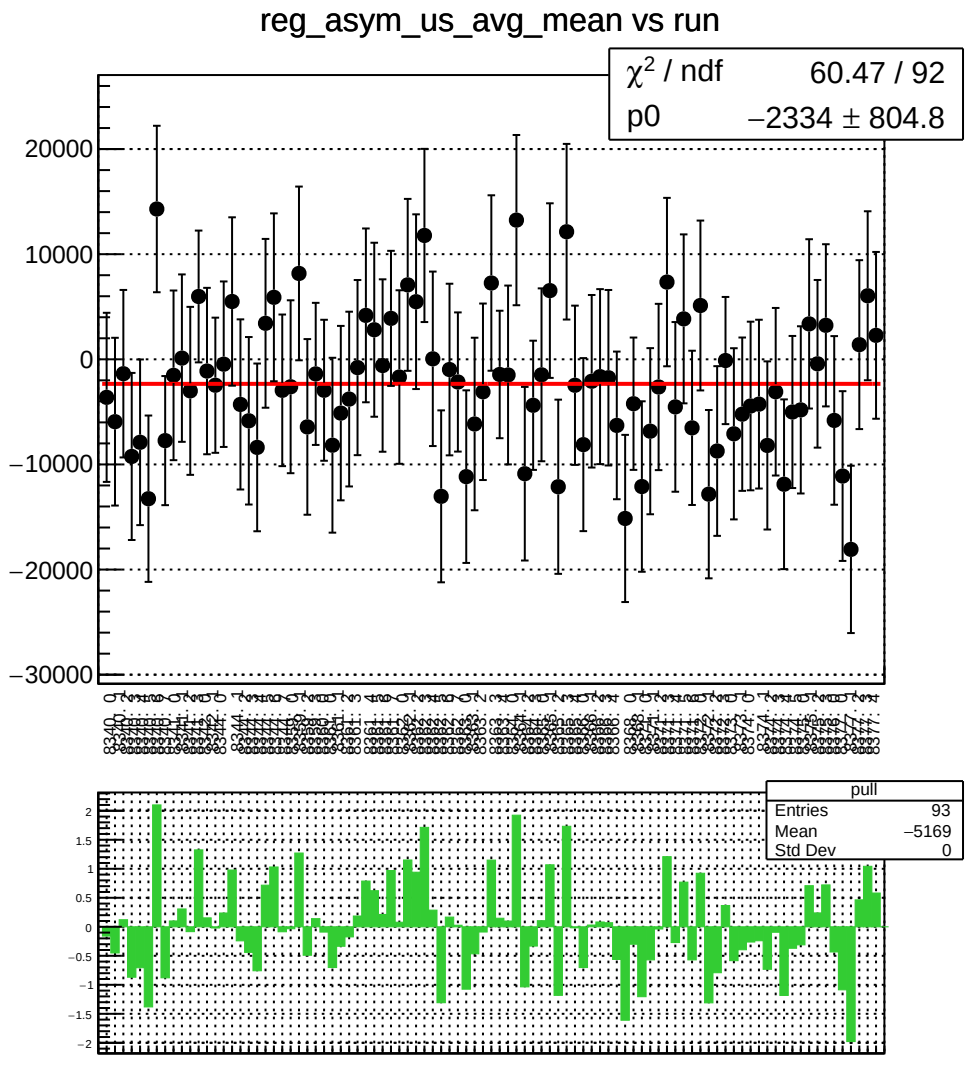
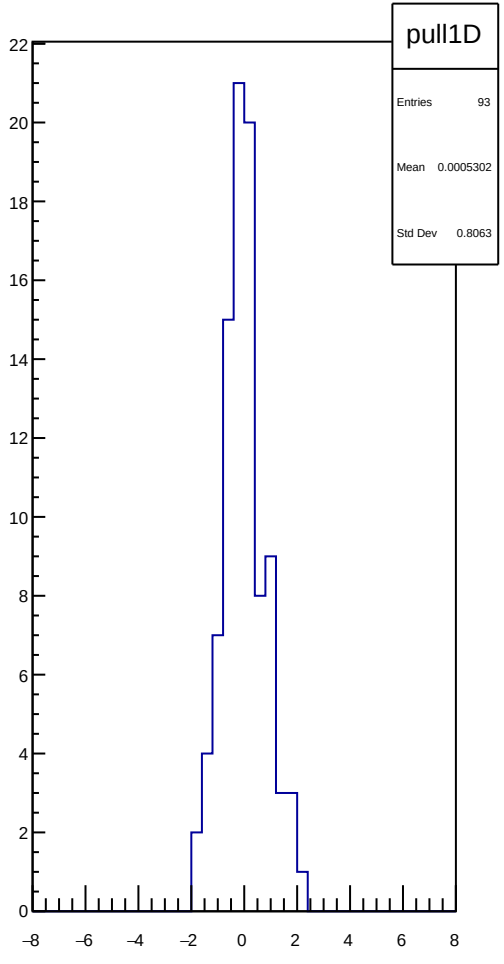
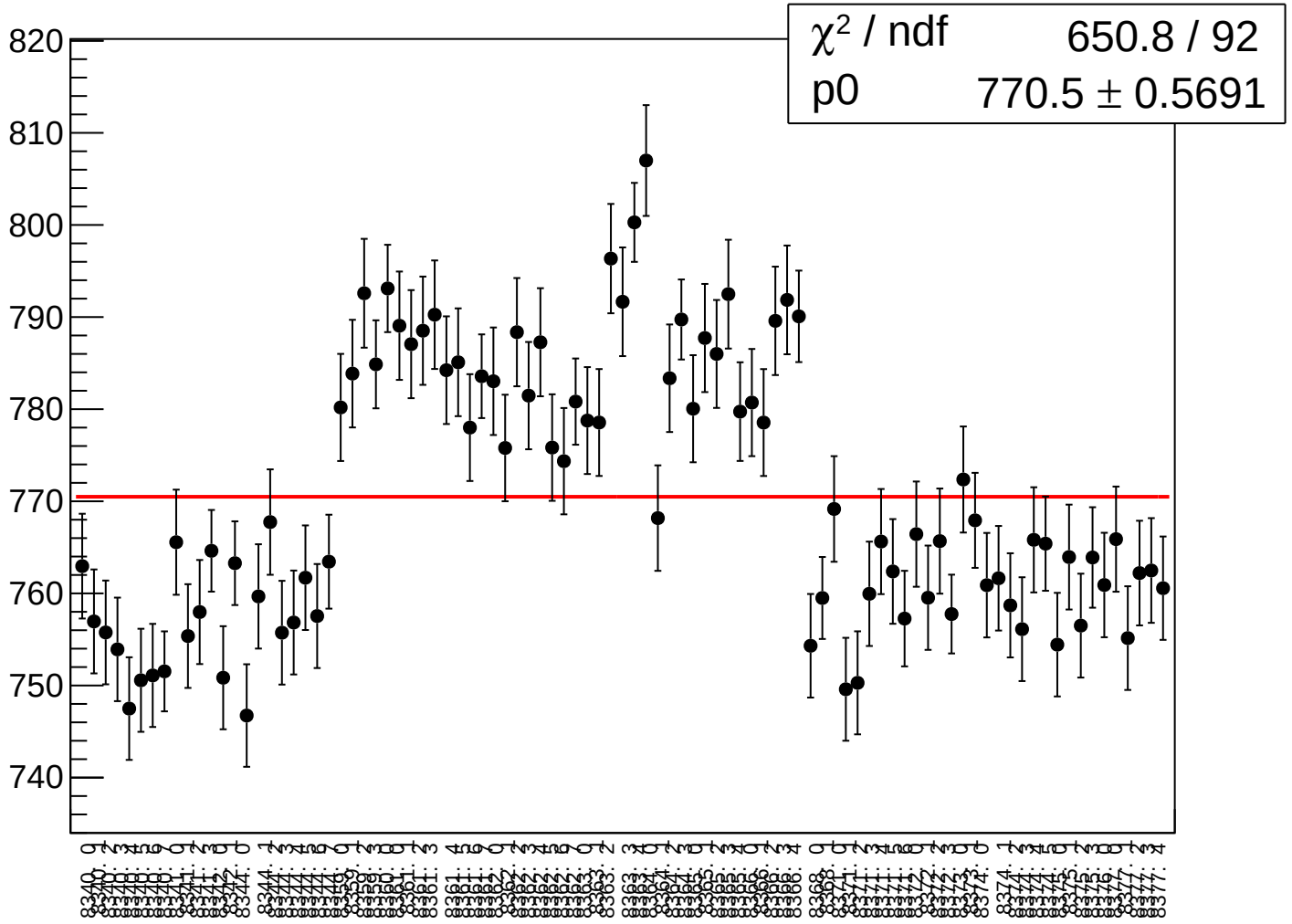
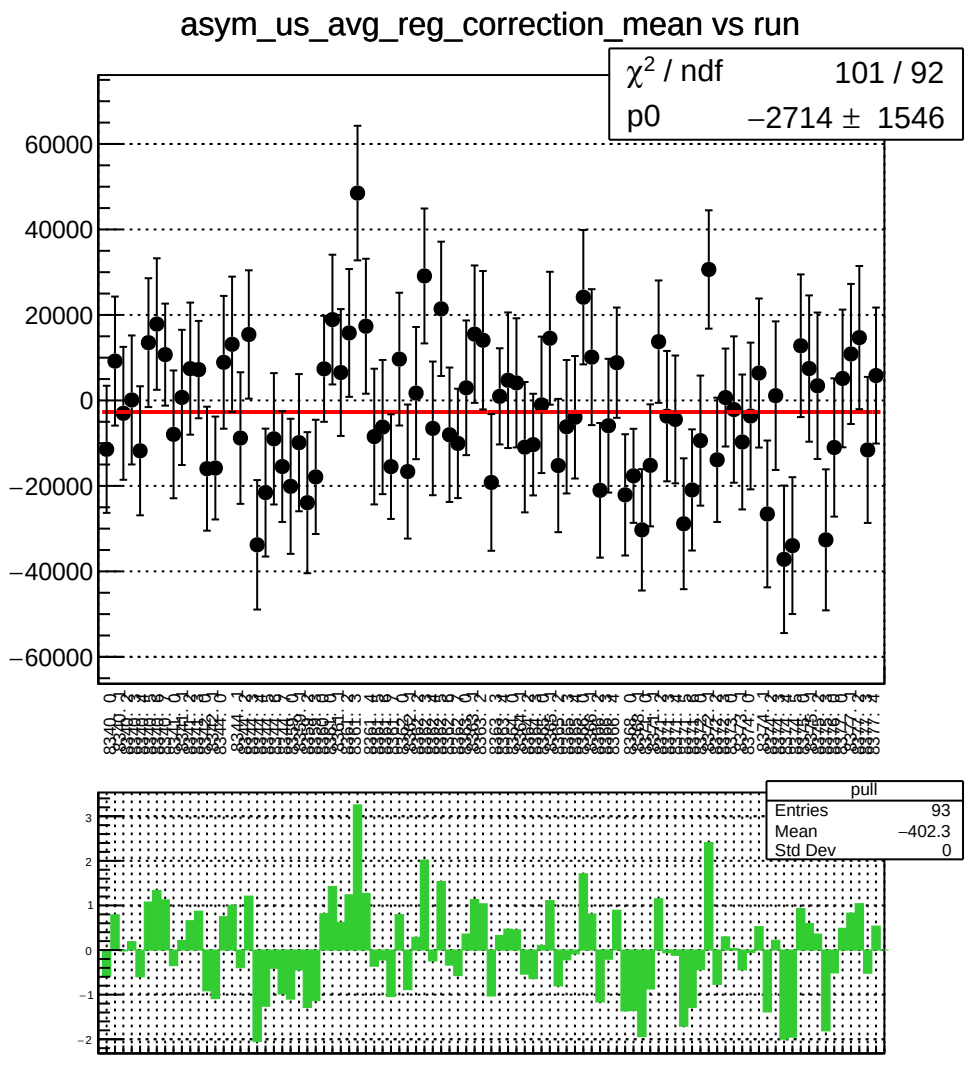
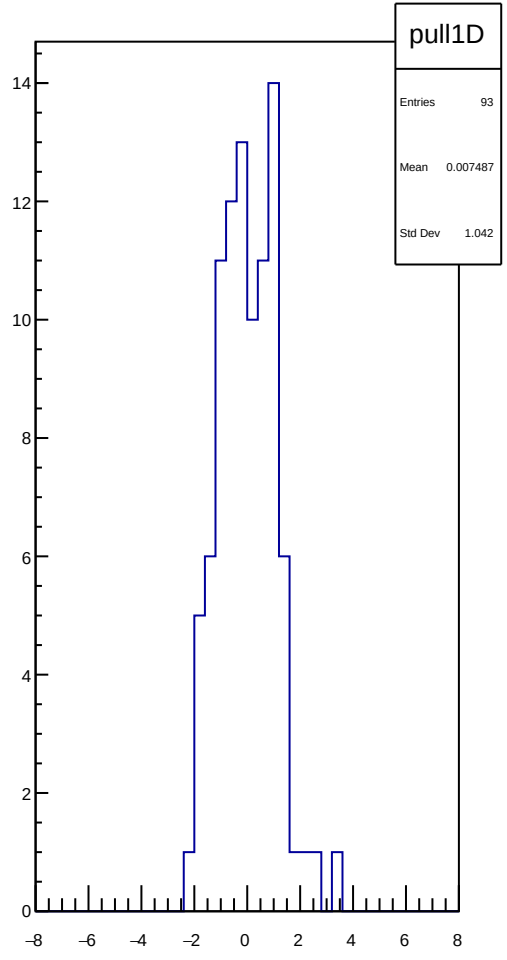
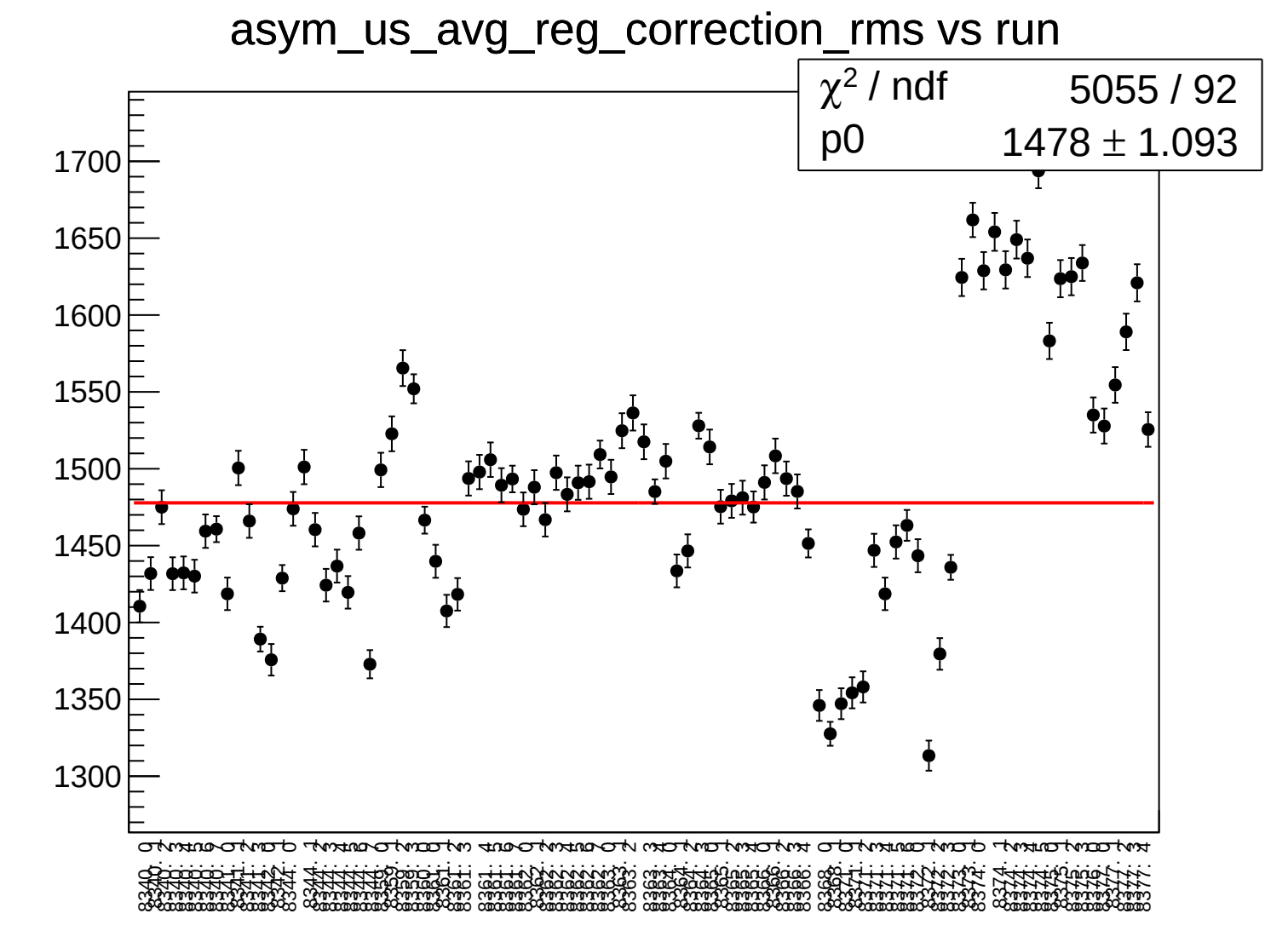

reg_asym_us_avg_mean vs run
χ² / ndf 60.47 / 92
p0 −2334 ± 804.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −5169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

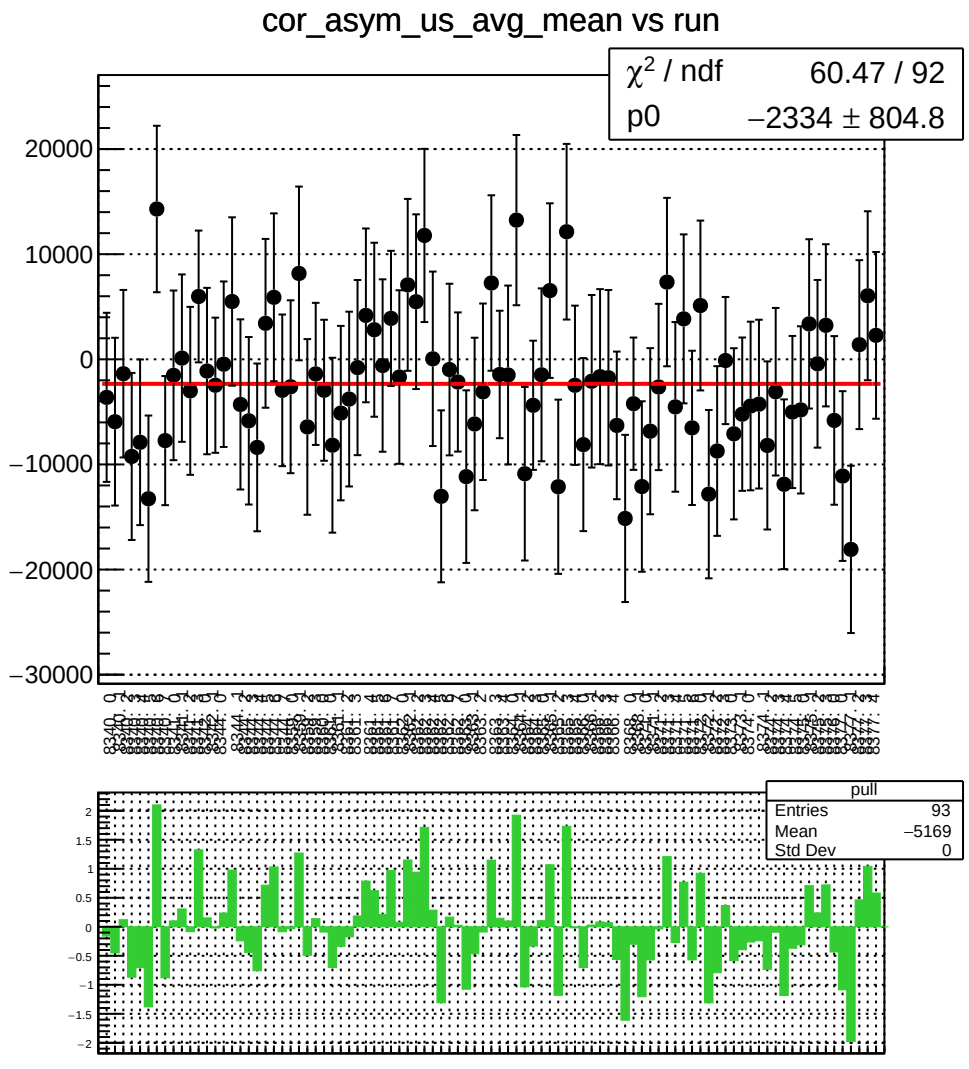

pull1D
Entries 93
Mean 0.0005302
Std Dev 0.8063
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

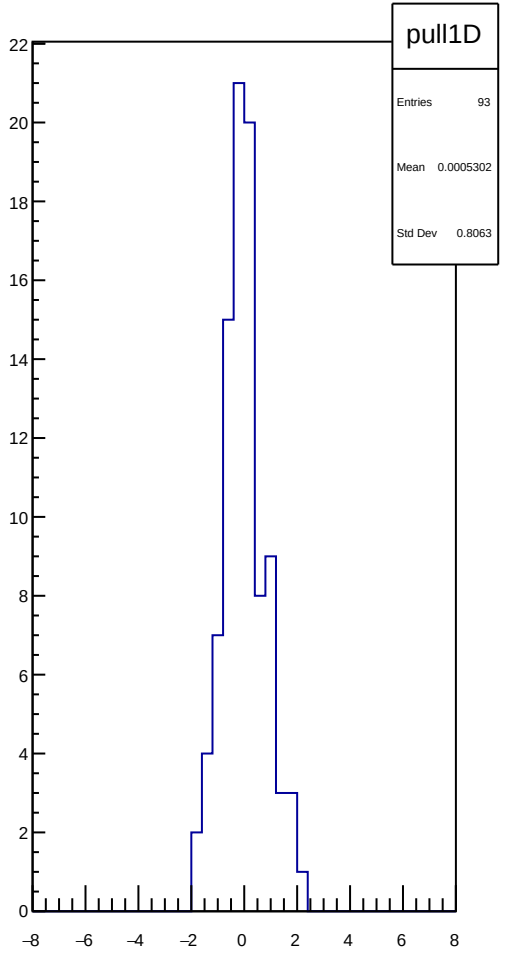

reg_asym_us_avg_rms vs run
χ² / ndf 650.8 / 92
p0 770.5 ± 0.5691
820
810
800
790
780
770
760
750
740


asym_us_avg_reg_correction_mean vs run
χ² / ndf 101 / 92
p0 −2714 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −402.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.007487
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 5055 / 92
p0 1478 ± 1.093
1700
1650
1600
1550
1500
1450
1400
1350
1300


cor_asym_us_avg_mean vs run
χ² / ndf 60.47 / 92
p0 −2334 ± 804.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −5169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.0005302
Std Dev 0.8063
22
20
18
16
14
12
10
8
6
4
2
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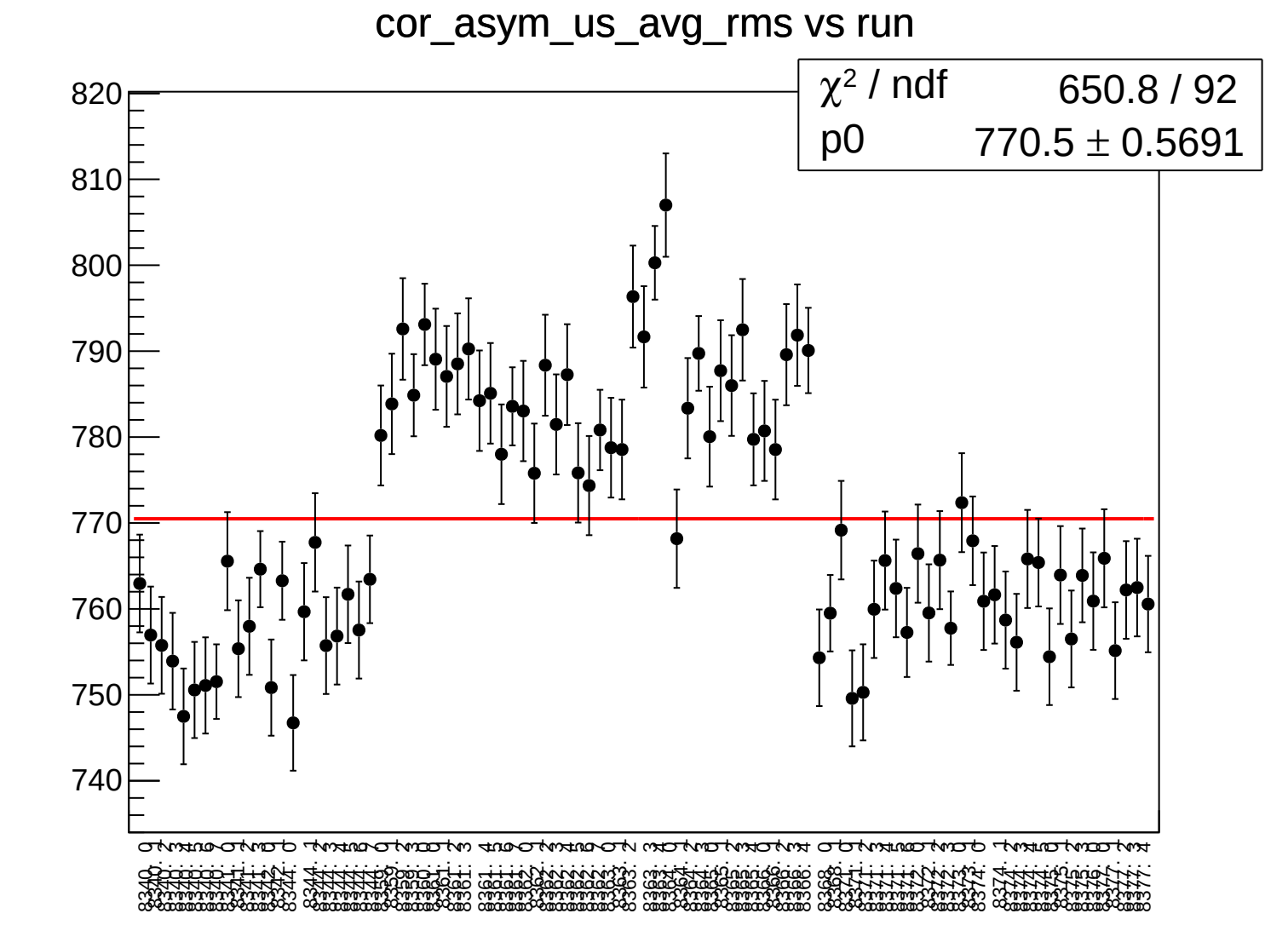
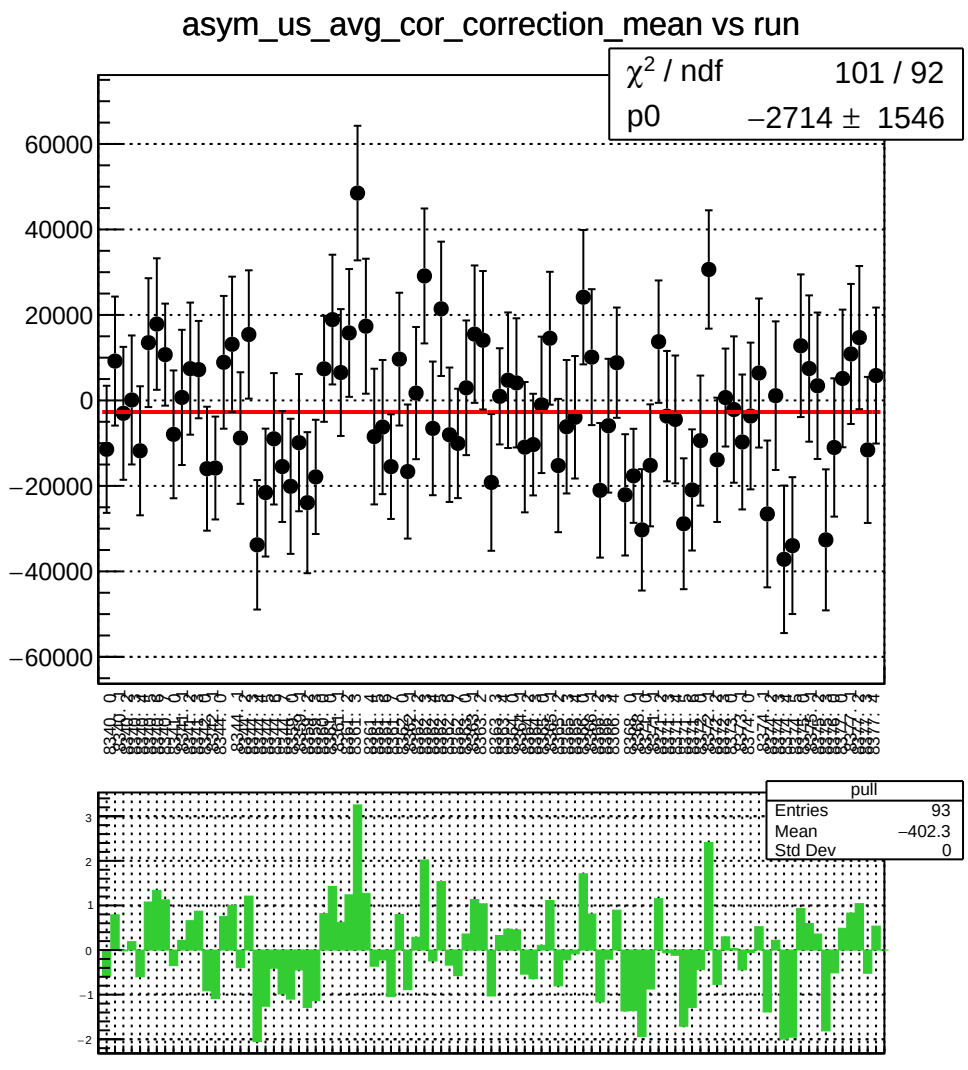
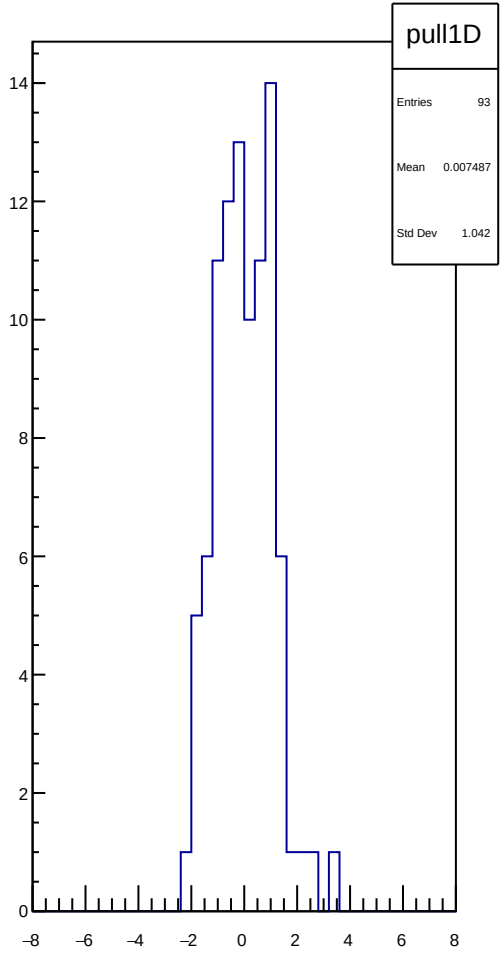
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 650.8 / 92
p0 770.5 ± 0.5691
820
810
800
790
780
770
760
750
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 101 / 92
p0 −2714 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −402.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.007487
Std Dev 1.042
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12
10
8
6
4
2
0
−8
−6
−4
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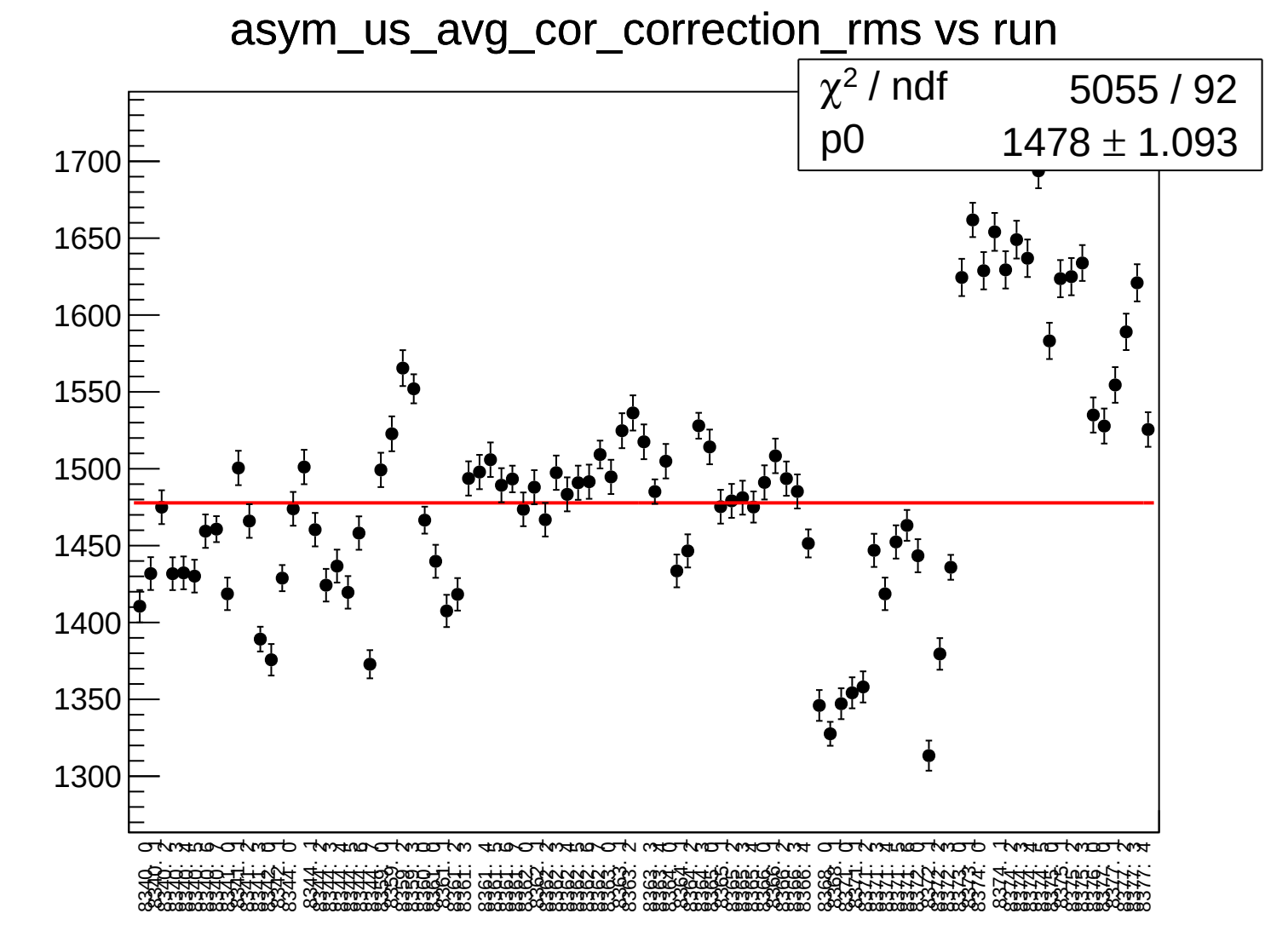
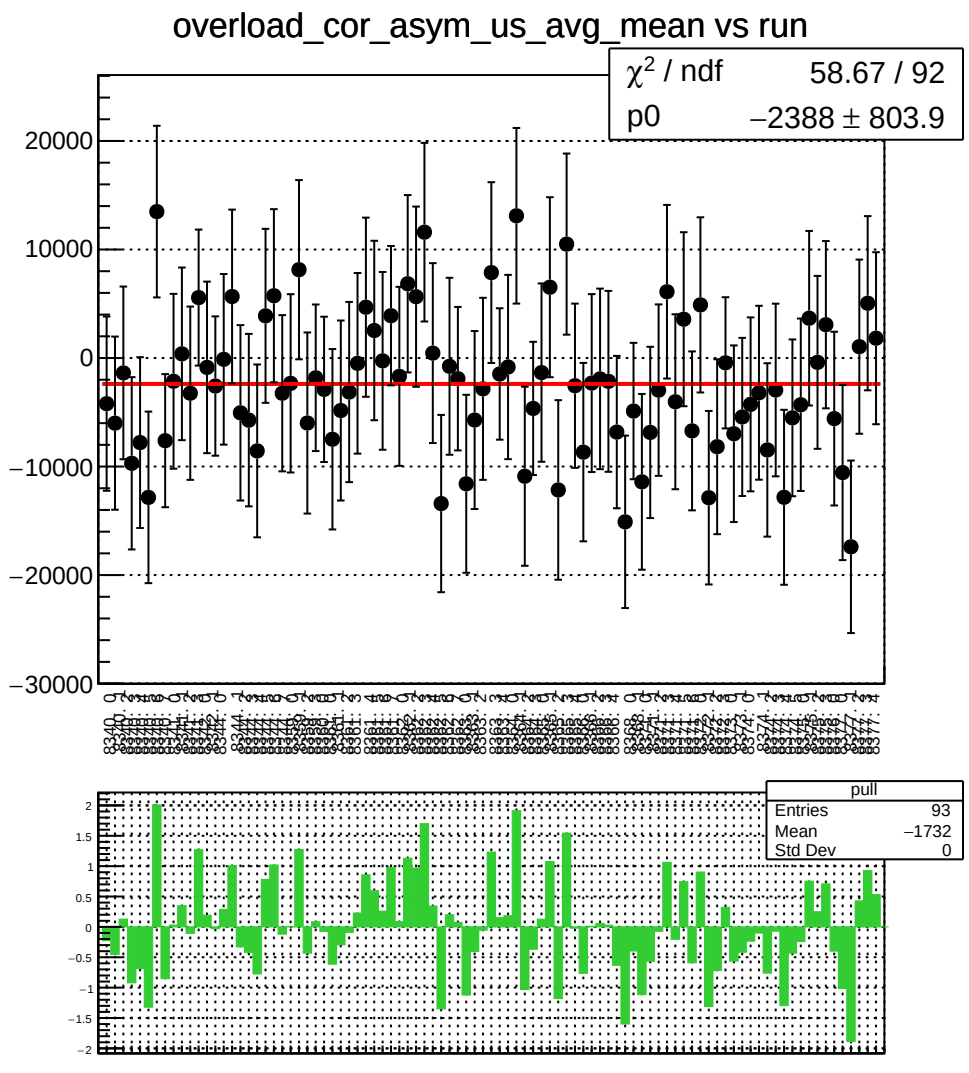
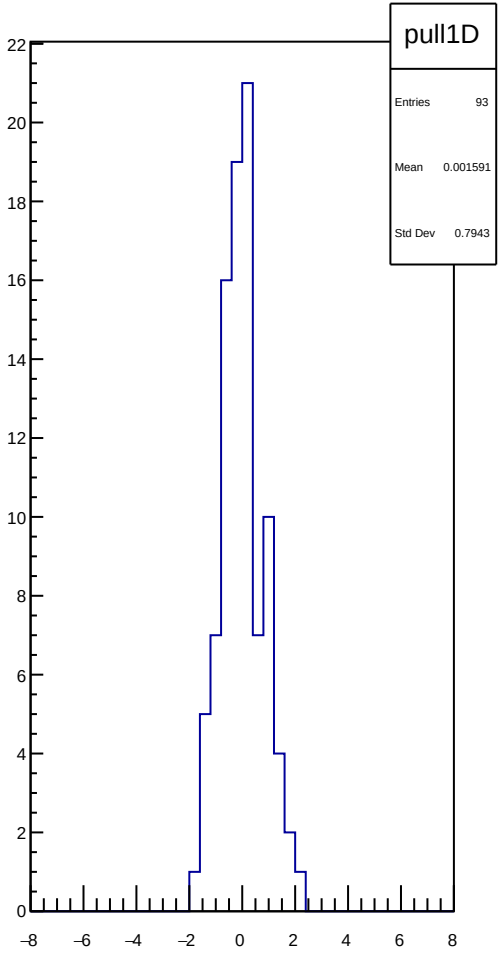
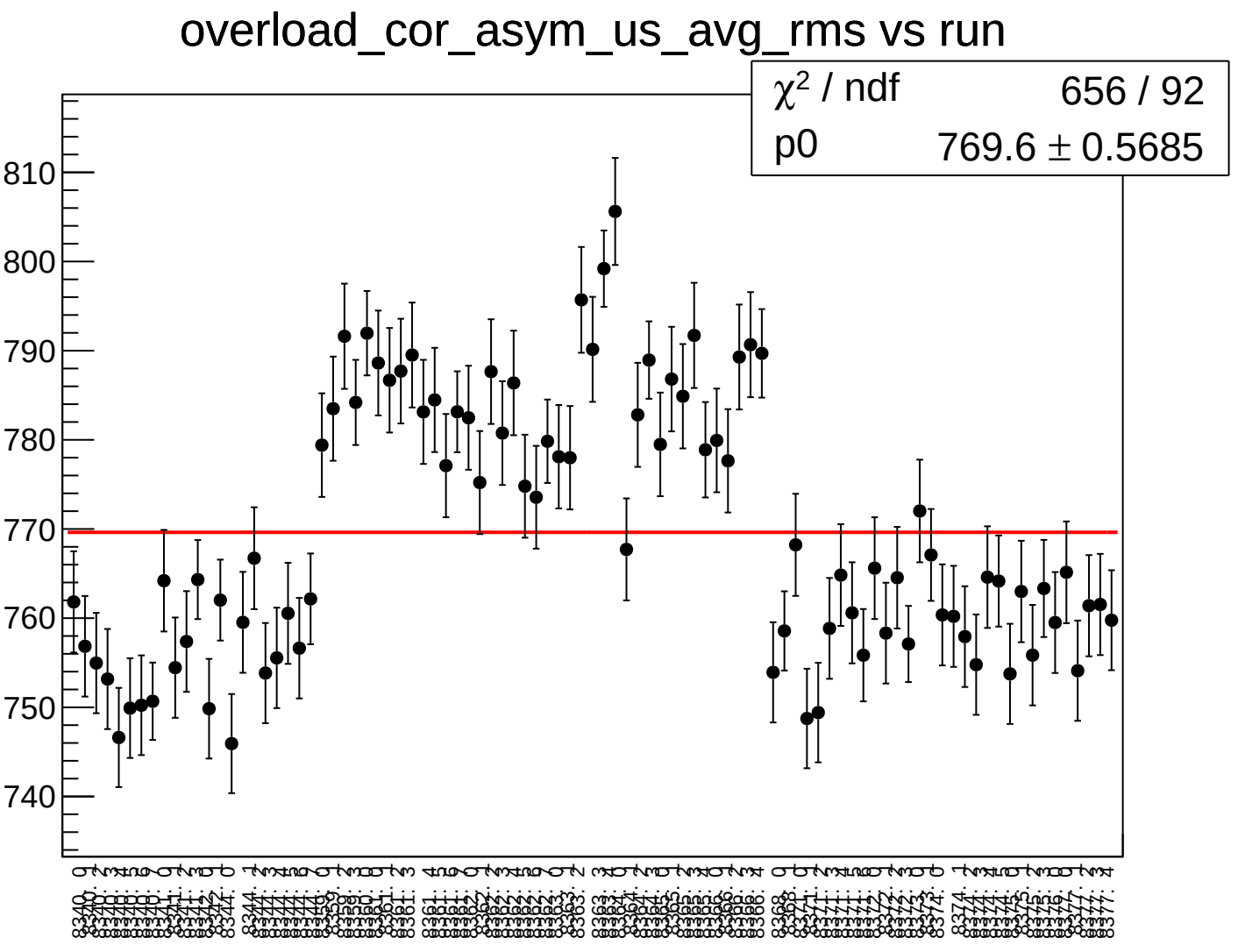
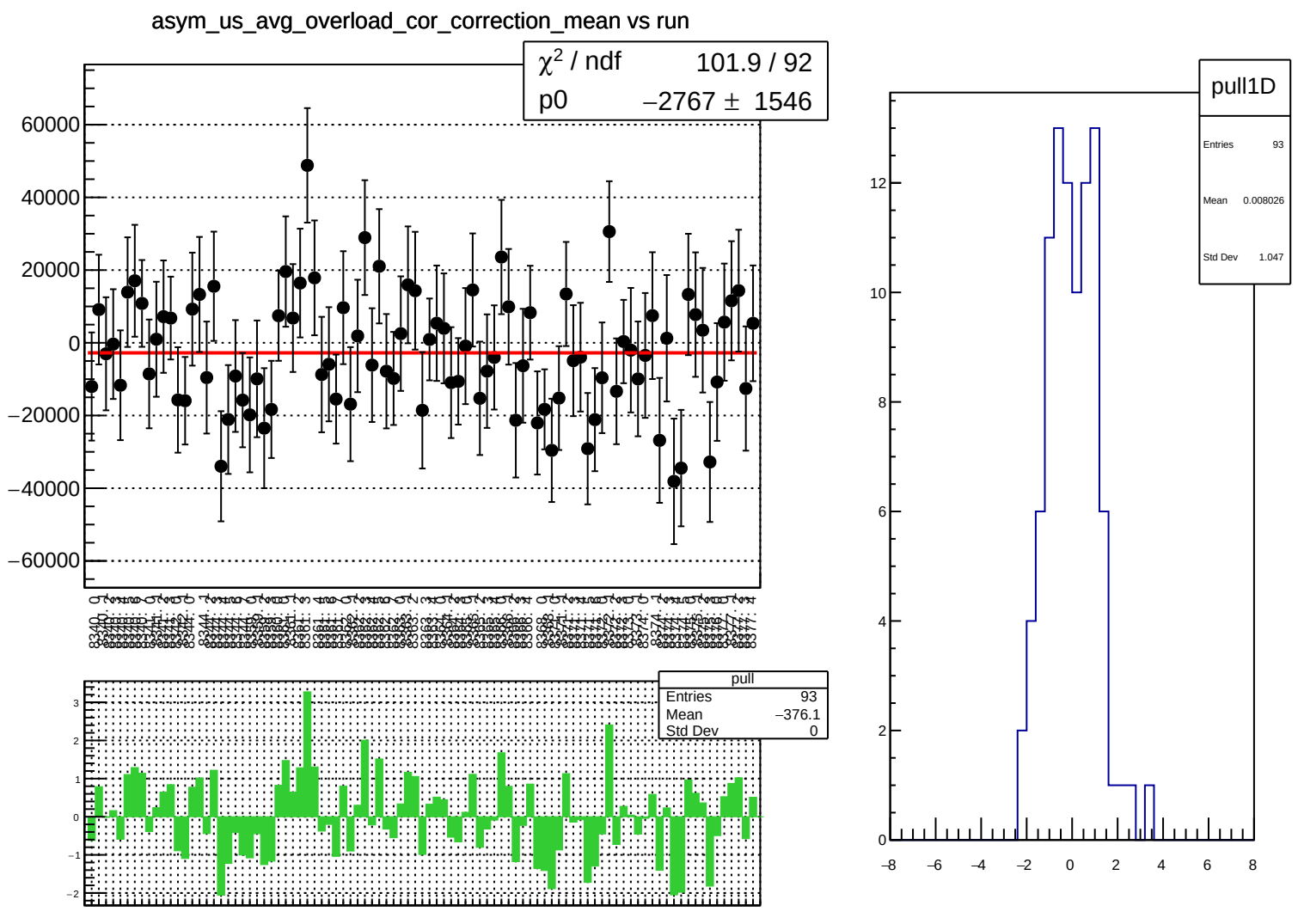
2
4
6
8

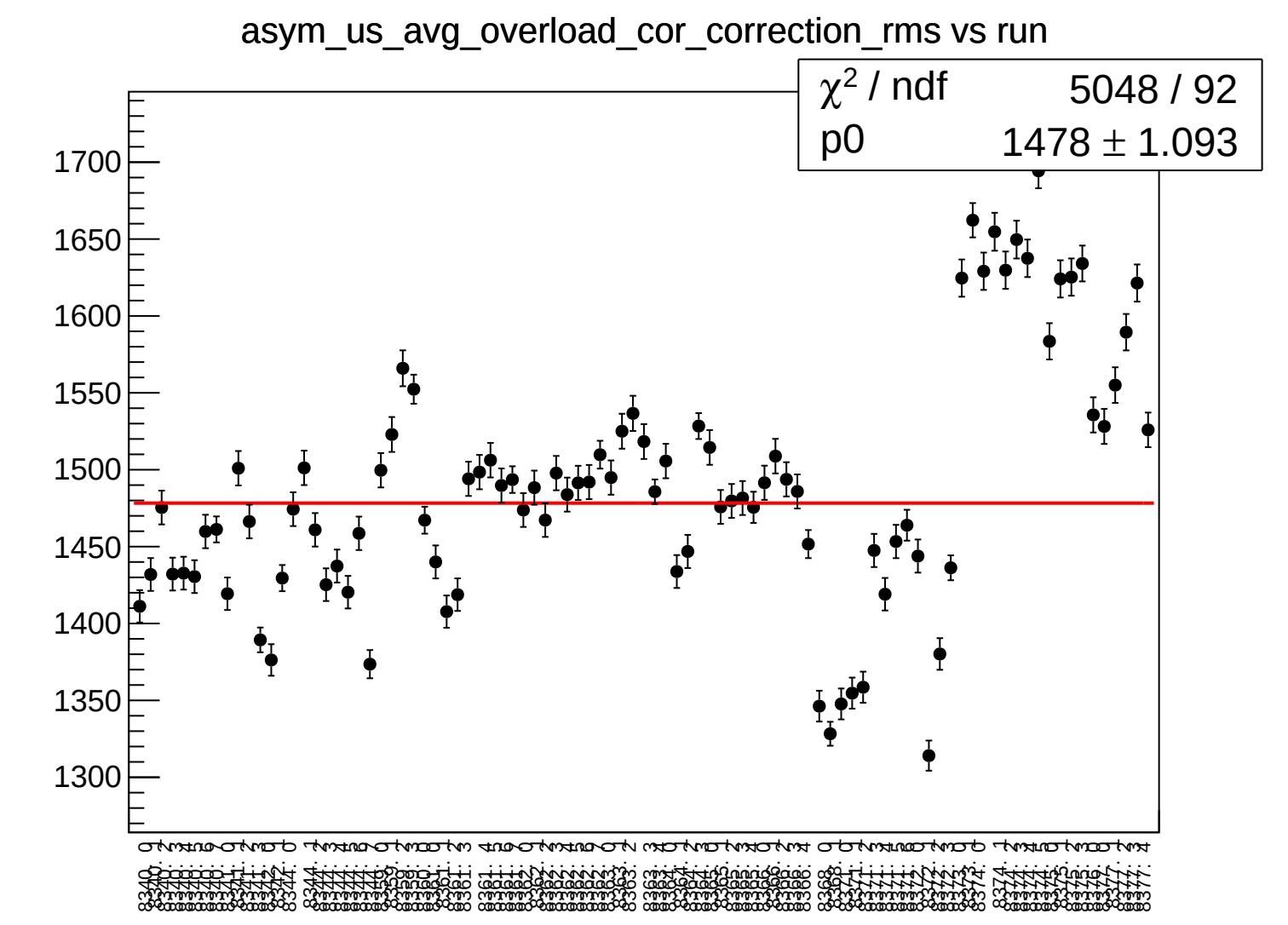

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5055 / 92
p0 1478 ± 1.093
1700
1650
1600
1550
1500
1450
1400
1350
1300

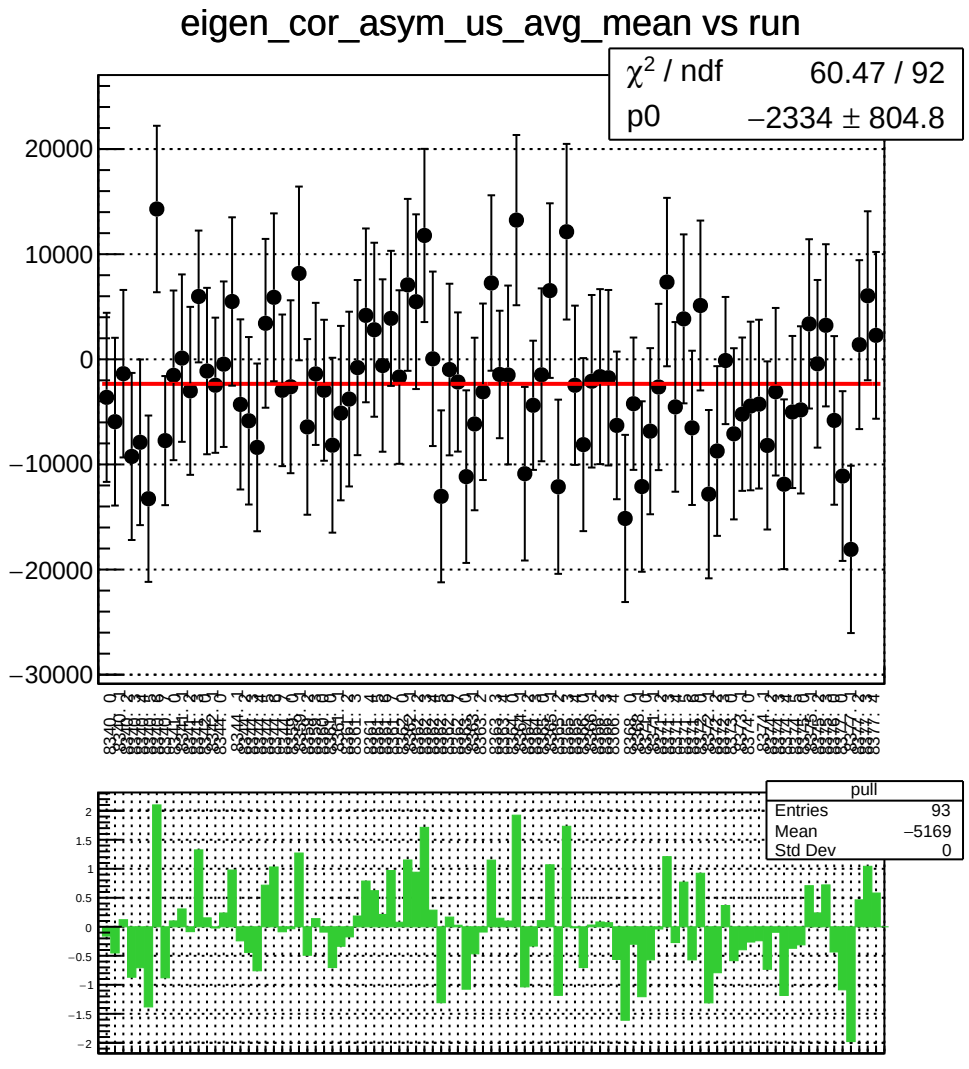

overload_cor_asym_us_avg_mean vs run
χ² / ndf 58.67 / 92
p0 −2388 ± 803.9
pull
Entries 93
Mean −1732
Std Dev 0

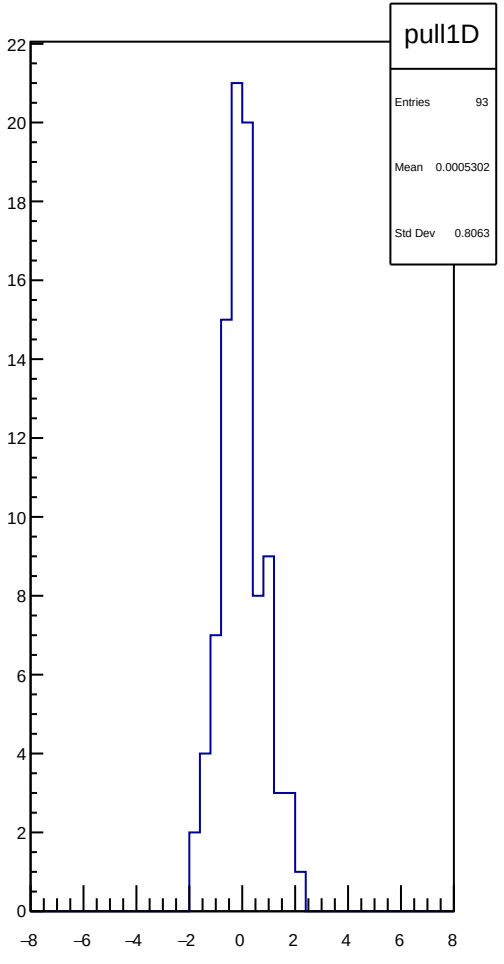

pull1D
Entries 93
Mean 0.001591
Std Dev 0.7943


overload_cor_asym_us_avg_rms vs run
χ² / ndf 656 / 92
p0 769.6 ± 0.5685
810
800
790
780
770
760
750
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 101.9 / 92
p0 −2767 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −376.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008026
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5048 / 92
p0 1478 ± 1.093
1700
1650
1600
1550
1500
1450
1400
1350
1300


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 60.47 / 92
p0 −2334 ± 804.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −5169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.0005302
Std Dev 0.8063
22
20
18
16
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10
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6
4
2
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−4
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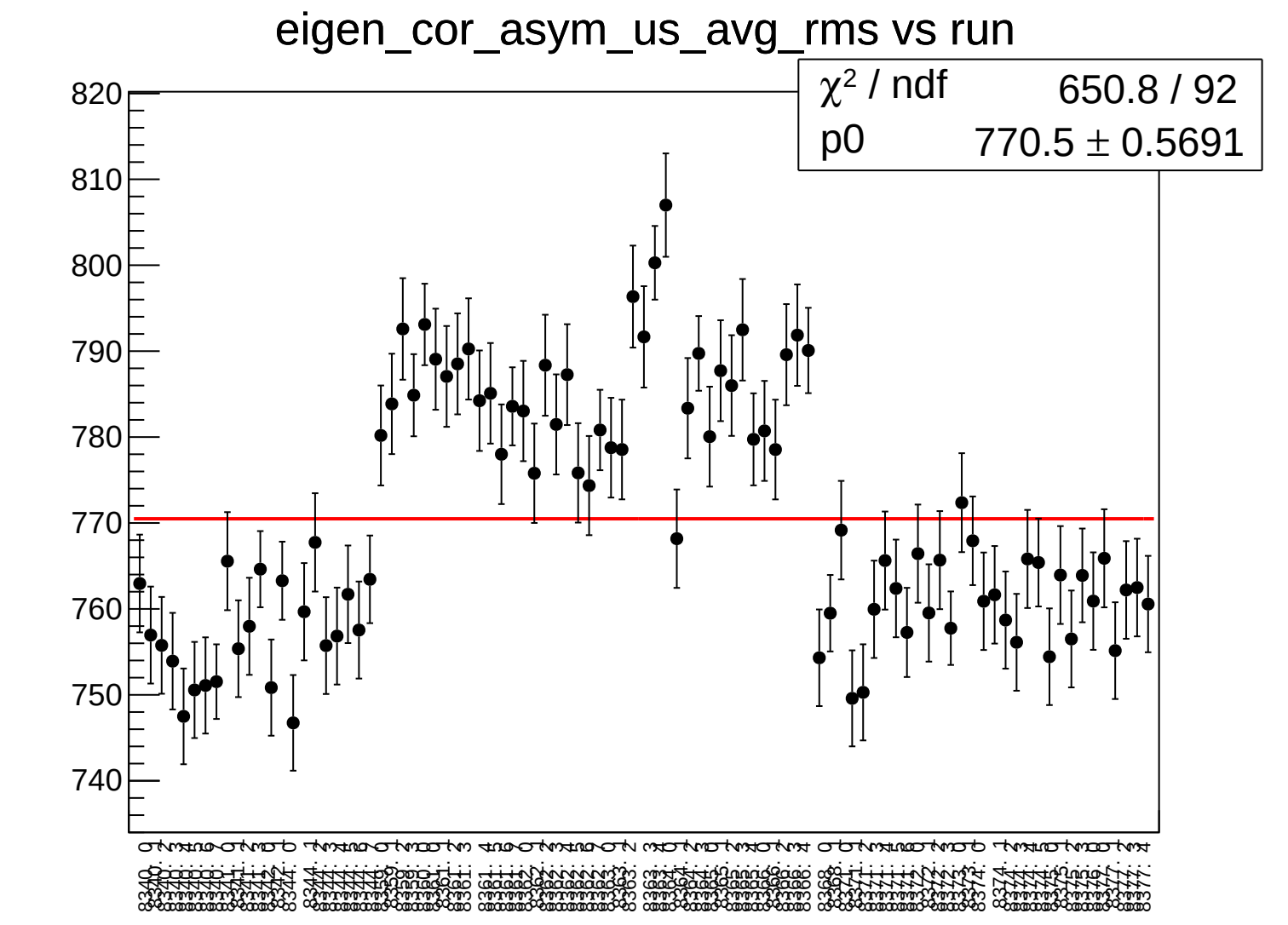
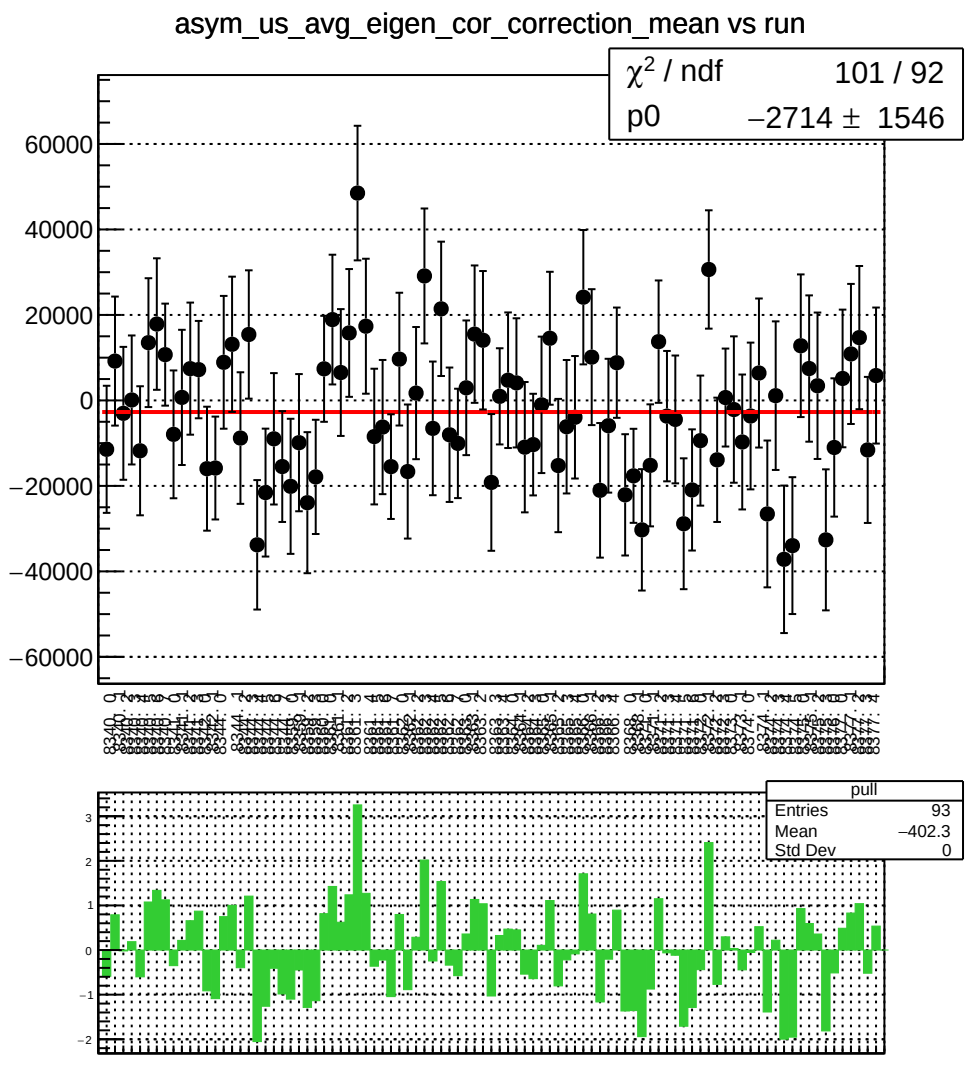
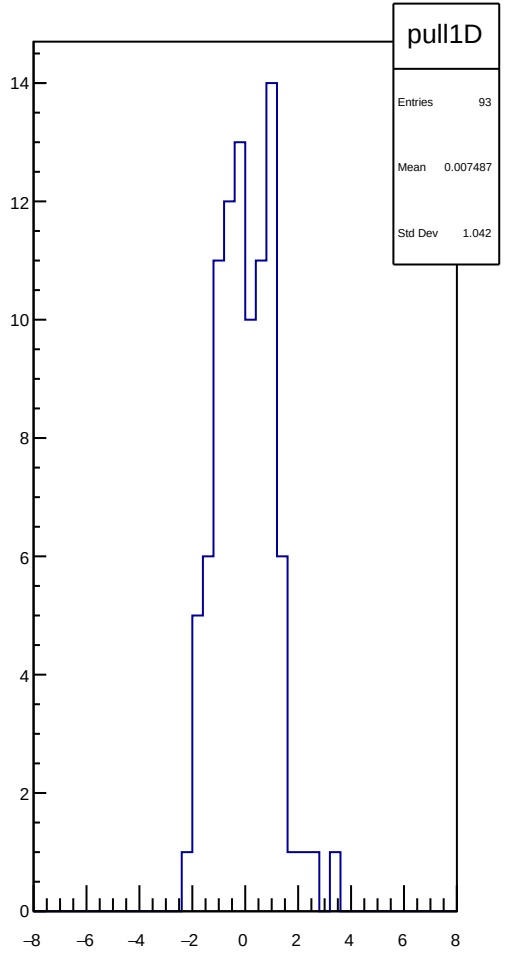
2
4
6
8


eigen_cor_asym_us_avg_rms vs run
χ² / ndf 650.8 / 92
p0 770.5 ± 0.5691
820
810
800
790
780
770
760
750
740


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 101 / 92
p0 −2714 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −402.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.007487
Std Dev 1.042
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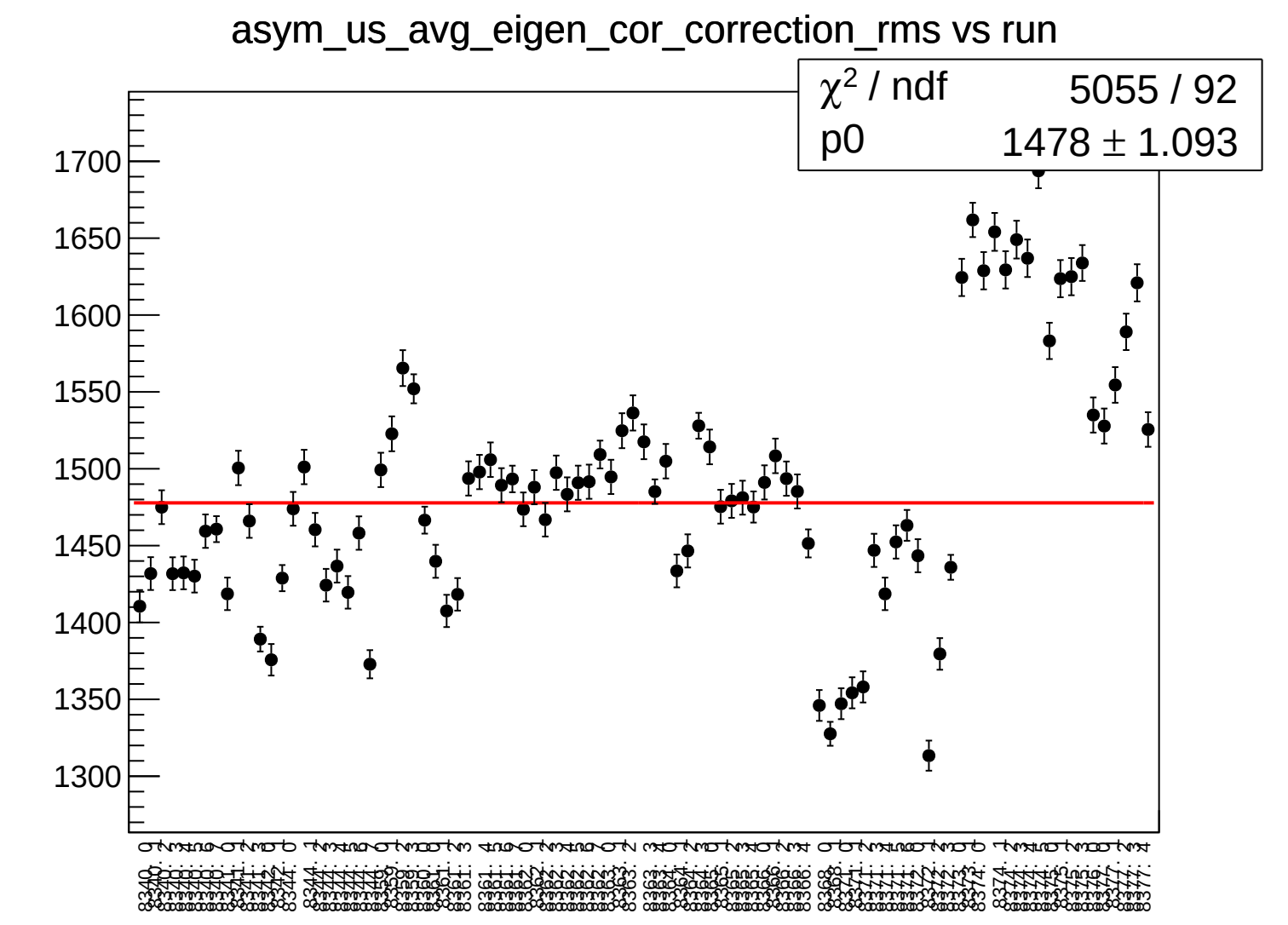
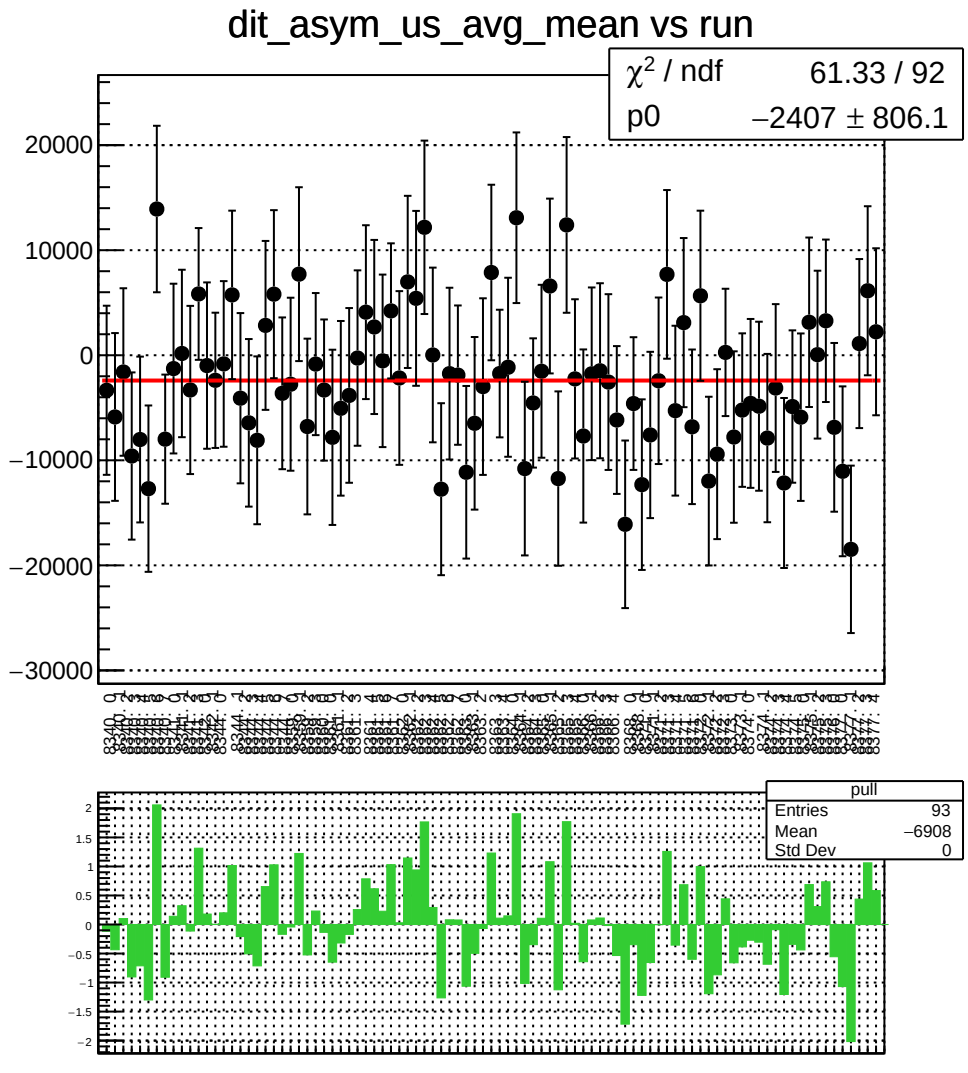
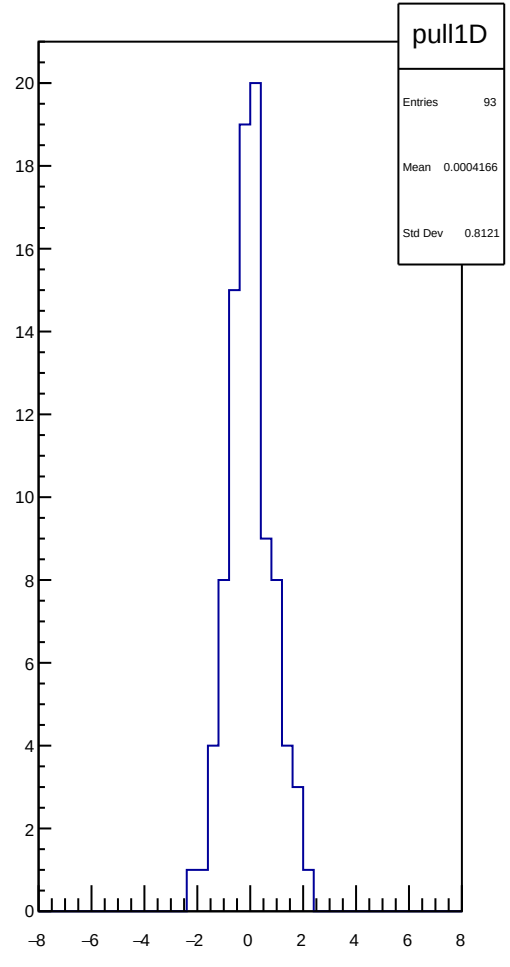
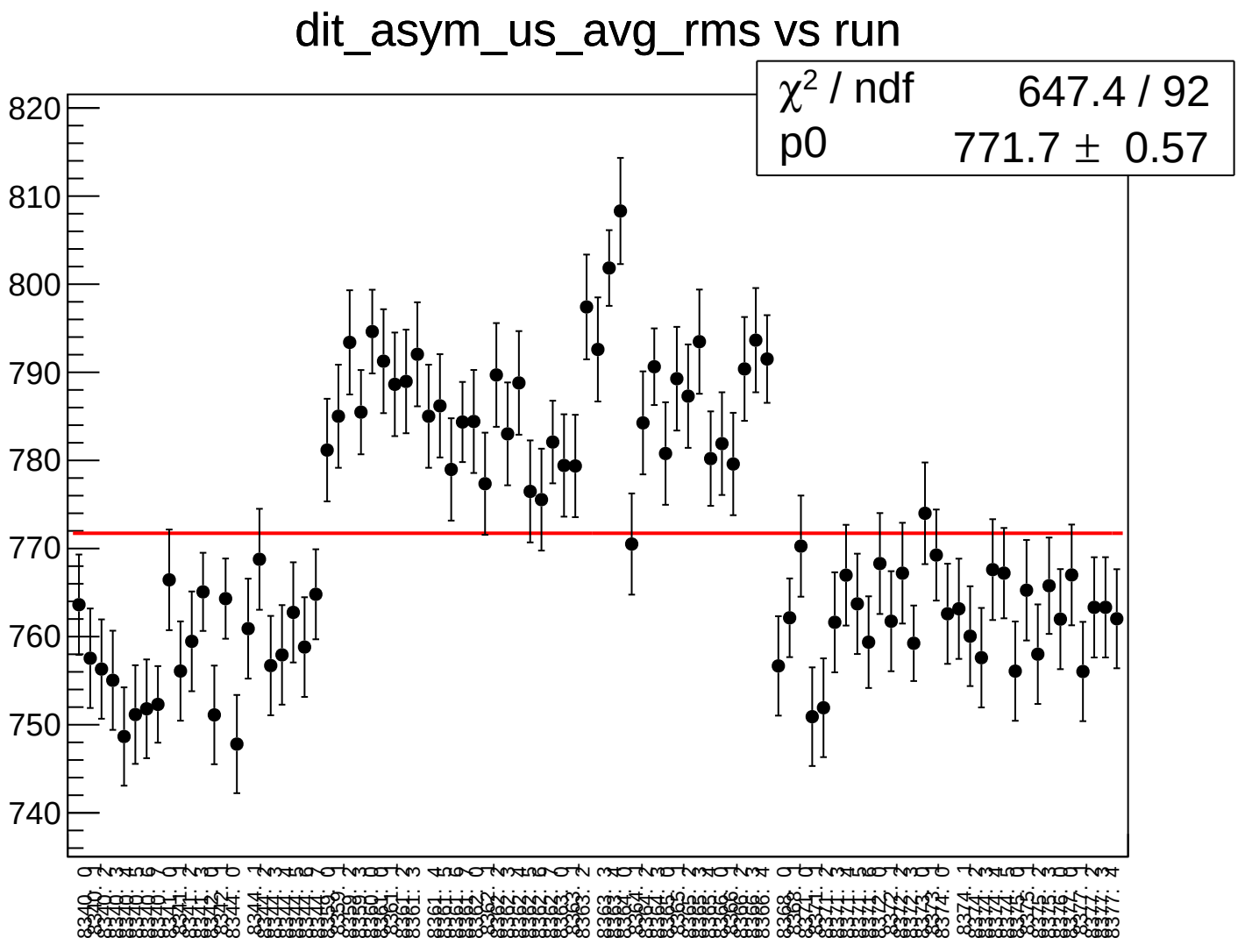
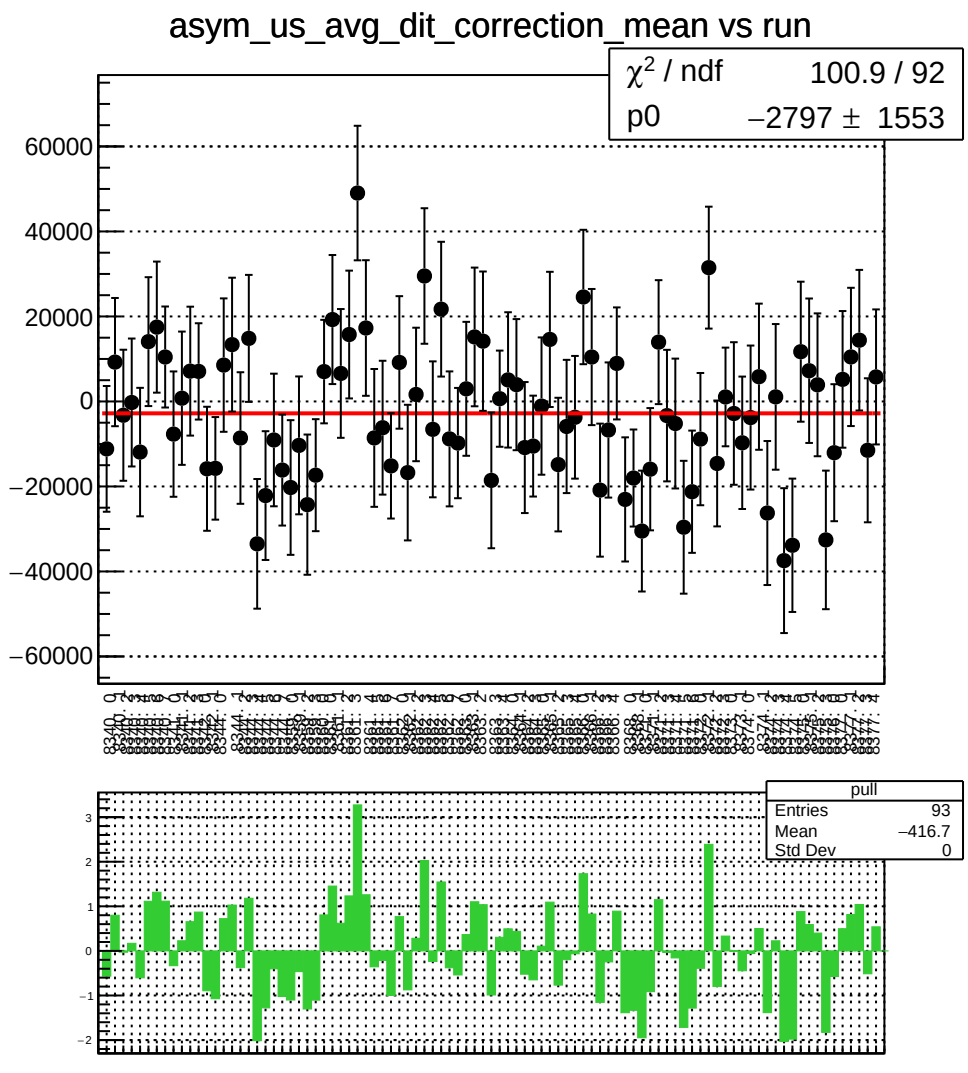
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

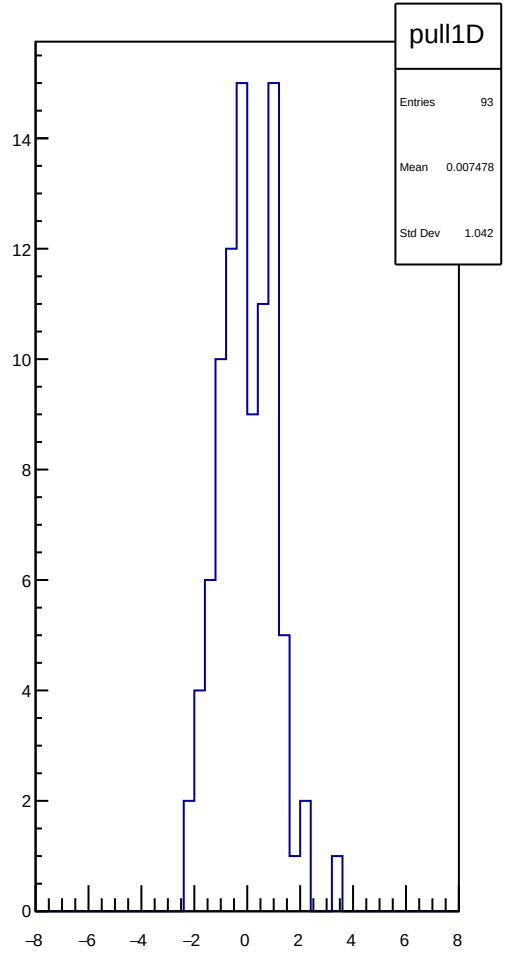

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5055 / 92
p0 1478 ± 1.093
1700
1650
1600
1550
1500
1450
1400
1350
1300

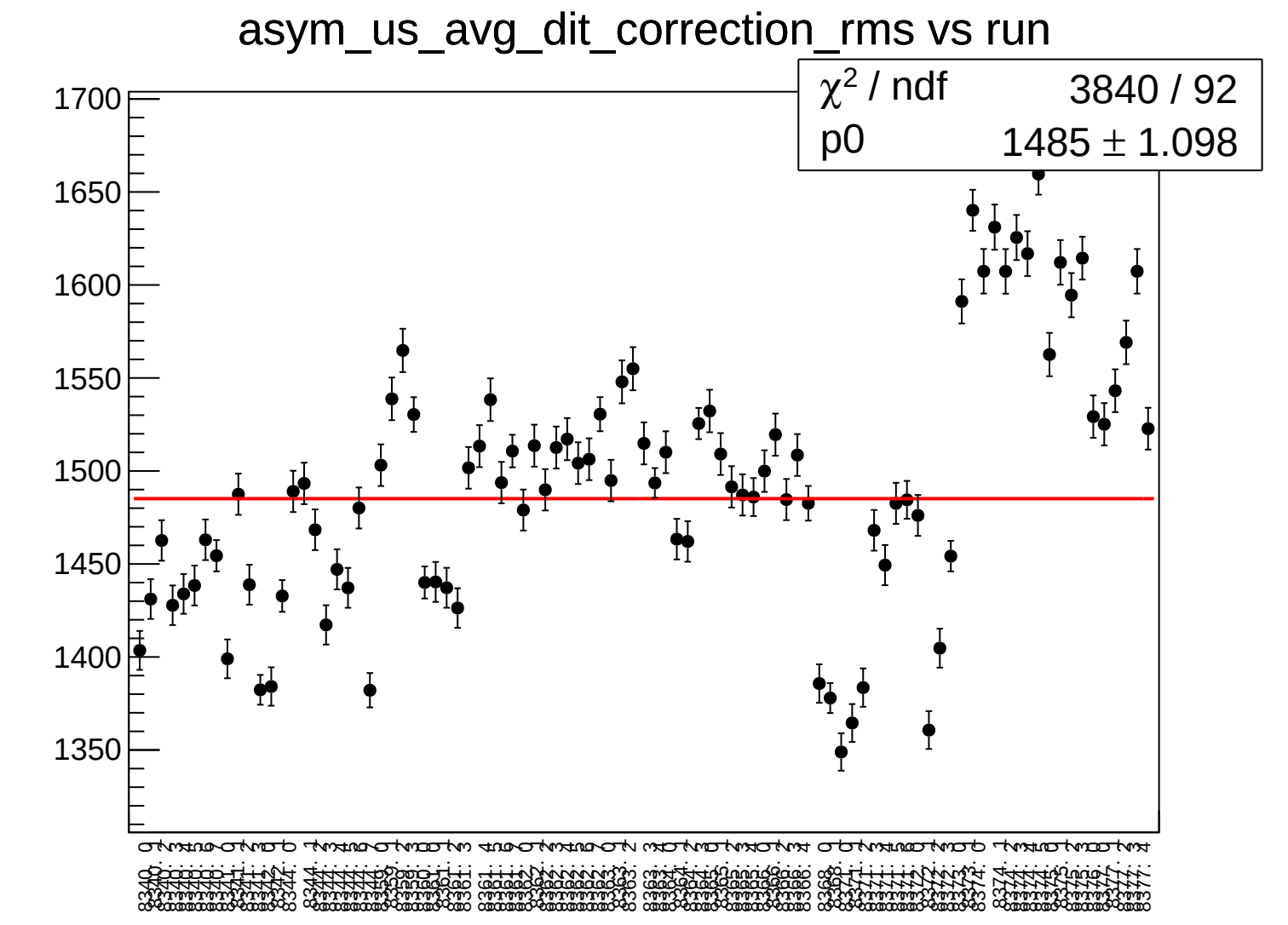

dit_asym_us_avg_mean vs run
χ² / ndf 61.33 / 92
p0 −2407 ± 806.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −6908
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

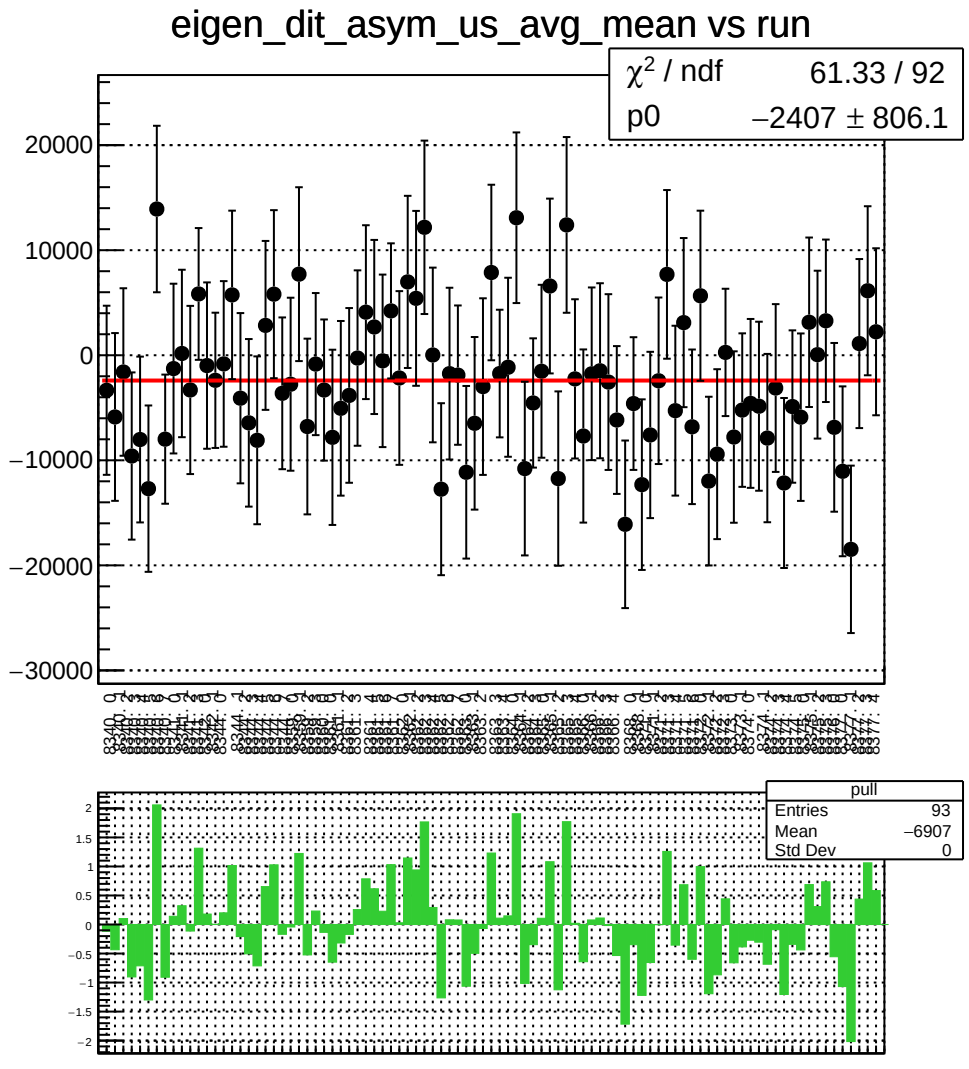

pull1D
Entries 93
Mean 0.0004166
Std Dev 0.8121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

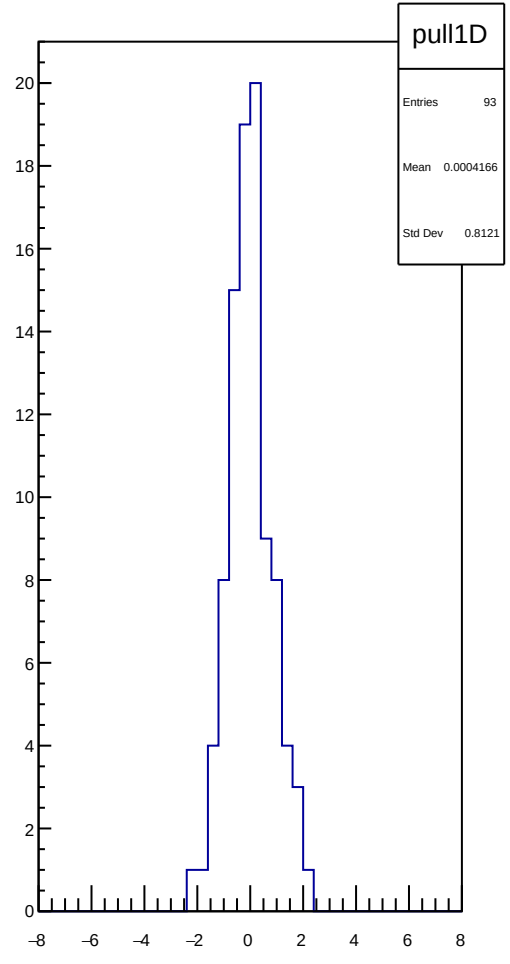

dit_asym_us_avg_rms vs run
χ² / ndf 647.4 / 92
p0 771.7 ± 0.57
820
810
800
790
780
770
760
750
740

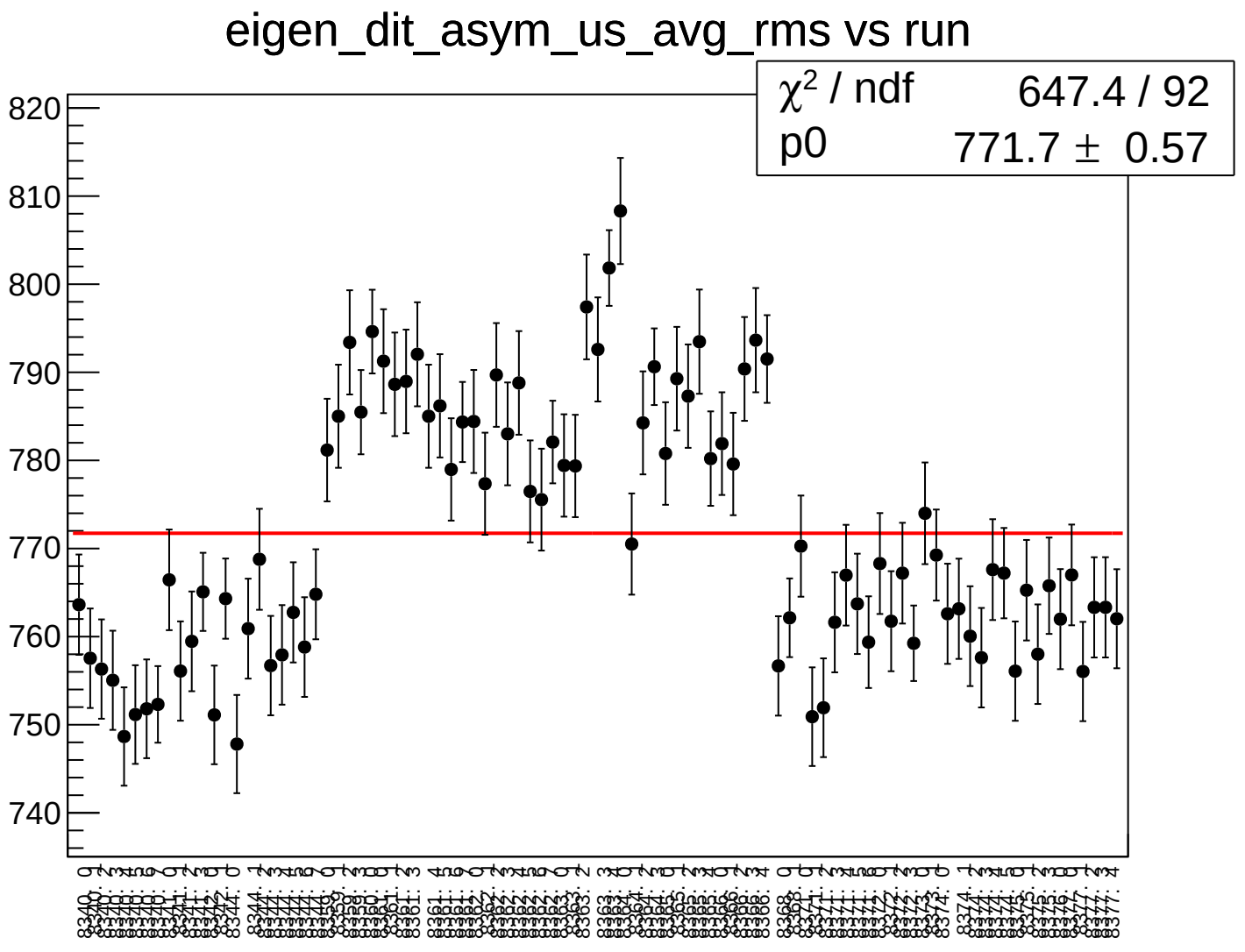

asym_us_avg_dit_correction_mean vs run
χ² / ndf 100.9 / 92
p0 −2797 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −416.7
Std Dev 0
3
2
1
0
−1
−2

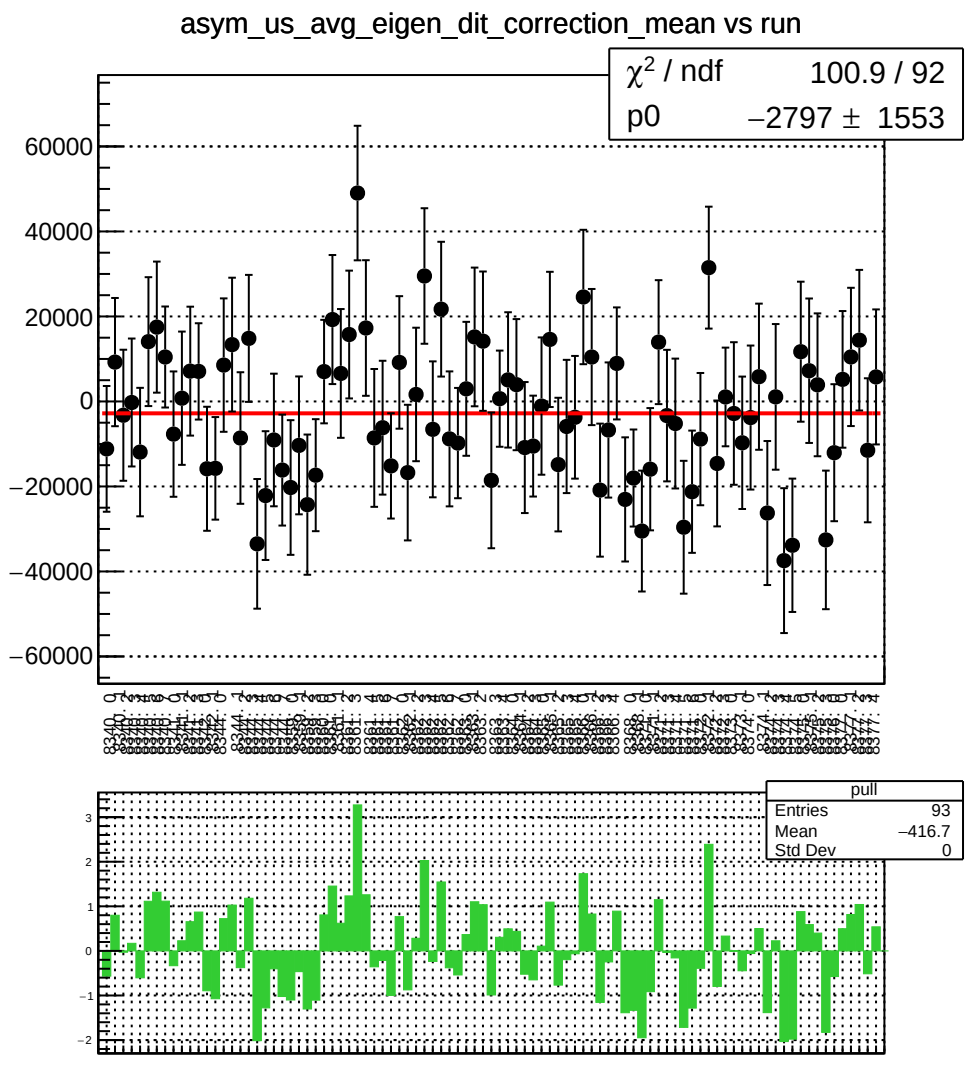

pull1D
Entries 93
Mean 0.007478
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

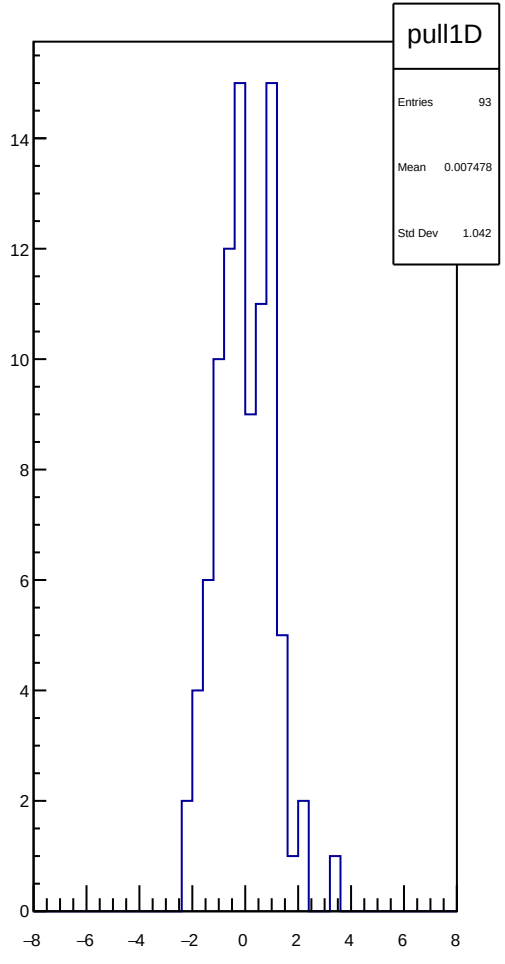

asym_us_avg_dit_correction_rms vs run
χ² / ndf 3840 / 92
p0 1485 ± 1.098
1700
1650
1600
1550
1500
1450
1400
1350

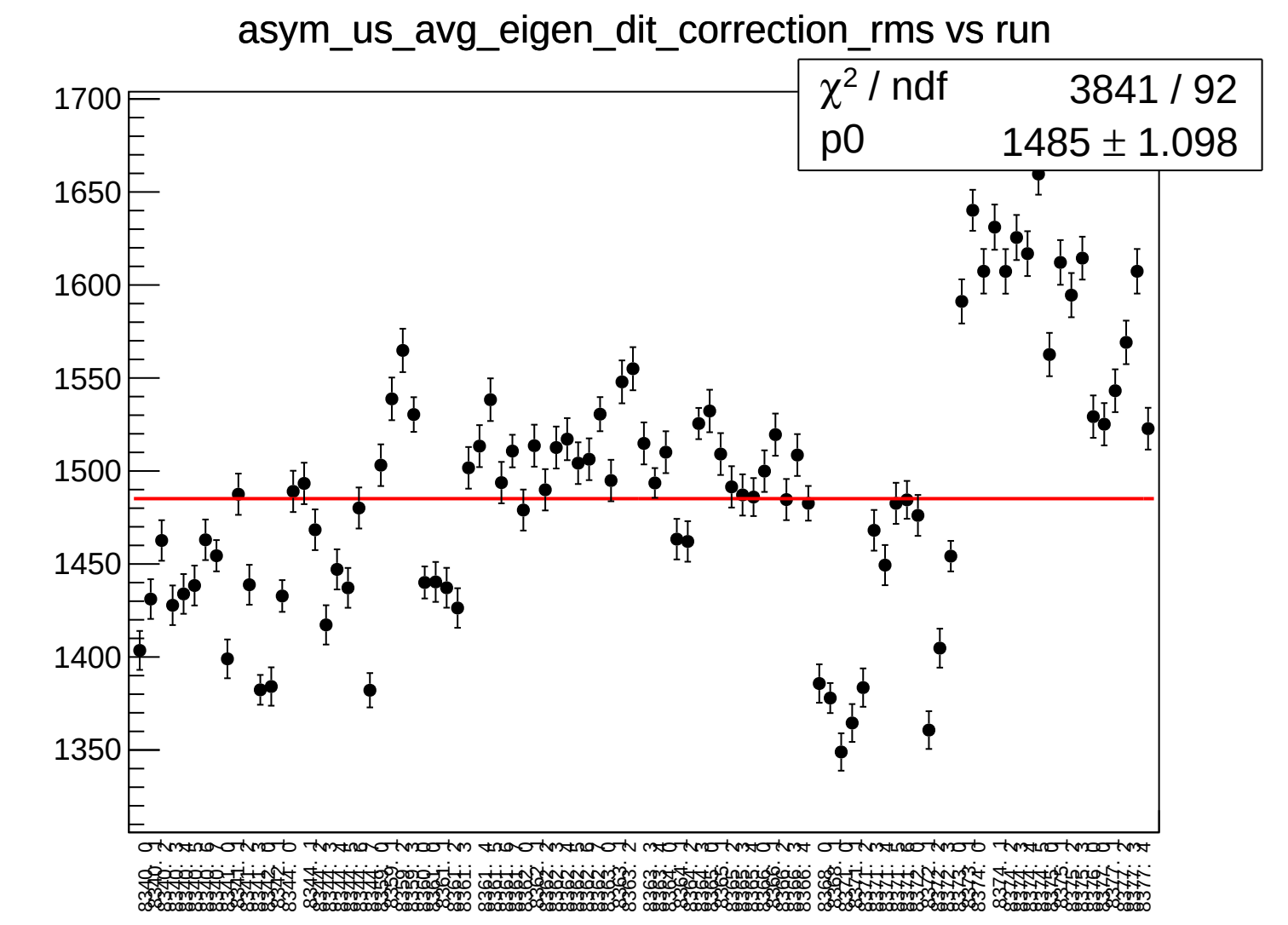

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 61.33 / 92
p0 −2407 ± 806.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −6907
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

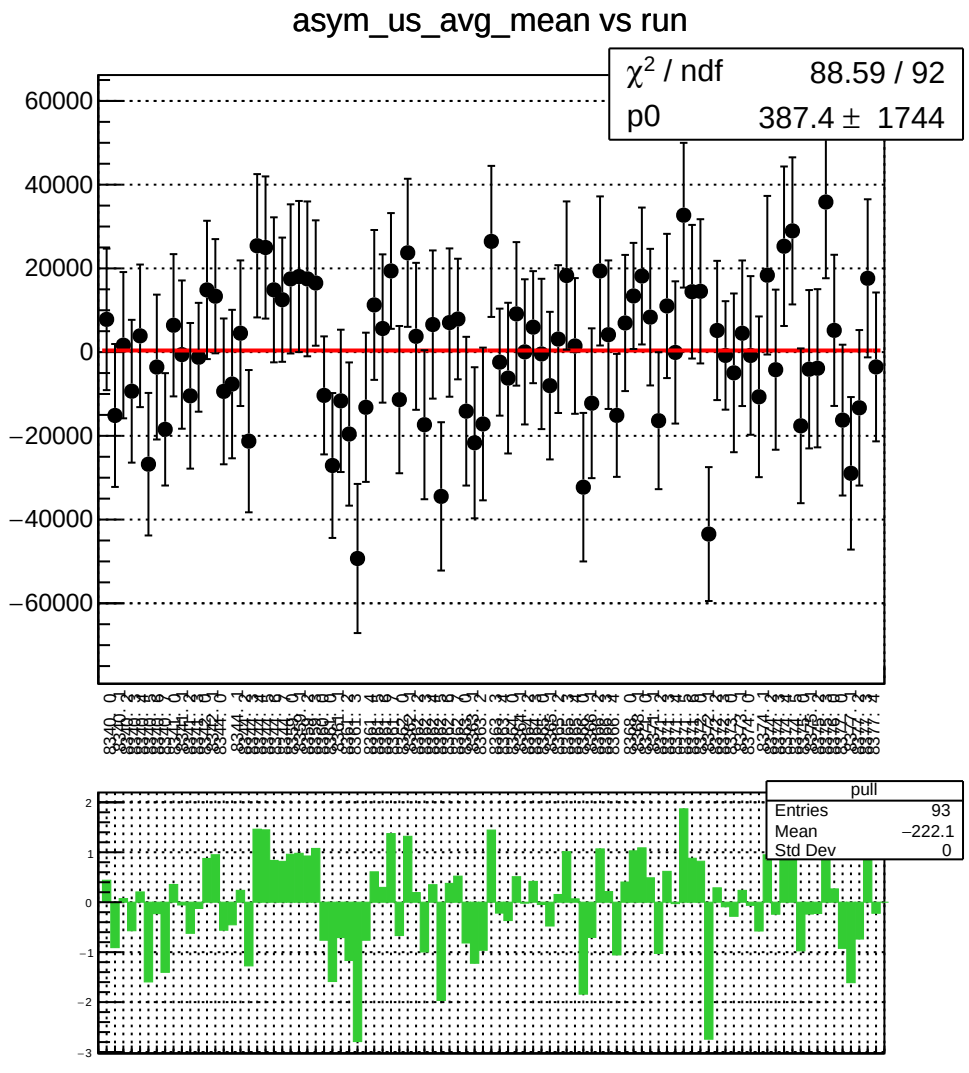

pull1D
Entries 93
Mean 0.0004166
Std Dev 0.8121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

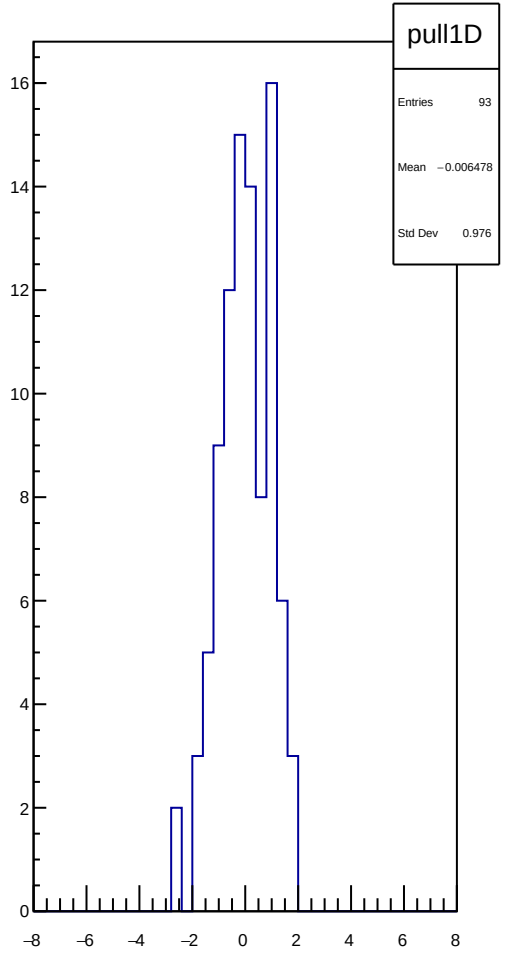

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 647.4 / 92
p0 771.7 ± 0.57
820
810
800
790
780
770
760
750
740

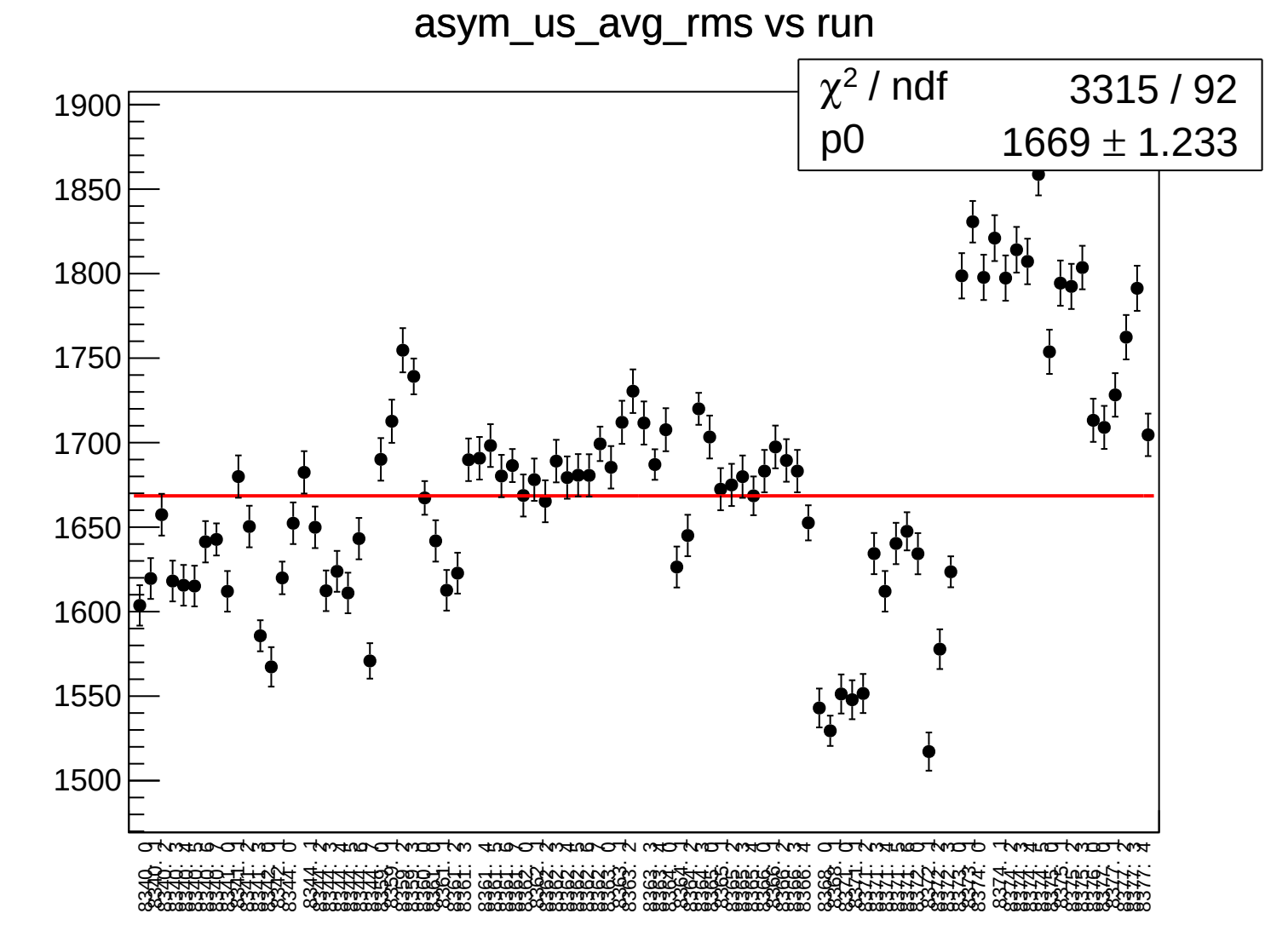

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.9 / 92
p0 −2797 ± 1553
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −416.7
Std Dev 0
3
2
1
0
−1
−2

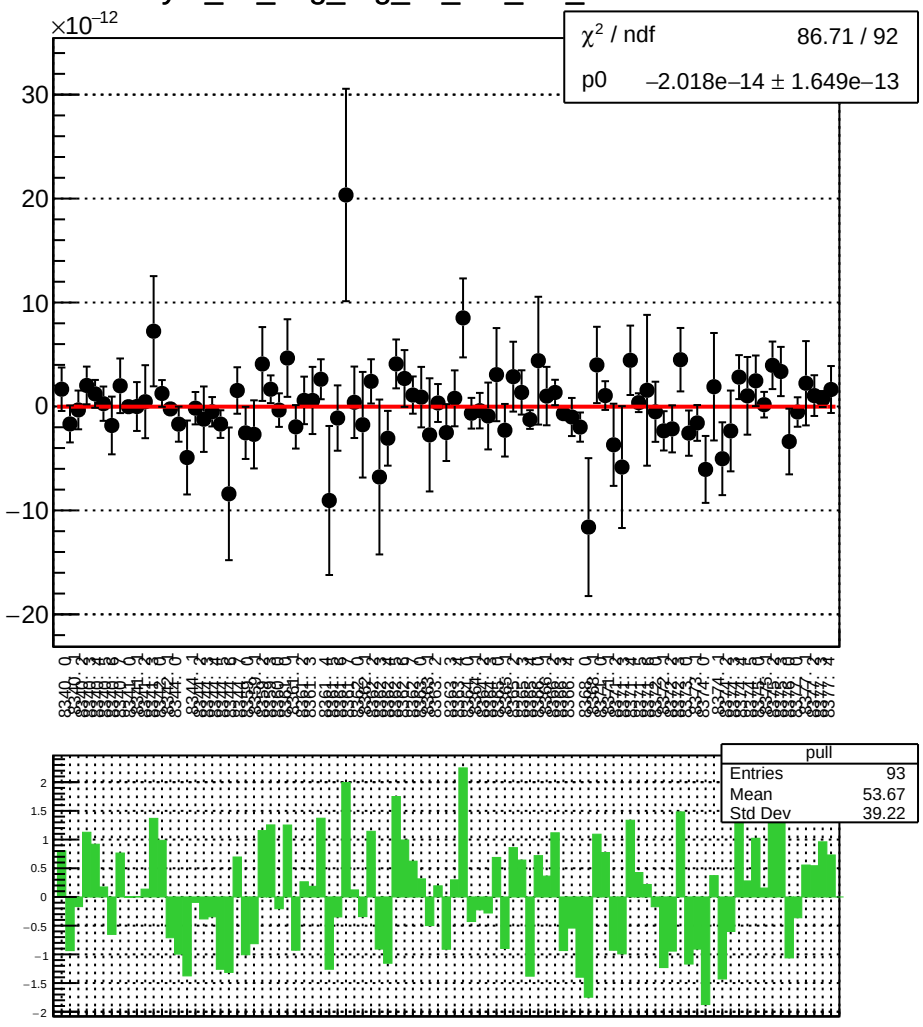

pull1D
Entries 93
Mean 0.007478
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

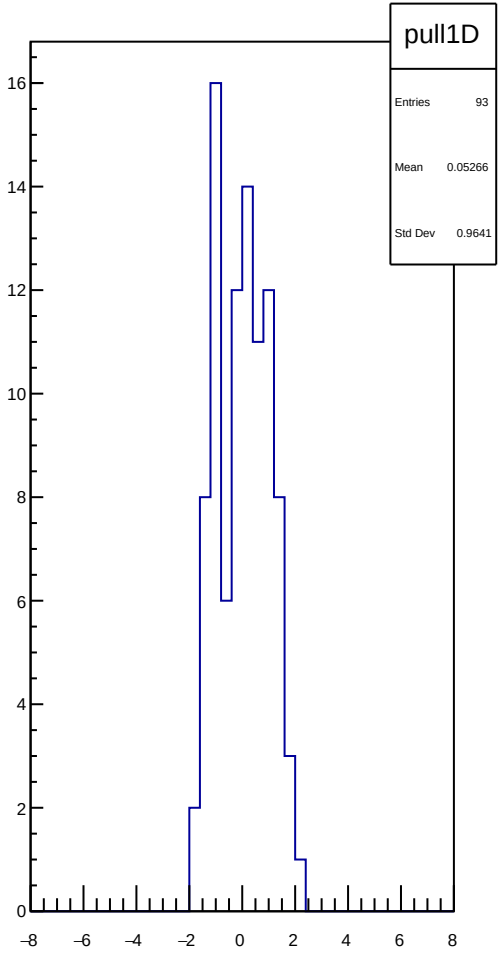

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 3841 / 92
p0 1485 ± 1.098
1700
1650
1600
1550
1500
1450
1400
1350

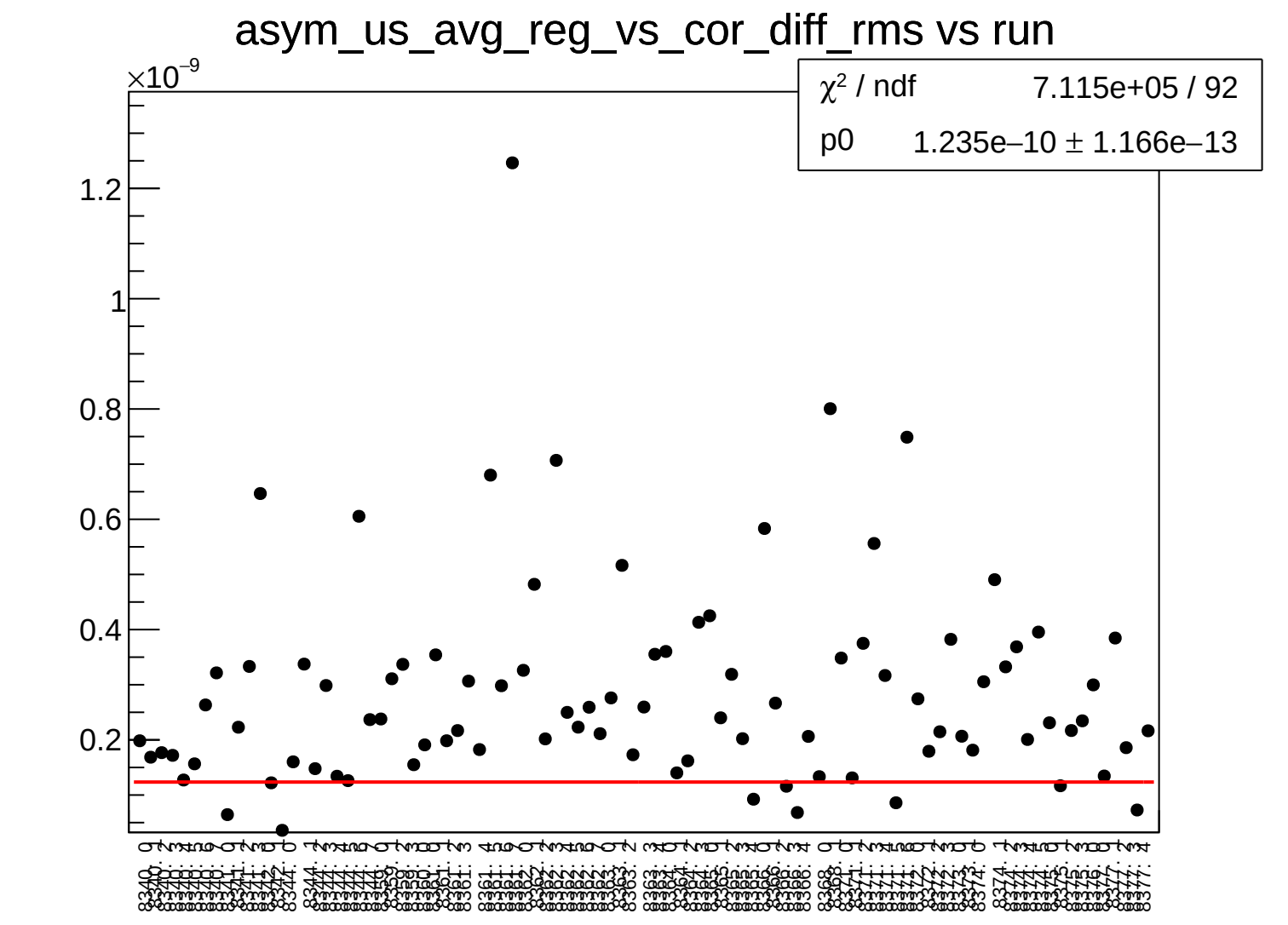

asym_us_avg_mean vs run
χ² / ndf 88.59 / 92
p0 387.4 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −222.1
Std Dev 0
2
1
0
−1
−2
−3

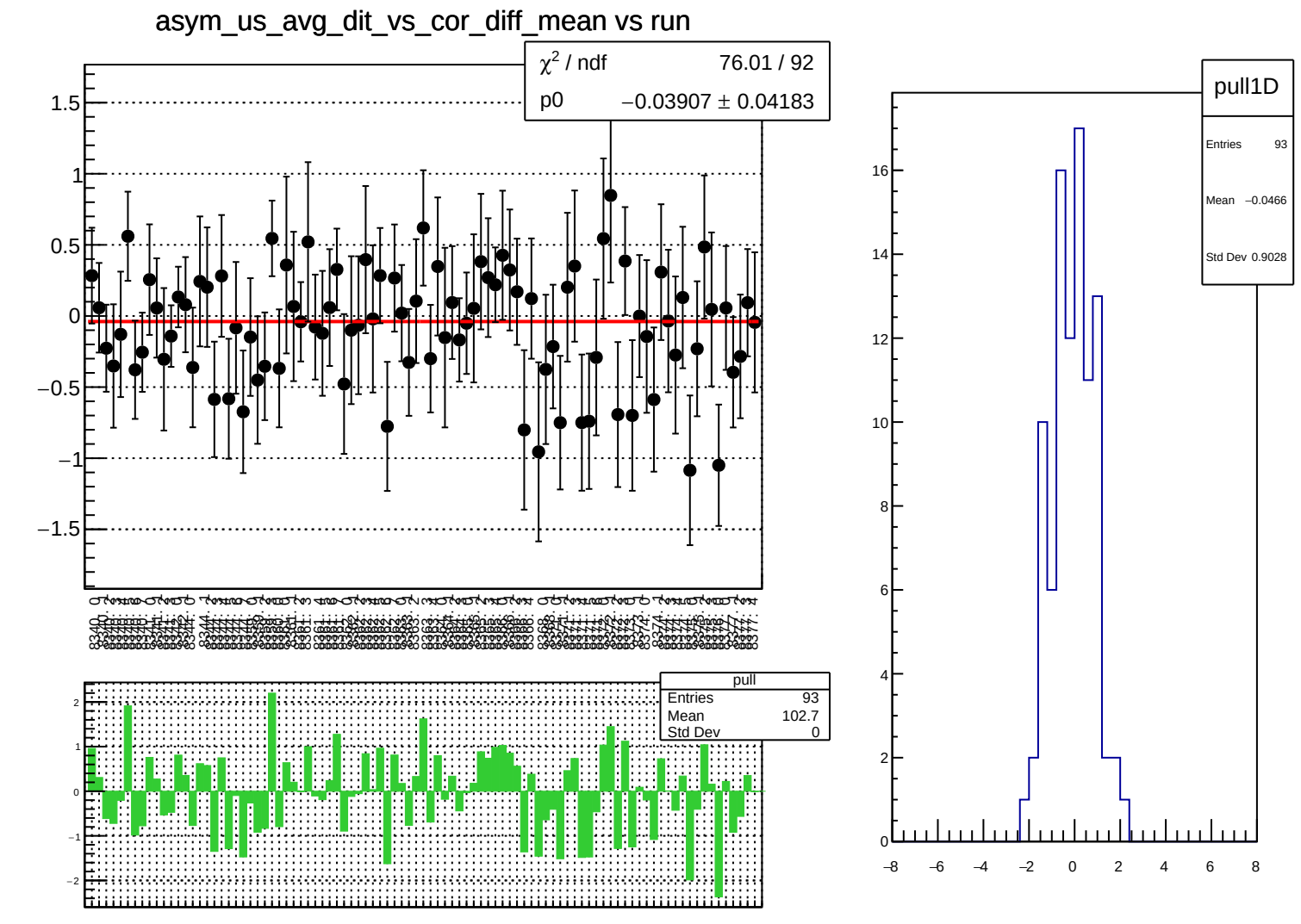

pull1D
Entries 93
Mean −0.006478
Std Dev 0.976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

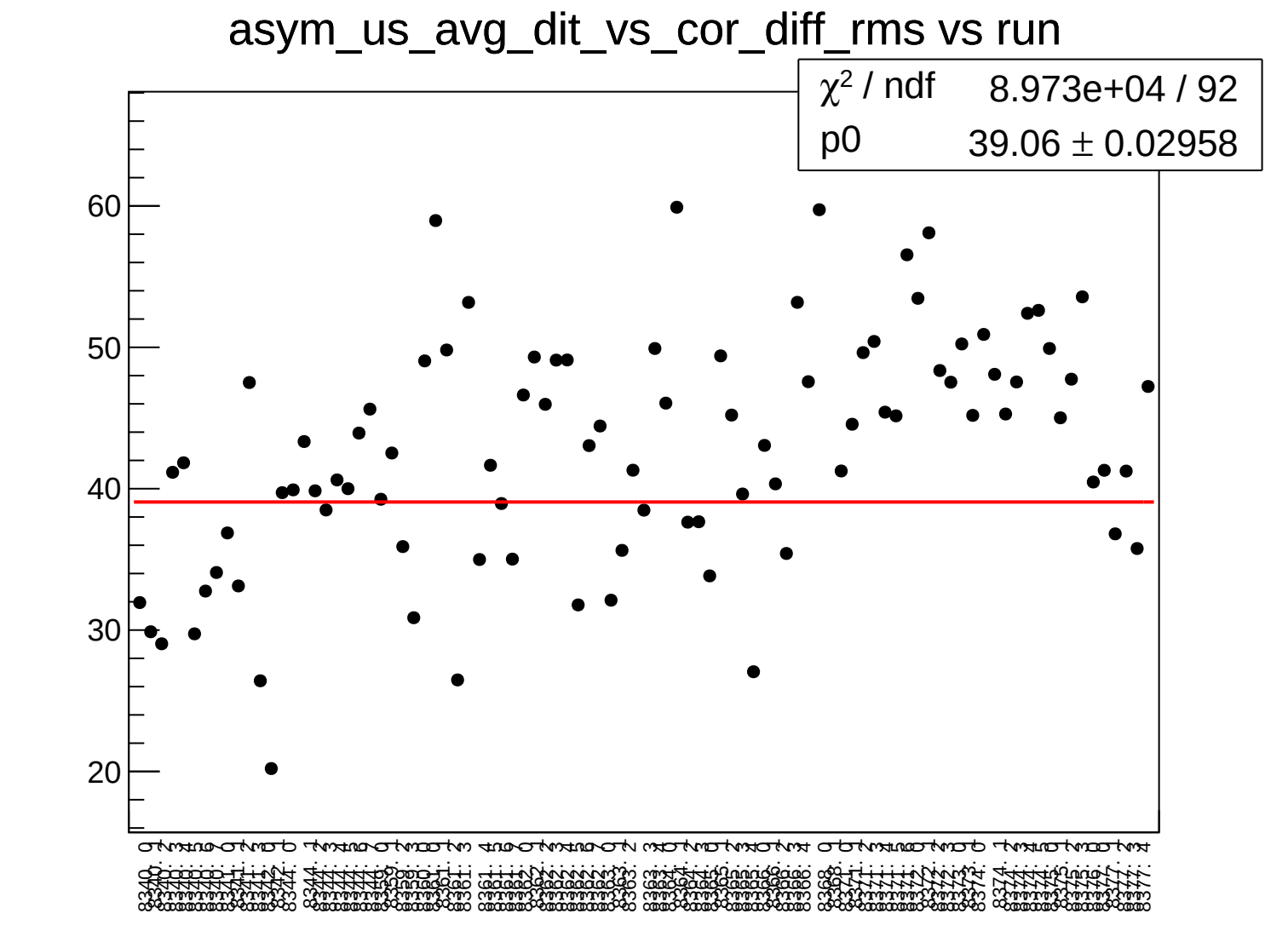

asym_us_avg_rms vs run
χ² / ndf 3315 / 92
p0 1669 ± 1.233
1900
1850
1800
1750
1700
1650
1600
1550
1500

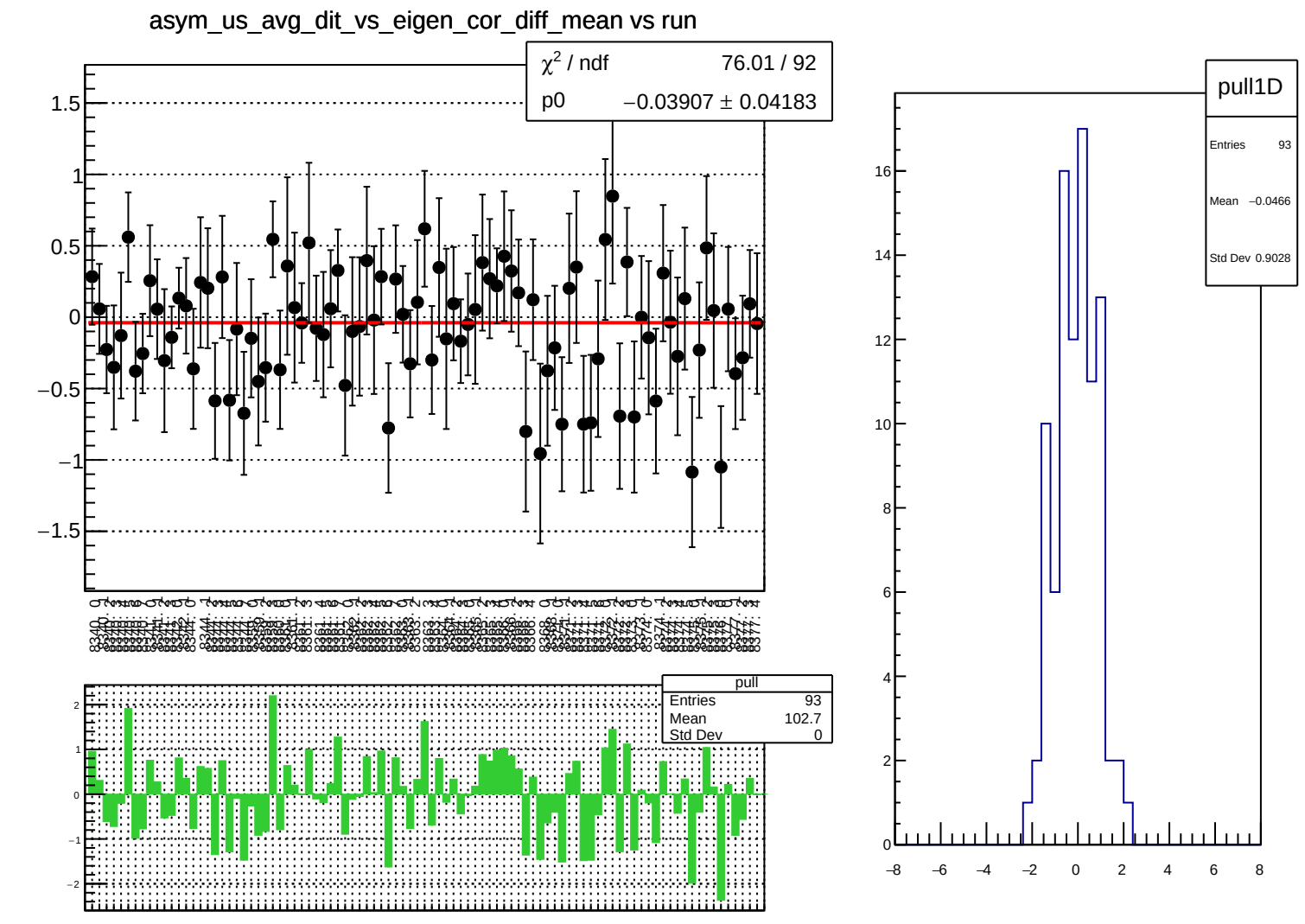

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.71 / 92
p0 −2.018e−14 ± 1.649e−13
pull
Entries 93
Mean 53.67
Std Dev 39.22

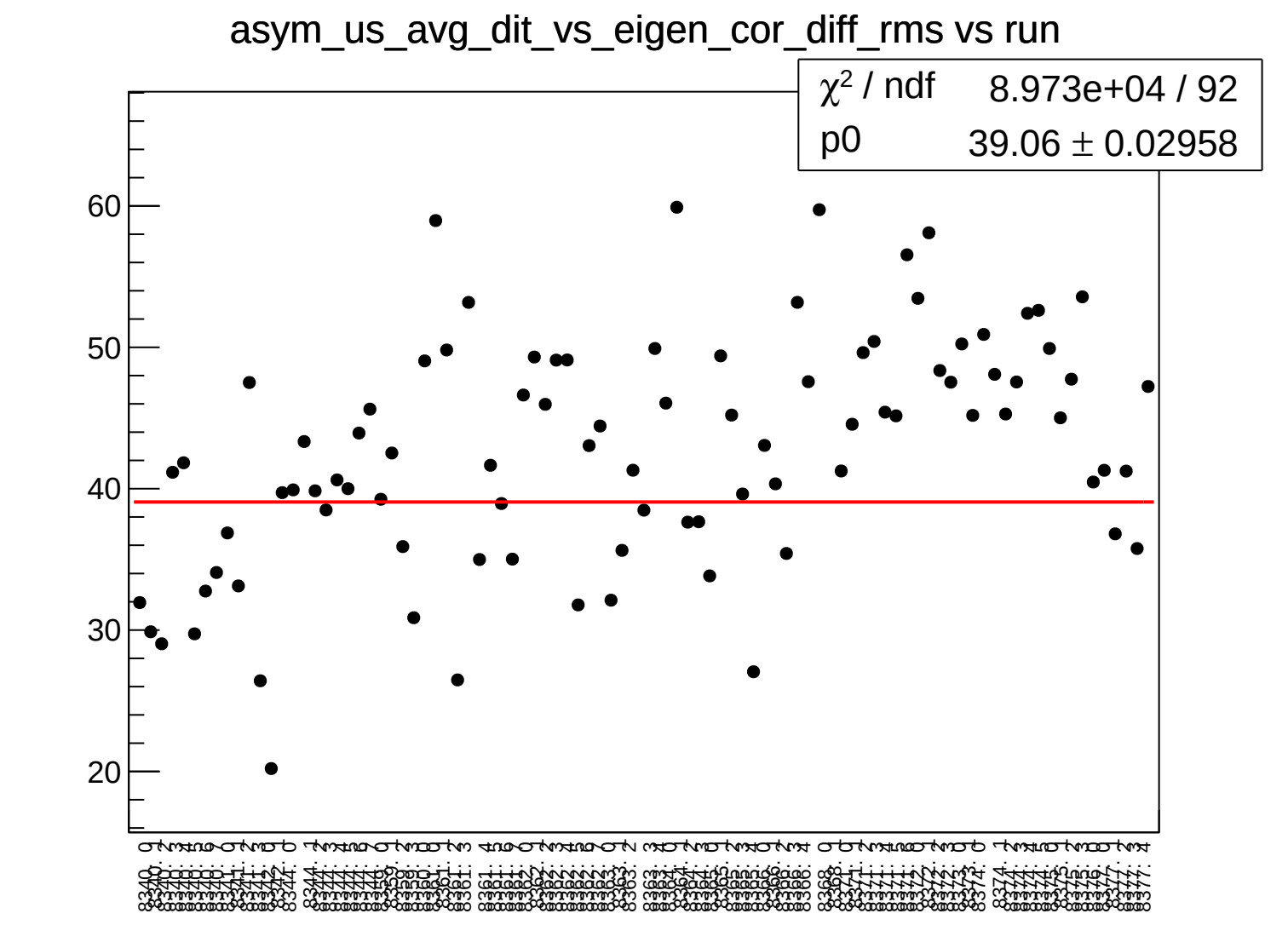

pull1D
Entries 93
Mean 0.05266
Std Dev 0.9641

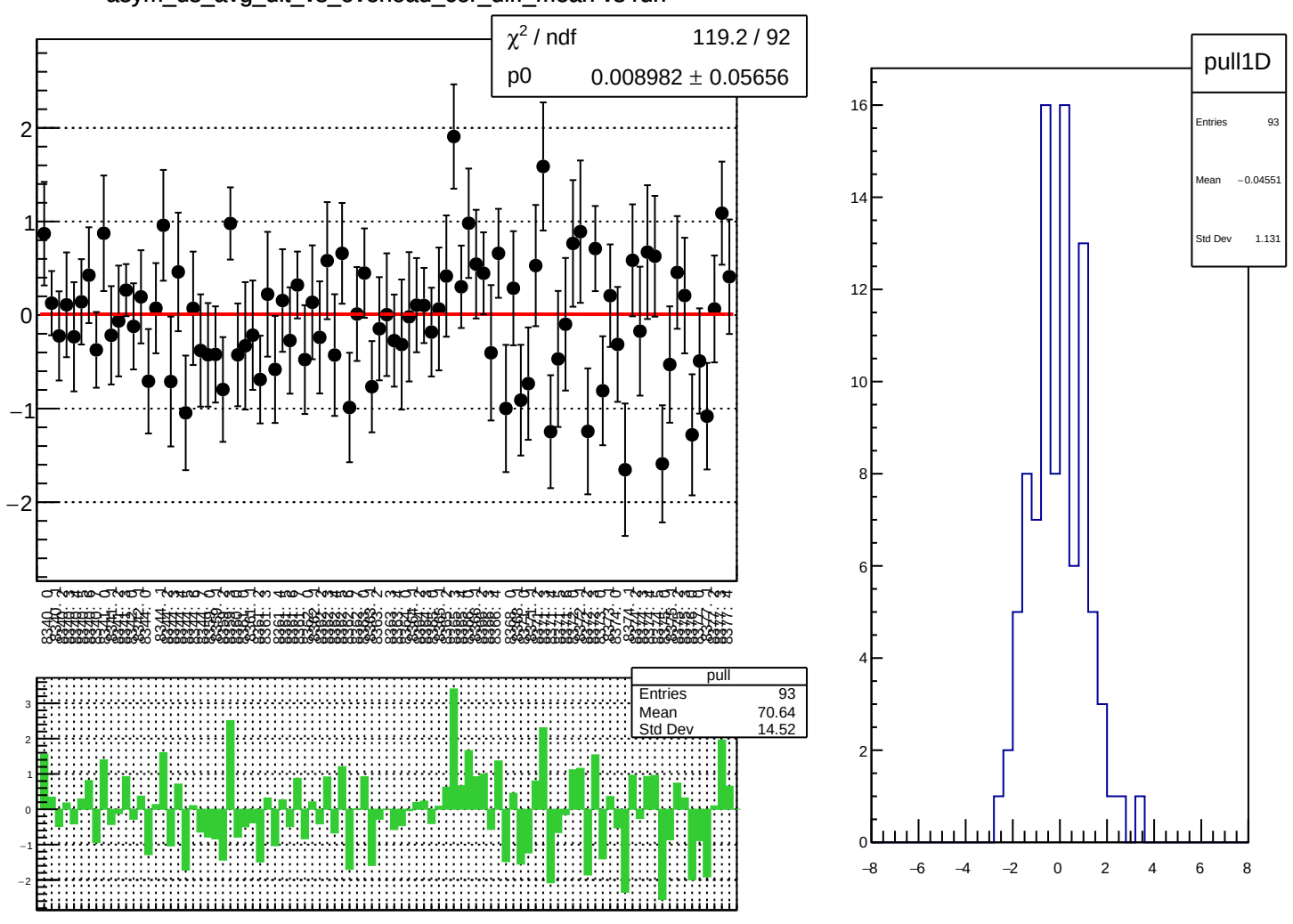

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.115e+05 / 92
p0 1.235e−10 ± 1.166e−13
1.2
1
0.8
0.6
0.4
0.2

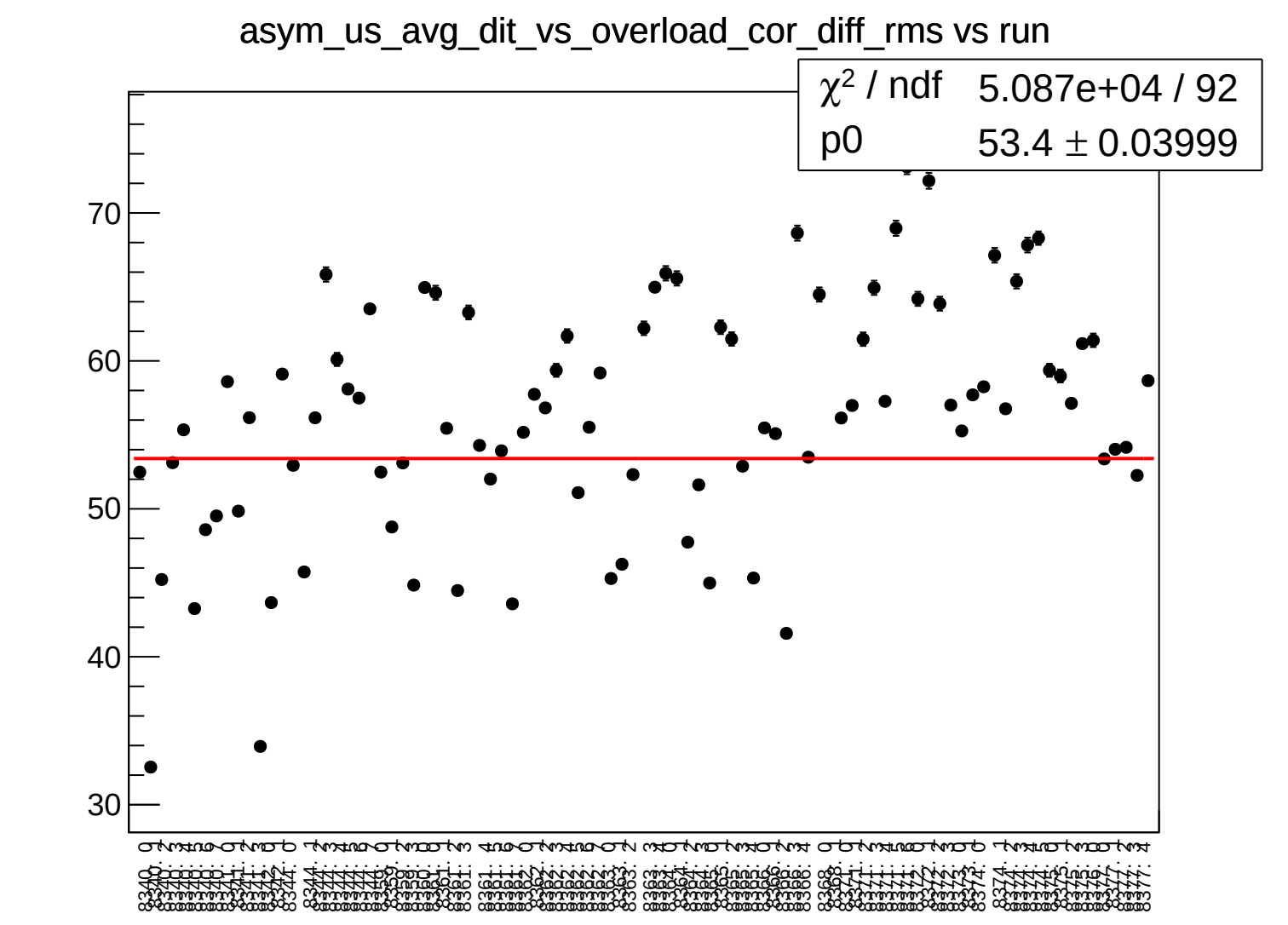

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 92
p0 −0.03907 ± 0.04183
pull
Entries 93
Mean 102.7
Std Dev 0
pull1D
Entries 93
Mean −0.0466
Std Dev 0.9028

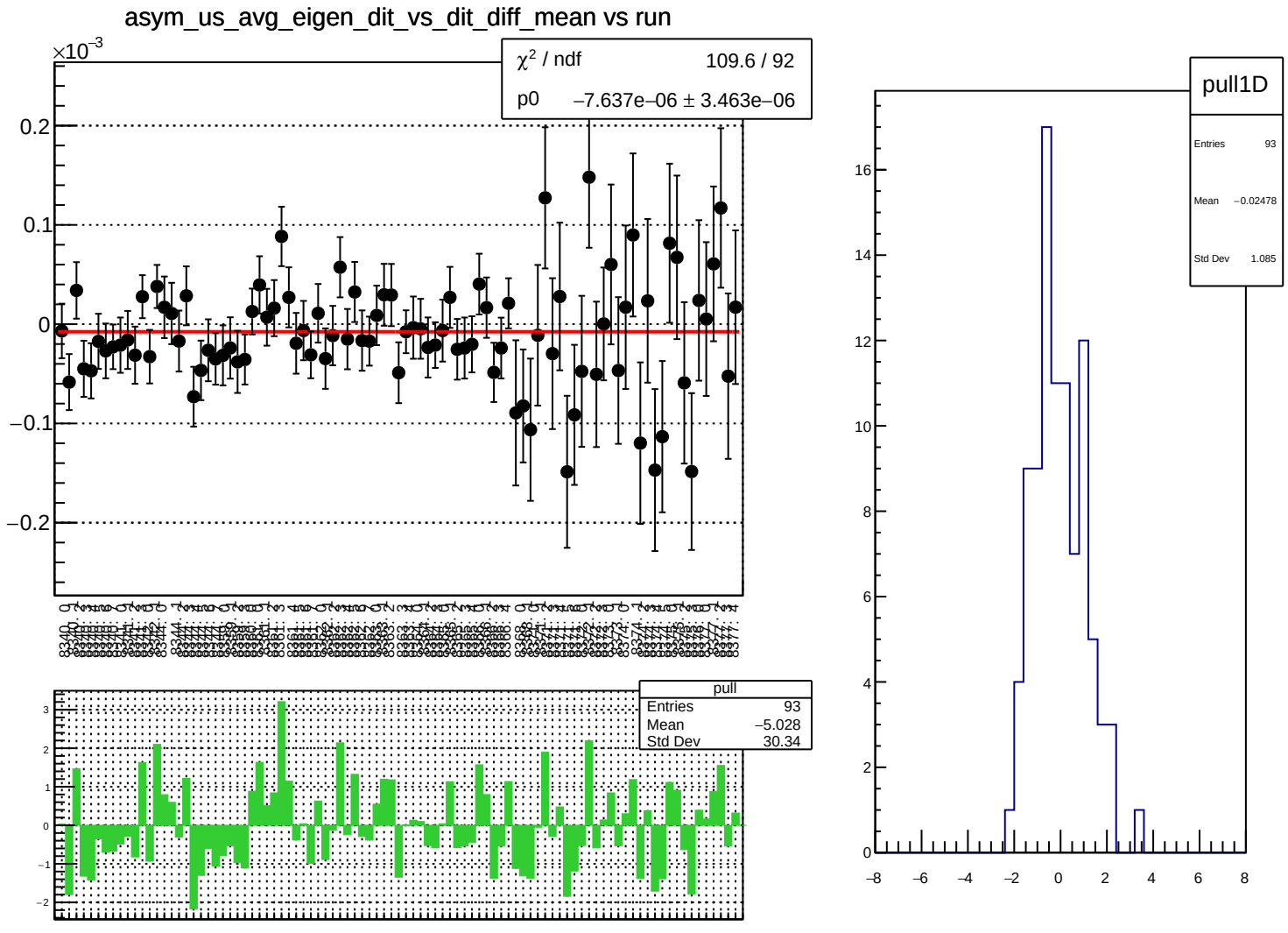

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.973e+04 / 92
p0 39.06 ± 0.02958
60
50
40
30
20

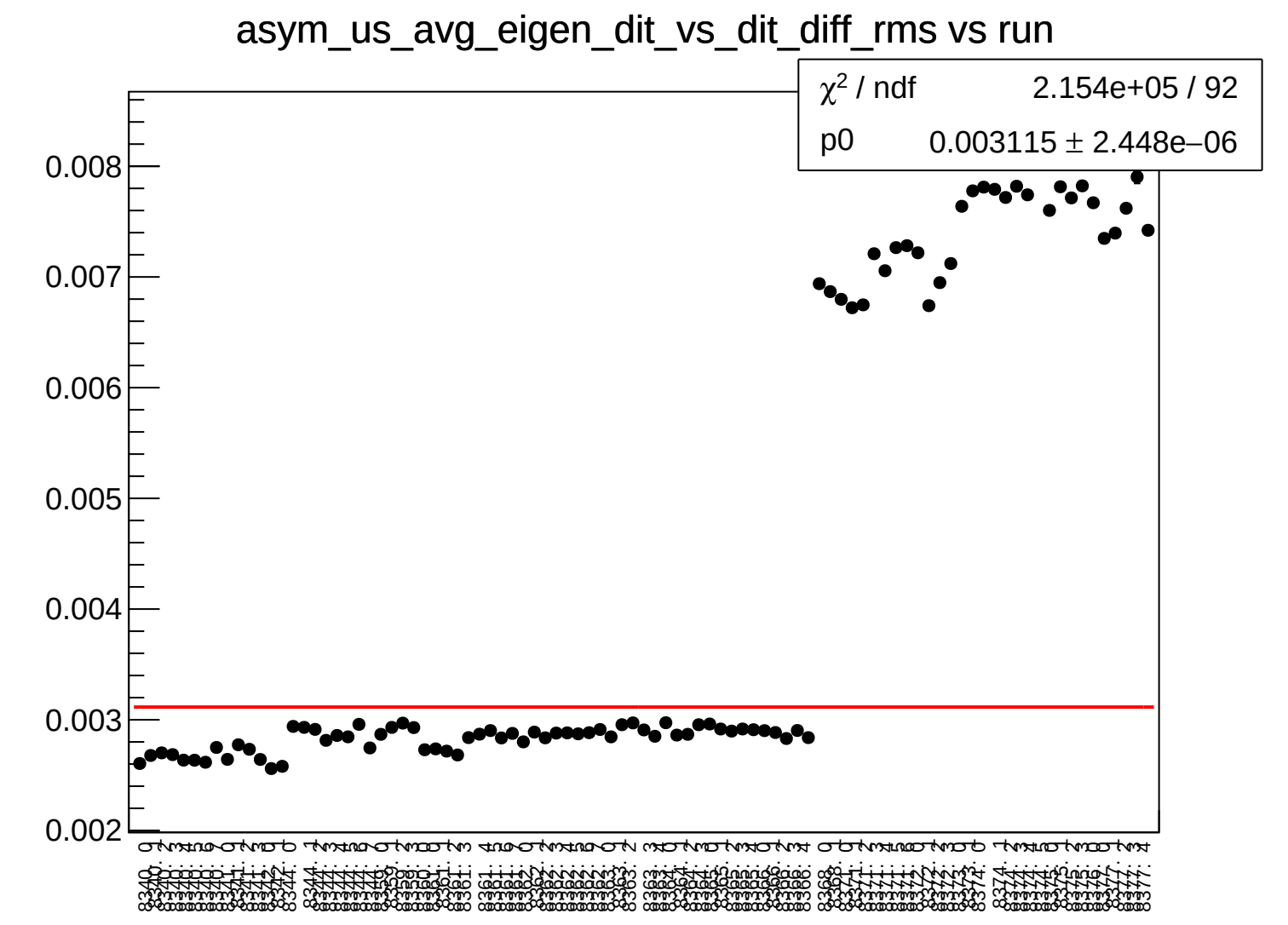

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 92
p0 −0.03907 ± 0.04183
pull
Entries 93
Mean 102.7
Std Dev 0
pull1D
Entries 93
Mean −0.0466
Std Dev 0.9028

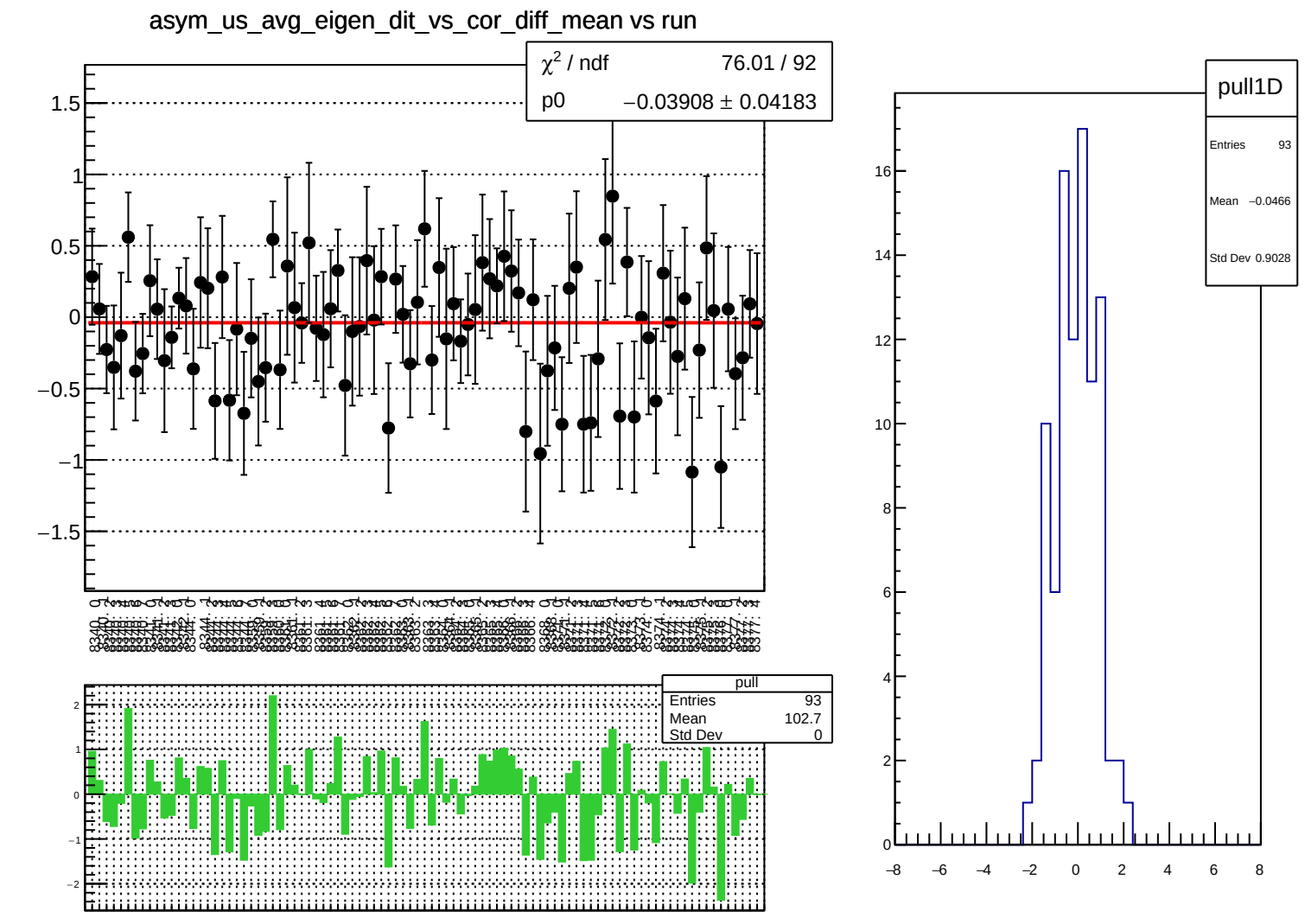

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.973e+04 / 92
p0 39.06 ± 0.02958
60
50
40
30
20

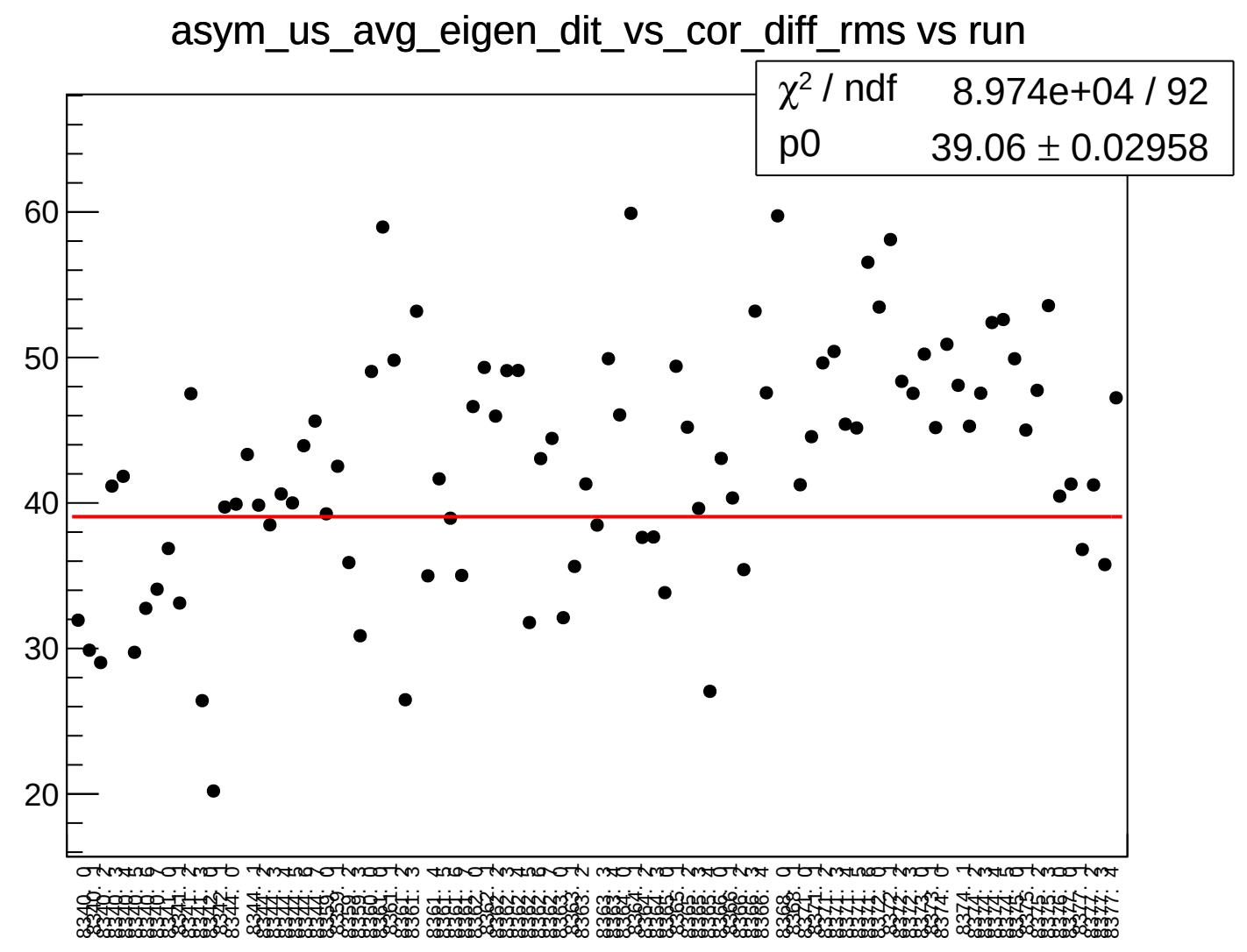

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.2 / 92
p0 0.008982 ± 0.05656
pull
Entries 93
Mean 70.64
Std Dev 14.52
pull1D
Entries 93
Mean −0.04551
Std Dev 1.131

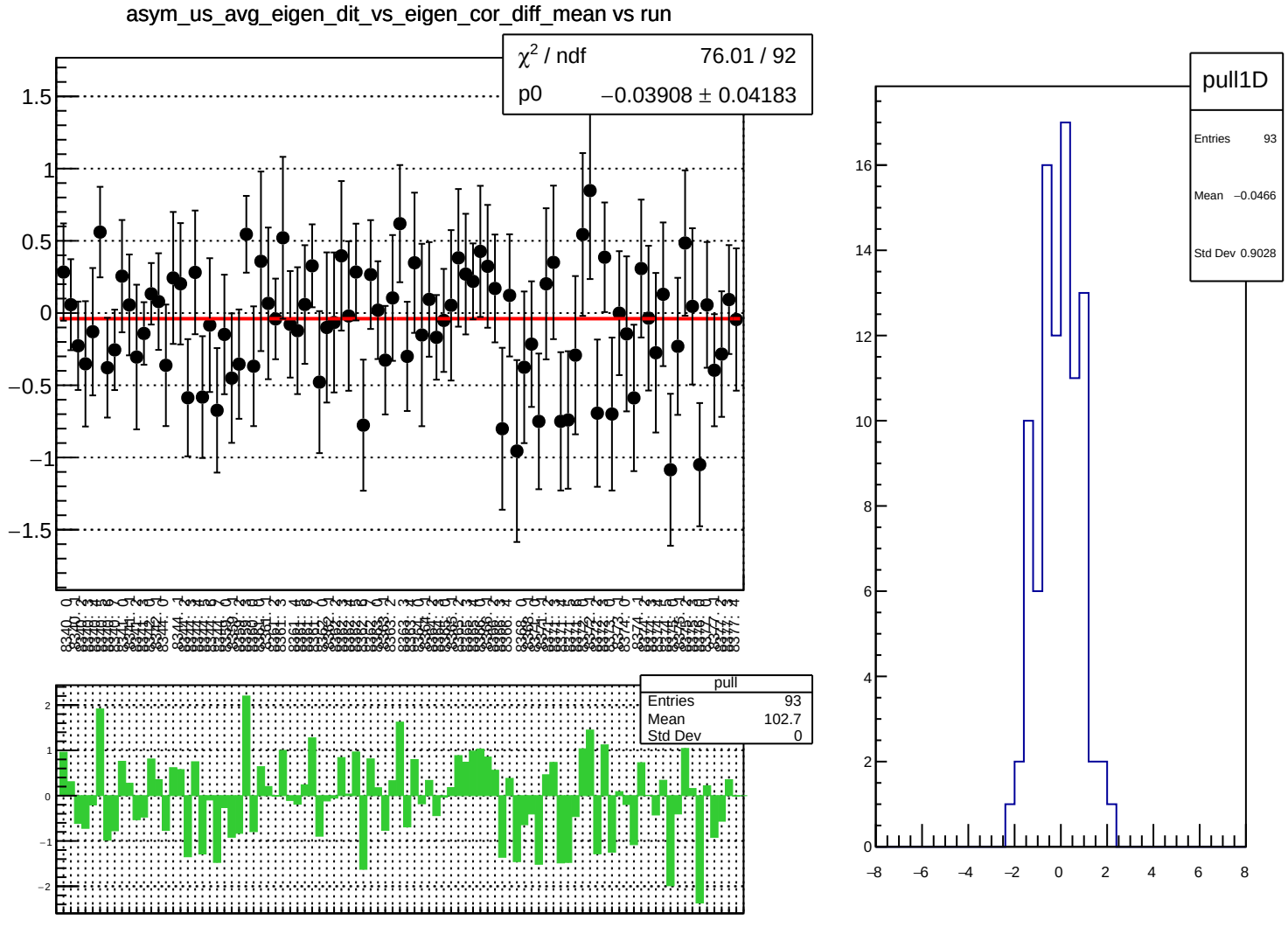

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.087e+04 / 92
p0 53.4 ± 0.03999
70
60
50
40
30

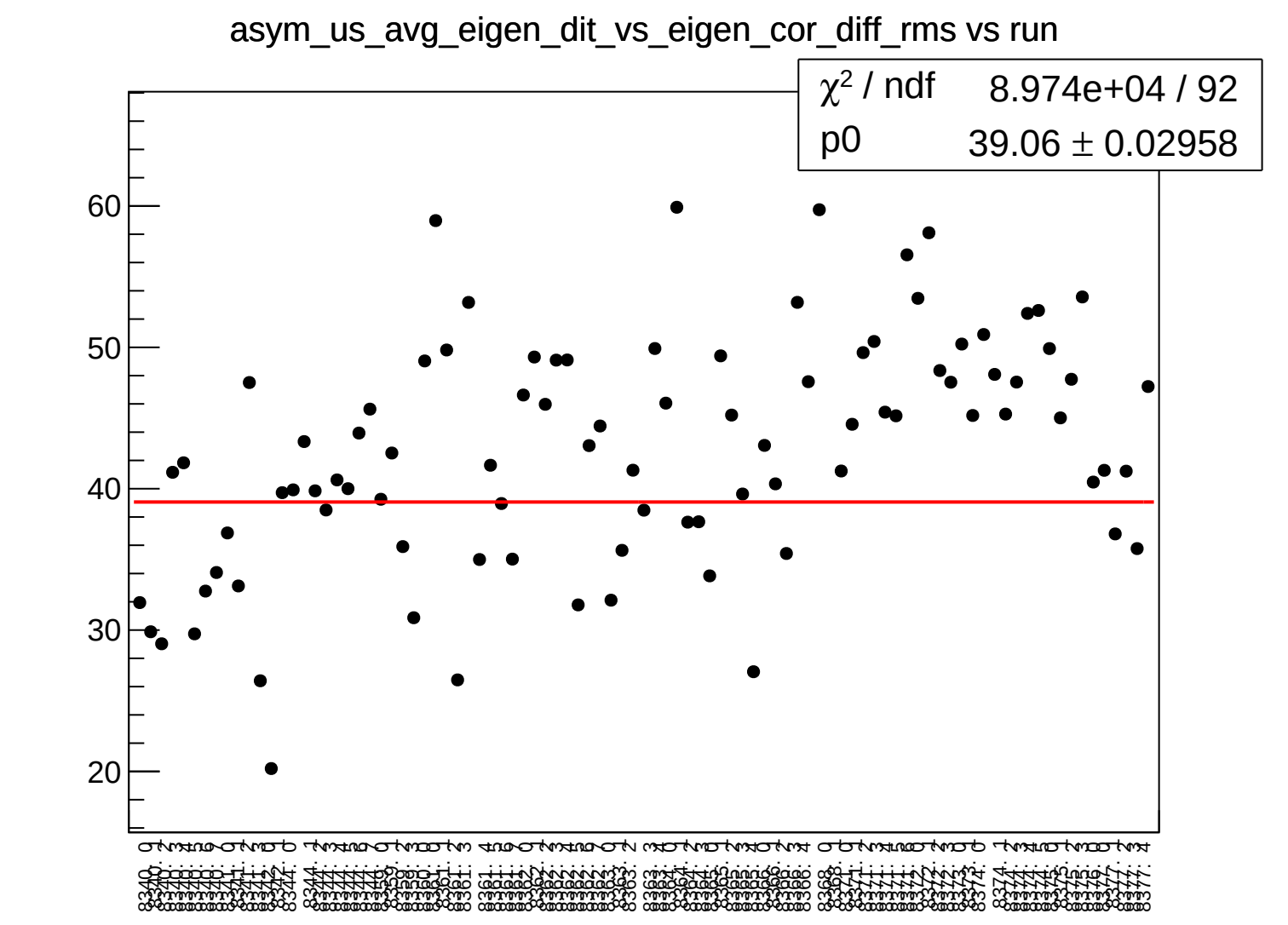

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.6 / 92
p0 −7.637e−06 ± 3.463e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean −5.028
Std Dev 30.34
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02478
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

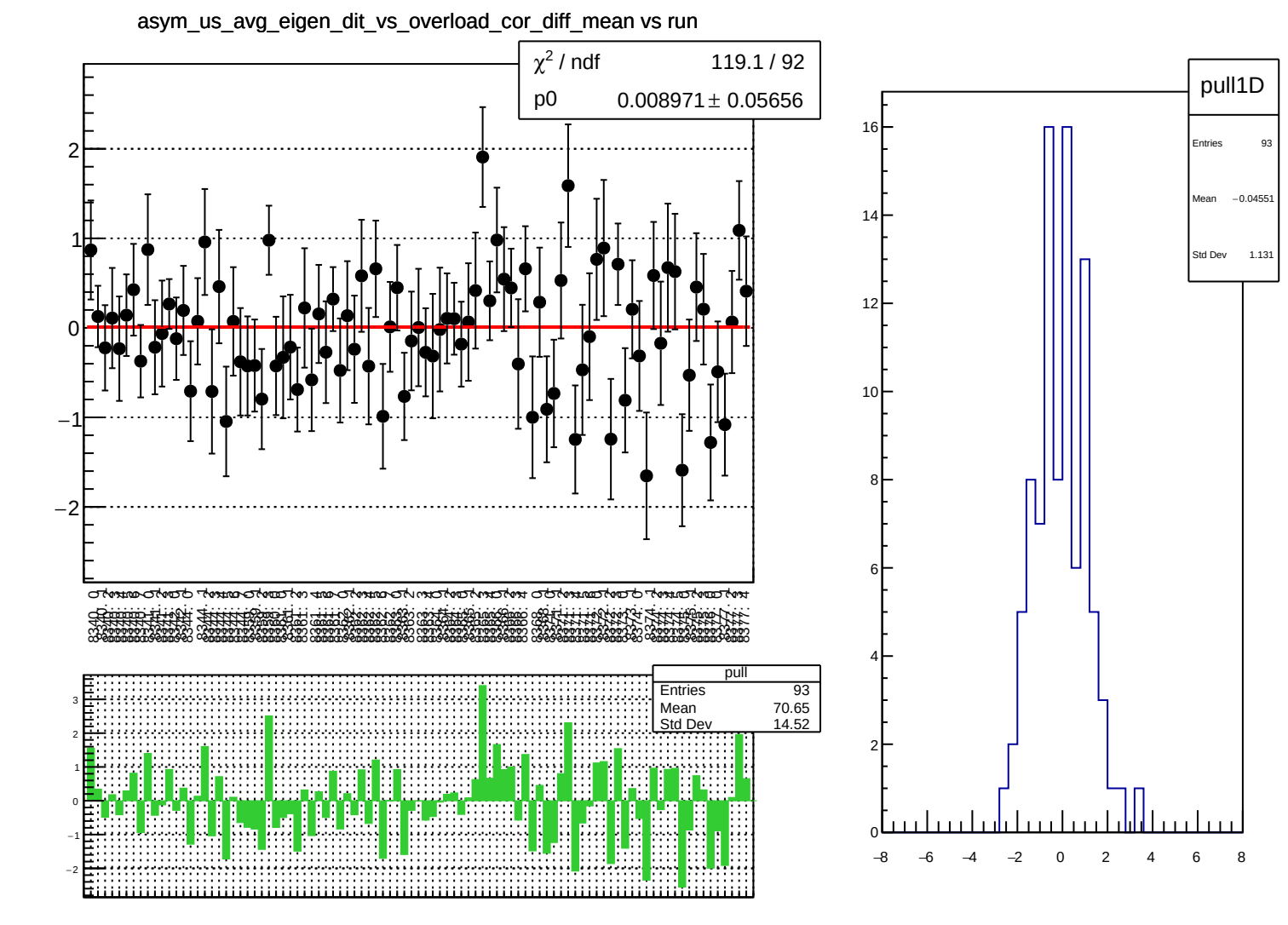

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.154e+05 / 92
p0 0.003115 ± 2.448e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

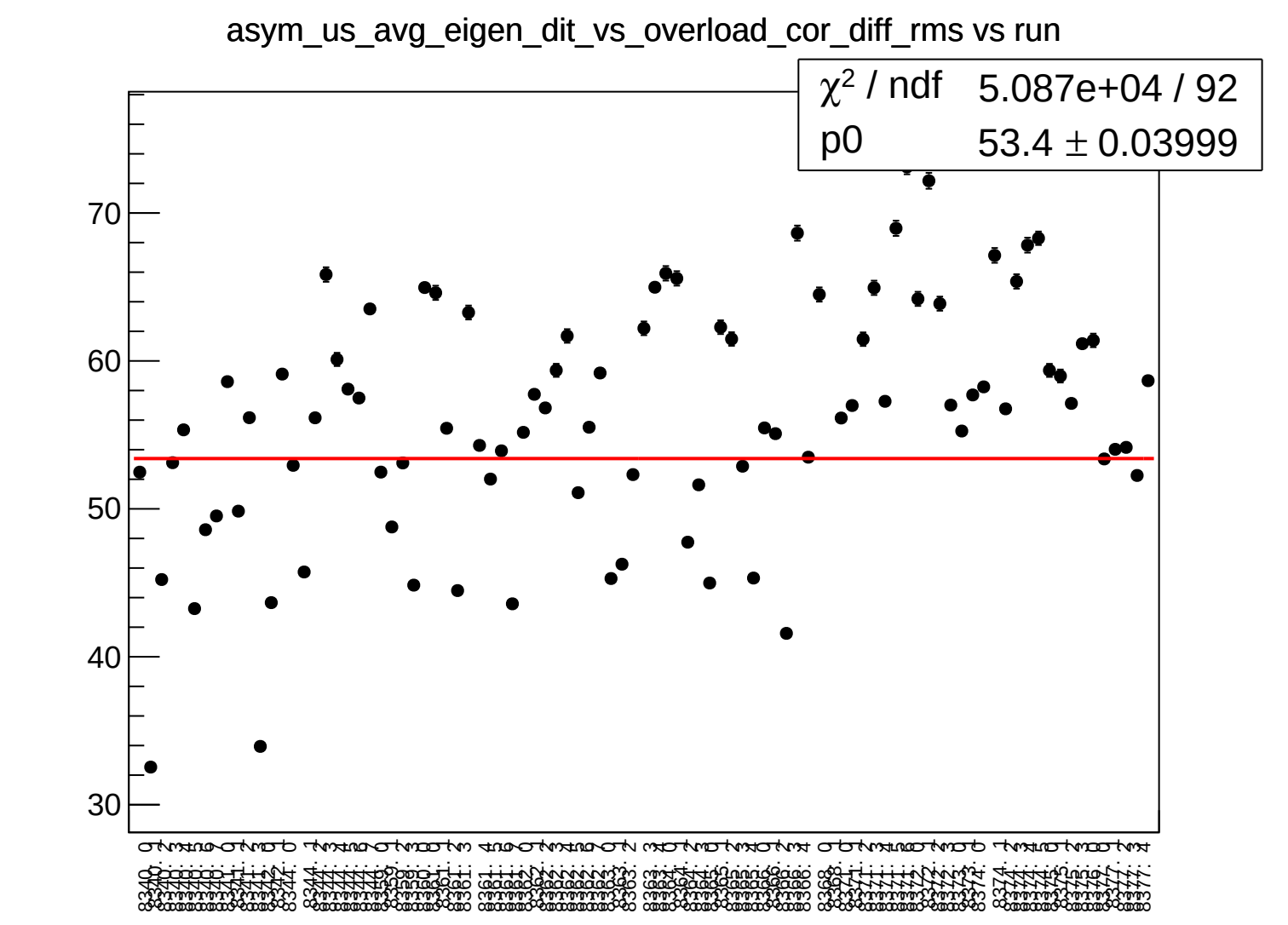

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.01 / 92
p0 −0.03908 ± 0.04183
pull
Entries 93
Mean 102.7
Std Dev 0
pull1D
Entries 93
Mean −0.0466
Std Dev 0.9028

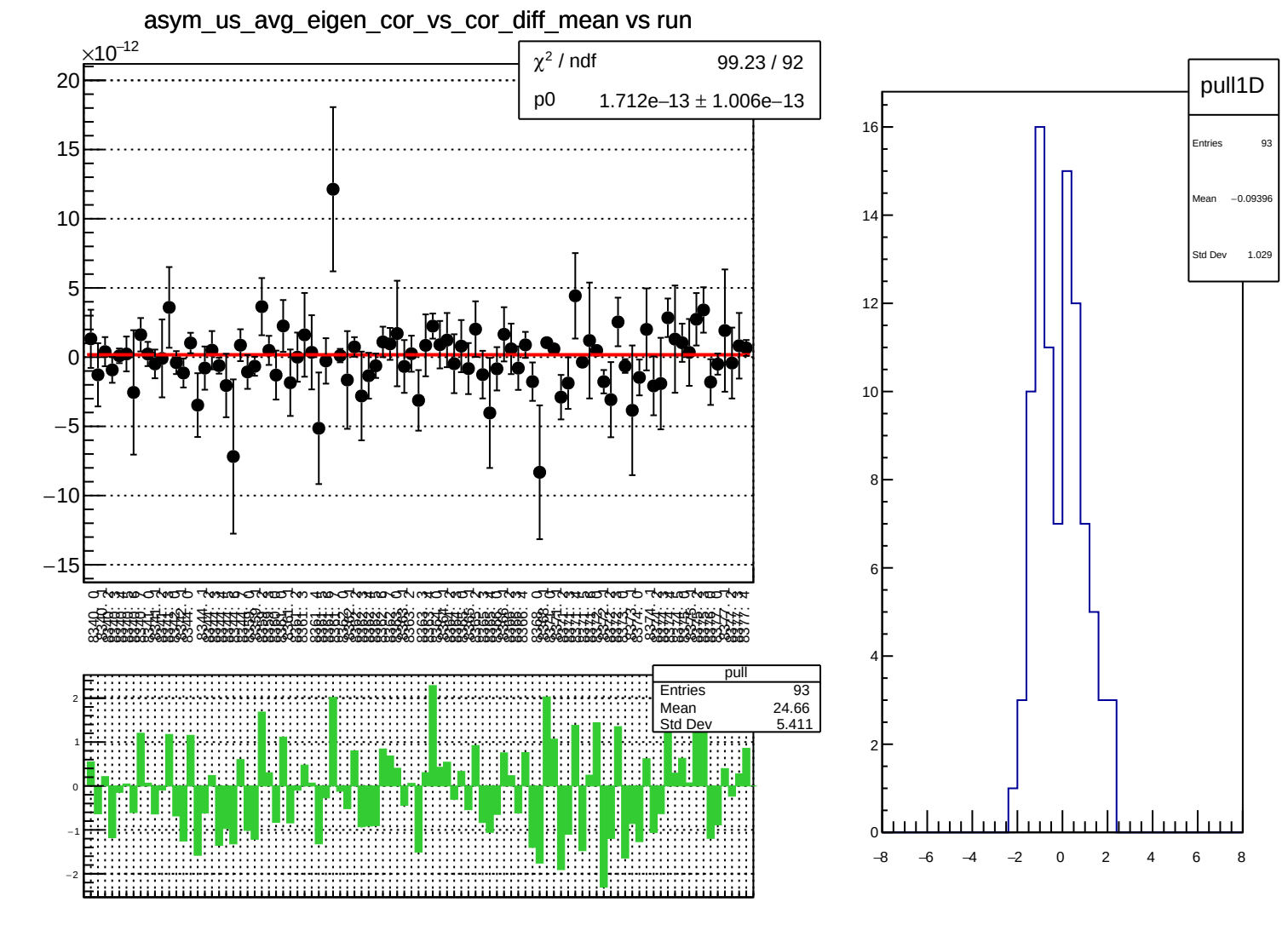

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.974e+04 / 92
p0 39.06 ± 0.02958
60
50
40
30
20

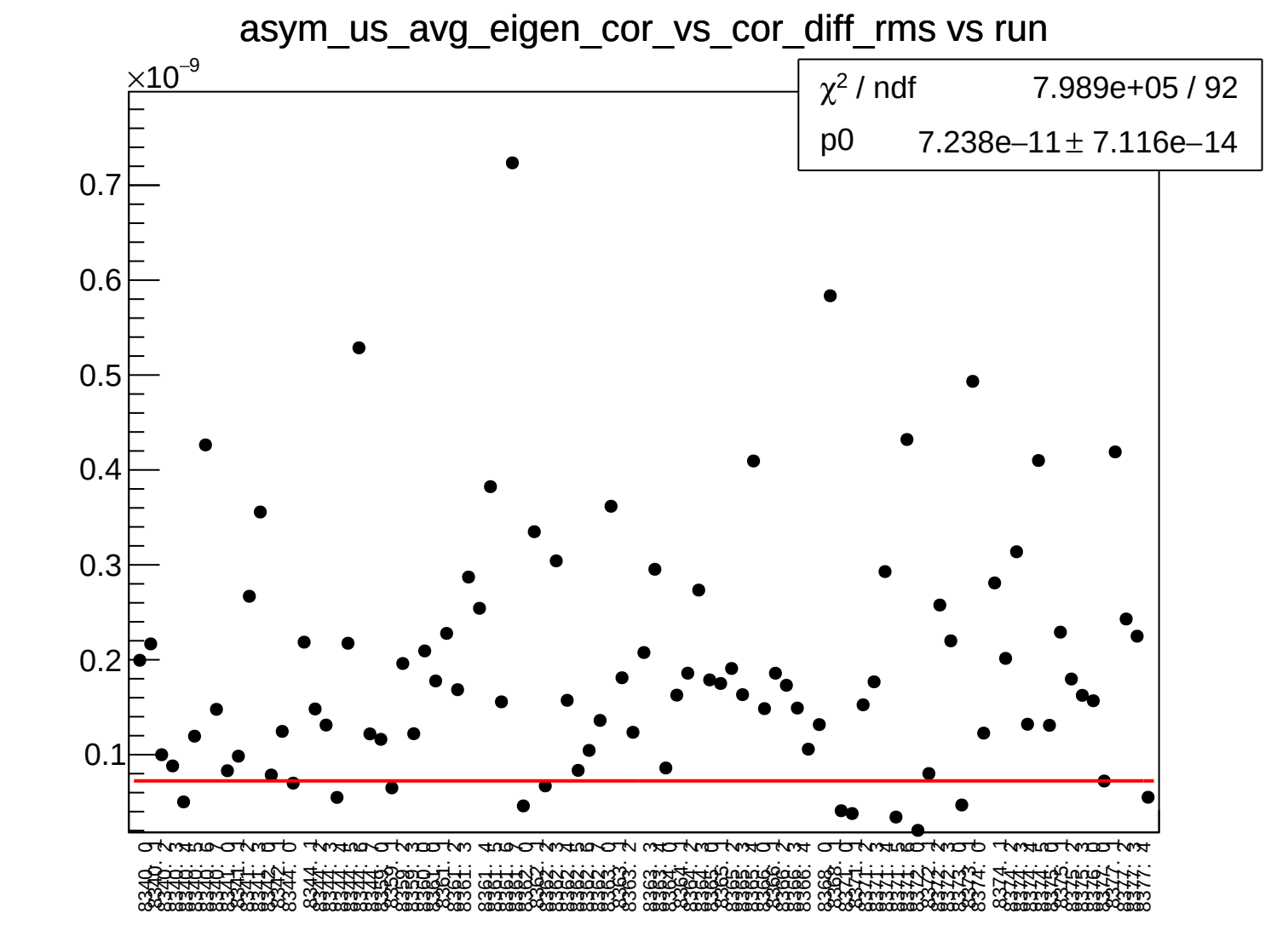

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.01 / 92
p0 −0.03908 ± 0.04183
pull
Entries 93
Mean 102.7
Std Dev 0
pull1D
Entries 93
Mean −0.0466
Std Dev 0.9028

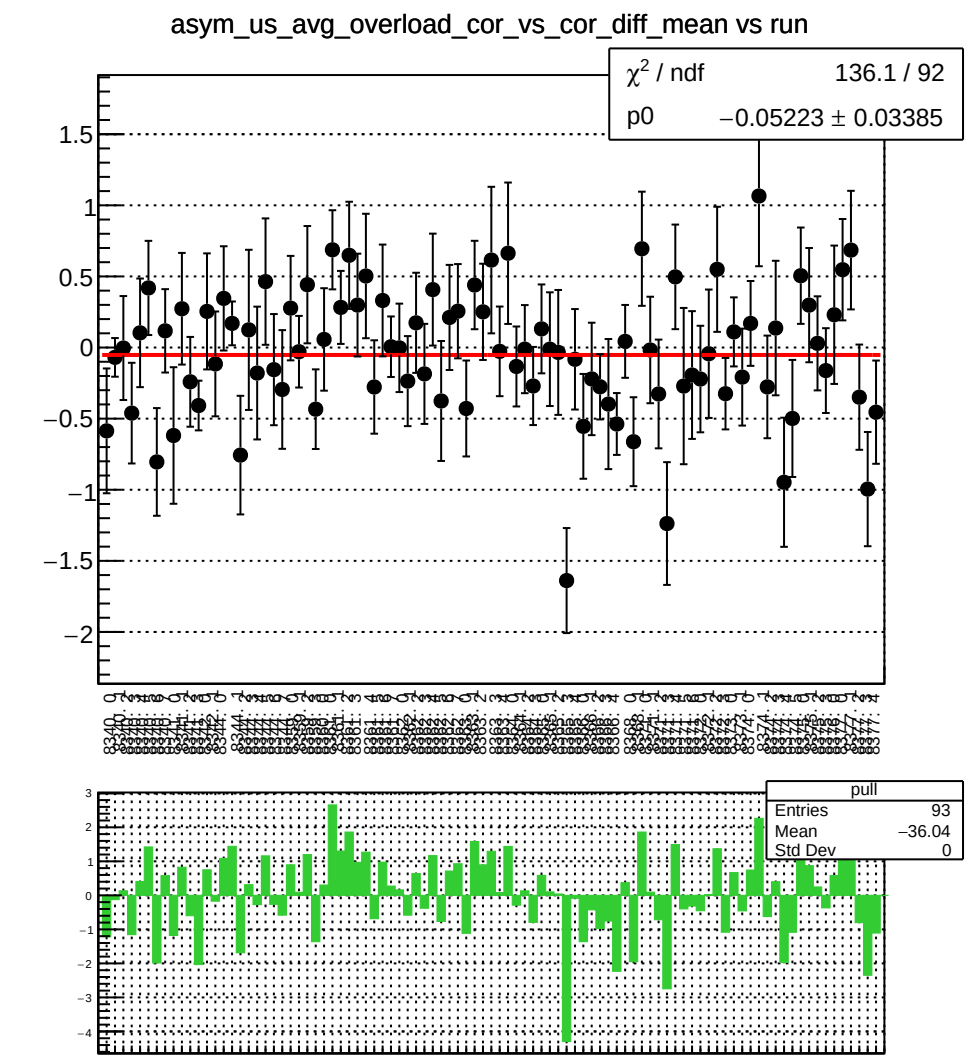

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.974e+04 / 92
p0 39.06 ± 0.02958
60
50
40
30
20

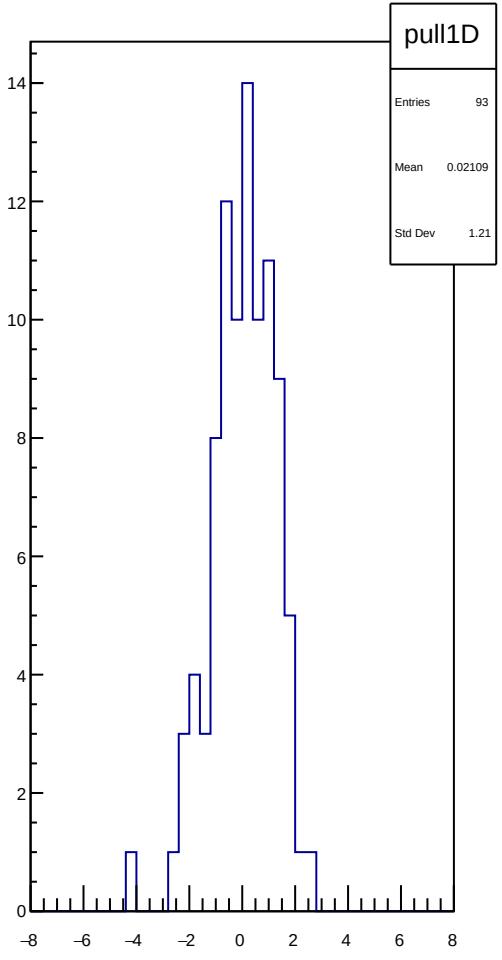

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 119.1 / 92
p0 0.008971 ± 0.05656
pull
Entries 93
Mean 70.65
Std Dev 14.52
pull1D
Entries 93
Mean −0.04551
Std Dev 1.131

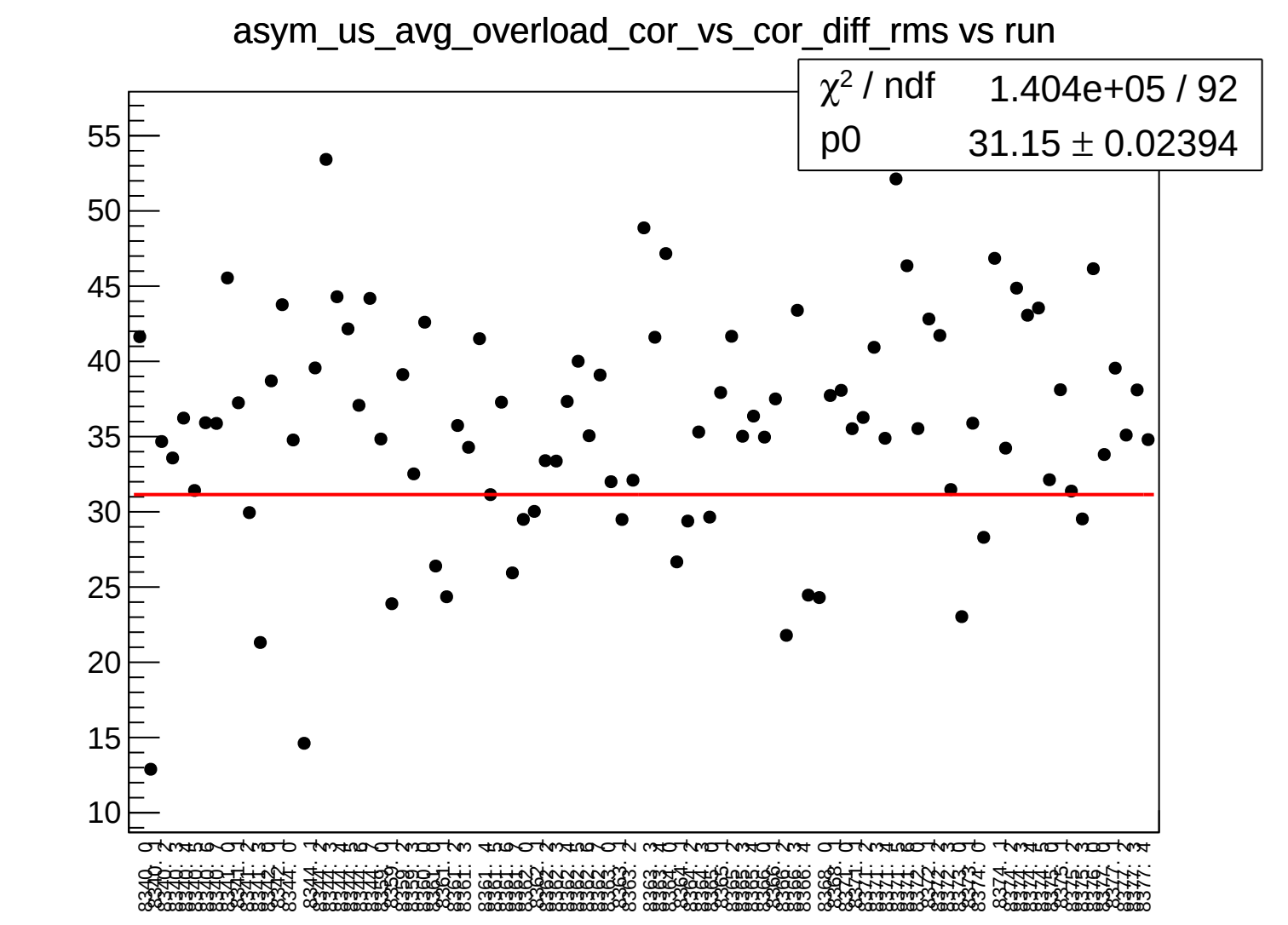

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.087e+04 / 92
p0 53.4 ± 0.03999
70
60
50
40
30

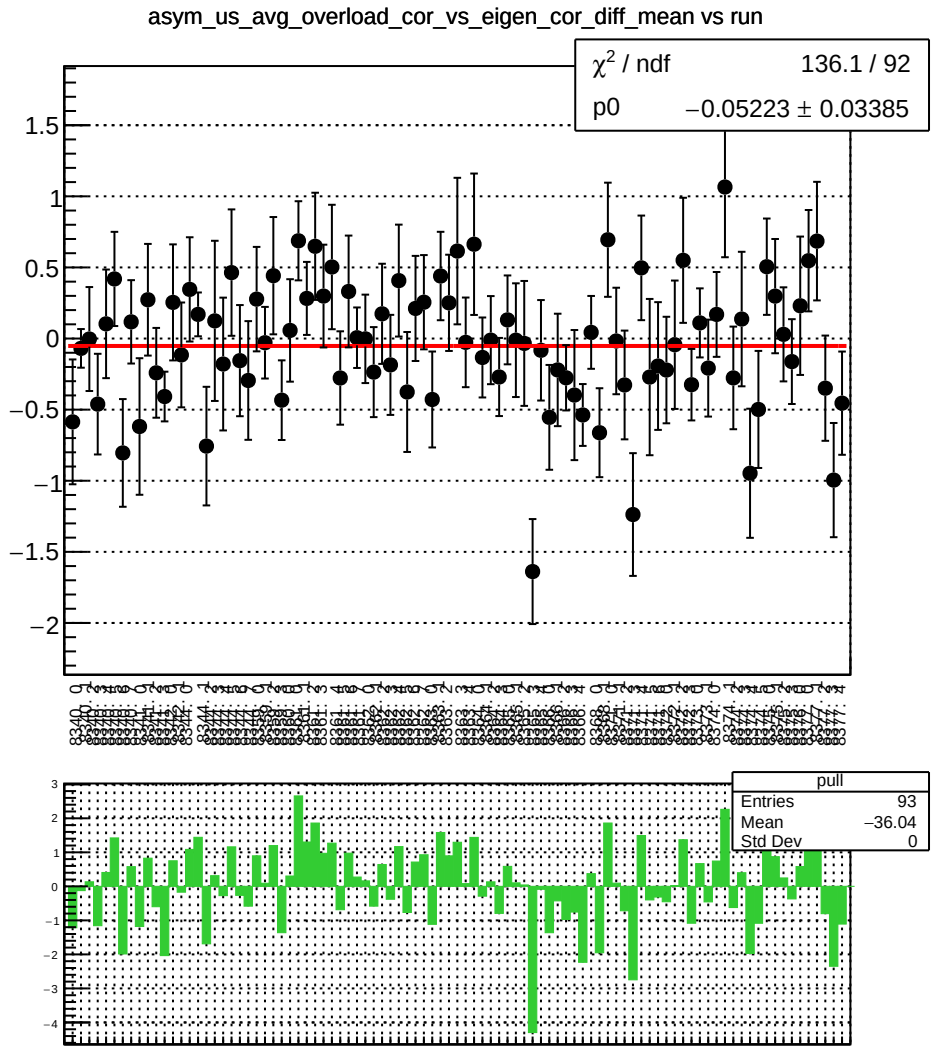

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.23 / 92
p0 1.712e−13 ± 1.006e−13
pull
Entries 93
Mean 24.66
Std Dev 5.411
pull1D
Entries 93
Mean −0.09396
Std Dev 1.029

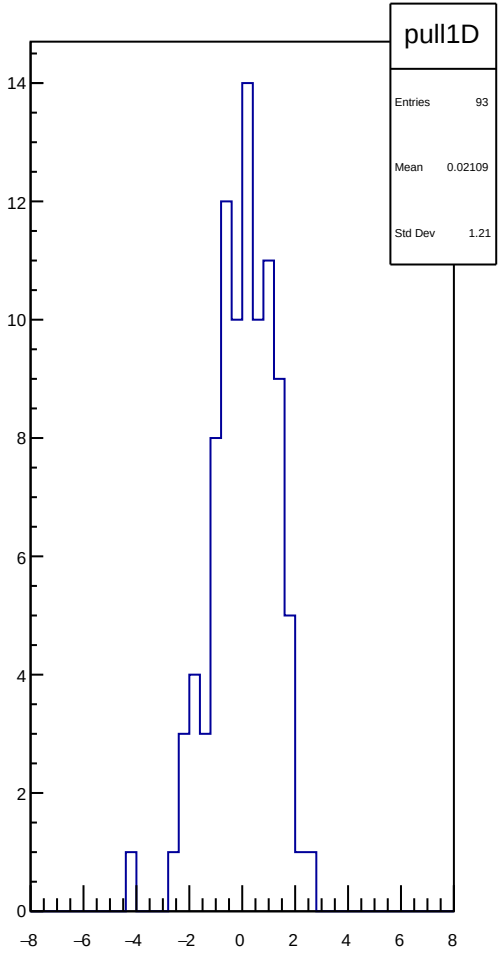

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.989e+05 / 92
p0 7.238e−11 ± 7.116e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

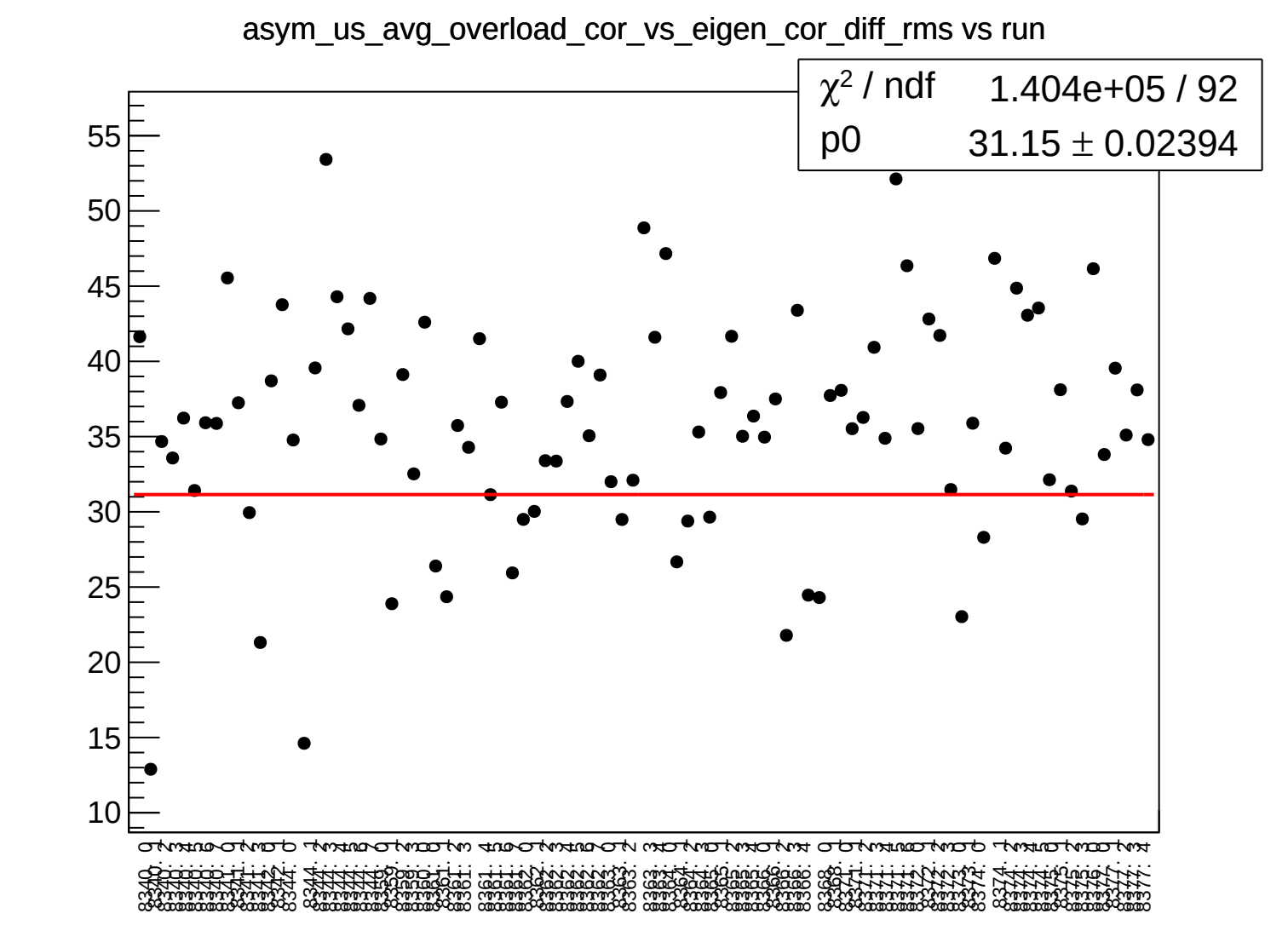

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 136.1 / 92
p0 −0.05223 ± 0.03385
pull
Entries 93
Mean −36.04
Std Dev 0

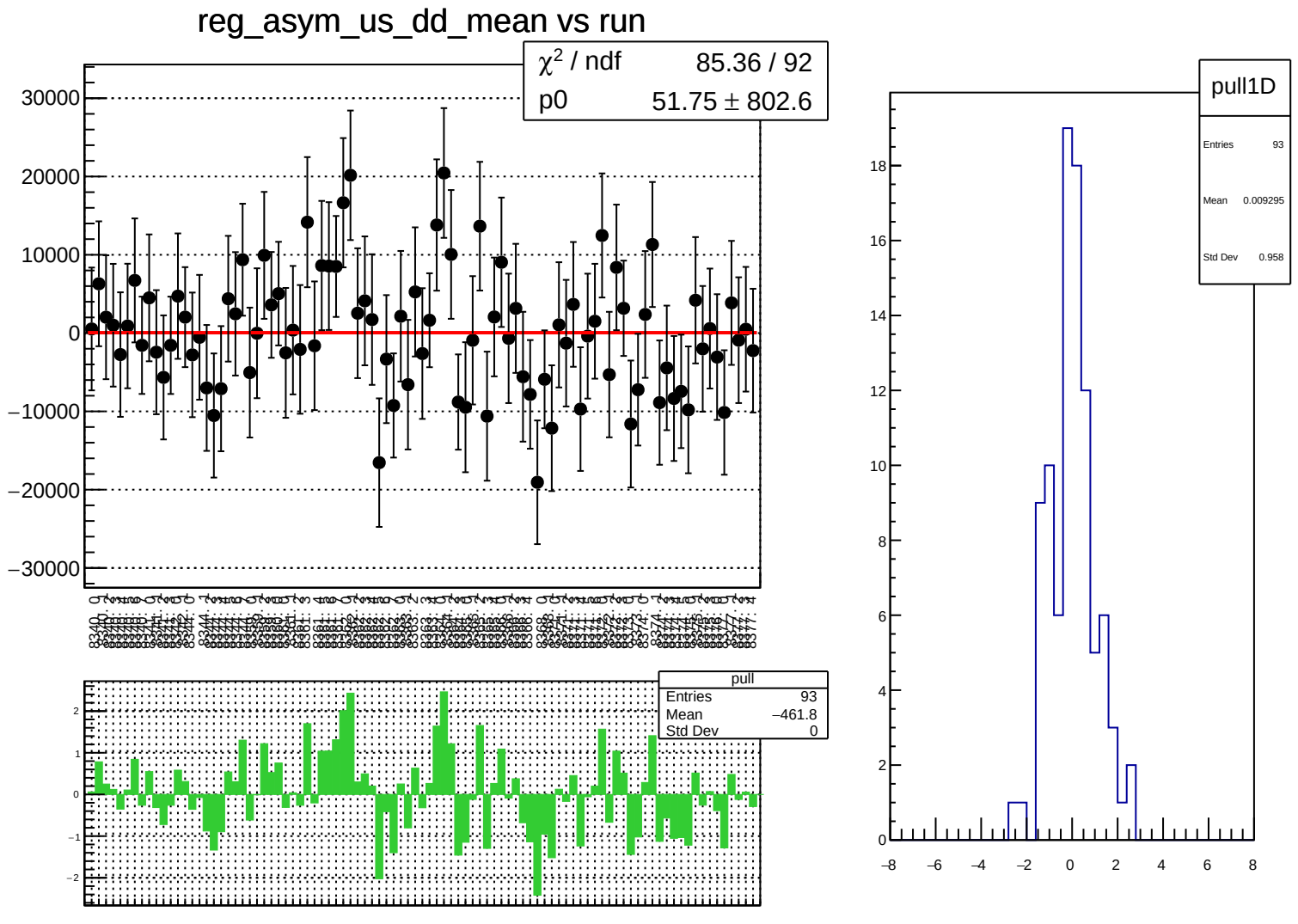

pull1D
Entries 93
Mean 0.02109
Std Dev 1.21

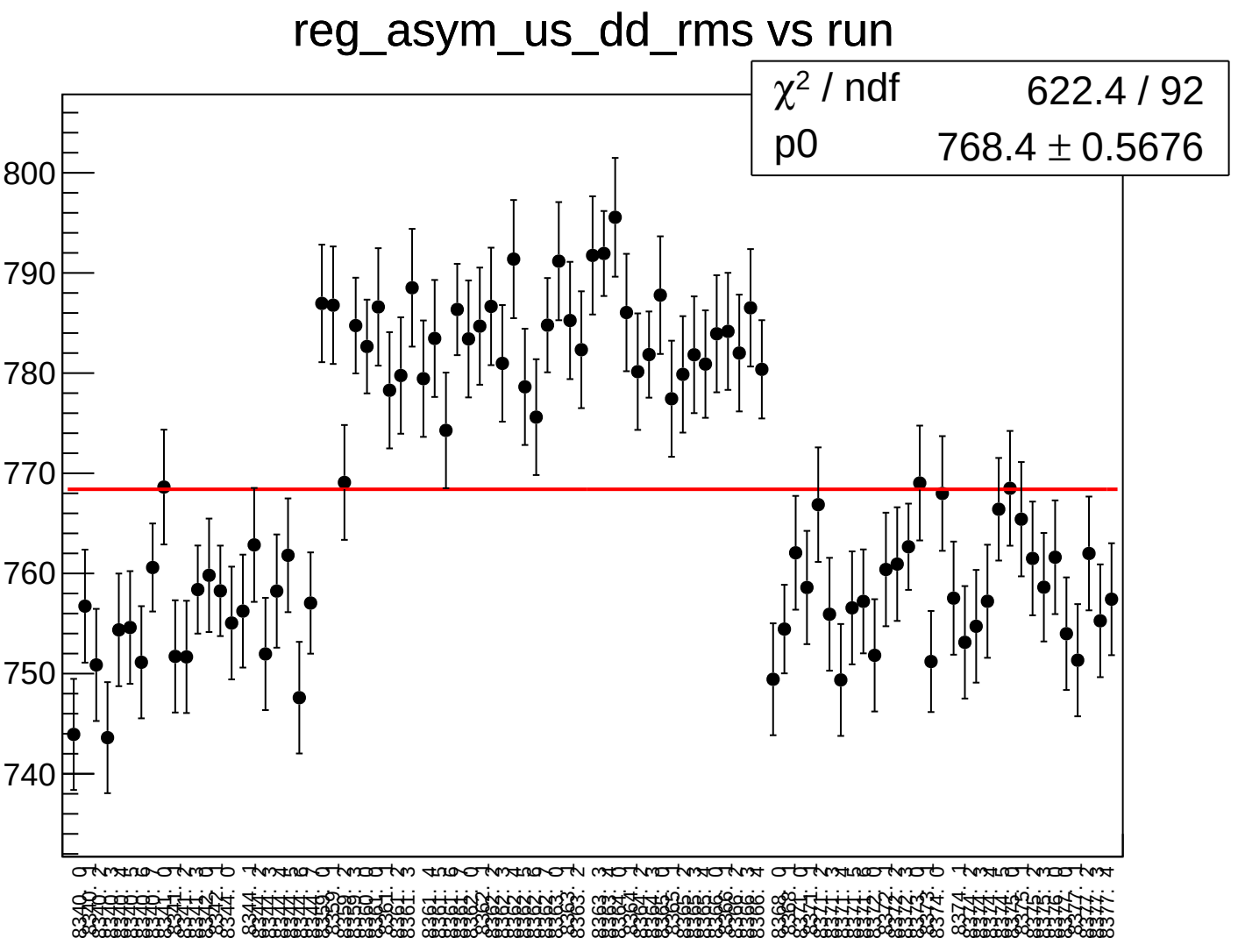

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 92
p0 31.15 ± 0.02394
55
50
45
40
35
30
25
20
15
10

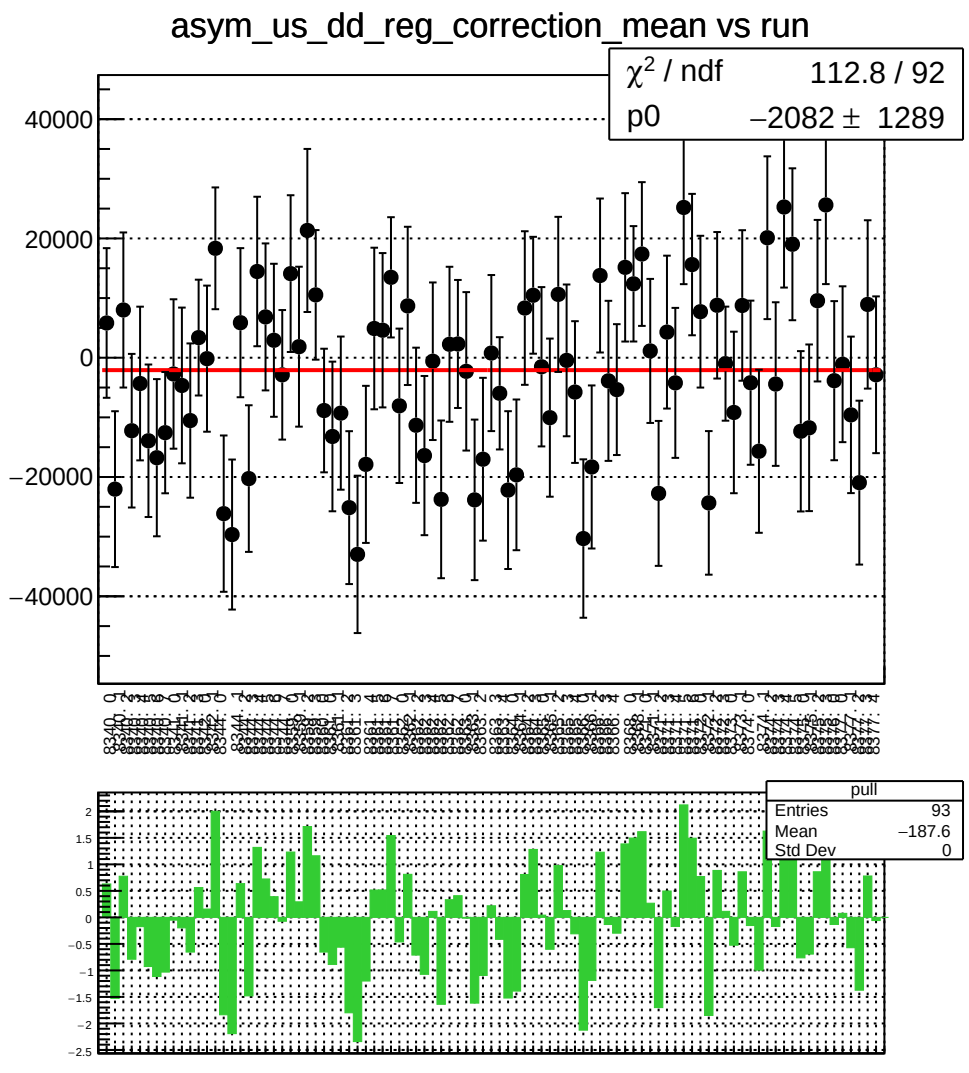

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 136.1 / 92
p0 −0.05223 ± 0.03385
pull
Entries 93
Mean −36.04
Std Dev 0

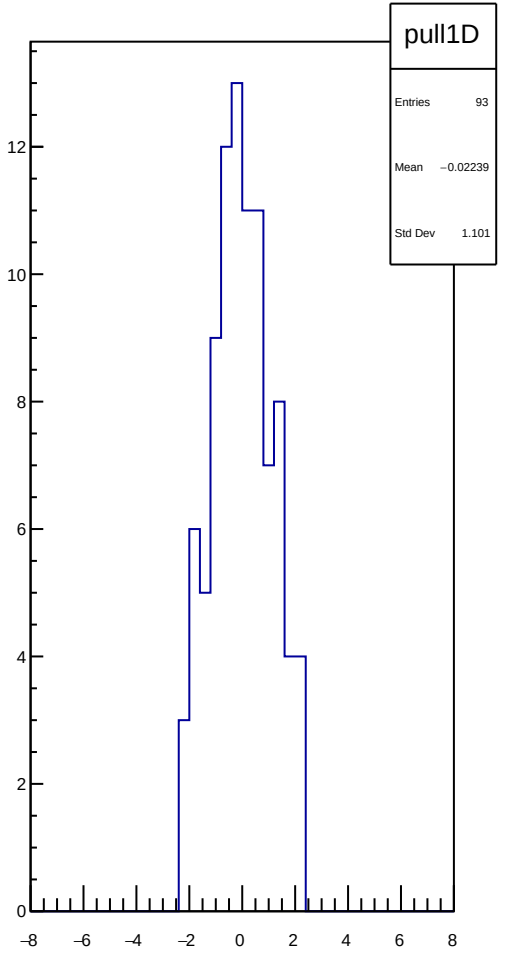

pull1D
Entries 93
Mean 0.02109
Std Dev 1.21

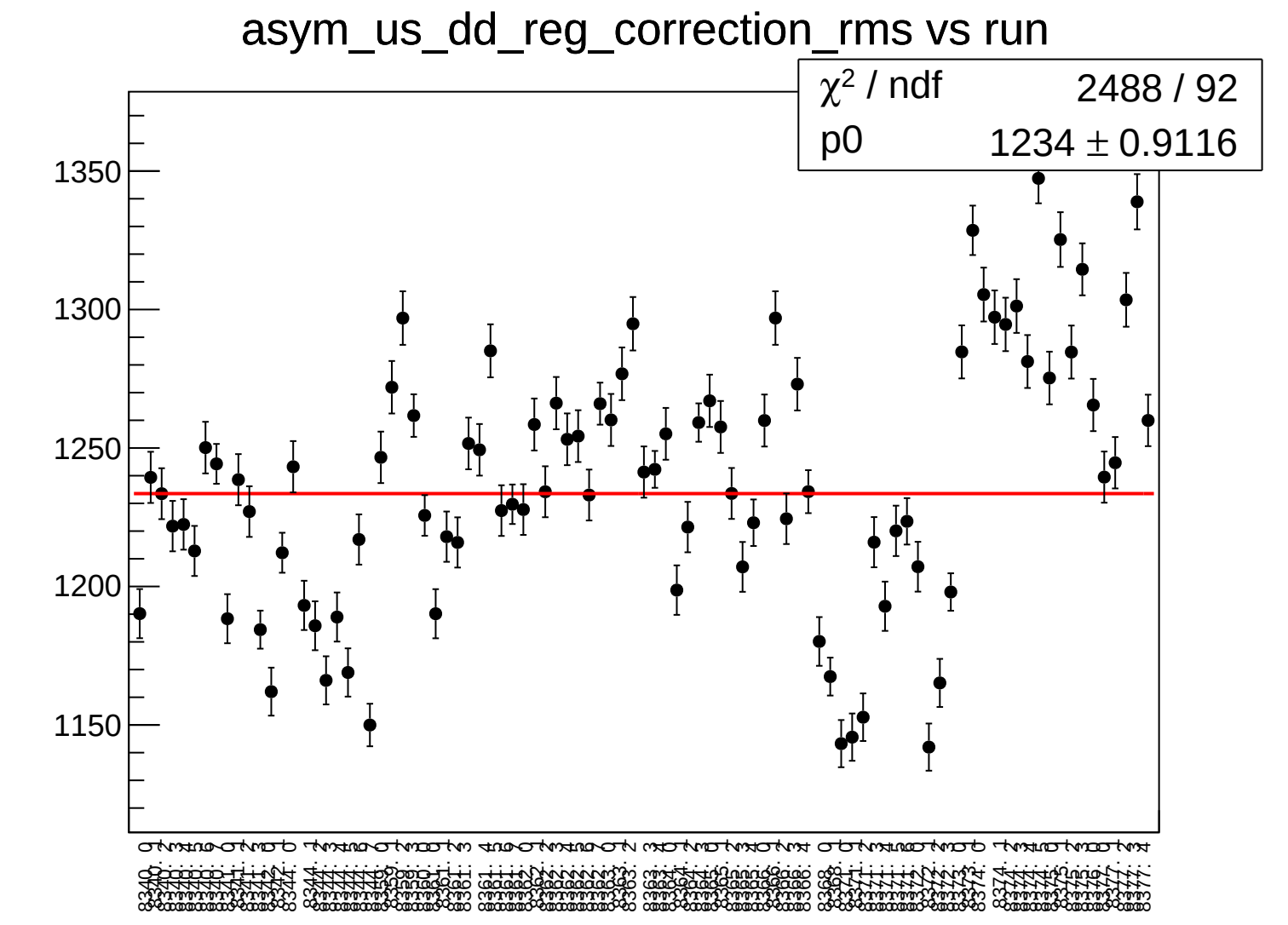

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.404e+05 / 92
p0 31.15 ± 0.02394
55
50
45
40
35
30
25
20
15
10

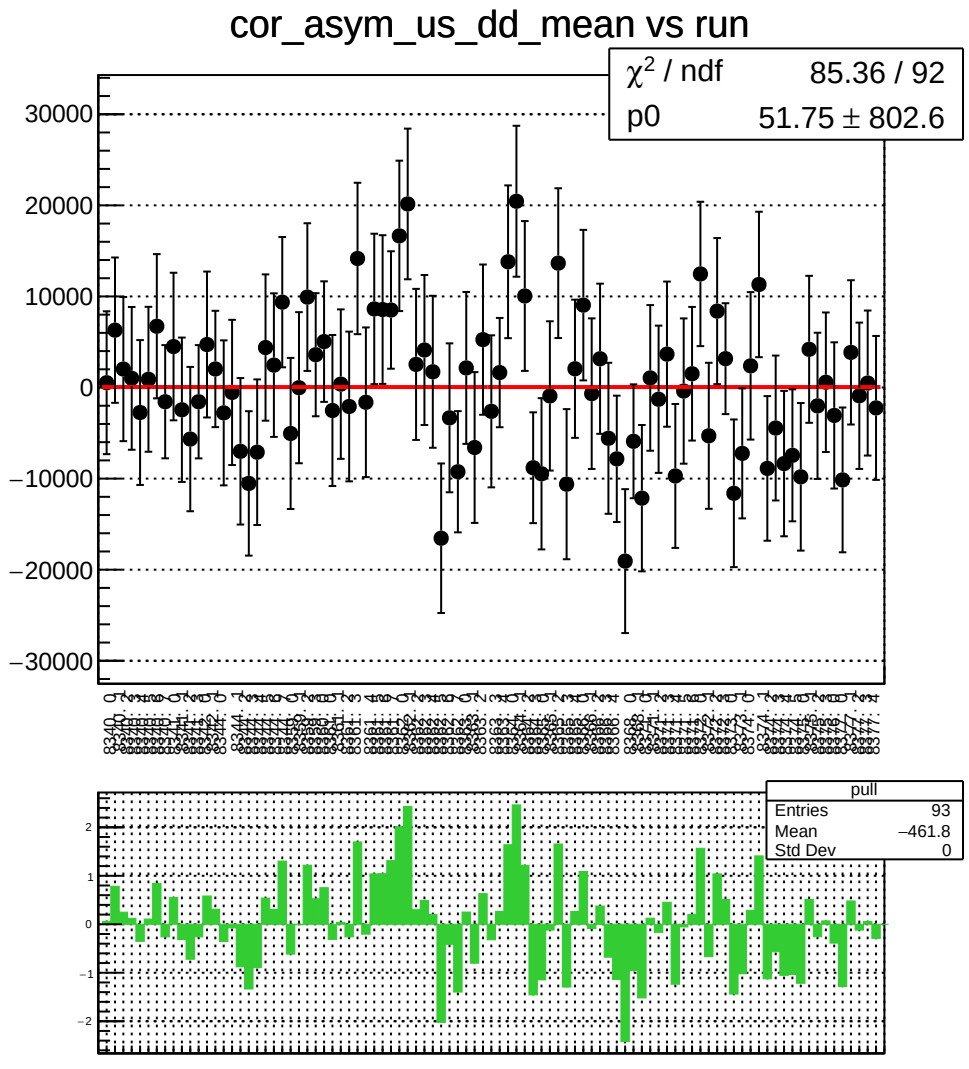

reg_asym_us_dd_mean vs run
χ² / ndf 85.36 / 92
p0 51.75 ± 802.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −461.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009295
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

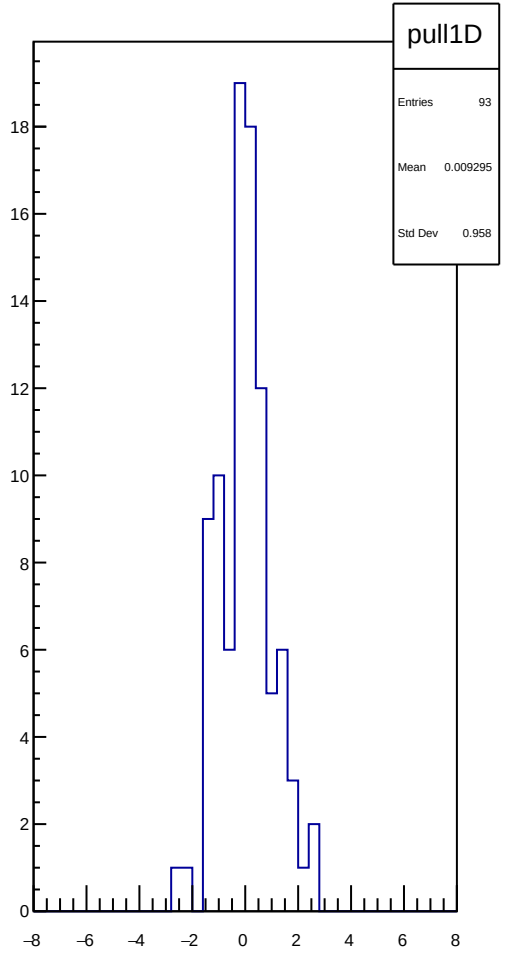

reg_asym_us_dd_rms vs run
χ² / ndf 622.4 / 92
p0 768.4 ± 0.5676
800
790
780
770
760
750
740

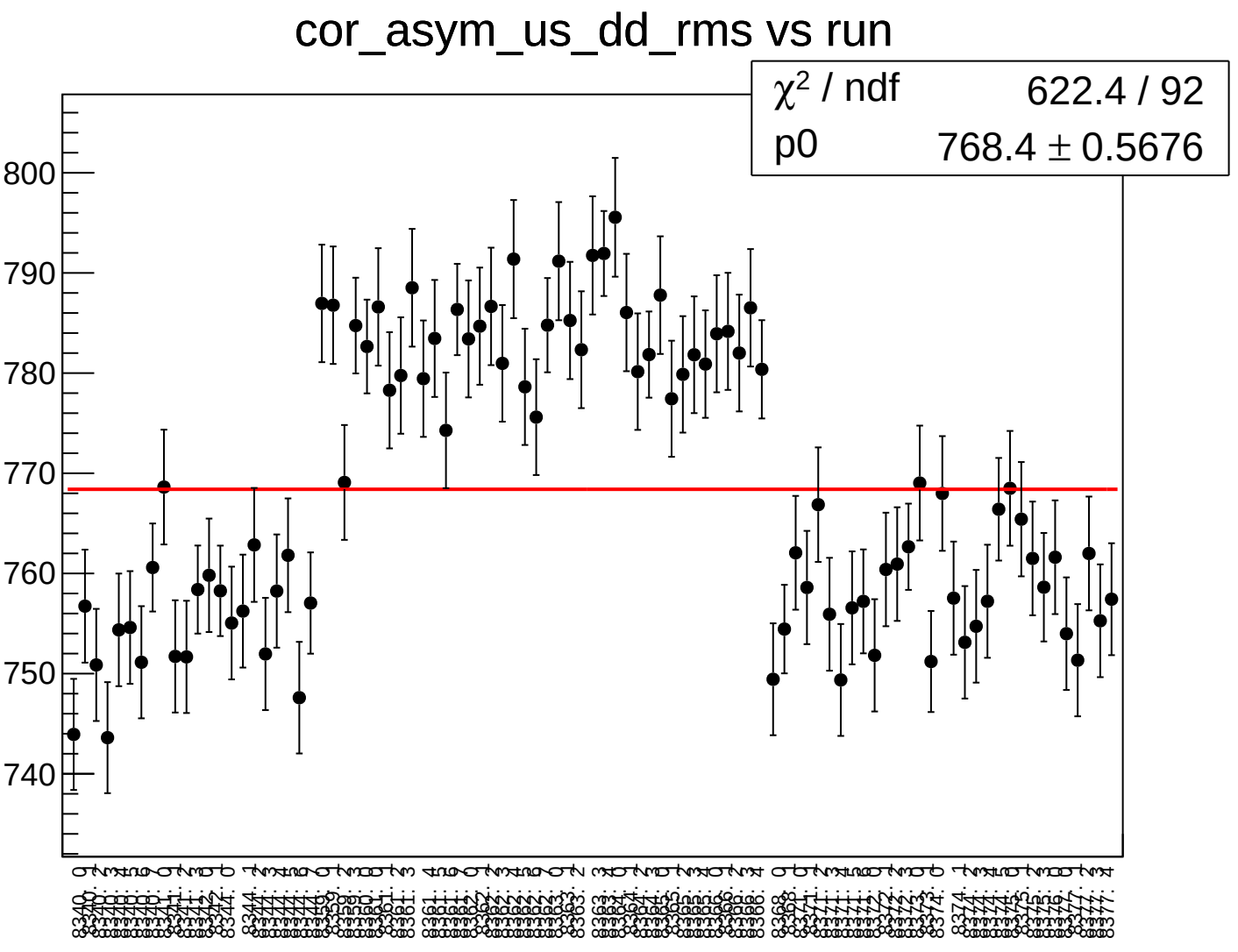

asym_us_dd_reg_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2082 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −187.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

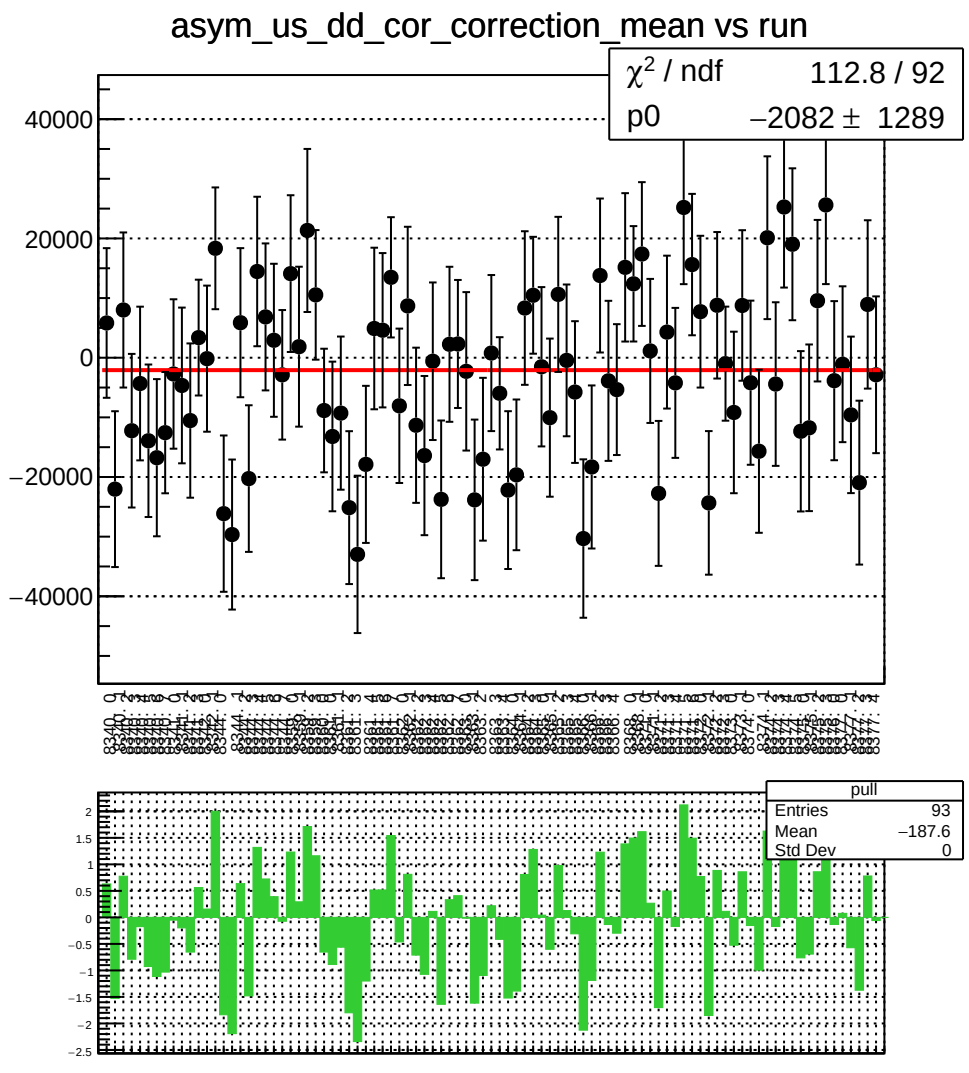

pull1D
Entries 93
Mean −0.02239
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

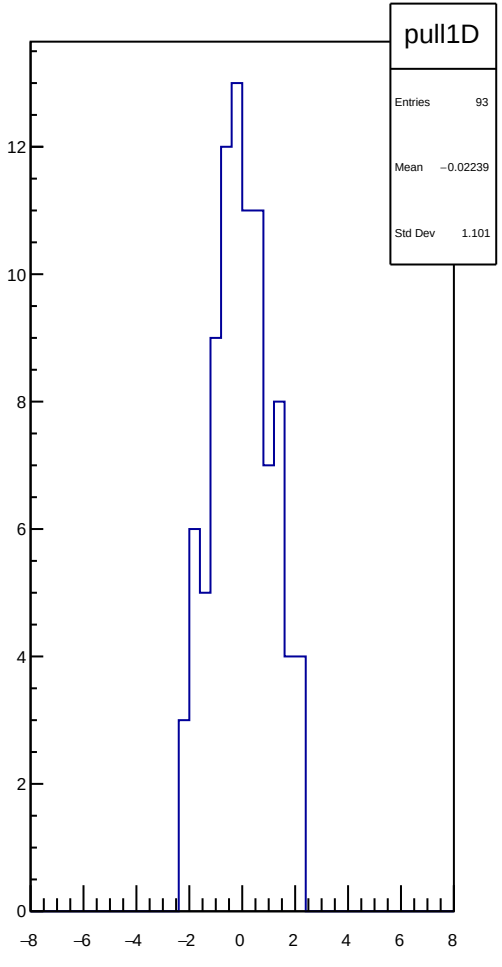

asym_us_dd_reg_correction_rms vs run
χ² / ndf 2488 / 92
p0 1234 ± 0.9116
1350
1300
1250
1200
1150

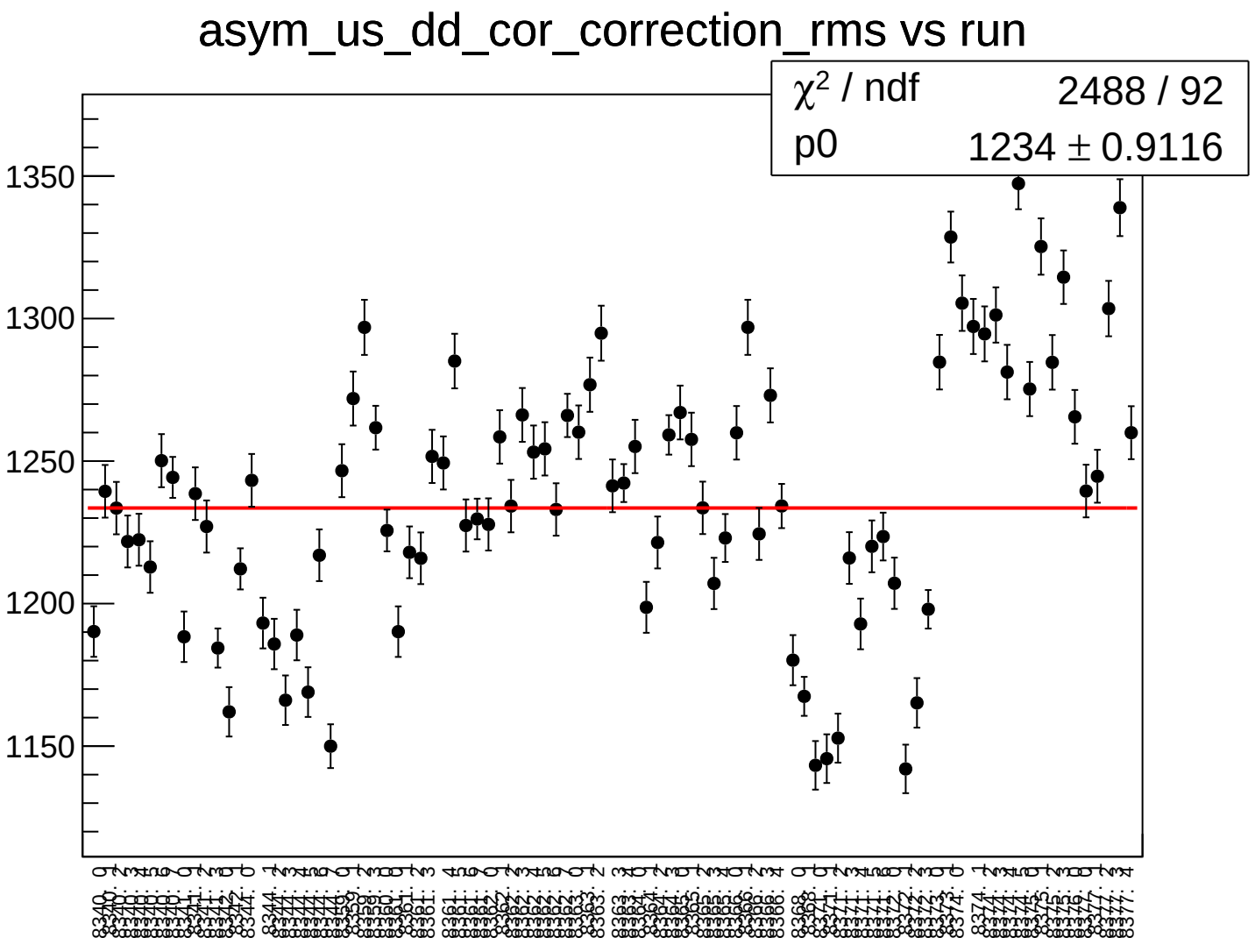

cor_asym_us_dd_mean vs run
χ² / ndf 85.36 / 92
p0 51.75 ± 802.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −461.8
Std Dev 0
2
1
0
−1
−2

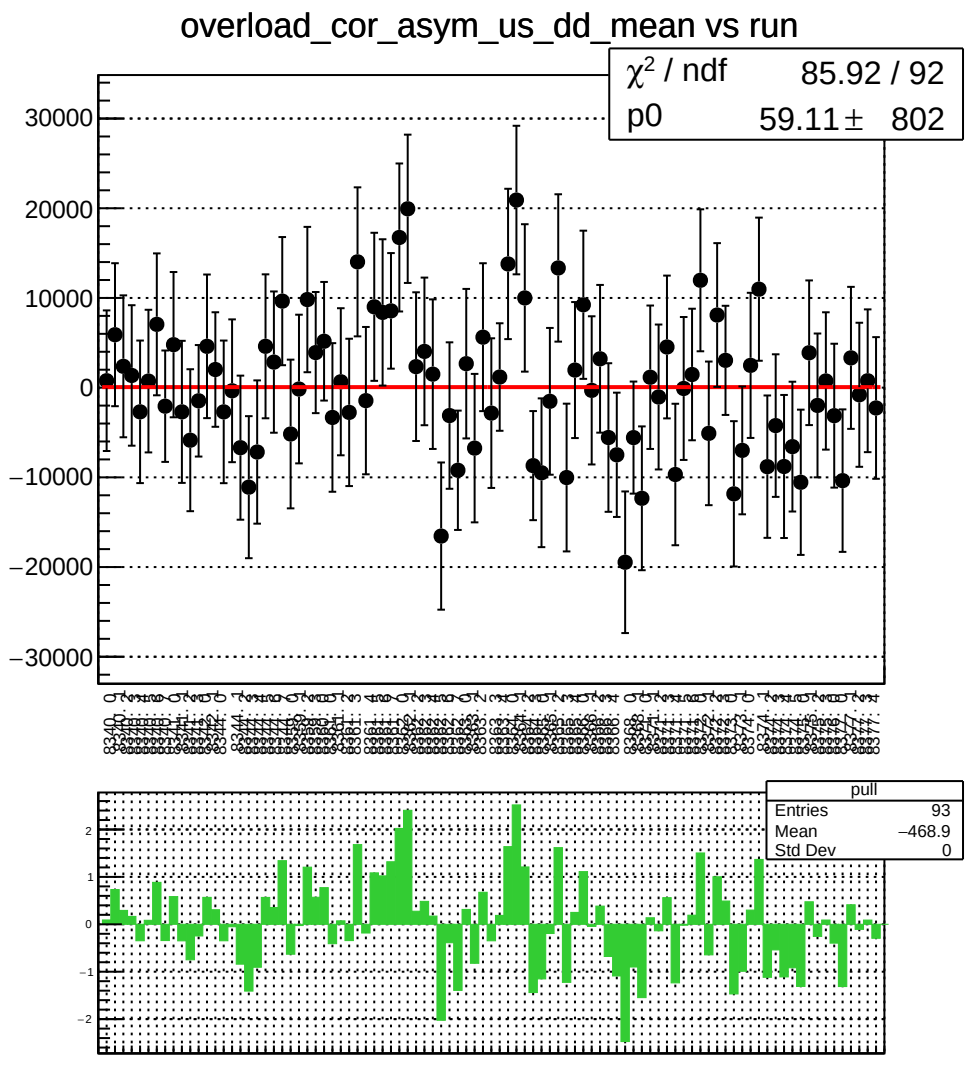

pull1D
Entries 93
Mean 0.009295
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

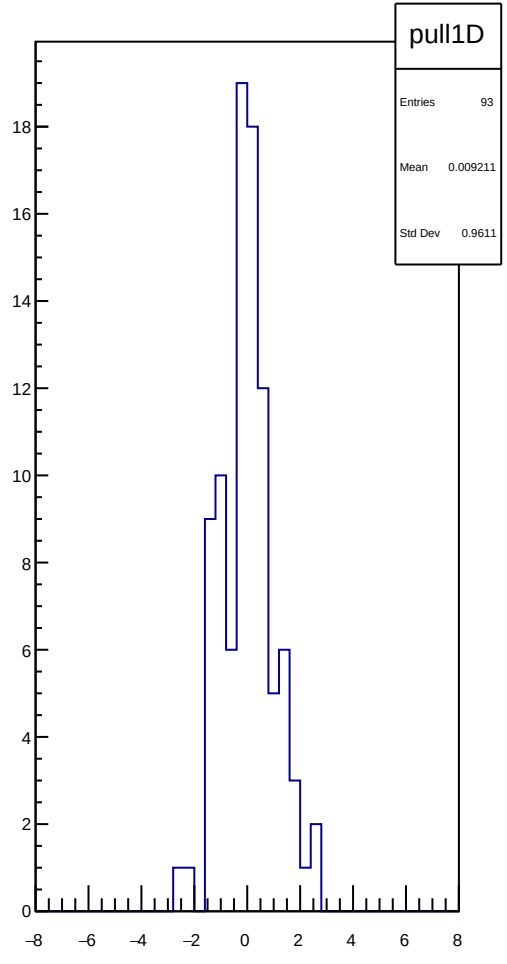

cor_asym_us_dd_rms vs run
χ² / ndf 622.4 / 92
p0 768.4 ± 0.5676
800
790
780
770
760
750
740

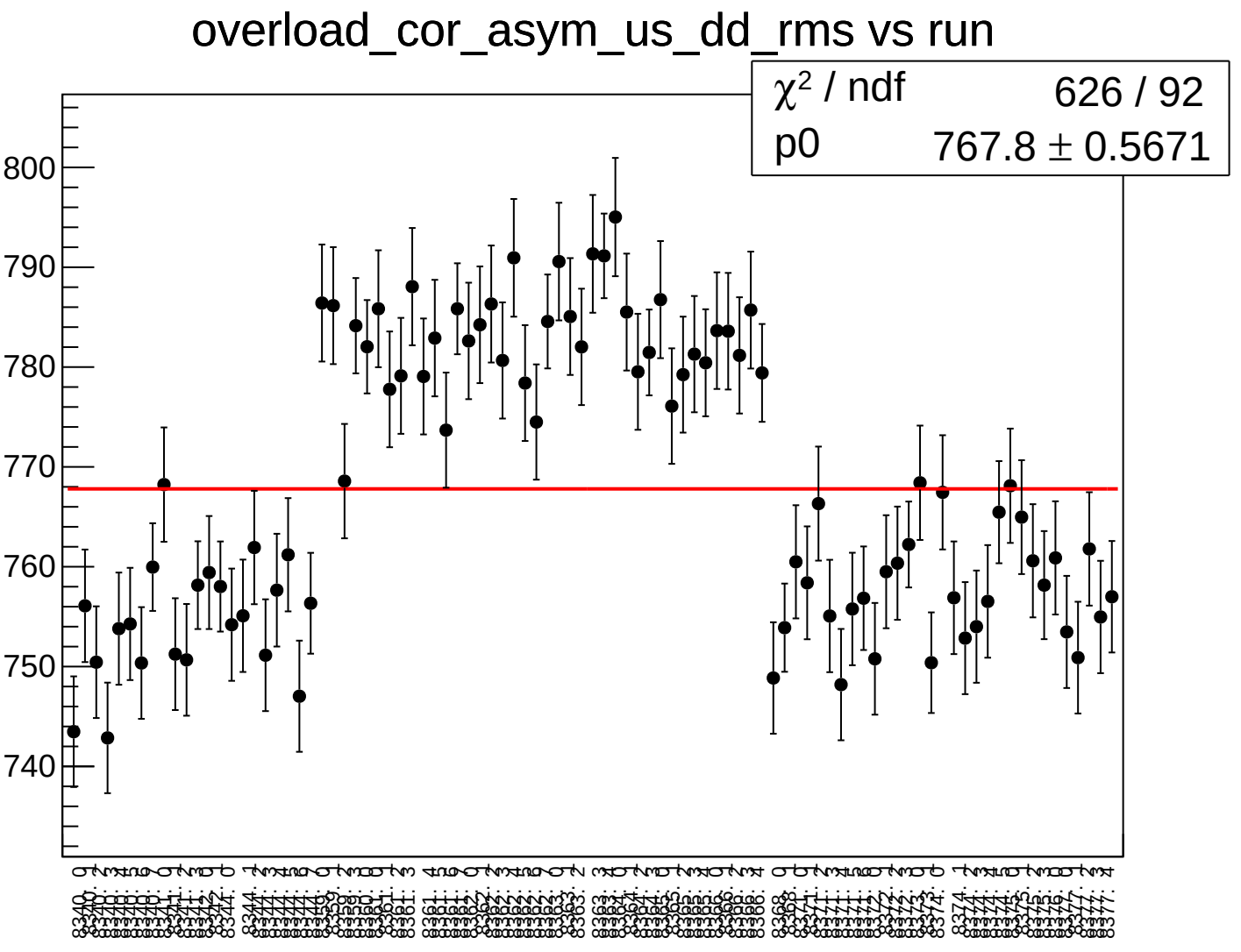

asym_us_dd_cor_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2082 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −187.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

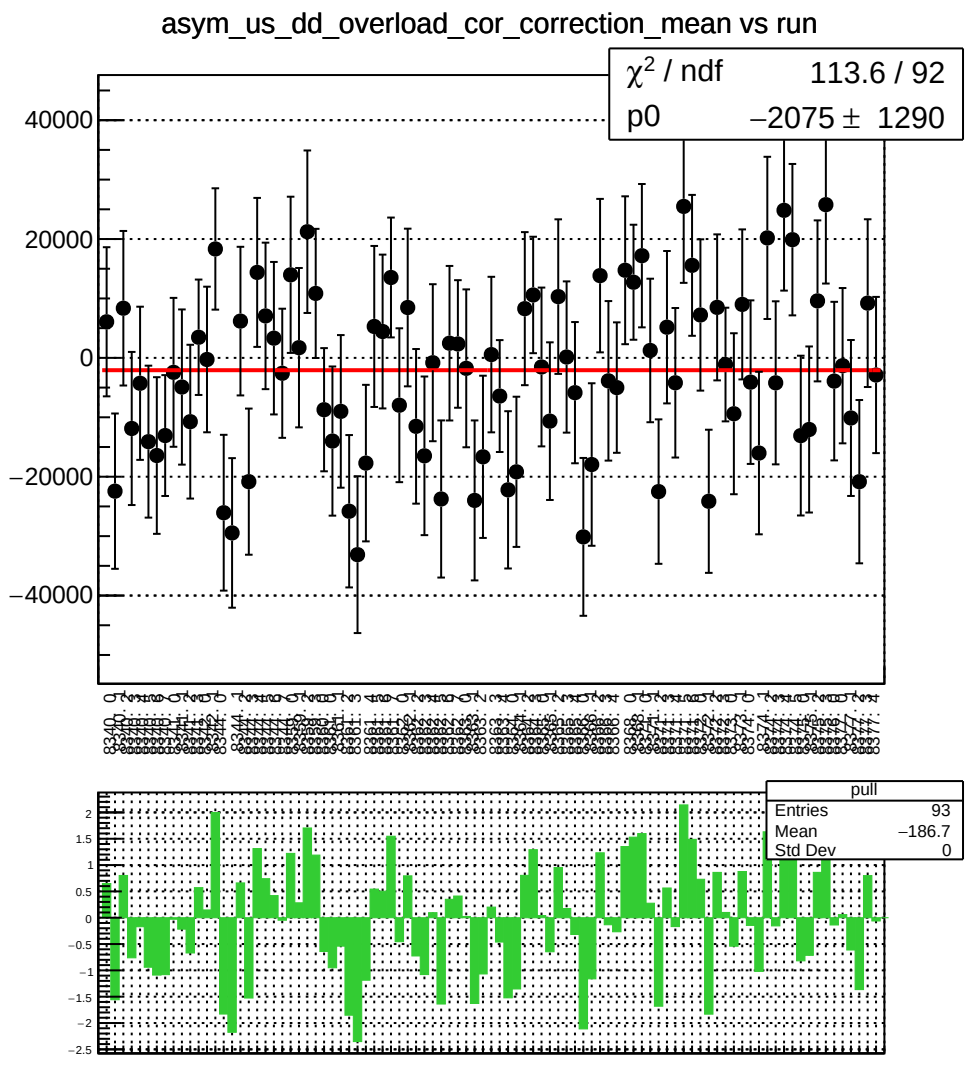

pull1D
Entries 93
Mean −0.02239
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

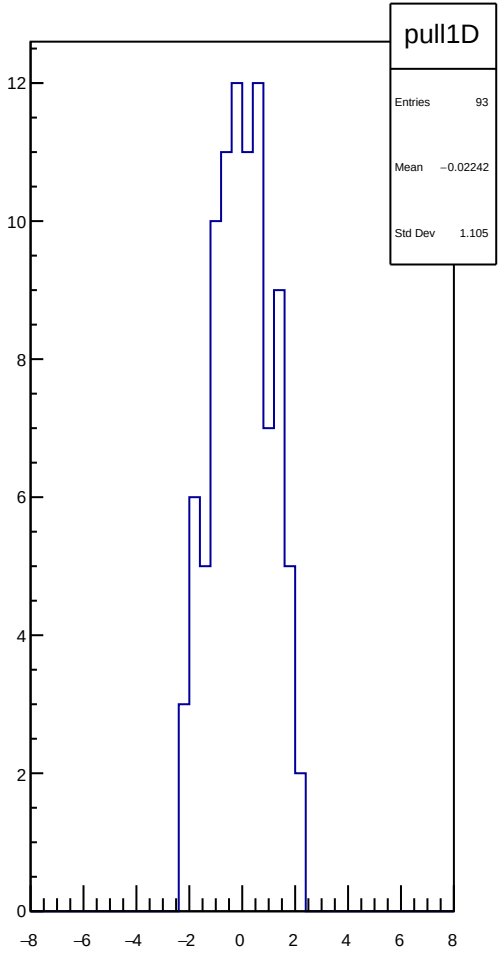

asym_us_dd_cor_correction_rms vs run
χ² / ndf 2488 / 92
p0 1234 ± 0.9116
1350
1300
1250
1200
1150

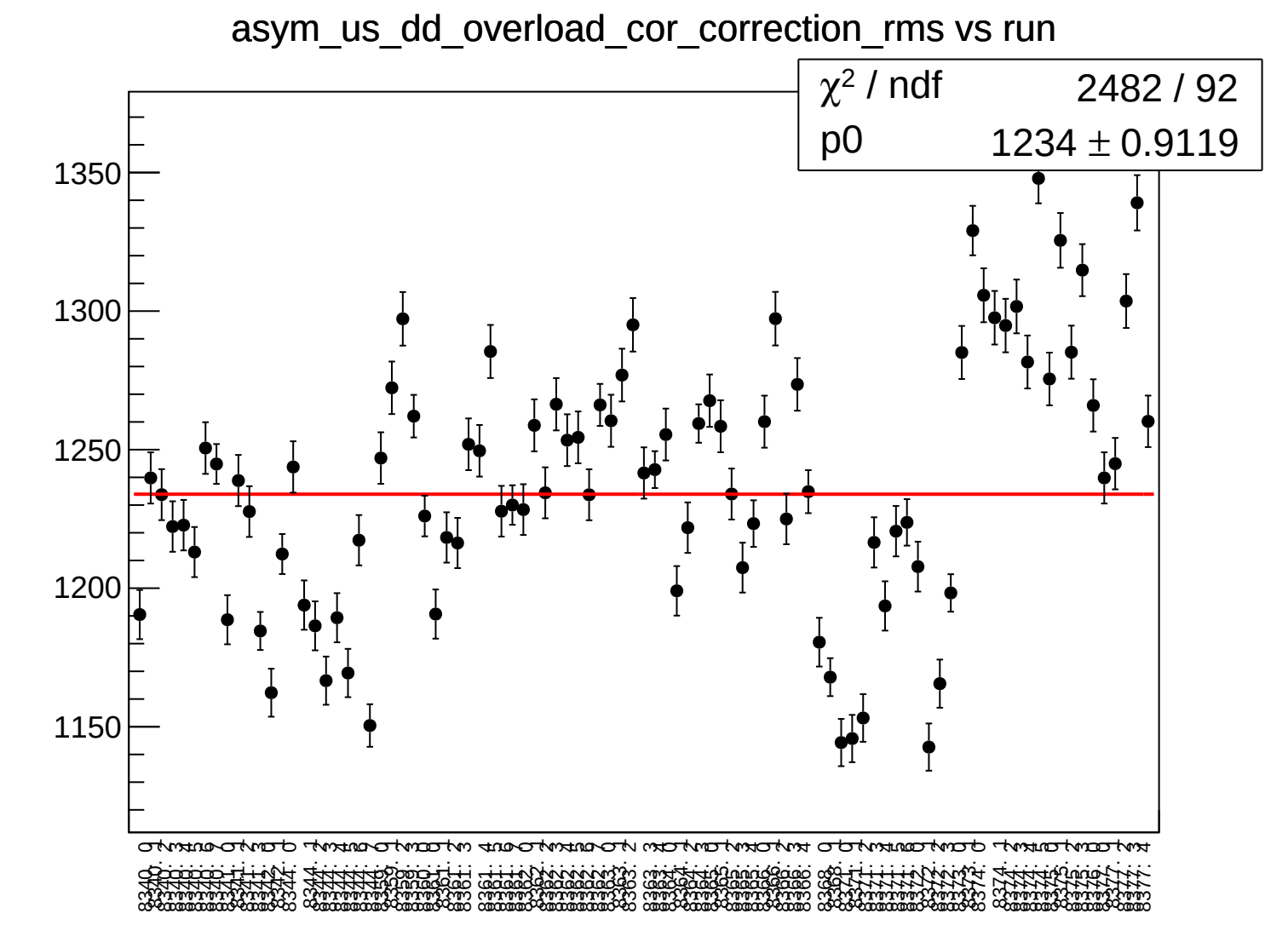

overload_cor_asym_us_dd_mean vs run
χ² / ndf 85.92 / 92
p0 59.11 ± 802
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −468.9
Std Dev 0
2
1
0
−1
−2

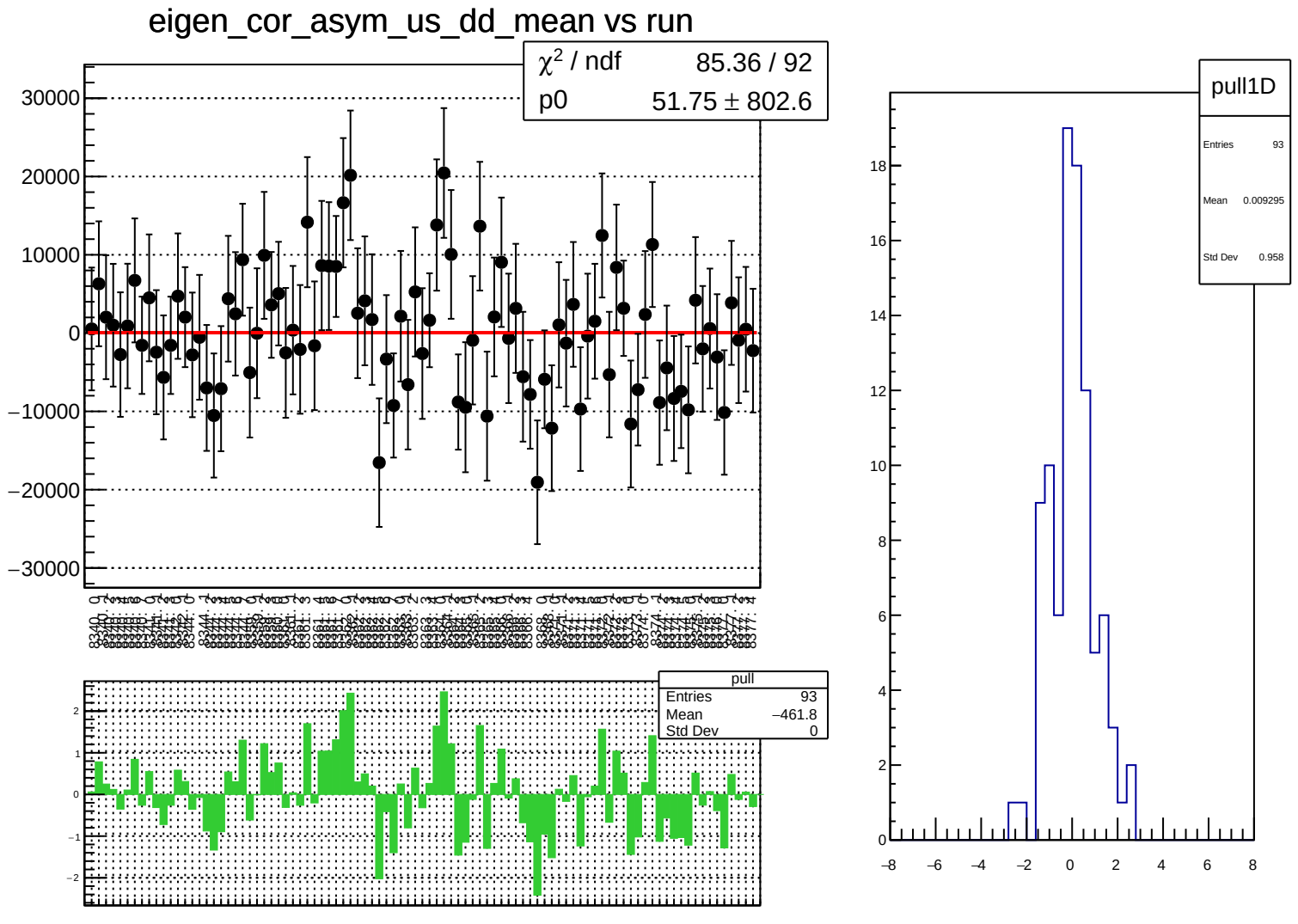

pull1D
Entries 93
Mean 0.009211
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

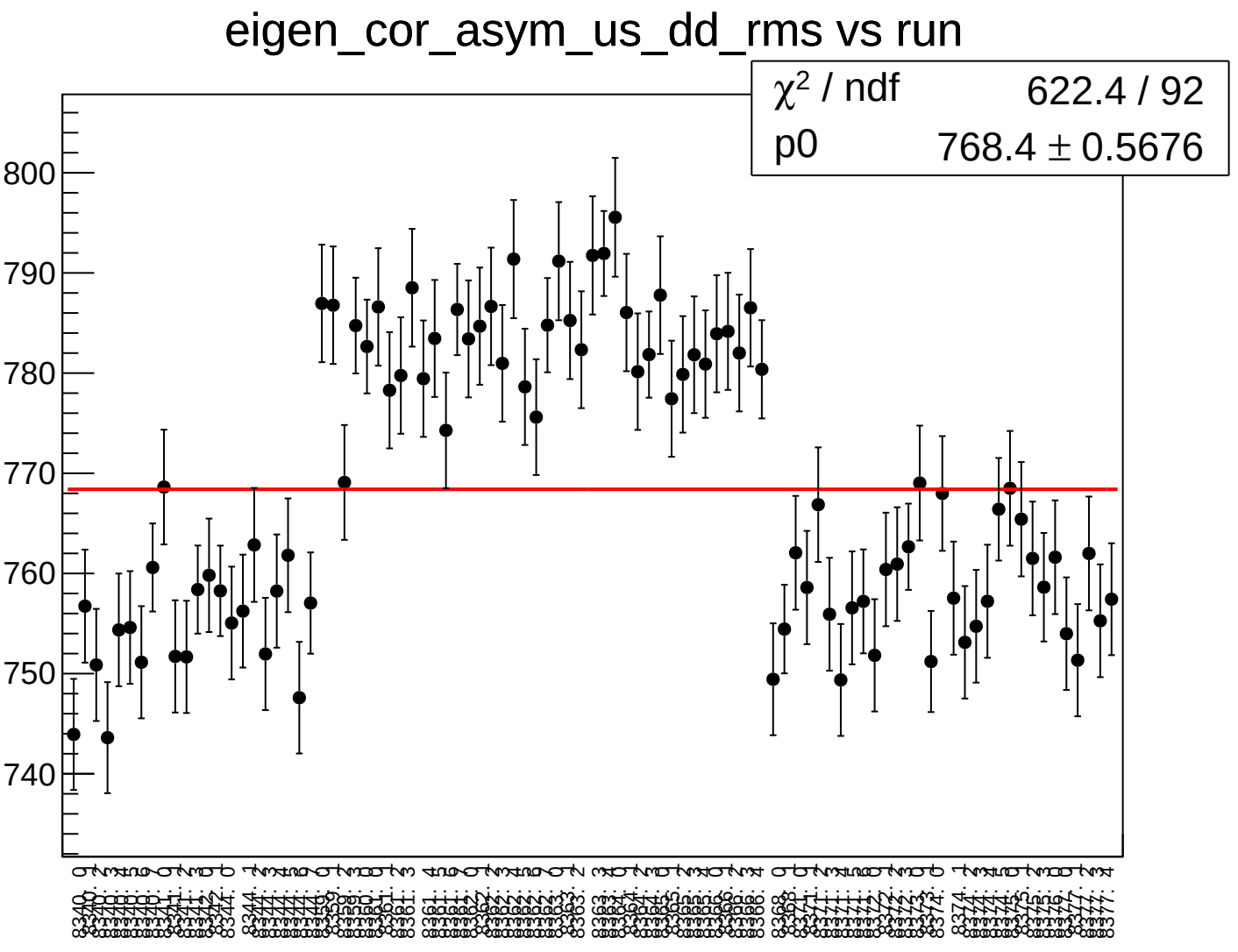

overload_cor_asym_us_dd_rms vs run
χ² / ndf 626 / 92
p0 767.8 ± 0.5671
800
790
780
770
760
750
740

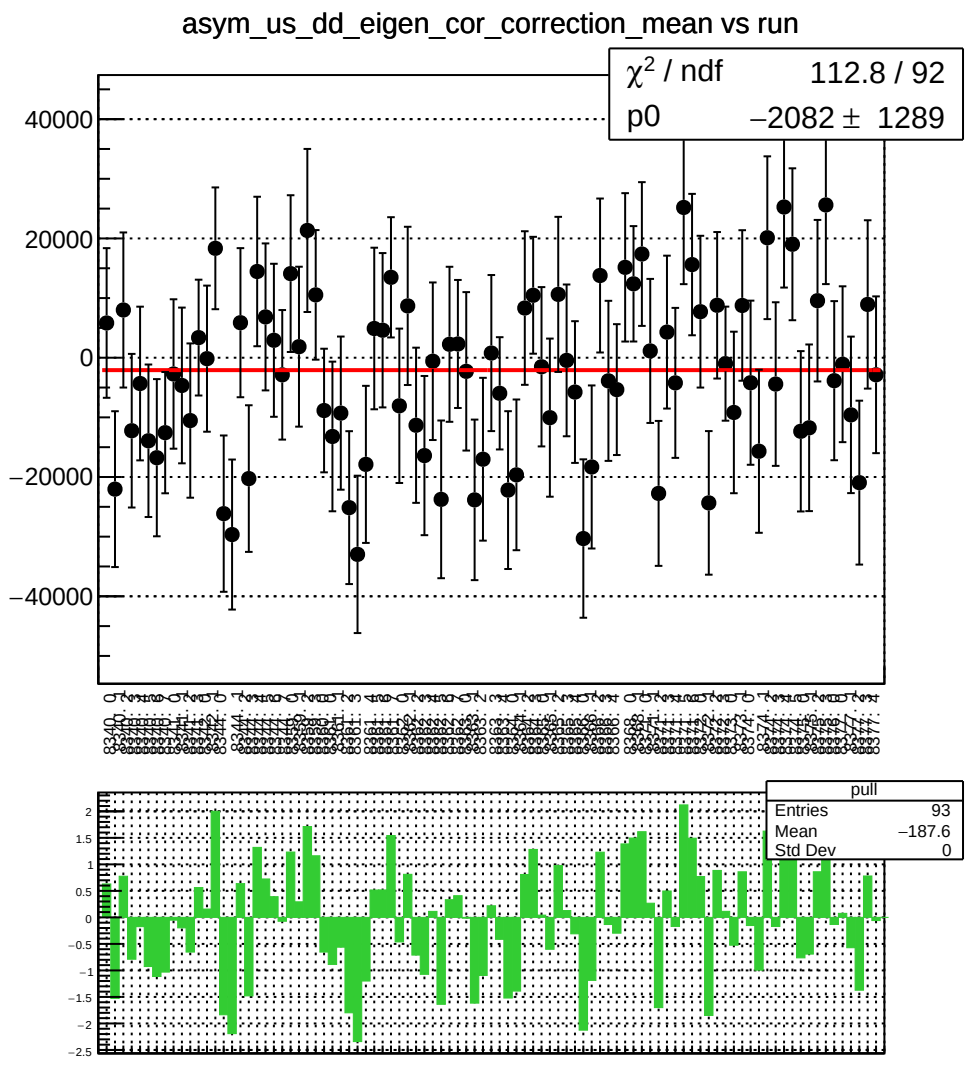

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 113.6 / 92
p0 −2075 ± 1290
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −186.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

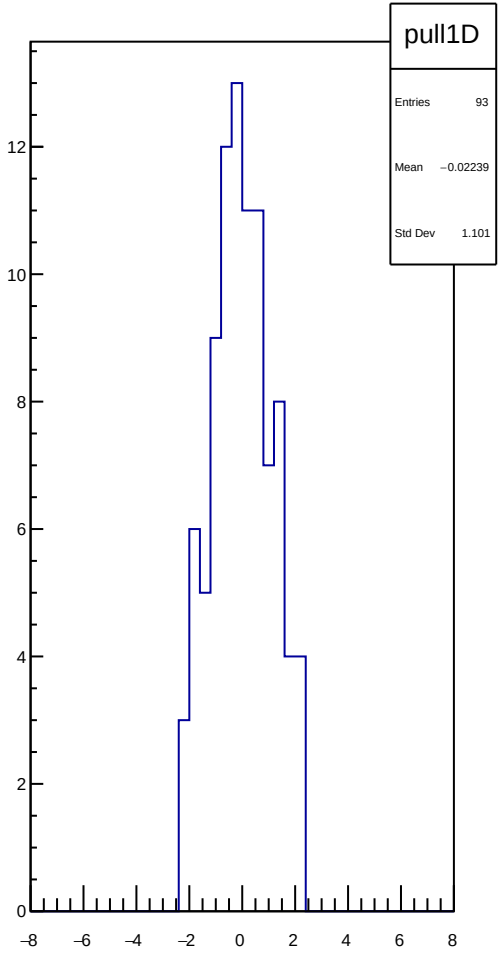

pull1D
Entries 93
Mean −0.02242
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

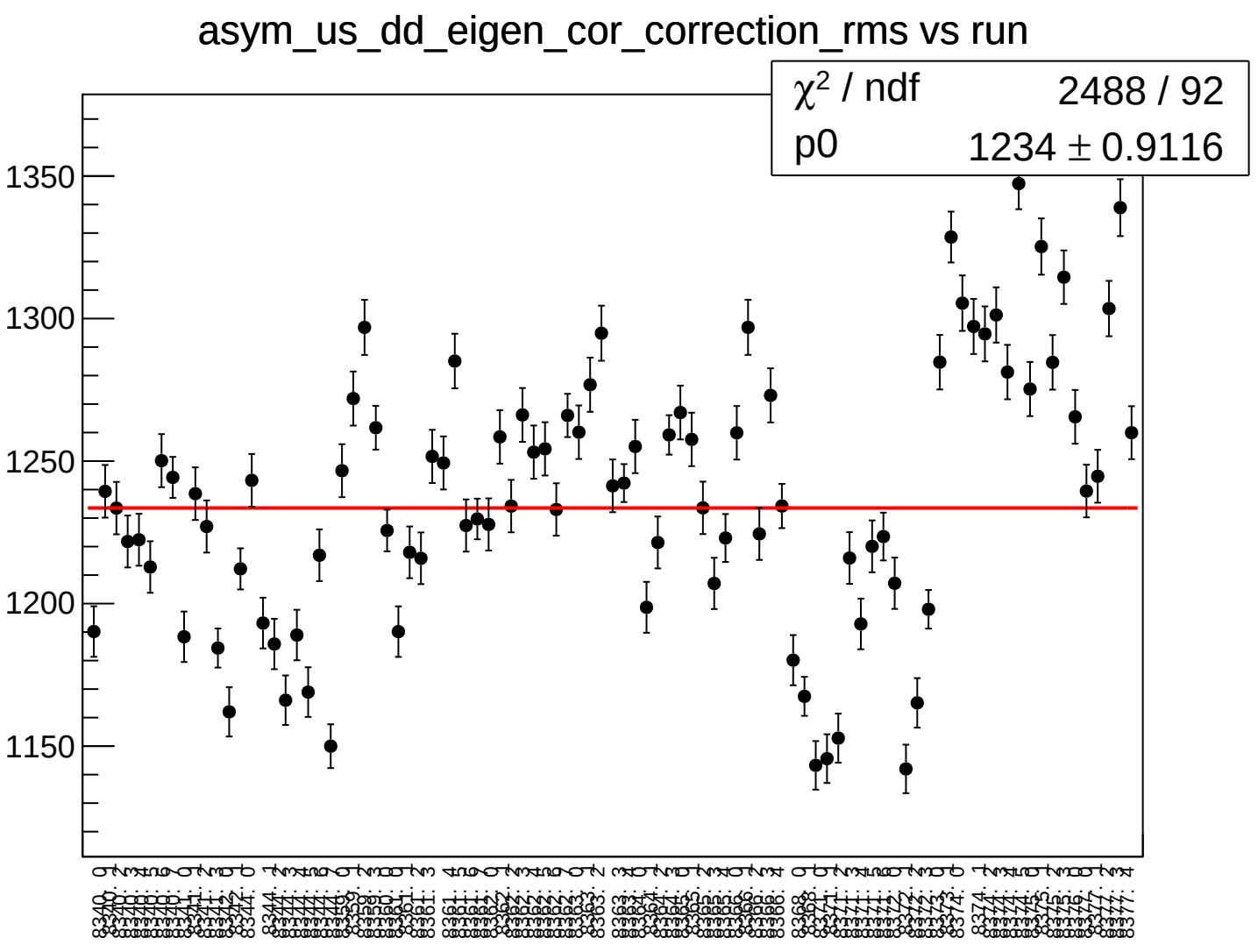

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 2482 / 92
p0 1234 ± 0.9119
1350
1300
1250
1200
1150

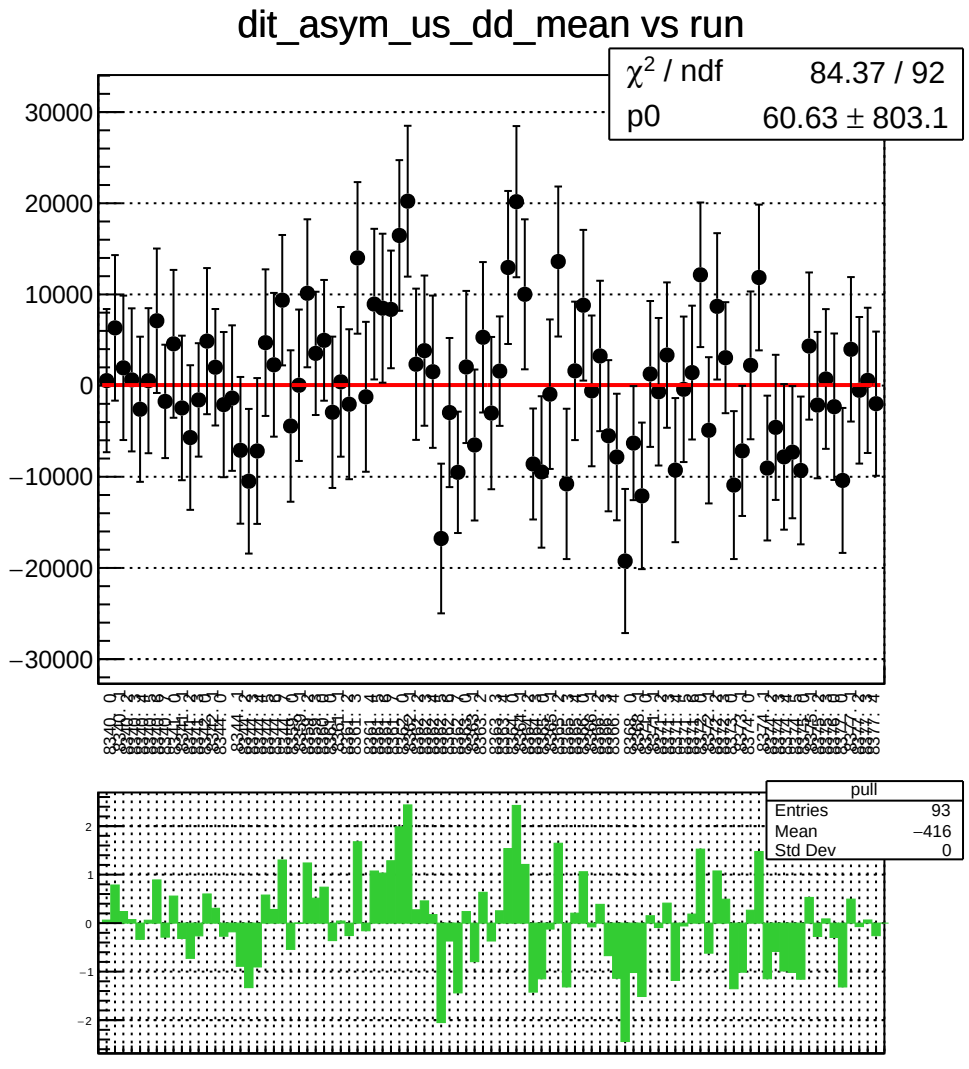

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 85.36 / 92
p0 51.75 ± 802.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −461.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009295
Std Dev 0.958
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

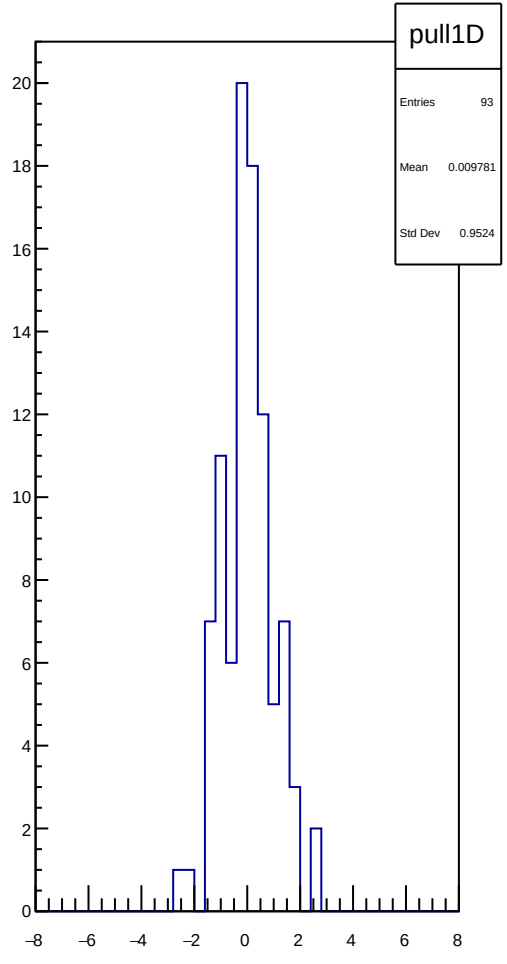

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 622.4 / 92
p0 768.4 ± 0.5676
800
790
780
770
760
750
740

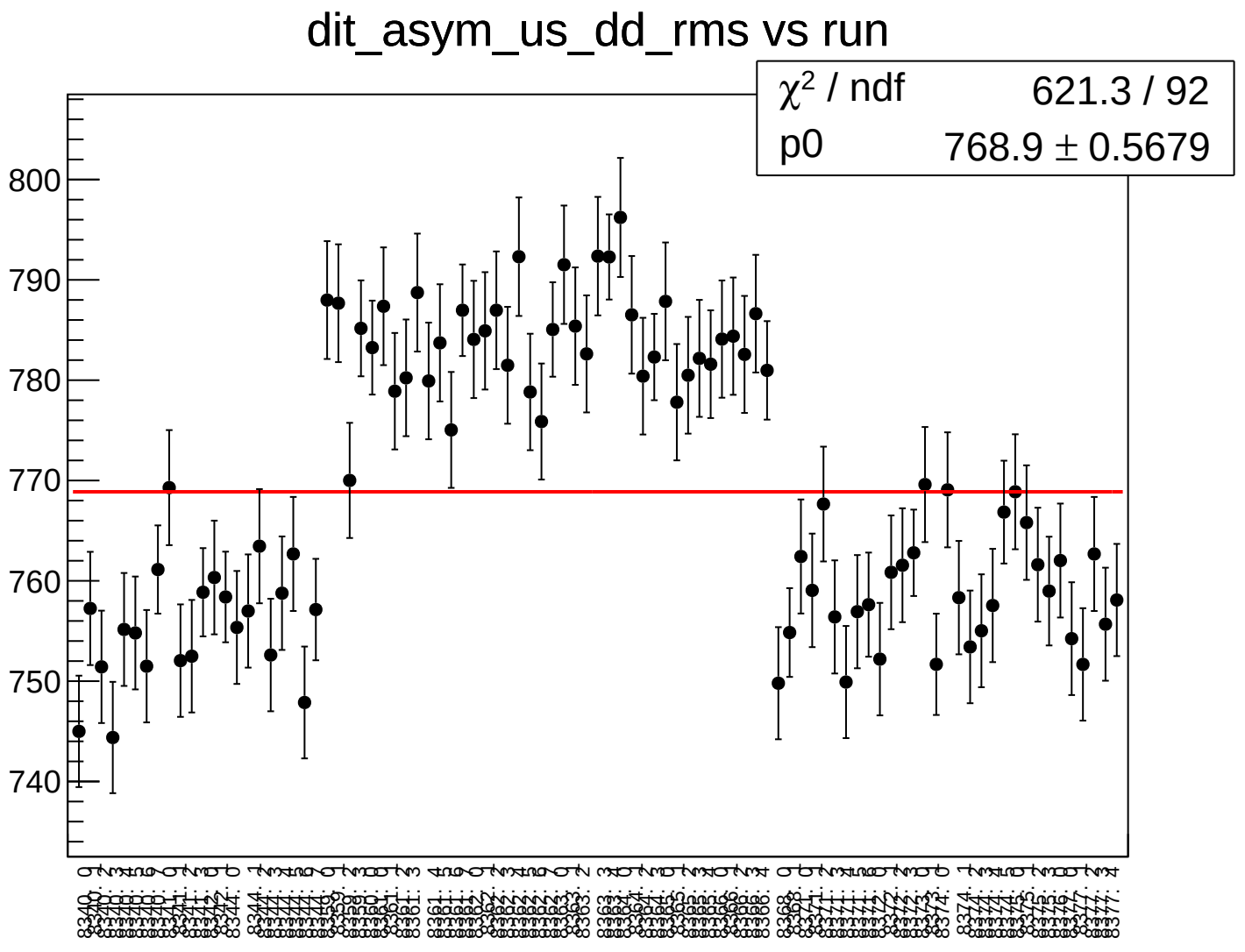

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2082 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −187.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

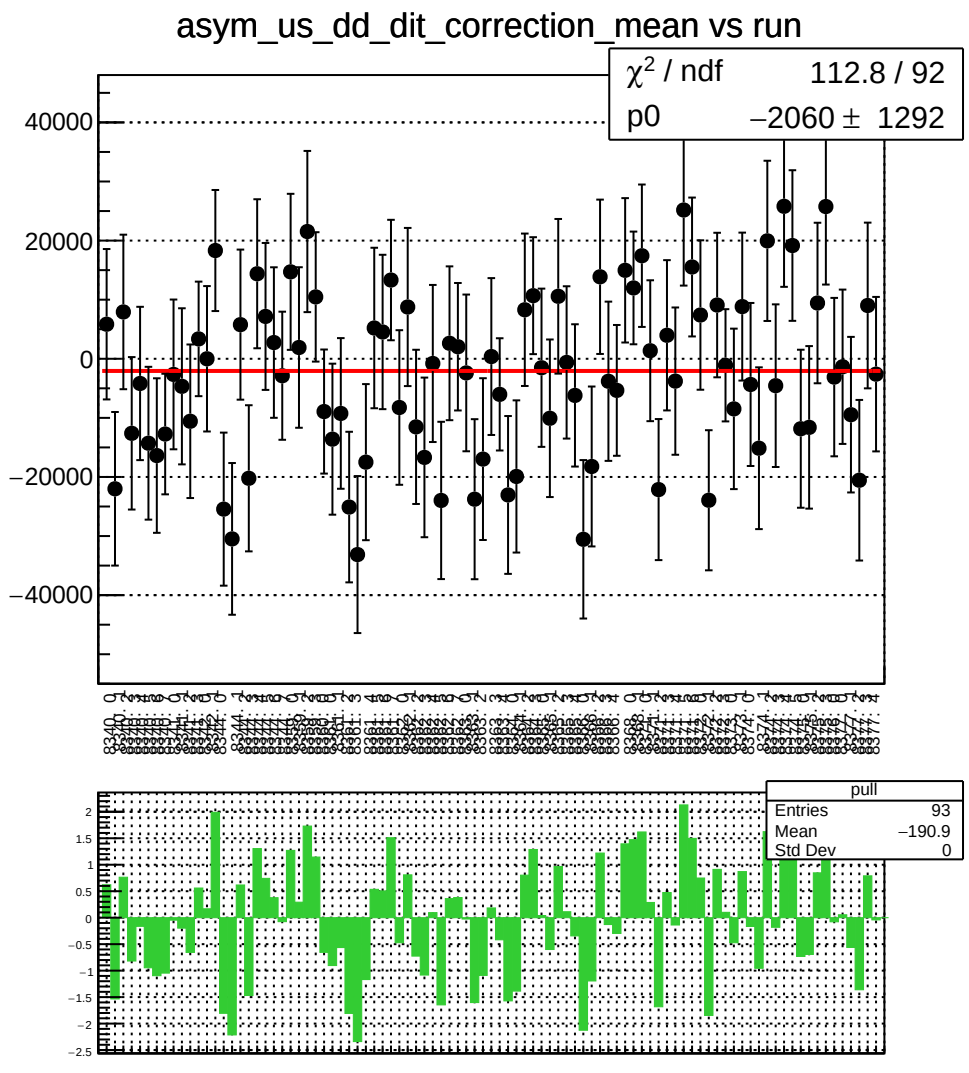

pull1D
Entries 93
Mean −0.02239
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

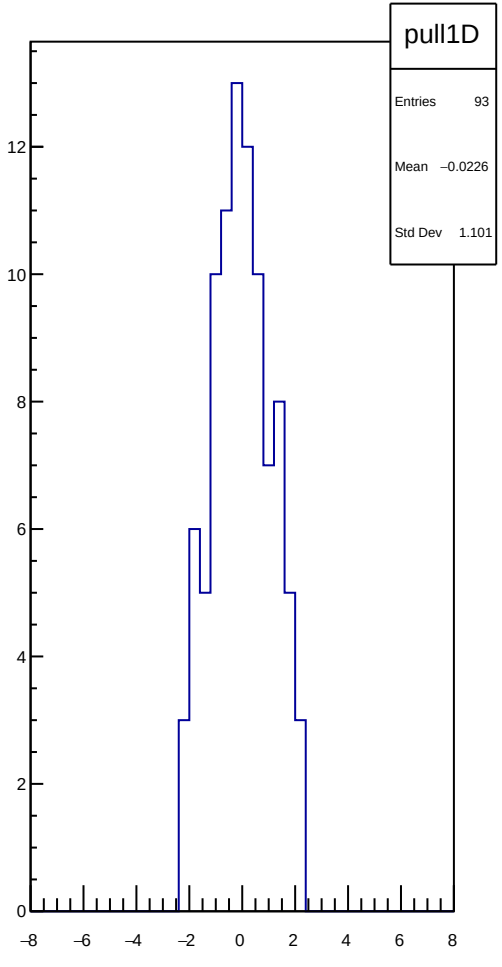

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 2488 / 92
p0 1234 ± 0.9116
1350
1300
1250
1200
1150

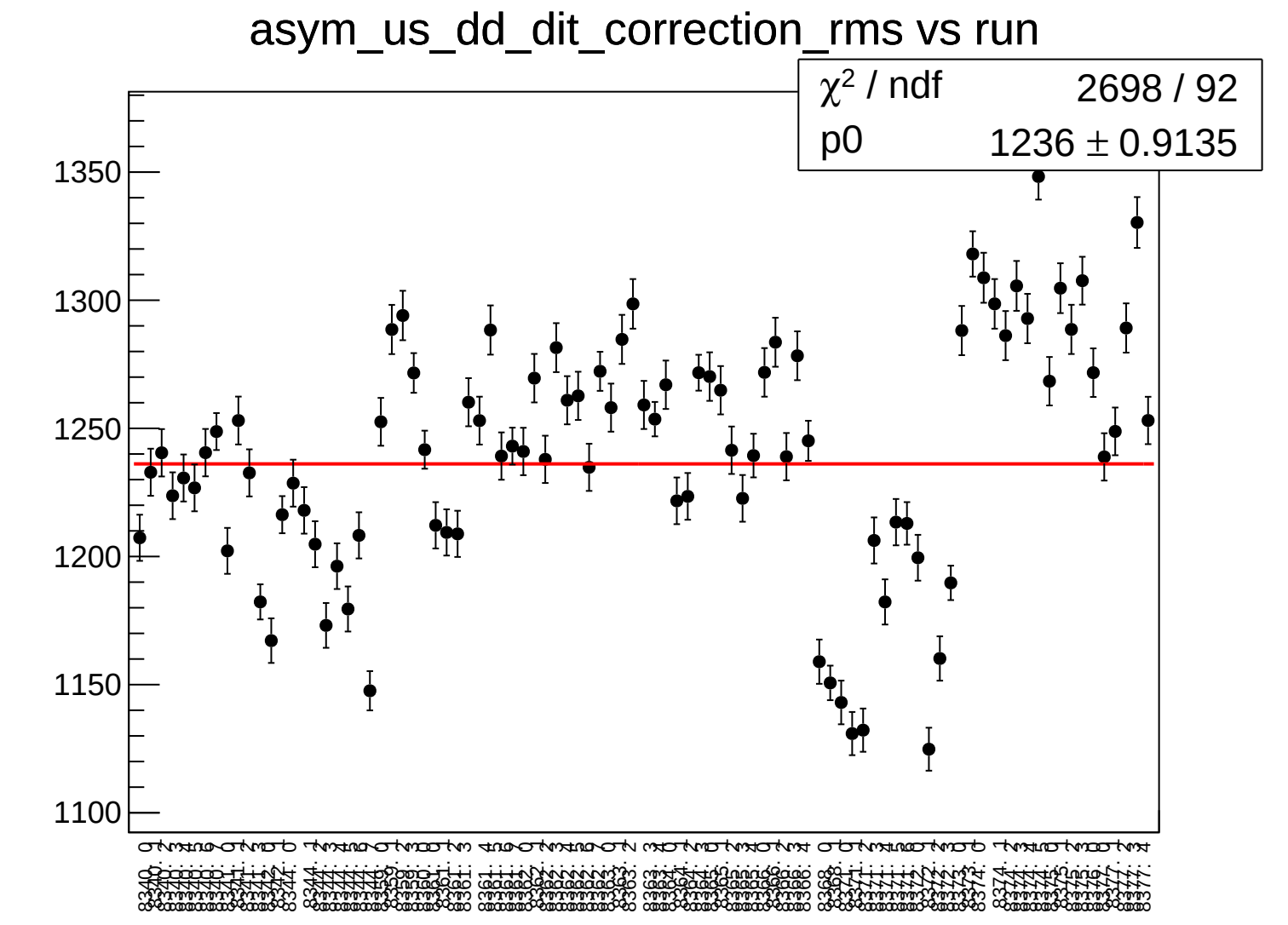

dit_asym_us_dd_mean vs run
χ² / ndf 84.37 / 92
p0 60.63 ± 803.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −416
Std Dev 0
2
1
0
−1
−2

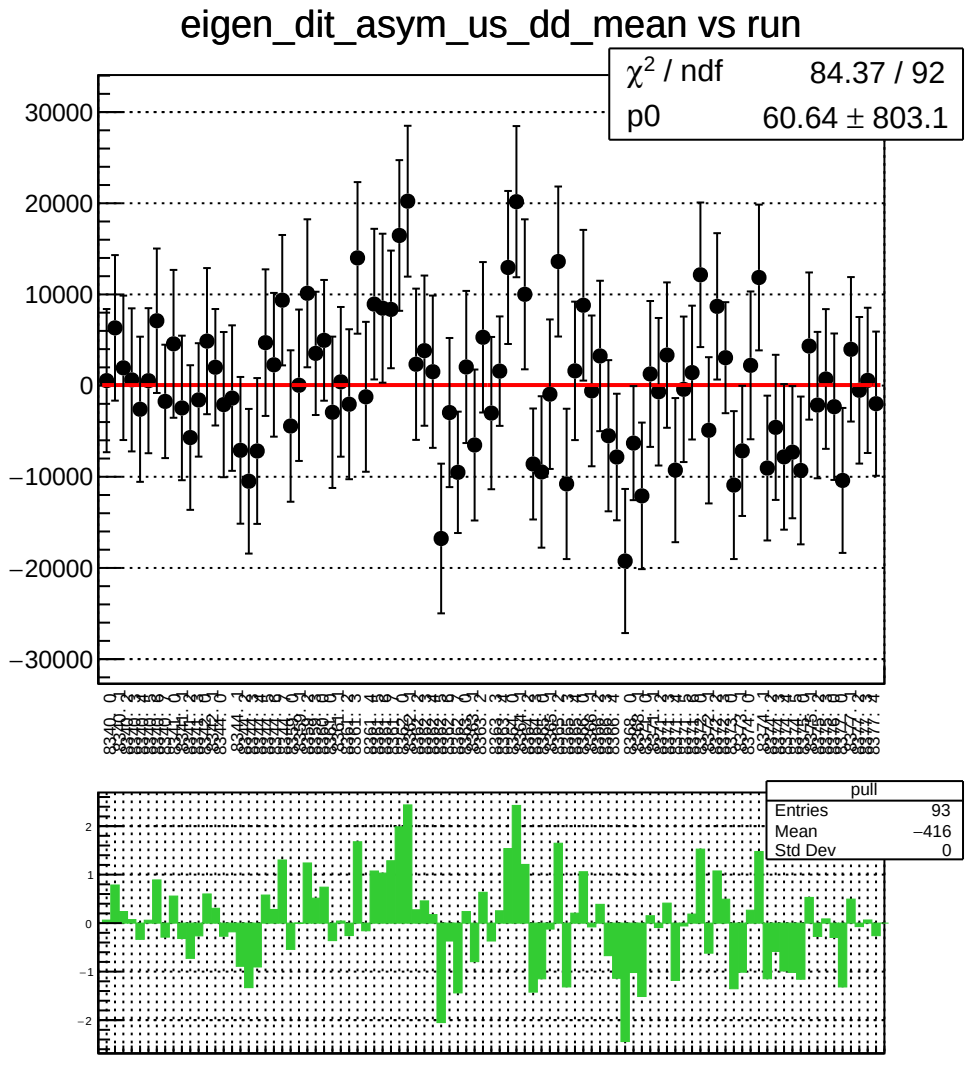

pull1D
Entries 93
Mean 0.009781
Std Dev 0.9524
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

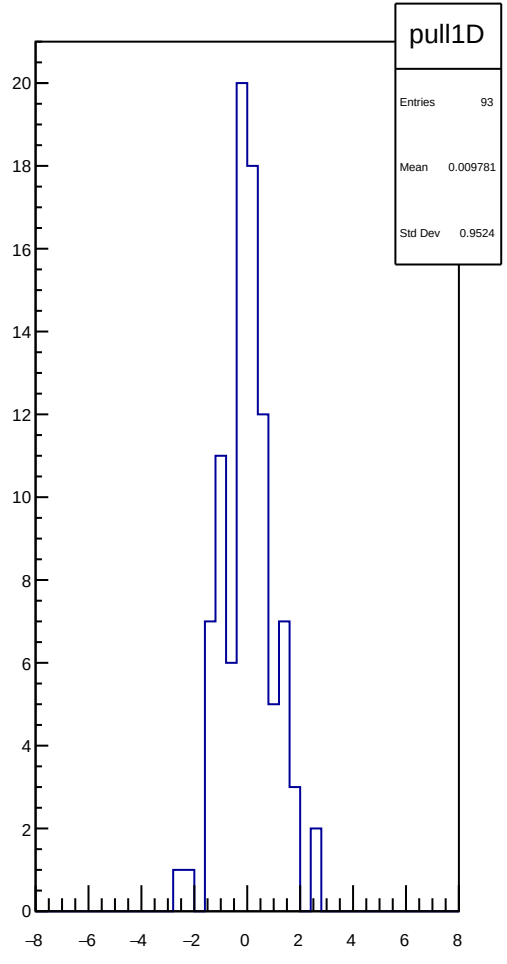

dit_asym_us_dd_rms vs run
χ² / ndf 621.3 / 92
p0 768.9 ± 0.5679
800
790
780
770
760
750
740

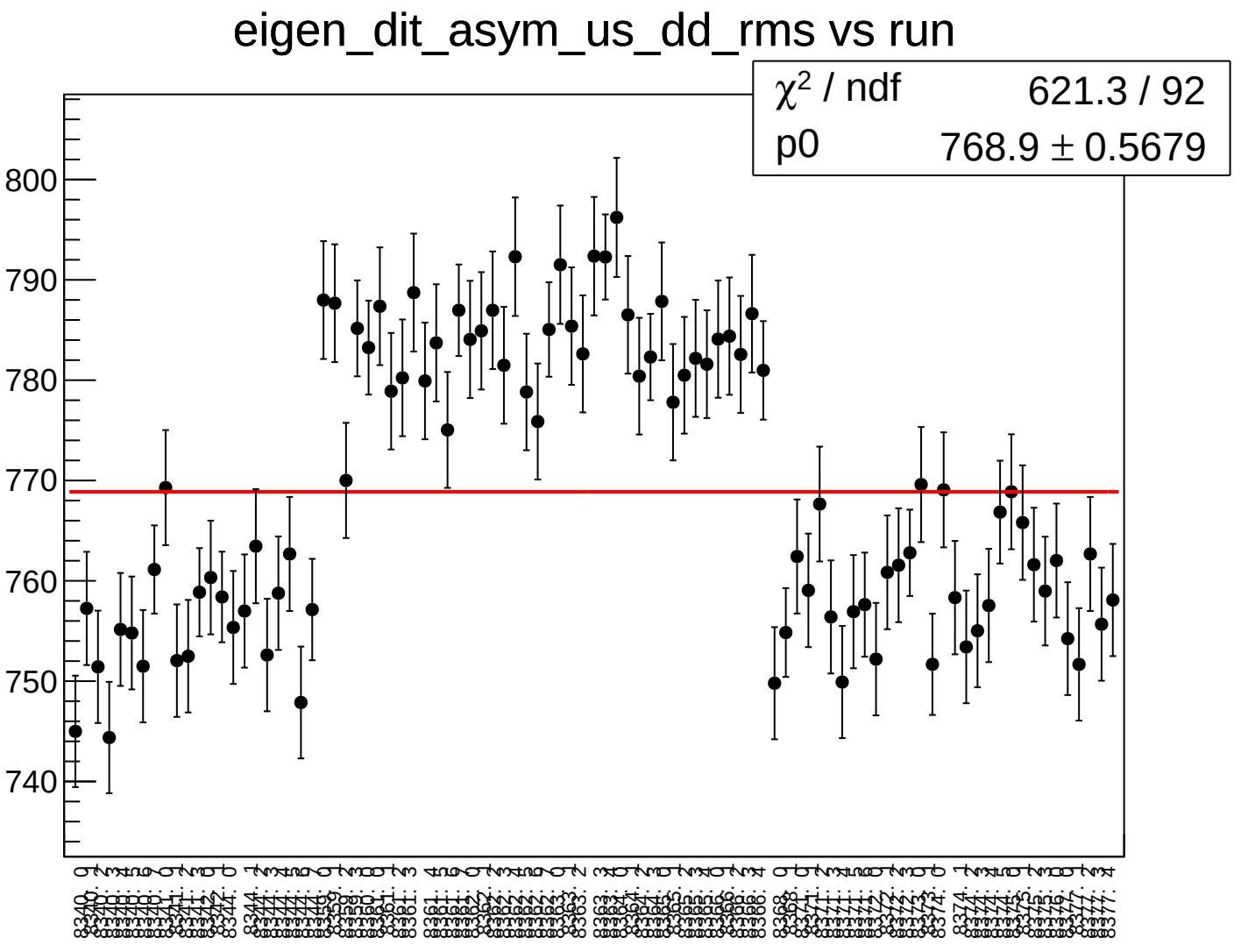

asym_us_dd_dit_correction_mean vs run
χ^2 / ndf 112.8 / 92
p0 −2060 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −190.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

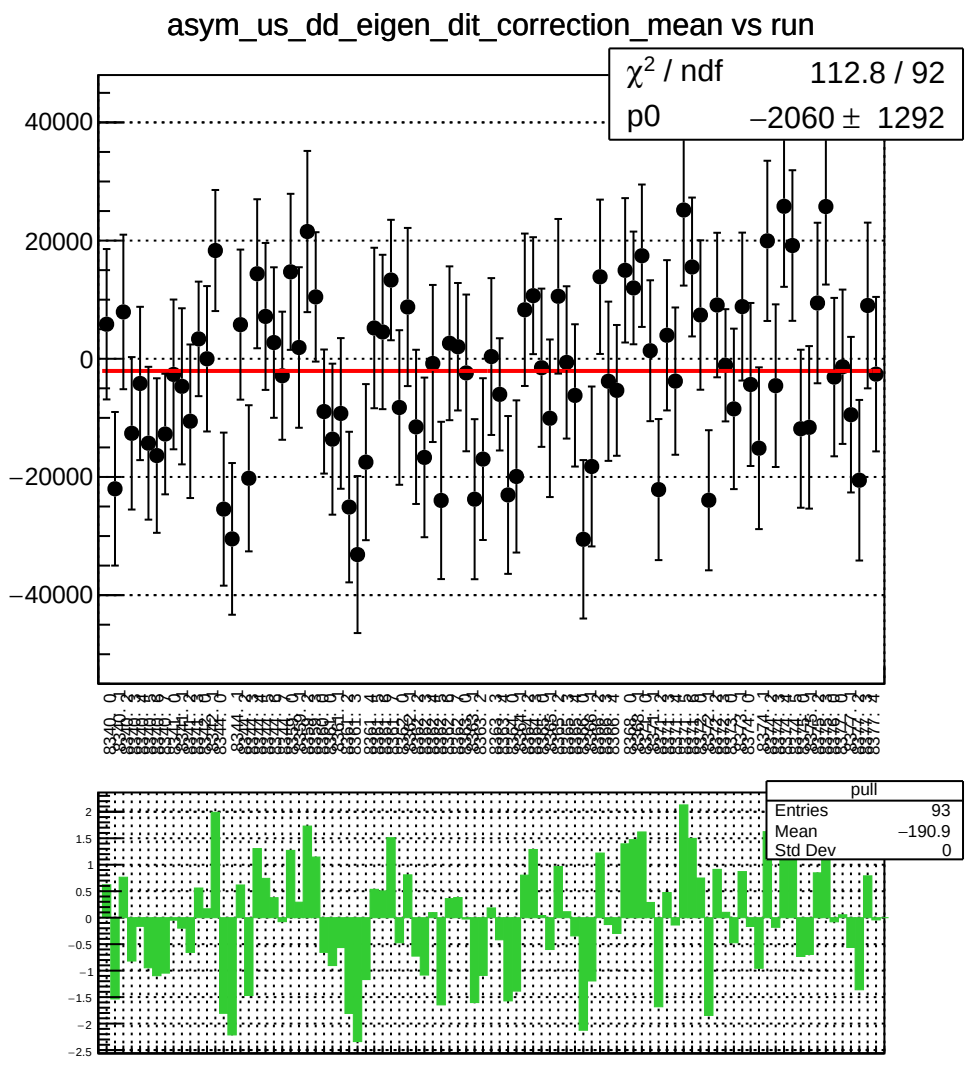

pull1D
Entries 93
Mean −0.0226
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

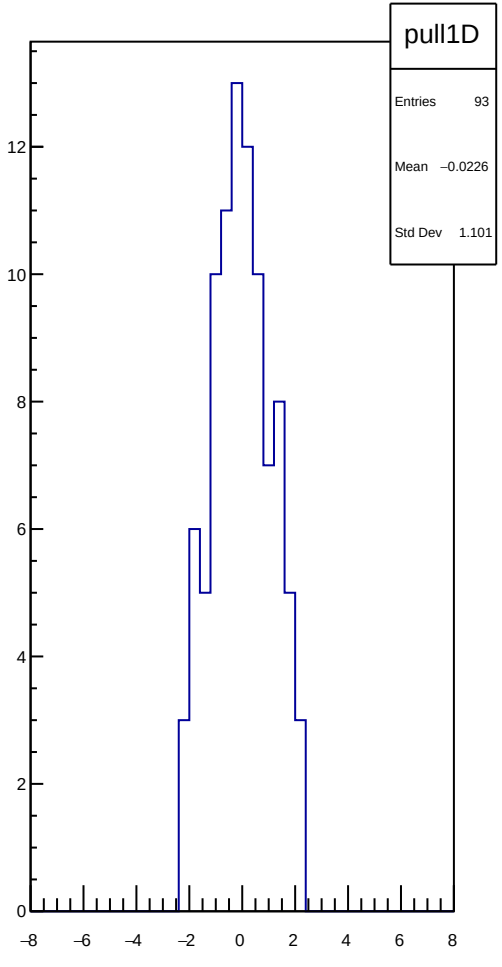

asym_us_dd_dit_correction_rms vs run
χ² / ndf 2698 / 92
p0 1236 ± 0.9135
1350
1300
1250
1200
1150
1100

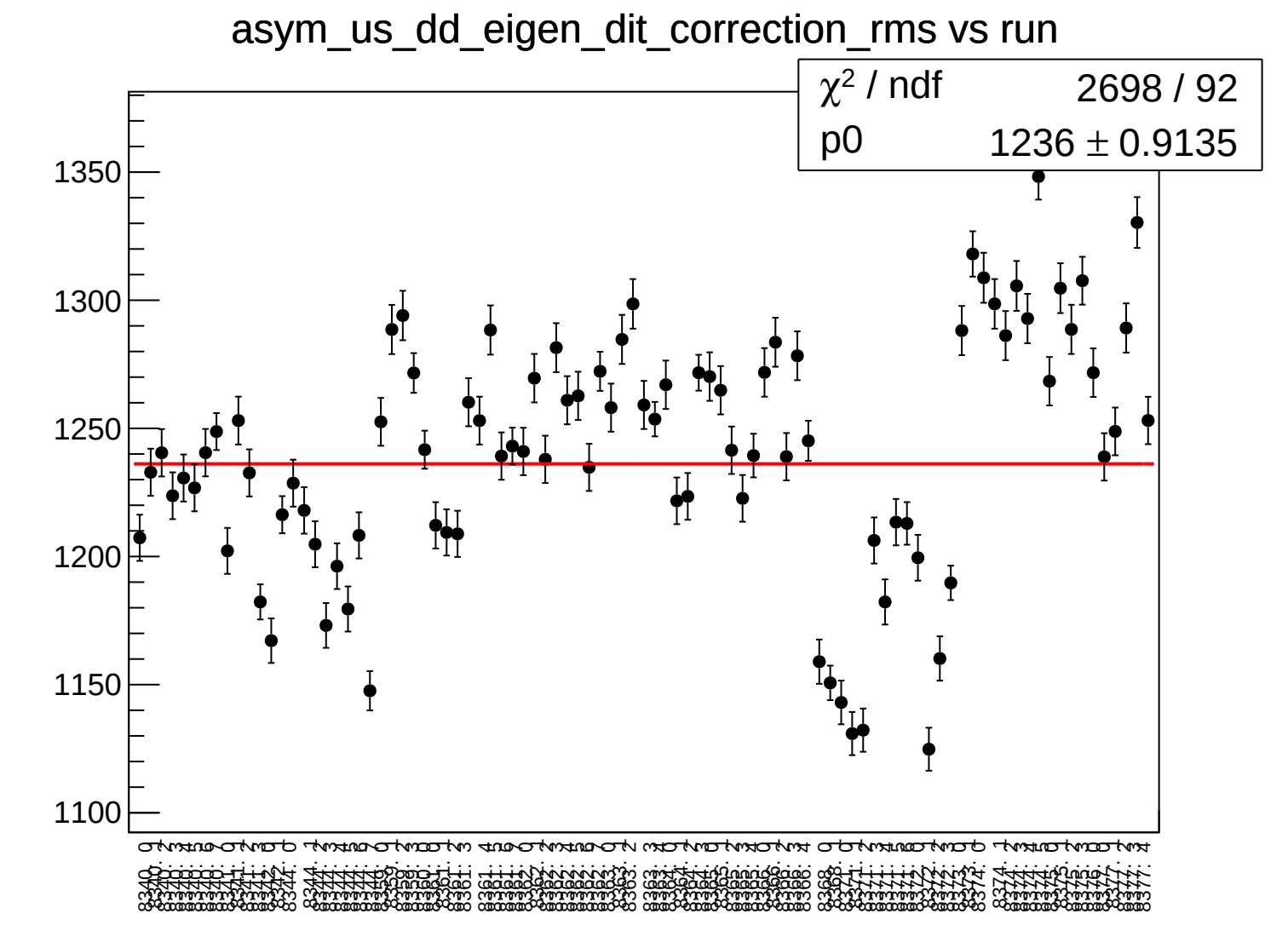

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 84.37 / 92
p0 60.64 ± 803.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −416
Std Dev 0
2
1
0
−1
−2

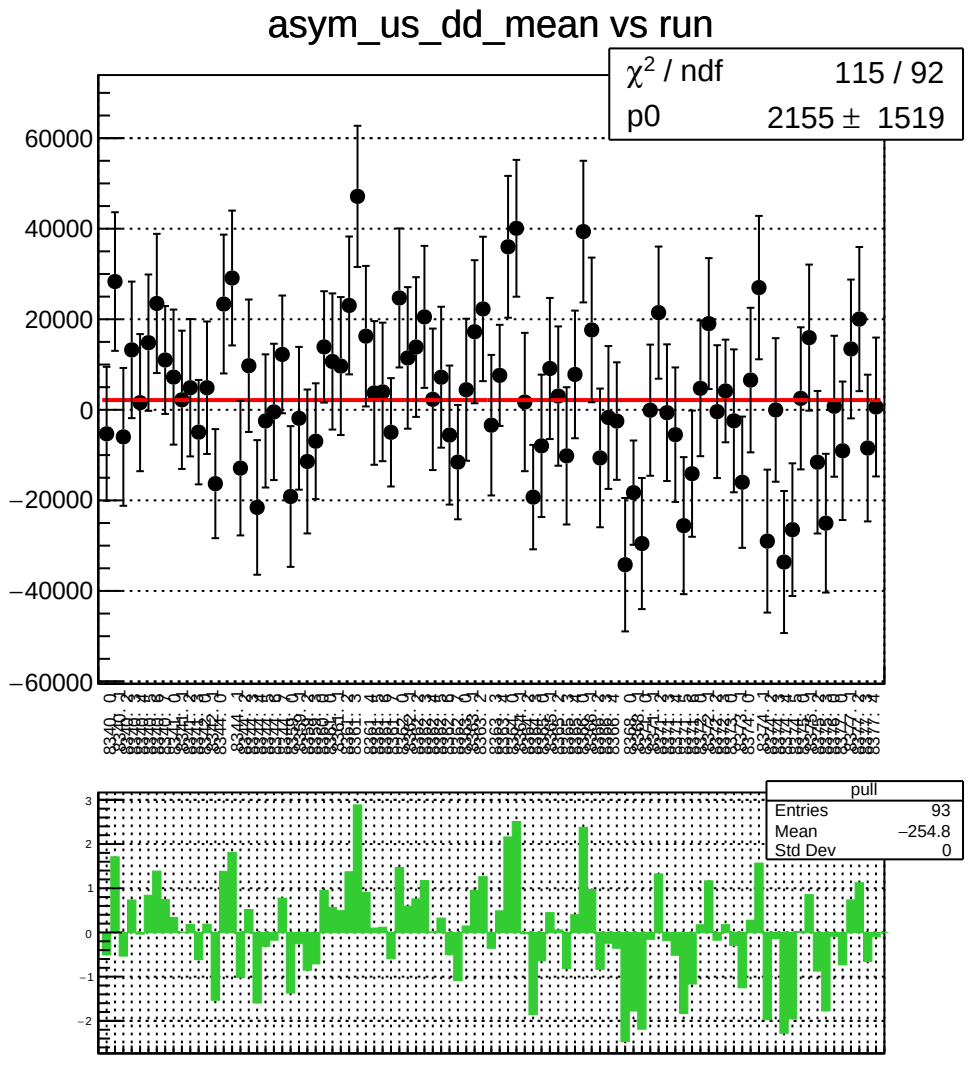

pull1D
Entries 93
Mean 0.009781
Std Dev 0.9524
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

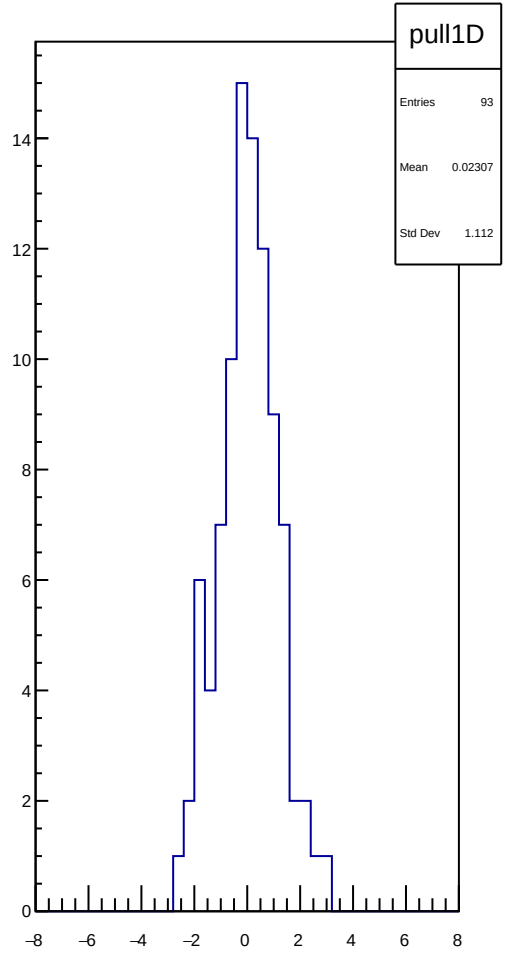

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 621.3 / 92
p0 768.9 ± 0.5679
800
790
780
770
760
750
740

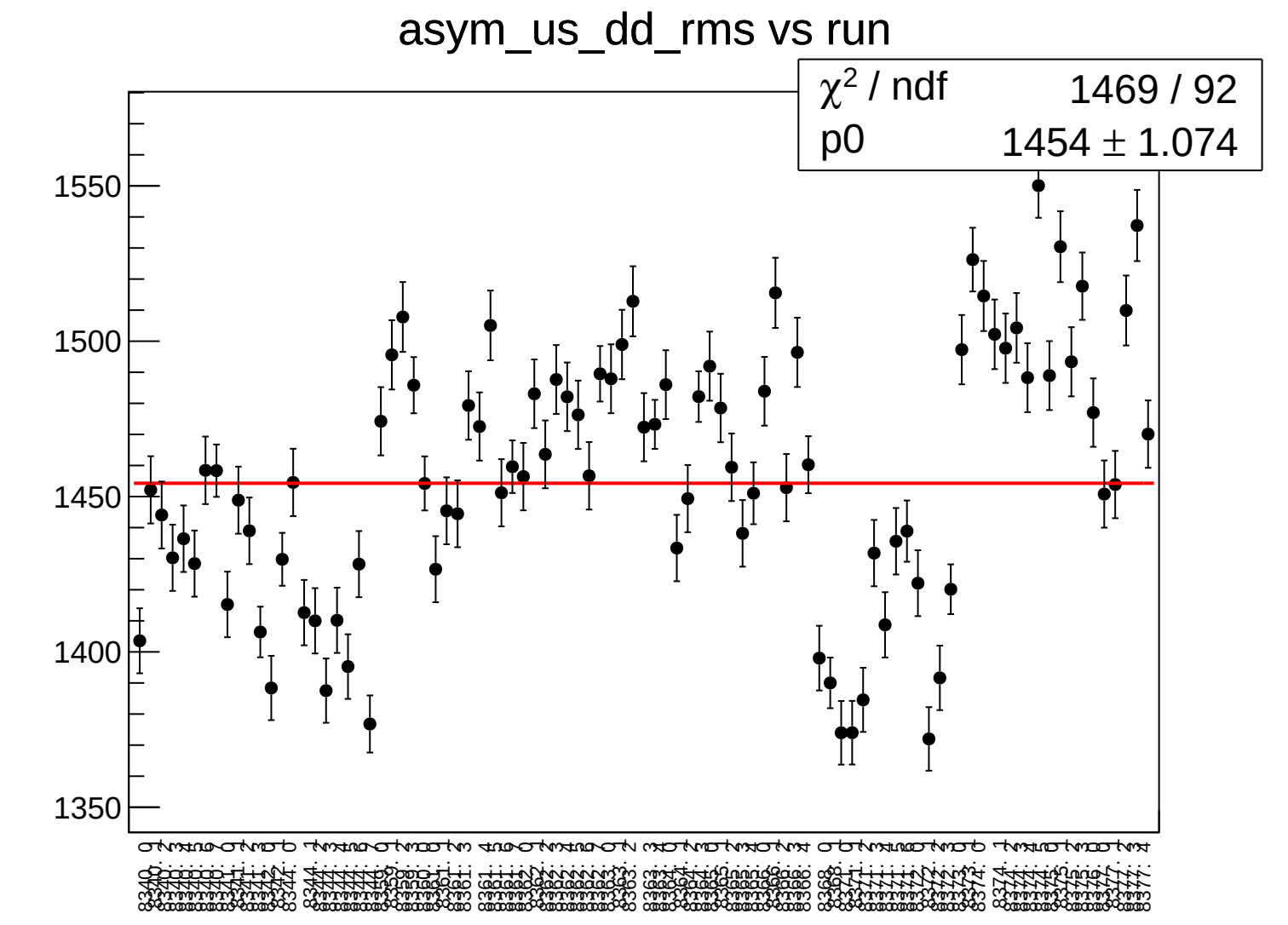

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 112.8 / 92
p0 −2060 ± 1292
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −190.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

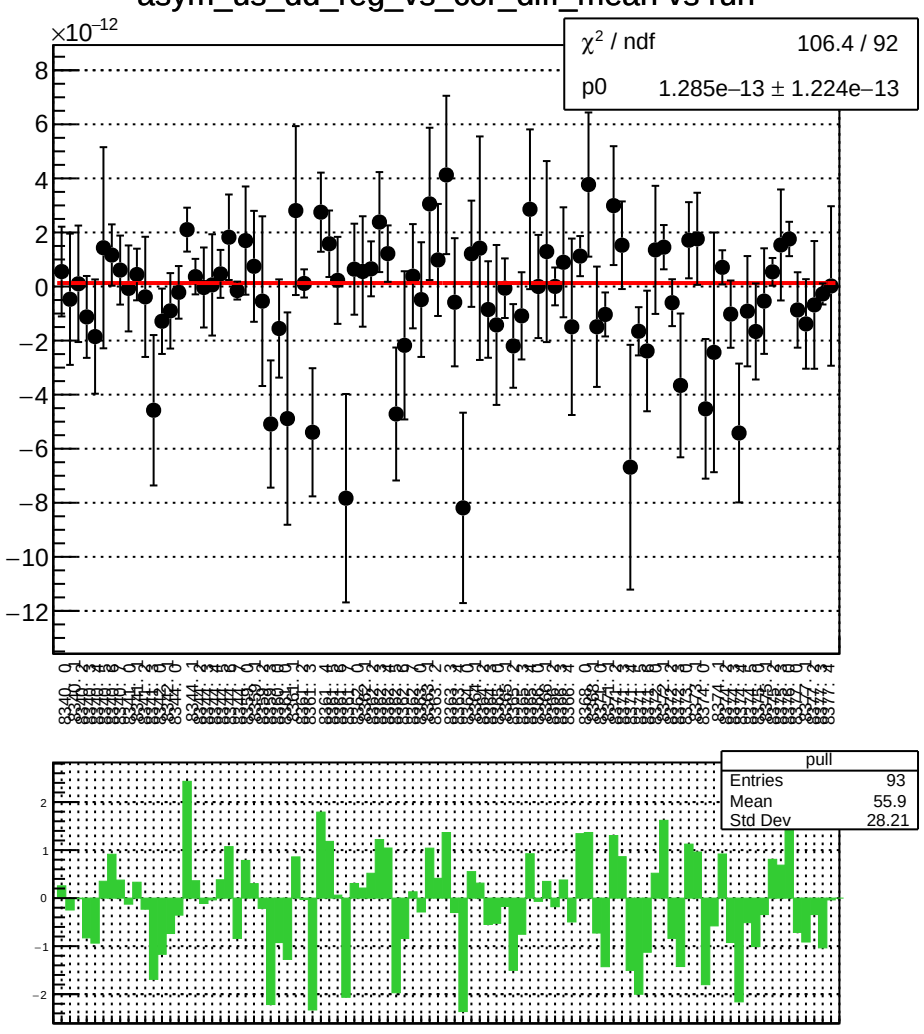

pull1D
Entries 93
Mean −0.0226
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

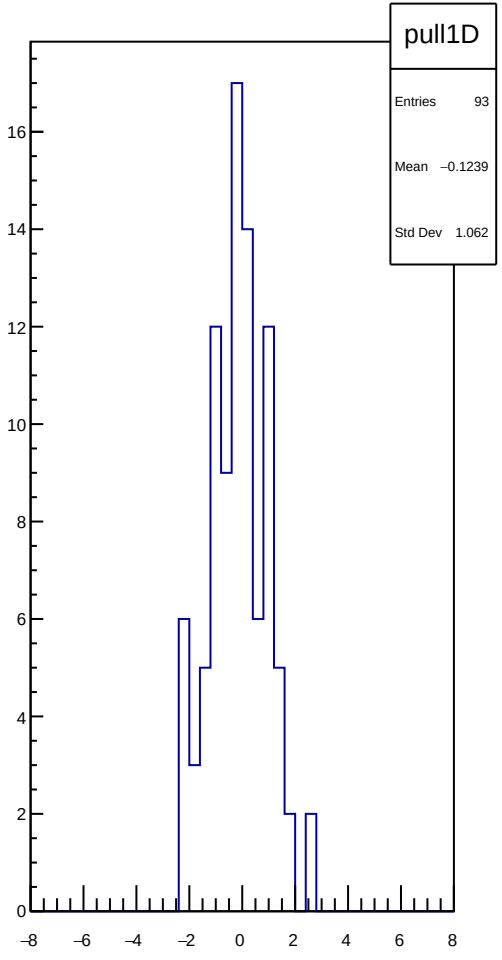

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 2698 / 92
p0 1236 ± 0.9135
1350
1300
1250
1200
1150
1100

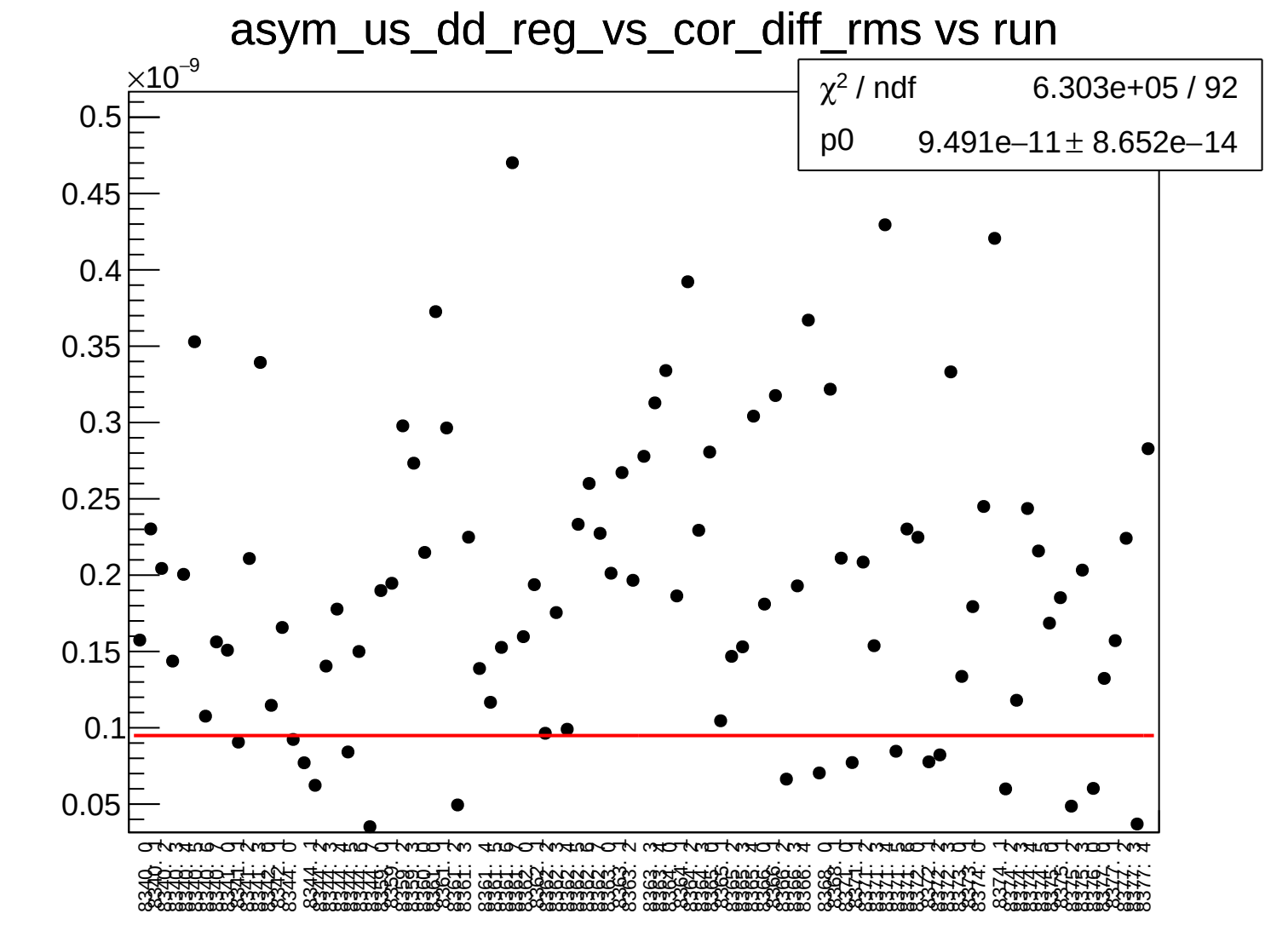

asym_us_dd_mean vs run
χ² / ndf 115 / 92
p0 2155 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −254.8
Std Dev 0
3
2
1
0
−1
−2

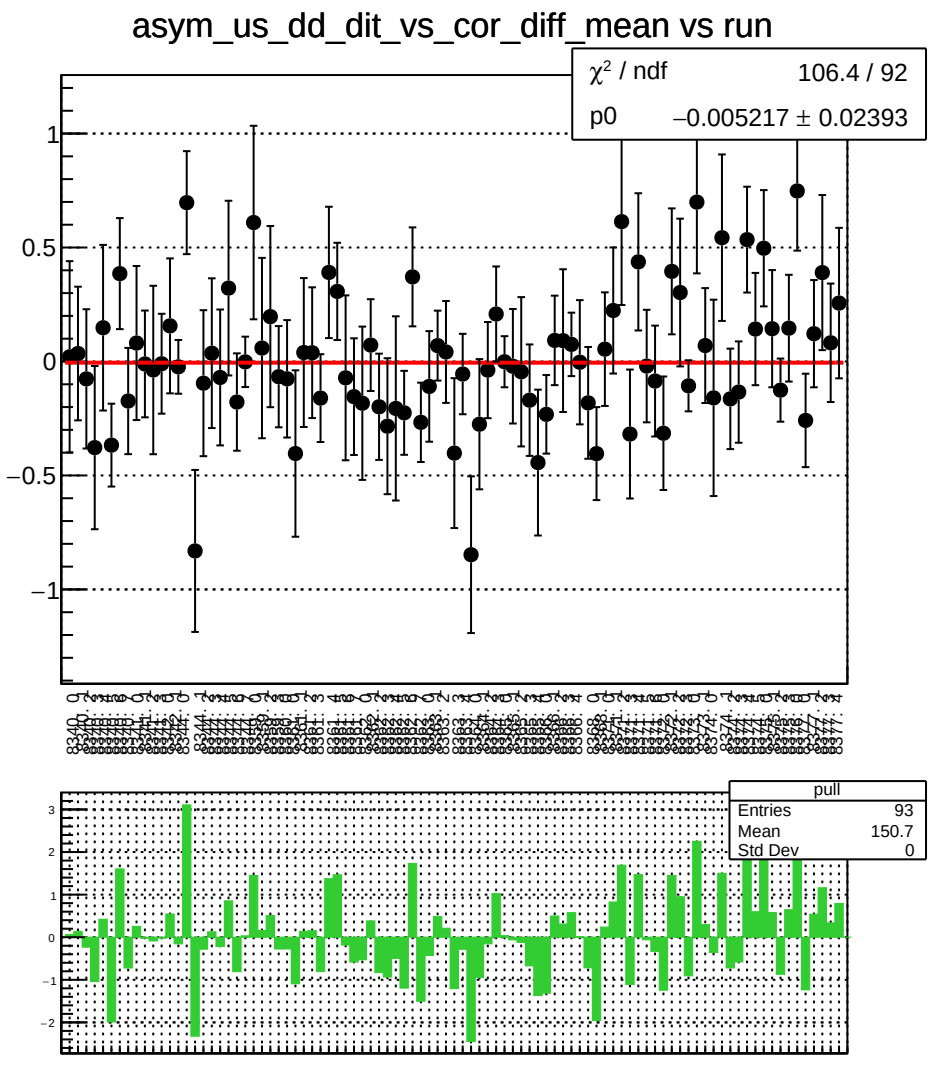

pull1D
Entries 93
Mean 0.02307
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

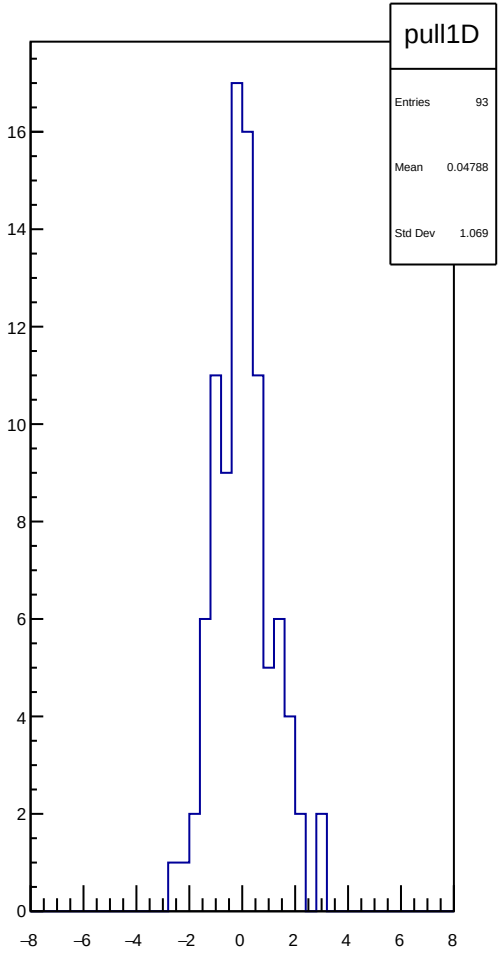

asym_us_dd_rms vs run
χ² / ndf 1469 / 92
p0 1454 ± 1.074
1550
1500
1450
1400
1350

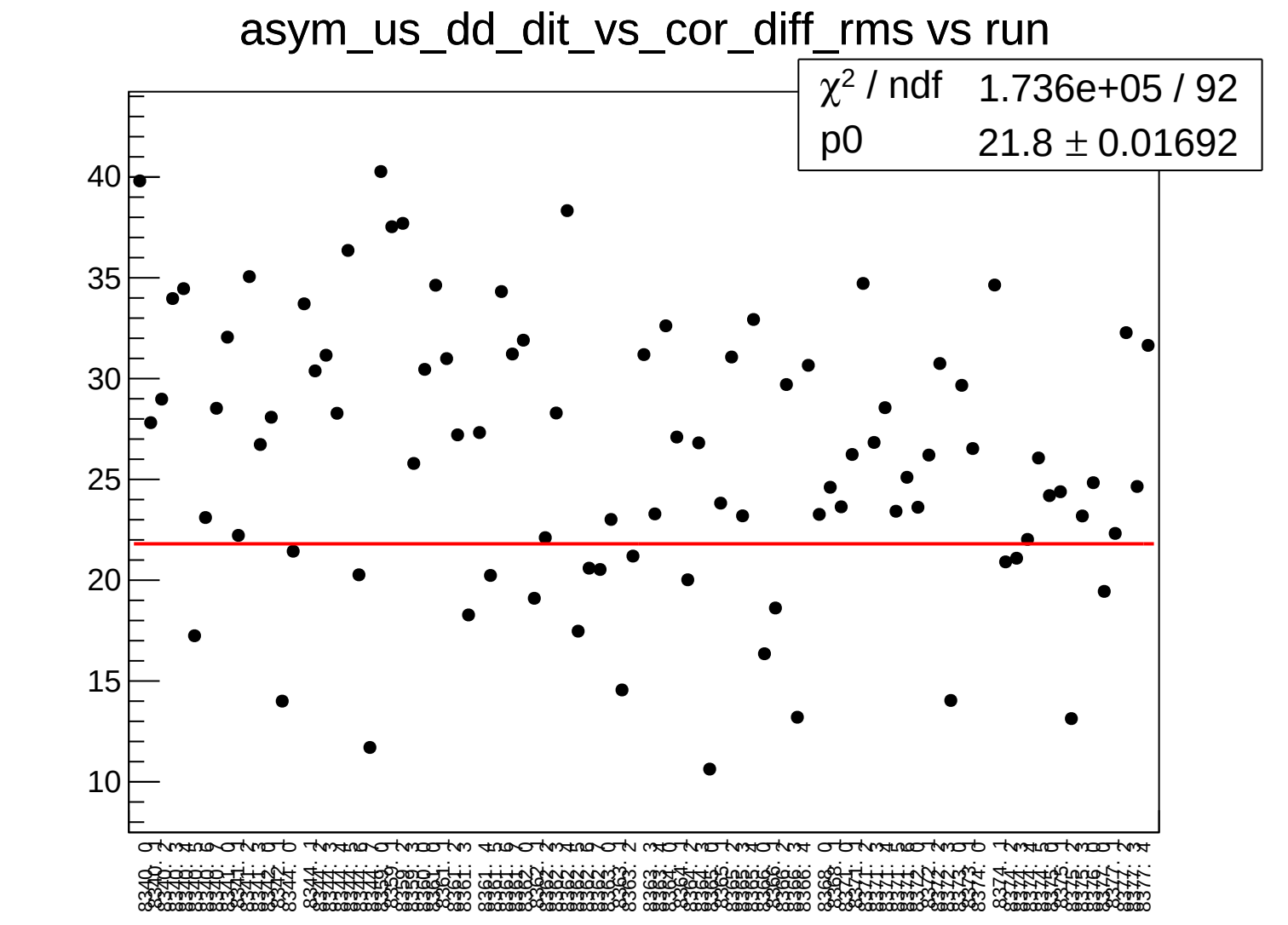

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.4 / 92
p0 1.285e−13 ± 1.224e−13
pull
Entries 93
Mean 55.9
Std Dev 28.21

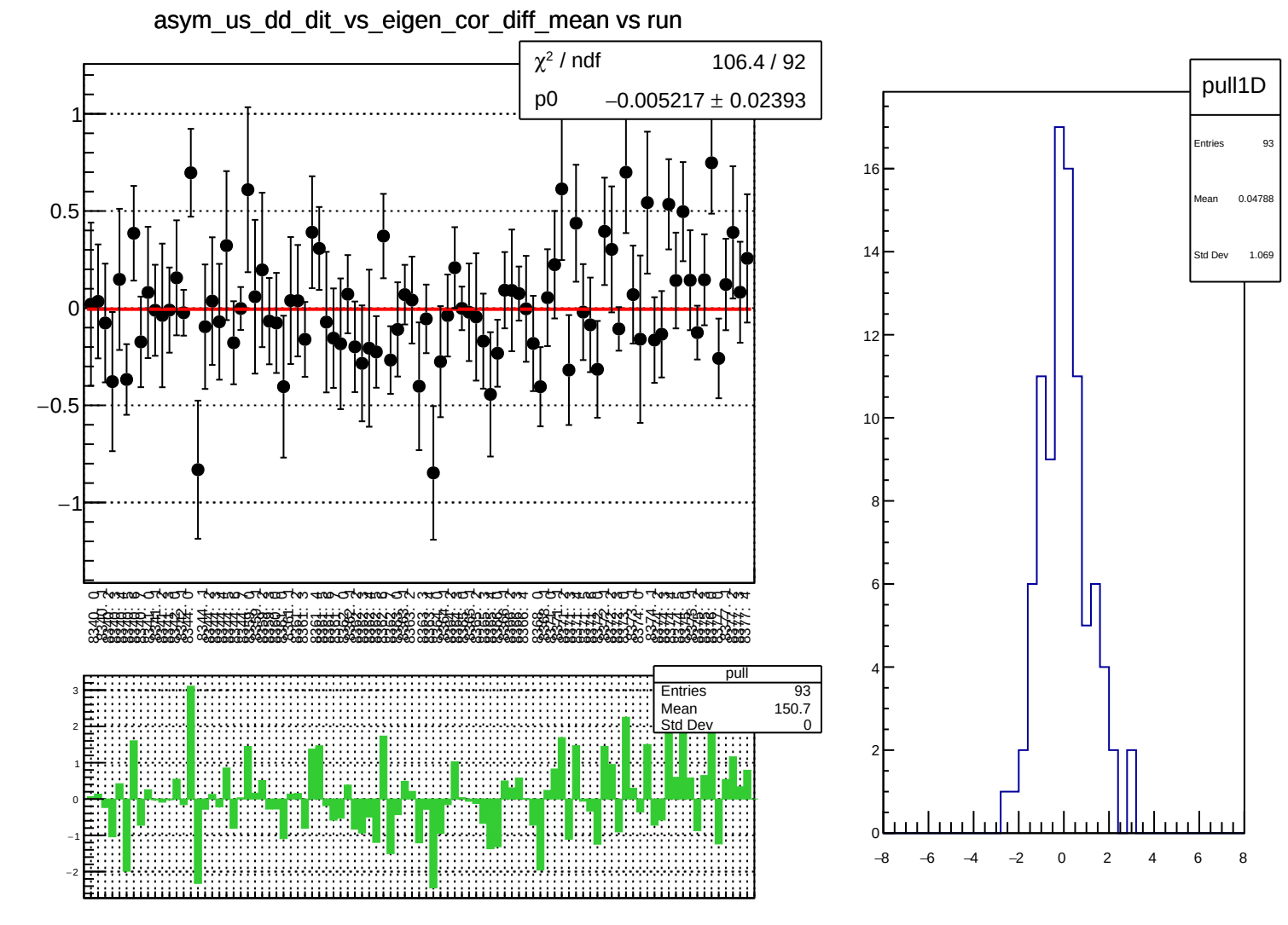

pull1D
Entries 93
Mean −0.1239
Std Dev 1.062

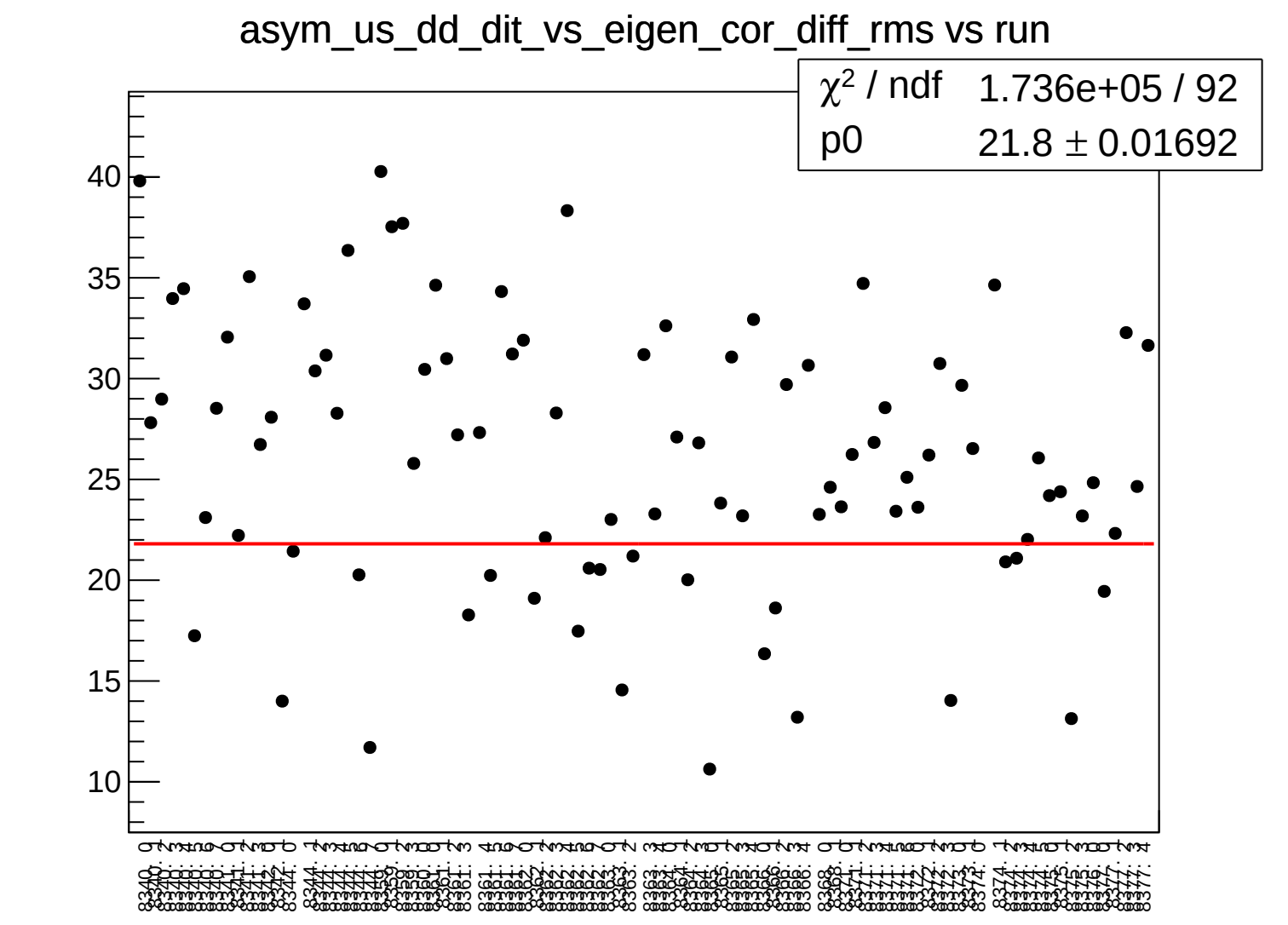

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.303e+05 / 92
p0 9.491e−11 ± 8.652e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

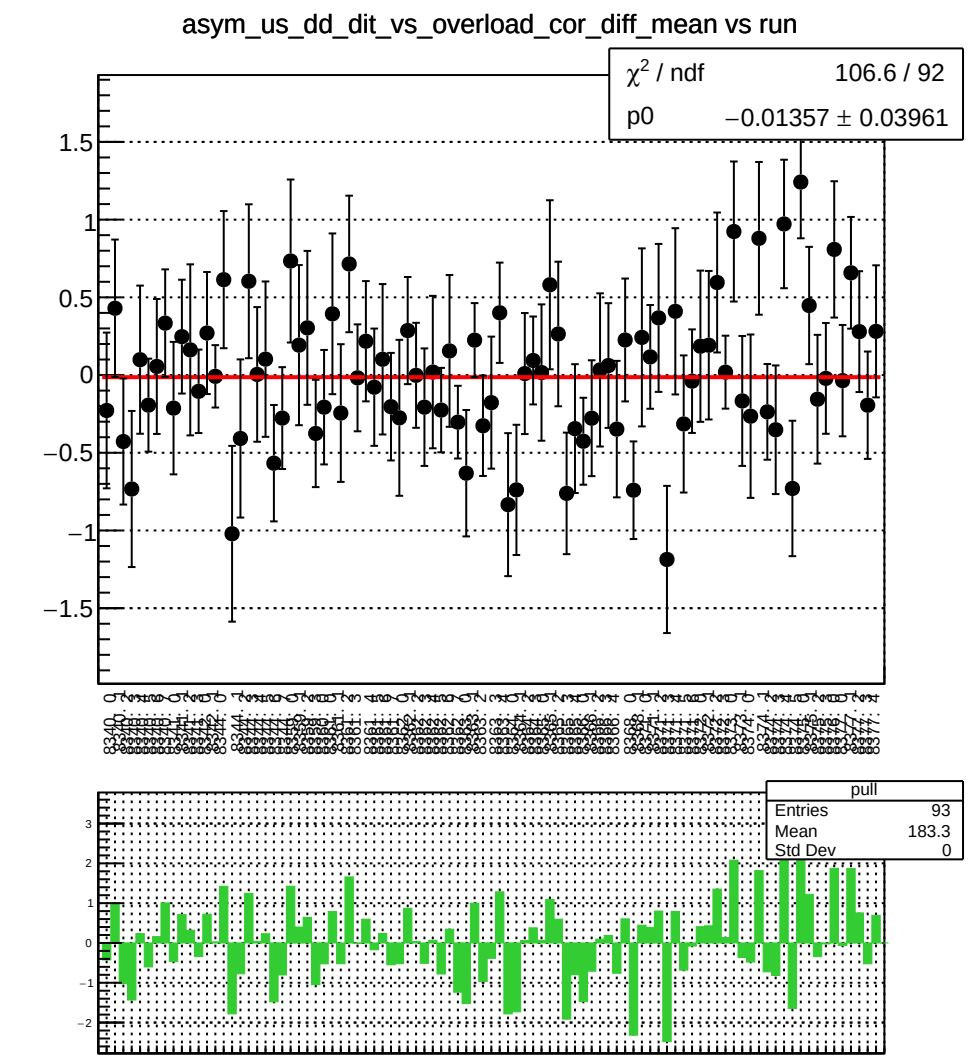

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 92
p0 −0.005217 ± 0.02393
pull
Entries 93
Mean 150.7
Std Dev 0

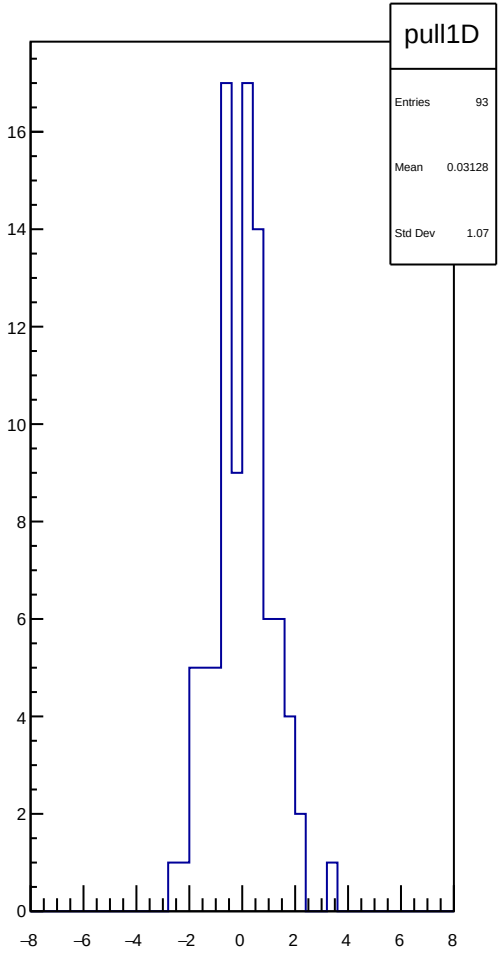

pull1D
Entries 93
Mean 0.04788
Std Dev 1.069

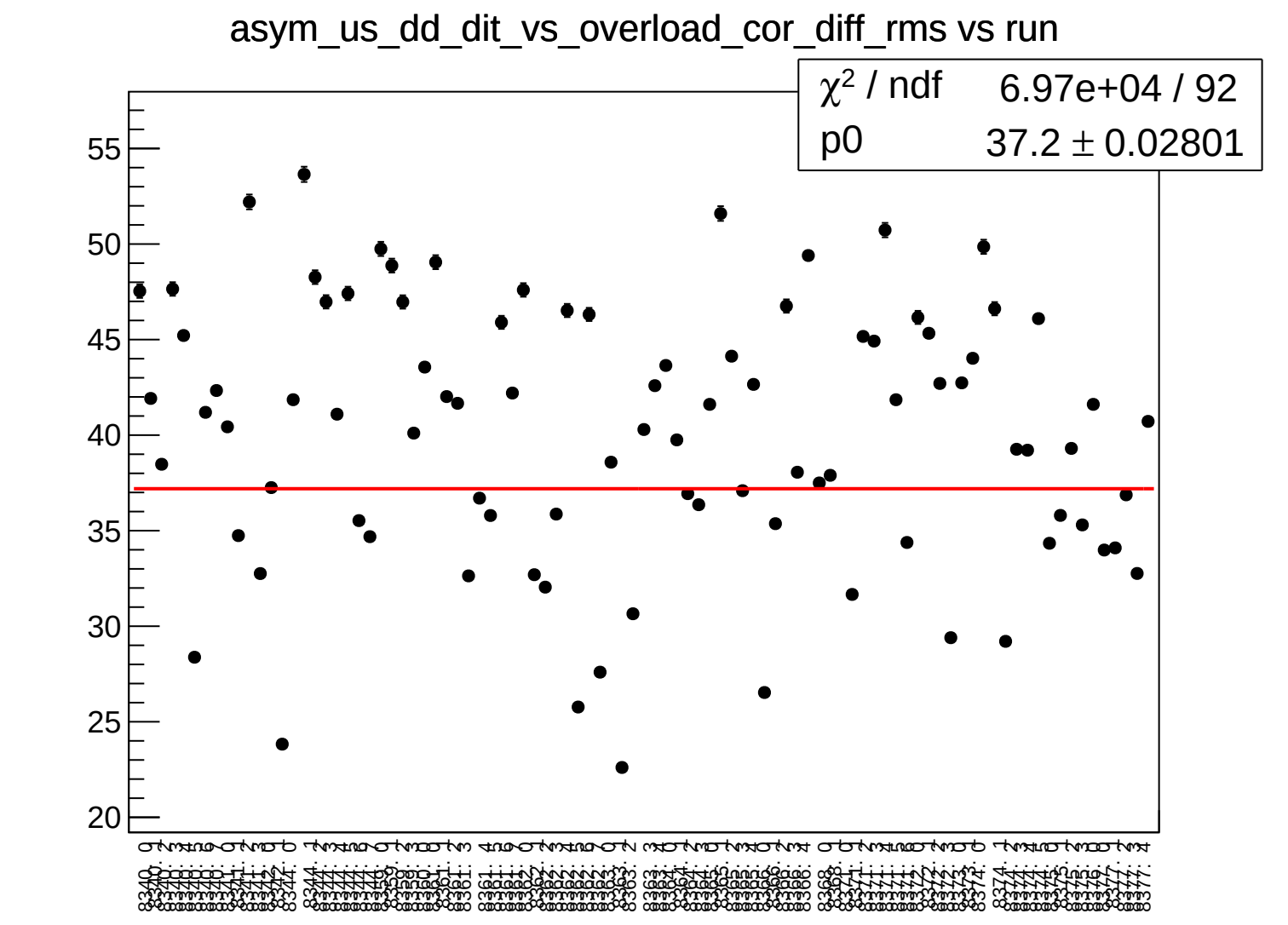

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 92
p0 21.8 ± 0.01692
40
35
30
25
20
15
10

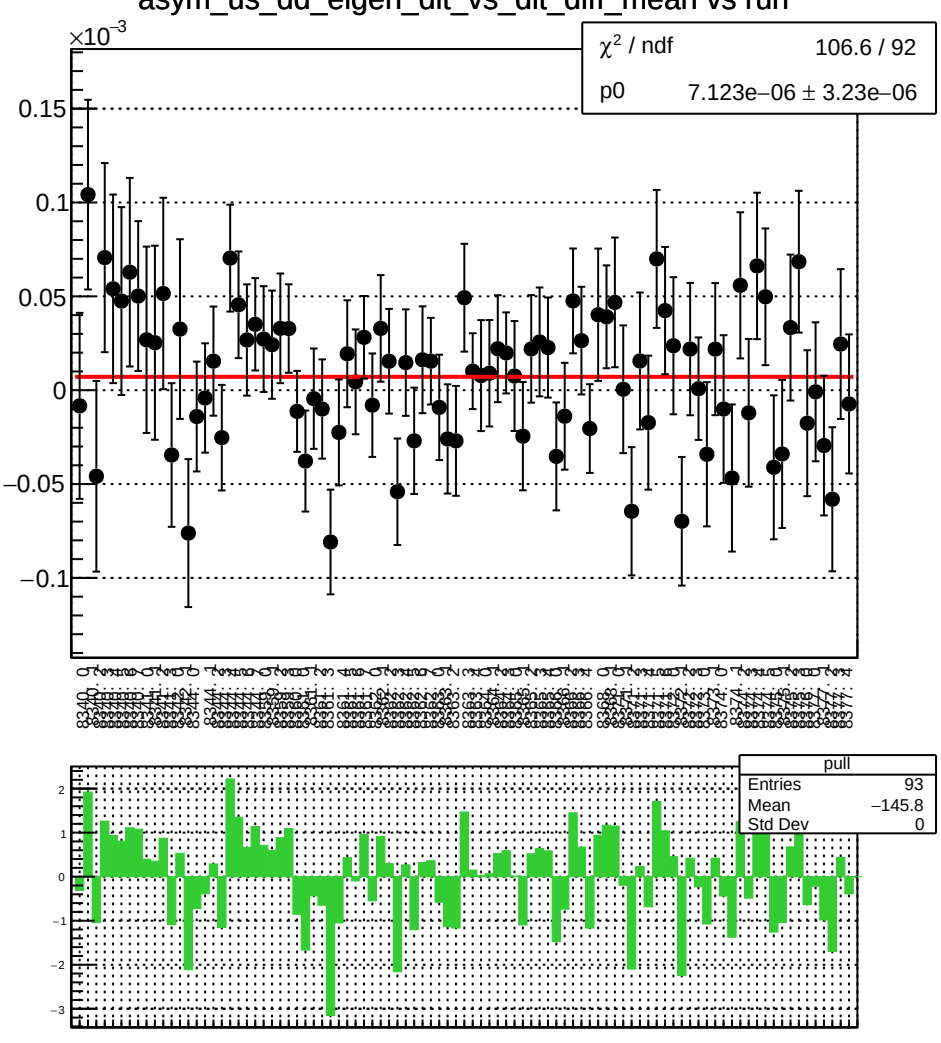

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 92
p0 −0.005217 ± 0.02393
pull
Entries 93
Mean 150.7
Std Dev 0
pull1D
Entries 93
Mean 0.04788
Std Dev 1.069

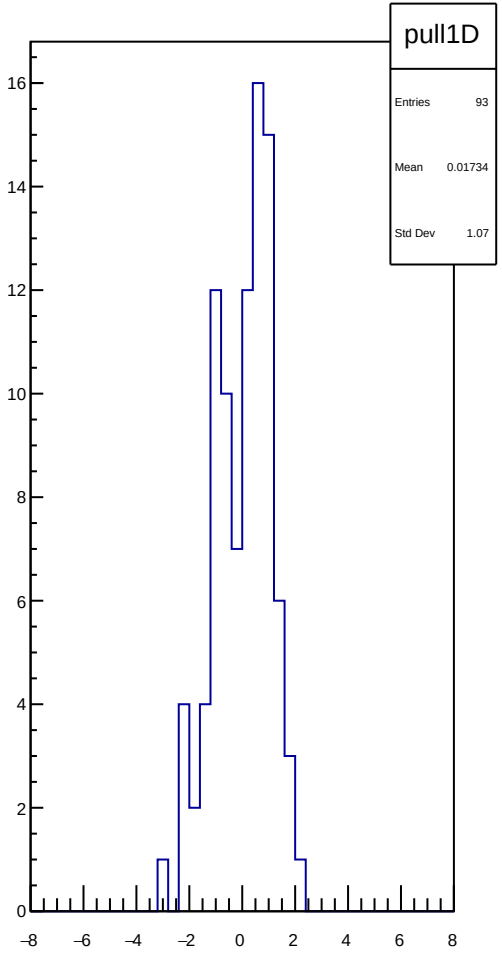

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.736e+05 / 92
p0 21.8 ± 0.01692
40
35
30
25
20
15
10

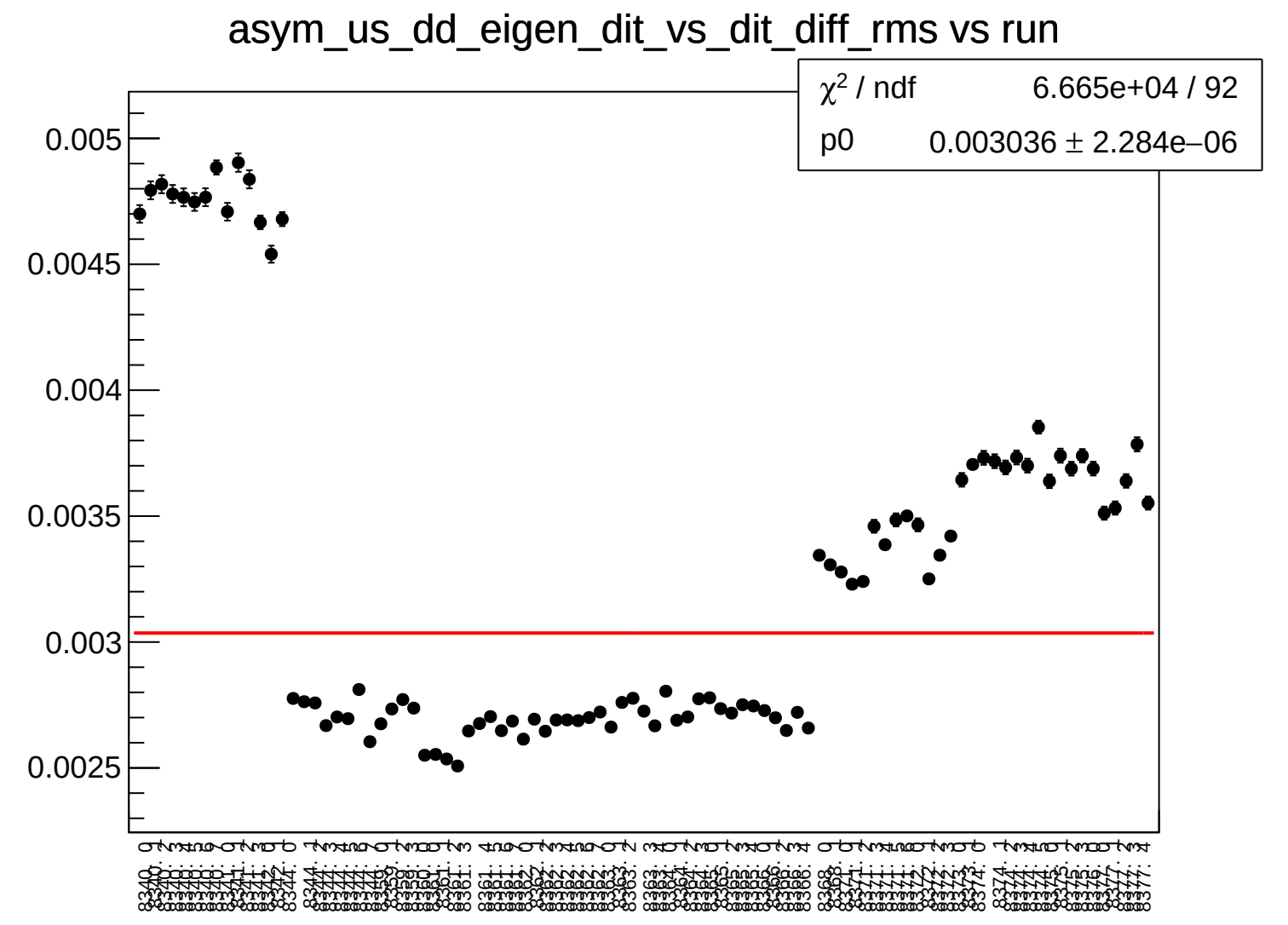

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 −0.01357 ± 0.03961
pull
Entries 93
Mean 183.3
Std Dev 0

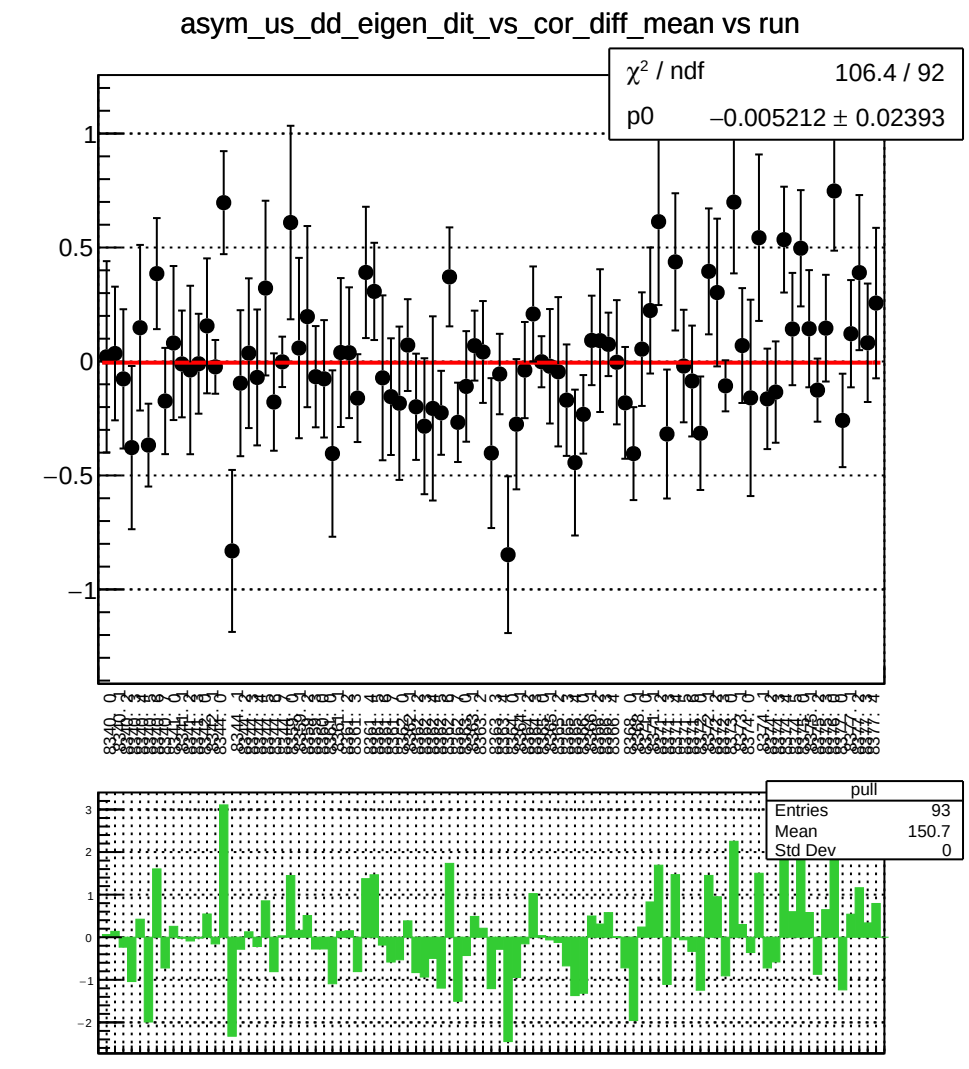

pull1D
Entries 93
Mean 0.03128
Std Dev 1.07

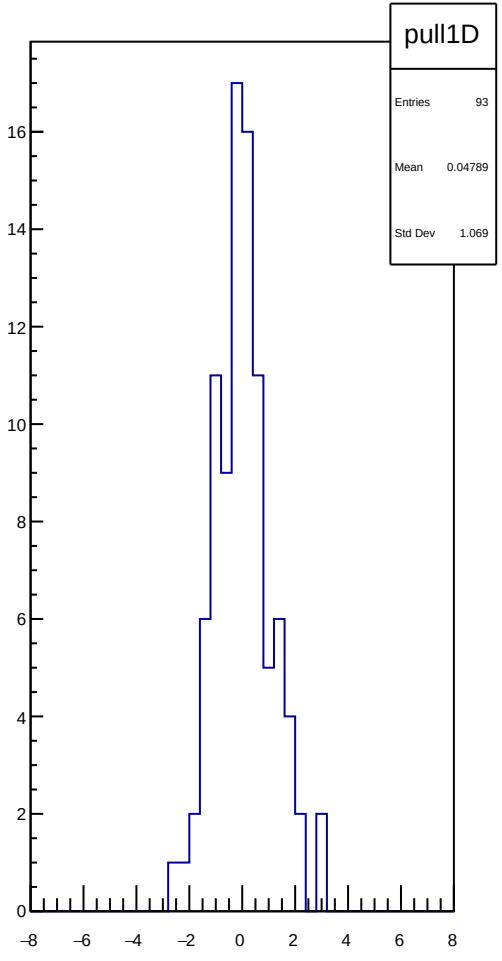

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.97e+04 / 92
p0 37.2 ± 0.02801
55
50
45
40
35
30
25
20

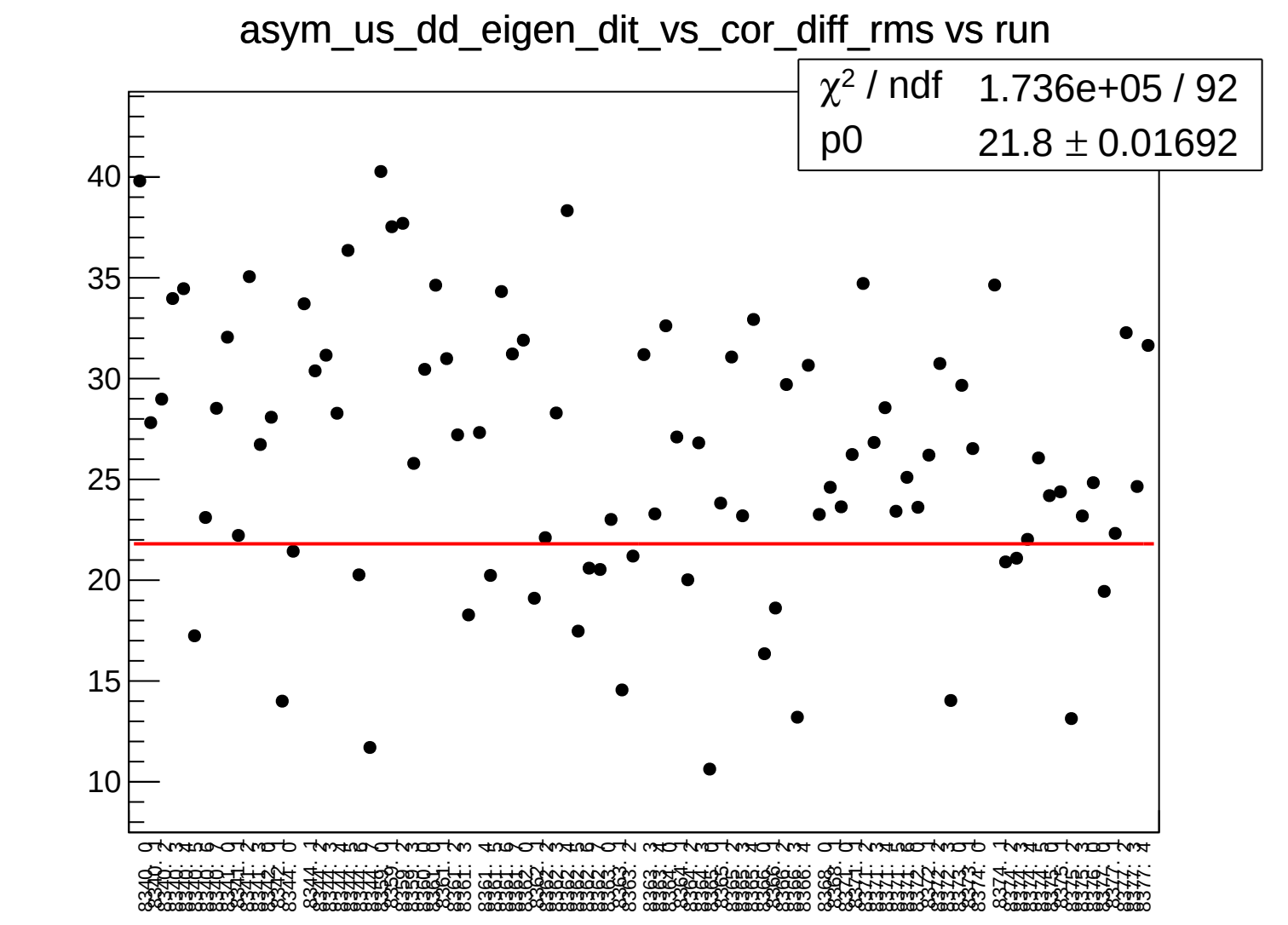

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.6 / 92
p0 7.123e−06 ± 3.23e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −145.8
Std Dev 0
2
1
0
−1
−2
−3

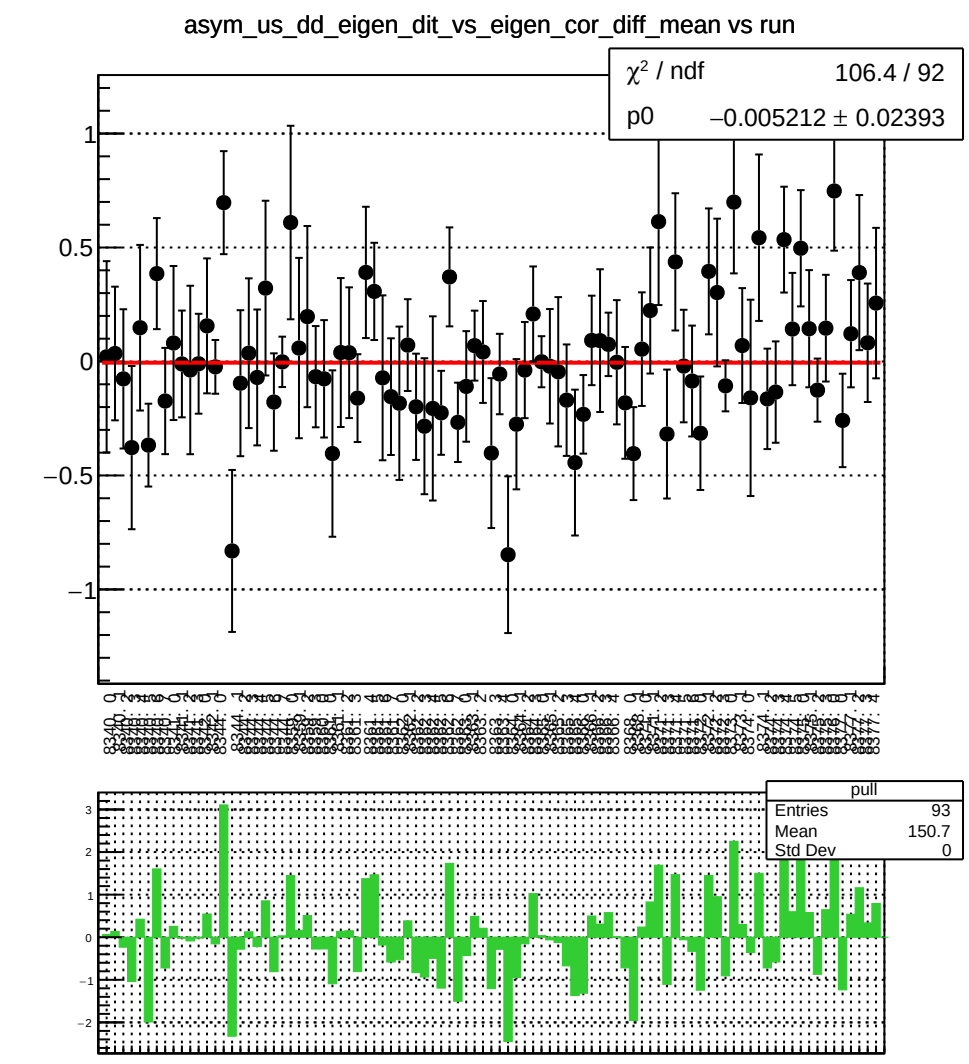

pull1D
Entries 93
Mean 0.01734
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

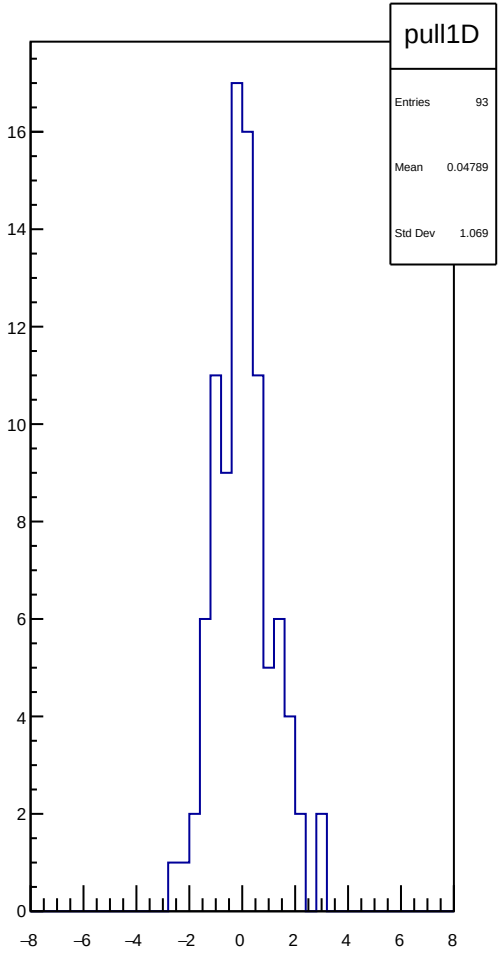

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.665e+04 / 92
p0 0.003036 ± 2.284e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

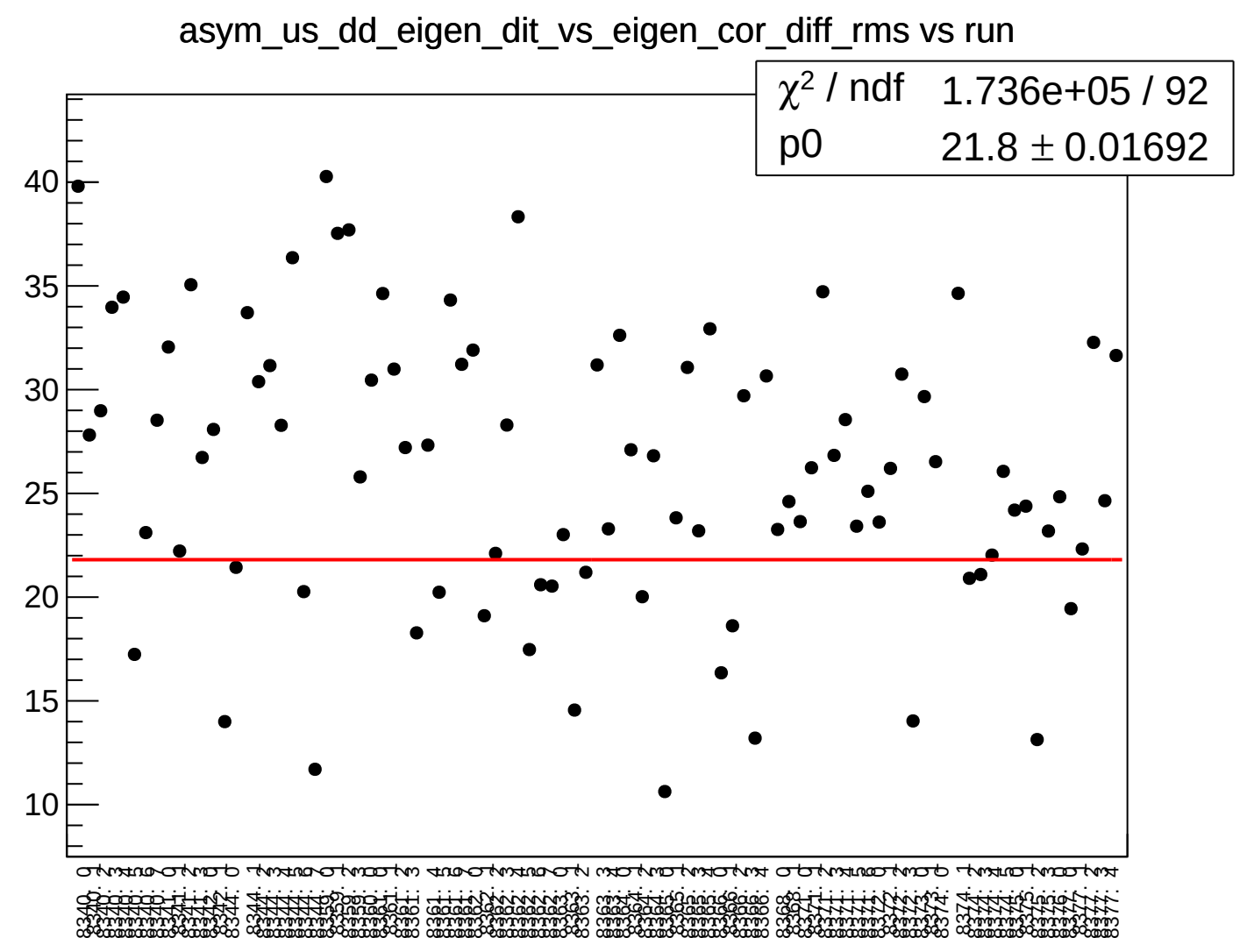

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 92
p0 −0.005212 ± 0.02393
pull
Entries 93
Mean 150.7
Std Dev 0

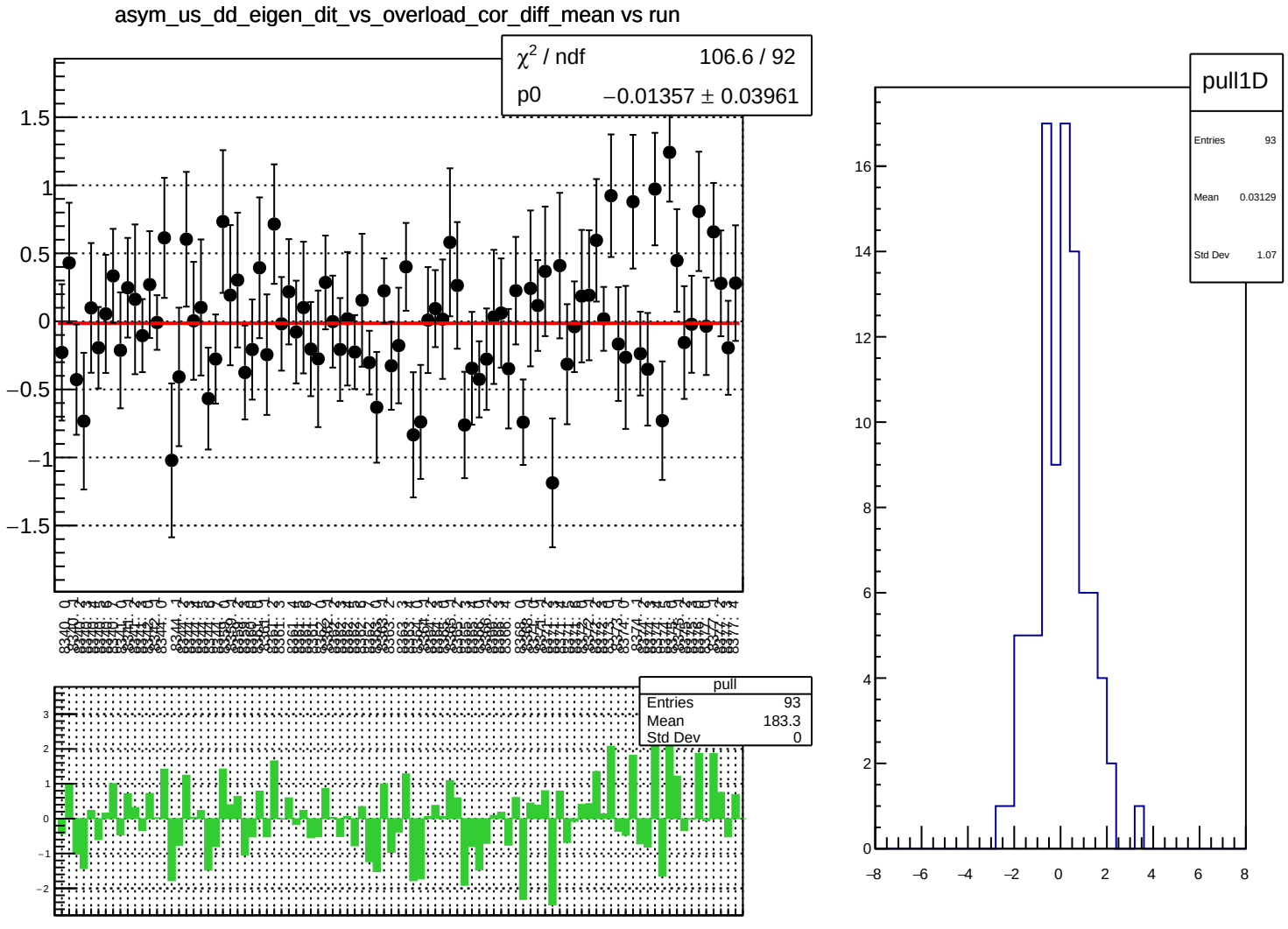

pull1D
Entries 93
Mean 0.04789
Std Dev 1.069

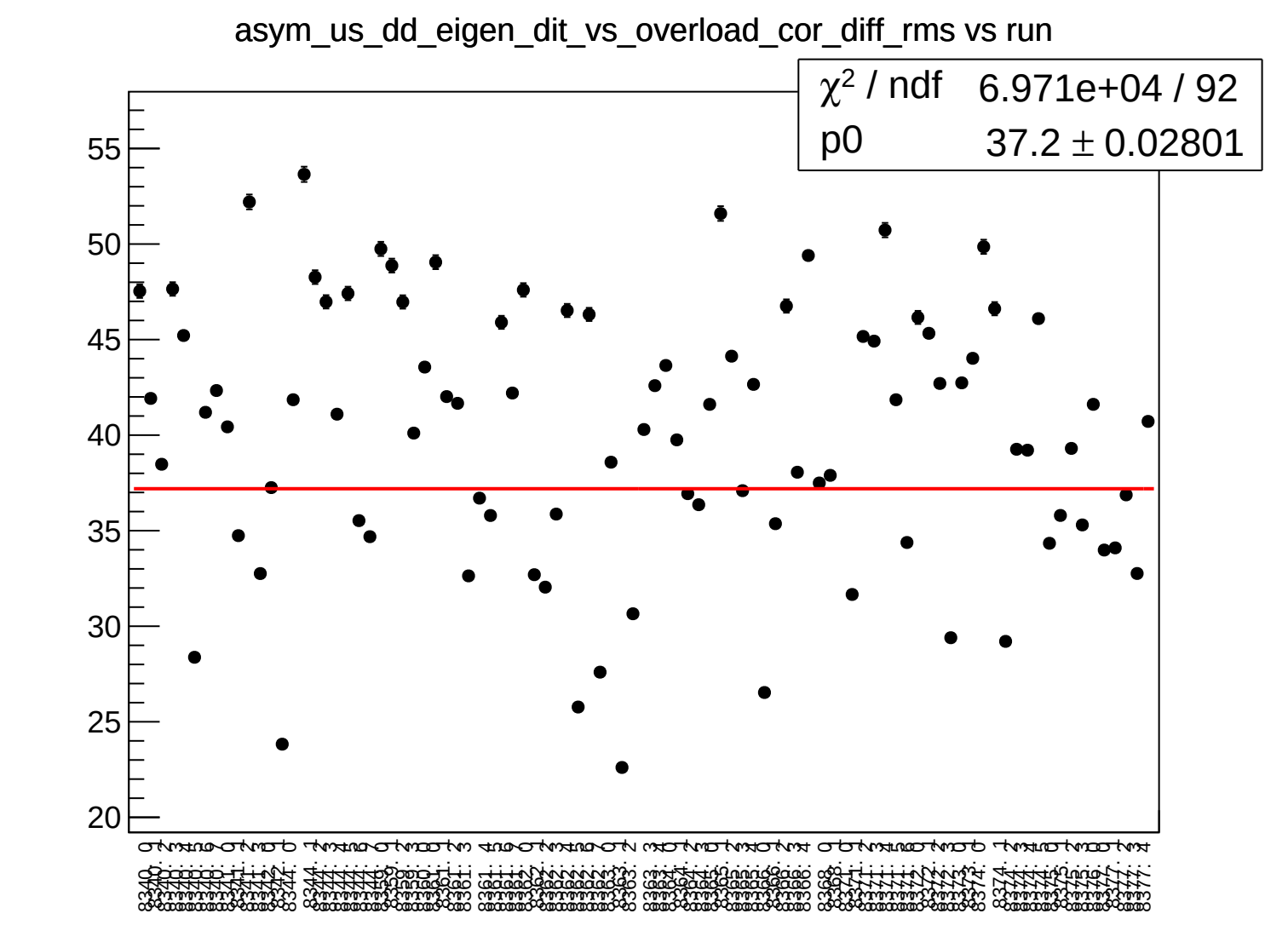

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 92
p0 21.8 ± 0.01692
40
35
30
25
20
15
10

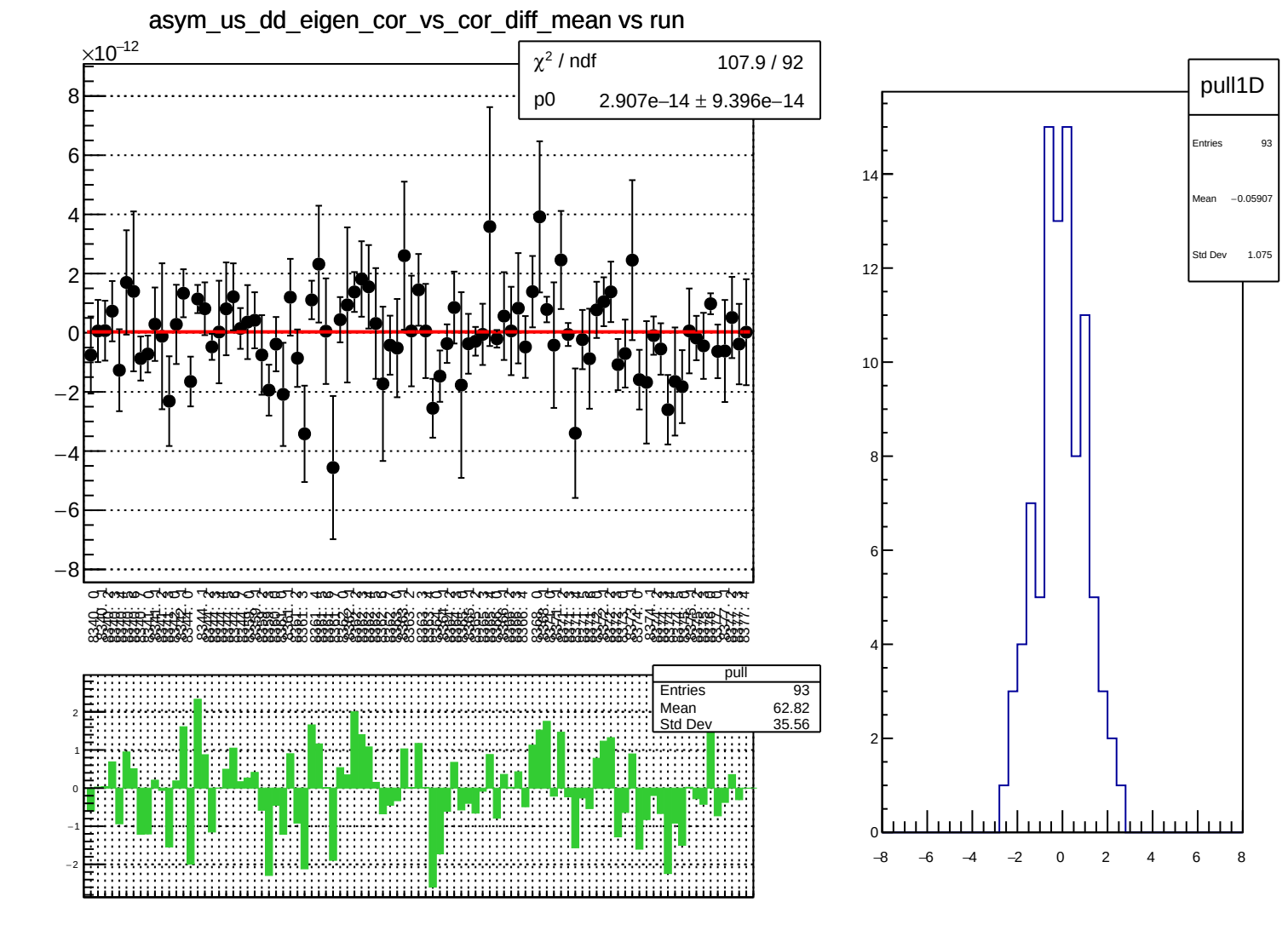

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 92
p0 −0.005212 ± 0.02393
pull
Entries 93
Mean 150.7
Std Dev 0

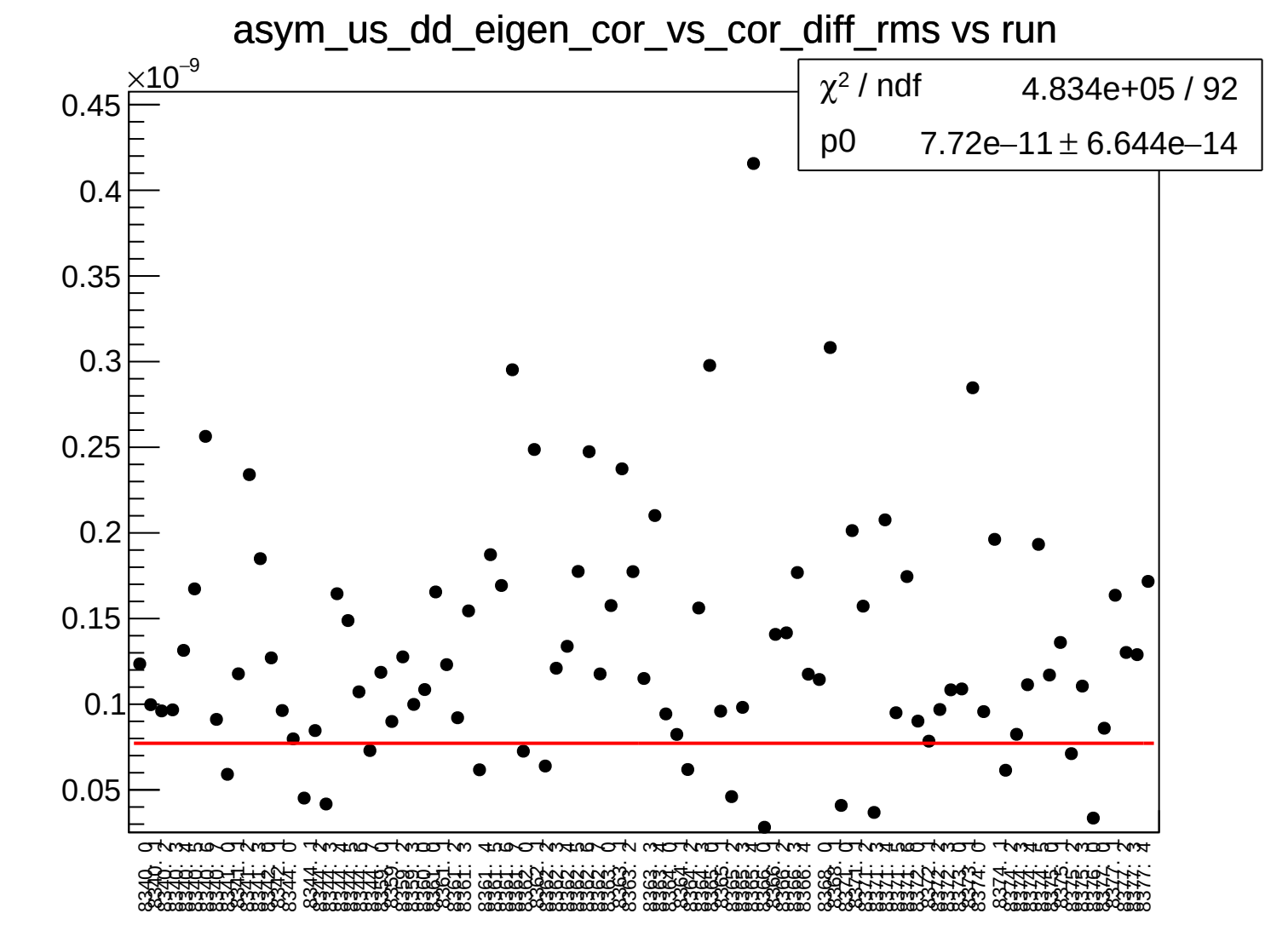

pull1D
Entries 93
Mean 0.04789
Std Dev 1.069

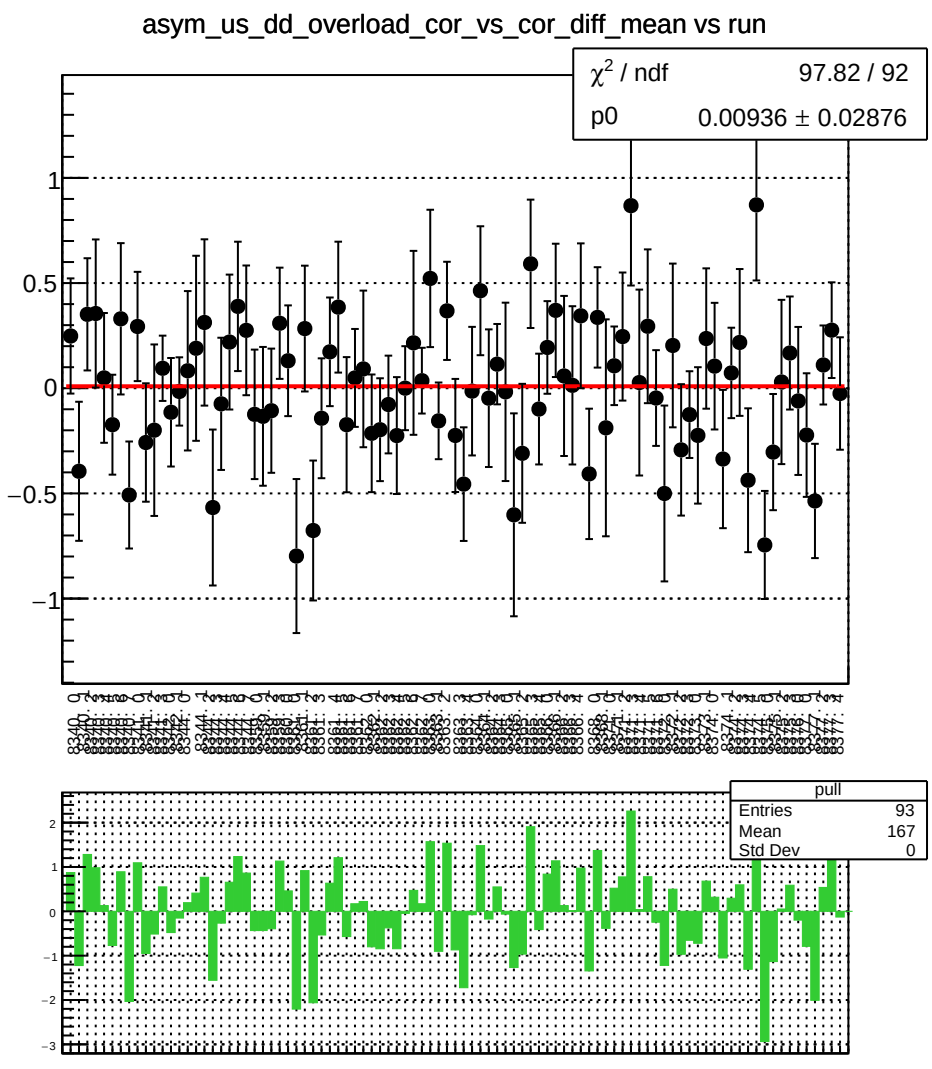

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.736e+05 / 92
p0 21.8 ± 0.01692
40
35
30
25
20
15
10

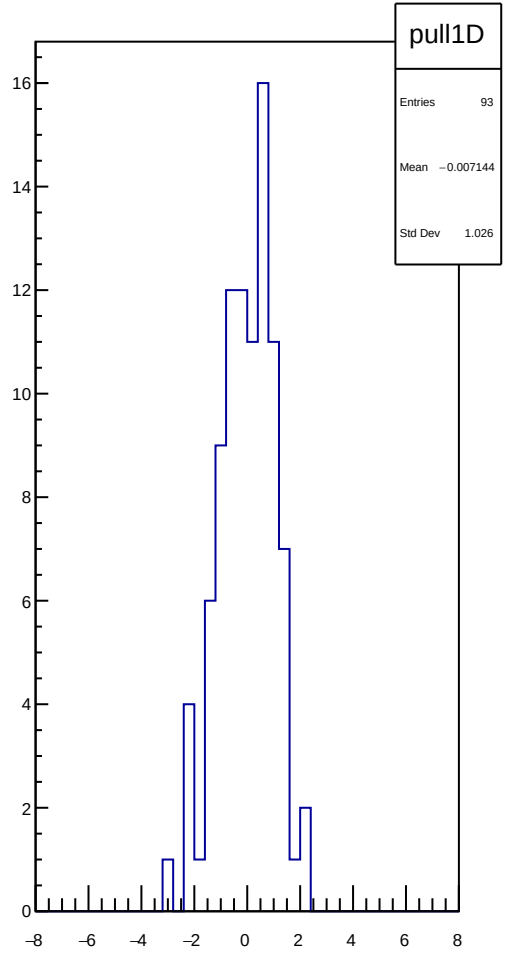

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 106.6 / 92
p0 −0.01357 ± 0.03961
pull
Entries 93
Mean 183.3
Std Dev 0
pull1D
Entries 93
Mean 0.03129
Std Dev 1.07

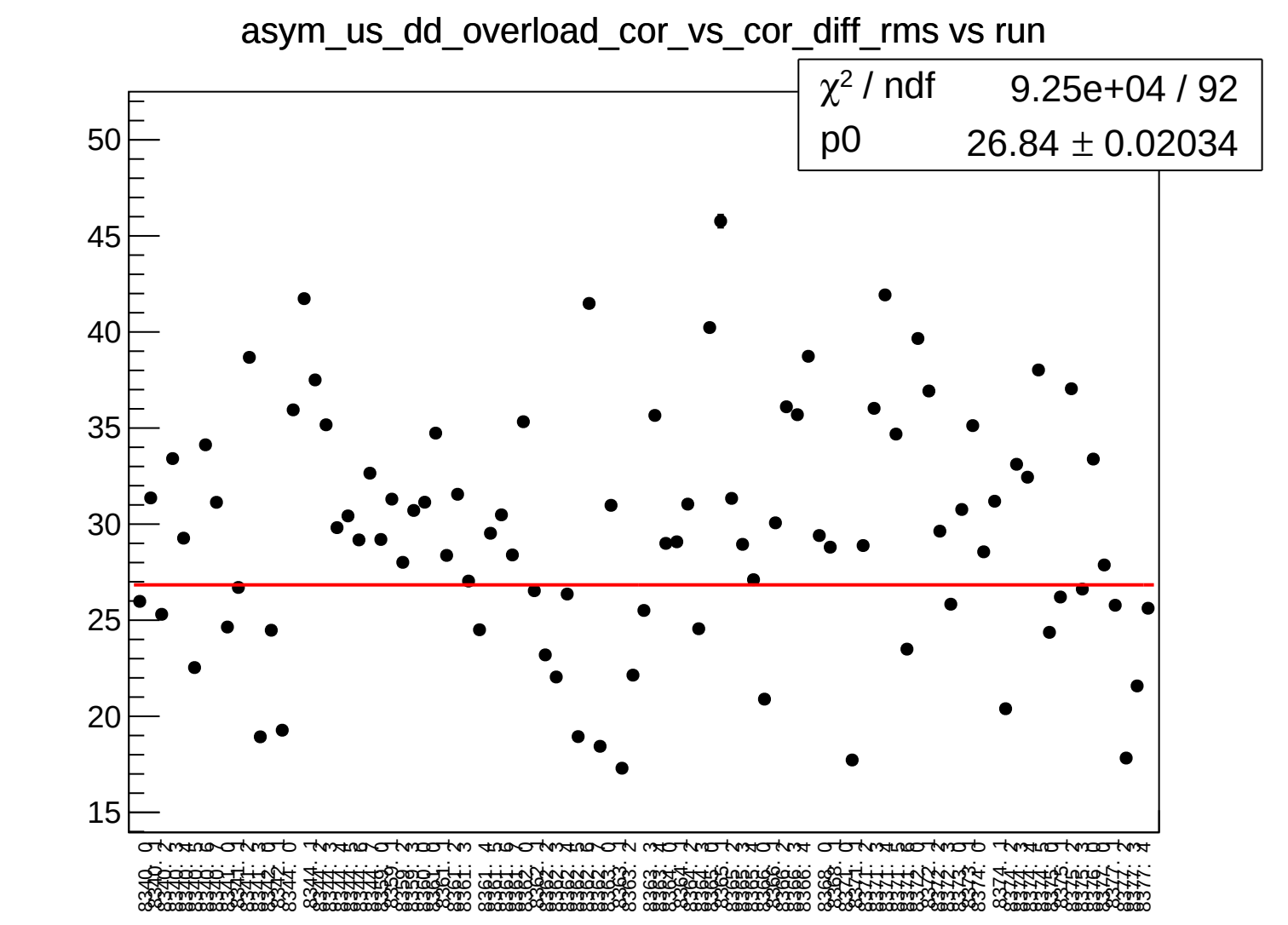

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.971e+04 / 92
p0 37.2 ± 0.02801
55
50
45
40
35
30
25
20

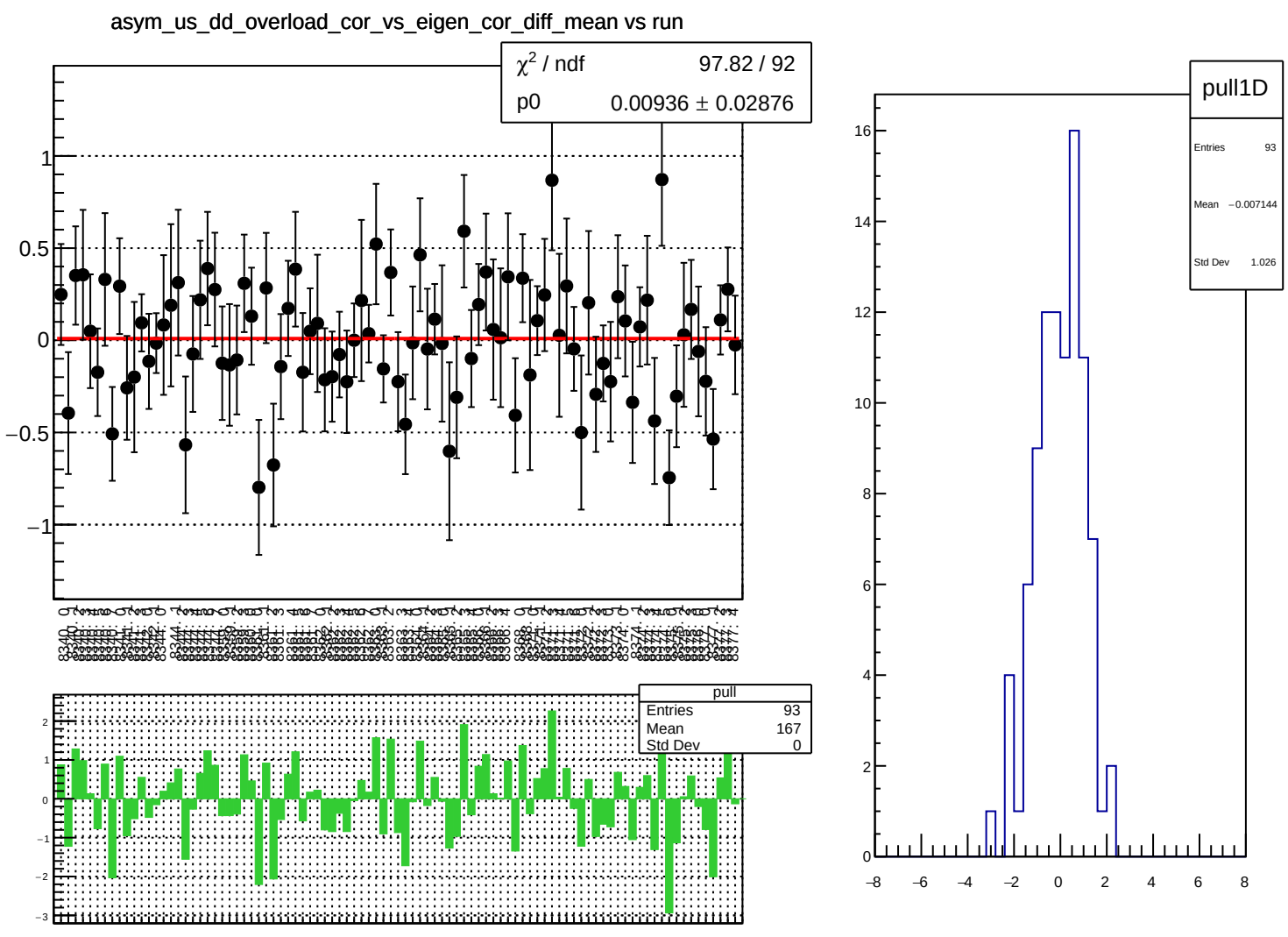

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.9 / 92
p0 2.907e−14 ± 9.396e−14
pull
Entries 93
Mean 62.82
Std Dev 35.56
pull1D
Entries 93
Mean −0.05907
Std Dev 1.075

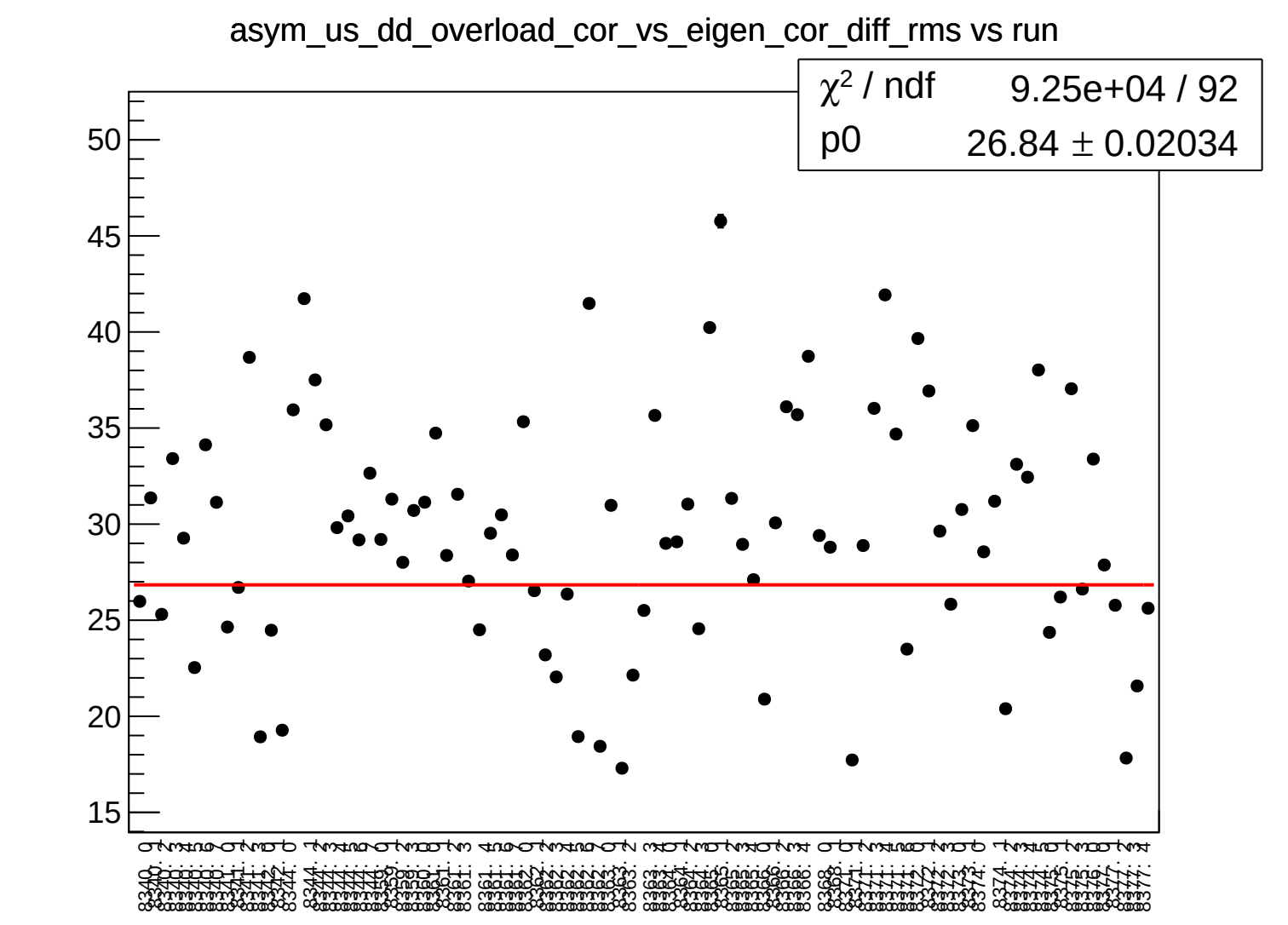

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.834e+05 / 92
p0 7.72e−11 ± 6.644e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

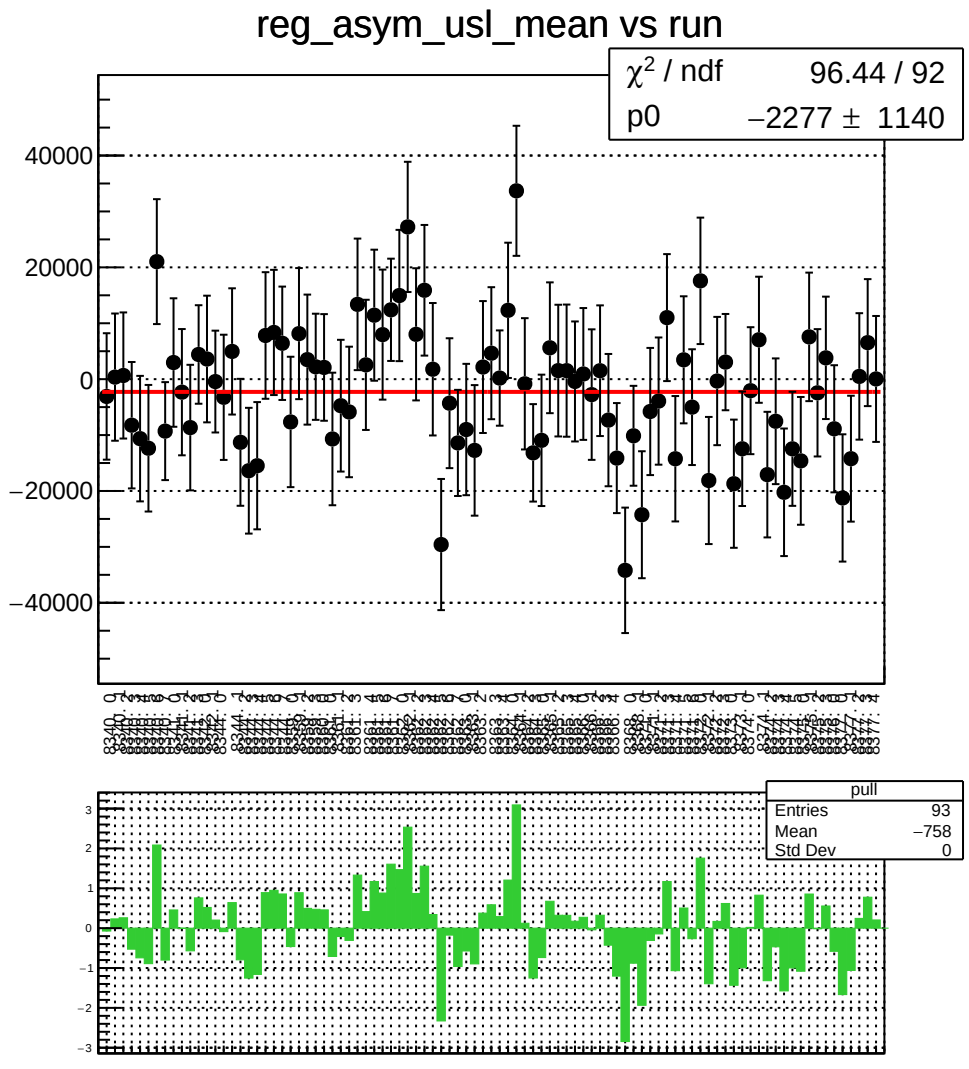

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 97.82 / 92
p0 0.00936 ± 0.02876
pull
Entries 93
Mean 167
Std Dev 0

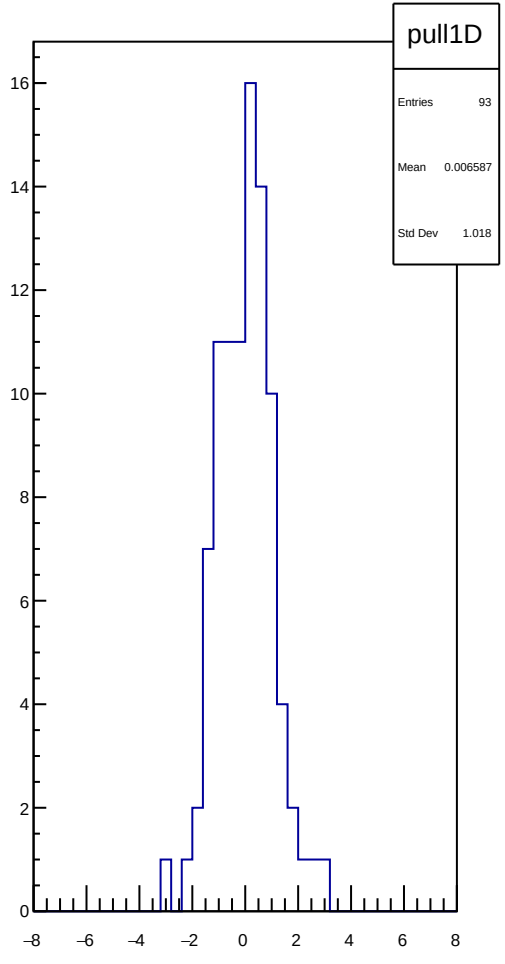

pull1D
Entries 93
Mean −0.007144
Std Dev 1.026

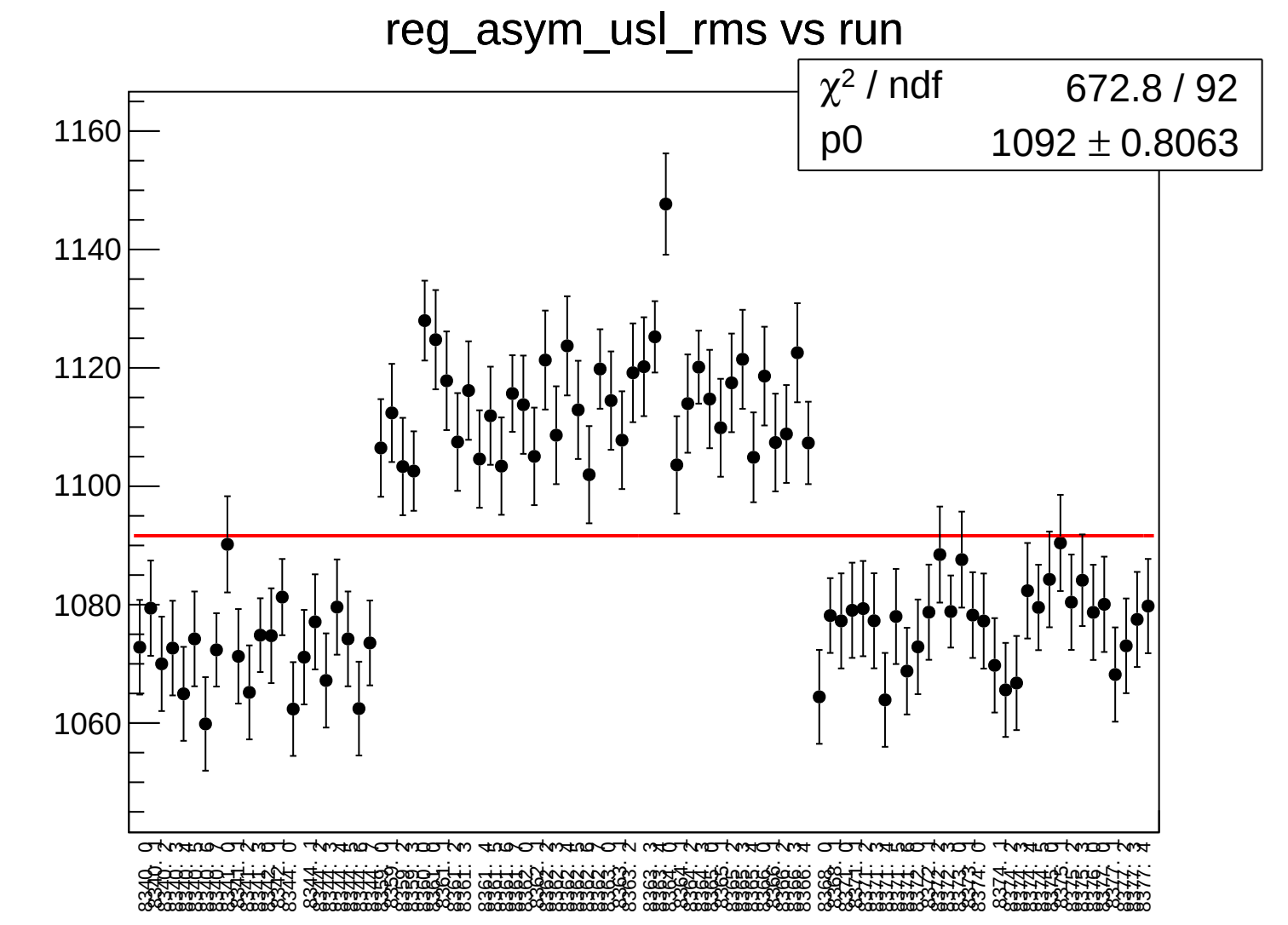

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.25e+04 / 92
p0 26.84 ± 0.02034
50
45
40
35
30
25
20
15

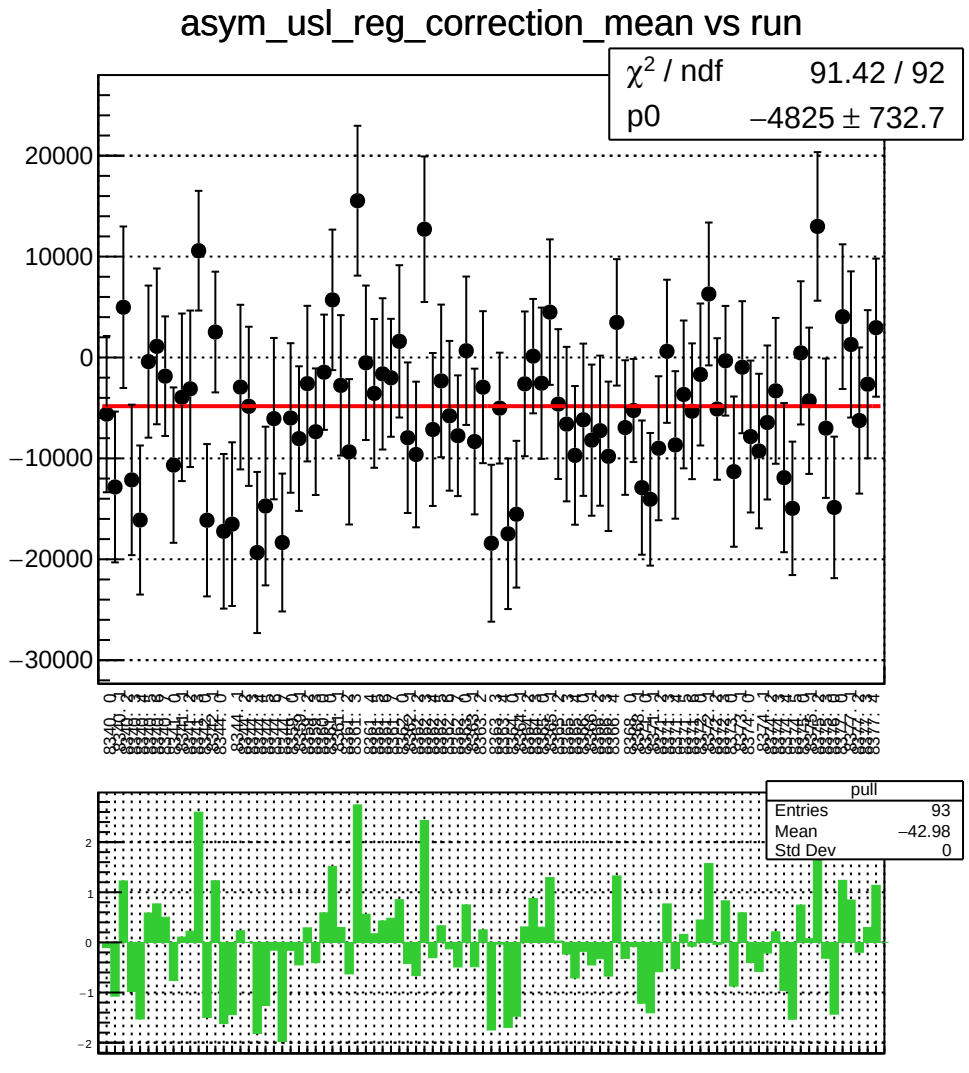

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.82 / 92
p0 0.00936 ± 0.02876
pull
Entries 93
Mean 167
Std Dev 0
pull1D
Entries 93
Mean −0.007144
Std Dev 1.026

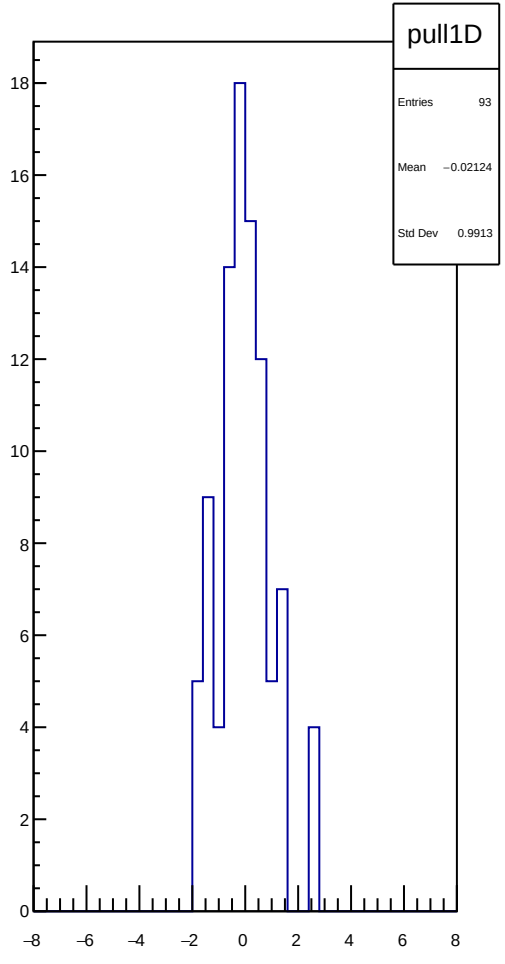

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.25e+04 / 92
p0 26.84 ± 0.02034
50
45
40
35
30
25
20
15

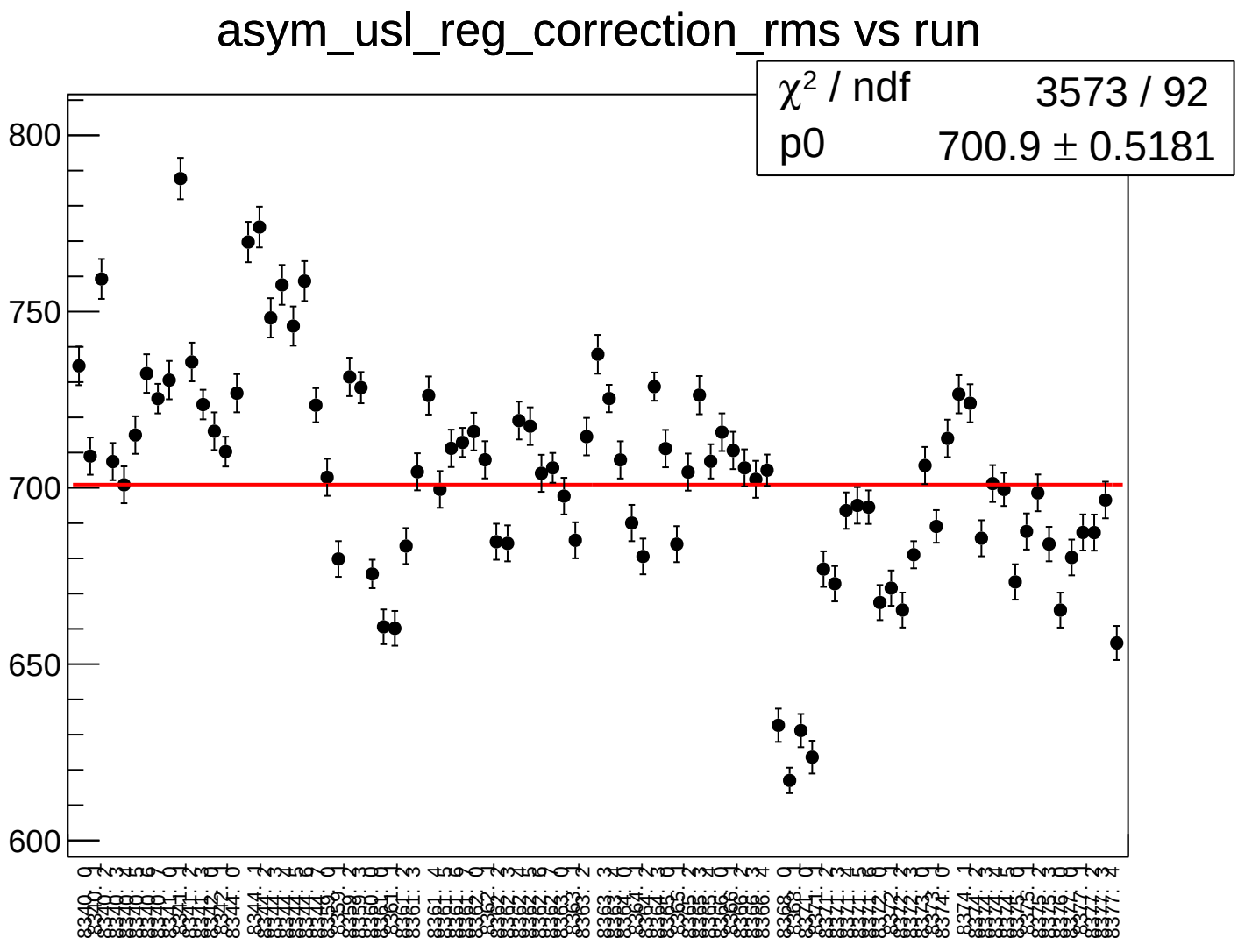

reg_asym_usl_mean vs run
χ² / ndf 96.44 / 92
p0 −2277 ± 1140
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −758
Std Dev 0
3
2
1
0
−1
−2
−3

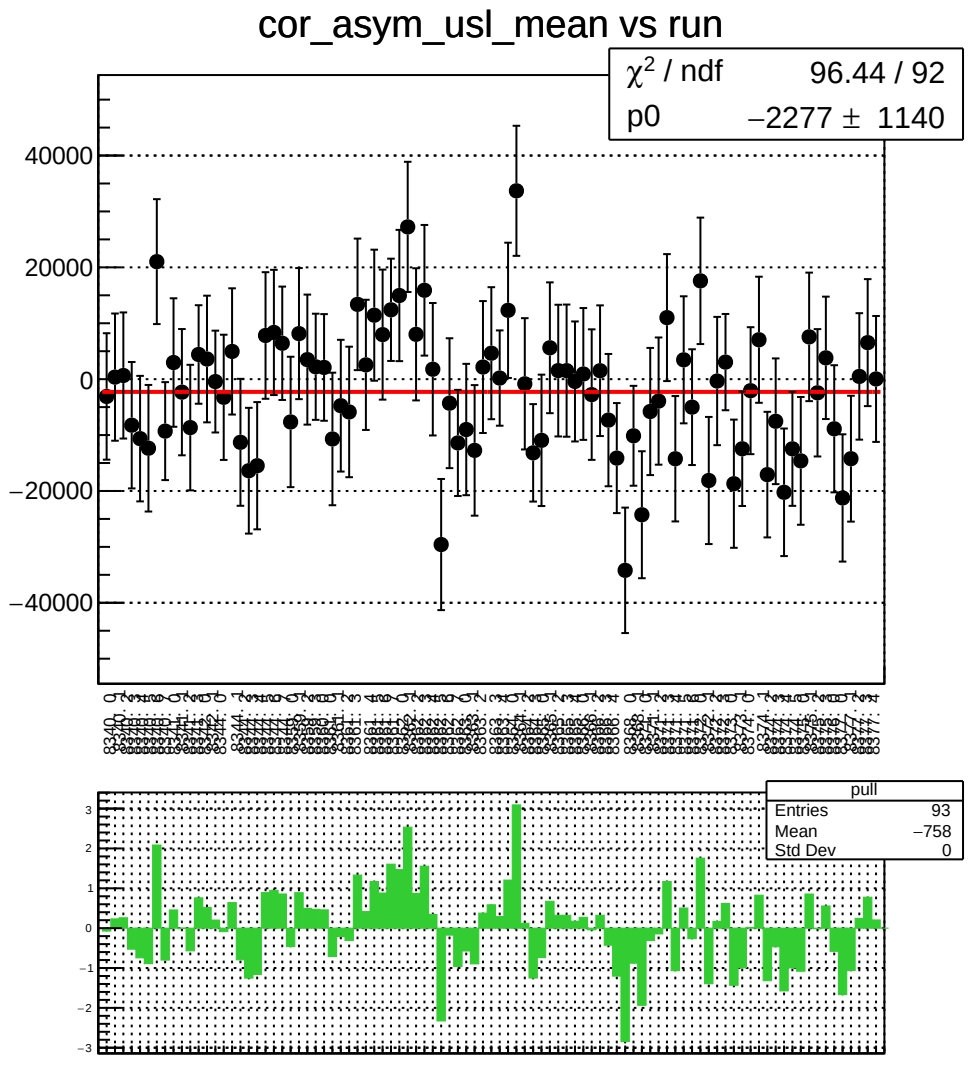

pull1D
Entries 93
Mean 0.006587
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

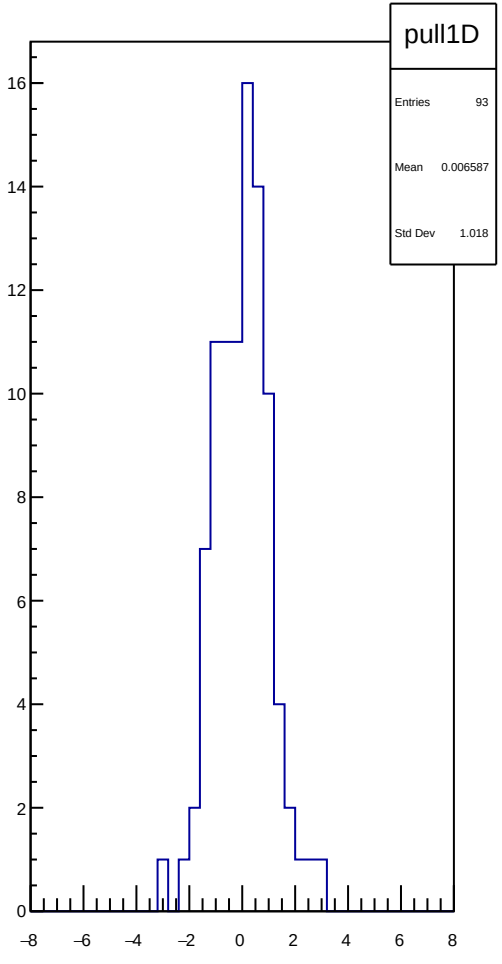

reg_asym_usl_rms vs run
χ² / ndf 672.8 / 92
p0 1092 ± 0.8063
1160
1140
1120
1100
1080
1060

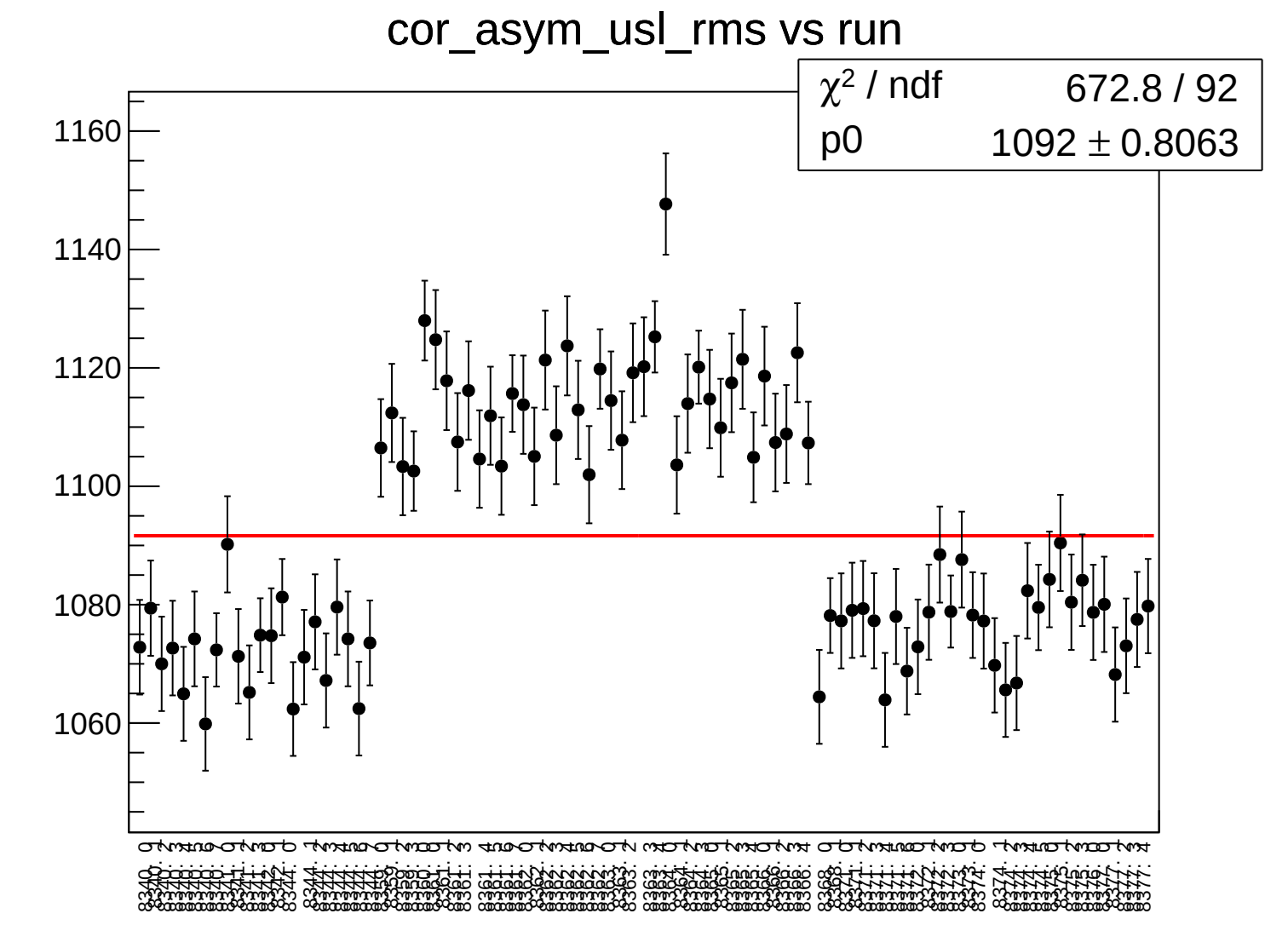

asym_usl_reg_correction_mean vs run
χ² / ndf 91.42 / 92
p0 −4825 ± 732.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −42.98
Std Dev 0
2
1
0
−1
−2

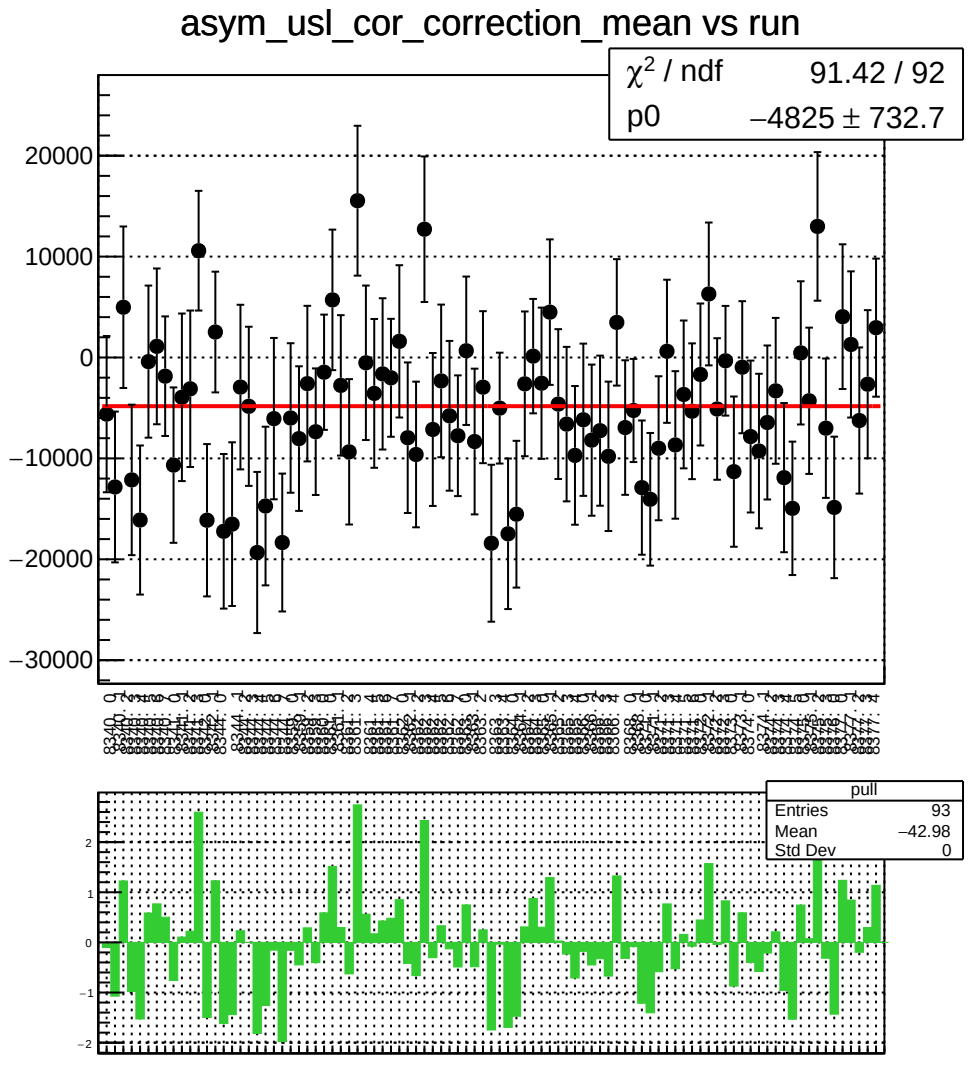

pull1D
Entries 93
Mean −0.02124
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

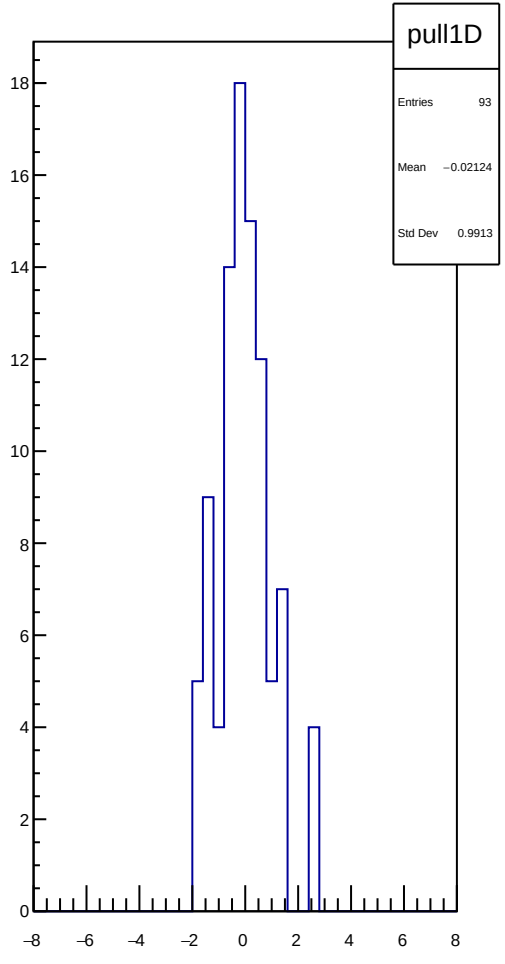

asym_usl_reg_correction_rms vs run
χ² / ndf 3573 / 92
p0 700.9 ± 0.5181
800
750
700
650
600

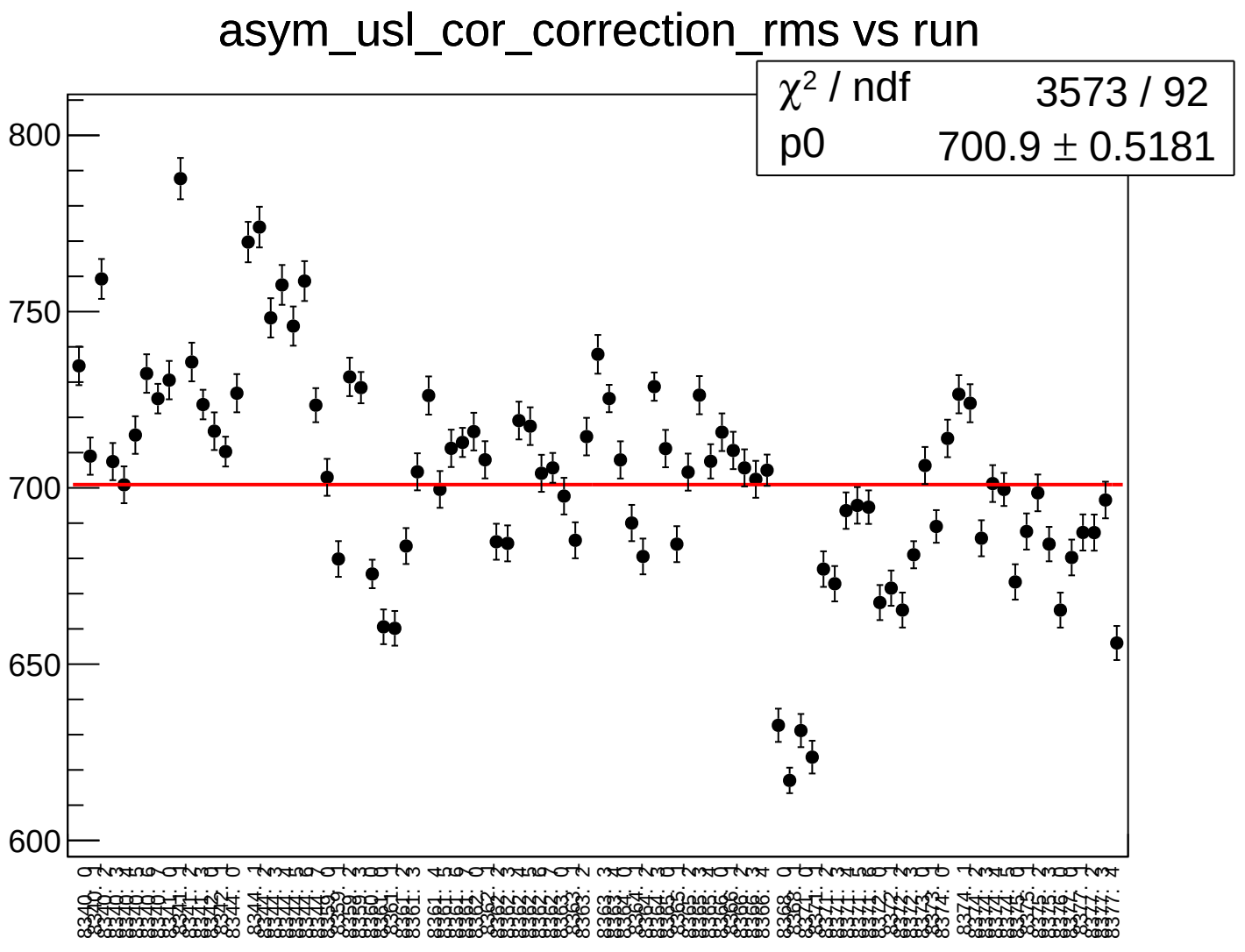

cor_asym_usl_mean vs run
χ² / ndf 96.44 / 92
p0 −2277 ± 1140
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −758
Std Dev 0
3
2
1
0
−1
−2
−3

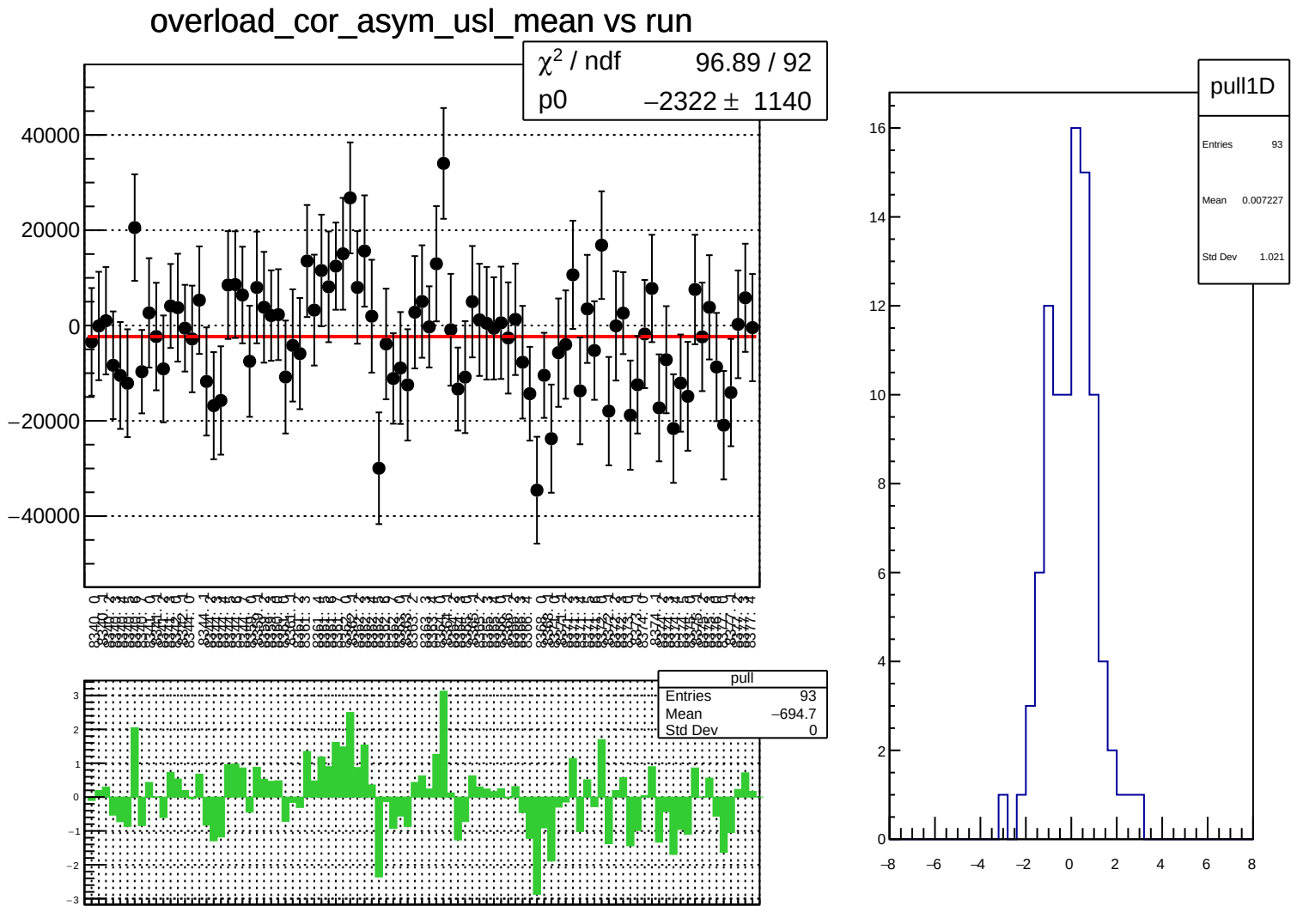

pull1D
Entries 93
Mean 0.006587
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

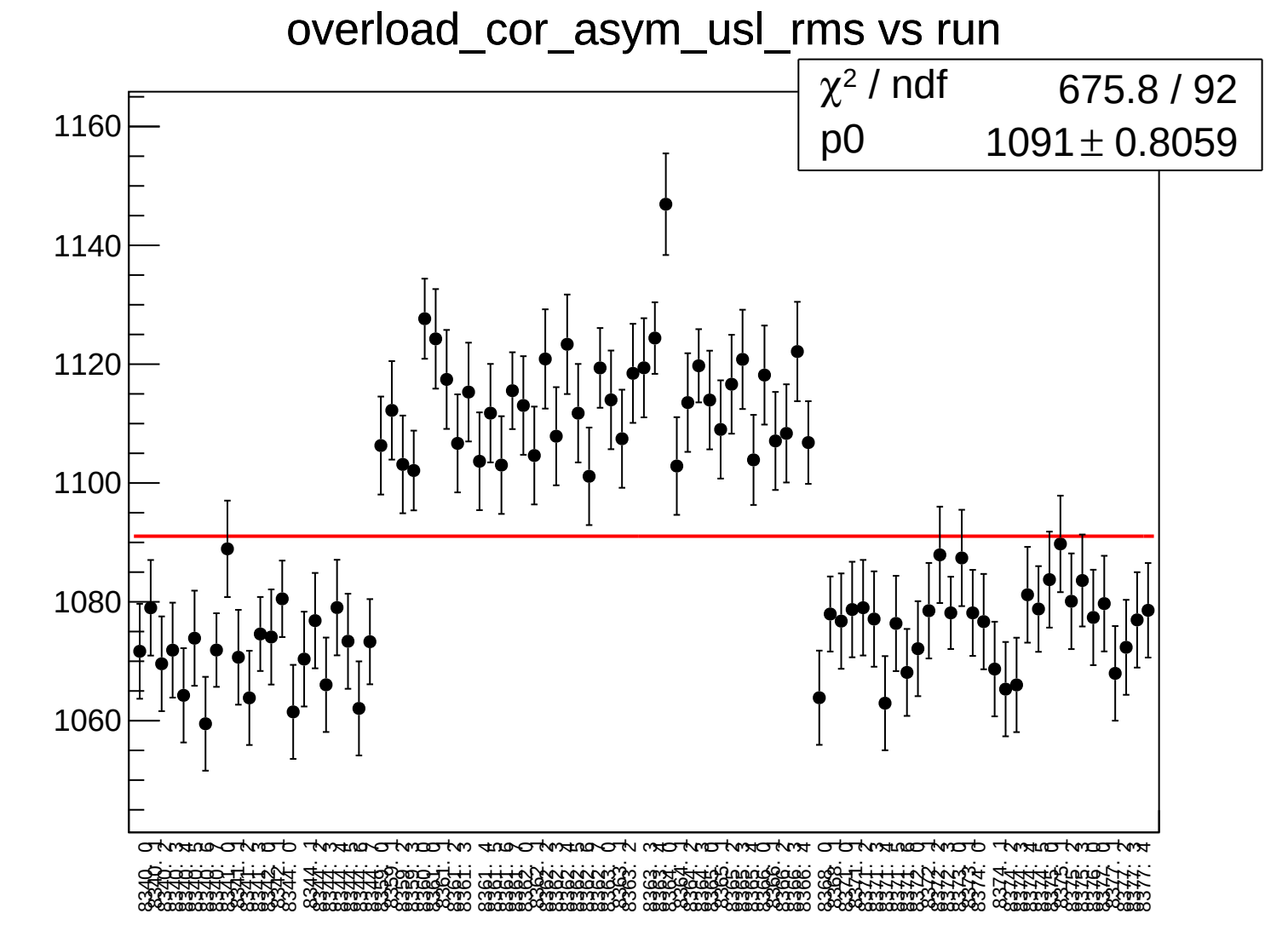

cor_asym_usl_rms vs run
χ² / ndf 672.8 / 92
p0 1092 ± 0.8063
1160
1140
1120
1100
1080
1060

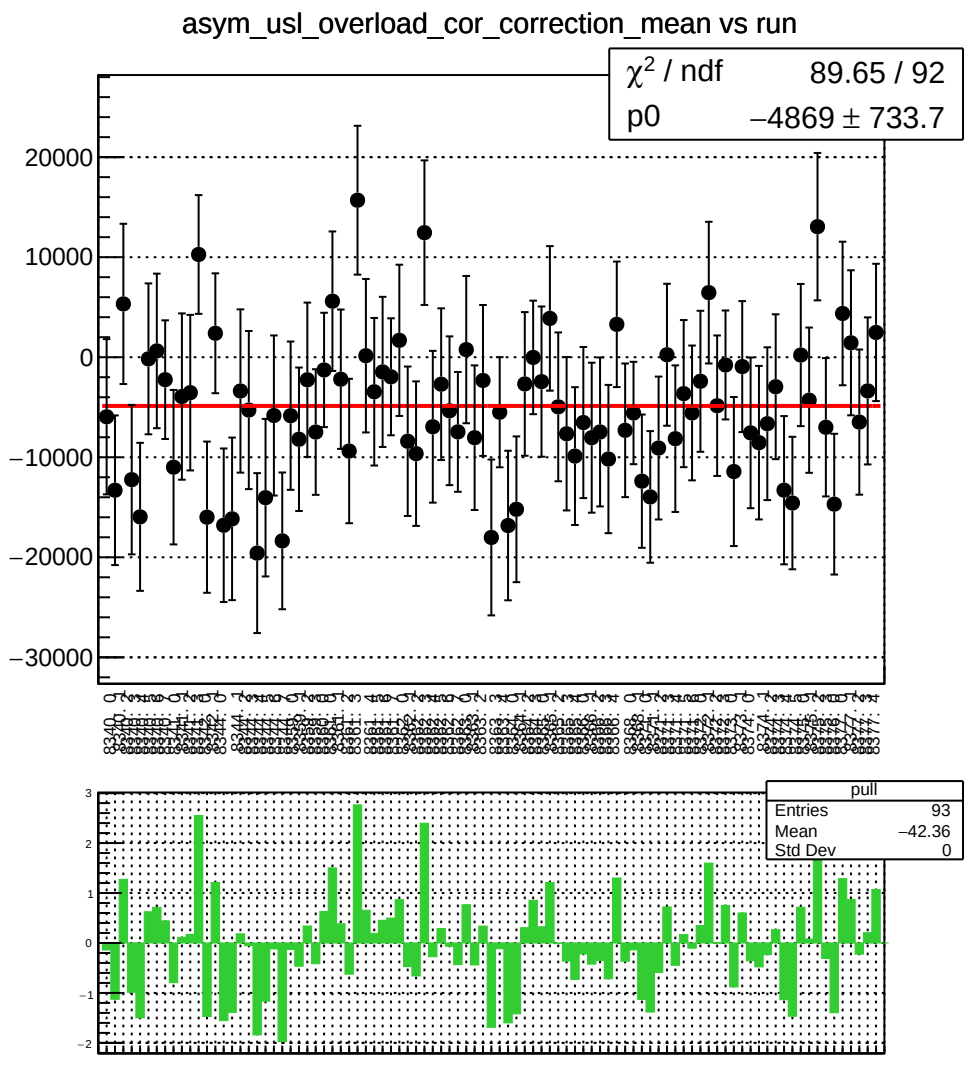

asym_usl_cor_correction_mean vs run
χ² / ndf 91.42 / 92
p0 −4825 ± 732.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −42.98
Std Dev 0
2
1
0
−1
−2

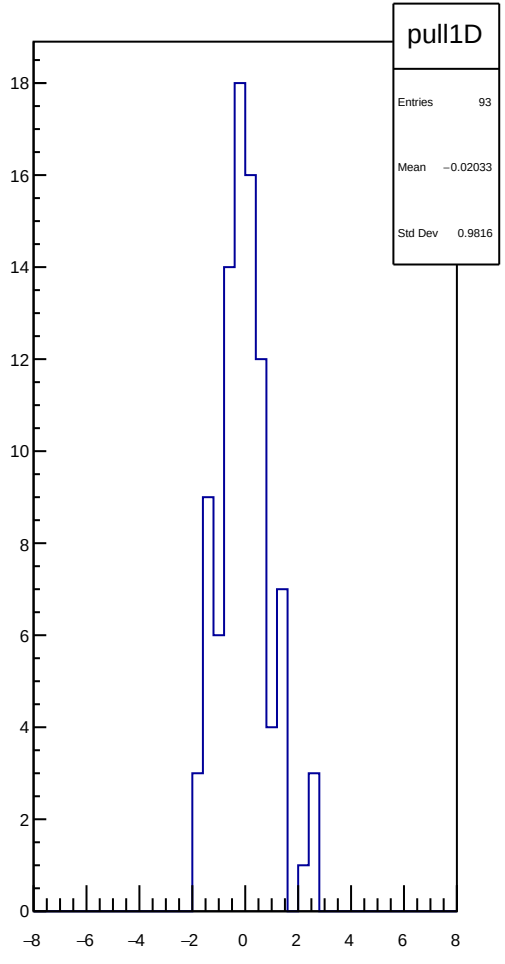

pull1D
Entries 93
Mean −0.02124
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

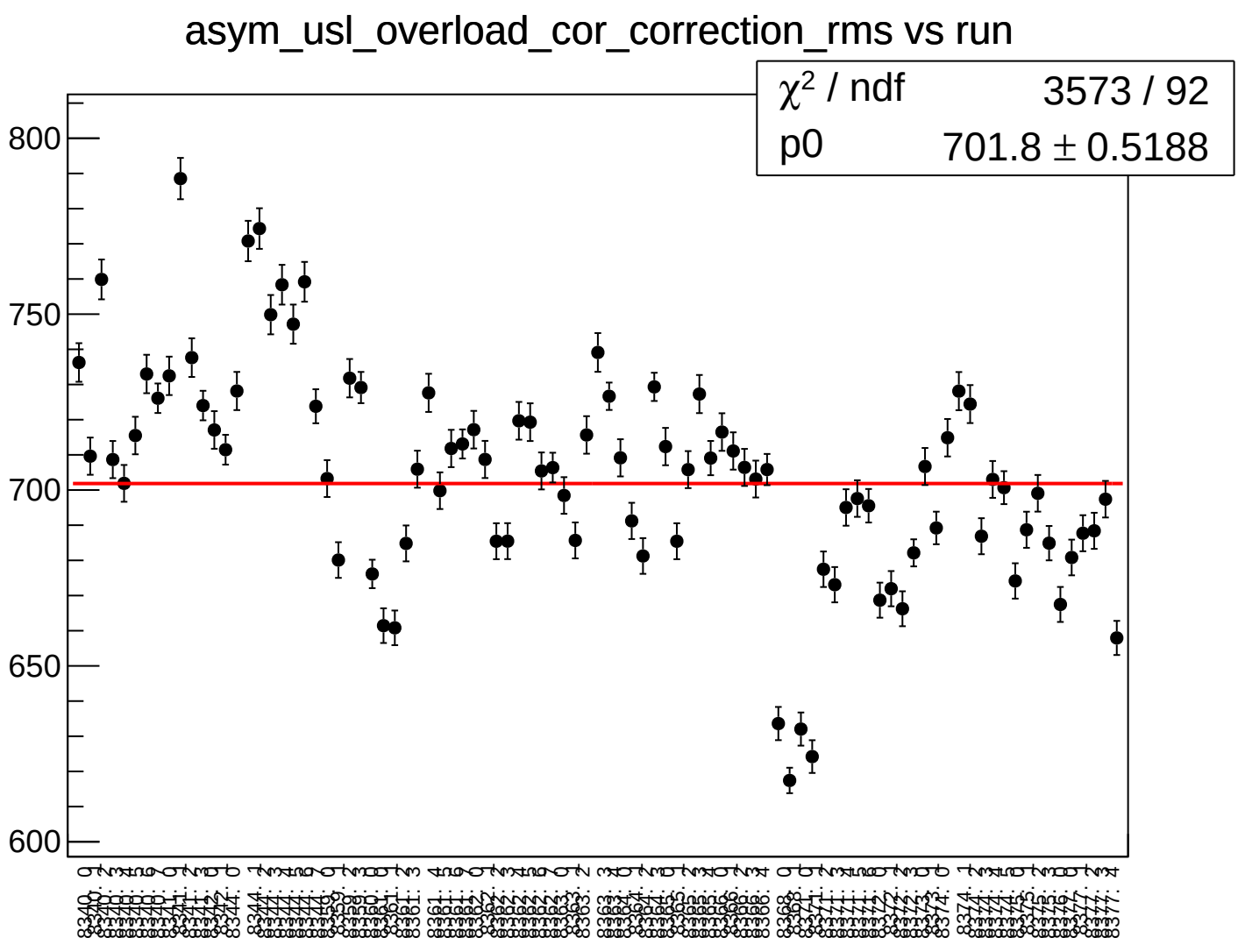

asym_usl_cor_correction_rms vs run
χ² / ndf 3573 / 92
p0 700.9 ± 0.5181
800
750
700
650
600

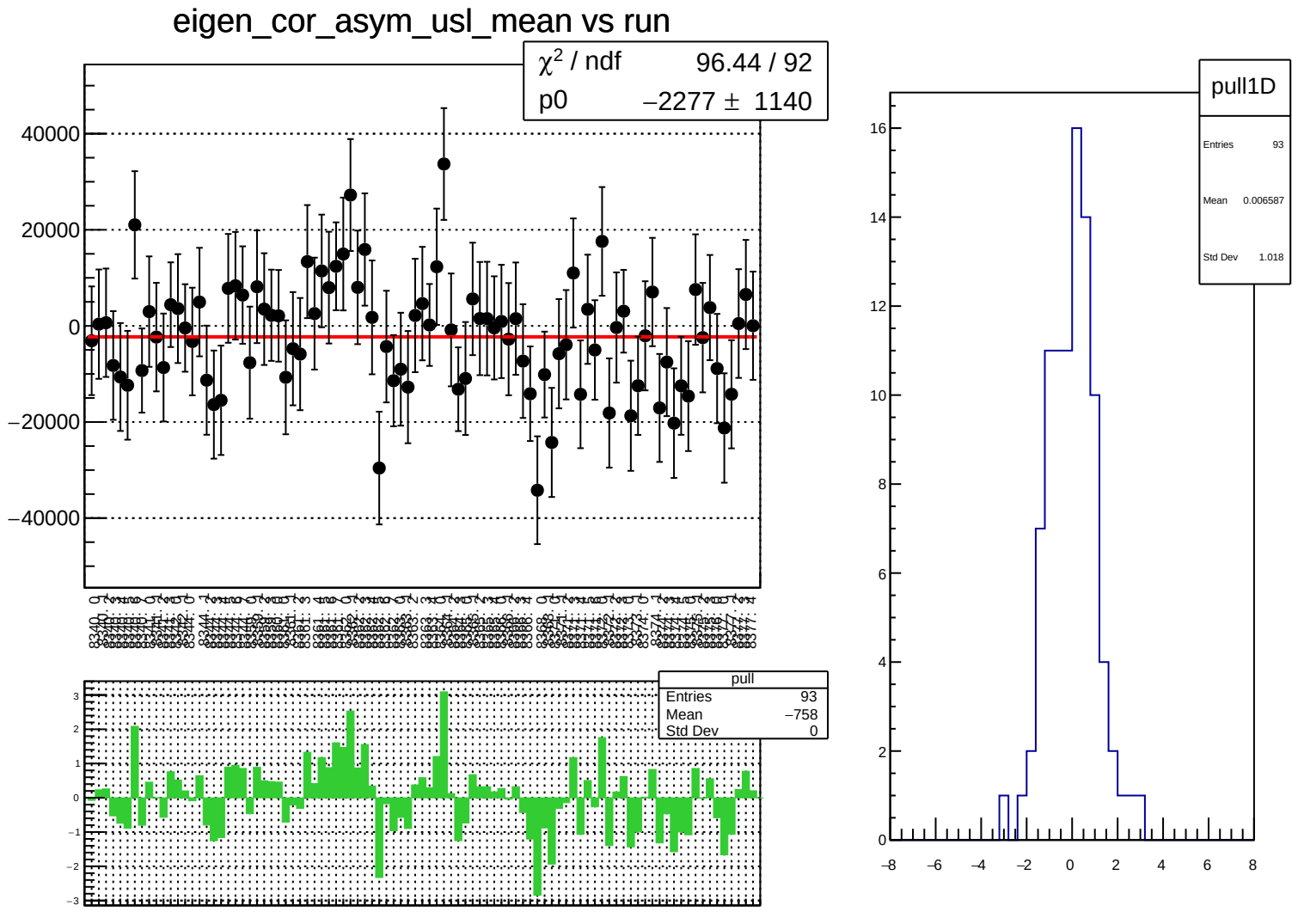

overload_cor_asym_usl_mean vs run
χ² / ndf 96.89 / 92
p0 −2322 ± 1140
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −694.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.007227
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

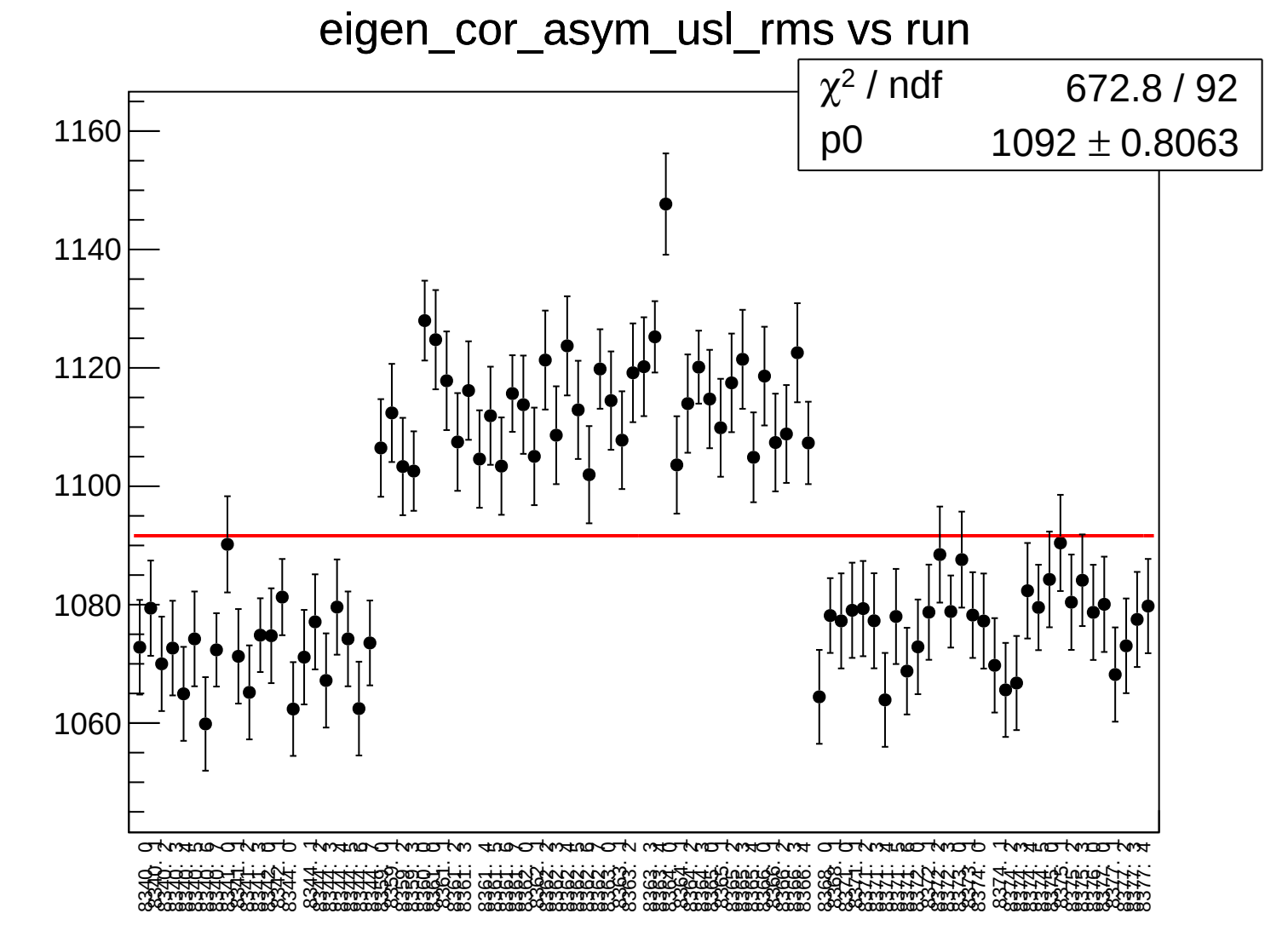

overload_cor_asym_usl_rms vs run
χ² / ndf 675.8 / 92
p0 1091 ± 0.8059
1160
1140
1120
1100
1080
1060

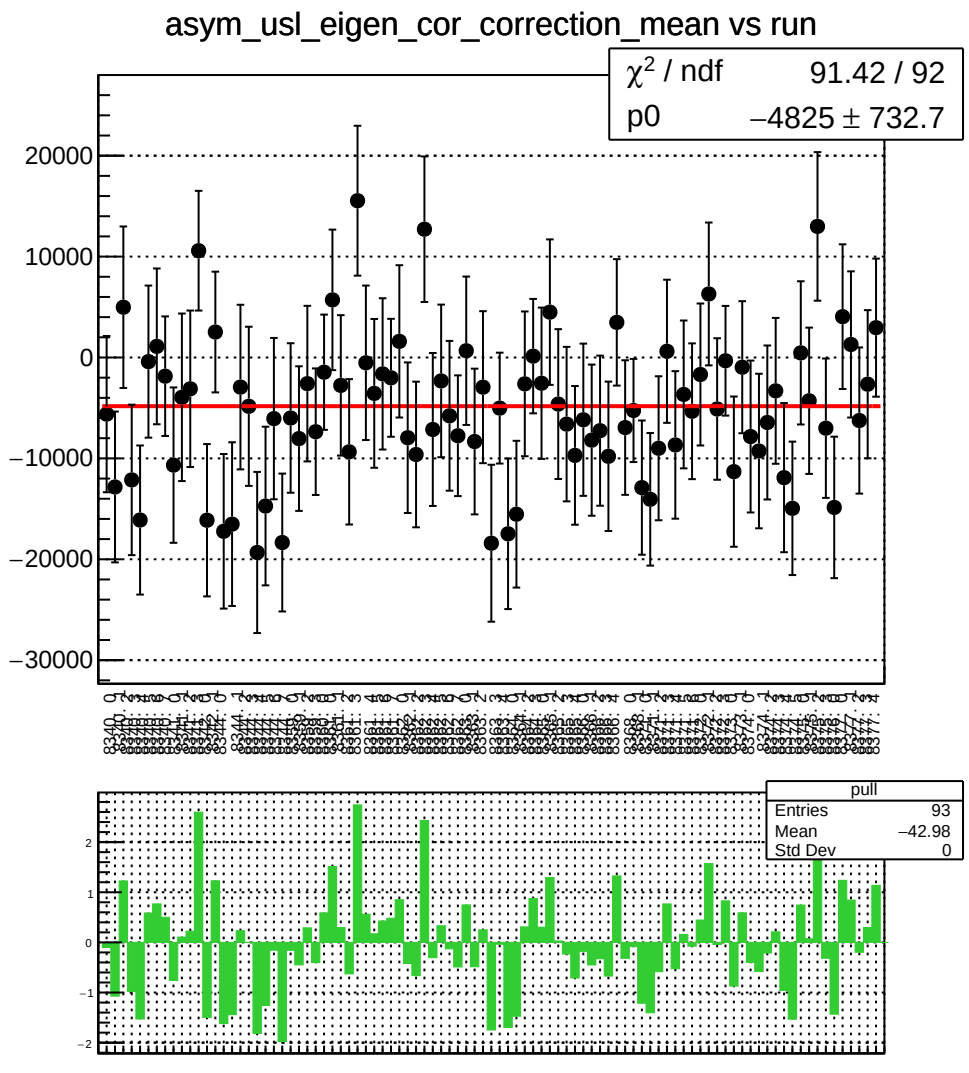

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 89.65 / 92
p0 −4869 ± 733.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −42.36
Std Dev 0
3
2
1
0
−1
−2

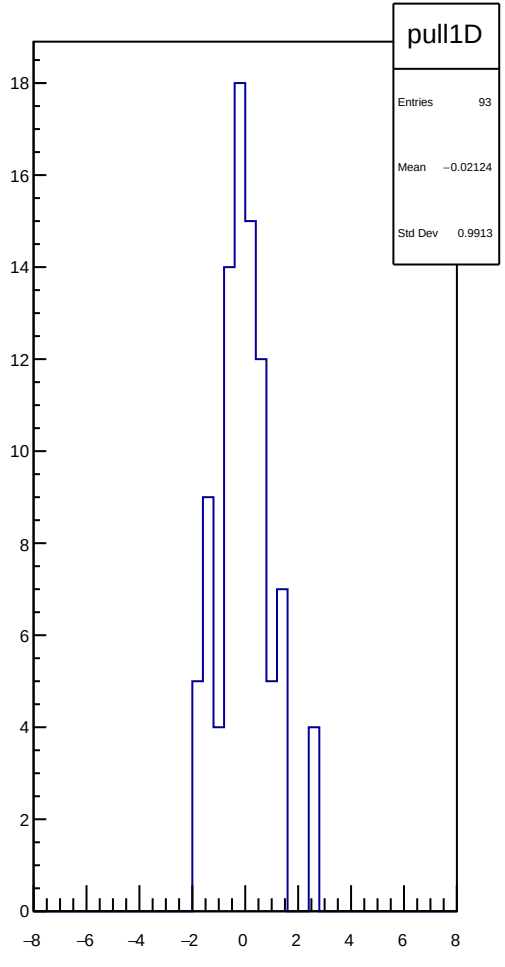

pull1D
Entries 93
Mean −0.02033
Std Dev 0.9816
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

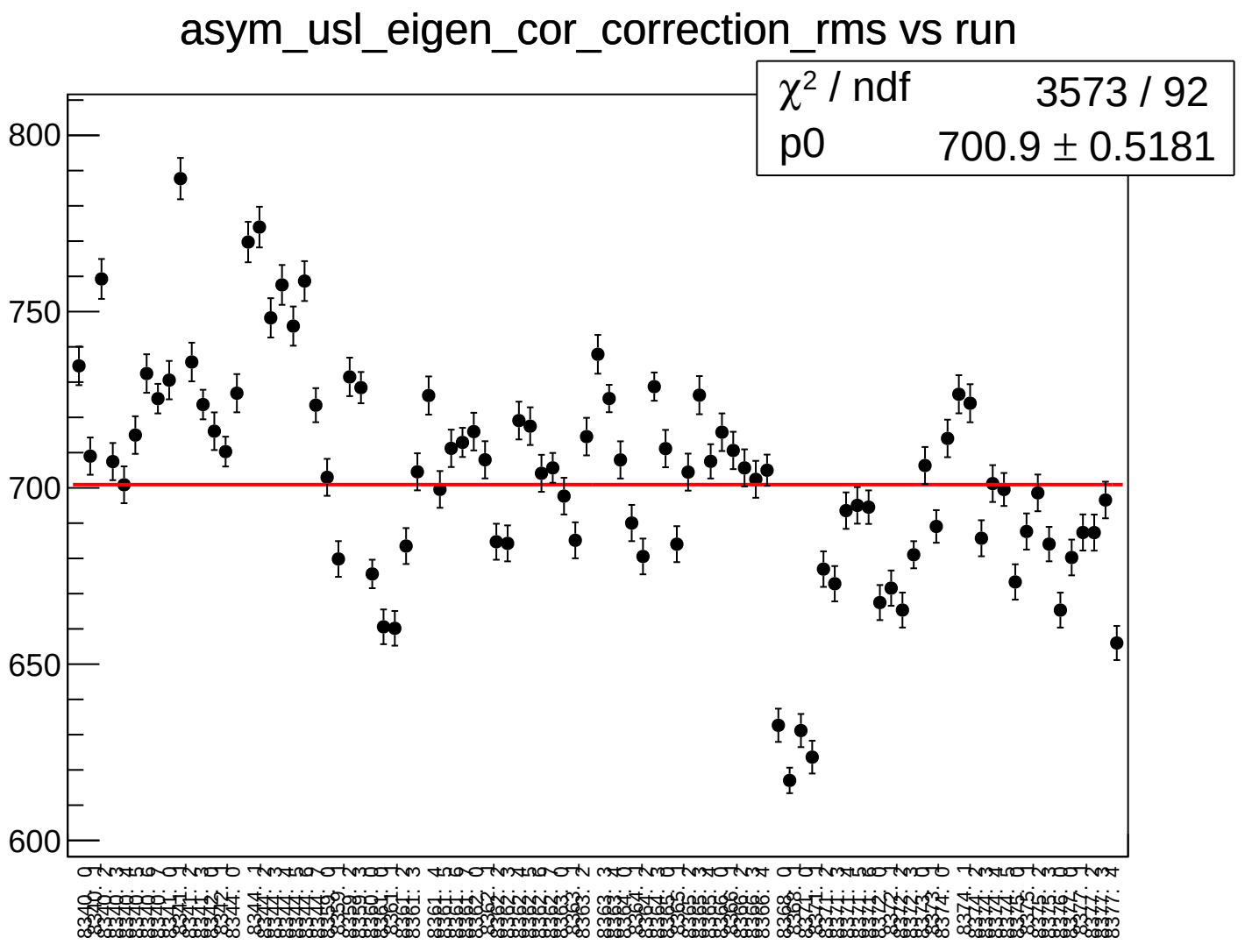

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 3573 / 92
p0 701.8 ± 0.5188
800
750
700
650
600

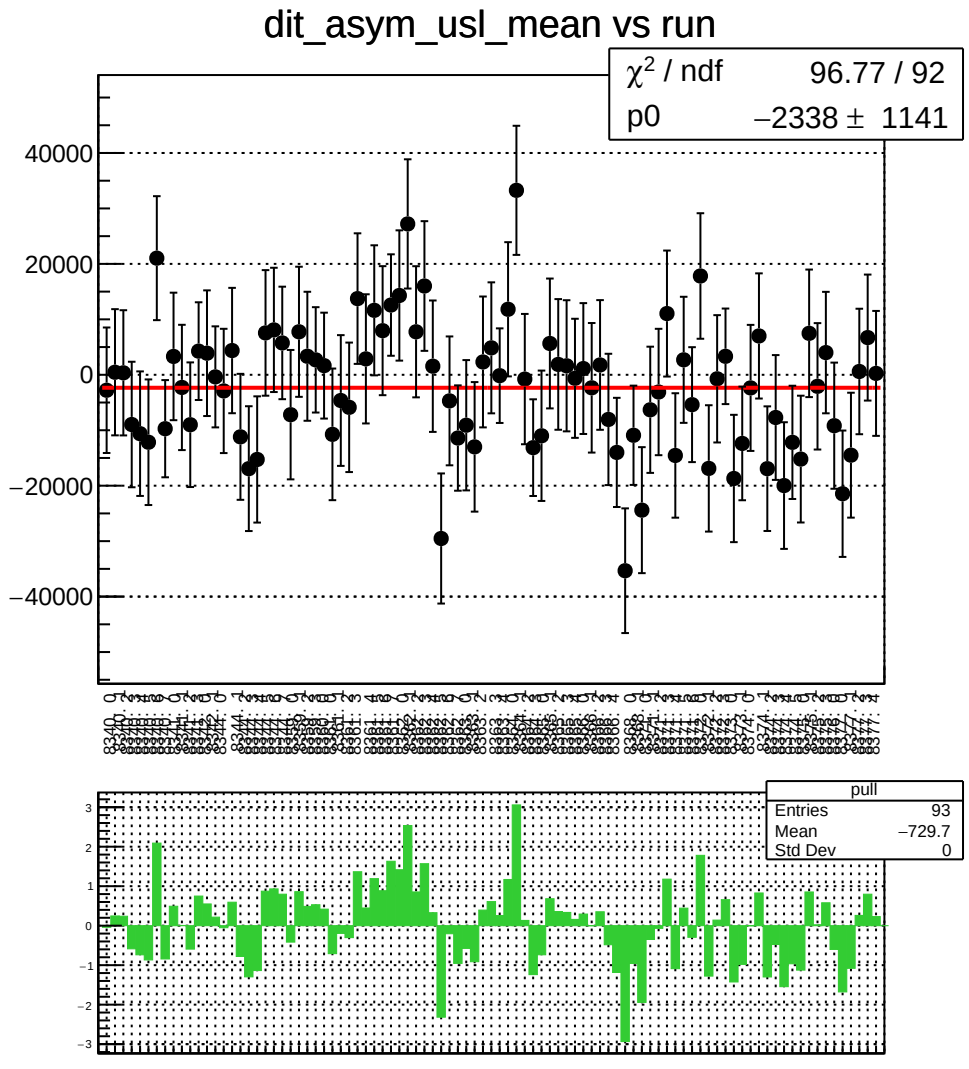

eigen_cor_asym_usl_mean vs run
χ² / ndf 96.44 / 92
p0 −2277 ± 1140
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −758
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.006587
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

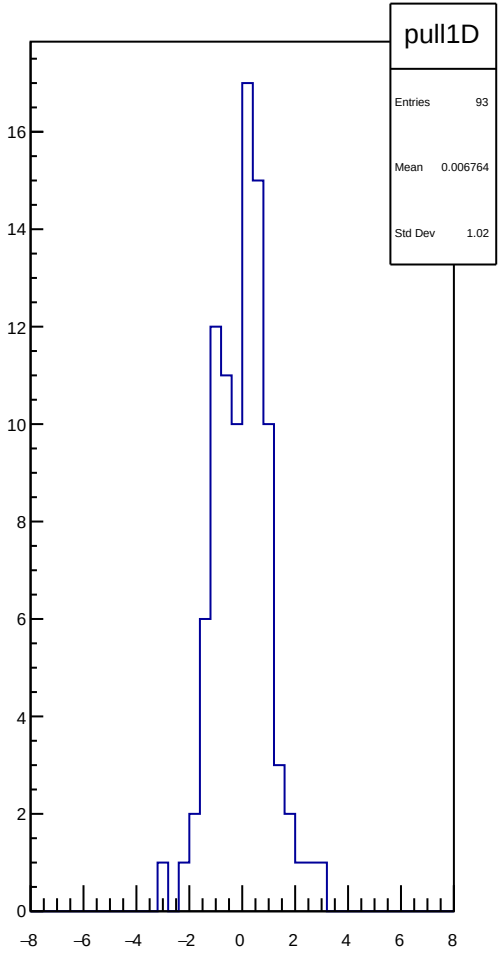

eigen_cor_asym_usl_rms vs run
χ² / ndf 672.8 / 92
p0 1092 ± 0.8063
1160
1140
1120
1100
1080
1060

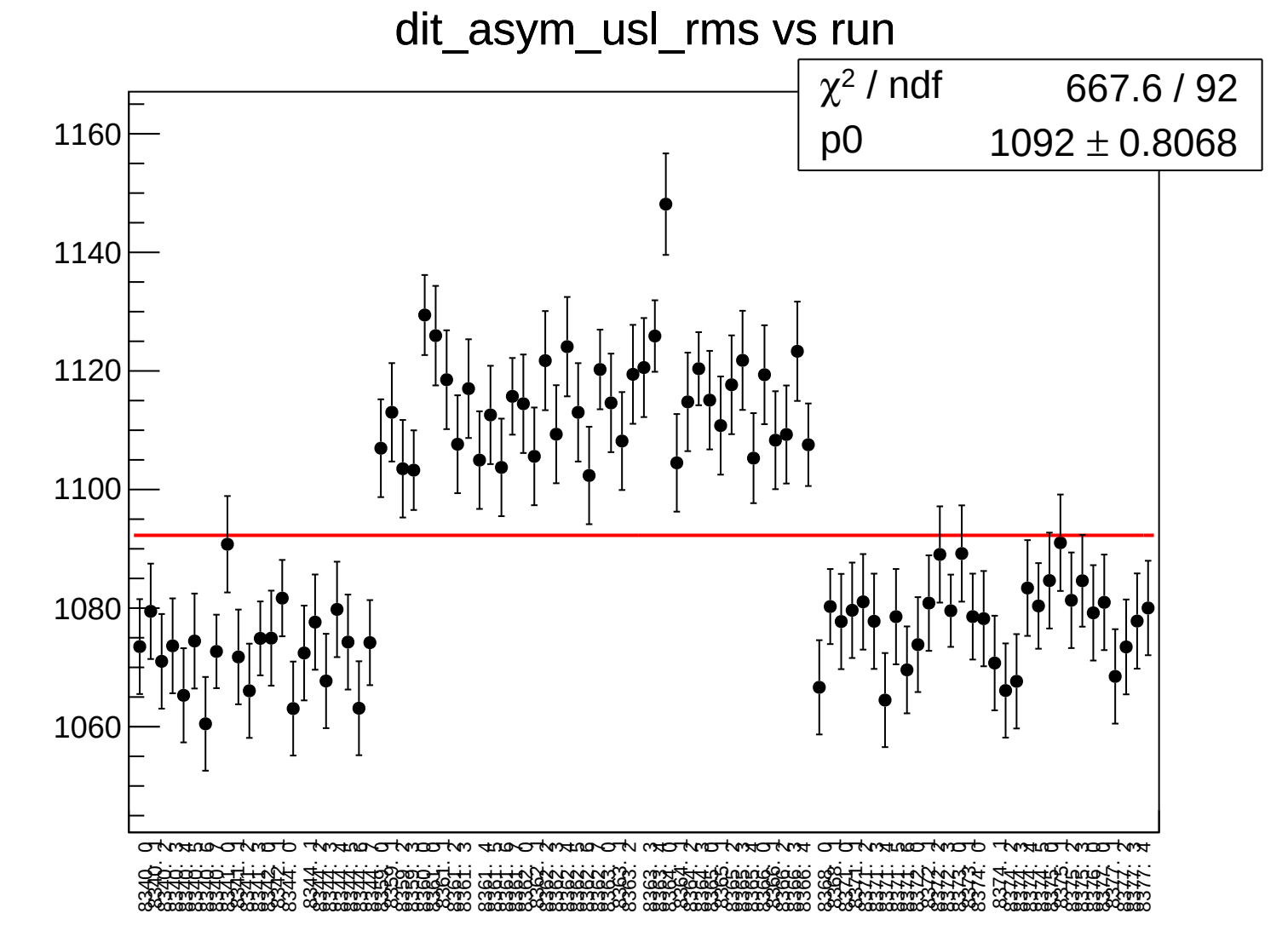

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 91.42 / 92
p0 −4825 ± 732.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −42.98
Std Dev 0
2
1
0
−1
−2

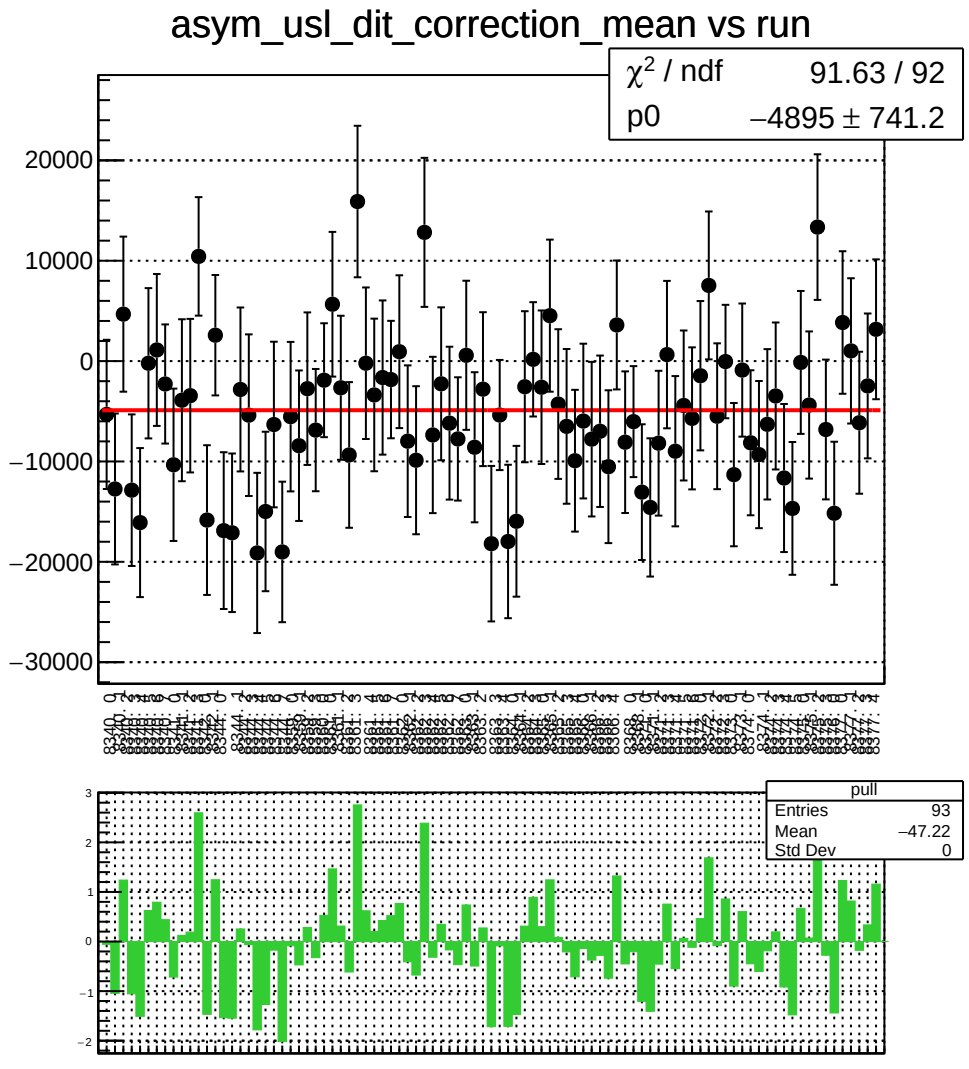

pull1D
Entries 93
Mean −0.02124
Std Dev 0.9913
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

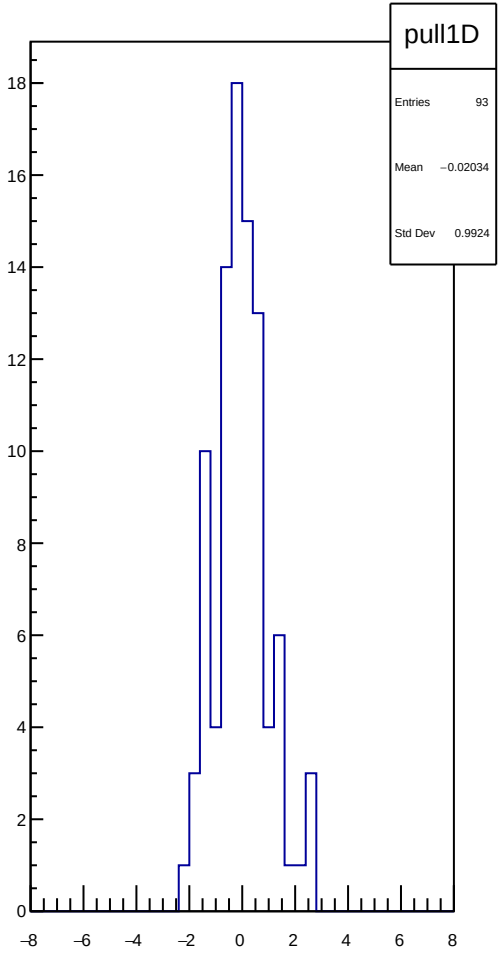

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 3573 / 92
p0 700.9 ± 0.5181
800
750
700
650
600

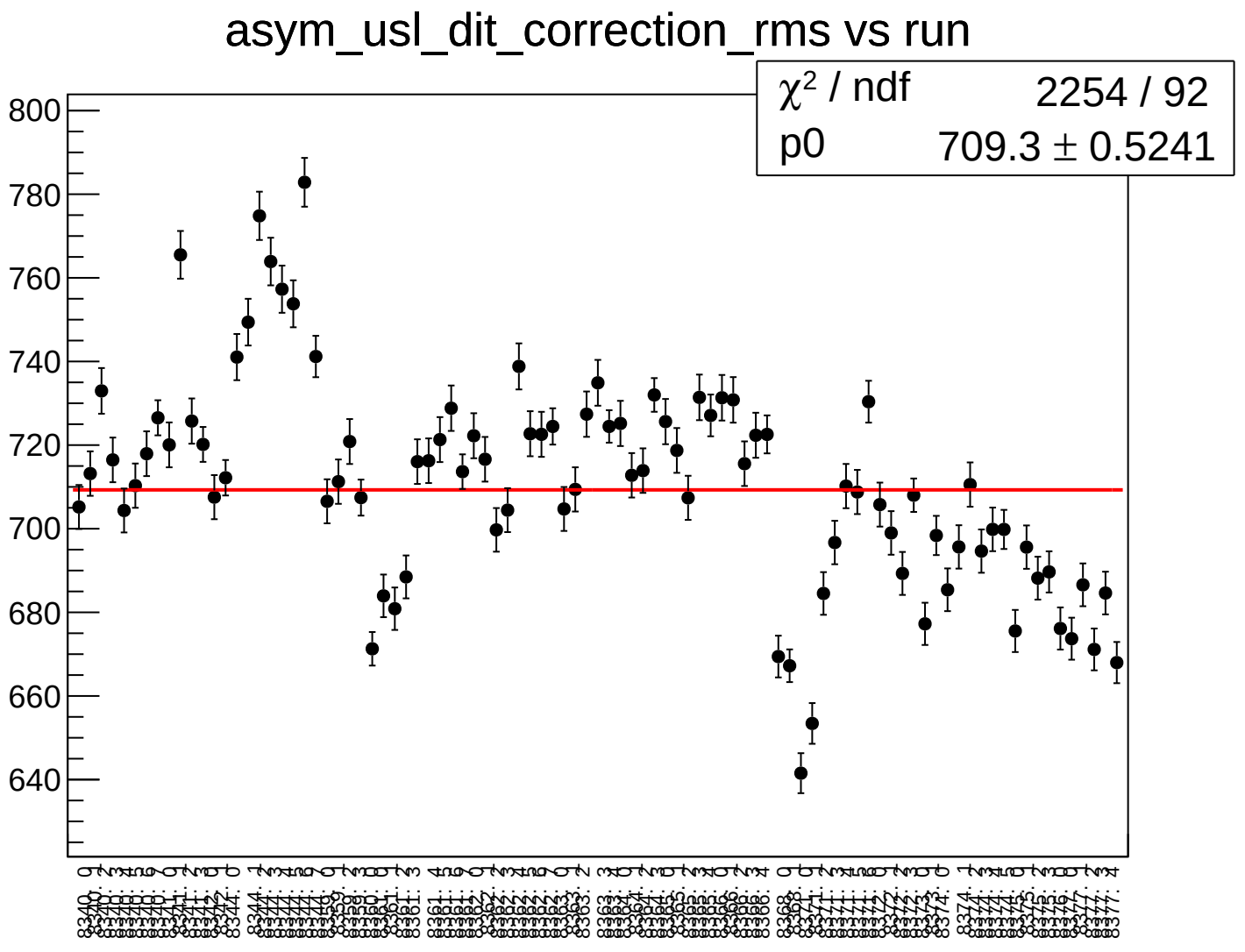

dit_asym_usl_mean vs run
χ² / ndf 96.77 / 92
p0 −2338 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −729.7
Std Dev 0
3
2
1
0
−1
−2
−3

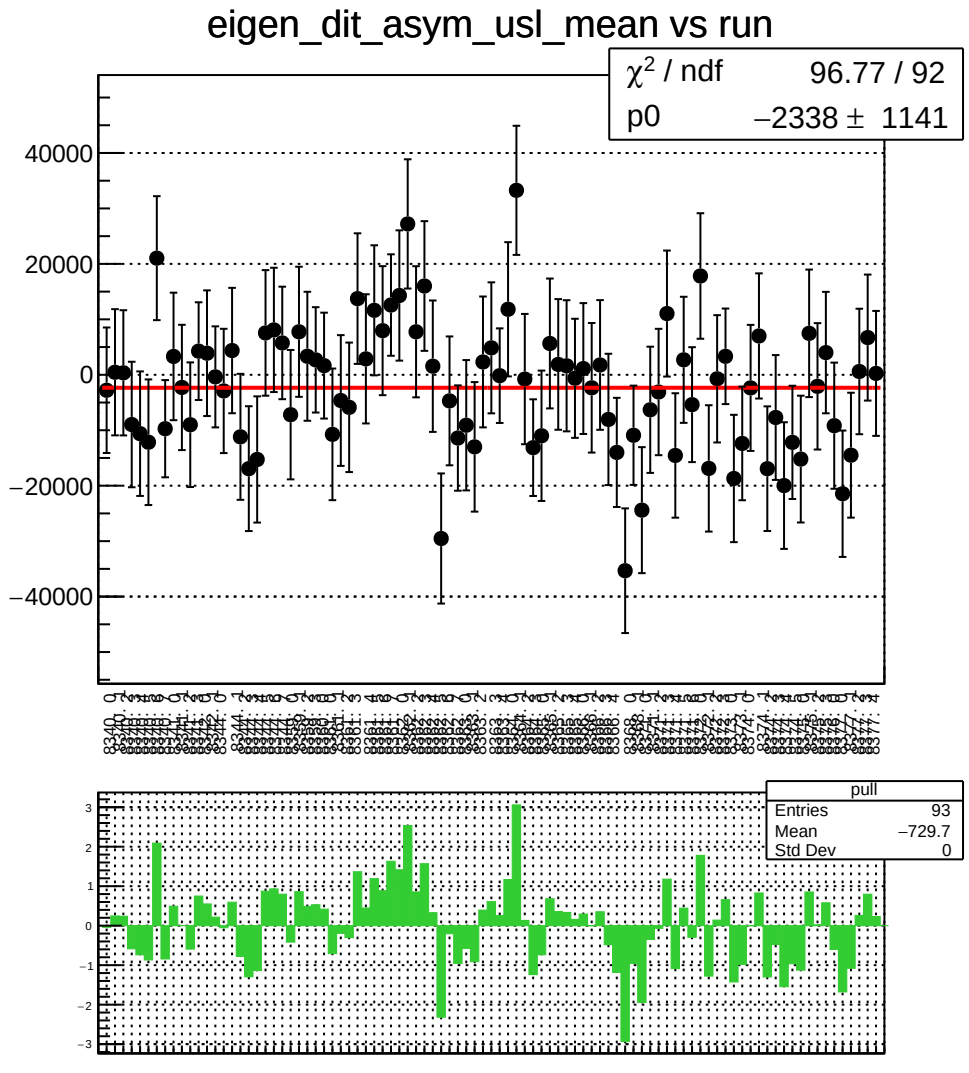

pull1D
Entries 93
Mean 0.006764
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

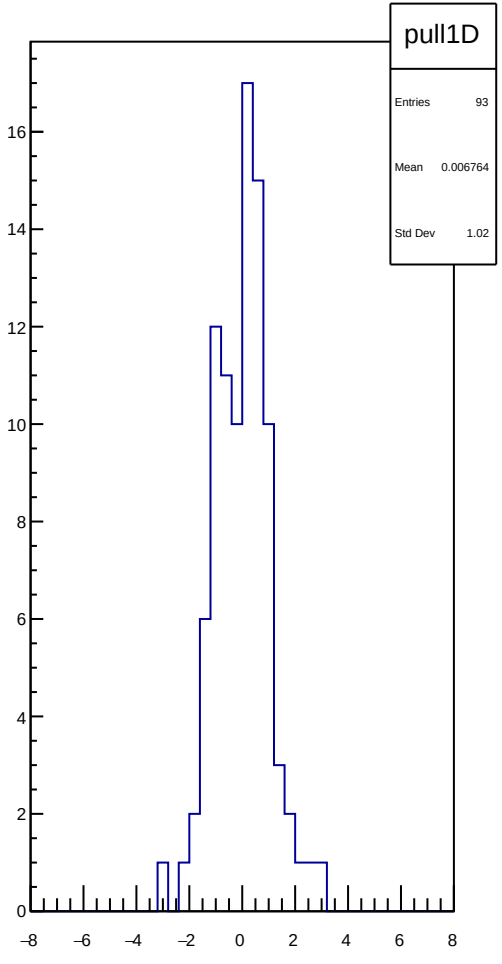

dit_asym_usl_rms vs run
χ² / ndf 667.6 / 92
p0 1092 ± 0.8068
1160
1140
1120
1100
1080
1060

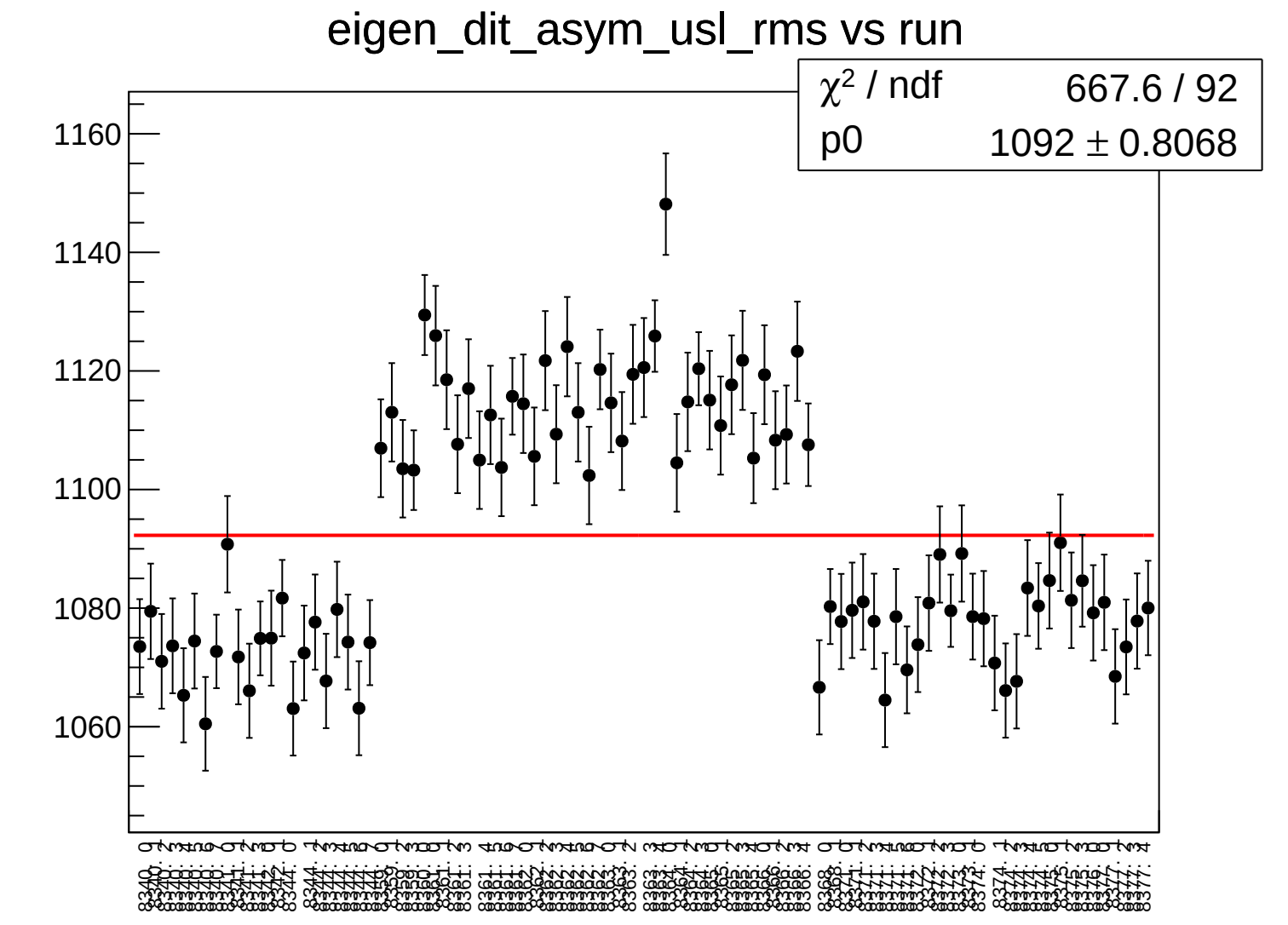

asym_usl_dit_correction_mean vs run
χ² / ndf 91.63 / 92
p0 −4895 ± 741.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −47.22
Std Dev 0
3
2
1
0
−1
−2

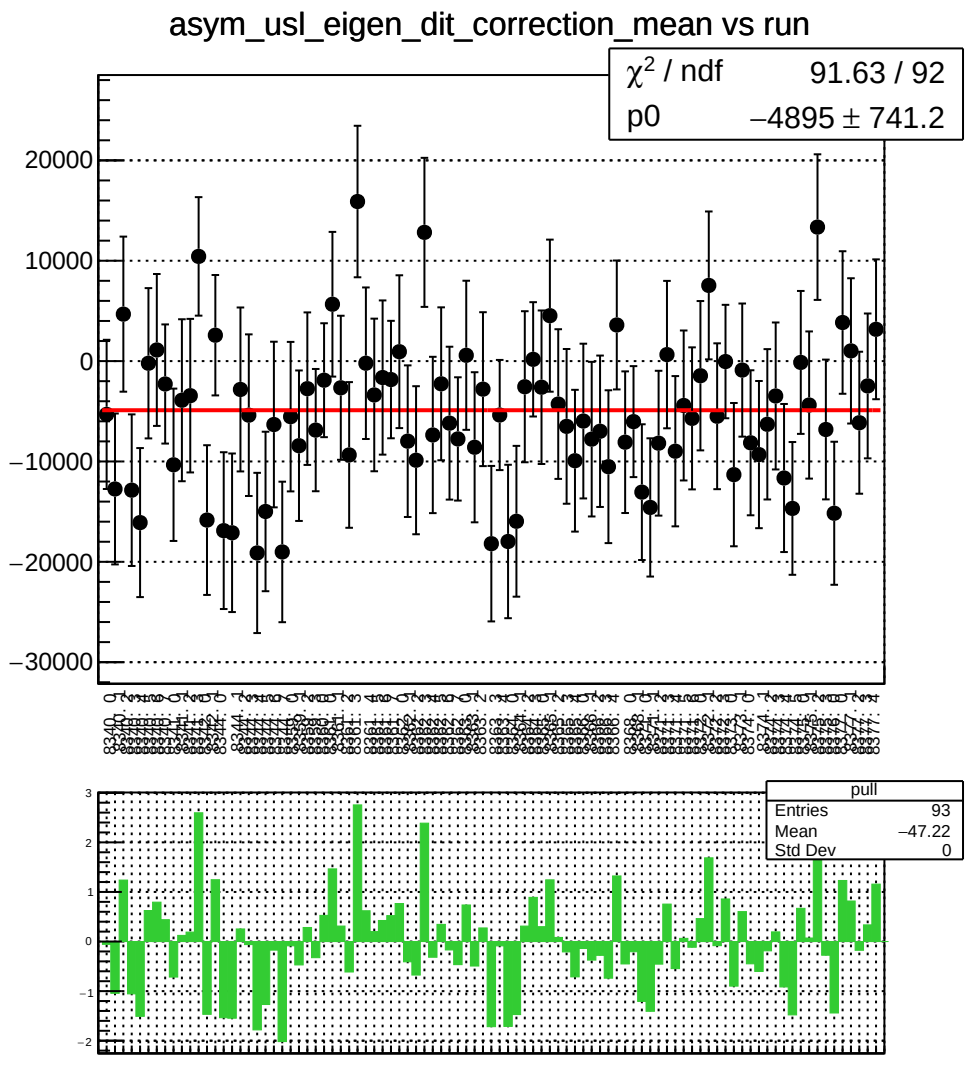

pull1D
Entries 93
Mean −0.02034
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

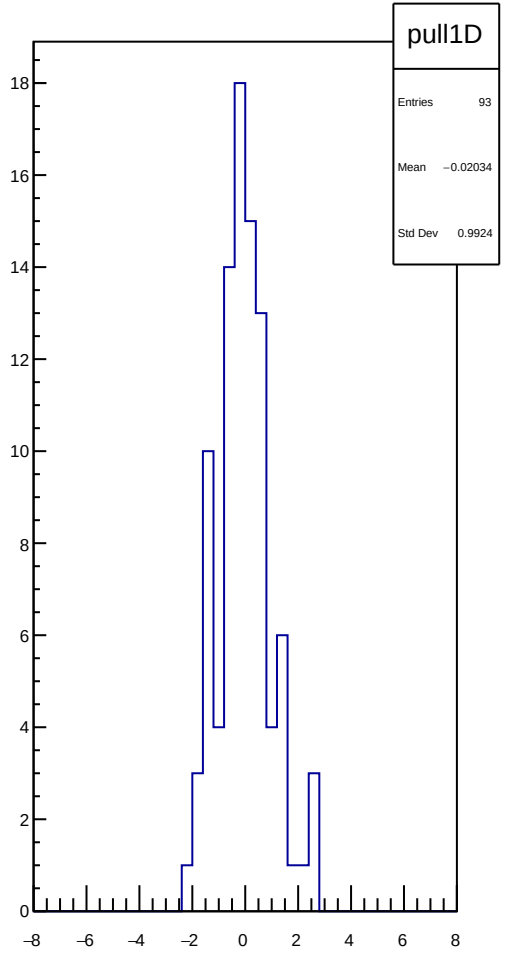

asym_usl_dit_correction_rms vs run
χ² / ndf 2254 / 92
p0 709.3 ± 0.5241
800
780
760
740
720
700
680
660
640

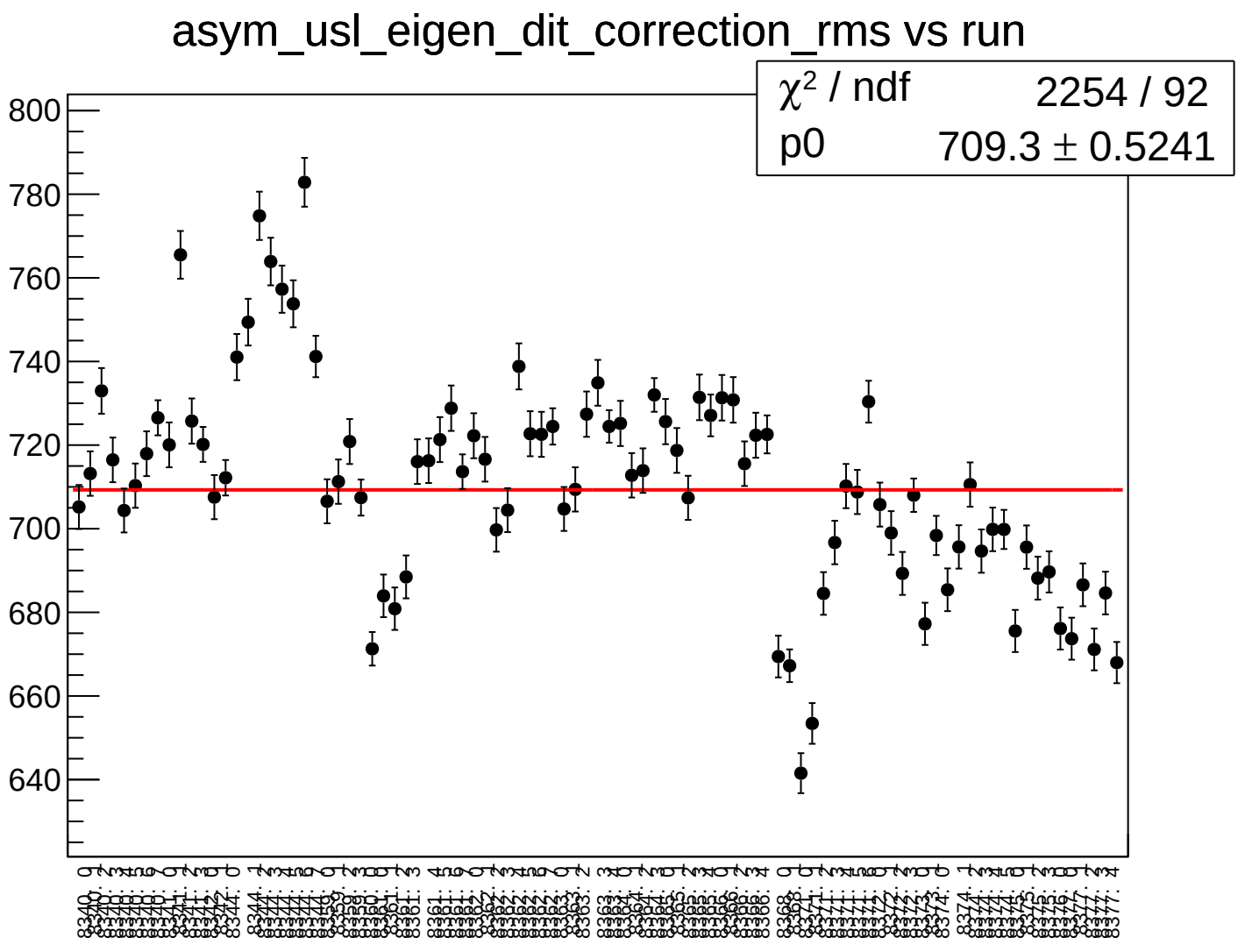

eigen_dit_asym_usl_mean vs run
χ² / ndf 96.77 / 92
p0 −2338 ± 1141
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −729.7
Std Dev 0
3
2
1
0
−1
−2
−3

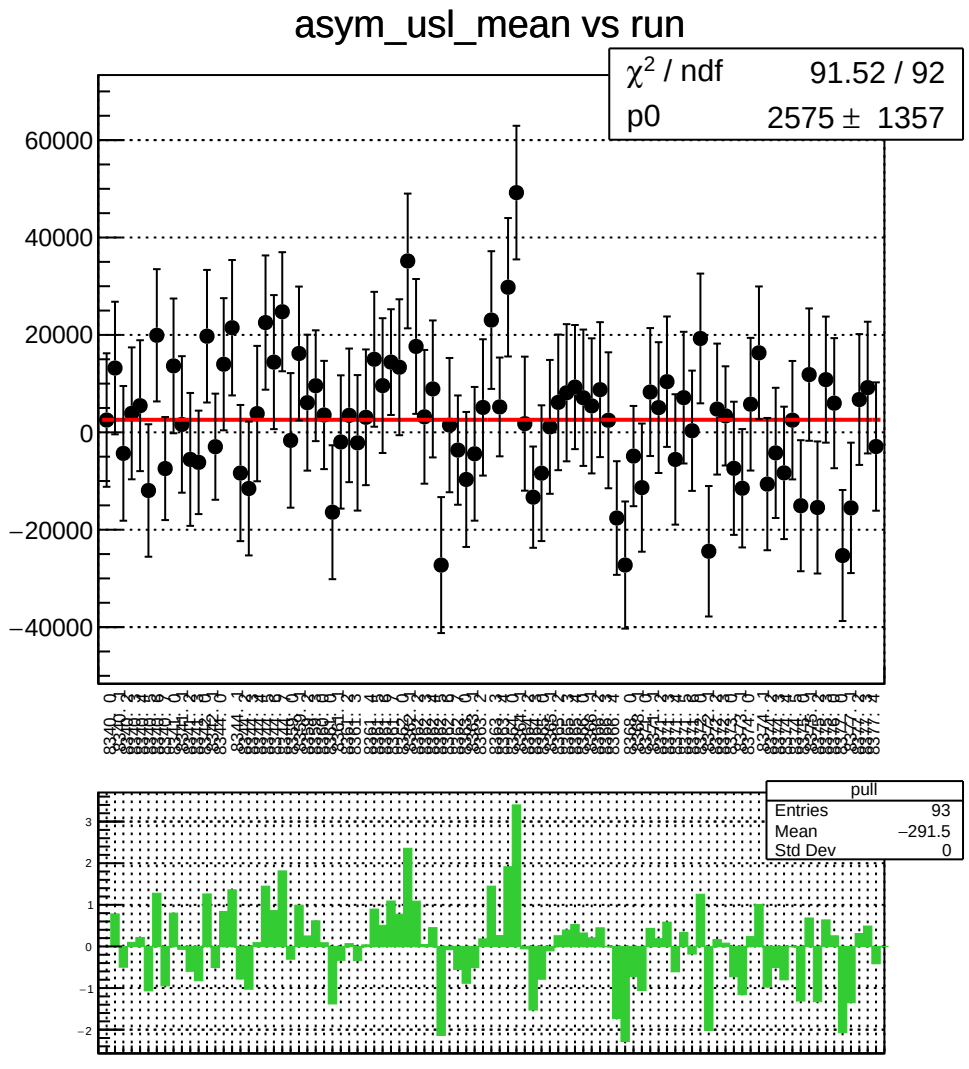

pull1D
Entries 93
Mean 0.006764
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

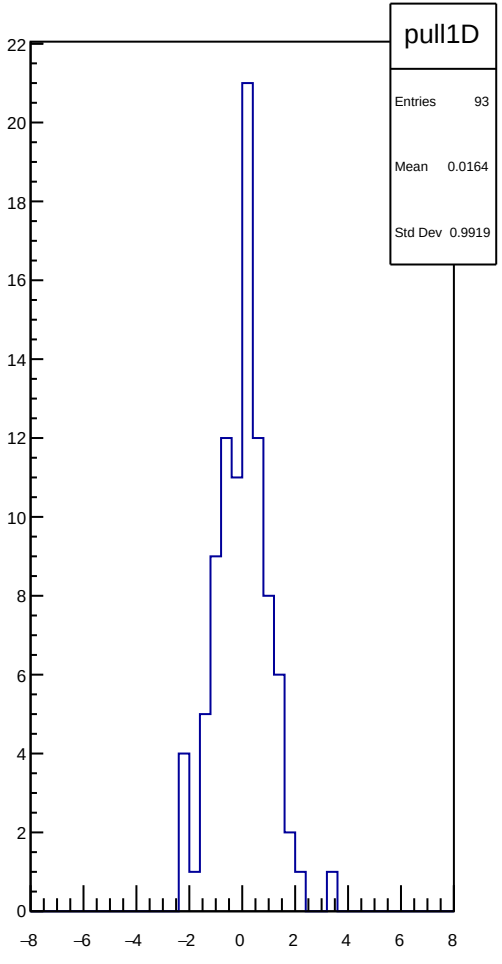

eigen_dit_asym_usl_rms vs run
χ² / ndf 667.6 / 92
p0 1092 ± 0.8068
1160
1140
1120
1100
1080
1060

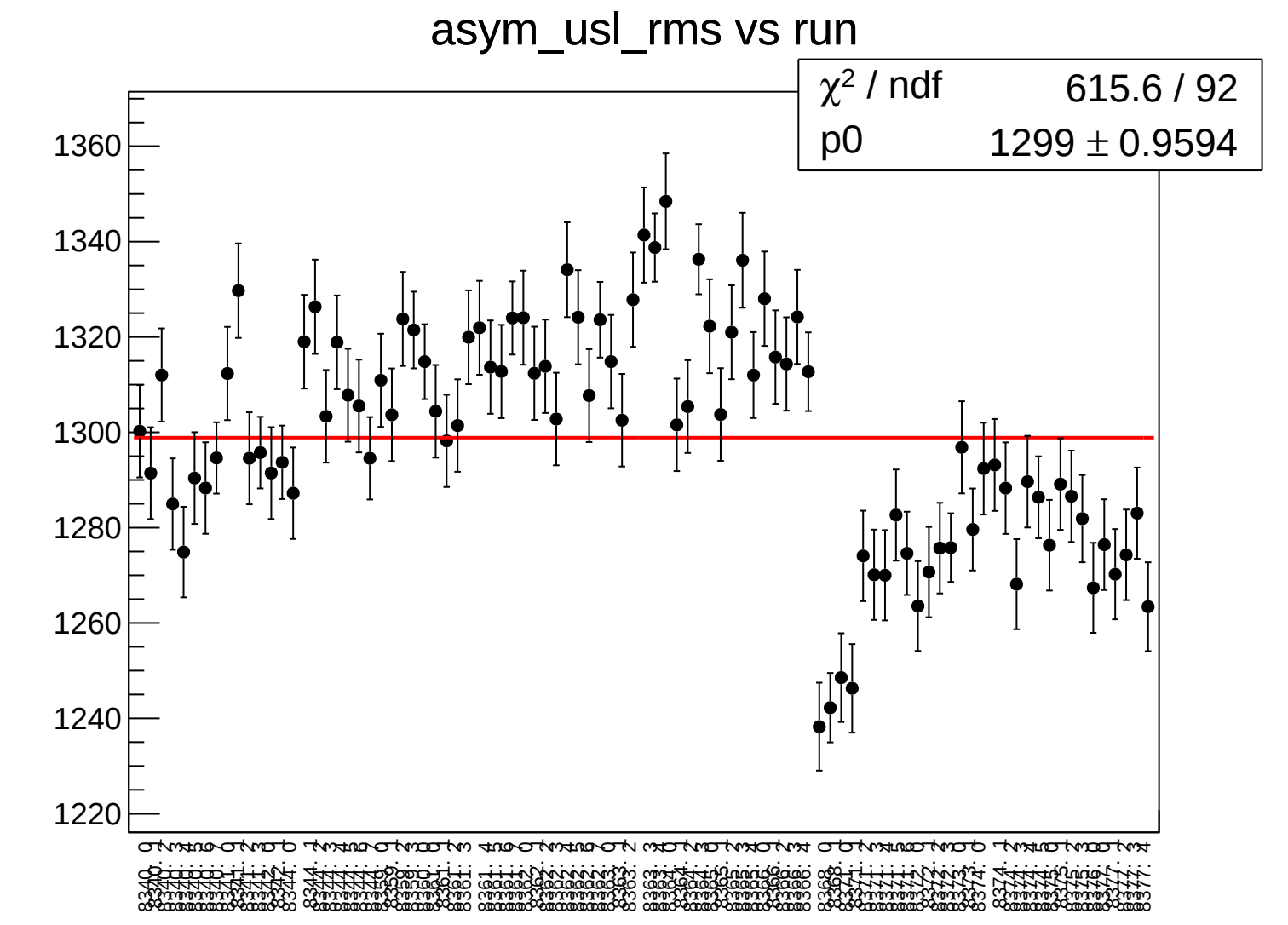

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 91.63 / 92
p0 −4895 ± 741.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −47.22
Std Dev 0
3
2
1
0
−1
−2

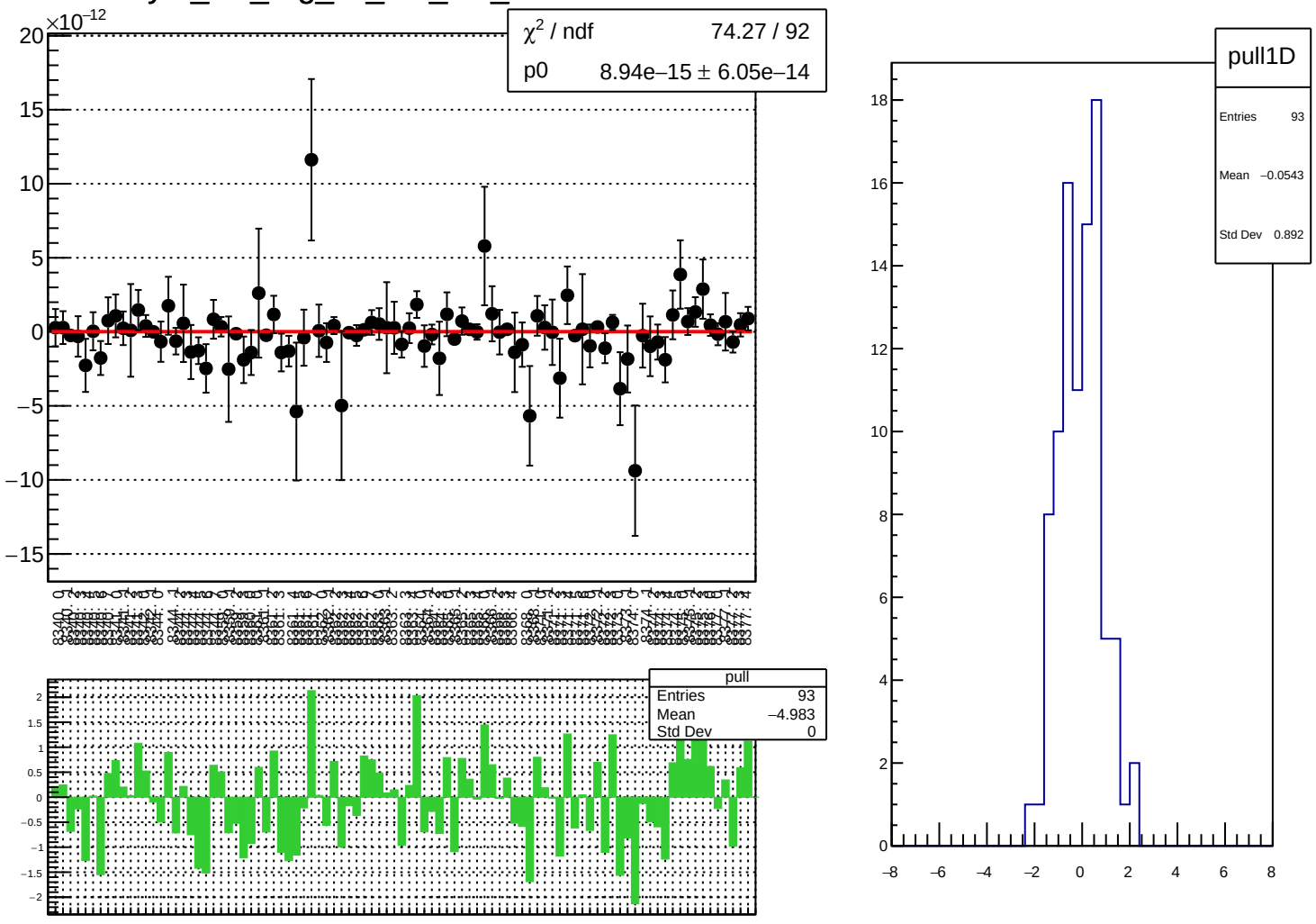

pull1D
Entries 93
Mean −0.02034
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

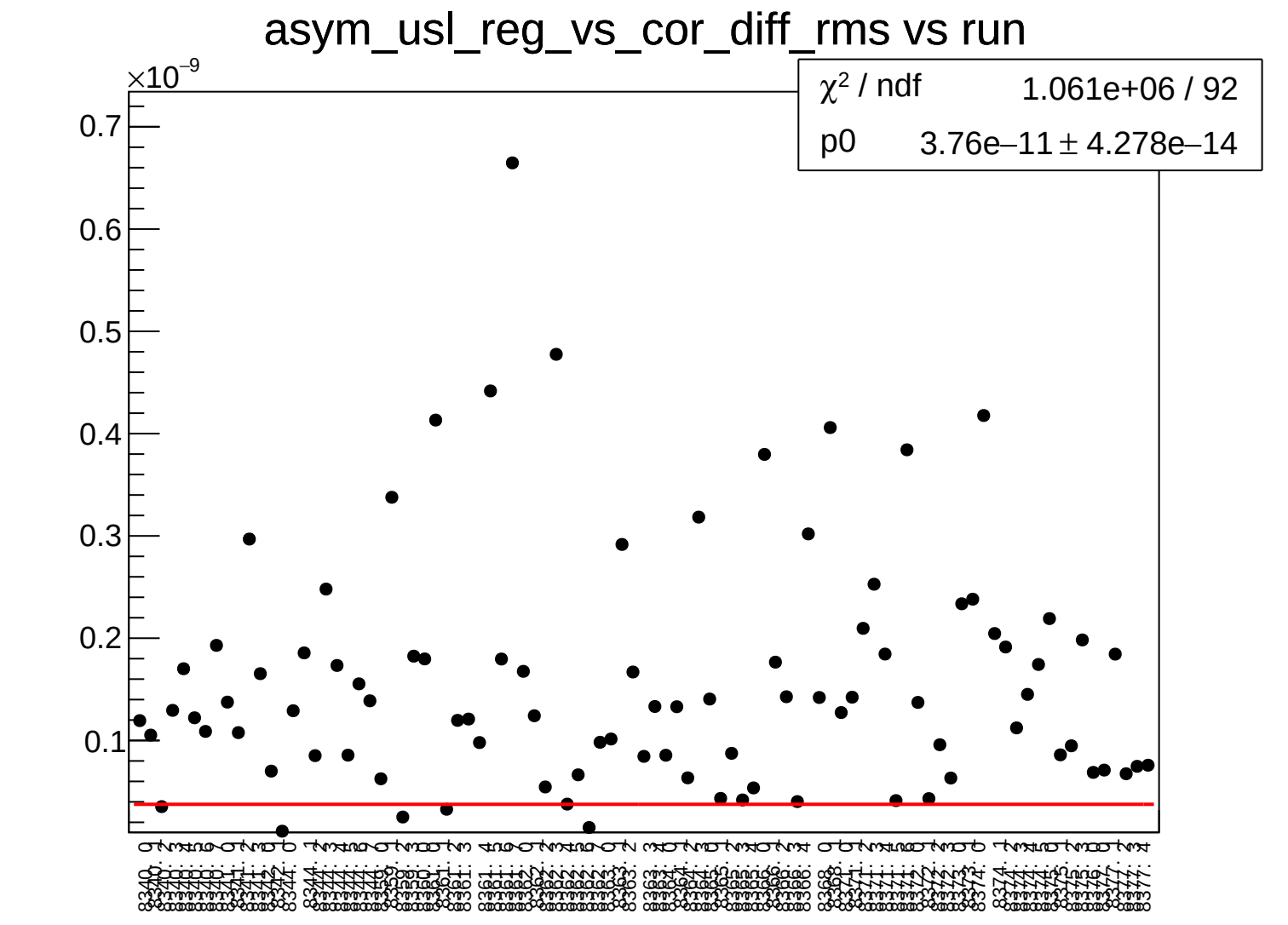

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 2254 / 92
p0 709.3 ± 0.5241
800
780
760
740
720
700
680
660
640

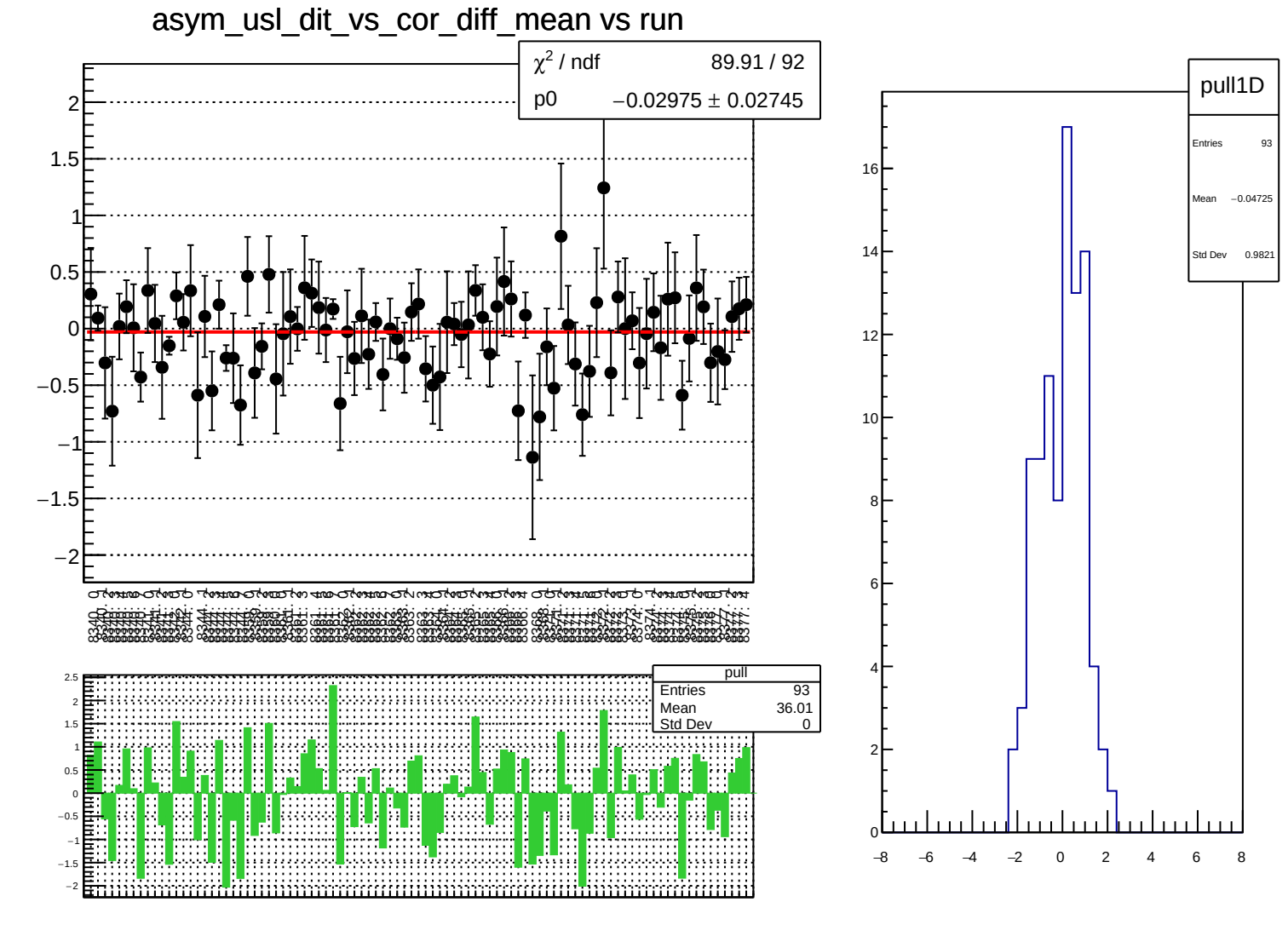

asym_usl_mean vs run
χ^2 / ndf 91.52 / 92
p0 2575 ± 1357
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −291.5
Std Dev 0
3
2
1
0
−1
−2

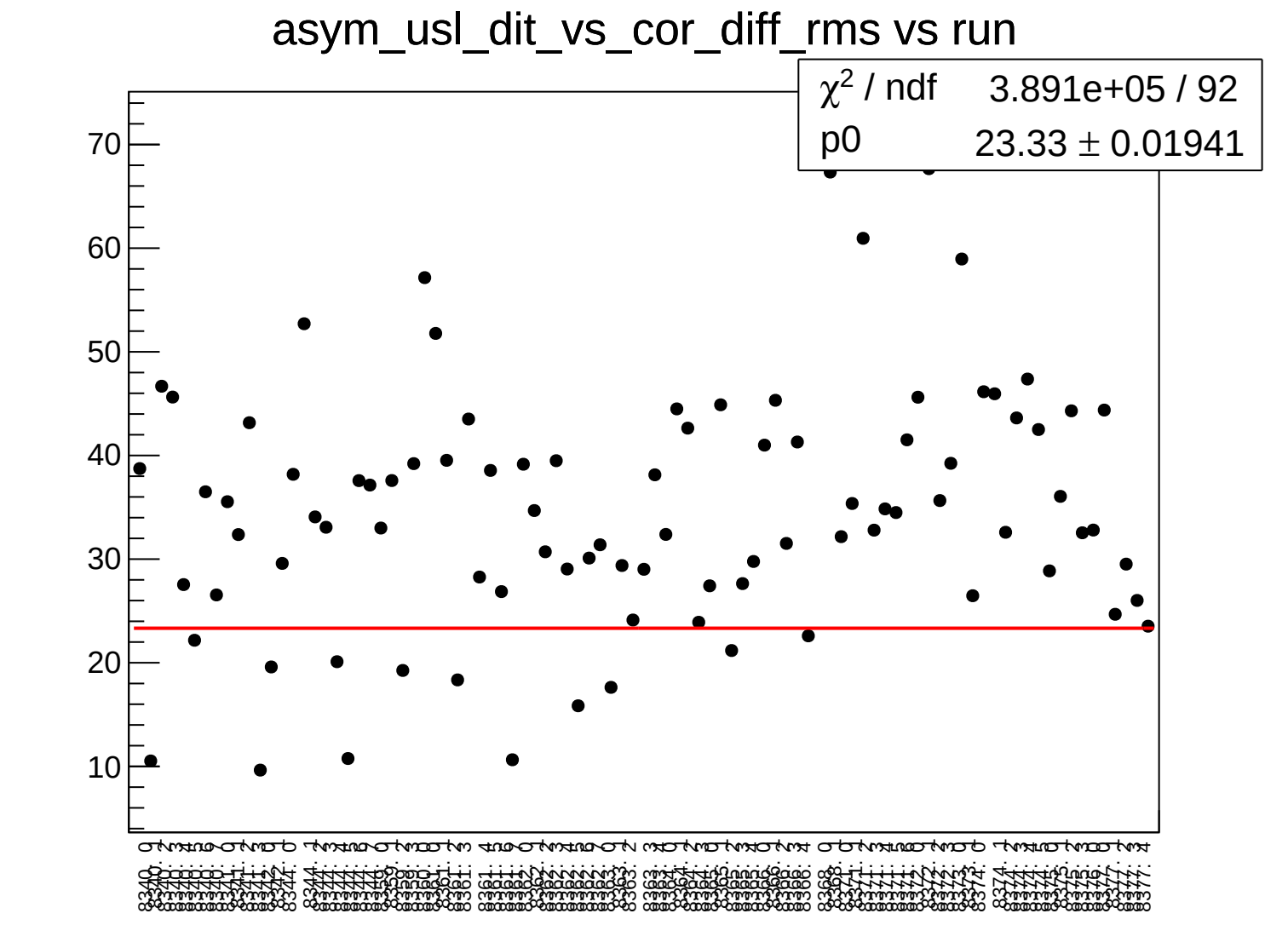

pull1D
Entries 93
Mean 0.0164
Std Dev 0.9919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

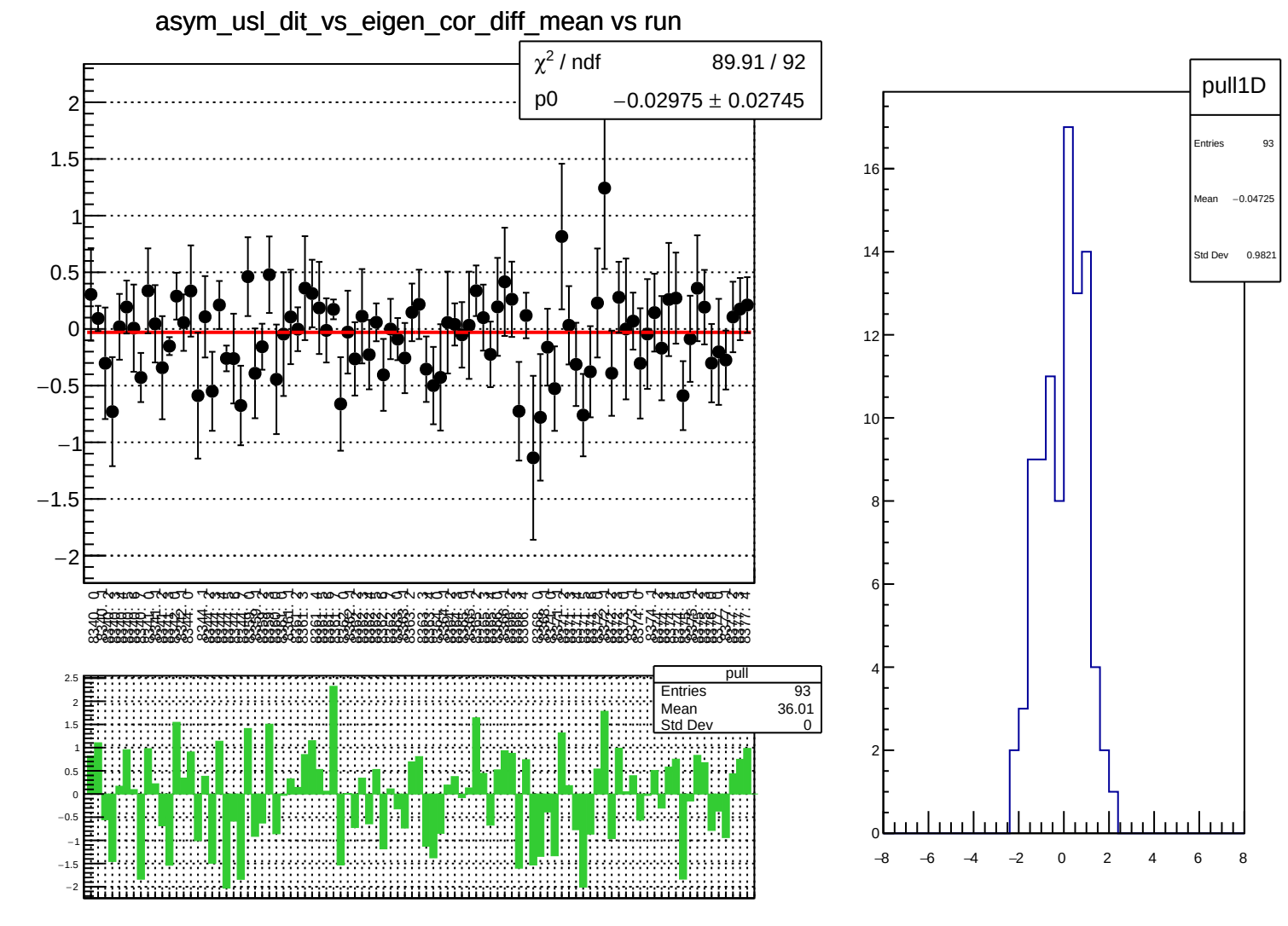

asym_usl_rms vs run
χ² / ndf 615.6 / 92
p0 1299 ± 0.9594
1360
1340
1320
1300
1280
1260
1240
1220

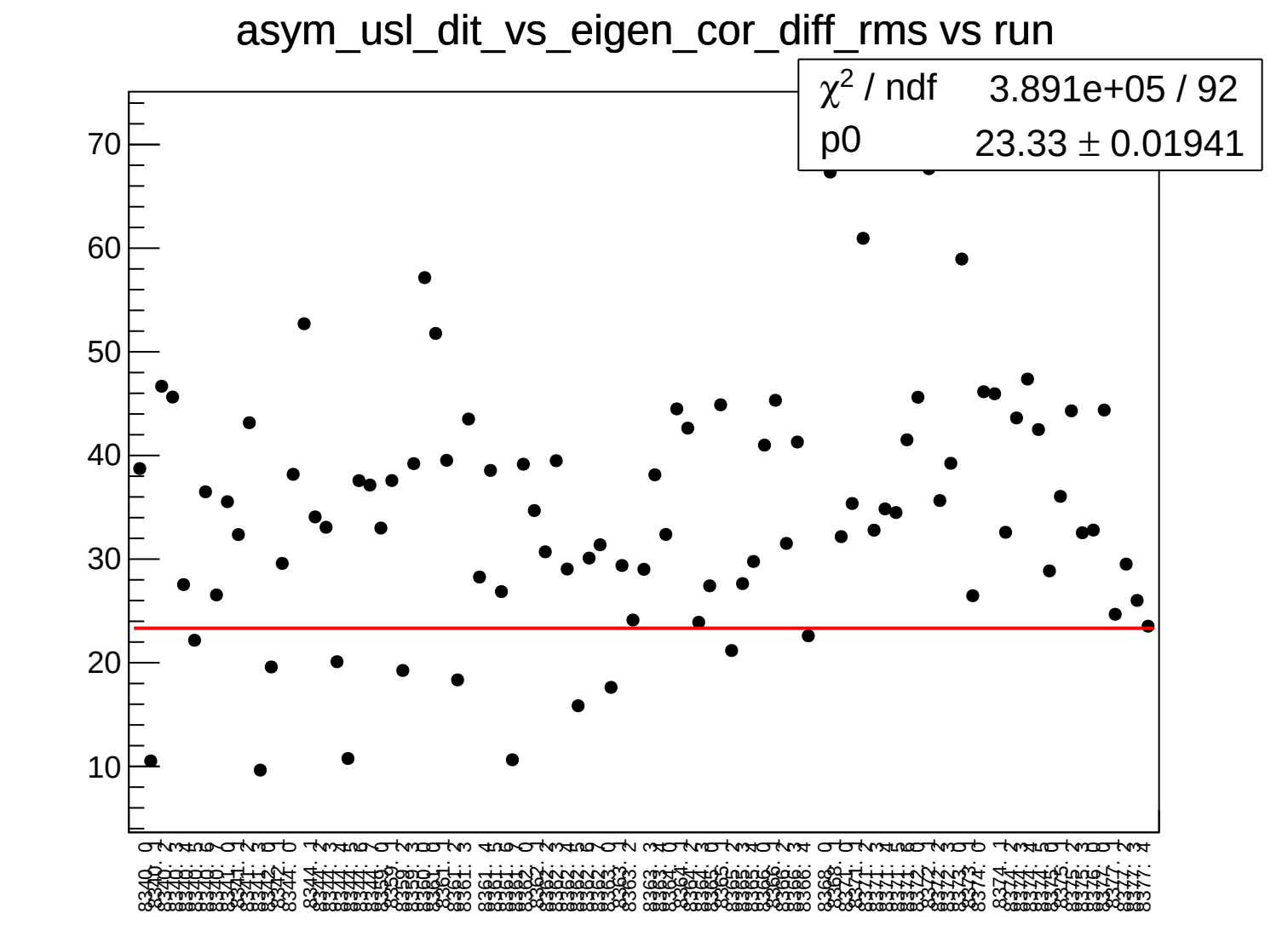

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.27 / 92
p0 8.94e−15 ± 6.05e−14
pull
Entries 93
Mean −4.983
Std Dev 0
pull1D
Entries 93
Mean −0.0543
Std Dev 0.892

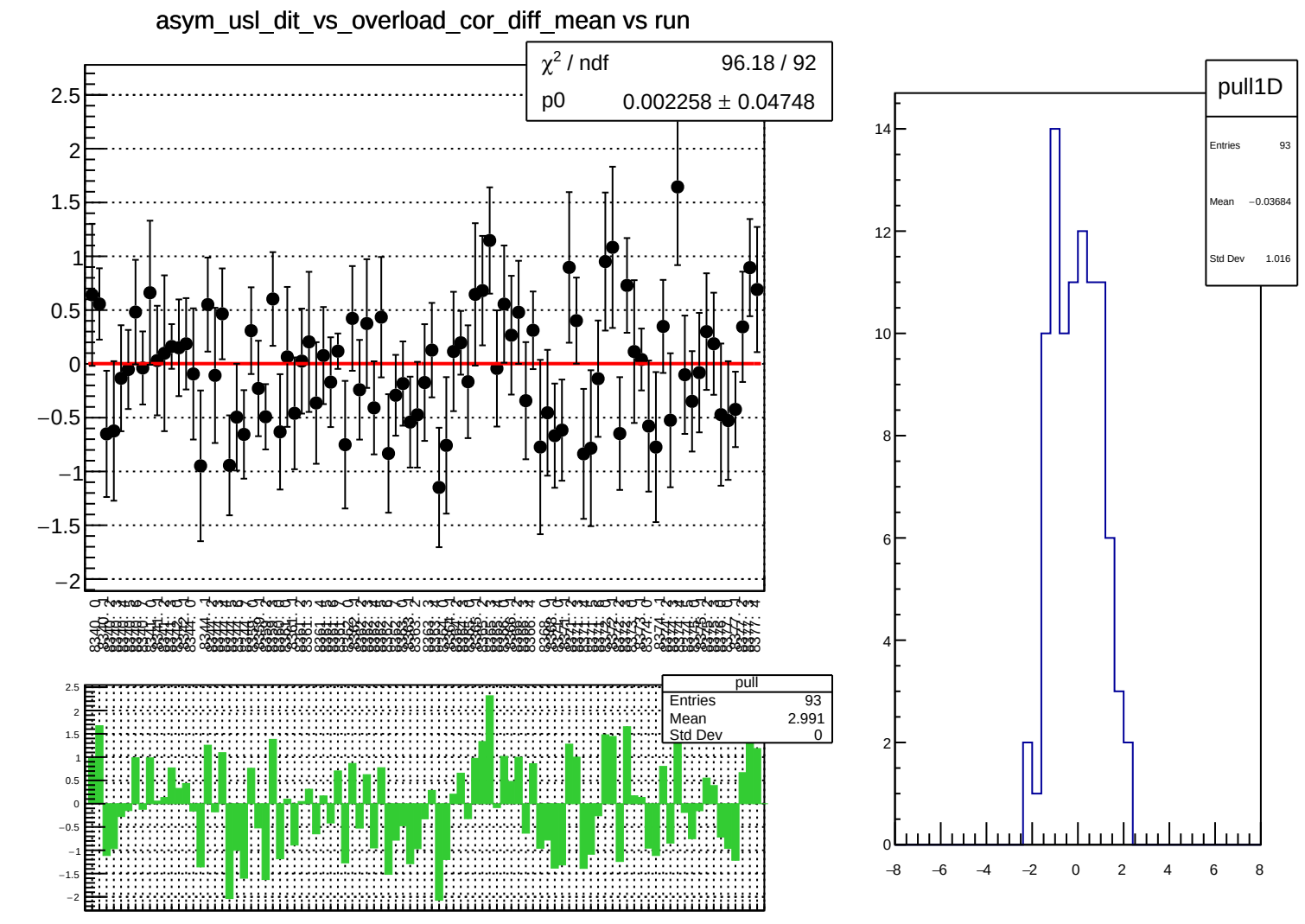

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.061e+06 / 92
p0 3.76e−11 ± 4.278e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

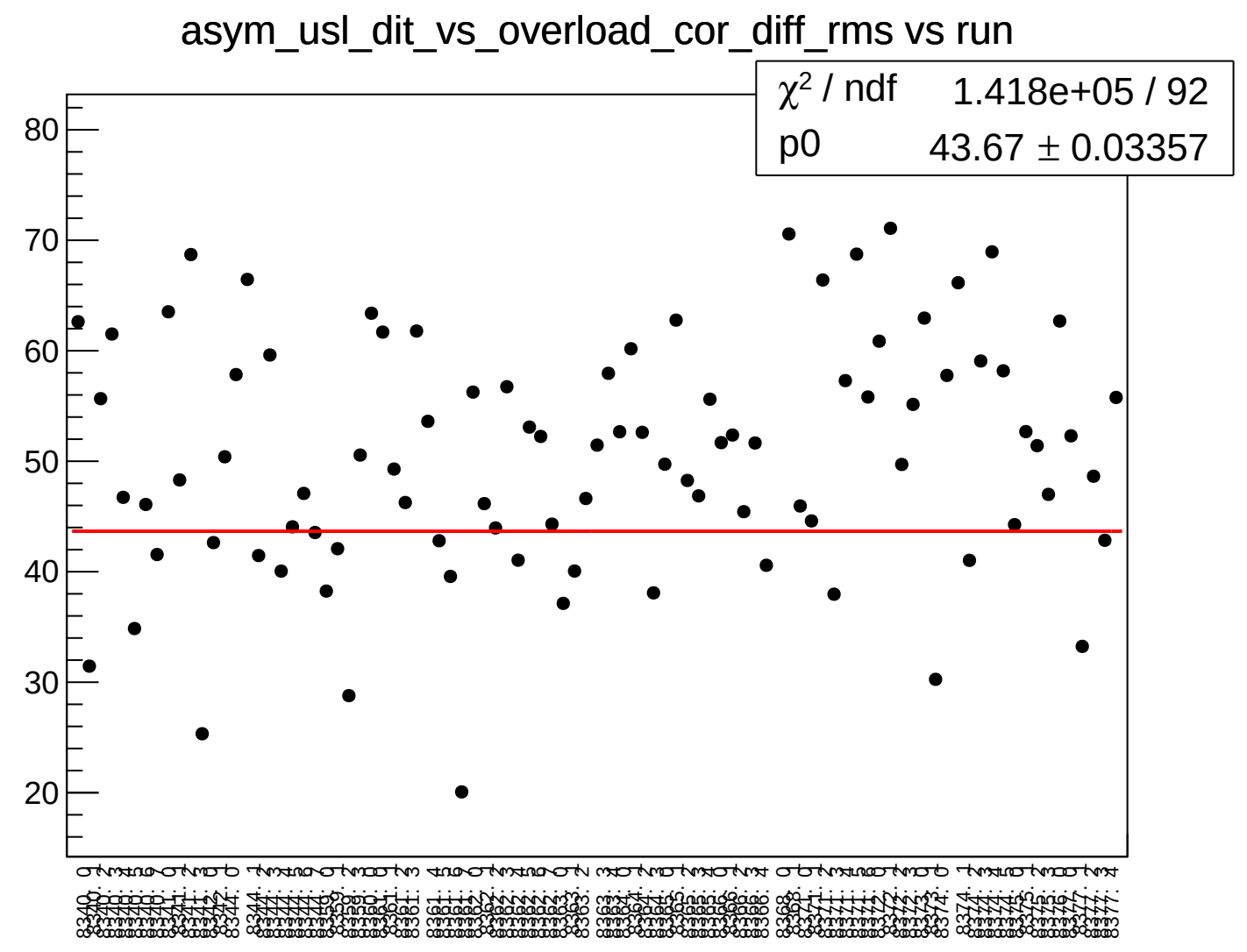

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 89.91 / 92
p0 −0.02975 ± 0.02745
pull
Entries 93
Mean 36.01
Std Dev 0
pull1D
Entries 93
Mean −0.04725
Std Dev 0.9821

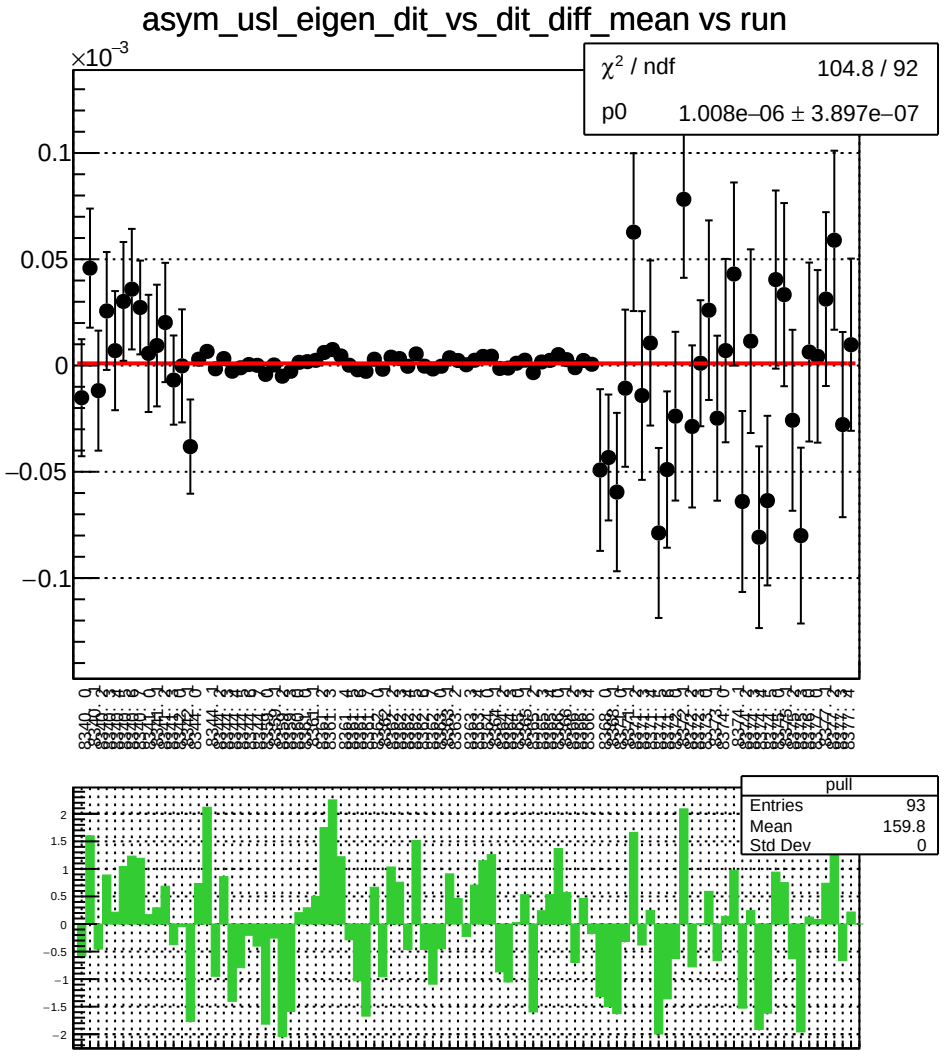

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.891e+05 / 92
p0 23.33 ± 0.01941
70
60
50
40
30
20
10

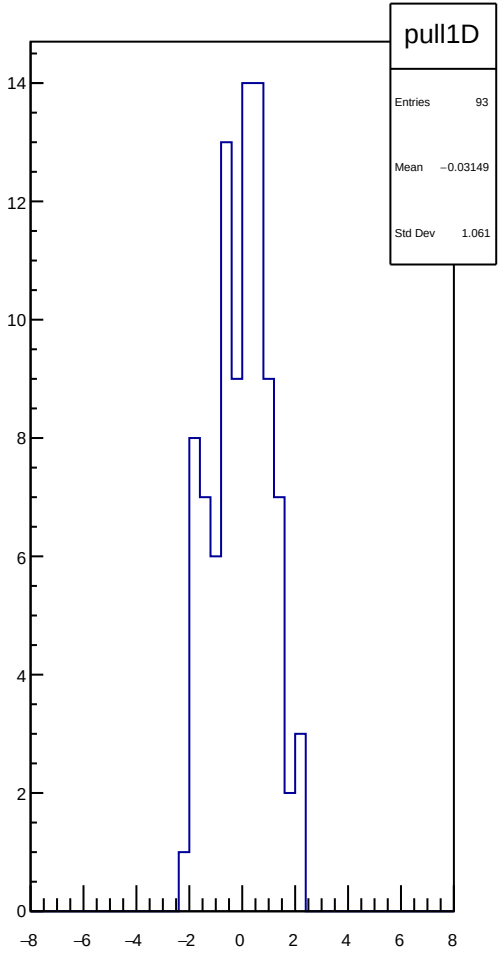

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.91 / 92
p0 −0.02975 ± 0.02745
pull
Entries 93
Mean 36.01
Std Dev 0
pull1D
Entries 93
Mean −0.04725
Std Dev 0.9821

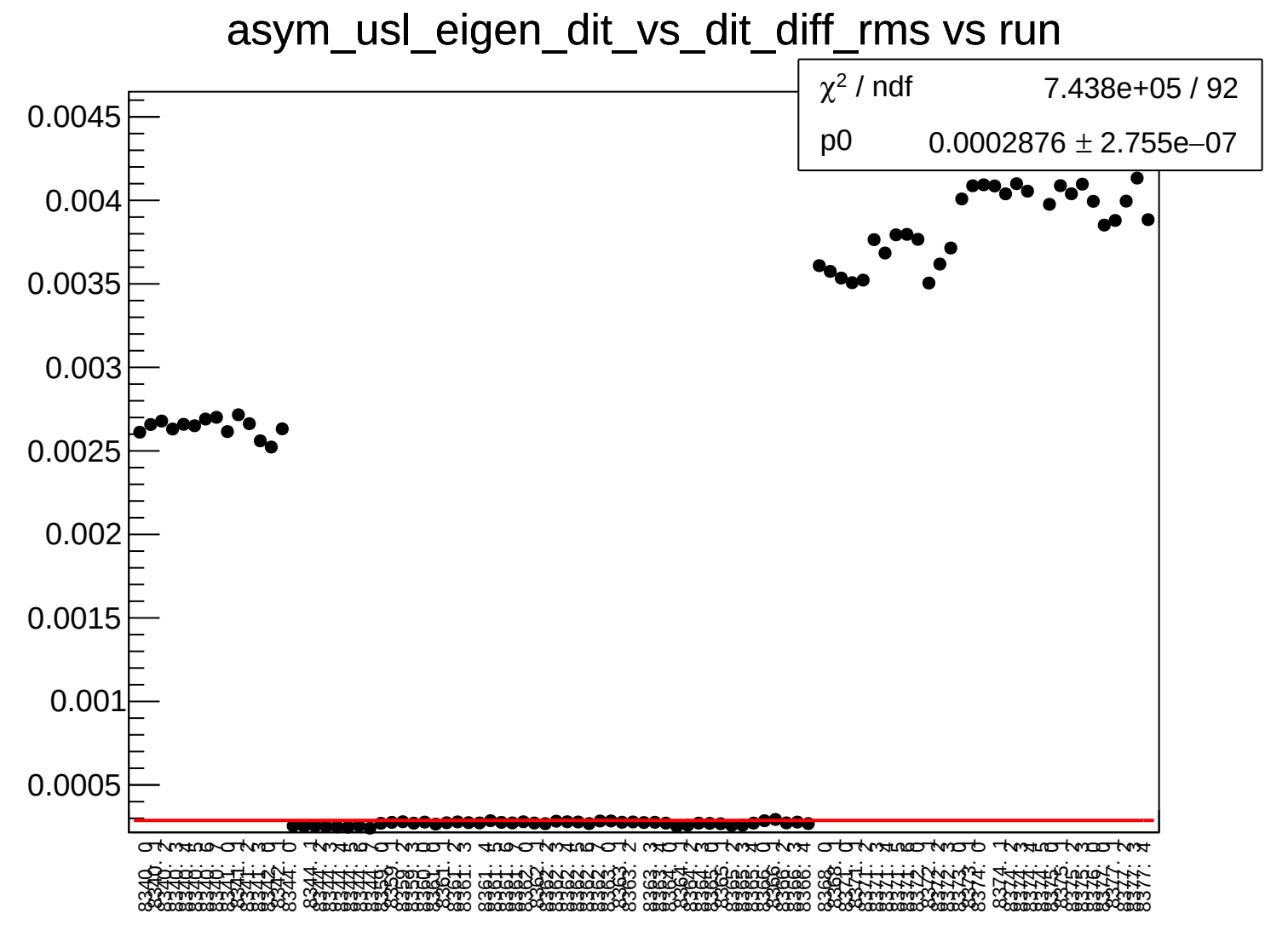

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.891e+05 / 92
p0 23.33 ± 0.01941
70
60
50
40
30
20
10

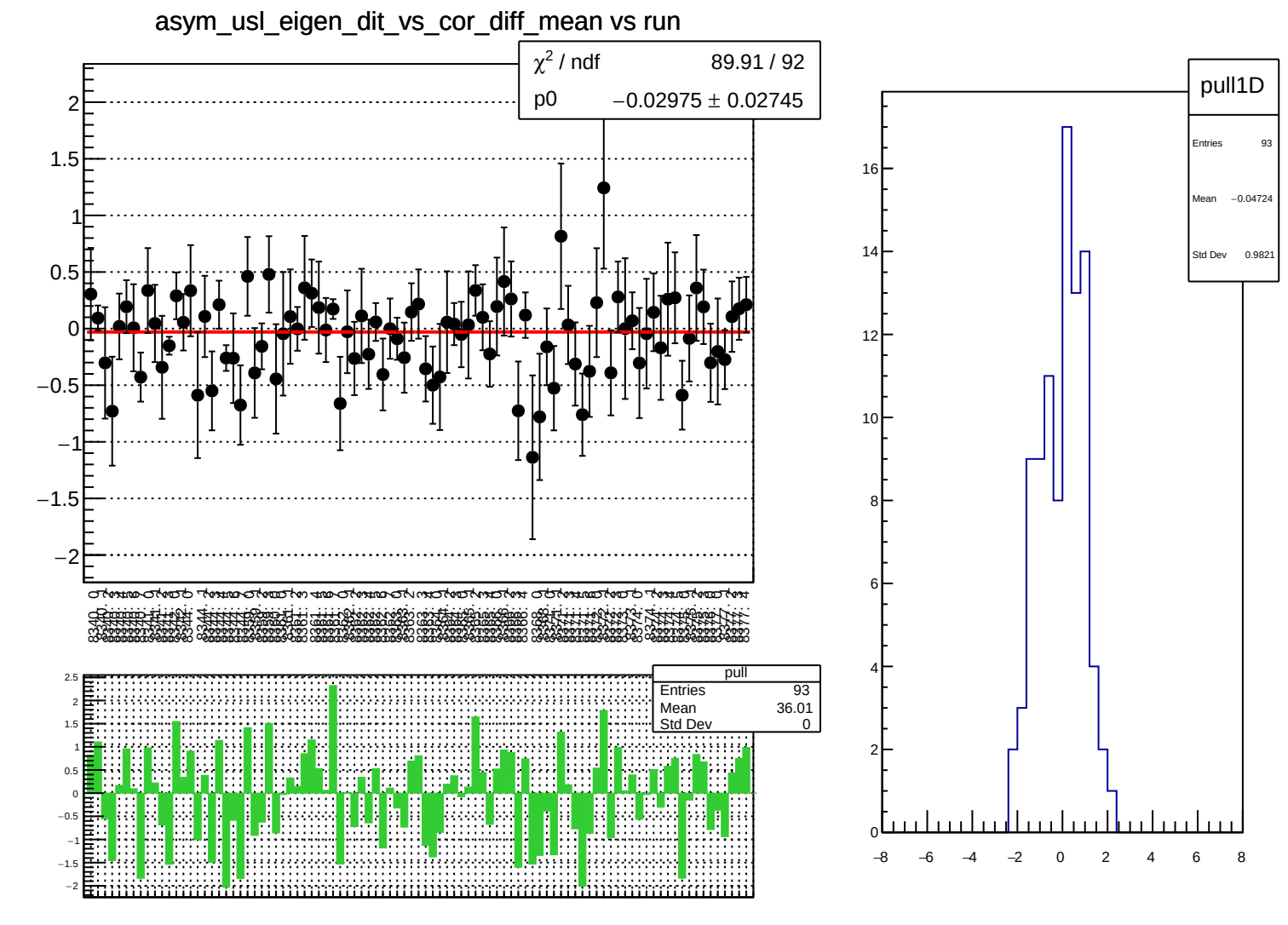

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 96.18 / 92
p0 0.002258 ± 0.04748
pull
Entries 93
Mean 2.991
Std Dev 0
pull1D
Entries 93
Mean −0.03684
Std Dev 1.016

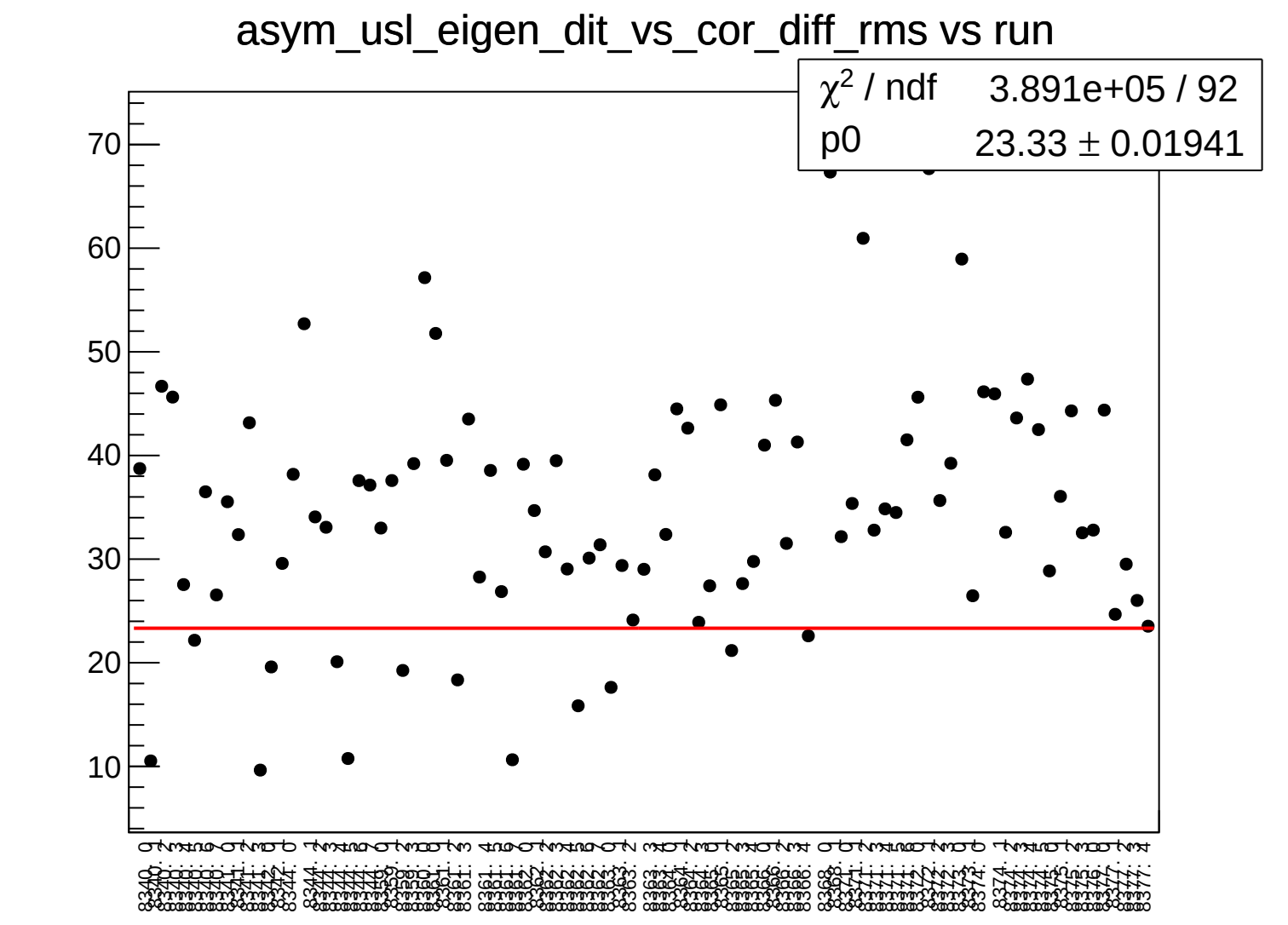

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 92
p0 43.67 ± 0.03357
80
70
60
50
40
30
20

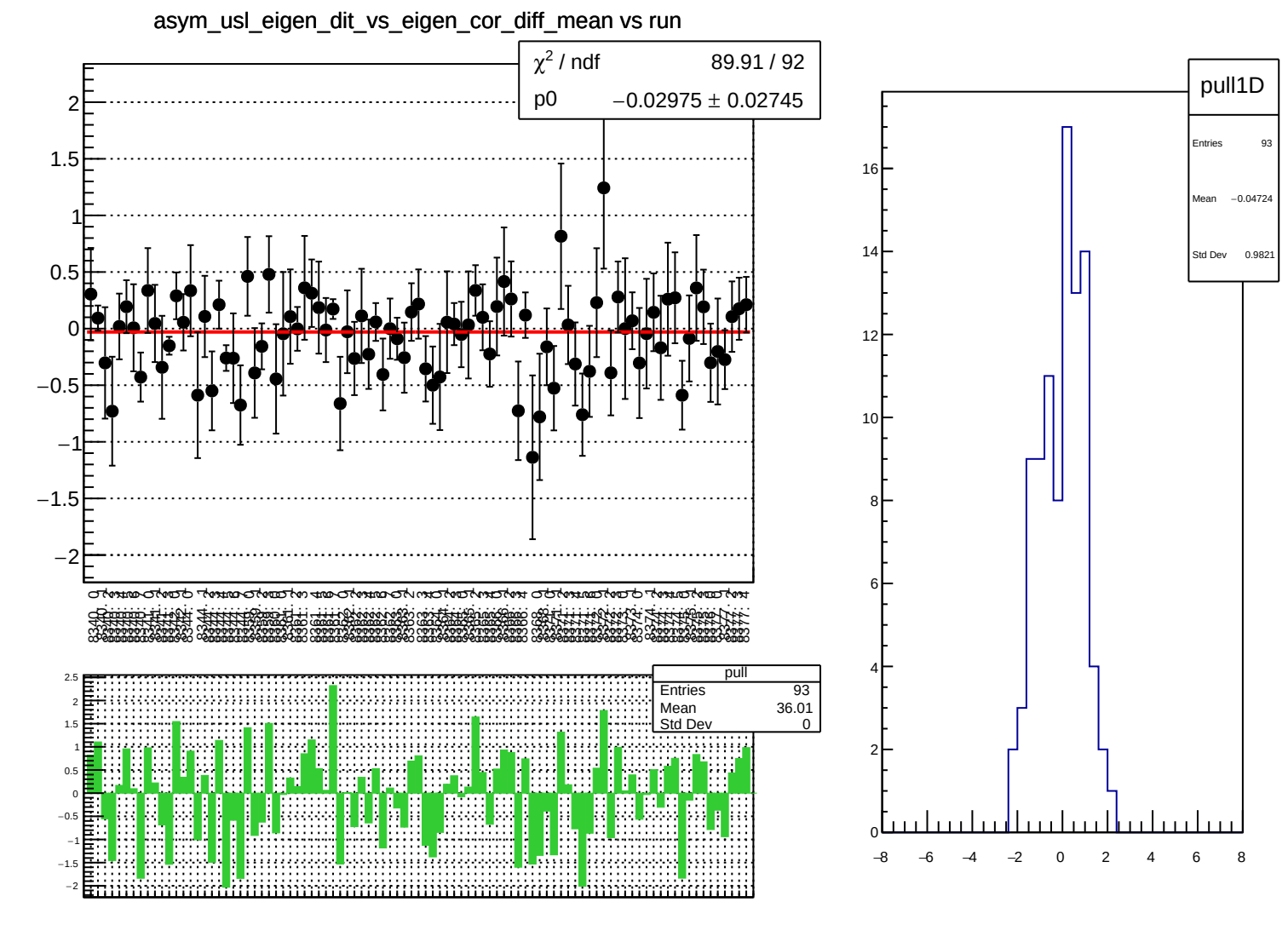

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.8 / 92
p0 1.008e−06 ± 3.897e−07
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 159.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

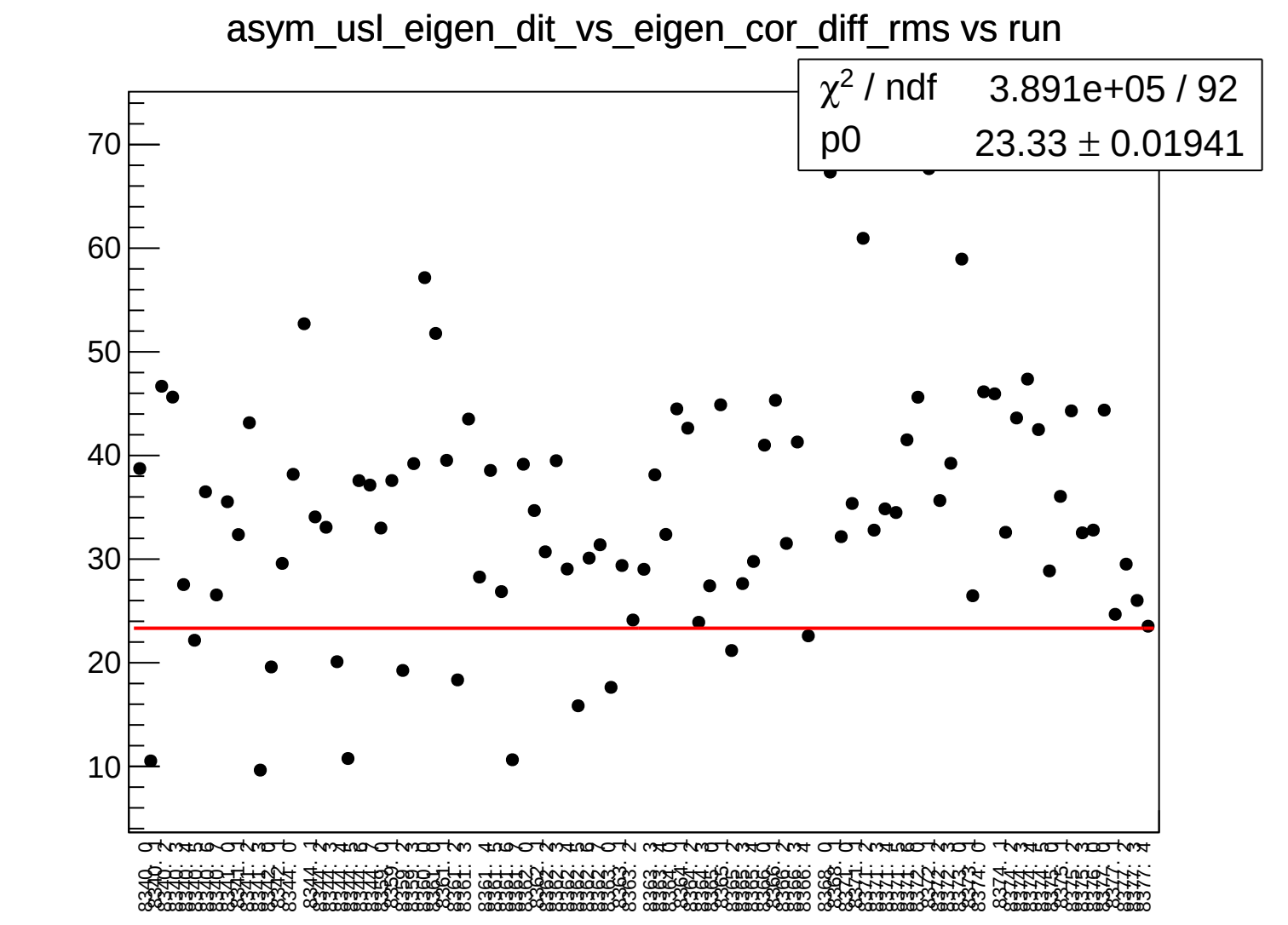

pull1D
Entries 93
Mean −0.03149
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

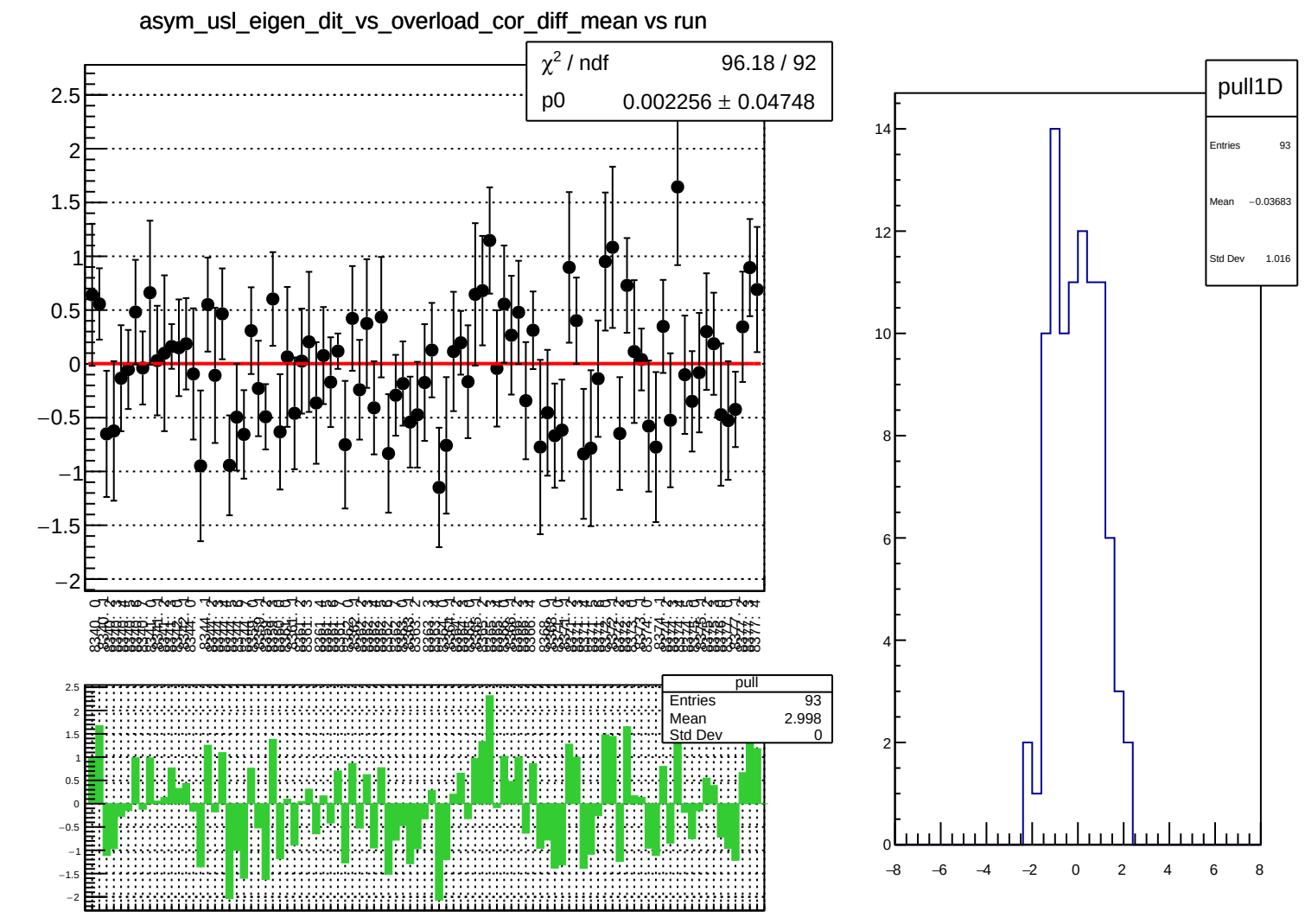

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.438e+05 / 92
p0 0.0002876 ± 2.755e−07
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

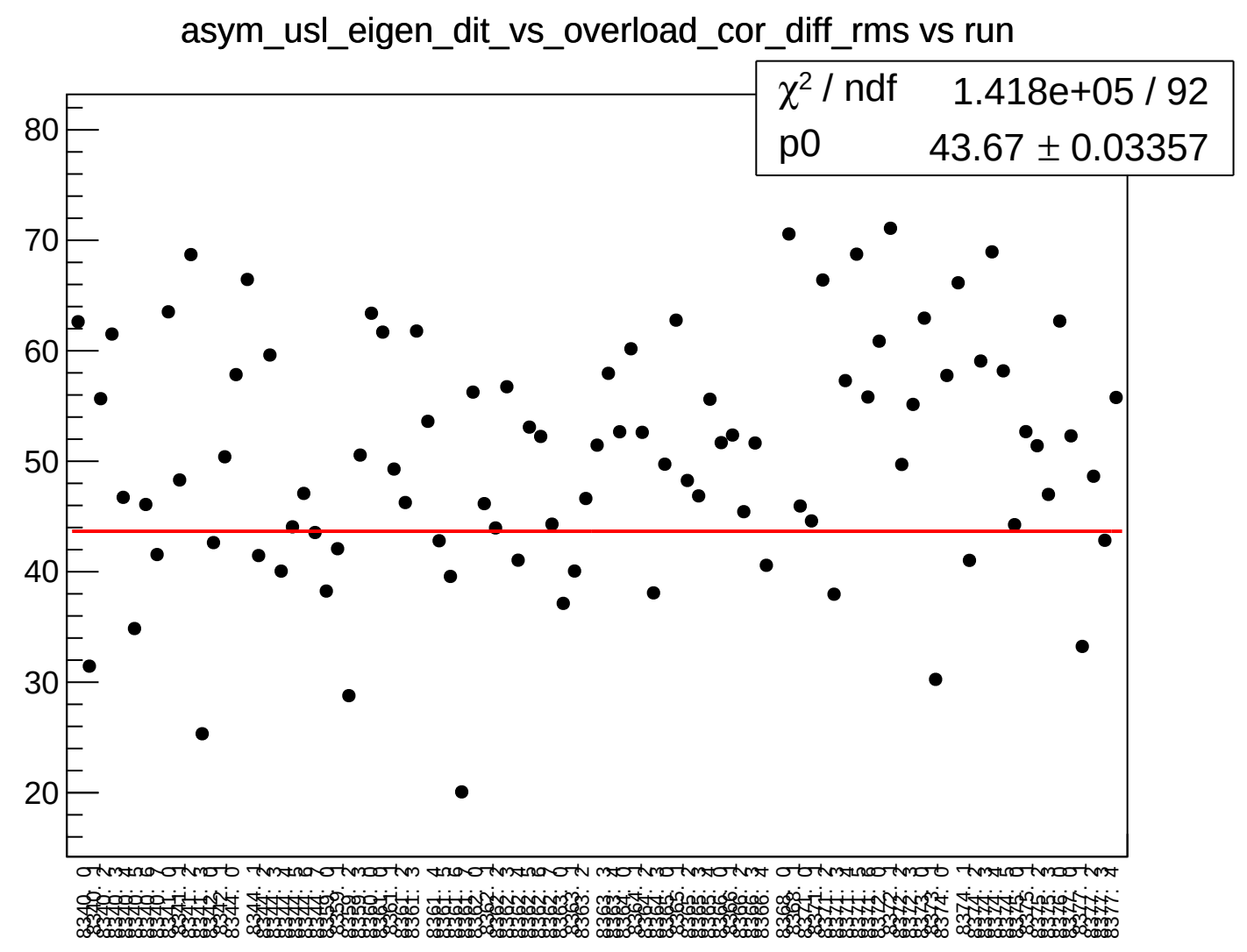

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.91 / 92
p0 −0.02975 ± 0.02745
pull
Entries 93
Mean 36.01
Std Dev 0
pull1D
Entries 93
Mean −0.04724
Std Dev 0.9821

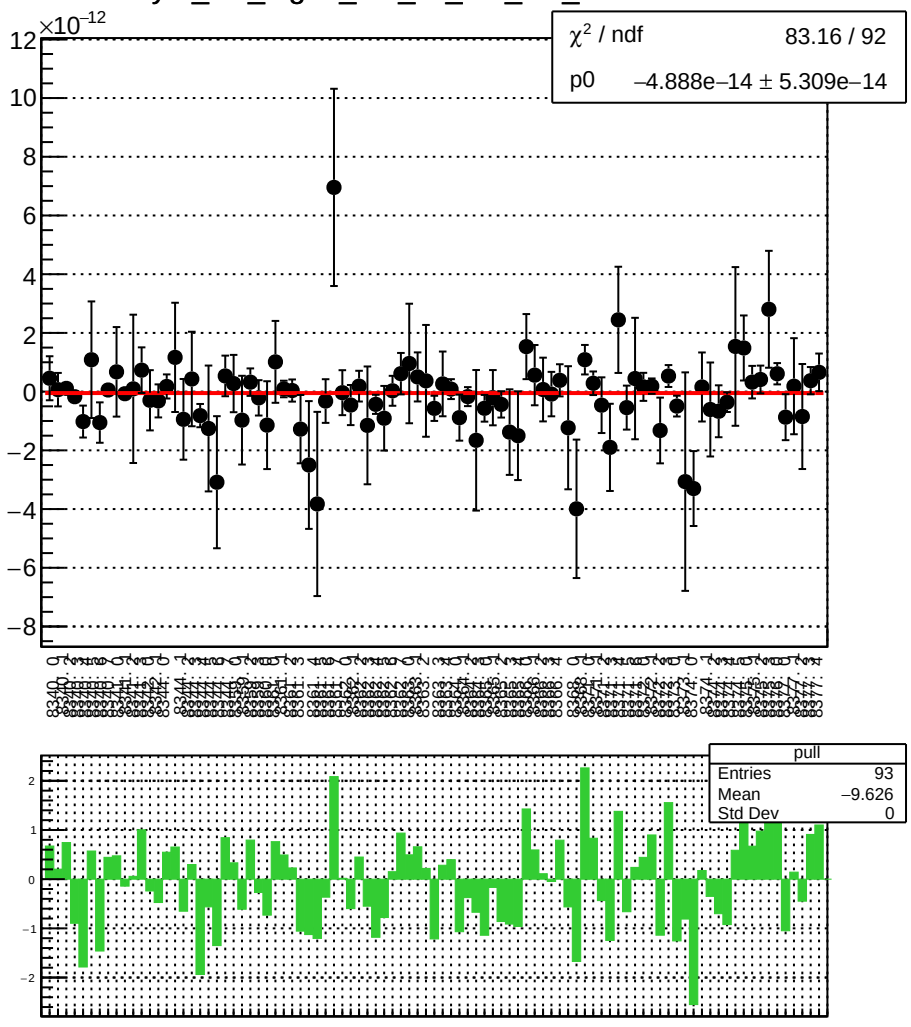

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.891e+05 / 92
p0 23.33 ± 0.01941
70
60
50
40
30
20
10

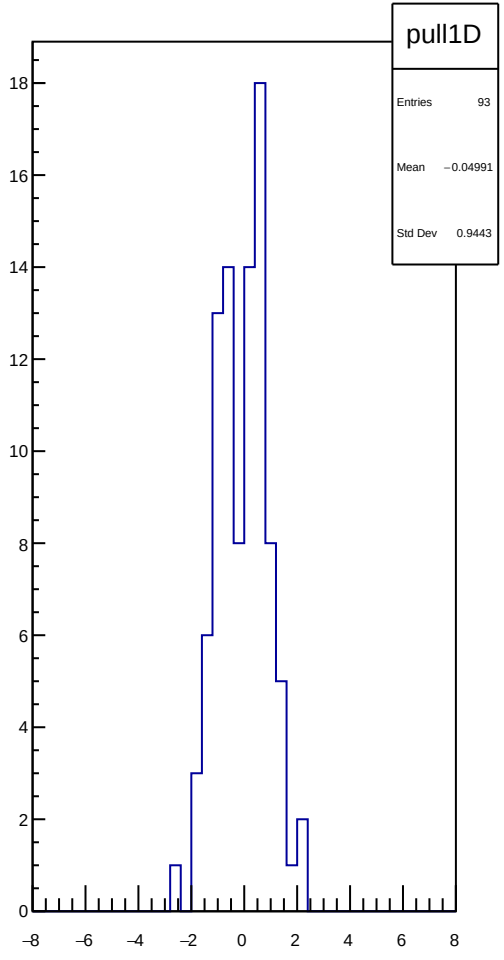

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.91 / 92
p0 −0.02975 ± 0.02745
pull
Entries 93
Mean 36.01
Std Dev 0
pull1D
Entries 93
Mean −0.04724
Std Dev 0.9821

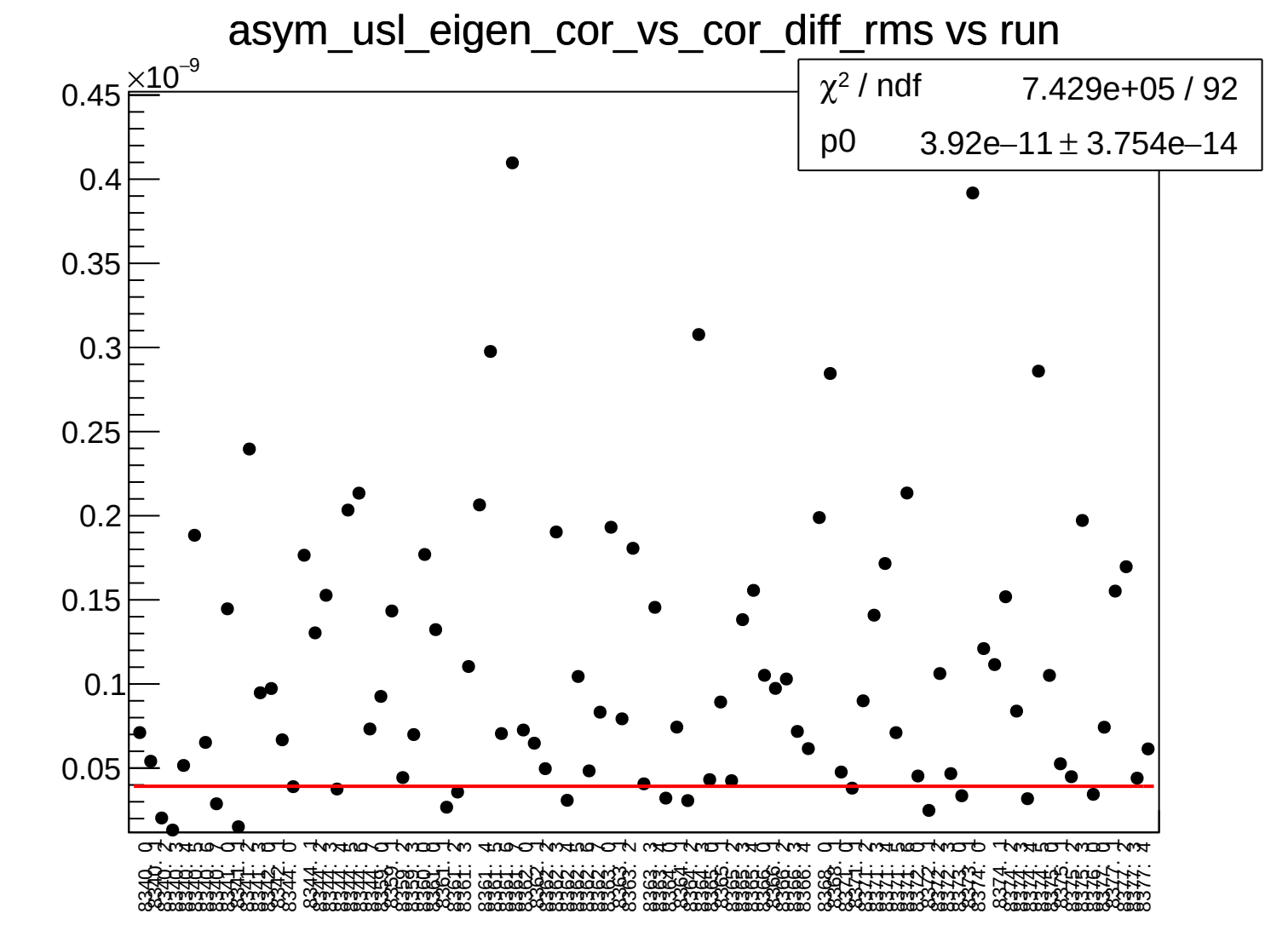

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.891e+05 / 92
p0 23.33 ± 0.01941
70
60
50
40
30
20
10

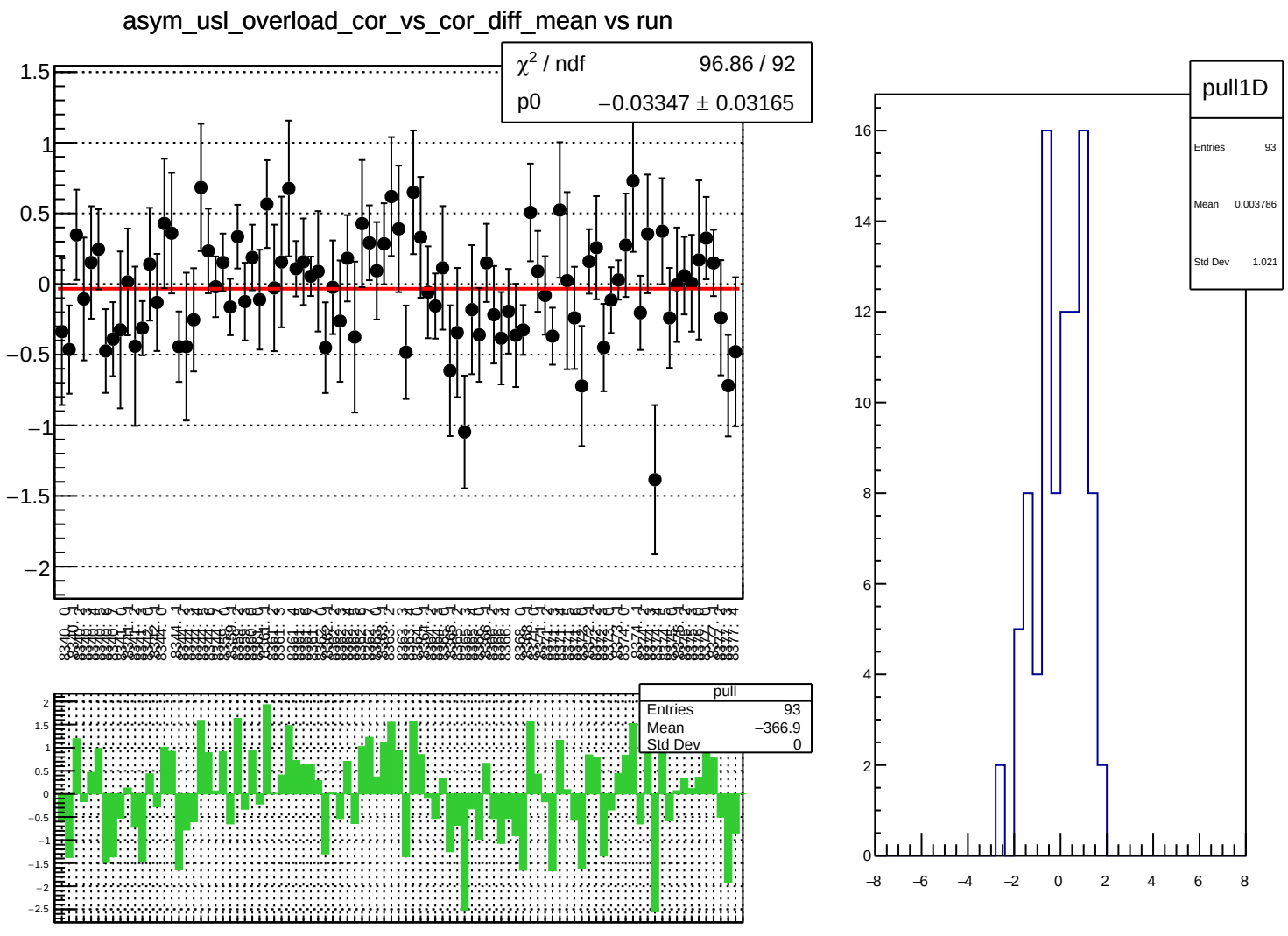

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 96.18 / 92
p0 0.002256 ± 0.04748
pull
Entries 93
Mean 2.998
Std Dev 0
pull1D
Entries 93
Mean −0.03683
Std Dev 1.016

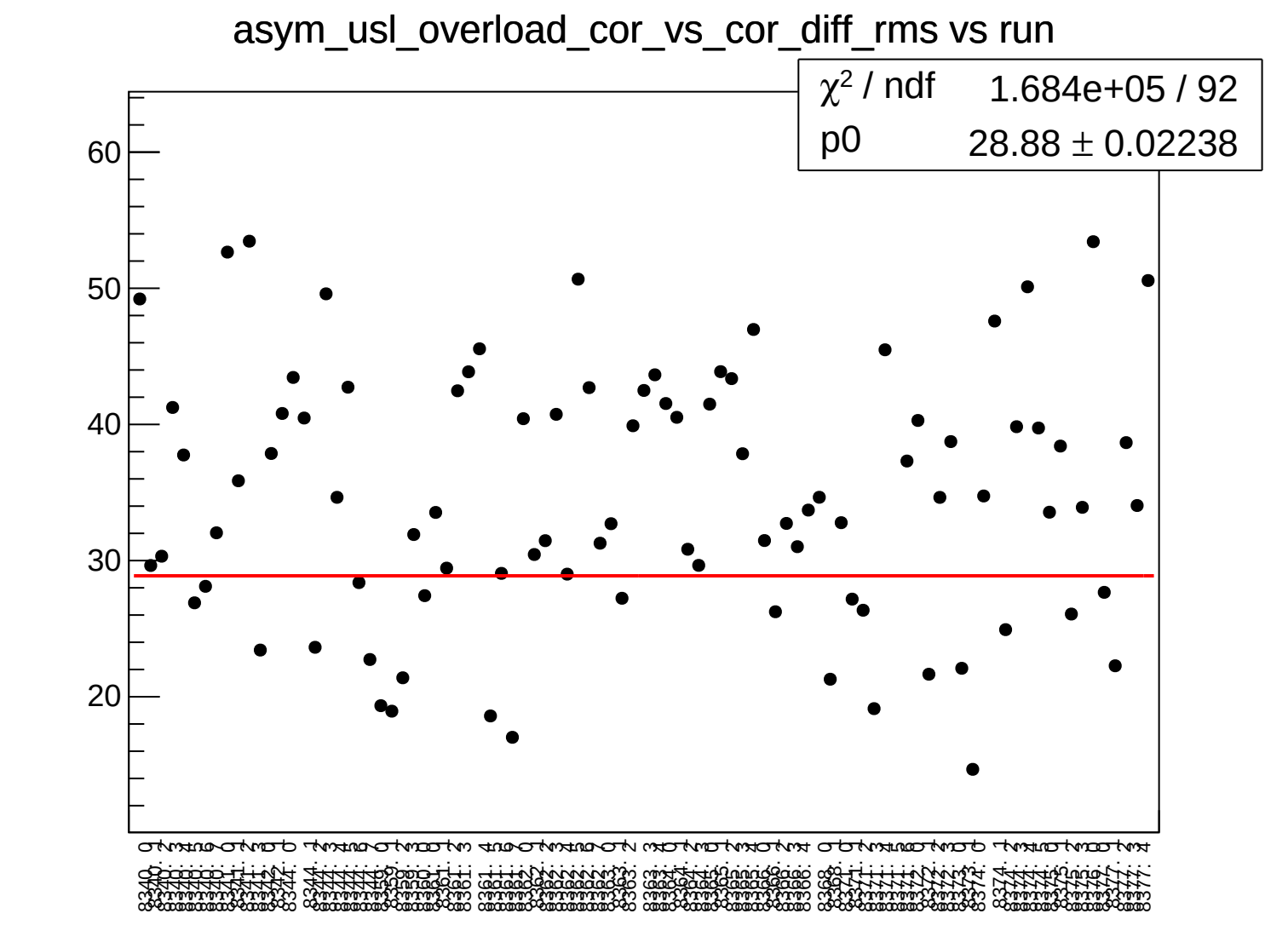

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.418e+05 / 92
p0 43.67 ± 0.03357
80
70
60
50
40
30
20

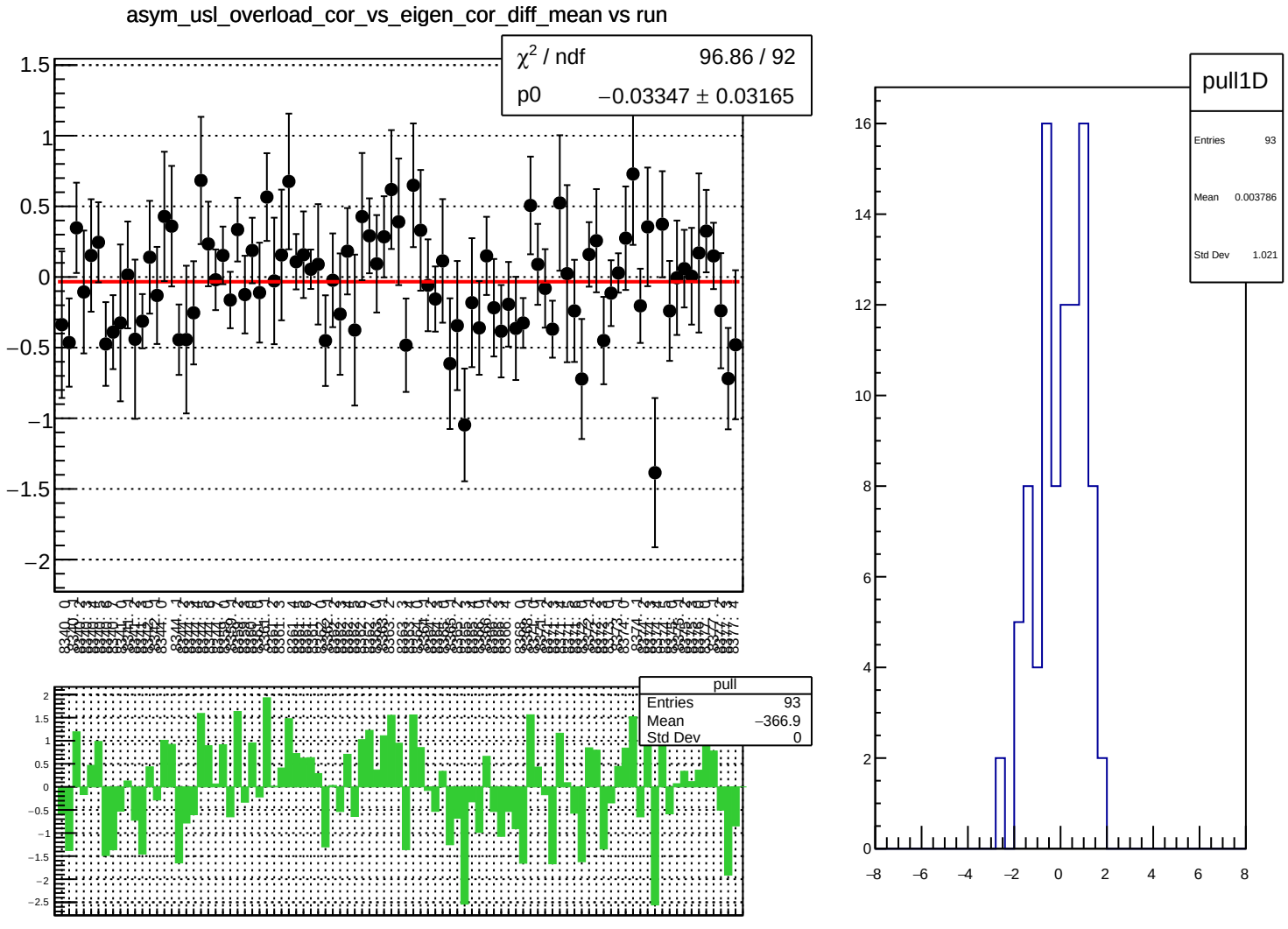

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.16 / 92
p0 −4.888e−14 ± 5.309e−14
pull
Entries 93
Mean −9.626
Std Dev 0

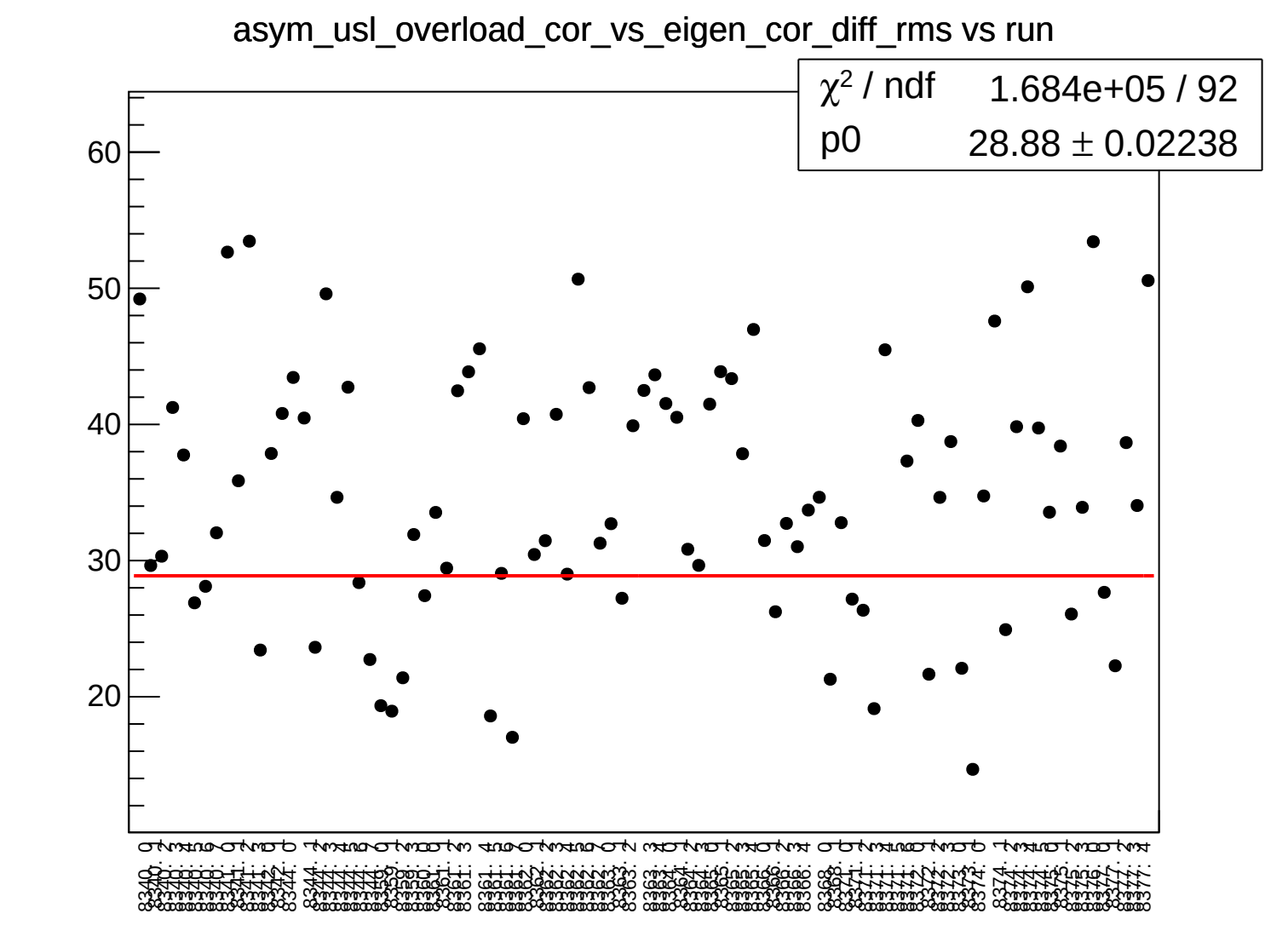

pull1D
Entries 93
Mean −0.04991
Std Dev 0.9443

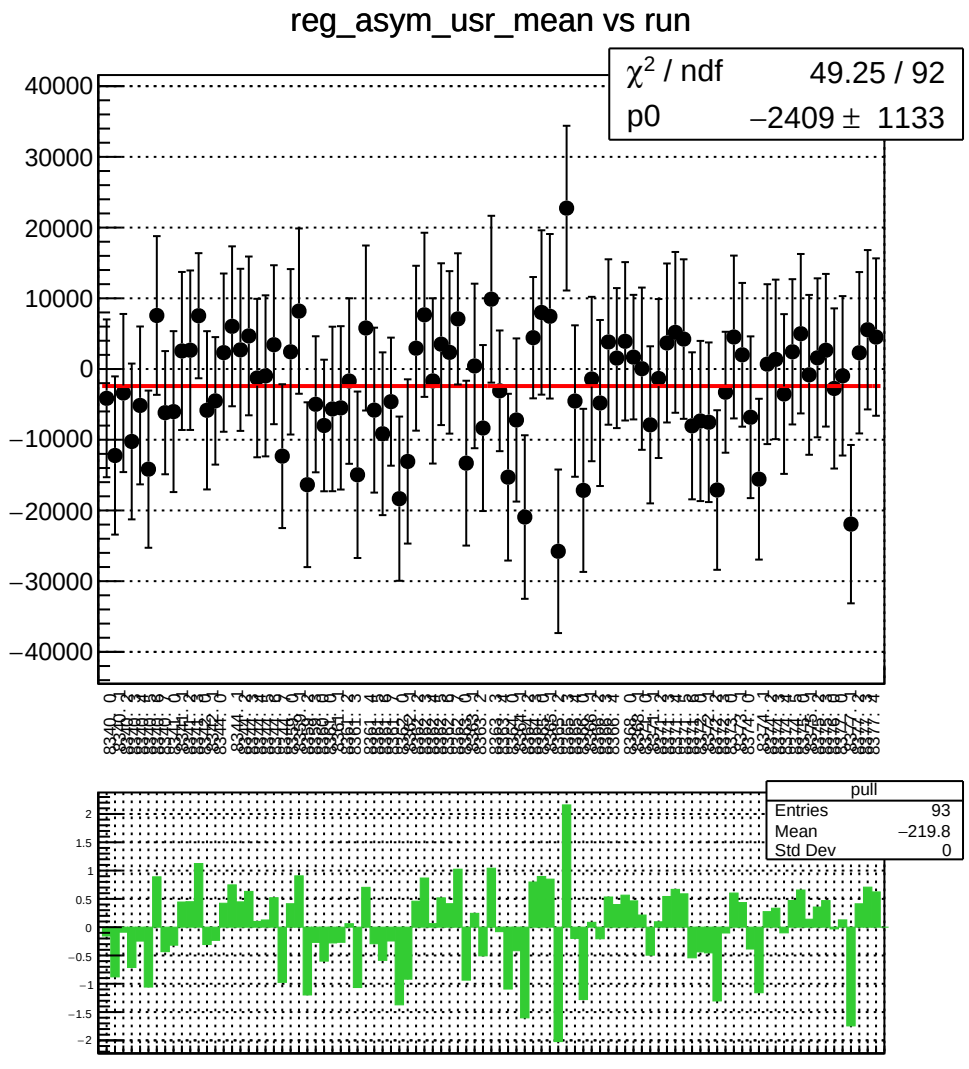

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.429e+05 / 92
p0 3.92e−11 ± 3.754e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

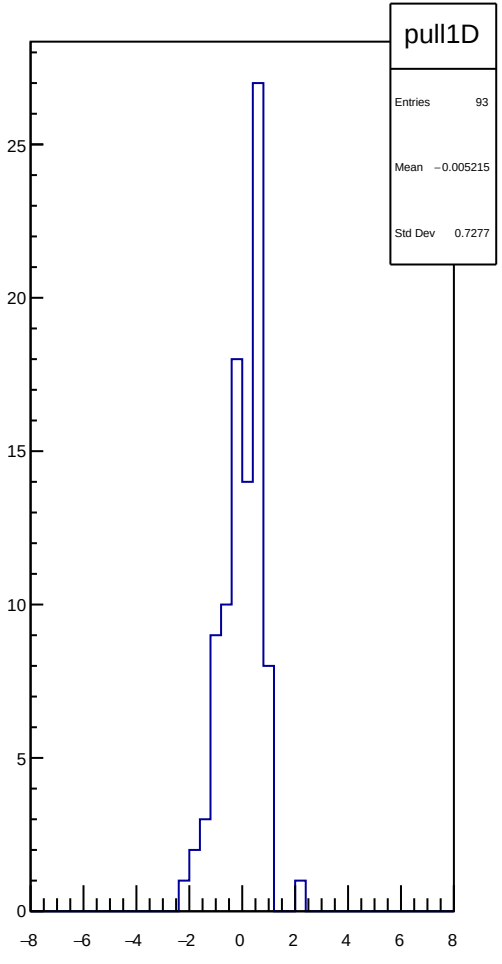

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 96.86 / 92
p0 −0.03347 ± 0.03165
pull
Entries 93
Mean −366.9
Std Dev 0
pull1D
Entries 93
Mean 0.003786
Std Dev 1.021

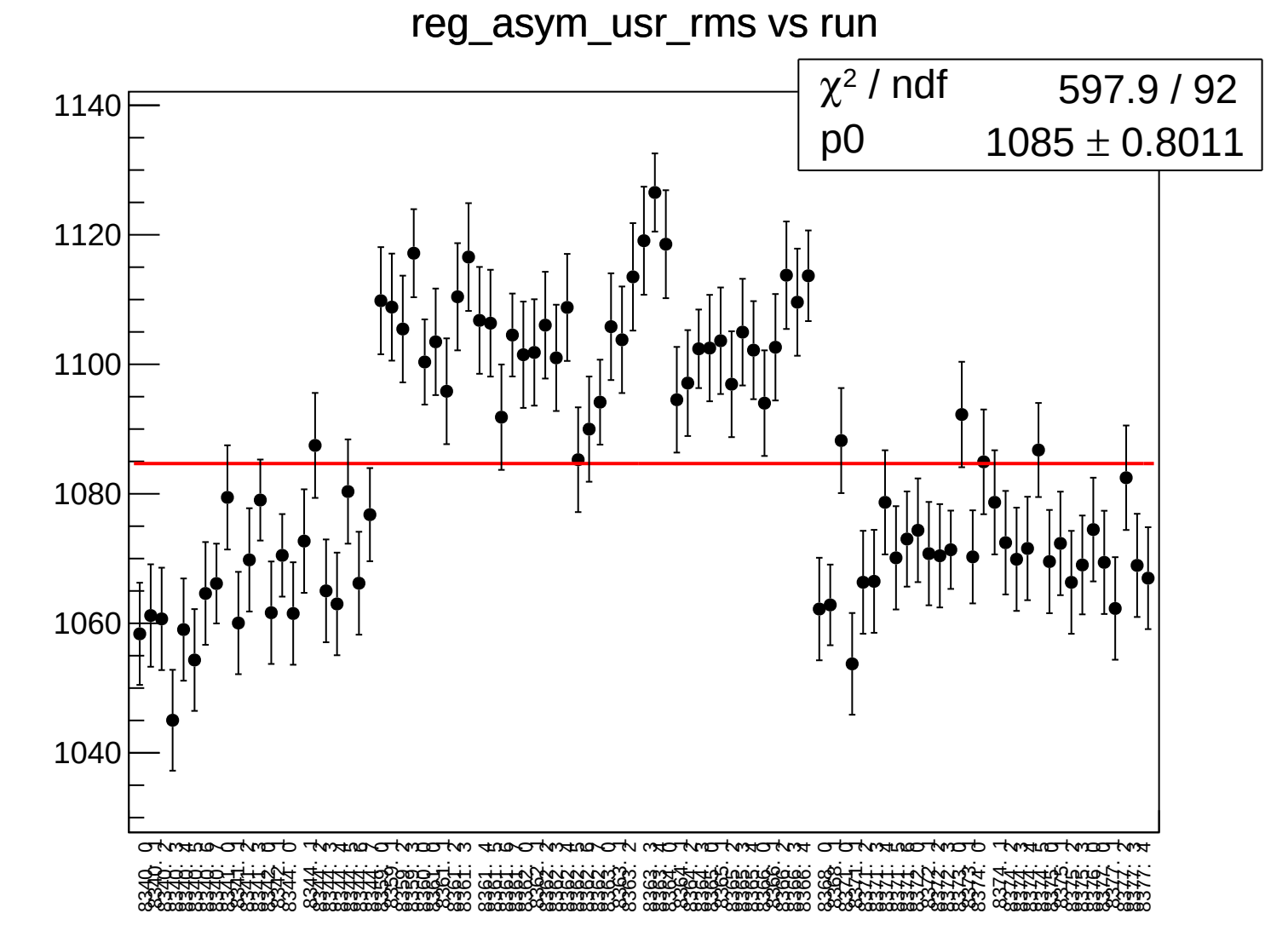

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.684e+05 / 92
p0 28.88 ± 0.02238
60
50
40
30
20

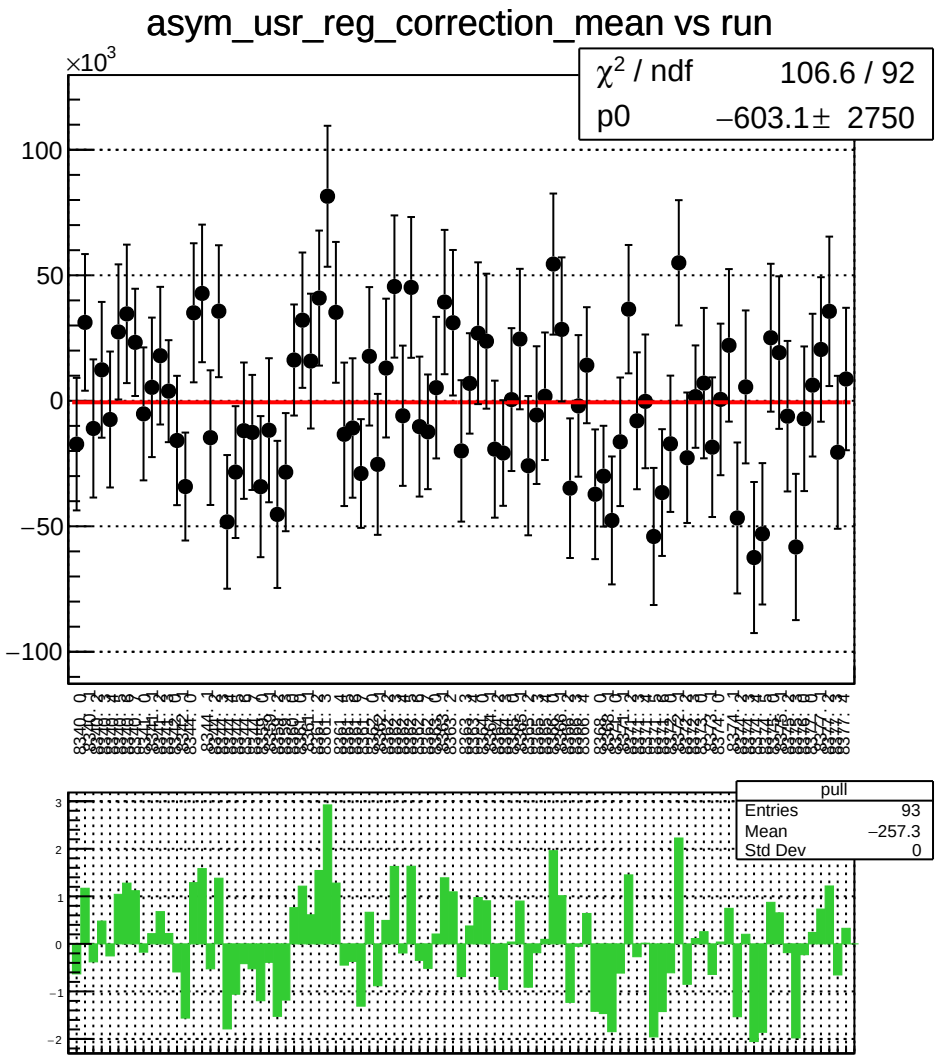

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.86 / 92
p0 −0.03347 ± 0.03165
pull
Entries 93
Mean −366.9
Std Dev 0
pull1D
Entries 93
Mean 0.003786
Std Dev 1.021

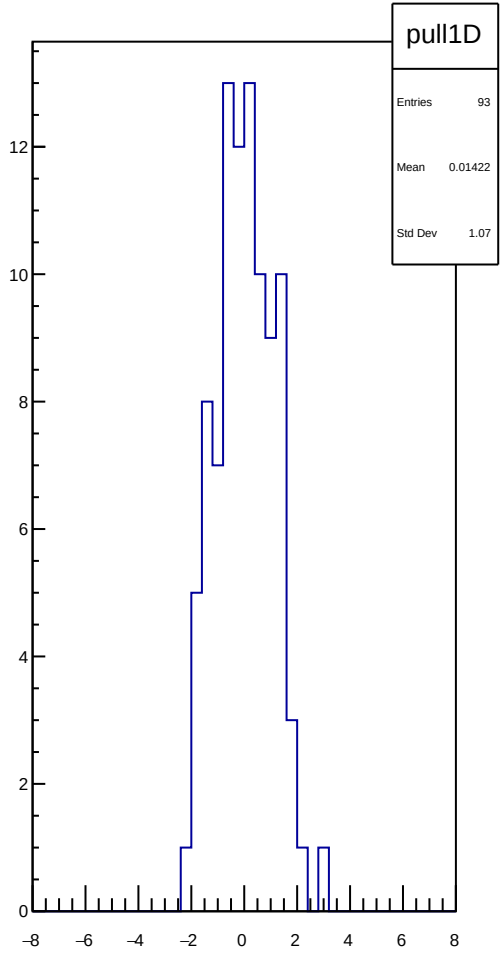

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.684e+05 / 92
p0 28.88 ± 0.02238
60
50
40
30
20

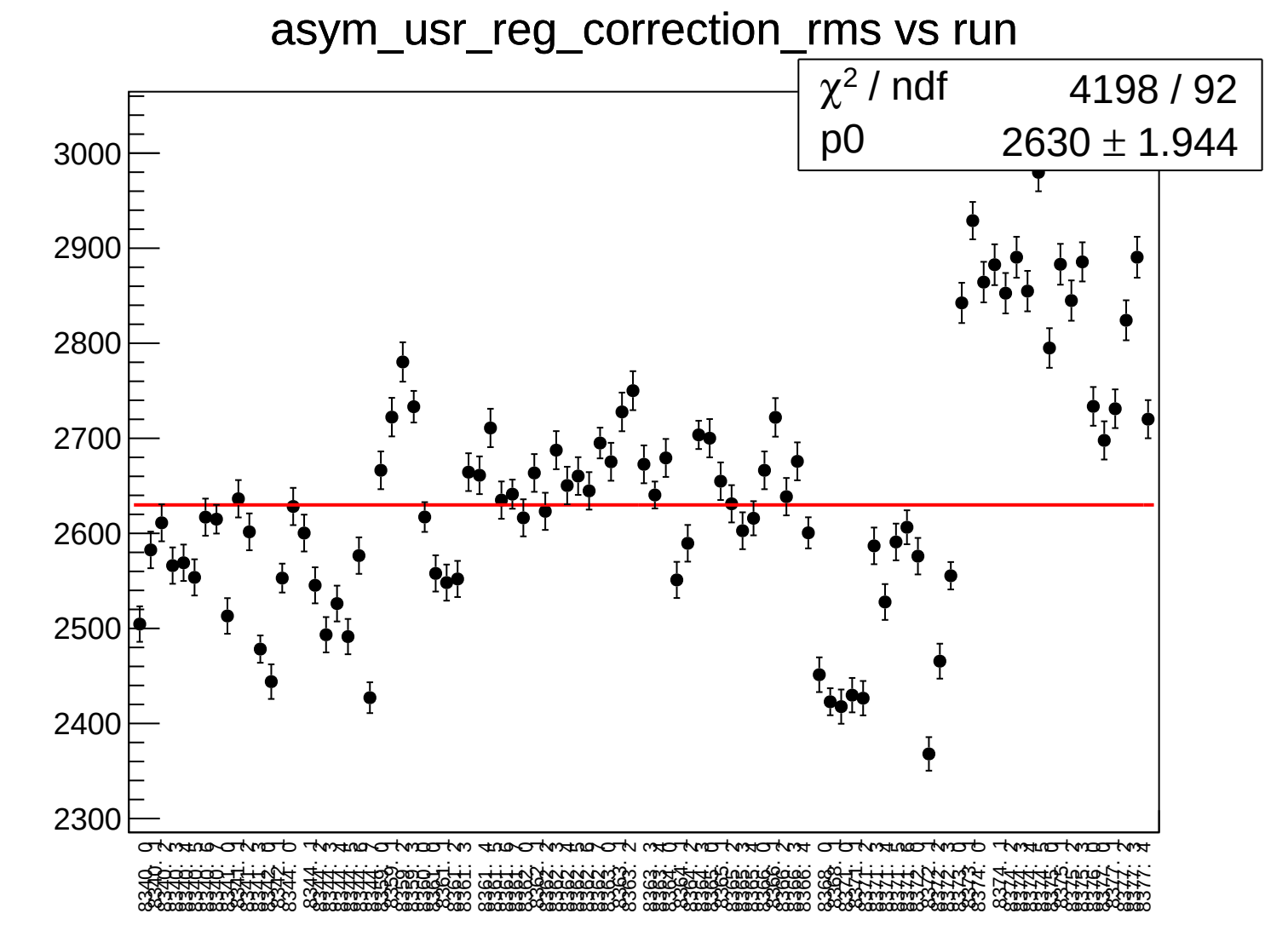

reg_asym_usr_mean vs run
χ² / ndf 49.25 / 92
p0 −2409 ± 1133
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −219.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

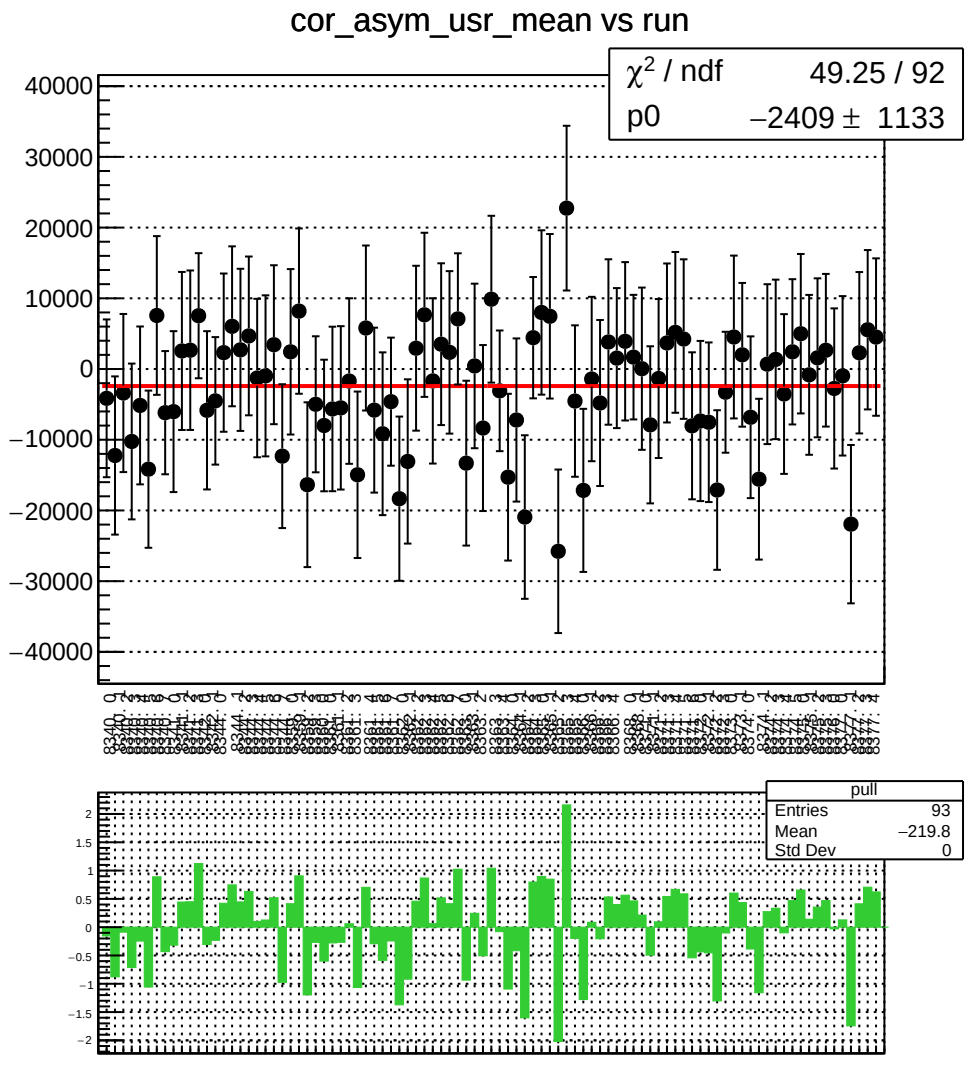

pull1D
Entries 93
Mean −0.005215
Std Dev 0.7277
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

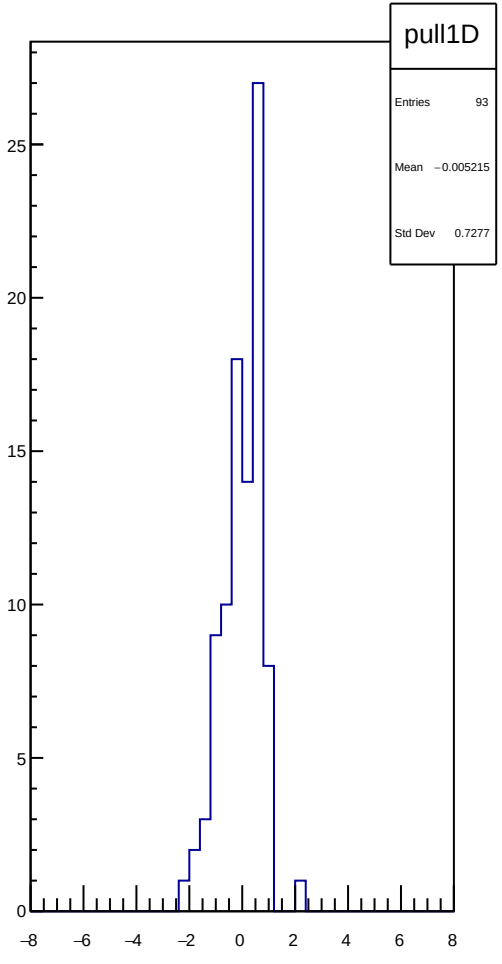

reg_asym_usr_rms vs run
χ² / ndf 597.9 / 92
p0 1085 ± 0.8011
1140
1120
1100
1080
1060
1040

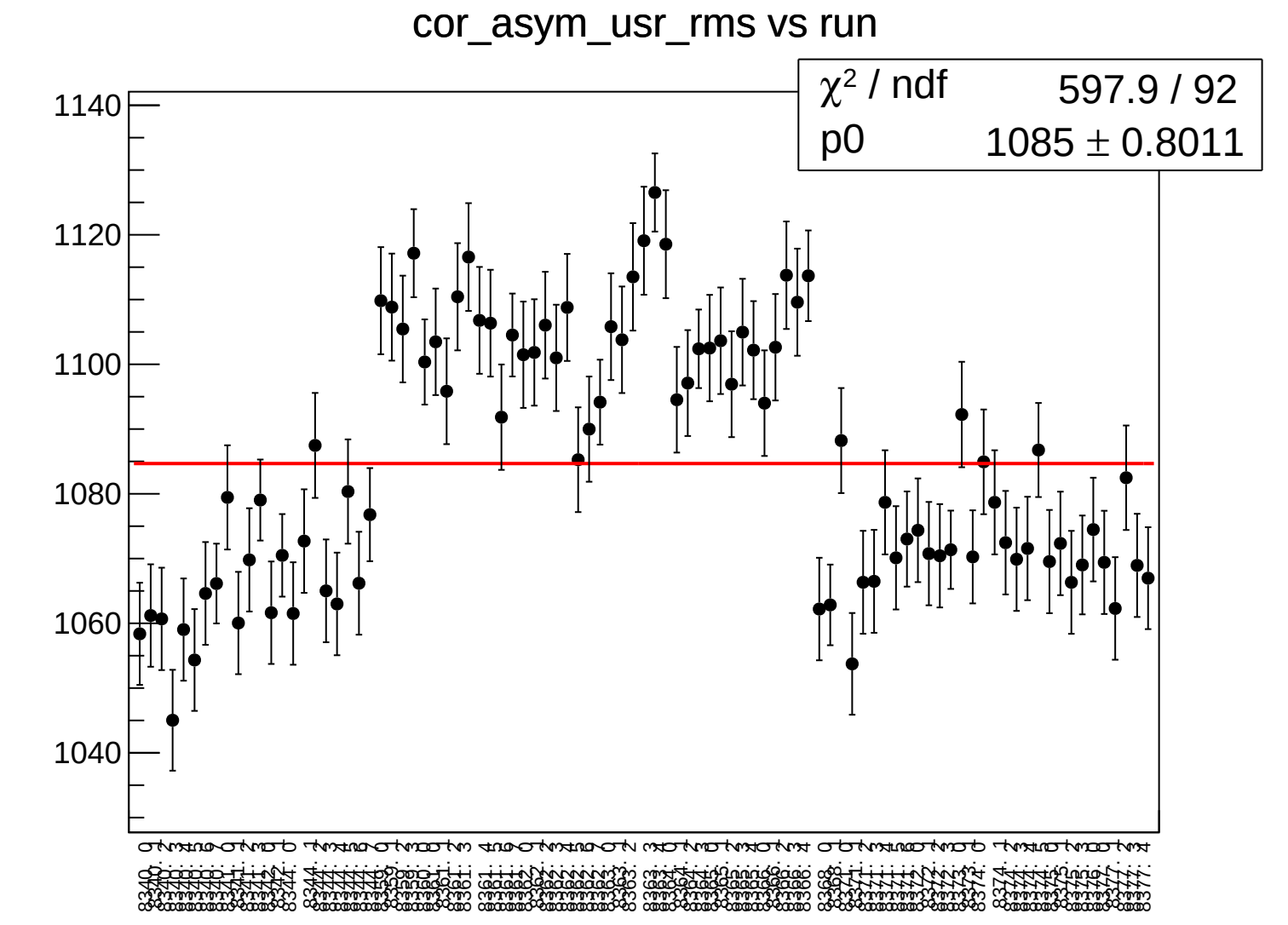

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 106.6 / 92
p0 −603.1± 2750
100
50
0
−50
−100
pull
Entries 93
Mean −257.3
Std Dev 0
3
2
1
0
−1
−2

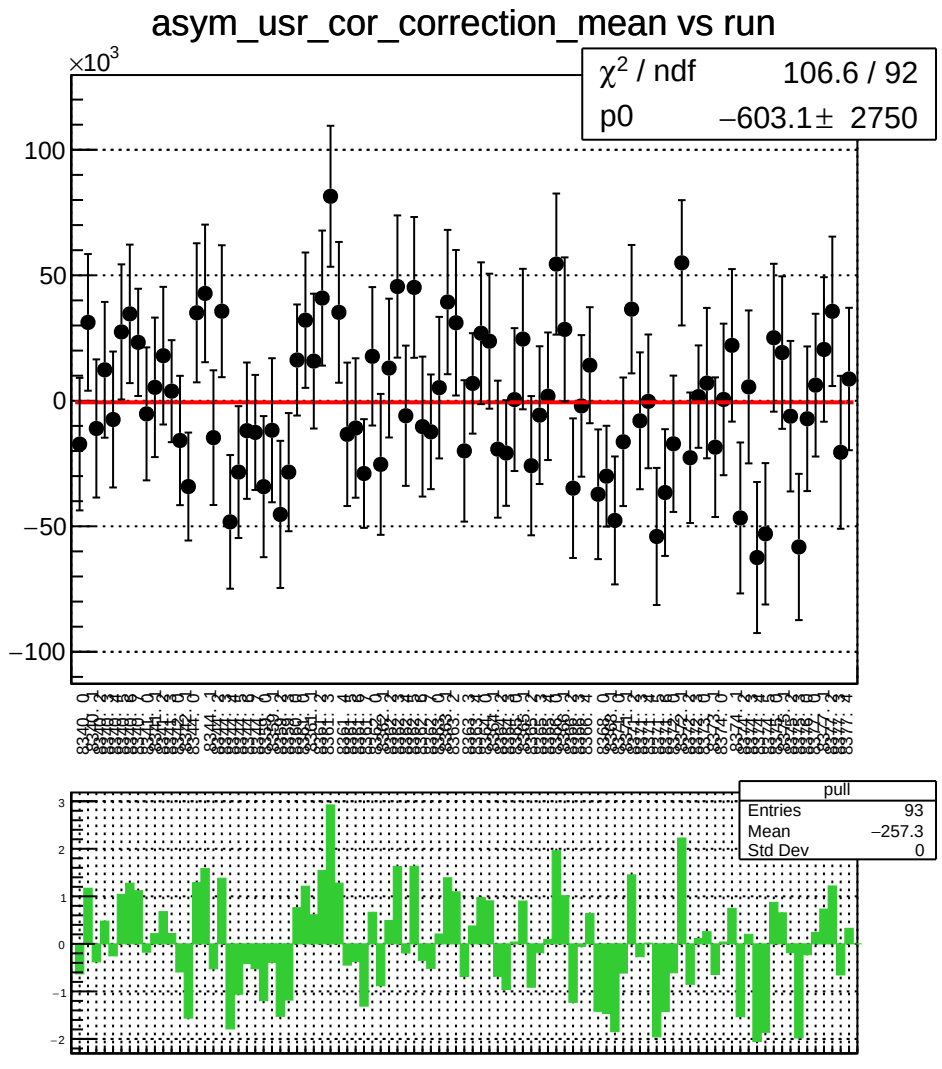

pull1D
Entries 93
Mean 0.01422
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

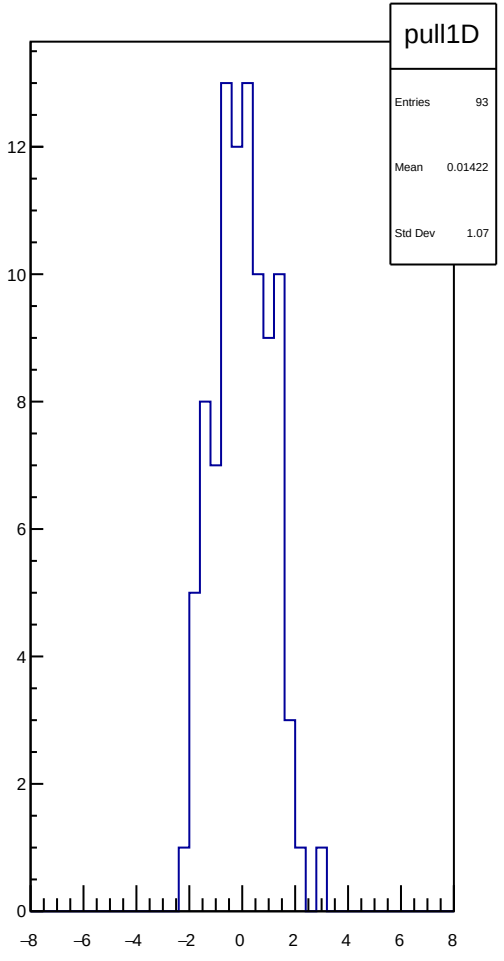

asym_usr_reg_correction_rms vs run
χ² / ndf 4198 / 92
p0 2630 ± 1.944
3000
2900
2800
2700
2600
2500
2400
2300

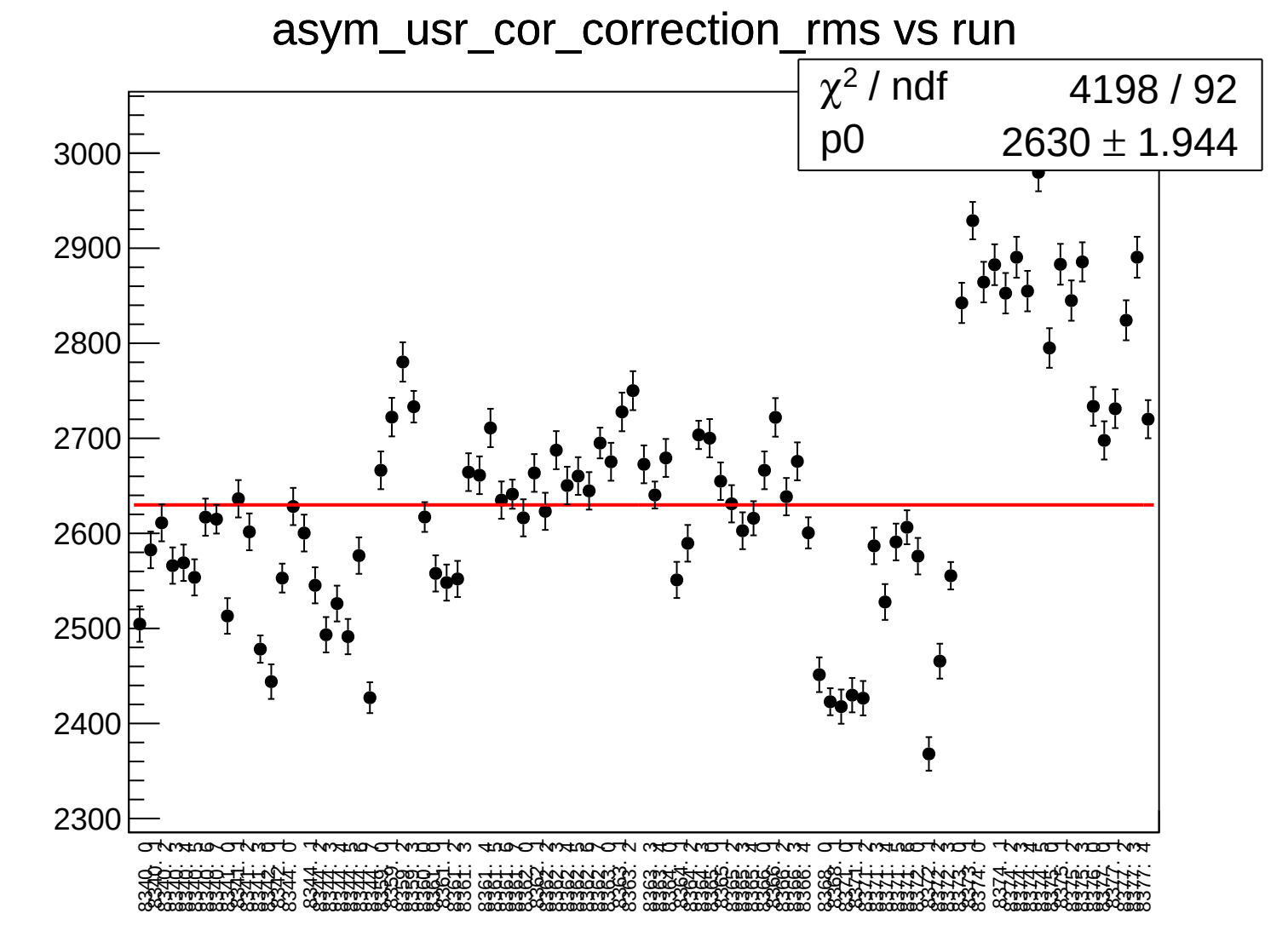

cor_asym_usr_mean vs run
χ² / ndf 49.25 / 92
p0 −2409 ± 1133
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −219.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

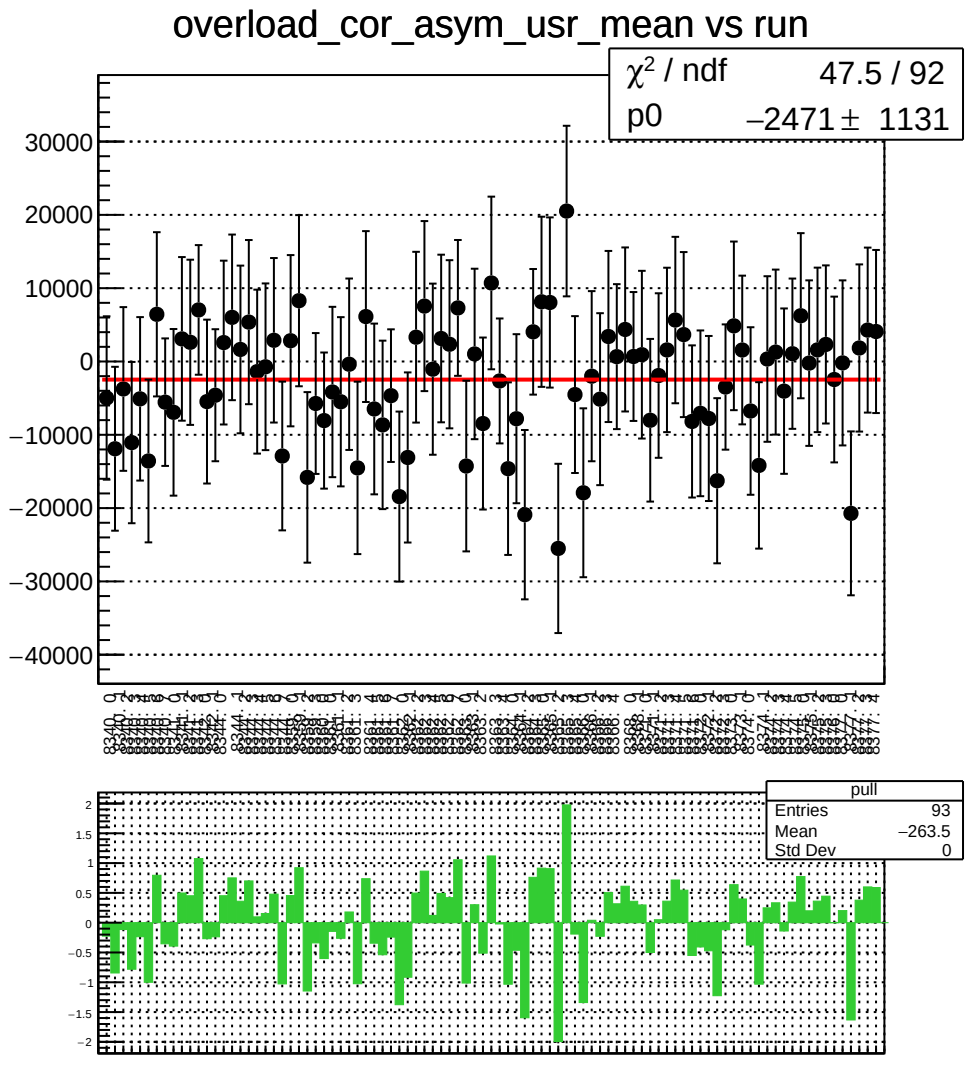

pull1D
Entries 93
Mean −0.005215
Std Dev 0.7277
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

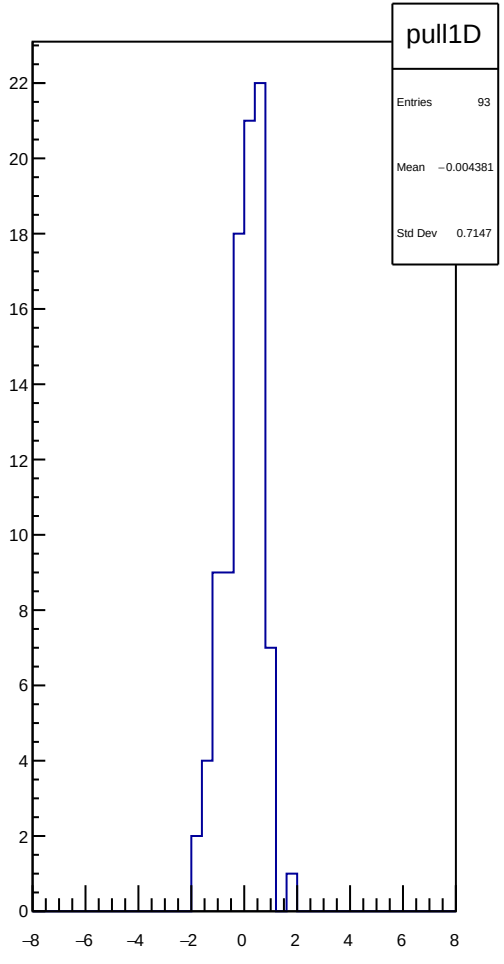

cor_asym_usr_rms vs run
χ² / ndf 597.9 / 92
p0 1085 ± 0.8011
1140
1120
1100
1080
1060
1040

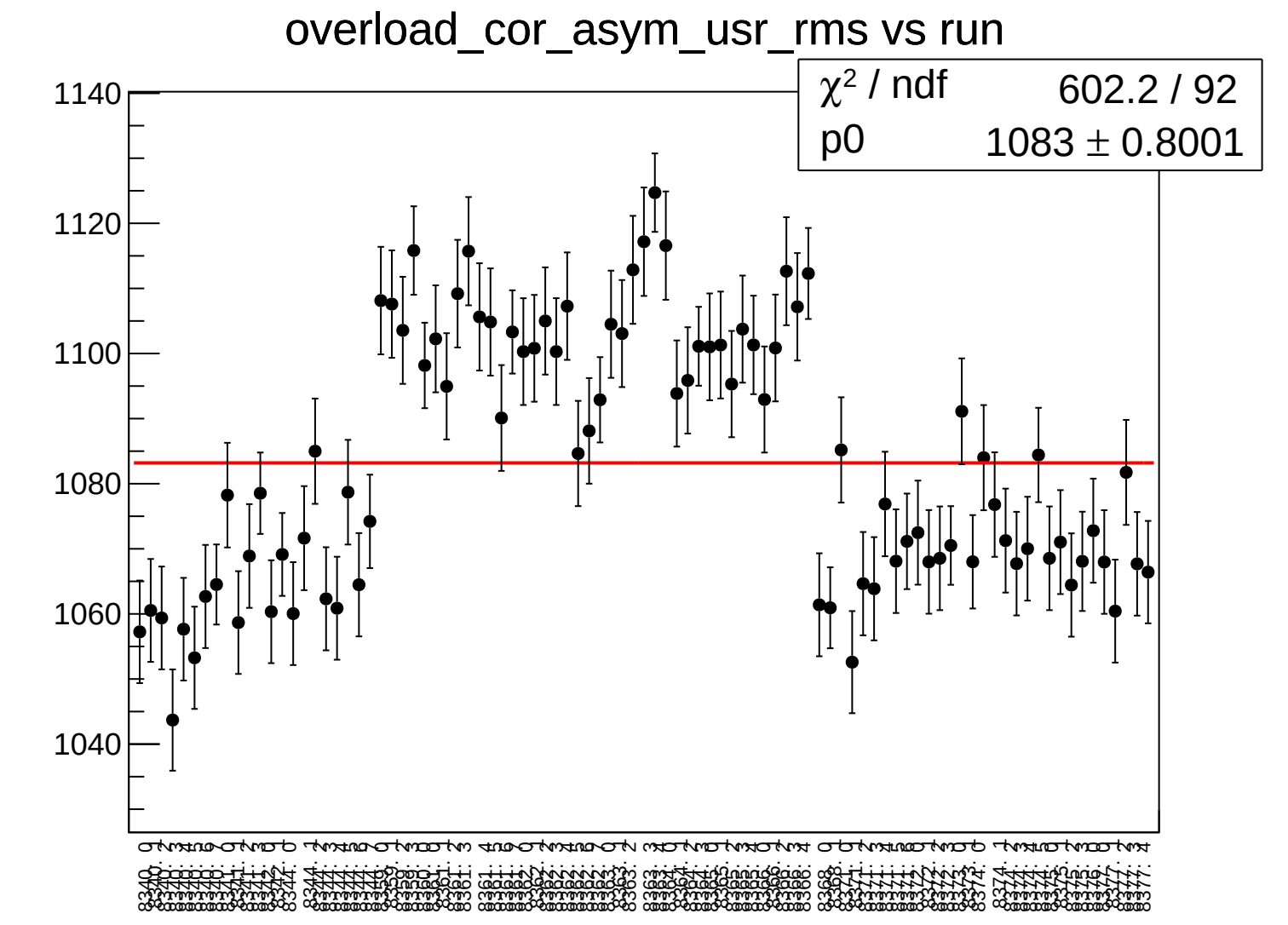

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 106.6 / 92
p0 −603.1± 2750
100
50
0
−50
−100
pull
Entries 93
Mean −257.3
Std Dev 0
3
2
1
0
−1
−2

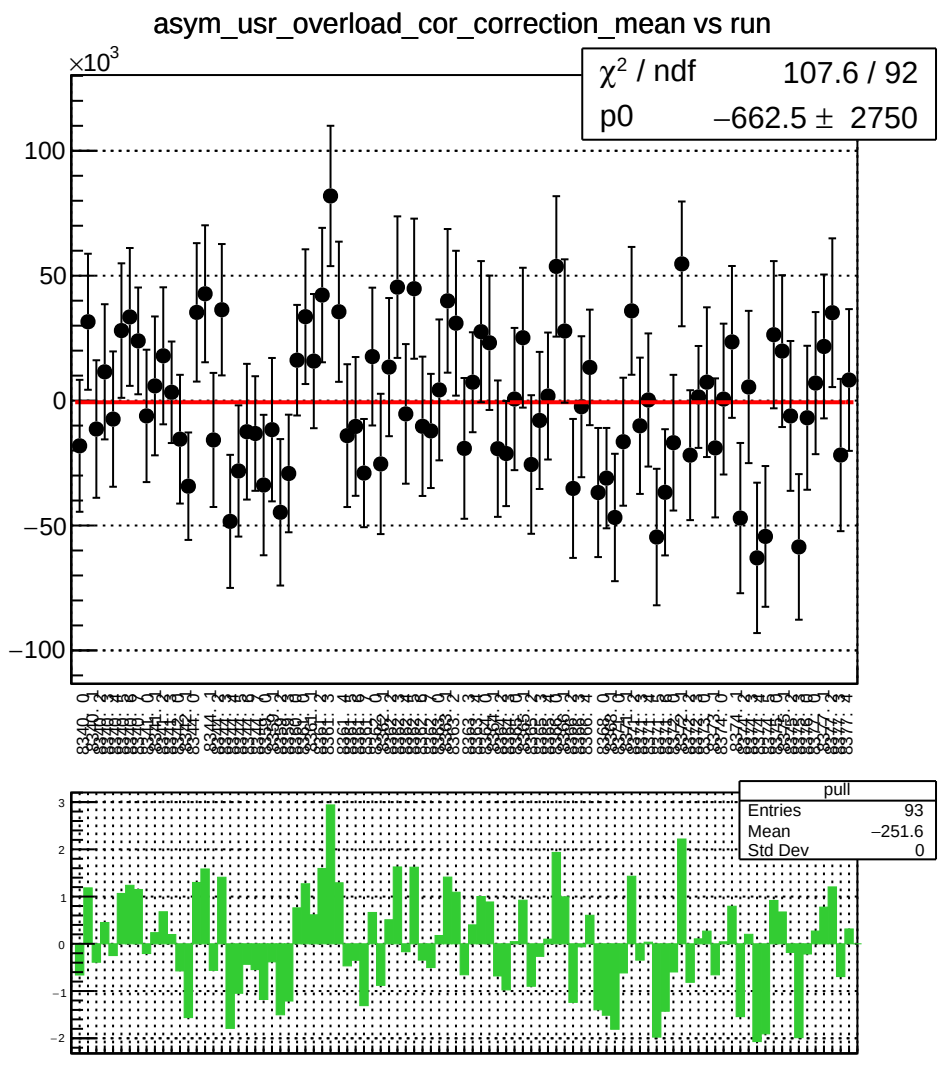

pull1D
Entries 93
Mean 0.01422
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

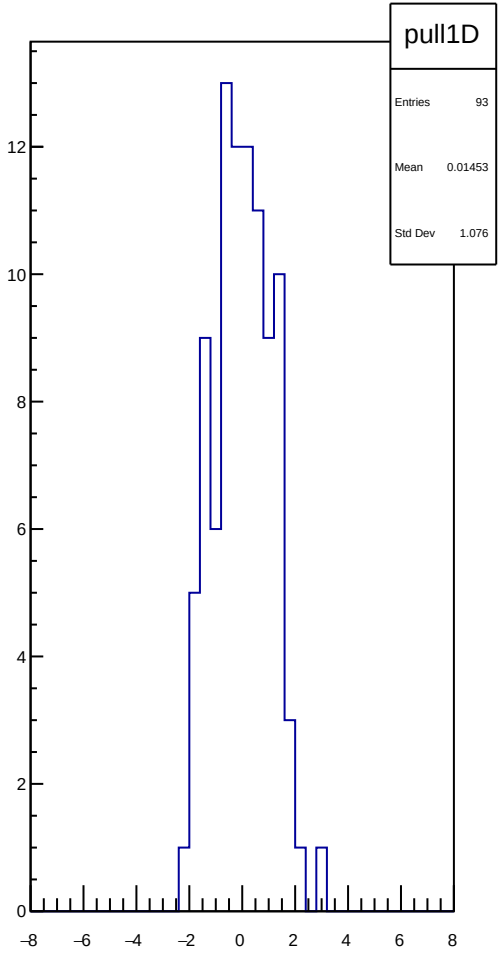

asym_usr_cor_correction_rms vs run
χ² / ndf 4198 / 92
p0 2630 ± 1.944
3000
2900
2800
2700
2600
2500
2400
2300

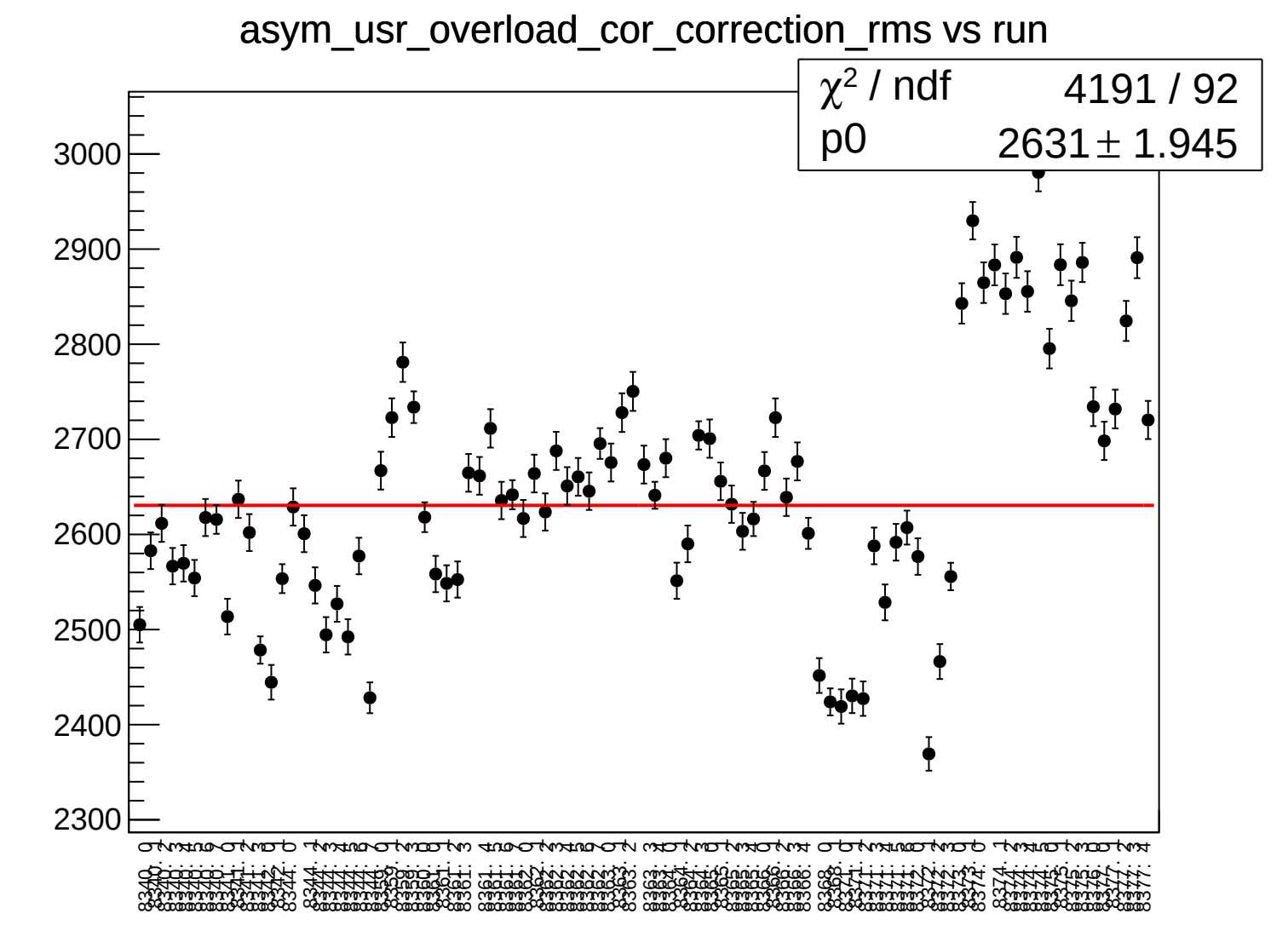

overload_cor_asym_usr_mean vs run
χ² / ndf 47.5 / 92
p0 −2471 ± 1131
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −263.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

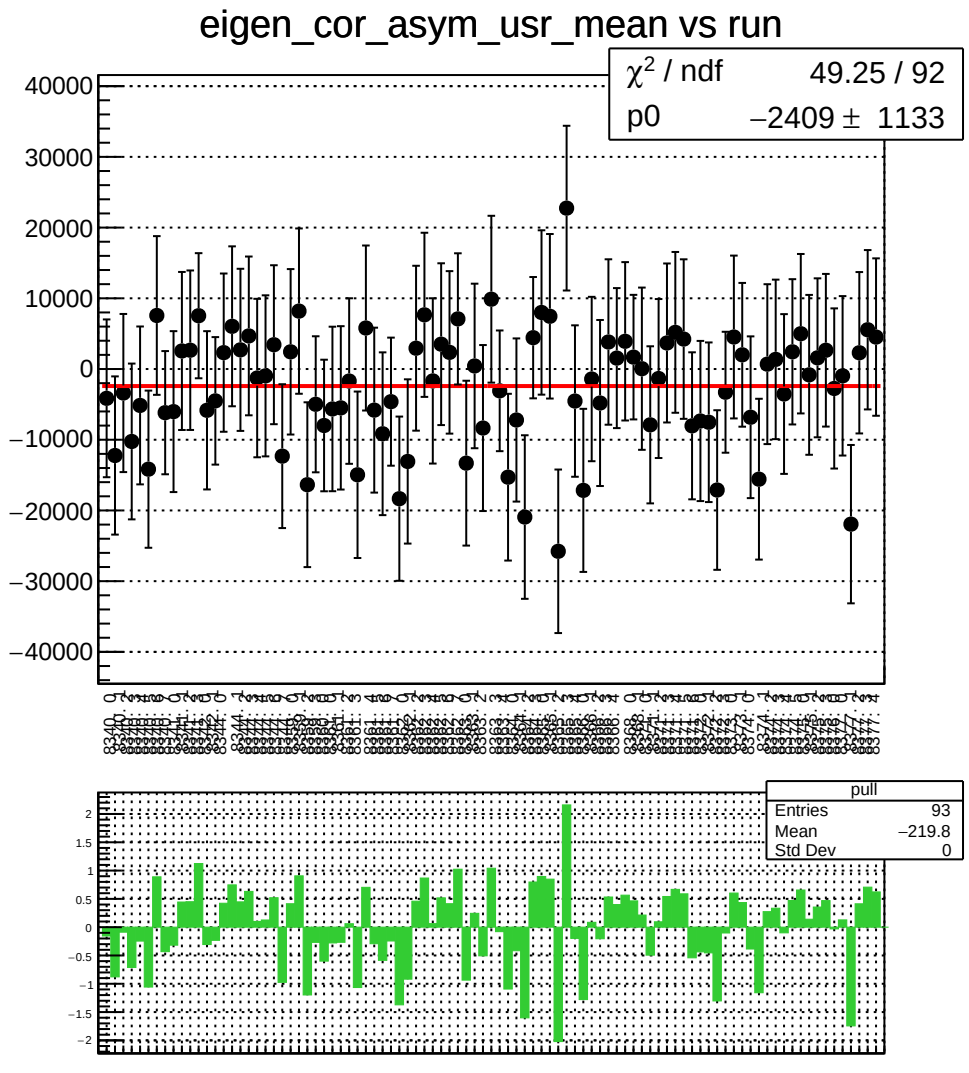

pull1D
Entries 93
Mean −0.004381
Std Dev 0.7147
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

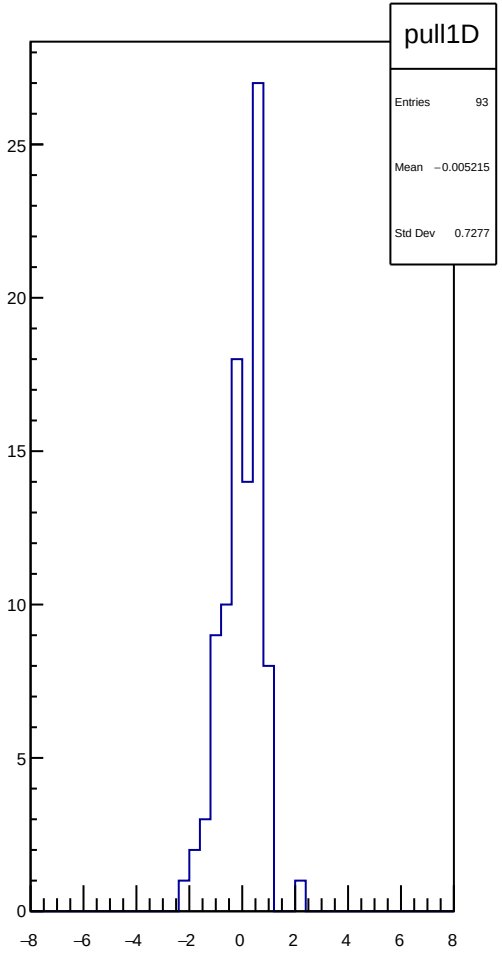

overload_cor_asym_usr_rms vs run
χ² / ndf 602.2 / 92
p0 1083 ± 0.8001
1140
1120
1100
1080
1060
1040

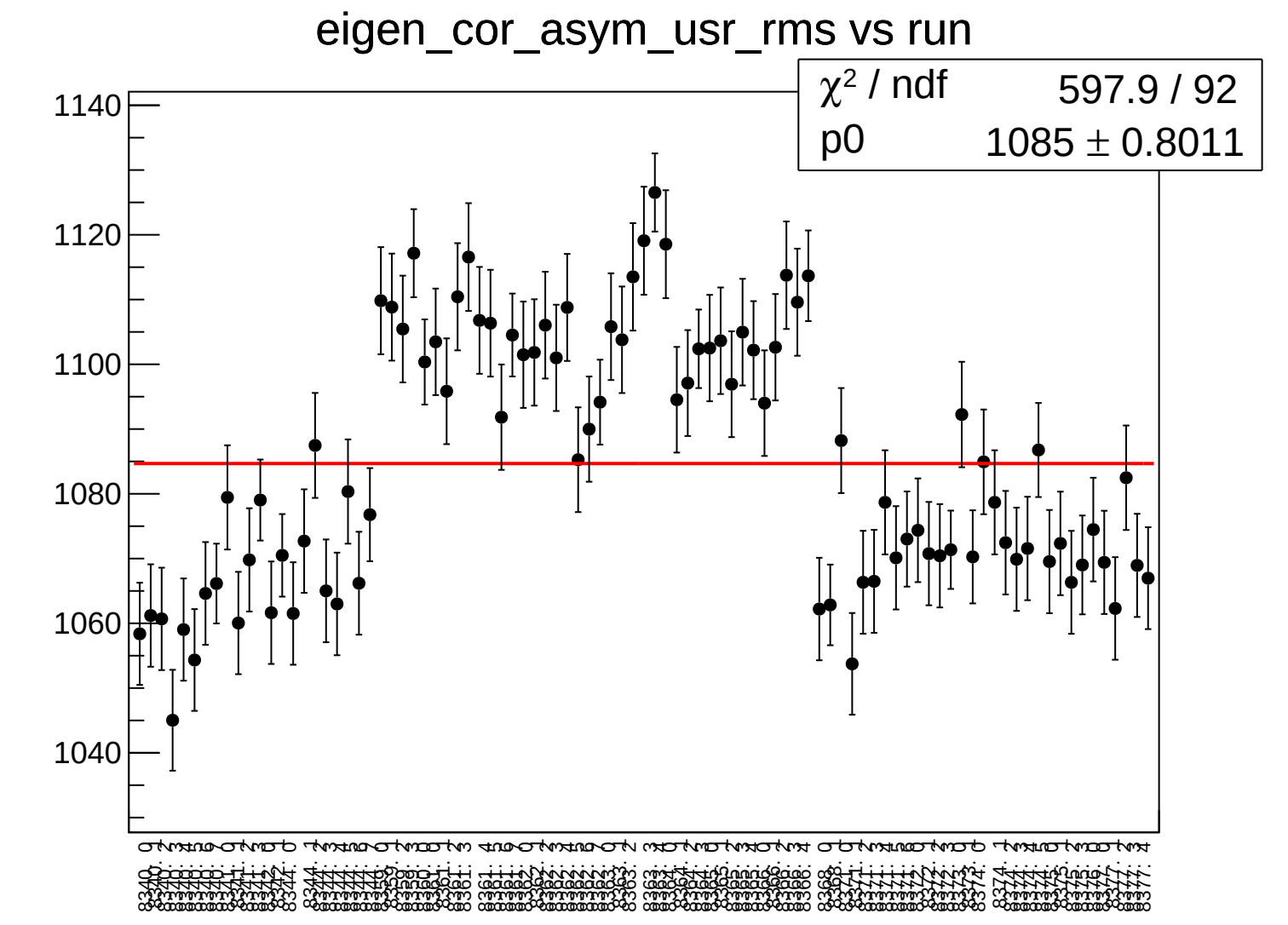

asym_usr_overload_cor_correction_mean vs run
χ^2 / ndf 107.6 / 92
p0 −662.5 ± 2750
×10^3
100
50
0
−50
−100
pull
Entries 93
Mean −251.6
Std Dev 0
3
2
1
0
−1
−2

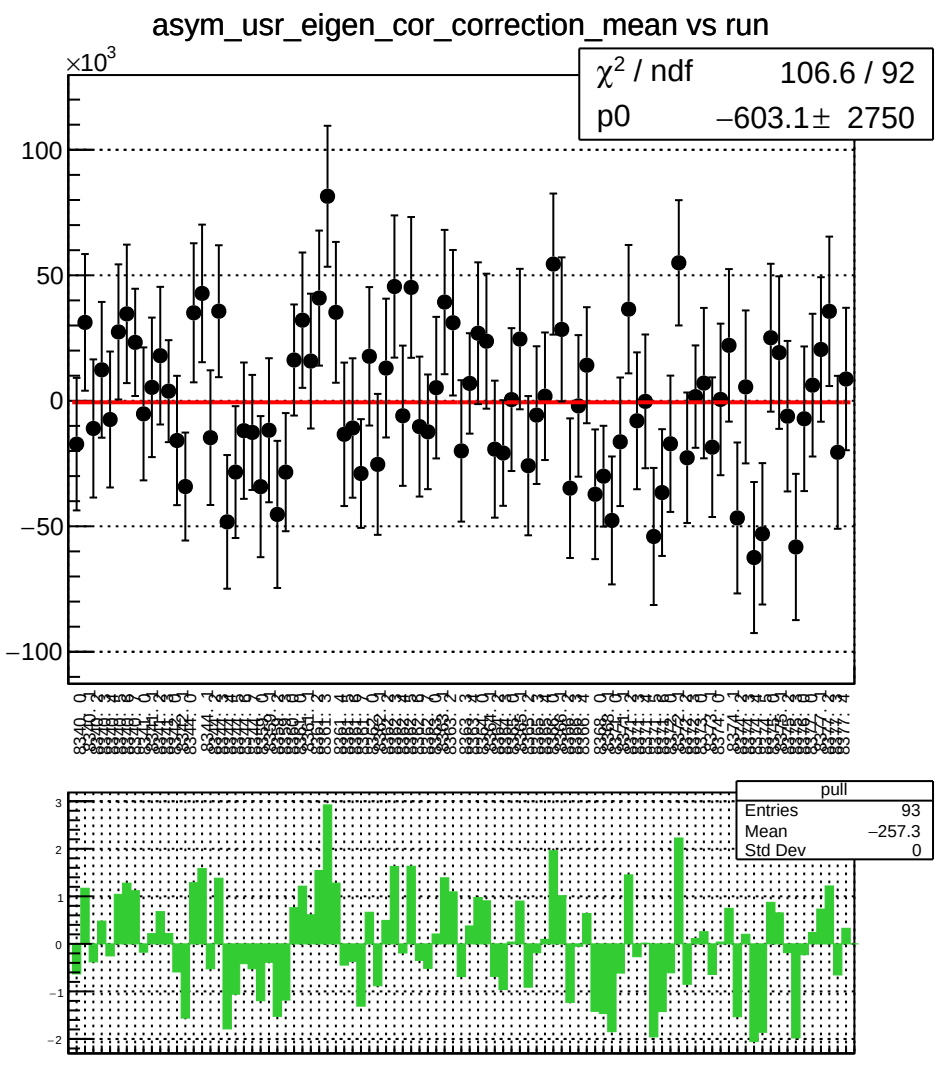

pull1D
Entries 93
Mean 0.01453
Std Dev 1.076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

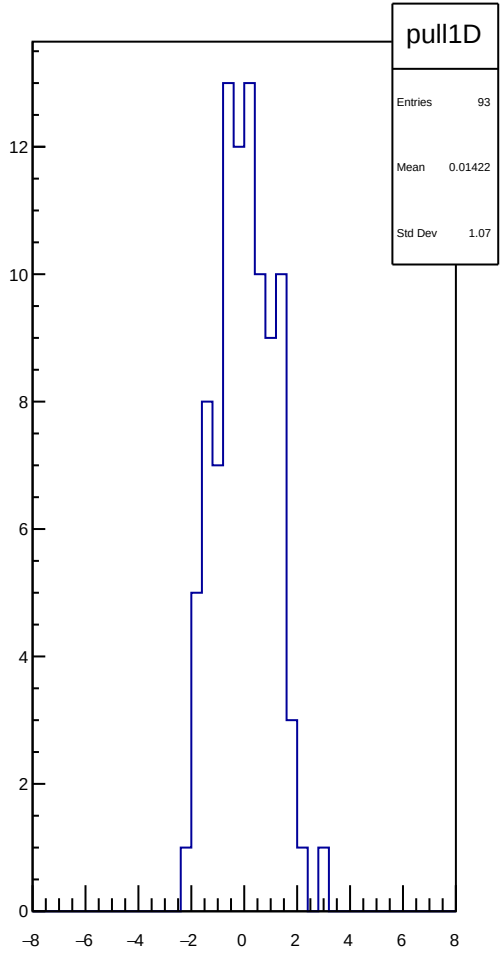

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4191 / 92
p0 2631 ± 1.945
3000
2900
2800
2700
2600
2500
2400
2300

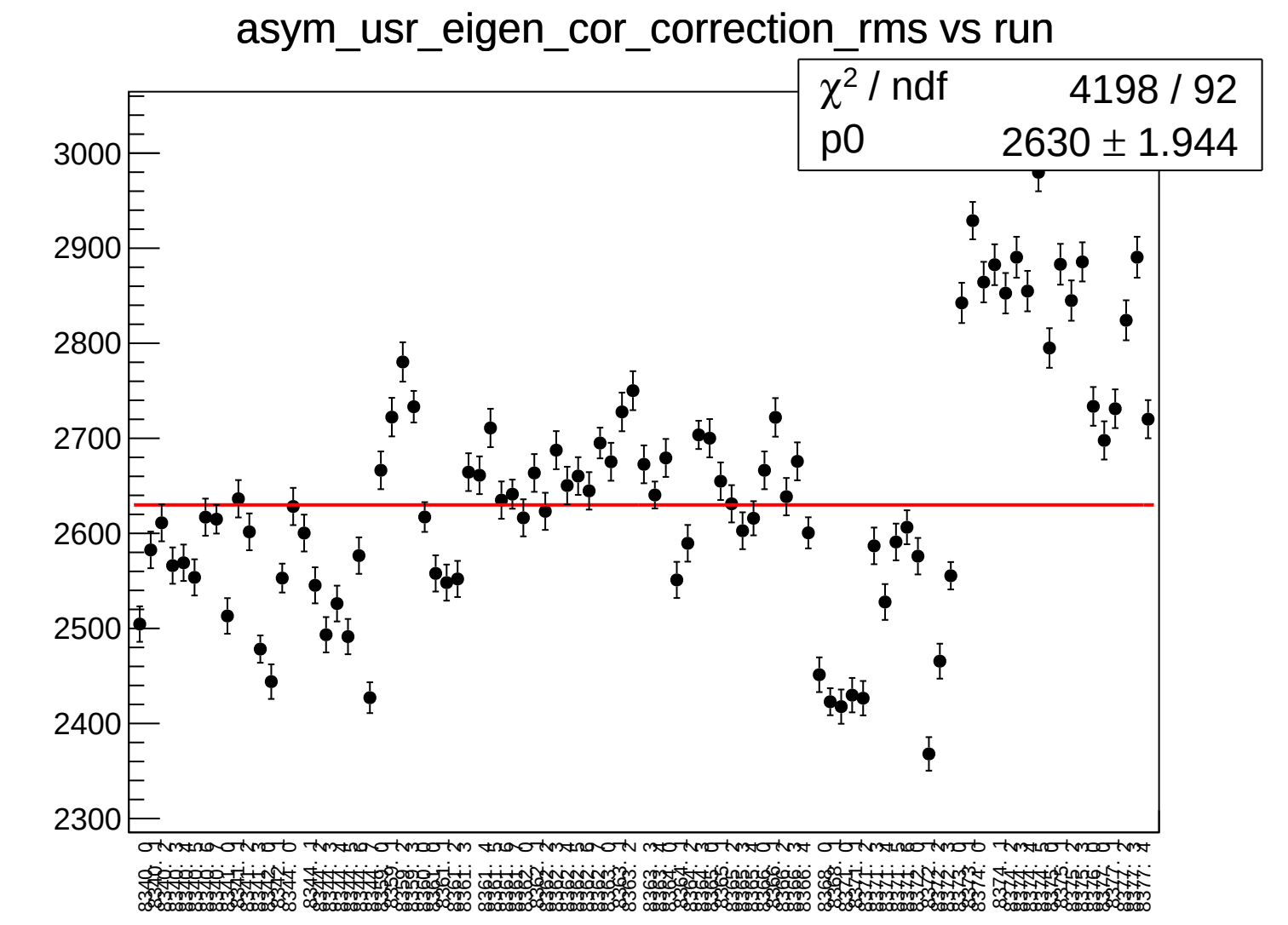

eigen_cor_asym_usr_mean vs run
χ² / ndf 49.25 / 92
p0 −2409 ± 1133
pull
Entries 93
Mean −219.8
Std Dev 0

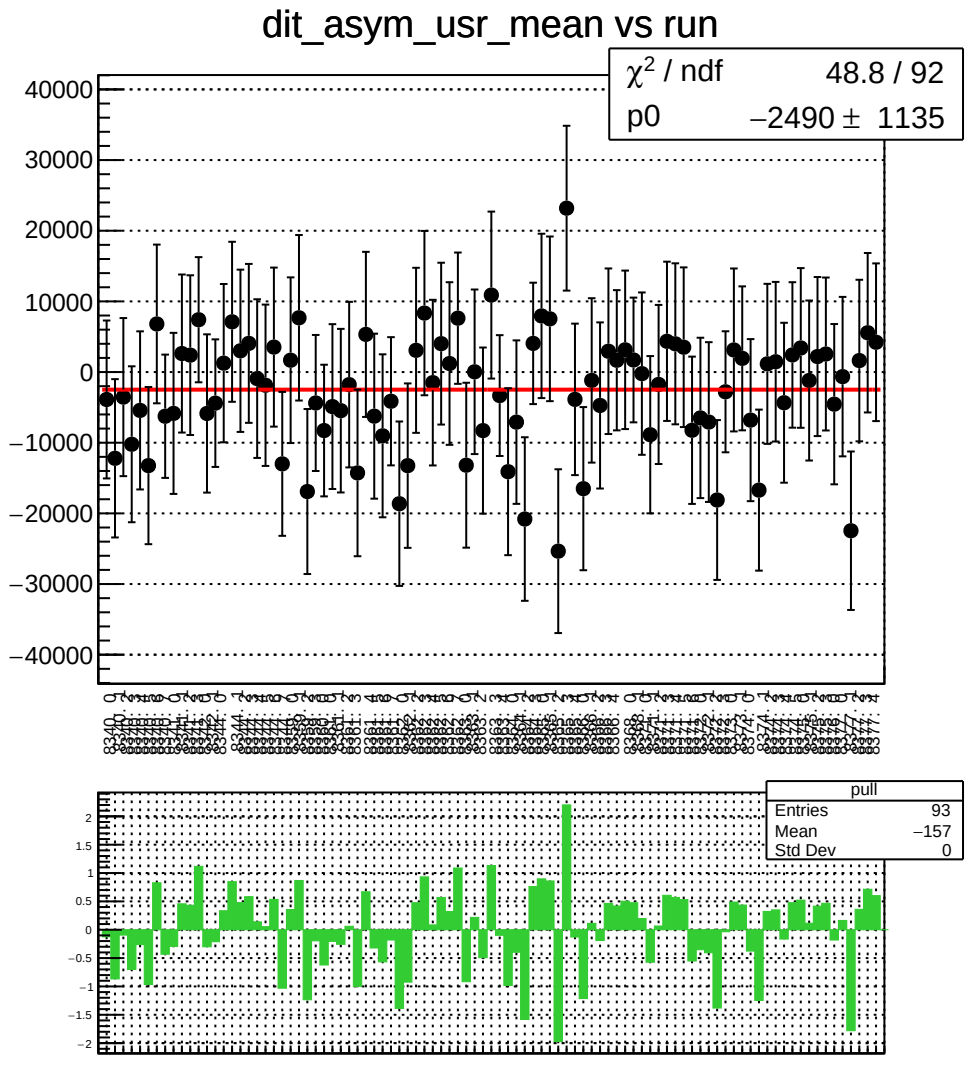

pull1D
Entries 93
Mean −0.005215
Std Dev 0.7277

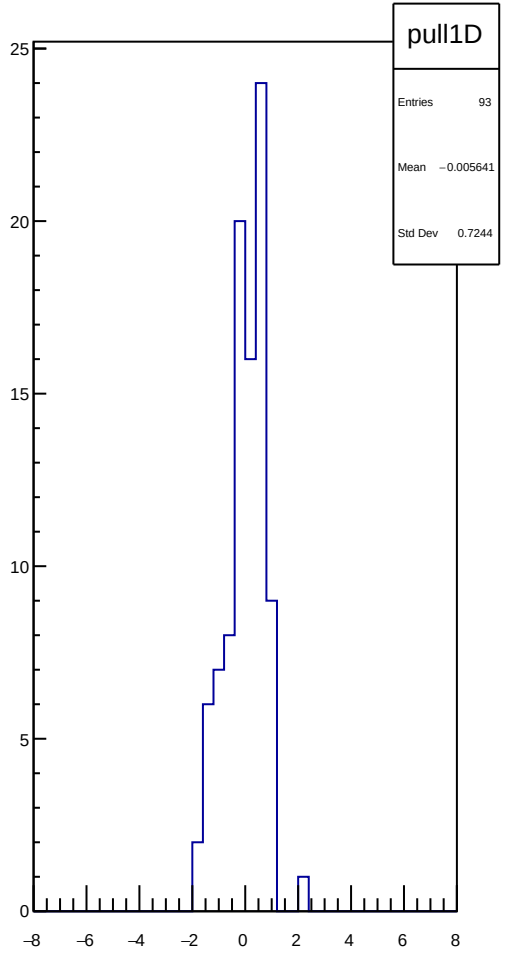

eigen_cor_asym_usr_rms vs run
χ² / ndf 597.9 / 92
p0 1085 ± 0.8011
1140
1120
1100
1080
1060
1040

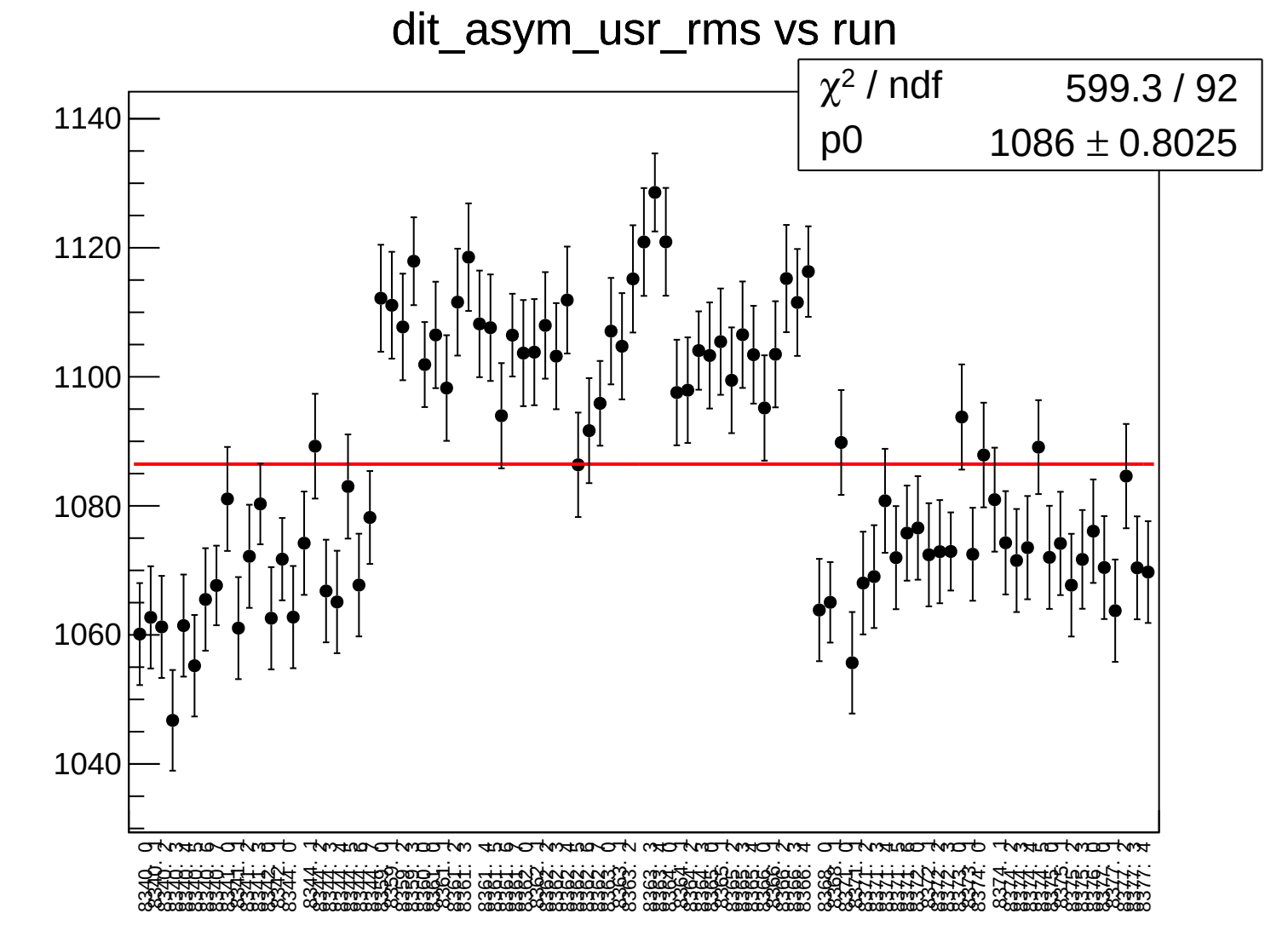

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.6 / 92
p0 −603.1± 2750
100
50
0
−50
−100
pull
Entries 93
Mean −257.3
Std Dev 0
3
2
1
0
−1
−2

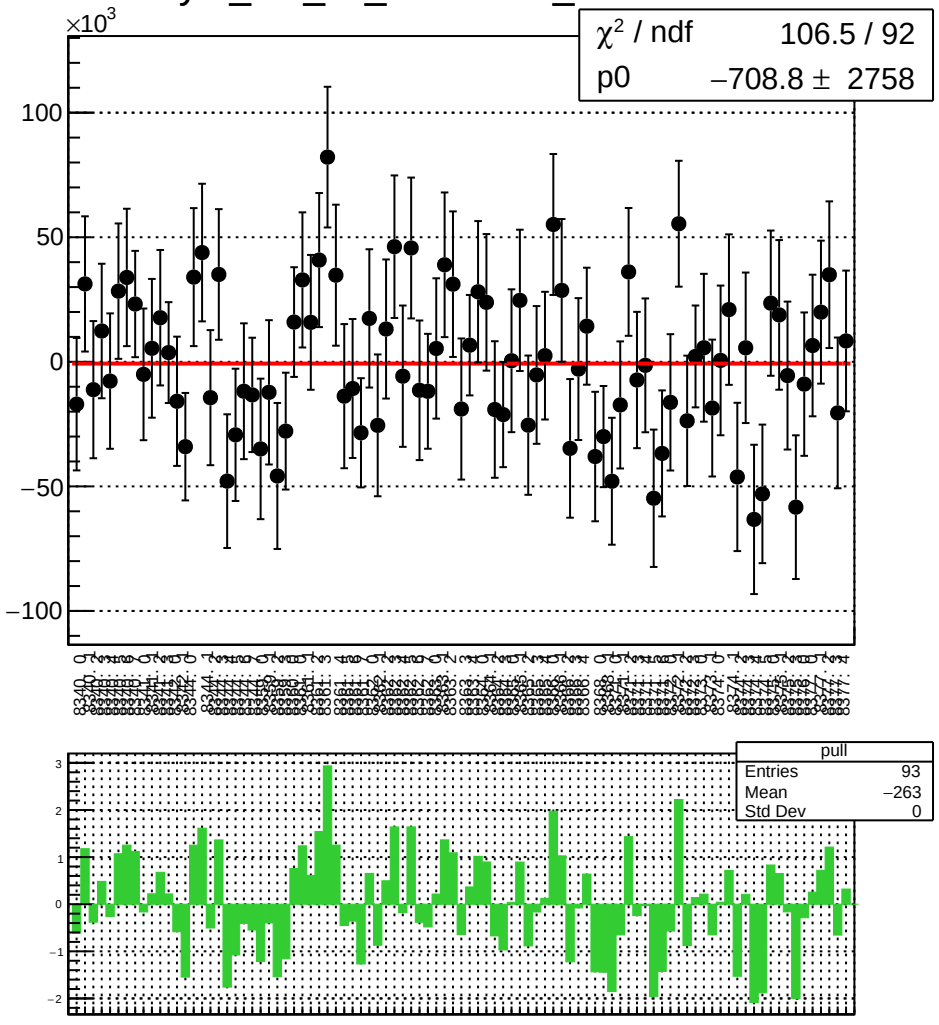

pull1D
Entries 93
Mean 0.01422
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

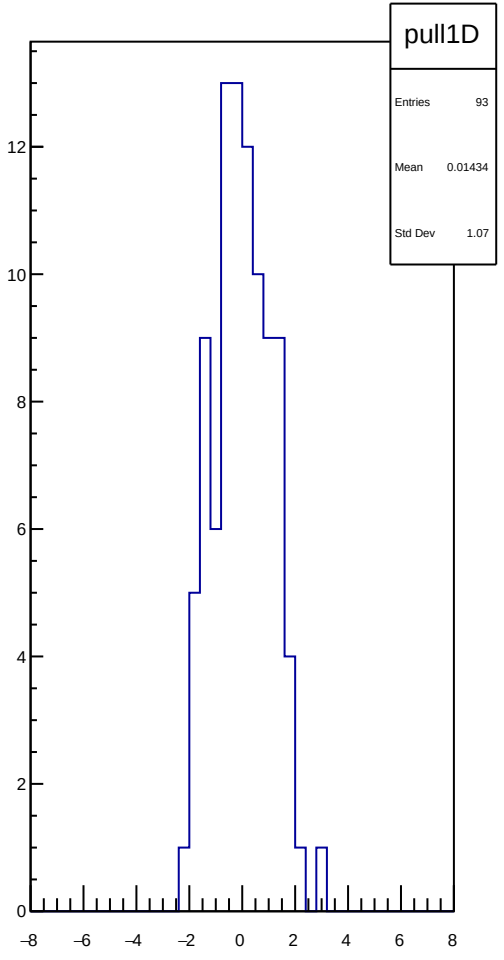

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4198 / 92
p0 2630 ± 1.944
3000
2900
2800
2700
2600
2500
2400
2300

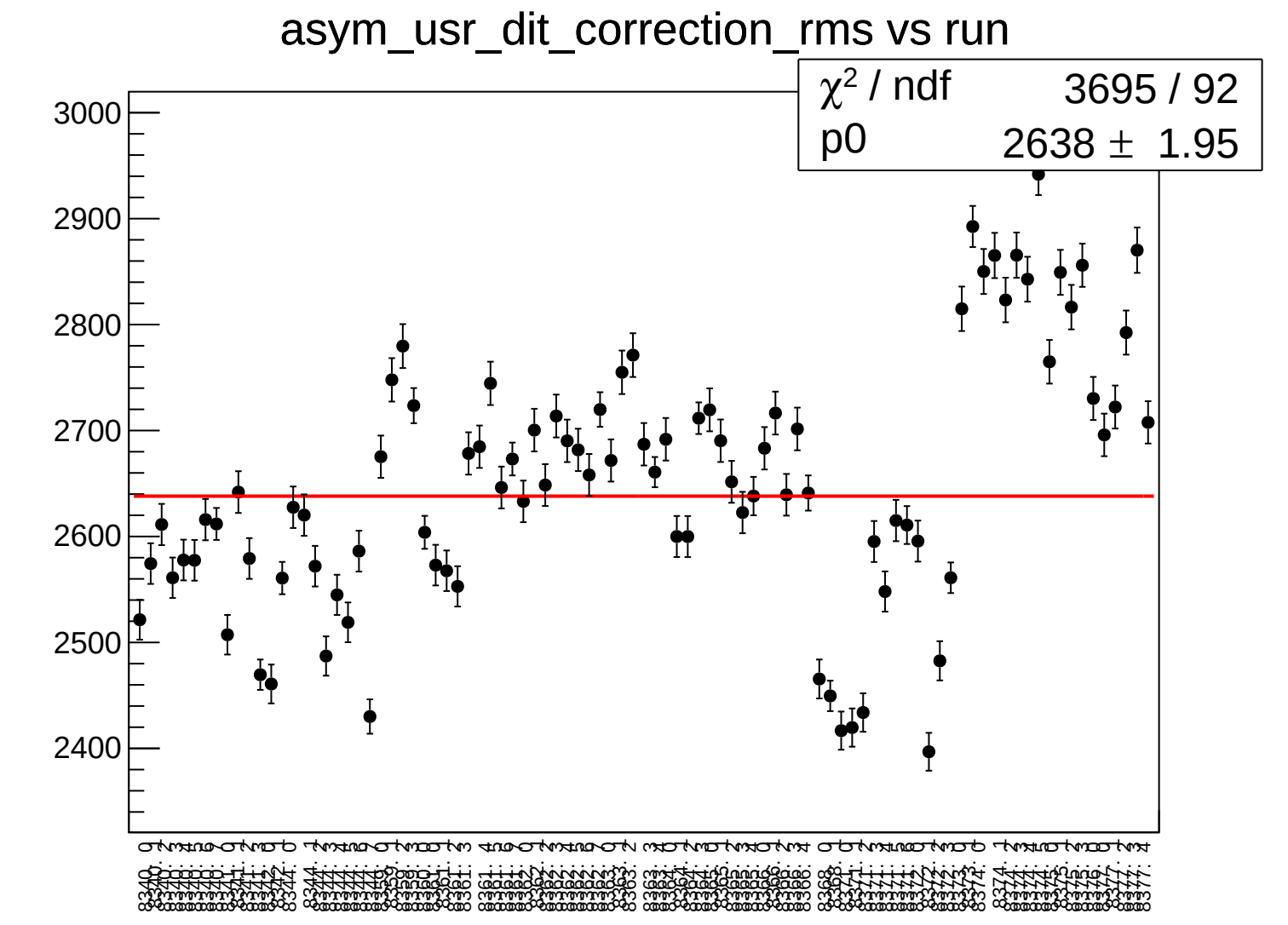

dit_asym_usr_mean vs run
χ² / ndf 48.8 / 92
p0 −2490 ± 1135
pull
Entries 93
Mean −157
Std Dev 0

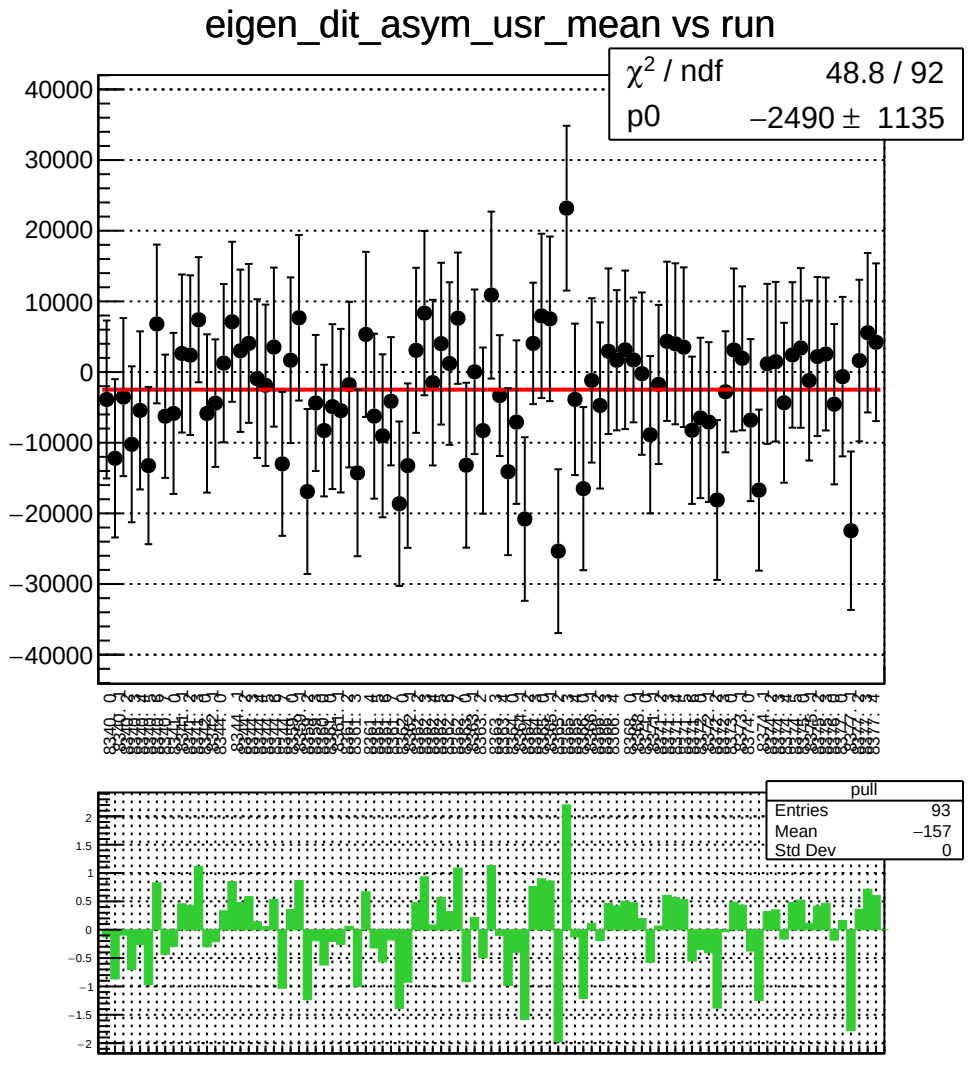

pull1D
Entries 93
Mean −0.005641
Std Dev 0.7244

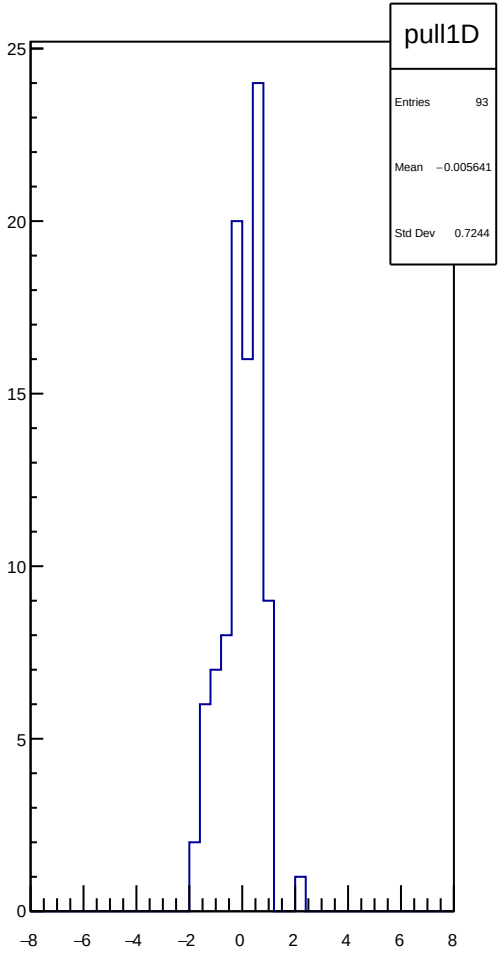

dit_asym_usr_rms vs run
χ² / ndf 599.3 / 92
p0 1086 ± 0.8025
1140
1120
1100
1080
1060
1040

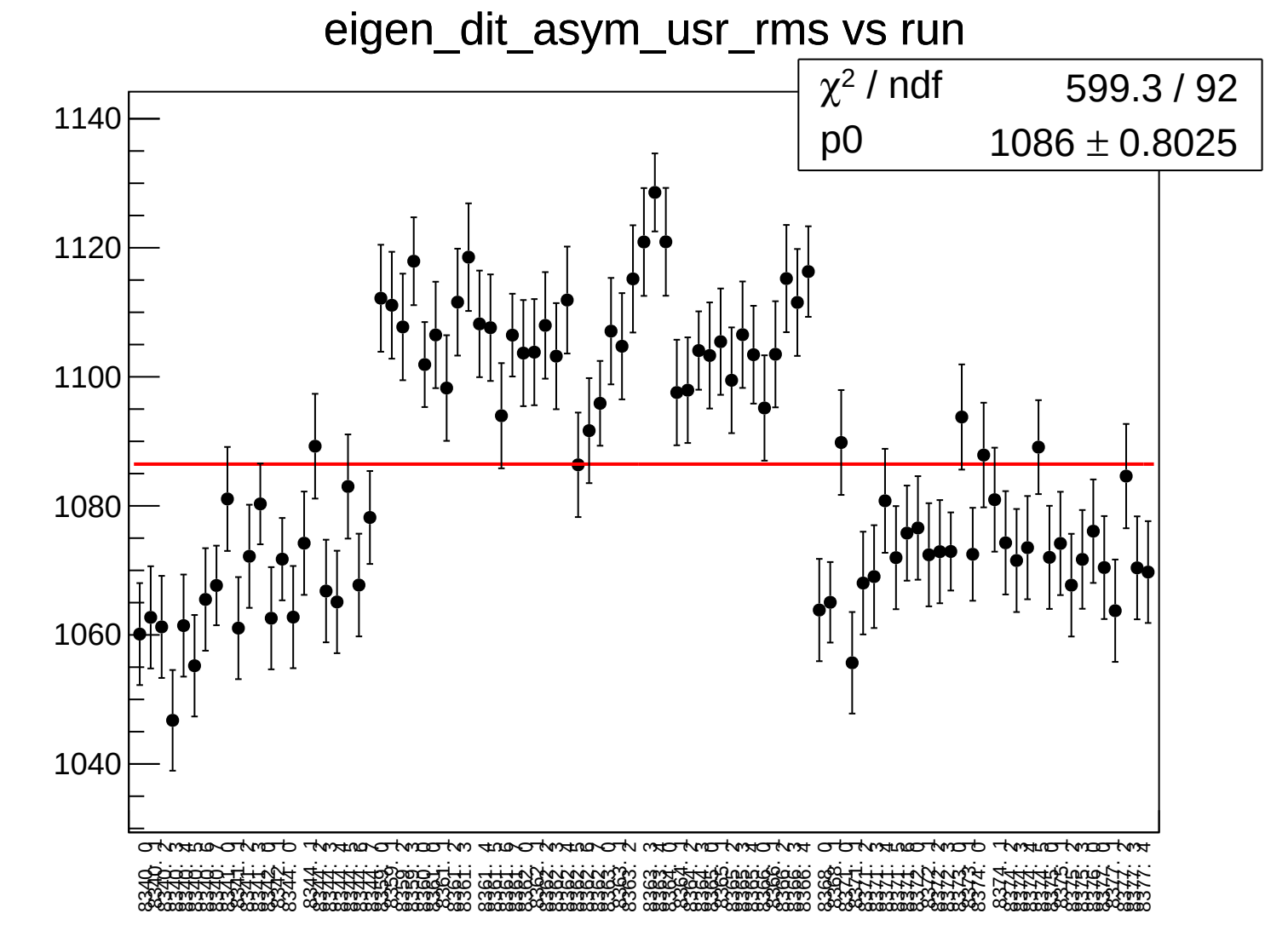

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 92
p0 −708.8 ± 2758
100
50
0
−50
−100
pull
Entries 93
Mean −263
Std Dev 0
3
2
1
0
−1
−2

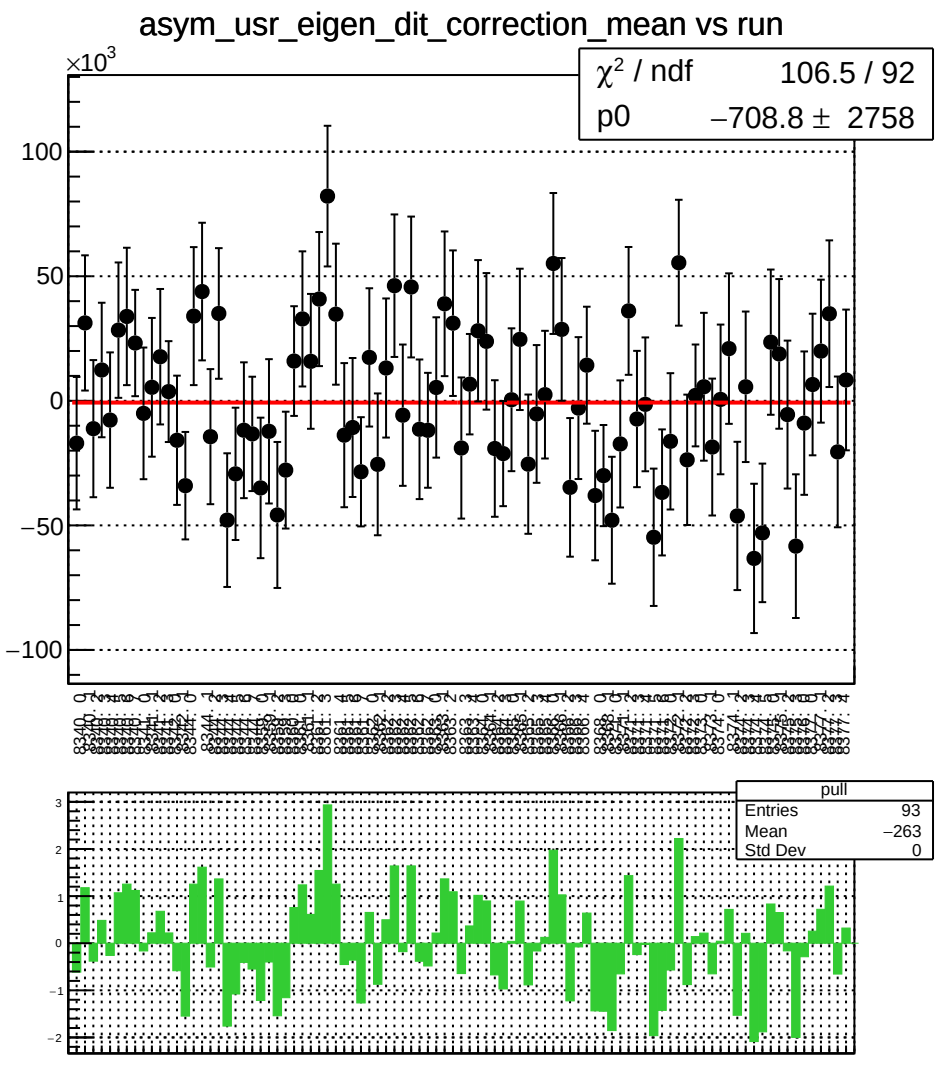

pull1D
Entries 93
Mean 0.01434
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

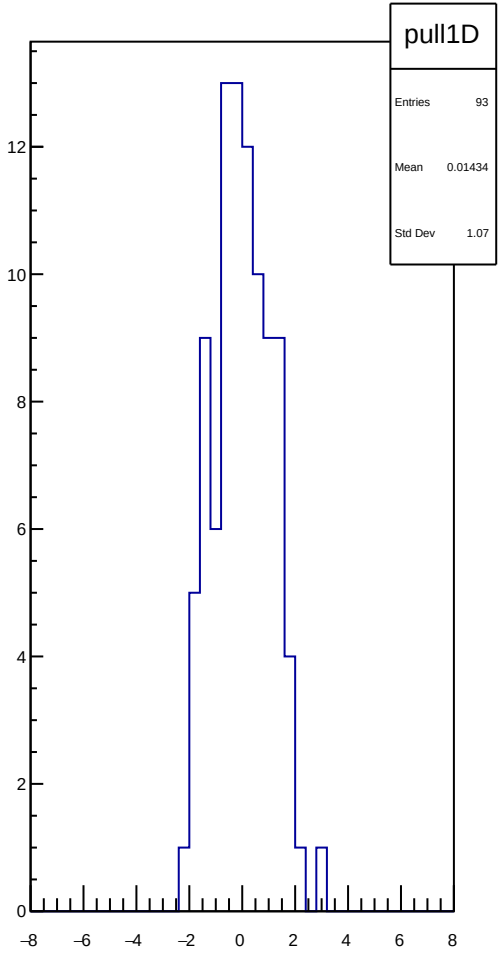

asym_usr_dit_correction_rms vs run
χ² / ndf 3695 / 92
p0 2638 ± 1.95
3000
2900
2800
2700
2600
2500
2400

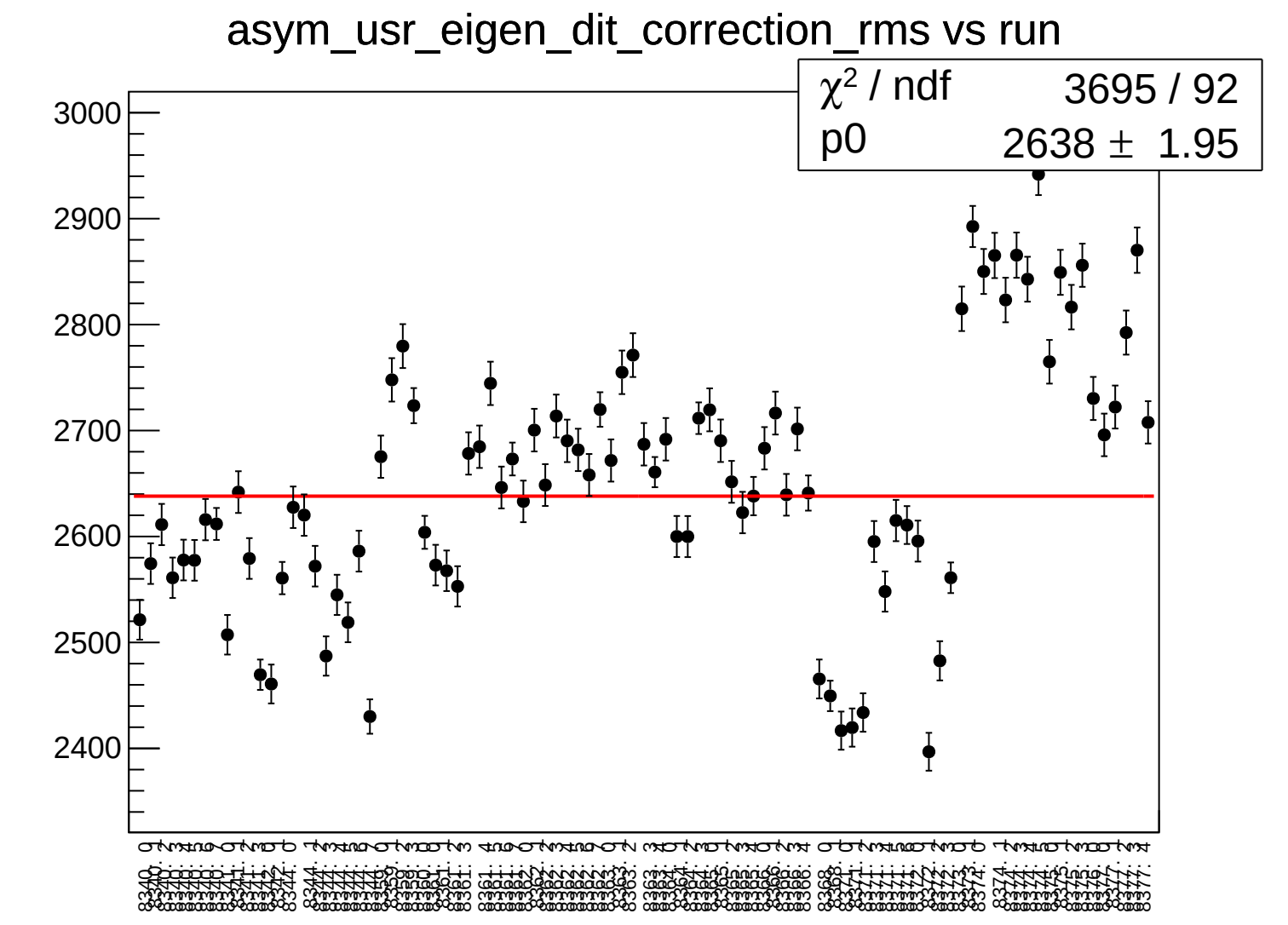

eigen_dit_asym_usr_mean vs run
χ² / ndf 48.8 / 92
p0 −2490 ± 1135
pull
Entries 93
Mean −157
Std Dev 0

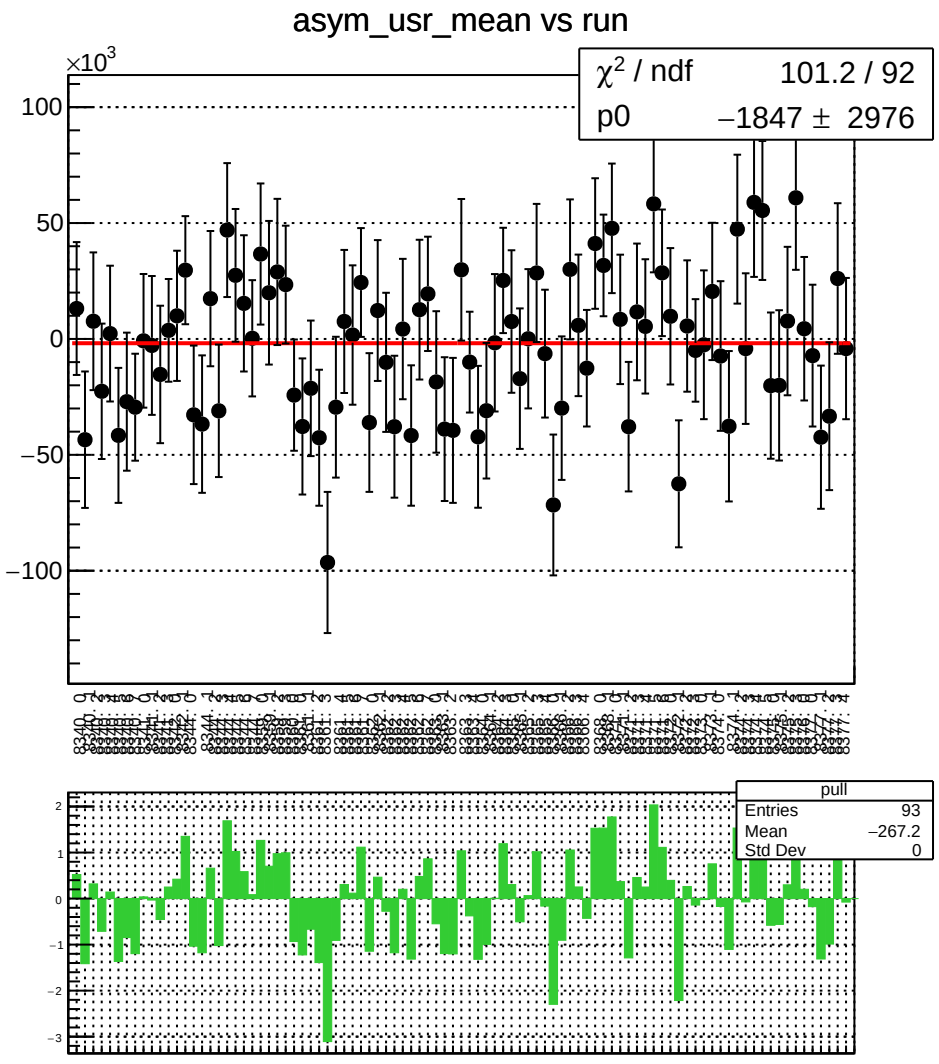

pull1D
Entries 93
Mean −0.005641
Std Dev 0.7244

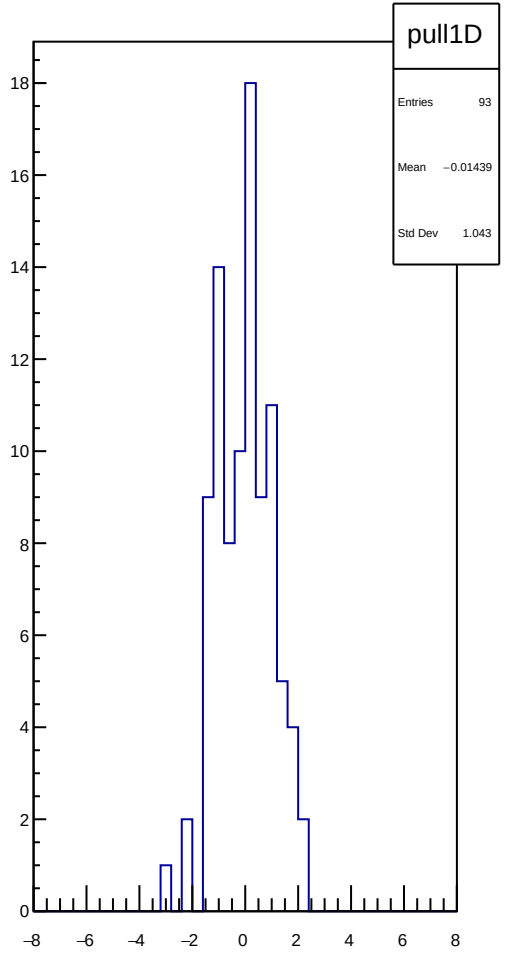

eigen_dit_asym_usr_rms vs run
χ^2 / ndf 599.3 / 92
p0 1086 ± 0.8025
1140
1120
1100
1080
1060
1040

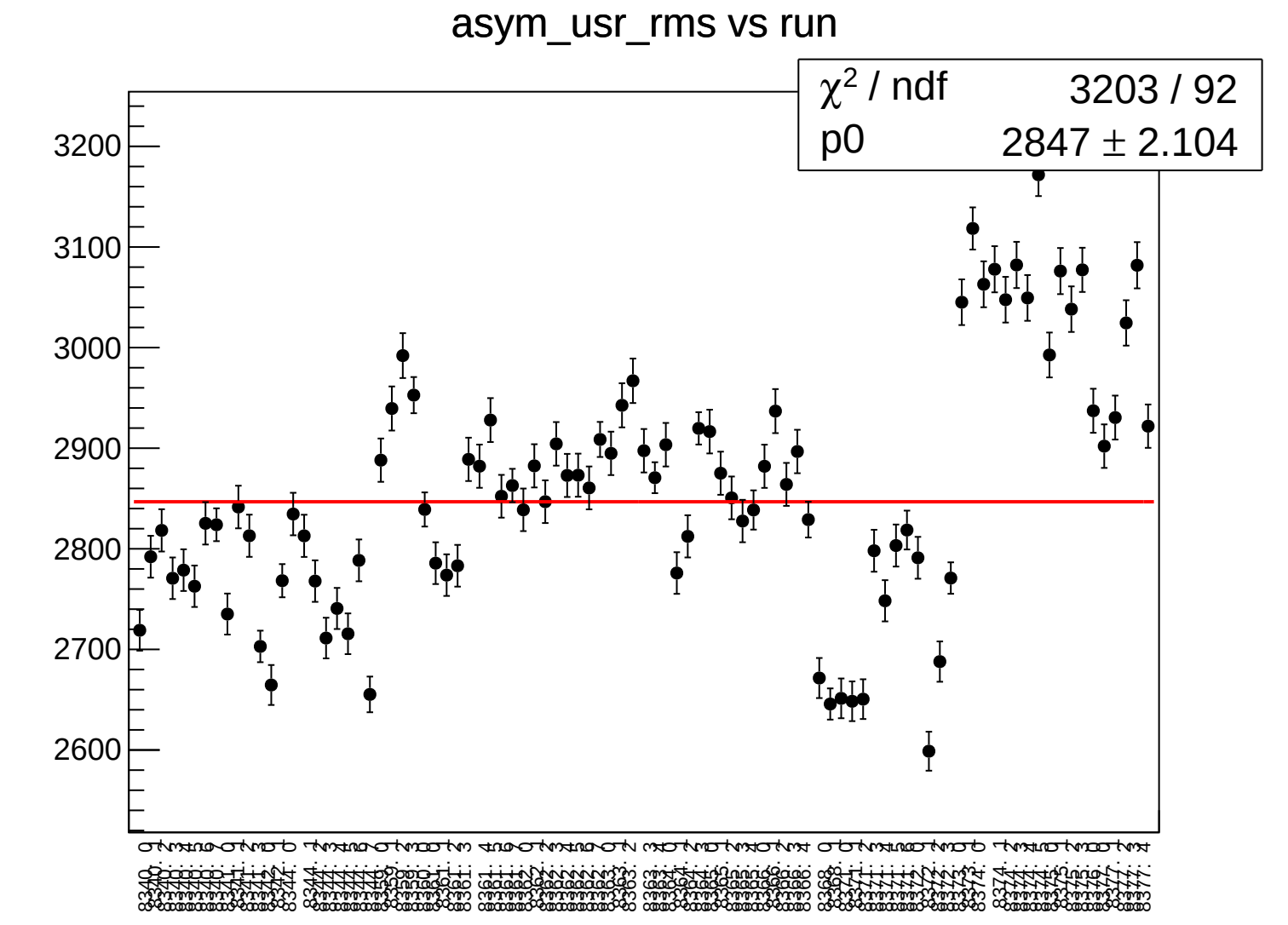

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 92
p0 −708.8 ± 2758
100
50
0
−50
−100
pull
Entries 93
Mean −263
Std Dev 0
3
2
1
0
−1
−2

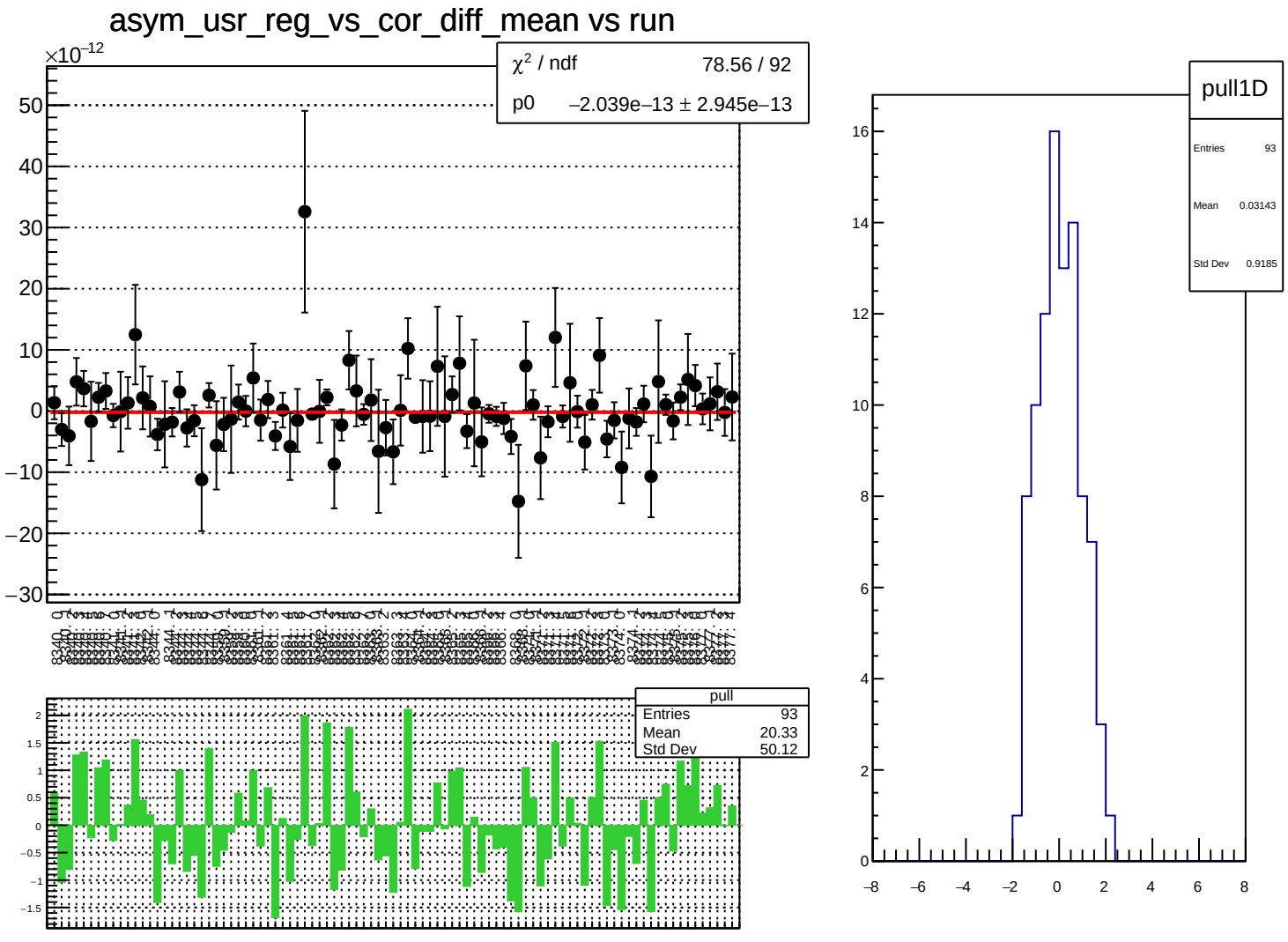

pull1D
Entries 93
Mean 0.01434
Std Dev 1.07
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

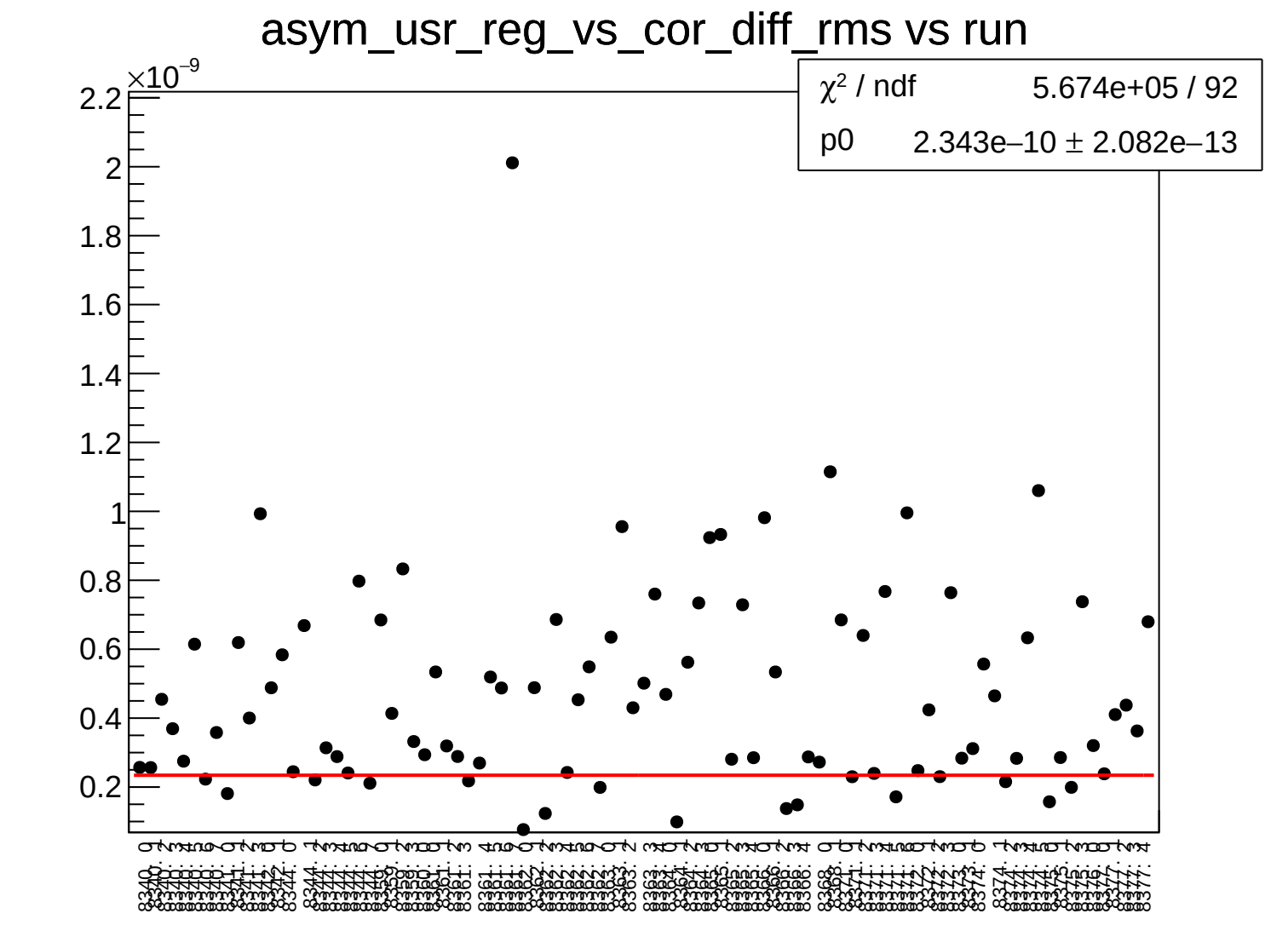

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3695 / 92
p0 2638 ± 1.95
3000
2900
2800
2700
2600
2500
2400

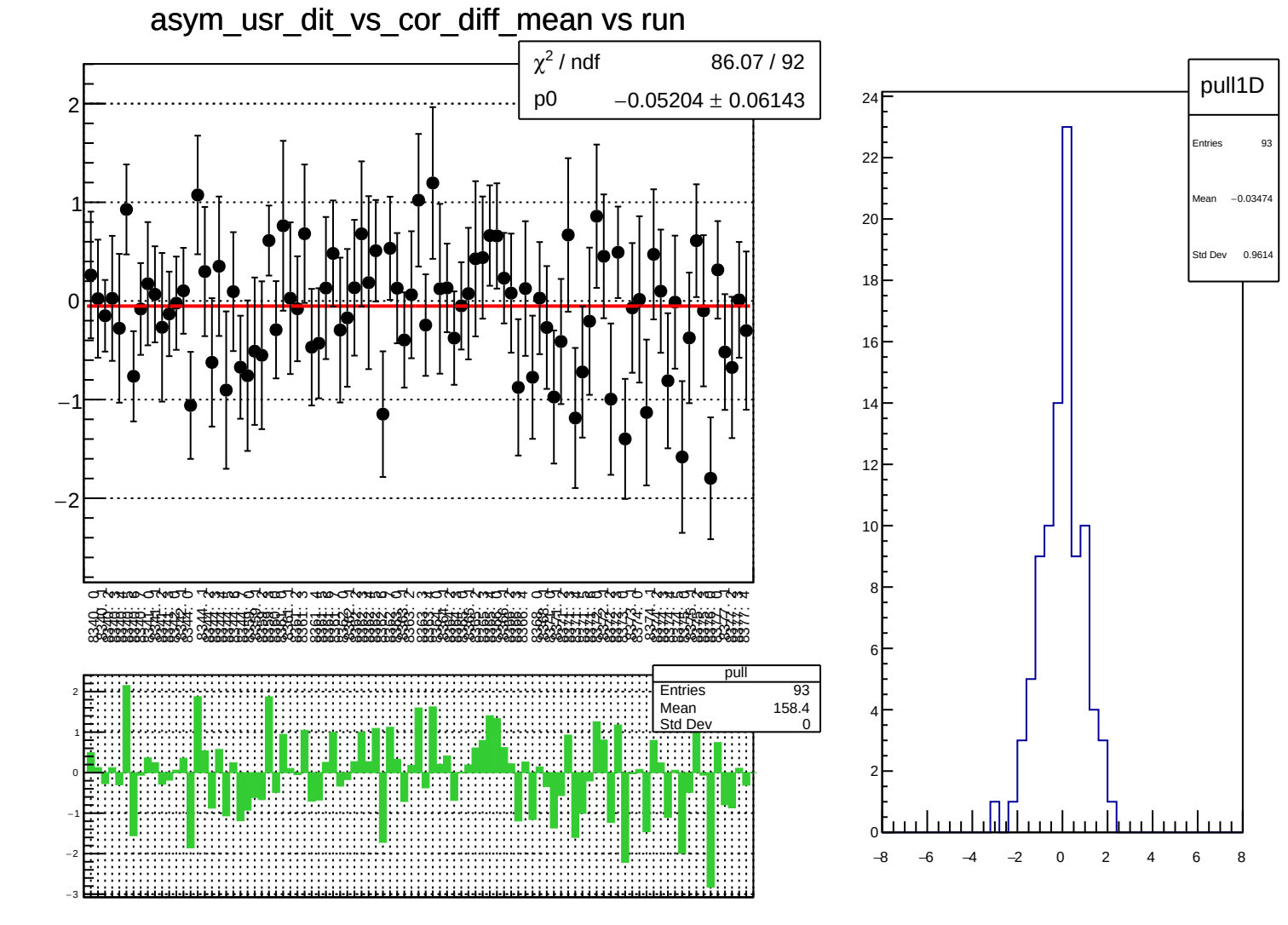

asym_usr_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −1847 ± 2976
100
50
0
−50
−100
pull
Entries 93
Mean −267.2
Std Dev 0
2
1
0
−1
−2
−3

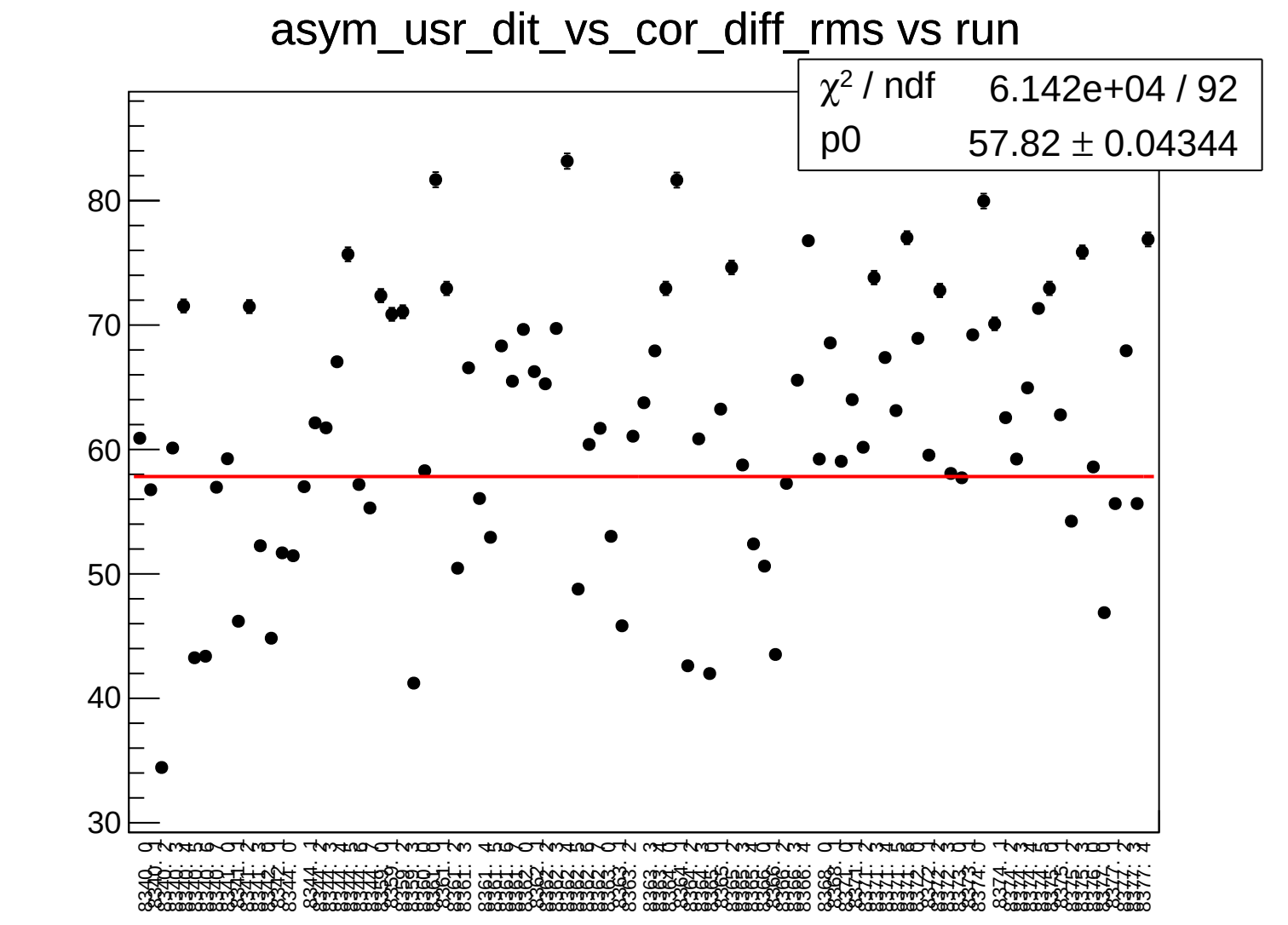

pull1D
Entries 93
Mean −0.01439
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

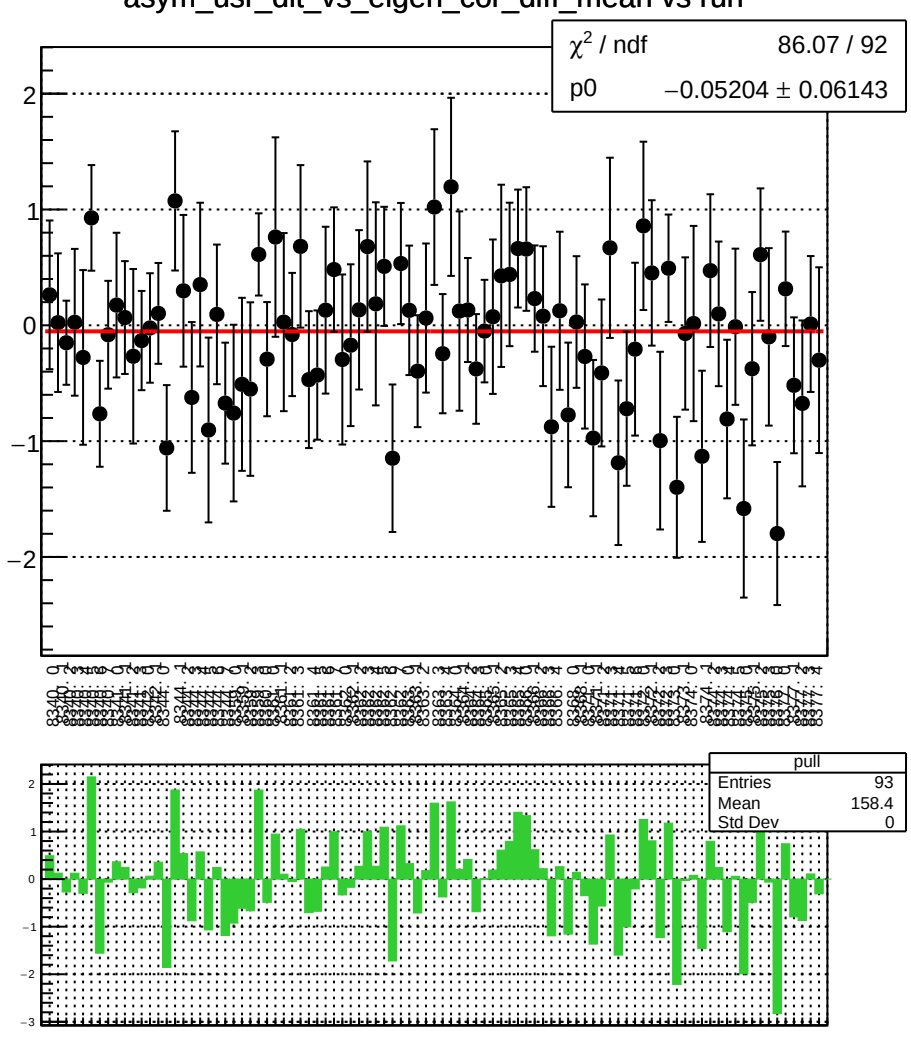

asym_usr_rms vs run
χ² / ndf 3203 / 92
p0 2847 ± 2.104
3200
3100
3000
2900
2800
2700
2600

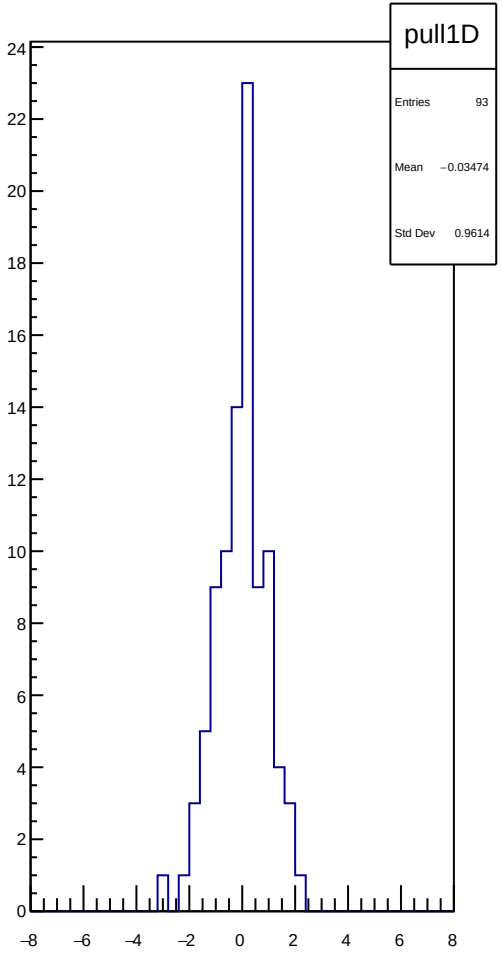

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.56 / 92
p0 −2.039e−13 ± 2.945e−13
pull
Entries 93
Mean 20.33
Std Dev 50.12
pull1D
Entries 93
Mean 0.03143
Std Dev 0.9185

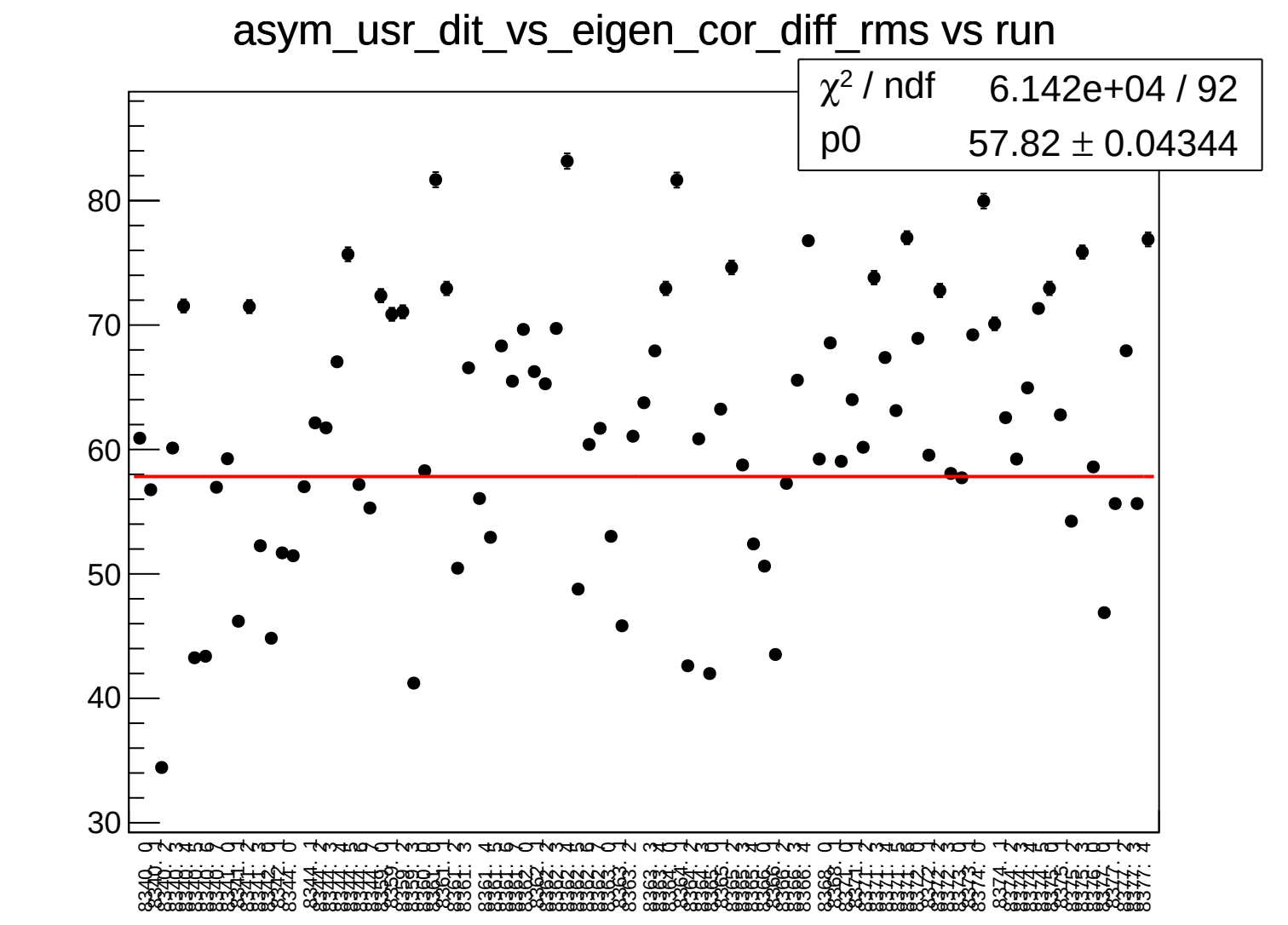

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.674e+05 / 92
p0 2.343e−10 ± 2.082e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

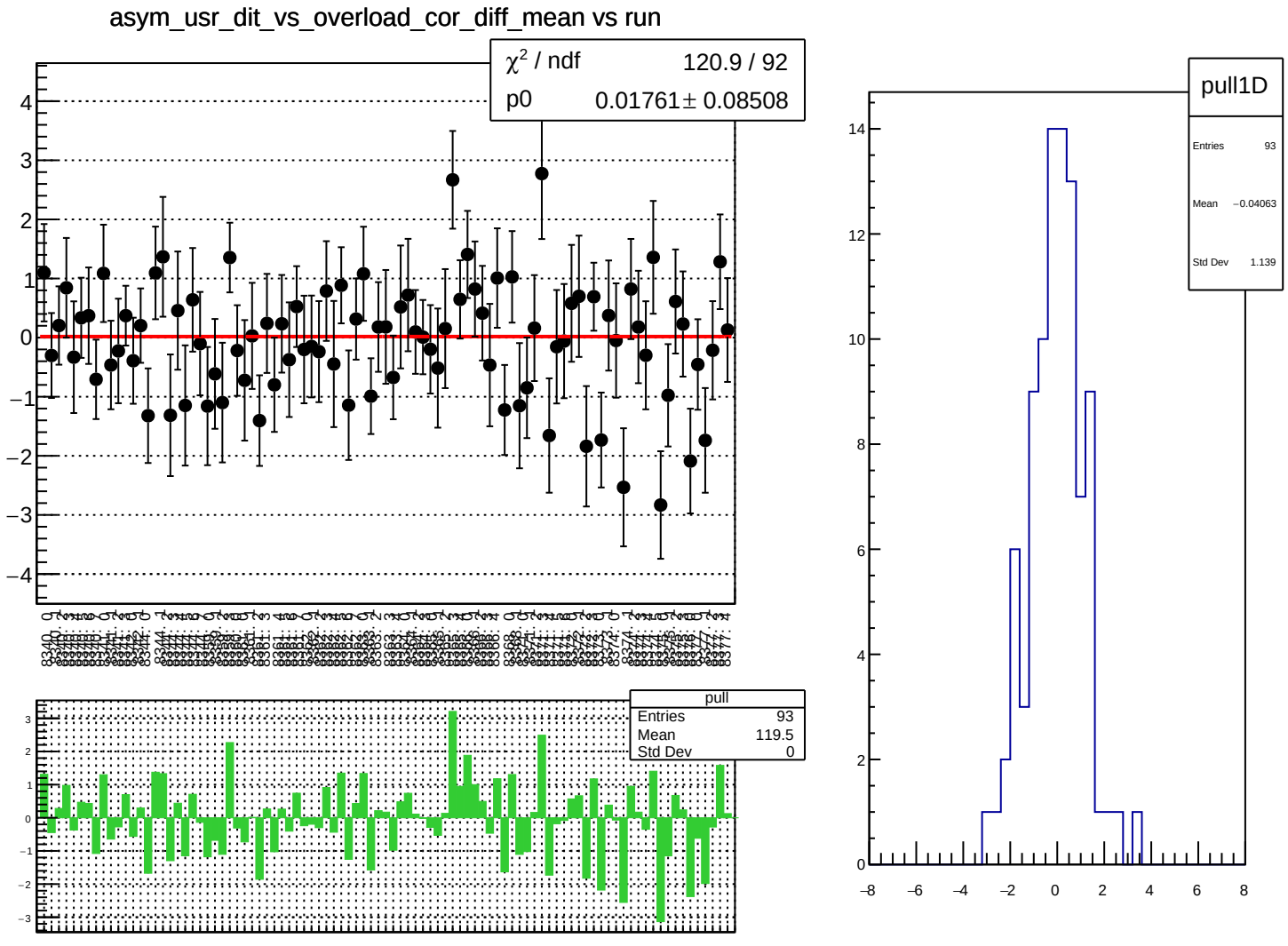

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 92
p0 −0.05204 ± 0.06143
pull
Entries 93
Mean 158.4
Std Dev 0
pull1D
Entries 93
Mean −0.03474
Std Dev 0.9614

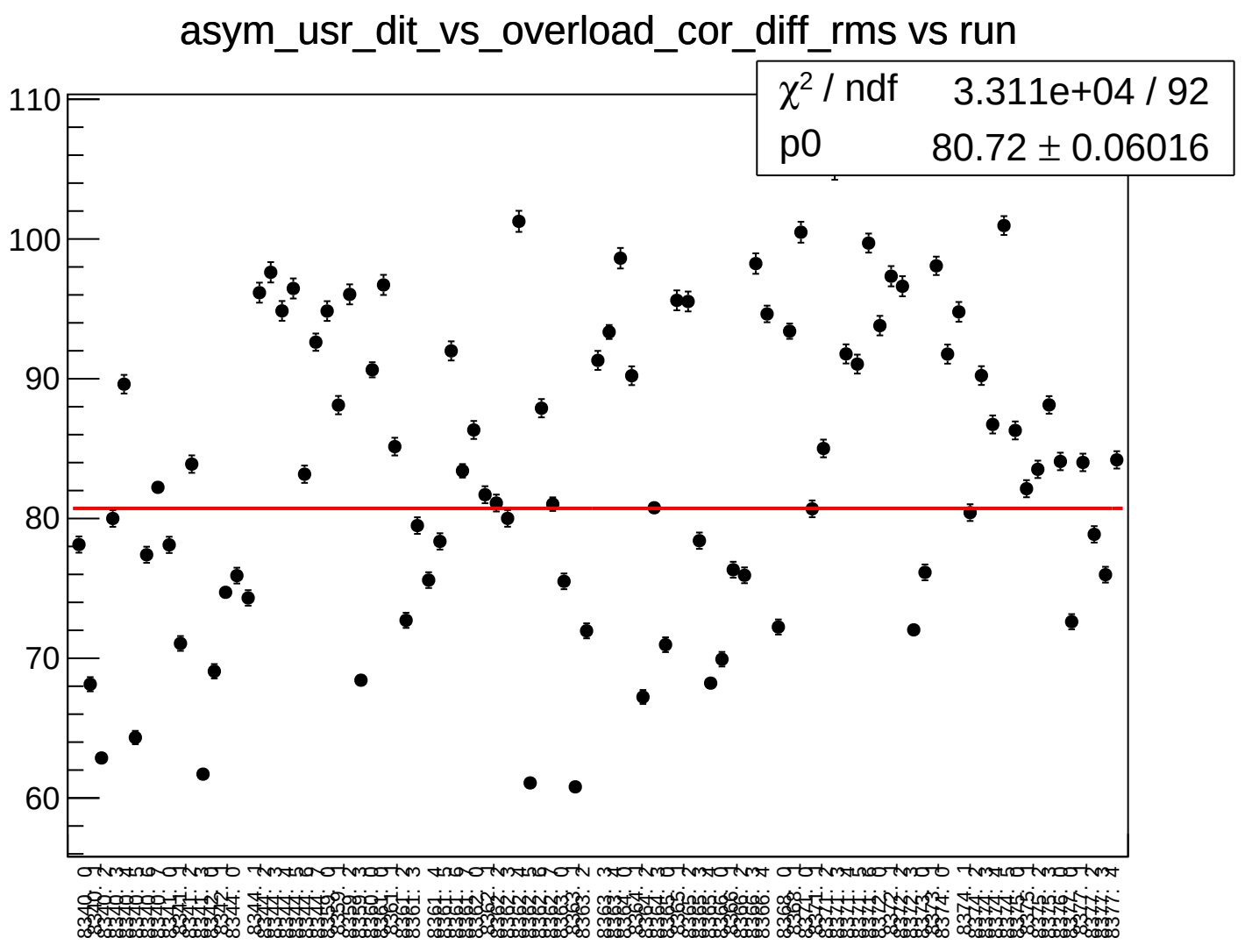

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 6.142e+04 / 92
p0 57.82 ± 0.04344
80
70
60
50
40
30

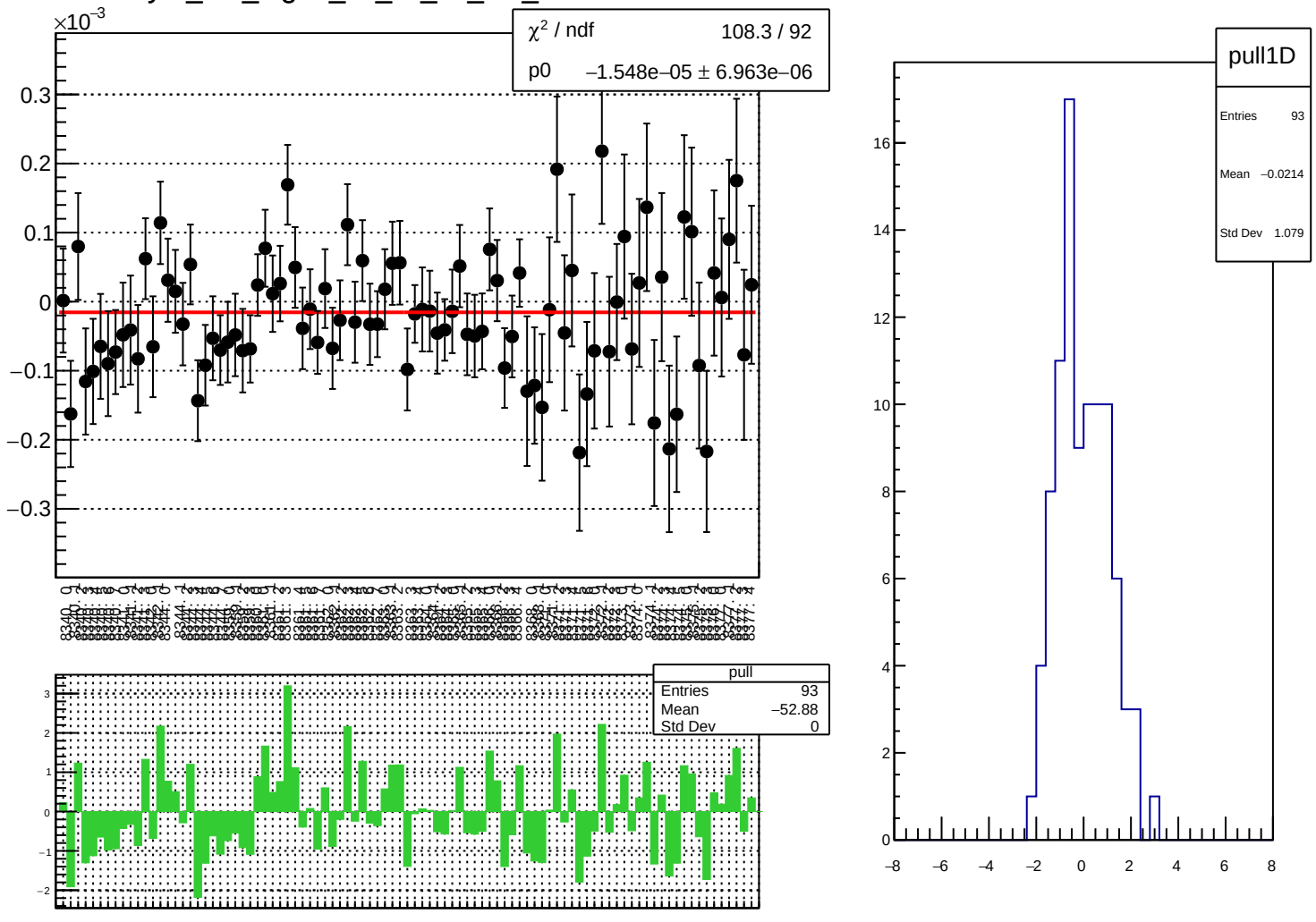

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 92
p0 −0.05204 ± 0.06143
pull
Entries 93
Mean 158.4
Std Dev 0

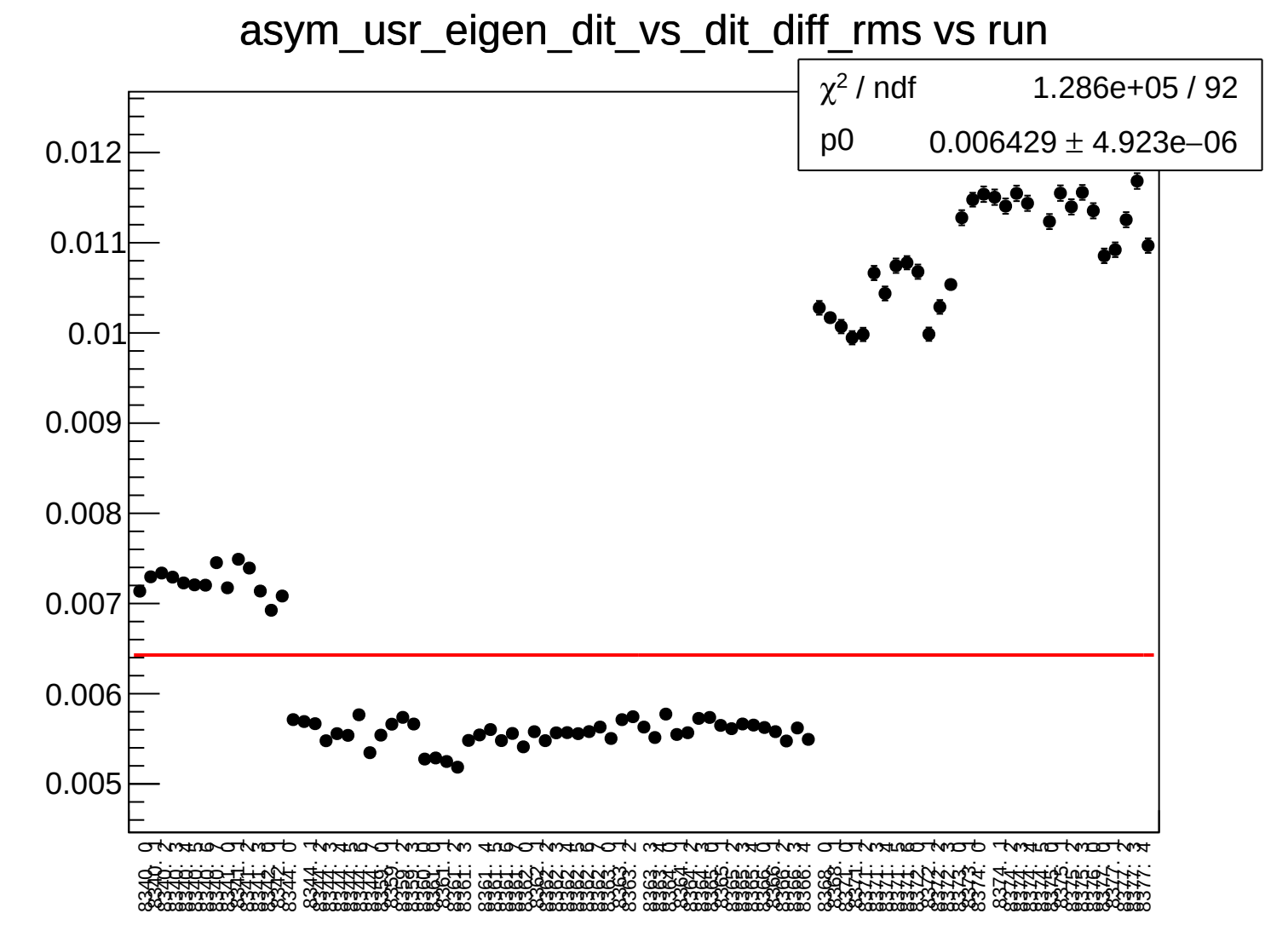

pull1D
Entries 93
Mean −0.03474
Std Dev 0.9614

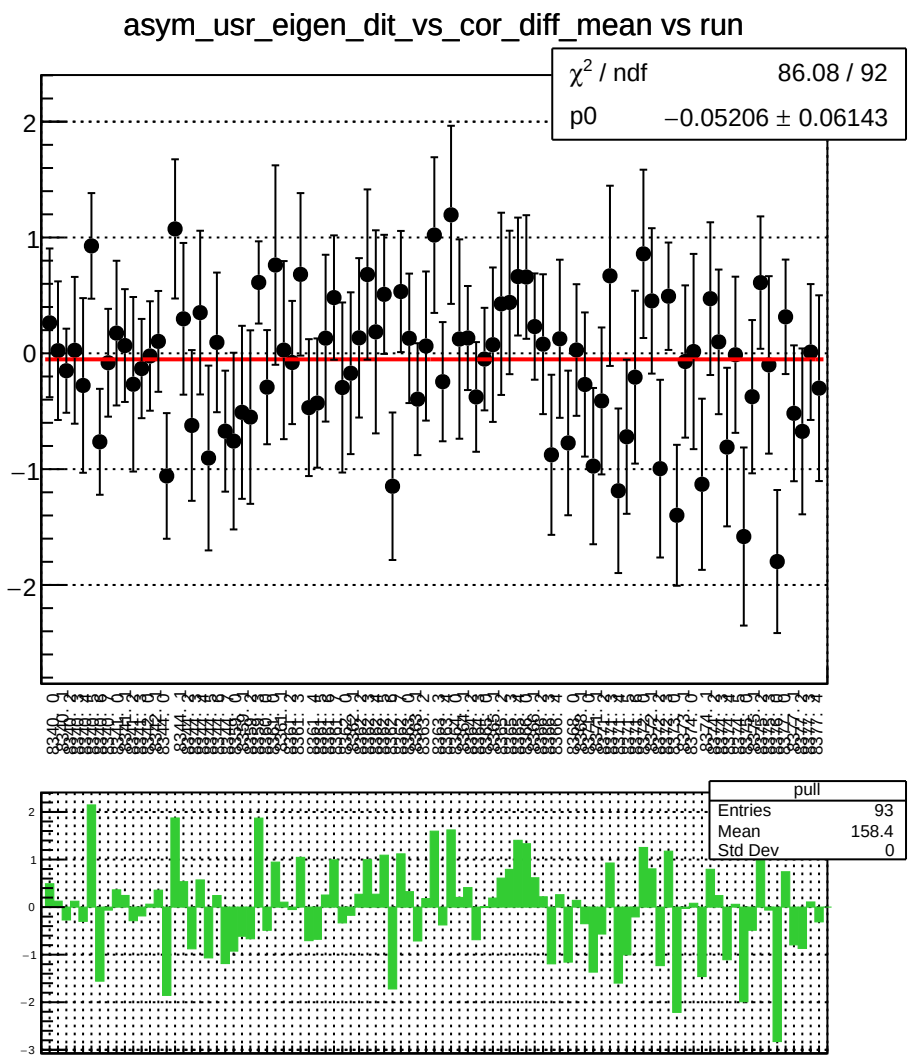

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.142e+04 / 92
p0 57.82 ± 0.04344
80
70
60
50
40
30

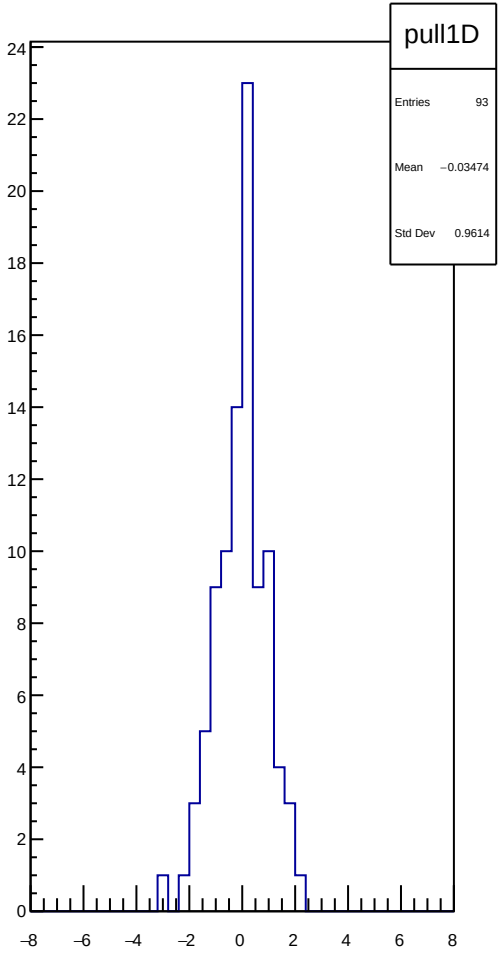

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 120.9 / 92
p0 0.01761 ± 0.08508
pull
Entries 93
Mean 119.5
Std Dev 0
pull1D
Entries 93
Mean −0.04063
Std Dev 1.139

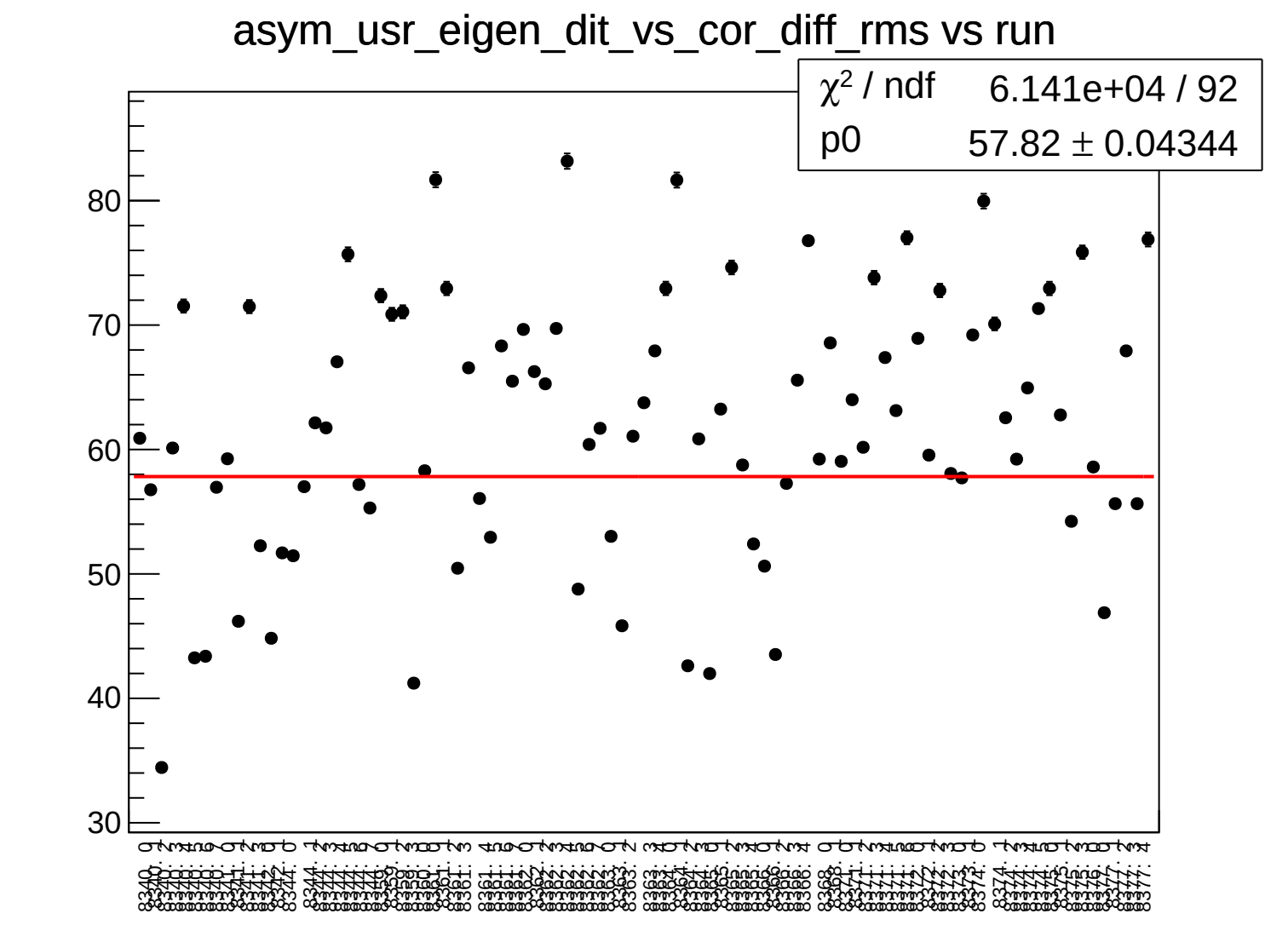

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.311e+04 / 92
p0 80.72 ± 0.06016
110
100
90
80
70
60

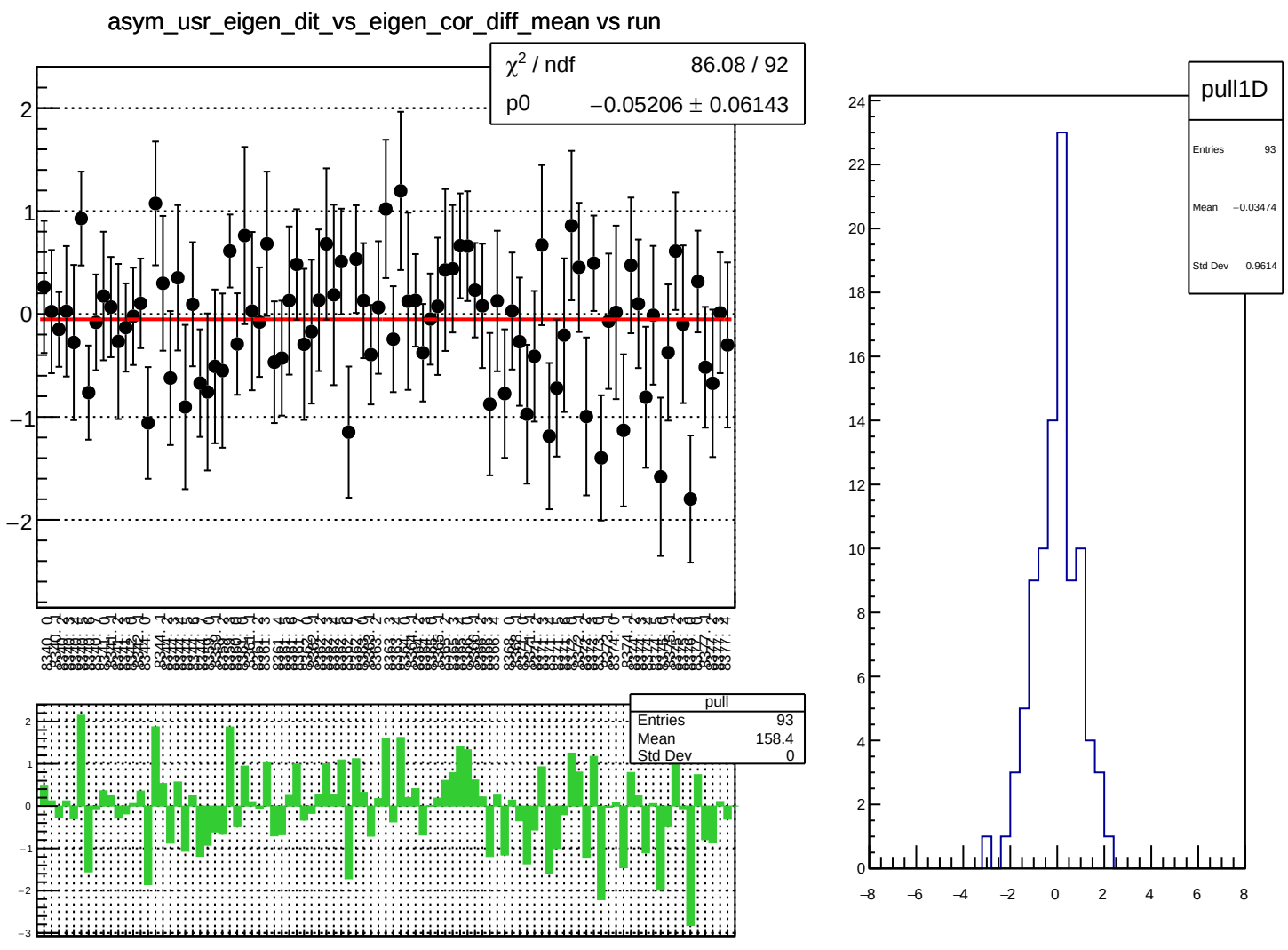

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.3 / 92
p0 −1.548e−05 ± 6.963e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean −52.88
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0214
Std Dev 1.079
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

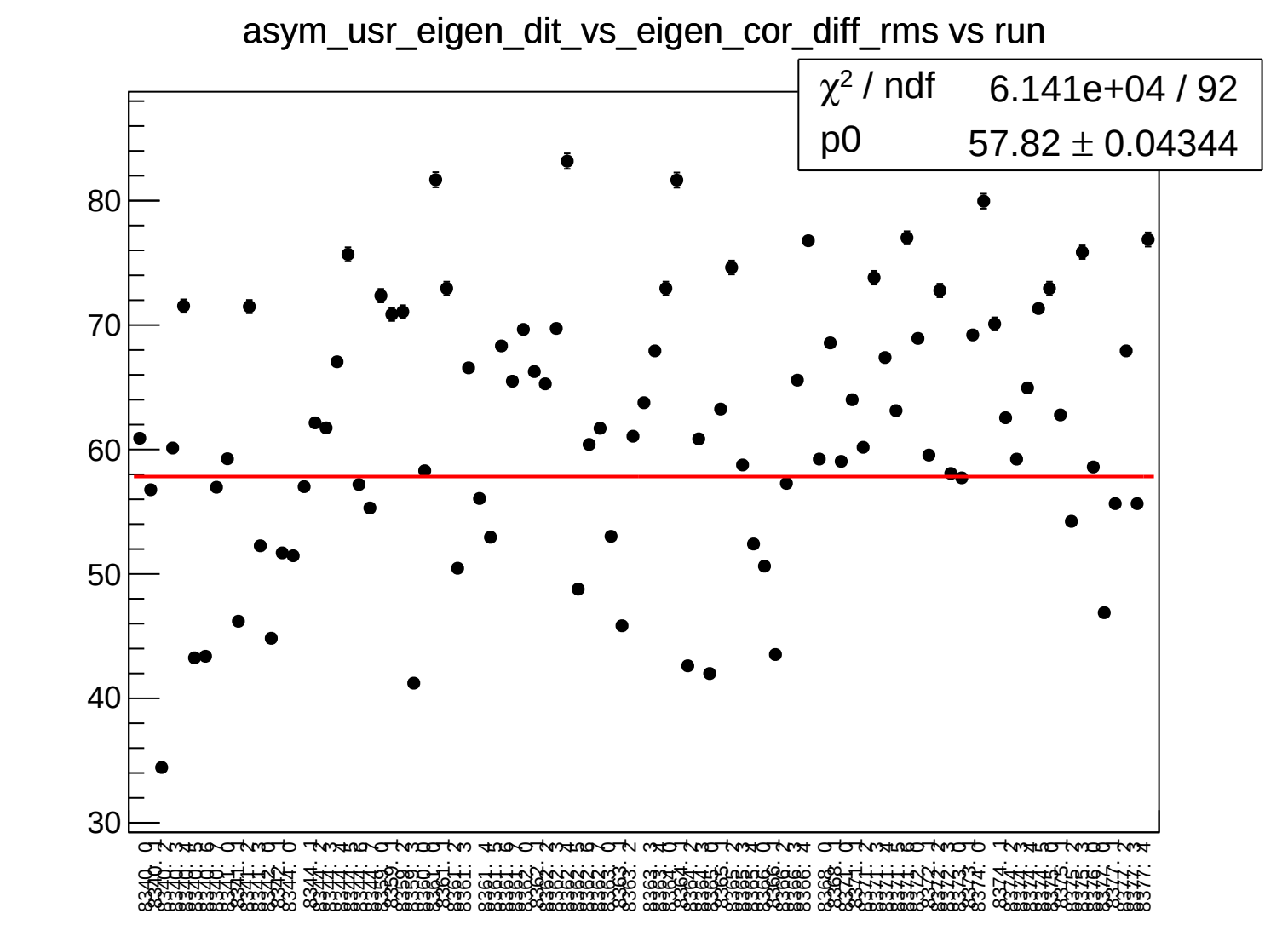

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.286e+05 / 92
p0 0.006429 ± 4.923e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

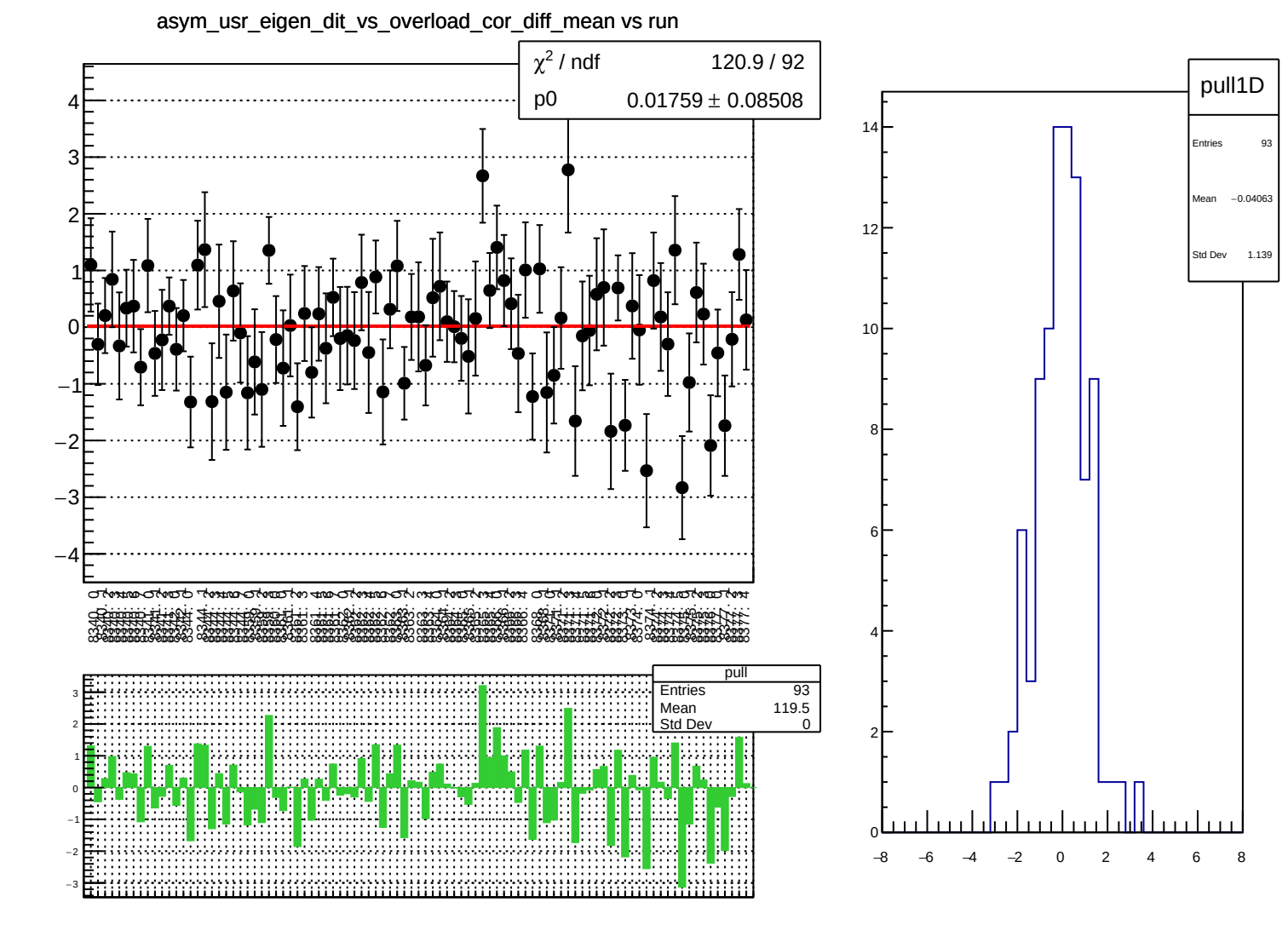

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.08 / 92
p0 −0.05206 ± 0.06143
pull
Entries 93
Mean 158.4
Std Dev 0

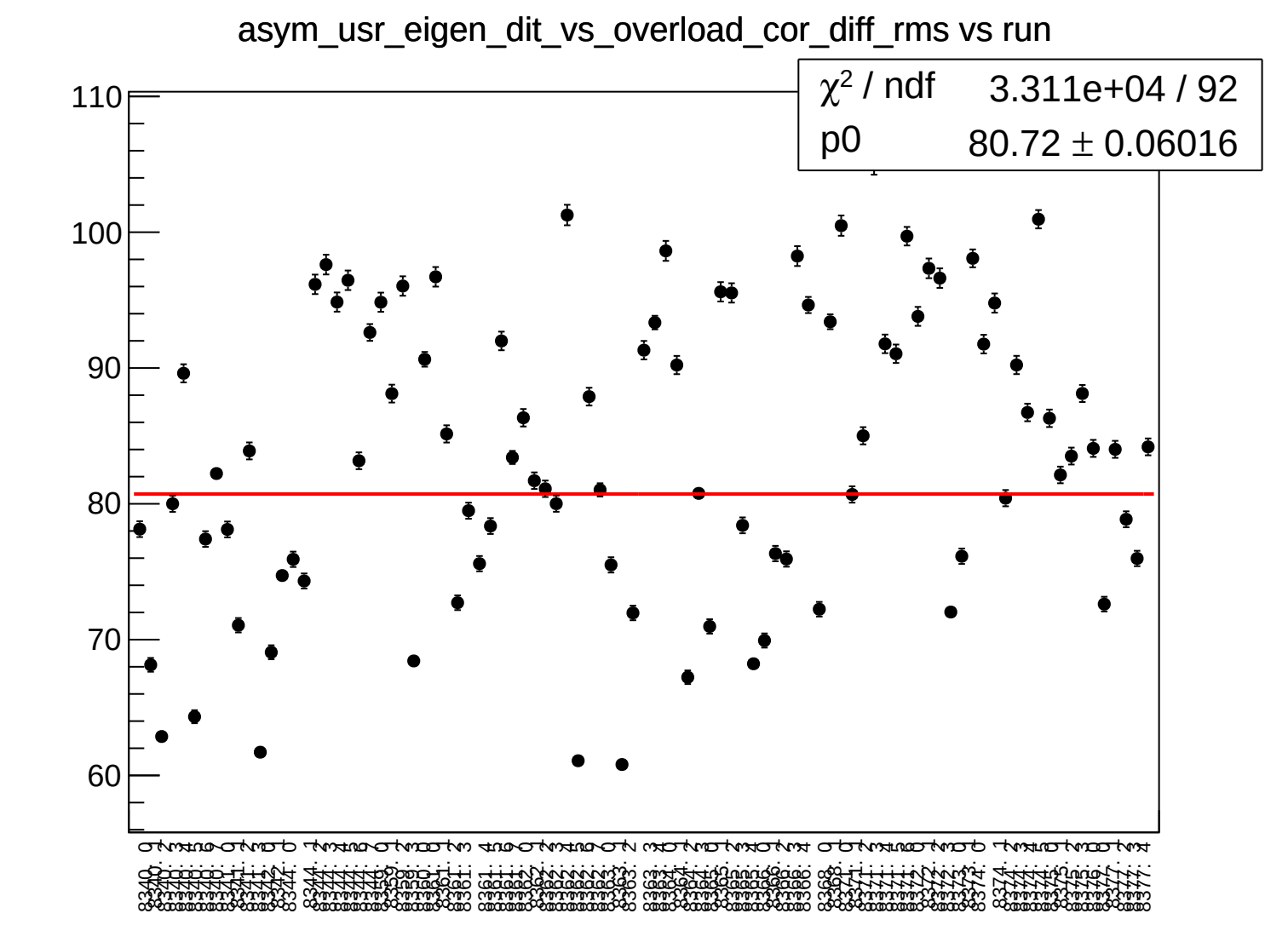

pull1D
Entries 93
Mean −0.03474
Std Dev 0.9614

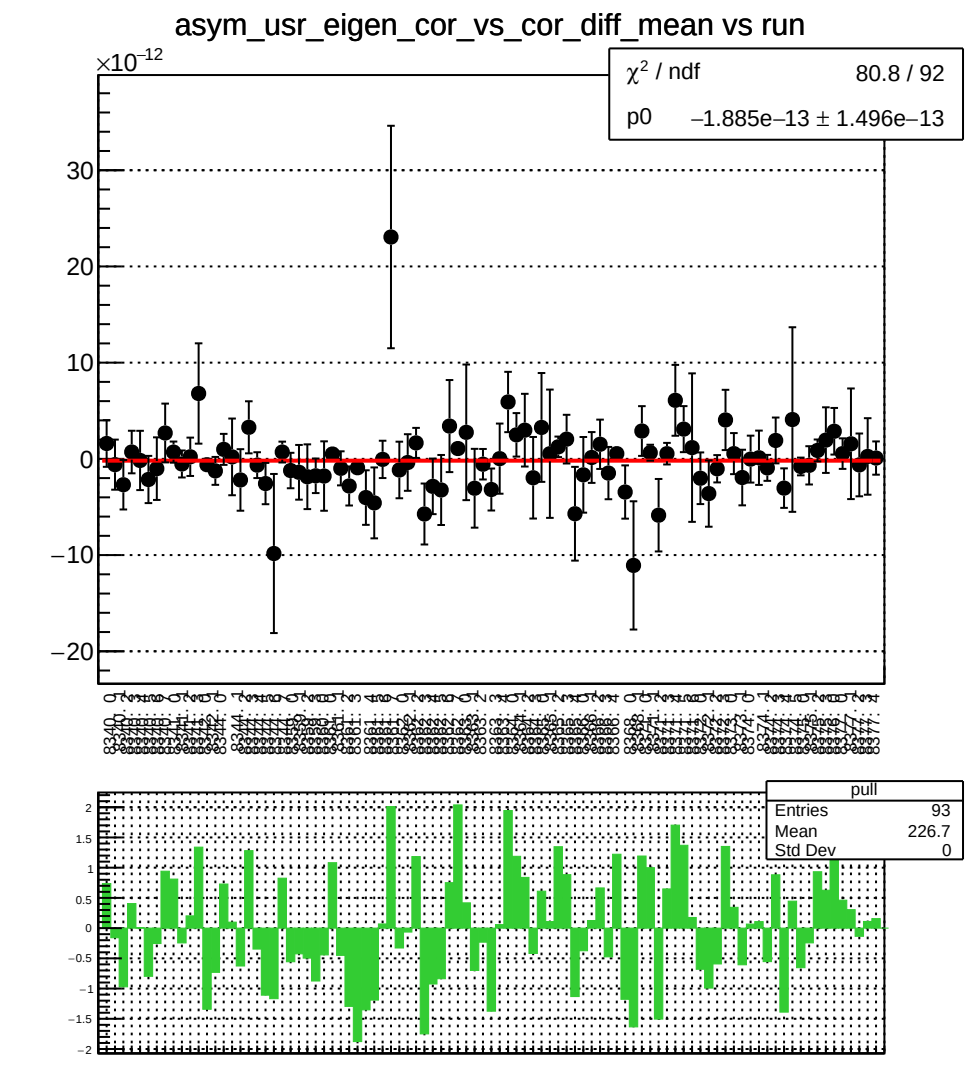

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 92
p0 57.82 ± 0.04344
80
70
60
50
40
30

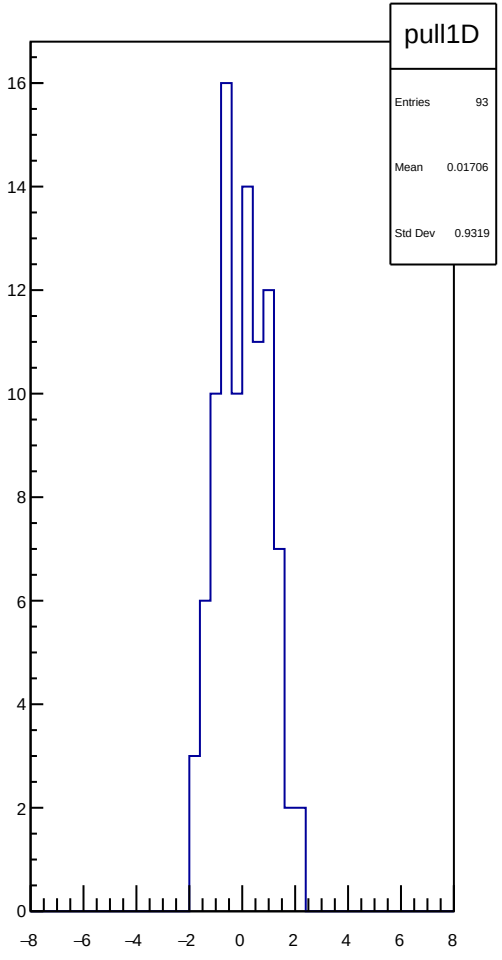

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.08 / 92
p0 −0.05206 ± 0.06143
pull
Entries 93
Mean 158.4
Std Dev 0
pull1D
Entries 93
Mean −0.03474
Std Dev 0.9614

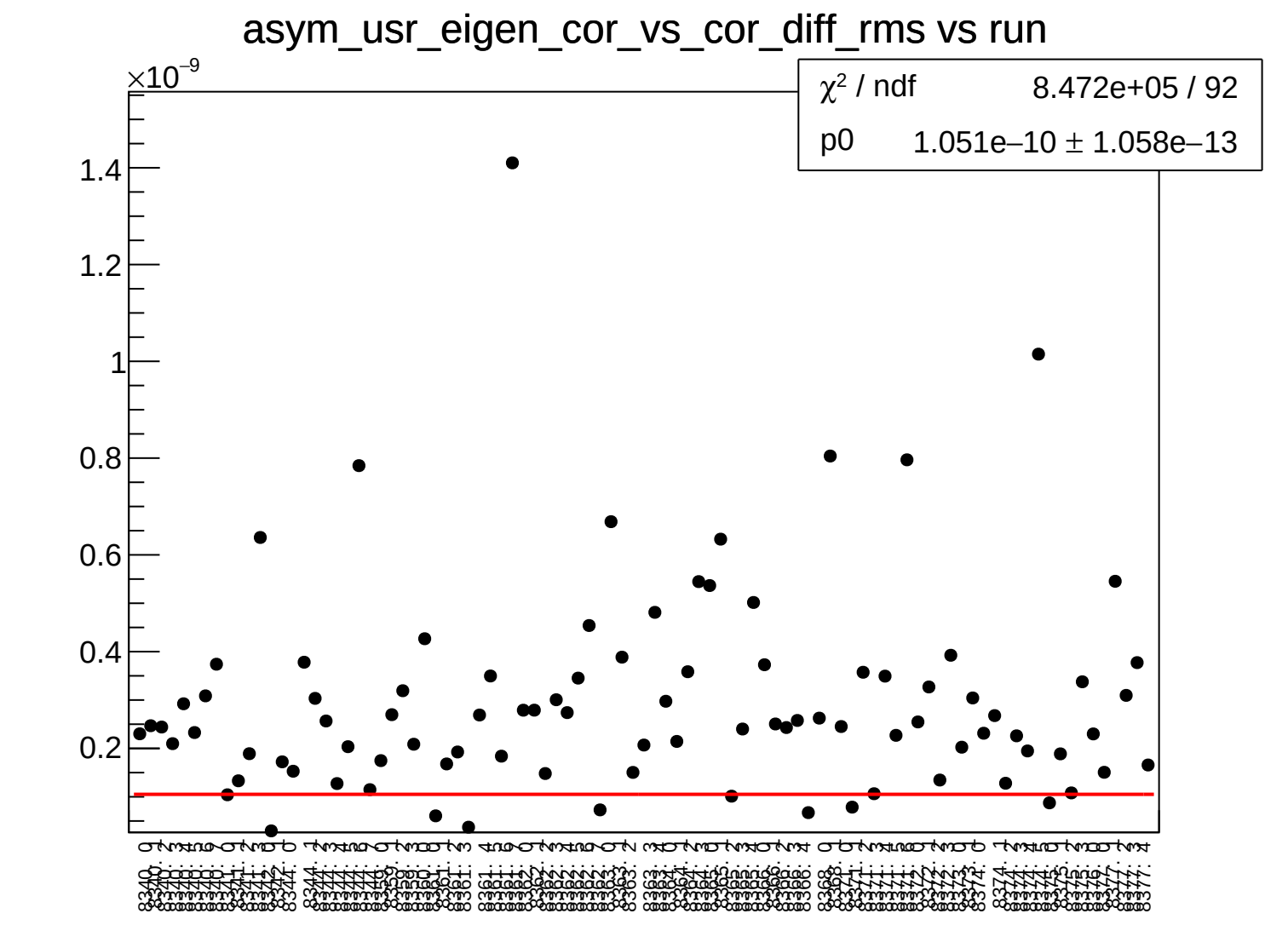

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.141e+04 / 92
p0 57.82 ± 0.04344
80
70
60
50
40
30

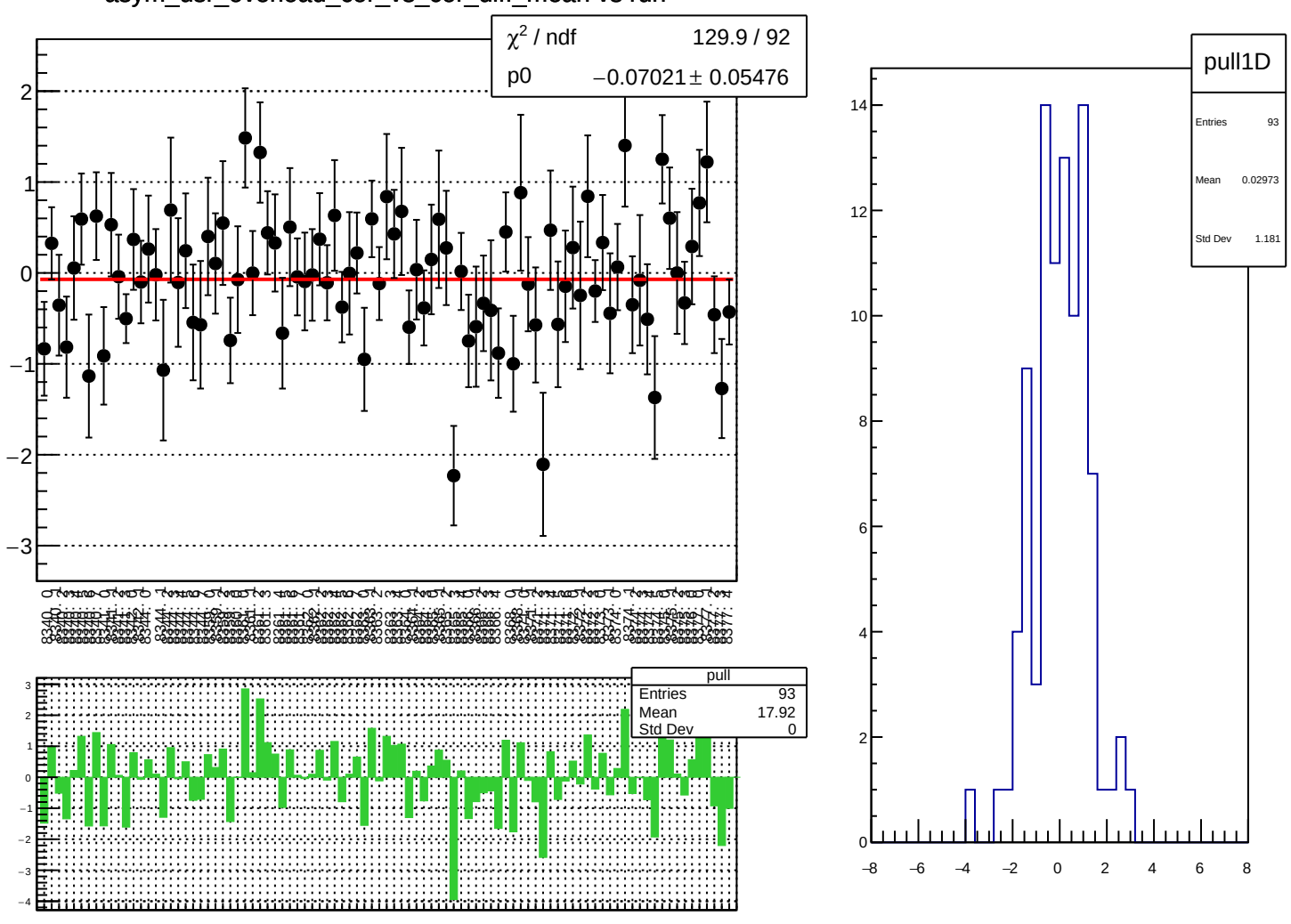

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 120.9 / 92
p0 0.01759 ± 0.08508
pull
Entries 93
Mean 119.5
Std Dev 0
pull1D
Entries 93
Mean −0.04063
Std Dev 1.139

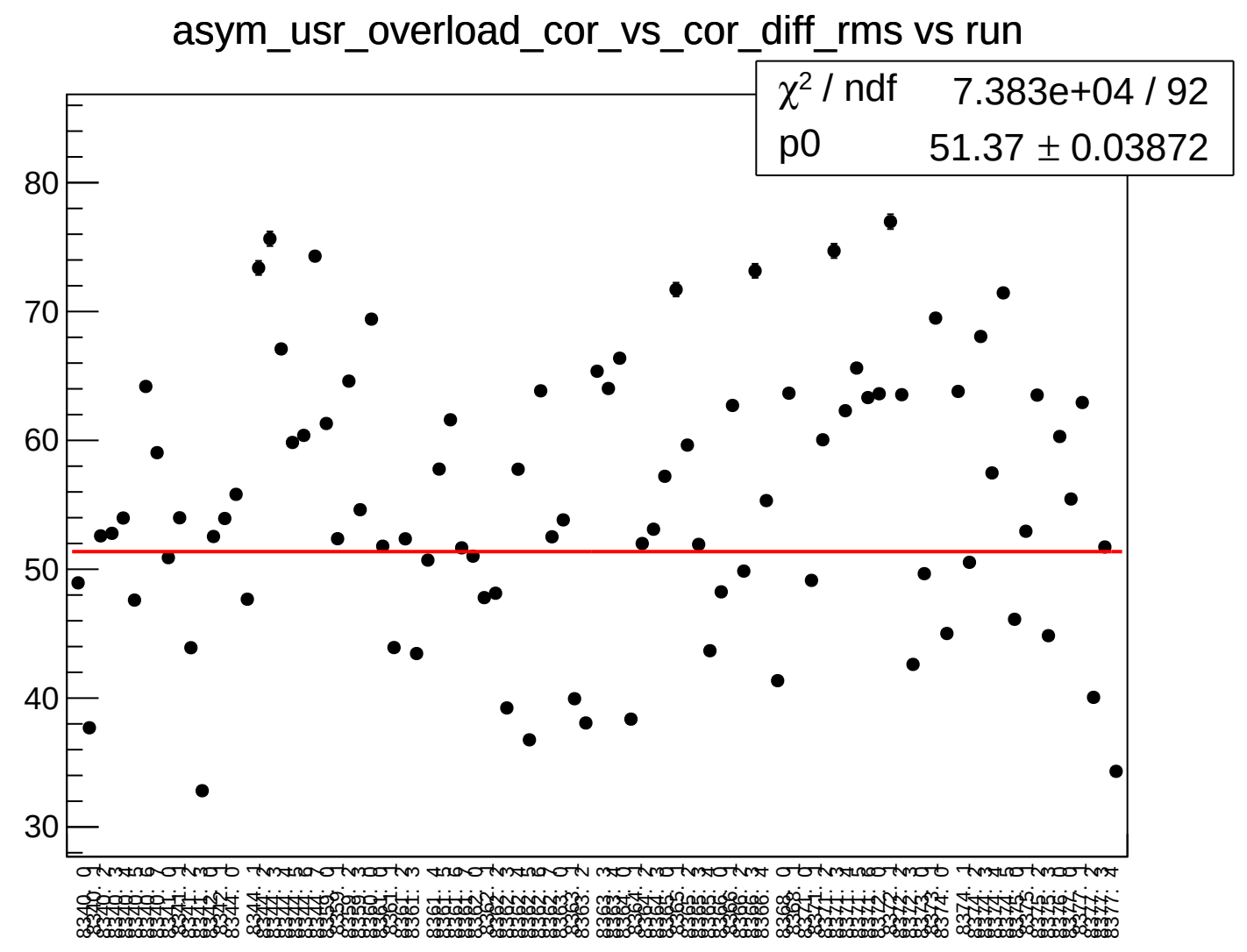

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.311e+04 / 92
p0 80.72 ± 0.06016
110
100
90
80
70
60

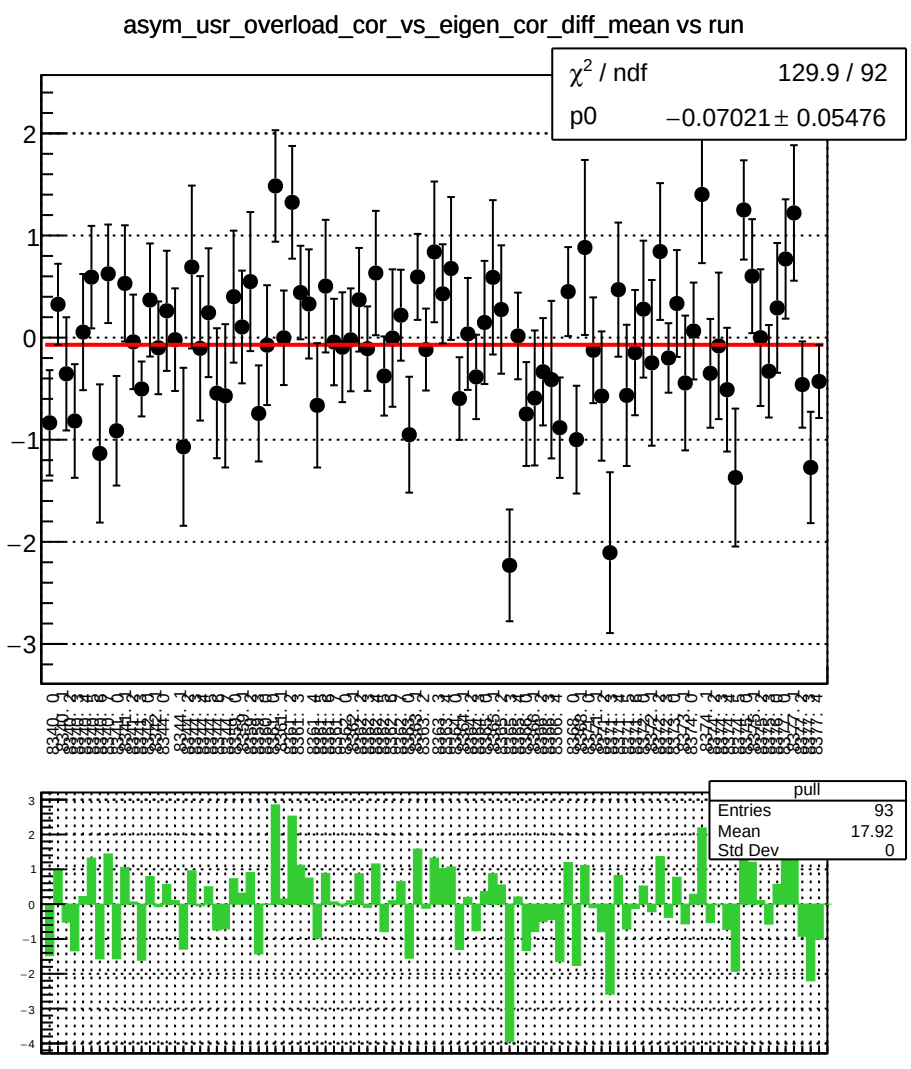

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.8 / 92
p0 −1.885e−13 ± 1.496e−13
30
20
10
0
−10
−20
pull
Entries 93
Mean 226.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

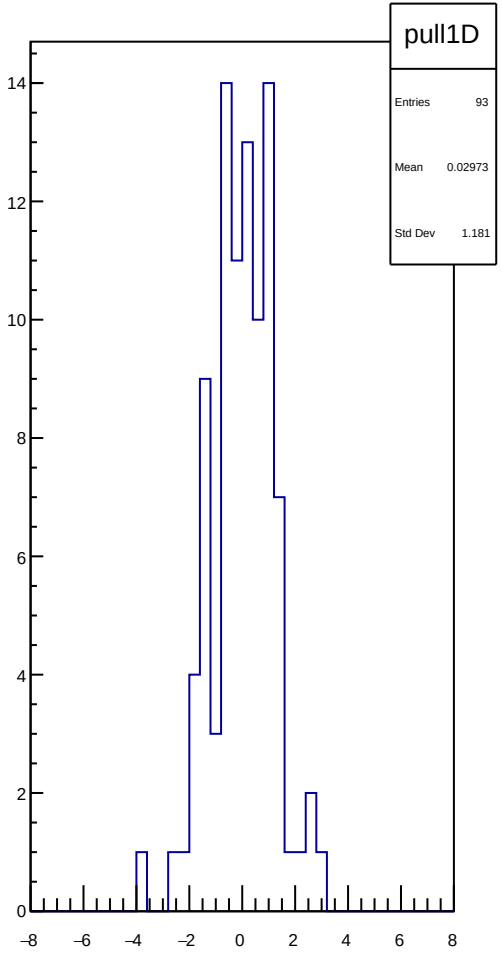

pull1D
Entries 93
Mean 0.01706
Std Dev 0.9319
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

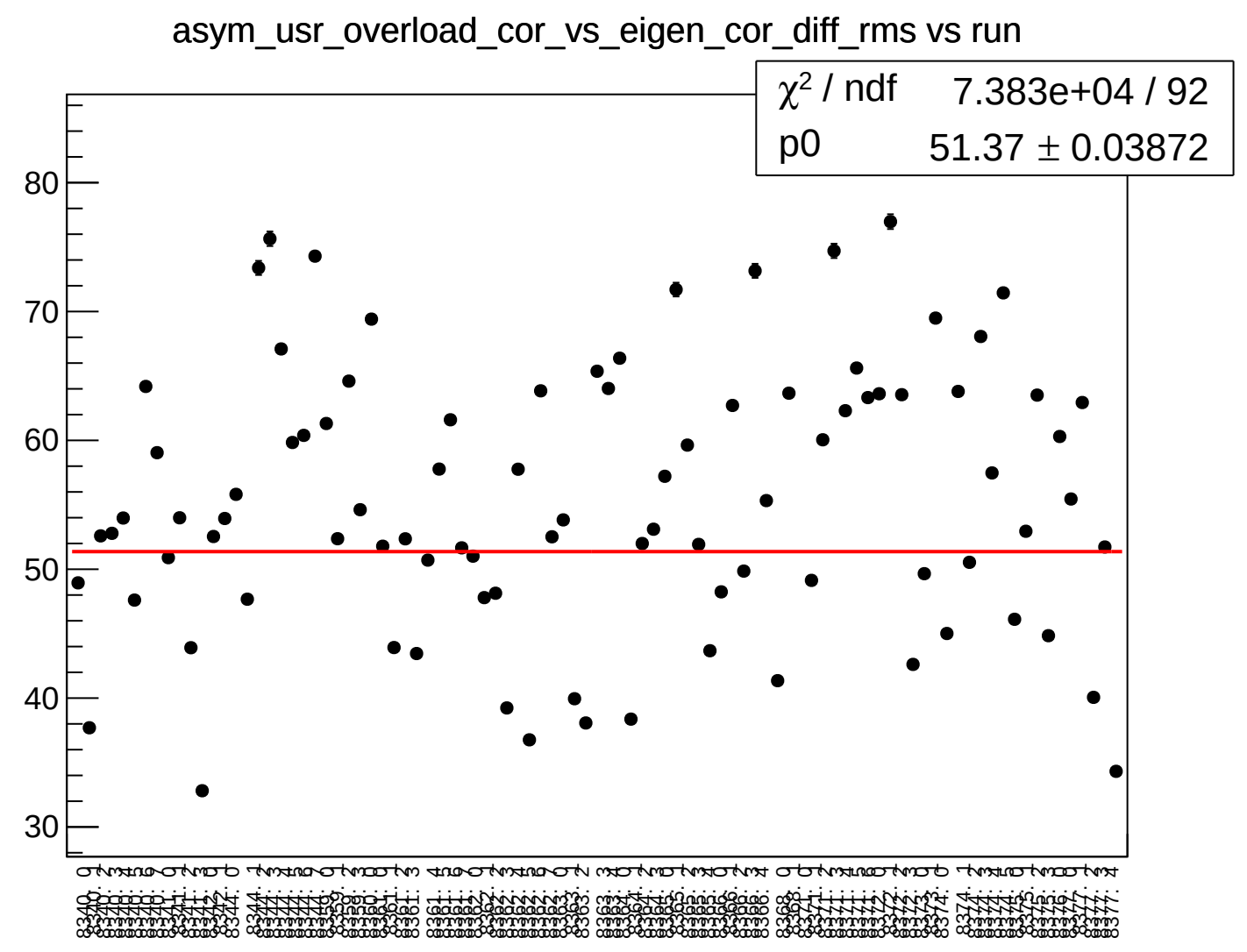

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.472e+05 / 92
p0 1.051e−10 ± 1.058e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

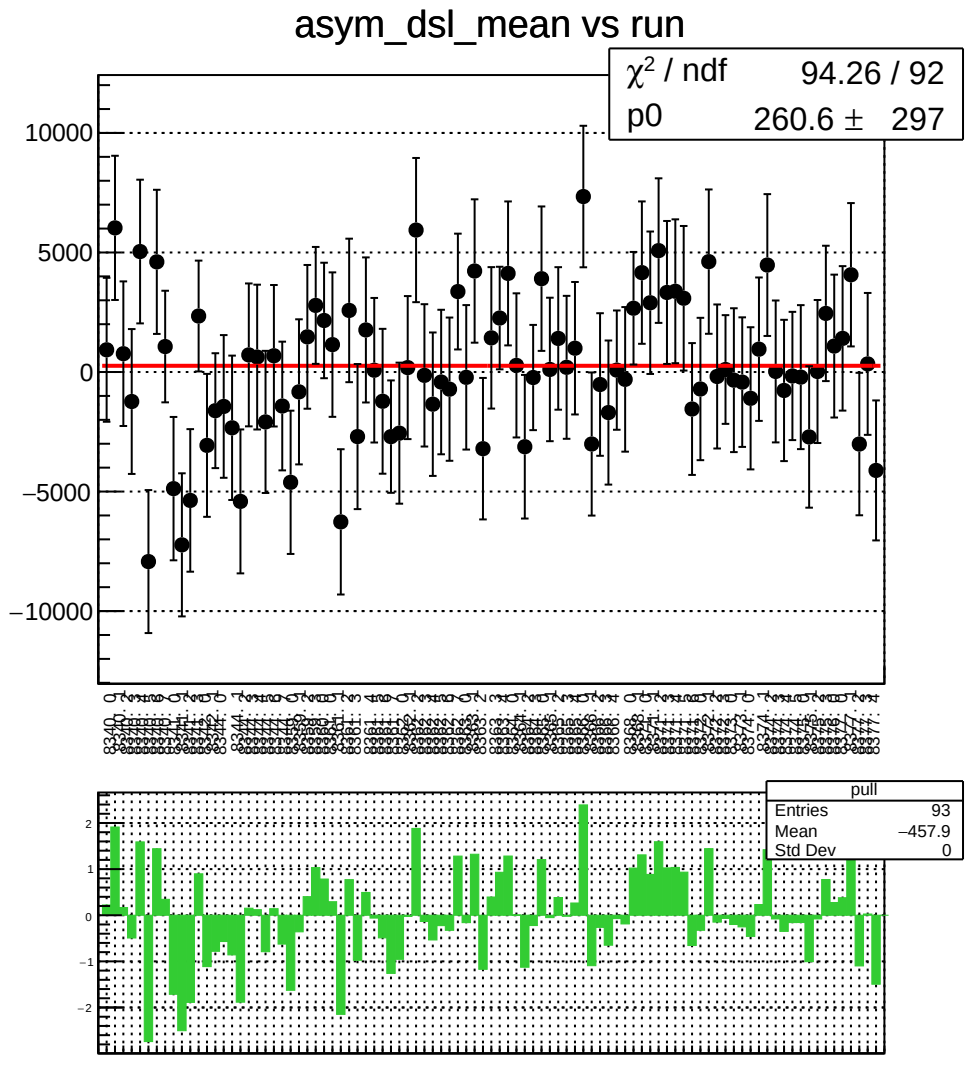

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 129.9 / 92
p0 −0.07021 ± 0.05476
pull
Entries 93
Mean 17.92
Std Dev 0
pull1D
Entries 93
Mean 0.02973
Std Dev 1.181

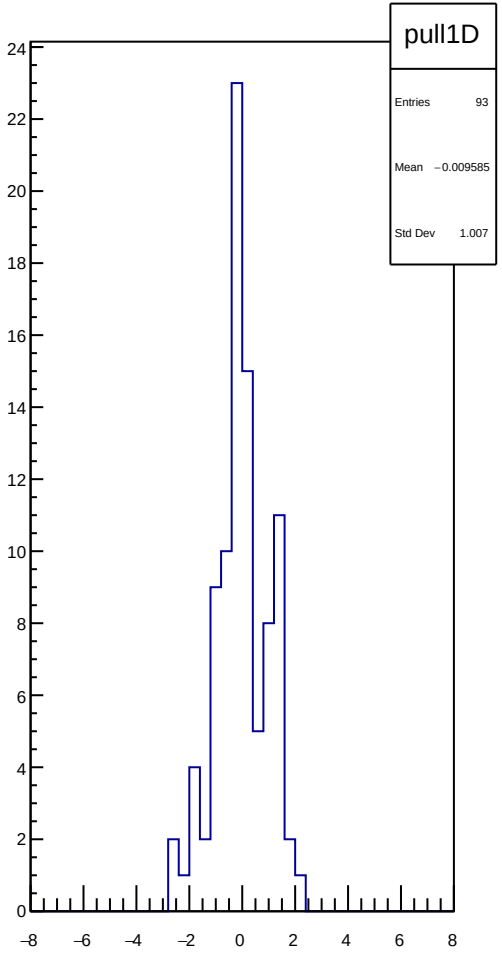

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.383e+04 / 92
p0 51.37 ± 0.03872
80
70
60
50
40
30

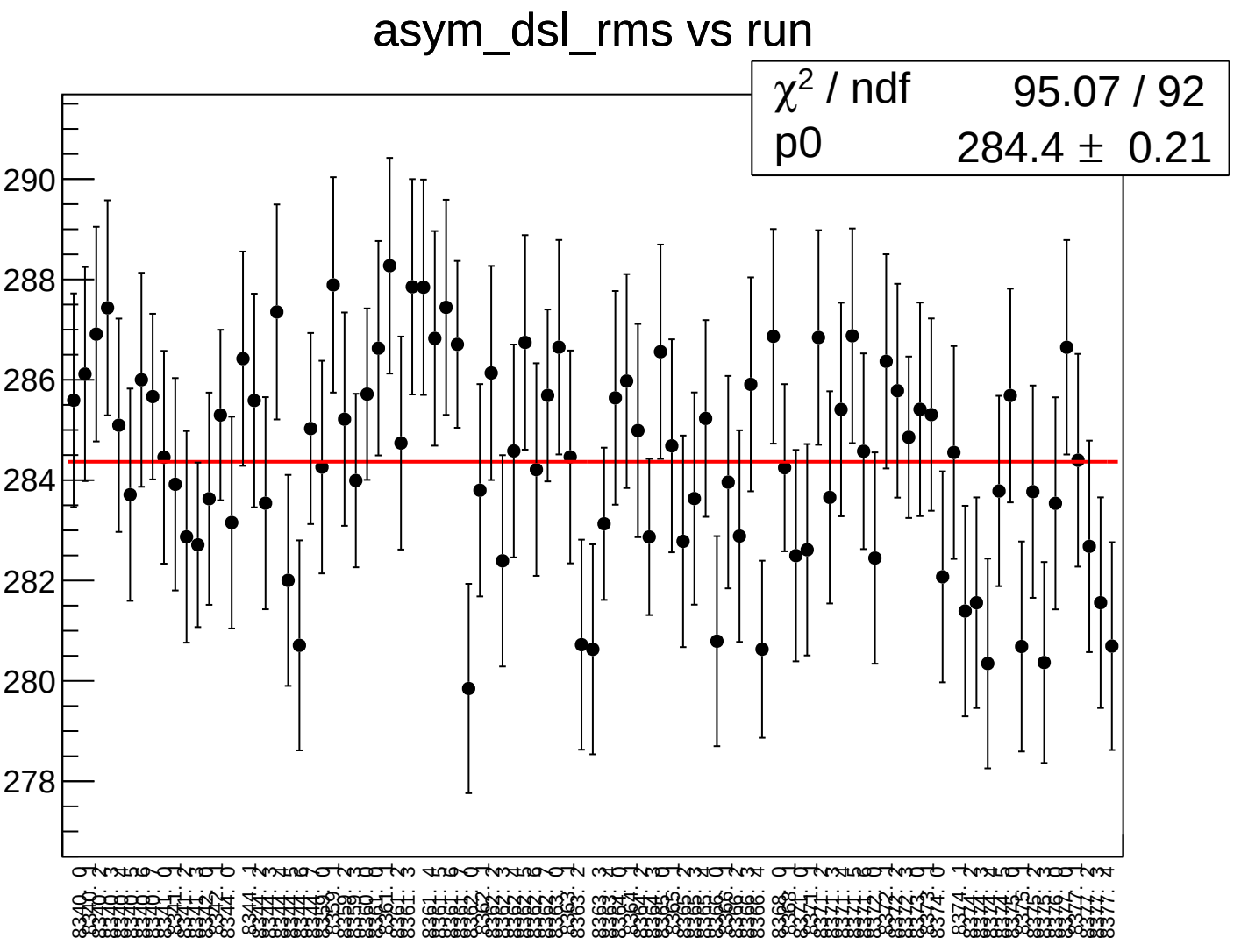

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 129.9 / 92
p0 −0.07021 ± 0.05476
pull
Entries 93
Mean 17.92
Std Dev 0

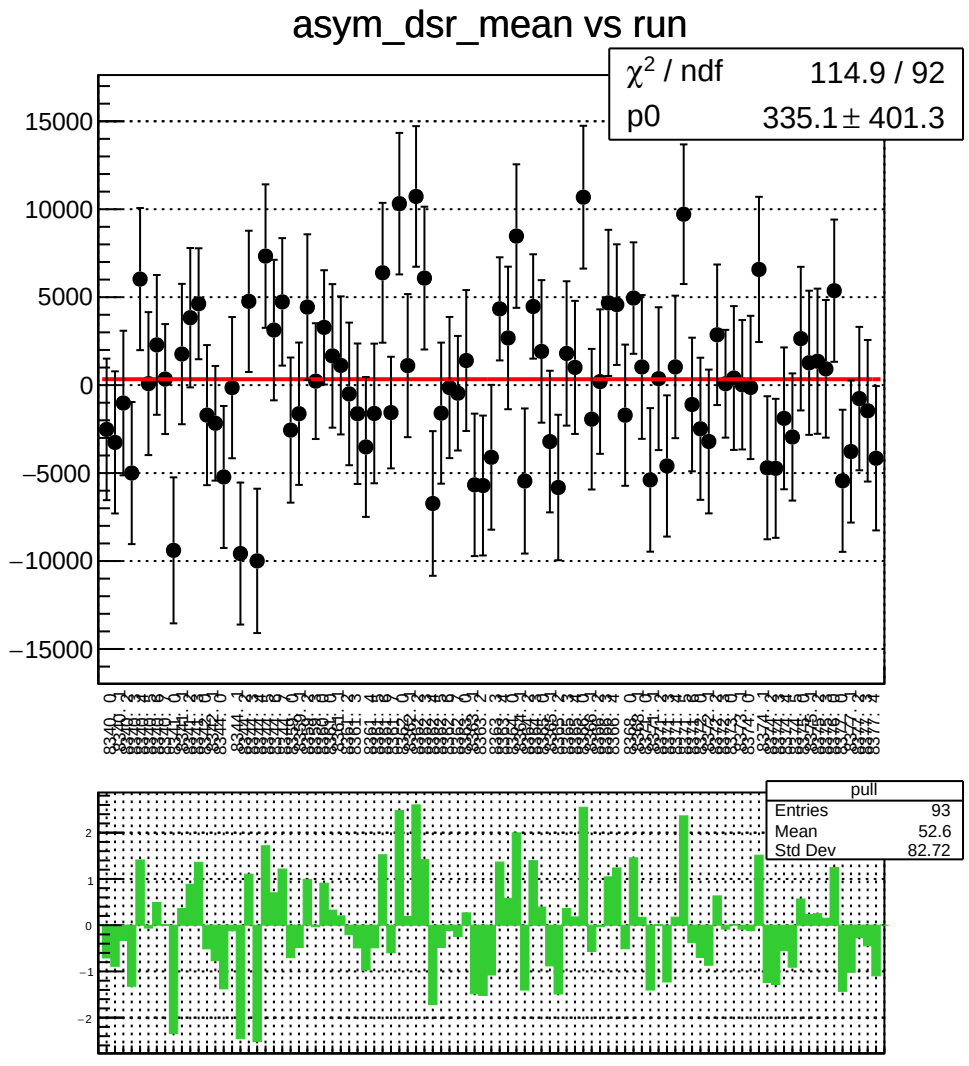

pull1D
Entries 93
Mean 0.02973
Std Dev 1.181

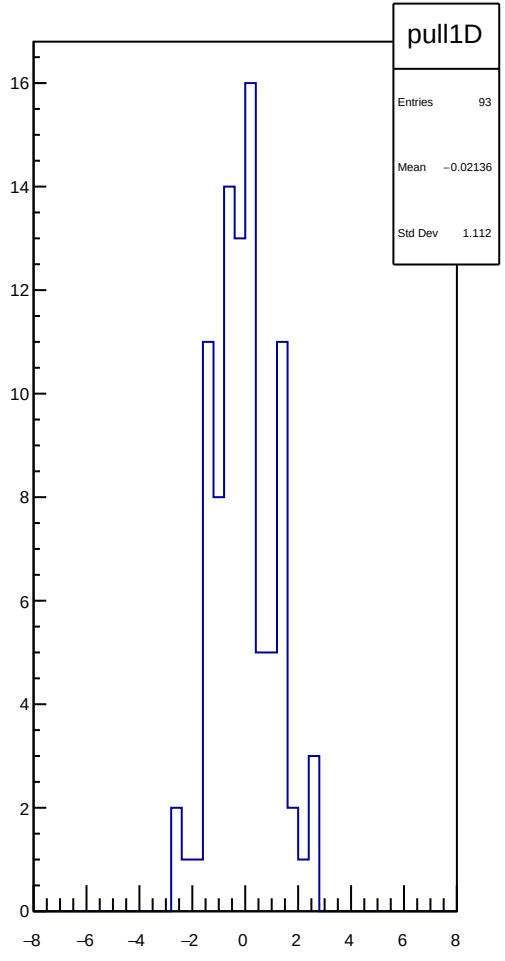

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.383e+04 / 92
p0 51.37 ± 0.03872
80
70
60
50
40
30

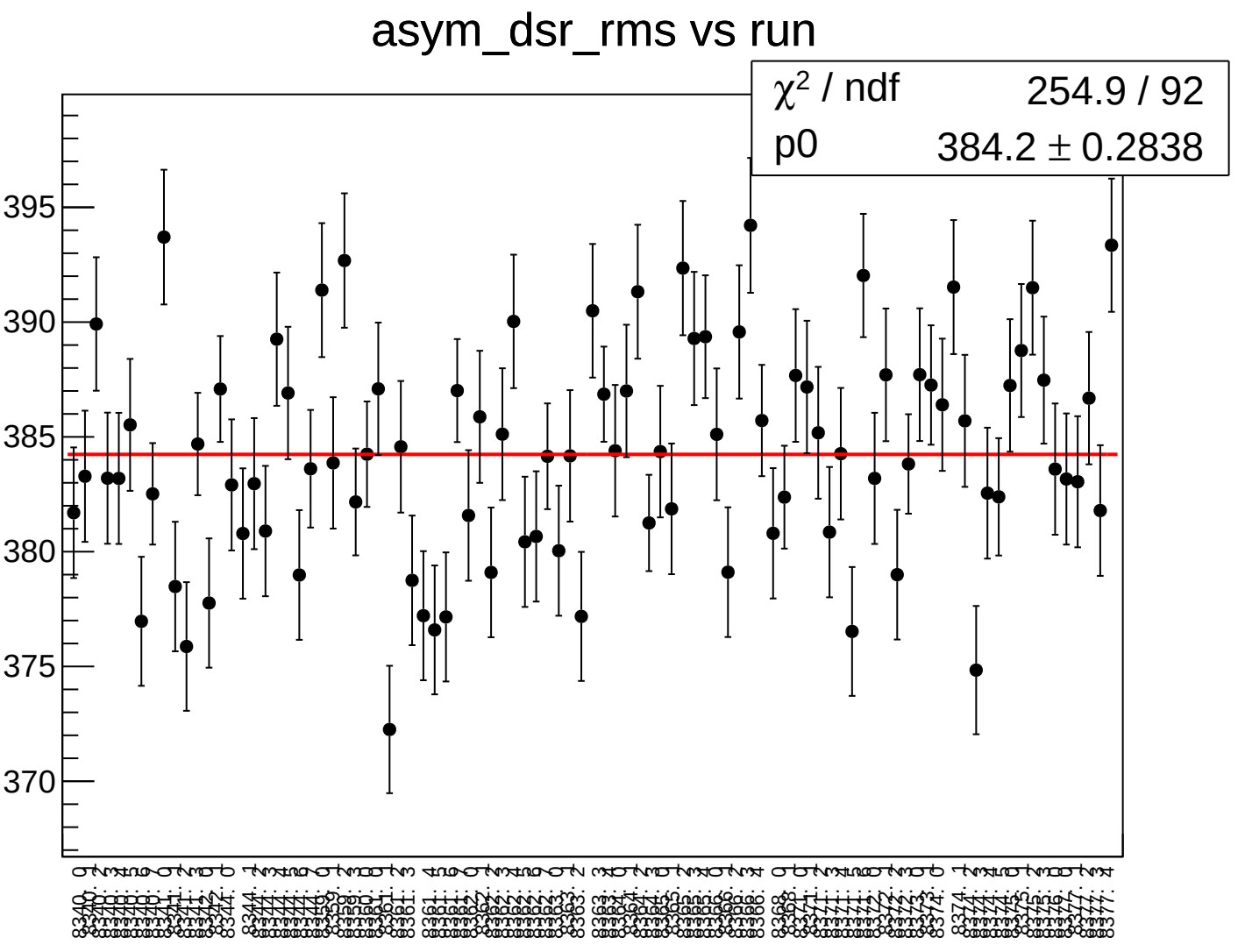

asym_dsl_mean vs run
χ² / ndf 94.26 / 92
p0 260.6 ± 297
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −457.9
Std Dev 0
2
1
0
−1
−2

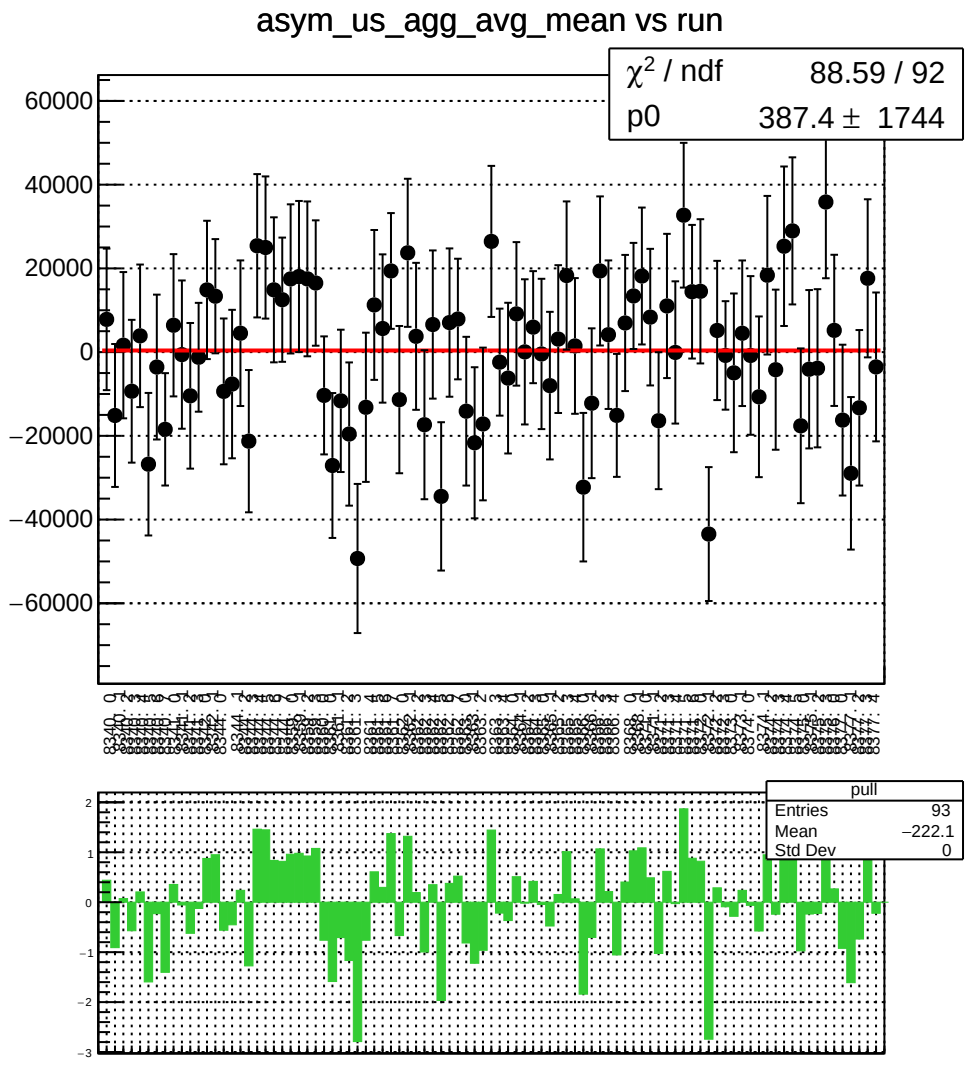

pull1D
Entries 93
Mean −0.009585
Std Dev 1.007
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

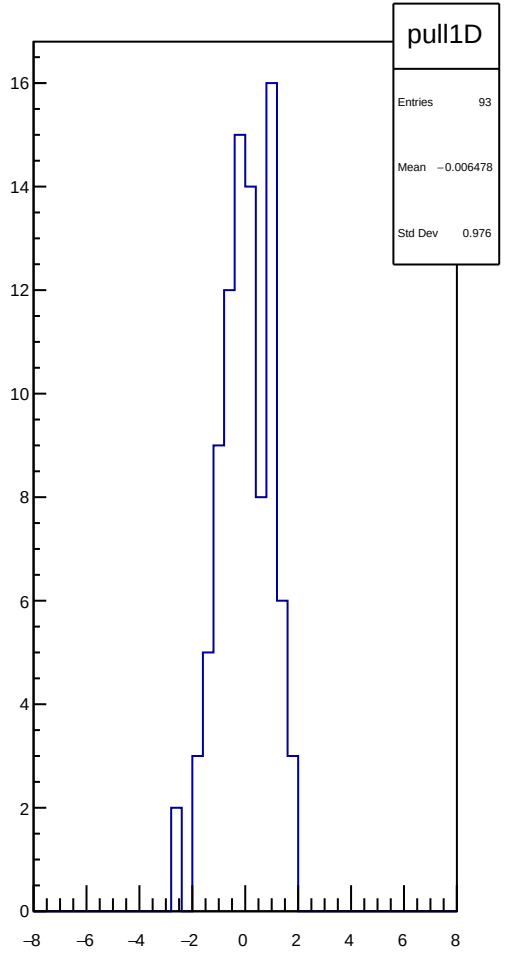

asym_dsl_rms vs run
χ^2 / ndf 95.07 / 92
p0 284.4 ± 0.21
290
288
286
284
282
280
278

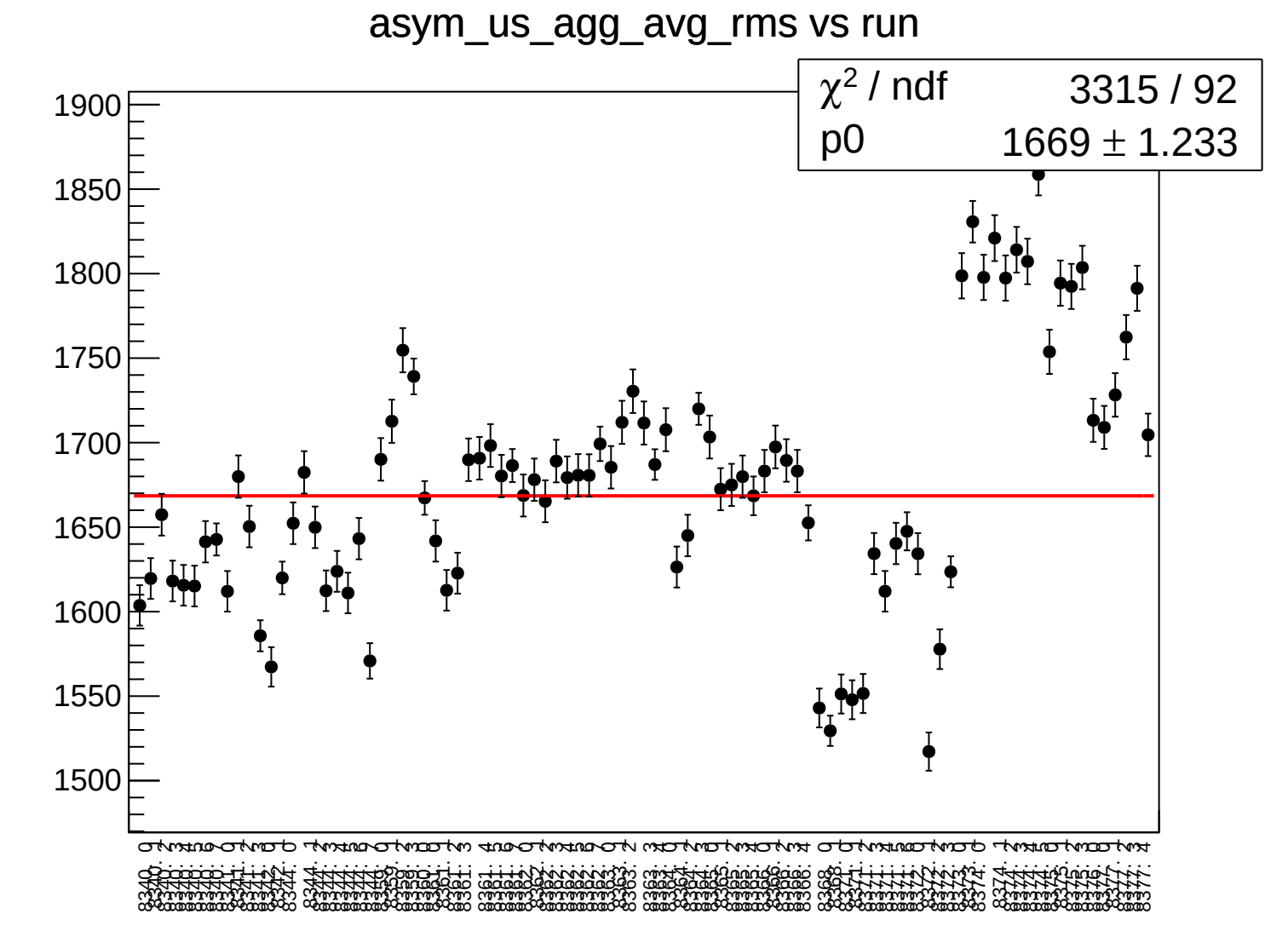

asym_dsr_mean vs run
χ² / ndf 114.9 / 92
p0 335.1 ± 401.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 52.6
Std Dev 82.72
2
1
0
−1
−2

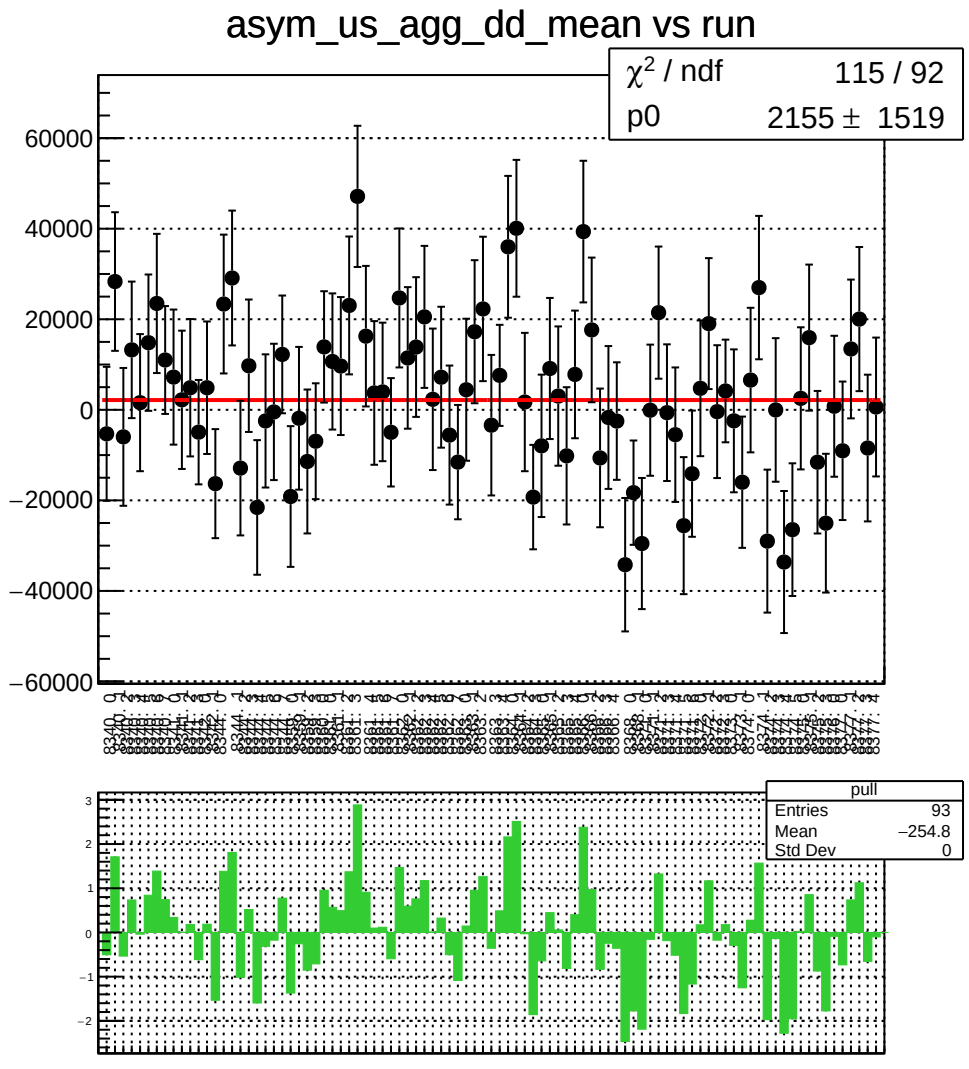

pull1D
Entries 93
Mean −0.02136
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

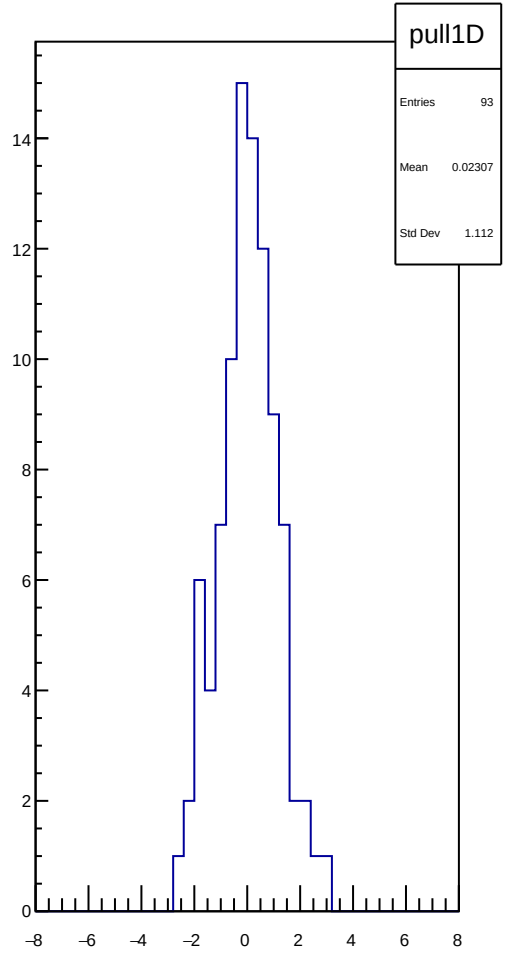

asym_dsr_rms vs run
χ² / ndf 254.9 / 92
p0 384.2 ± 0.2838
395
390
385
380
375
370


asym_us_agg_avg_mean vs run
χ² / ndf 88.59 / 92
p0 387.4 ± 1744
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −222.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.006478
Std Dev 0.976
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 3315 / 92
p0 1669 ± 1.233
1900
1850
1800
1750
1700
1650
1600
1550
1500


asym_us_agg_dd_mean vs run
χ² / ndf 115 / 92
p0 2155 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −254.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.02307
Std Dev 1.112
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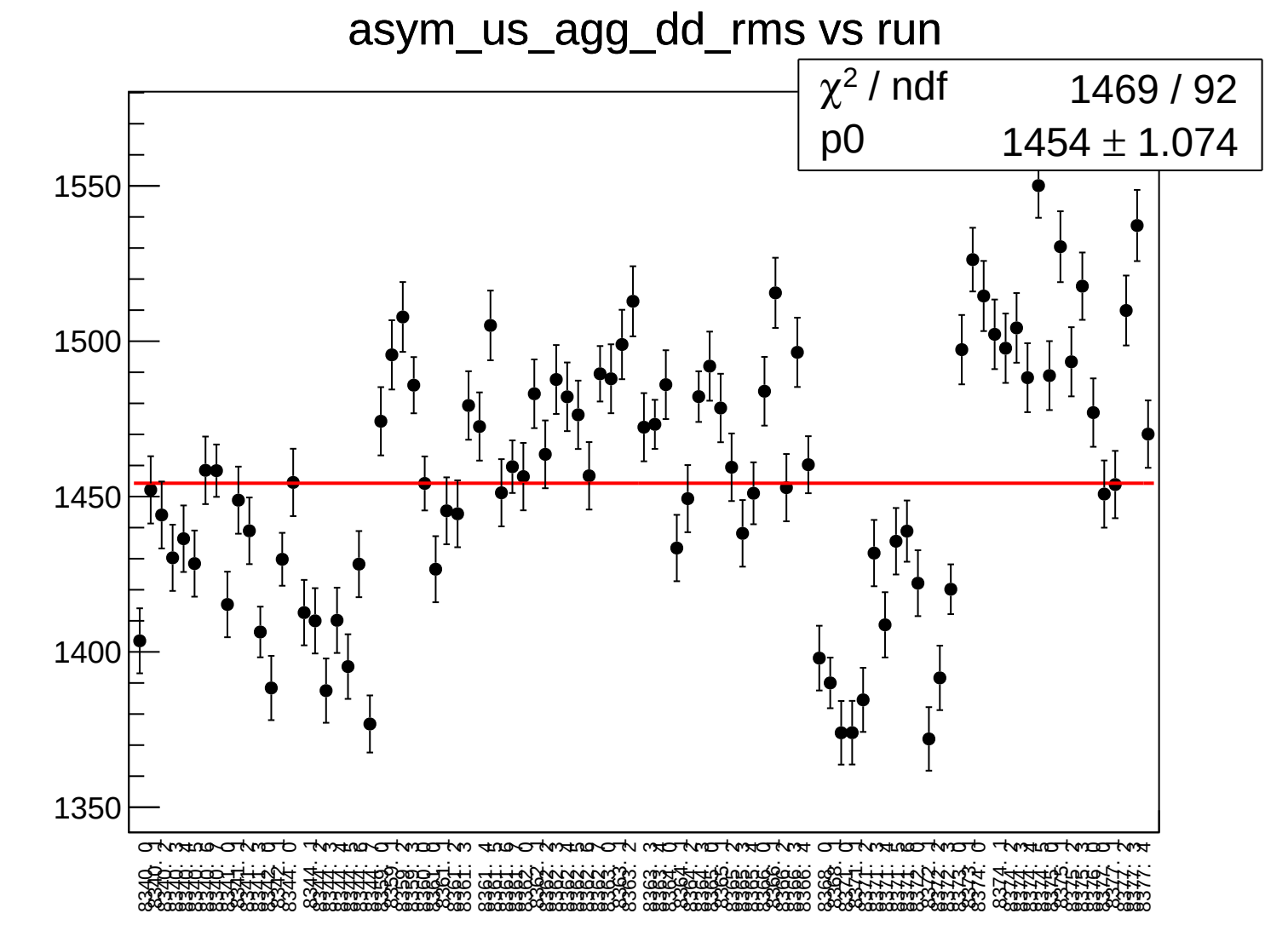
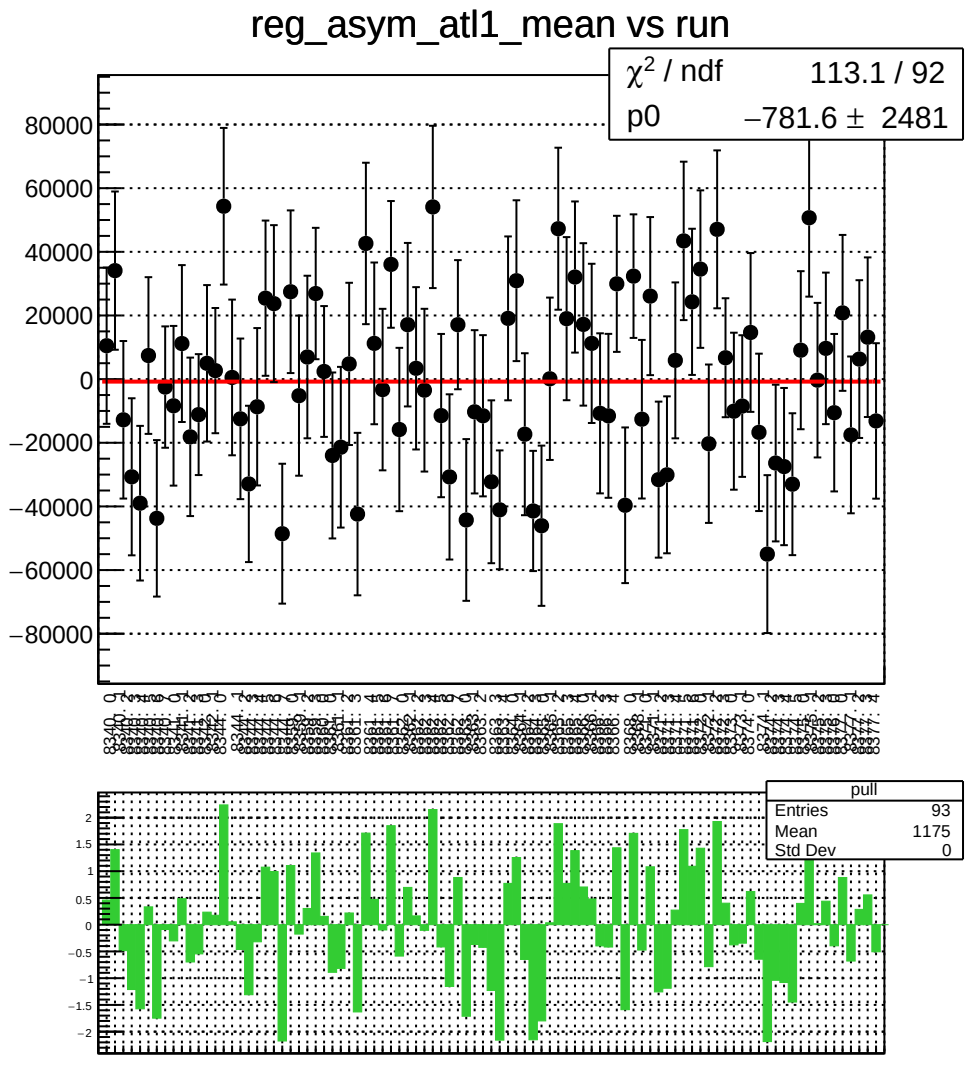
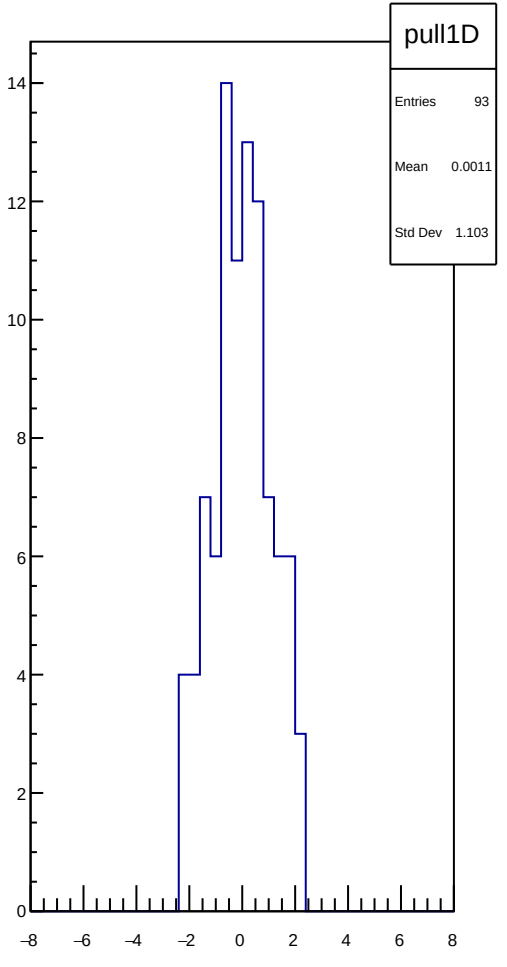
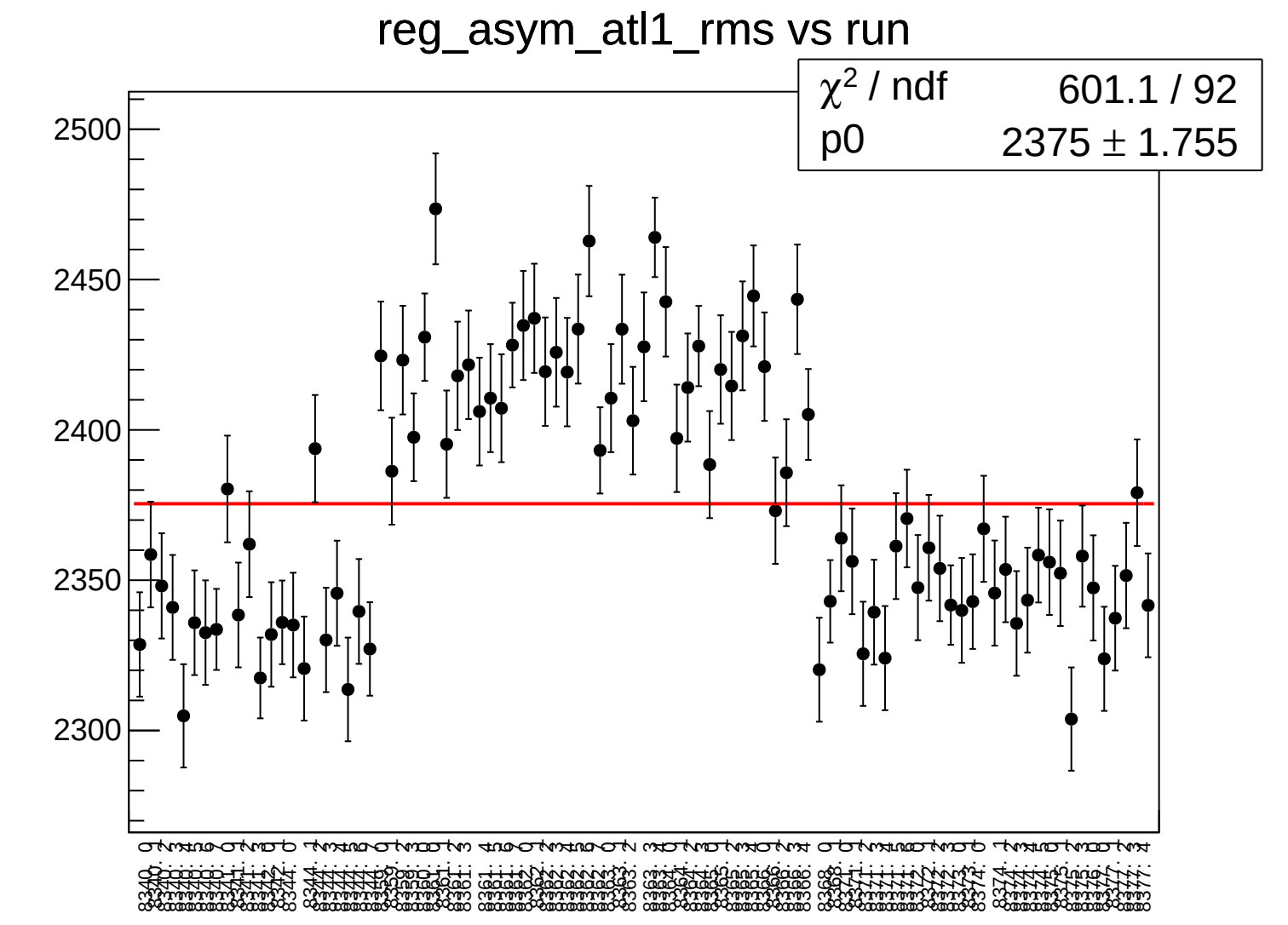
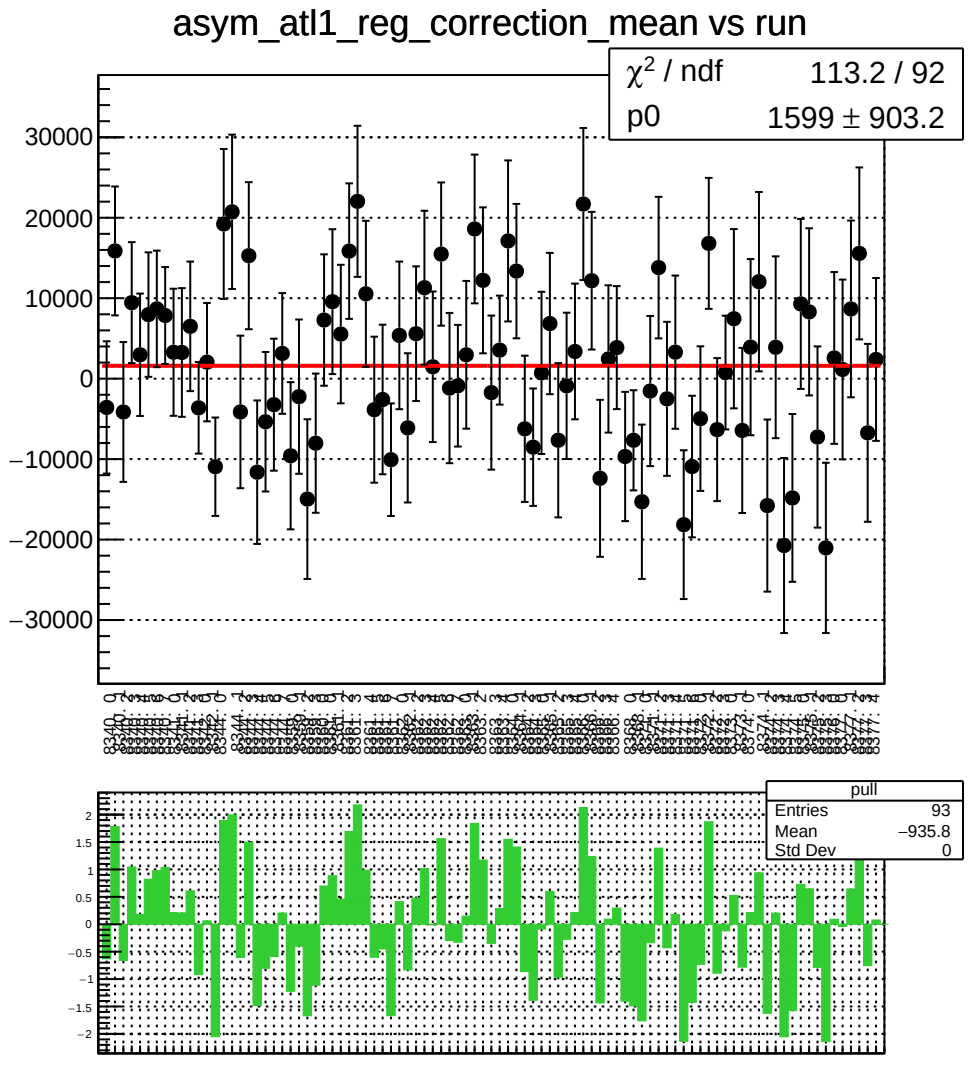
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

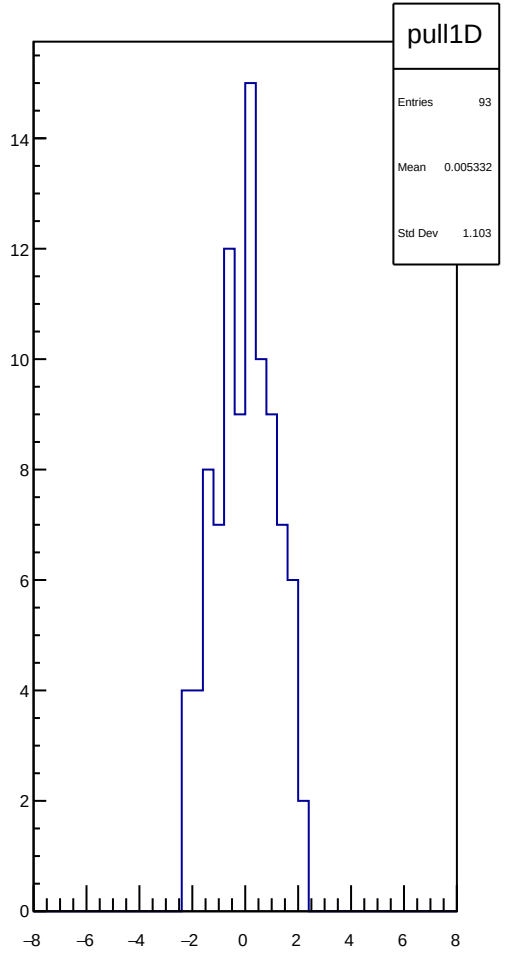

asym_us_agg_dd_rms vs run
χ² / ndf 1469 / 92
p0 1454 ± 1.074
1550
1500
1450
1400
1350


reg_asym_atl1_mean vs run
χ² / ndf 113.1 / 92
p0 −781.6 ± 2481
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1175
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.0011
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1_rms vs run
χ² / ndf 601.1 / 92
p0 2375 ± 1.755
2500
2450
2400
2350
2300


asym_atl1_reg_correction_mean vs run
χ² / ndf 113.2 / 92
p0 1599 ± 903.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −935.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.005332
Std Dev 1.103
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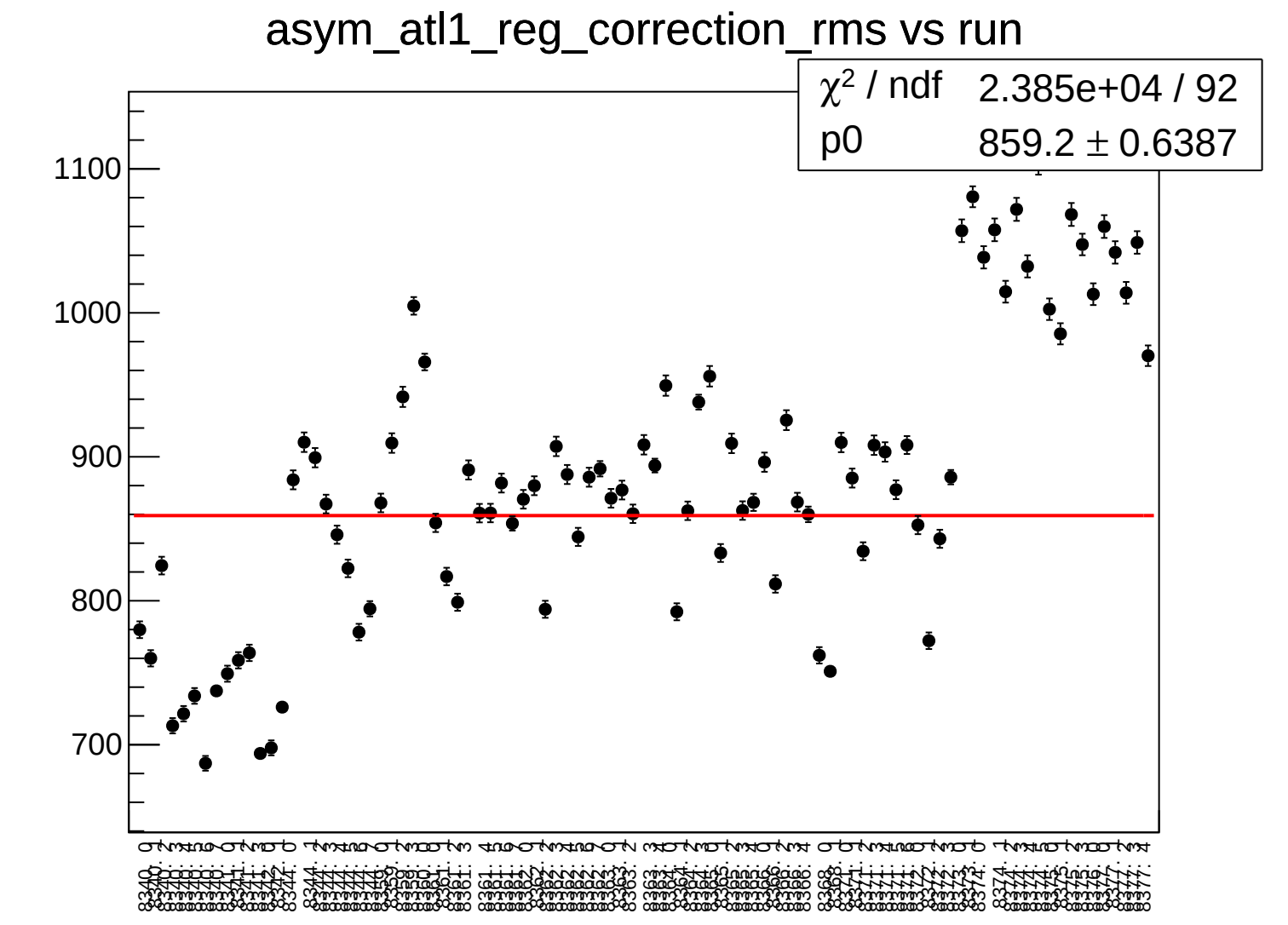
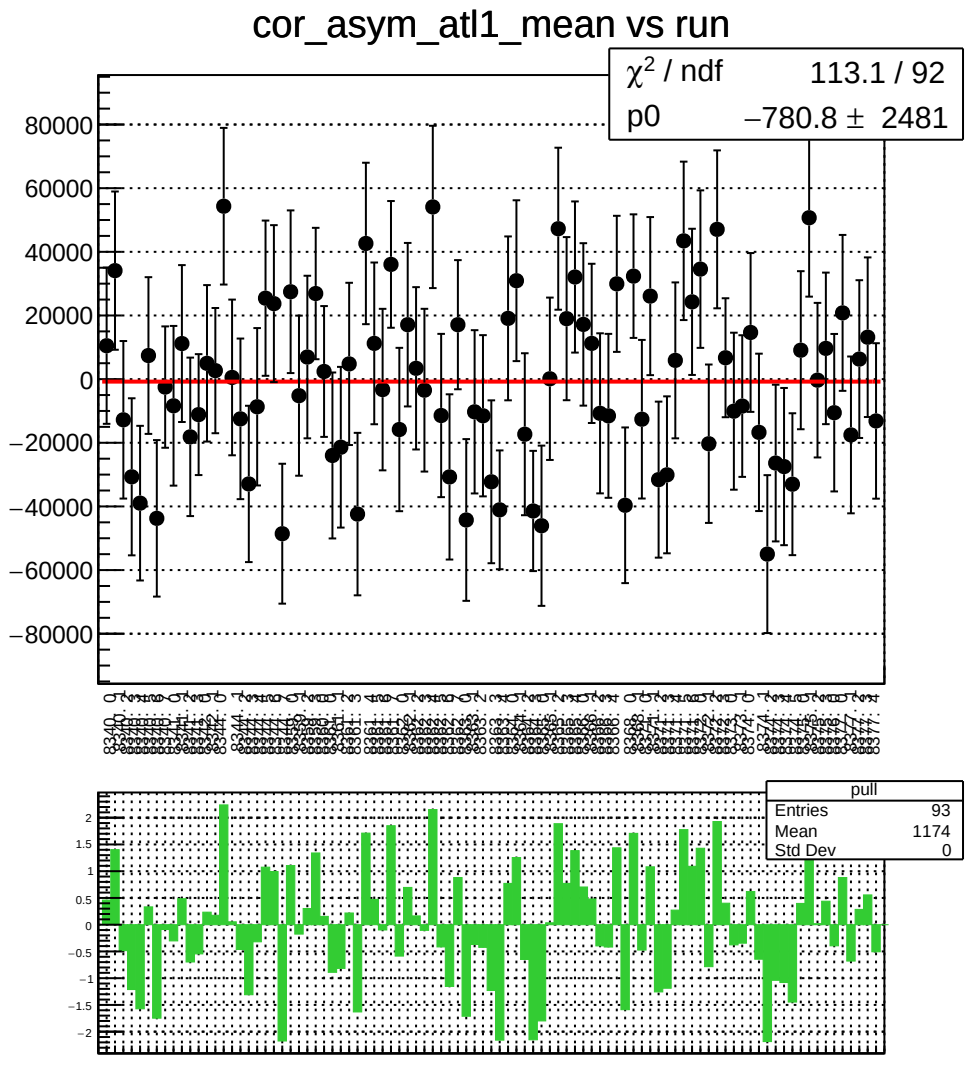
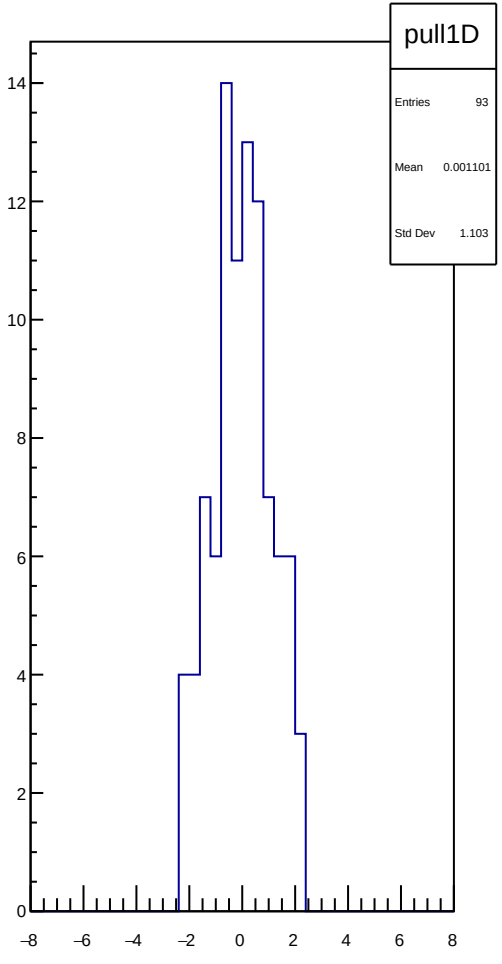
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_reg_correction_rms vs run
χ² / ndf 2.385e+04 / 92
p0 859.2 ± 0.6387
1100
1000
900
800
700


cor_asym_atl1_mean vs run
χ² / ndf 113.1 / 92
p0 −780.8 ± 2481
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1174
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.001101
Std Dev 1.103
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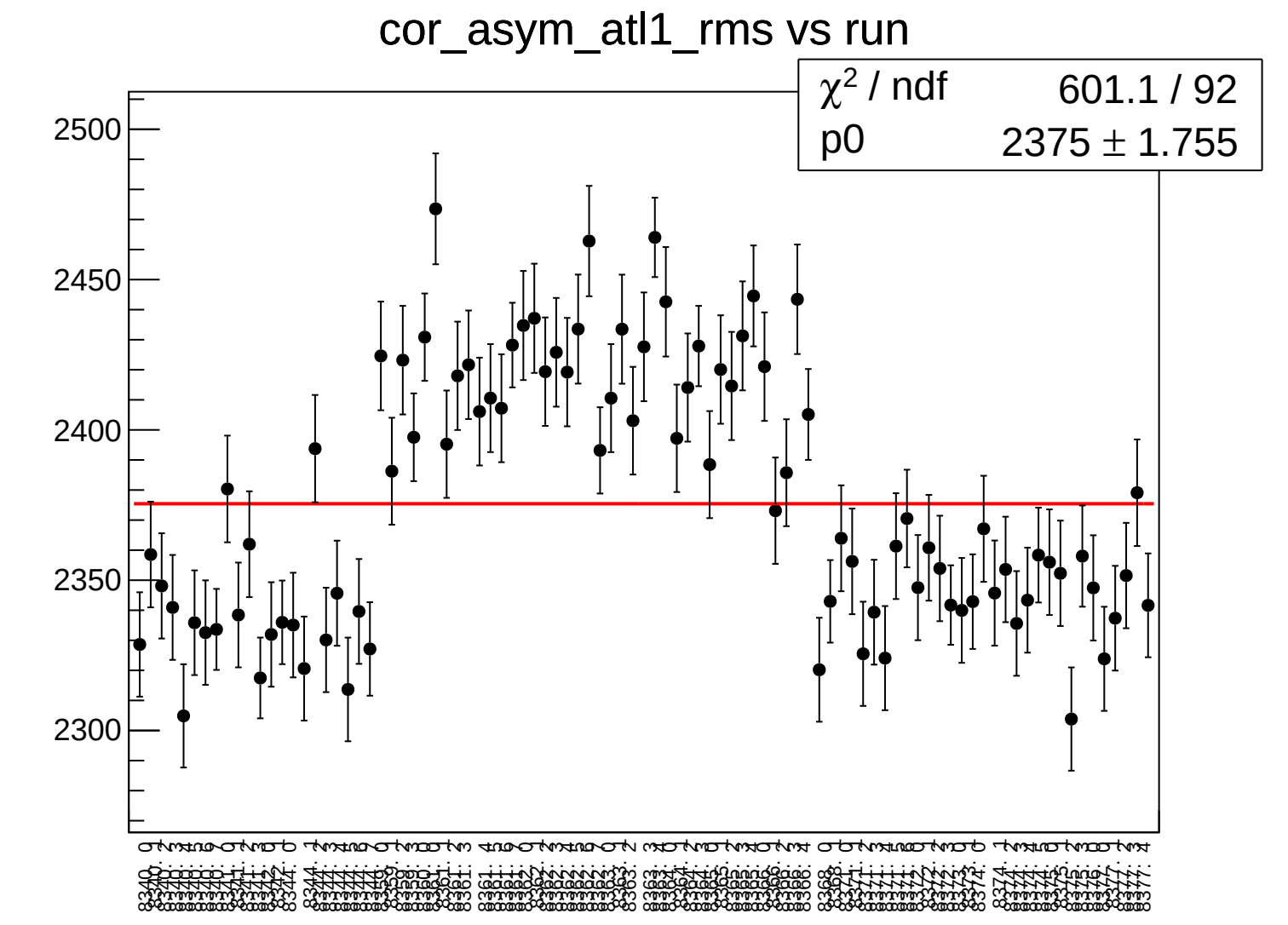
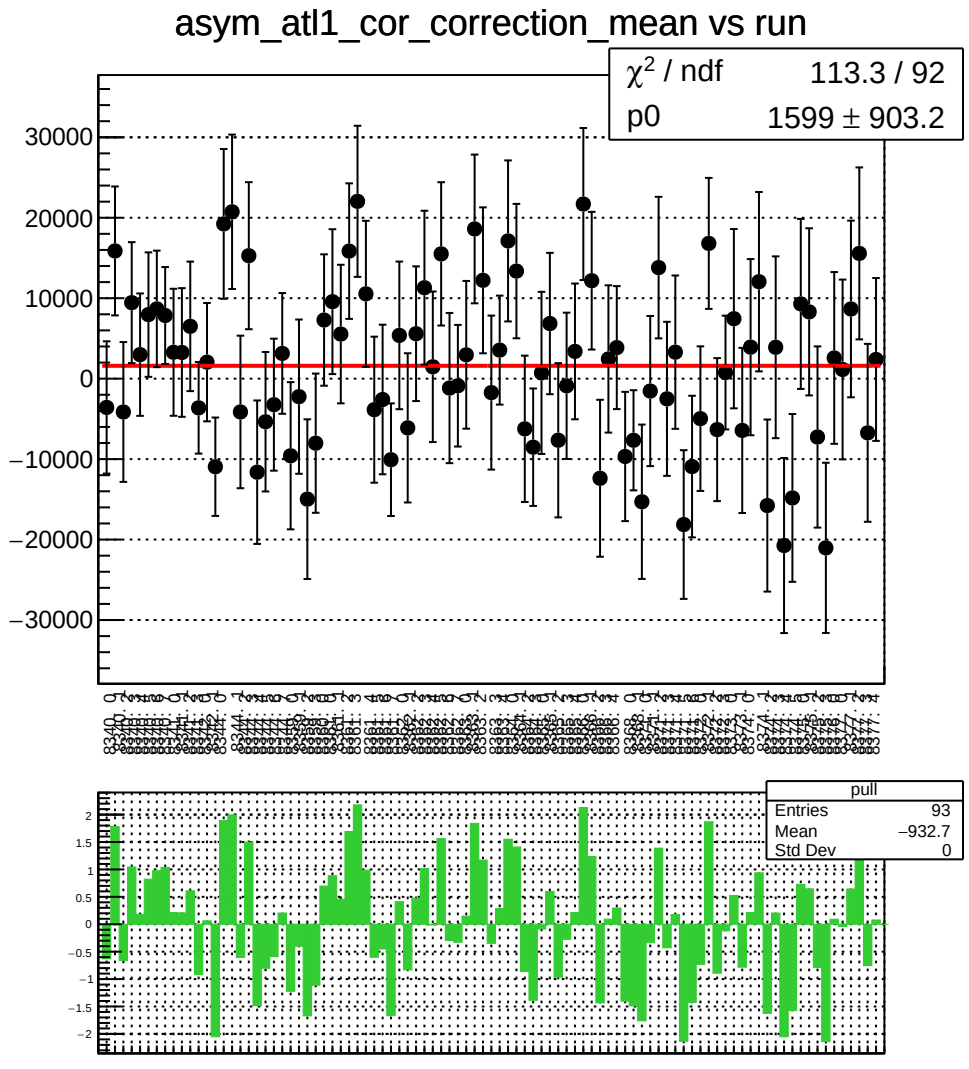
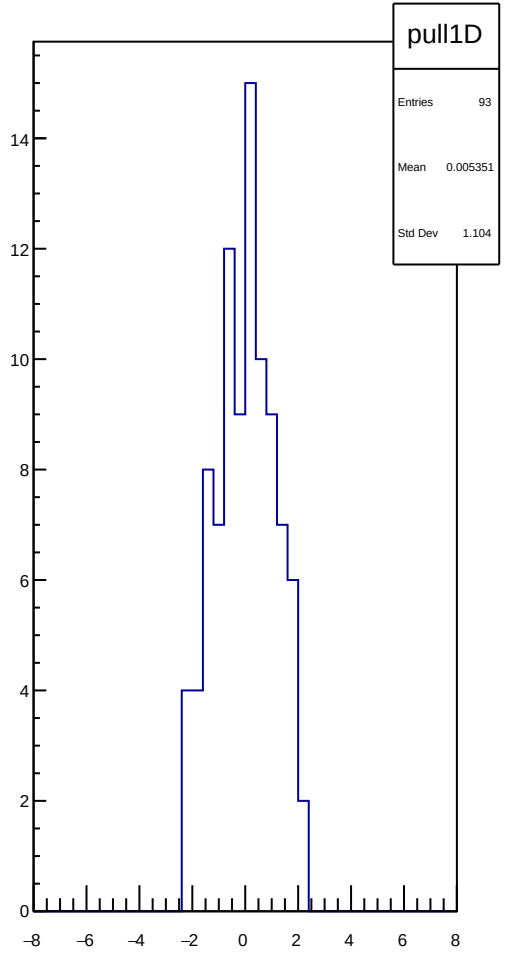
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1_rms vs run
χ^2 / ndf 601.1 / 92
p0 2375 ± 1.755
2500
2450
2400
2350
2300


asym_atl1_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 1599 ± 903.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −932.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.005351
Std Dev 1.104
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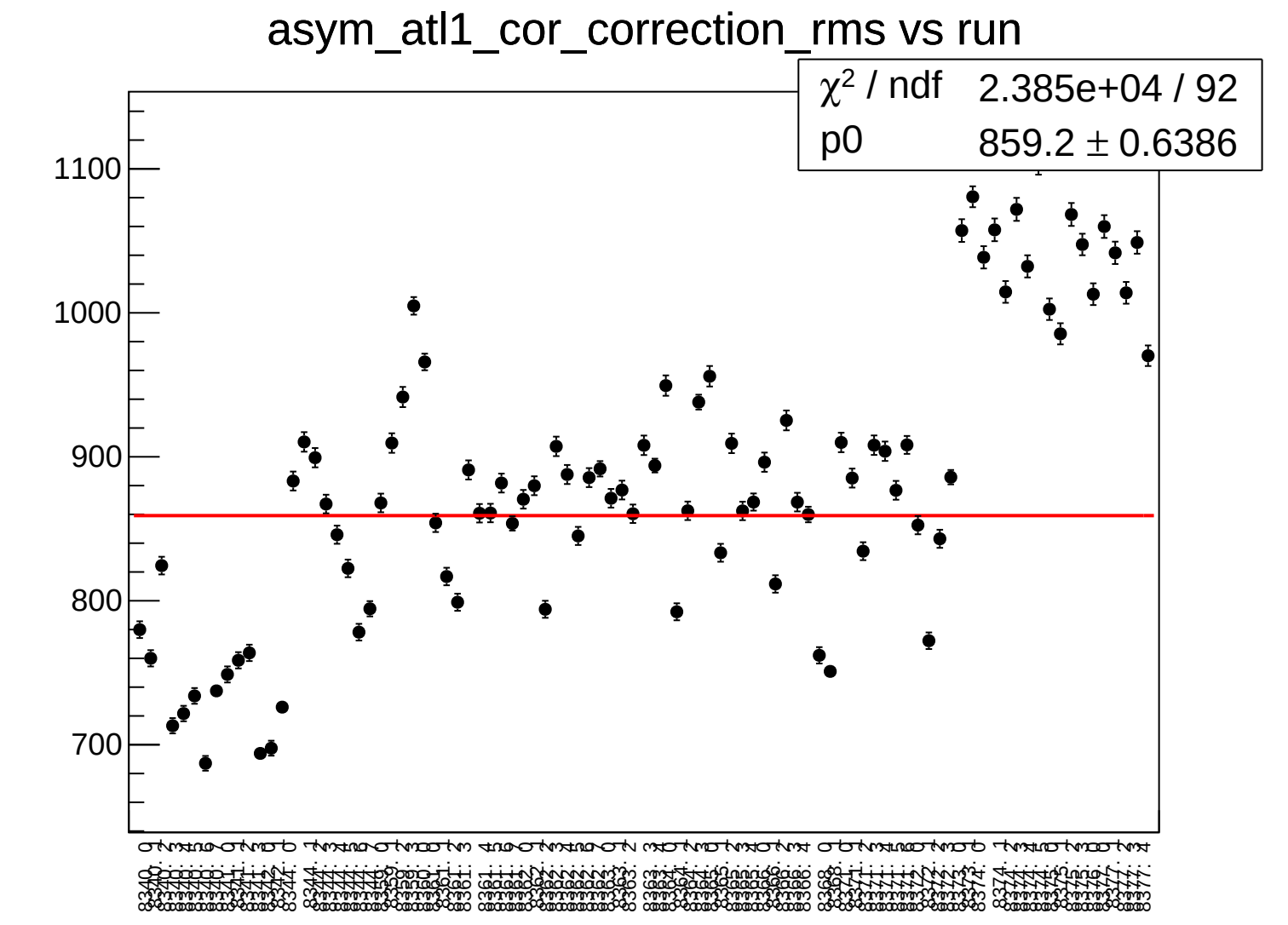
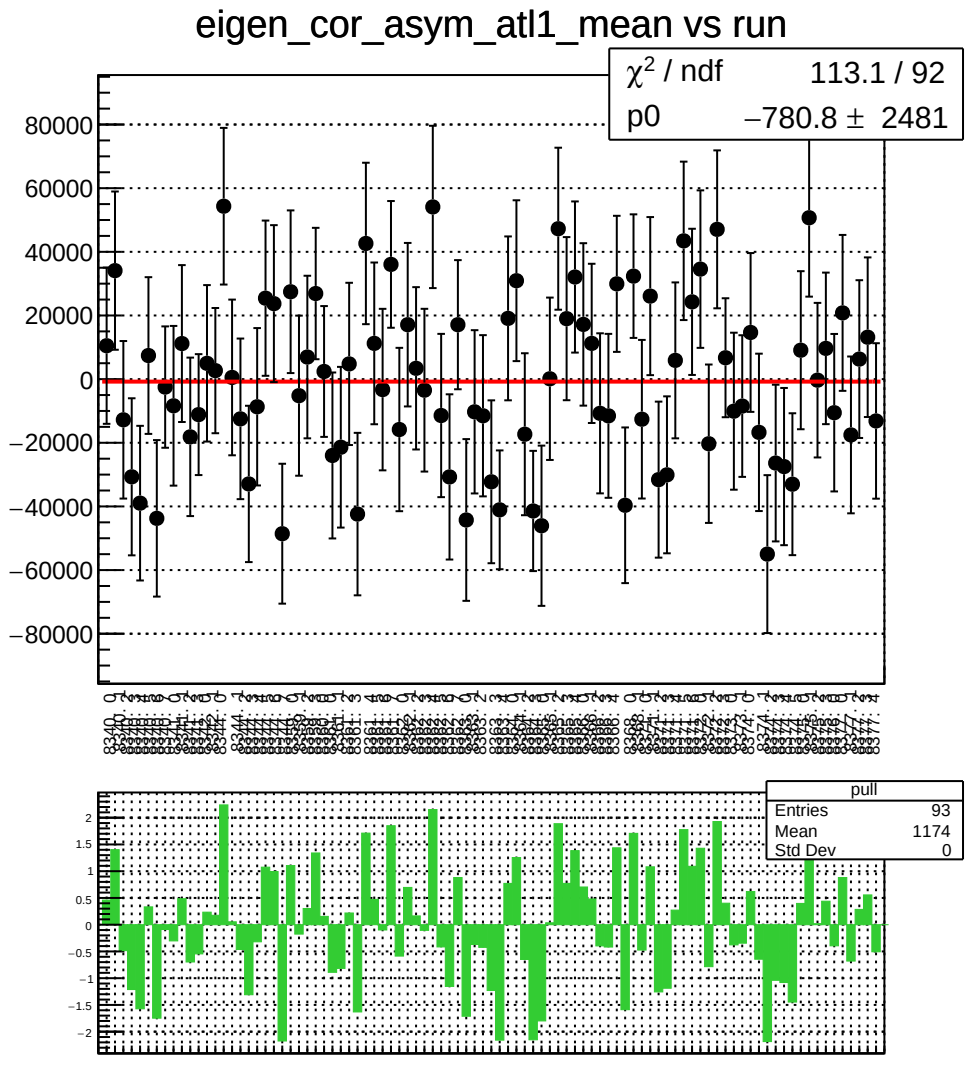
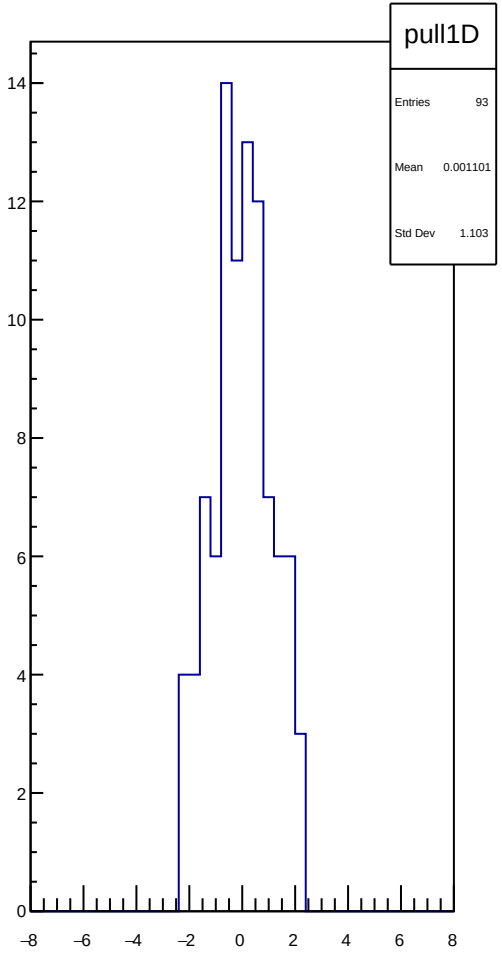
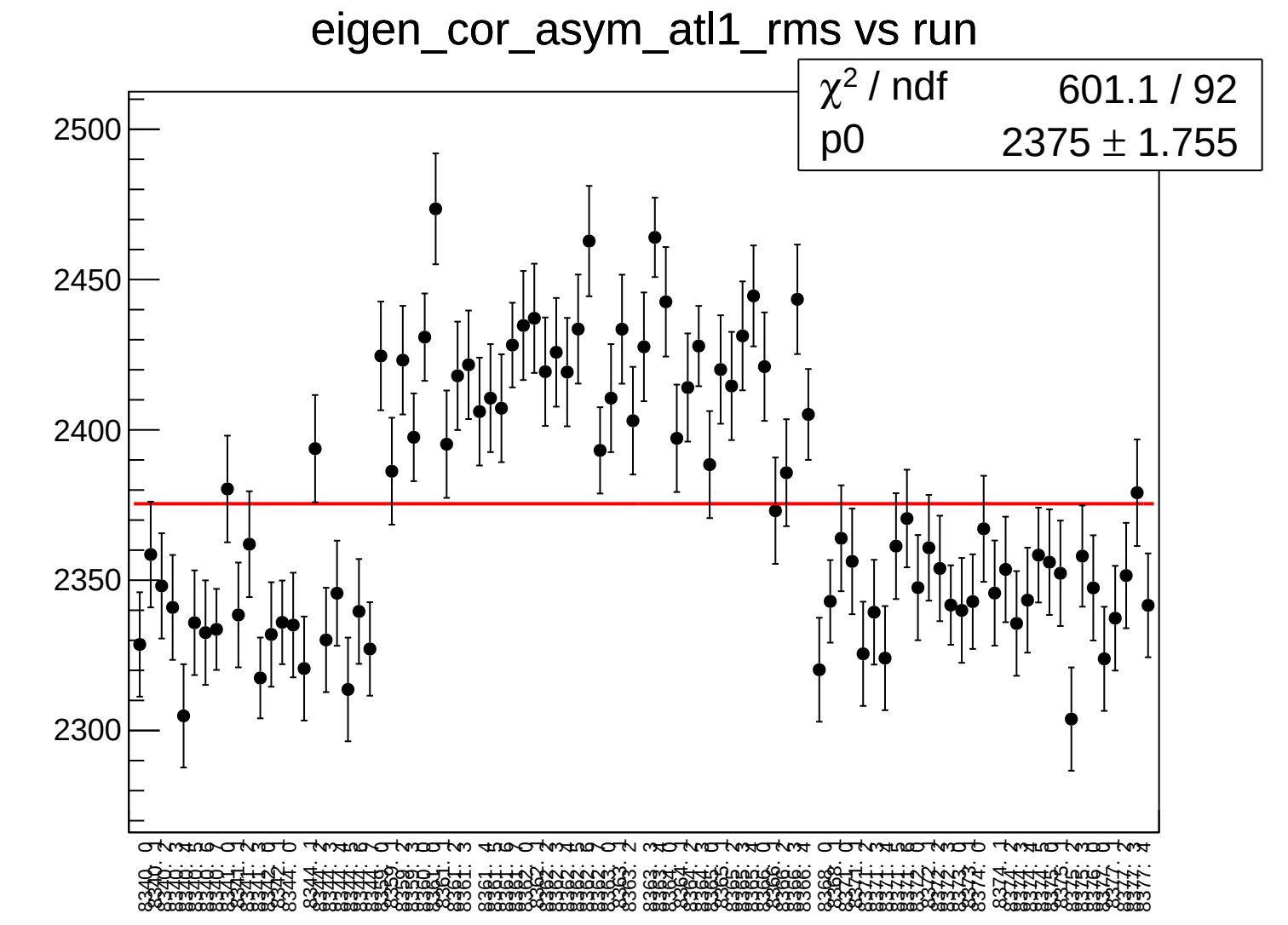
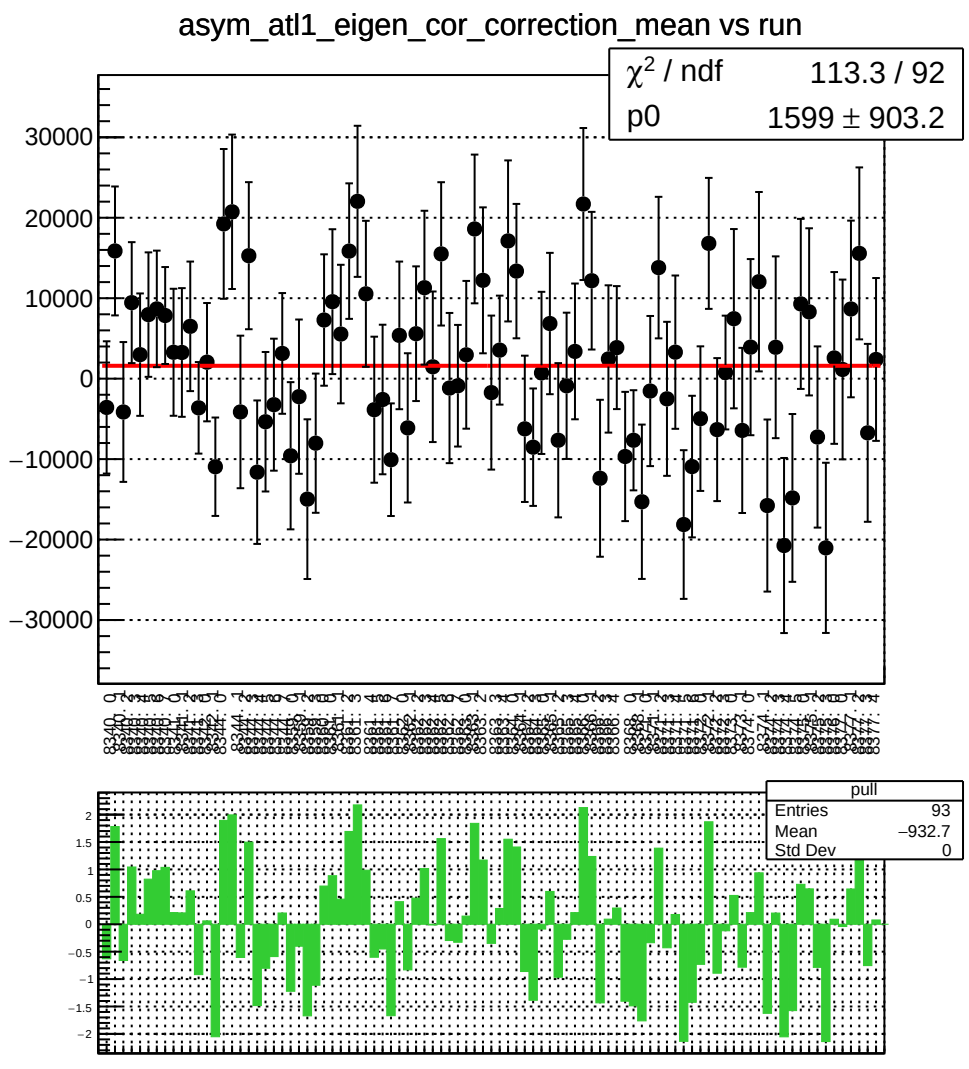
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1_cor_correction_rms vs run
χ² / ndf 2.385e+04 / 92
p0 859.2 ± 0.6386
1100
1000
900
800
700


eigen_cor_asym_atl1_mean vs run
χ² / ndf 113.1 / 92
p0 −780.8 ± 2481
pull
Entries 93
Mean 1174
Std Dev 0


pull1D
Entries 93
Mean 0.001101
Std Dev 1.103


eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 601.1 / 92
p0 2375 ± 1.755
2500
2450
2400
2350
2300


asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 1599 ± 903.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −932.7
Std Dev 0
2
1.5
1
0.5
0
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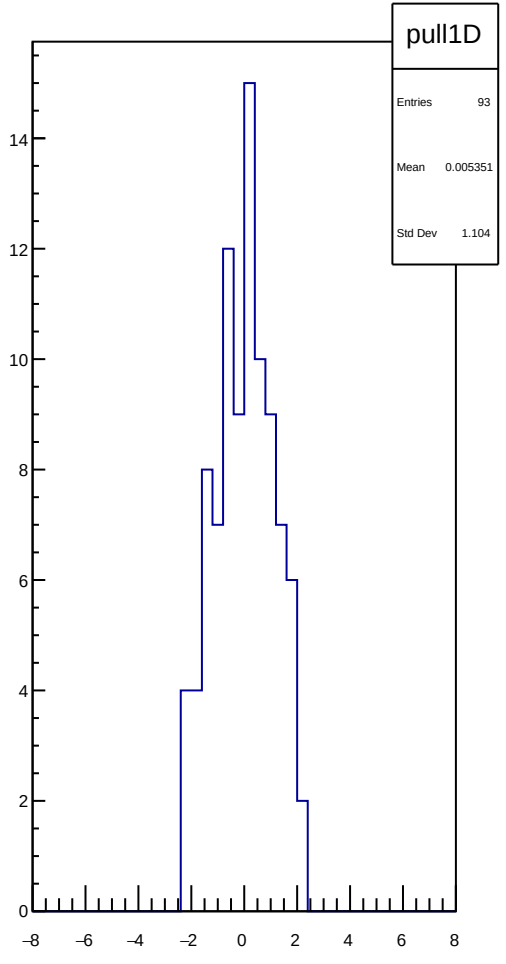
−1
−1.5
−2


pull1D
Entries 93
Mean 0.005351
Std Dev 1.104
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10
8
6
4
2
0
−8
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−4
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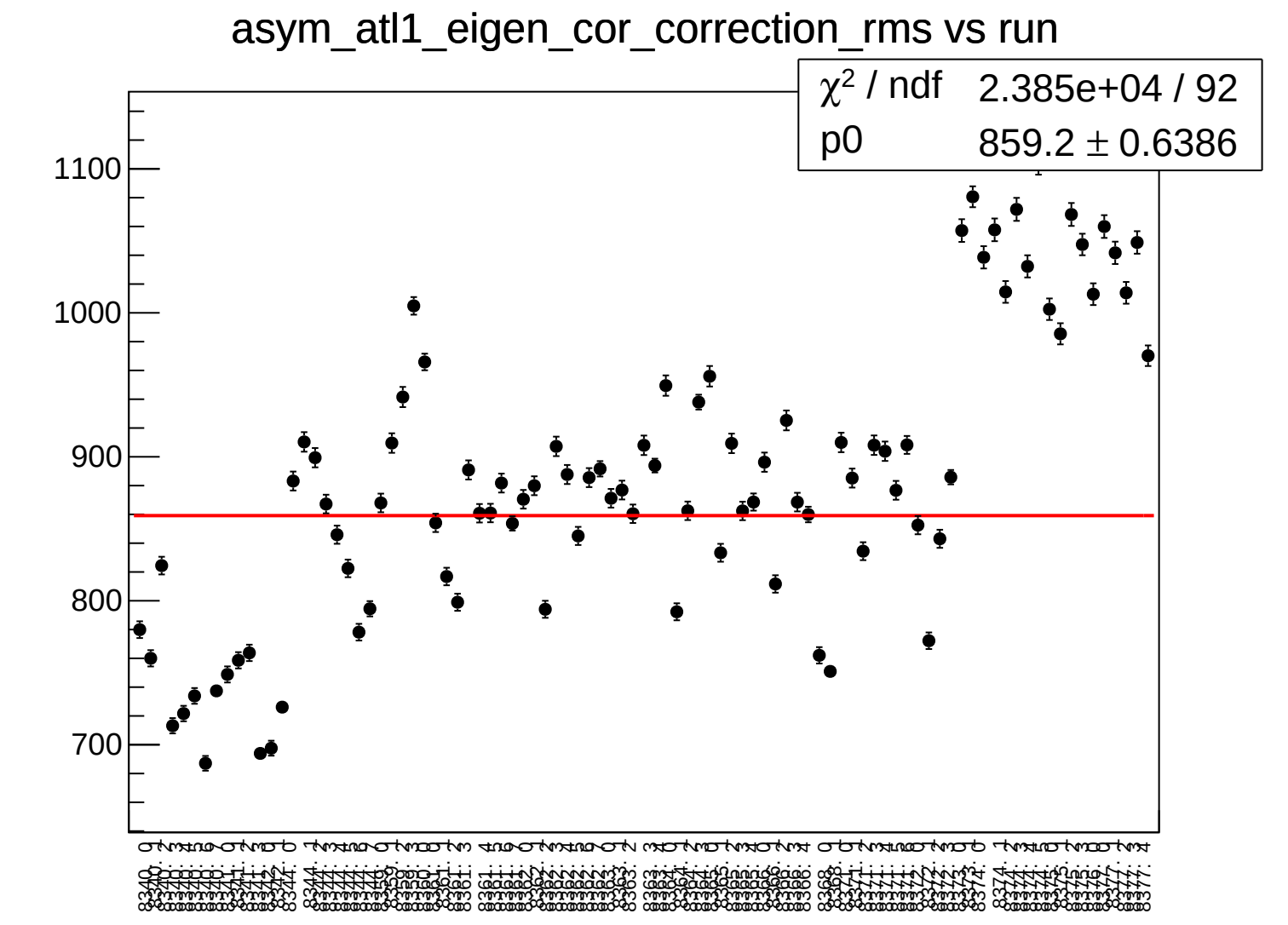
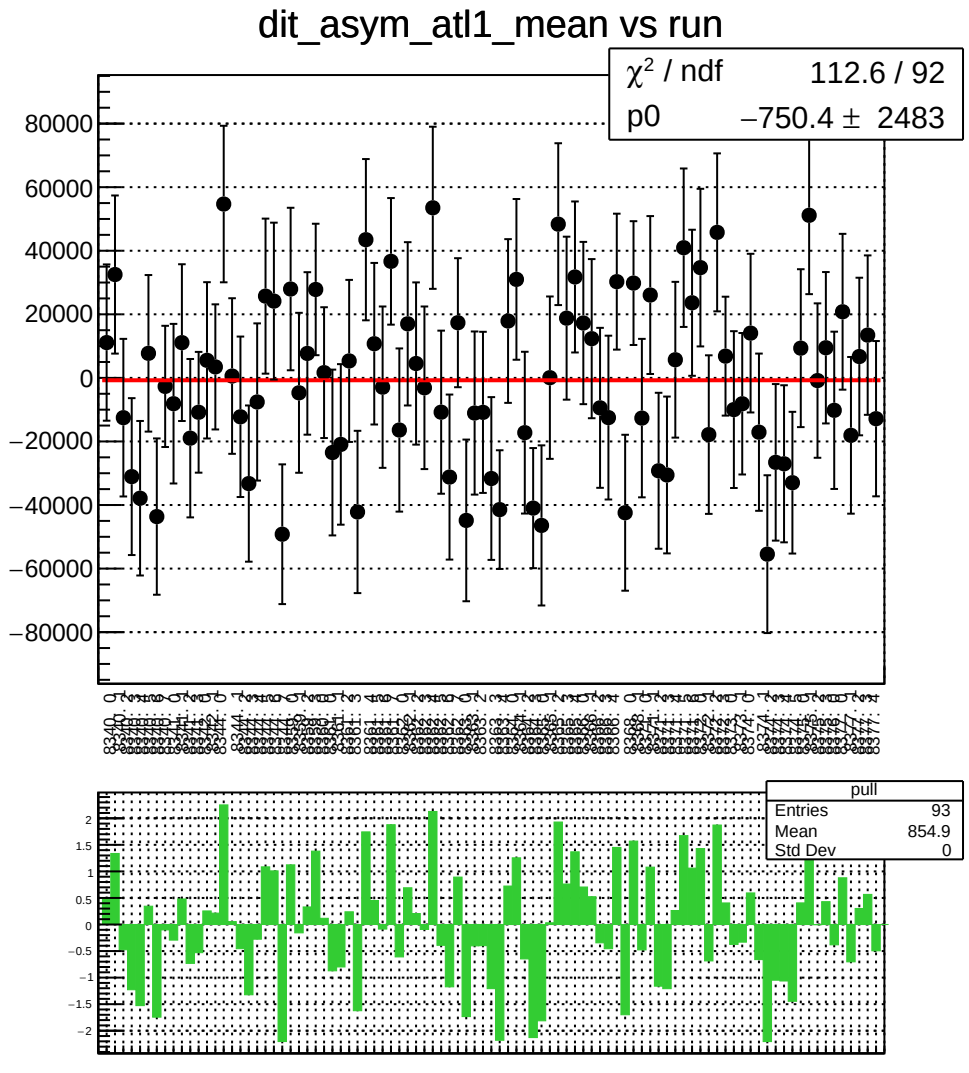
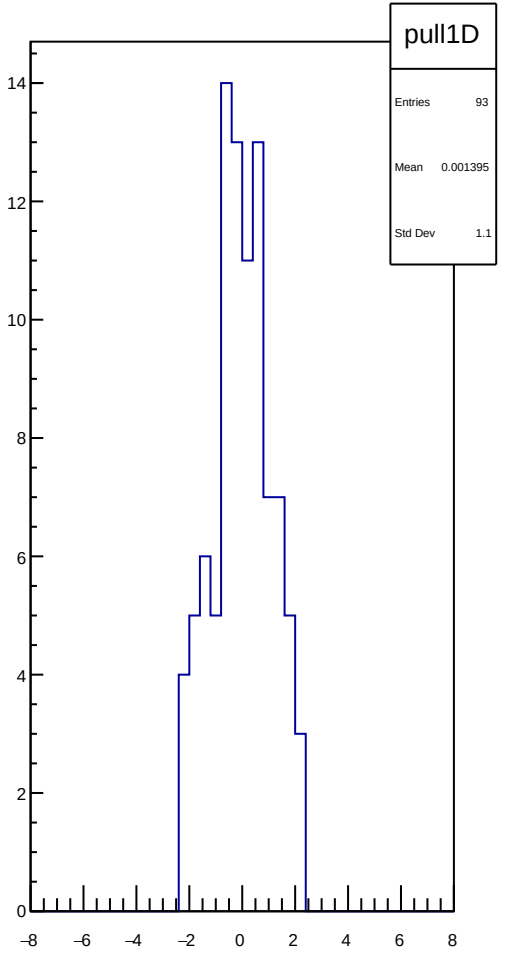
0
2
4
6
8


asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 2.385e+04 / 92
p0 859.2 ± 0.6386
1100
1000
900
800
700


dit_asym_atl1_mean vs run
χ² / ndf 112.6 / 92
p0 −750.4 ± 2483
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 854.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.001395
Std Dev 1.1
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12
10
8
6
4
2
0
−8
−6
−4
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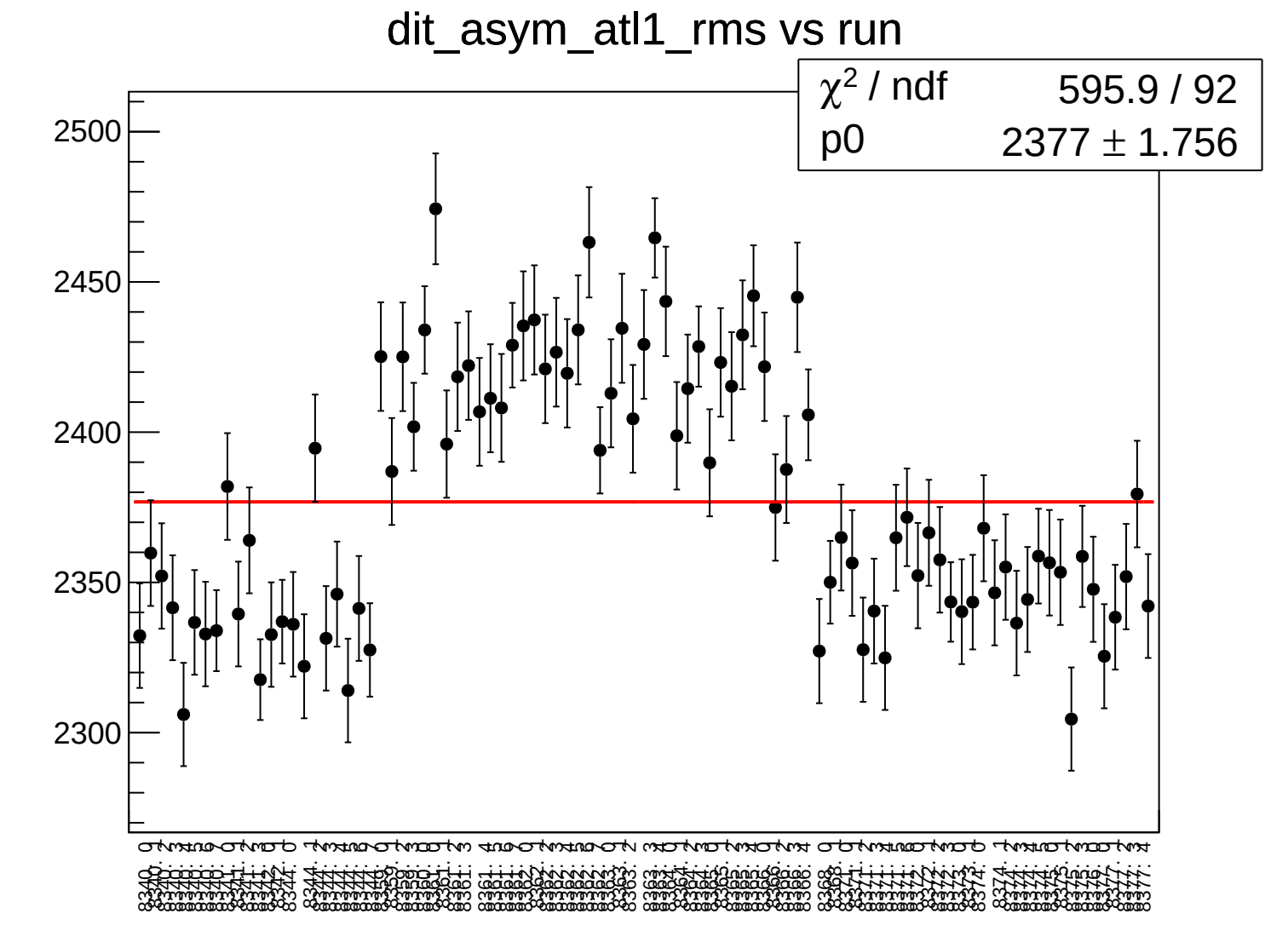
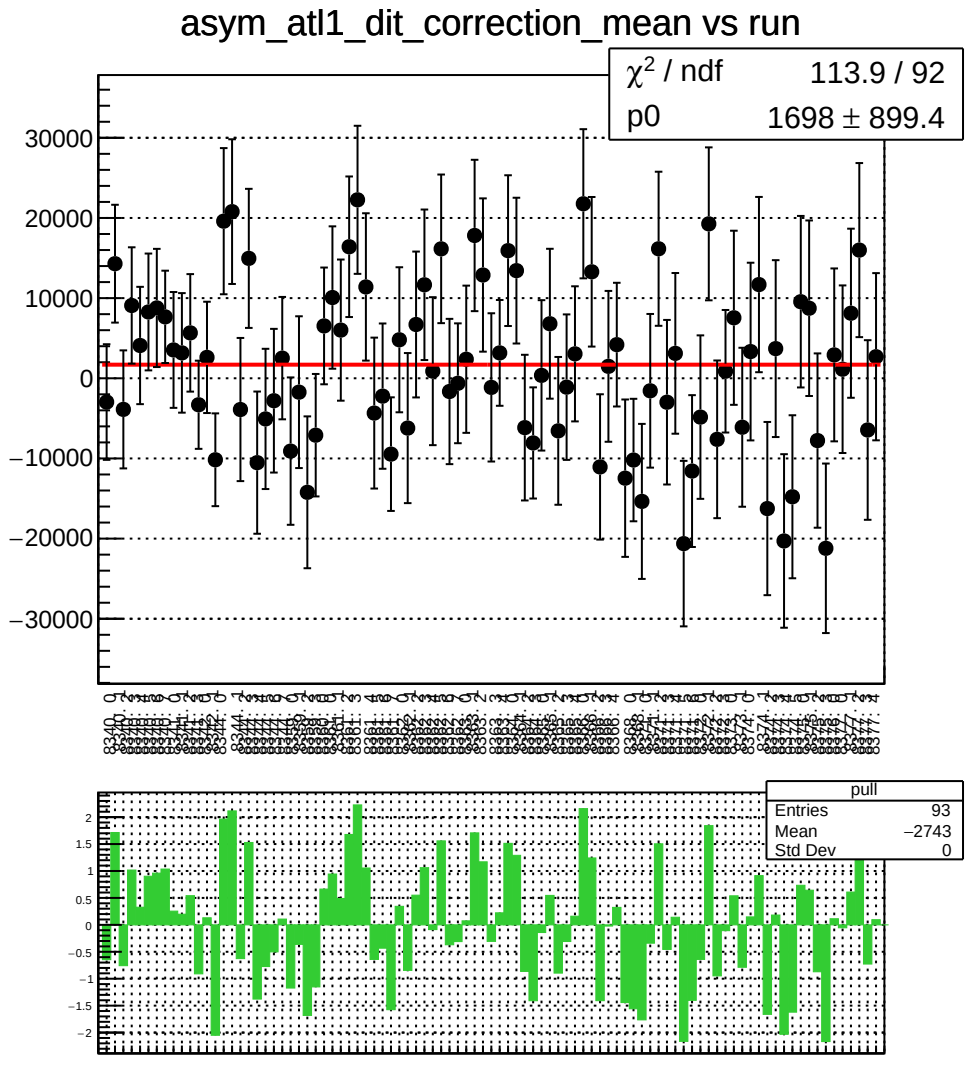
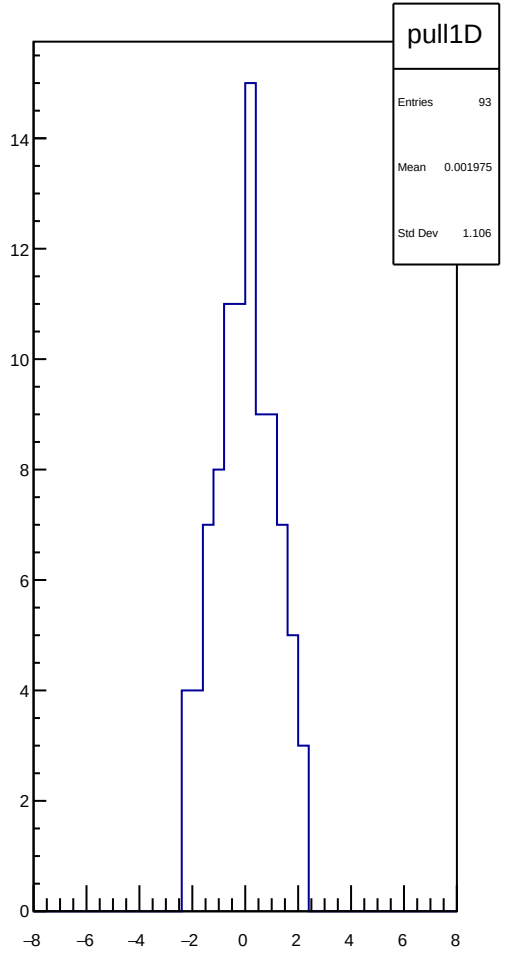
2
4
6
8


dit_asym_atl1_rms vs run
χ² / ndf 595.9 / 92
p0 2377 ± 1.756
2500
2450
2400
2350
2300


asym_atl1_dit_correction_mean vs run
χ² / ndf 113.9 / 92
p0 1698 ± 899.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −2743
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.001975
Std Dev 1.106
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10
8
6
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−4
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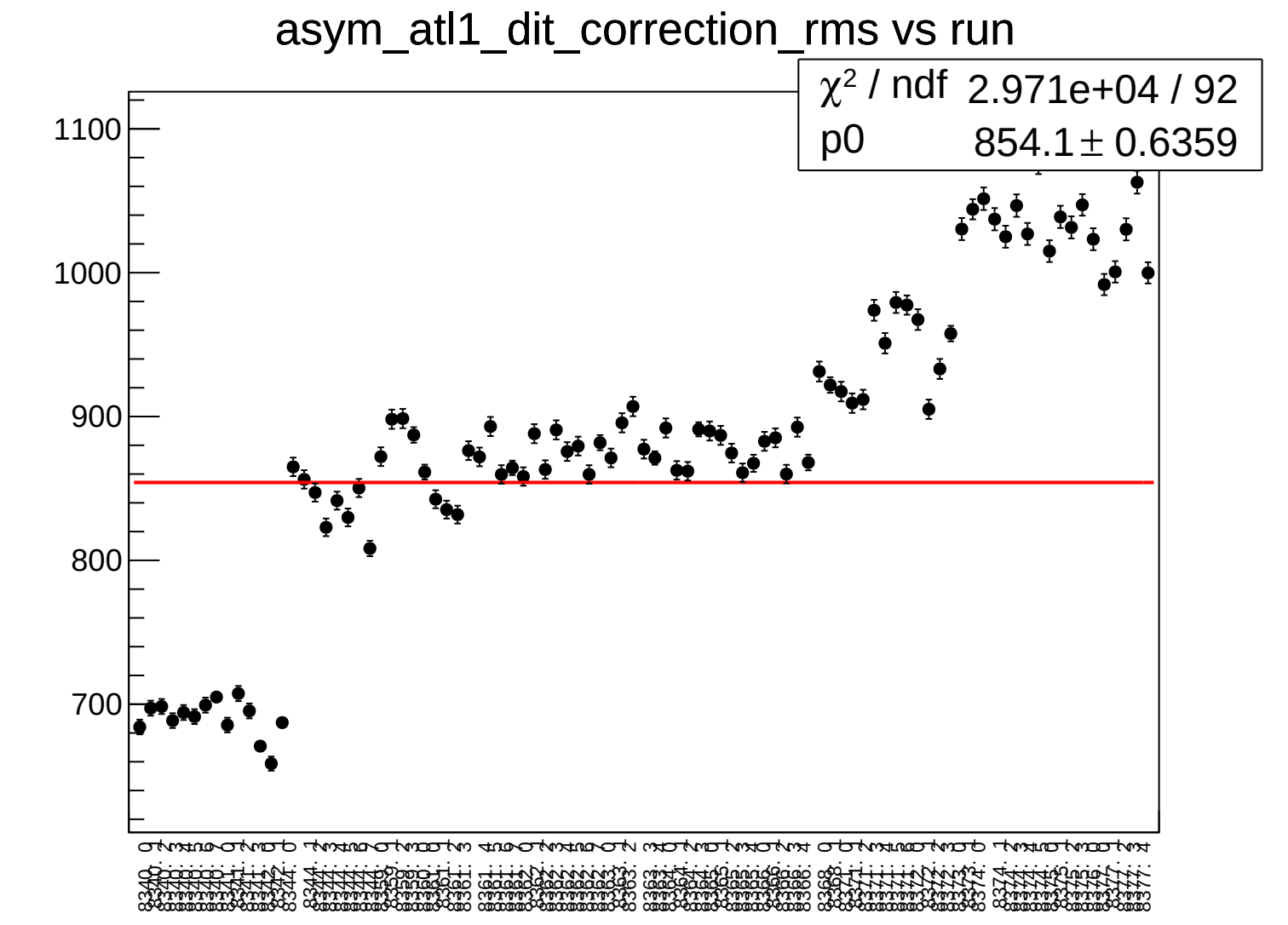
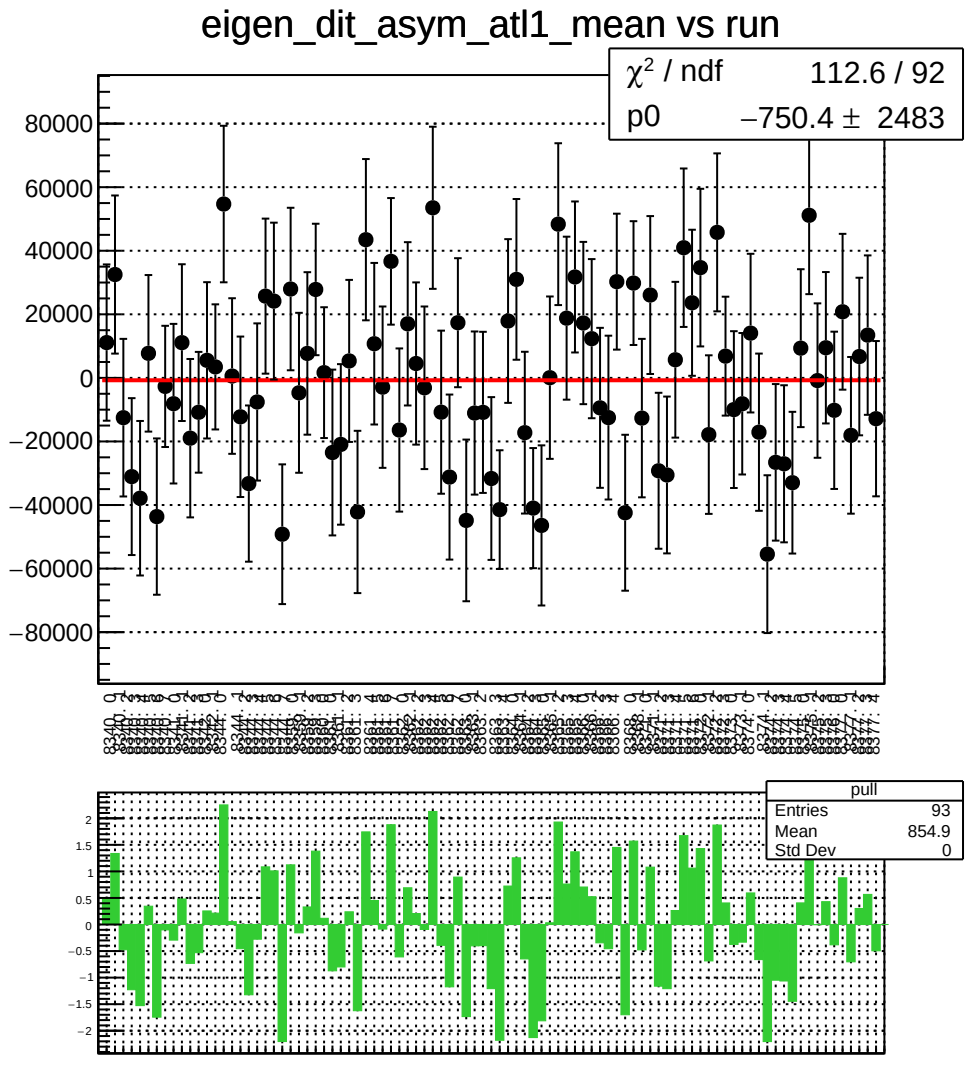
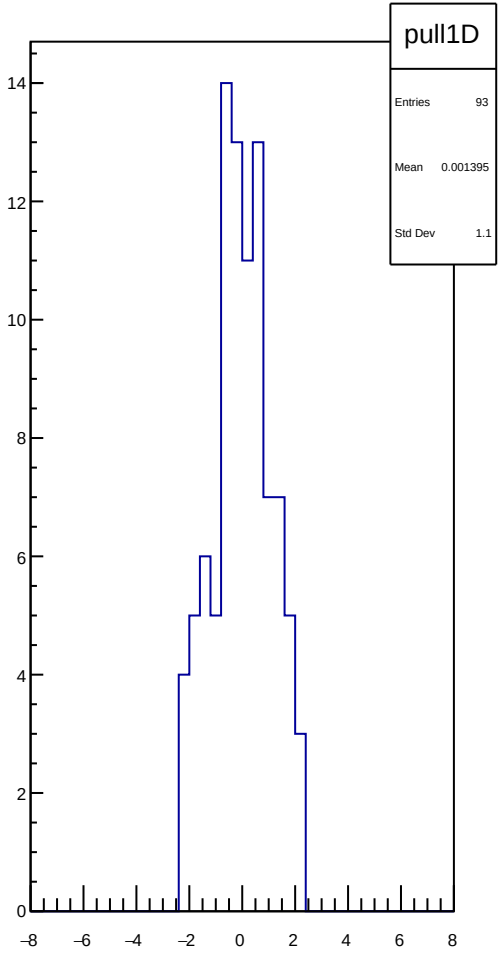
0
2
4
6
8


asym_atl1_dit_correction_rms vs run
χ² / ndf 2.971e+04 / 92
p0 854.1 ± 0.6359
1100
1000
900
800
700


eigen_dit_asym_atl1_mean vs run
χ² / ndf 112.6 / 92
p0 −750.4 ± 2483
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 854.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.001395
Std Dev 1.1
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12
10
8
6
4
2
0
−8
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−4
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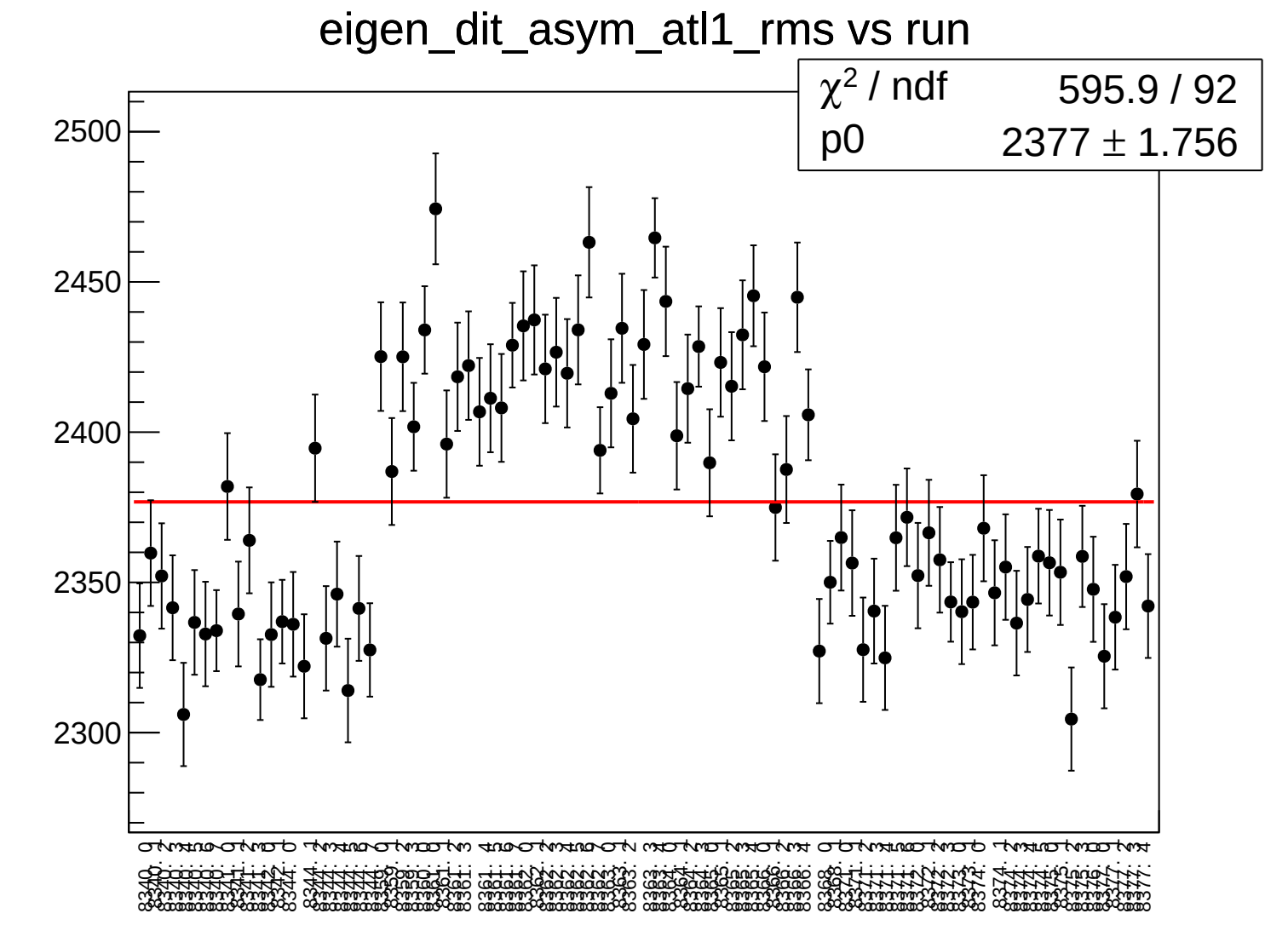
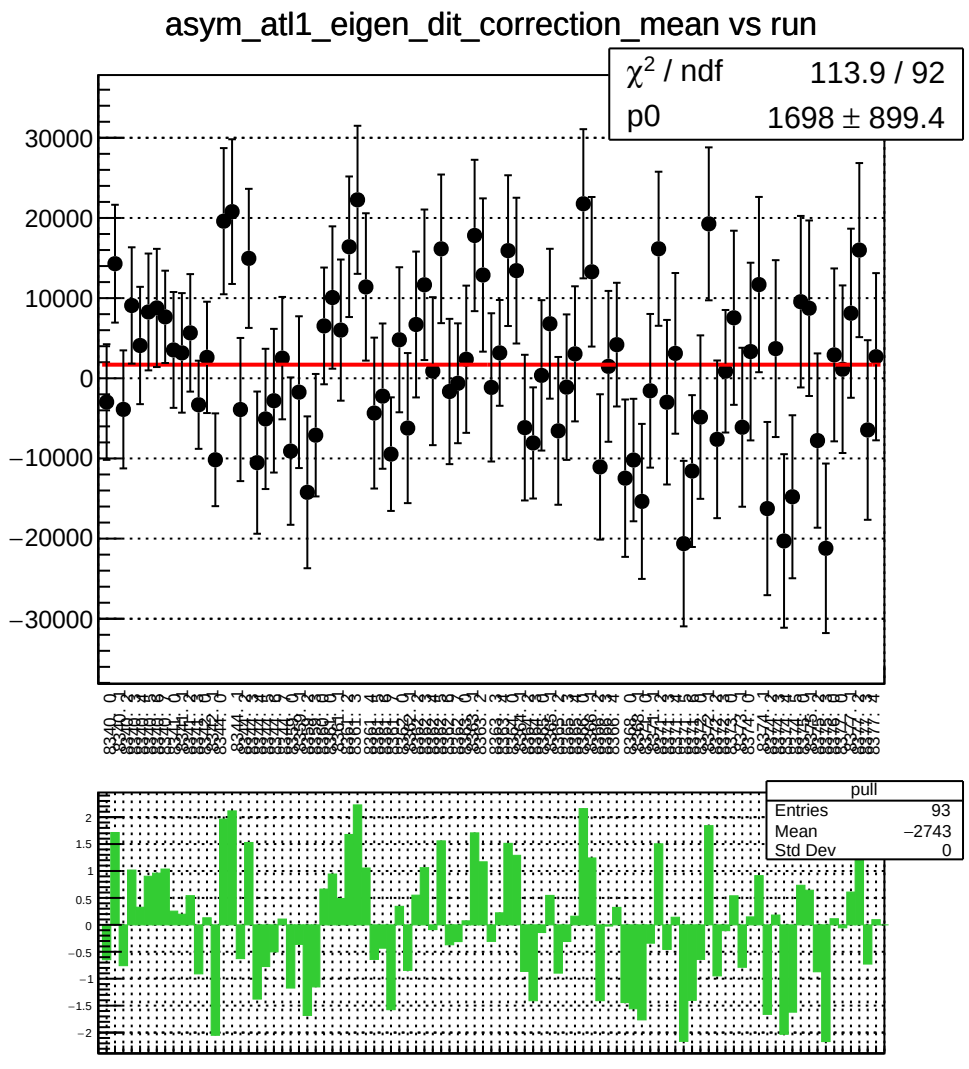
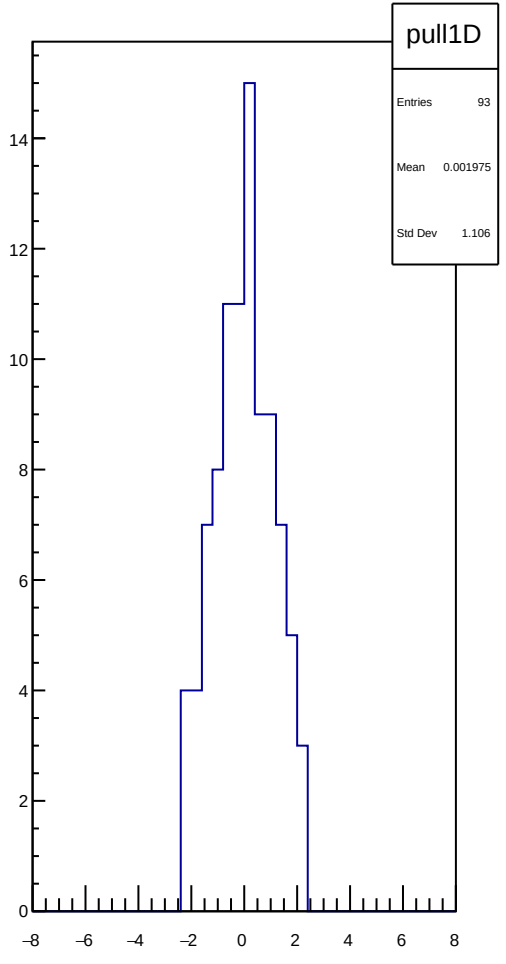
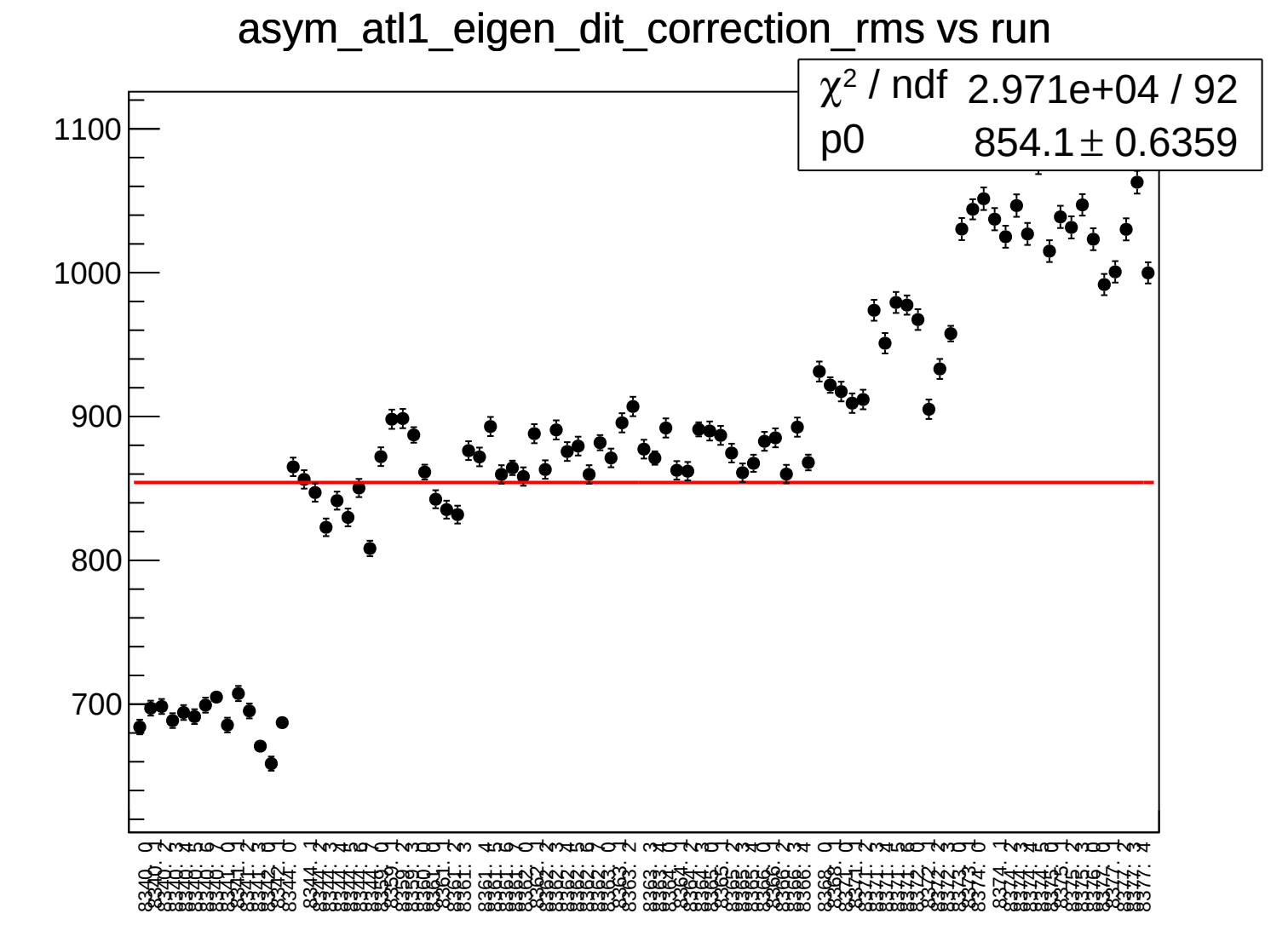
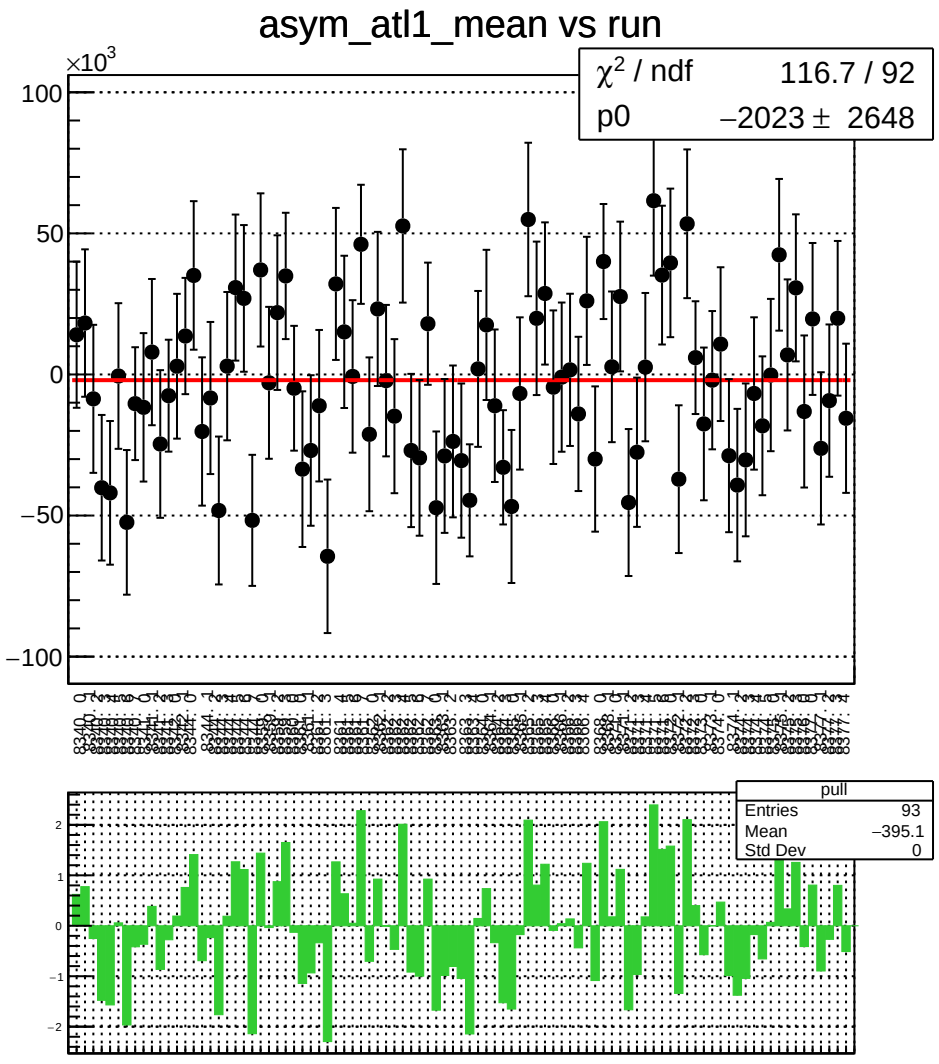
2
4
6
8

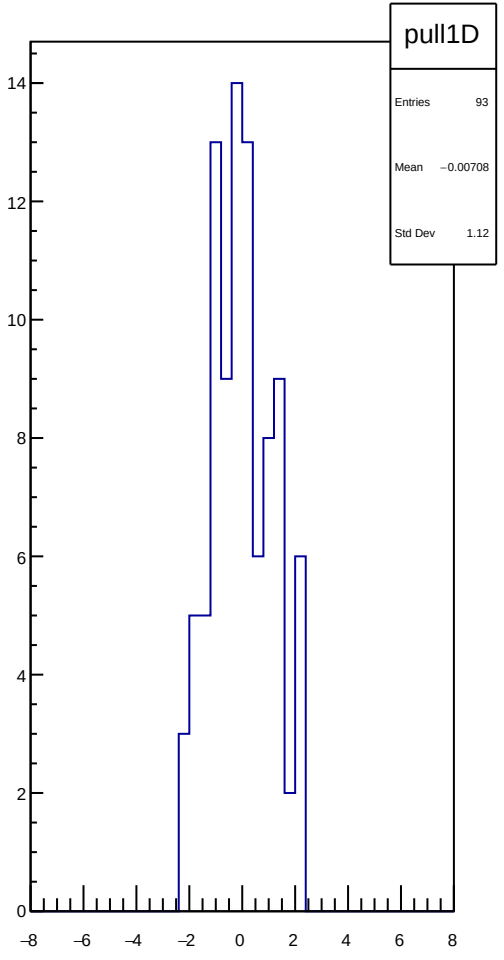

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 595.9 / 92
p0 2377 ± 1.756
2500
2450
2400
2350
2300

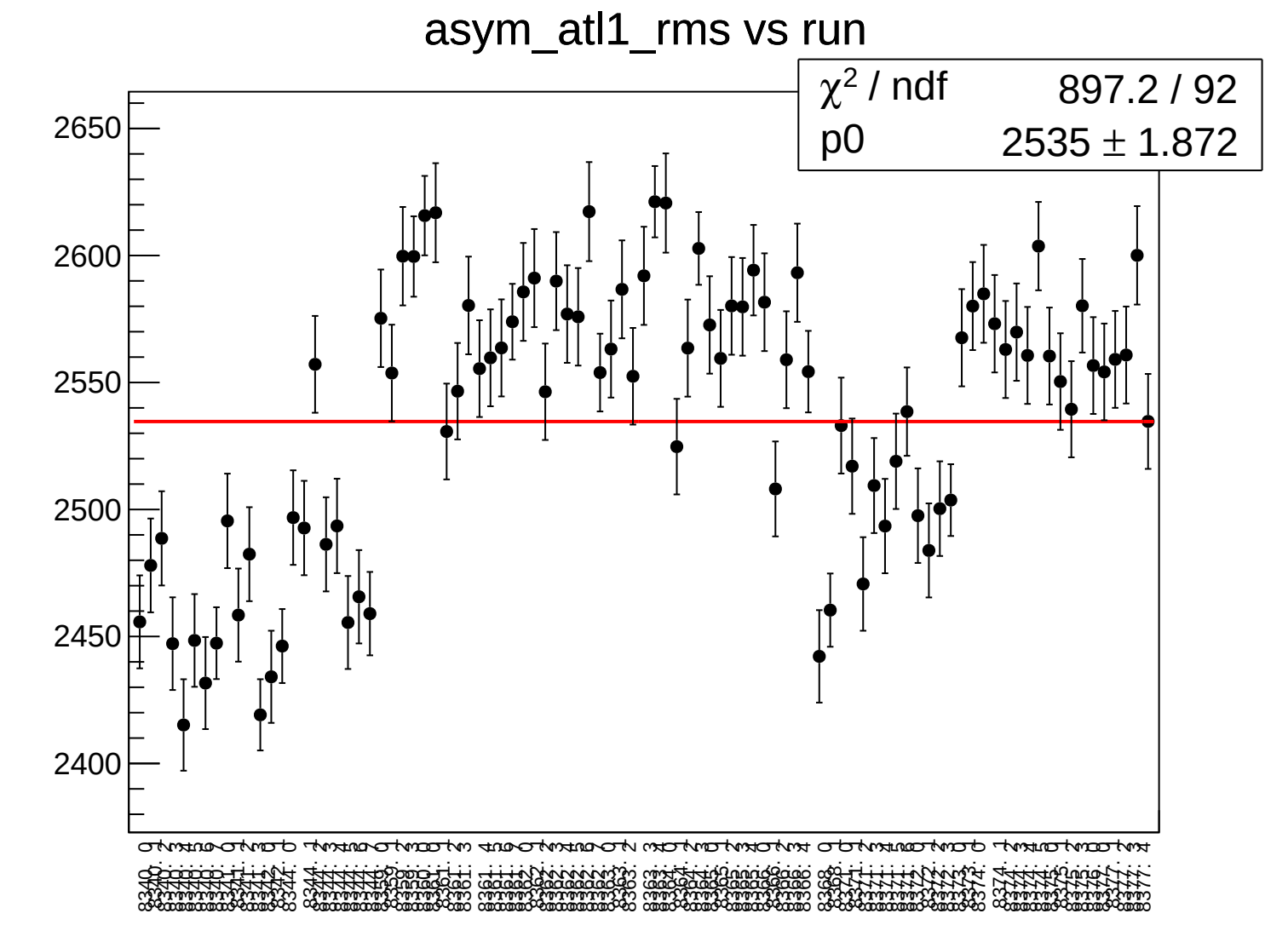

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 113.9 / 92
p0 1698 ± 899.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −2743
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

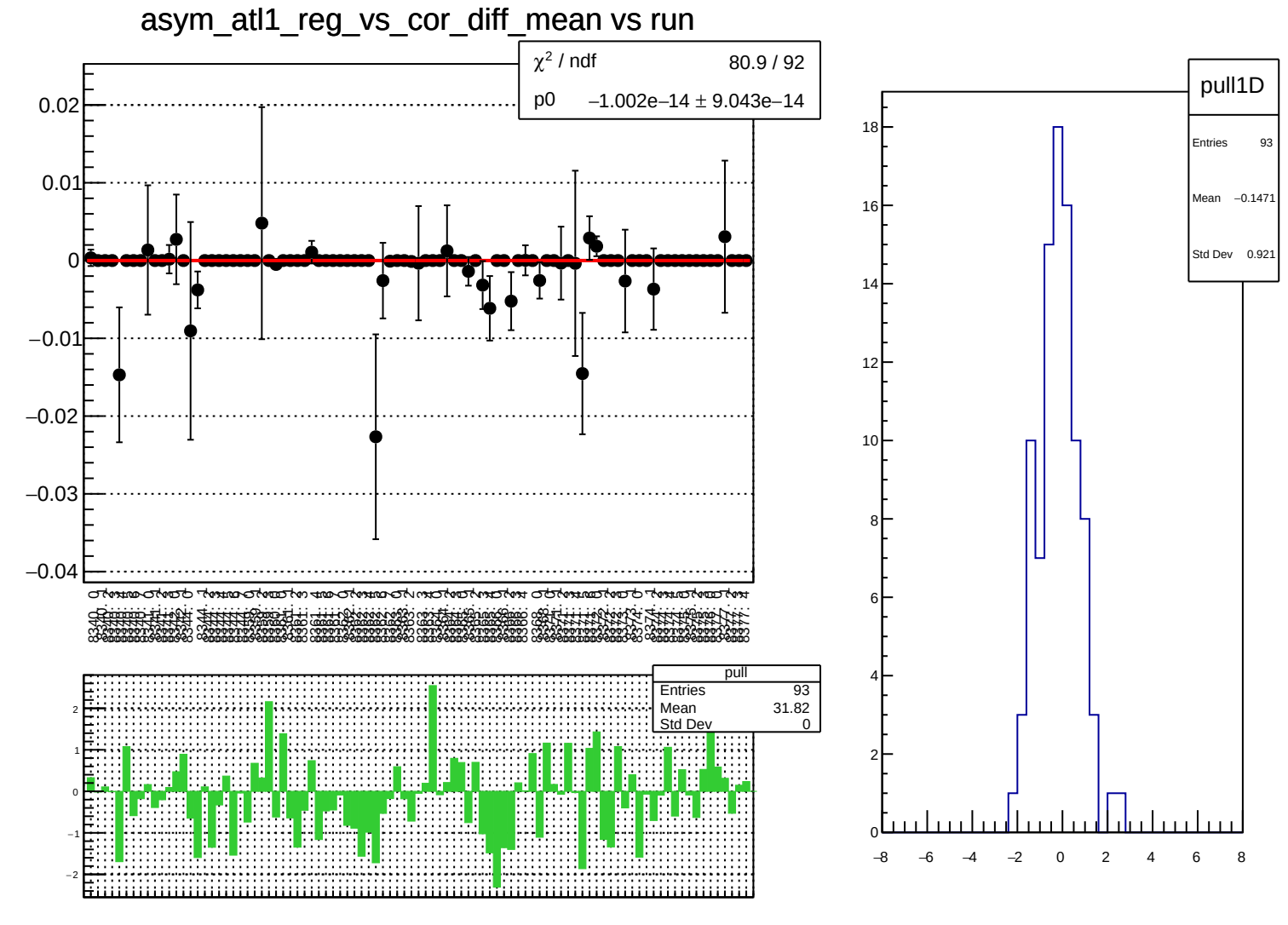

pull1D
Entries 93
Mean 0.001975
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

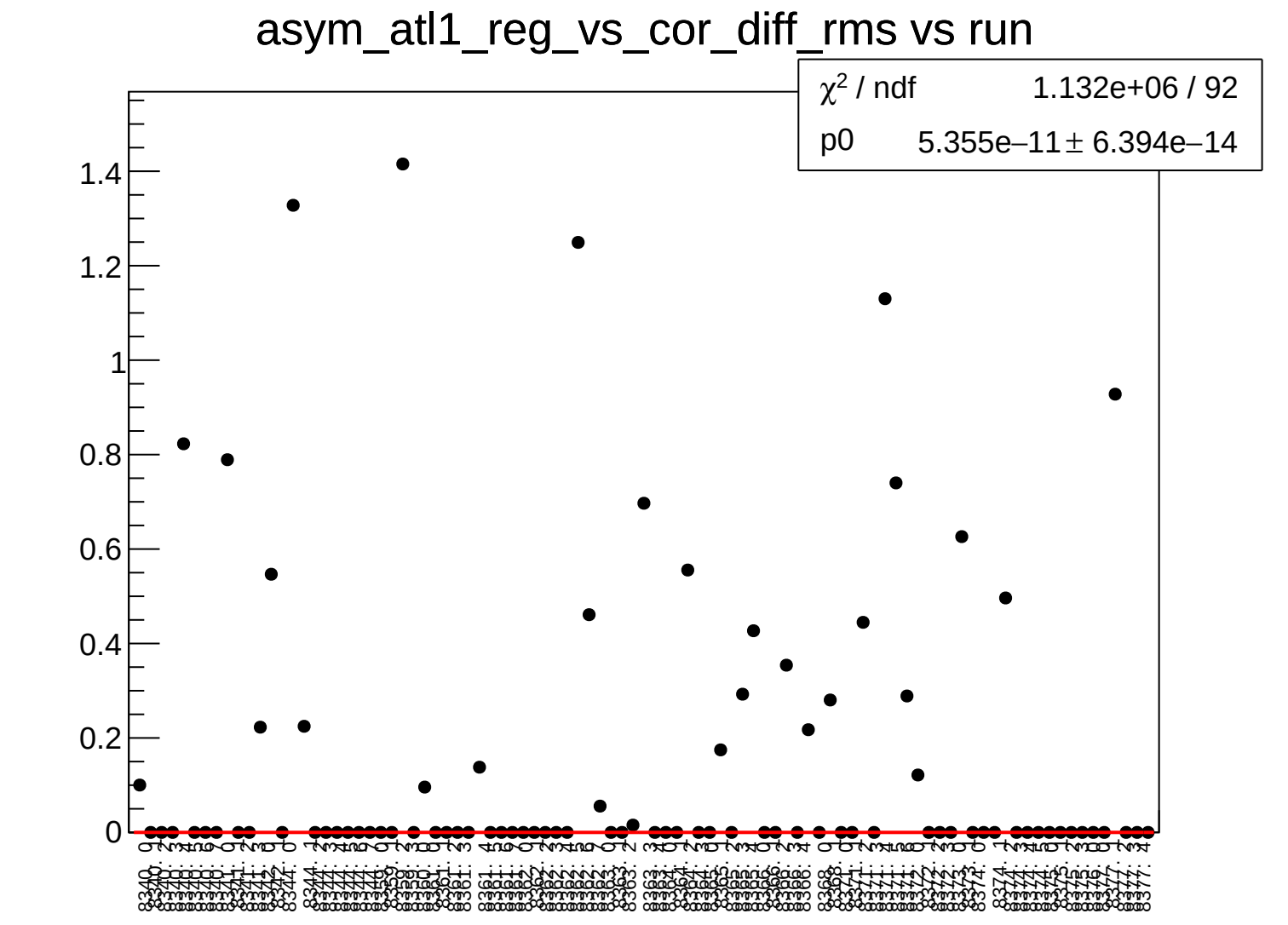

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.971e+04 / 92
p0 854.1 ± 0.6359
1100
1000
900
800
700

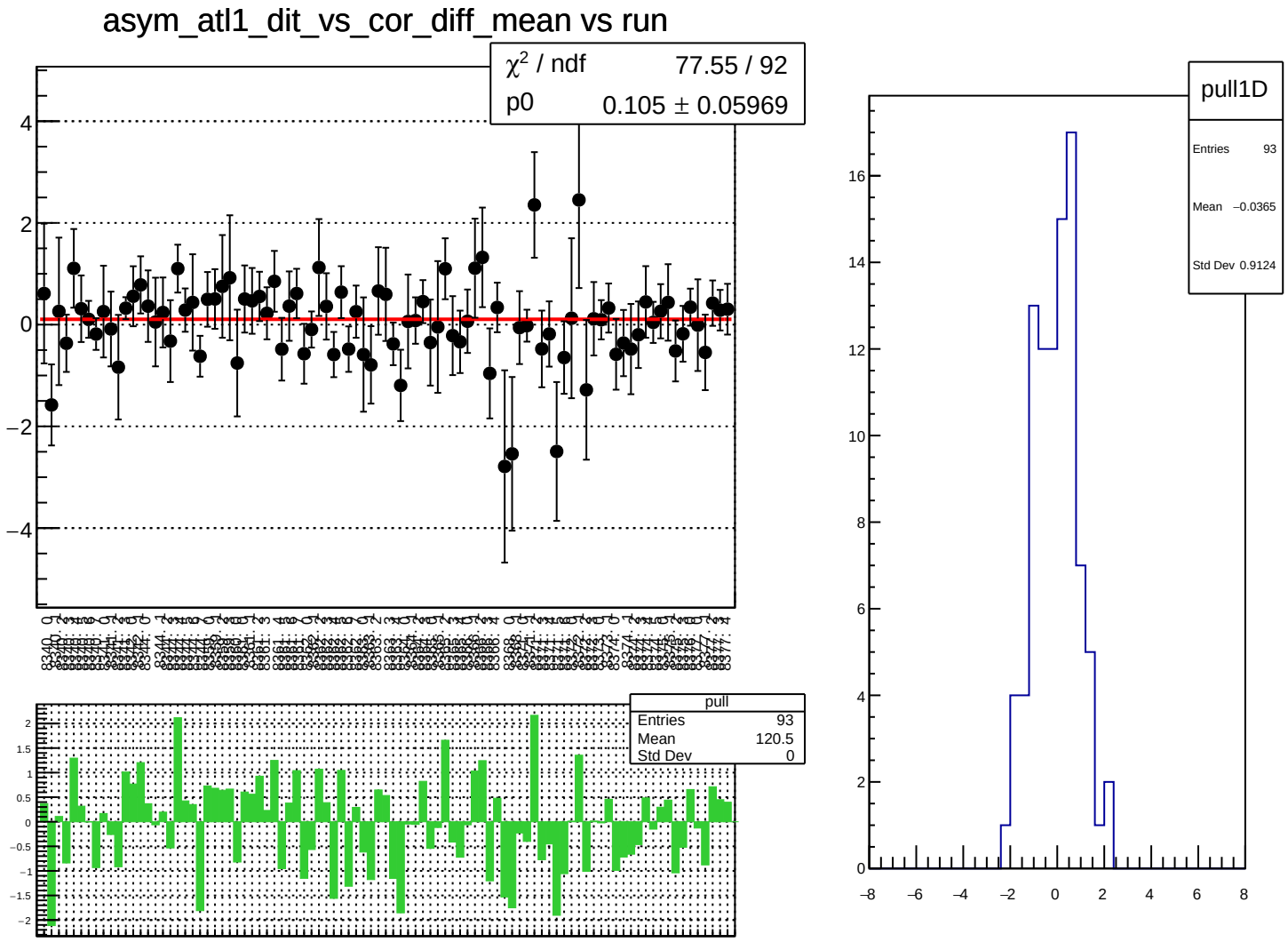

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 116.7 / 92
p0 −2023 ± 2648
pull
Entries 93
Mean −395.1
Std Dev 0
2
1
0
−1
−2

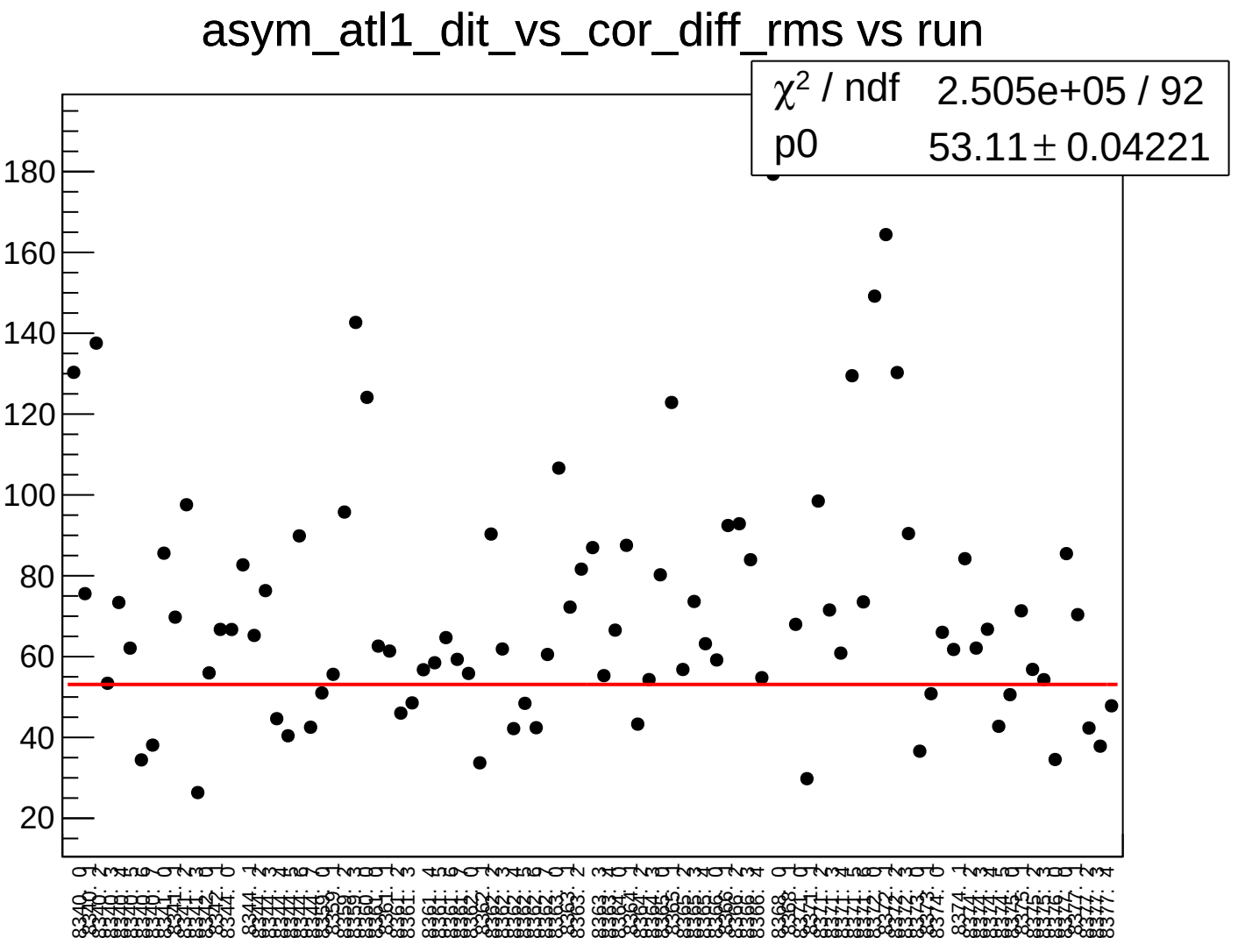

pull1D
Entries 93
Mean −0.00708
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

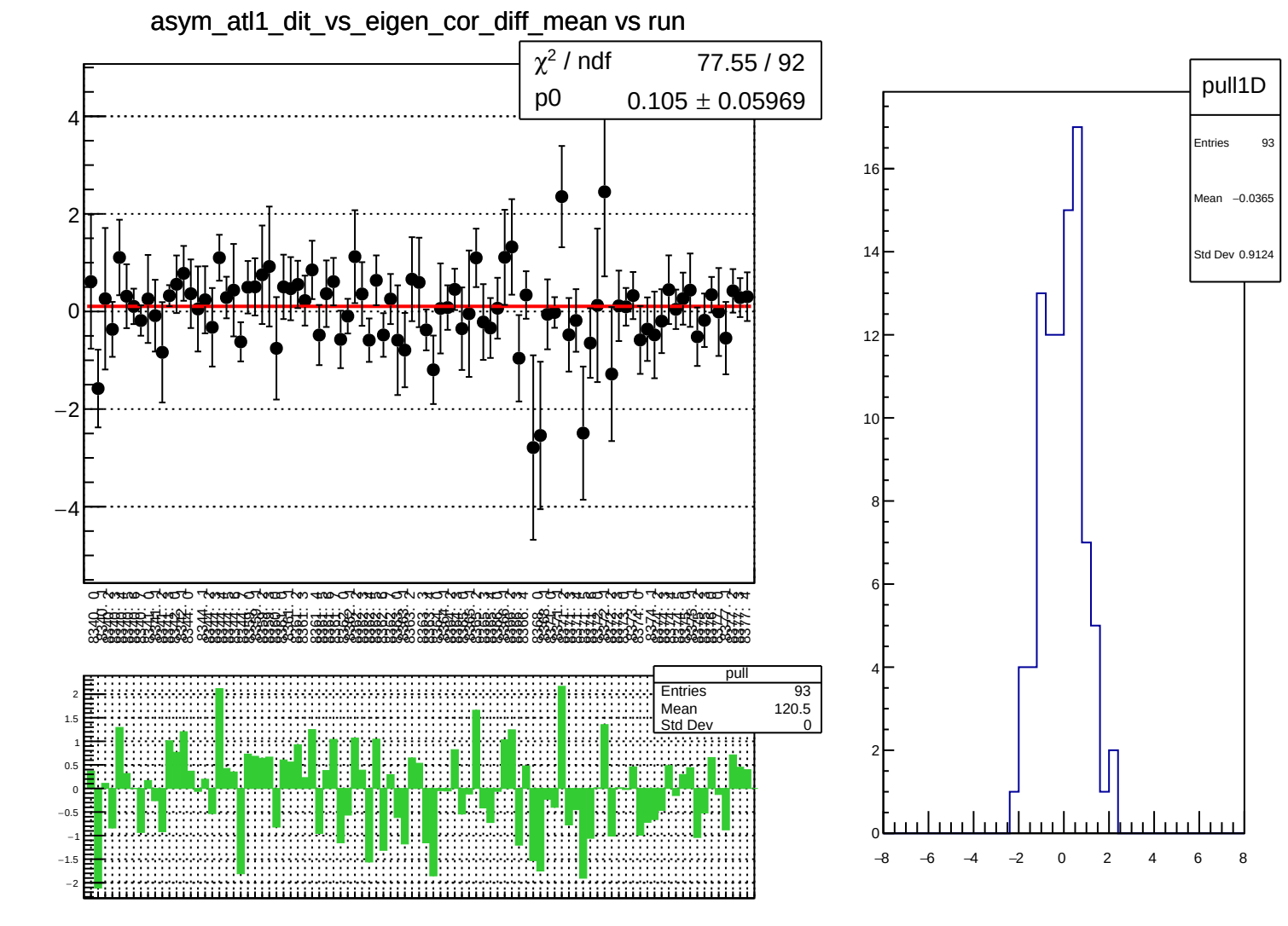

asym_atl1_rms vs run
χ² / ndf 897.2 / 92
p0 2535 ± 1.872
2650
2600
2550
2500
2450
2400

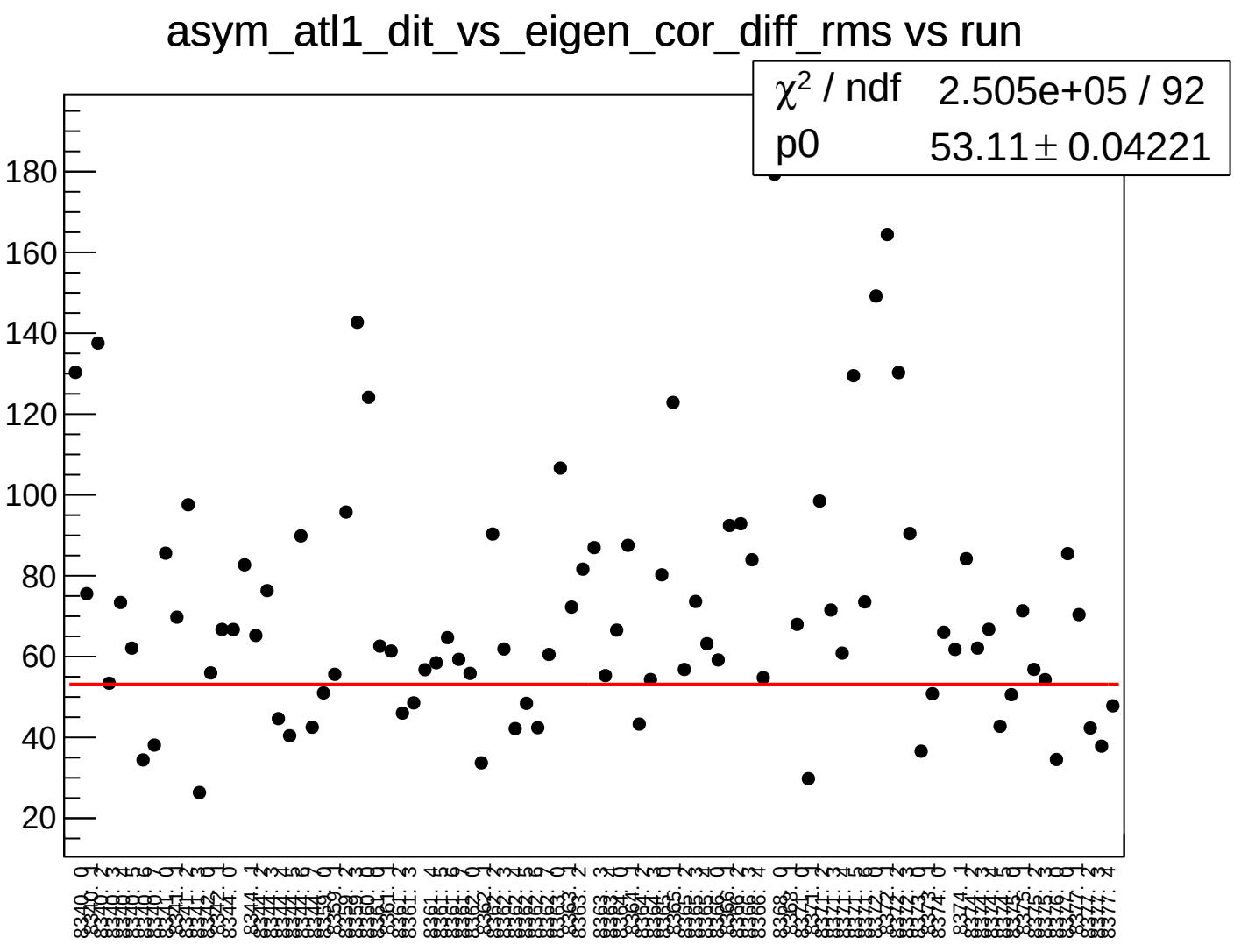

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 80.9 / 92
p0 −1.002e−14 ± 9.043e−14
pull
Entries 93
Mean 31.82
Std Dev 0
pull1D
Entries 93
Mean −0.1471
Std Dev 0.921

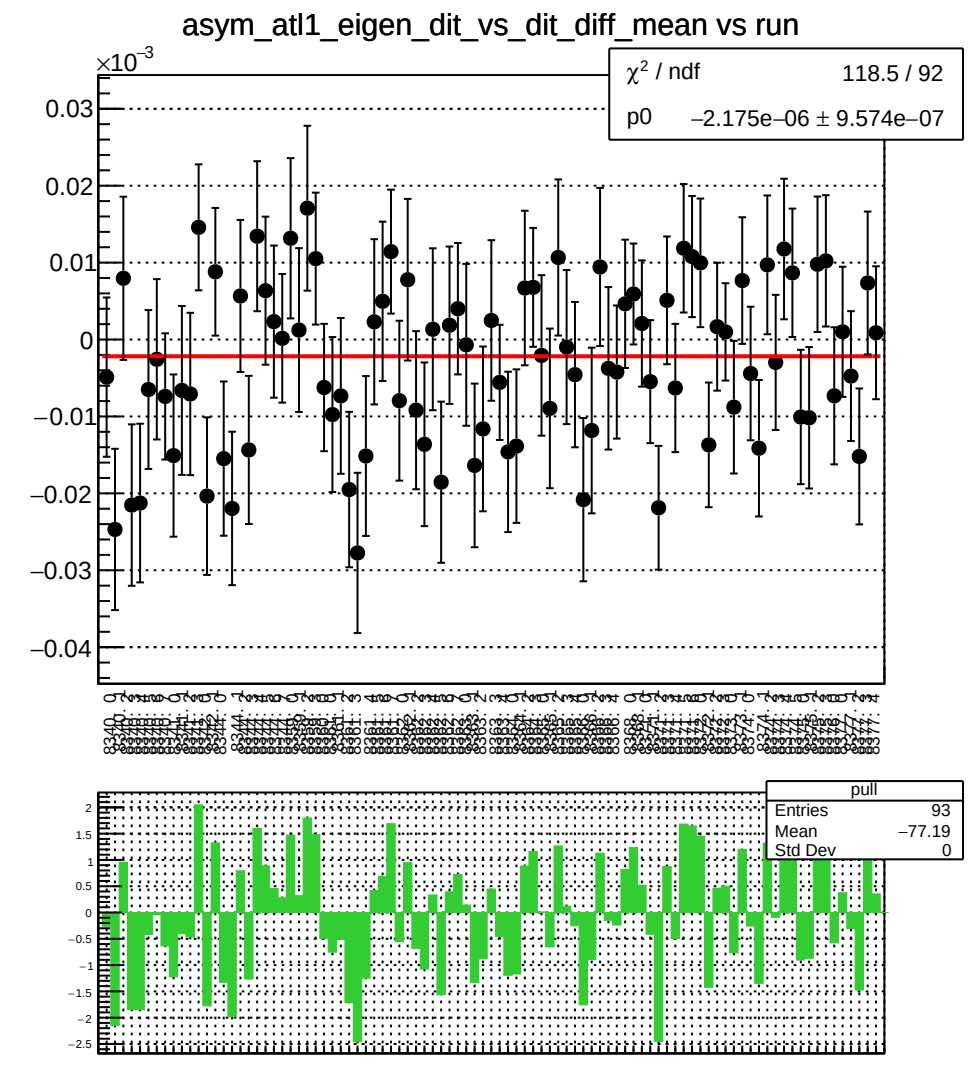

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.132e+06 / 92
p0 5.355e−11 ± 6.394e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

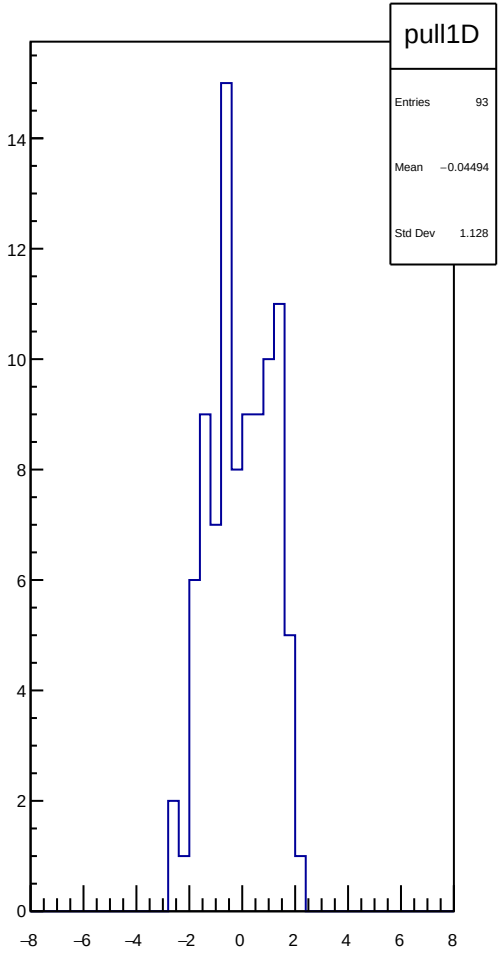

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 77.55 / 92
p0 0.105 ± 0.05969
pull
Entries 93
Mean 120.5
Std Dev 0
pull1D
Entries 93
Mean −0.0365
Std Dev 0.9124

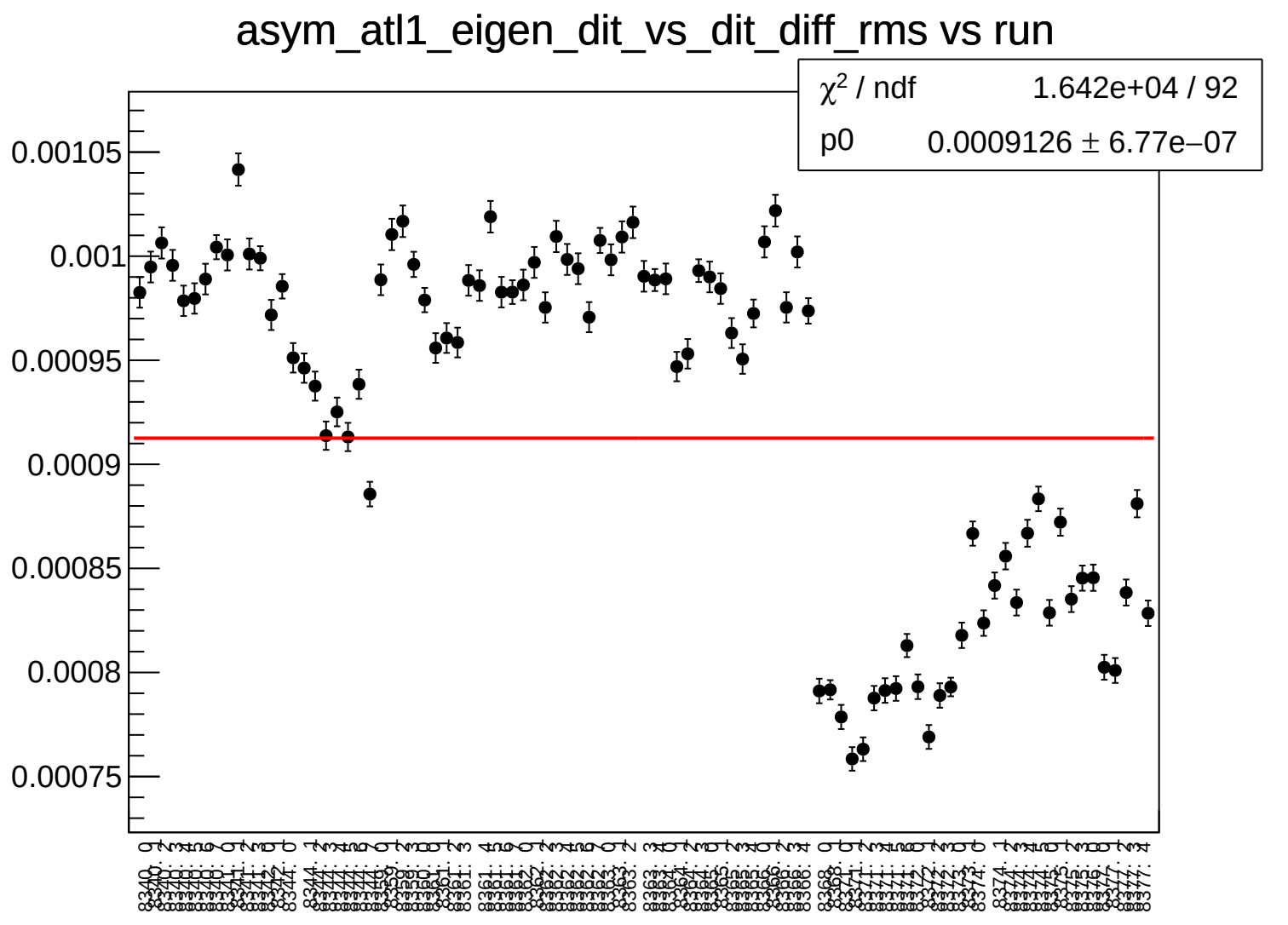

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 92
p0 53.11 ± 0.04221
180
160
140
120
100
80
60
40
20

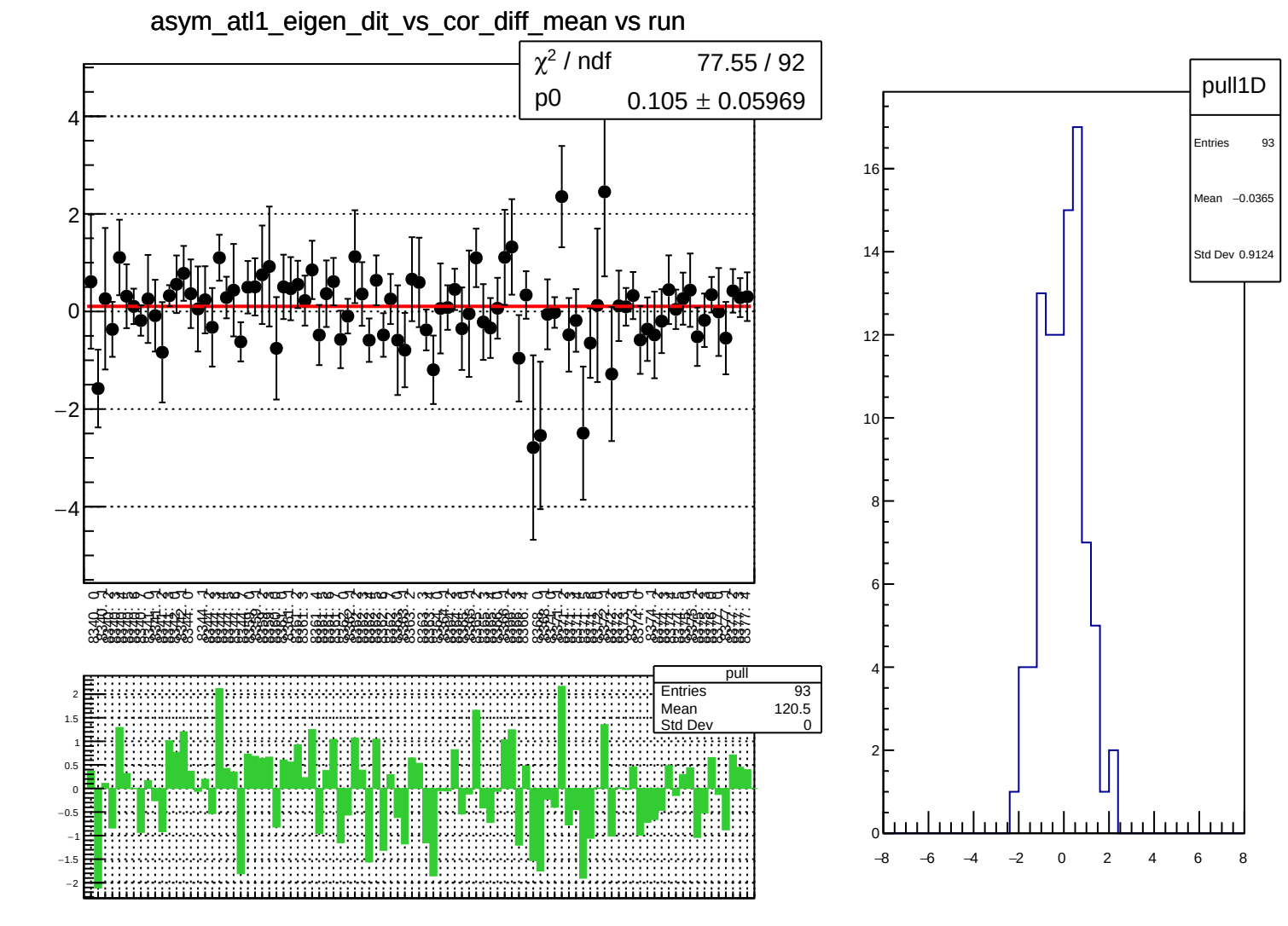

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.55 / 92
p0 0.105 ± 0.05969
pull
Entries 93
Mean 120.5
Std Dev 0
pull1D
Entries 93
Mean −0.0365
Std Dev 0.9124

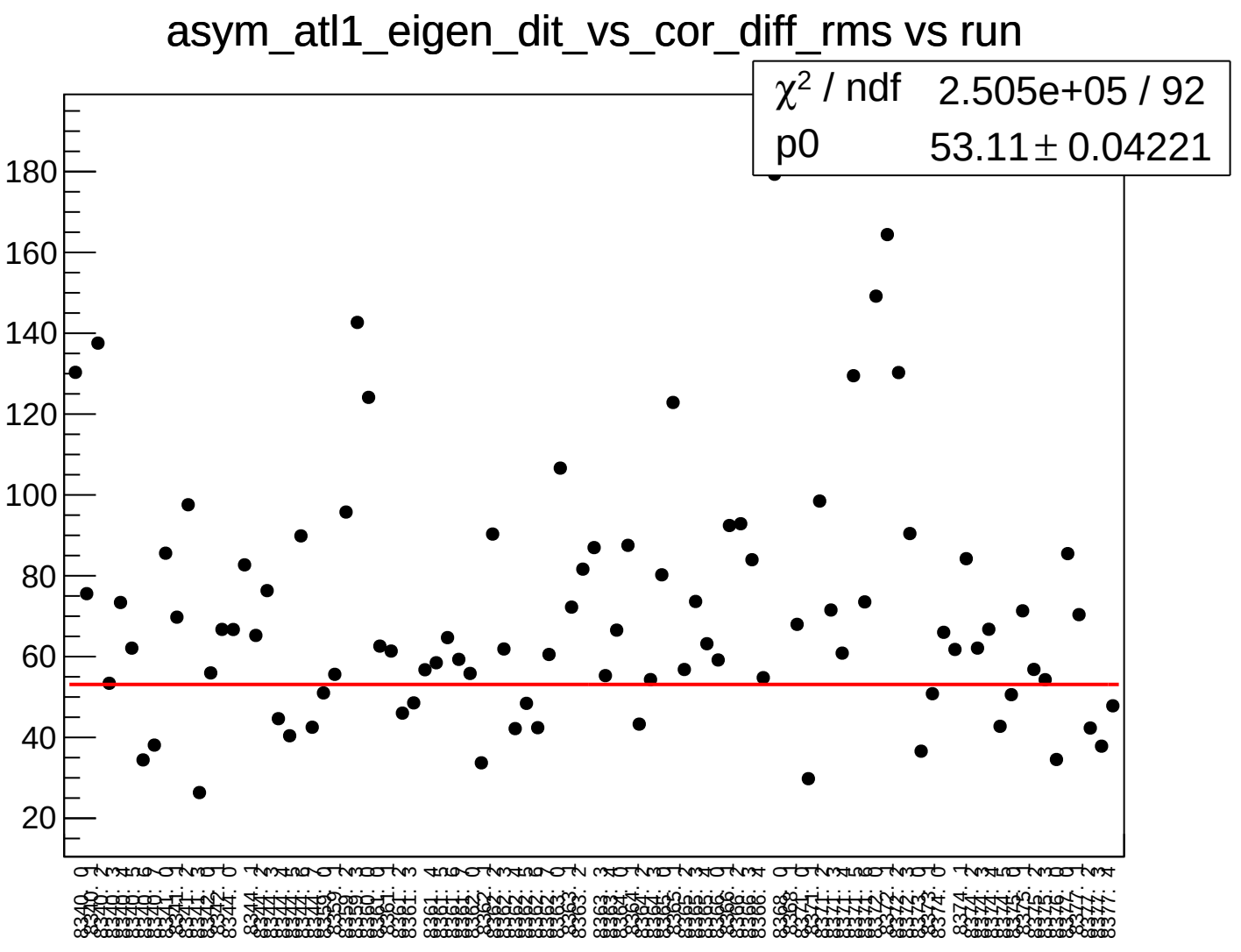

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.505e+05 / 92
p0 53.11 ± 0.04221
180
160
140
120
100
80
60
40
20

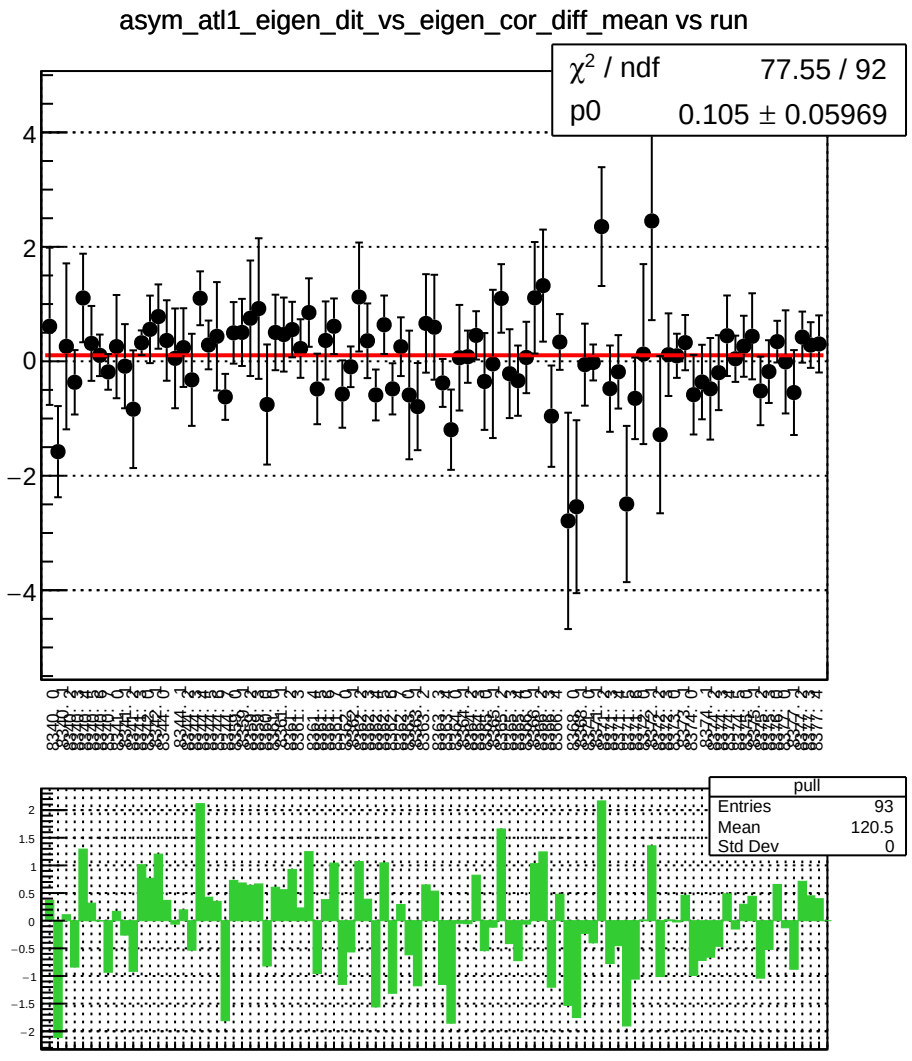

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.5 / 92
p0 −2.175e−06 ± 9.574e−07
pull
Entries 93
Mean −77.19
Std Dev 0

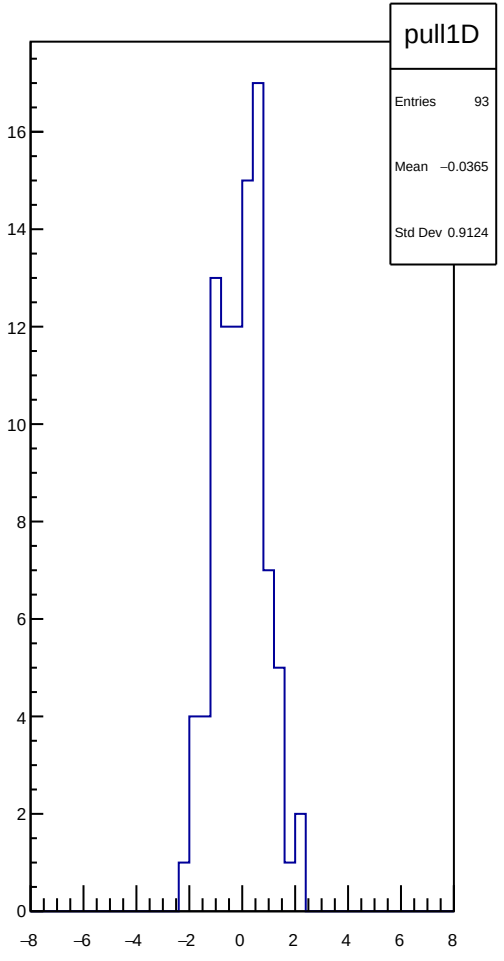

pull1D
Entries 93
Mean −0.04494
Std Dev 1.128

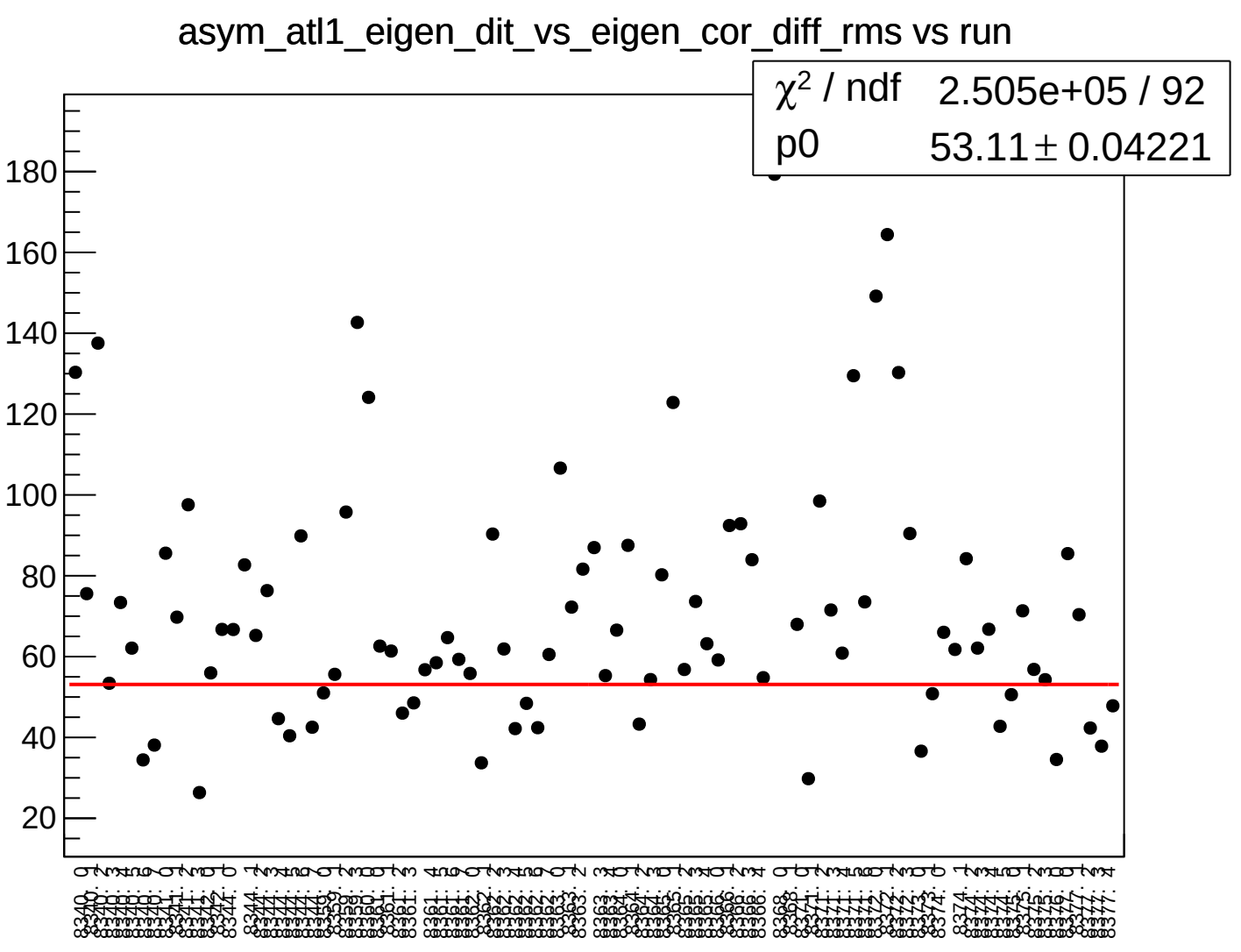

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.642e+04 / 92
p0 0.0009126 ± 6.77e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

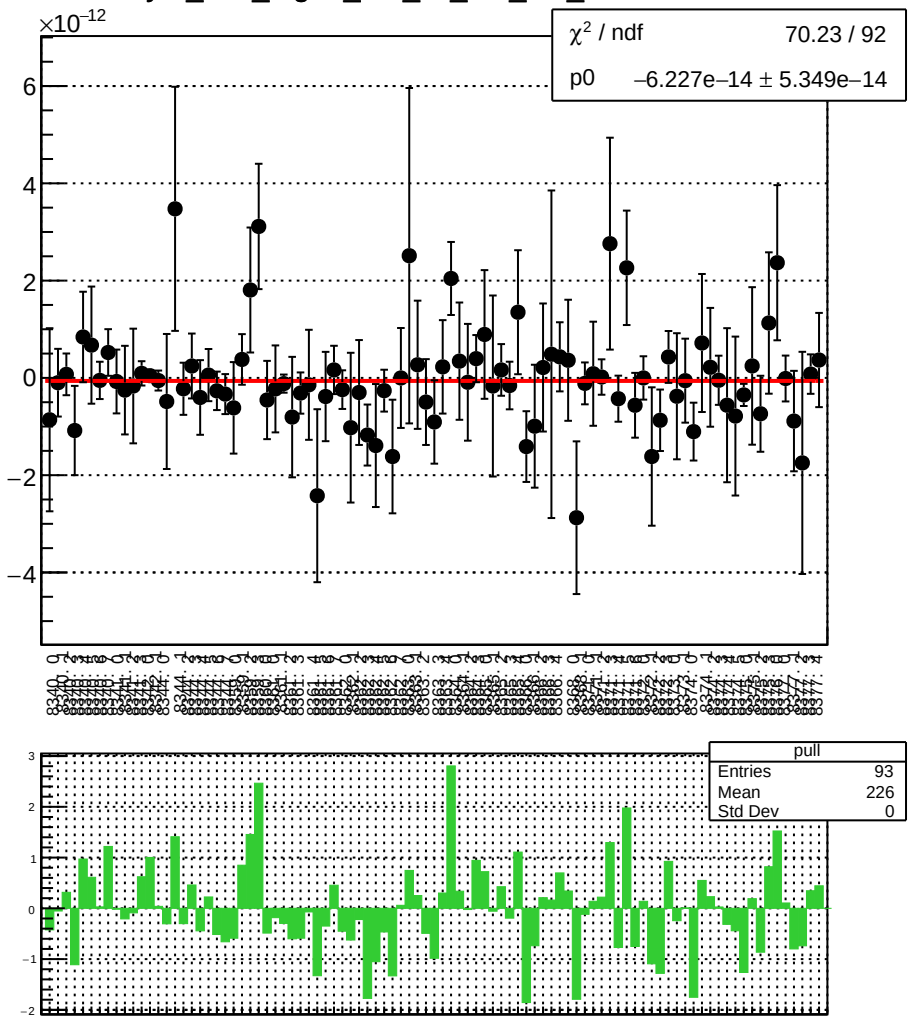

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.55 / 92
p0 0.105 ± 0.05969
pull
Entries 93
Mean 120.5
Std Dev 0
pull1D
Entries 93
Mean −0.0365
Std Dev 0.9124

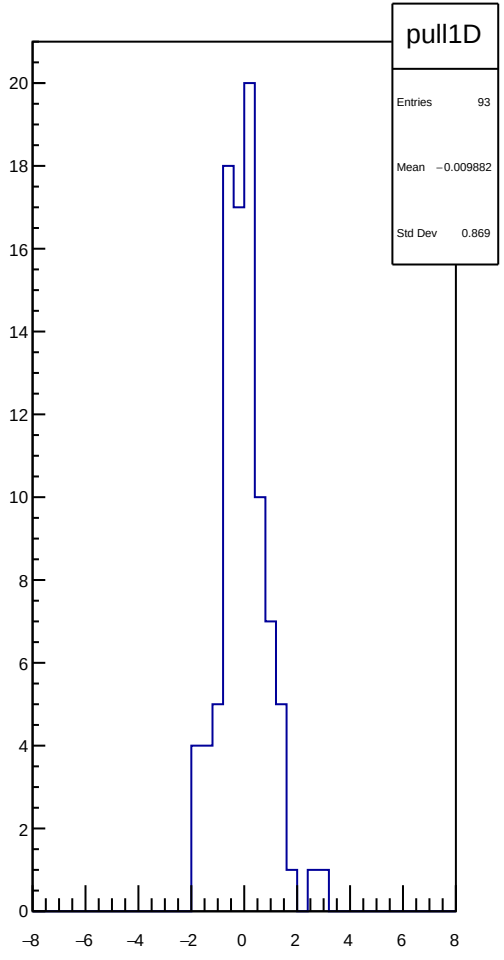

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 92
p0 53.11 ± 0.04221
180
160
140
120
100
80
60
40
20

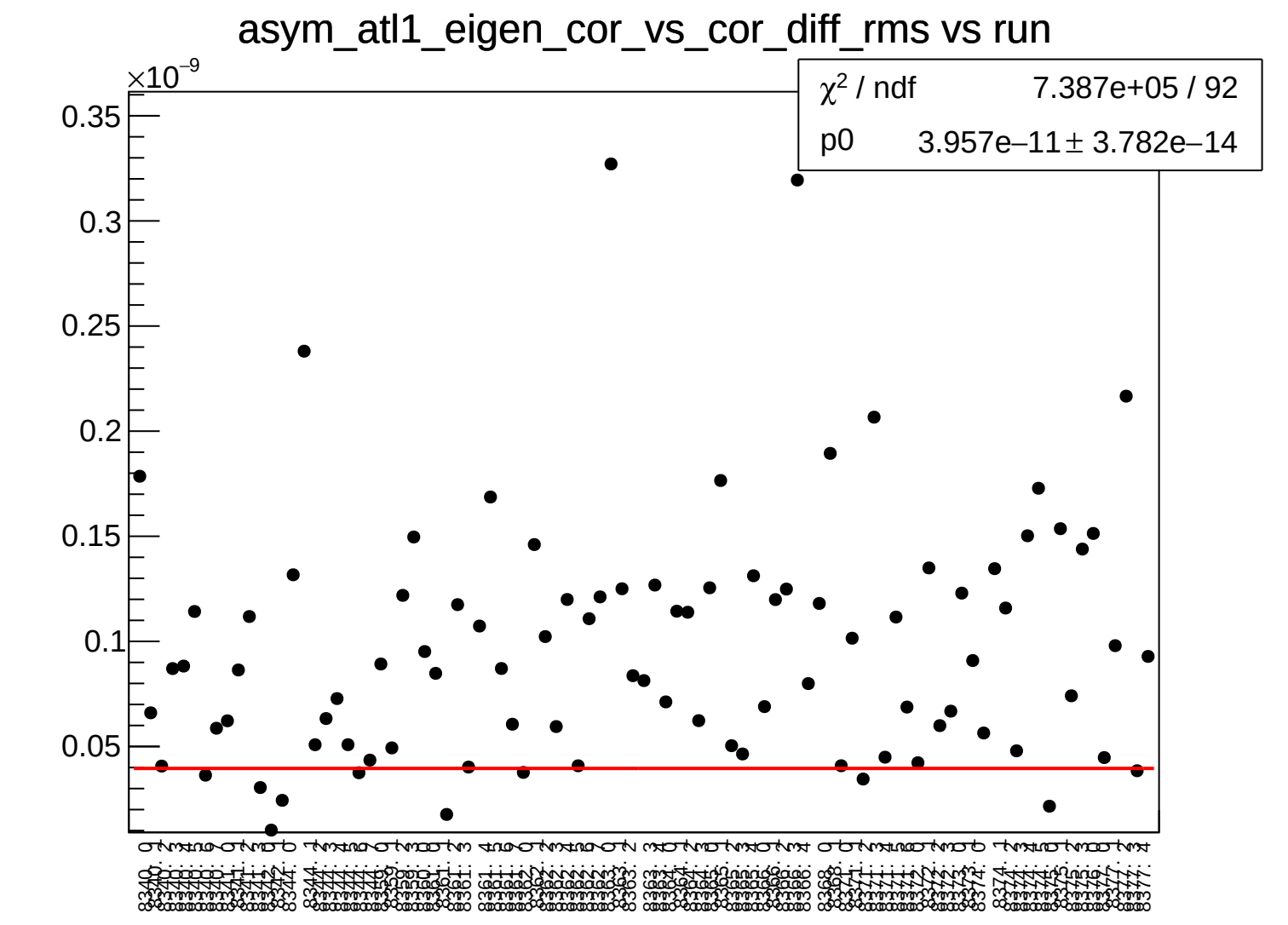

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.55 / 92
p0 0.105 ± 0.05969
pull
Entries 93
Mean 120.5
Std Dev 0

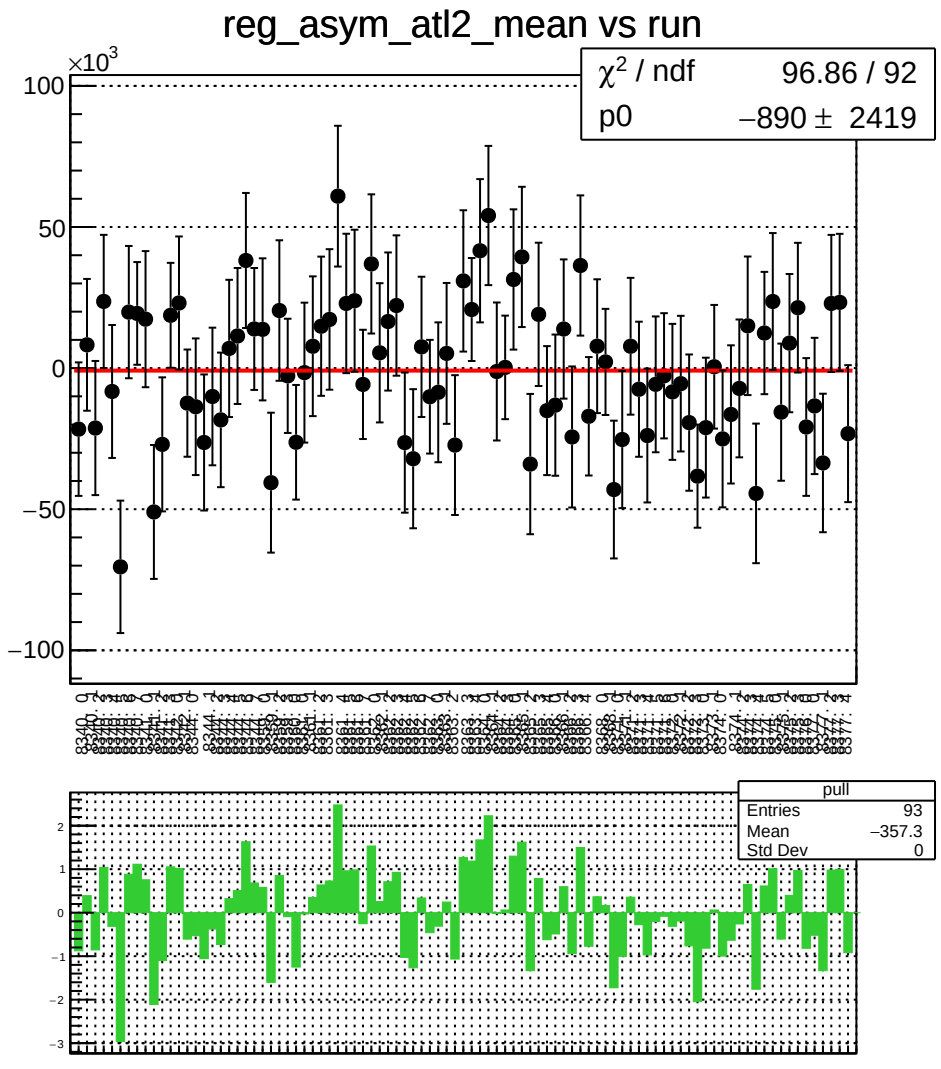

pull1D
Entries 93
Mean −0.0365
Std Dev 0.9124

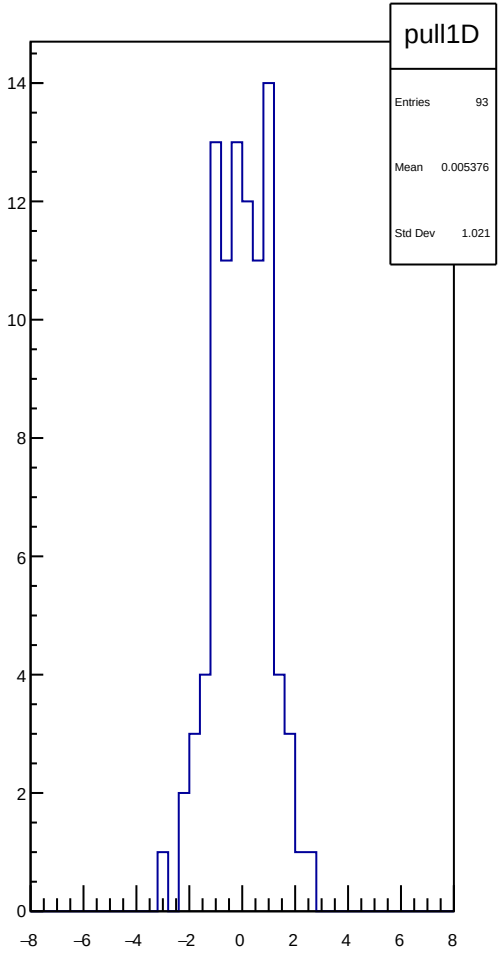

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.505e+05 / 92
p0 53.11 ± 0.04221
180
160
140
120
100
80
60
40
20

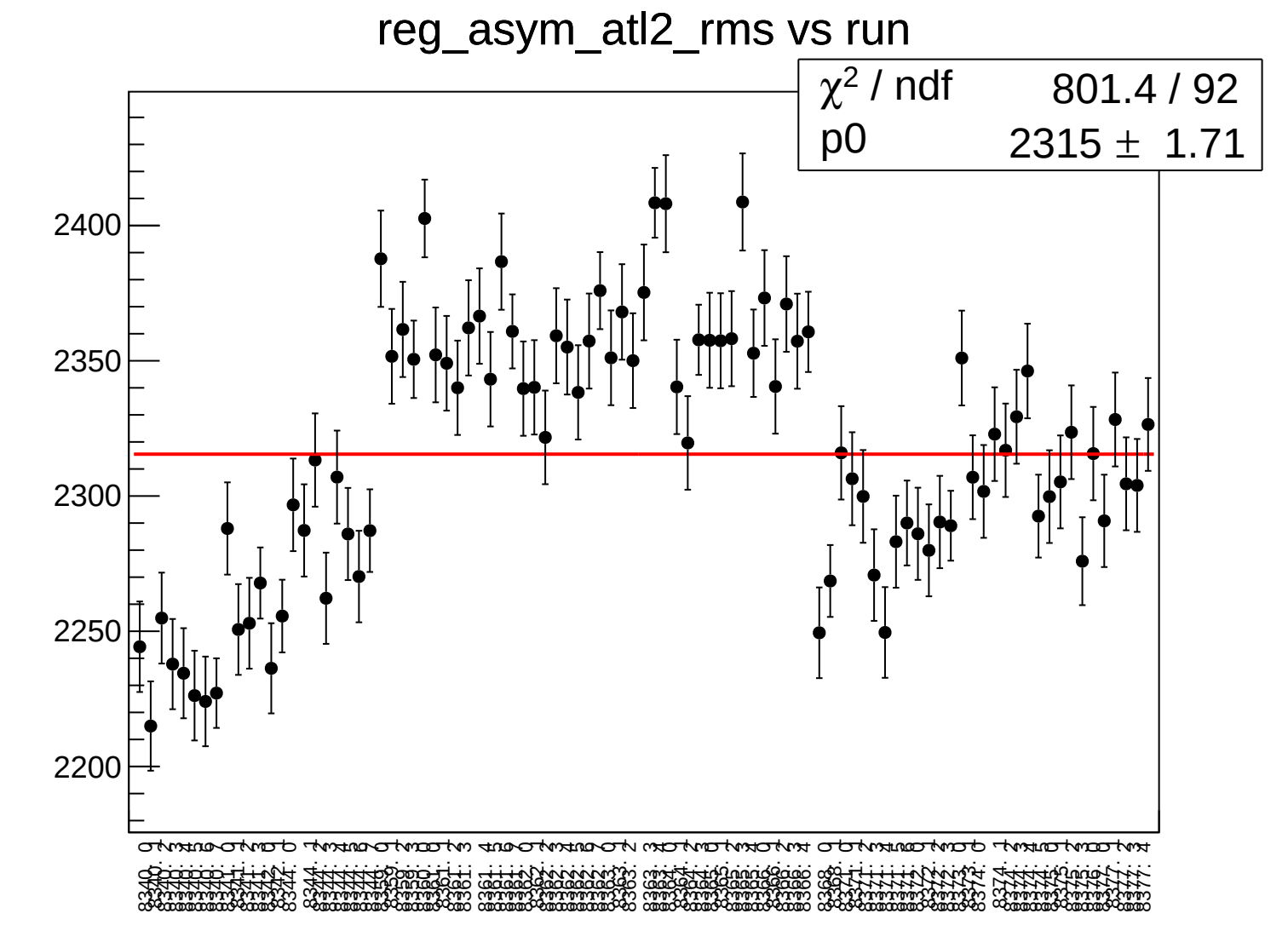

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.23 / 92
p0 −6.227e−14 ± 5.349e−14
pull
Entries 93
Mean 226
Std Dev 0

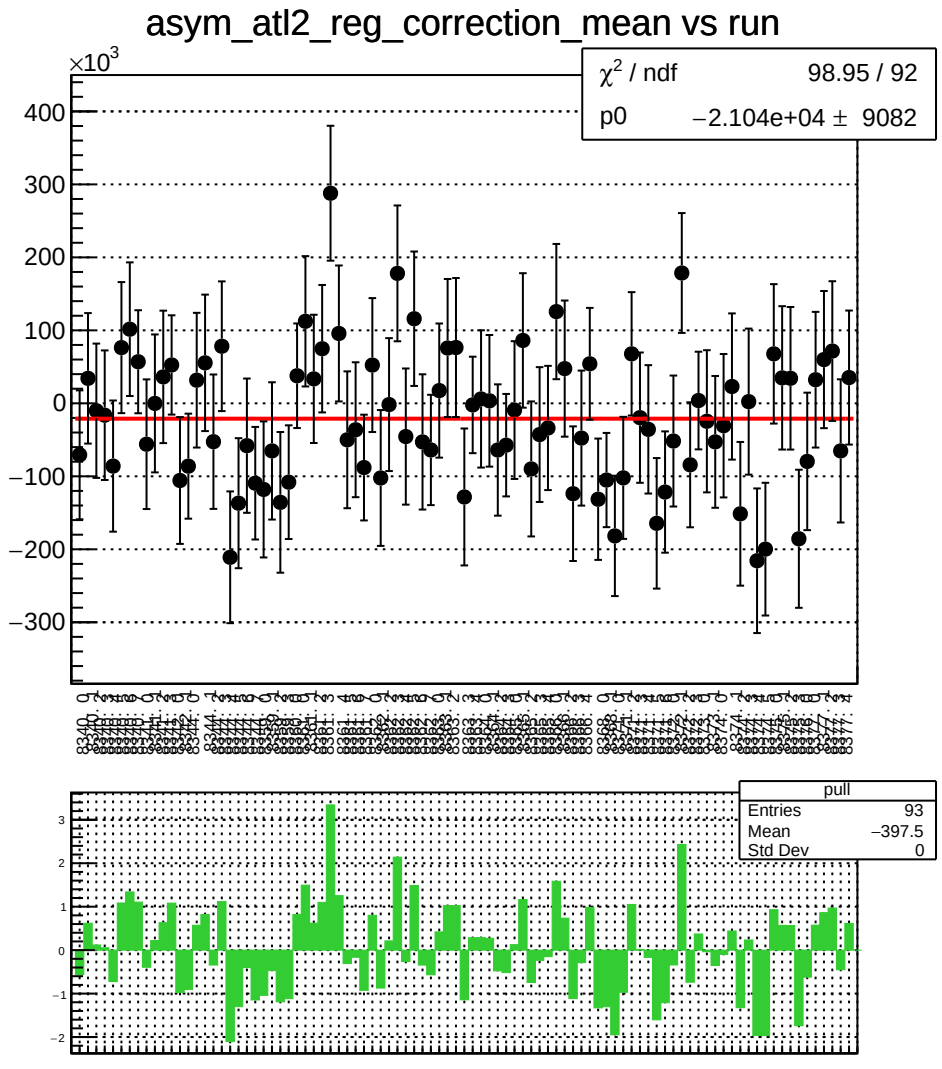

pull1D
Entries 93
Mean −0.009882
Std Dev 0.869

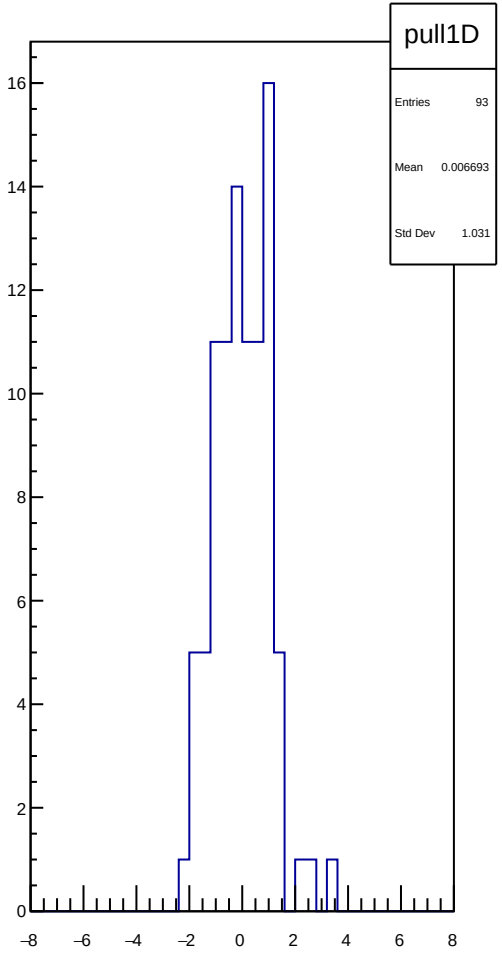

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.387e+05 / 92
p0 3.957e−11 ± 3.782e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

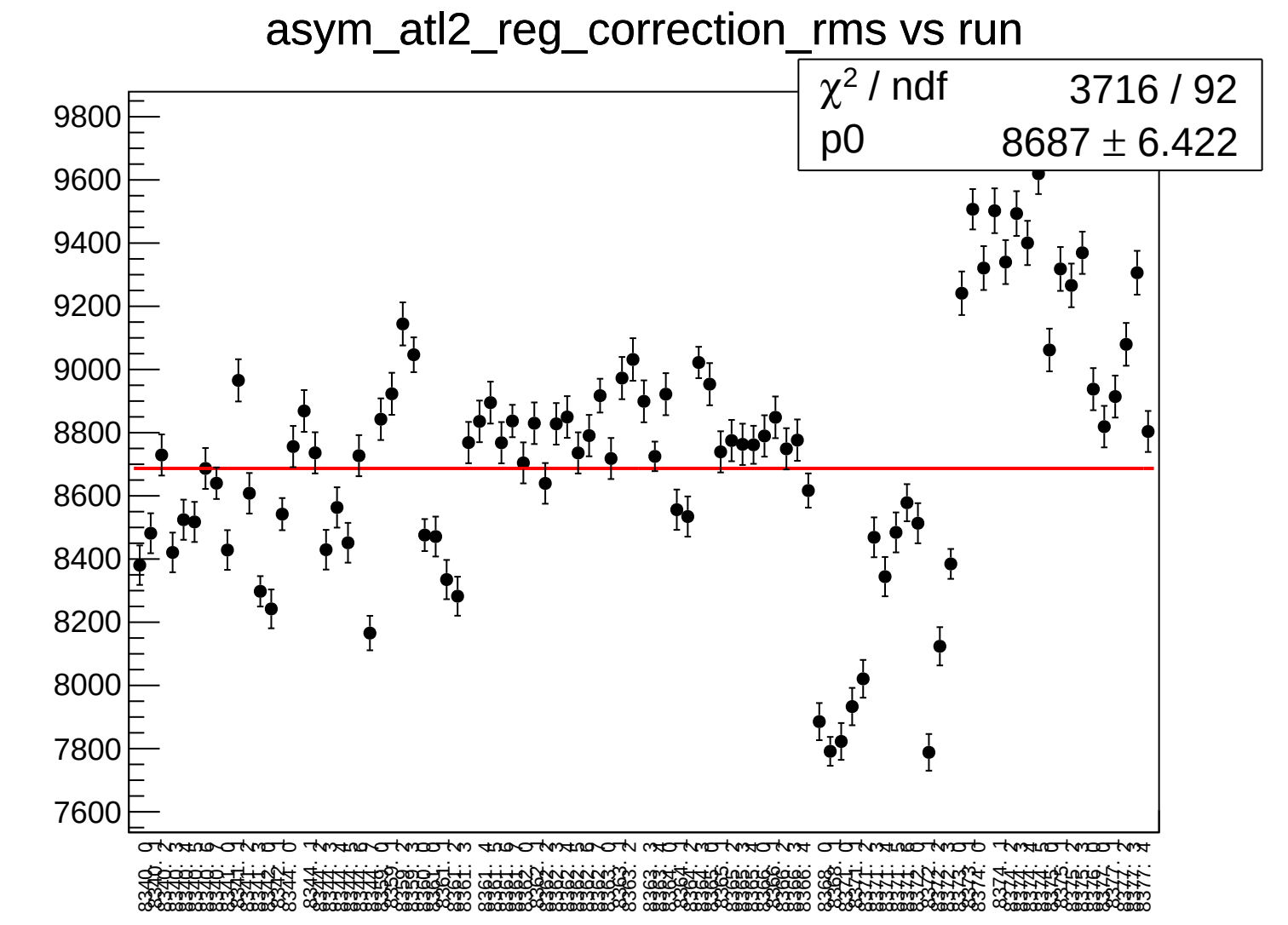

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 96.86 / 92
p0 −890 ± 2419
pull
Entries 93
Mean −357.3
Std Dev 0

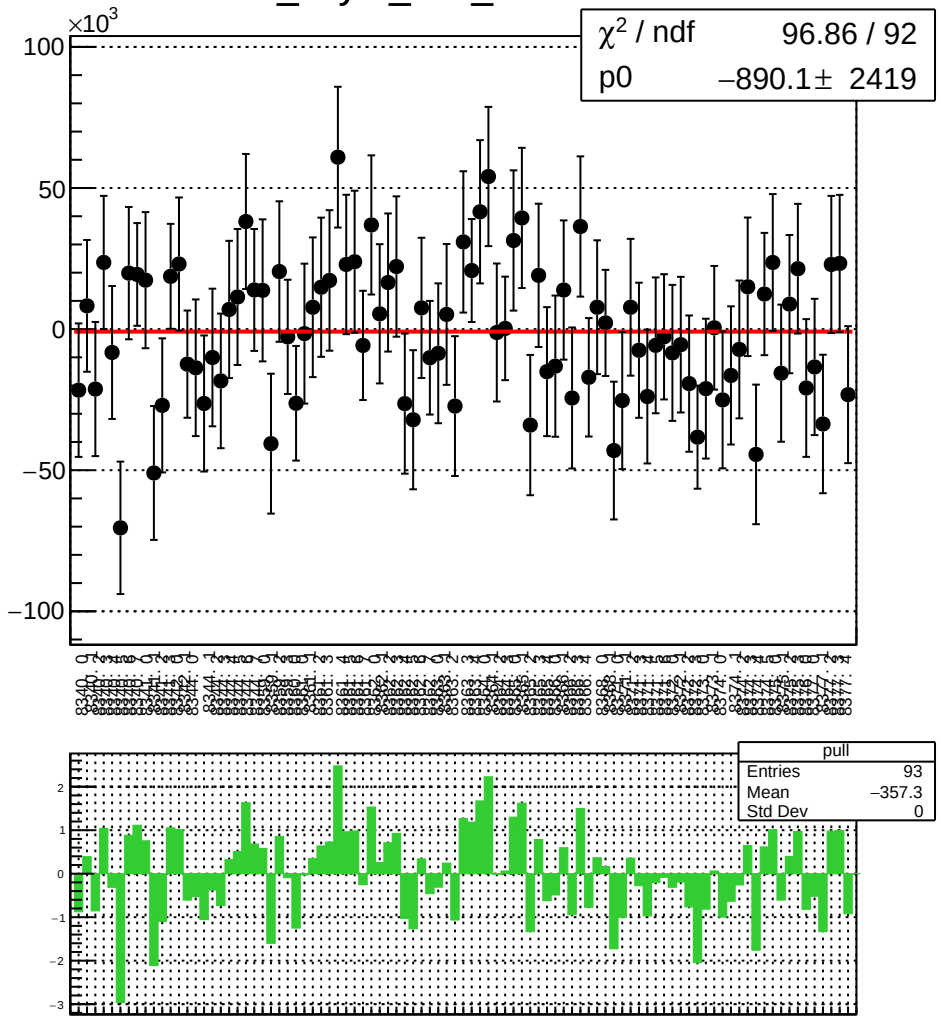

pull1D
Entries 93
Mean 0.005376
Std Dev 1.021

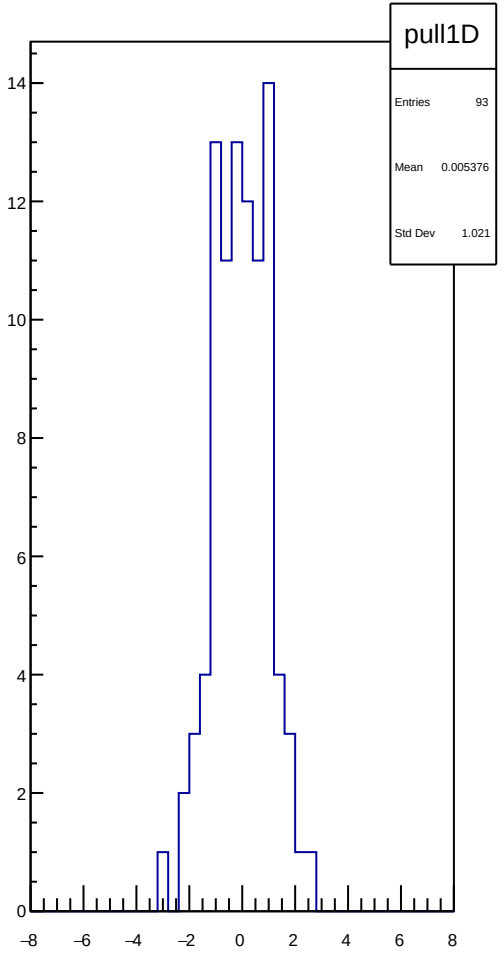

reg_asym_atl2_rms vs run
χ² / ndf 801.4 / 92
p0 2315 ± 1.71
2400
2350
2300
2250
2200

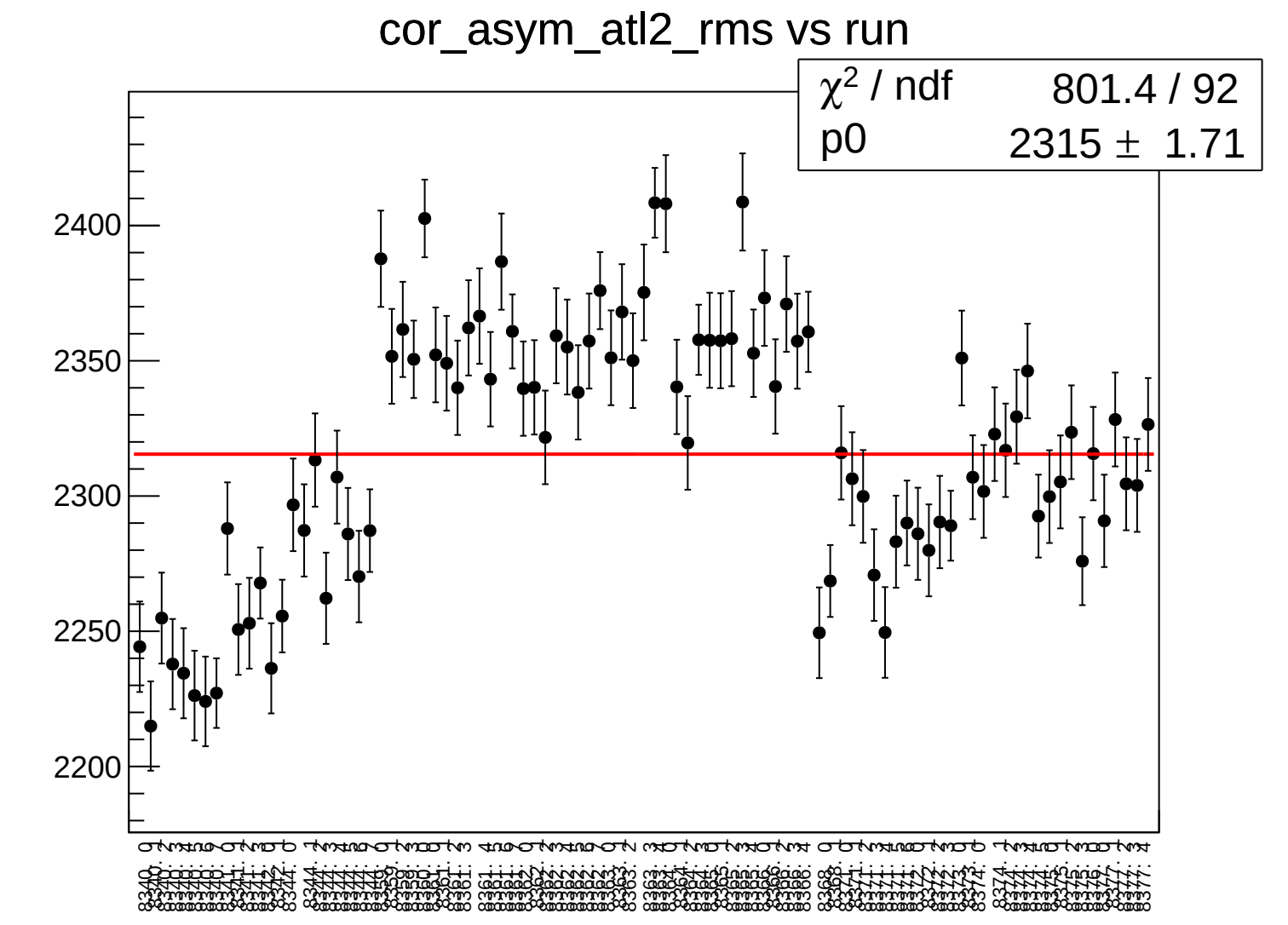

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 98.95 / 92
p0 −2.104e+04 ± 9082
pull
Entries 93
Mean −397.5
Std Dev 0

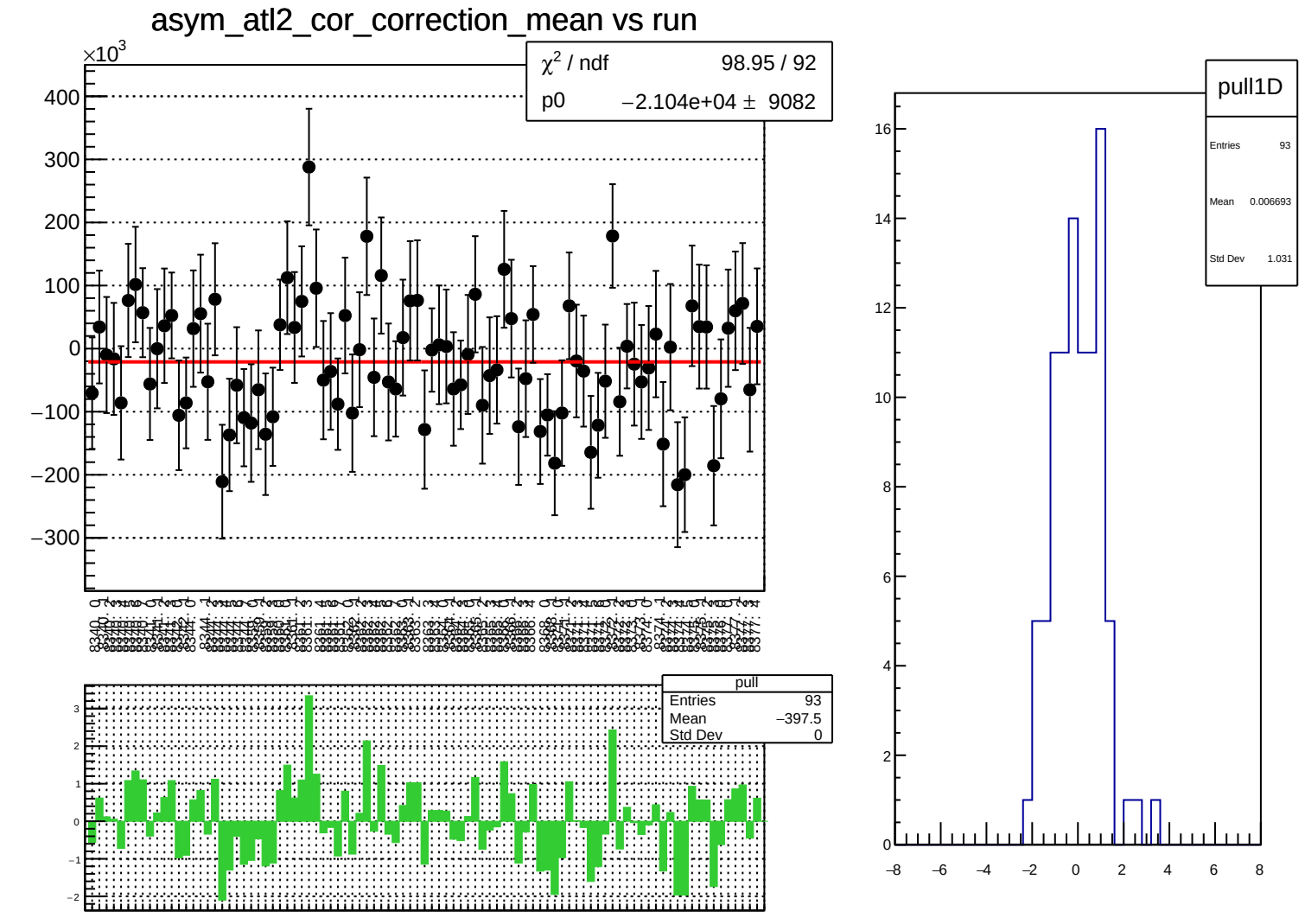

pull1D
Entries 93
Mean 0.006693
Std Dev 1.031

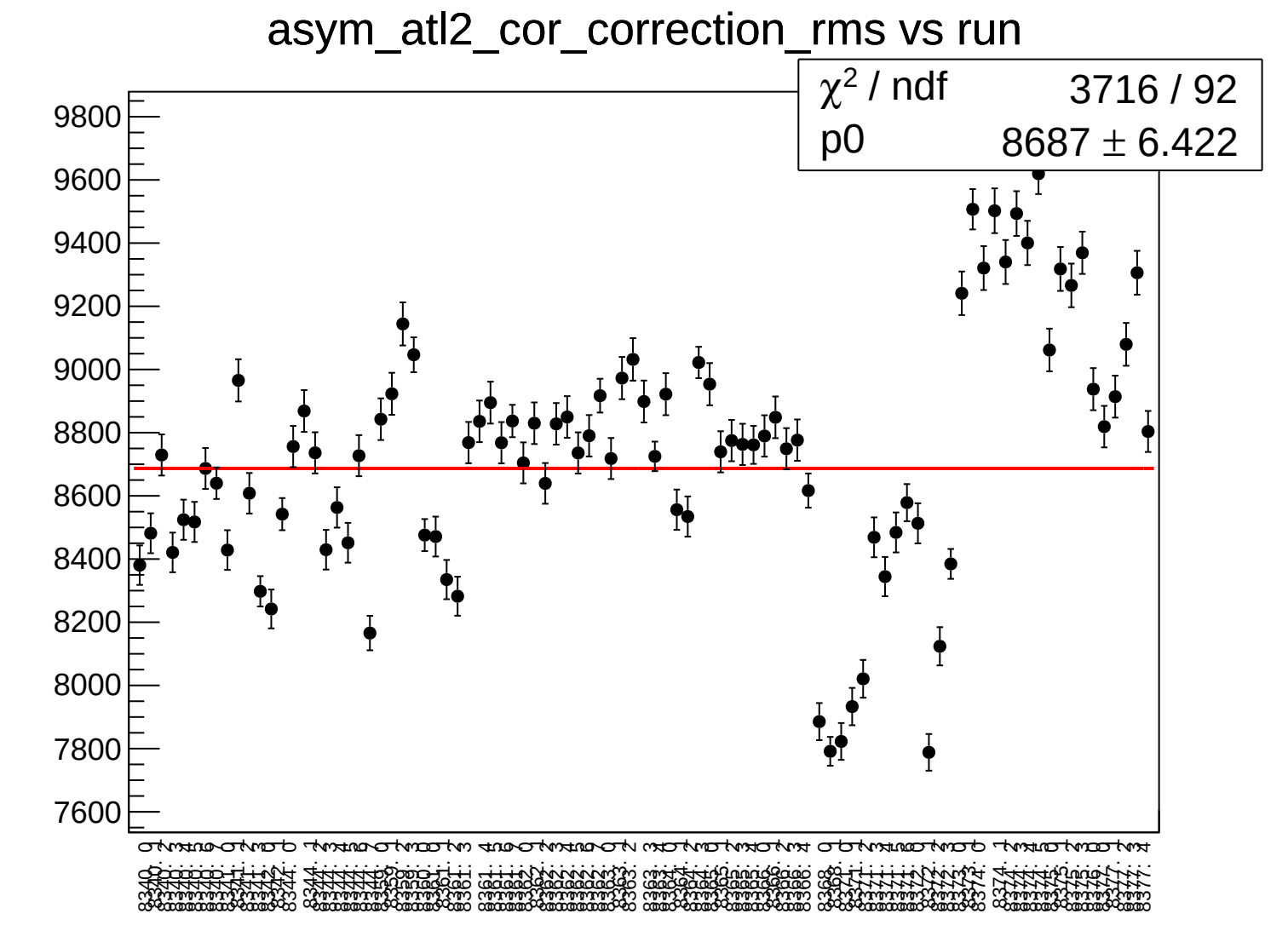

asym_atl2_reg_correction_rms vs run
χ² / ndf 3716 / 92
p0 8687 ± 6.422
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

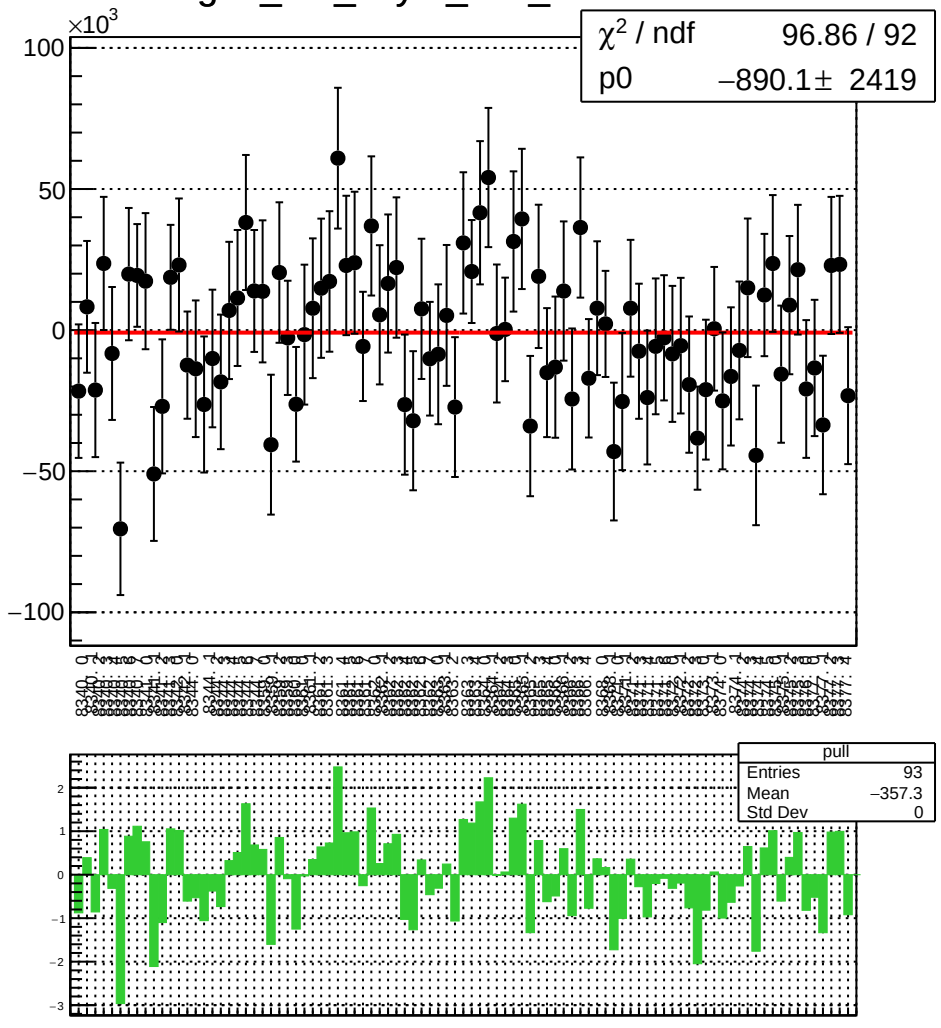

cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 96.86 / 92
p0 −890.1± 2419
pull
Entries 93
Mean −357.3
Std Dev 0
2
1
0
−1
−2
−3

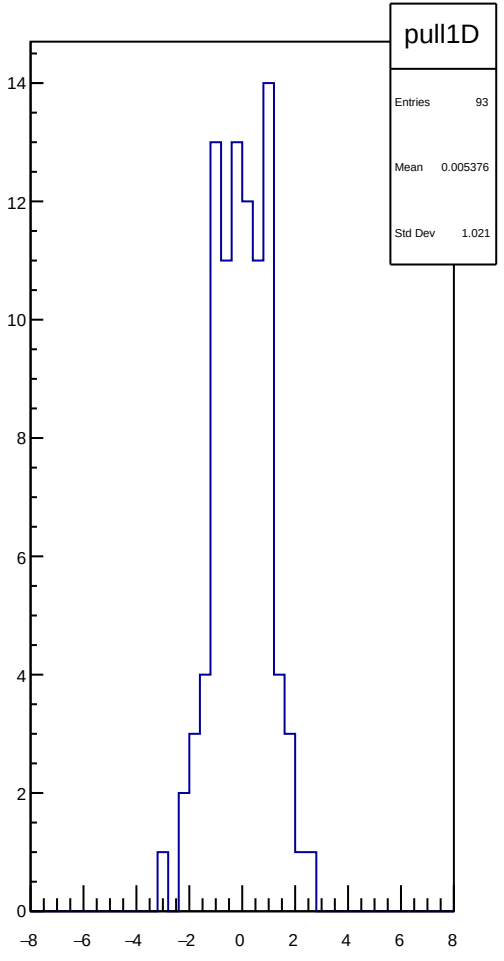

pull1D
Entries 93
Mean 0.005376
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

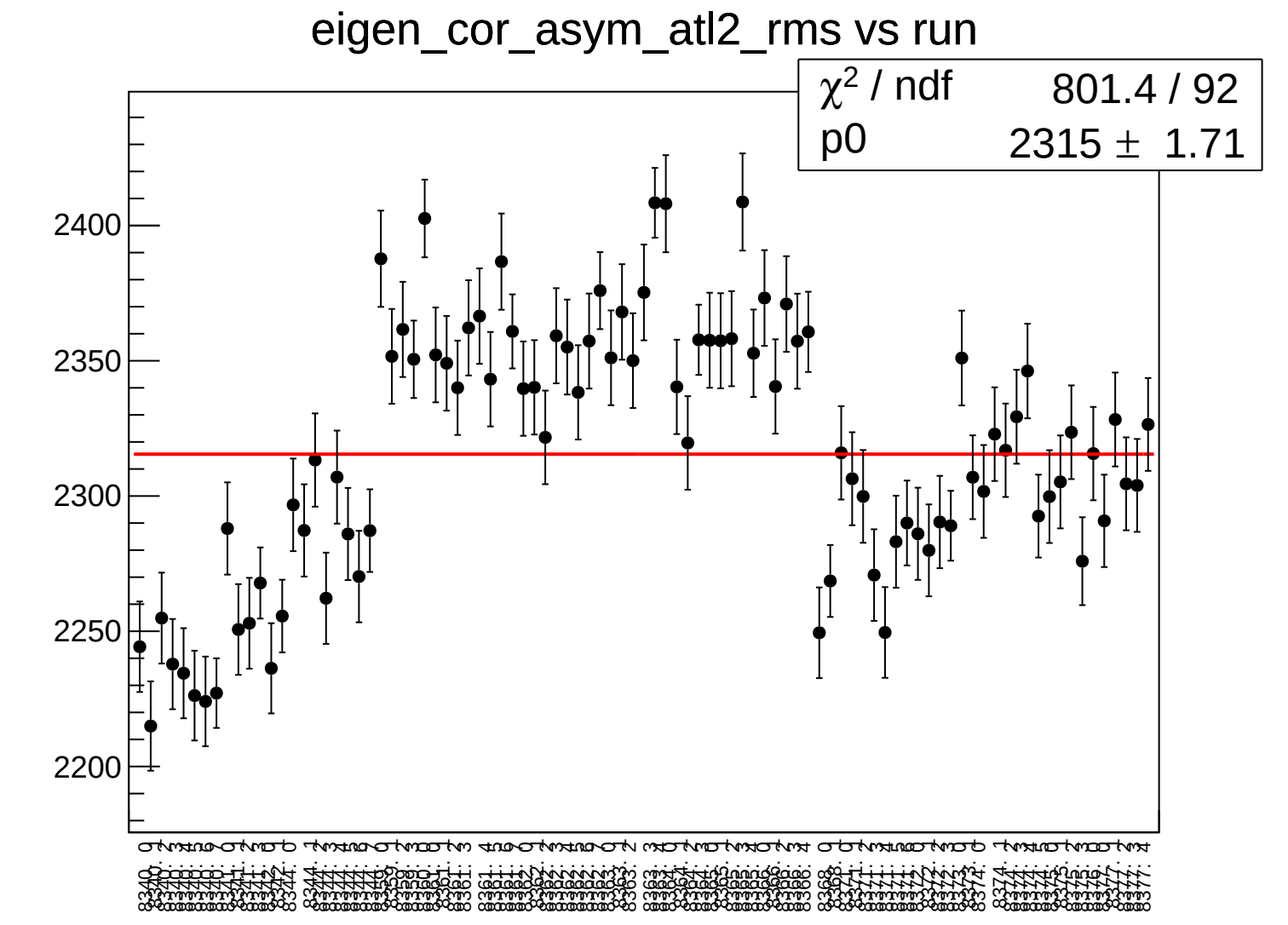

cor_asym_atl2_rms vs run
χ² / ndf 801.4 / 92
p0 2315 ± 1.71
2400
2350
2300
2250
2200

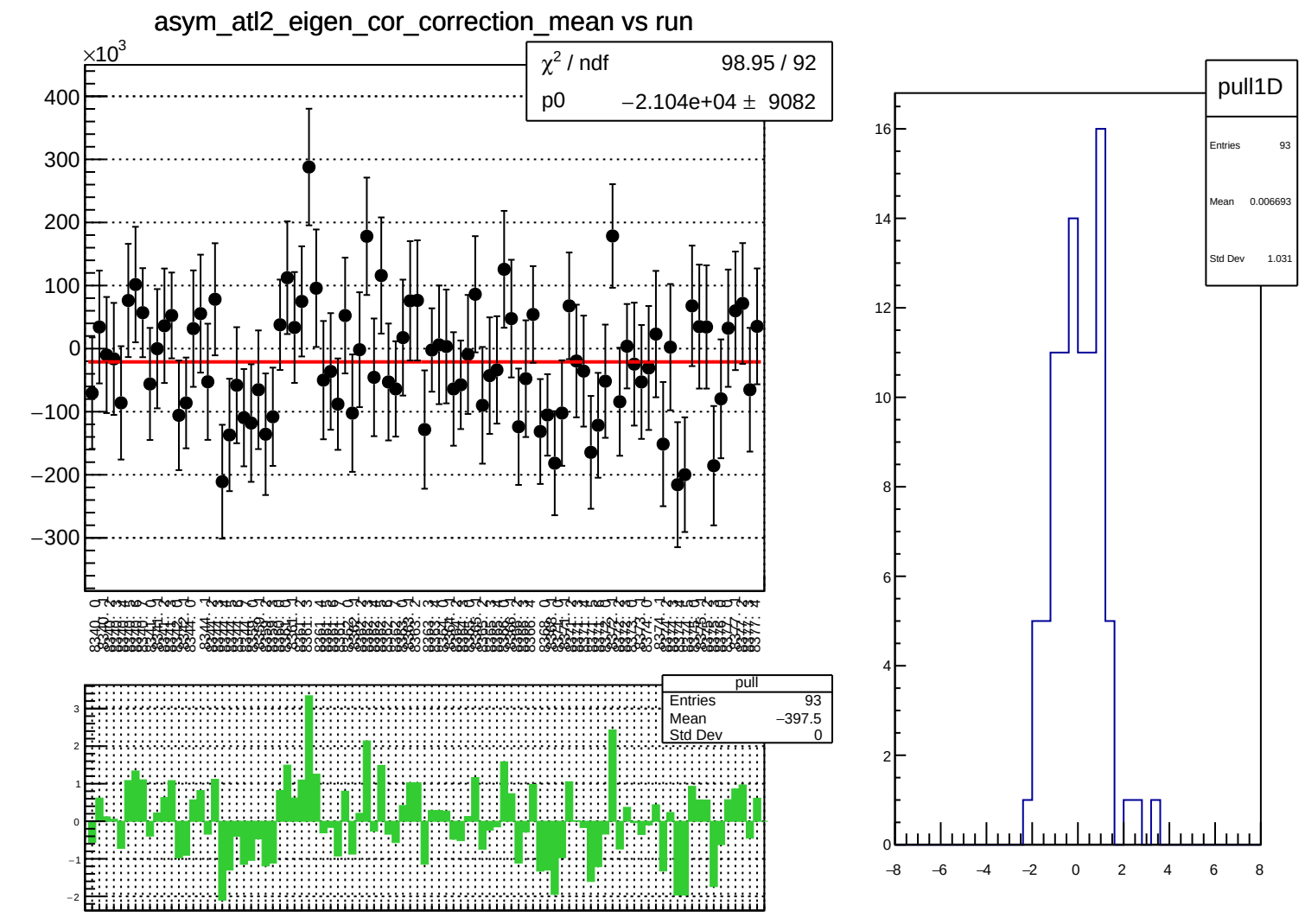

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 98.95 / 92
p0 −2.104e+04 ± 9082
pull
Entries 93
Mean −397.5
Std Dev 0
pull1D
Entries 93
Mean 0.006693
Std Dev 1.031

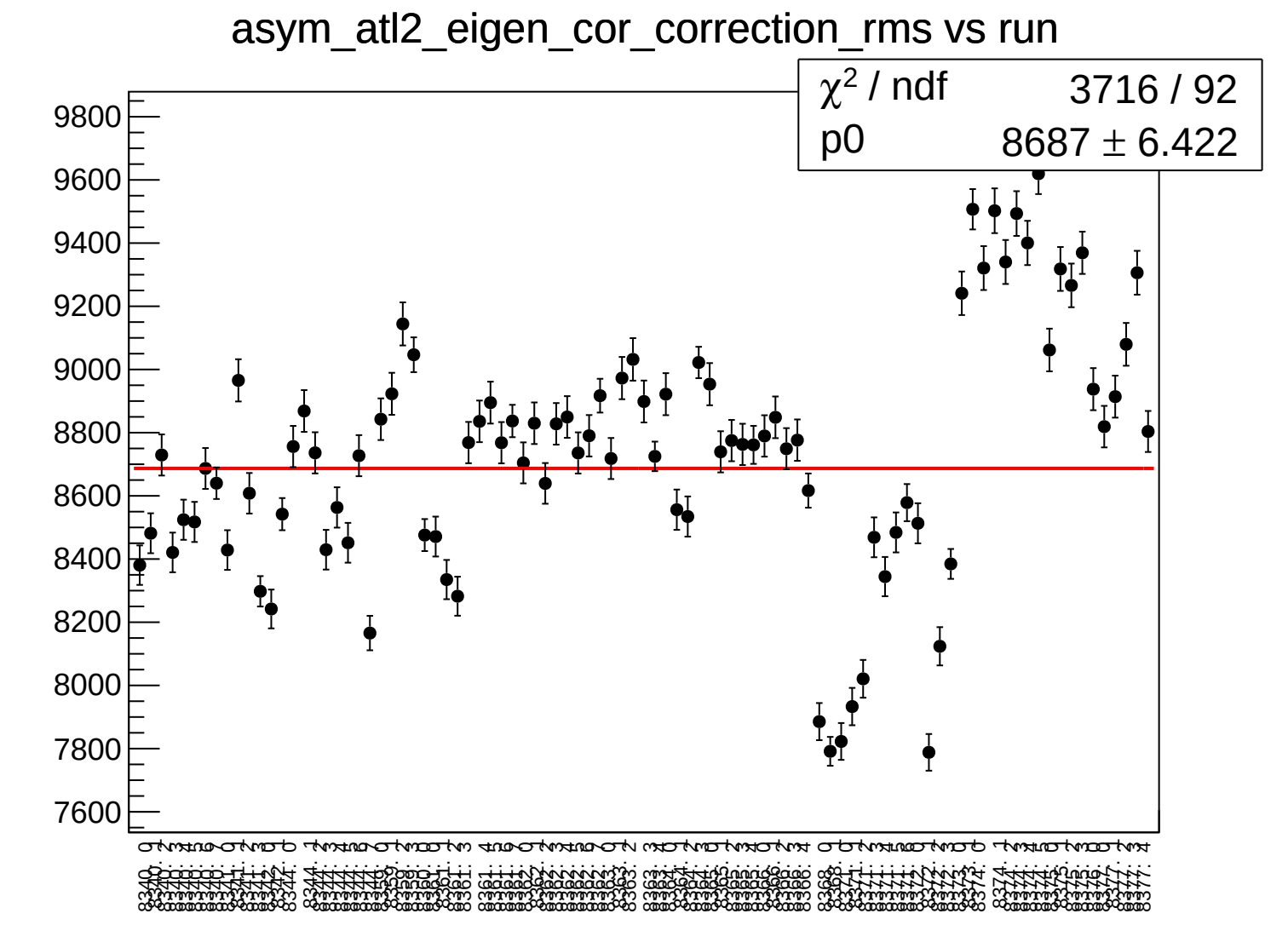

asym_atl2_cor_correction_rms vs run
χ² / ndf 3716 / 92
p0 8687 ± 6.422
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

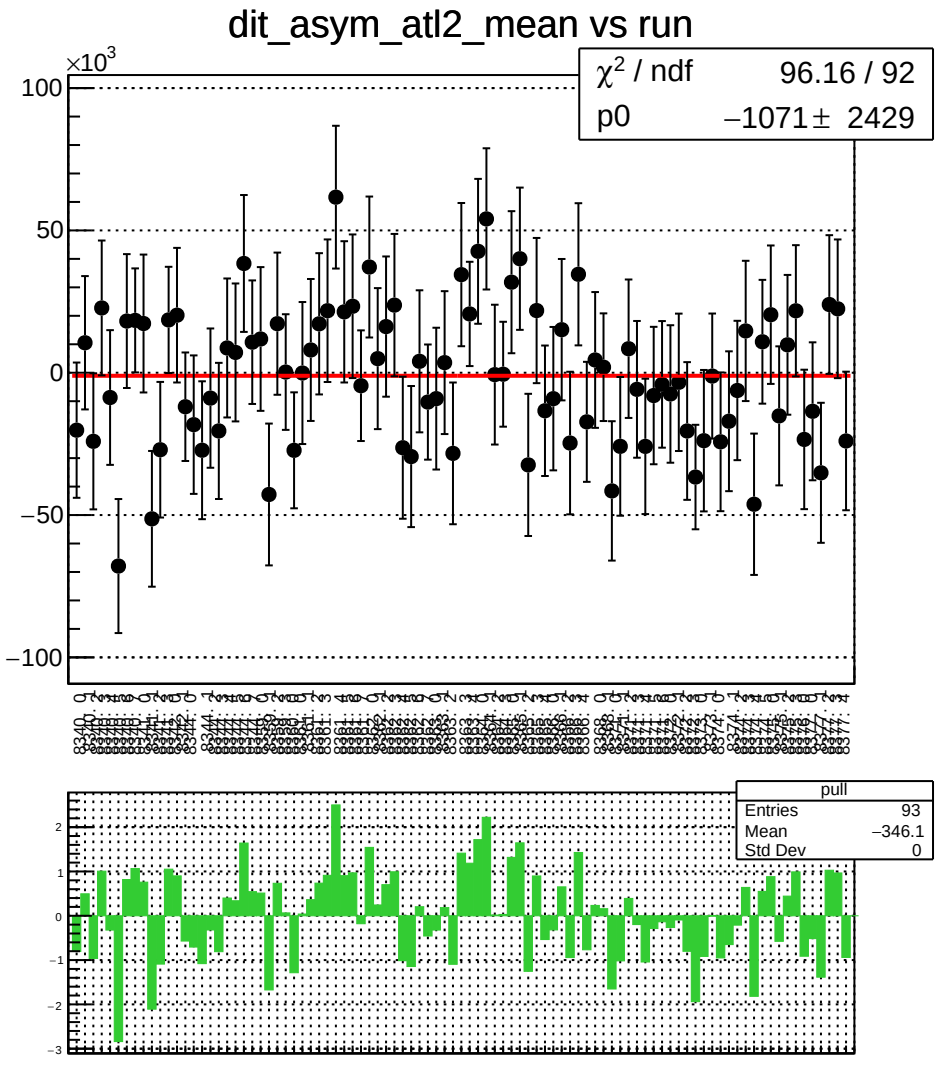

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 96.86 / 92
p0 −890.1± 2419
pull
Entries 93
Mean −357.3
Std Dev 0
2
1
0
−1
−2
−3

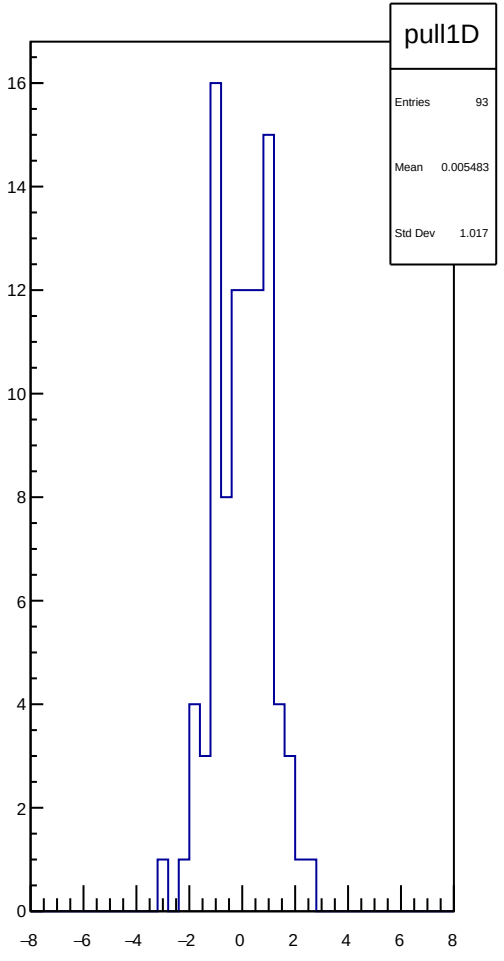

pull1D
Entries 93
Mean 0.005376
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

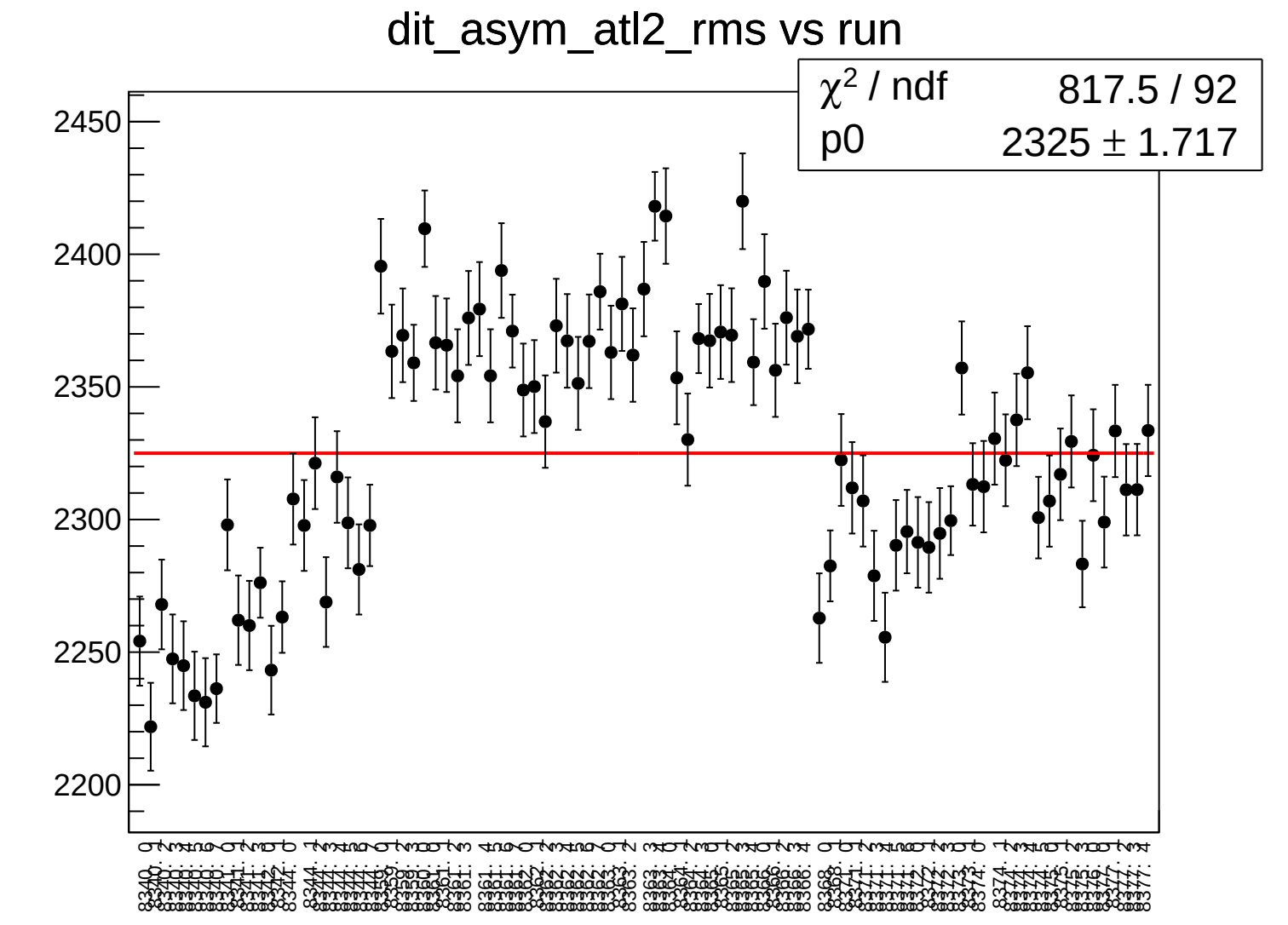

eigen_cor_asym_atl2_rms vs run
χ² / ndf 801.4 / 92
p0 2315 ± 1.71
2400
2350
2300
2250
2200

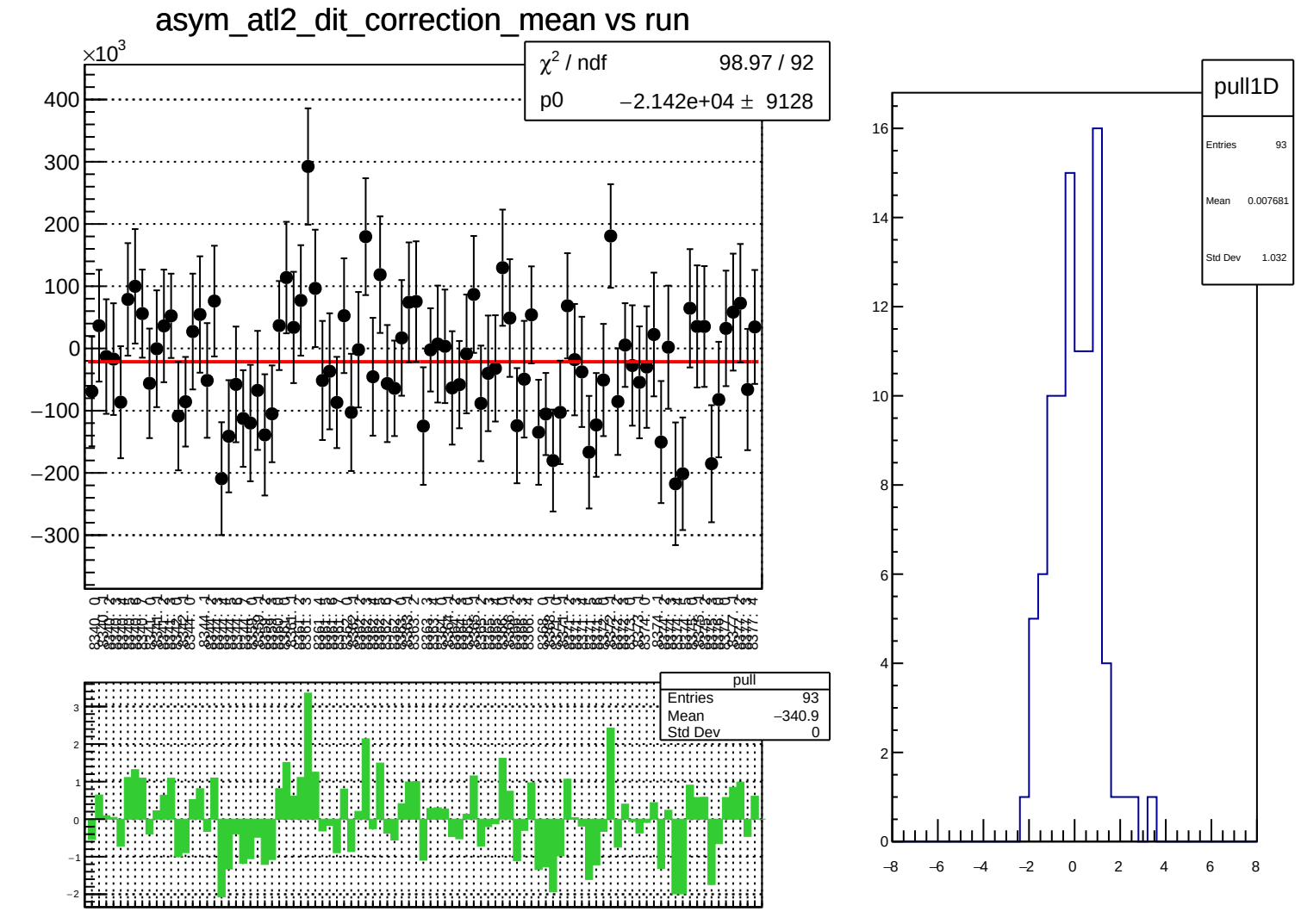

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.95 / 92
p0 −2.104e+04 ± 9082
pull
Entries 93
Mean −397.5
Std Dev 0
pull1D
Entries 93
Mean 0.006693
Std Dev 1.031

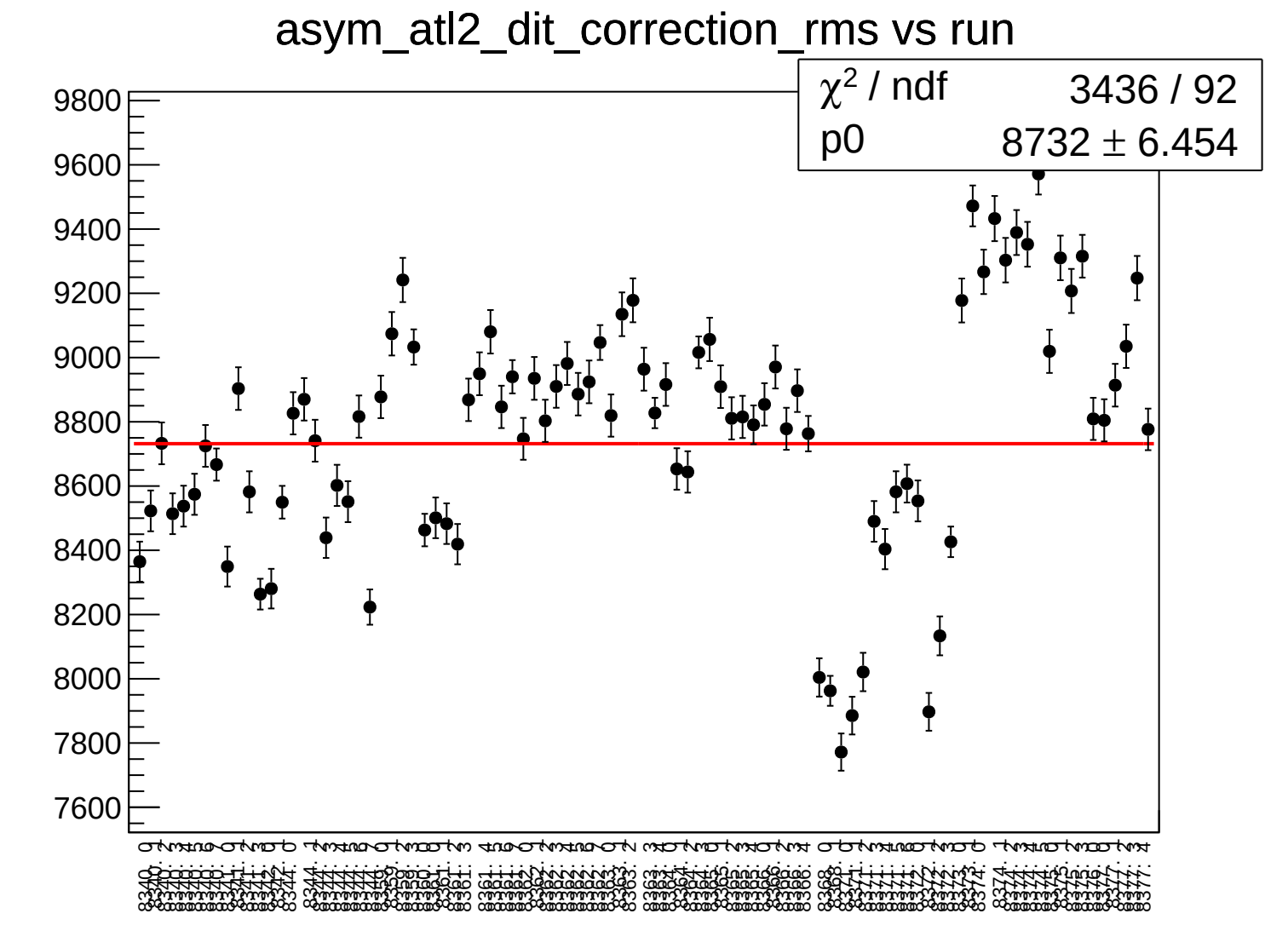

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 3716 / 92
p0 8687 ± 6.422
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

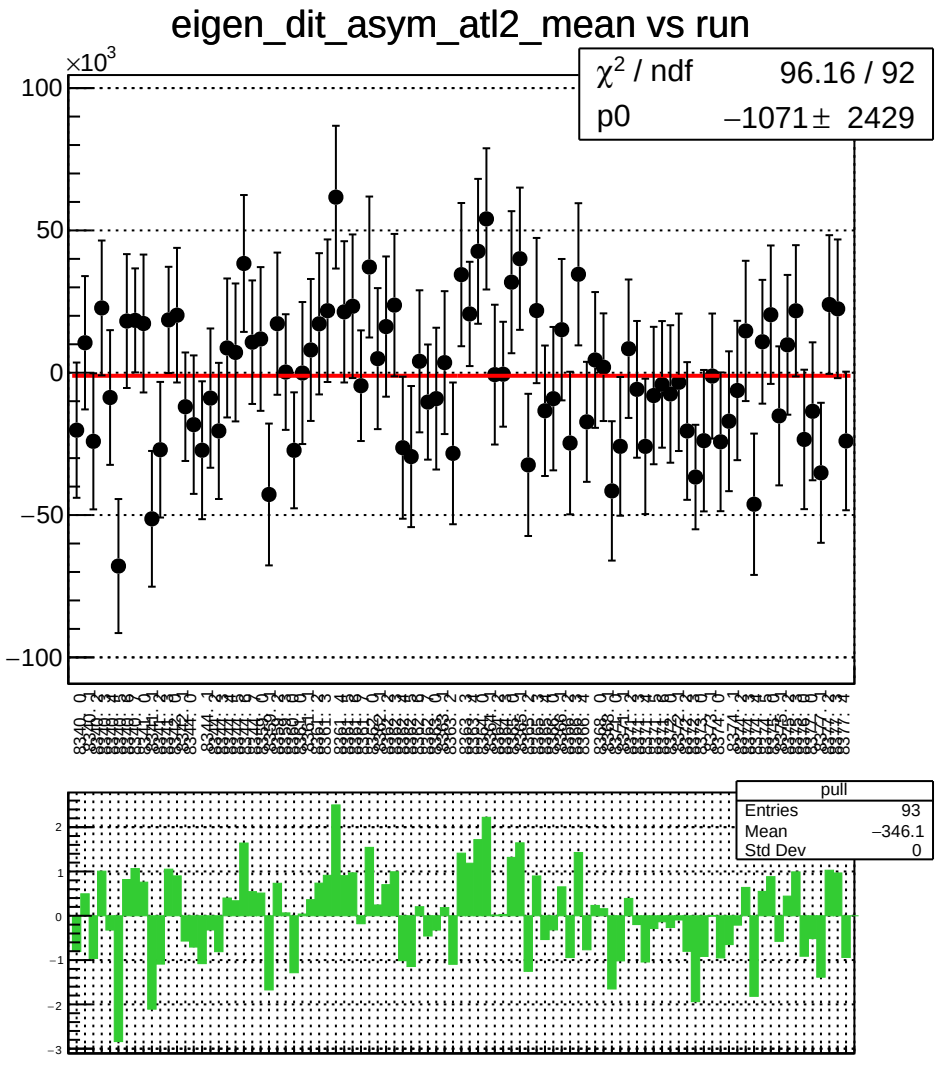

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 96.16 / 92
p0 −1071 ± 2429
pull
Entries 93
Mean −346.1
Std Dev 0

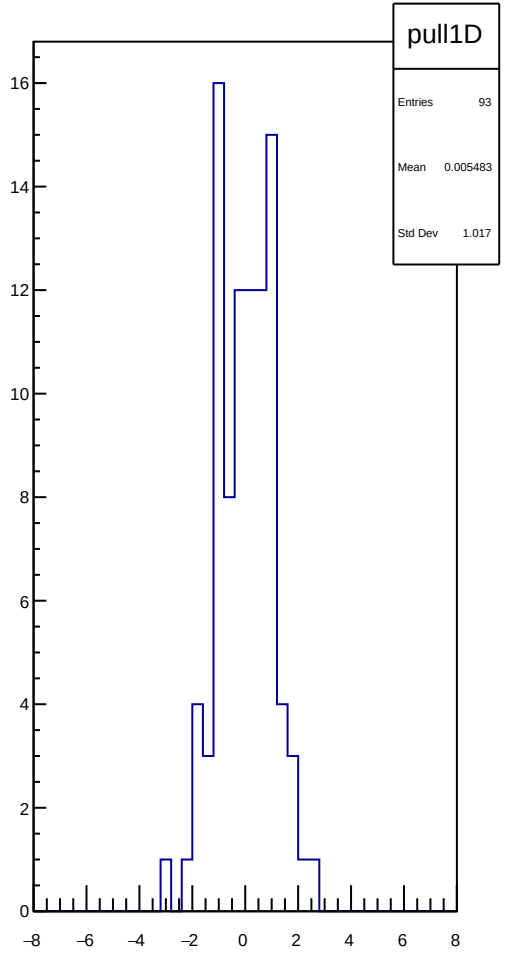

pull1D
Entries 93
Mean 0.005483
Std Dev 1.017

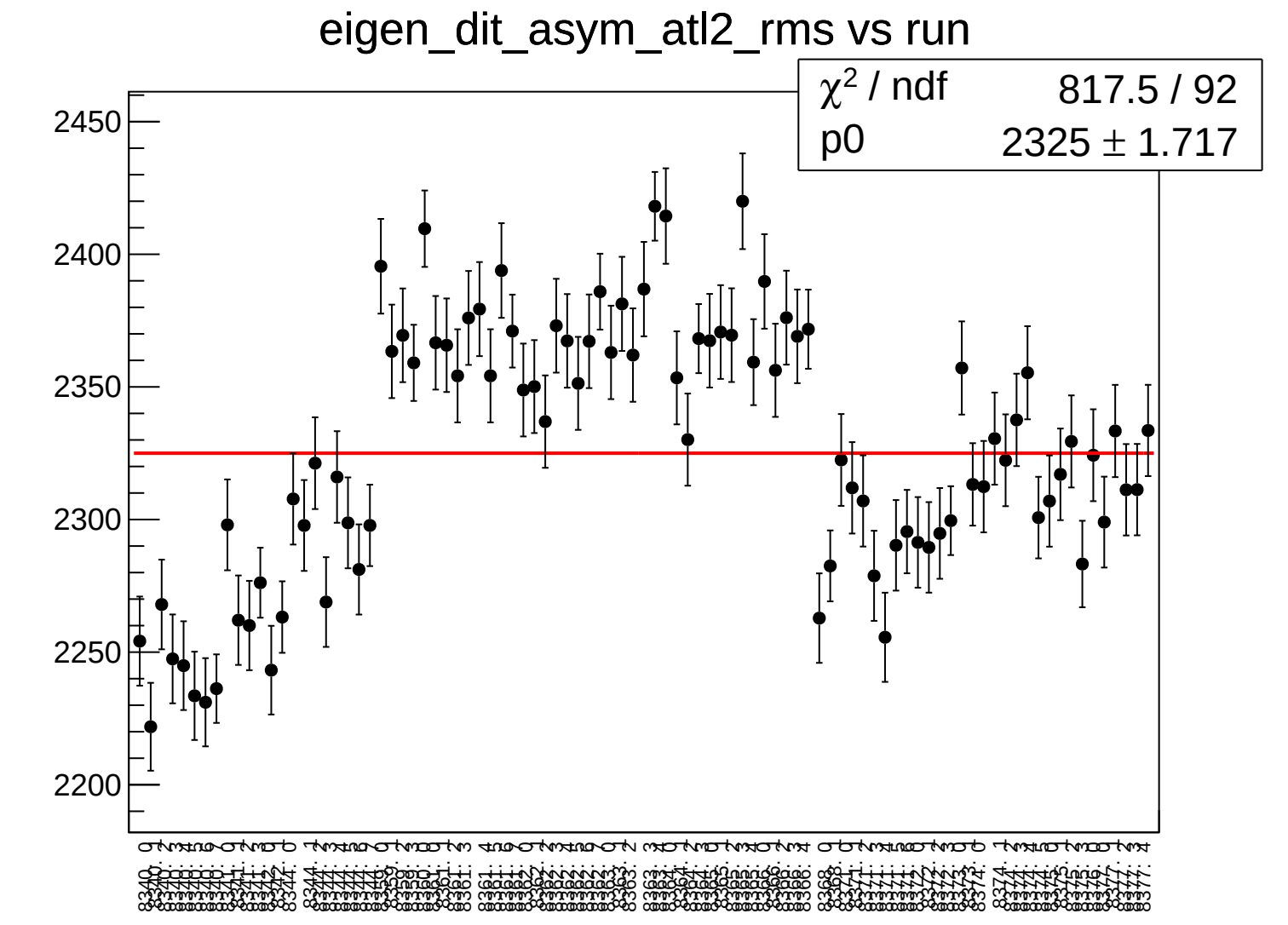

dit_asym_atl2_rms vs run
χ² / ndf 817.5 / 92
p0 2325 ± 1.717
2450
2400
2350
2300
2250
2200

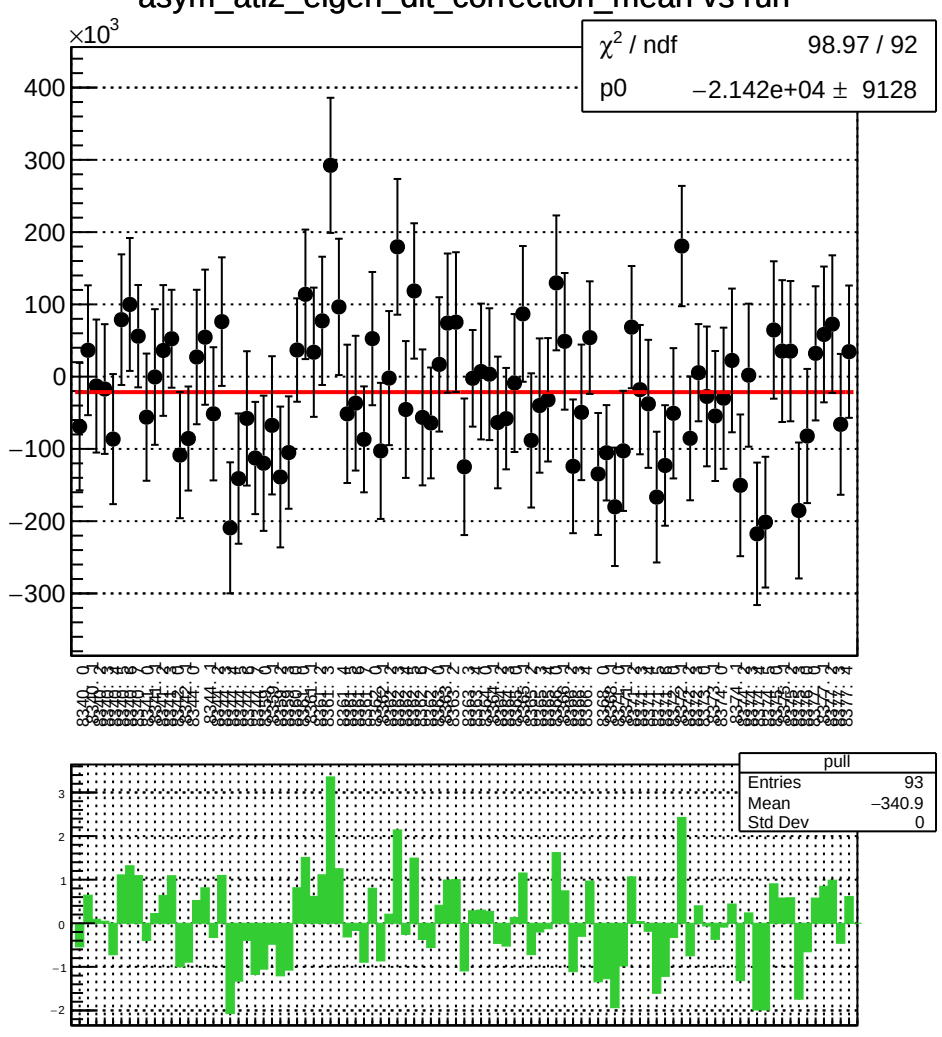

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 98.97 / 92
p0 −2.142e+04 ± 9128
pull
Entries 93
Mean −340.9
Std Dev 0
pull1D
Entries 93
Mean 0.007681
Std Dev 1.032

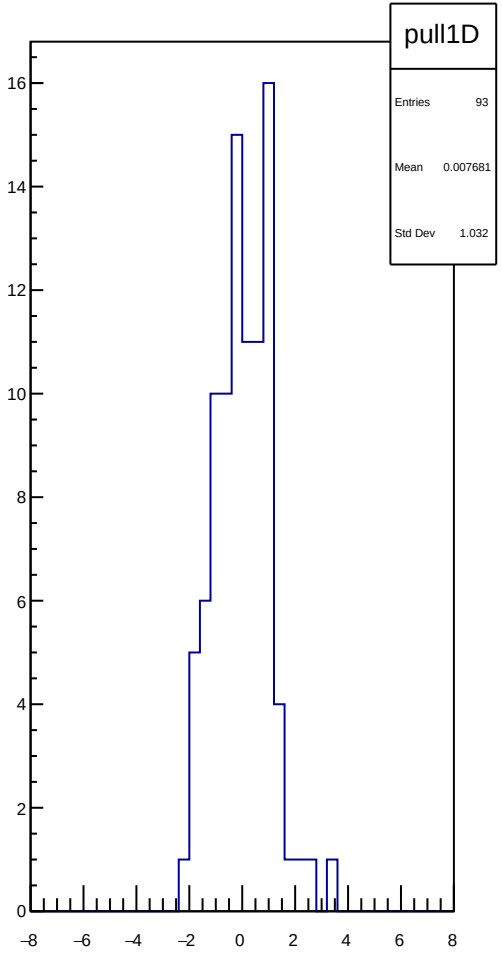

asym_atl2_dit_correction_rms vs run
χ² / ndf 3436 / 92
p0 8732 ± 6.454
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

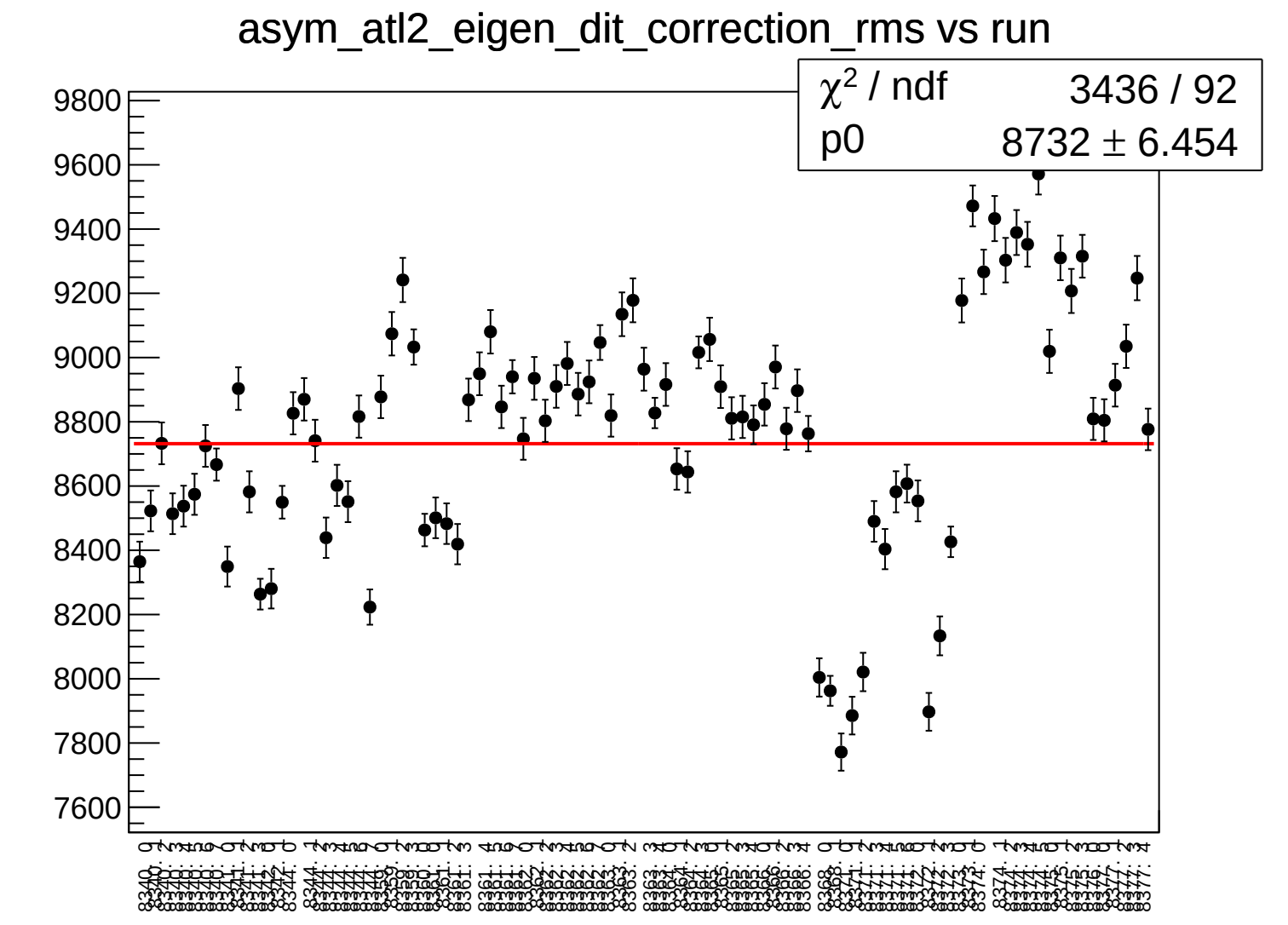

eigen_dit_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 96.16 / 92
p0 −1071 ± 2429
pull
Entries 93
Mean −346.1
Std Dev 0
2
1
0
−1
−2
−3

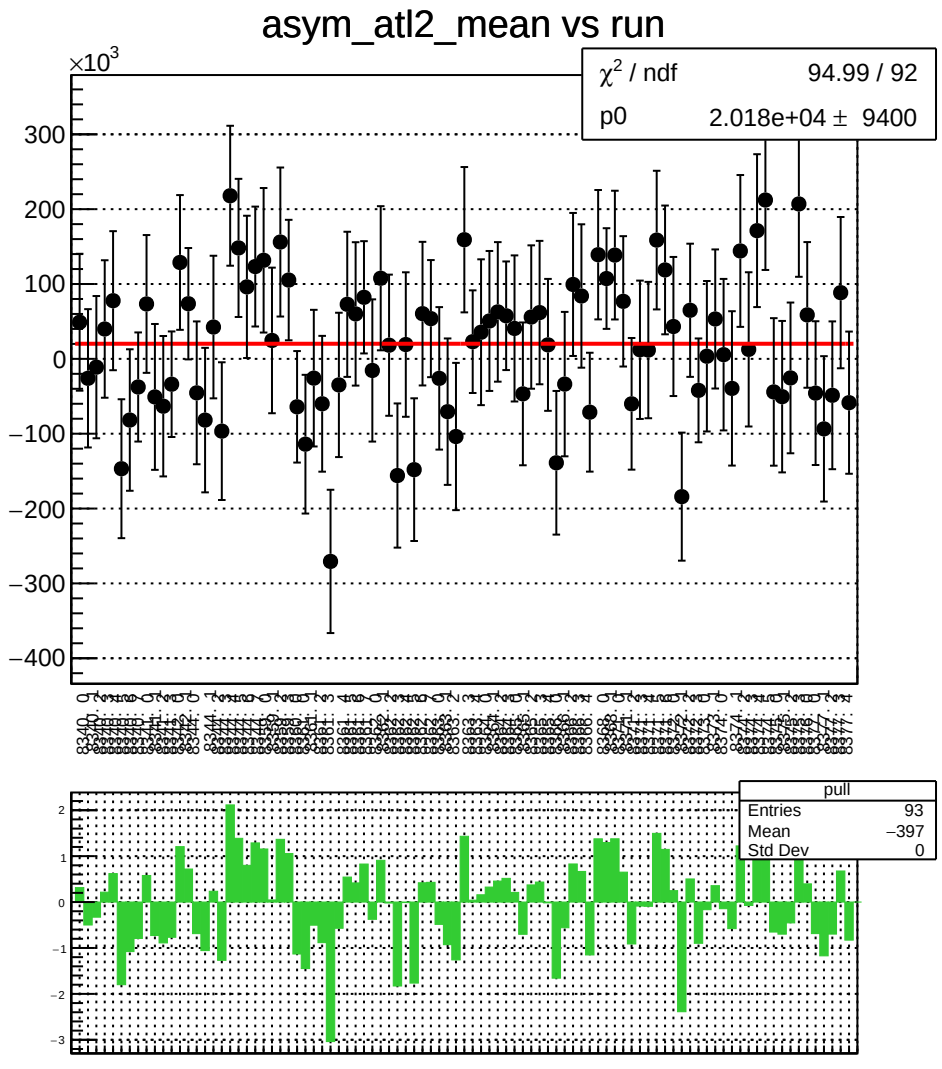

pull1D
Entries 93
Mean 0.005483
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

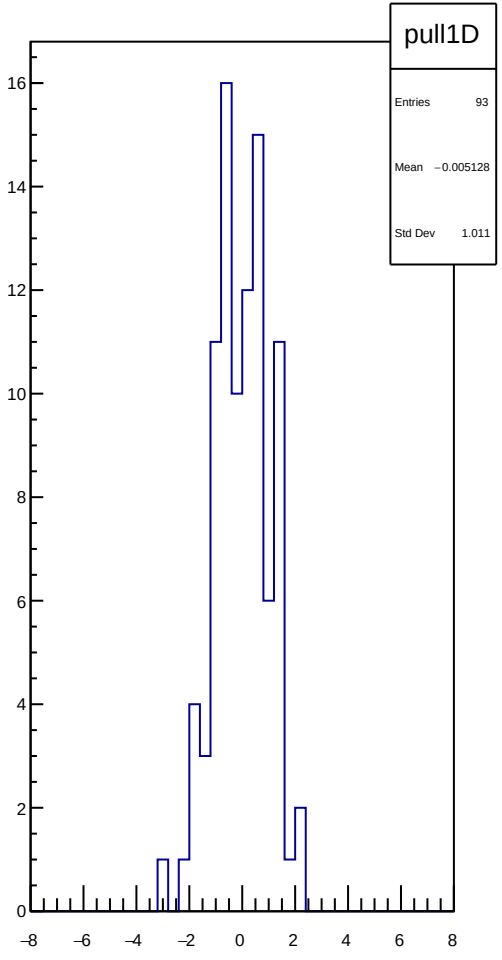

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 817.5 / 92
p0 2325 ± 1.717
2450
2400
2350
2300
2250
2200

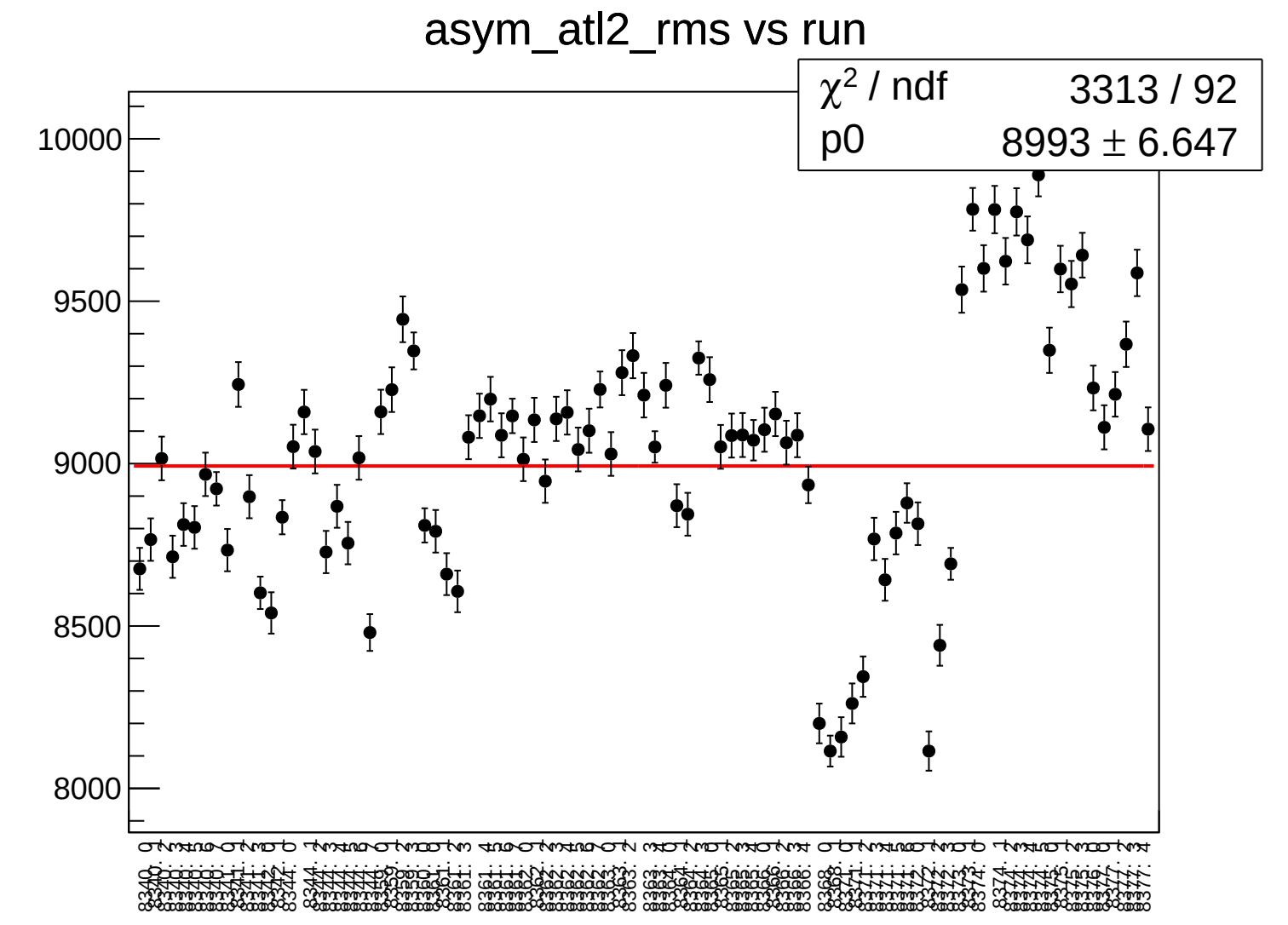

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.97 / 92
p0 −2.142e+04 ± 9128
pull
Entries 93
Mean −340.9
Std Dev 0

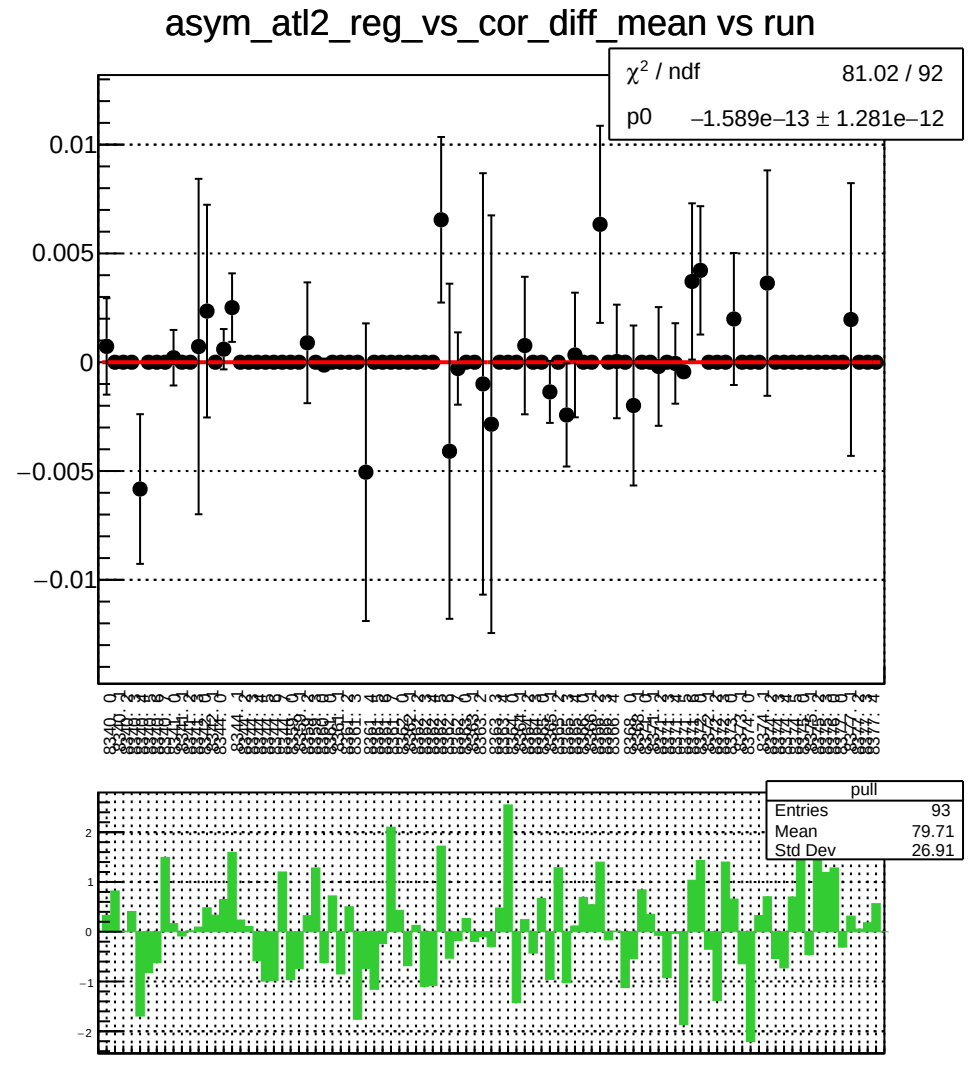

pull1D
Entries 93
Mean 0.007681
Std Dev 1.032

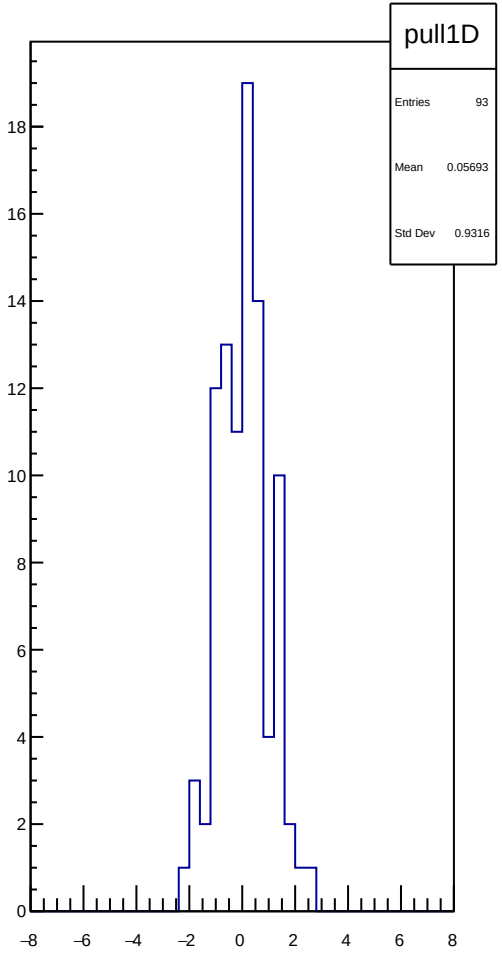

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 3436 / 92
p0 8732 ± 6.454
9800
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800
7600

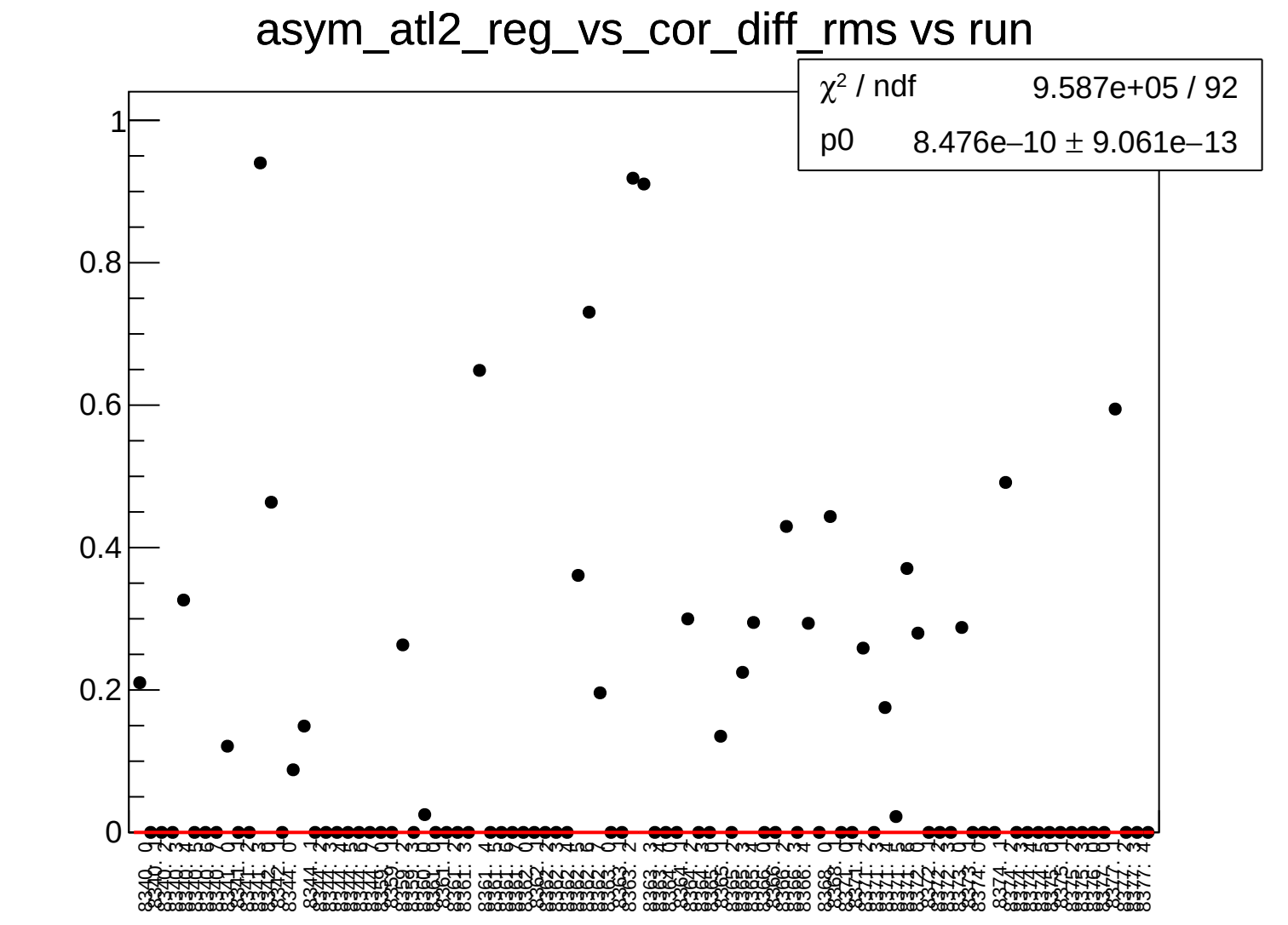

asym_atl2_mean vs run
×10^3
χ² / ndf 94.99 / 92
p0 2.018e+04 ± 9400
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −397
Std Dev 0
2
1
0
−1
−2
−3

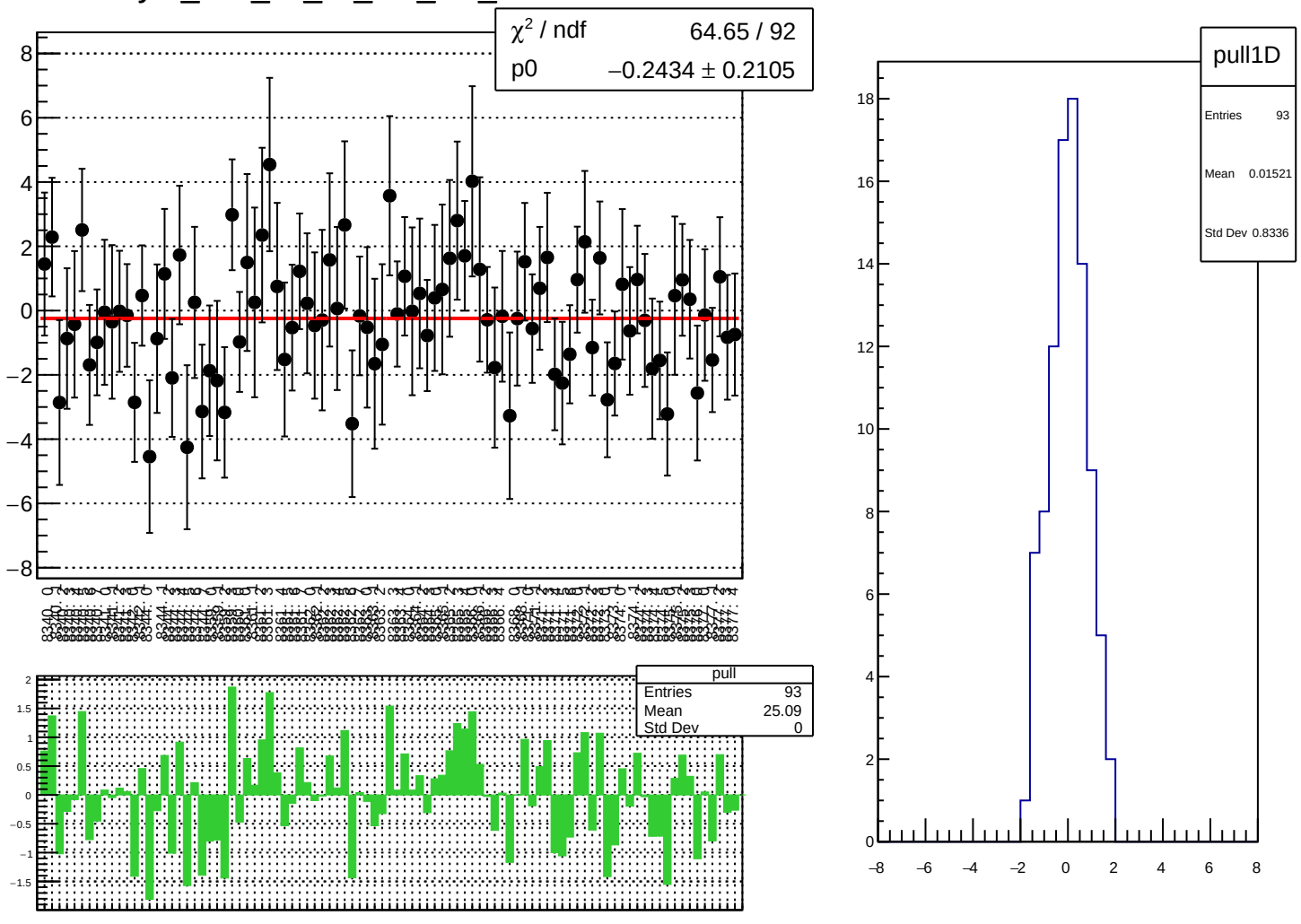

pull1D
Entries 93
Mean −0.005128
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

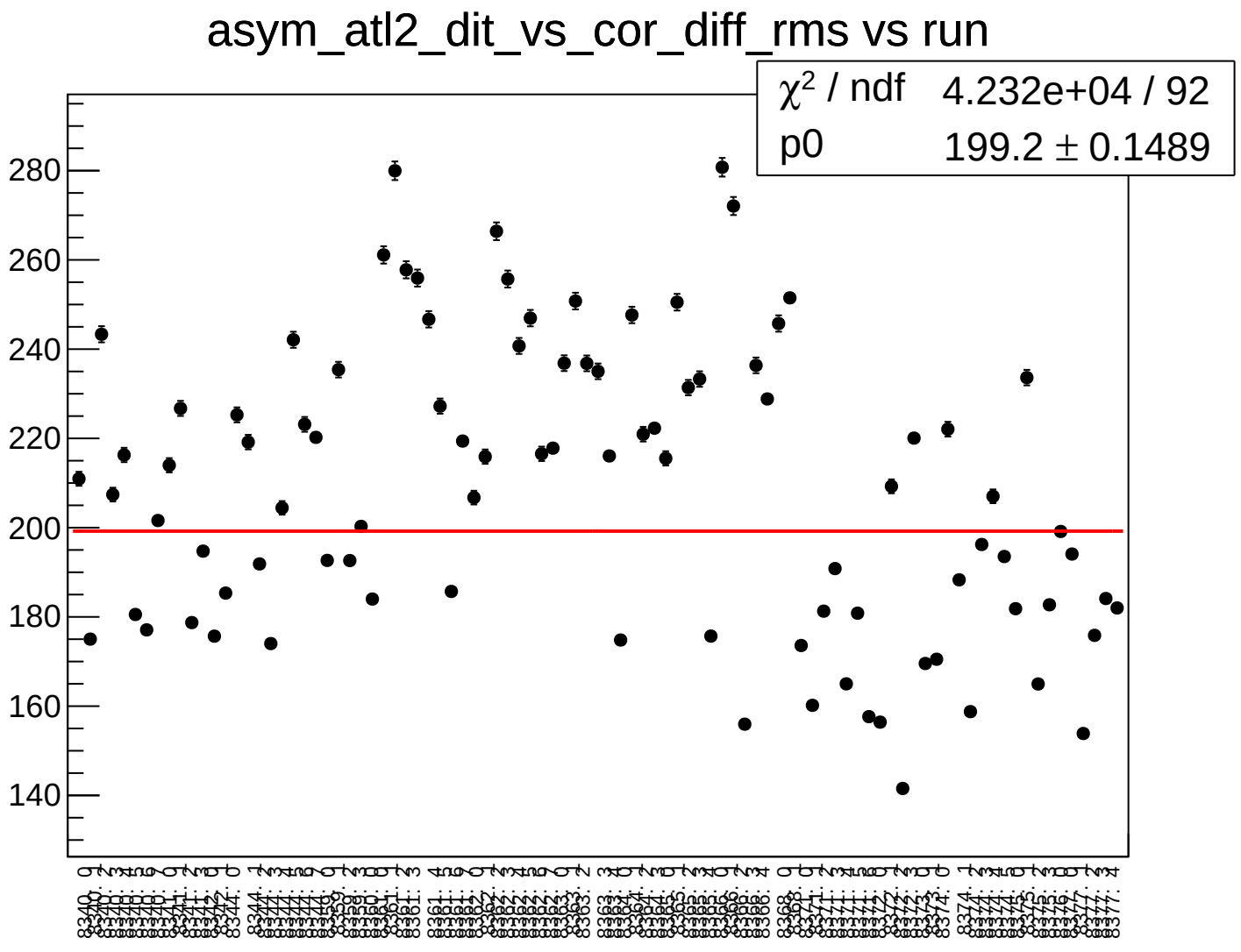

asym_atl2_rms vs run
χ^2 / ndf 3313 / 92
p0 8993 ± 6.647
10000
9500
9000
8500
8000

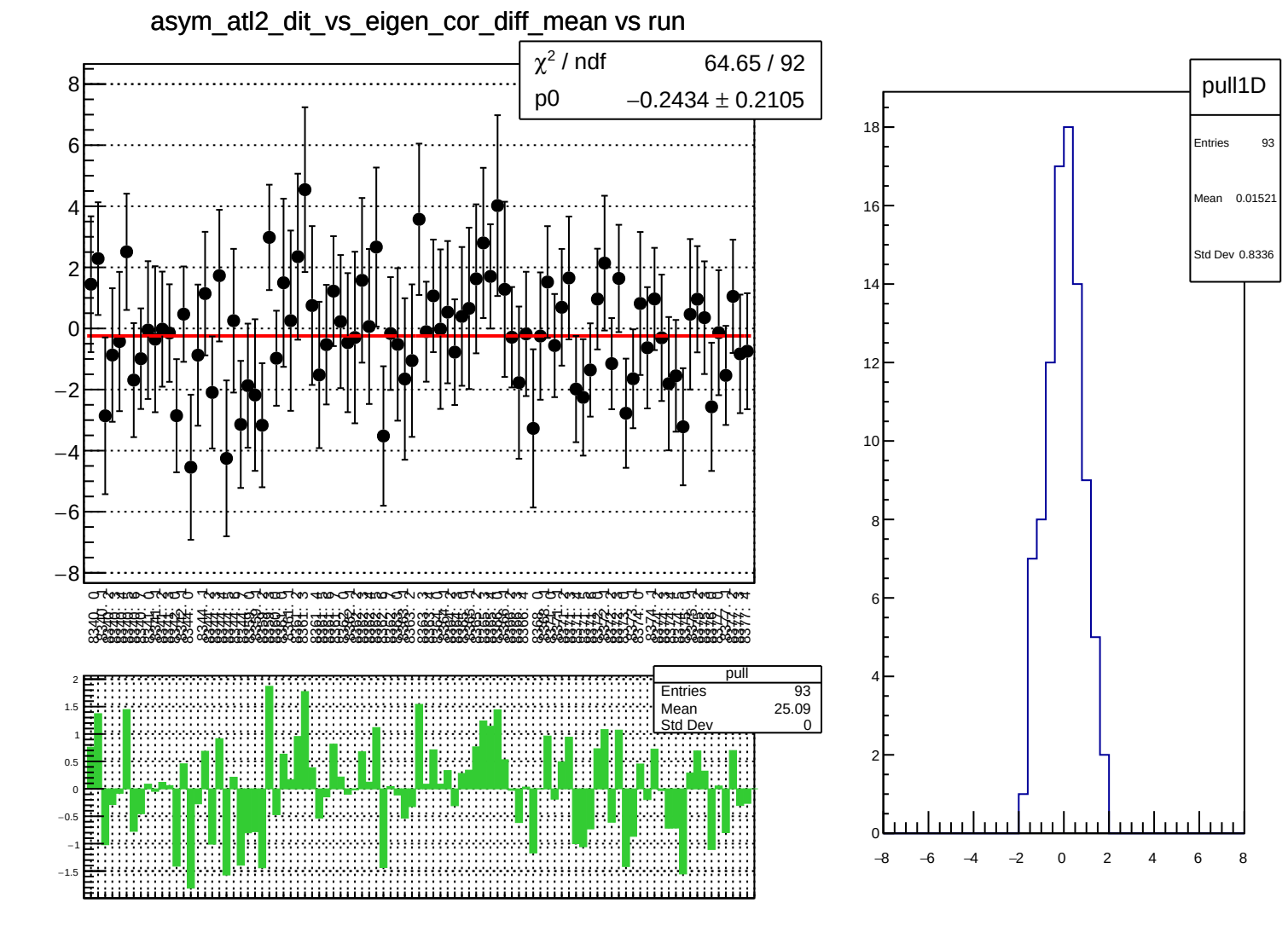

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 81.02 / 92
p0 −1.589e−13 ± 1.281e−12
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 79.71
Std Dev 26.91
2
1
0
−1
−2

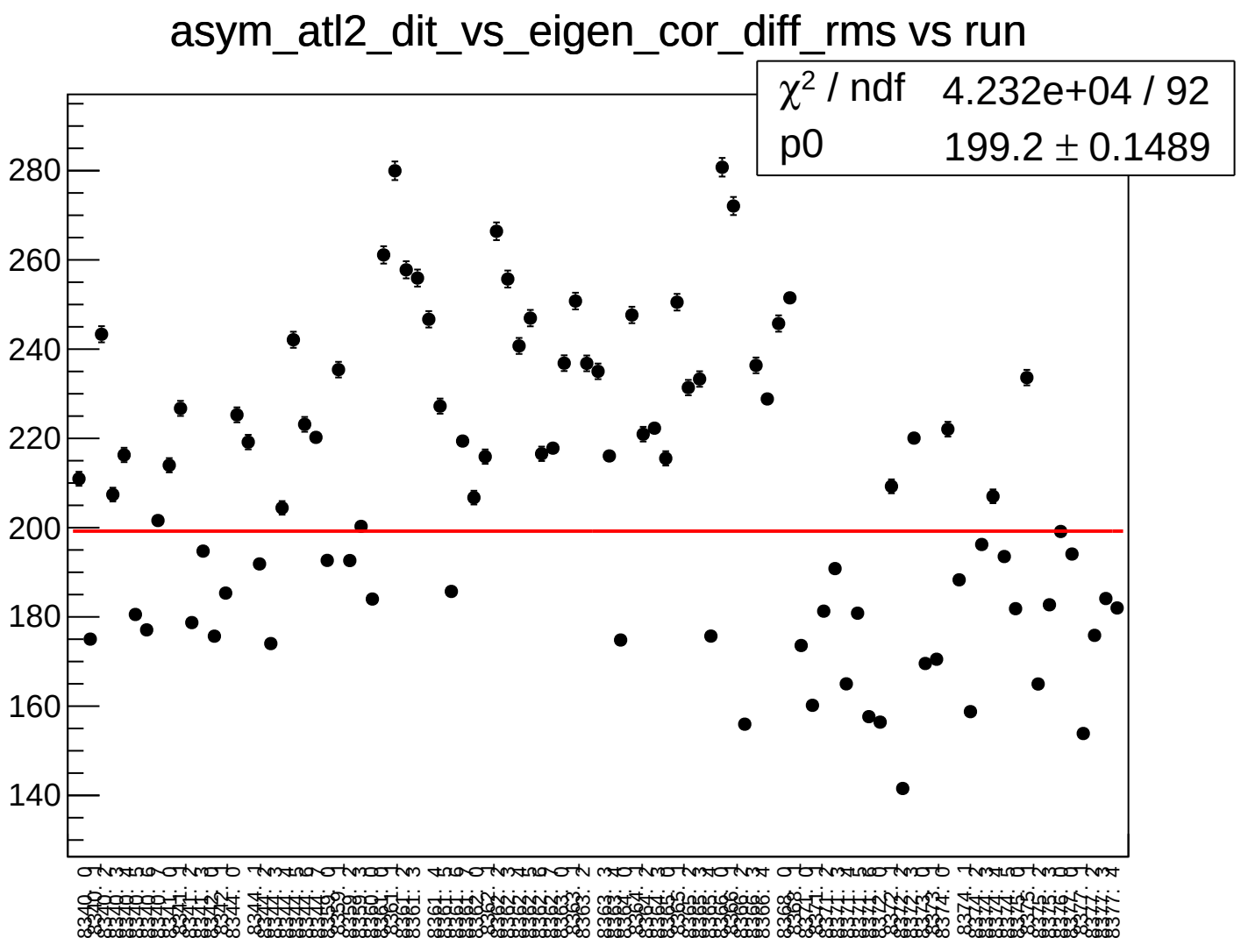

pull1D
Entries 93
Mean 0.05693
Std Dev 0.9316
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

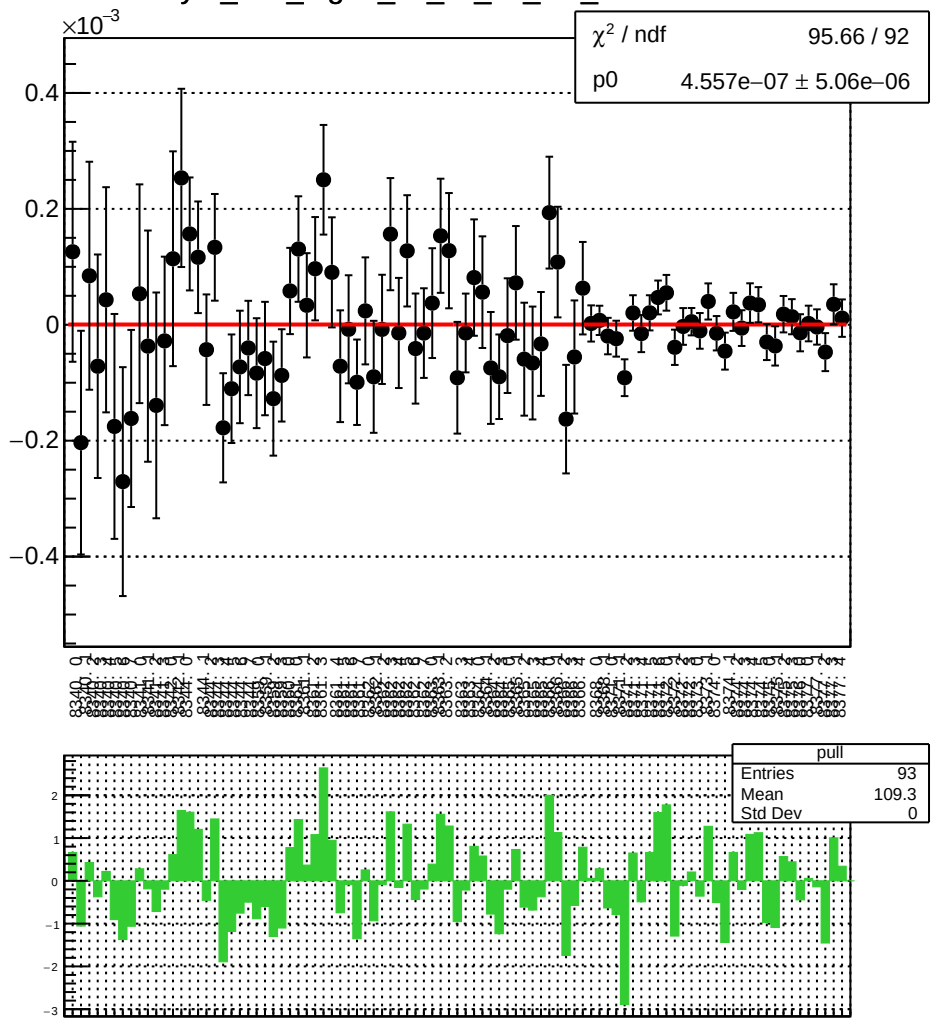

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.587e+05 / 92
p0 8.476e−10 ± 9.061e−13
1
0.8
0.6
0.4
0.2
0

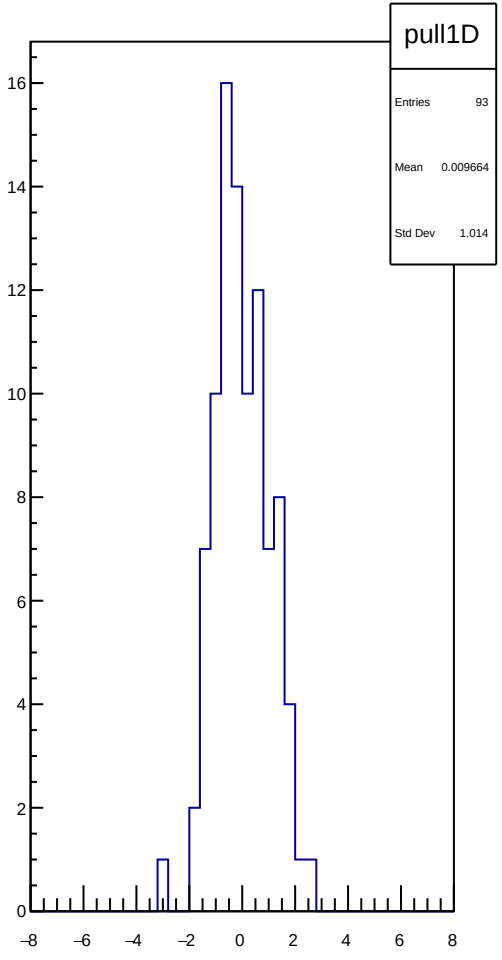

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 92
p0 −0.2434 ± 0.2105
pull
Entries 93
Mean 25.09
Std Dev 0
pull1D
Entries 93
Mean 0.01521
Std Dev 0.8336

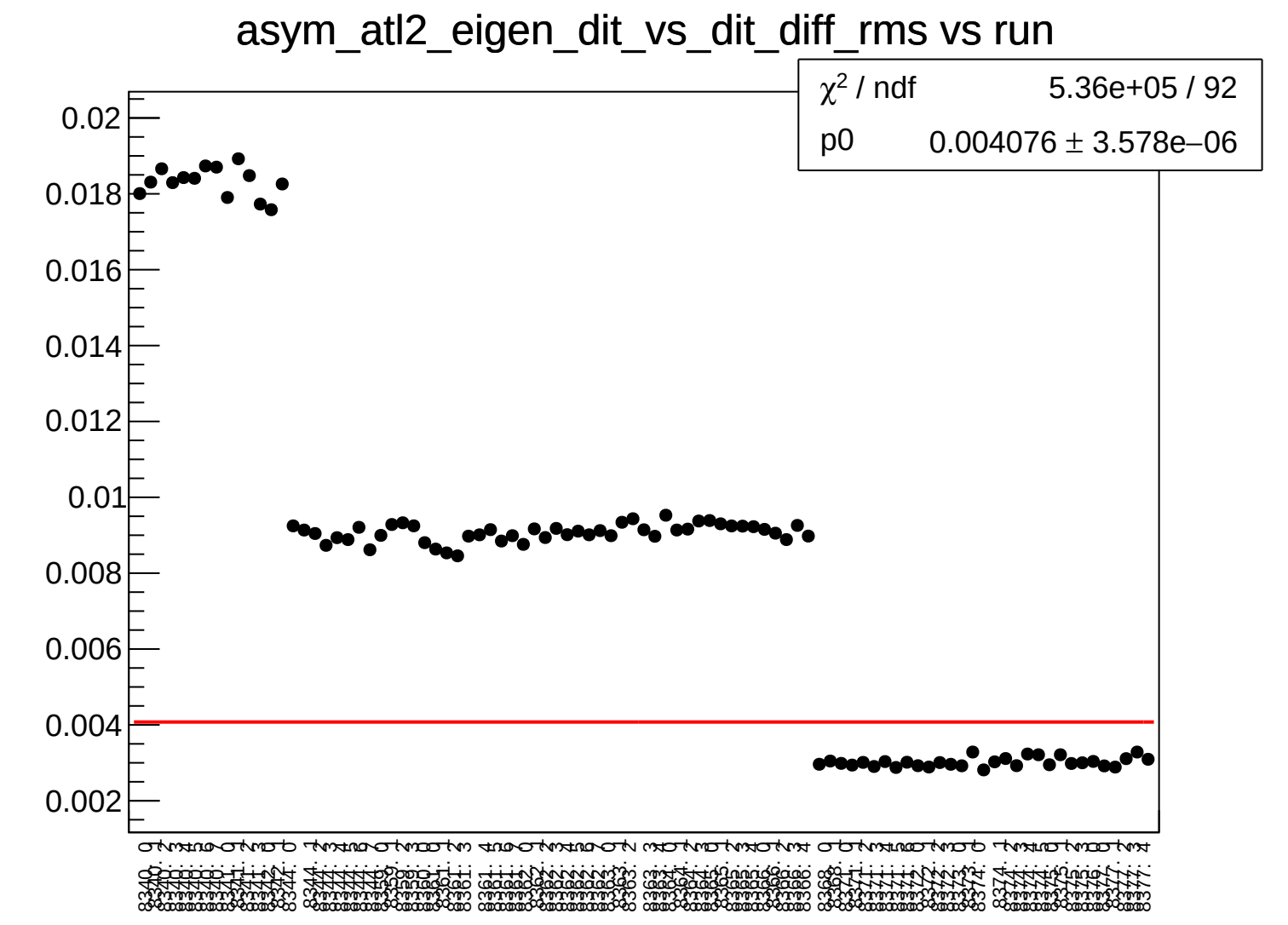

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 4.232e+04 / 92
p0 199.2 ± 0.1489
280
260
240
220
200
180
160
140

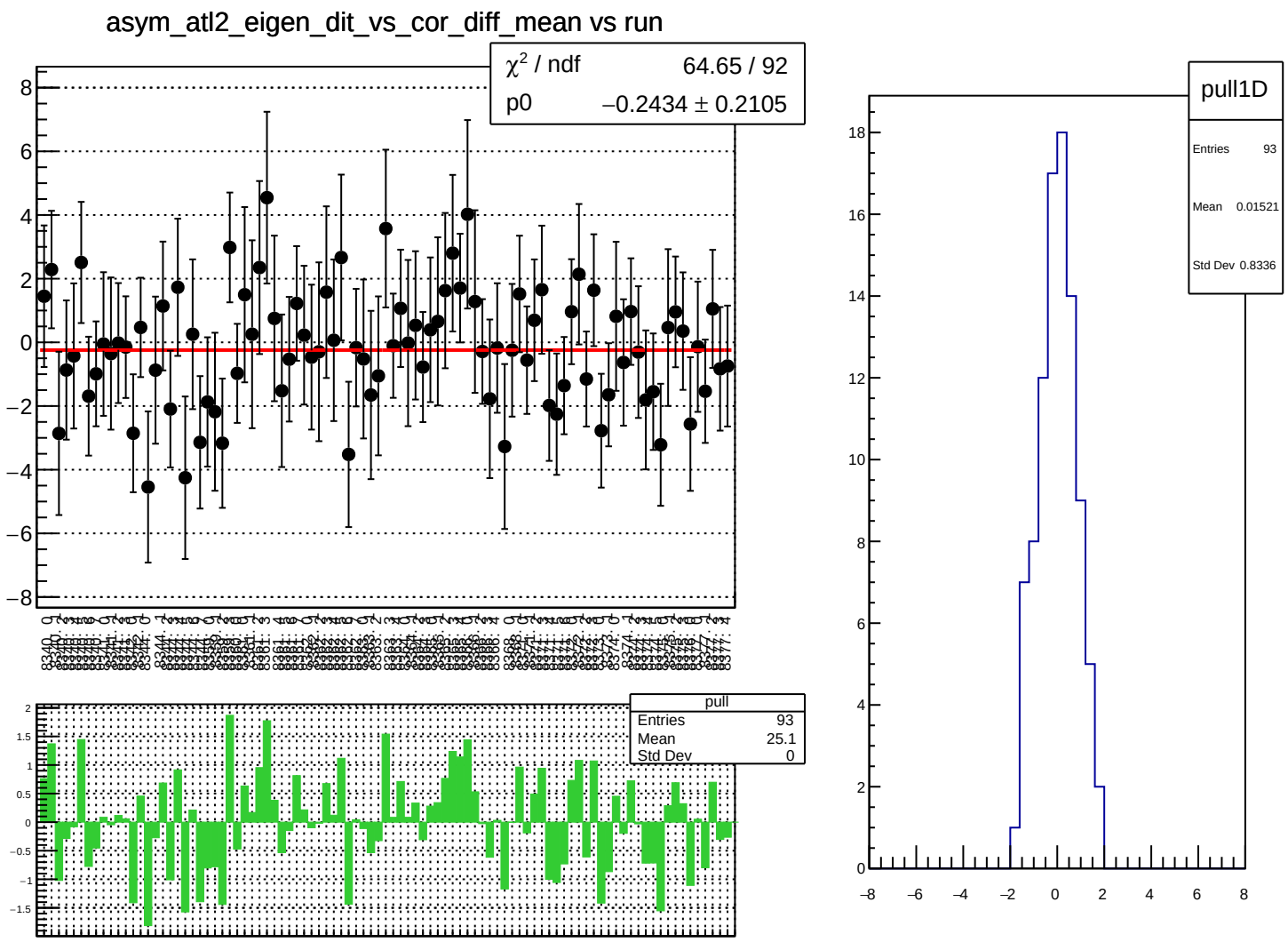

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.65 / 92
p0 −0.2434 ± 0.2105
pull
Entries 93
Mean 25.09
Std Dev 0
pull1D
Entries 93
Mean 0.01521
Std Dev 0.8336

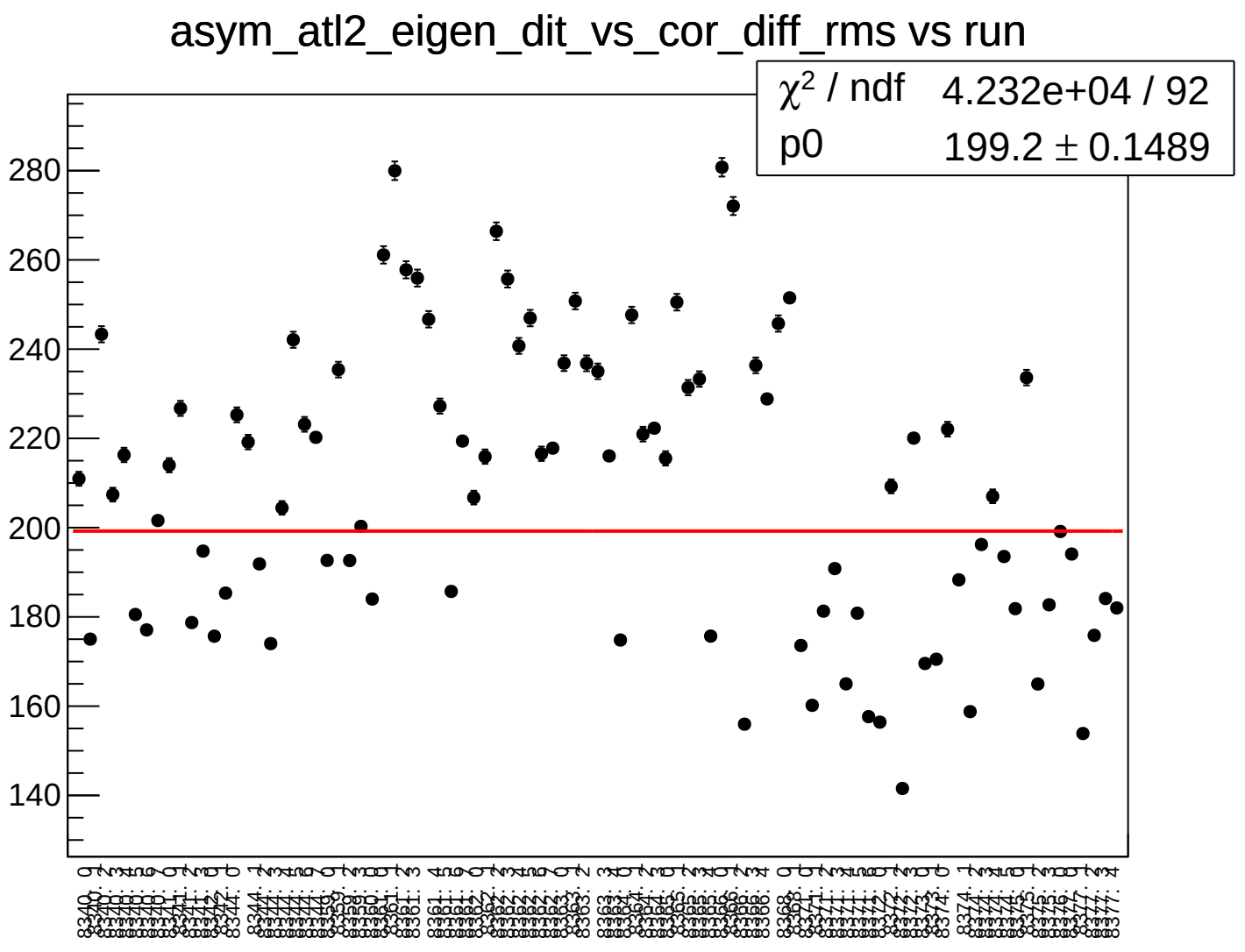

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.232e+04 / 92
p0 199.2 ± 0.1489
280
260
240
220
200
180
160
140

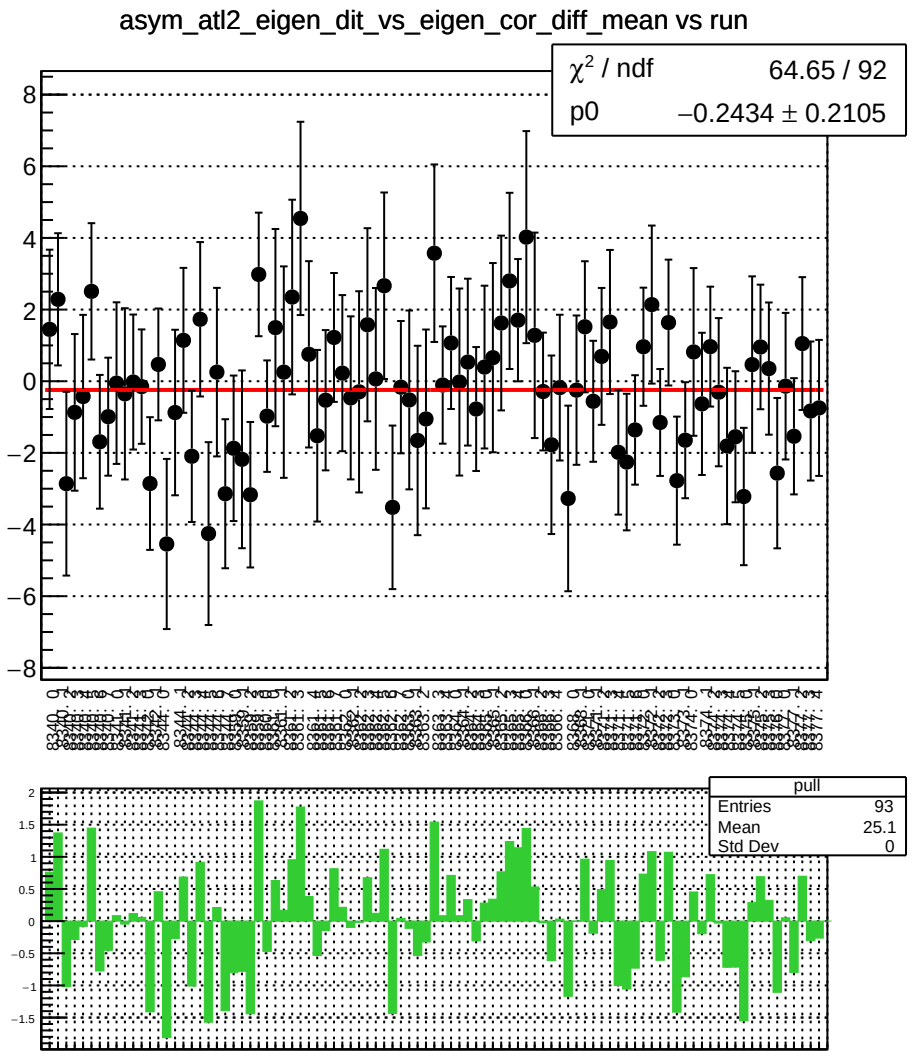

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.66 / 92
p0 4.557e−07 ± 5.06e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 109.3
Std Dev 0
2
1
0
−1
−2
−3

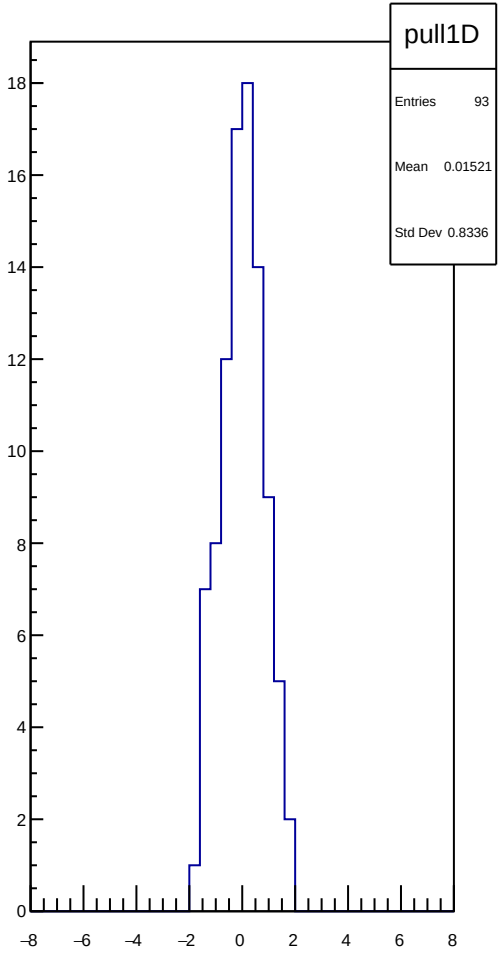

pull1D
Entries 93
Mean 0.009664
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

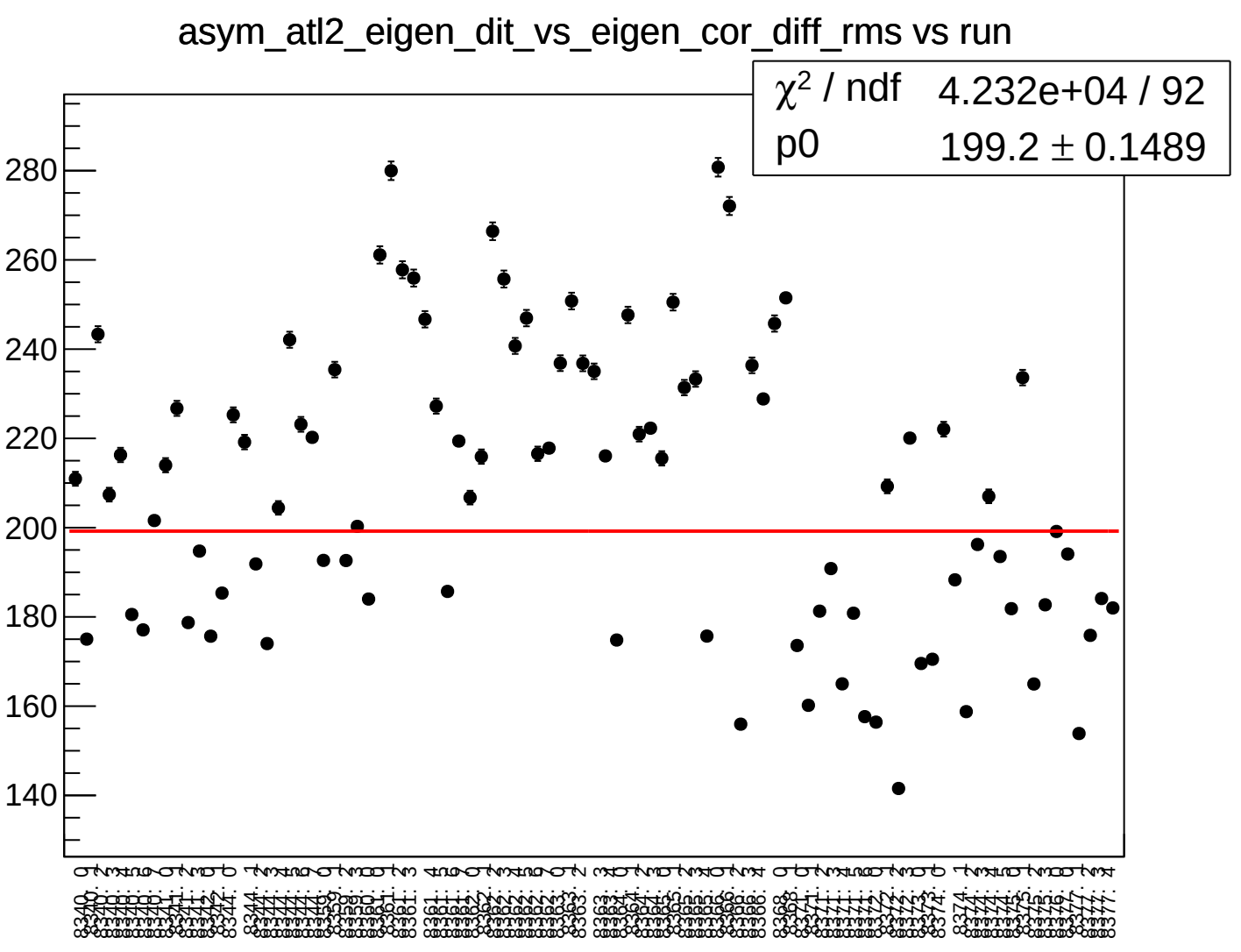

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.36e+05 / 92
p0 0.004076 ± 3.578e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

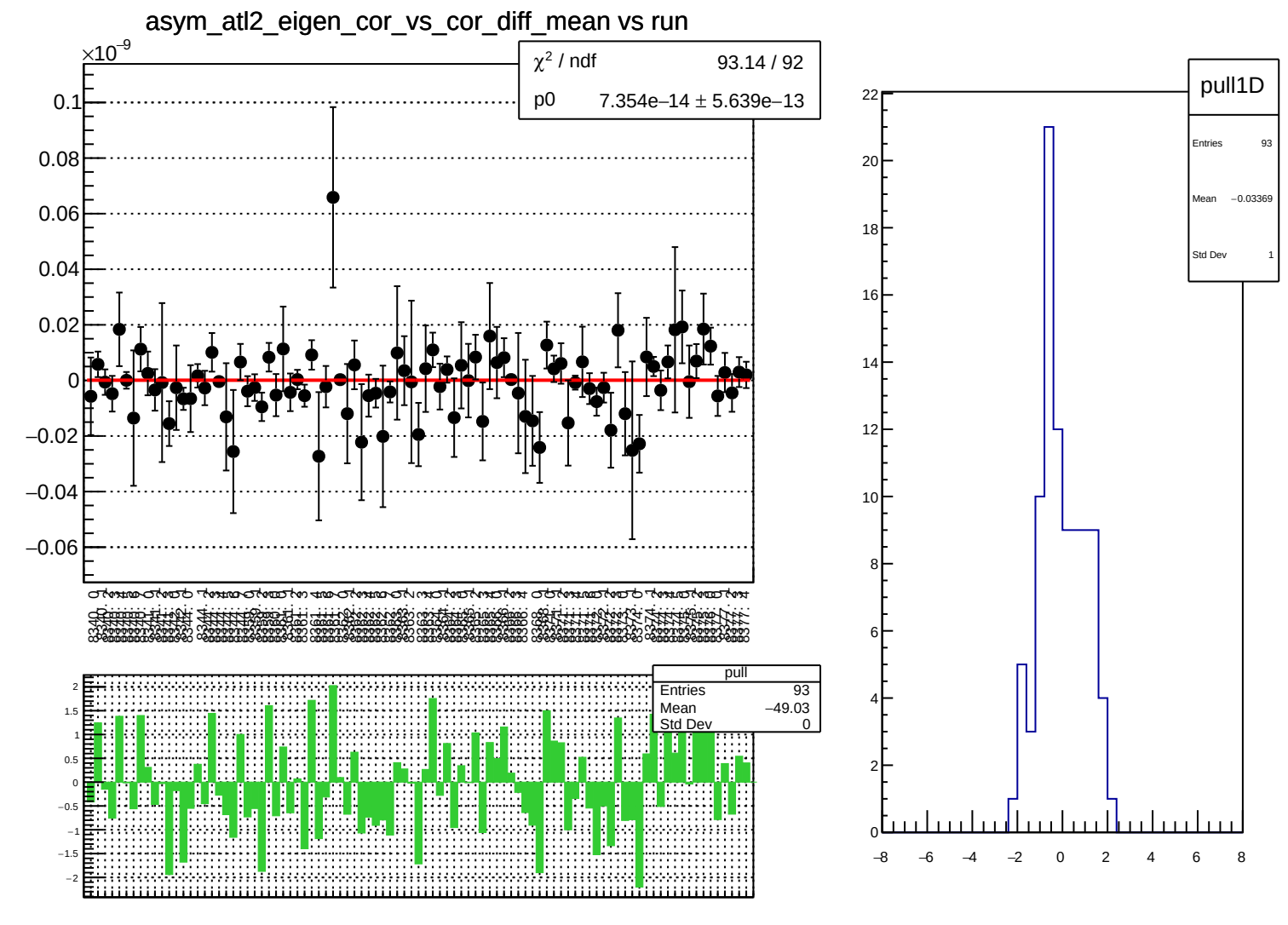

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 92
p0 −0.2434 ± 0.2105
pull
Entries 93
Mean 25.1
Std Dev 0
pull1D
Entries 93
Mean 0.01521
Std Dev 0.8336

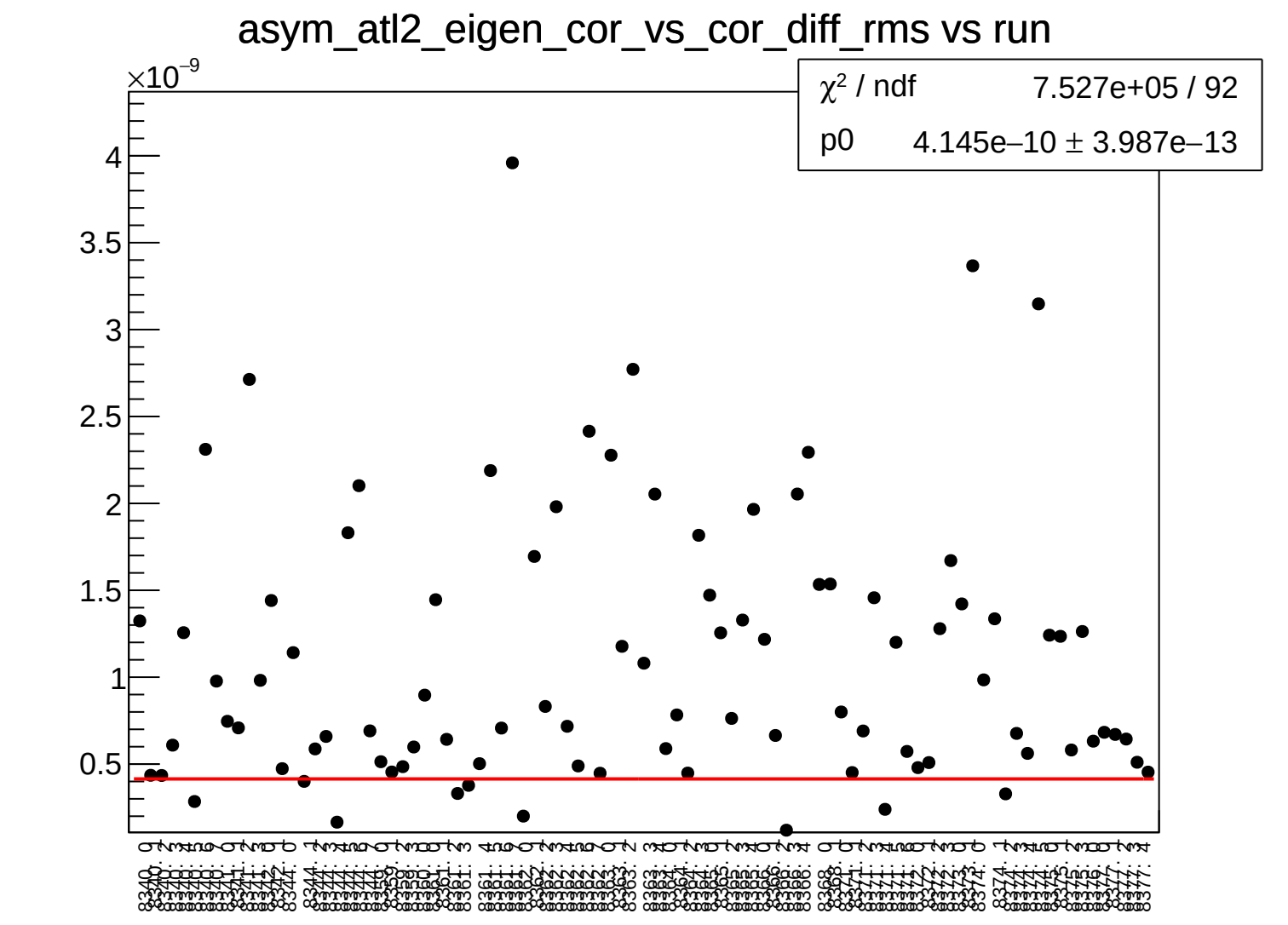

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.232e+04 / 92
p0 199.2 ± 0.1489
280
260
240
220
200
180
160
140

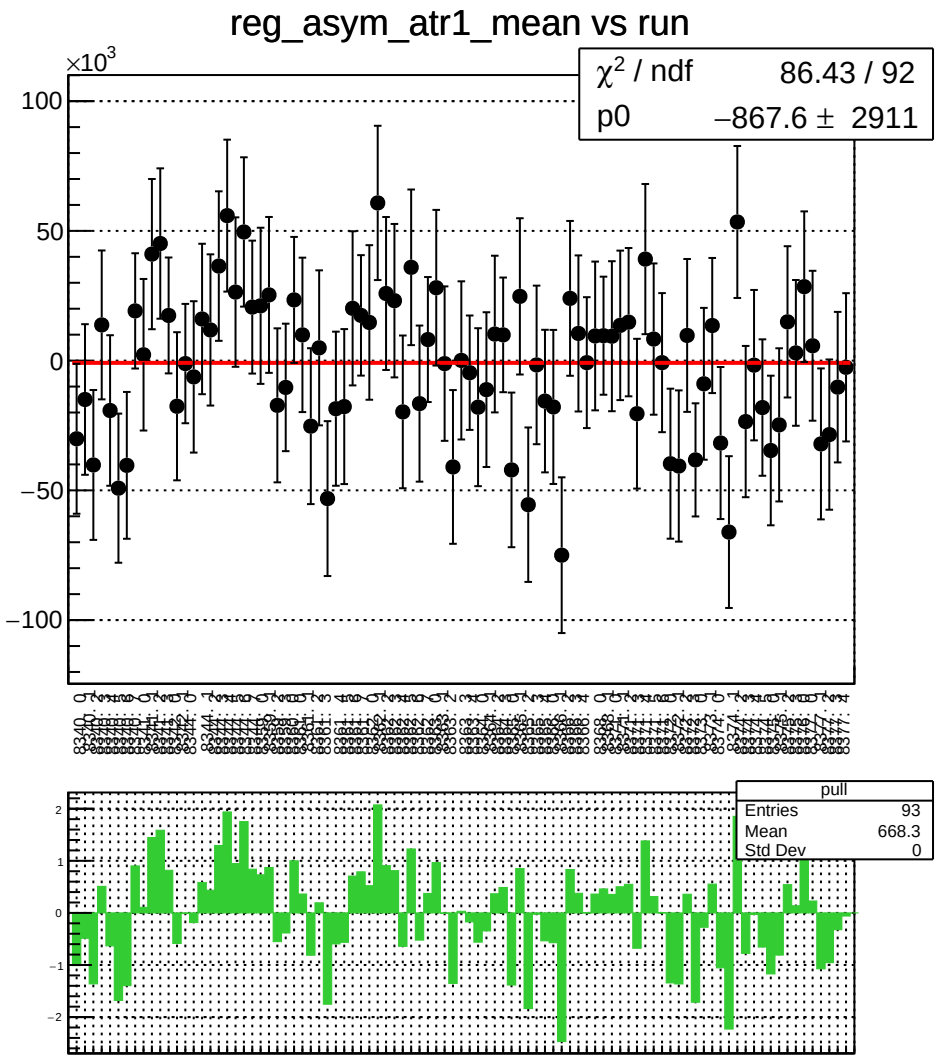

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.65 / 92
p0 −0.2434 ± 0.2105
pull
Entries 93
Mean 25.1
Std Dev 0

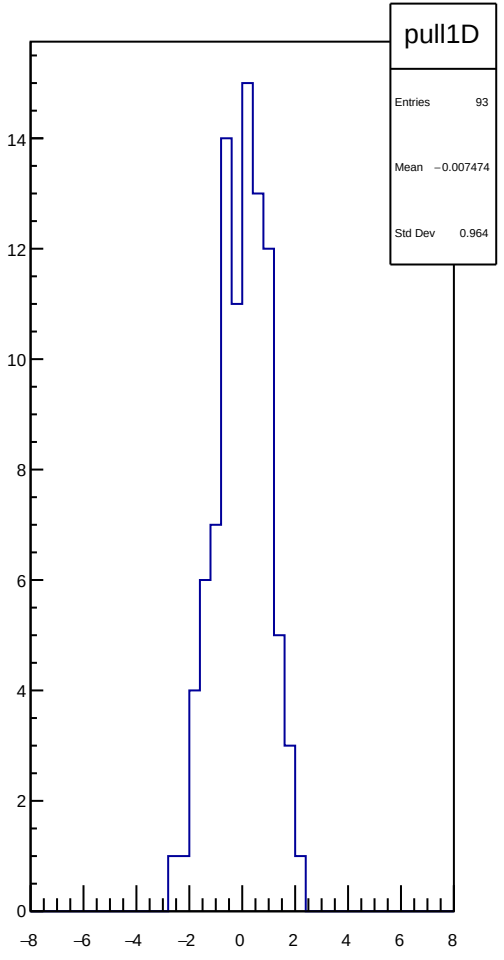

pull1D
Entries 93
Mean 0.01521
Std Dev 0.8336

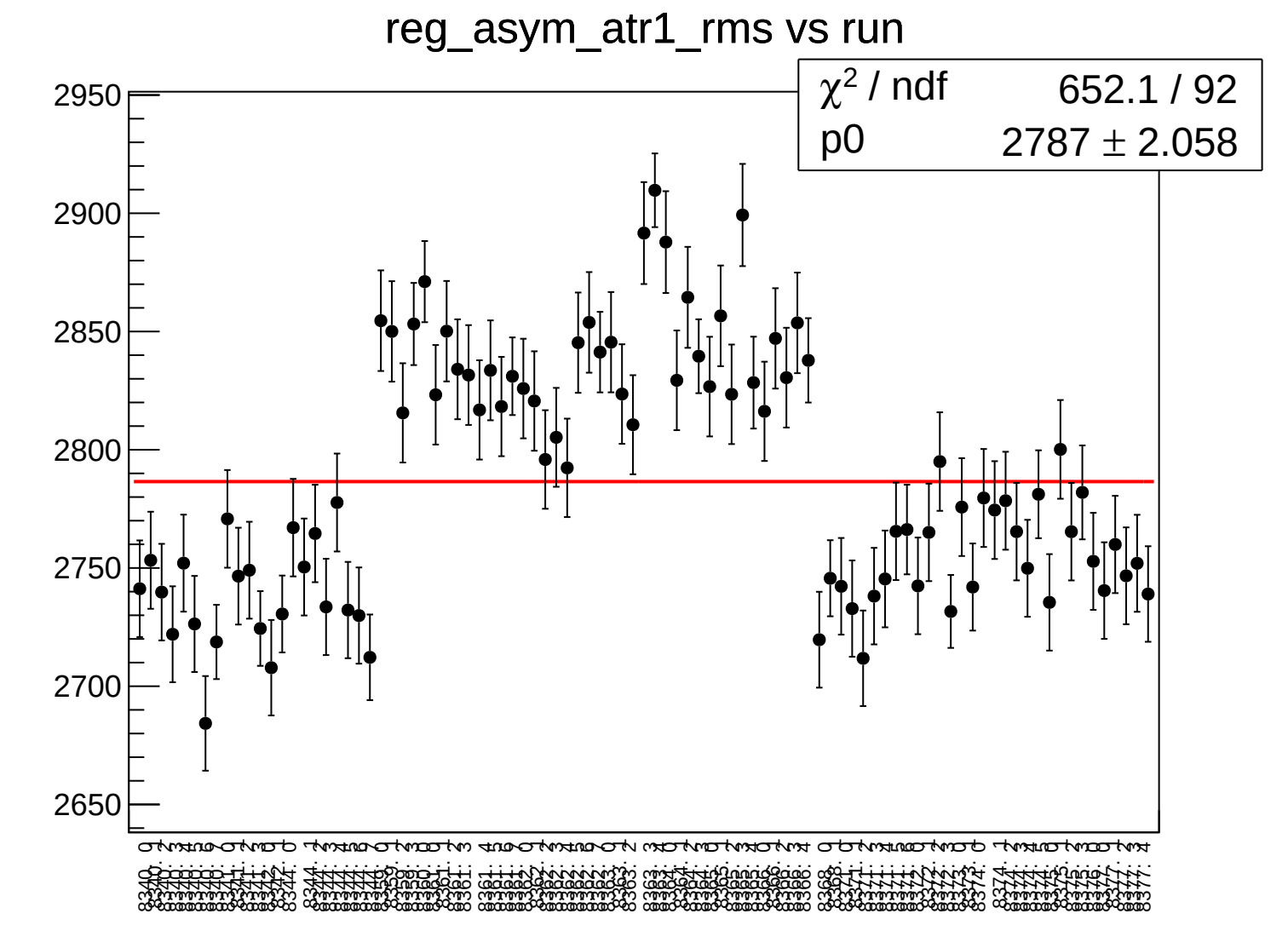

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.232e+04 / 92
p0 199.2 ± 0.1489
280
260
240
220
200
180
160
140

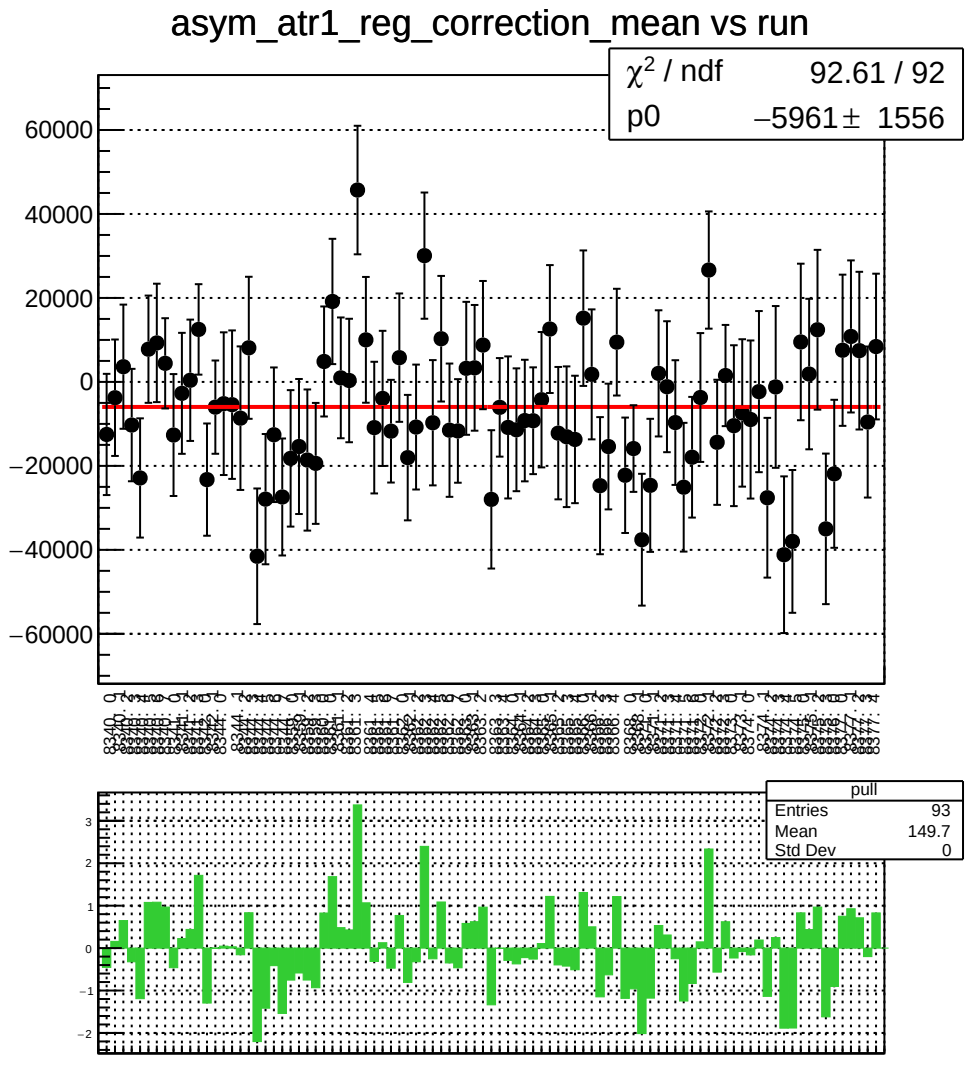

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 93.14 / 92
p0 7.354e−14 ± 5.639e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −49.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.03369
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

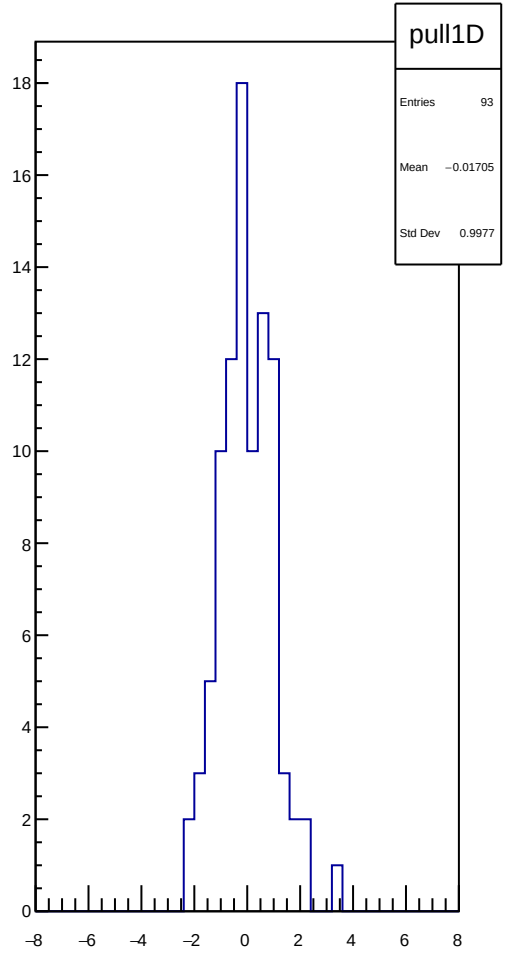

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.527e+05 / 92
p0 4.145e−10 ± 3.987e−13
4
3.5
3
2.5
2
1.5
1
0.5

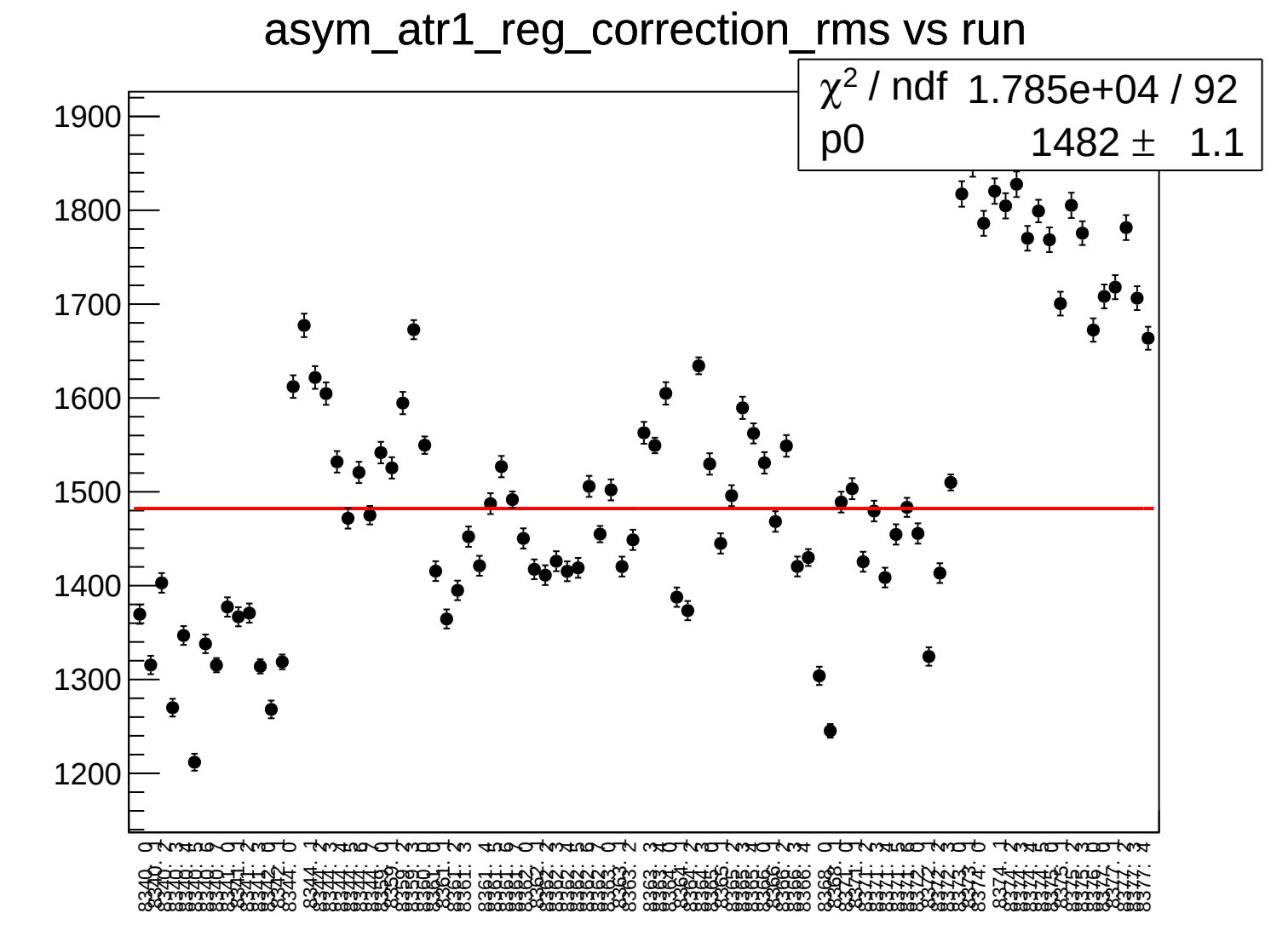

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 86.43 / 92
p0 −867.6 ± 2911
100
50
0
−50
−100
pull
Entries 93
Mean 668.3
Std Dev 0
2
1
0
−1
−2

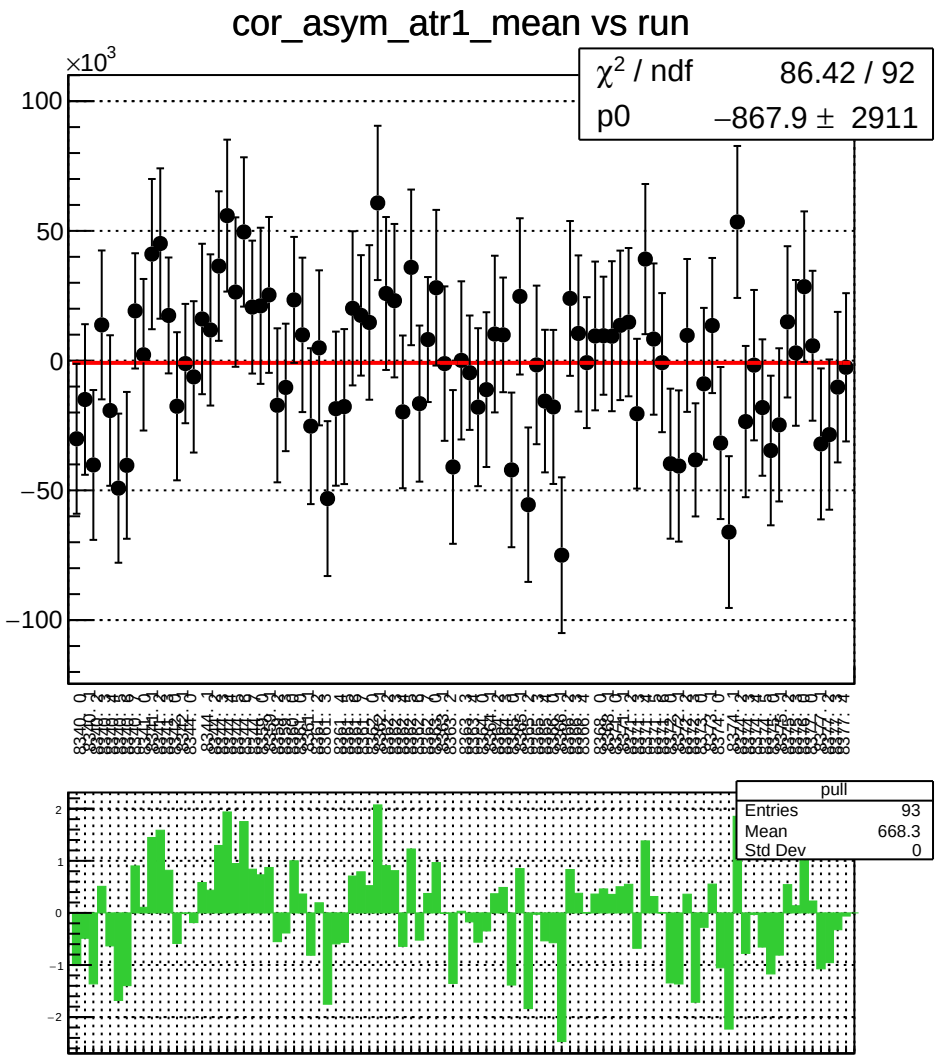

pull1D
Entries 93
Mean −0.007474
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

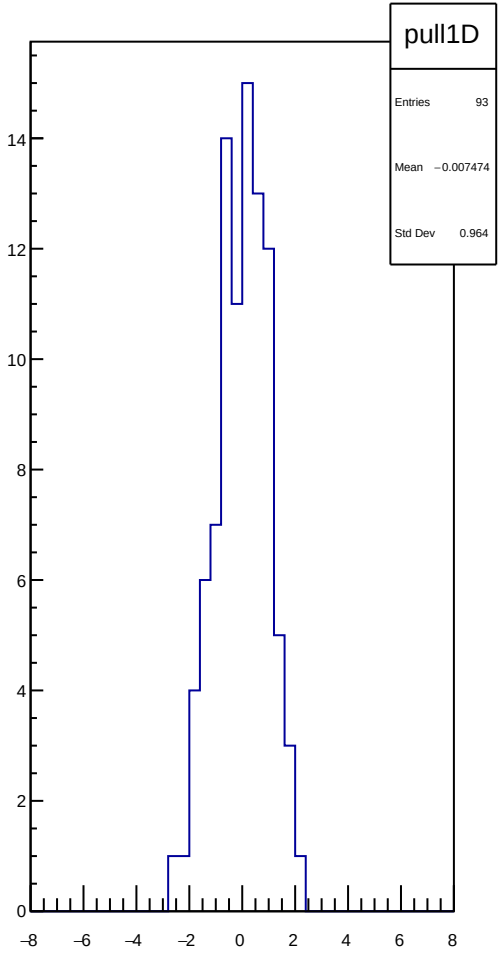

reg_asym_atr1_rms vs run
χ² / ndf 652.1 / 92
p0 2787 ± 2.058
2950
2900
2850
2800
2750
2700
2650

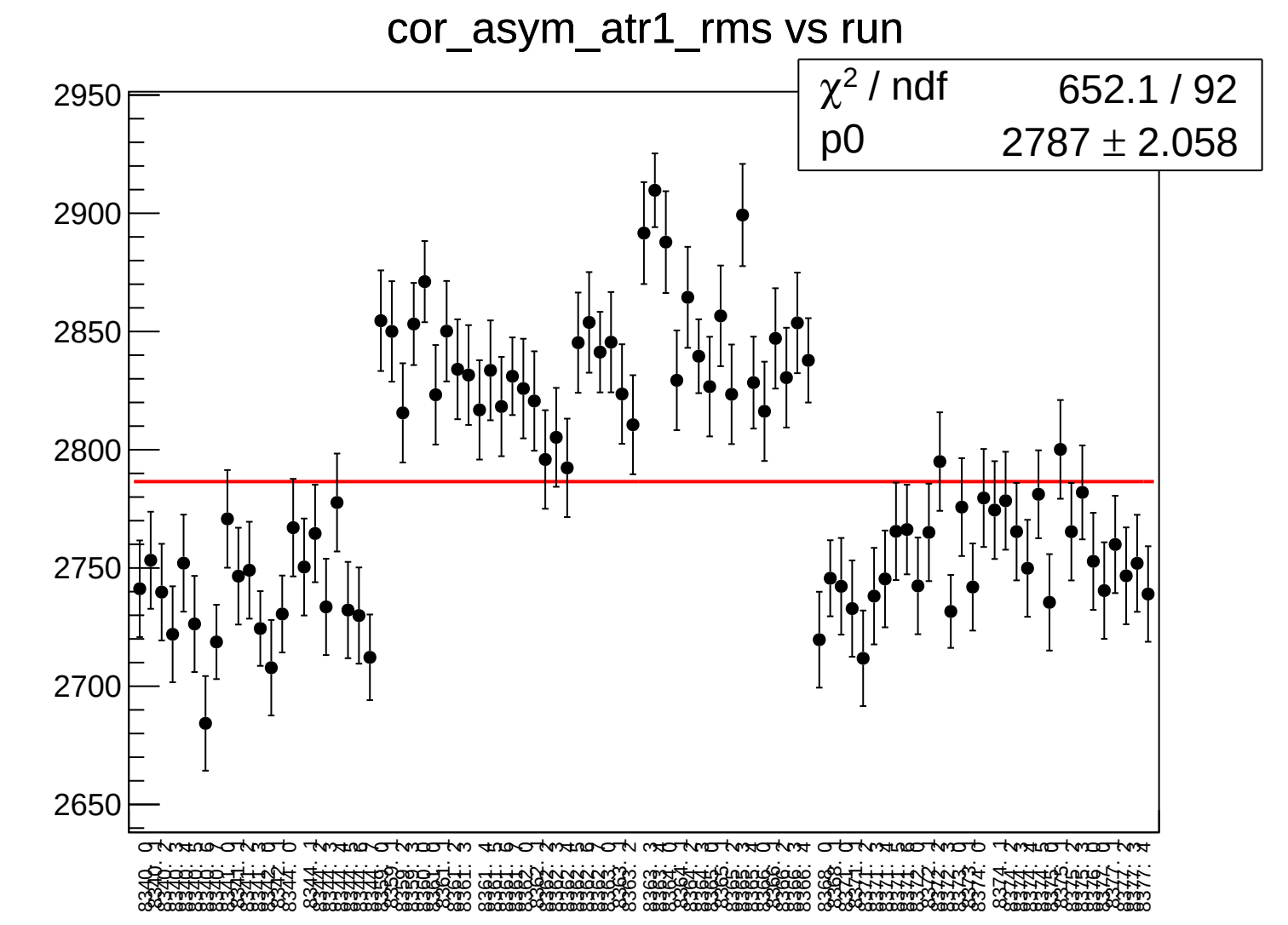

asym_atr1_reg_correction_mean vs run
χ² / ndf 92.61 / 92
p0 −5961 ± 1556
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2

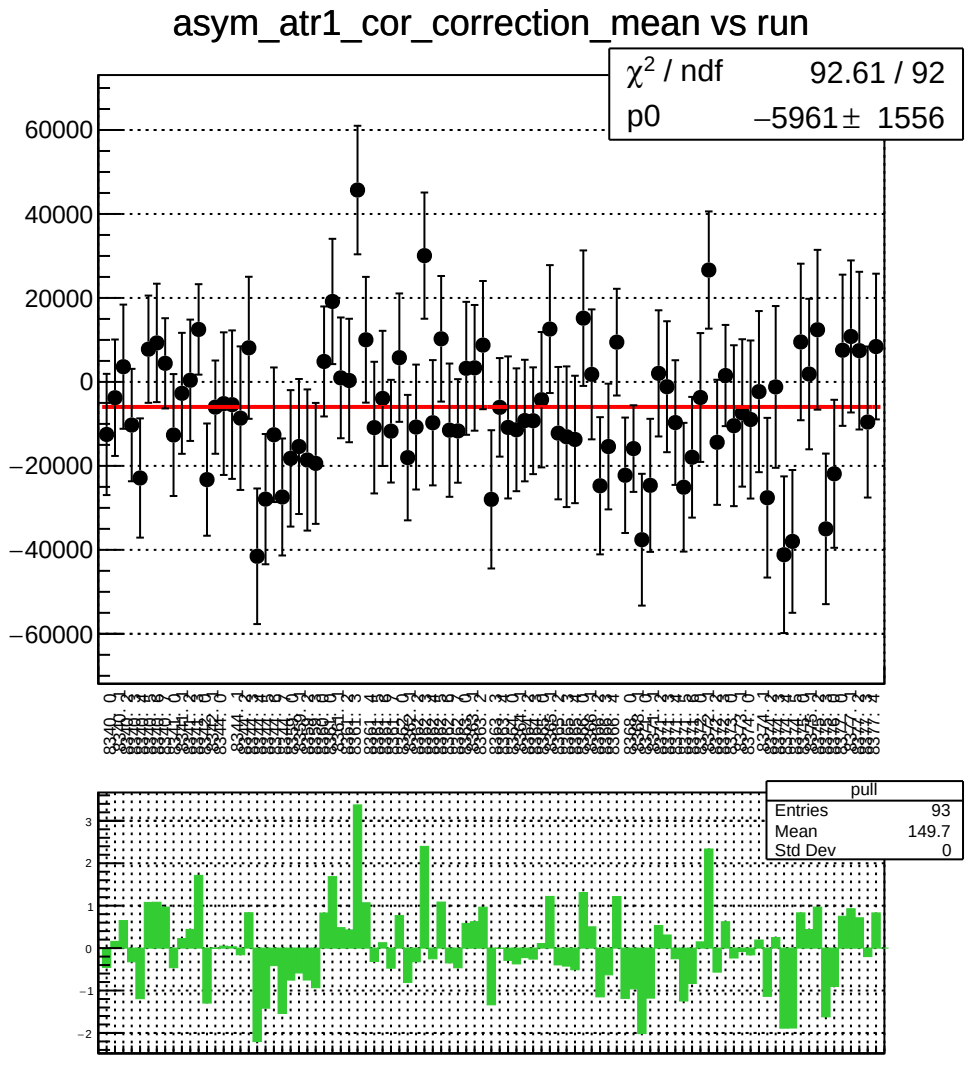

pull1D
Entries 93
Mean −0.01705
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

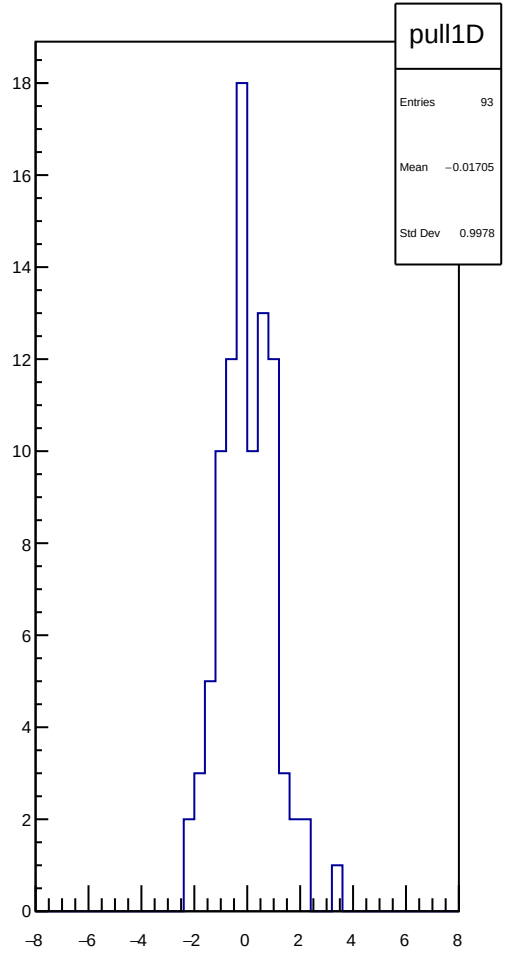

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1482 ± 1.1
1900
1800
1700
1600
1500
1400
1300
1200

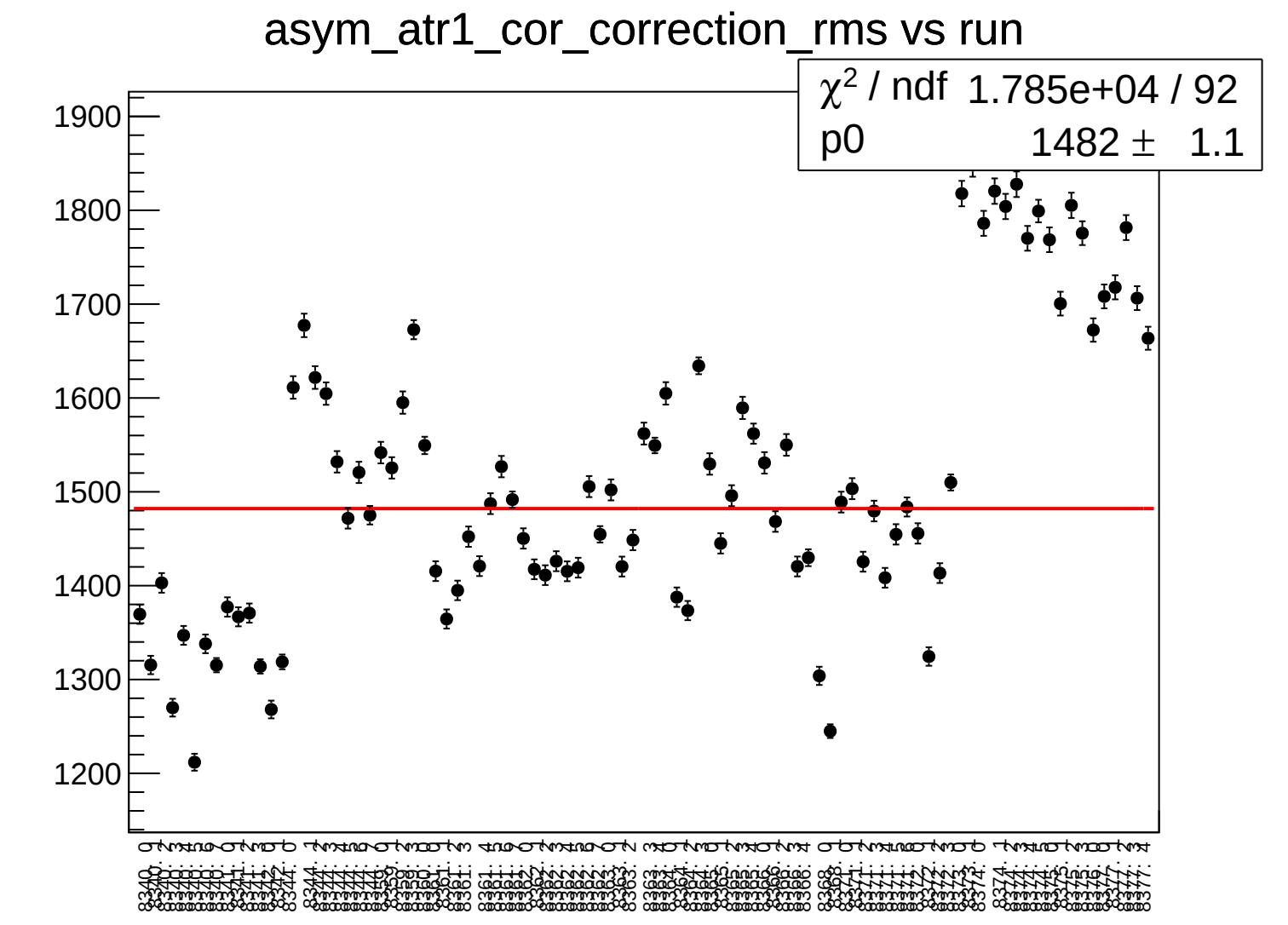

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 86.42 / 92
p0 −867.9 ± 2911
100
50
0
−50
−100
pull
Entries 93
Mean 668.3
Std Dev 0
2
1
0
−1
−2

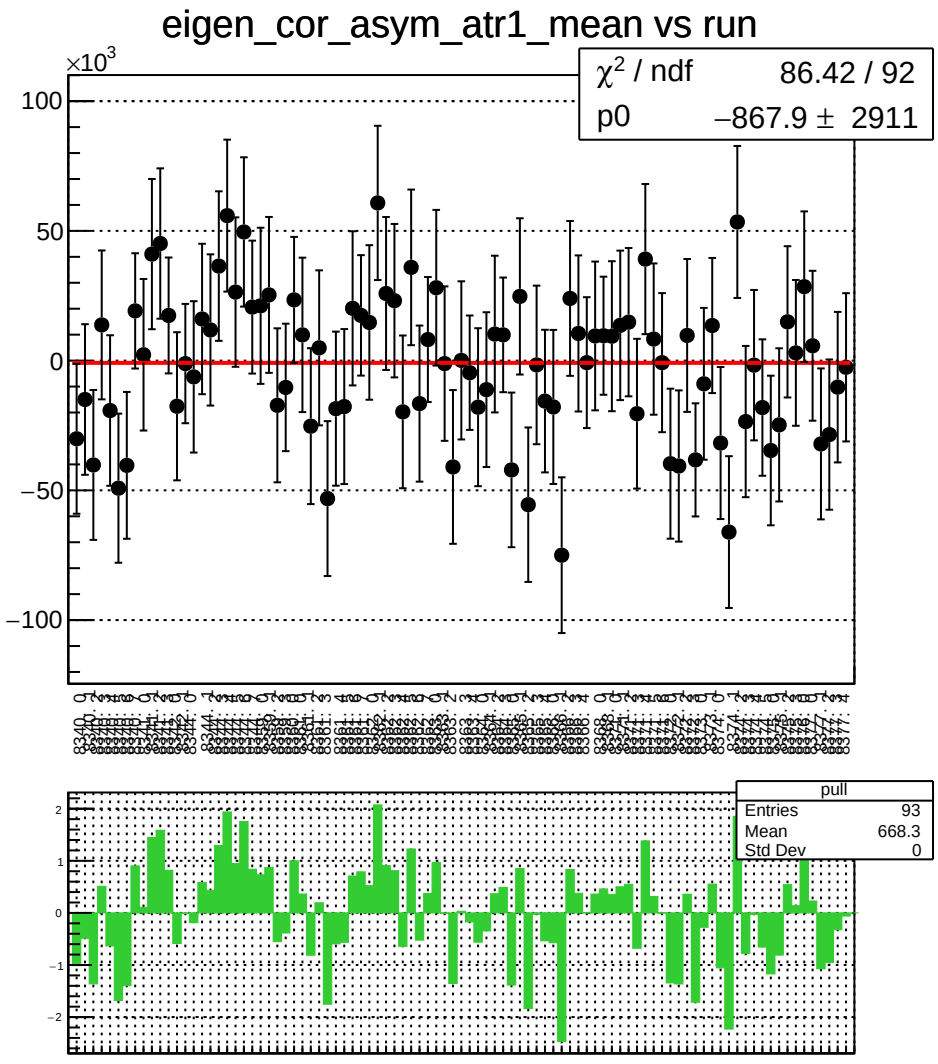

pull1D
Entries 93
Mean −0.007474
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

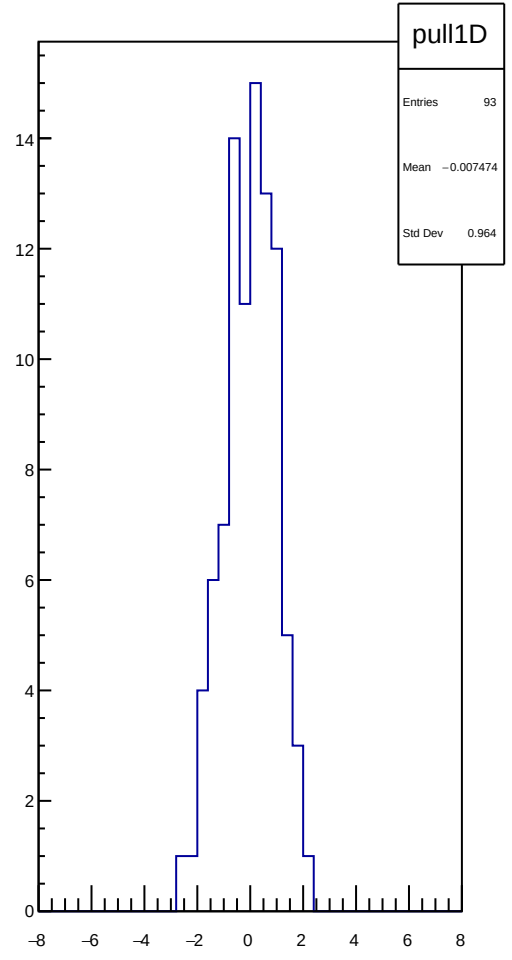

cor_asym_atr1_rms vs run
χ^2 / ndf 652.1 / 92
p0 2787 ± 2.058
2950
2900
2850
2800
2750
2700
2650

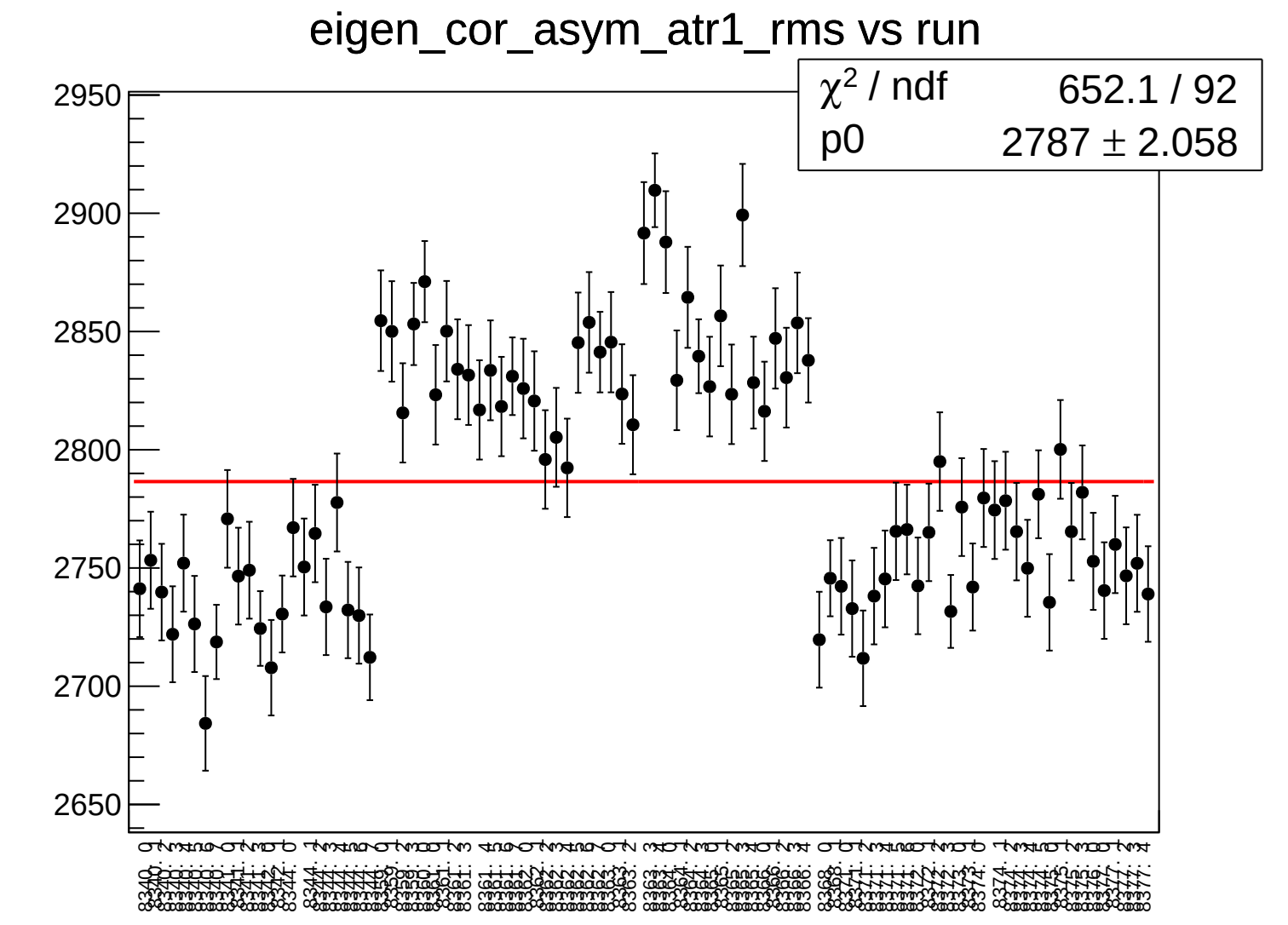

asym_atr1_cor_correction_mean vs run
χ² / ndf 92.61 / 92
p0 −5961 ± 1556
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2

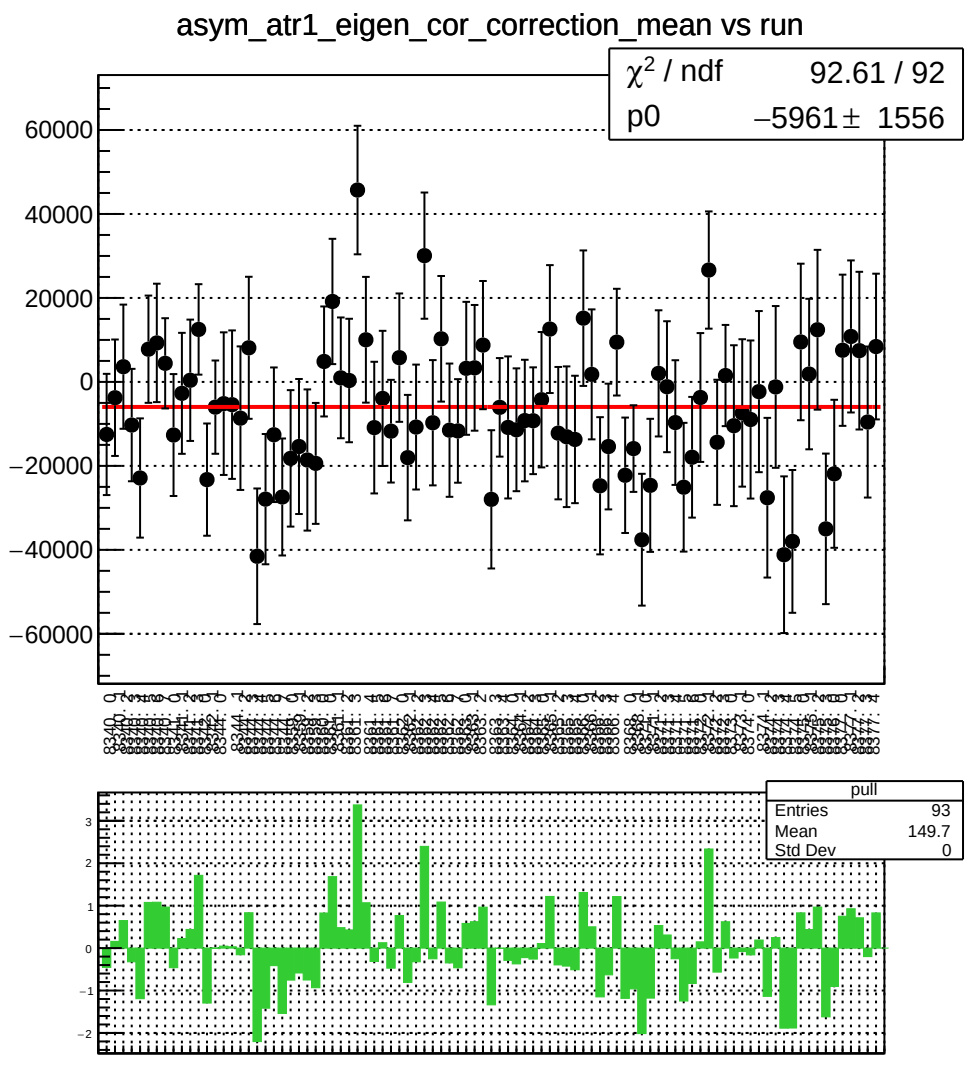

pull1D
Entries 93
Mean −0.01705
Std Dev 0.9978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

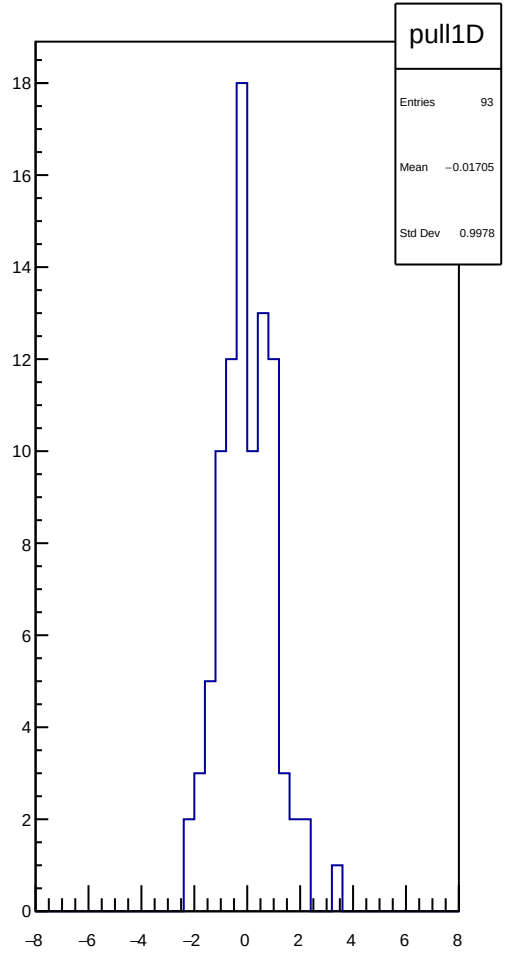

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1482 ± 1.1
1900
1800
1700
1600
1500
1400
1300
1200


eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 86.42 / 92
p0 −867.9 ± 2911
100
50
0
−50
−100
pull
Entries 93
Mean 668.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.007474
Std Dev 0.964
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 652.1 / 92
p0 2787 ± 2.058
2950
2900
2850
2800
2750
2700
2650


asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 92.61 / 92
p0 −5961 ± 1556
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 149.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01705
Std Dev 0.9978
18
16
14
12
10
8
6
4
2
0
−8
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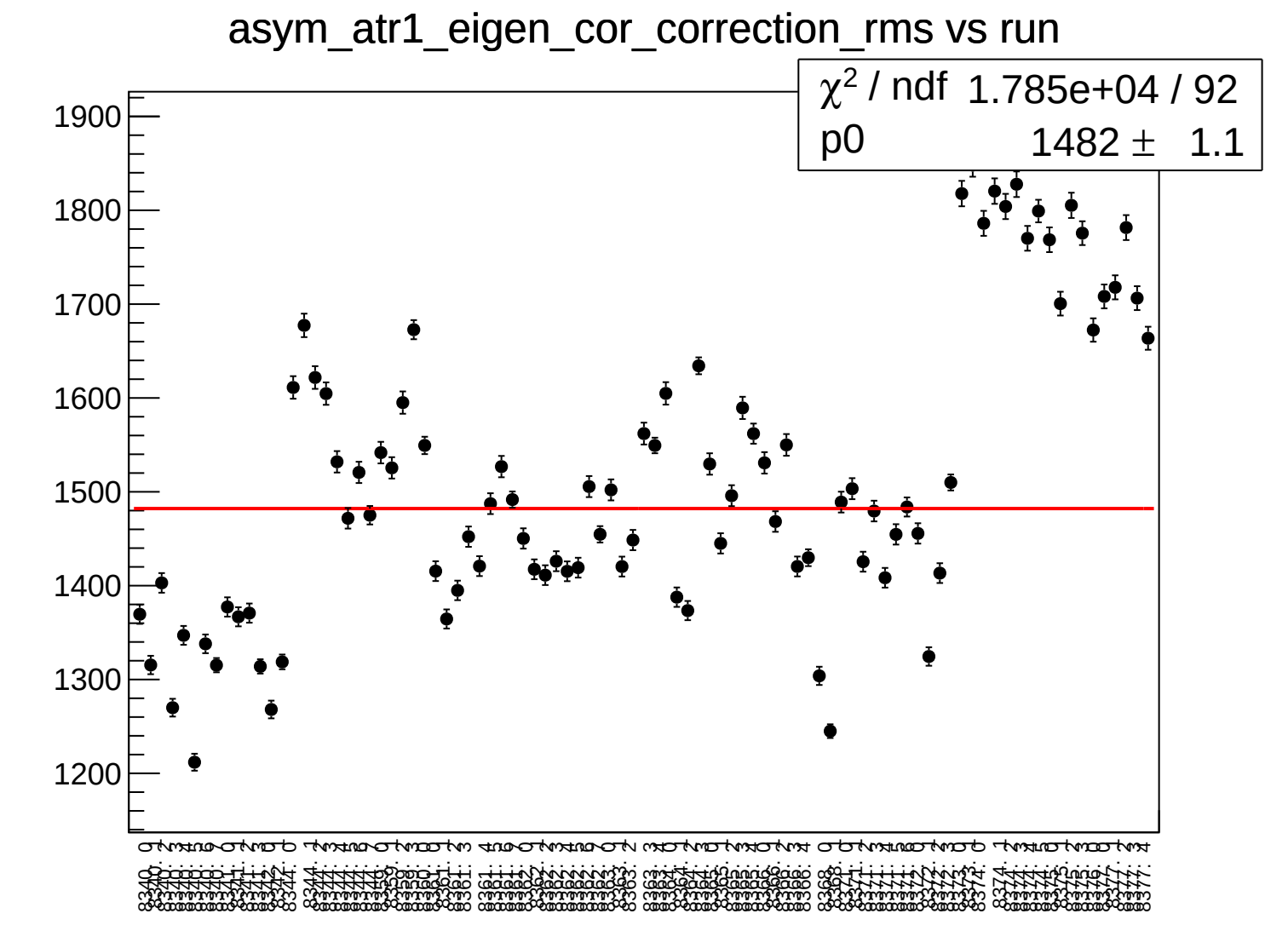
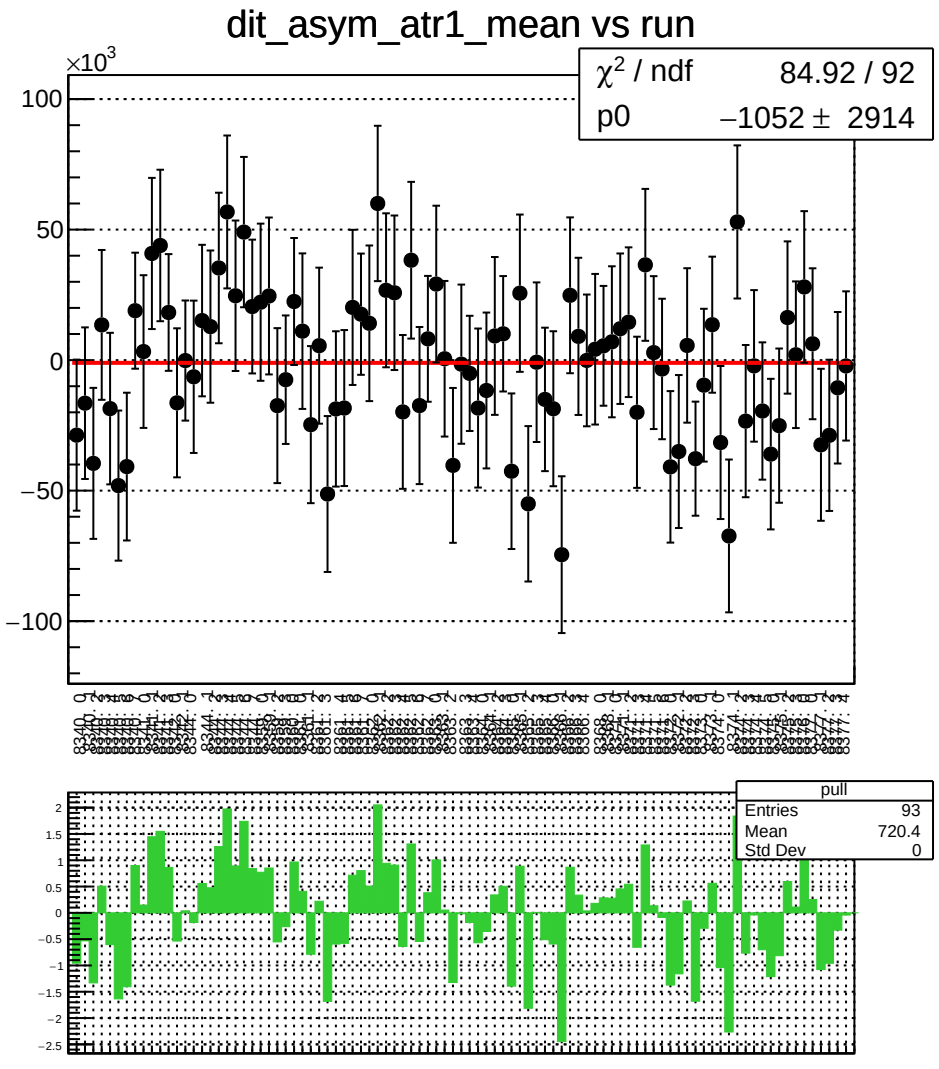
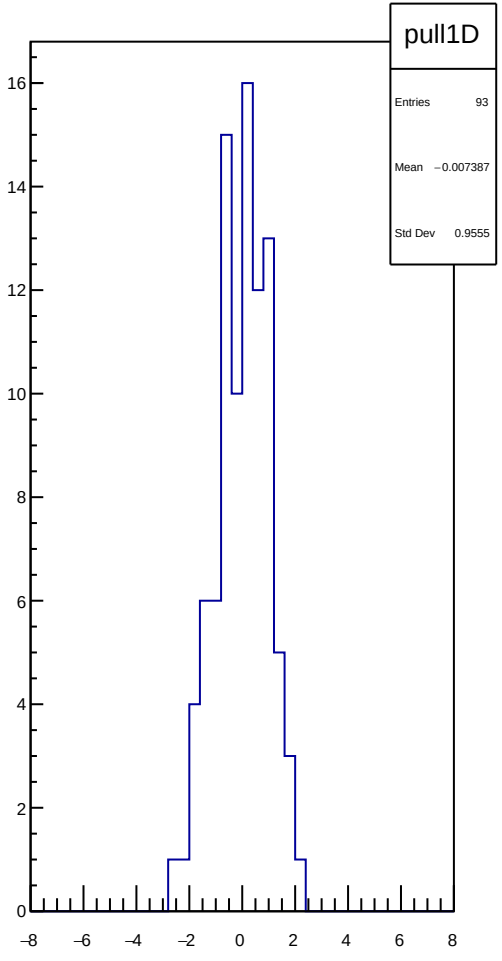
2
4
6
8


asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.785e+04 / 92
p0 1482 ± 1.1
1900
1800
1700
1600
1500
1400
1300
1200


dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 84.92 / 92
p0 −1052 ± 2914
100
50
0
−50
−100
pull
Entries 93
Mean 720.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.007387
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
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−4
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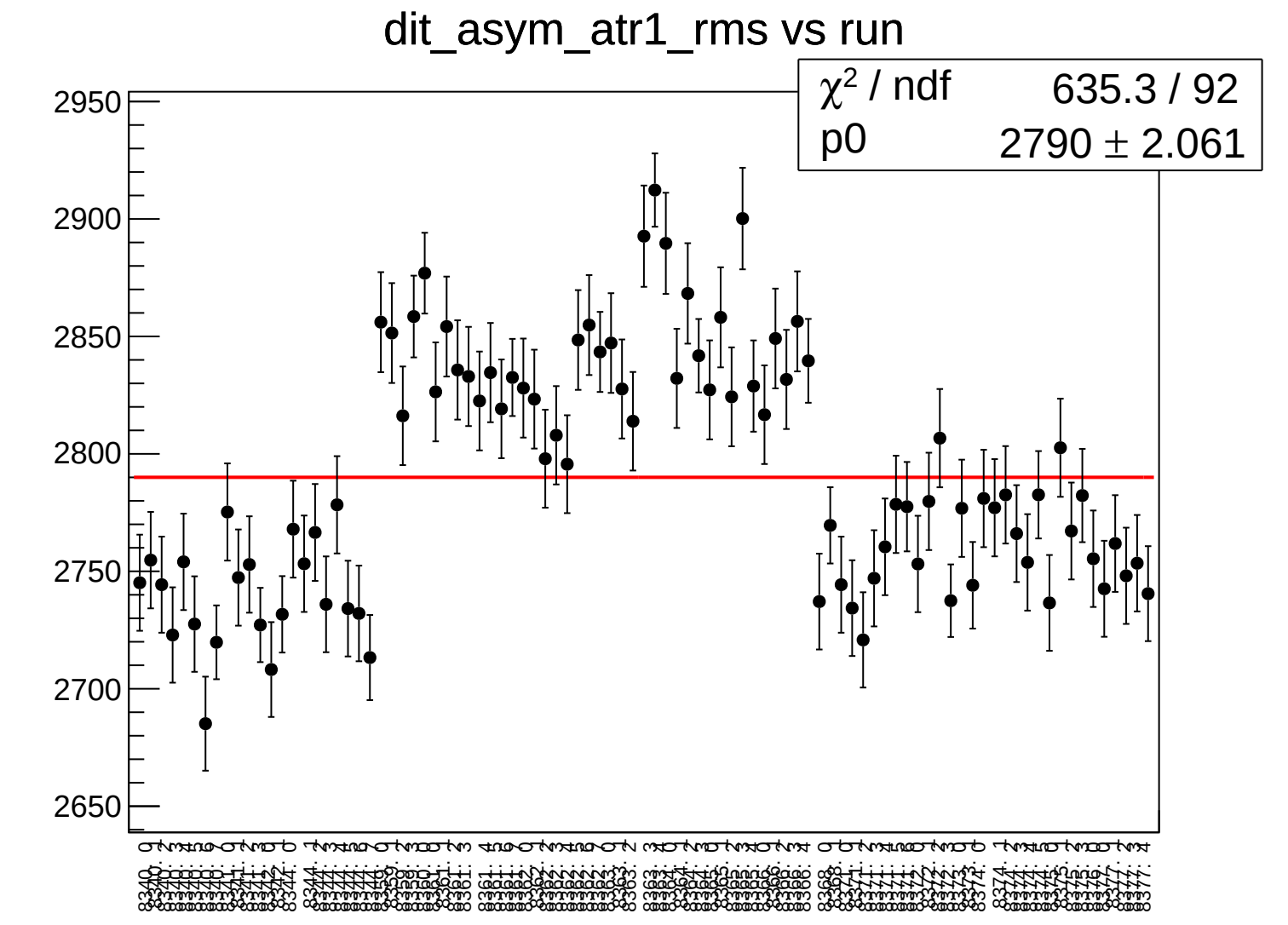
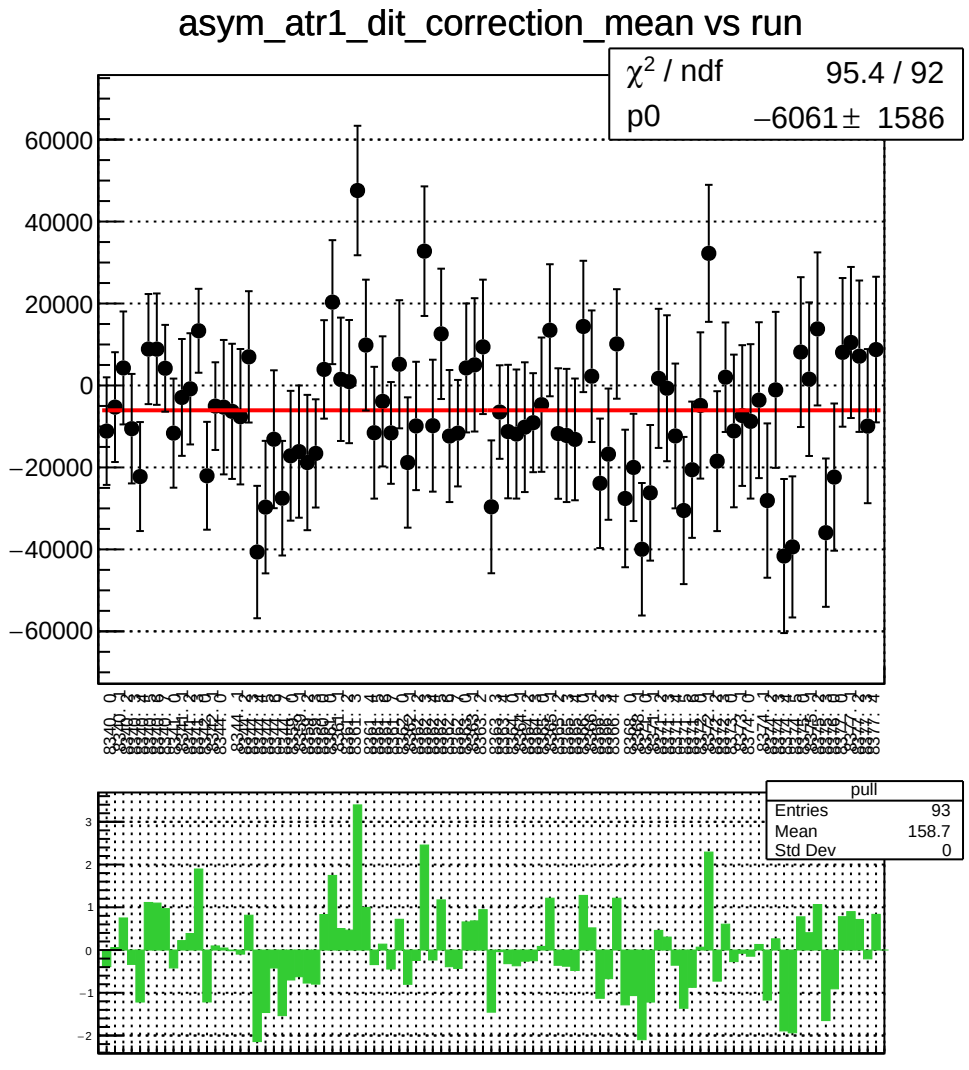
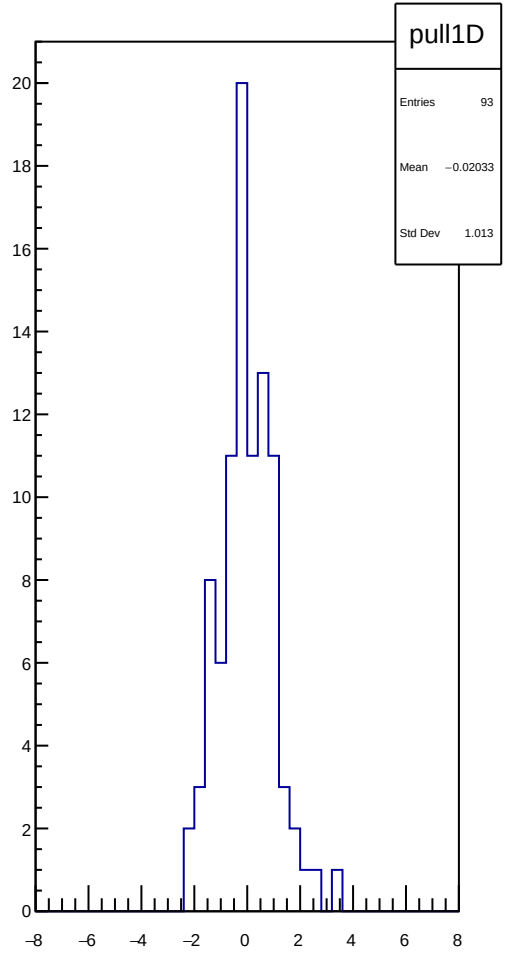
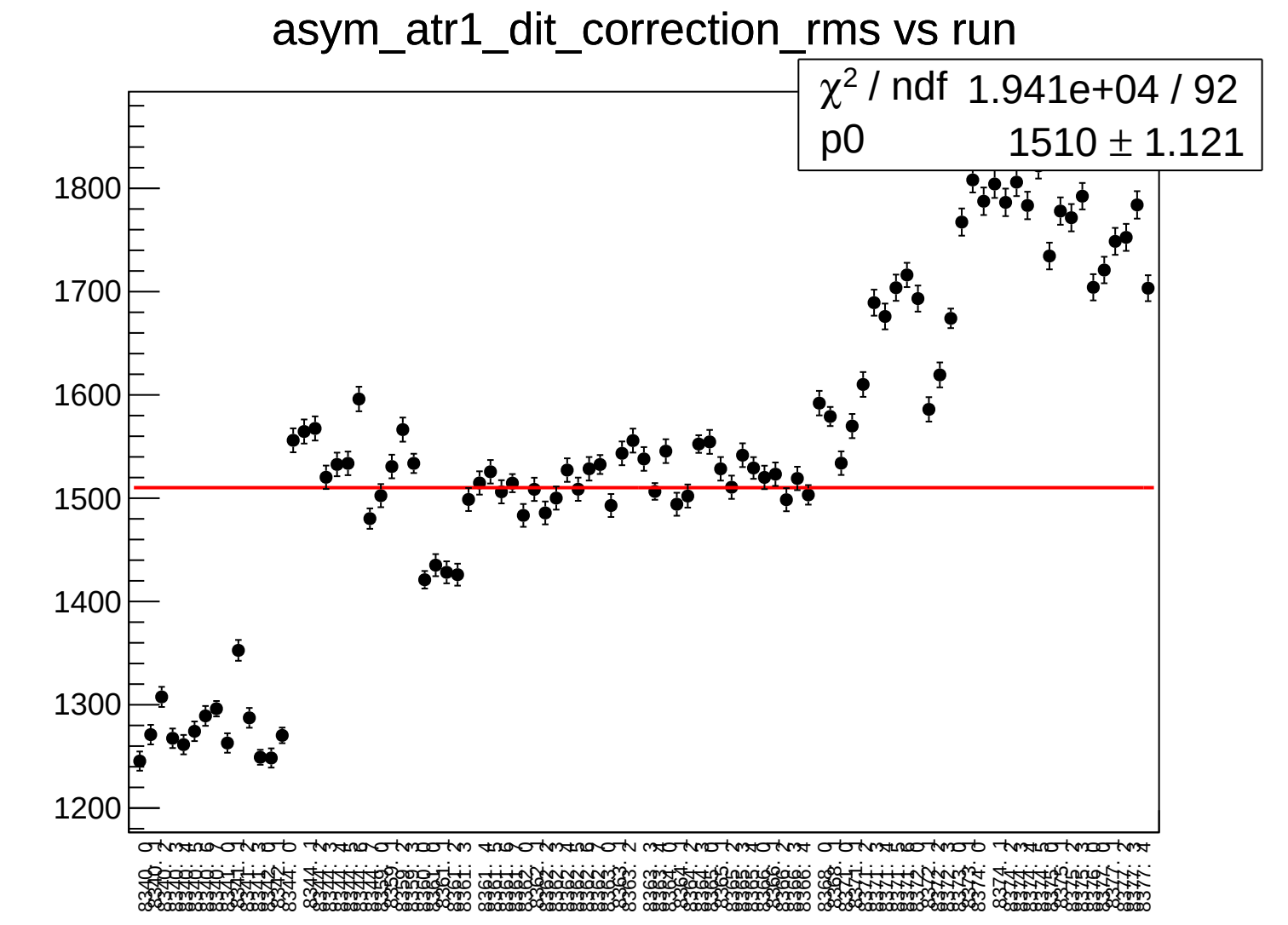
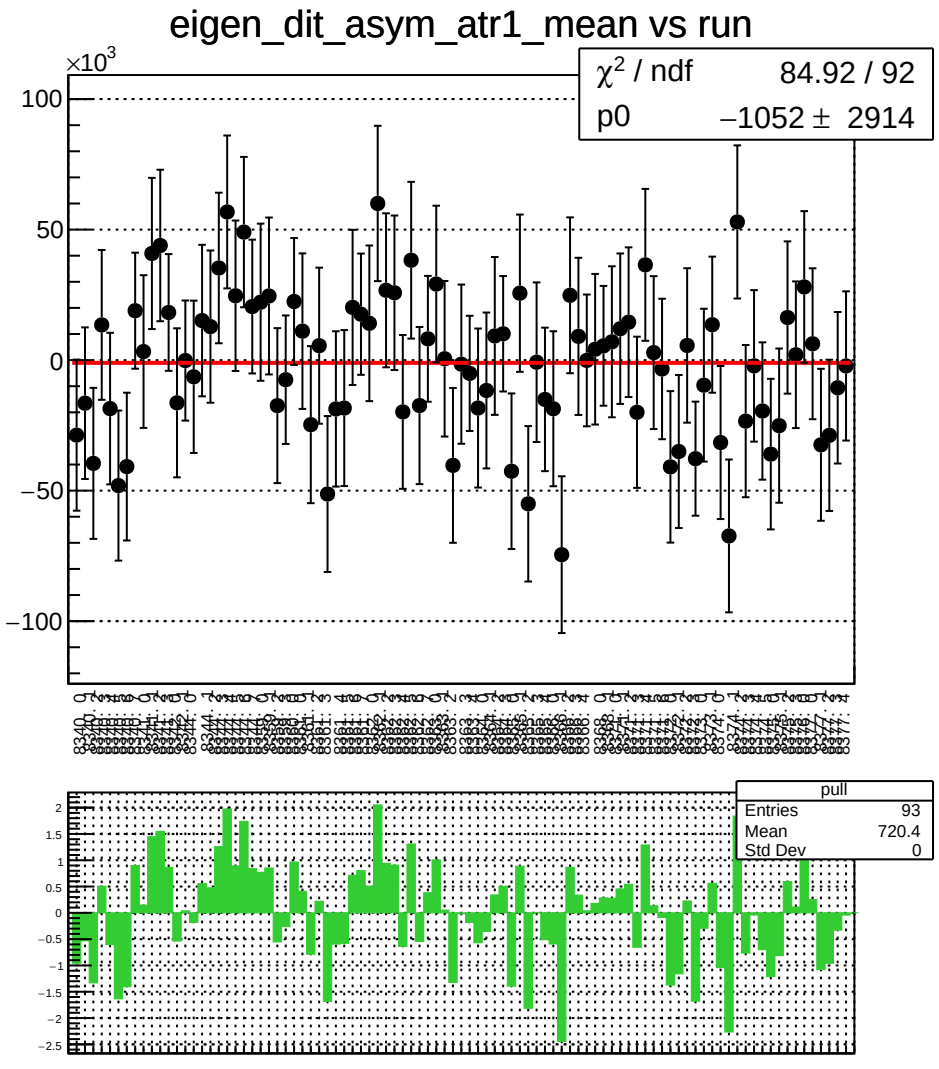
0
2
4
6
8

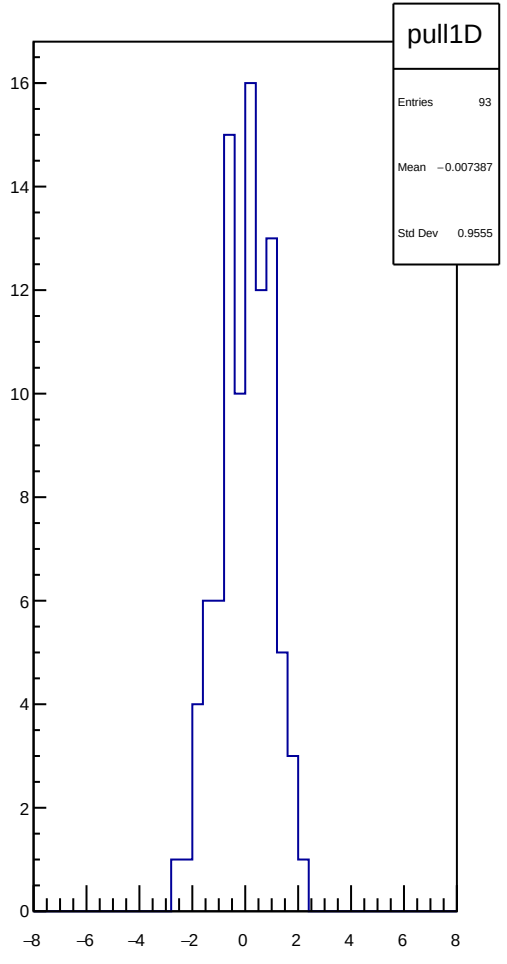

dit_asym_atr1_rms vs run
χ² / ndf 635.3 / 92
p0 2790 ± 2.061
2950
2900
2850
2800
2750
2700
2650

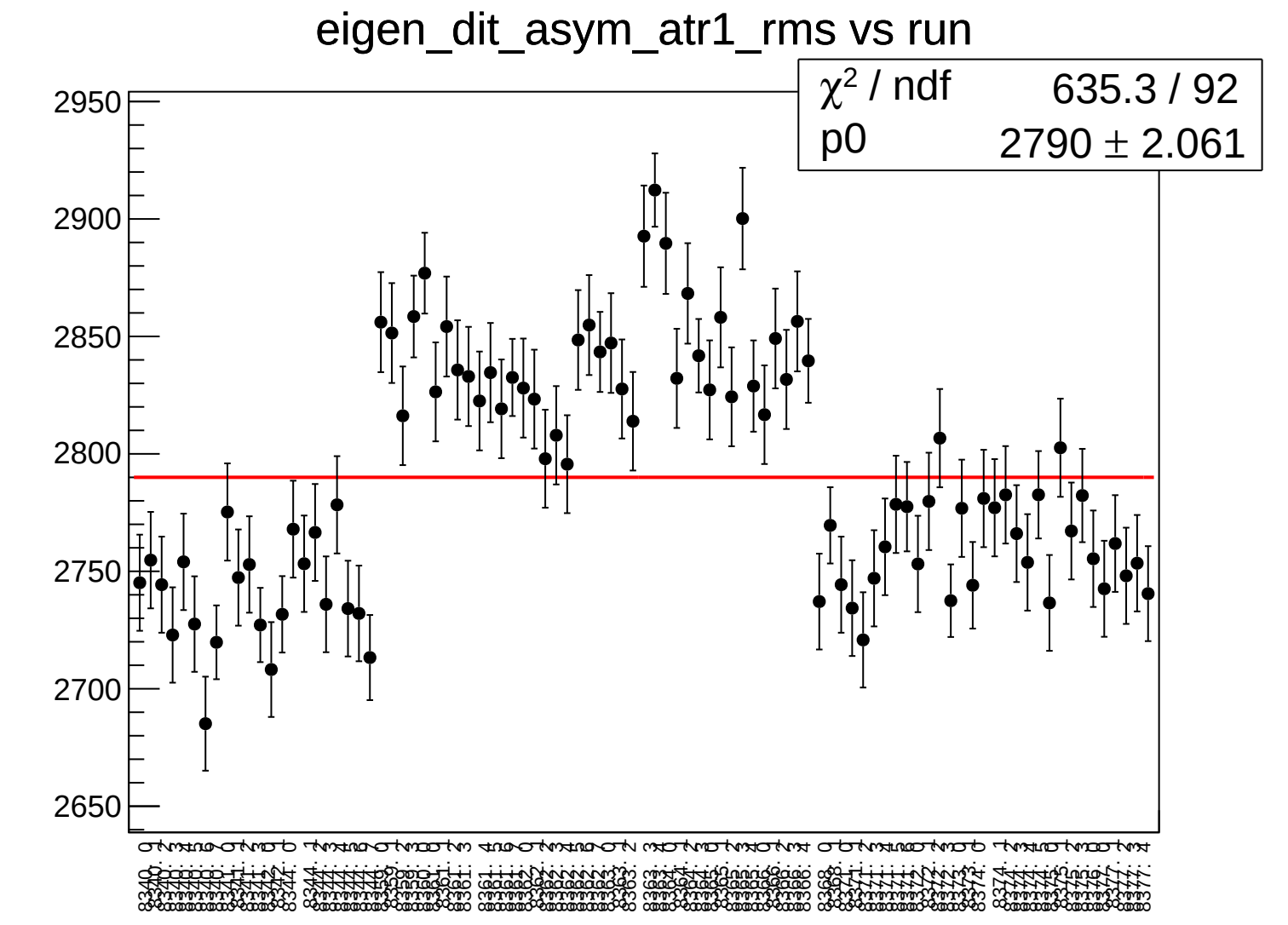

asym_atr1_dit_correction_mean vs run
χ² / ndf 95.4 / 92
p0 −6061 ± 1586
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 158.7
Std Dev 0
3
2
1
0
−1
−2

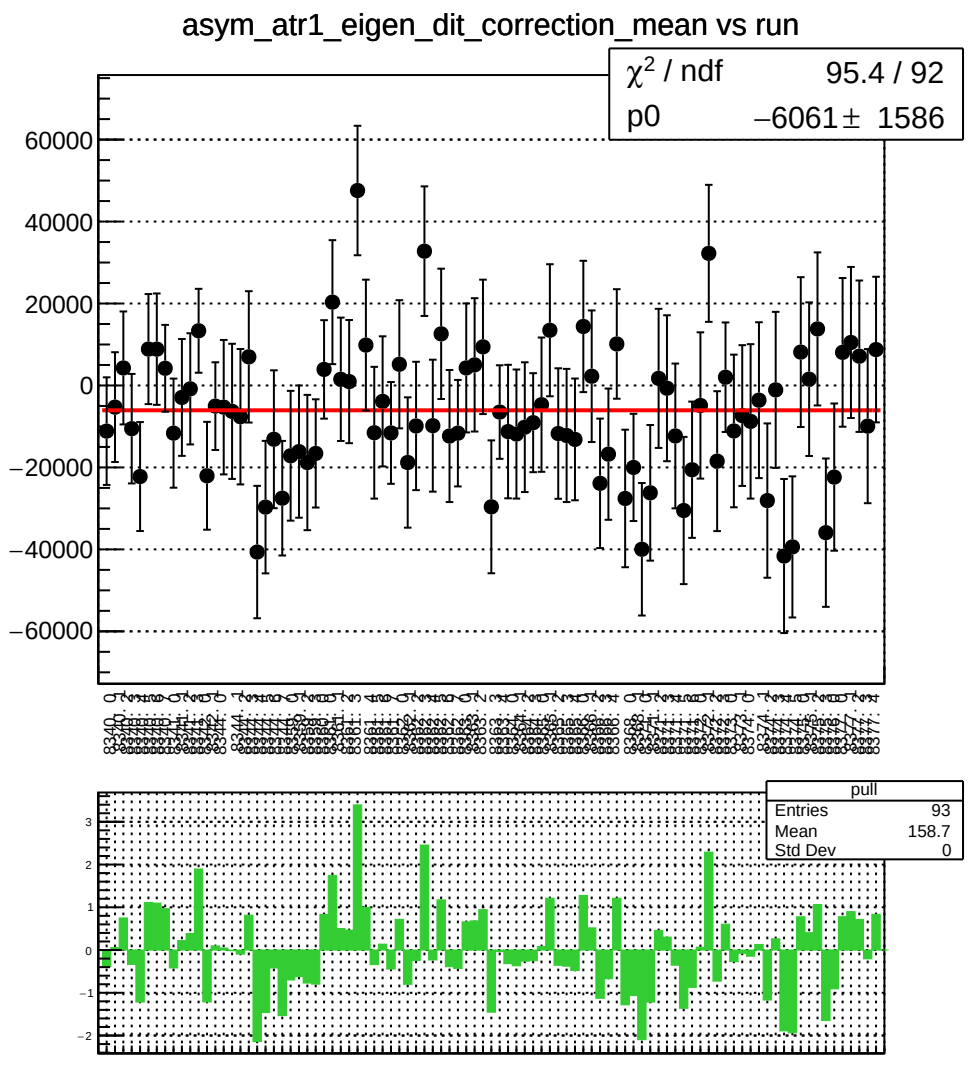

pull1D
Entries 93
Mean −0.02033
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

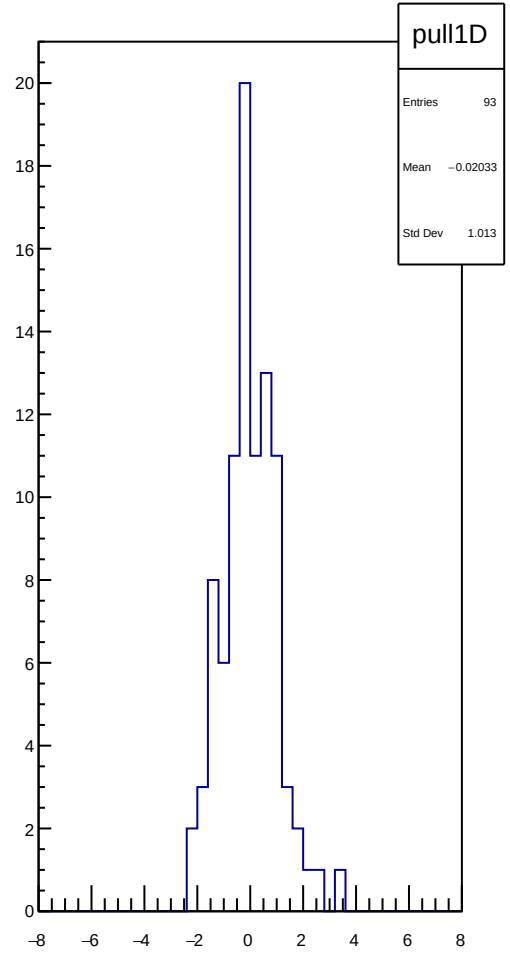

asym_atr1_dit_correction_rms vs run
χ² / ndf 1.941e+04 / 92
p0 1510 ± 1.121
1800
1700
1600
1500
1400
1300
1200

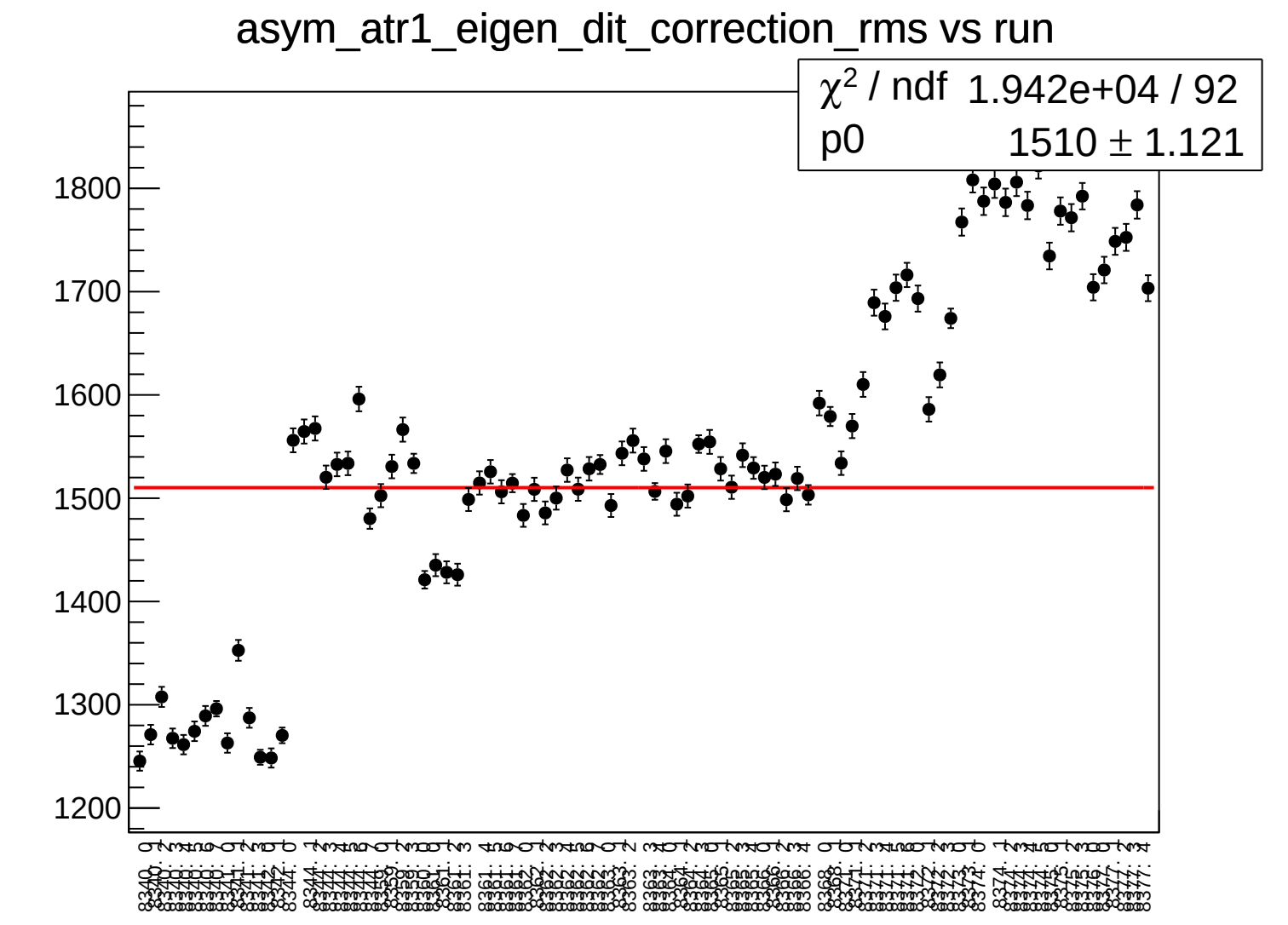

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 84.92 / 92
p0 −1052 ± 2914
100
50
0
−50
−100
pull
Entries 93
Mean 720.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

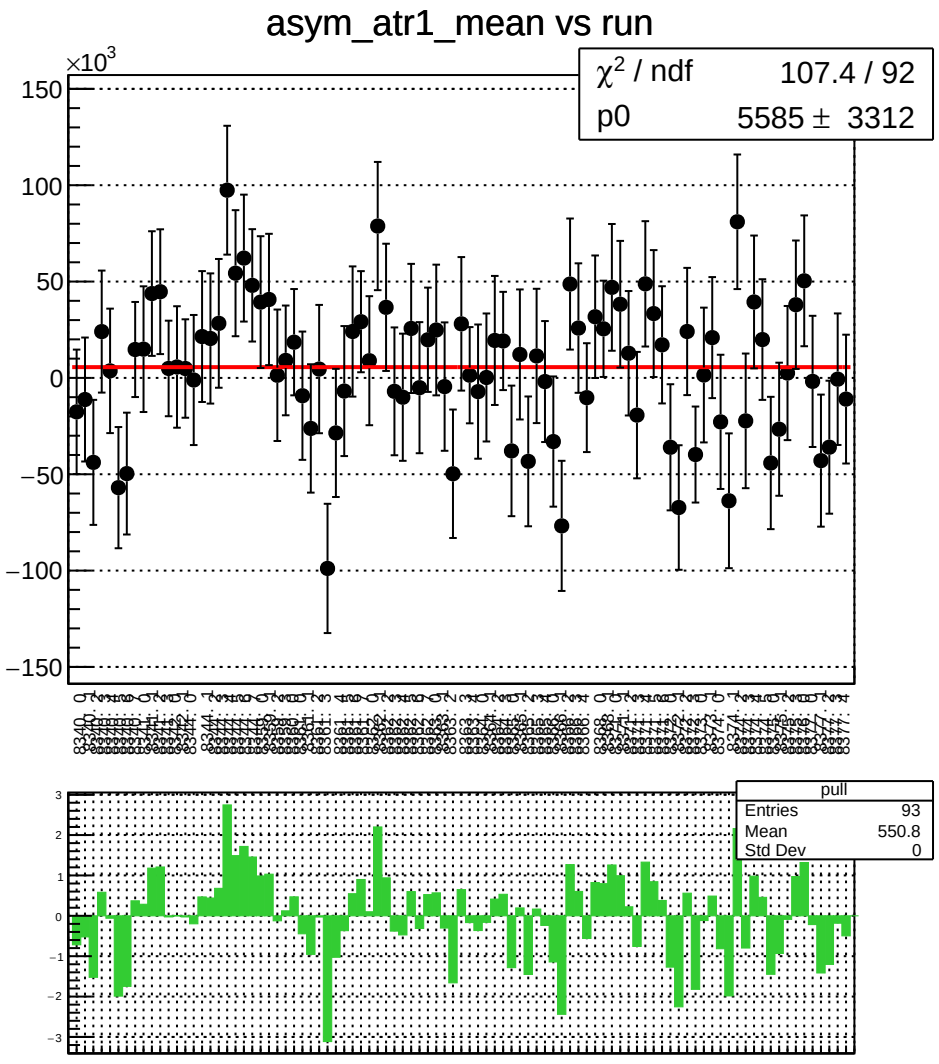

pull1D
Entries 93
Mean −0.007387
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

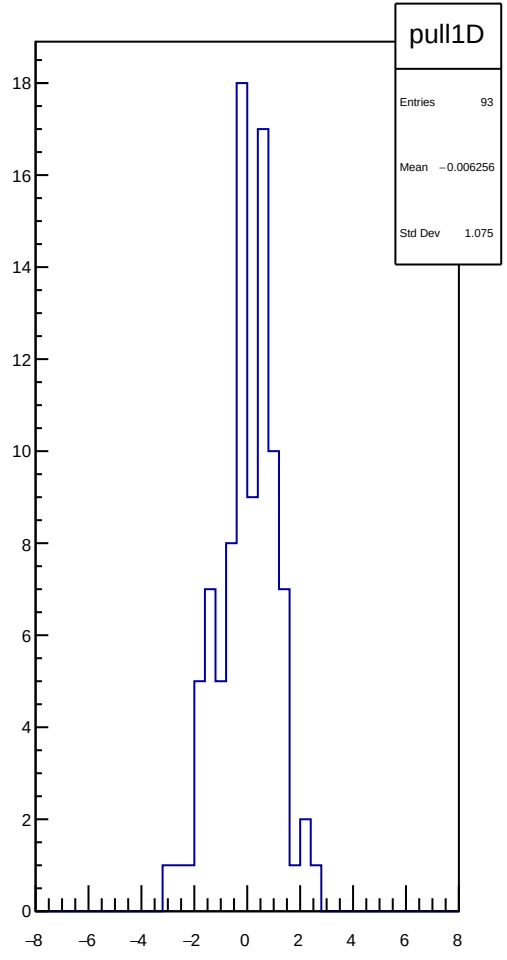

eigen_dit_asym_atr1_rms vs run
χ² / ndf 635.3 / 92
p0 2790 ± 2.061
2950
2900
2850
2800
2750
2700
2650

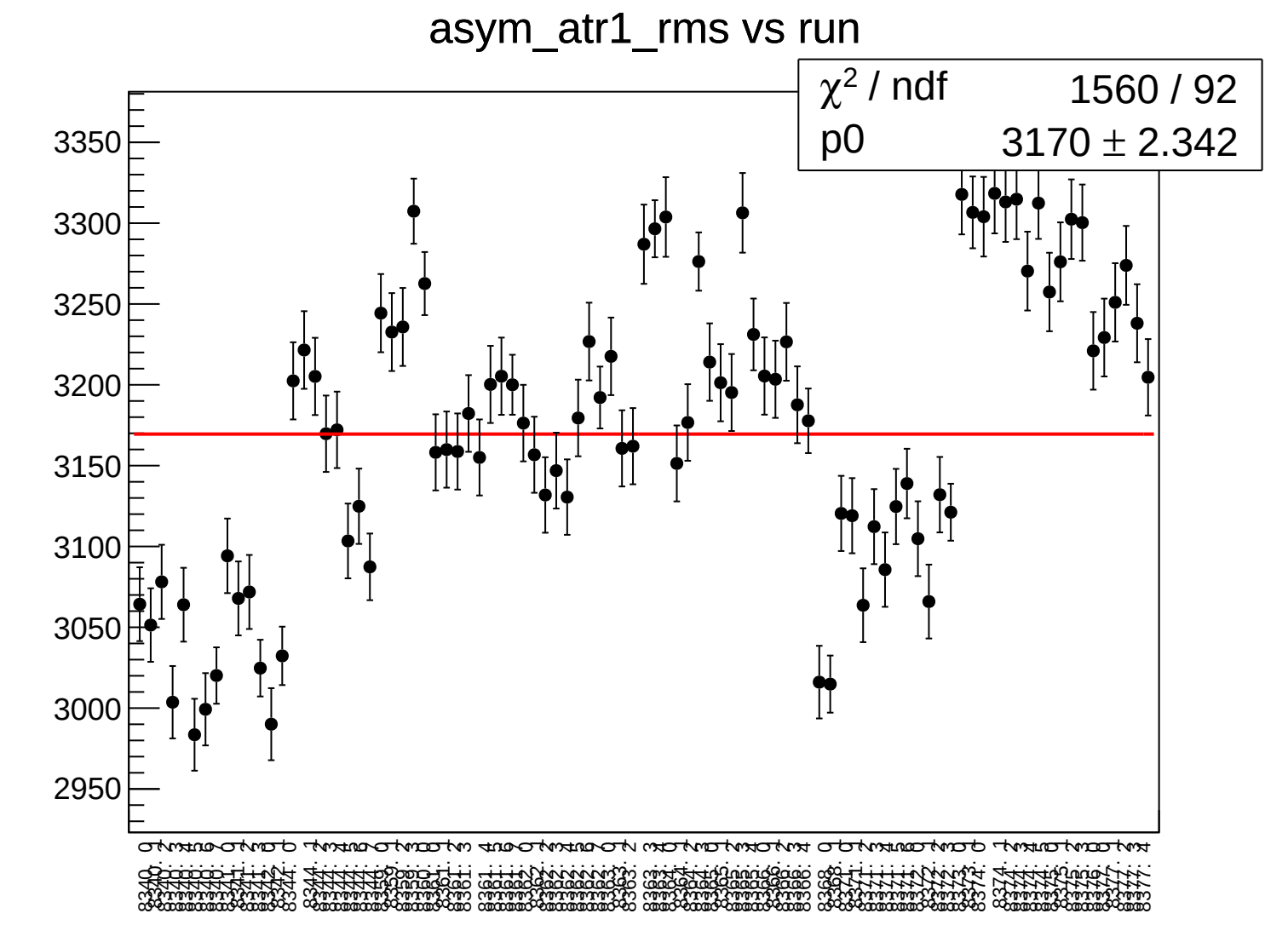

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 95.4 / 92
p0 −6061 ± 1586
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 158.7
Std Dev 0
3
2
1
0
−1
−2

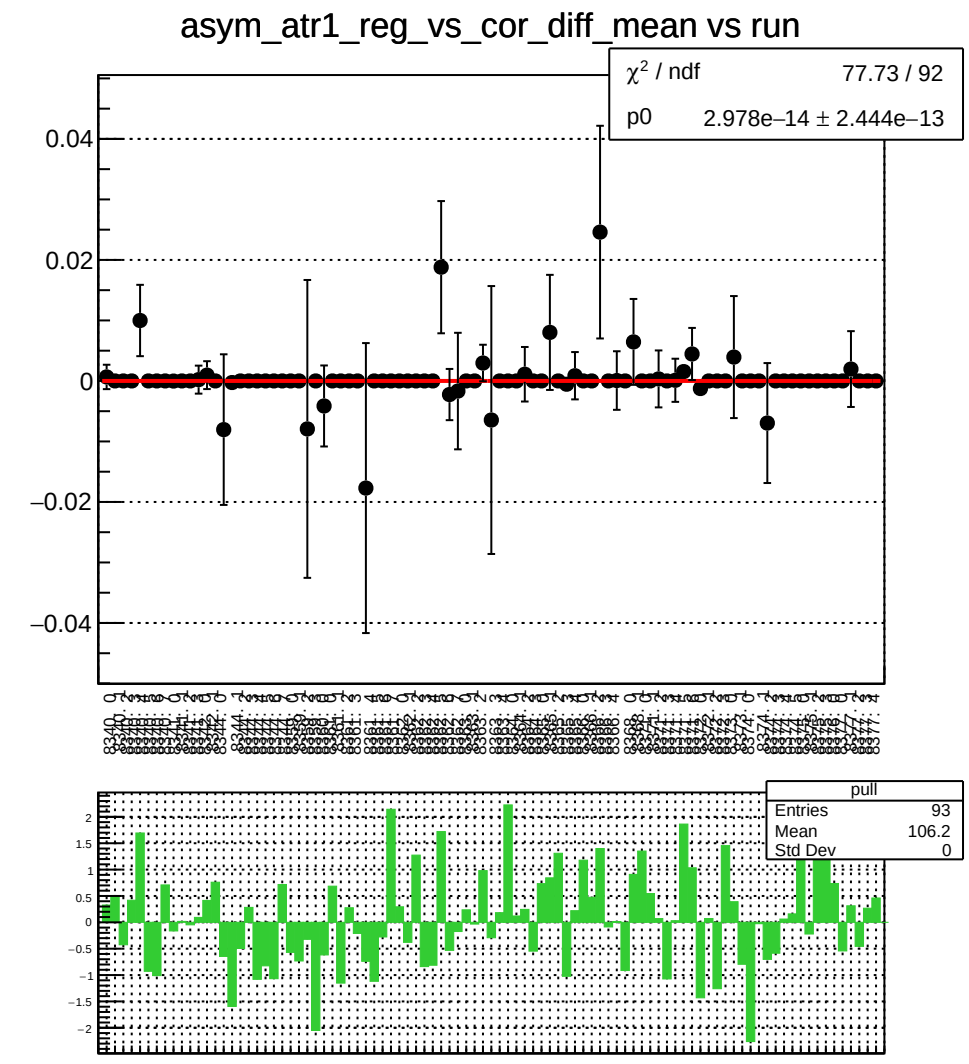

pull1D
Entries 93
Mean −0.02033
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

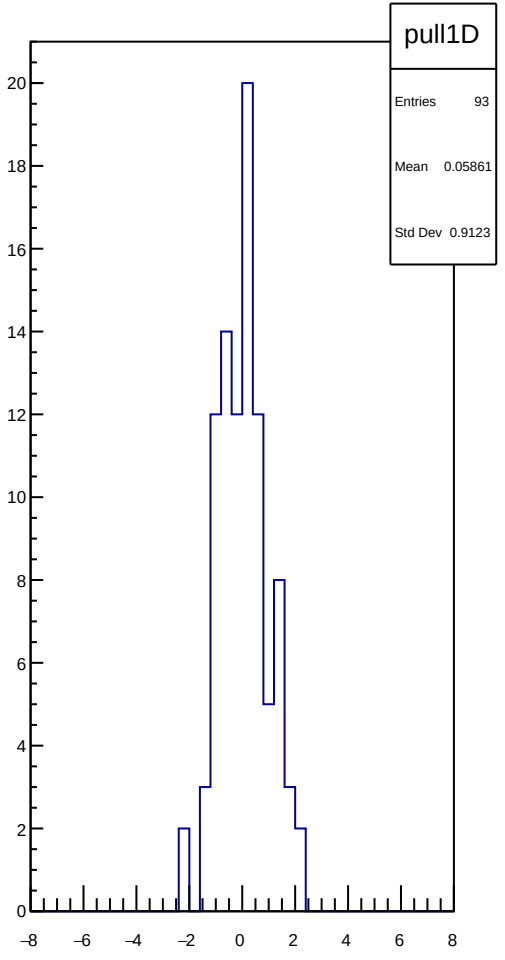

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 1.942e+04 / 92
p0 1510 ± 1.121
1800
1700
1600
1500
1400
1300
1200


asym_atr1_mean vs run
×10^3
χ^2 / ndf 107.4 / 92
p0 5585 ± 3312
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 550.8
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.006256
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr1_rms vs run
χ^2 / ndf 1560 / 92
p0 3170 ± 2.342
3350
3300
3250
3200
3150
3100
3050
3000
2950


asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 77.73 / 92
p0 2.978e−14 ± 2.444e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 106.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.05861
Std Dev 0.9123
20
18
16
14
12
10
8
6
4
2
0
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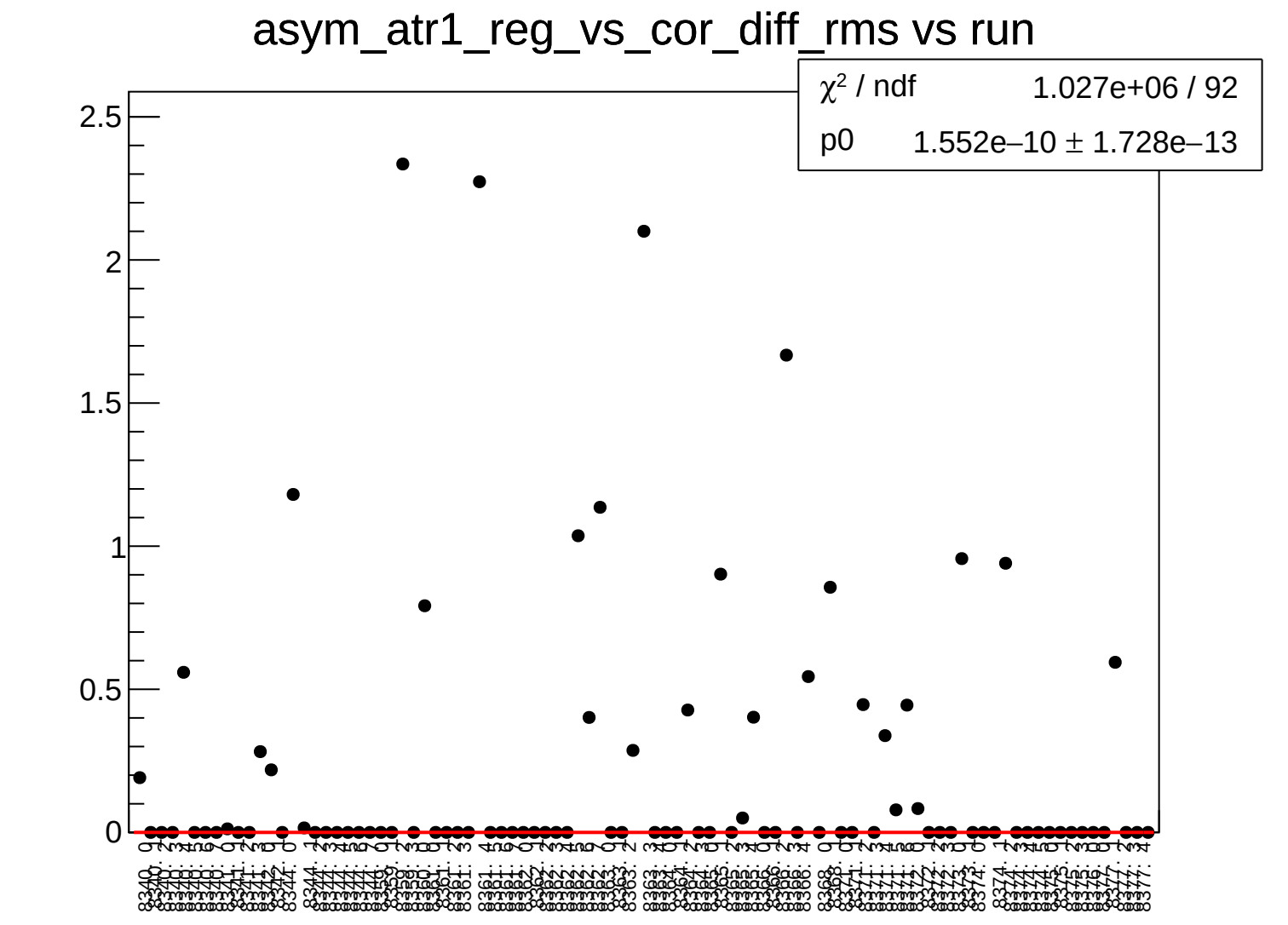
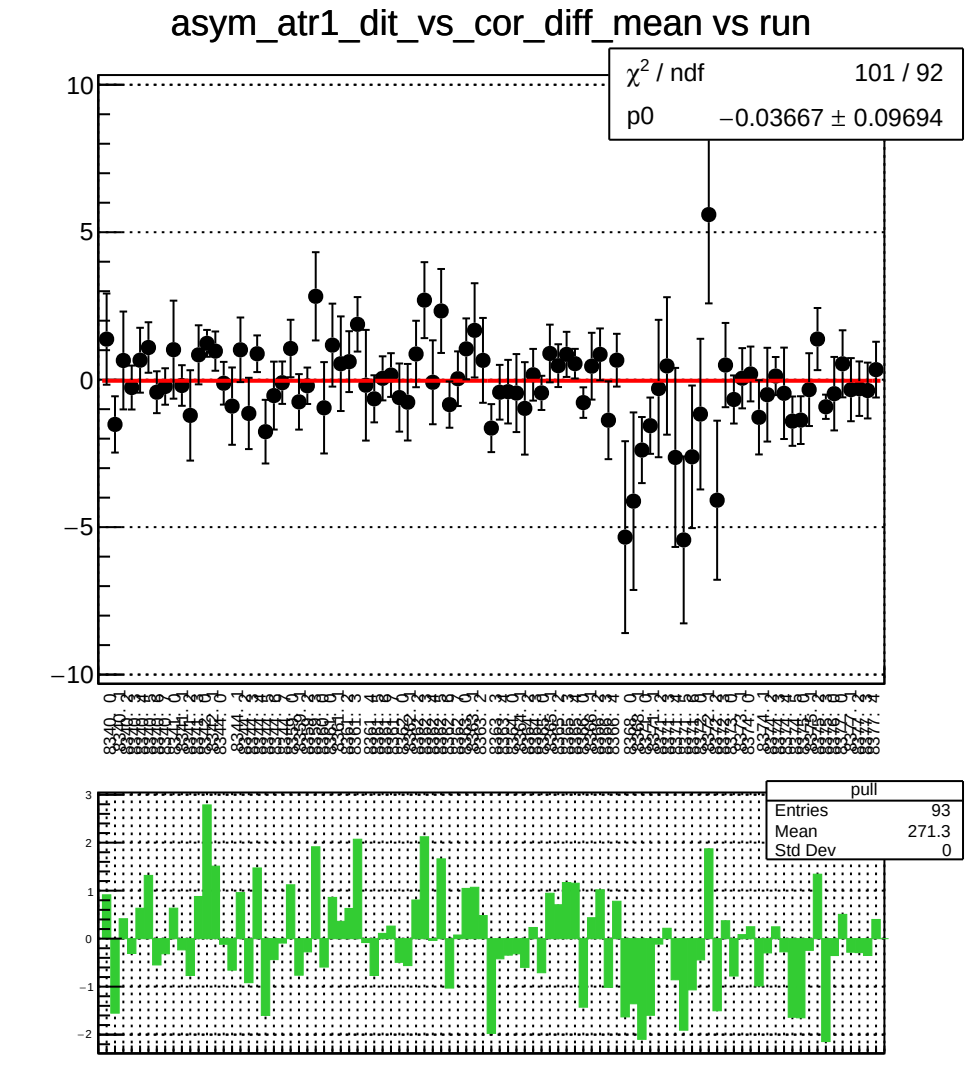
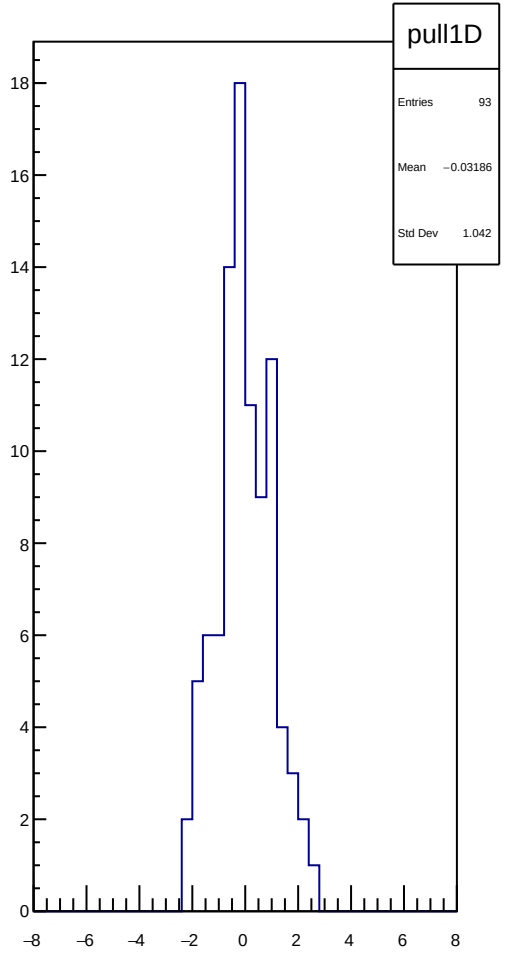
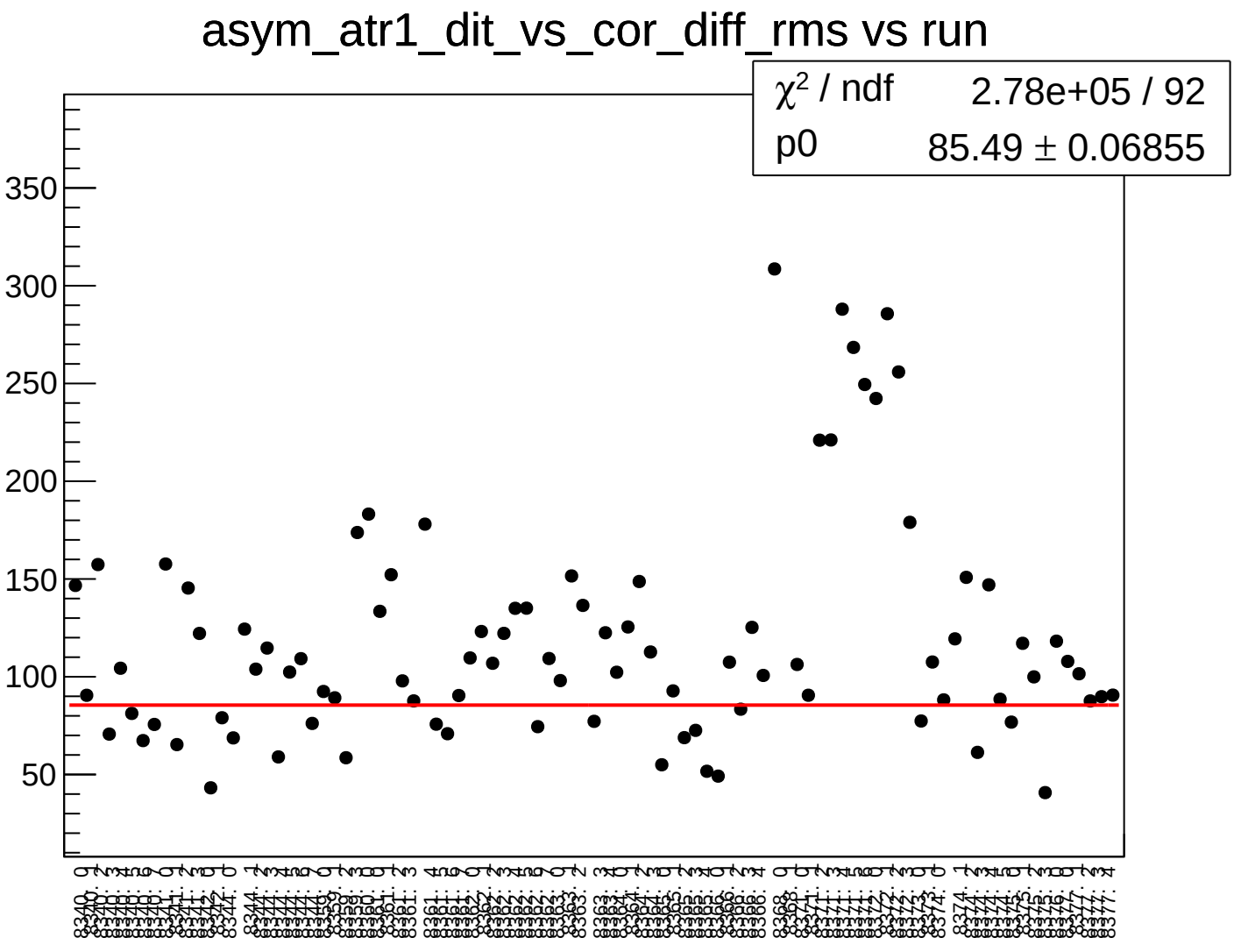
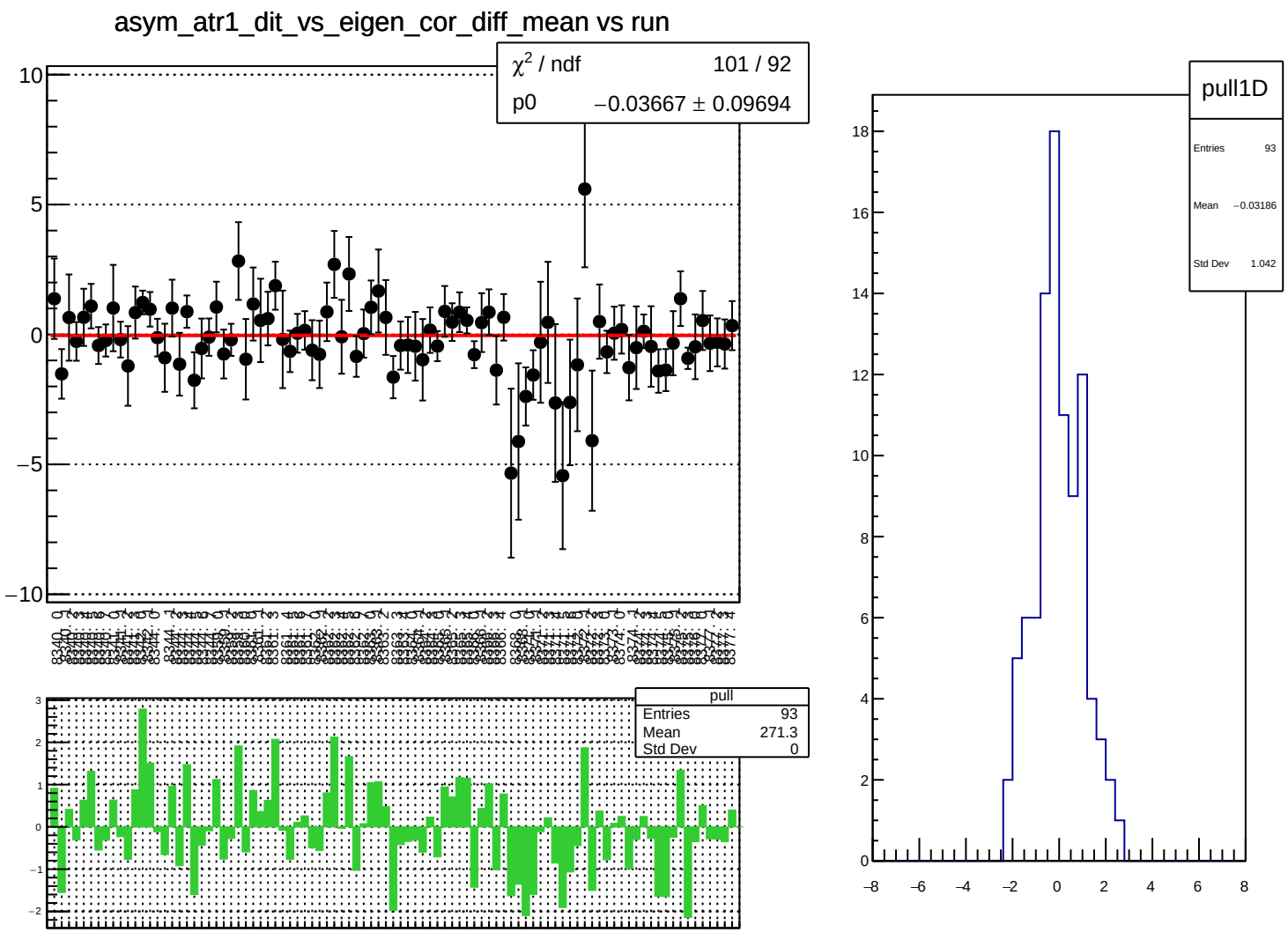
−4
−2
0
2
4
6
8

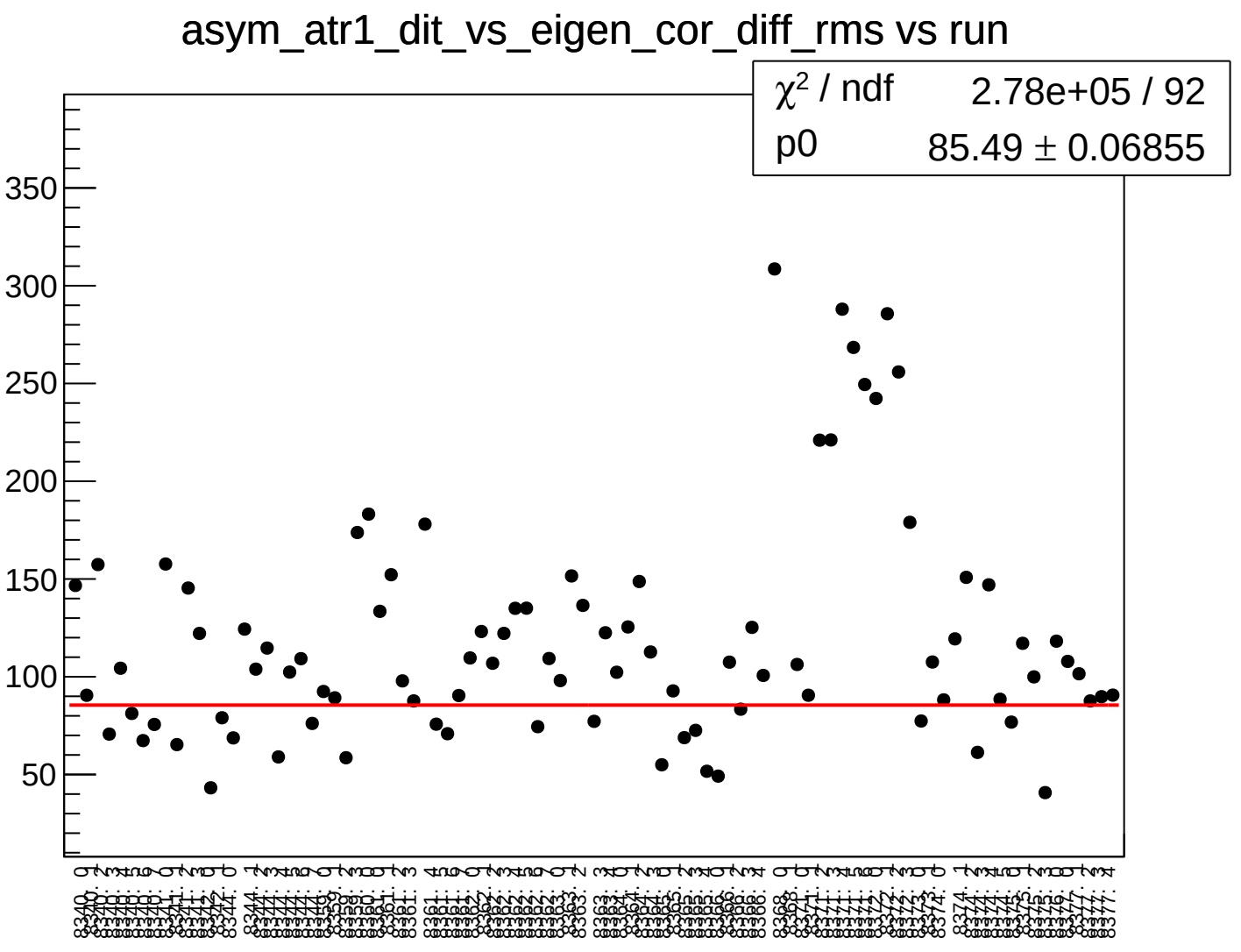

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.027e+06 / 92
p0 1.552e−10 ± 1.728e−13
2.5
2
1.5
1
0.5
0

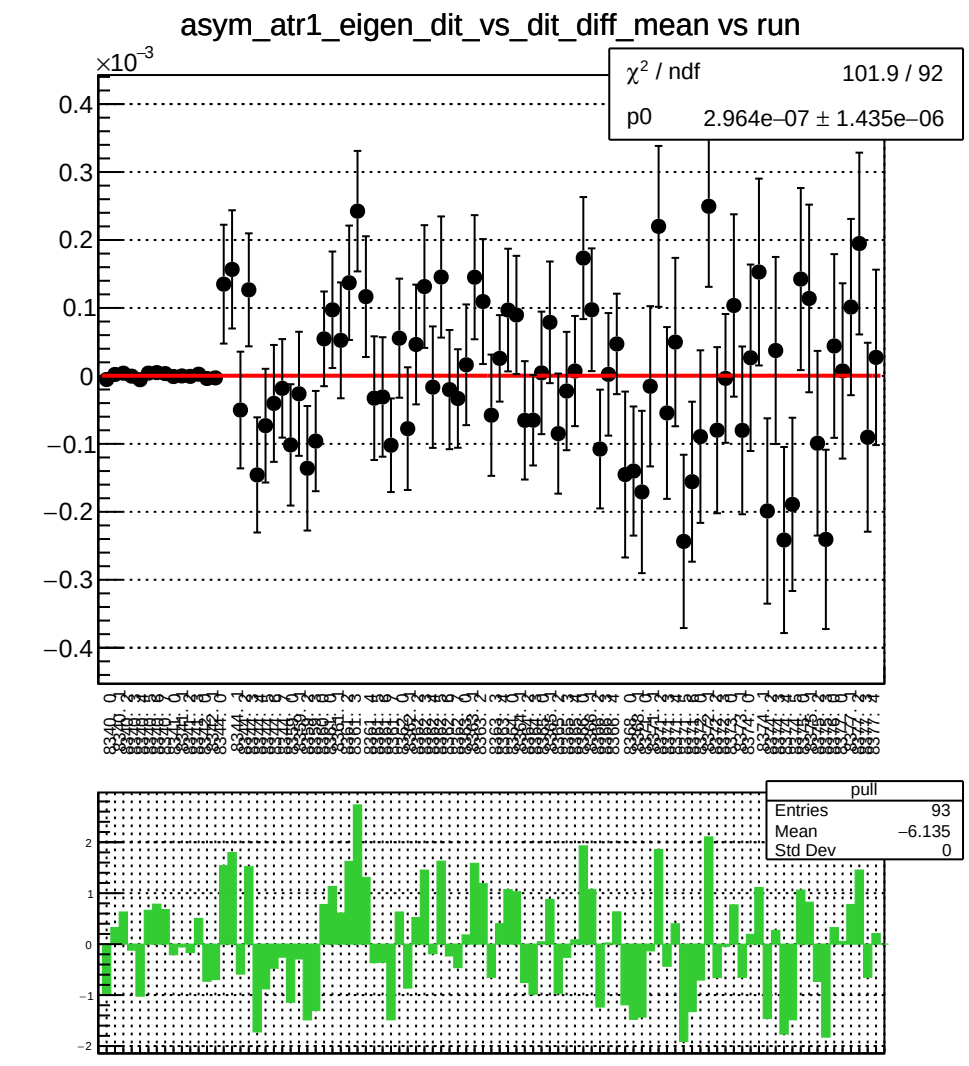

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 92
p0 −0.03667 ± 0.09694
pull
Entries 93
Mean 271.3
Std Dev 0

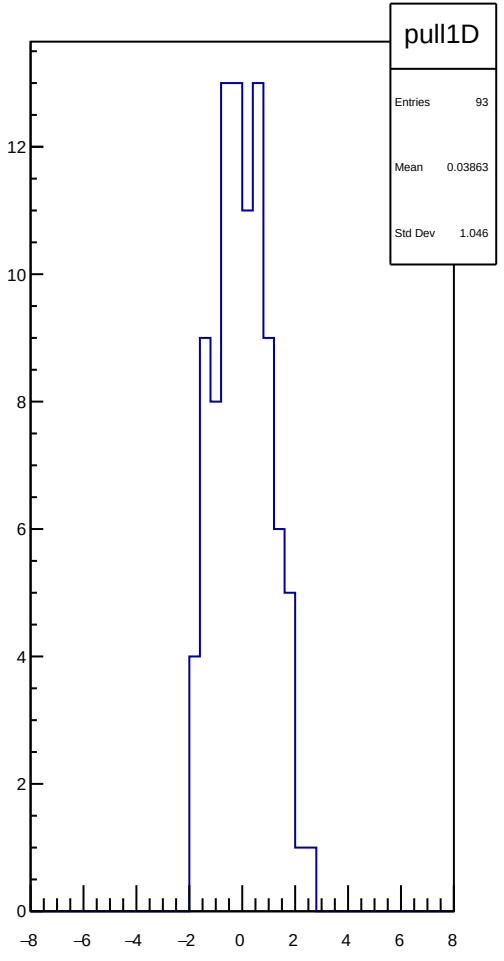

pull1D
Entries 93
Mean −0.03186
Std Dev 1.042

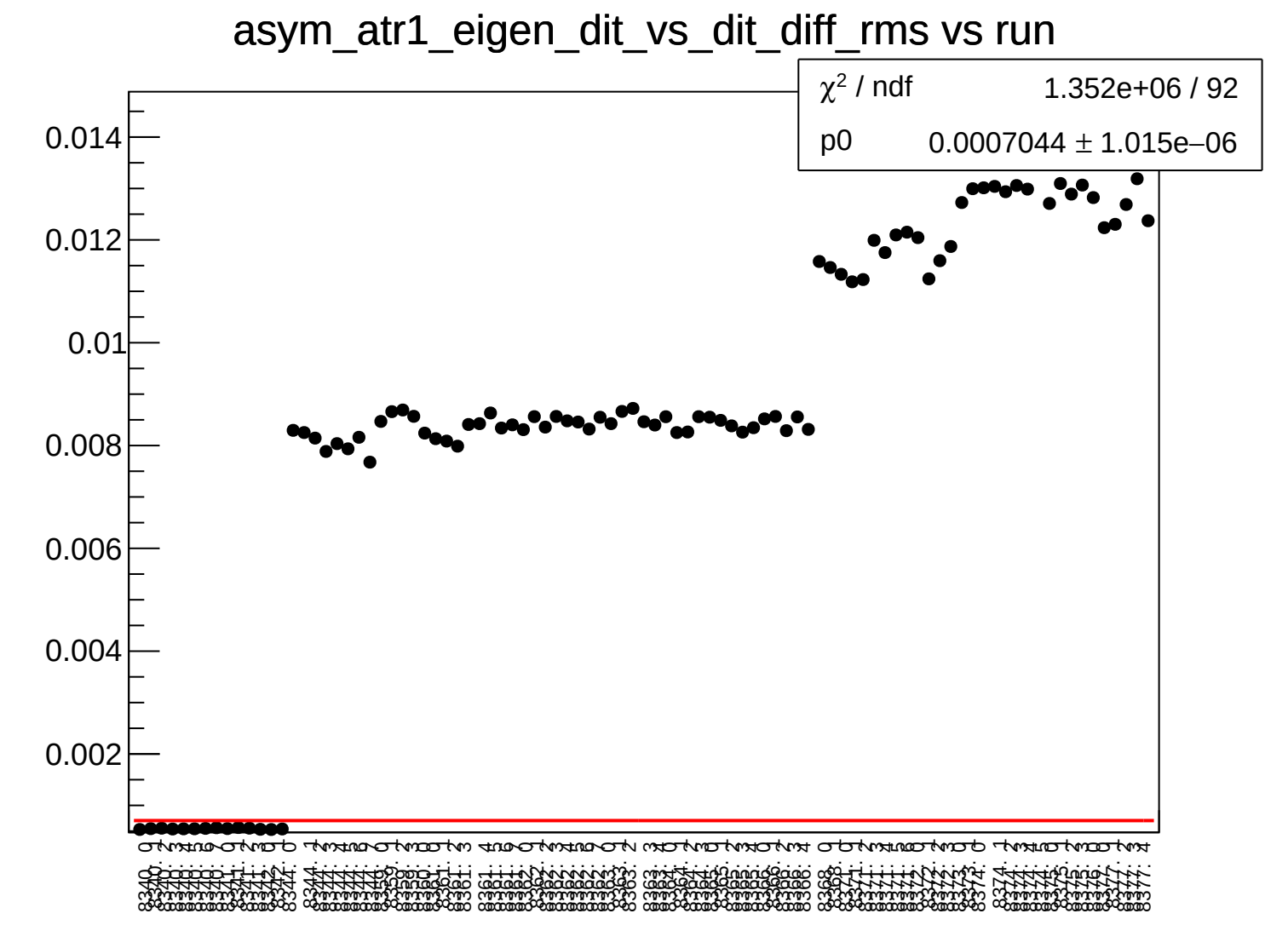

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.78e+05 / 92
p0 85.49 ± 0.06855
350
300
250
200
150
100
50

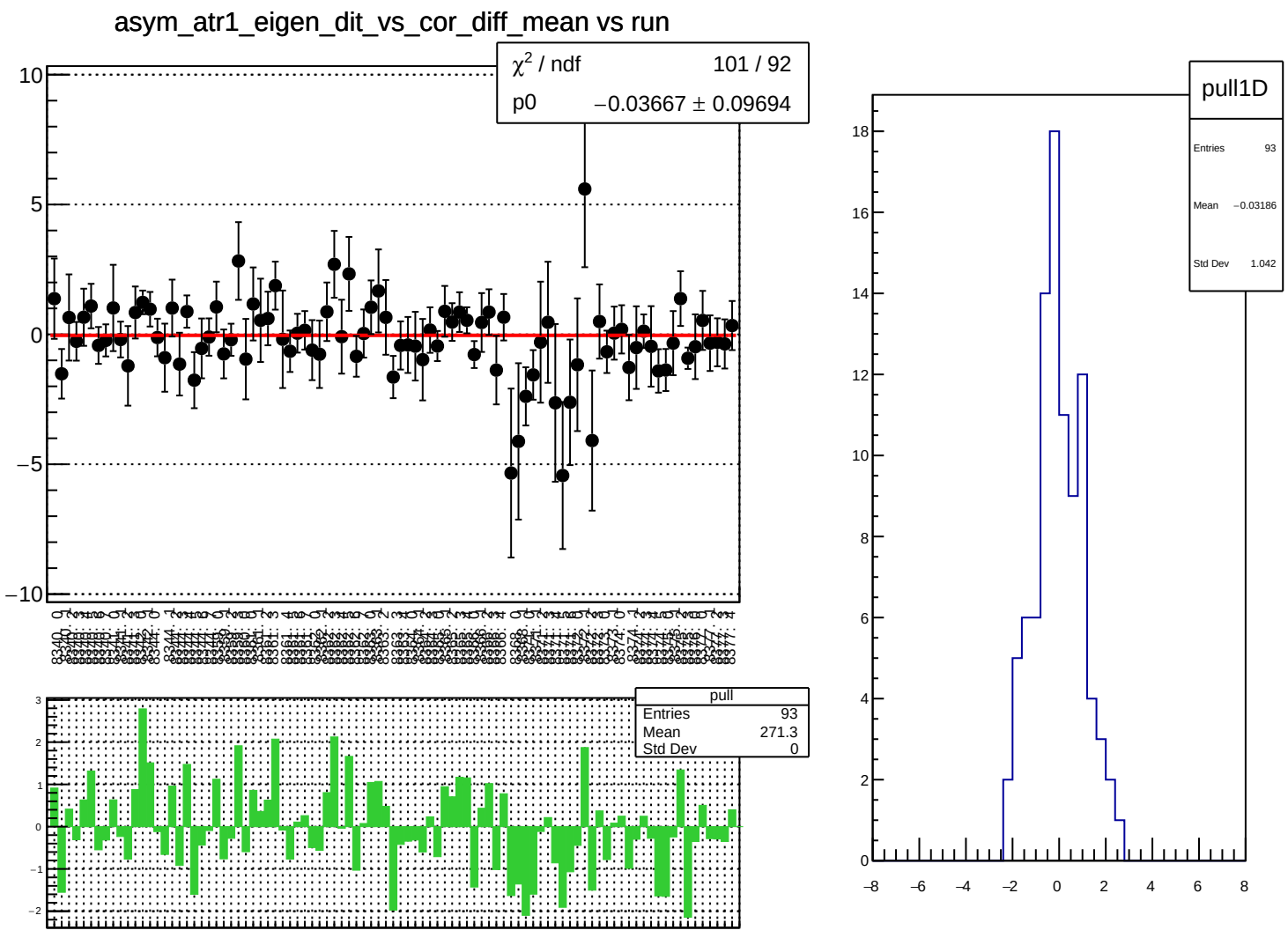

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 92
p0 −0.03667 ± 0.09694
pull
Entries 93
Mean 271.3
Std Dev 0
pull1D
Entries 93
Mean −0.03186
Std Dev 1.042

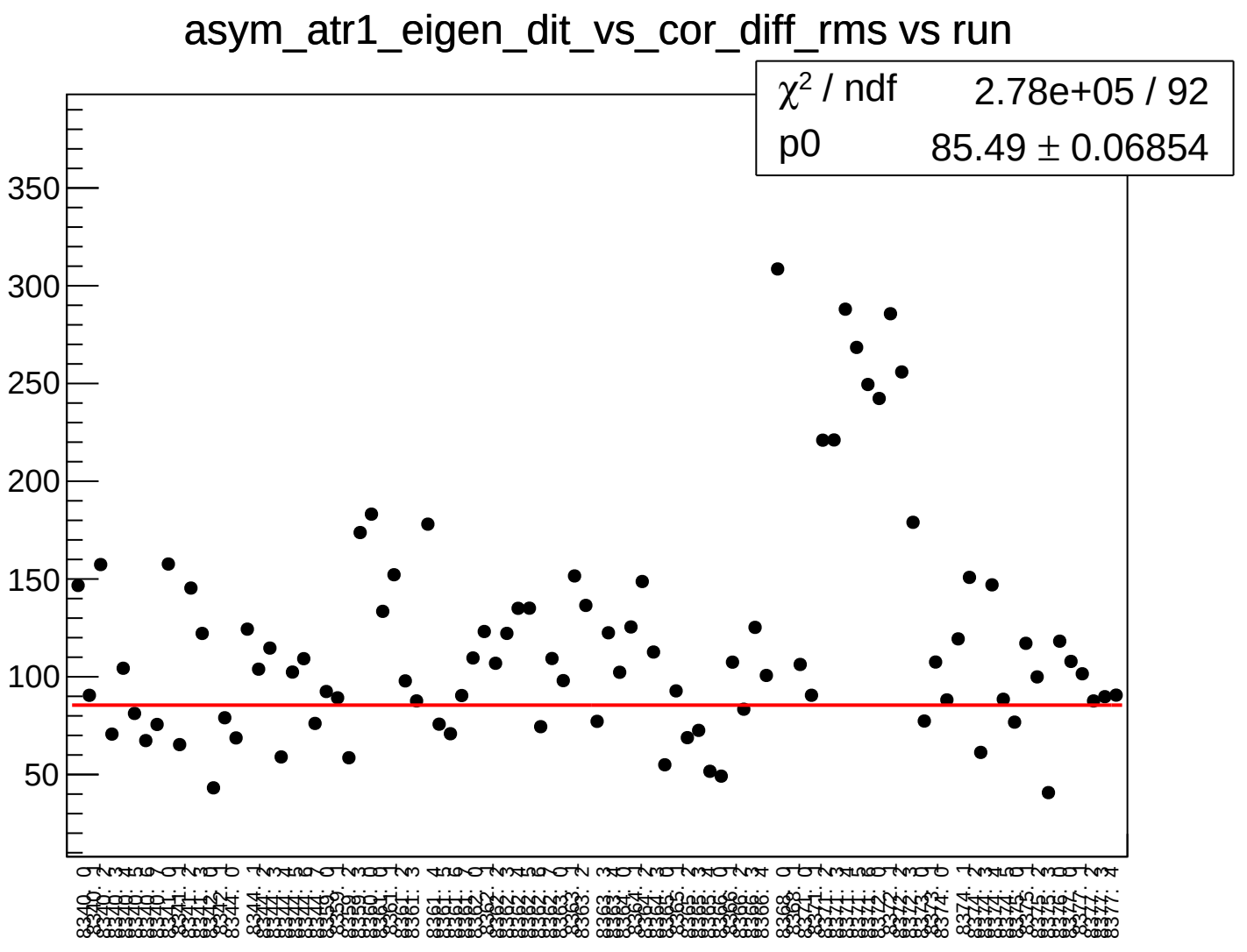

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.78e+05 / 92
p0 85.49 ± 0.06855
350
300
250
200
150
100
50

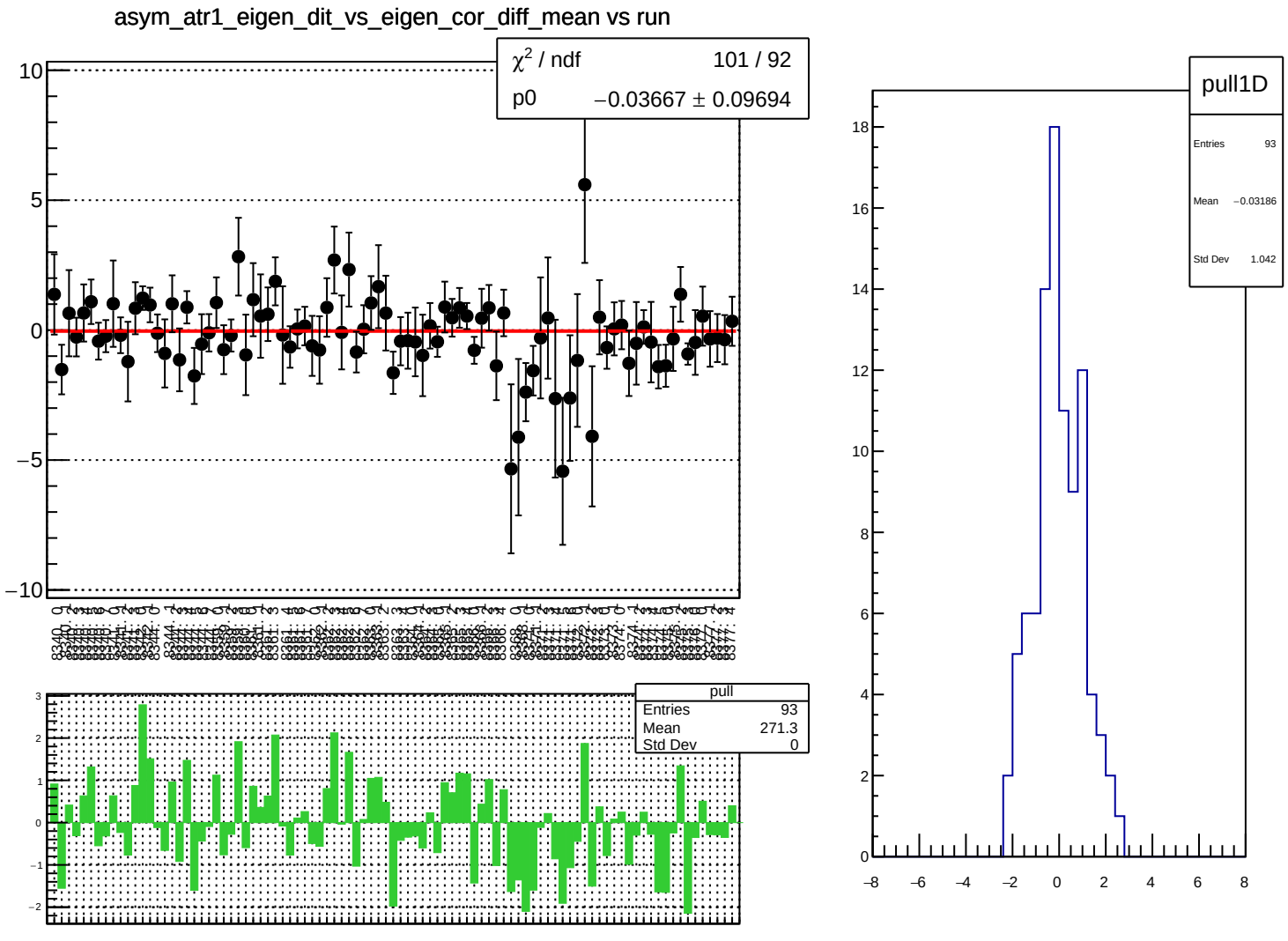

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.9 / 92
p0 2.964e−07 ± 1.435e−06
pull
Entries 93
Mean −6.135
Std Dev 0

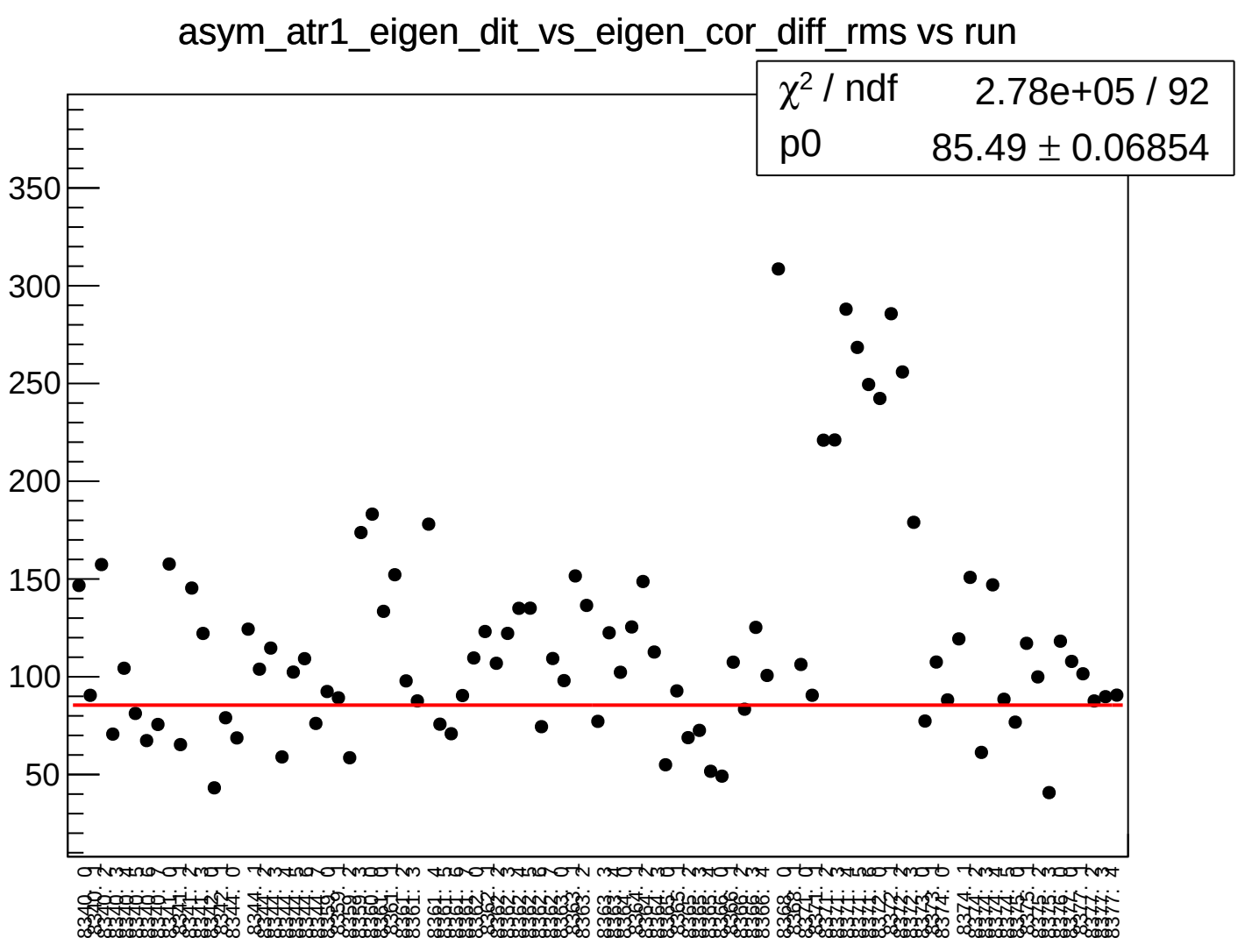

pull1D
Entries 93
Mean 0.03863
Std Dev 1.046

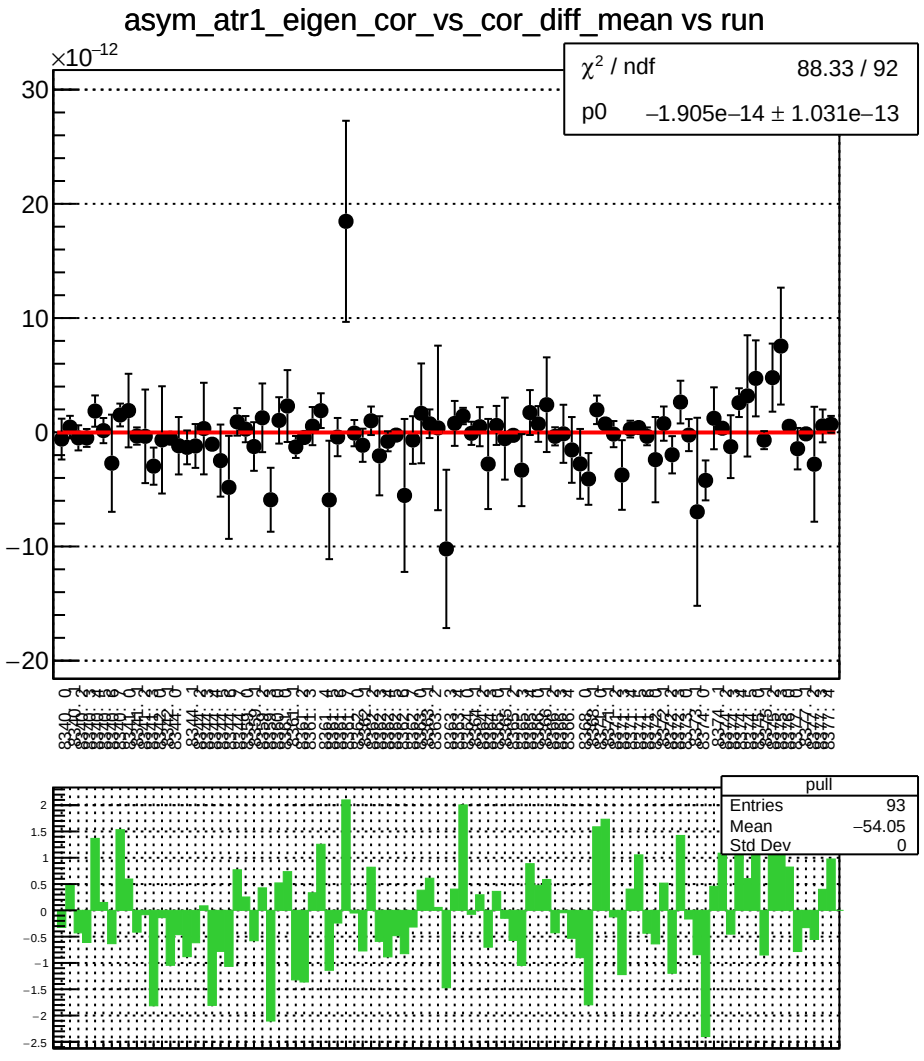

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.352e+06 / 92
p0 0.0007044 ± 1.015e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

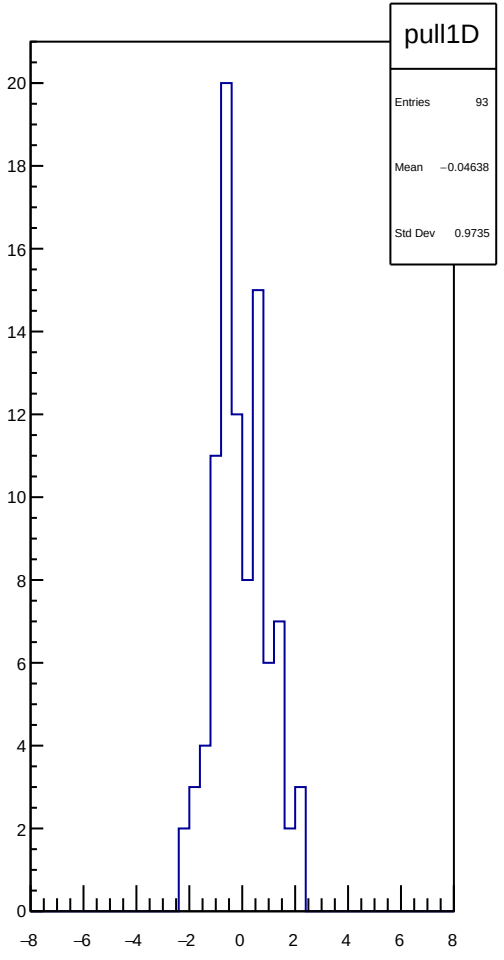

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 92
p0 −0.03667 ± 0.09694
pull
Entries 93
Mean 271.3
Std Dev 0
pull1D
Entries 93
Mean −0.03186
Std Dev 1.042

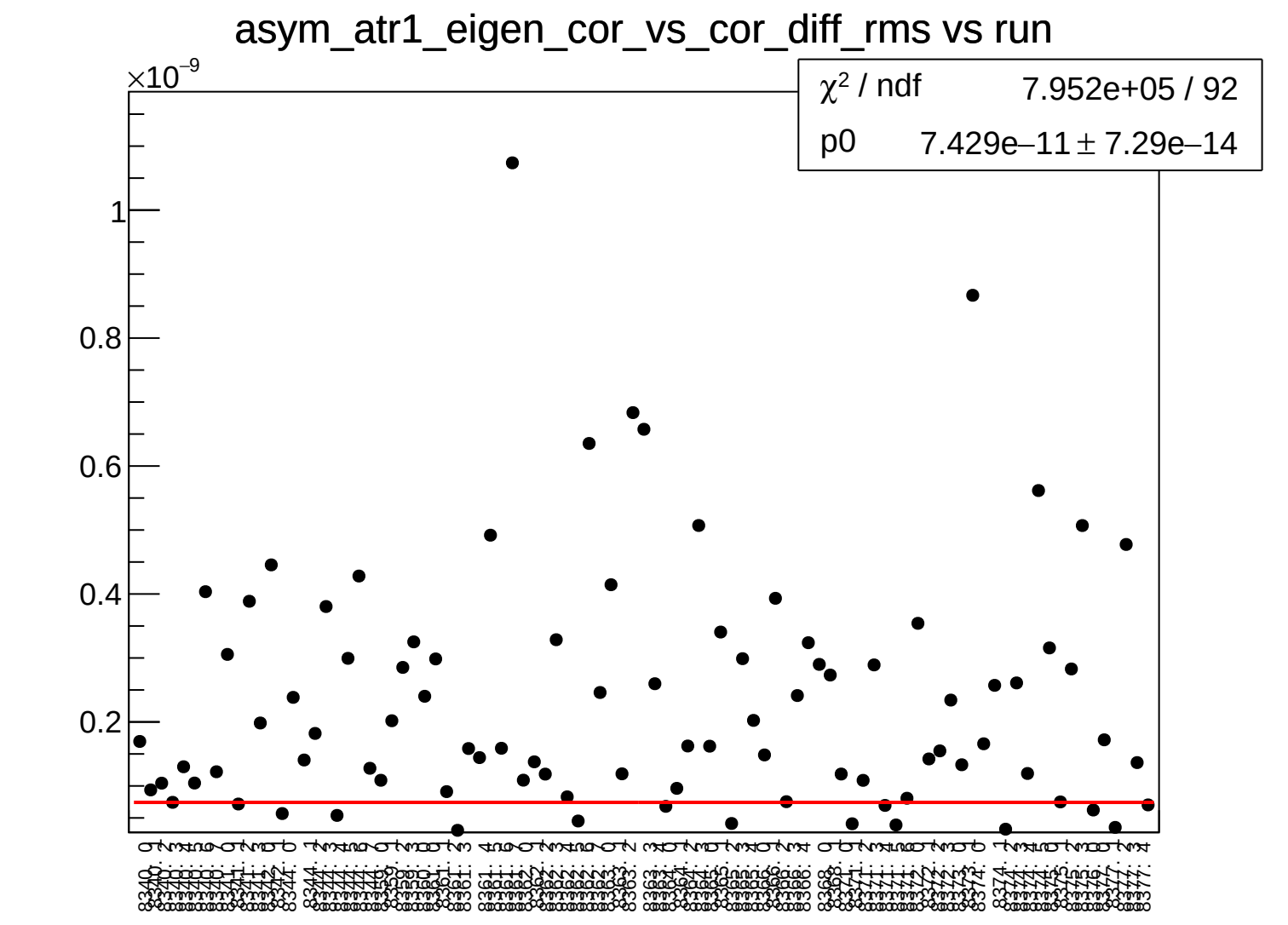

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.78e+05 / 92
p0 85.49 ± 0.06854
350
300
250
200
150
100
50

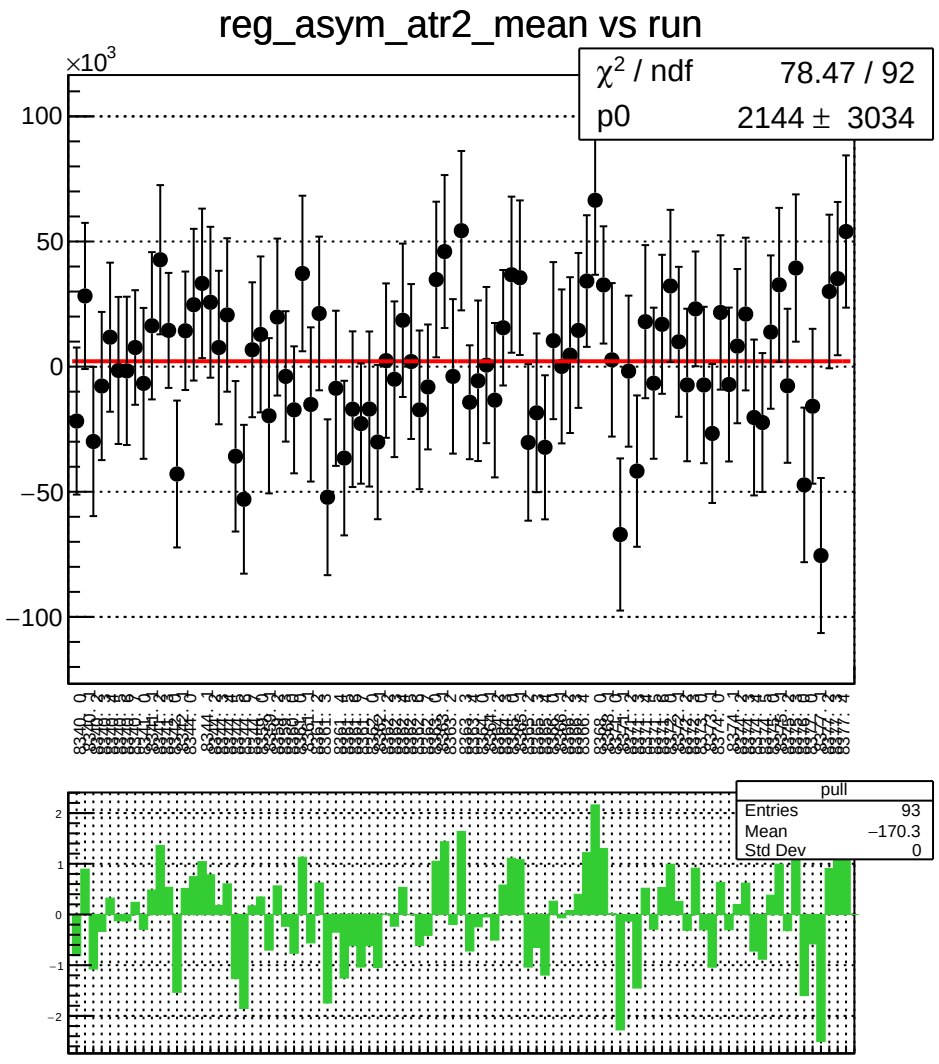

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 92
p0 −0.03667 ± 0.09694
pull
Entries 93
Mean 271.3
Std Dev 0
pull1D
Entries 93
Mean −0.03186
Std Dev 1.042

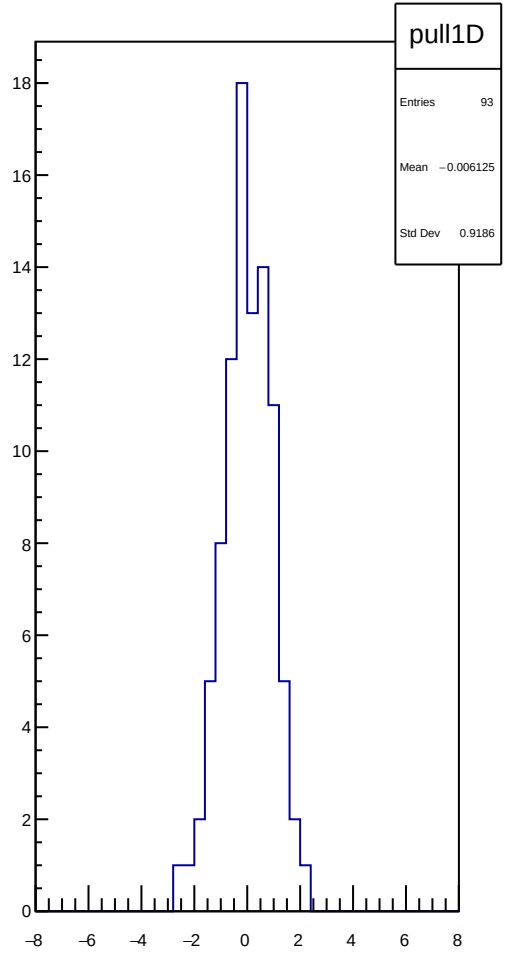

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.78e+05 / 92
p0 85.49 ± 0.06854
350
300
250
200
150
100
50

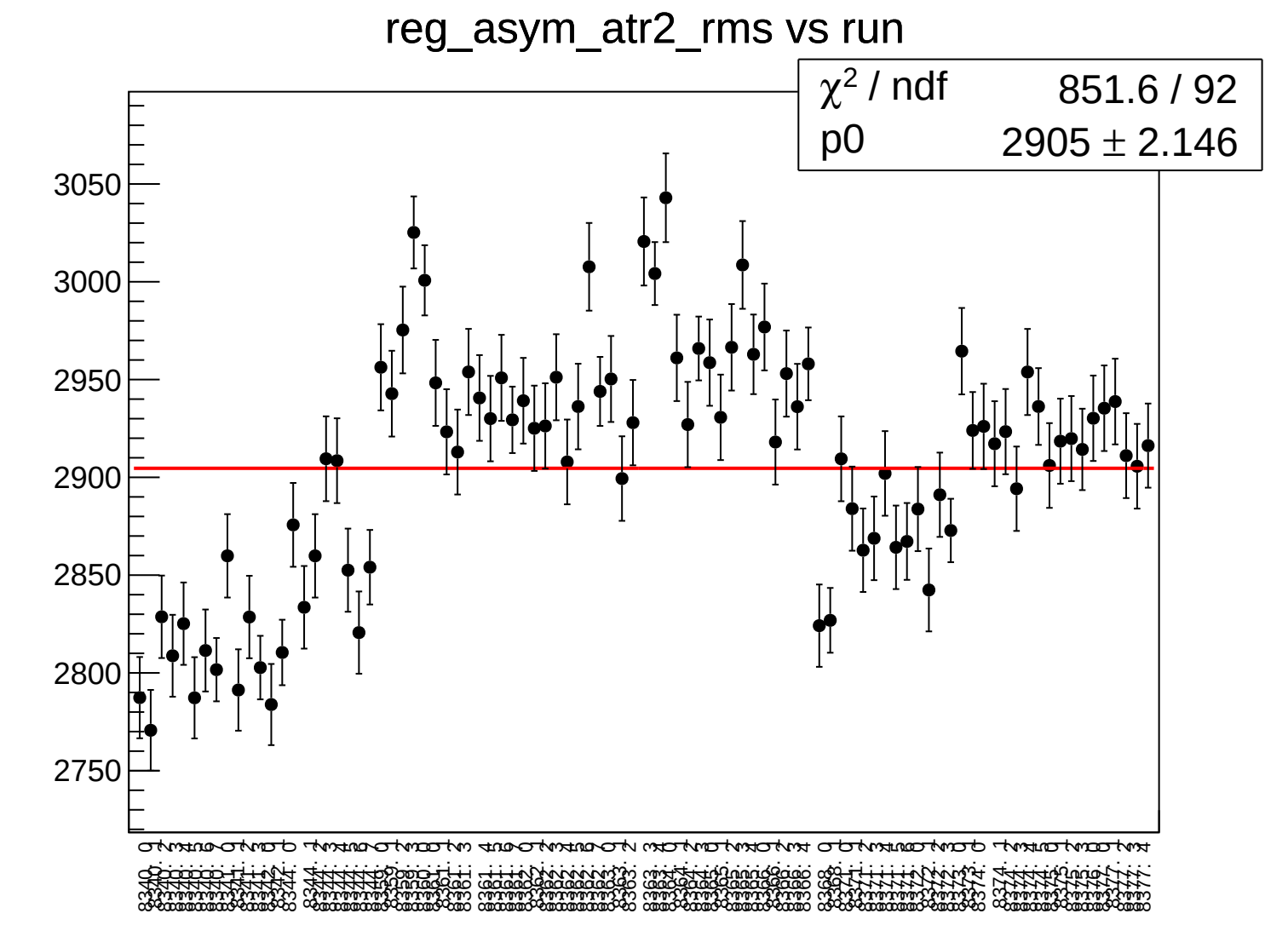

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.33 / 92
p0 −1.905e−14 ± 1.031e−13
pull
Entries 93
Mean −54.05
Std Dev 0

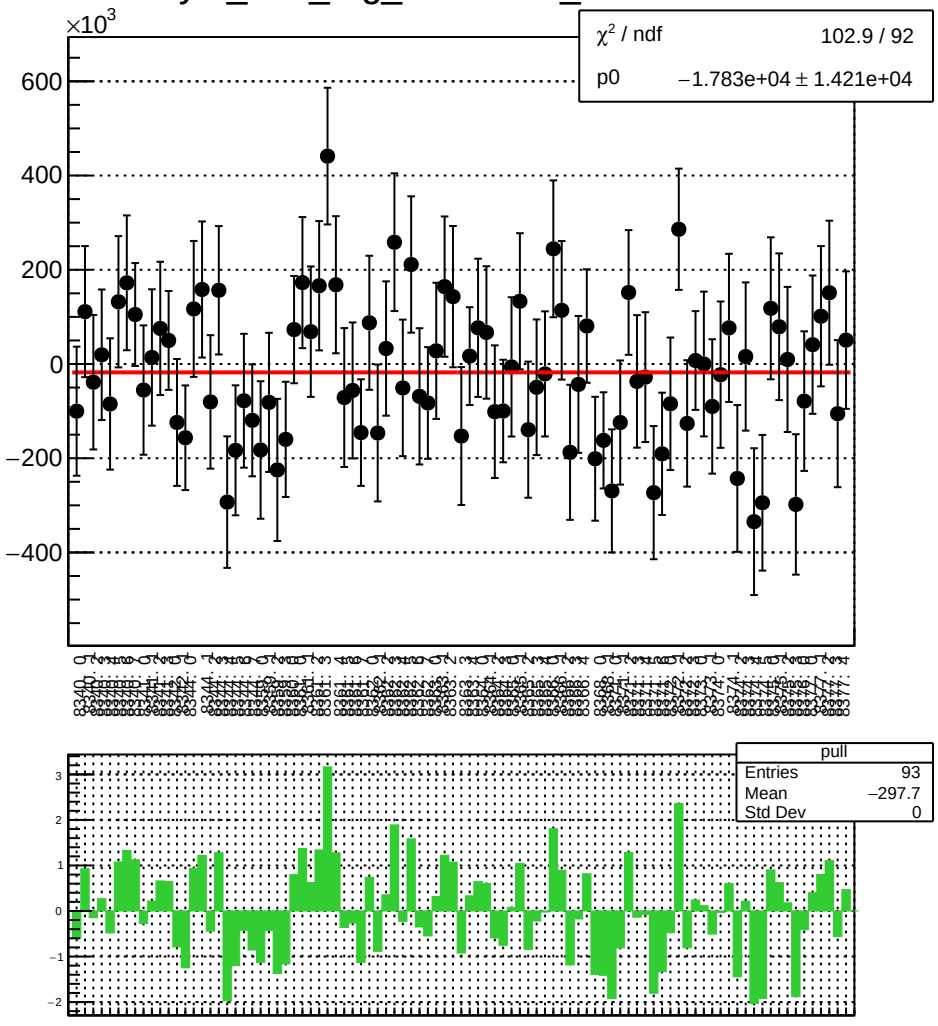

pull1D
Entries 93
Mean −0.04638
Std Dev 0.9735

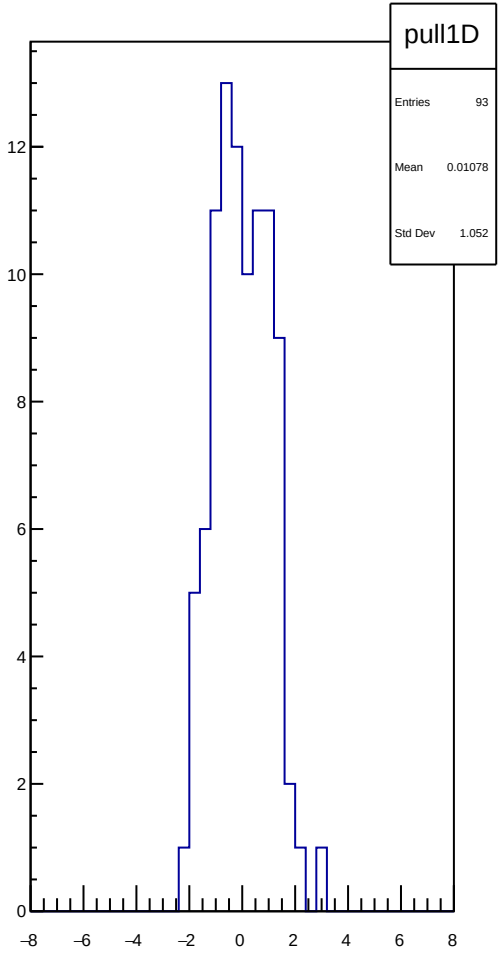

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.952e+05 / 92
p0 7.429e−11 ± 7.29e−14
1
0.8
0.6
0.4
0.2

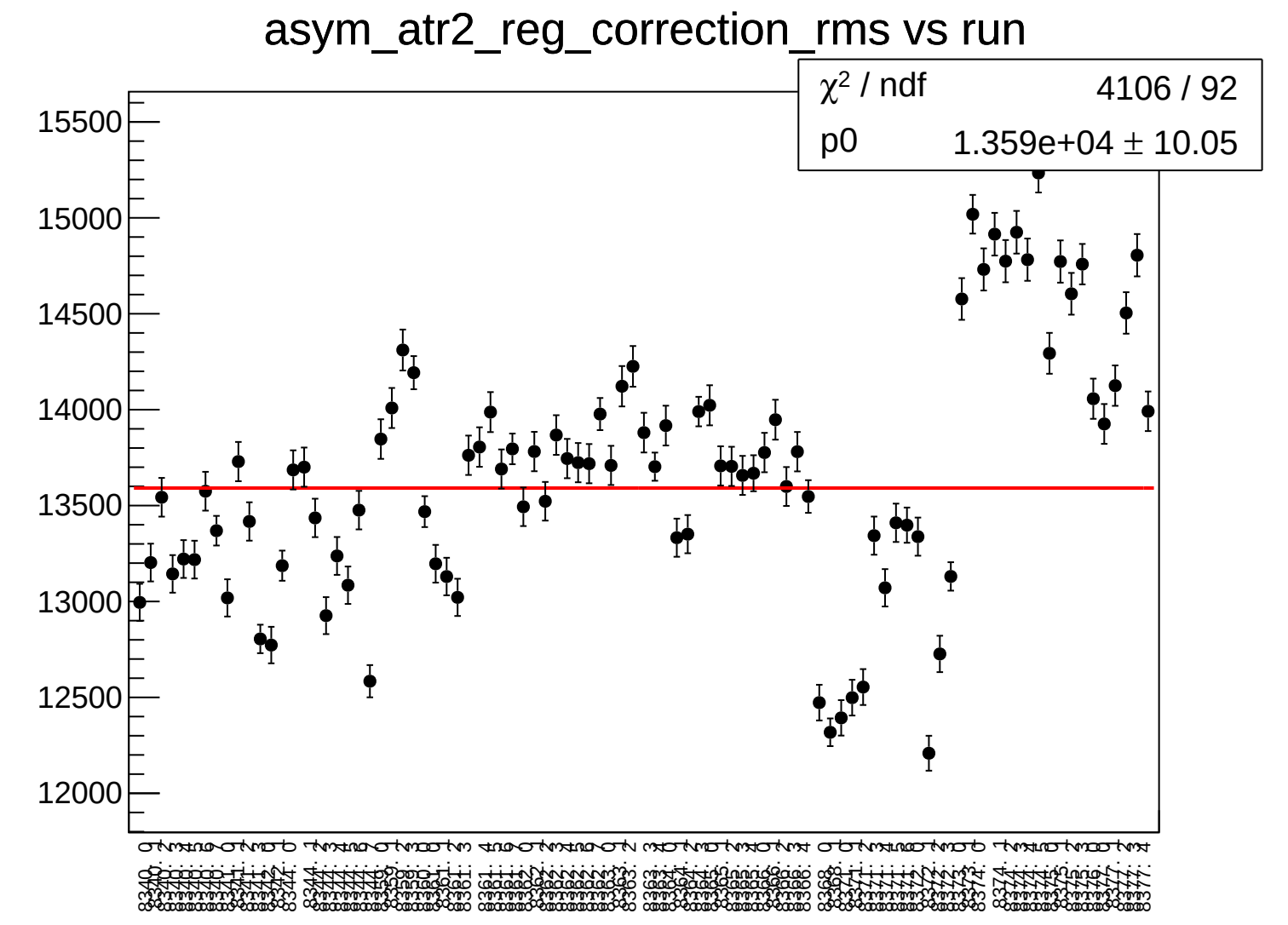

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 78.47 / 92
p0 2144 ± 3034
100
50
0
−50
−100
pull
Entries 93
Mean −170.3
Std Dev 0
2
1
0
−1
−2

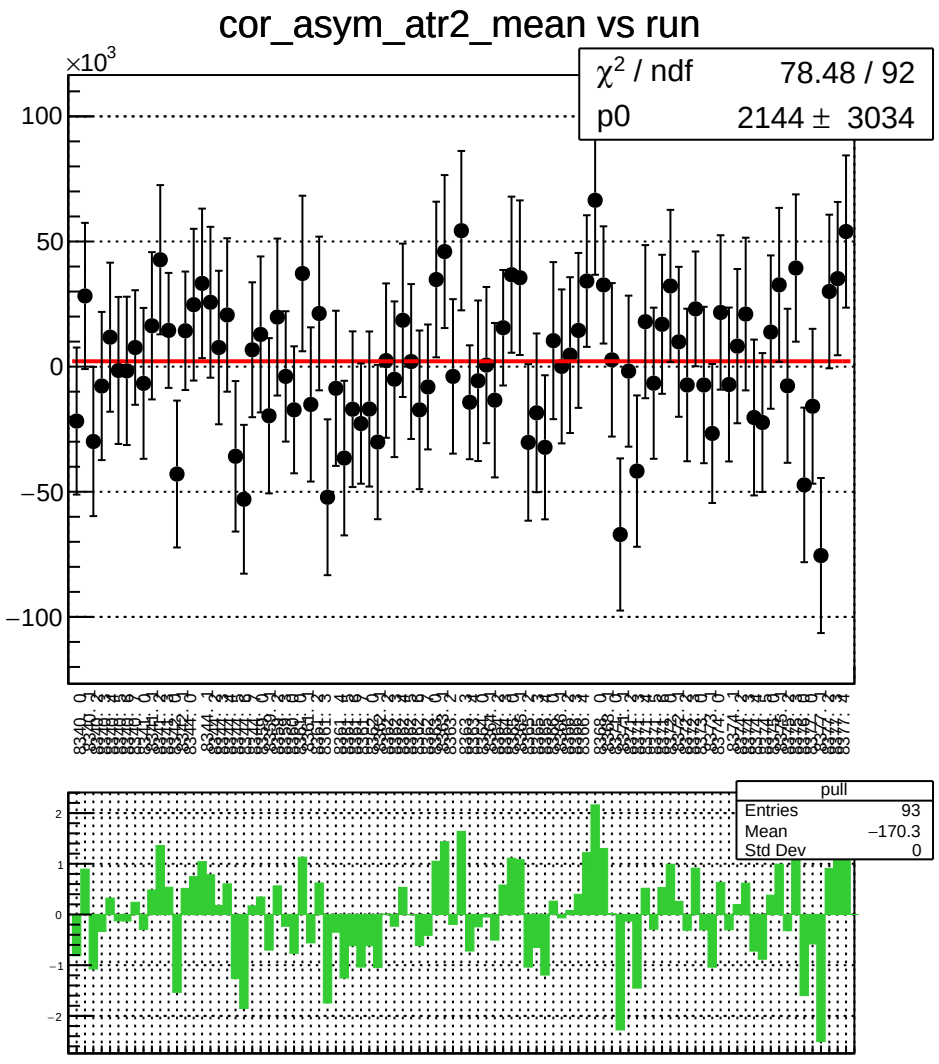

pull1D
Entries 93
Mean −0.006125
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

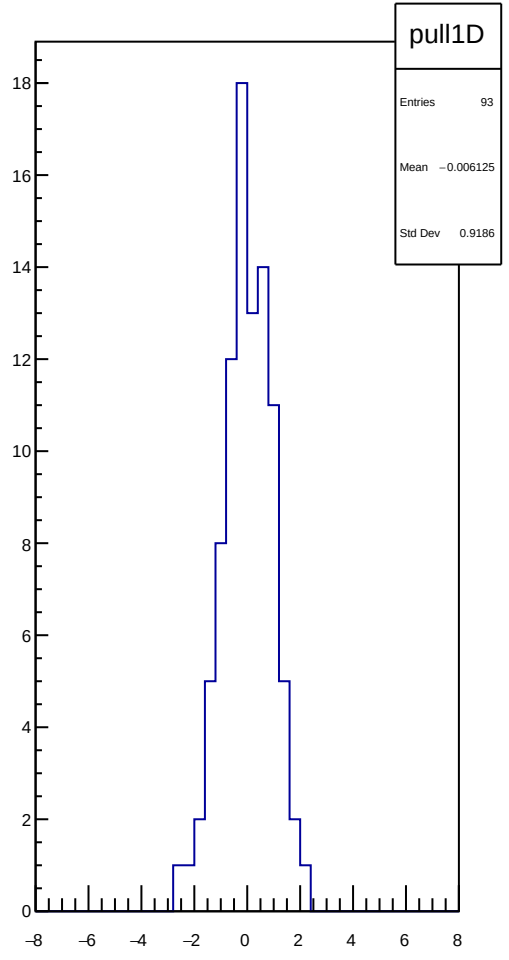

reg_asym_atr2_rms vs run
χ^2 / ndf 851.6 / 92
p0 2905 ± 2.146
3050
3000
2950
2900
2850
2800
2750

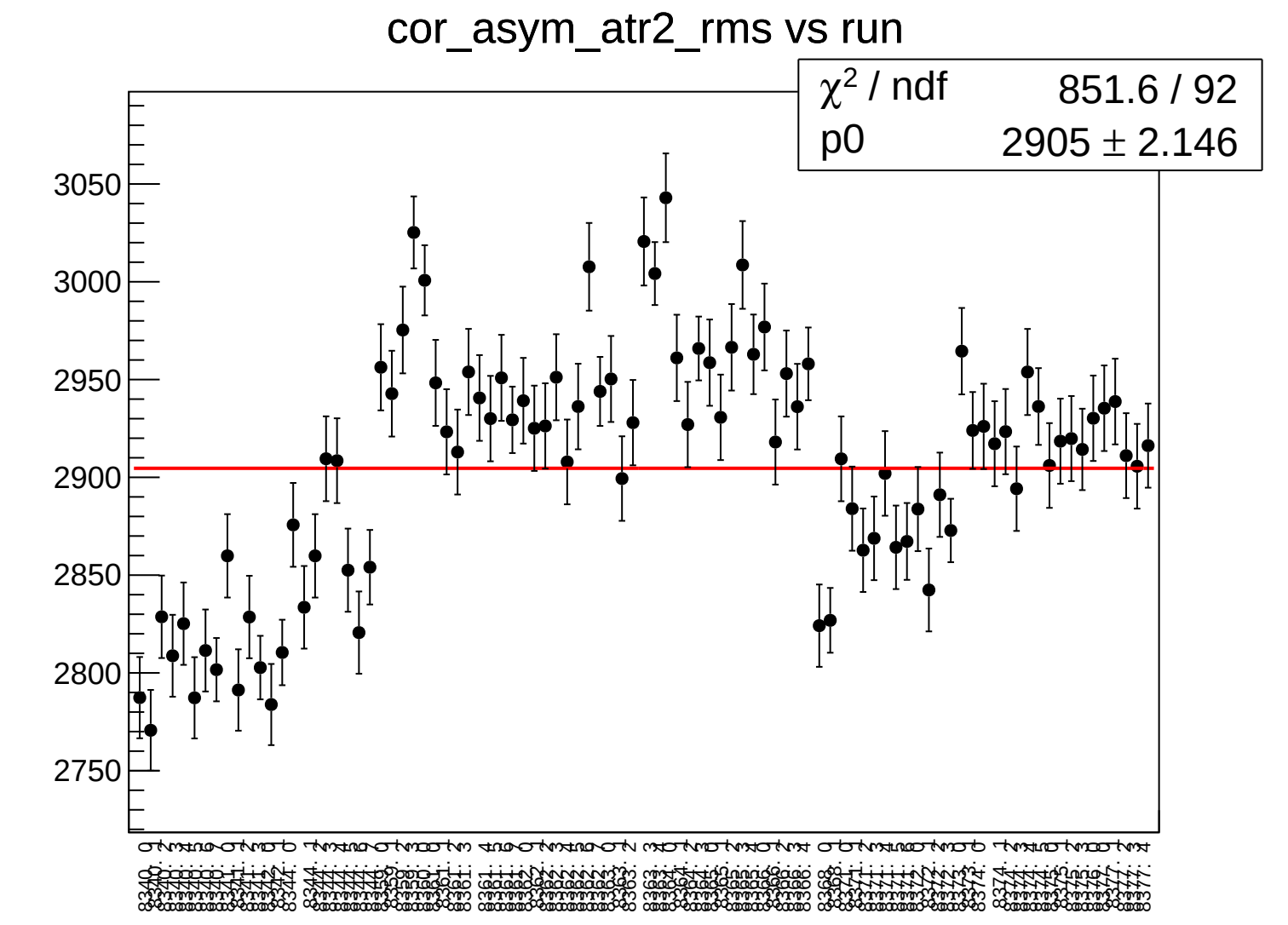

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 102.9 / 92
p0 −1.783e+04 ± 1.421e+04
600
400
200
0
−200
−400
pull
Entries 93
Mean −297.7
Std Dev 0
3
2
1
0
−1
−2

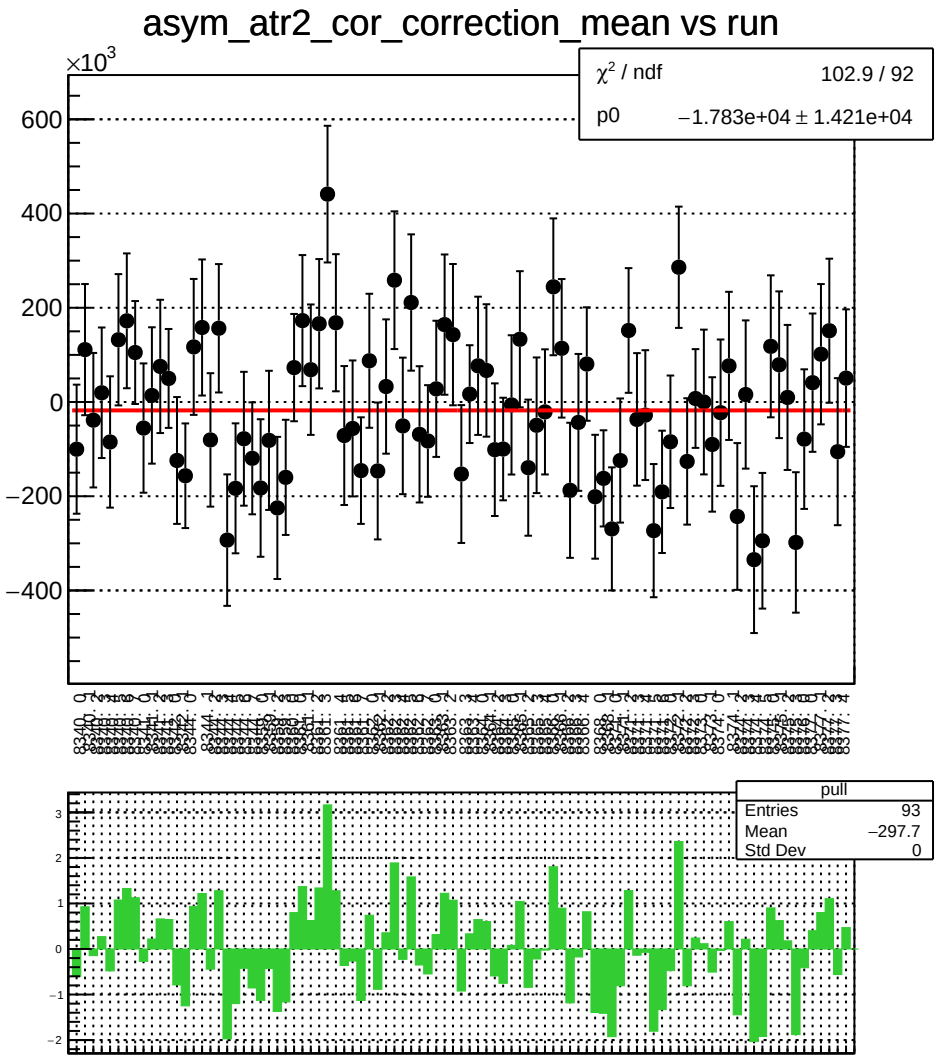

pull1D
Entries 93
Mean 0.01078
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

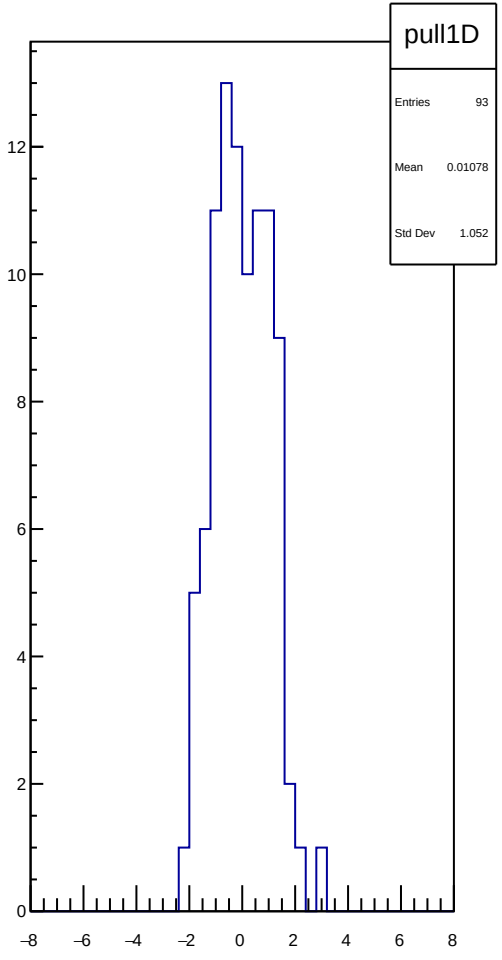

asym_atr2_reg_correction_rms vs run
χ² / ndf 4106 / 92
p0 1.359e+04 ± 10.05
15500
15000
14500
14000
13500
13000
12500
12000

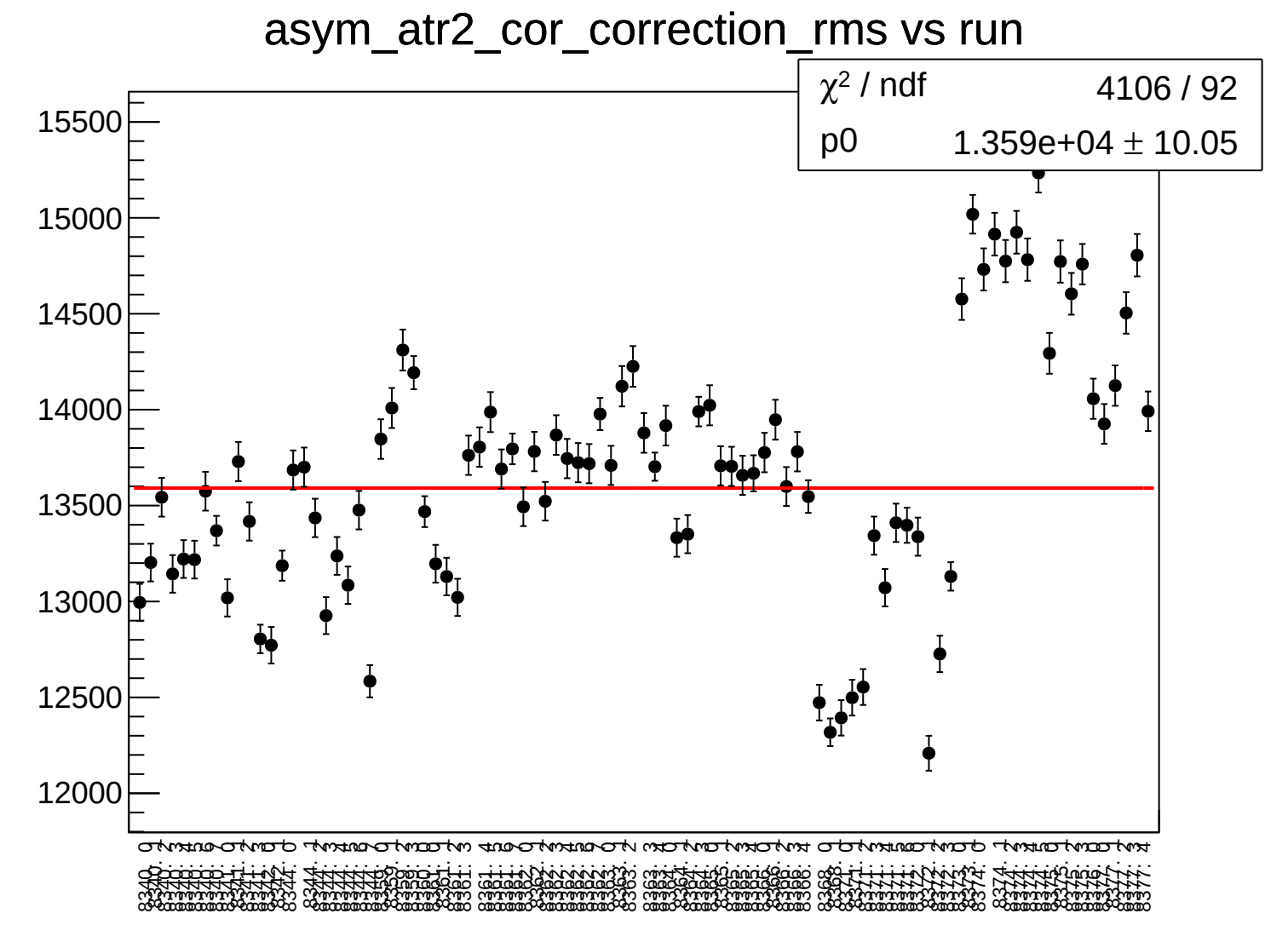

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 78.48 / 92
p0 2144 ± 3034
100
50
0
−50
−100
pull
Entries 93
Mean −170.3
Std Dev 0
2
1
0
−1
−2

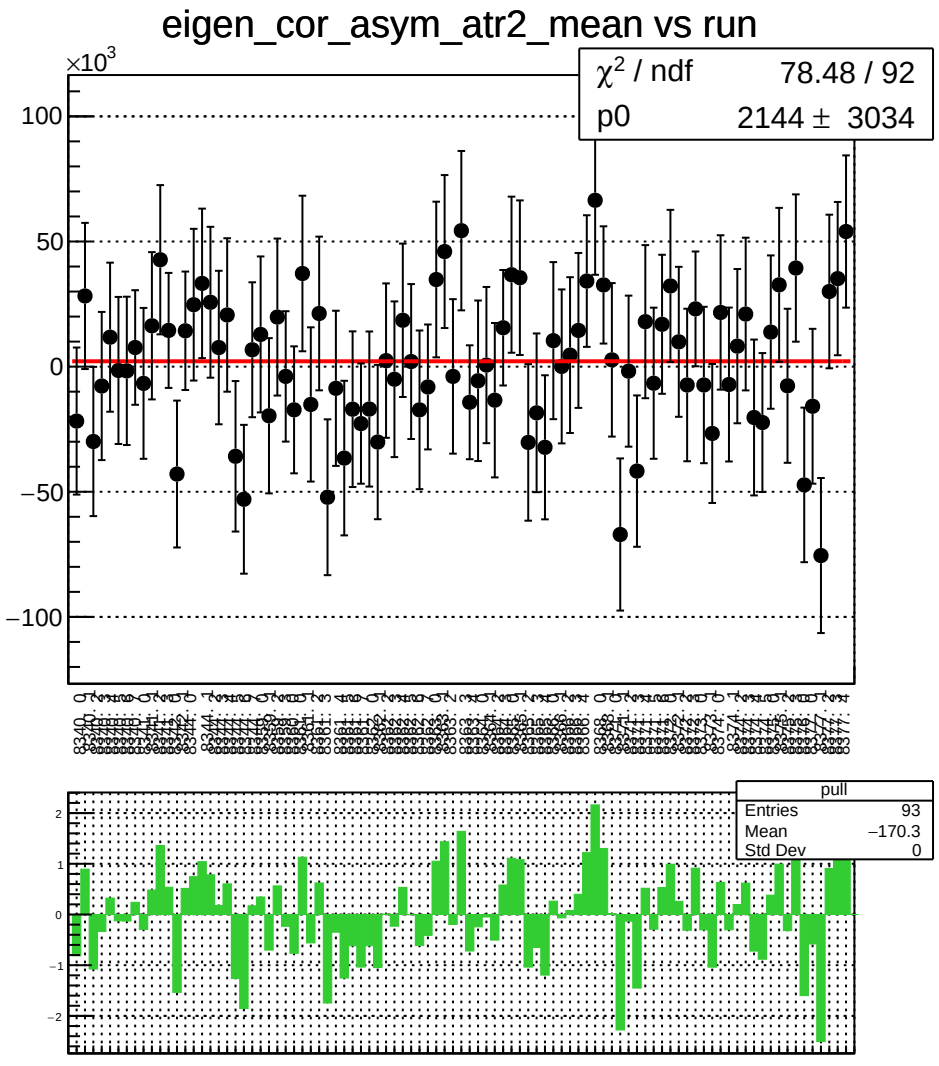

pull1D
Entries 93
Mean −0.006125
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

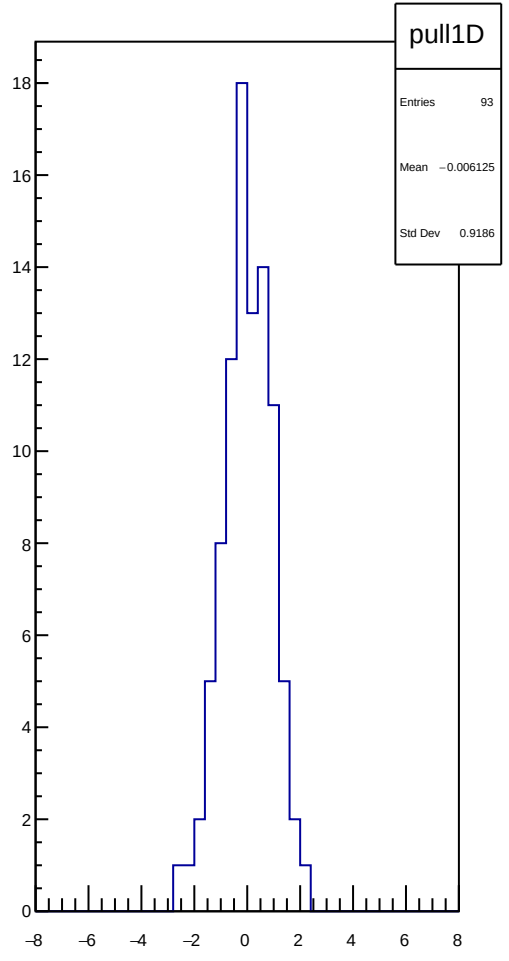

cor_asym_atr2_rms vs run
χ² / ndf 851.6 / 92
p0 2905 ± 2.146
3050
3000
2950
2900
2850
2800
2750


asym_atr2_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 102.9 / 92
p0 −1.783e+04 ± 1.421e+04
pull
Entries 93
Mean −297.7
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01078
Std Dev 1.052
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 4106 / 92
p0 1.359e+04 ± 10.05
15500
15000
14500
14000
13500
13000
12500
12000


eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 78.48 / 92
p0 2144 ± 3034
100
50
0
−50
−100
pull
Entries 93
Mean −170.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.006125
Std Dev 0.9186
18
16
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12
10
8
6
4
2
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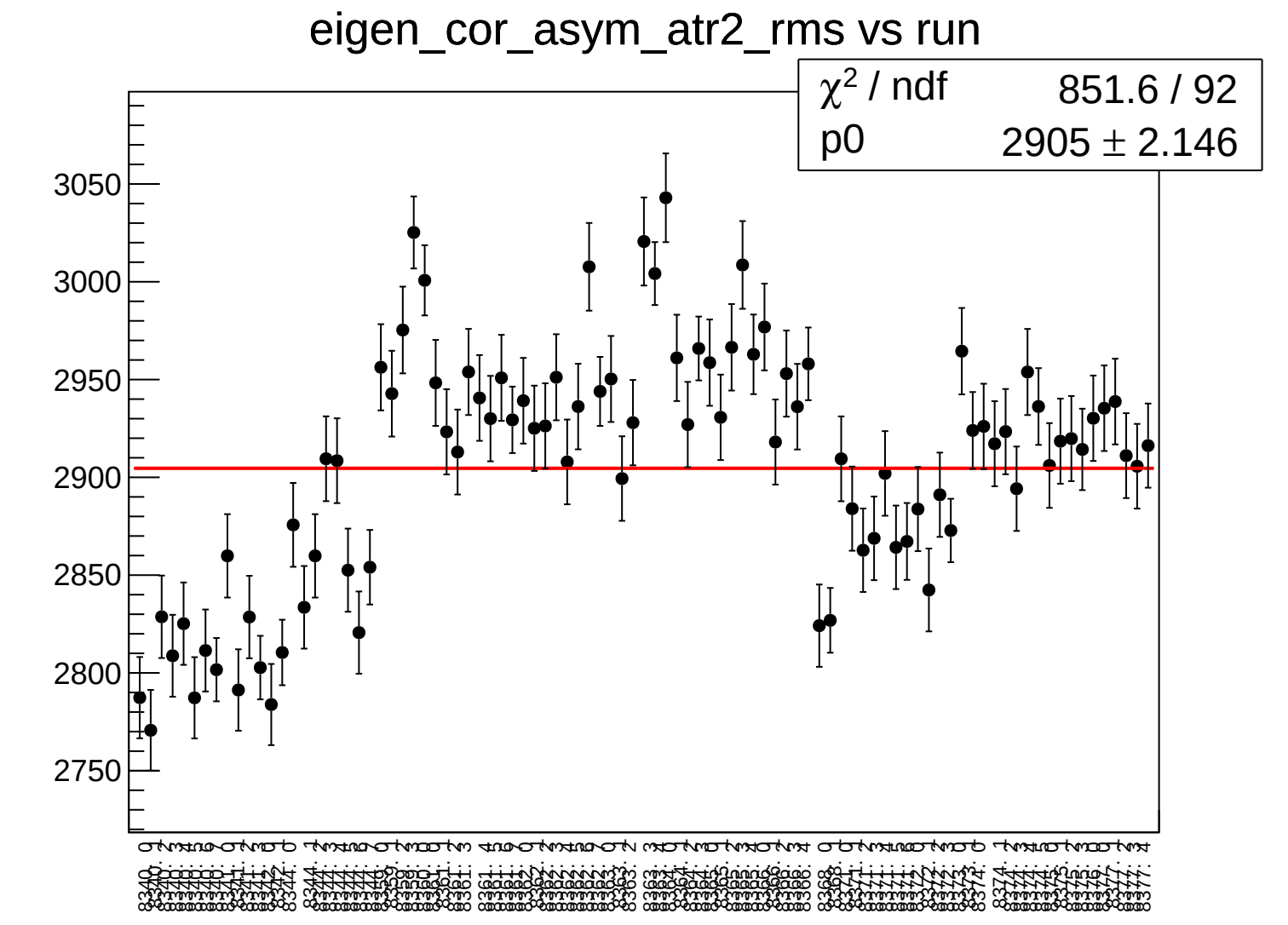
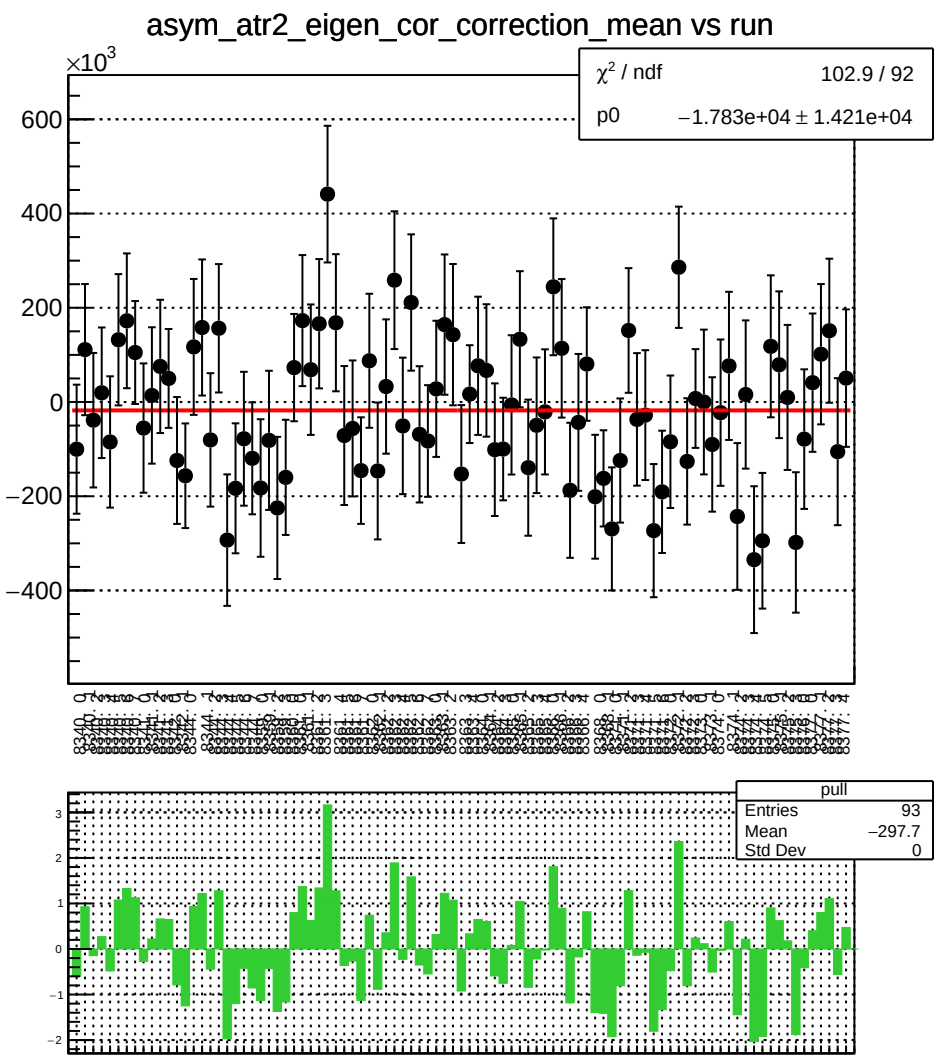
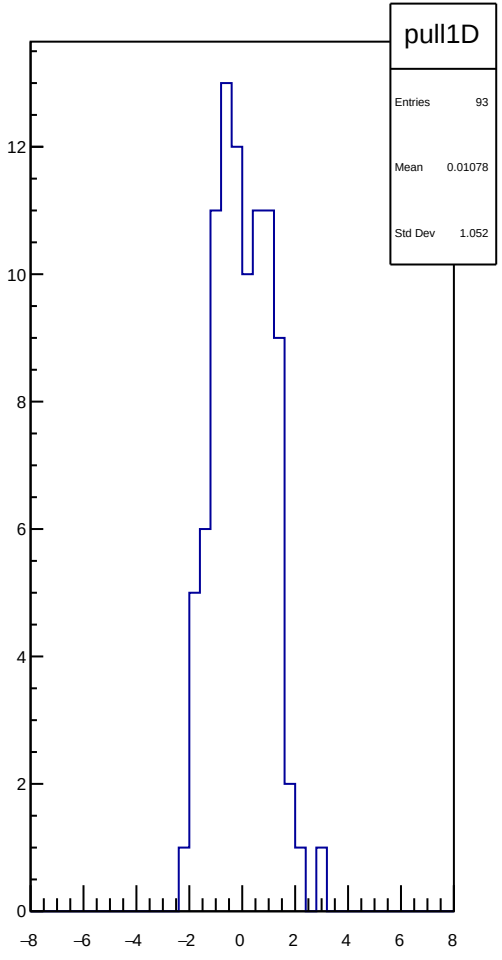
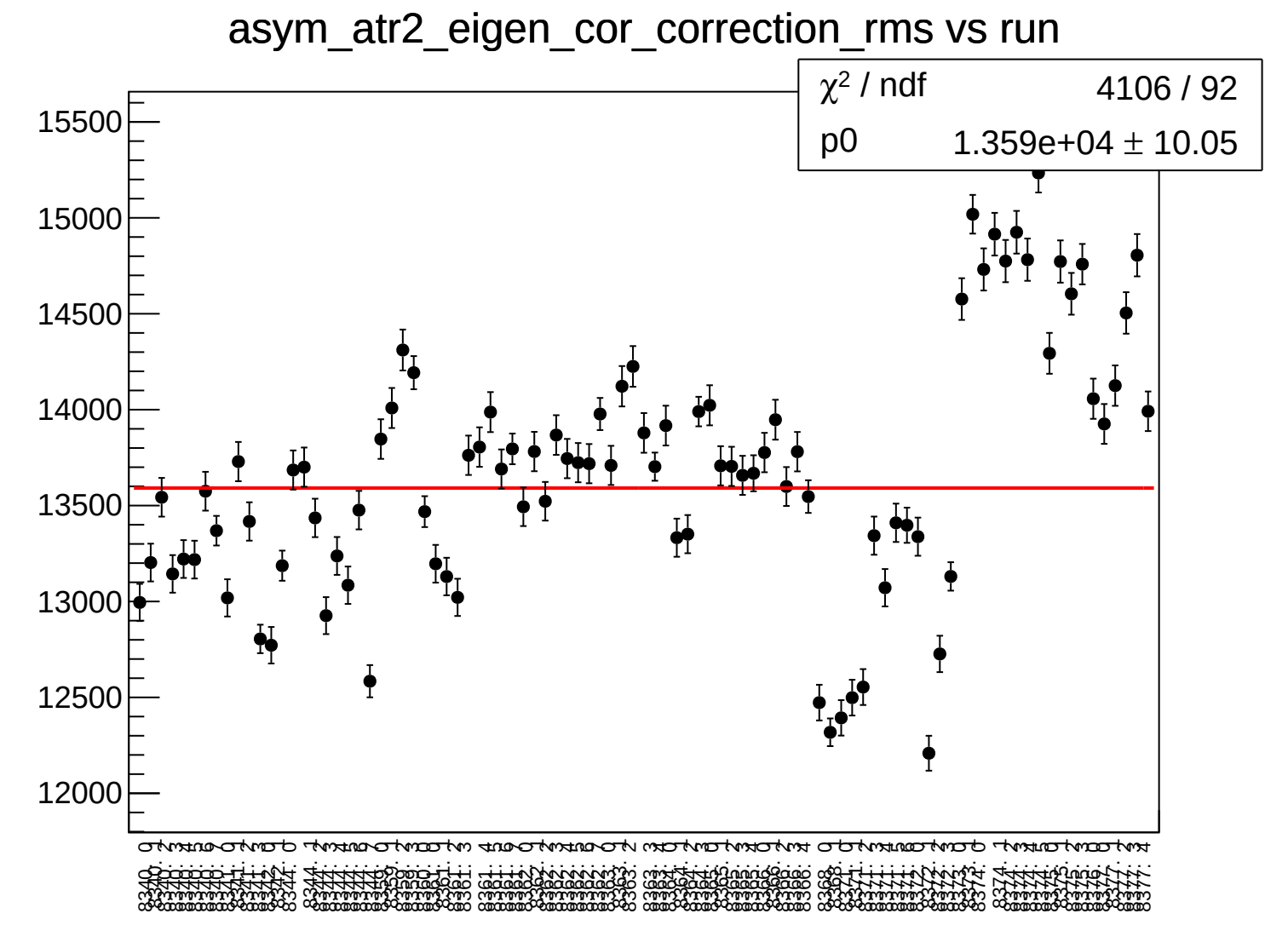
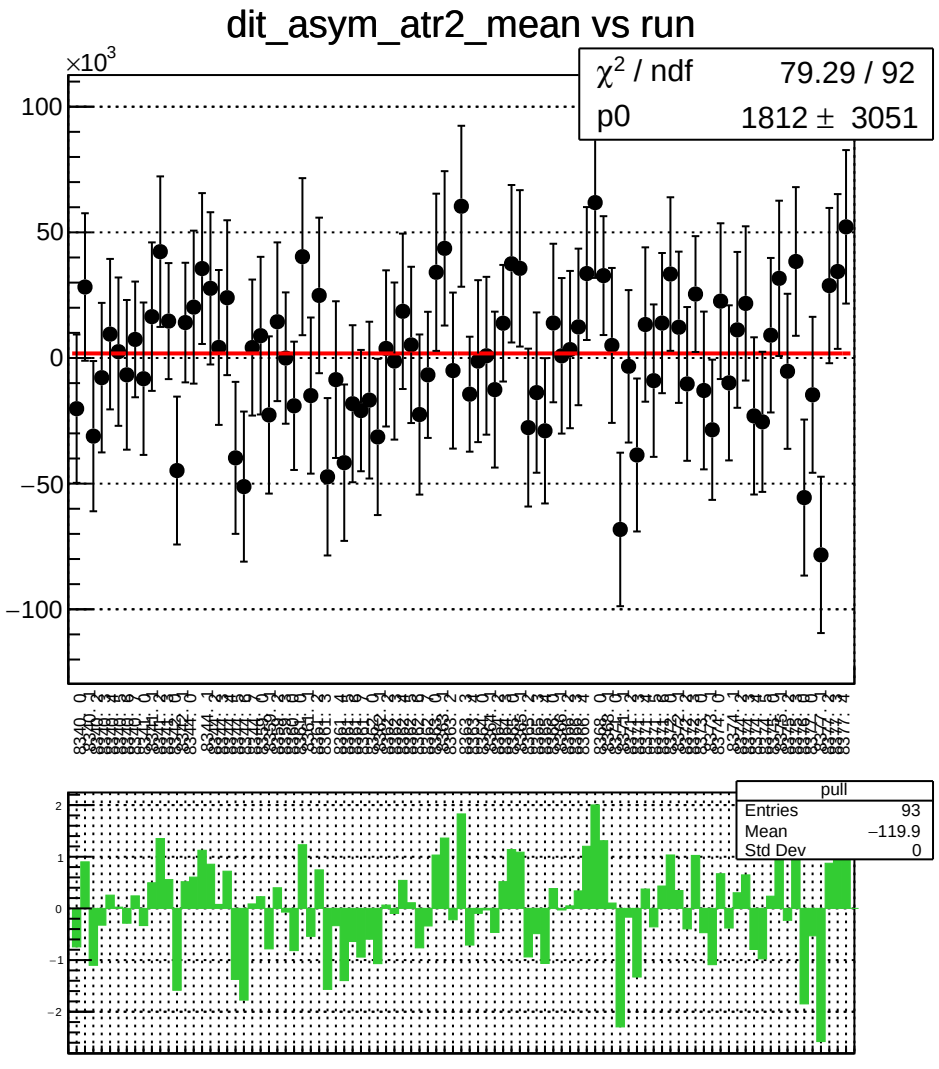
−8
−6
−4
−2
0
2
4
6
8

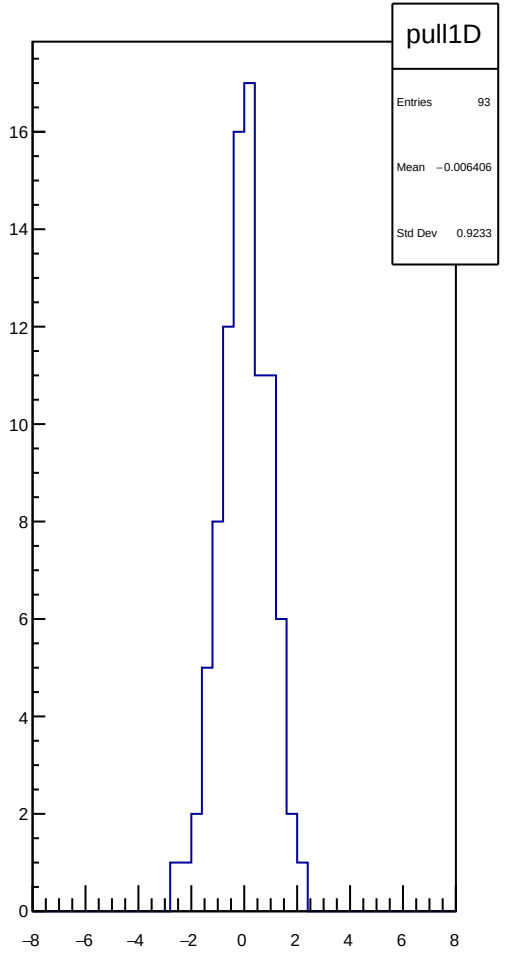

eigen_cor_asym_atr2_rms vs run
χ² / ndf 851.6 / 92
p0 2905 ± 2.146
3050
3000
2950
2900
2850
2800
2750

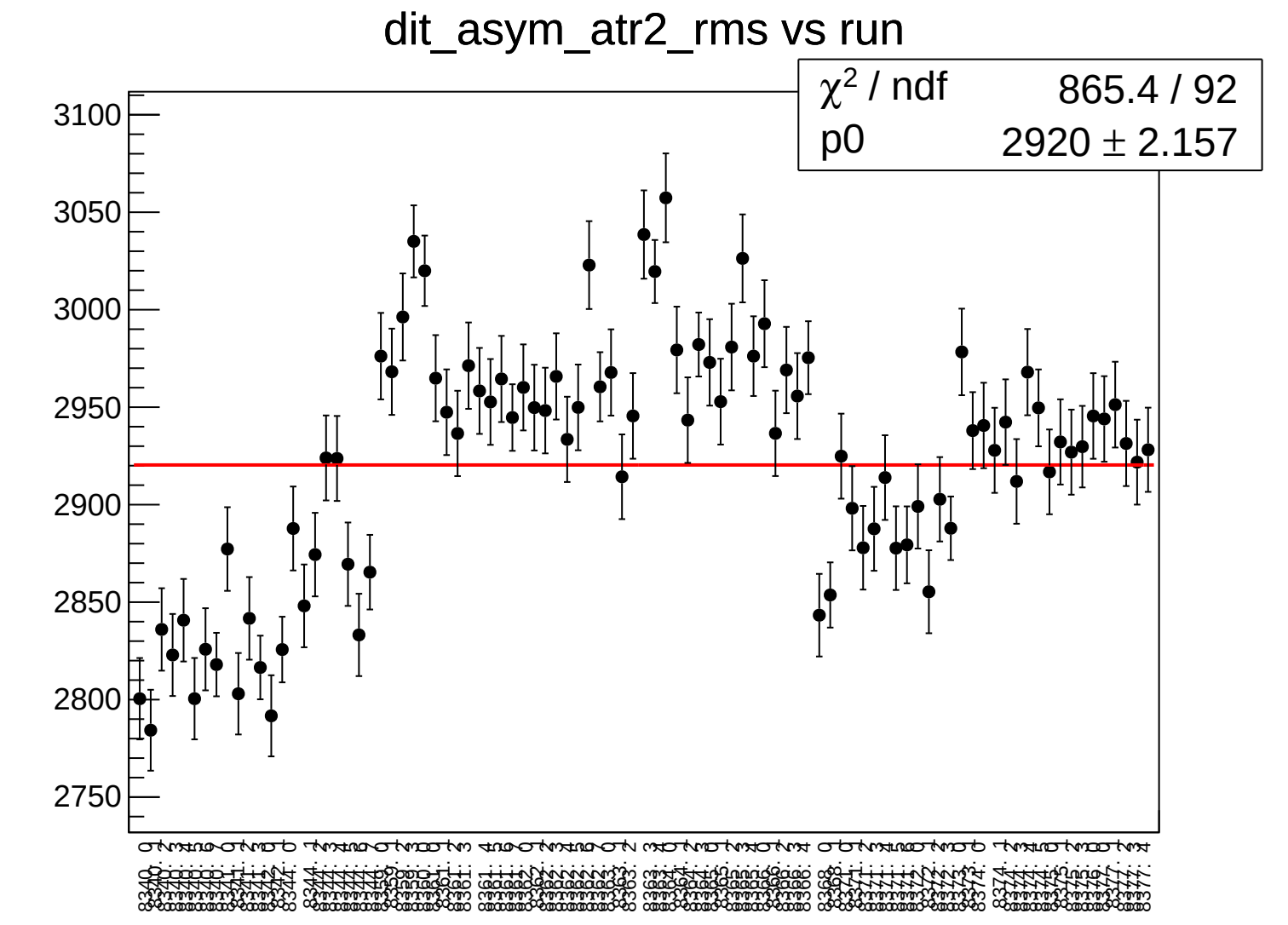

asym_atr2_eigen_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 102.9 / 92
p0 −1.783e+04 ± 1.421e+04
pull
Entries 93
Mean −297.7
Std Dev 0
3
2
1
0
−1
−2

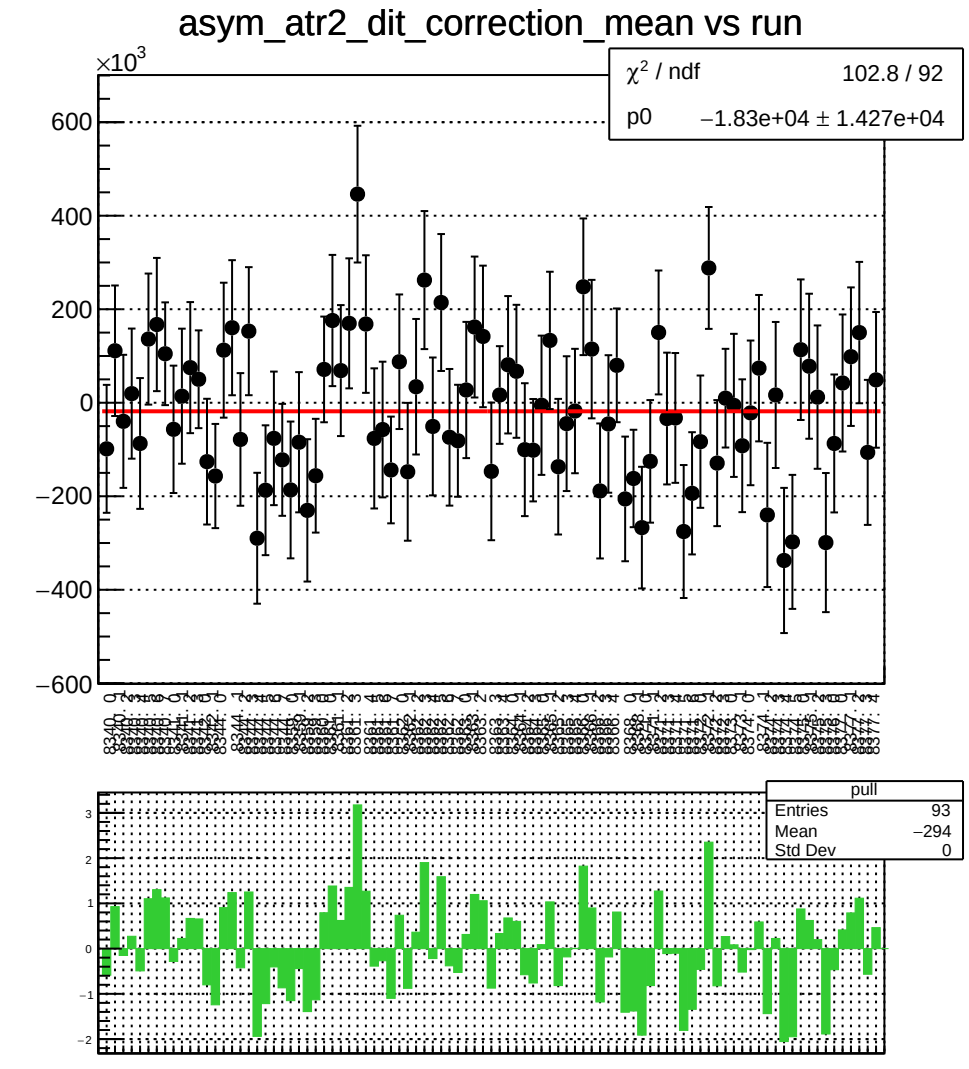

pull1D
Entries 93
Mean 0.01078
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

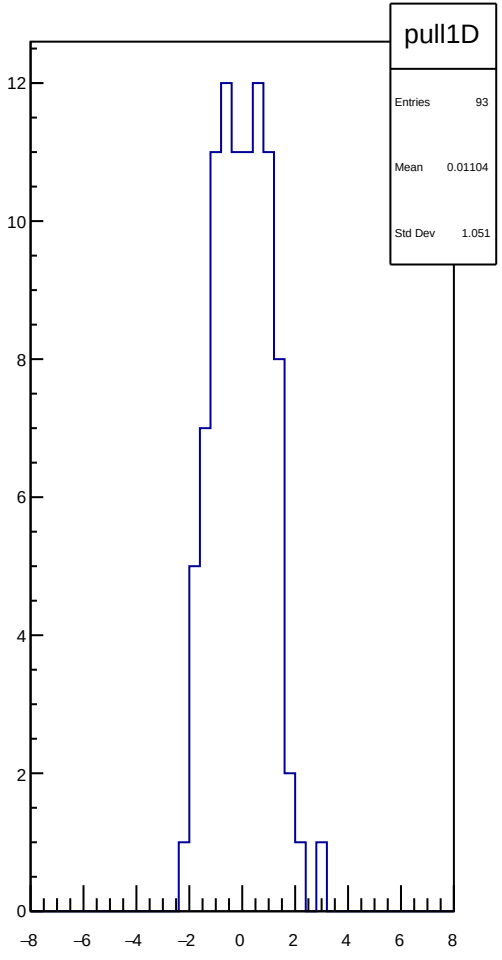

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4106 / 92
p0 1.359e+04 ± 10.05
15500
15000
14500
14000
13500
13000
12500
12000

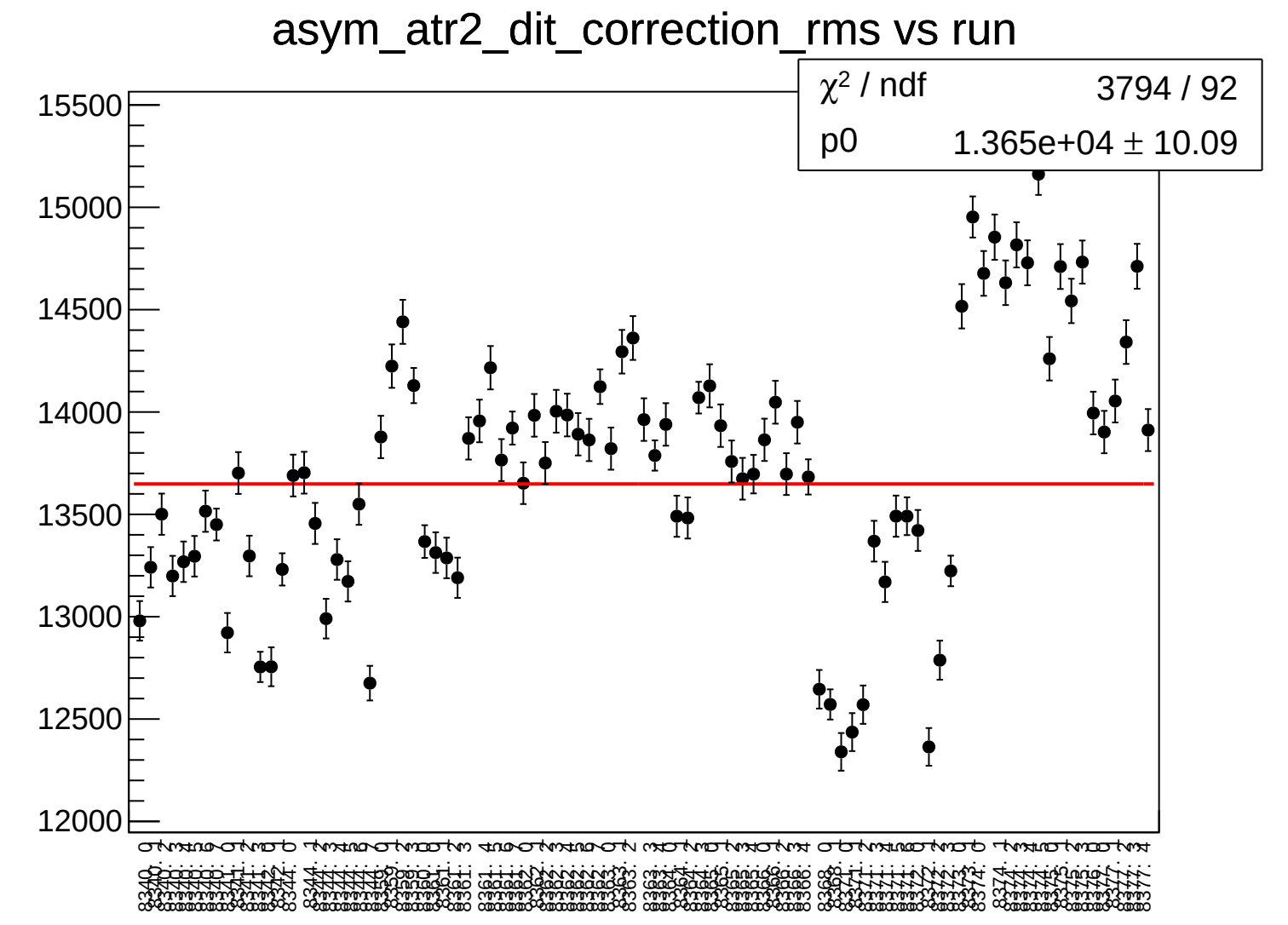

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 79.29 / 92
p0 1812 ± 3051
100
50
0
−50
−100
pull
Entries 93
Mean −119.9
Std Dev 0
2
1
0
−1
−2

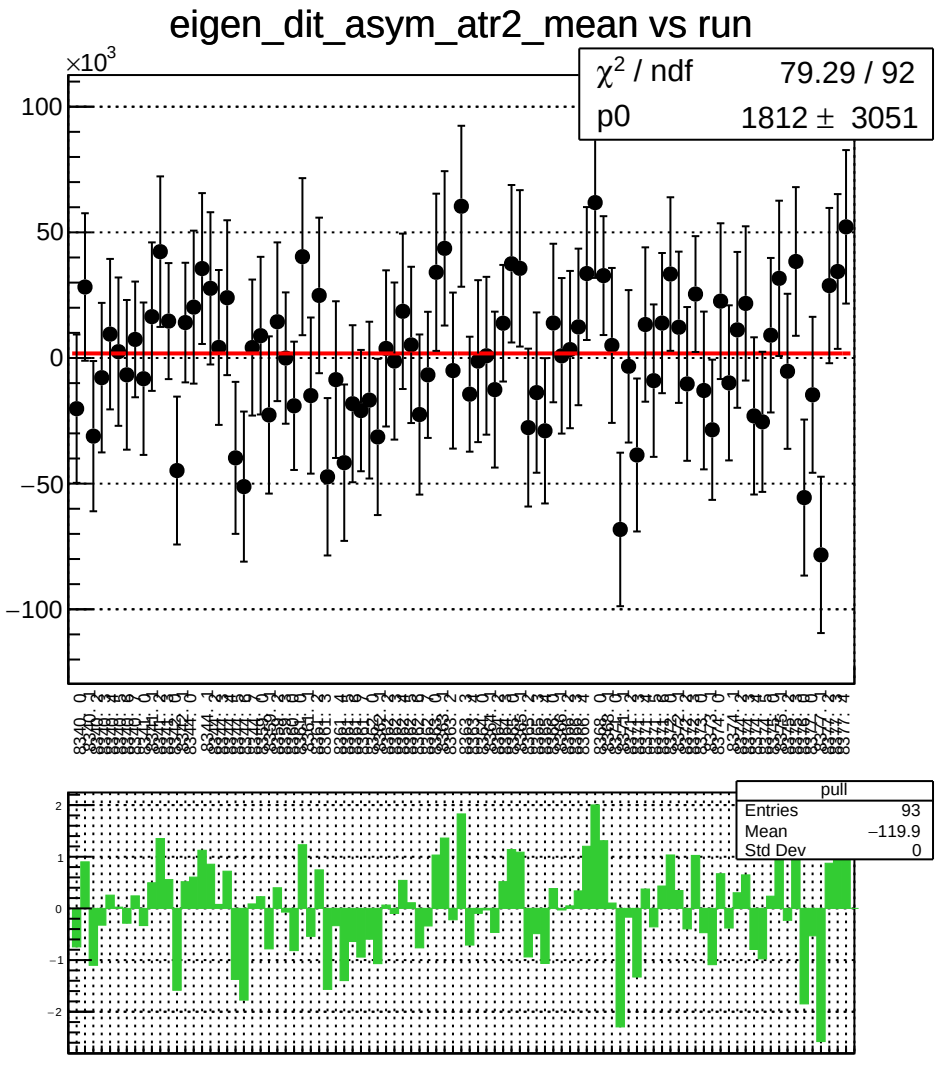

pull1D
Entries 93
Mean −0.006406
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

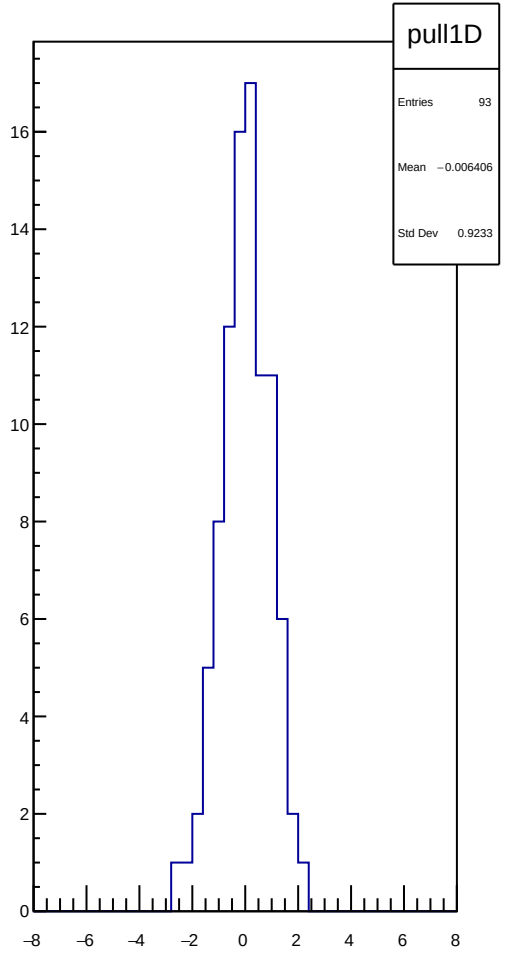

dit_asym_atr2_rms vs run
χ^2 / ndf 865.4 / 92
p0 2920 ± 2.157
3100
3050
3000
2950
2900
2850
2800
2750


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 102.8 / 92
p0 −1.83e+04 ± 1.427e+04
pull
Entries 93
Mean −294
Std Dev 0


pull1D
Entries 93
Mean 0.01104
Std Dev 1.051


asym_atr2_dit_correction_rms vs run
χ² / ndf 3794 / 92
p0 1.365e+04 ± 10.09
15500
15000
14500
14000
13500
13000
12500
12000


eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 79.29 / 92
p0 1812 ± 3051
100
50
0
−50
−100
pull
Entries 93
Mean −119.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.006406
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
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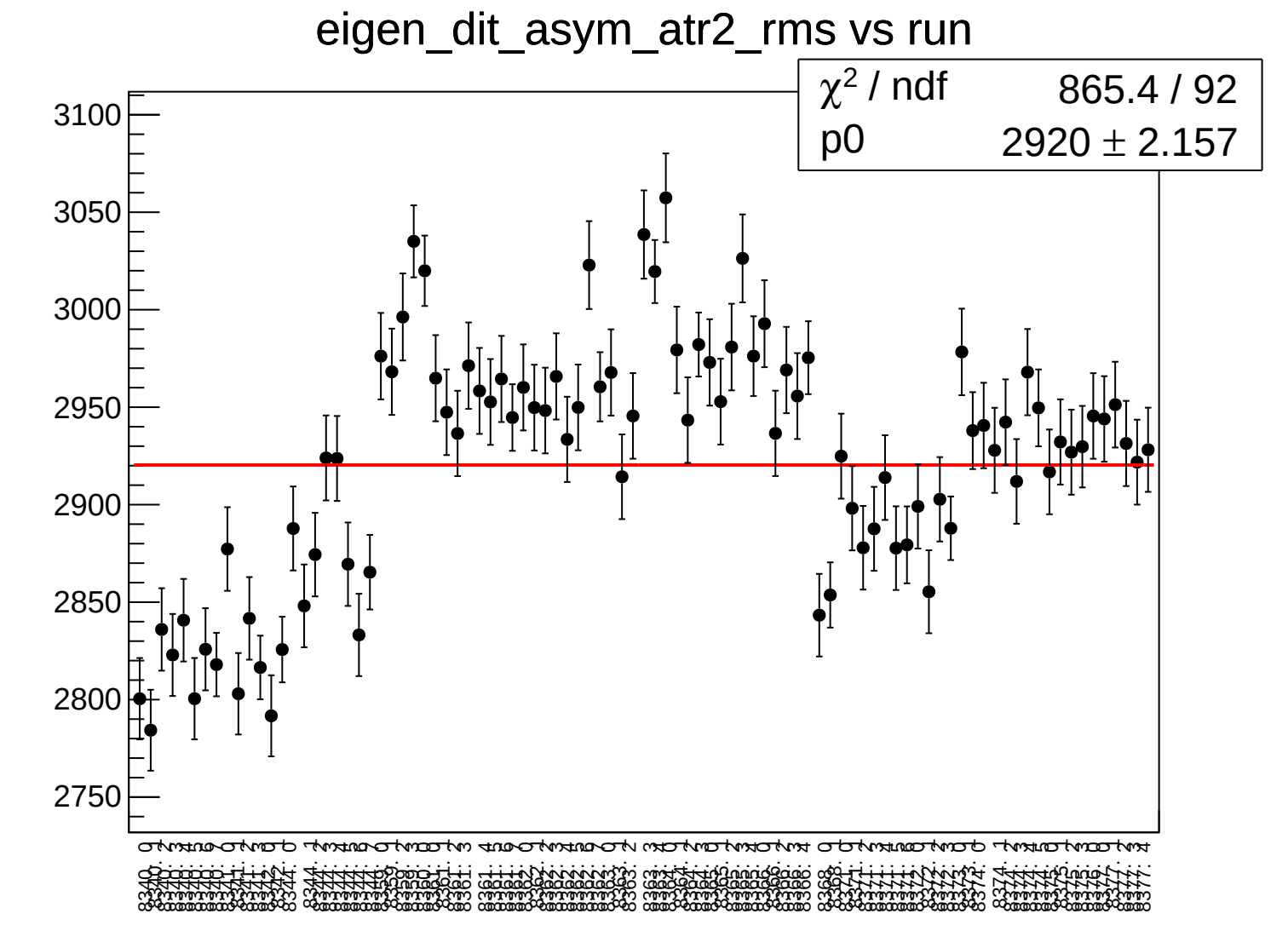
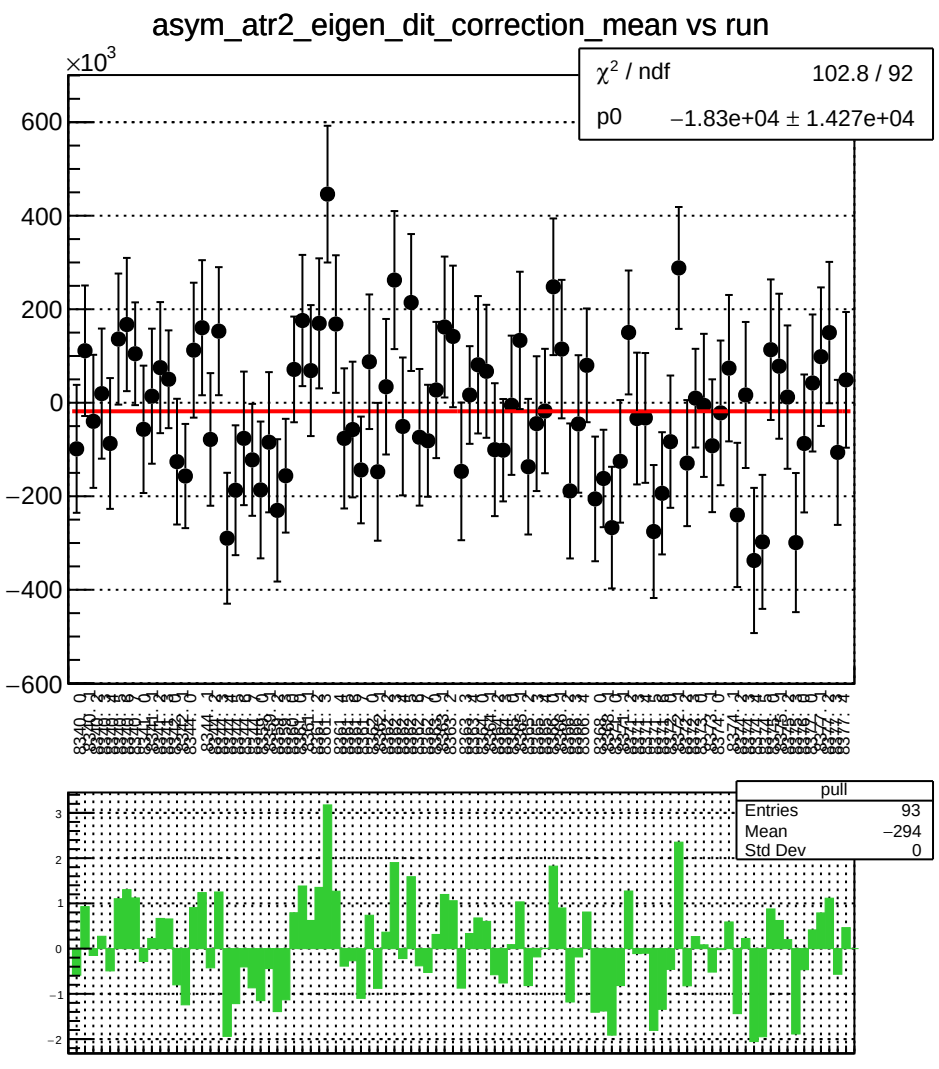
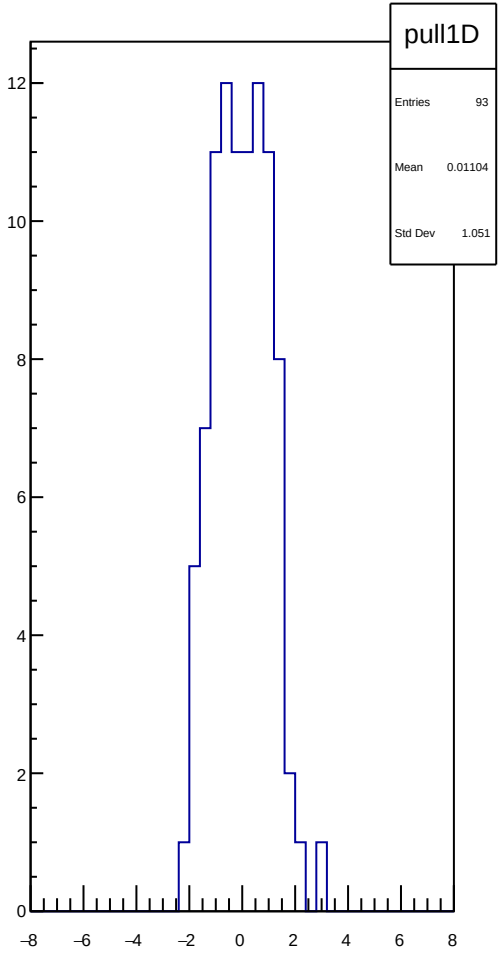
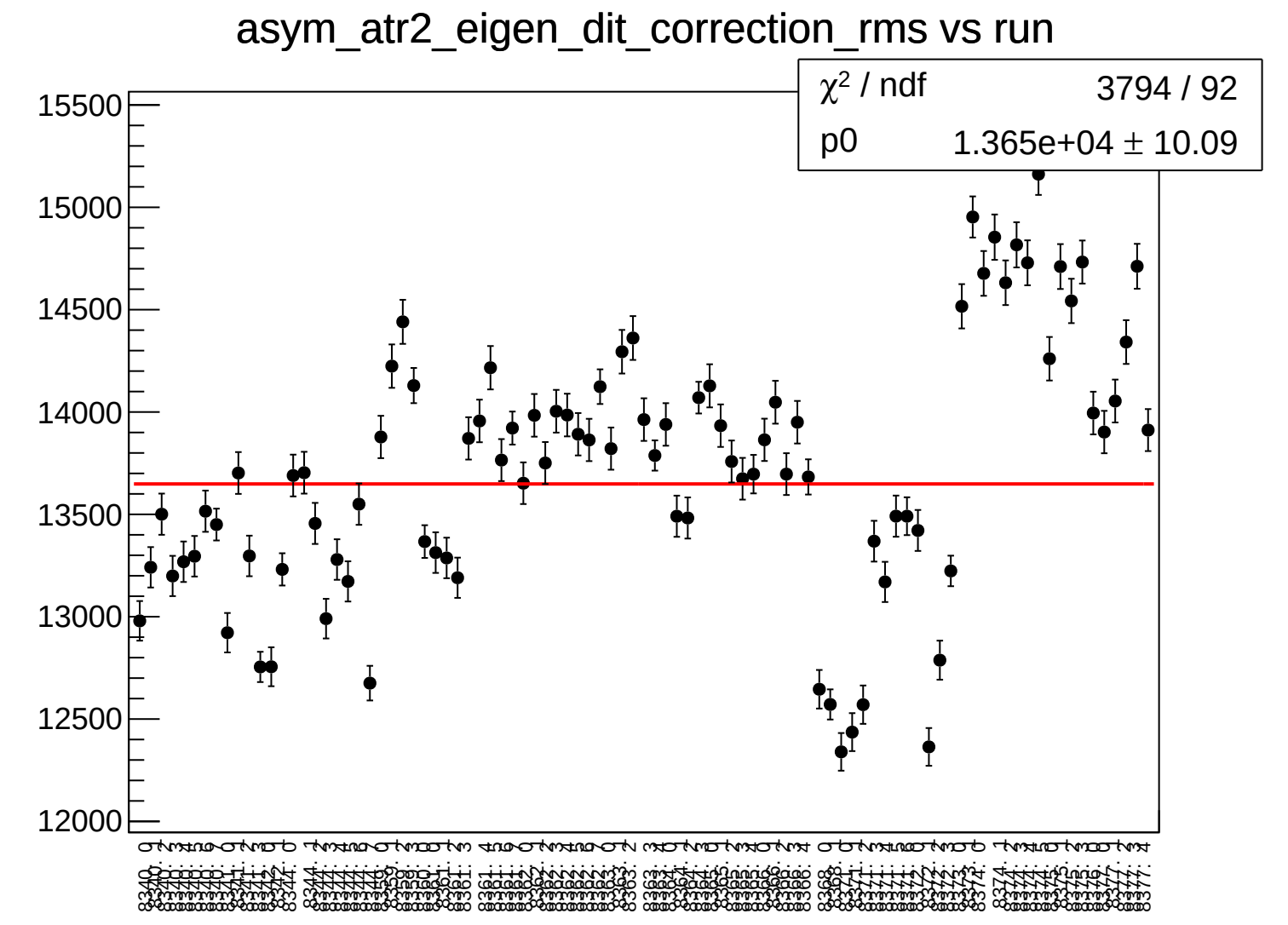
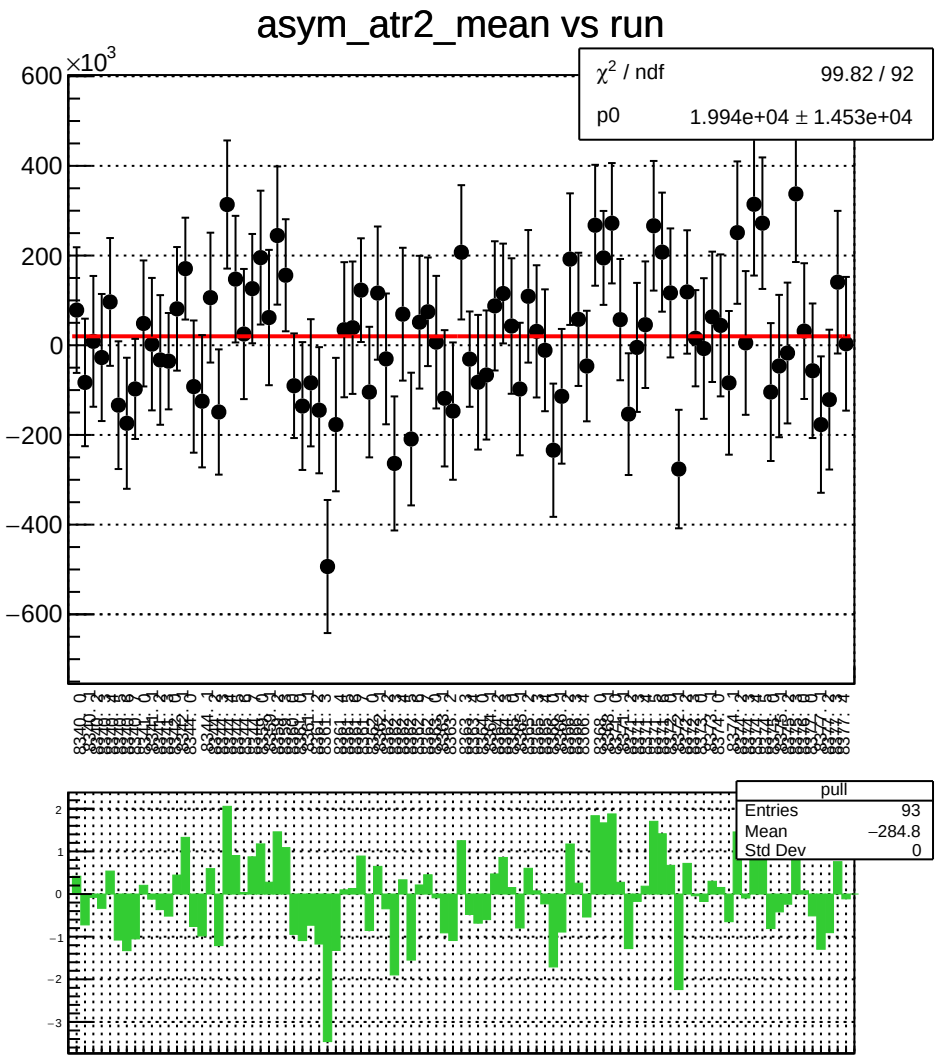
2
4
6
8

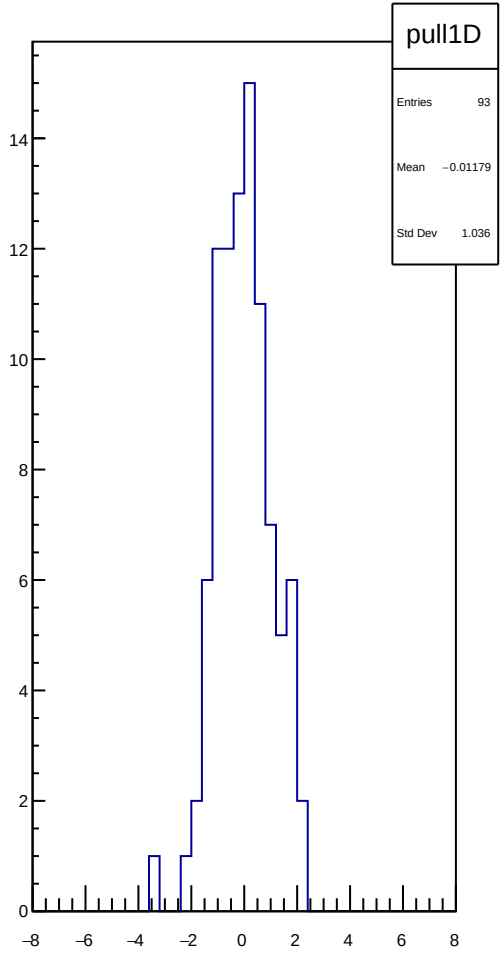

eigen_dit_asym_atr2_rms vs run
χ^2 / ndf 865.4 / 92
p0 2920 ± 2.157
3100
3050
3000
2950
2900
2850
2800
2750

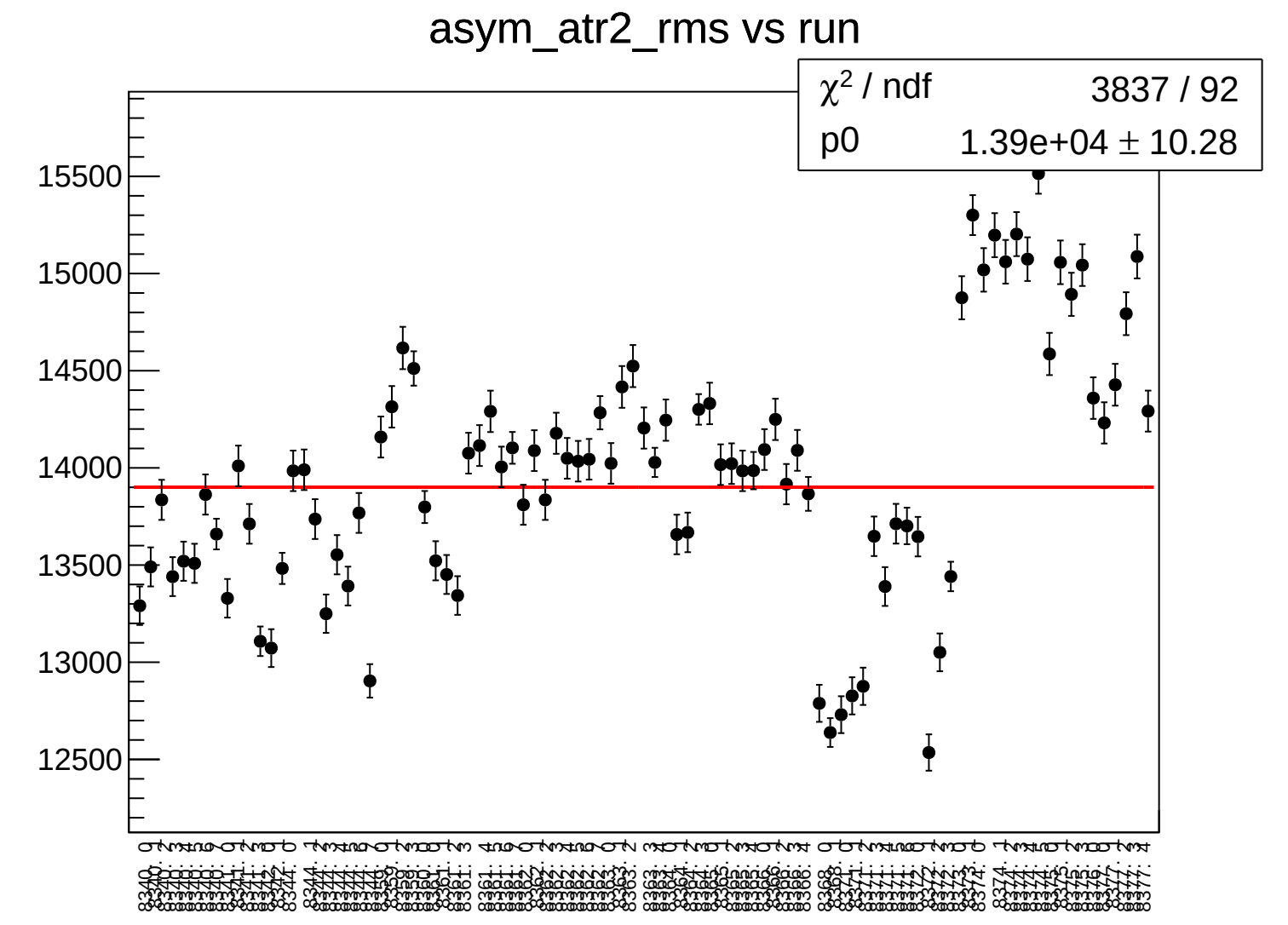

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.8 / 92
p0 −1.83e+04 ± 1.427e+04
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −294
Std Dev 0
3
2
1
0
−1
−2

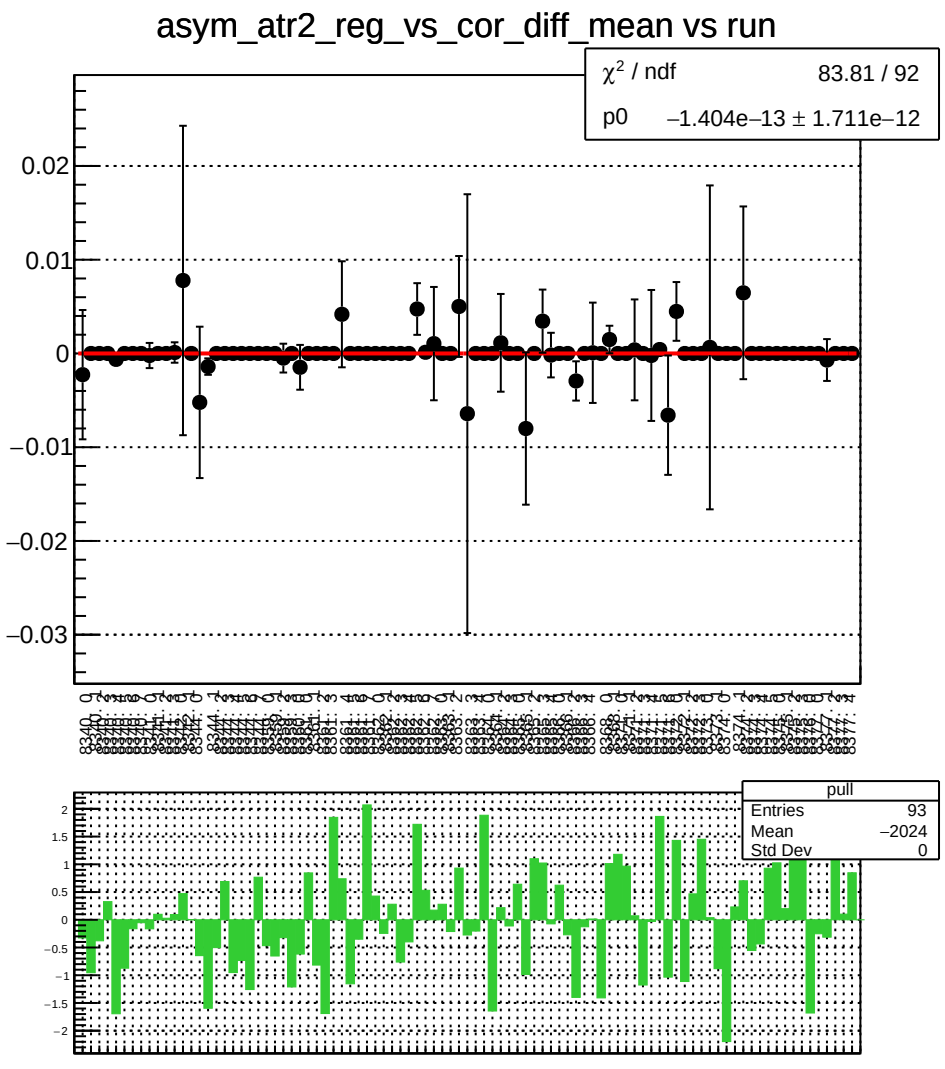

pull1D
Entries 93
Mean 0.01104
Std Dev 1.051
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

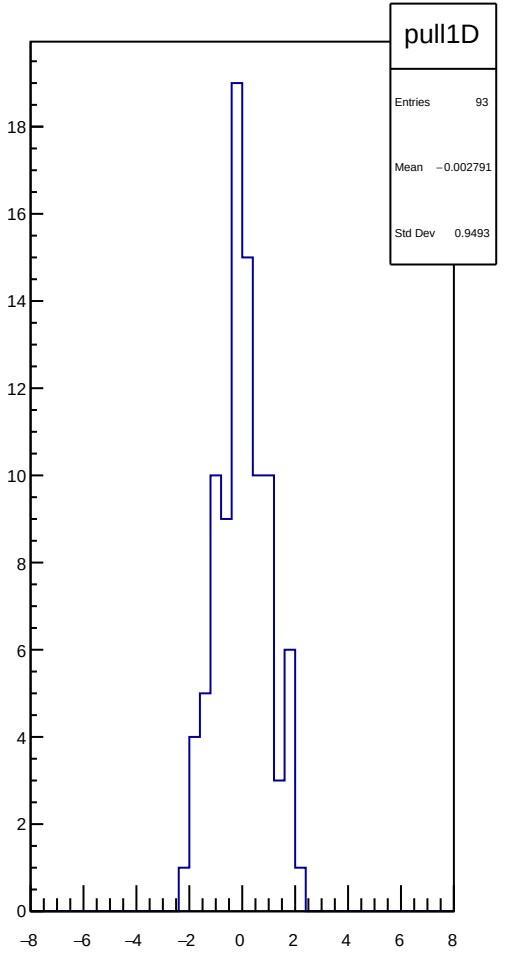

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3794 / 92
p0 1.365e+04 ± 10.09
15500
15000
14500
14000
13500
13000
12500
12000

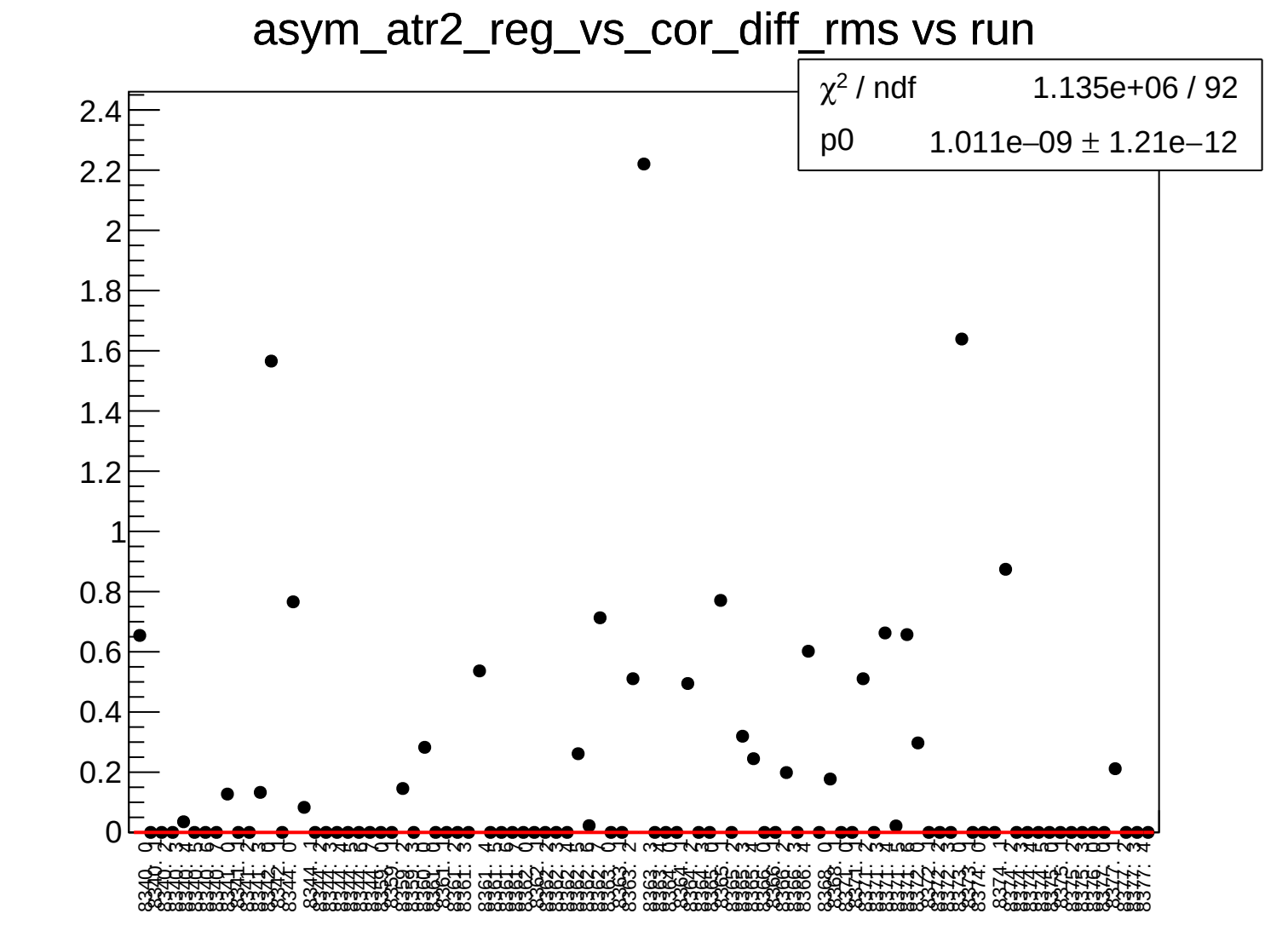

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 99.82 / 92
p0 1.994e+04 ± 1.453e+04
pull
Entries 93
Mean −284.8
Std Dev 0
2
1
0
−1
−2
−3

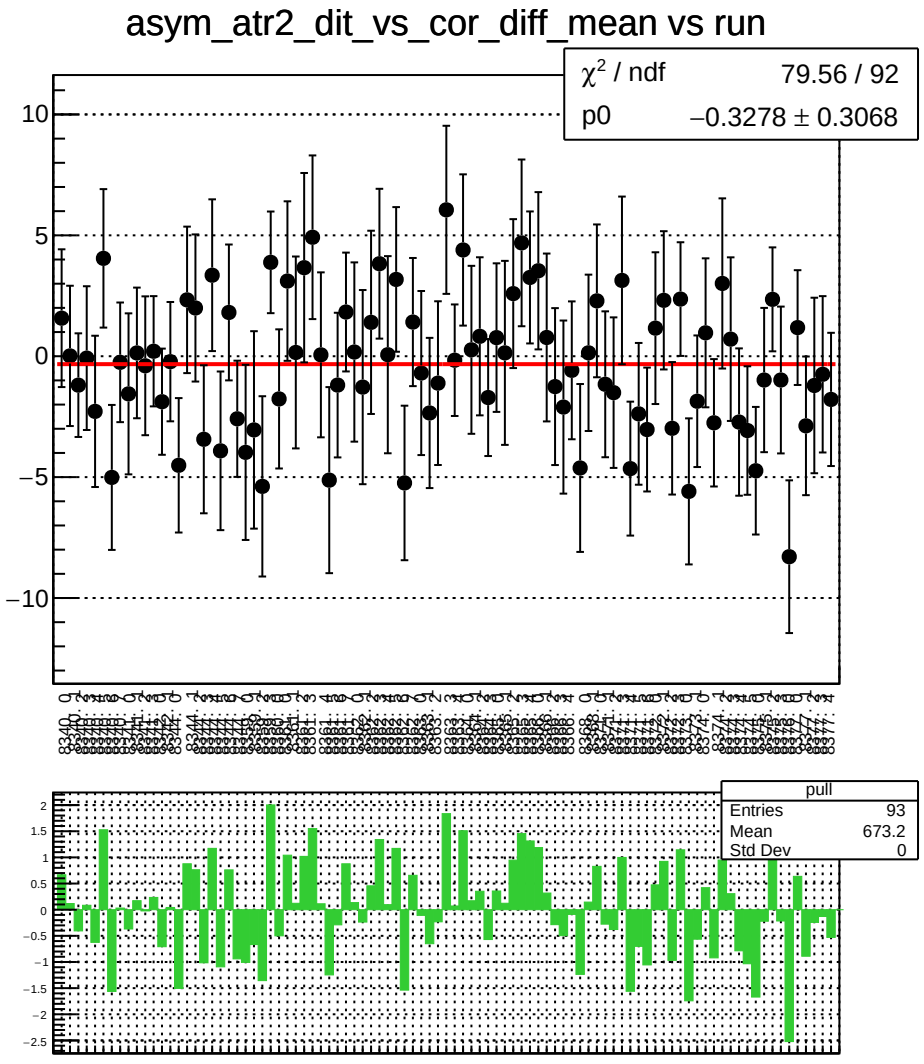

pull1D
Entries 93
Mean −0.01179
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

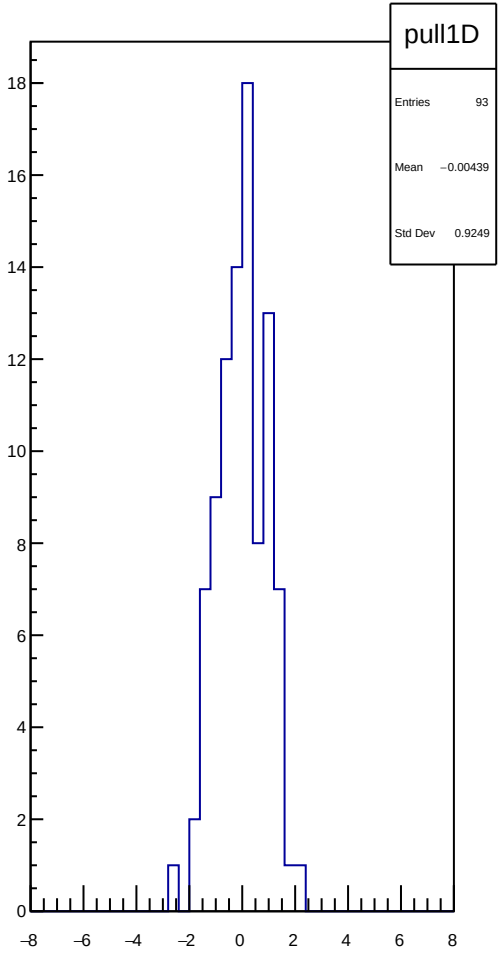

asym_atr2_rms vs run
χ² / ndf 3837 / 92
p0 1.39e+04 ± 10.28
15500
15000
14500
14000
13500
13000
12500

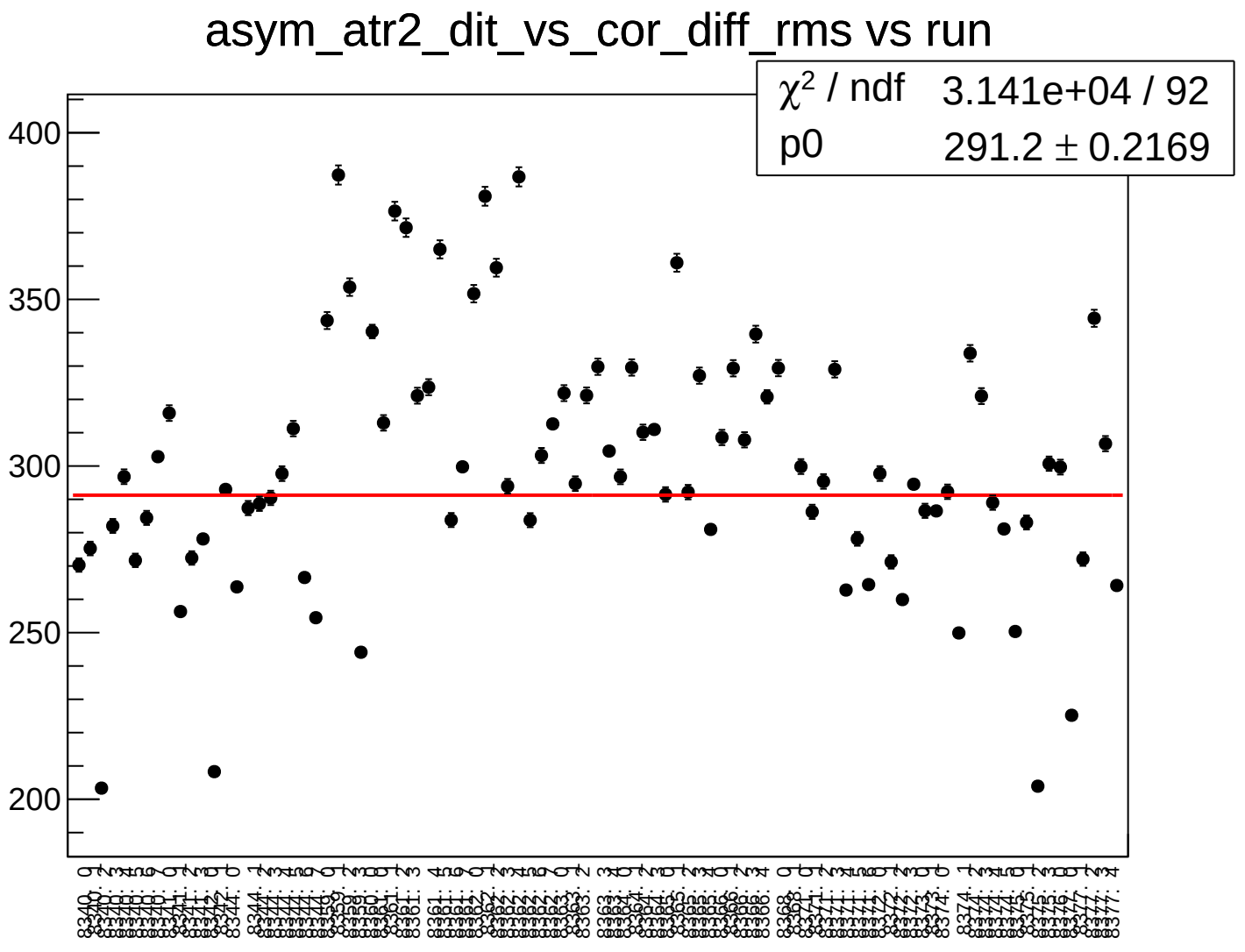

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 83.81 / 92
p0 −1.404e−13 ± 1.711e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean −2024
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

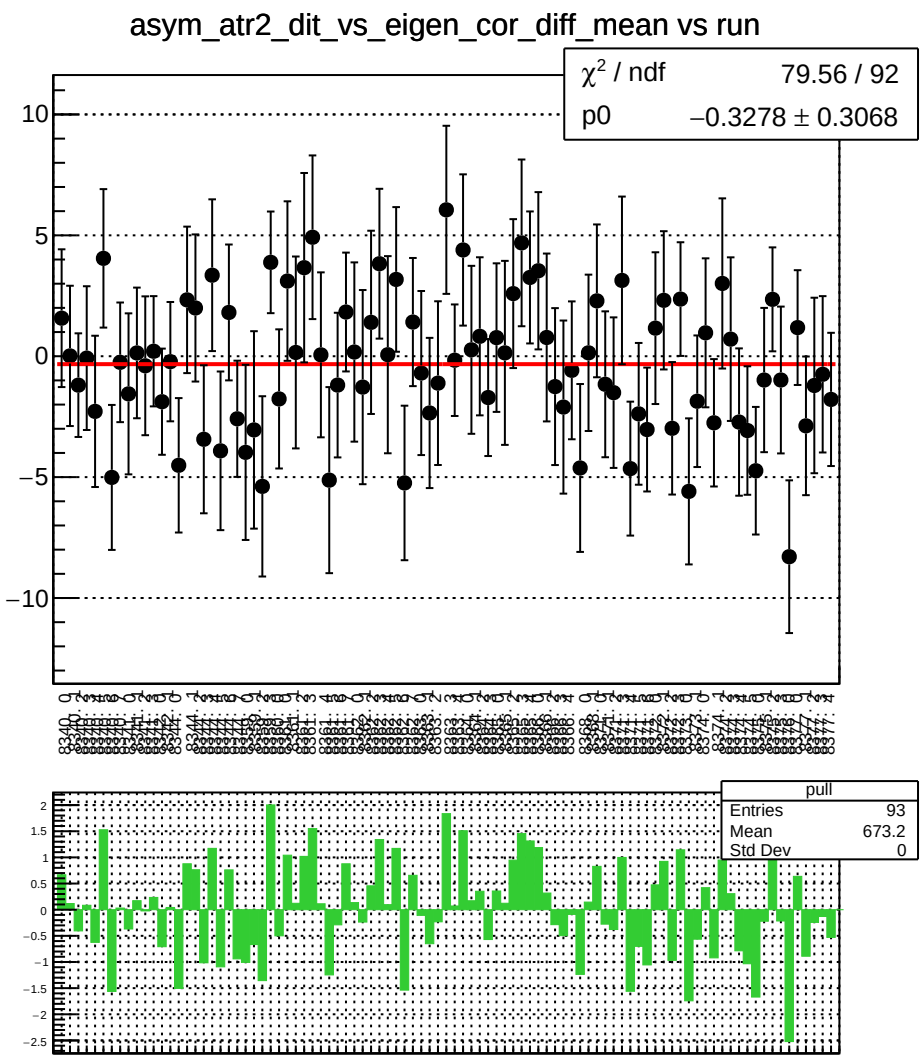

pull1D
Entries 93
Mean −0.002791
Std Dev 0.9493
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

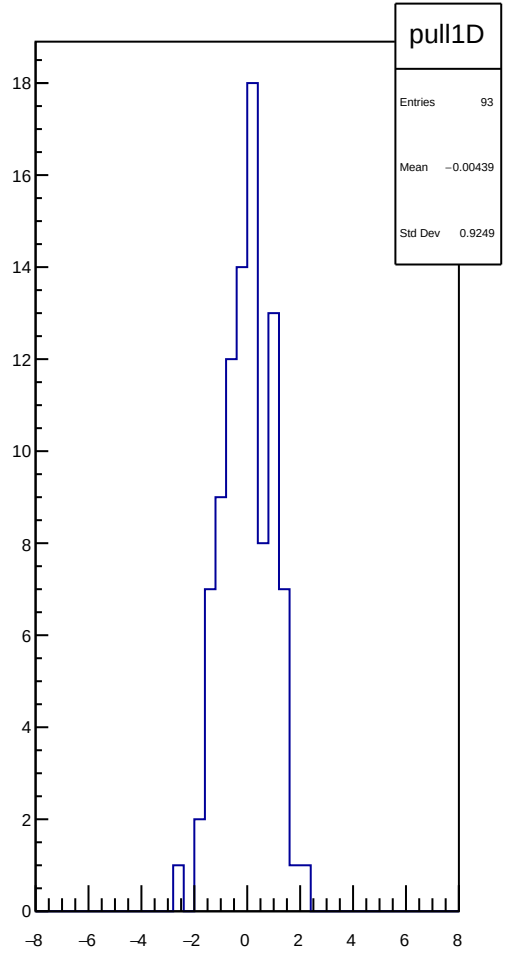

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 92
p0 1.011e−09 ± 1.21e−12
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

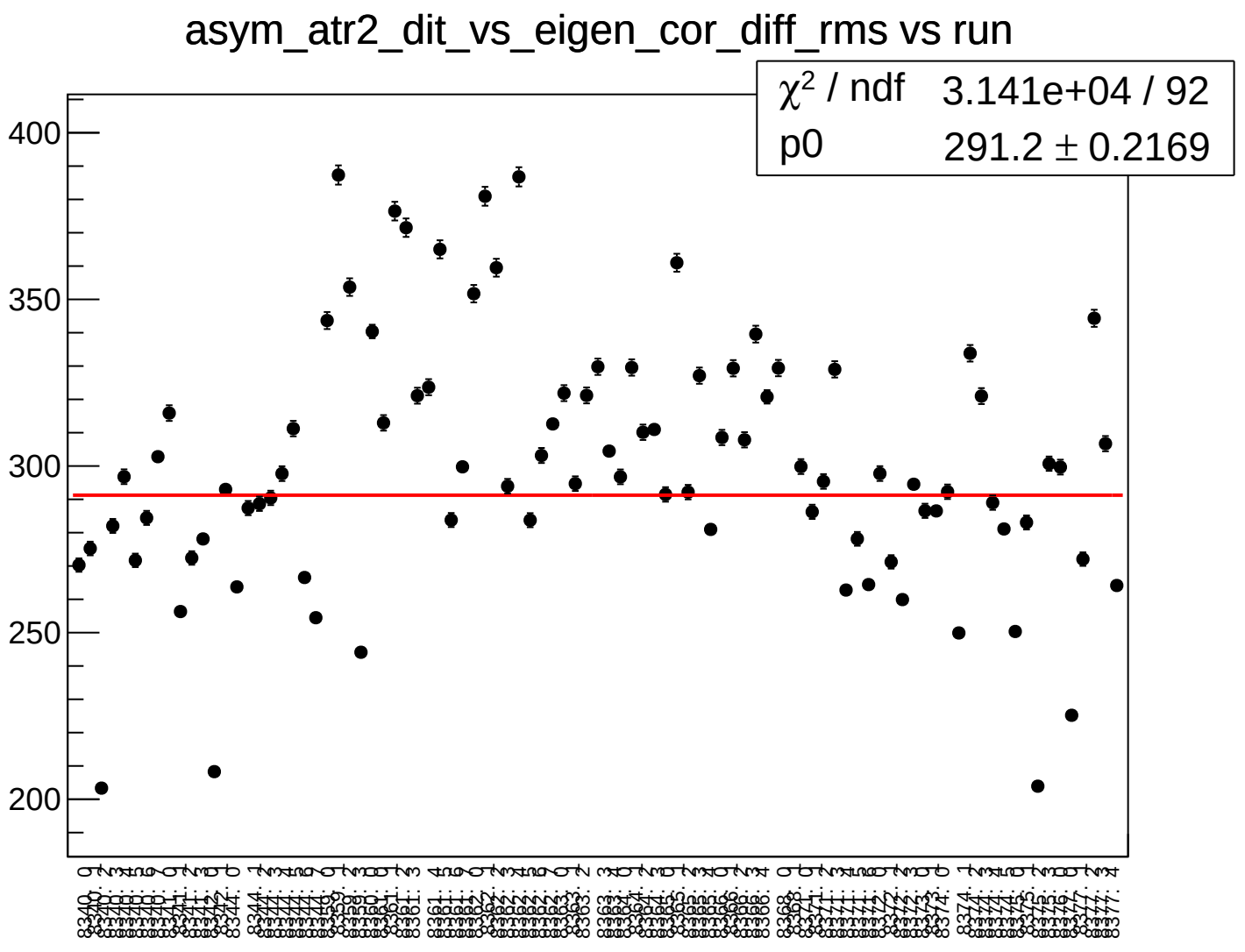

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 92
p0 −0.3278 ± 0.3068
pull
Entries 93
Mean 673.2
Std Dev 0

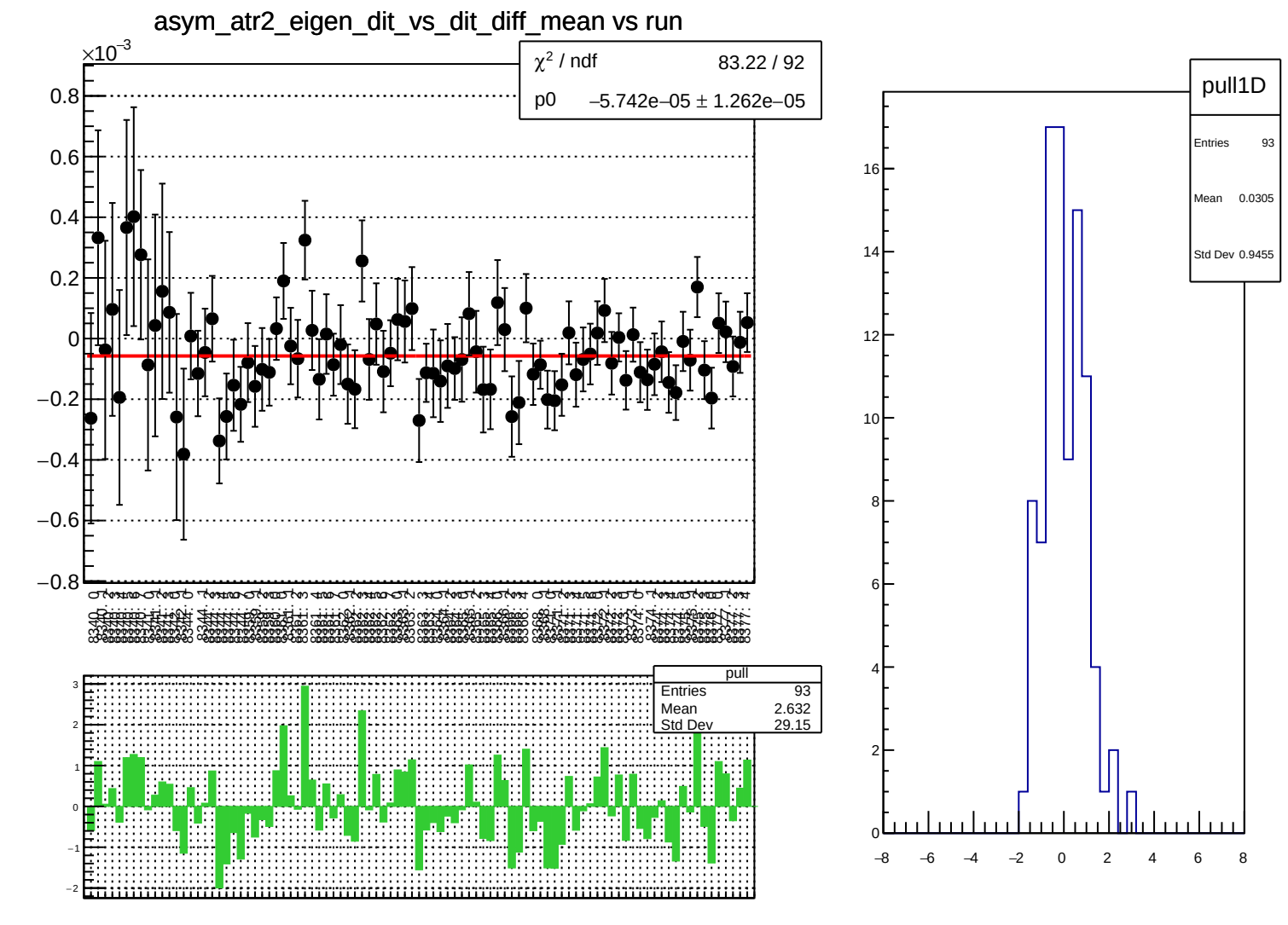

pull1D
Entries 93
Mean −0.00439
Std Dev 0.9249

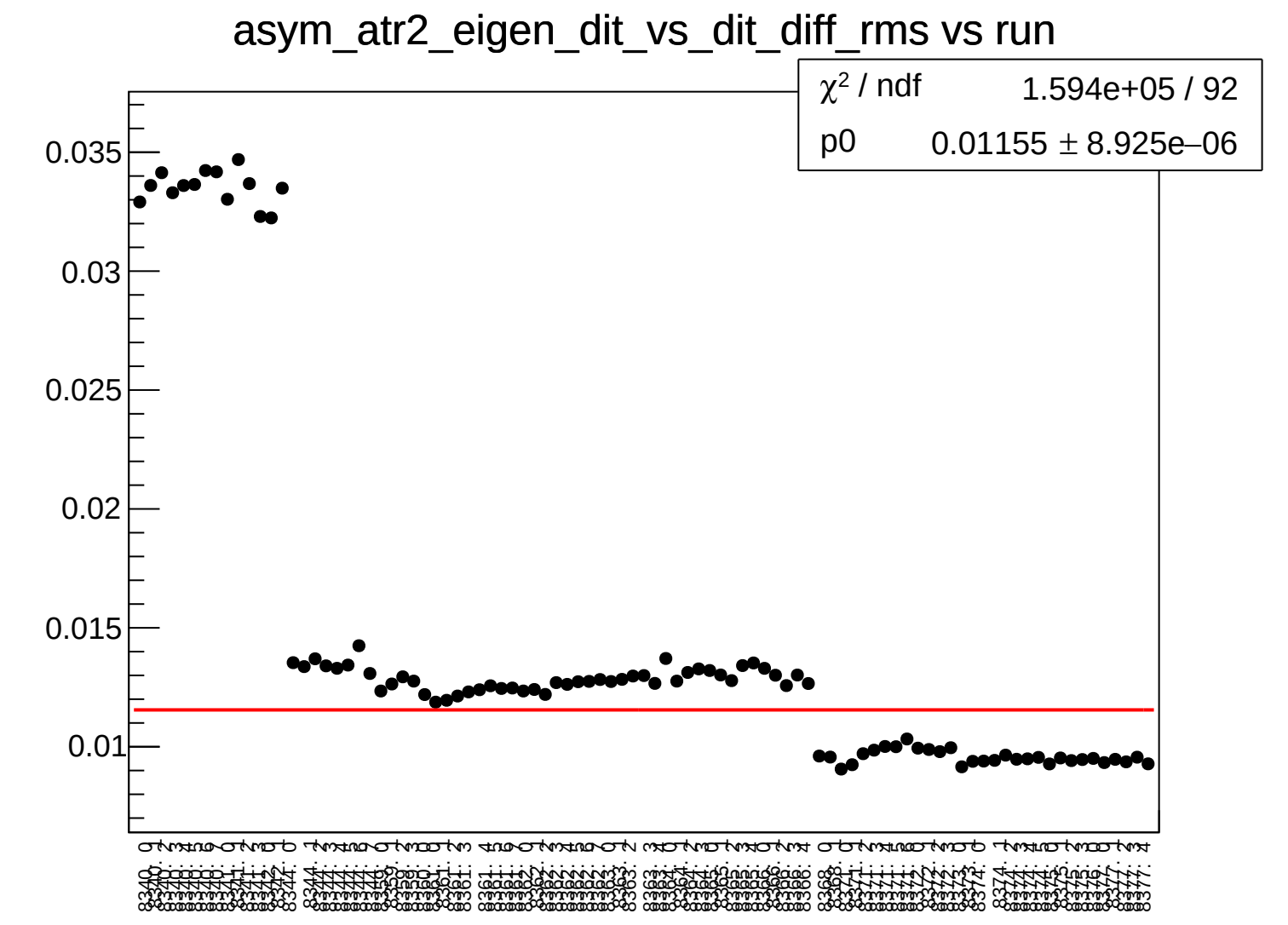

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 92
p0 291.2 ± 0.2169
400
350
300
250
200

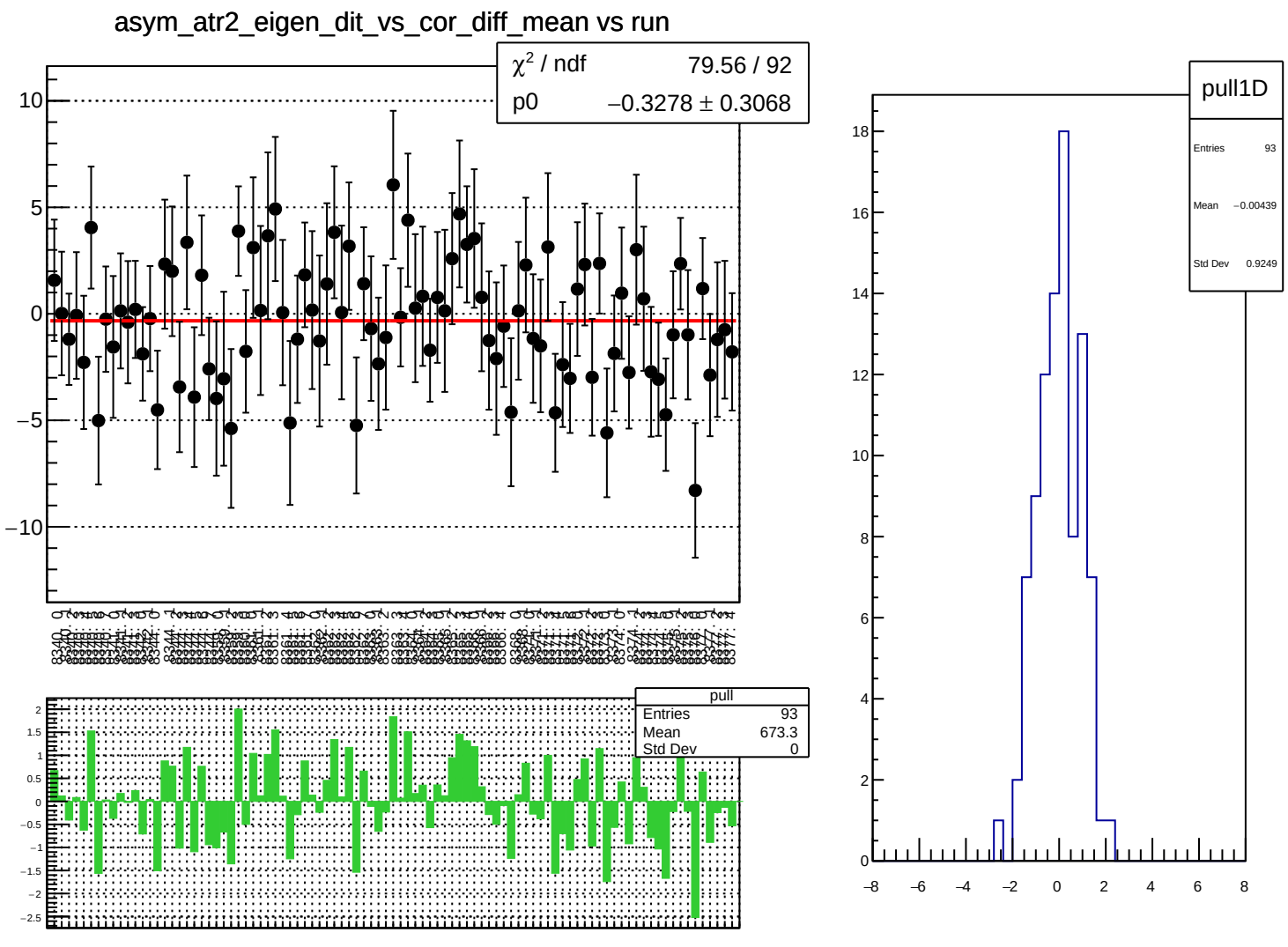

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.56 / 92
p0 −0.3278 ± 0.3068
pull
Entries 93
Mean 673.2
Std Dev 0

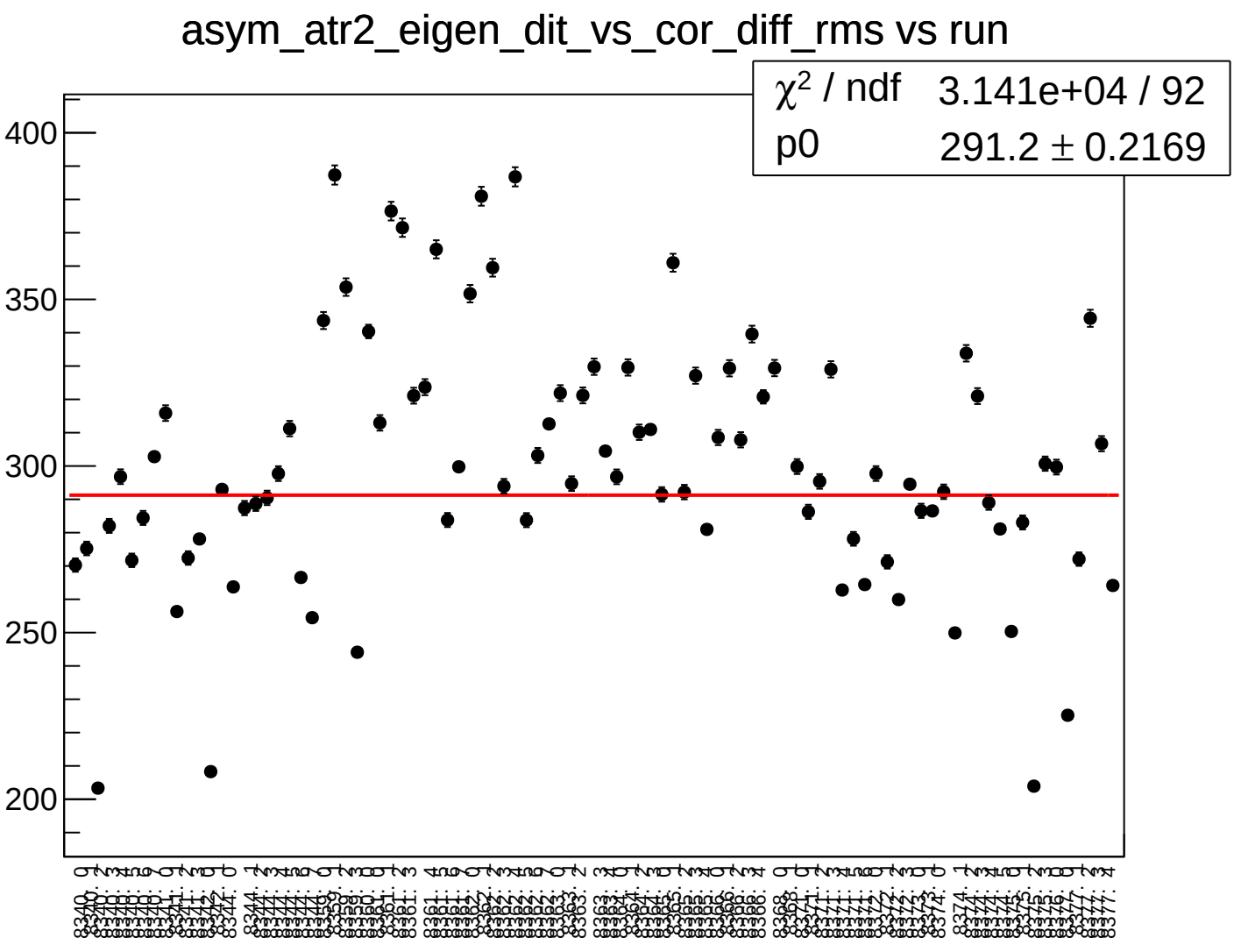

pull1D
Entries 93
Mean −0.00439
Std Dev 0.9249

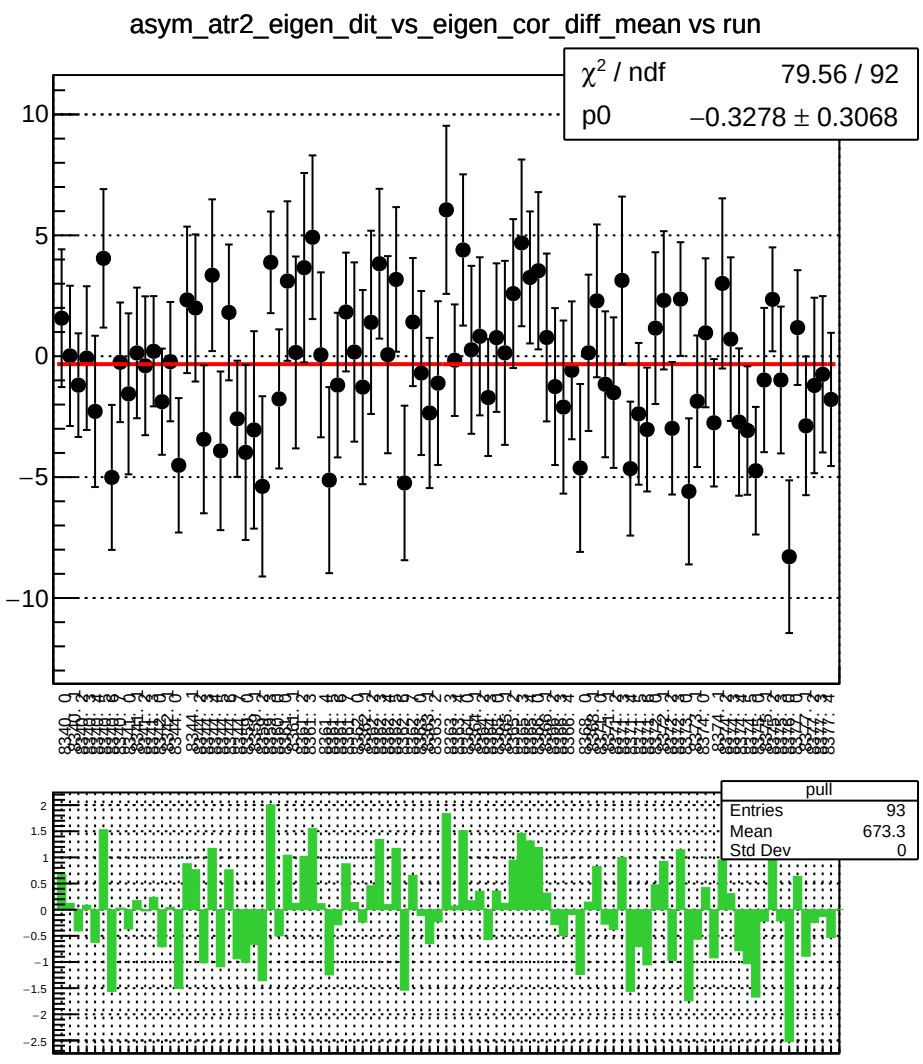

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 92
p0 291.2 ± 0.2169
400
350
300
250
200

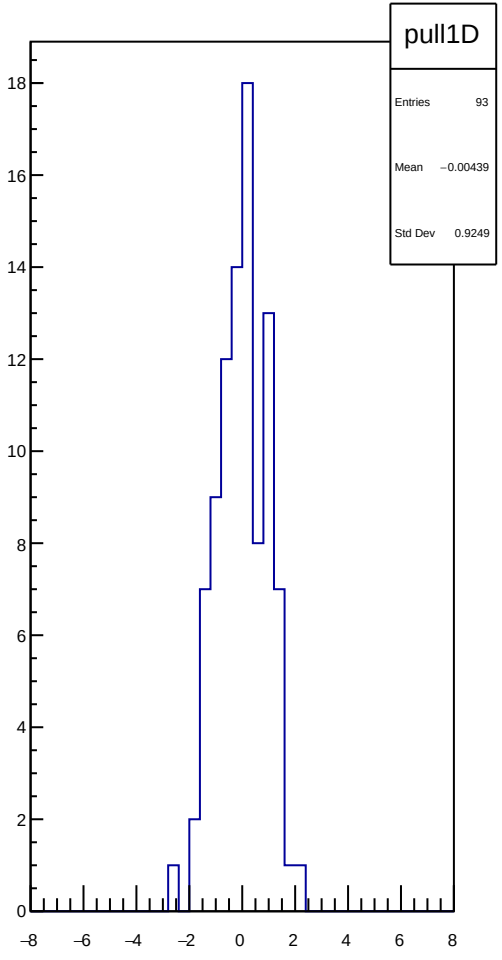

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.22 / 92
p0 −5.742e−05 ± 1.262e−05
pull
Entries 93
Mean 2.632
Std Dev 29.15
pull1D
Entries 93
Mean 0.0305
Std Dev 0.9455

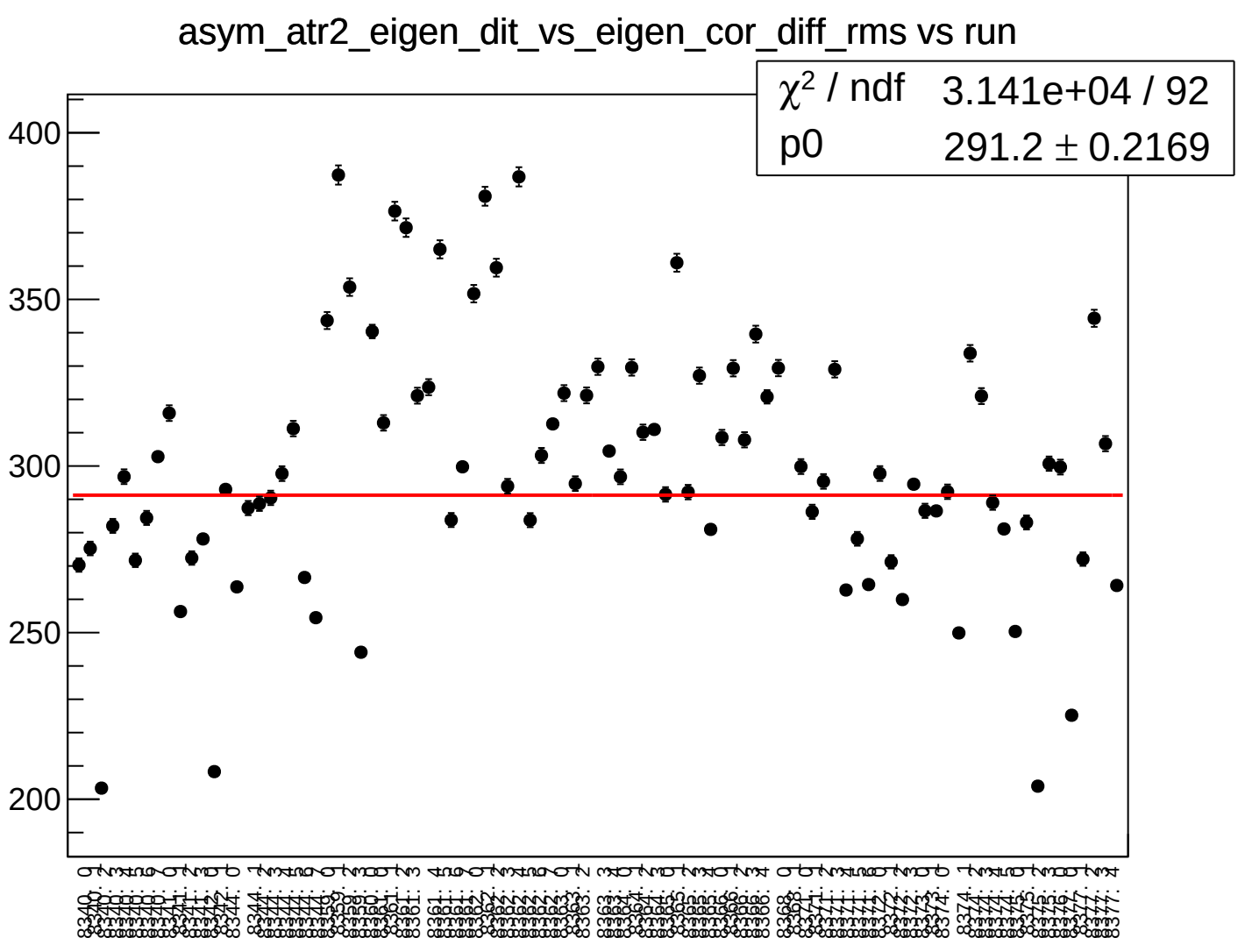

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.594e+05 / 92
p0 0.01155 ± 8.925e–06
0.035
0.03
0.025
0.02
0.015
0.01

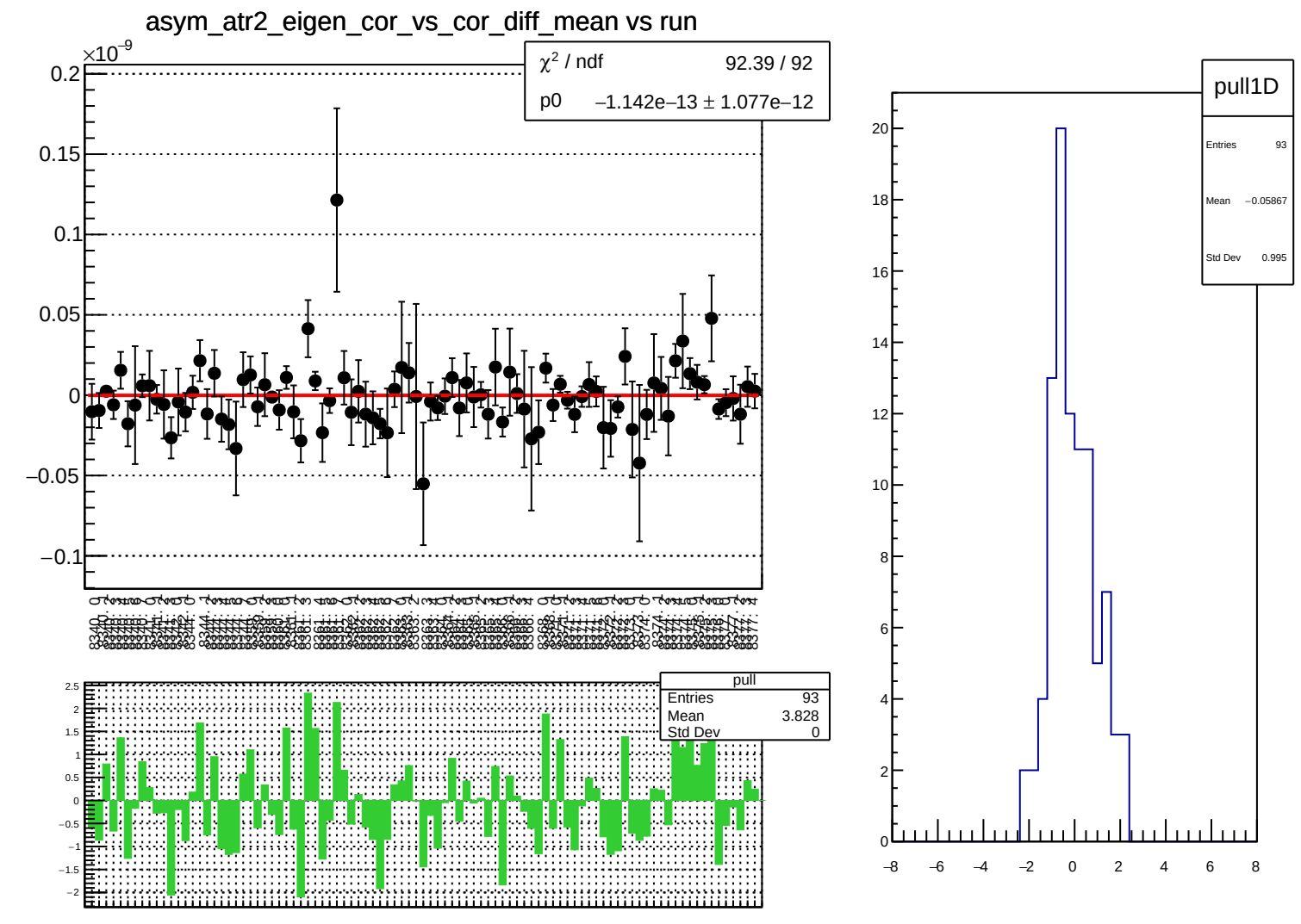

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 92
p0 −0.3278 ± 0.3068
pull
Entries 93
Mean 673.3
Std Dev 0
pull1D
Entries 93
Mean −0.00439
Std Dev 0.9249

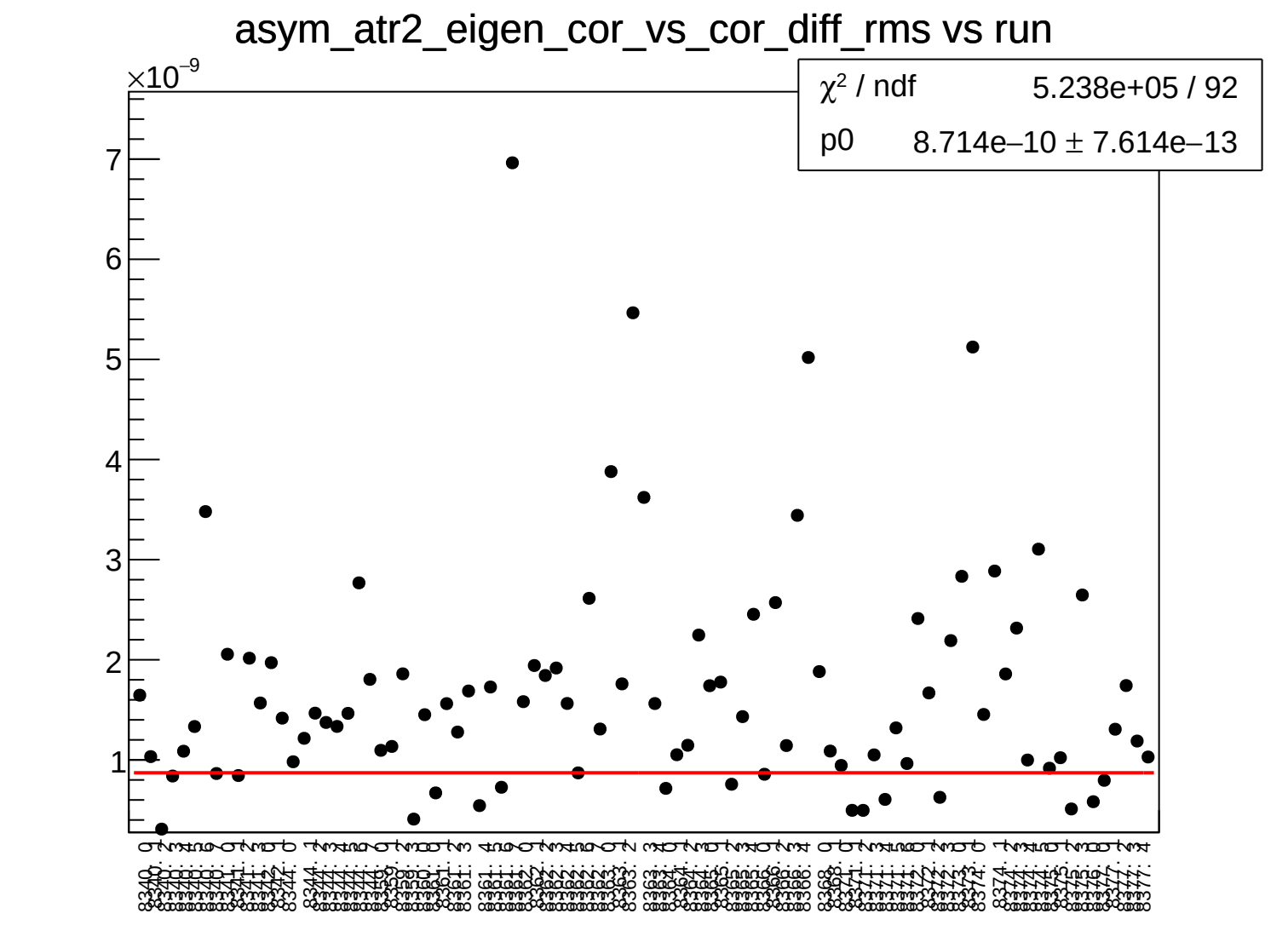

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 92
p0 291.2 ± 0.2169
400
350
300
250
200

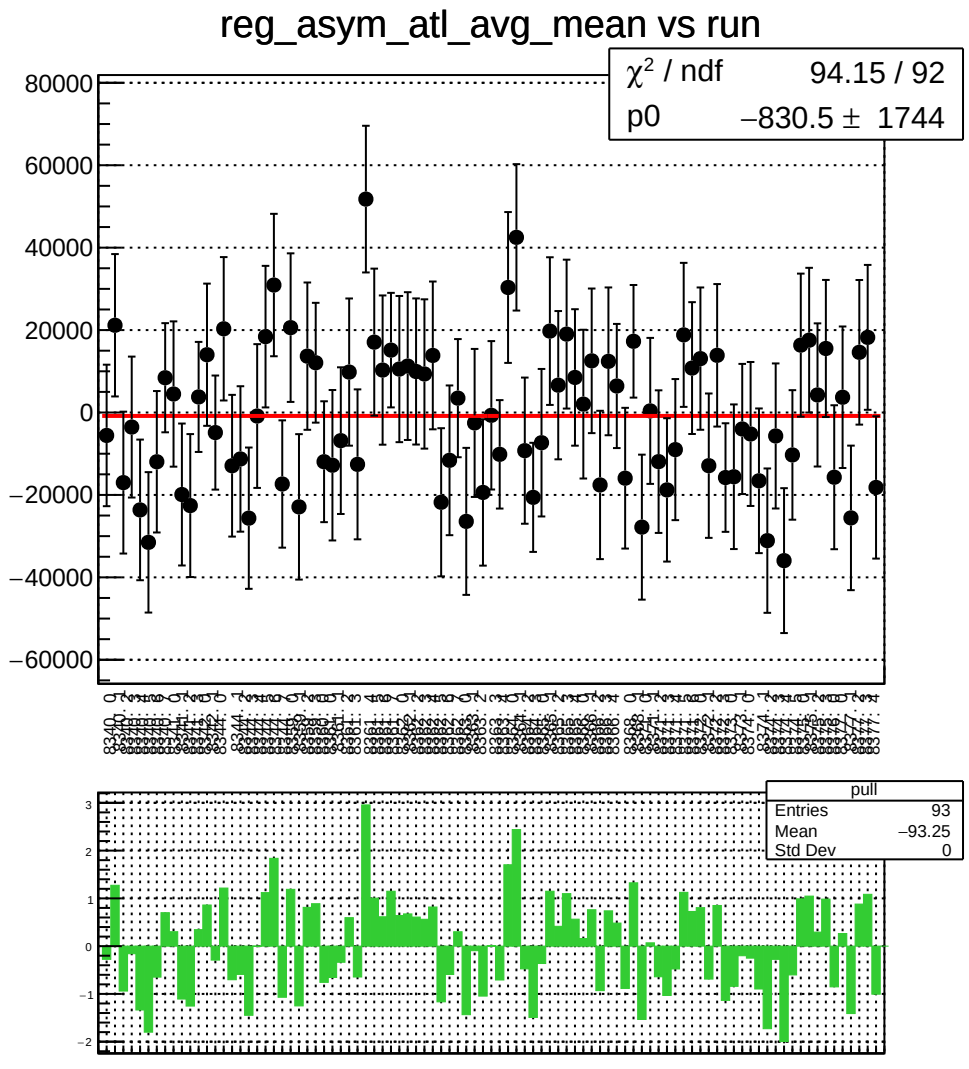

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.56 / 92
p0 −0.3278 ± 0.3068
pull
Entries 93
Mean 673.3
Std Dev 0

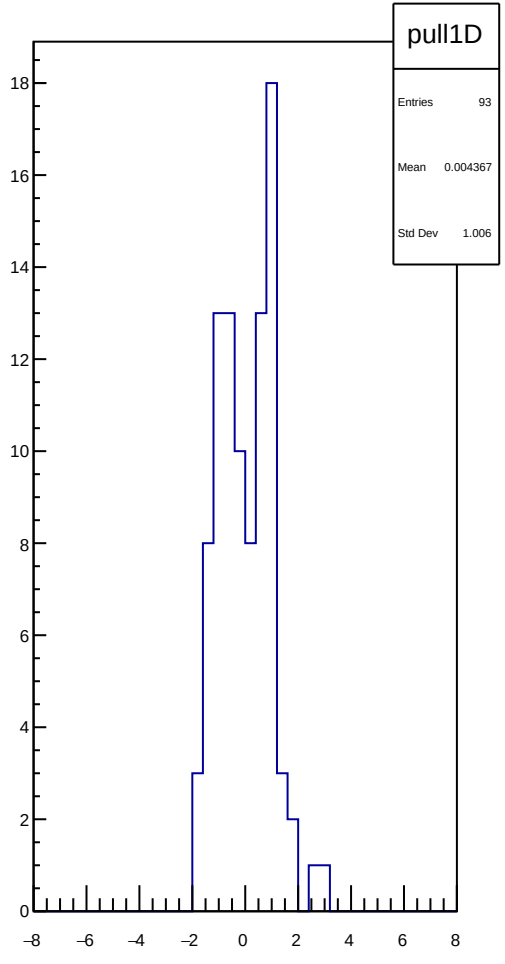

pull1D
Entries 93
Mean −0.00439
Std Dev 0.9249

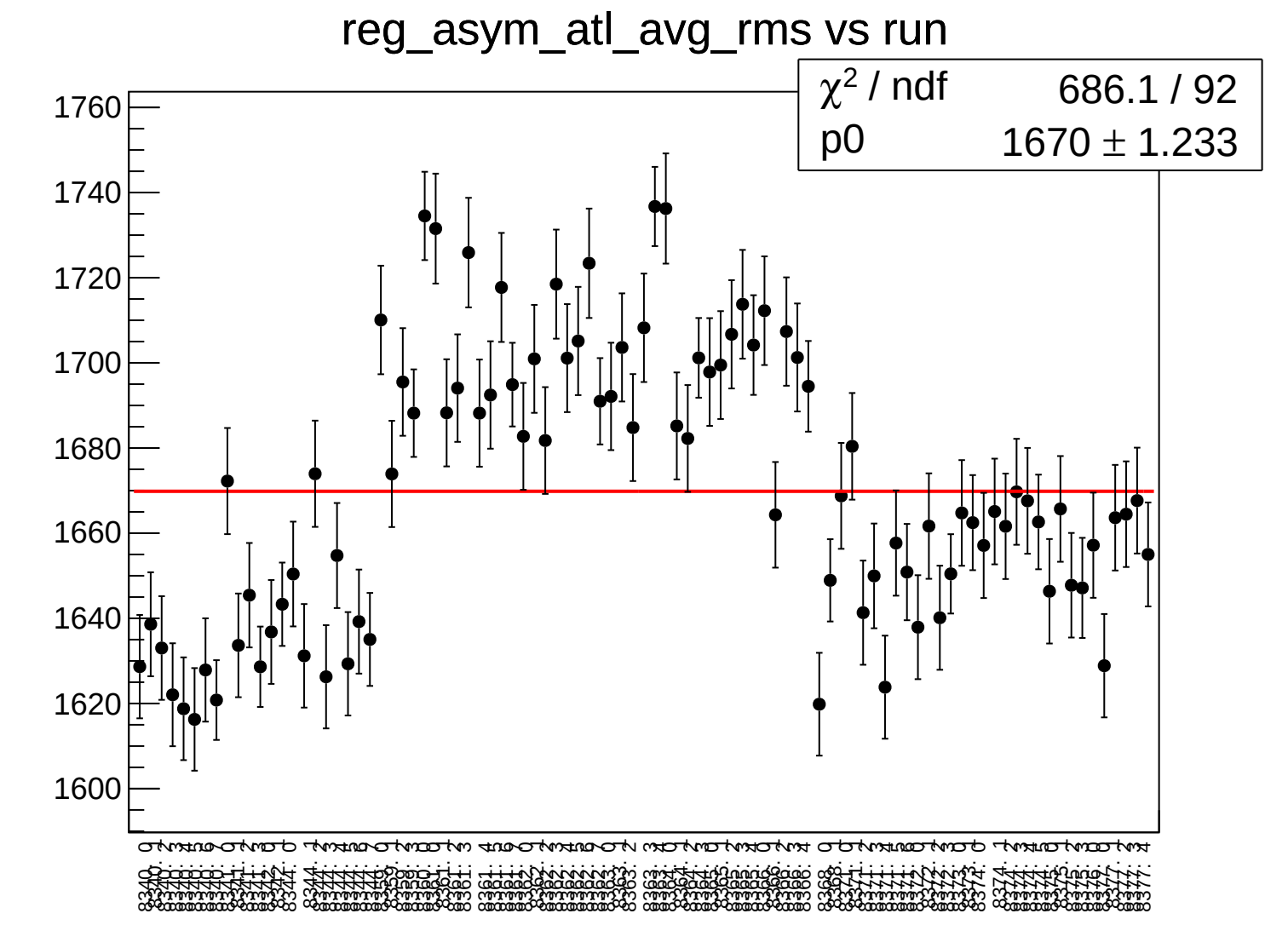

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.141e+04 / 92
p0 291.2 ± 0.2169
400
350
300
250
200

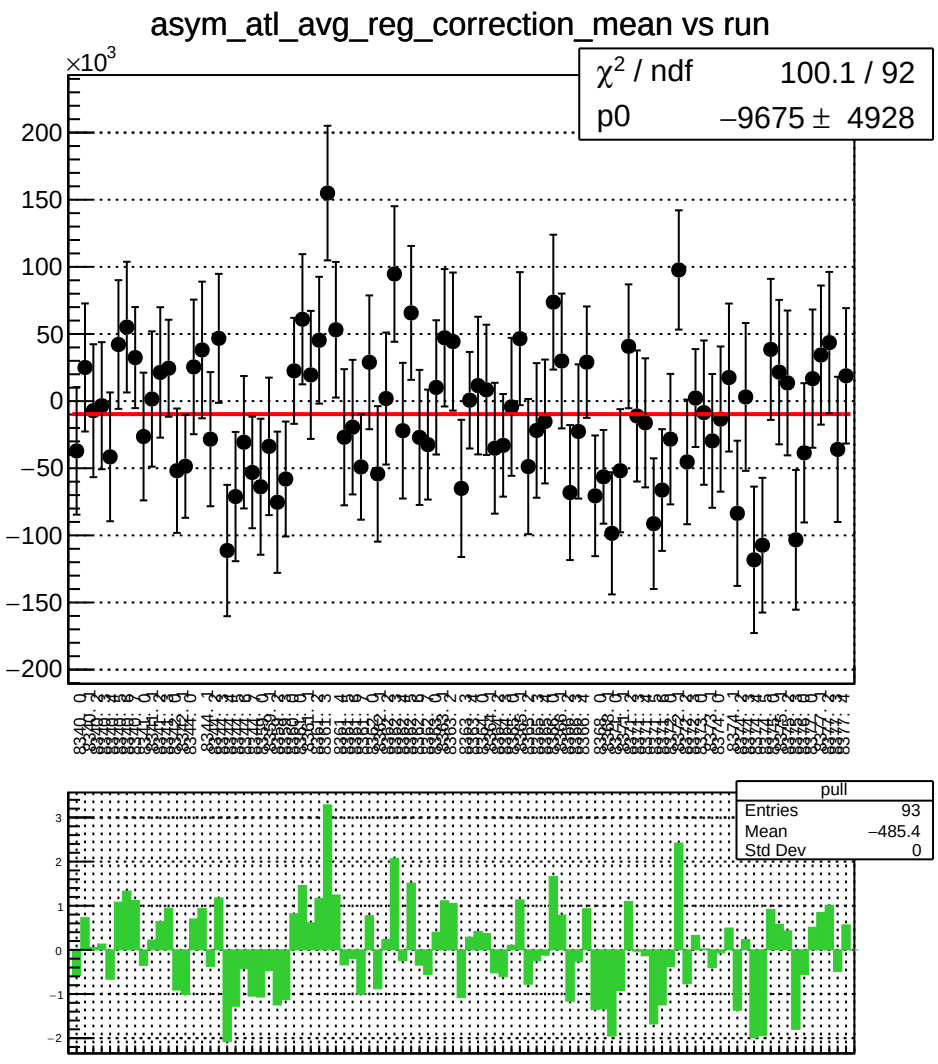

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 92.39 / 92
p0 −1.142e−13 ± 1.077e−12
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 3.828
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.05867
Std Dev 0.995
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

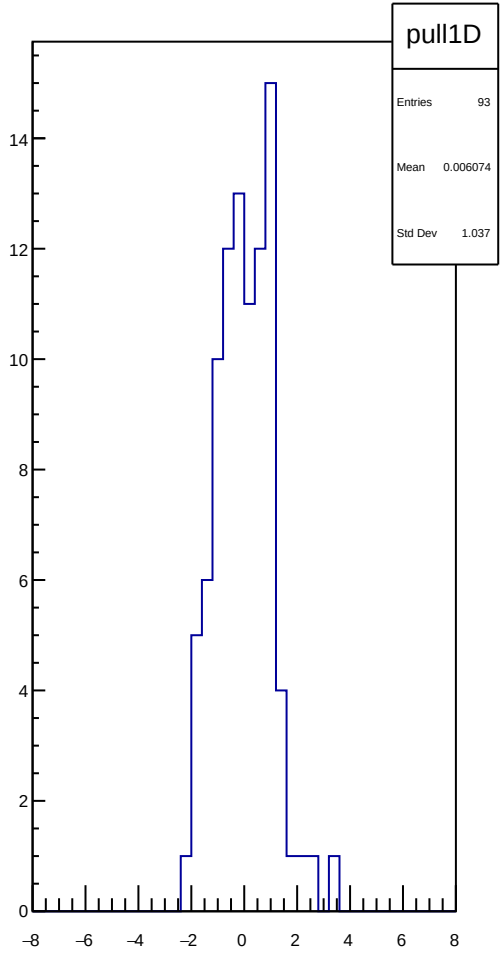

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.238e+05 / 92
p0 8.714e−10 ± 7.614e−13
7
6
5
4
3
2
1

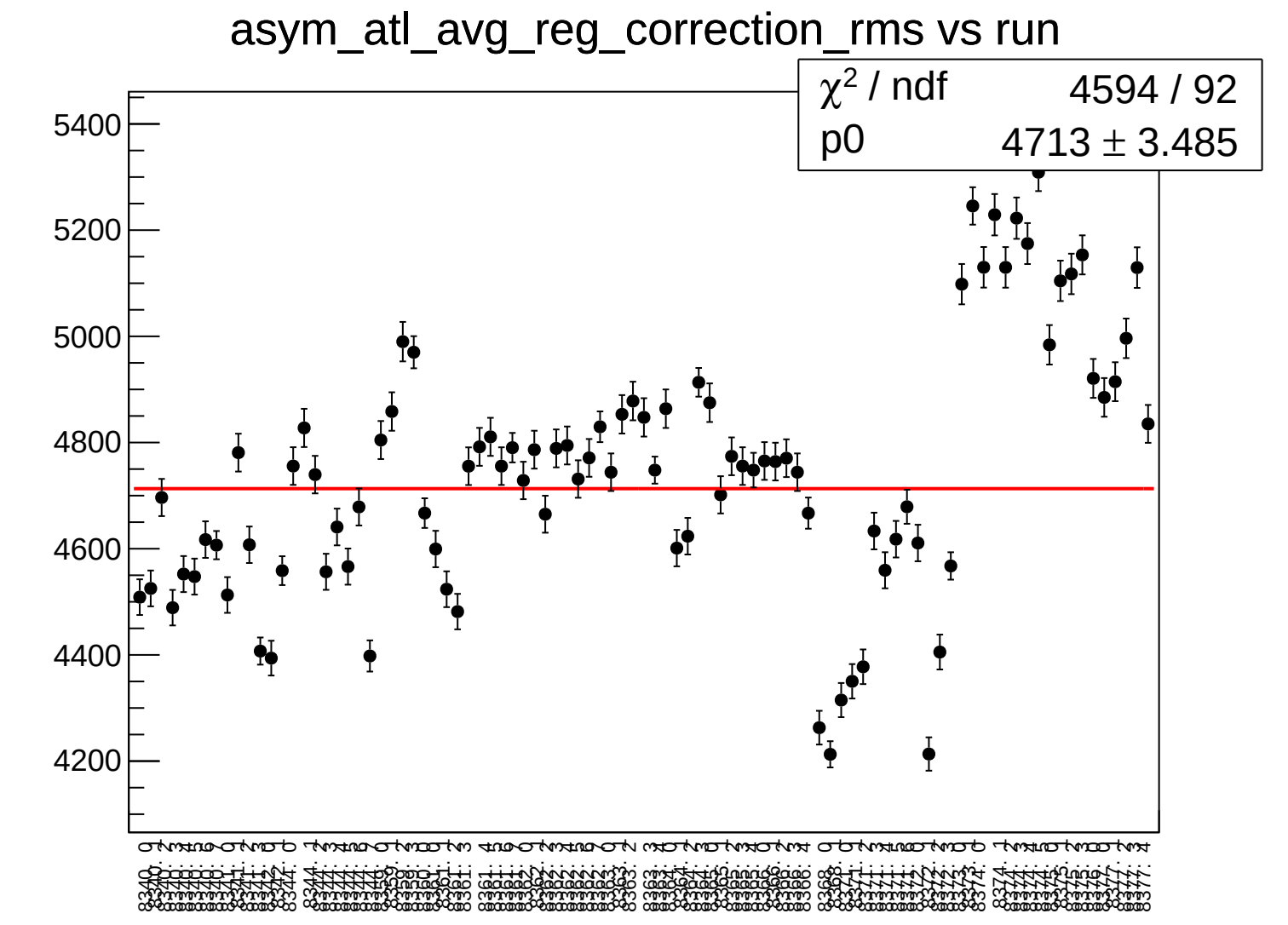

reg_asym_atl_avg_mean vs run
χ² / ndf 94.15 / 92
p0 −830.5 ± 1744
pull
Entries 93
Mean −93.25
Std Dev 0

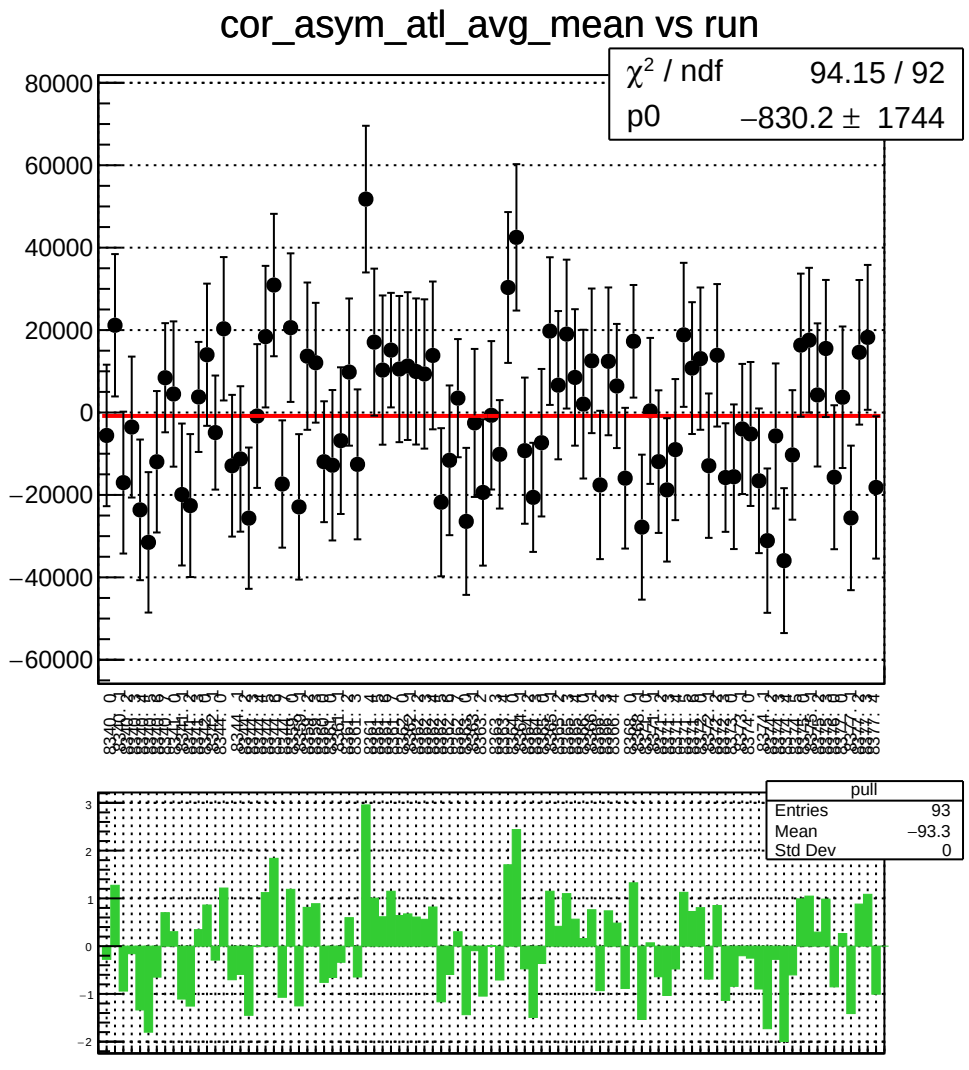

pull1D
Entries 93
Mean 0.004367
Std Dev 1.006

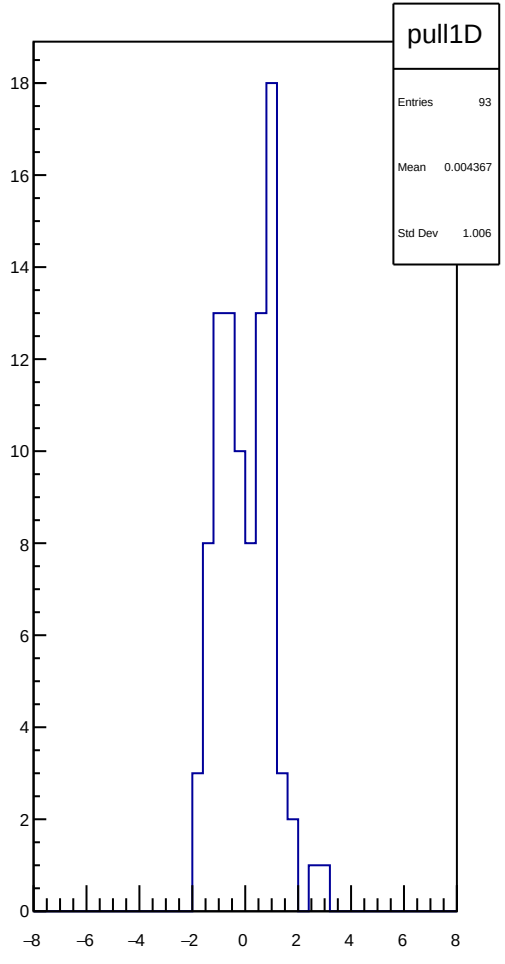

reg_asym_atl_avg_rms vs run
χ² / ndf 686.1 / 92
p0 1670 ± 1.233
1760
1740
1720
1700
1680
1660
1640
1620
1600

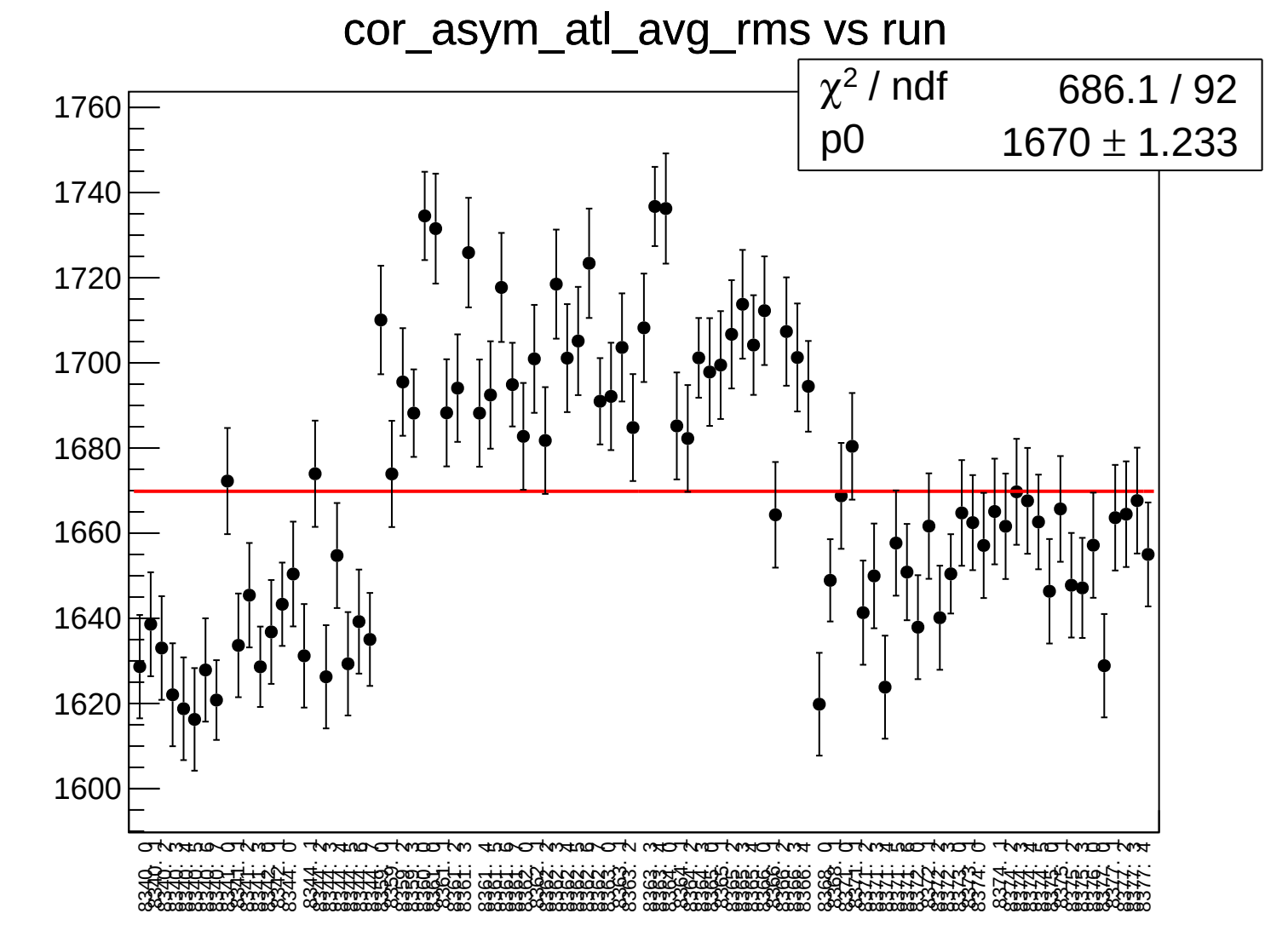

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 −9675 ± 4928
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −485.4
Std Dev 0
3
2
1
0
−1
−2

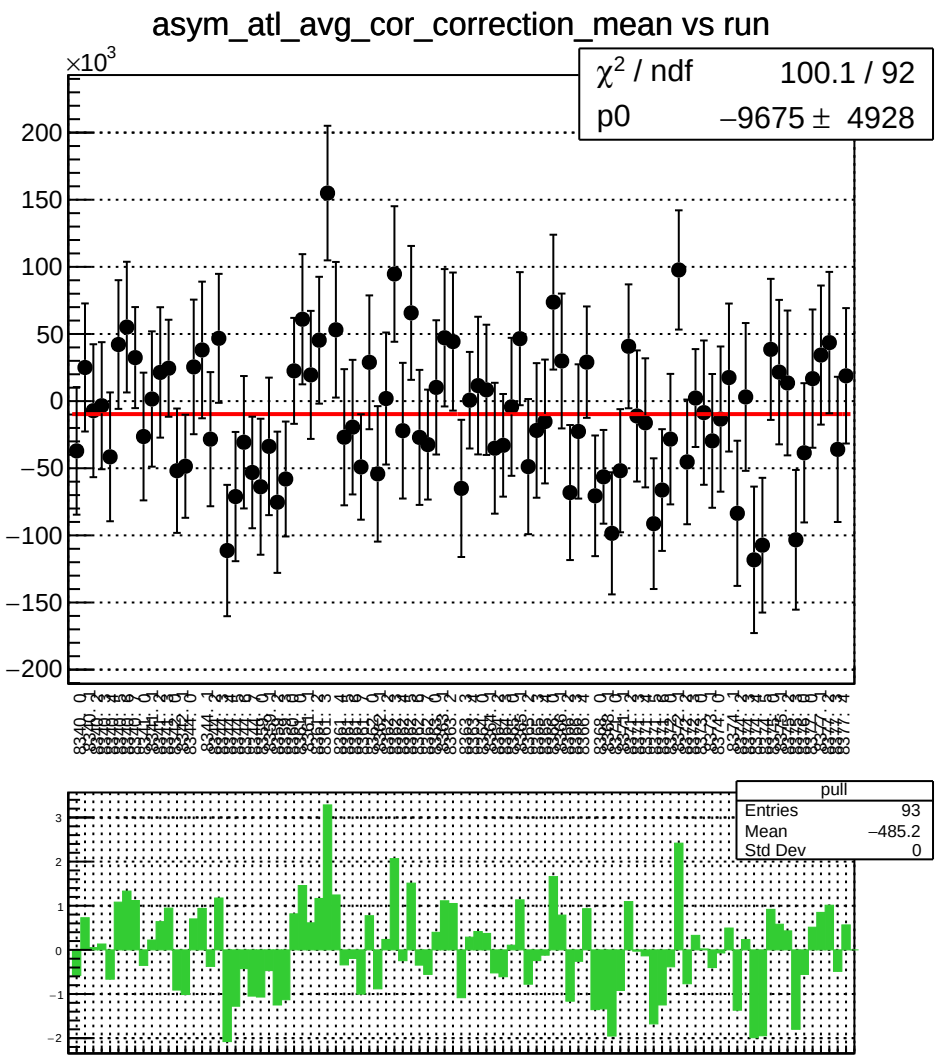

pull1D
Entries 93
Mean 0.006074
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

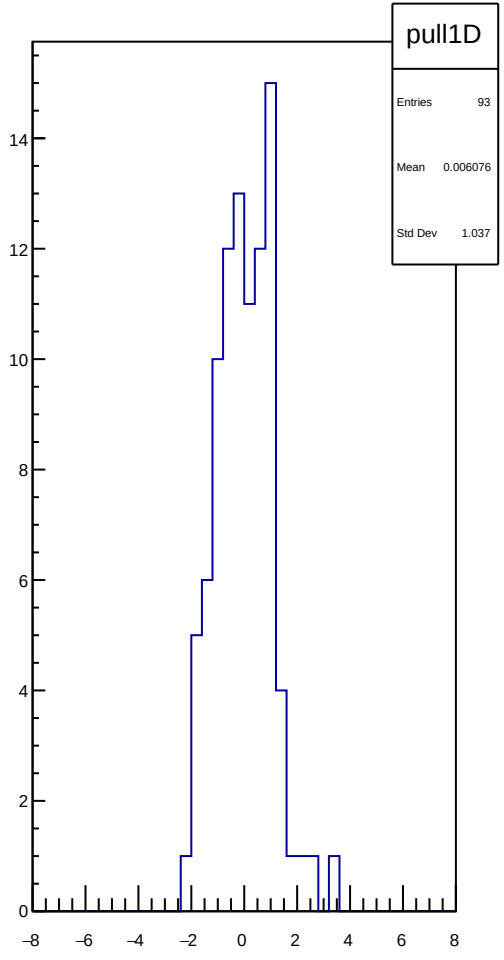

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4594 / 92
p0 4713 ± 3.485
5400
5200
5000
4800
4600
4400
4200

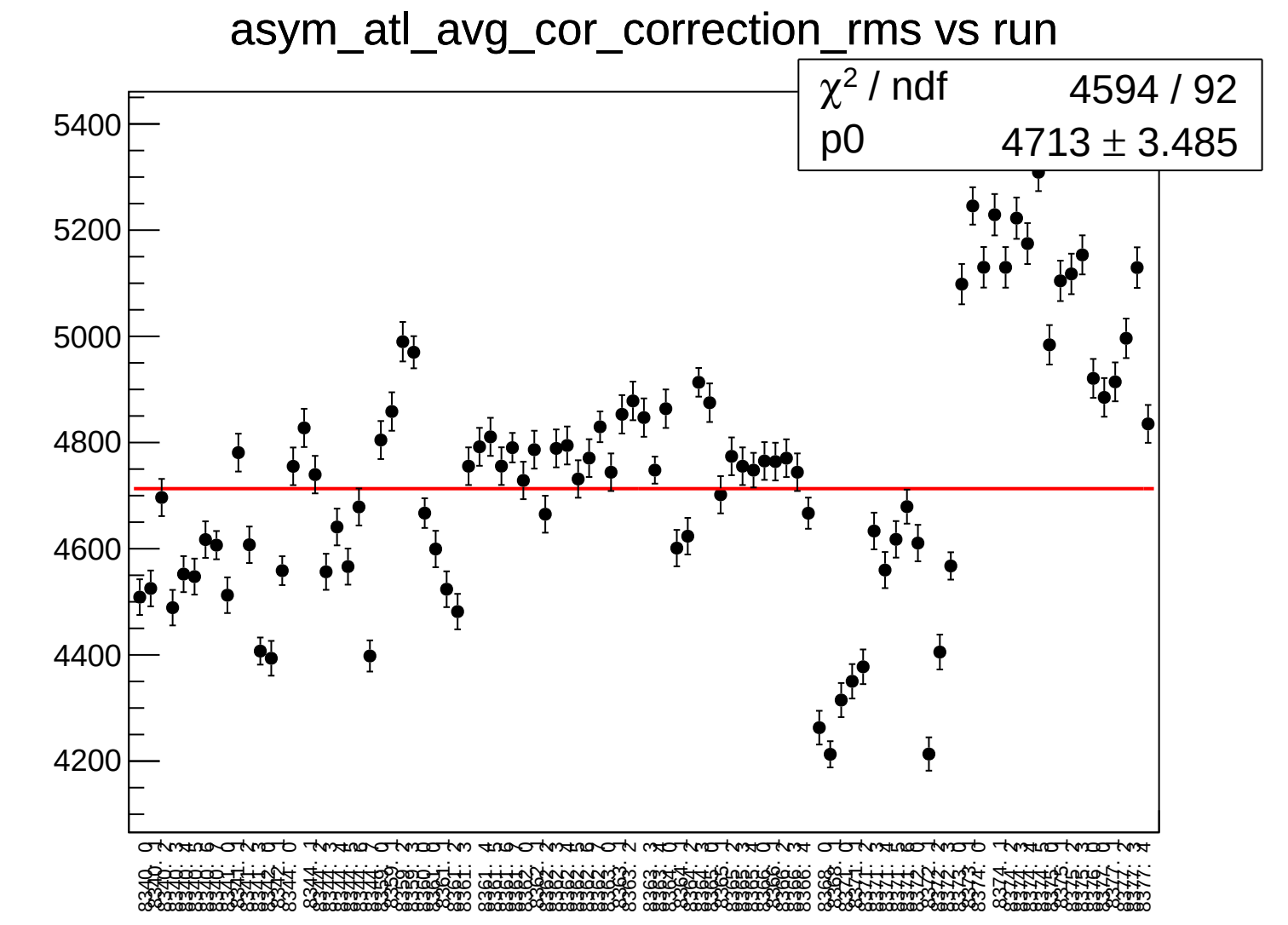

cor_asym_atl_avg_mean vs run
χ² / ndf 94.15 / 92
p0 −830.2 ± 1744
pull
Entries 93
Mean −93.3
Std Dev 0

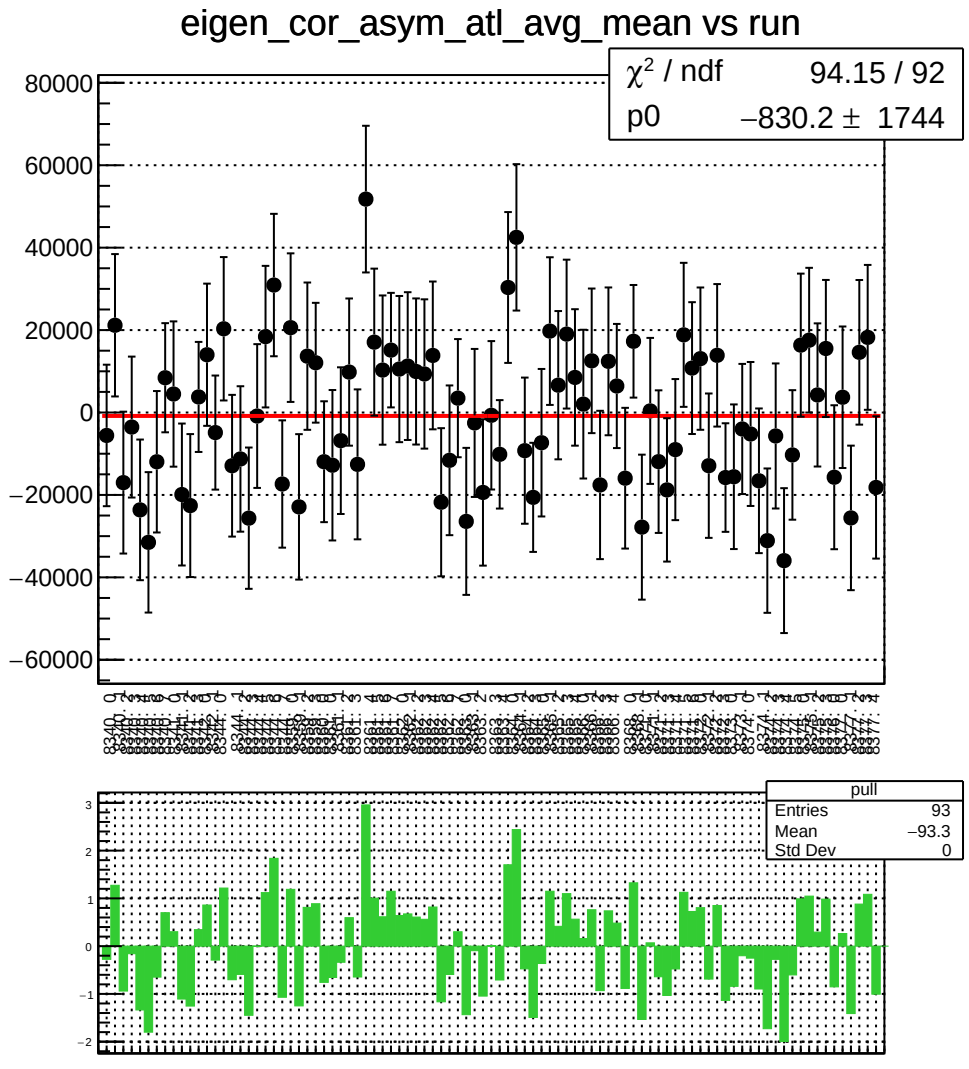

pull1D
Entries 93
Mean 0.004367
Std Dev 1.006

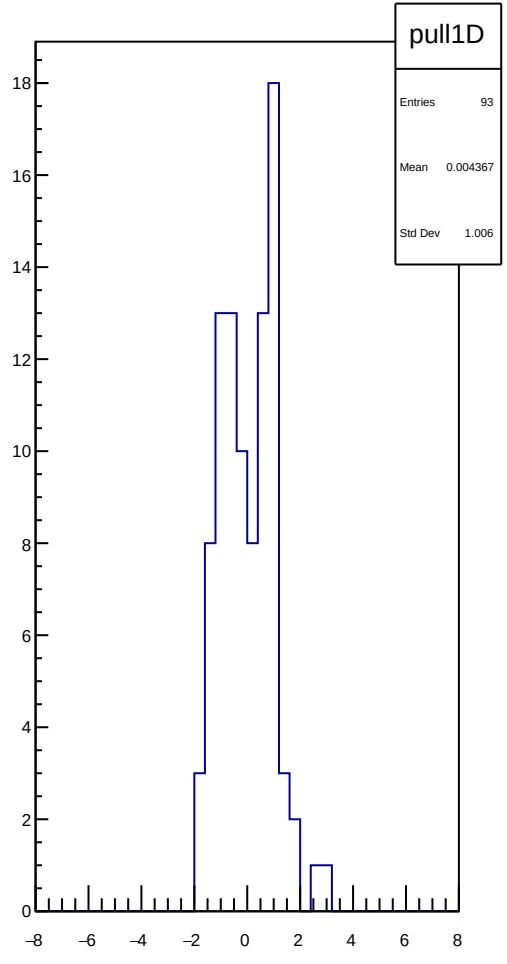

cor_asym_atl_avg_rms vs run
χ^2 / ndf 686.1 / 92
p0 1670 ± 1.233
1760
1740
1720
1700
1680
1660
1640
1620
1600

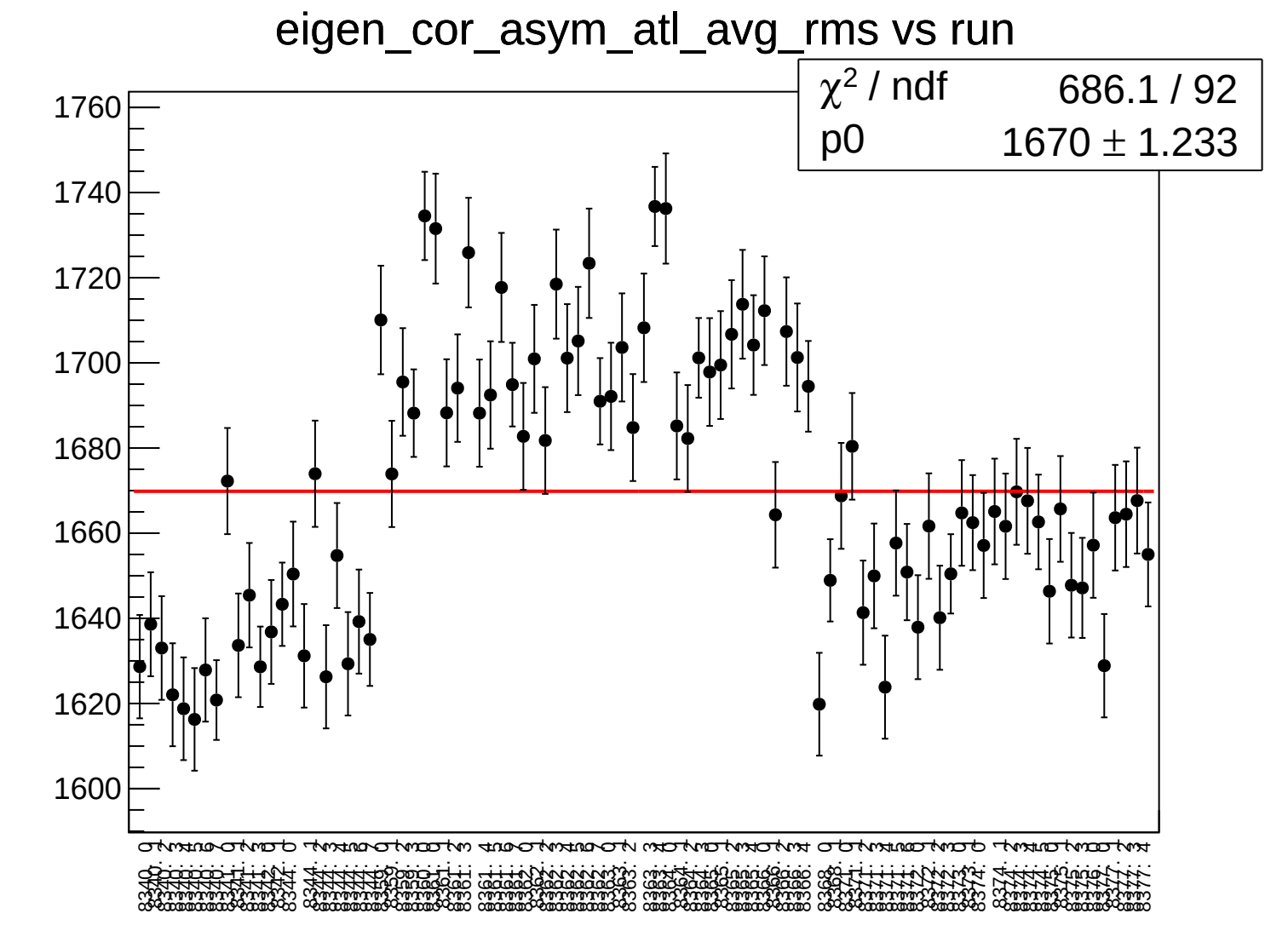

asym_atl_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.1 / 92
p0 −9675 ± 4928
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −485.2
Std Dev 0
3
2
1
0
−1
−2

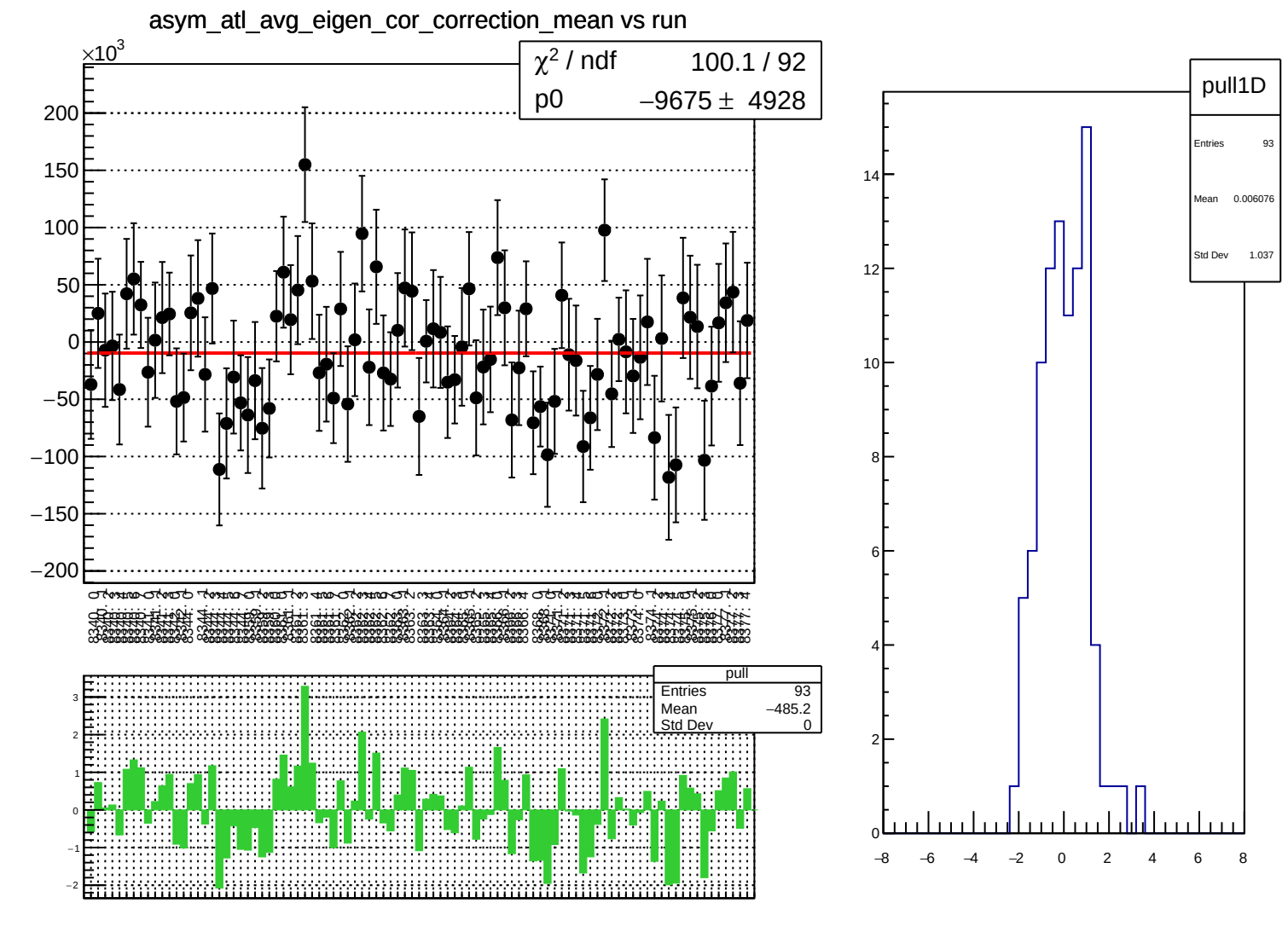

pull1D
Entries 93
Mean 0.006076
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

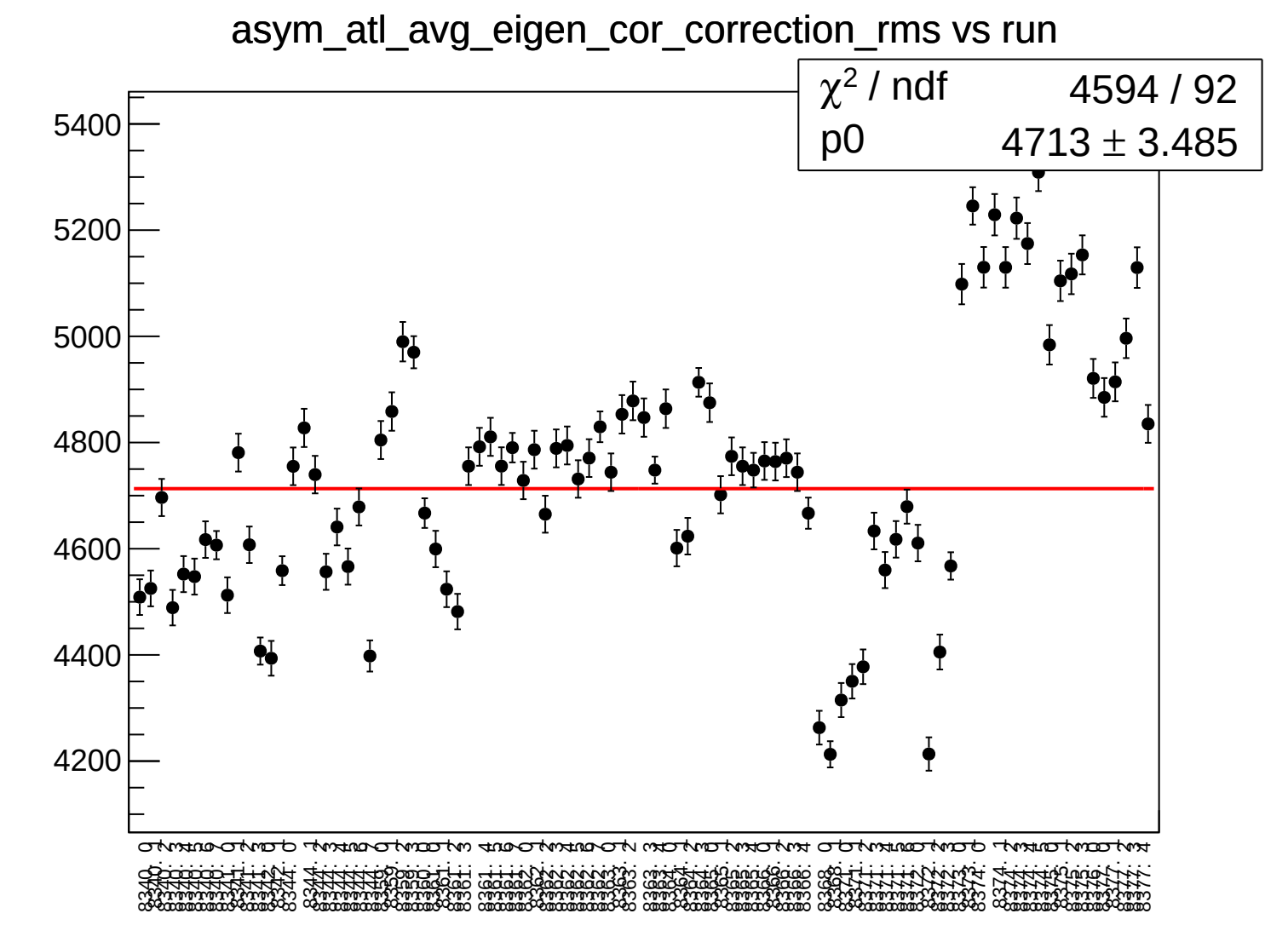

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4594 / 92
p0 4713 ± 3.485
5400
5200
5000
4800
4600
4400
4200

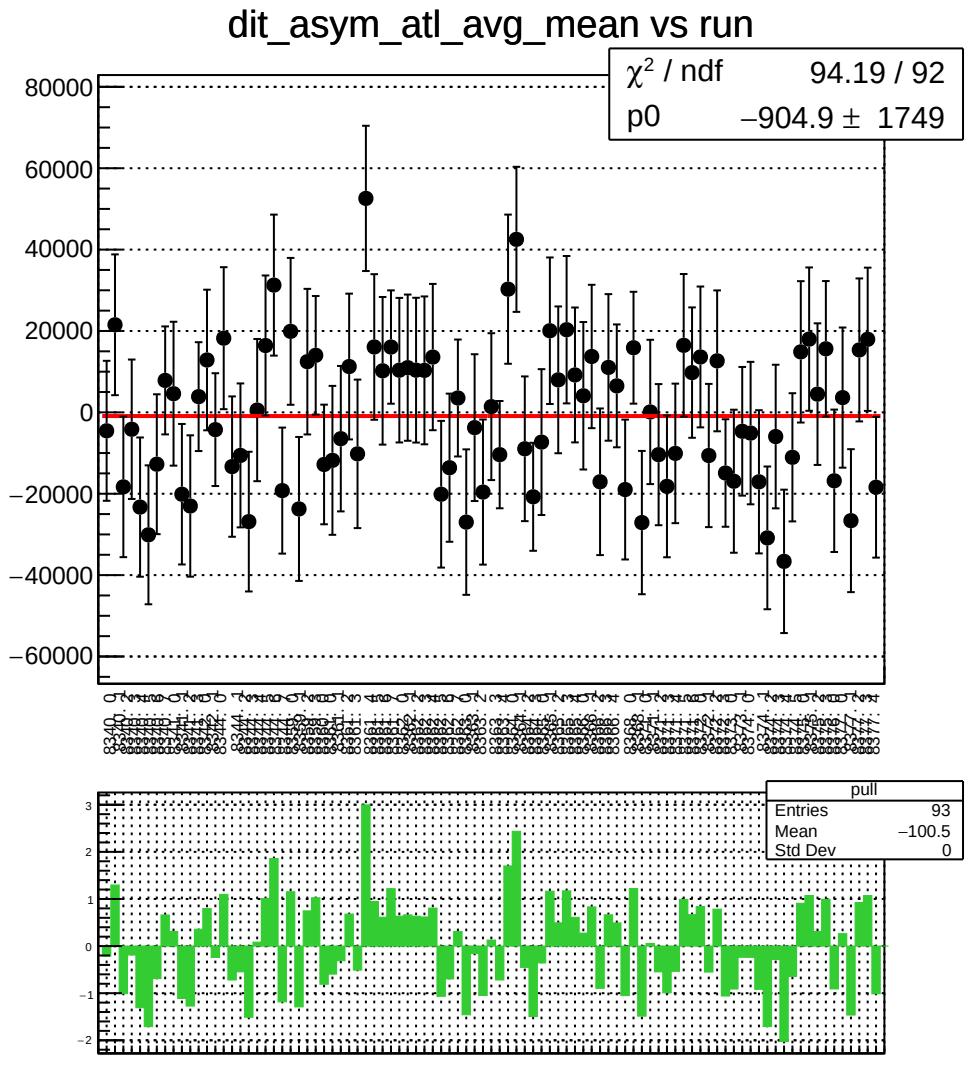

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 94.15 / 92
p0 −830.2 ± 1744
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −93.3
Std Dev 0
3
2
1
0
−1
−2

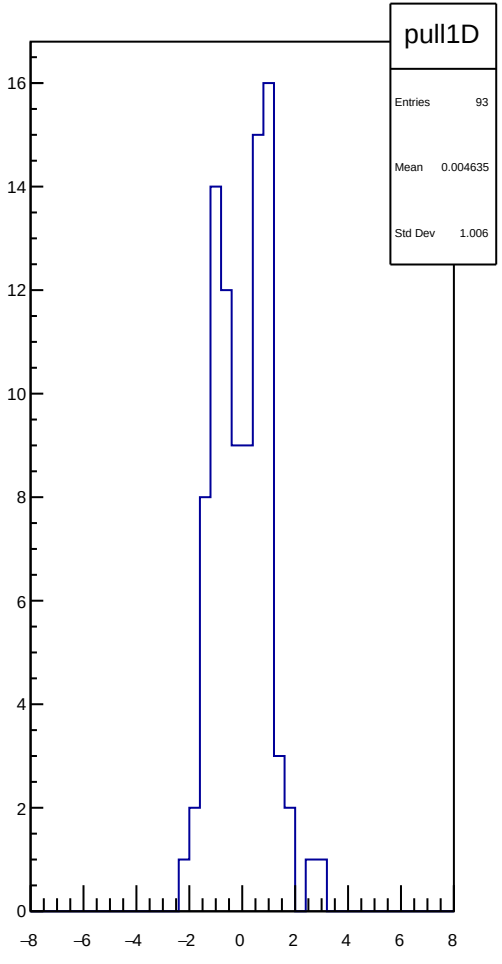

pull1D
Entries 93
Mean 0.004367
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

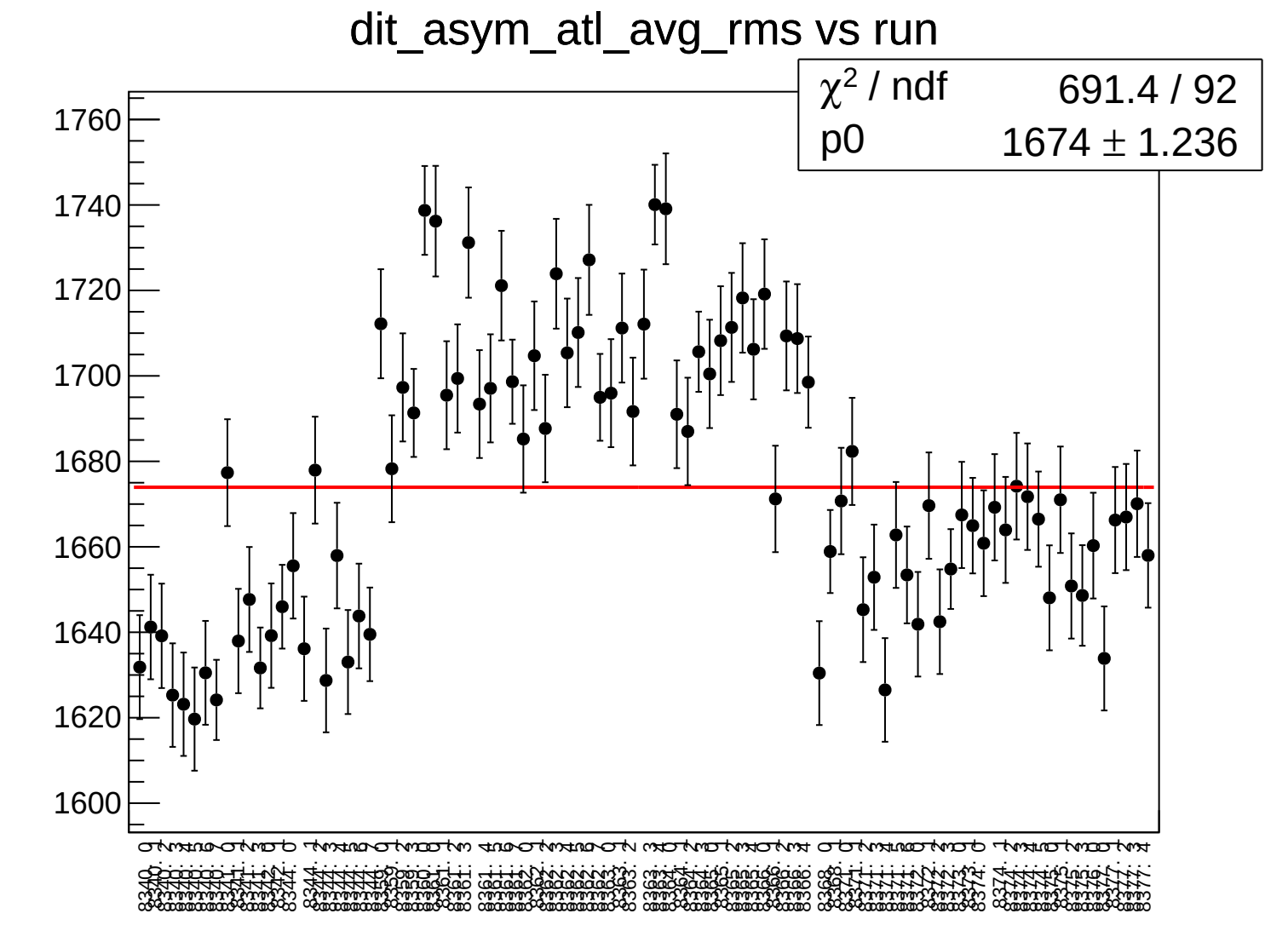

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 686.1 / 92
p0 1670 ± 1.233
1760
1740
1720
1700
1680
1660
1640
1620
1600

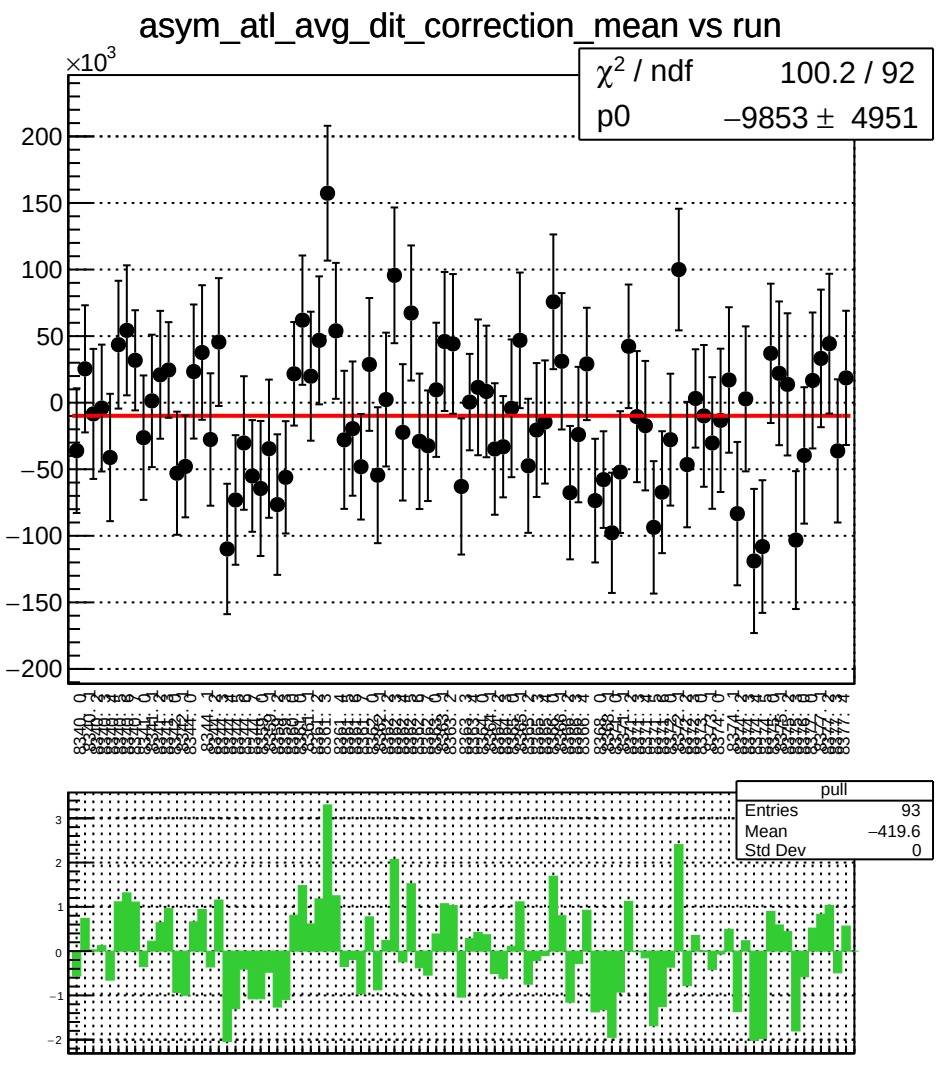

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.1 / 92
p0 −9675 ± 4928
pull
Entries 93
Mean −485.2
Std Dev 0
pull1D
Entries 93
Mean 0.006076
Std Dev 1.037

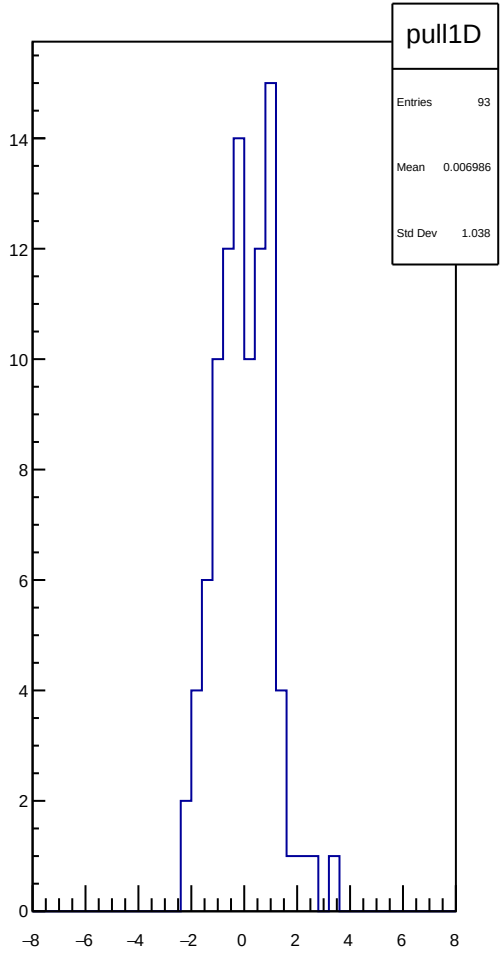

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4594 / 92
p0 4713 ± 3.485
5400
5200
5000
4800
4600
4400
4200

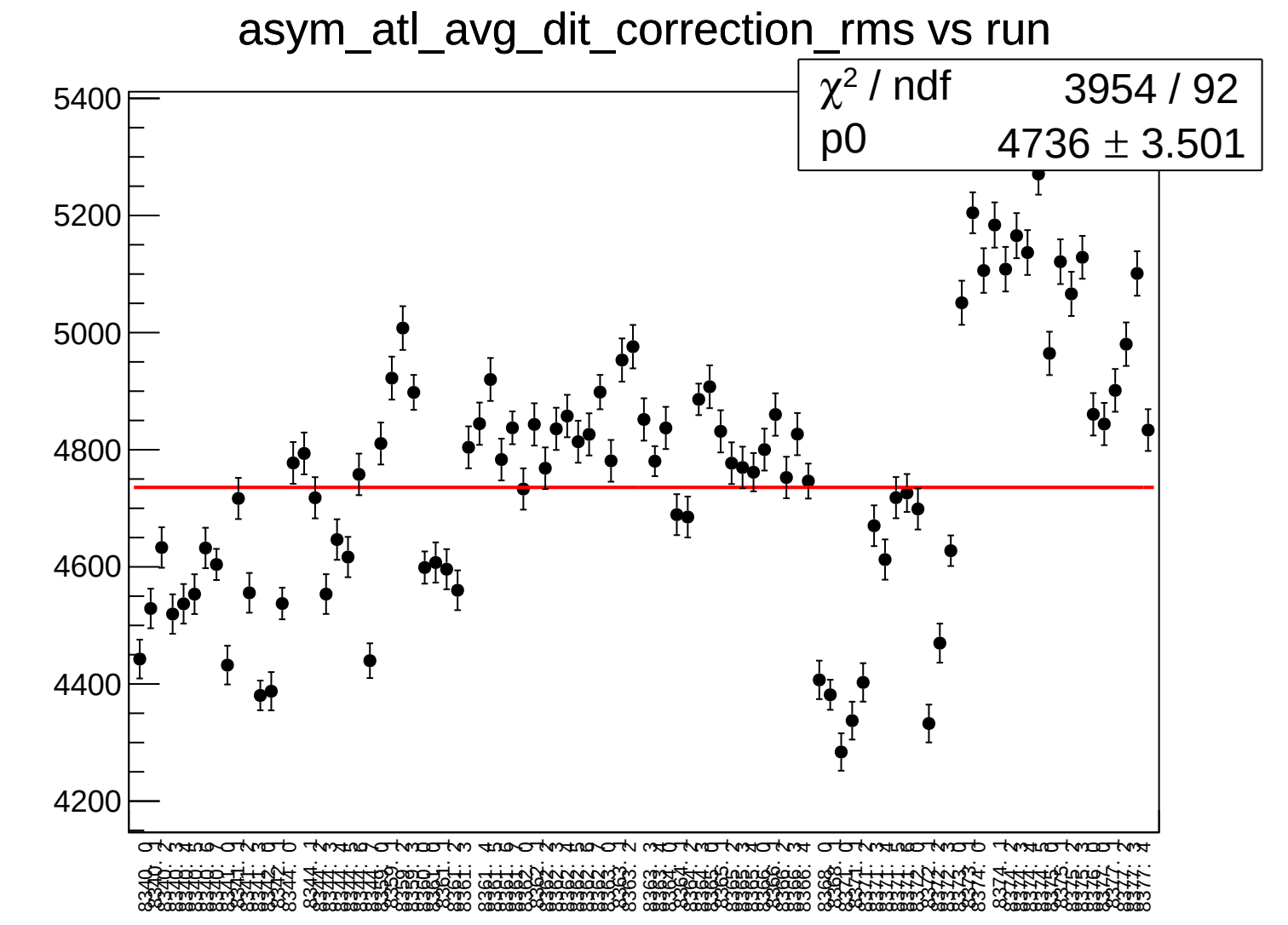

dit_asym_atl_avg_mean vs run
χ² / ndf 94.19 / 92
p0 −904.9 ± 1749
pull
Entries 93
Mean −100.5
Std Dev 0

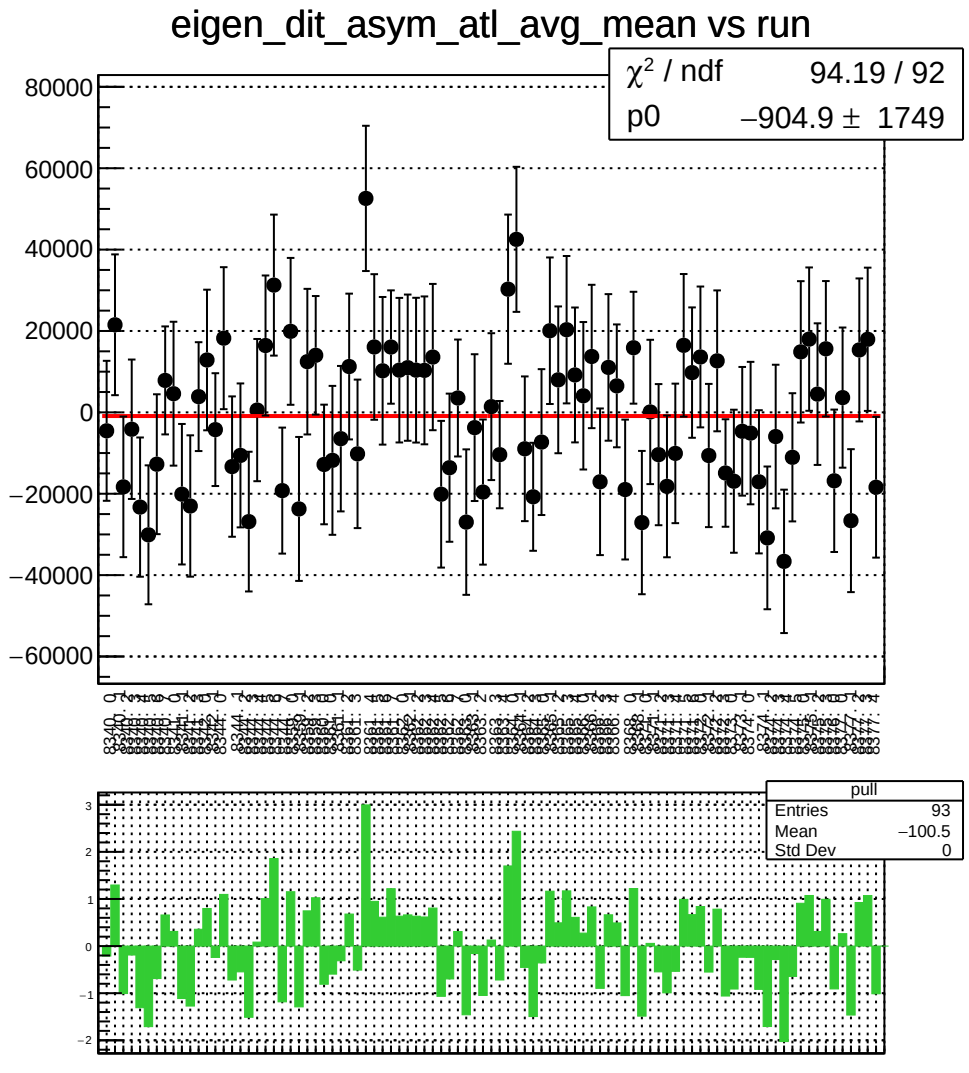

pull1D
Entries 93
Mean 0.004635
Std Dev 1.006

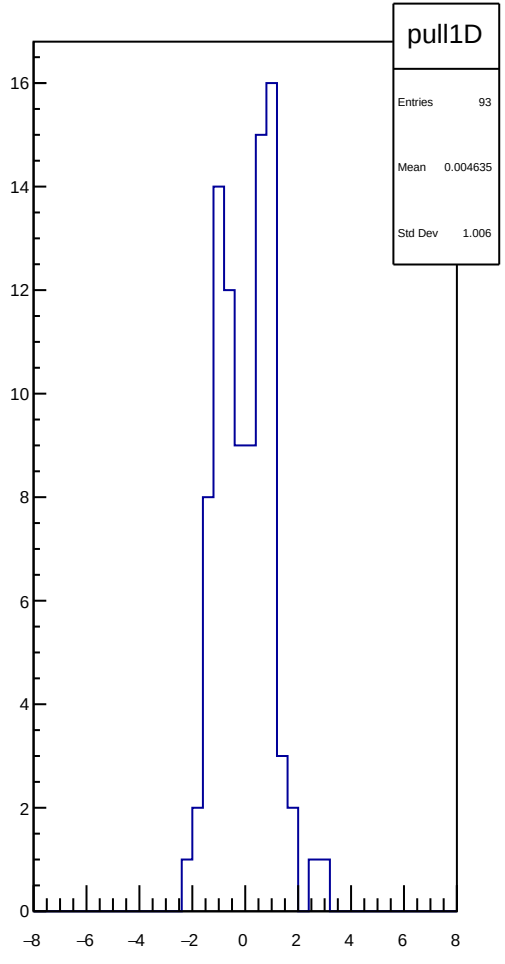

dit_asym_atl_avg_rms vs run
χ² / ndf 691.4 / 92
p0 1674 ± 1.236
1760
1740
1720
1700
1680
1660
1640
1620
1600

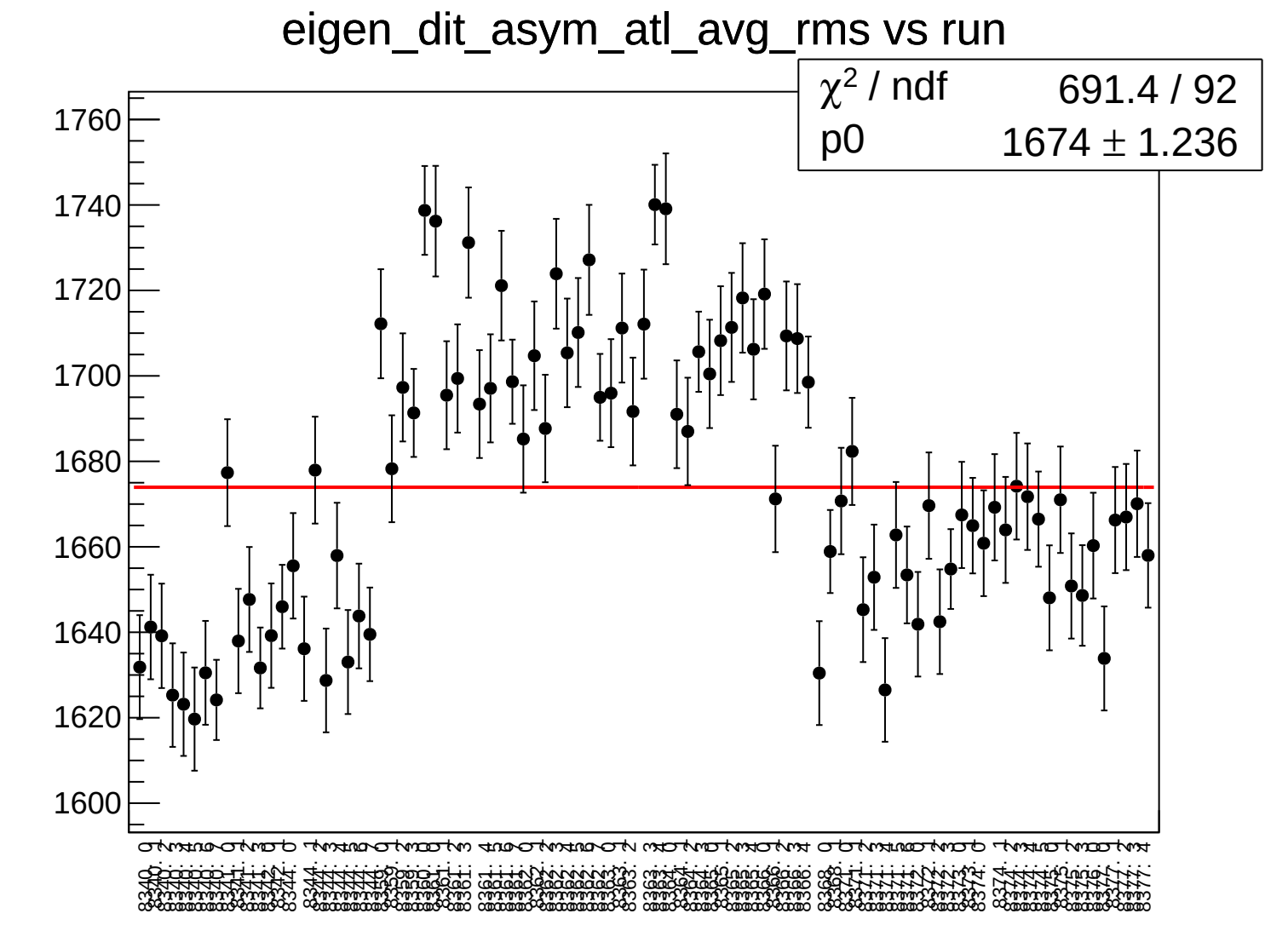

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.2 / 92
p0 −9853 ± 4951
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −419.6
Std Dev 0
3
2
1
0
−1
−2

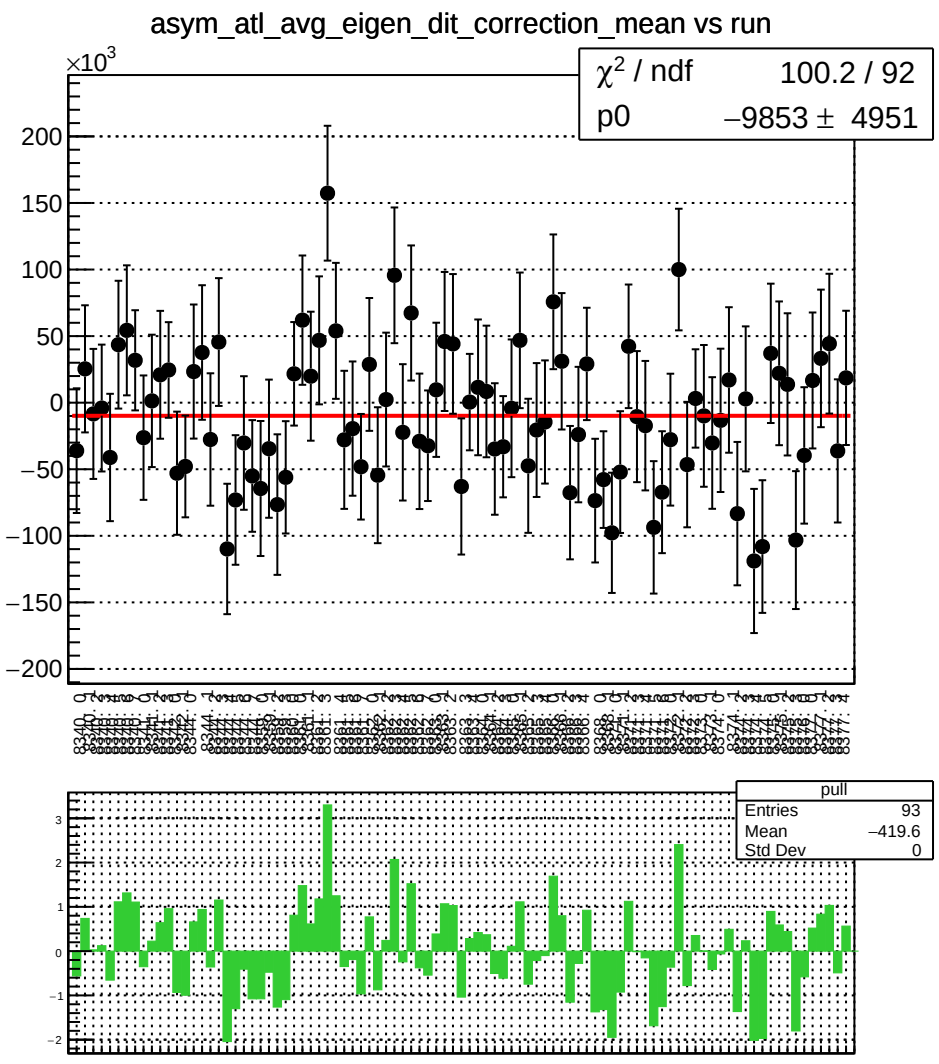

pull1D
Entries 93
Mean 0.006986
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

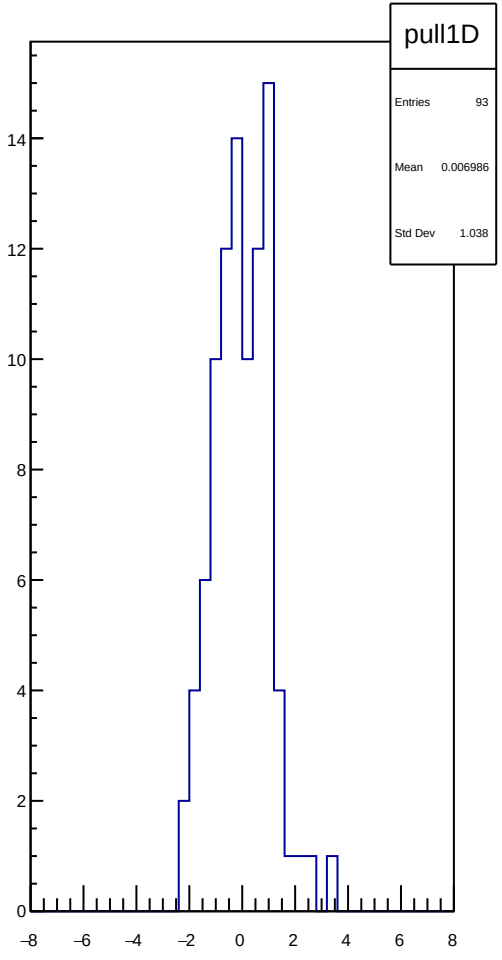

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3954 / 92
p0 4736 ± 3.501
5400
5200
5000
4800
4600
4400
4200

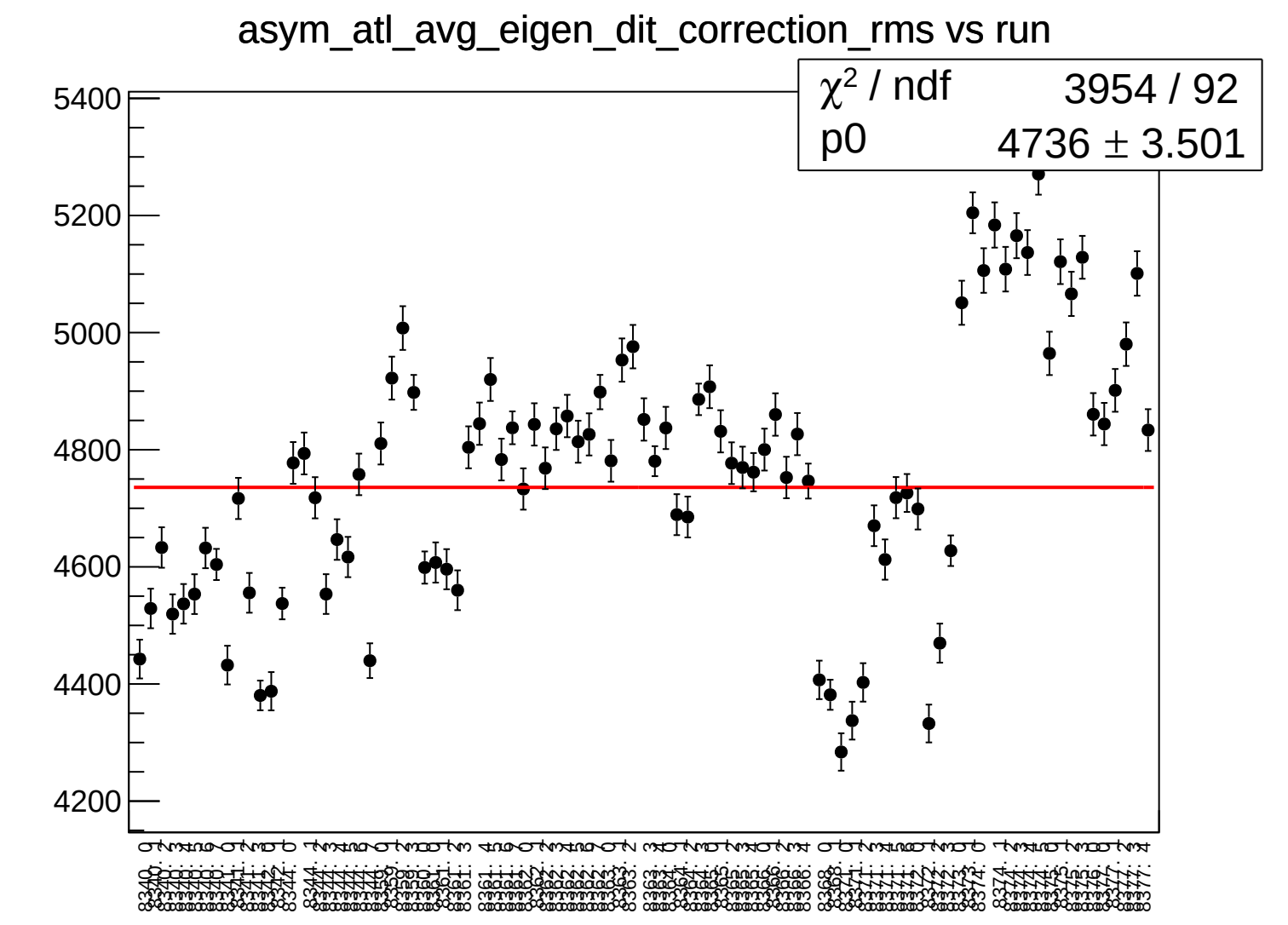

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 94.19 / 92
p0 −904.9 ± 1749
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −100.5
Std Dev 0
3
2
1
0
−1
−2

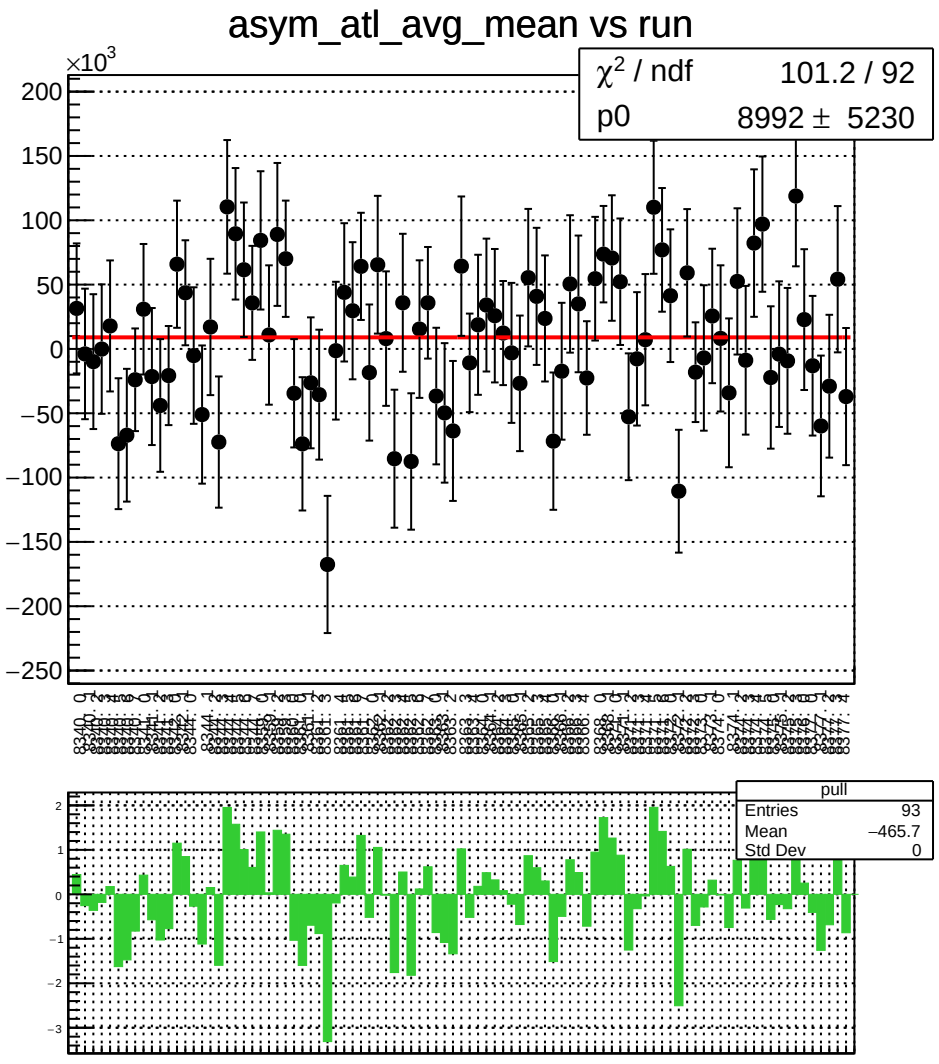

pull1D
Entries 93
Mean 0.004635
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

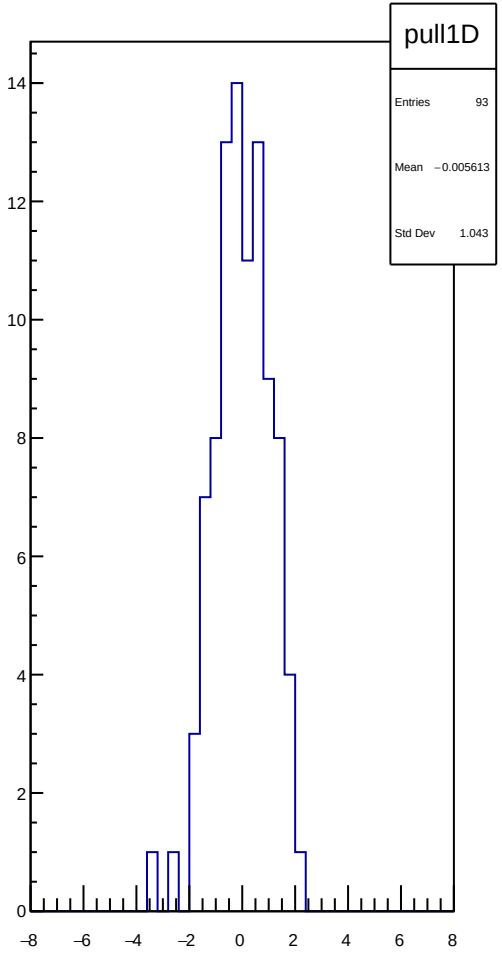

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 691.4 / 92
p0 1674 ± 1.236
1760
1740
1720
1700
1680
1660
1640
1620
1600

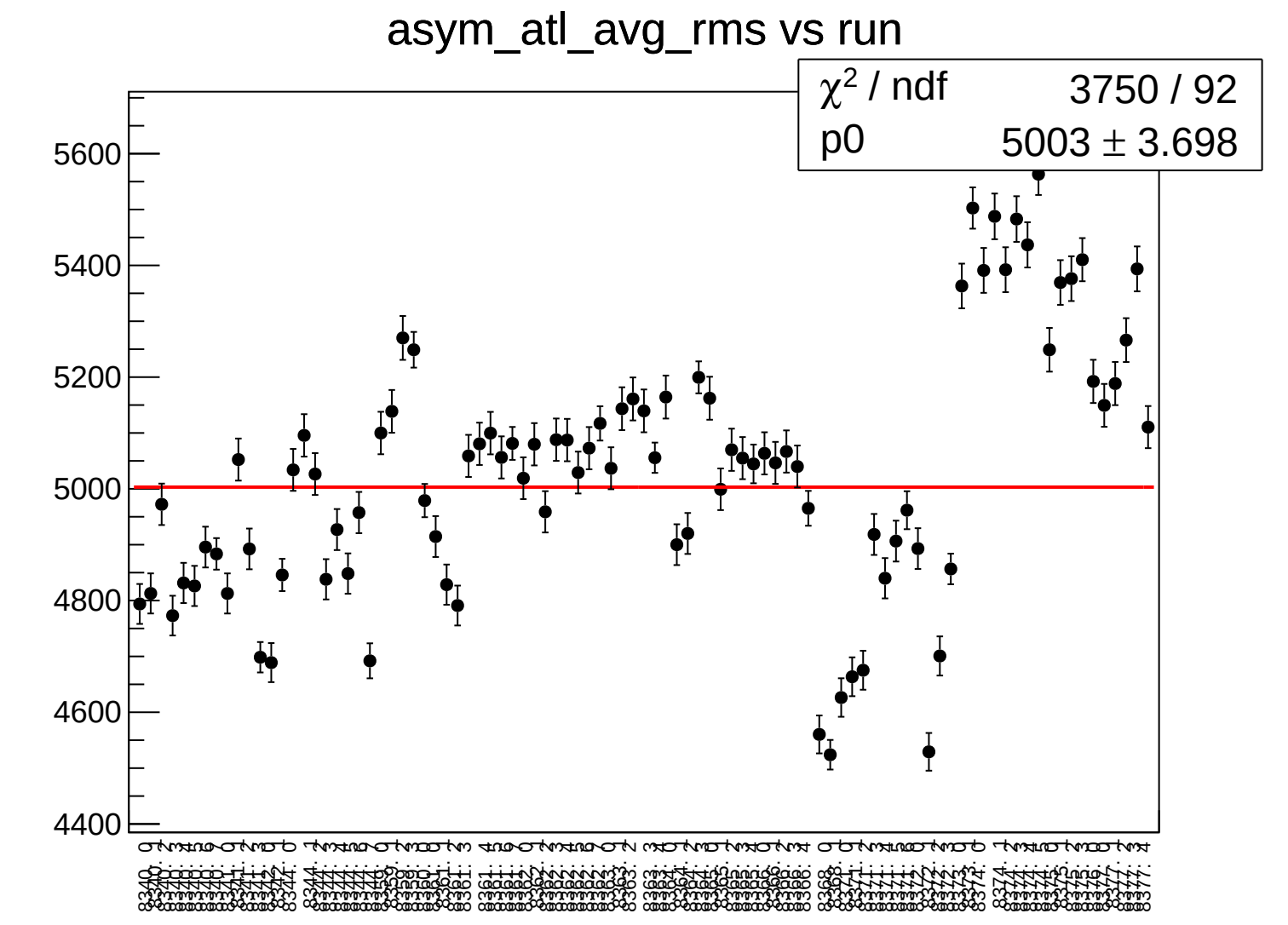

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.2 / 92
p0 −9853 ± 4951
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −419.6
Std Dev 0
3
2
1
0
−1
−2

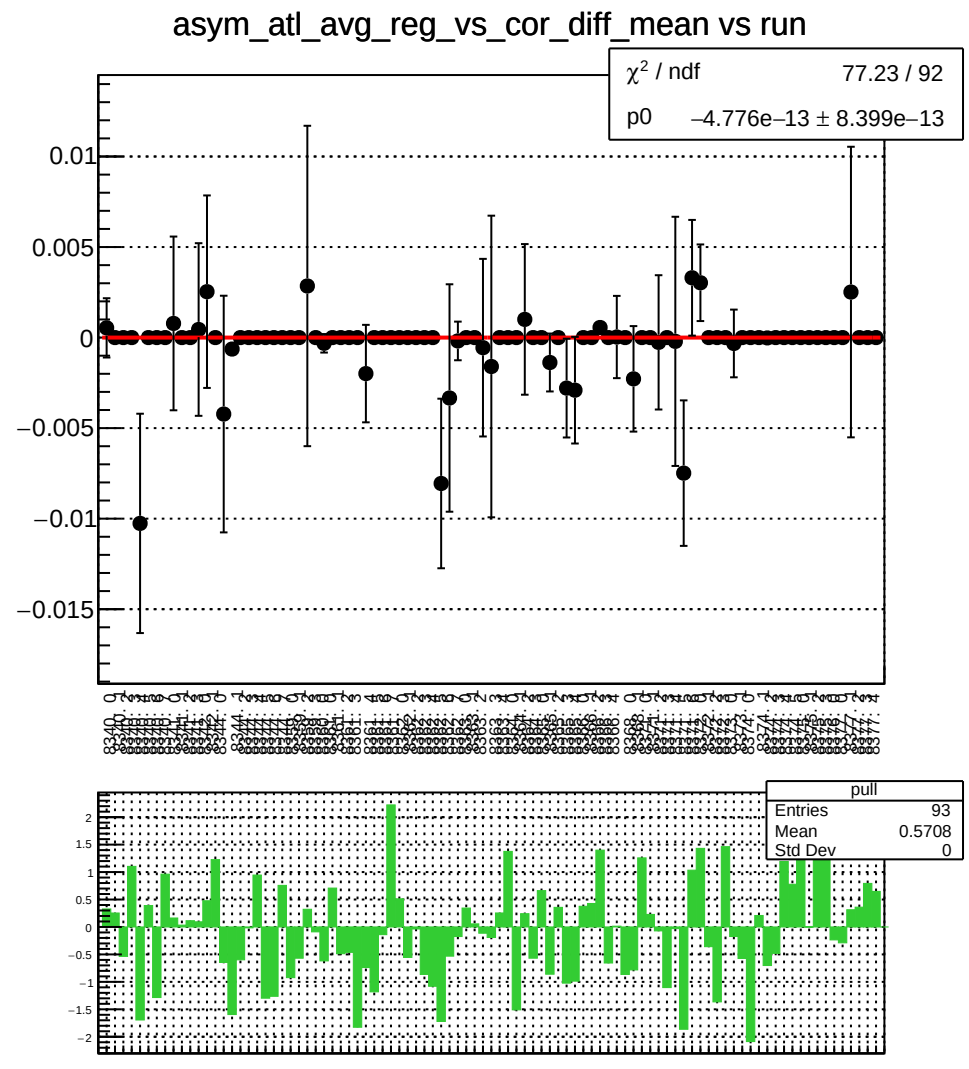

pull1D
Entries 93
Mean 0.006986
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

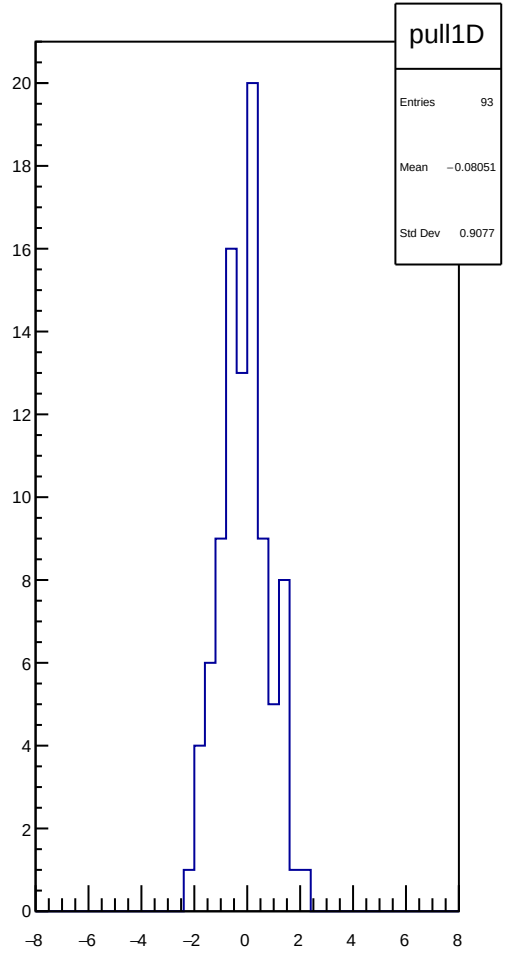

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3954 / 92
p0 4736 ± 3.501
5400
5200
5000
4800
4600
4400
4200

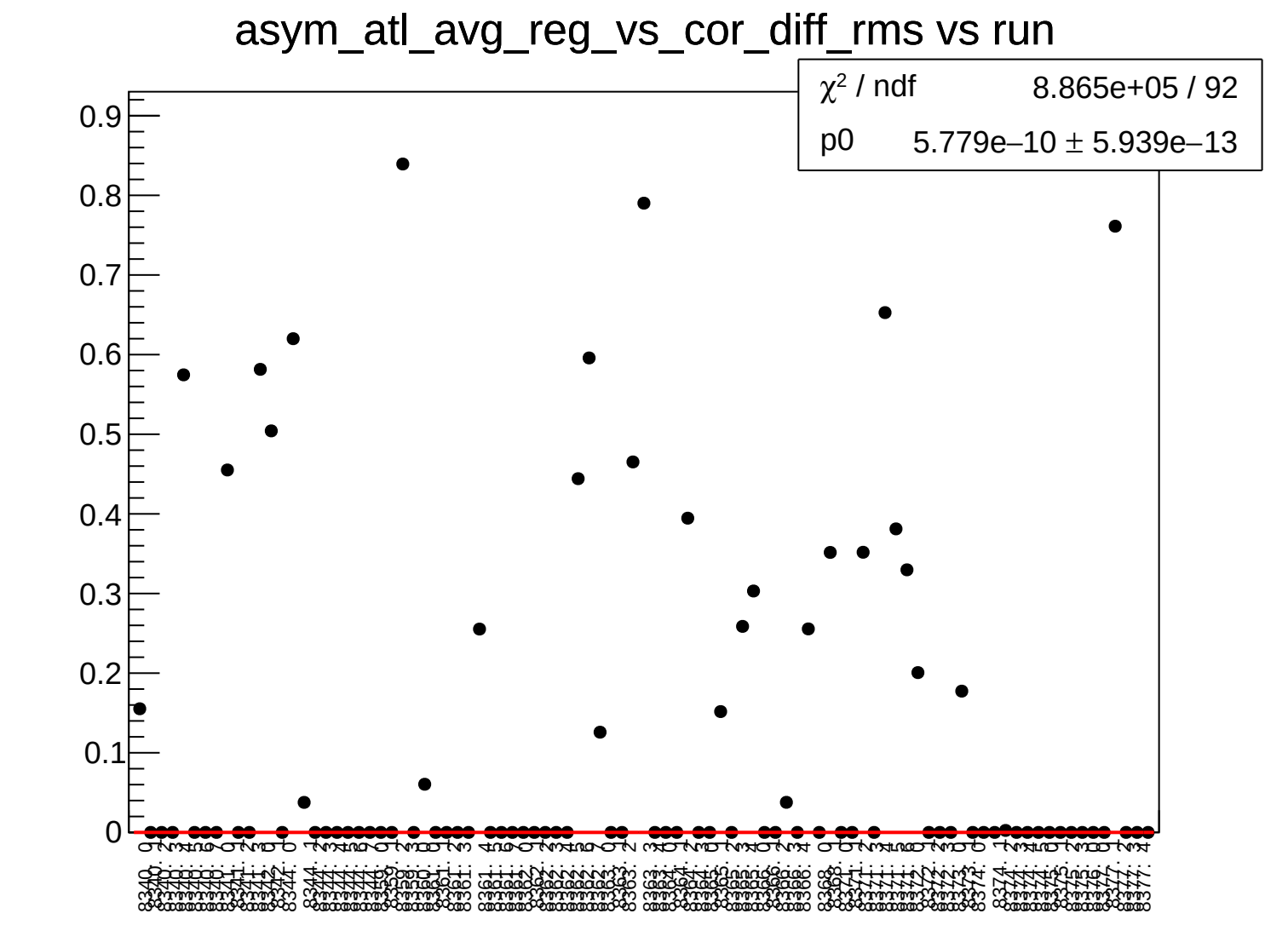

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 8992 ± 5230
pull
Entries 93
Mean −465.7
Std Dev 0

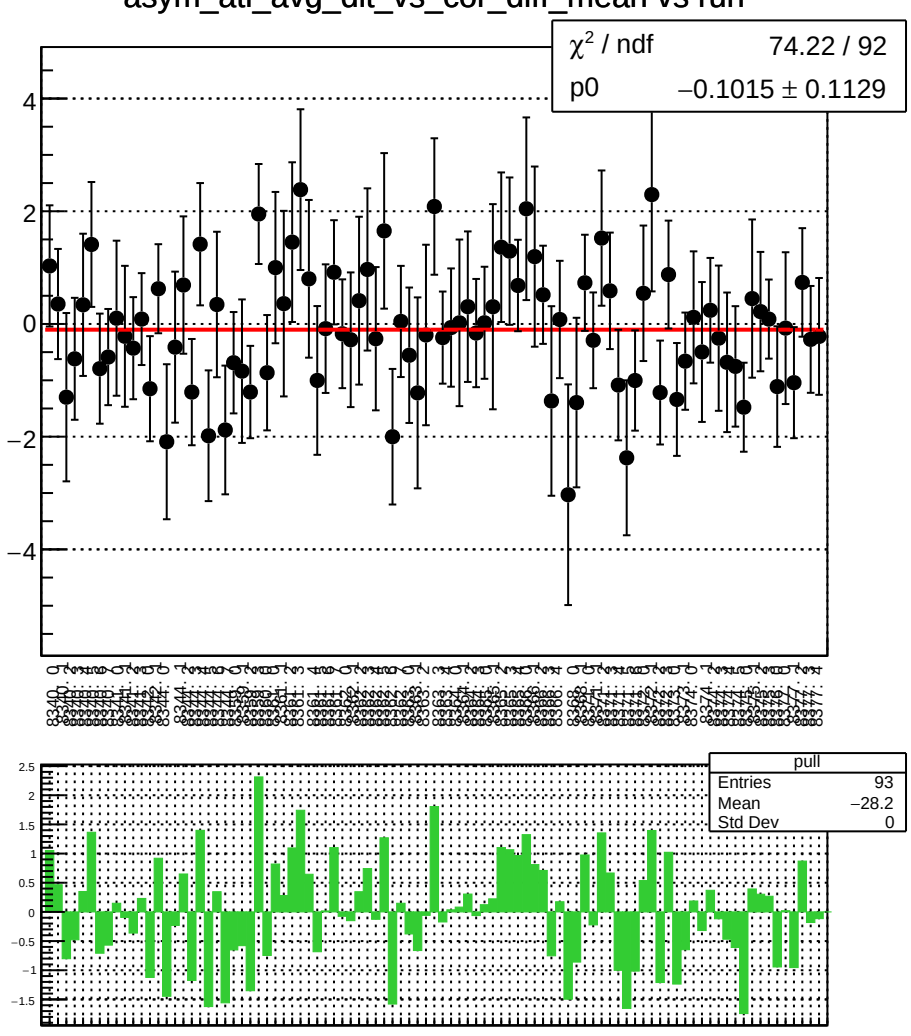

pull1D
Entries 93
Mean −0.005613
Std Dev 1.043

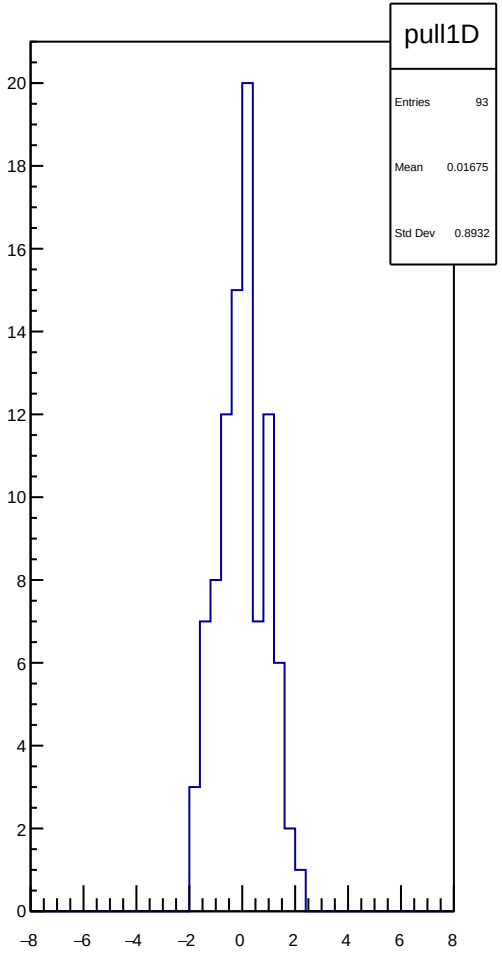

asym_atl_avg_rms vs run
χ² / ndf 3750 / 92
p0 5003 ± 3.698
5600
5400
5200
5000
4800
4600
4400

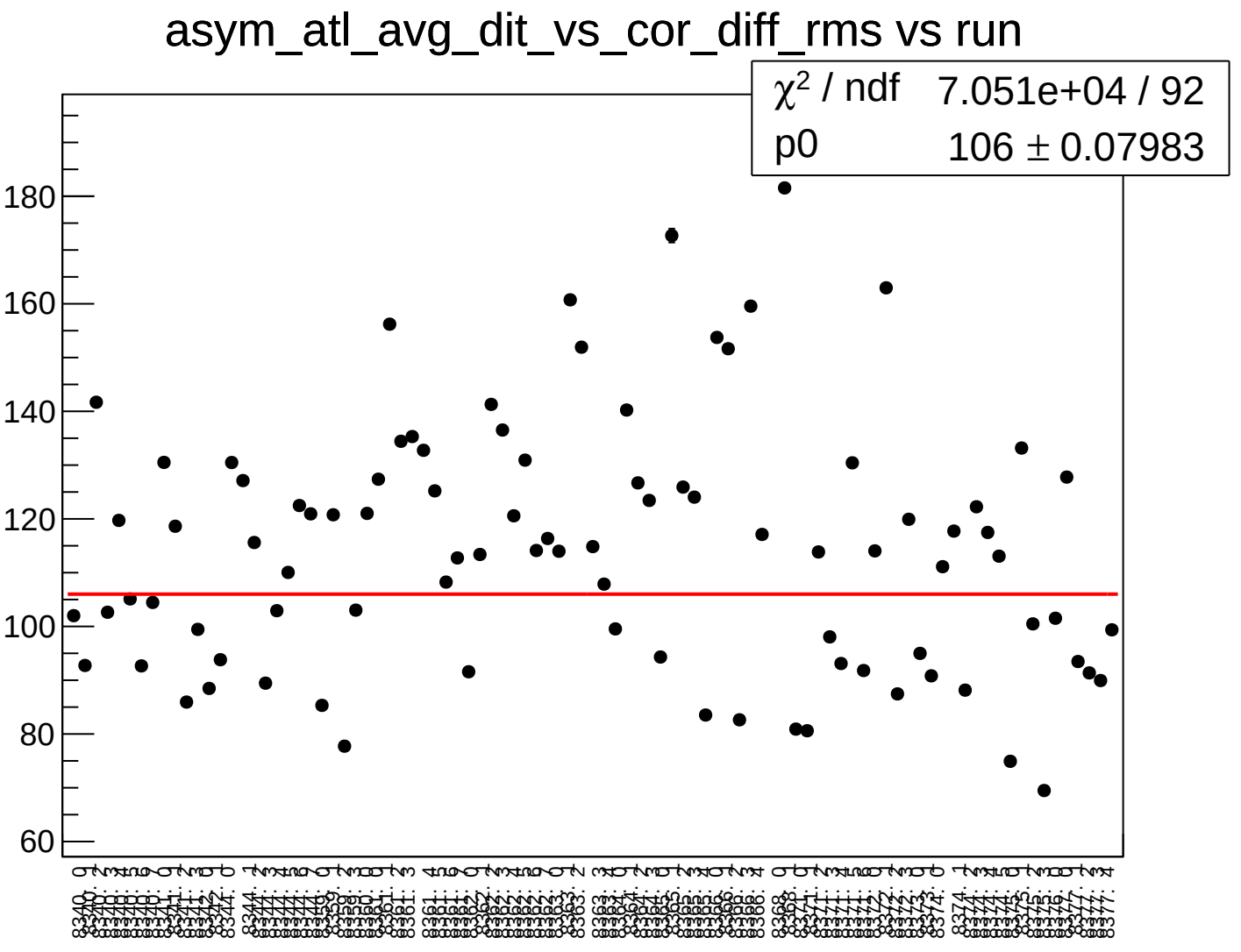

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.23 / 92
p0 −4.776e−13 ± 8.399e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 0.5708
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

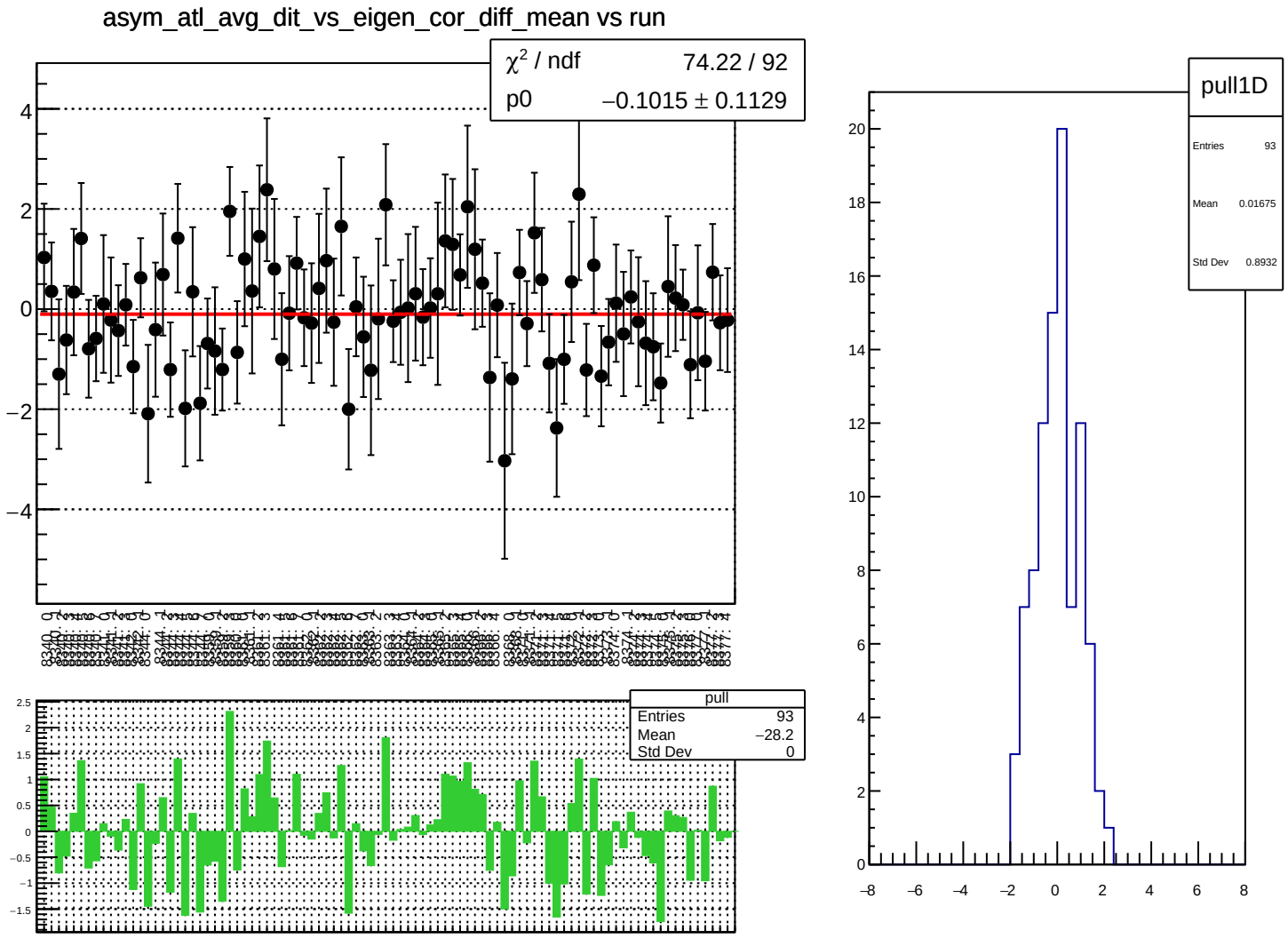

pull1D
Entries 93
Mean −0.08051
Std Dev 0.9077
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

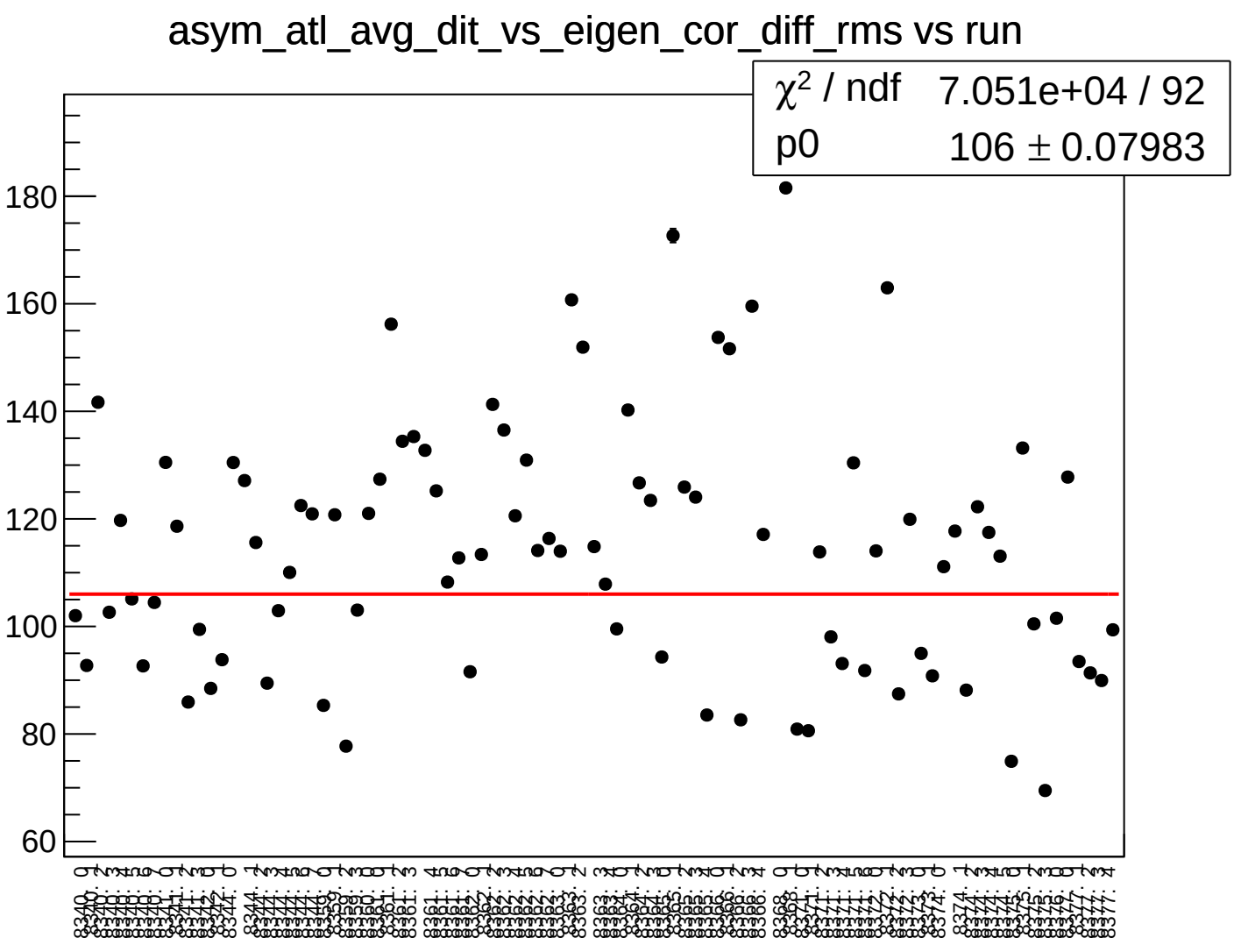

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.865e+05 / 92
p0 5.779e−10 ± 5.939e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

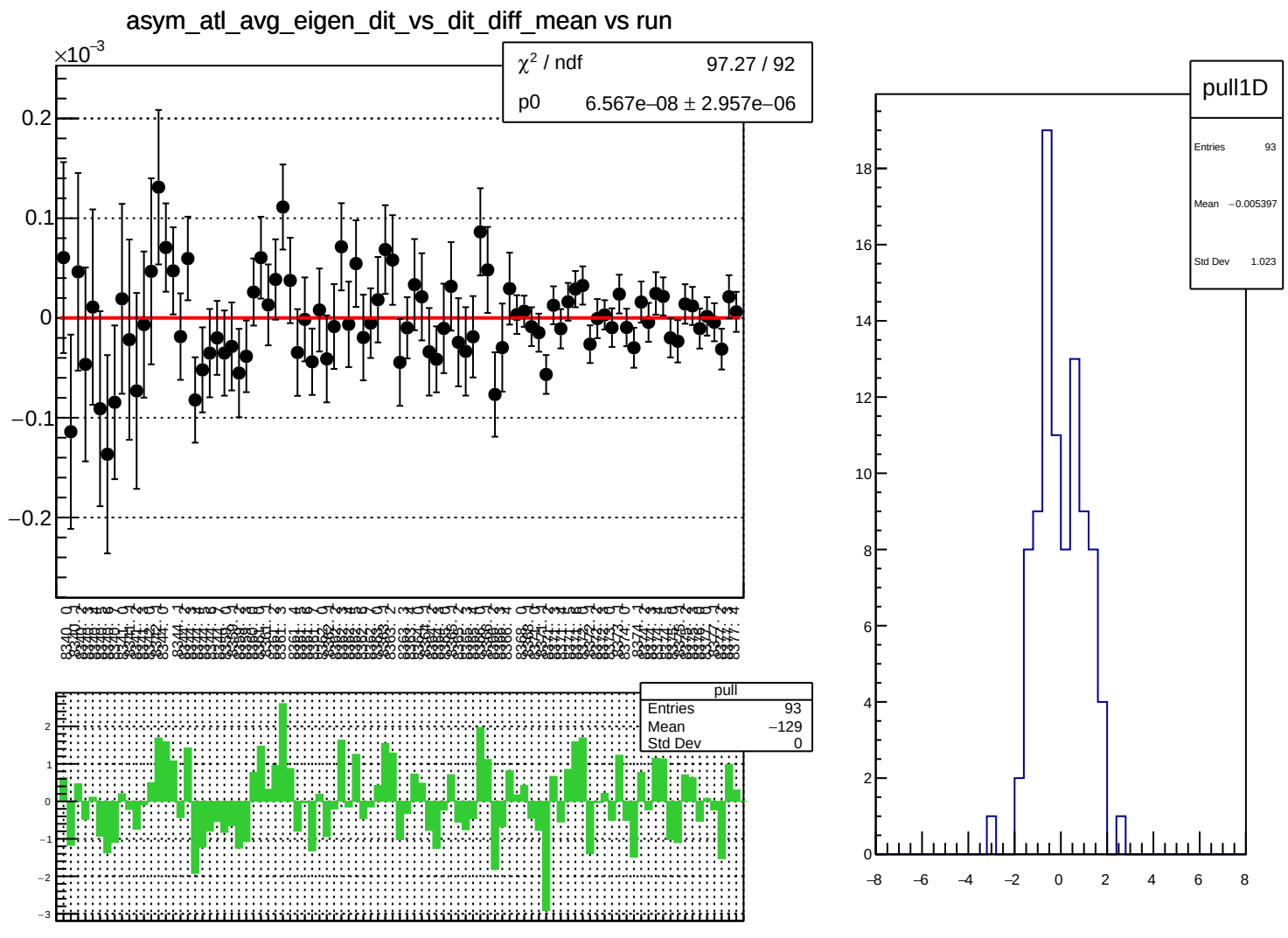

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.22 / 92
p0 −0.1015 ± 0.1129
pull
Entries 93
Mean −28.2
Std Dev 0

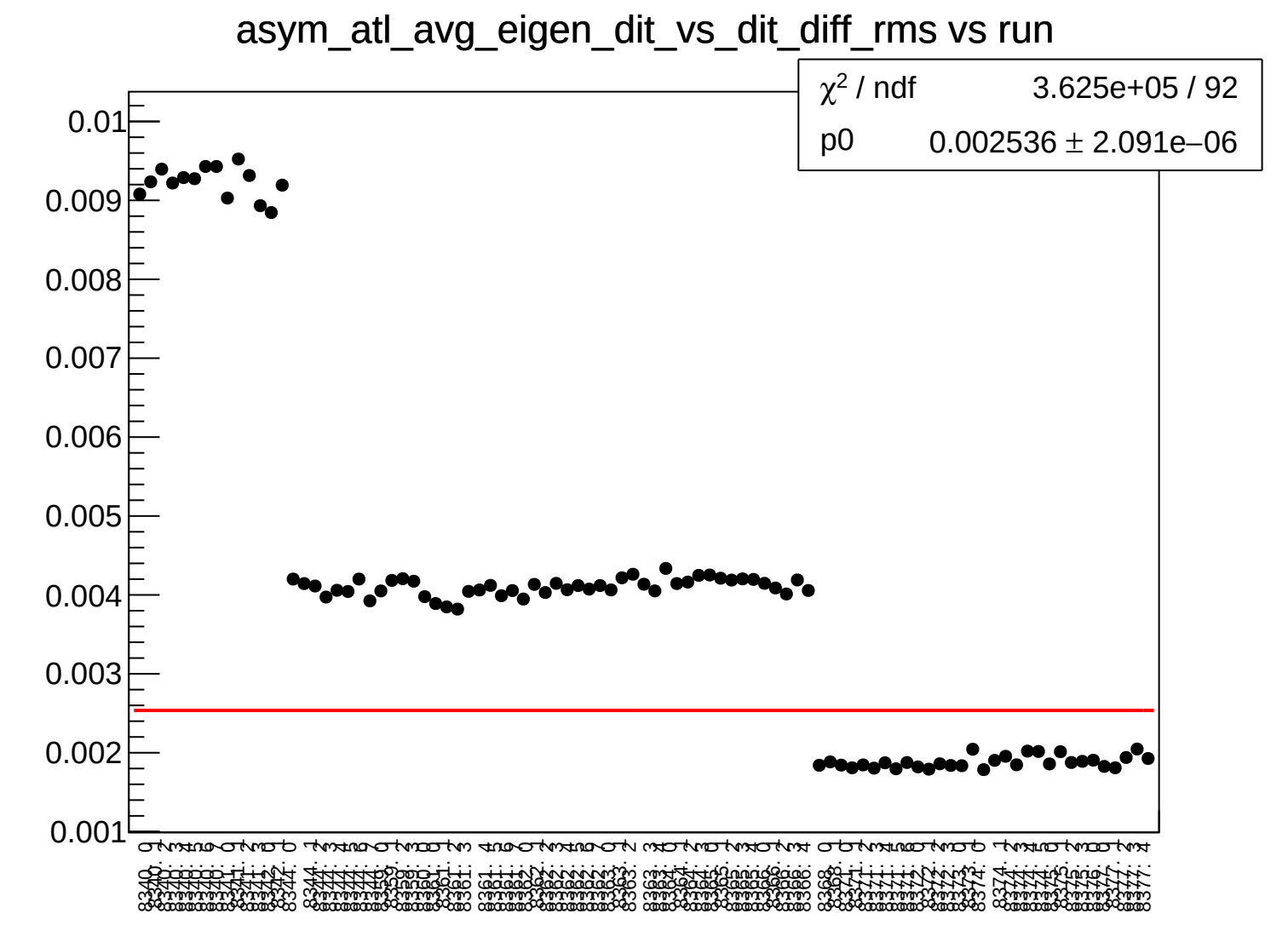

pull1D
Entries 93
Mean 0.01675
Std Dev 0.8932

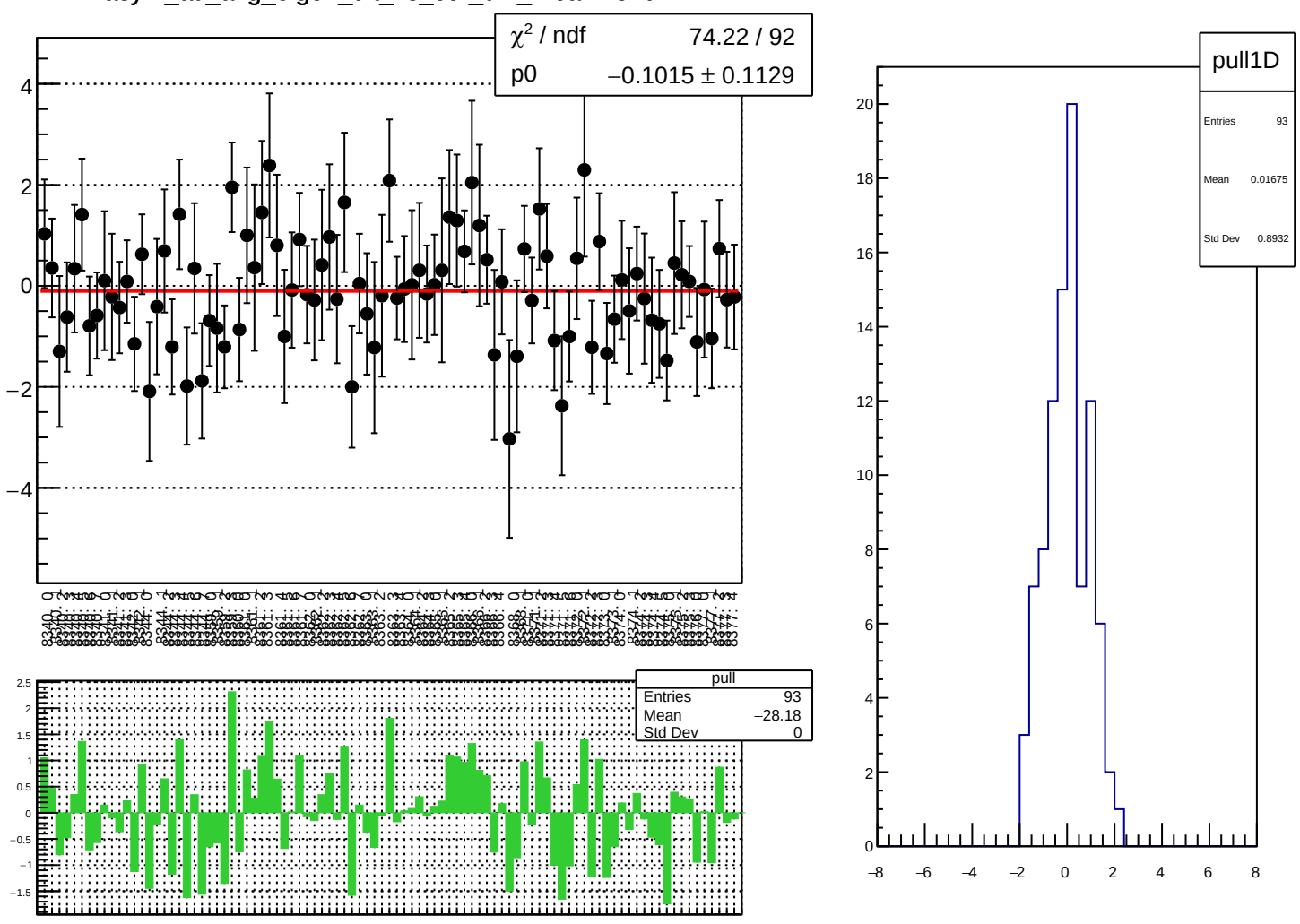

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.051e+04 / 92
p0 106 ± 0.07983
180
160
140
120
100
80
60

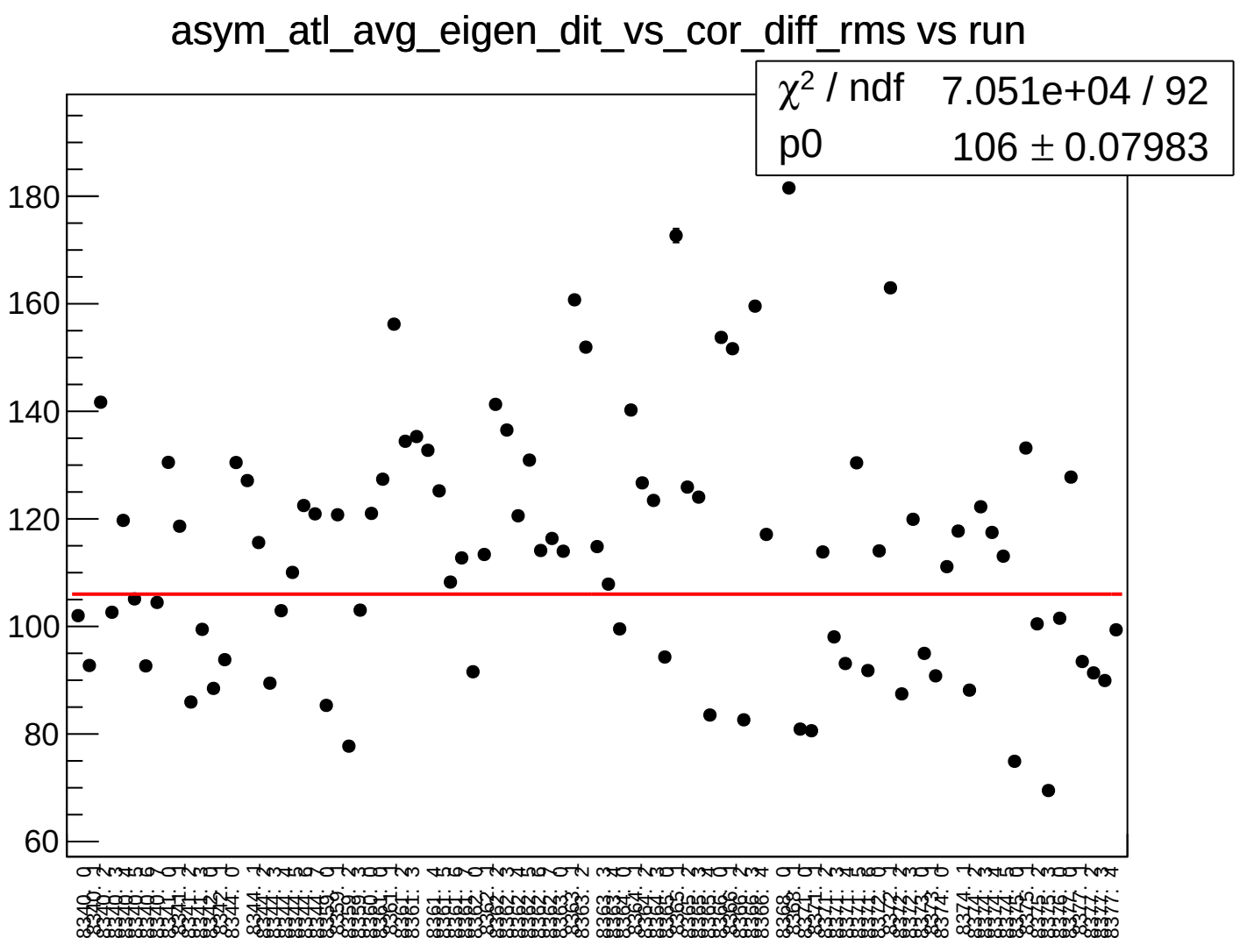

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.22 / 92
p0 −0.1015 ± 0.1129
pull
Entries 93
Mean −28.2
Std Dev 0
pull1D
Entries 93
Mean 0.01675
Std Dev 0.8932

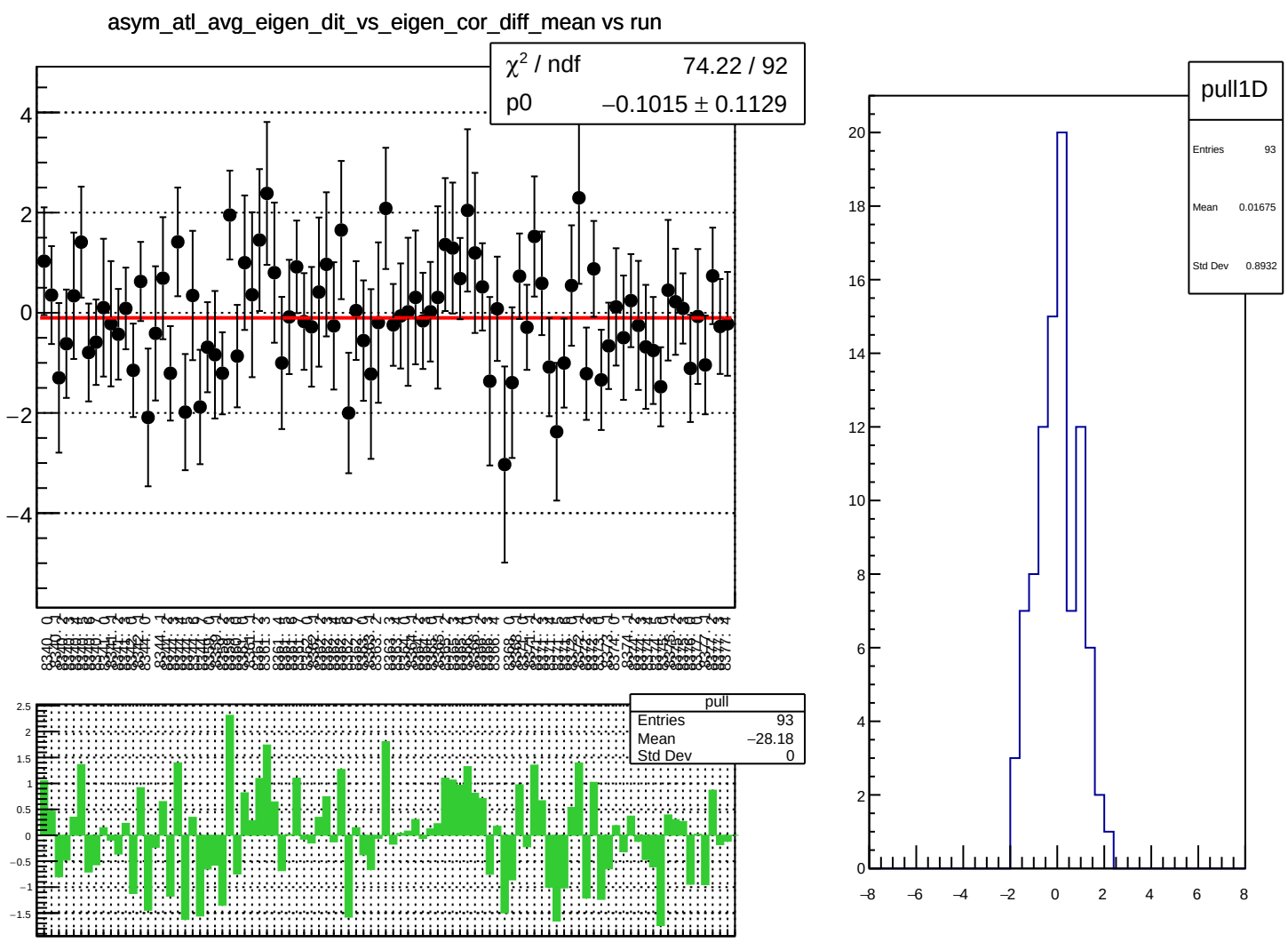

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.051e+04 / 92
p0 106 ± 0.07983
180
160
140
120
100
80
60

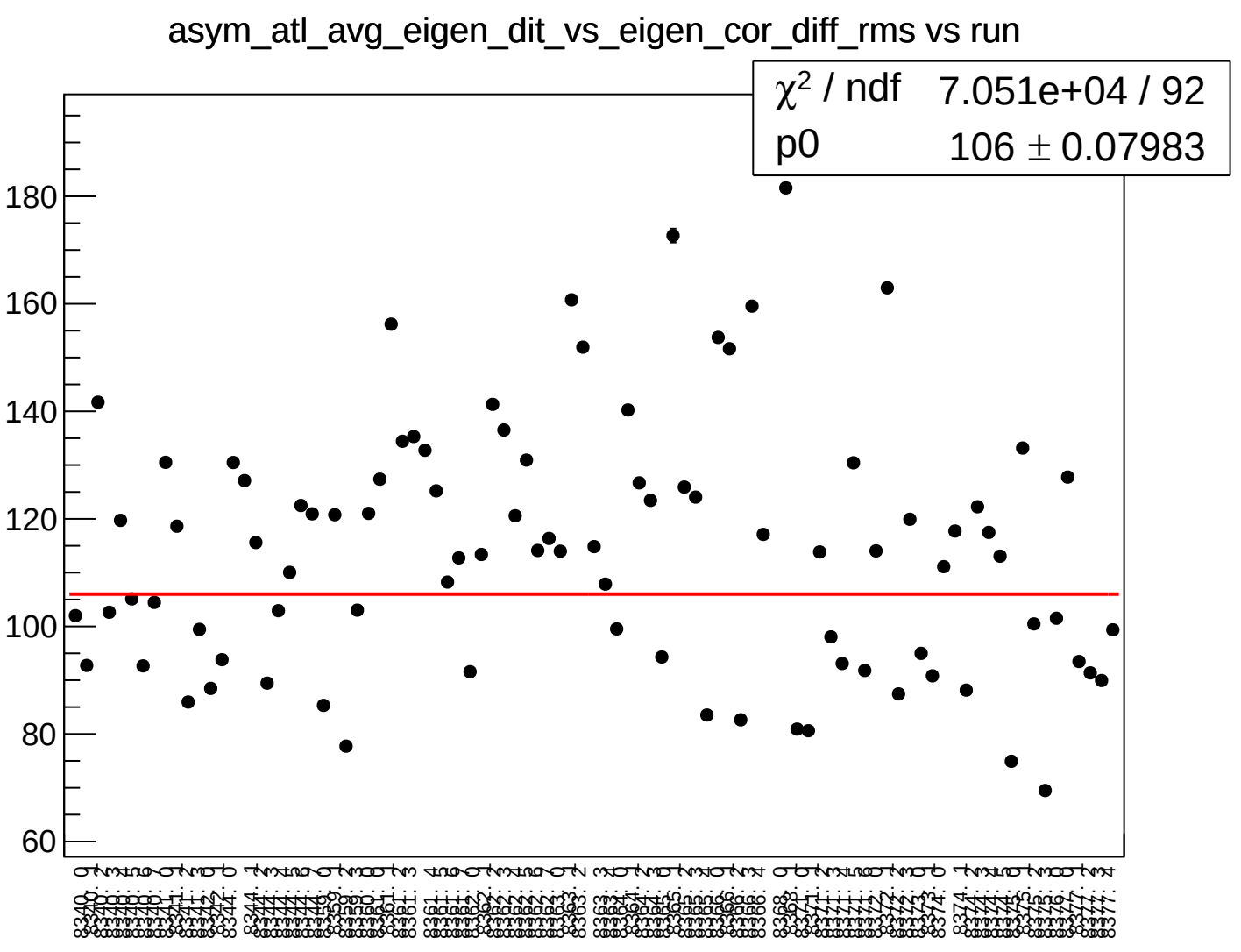

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.27 / 92
p0 6.567e−08 ± 2.957e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean −129
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.005397
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

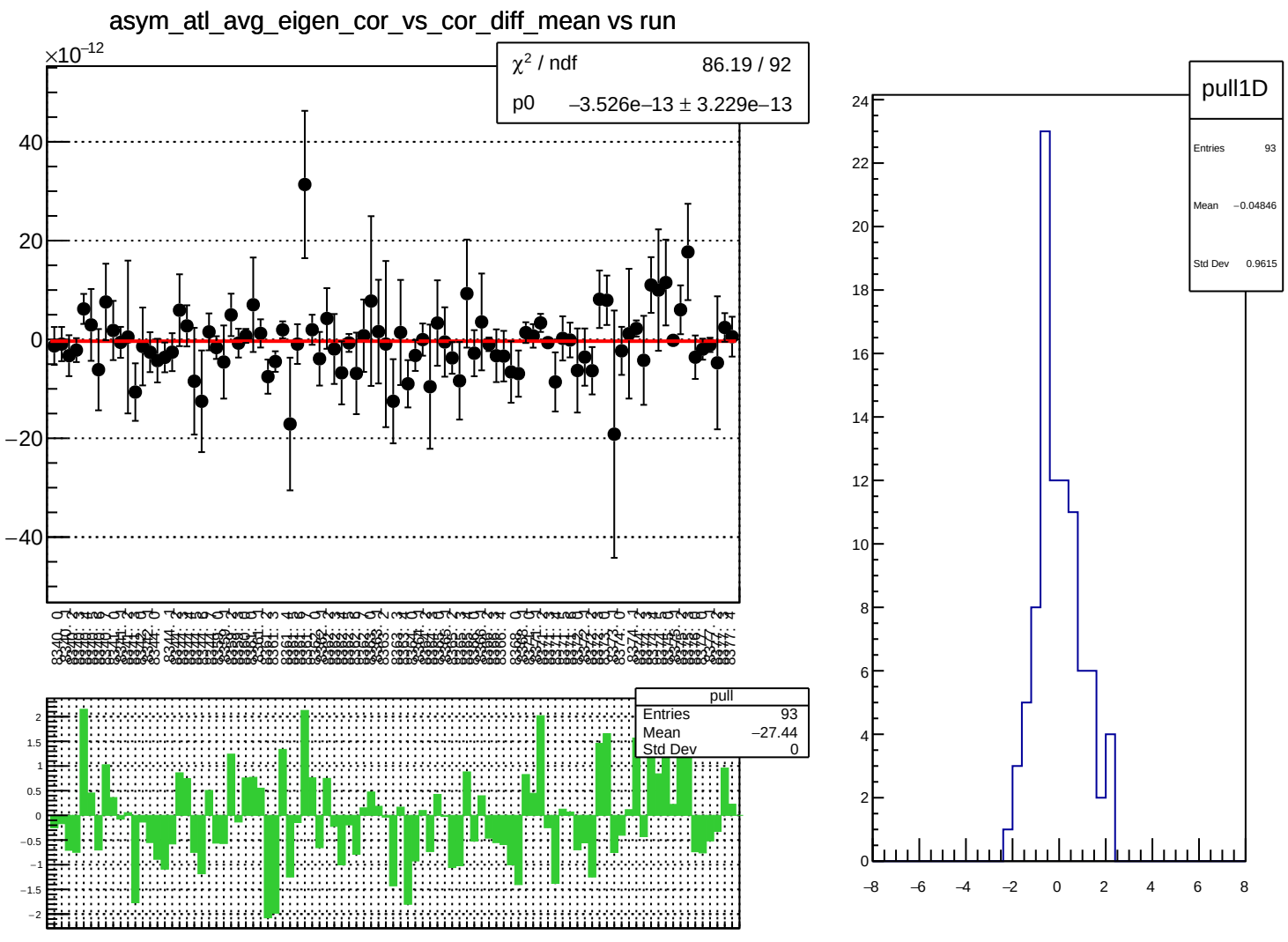

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.625e+05 / 92
p0 0.002536 ± 2.091e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

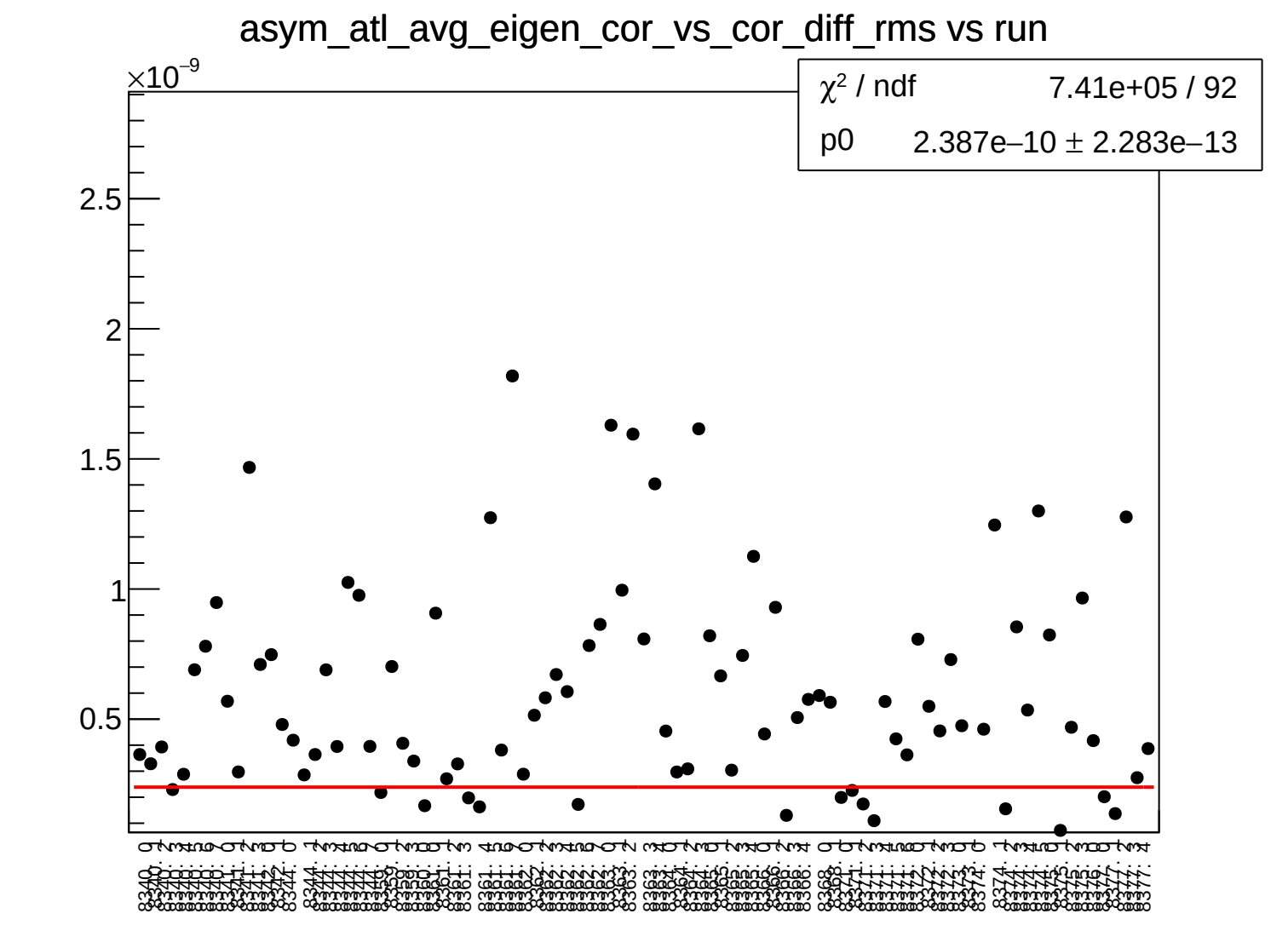

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.22 / 92
p0 −0.1015 ± 0.1129
pull
Entries 93
Mean −28.18
Std Dev 0
pull1D
Entries 93
Mean 0.01675
Std Dev 0.8932

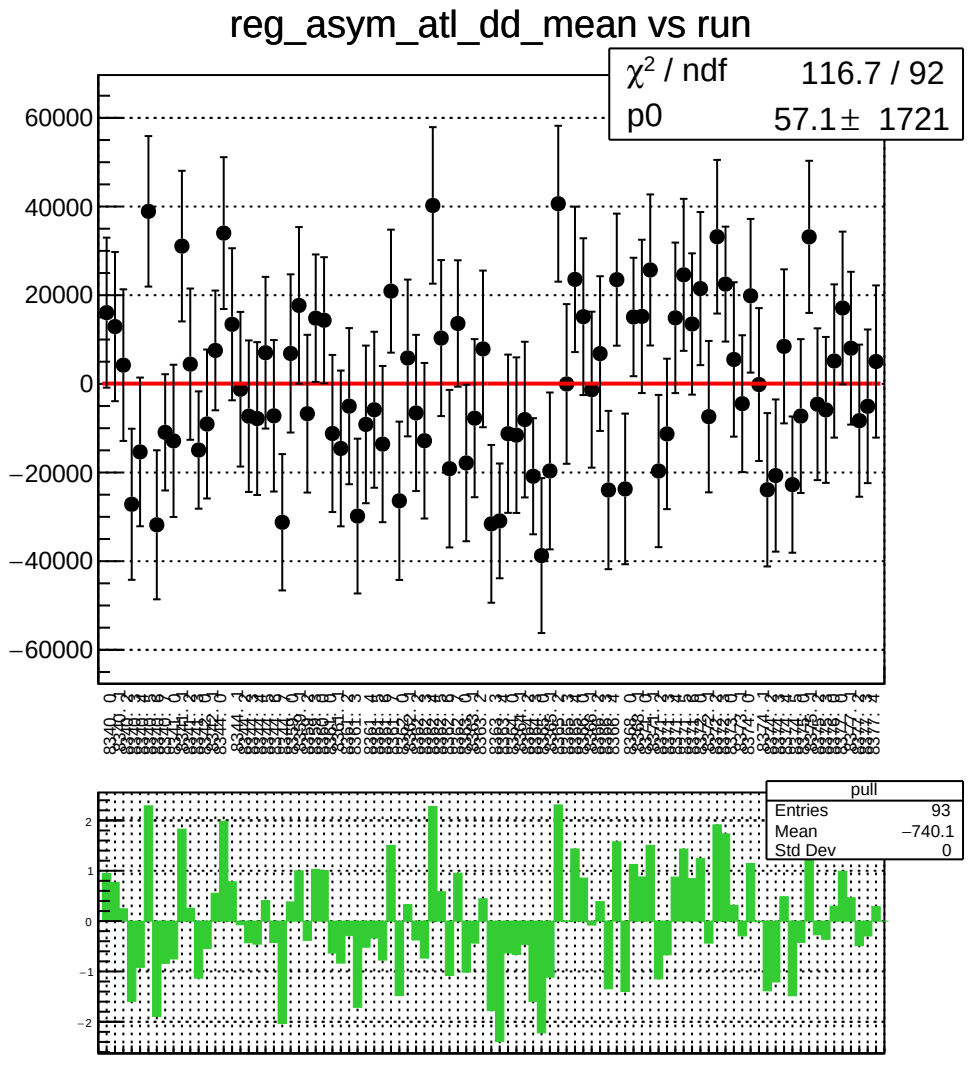

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.051e+04 / 92
p0 106 ± 0.07983
180
160
140
120
100
80
60

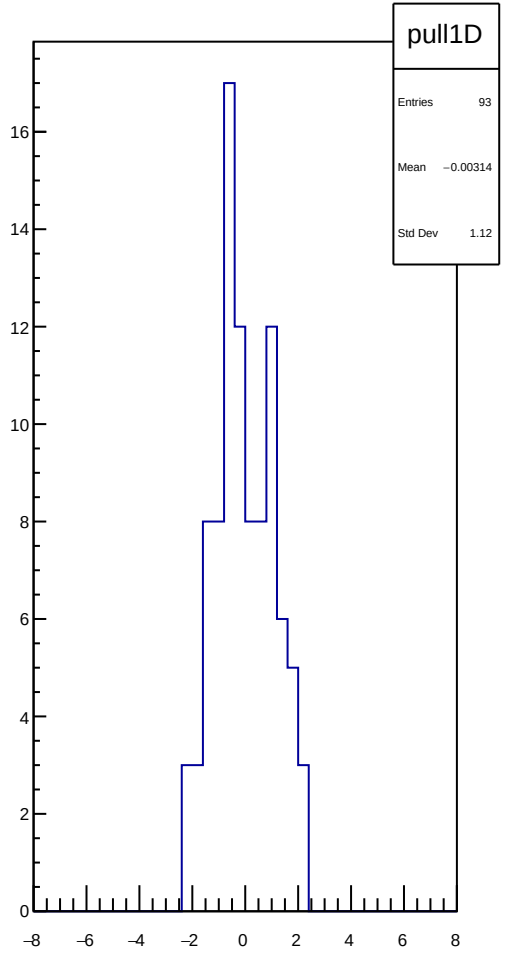

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.22 / 92
p0 −0.1015 ± 0.1129
pull
Entries 93
Mean −28.18
Std Dev 0
pull1D
Entries 93
Mean 0.01675
Std Dev 0.8932

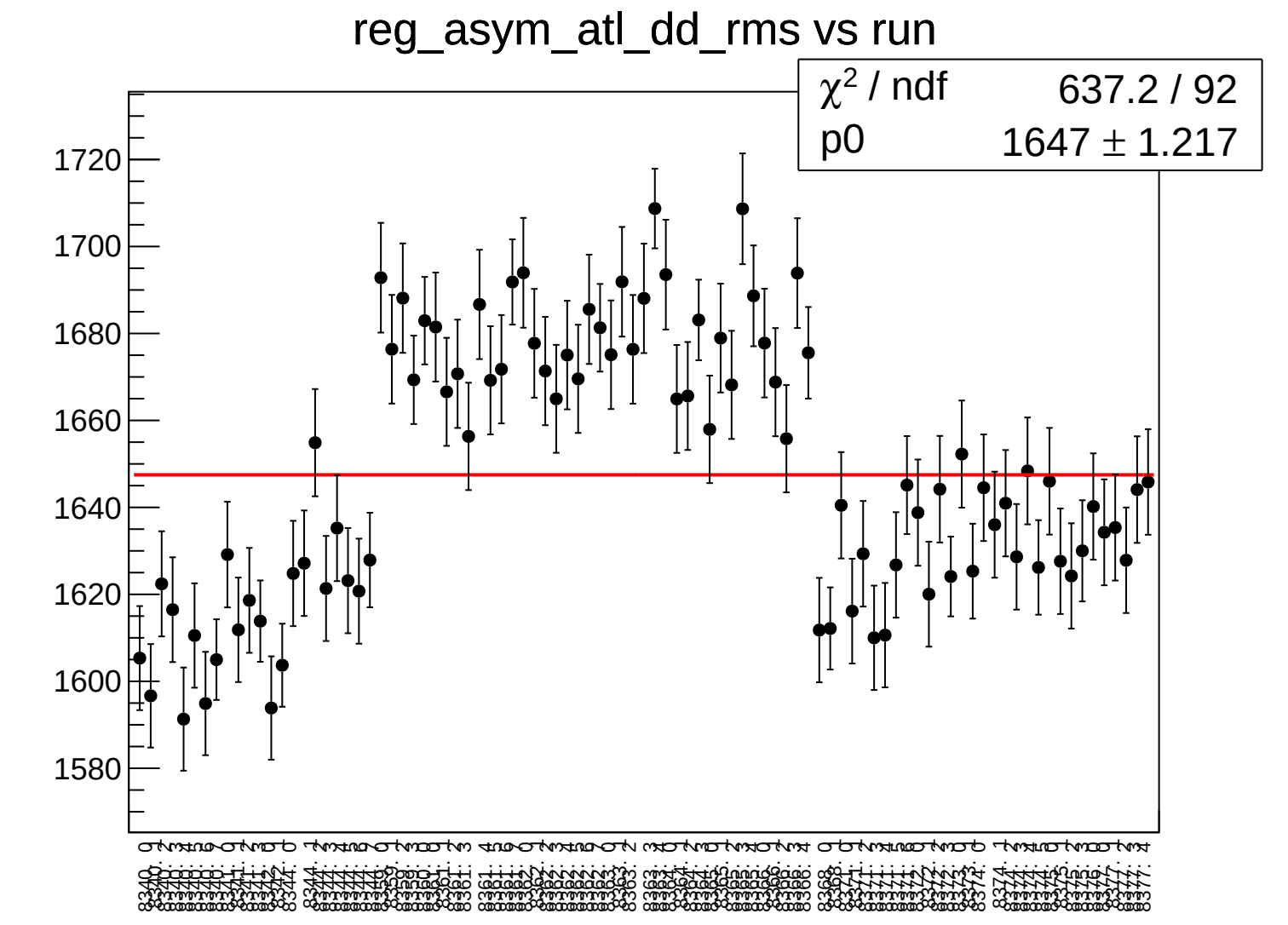

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.051e+04 / 92
p0 106 ± 0.07983
180
160
140
120
100
80
60

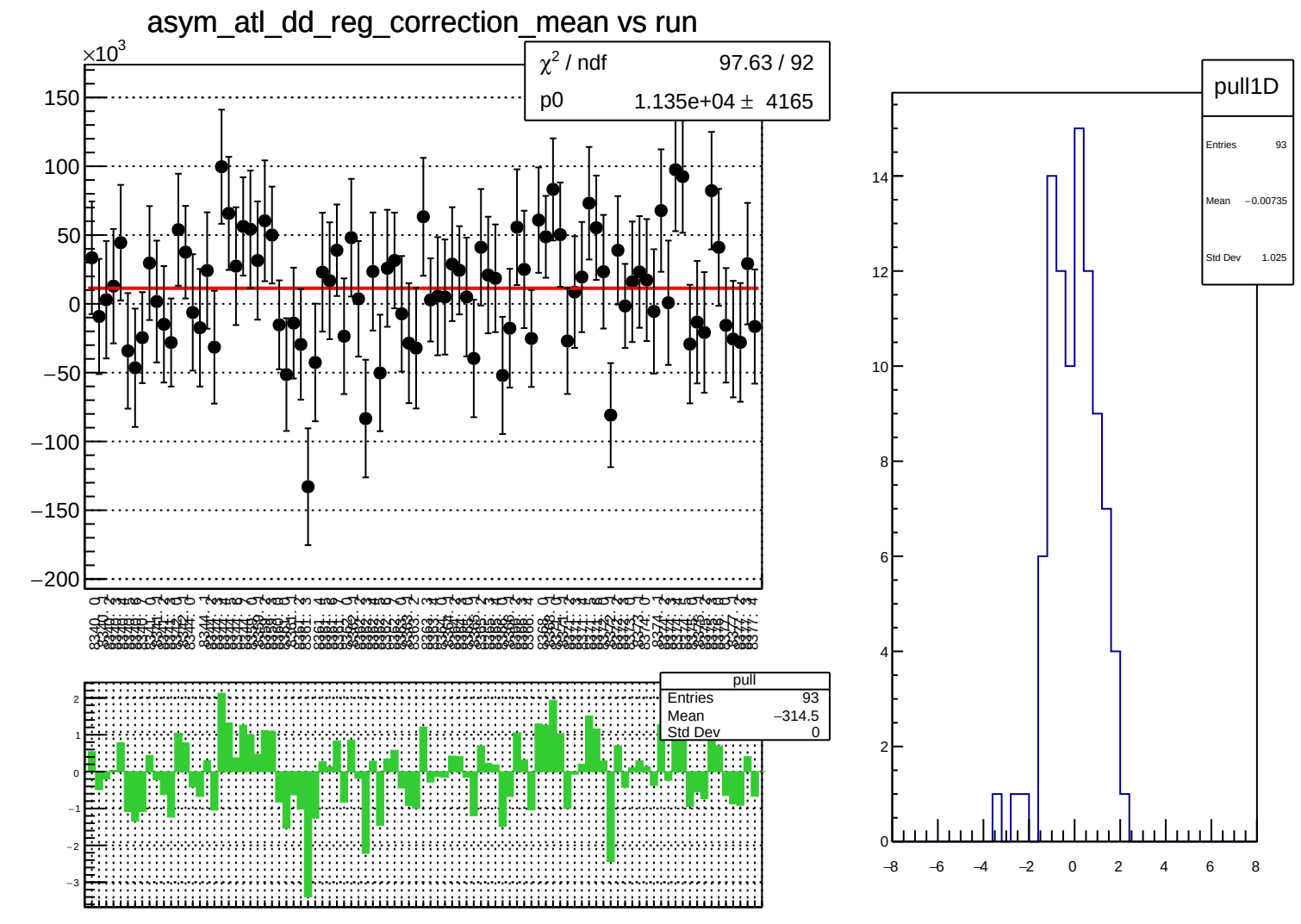

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.19 / 92
p0 −3.526e−13 ± 3.229e−13
40
20
0
−20
−40
pull
Entries 93
Mean −27.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.04846
Std Dev 0.9615
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

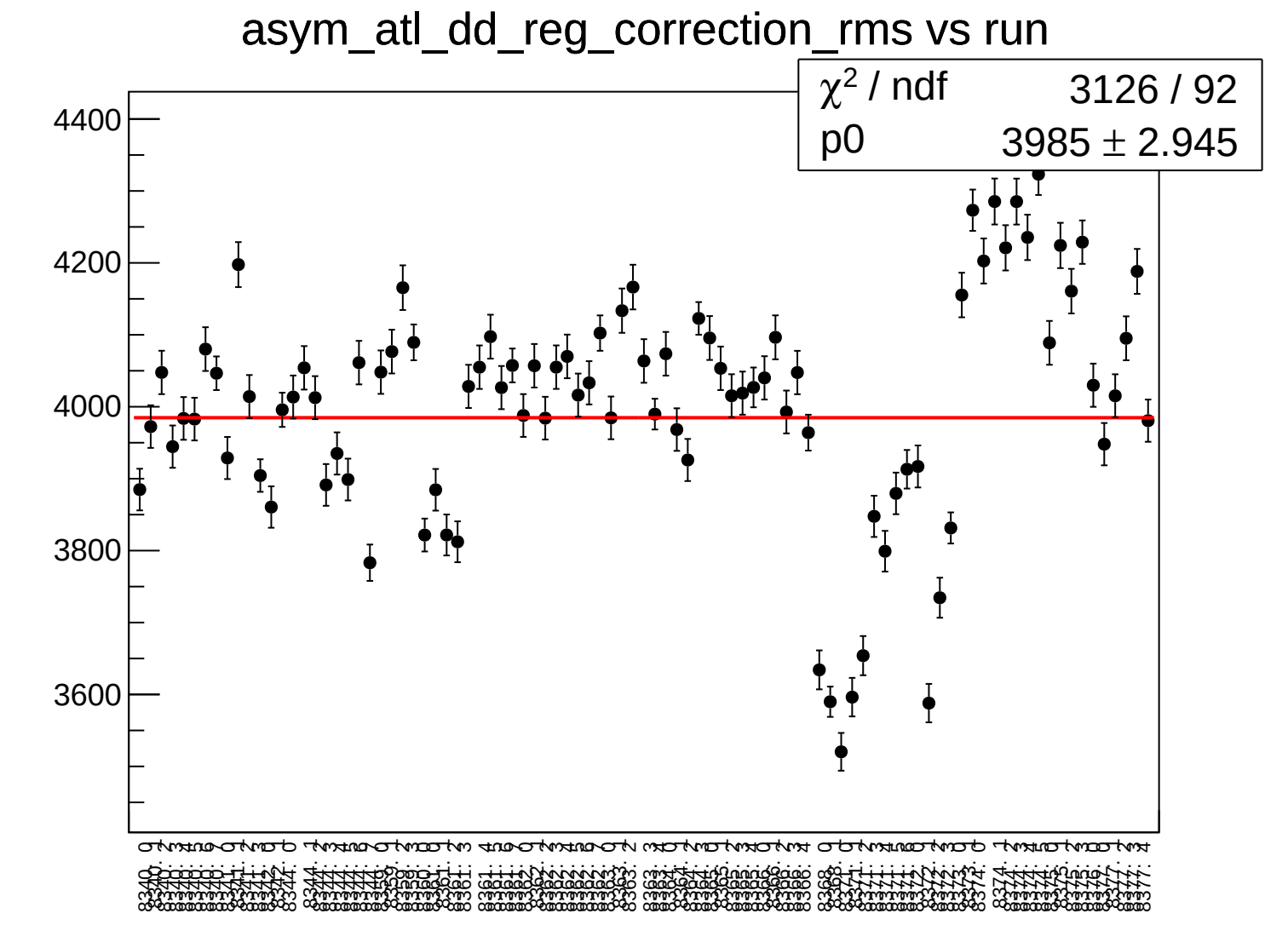

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.41e+05 / 92
p0 2.387e−10 ± 2.283e−13
2.5
2
1.5
1
0.5

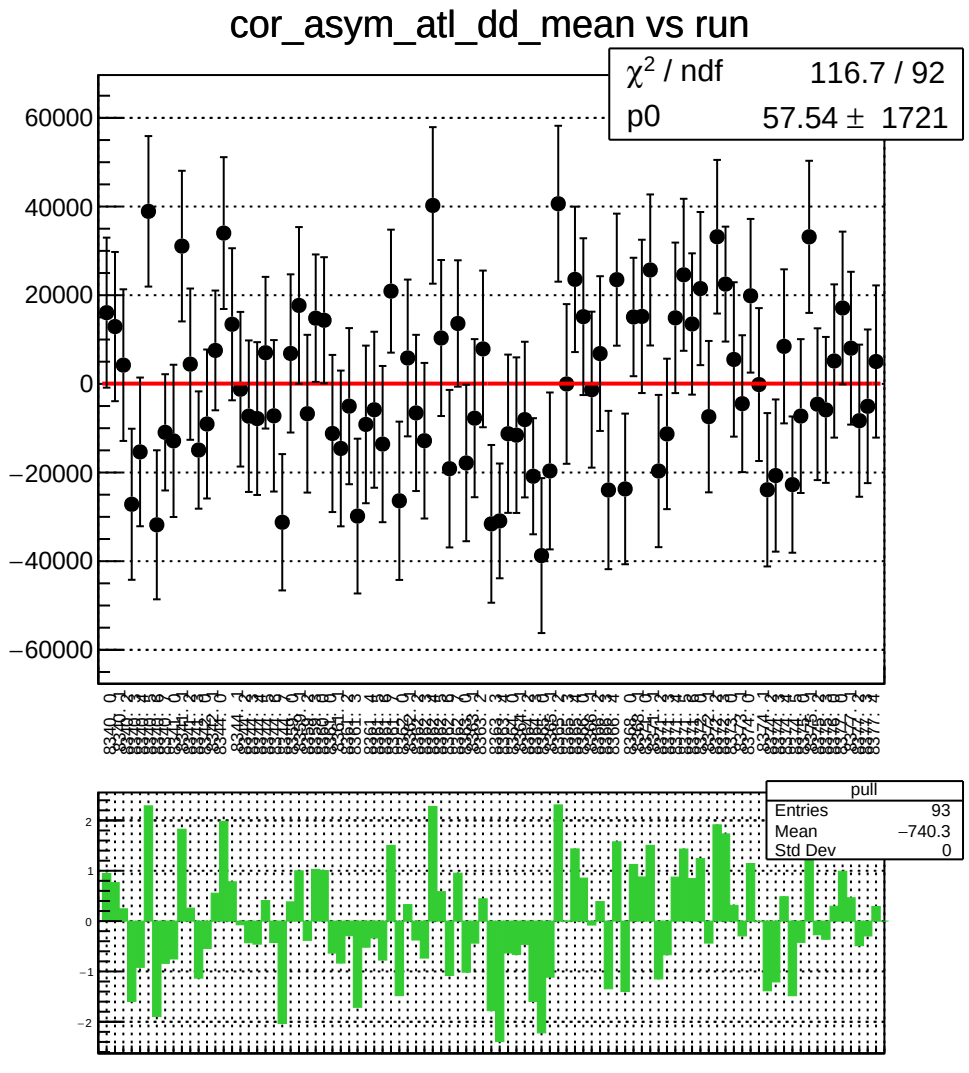

reg_asym_atl_dd_mean vs run
χ² / ndf 116.7 / 92
p0 57.1± 1721
pull
Entries 93
Mean −740.1
Std Dev 0

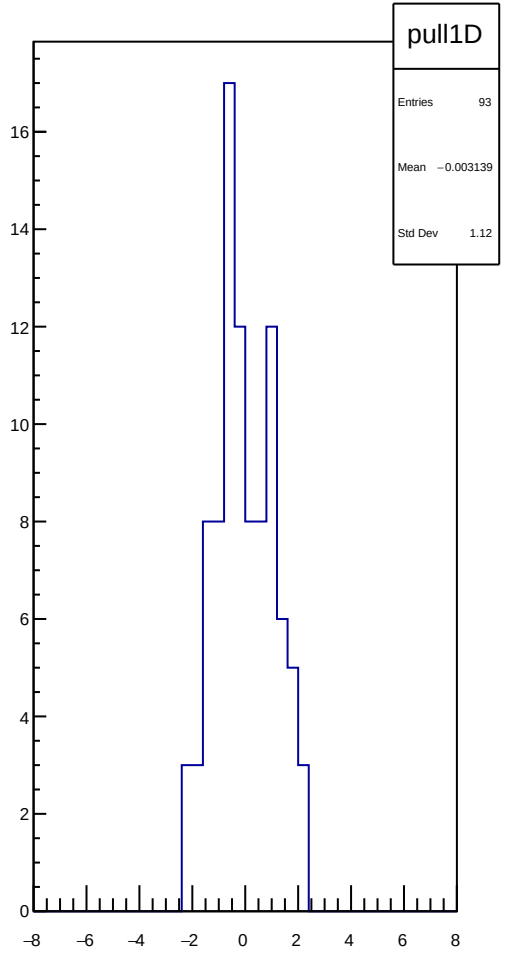

pull1D
Entries 93
Mean −0.00314
Std Dev 1.12

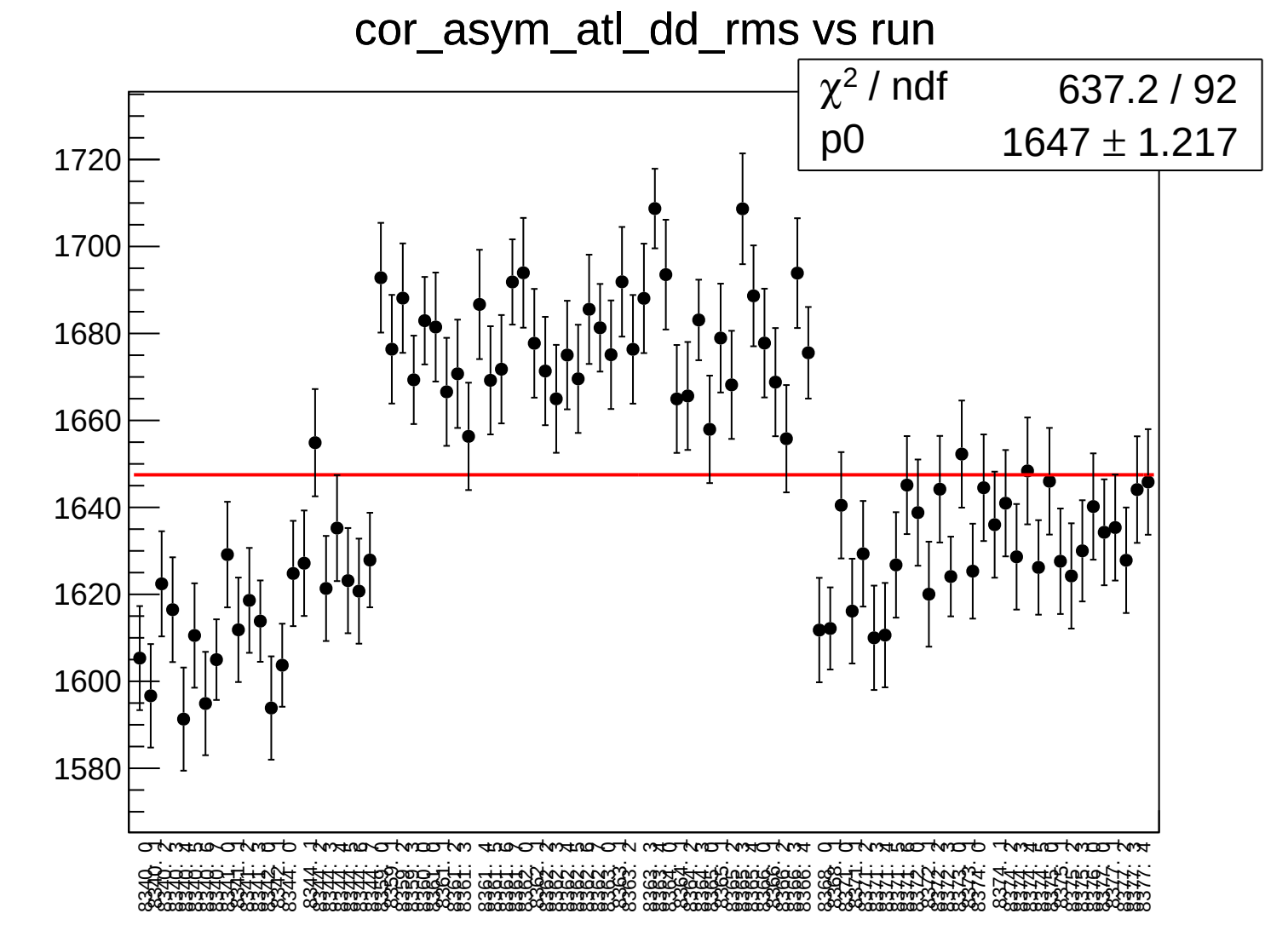

reg_asym_atl_dd_rms vs run
χ² / ndf 637.2 / 92
p0 1647 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580

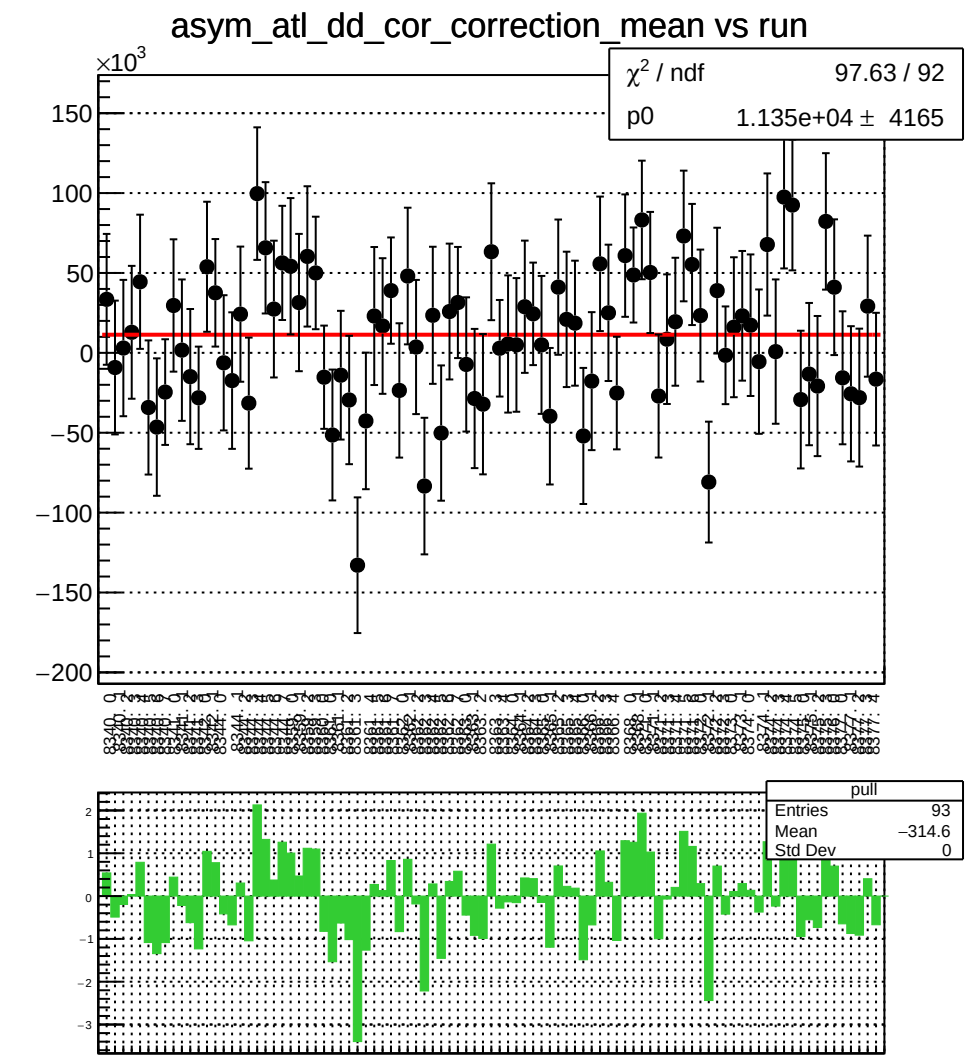

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 97.63 / 92
p0 1.135e+04 ± 4165
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −314.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00735
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

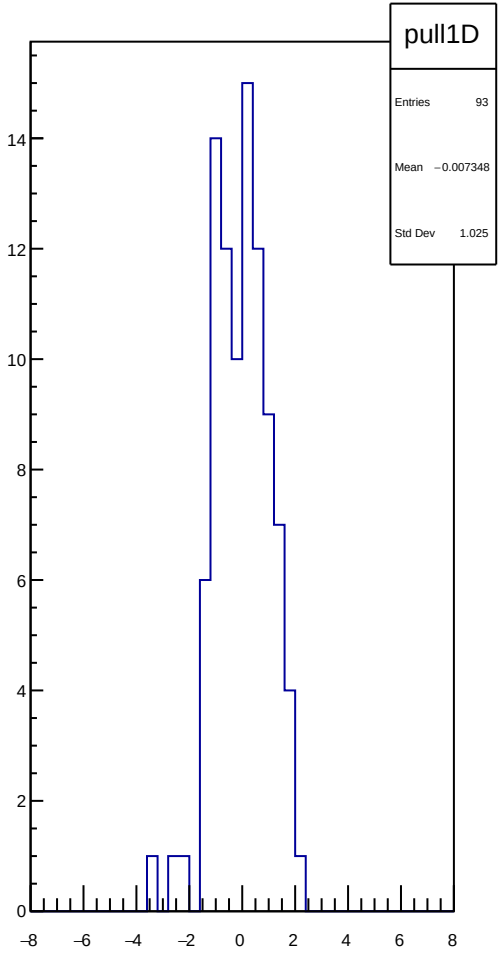

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 3126 / 92
p0 3985 ± 2.945
4400
4200
4000
3800
3600

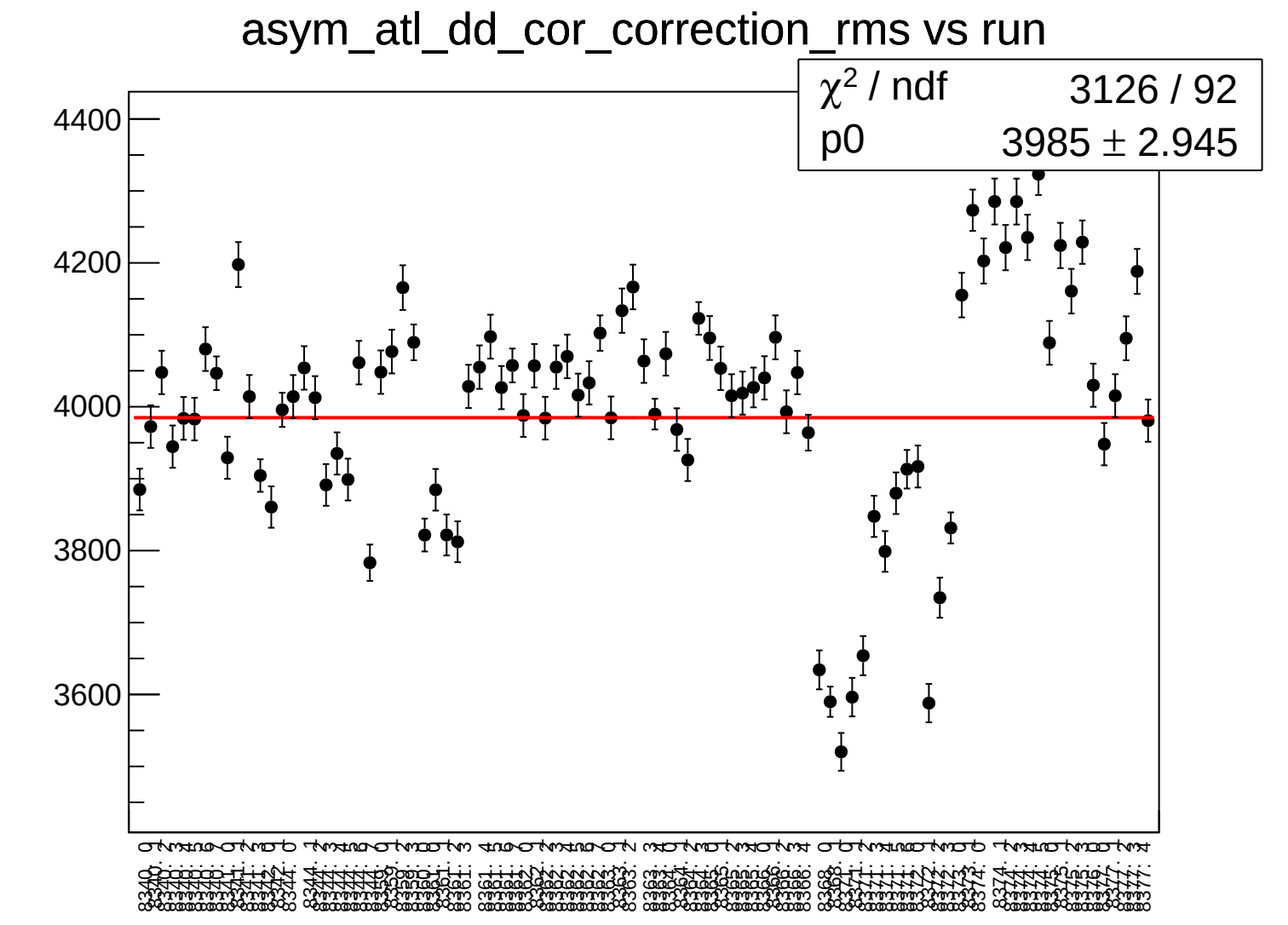

cor_asym_atl_dd_mean vs run
χ² / ndf 116.7 / 92
p0 57.54 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −740.3
Std Dev 0
2
1
0
−1
−2

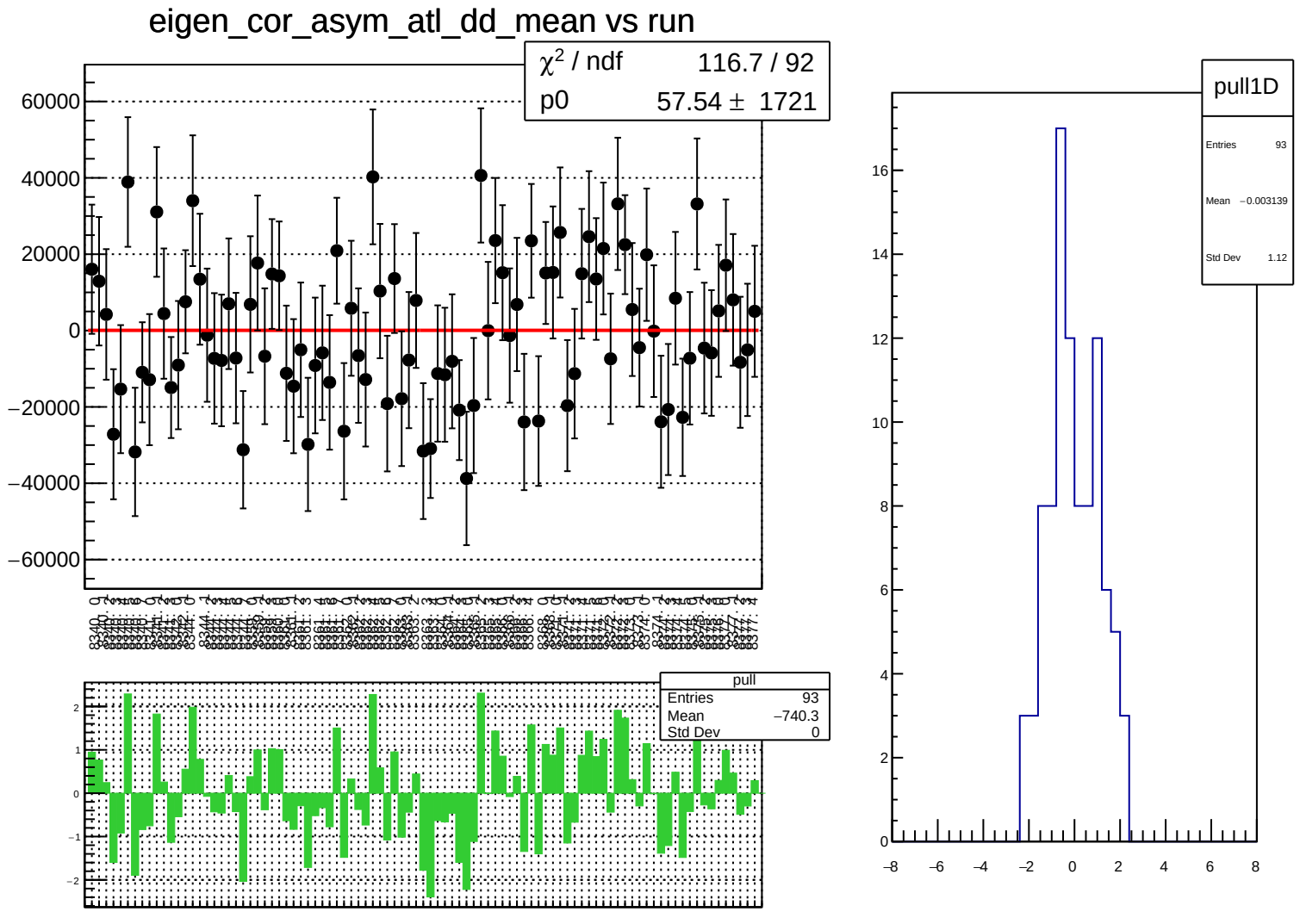

pull1D
Entries 93
Mean −0.003139
Std Dev 1.12
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

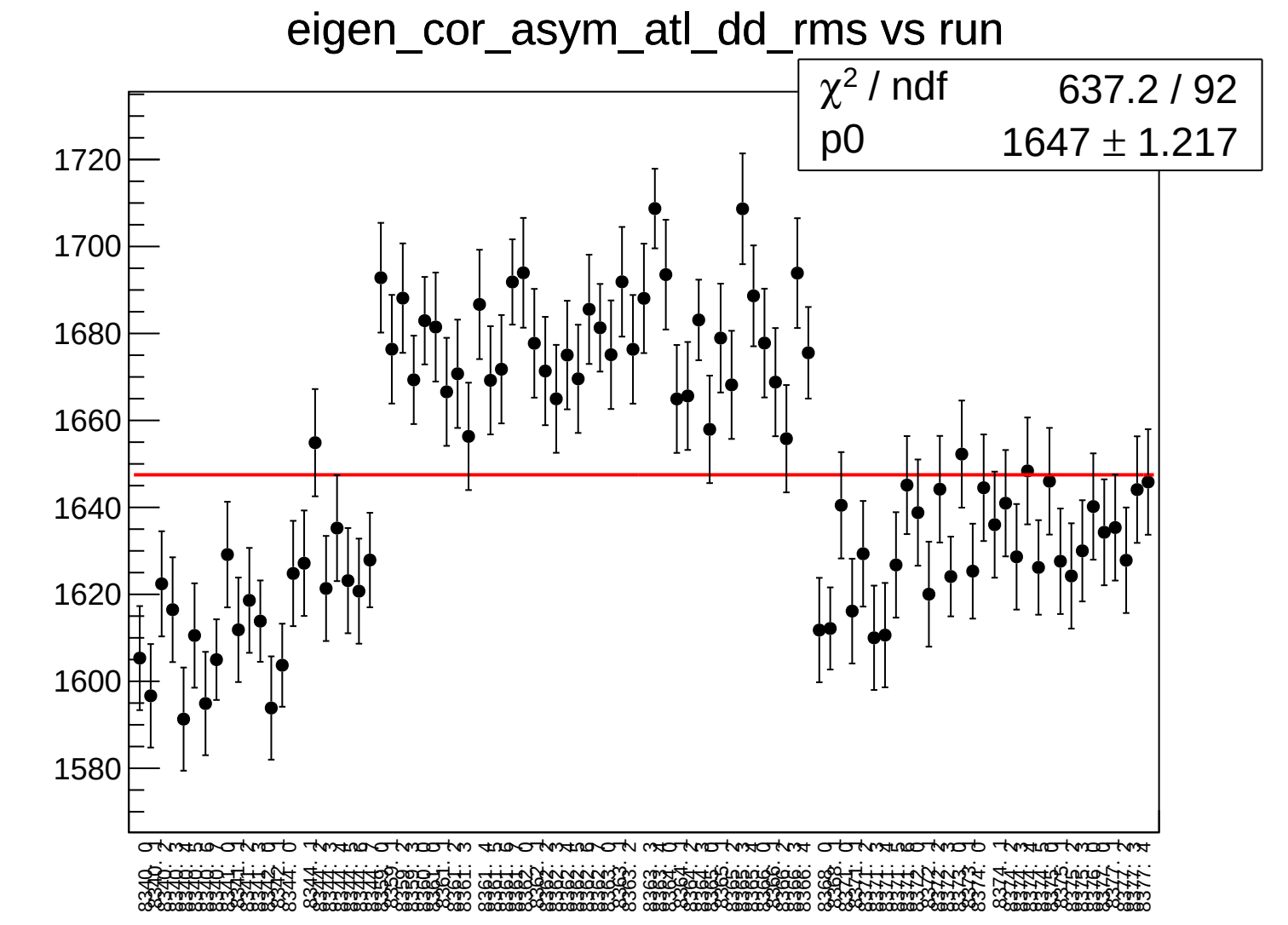

cor_asym_atl_dd_rms vs run
χ² / ndf 637.2 / 92
p0 1647 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580

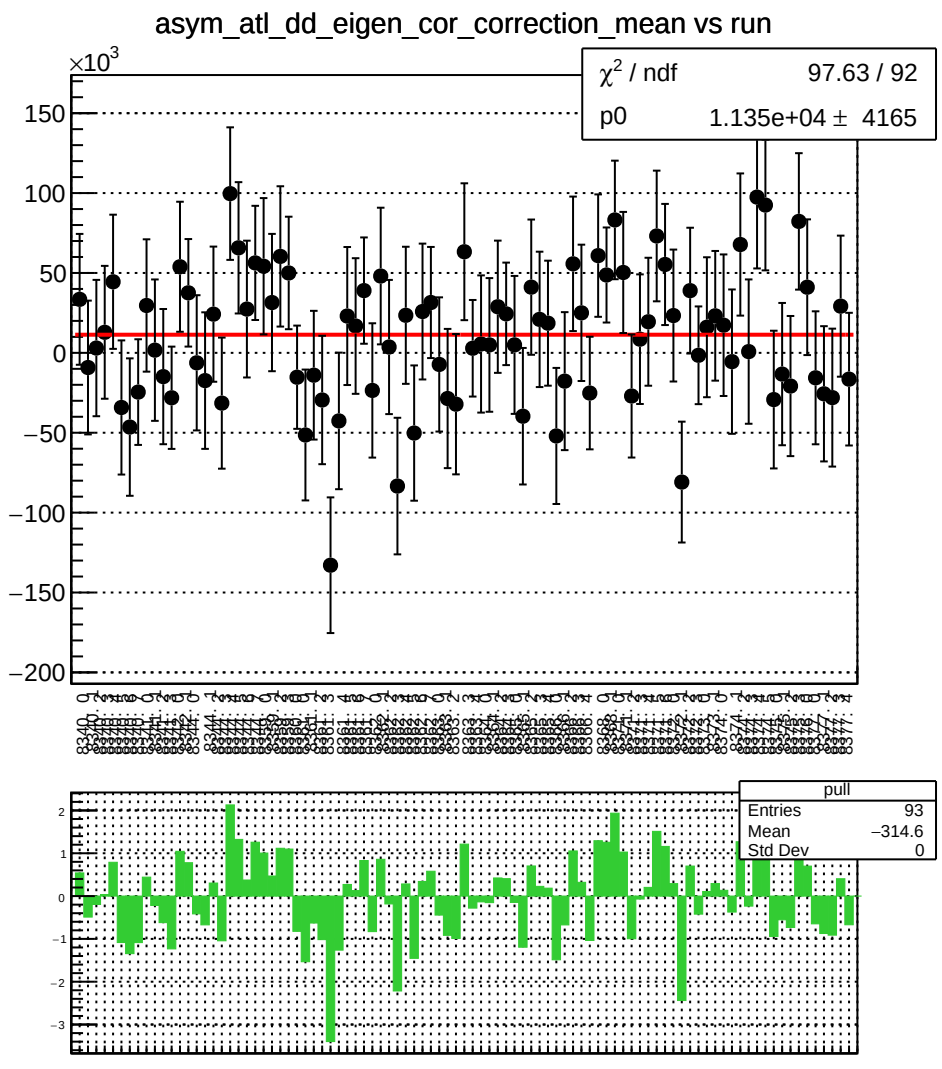

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 97.63 / 92
p0 1.135e+04 ± 4165
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −314.6
Std Dev 0
2
1
0
−1
−2
−3

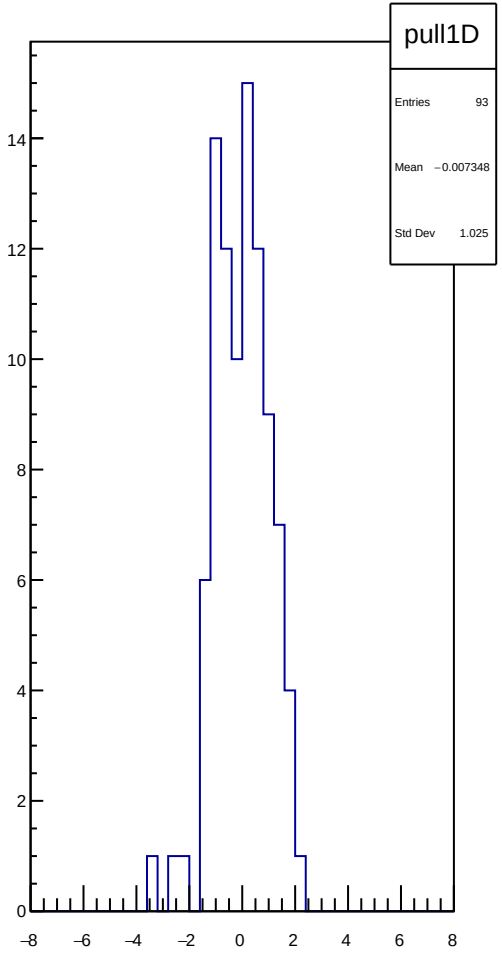

pull1D
Entries 93
Mean −0.007348
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_cor_correction_rms vs run
χ² / ndf 3126 / 92
p0 3985 ± 2.945
4400
4200
4000
3800
3600


eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 116.7 / 92
p0 57.54 ± 1721
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −740.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003139
Std Dev 1.12
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 637.2 / 92
p0 1647 ± 1.217
1720
1700
1680
1660
1640
1620
1600
1580


asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.63 / 92
p0 1.135e+04 ± 4165
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −314.6
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.007348
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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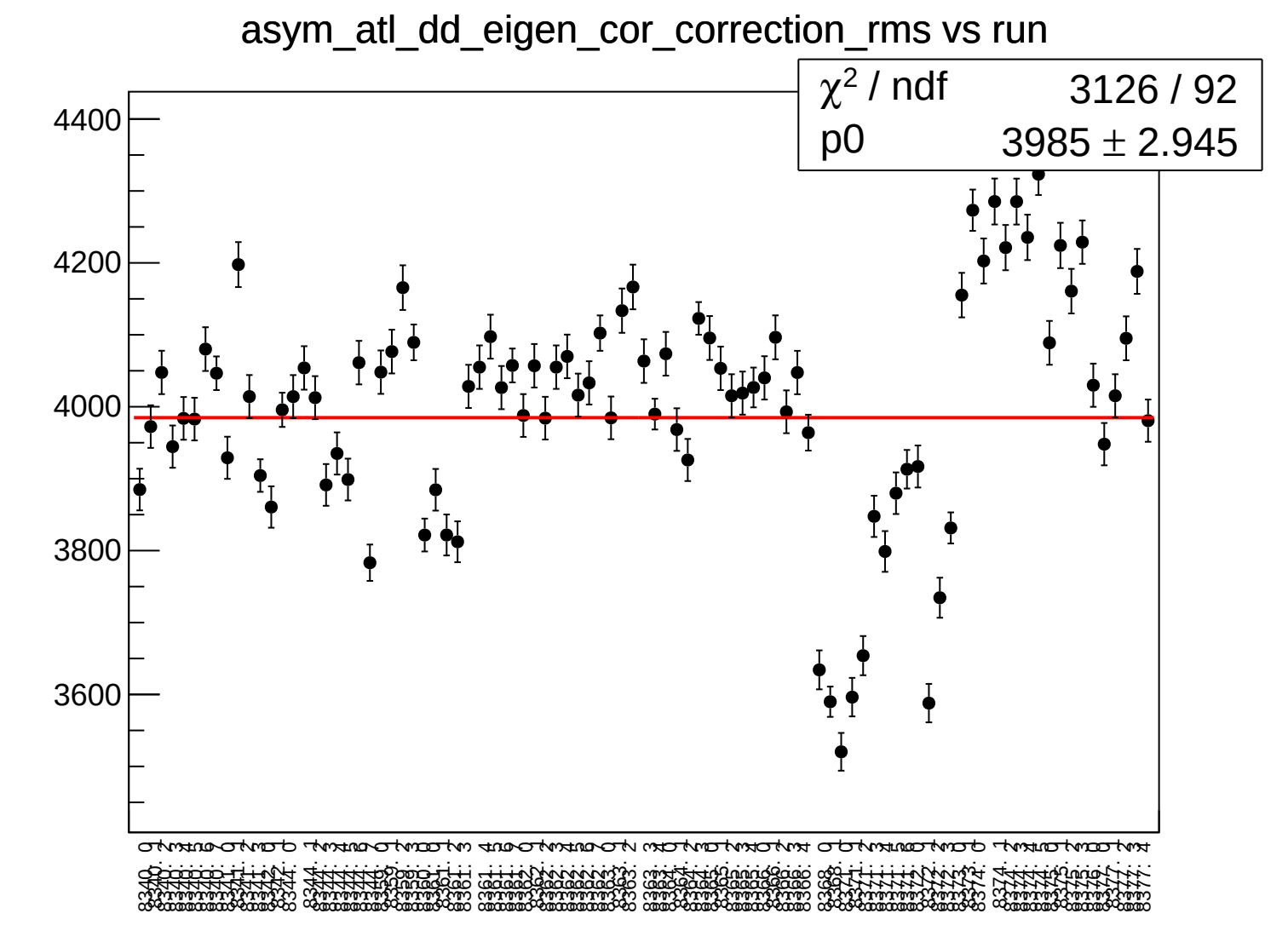
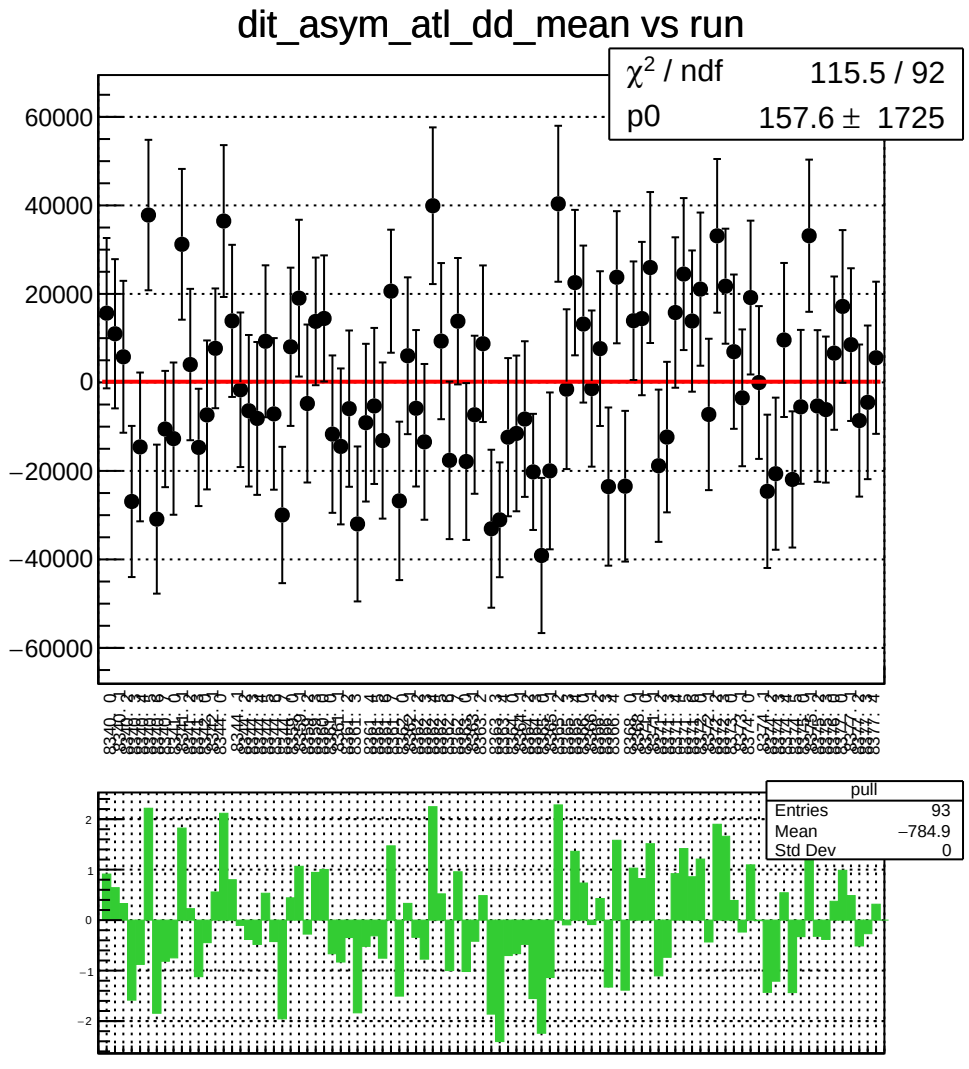
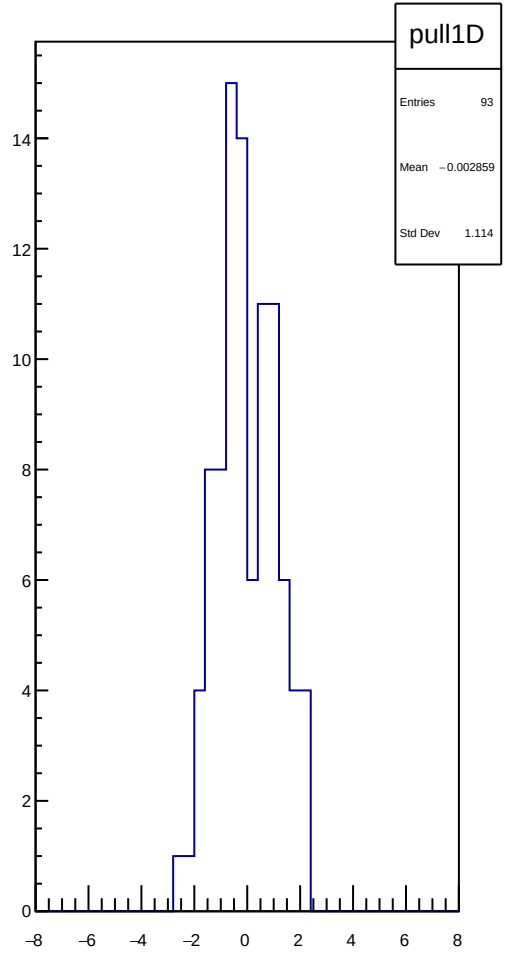
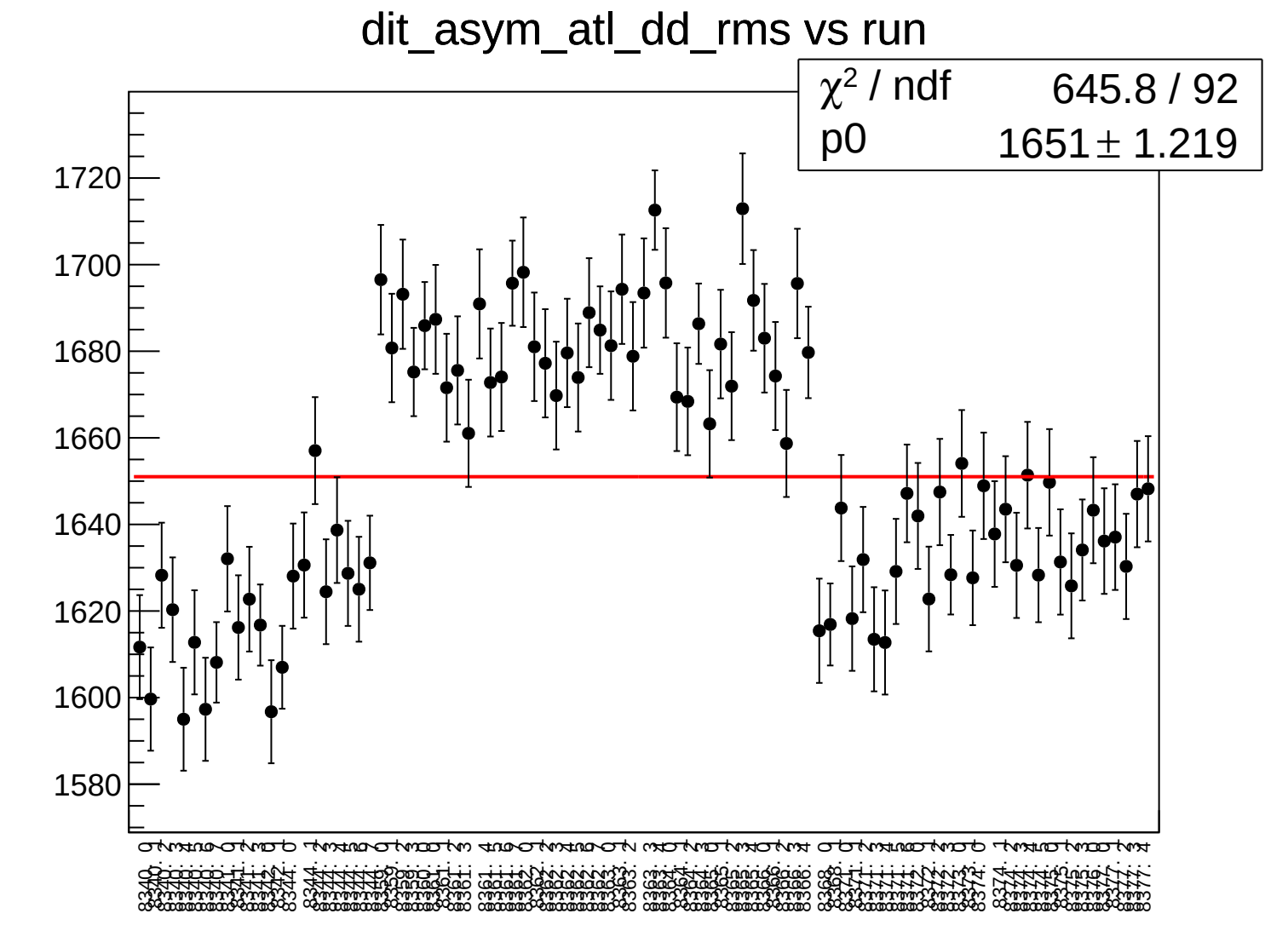
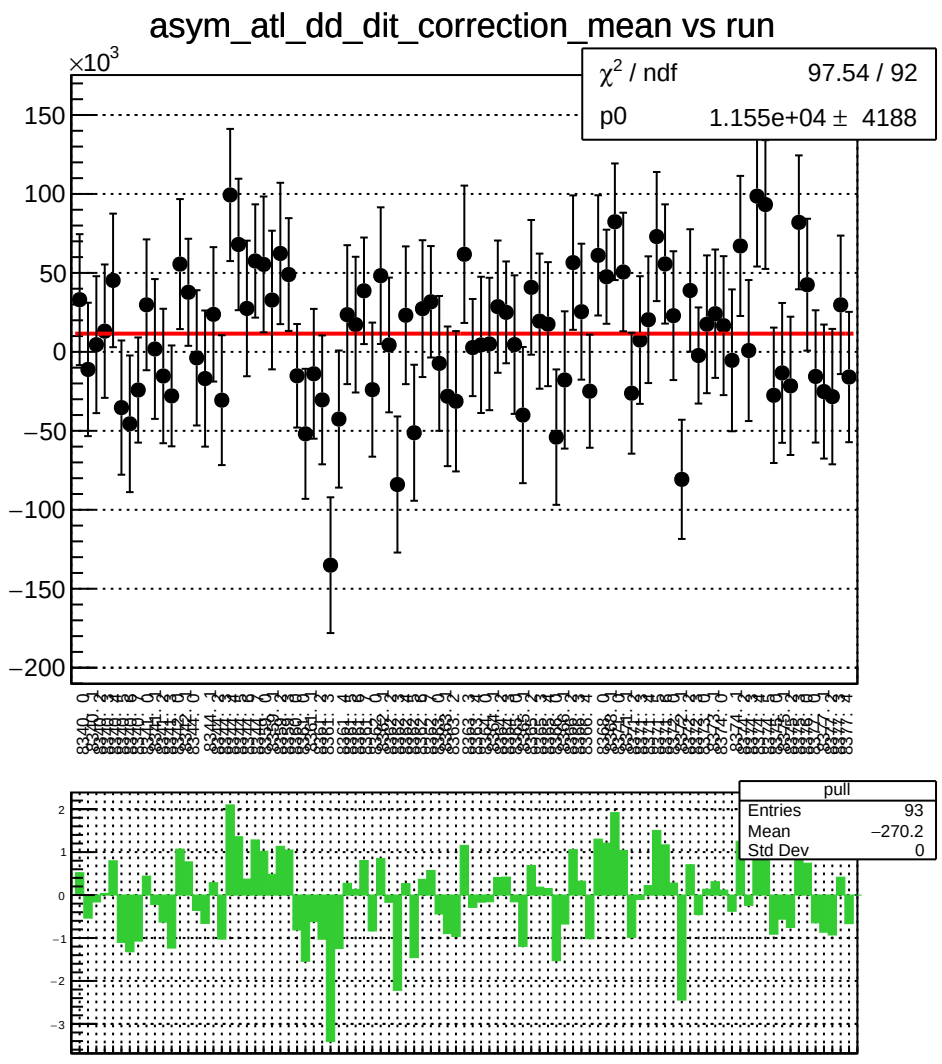
2
4
6
8

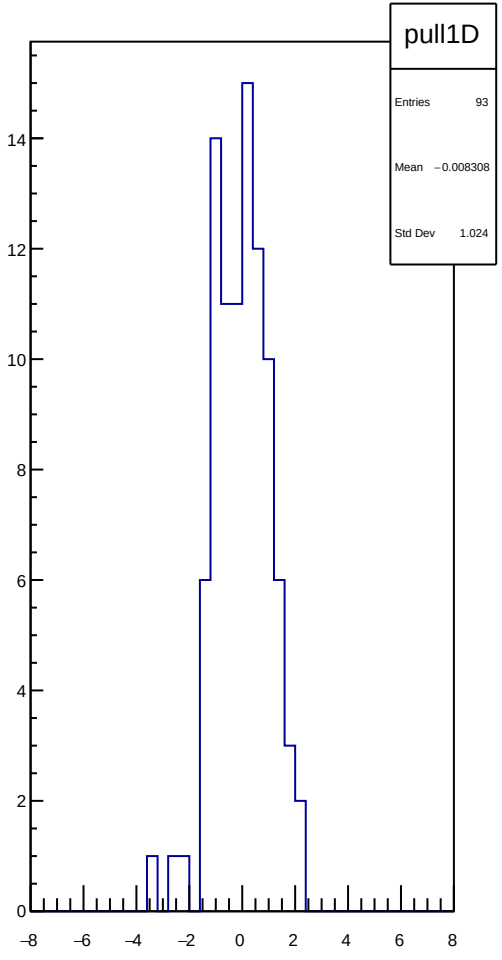

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 3126 / 92
p0 3985 ± 2.945
4400
4200
4000
3800
3600

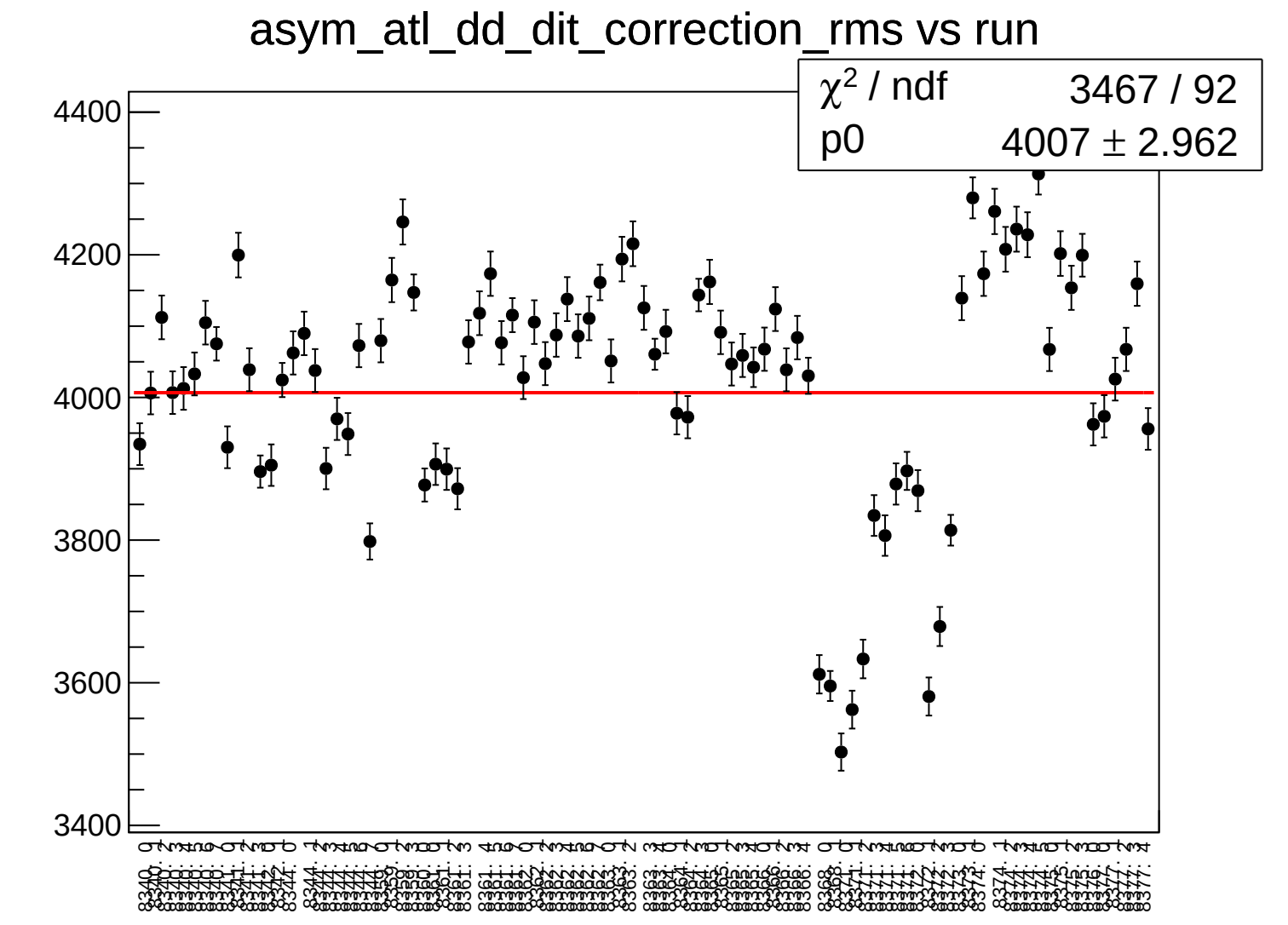

dit_asym_atl_dd_mean vs run
χ² / ndf 115.5 / 92
p0 157.6 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −784.9
Std Dev 0
2
1
0
−1
−2

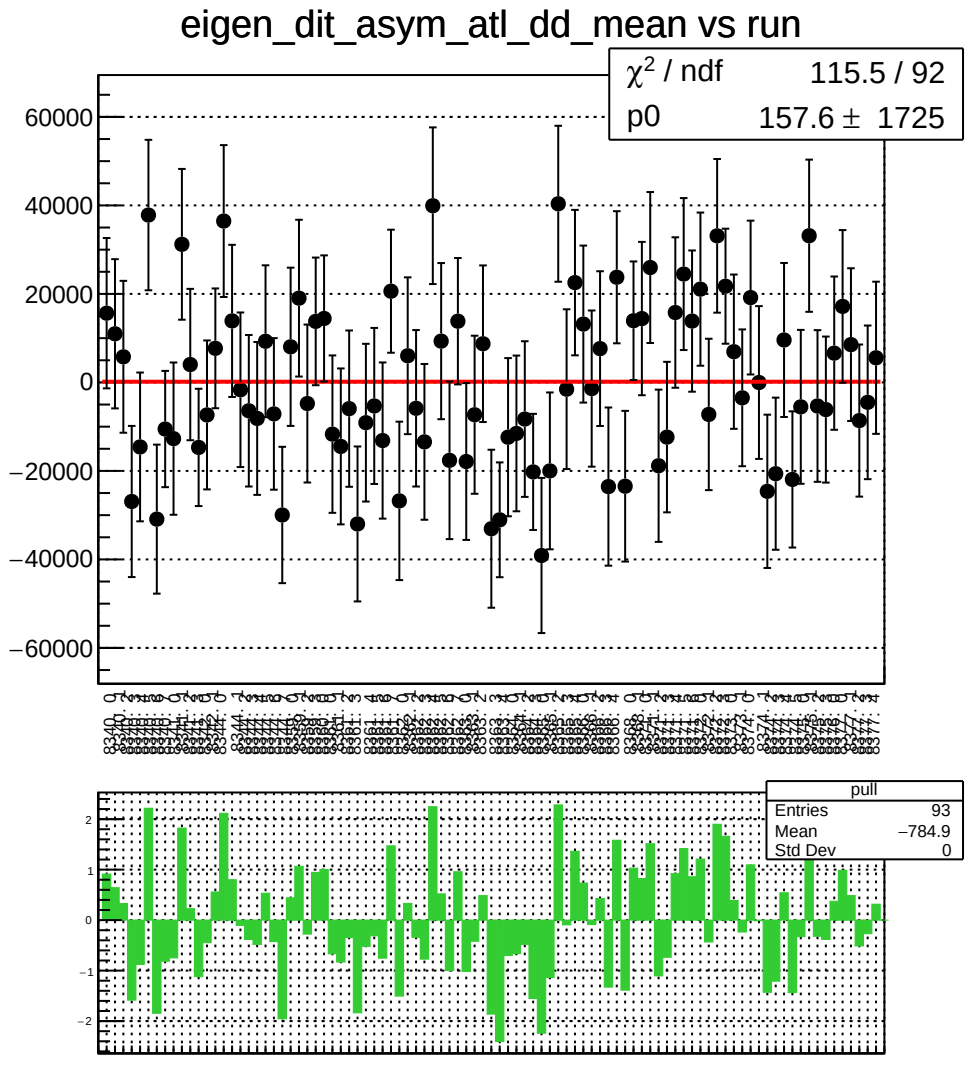

pull1D
Entries 93
Mean −0.002859
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

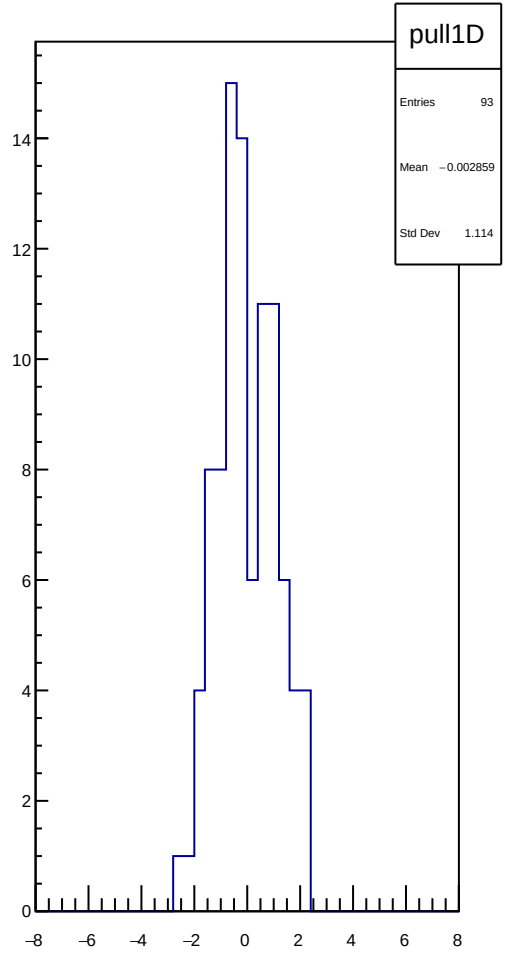

dit_asym_atl_dd_rms vs run
χ² / ndf 645.8 / 92
p0 1651 ± 1.219
1720
1700
1680
1660
1640
1620
1600
1580

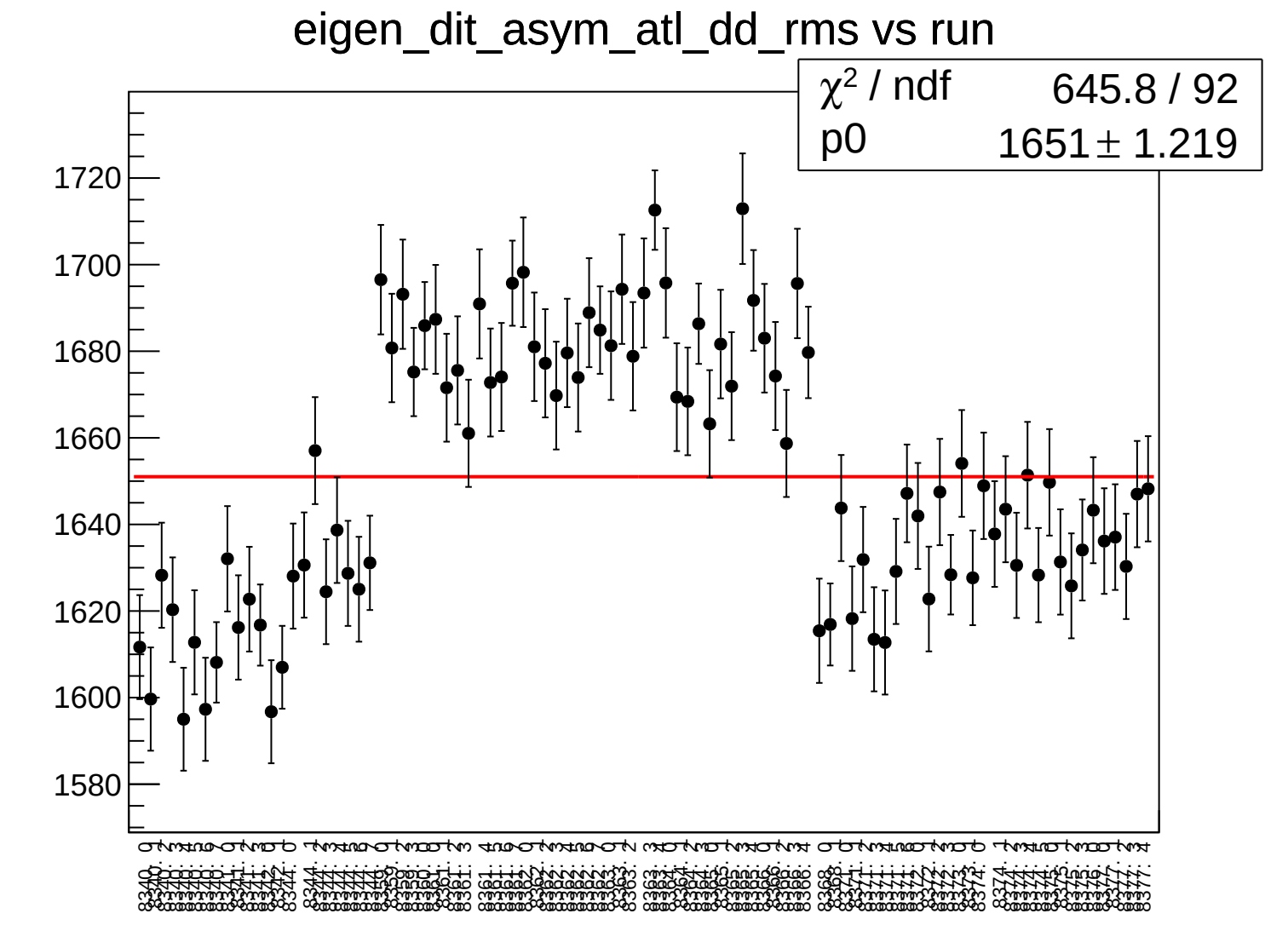

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 97.54 / 92
p0 1.155e+04 ± 4188
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −270.2
Std Dev 0
2
1
0
−1
−2
−3

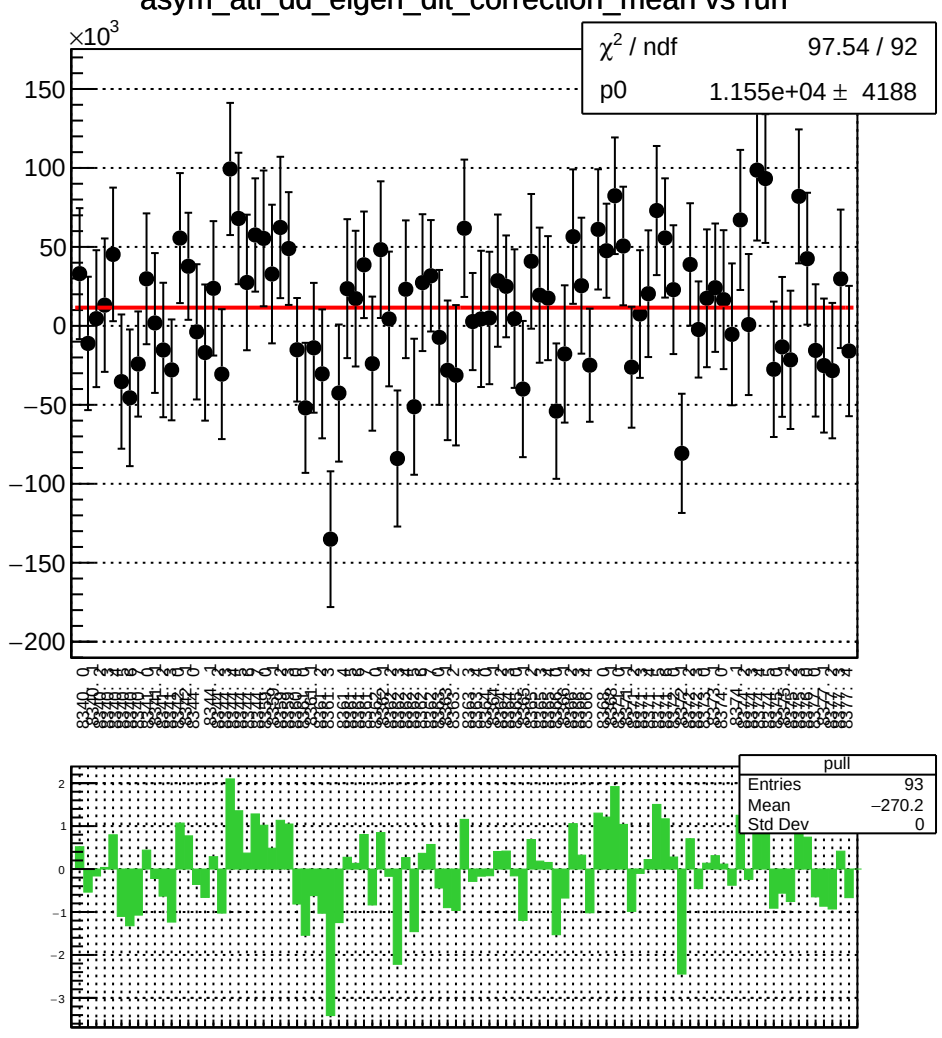

pull1D
Entries 93
Mean −0.008308
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

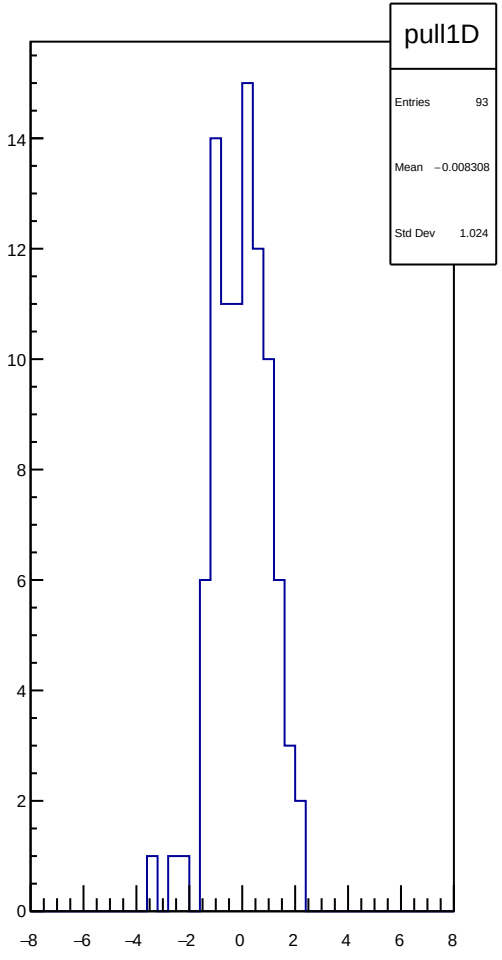

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 3467 / 92
p0 4007 ± 2.962
4400
4200
4000
3800
3600
3400

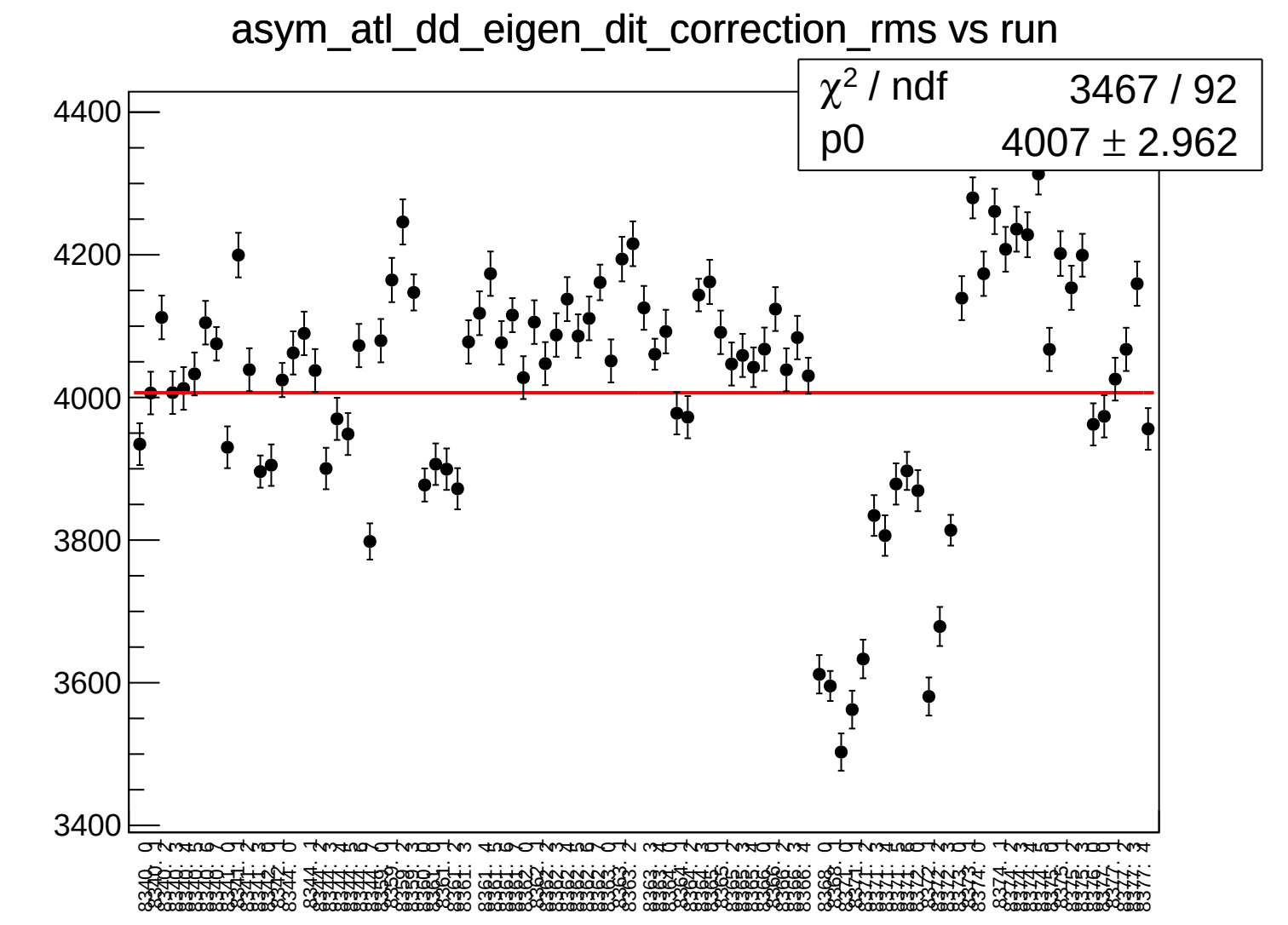

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 115.5 / 92
p0 157.6 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −784.9
Std Dev 0
2
1
0
−1
−2

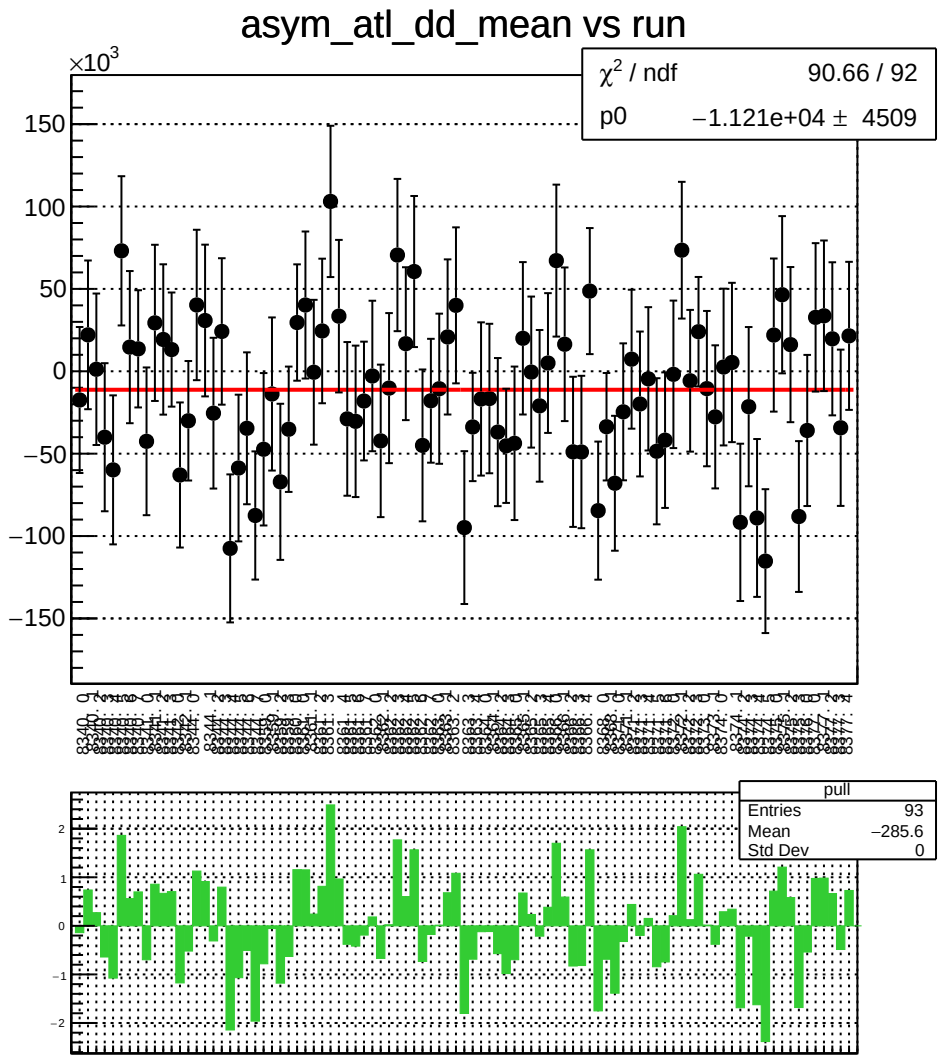

pull1D
Entries 93
Mean −0.002859
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

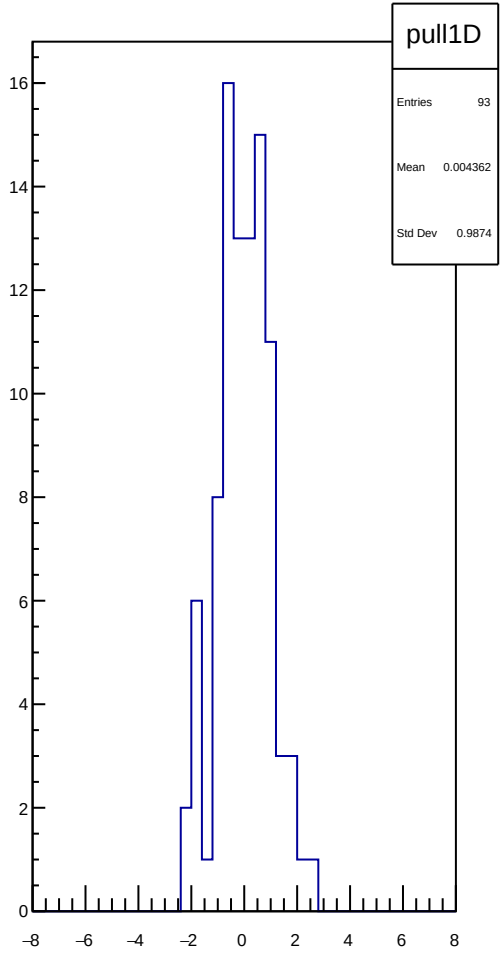

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 645.8 / 92
p0 1651 ± 1.219
1720
1700
1680
1660
1640
1620
1600
1580

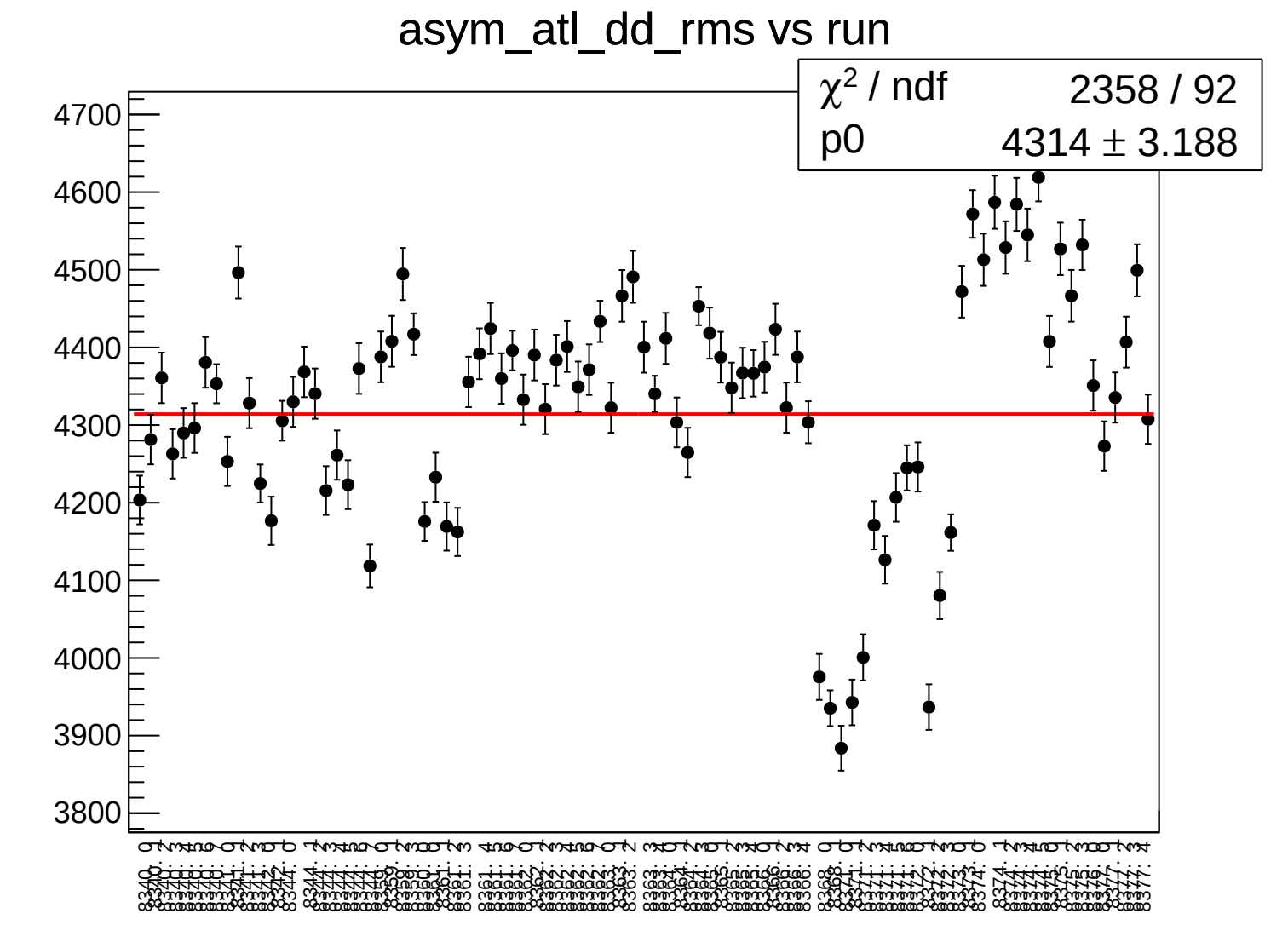

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.54 / 92
p0 1.155e+04 ± 4188
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −270.2
Std Dev 0
2
1
0
−1
−2
−3

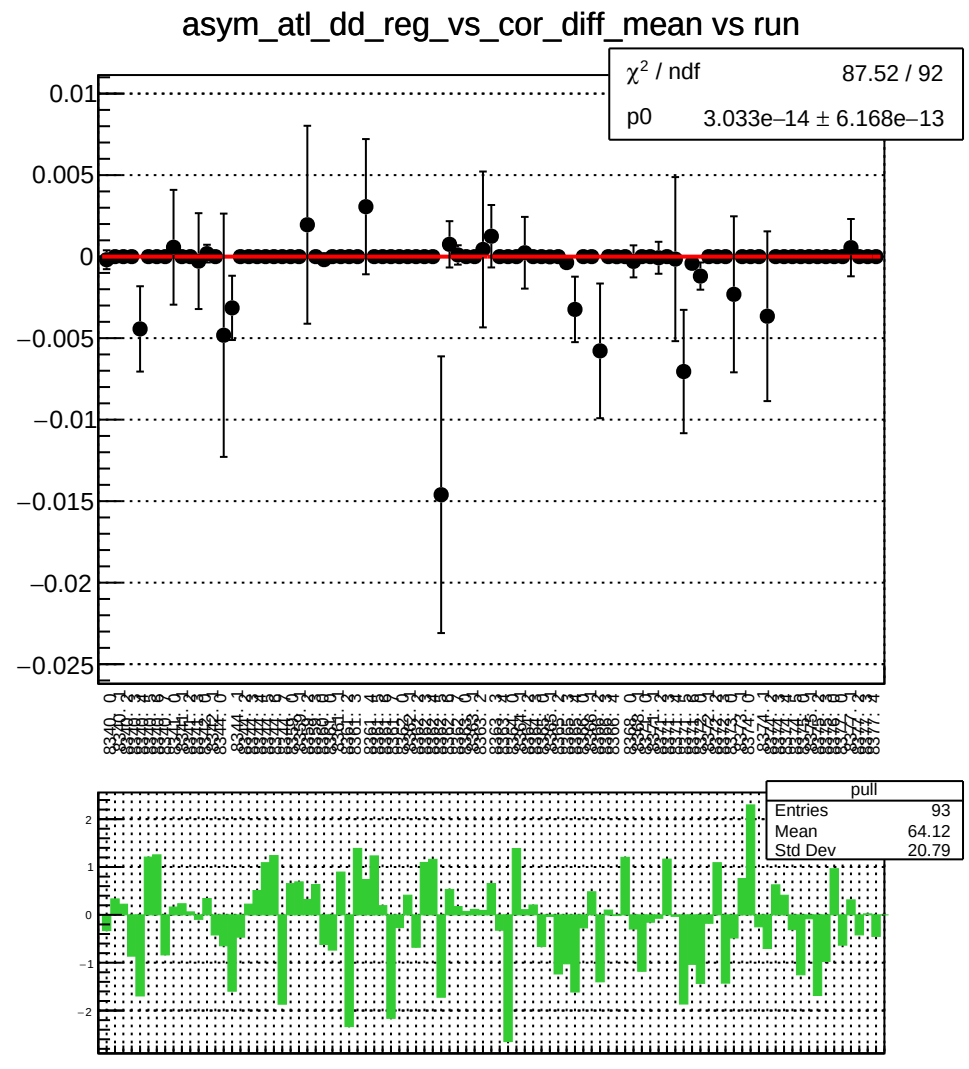

pull1D
Entries 93
Mean −0.008308
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

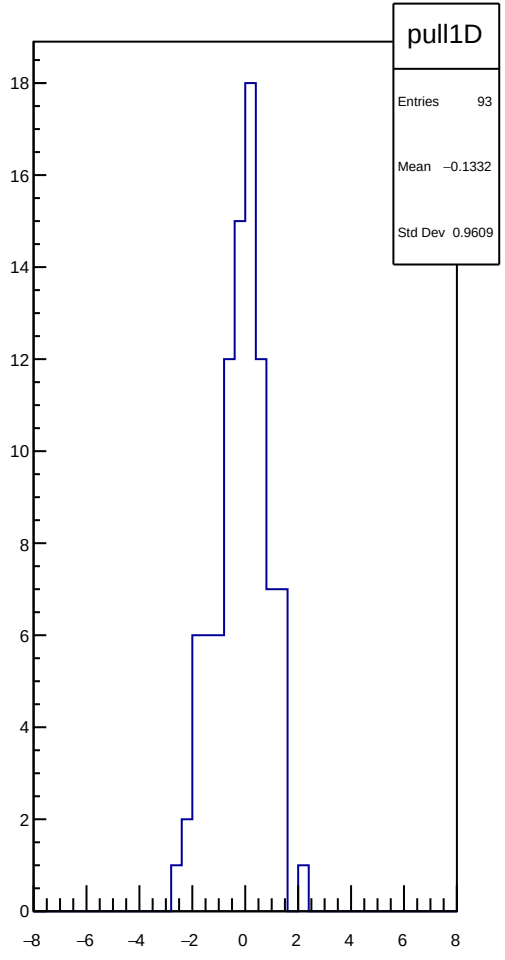

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 3467 / 92
p0 4007 ± 2.962
4400
4200
4000
3800
3600
3400

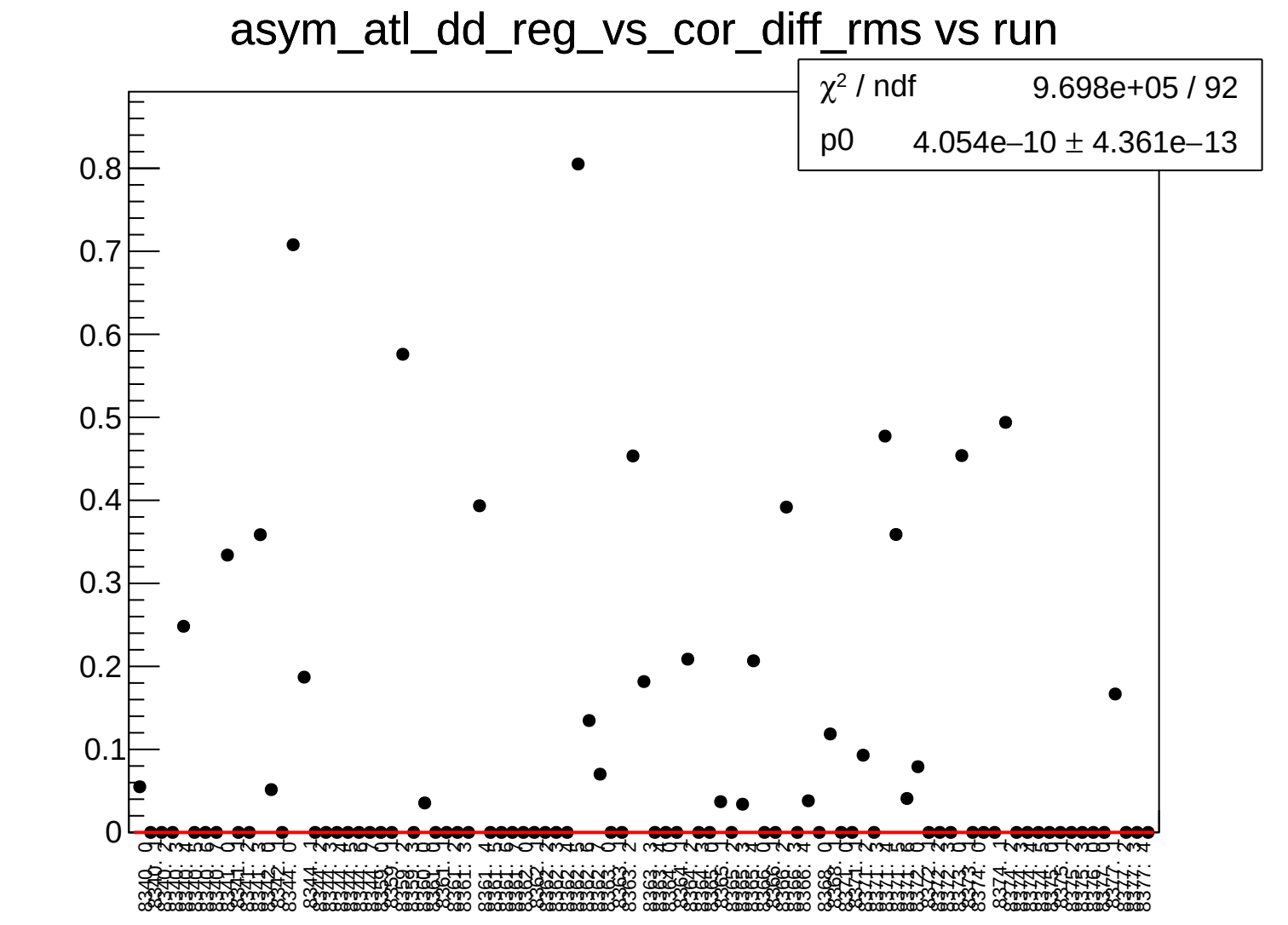

asym_atl_dd_mean vs run
×10^3
χ² / ndf 90.66 / 92
p0 −1.121e+04 ± 4509
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −285.6
Std Dev 0
2
1
0
−1
−2

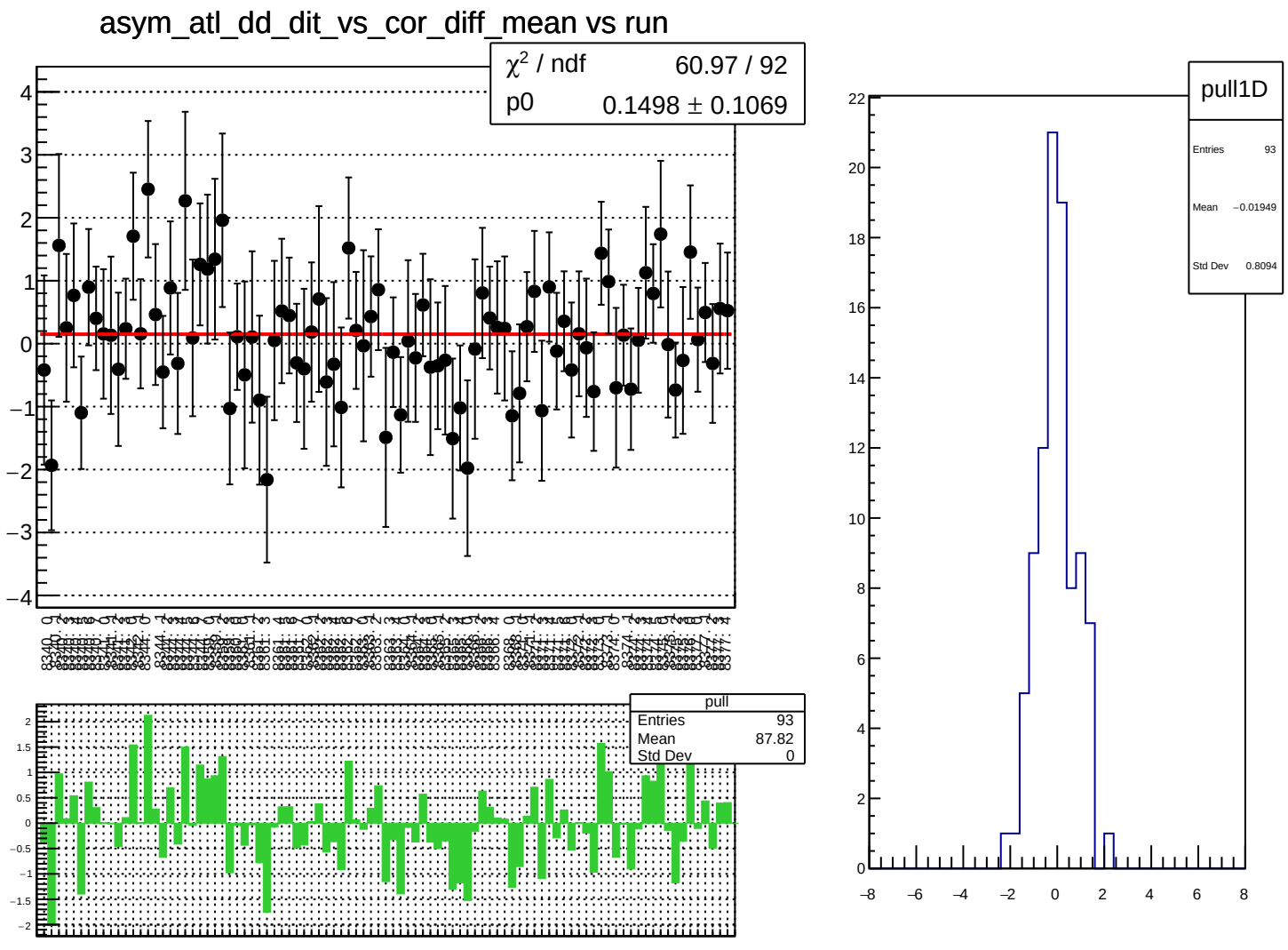

pull1D
Entries 93
Mean 0.004362
Std Dev 0.9874
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

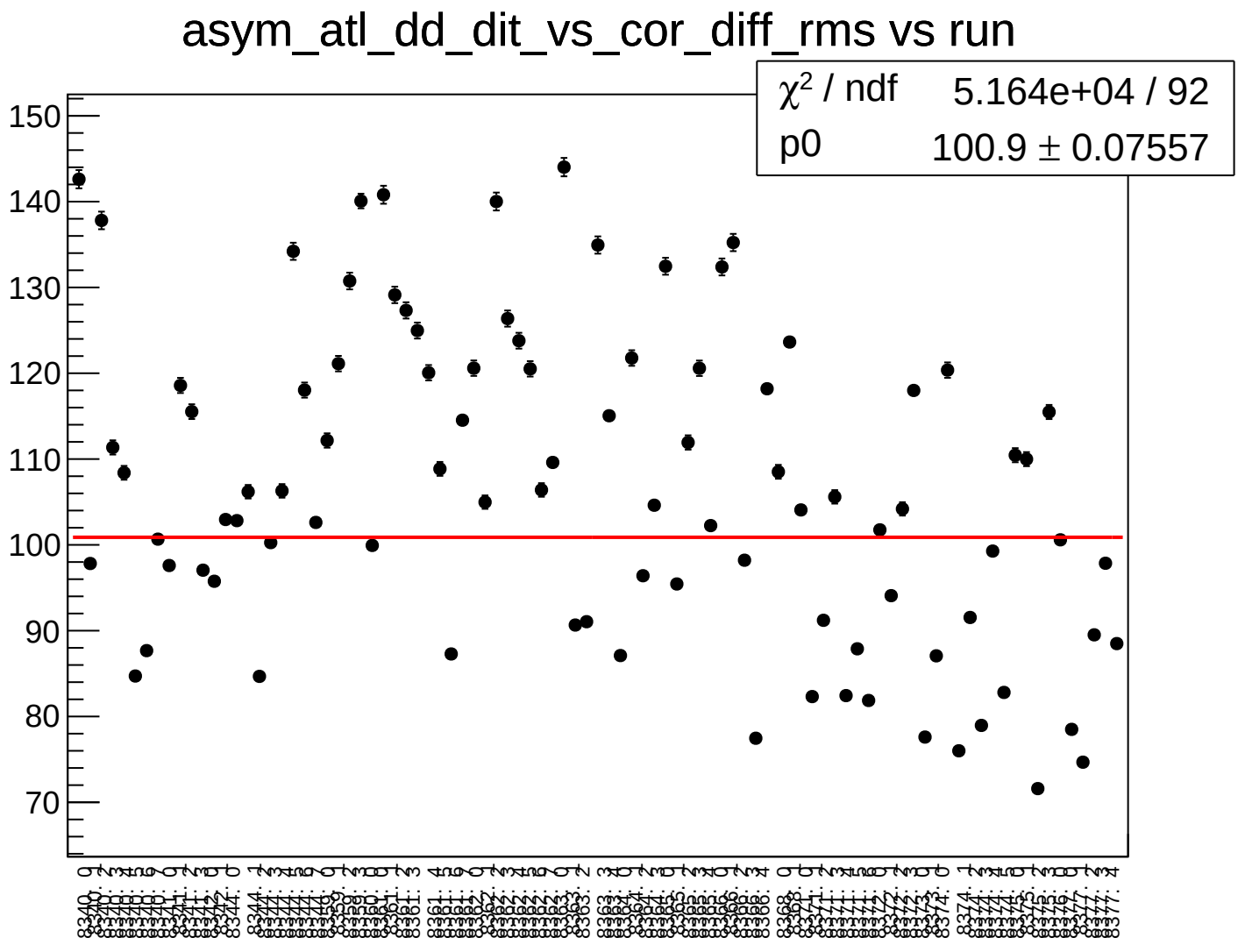

asym_atl_dd_rms vs run
χ² / ndf 2358 / 92
p0 4314 ± 3.188
4700
4600
4500
4400
4300
4200
4100
4000
3900
3800

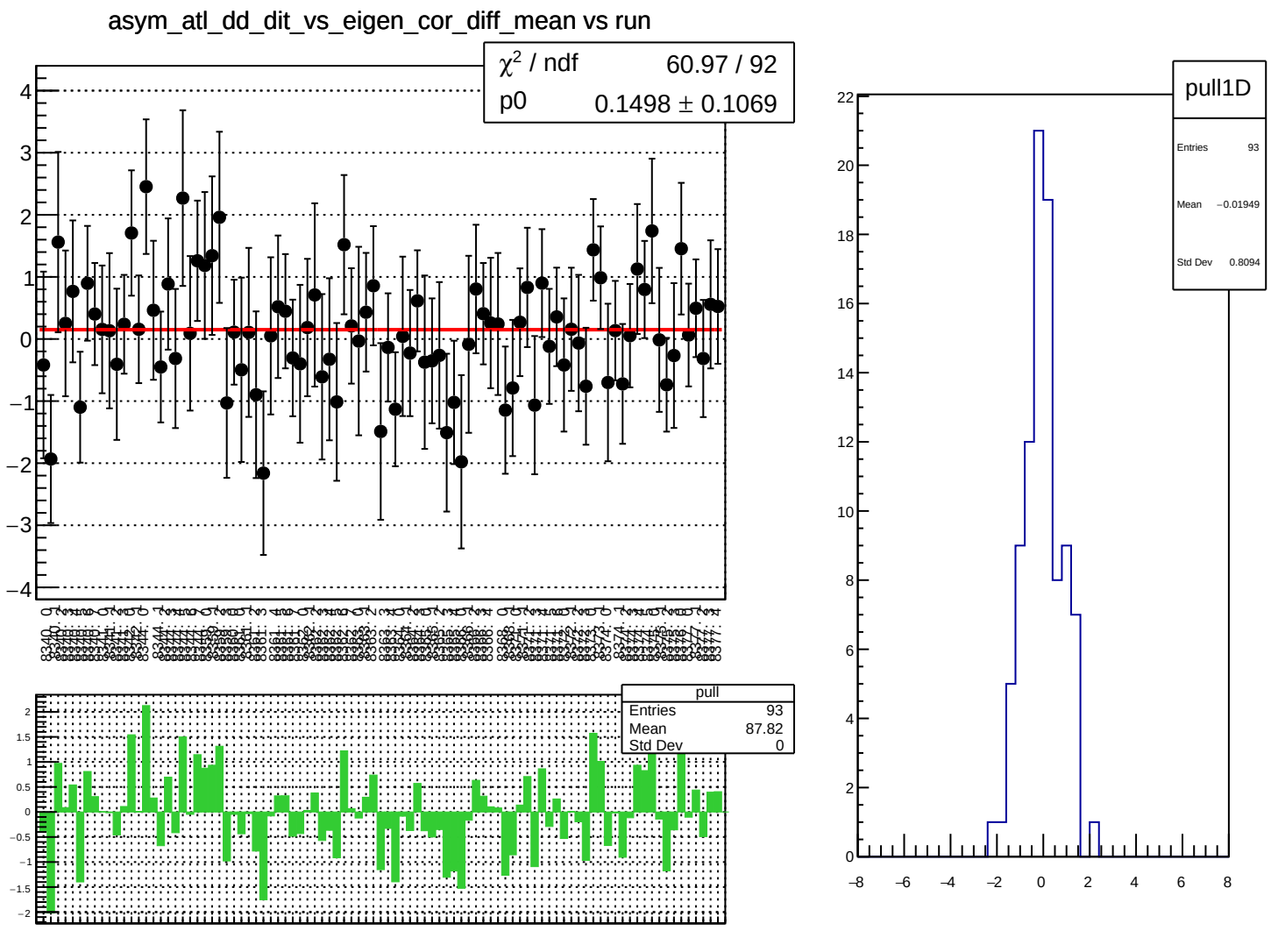

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.52 / 92
p0 3.033e−14 ± 6.168e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 93
Mean 64.12
Std Dev 20.79
2
1
0
−1
−2

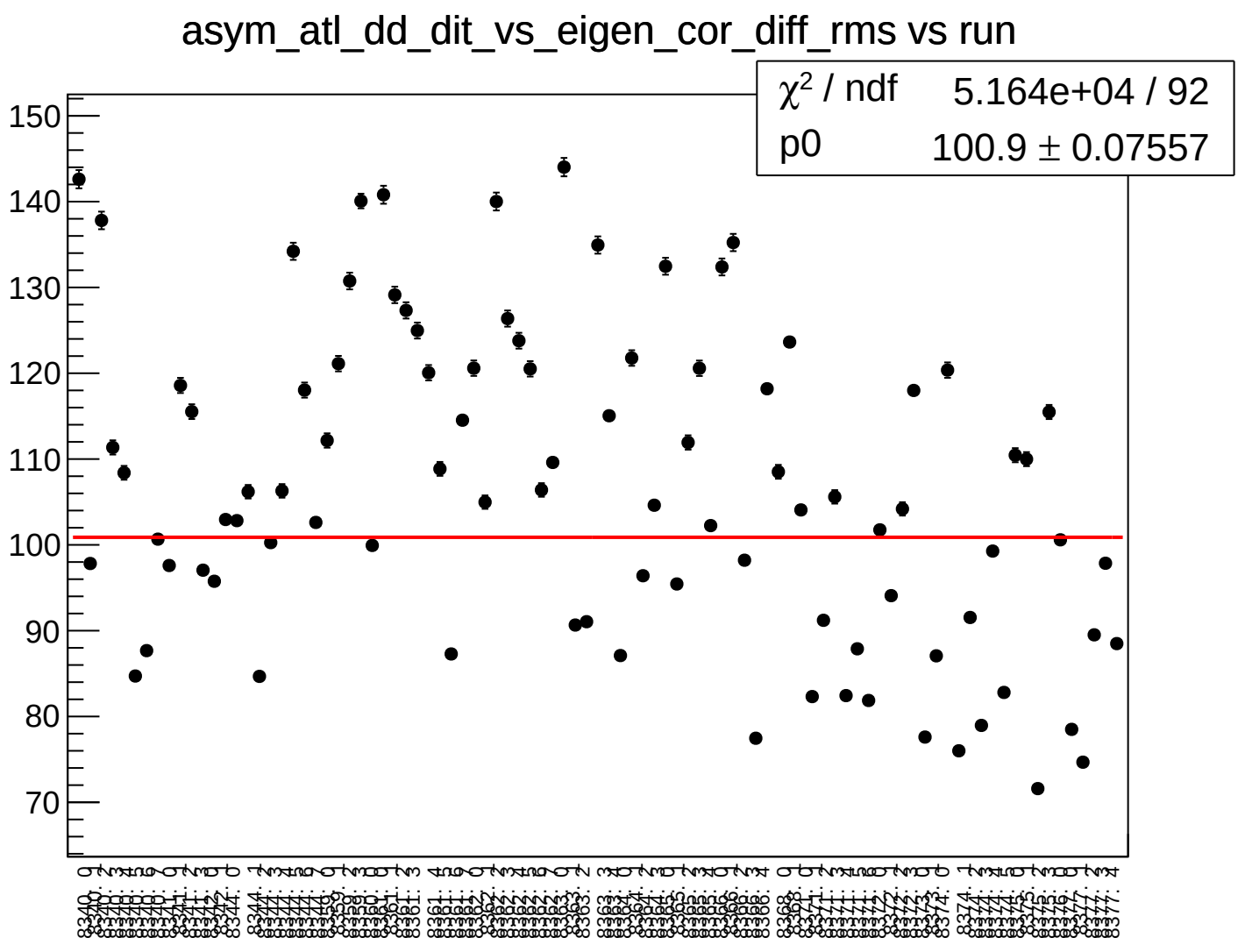

pull1D
Entries 93
Mean −0.1332
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

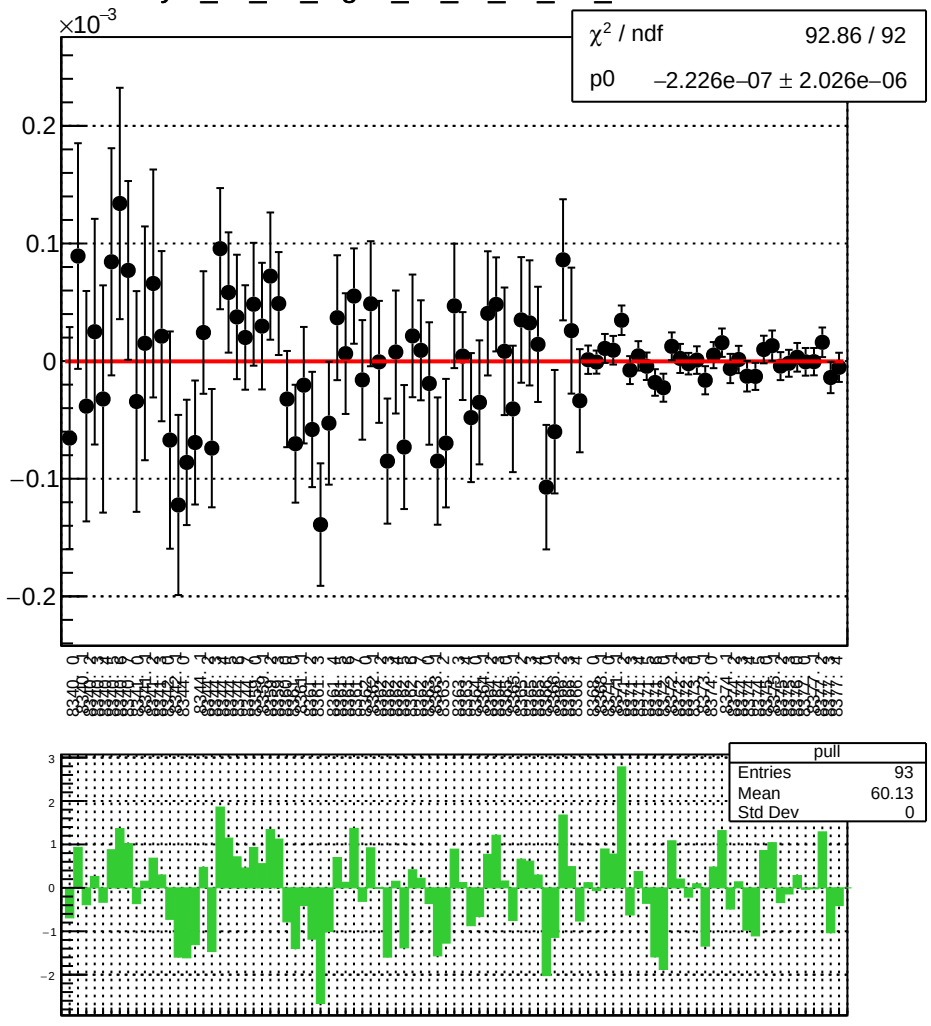

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.698e+05 / 92
p0 4.054e−10 ± 4.361e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

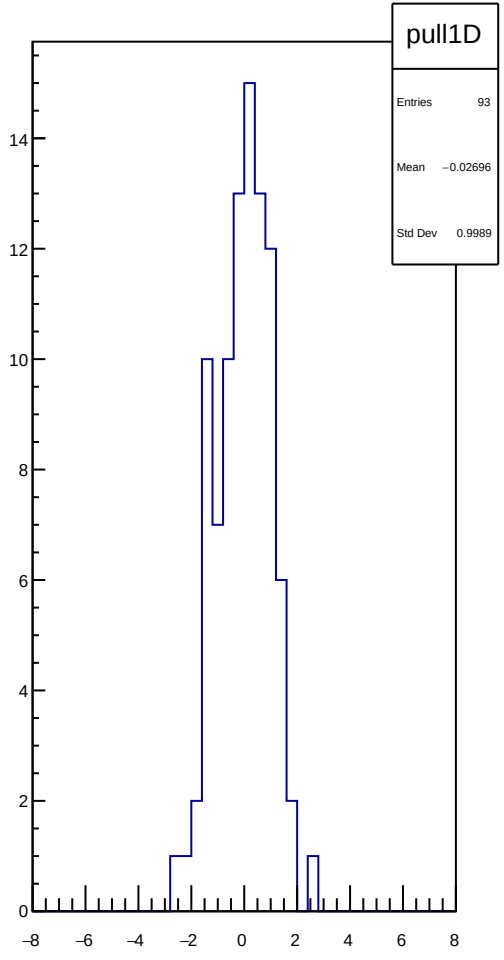

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 60.97 / 92
p0 0.1498 ± 0.1069
pull
Entries 93
Mean 87.82
Std Dev 0
pull1D
Entries 93
Mean −0.01949
Std Dev 0.8094

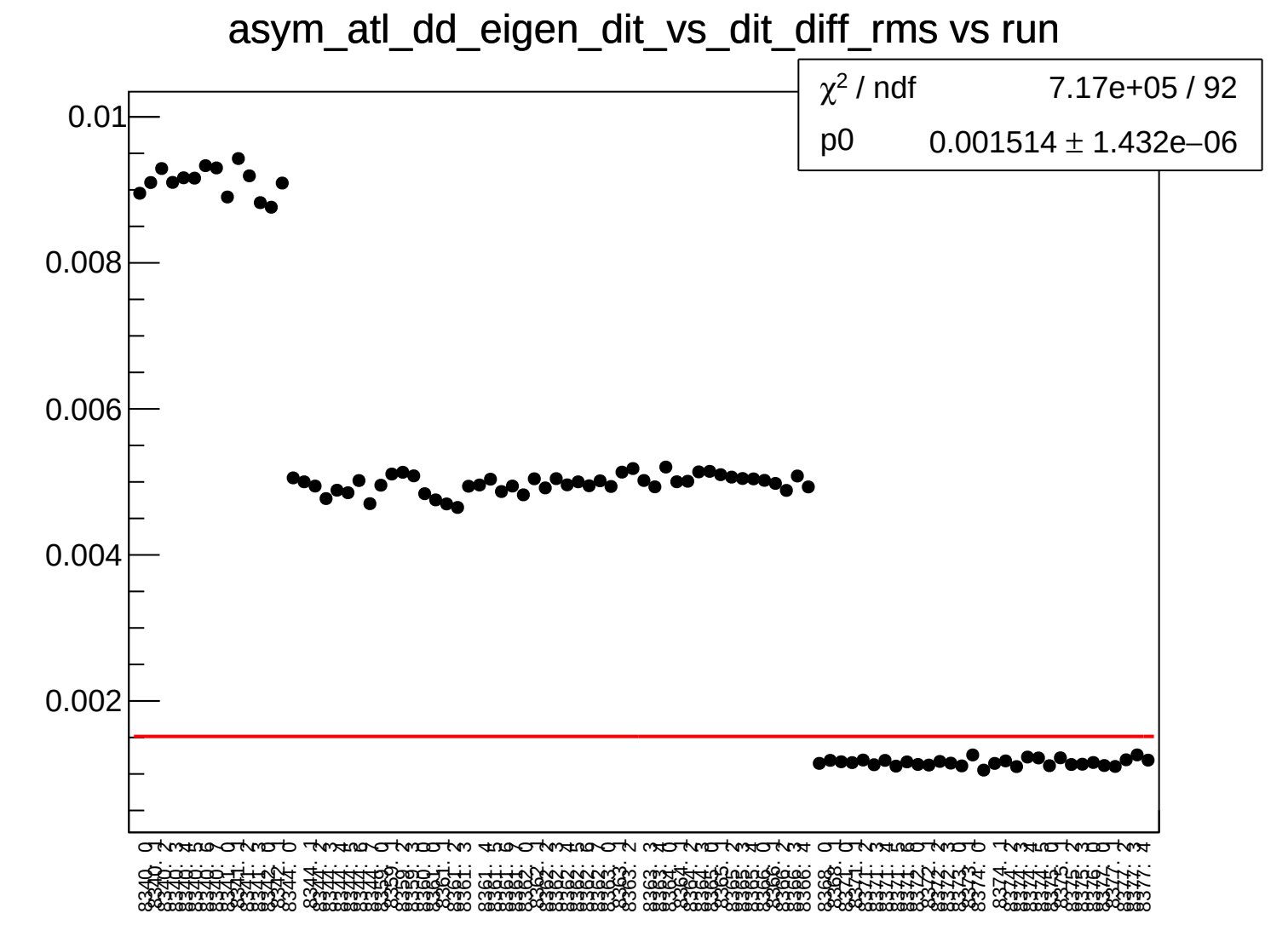

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.164e+04 / 92
p0 100.9 ± 0.07557
150
140
130
120
110
100
90
80
70

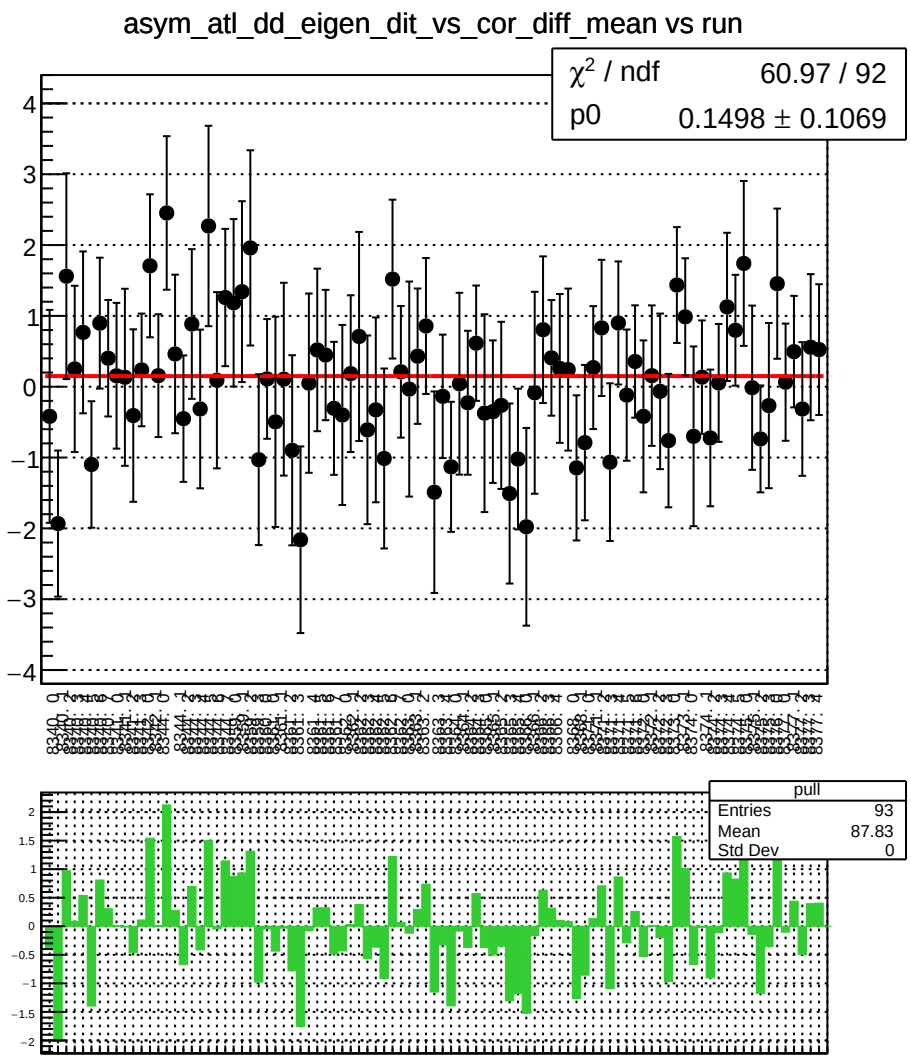

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.97 / 92
p0 0.1498 ± 0.1069
pull
Entries 93
Mean 87.82
Std Dev 0
pull1D
Entries 93
Mean −0.01949
Std Dev 0.8094

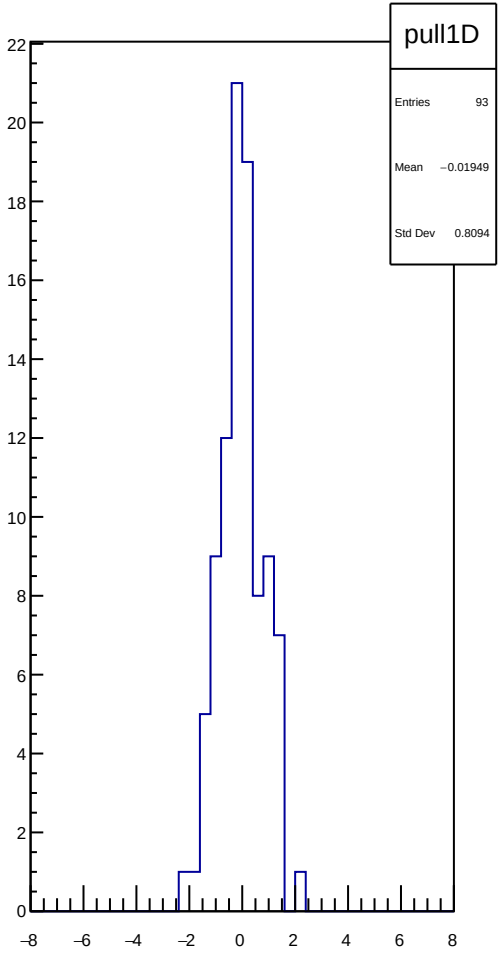

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.164e+04 / 92
p0 100.9 ± 0.07557
150
140
130
120
110
100
90
80
70

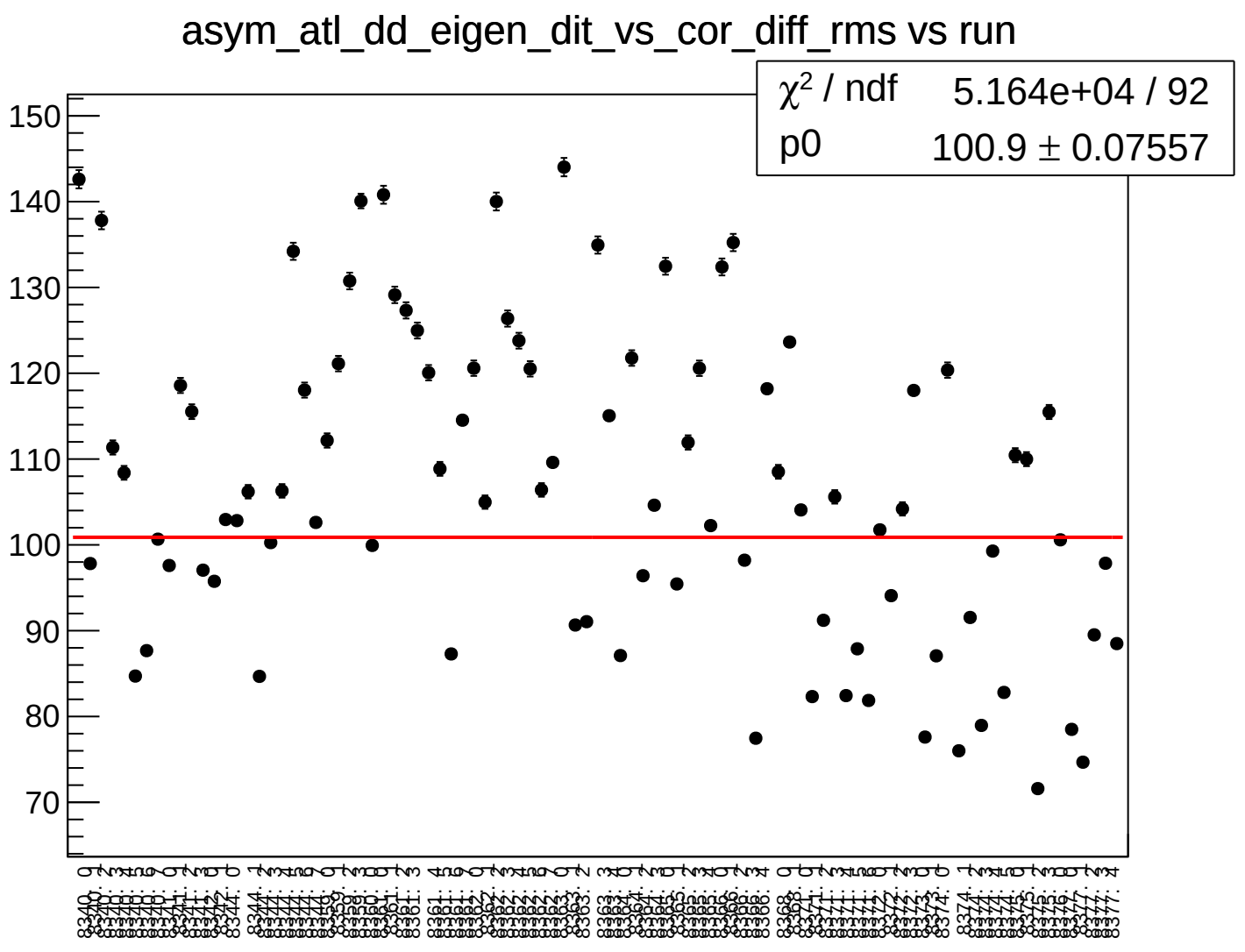

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.86 / 92
p0 −2.226e−07 ± 2.026e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 60.13
Std Dev 0
3
2
1
0
−1
−2

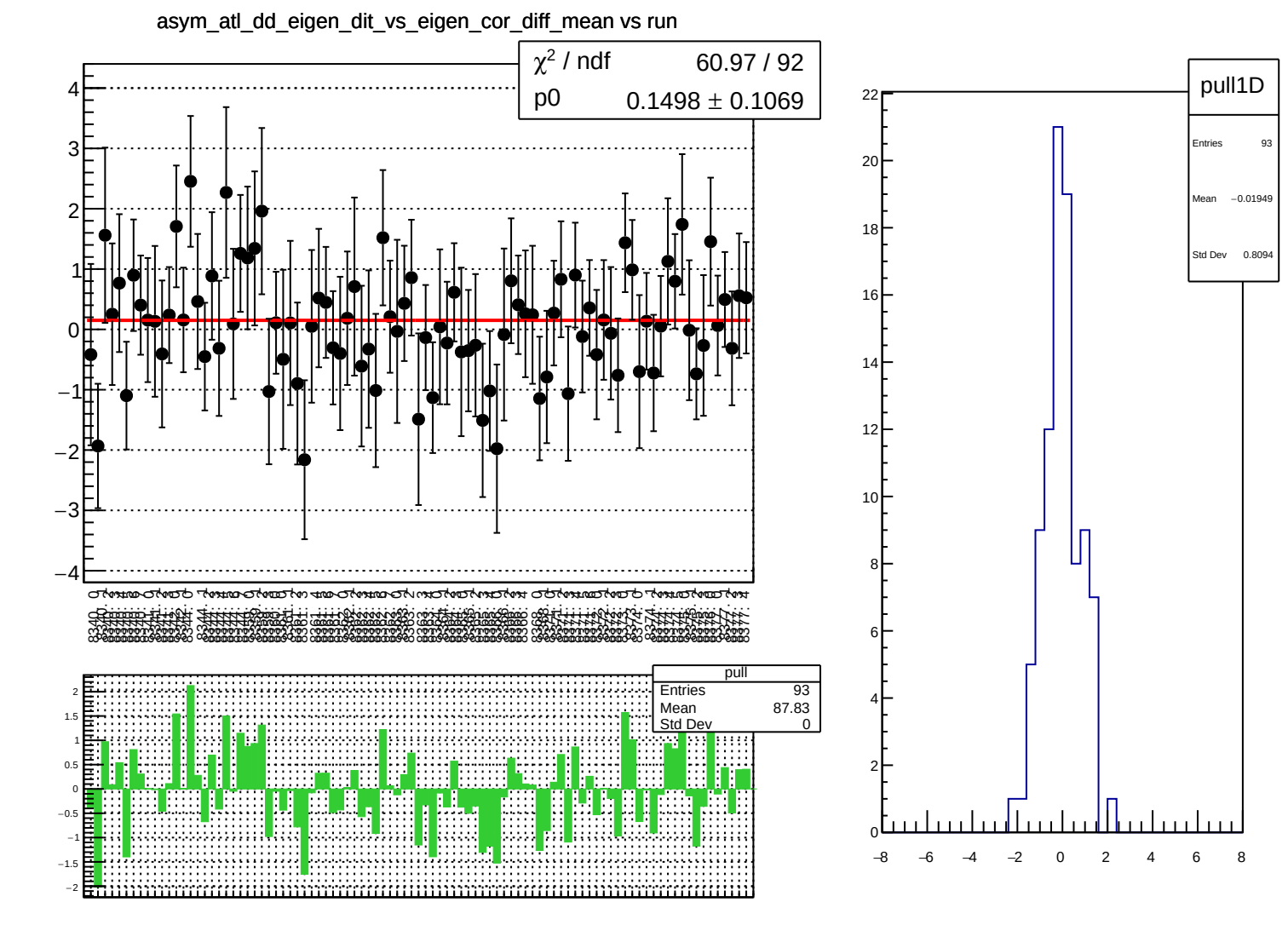

pull1D
Entries 93
Mean −0.02696
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

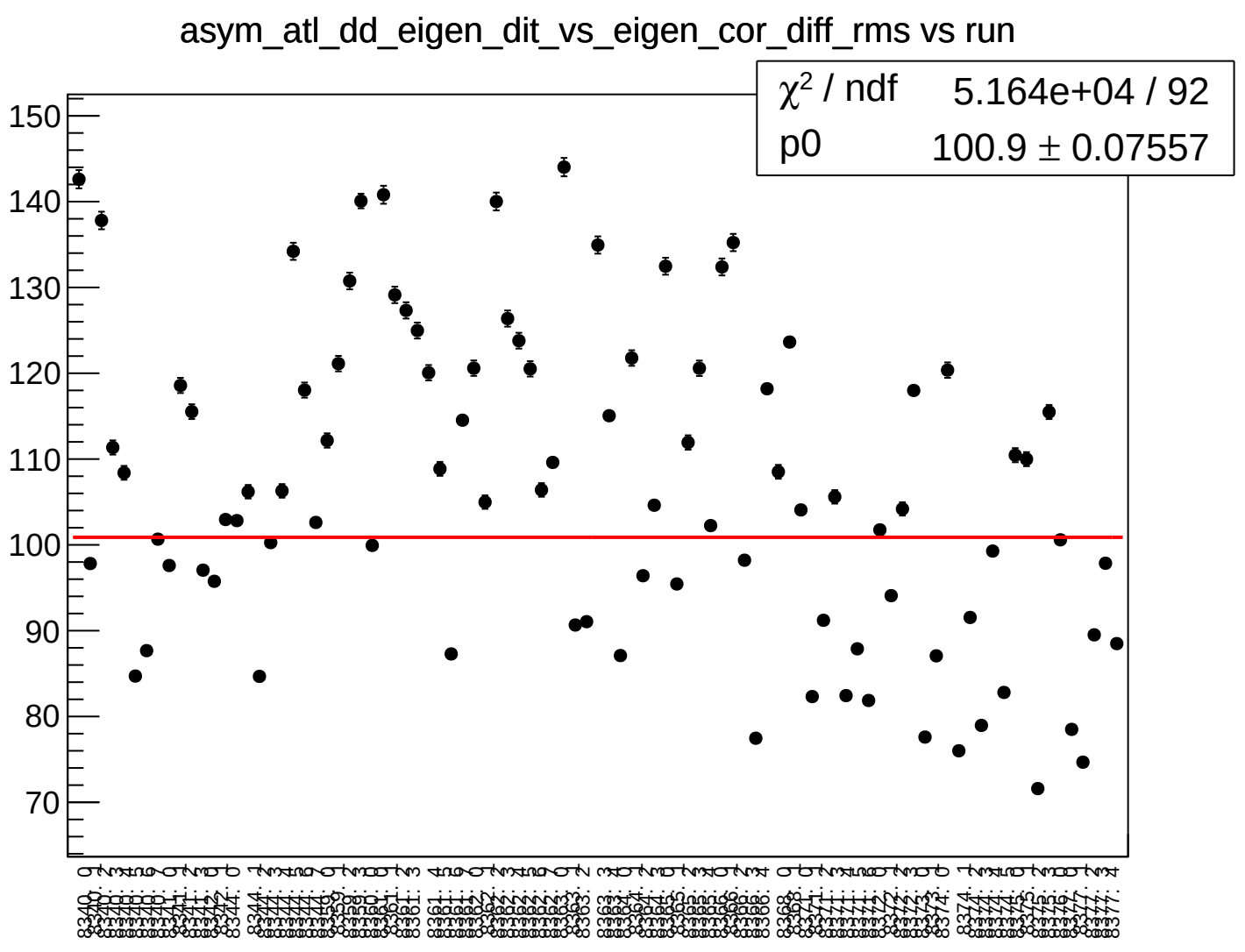

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.17e+05 / 92
p0 0.001514 ± 1.432e−06
0.01
0.008
0.006
0.004
0.002

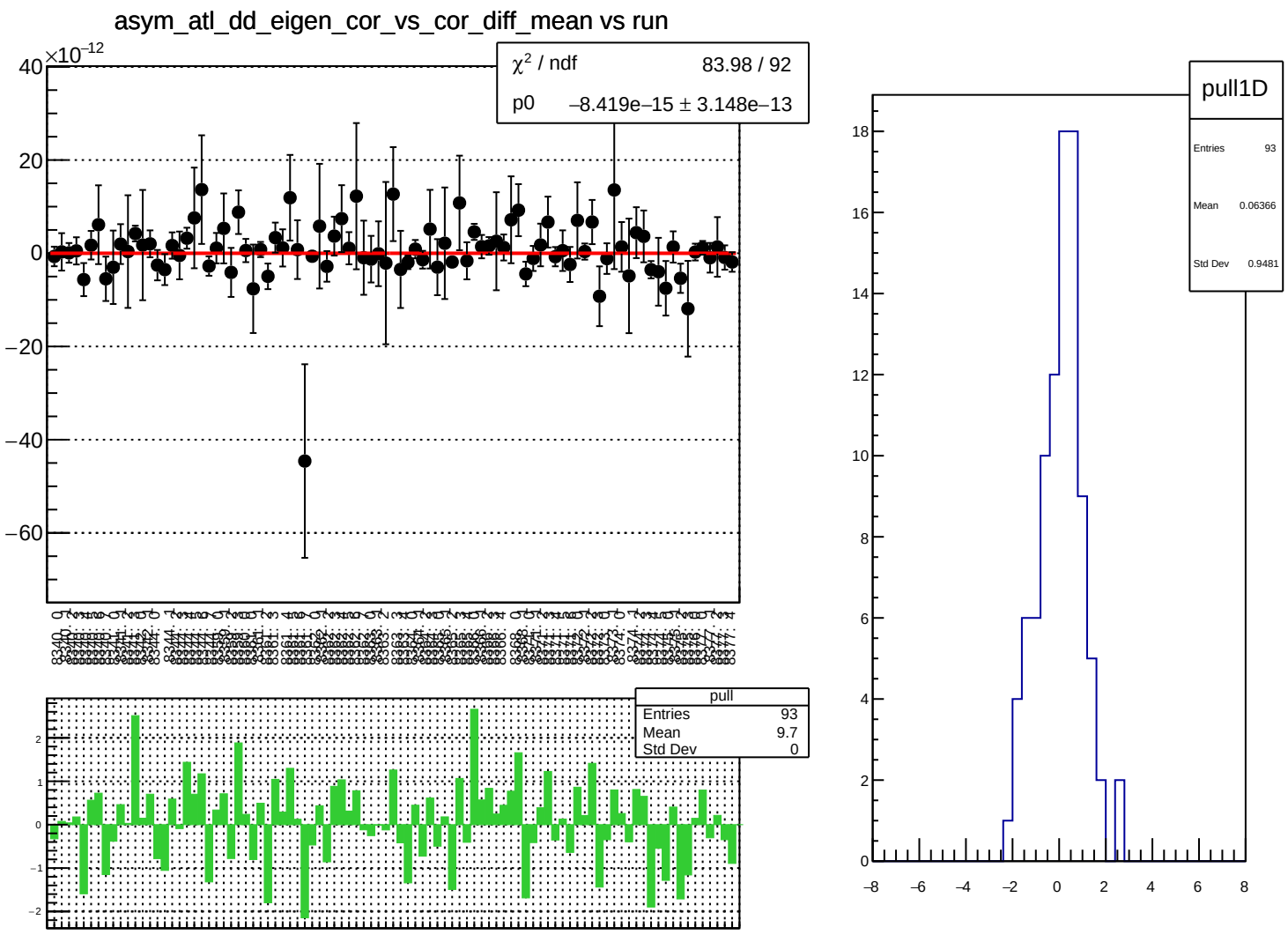

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 60.97 / 92
p0 0.1498 ± 0.1069
pull
Entries 93
Mean 87.83
Std Dev 0

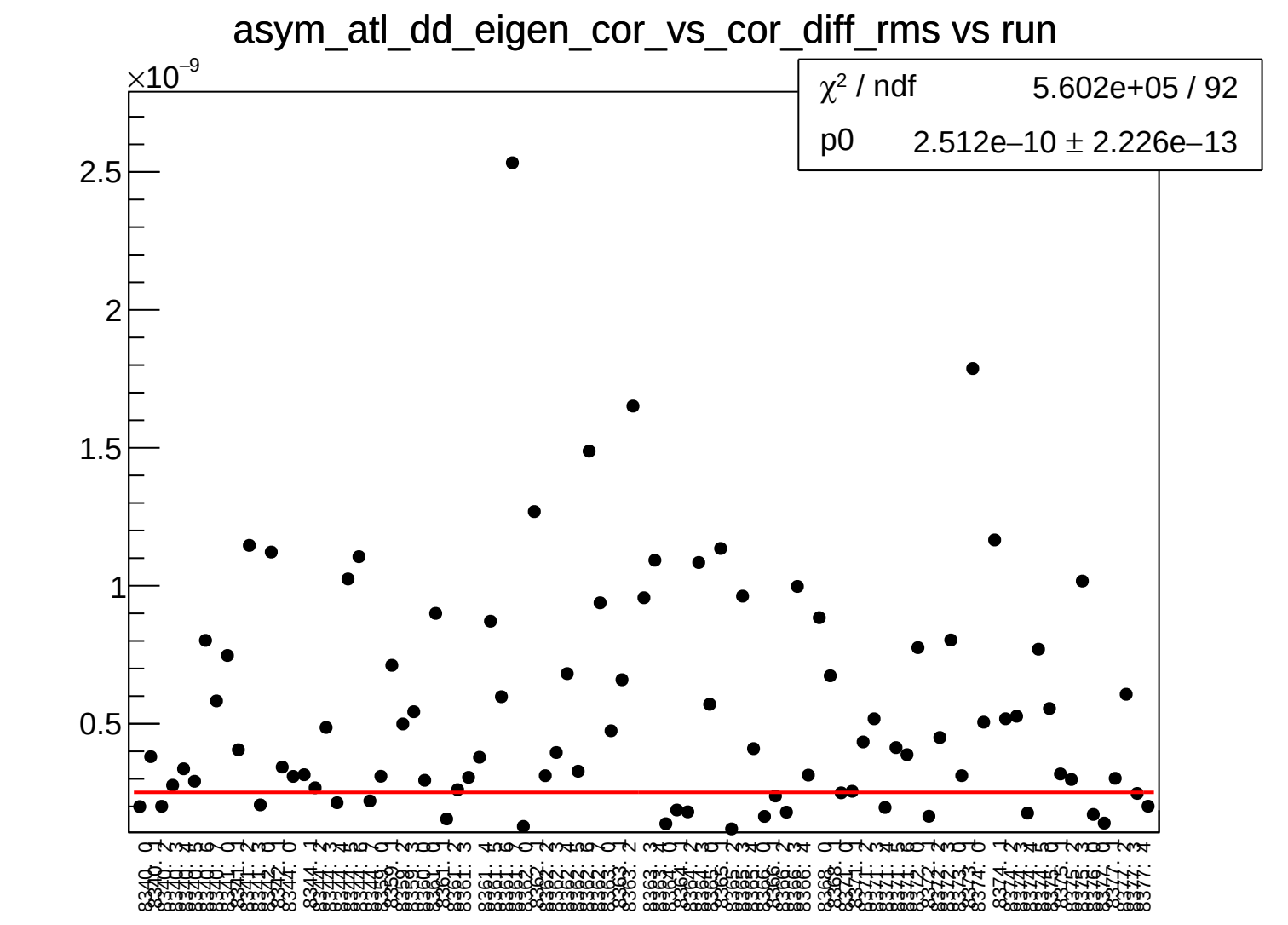

pull1D
Entries 93
Mean −0.01949
Std Dev 0.8094

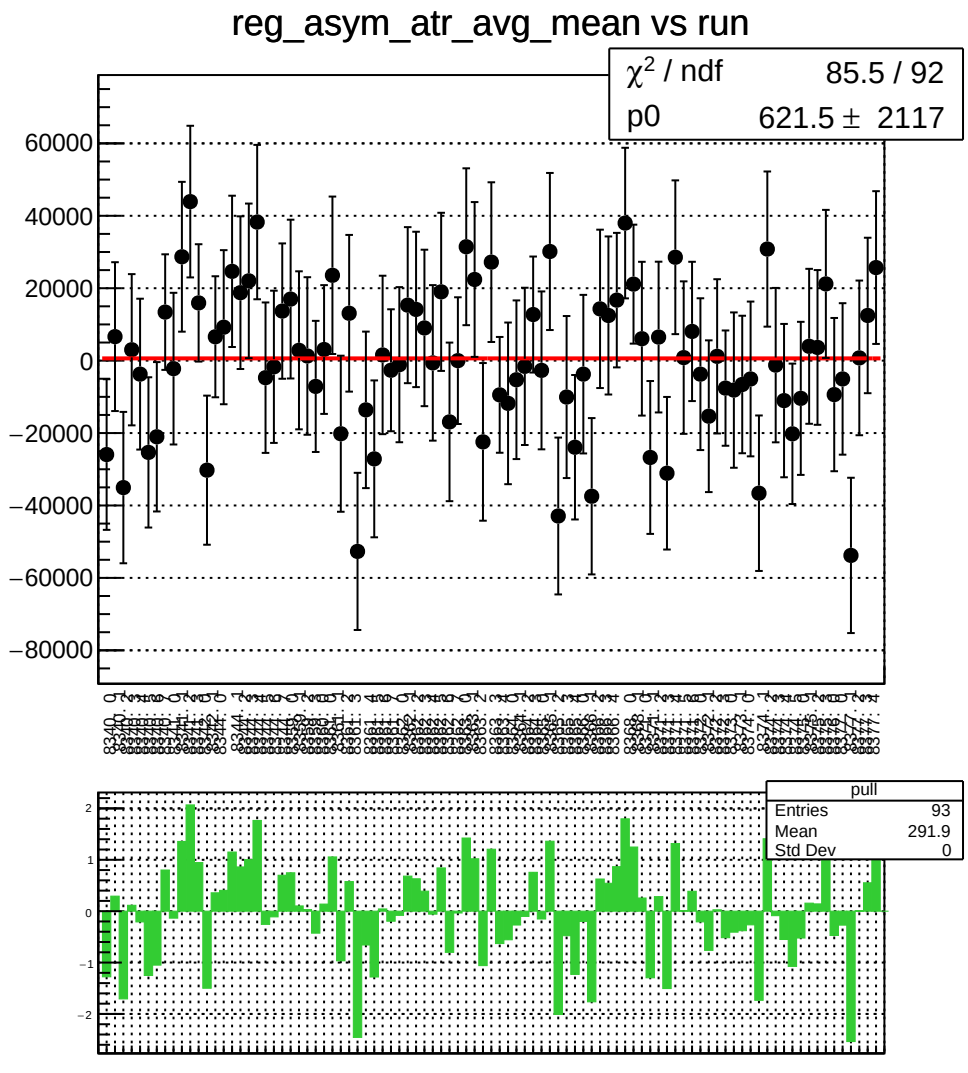

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.164e+04 / 92
p0 100.9 ± 0.07557
150
140
130
120
110
100
90
80
70

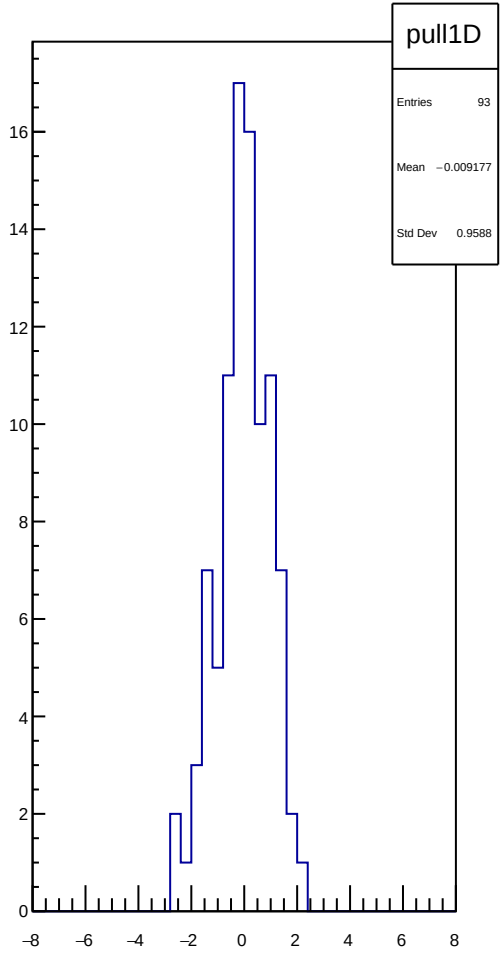

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 60.97 / 92
p0 0.1498 ± 0.1069
pull
Entries 93
Mean 87.83
Std Dev 0
pull1D
Entries 93
Mean −0.01949
Std Dev 0.8094

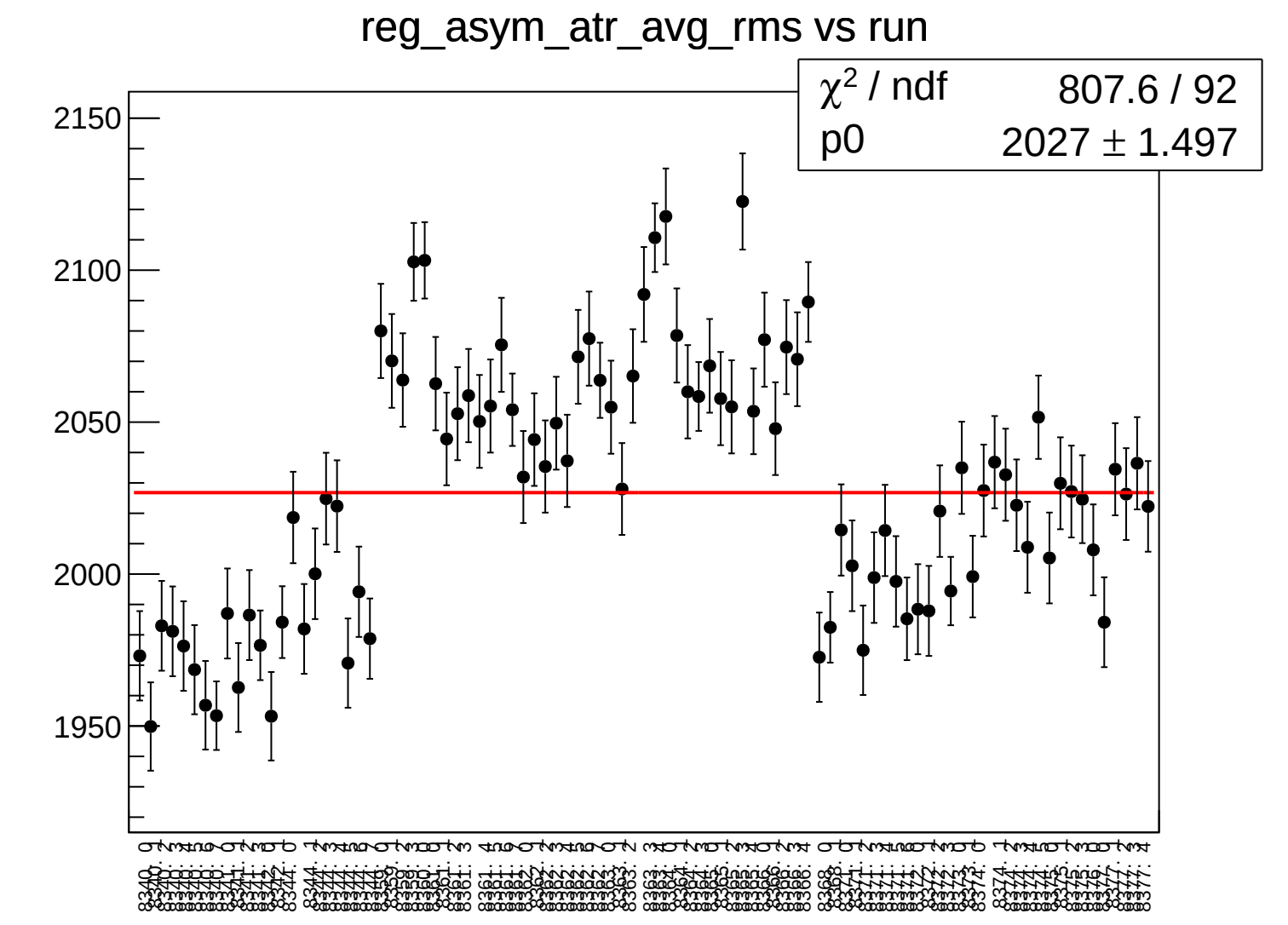

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.164e+04 / 92
p0 100.9 ± 0.07557
150
140
130
120
110
100
90
80
70

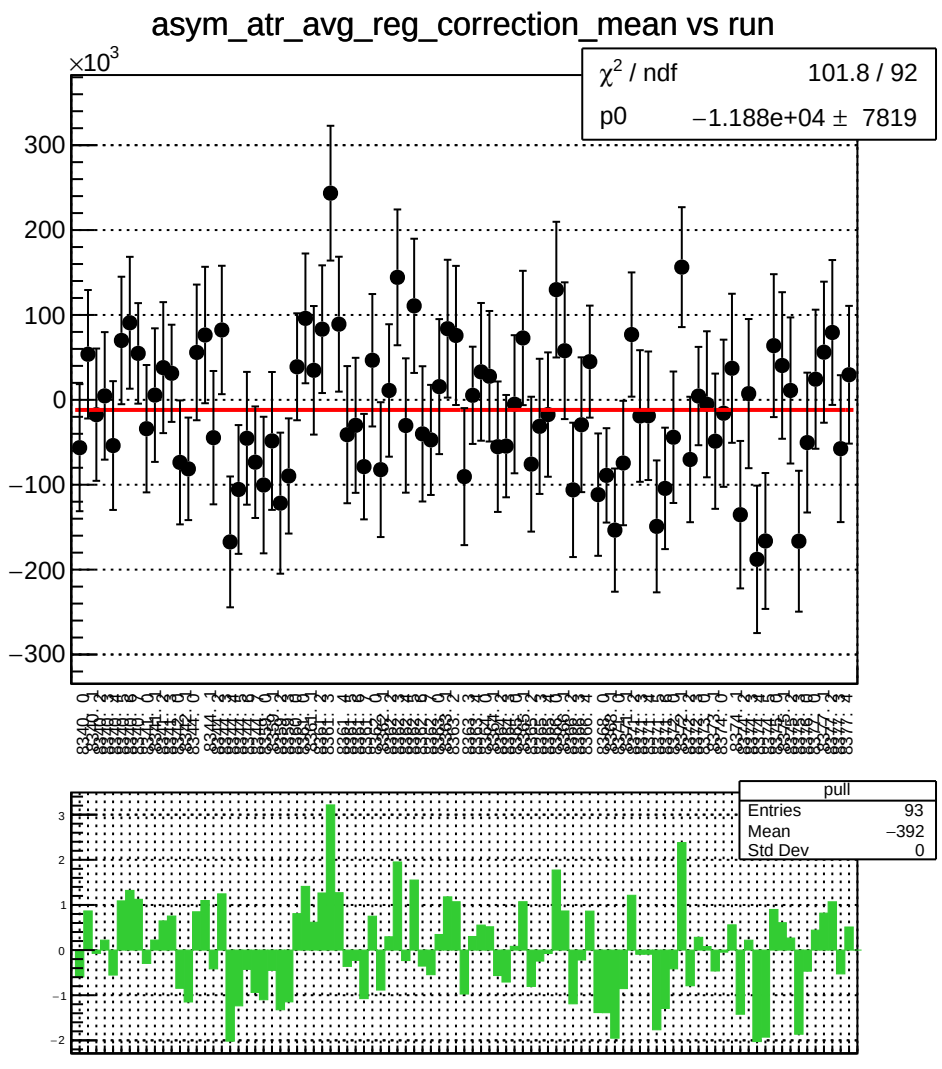

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.98 / 92
p0 −8.419e−15 ± 3.148e−13
pull
Entries 93
Mean 9.7
Std Dev 0
pull1D
Entries 93
Mean 0.06366
Std Dev 0.9481

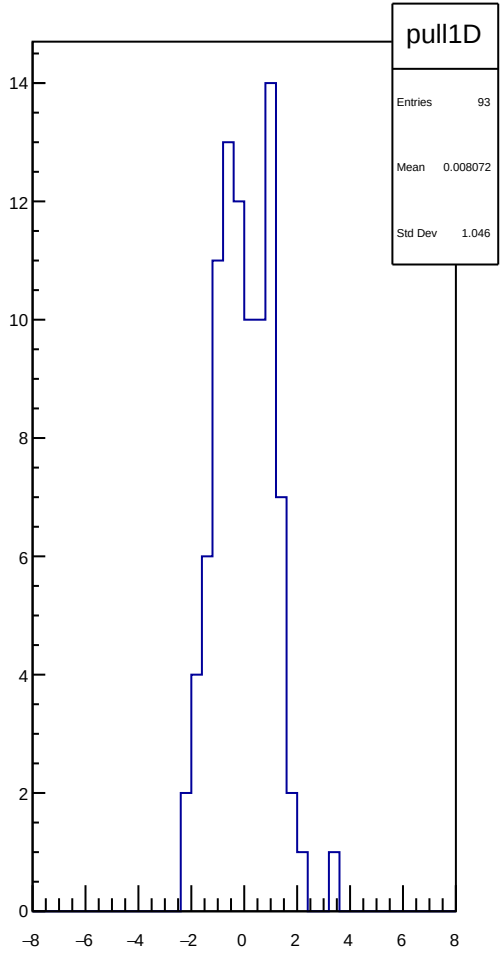

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.602e+05 / 92
p0 2.512e−10 ± 2.226e−13
2.5
2
1.5
1
0.5

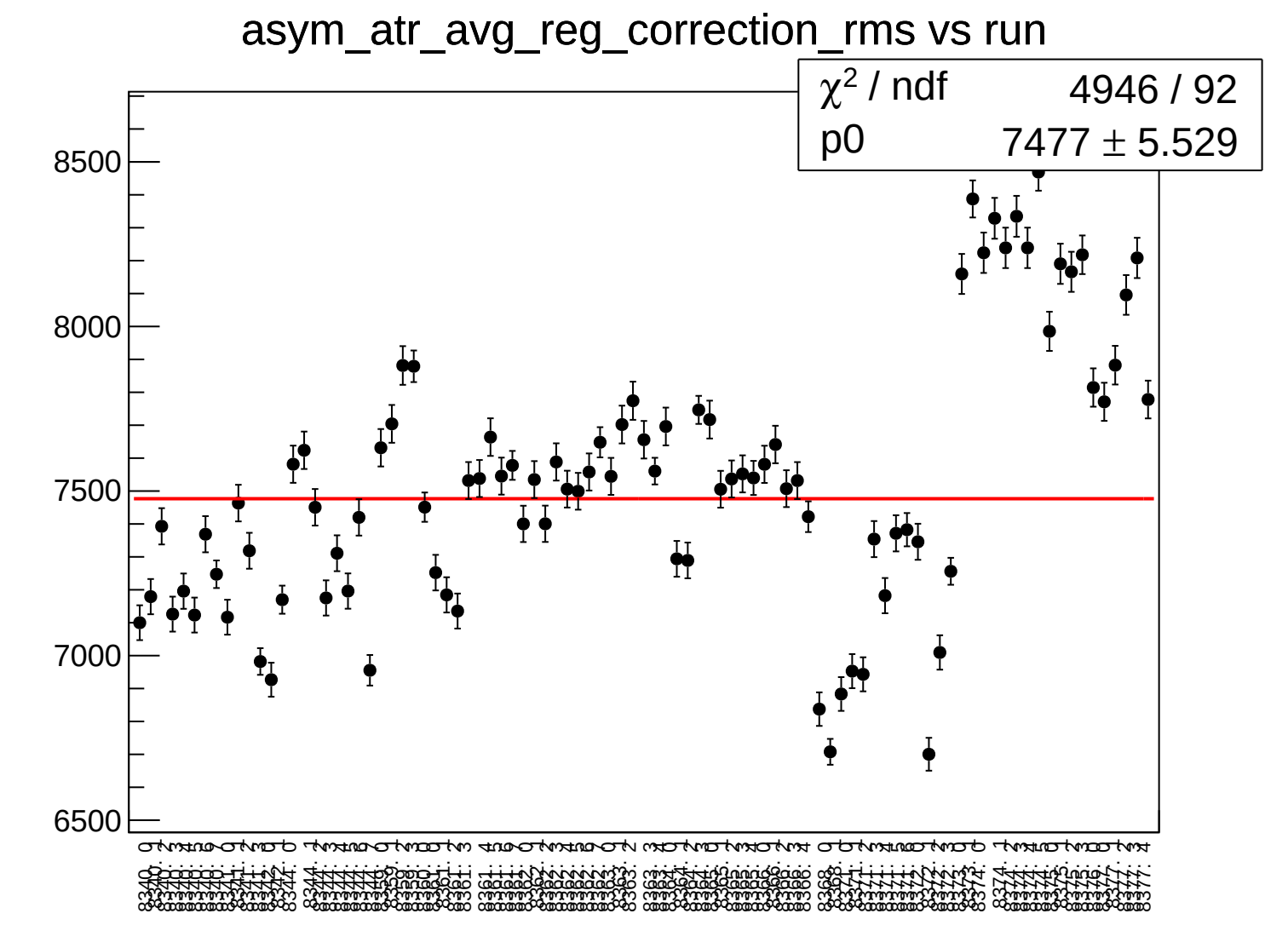

reg_asym_atr_avg_mean vs run
χ² / ndf 85.5 / 92
p0 621.5 ± 2117
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 291.9
Std Dev 0
2
1
0
−1
−2

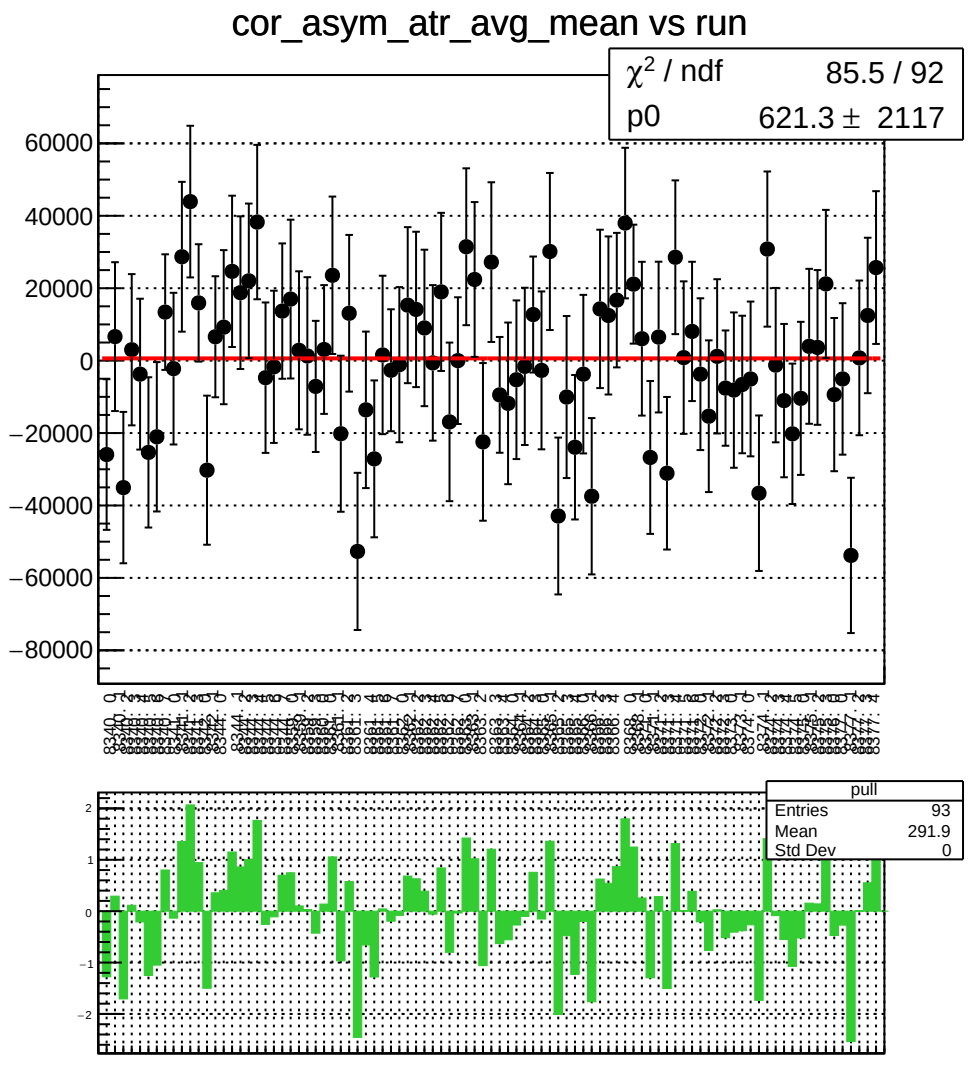

pull1D
Entries 93
Mean −0.009177
Std Dev 0.9588
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

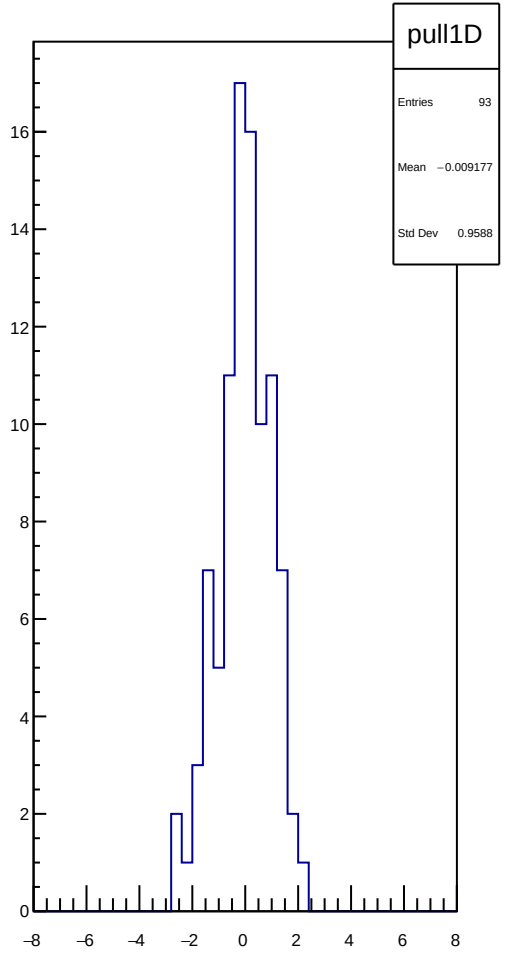

reg_asym_atr_avg_rms vs run
χ² / ndf 807.6 / 92
p0 2027 ± 1.497
2150
2100
2050
2000
1950

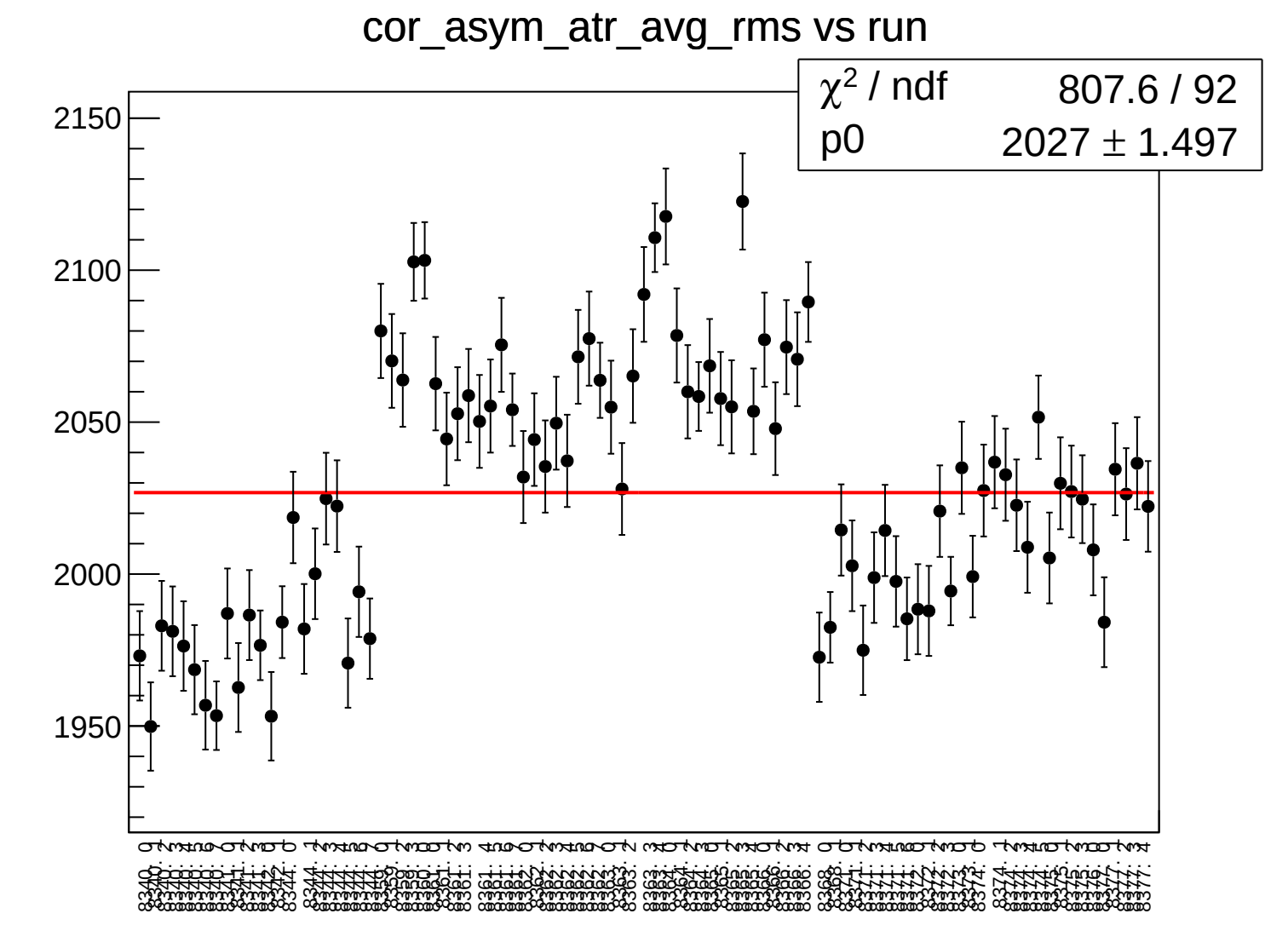

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.8 / 92
p0 −1.188e+04 ± 7819
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −392
Std Dev 0
3
2
1
0
−1
−2

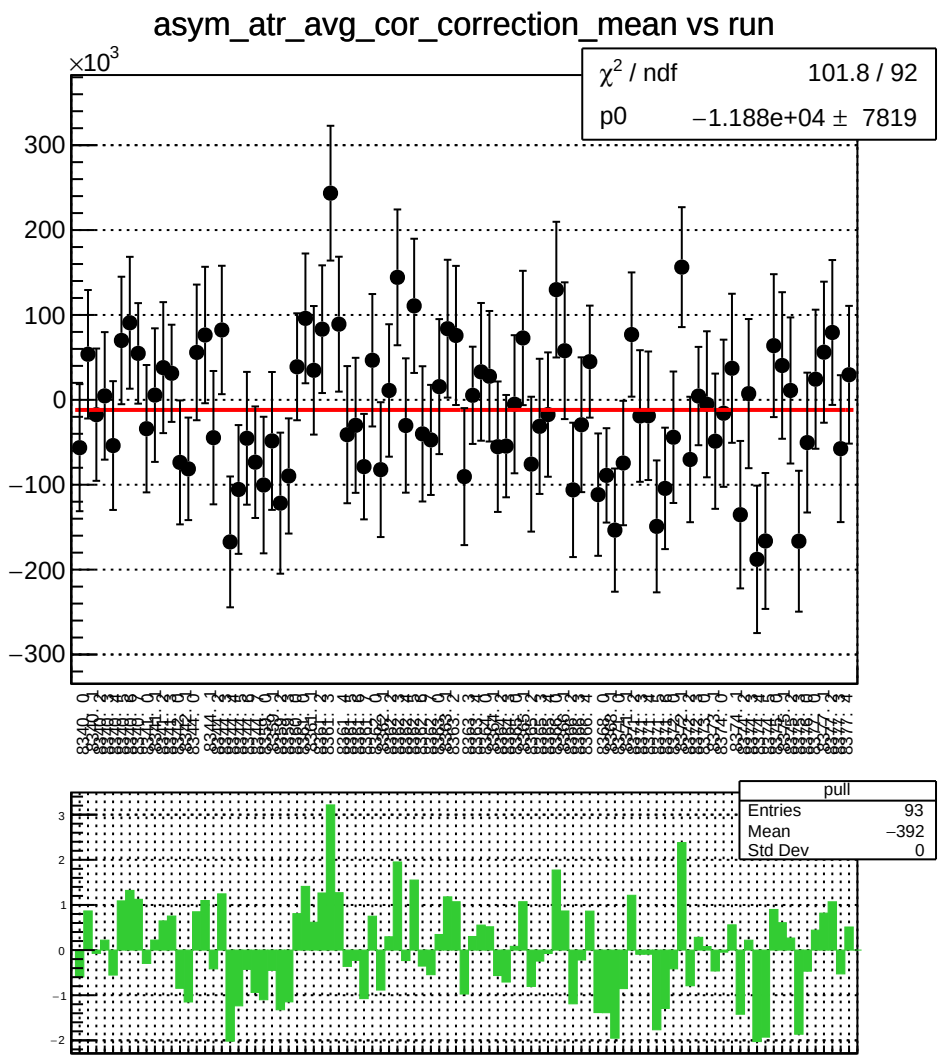

pull1D
Entries 93
Mean 0.008072
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

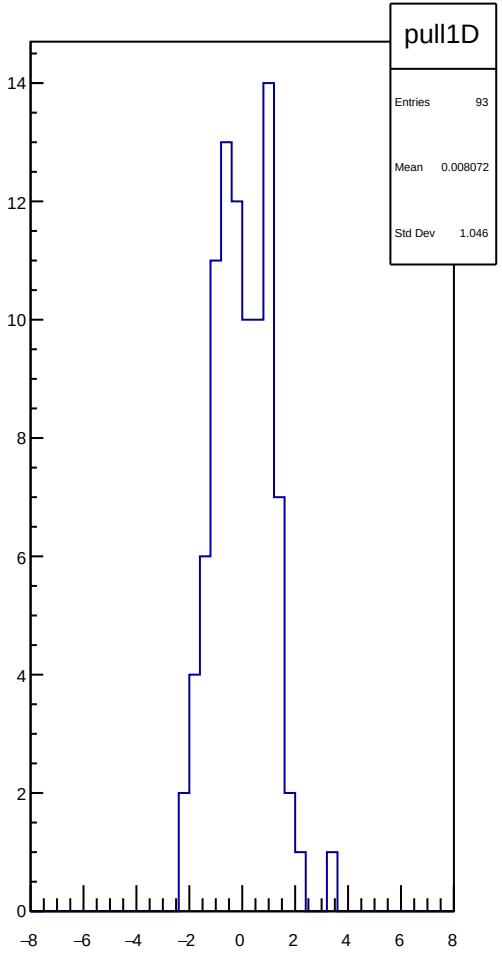

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4946 / 92
p0 7477 ± 5.529
8500
8000
7500
7000
6500

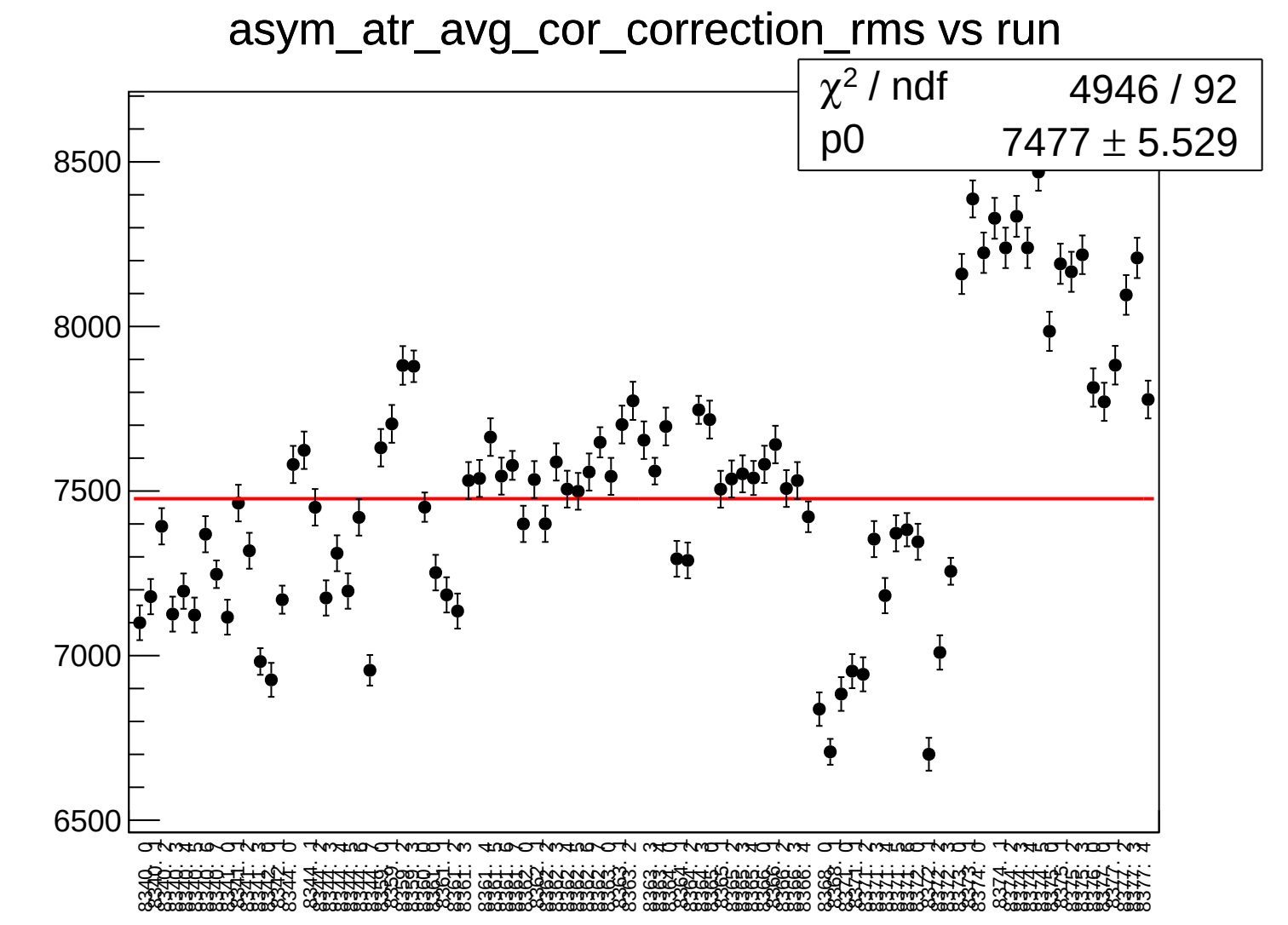

cor_asym_atr_avg_mean vs run
χ² / ndf 85.5 / 92
p0 621.3 ± 2117
pull
Entries 93
Mean 291.9
Std Dev 0

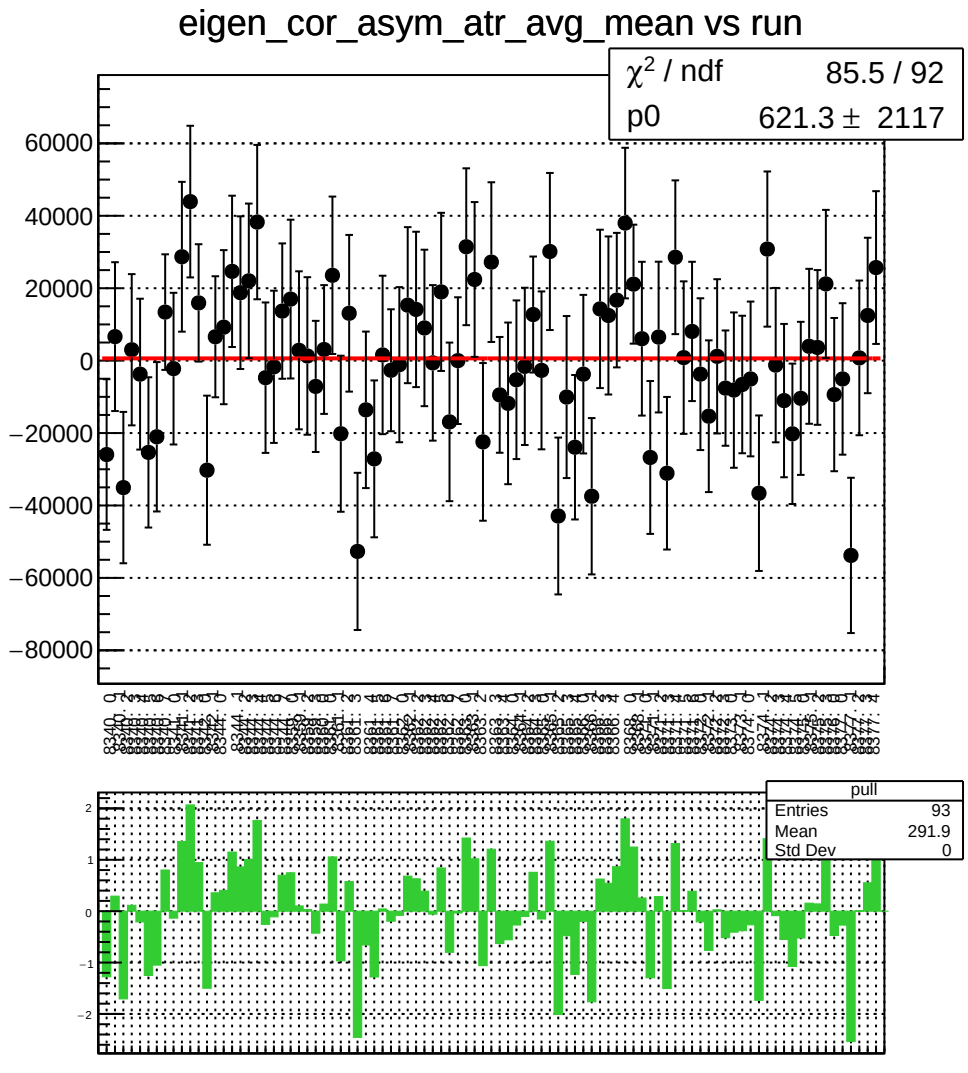

pull1D
Entries 93
Mean −0.009177
Std Dev 0.9588

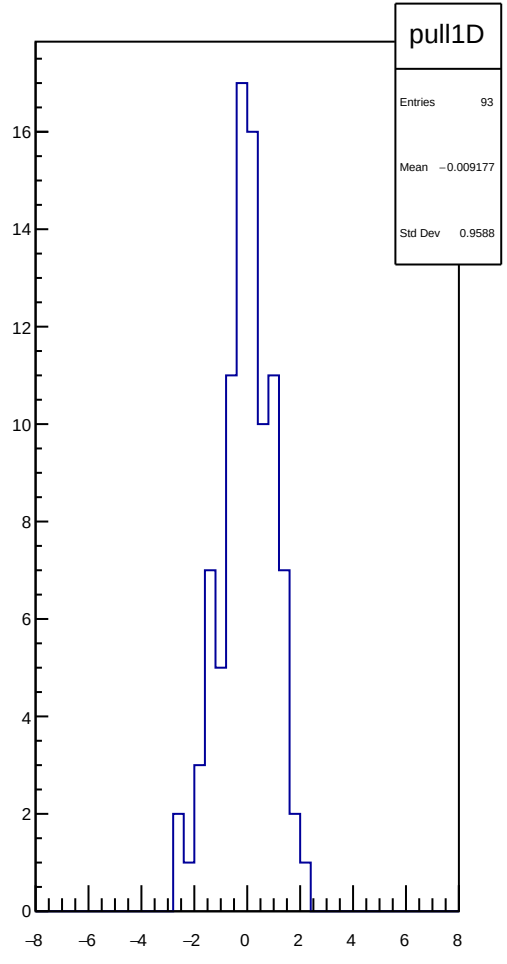

cor_asym_atr_avg_rms vs run
χ² / ndf 807.6 / 92
p0 2027 ± 1.497
2150
2100
2050
2000
1950

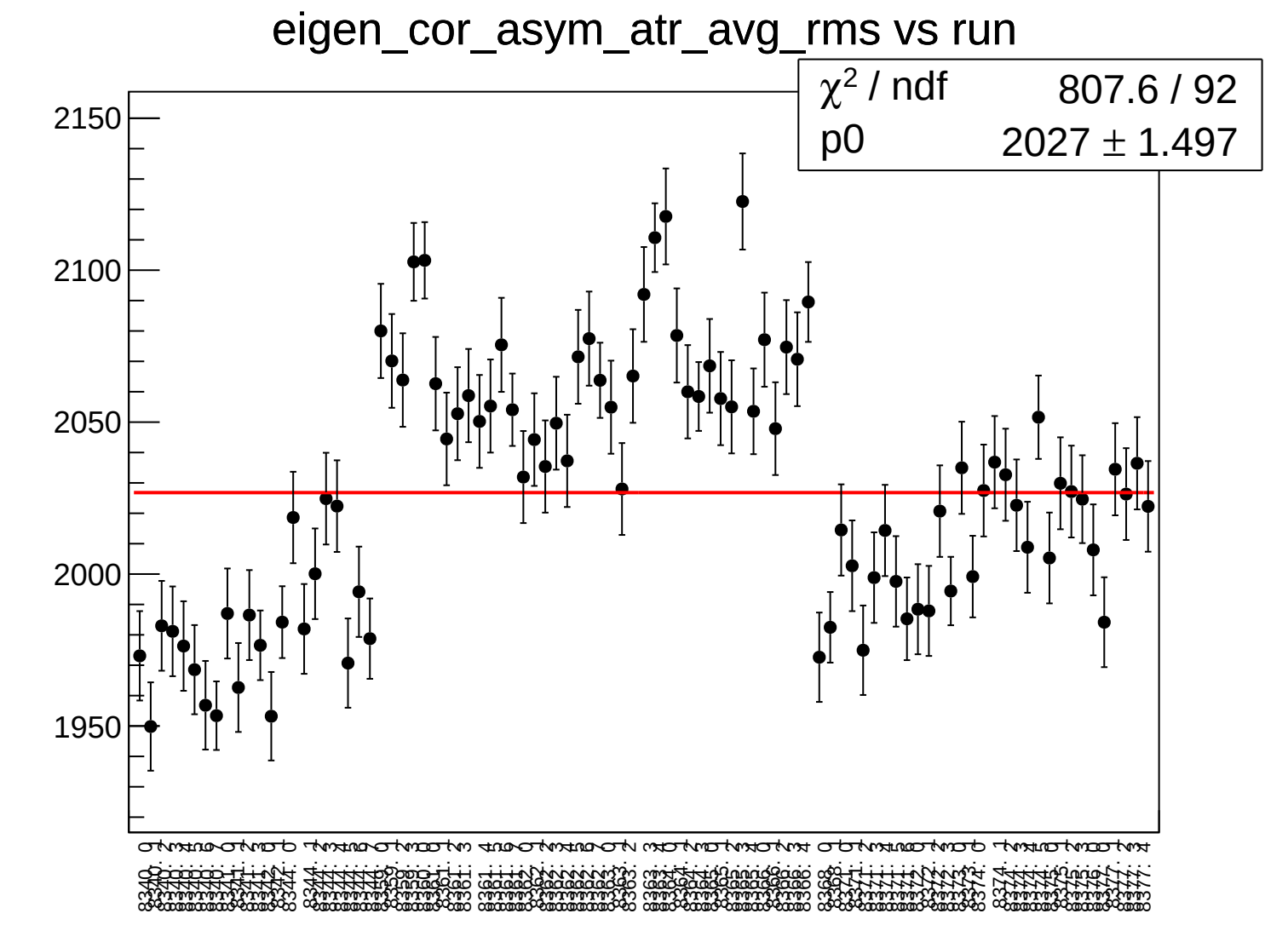

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 92
p0 −1.188e+04 ± 7819
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −392
Std Dev 0
3
2
1
0
−1
−2

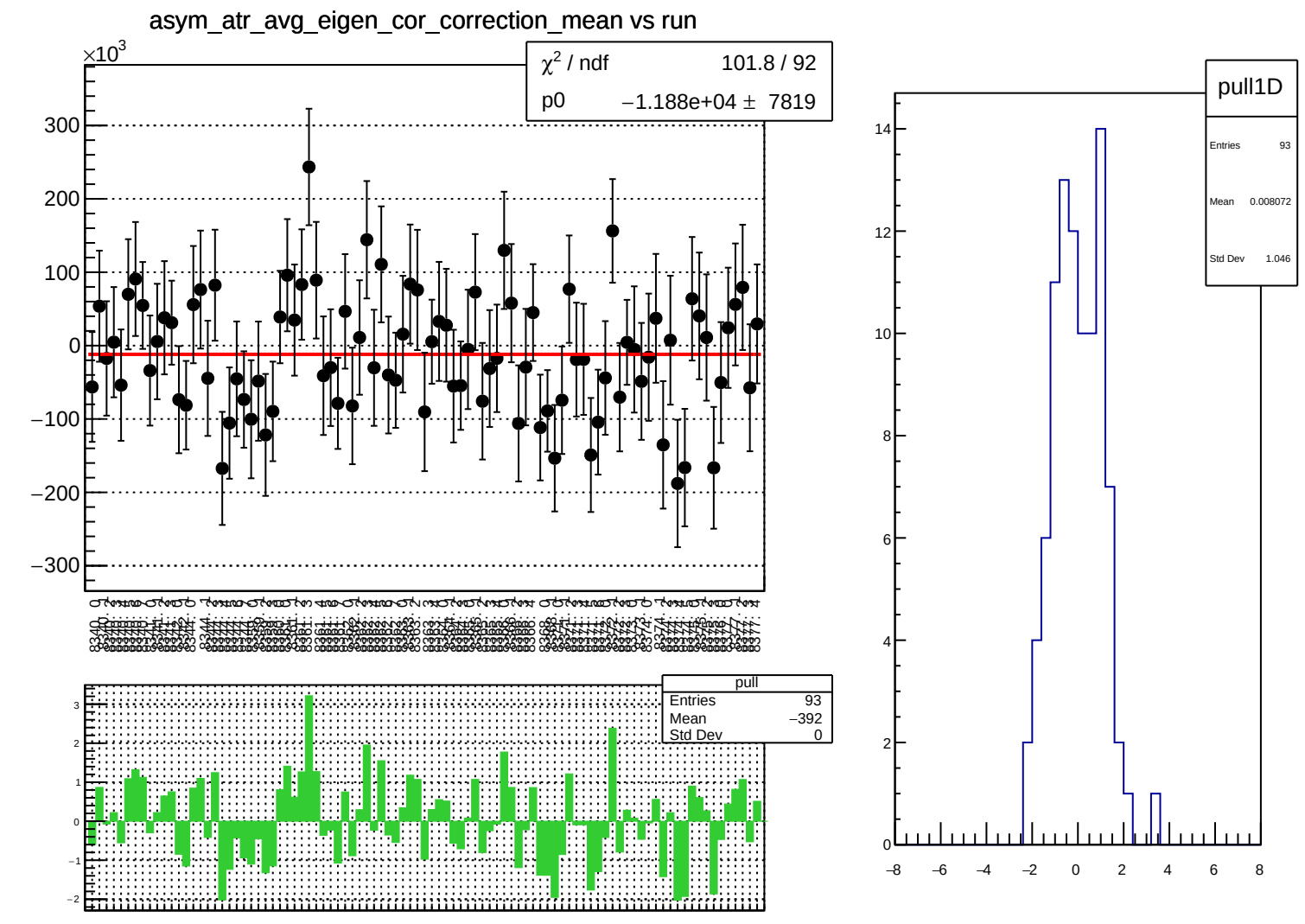

pull1D
Entries 93
Mean 0.008072
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

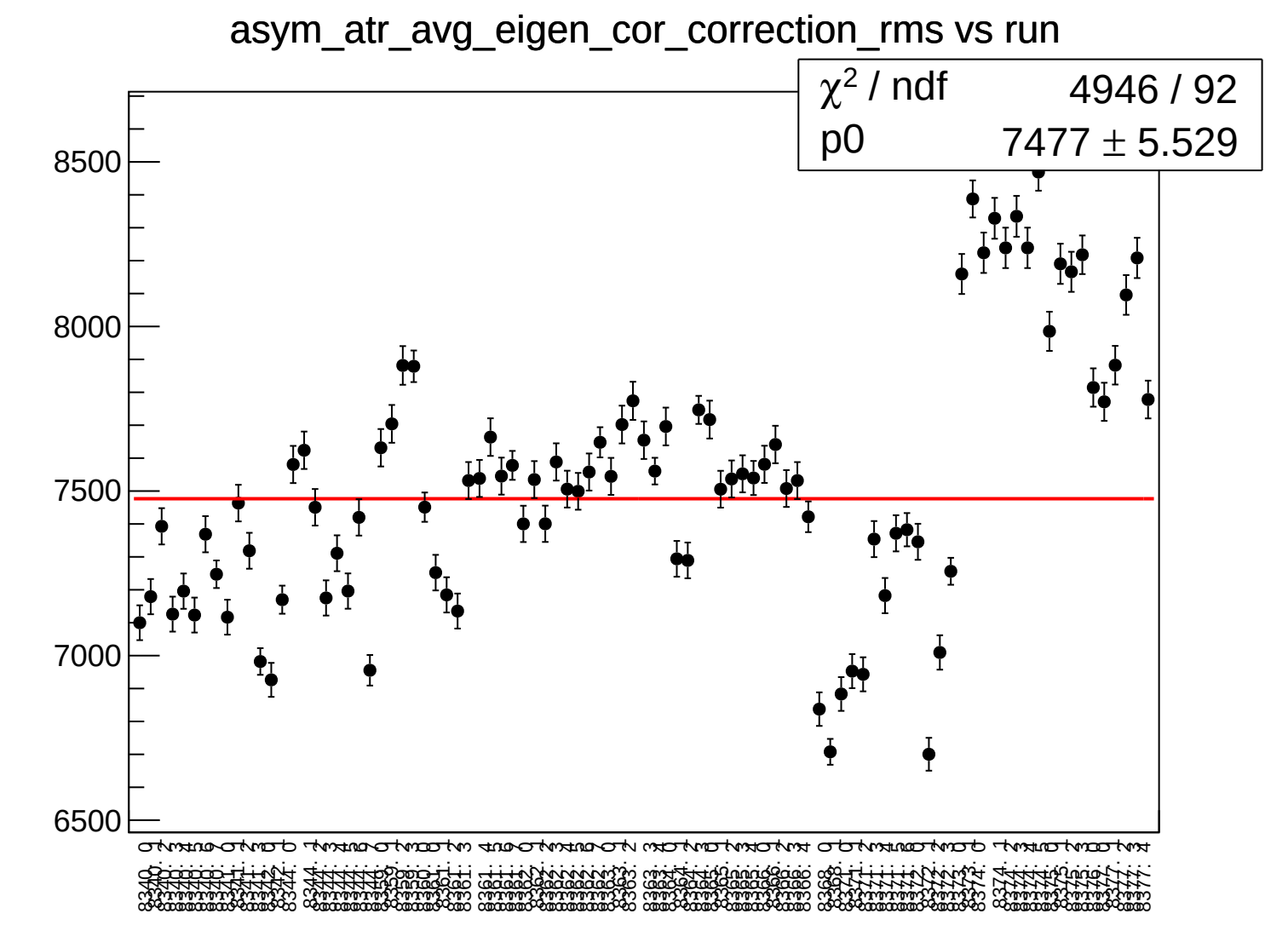

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4946 / 92
p0 7477 ± 5.529
8500
8000
7500
7000
6500

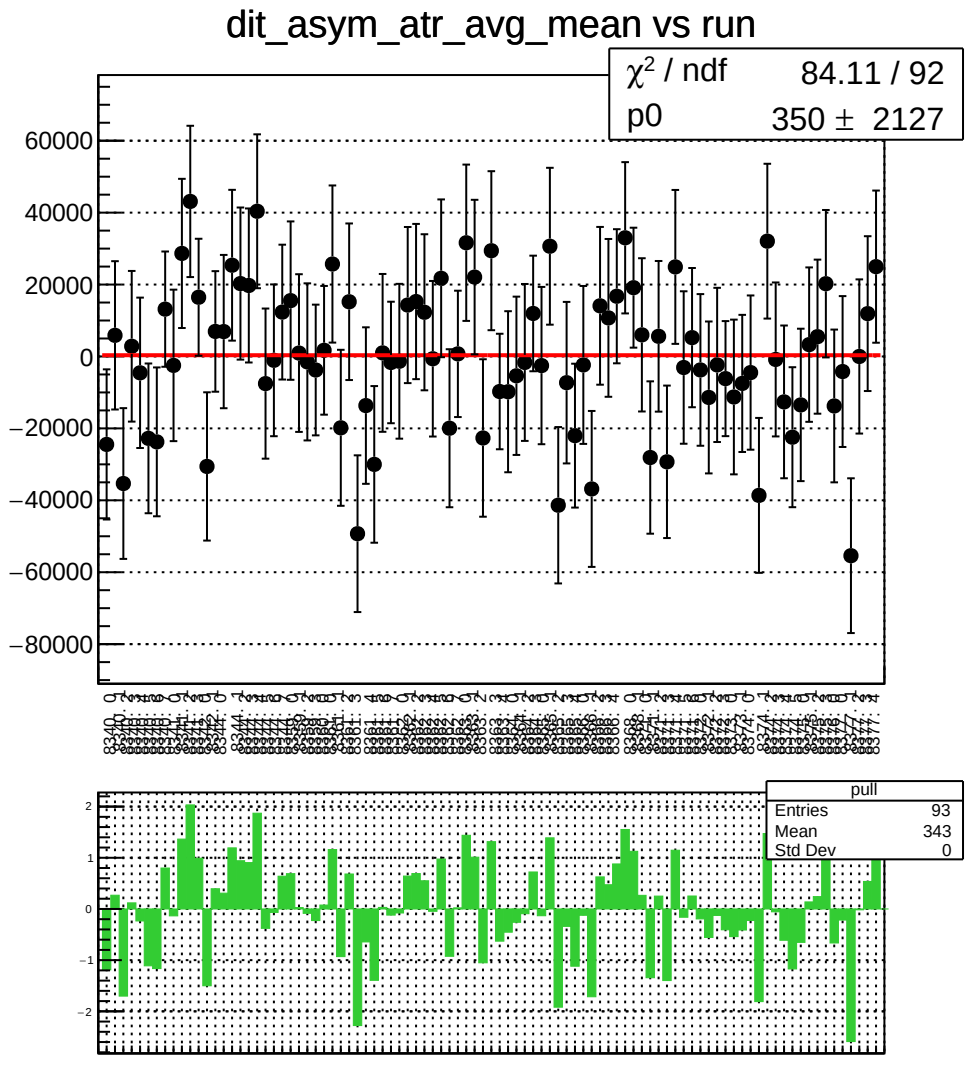

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 85.5 / 92
p0 621.3 ± 2117
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 291.9
Std Dev 0
2
1
0
−1
−2

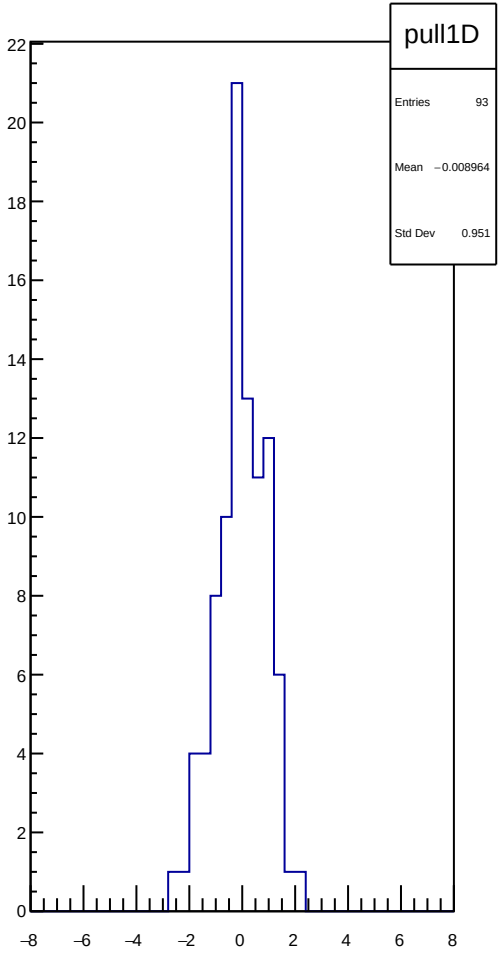

pull1D
Entries 93
Mean −0.009177
Std Dev 0.9588
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

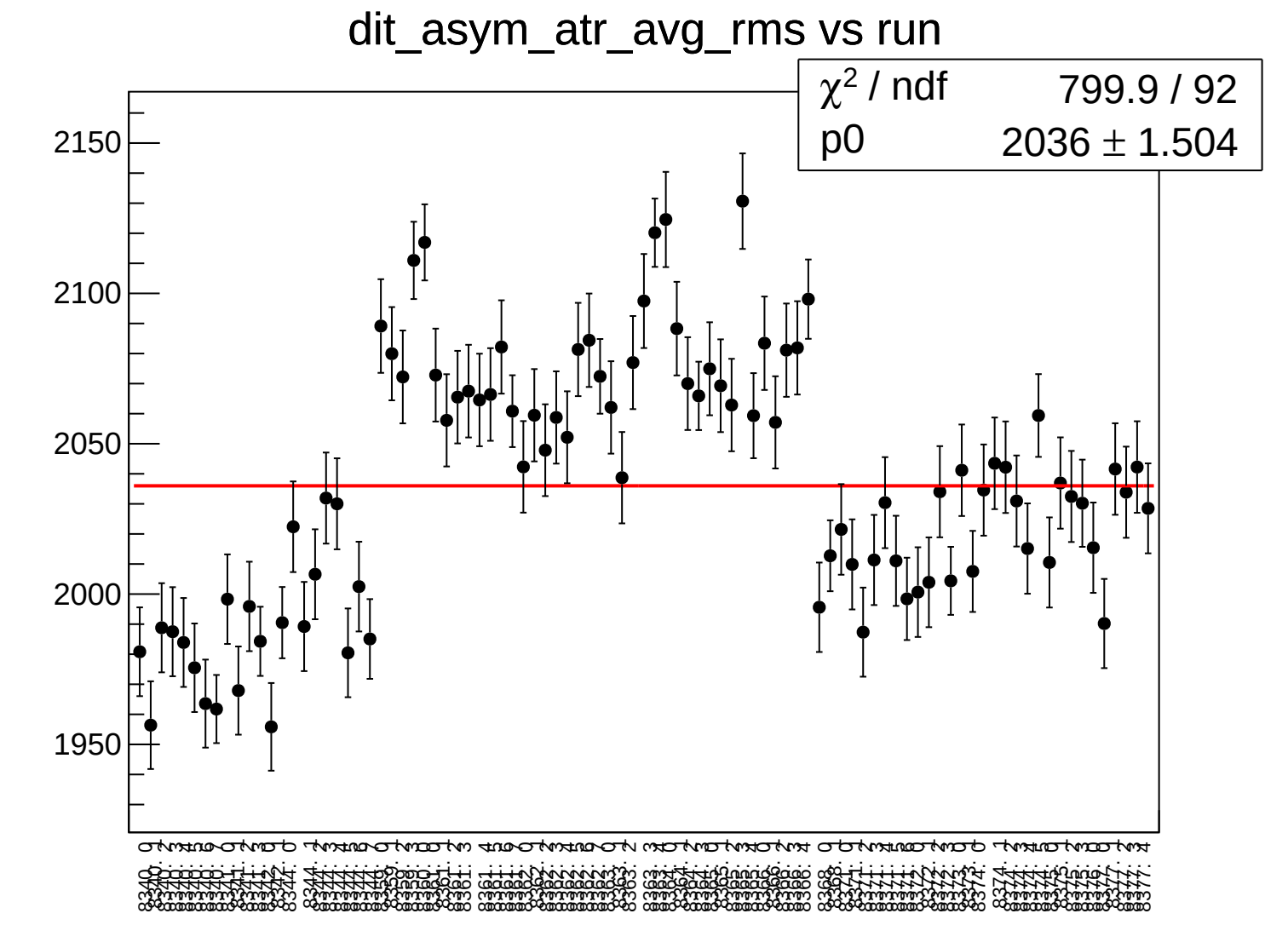

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 807.6 / 92
p0 2027 ± 1.497
2150
2100
2050
2000
1950

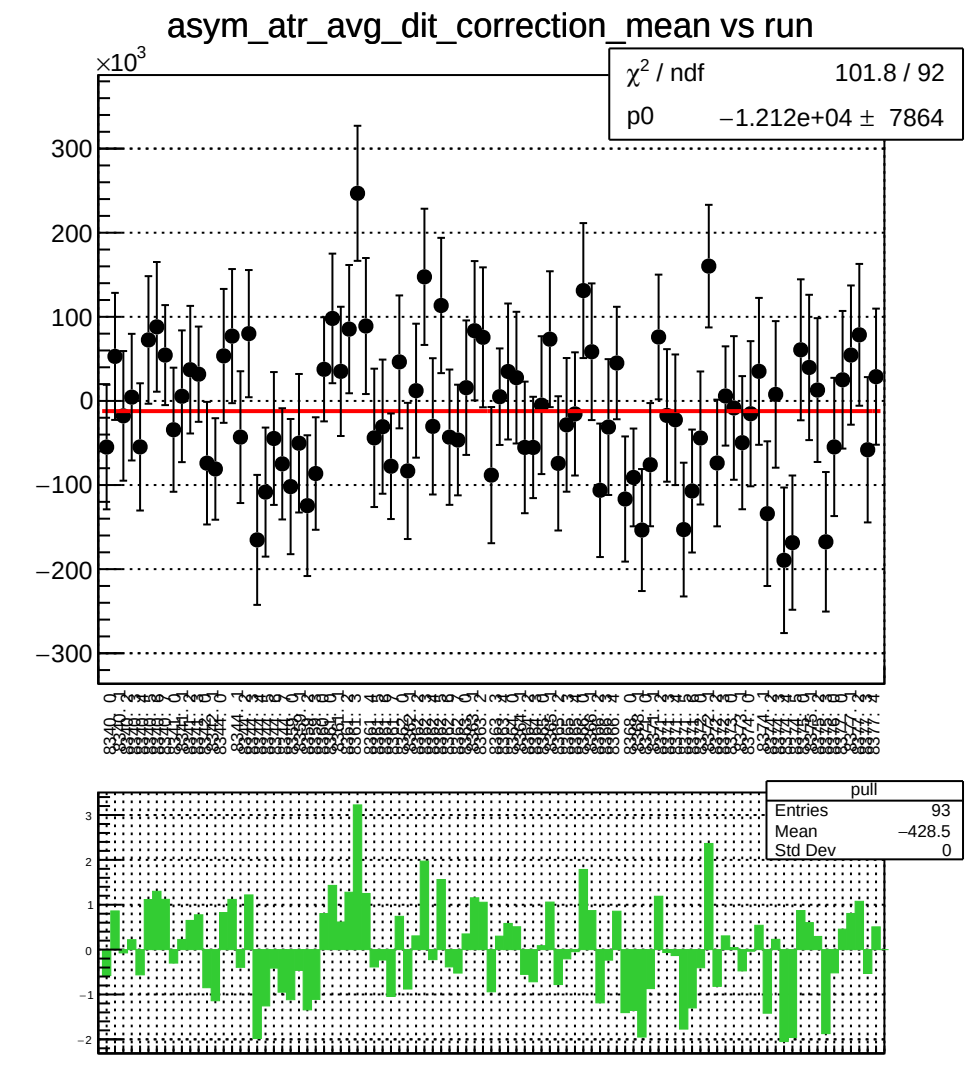

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 92
p0 −1.188e+04 ± 7819
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −392
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.008072
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

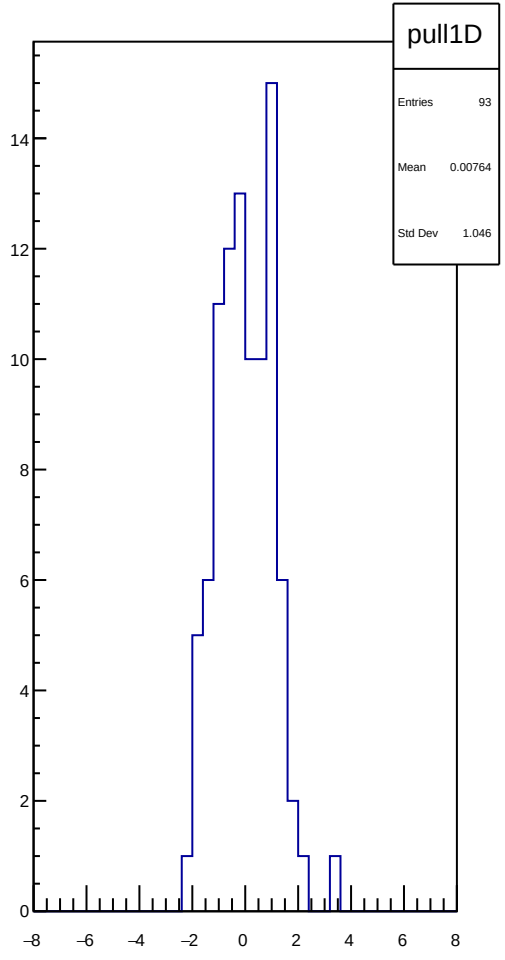

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4946 / 92
p0 7477 ± 5.529
8500
8000
7500
7000
6500

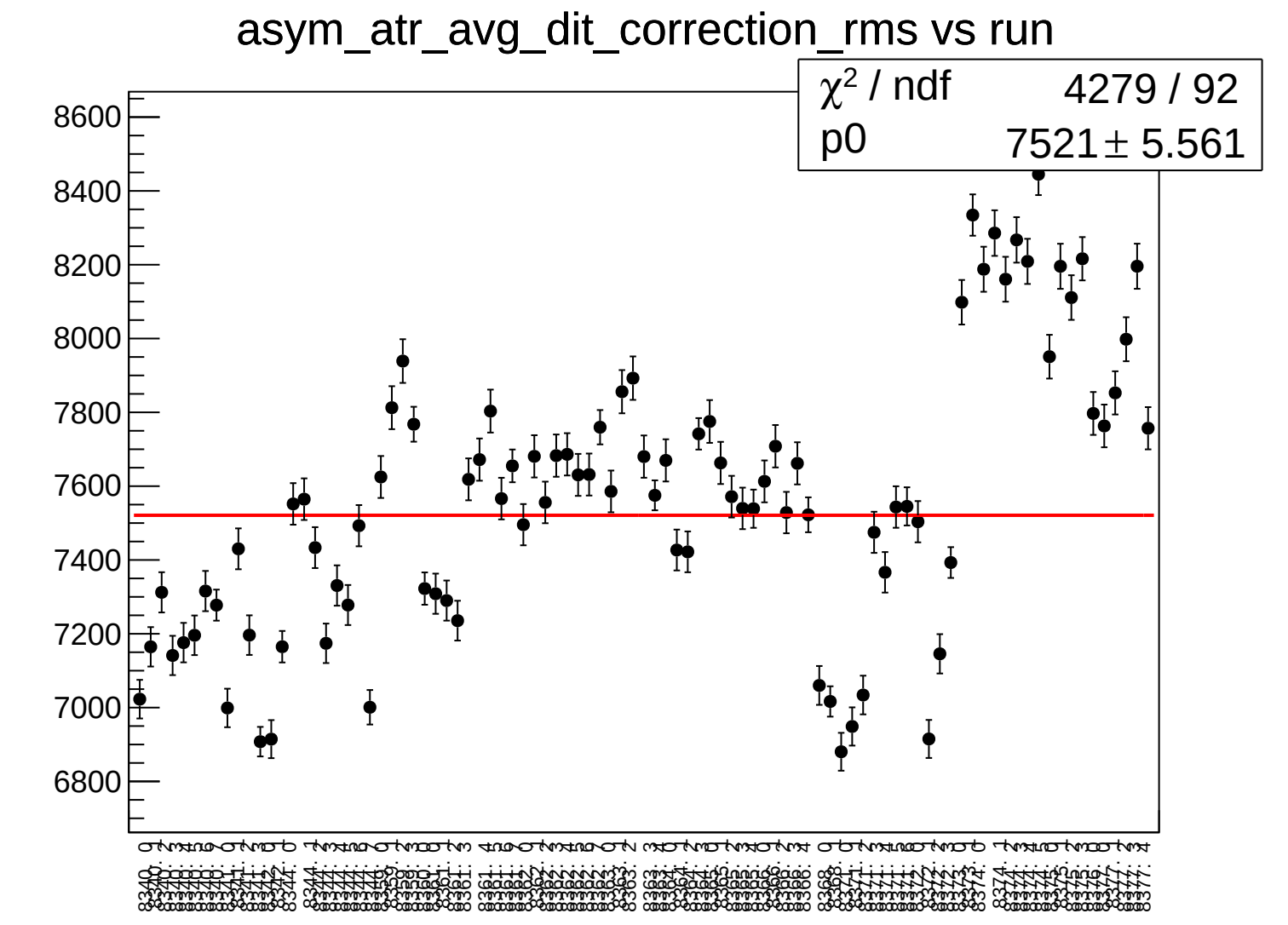

dit_asym_atr_avg_mean vs run
χ² / ndf 84.11 / 92
p0 350 ± 2127
pull
Entries 93
Mean 343
Std Dev 0

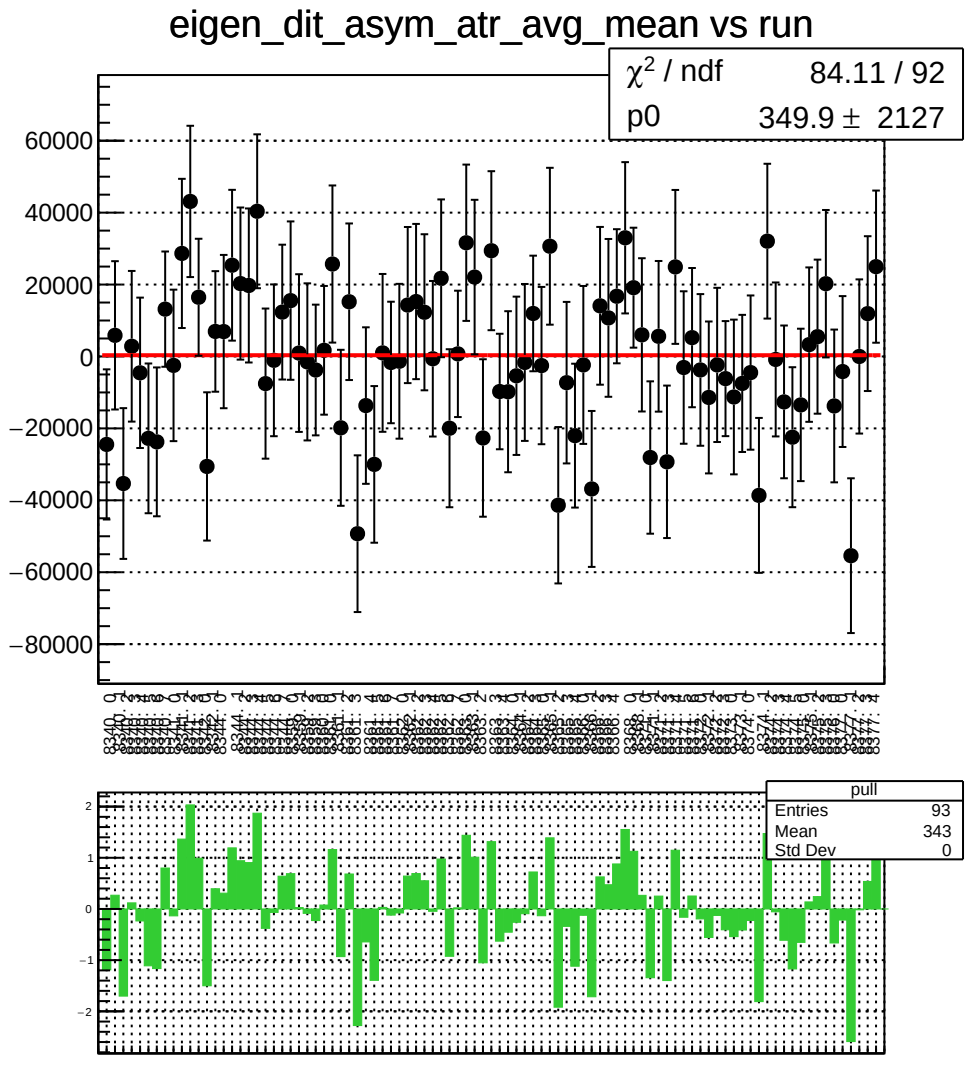

pull1D
Entries 93
Mean −0.008964
Std Dev 0.951

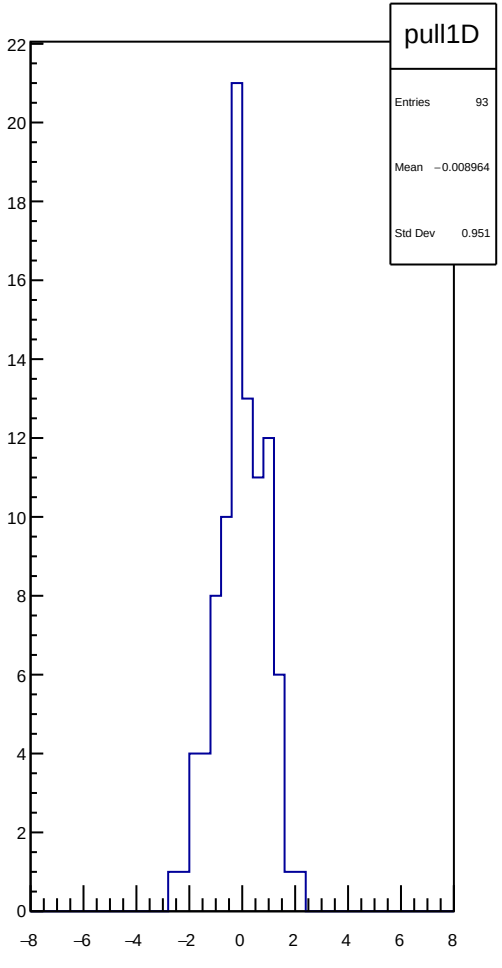

dit_asym_atr_avg_rms vs run
χ² / ndf 799.9 / 92
p0 2036 ± 1.504
2150
2100
2050
2000
1950

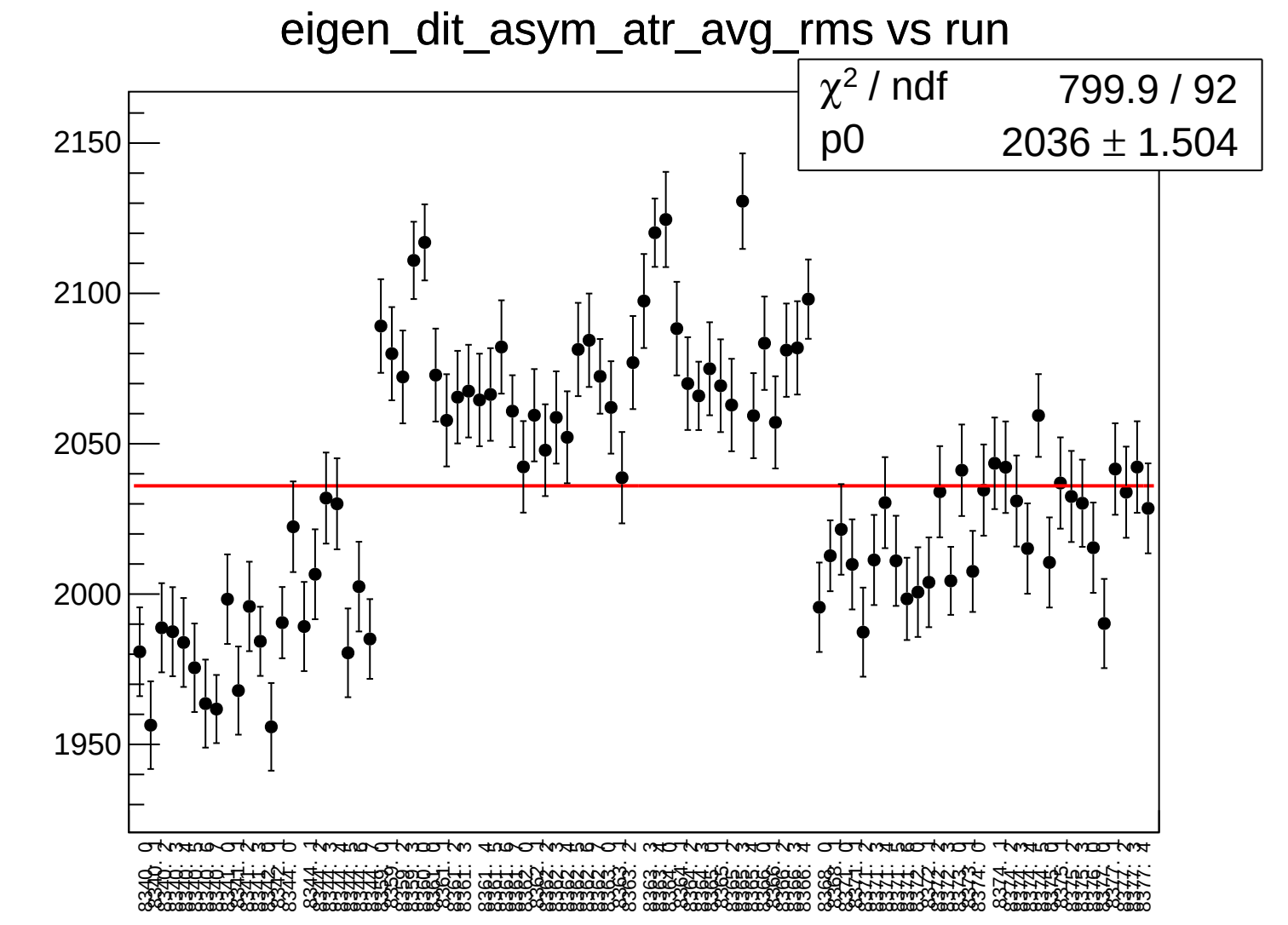

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.8 / 92
p0 −1.212e+04 ± 7864
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −428.5
Std Dev 0
3
2
1
0
−1
−2

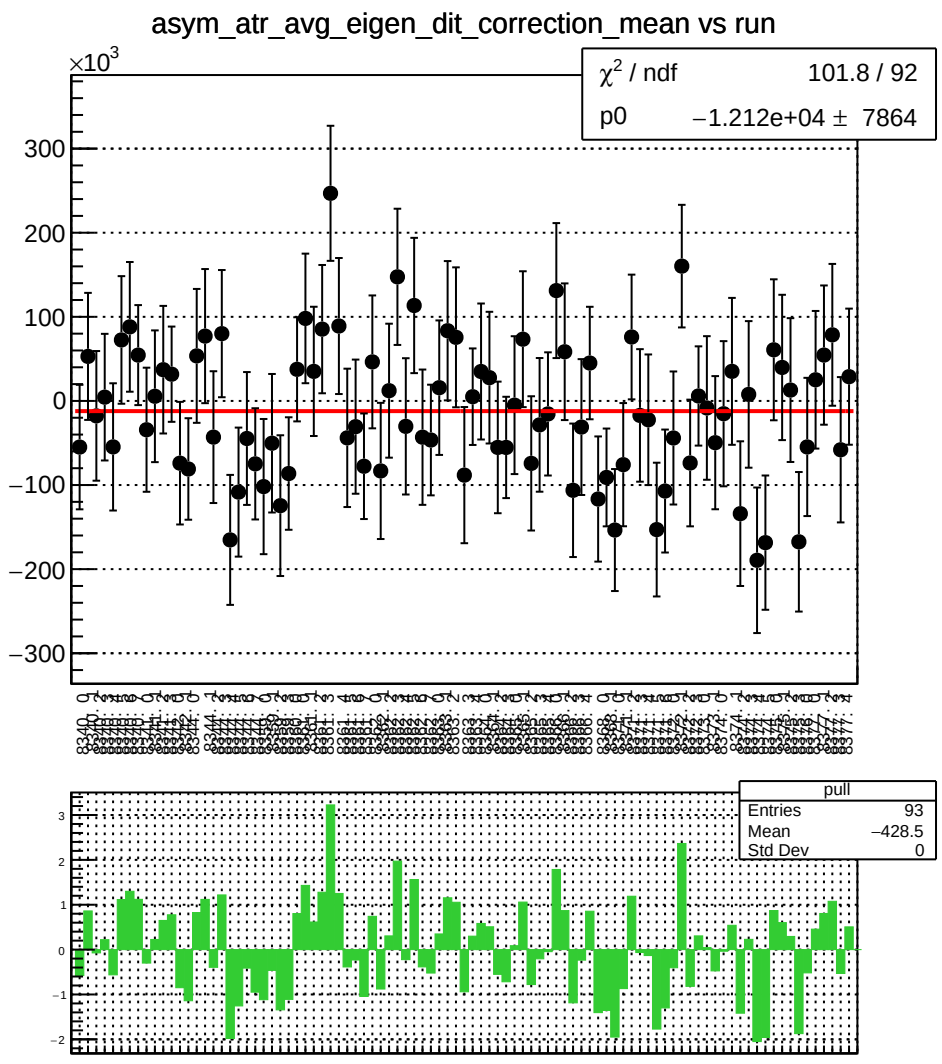

pull1D
Entries 93
Mean 0.00764
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

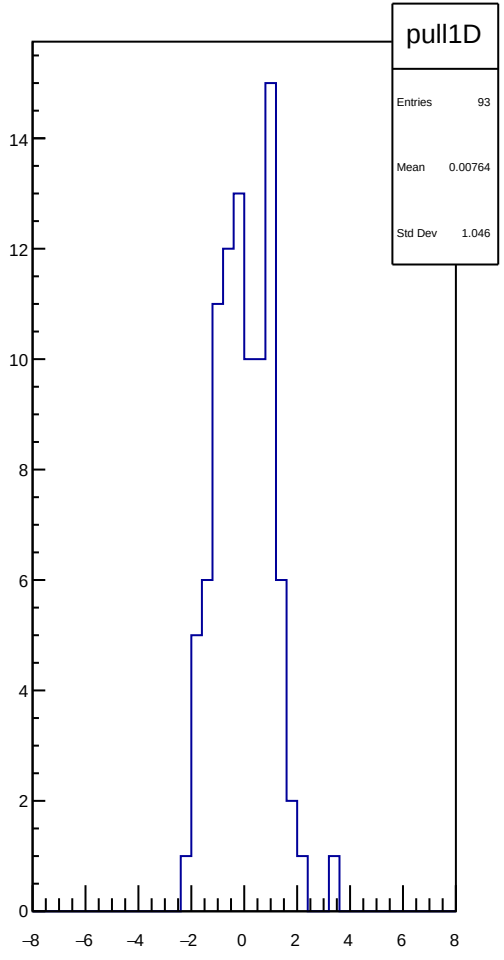

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4279 / 92
p0 7521 ± 5.561
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

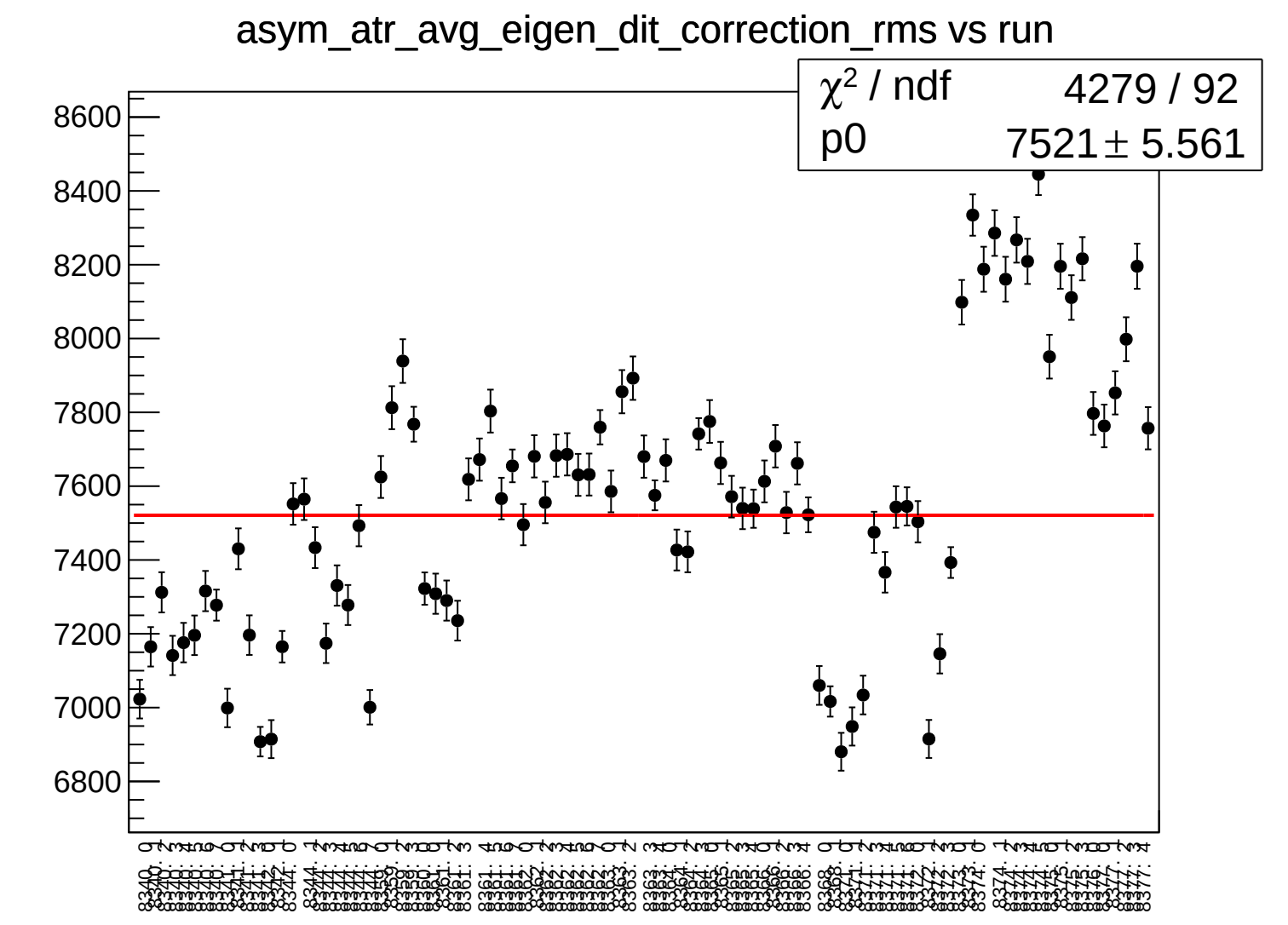

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 84.11 / 92
p0 349.9 ± 2127
pull
Entries 93
Mean 343
Std Dev 0

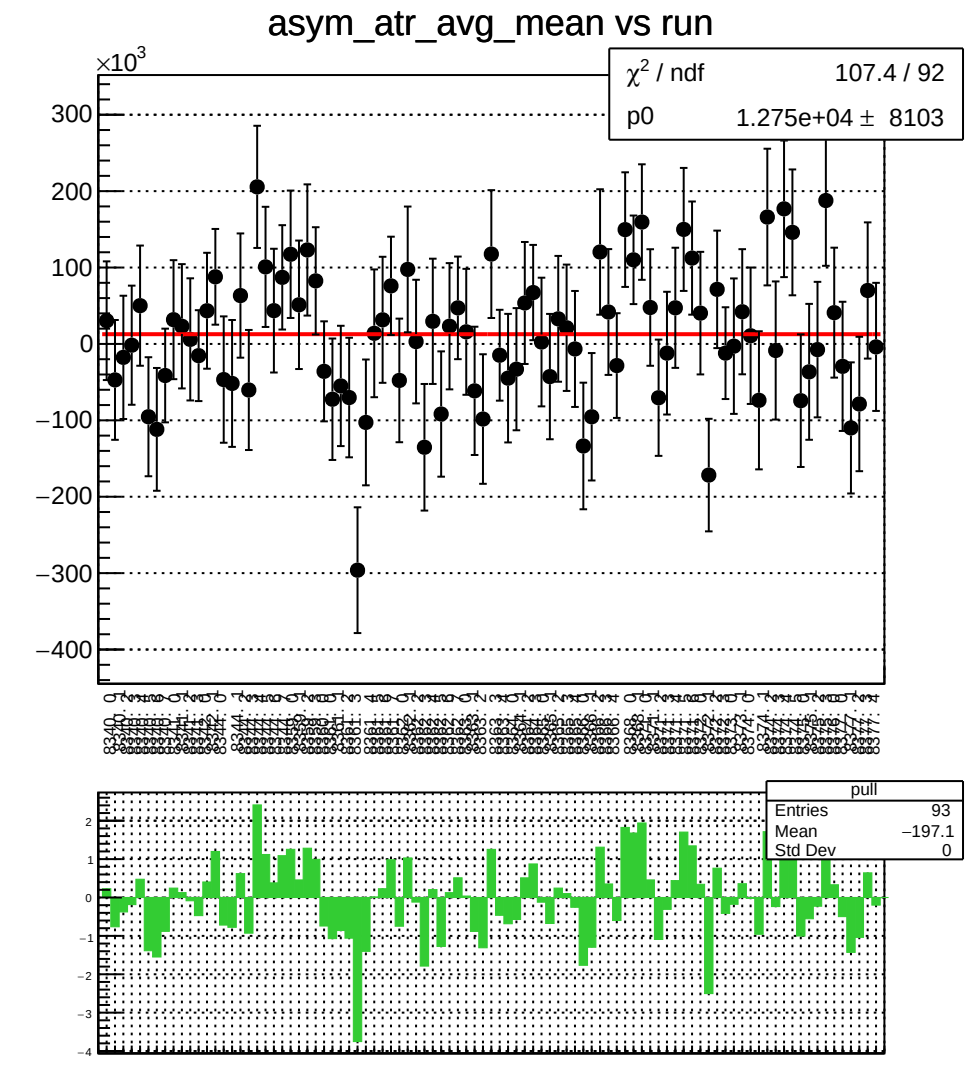

pull1D
Entries 93
Mean −0.008964
Std Dev 0.951

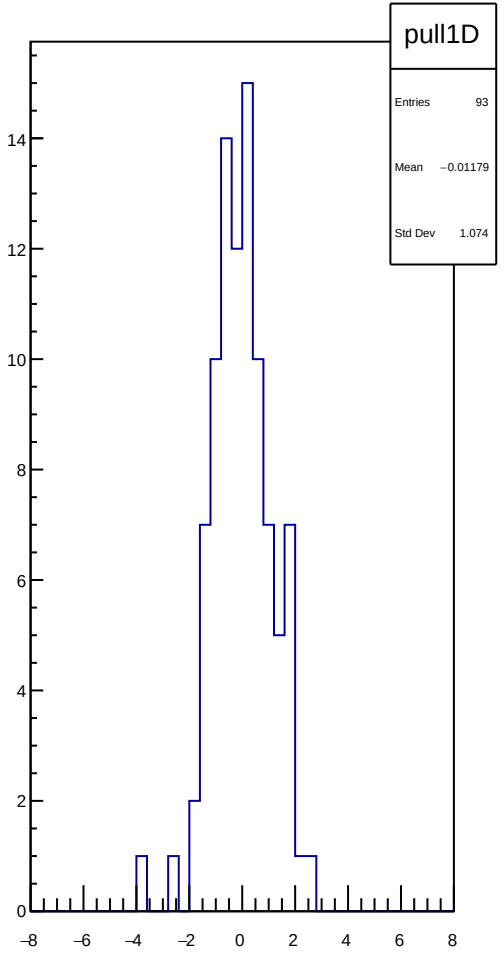

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 799.9 / 92
p0 2036 ± 1.504
2150
2100
2050
2000
1950

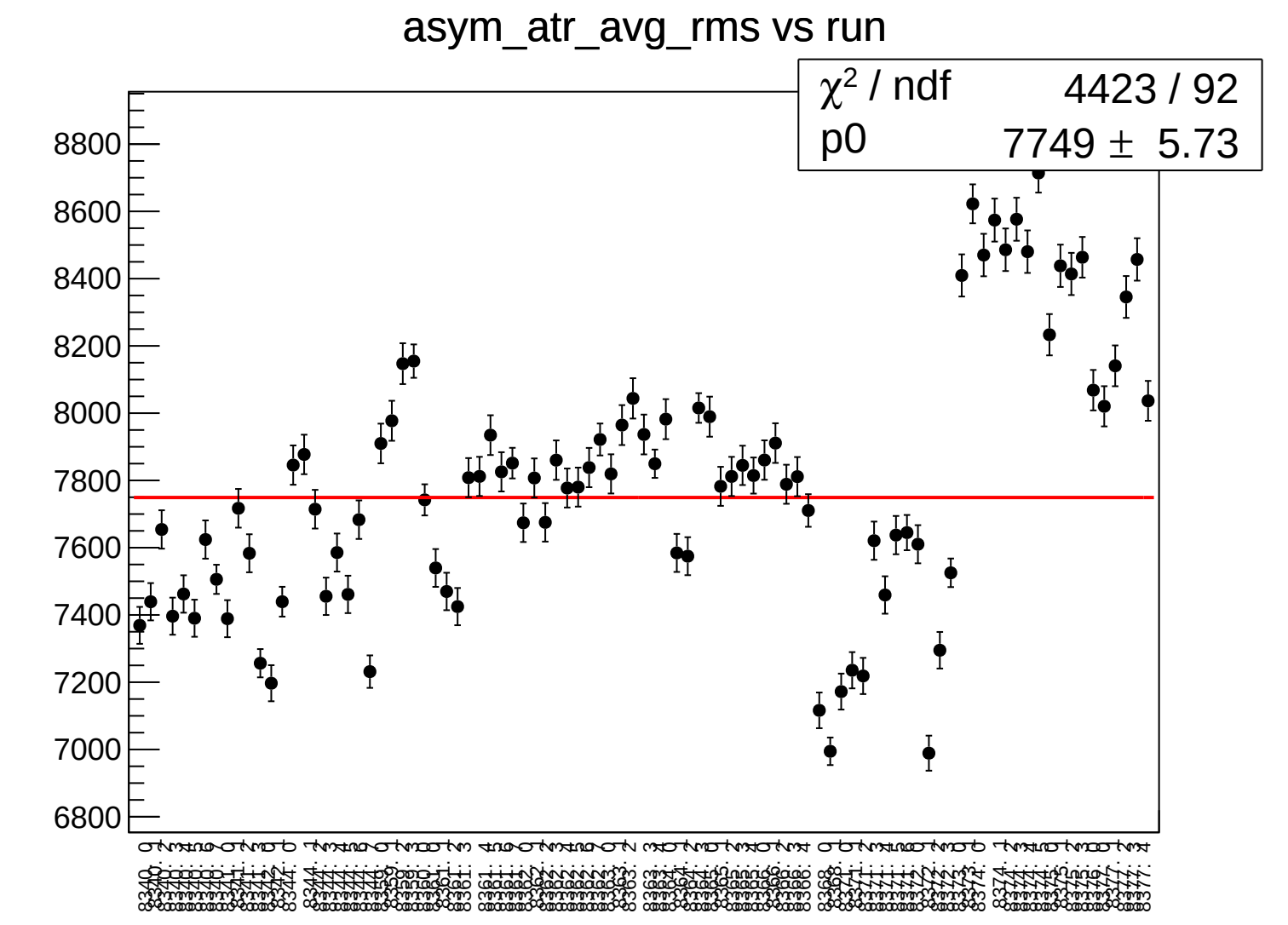

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.8 / 92
p0 −1.212e+04 ± 7864
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −428.5
Std Dev 0
3
2
1
0
−1
−2

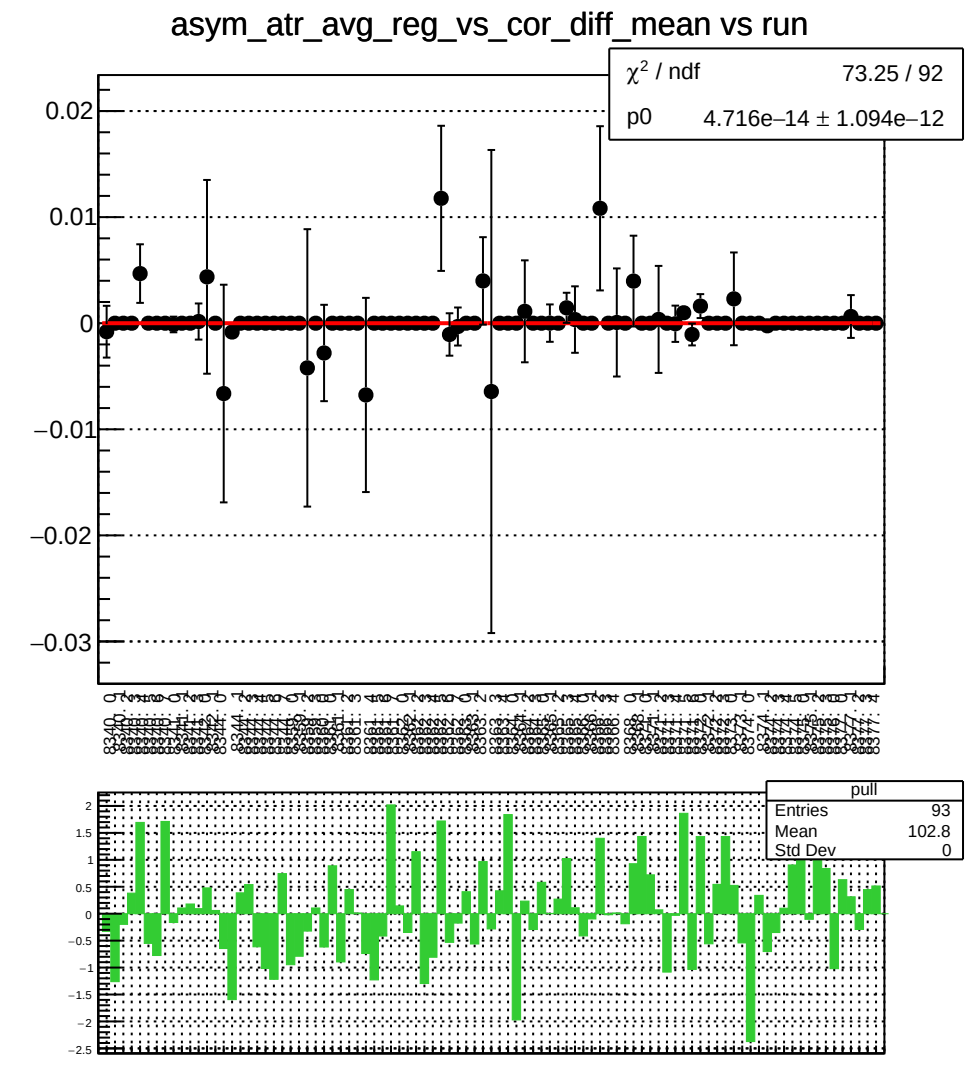

pull1D
Entries 93
Mean 0.00764
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

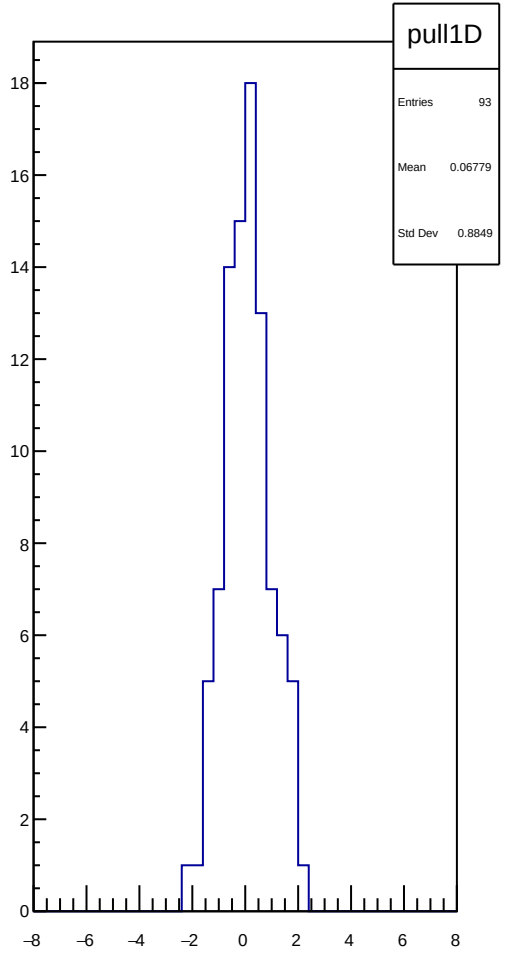

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4279 / 92
p0 7521 ± 5.561
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

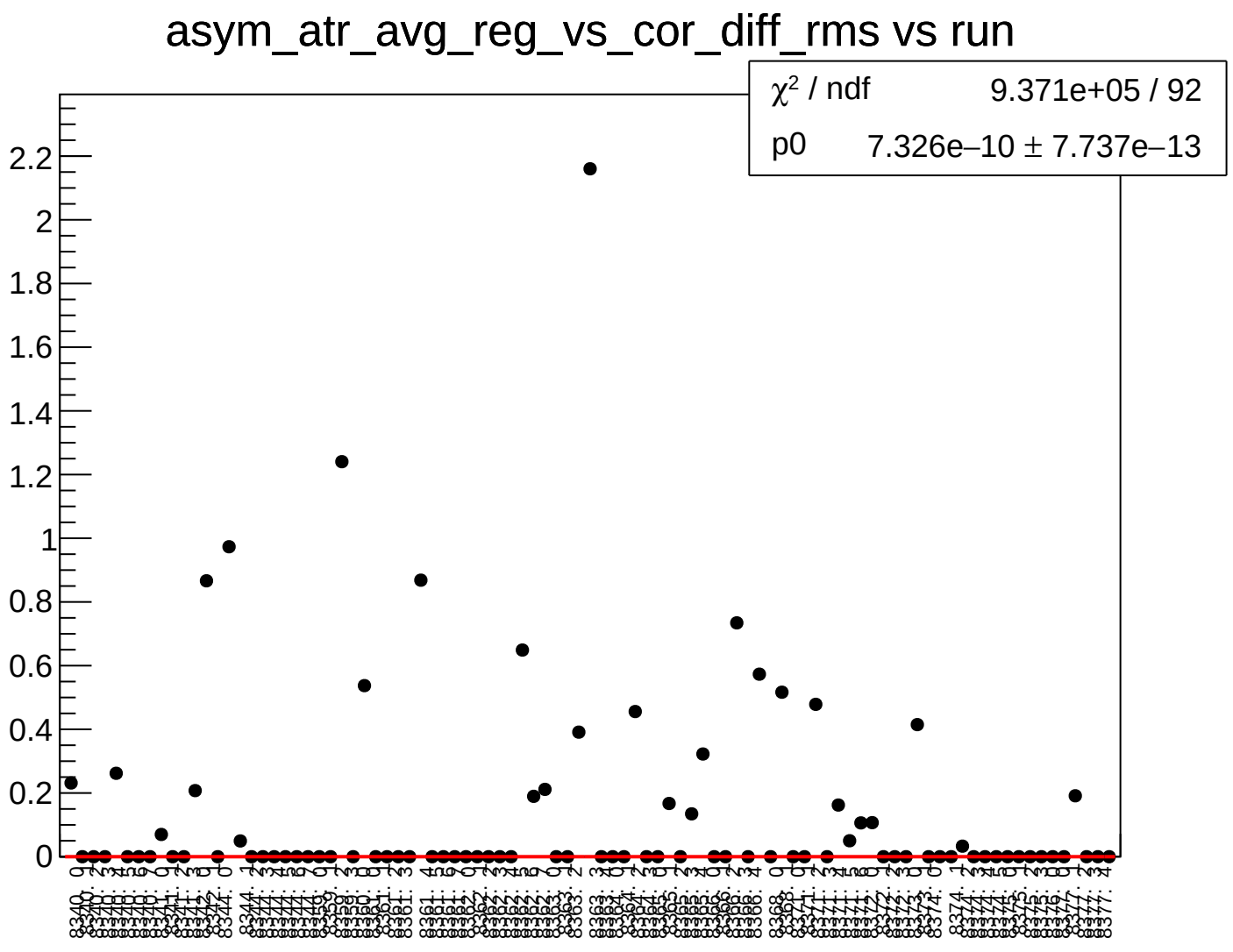

asym_atr_avg_mean vs run
×10^3
χ² / ndf 107.4 / 92
p0 1.275e+04 ± 8103
pull
Entries 93
Mean −197.1
Std Dev 0

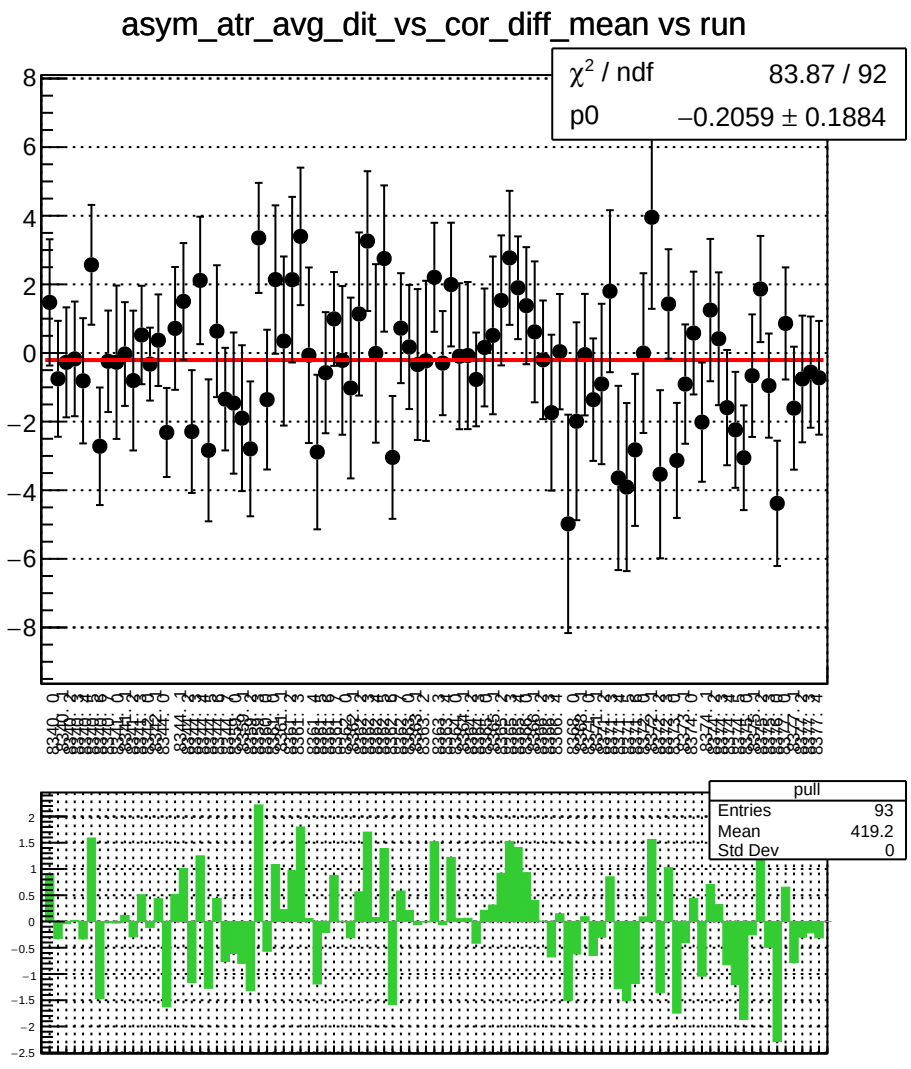

pull1D
Entries 93
Mean −0.01179
Std Dev 1.074

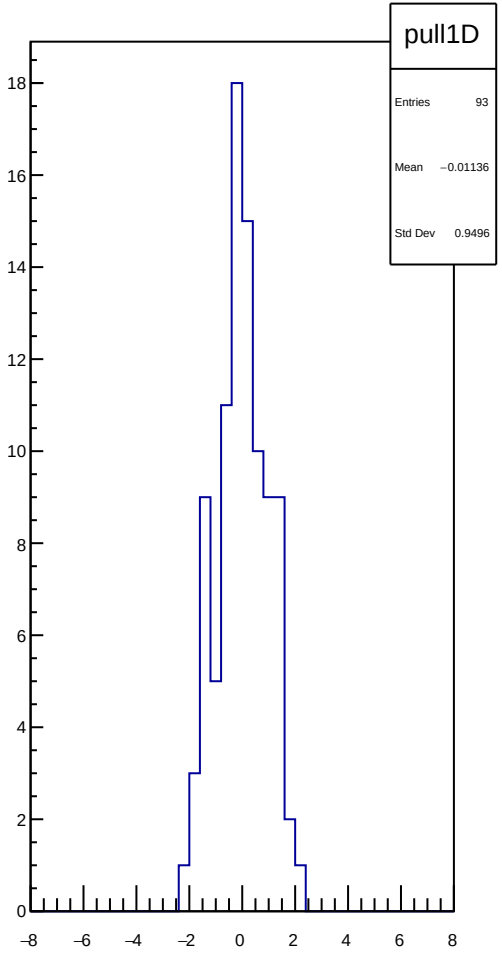

asym_atr_avg_rms vs run
χ² / ndf 4423 / 92
p0 7749 ± 5.73
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

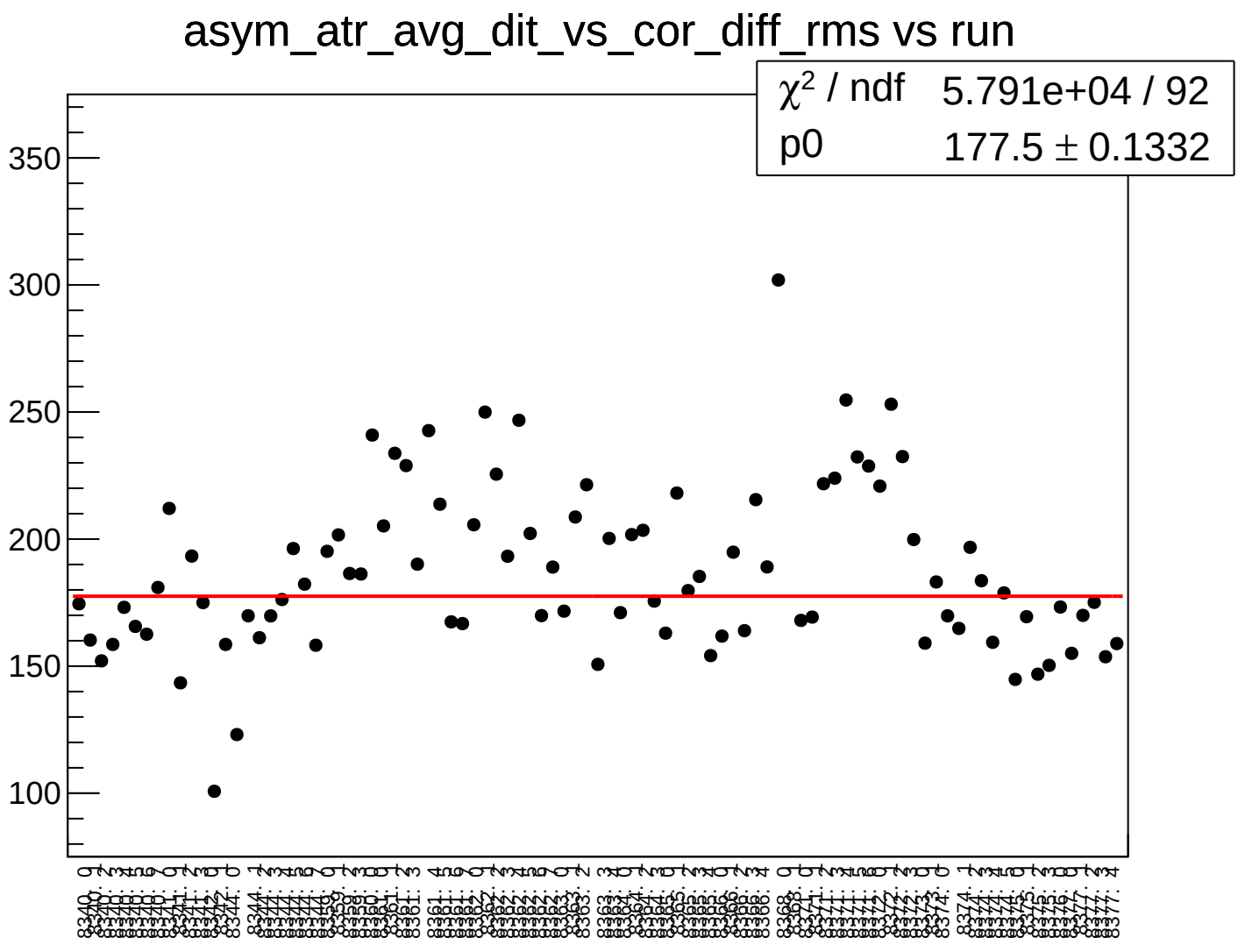

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.25 / 92
p0 4.716e−14 ± 1.094e−12
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 102.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

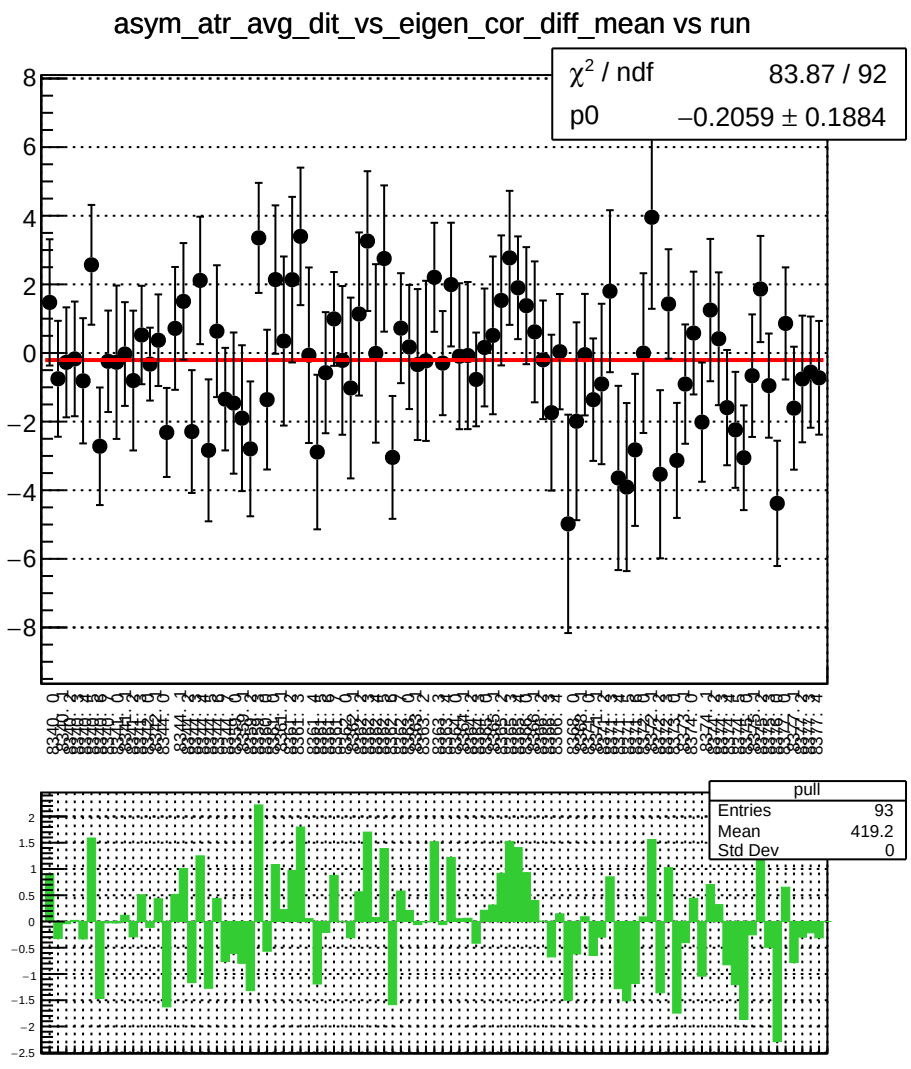

pull1D
Entries 93
Mean 0.06779
Std Dev 0.8849
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

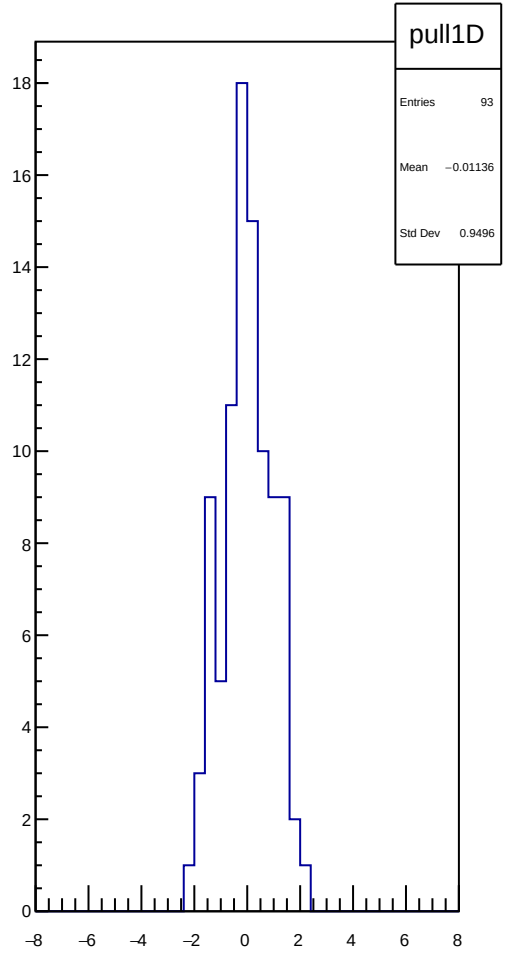

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.371e+05 / 92
p0 7.326e−10 ± 7.737e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

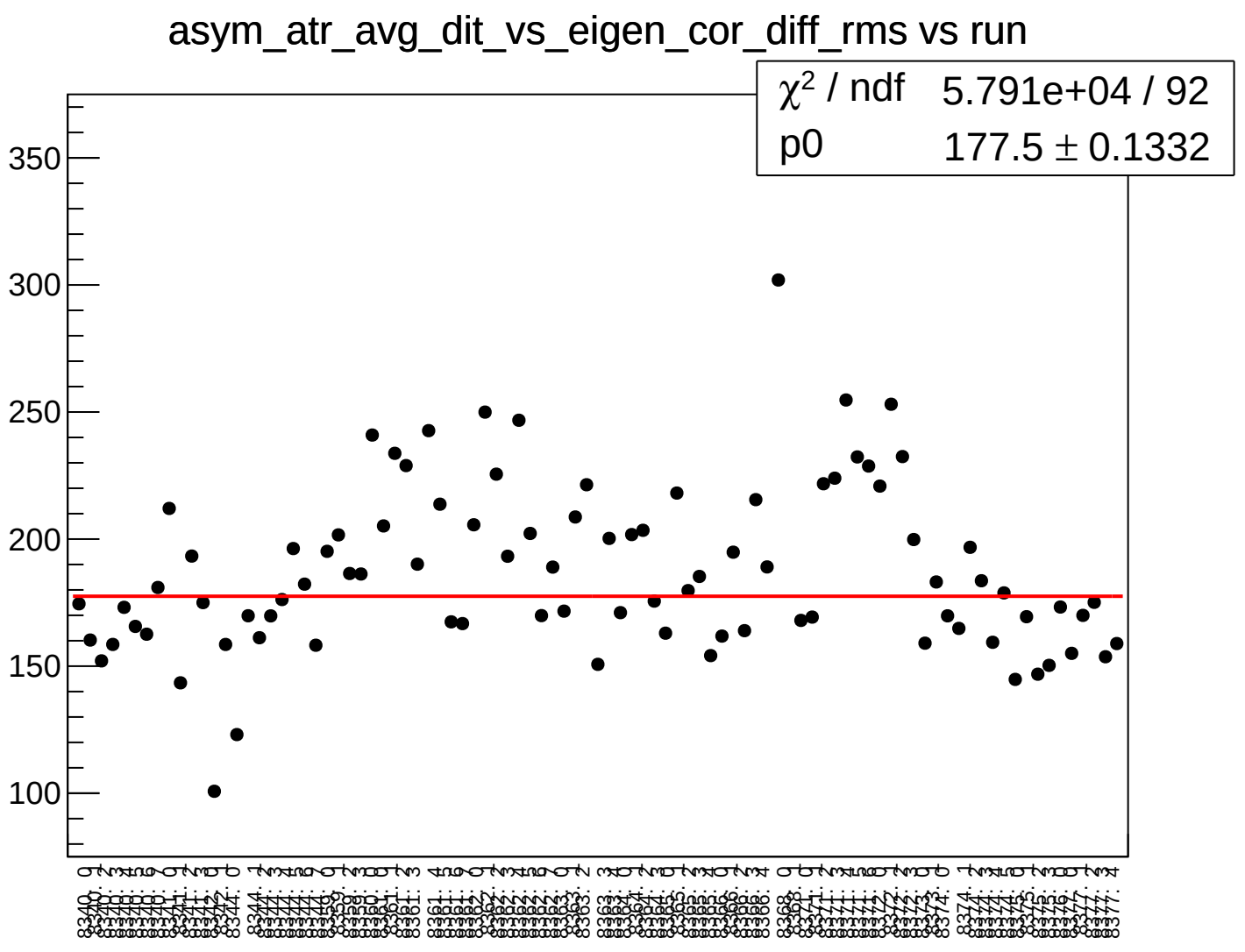

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.87 / 92
p0 −0.2059 ± 0.1884
pull
Entries 93
Mean 419.2
Std Dev 0

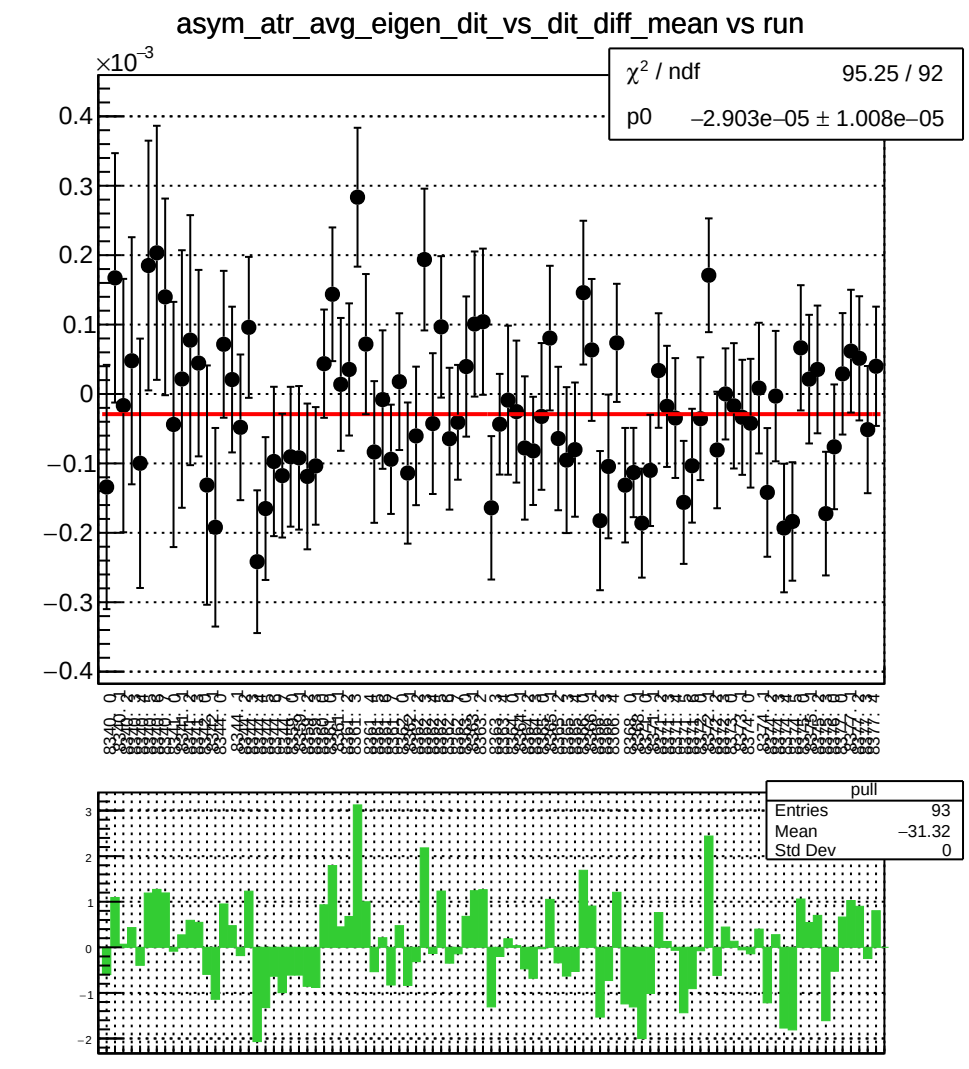

pull1D
Entries 93
Mean −0.01136
Std Dev 0.9496

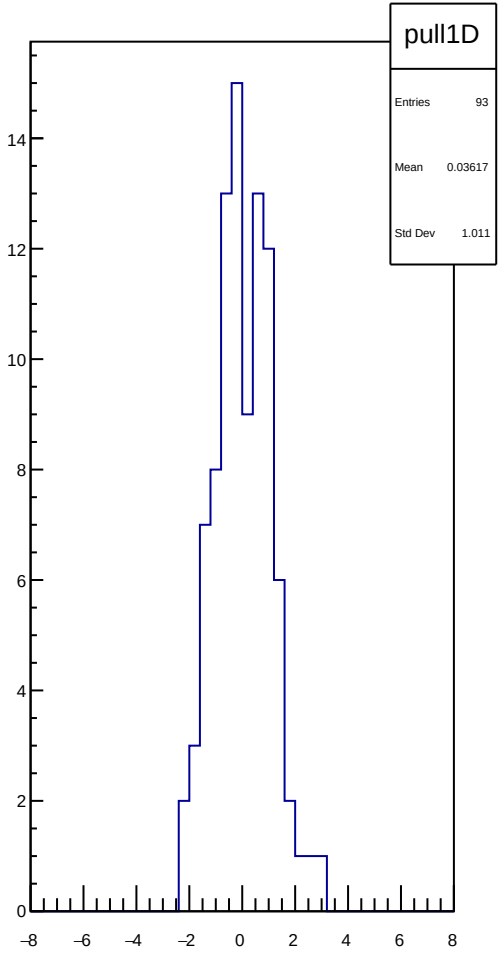

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.791e+04 / 92
p0 177.5 ± 0.1332
350
300
250
200
150
100

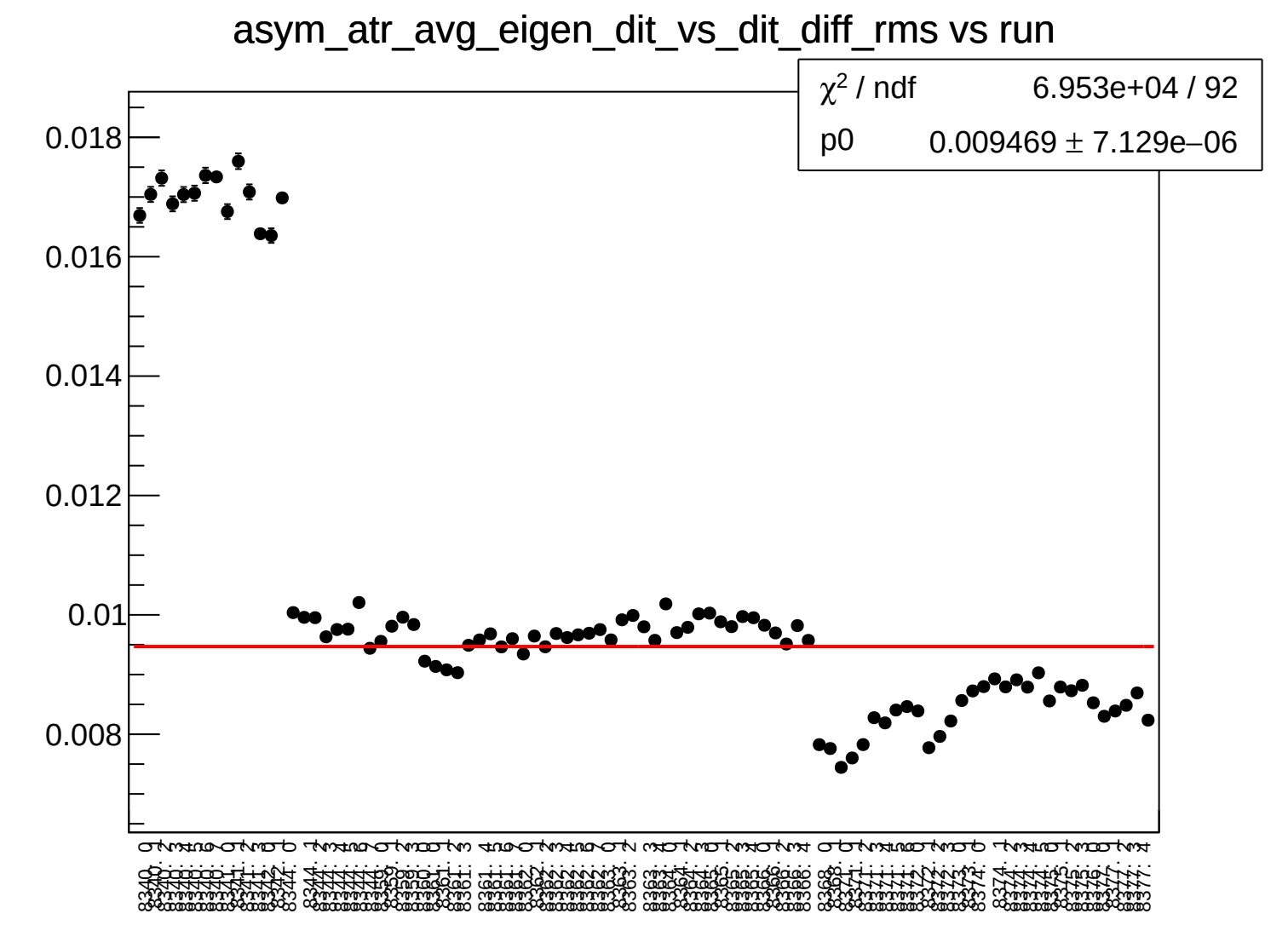

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.87 / 92
p0 −0.2059 ± 0.1884
pull
Entries 93
Mean 419.2
Std Dev 0

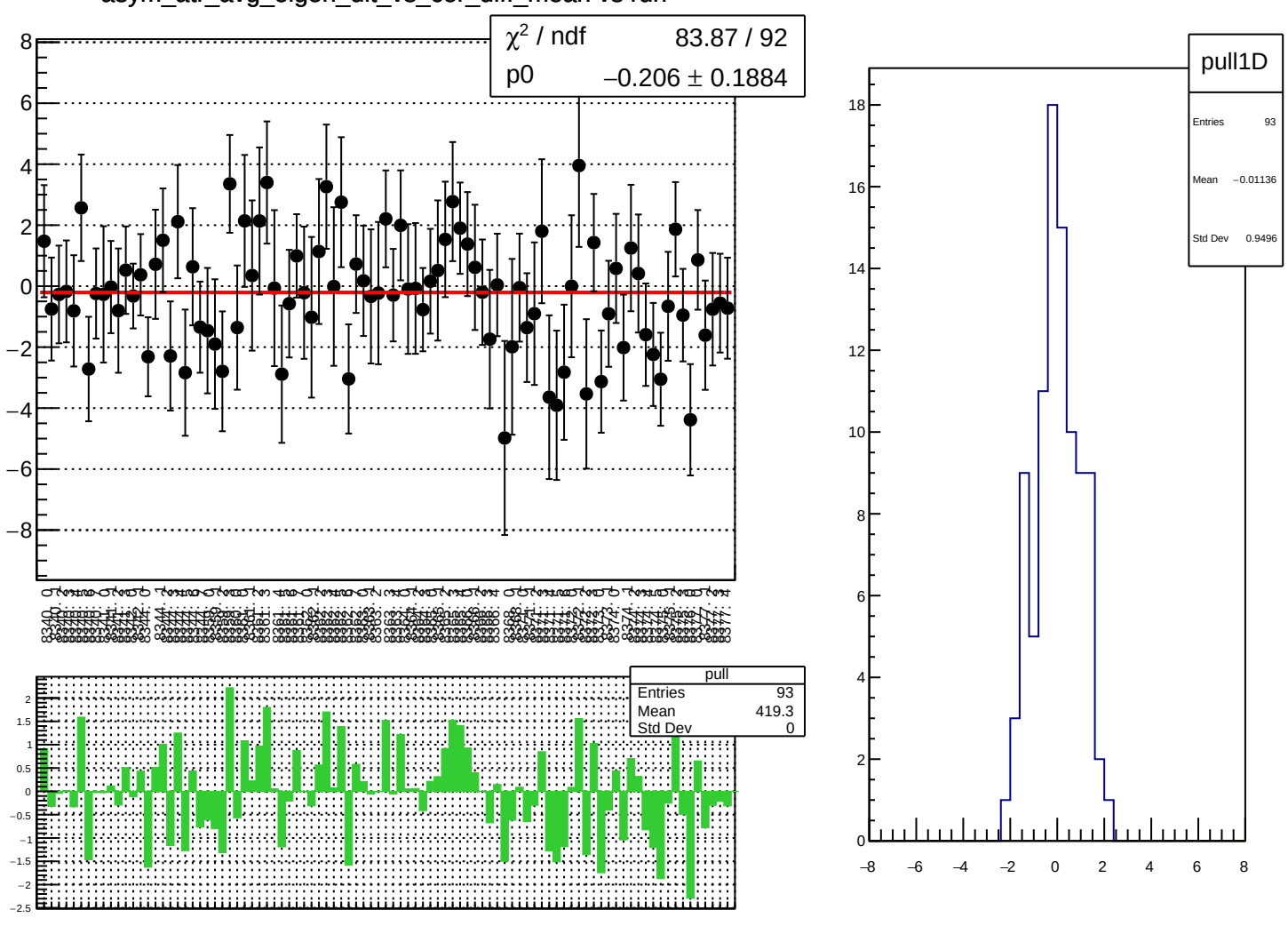

pull1D
Entries 93
Mean −0.01136
Std Dev 0.9496

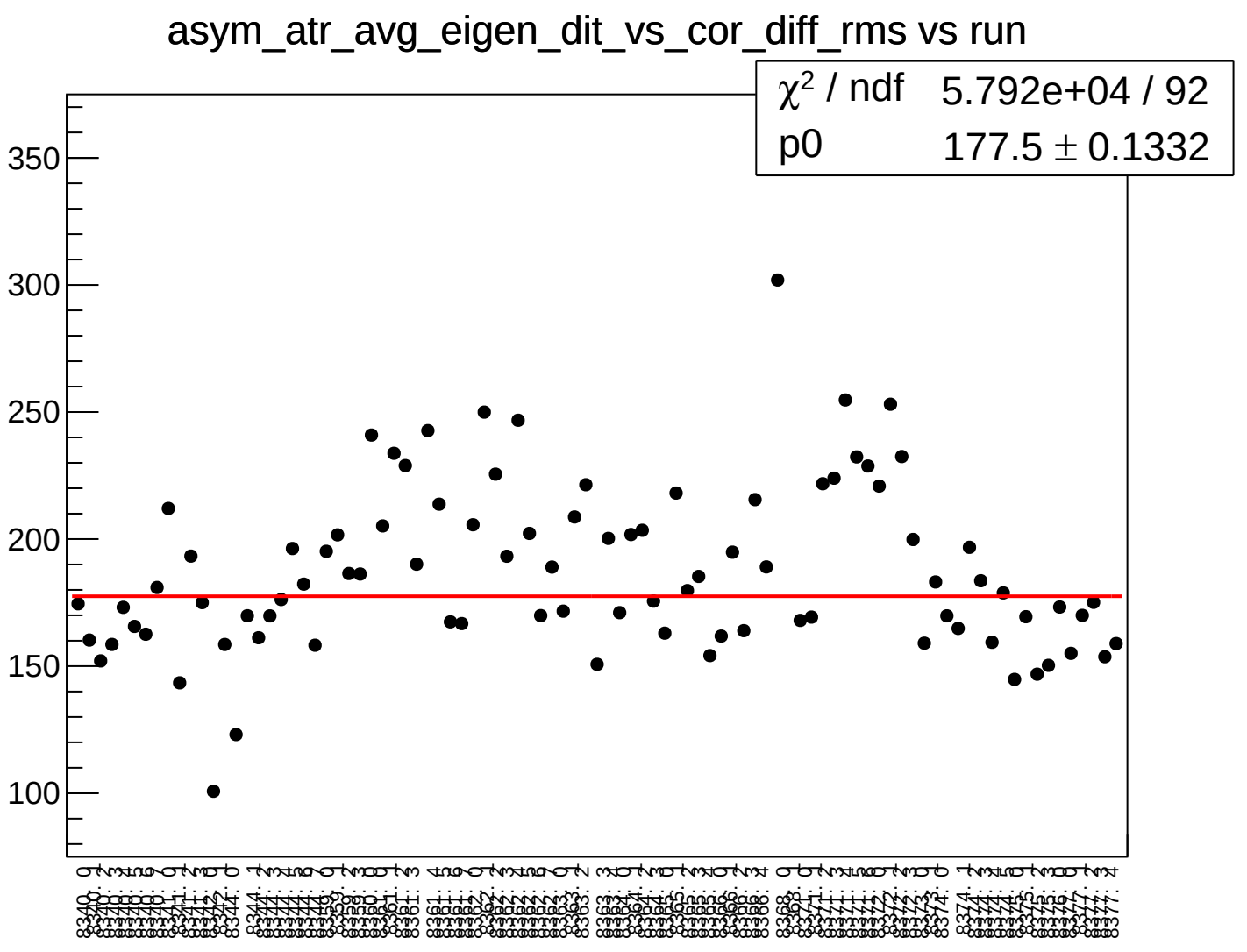

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.791e+04 / 92
p0 177.5 ± 0.1332
350
300
250
200
150
100

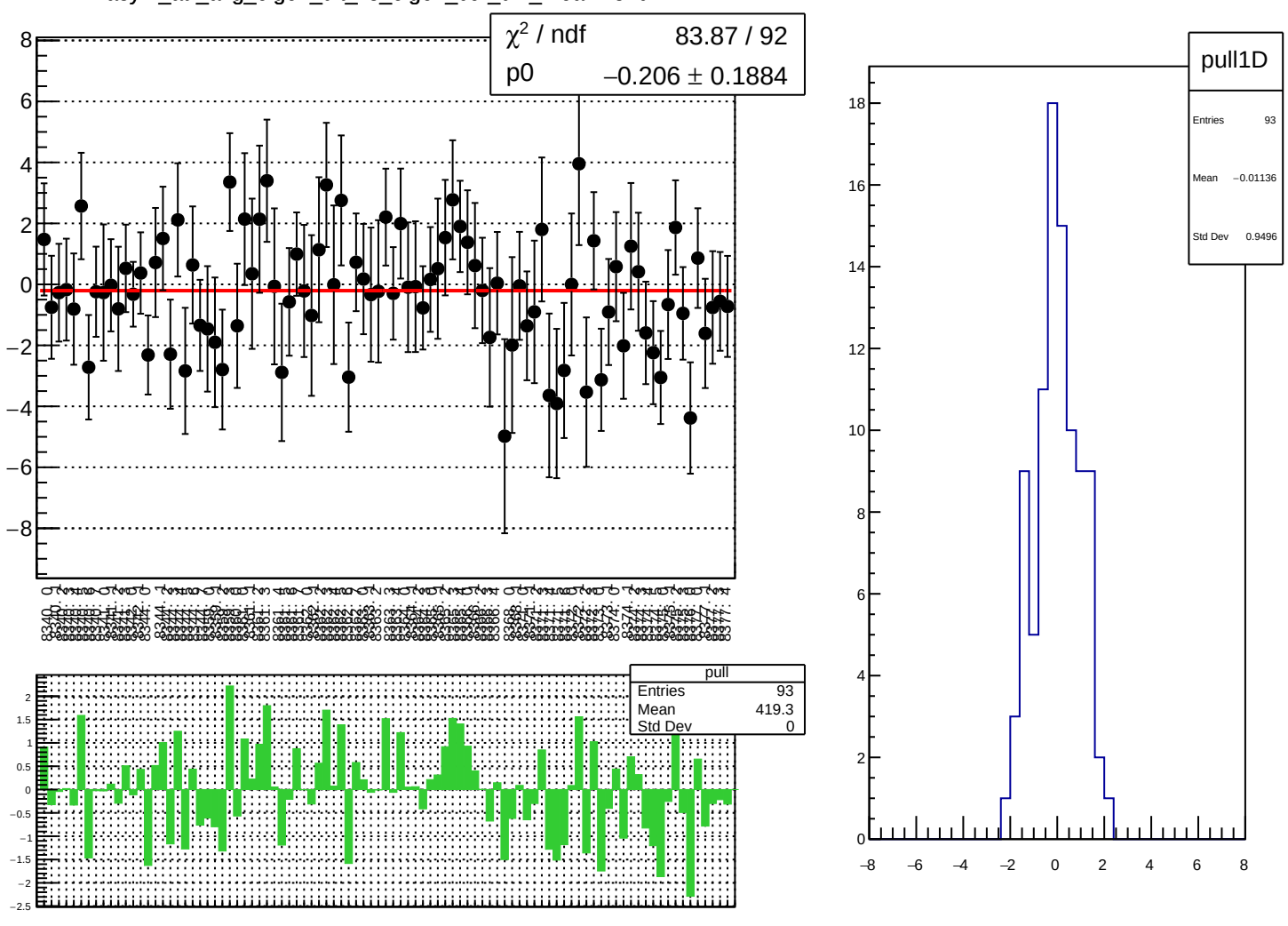

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.25 / 92
p0 −2.903e−05 ± 1.008e−05
pull
Entries 93
Mean −31.32
Std Dev 0

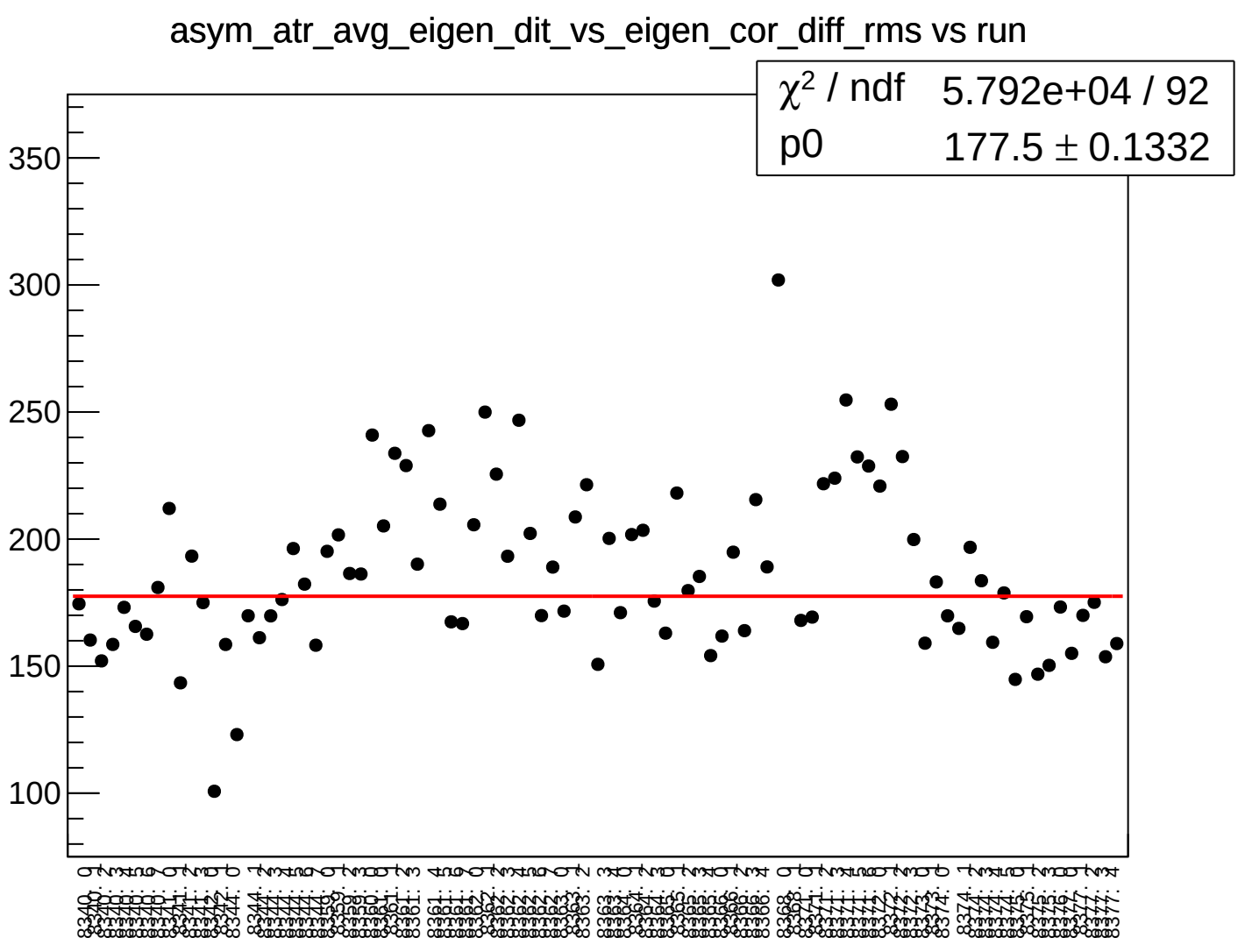

pull1D
Entries 93
Mean 0.03617
Std Dev 1.011

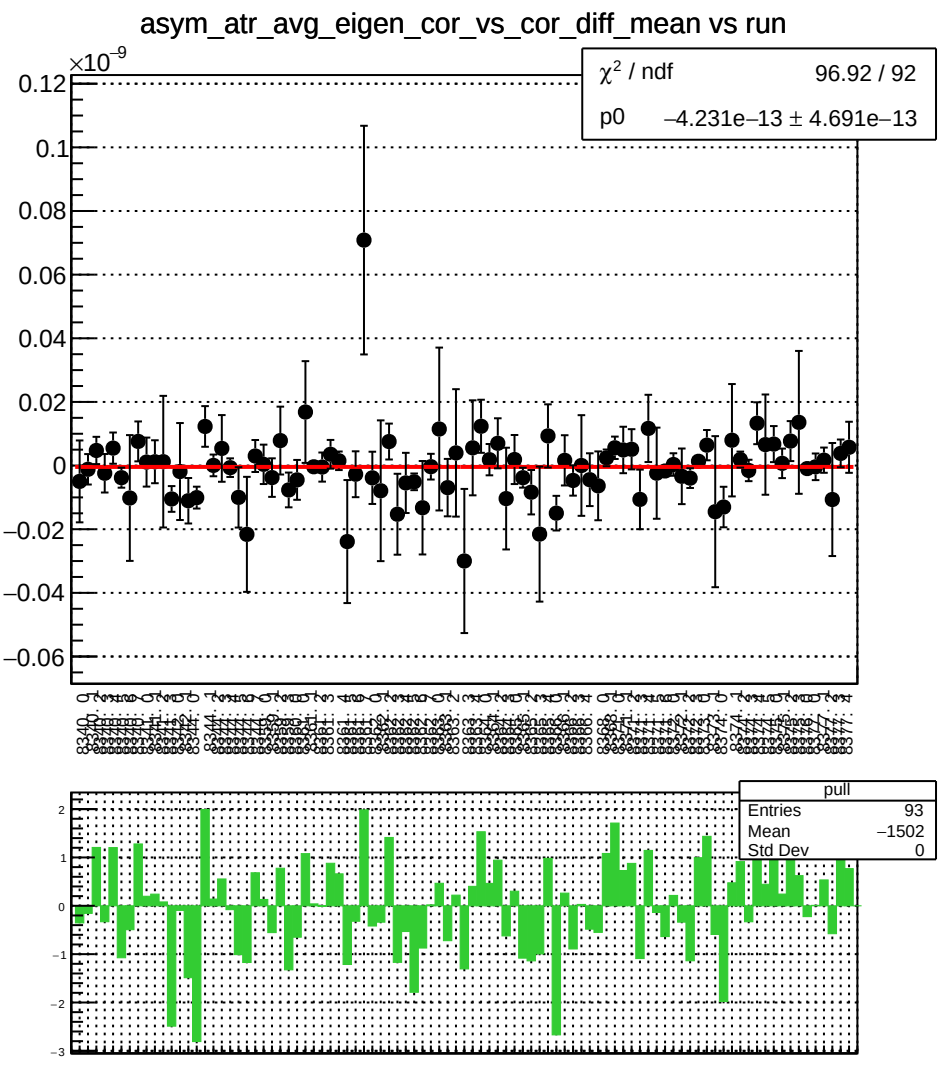

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.953e+04 / 92
p0 0.009469 ± 7.129e−06
0.018
0.016
0.014
0.012
0.01
0.008

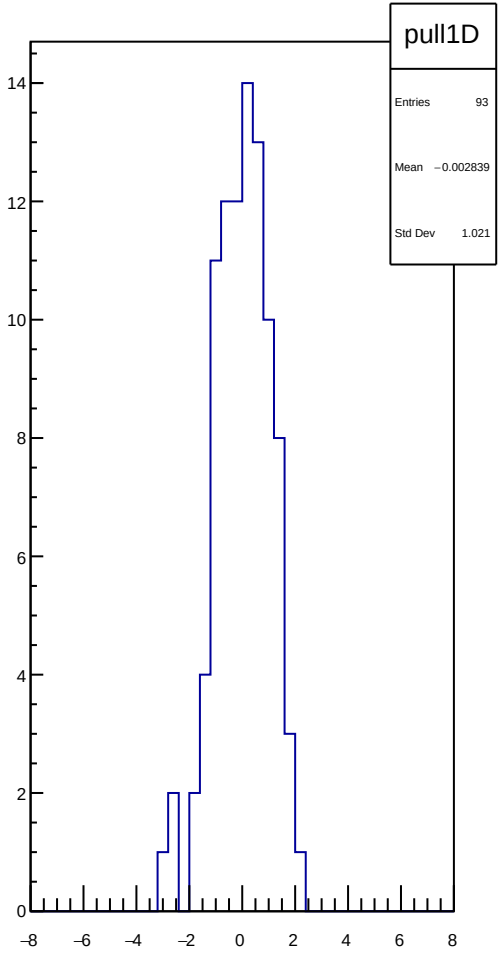

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.87 / 92
p0 −0.206 ± 0.1884
pull
Entries 93
Mean 419.3
Std Dev 0
pull1D
Entries 93
Mean −0.01136
Std Dev 0.9496

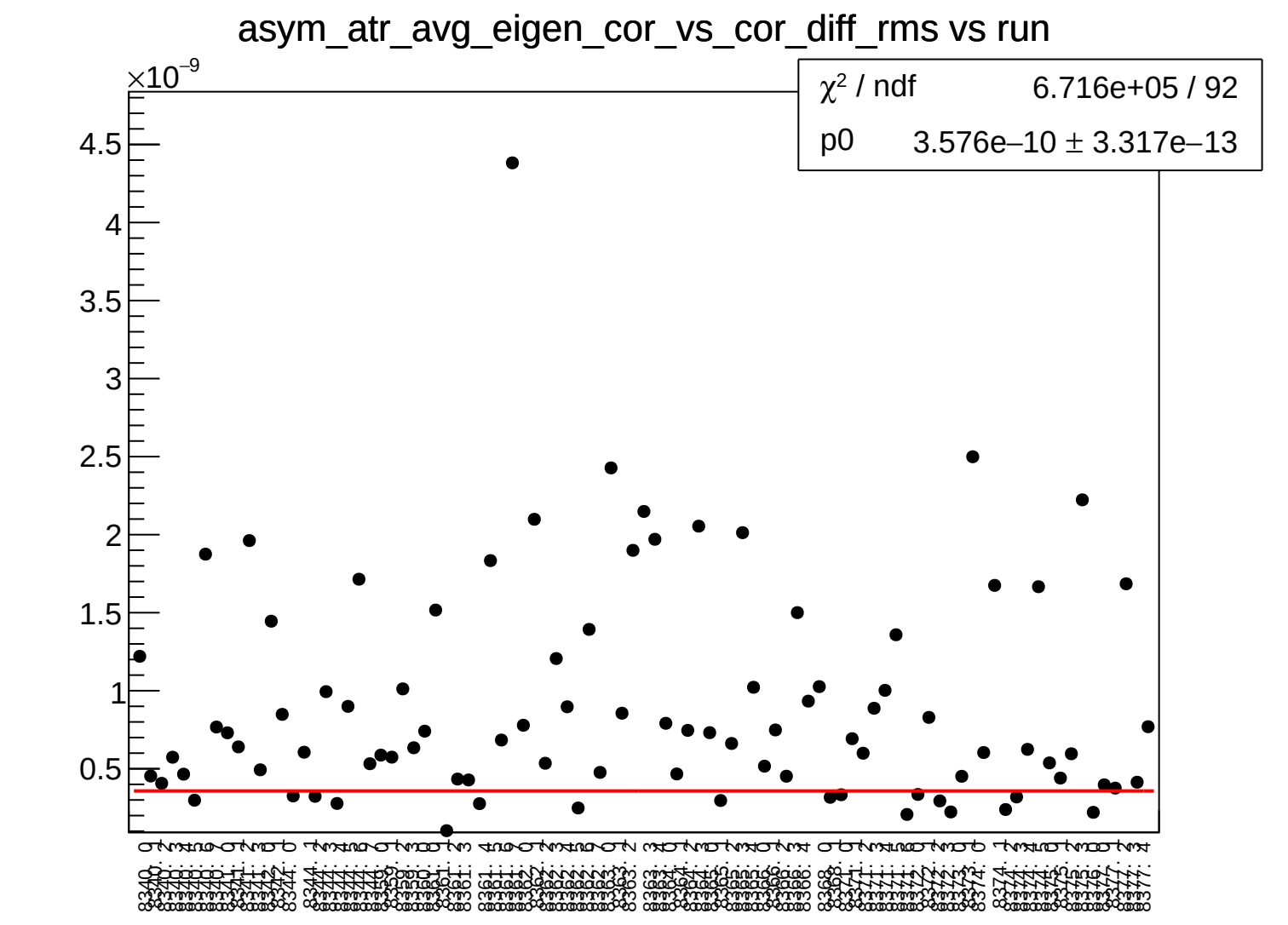

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.792e+04 / 92
p0 177.5 ± 0.1332
350
300
250
200
150
100

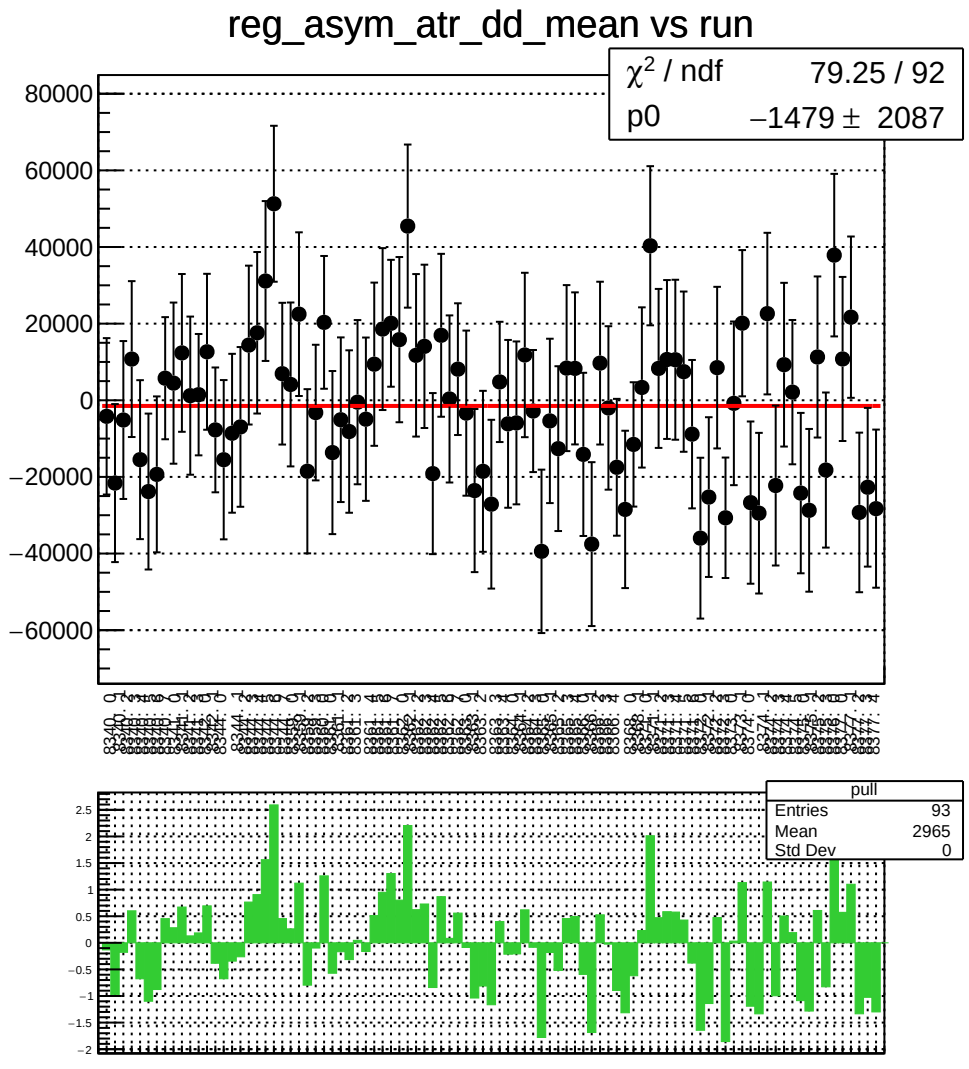

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.87 / 92
p0 −0.206 ± 0.1884
pull
Entries 93
Mean 419.3
Std Dev 0
pull1D
Entries 93
Mean −0.01136
Std Dev 0.9496

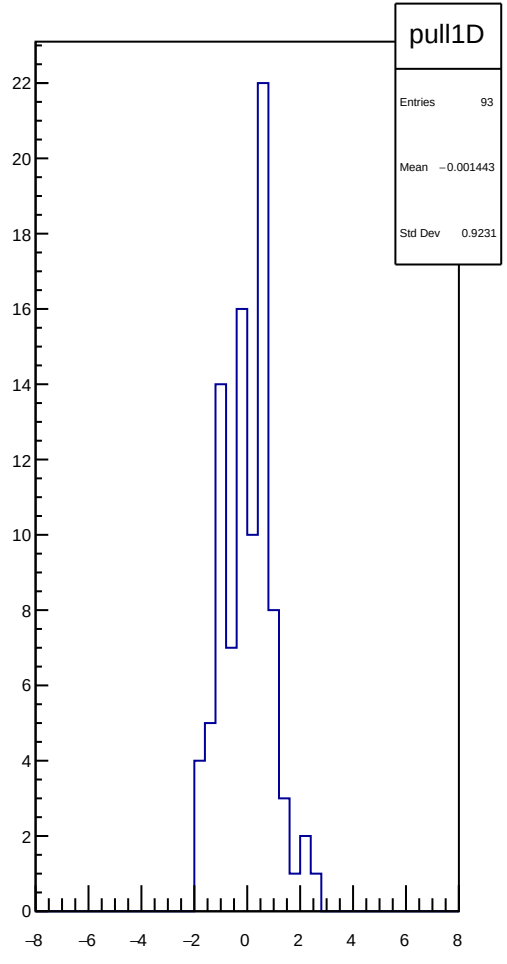

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.792e+04 / 92
p0 177.5 ± 0.1332
350
300
250
200
150
100

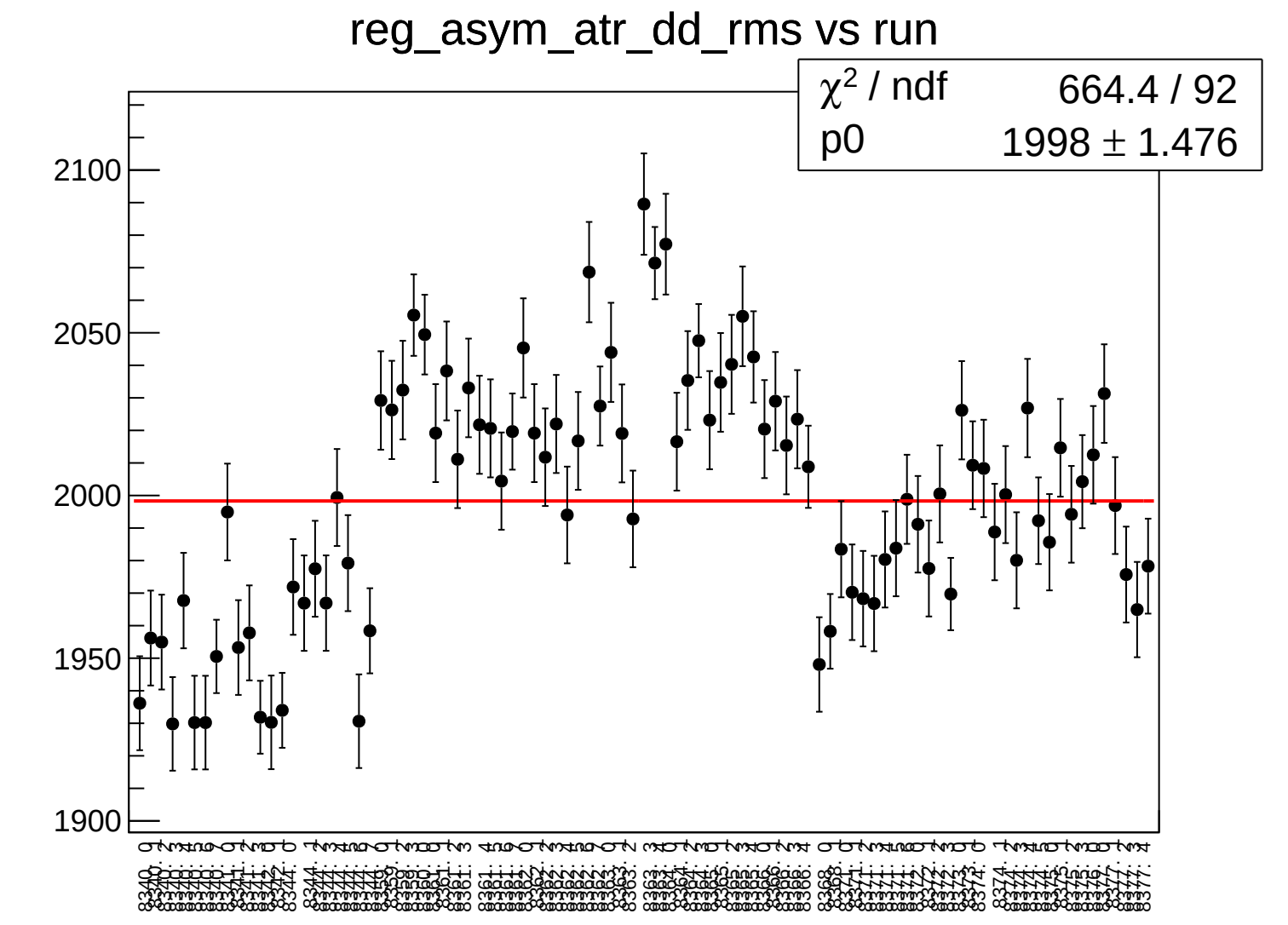

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 96.92 / 92
p0 −4.231e−13 ± 4.691e−13
pull
Entries 93
Mean −1502
Std Dev 0

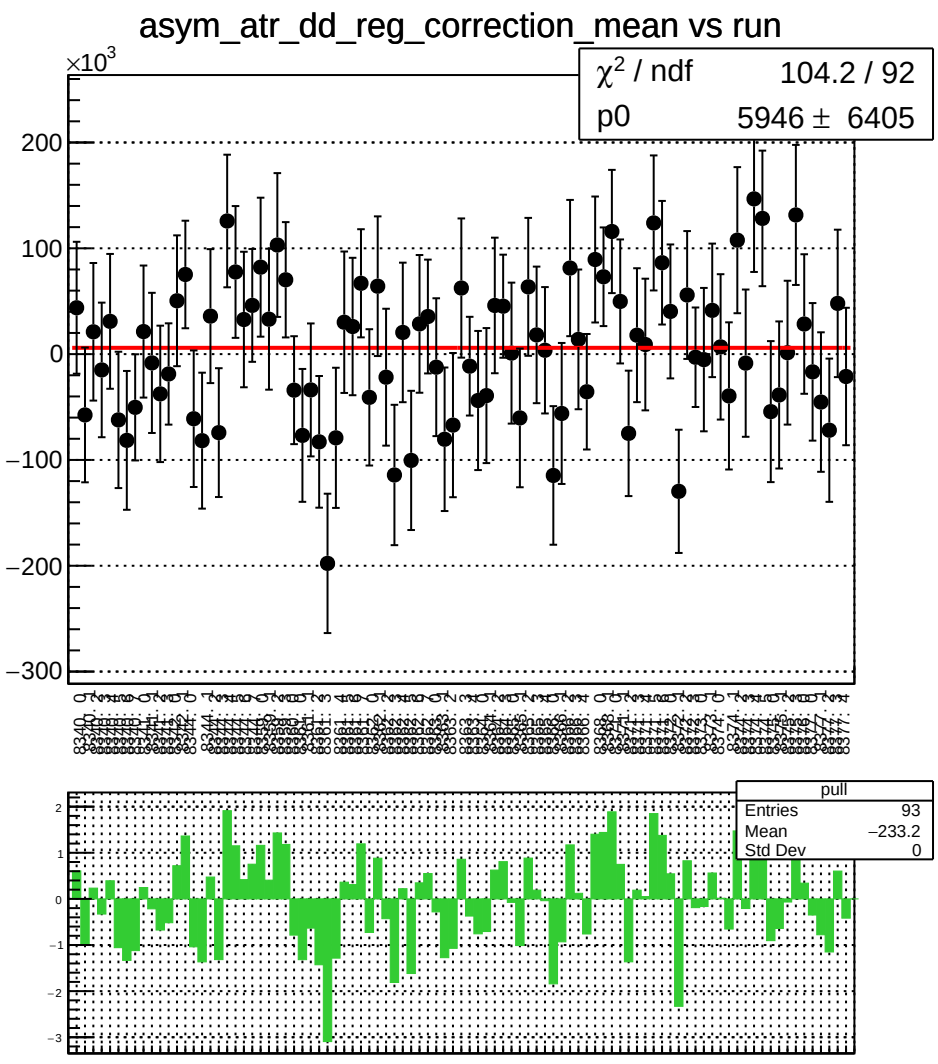

pull1D
Entries 93
Mean −0.002839
Std Dev 1.021

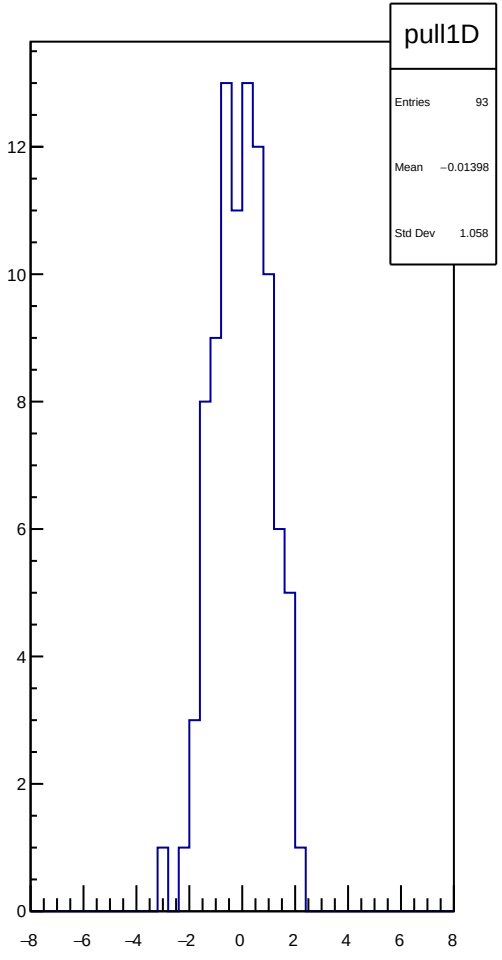

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.716e+05 / 92
p0 3.576e−10 ± 3.317e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

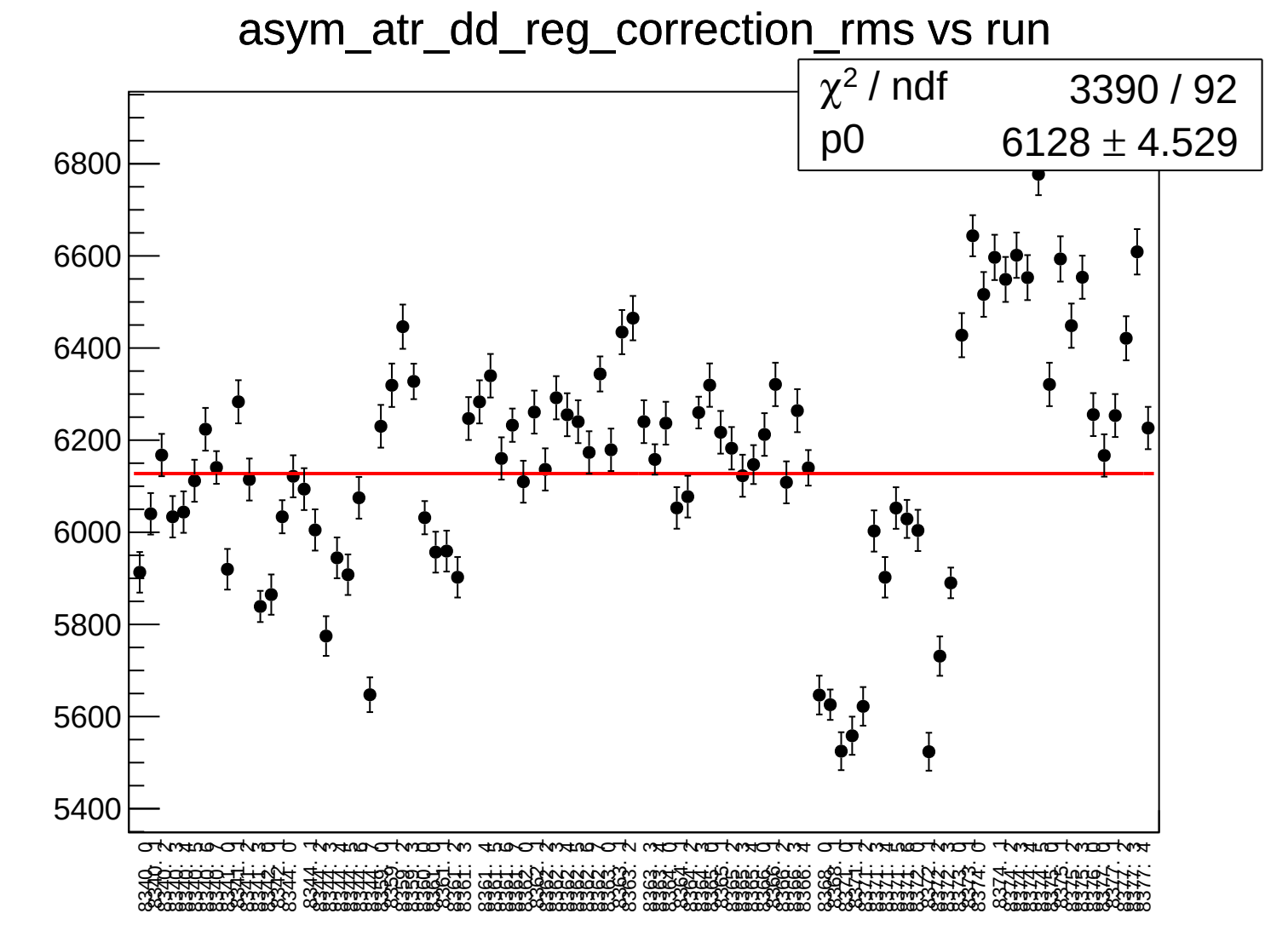

reg_asym_atr_dd_mean vs run
χ² / ndf 79.25 / 92
p0 −1479 ± 2087
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2965
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

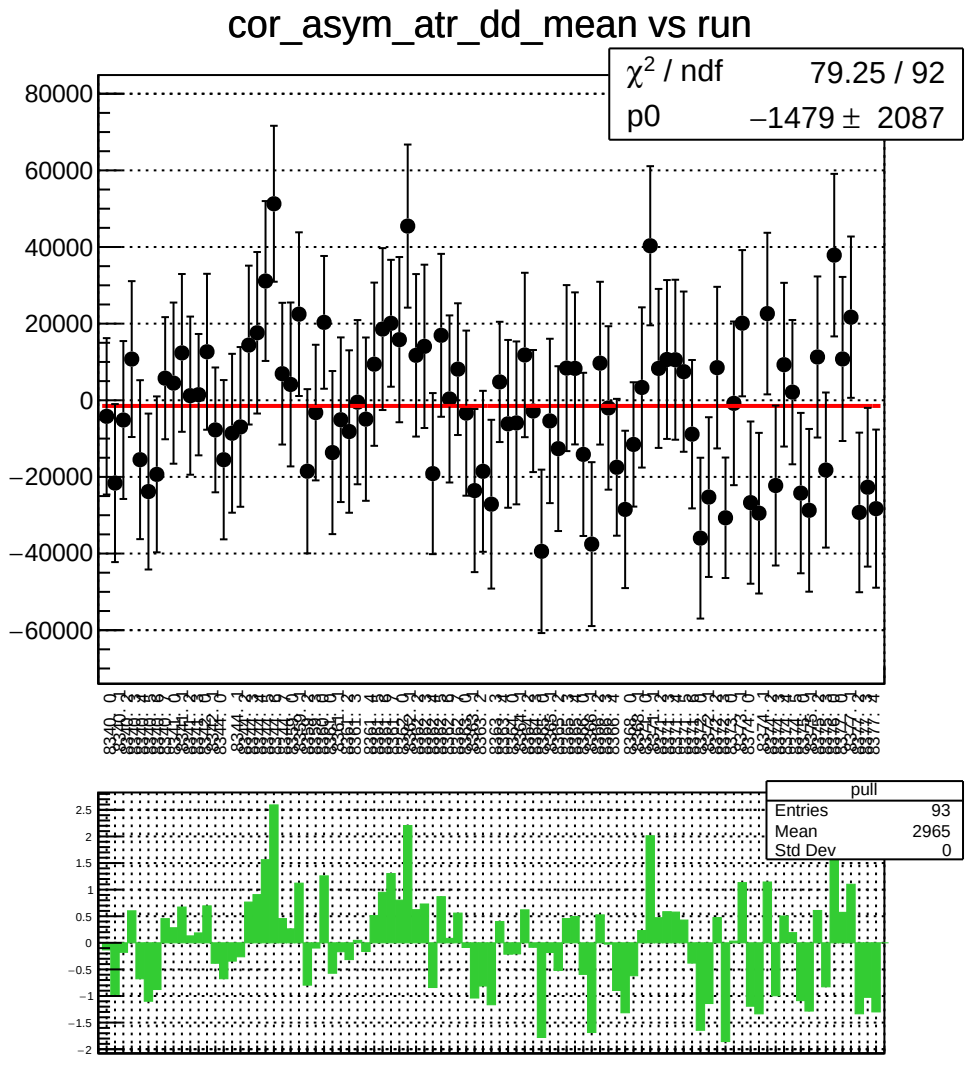

pull1D
Entries 93
Mean −0.001443
Std Dev 0.9231
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

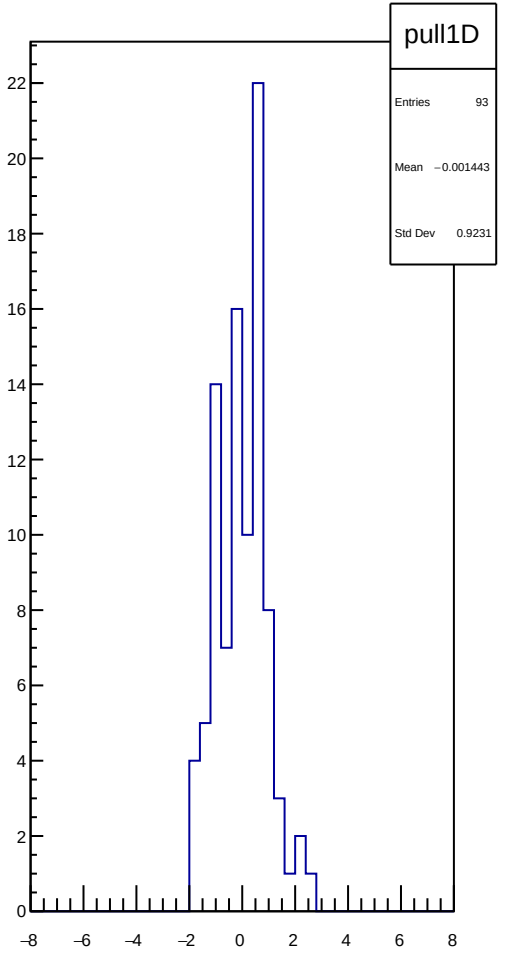

reg_asym_atr_dd_rms vs run
χ² / ndf 664.4 / 92
p0 1998 ± 1.476
2100
2050
2000
1950
1900

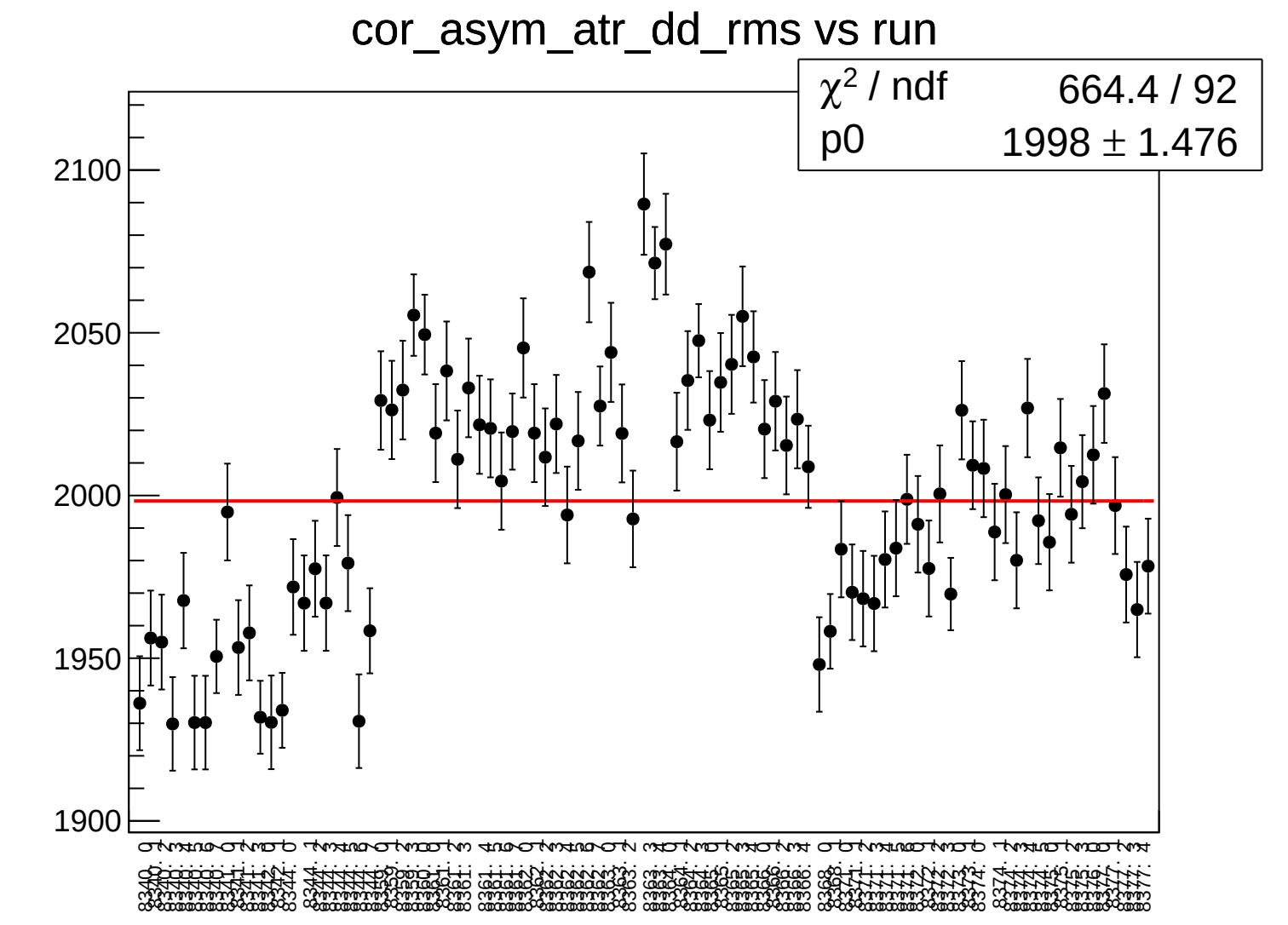

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104.2 / 92
p0 5946 ± 6405
200
100
0
−100
−200
−300
pull
Entries 93
Mean −233.2
Std Dev 0
2
1
0
−1
−2
−3

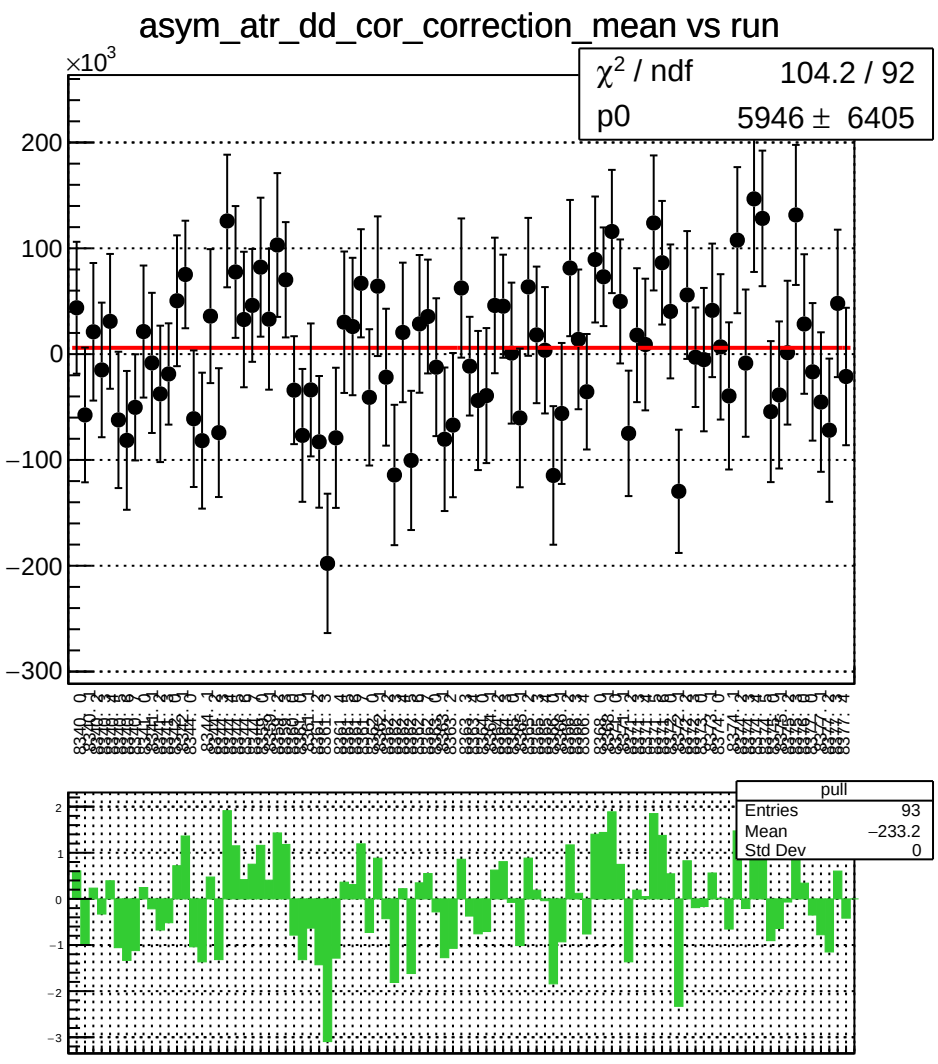

pull1D
Entries 93
Mean −0.01398
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

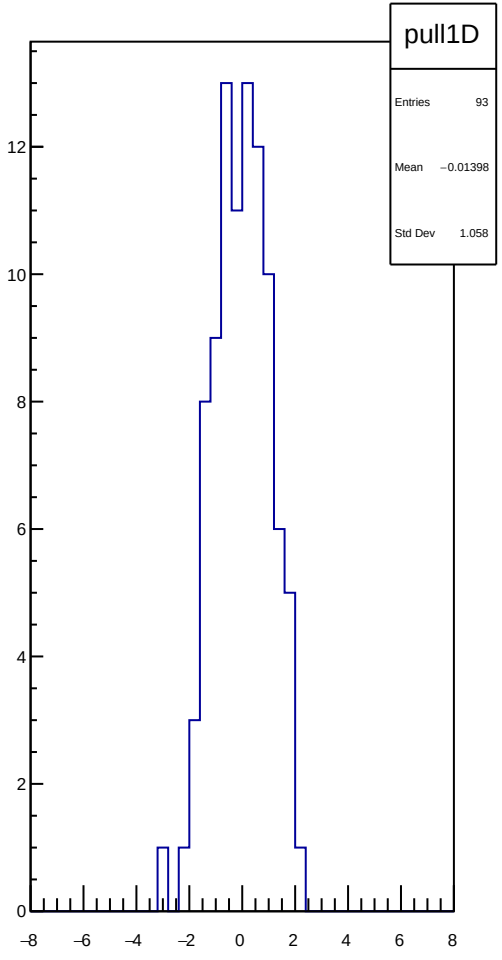

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3390 / 92
p0 6128 ± 4.529
6800
6600
6400
6200
6000
5800
5600
5400

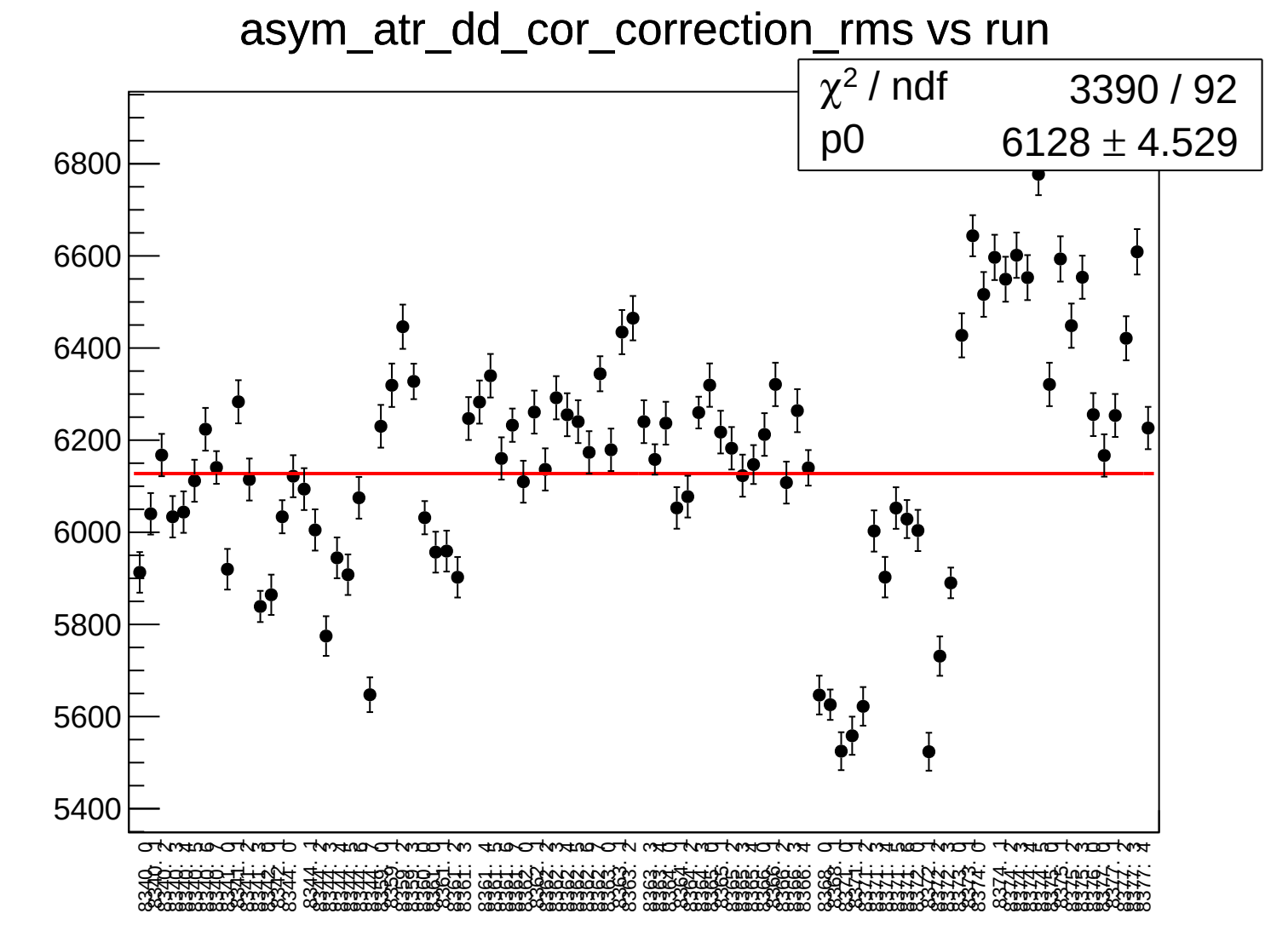

cor_asym_atr_dd_mean vs run
χ² / ndf 79.25 / 92
p0 −1479 ± 2087
pull
Entries 93
Mean 2965
Std Dev 0

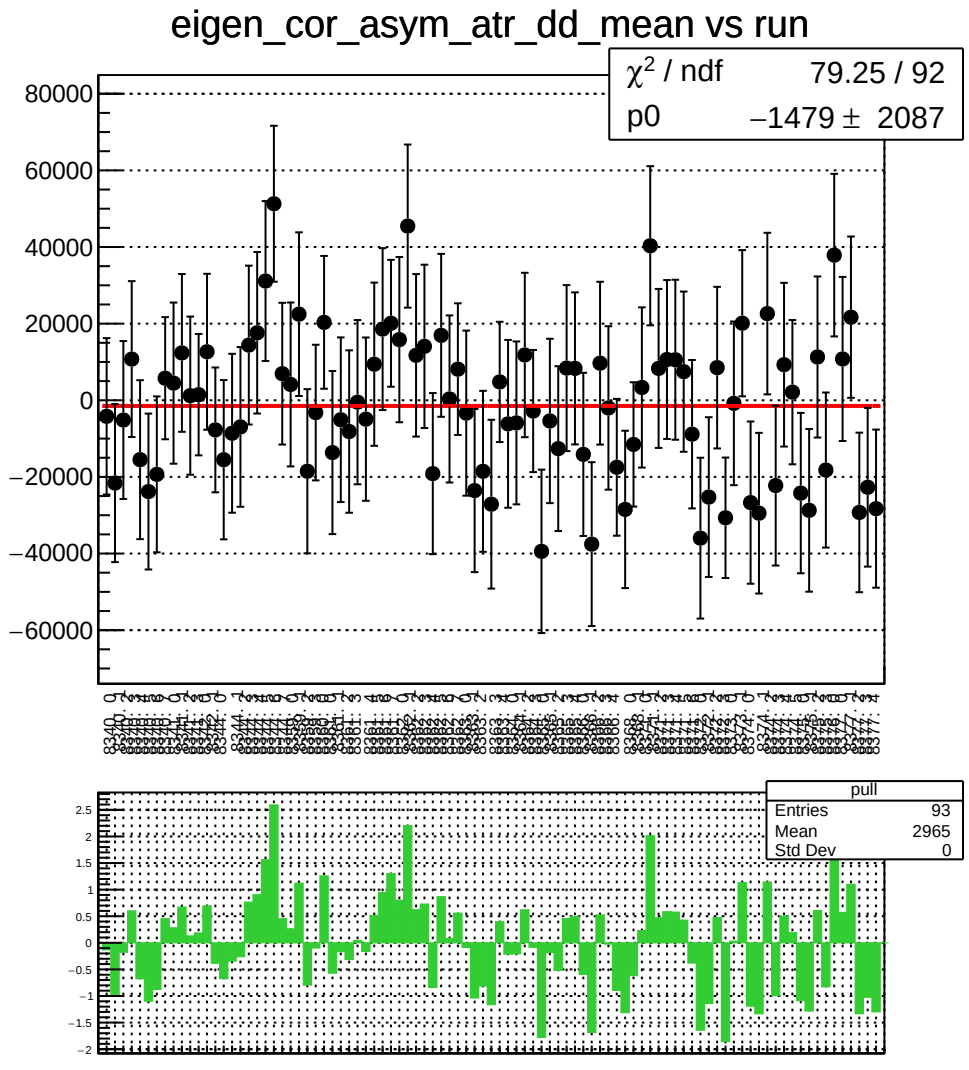

pull1D
Entries 93
Mean −0.001443
Std Dev 0.9231

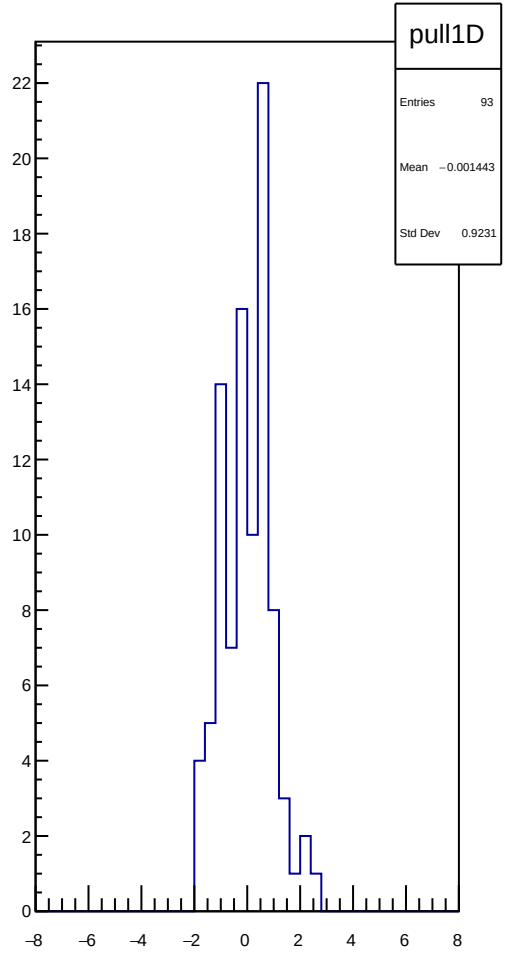

cor_asym_atr_dd_rms vs run
χ^2 / ndf 664.4 / 92
p0 1998 ± 1.476
2100
2050
2000
1950
1900

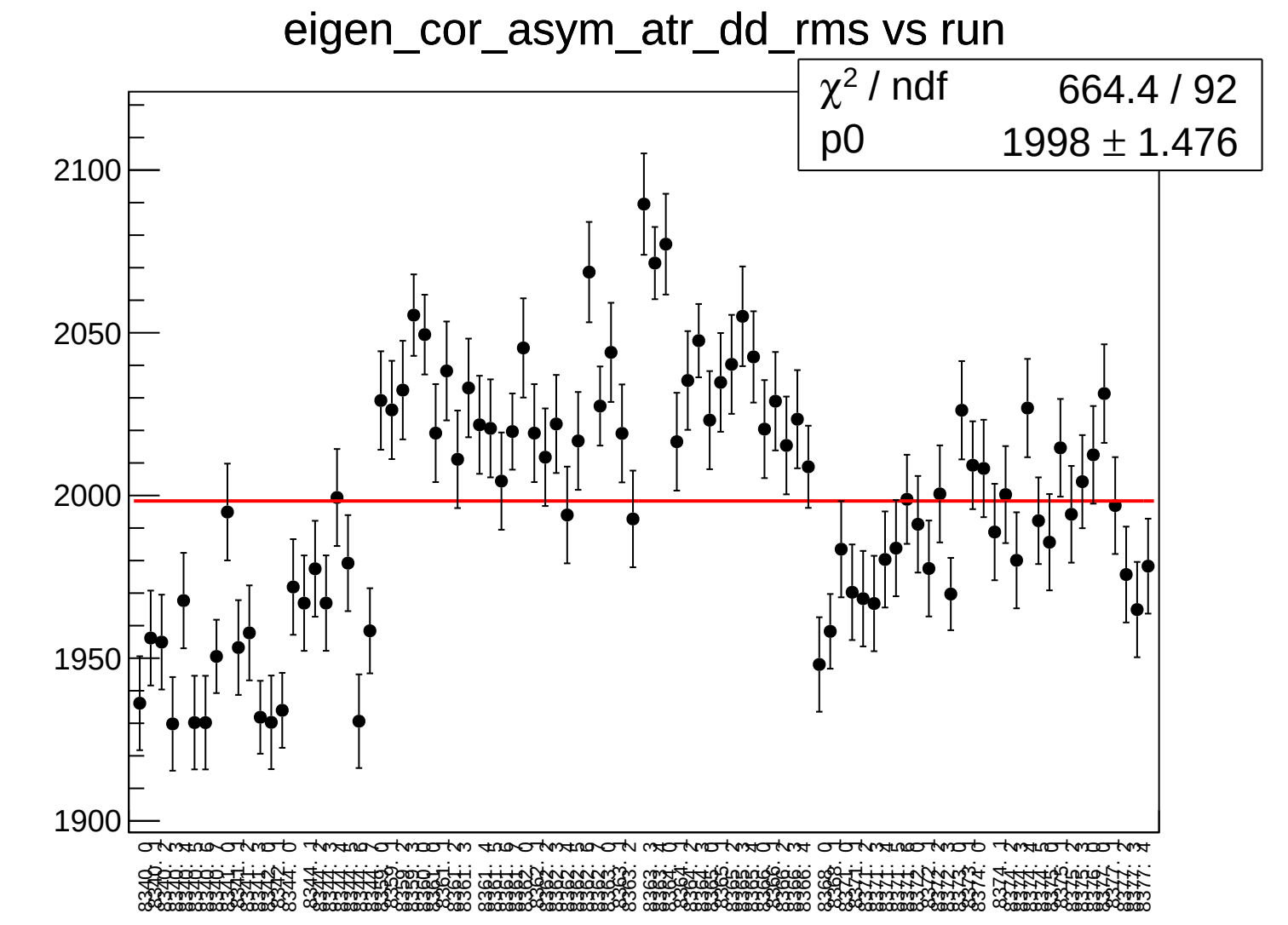

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104.2 / 92
p0 5946 ± 6405
200
100
0
−100
−200
−300
pull
Entries 93
Mean −233.2
Std Dev 0
2
1
0
−1
−2
−3

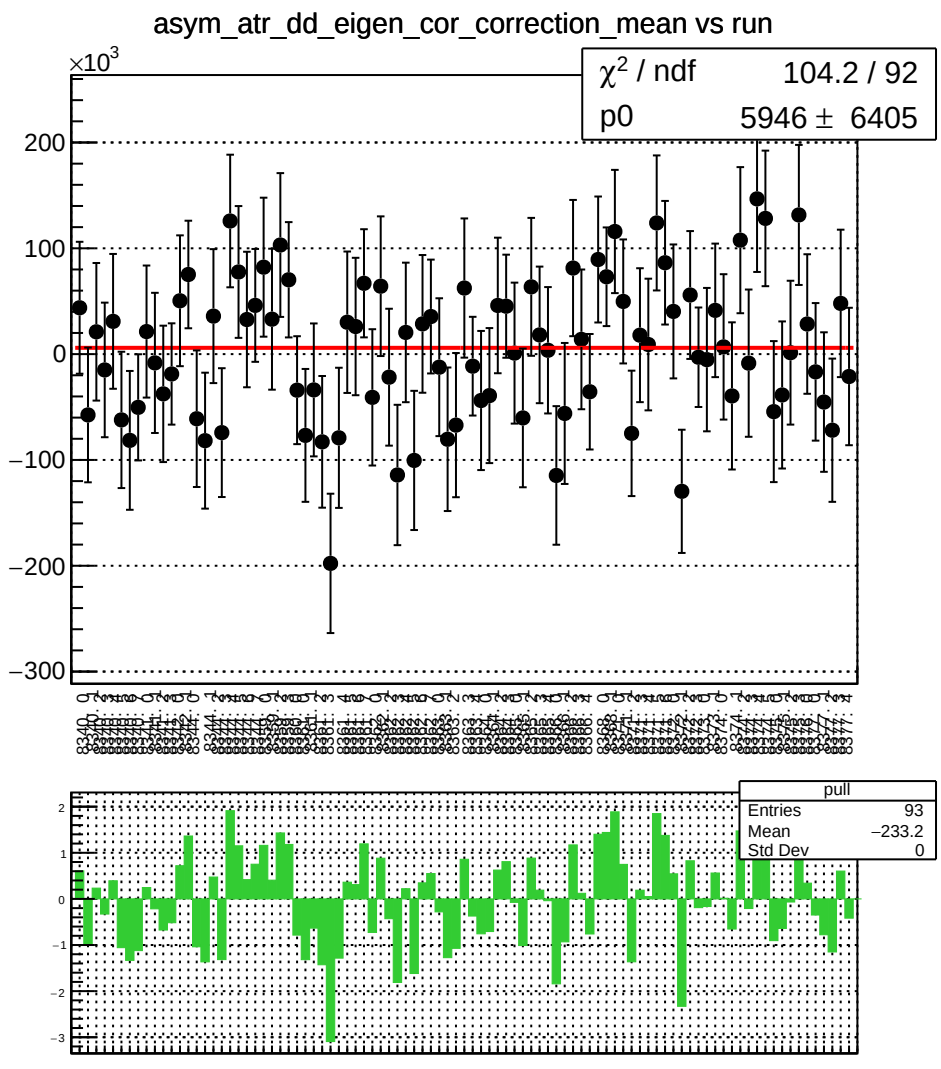

pull1D
Entries 93
Mean −0.01398
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

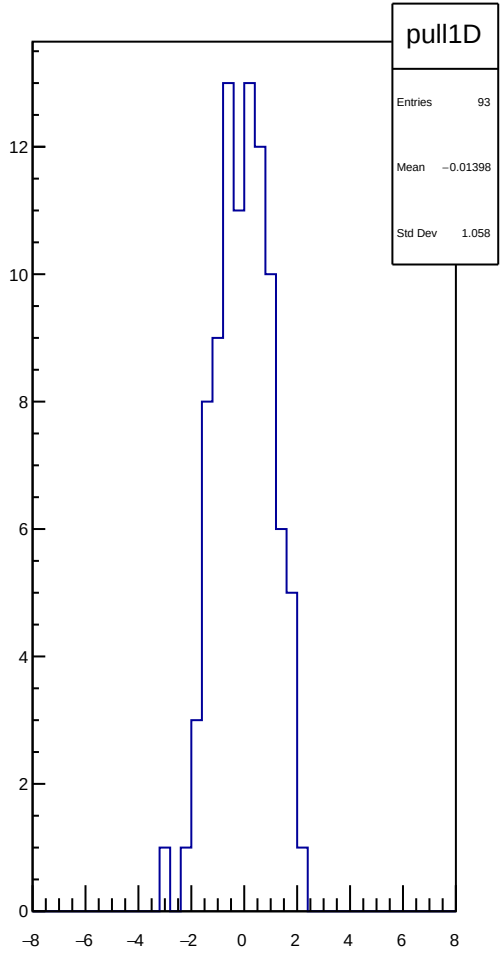

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3390 / 92
p0 6128 ± 4.529
6800
6600
6400
6200
6000
5800
5600
5400

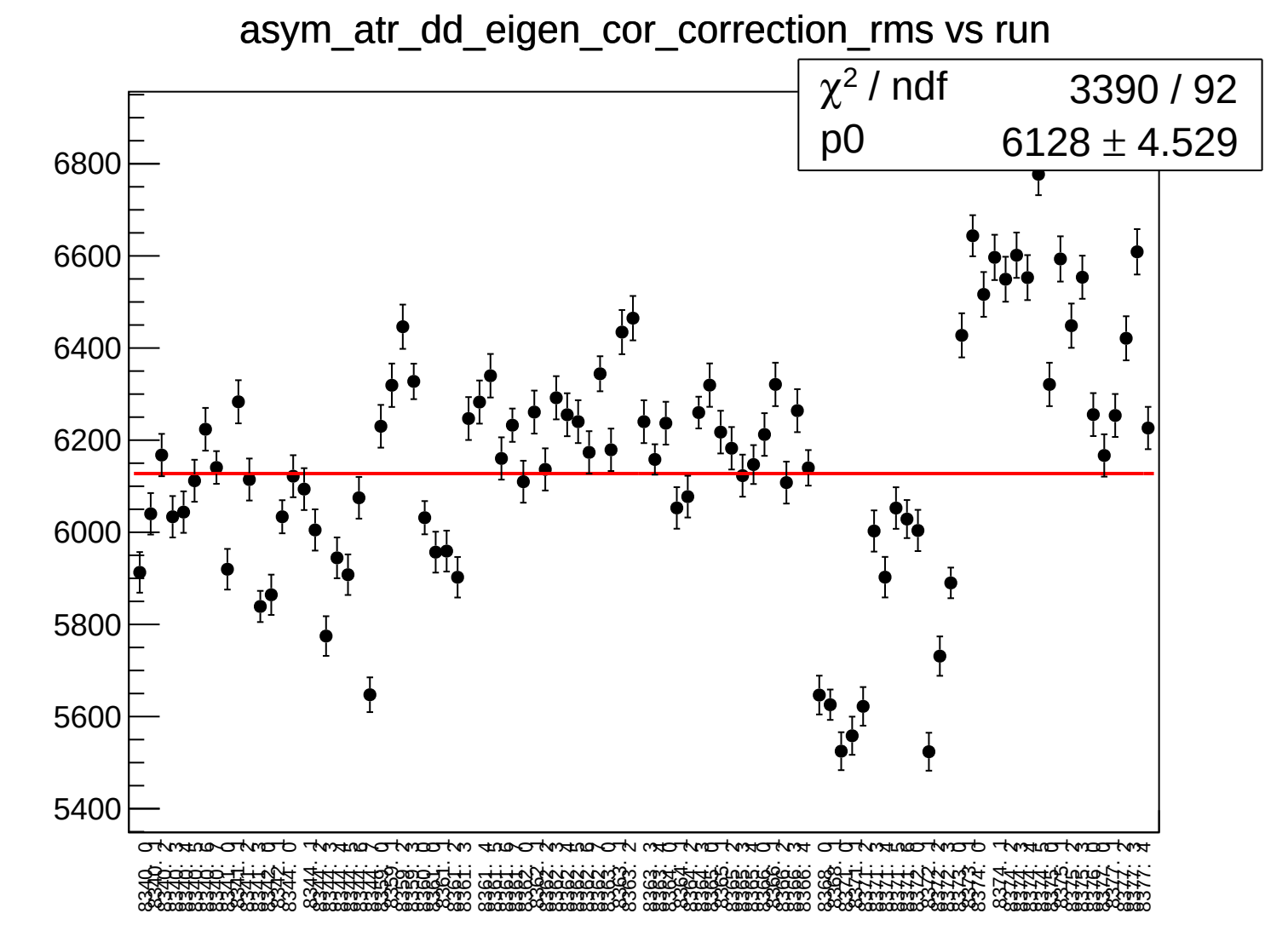

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 79.25 / 92
p0 −1479 ± 2087
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2965
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

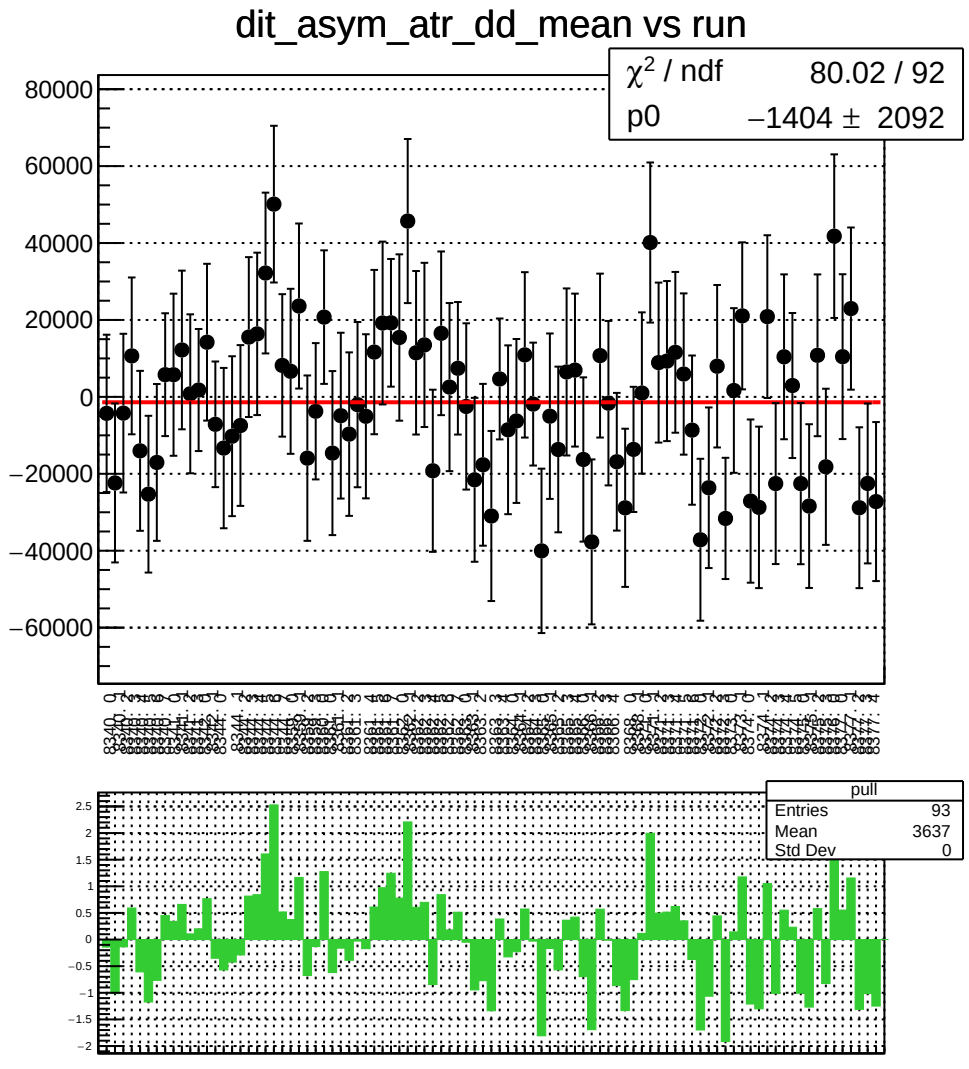

pull1D
Entries 93
Mean −0.001443
Std Dev 0.9231
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

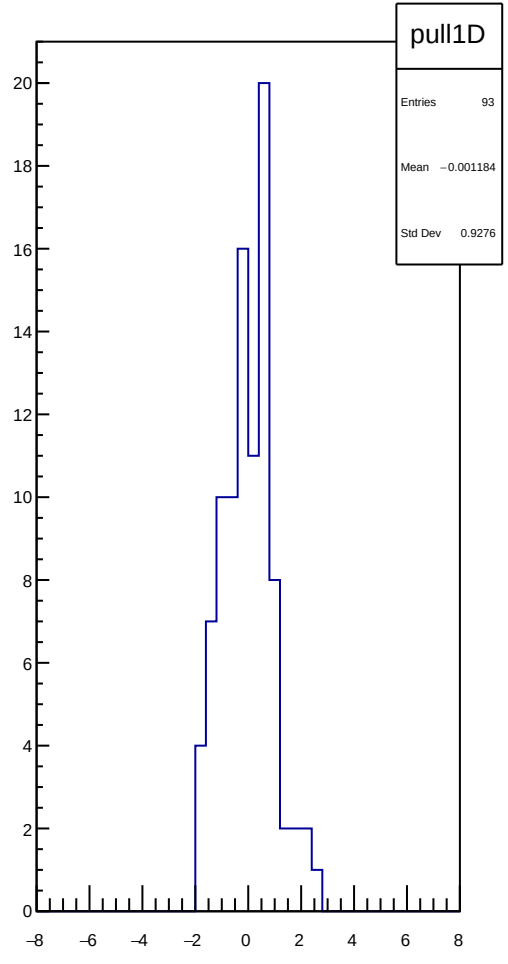

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 664.4 / 92
p0 1998 ± 1.476
2100
2050
2000
1950
1900

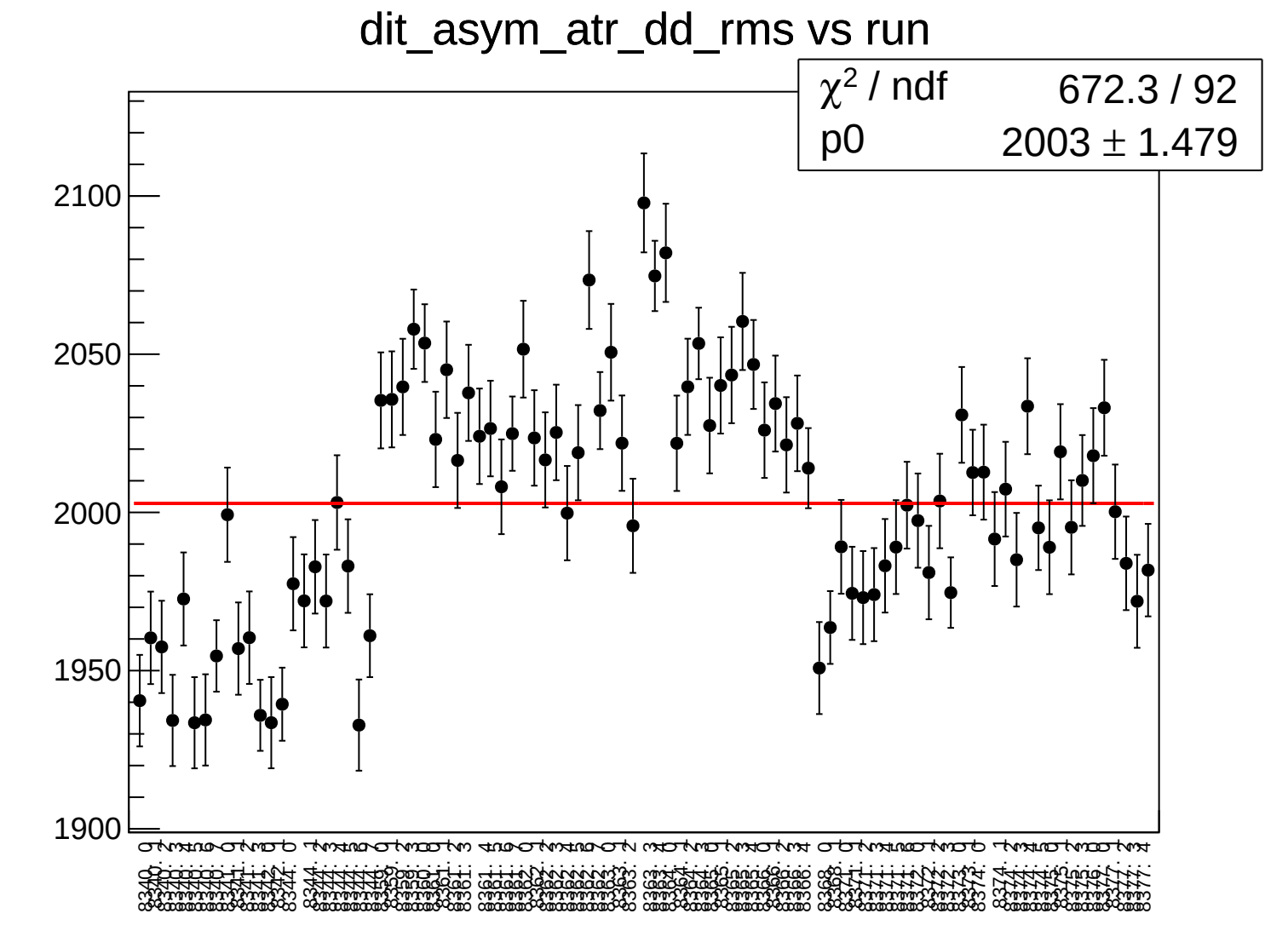

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104.2 / 92
p0 5946 ± 6405
200
100
0
−100
−200
−300
pull
Entries 93
Mean −233.2
Std Dev 0
2
1
0
−1
−2
−3

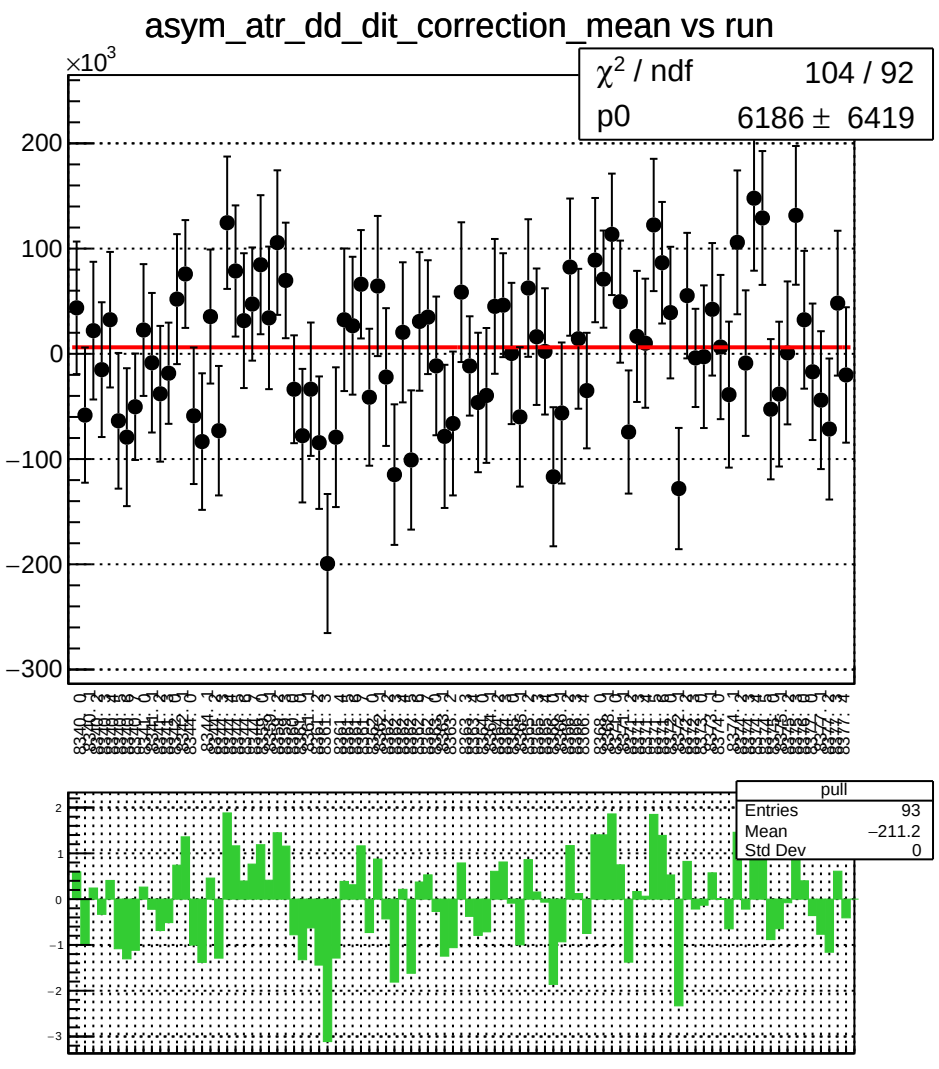

pull1D
Entries 93
Mean −0.01398
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

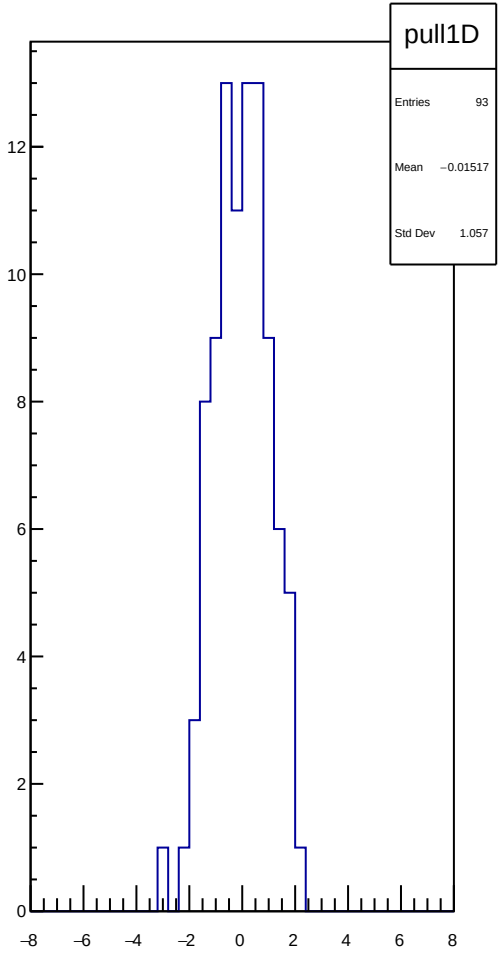

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3390 / 92
p0 6128 ± 4.529
6800
6600
6400
6200
6000
5800
5600
5400

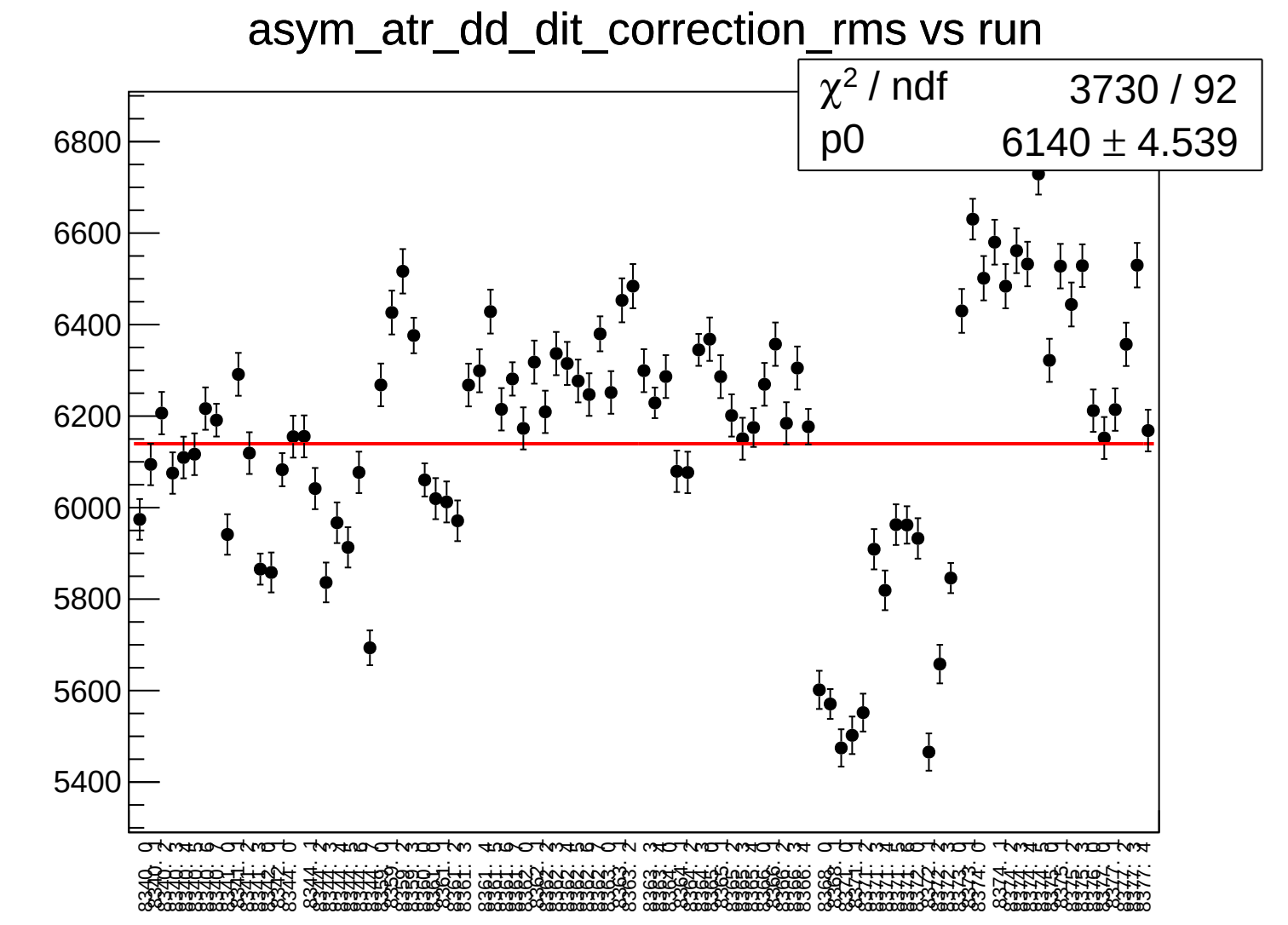

dit_asym_atr_dd_mean vs run
χ² / ndf 80.02 / 92
p0 −1404 ± 2092
pull
Entries 93
Mean 3637
Std Dev 0

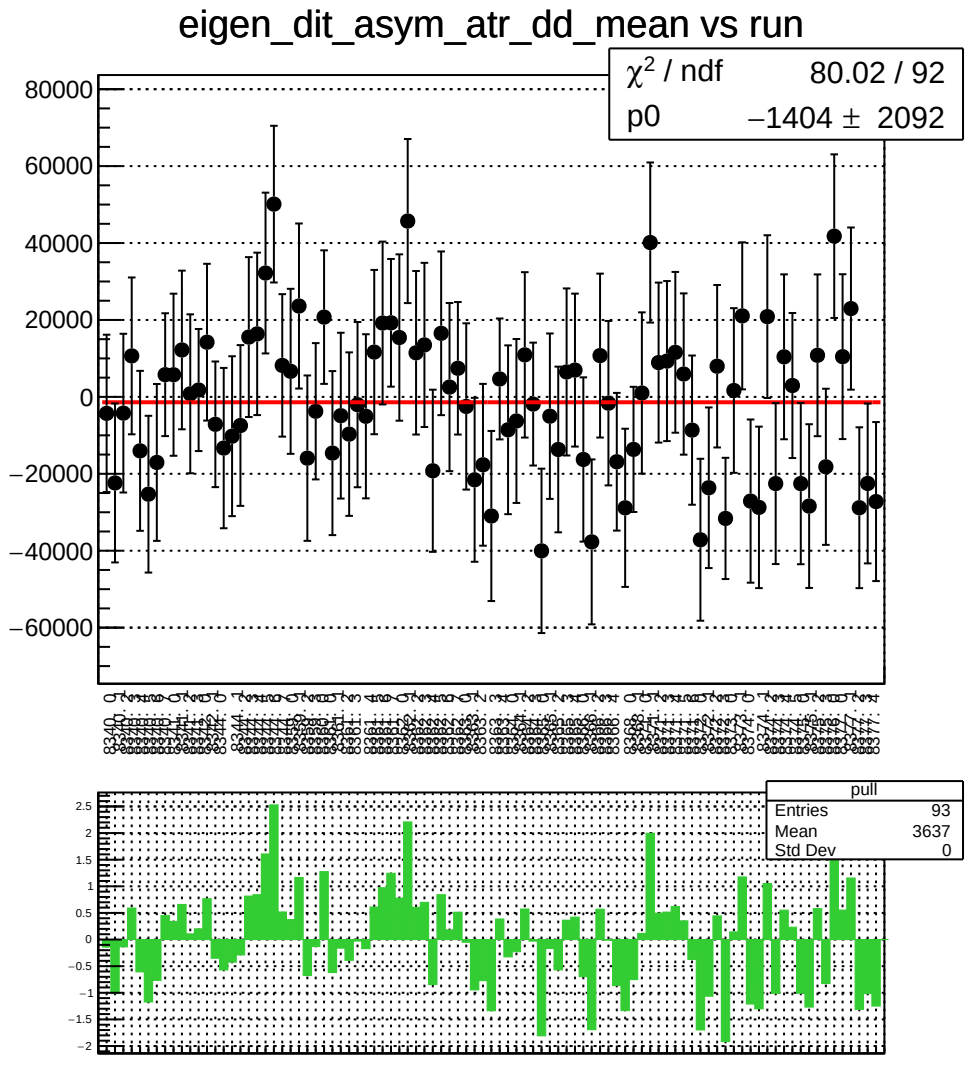

pull1D
Entries 93
Mean −0.001184
Std Dev 0.9276

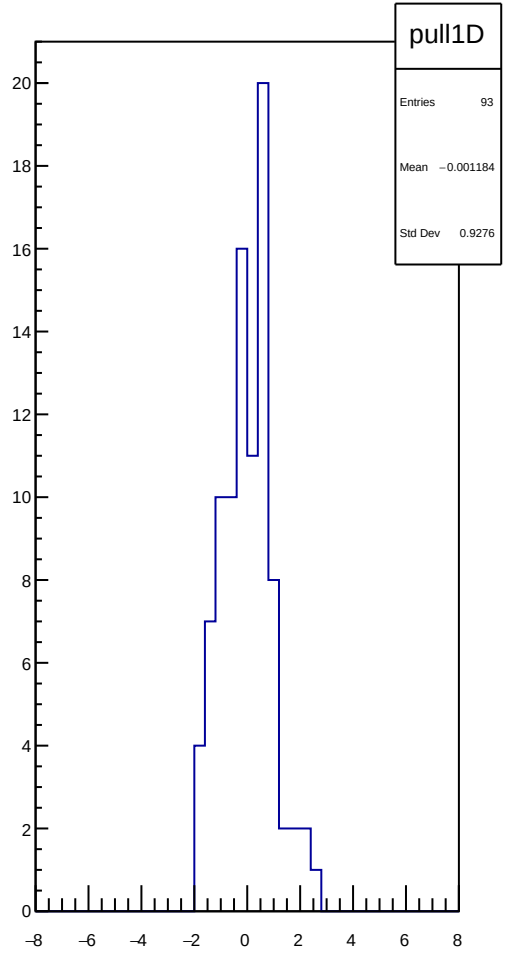

dit_asym_atr_dd_rms vs run
χ² / ndf 672.3 / 92
p0 2003 ± 1.479
2100
2050
2000
1950
1900

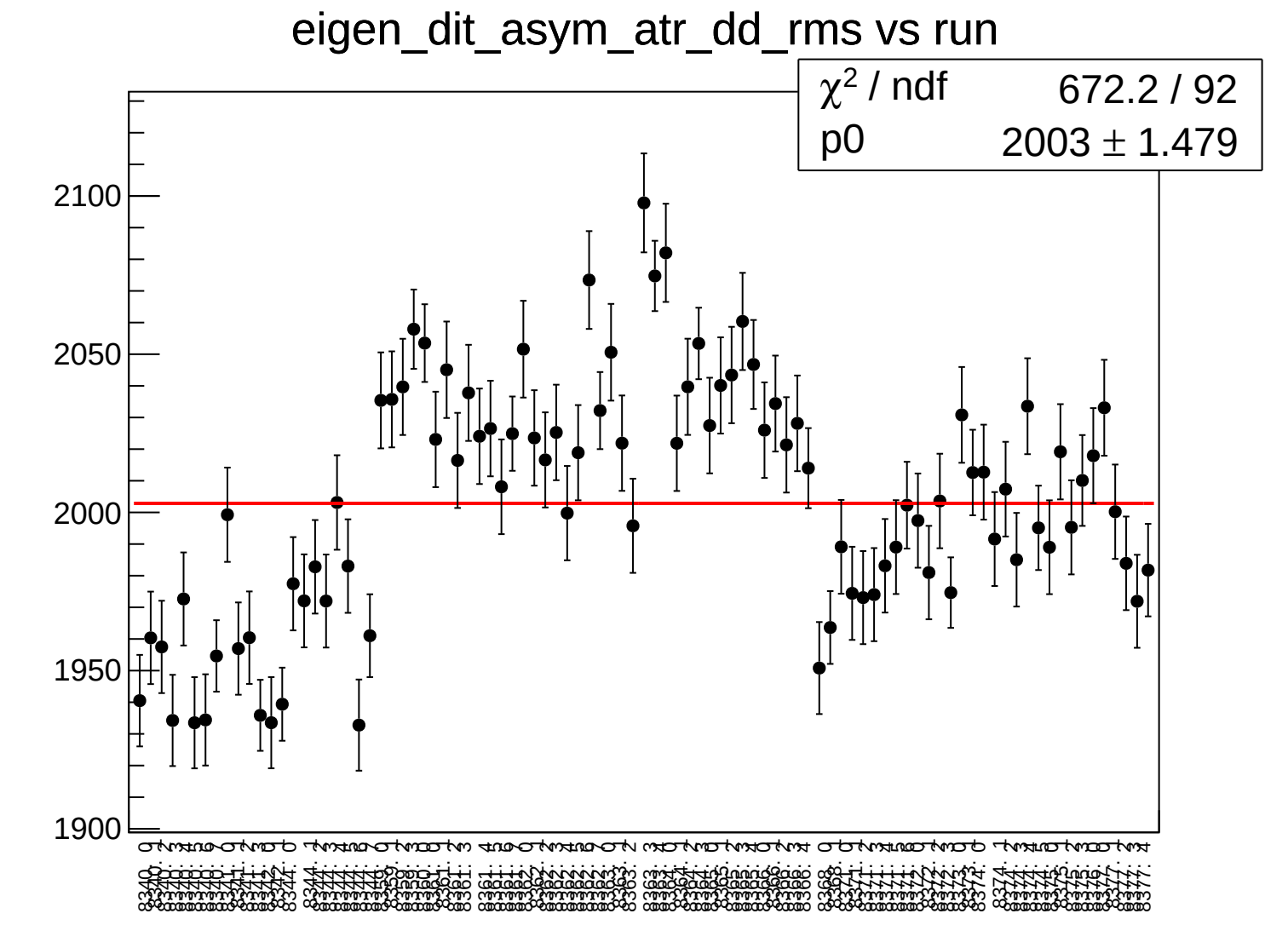

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 92
p0 6186 ± 6419
200
100
0
−100
−200
−300
pull
Entries 93
Mean −211.2
Std Dev 0
2
1
0
−1
−2
−3

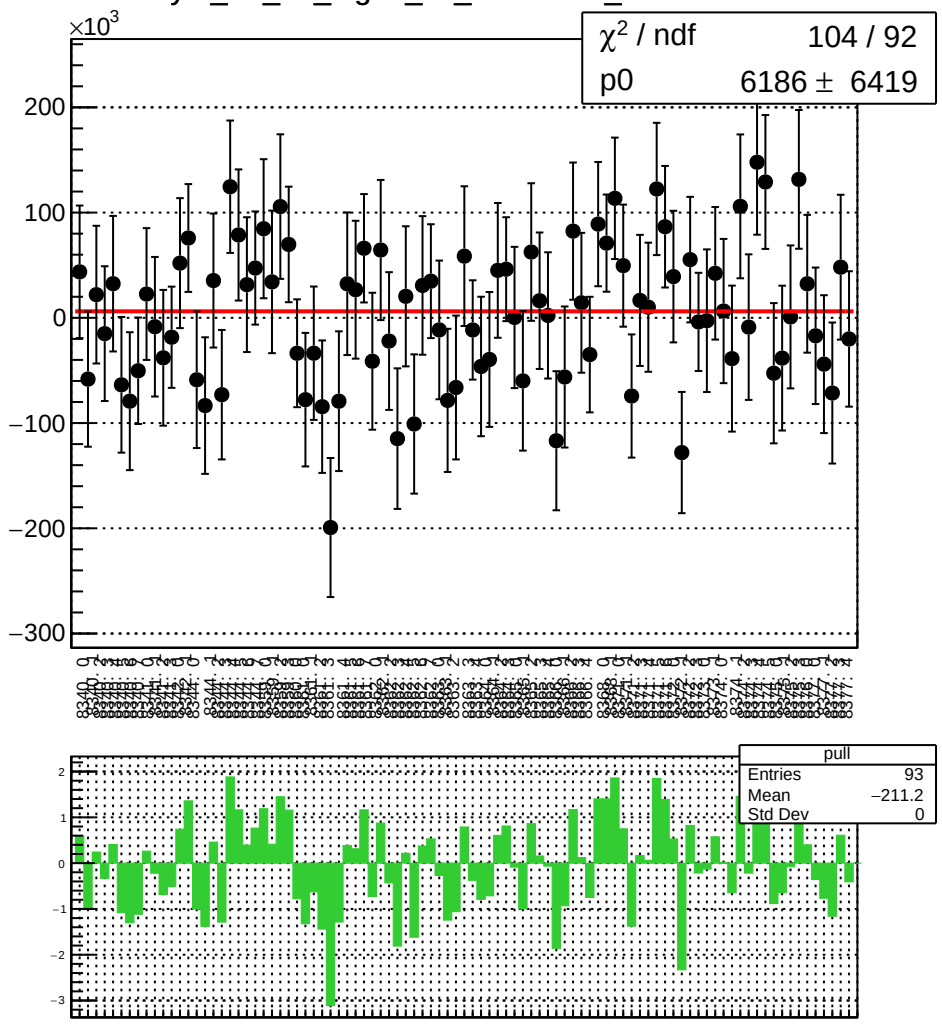

pull1D
Entries 93
Mean −0.01517
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

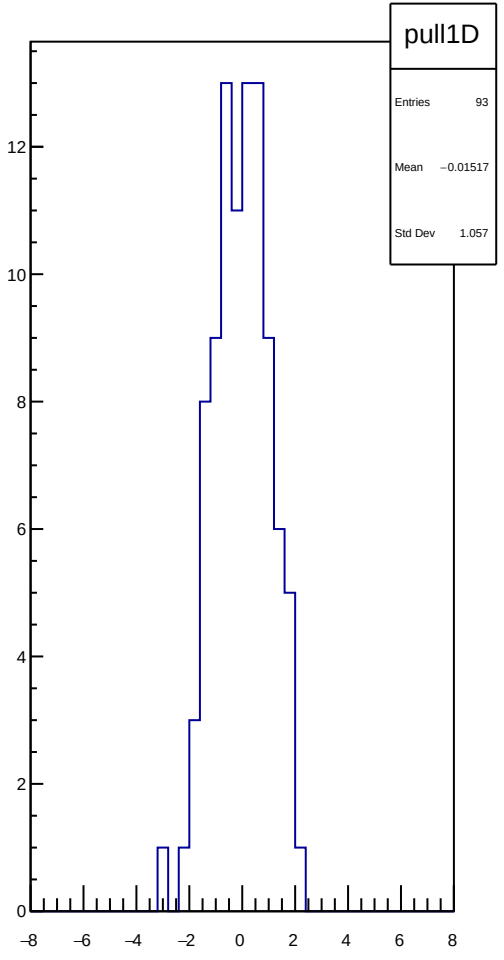

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3730 / 92
p0 6140 ± 4.539
6800
6600
6400
6200
6000
5800
5600
5400

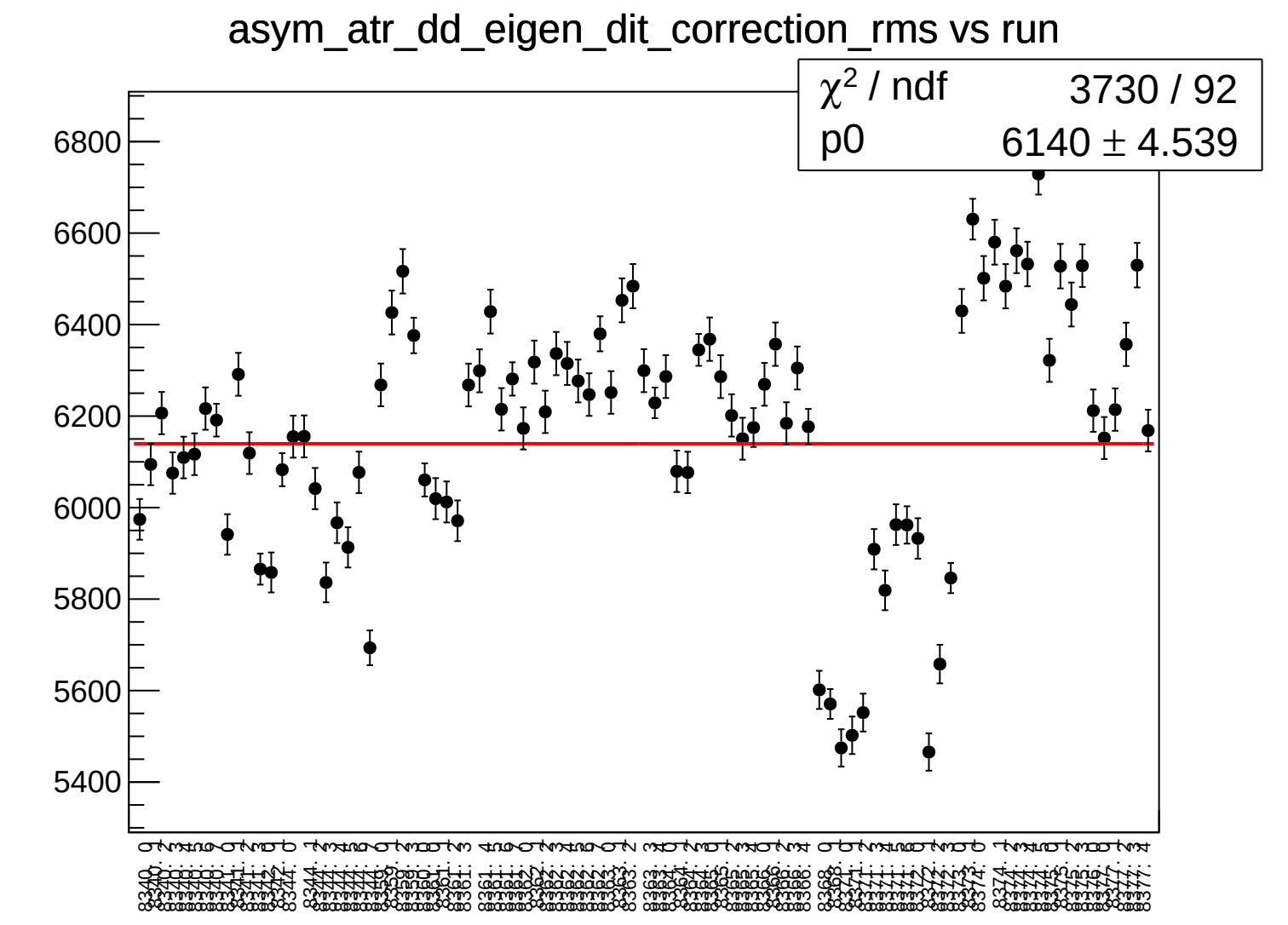

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 80.02 / 92
p0 −1404 ± 2092
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 3637
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

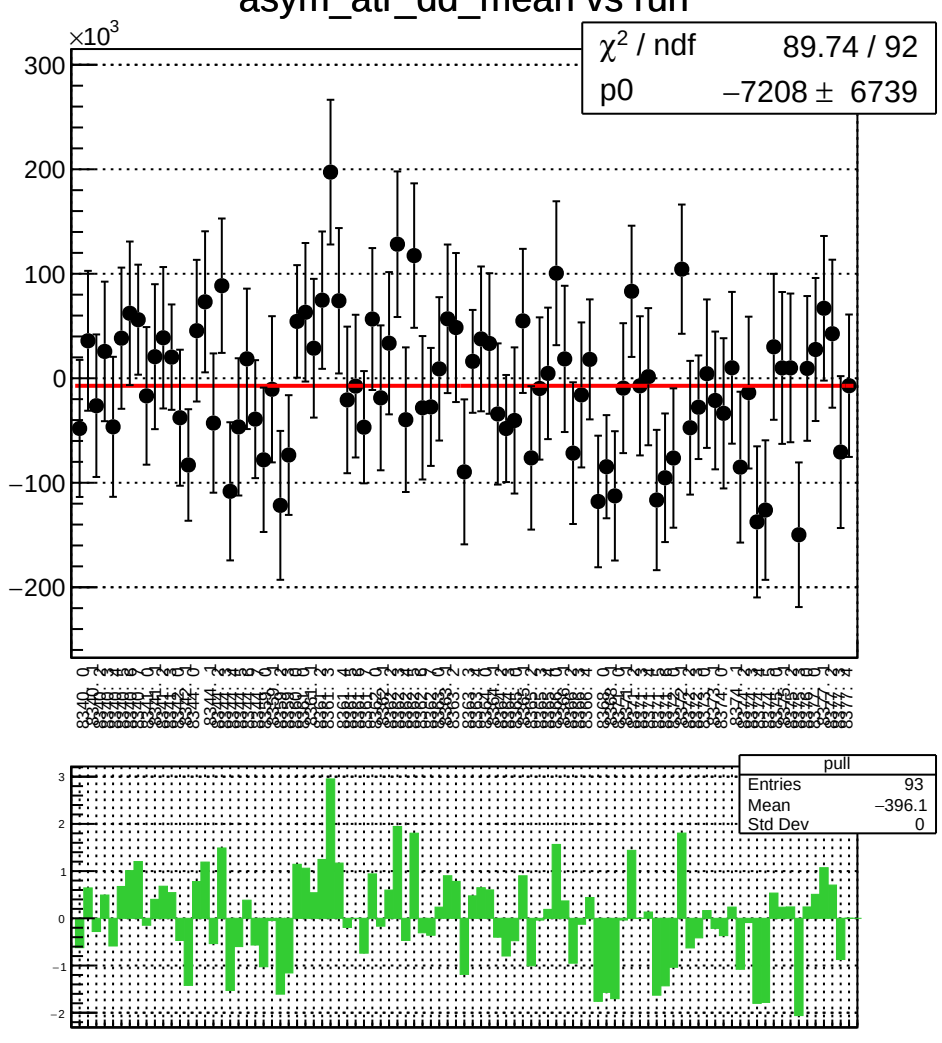

pull1D
Entries 93
Mean −0.001184
Std Dev 0.9276
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

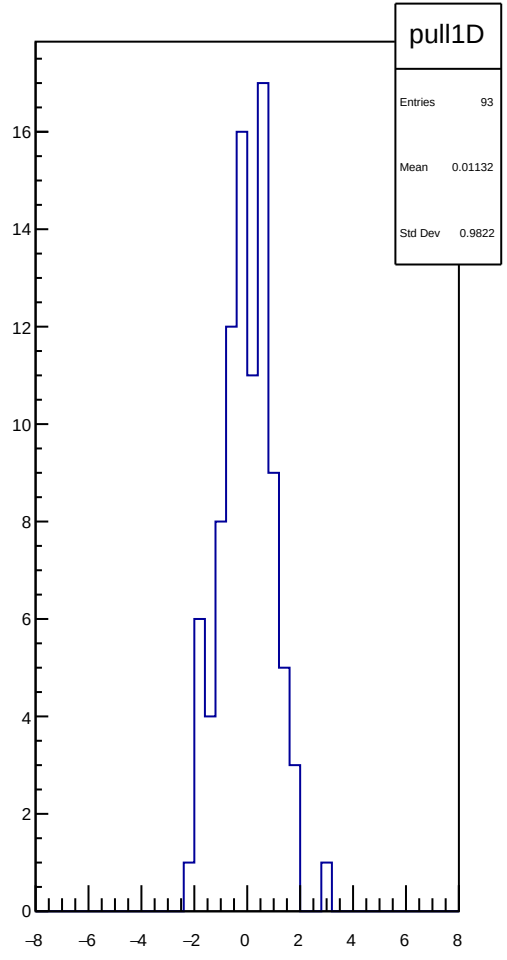

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 672.2 / 92
p0 2003 ± 1.479
2100
2050
2000
1950
1900

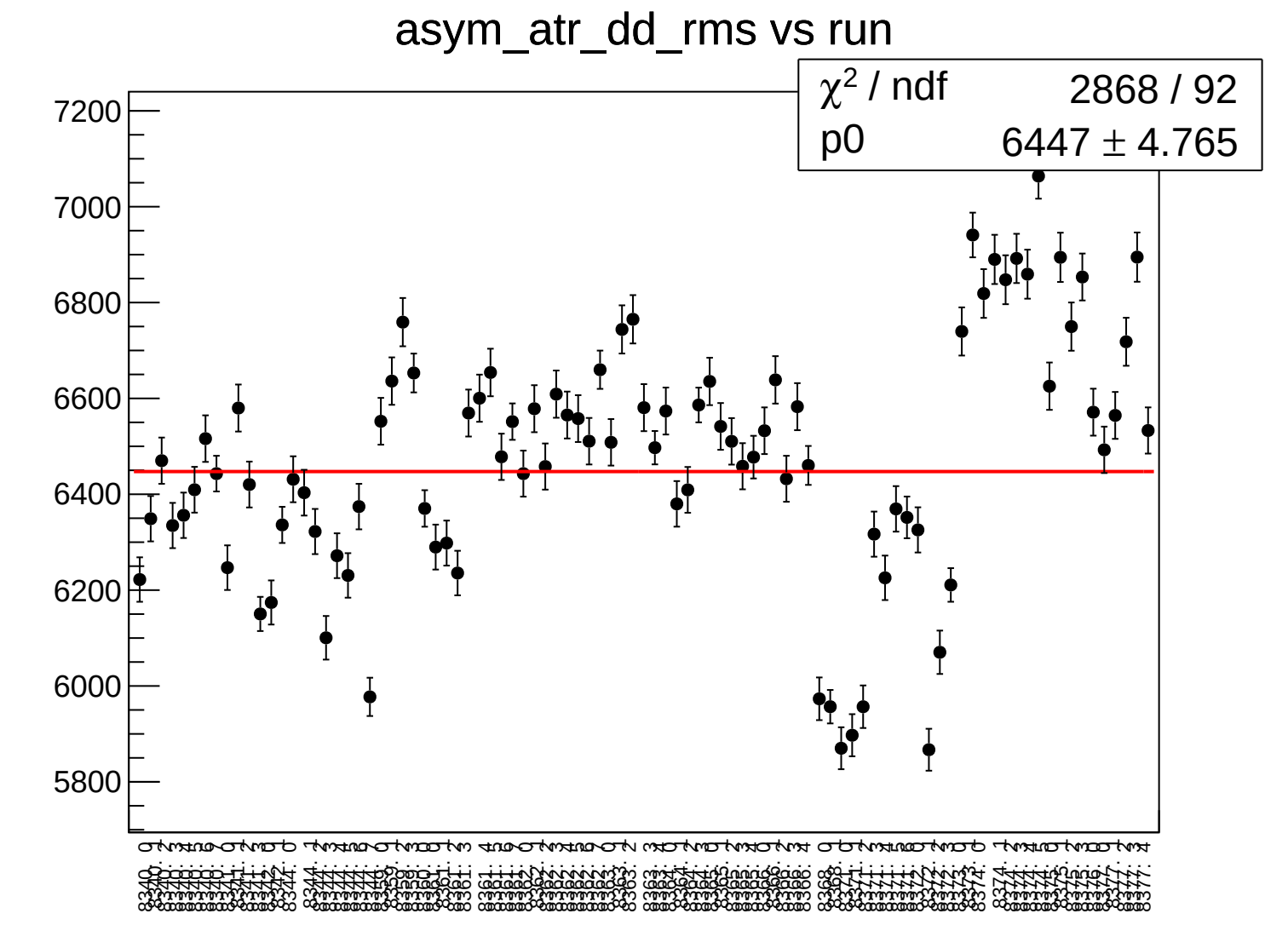

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 104 / 92
p0 6186 ± 6419
200
100
0
−100
−200
−300
pull
Entries 93
Mean −211.2
Std Dev 0
2
1
0
−1
−2
−3

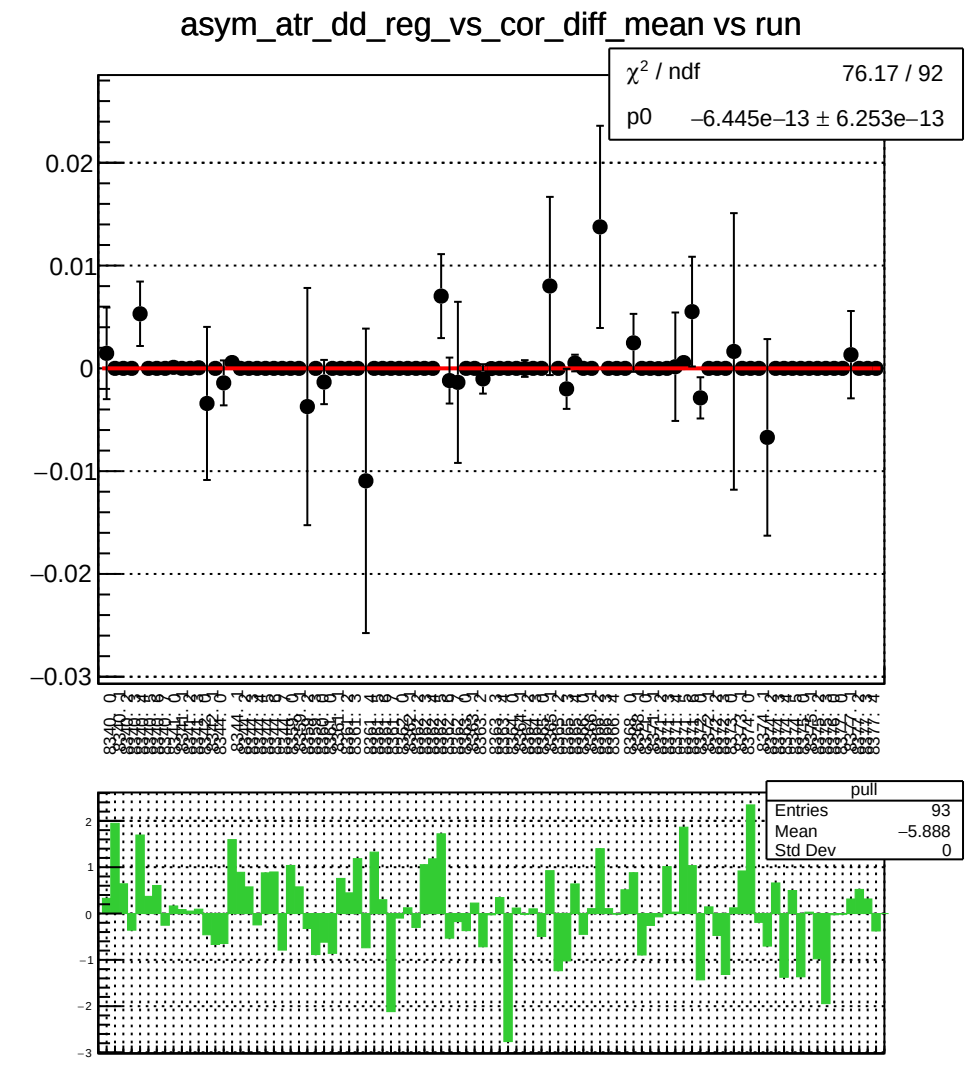

pull1D
Entries 93
Mean −0.01517
Std Dev 1.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

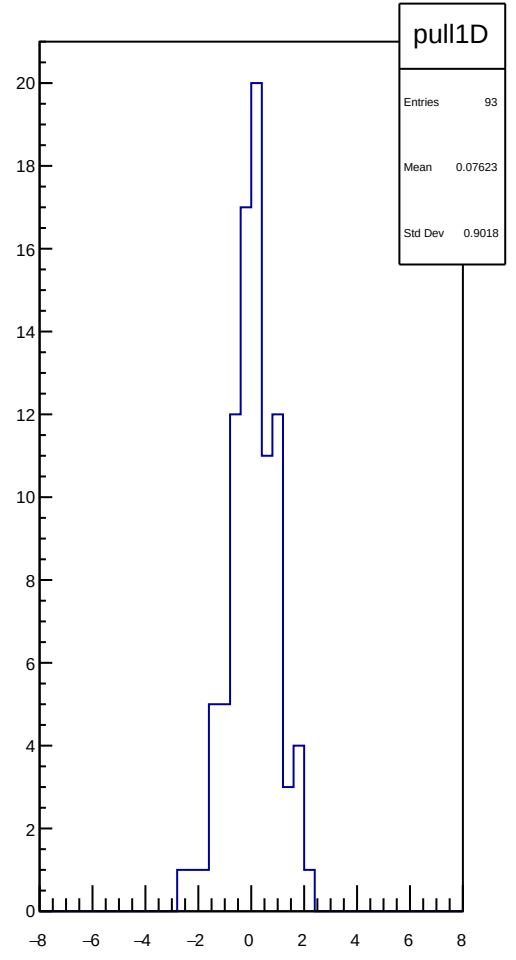

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3730 / 92
p0 6140 ± 4.539
6800
6600
6400
6200
6000
5800
5600
5400

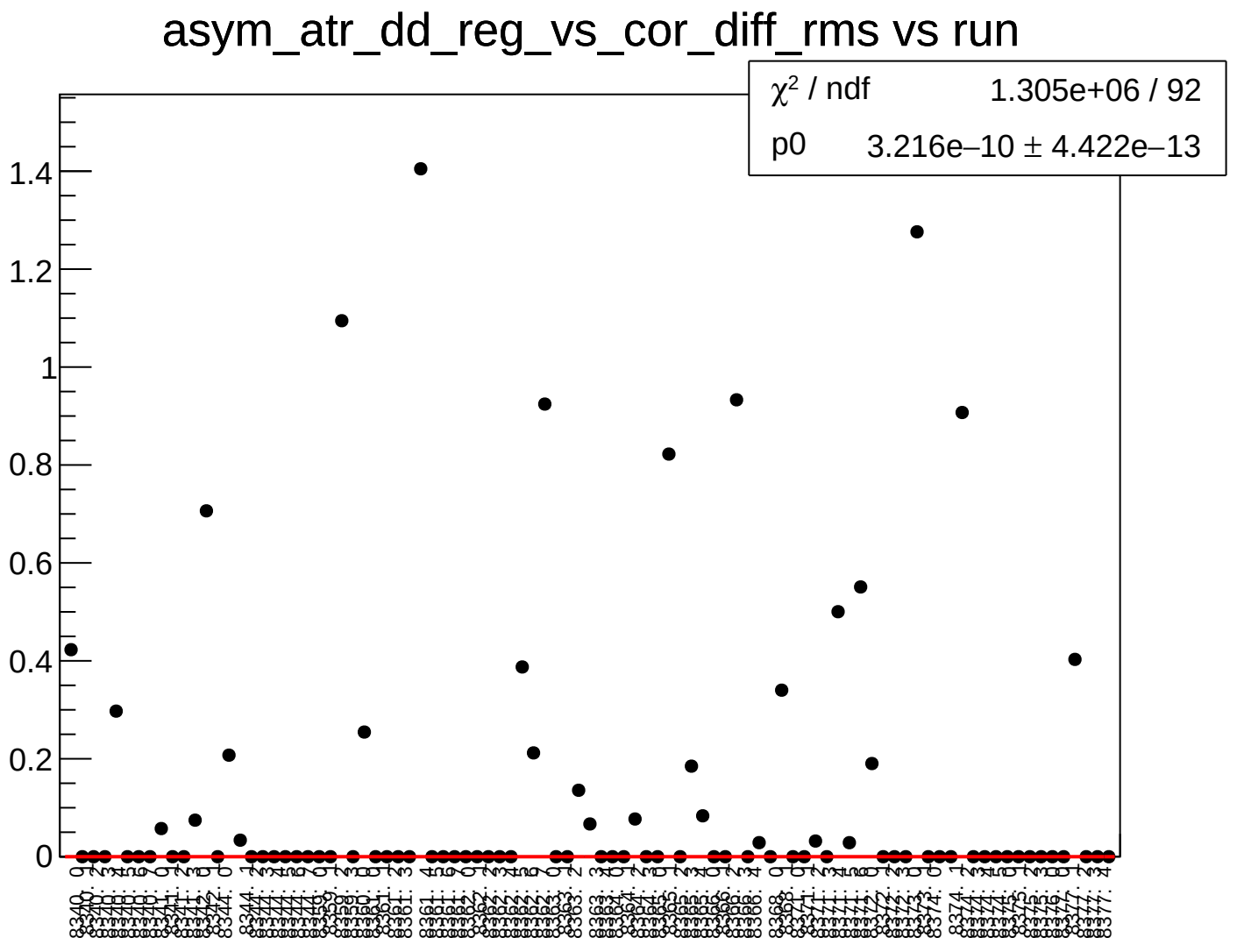

asym_atr_dd_mean vs run
×10^3
χ² / ndf 89.74 / 92
p0 −7208 ± 6739
pull
Entries 93
Mean −396.1
Std Dev 0

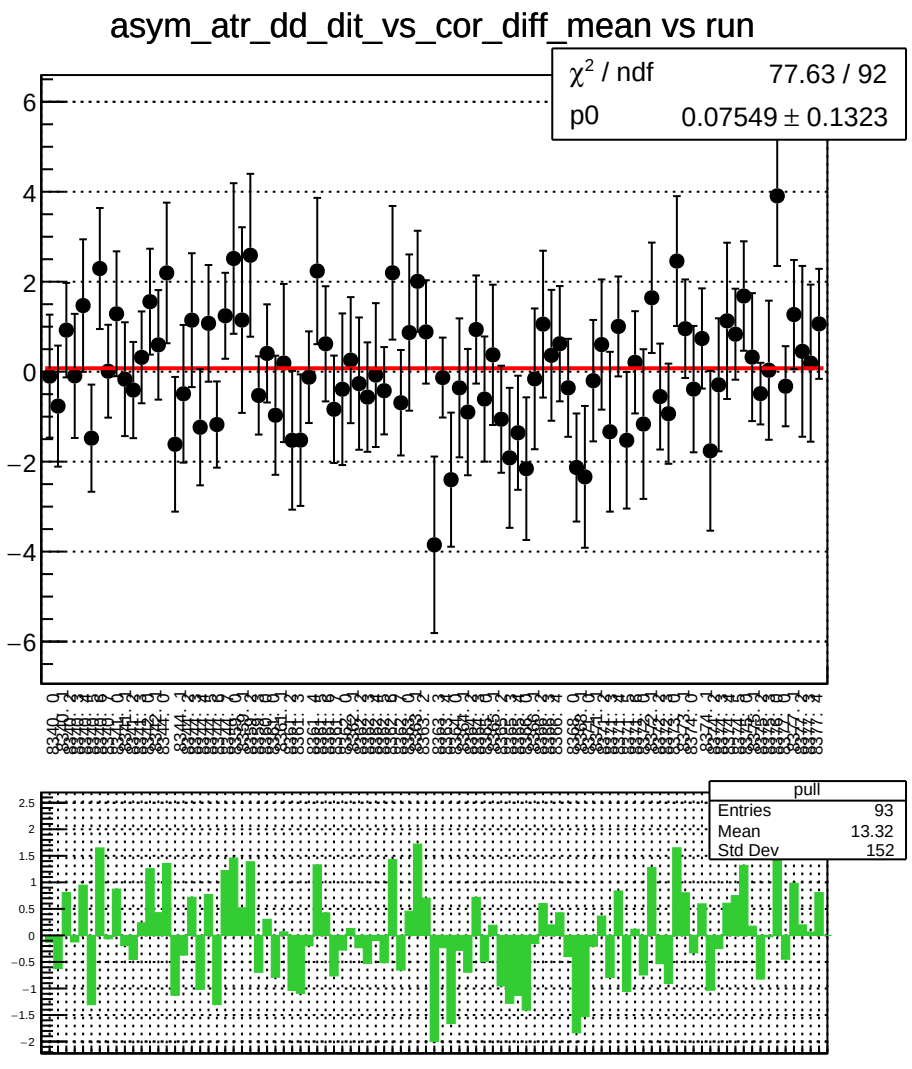

pull1D
Entries 93
Mean 0.01132
Std Dev 0.9822

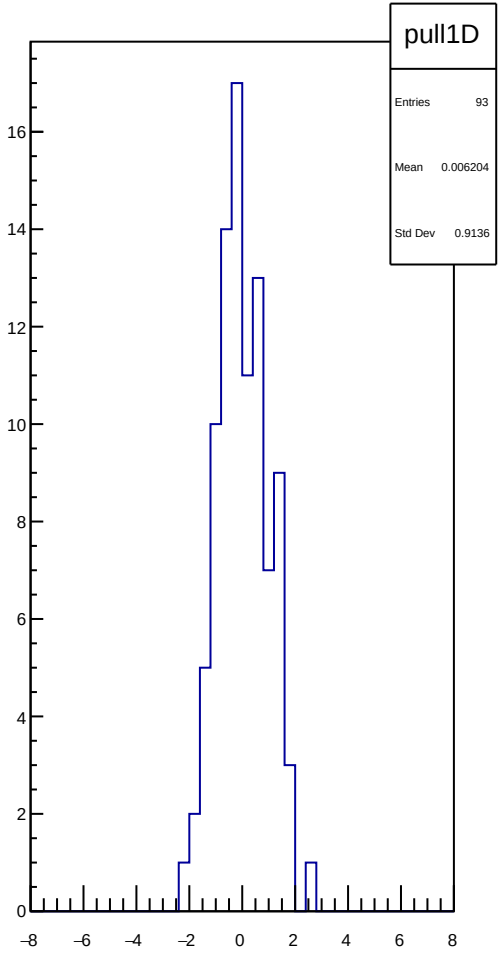

asym_atr_dd_rms vs run
χ² / ndf 2868 / 92
p0 6447 ± 4.765
7200
7000
6800
6600
6400
6200
6000
5800

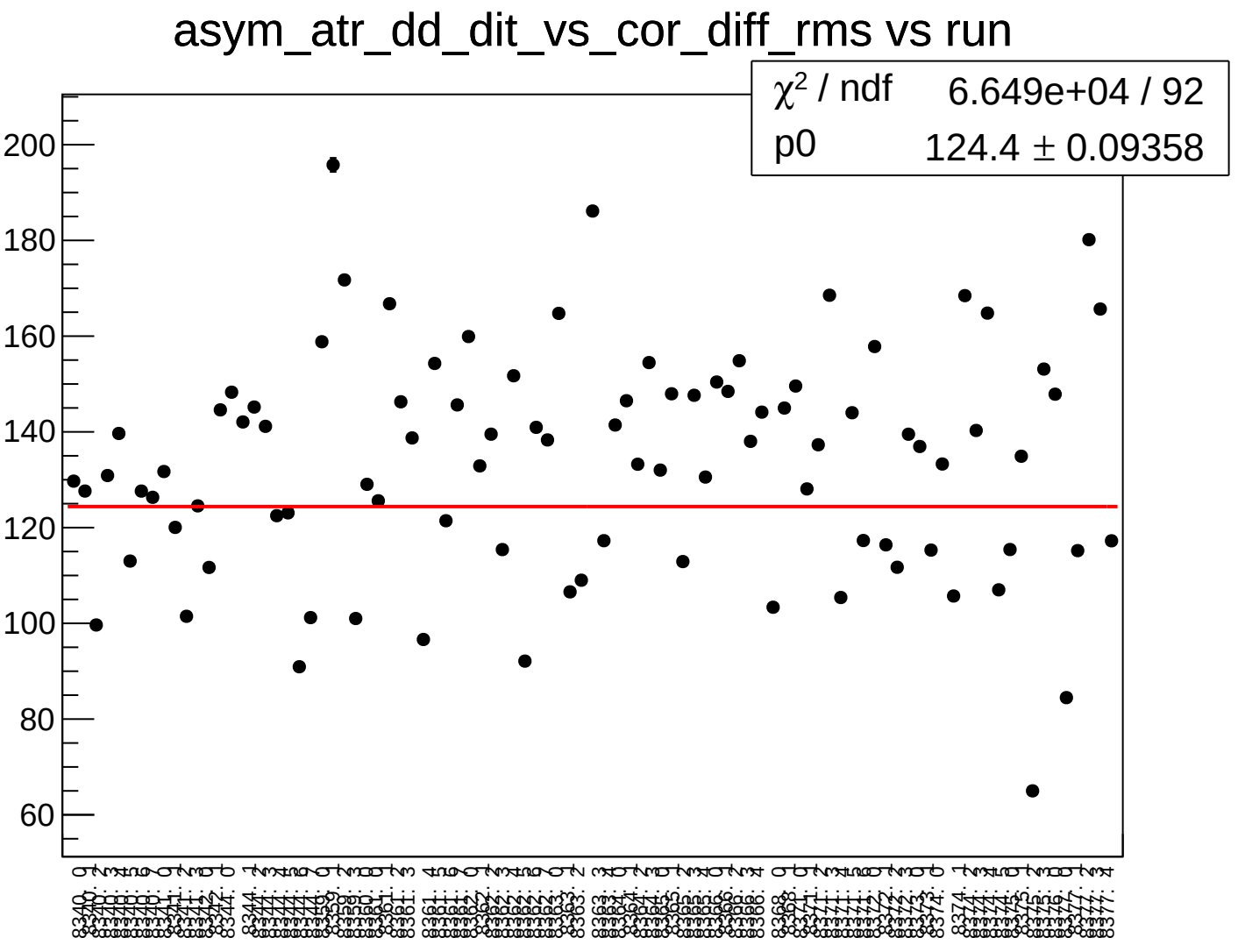

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.17 / 92
p0 −6.445e−13 ± 6.253e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean −5.888
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.07623
Std Dev 0.9018
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

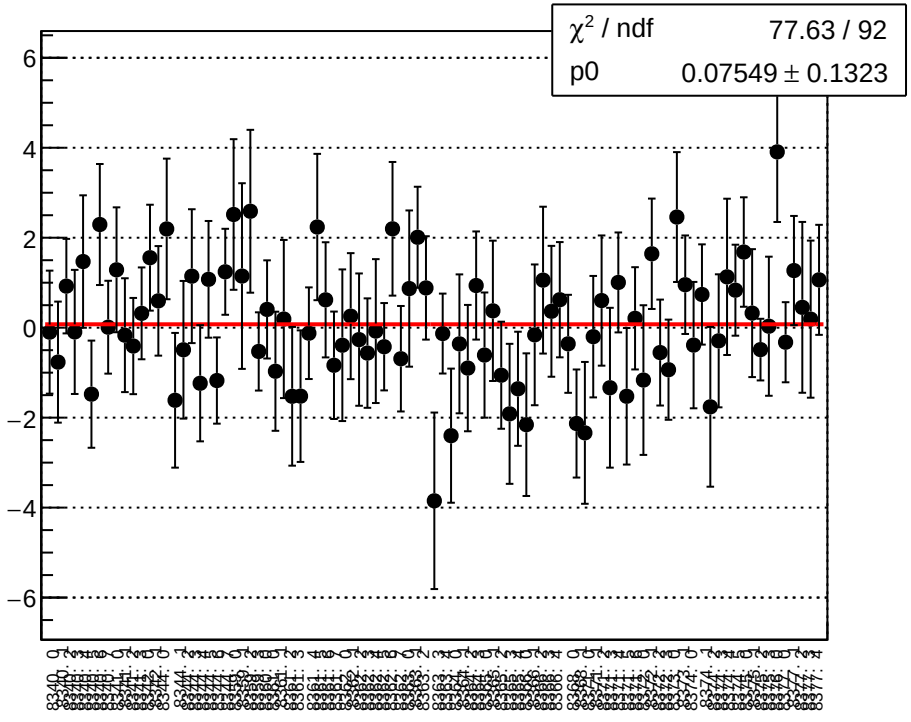

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 92
p0 3.216e−10 ± 4.422e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

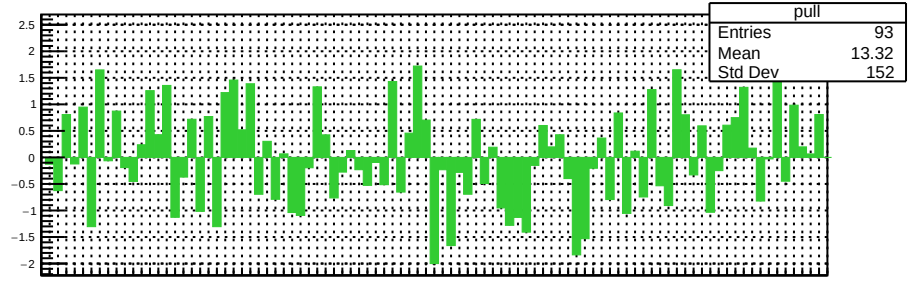

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.63 / 92
p0 0.07549 ± 0.1323
pull
Entries 93
Mean 13.32
Std Dev 152

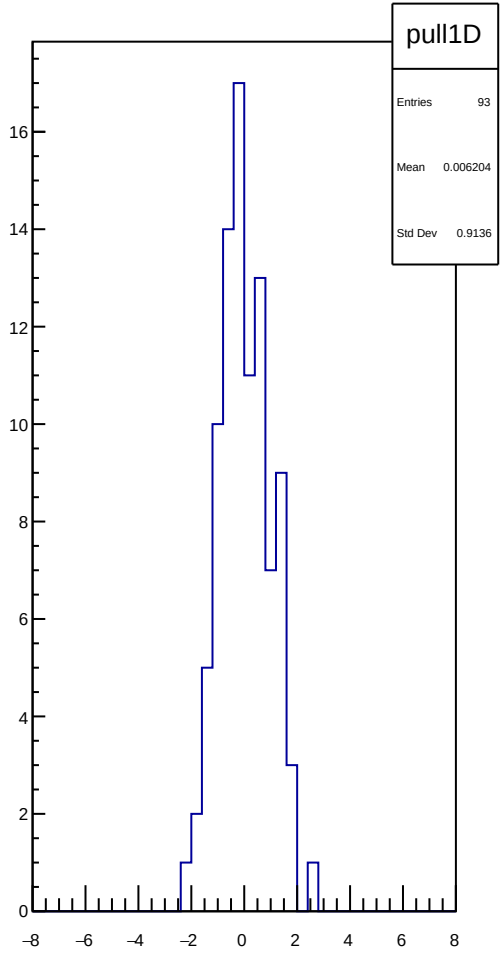

pull1D
Entries 93
Mean 0.006204
Std Dev 0.9136

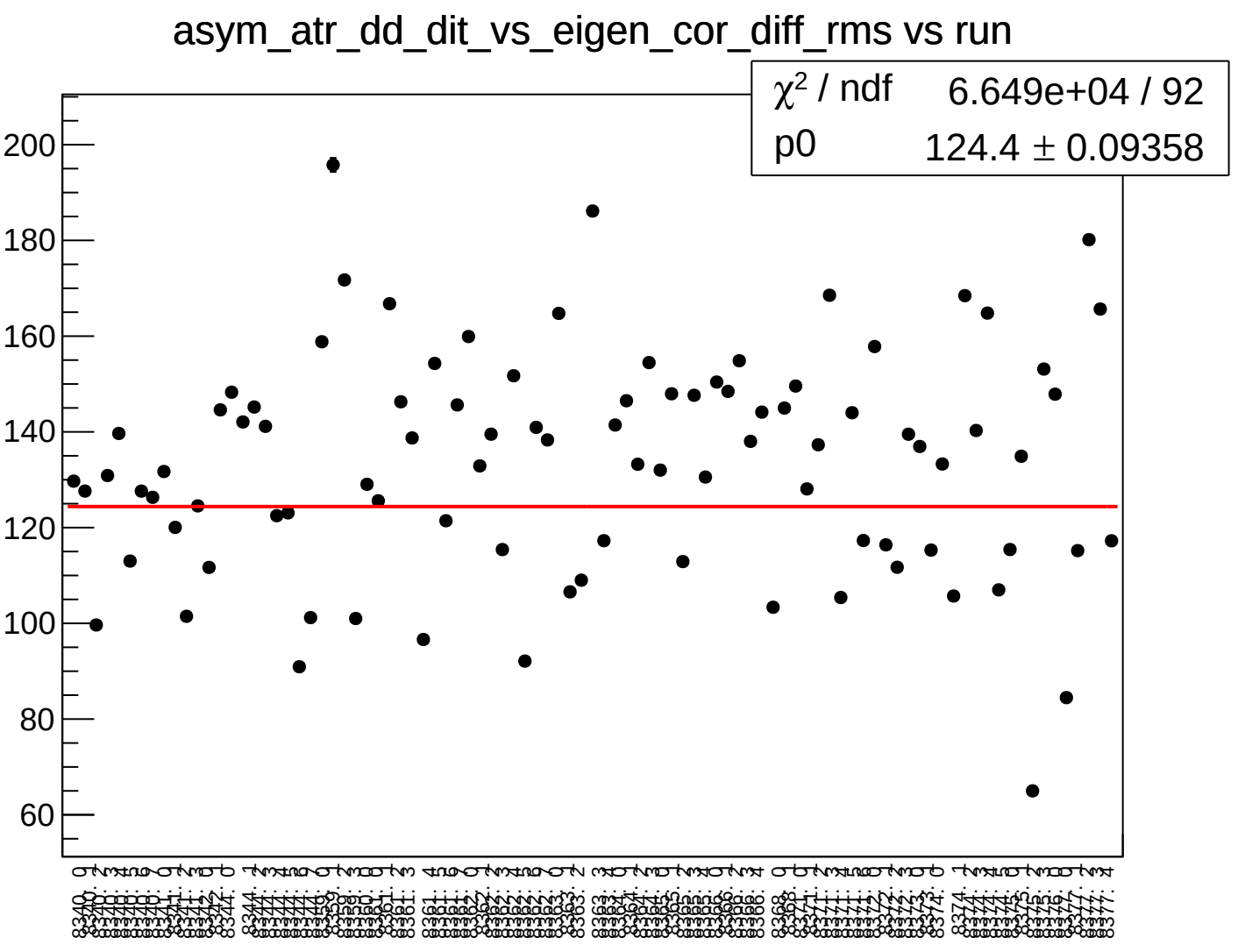

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.649e+04 / 92
p0 124.4 ± 0.09358
200
180
160
140
120
100
80
60

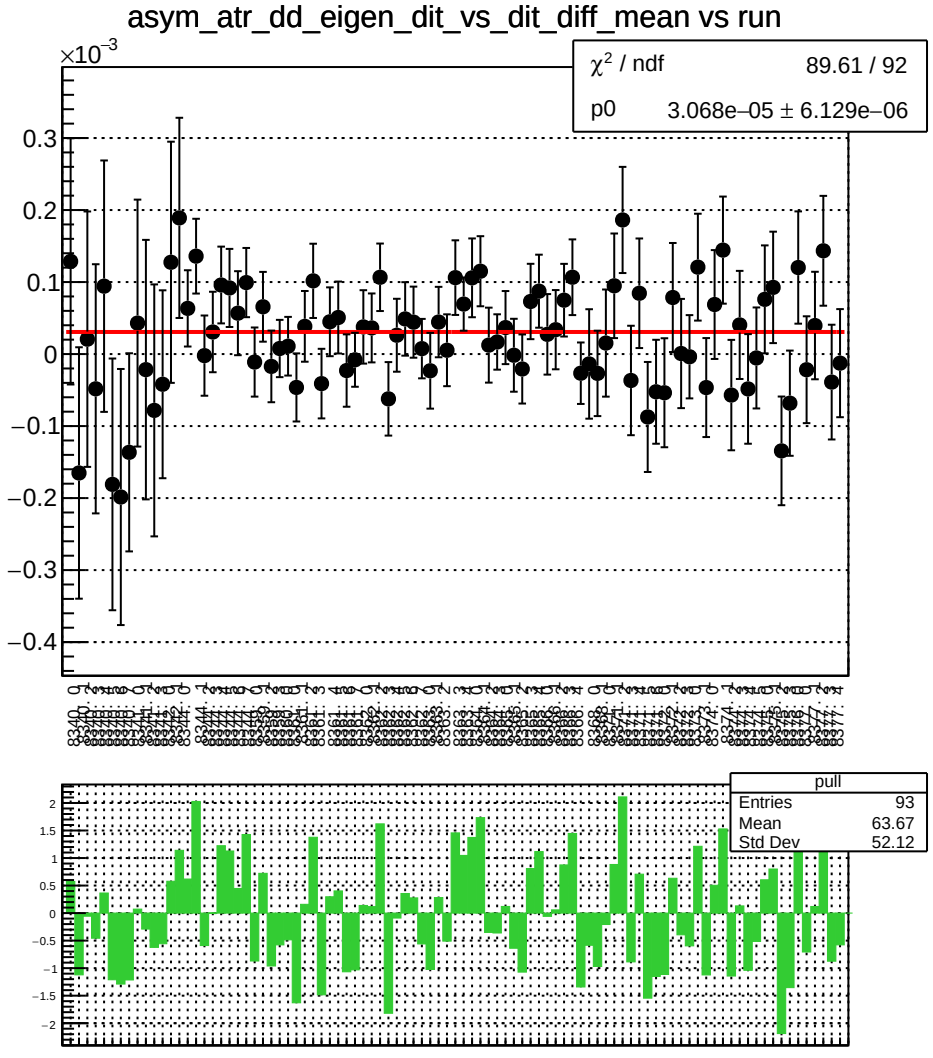
asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run

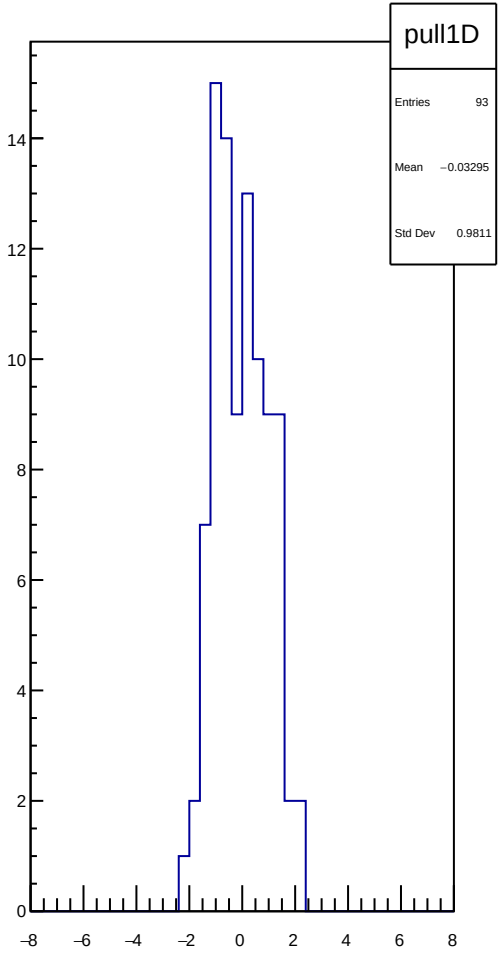


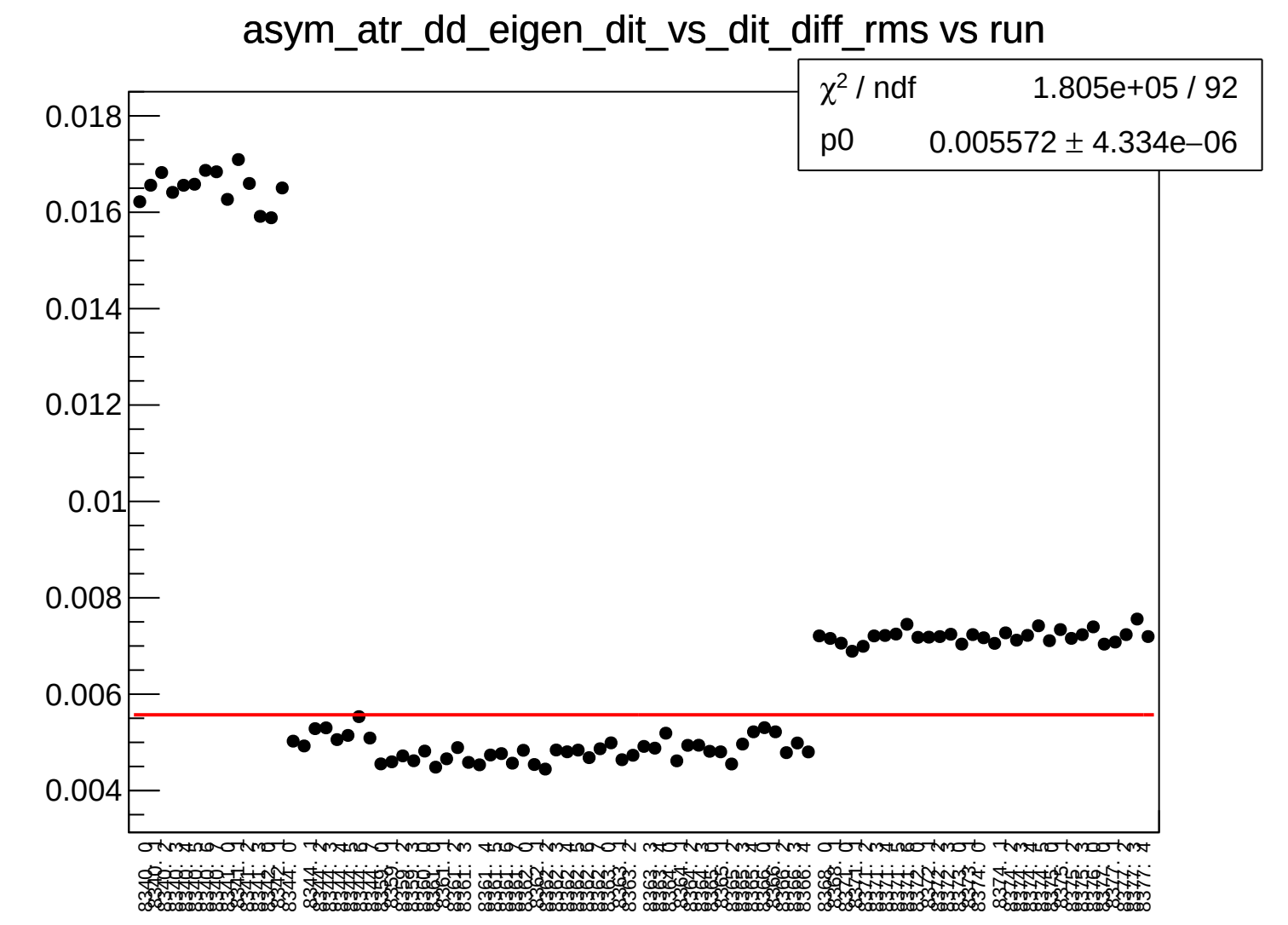


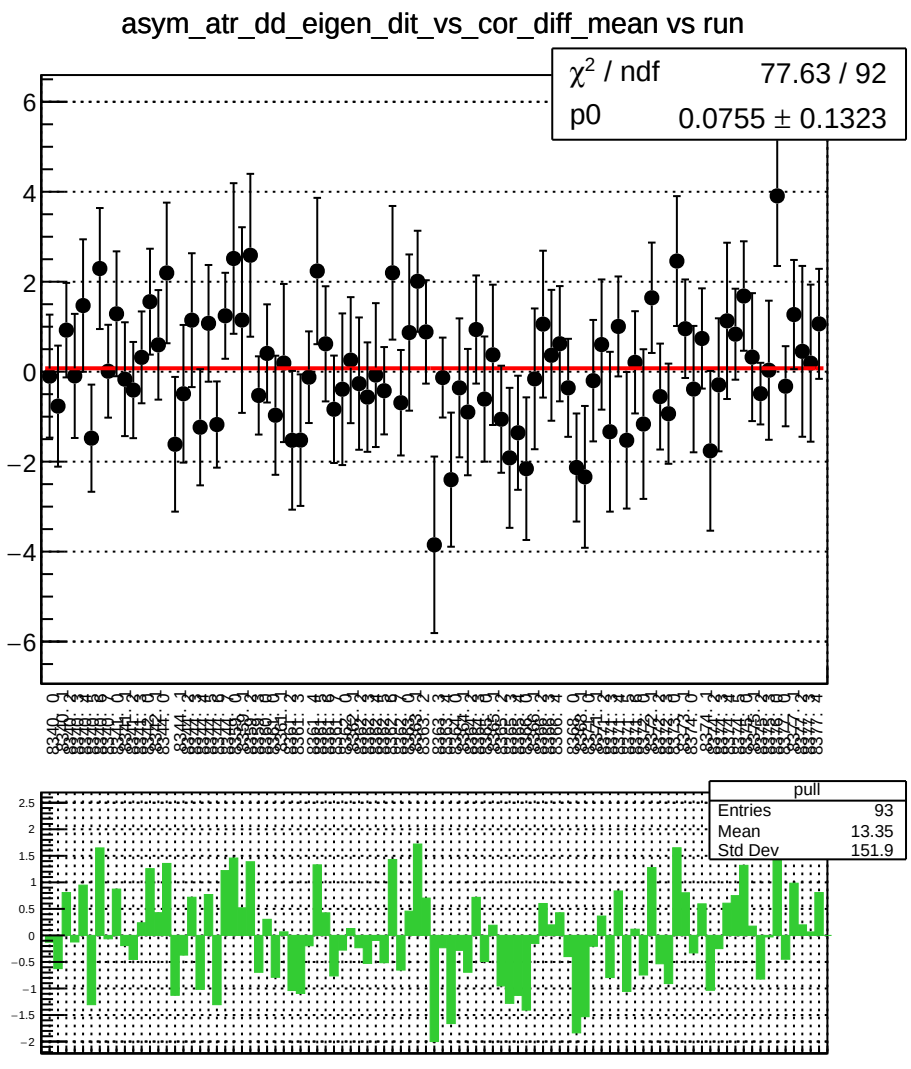


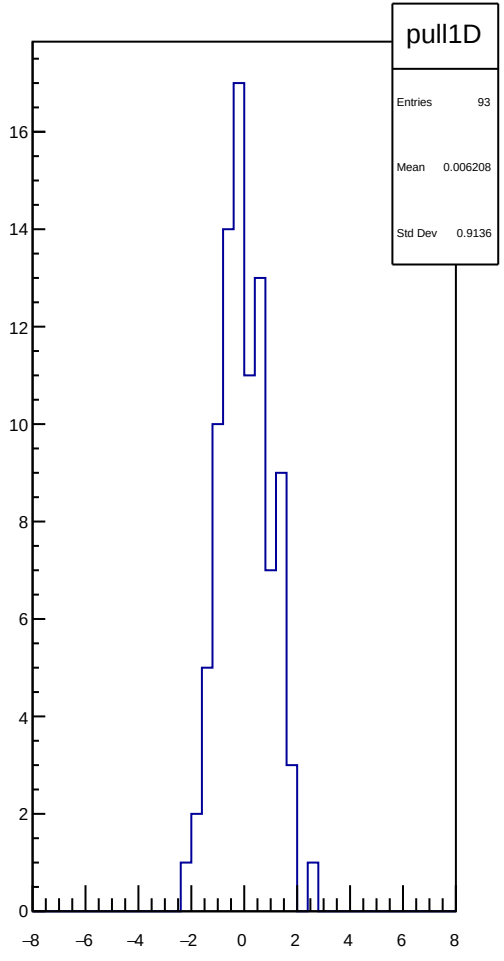

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.649e+04 / 92
p0 124.4 ± 0.09358
200
180
160
140
120
100
80
60

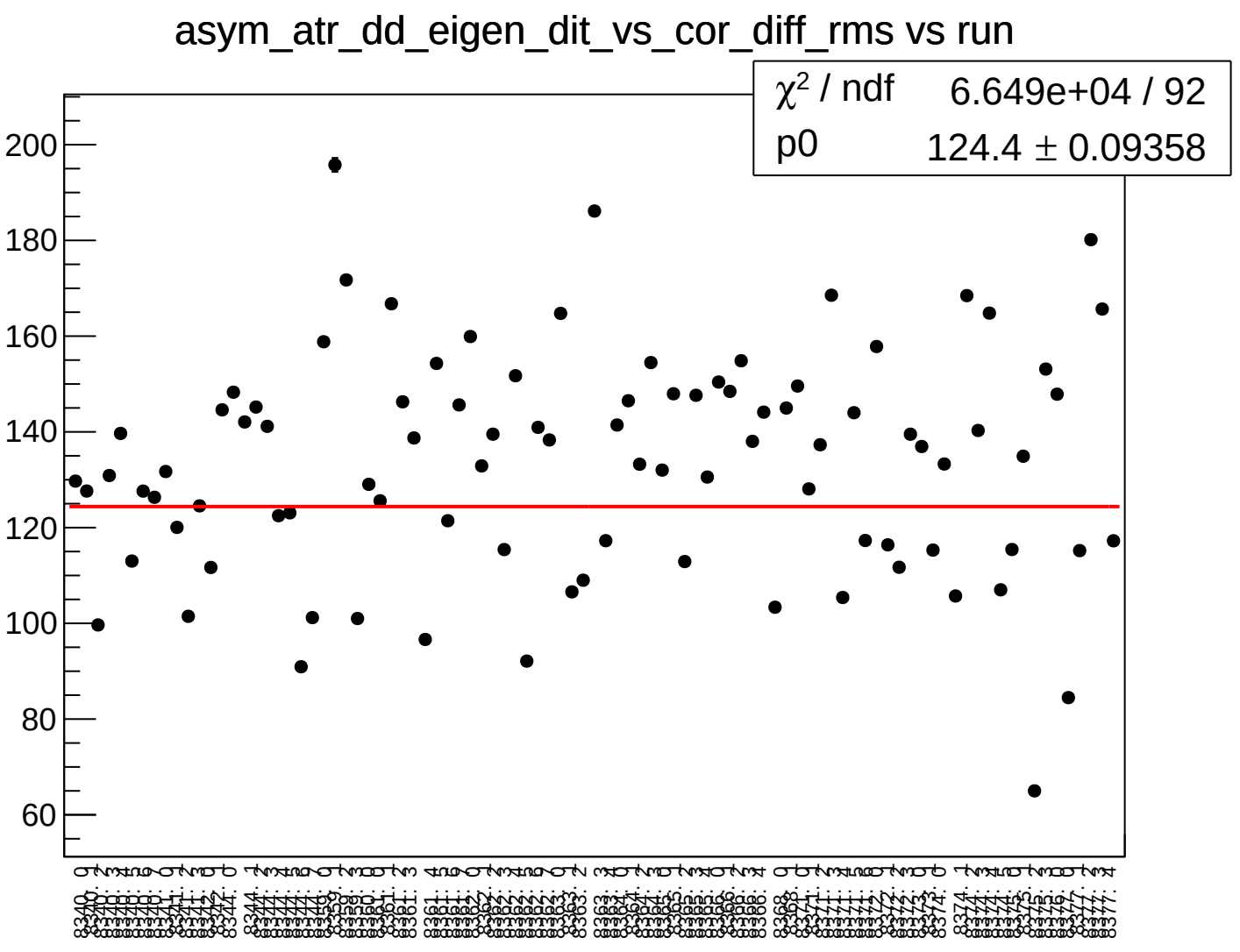

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.61 / 92
p0 3.068e−05 ± 6.129e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 93
Mean 63.67
Std Dev 52.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

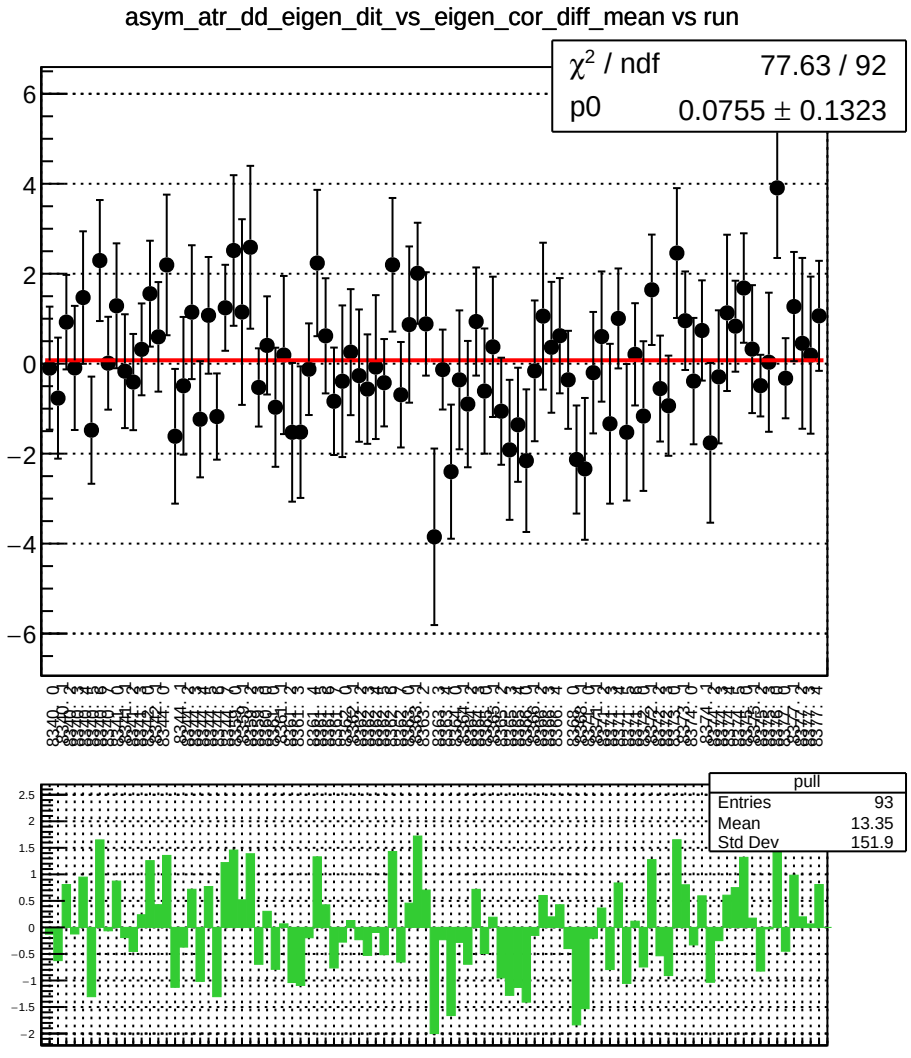

pull1D
Entries 93
Mean −0.03295
Std Dev 0.9811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

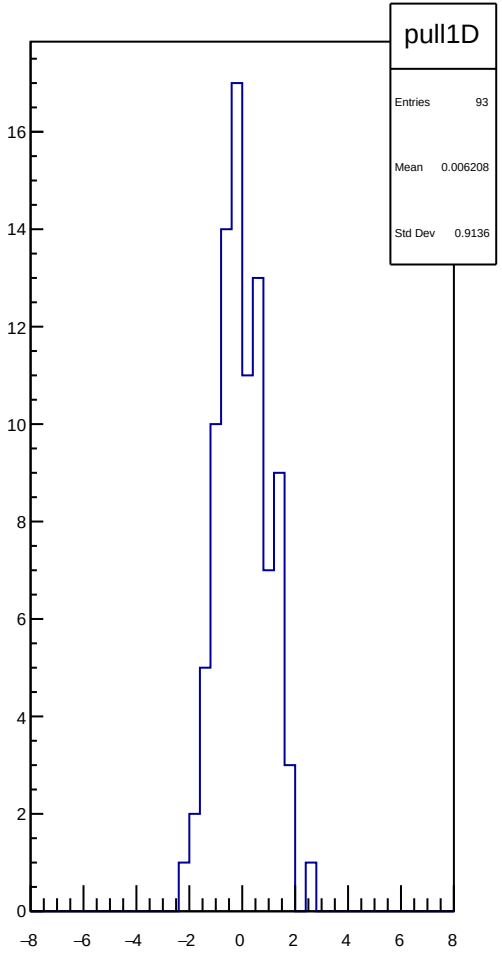

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.805e+05 / 92
p0 0.005572 ± 4.334e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

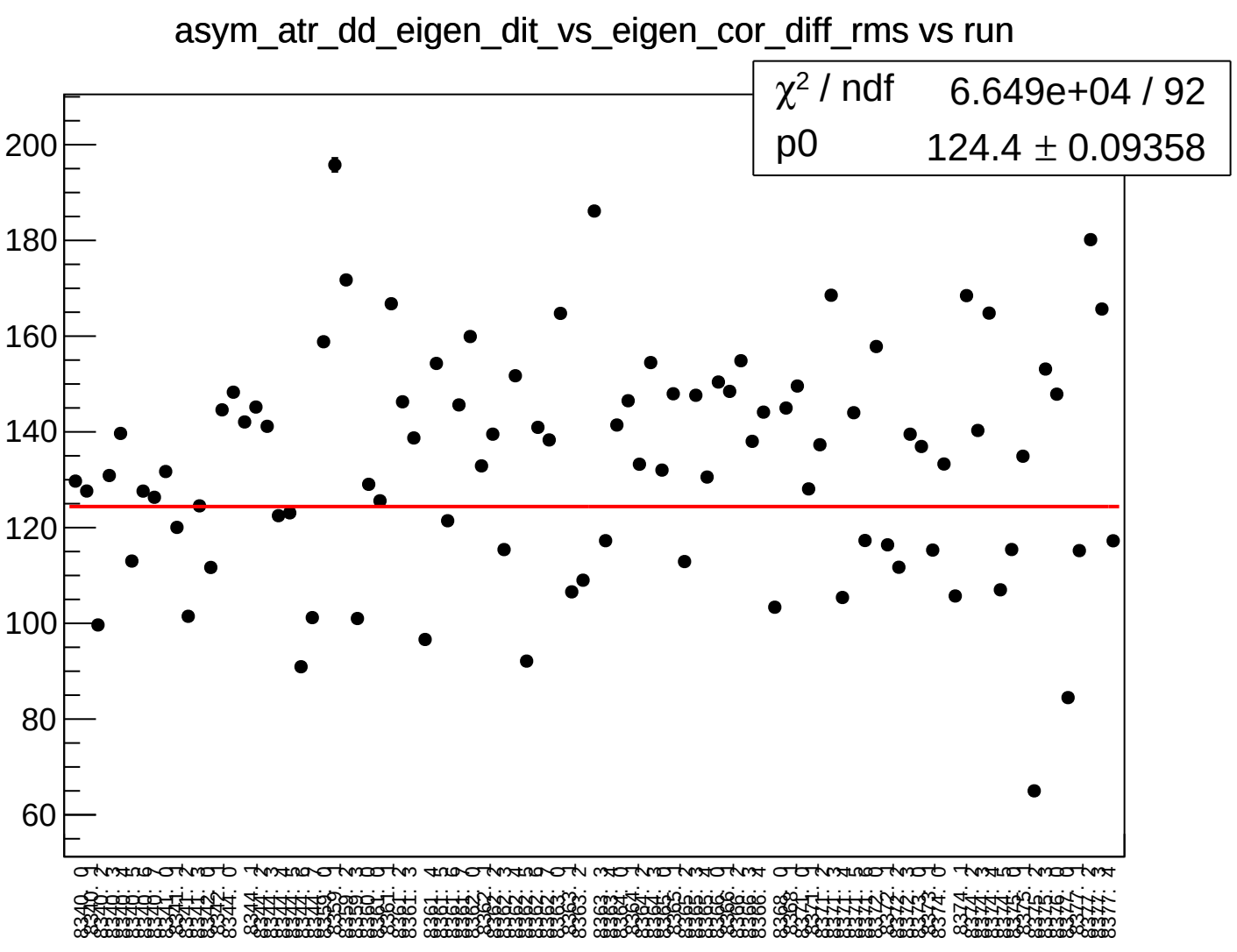

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.63 / 92
p0 0.0755 ± 0.1323
pull
Entries 93
Mean 13.35
Std Dev 151.9

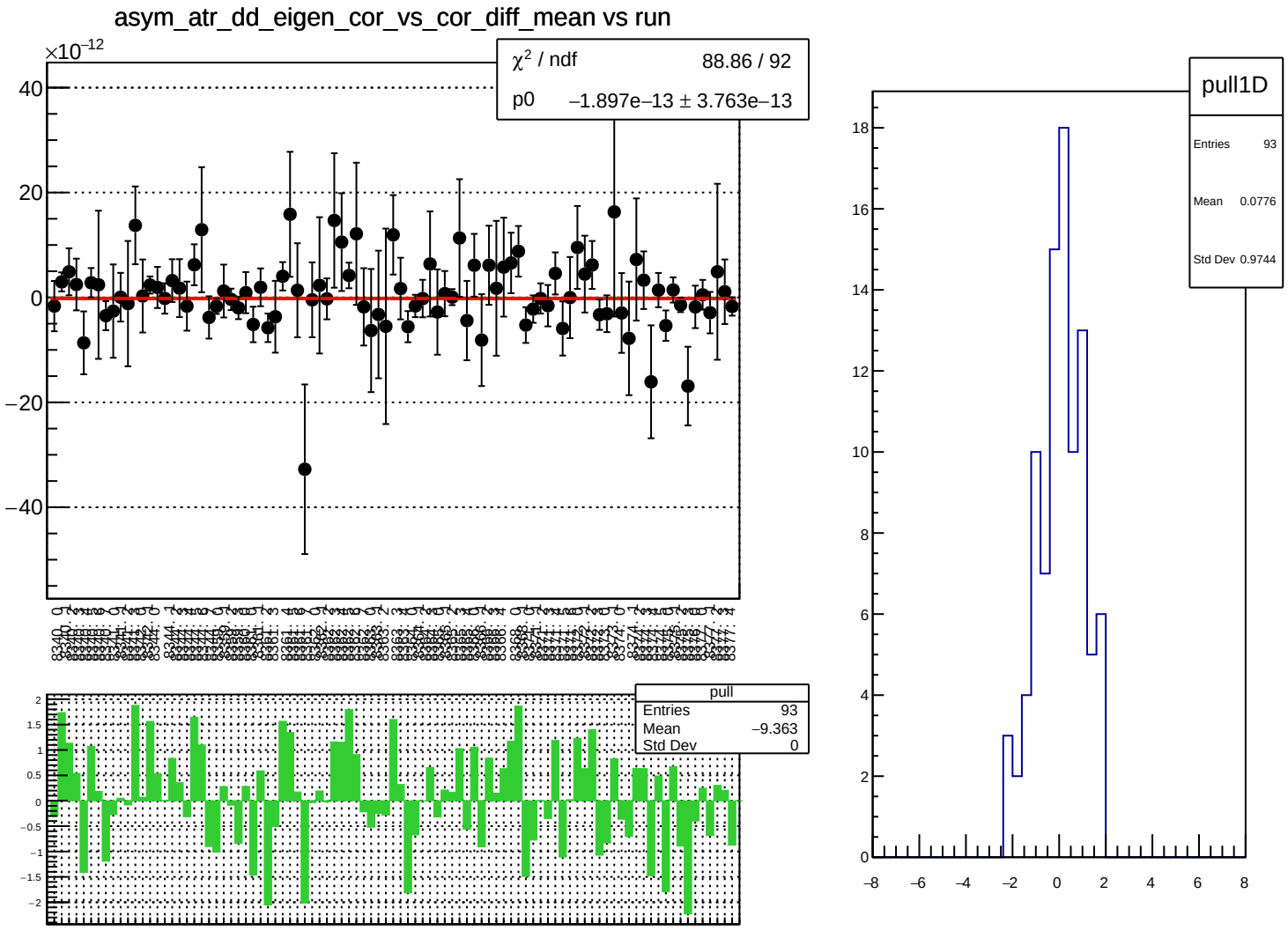

pull1D
Entries 93
Mean 0.006208
Std Dev 0.9136

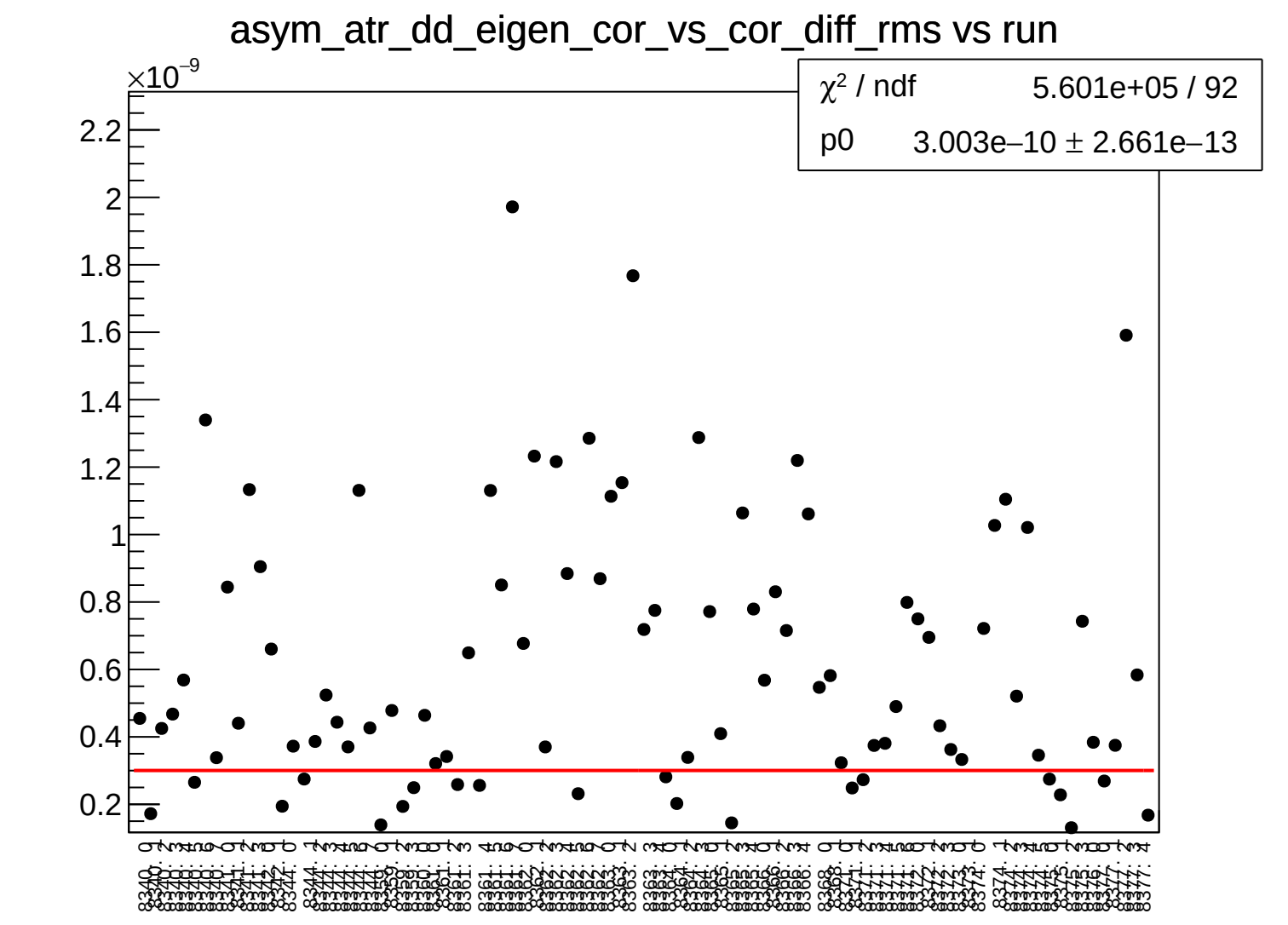

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.649e+04 / 92
p0 124.4 ± 0.09358
200
180
160
140
120
100
80
60

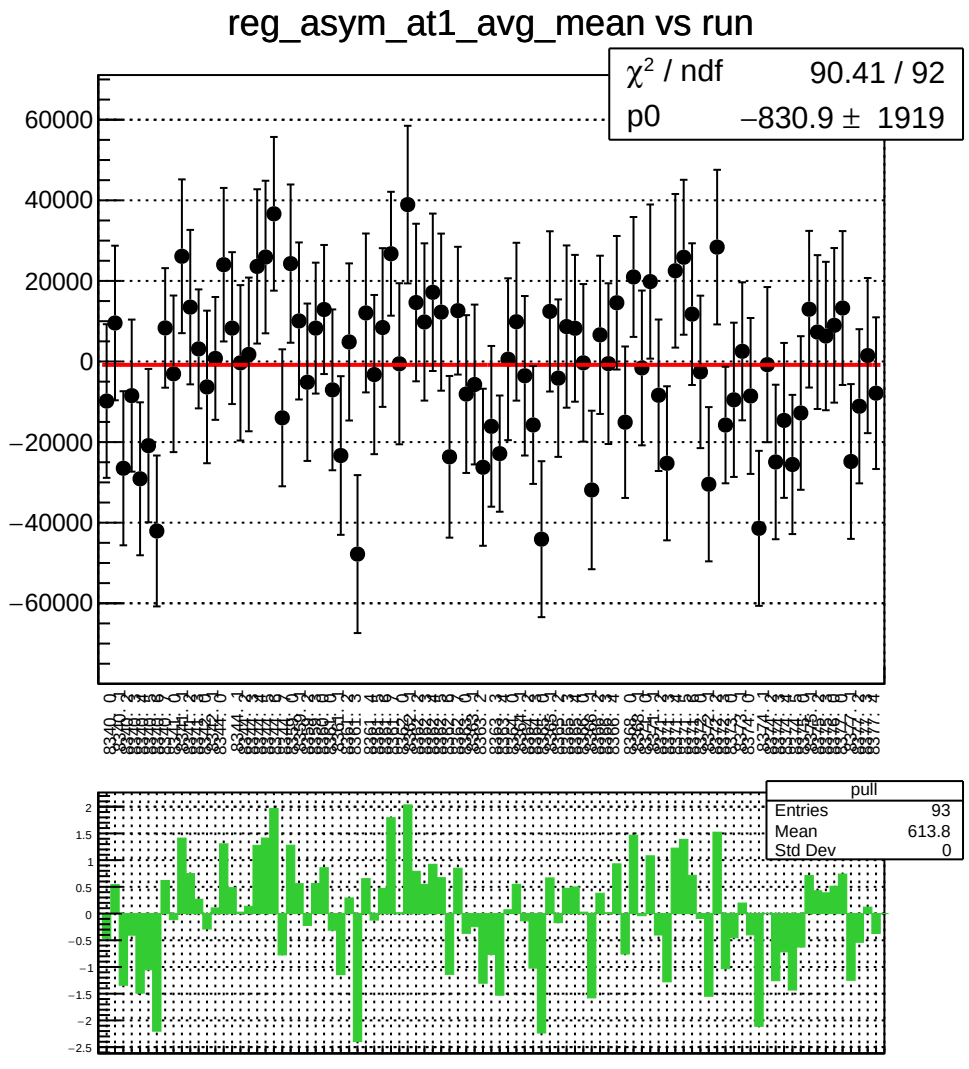

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.63 / 92
p0 0.0755 ± 0.1323
pull
Entries 93
Mean 13.35
Std Dev 151.9

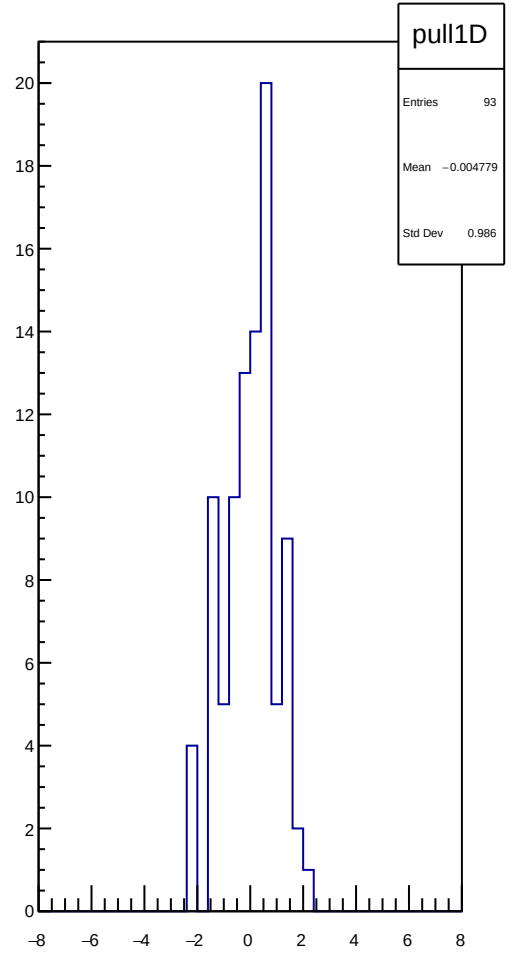

pull1D
Entries 93
Mean 0.006208
Std Dev 0.9136

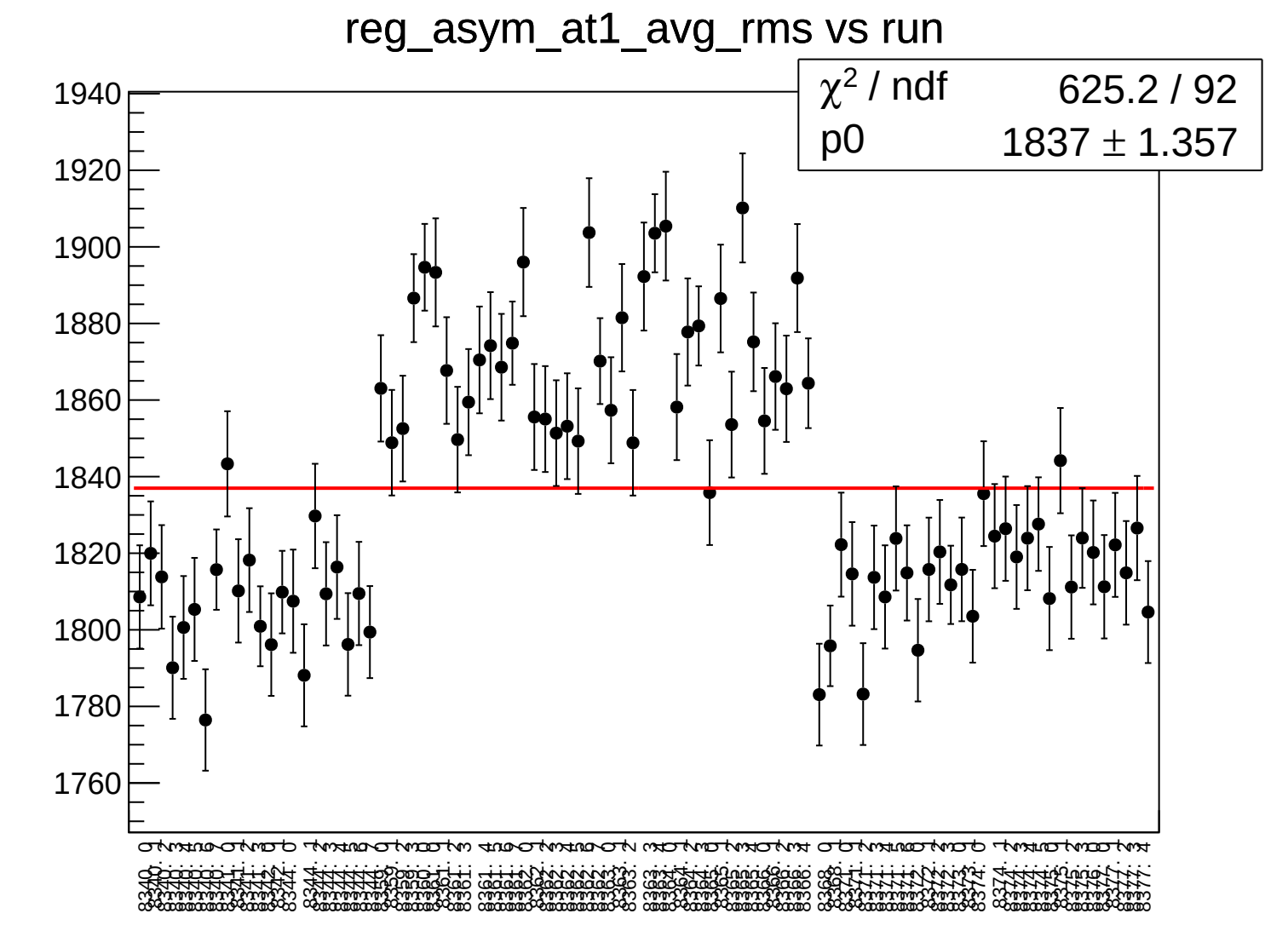

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.649e+04 / 92
p0 124.4 ± 0.09358
200
180
160
140
120
100
80
60

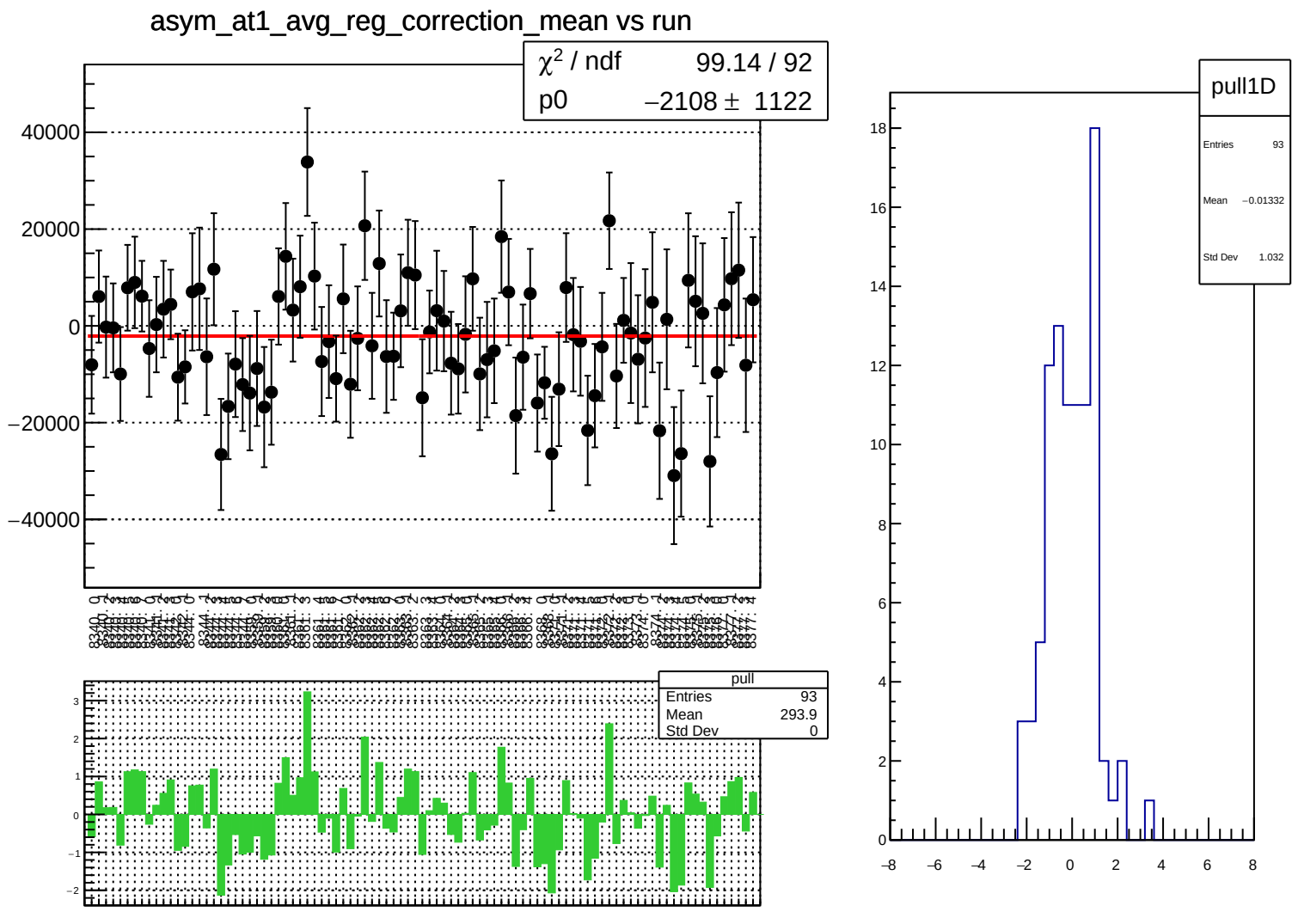

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.86 / 92
p0 −1.897e−13 ± 3.763e−13
40
20
0
−20
−40
pull
Entries 93
Mean −9.363
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0776
Std Dev 0.9744
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

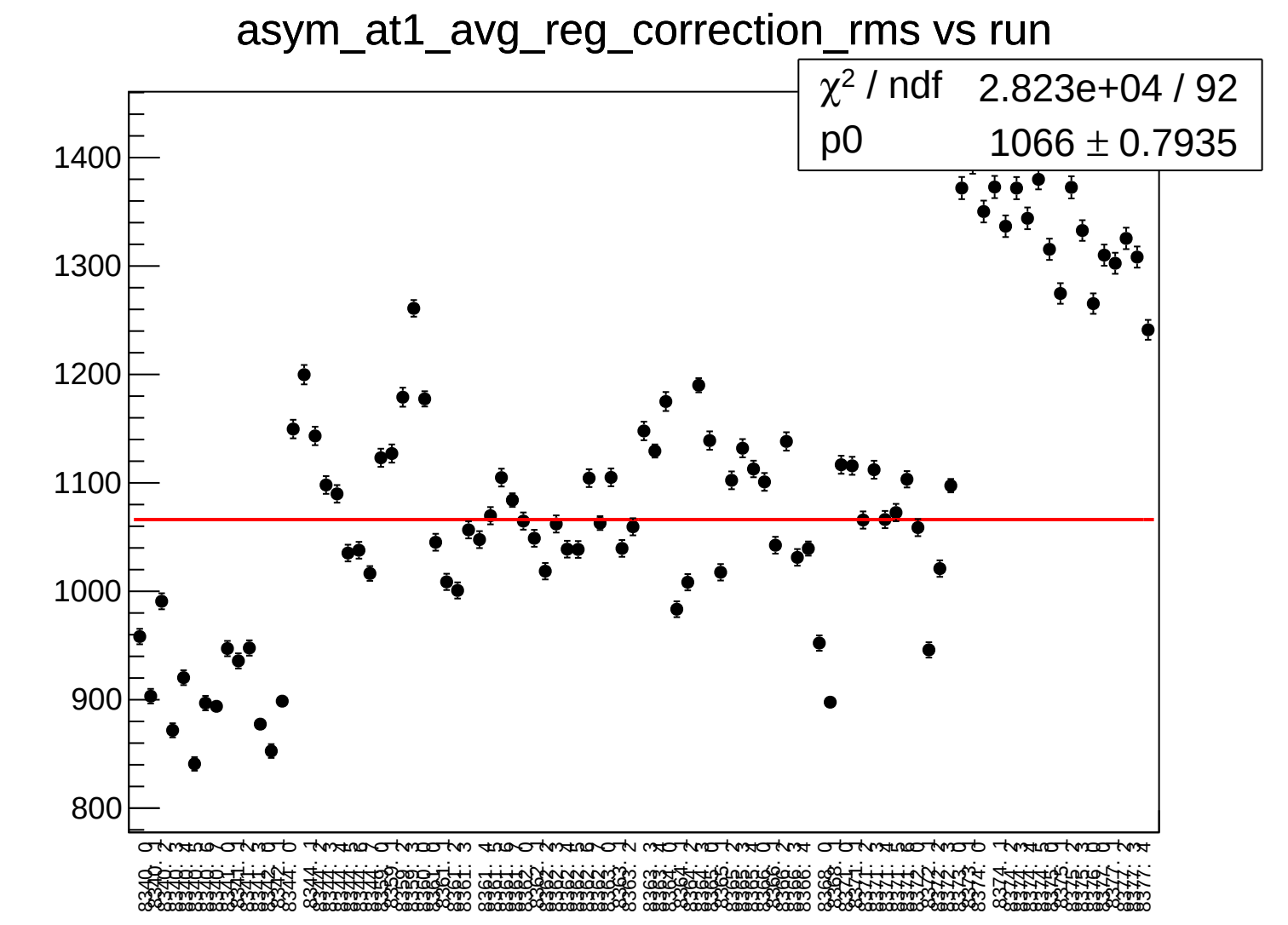

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.601e+05 / 92
p0 3.003e−10 ± 2.661e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

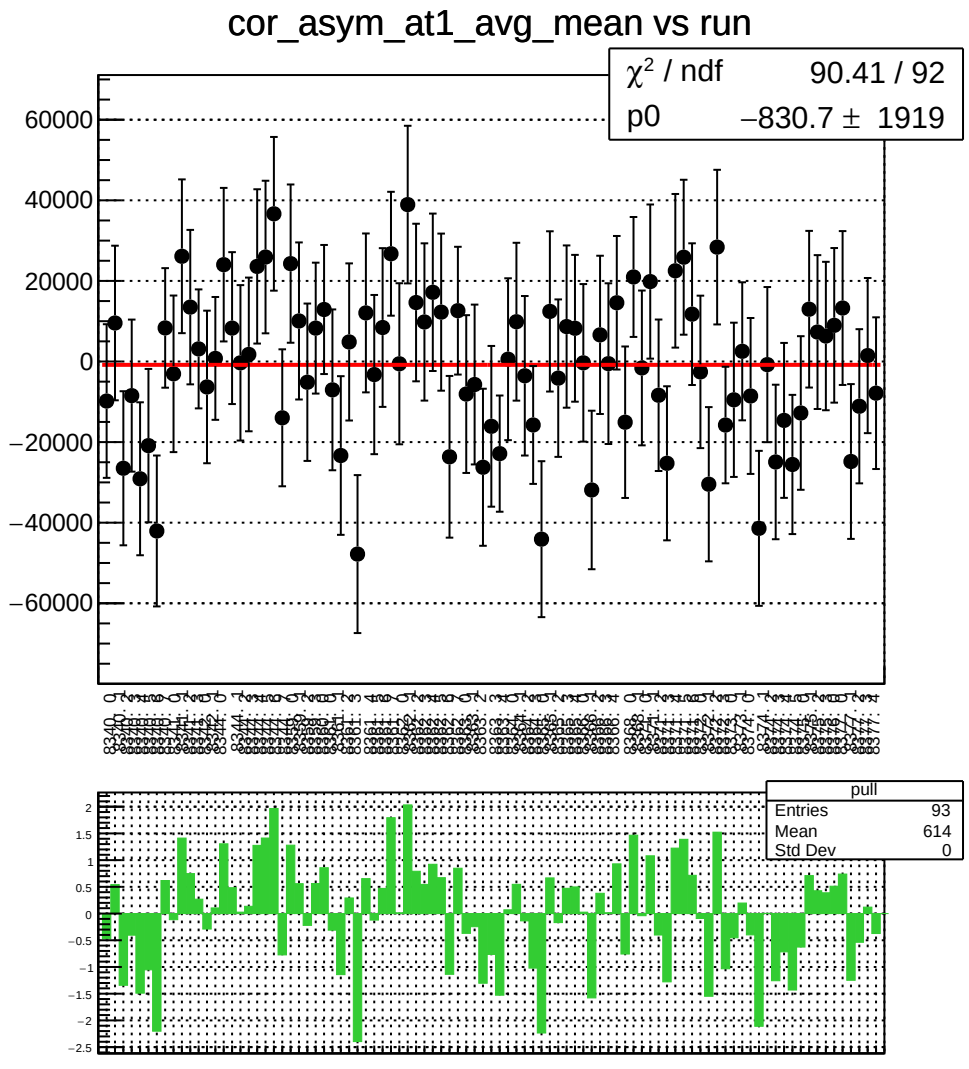

reg_asym_at1_avg_mean vs run
χ² / ndf 90.41 / 92
p0 −830.9 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 613.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

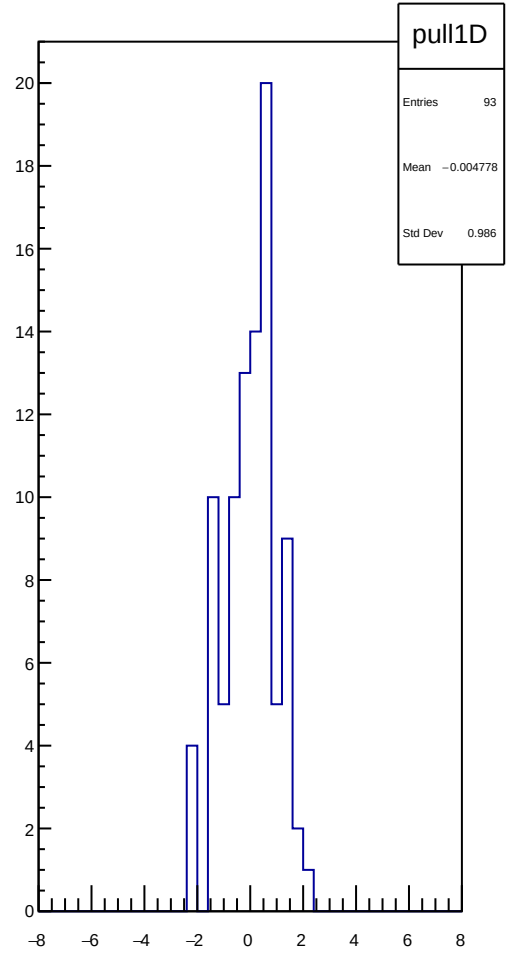

pull1D
Entries 93
Mean −0.004779
Std Dev 0.986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

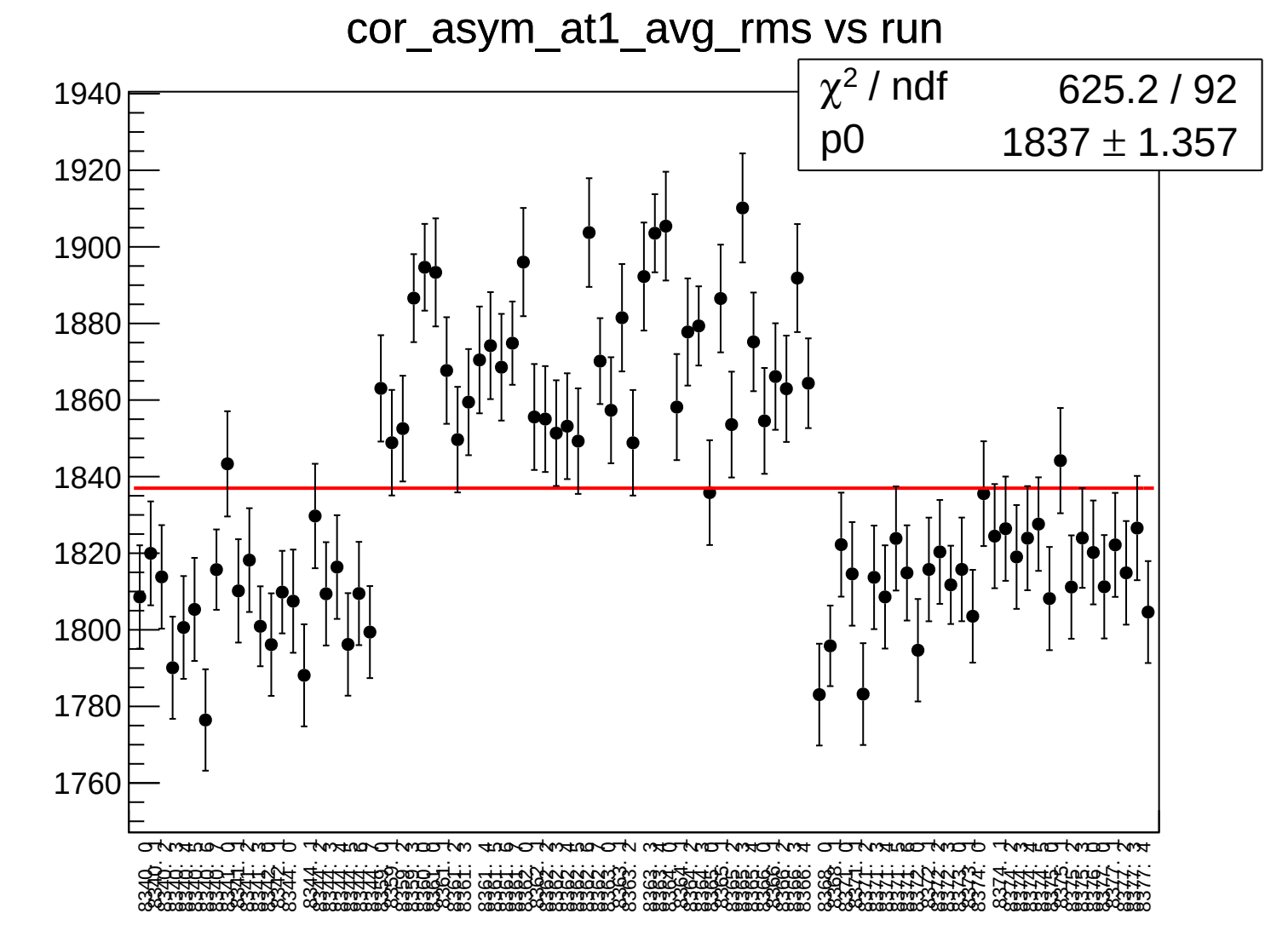

reg_asym_at1_avg_rms vs run
χ² / ndf 625.2 / 92
p0 1837 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

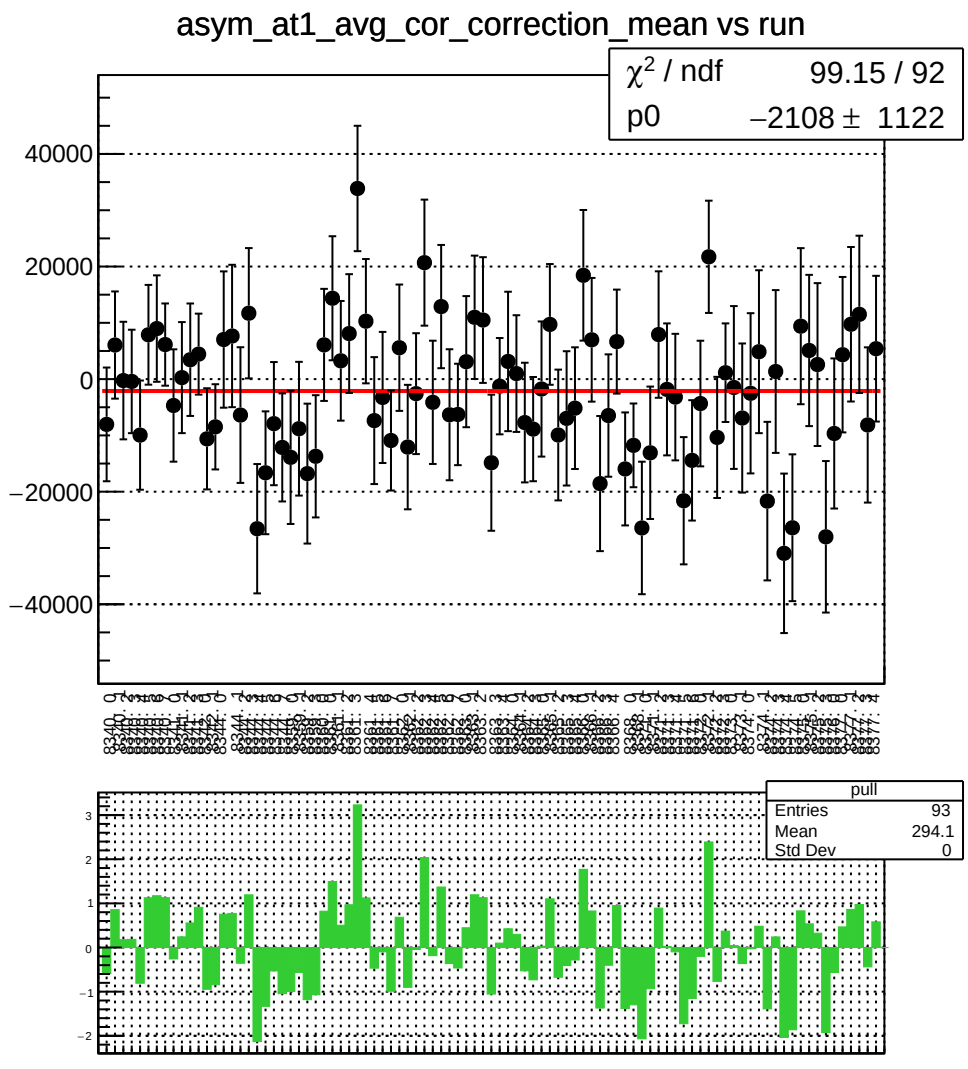

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 99.14 / 92
p0 −2108 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 293.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01332
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

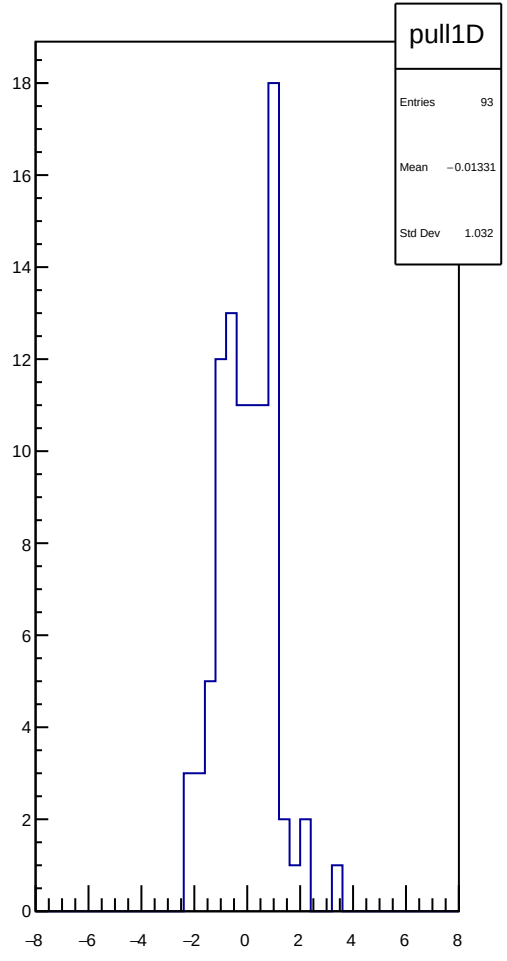

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 2.823e+04 / 92
p0 1066 ± 0.7935
1400
1300
1200
1100
1000
900
800


cor_asym_at1_avg_mean vs run
χ² / ndf 90.41 / 92
p0 −830.7 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 614
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.004778
Std Dev 0.986
20
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
χ² / ndf 625.2 / 92
p0 1837 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760


asym_at1_avg_cor_correction_mean vs run
χ² / ndf 99.15 / 92
p0 −2108 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 294.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.01331
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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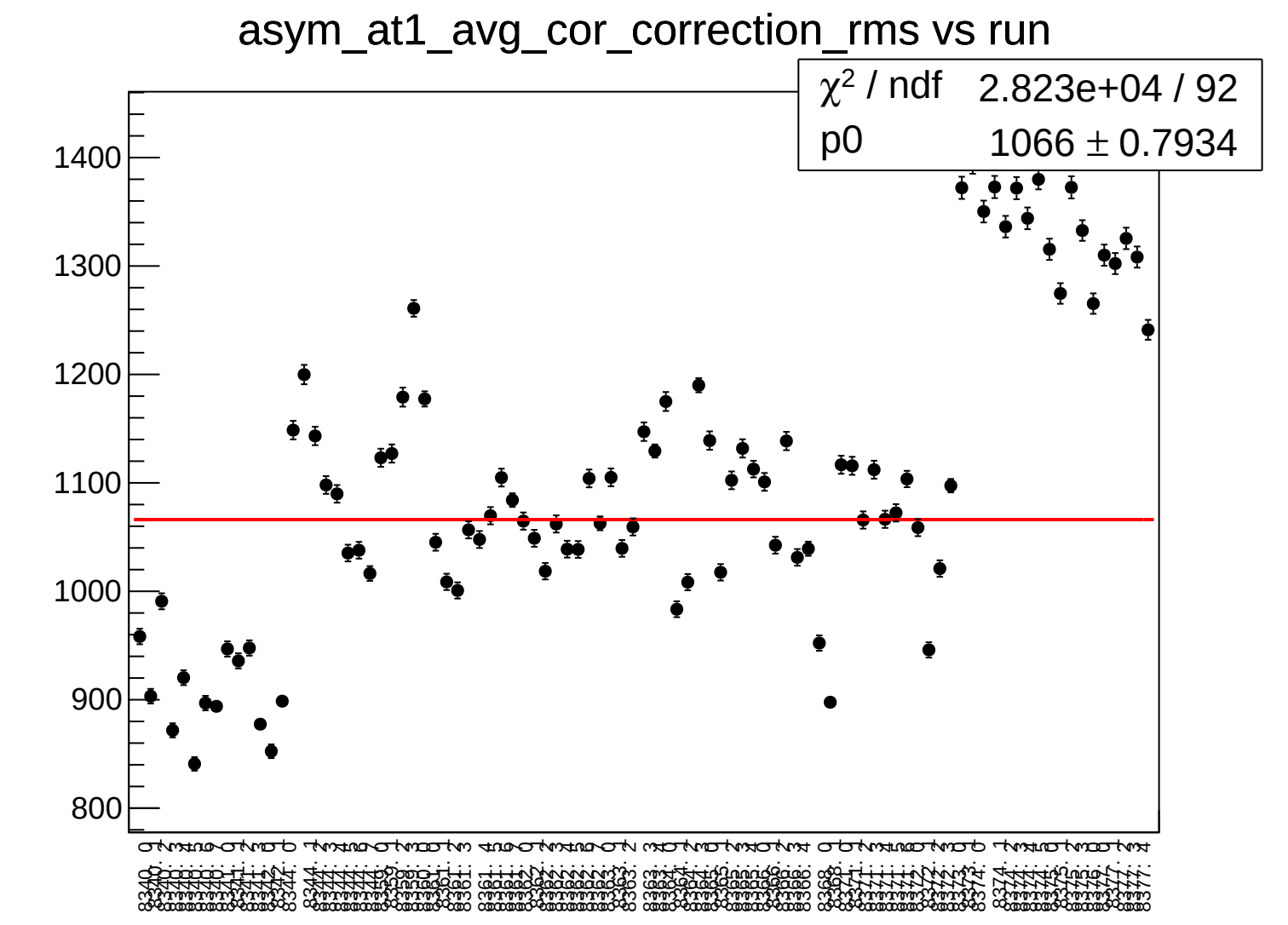
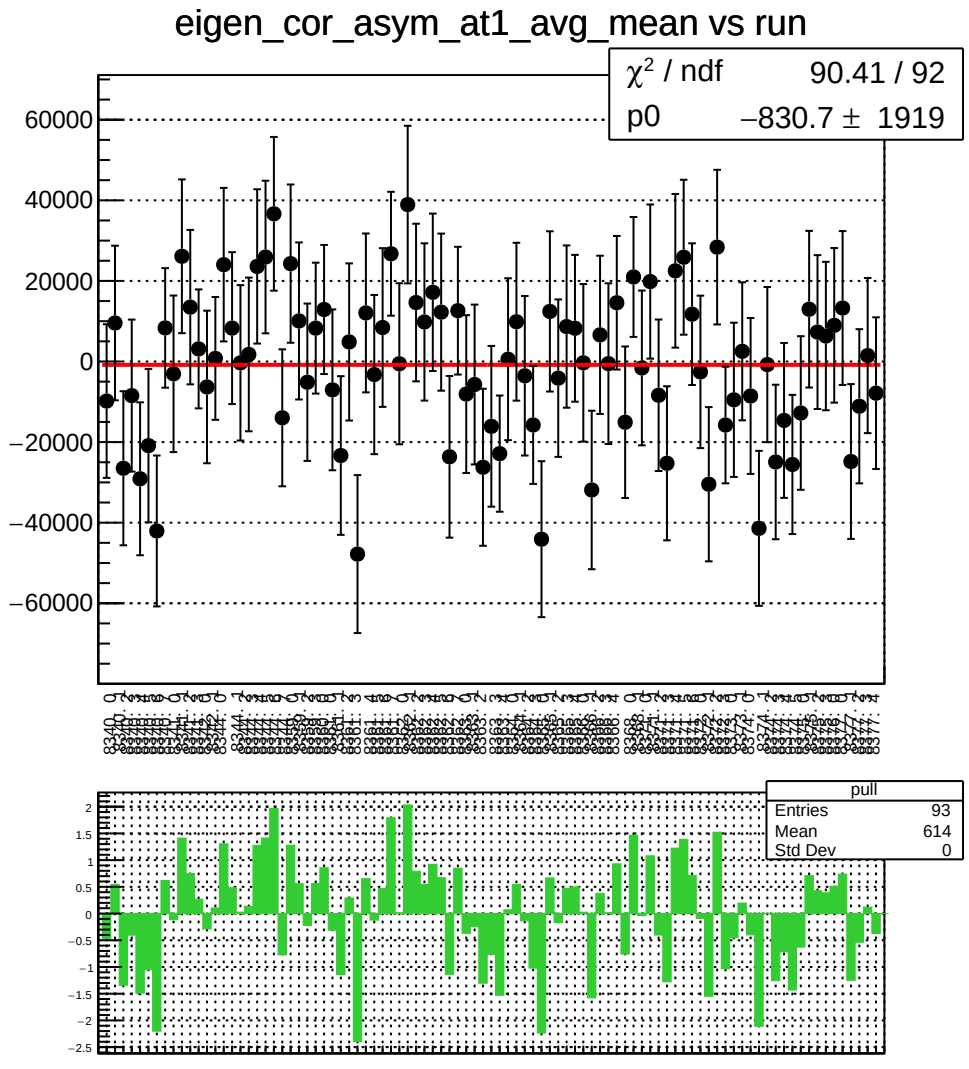
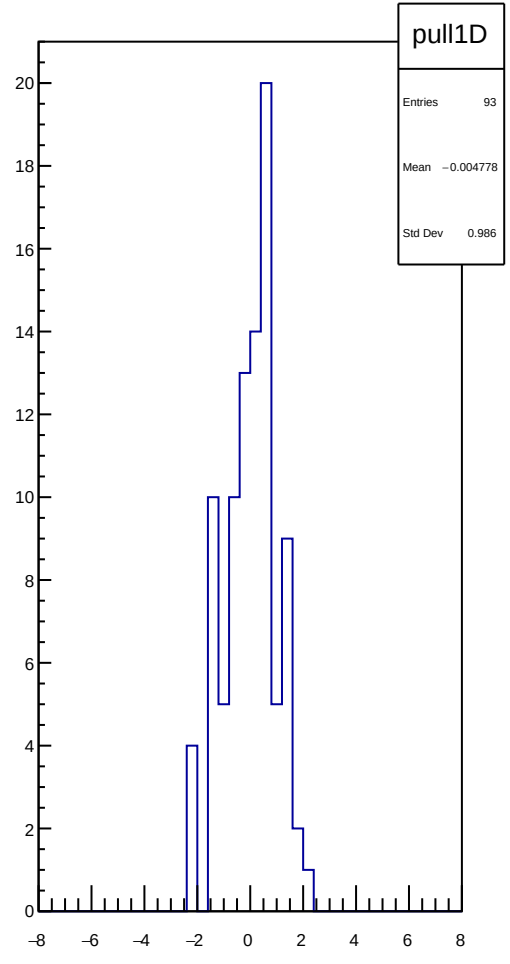
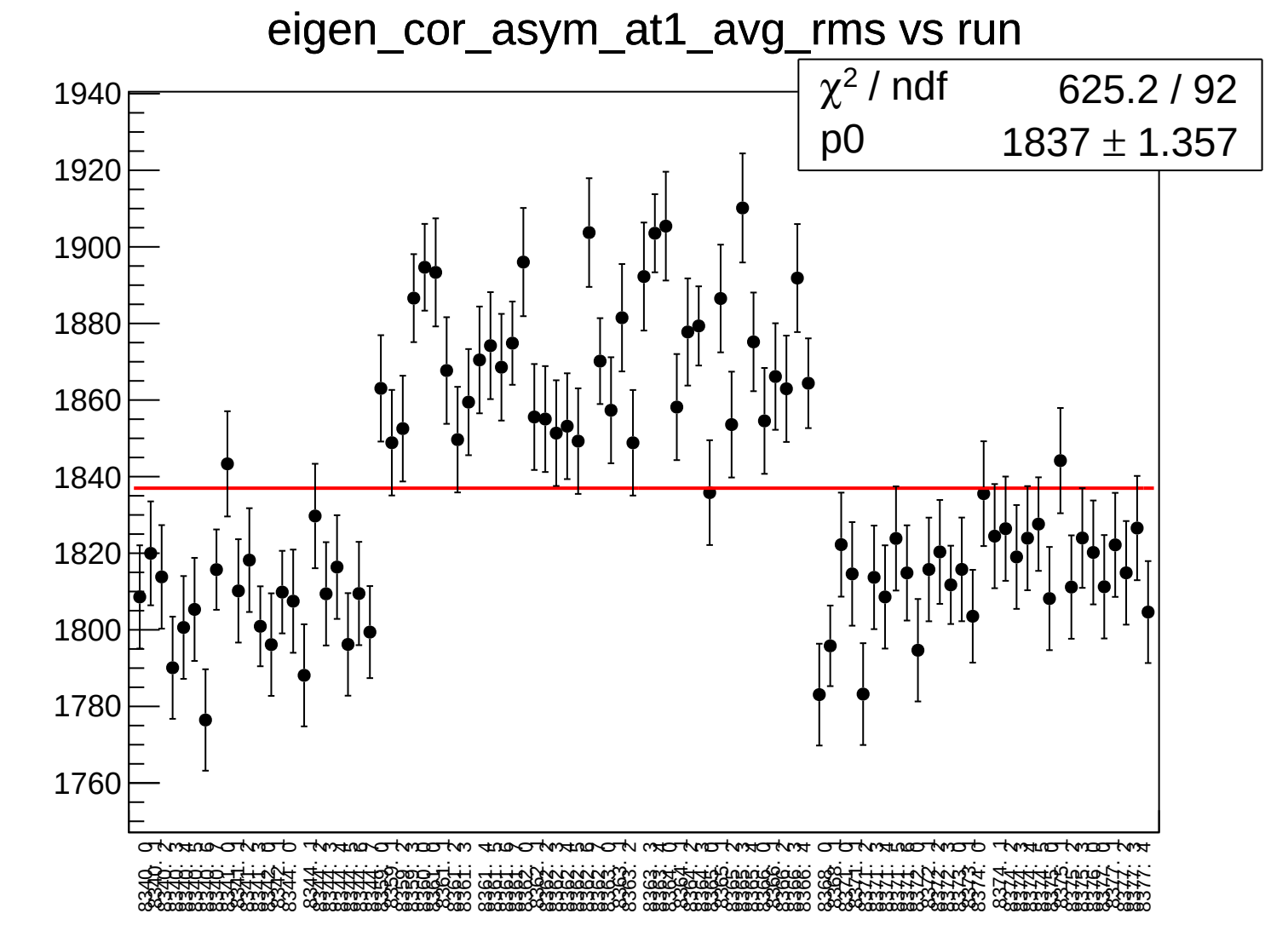
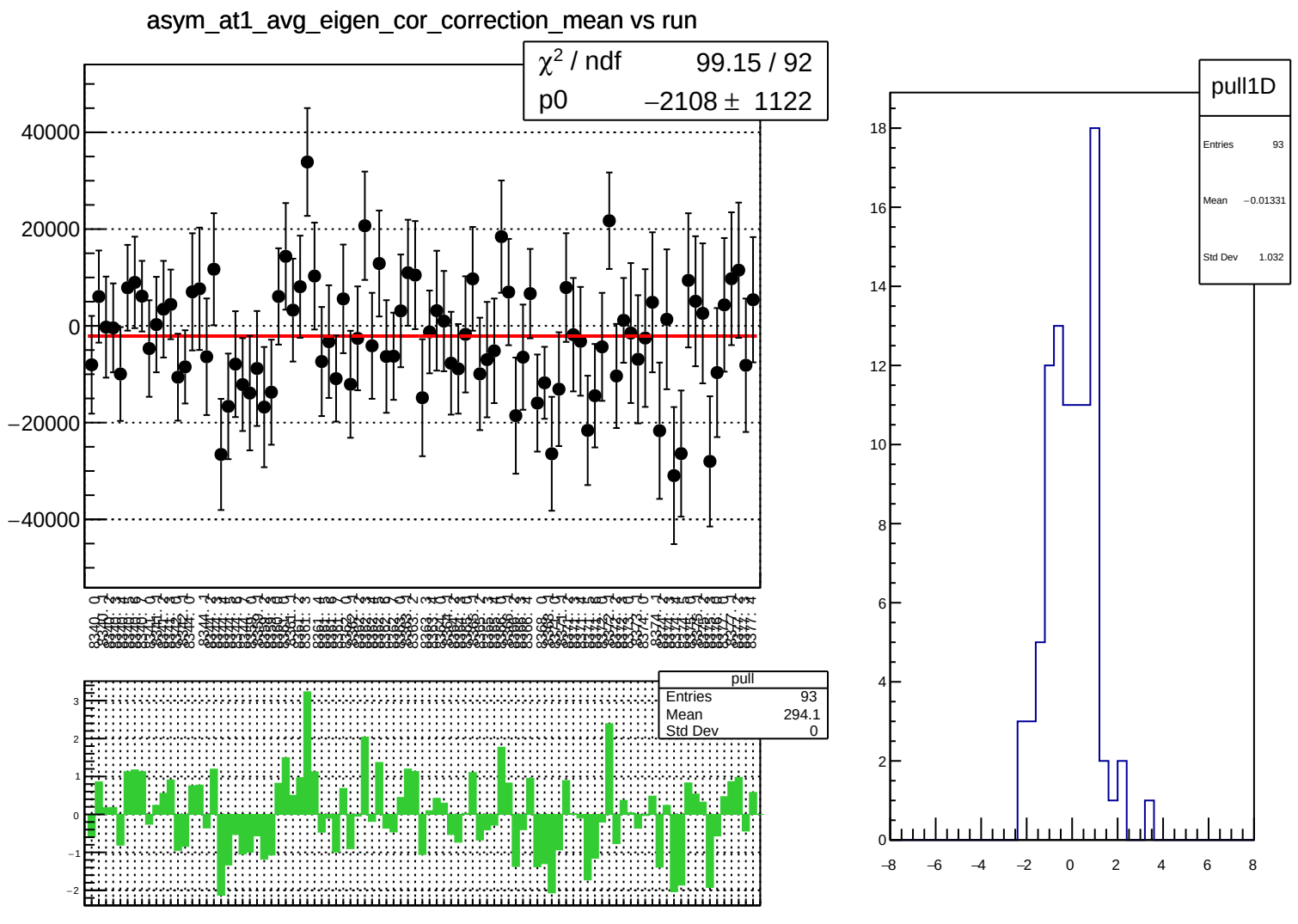
0
2
4
6
8

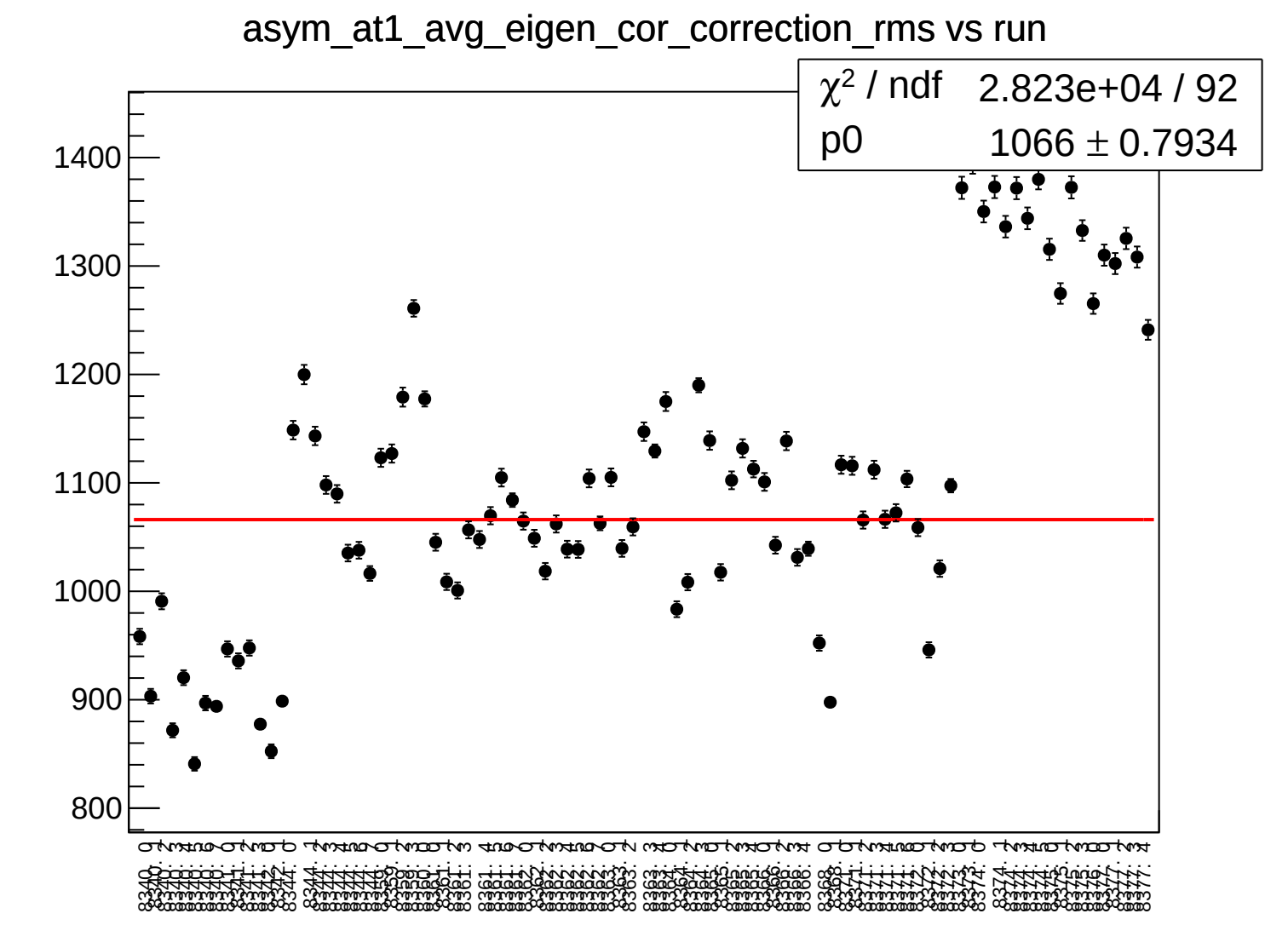

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 2.823e+04 / 92
p0 1066 ± 0.7934
1400
1300
1200
1100
1000
900
800

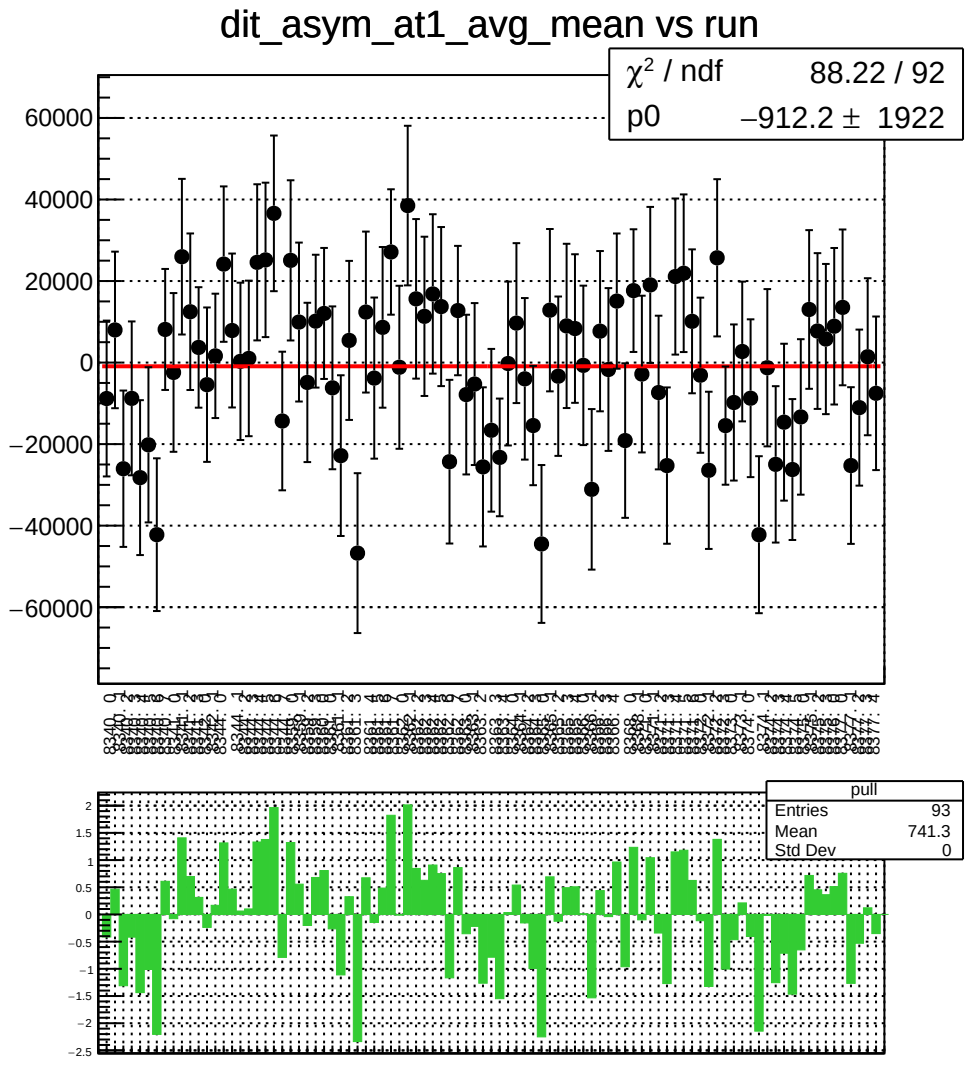

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 90.41 / 92
p0 −830.7 ± 1919
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 614
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

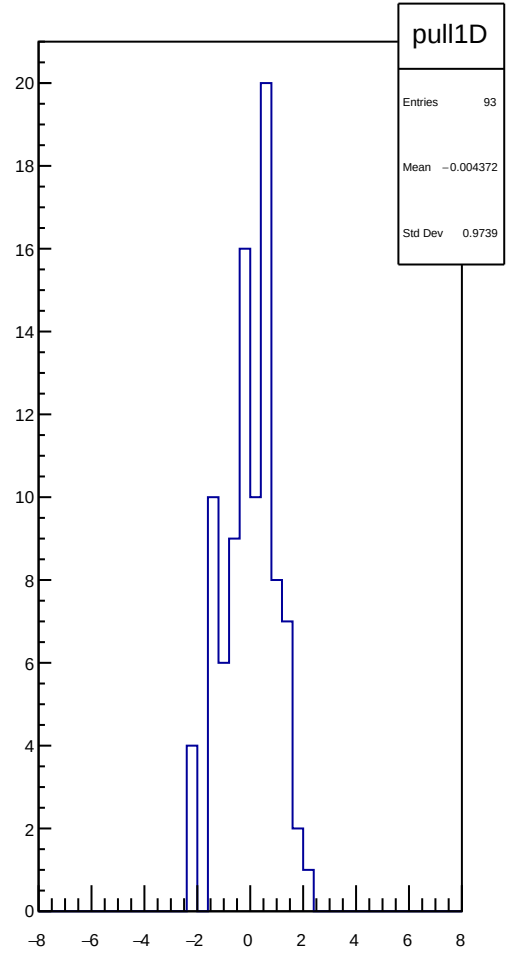

pull1D
Entries 93
Mean −0.004778
Std Dev 0.986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

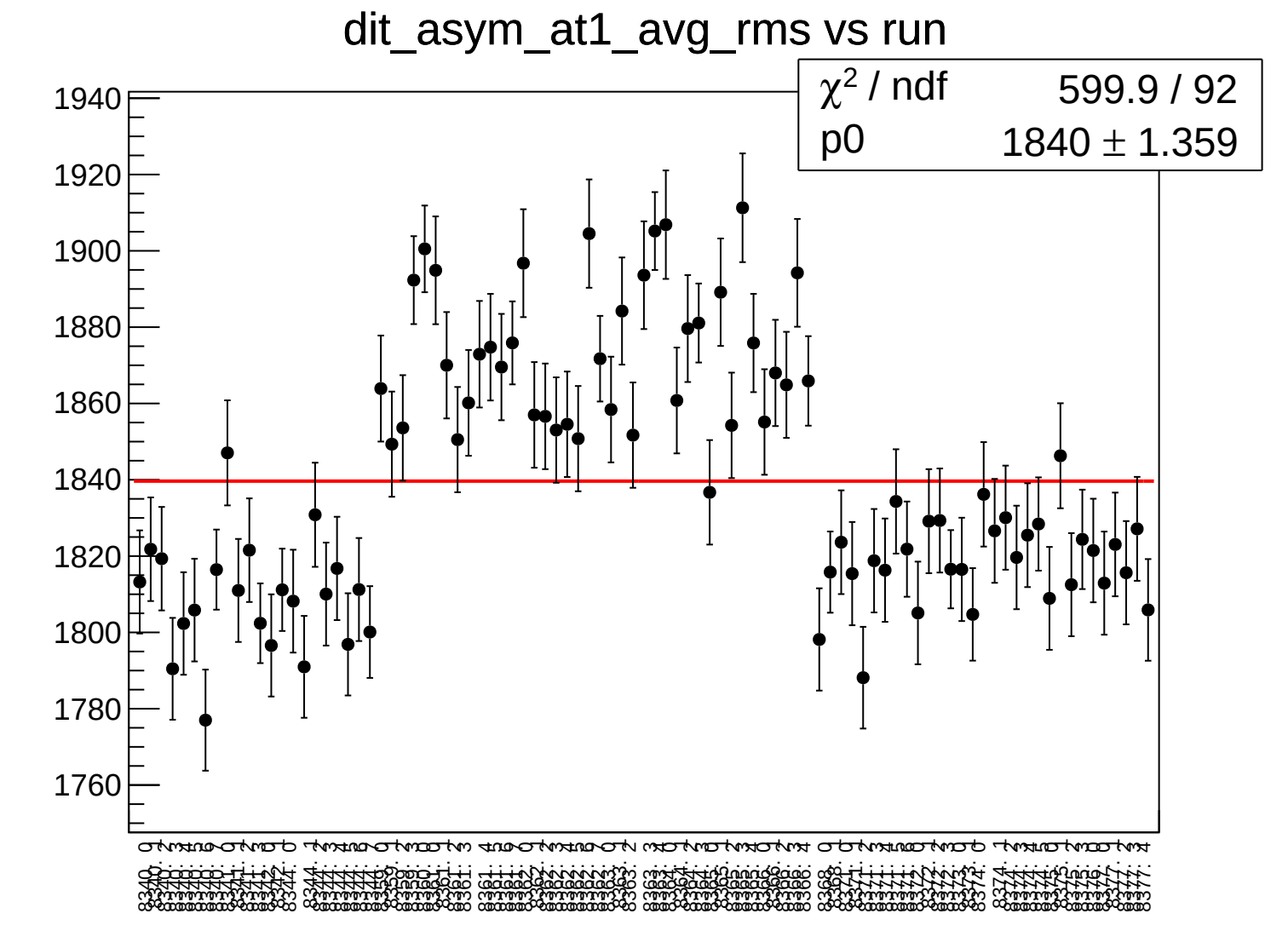

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 625.2 / 92
p0 1837 ± 1.357
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

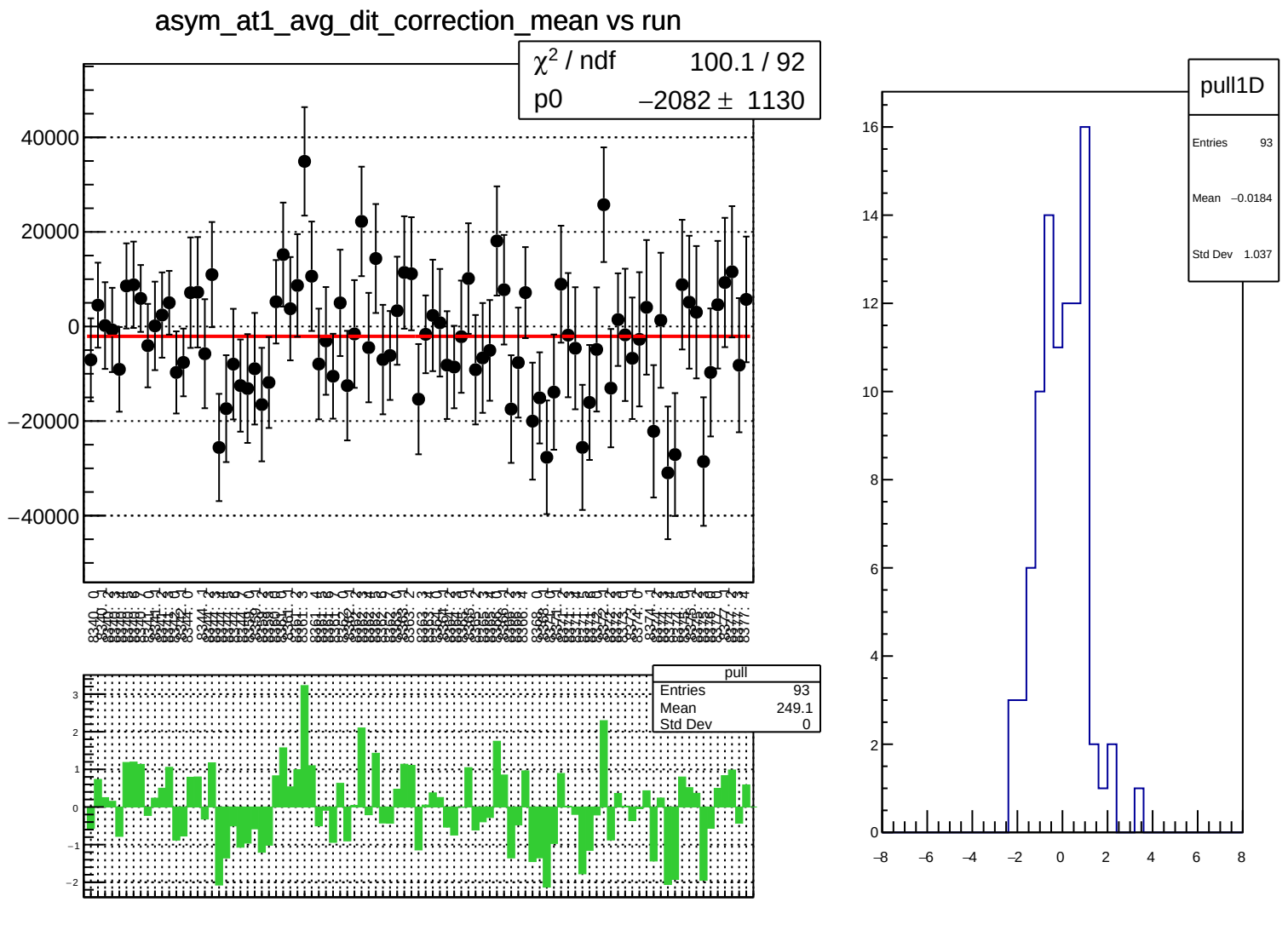

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.15 / 92
p0 −2108 ± 1122
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 294.1
Std Dev 0
pull1D
Entries 93
Mean −0.01331
Std Dev 1.032

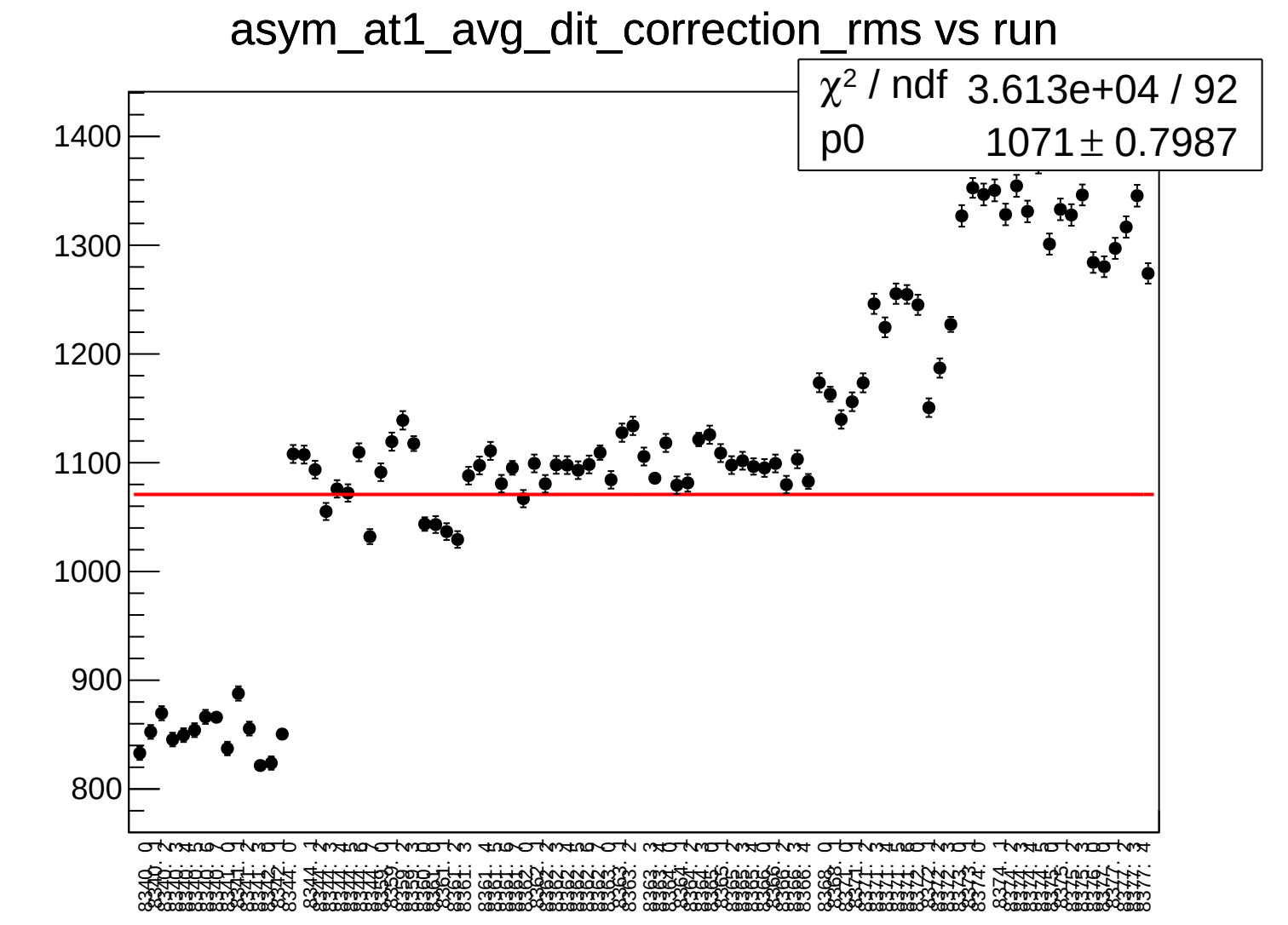

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.823e+04 / 92
p0 1066 ± 0.7934
1400
1300
1200
1100
1000
900
800

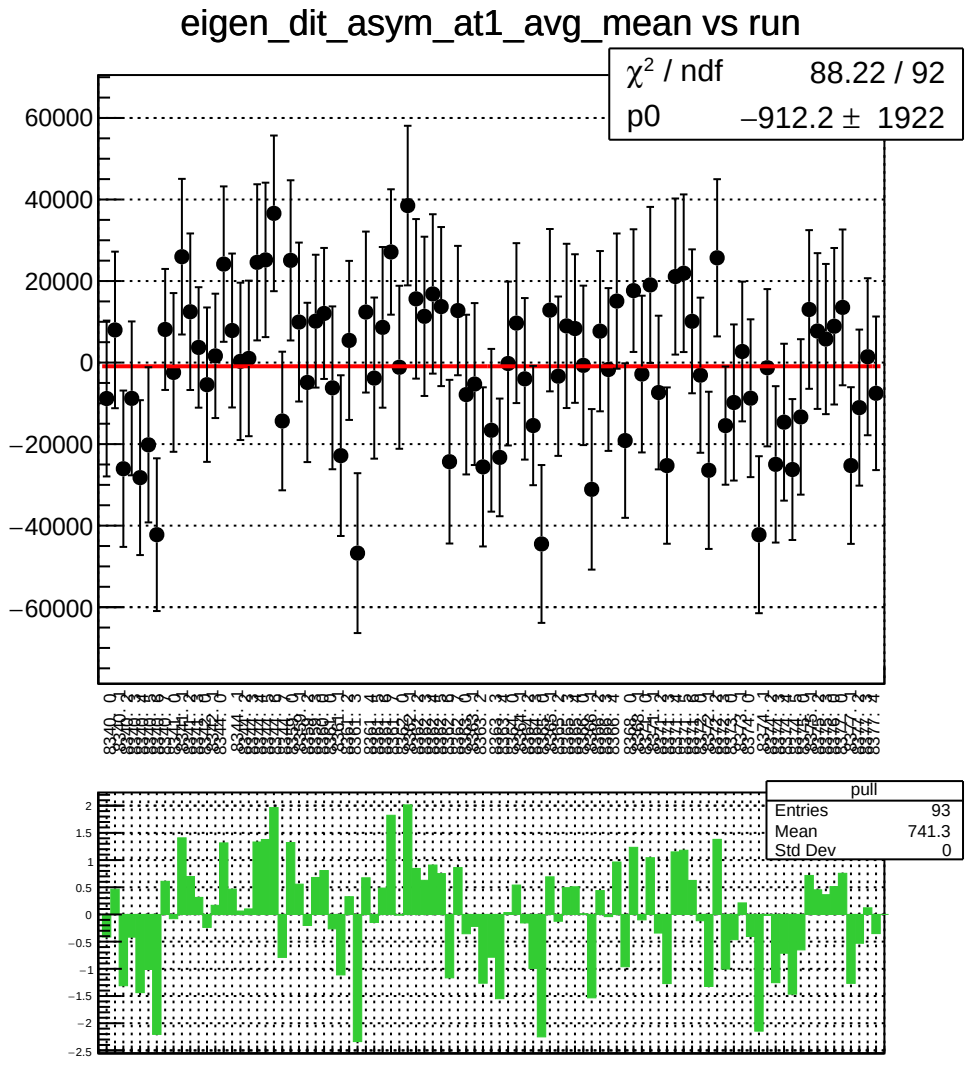

dit_asym_at1_avg_mean vs run
χ² / ndf 88.22 / 92
p0 −912.2 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 741.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

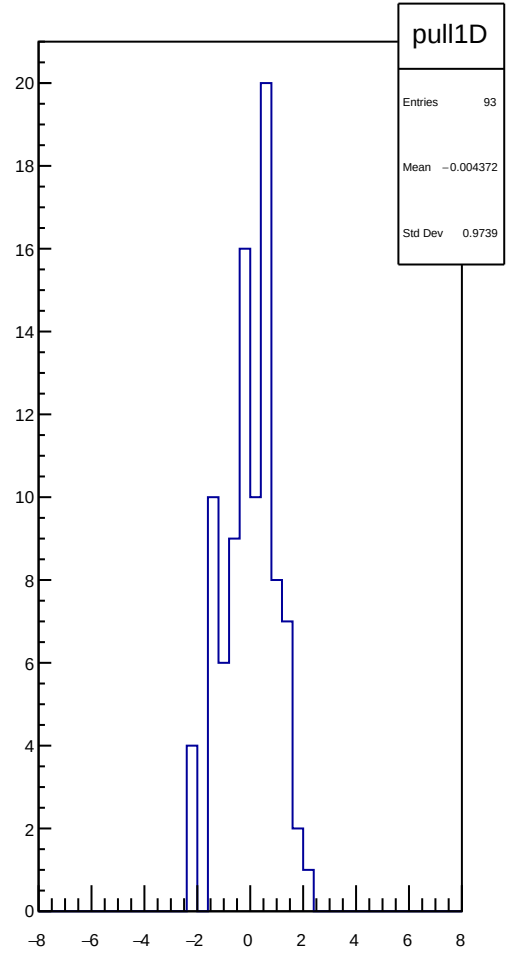

pull1D
Entries 93
Mean −0.004372
Std Dev 0.9739
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

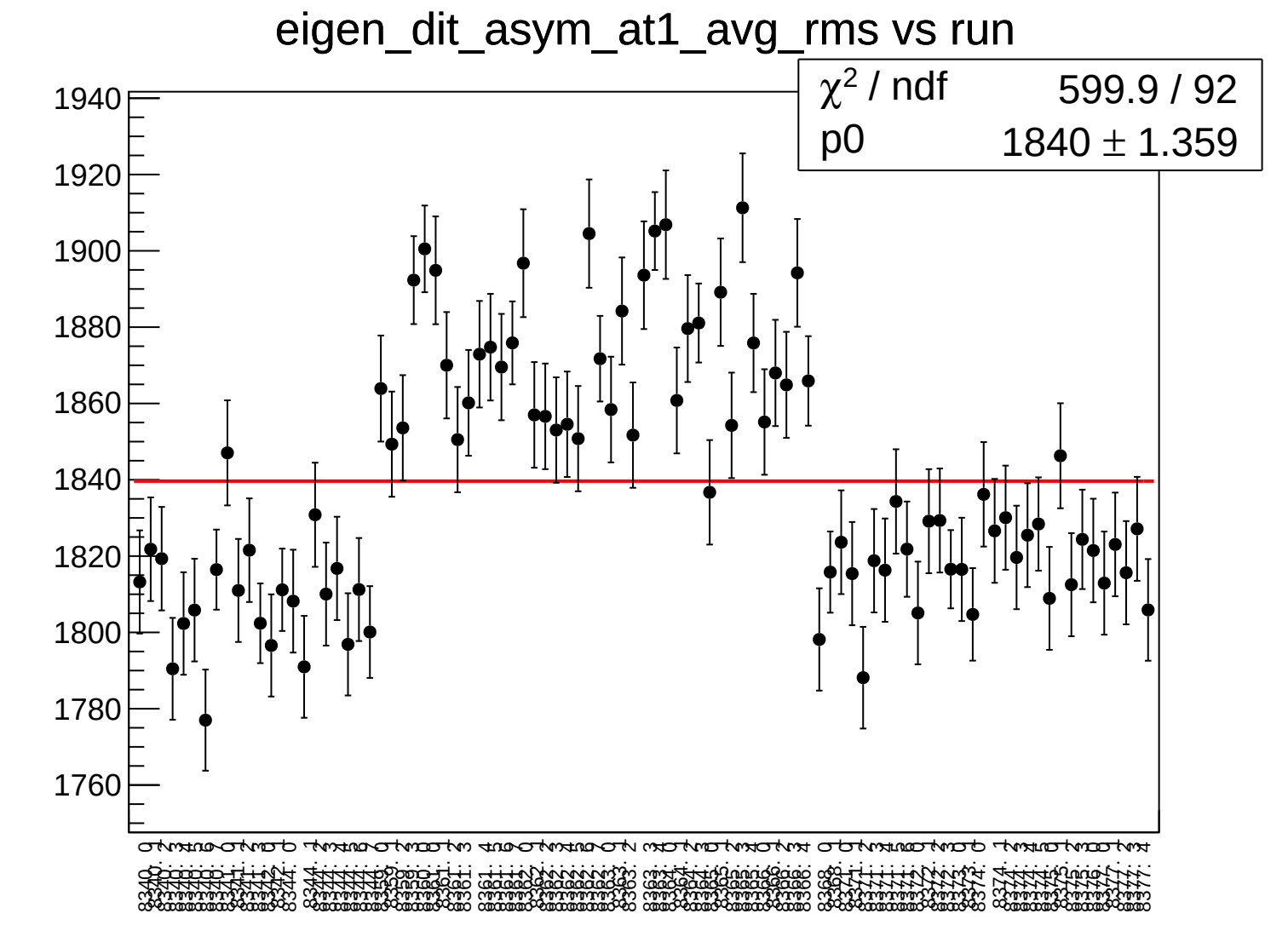

dit_asym_at1_avg_rms vs run
χ² / ndf 599.9 / 92
p0 1840 ± 1.359
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

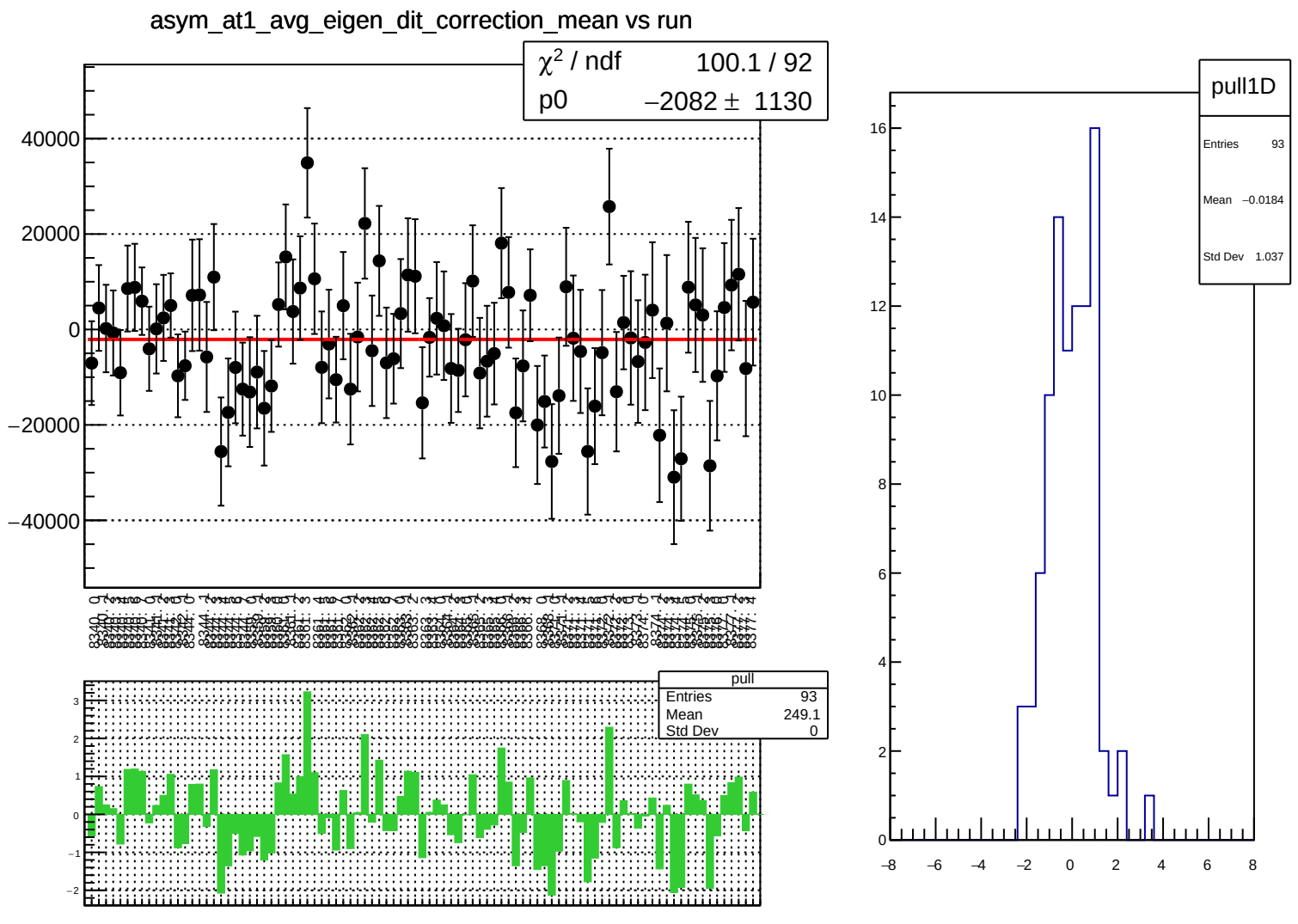

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 100.1 / 92
p0 −2082 ± 1130
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 249.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0184
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

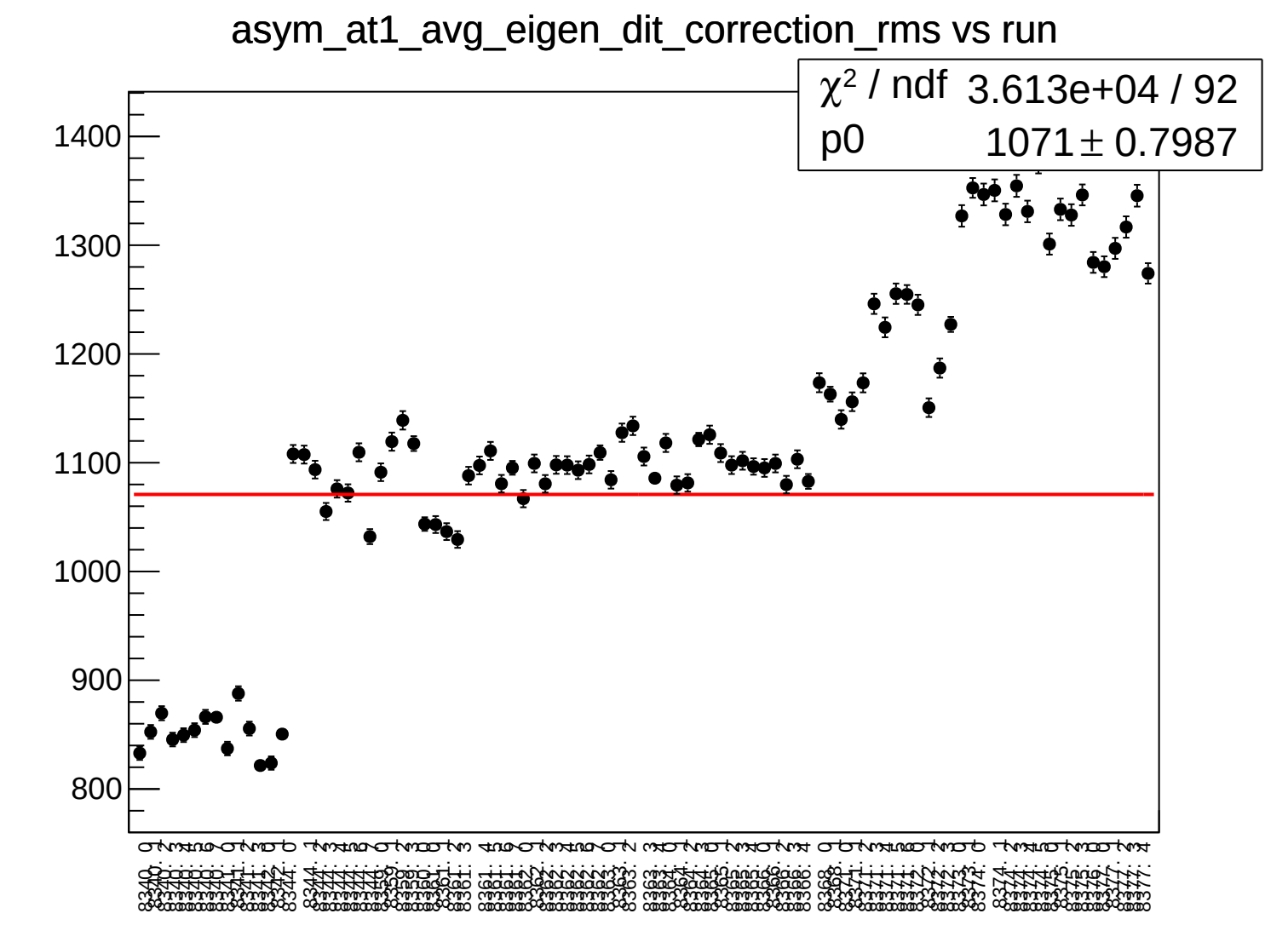

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3.613e+04 / 92
p0 1071 ± 0.7987
1400
1300
1200
1100
1000
900
800

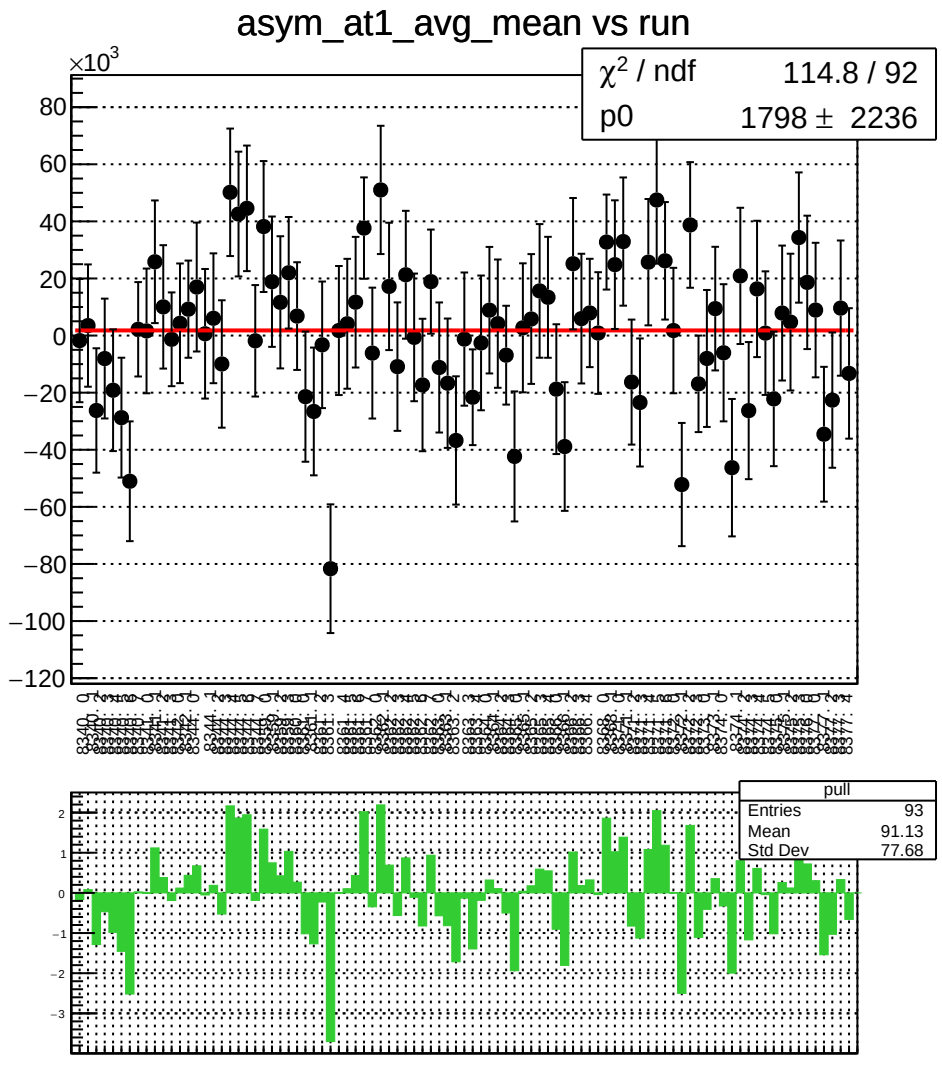

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 88.22 / 92
p0 −912.2 ± 1922
pull
Entries 93
Mean 741.3
Std Dev 0

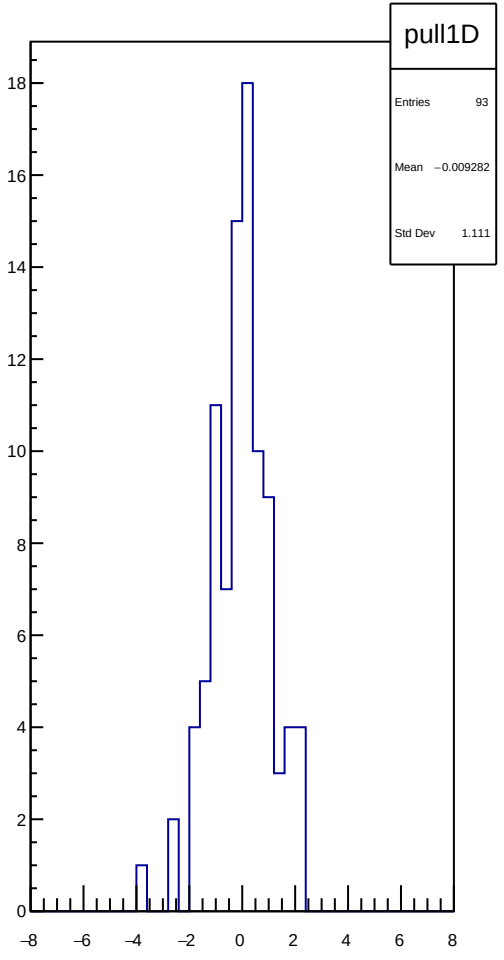

pull1D
Entries 93
Mean −0.004372
Std Dev 0.9739

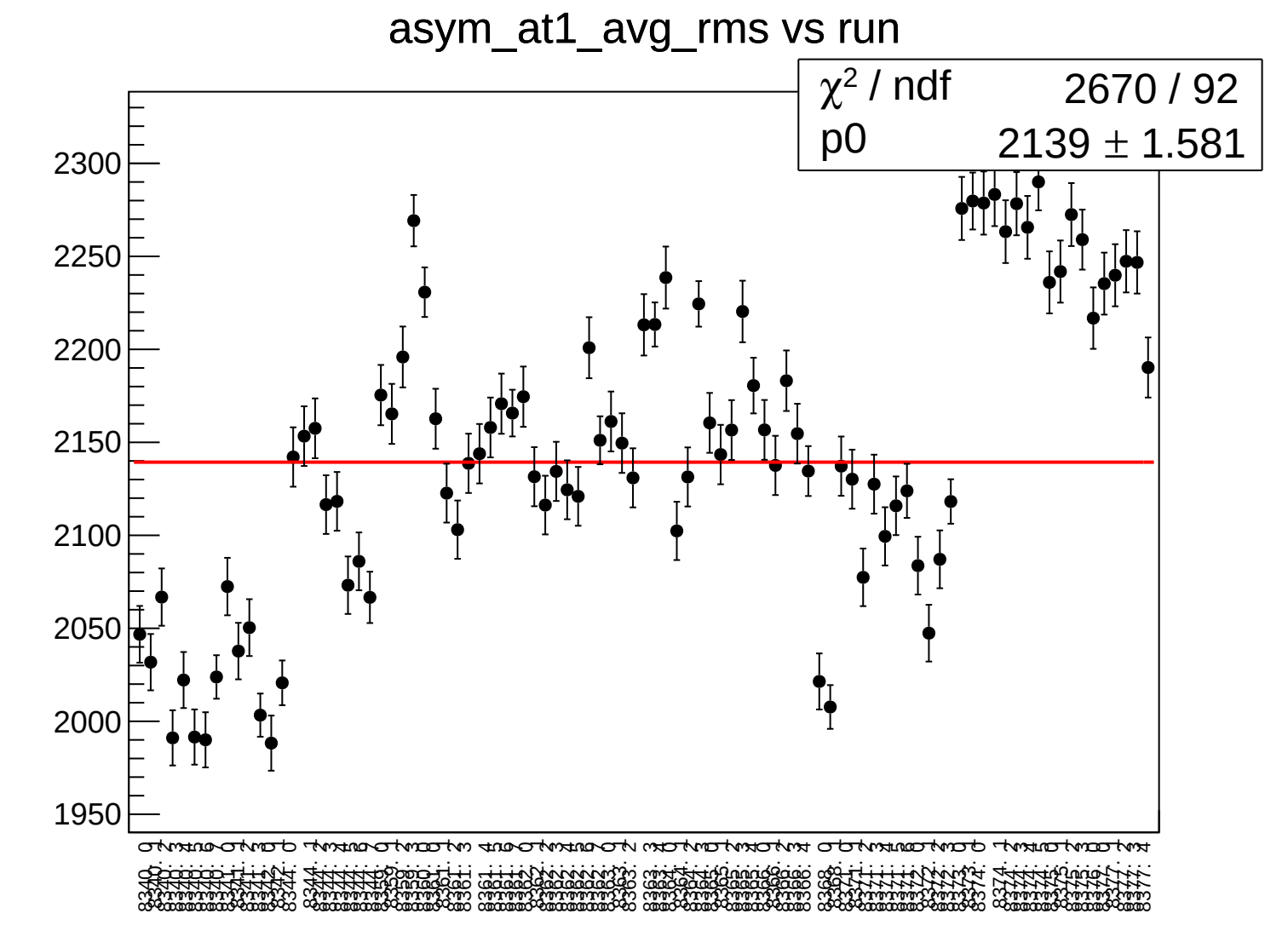

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 599.9 / 92
p0 1840 ± 1.359
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760

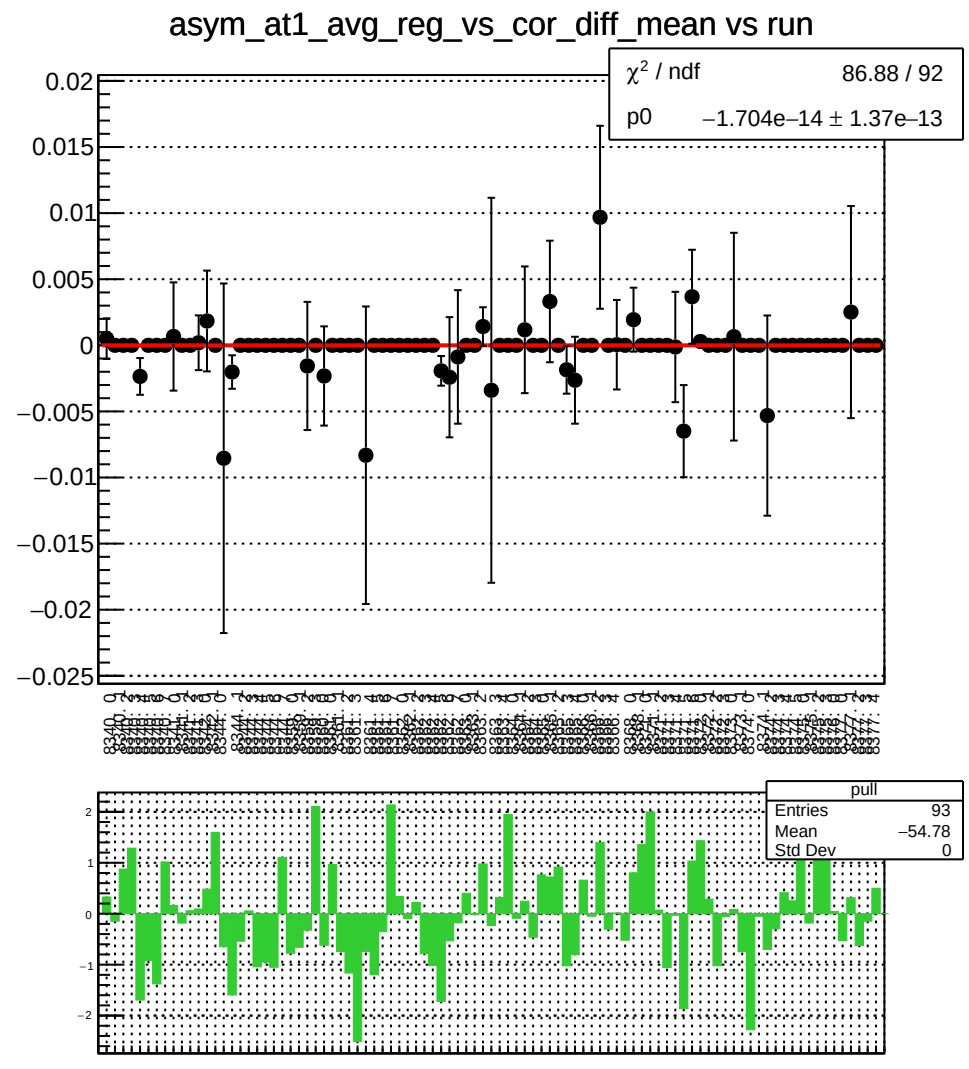

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.1 / 92
p0 −2082 ± 1130
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 249.1
Std Dev 0
pull1D
Entries 93
Mean −0.0184
Std Dev 1.037

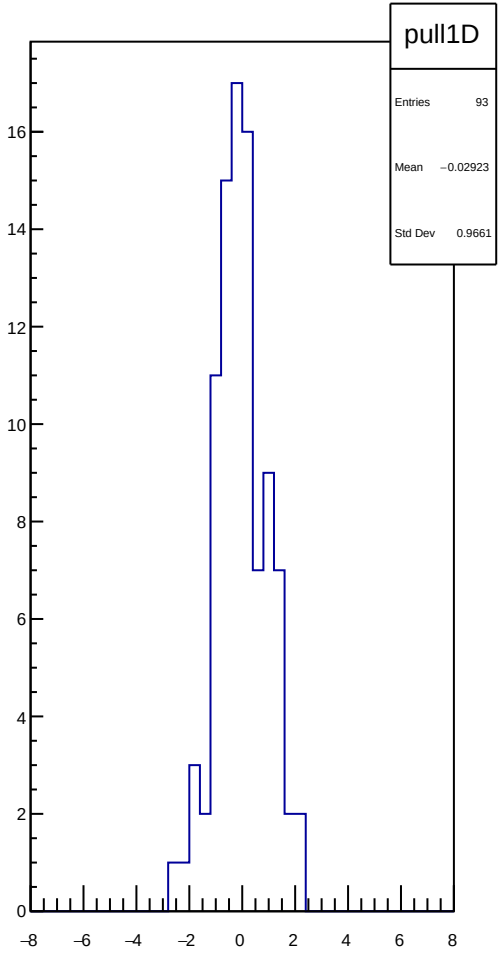

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.613e+04 / 92
p0 1071 ± 0.7987
1400
1300
1200
1100
1000
900
800

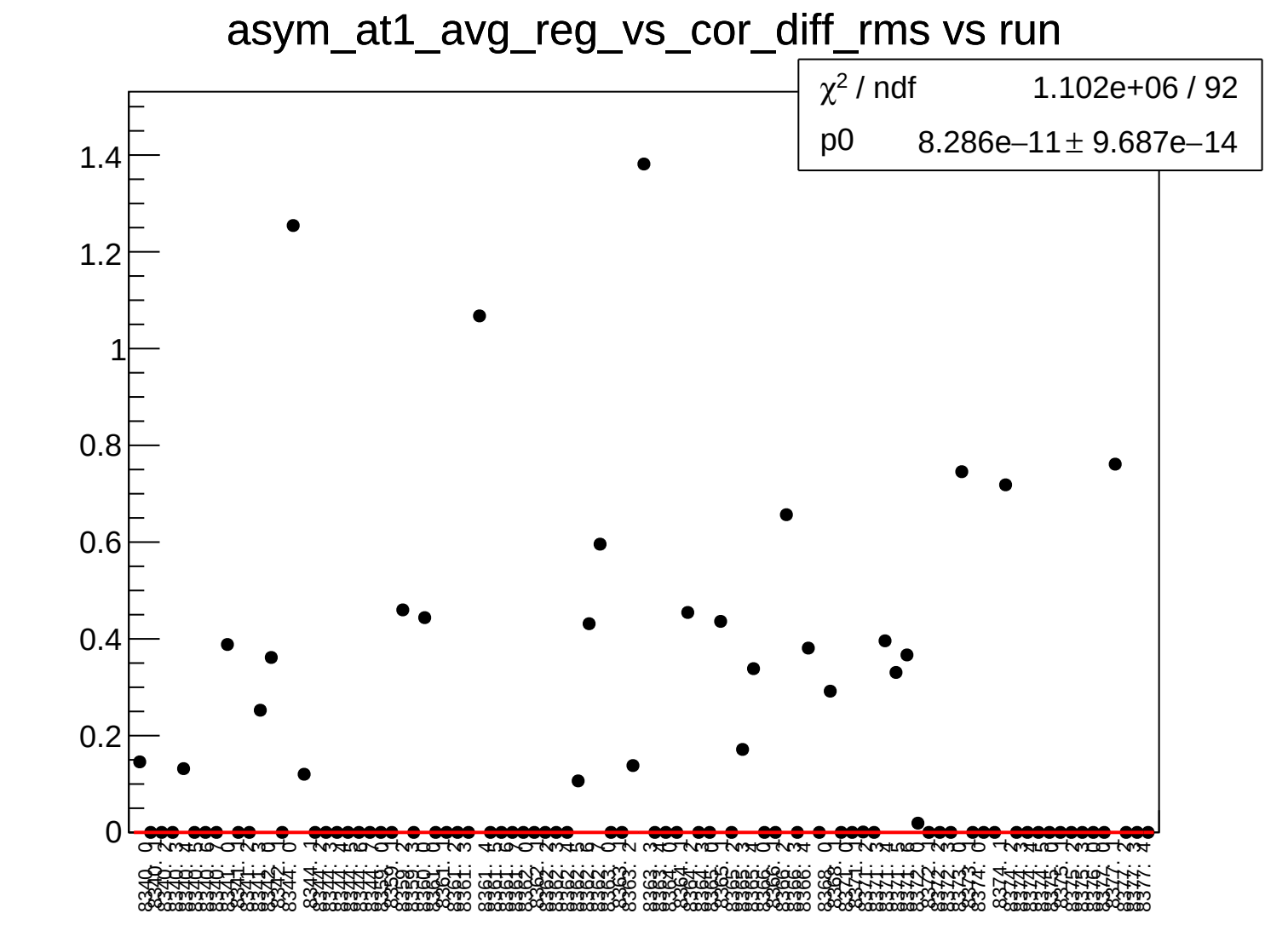

asym_at1_avg_mean vs run
×10^3
χ² / ndf 114.8 / 92
p0 1798 ± 2236
pull
Entries 93
Mean 91.13
Std Dev 77.68

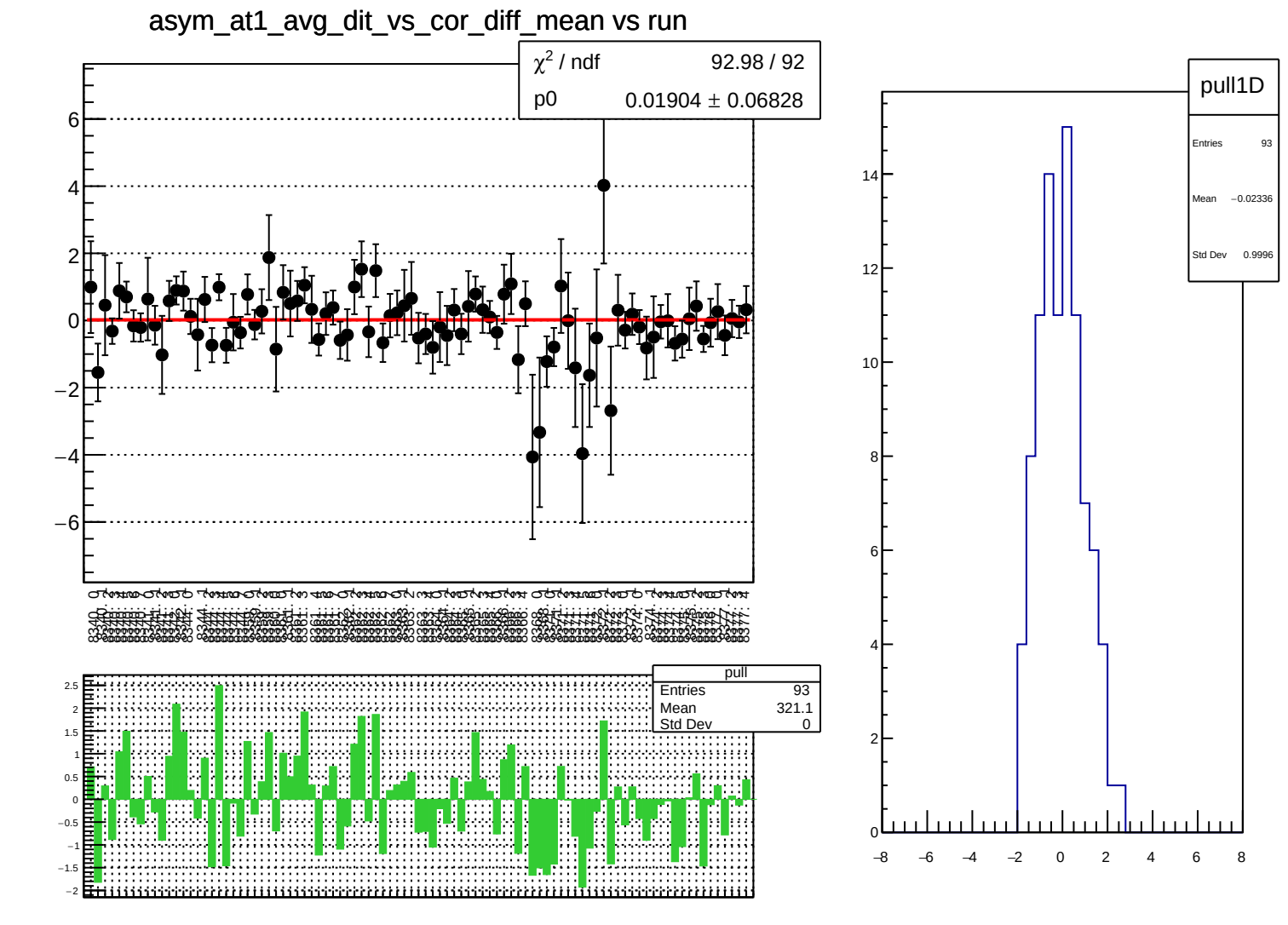

pull1D
Entries 93
Mean −0.009282
Std Dev 1.111

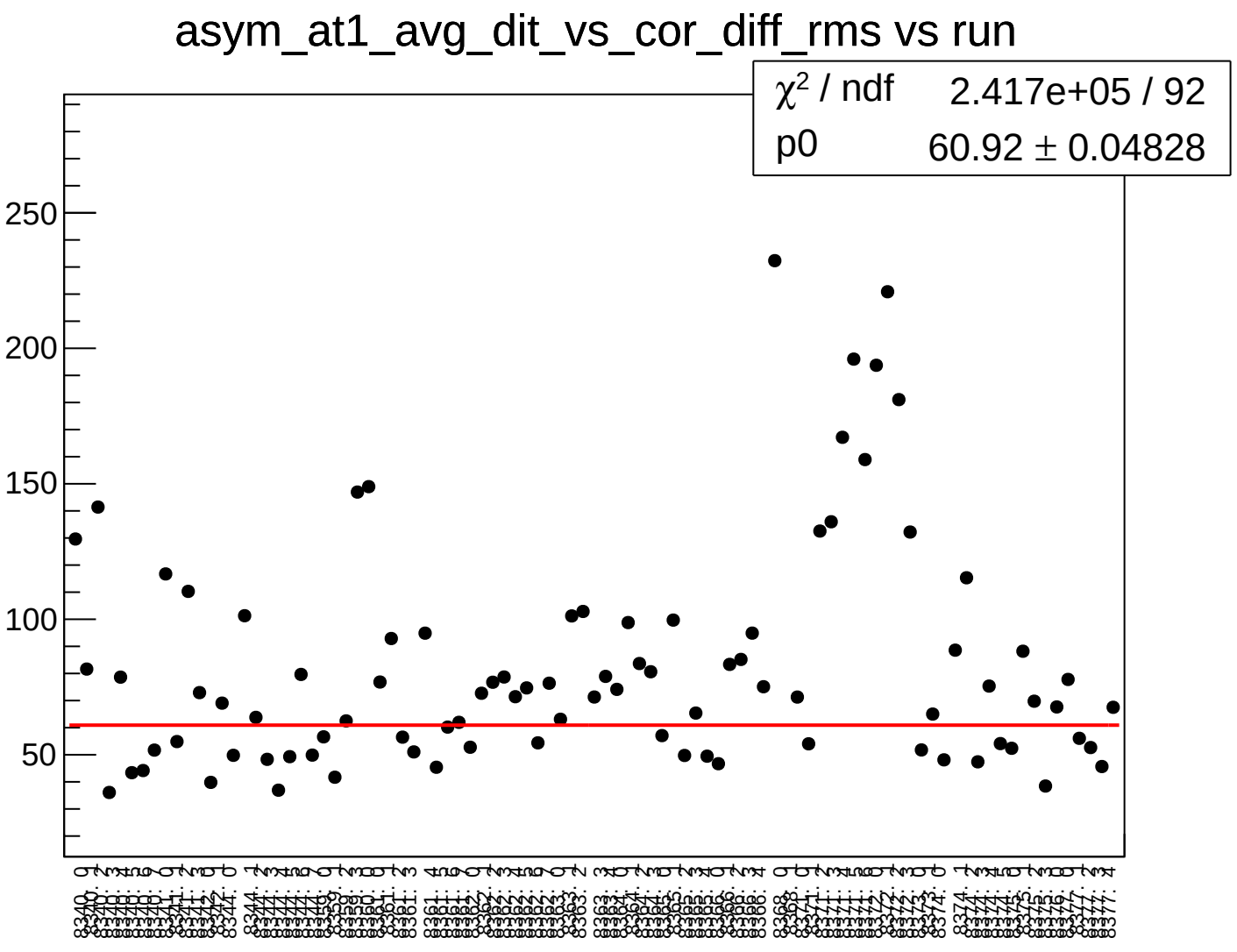

asym_at1_avg_rms vs run
χ² / ndf 2670 / 92
p0 2139 ± 1.581
2300
2250
2200
2150
2100
2050
2000
1950

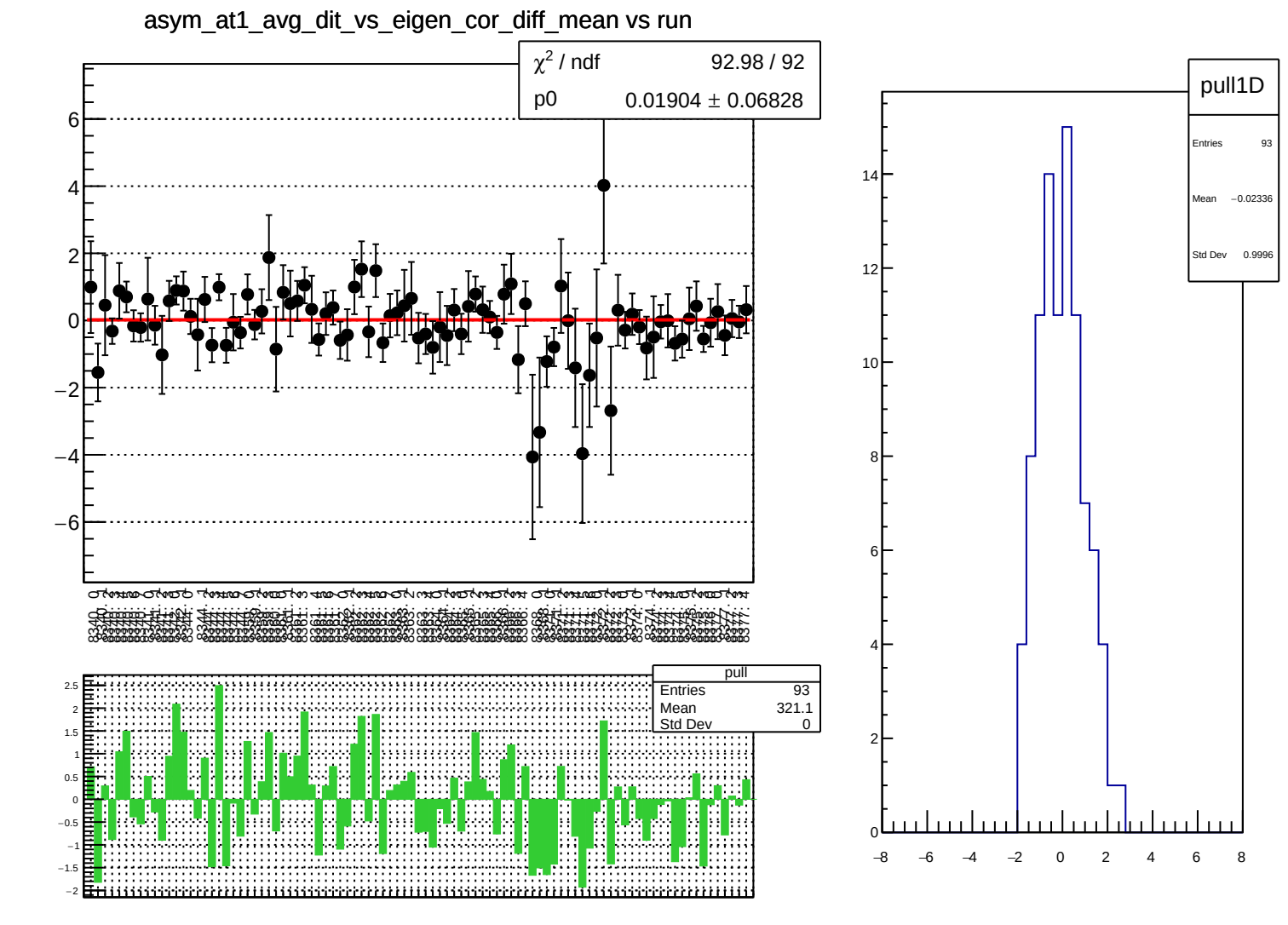

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.88 / 92
p0 −1.704e−14 ± 1.37e−13
pull
Entries 93
Mean −54.78
Std Dev 0

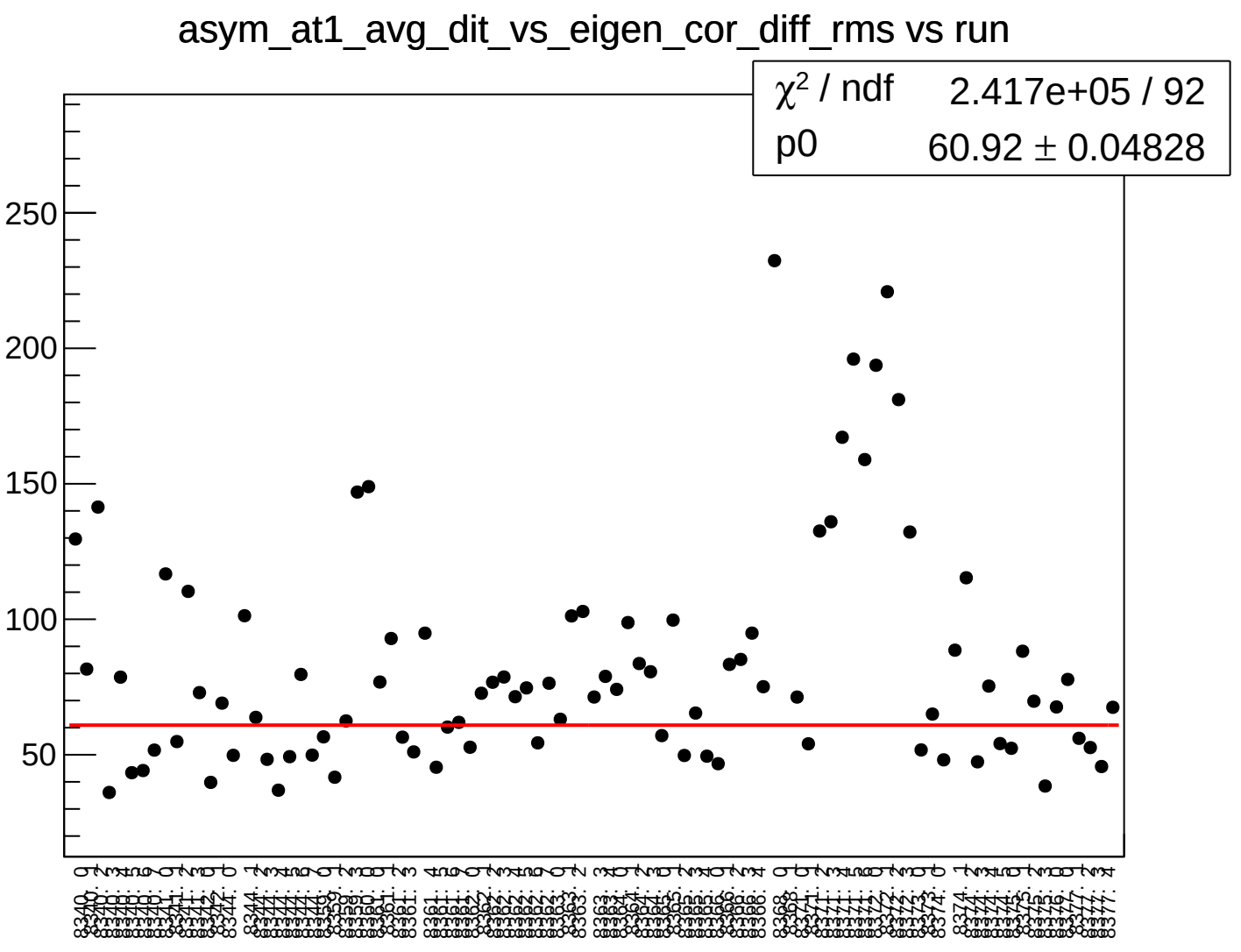

pull1D
Entries 93
Mean −0.02923
Std Dev 0.9661

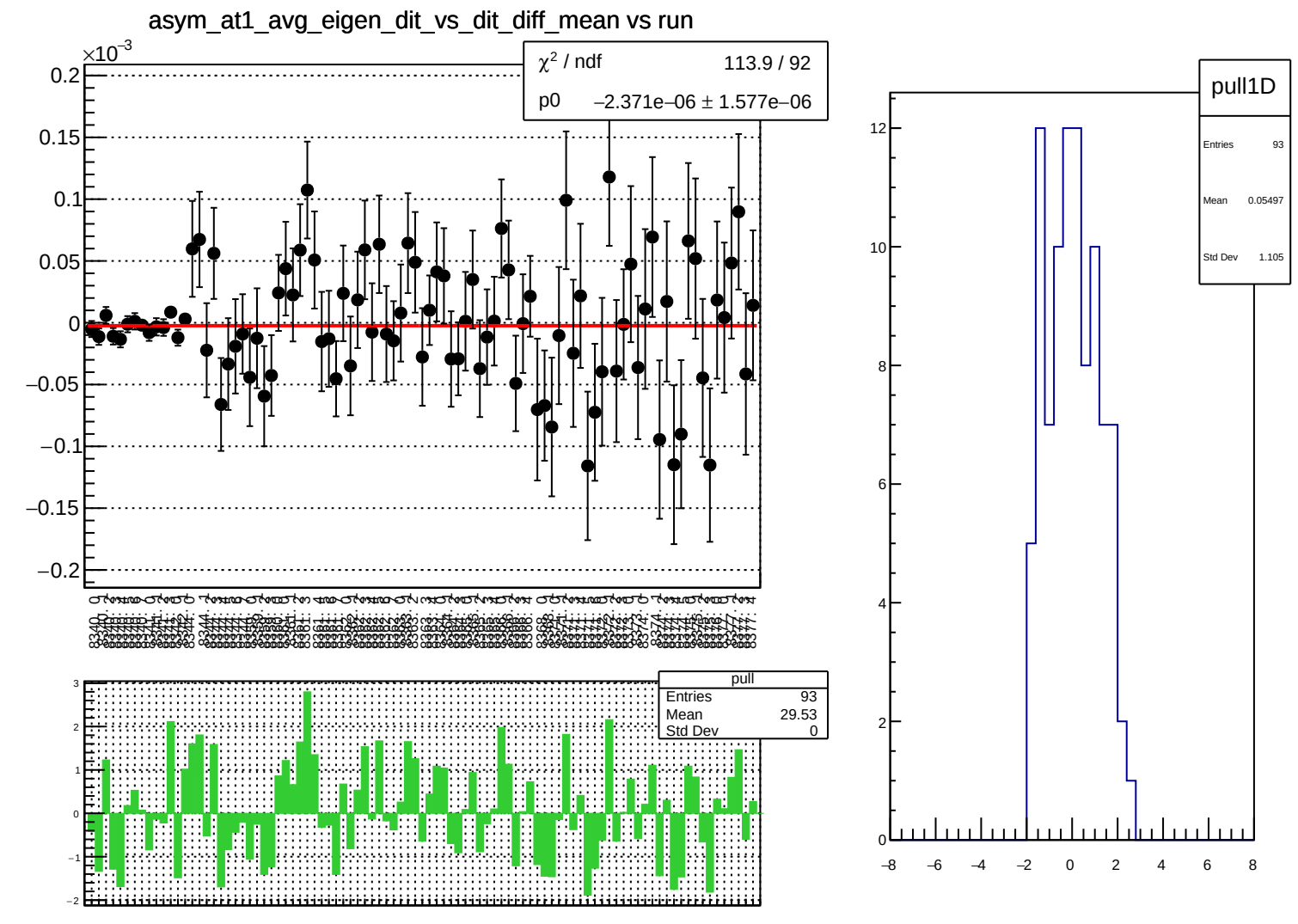

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 92
p0 8.286e−11 ± 9.687e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

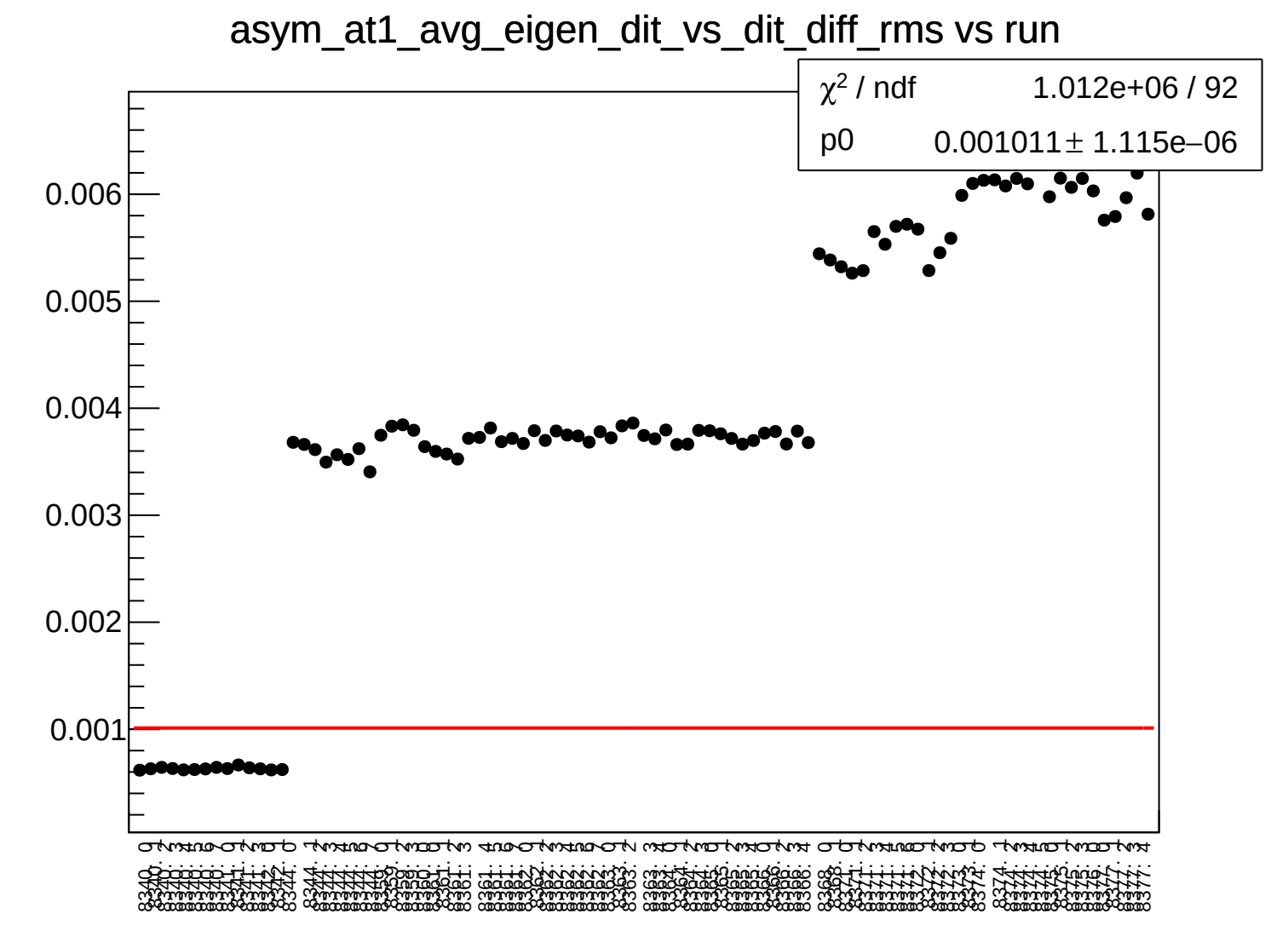

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 92
p0 0.01904 ± 0.06828
pull
Entries 93
Mean 321.1
Std Dev 0
pull1D
Entries 93
Mean −0.02336
Std Dev 0.9996

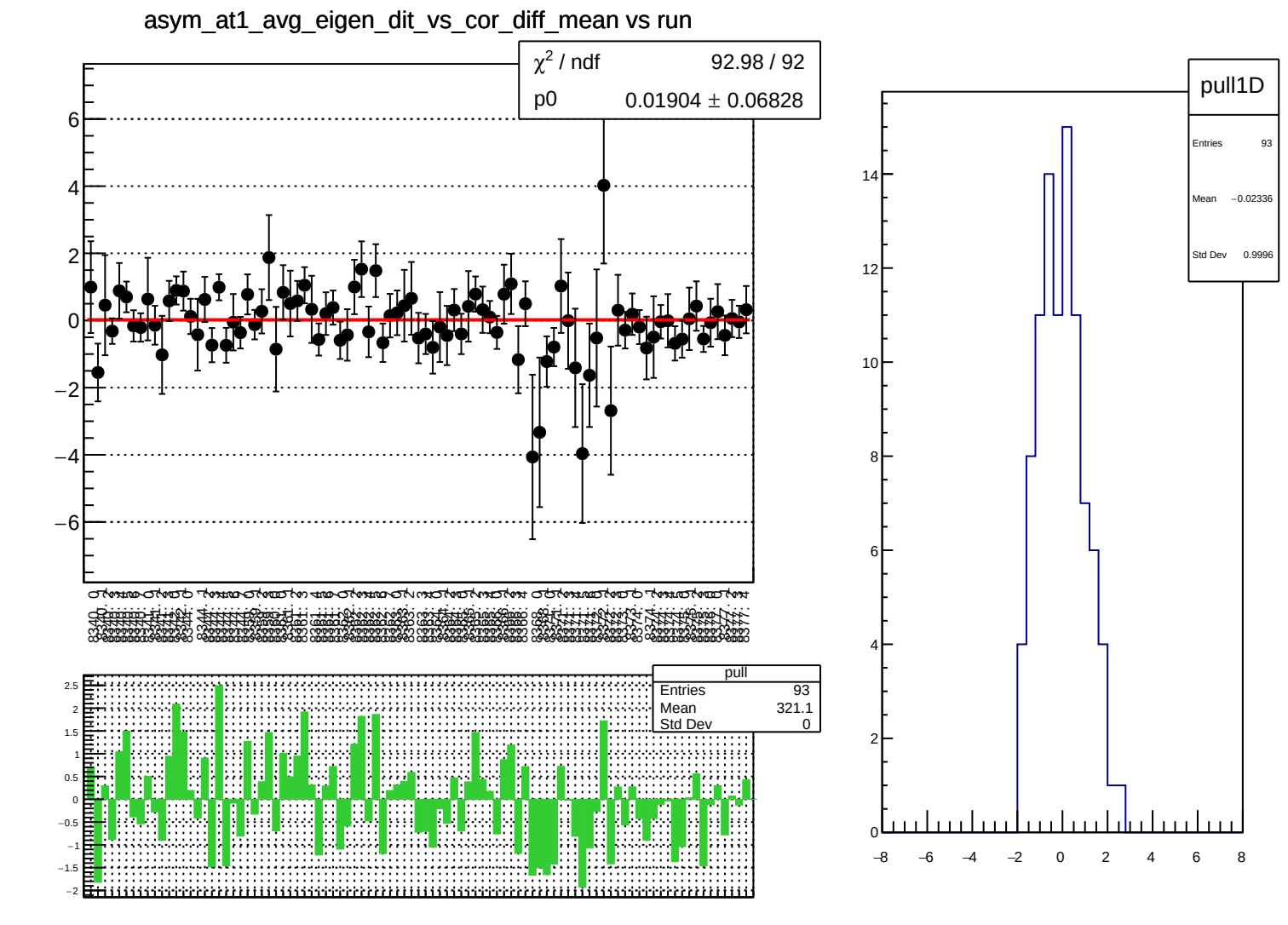

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.417e+05 / 92
p0 60.92 ± 0.04828
250
200
150
100
50

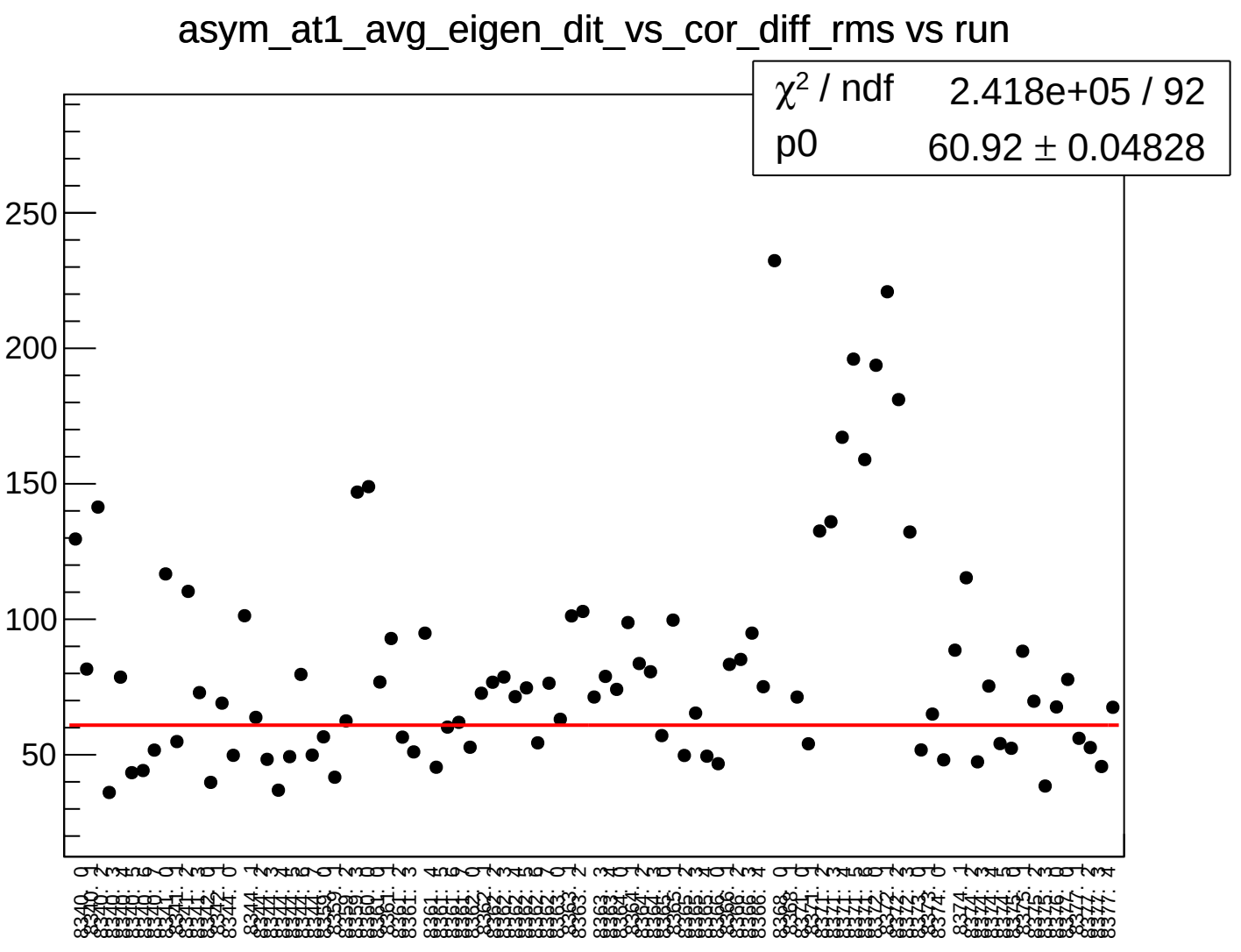

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 92
p0 0.01904 ± 0.06828
pull
Entries 93
Mean 321.1
Std Dev 0
pull1D
Entries 93
Mean −0.02336
Std Dev 0.9996

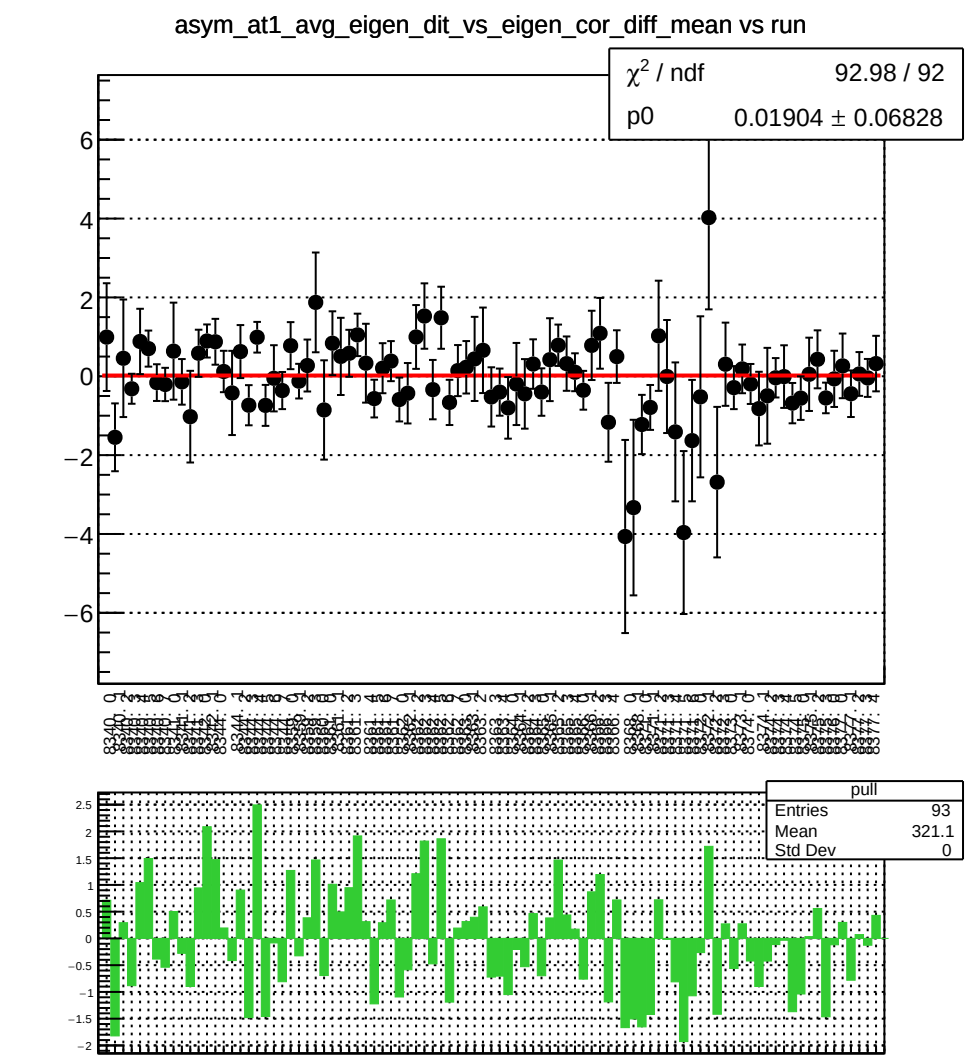

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.417e+05 / 92
p0 60.92 ± 0.04828
250
200
150
100
50

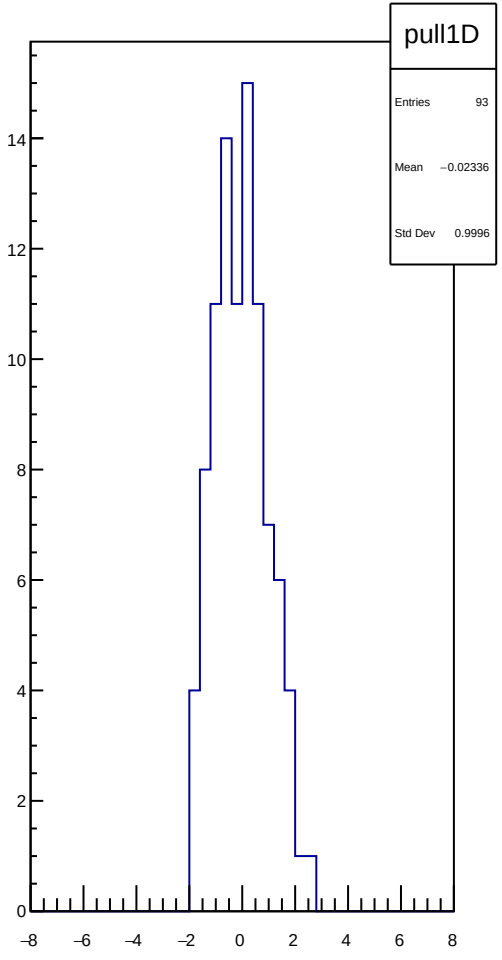

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.9 / 92
p0 −2.371e−06 ± 1.577e−06
pull
Entries 93
Mean 29.53
Std Dev 0
pull1D
Entries 93
Mean 0.05497
Std Dev 1.105

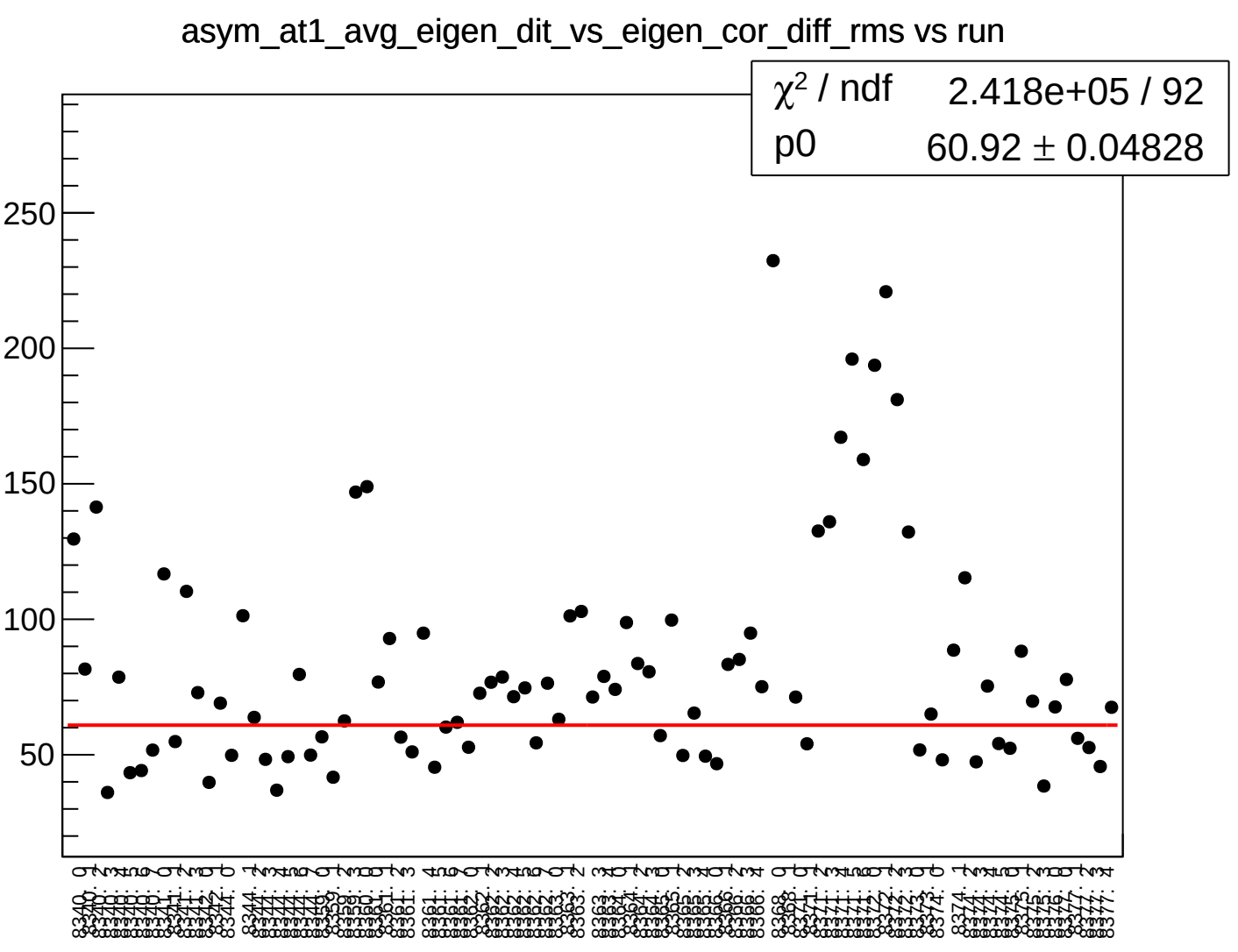

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.012e+06 / 92
p0 0.001011 ± 1.115e−06
0.006
0.005
0.004
0.003
0.002
0.001

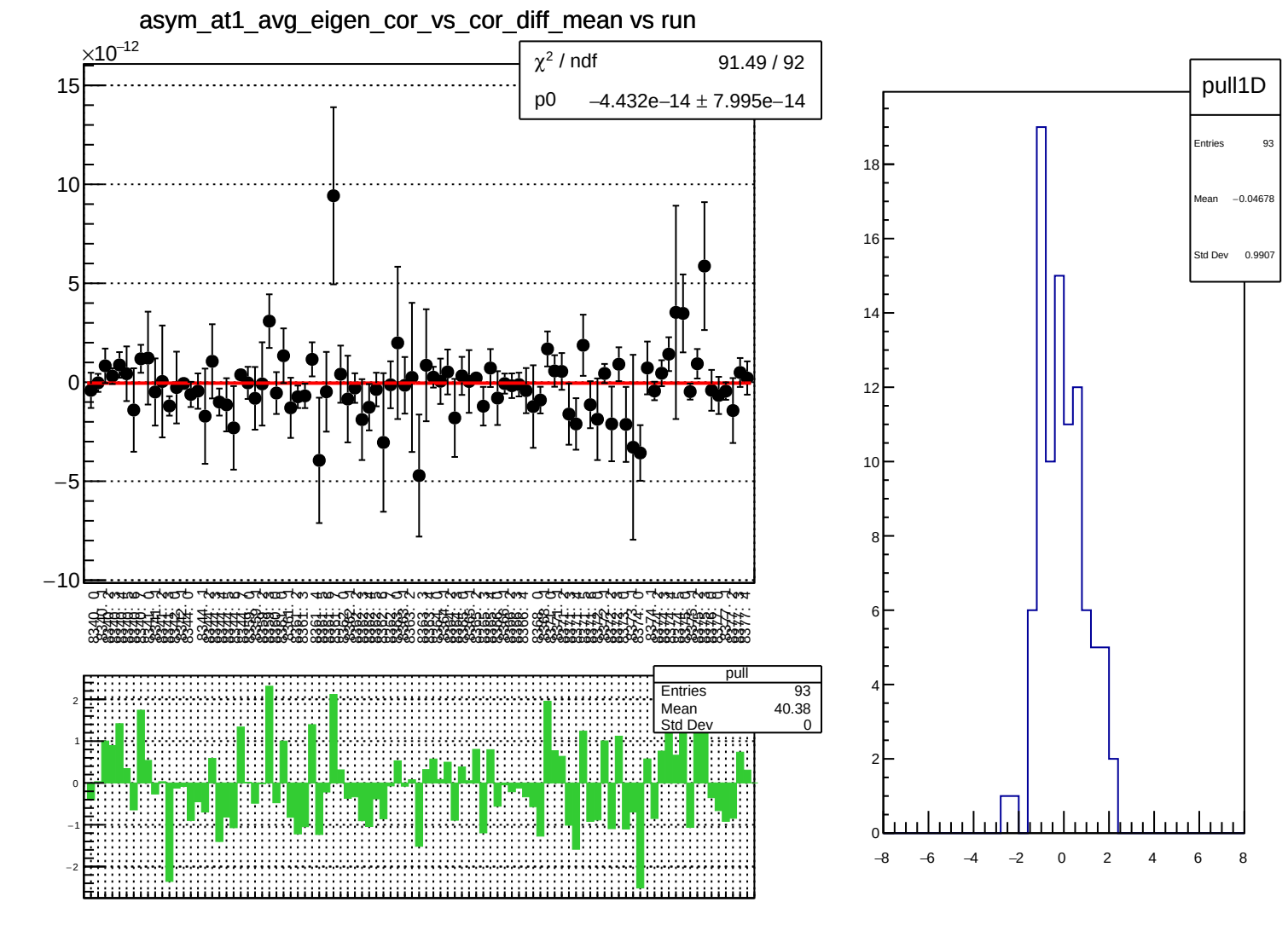

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 92
p0 0.01904 ± 0.06828
pull
Entries 93
Mean 321.1
Std Dev 0
pull1D
Entries 93
Mean −0.02336
Std Dev 0.9996

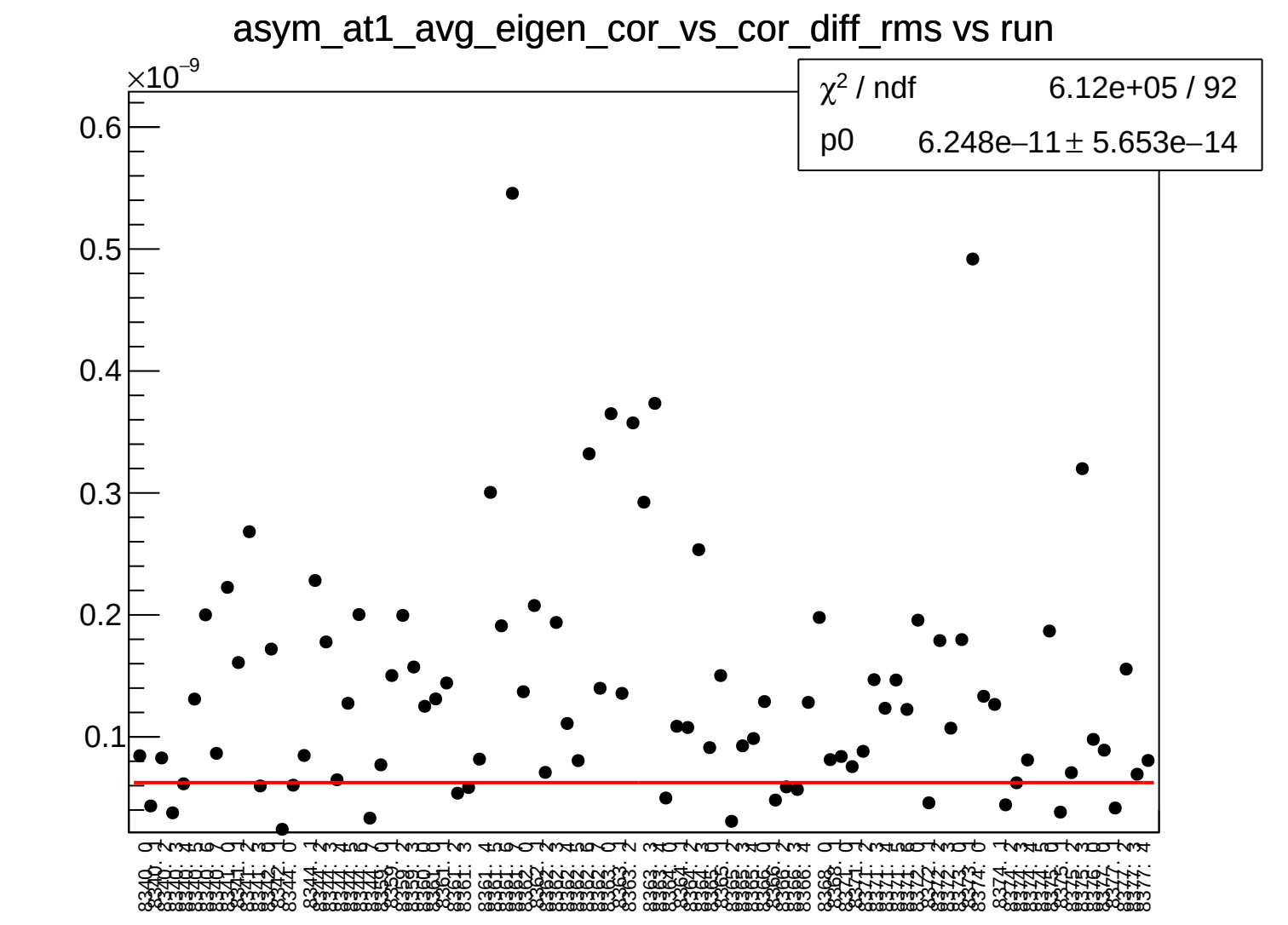

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.418e+05 / 92
p0 60.92 ± 0.04828
250
200
150
100
50

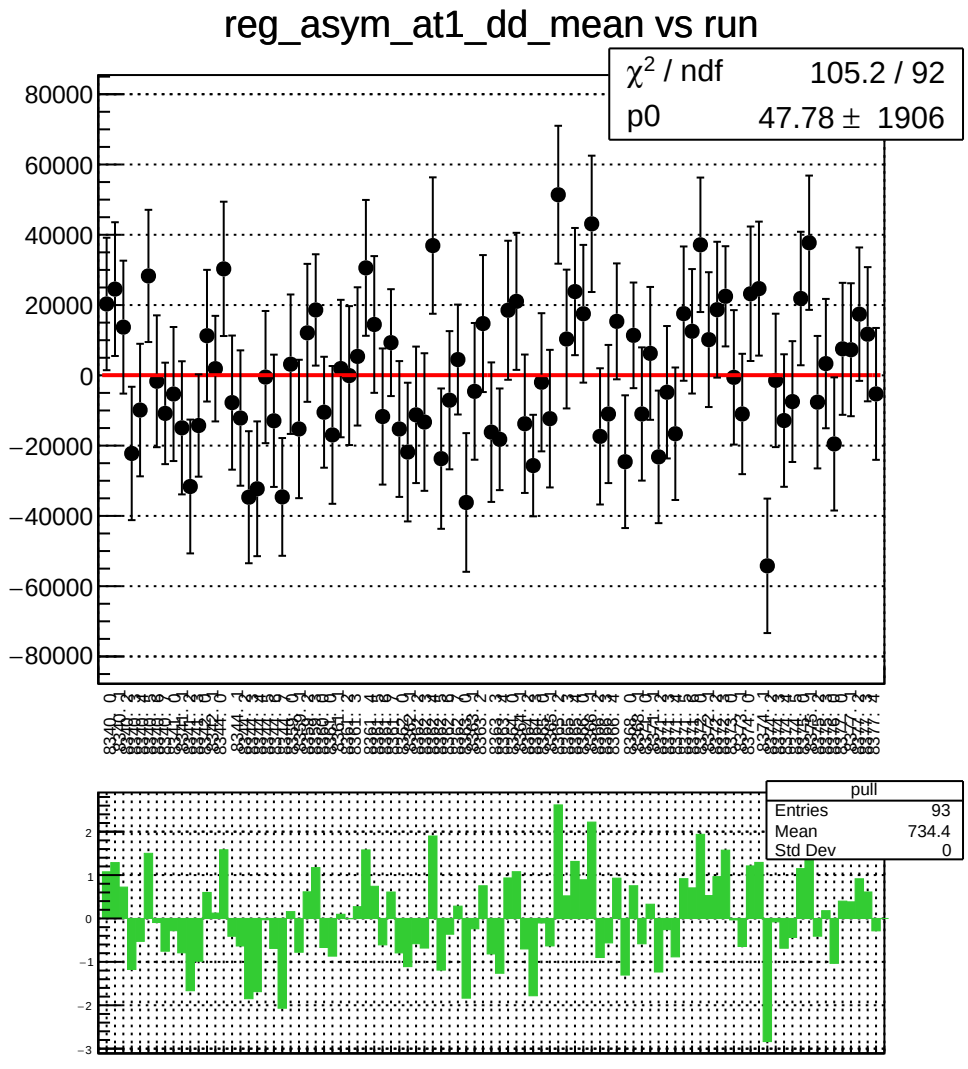

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.98 / 92
p0 0.01904 ± 0.06828
pull
Entries 93
Mean 321.1
Std Dev 0

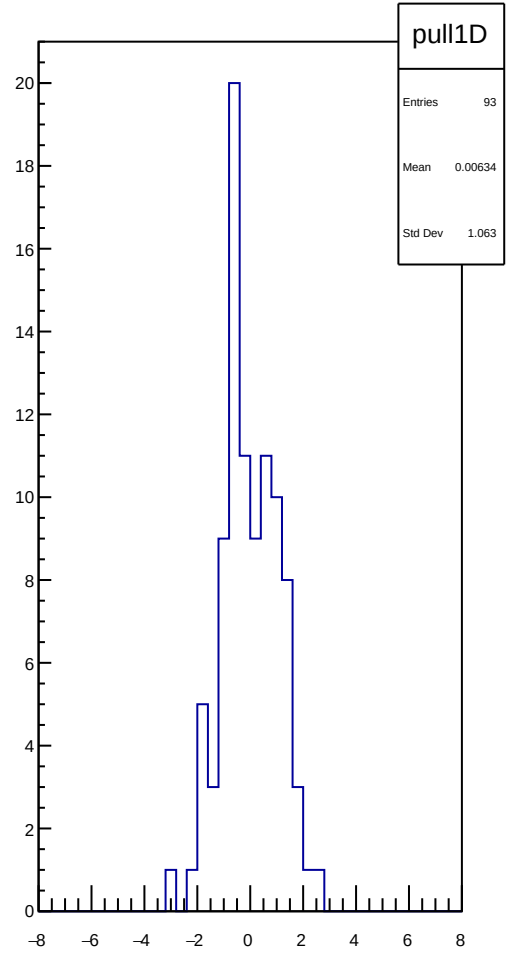

pull1D
Entries 93
Mean −0.02336
Std Dev 0.9996

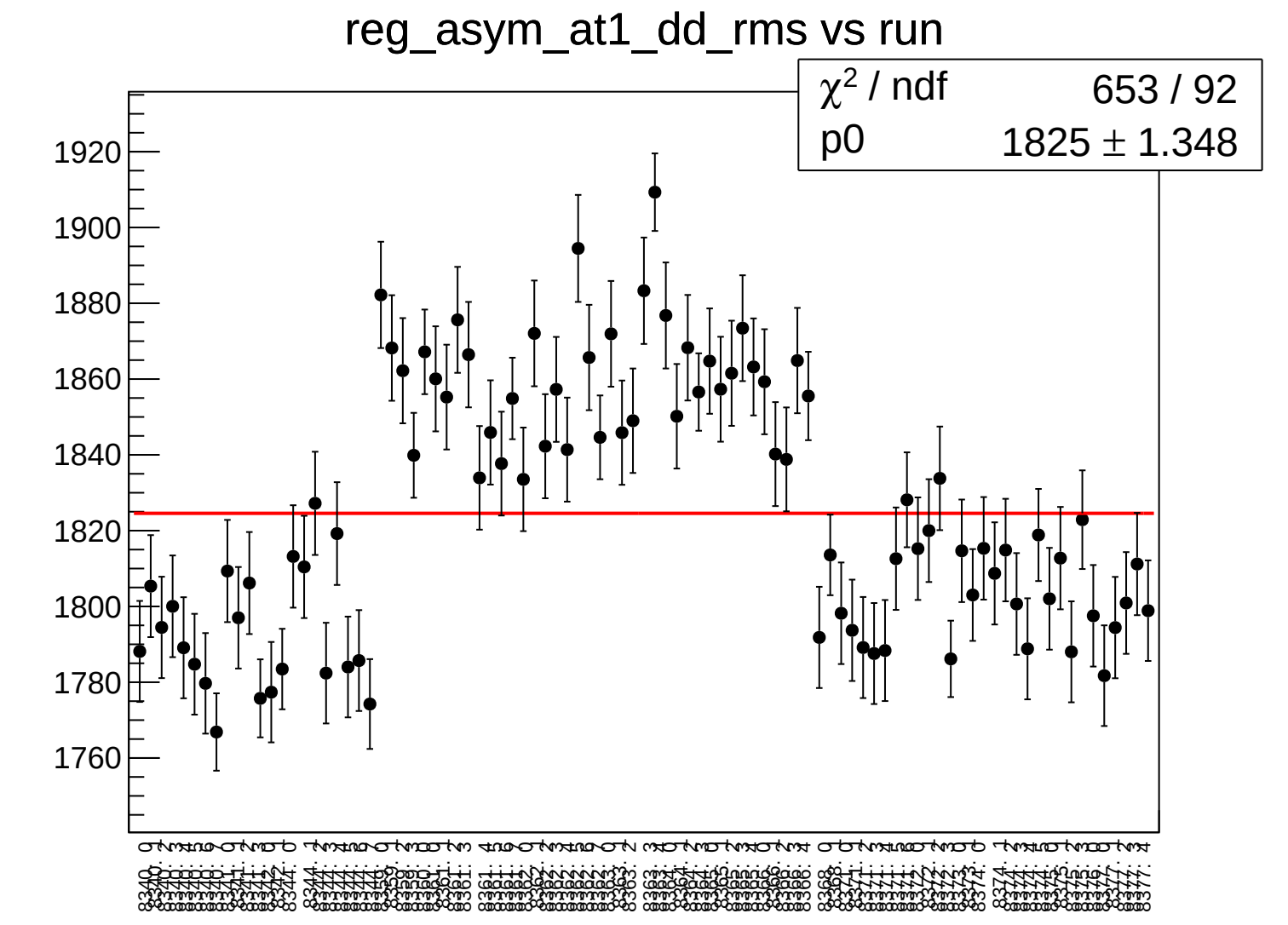

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.418e+05 / 92
p0 60.92 ± 0.04828
250
200
150
100
50

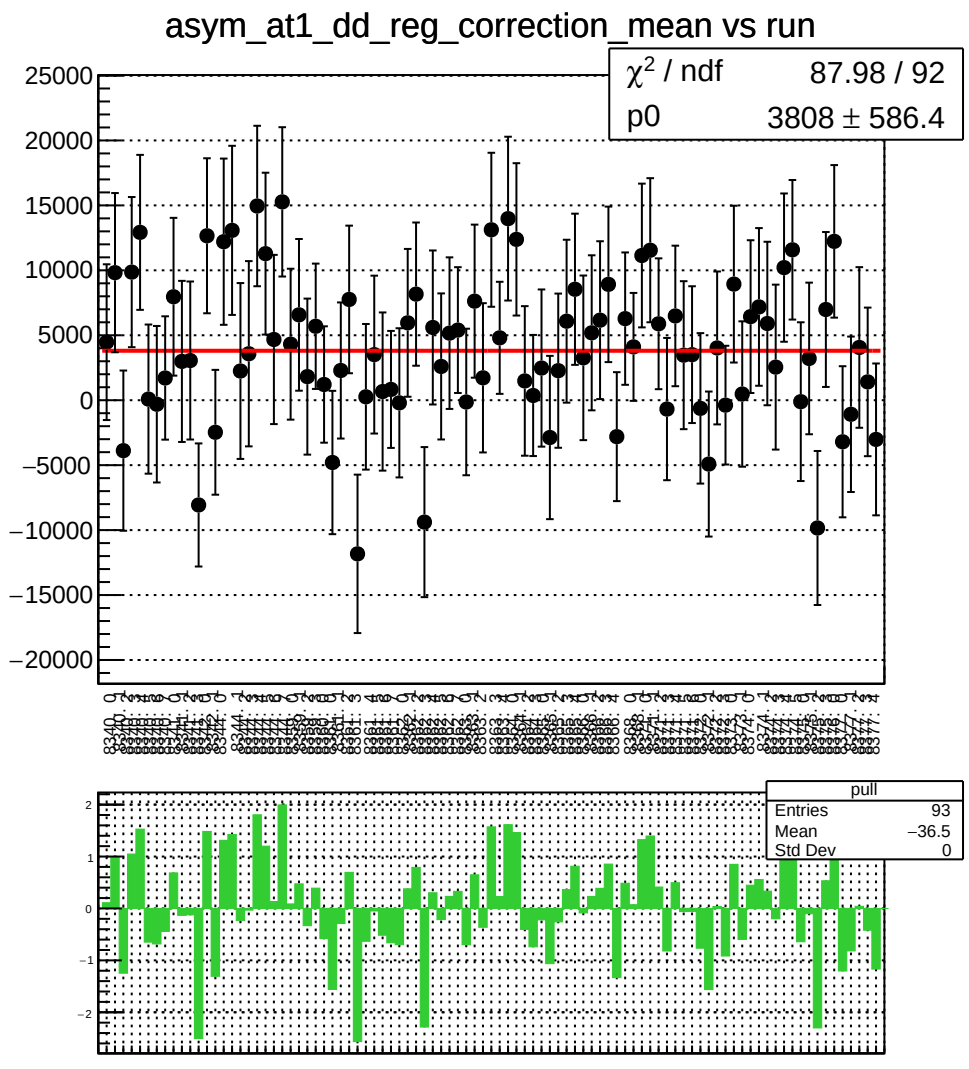

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.49 / 92
p0 −4.432e−14 ± 7.995e−14
pull
Entries 93
Mean 40.38
Std Dev 0
pull1D
Entries 93
Mean −0.04678
Std Dev 0.9907

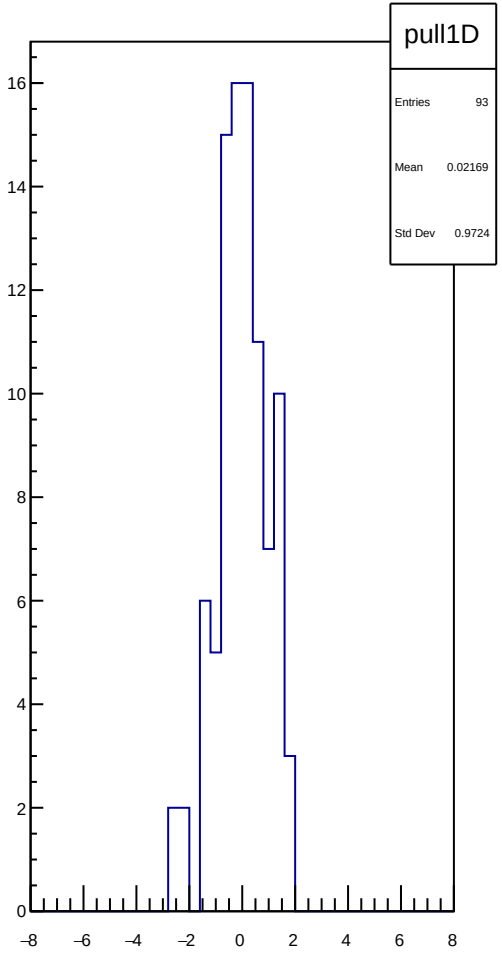

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.12e+05 / 92
p0 6.248e−11 ± 5.653e−14
0.6
0.5
0.4
0.3
0.2
0.1

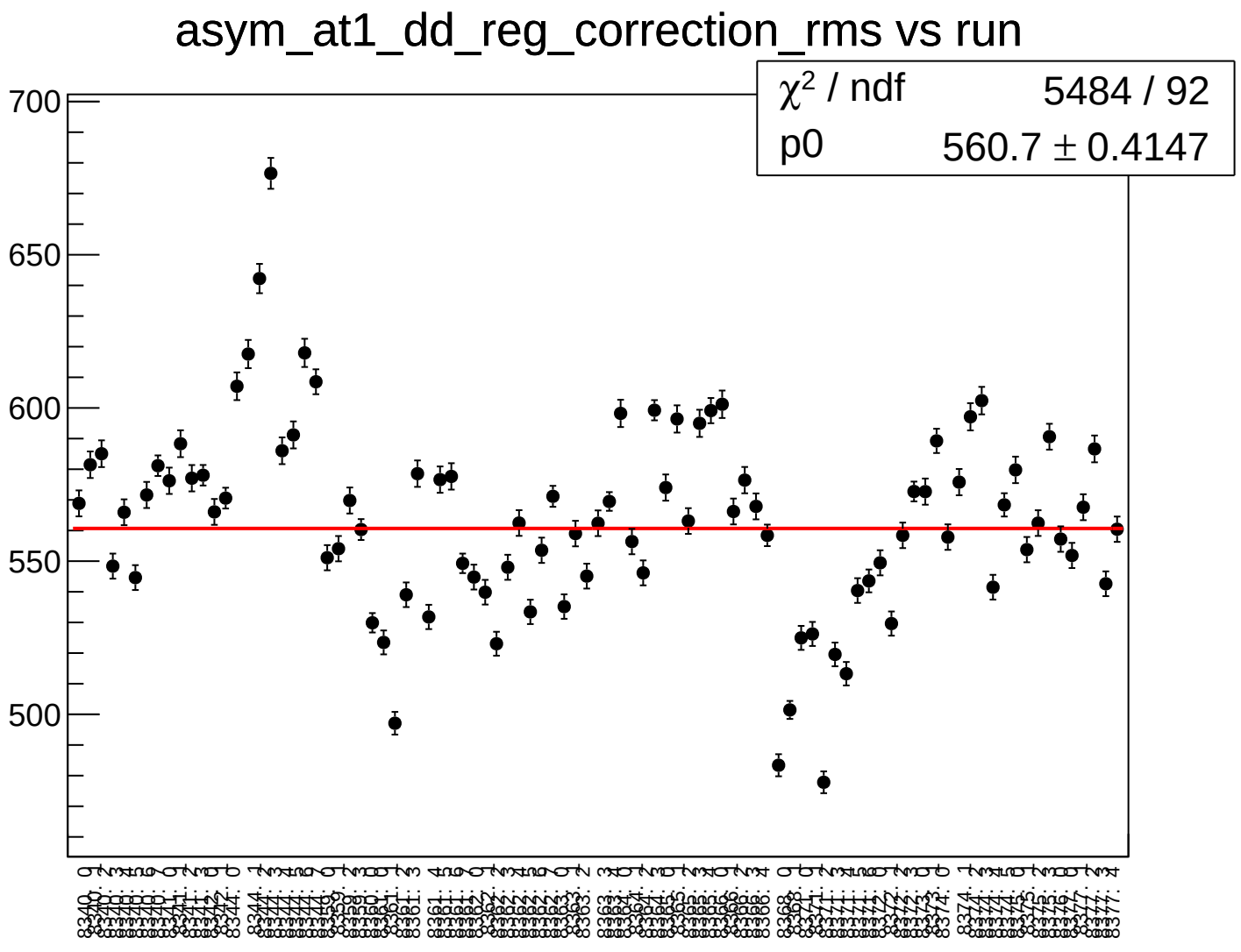

reg_asym_at1_dd_mean vs run
χ² / ndf 105.2 / 92
p0 47.78 ± 1906
pull
Entries 93
Mean 734.4
Std Dev 0

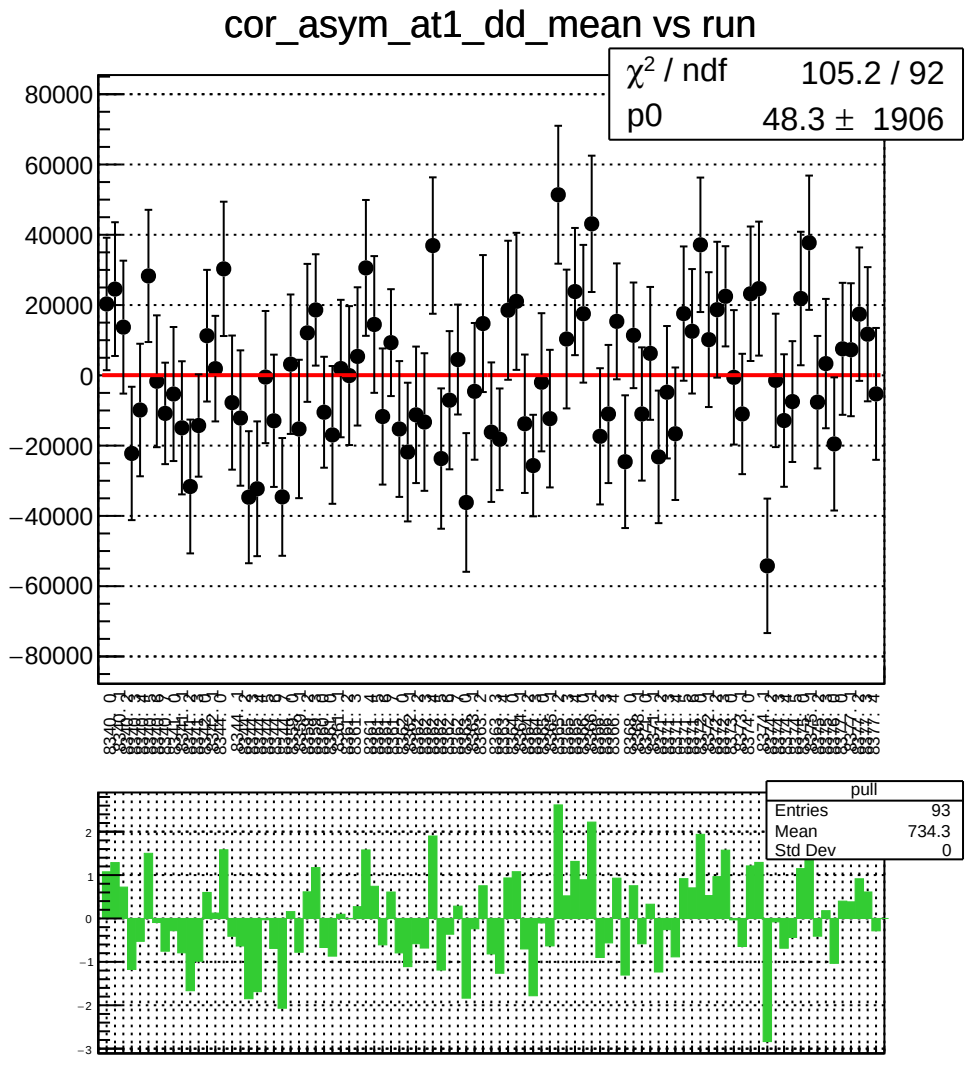

pull1D
Entries 93
Mean 0.00634
Std Dev 1.063

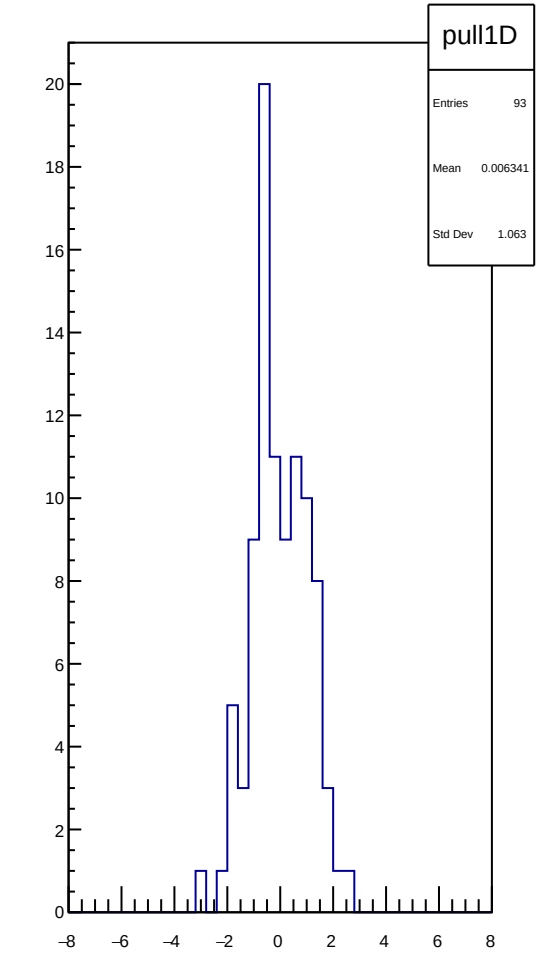

reg_asym_at1_dd_rms vs run
χ² / ndf 653 / 92
p0 1825 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760

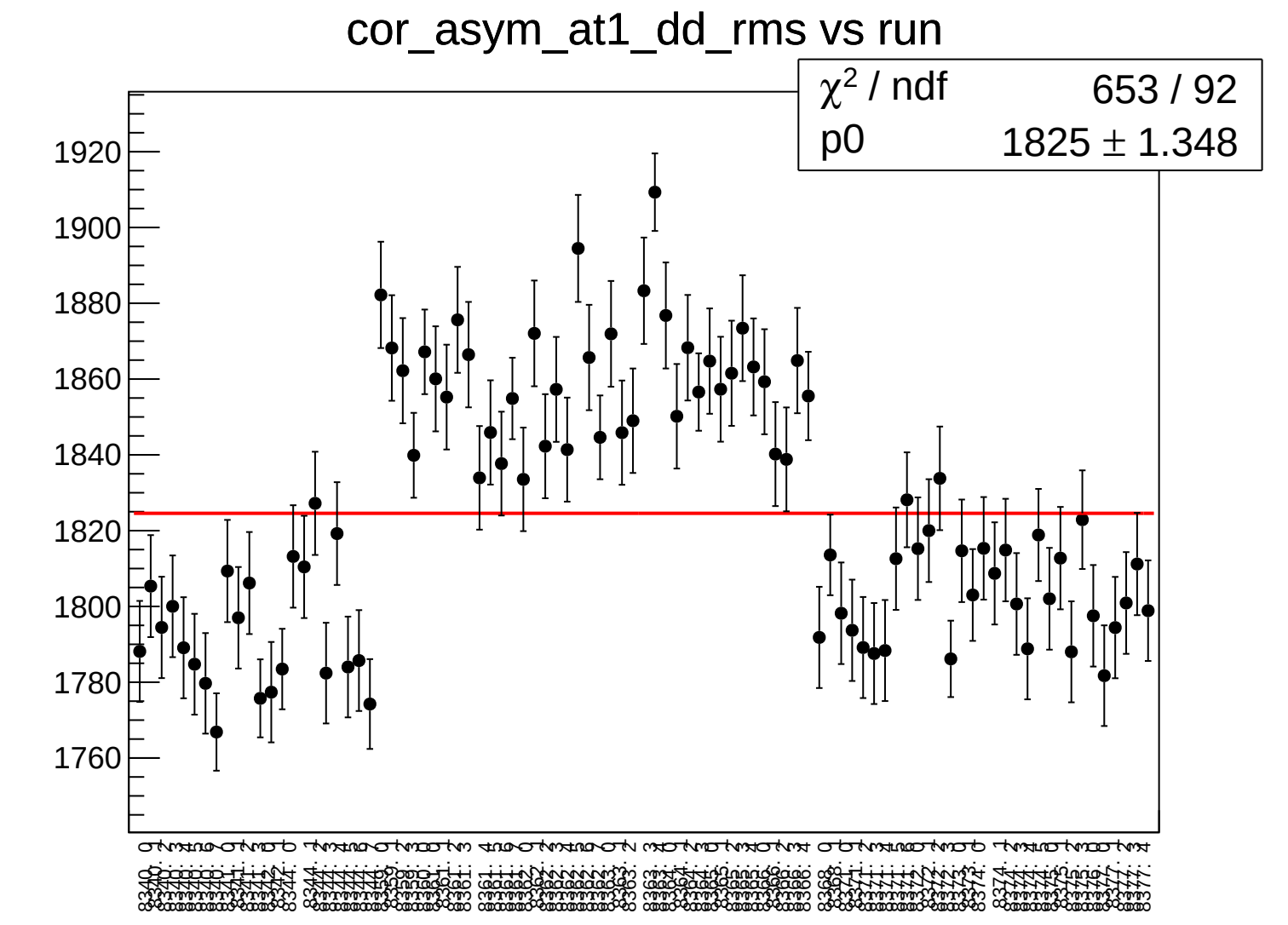

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 87.98 / 92
p0 3808 ± 586.4
pull
Entries 93
Mean −36.5
Std Dev 0

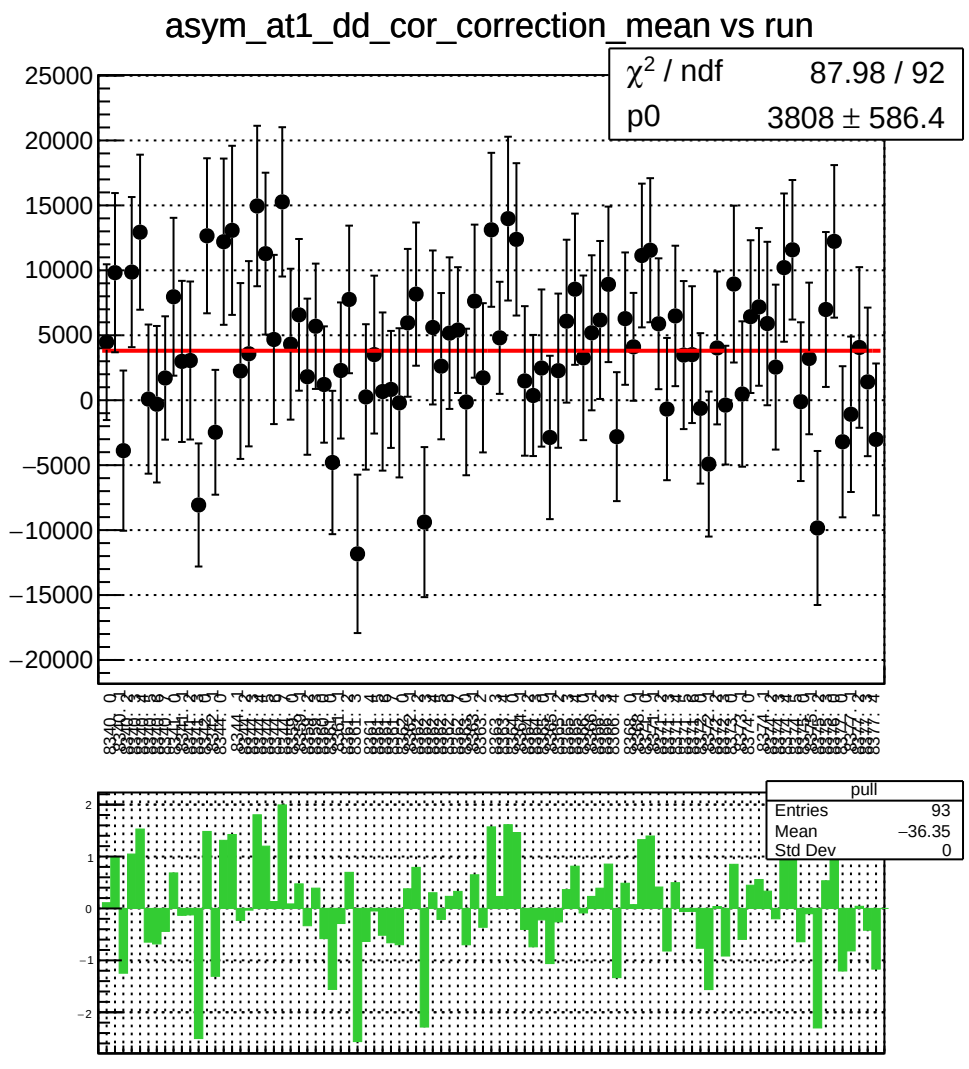

pull1D
Entries 93
Mean 0.02169
Std Dev 0.9724

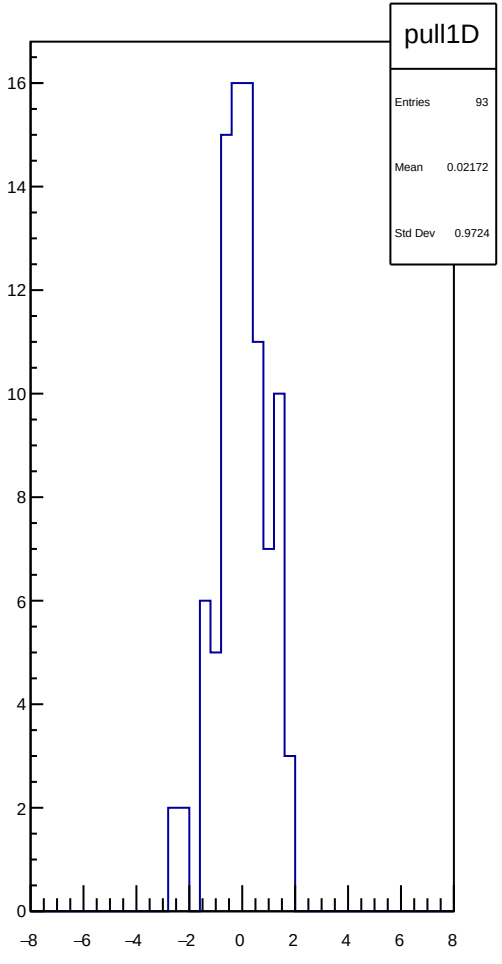

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 5484 / 92
p0 560.7 ± 0.4147
700
650
600
550
500

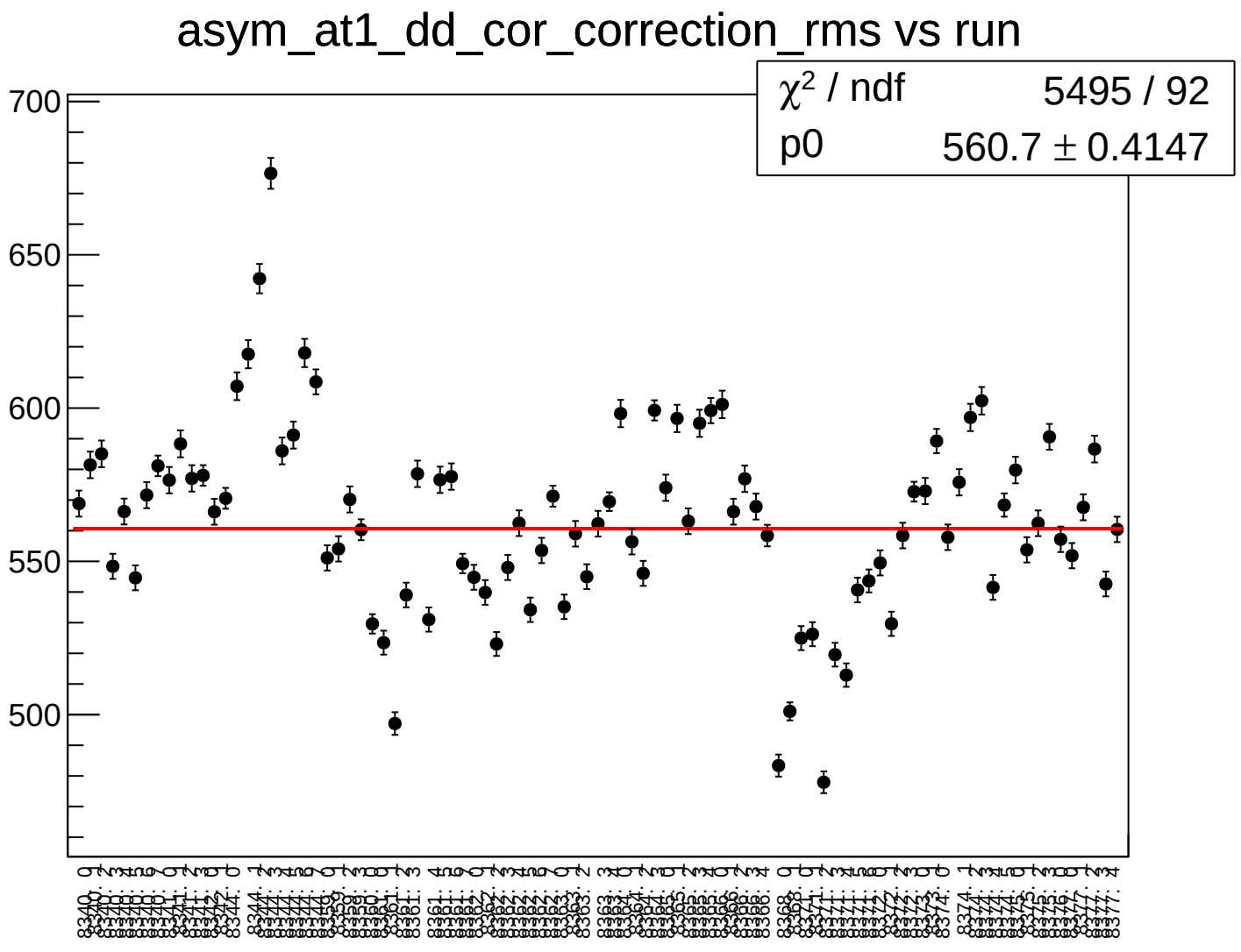

cor_asym_at1_dd_mean vs run
χ² / ndf 105.2 / 92
p0 48.3 ± 1906
pull
Entries 93
Mean 734.3
Std Dev 0

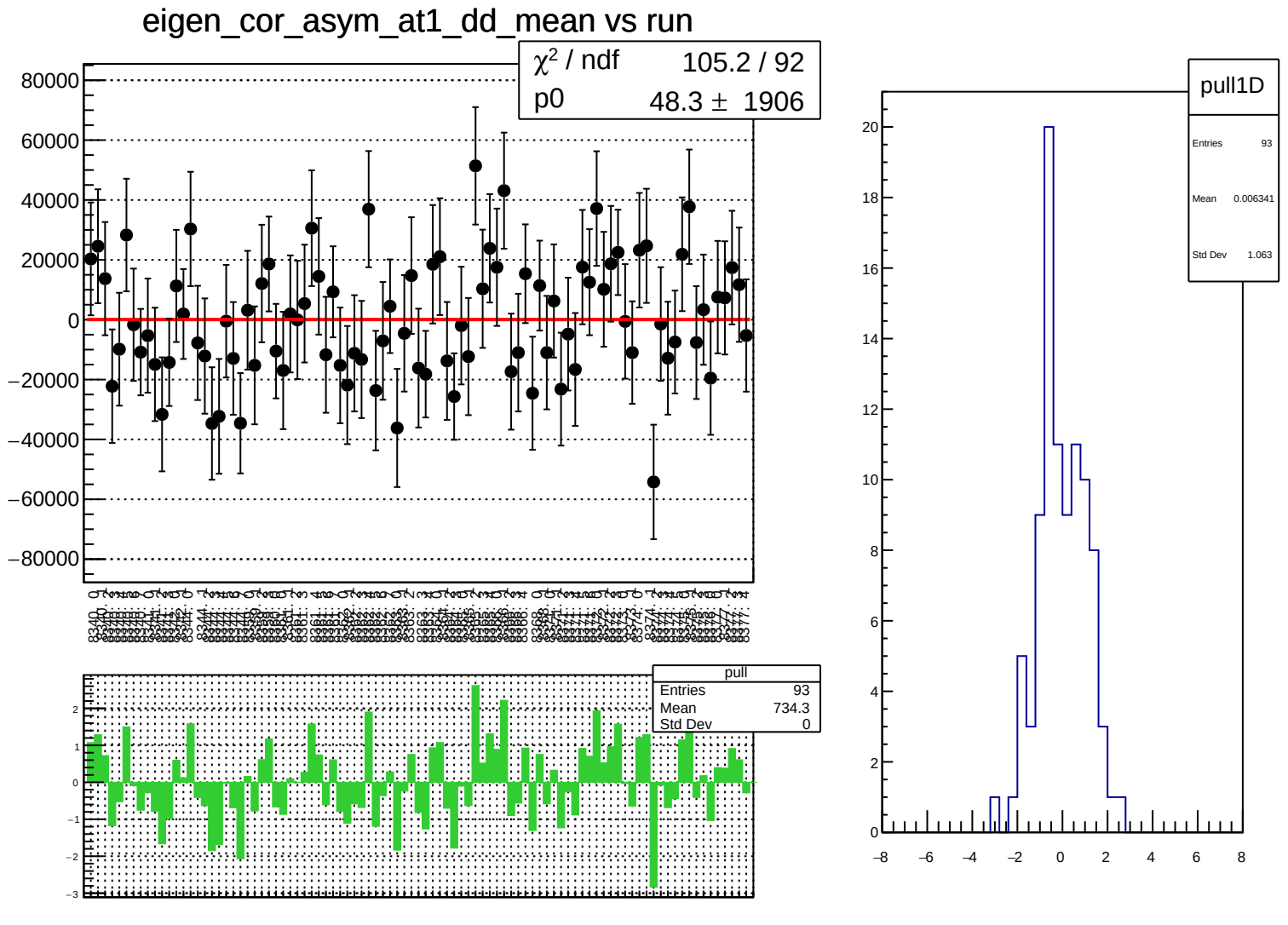

pull1D
Entries 93
Mean 0.006341
Std Dev 1.063

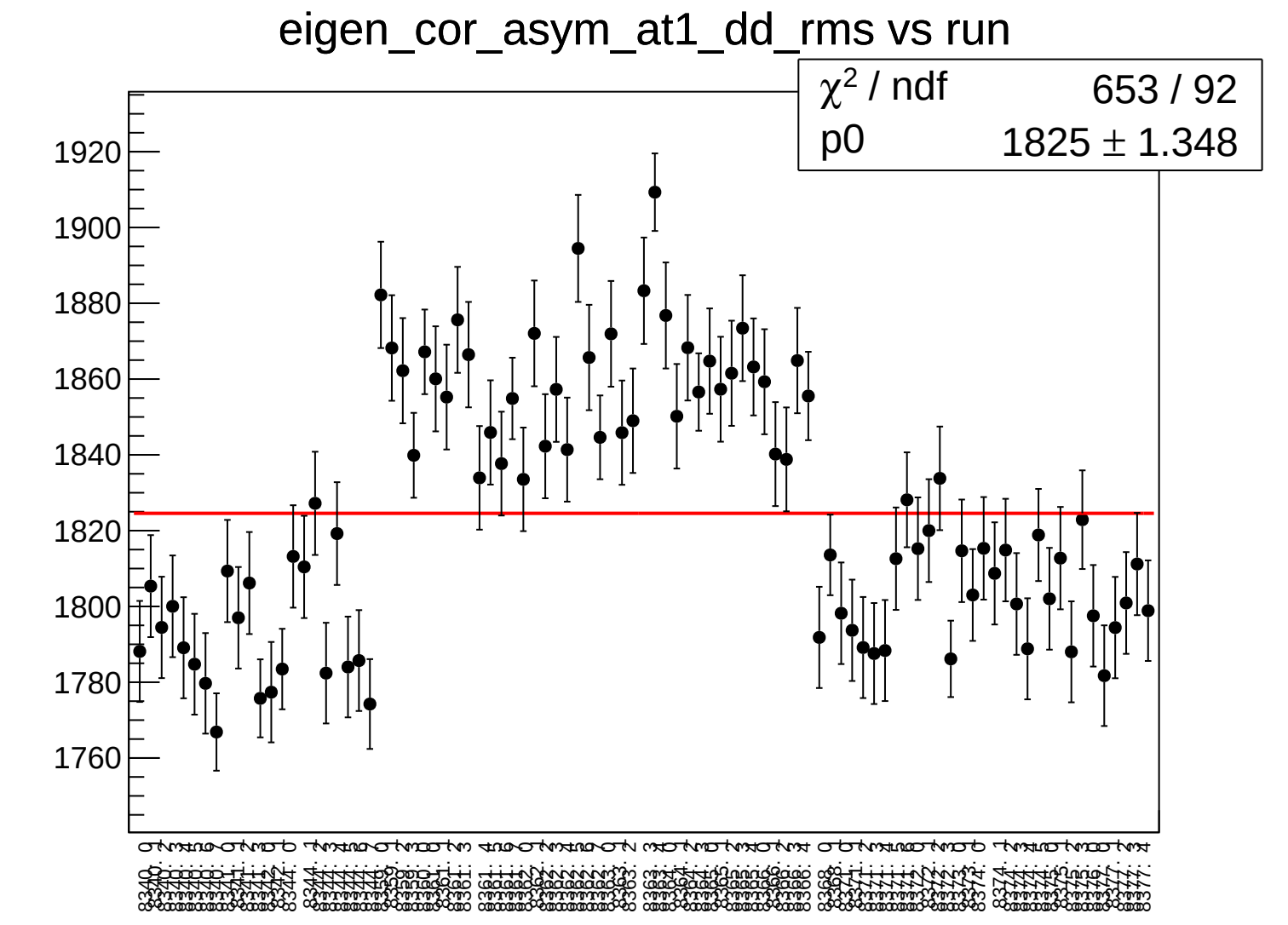

cor_asym_at1_dd_rms vs run
χ^2 / ndf 653 / 92
p0 1825 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760

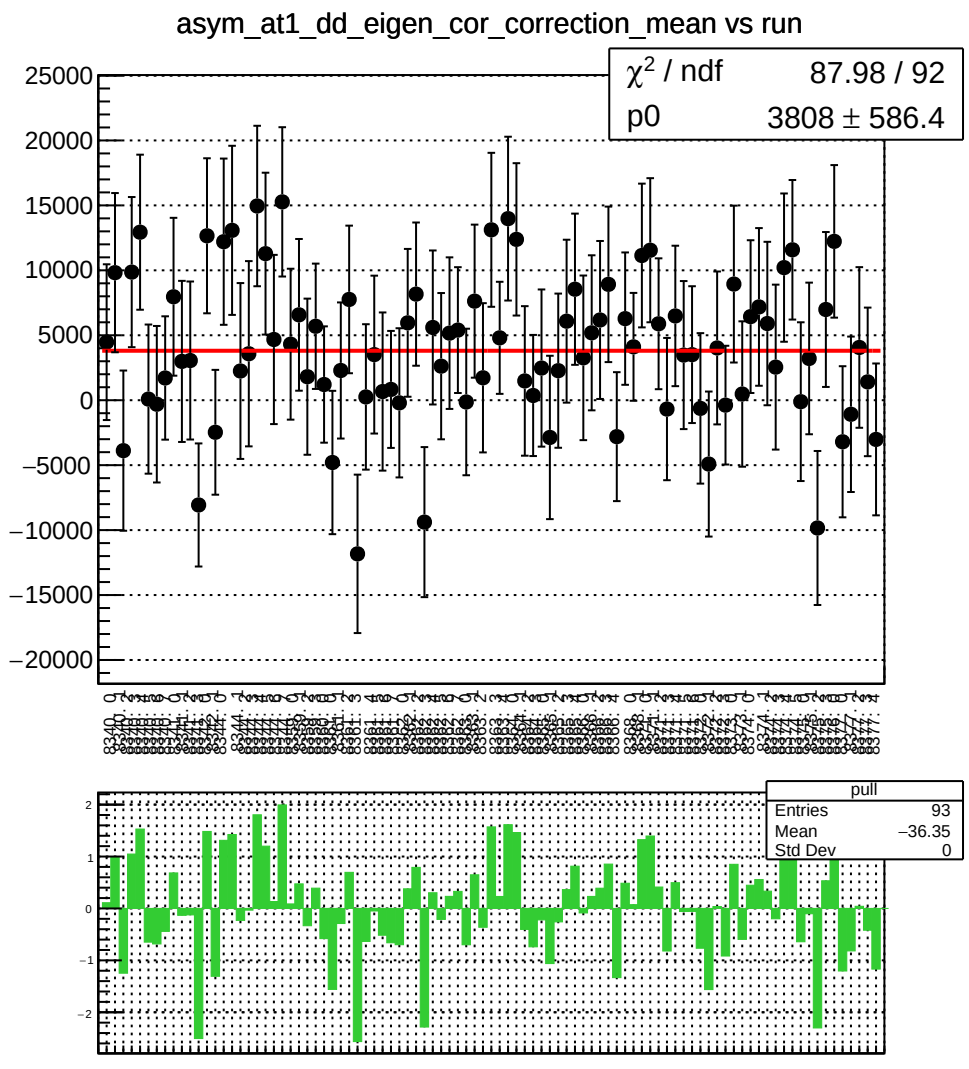

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 87.98 / 92
p0 3808 ± 586.4
pull
Entries 93
Mean −36.35
Std Dev 0

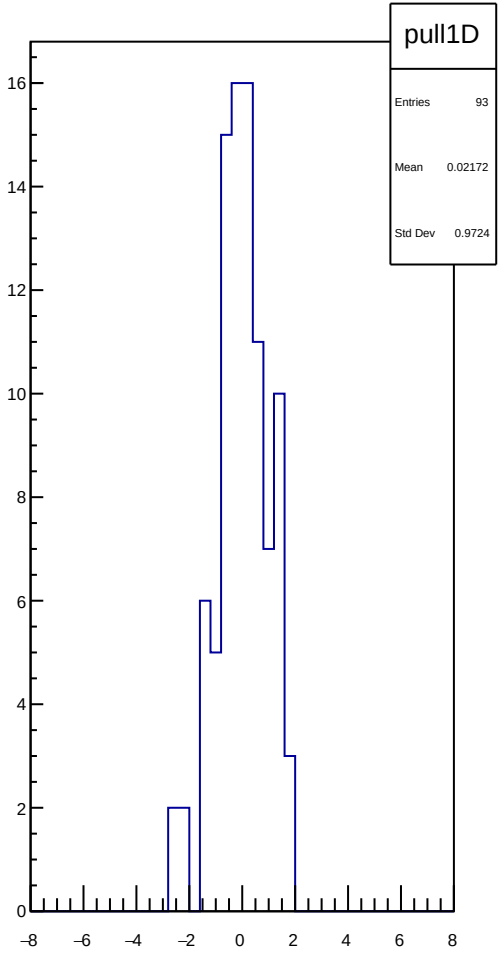

pull1D
Entries 93
Mean 0.02172
Std Dev 0.9724

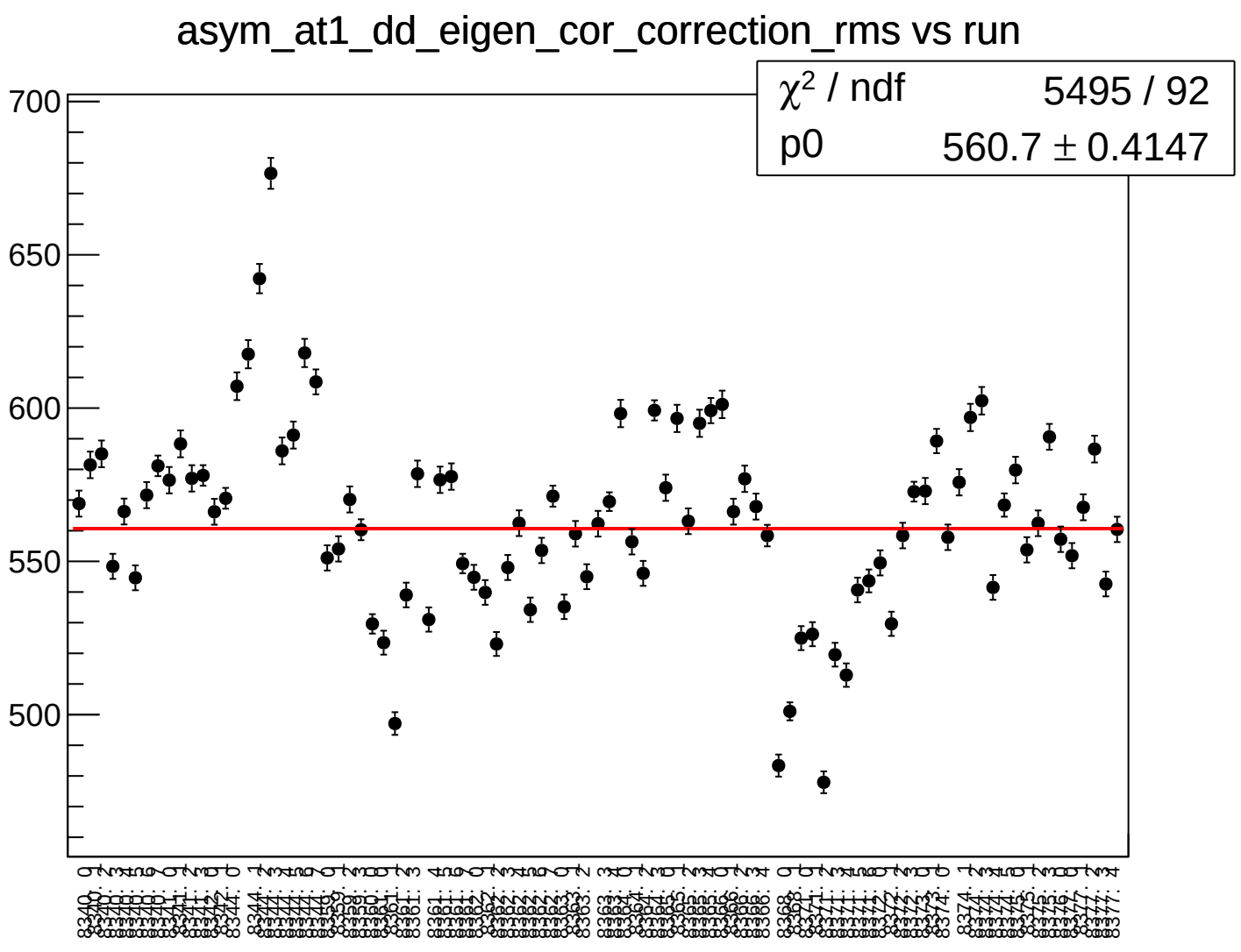

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 5495 / 92
p0 560.7 ± 0.4147
700
650
600
550
500

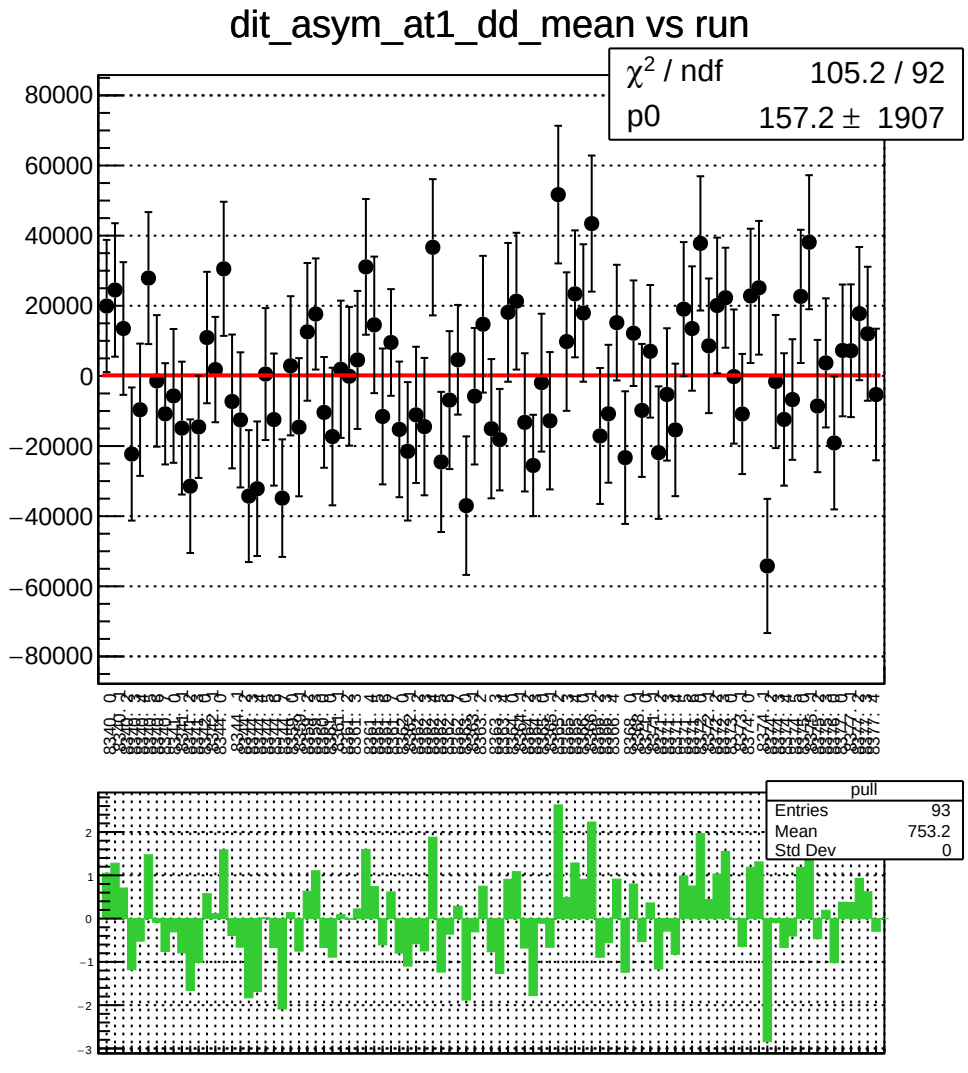

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 105.2 / 92
p0 48.3 ± 1906
pull
Entries 93
Mean 734.3
Std Dev 0
pull1D
Entries 93
Mean 0.006341
Std Dev 1.063

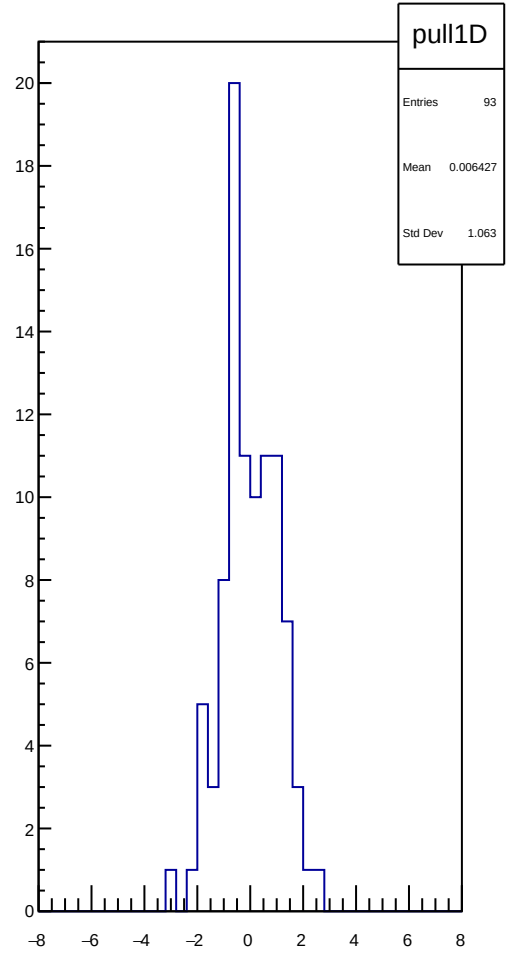

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 653 / 92
p0 1825 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760

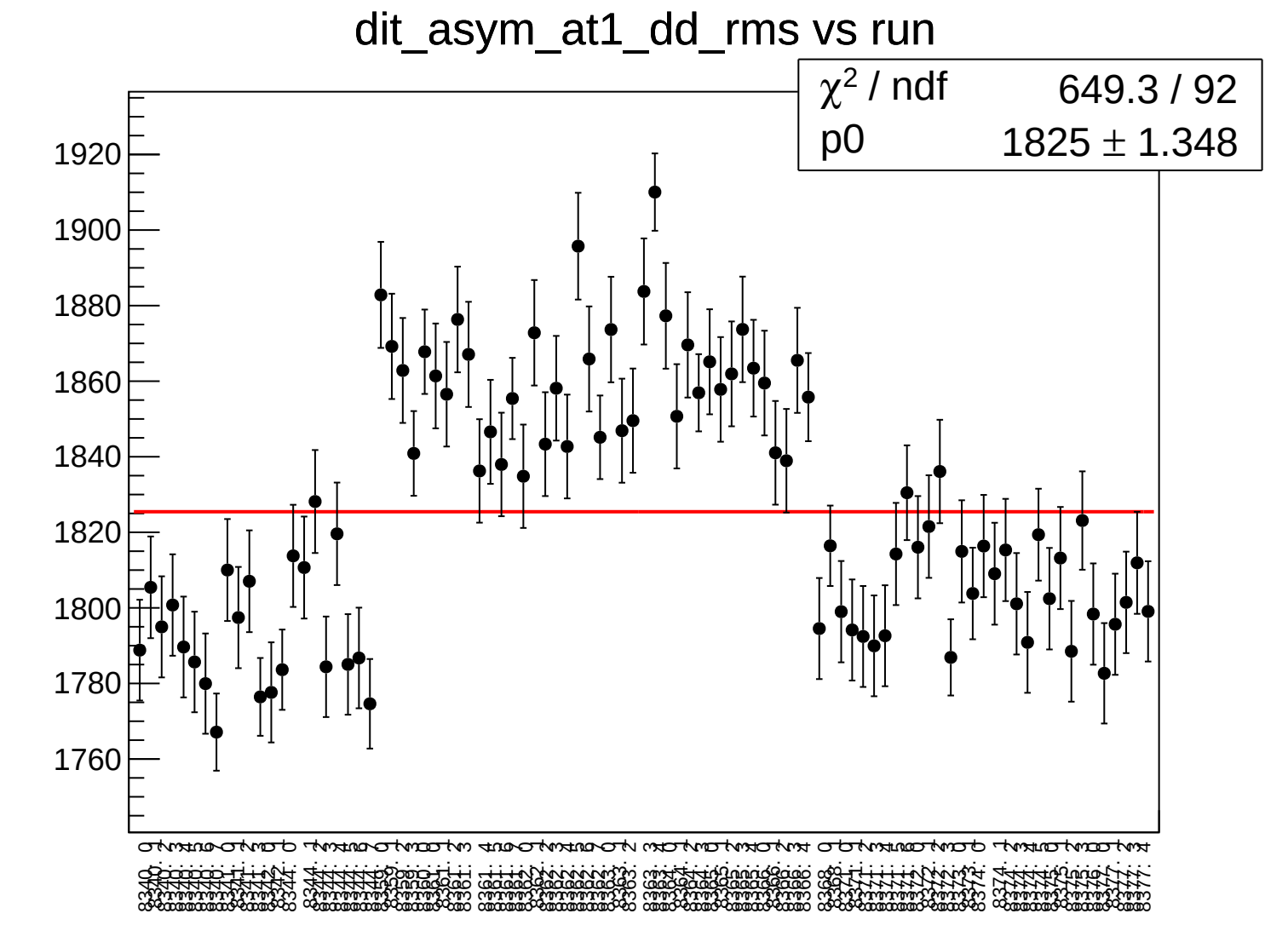

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.98 / 92
p0 3808 ± 586.4
pull
Entries 93
Mean −36.35
Std Dev 0

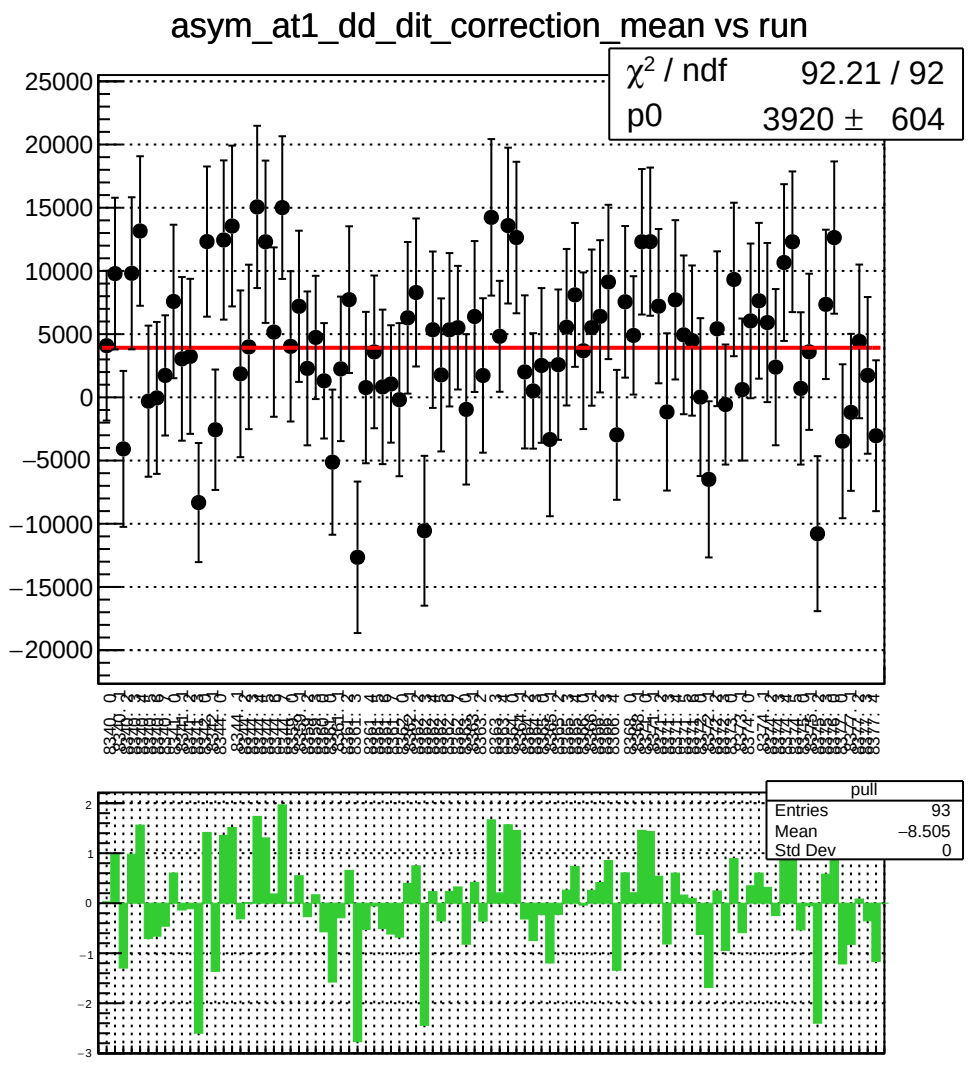

pull1D
Entries 93
Mean 0.02172
Std Dev 0.9724

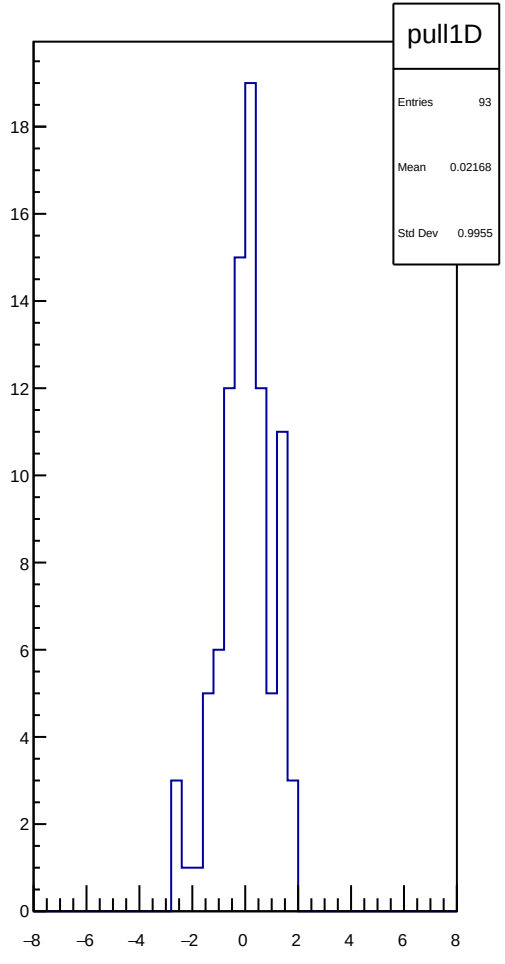

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5495 / 92
p0 560.7 ± 0.4147
700
650
600
550
500

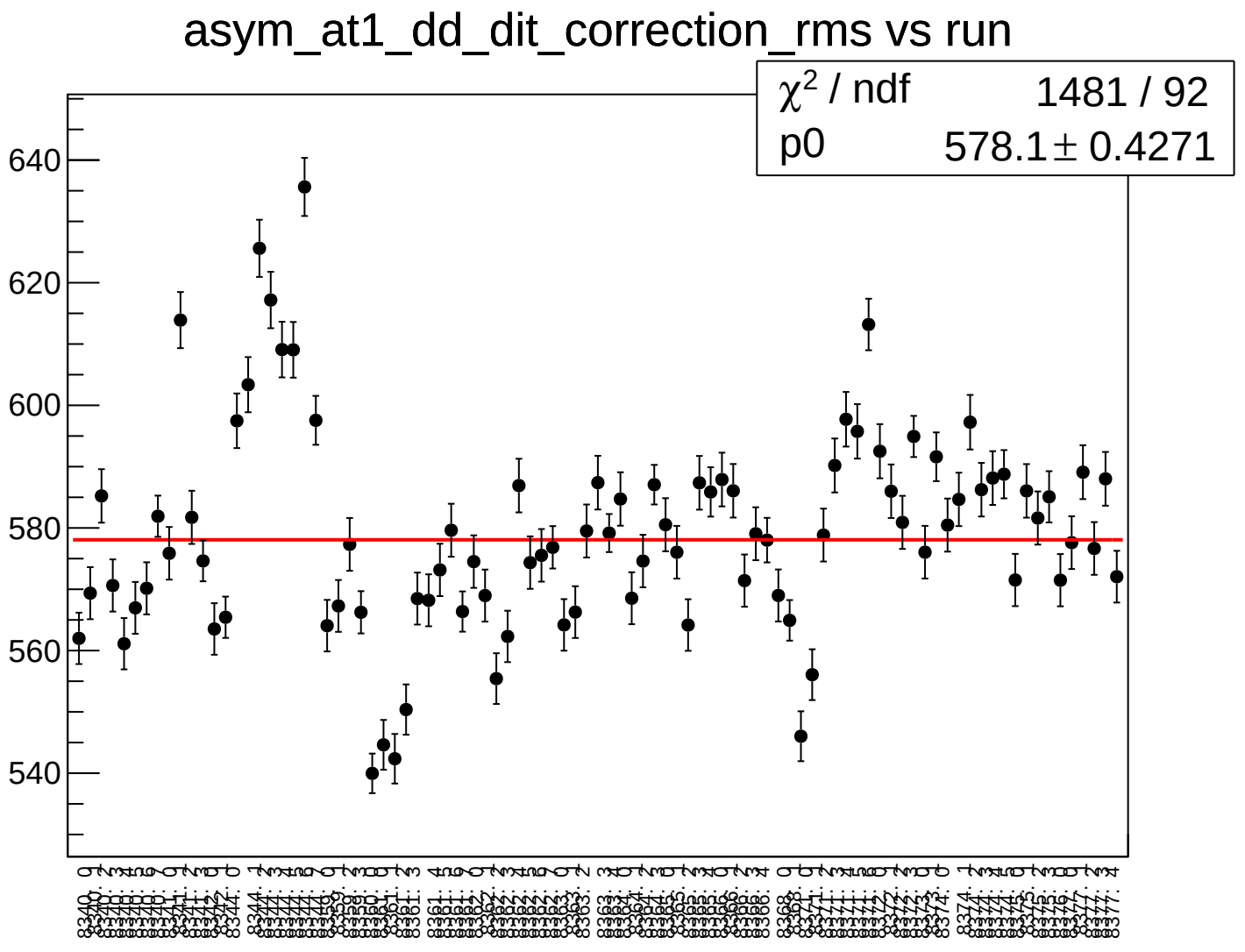

dit_asym_at1_dd_mean vs run
χ² / ndf 105.2 / 92
p0 157.2 ± 1907
pull
Entries 93
Mean 753.2
Std Dev 0

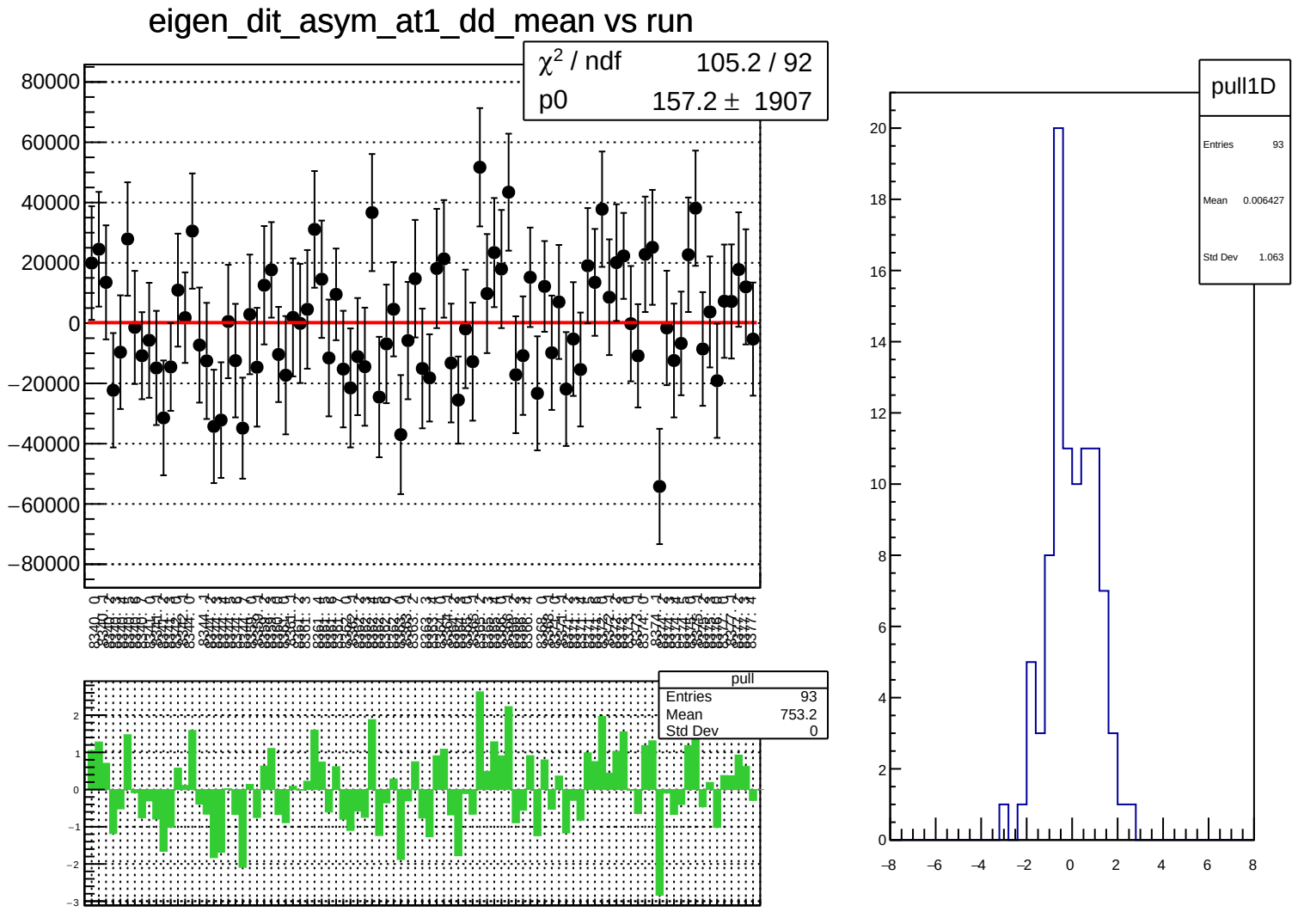

pull1D
Entries 93
Mean 0.006427
Std Dev 1.063

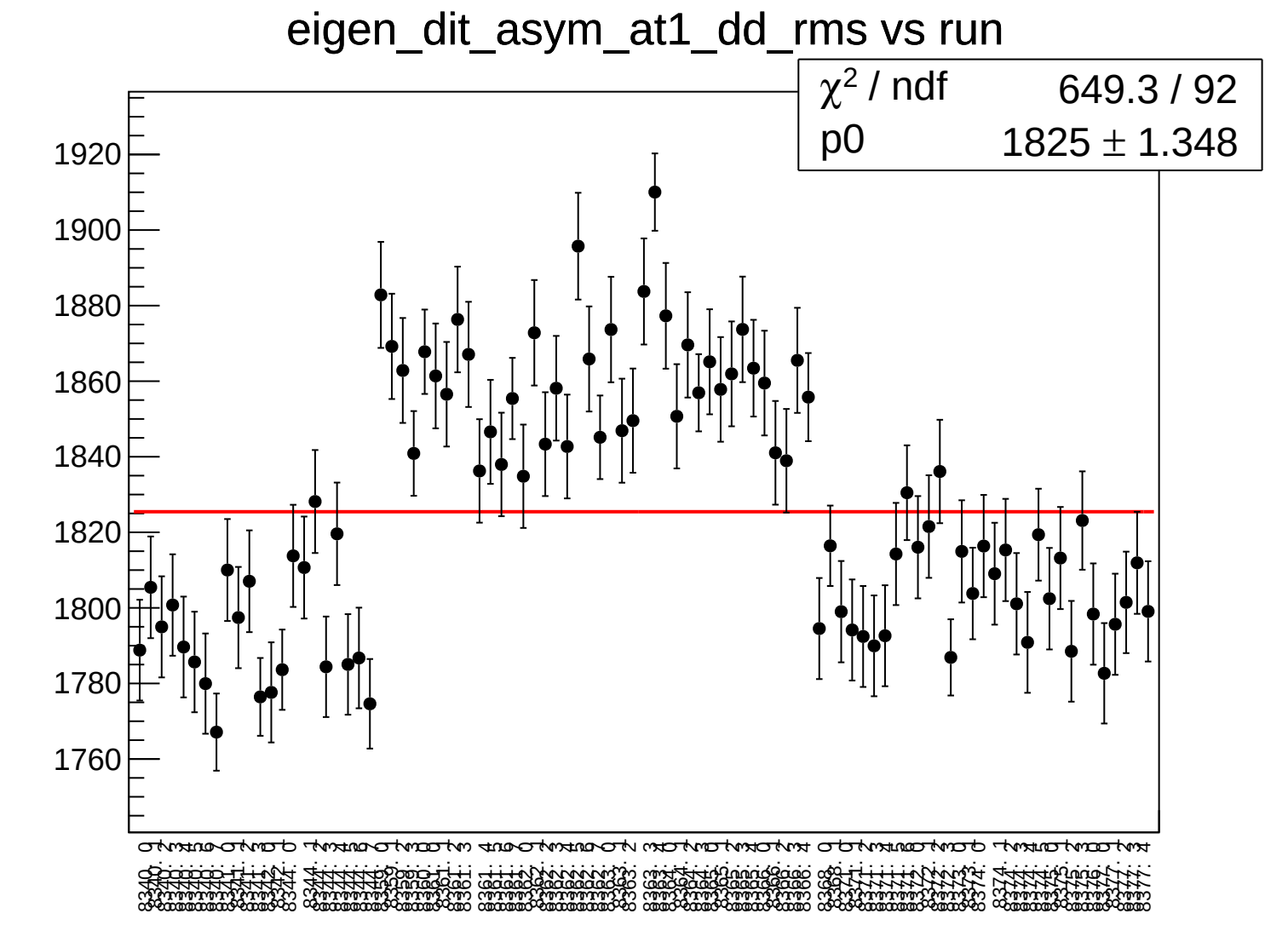

dit_asym_at1_dd_rms vs run
χ² / ndf 649.3 / 92
p0 1825 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760

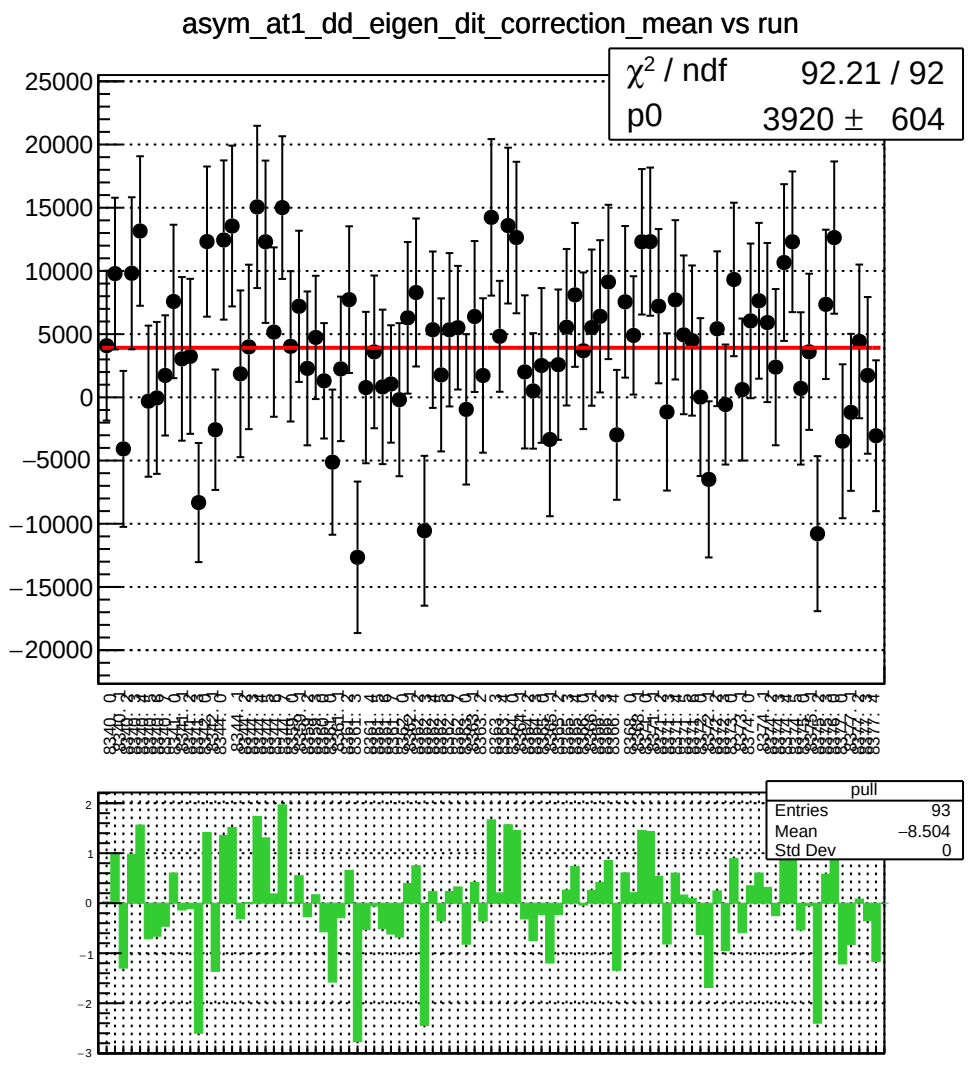

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 92.21 / 92
p0 3920 ± 604
pull
Entries 93
Mean −8.505
Std Dev 0

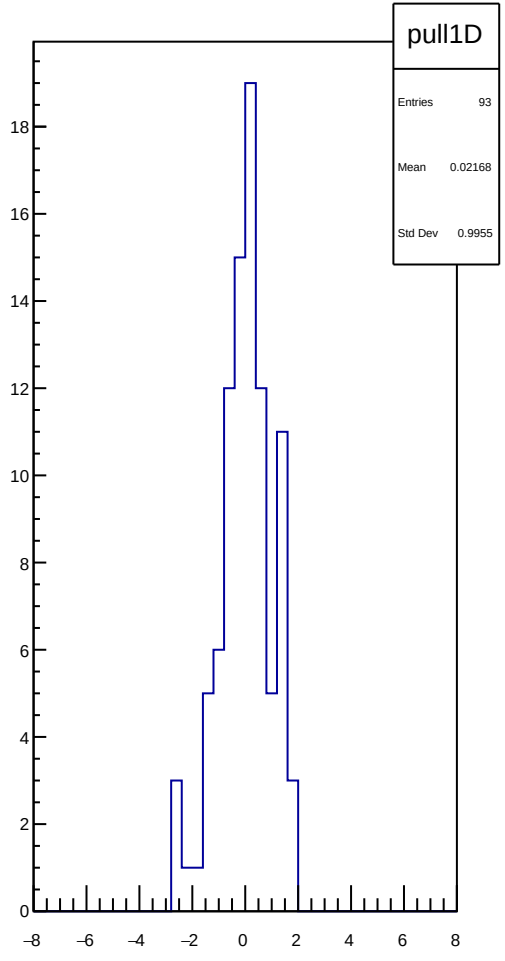

pull1D
Entries 93
Mean 0.02168
Std Dev 0.9955

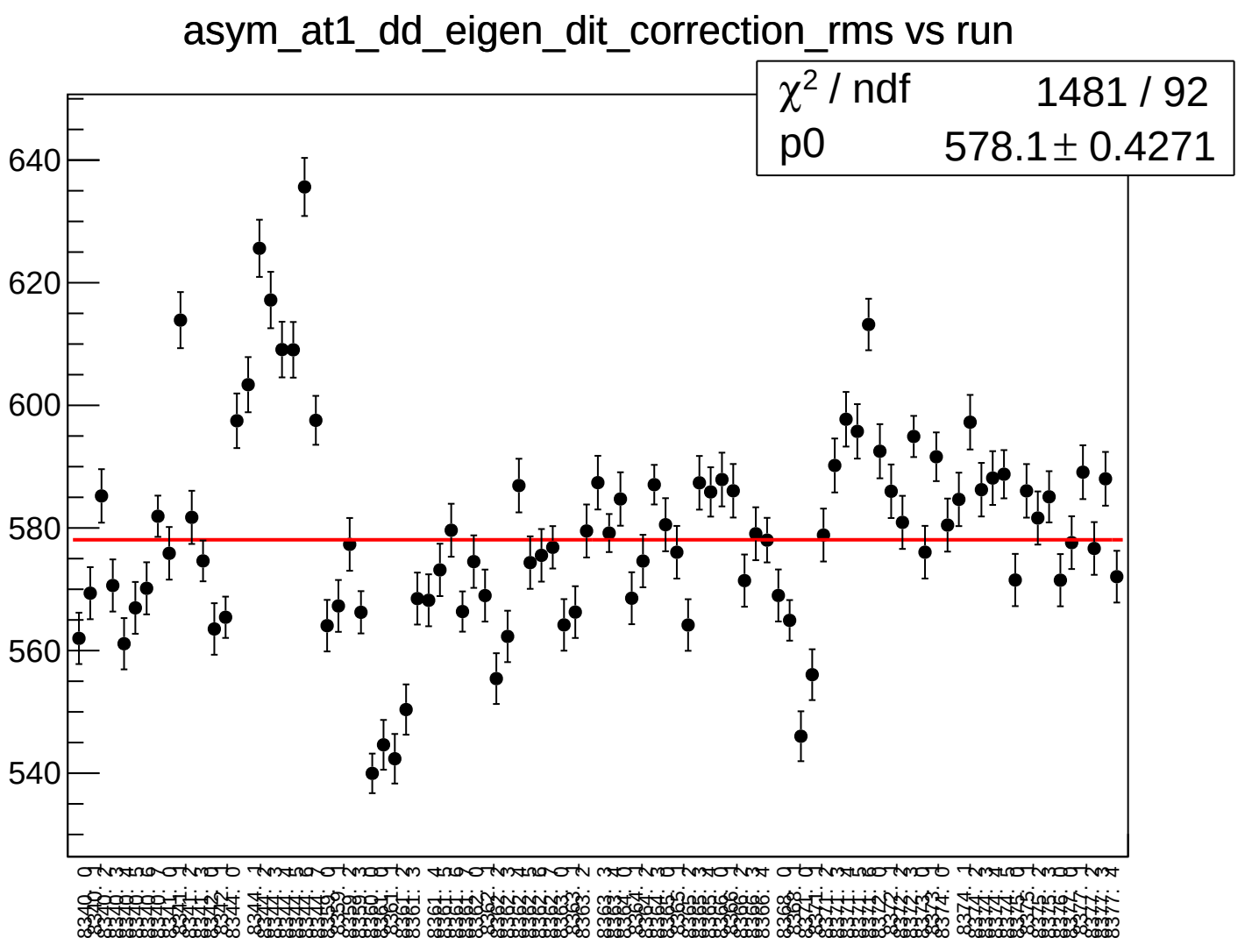

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1481 / 92
p0 578.1 ± 0.4271
640
620
600
580
560
540

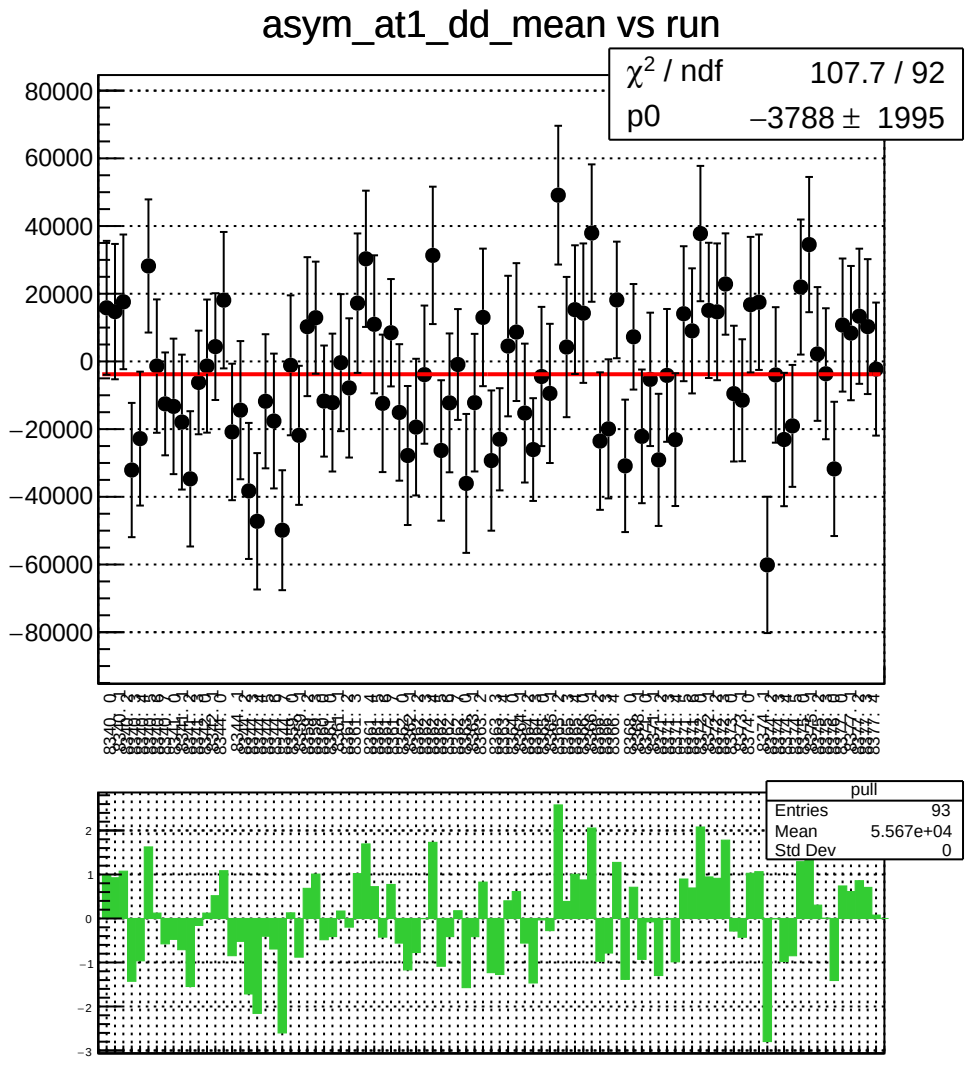

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 105.2 / 92
p0 157.2 ± 1907
pull
Entries 93
Mean 753.2
Std Dev 0
pull1D
Entries 93
Mean 0.006427
Std Dev 1.063

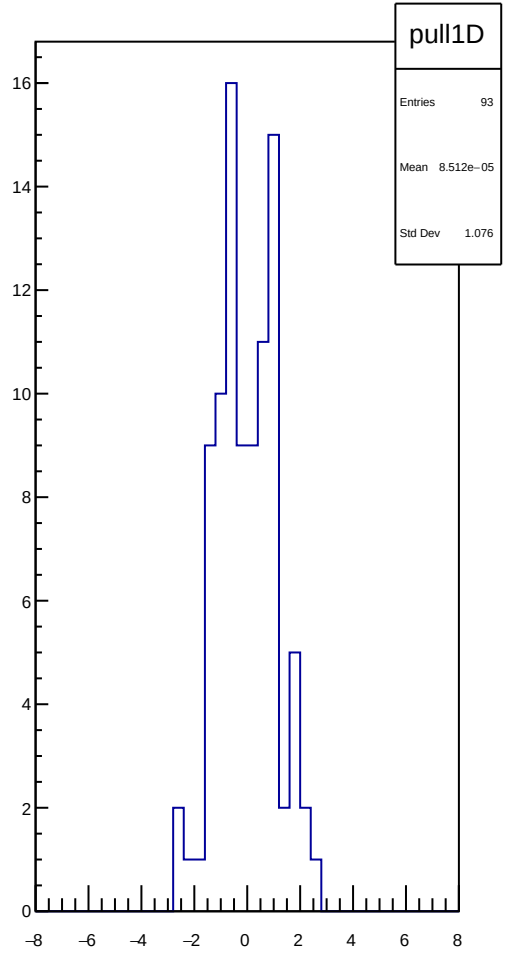

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 649.3 / 92
p0 1825 ± 1.348
1920
1900
1880
1860
1840
1820
1800
1780
1760

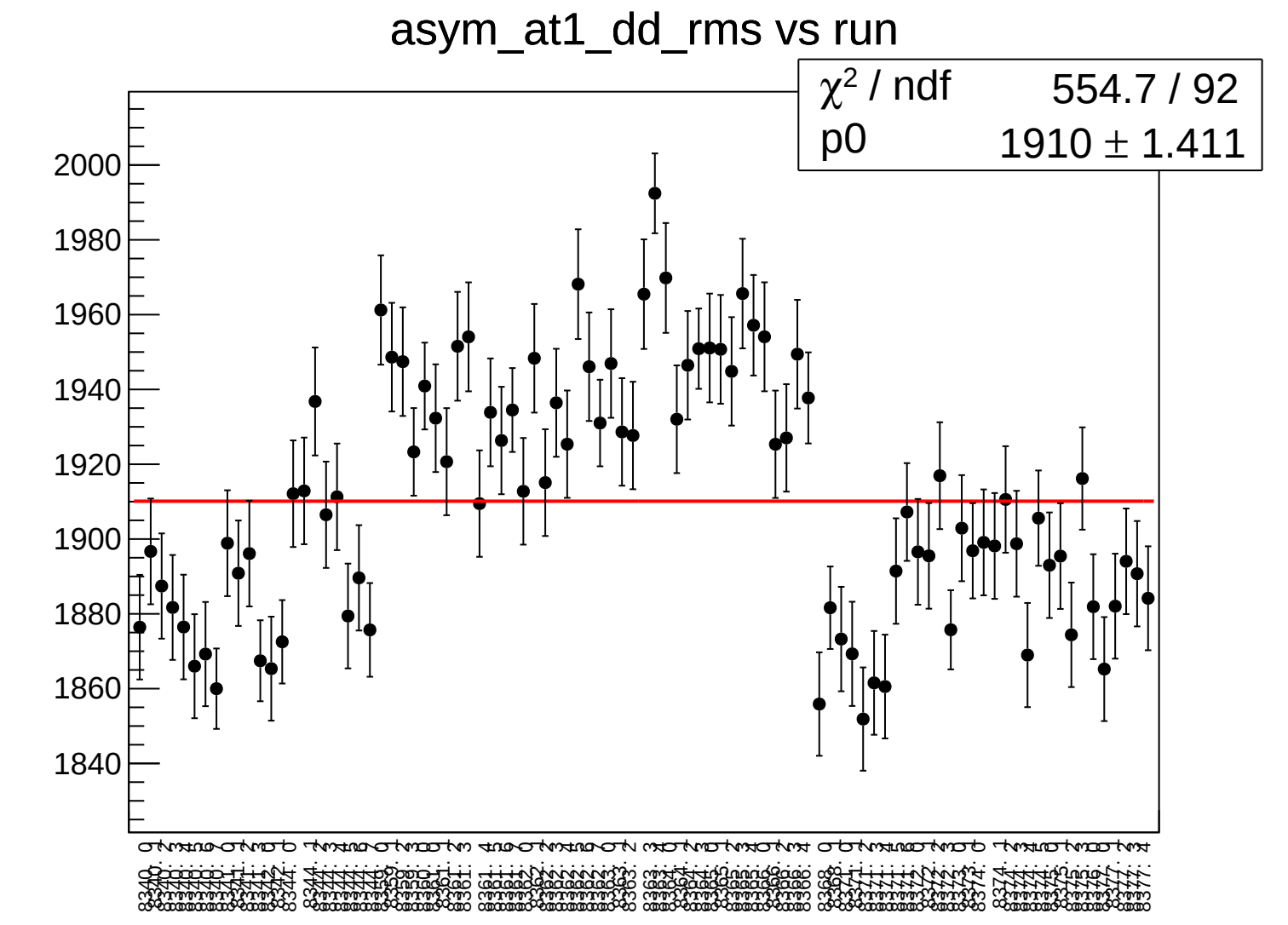

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.21 / 92
p0 3920 ± 604
pull
Entries 93
Mean −8.504
Std Dev 0

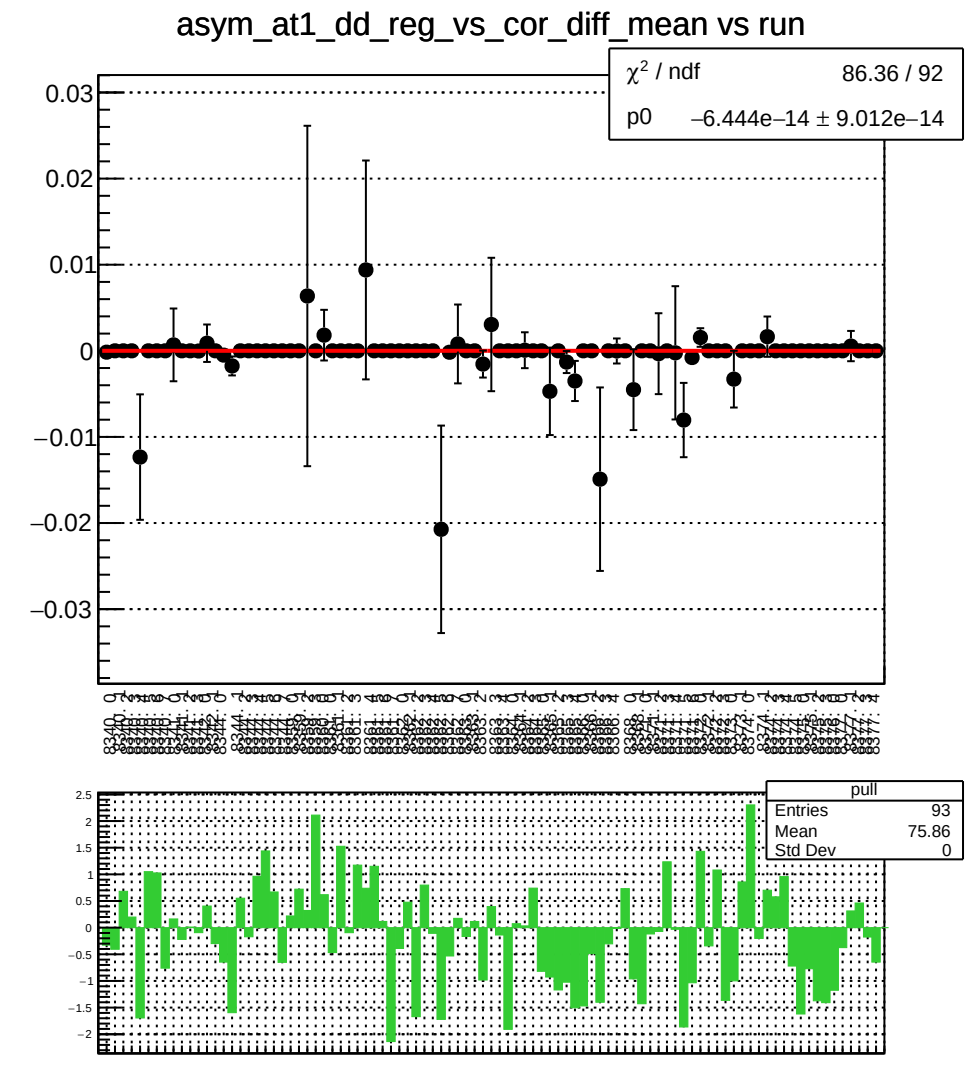

pull1D
Entries 93
Mean 0.02168
Std Dev 0.9955

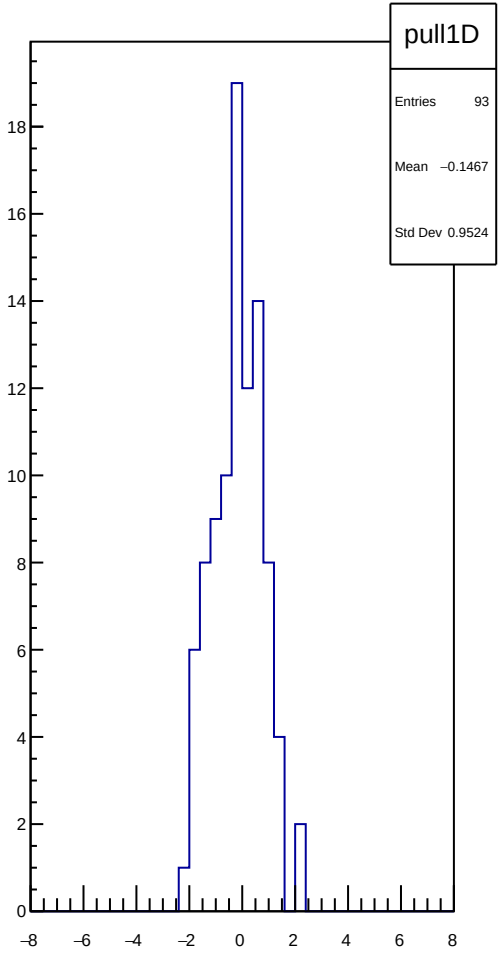

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1481 / 92
p0 578.1 ± 0.4271
640
620
600
580
560
540

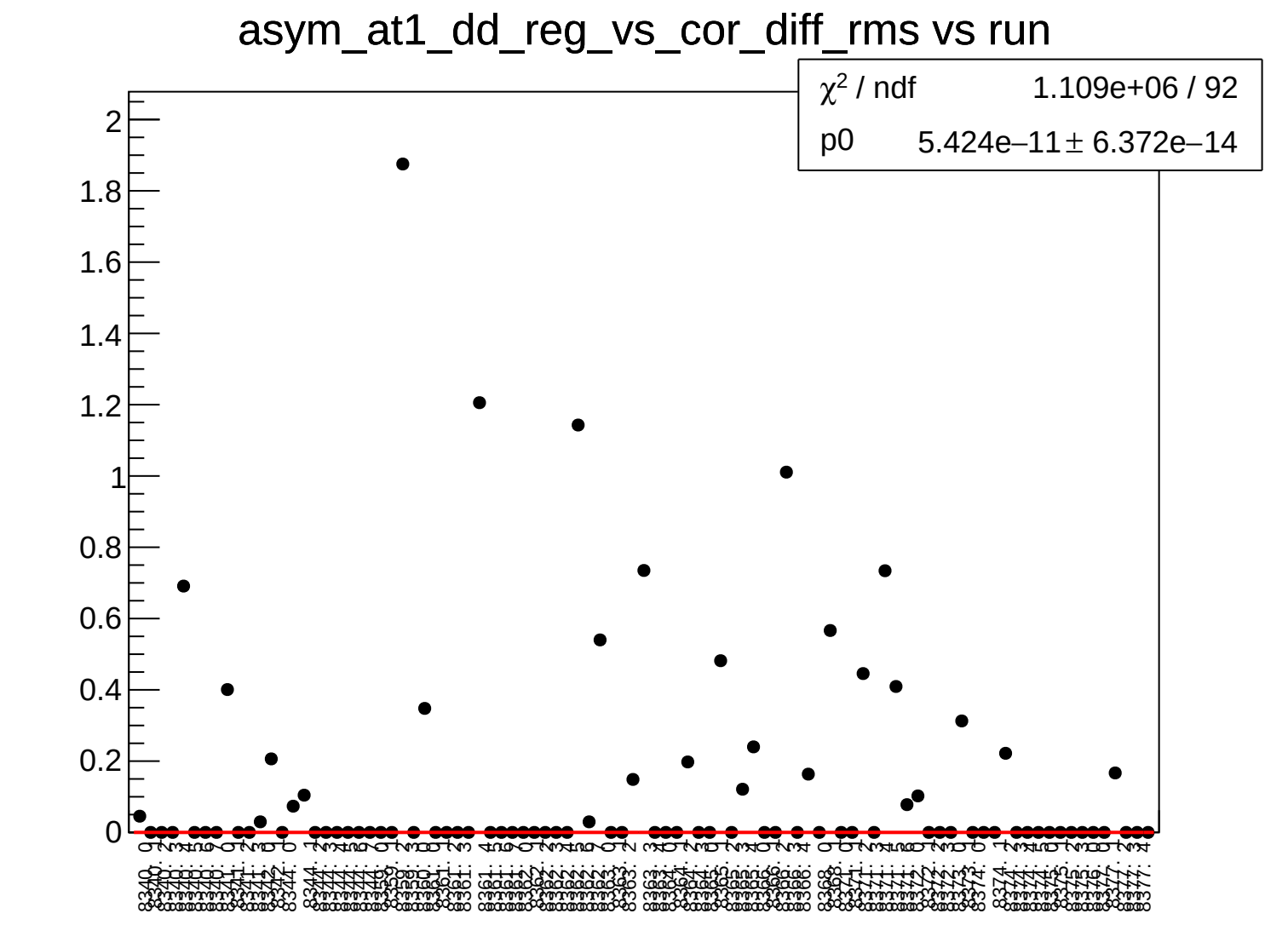

asym_at1_dd_mean vs run
χ² / ndf 107.7 / 92
p0 −3788 ± 1995
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 5.567e+04
Std Dev 0
2
1
0
−1
−2
−3

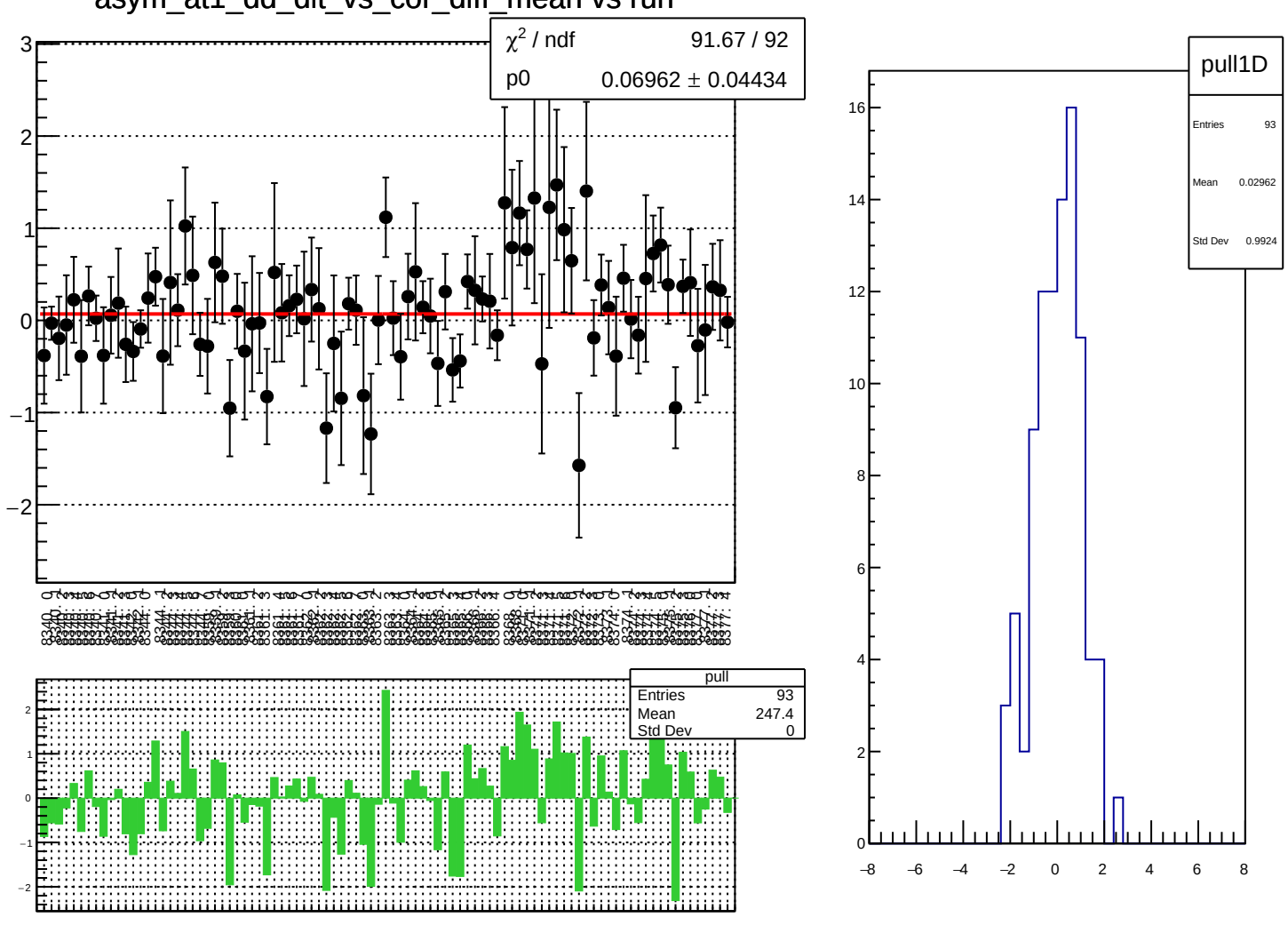

pull1D
Entries 93
Mean 8.512e−05
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

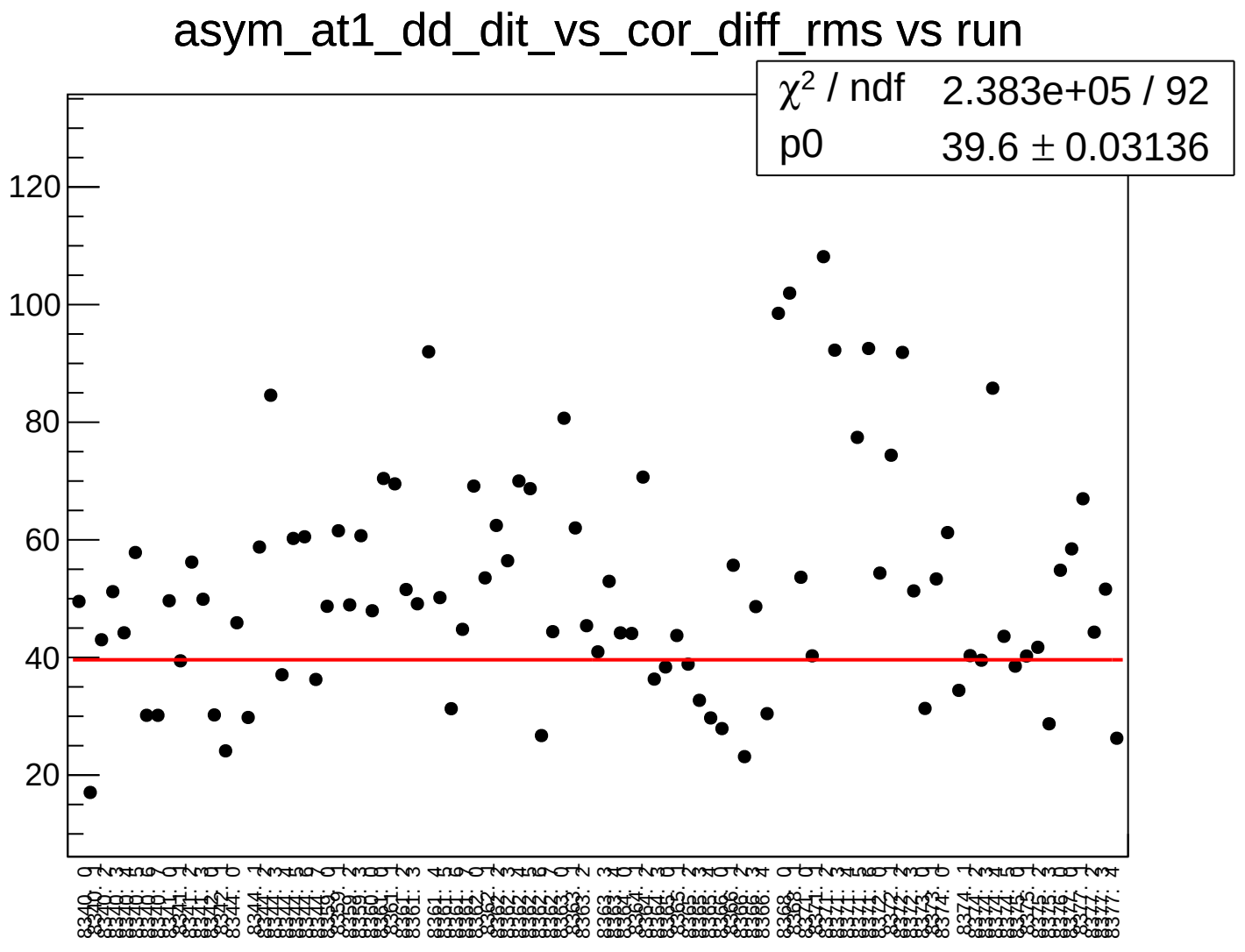

asym_at1_dd_rms vs run
χ² / ndf 554.7 / 92
p0 1910 ± 1.411
2000
1980
1960
1940
1920
1900
1880
1860
1840

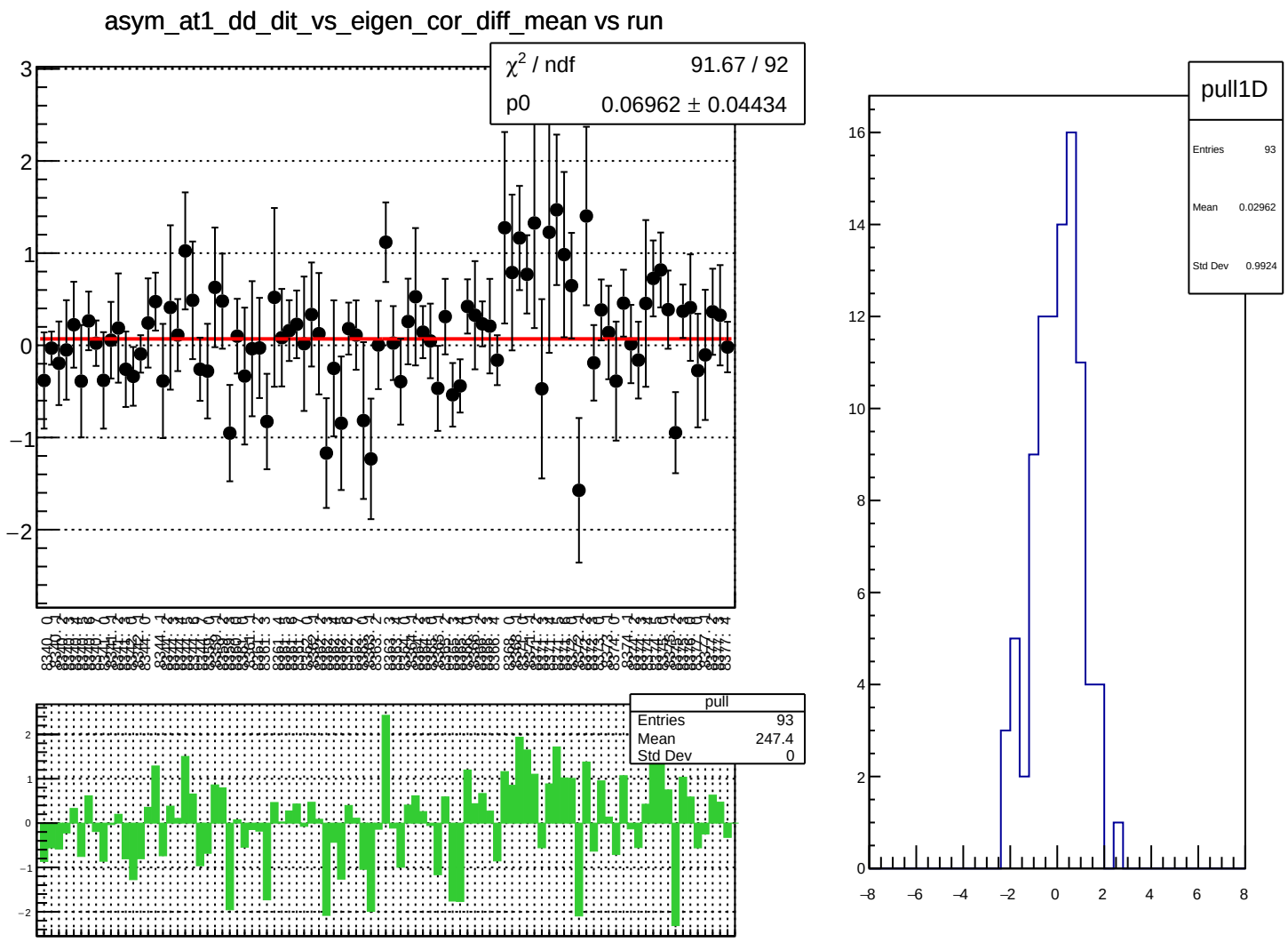

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.36 / 92
p0 −6.444e−14 ± 9.012e−14
pull
Entries 93
Mean 75.86
Std Dev 0

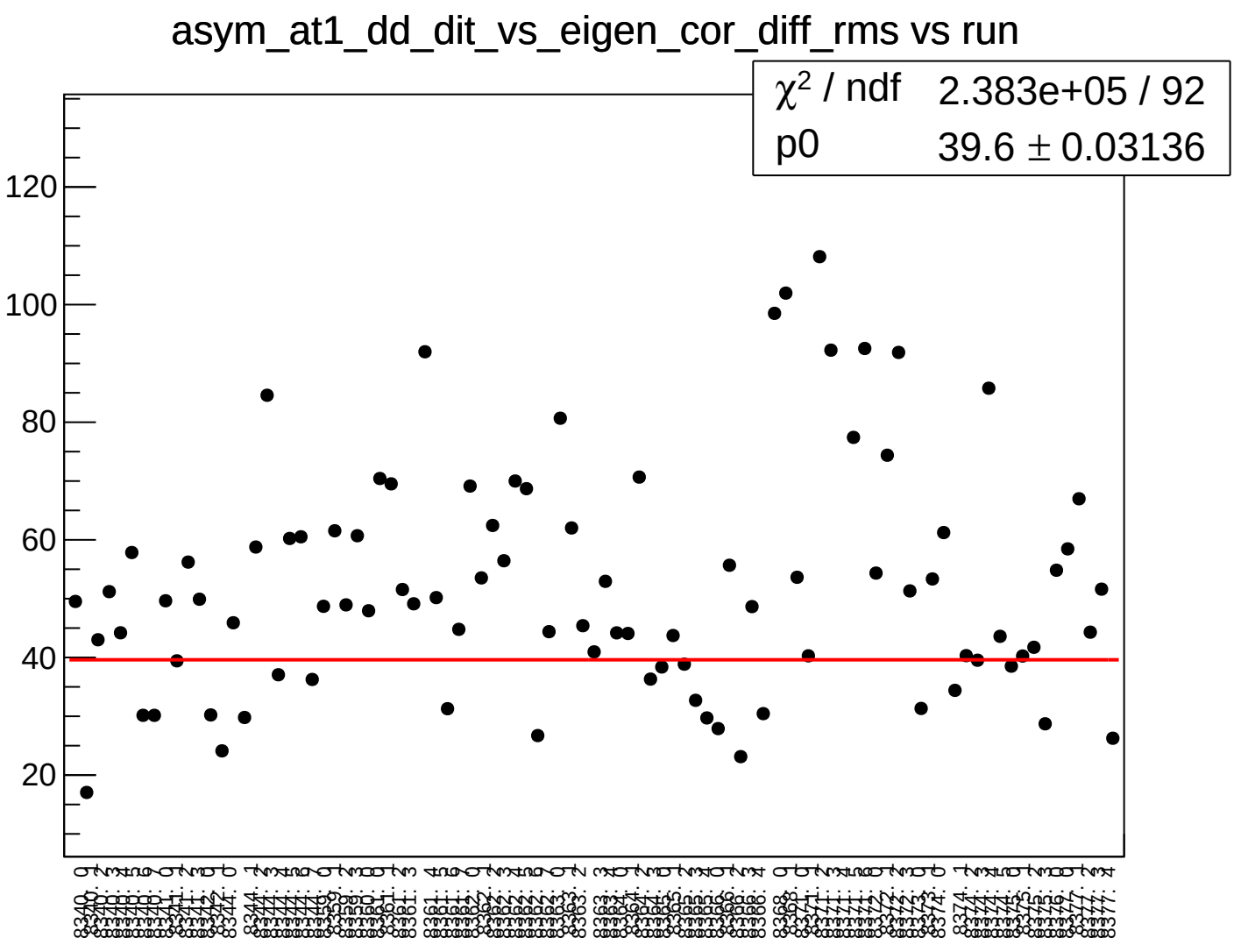

pull1D
Entries 93
Mean −0.1467
Std Dev 0.9524

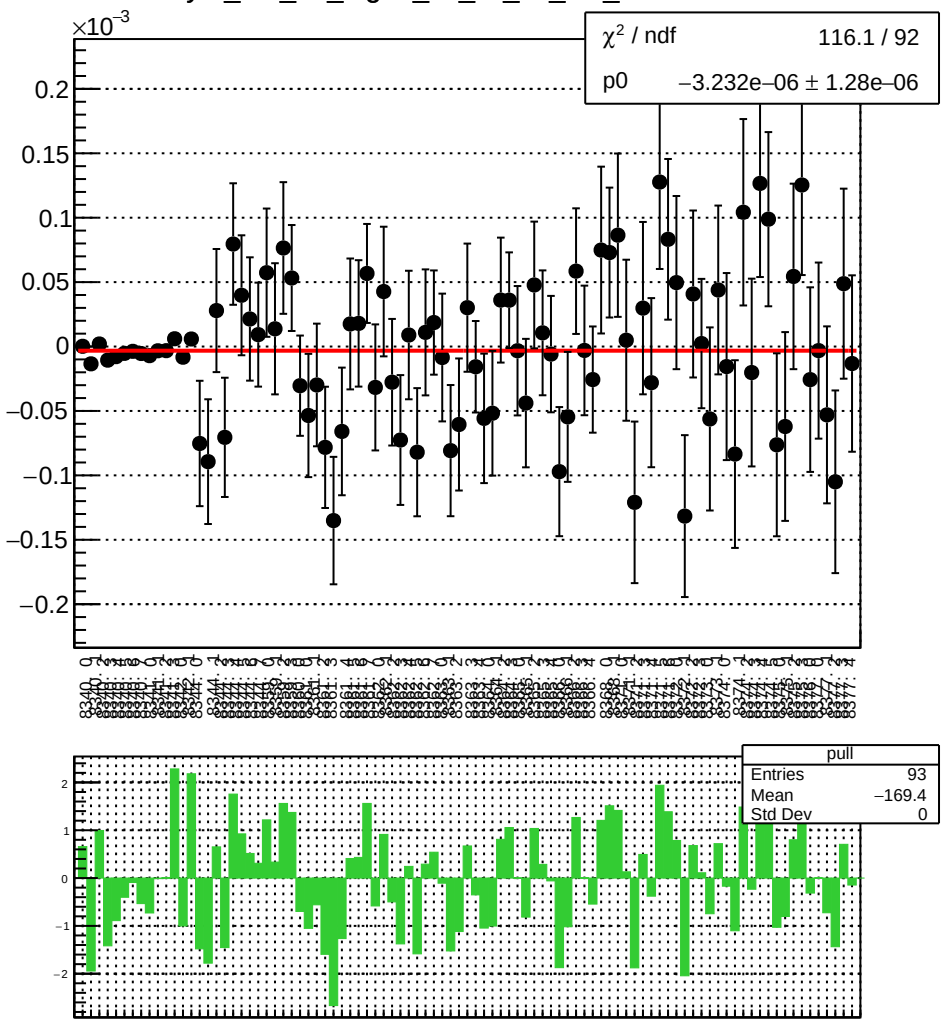

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 92
p0 5.424e−11 ± 6.372e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

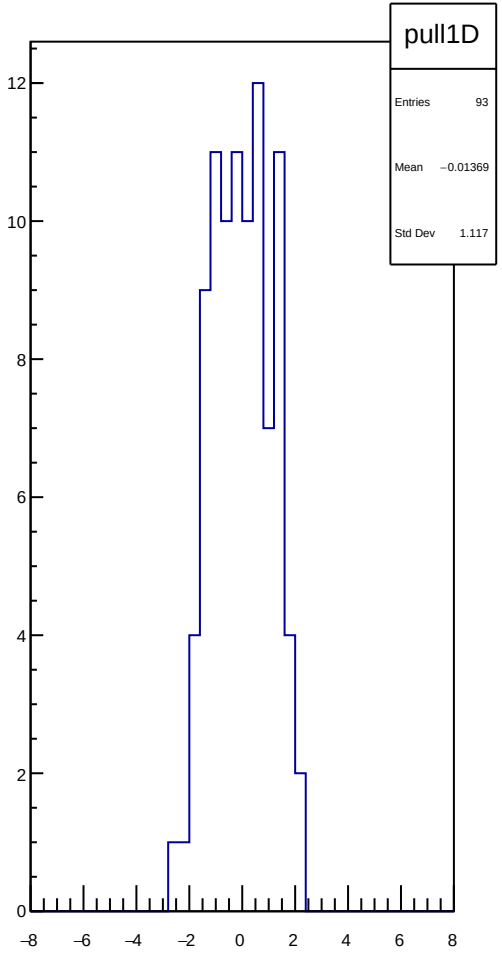

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.67 / 92
p0 0.06962 ± 0.04434
pull
Entries 93
Mean 247.4
Std Dev 0
pull1D
Entries 93
Mean 0.02962
Std Dev 0.9924

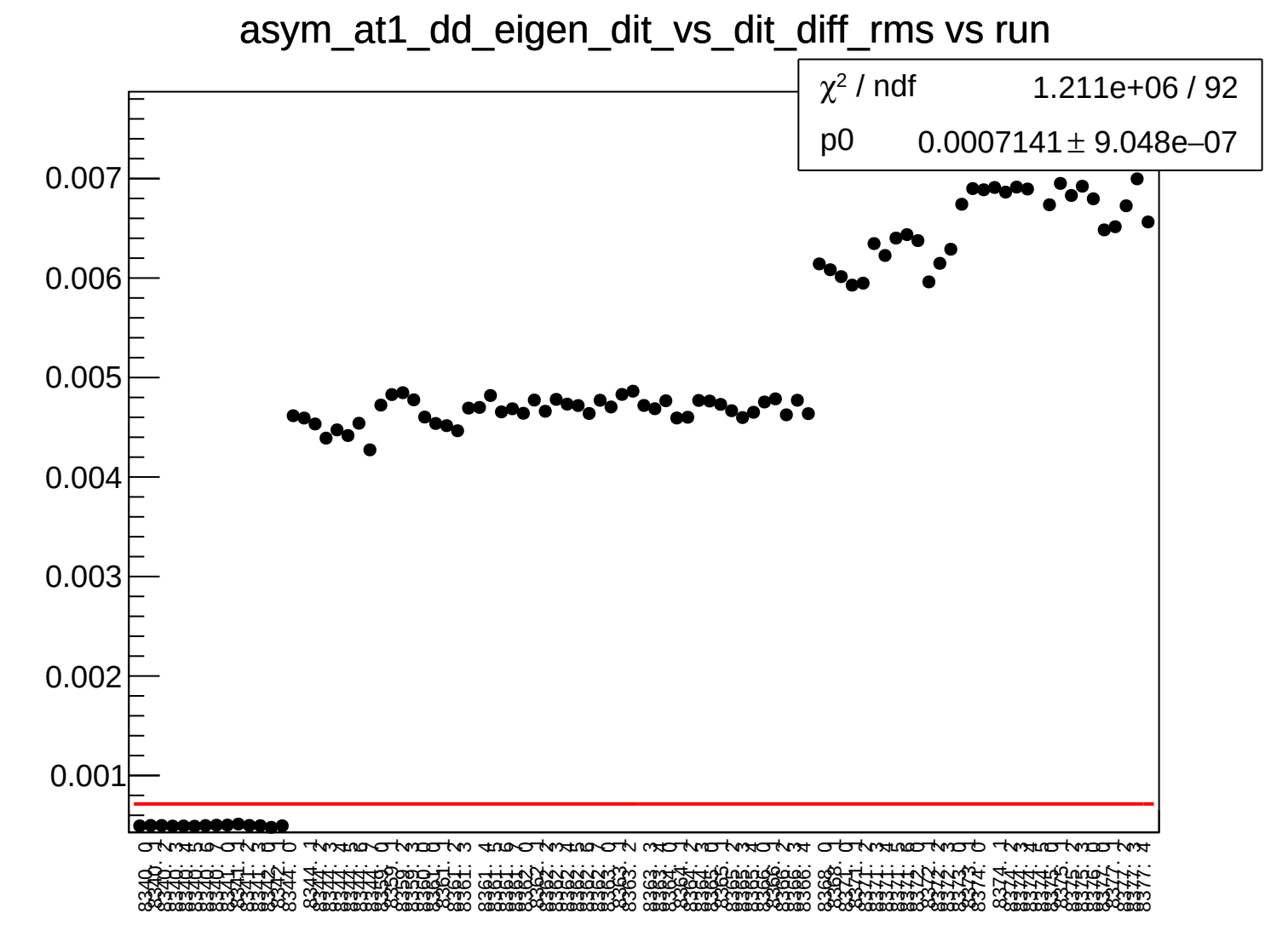

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.383e+05 / 92
p0 39.6 ± 0.03136
120
100
80
60
40
20

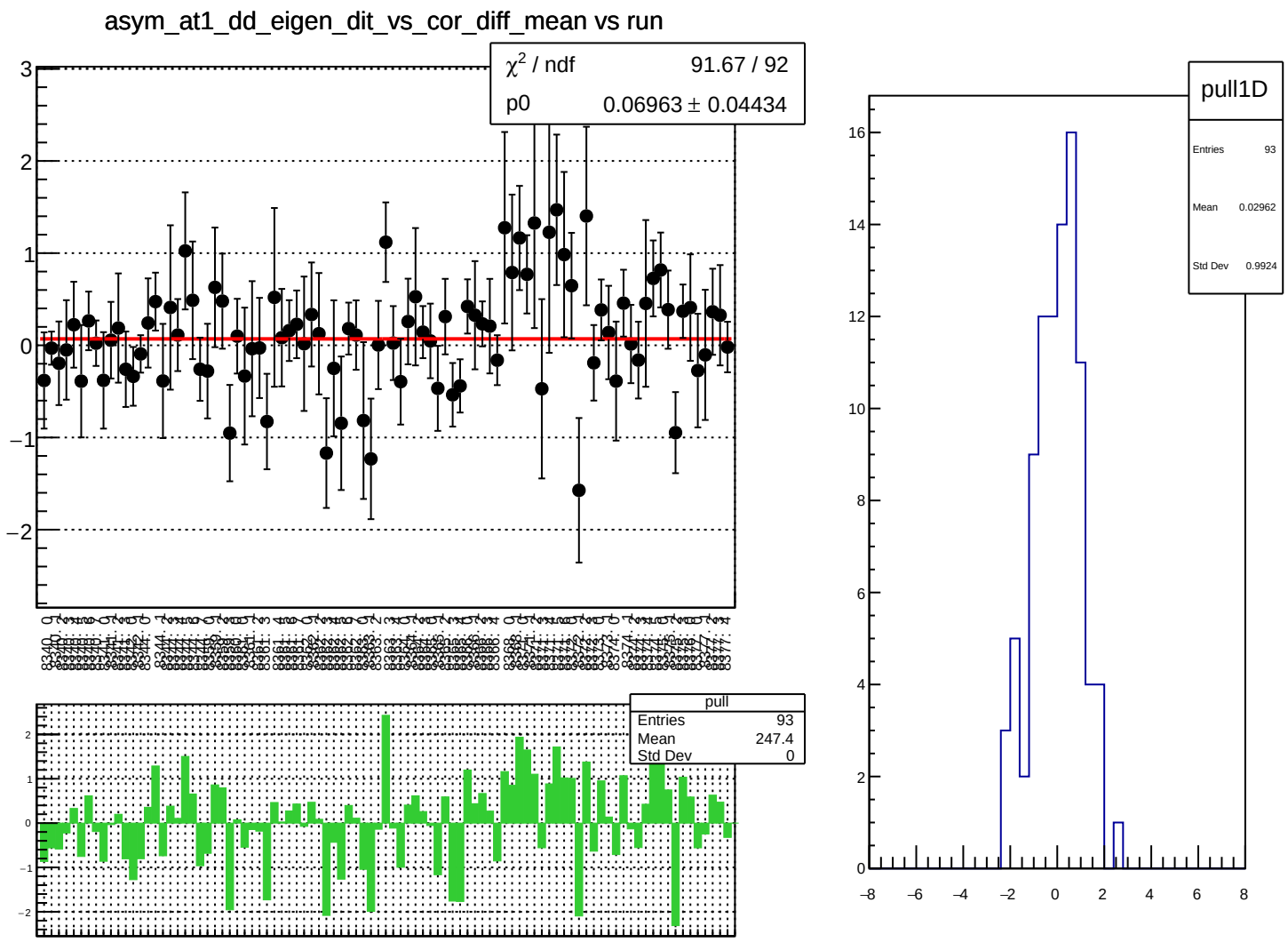

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.67 / 92
p0 0.06962 ± 0.04434
pull
Entries 93
Mean 247.4
Std Dev 0
pull1D
Entries 93
Mean 0.02962
Std Dev 0.9924

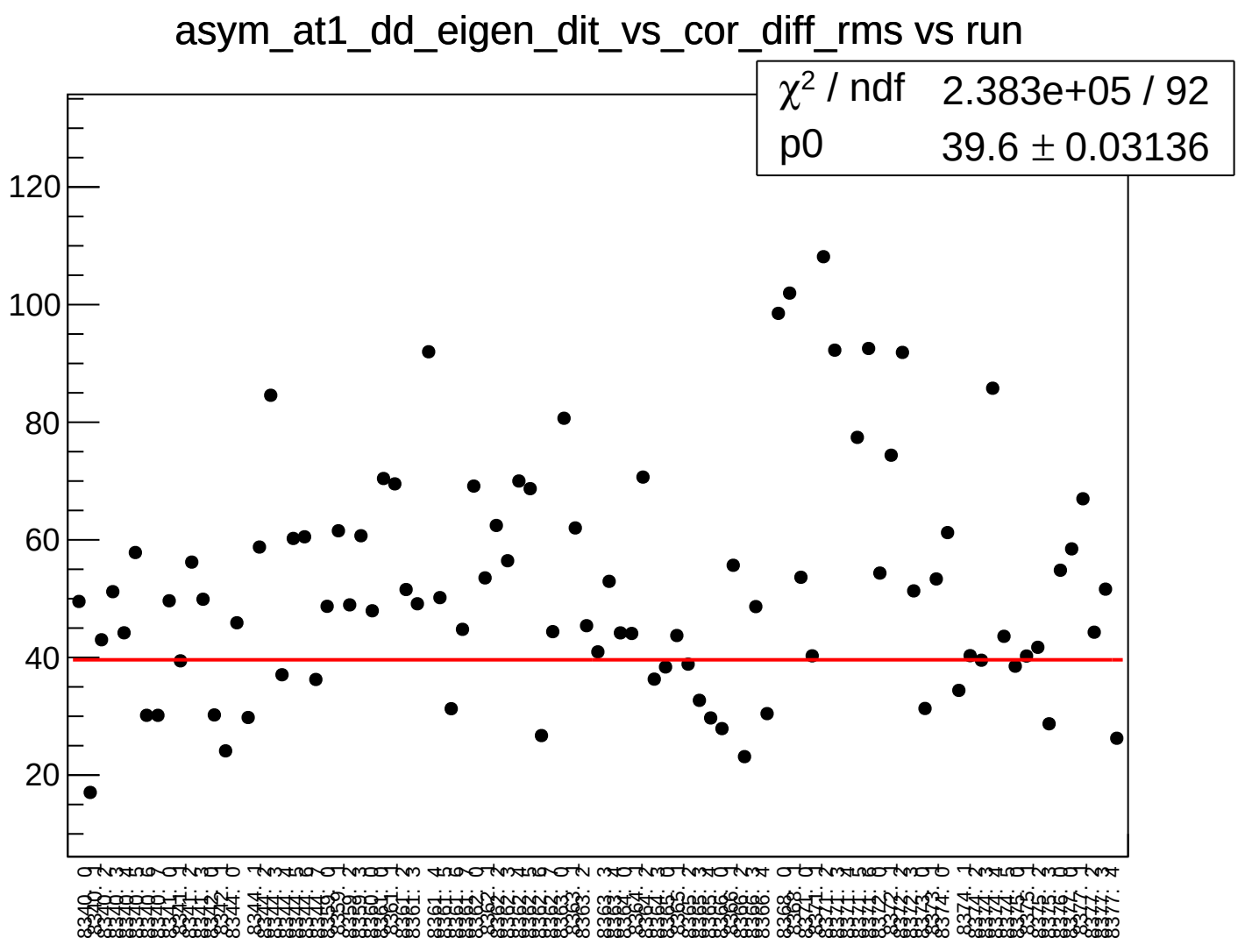

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.383e+05 / 92
p0 39.6 ± 0.03136
120
100
80
60
40
20

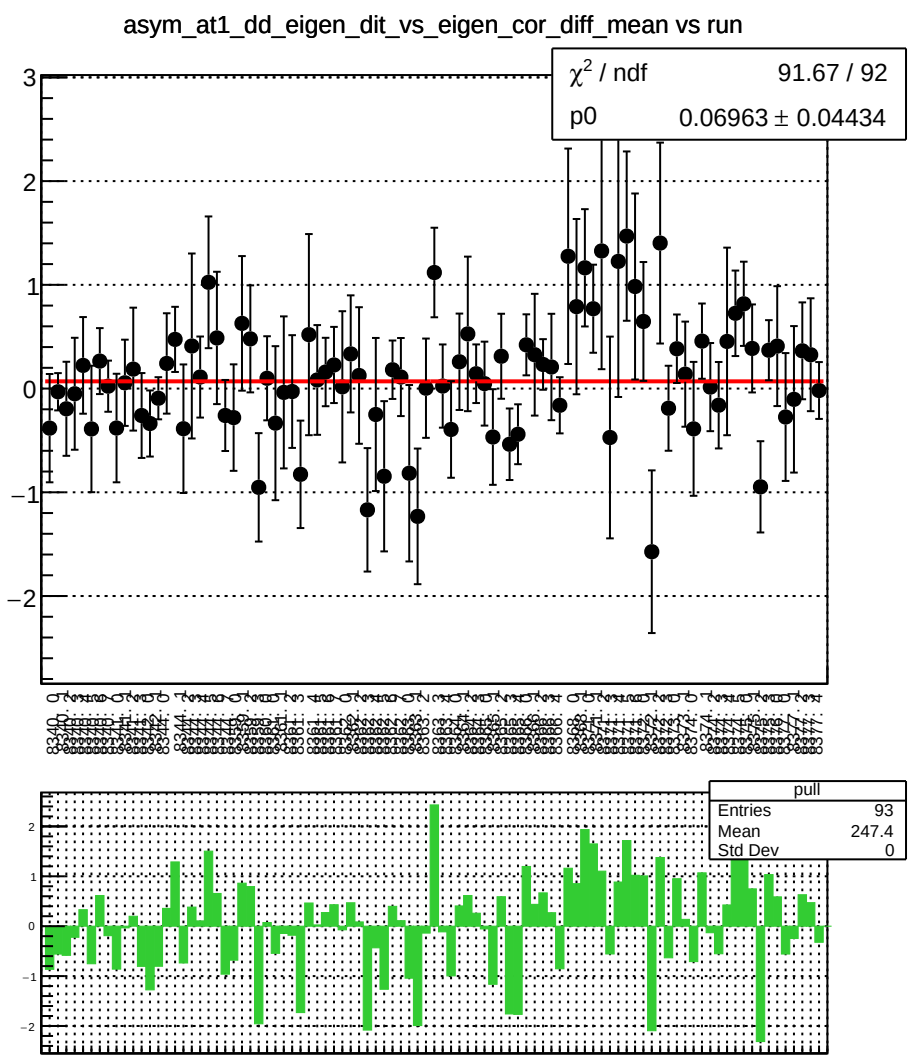

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 116.1 / 92
p0 −3.232e−06 ± 1.28e−06
pull
Entries 93
Mean −169.4
Std Dev 0

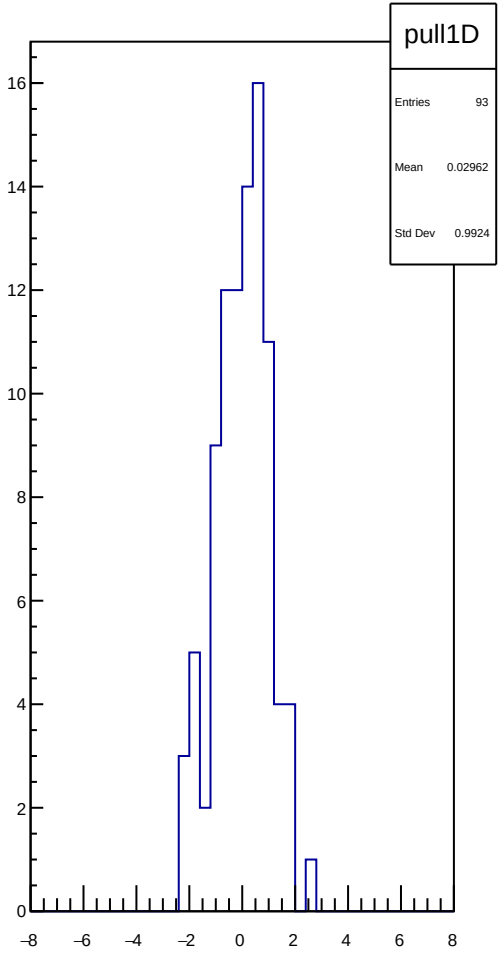

pull1D
Entries 93
Mean −0.01369
Std Dev 1.117

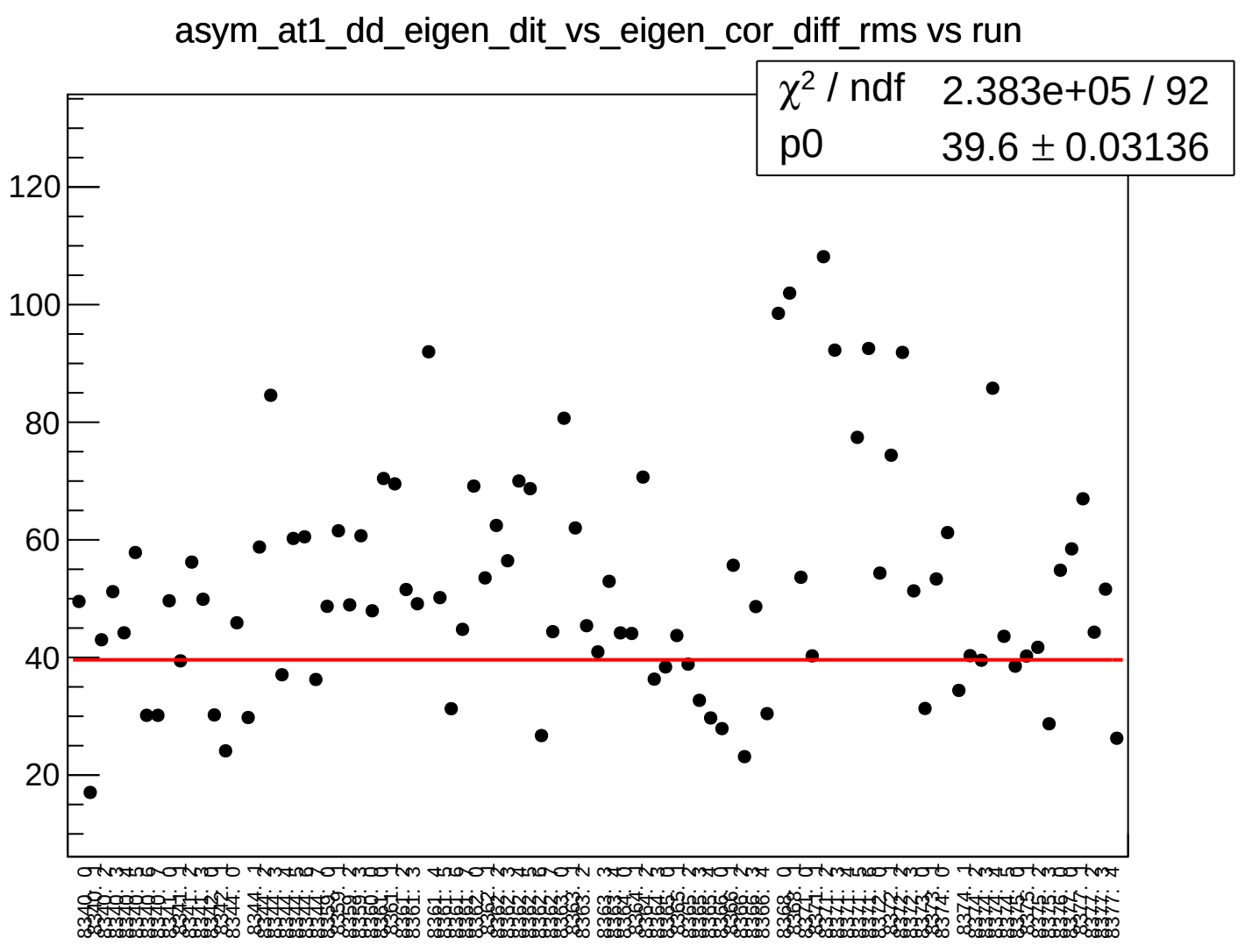

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.211e+06 / 92
p0 0.0007141 ± 9.048e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

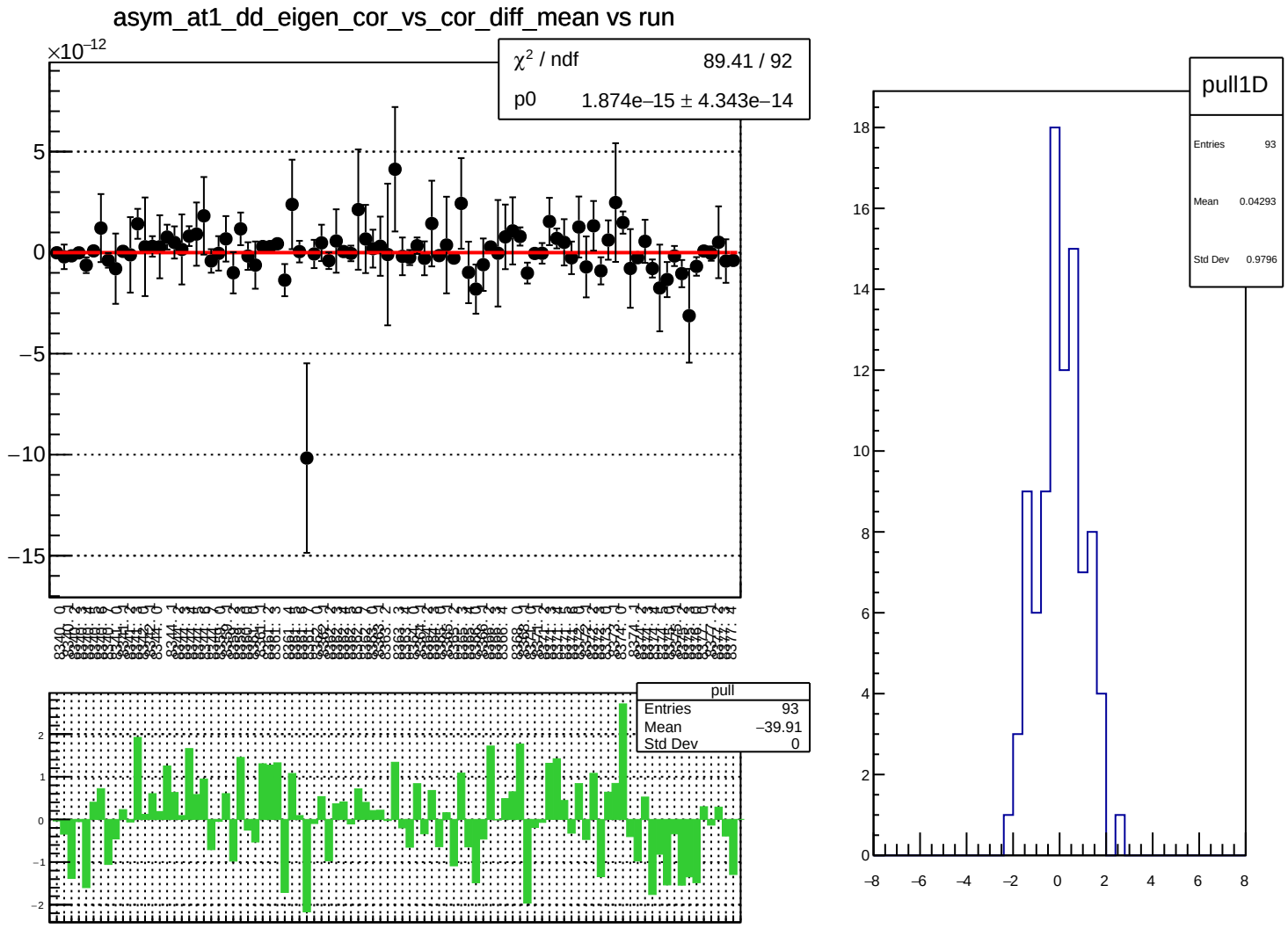

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.67 / 92
p0 0.06963 ± 0.04434
pull
Entries 93
Mean 247.4
Std Dev 0
pull1D
Entries 93
Mean 0.02962
Std Dev 0.9924

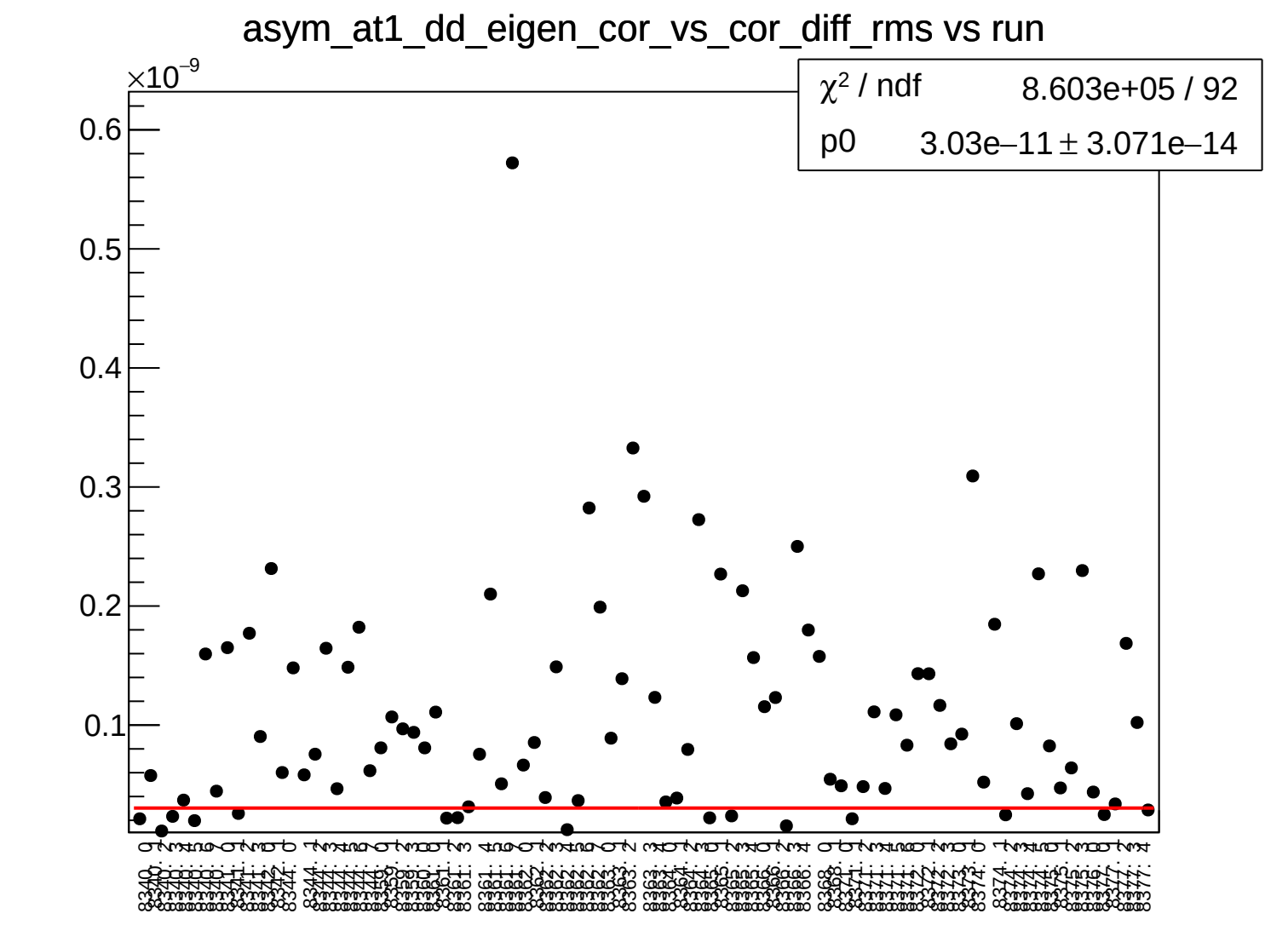

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.383e+05 / 92
p0 39.6 ± 0.03136
120
100
80
60
40
20

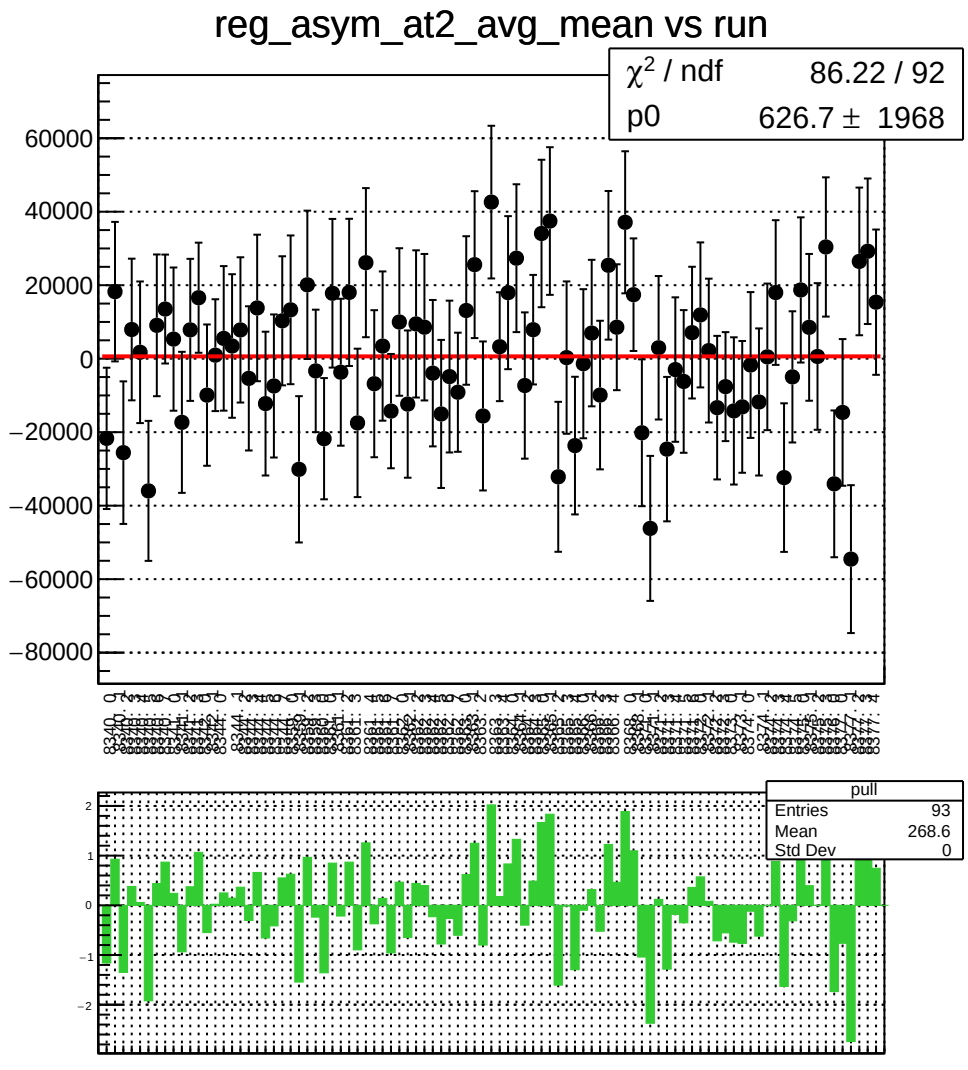

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.67 / 92
p0 0.06963 ± 0.04434
pull
Entries 93
Mean 247.4
Std Dev 0

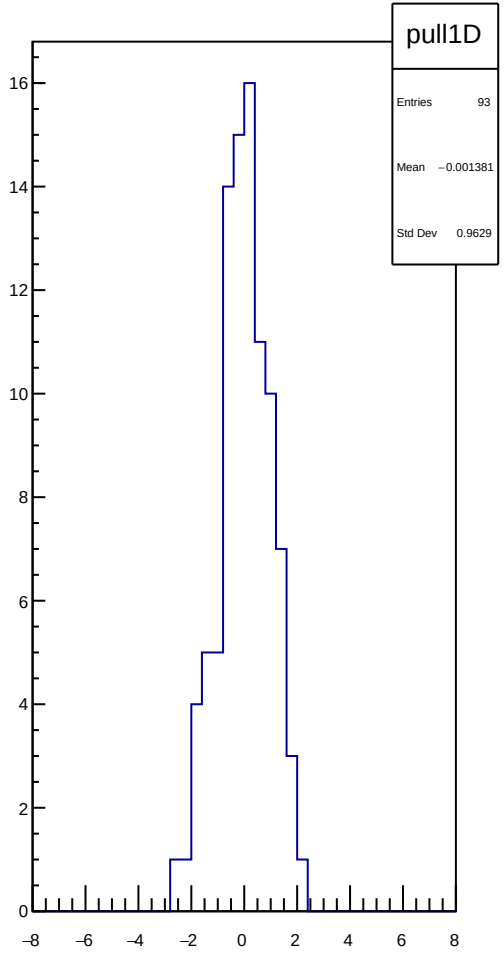

pull1D
Entries 93
Mean 0.02962
Std Dev 0.9924

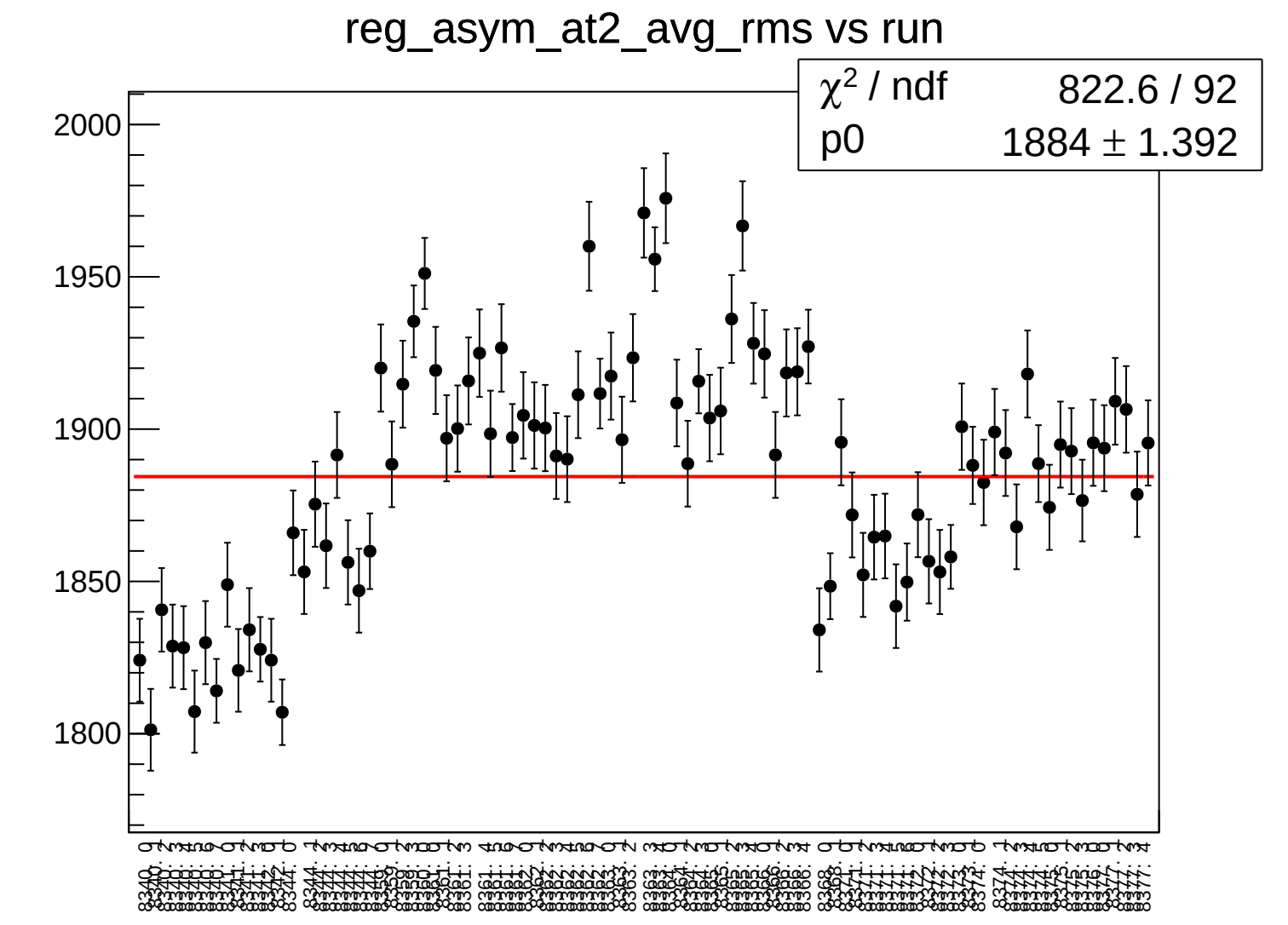

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.383e+05 / 92
p0 39.6 ± 0.03136
120
100
80
60
40
20

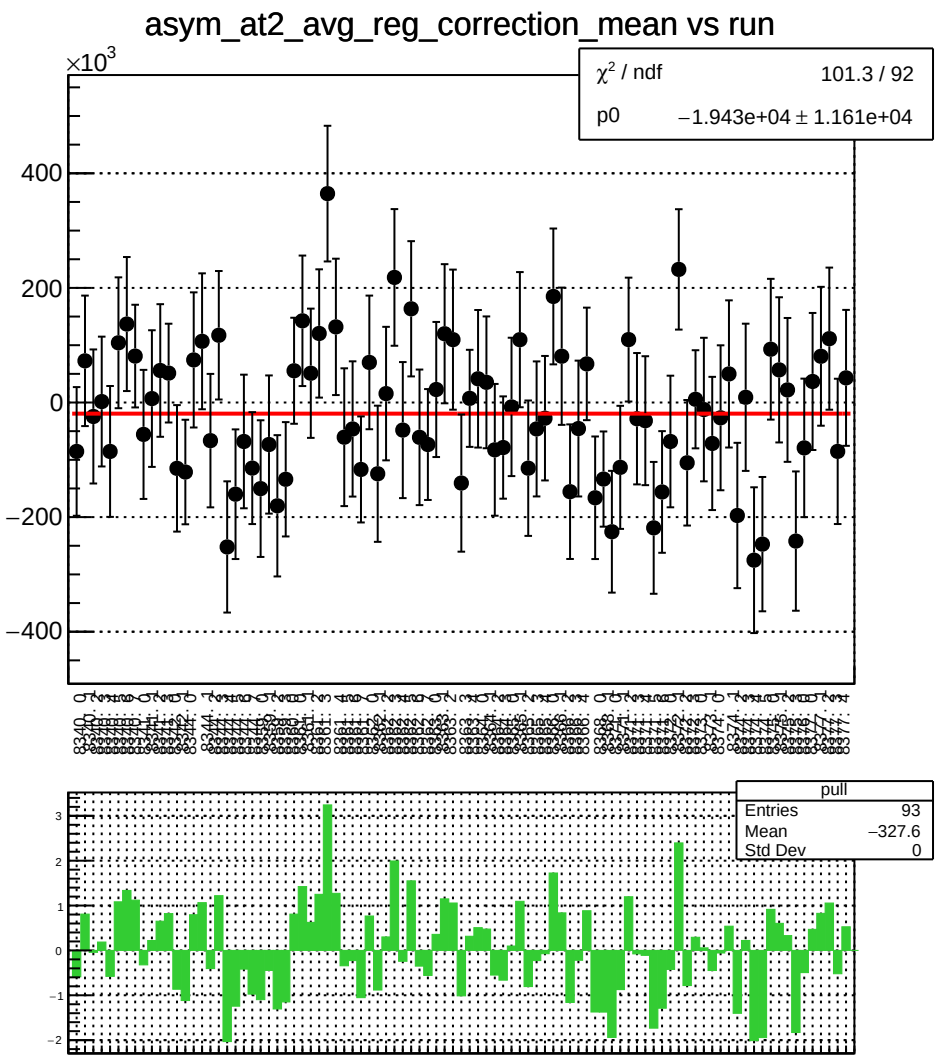

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.41 / 92
p0 1.874e−15 ± 4.343e−14
5
0
−5
−10
−15
pull
Entries 93
Mean −39.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04293
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

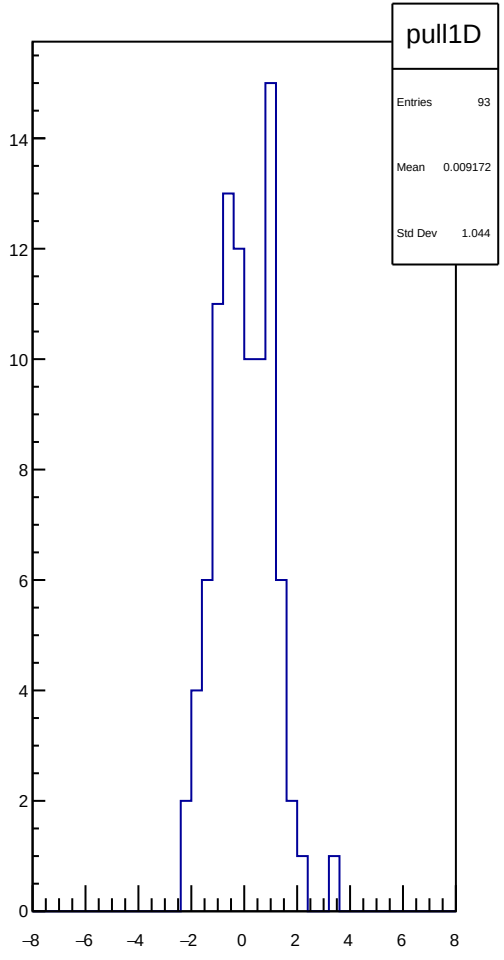

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.603e+05 / 92
p0 3.03e−11 ± 3.071e−14
0.6
0.5
0.4
0.3
0.2
0.1

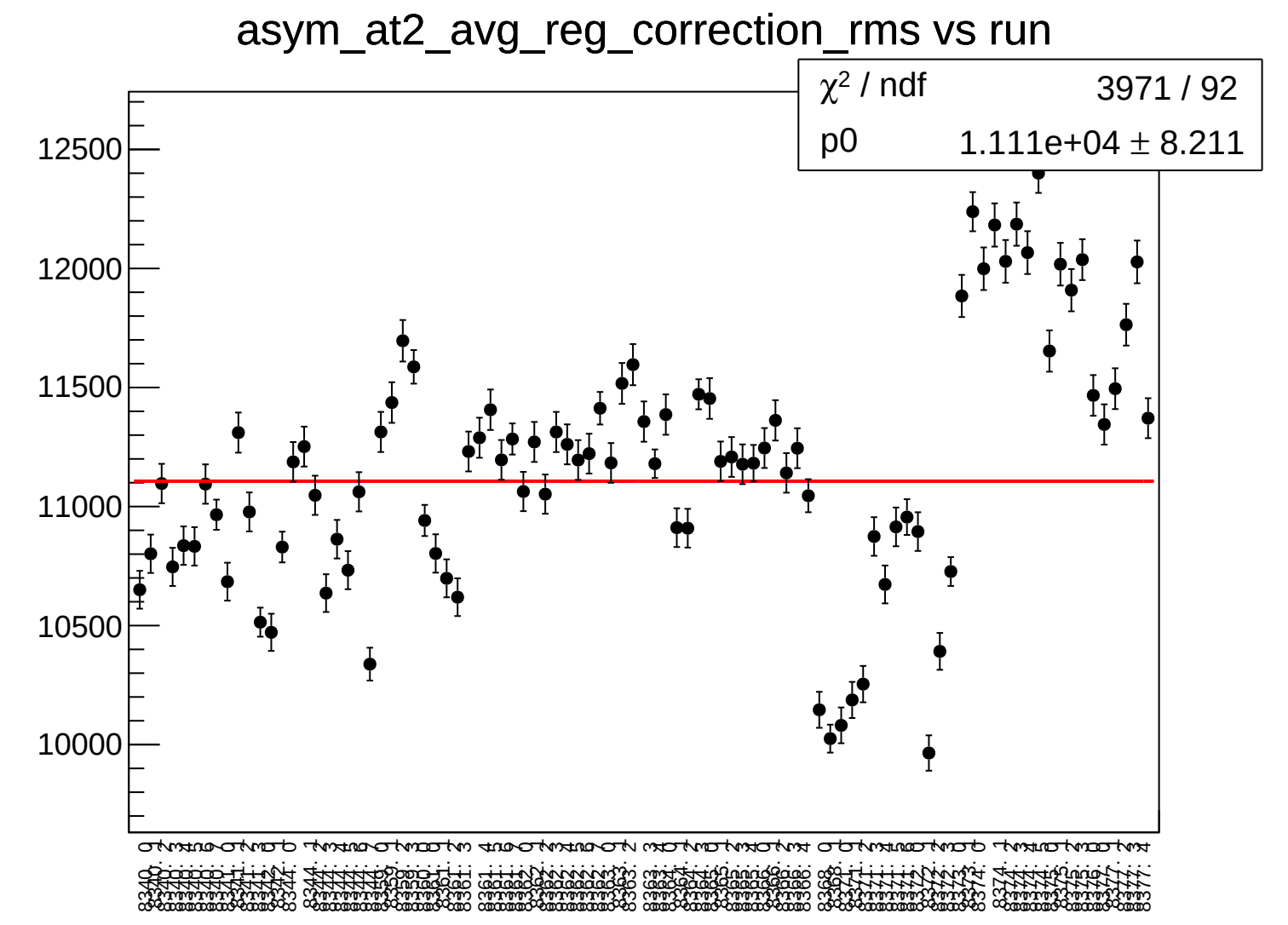

reg_asym_at2_avg_mean vs run
χ² / ndf 86.22 / 92
p0 626.7 ± 1968
pull
Entries 93
Mean 268.6
Std Dev 0

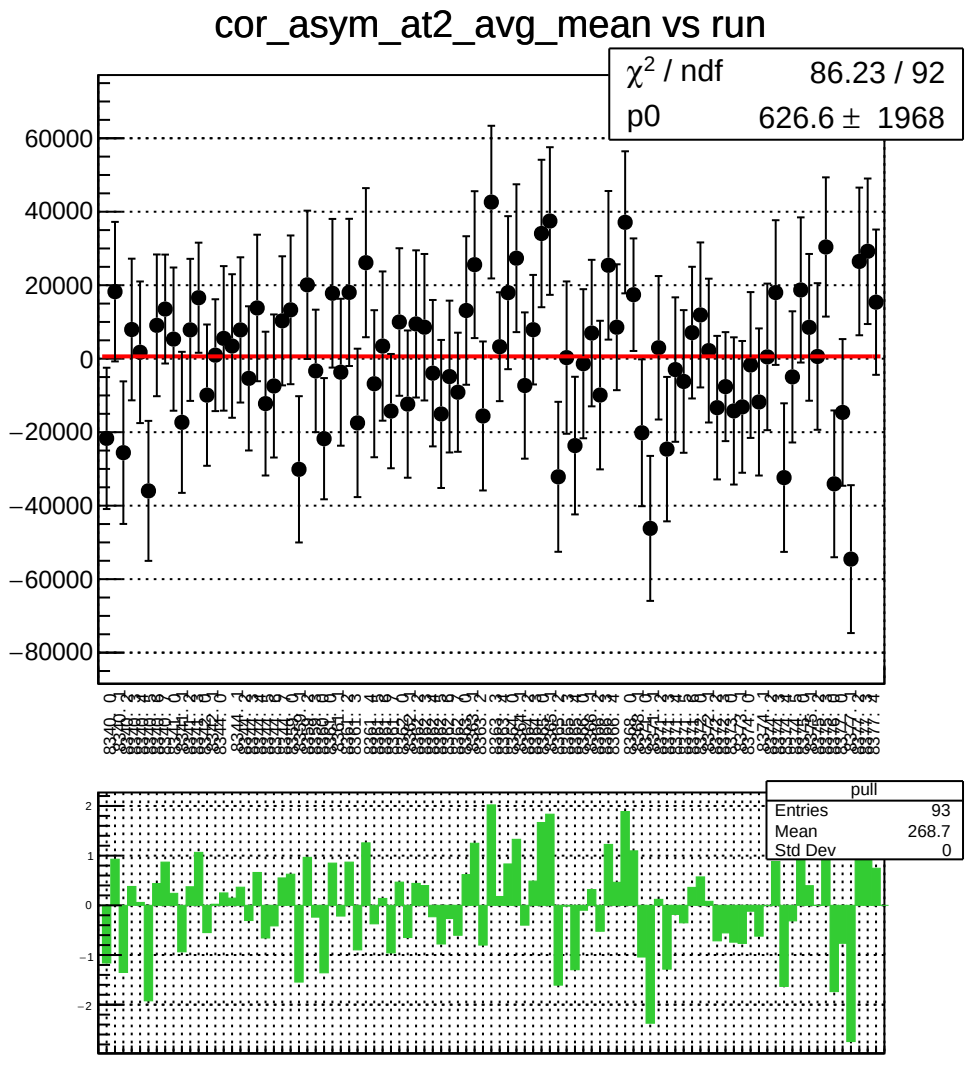

pull1D
Entries 93
Mean −0.001381
Std Dev 0.9629

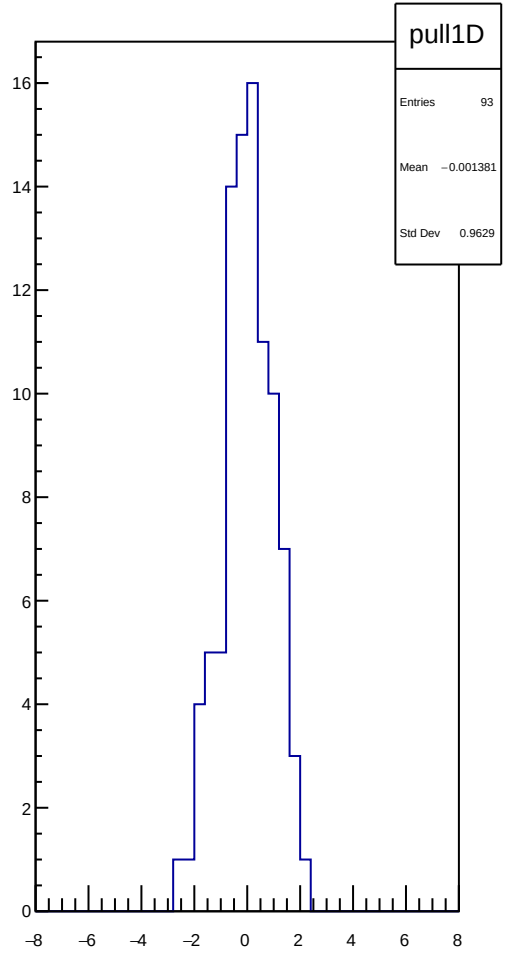

reg_asym_at2_avg_rms vs run
χ² / ndf 822.6 / 92
p0 1884 ± 1.392
2000
1950
1900
1850
1800

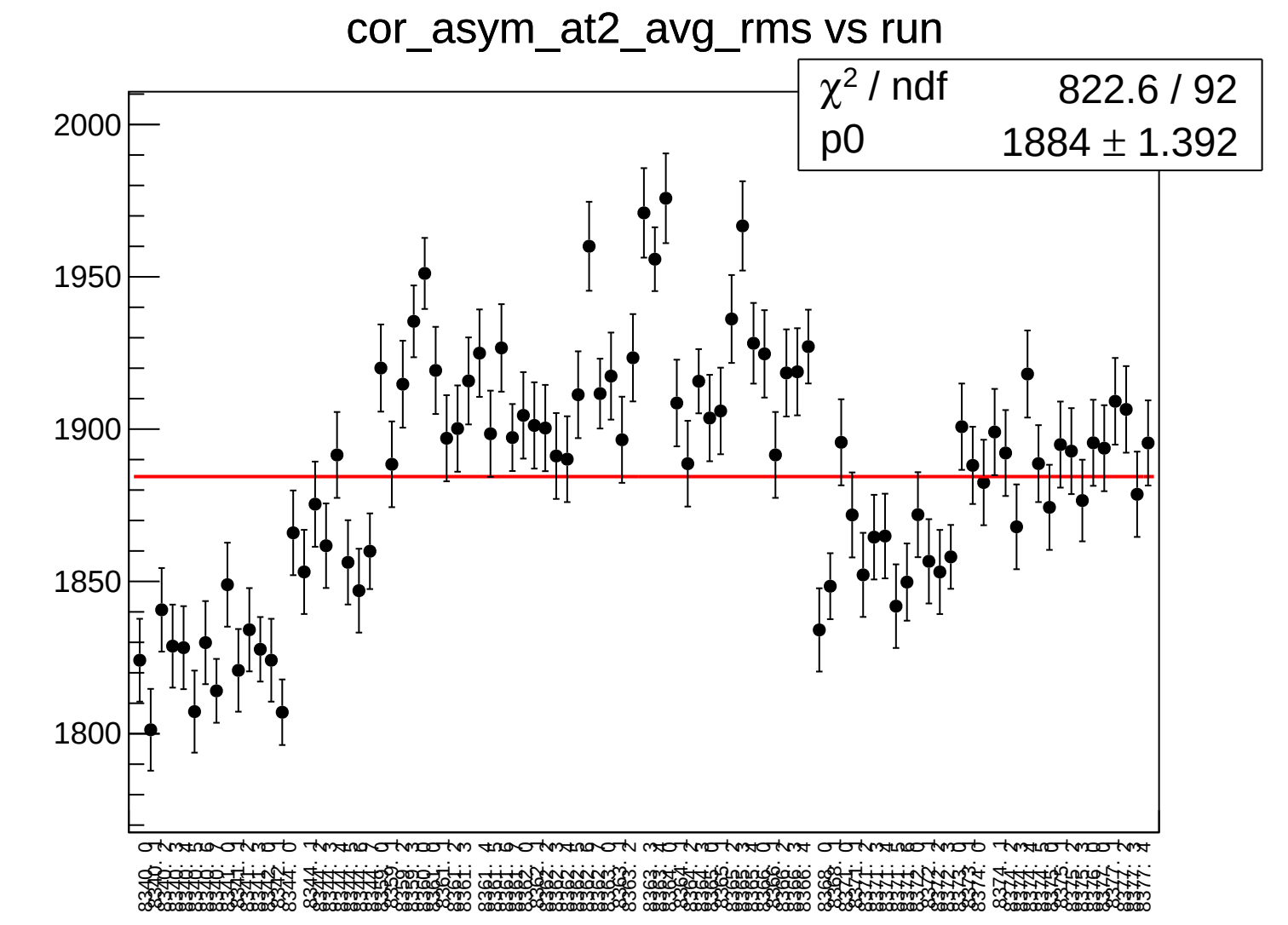

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −1.943e+04 ± 1.161e+04
400
200
0
−200
−400
pull
Entries 93
Mean −327.6
Std Dev 0
3
2
1
0
−1
−2

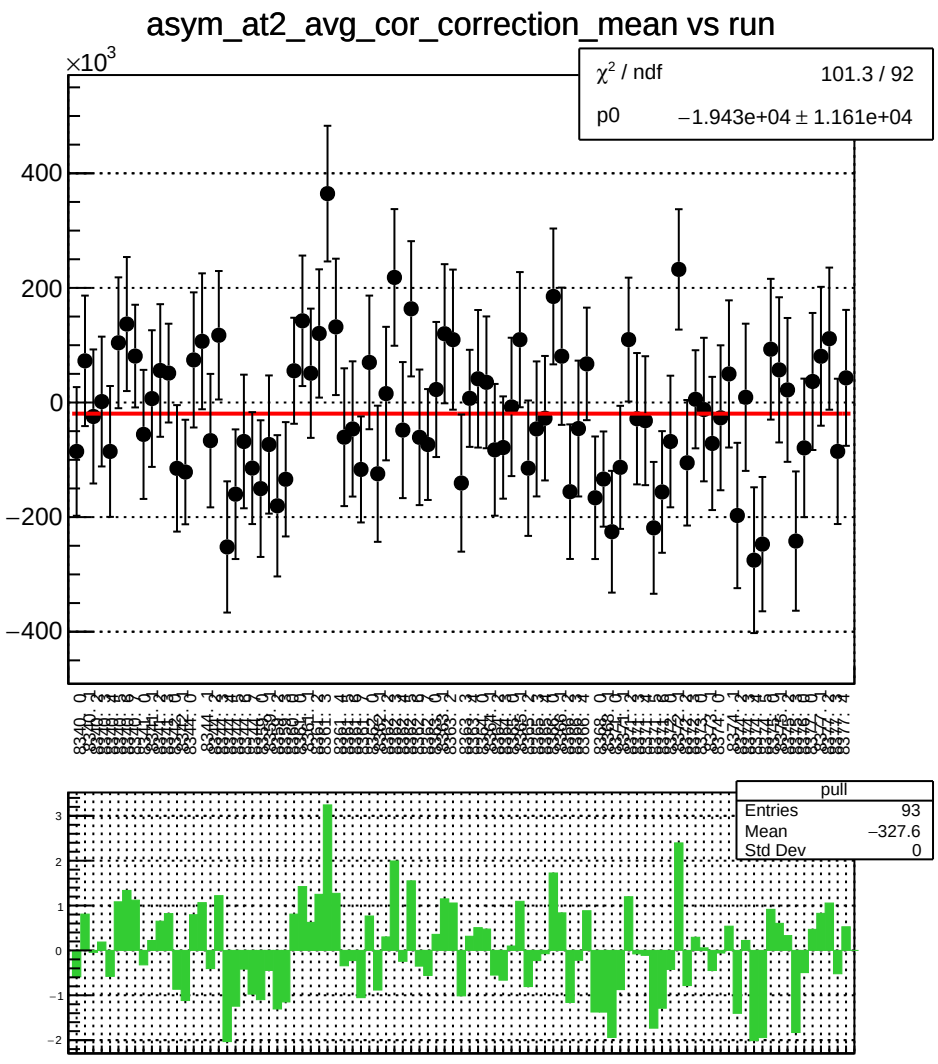

pull1D
Entries 93
Mean 0.009172
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

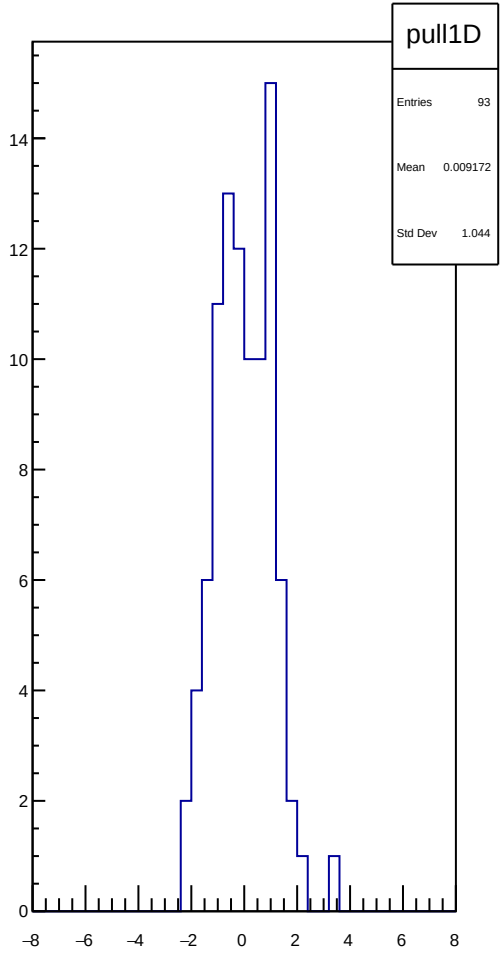

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 3971 / 92
p0 1.111e+04 ± 8.211
12500
12000
11500
11000
10500
10000

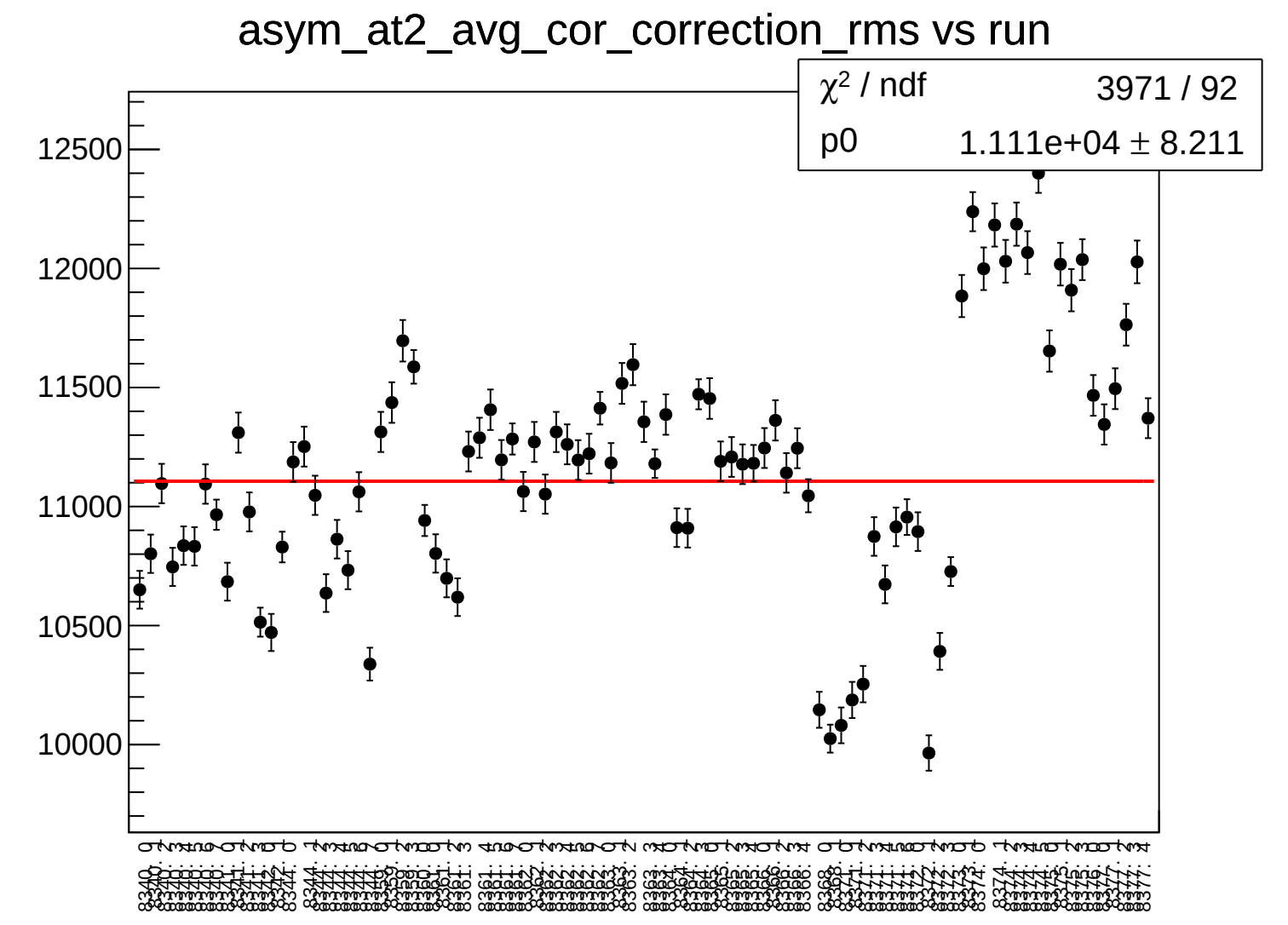

cor_asym_at2_avg_mean vs run
χ² / ndf 86.23 / 92
p0 626.6 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 268.7
Std Dev 0
2
1
0
−1
−2

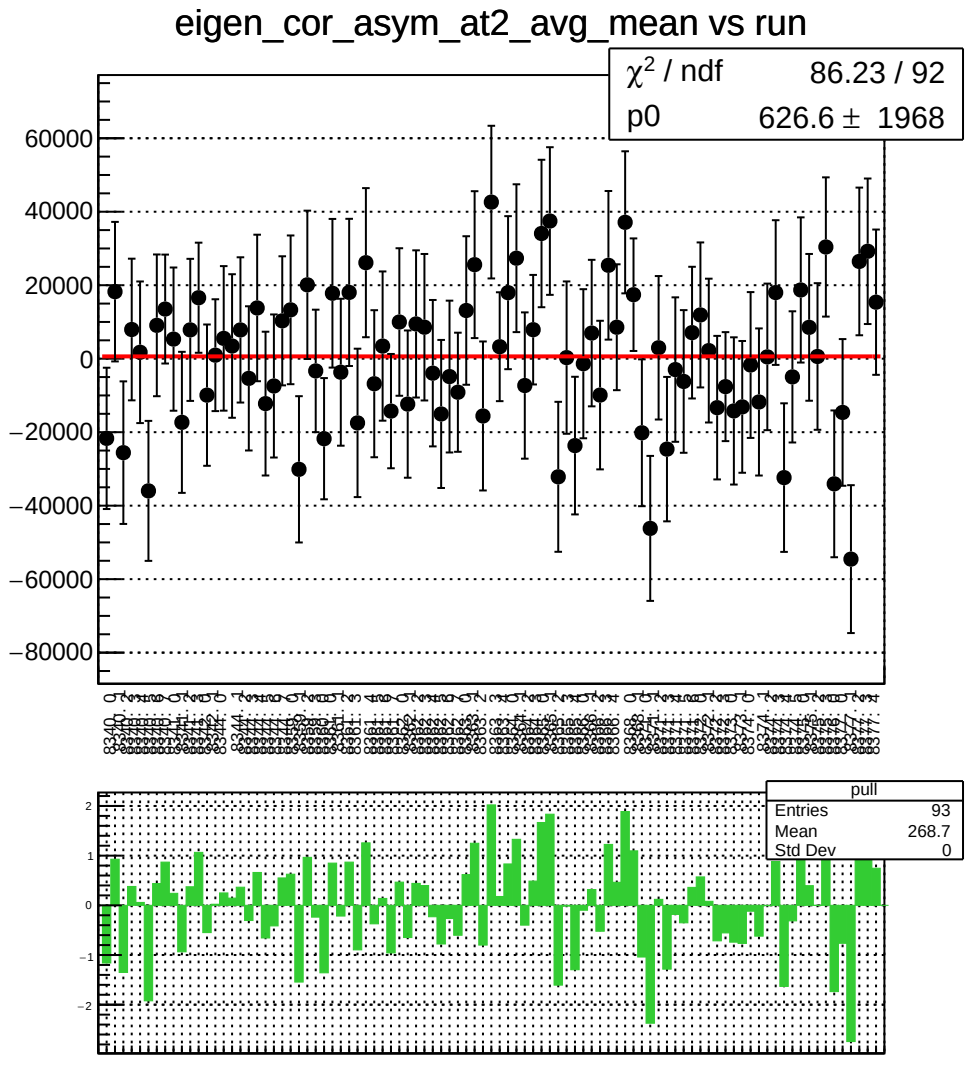

pull1D
Entries 93
Mean −0.001381
Std Dev 0.9629
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

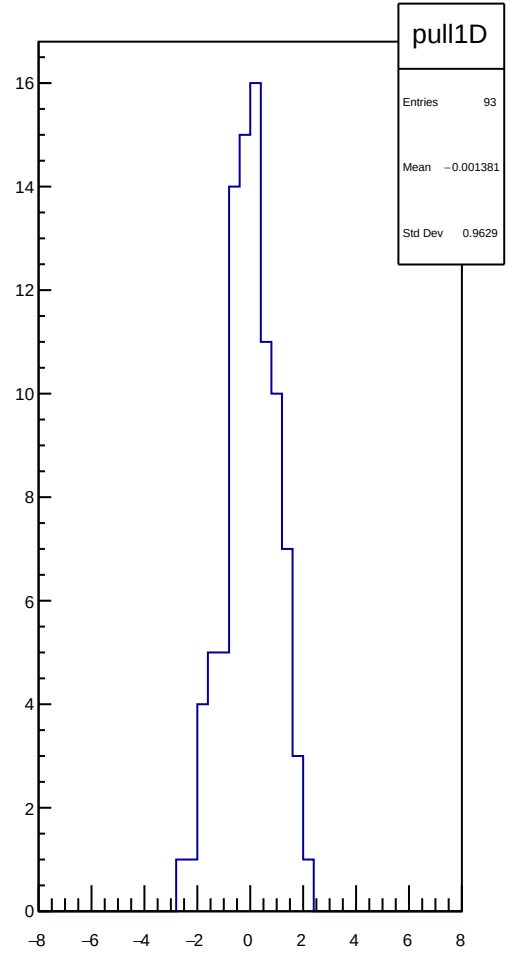

cor_asym_at2_avg_rms vs run
χ^2 / ndf 822.6 / 92
p0 1884 ± 1.392
2000
1950
1900
1850
1800

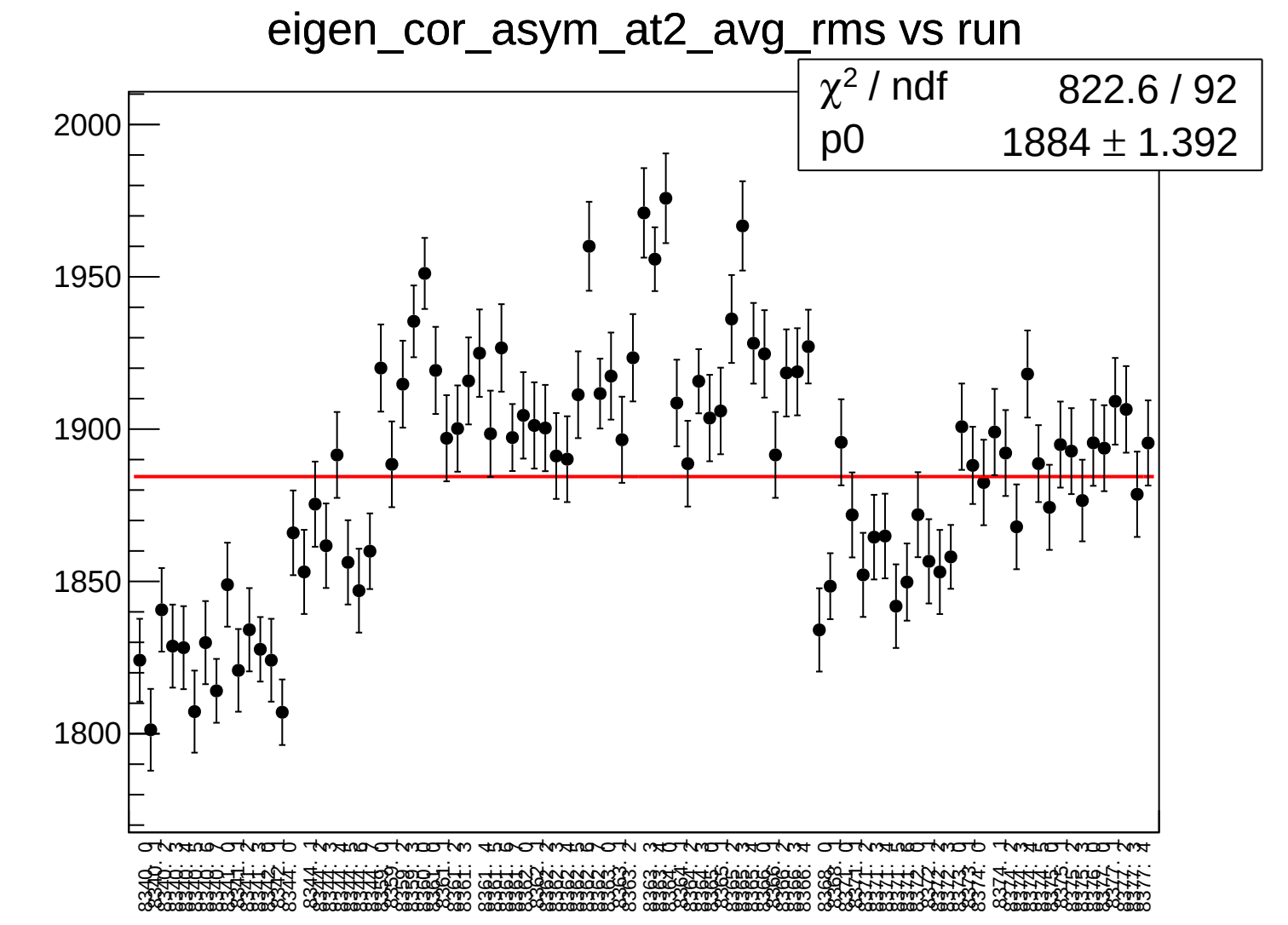

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −1.943e+04 ± 1.161e+04
400
200
0
−200
−400
pull
Entries 93
Mean −327.6
Std Dev 0
3
2
1
0
−1
−2

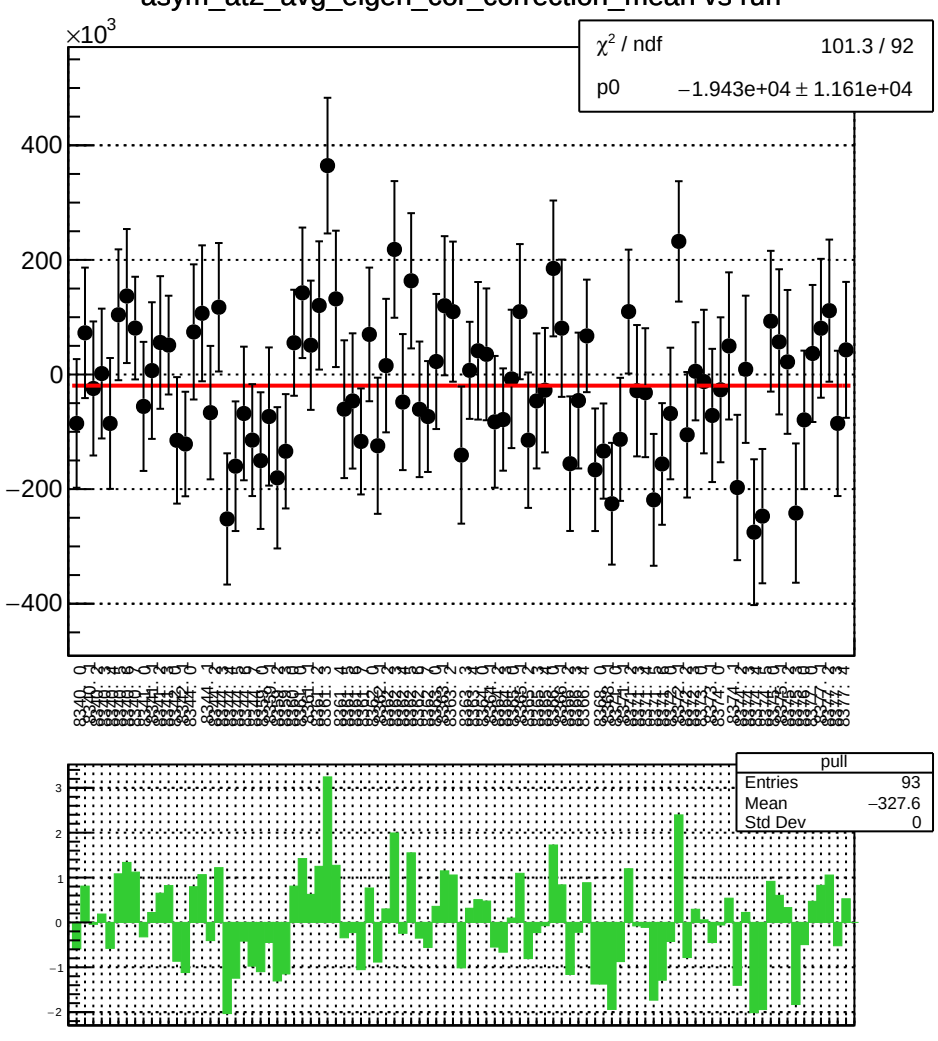

pull1D
Entries 93
Mean 0.009172
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

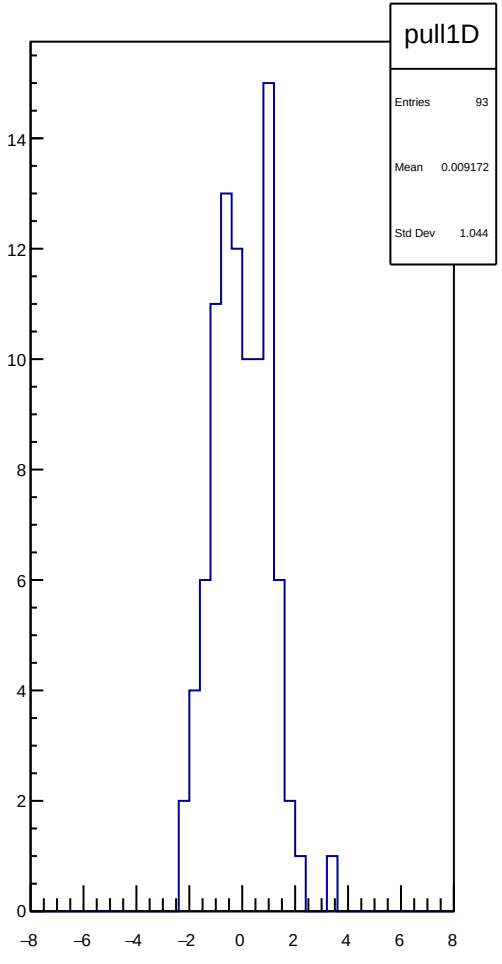

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 3971 / 92
p0 1.111e+04 ± 8.211
12500
12000
11500
11000
10500
10000

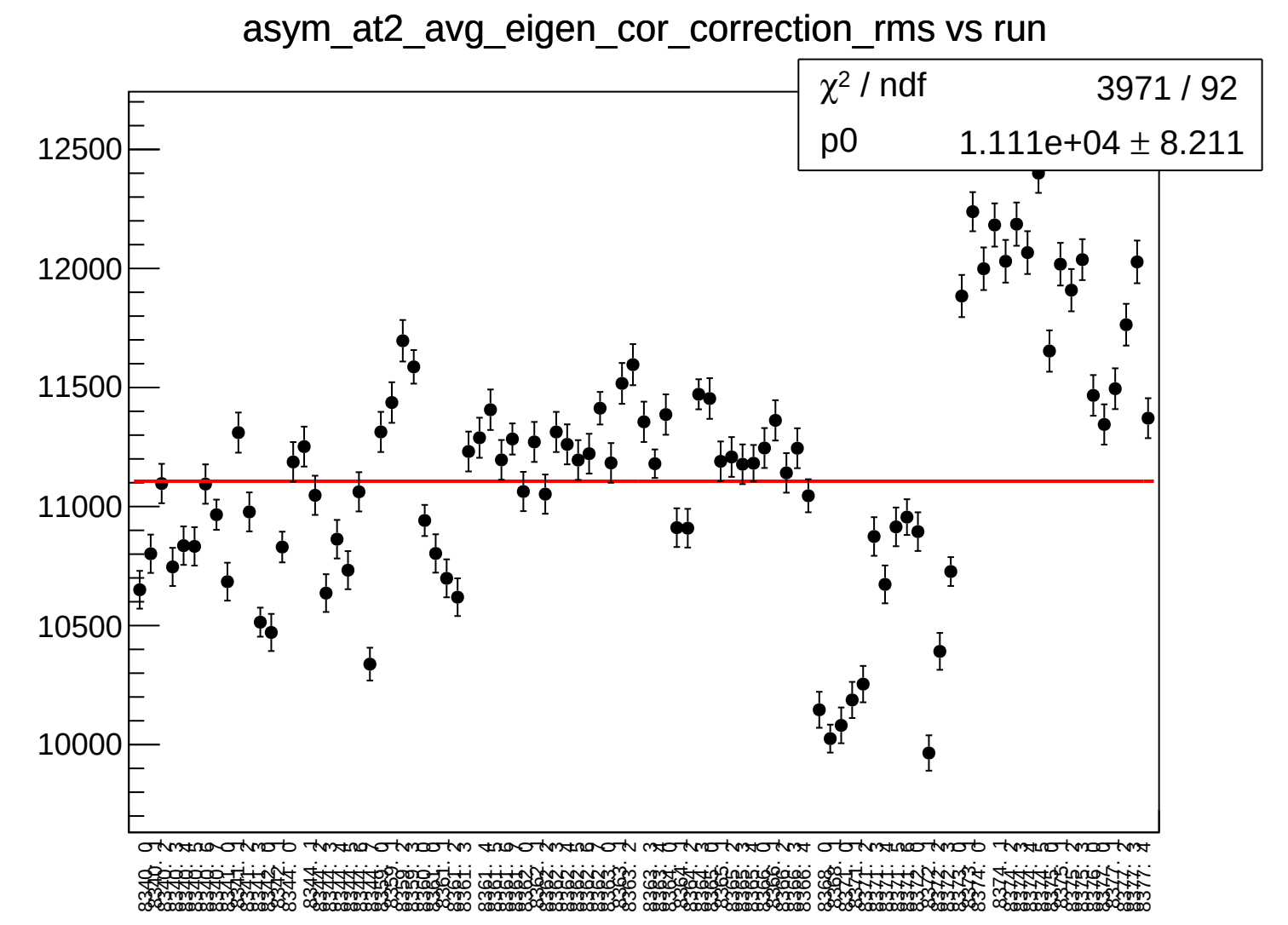

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 86.23 / 92
p0 626.6 ± 1968
pull
Entries 93
Mean 268.7
Std Dev 0

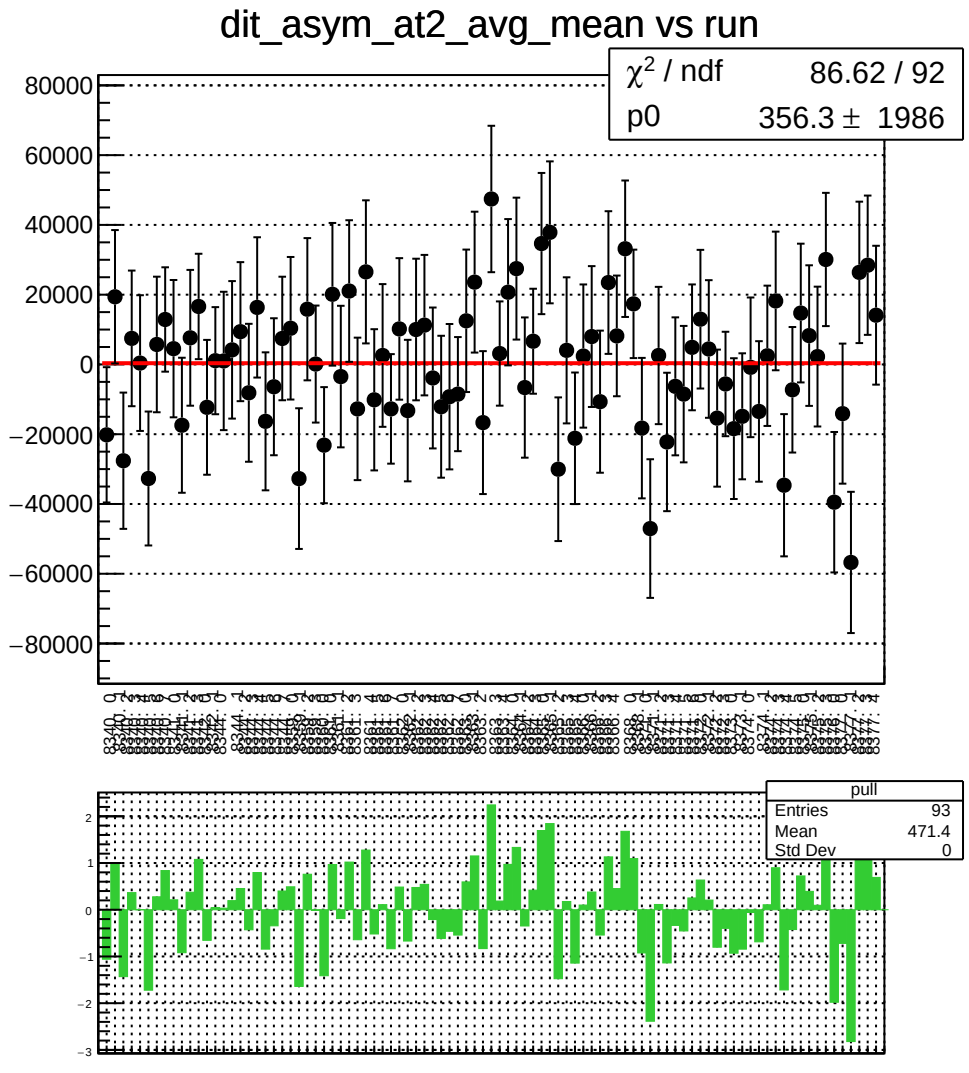

pull1D
Entries 93
Mean −0.001381
Std Dev 0.9629

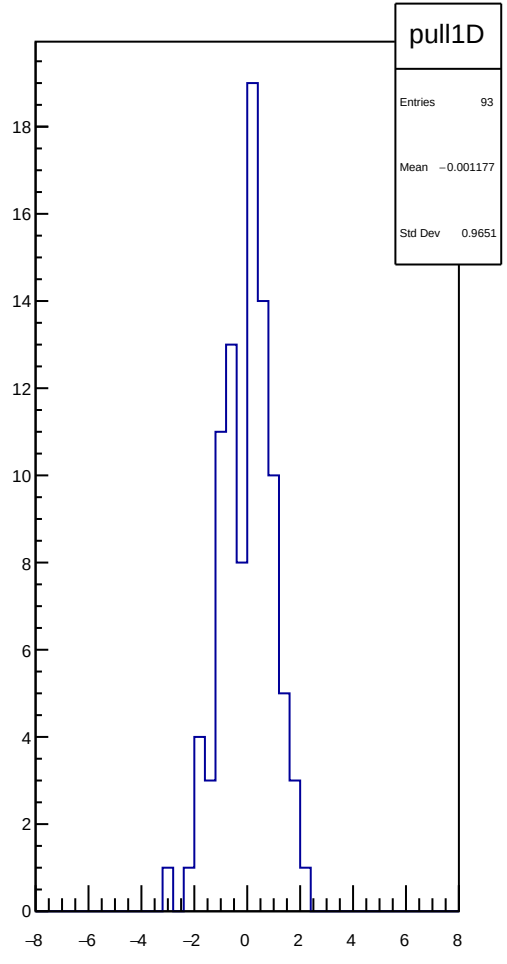

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 822.6 / 92
p0 1884 ± 1.392
2000
1950
1900
1850
1800

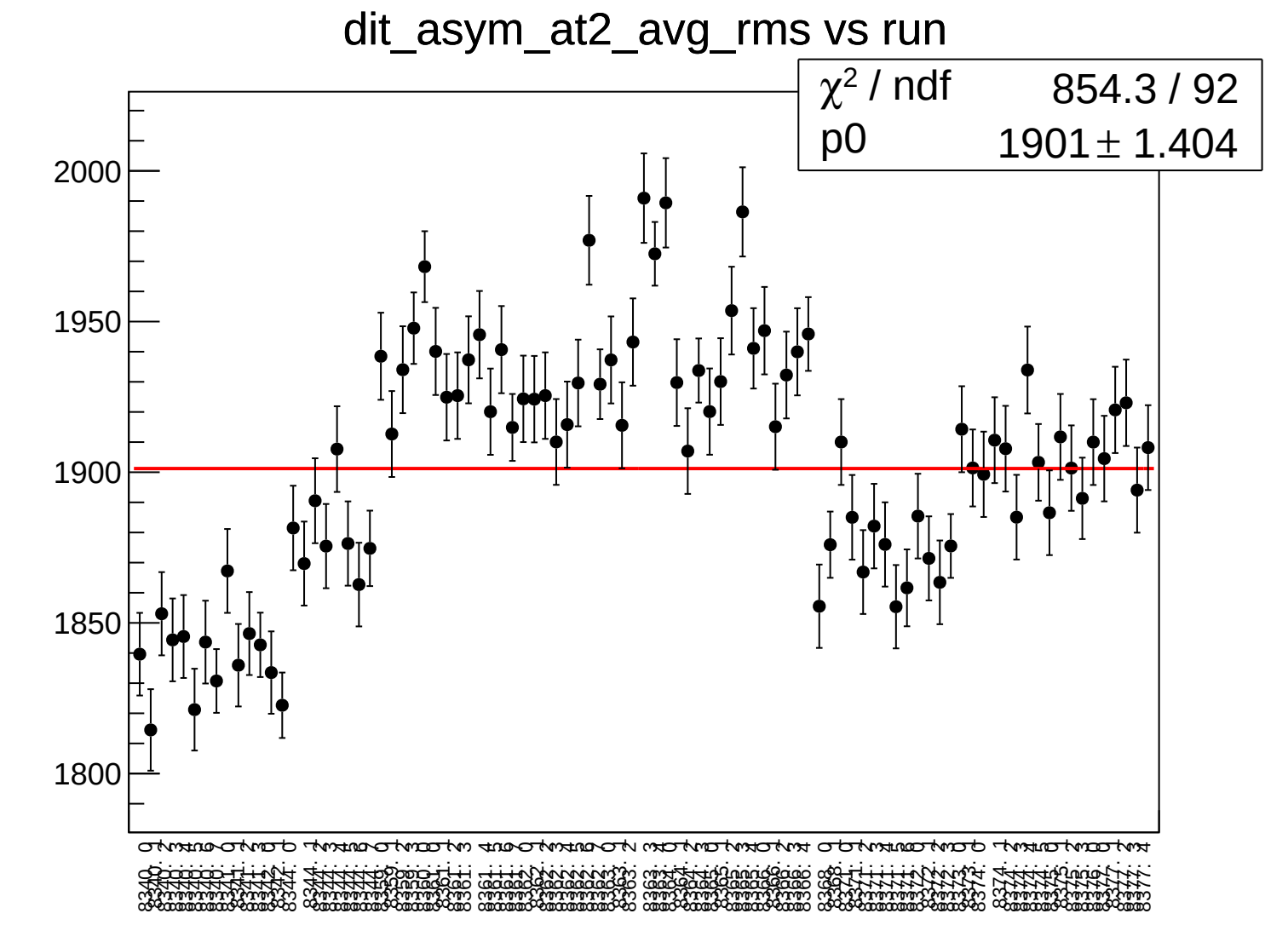

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −1.943e+04 ± 1.161e+04
400
200
0
−200
−400
pull
Entries 93
Mean −327.6
Std Dev 0
3
2
1
0
−1
−2

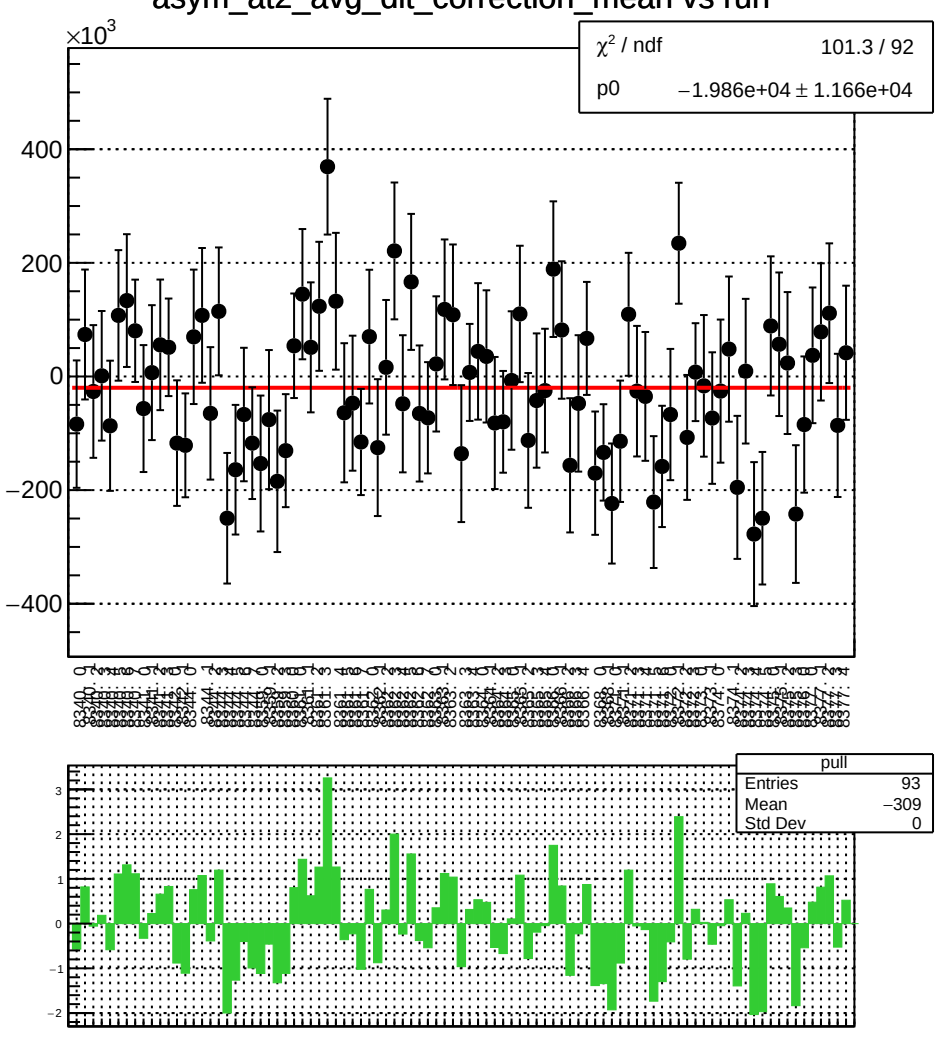

pull1D
Entries 93
Mean 0.009172
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

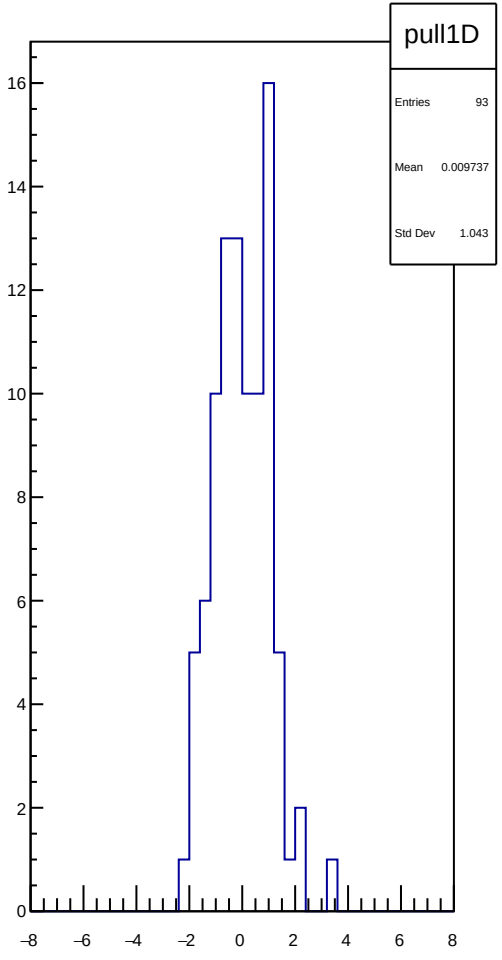

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3971 / 92
p0 1.111e+04 ± 8.211
12500
12000
11500
11000
10500
10000

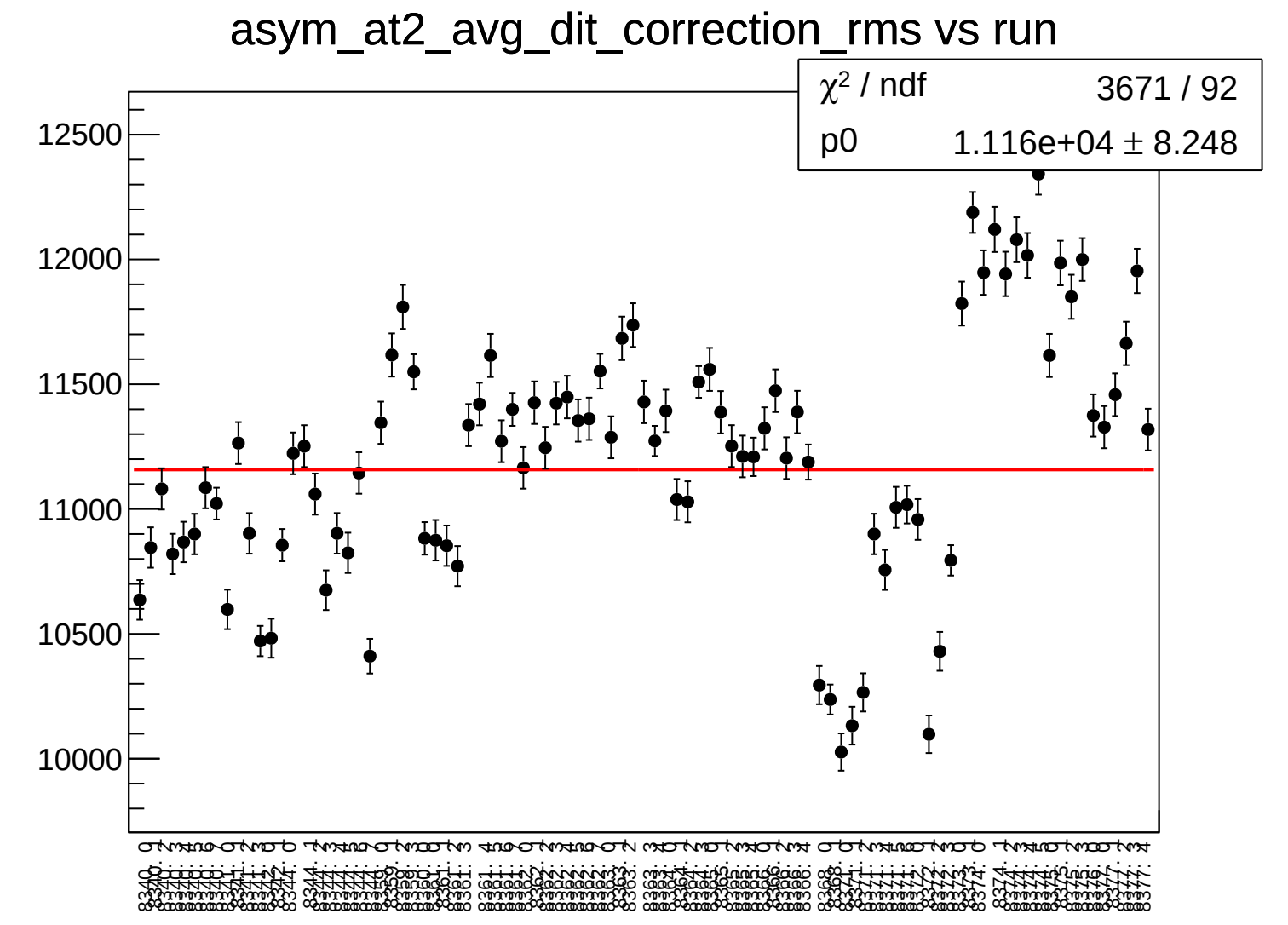

dit_asym_at2_avg_mean vs run
χ² / ndf 86.62 / 92
p0 356.3 ± 1986
pull
Entries 93
Mean 471.4
Std Dev 0

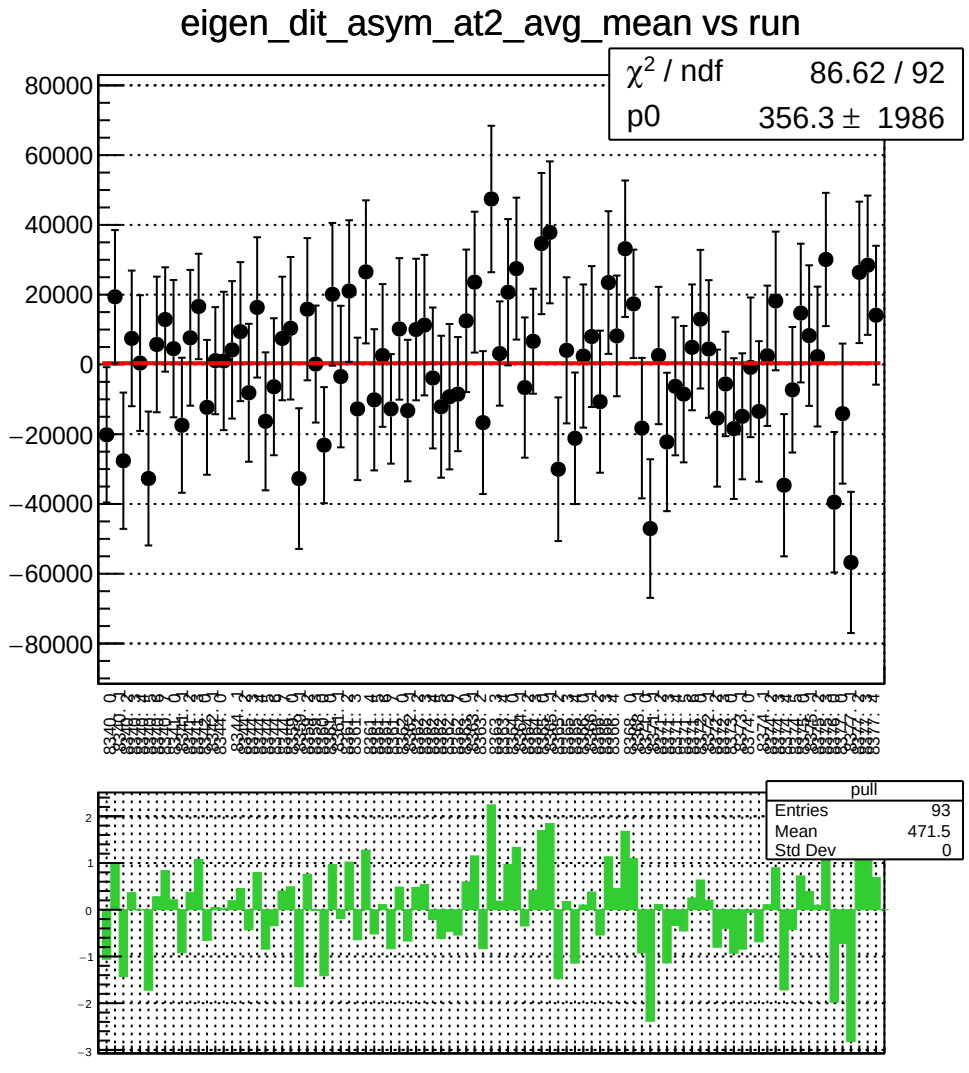

pull1D
Entries 93
Mean −0.001177
Std Dev 0.9651

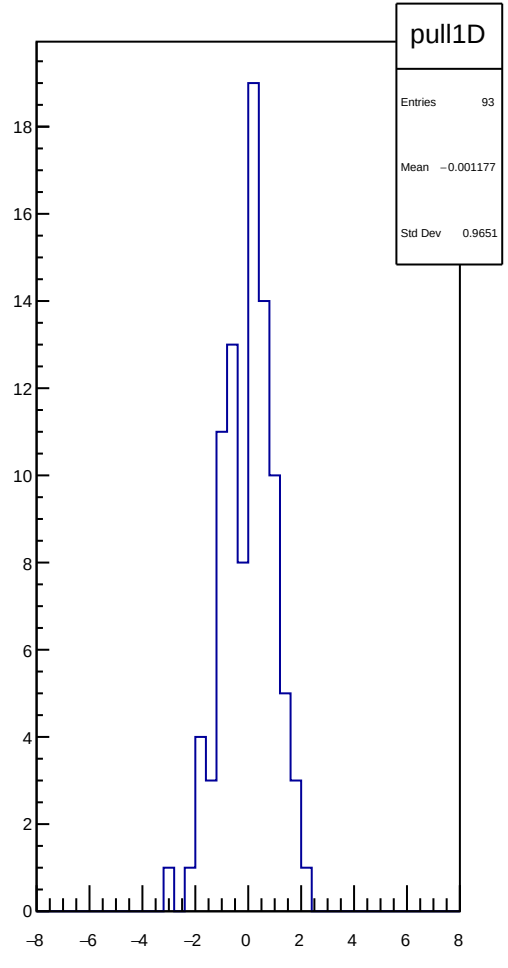

dit_asym_at2_avg_rms vs run
χ² / ndf 854.3 / 92
p0 1901 ± 1.404
2000
1950
1900
1850
1800

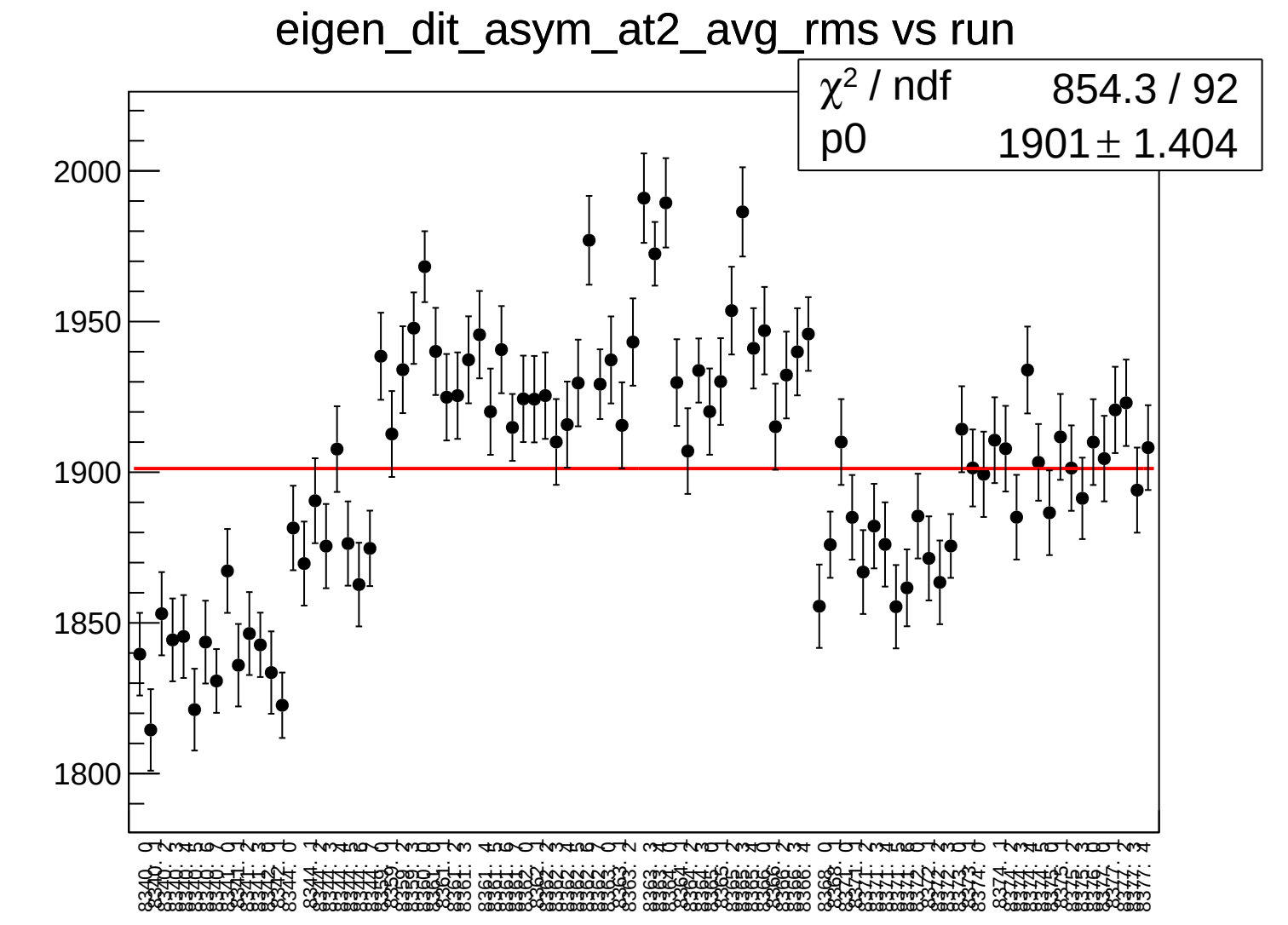

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −1.986e+04 ± 1.166e+04
400
200
0
−200
−400
pull
Entries 93
Mean −309
Std Dev 0
3
2
1
0
−1
−2

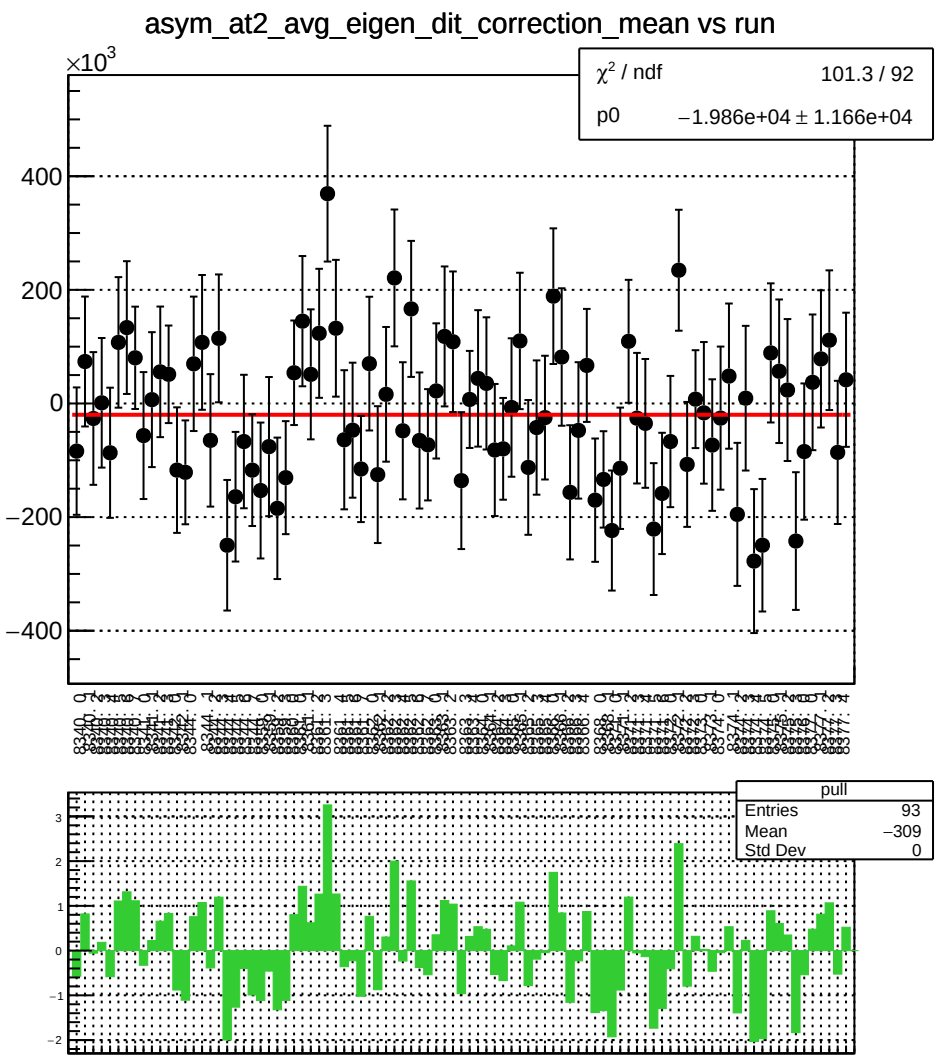

pull1D
Entries 93
Mean 0.009737
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

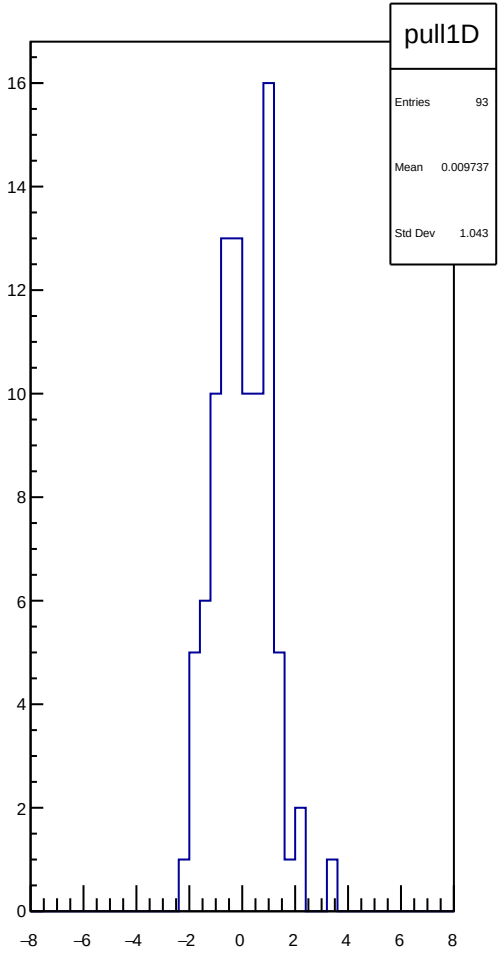

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 3671 / 92
p0 1.116e+04 ± 8.248
12500
12000
11500
11000
10500
10000

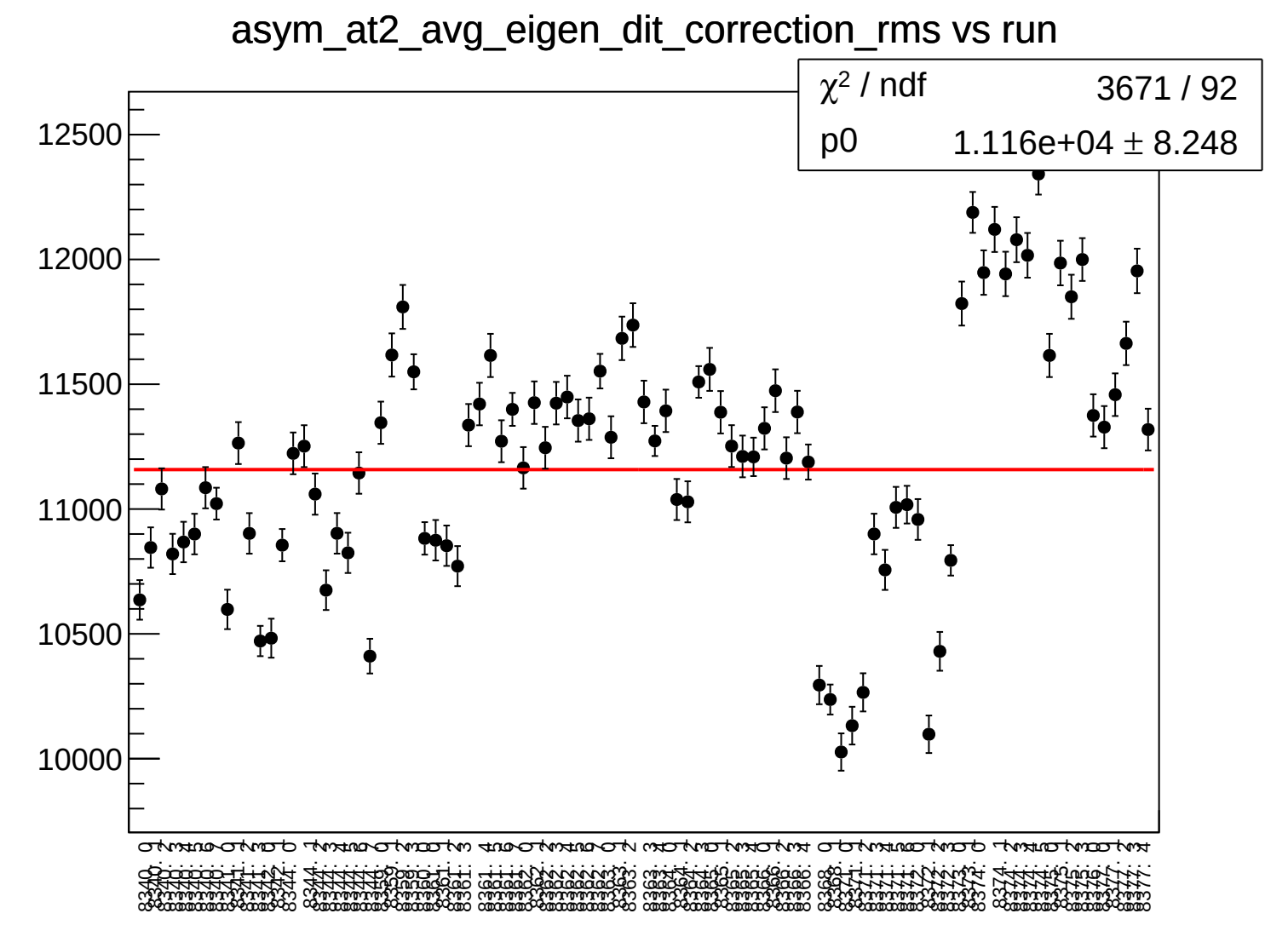

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 86.62 / 92
p0 356.3 ± 1986
pull
Entries 93
Mean 471.5
Std Dev 0

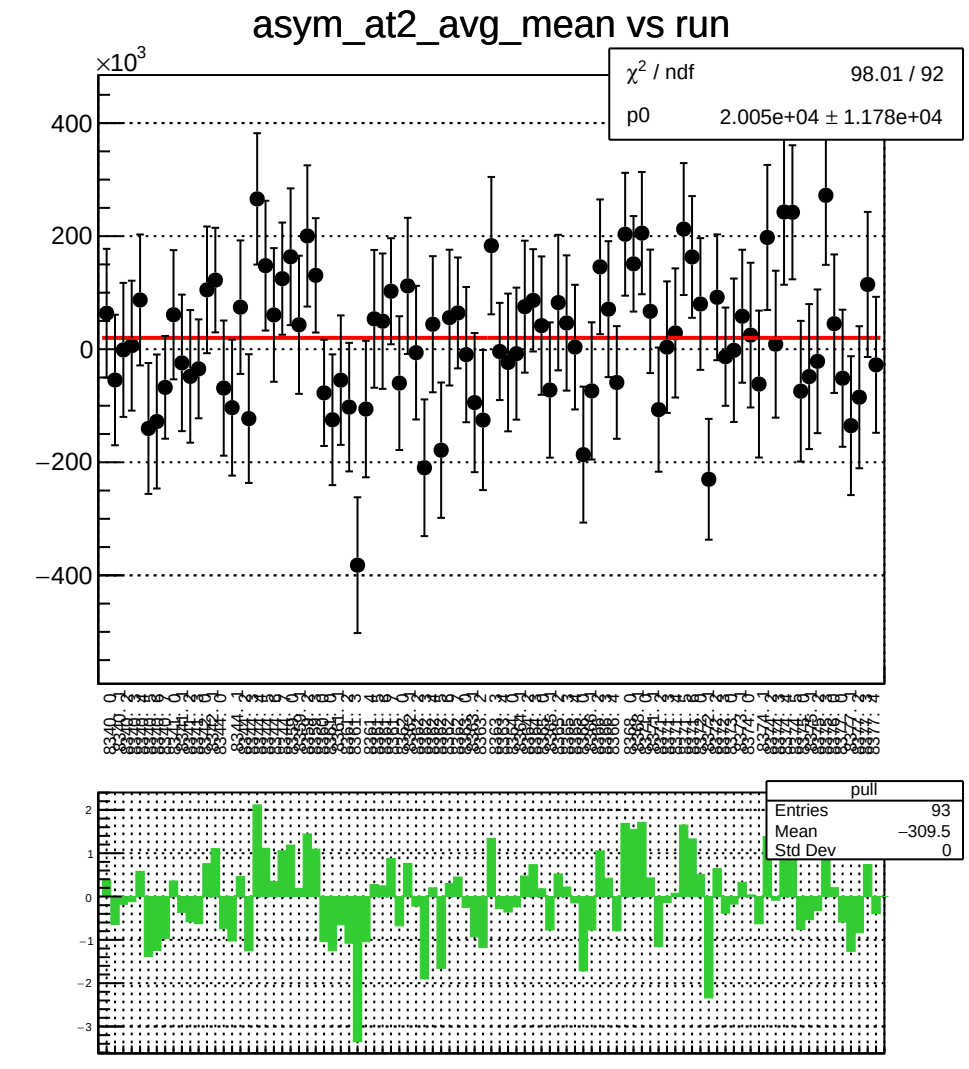

pull1D
Entries 93
Mean −0.001177
Std Dev 0.9651

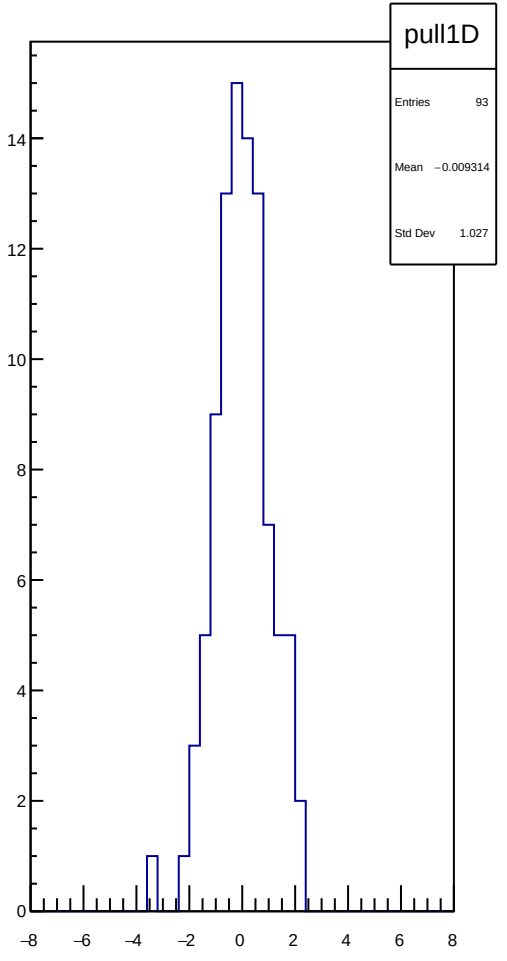

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 854.3 / 92
p0 1901 ± 1.404
2000
1950
1900
1850
1800

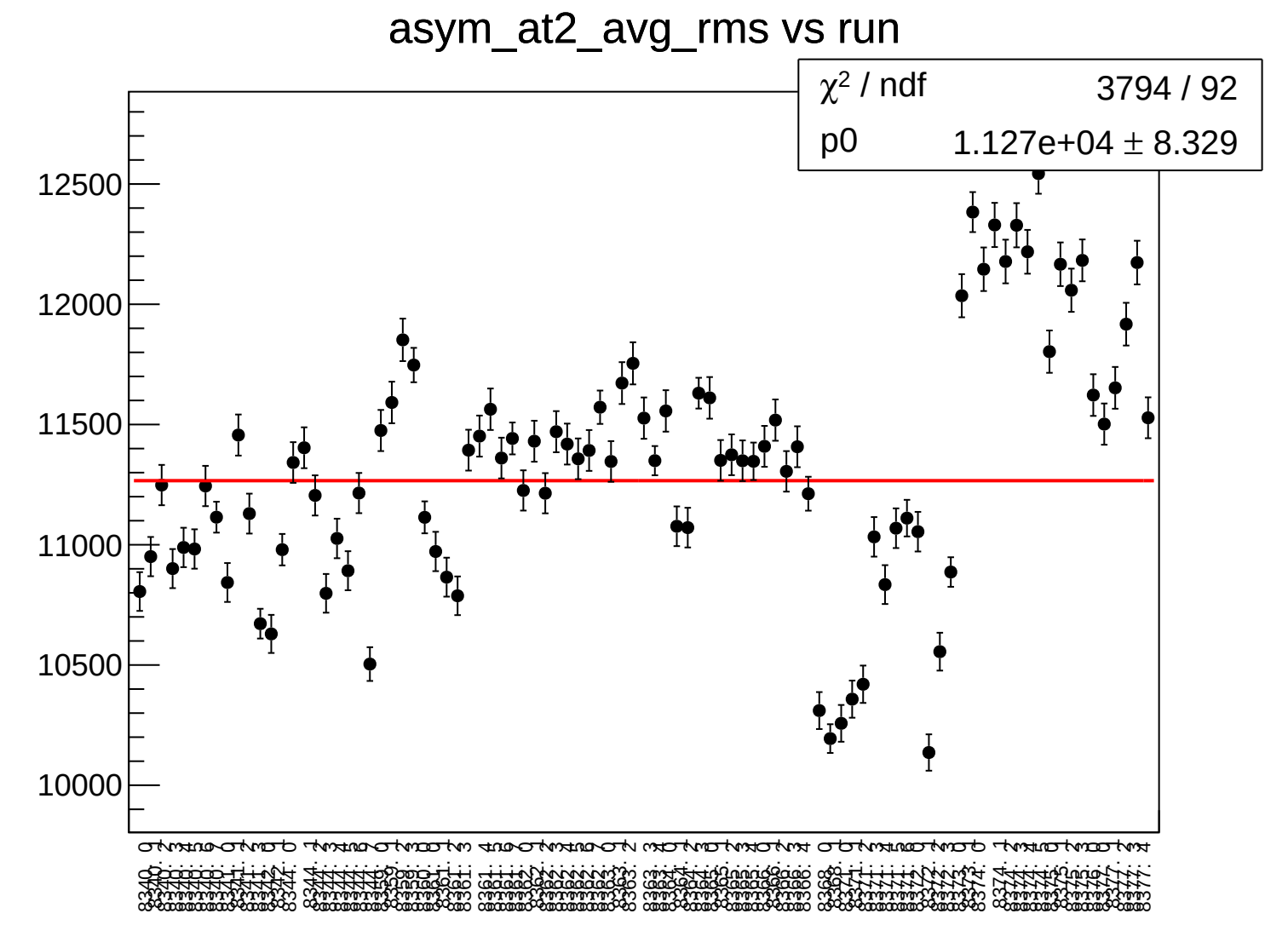

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −1.986e+04 ± 1.166e+04
400
200
0
−200
−400
pull
Entries 93
Mean −309
Std Dev 0
3
2
1
0
−1
−2

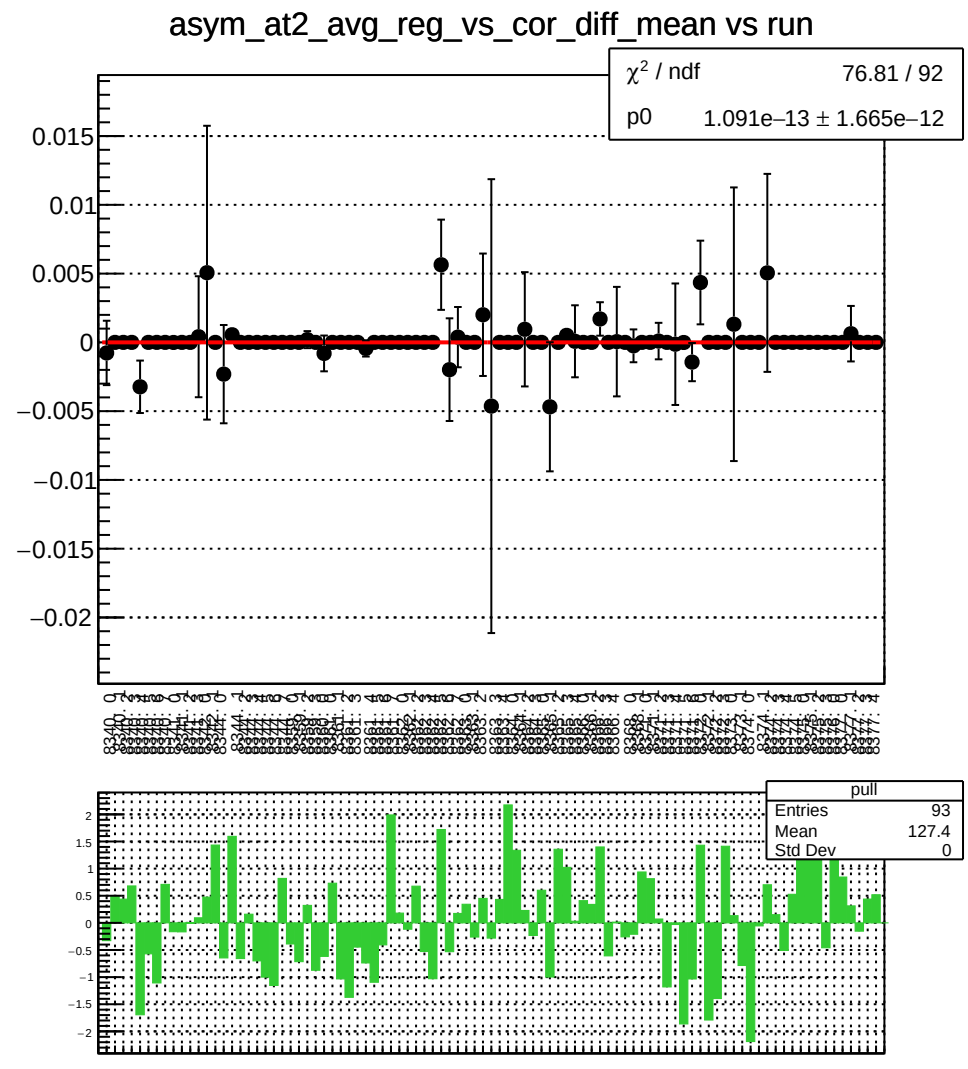

pull1D
Entries 93
Mean 0.009737
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

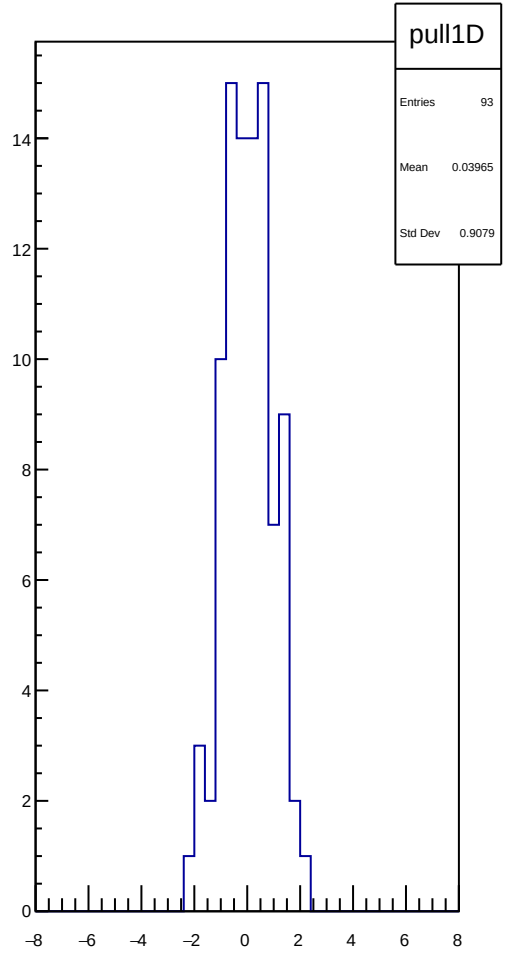

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3671 / 92
p0 1.116e+04 ± 8.248
12500
12000
11500
11000
10500
10000

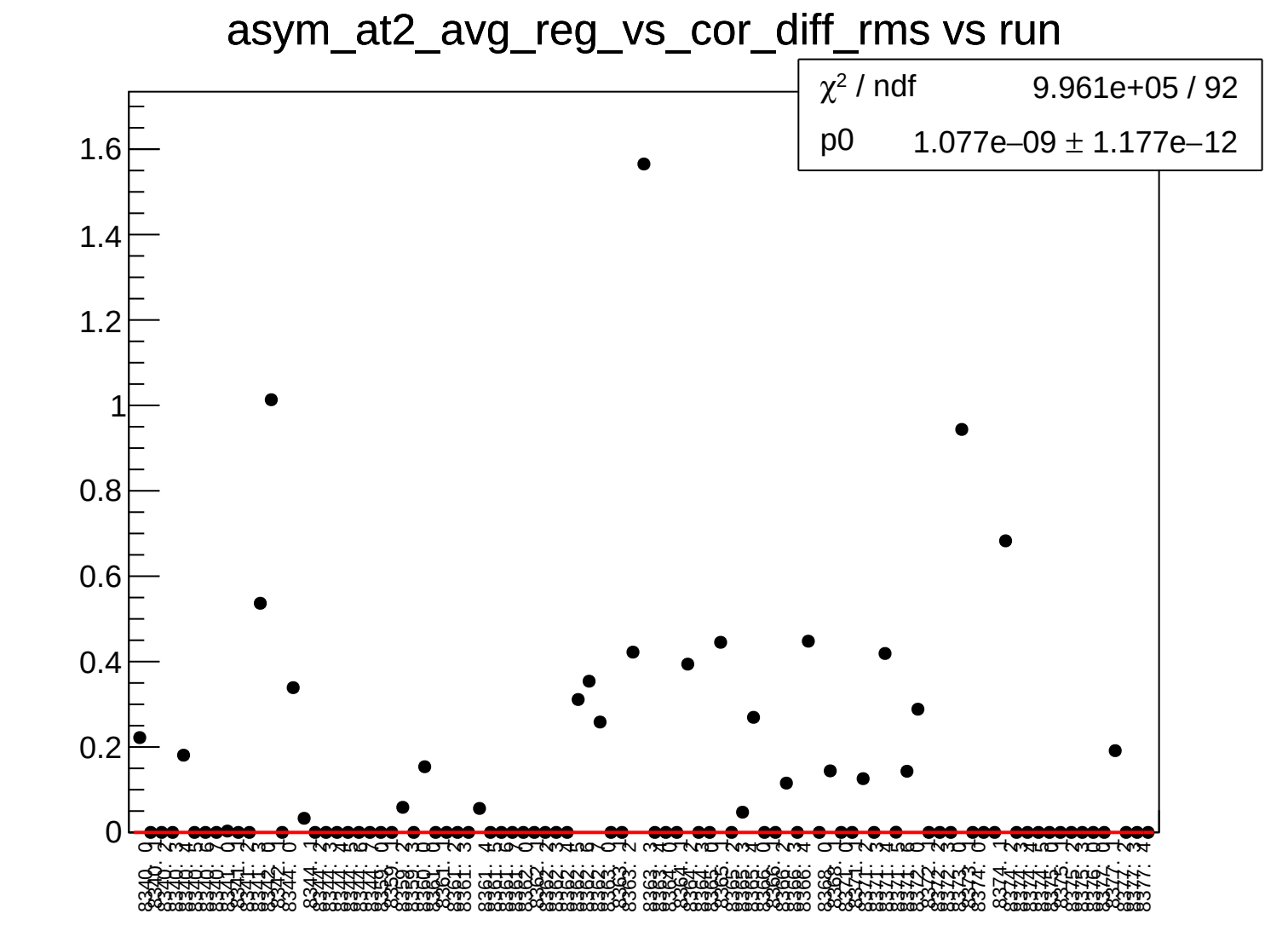

asym_at2_avg_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 98.01 / 92
p0 2.005e+04 ± 1.178e+04
pull
Entries 93
Mean −309.5
Std Dev 0
2
1
0
−1
−2
−3

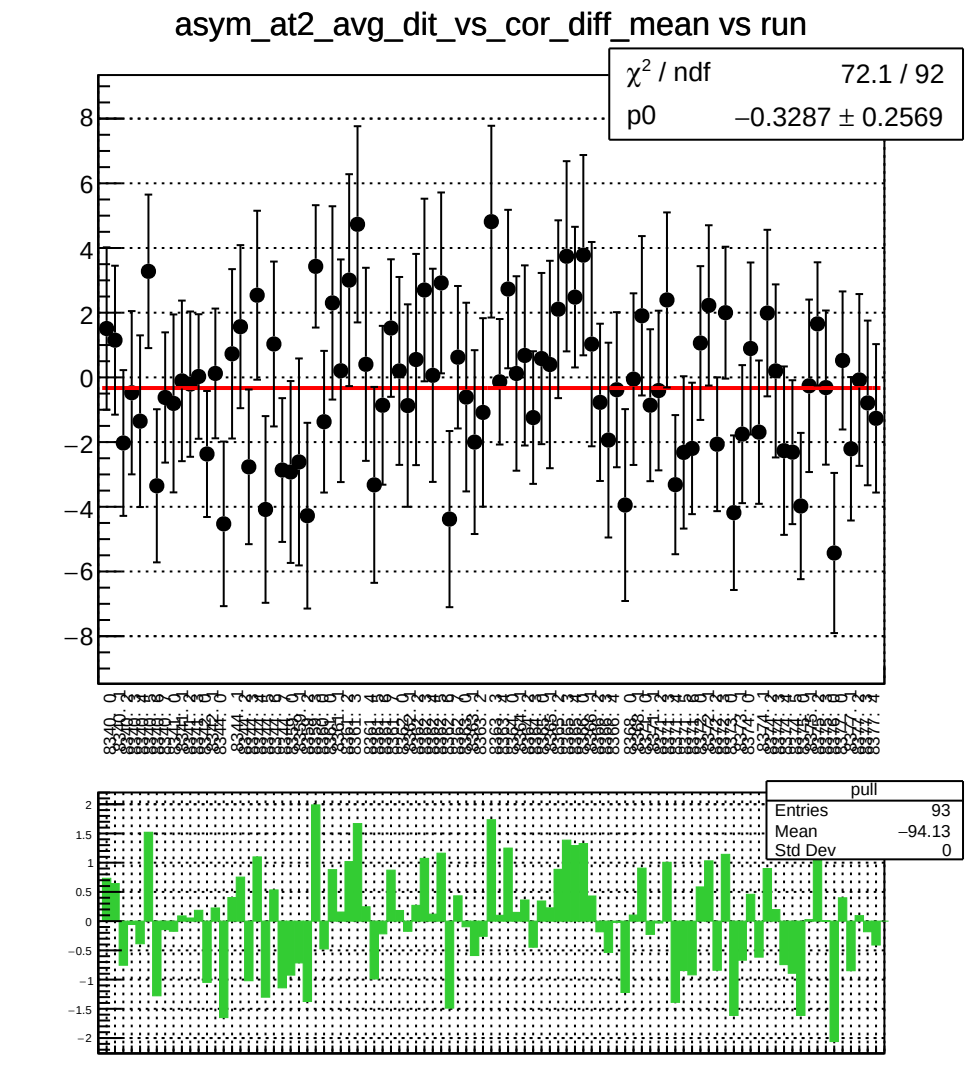

pull1D
Entries 93
Mean −0.009314
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

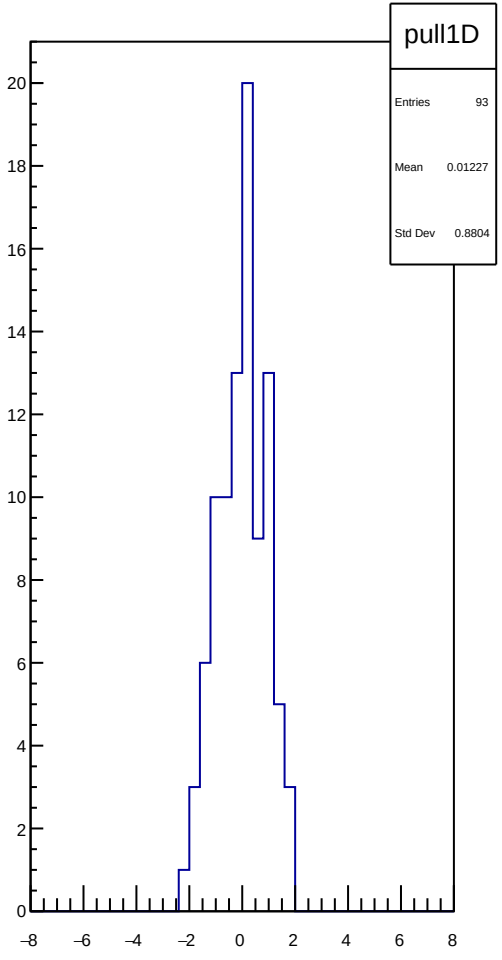

asym_at2_avg_rms vs run
χ² / ndf 3794 / 92
p0 1.127e+04 ± 8.329
12500
12000
11500
11000
10500
10000

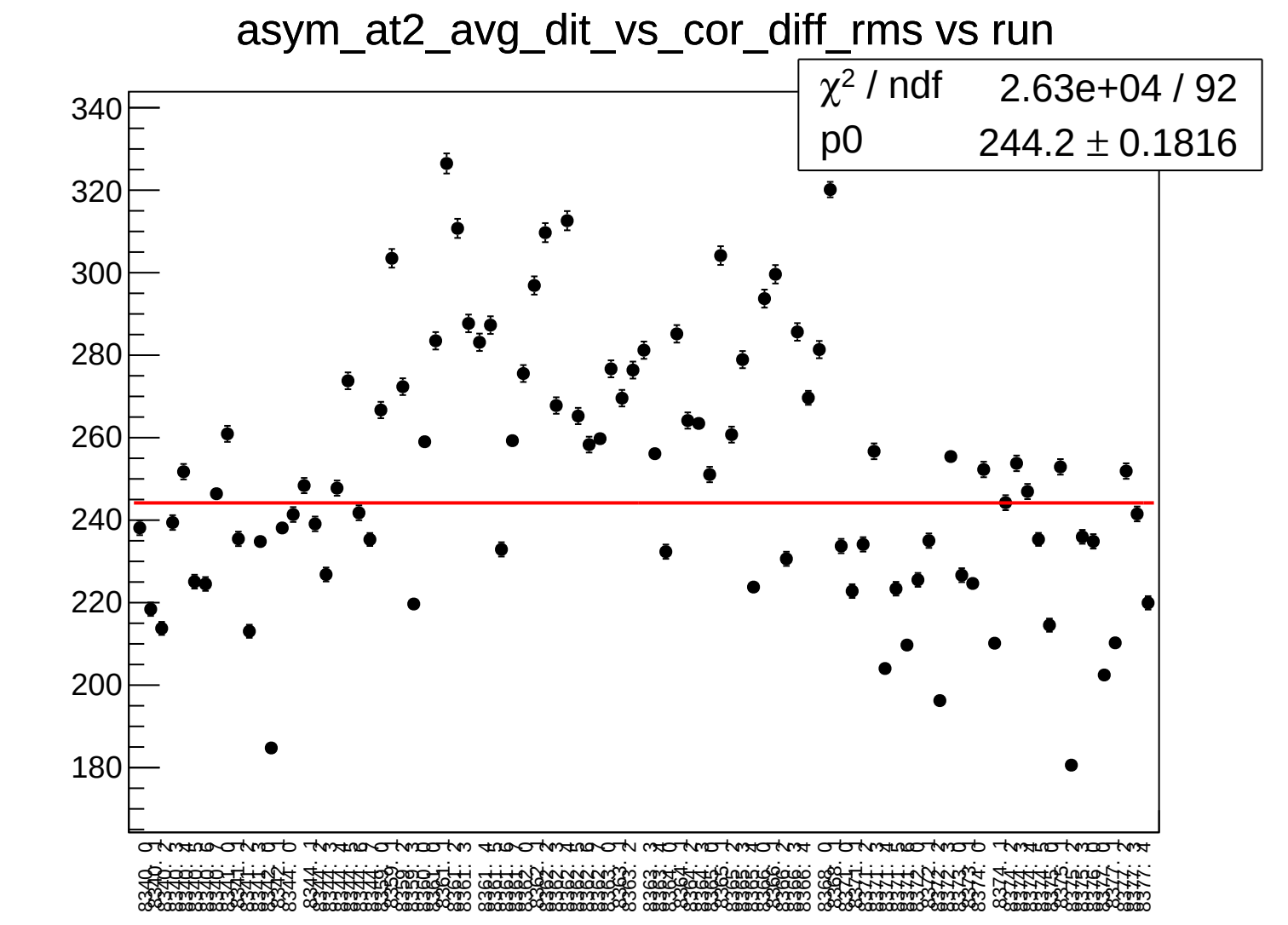

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.81 / 92
p0 1.091e−13 ± 1.665e−12
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 127.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

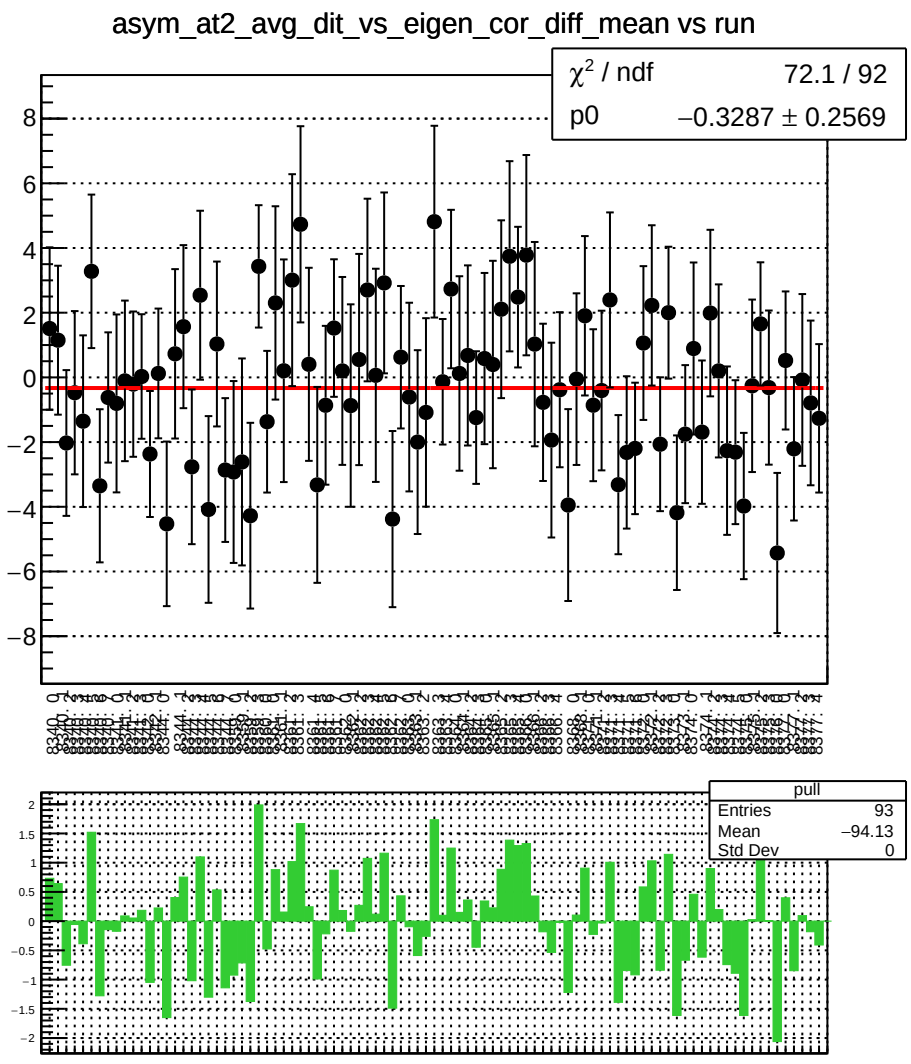

pull1D
Entries 93
Mean 0.03965
Std Dev 0.9079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

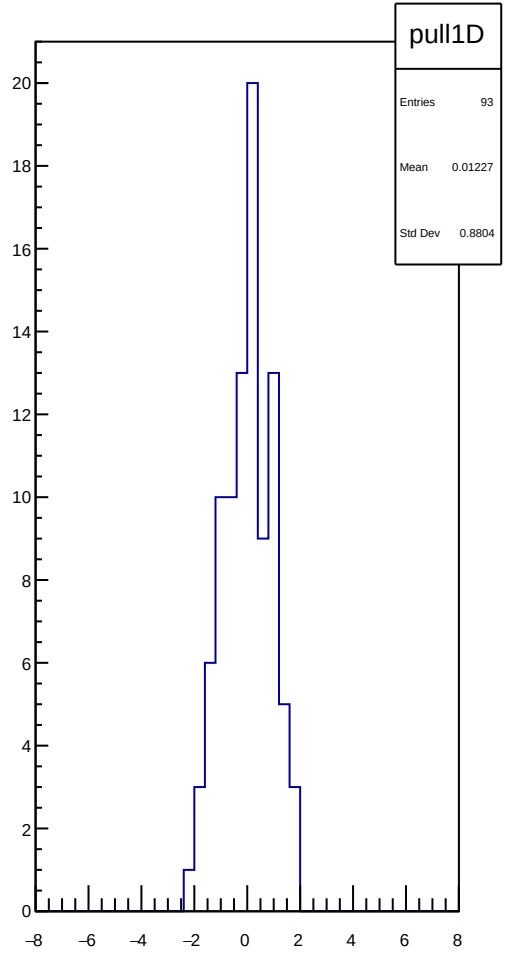

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.961e+05 / 92
p0 1.077e−09 ± 1.177e−12
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

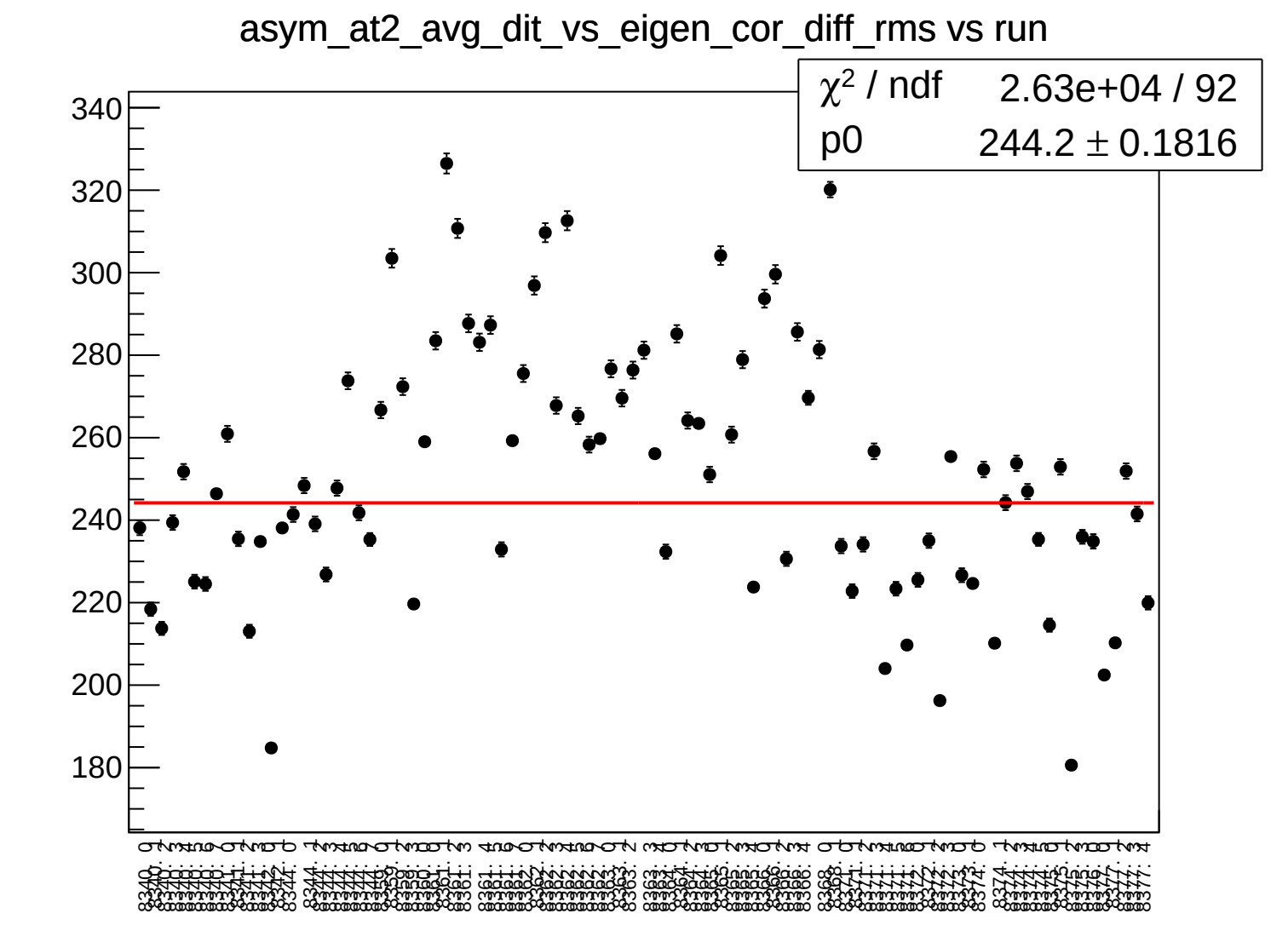

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.1 / 92
p0 −0.3287 ± 0.2569
pull
Entries 93
Mean −94.13
Std Dev 0

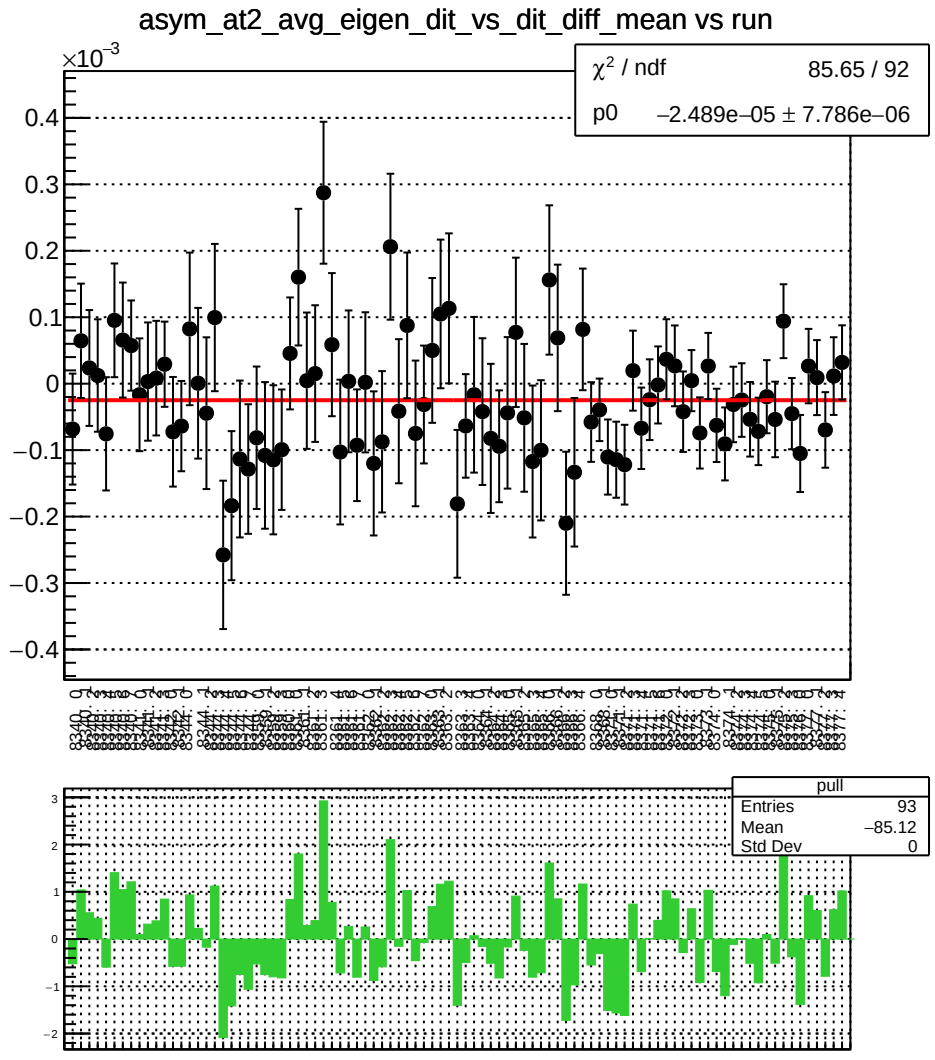

pull1D
Entries 93
Mean 0.01227
Std Dev 0.8804

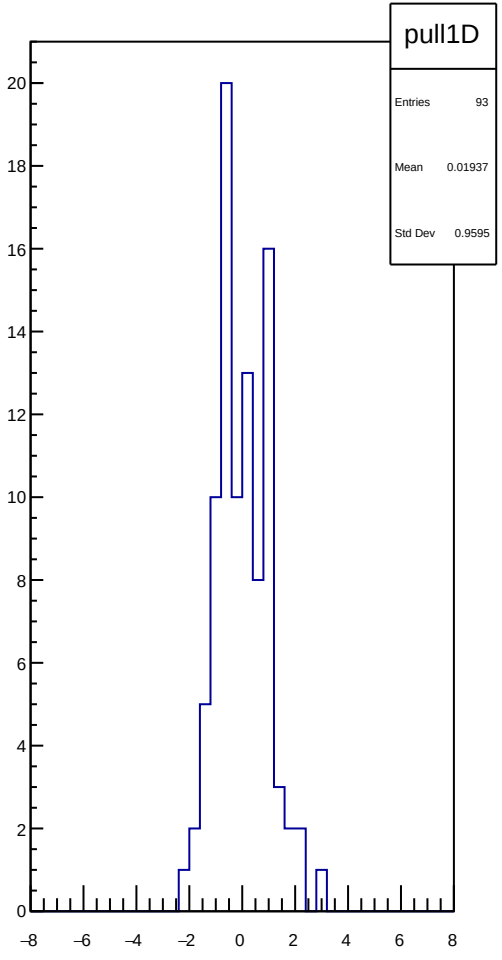

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 92
p0 244.2 ± 0.1816
340
320
300
280
260
240
220
200
180

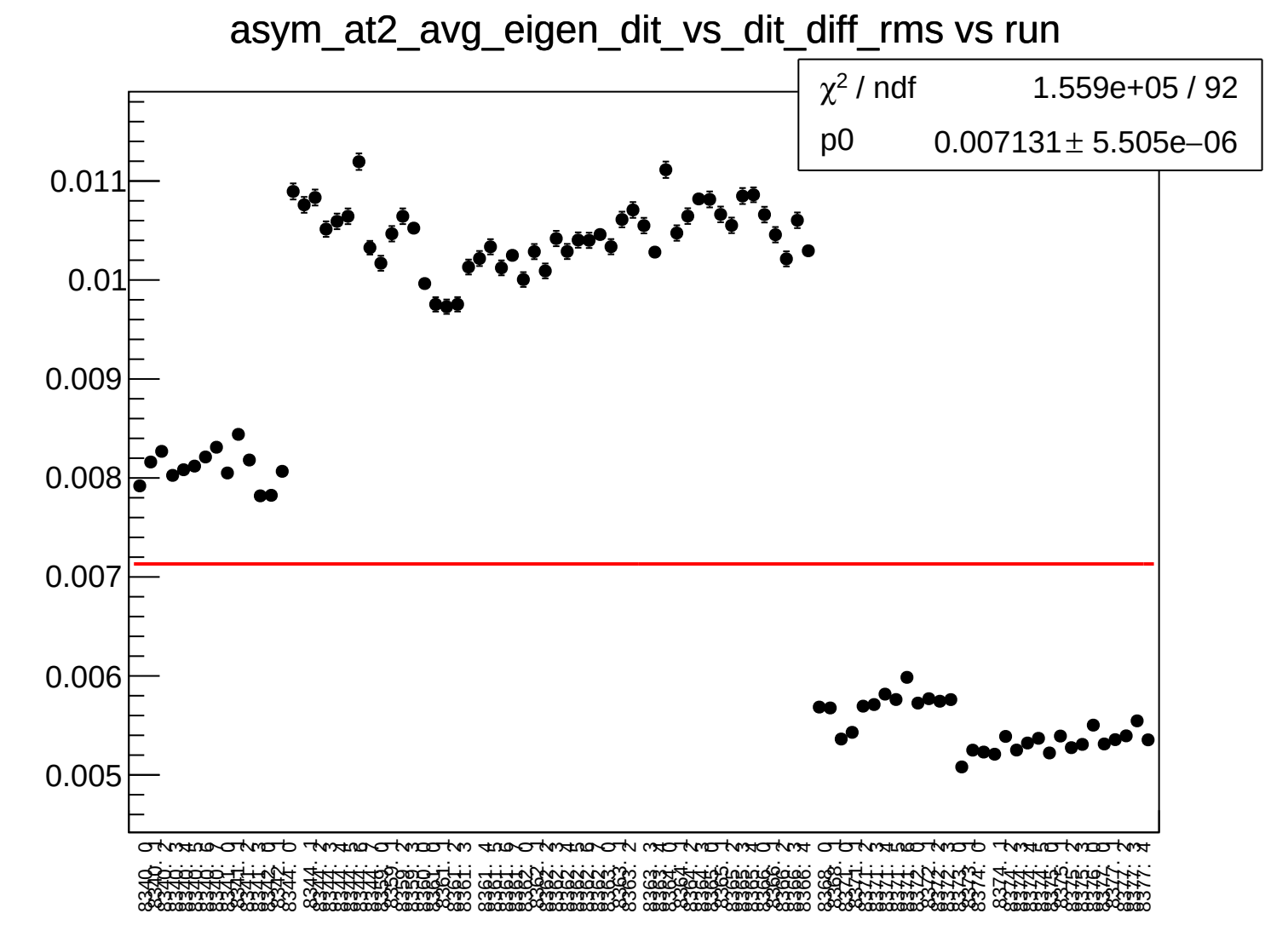

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.1 / 92
p0 −0.3287 ± 0.2569
pull
Entries 93
Mean −94.13
Std Dev 0

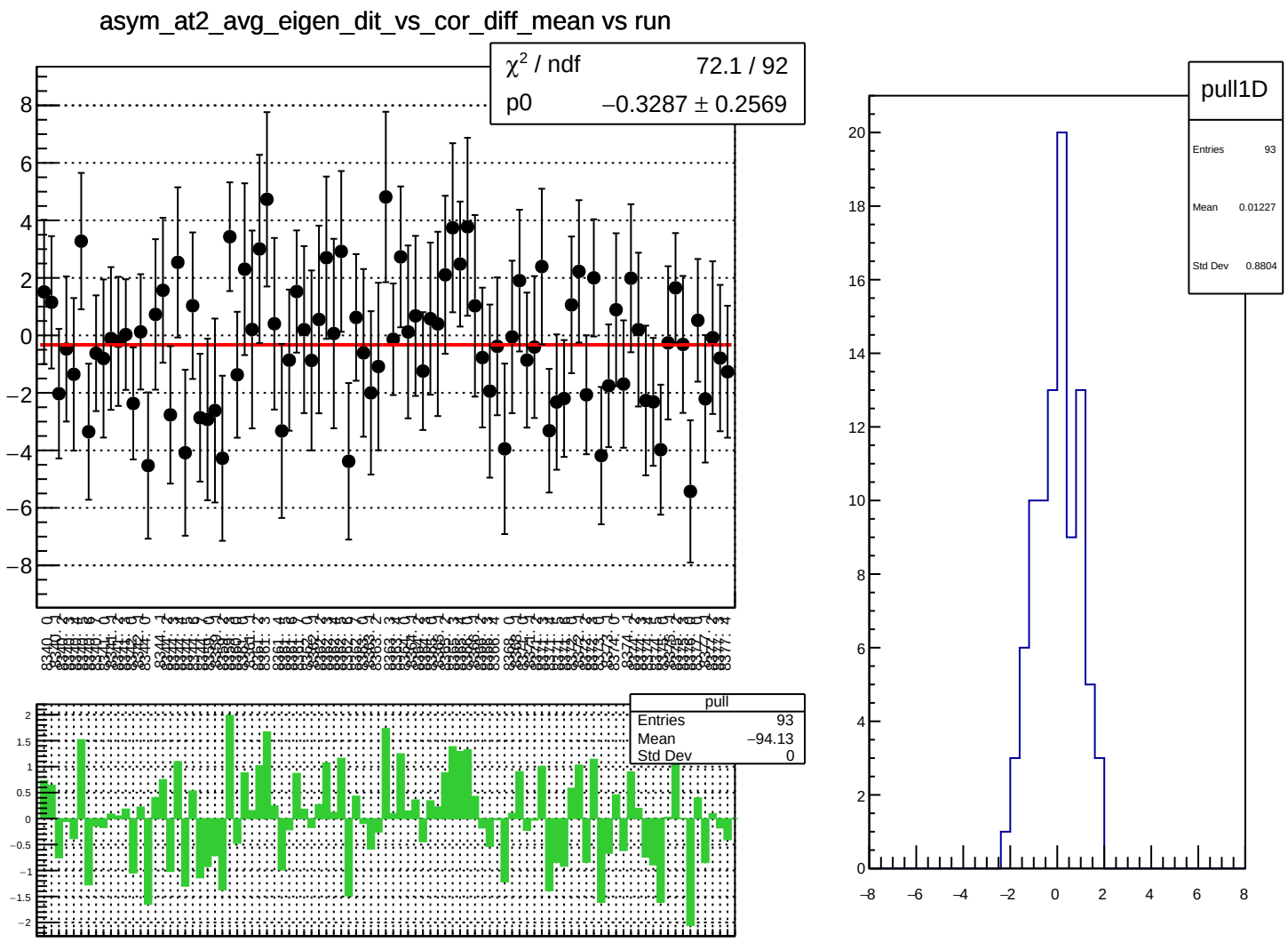

pull1D
Entries 93
Mean 0.01227
Std Dev 0.8804

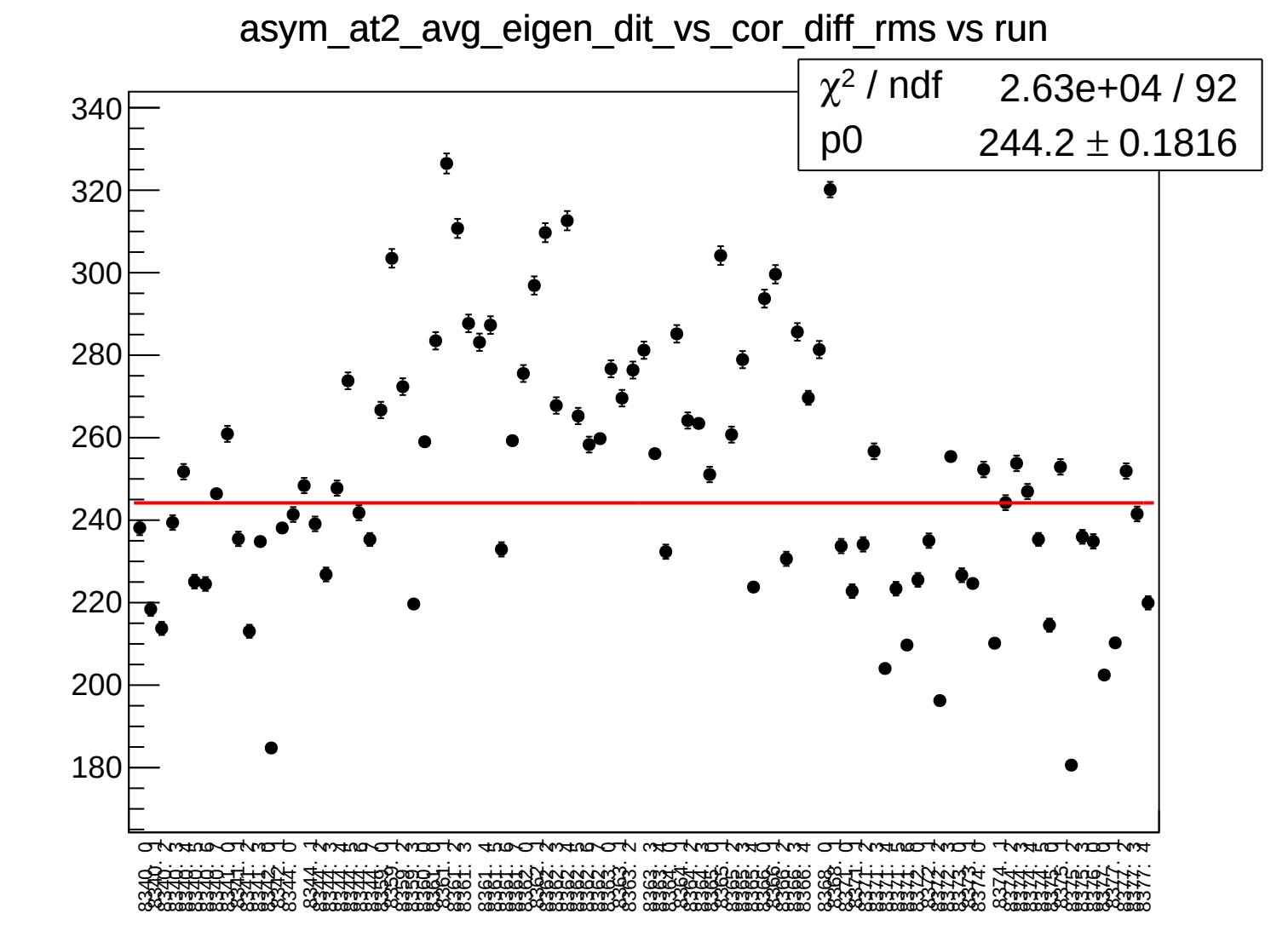

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 92
p0 244.2 ± 0.1816
340
320
300
280
260
240
220
200
180

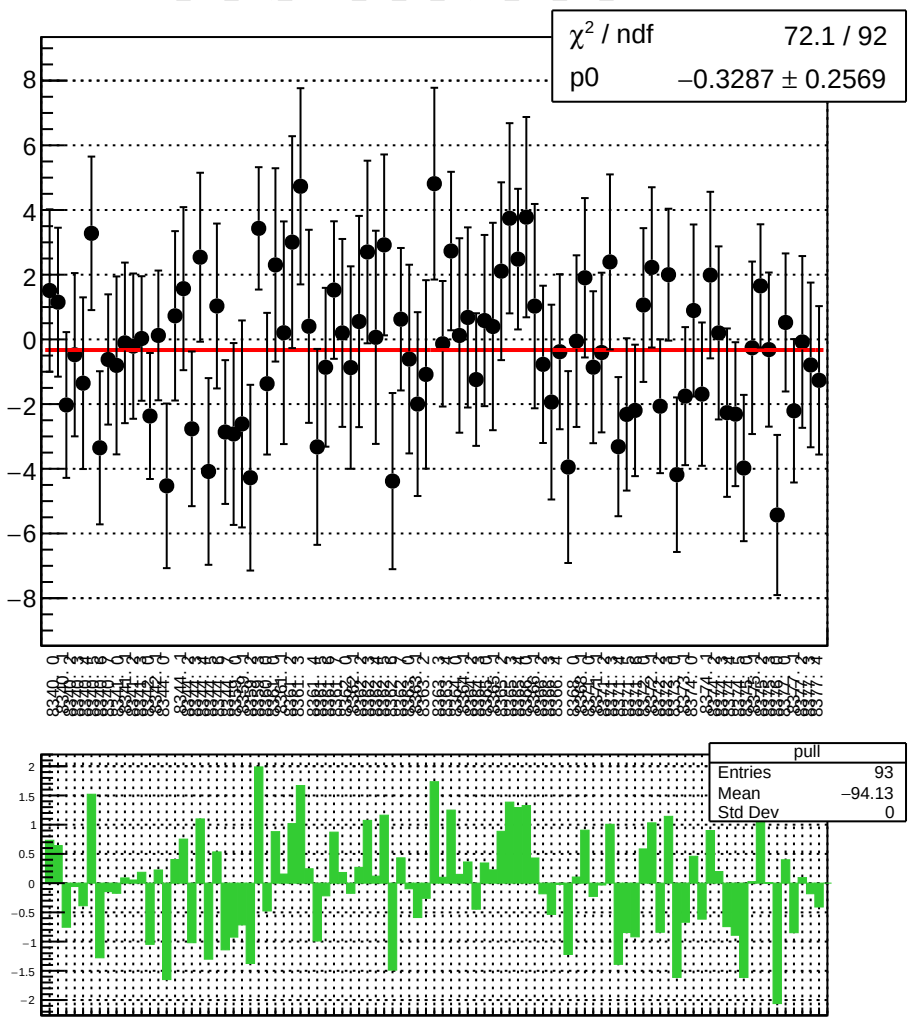

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.65 / 92
p0 −2.489e−05 ± 7.786e−06
pull
Entries 93
Mean −85.12
Std Dev 0

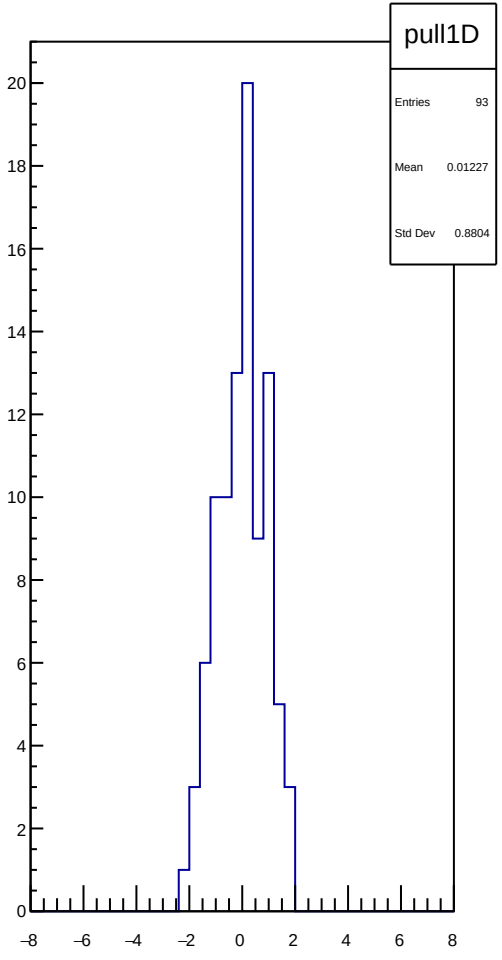

pull1D
Entries 93
Mean 0.01937
Std Dev 0.9595

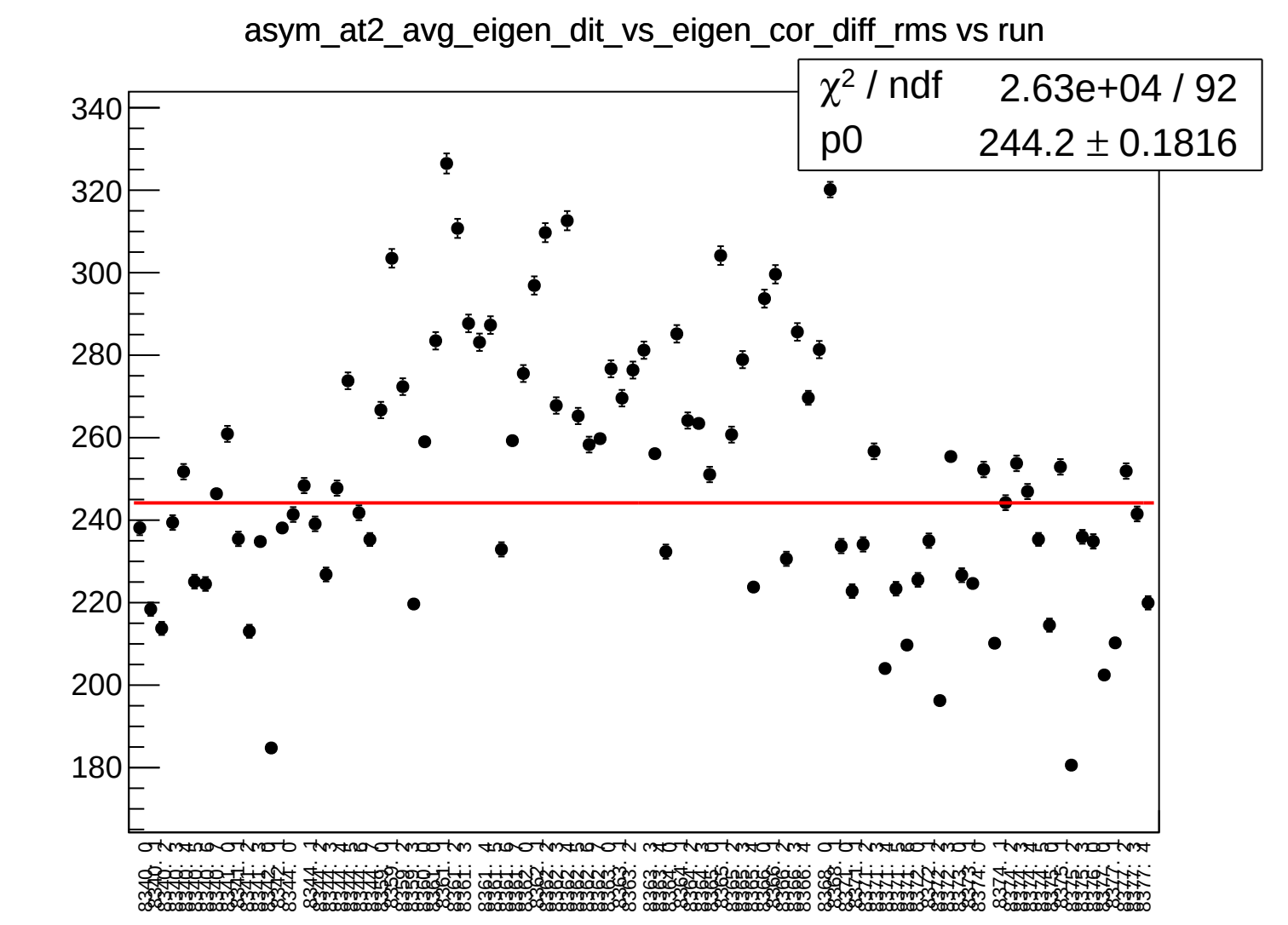

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.559e+05 / 92
p0 0.007131 ± 5.505e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

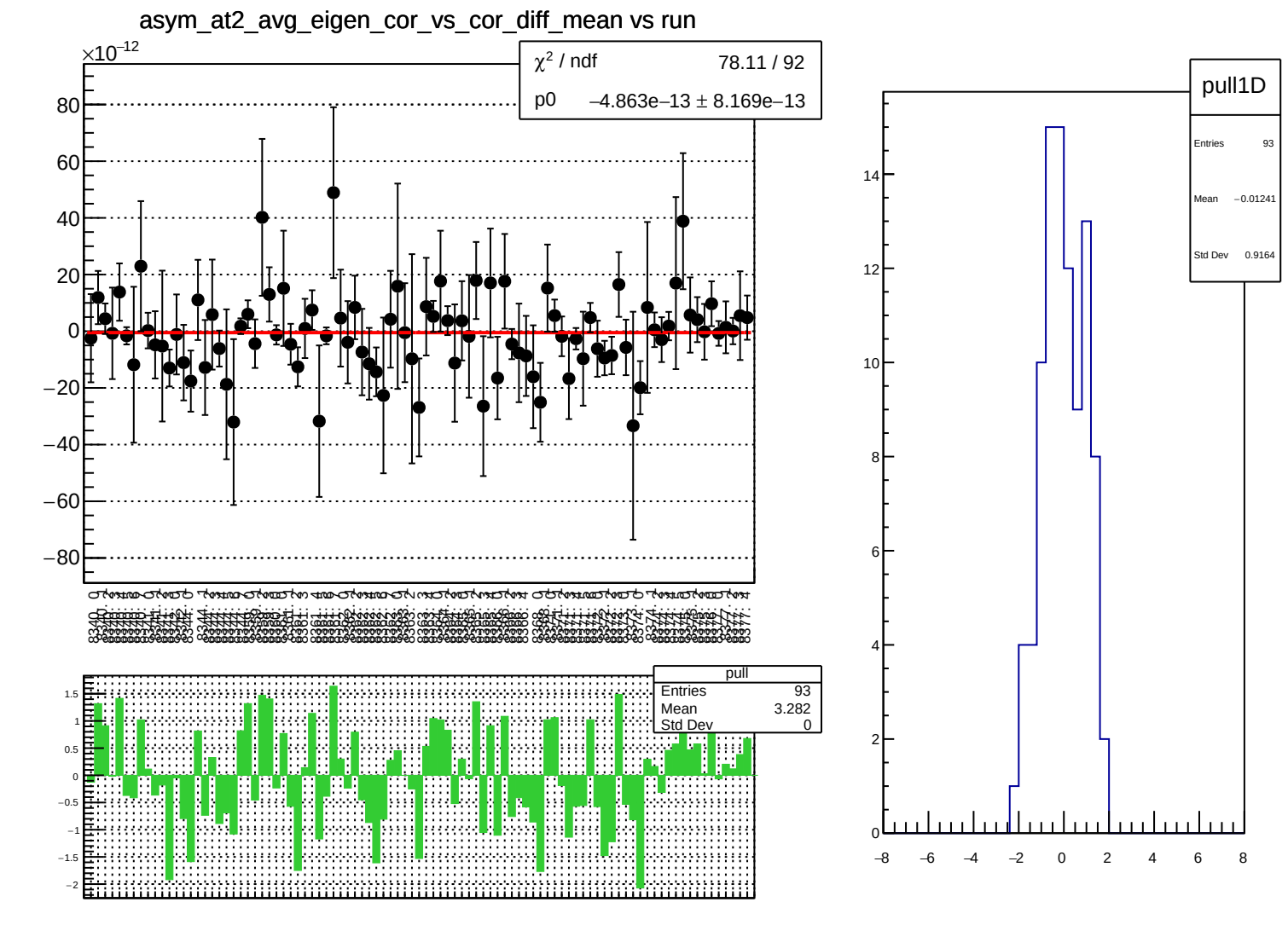

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.1 / 92
p0 −0.3287 ± 0.2569
pull
Entries 93
Mean −94.13
Std Dev 0
pull1D
Entries 93
Mean 0.01227
Std Dev 0.8804

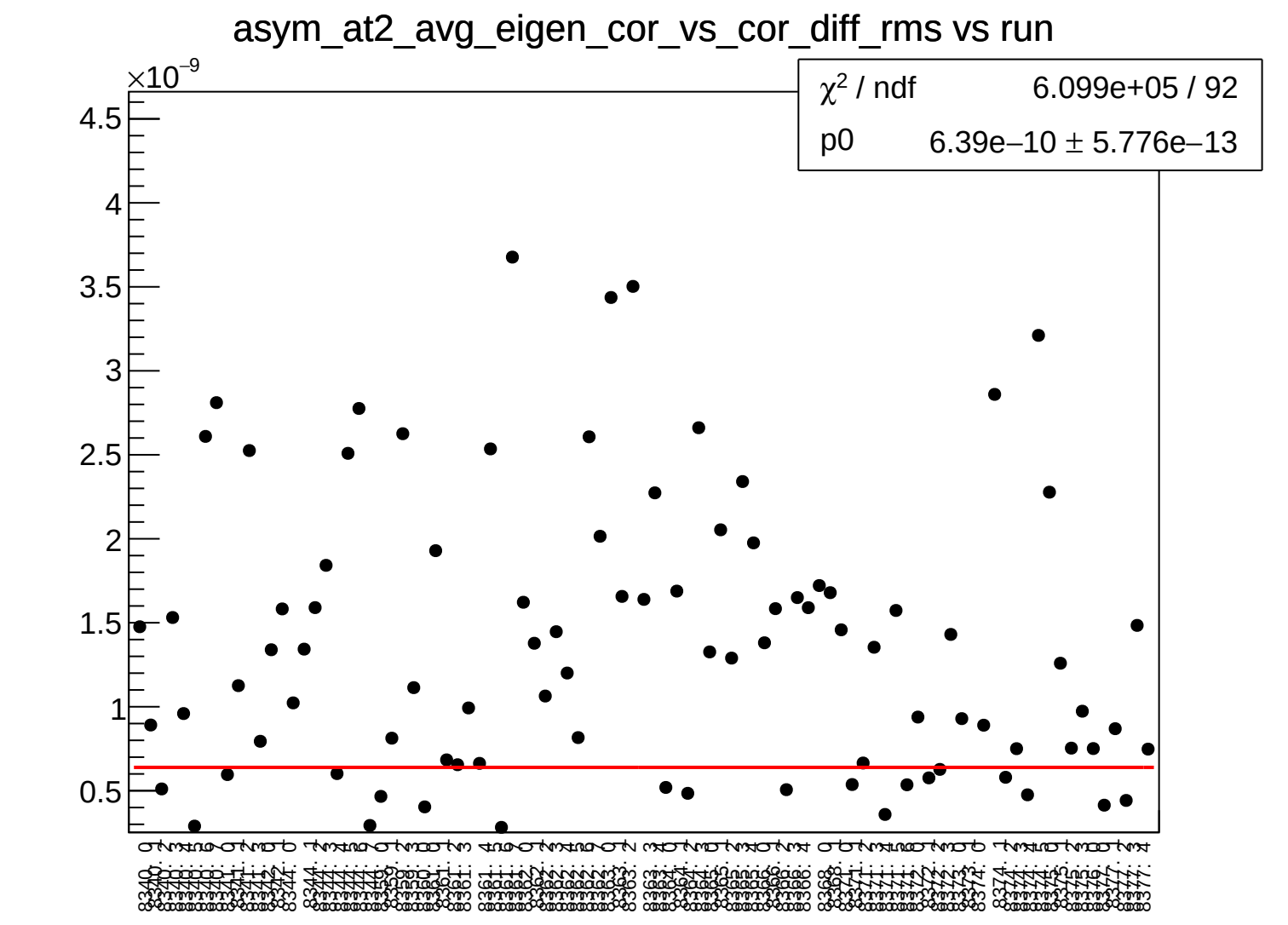

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 92
p0 244.2 ± 0.1816
340
320
300
280
260
240
220
200
180

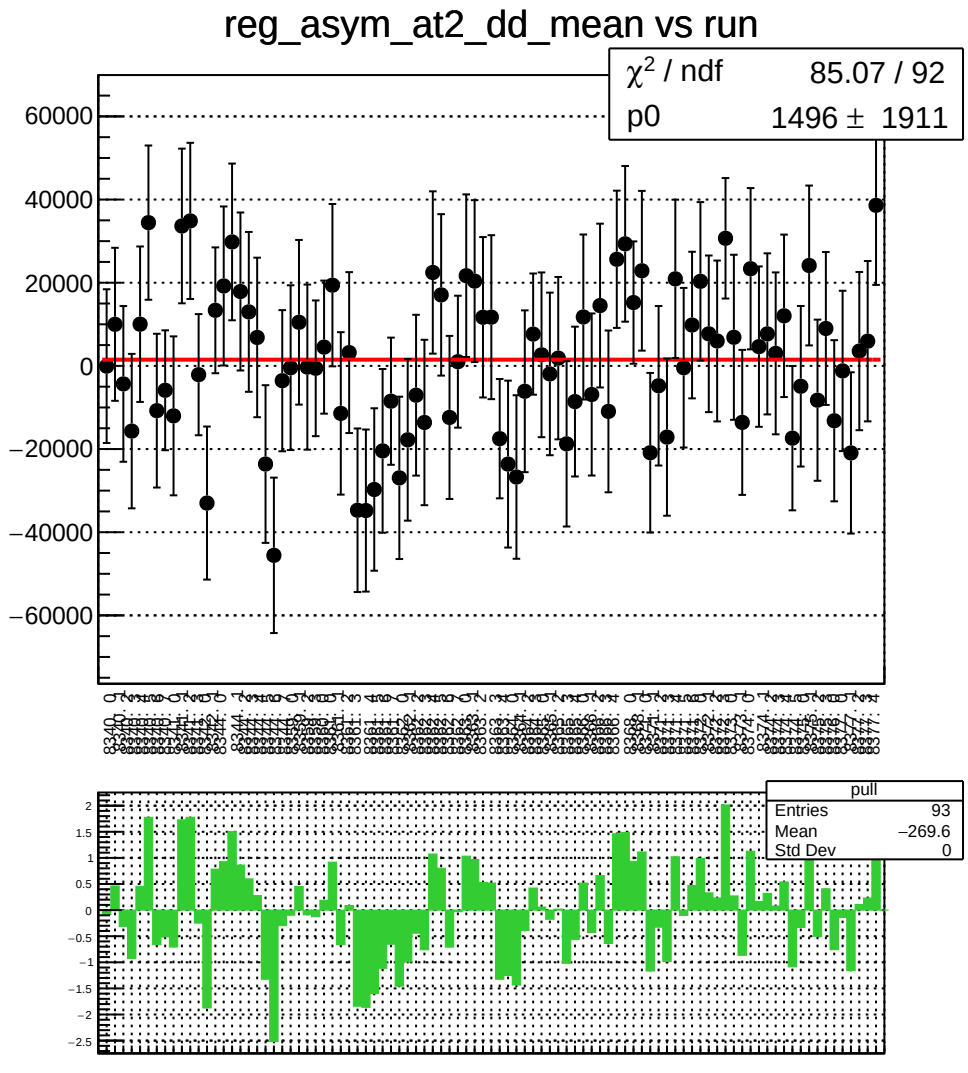

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.1 / 92
p0 −0.3287 ± 0.2569
pull
Entries 93
Mean −94.13
Std Dev 0

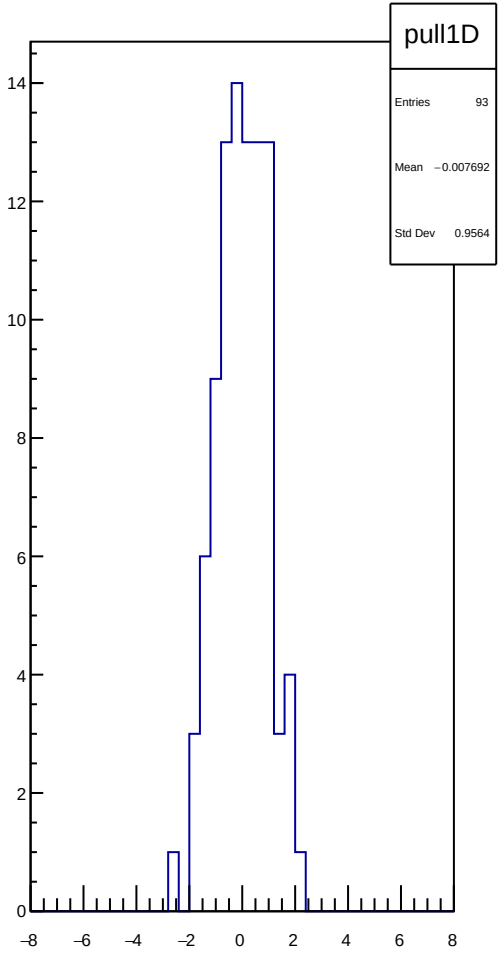

pull1D
Entries 93
Mean 0.01227
Std Dev 0.8804

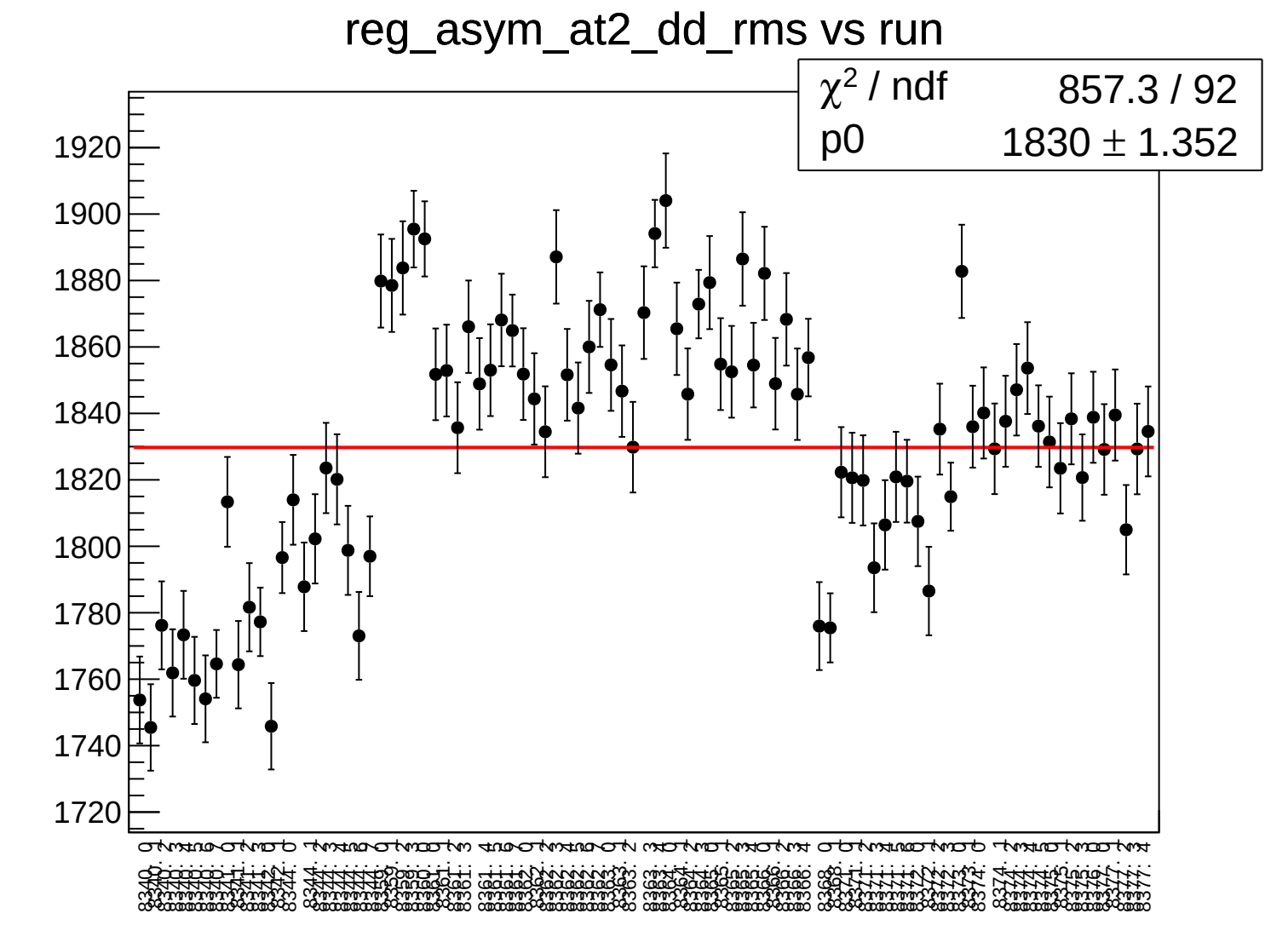

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.63e+04 / 92
p0 244.2 ± 0.1816
340
320
300
280
260
240
220
200
180

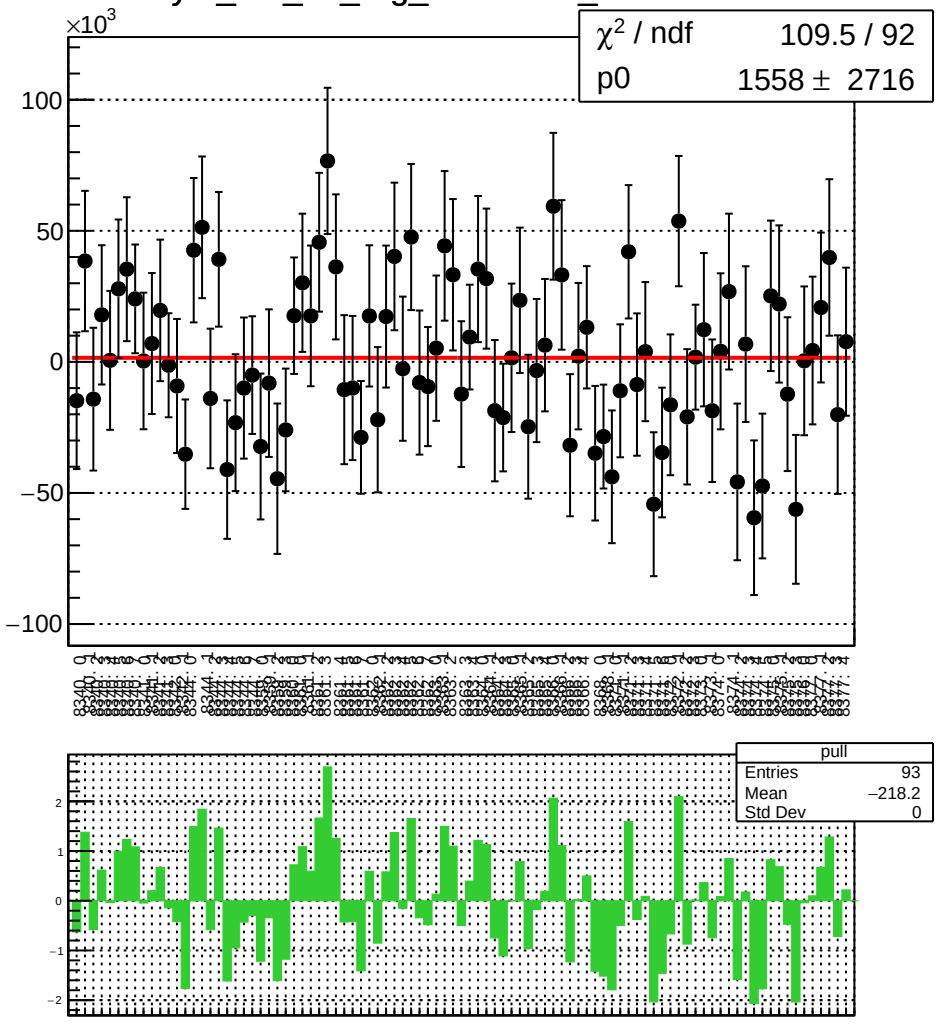

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.11 / 92
p0 −4.863e−13 ± 8.169e−13
pull
Entries 93
Mean 3.282
Std Dev 0
pull1D
Entries 93
Mean −0.01241
Std Dev 0.9164

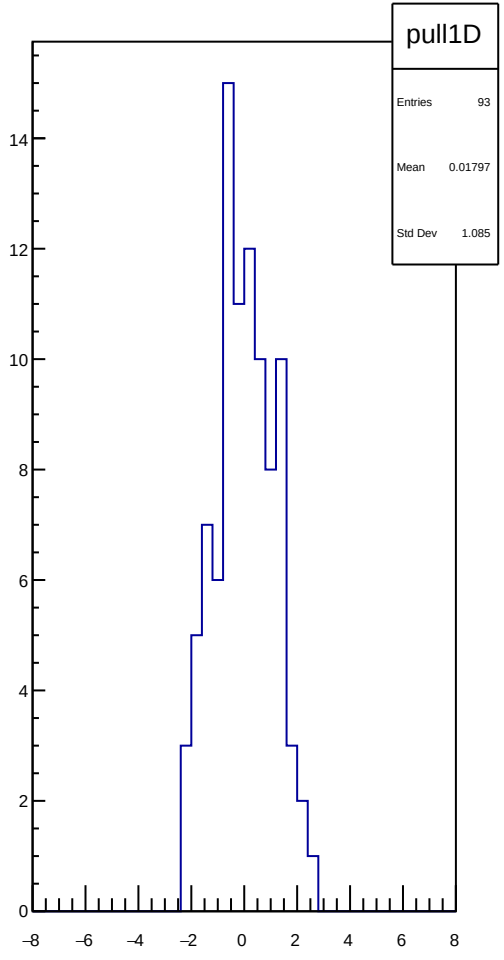

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.099e+05 / 92
p0 6.39e−10 ± 5.776e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

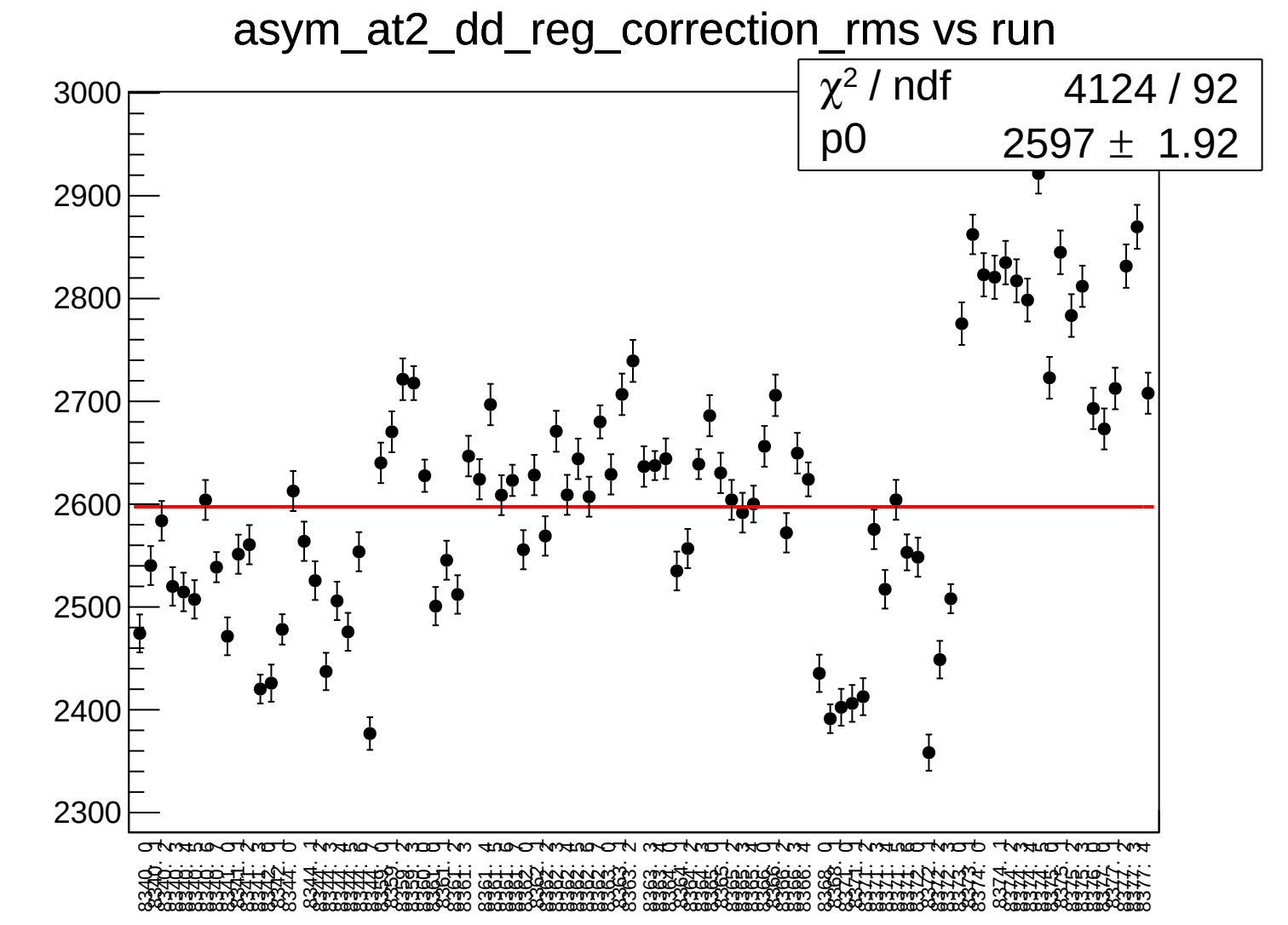

reg_asym_at2_dd_mean vs run
χ² / ndf 85.07 / 92
p0 1496 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −269.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

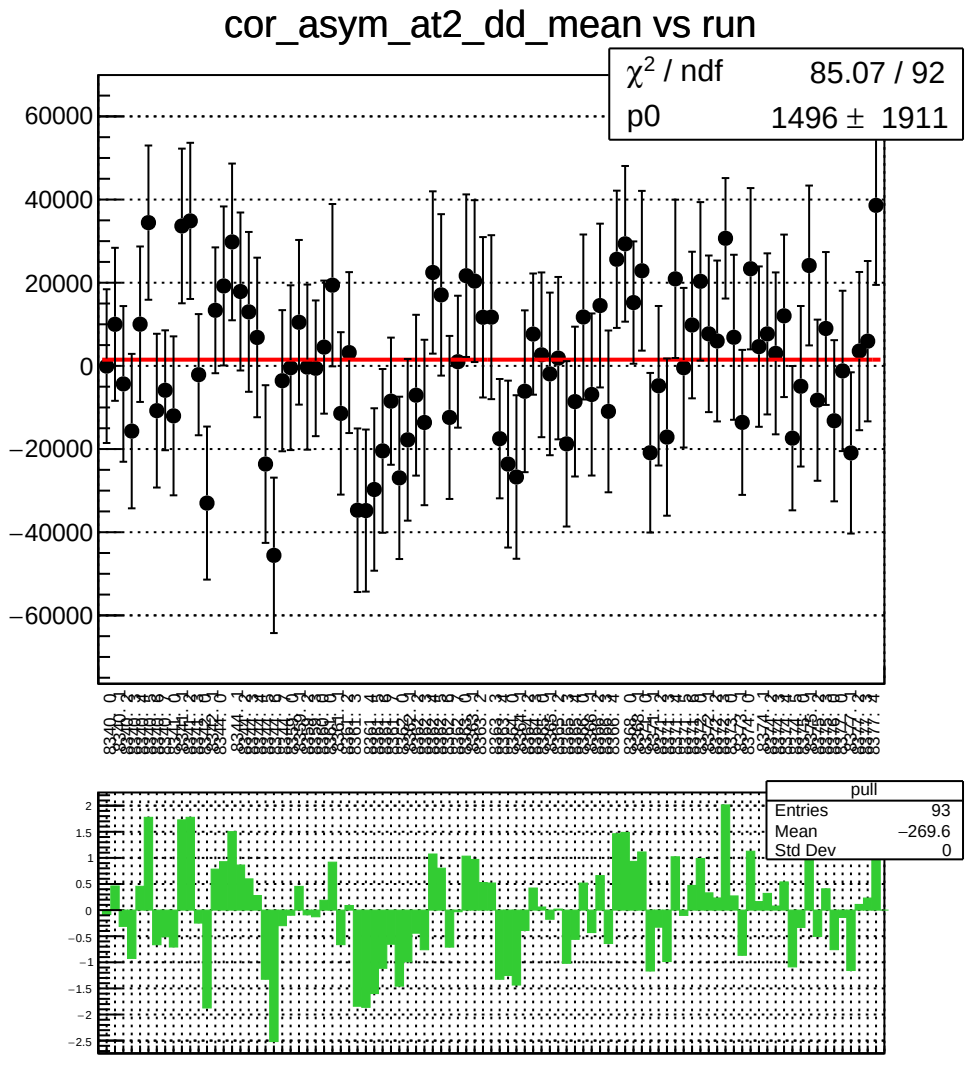

pull1D
Entries 93
Mean −0.007692
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

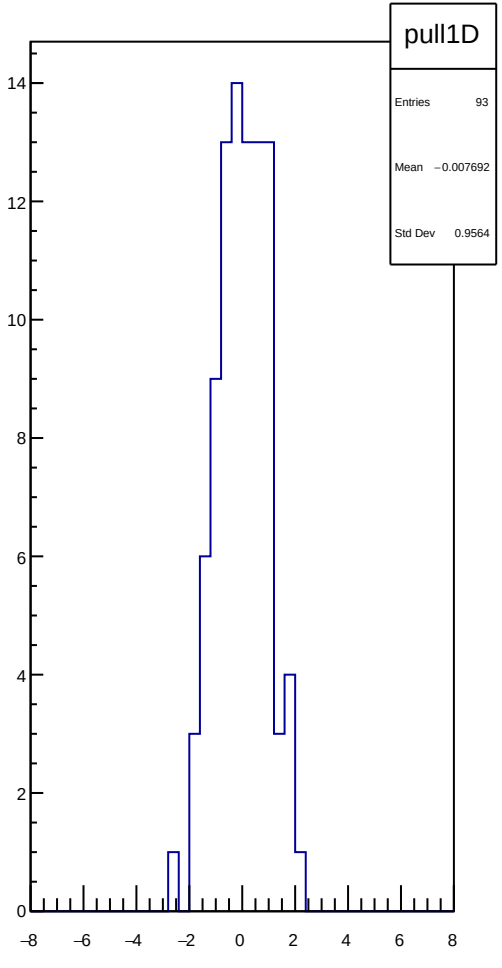

reg_asym_at2_dd_rms vs run
χ^2 / ndf 857.3 / 92
p0 1830 ± 1.352
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

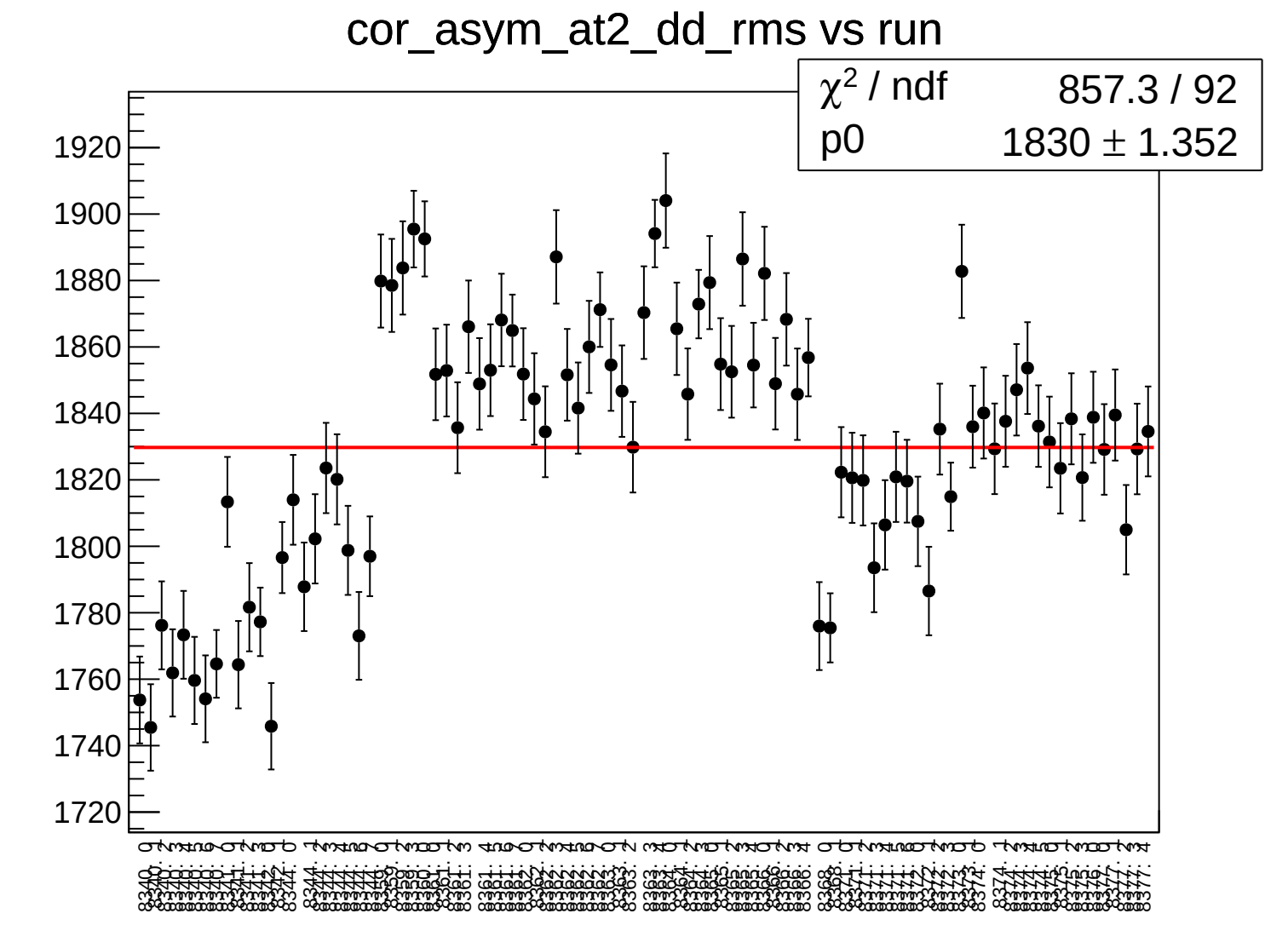

asym_at2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 109.5 / 92
p0 1558 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −218.2
Std Dev 0
2
1
0
−1
−2

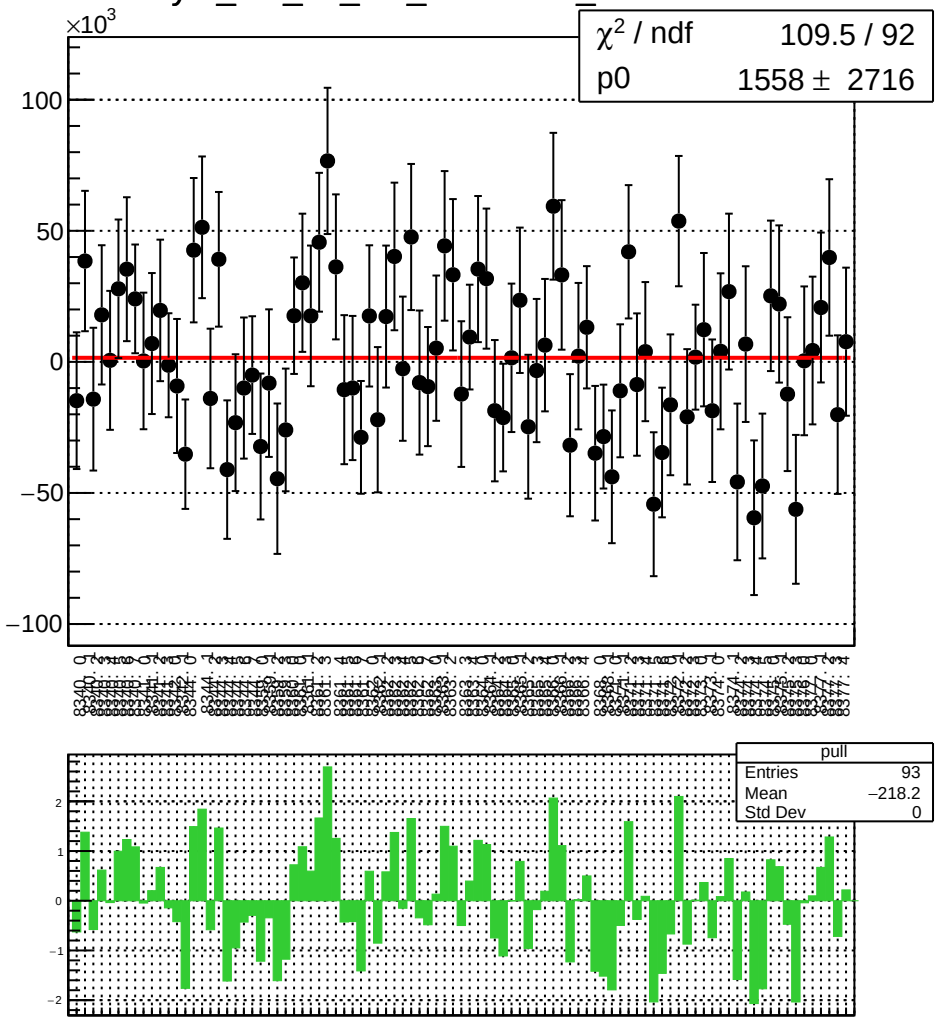

pull1D
Entries 93
Mean 0.01797
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

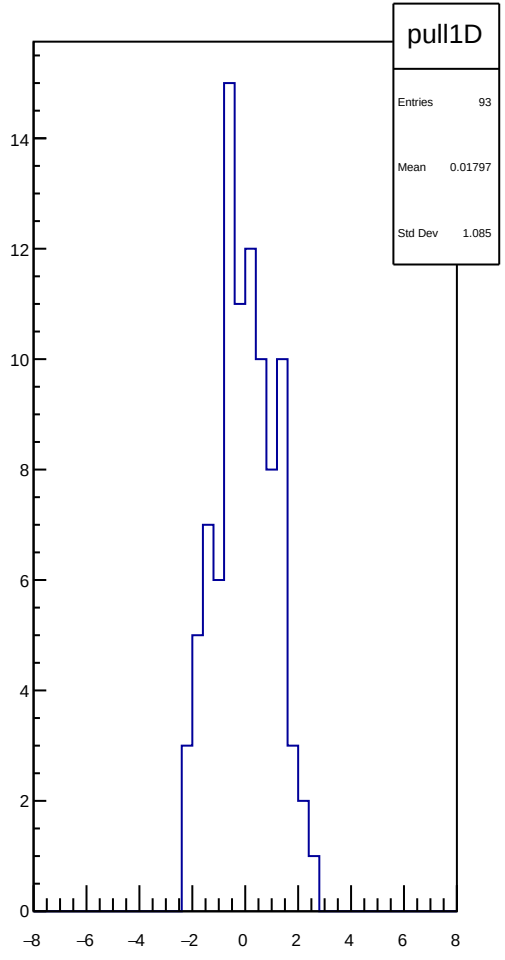

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4124 / 92
p0 2597 ± 1.92
3000
2900
2800
2700
2600
2500
2400
2300

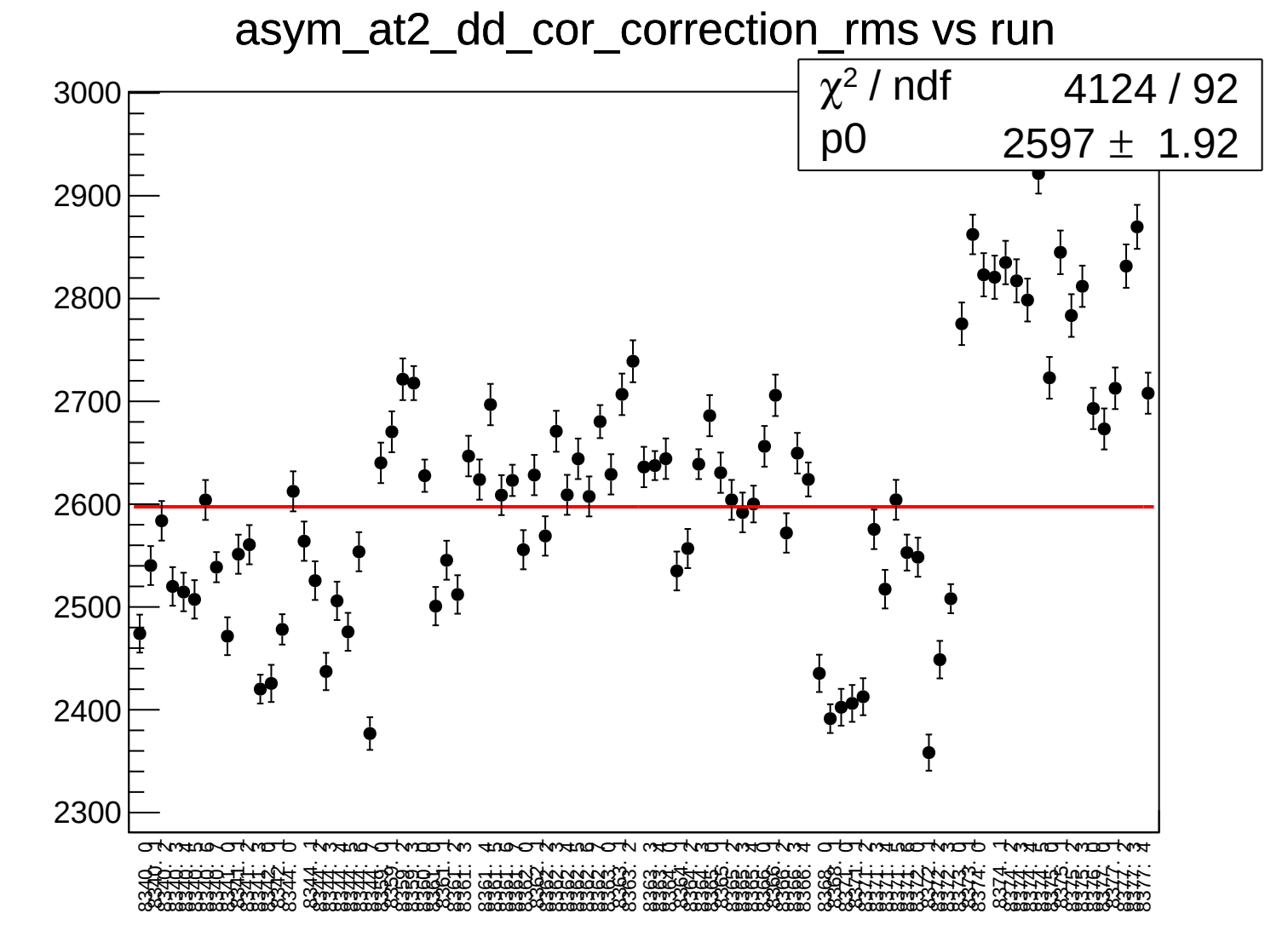

cor_asym_at2_dd_mean vs run
χ² / ndf 85.07 / 92
p0 1496 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −269.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

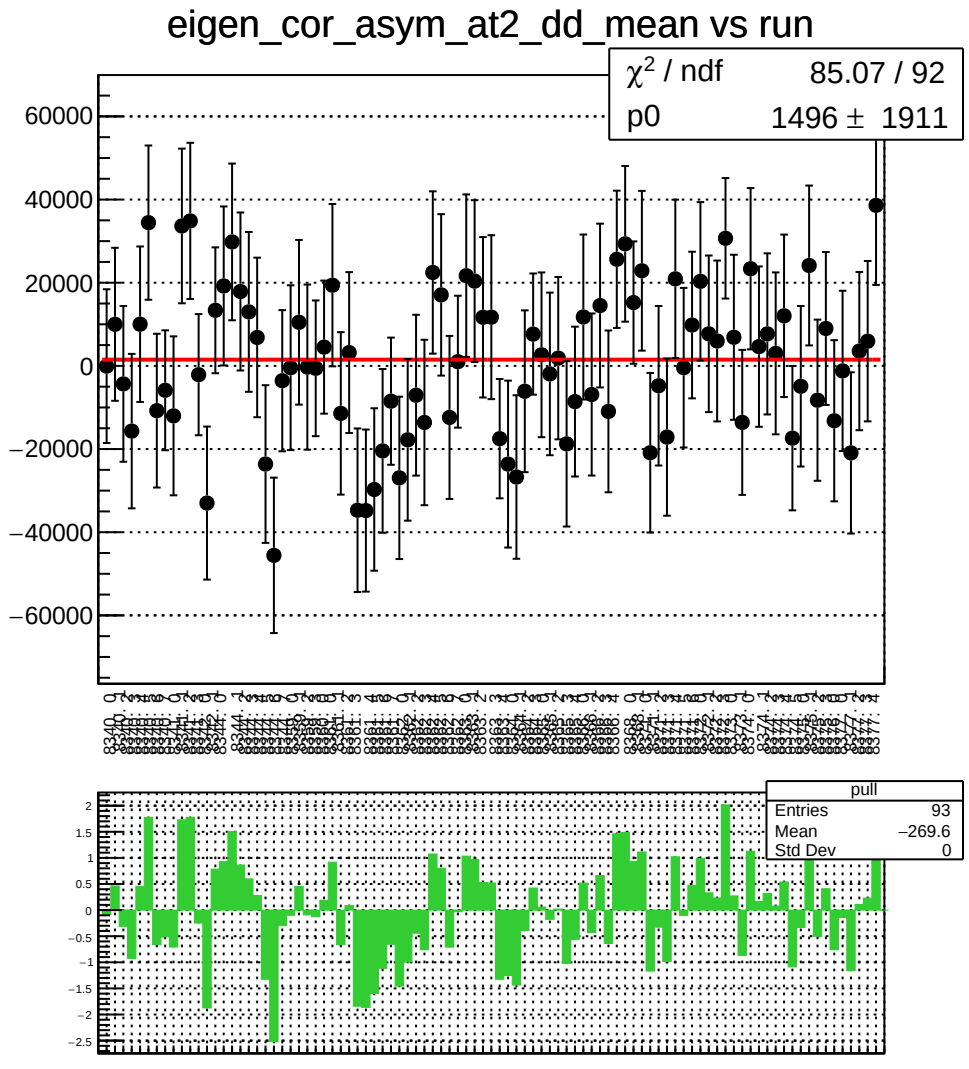

pull1D
Entries 93
Mean −0.007692
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

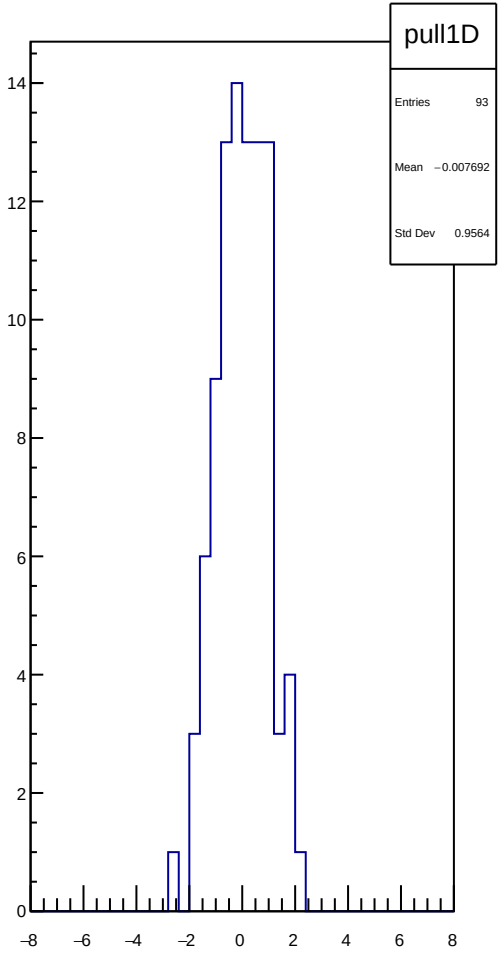

cor_asym_at2_dd_rms vs run
χ^2 / ndf 857.3 / 92
p0 1830 ± 1.352
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_at2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 109.5 / 92
p0 1558 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −218.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.01797
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4124 / 92
p0 2597 ± 1.92
3000
2900
2800
2700
2600
2500
2400
2300


eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 85.07 / 92
p0 1496 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −269.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.007692
Std Dev 0.9564
14
12
10
8
6
4
2
0
−8
−6
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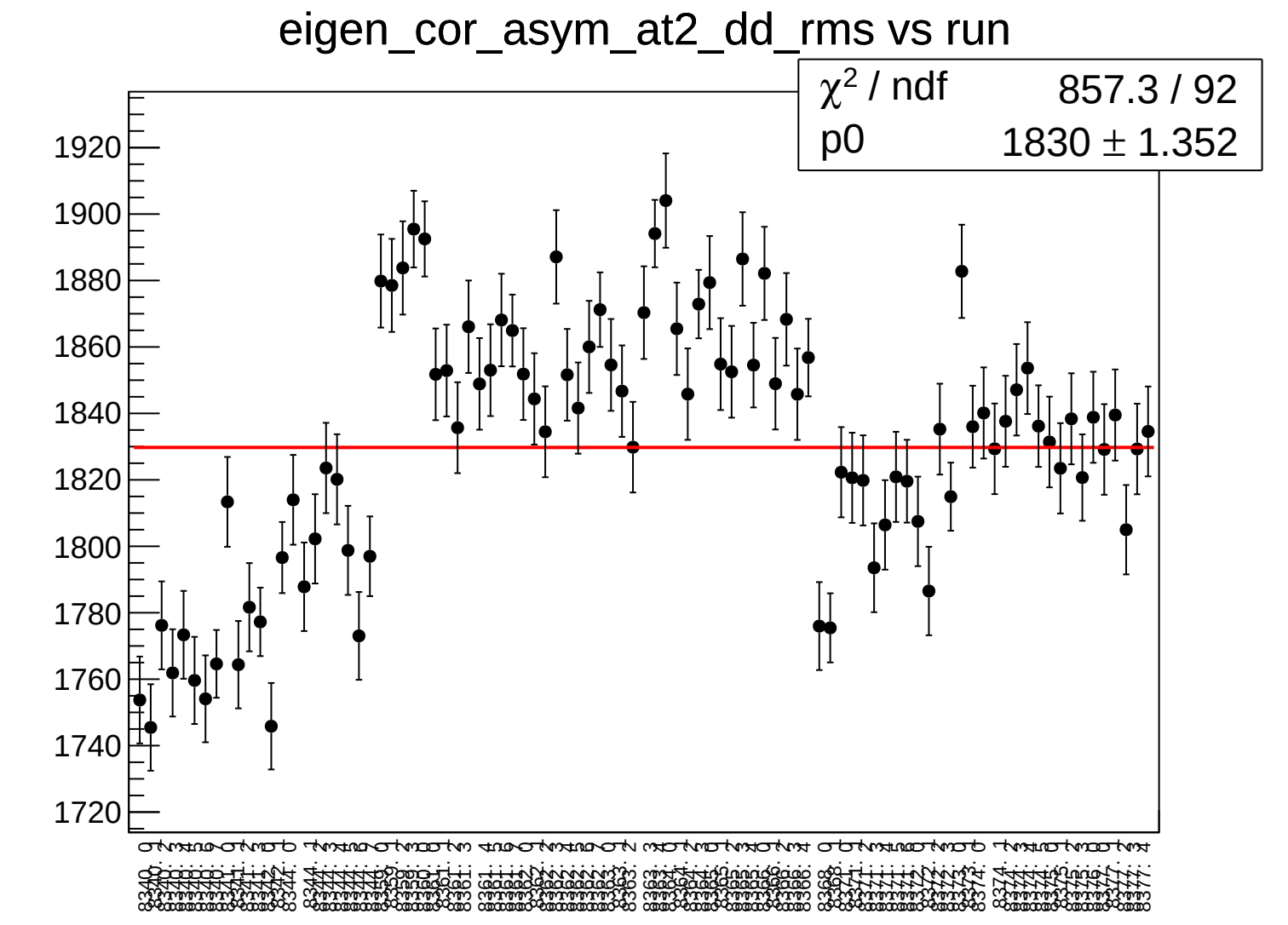
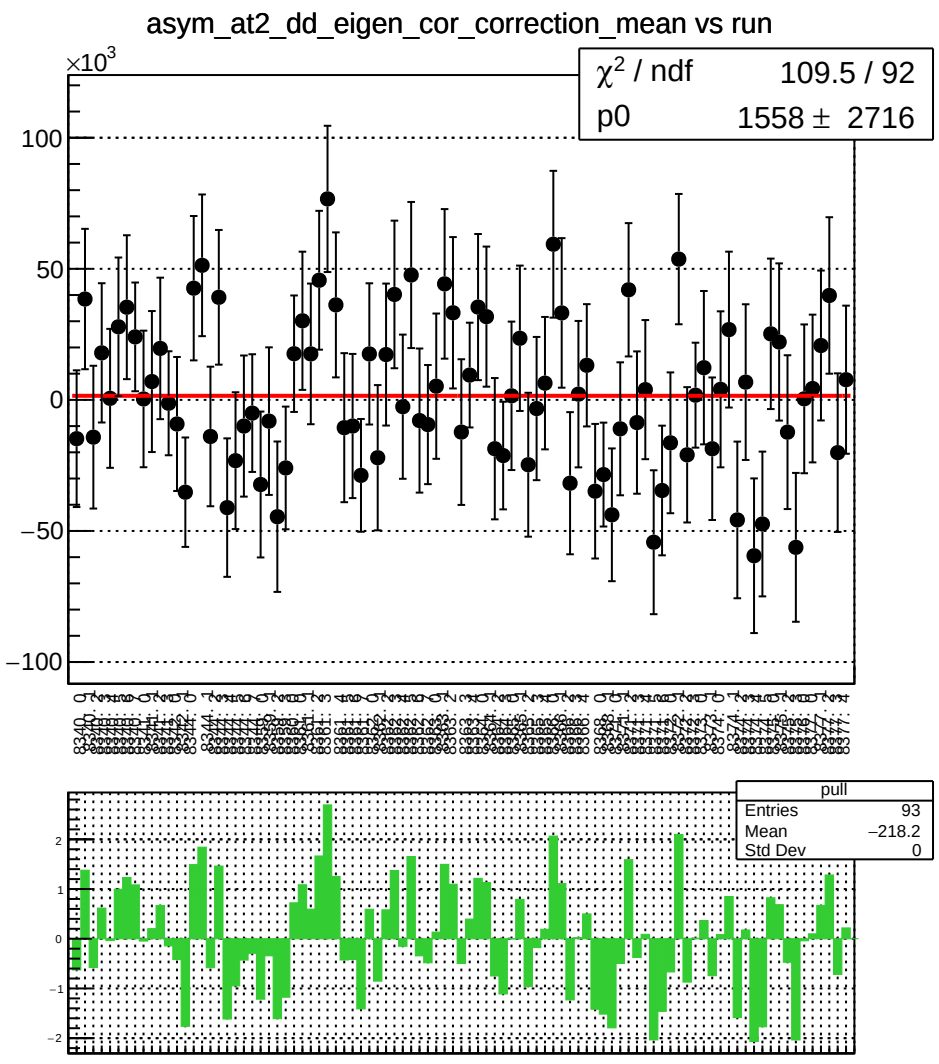
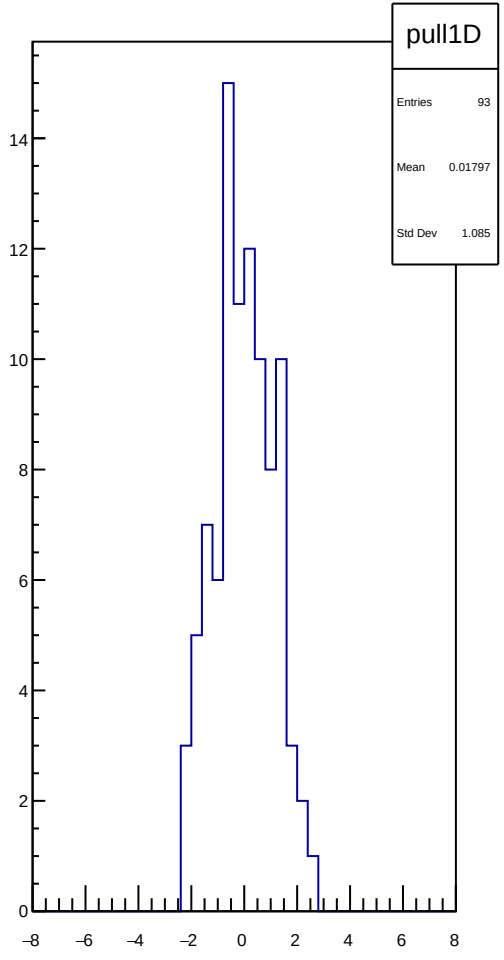
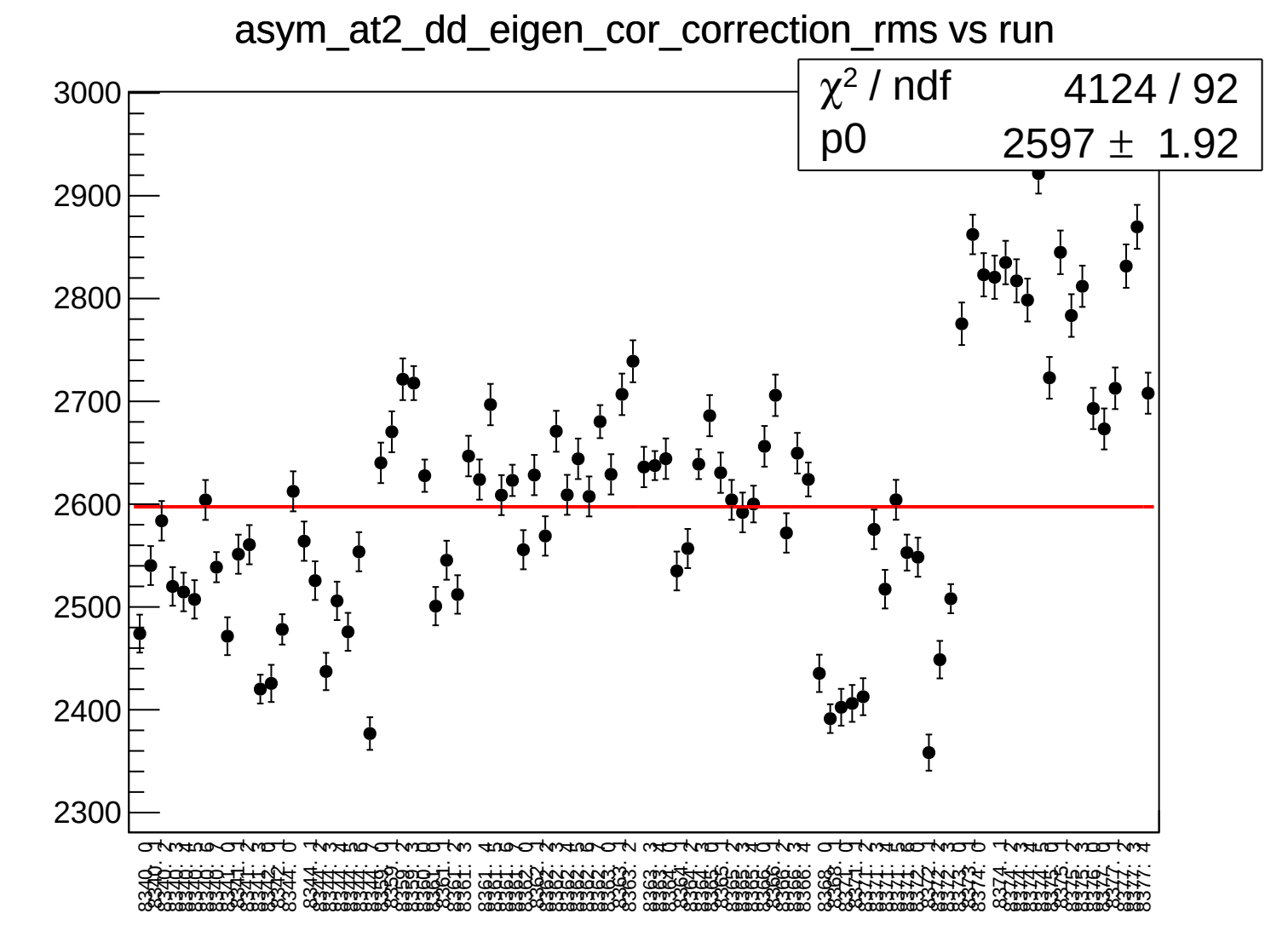
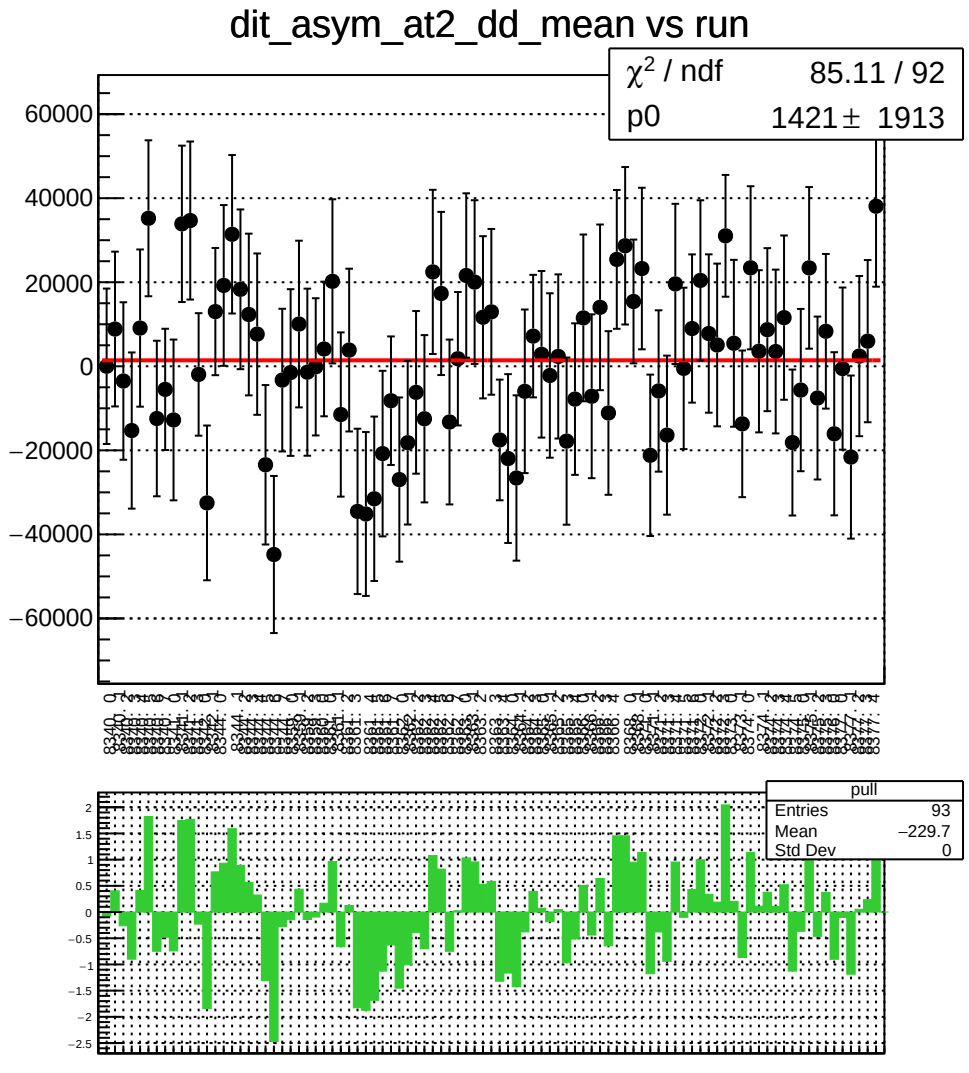
2
4
6
8

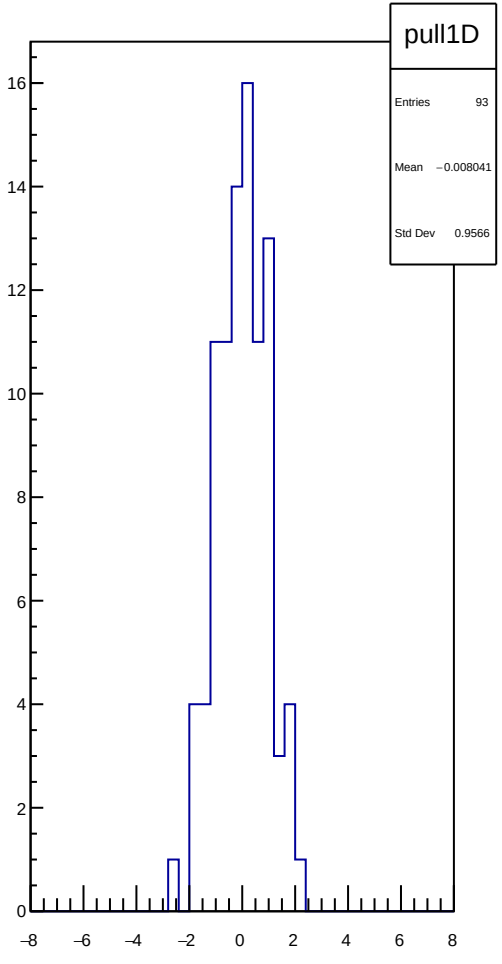

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 857.3 / 92
p0 1830 ± 1.352
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

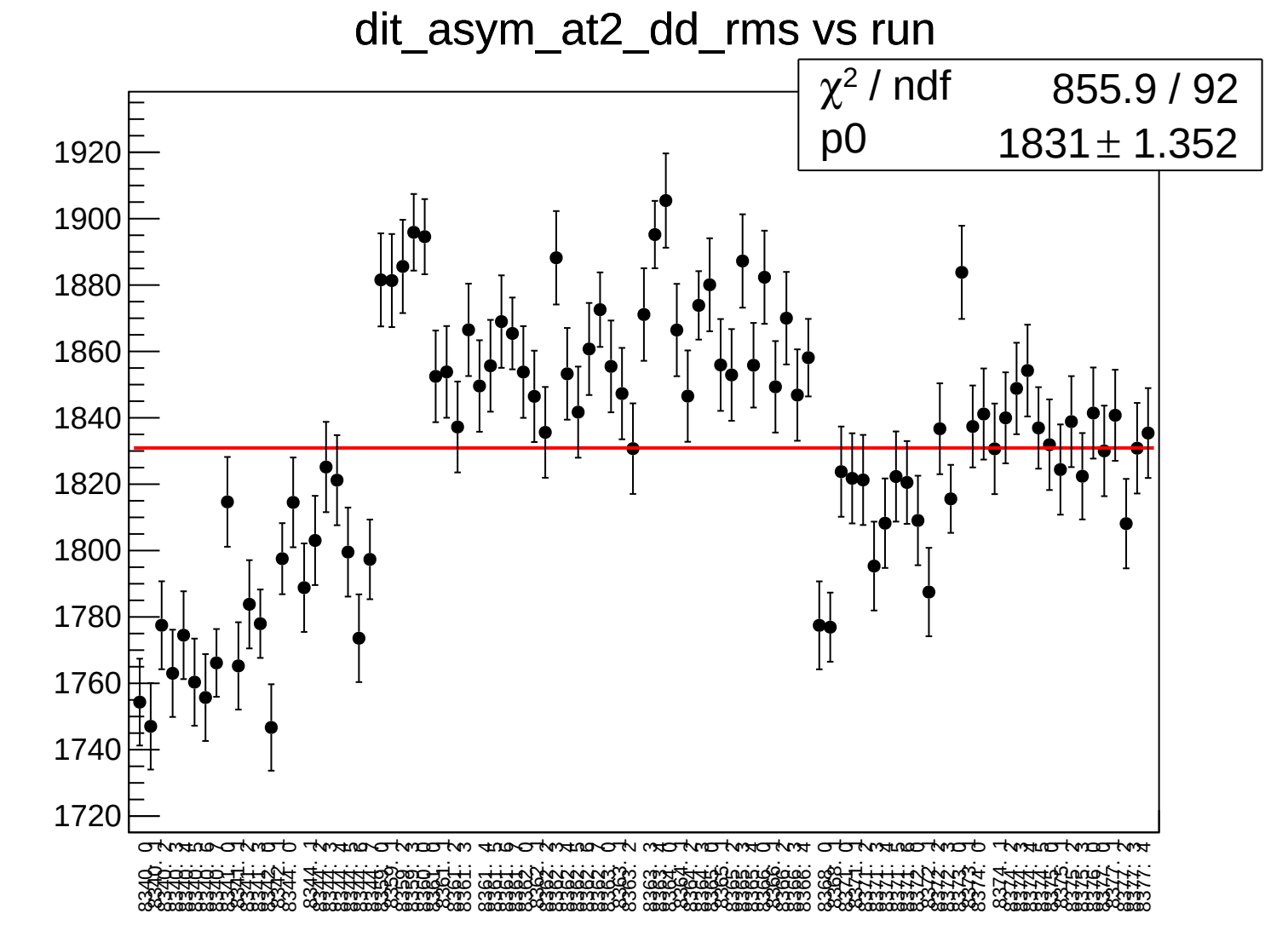

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.5 / 92
p0 1558 ± 2716
100
50
0
−50
−100
pull
Entries 93
Mean −218.2
Std Dev 0
2
1
0
−1
−2

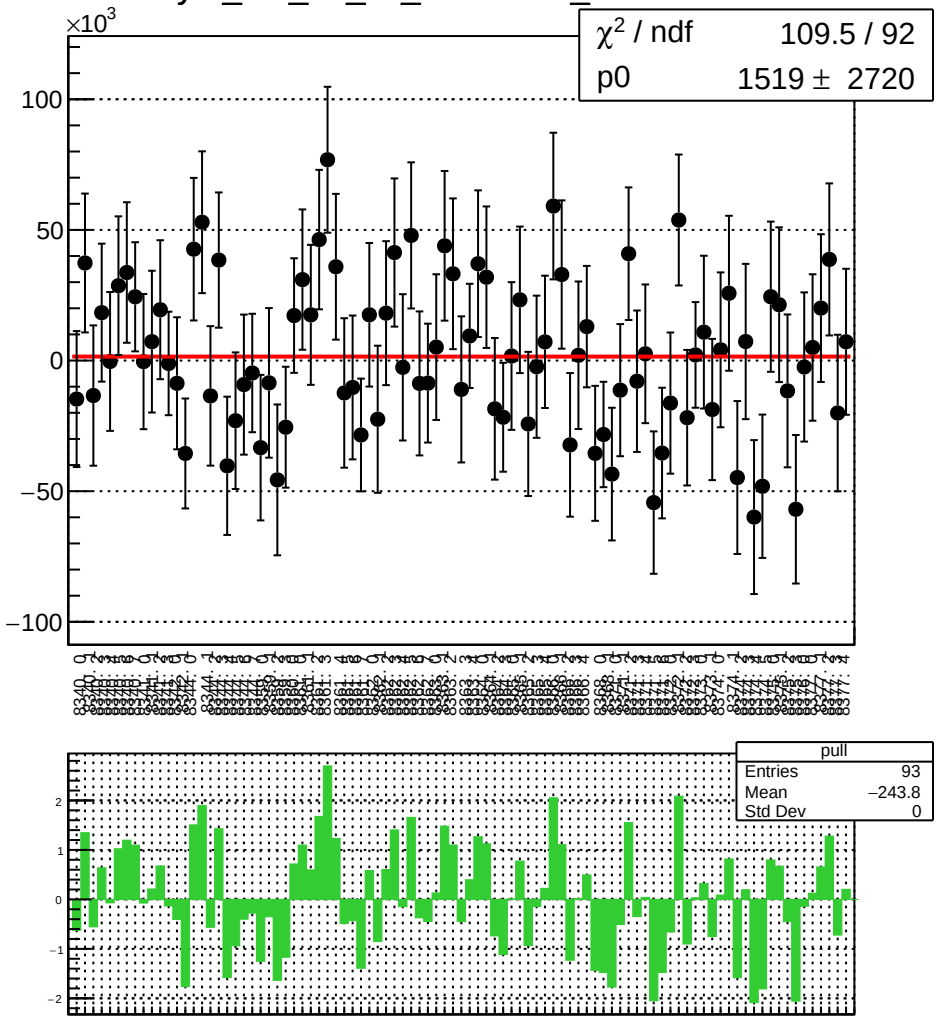

pull1D
Entries 93
Mean 0.01797
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

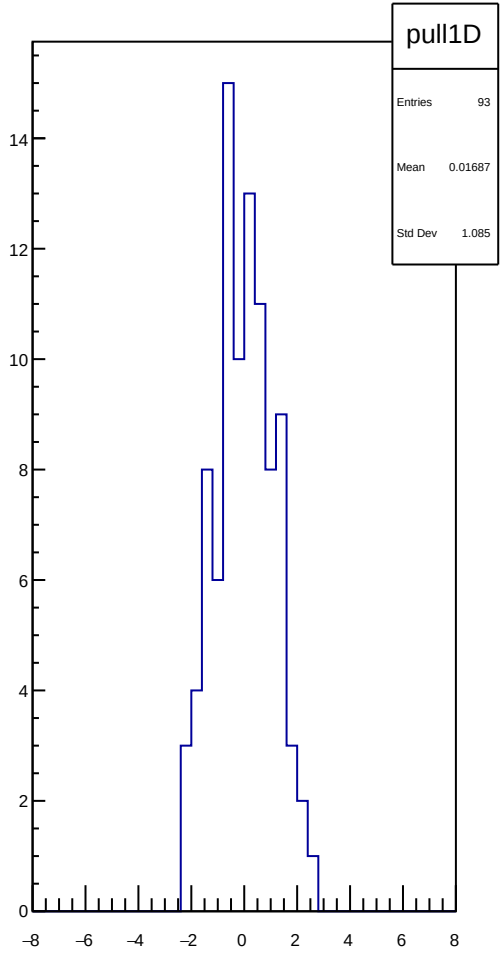

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4124 / 92
p0 2597 ± 1.92
3000
2900
2800
2700
2600
2500
2400
2300

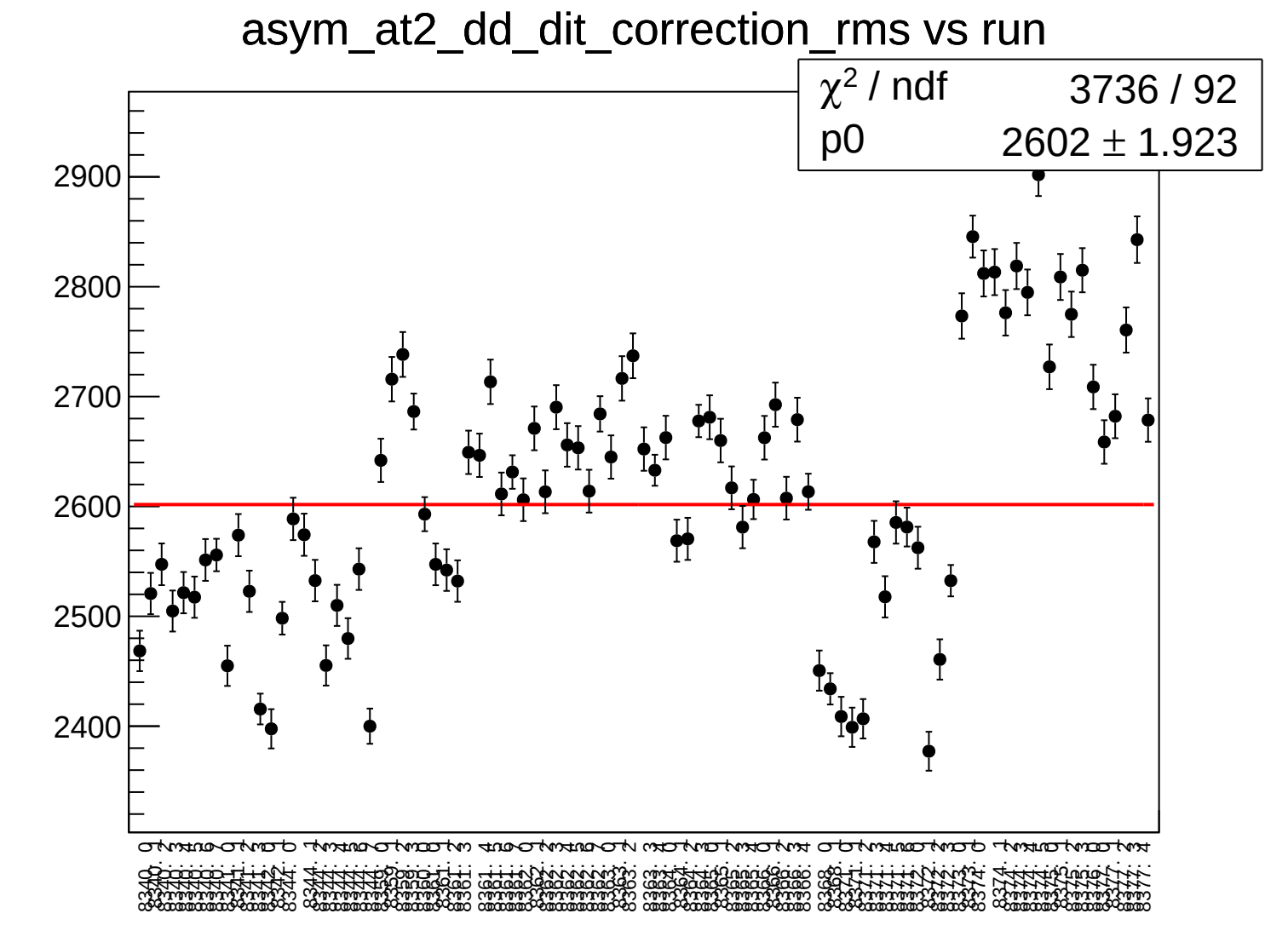

dit_asym_at2_dd_mean vs run
χ² / ndf 85.11 / 92
p0 1421 ± 1913
pull
Entries 93
Mean −229.7
Std Dev 0

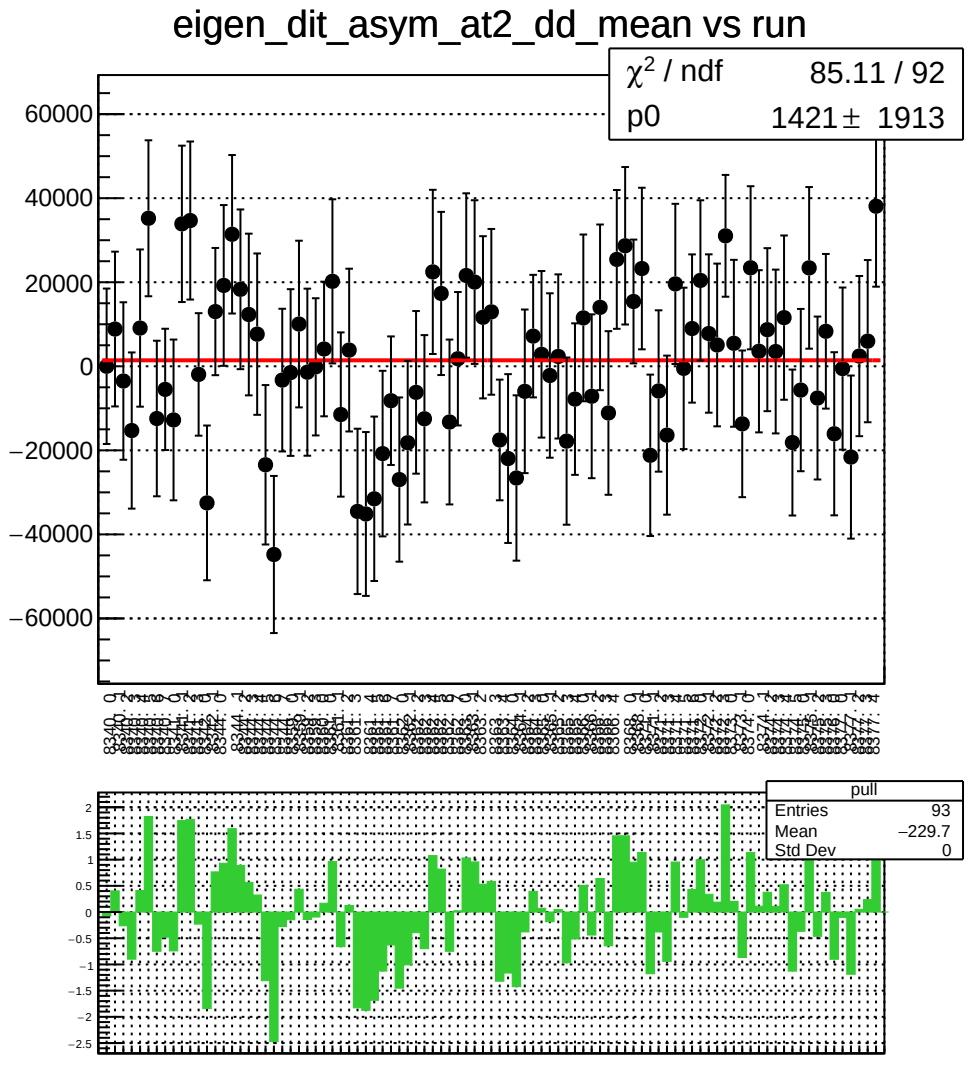

pull1D
Entries 93
Mean −0.008041
Std Dev 0.9566

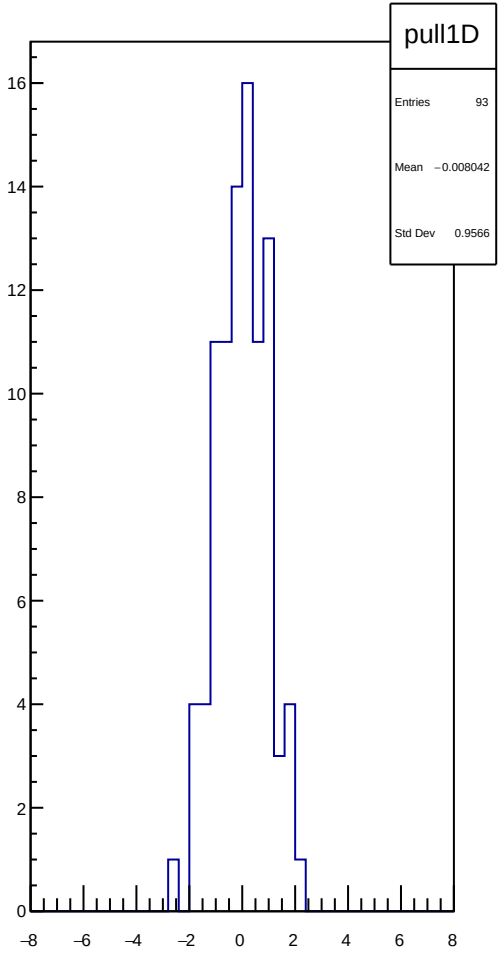

dit_asym_at2_dd_rms vs run
χ² / ndf 855.9 / 92
p0 1831 ± 1.352
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

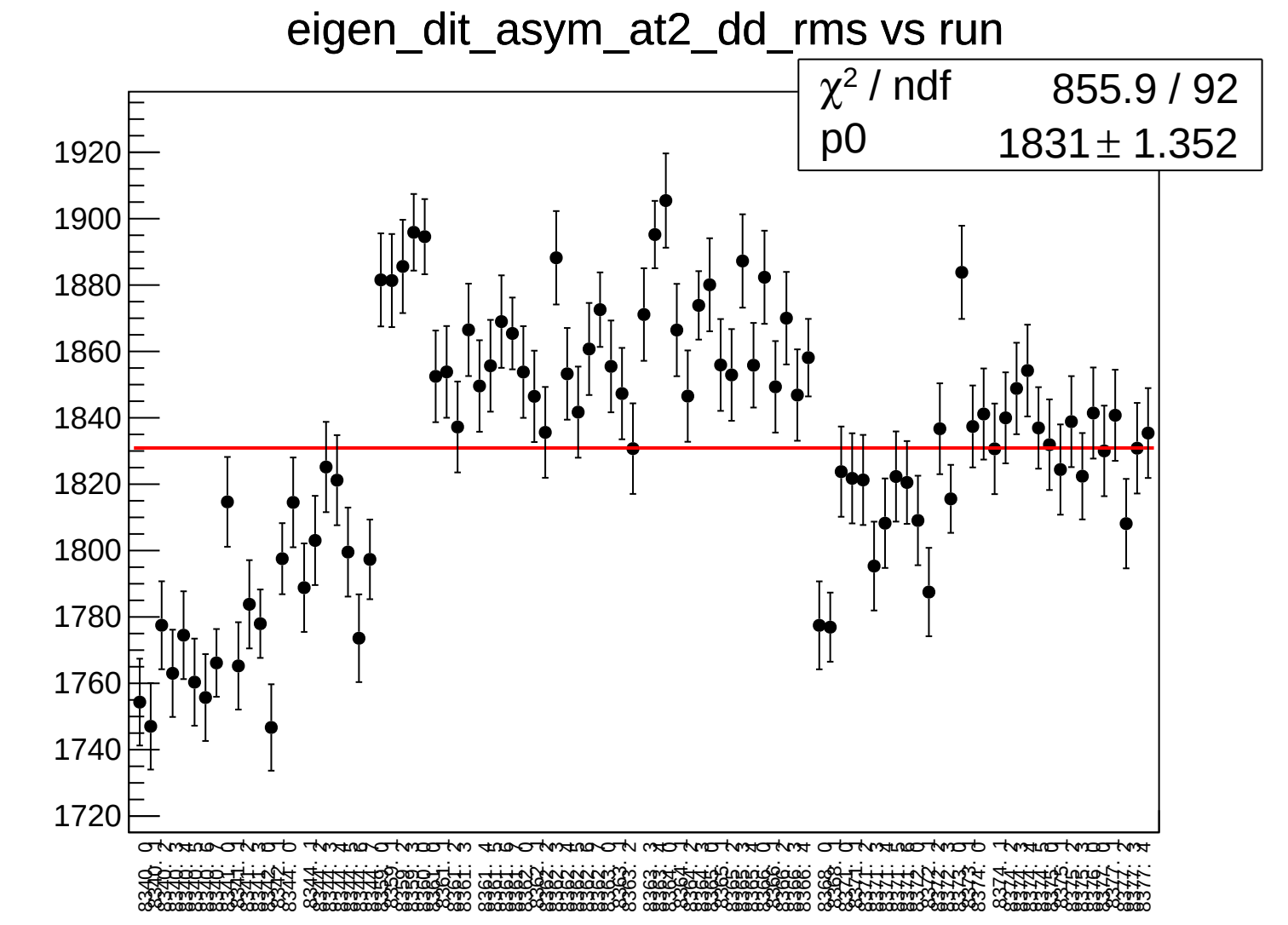

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.5 / 92
p0 1519 ± 2720
100
50
0
−50
−100
pull
Entries 93
Mean −243.8
Std Dev 0
2
1
0
−1
−2

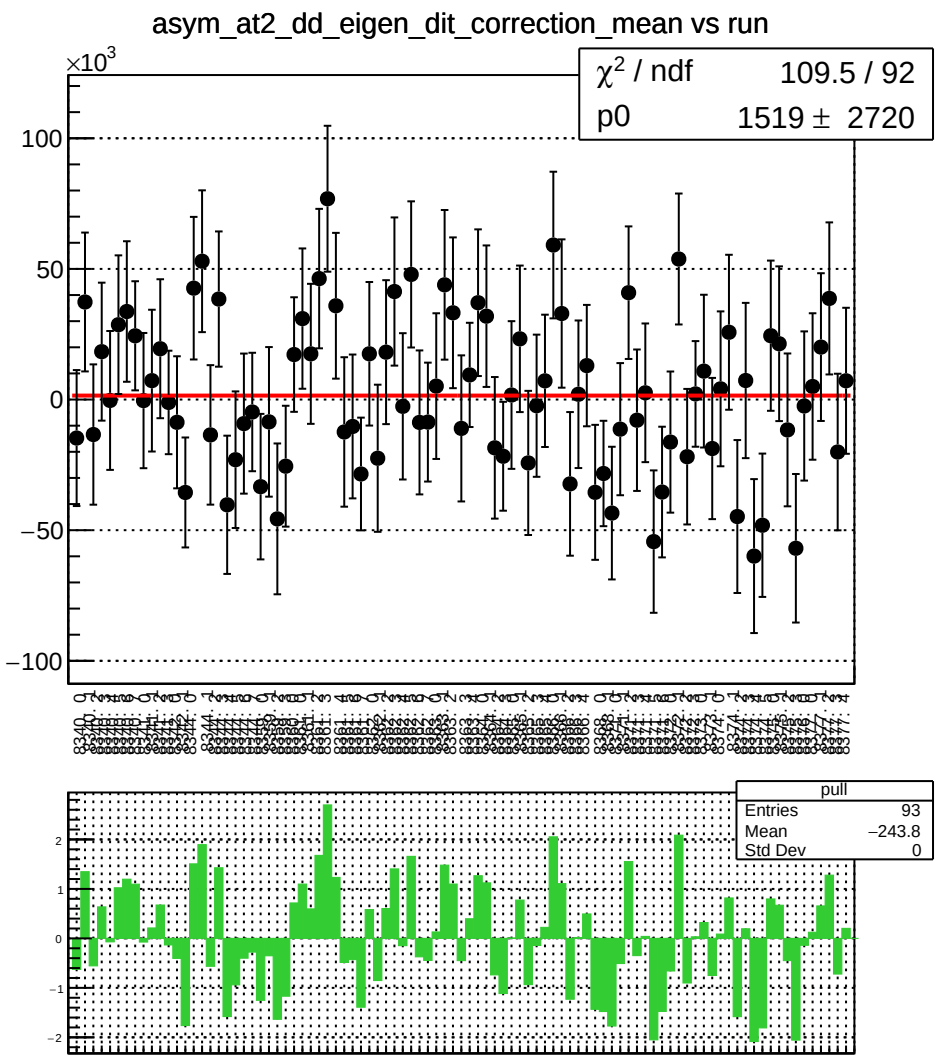

pull1D
Entries 93
Mean 0.01687
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

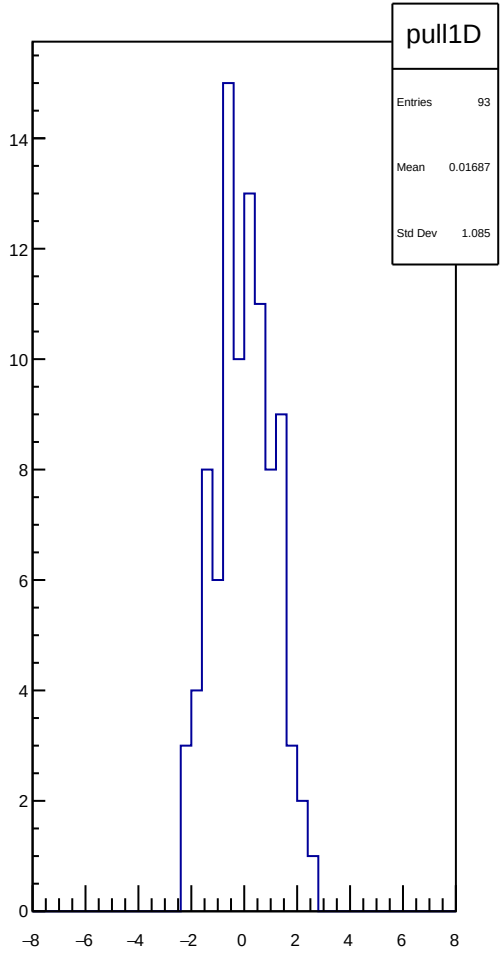

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3736 / 92
p0 2602 ± 1.923
2900
2800
2700
2600
2500
2400

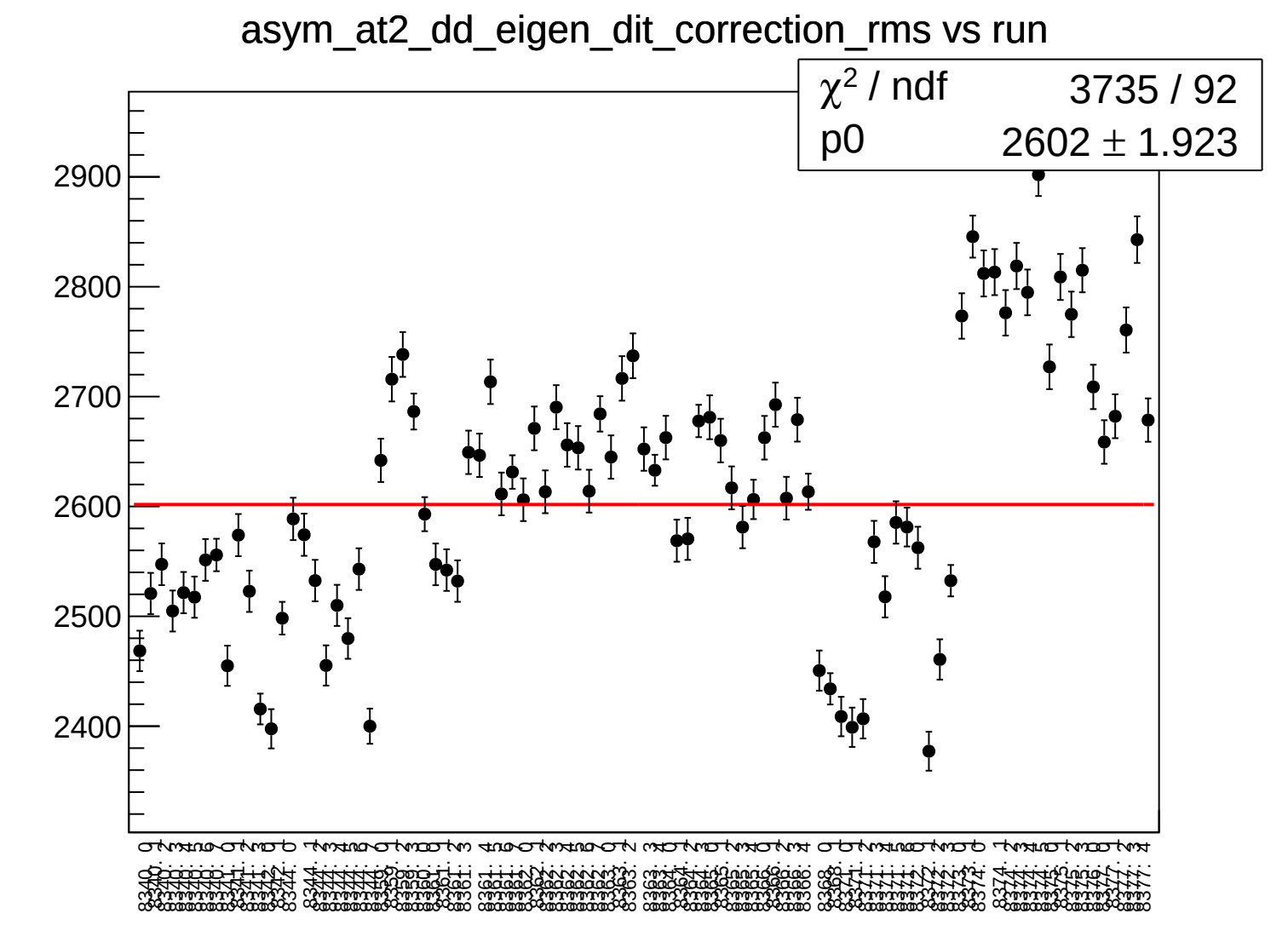

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 85.11 / 92
p0 1421 ± 1913
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −229.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

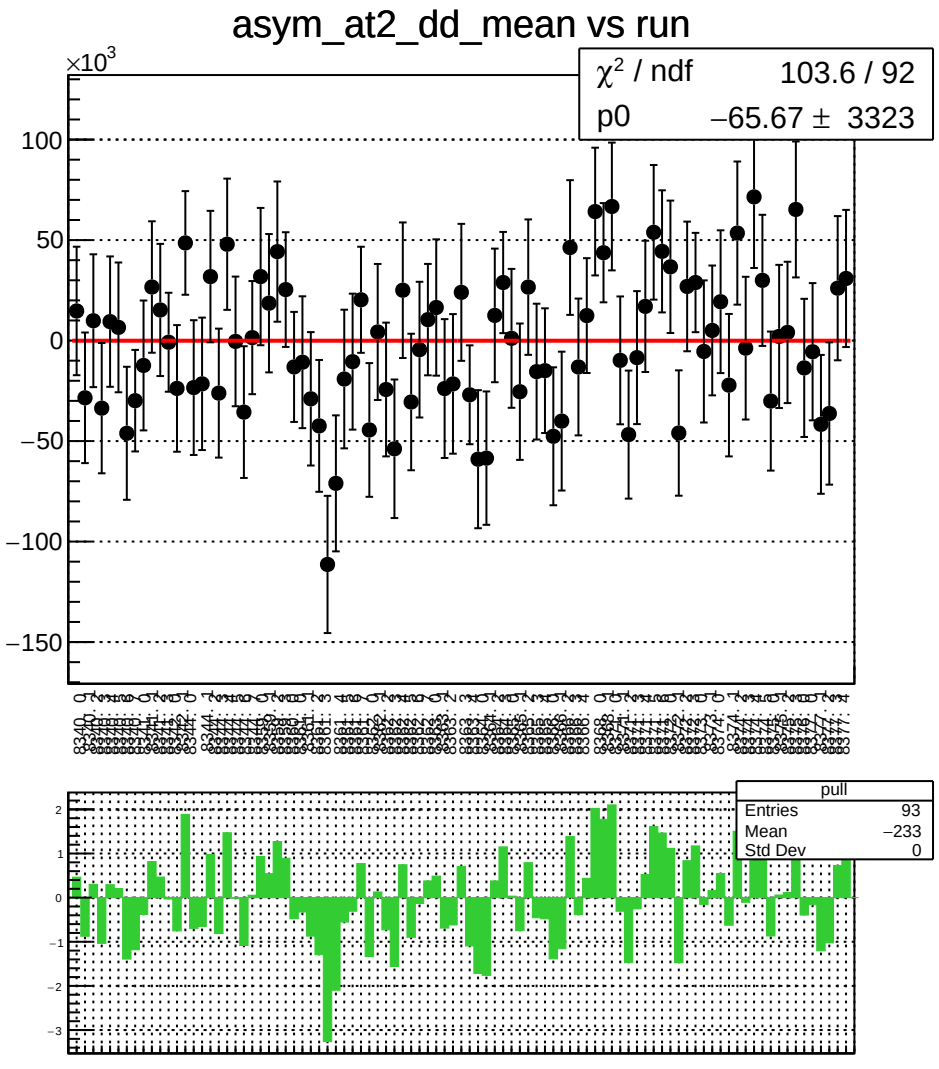

pull1D
Entries 93
Mean −0.008042
Std Dev 0.9566
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

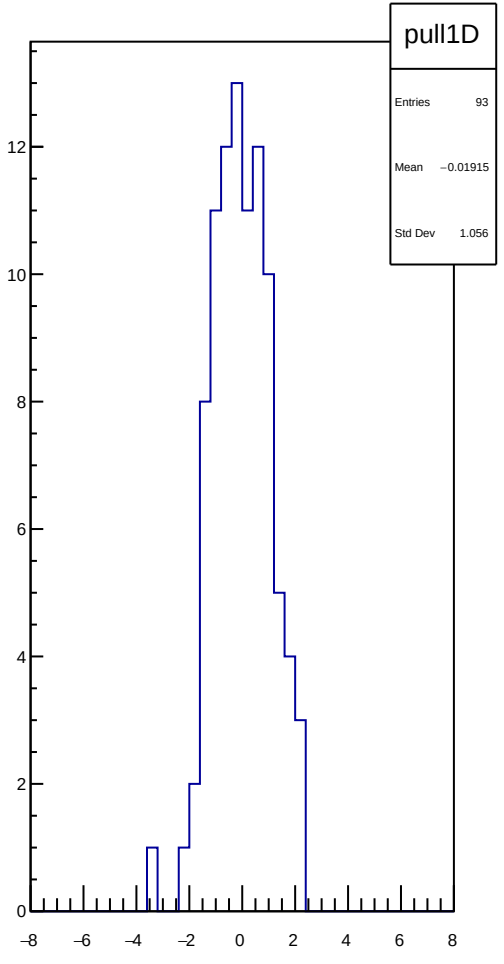

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 855.9 / 92
p0 1831 ± 1.352
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

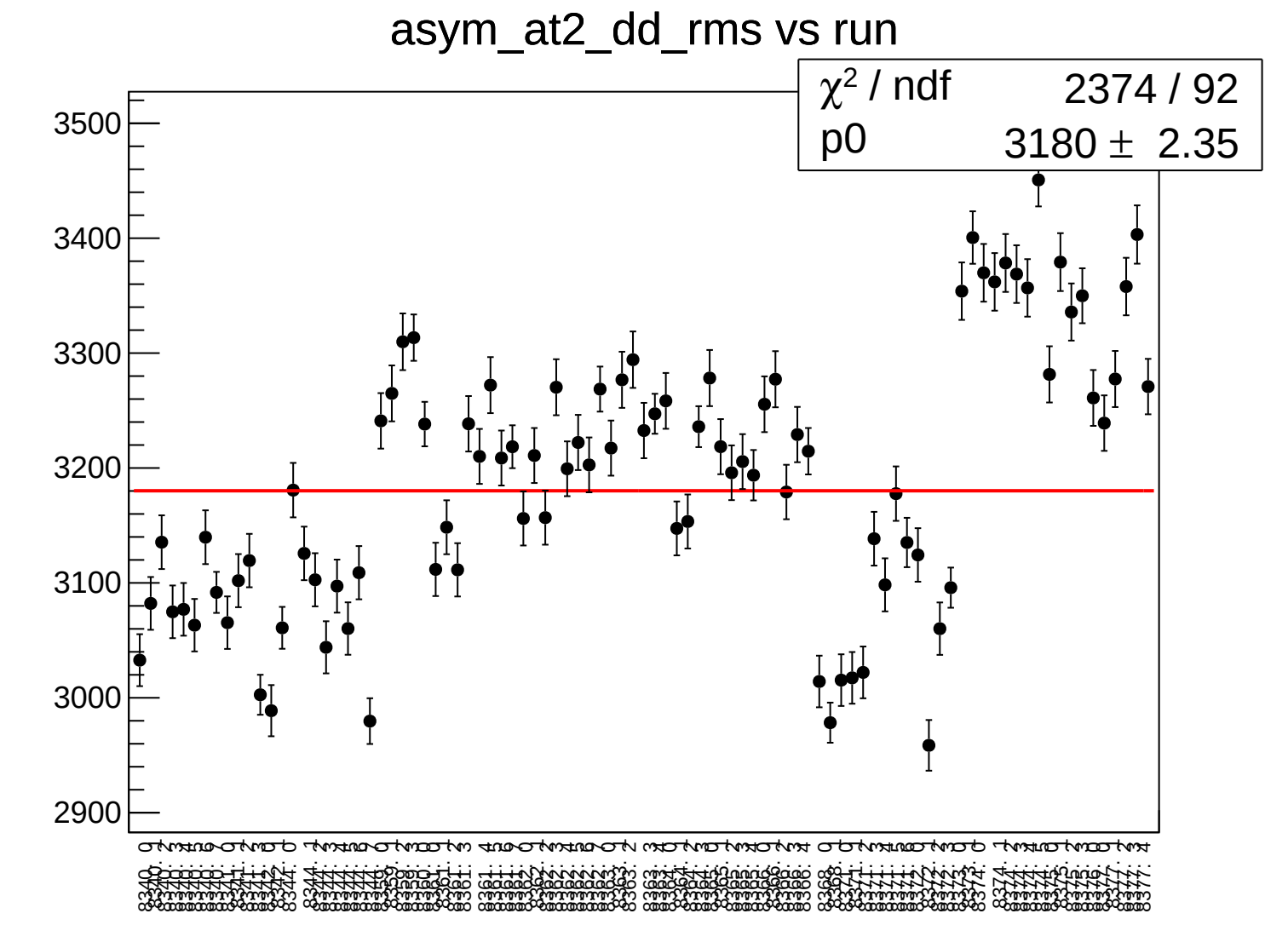

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.5 / 92
p0 1519 ± 2720
100
50
0
−50
−100
pull
Entries 93
Mean −243.8
Std Dev 0
2
1
0
−1
−2

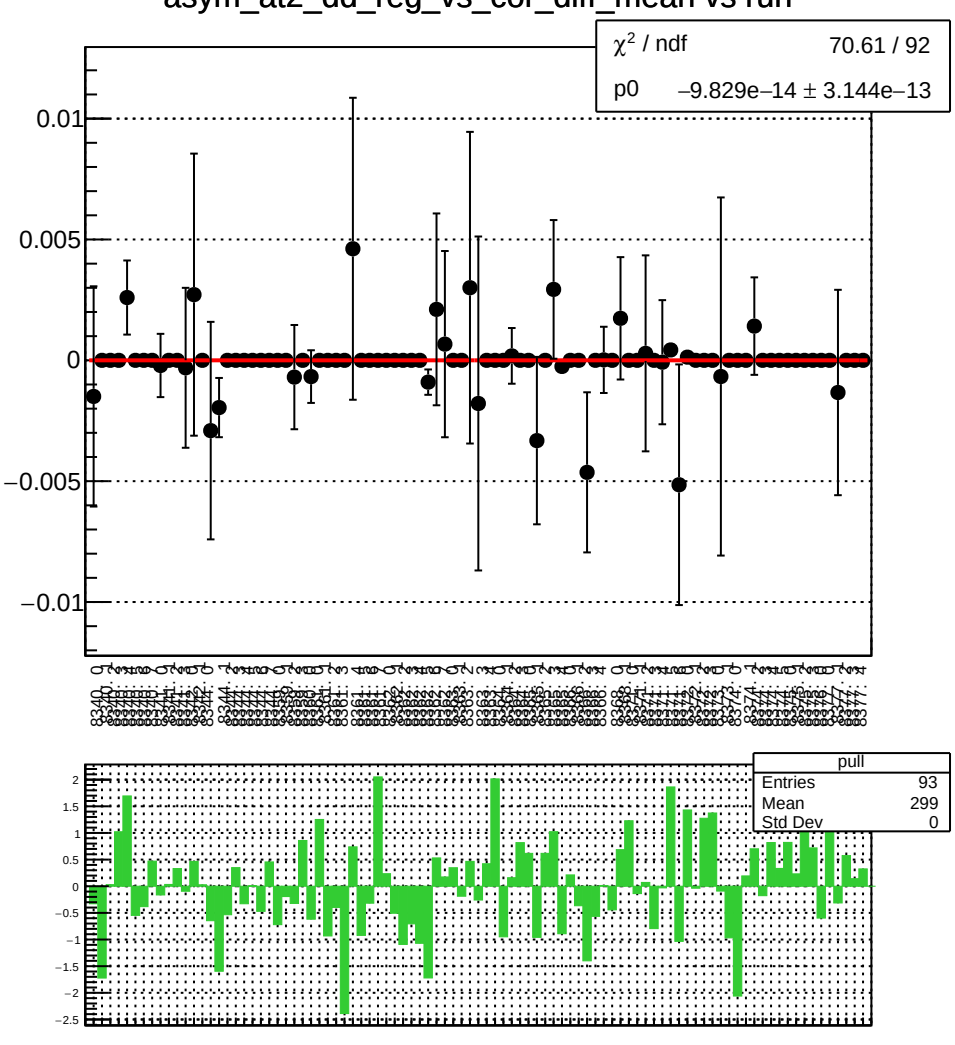

pull1D
Entries 93
Mean 0.01687
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

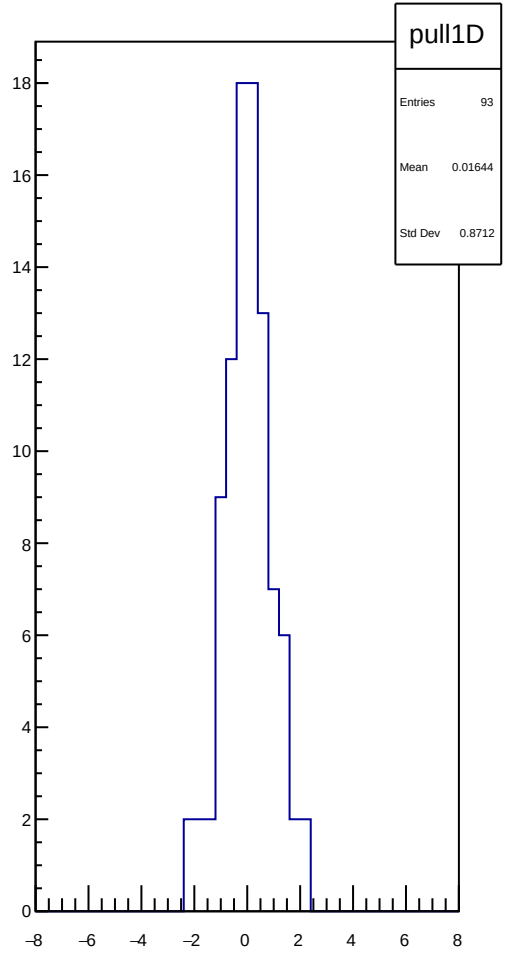

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3735 / 92
p0 2602 ± 1.923
2900
2800
2700
2600
2500
2400

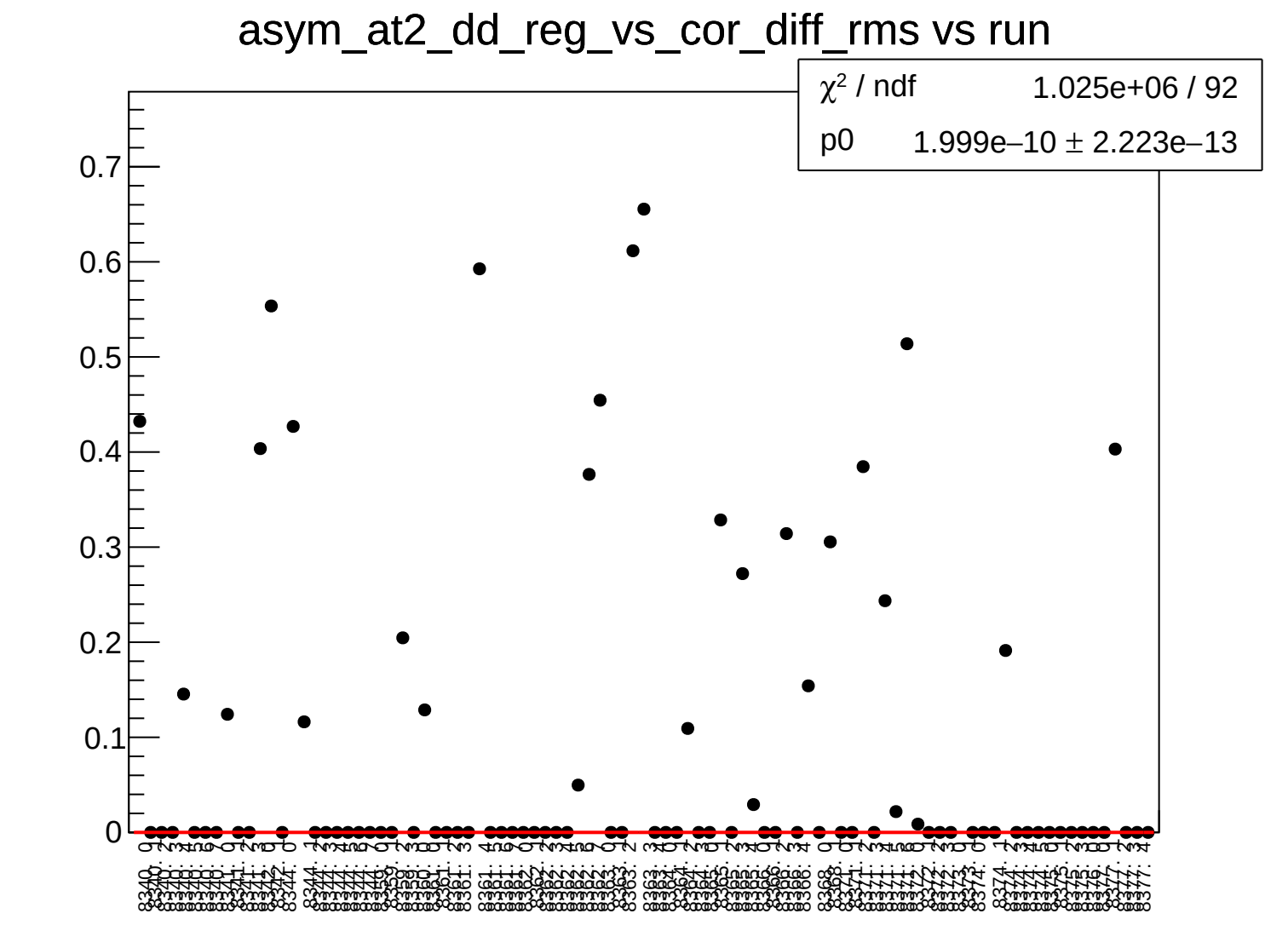

asym_at2_dd_mean vs run
×10^3
χ² / ndf 103.6 / 92
p0 −65.67 ± 3323
100
50
0
−50
−100
−150
pull
Entries 93
Mean −233
Std Dev 0
2
1
0
−1
−2
−3

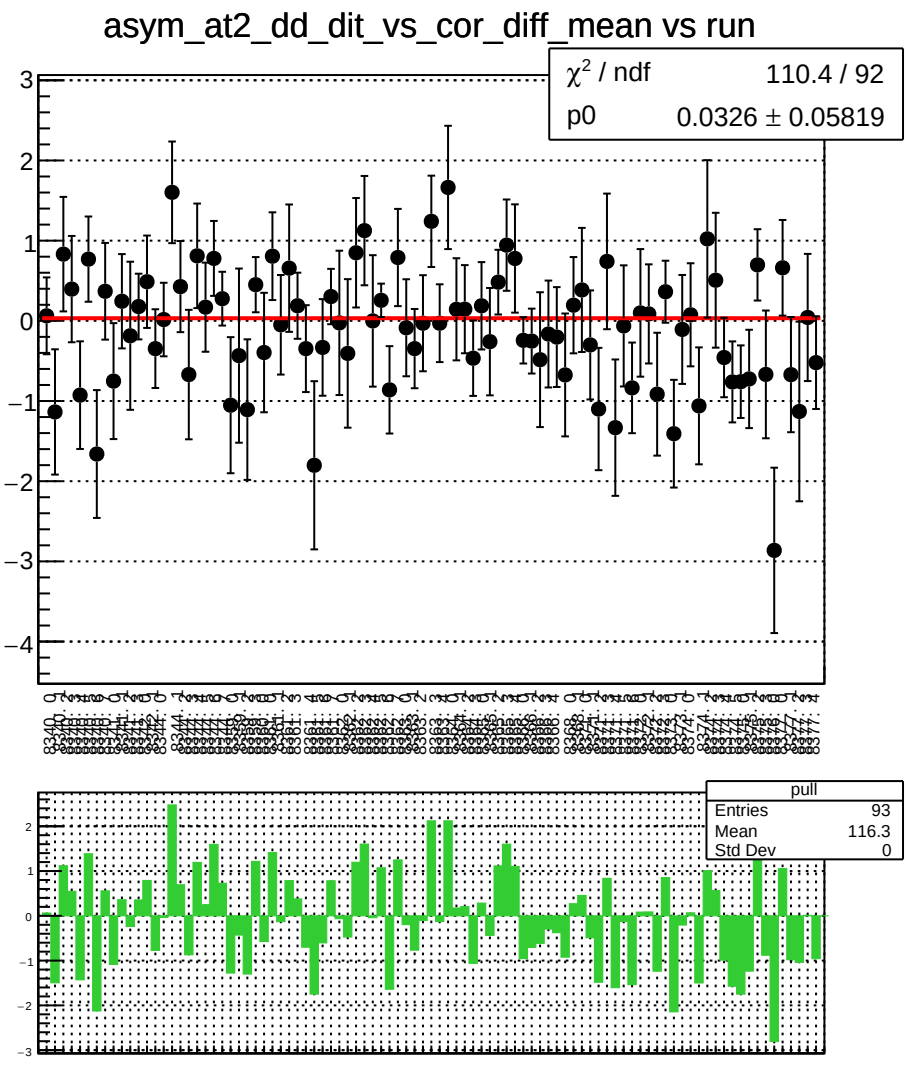

pull1D
Entries 93
Mean −0.01915
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

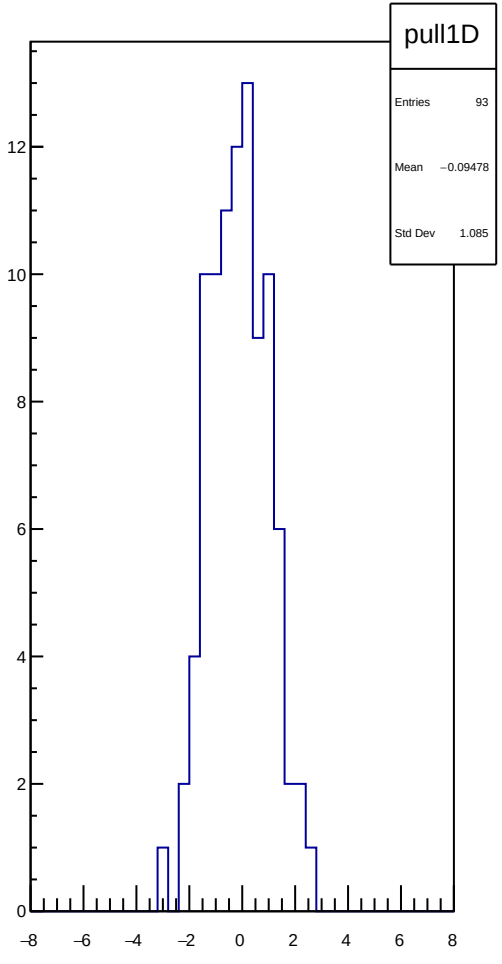

asym_at2_dd_rms vs run
χ² / ndf 2374 / 92
p0 3180 ± 2.35
3500
3400
3300
3200
3100
3000
2900

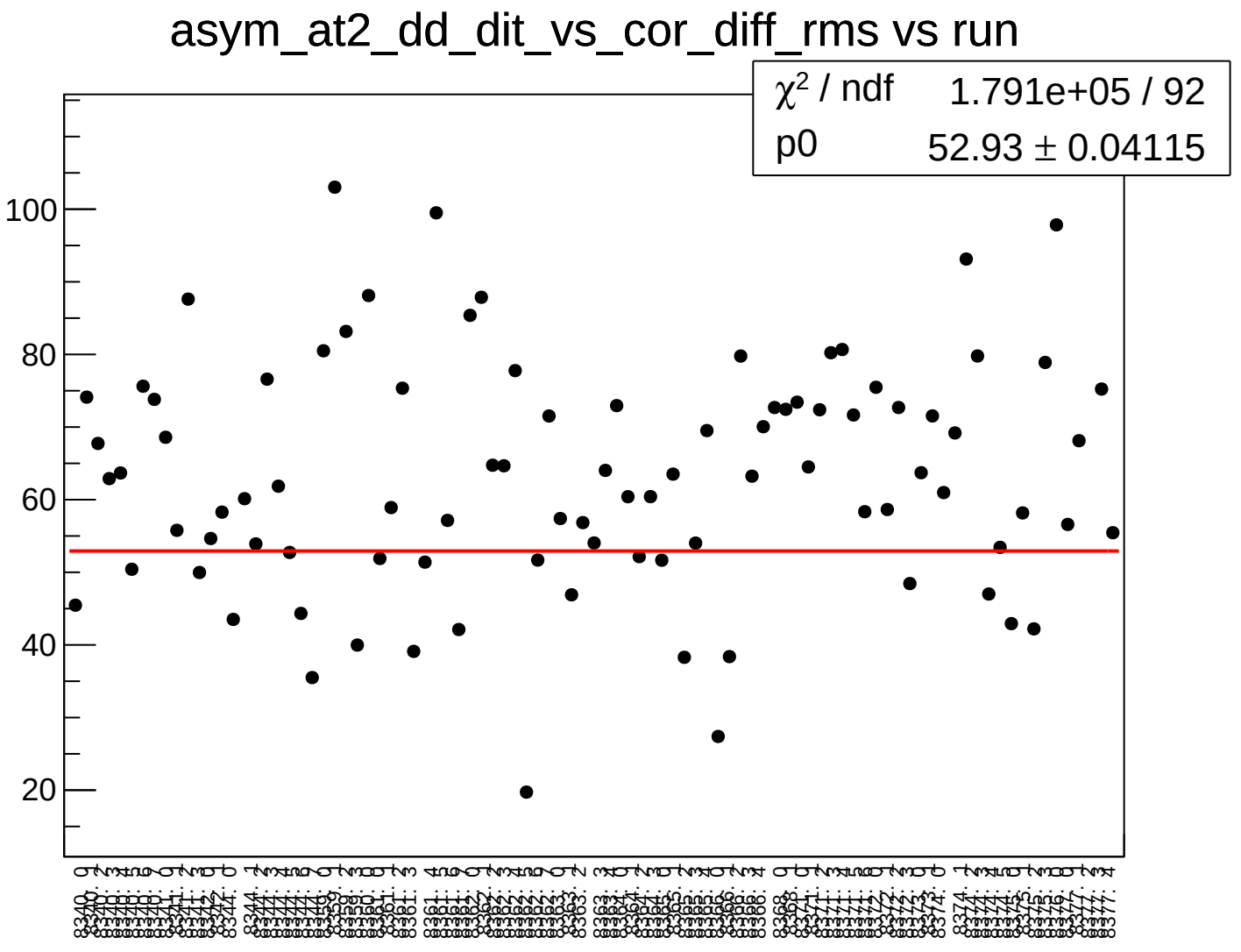

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.61 / 92
p0 −9.829e−14 ± 3.144e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 299
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

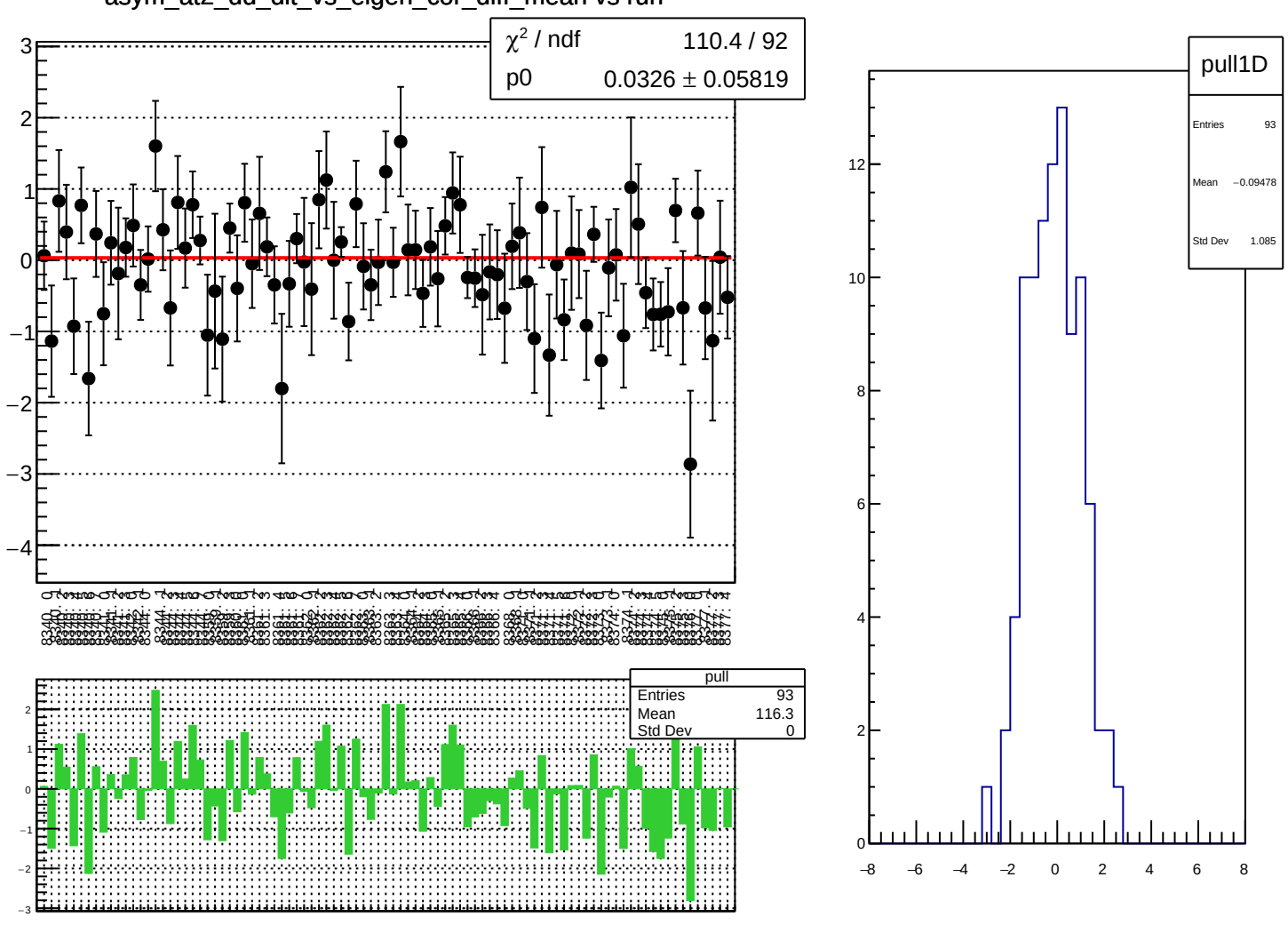

pull1D
Entries 93
Mean 0.01644
Std Dev 0.8712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

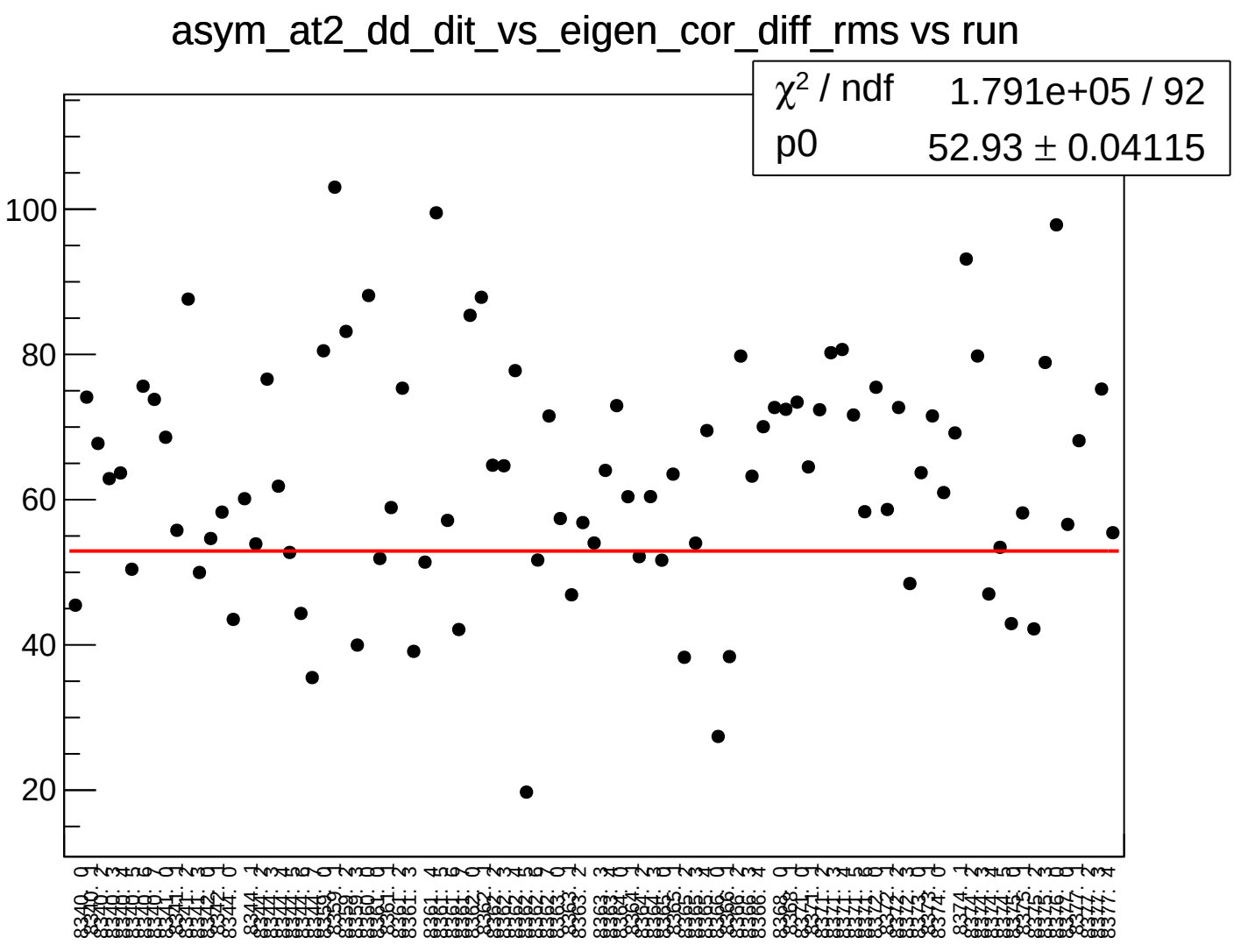

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 92
p0 1.999e−10 ± 2.223e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

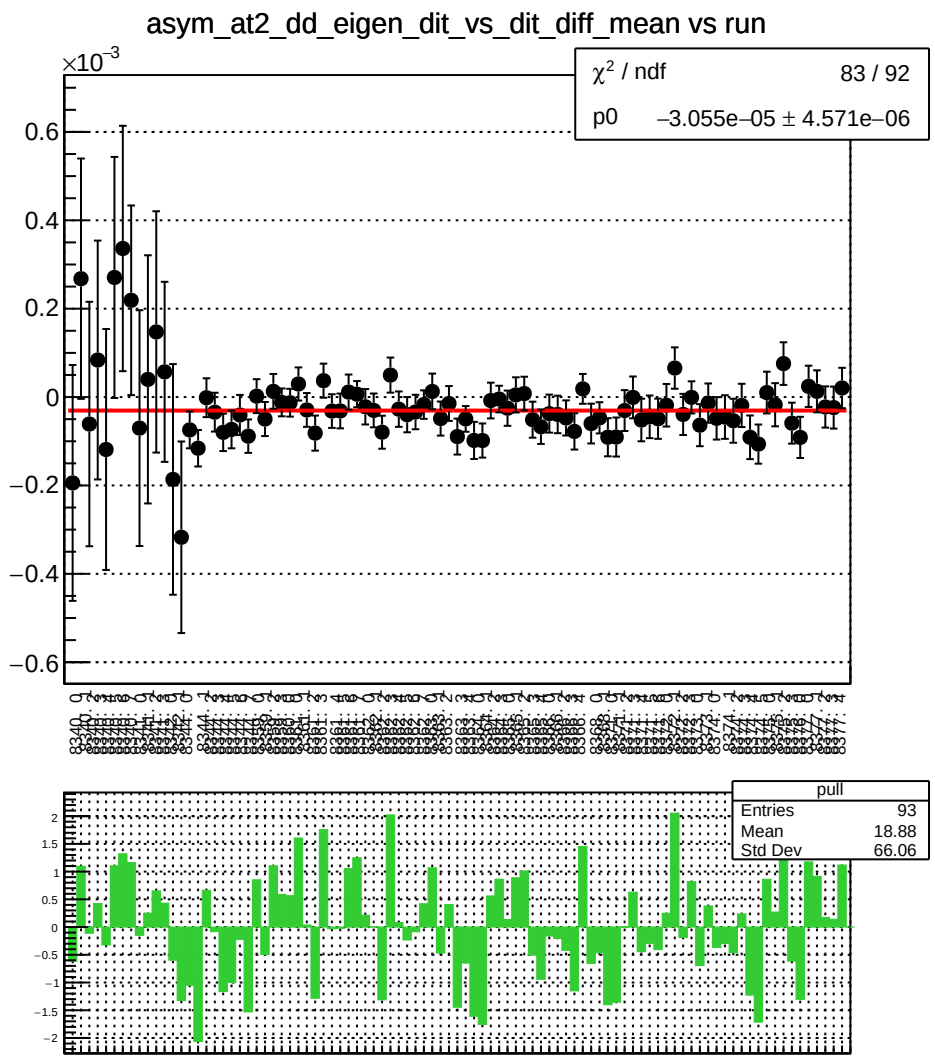

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 92
p0 0.0326 ± 0.05819
pull
Entries 93
Mean 116.3
Std Dev 0

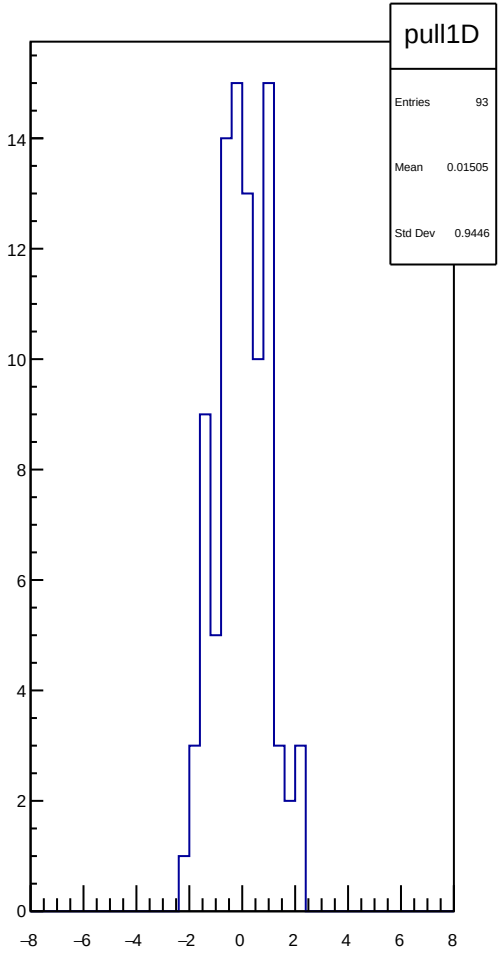

pull1D
Entries 93
Mean −0.09478
Std Dev 1.085

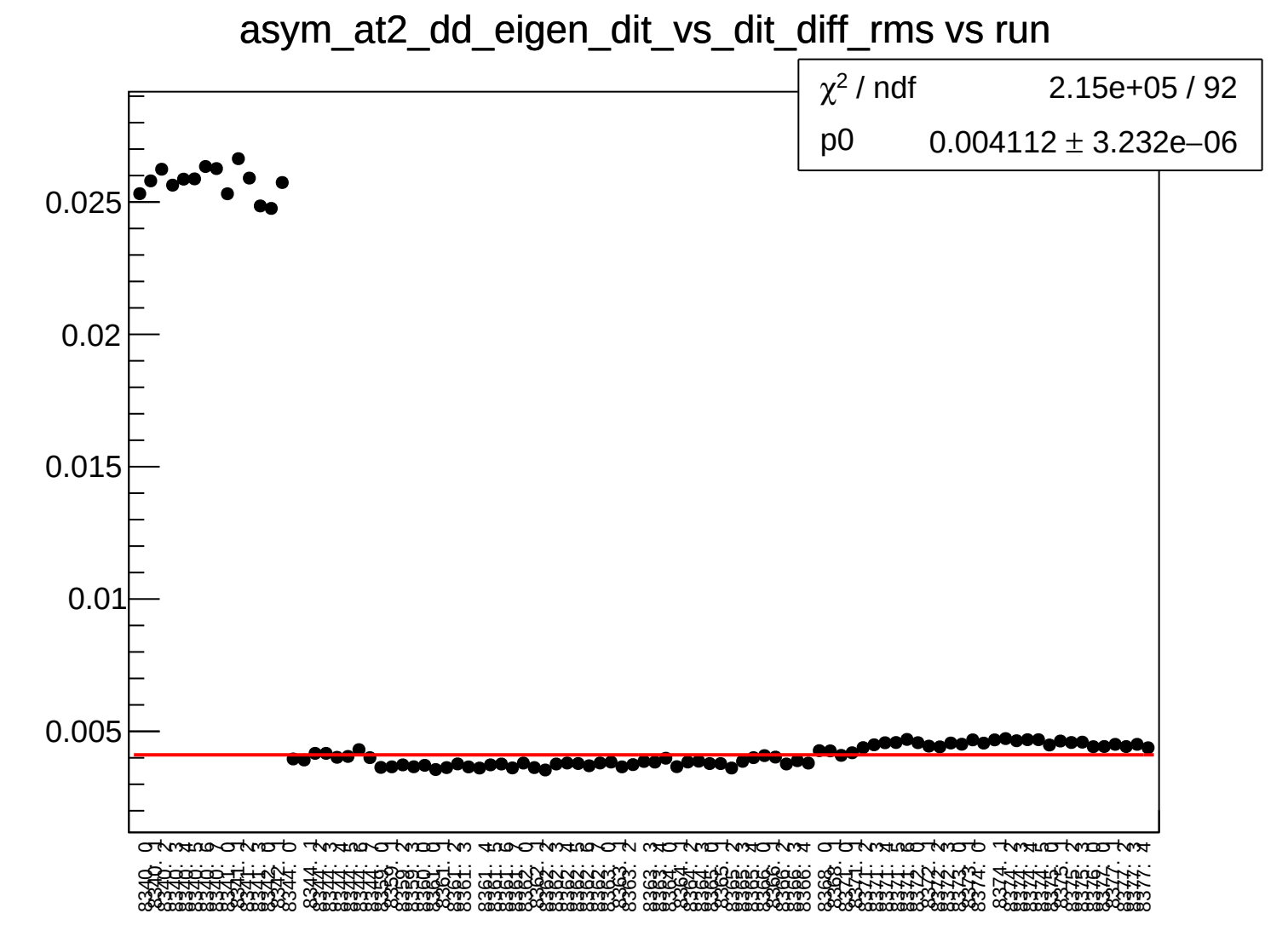

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 92
p0 52.93 ± 0.04115
100
80
60
40
20

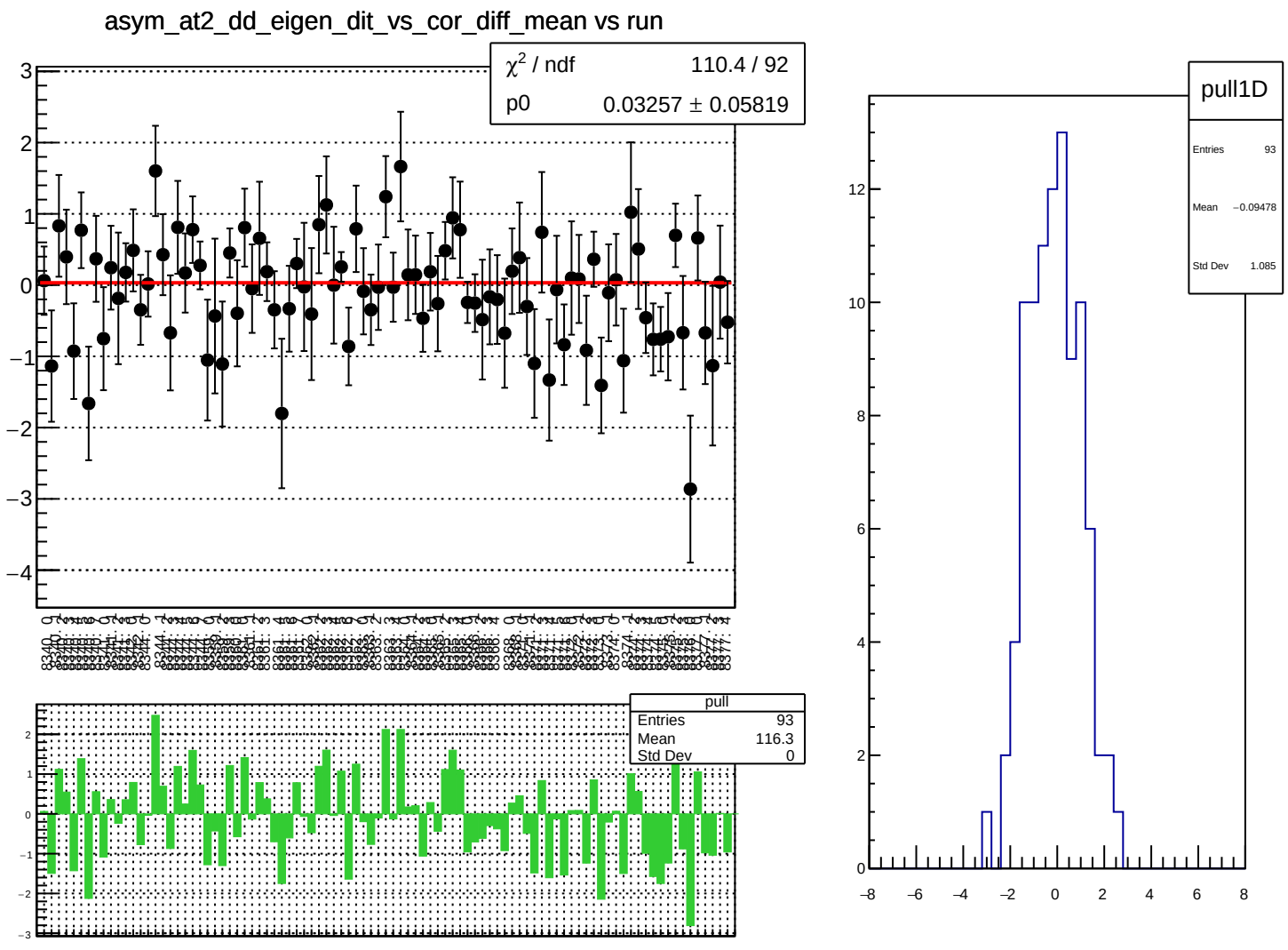

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 92
p0 0.0326 ± 0.05819
pull
Entries 93
Mean 116.3
Std Dev 0
pull1D
Entries 93
Mean −0.09478
Std Dev 1.085

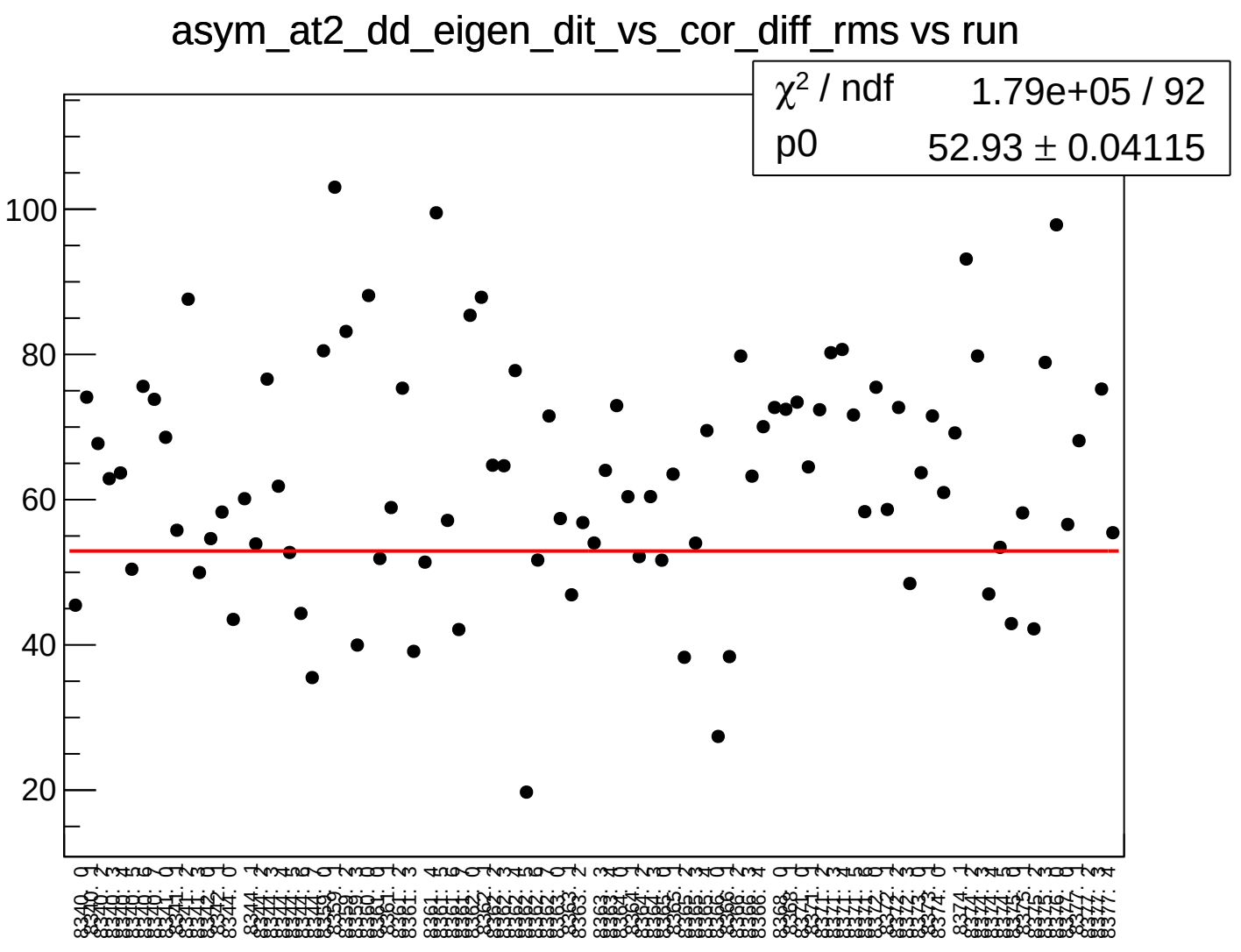

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.791e+05 / 92
p0 52.93 ± 0.04115
100
80
60
40
20

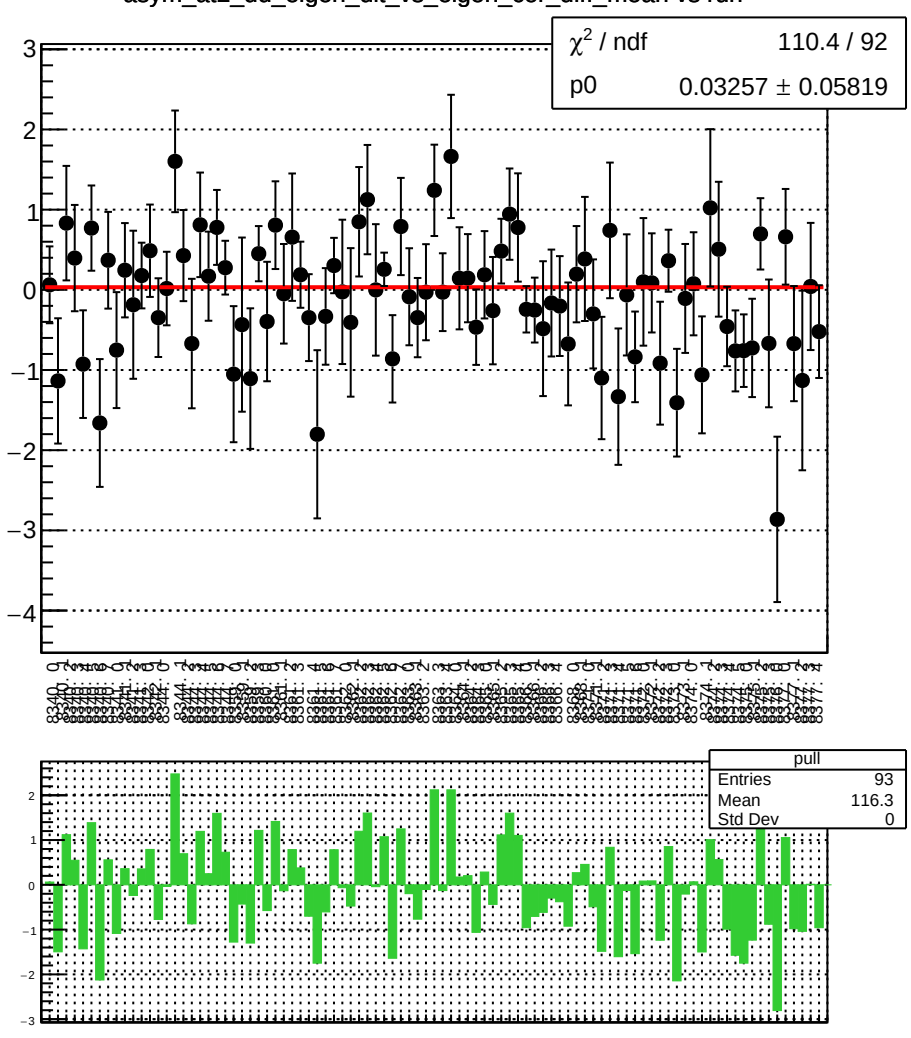

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 83 / 92
p0 −3.055e−05 ± 4.571e−06
pull
Entries 93
Mean 18.88
Std Dev 66.06

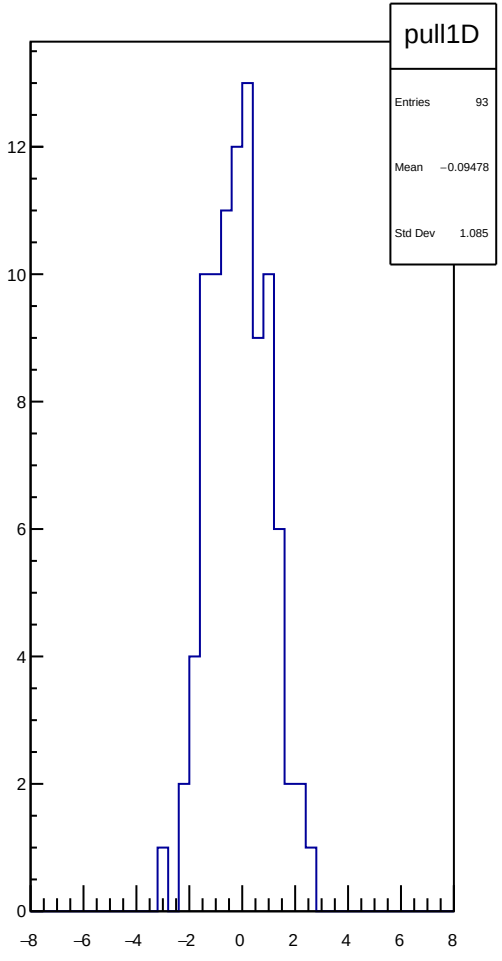

pull1D
Entries 93
Mean 0.01505
Std Dev 0.9446

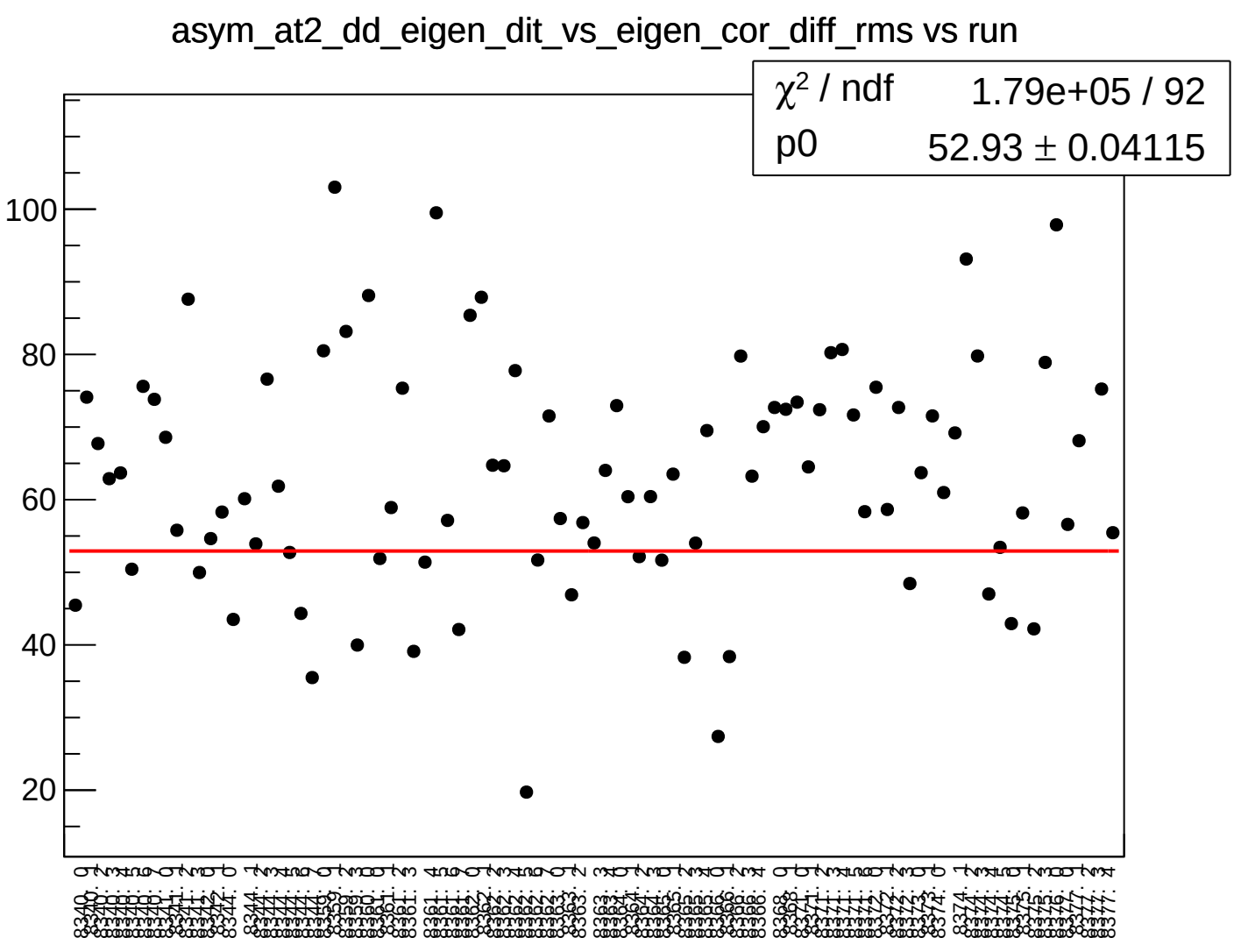

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.15e+05 / 92
p0 0.004112 ± 3.232e−06
0.025
0.02
0.015
0.01
0.005

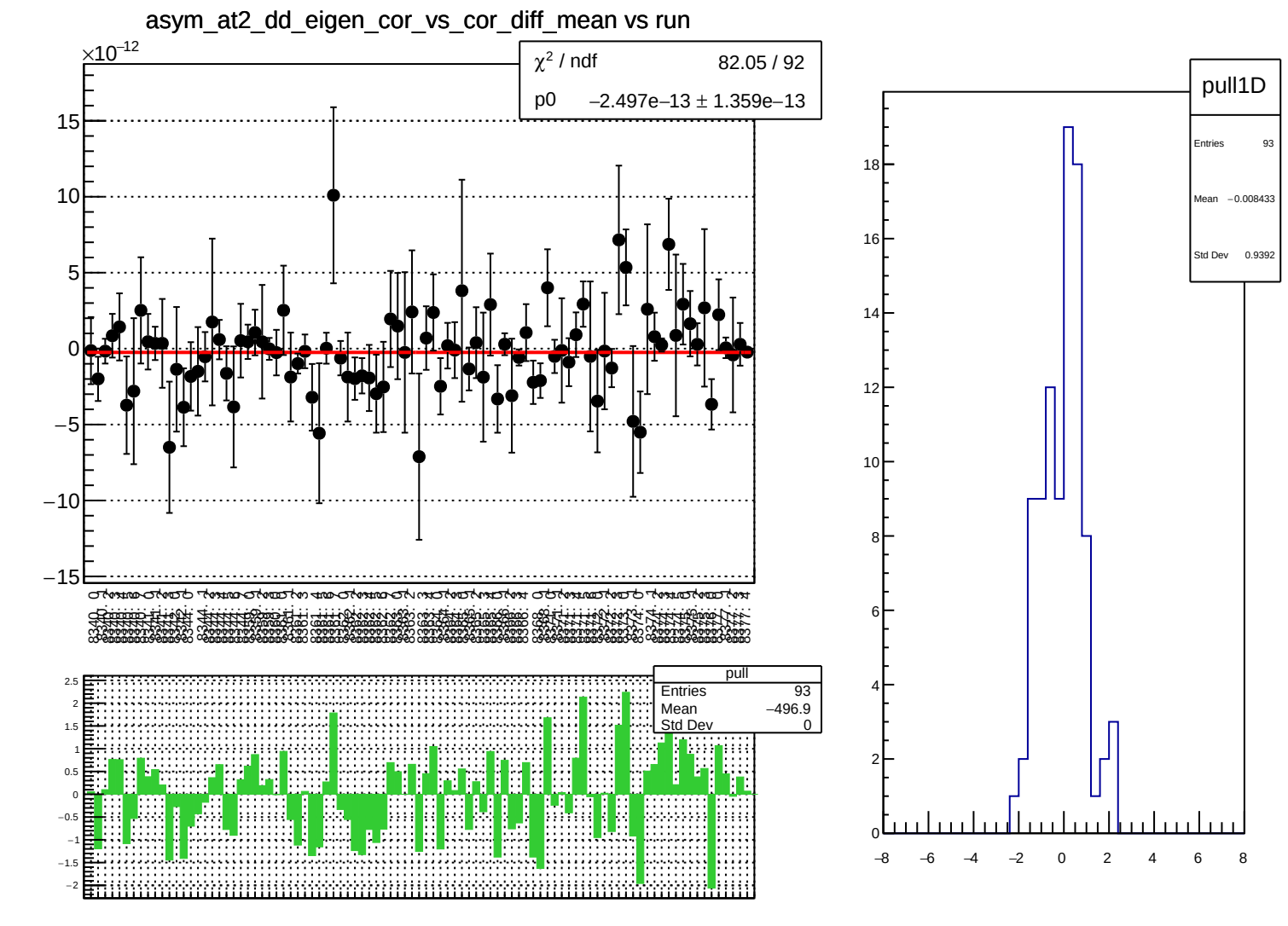

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.4 / 92
p0 0.03257 ± 0.05819
pull
Entries 93
Mean 116.3
Std Dev 0
pull1D
Entries 93
Mean −0.09478
Std Dev 1.085

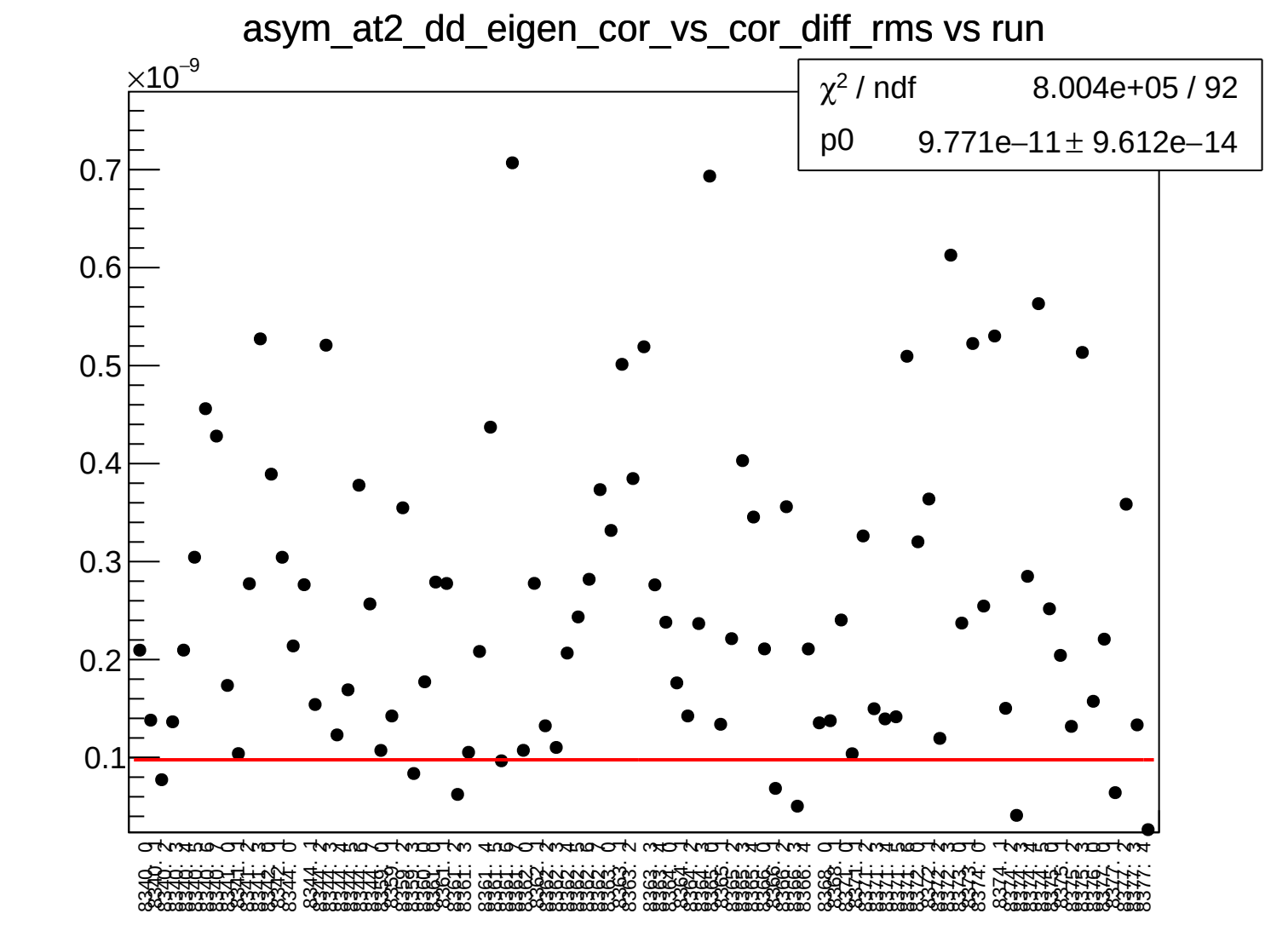

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 92
p0 52.93 ± 0.04115
100
80
60
40
20

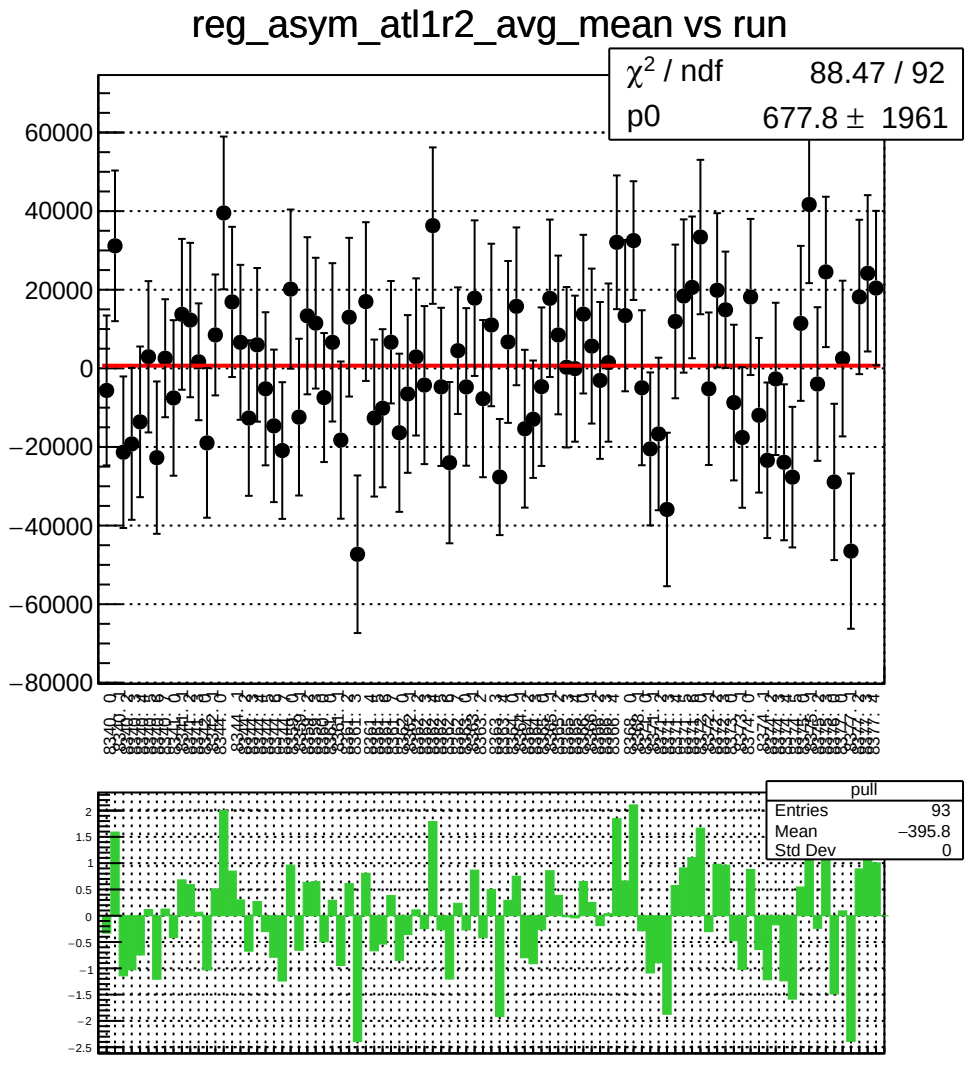

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.4 / 92
p0 0.03257 ± 0.05819
pull
Entries 93
Mean 116.3
Std Dev 0

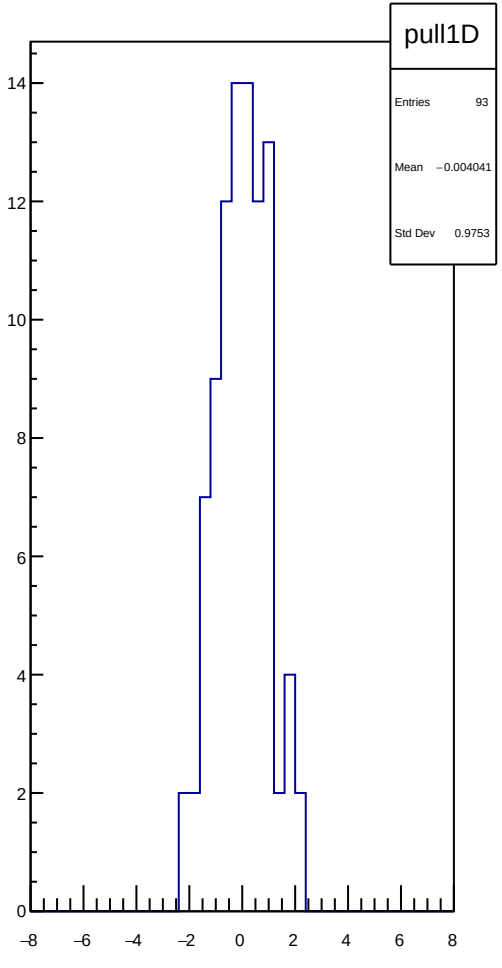

pull1D
Entries 93
Mean −0.09478
Std Dev 1.085

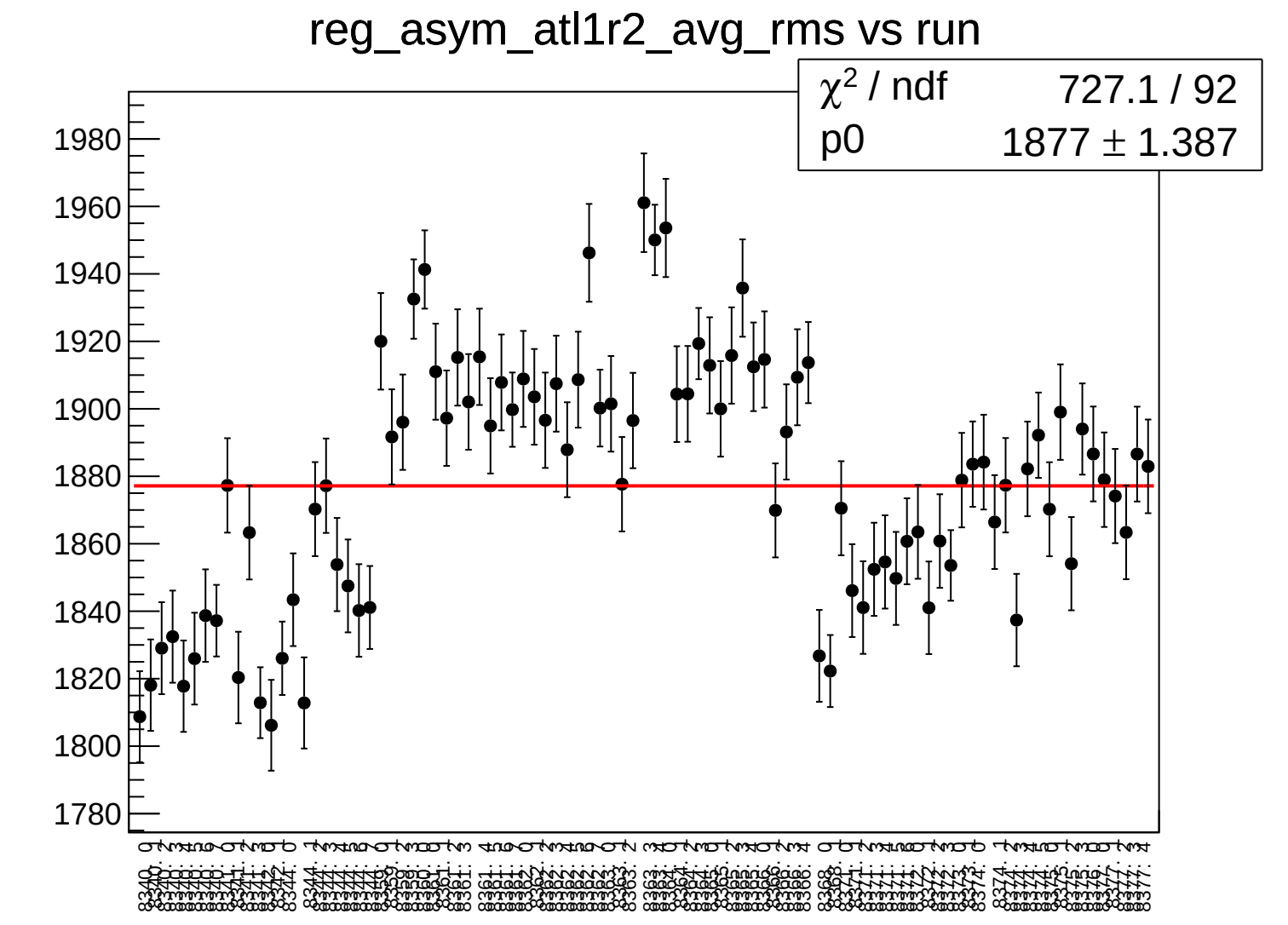

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 92
p0 52.93 ± 0.04115
100
80
60
40
20

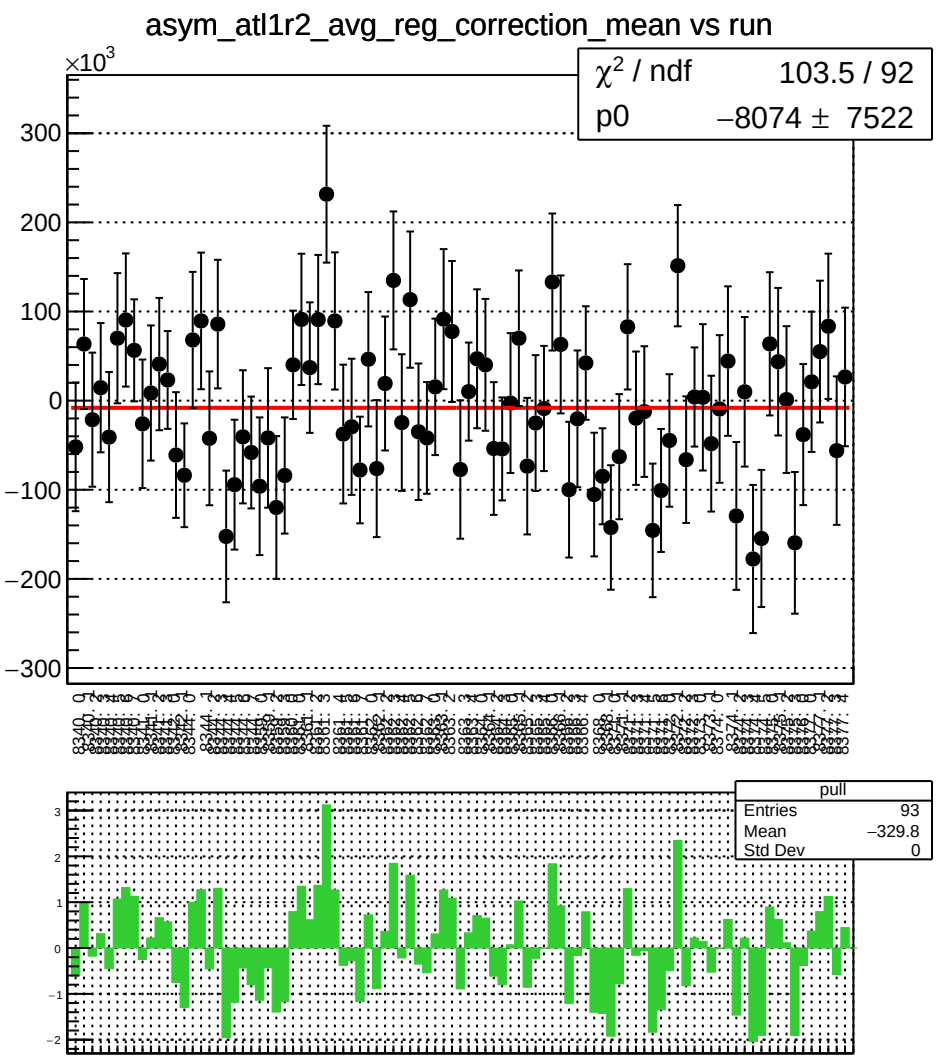

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.05 / 92
p0 −2.497e−13 ± 1.359e−13
15
10
5
0
−5
−10
−15
pull
Entries 93
Mean −496.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.008433
Std Dev 0.9392
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

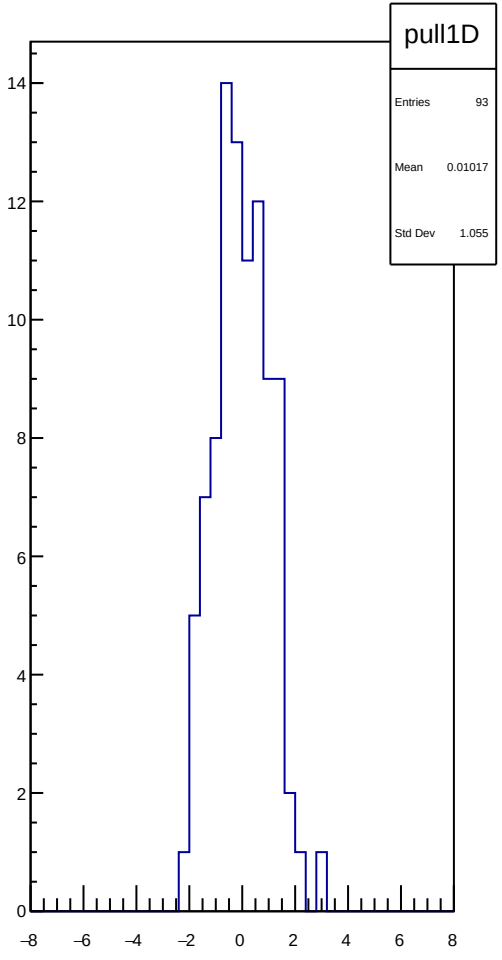

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.004e+05 / 92
p0 9.771e−11 ± 9.612e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

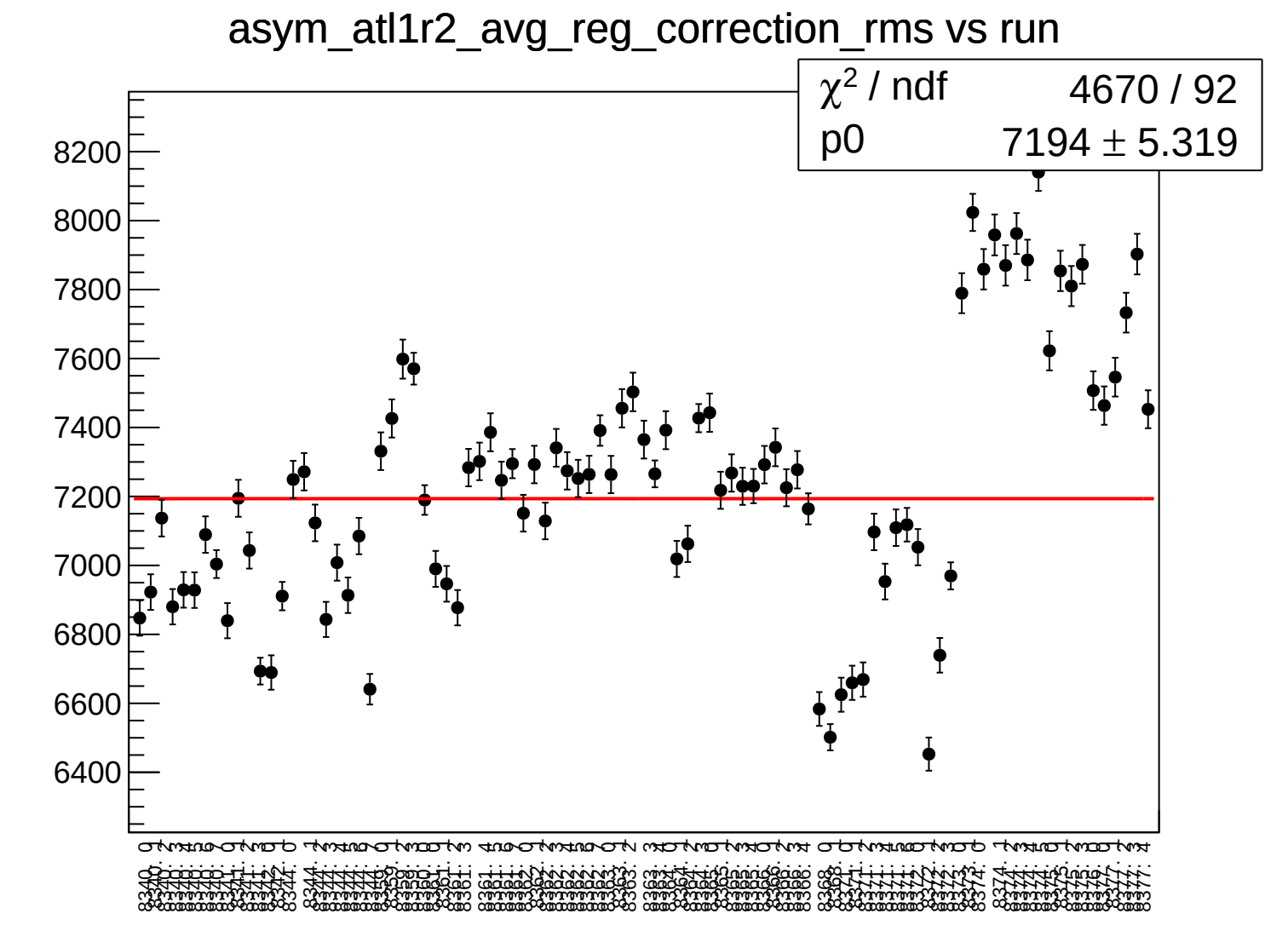

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.47 / 92
p0 677.8 ± 1961
pull
Entries 93
Mean −395.8
Std Dev 0

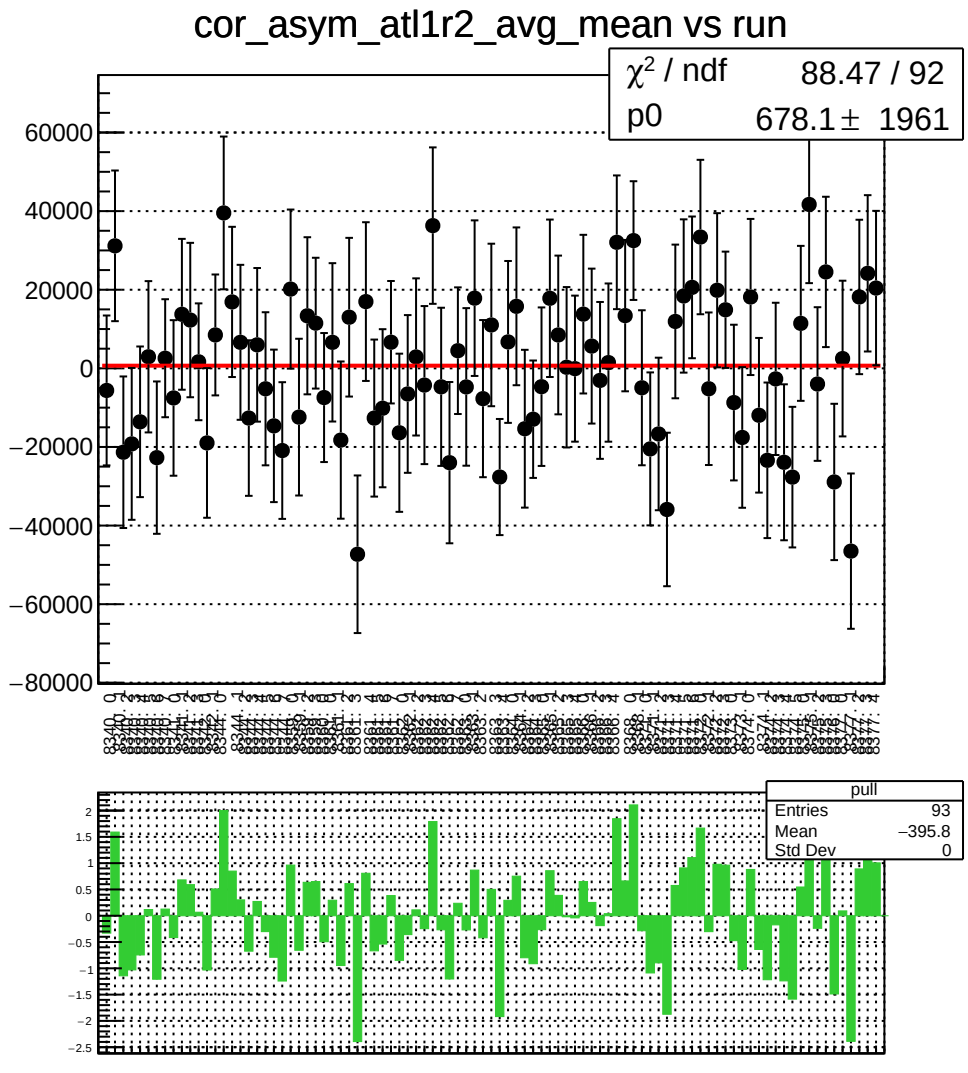

pull1D
Entries 93
Mean −0.004041
Std Dev 0.9753

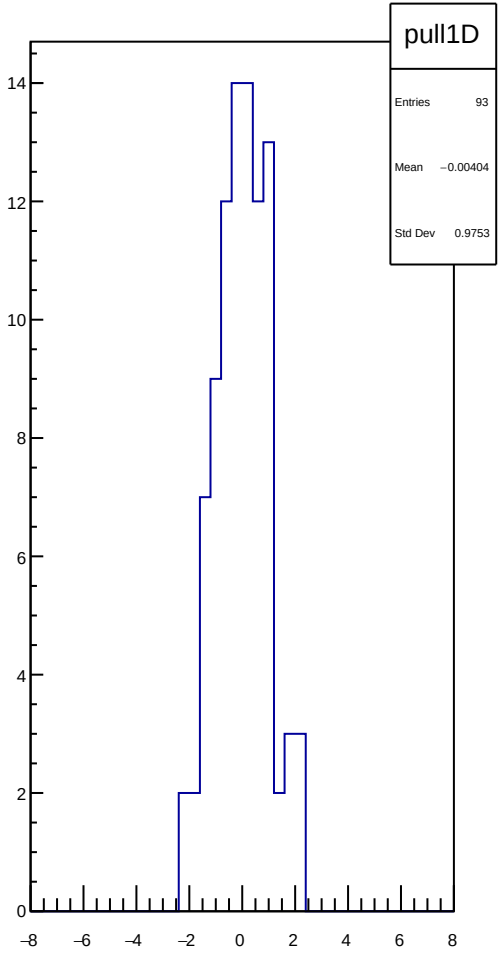

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 727.1 / 92
p0 1877 ± 1.387
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

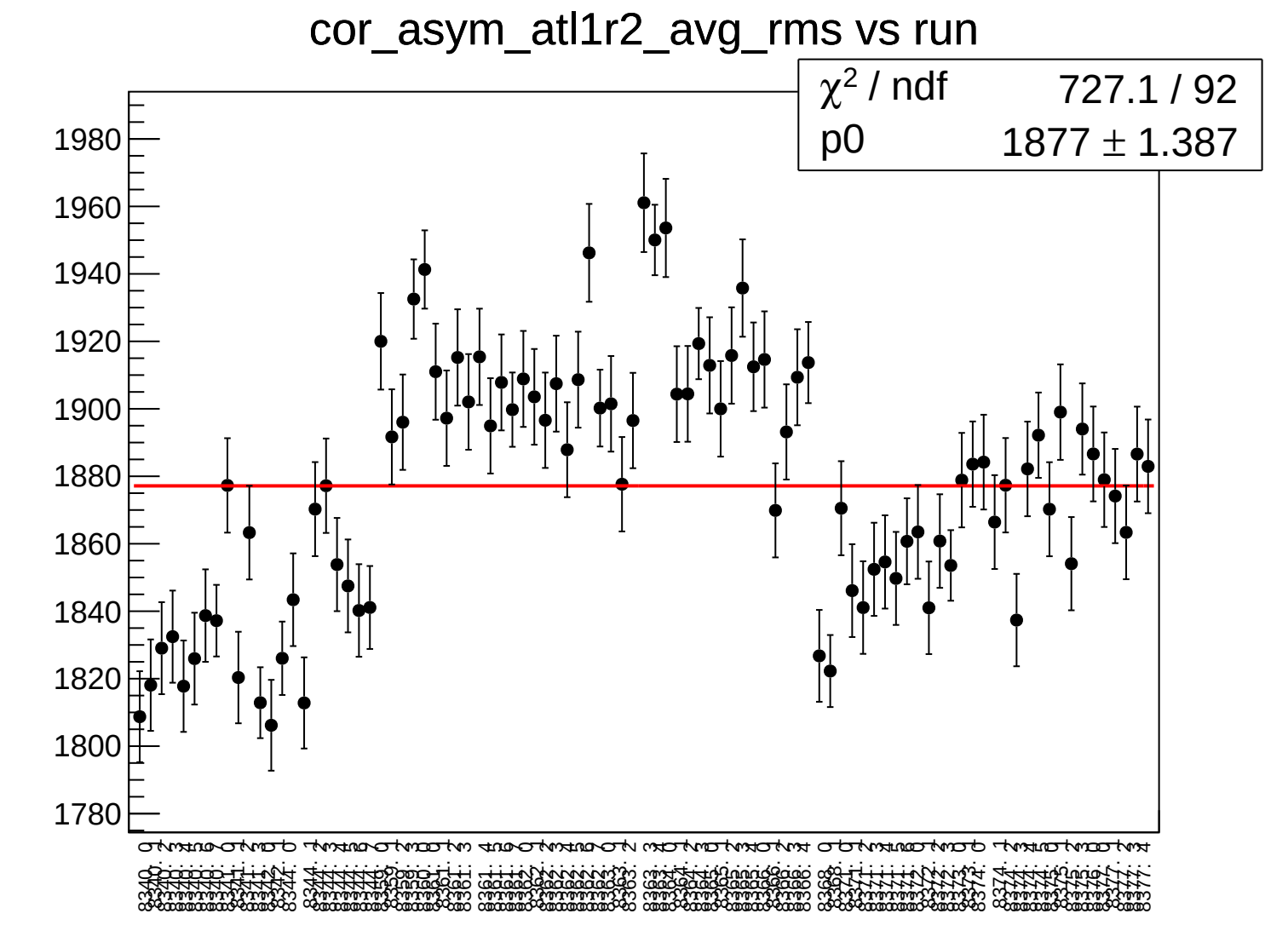

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.5 / 92
p0 −8074 ± 7522
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −329.8
Std Dev 0
3
2
1
0
−1
−2

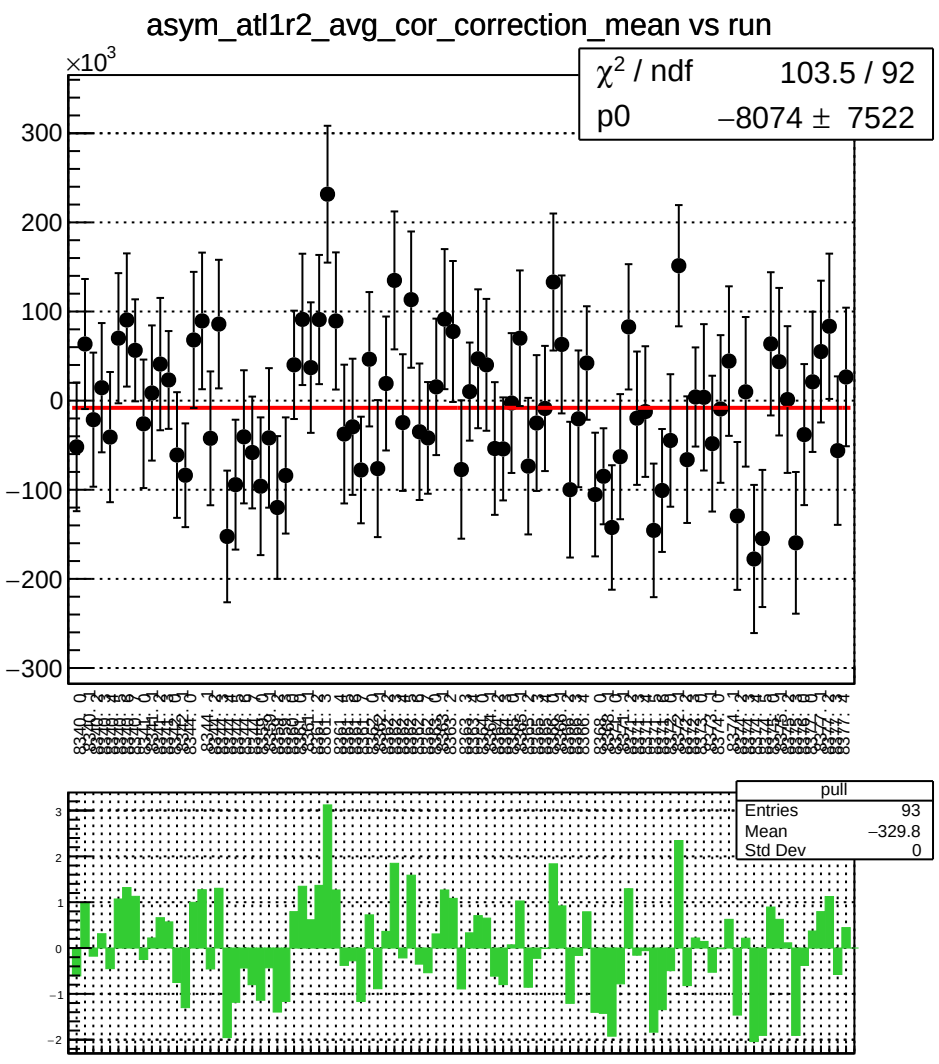

pull1D
Entries 93
Mean 0.01017
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

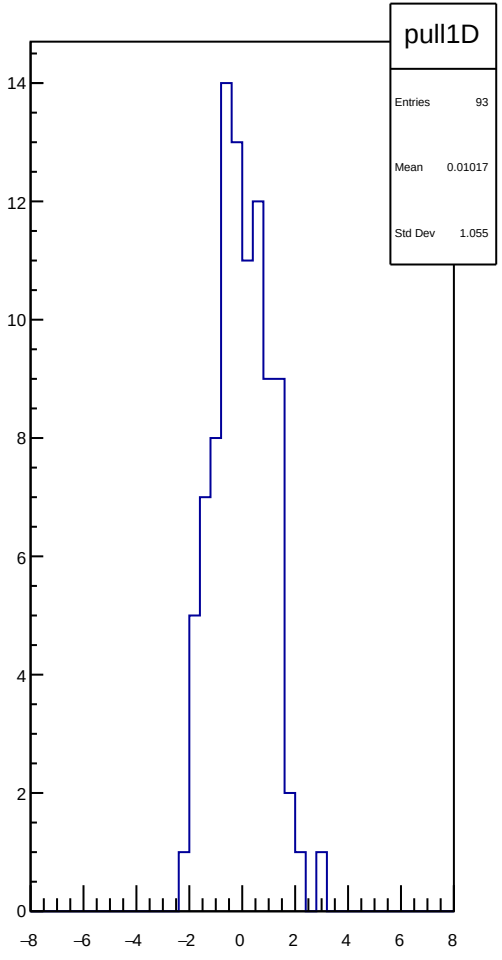

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4670 / 92
p0 7194 ± 5.319
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

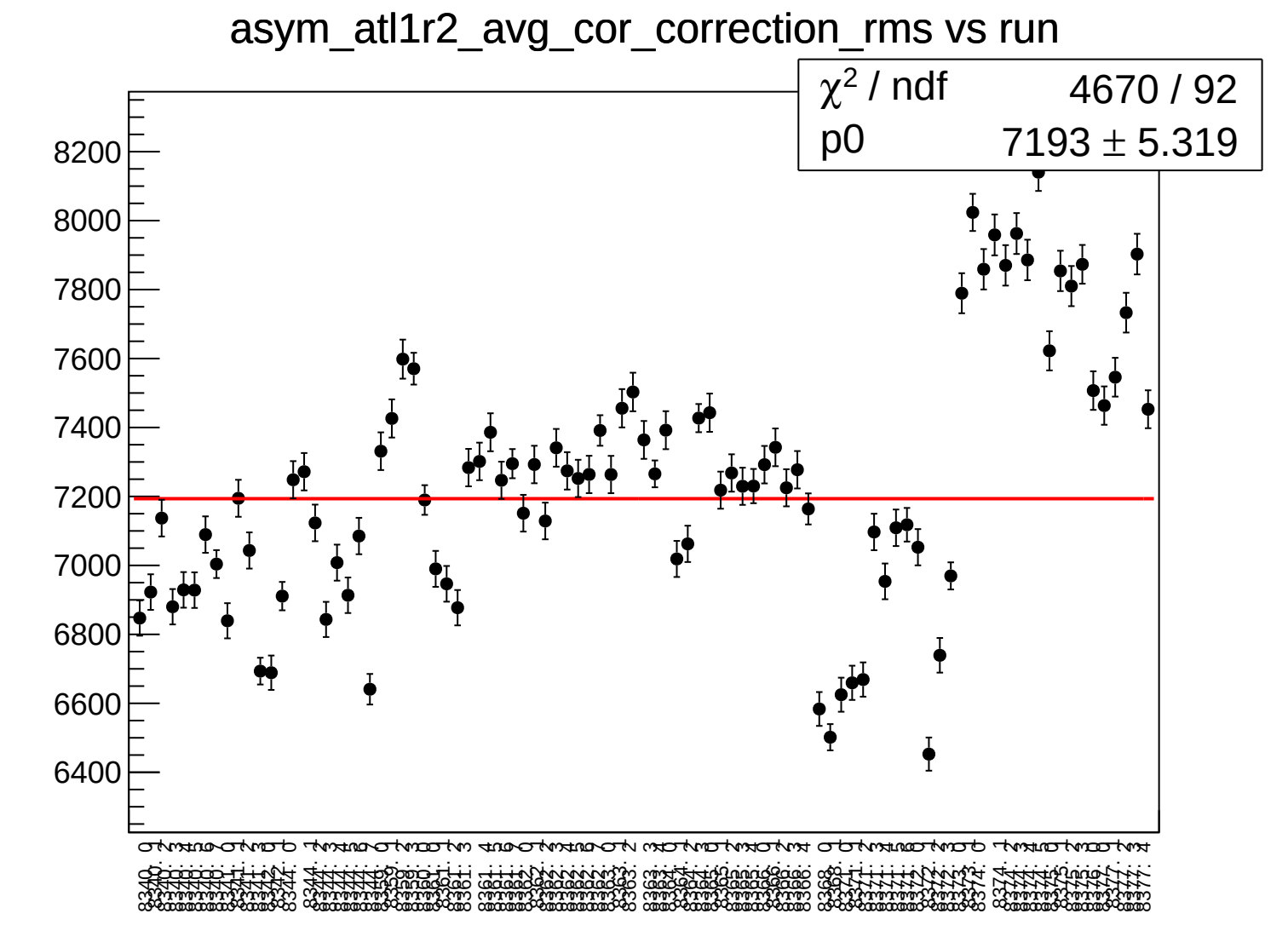

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.47 / 92
p0 678.1 ± 1961
pull
Entries 93
Mean −395.8
Std Dev 0

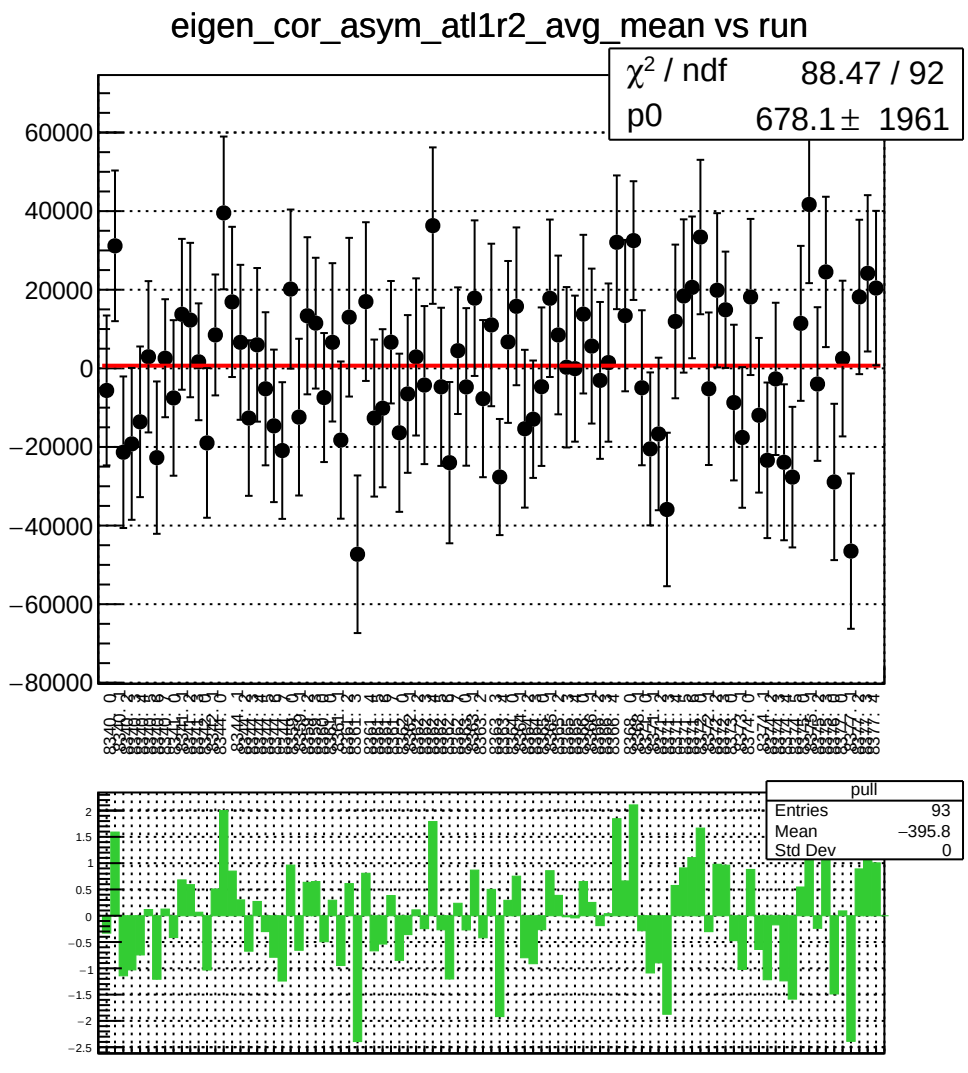

pull1D
Entries 93
Mean −0.00404
Std Dev 0.9753

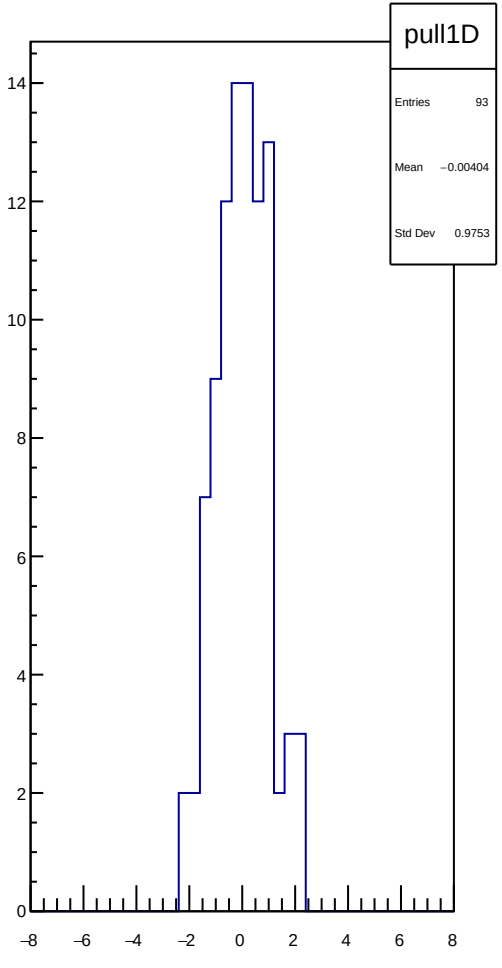

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 727.1 / 92
p0 1877 ± 1.387
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

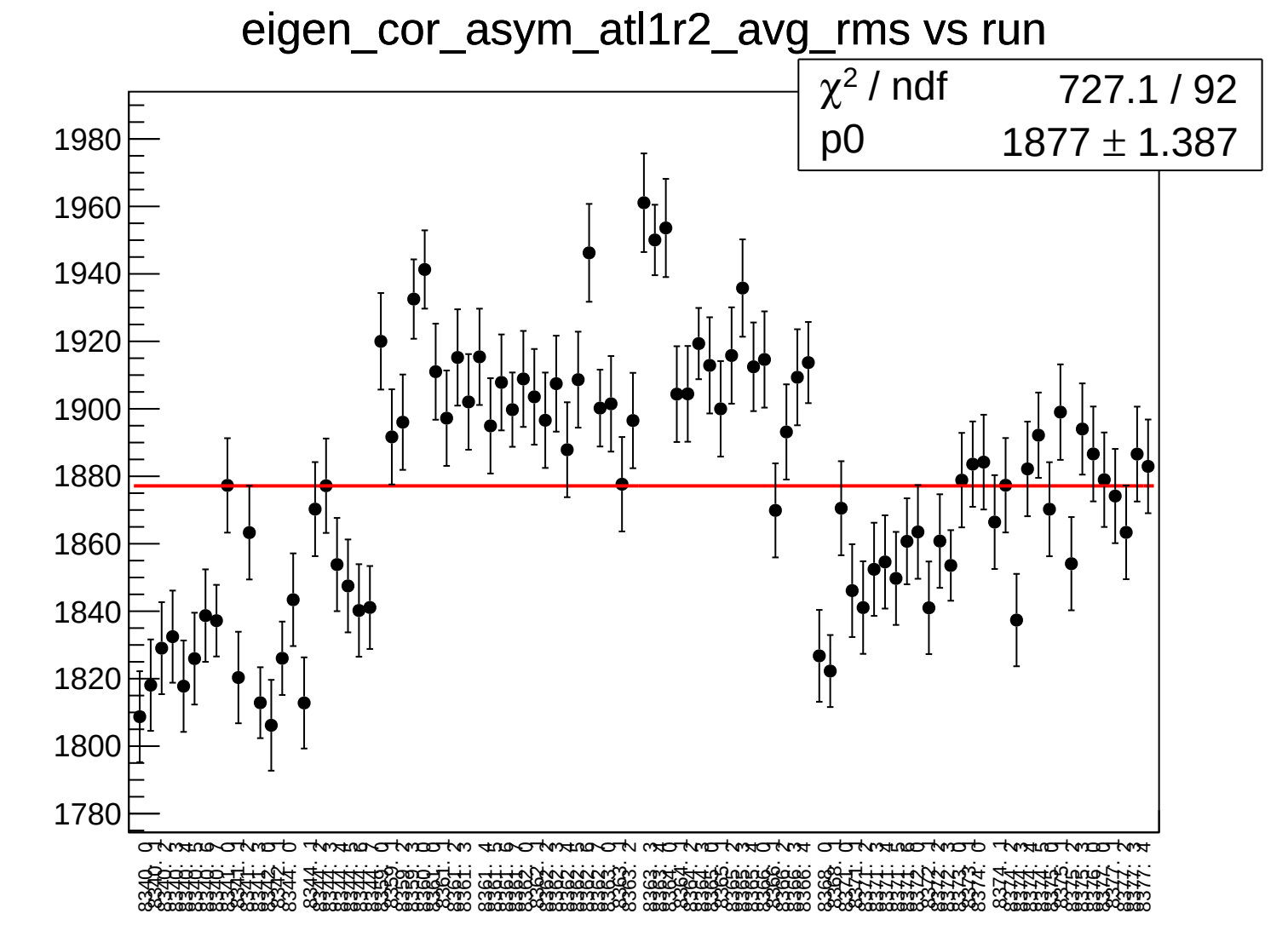

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.5 / 92
p0 −8074 ± 7522
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −329.8
Std Dev 0
3
2
1
0
−1
−2

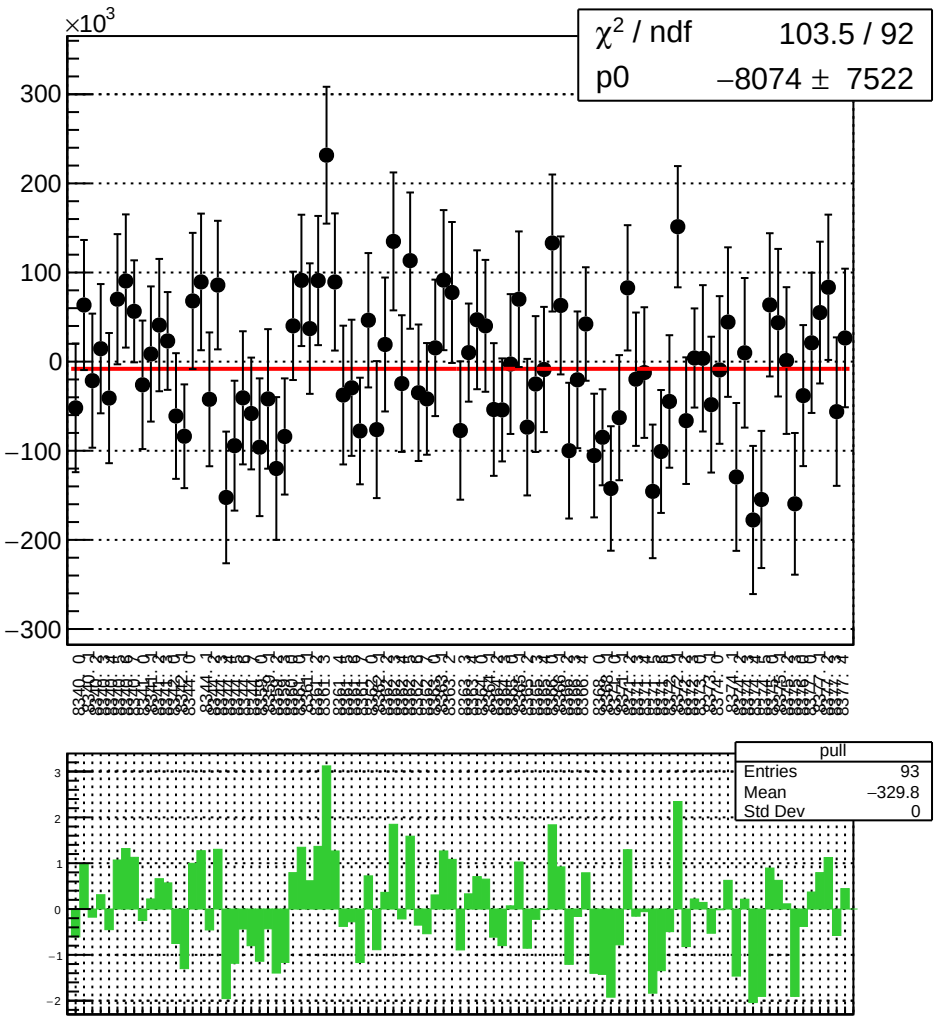

pull1D
Entries 93
Mean 0.01017
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

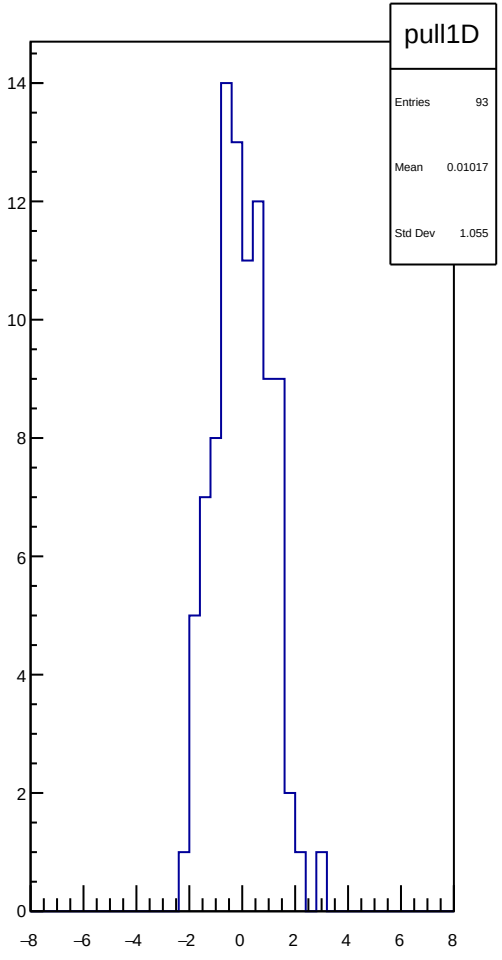

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4670 / 92
p0 7193 ± 5.319
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

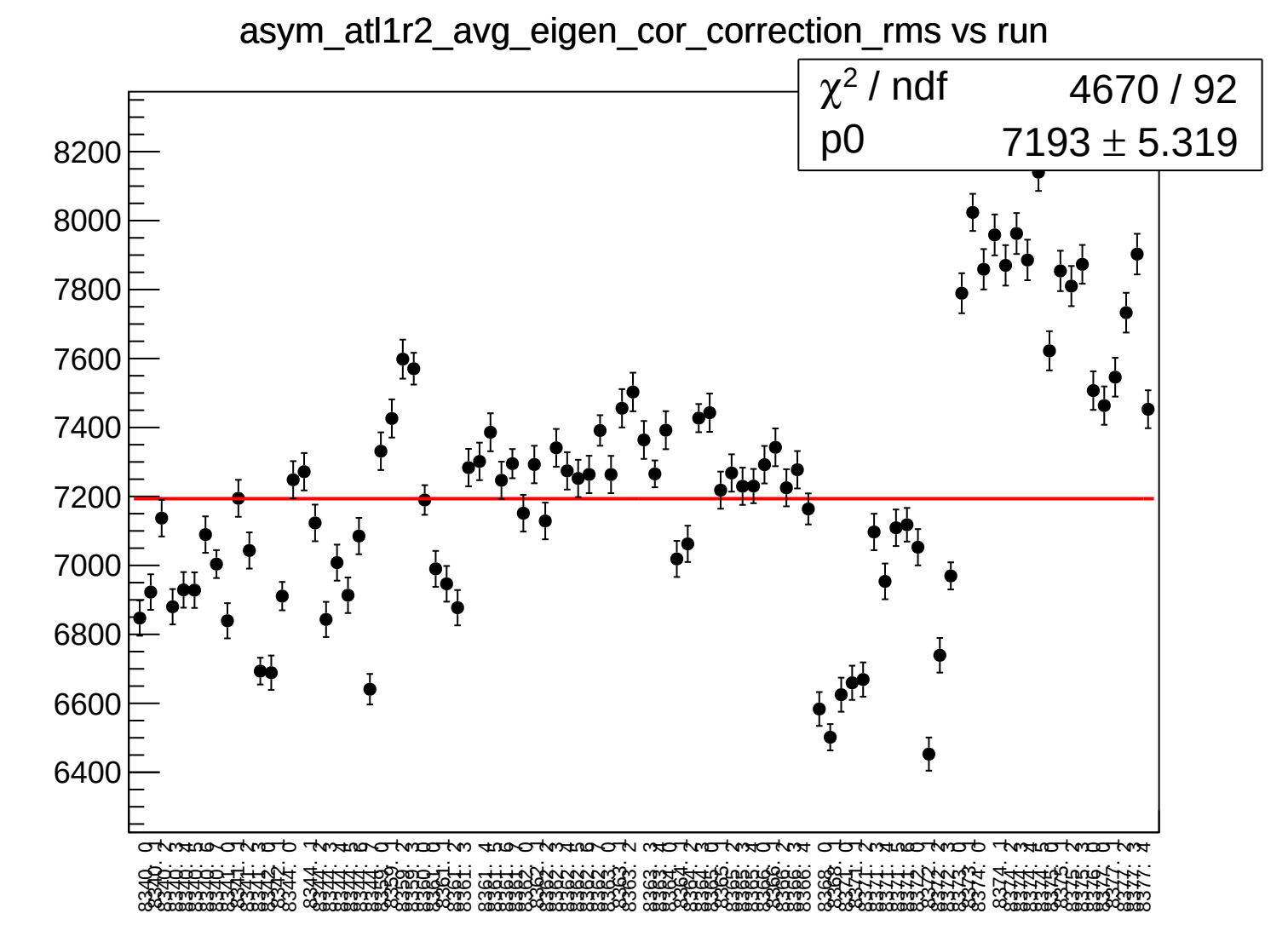

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.47 / 92
p0 678.1 ± 1961
pull
Entries 93
Mean −395.8
Std Dev 0

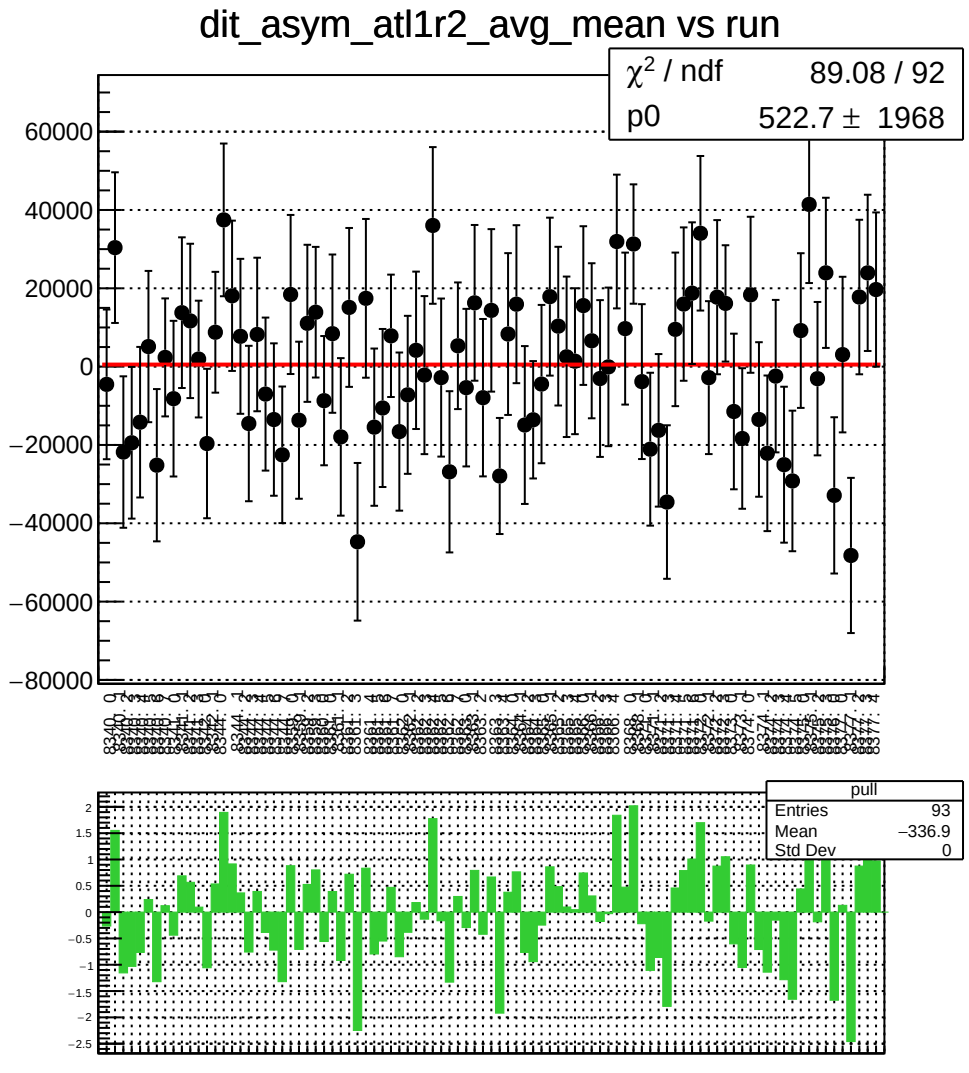

pull1D
Entries 93
Mean −0.00404
Std Dev 0.9753

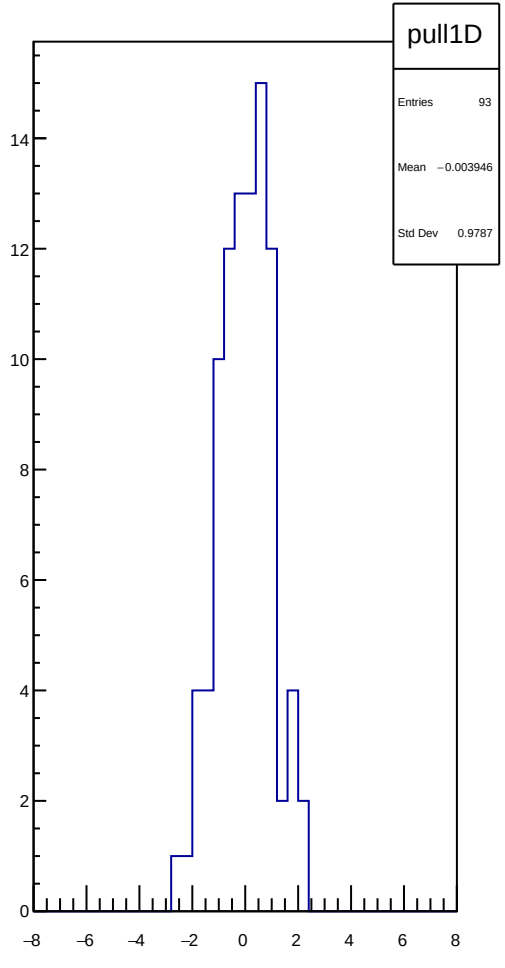

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 727.1 / 92
p0 1877 ± 1.387
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

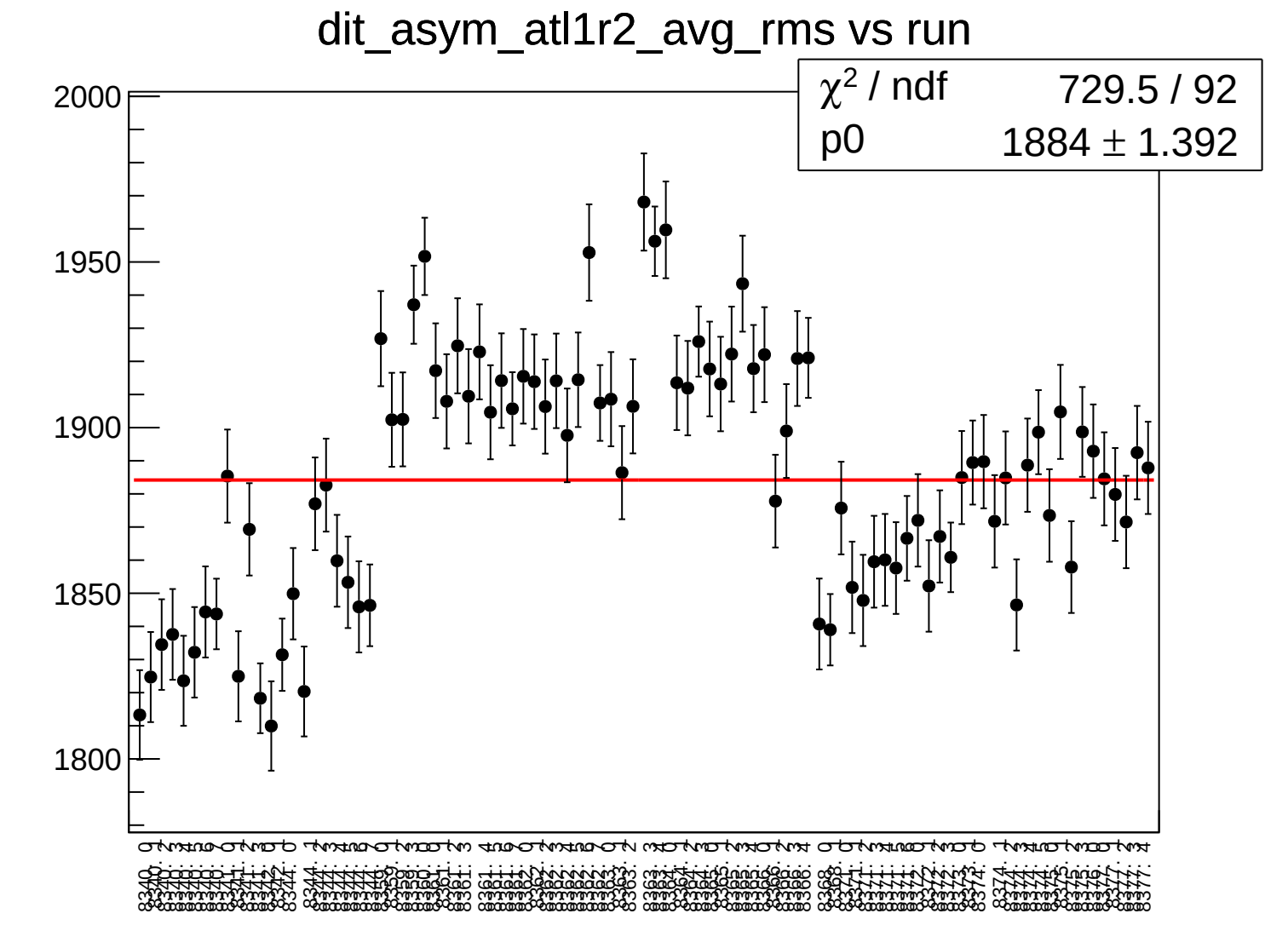

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 103.5 / 92
p0 −8074 ± 7522
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −329.8
Std Dev 0
3
2
1
0
−1
−2

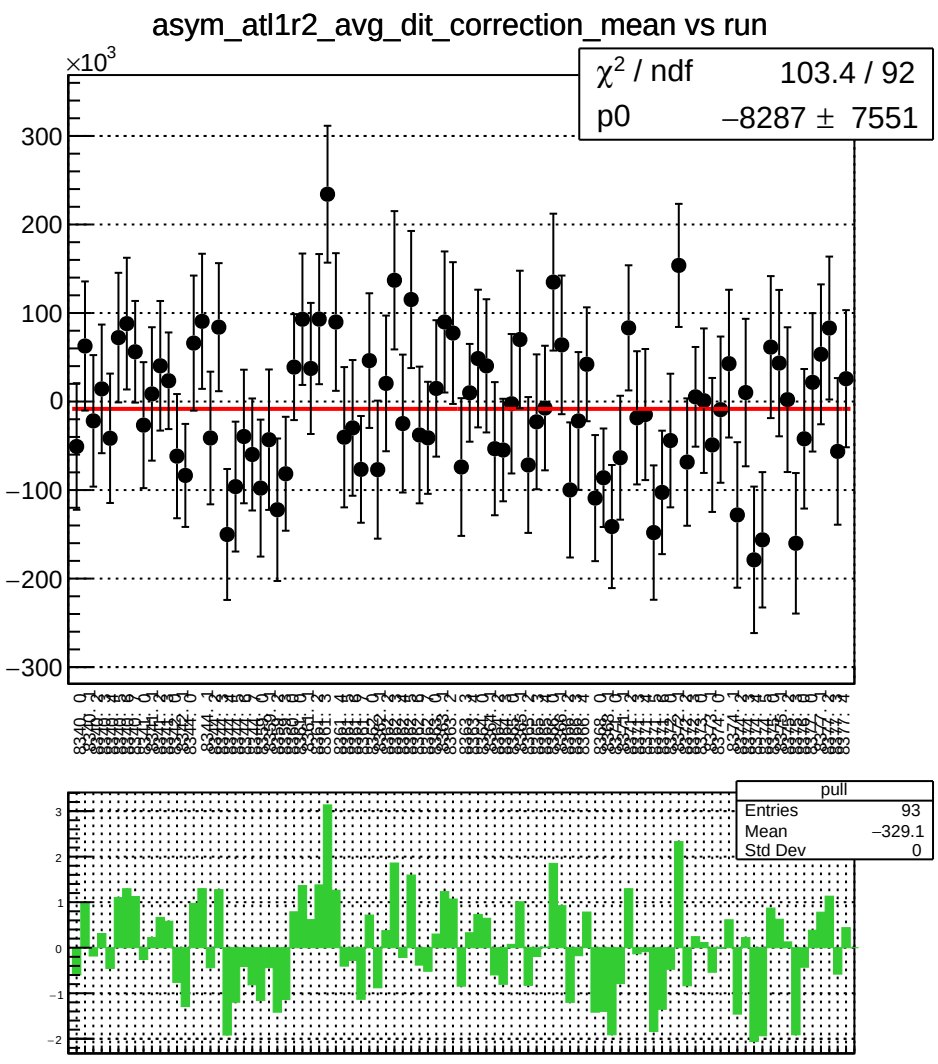

pull1D
Entries 93
Mean 0.01017
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

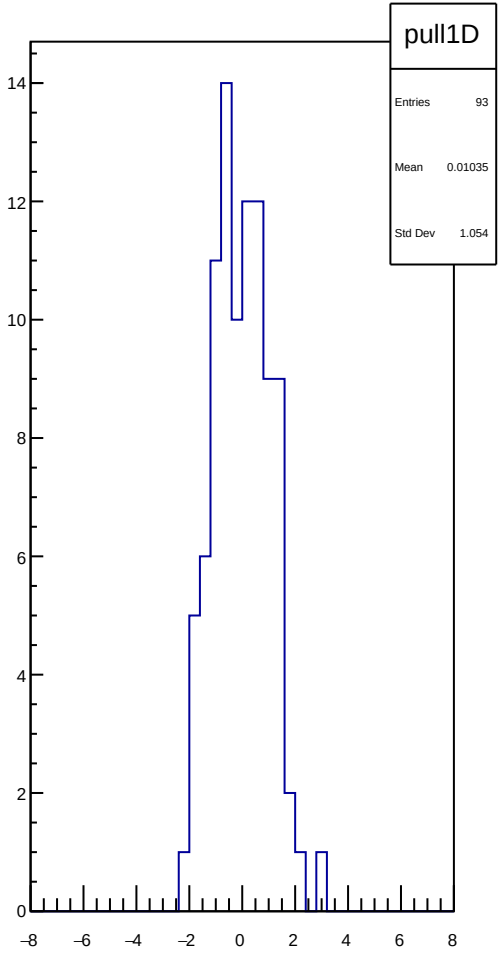

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4670 / 92
p0 7193 ± 5.319
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

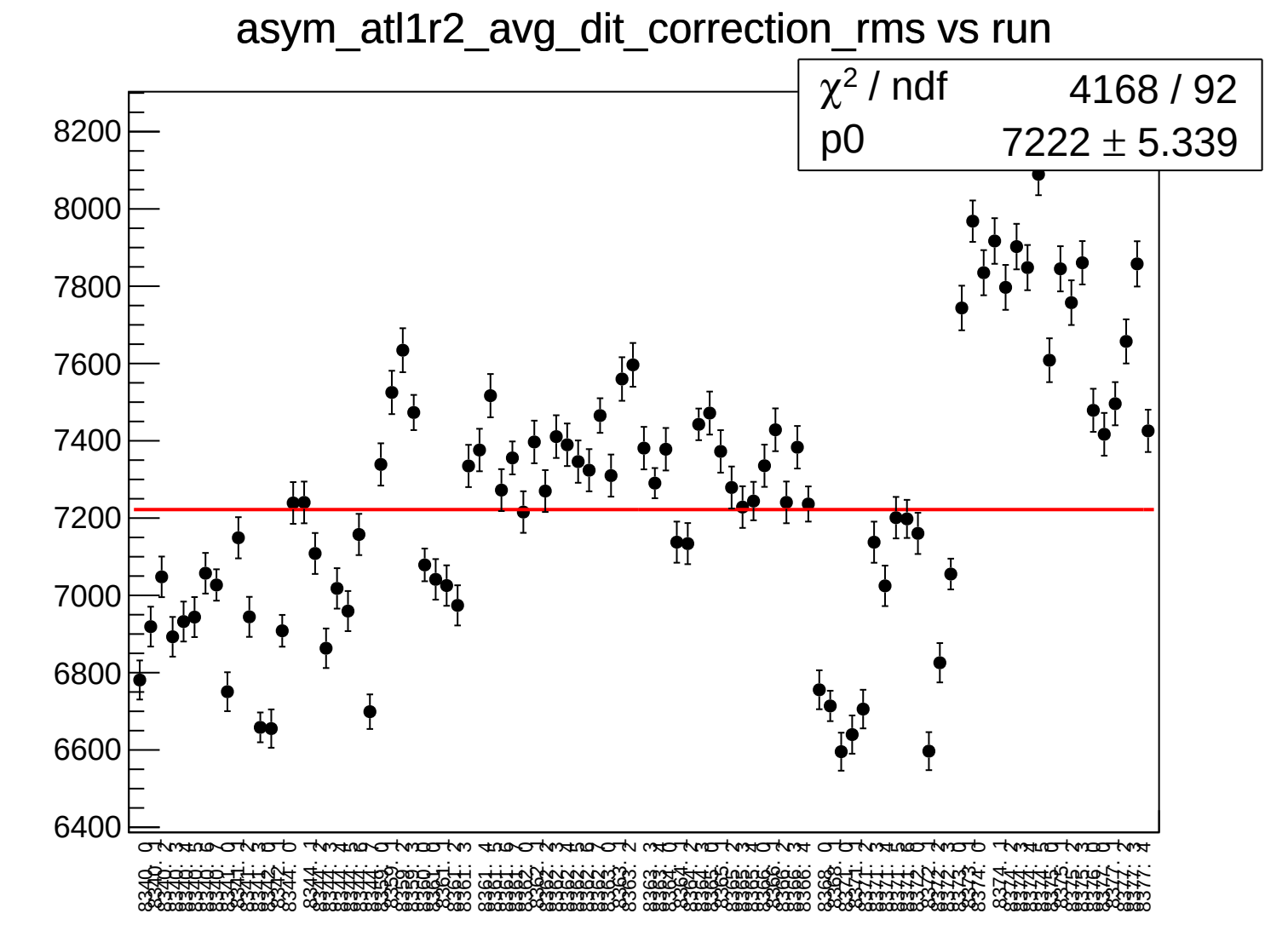

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 89.08 / 92
p0 522.7 ± 1968
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −336.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

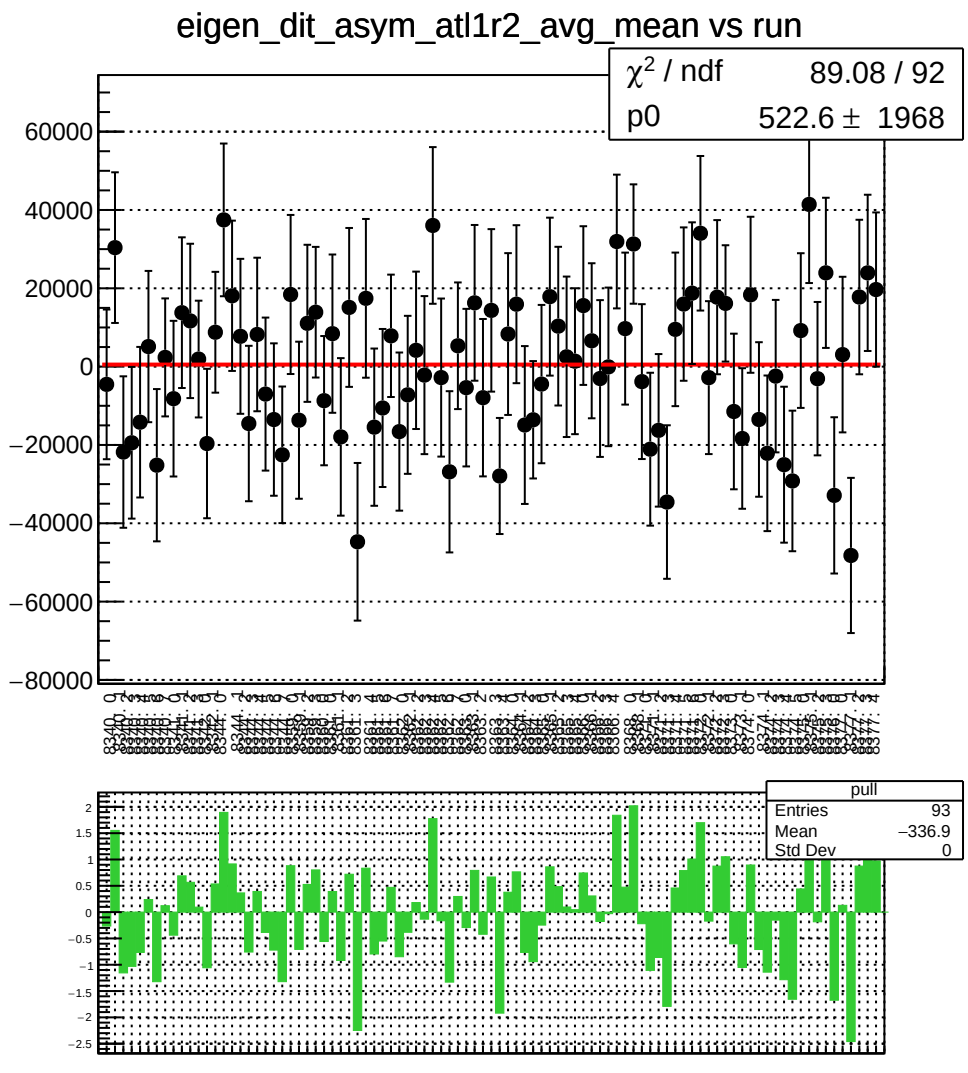

pull1D
Entries 93
Mean −0.003946
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

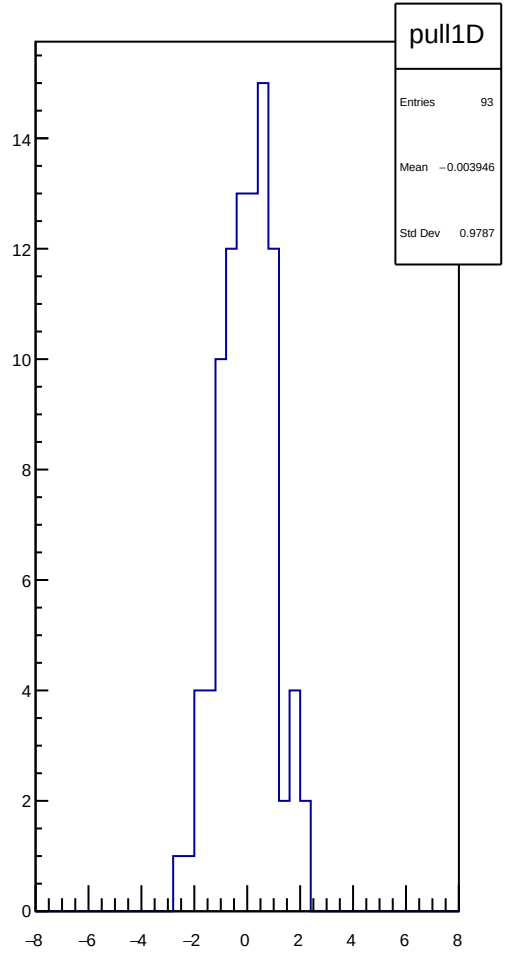

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 729.5 / 92
p0 1884 ± 1.392
2000
1950
1900
1850
1800

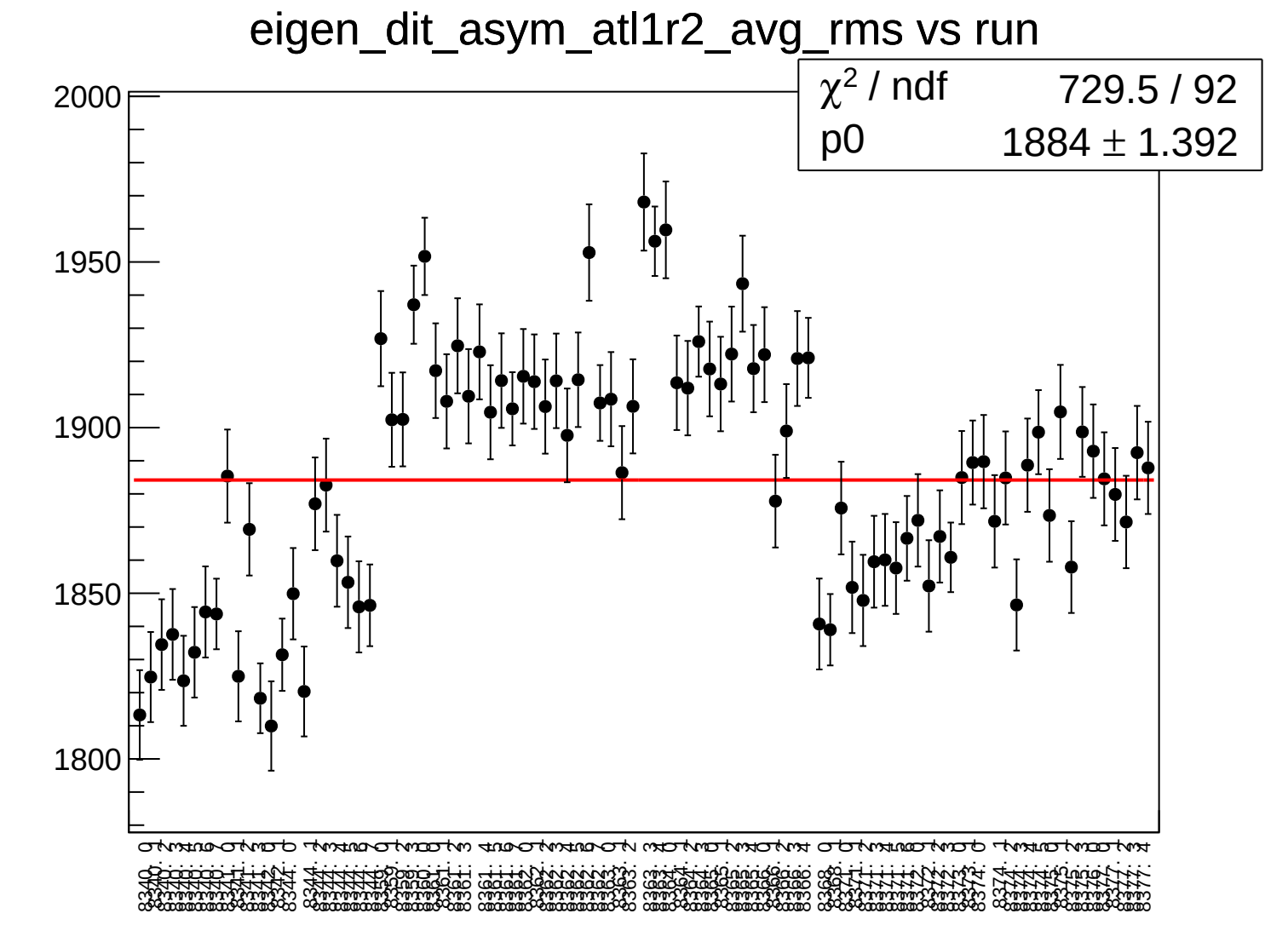

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.4 / 92
p0 −8287 ± 7551
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −329.1
Std Dev 0
3
2
1
0
−1
−2

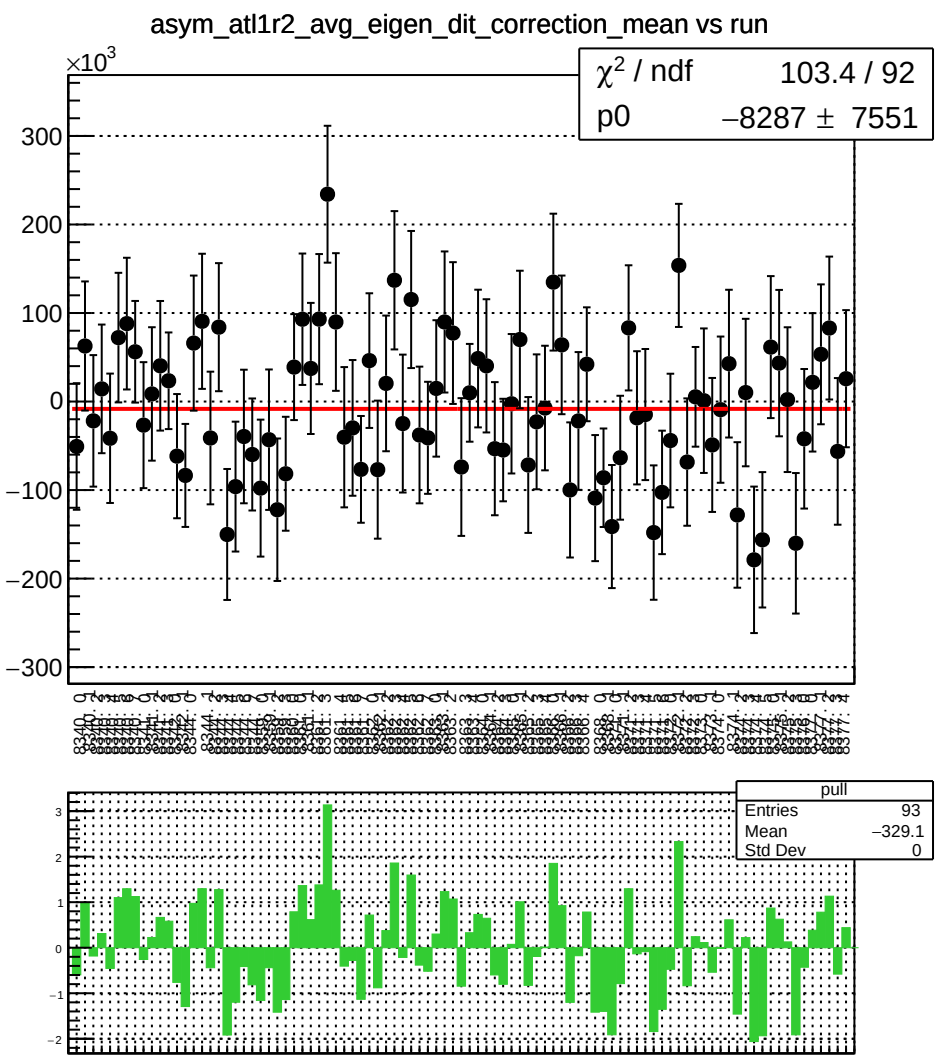

pull1D
Entries 93
Mean 0.01035
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

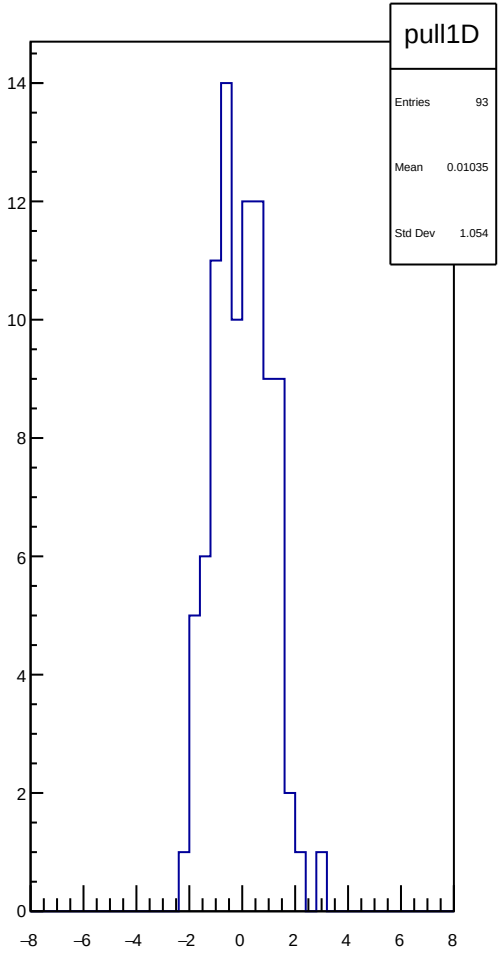

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4168 / 92
p0 7222 ± 5.339
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

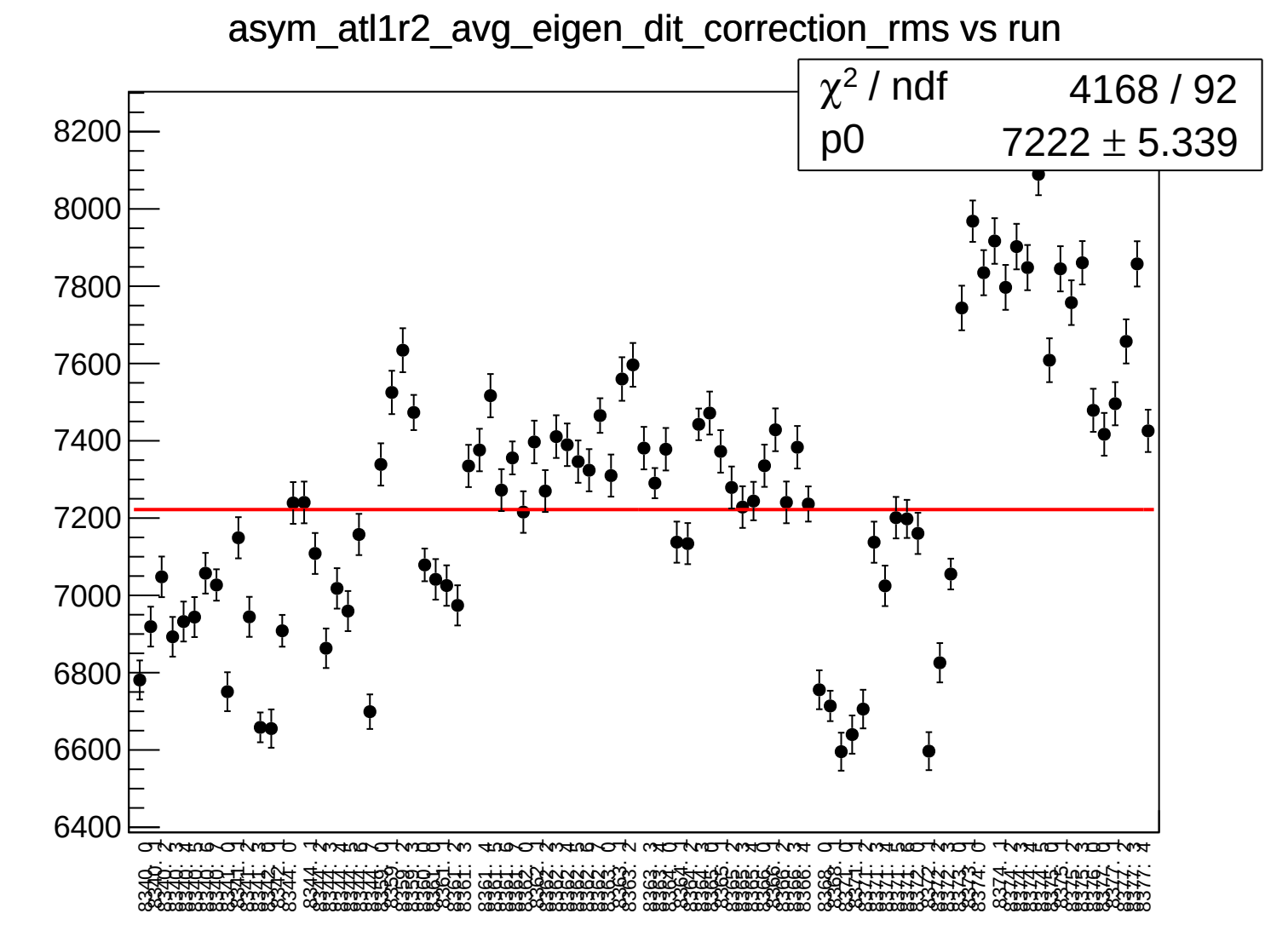

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 89.08 / 92
p0 522.6 ± 1968
pull
Entries 93
Mean −336.9
Std Dev 0

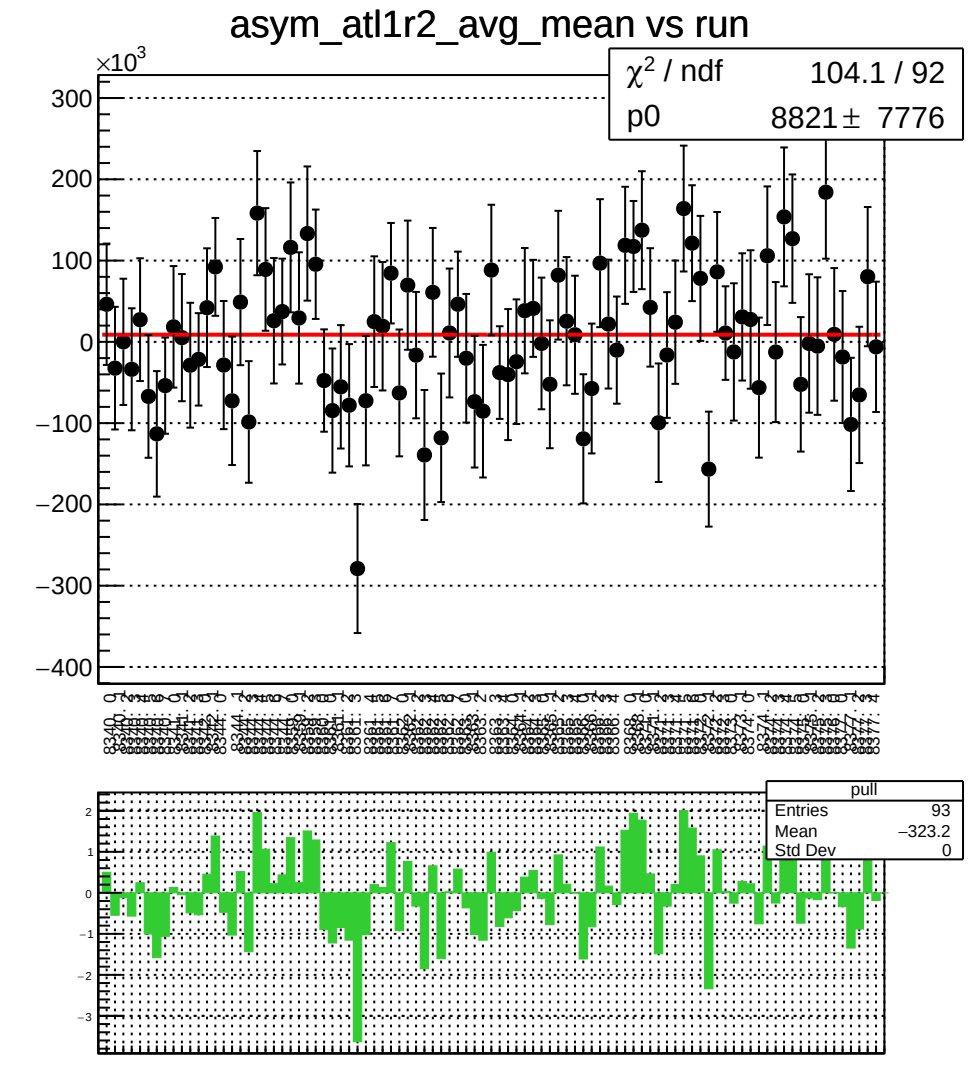

pull1D
Entries 93
Mean −0.003946
Std Dev 0.9787

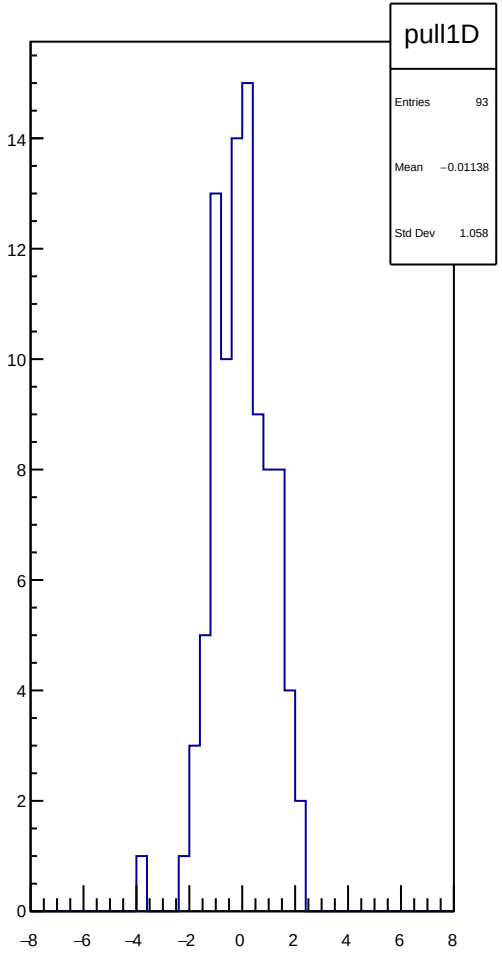

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 729.5 / 92
p0 1884 ± 1.392
2000
1950
1900
1850
1800

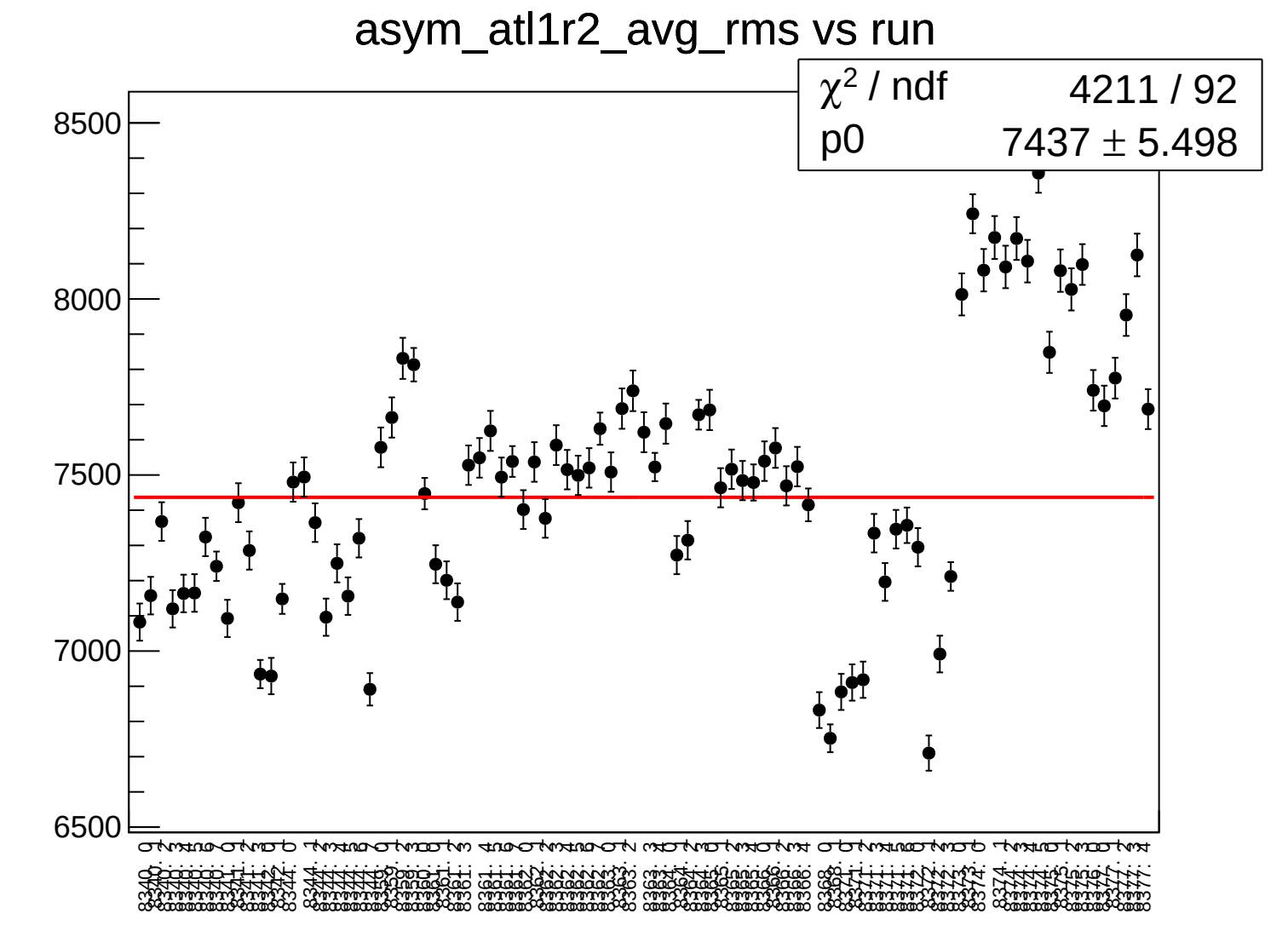

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.4 / 92
p0 −8287 ± 7551
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −329.1
Std Dev 0
3
2
1
0
−1
−2

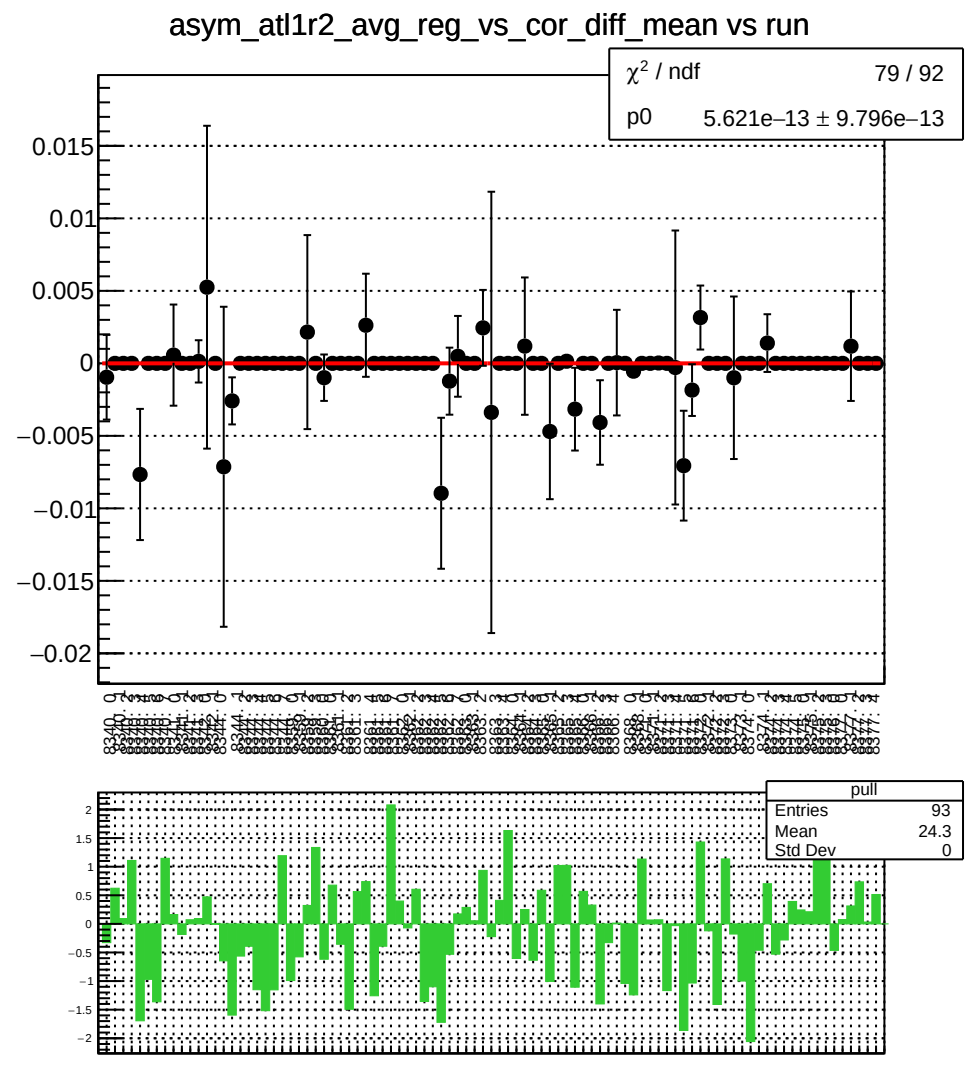

pull1D
Entries 93
Mean 0.01035
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

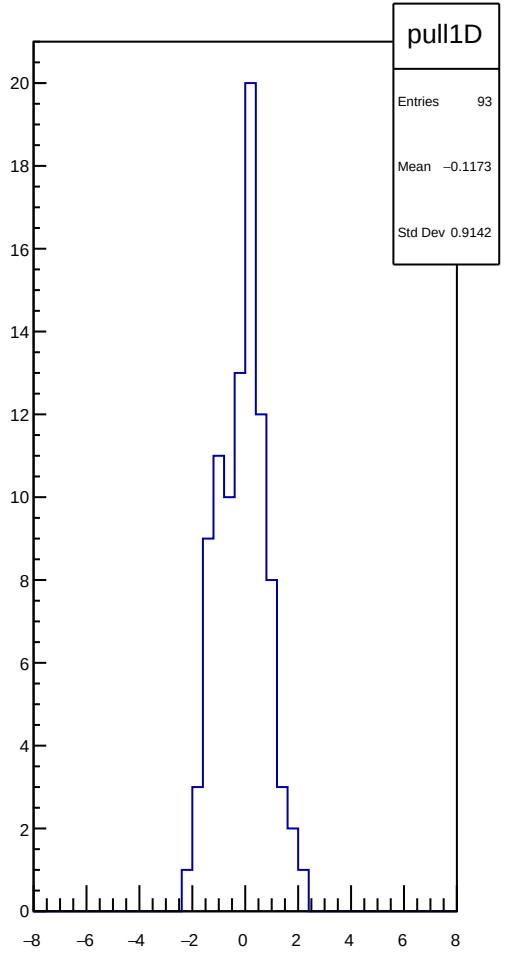

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4168 / 92
p0 7222 ± 5.339
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

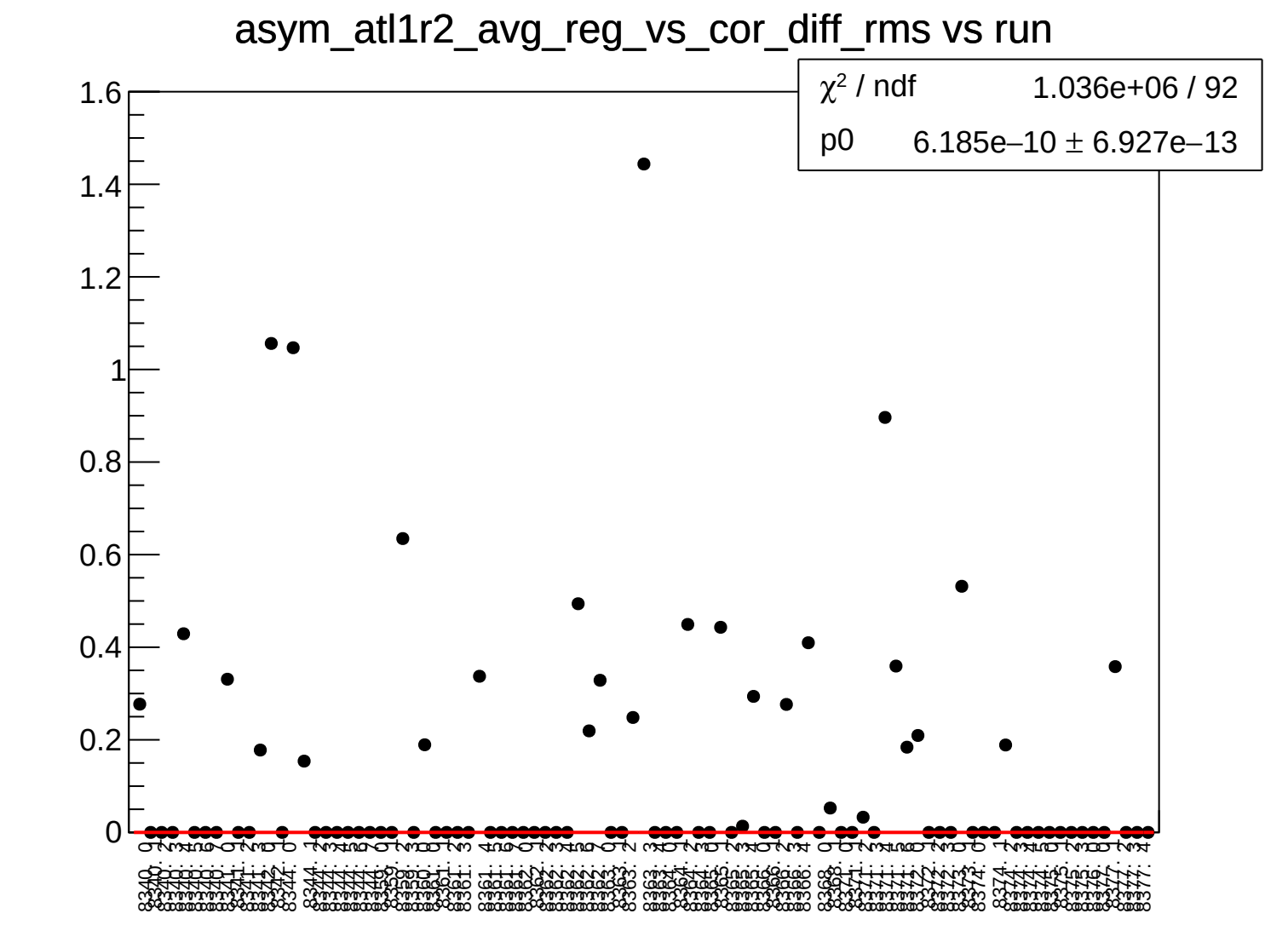

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 104.1 / 92
p0 8821 ± 7776
pull
Entries 93
Mean −323.2
Std Dev 0

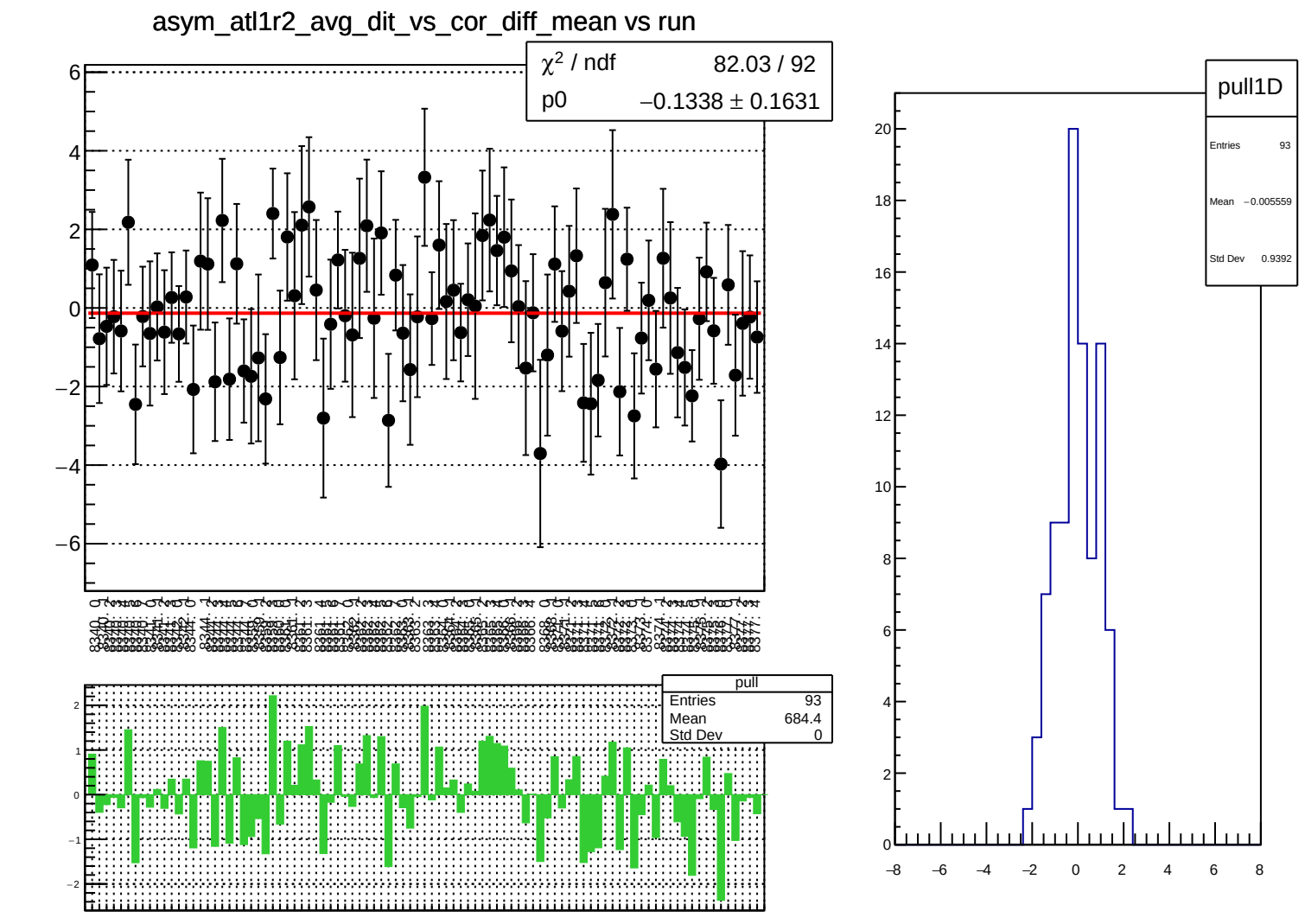

pull1D
Entries 93
Mean −0.01138
Std Dev 1.058

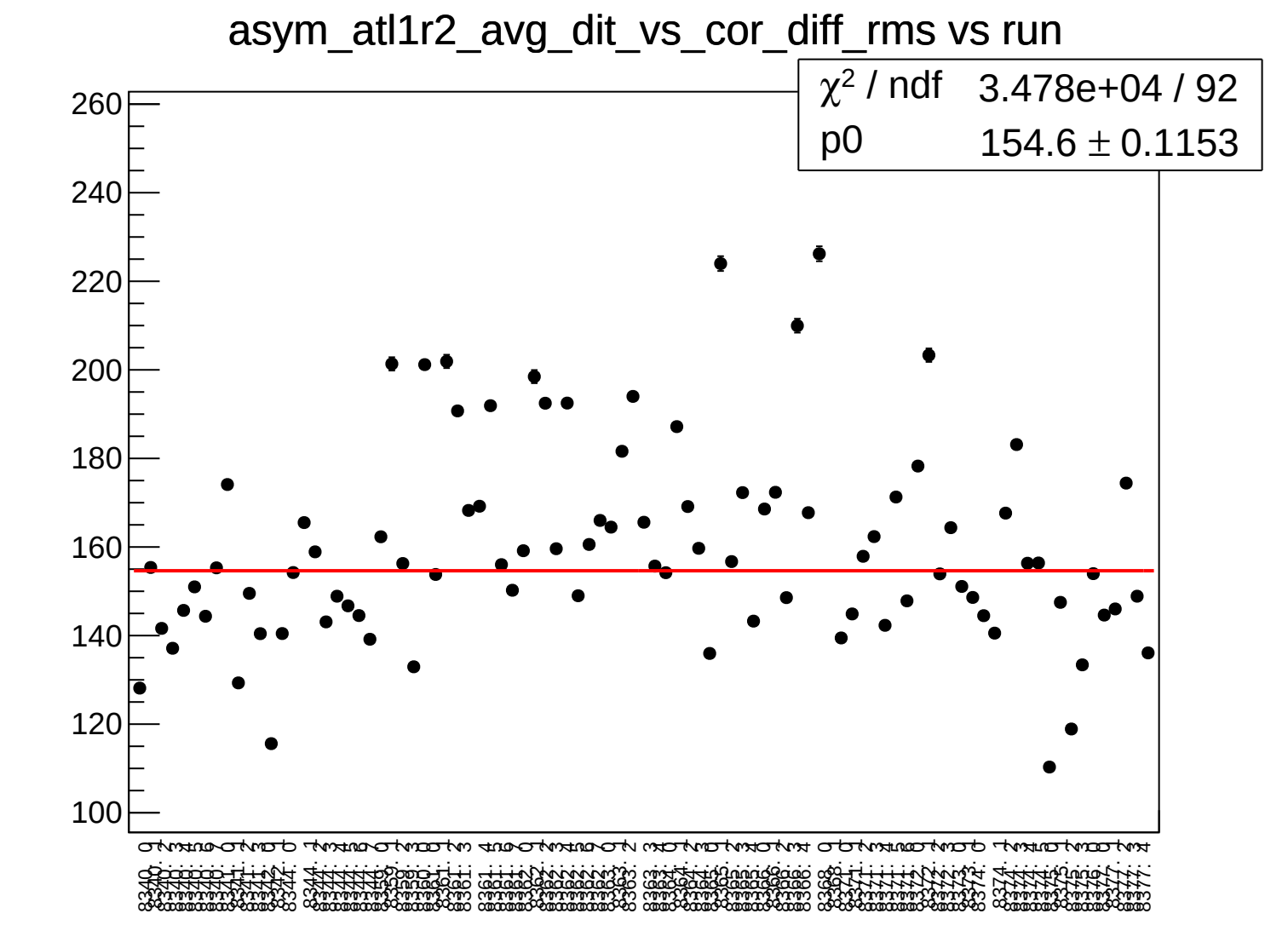

asym_atl1r2_avg_rms vs run
χ² / ndf 4211 / 92
p0 7437 ± 5.498
8500
8000
7500
7000
6500

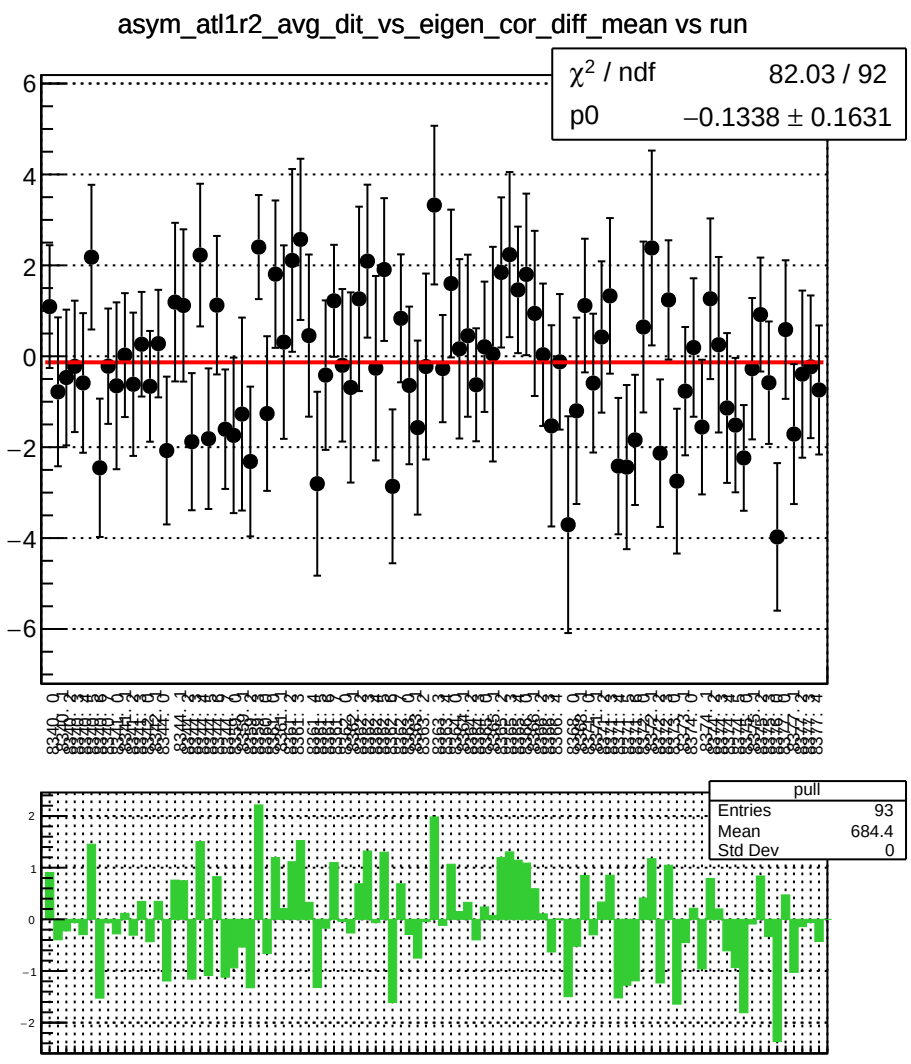

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79 / 92
p0 5.621e−13 ± 9.796e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 24.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

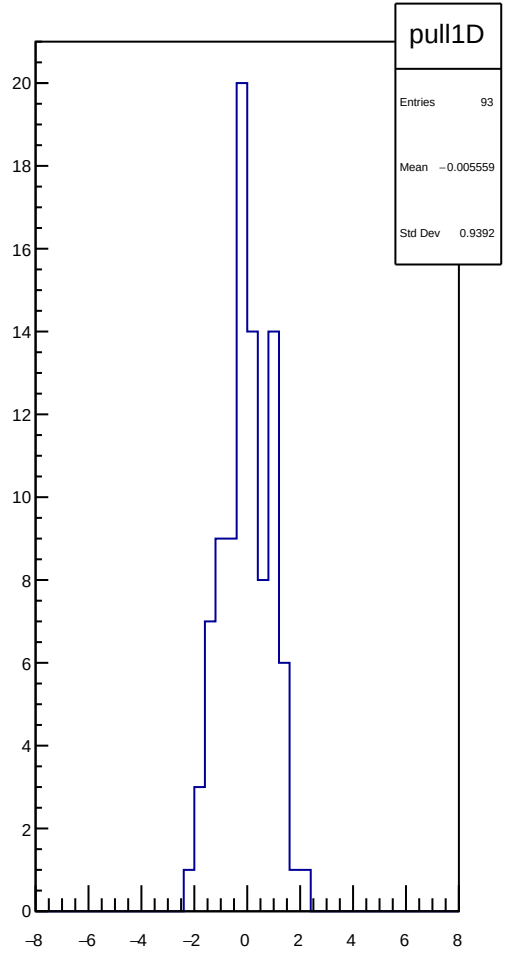

pull1D
Entries 93
Mean −0.1173
Std Dev 0.9142
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

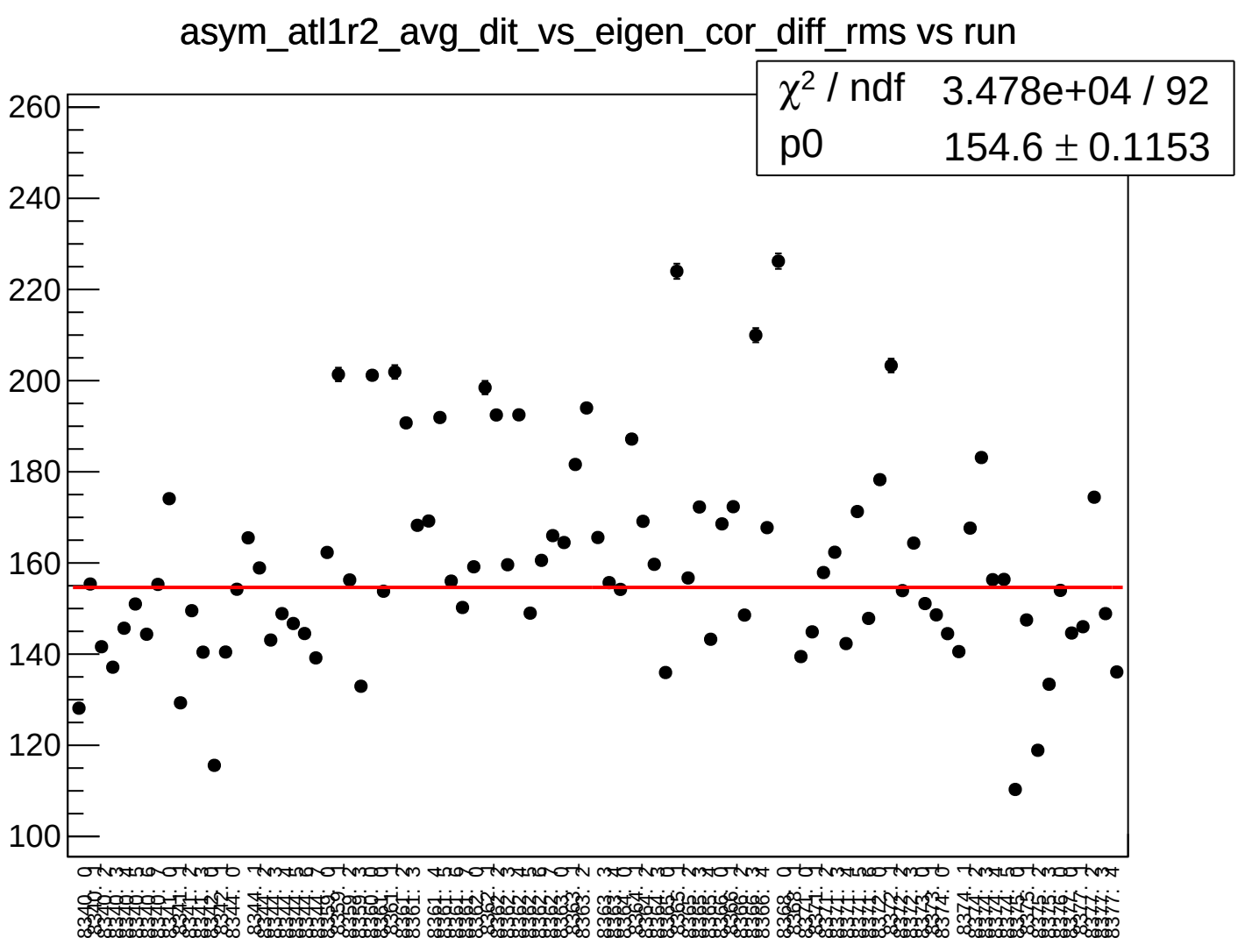

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 92
p0 6.185e−10 ± 6.927e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

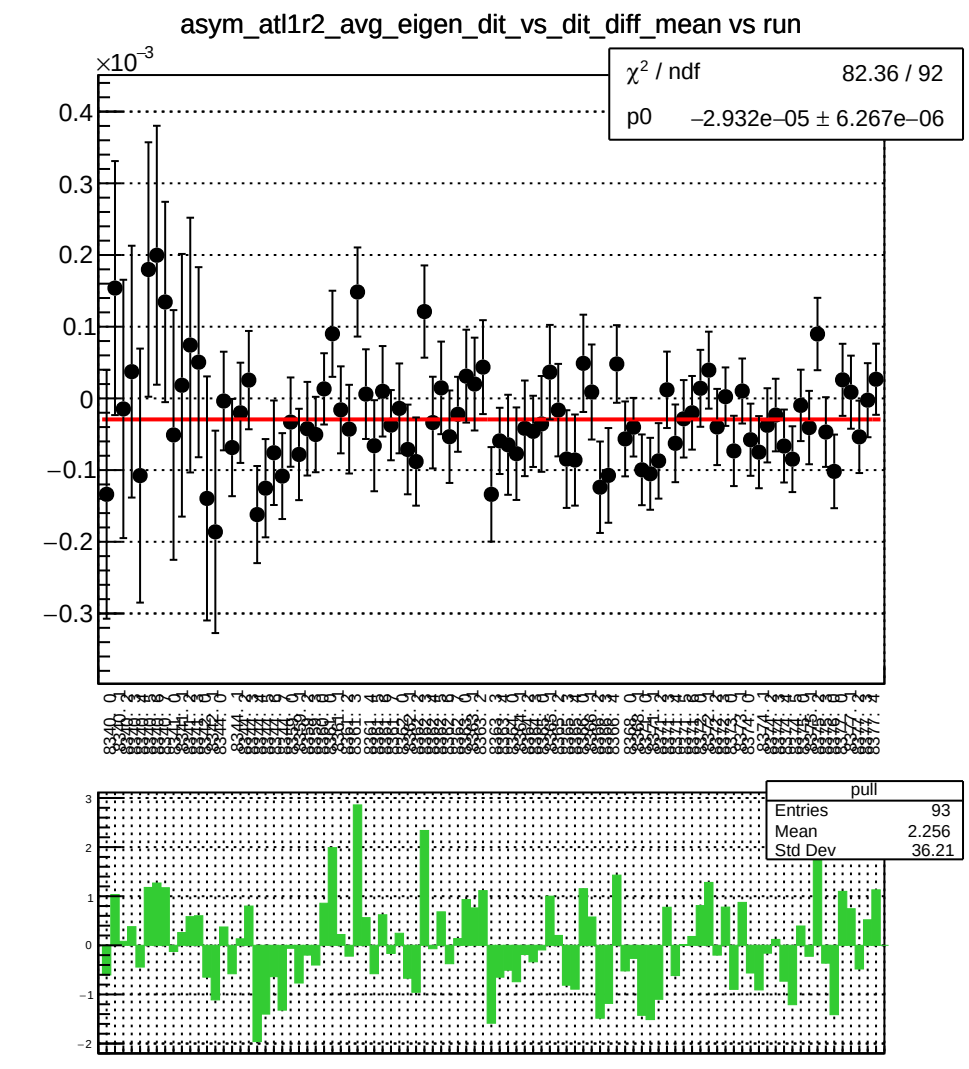

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 92
p0 −0.1338 ± 0.1631
pull
Entries 93
Mean 684.4
Std Dev 0
pull1D
Entries 93
Mean −0.005559
Std Dev 0.9392

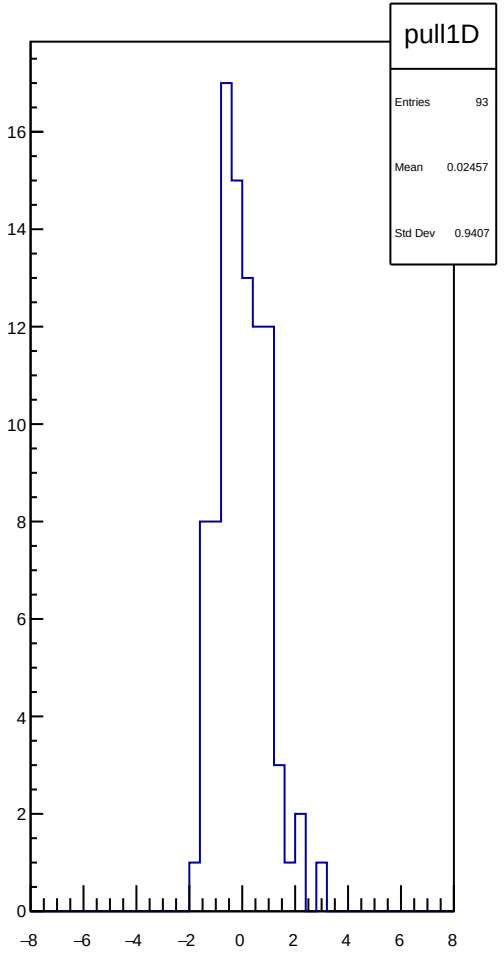

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 92
p0 154.6 ± 0.1153
260
240
220
200
180
160
140
120
100

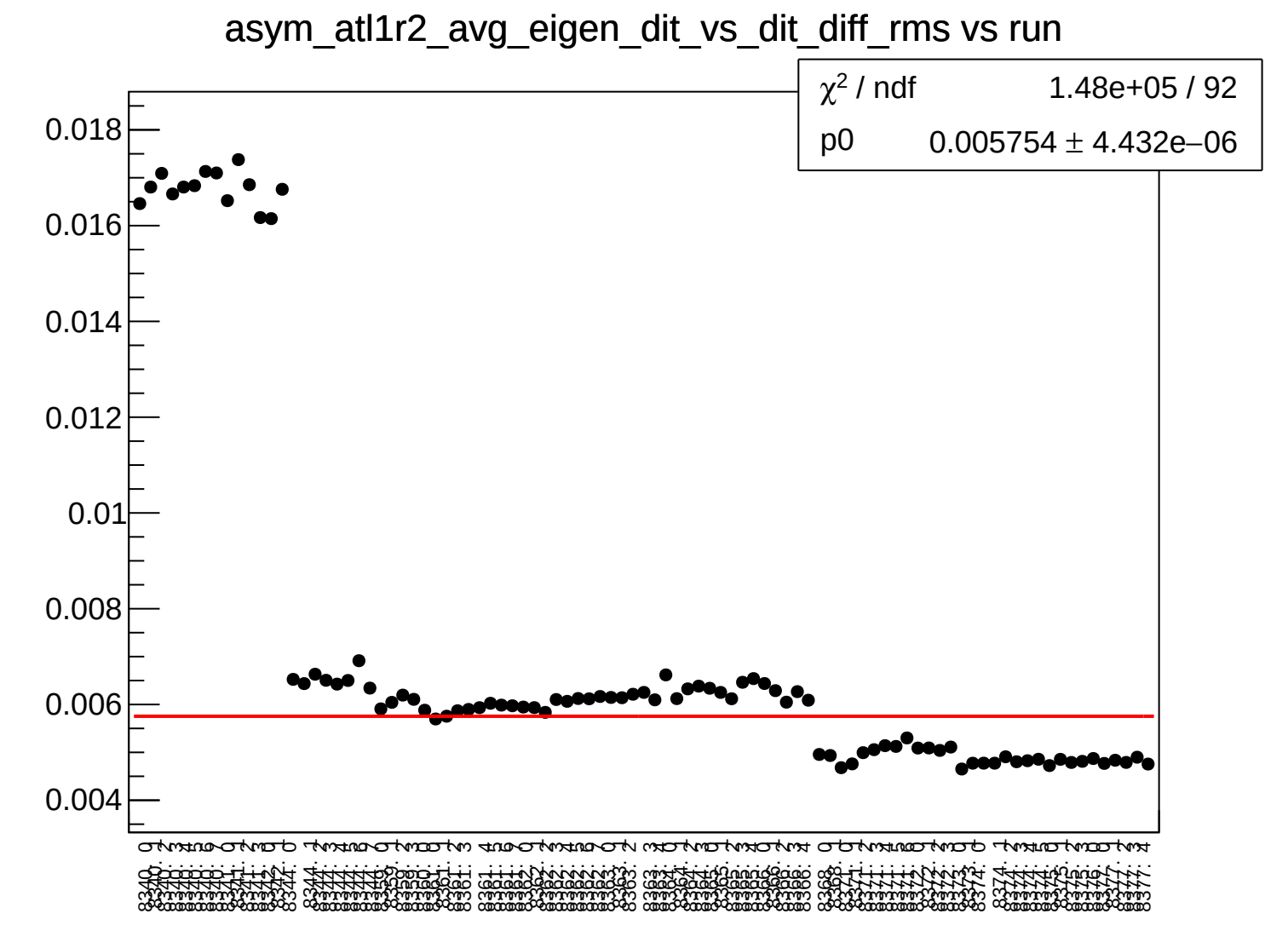

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 92
p0 −0.1338 ± 0.1631
pull
Entries 93
Mean 684.4
Std Dev 0

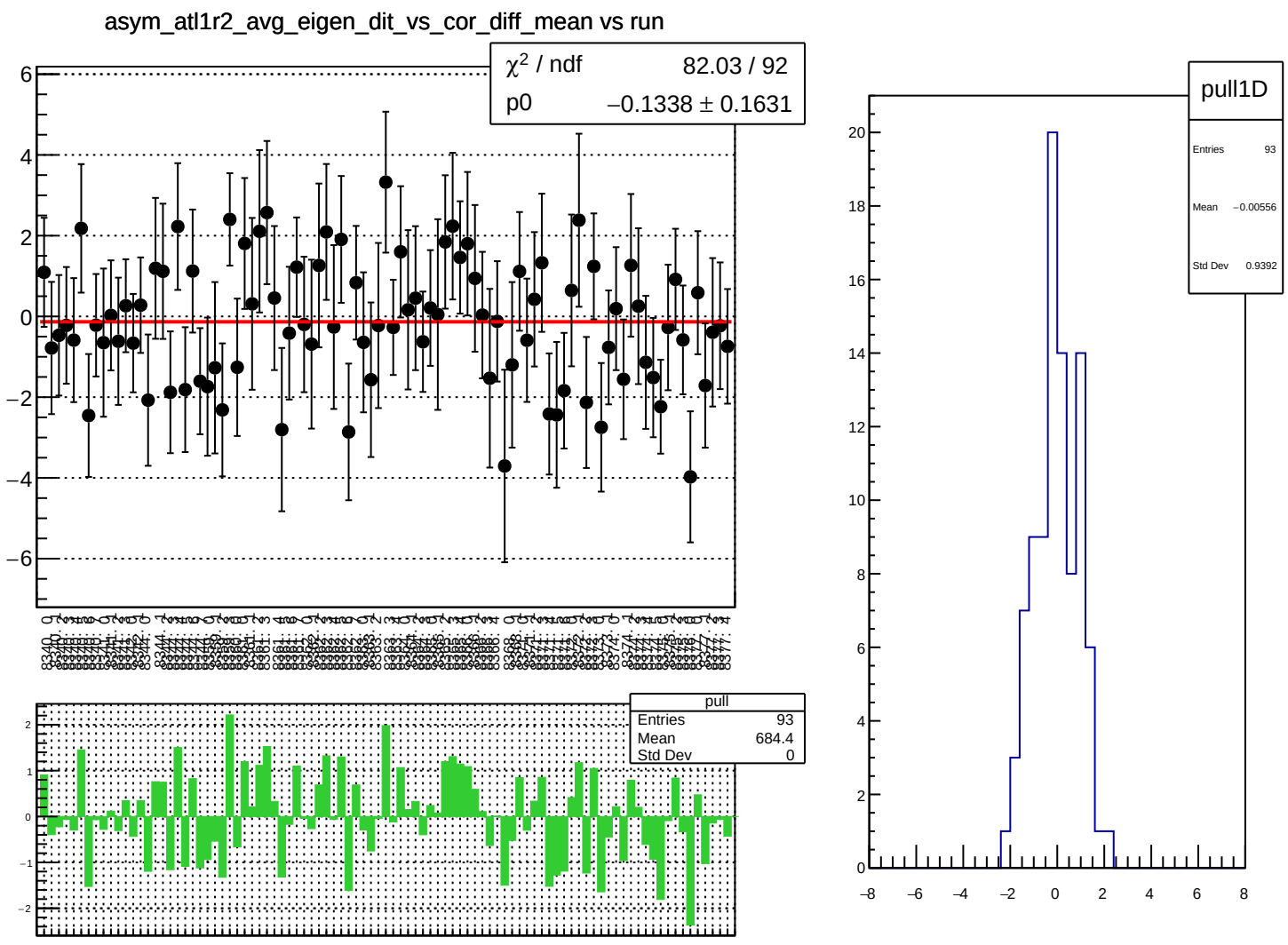

pull1D
Entries 93
Mean −0.005559
Std Dev 0.9392

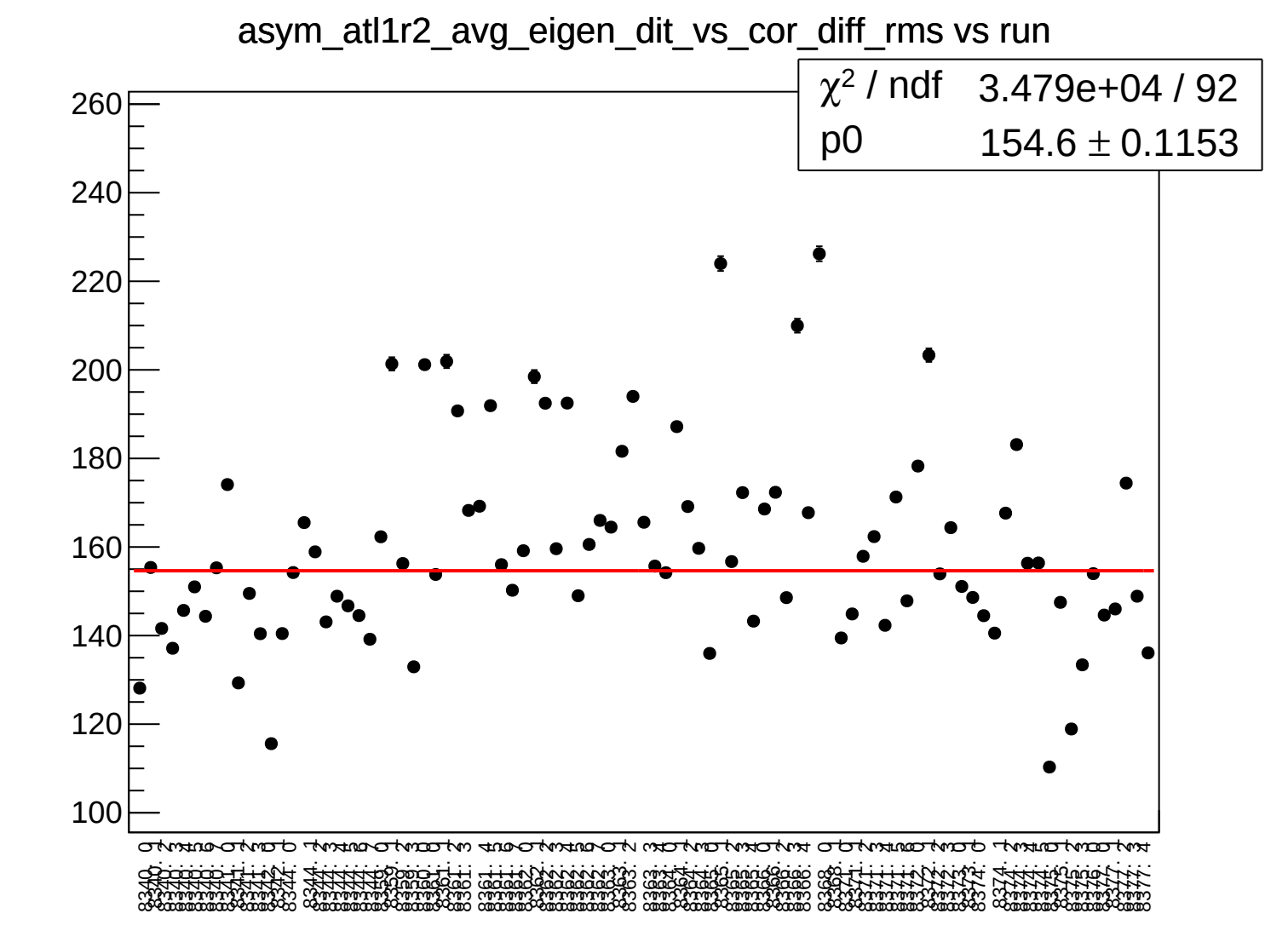

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.478e+04 / 92
p0 154.6 ± 0.1153
260
240
220
200
180
160
140
120
100

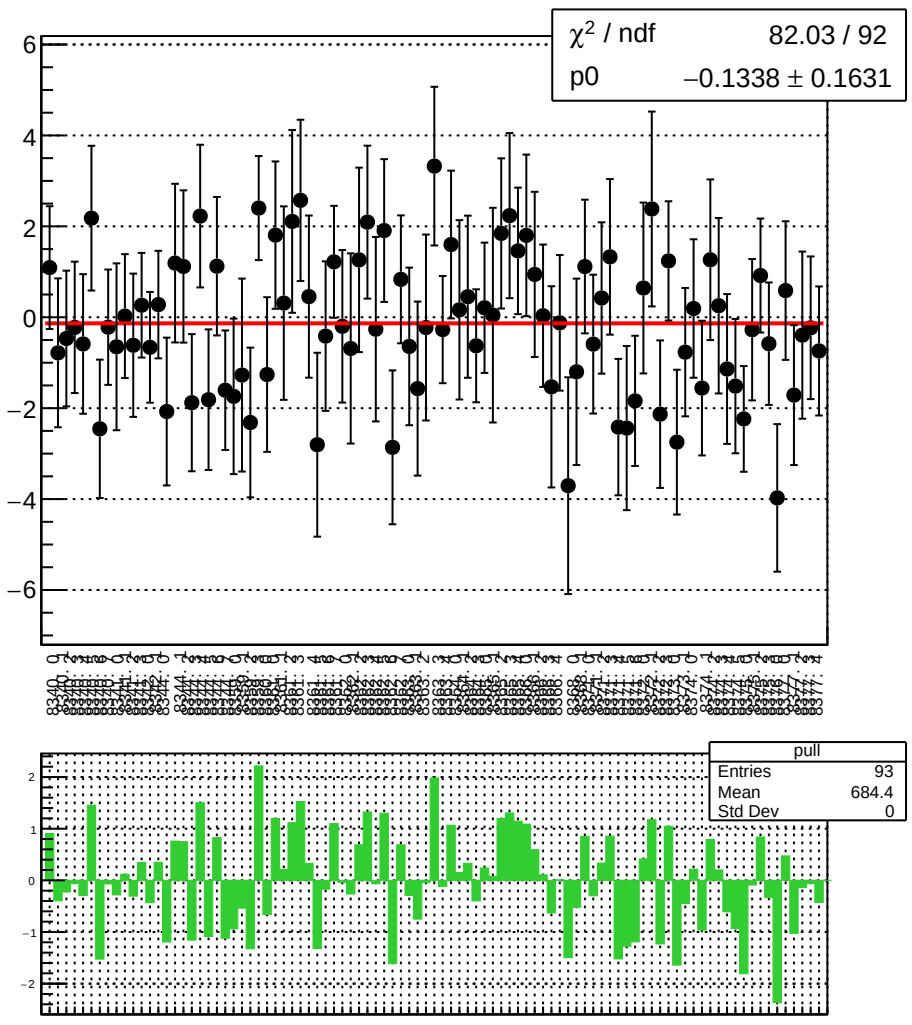

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.36 / 92
p0 −2.932e−05 ± 6.267e−06
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 2.256
Std Dev 36.21
3
2
1
0
−1
−2

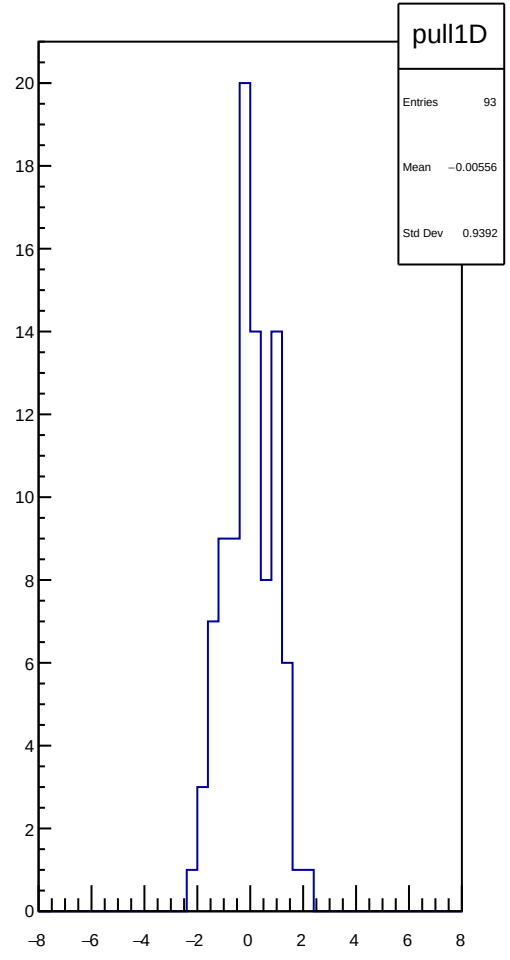

pull1D
Entries 93
Mean 0.02457
Std Dev 0.9407
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

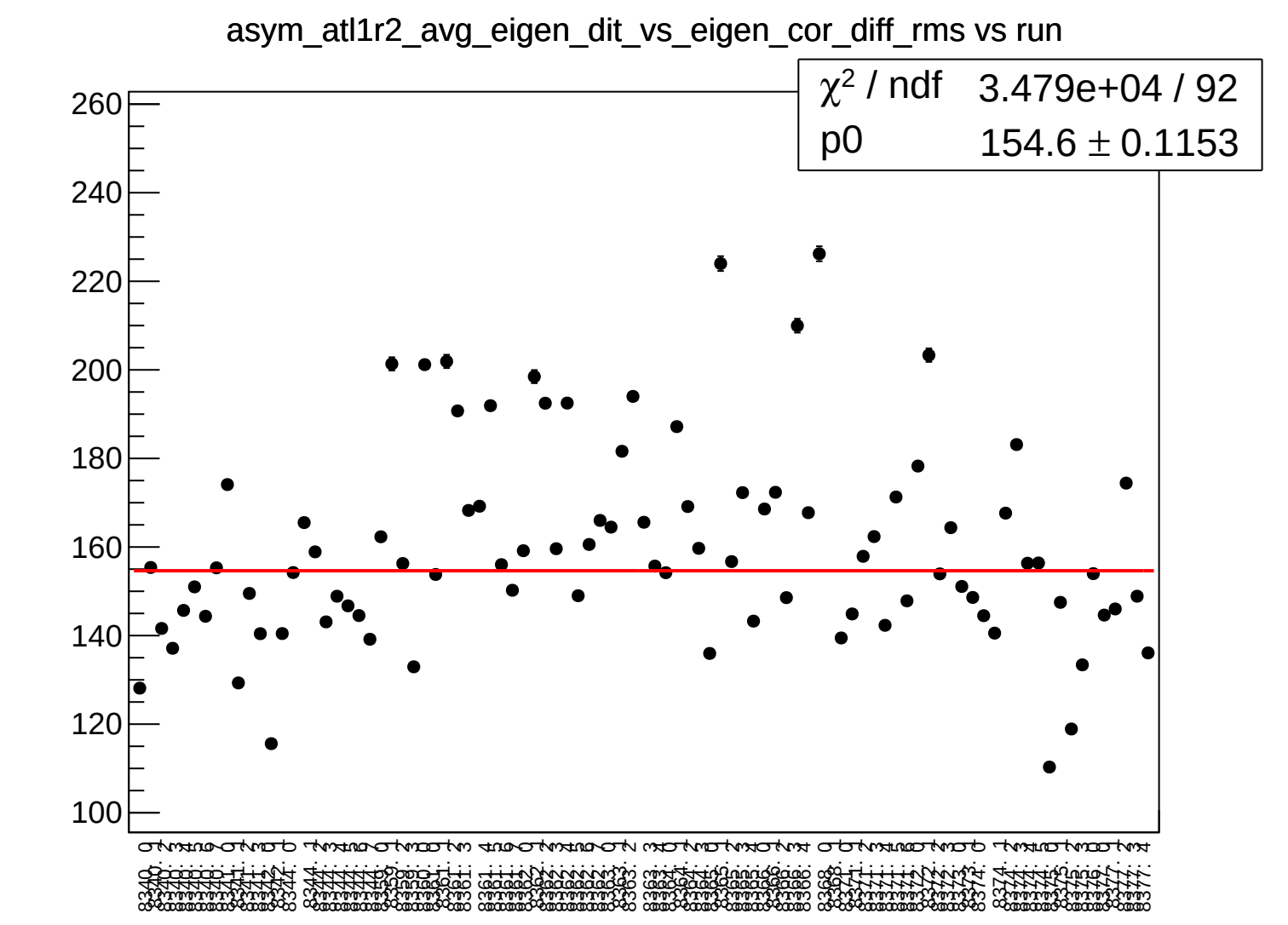

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.48e+05 / 92
p0 0.005754 ± 4.432e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

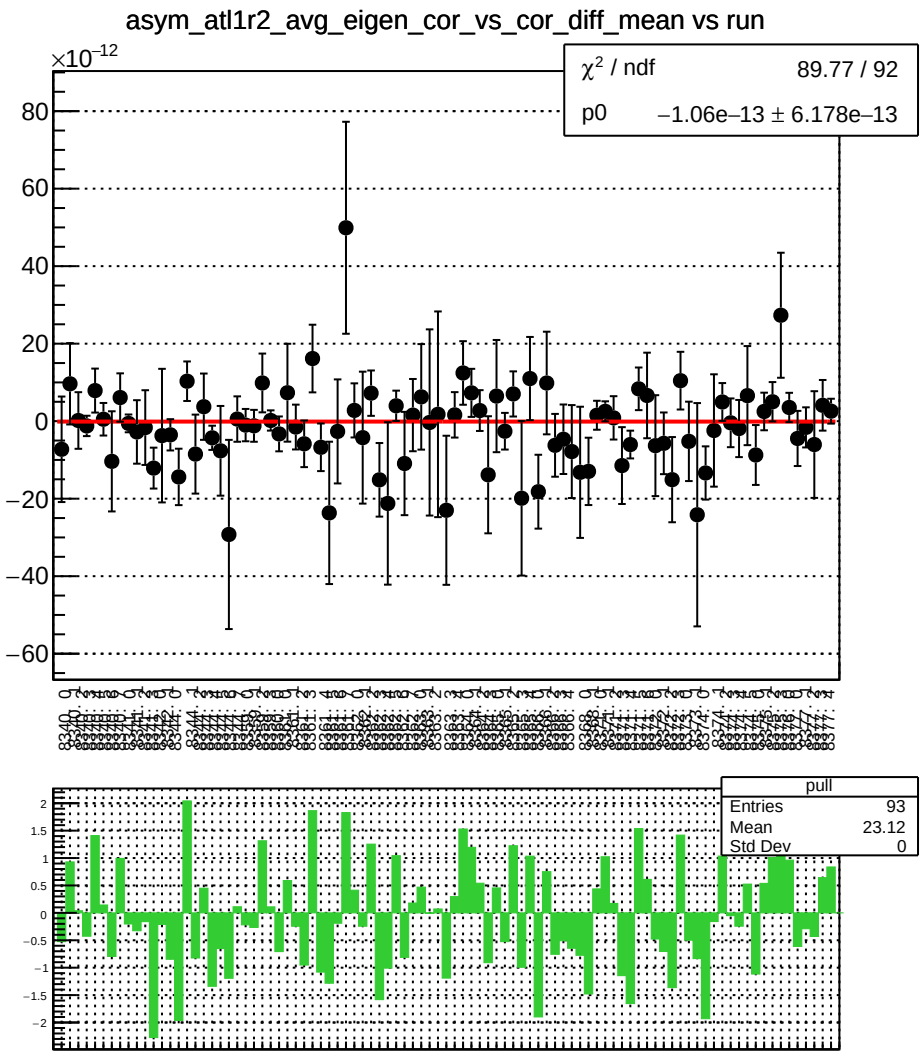

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.03 / 92
p0 −0.1338 ± 0.1631
pull
Entries 93
Mean 684.4
Std Dev 0
pull1D
Entries 93
Mean −0.00556
Std Dev 0.9392

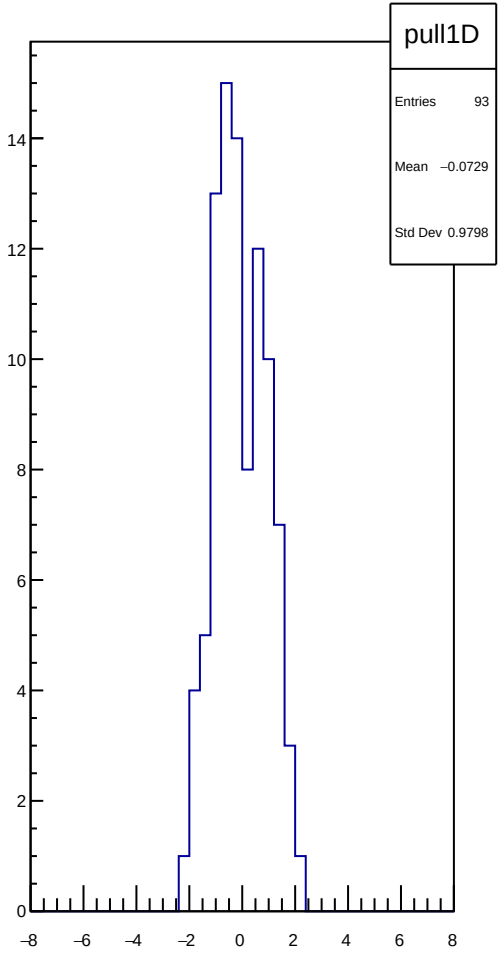

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.479e+04 / 92
p0 154.6 ± 0.1153
260
240
220
200
180
160
140
120
100

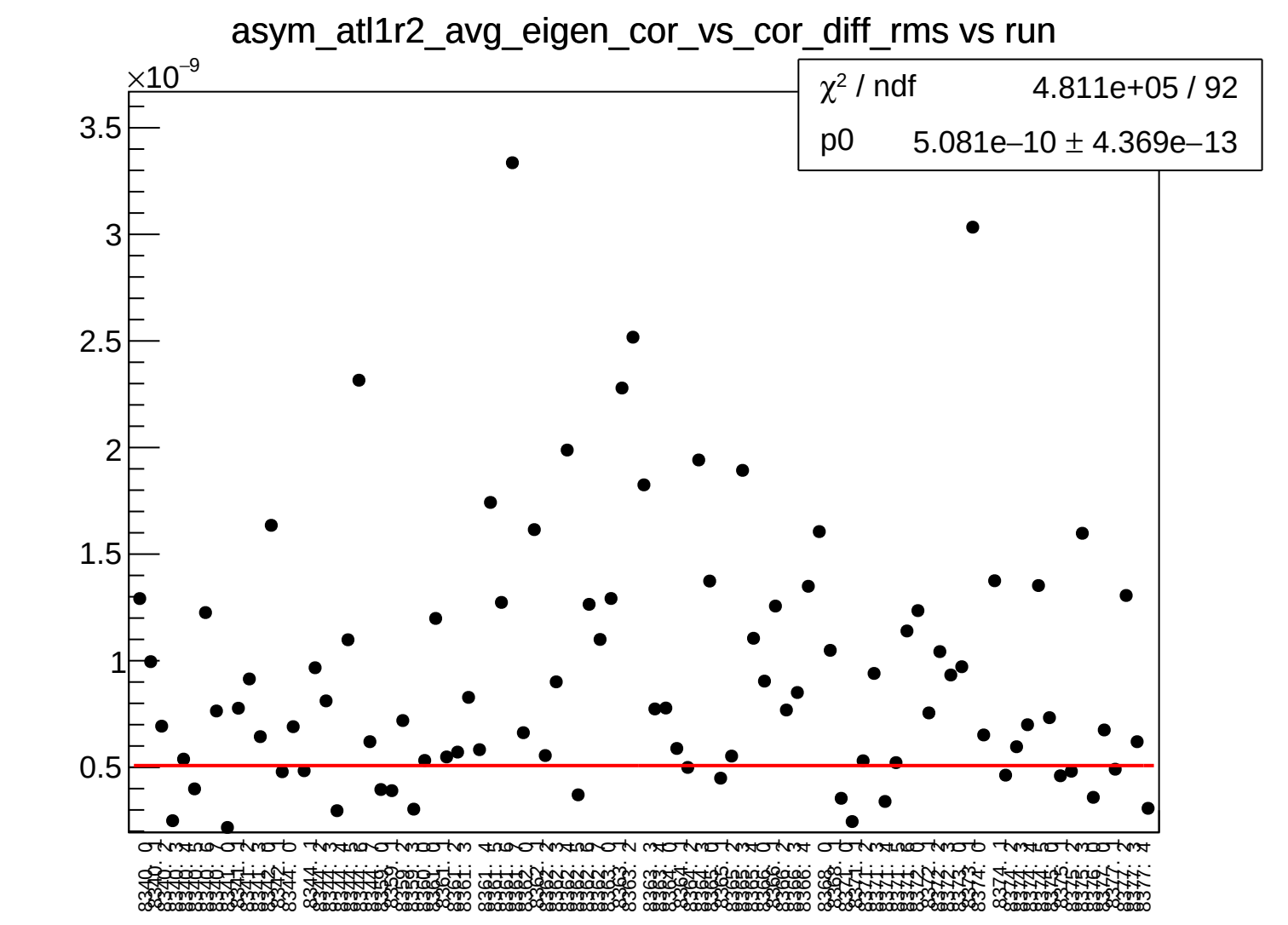

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.03 / 92
p0 −0.1338 ± 0.1631
pull
Entries 93
Mean 684.4
Std Dev 0

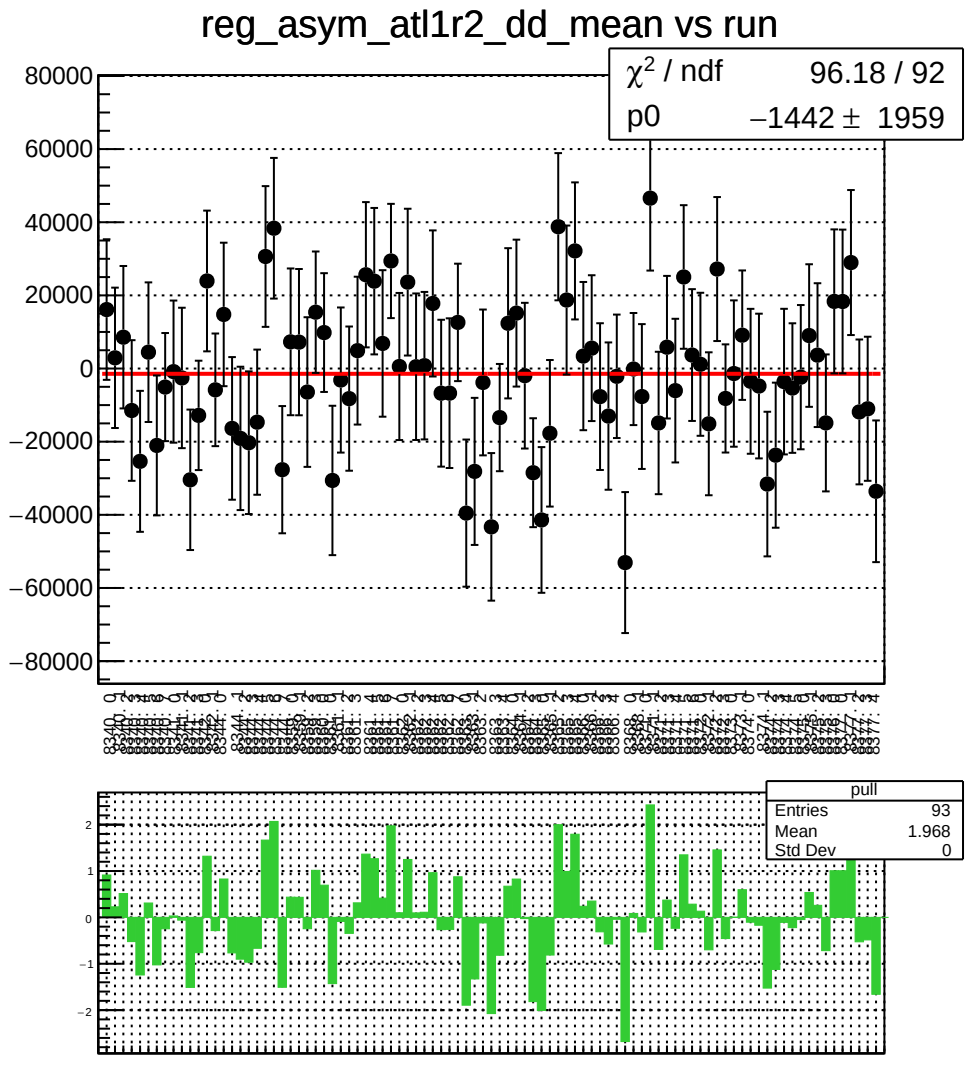

pull1D
Entries 93
Mean −0.00556
Std Dev 0.9392

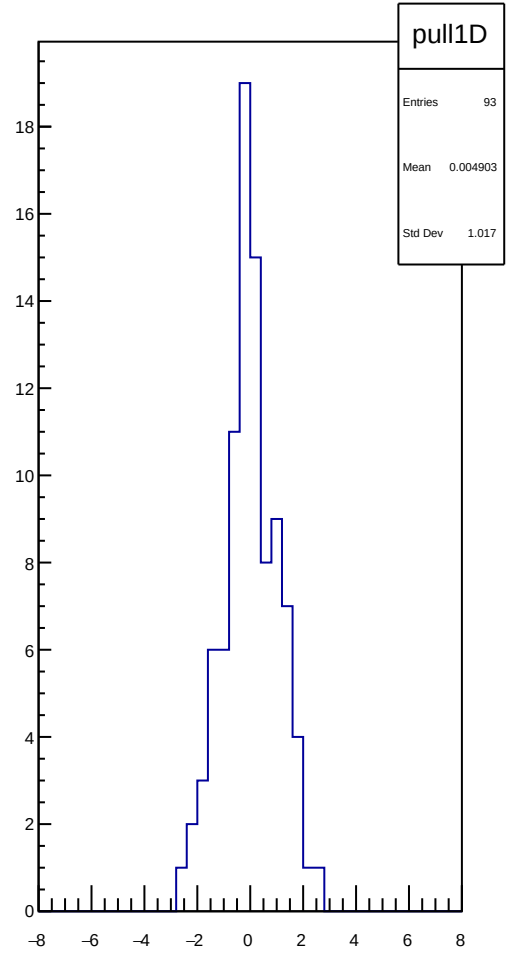

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.479e+04 / 92
p0 154.6 ± 0.1153
260
240
220
200
180
160
140
120
100

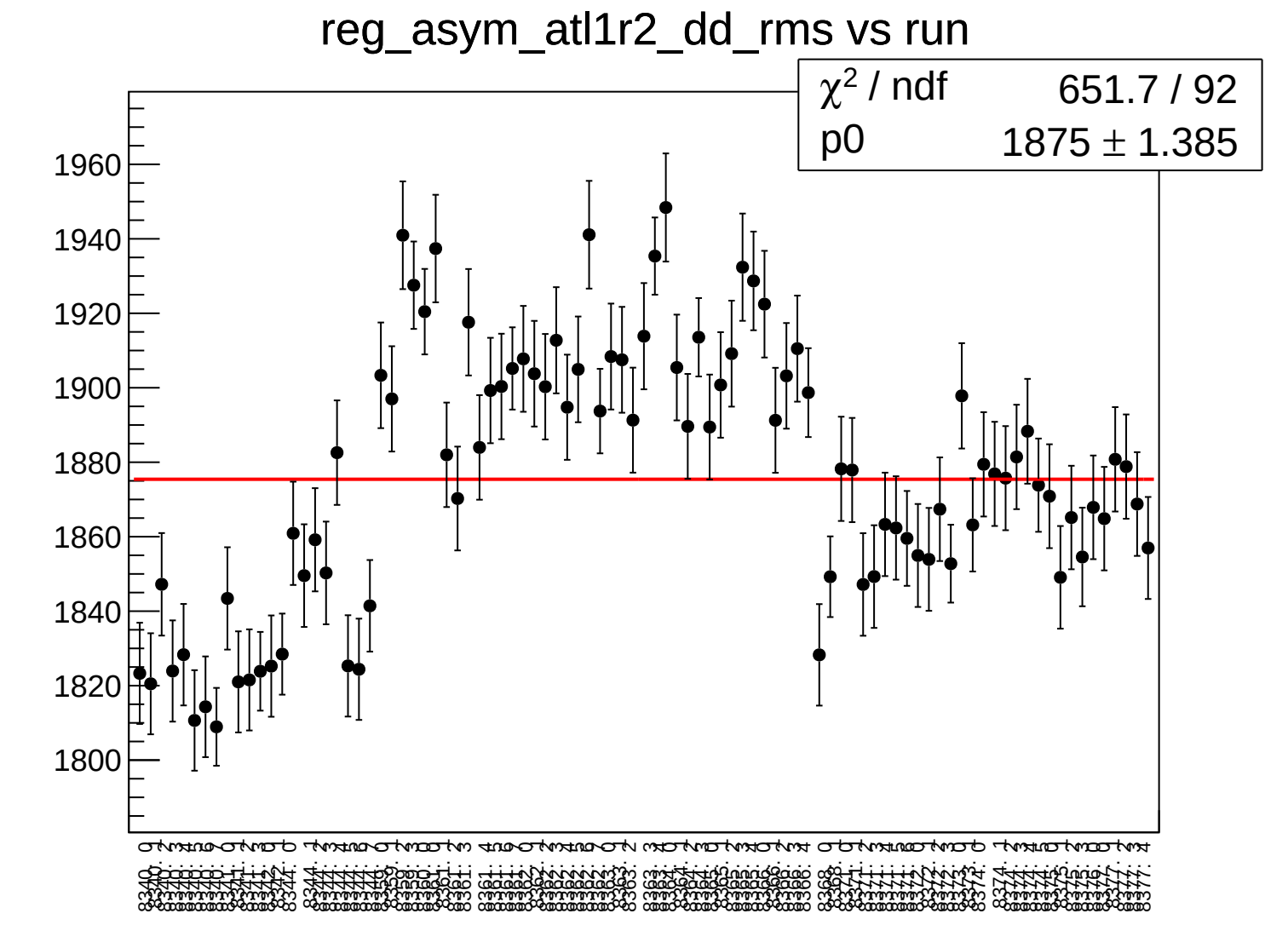

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.77 / 92
p0 −1.06e−13 ± 6.178e−13
pull
Entries 93
Mean 23.12
Std Dev 0

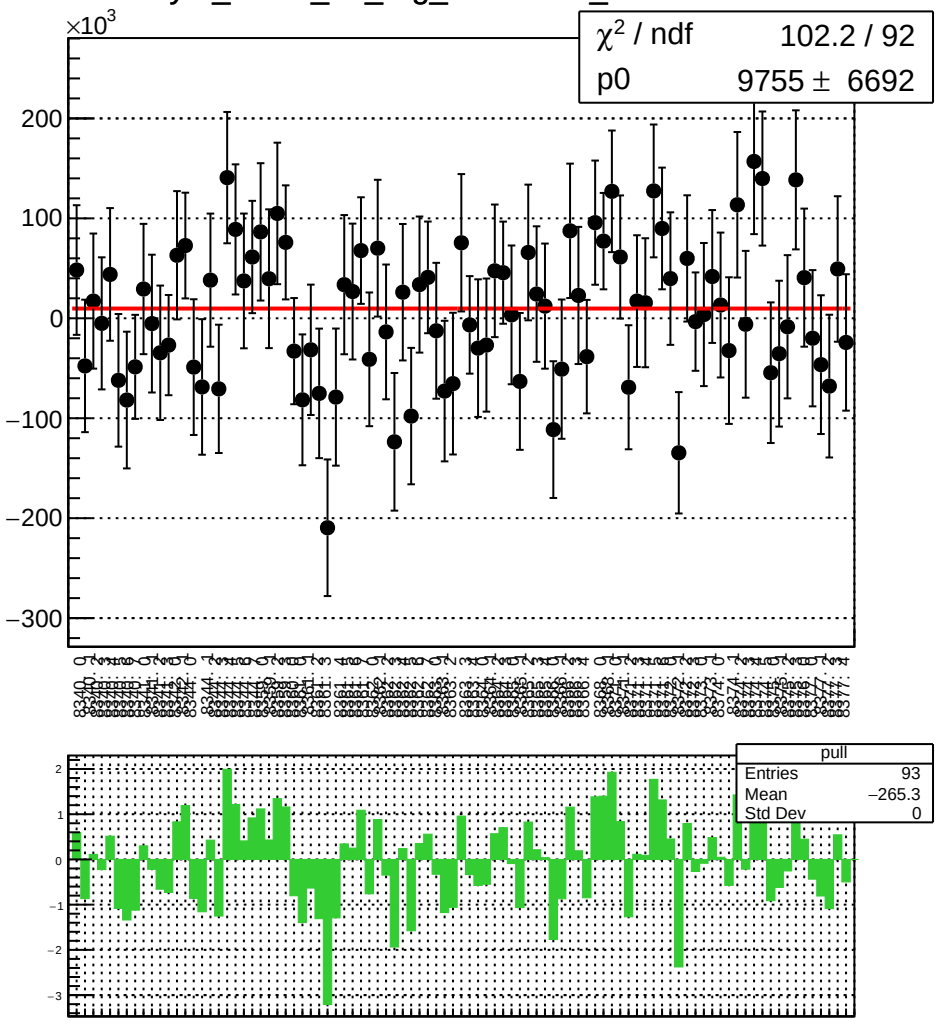

pull1D
Entries 93
Mean −0.0729
Std Dev 0.9798

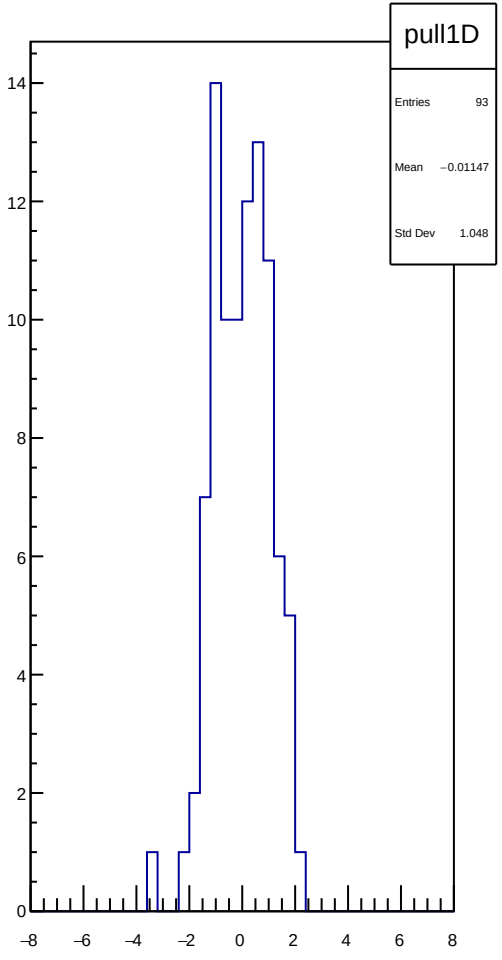

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.811e+05 / 92
p0 5.081e−10 ± 4.369e−13
3.5
3
2.5
2
1.5
1
0.5

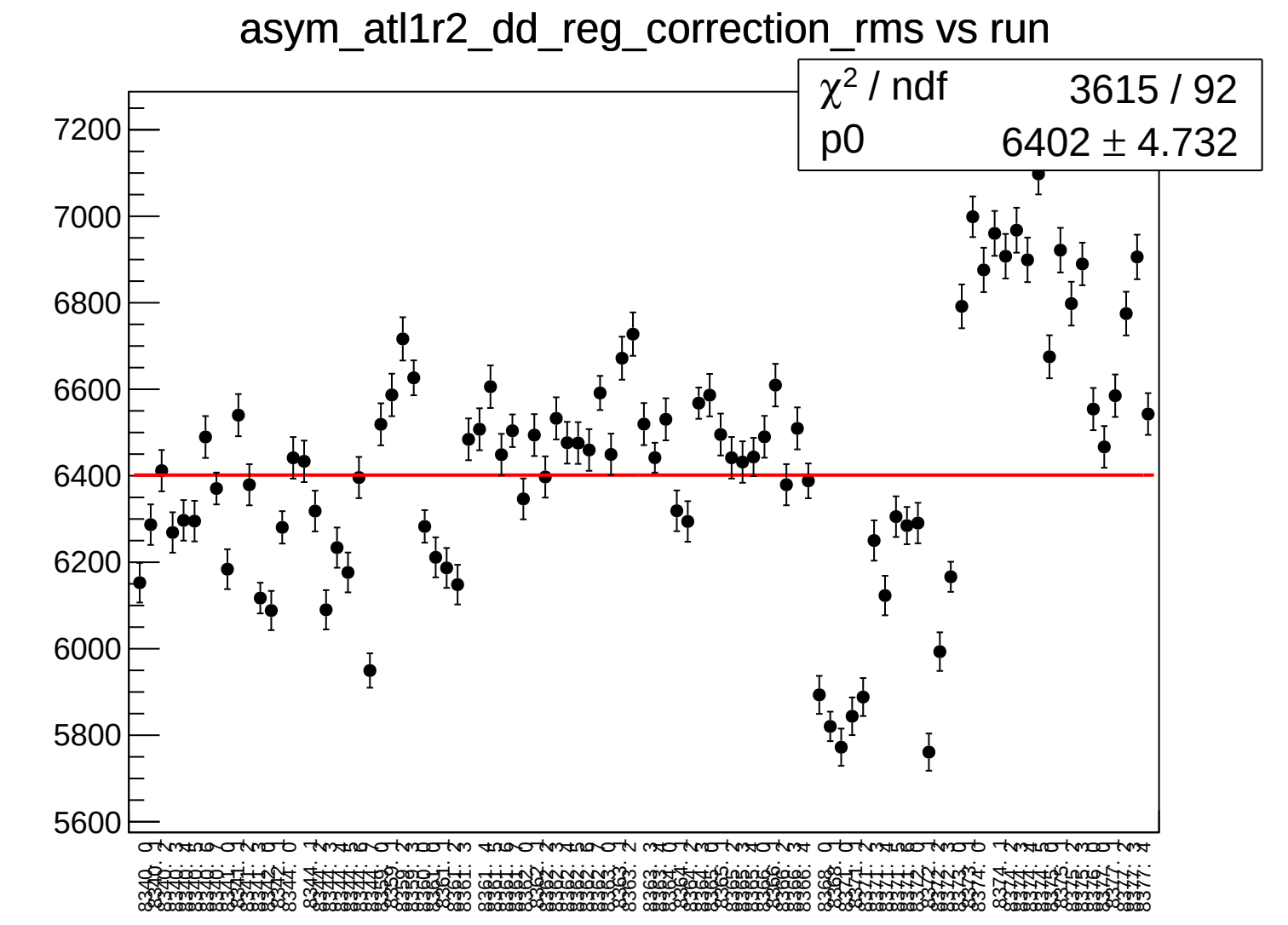

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 96.18 / 92
p0 −1442 ± 1959
pull
Entries 93
Mean 1.968
Std Dev 0

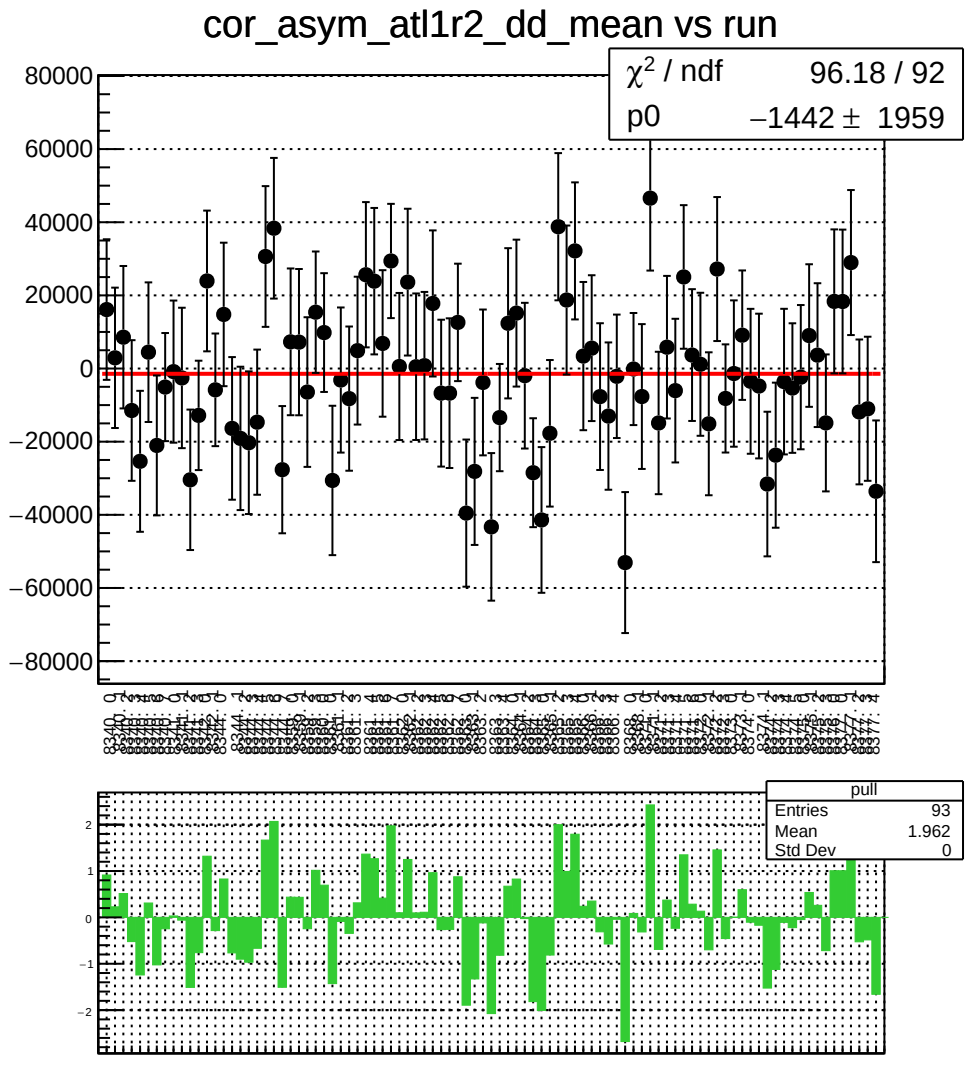

pull1D
Entries 93
Mean 0.004903
Std Dev 1.017

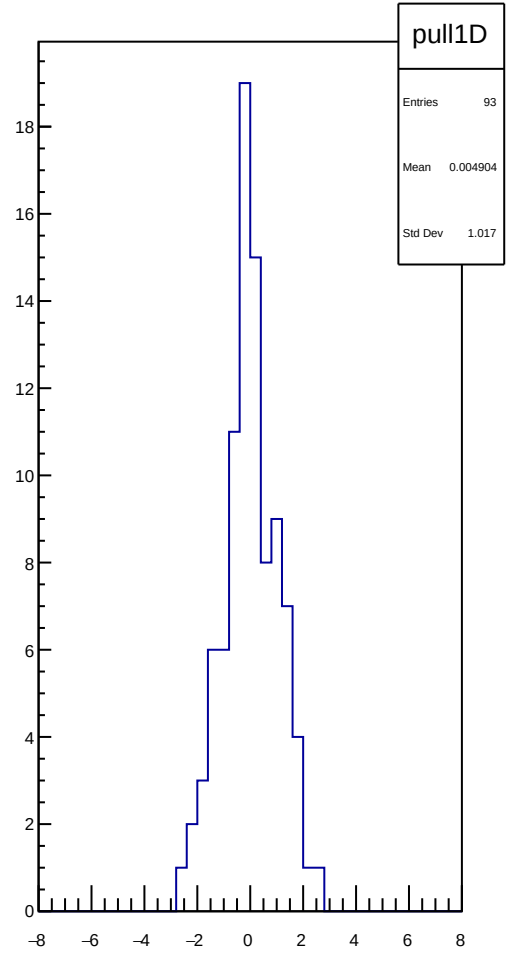

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 651.7 / 92
p0 1875 ± 1.385
1960
1940
1920
1900
1880
1860
1840
1820
1800

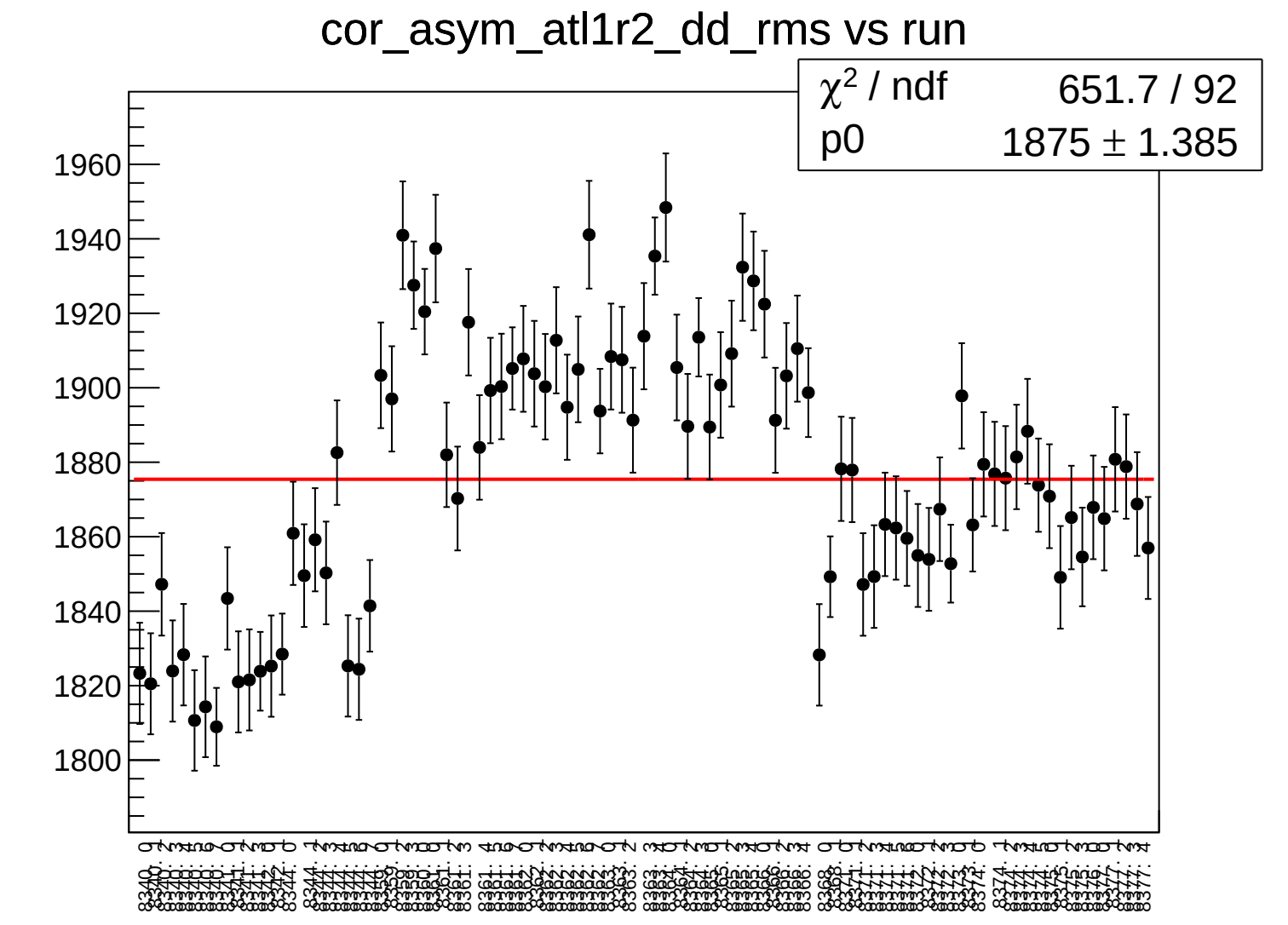

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 102.2 / 92
p0 9755 ± 6692
200
100
0
−100
−200
−300
pull
Entries 93
Mean −265.3
Std Dev 0
2
1
0
−1
−2
−3

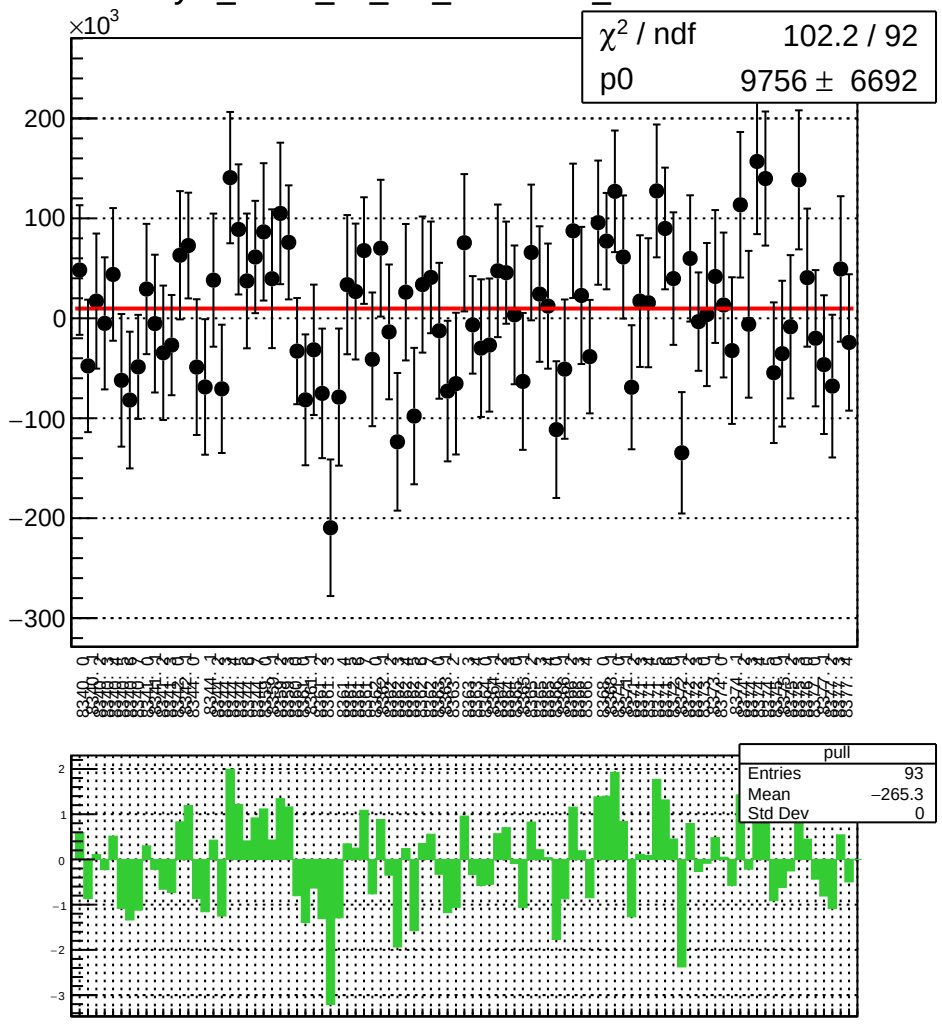

pull1D
Entries 93
Mean −0.01147
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

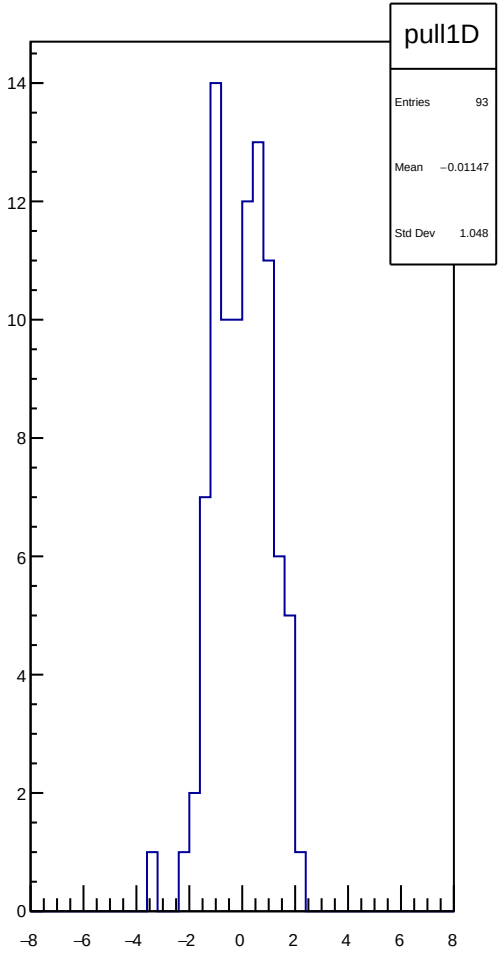

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3615 / 92
p0 6402 ± 4.732
7200
7000
6800
6600
6400
6200
6000
5800
5600

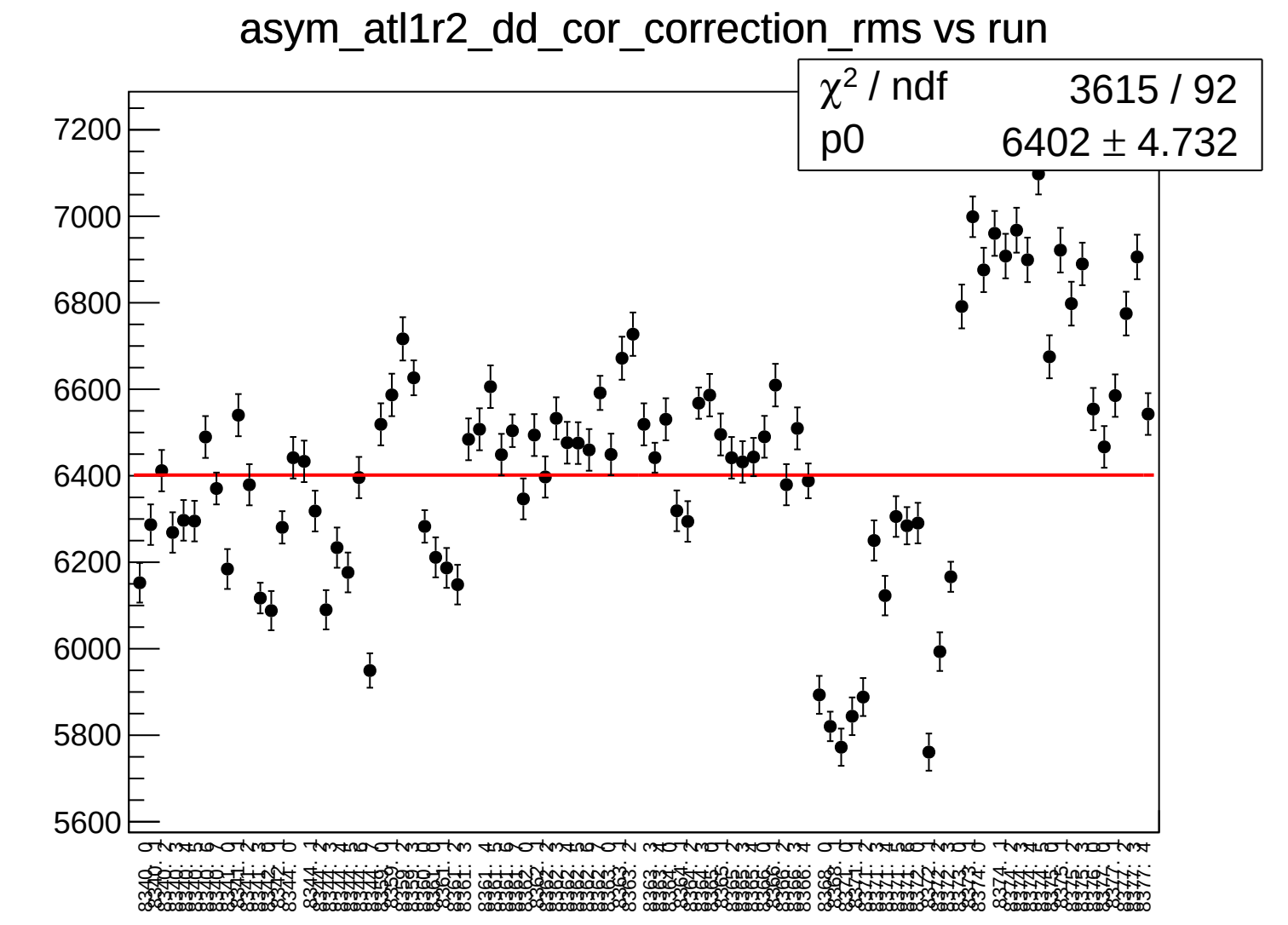

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 96.18 / 92
p0 −1442 ± 1959
pull
Entries 93
Mean 1.962
Std Dev 0

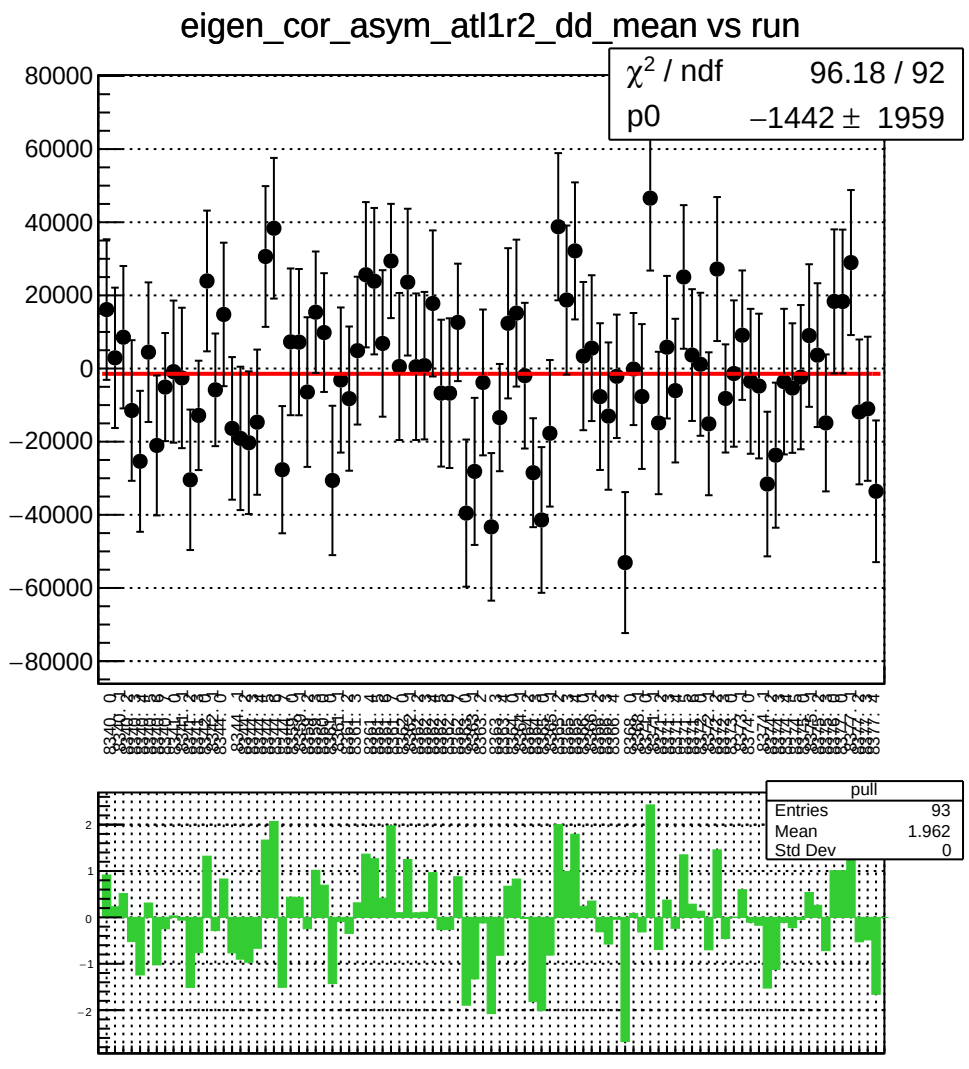

pull1D
Entries 93
Mean 0.004904
Std Dev 1.017

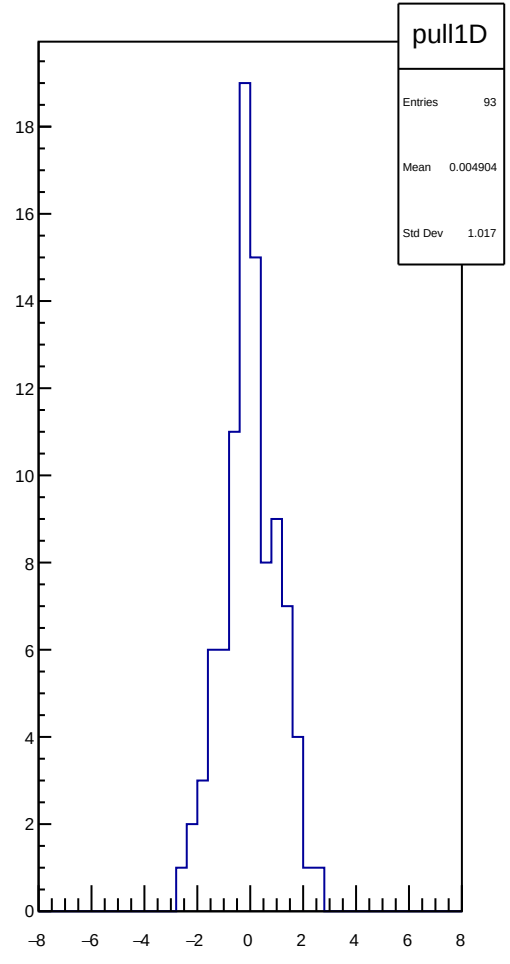

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 651.7 / 92
p0 1875 ± 1.385
1960
1940
1920
1900
1880
1860
1840
1820
1800

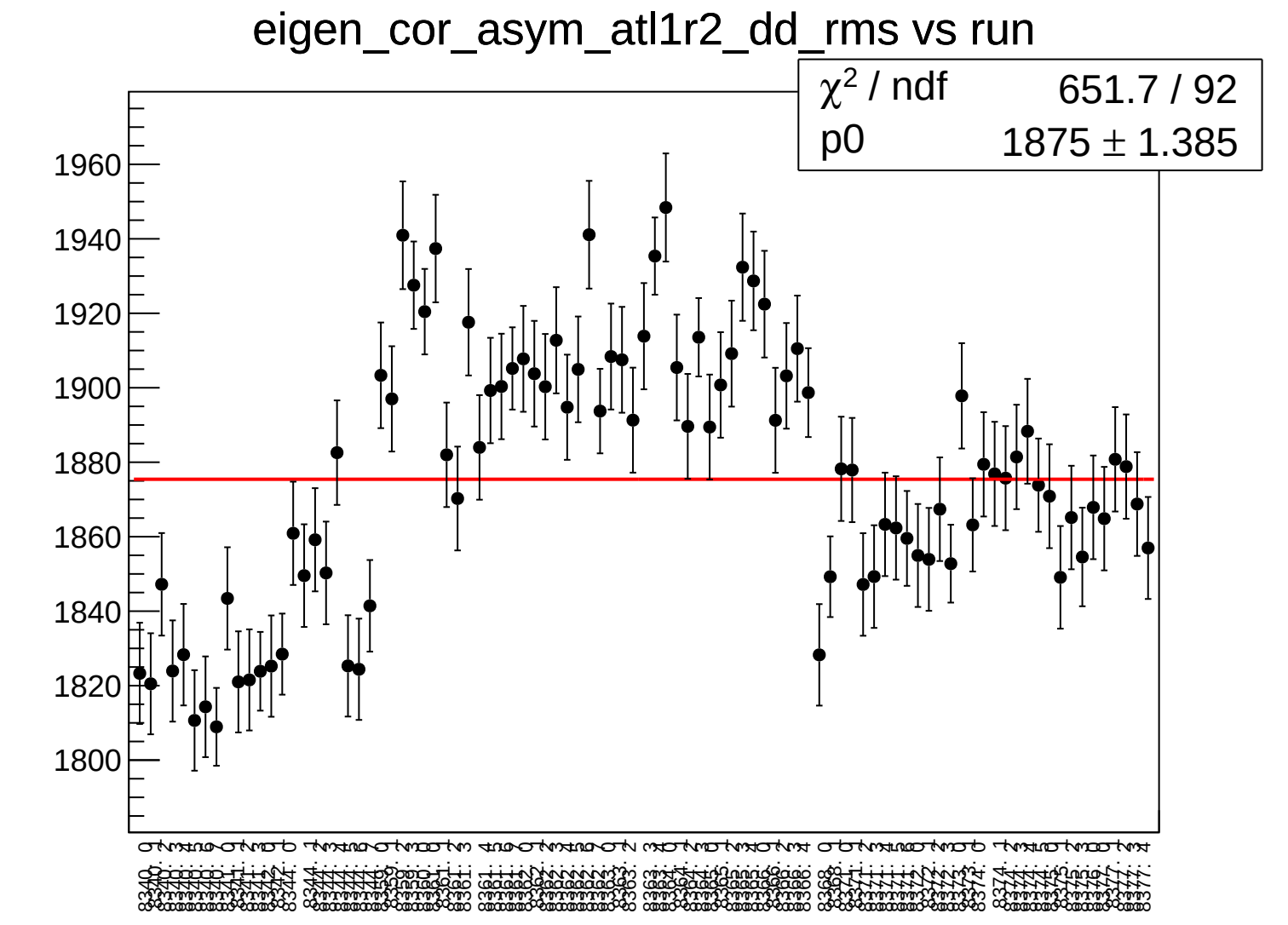

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.2 / 92
p0 9756 ± 6692
200
100
0
−100
−200
−300
pull
Entries 93
Mean −265.3
Std Dev 0
2
1
0
−1
−2
−3

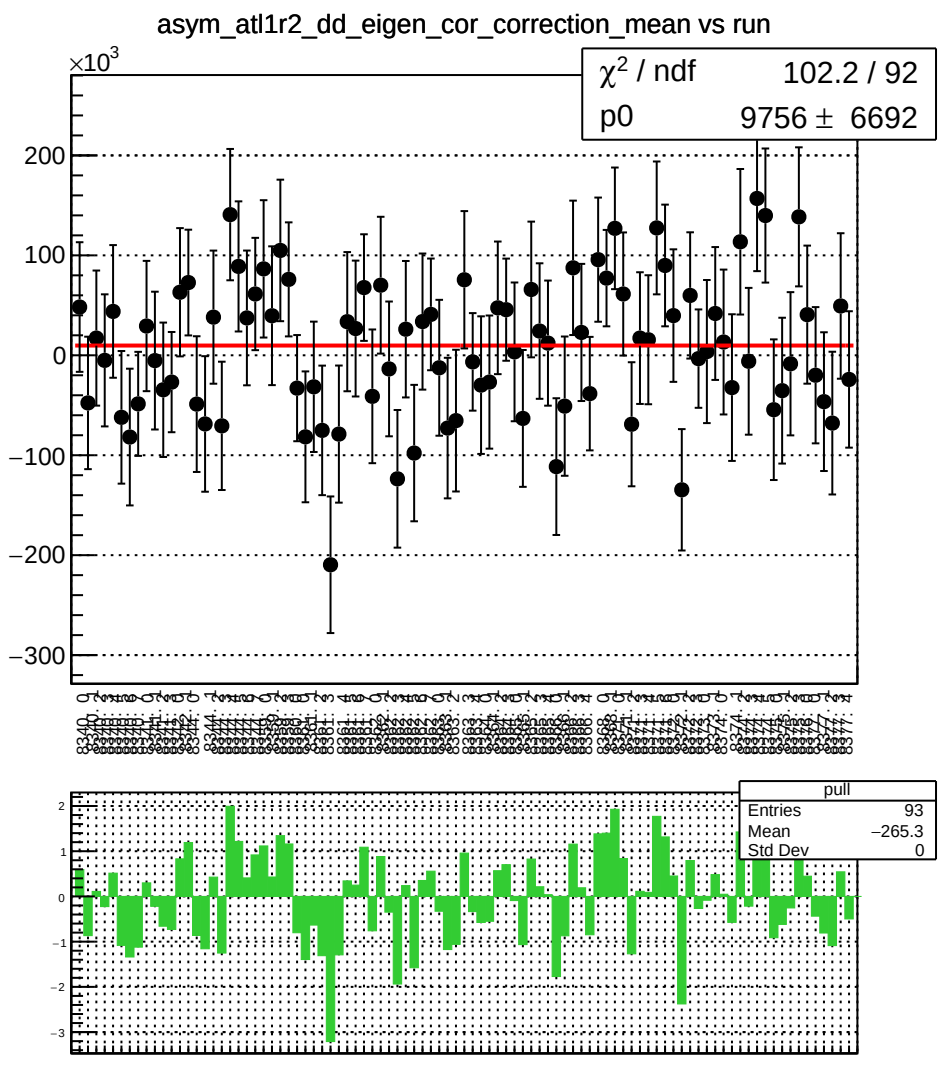

pull1D
Entries 93
Mean −0.01147
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

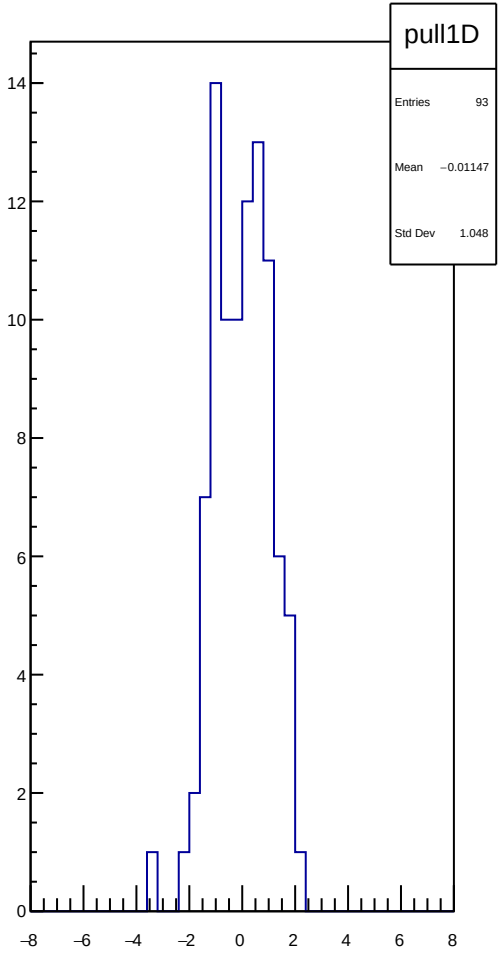

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3615 / 92
p0 6402 ± 4.732
7200
7000
6800
6600
6400
6200
6000
5800
5600

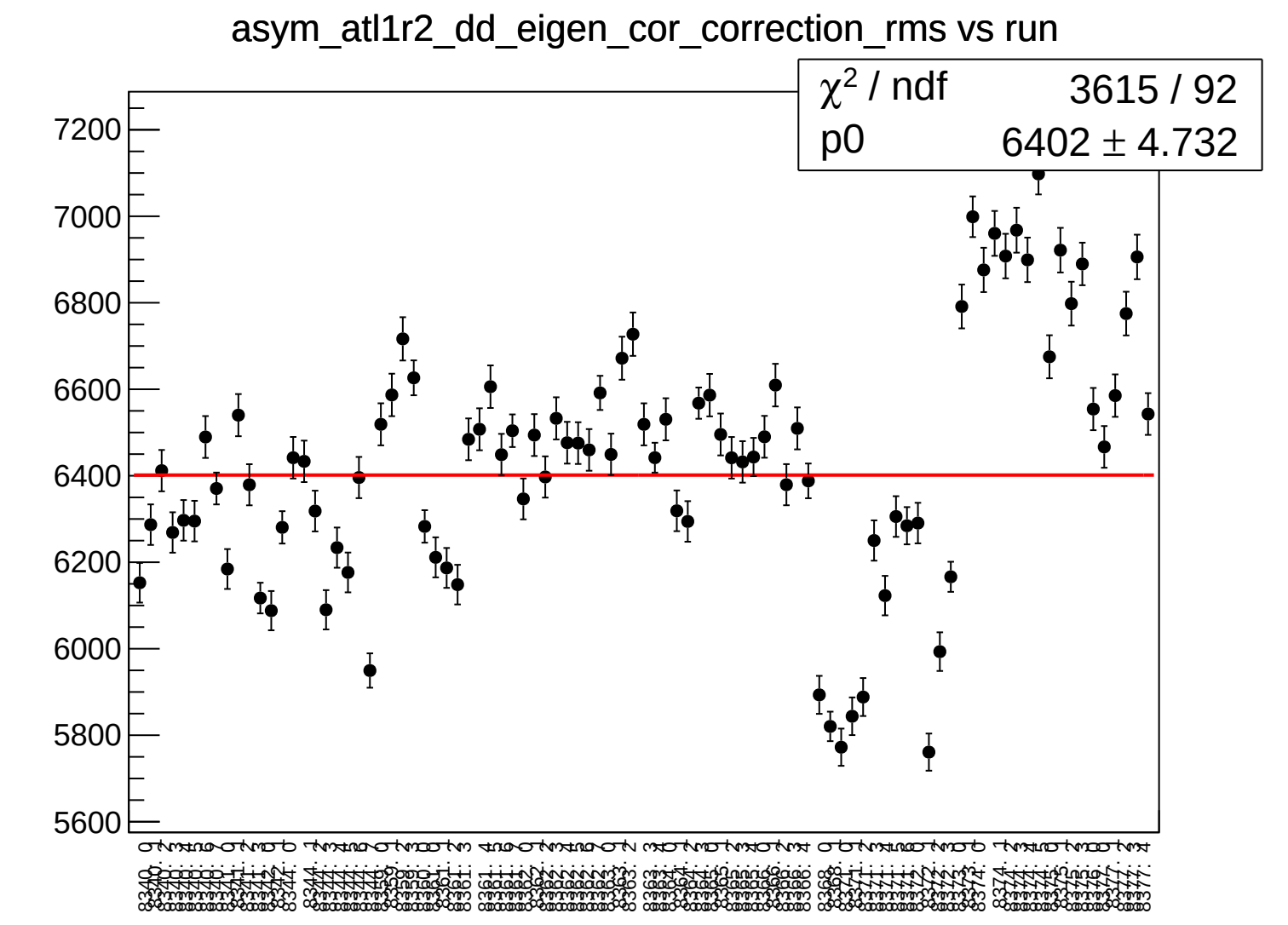

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 96.18 / 92
p0 −1442 ± 1959
pull
Entries 93
Mean 1.962
Std Dev 0

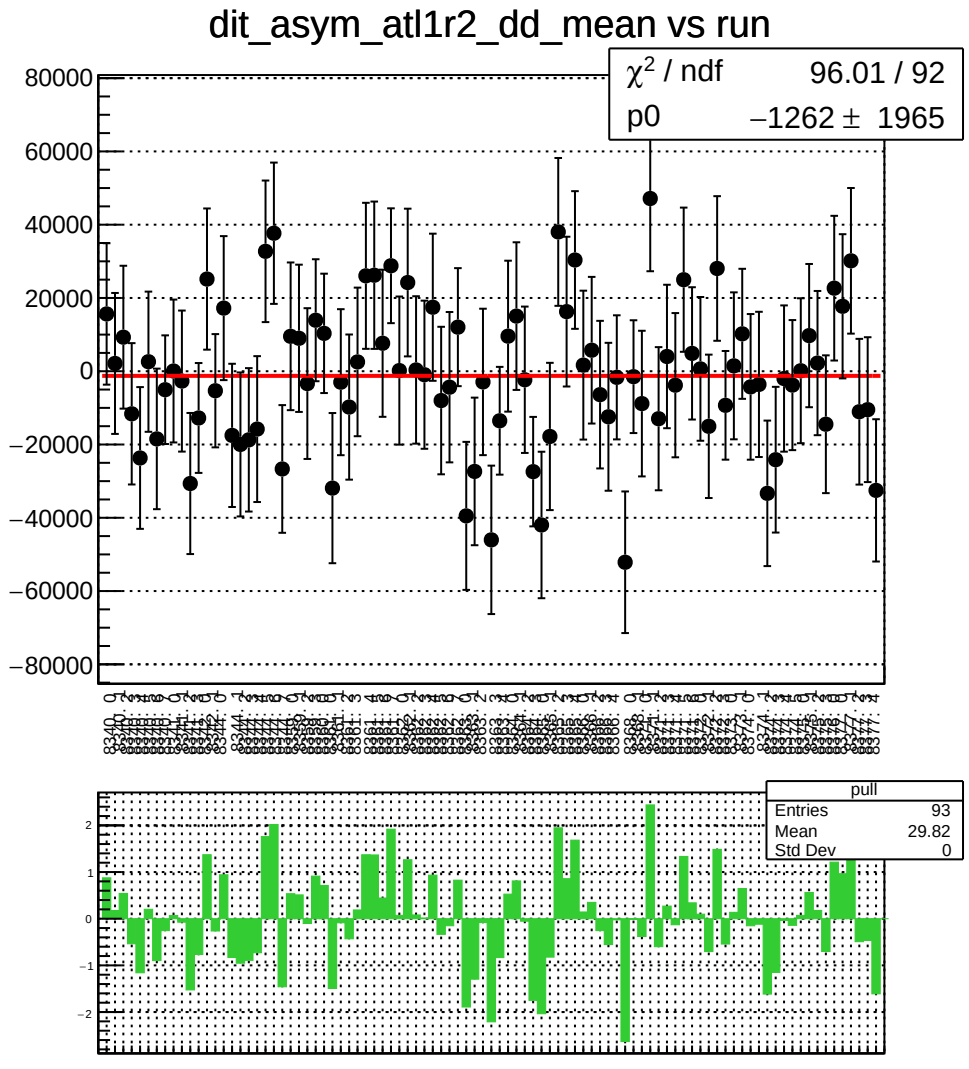

pull1D
Entries 93
Mean 0.004904
Std Dev 1.017

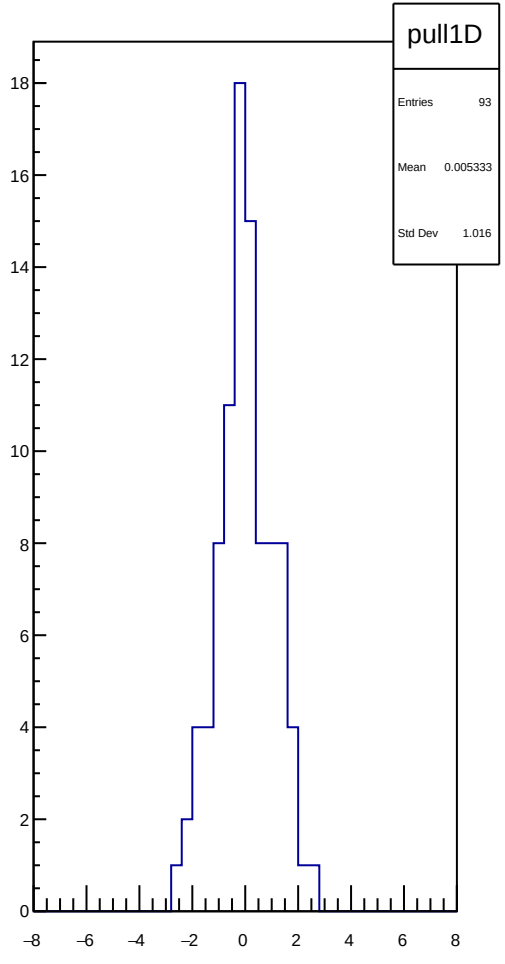

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 651.7 / 92
p0 1875 ± 1.385
1960
1940
1920
1900
1880
1860
1840
1820
1800

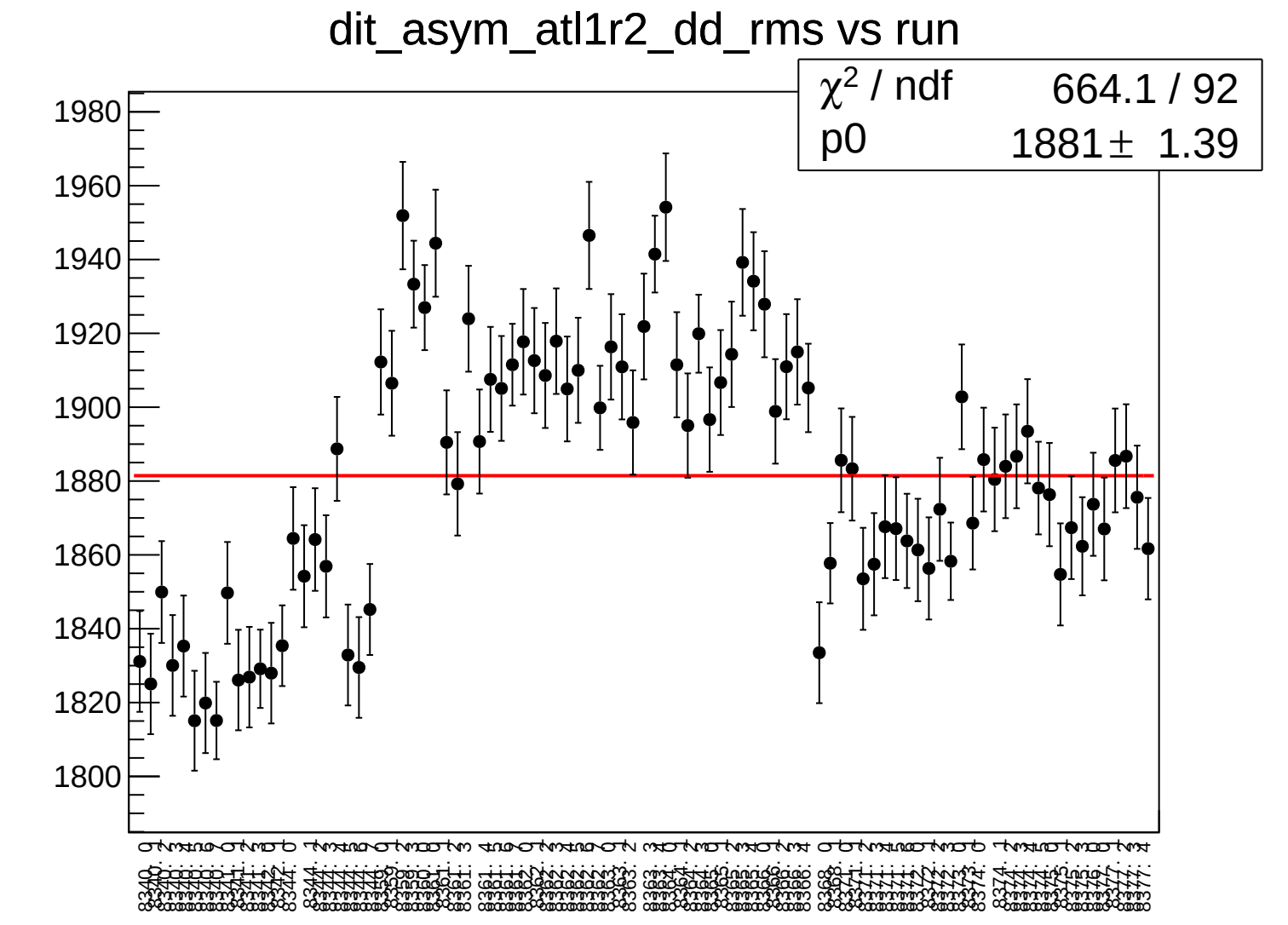

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 102.2 / 92
p0 9756 ± 6692
200
100
0
−100
−200
−300
pull
Entries 93
Mean −265.3
Std Dev 0
2
1
0
−1
−2
−3

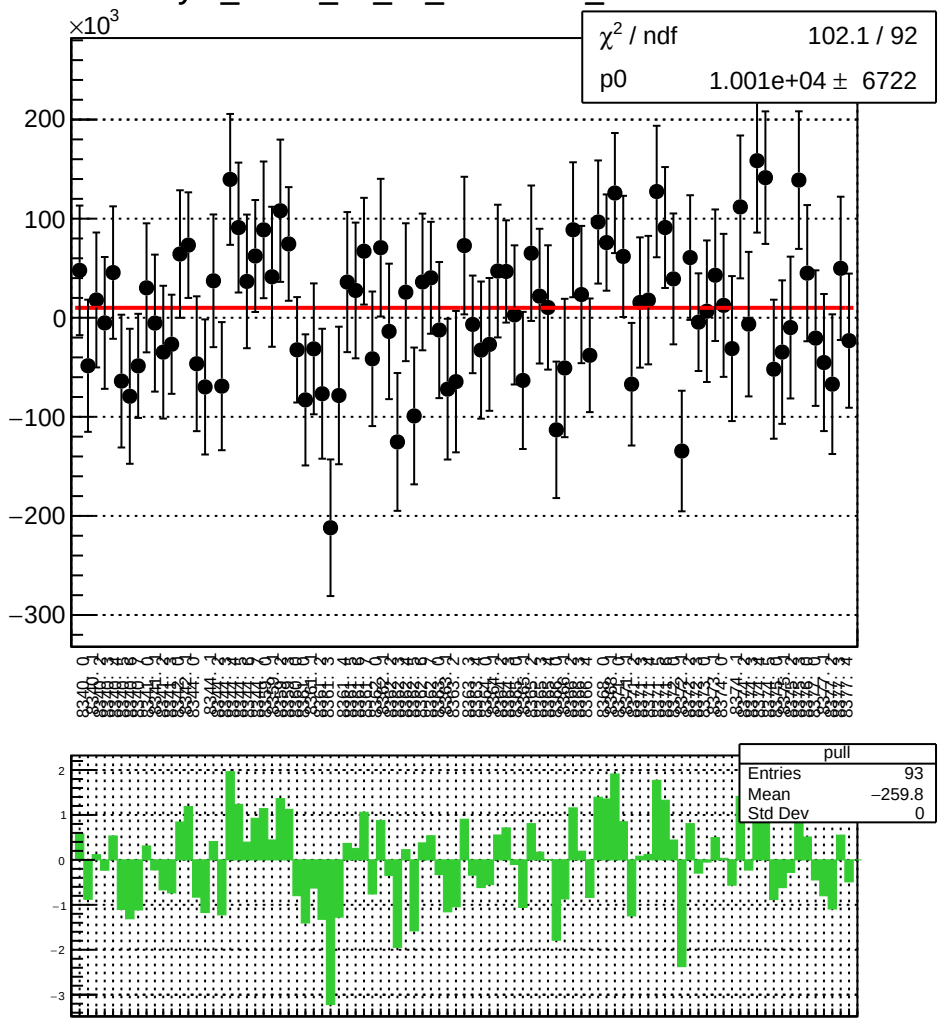

pull1D
Entries 93
Mean −0.01147
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

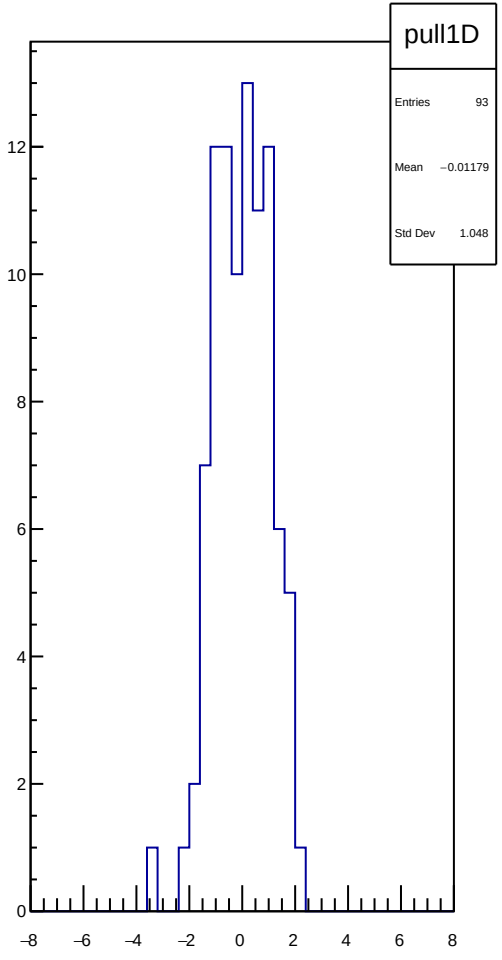

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3615 / 92
p0 6402 ± 4.732
7200
7000
6800
6600
6400
6200
6000
5800
5600

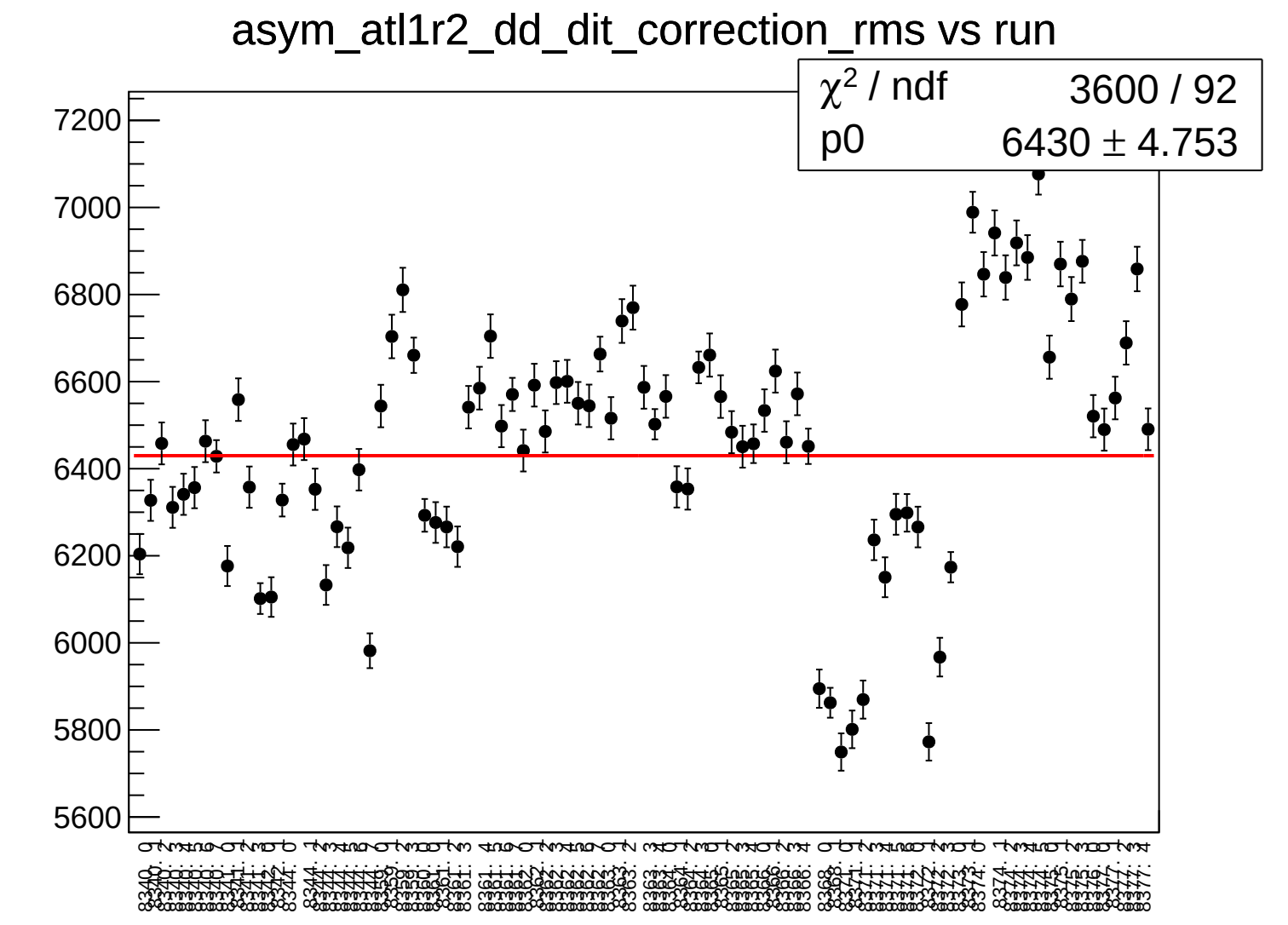

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 96.01 / 92
p0 −1262 ± 1965
pull
Entries 93
Mean 29.82
Std Dev 0

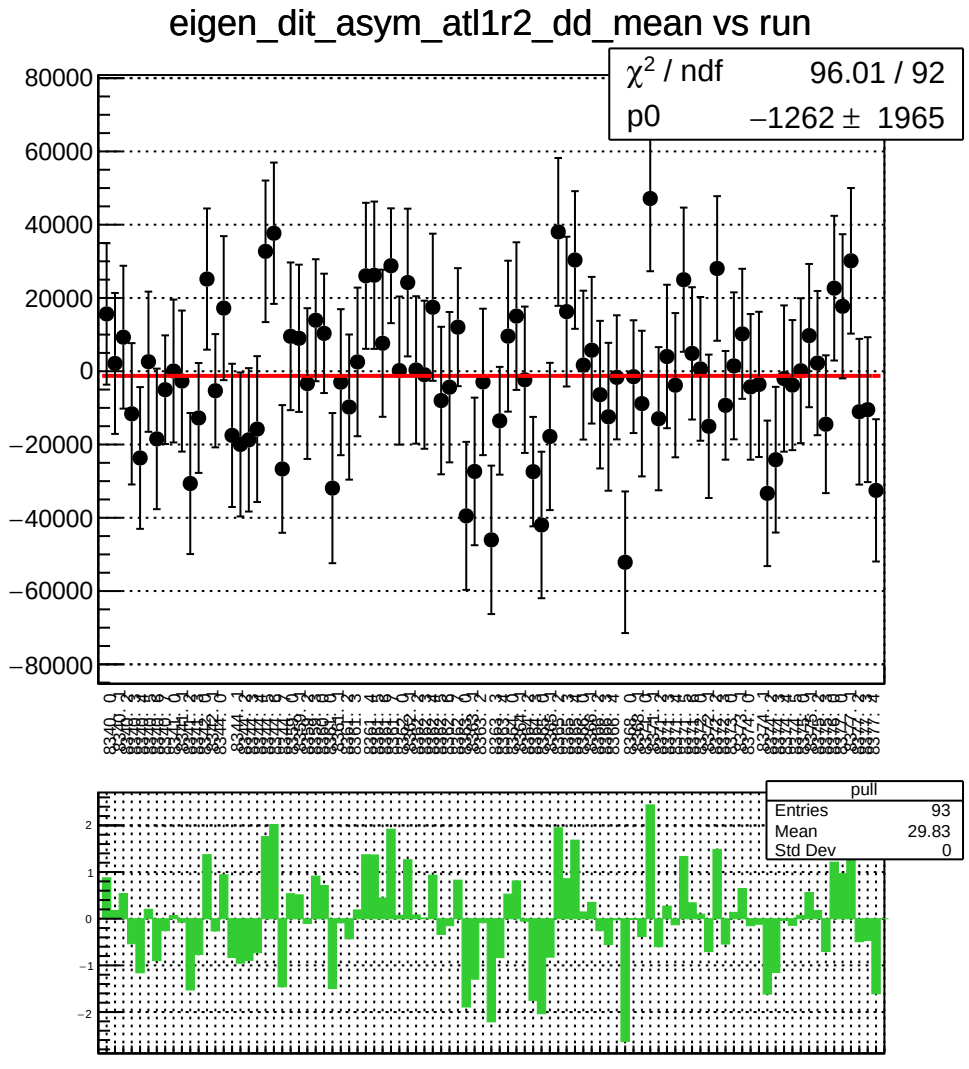

pull1D
Entries 93
Mean 0.005333
Std Dev 1.016

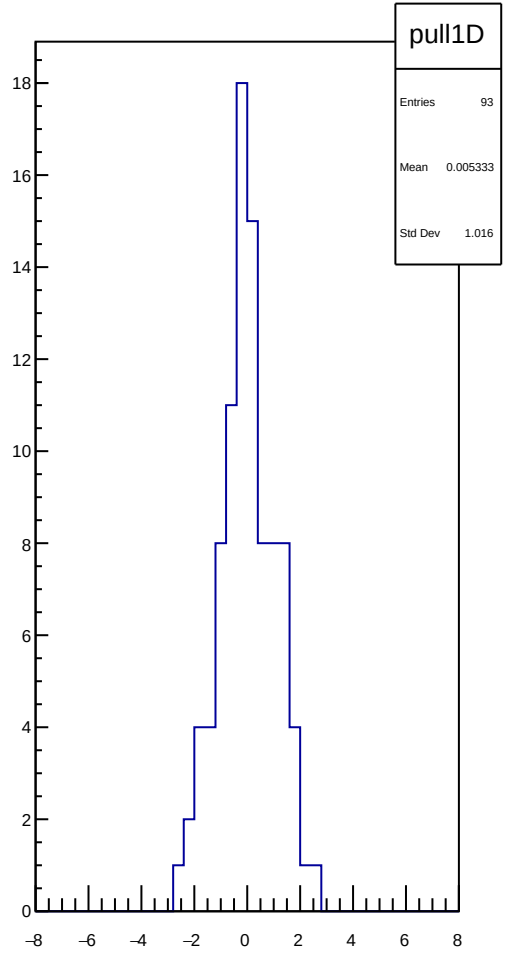

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 664.1 / 92
p0 1881 ± 1.39
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

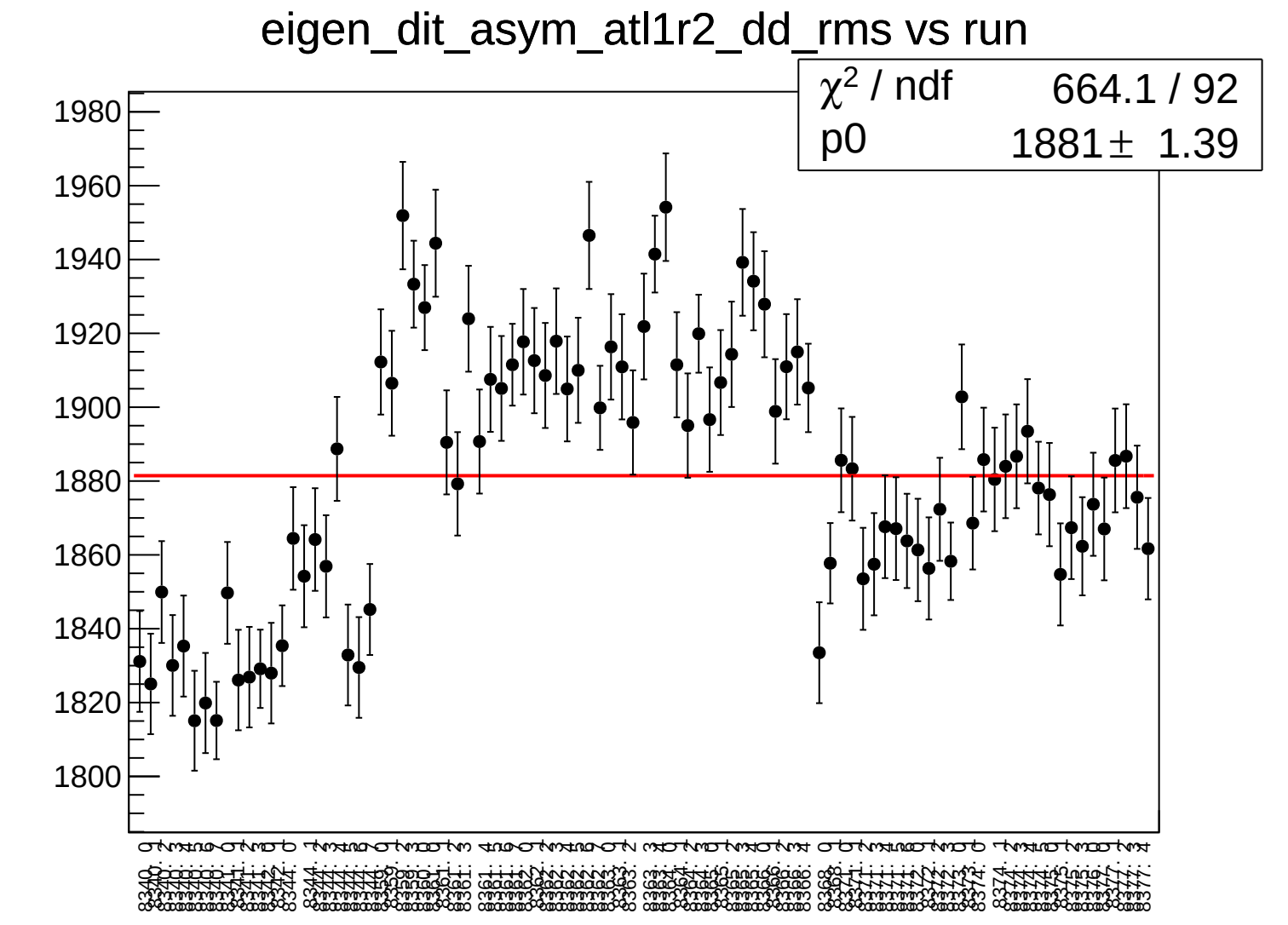

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 102.1 / 92
p0 1.001e+04 ± 6722
200
100
0
−100
−200
−300
pull
Entries 93
Mean −259.8
Std Dev 0
2
1
0
−1
−2
−3

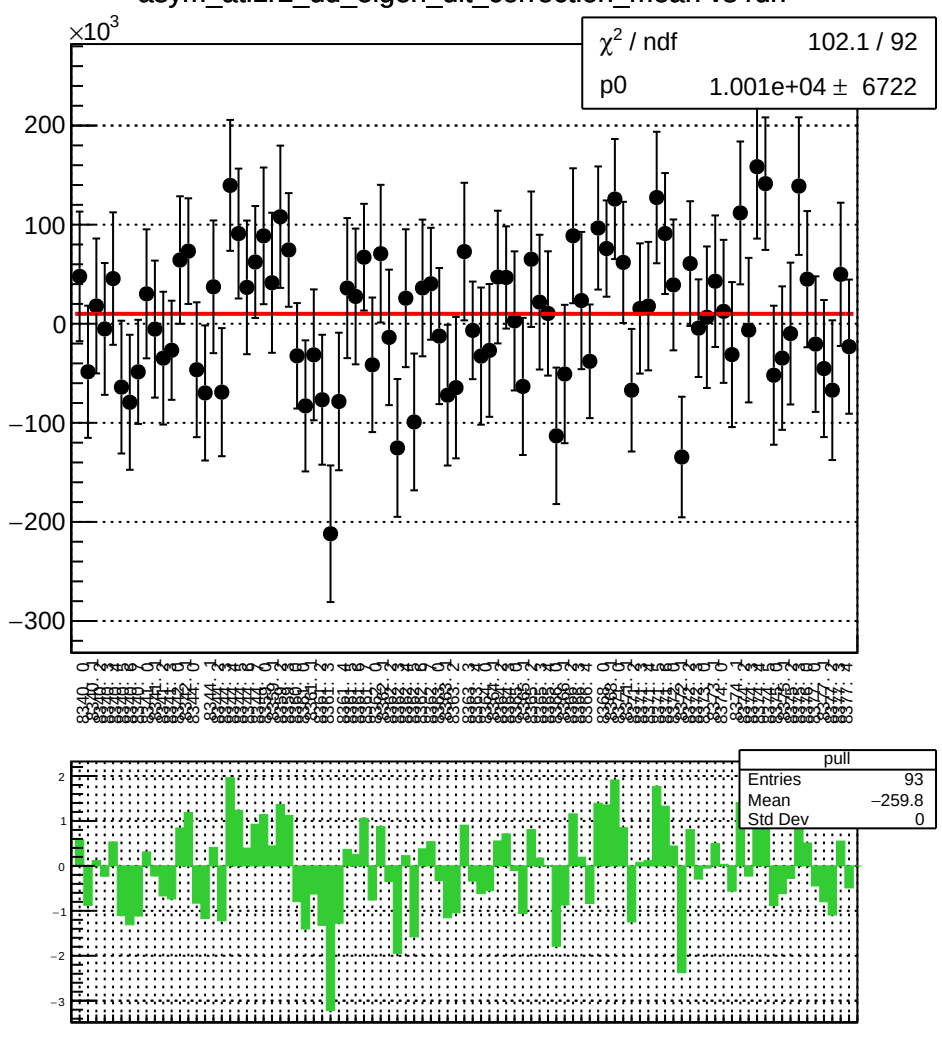

pull1D
Entries 93
Mean −0.01179
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

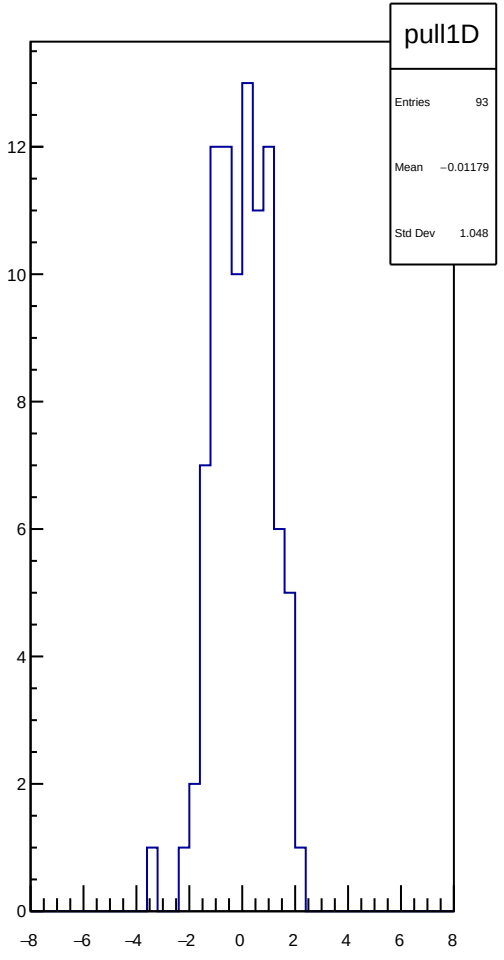

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3600 / 92
p0 6430 ± 4.753
7200
7000
6800
6600
6400
6200
6000
5800
5600

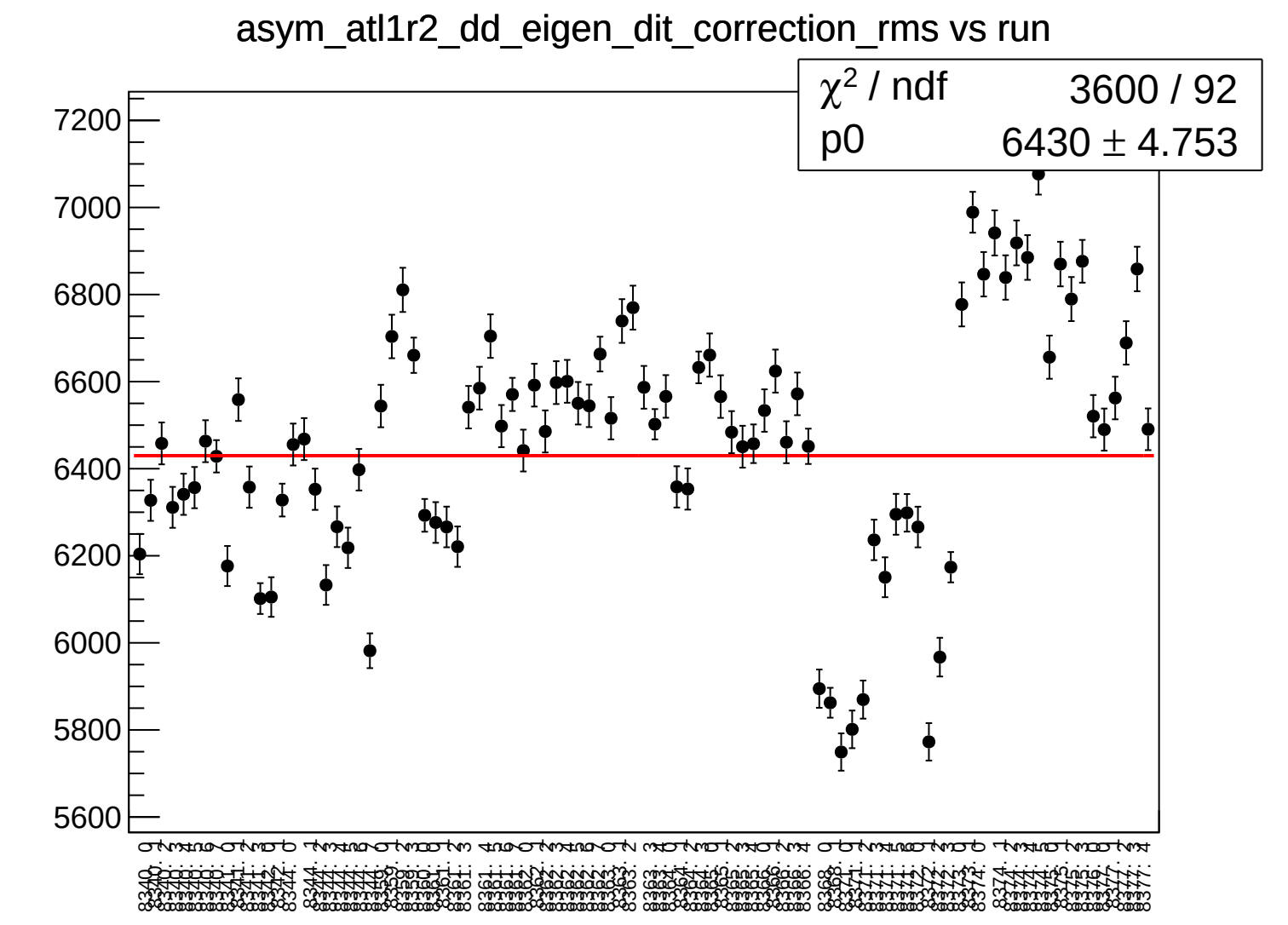

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 96.01 / 92
p0 −1262 ± 1965
pull
Entries 93
Mean 29.83
Std Dev 0

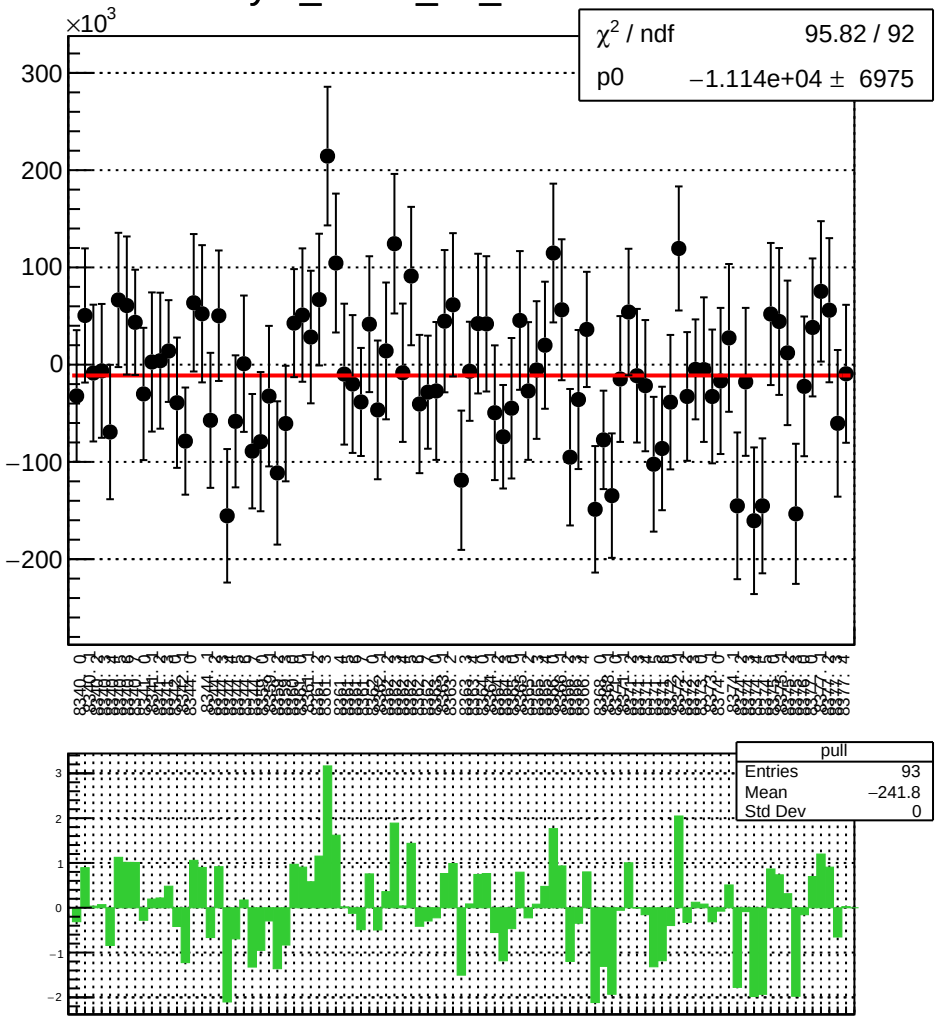

pull1D
Entries 93
Mean 0.005333
Std Dev 1.016

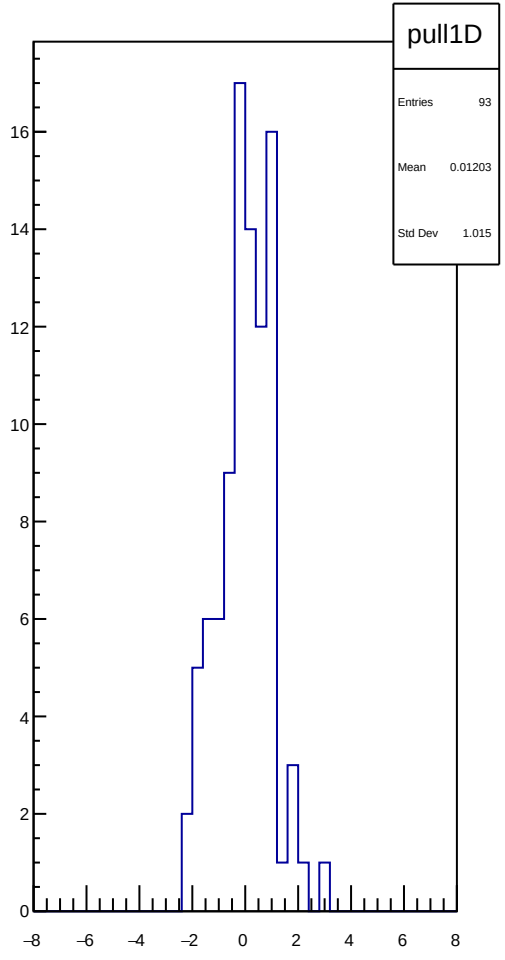

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 664.1 / 92
p0 1881 ± 1.39
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800

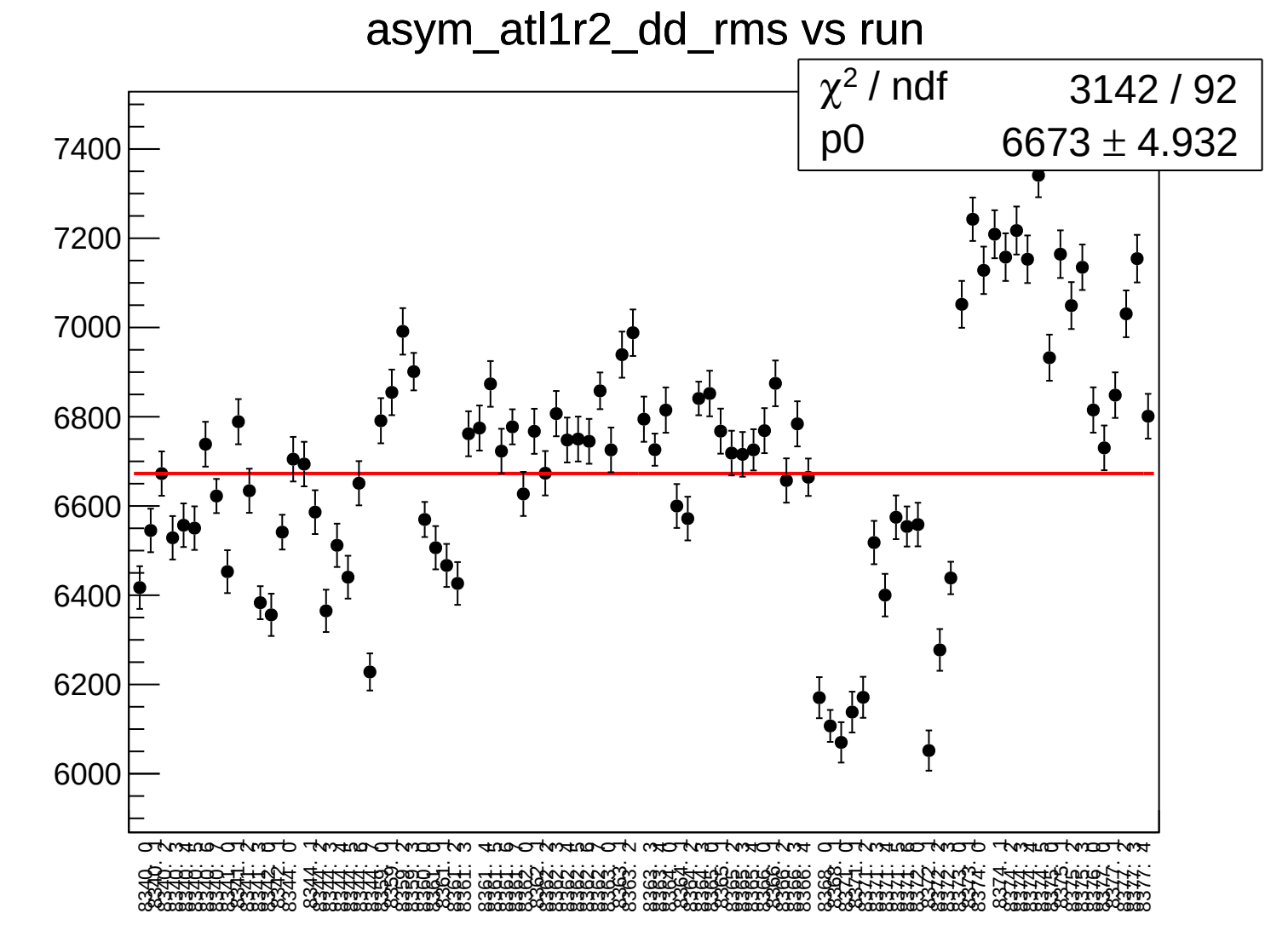

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 102.1 / 92
p0 1.001e+04 ± 6722
200
100
0
−100
−200
−300
pull
Entries 93
Mean −259.8
Std Dev 0
2
1
0
−1
−2
−3

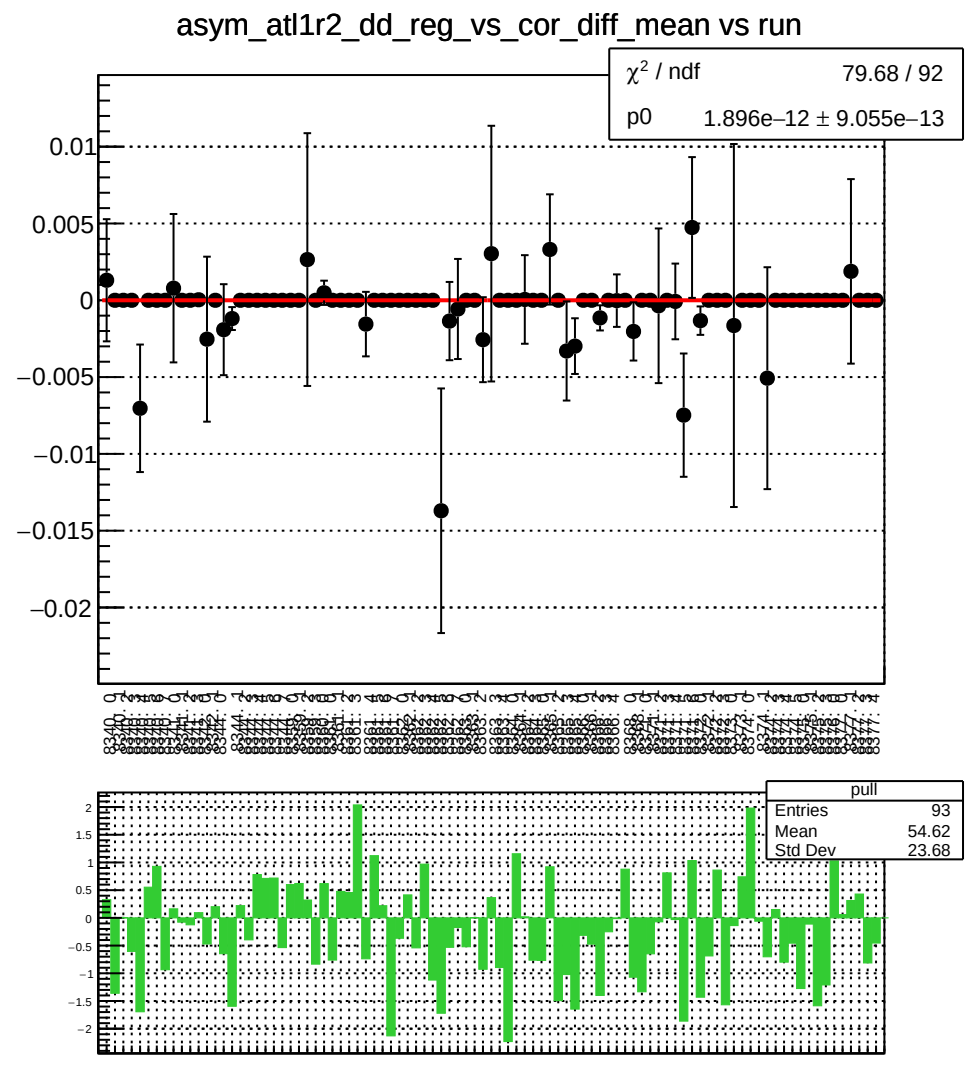

pull1D
Entries 93
Mean −0.01179
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

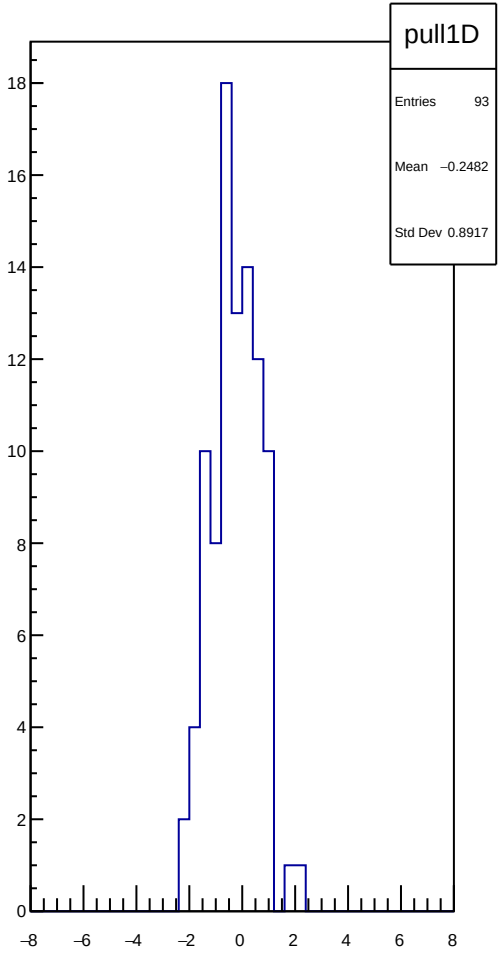

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3600 / 92
p0 6430 ± 4.753
7200
7000
6800
6600
6400
6200
6000
5800
5600

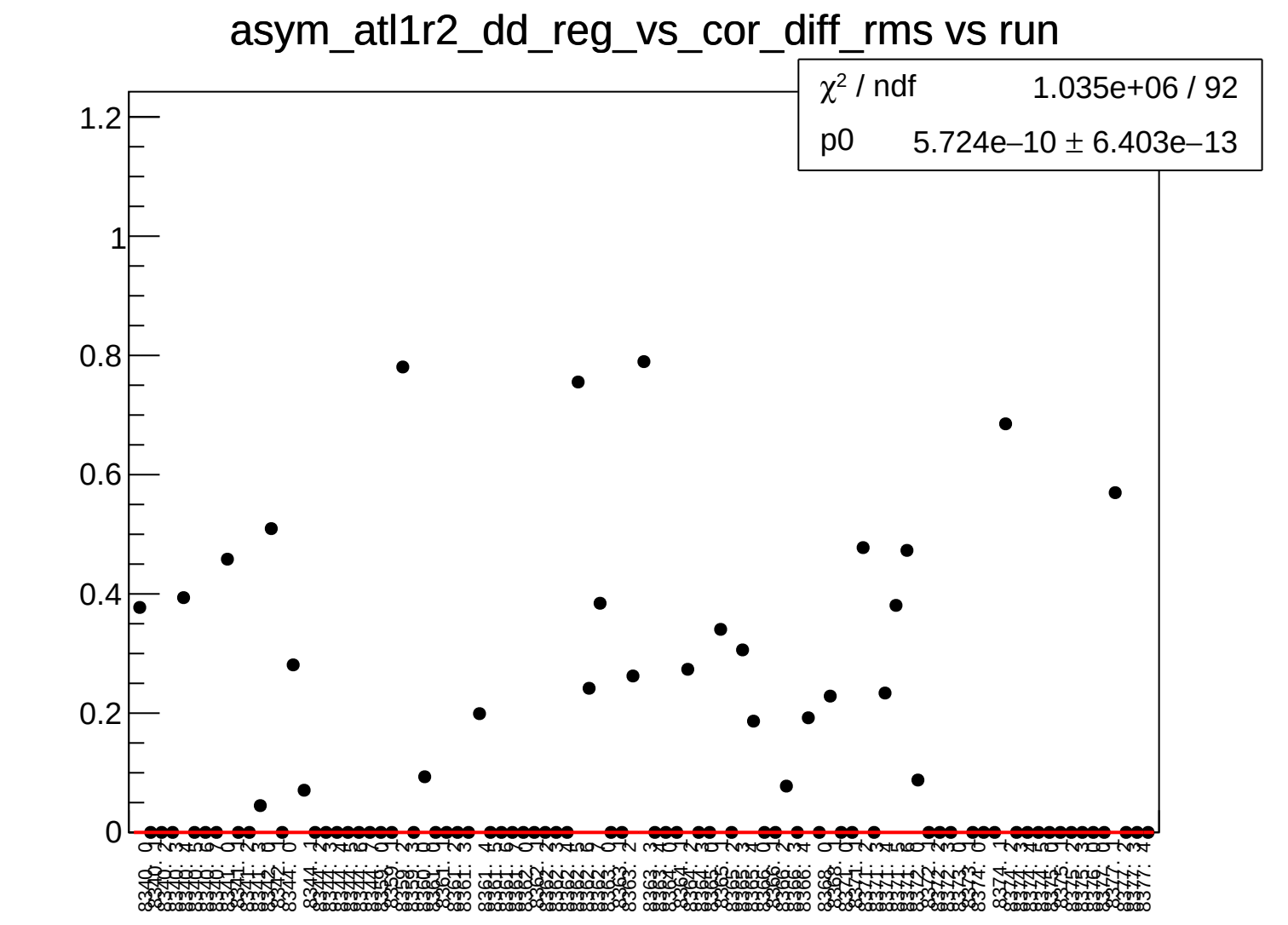

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 95.82 / 92
p0 −1.114e+04 ± 6975
300
200
100
0
−100
−200
pull
Entries 93
Mean −241.8
Std Dev 0
3
2
1
0
−1
−2

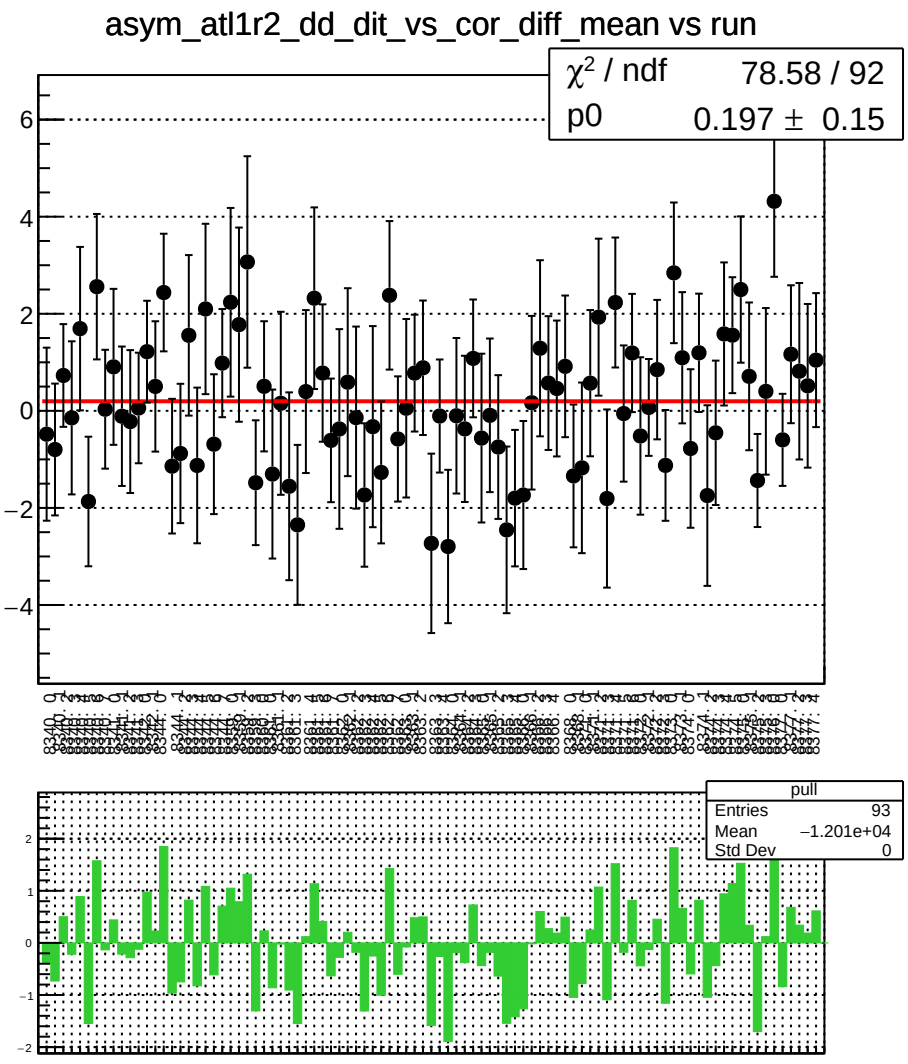

pull1D
Entries 93
Mean 0.01203
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

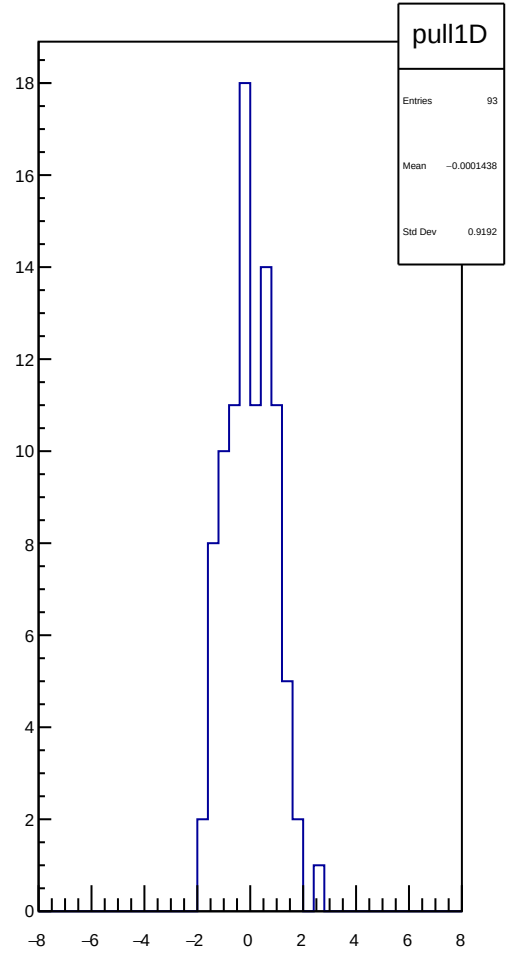

asym_atl1r2_dd_rms vs run
χ² / ndf 3142 / 92
p0 6673 ± 4.932
7400
7200
7000
6800
6600
6400
6200
6000

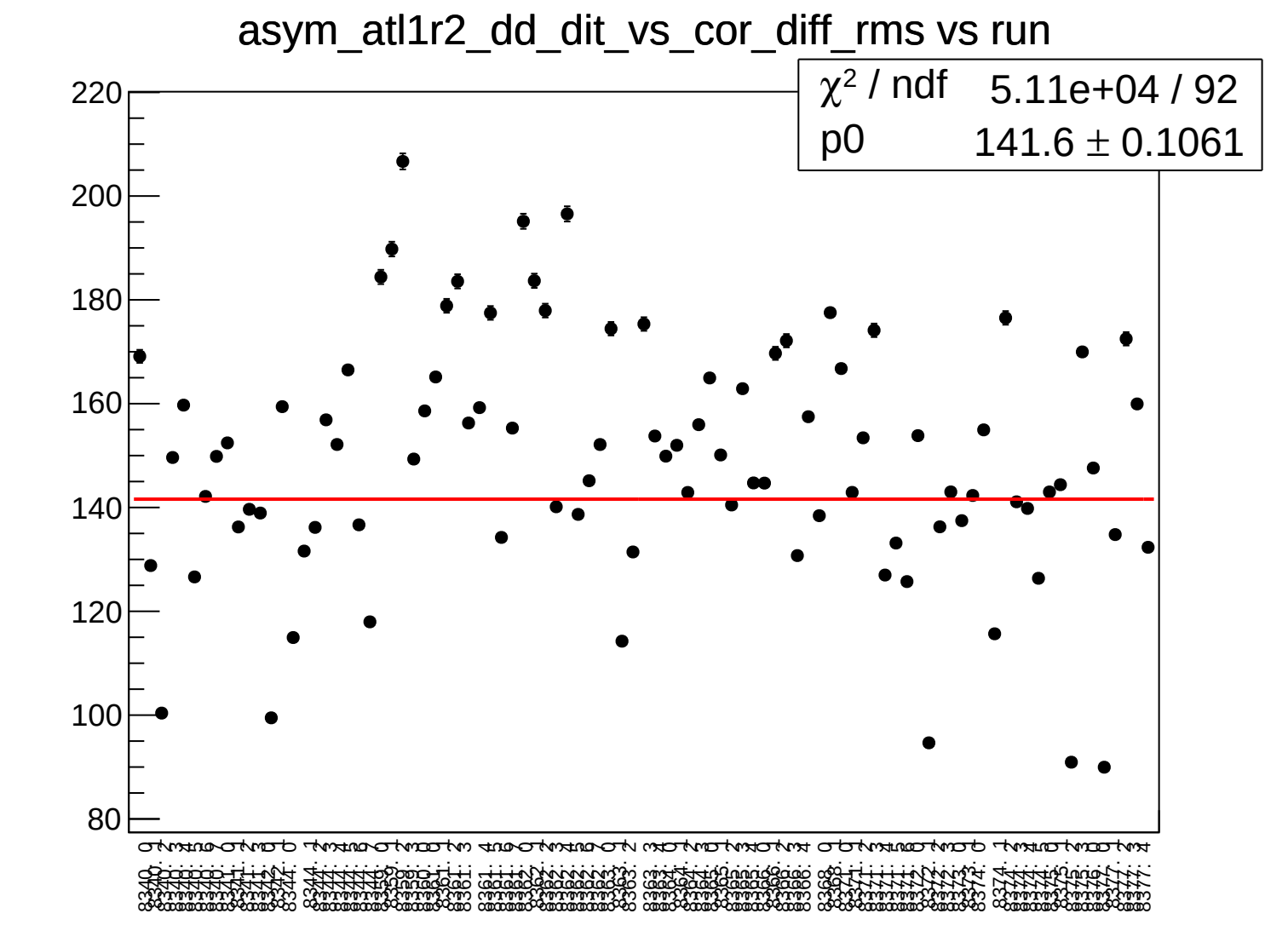

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.68 / 92
p0 1.896e−12 ± 9.055e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 54.62
Std Dev 23.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

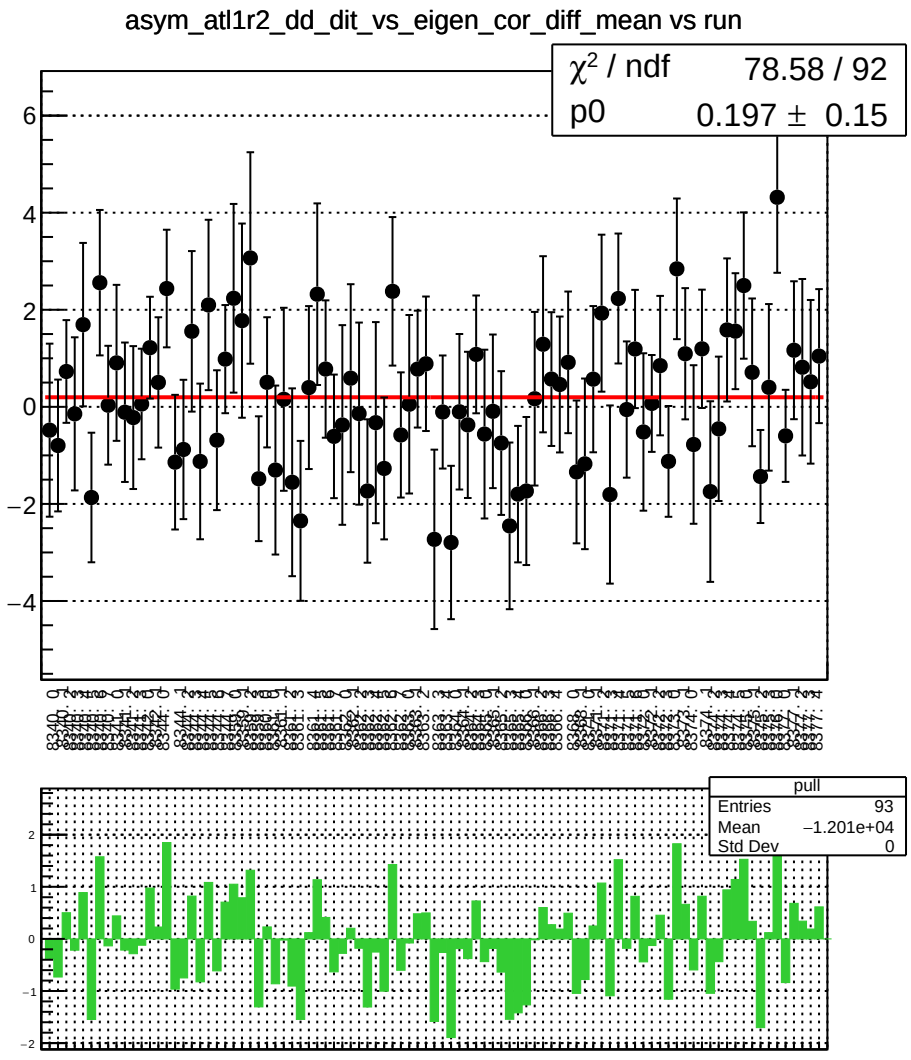

pull1D
Entries 93
Mean −0.2482
Std Dev 0.8917
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

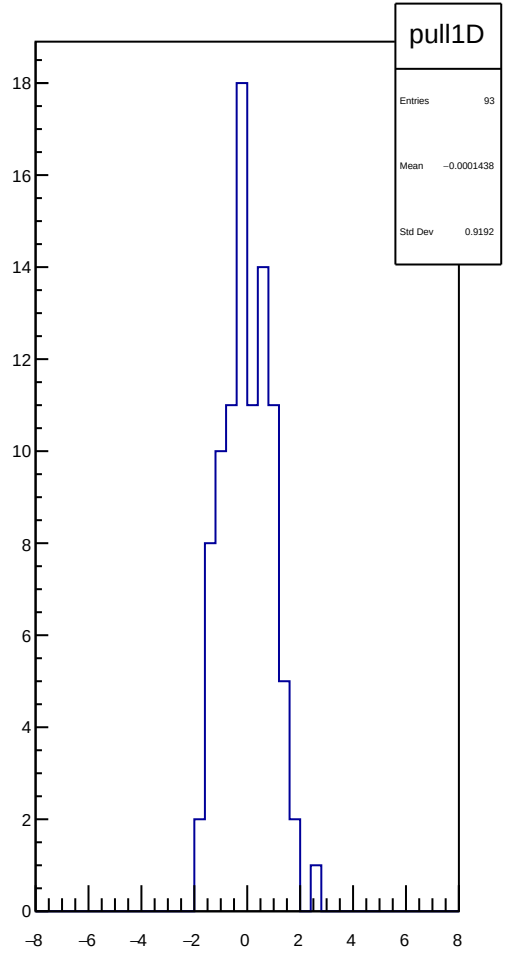

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 92
p0 5.724e−10 ± 6.403e−13
1.2
1
0.8
0.6
0.4
0.2
0

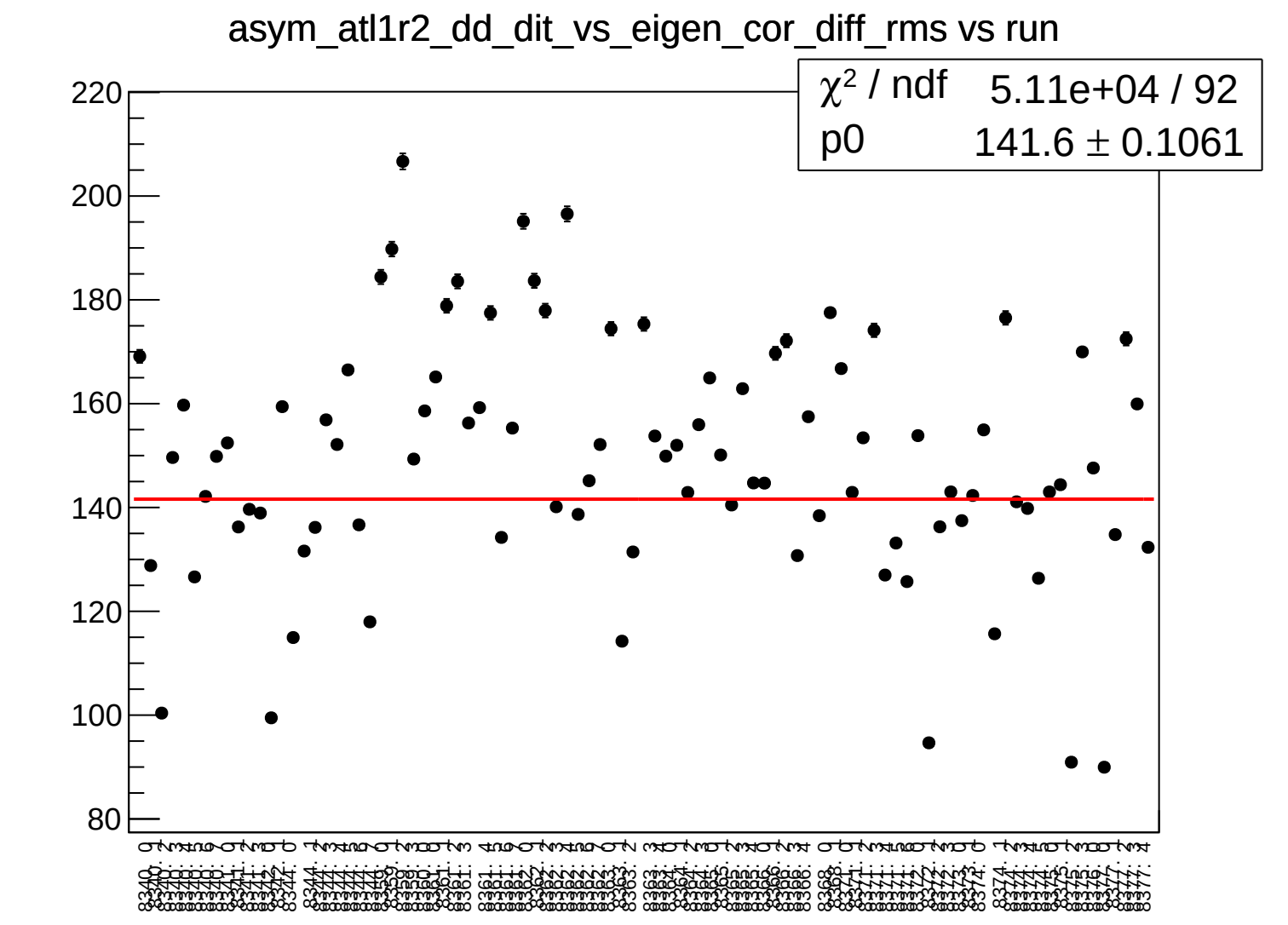

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.58 / 92
p0 0.197 ± 0.15
pull
Entries 93
Mean −1.201e+04
Std Dev 0

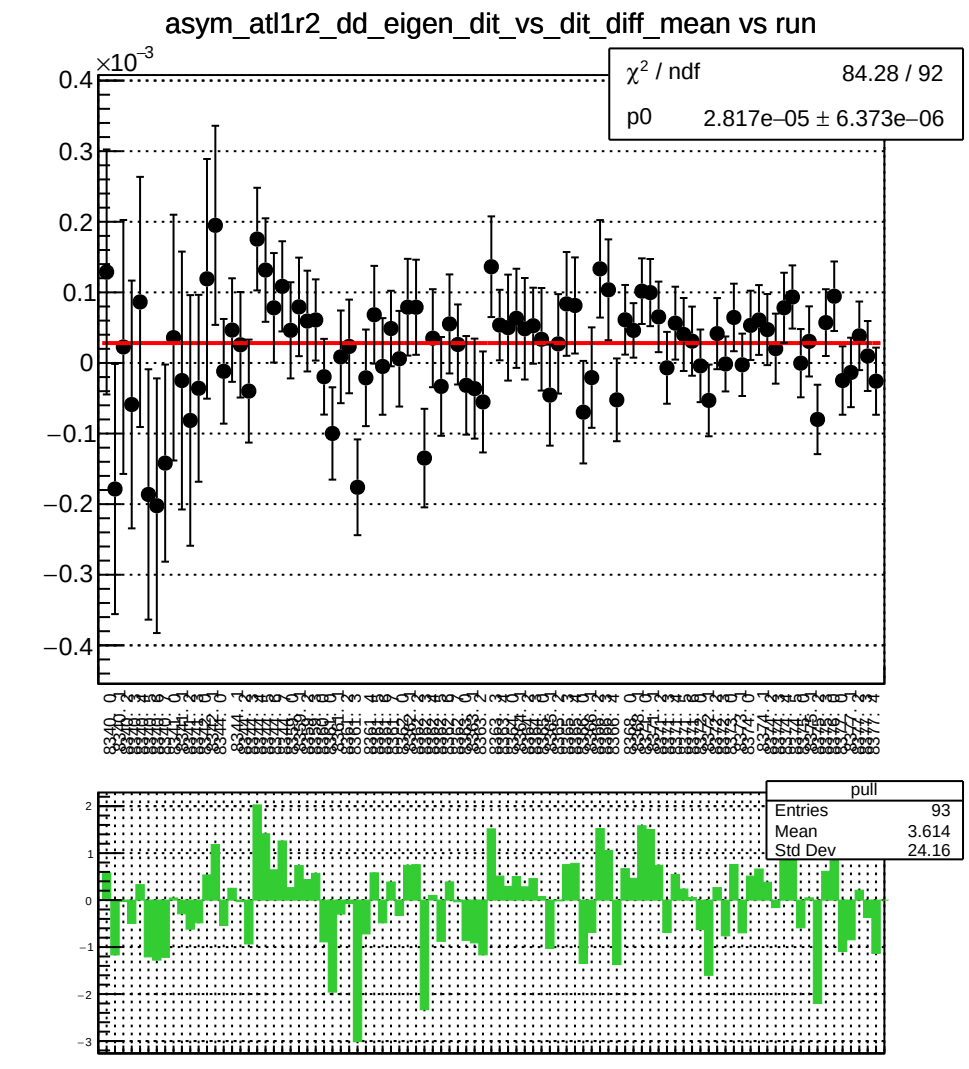

pull1D
Entries 93
Mean −0.0001438
Std Dev 0.9192

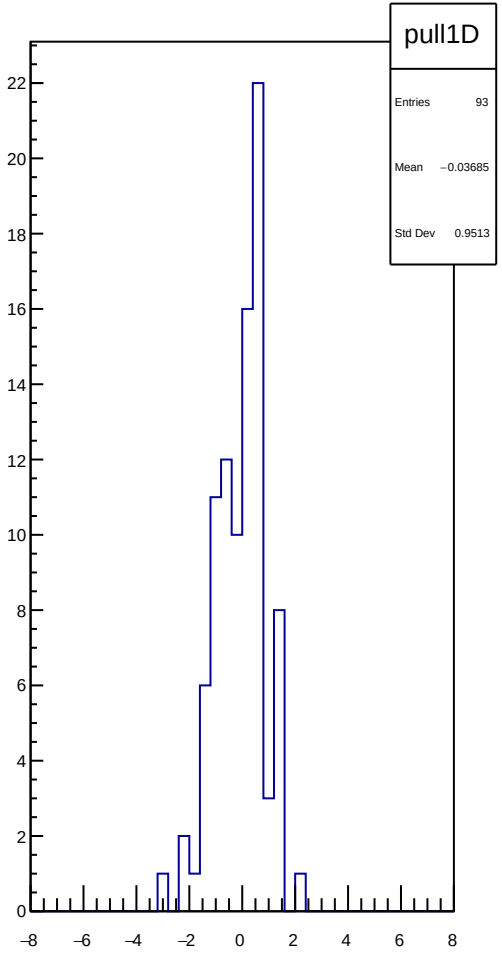

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.11e+04 / 92
p0 141.6 ± 0.1061
220
200
180
160
140
120
100
80

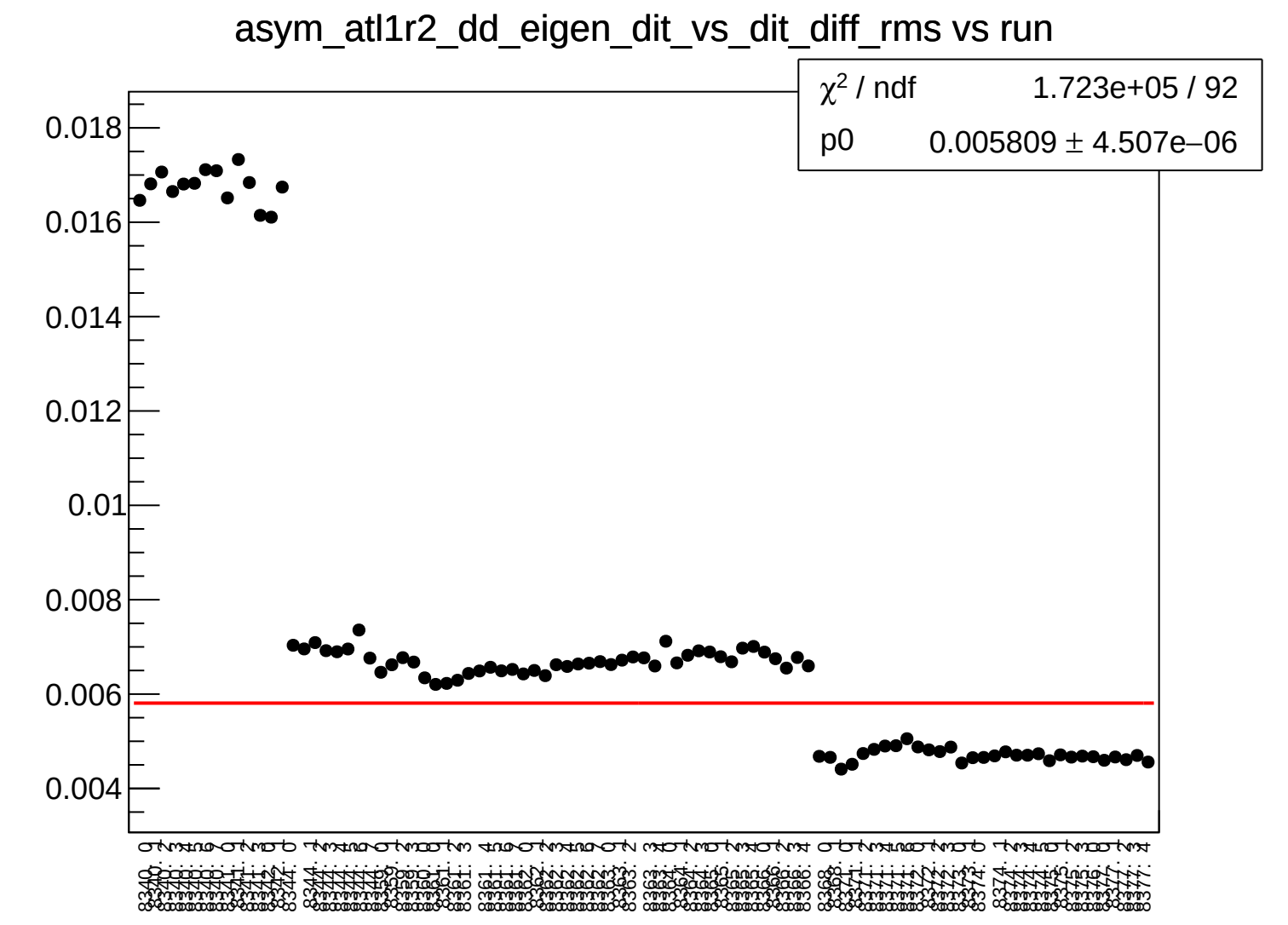

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.58 / 92
p0 0.197 ± 0.15
pull
Entries 93
Mean −1.201e+04
Std Dev 0

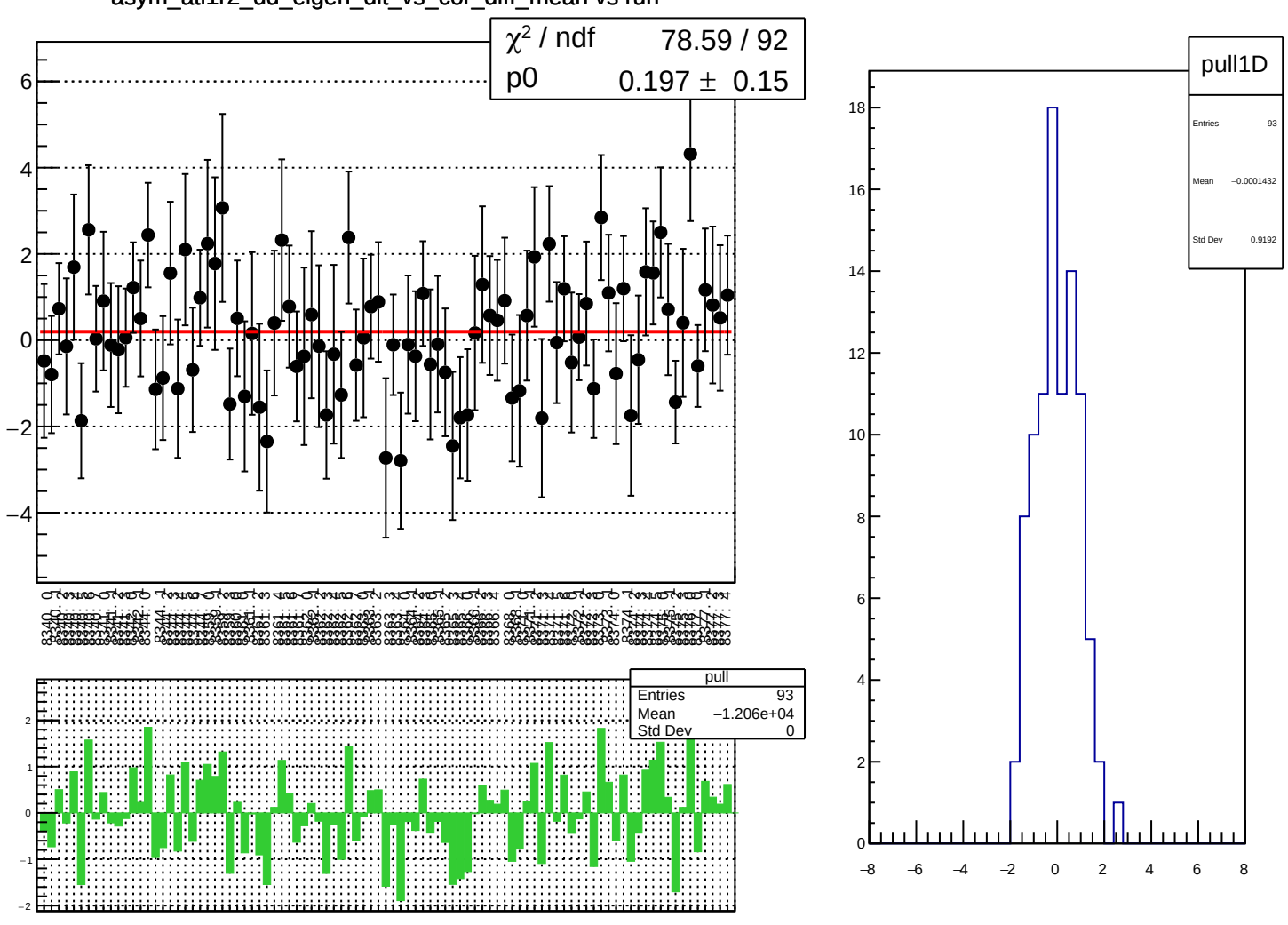

pull1D
Entries 93
Mean −0.0001438
Std Dev 0.9192

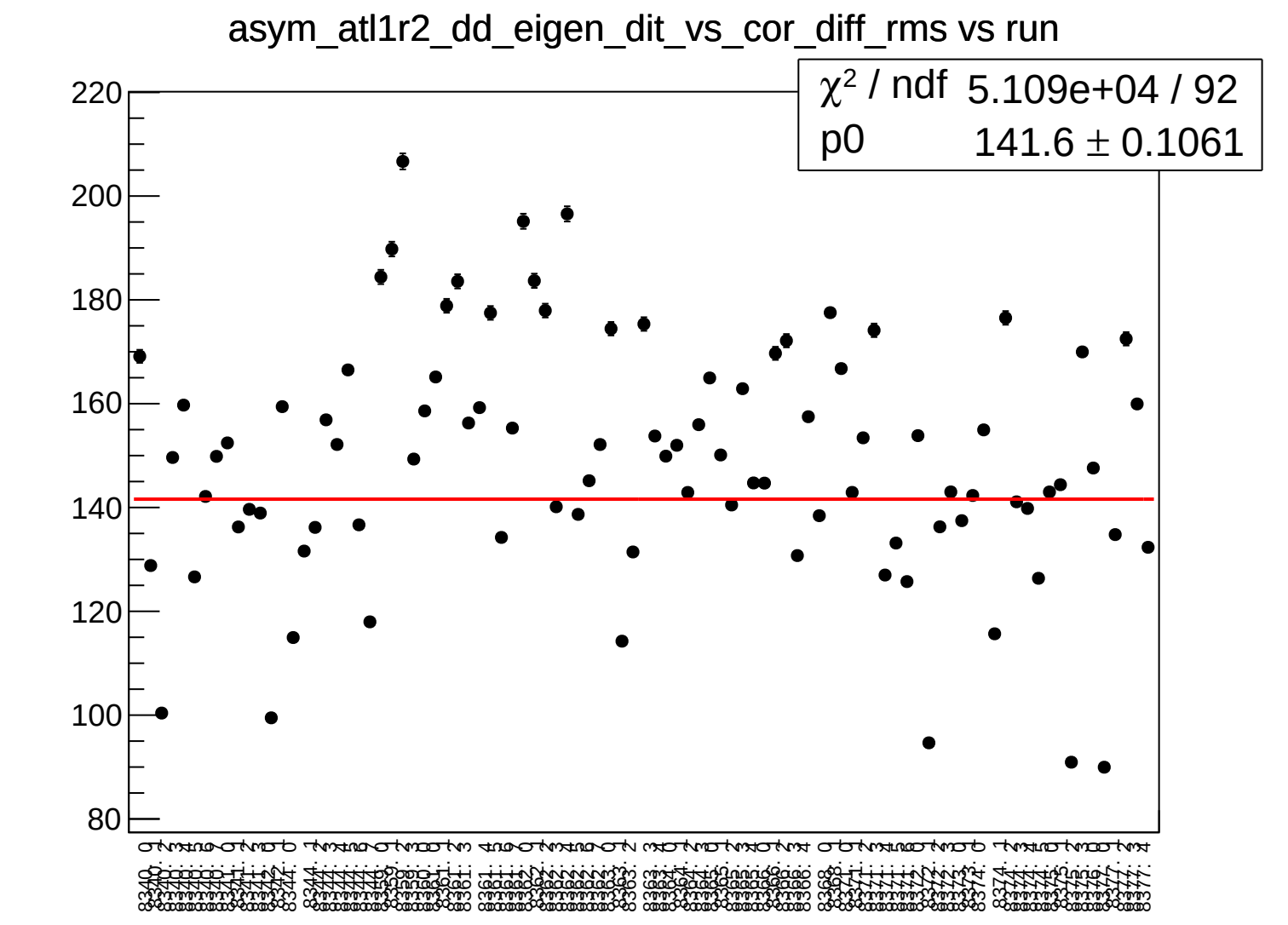

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.11e+04 / 92
p0 141.6 ± 0.1061
220
200
180
160
140
120
100
80

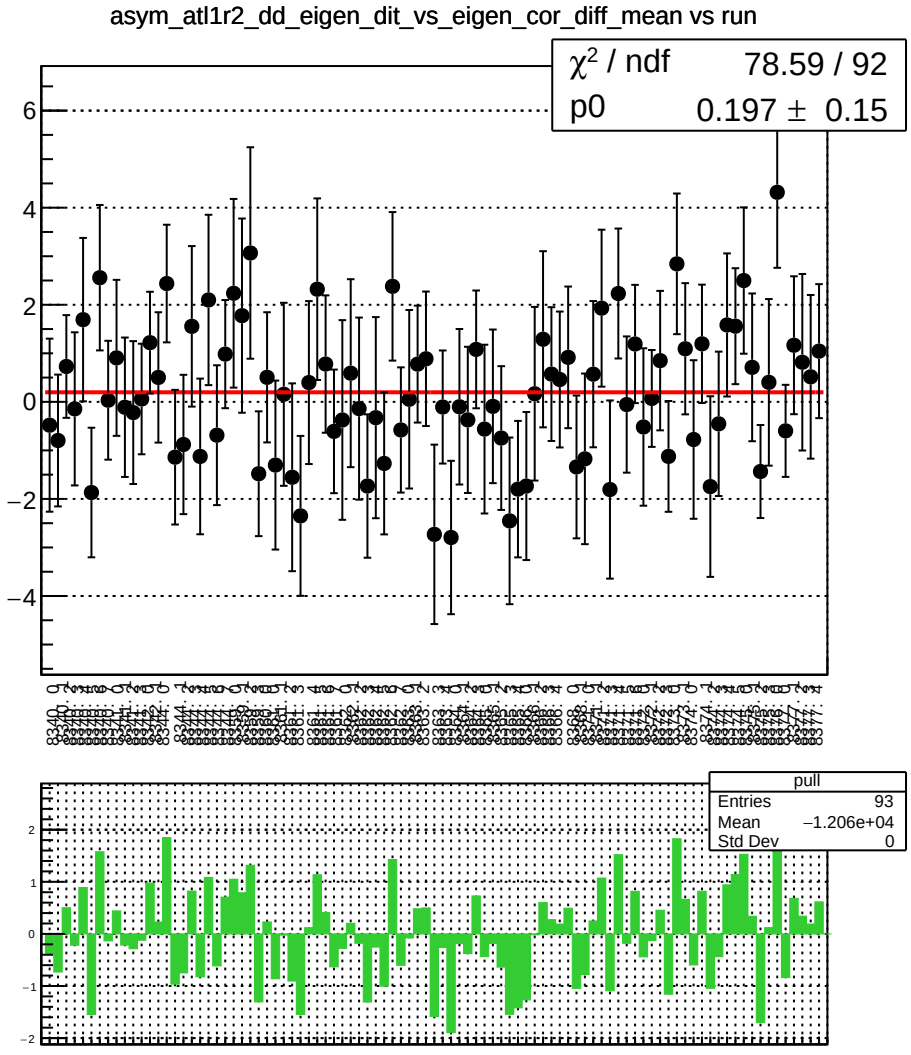

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.28 / 92
p0 2.817e−05 ± 6.373e−06
pull
Entries 93
Mean 3.614
Std Dev 24.16

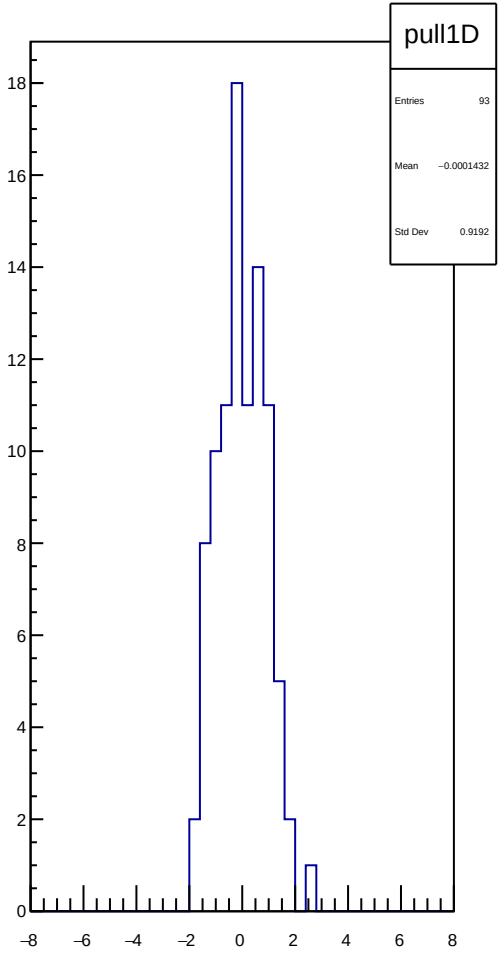

pull1D
Entries 93
Mean −0.03685
Std Dev 0.9513

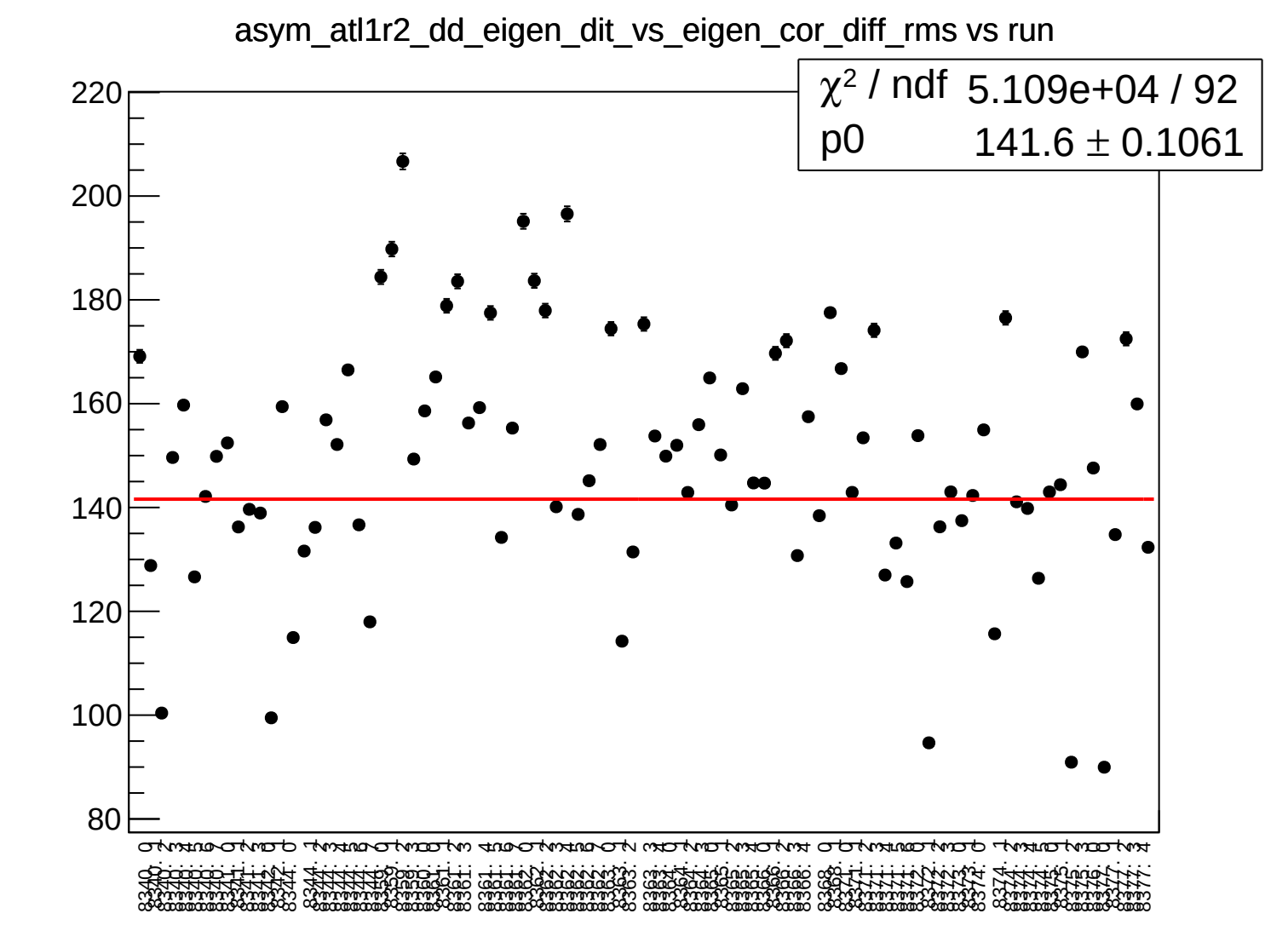

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.723e+05 / 92
p0 0.005809 ± 4.507e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

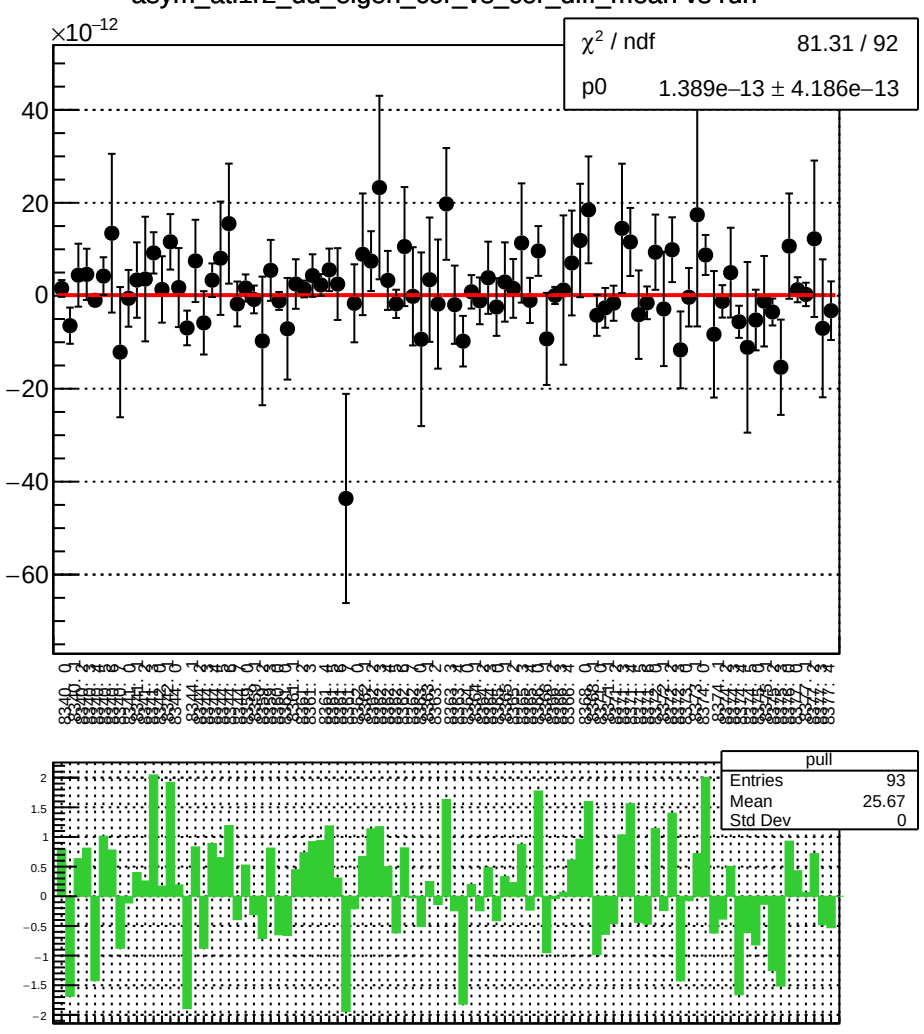

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.59 / 92
p0 0.197 ± 0.15
pull
Entries 93
Mean −1.206e+04
Std Dev 0
pull1D
Entries 93
Mean −0.0001432
Std Dev 0.9192

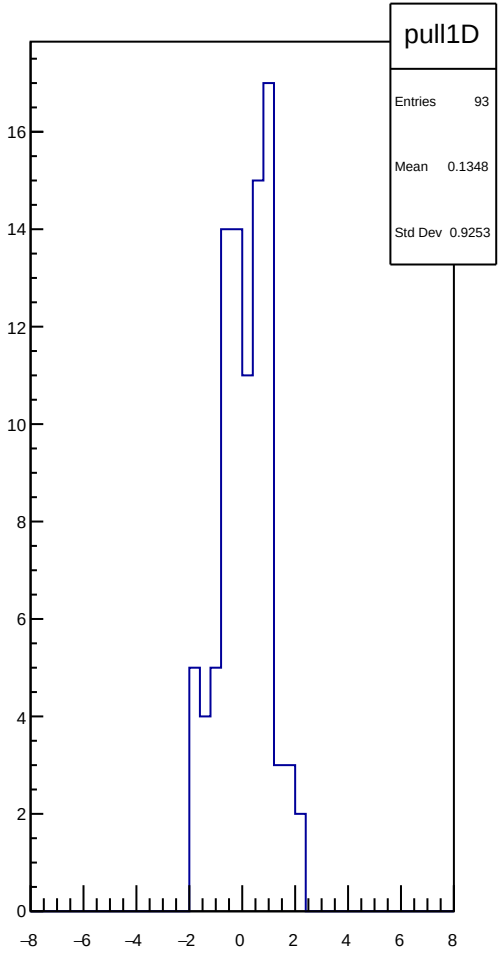

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.109e+04 / 92
p0 141.6 ± 0.1061
220
200
180
160
140
120
100
80

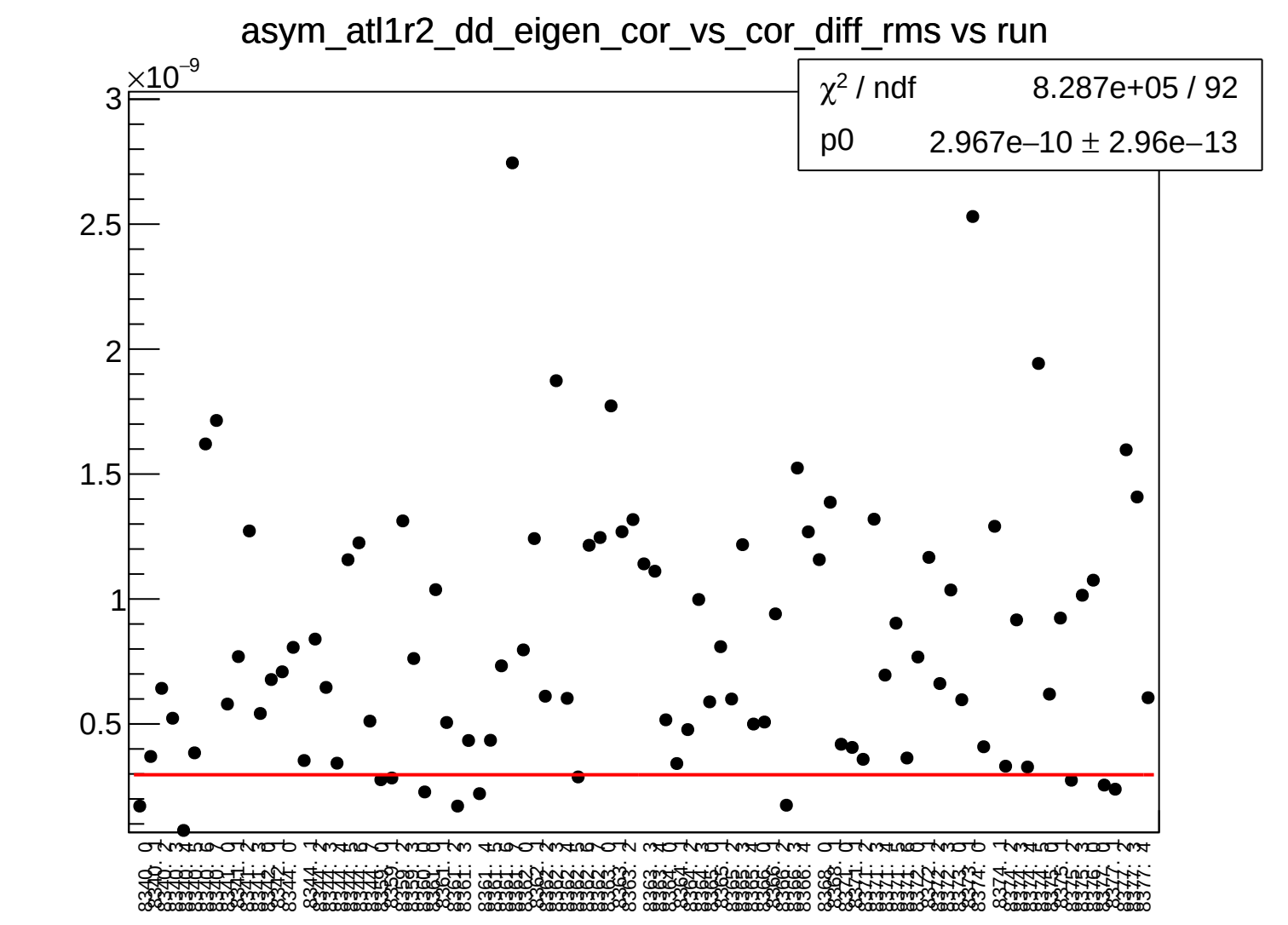

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.59 / 92
p0 0.197 ± 0.15
pull
Entries 93
Mean −1.206e+04
Std Dev 0

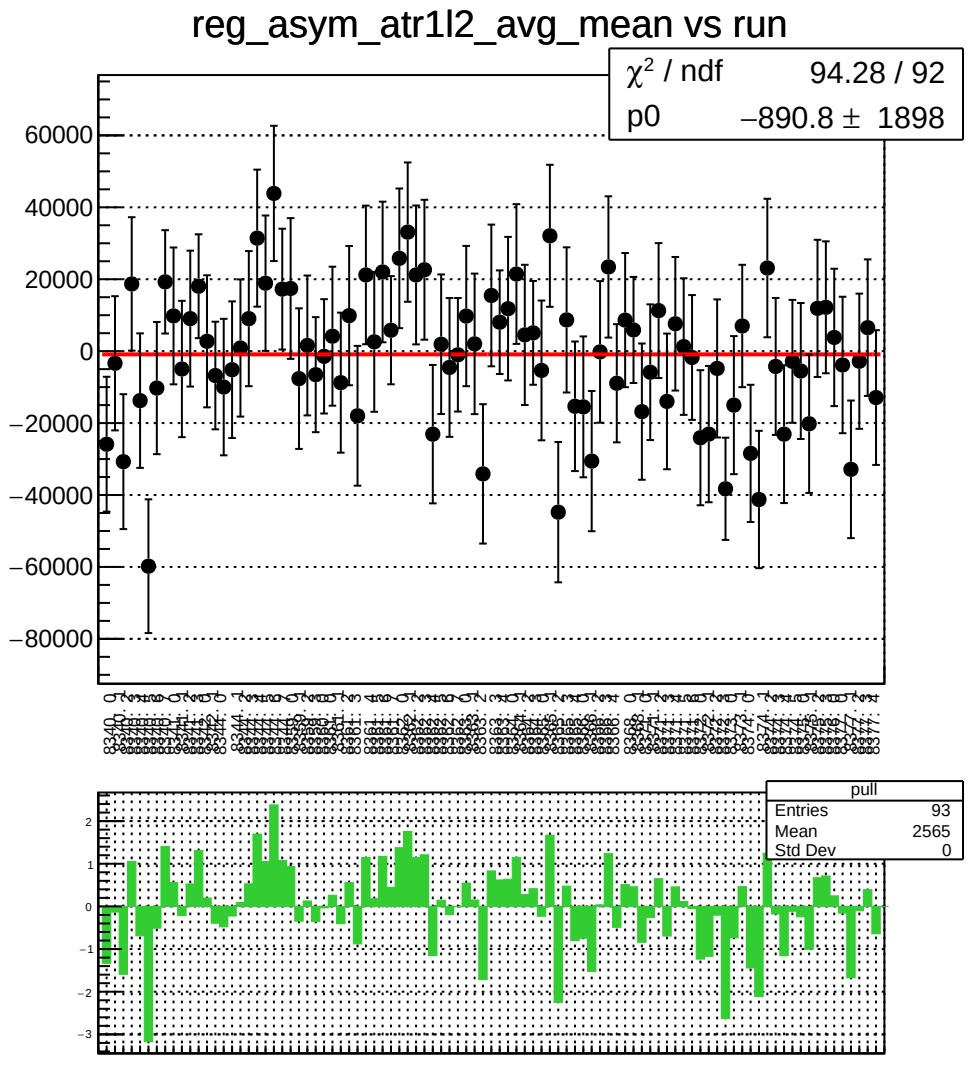

pull1D
Entries 93
Mean −0.0001432
Std Dev 0.9192

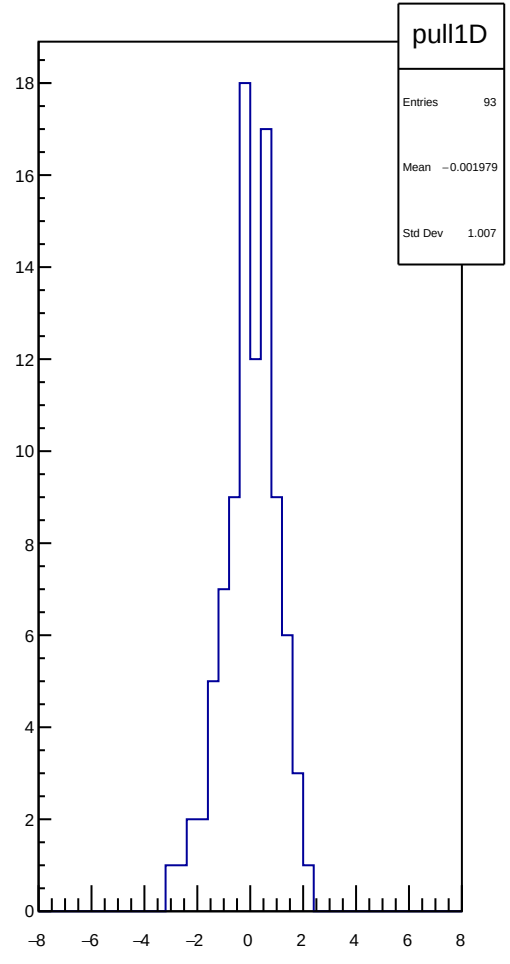

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.109e+04 / 92
p0 141.6 ± 0.1061
220
200
180
160
140
120
100
80

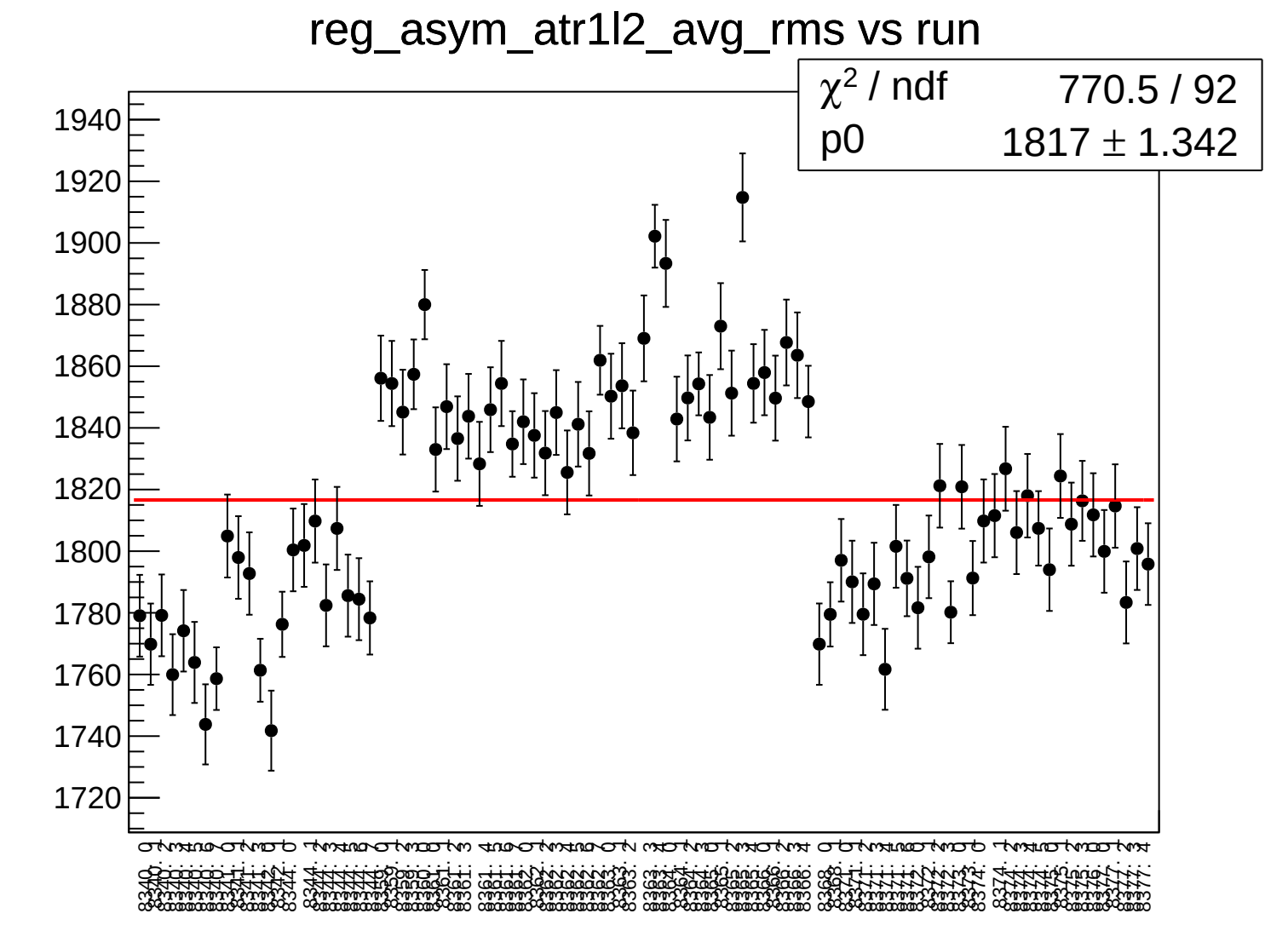

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.31 / 92
p0 1.389e−13 ± 4.186e−13
40
20
0
−20
−40
−60
pull
Entries 93
Mean 25.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

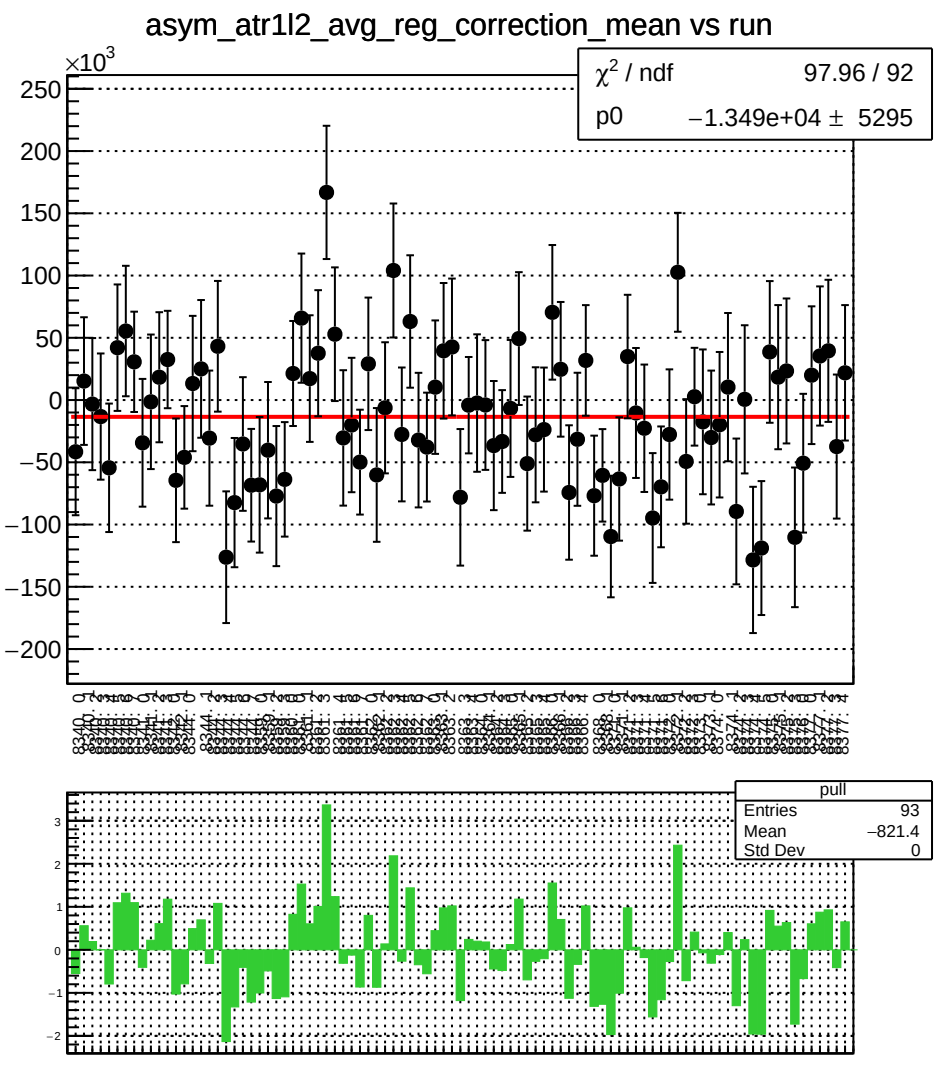

pull1D
Entries 93
Mean 0.1348
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

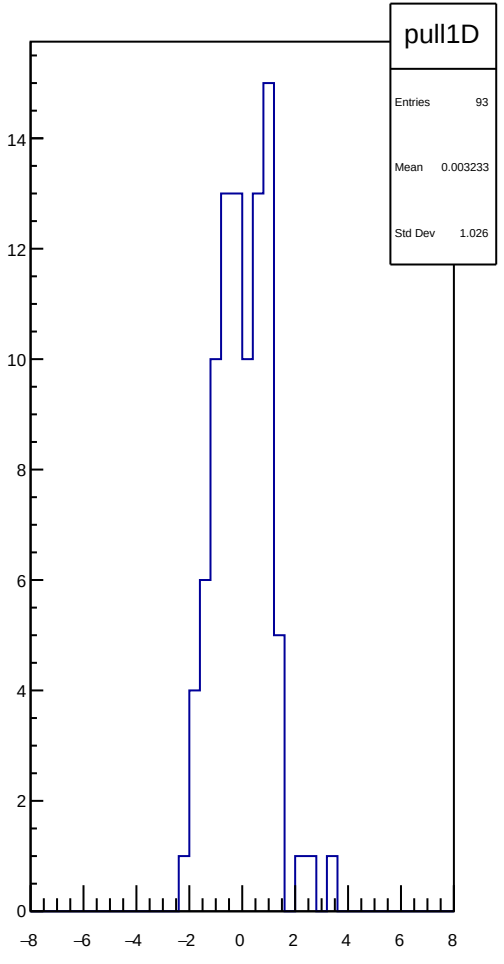

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 8.287e+05 / 92
p0 2.967e−10 ± 2.96e−13

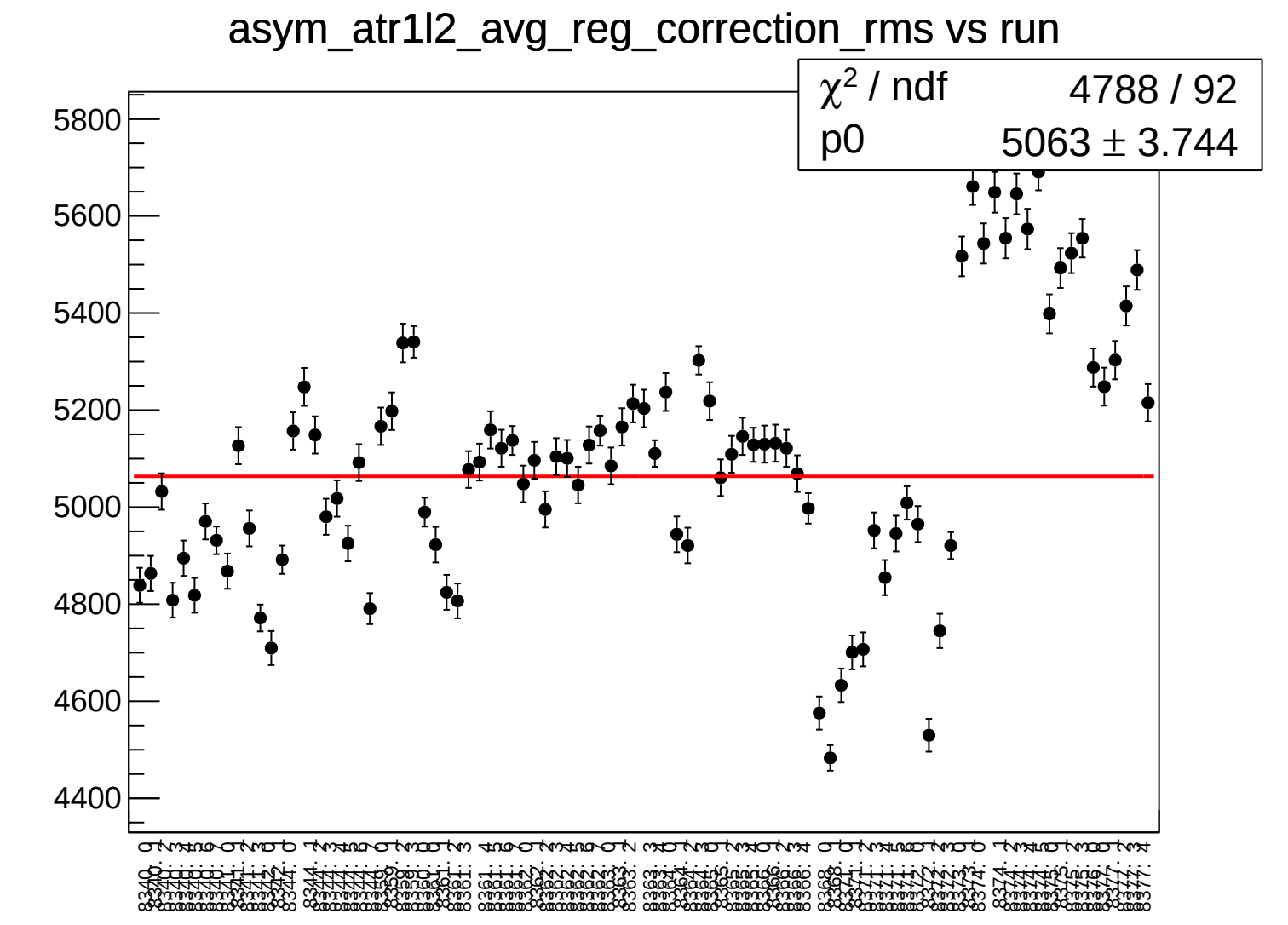

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 94.28 / 92
p0 −890.8 ± 1898
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2565
Std Dev 0
2
1
0
−1
−2
−3

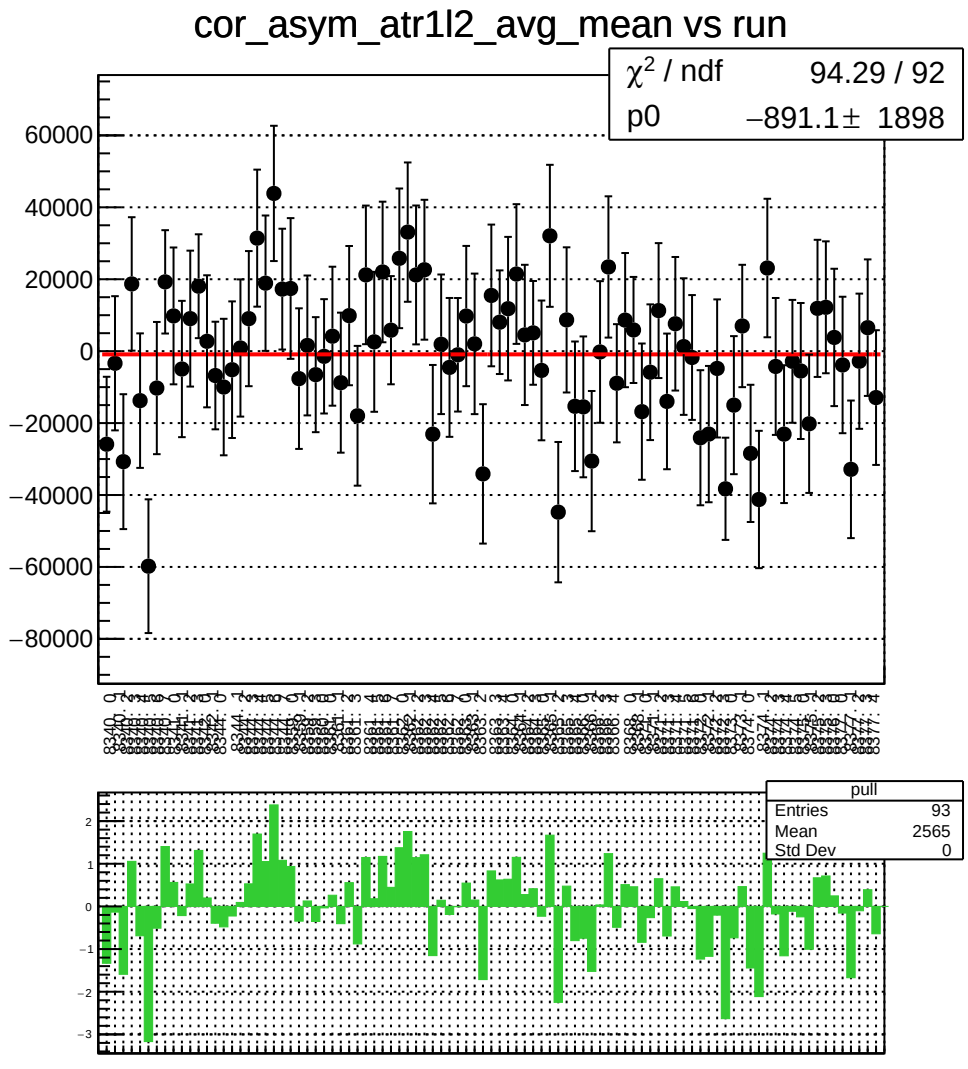

pull1D
Entries 93
Mean −0.001979
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

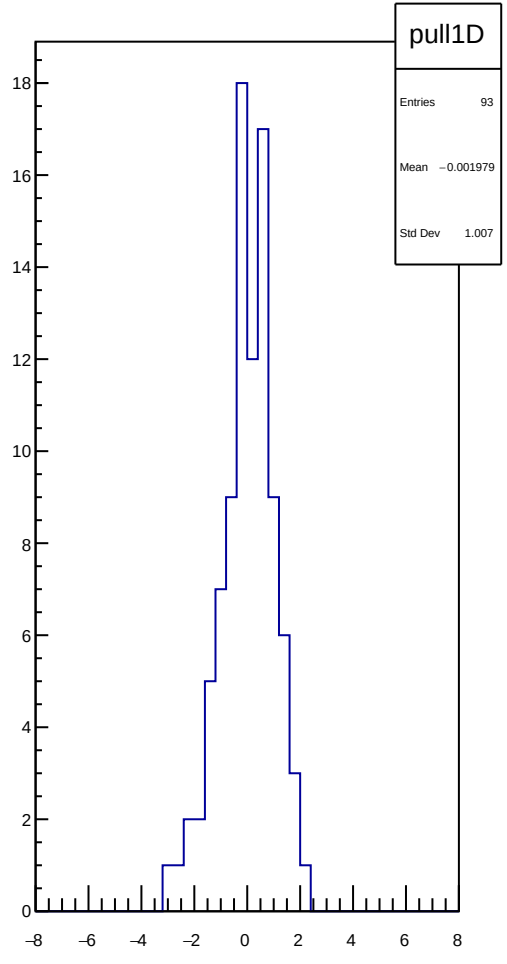

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 770.5 / 92
p0 1817 ± 1.342
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

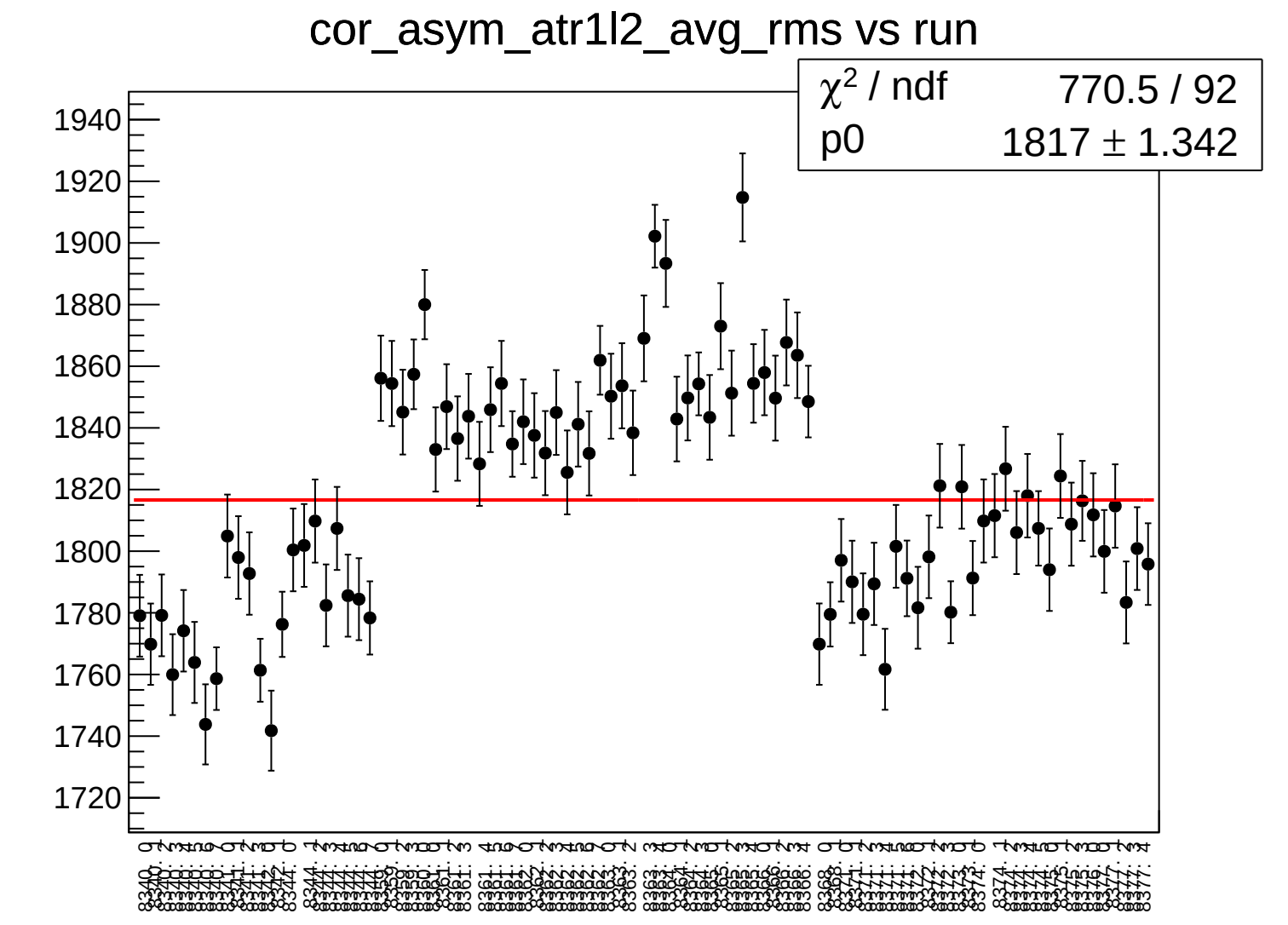

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.96 / 92
p0 −1.349e+04 ± 5295
pull
Entries 93
Mean −821.4
Std Dev 0

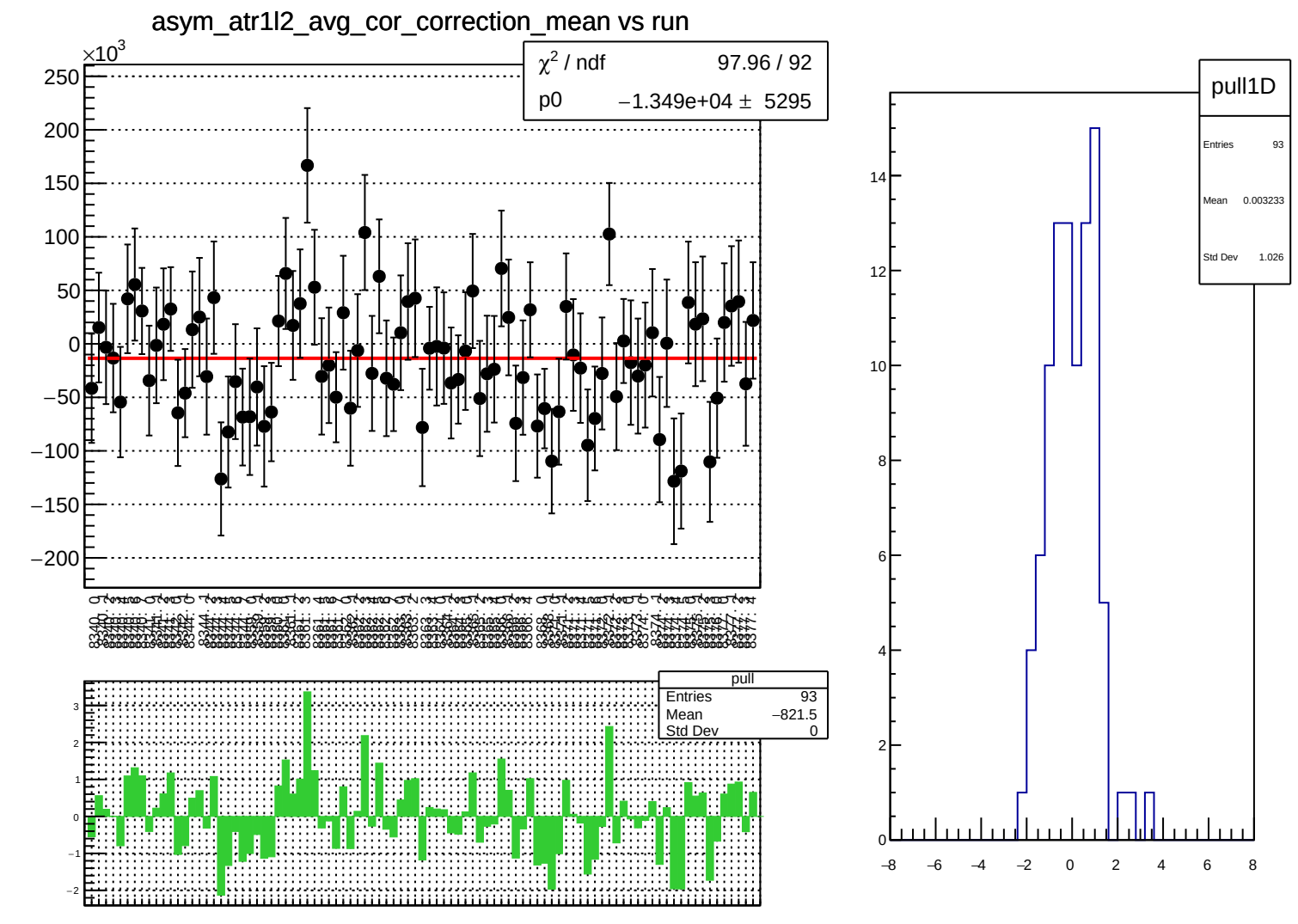

pull1D
Entries 93
Mean 0.003233
Std Dev 1.026

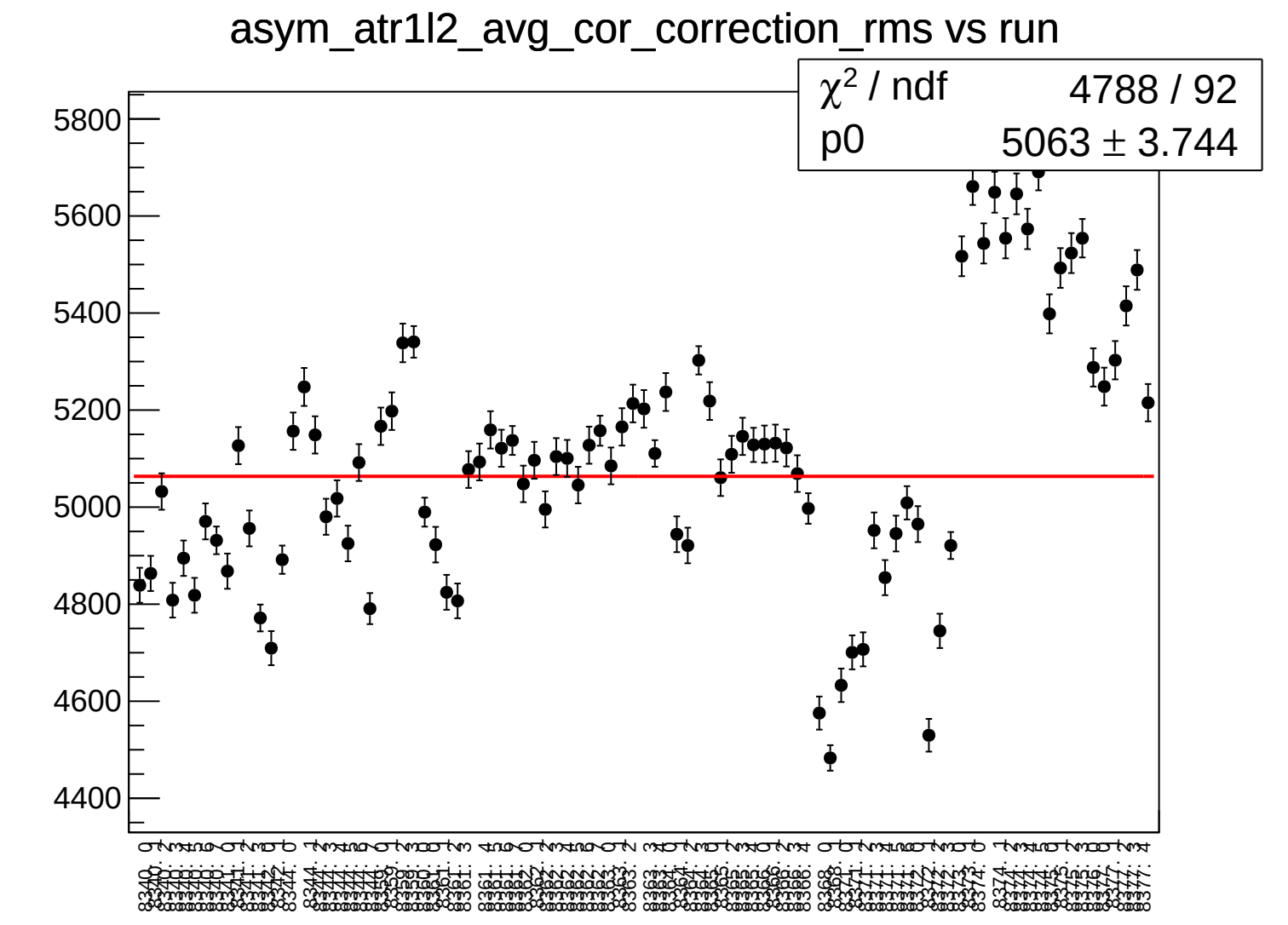

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4788 / 92
p0 5063 ± 3.744
5800
5600
5400
5200
5000
4800
4600
4400

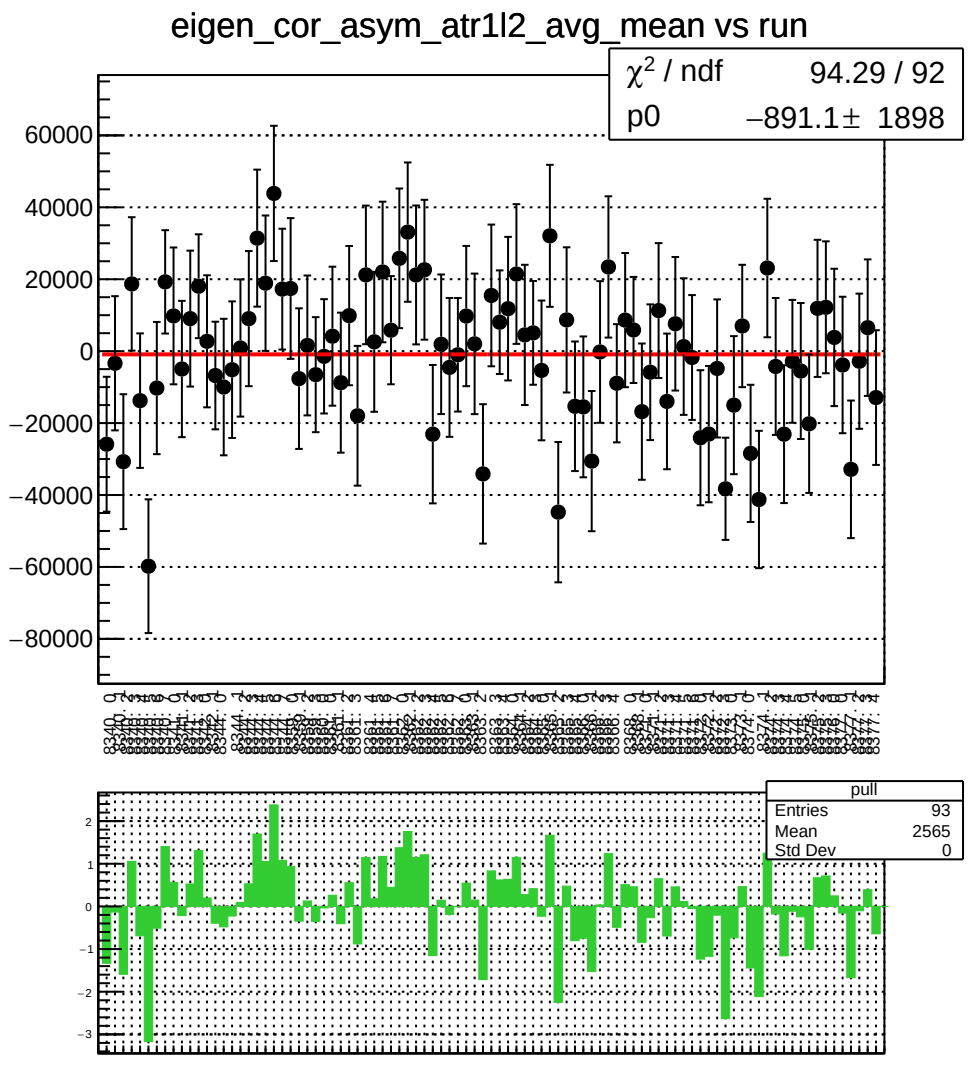

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.29 / 92
p0 −891.1± 1898
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2565
Std Dev 0
2
1
0
−1
−2
−3

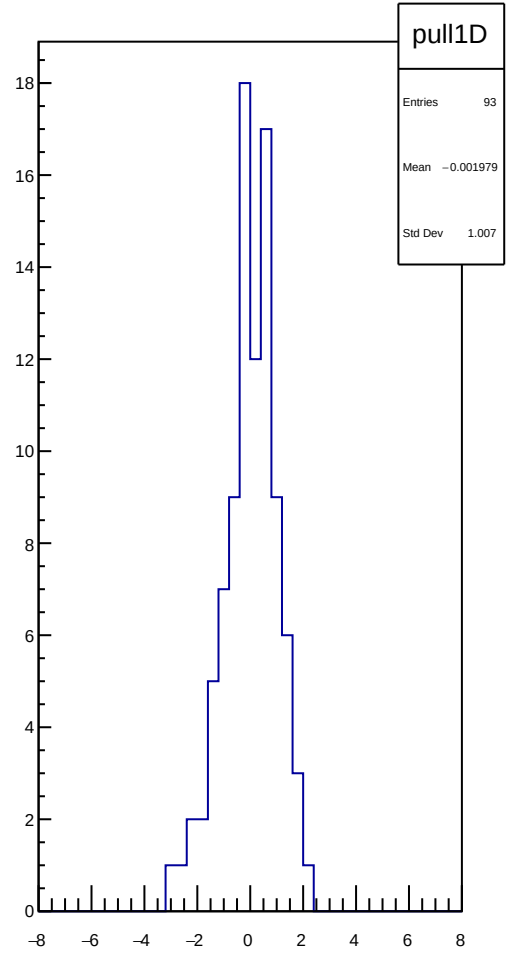

pull1D
Entries 93
Mean −0.001979
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atr1l2_avg_rms vs run
χ² / ndf 770.5 / 92
p0 1817 ± 1.342
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.96 / 92
p0 −1.349e+04 ± 5295
pull
Entries 93
Mean −821.5
Std Dev 0
pull1D
Entries 93
Mean 0.003233
Std Dev 1.026


asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4788 / 92
p0 5063 ± 3.744
5800
5600
5400
5200
5000
4800
4600
4400


eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.29 / 92
p0 −891.1± 1898
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2565
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.001979
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
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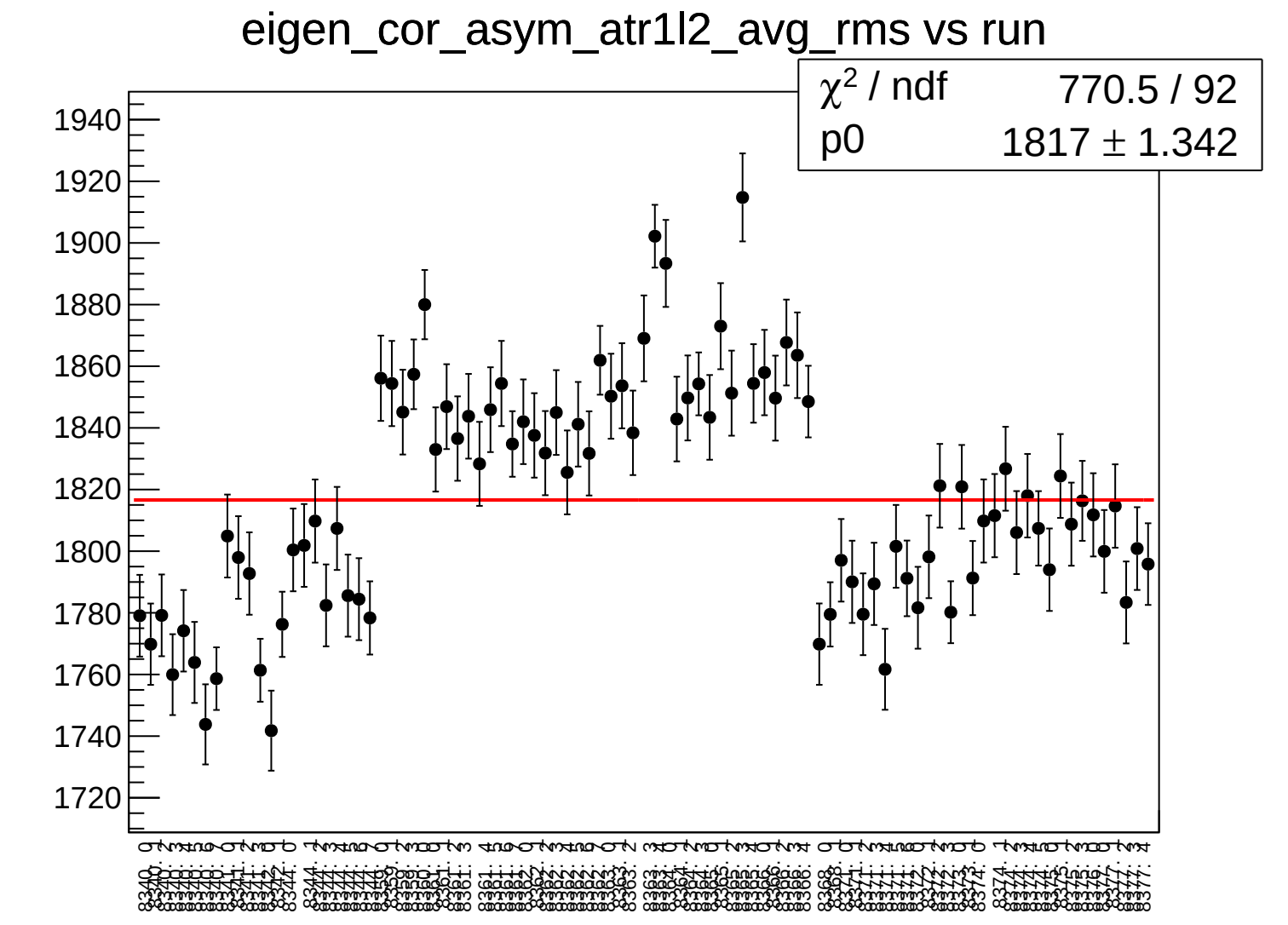
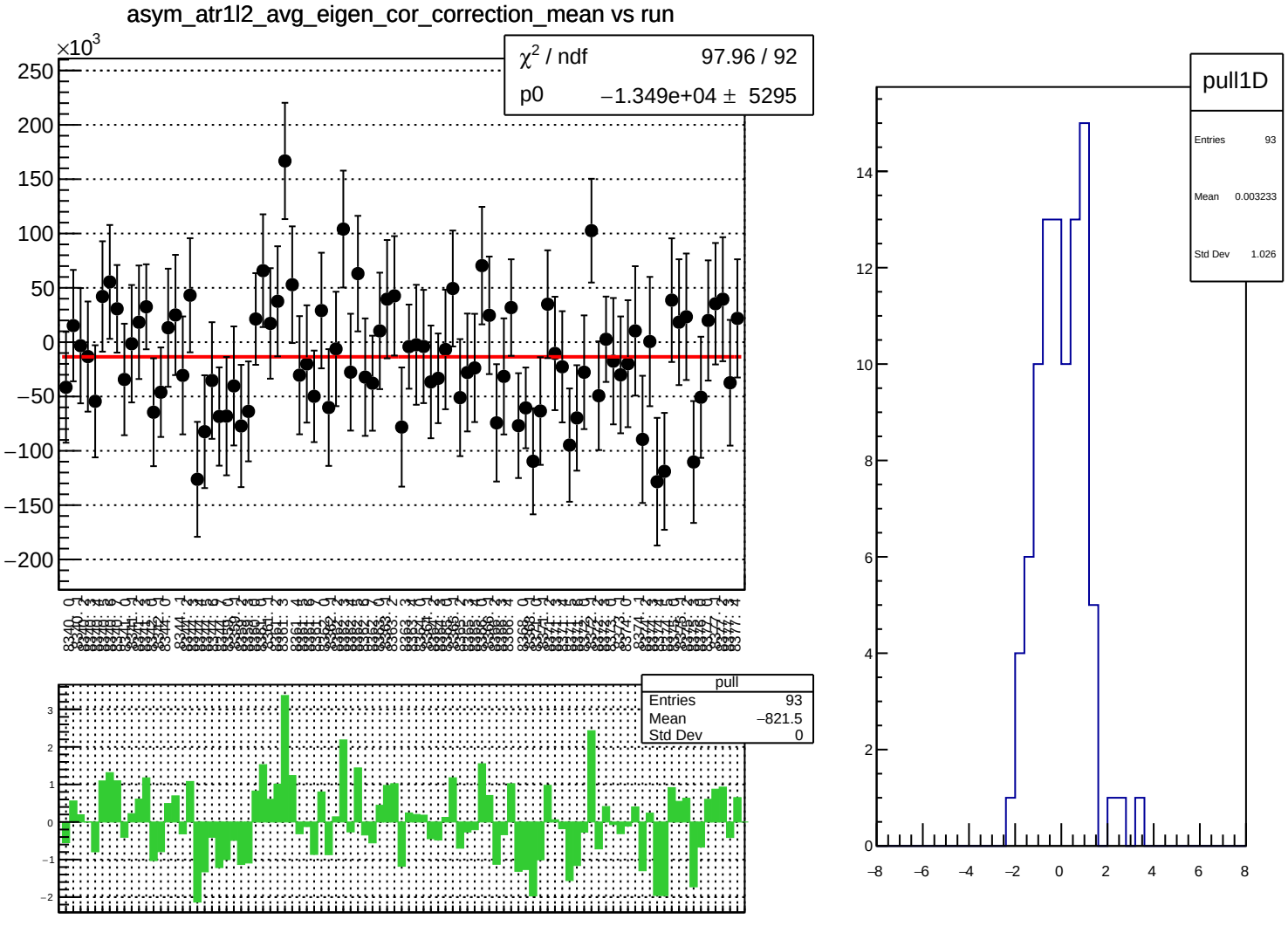
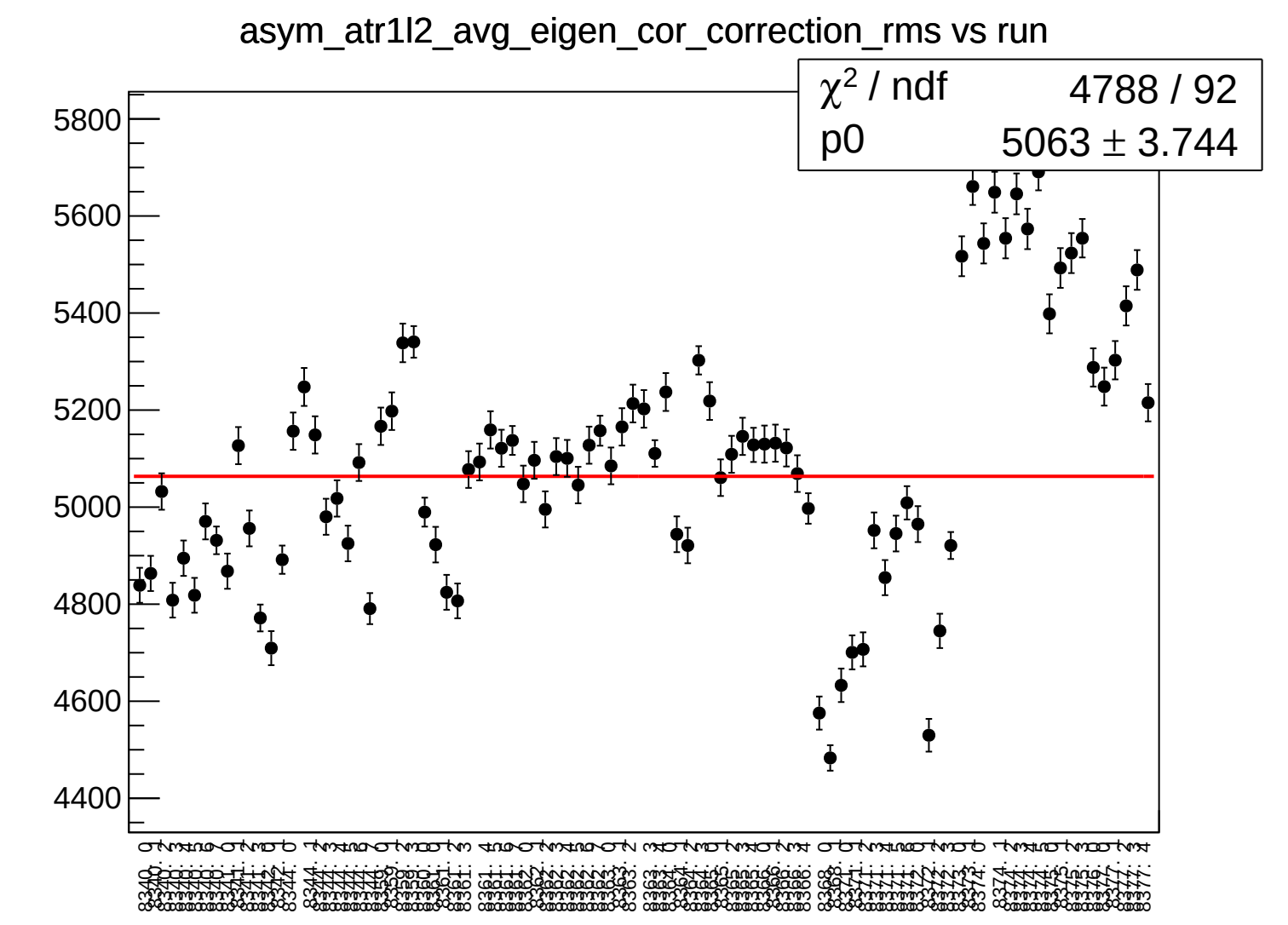
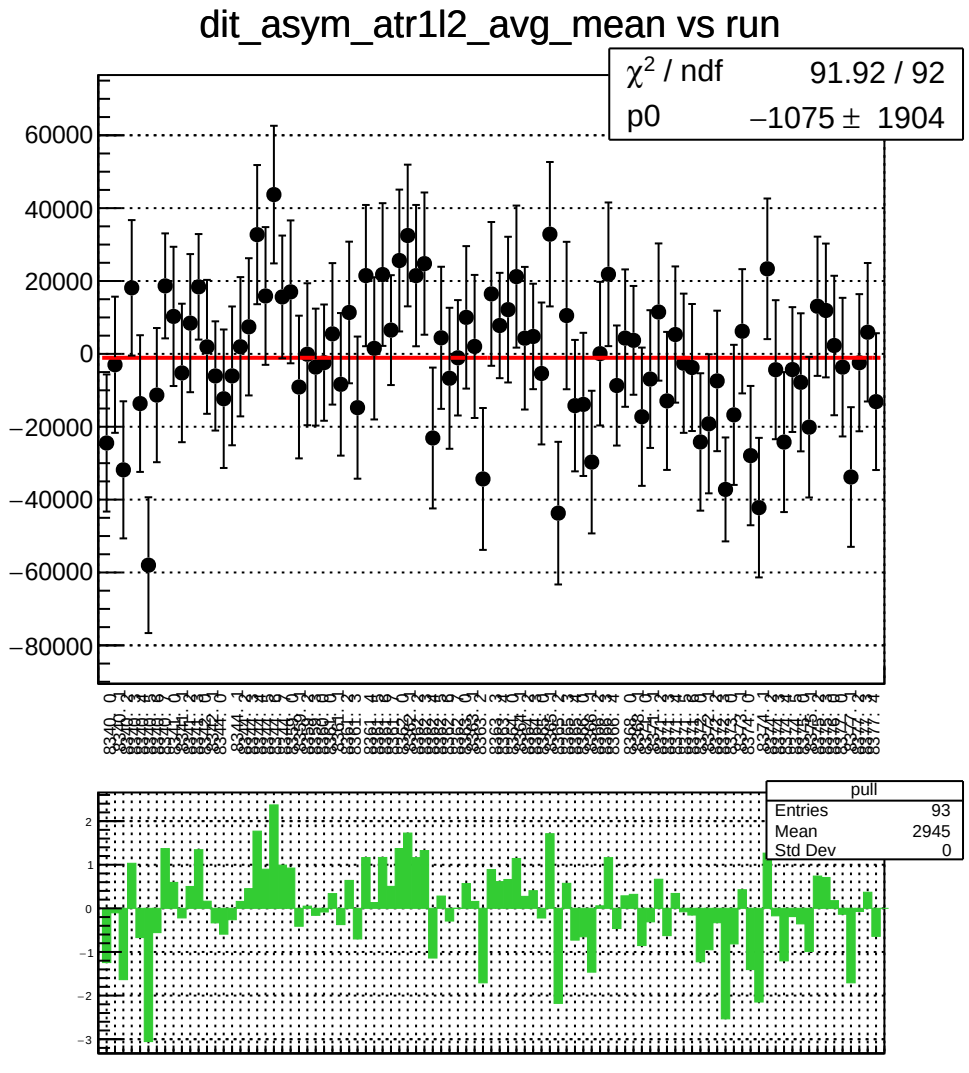
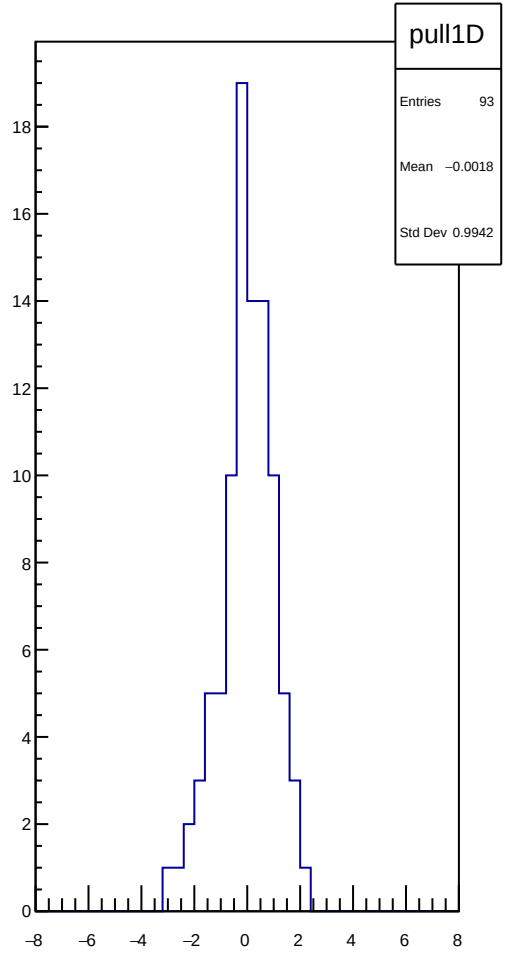
0
2
4
6
8

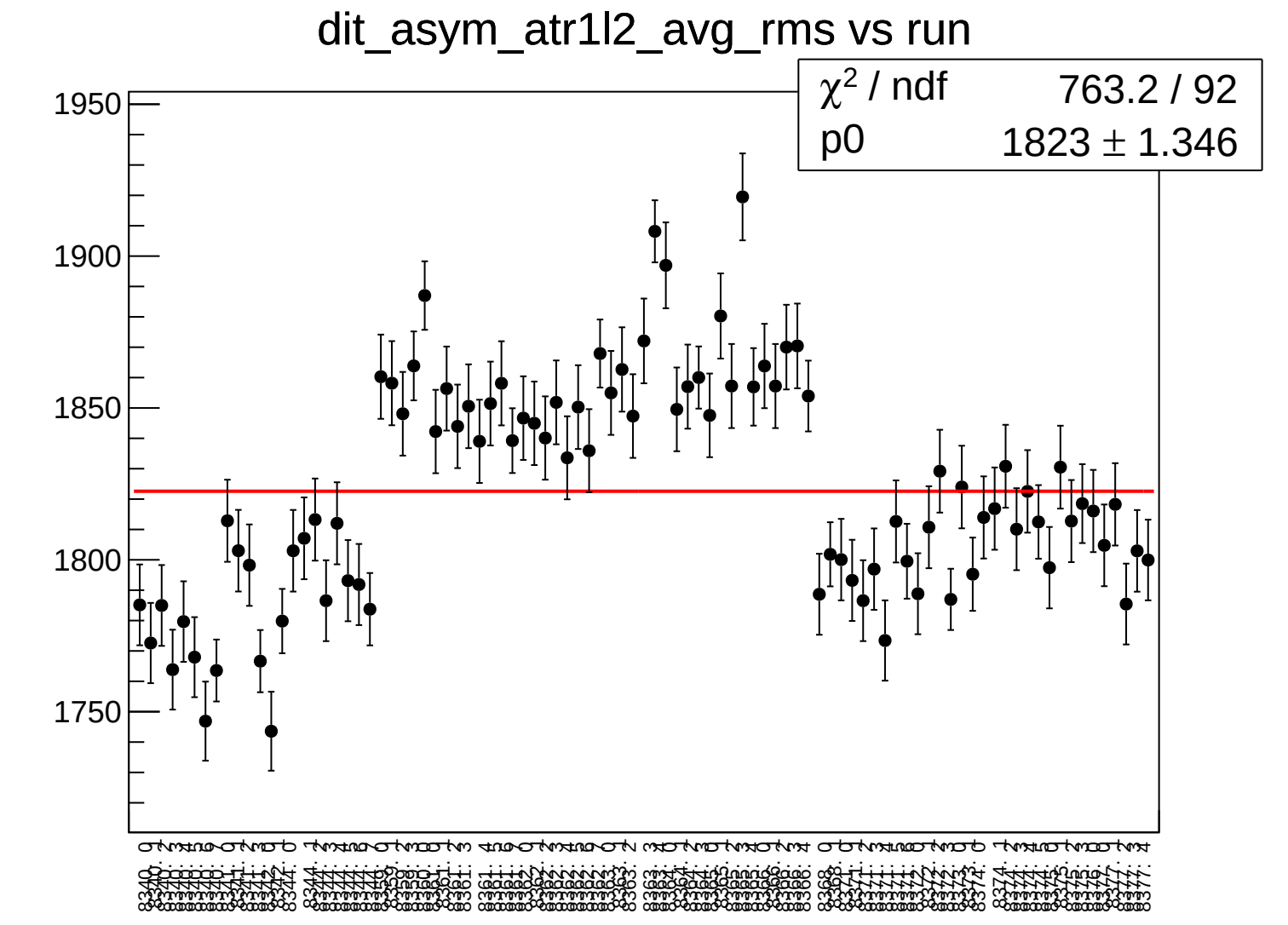

eigen_cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 770.5 / 92
p0 1817 ± 1.342
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

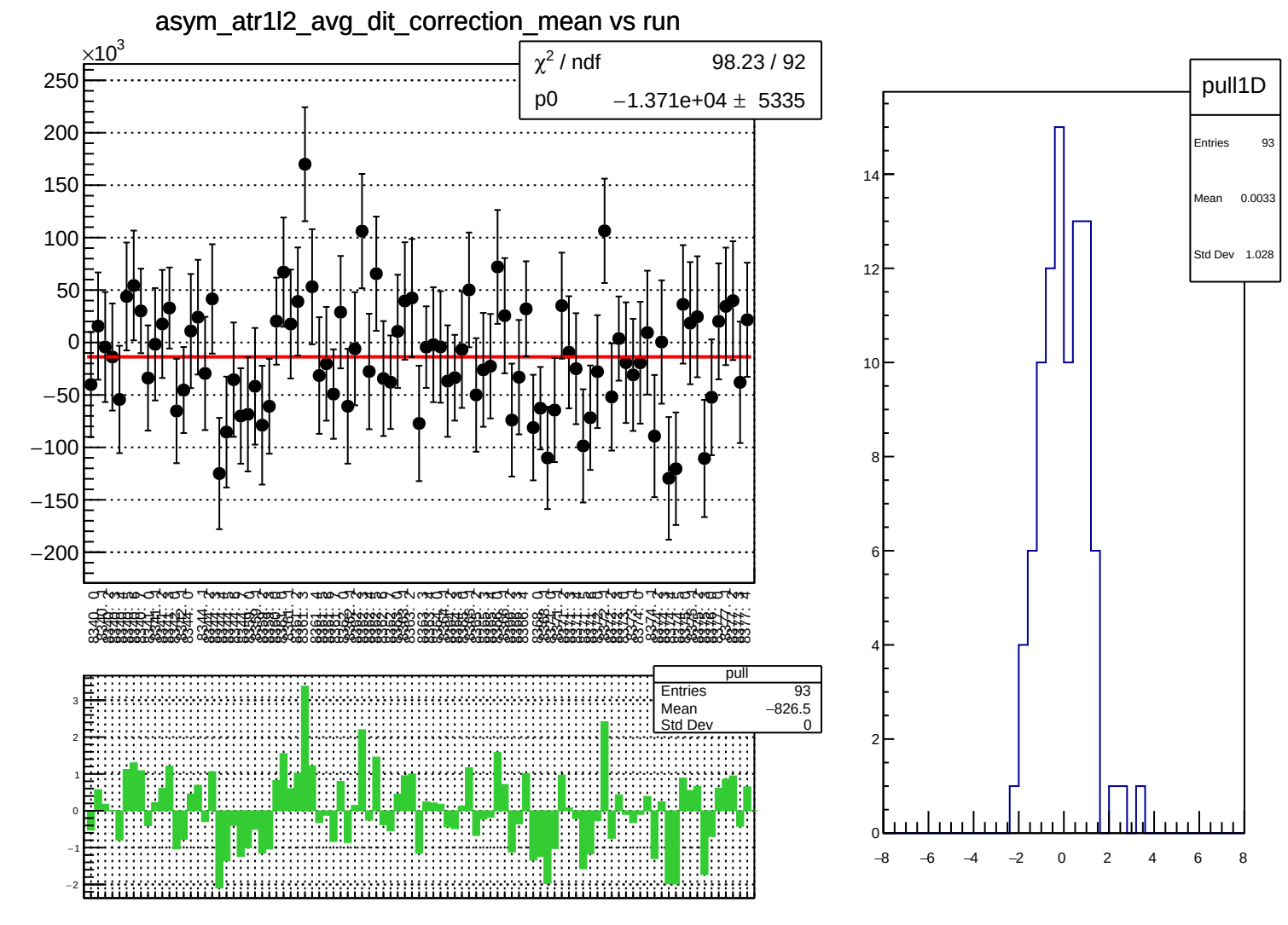

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.96 / 92
p0 −1.349e+04 ± 5295
pull
Entries 93
Mean −821.5
Std Dev 0
pull1D
Entries 93
Mean 0.003233
Std Dev 1.026

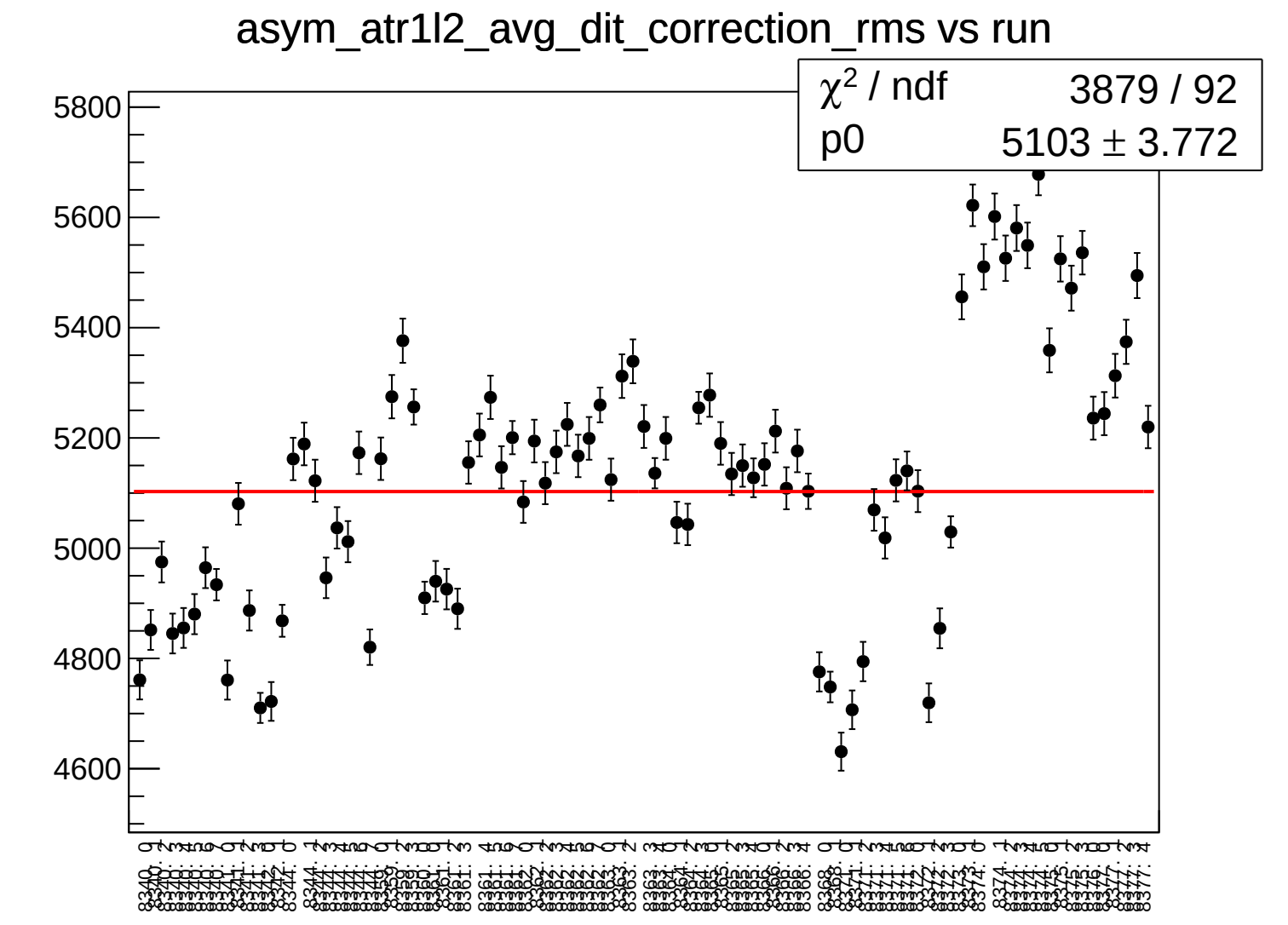

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4788 / 92
p0 5063 ± 3.744
5800
5600
5400
5200
5000
4800
4600
4400

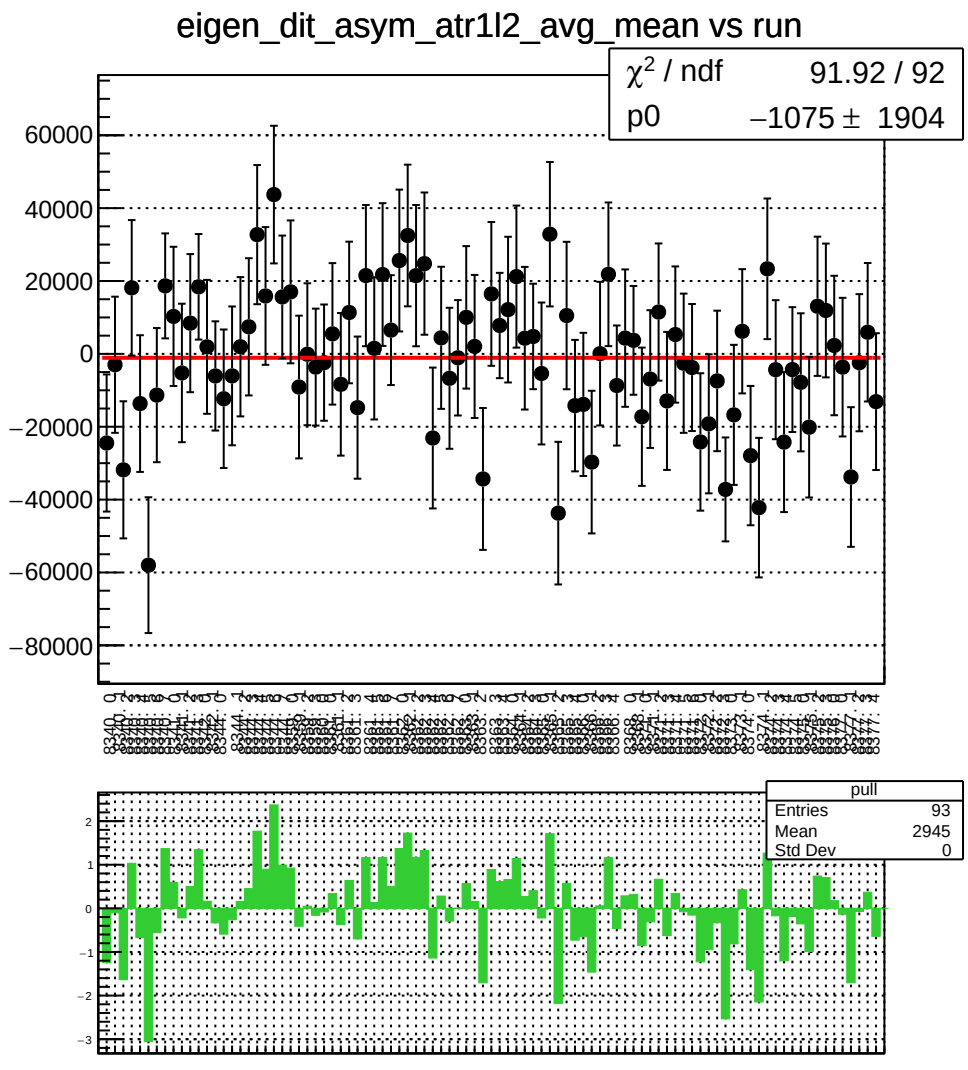

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 91.92 / 92
p0 −1075 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2945
Std Dev 0
2
1
0
−1
−2
−3

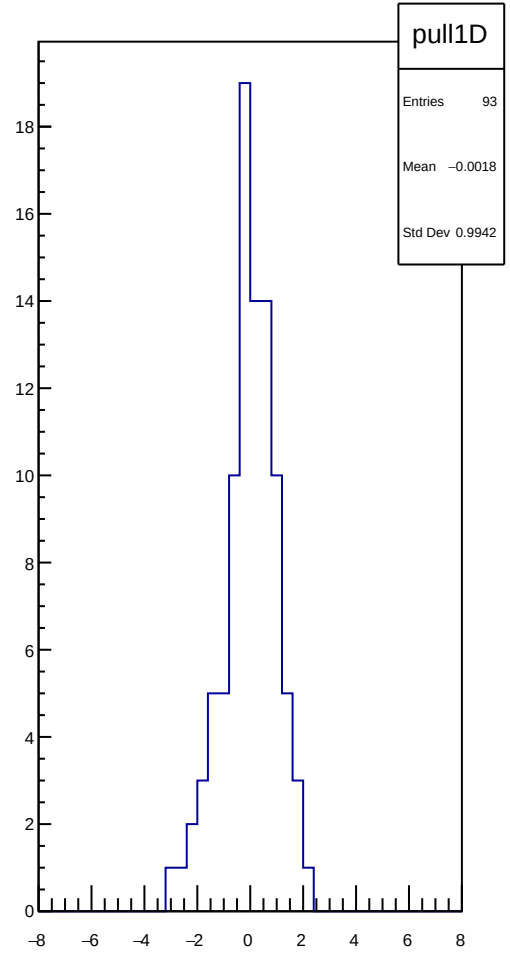

pull1D
Entries 93
Mean −0.0018
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

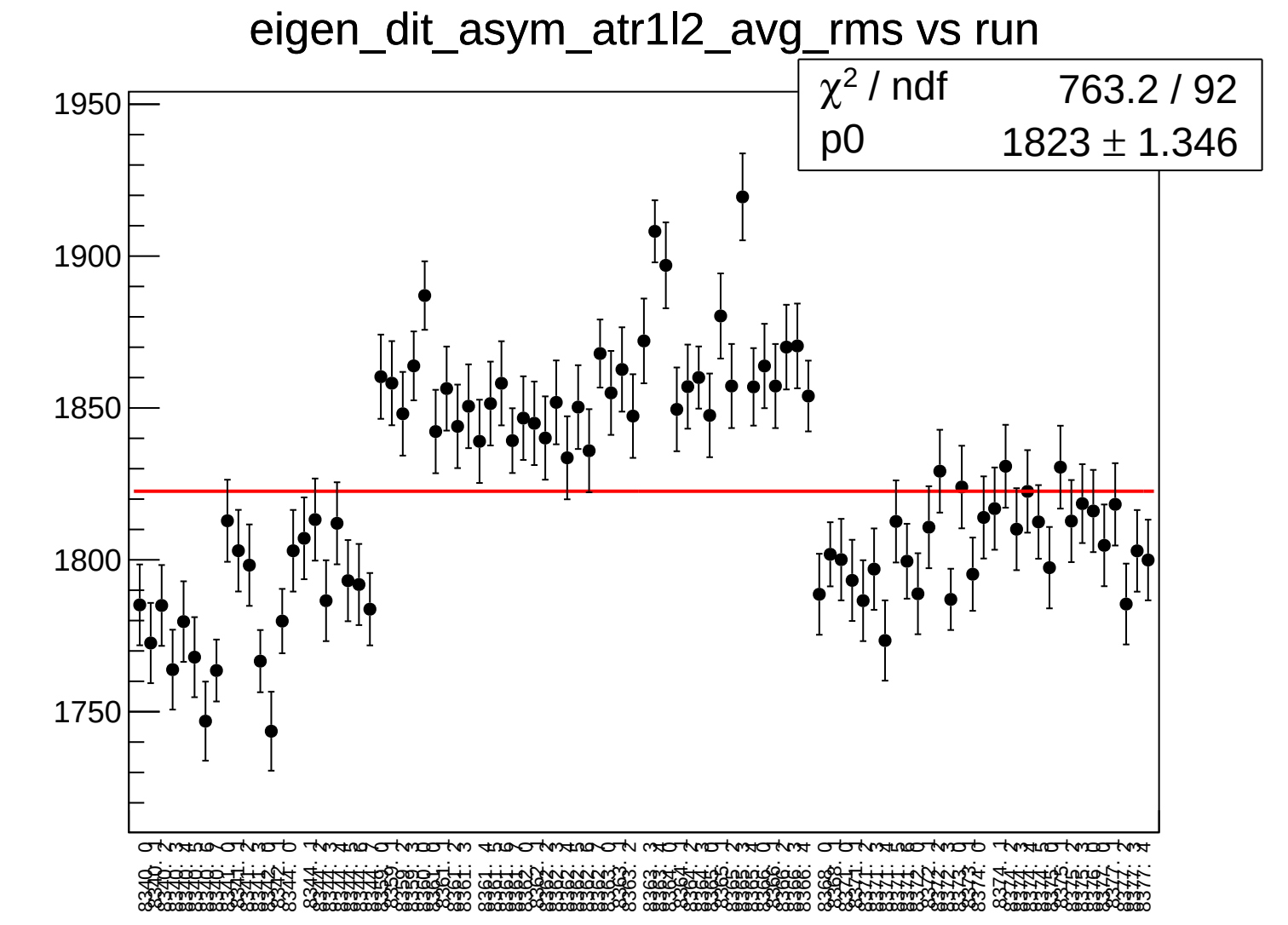

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 763.2 / 92
p0 1823 ± 1.346
1950
1900
1850
1800
1750

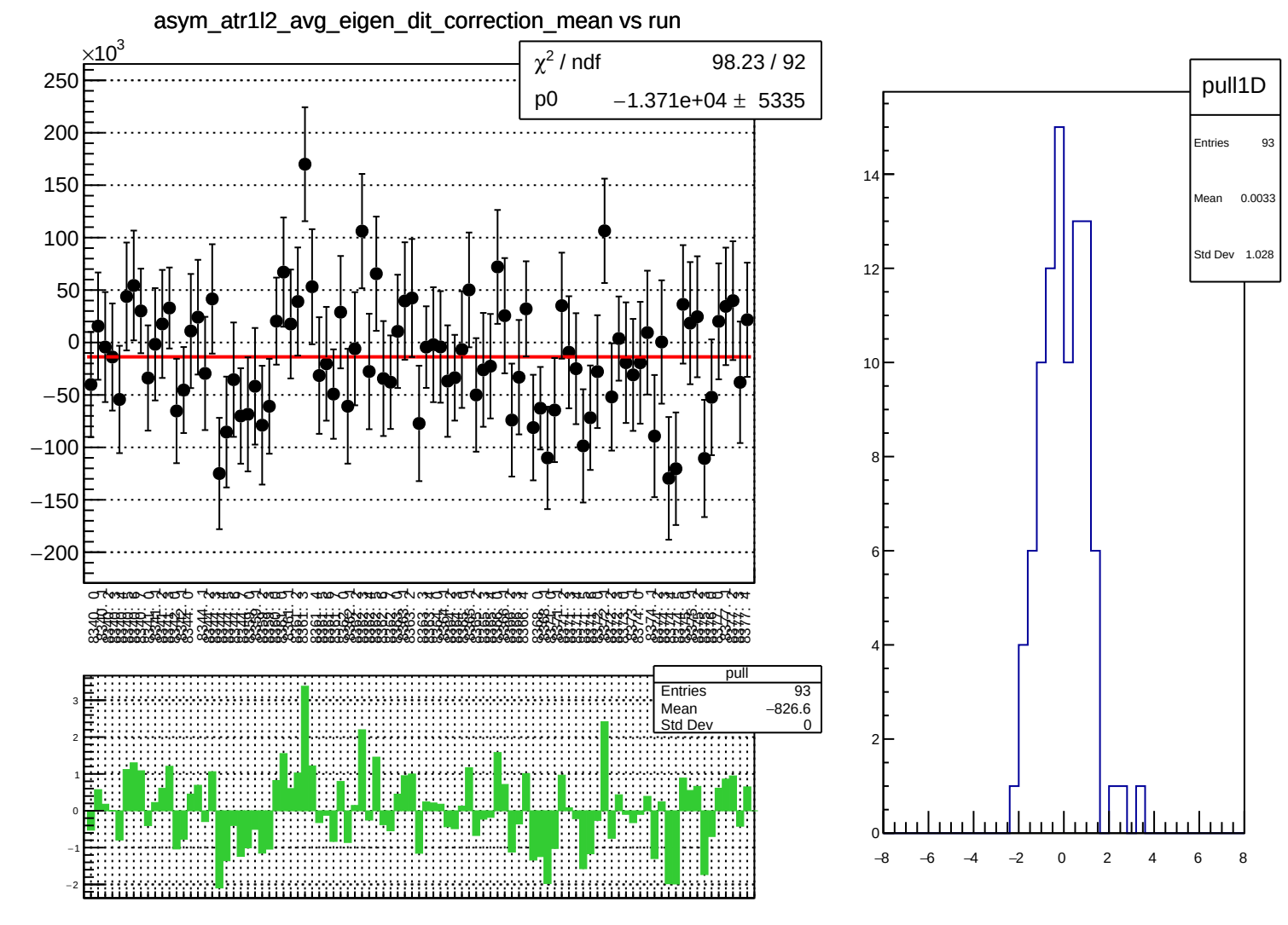

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 98.23 / 92
p0 −1.371e+04 ± 5335
pull
Entries 93
Mean −826.5
Std Dev 0
pull1D
Entries 93
Mean 0.0033
Std Dev 1.028

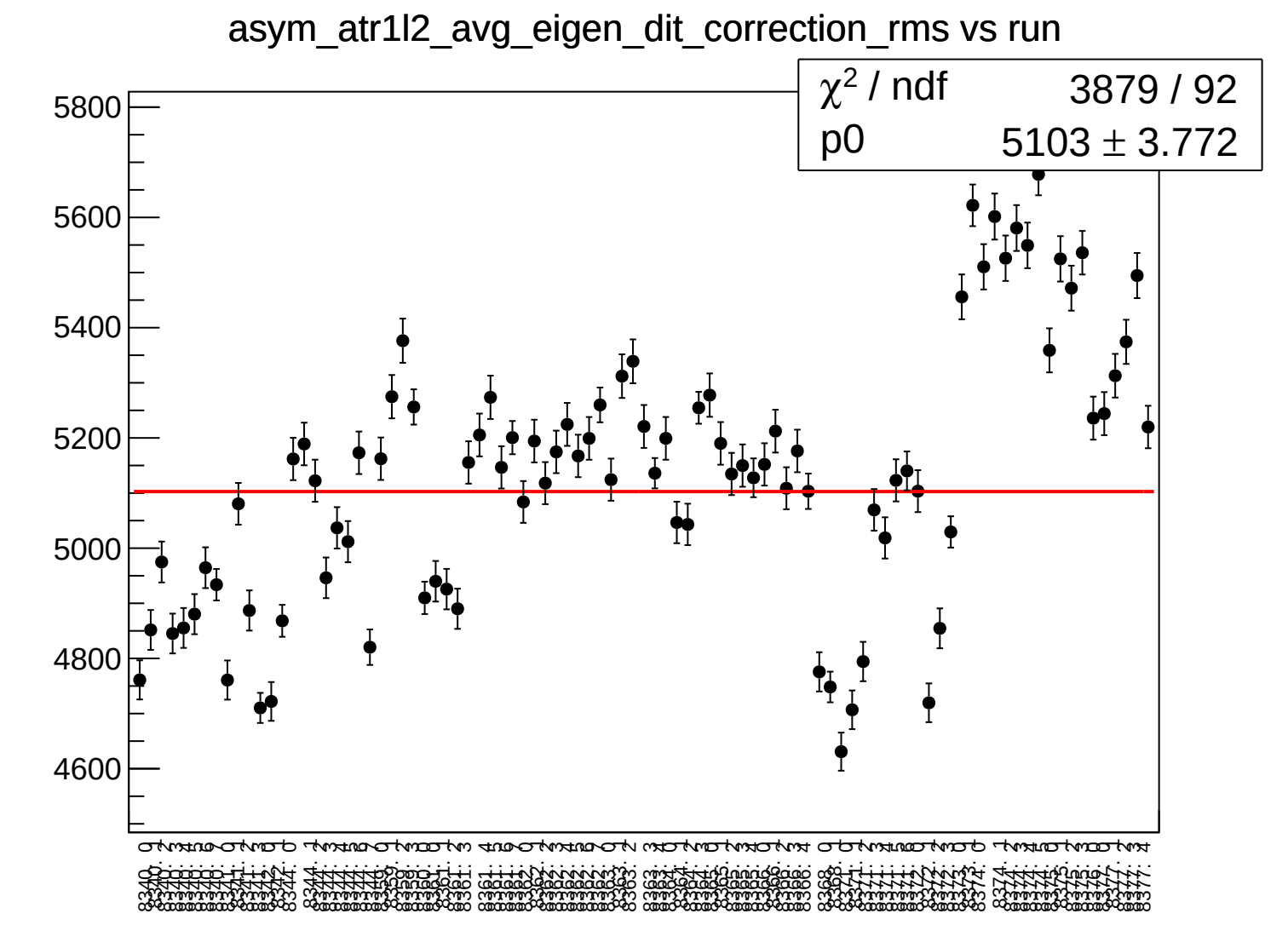

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 3879 / 92
p0 5103 ± 3.772
5800
5600
5400
5200
5000
4800
4600

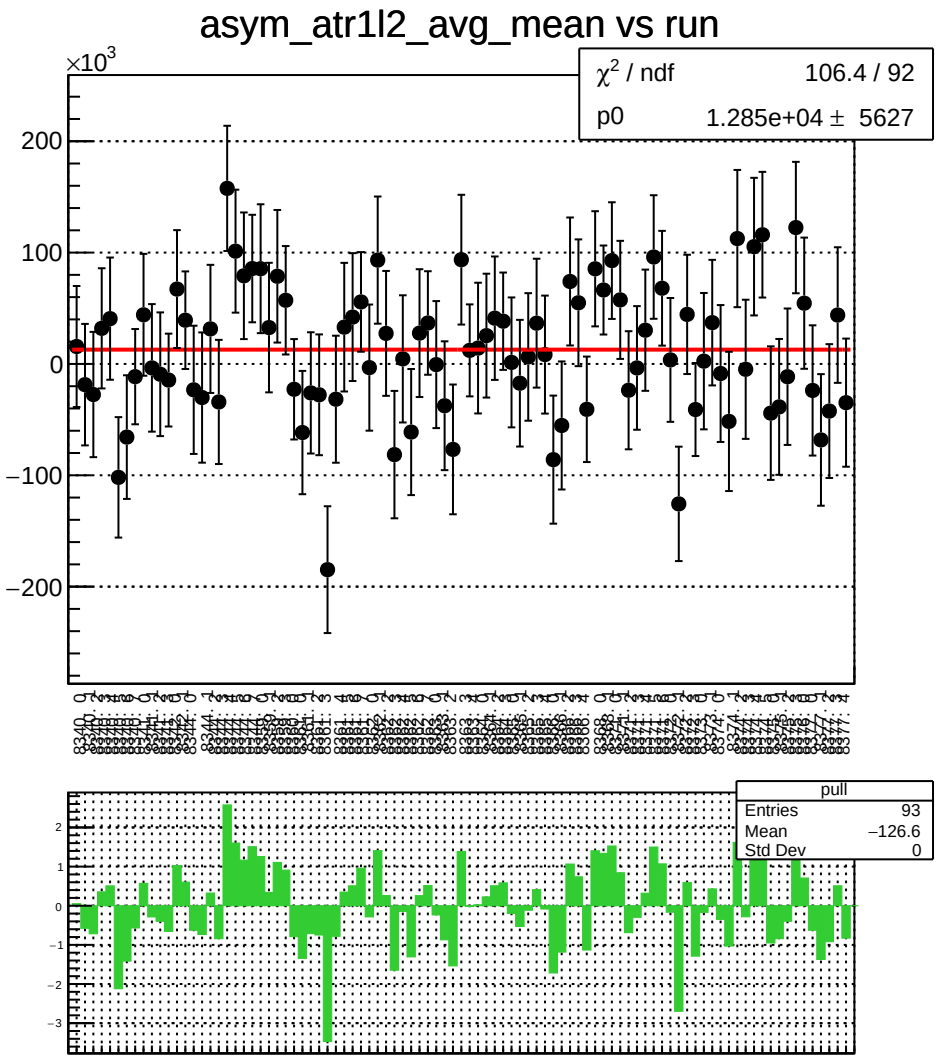

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 91.92 / 92
p0 −1075 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 2945
Std Dev 0
2
1
0
−1
−2
−3

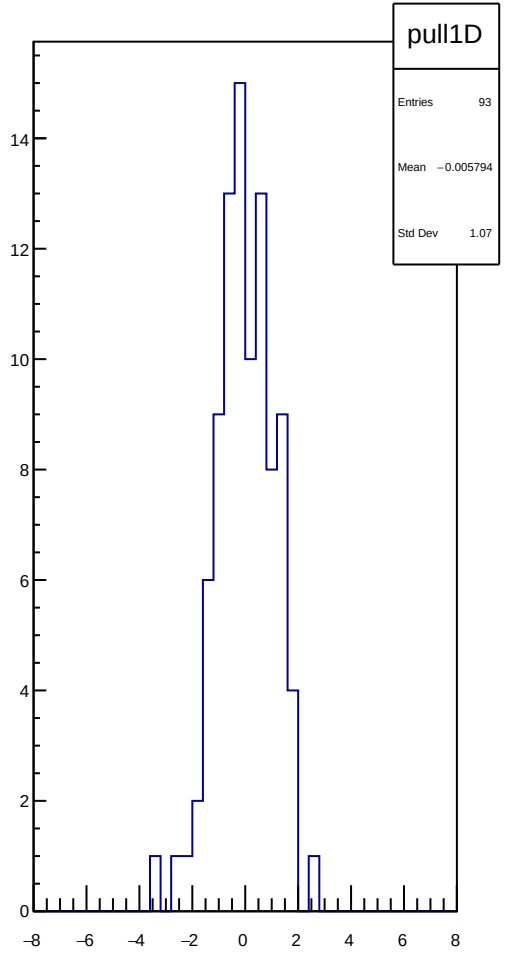

pull1D
Entries 93
Mean −0.0018
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

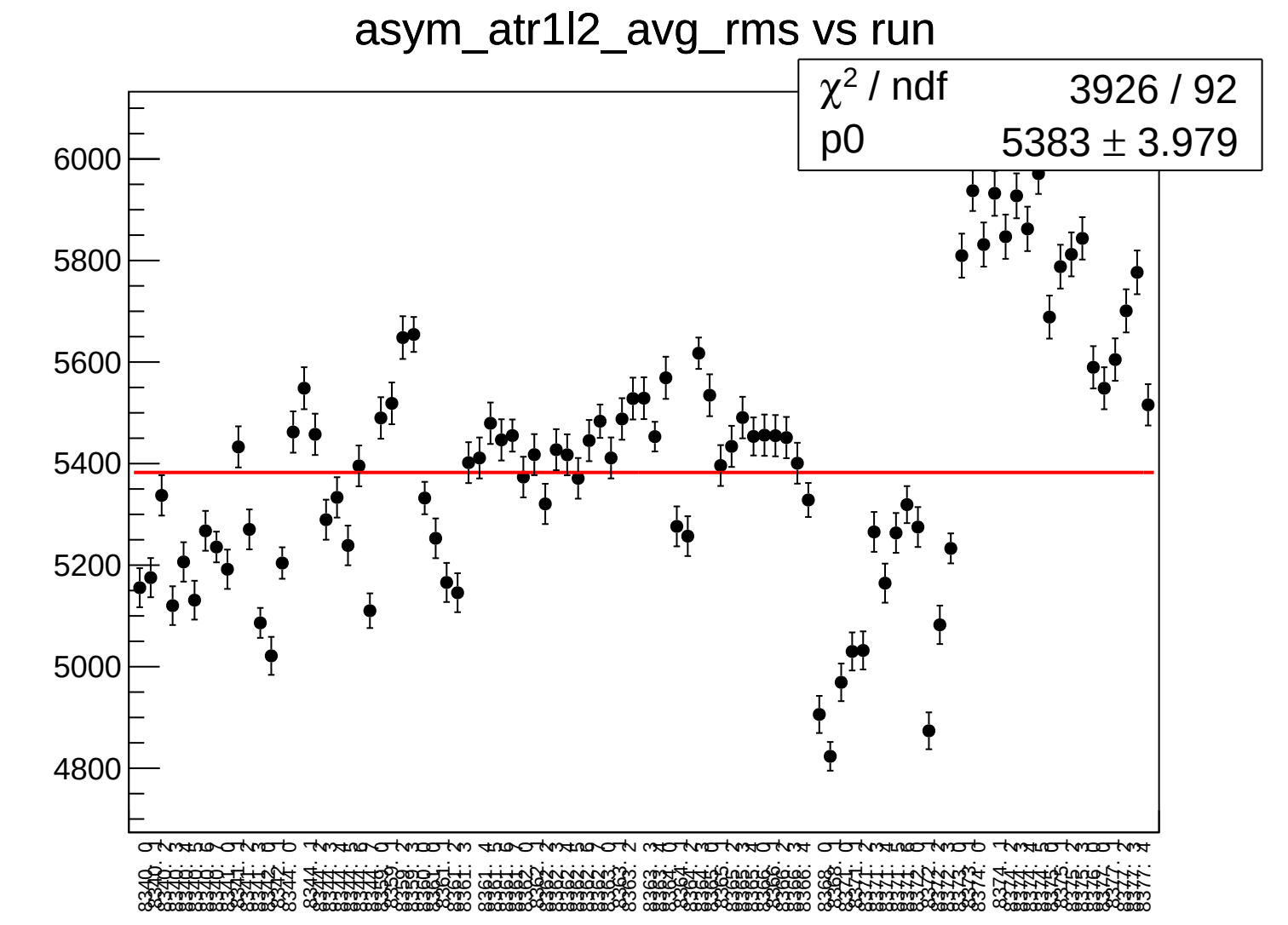

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 763.2 / 92
p0 1823 ± 1.346
1950
1900
1850
1800
1750

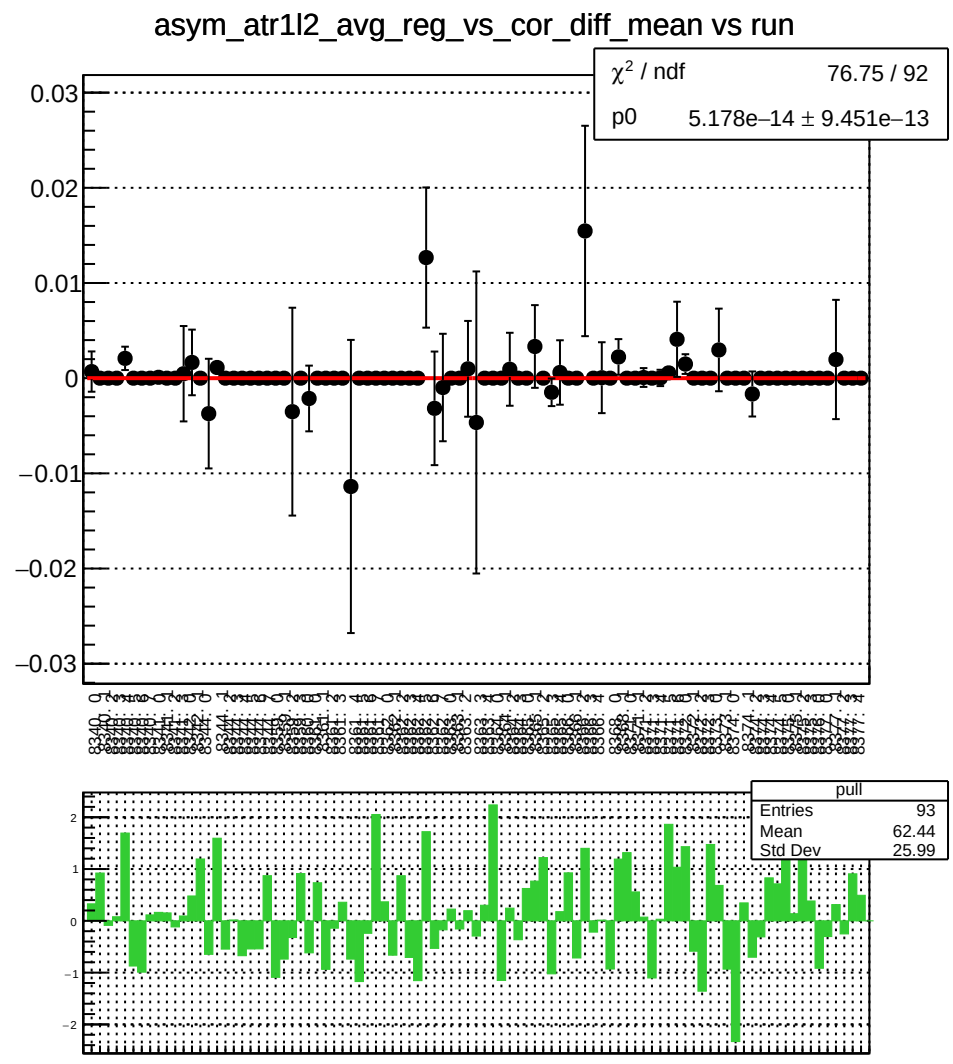

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.23 / 92
p0 −1.371e+04 ± 5335
pull
Entries 93
Mean −826.6
Std Dev 0
pull1D
Entries 93
Mean 0.0033
Std Dev 1.028

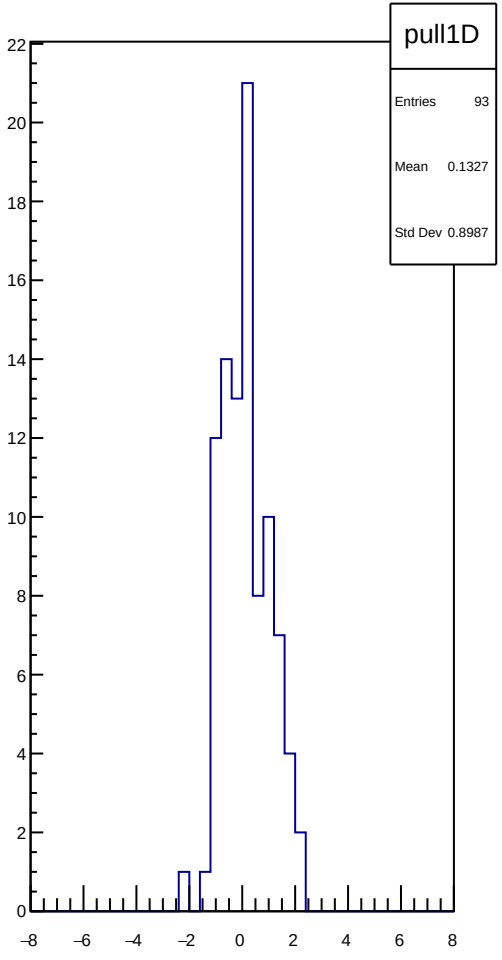

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3879 / 92
p0 5103 ± 3.772
5800
5600
5400
5200
5000
4800
4600

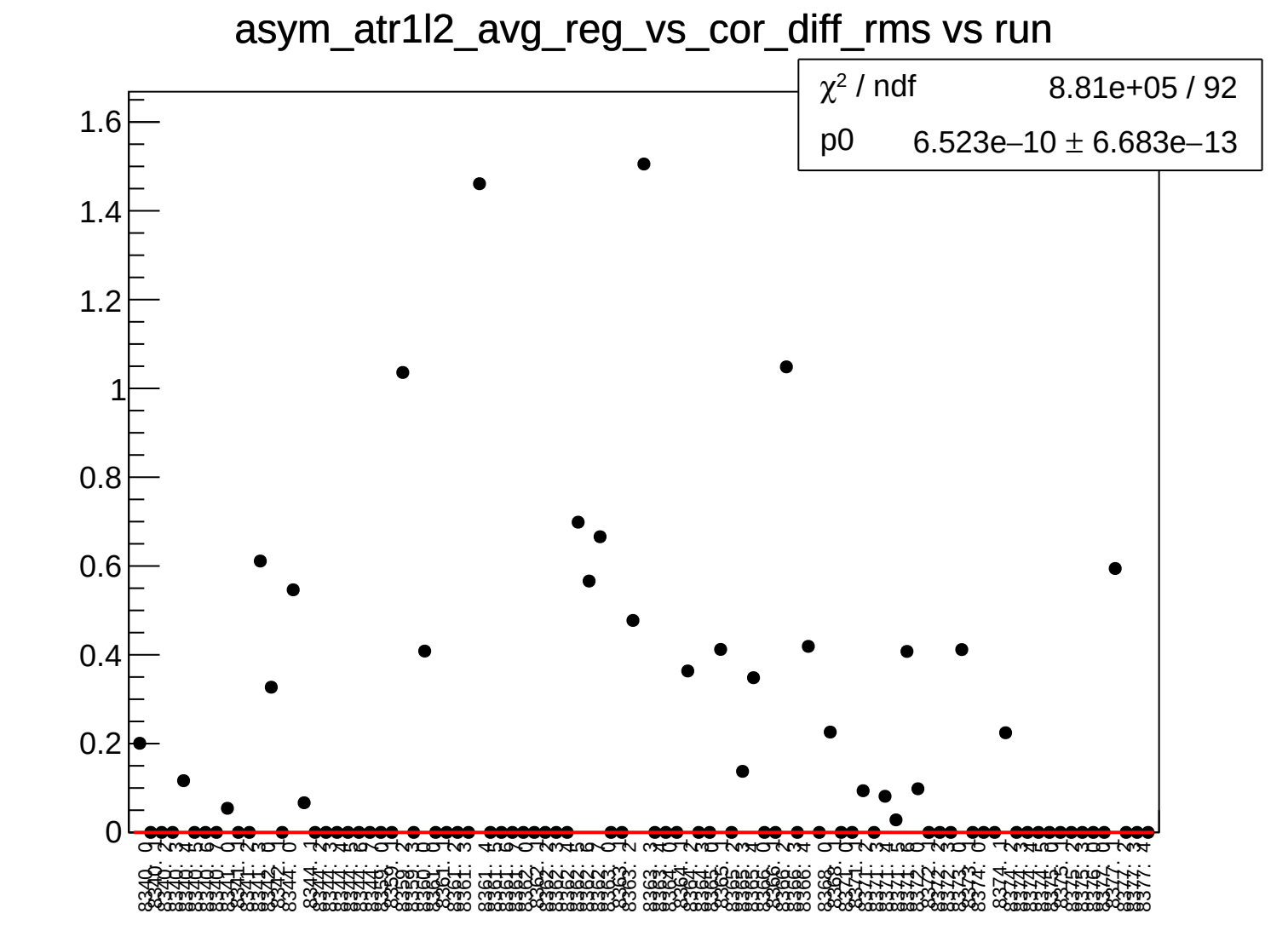

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 106.4 / 92
p0 1.285e+04 ± 5627
200
100
0
−100
−200
pull
Entries 93
Mean −126.6
Std Dev 0
2
1
0
−1
−2
−3

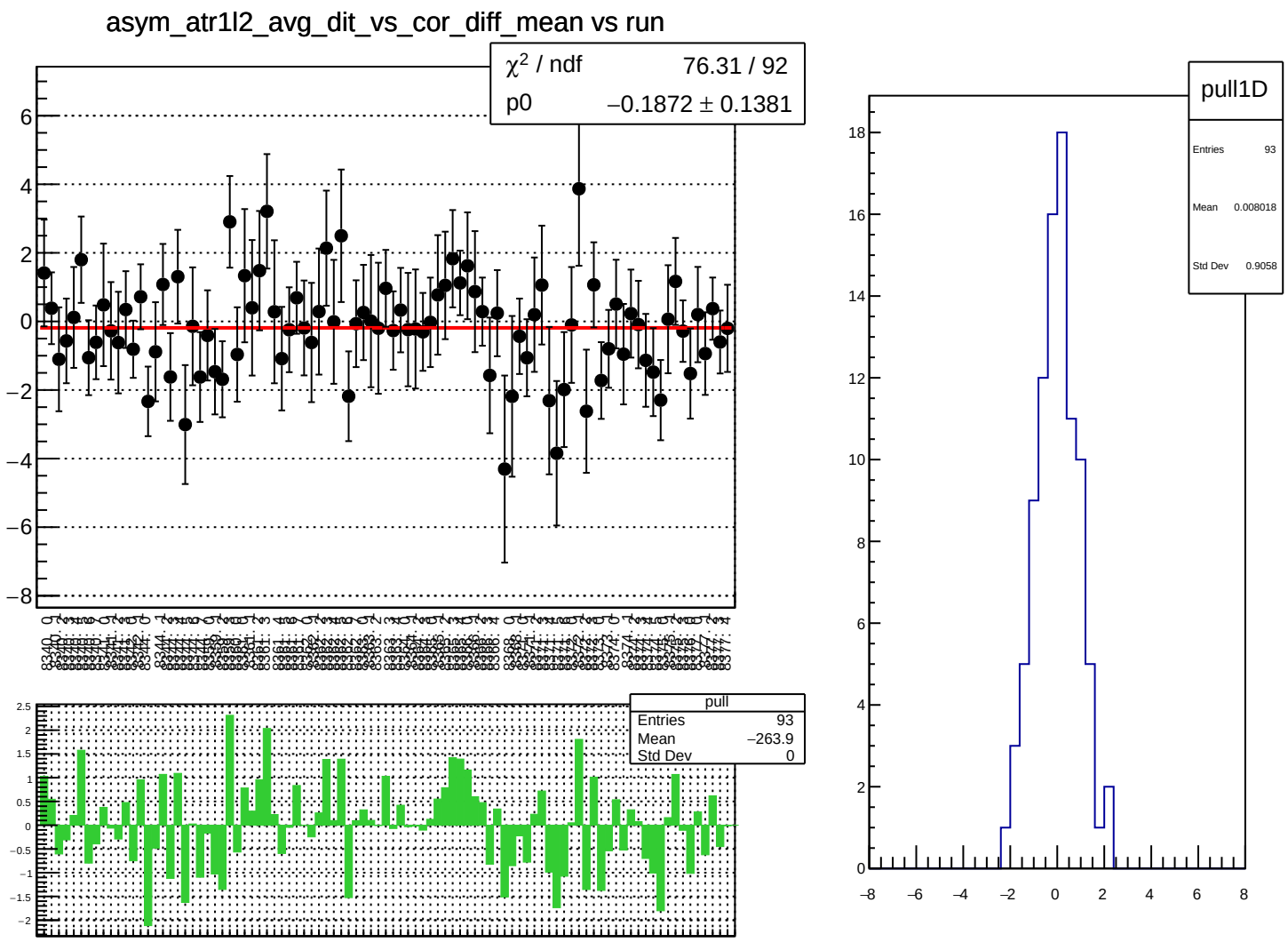

pull1D
Entries 93
Mean −0.005794
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

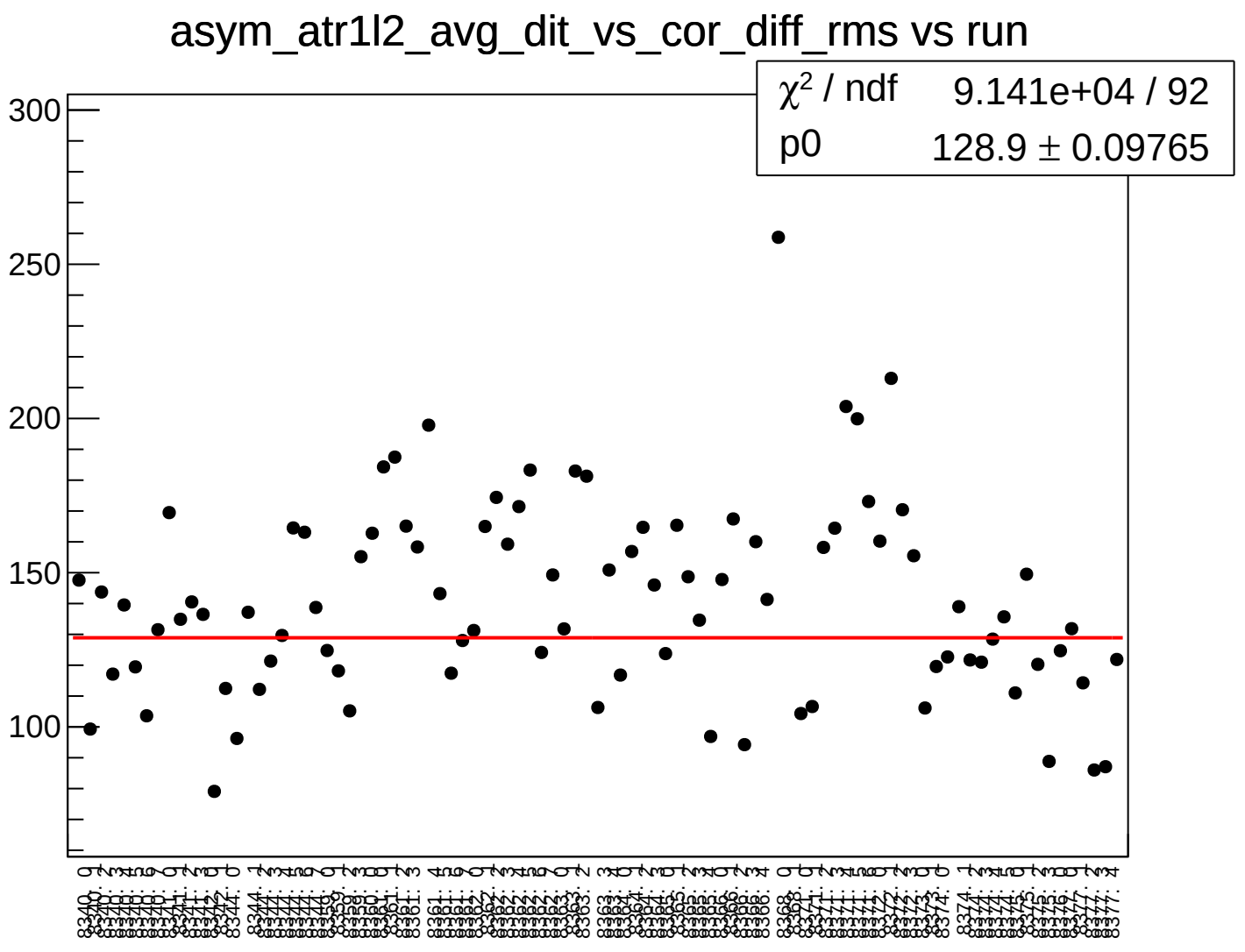

asym_atr1l2_avg_rms vs run
χ² / ndf 3926 / 92
p0 5383 ± 3.979
6000
5800
5600
5400
5200
5000
4800

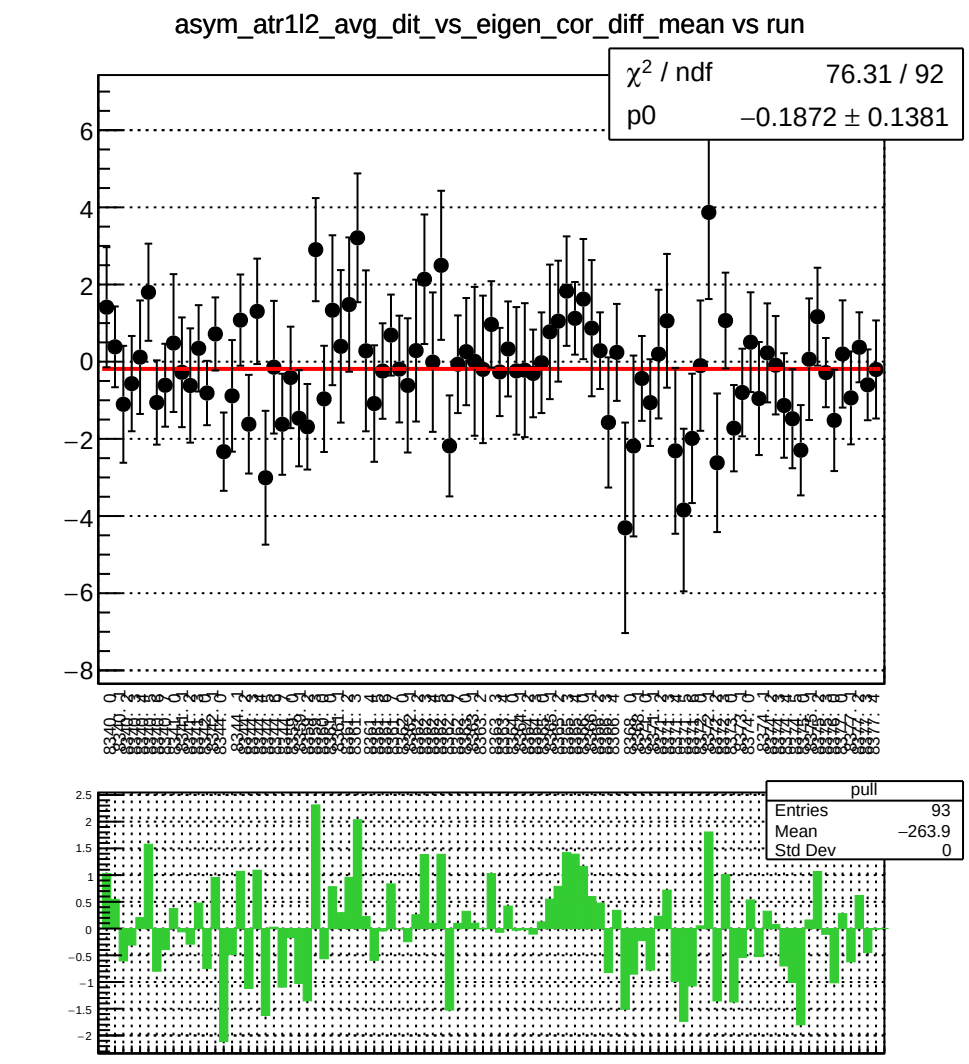

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.75 / 92
p0 5.178e−14 ± 9.451e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 62.44
Std Dev 25.99
2
1
0
−1
−2

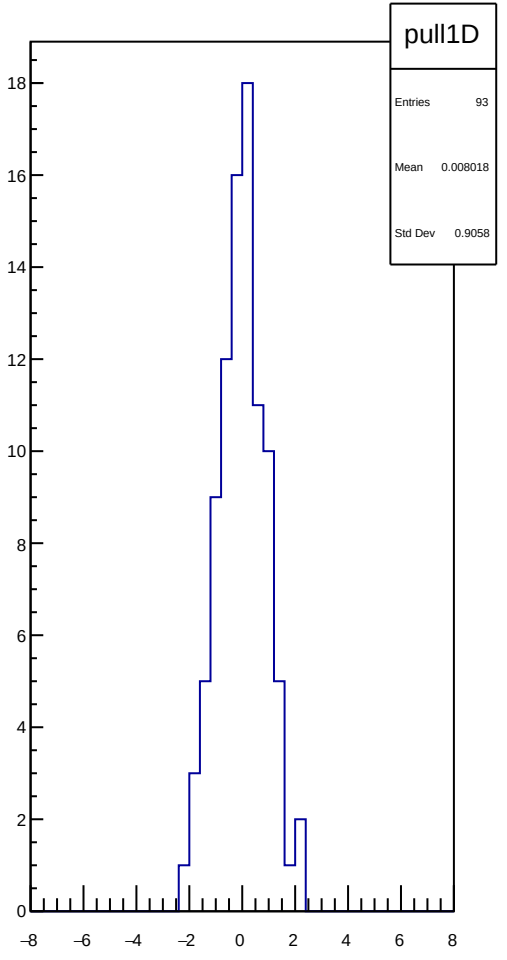

pull1D
Entries 93
Mean 0.1327
Std Dev 0.8987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

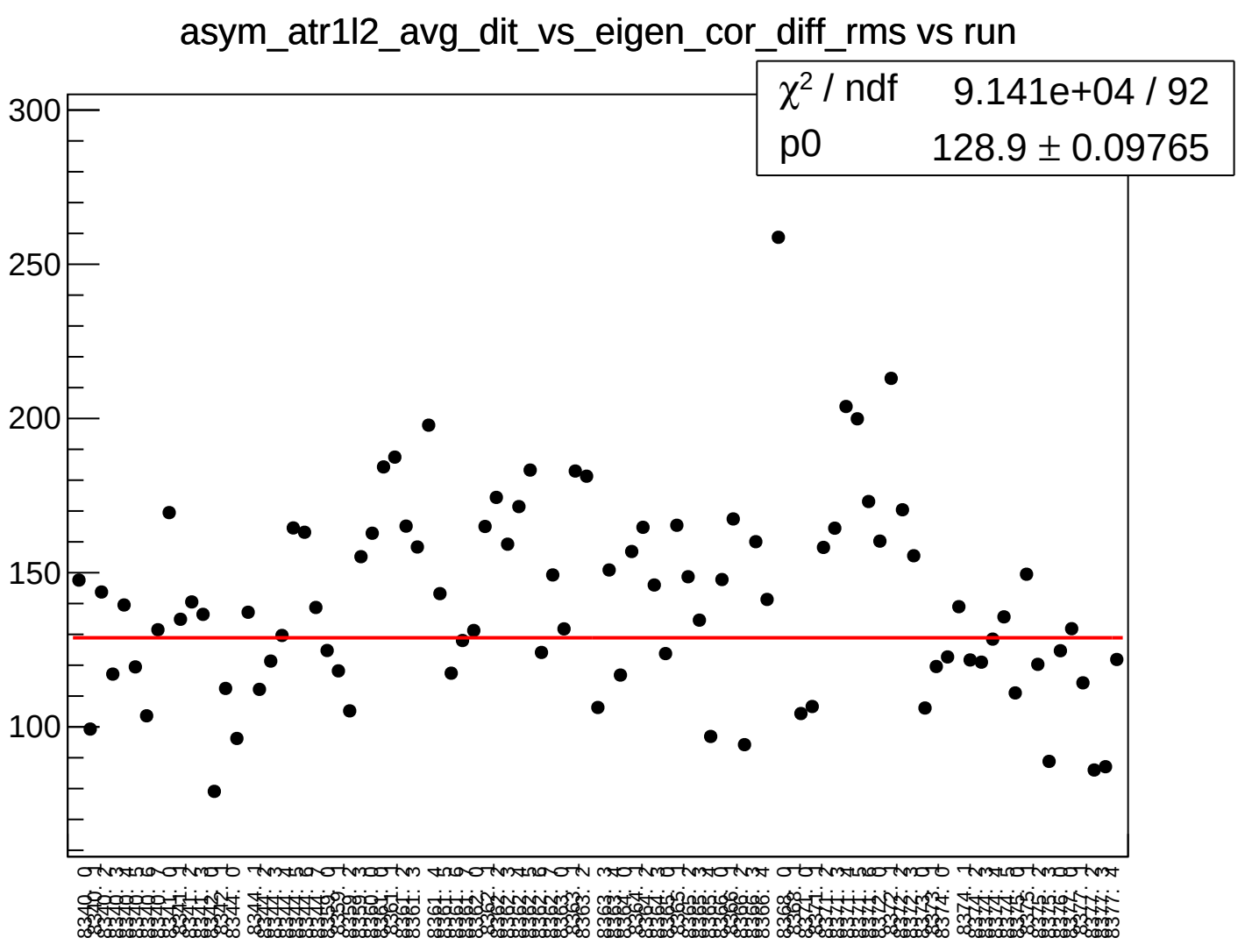

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.81e+05 / 92
p0 6.523e−10 ± 6.683e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

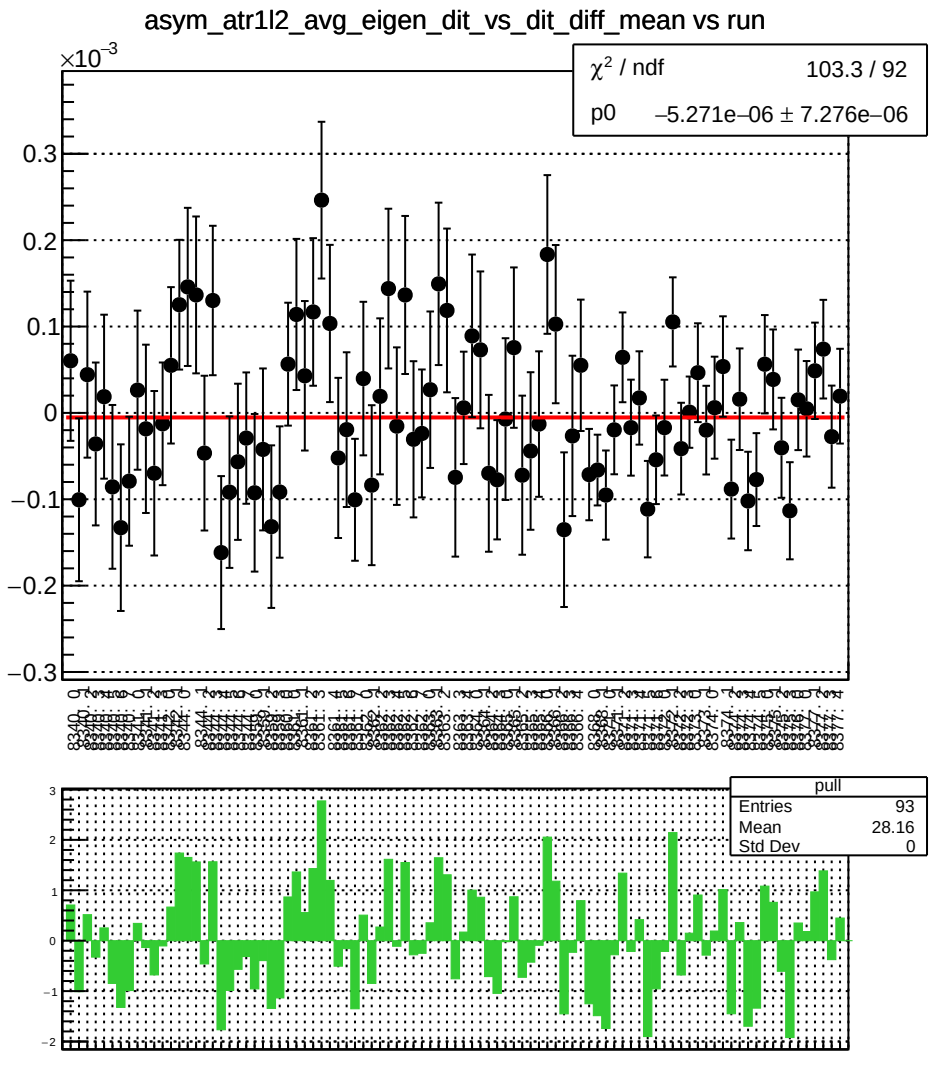

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 92
p0 −0.1872 ± 0.1381
pull
Entries 93
Mean −263.9
Std Dev 0
pull1D
Entries 93
Mean 0.008018
Std Dev 0.9058

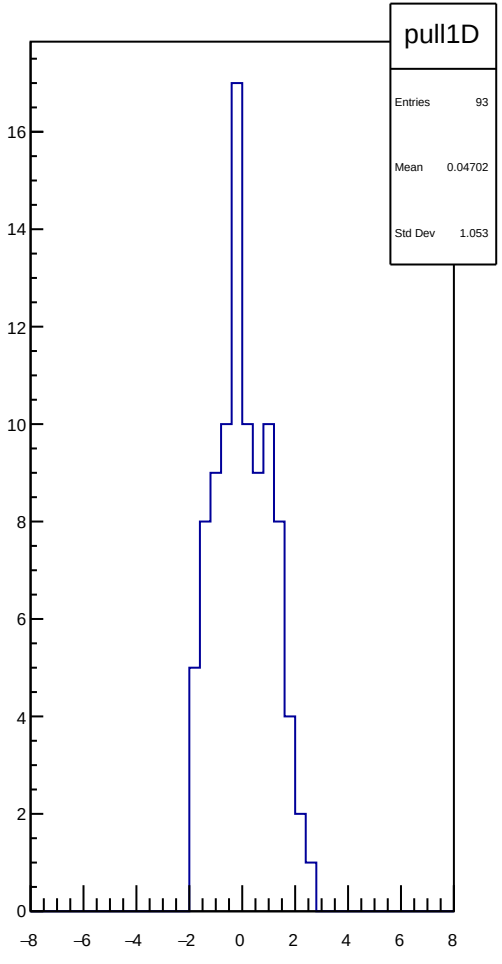

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.141e+04 / 92
p0 128.9 ± 0.09765
300
250
200
150
100

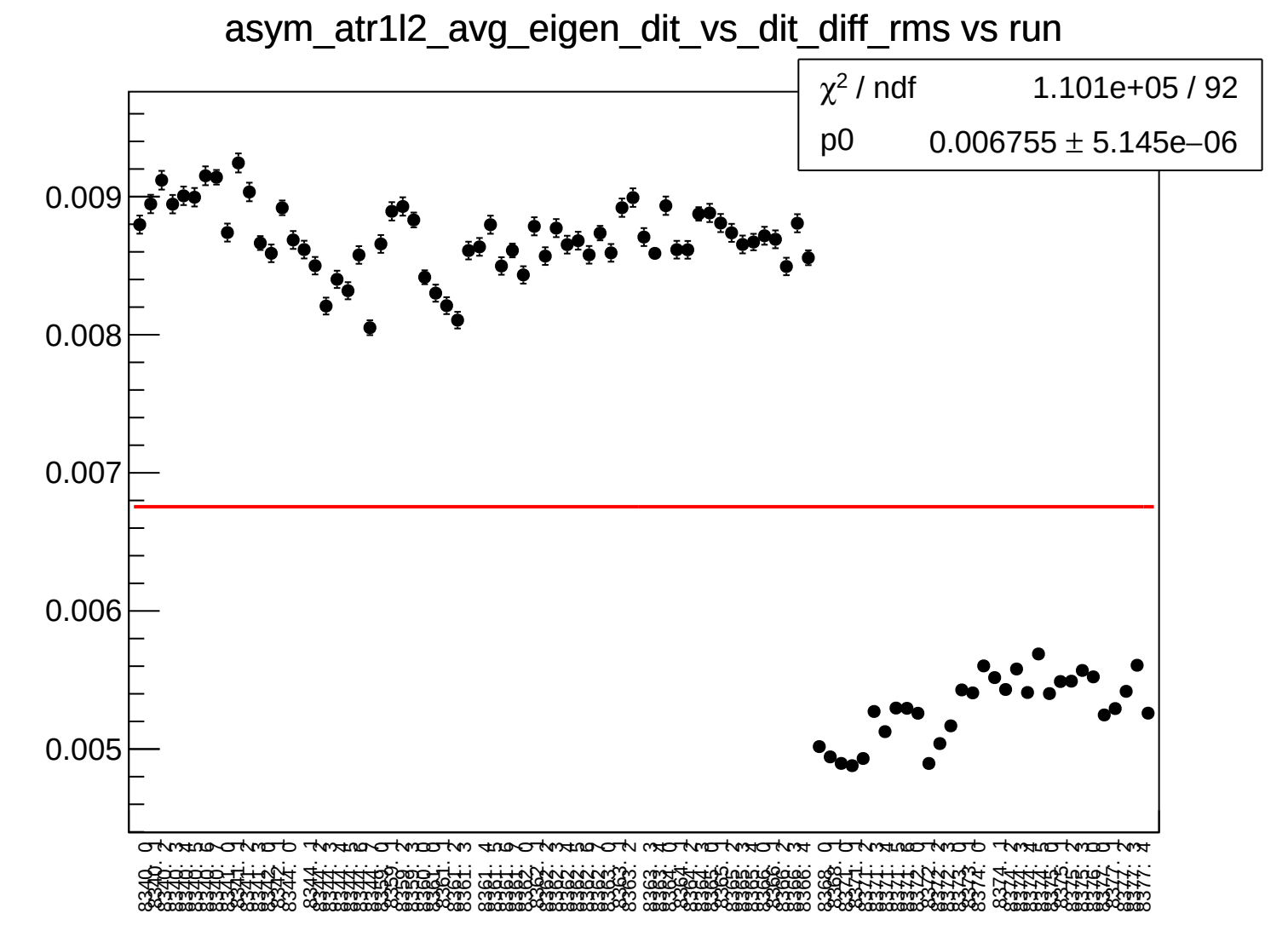

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 92
p0 −0.1872 ± 0.1381
pull
Entries 93
Mean −263.9
Std Dev 0

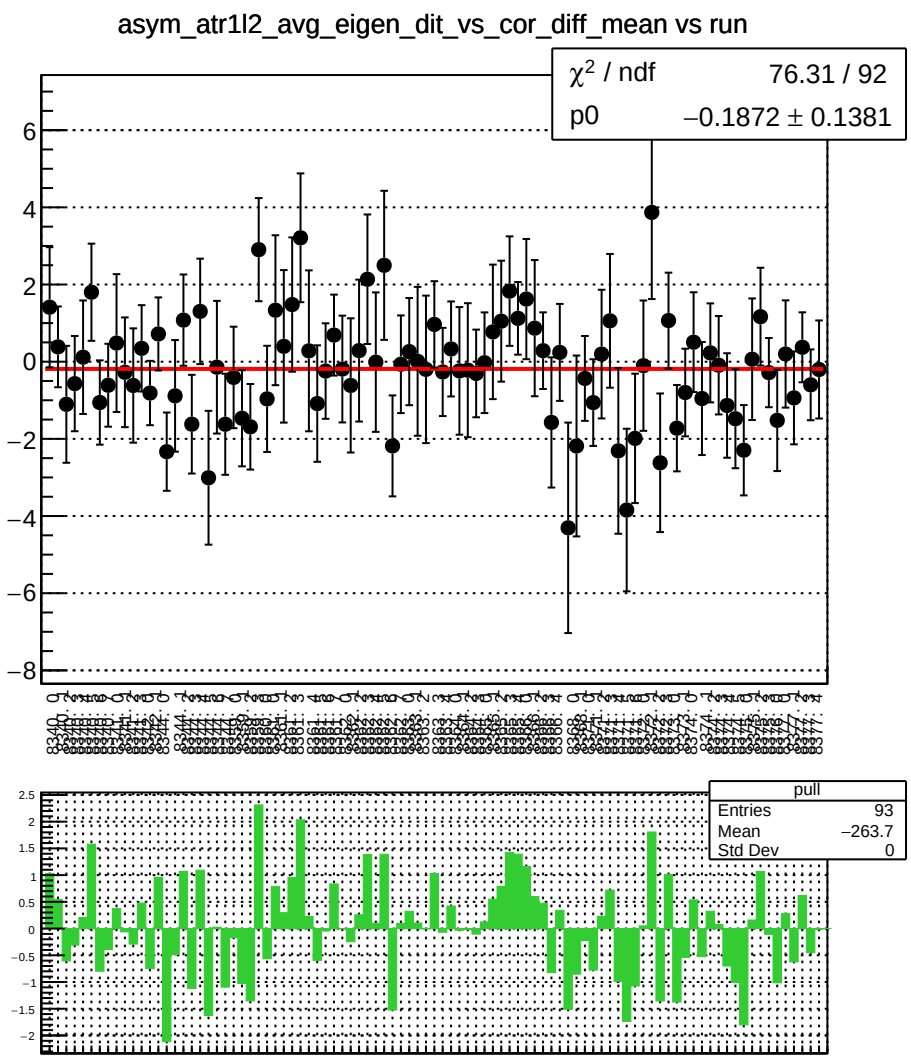

pull1D
Entries 93
Mean 0.008018
Std Dev 0.9058

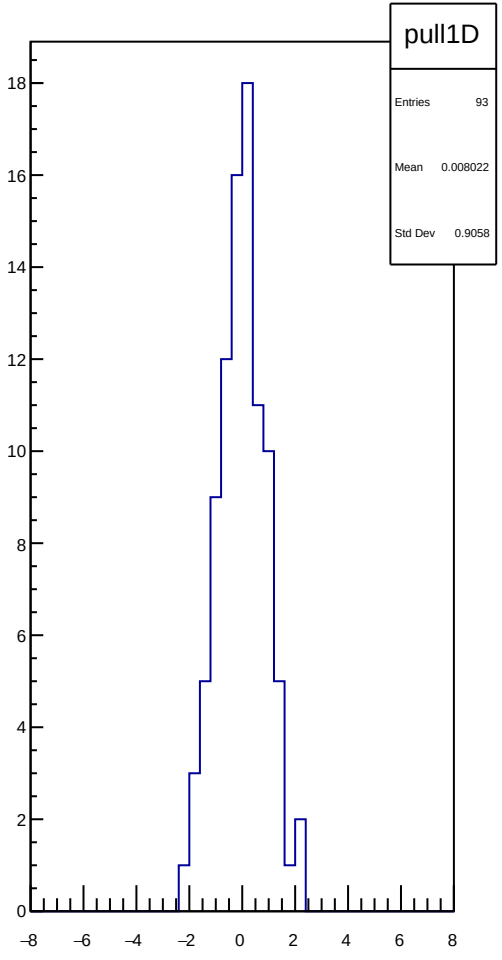

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.141e+04 / 92
p0 128.9 ± 0.09765
300
250
200
150
100

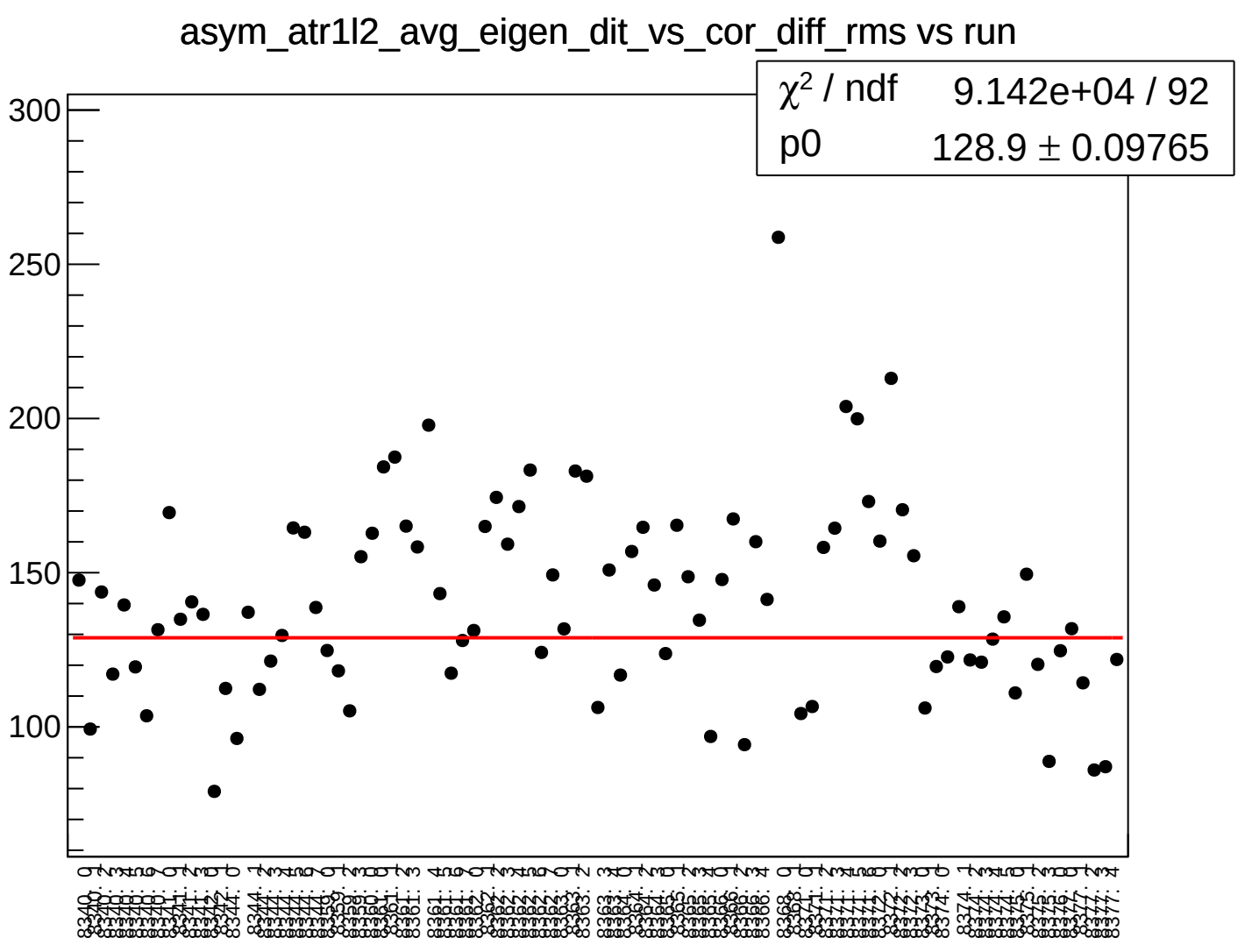

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 92
p0 −5.271e−06 ± 7.276e−06
pull
Entries 93
Mean 28.16
Std Dev 0

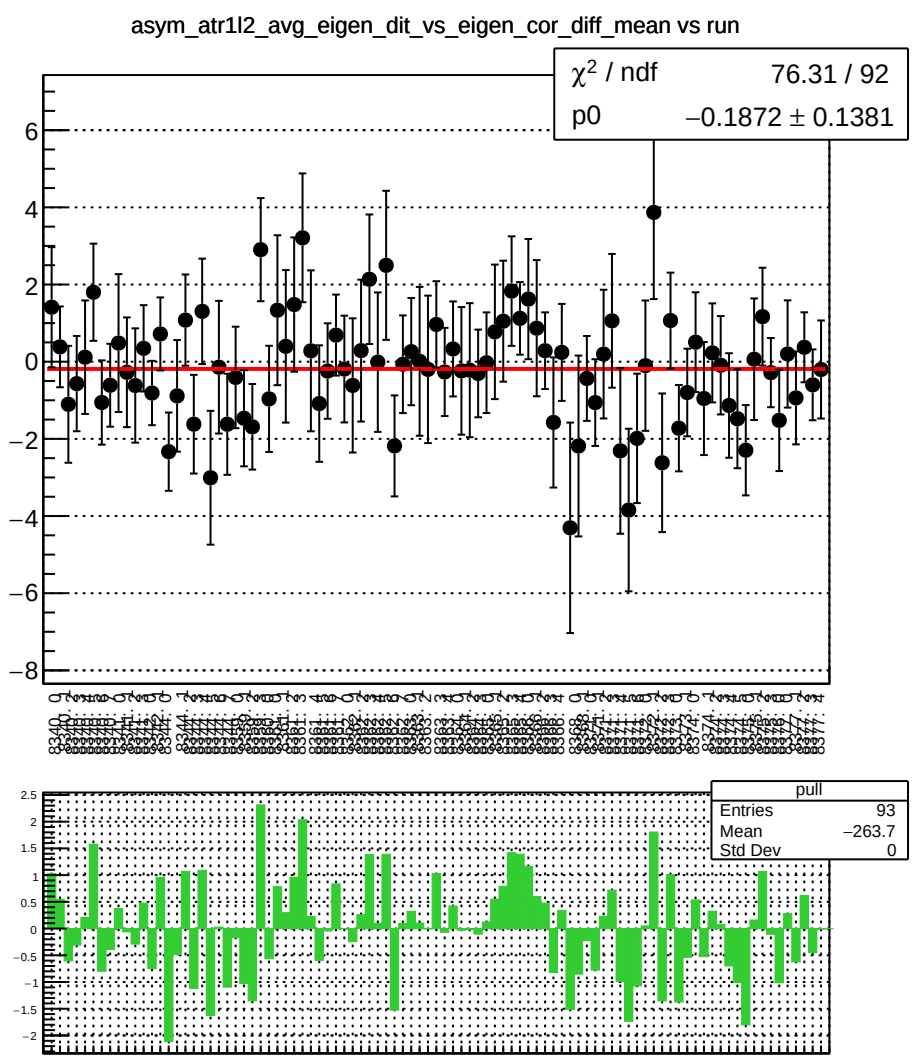

pull1D
Entries 93
Mean 0.04702
Std Dev 1.053

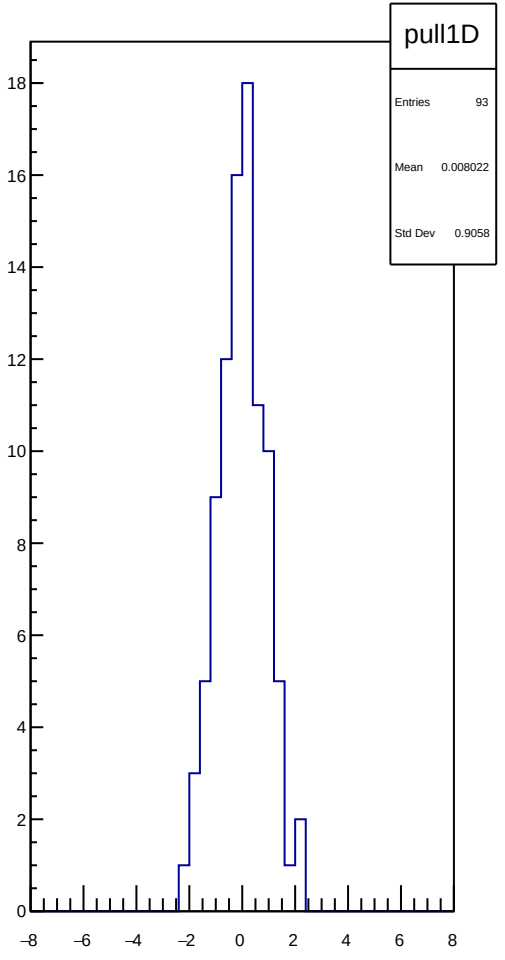

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.101e+05 / 92
p0 0.006755 ± 5.145e−06
0.009
0.008
0.007
0.006
0.005

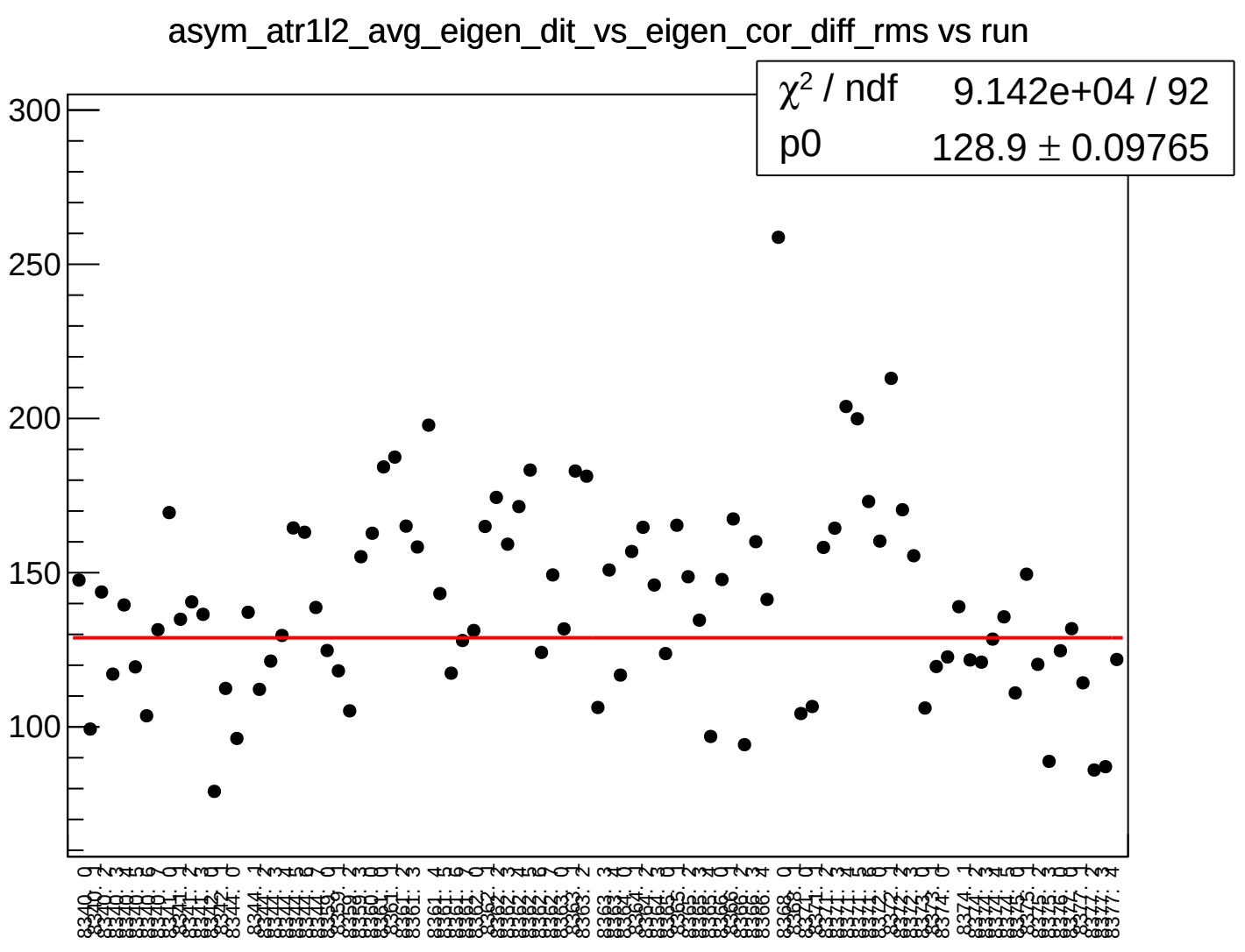

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.31 / 92
p0 −0.1872 ± 0.1381
pull
Entries 93
Mean −263.7
Std Dev 0

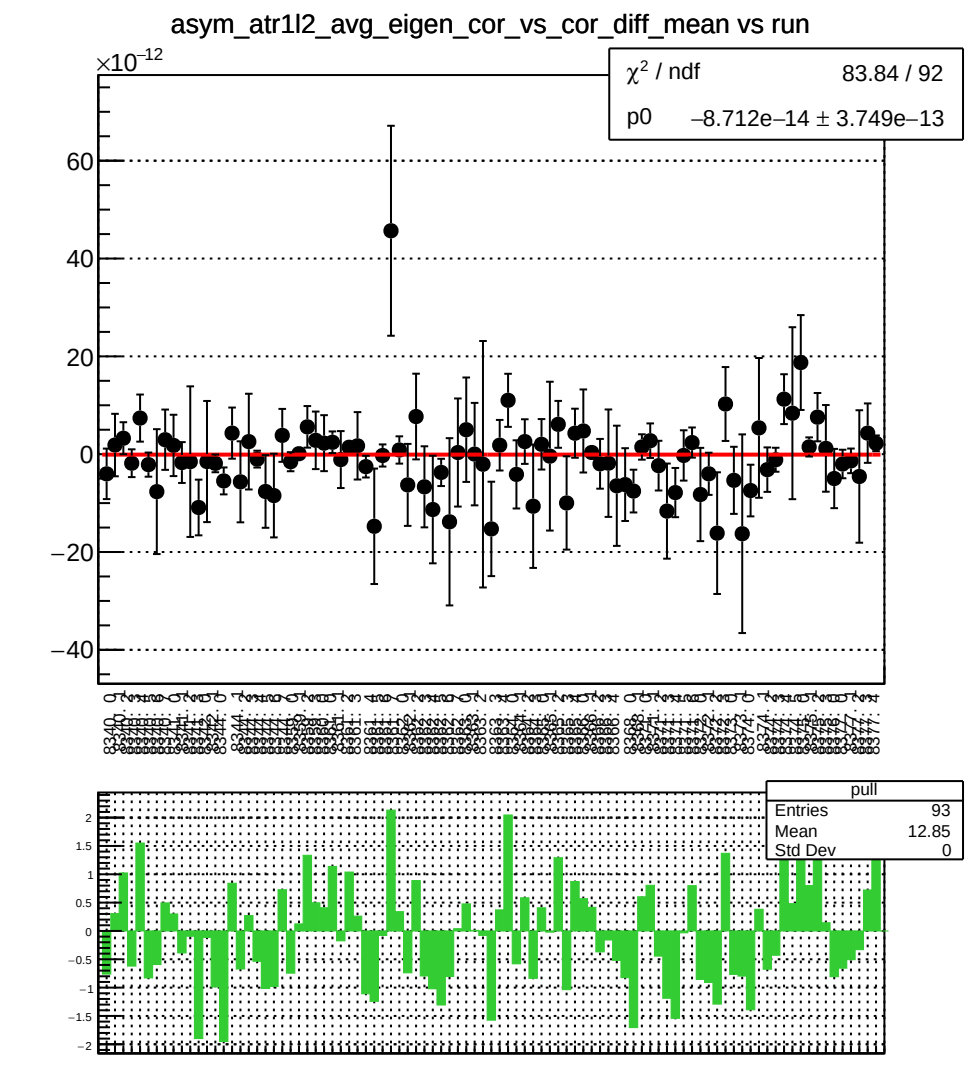

pull1D
Entries 93
Mean 0.008022
Std Dev 0.9058

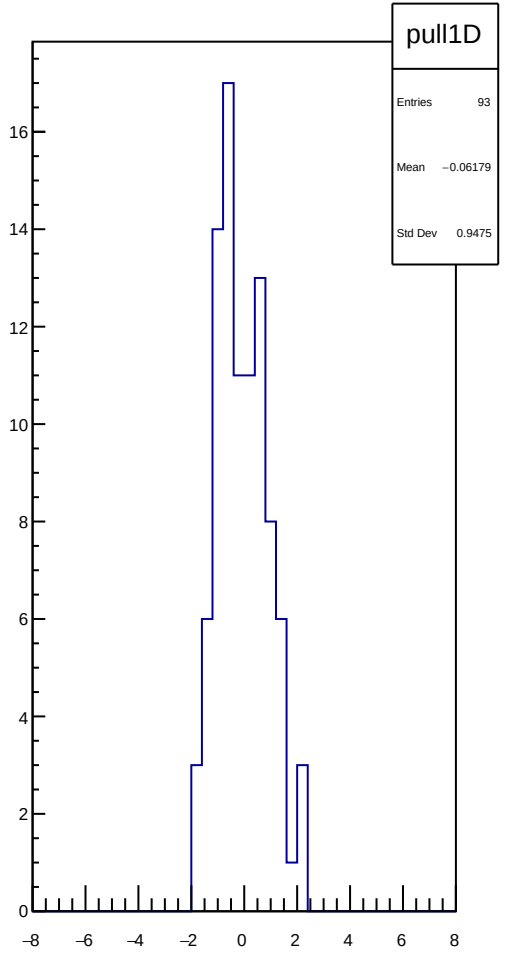

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.142e+04 / 92
p0 128.9 ± 0.09765
300
250
200
150
100

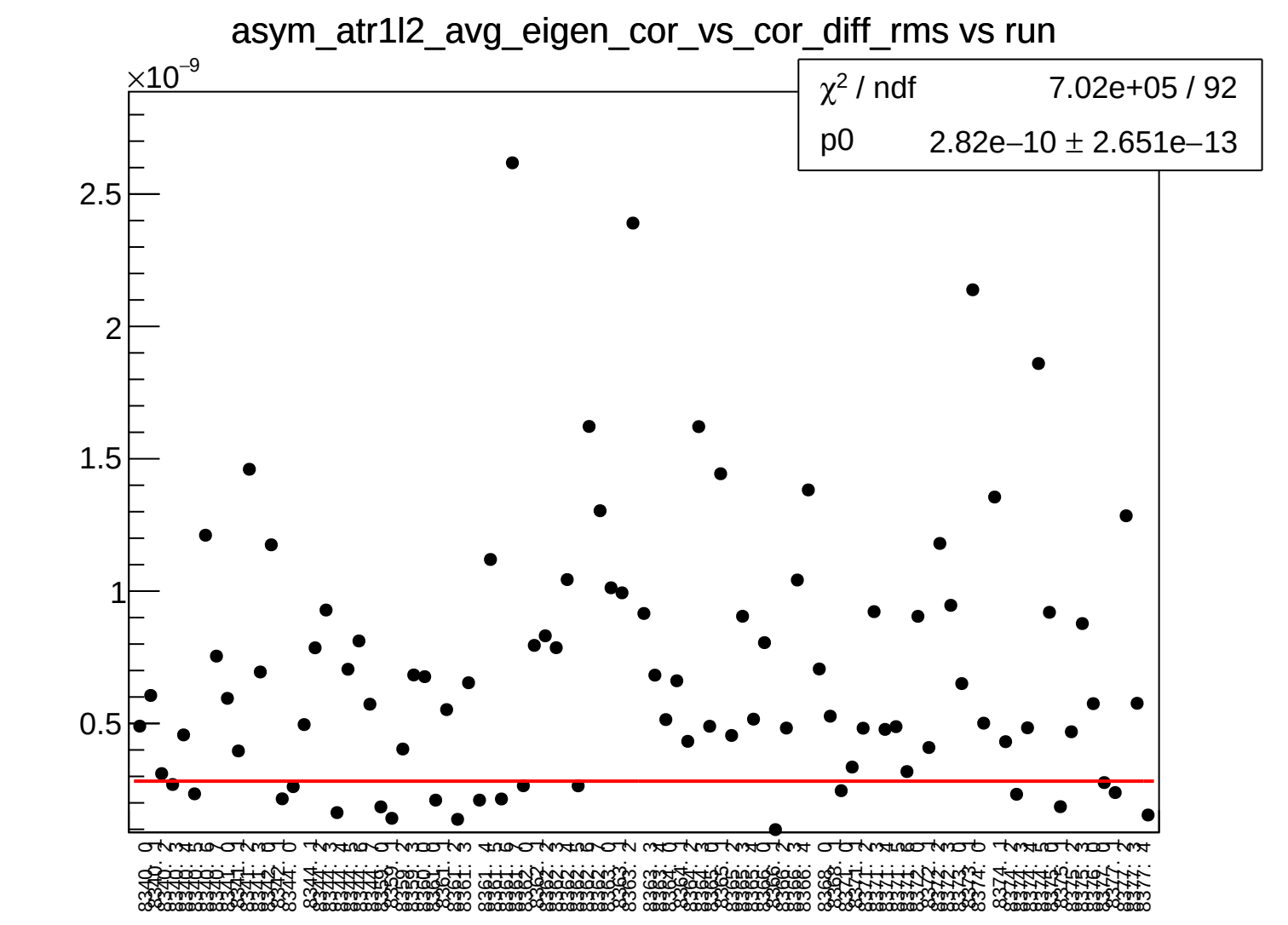

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.31 / 92
p0 −0.1872 ± 0.1381
pull
Entries 93
Mean −263.7
Std Dev 0

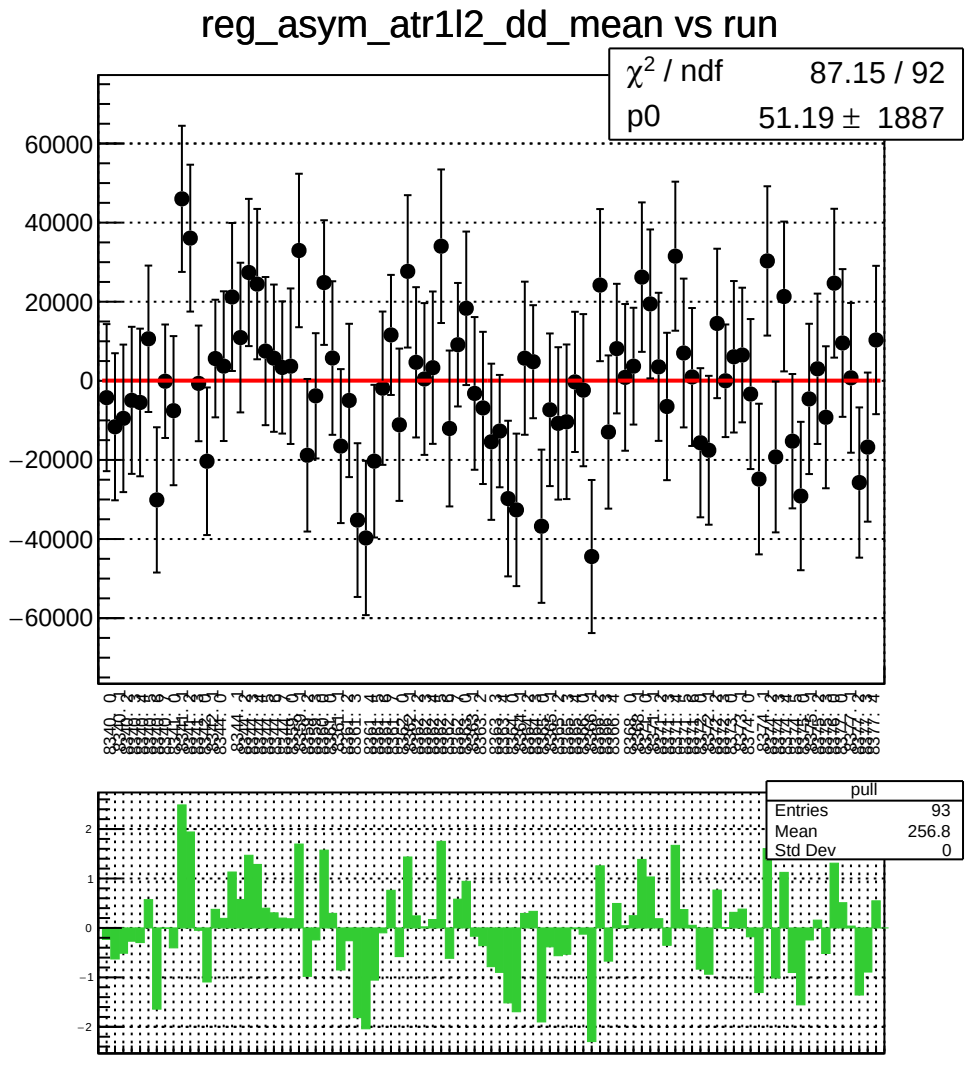

pull1D
Entries 93
Mean 0.008022
Std Dev 0.9058

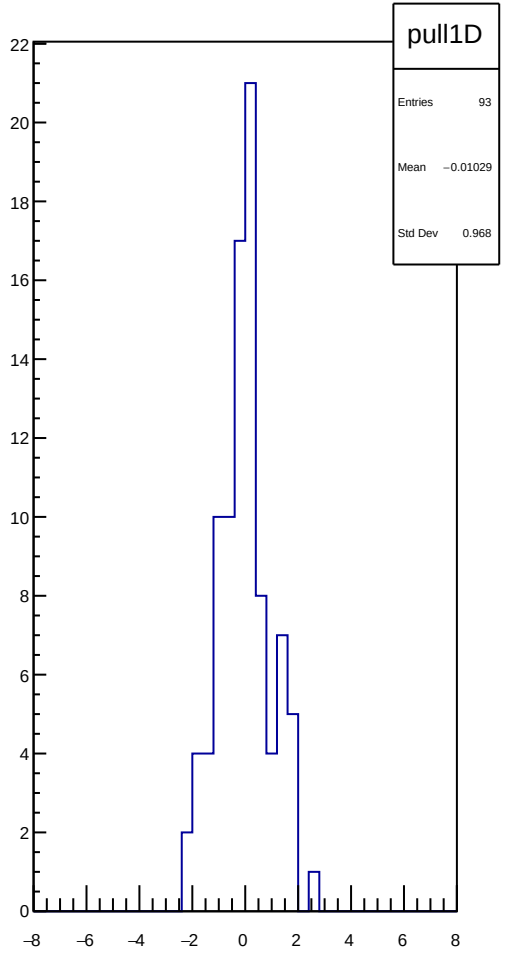

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.142e+04 / 92
p0 128.9 ± 0.09765
300
250
200
150
100

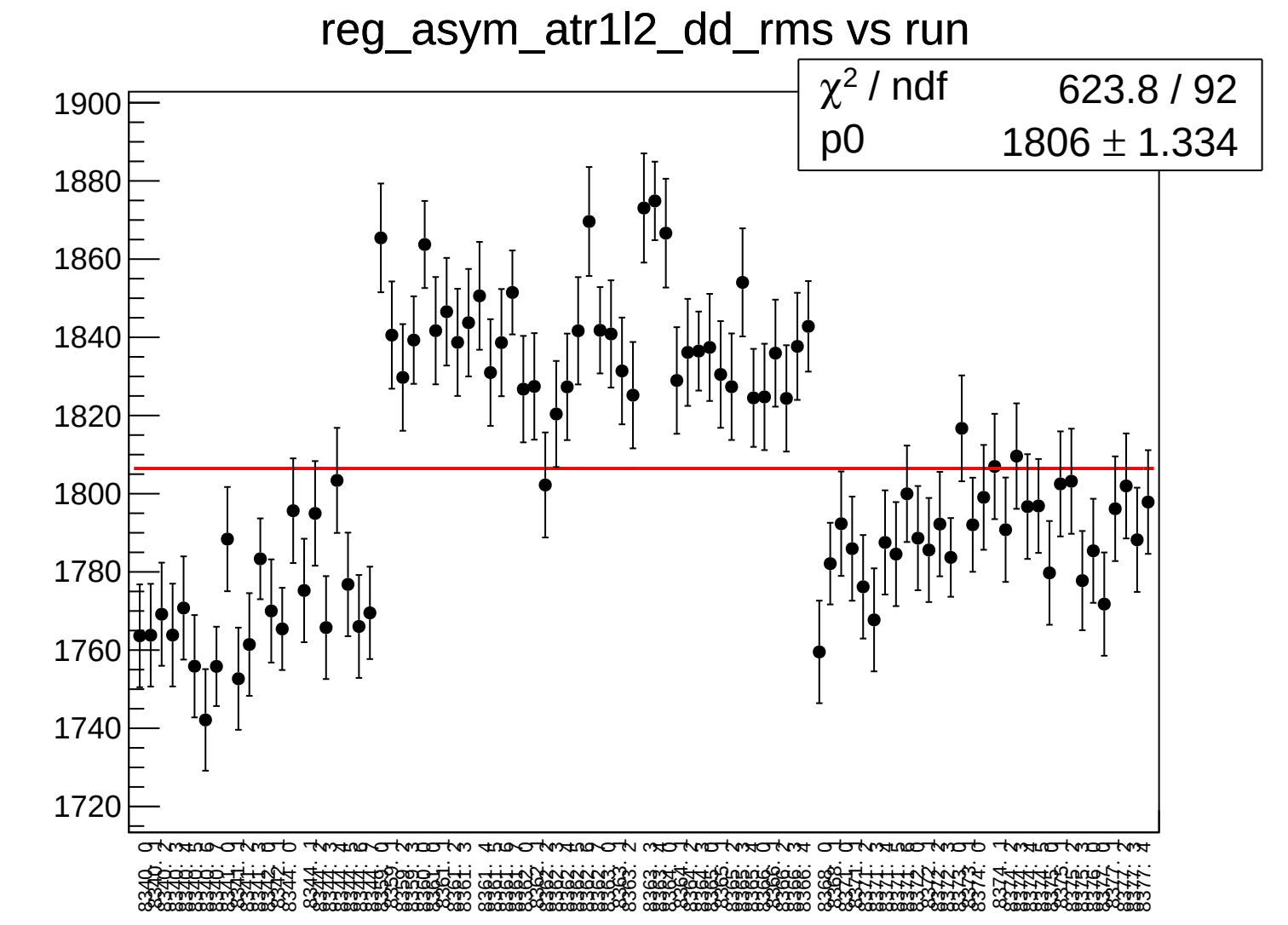

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.84 / 92
p0 −8.712e−14 ± 3.749e−13
60
40
20
0
−20
−40
pull
Entries 93
Mean 12.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

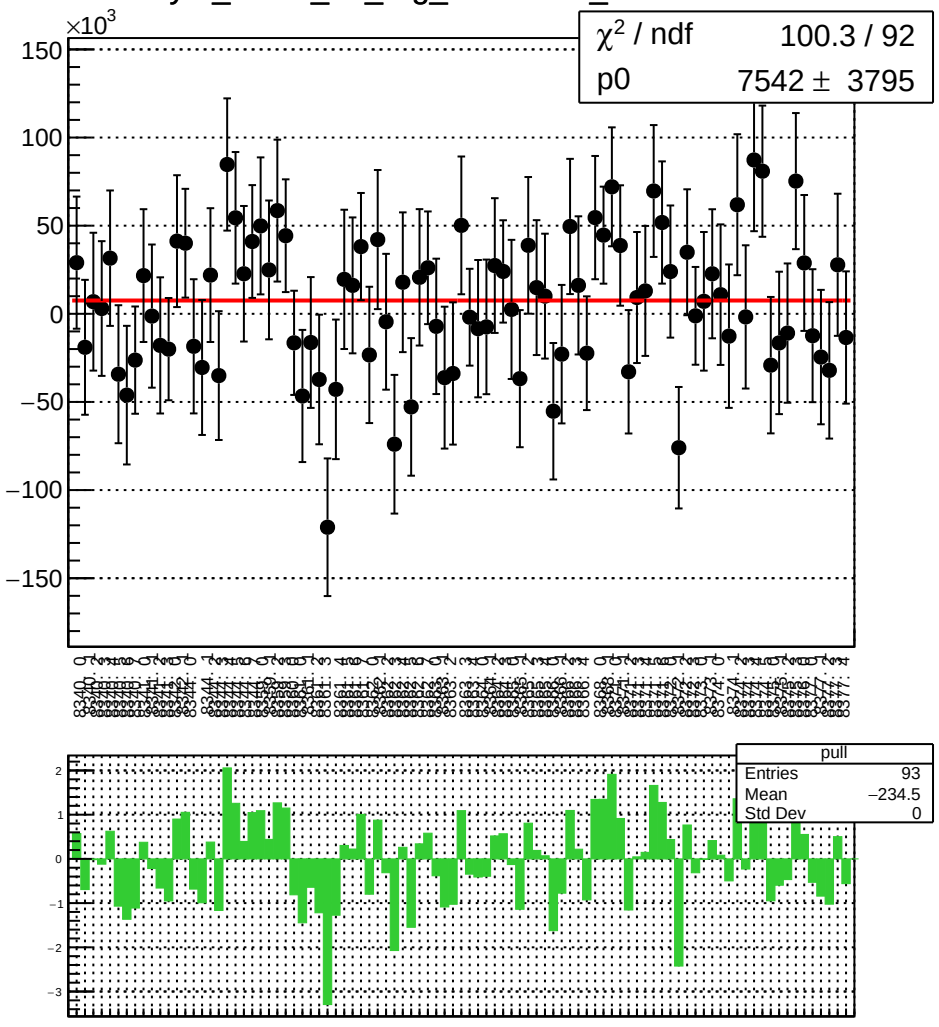

pull1D
Entries 93
Mean −0.06179
Std Dev 0.9475
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

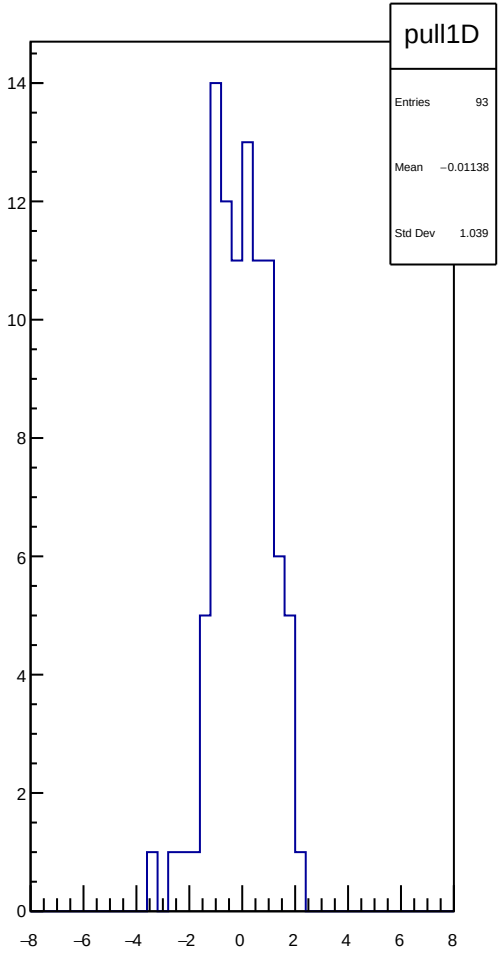

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.02e+05 / 92
p0 2.82e−10 ± 2.651e−13
2.5
2
1.5
1
0.5

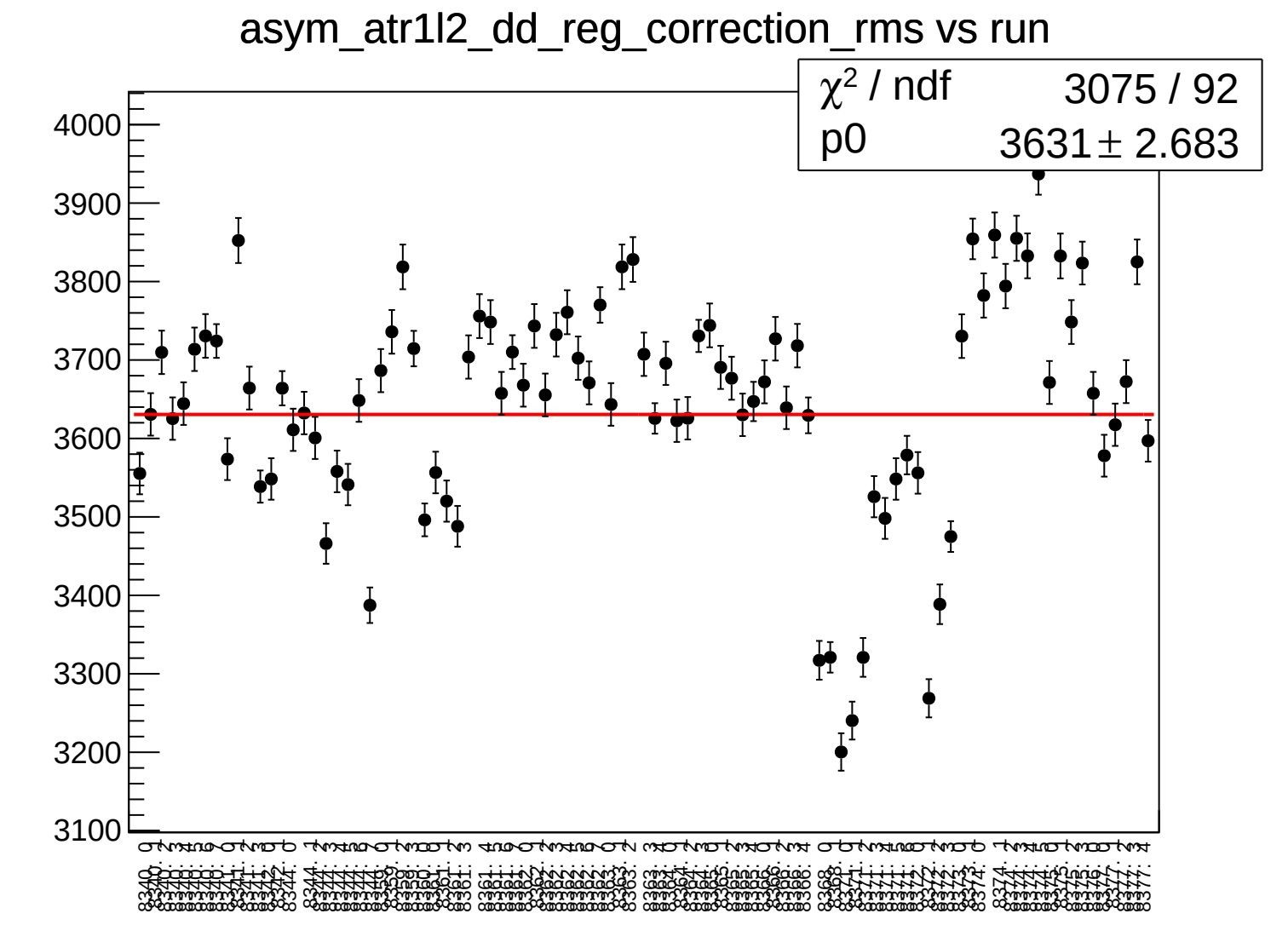

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 87.15 / 92
p0 51.19 ± 1887
pull
Entries 93
Mean 256.8
Std Dev 0

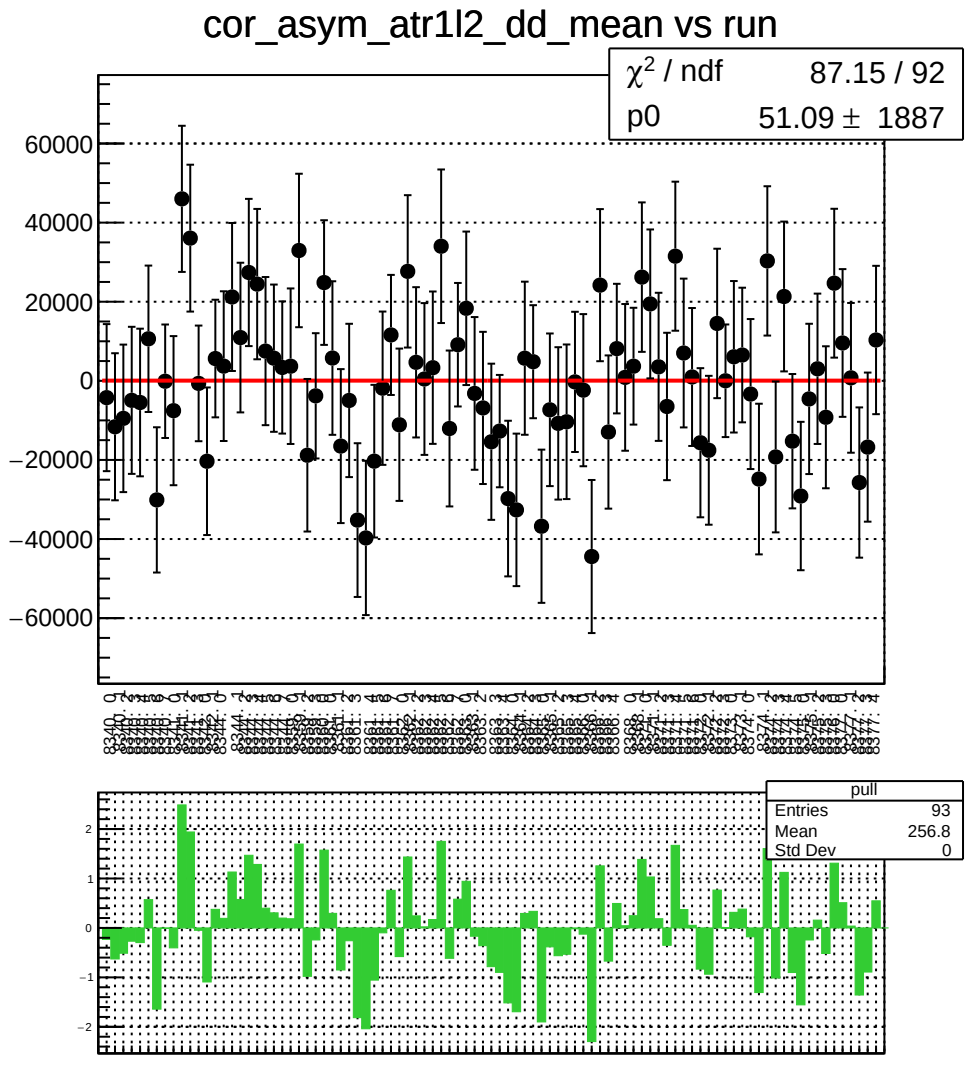

pull1D
Entries 93
Mean −0.01029
Std Dev 0.968

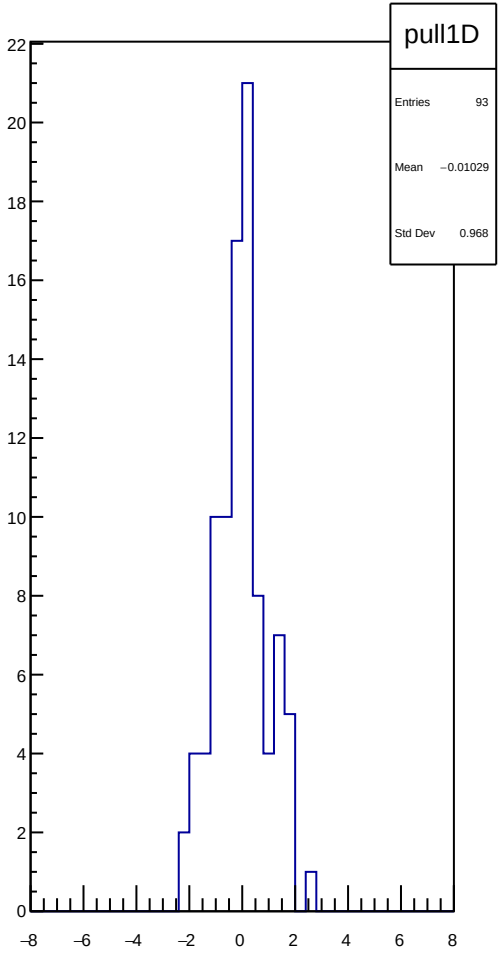

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 623.8 / 92
p0 1806 ± 1.334
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

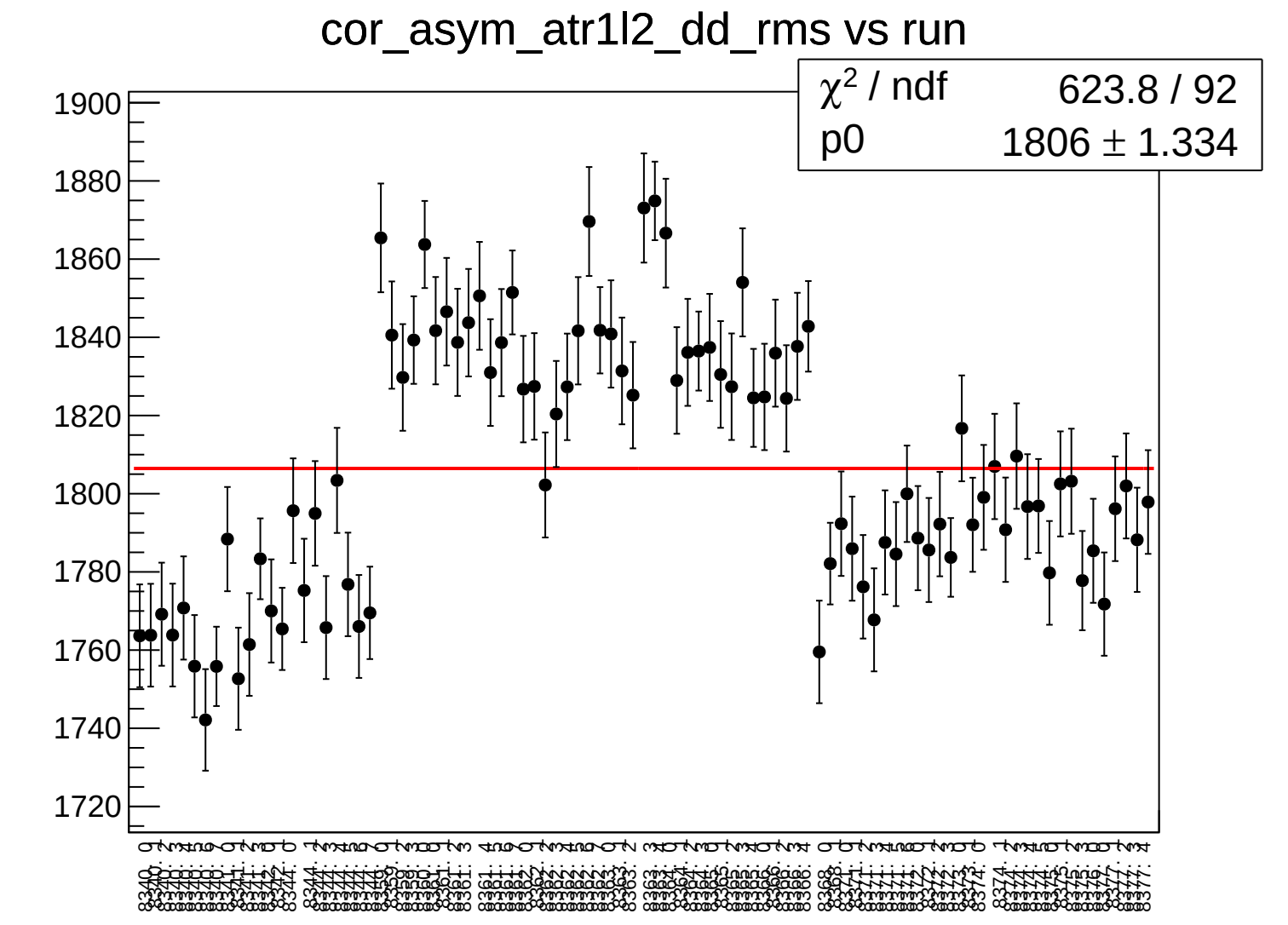

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.3 / 92
p0 7542 ± 3795
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −234.5
Std Dev 0
2
1
0
−1
−2
−3

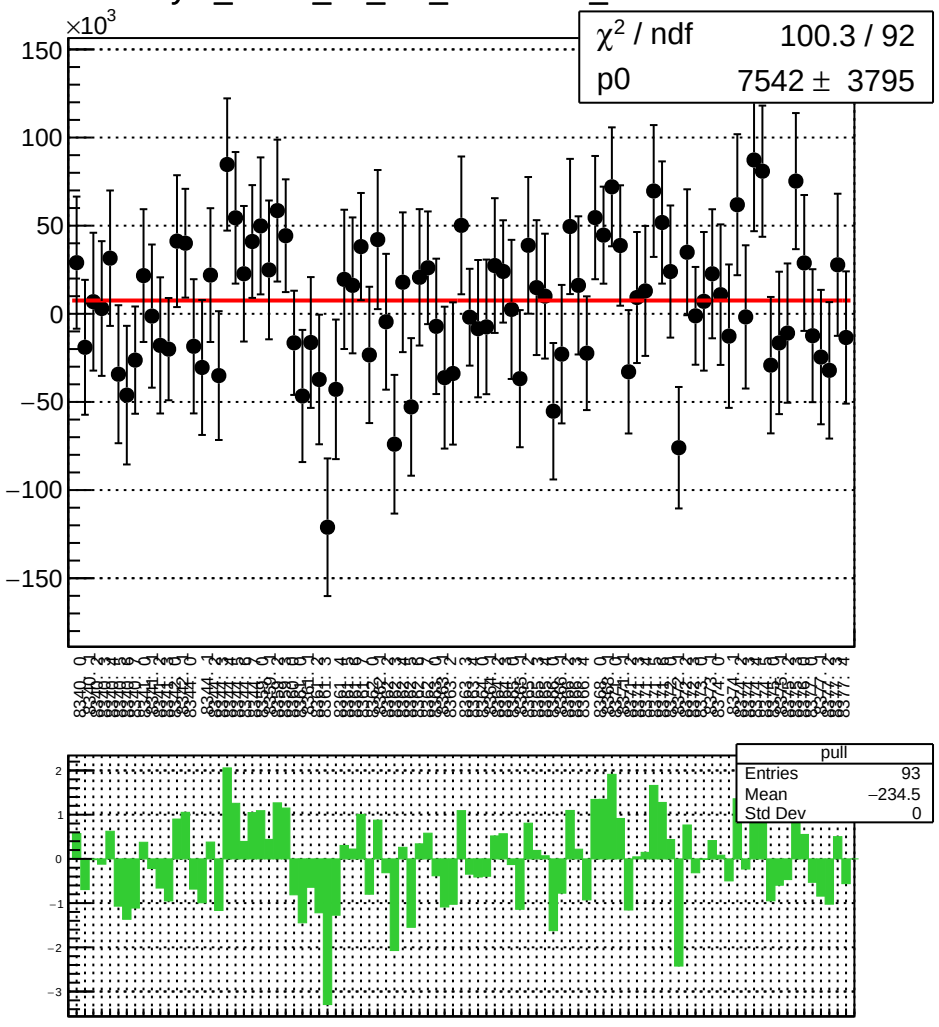

pull1D
Entries 93
Mean −0.01138
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

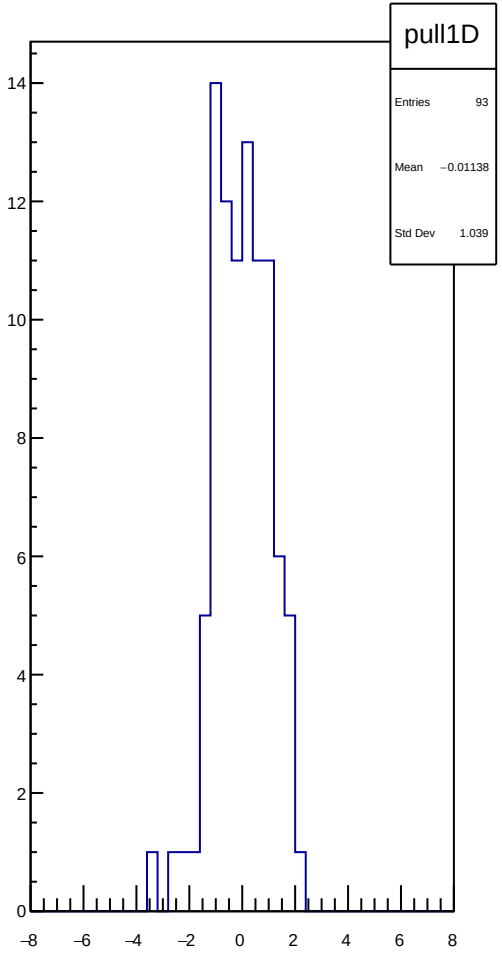

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3075 / 92
p0 3631 ± 2.683
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

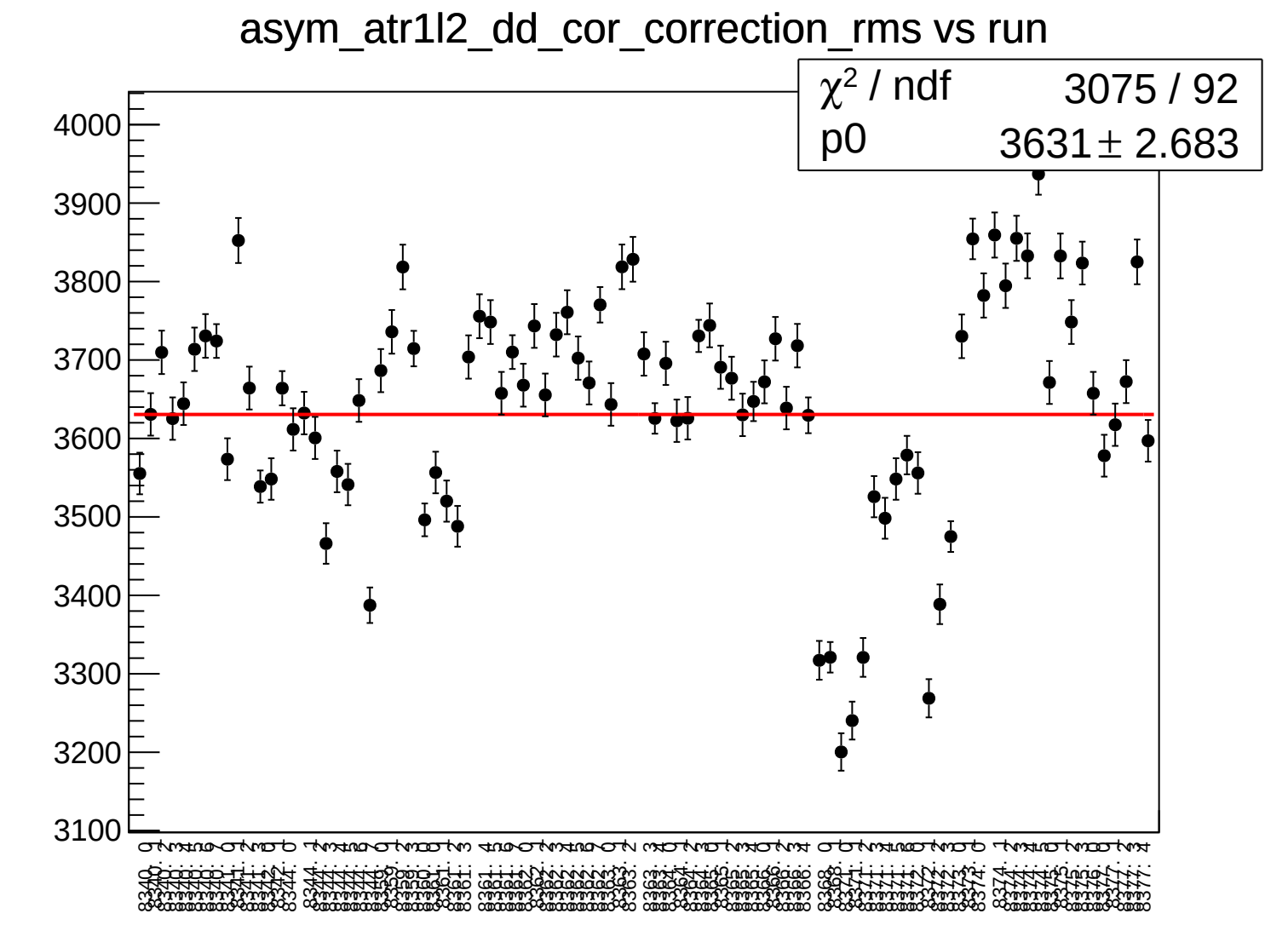

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.15 / 92
p0 51.09 ± 1887
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 256.8
Std Dev 0
2
1
0
−1
−2

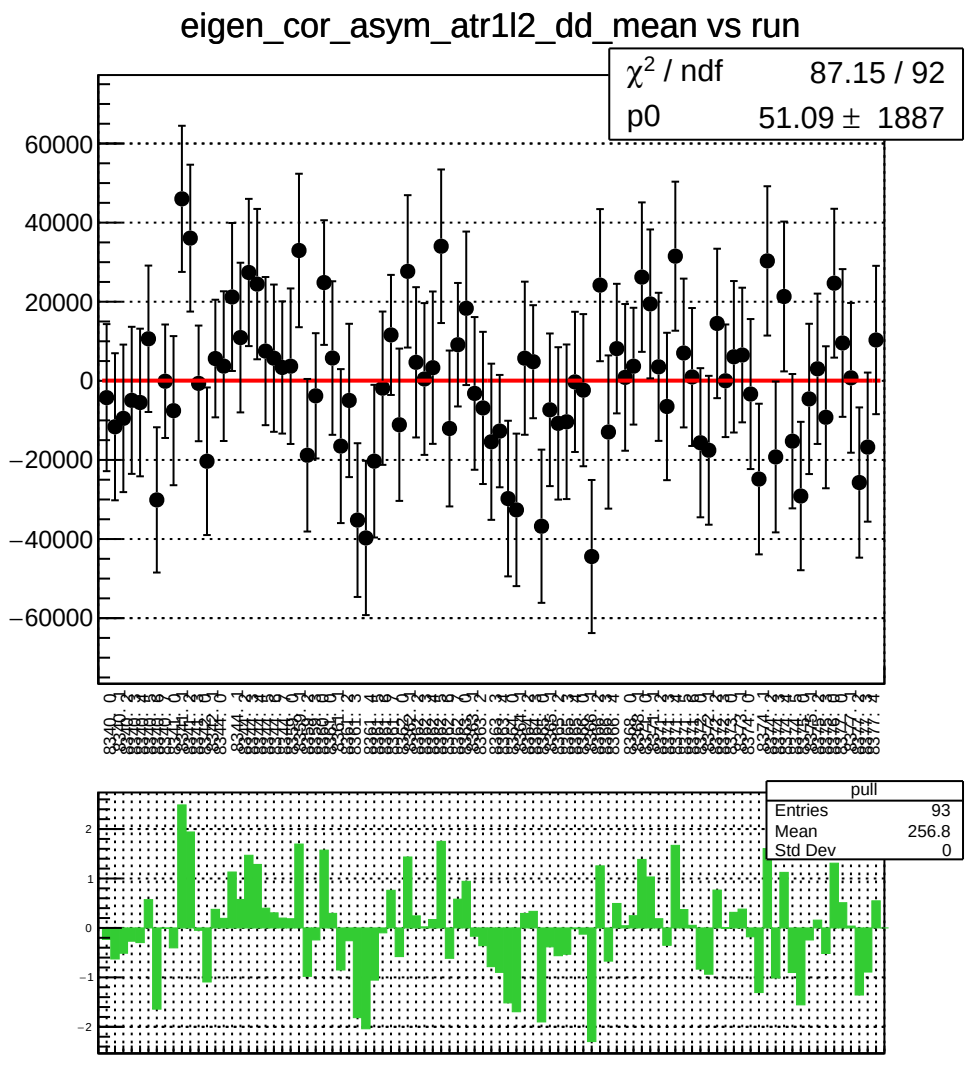

pull1D
Entries 93
Mean −0.01029
Std Dev 0.968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

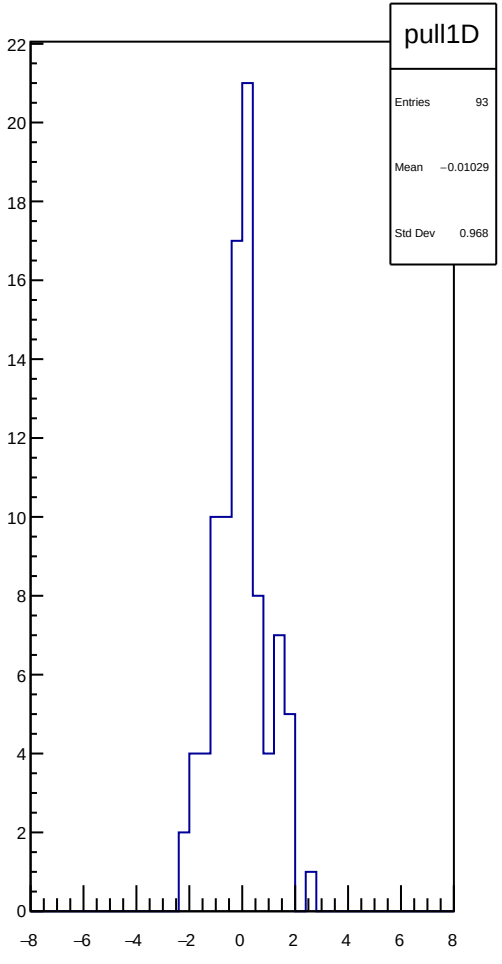

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 623.8 / 92
p0 1806 ± 1.334
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

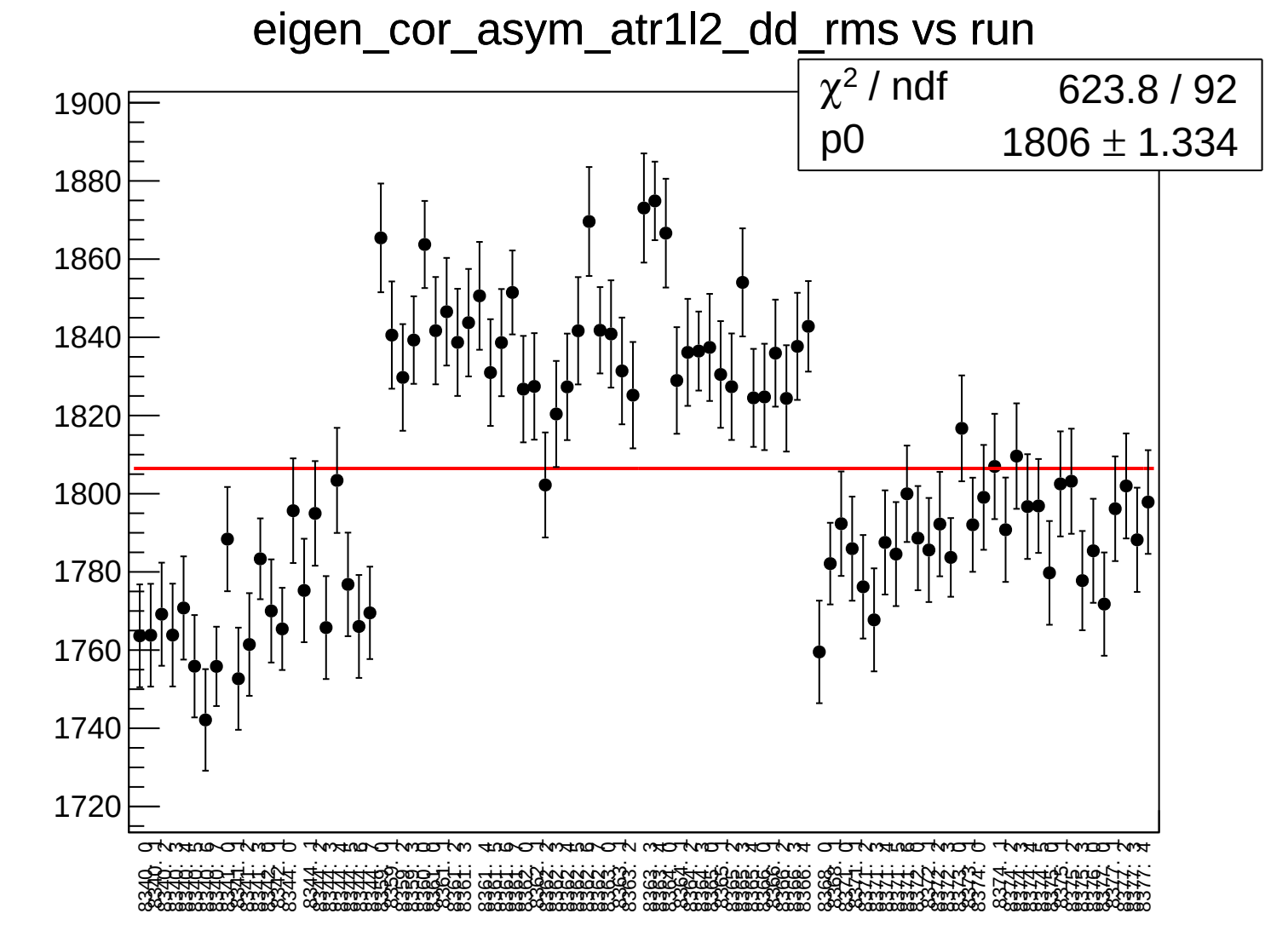

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 100.3 / 92
p0 7542 ± 3795
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −234.5
Std Dev 0
2
1
0
−1
−2
−3

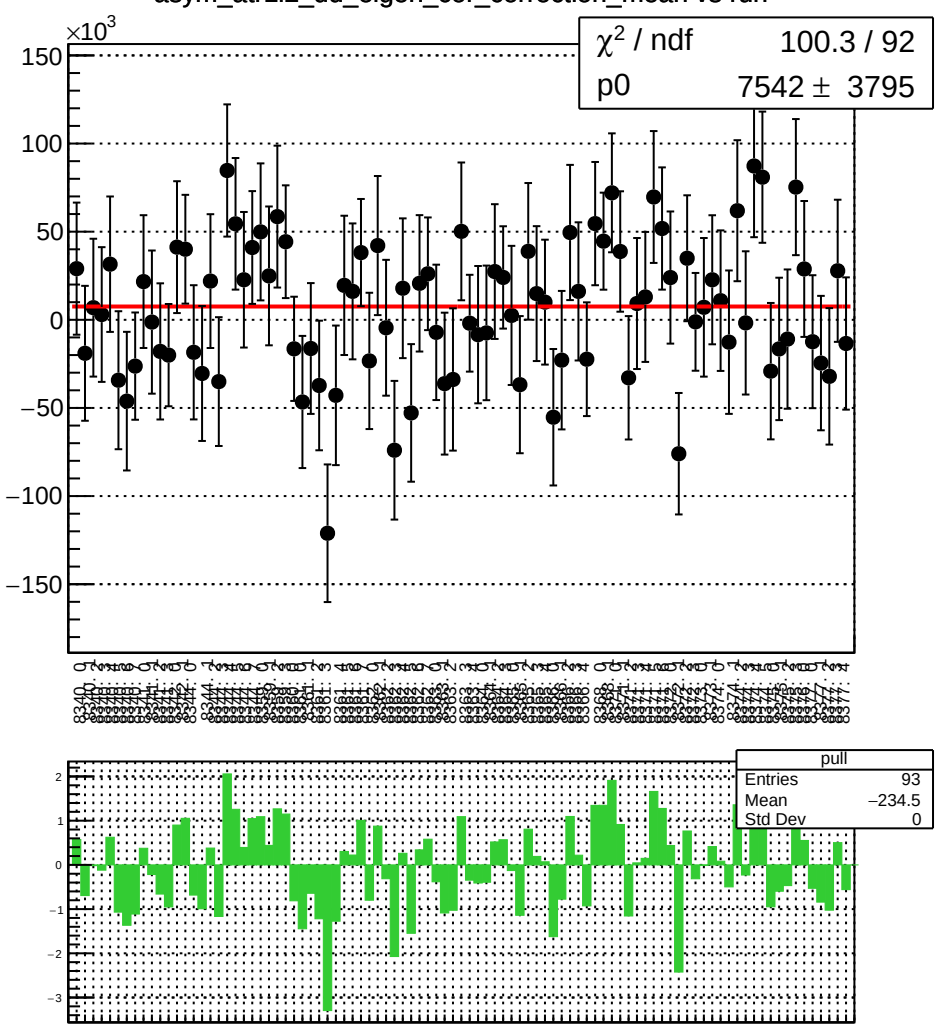

pull1D
Entries 93
Mean −0.01138
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

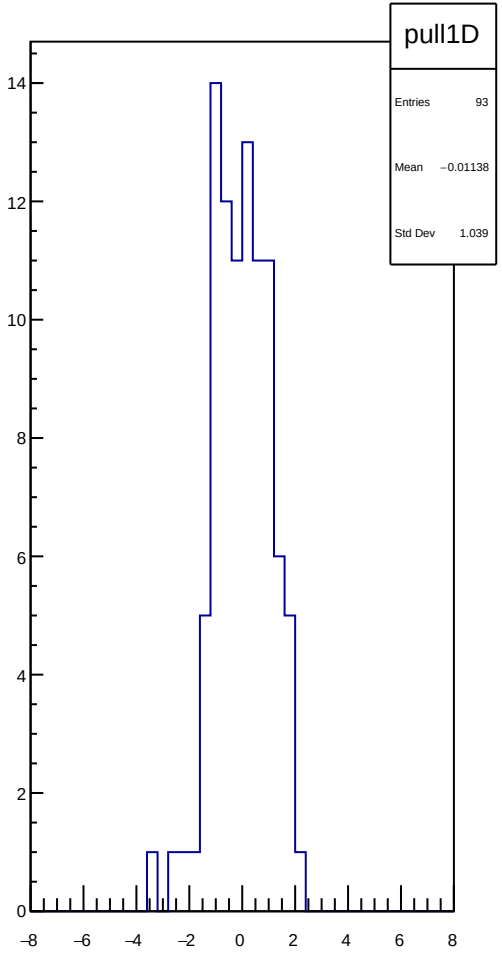

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3075 / 92
p0 3631 ± 2.683
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

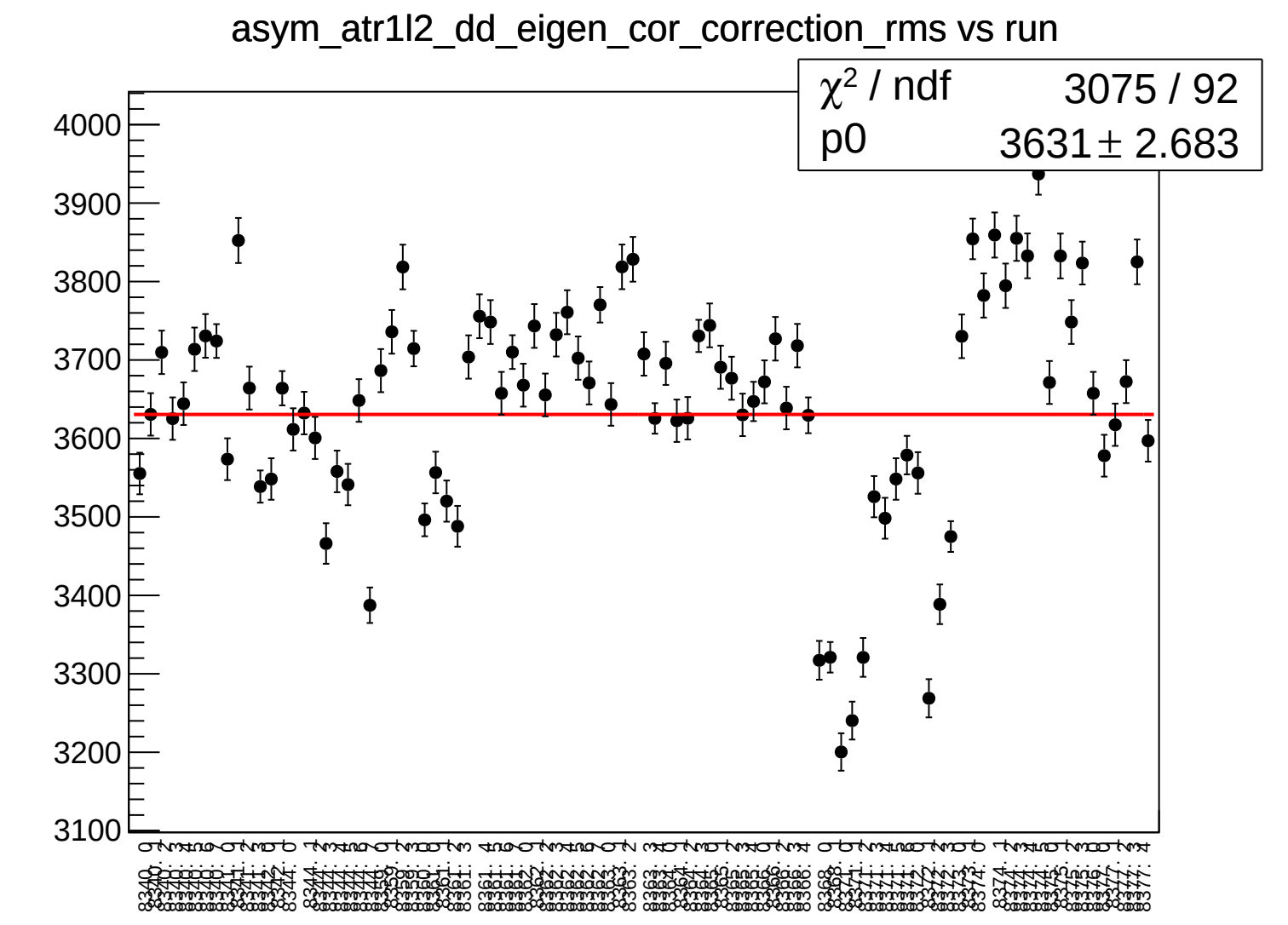

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 87.15 / 92
p0 51.09 ± 1887
pull
Entries 93
Mean 256.8
Std Dev 0

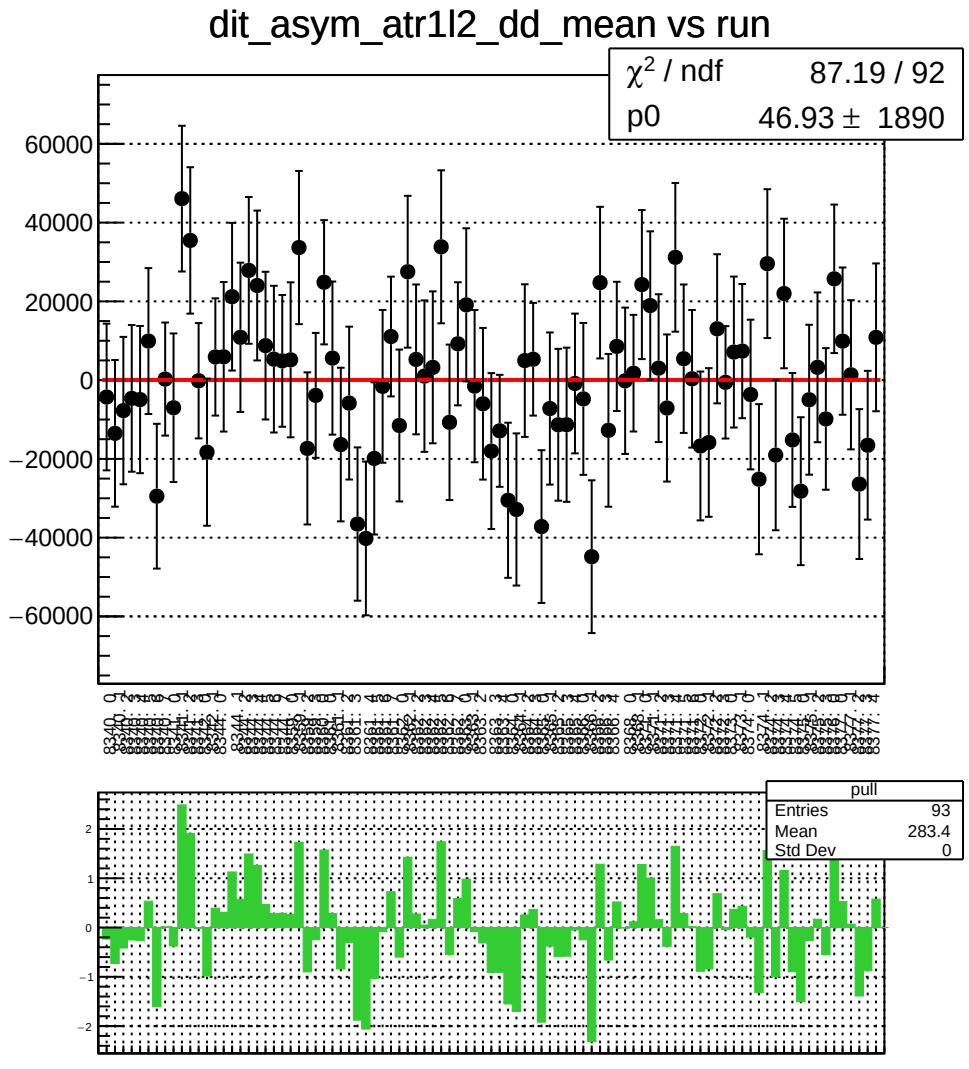

pull1D
Entries 93
Mean −0.01029
Std Dev 0.968

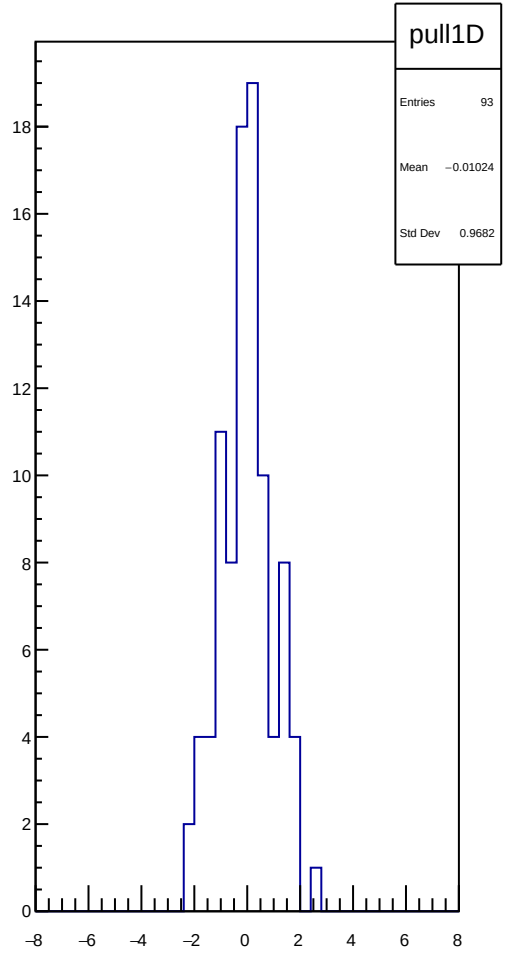

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 623.8 / 92
p0 1806 ± 1.334
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

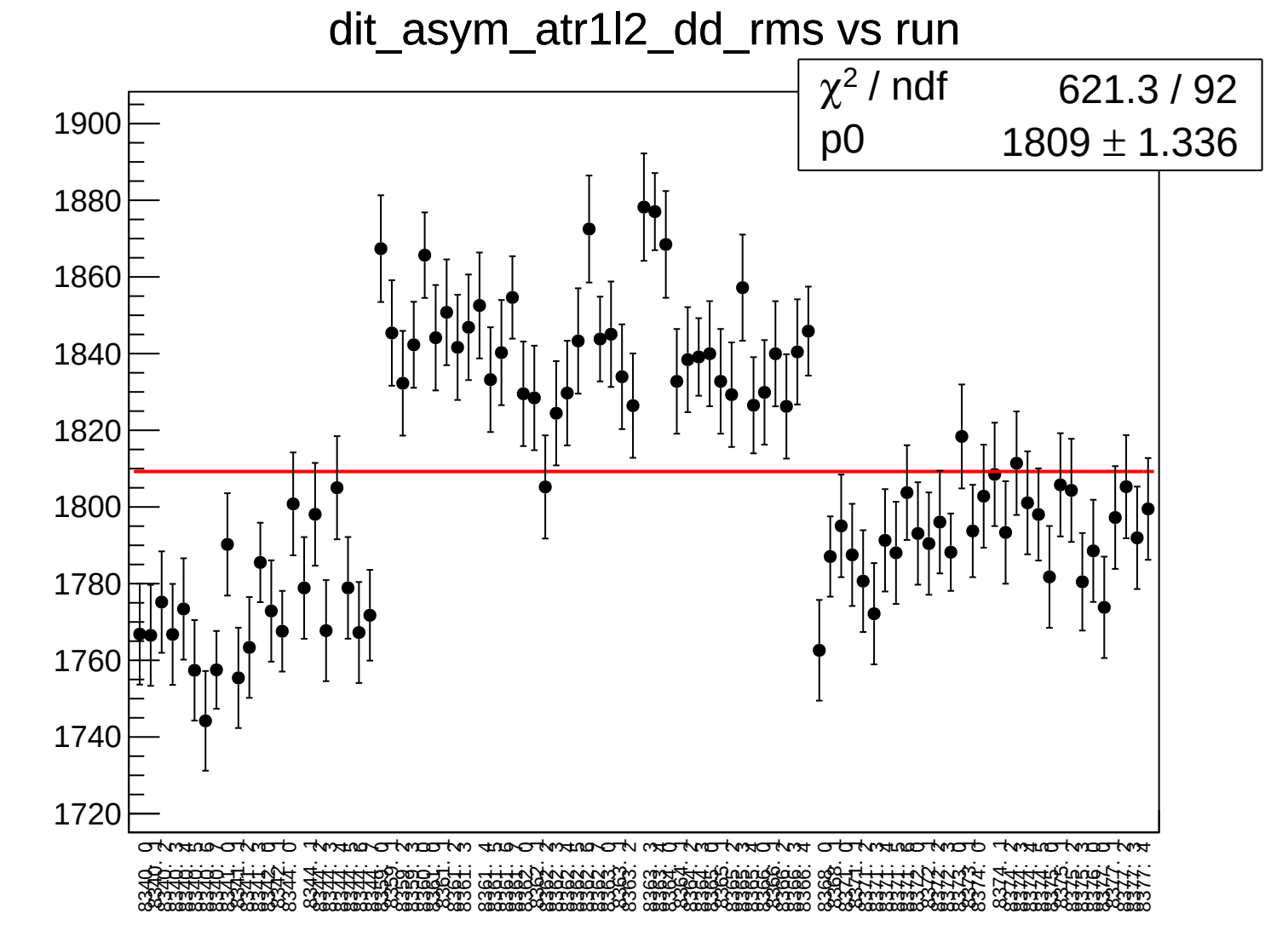

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.3 / 92
p0 7542 ± 3795
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −234.5
Std Dev 0
2
1
0
−1
−2
−3

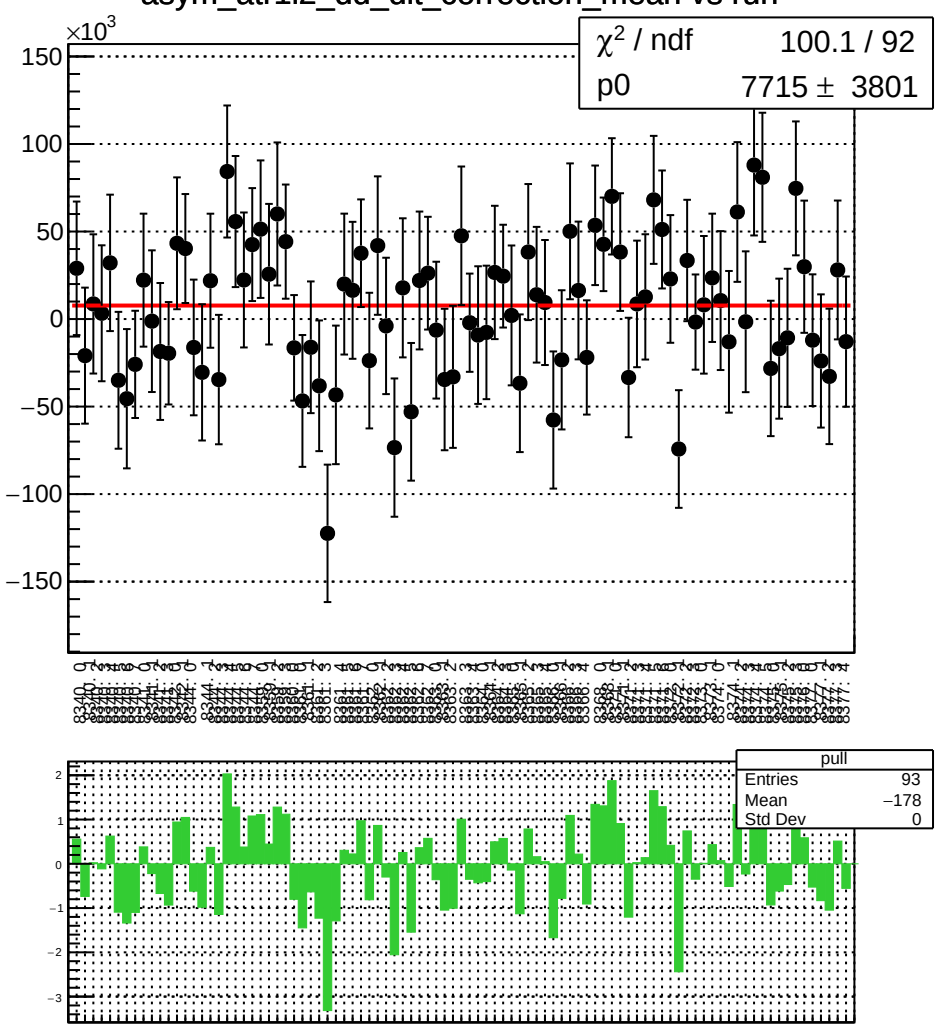

pull1D
Entries 93
Mean −0.01138
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

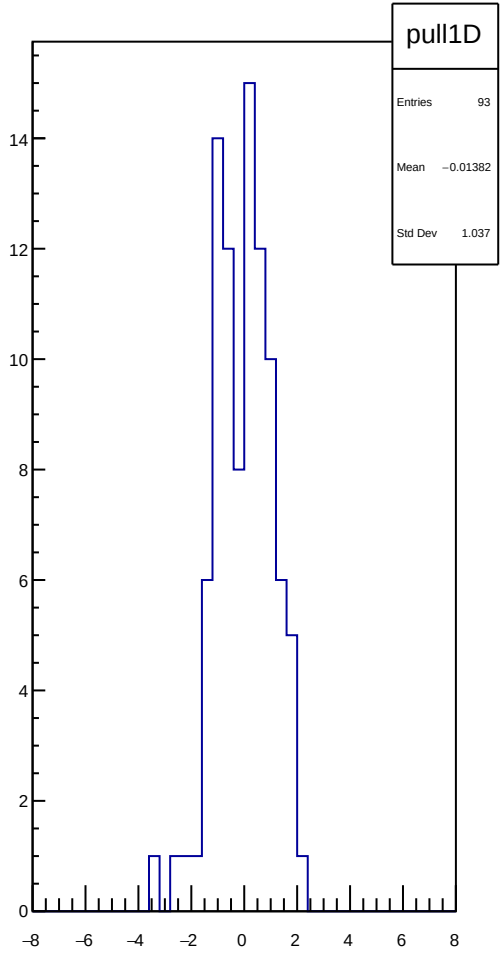

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3075 / 92
p0 3631 ± 2.683
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

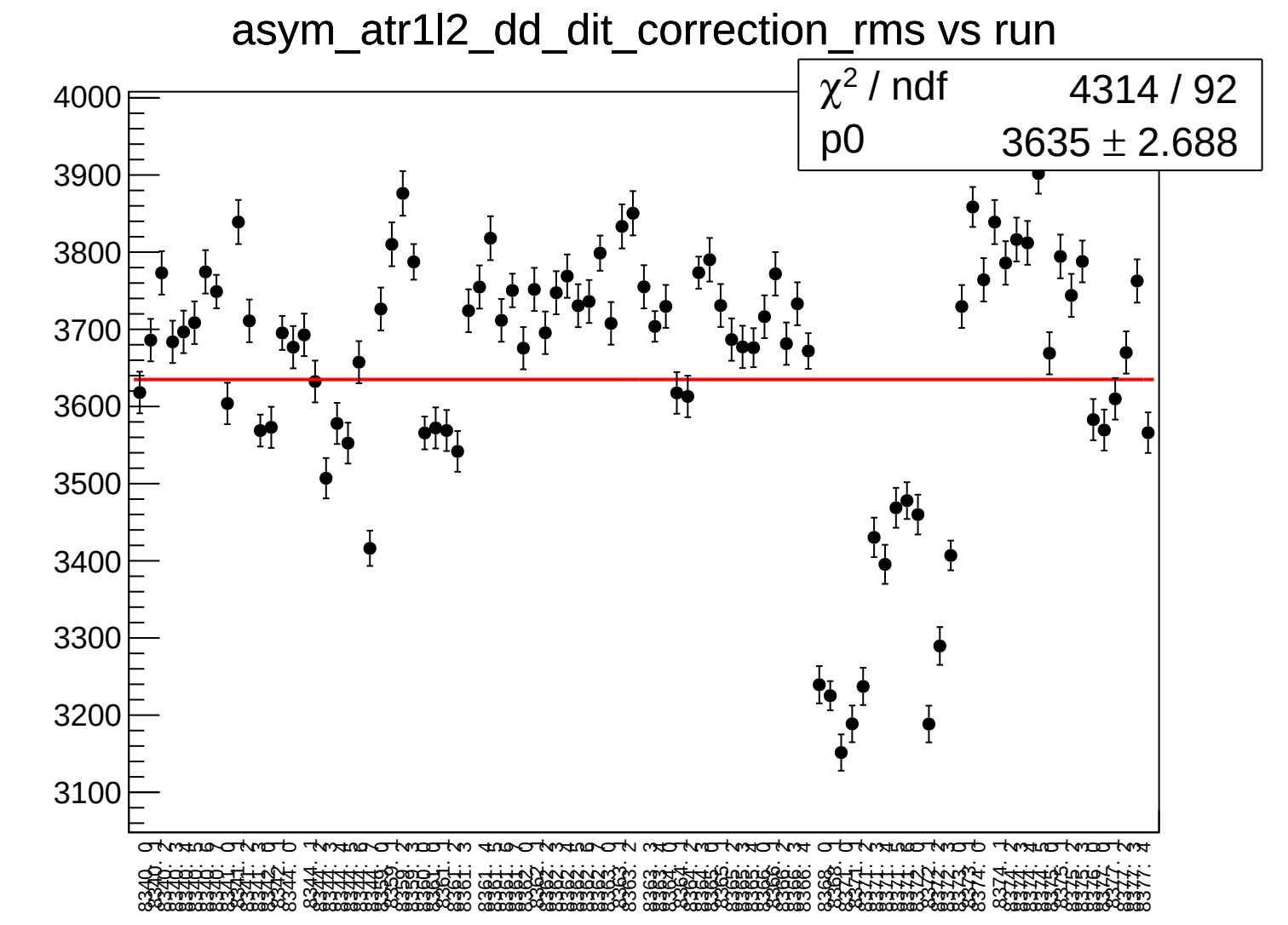

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 87.19 / 92
p0 46.93 ± 1890
pull
Entries 93
Mean 283.4
Std Dev 0

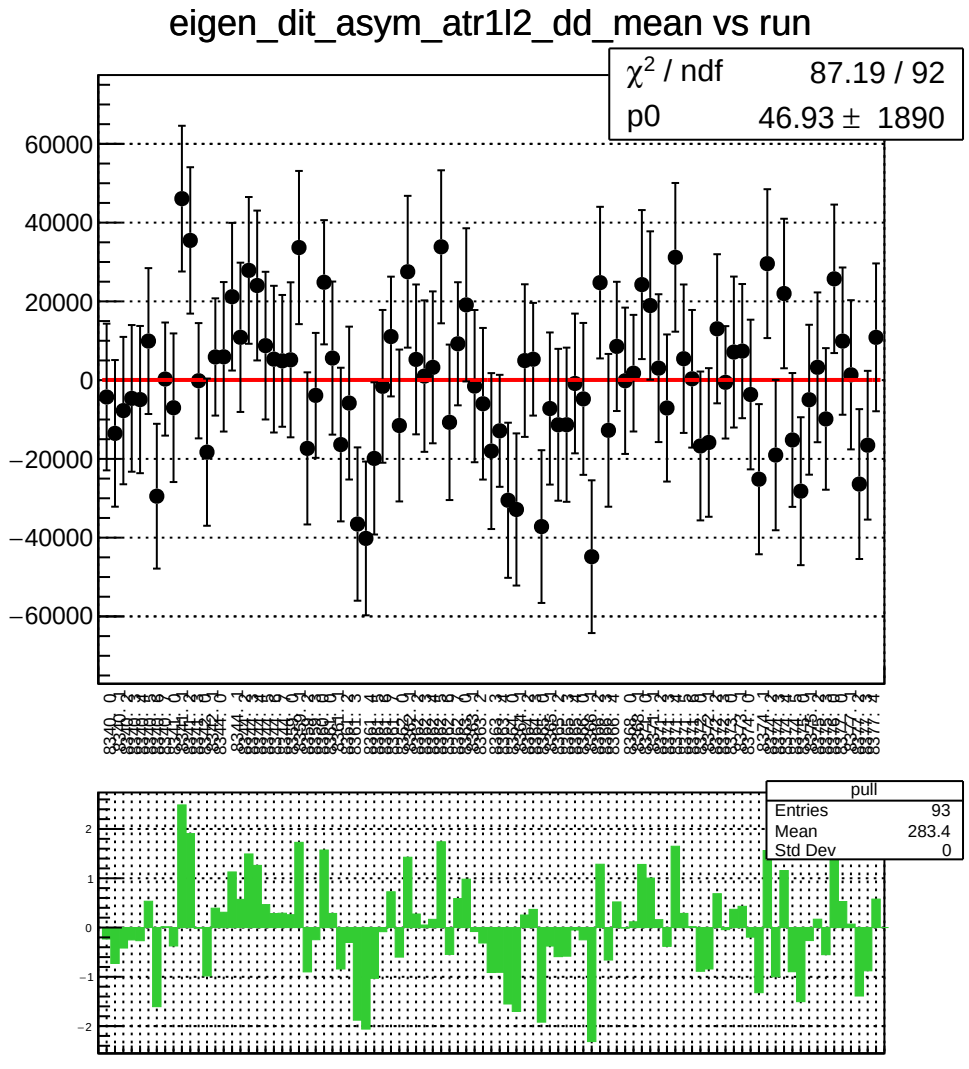

pull1D
Entries 93
Mean −0.01024
Std Dev 0.9682

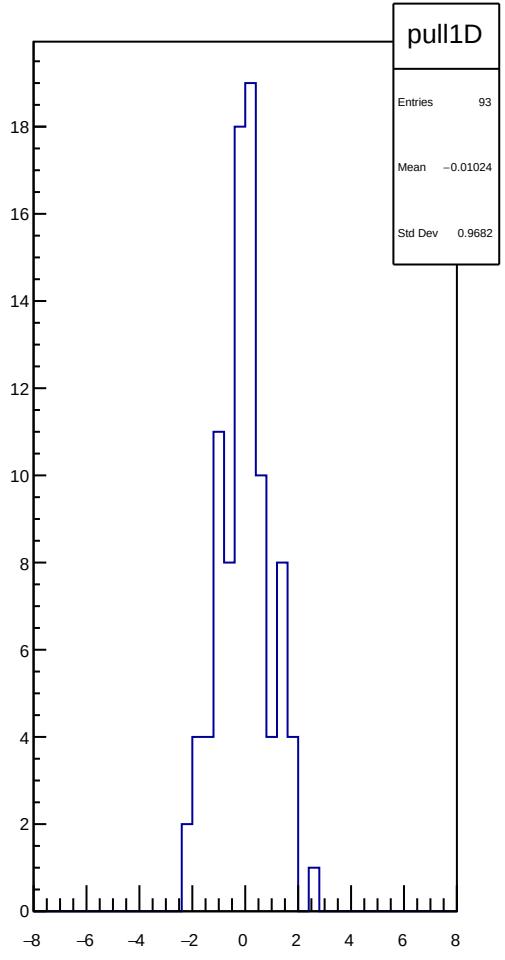

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 621.3 / 92
p0 1809 ± 1.336
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

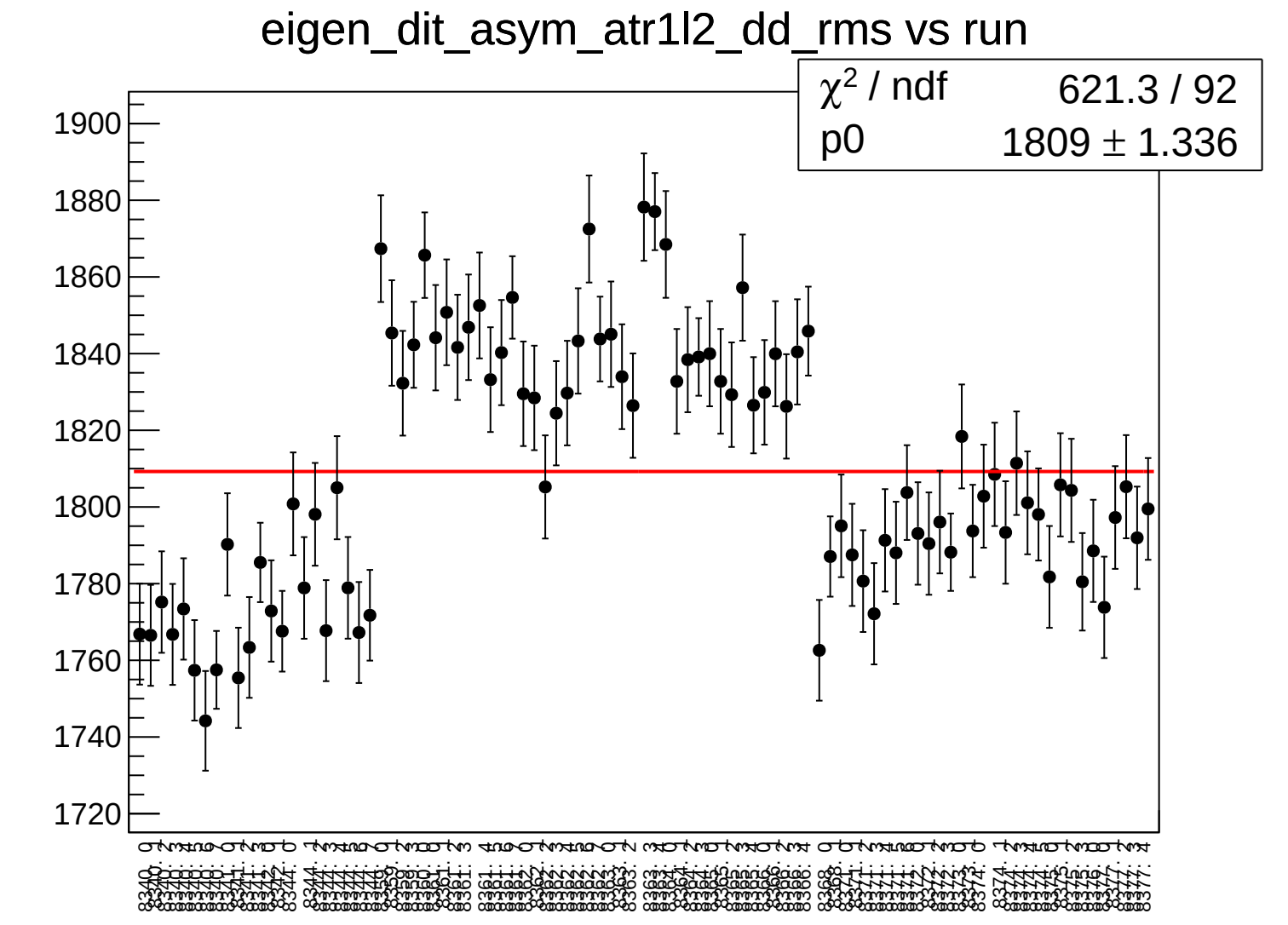

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 7715 ± 3801
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −178
Std Dev 0
2
1
0
−1
−2
−3

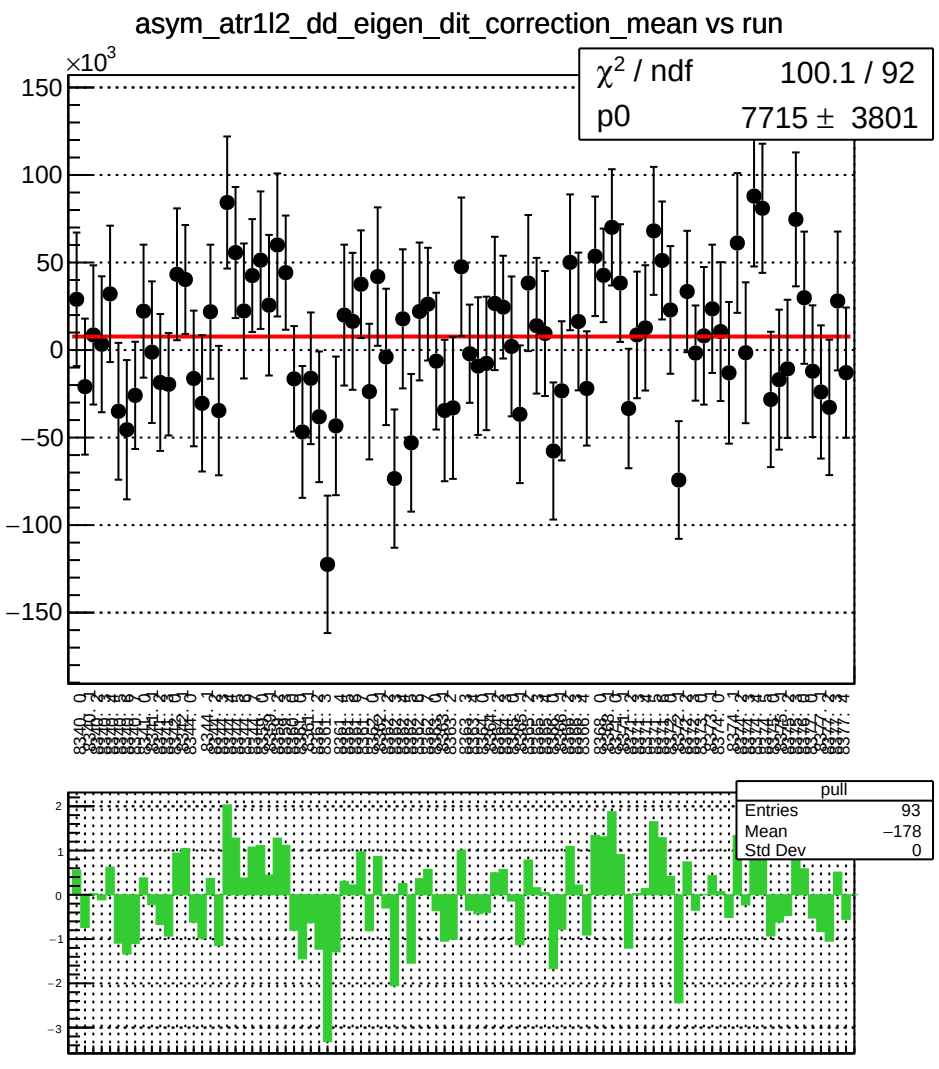

pull1D
Entries 93
Mean −0.01382
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

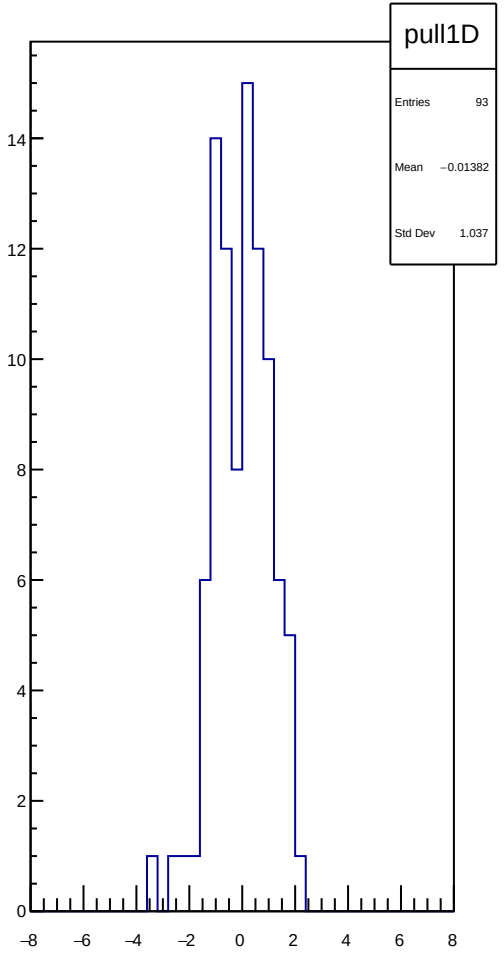

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 4314 / 92
p0 3635 ± 2.688
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

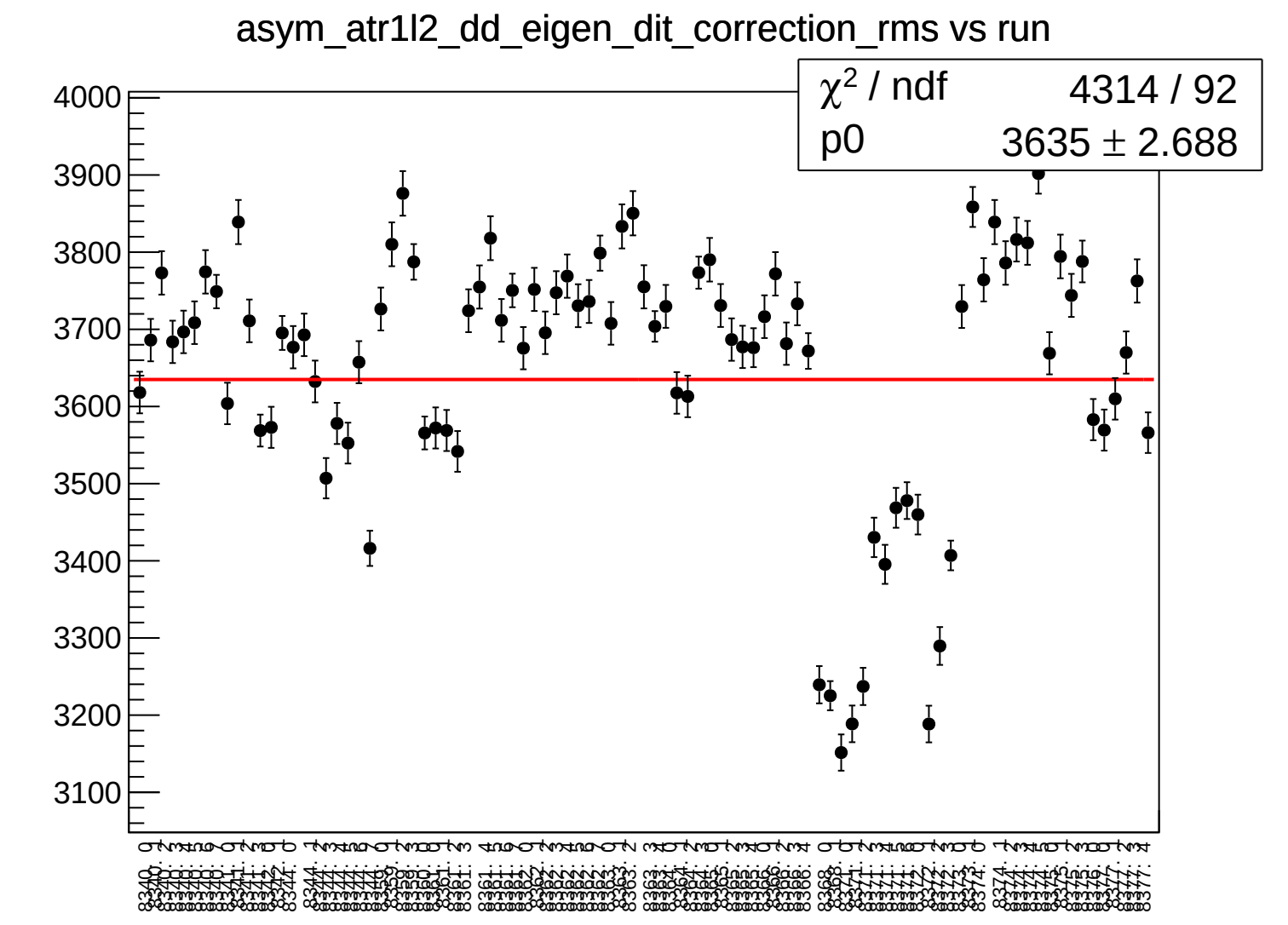

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 87.19 / 92
p0 46.93 ± 1890
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 283.4
Std Dev 0
2
1
0
−1
−2

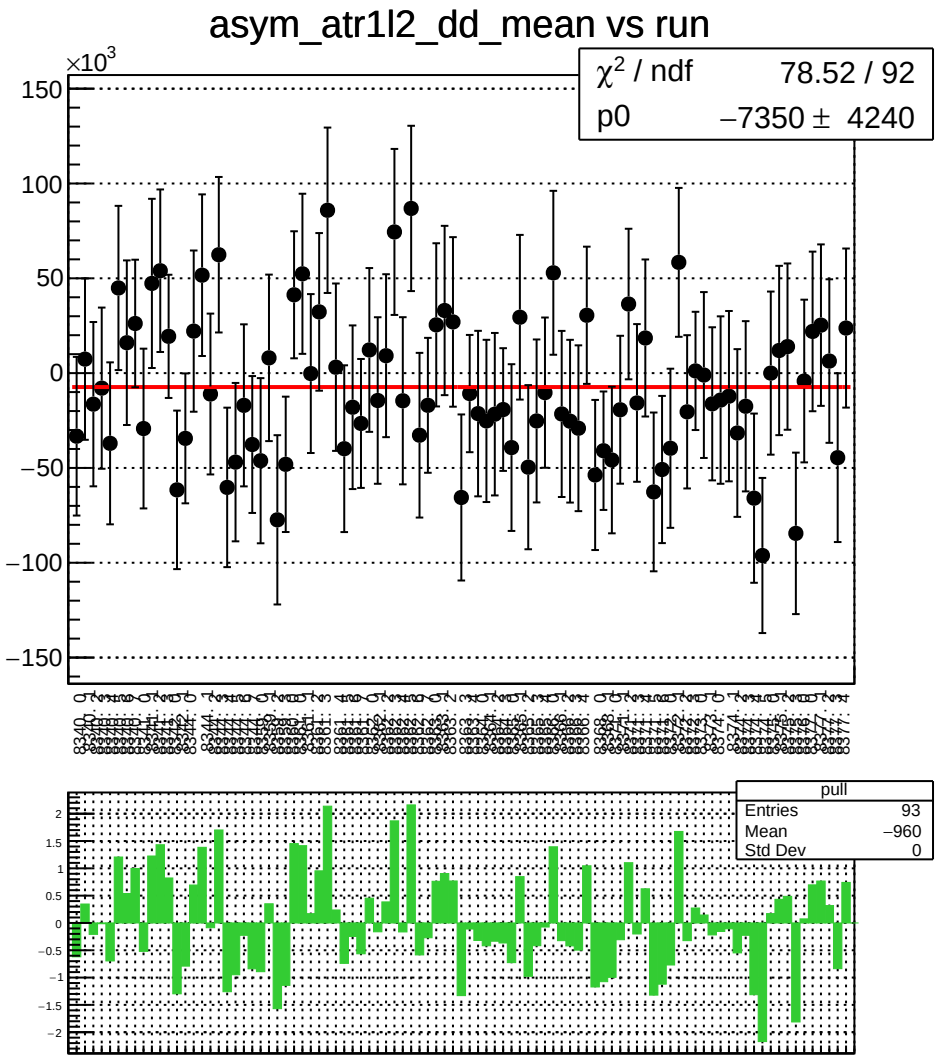

pull1D
Entries 93
Mean −0.01024
Std Dev 0.9682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

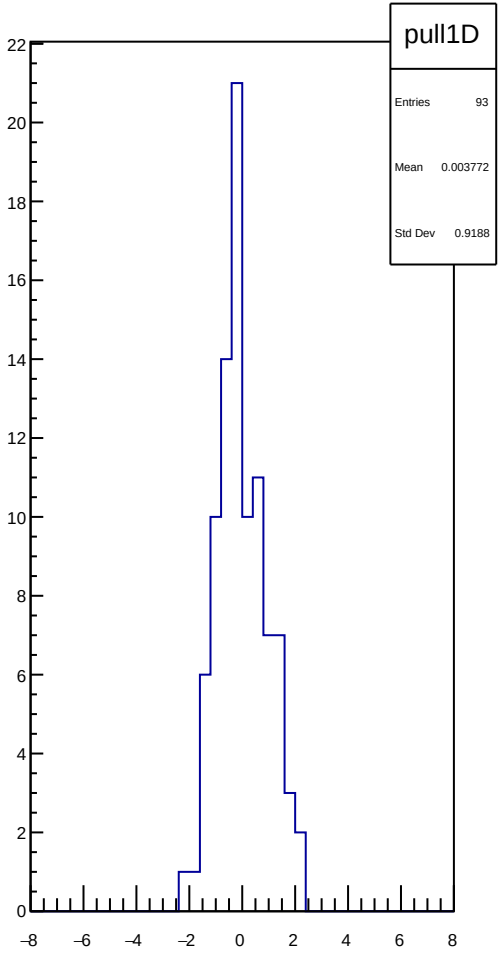

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 621.3 / 92
p0 1809 ± 1.336
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

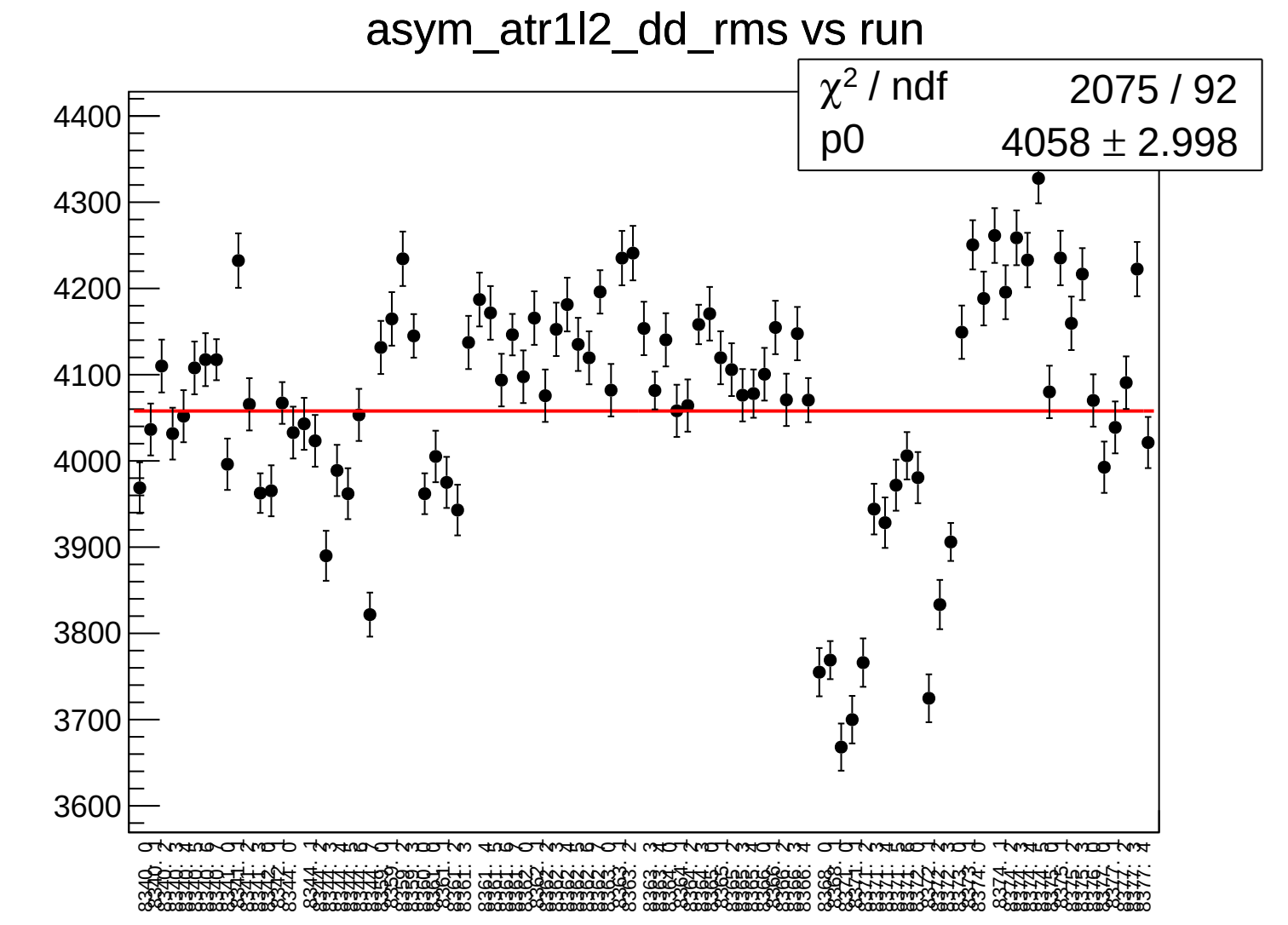

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 7715 ± 3801
pull
Entries 93
Mean −178
Std Dev 0

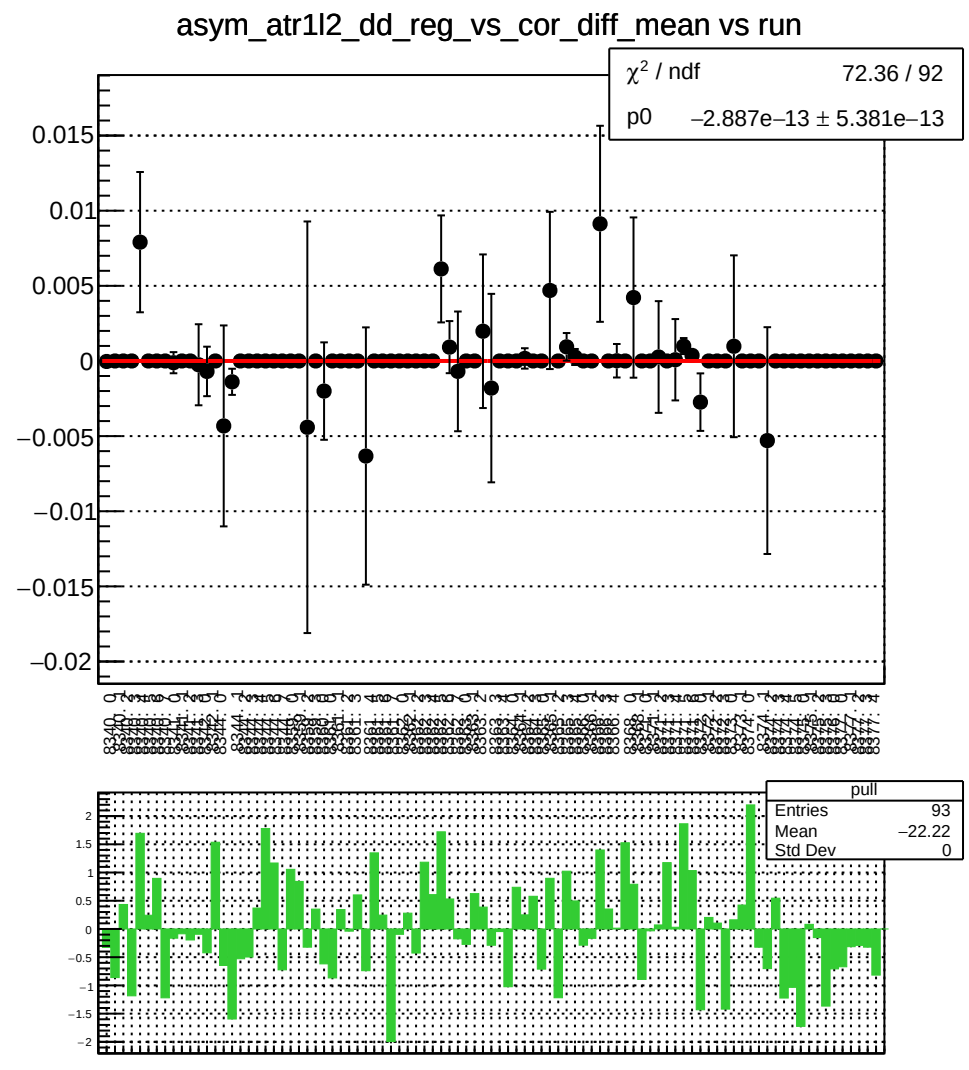

pull1D
Entries 93
Mean −0.01382
Std Dev 1.037

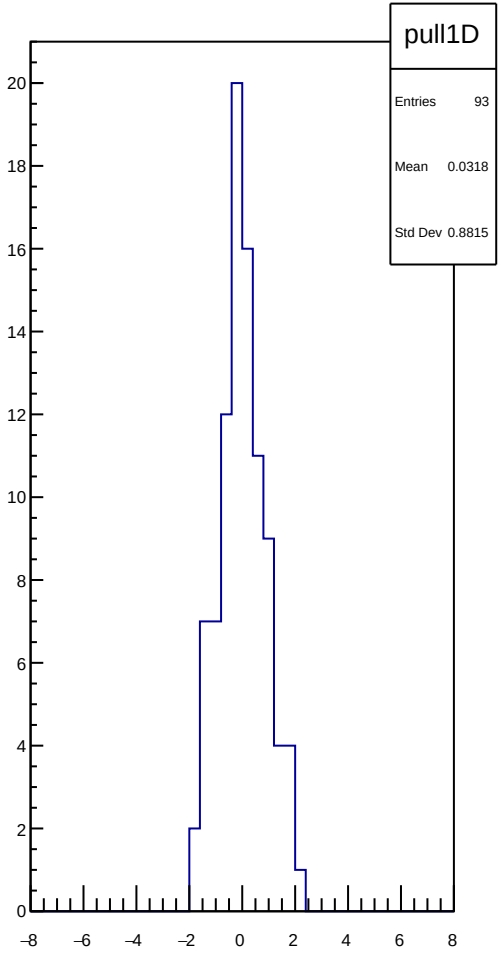

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4314 / 92
p0 3635 ± 2.688
4000
3900
3800
3700
3600
3500
3400
3300
3200
3100

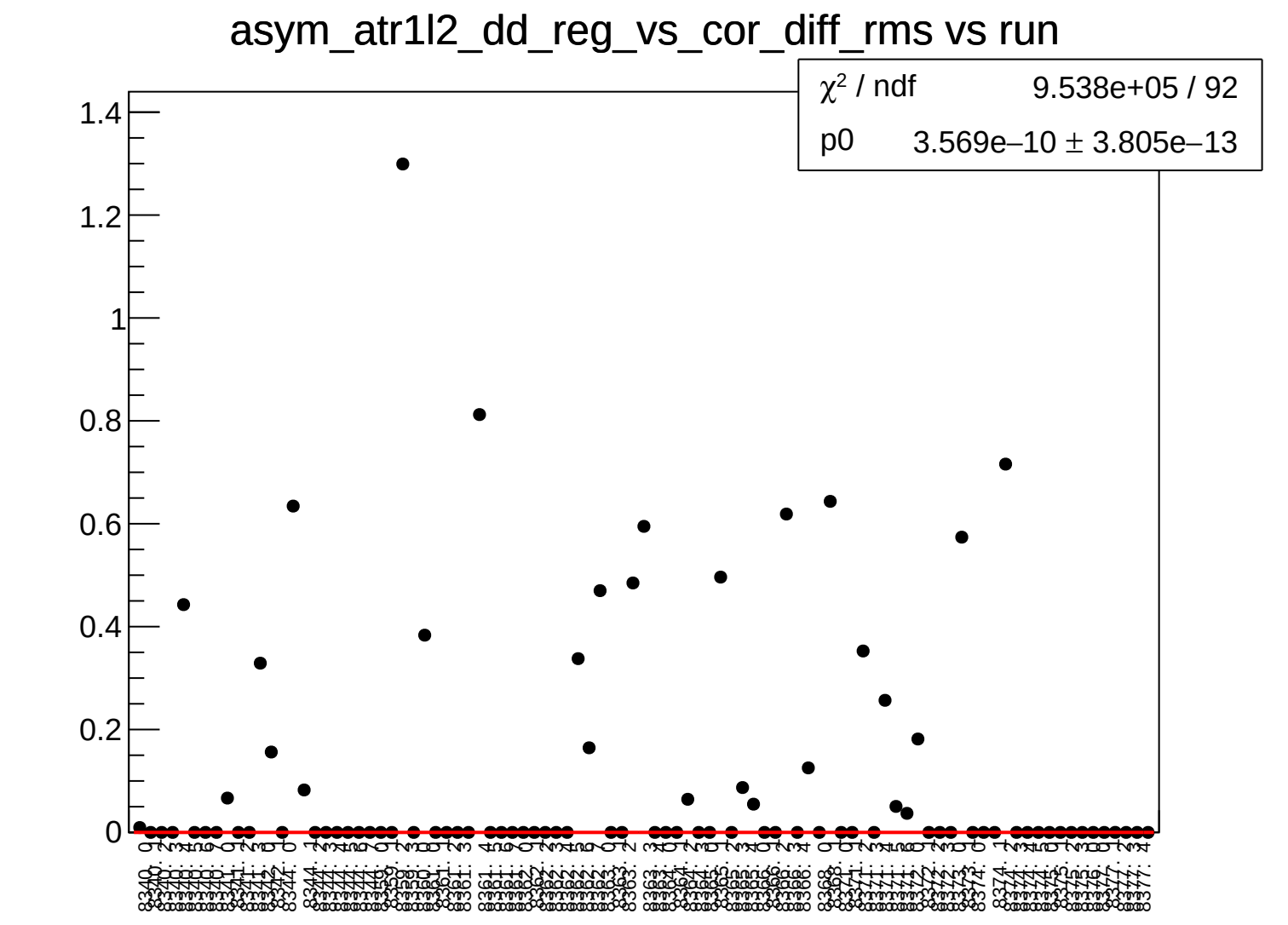

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 78.52 / 92
p0 −7350 ± 4240
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −960
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

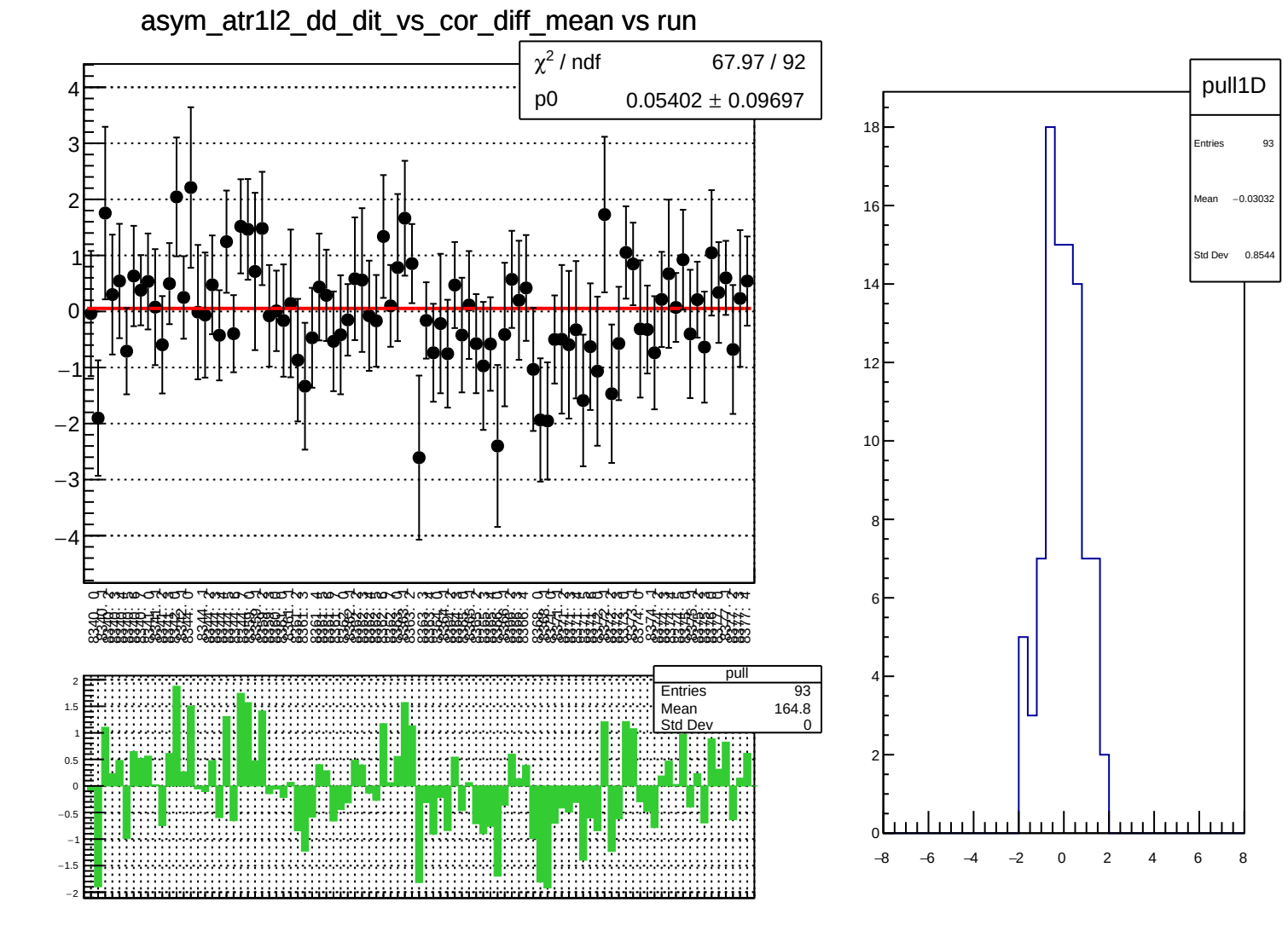

pull1D
Entries 93
Mean 0.003772
Std Dev 0.9188
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

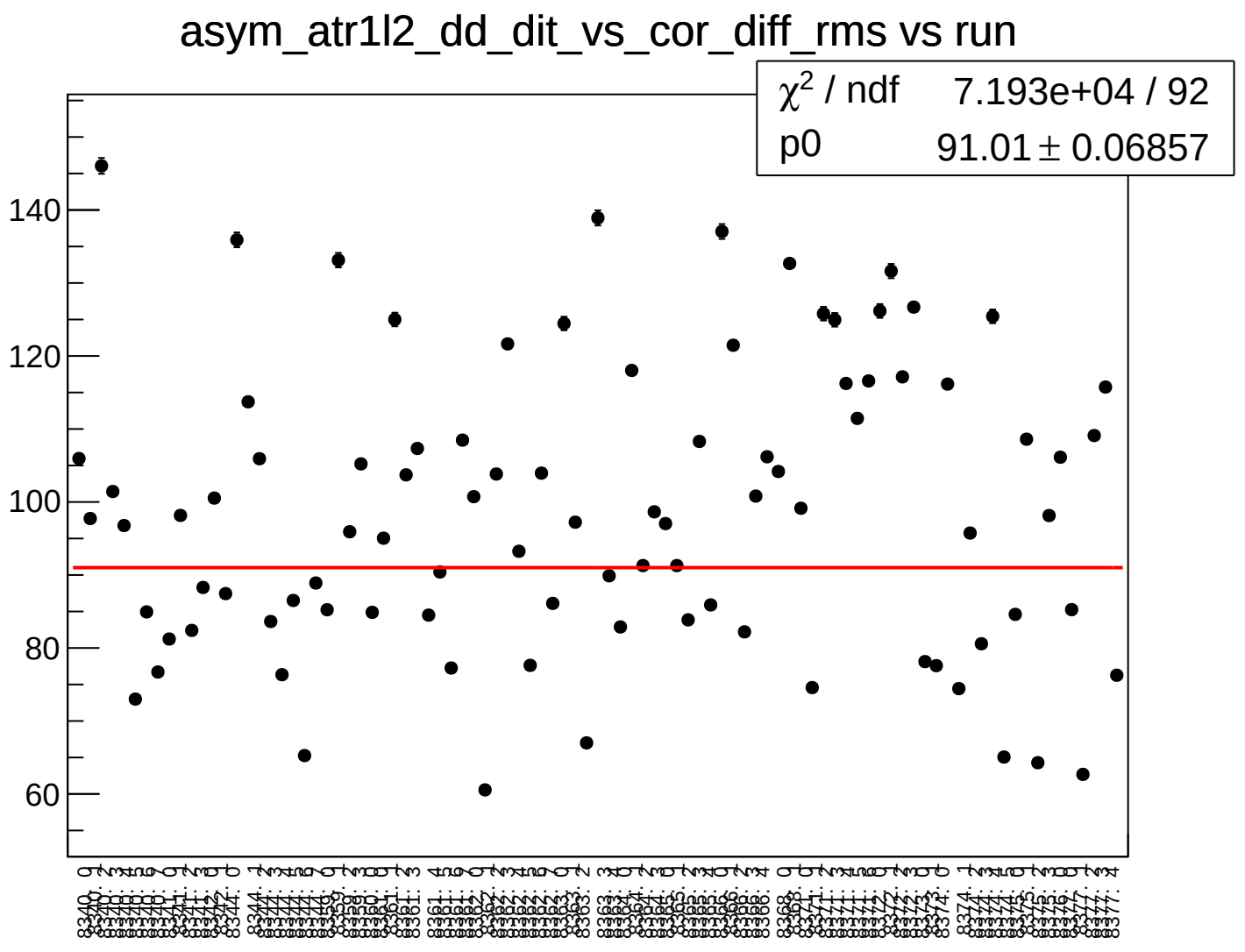

asym_atr1l2_dd_rms vs run
χ² / ndf 2075 / 92
p0 4058 ± 2.998
4400
4300
4200
4100
4000
3900
3800
3700
3600

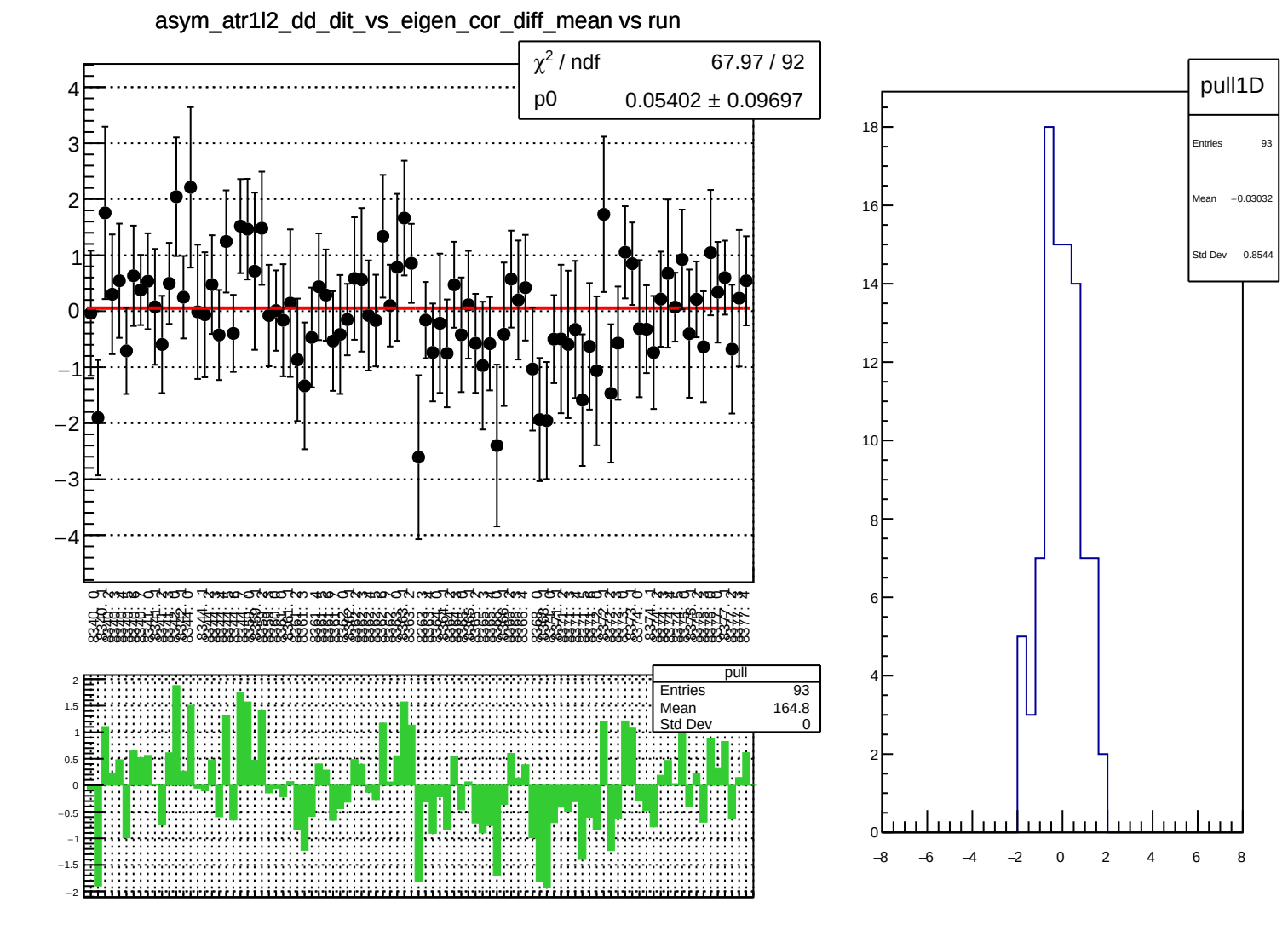

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 72.36 / 92
p0 −2.887e−13 ± 5.381e−13
pull
Entries 93
Mean −22.22
Std Dev 0

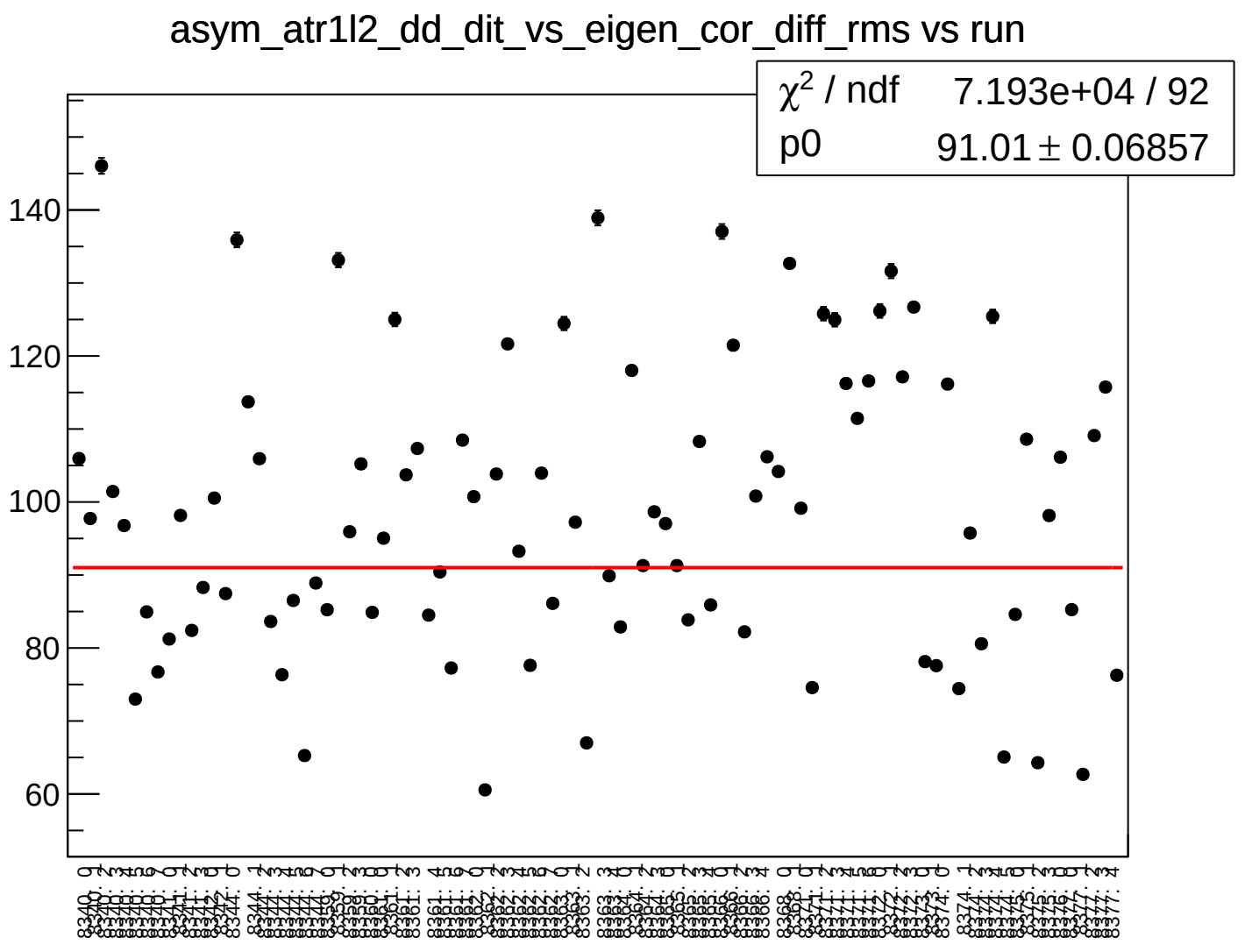

pull1D
Entries 93
Mean 0.0318
Std Dev 0.8815

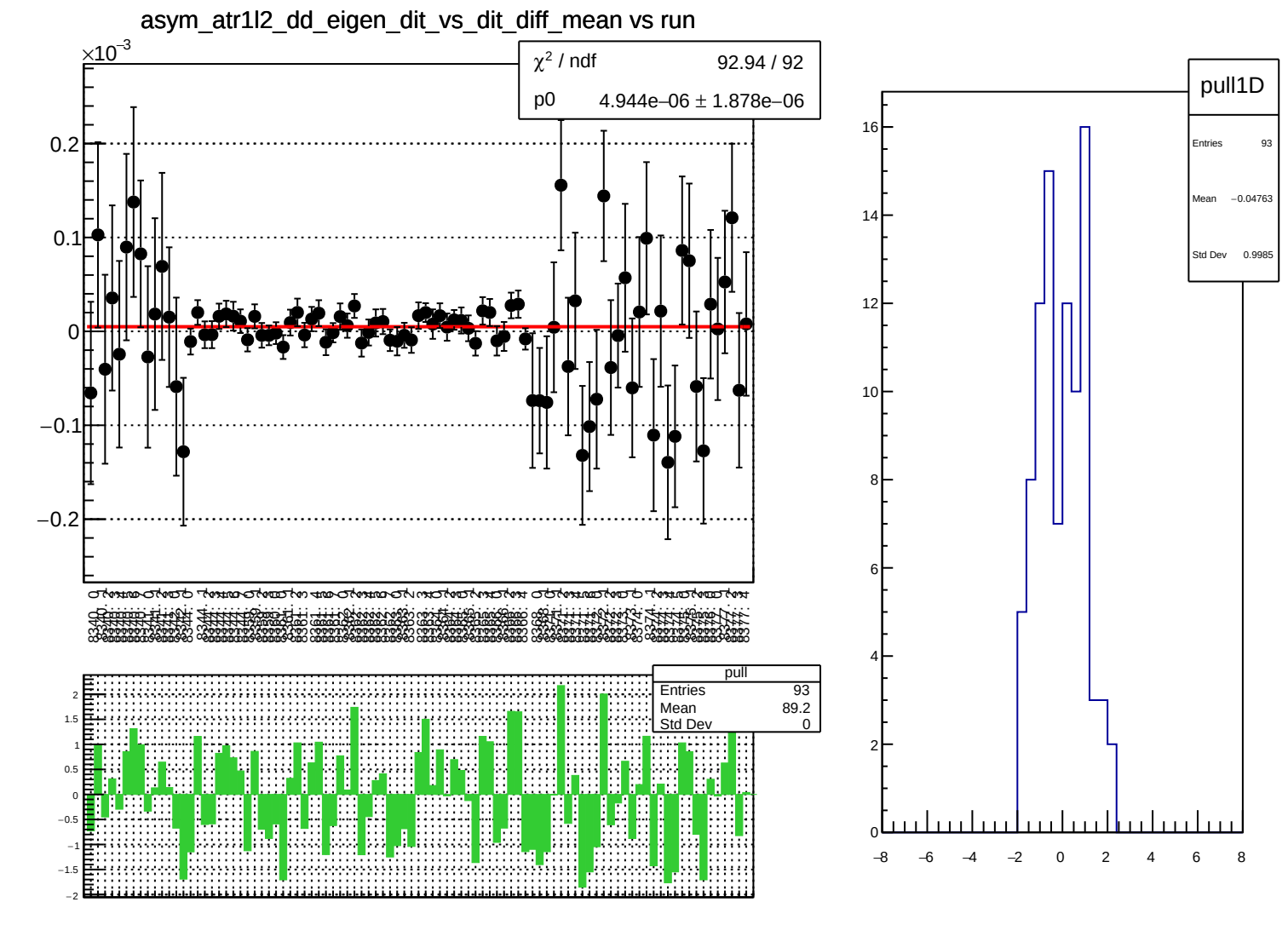

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.538e+05 / 92
p0 3.569e−10 ± 3.805e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

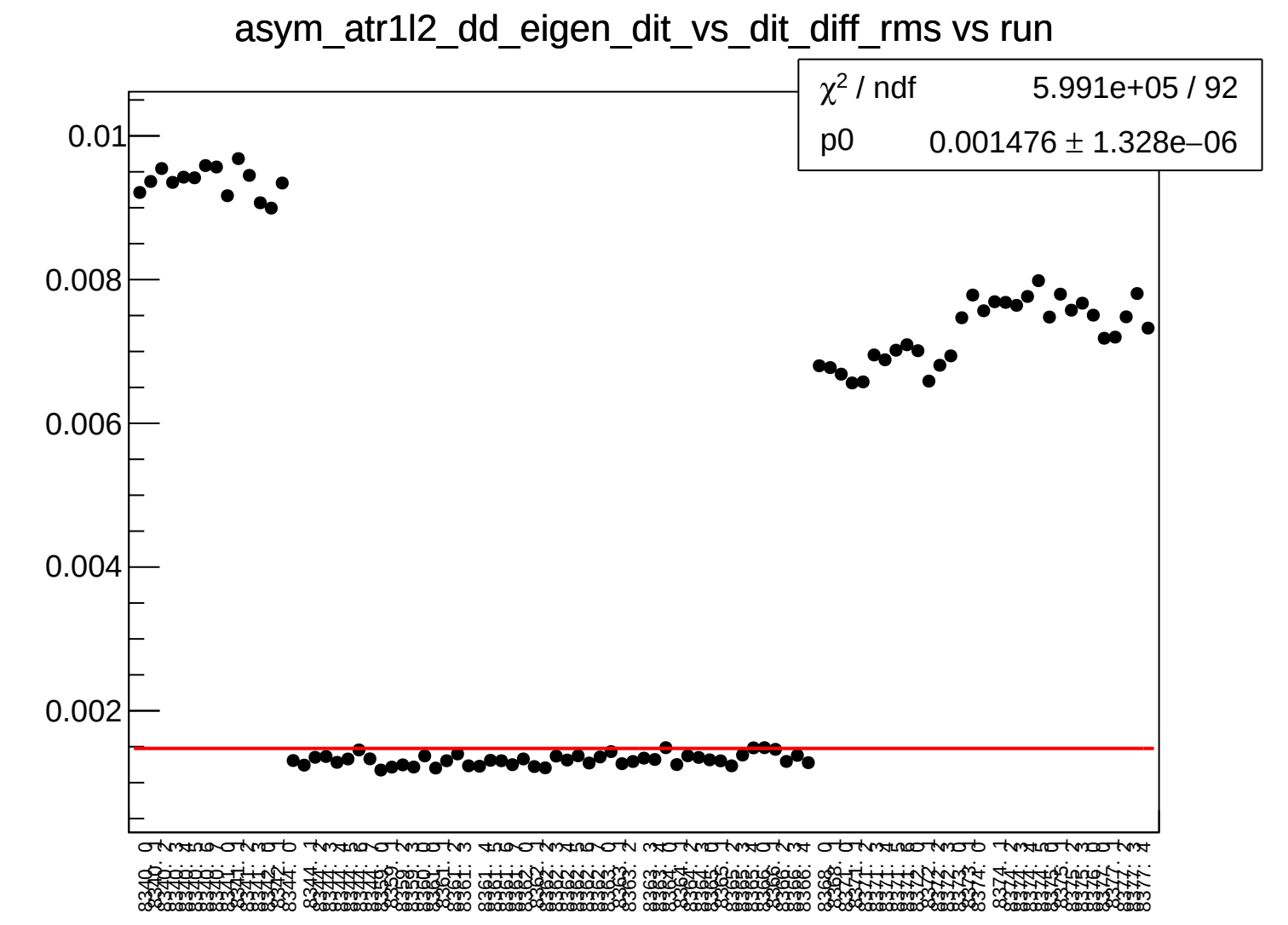

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 67.97 / 92
p0 0.05402 ± 0.09697
pull
Entries 93
Mean 164.8
Std Dev 0
pull1D
Entries 93
Mean −0.03032
Std Dev 0.8544

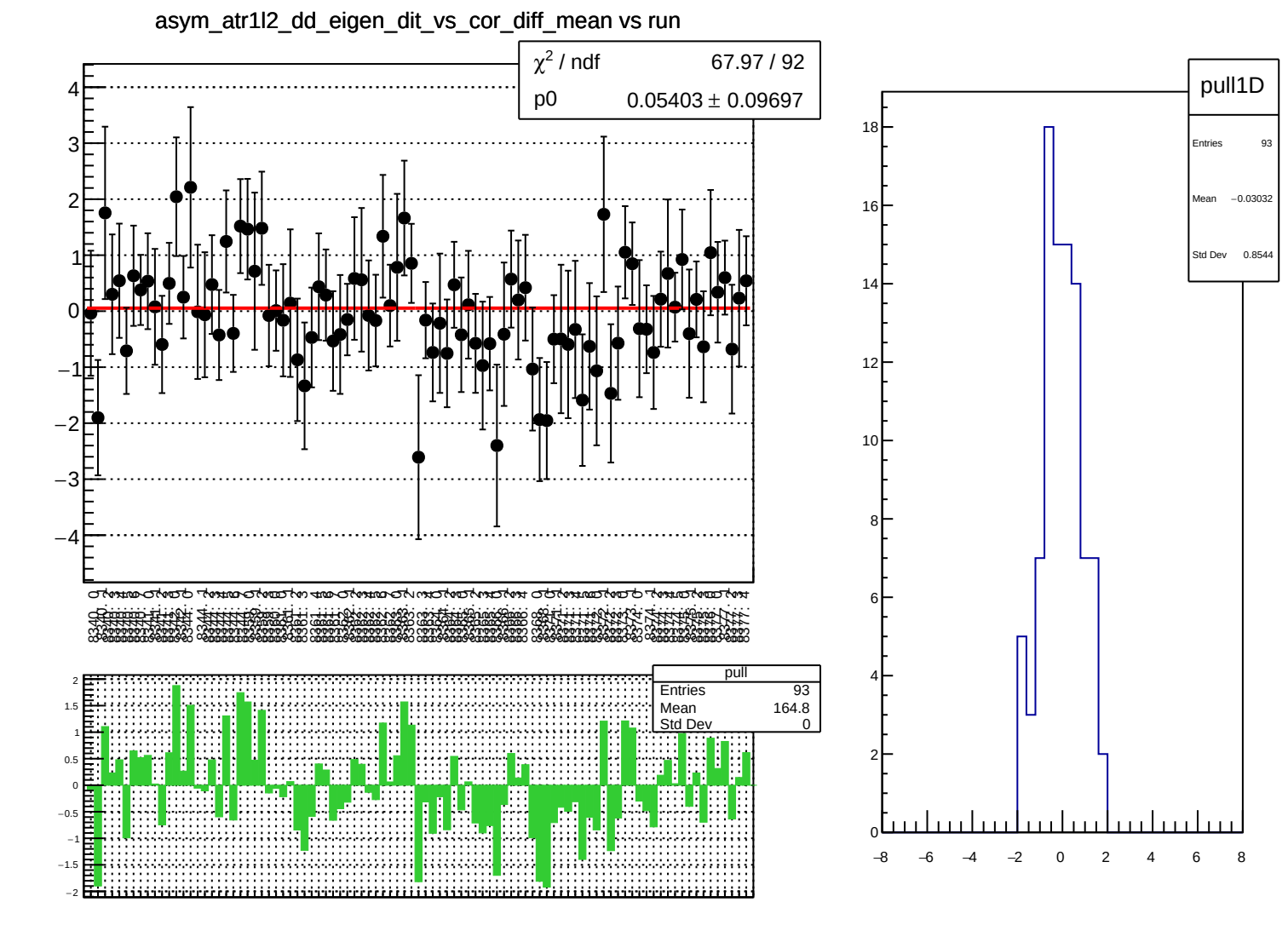

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.193e+04 / 92
p0 91.01 ± 0.06857
140
120
100
80
60

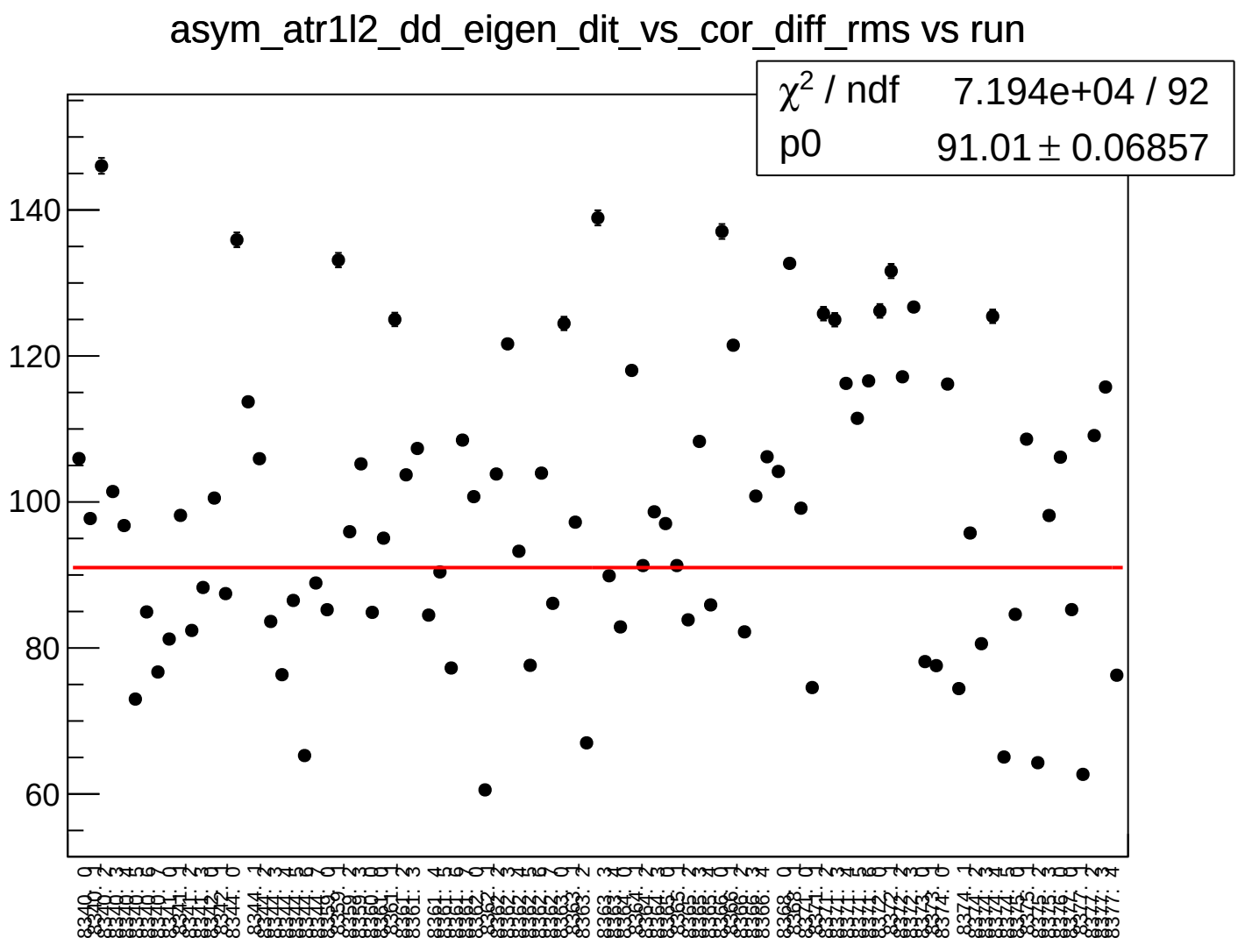

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.97 / 92
p0 0.05402 ± 0.09697
pull
Entries 93
Mean 164.8
Std Dev 0
pull1D
Entries 93
Mean −0.03032
Std Dev 0.8544

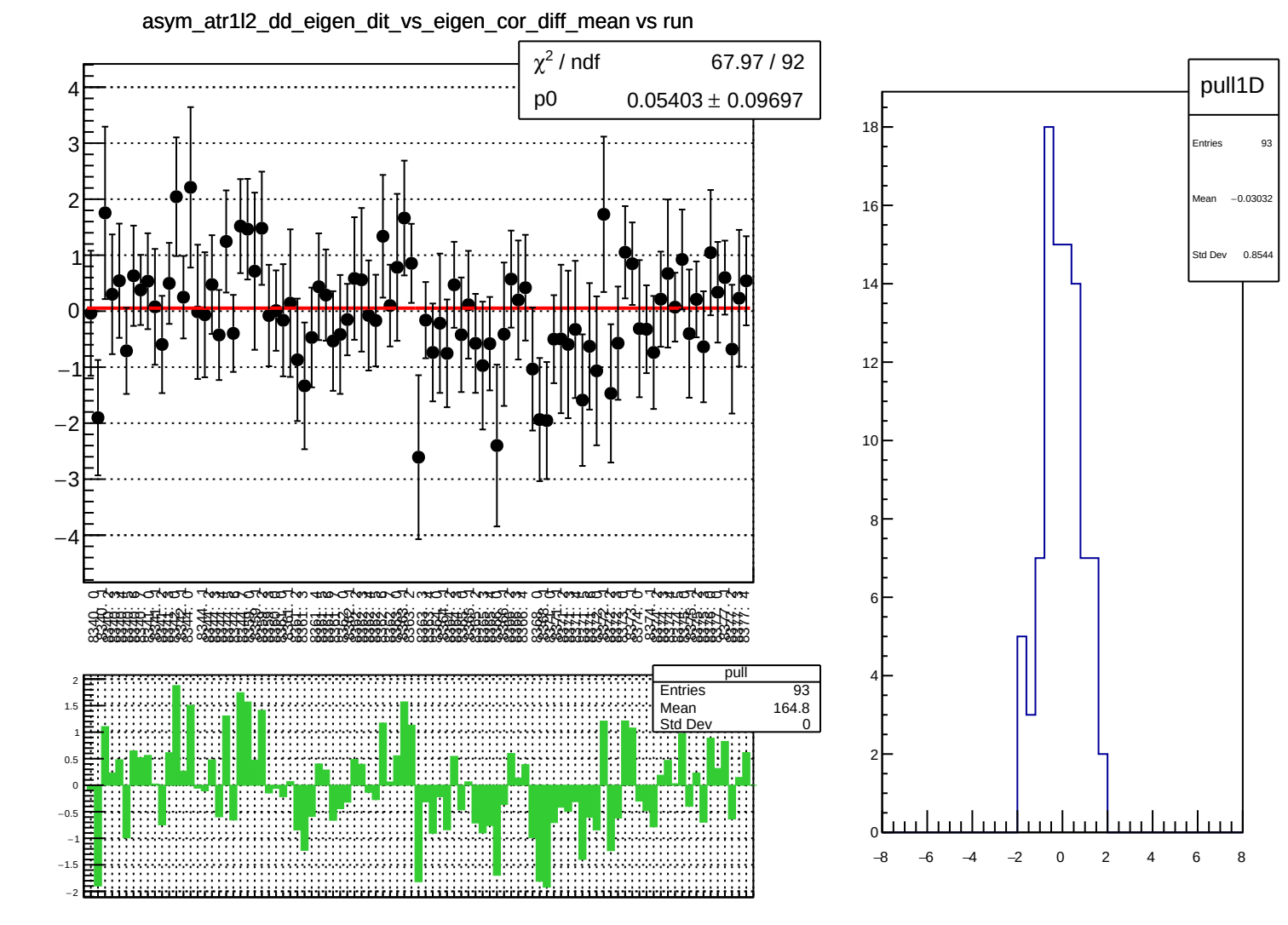

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.193e+04 / 92
p0 91.01 ± 0.06857
140
120
100
80
60

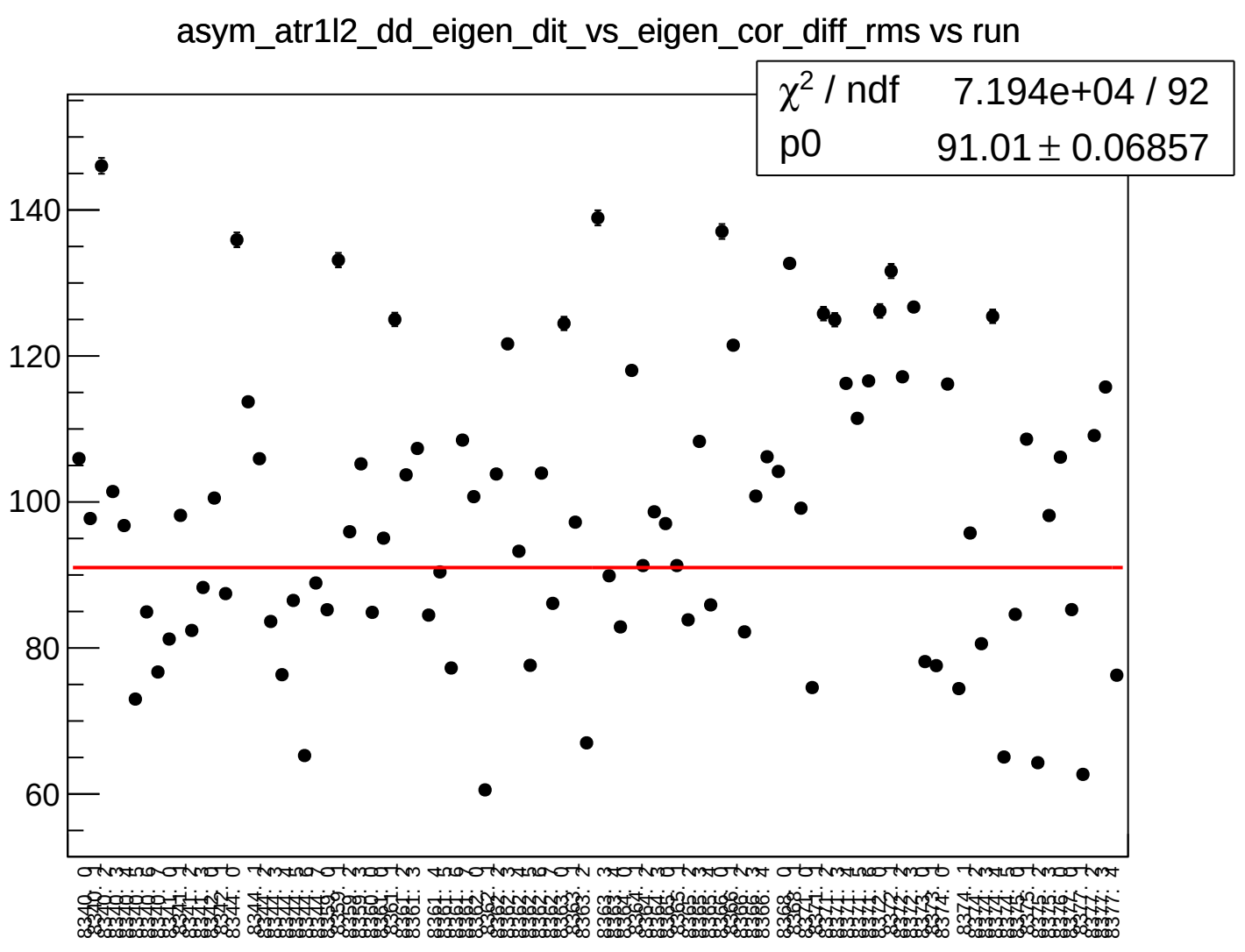

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.94 / 92
p0 4.944e−06 ± 1.878e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean 89.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.04763
Std Dev 0.9985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

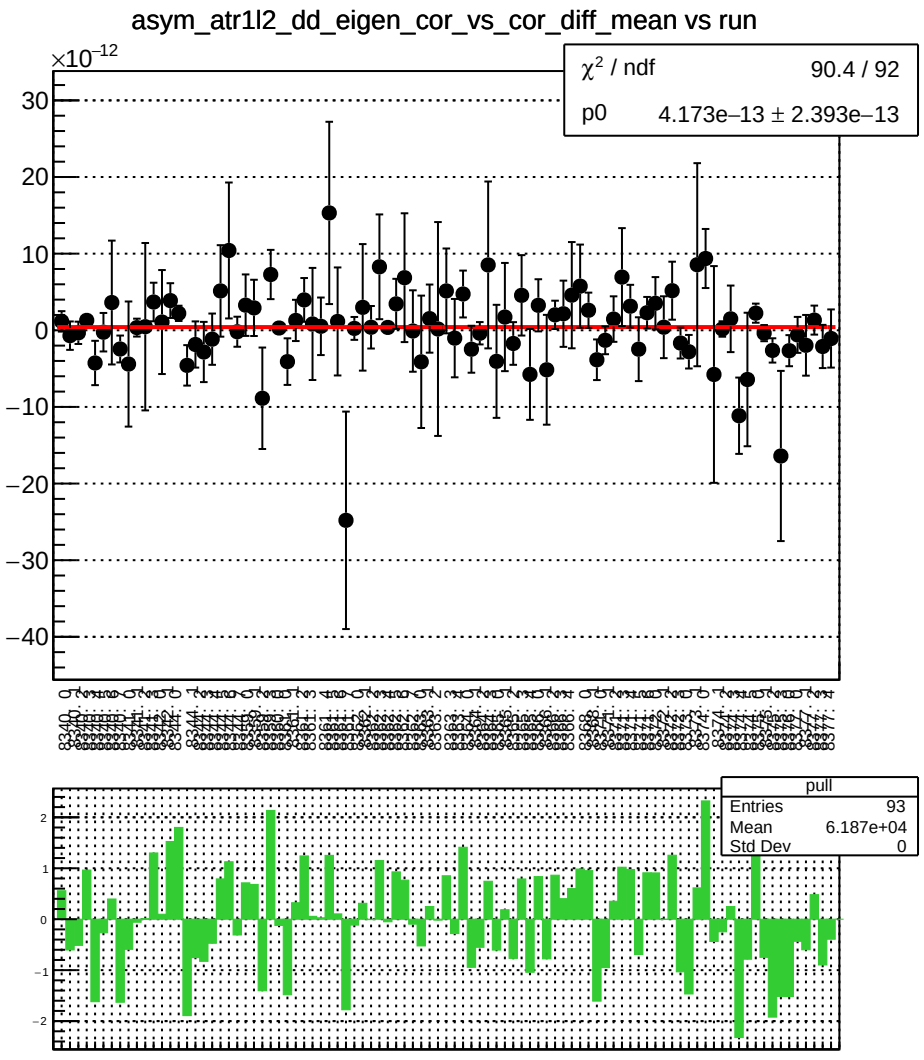

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.991e+05 / 92
p0 0.001476 ± 1.328e−06
0.01
0.008
0.006
0.004
0.002

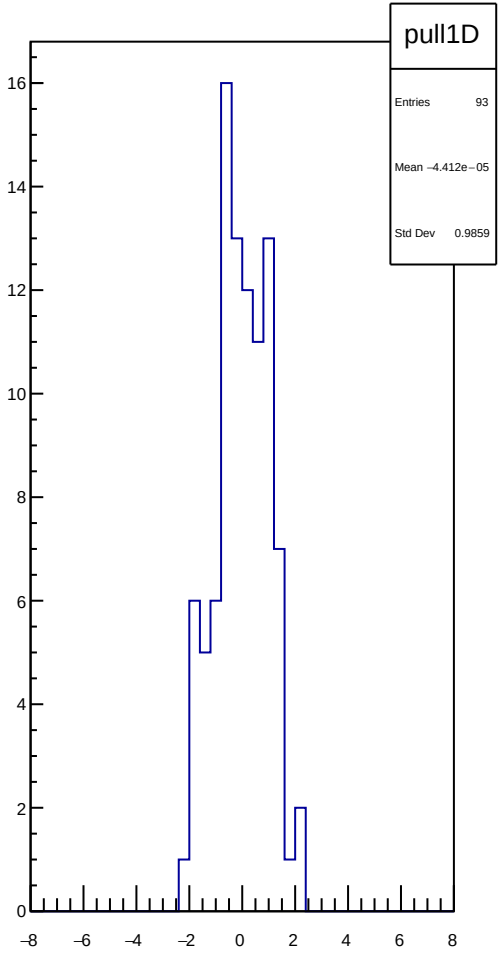

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.97 / 92
p0 0.05403 ± 0.09697
pull
Entries 93
Mean 164.8
Std Dev 0
pull1D
Entries 93
Mean −0.03032
Std Dev 0.8544

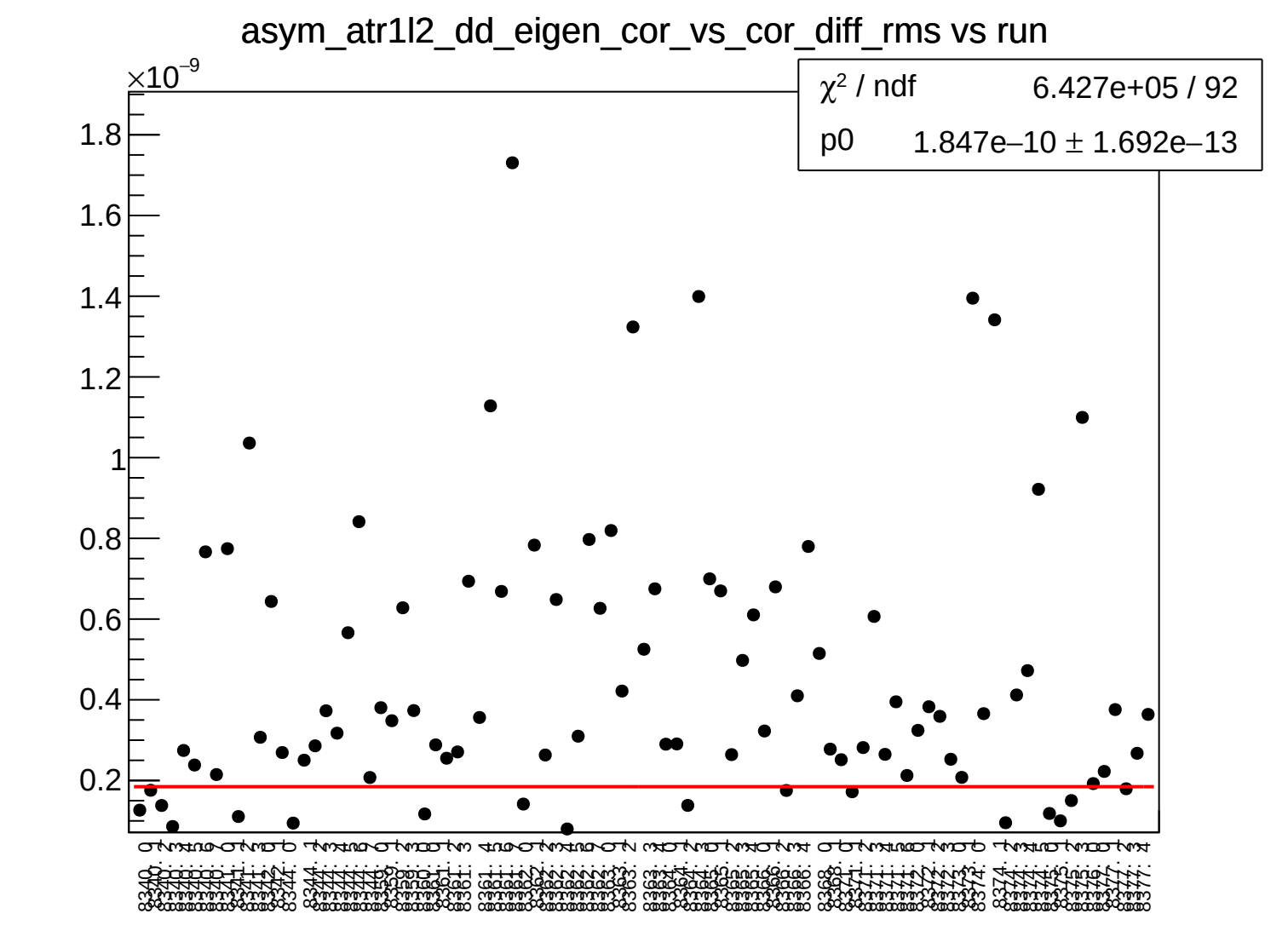

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.194e+04 / 92
p0 91.01 ± 0.06857
140
120
100
80
60

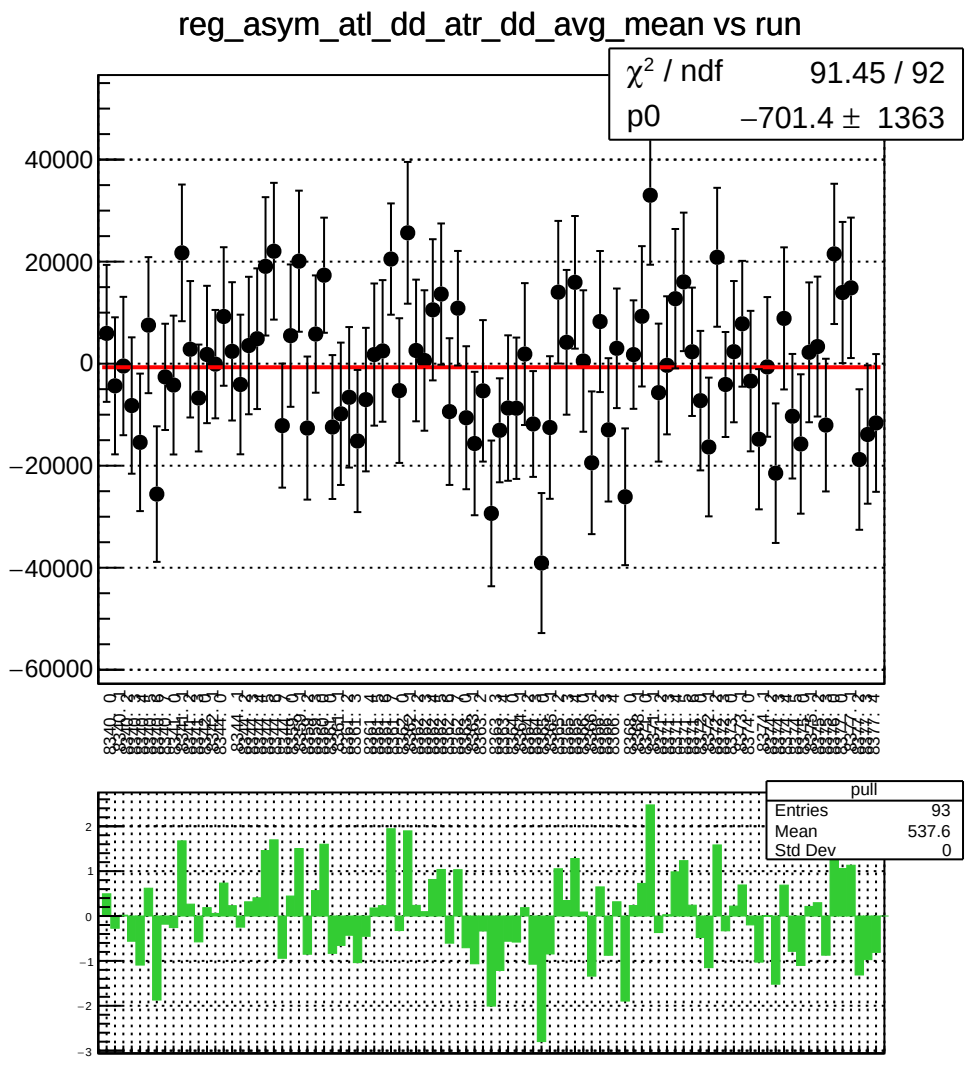

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.97 / 92
p0 0.05403 ± 0.09697
pull
Entries 93
Mean 164.8
Std Dev 0
pull1D
Entries 93
Mean −0.03032
Std Dev 0.8544

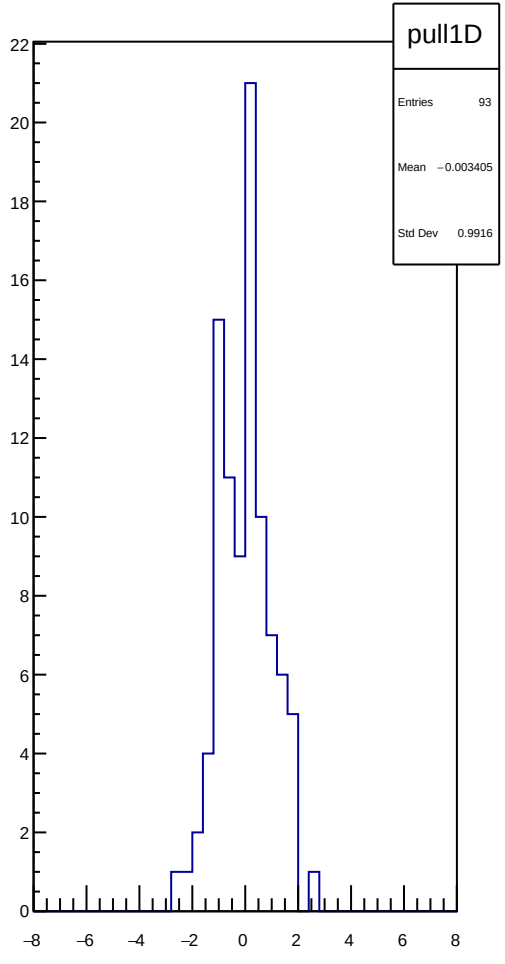

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.194e+04 / 92
p0 91.01 ± 0.06857
140
120
100
80
60

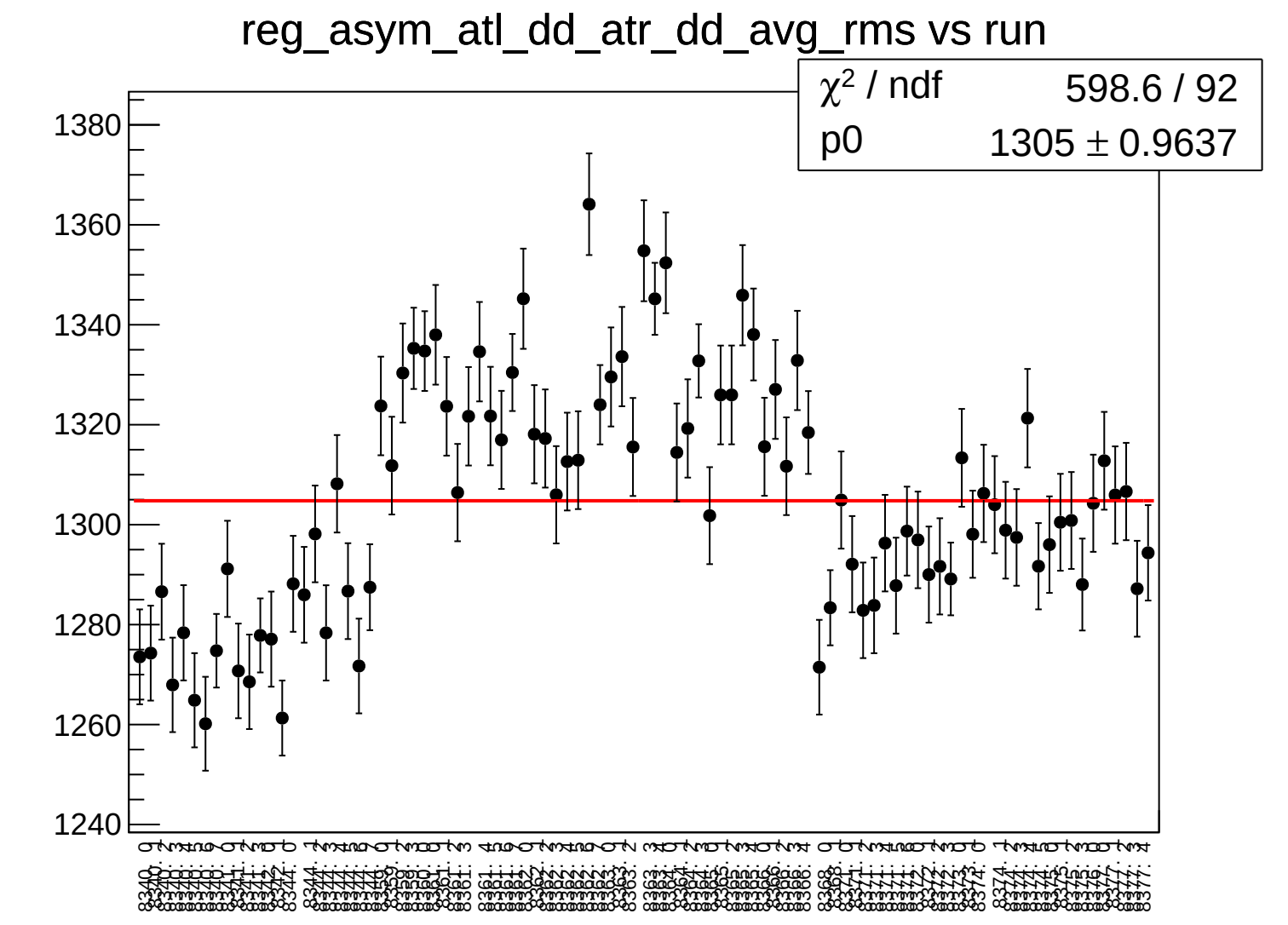

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.4 / 92
p0 4.173e−13 ± 2.393e−13
pull
Entries 93
Mean 6.187e+04
Std Dev 0

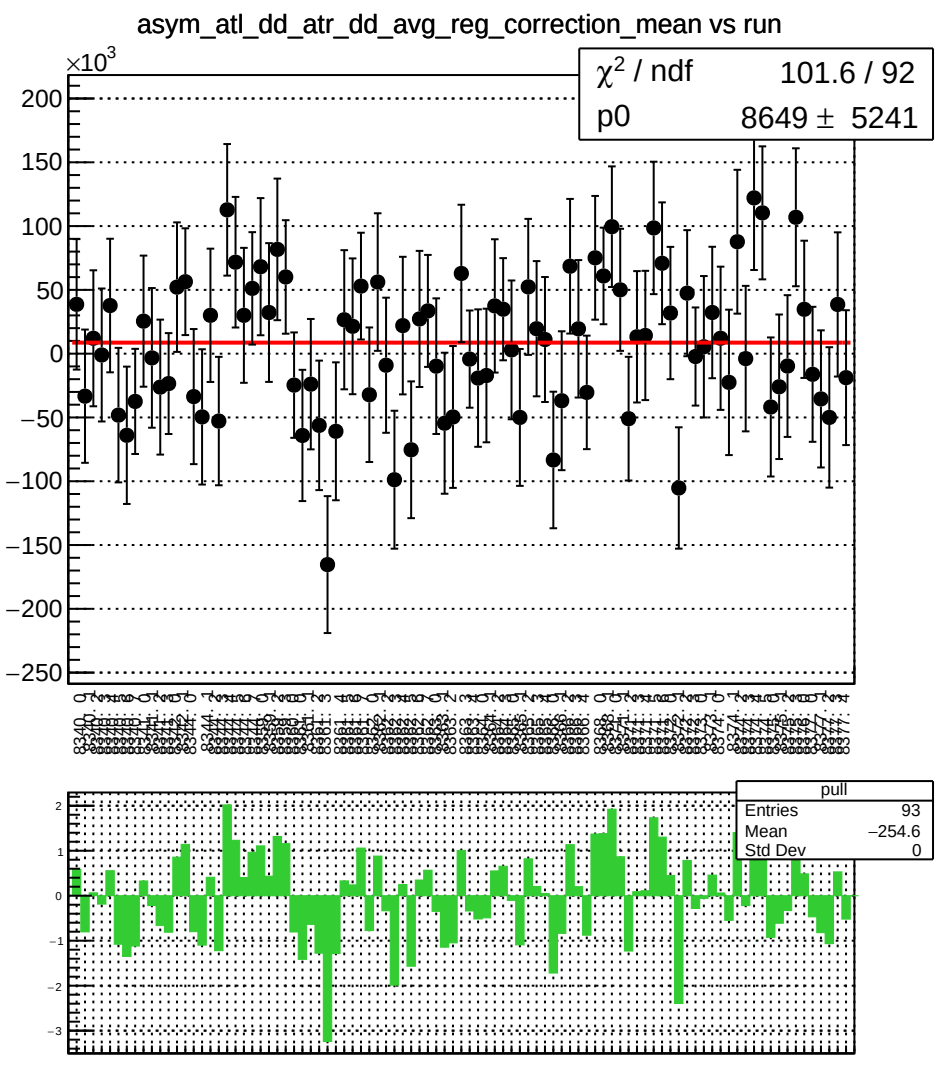

pull1D
Entries 93
Mean −4.412e−05
Std Dev 0.9859

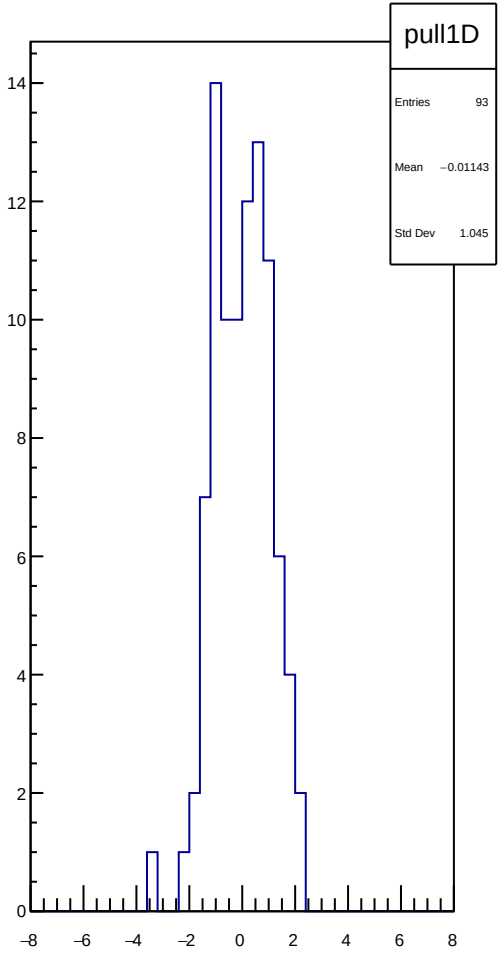

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.427e+05 / 92
p0 1.847e−10 ± 1.692e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

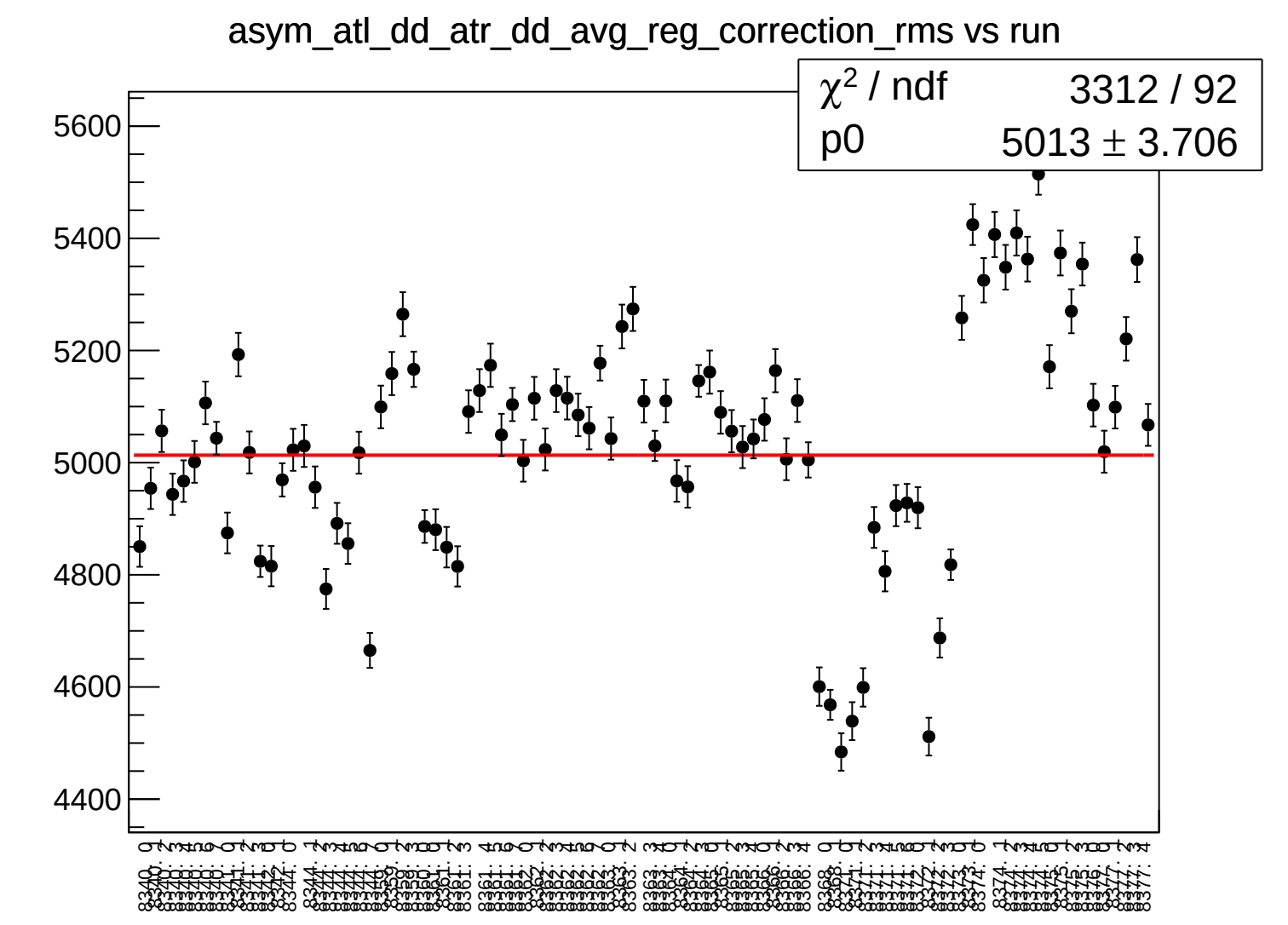

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.45 / 92
p0 −701.4 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.6
Std Dev 0
2
1
0
−1
−2
−3

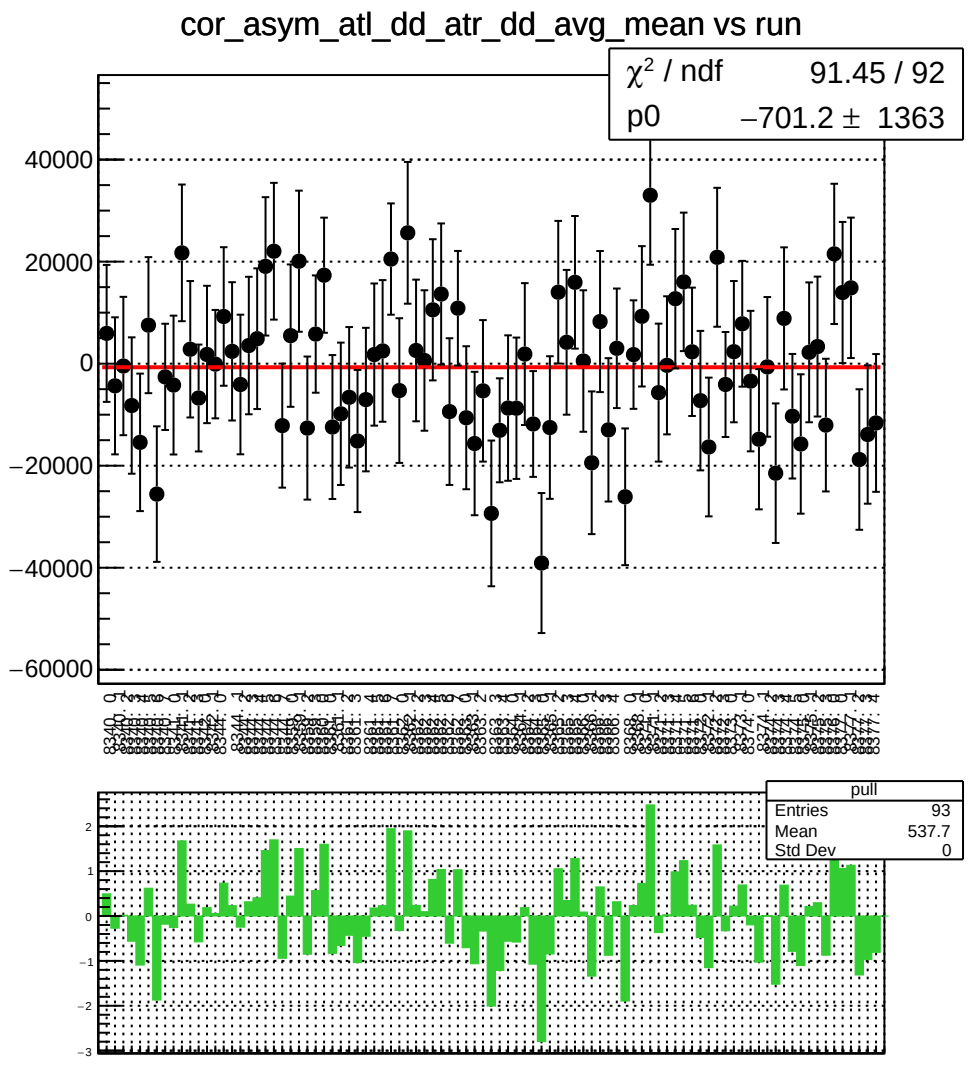

pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

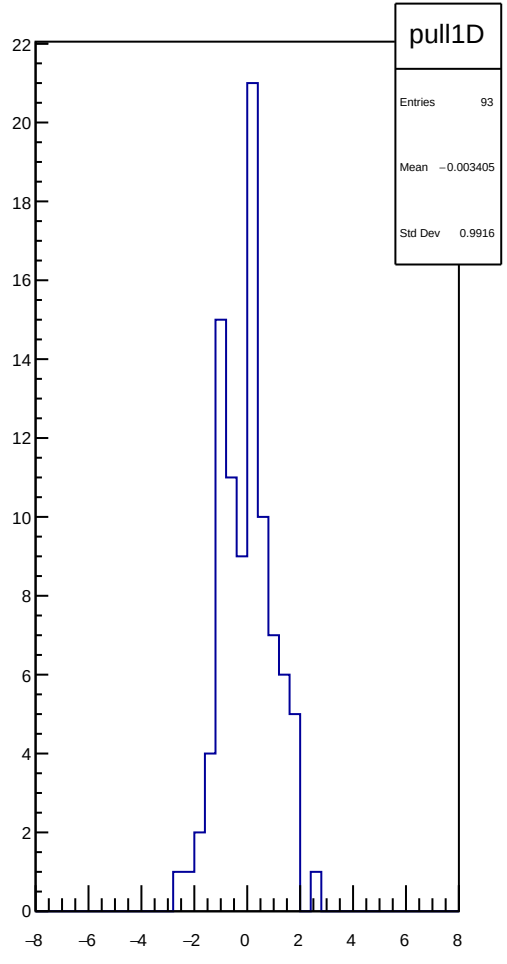

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

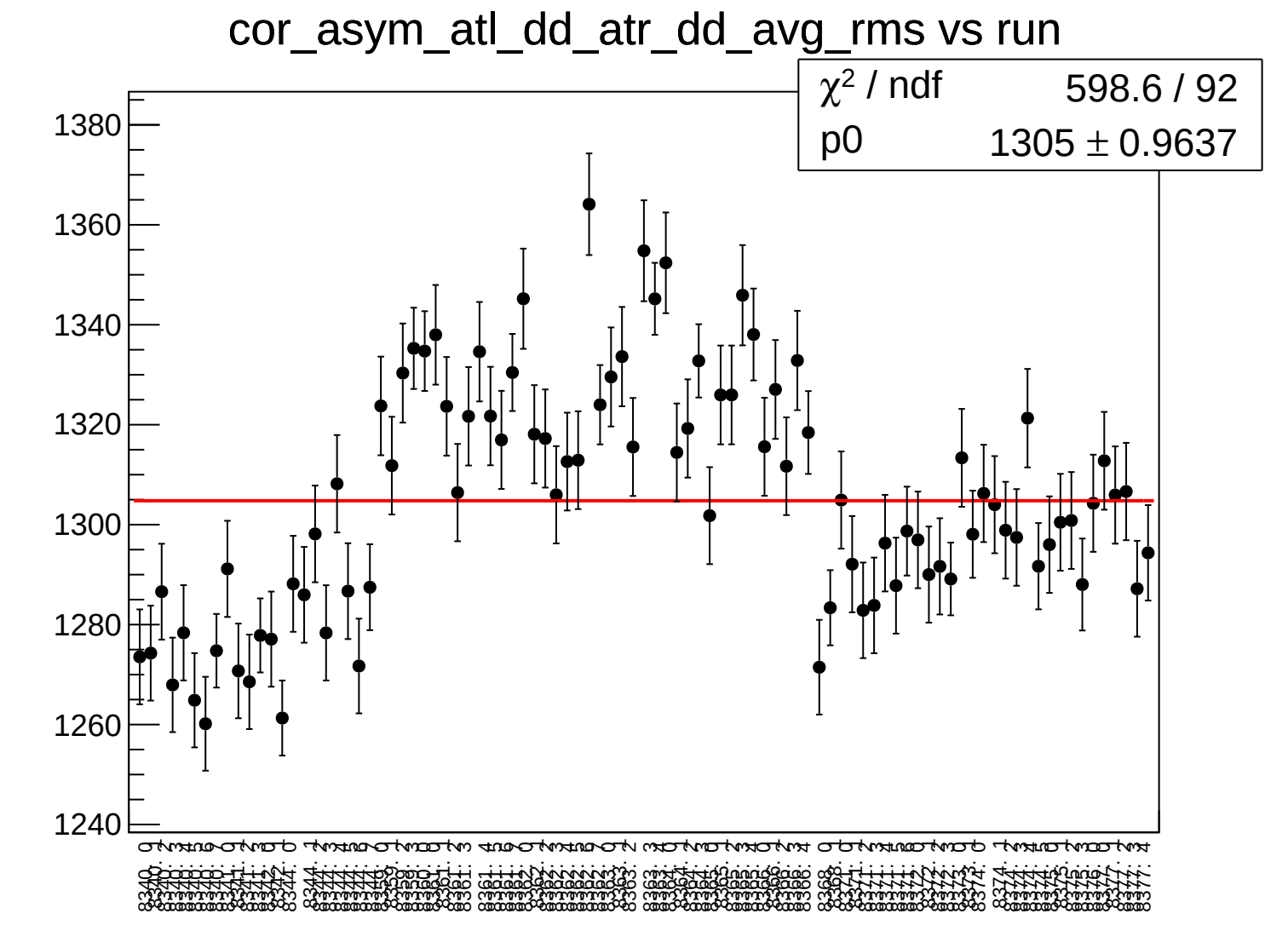

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.6
Std Dev 0

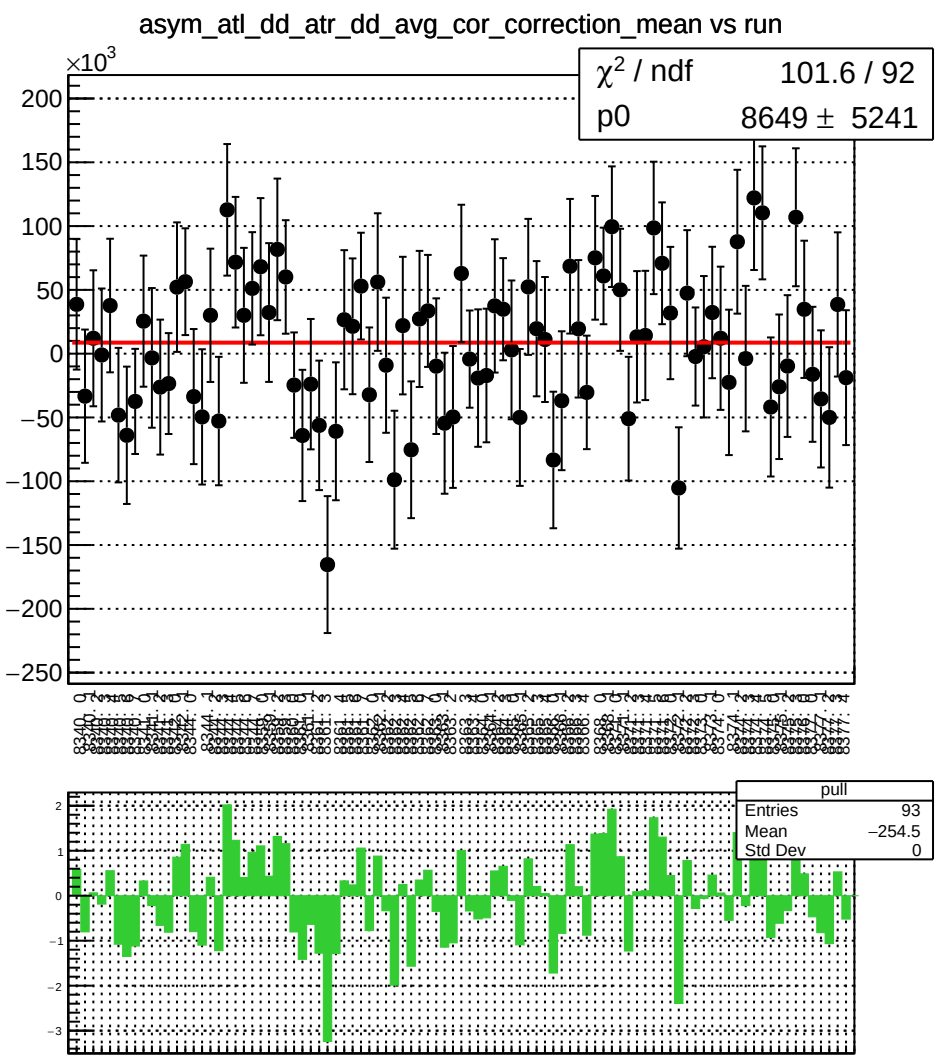

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

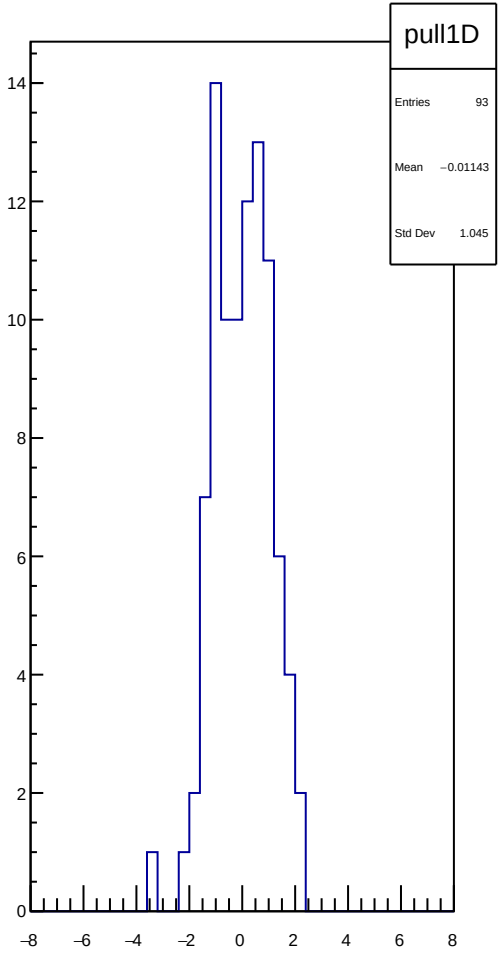

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3312 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

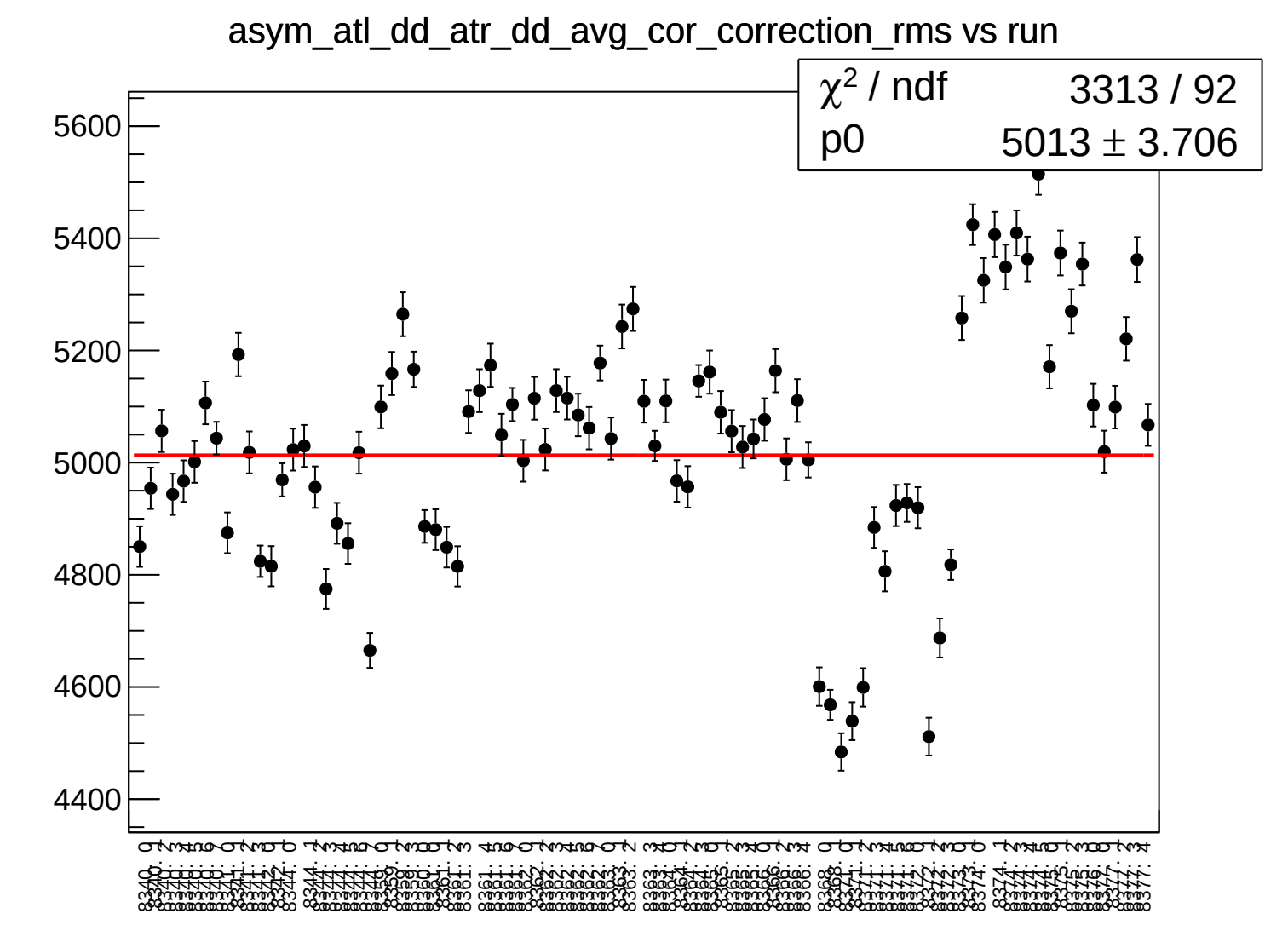

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3

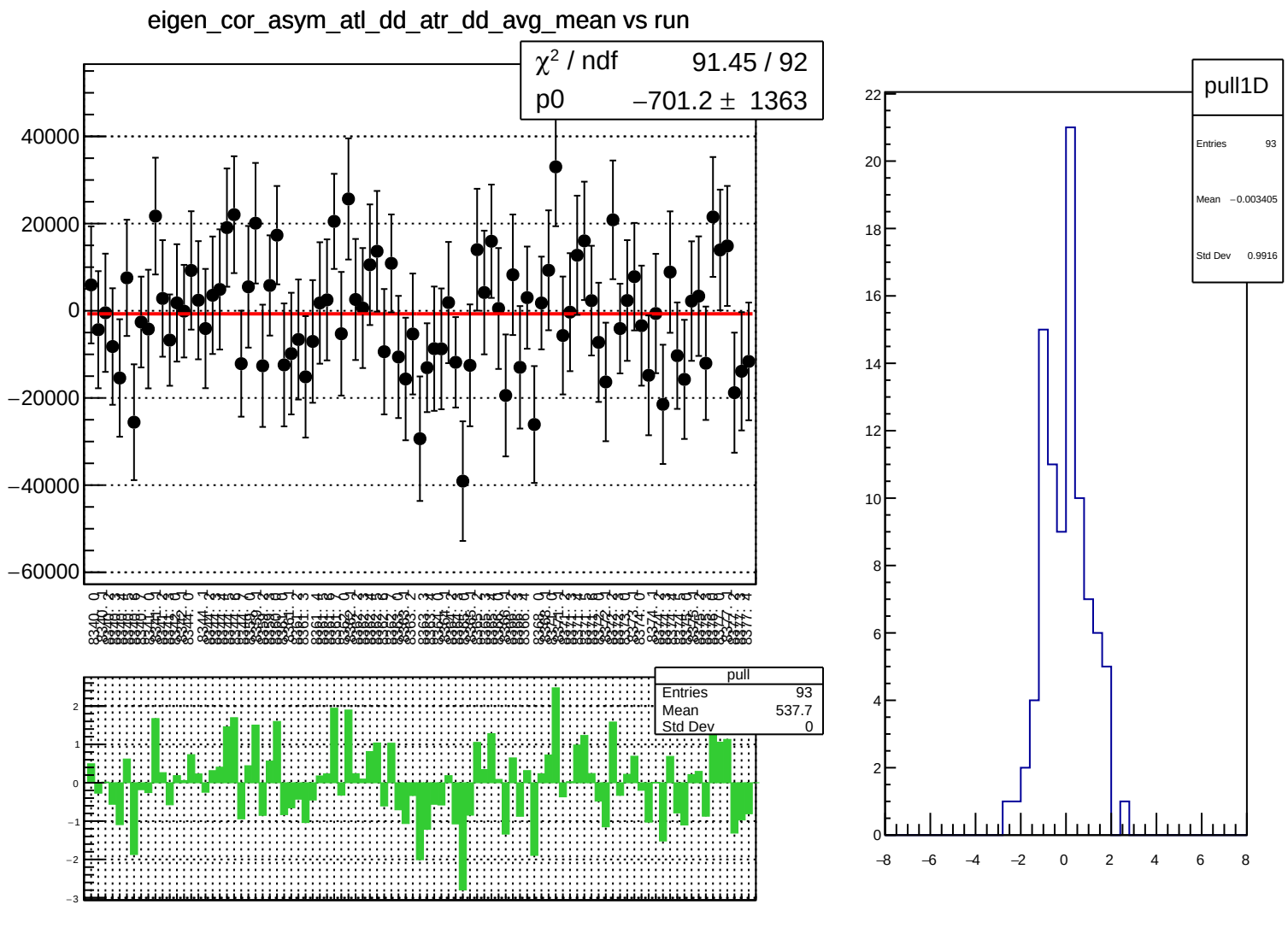

pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

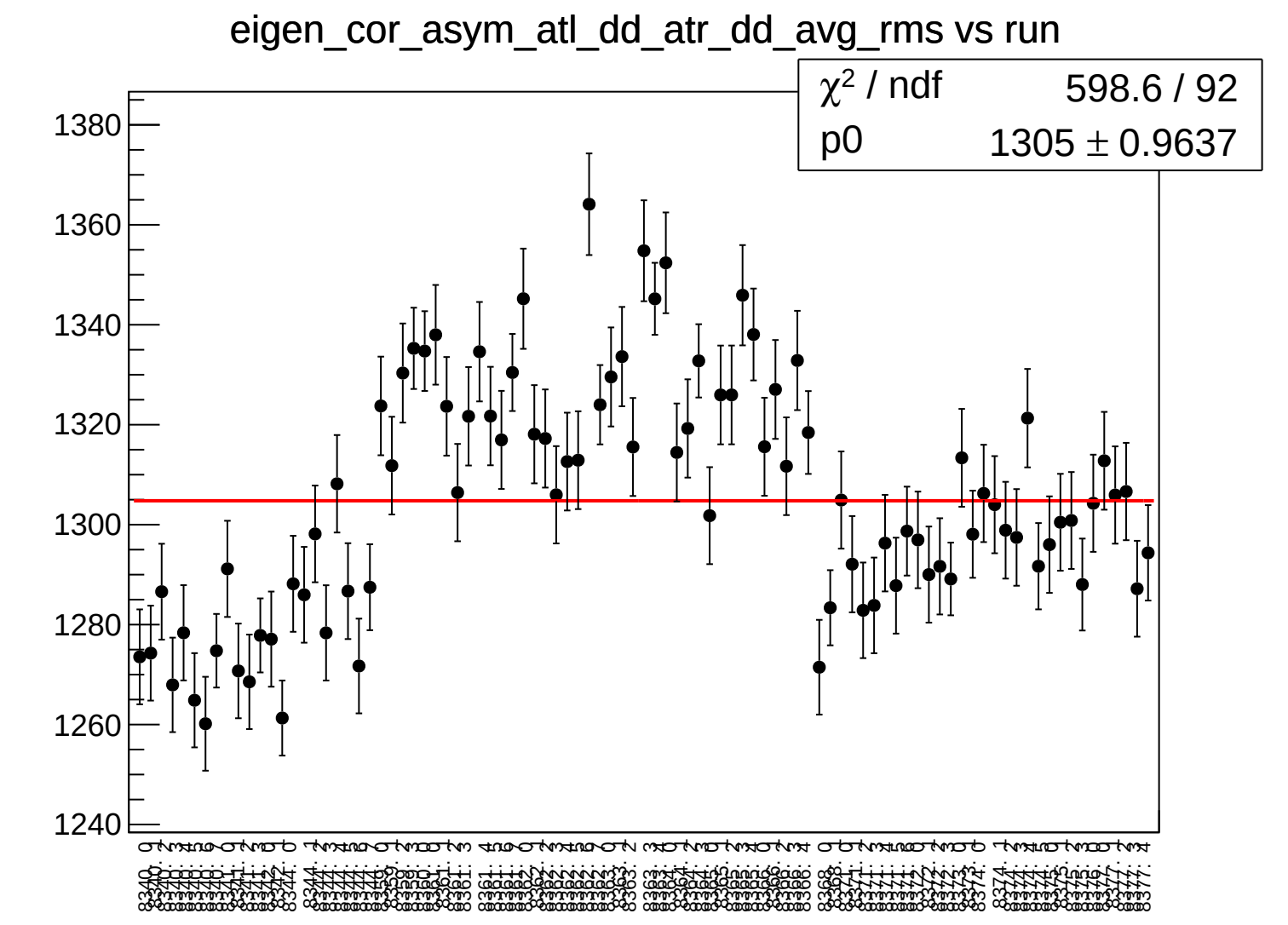

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

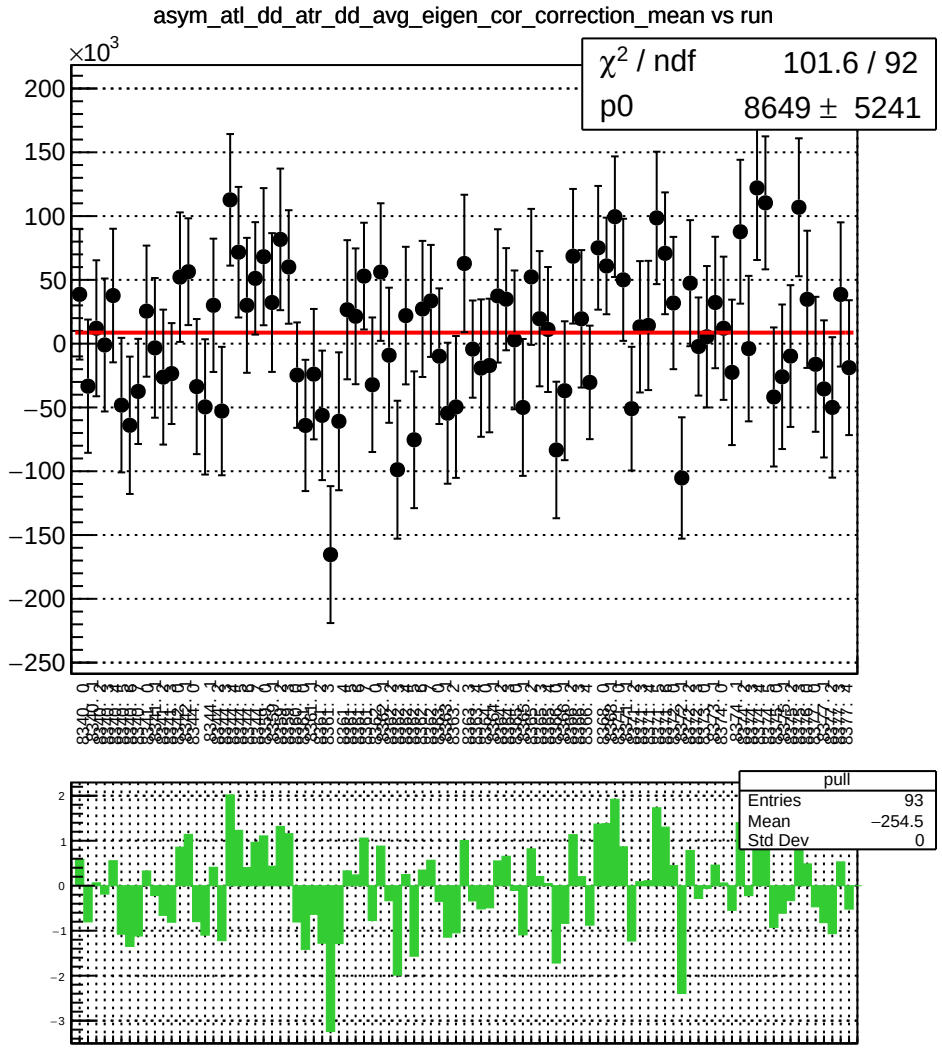

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −254.5
Std Dev 0
2
1
0
−1
−2
−3

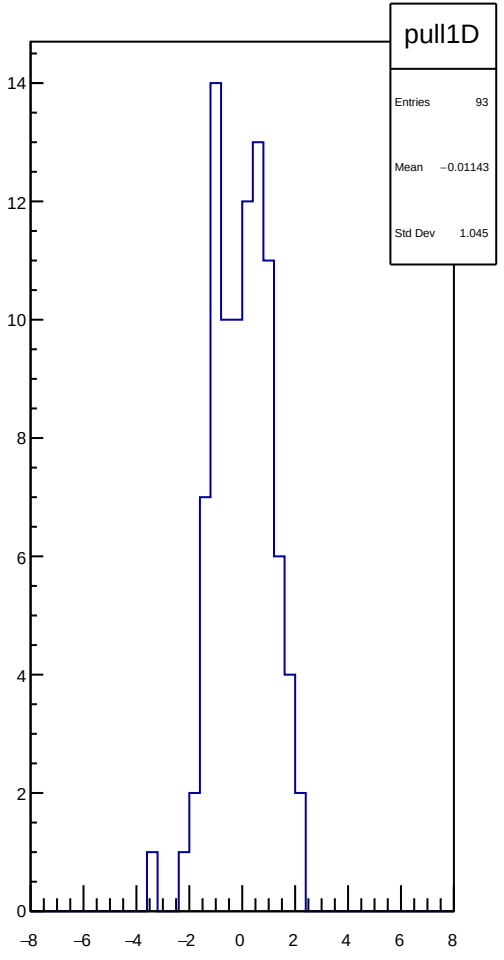

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

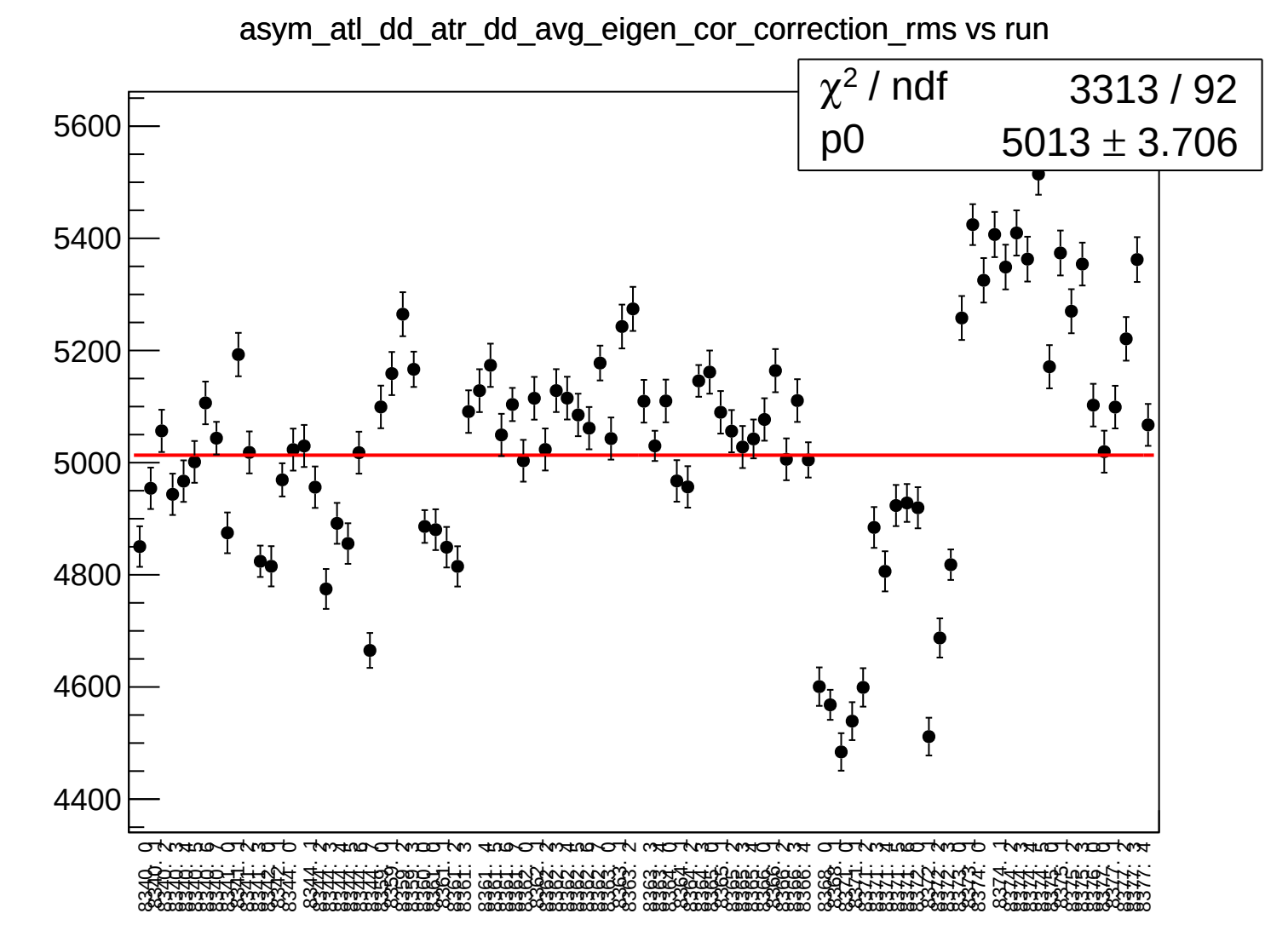

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

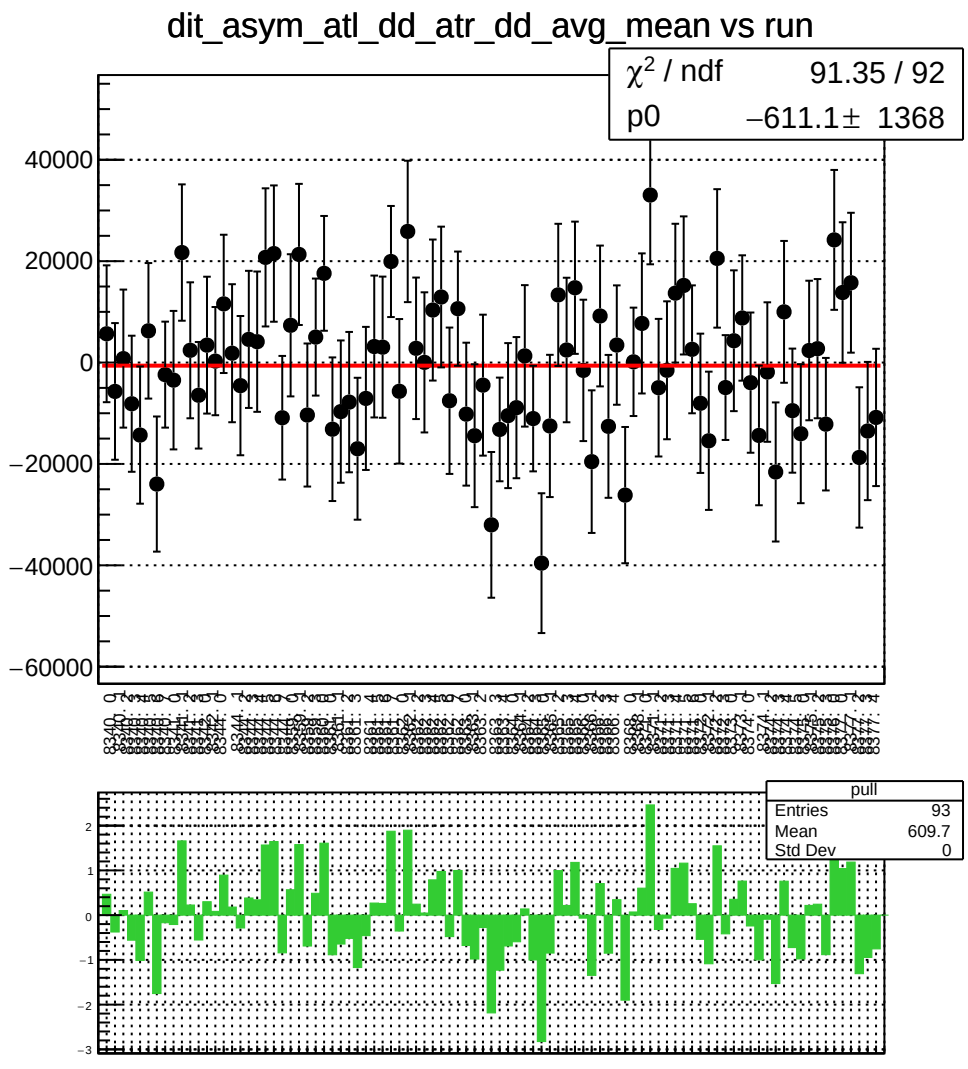

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

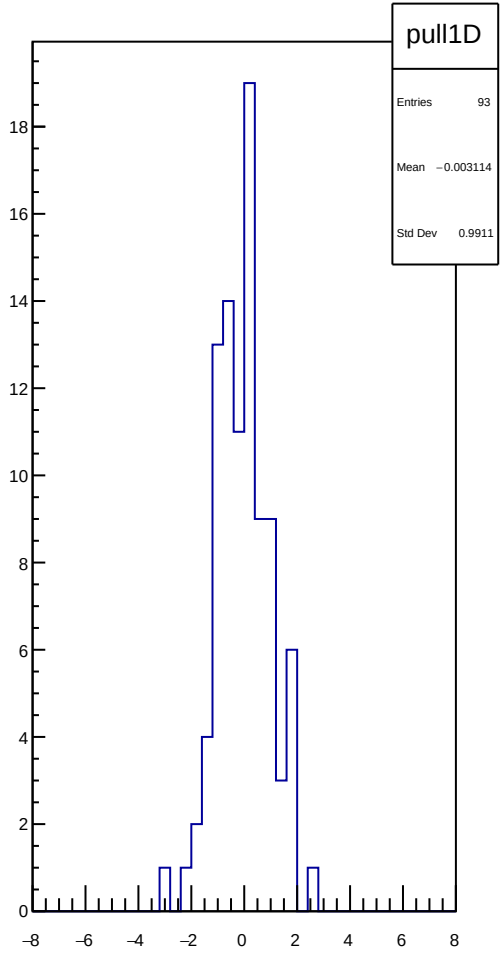

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

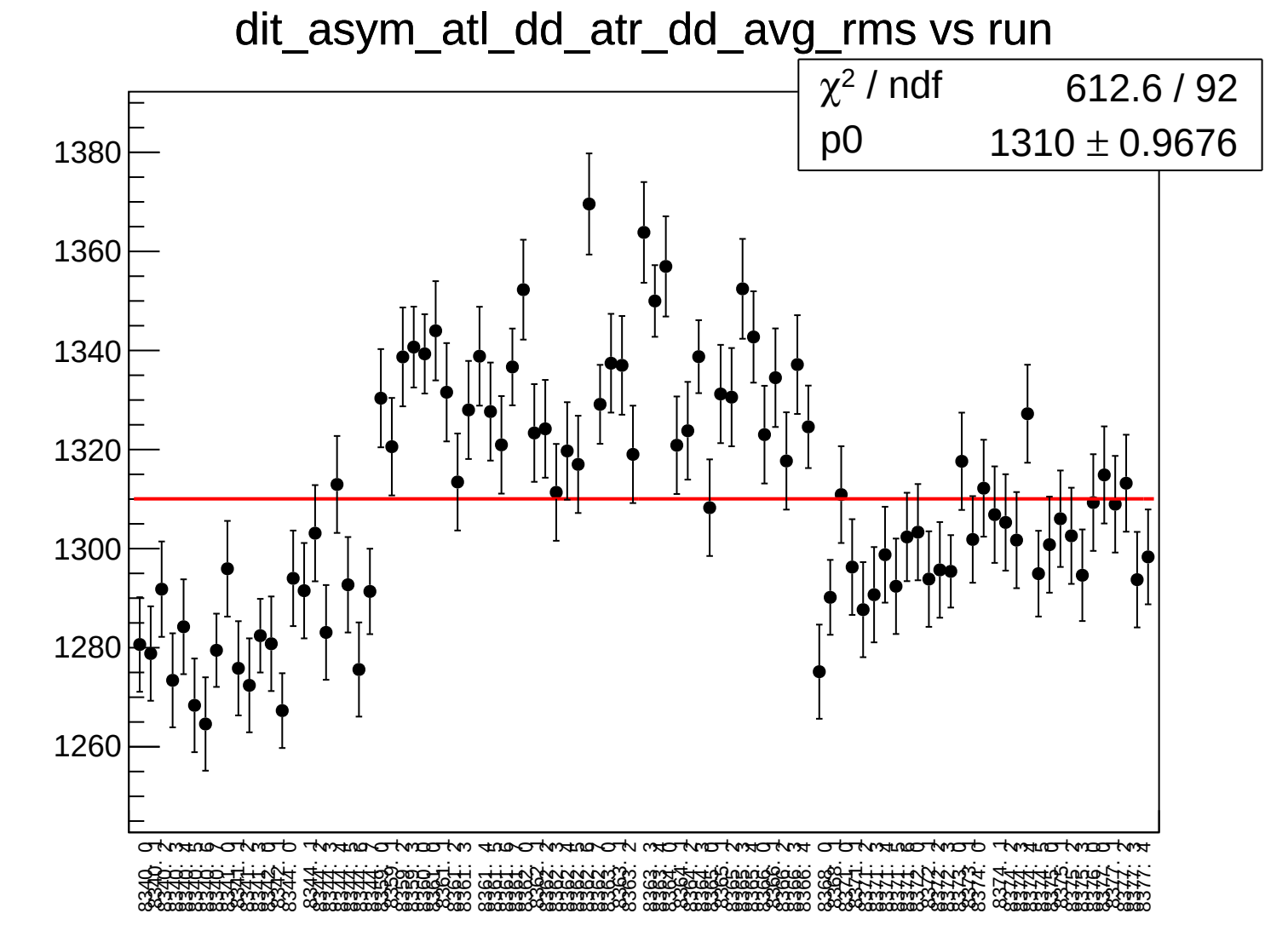

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.5
Std Dev 0

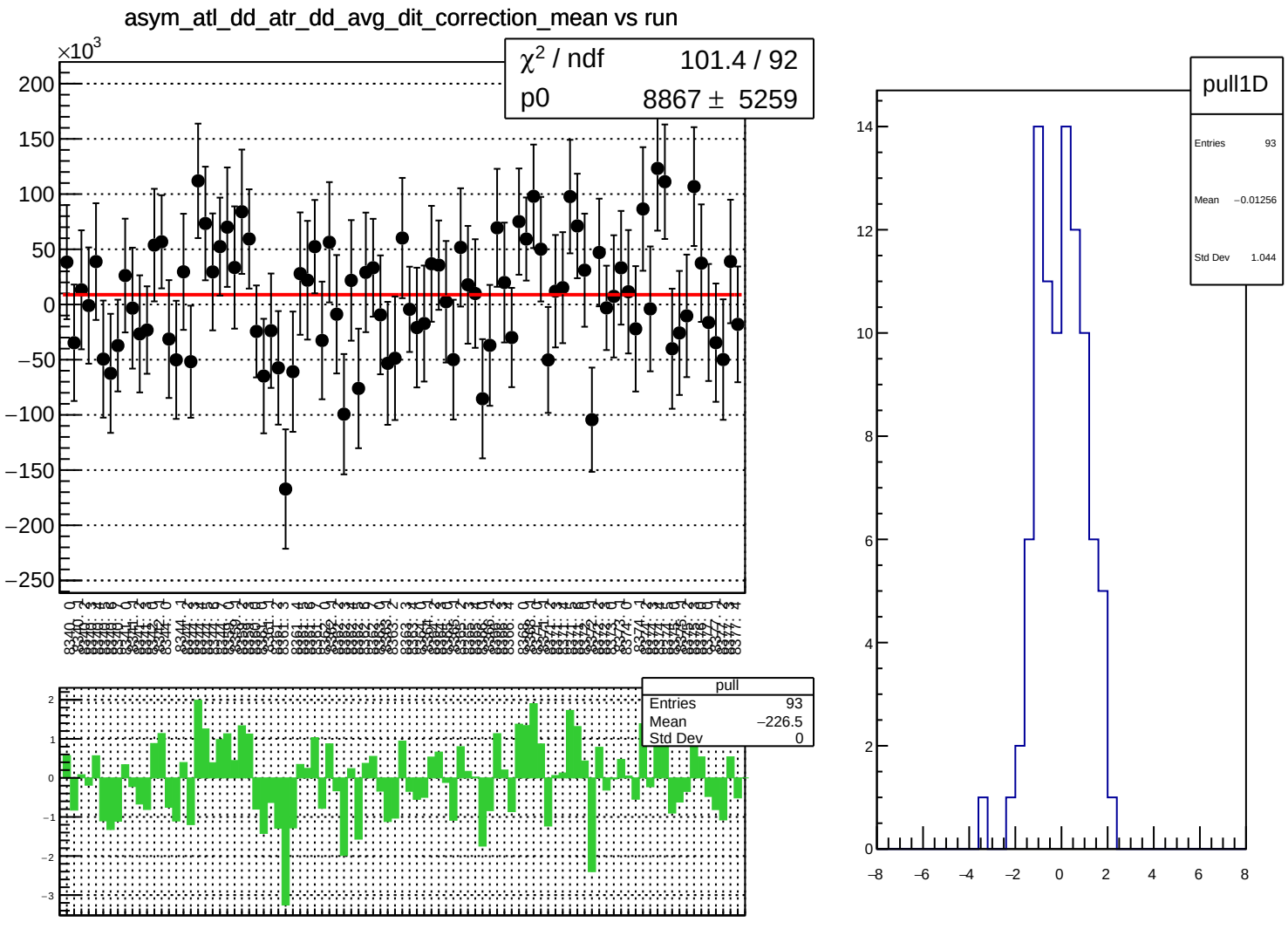

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

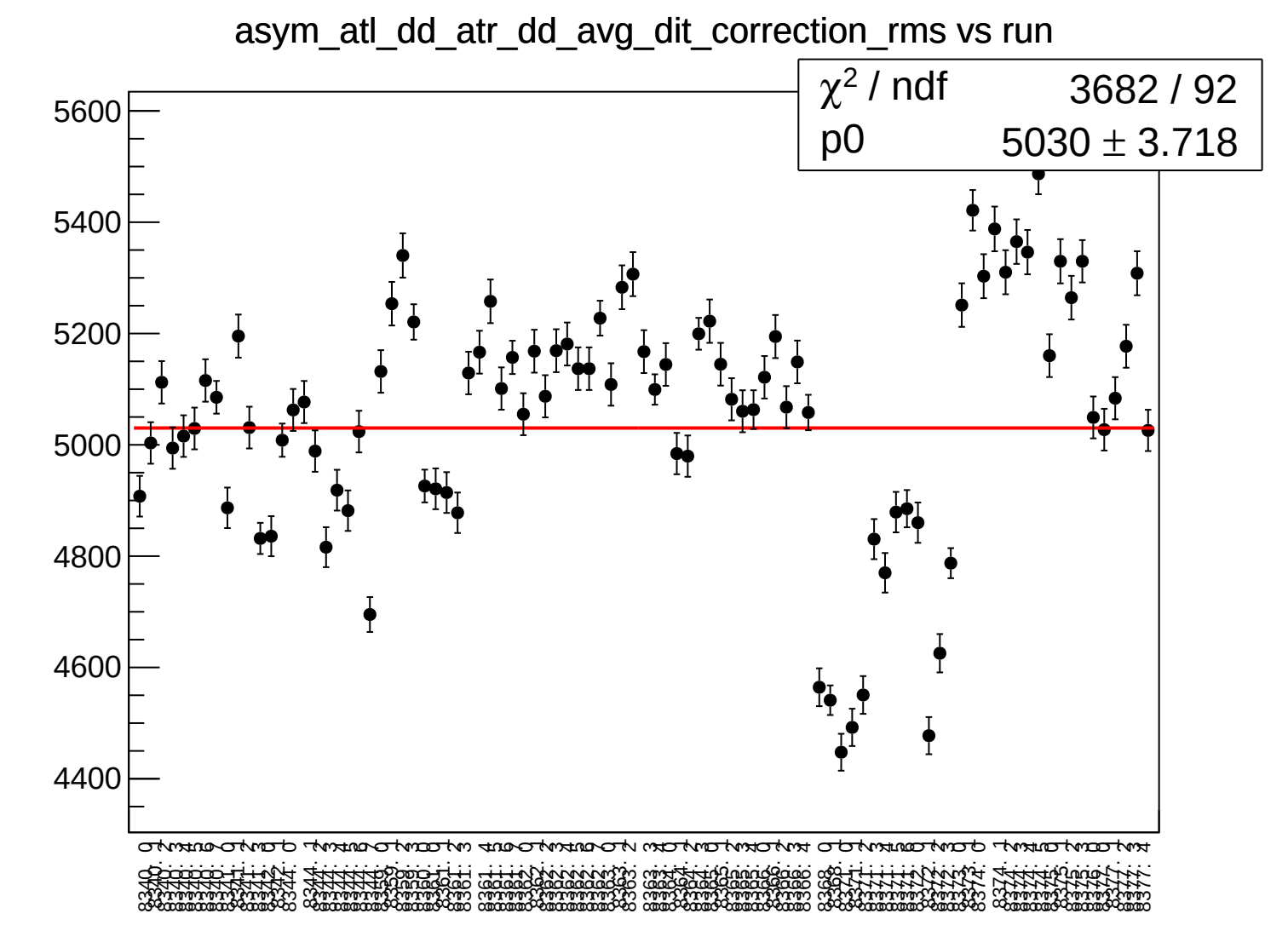

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

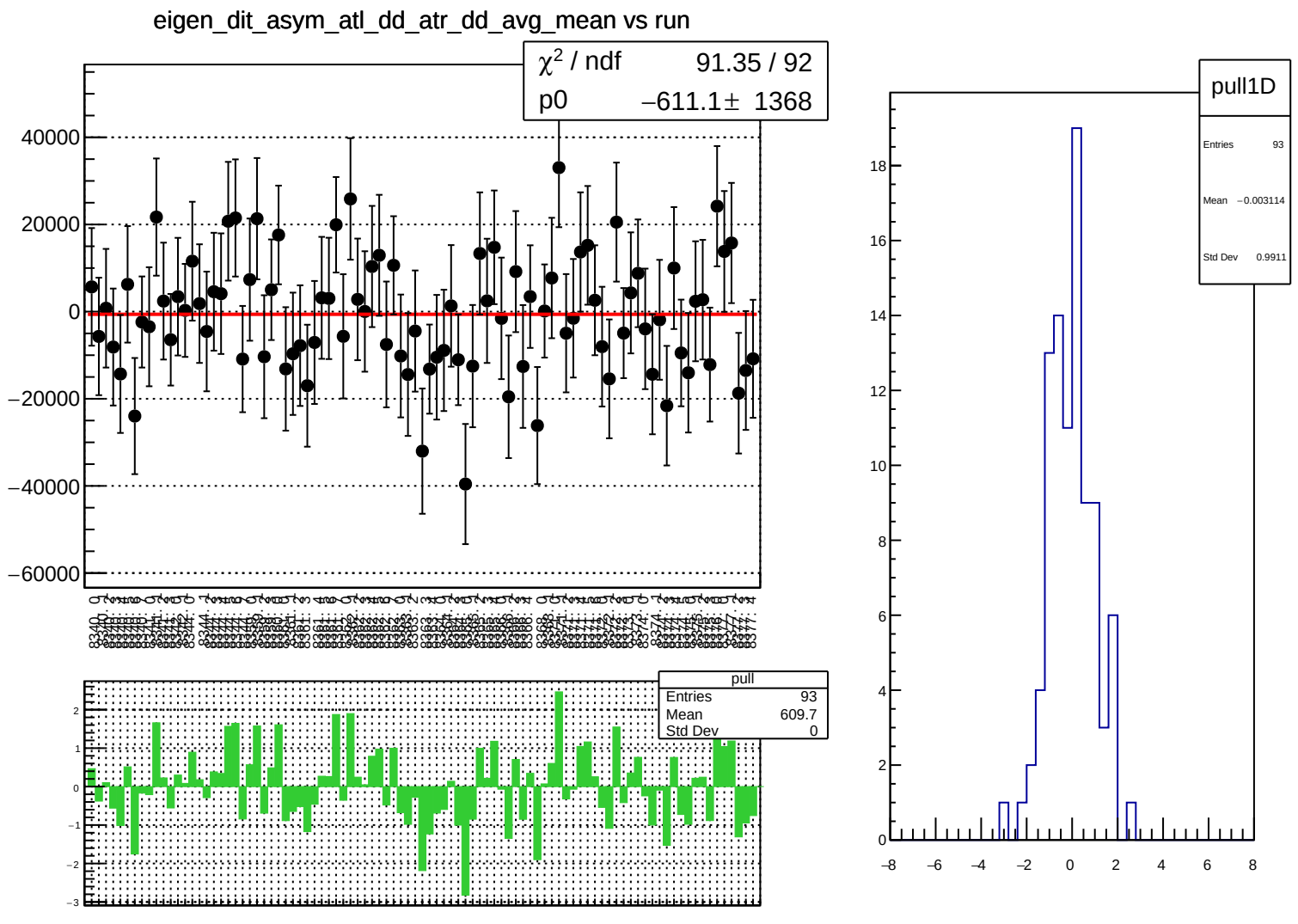

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3

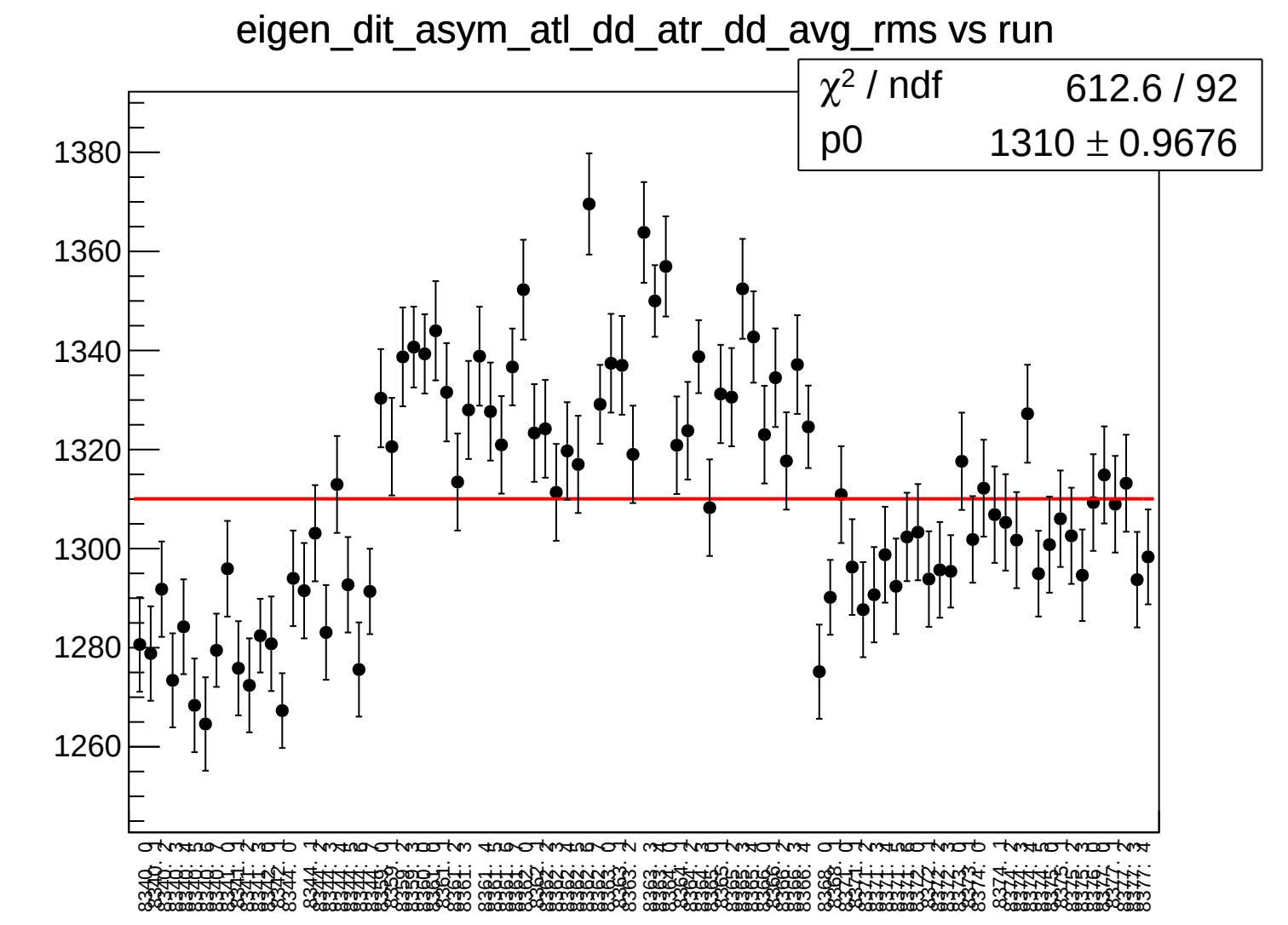

pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

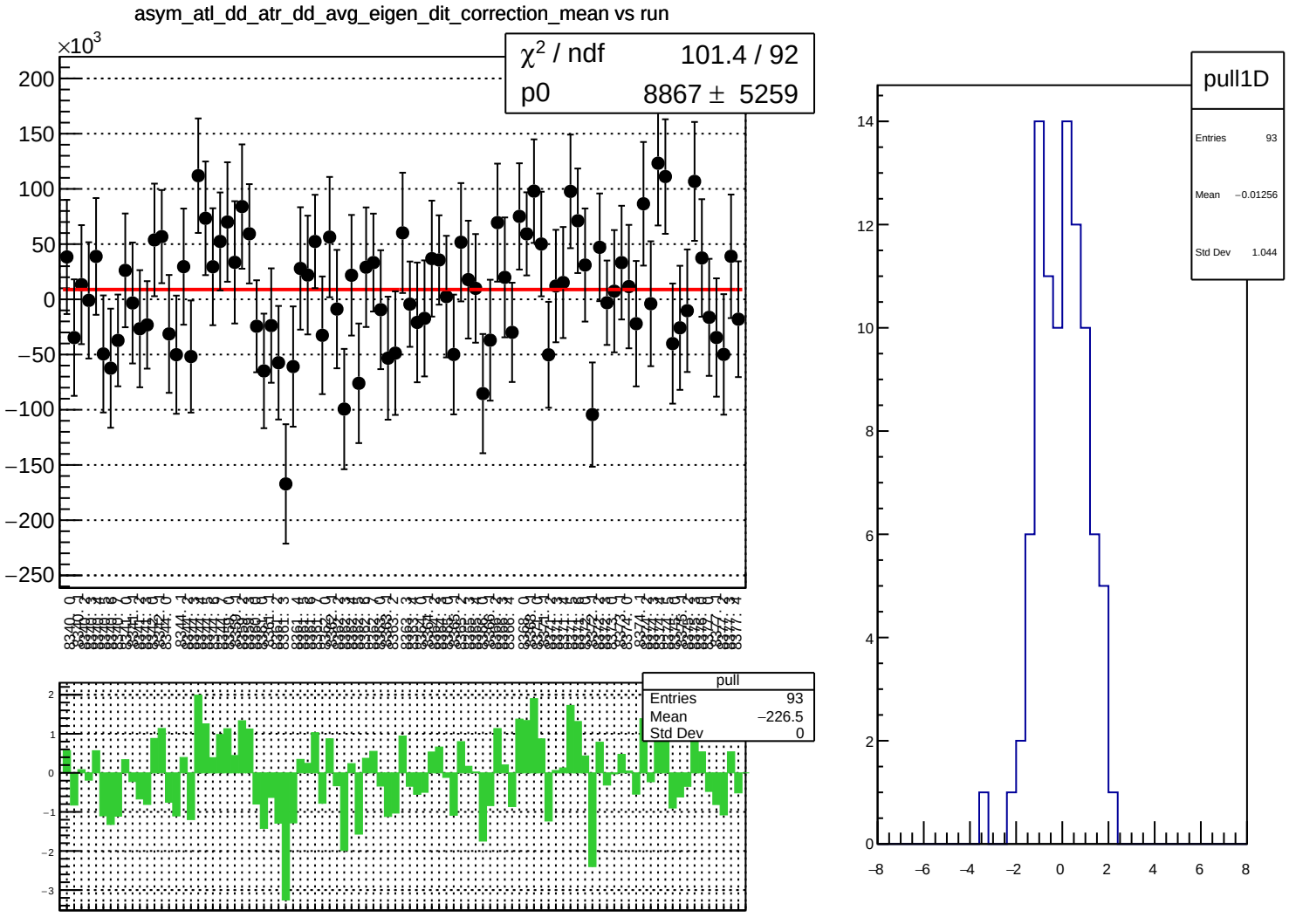

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

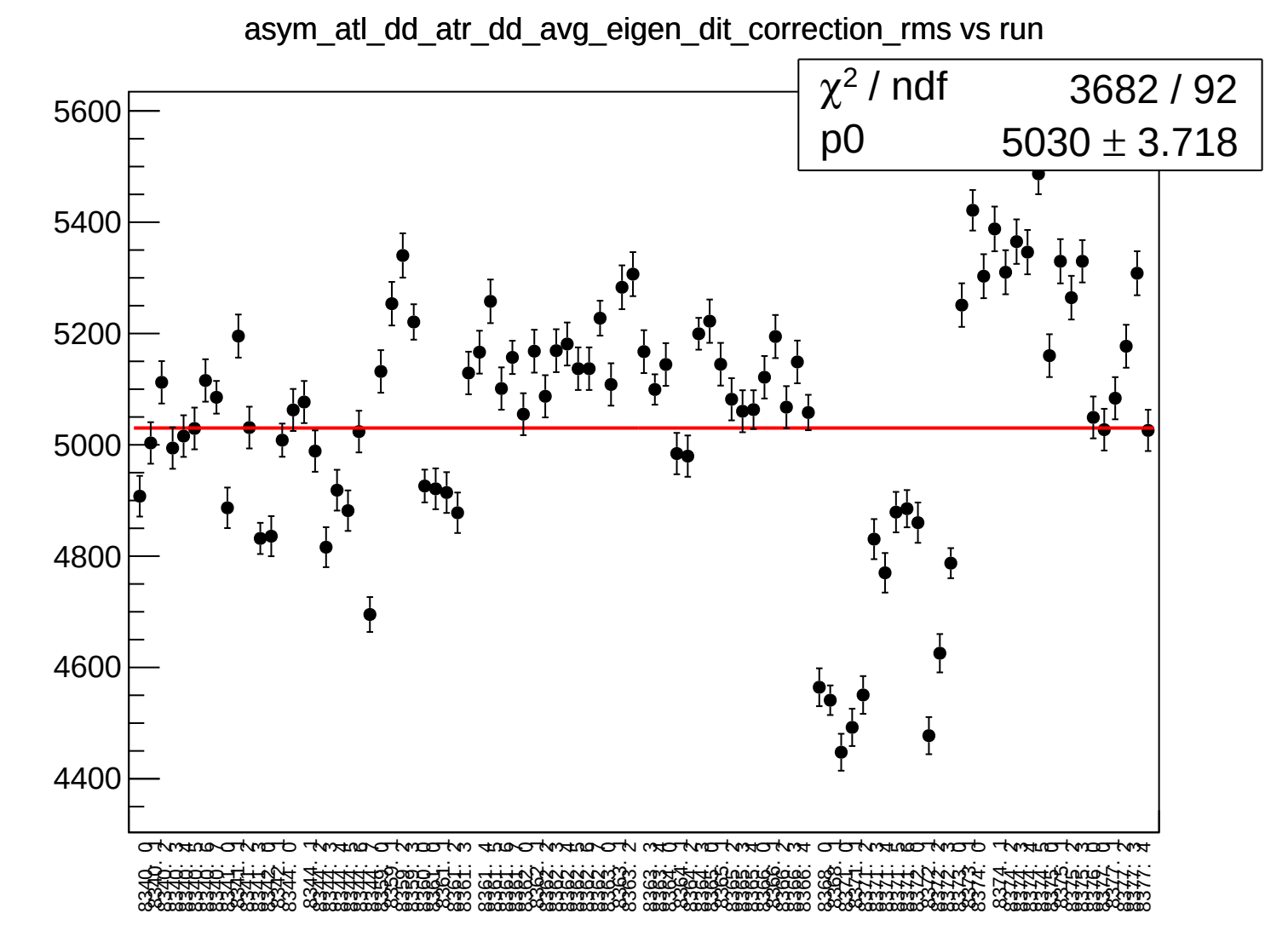

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
pull
Entries 93
Mean −226.5
Std Dev 0
pull1D
Entries 93
Mean −0.01256
Std Dev 1.044

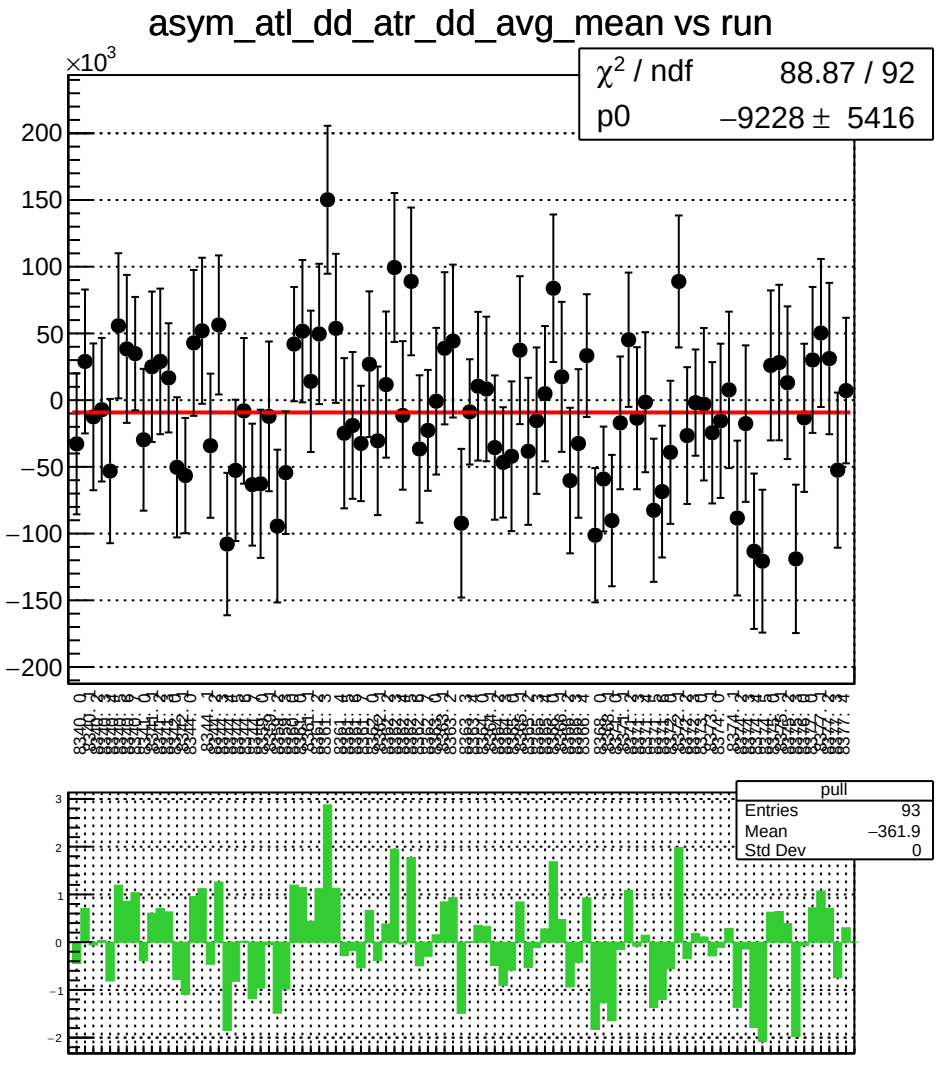

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

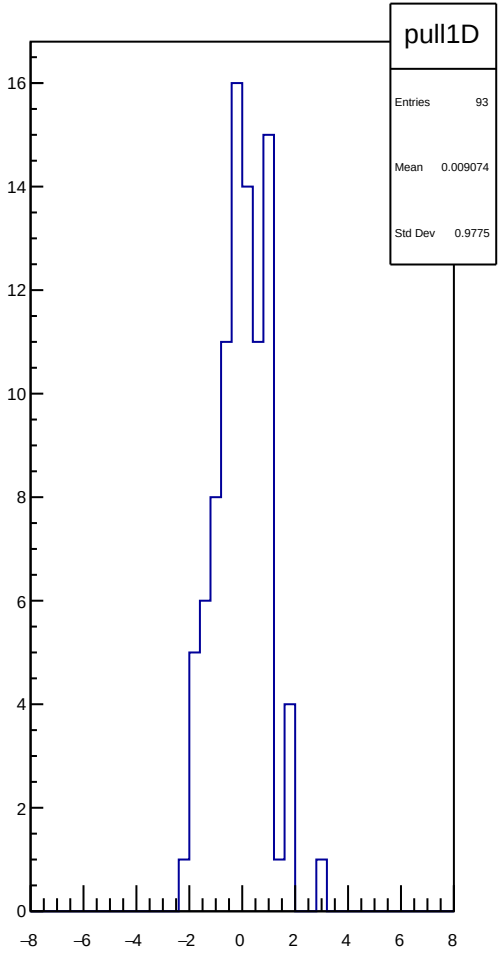

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

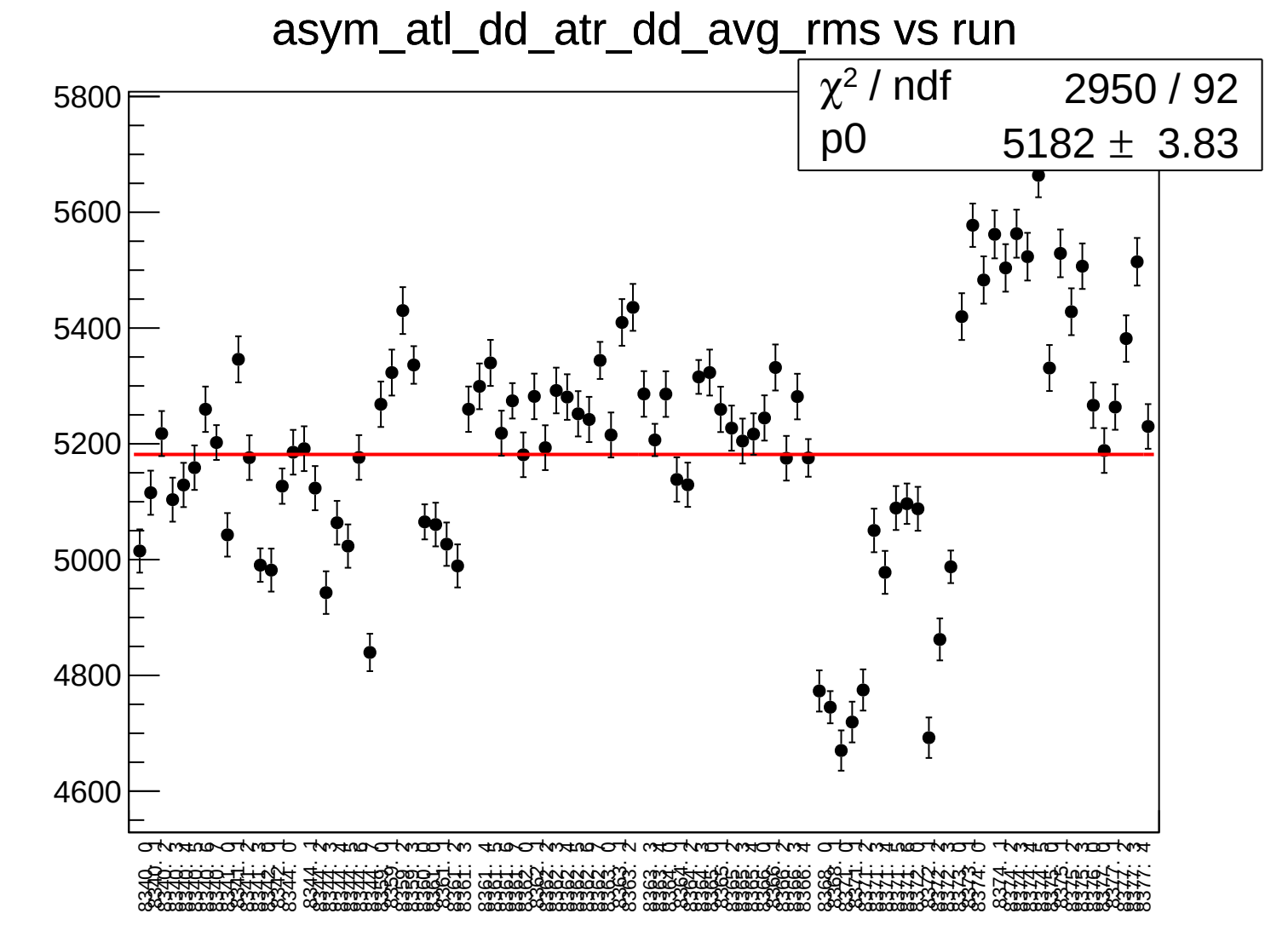

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

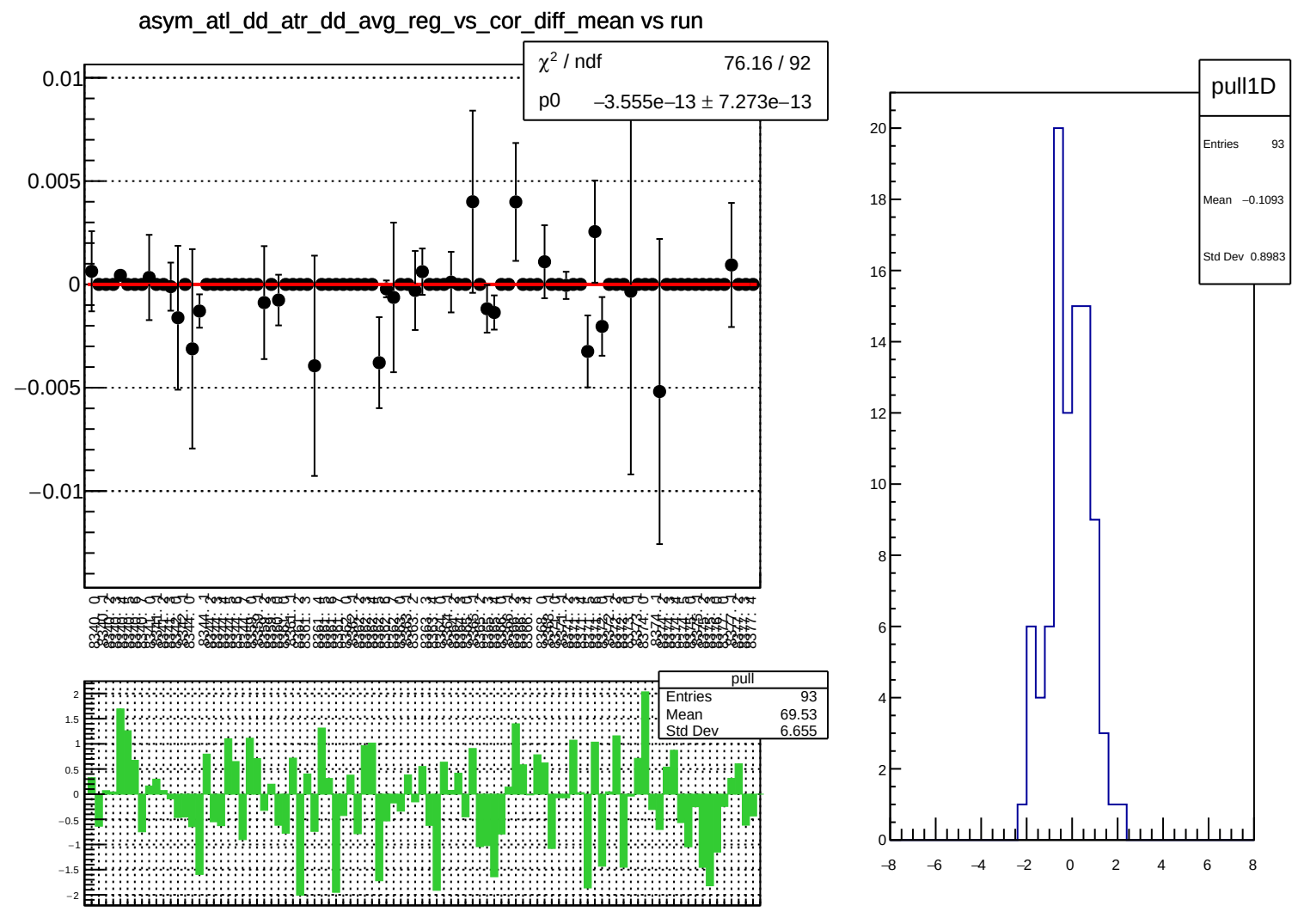

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −226.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01256
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

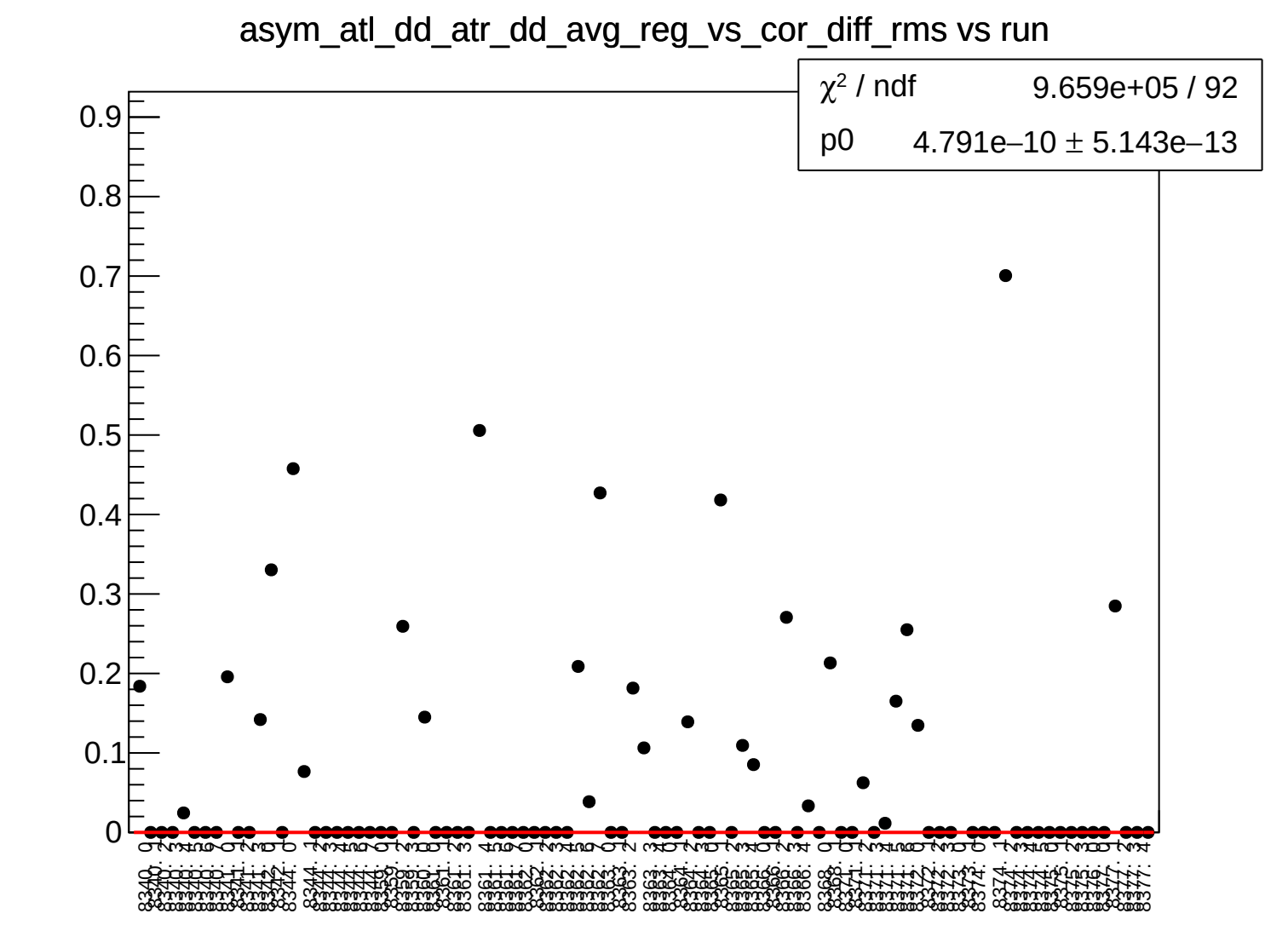

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

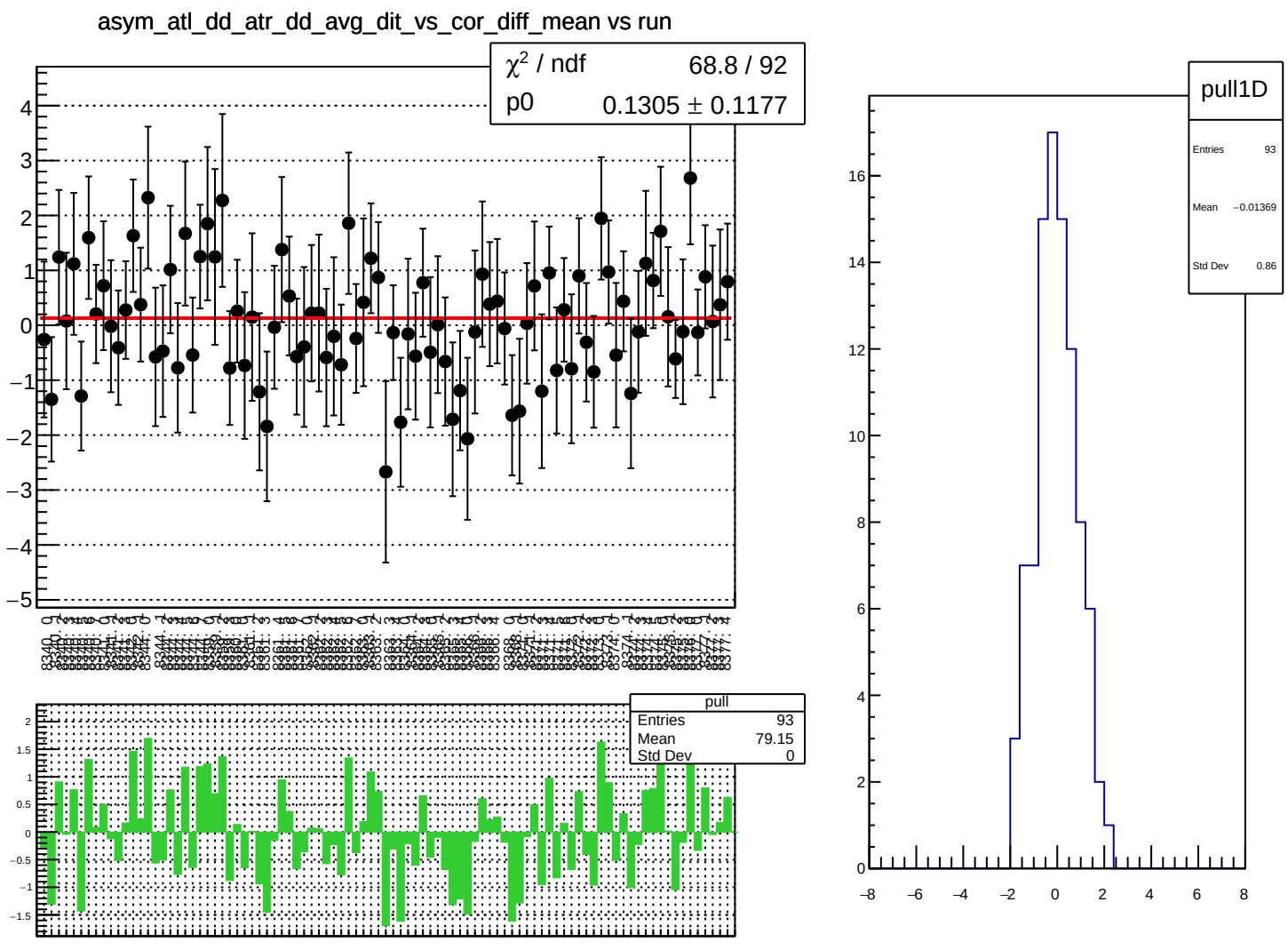

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 88.87 / 92
p0 −9228 ± 5416
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −361.9
Std Dev 0
3
2
1
0
−1
−2

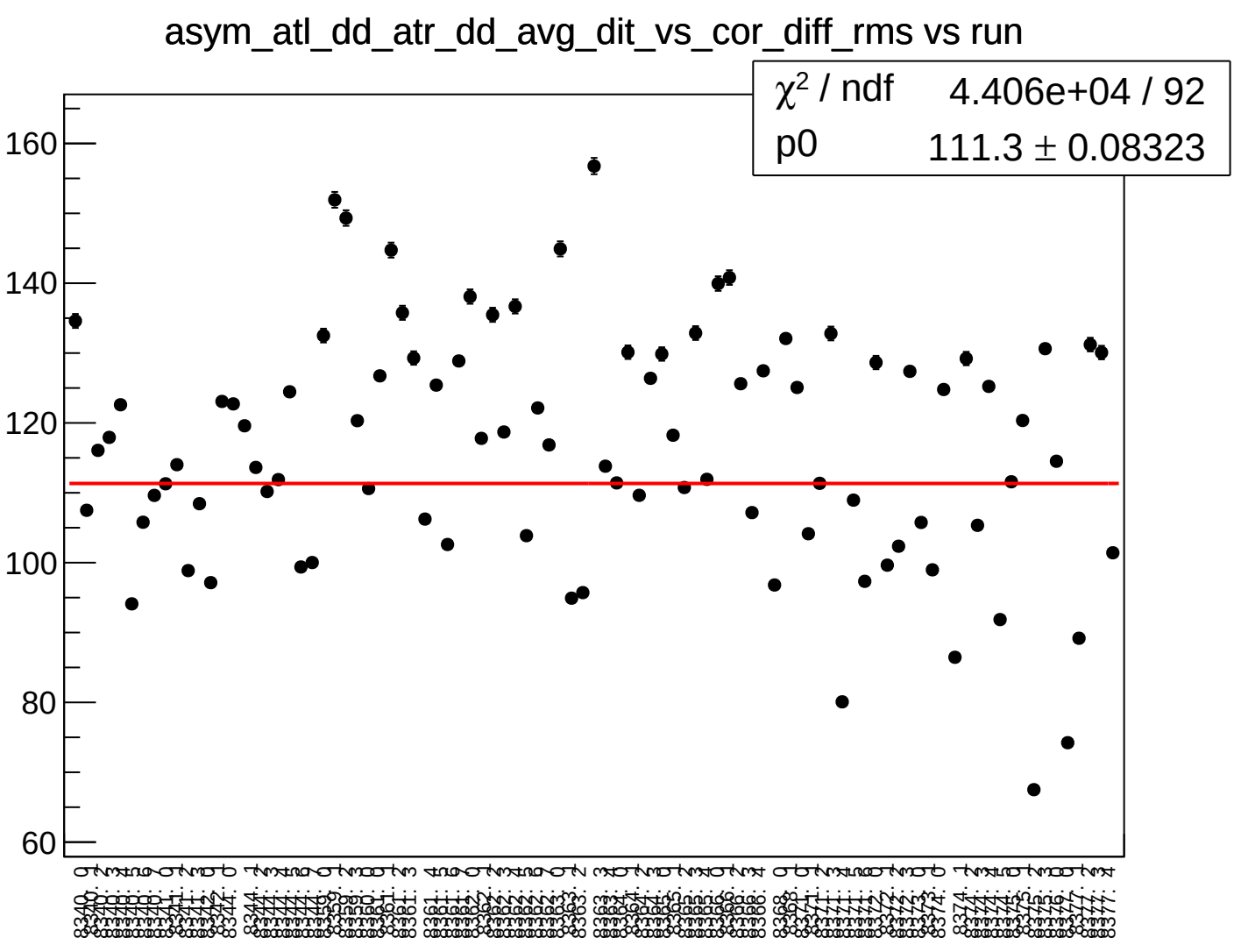

pull1D
Entries 93
Mean 0.009074
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

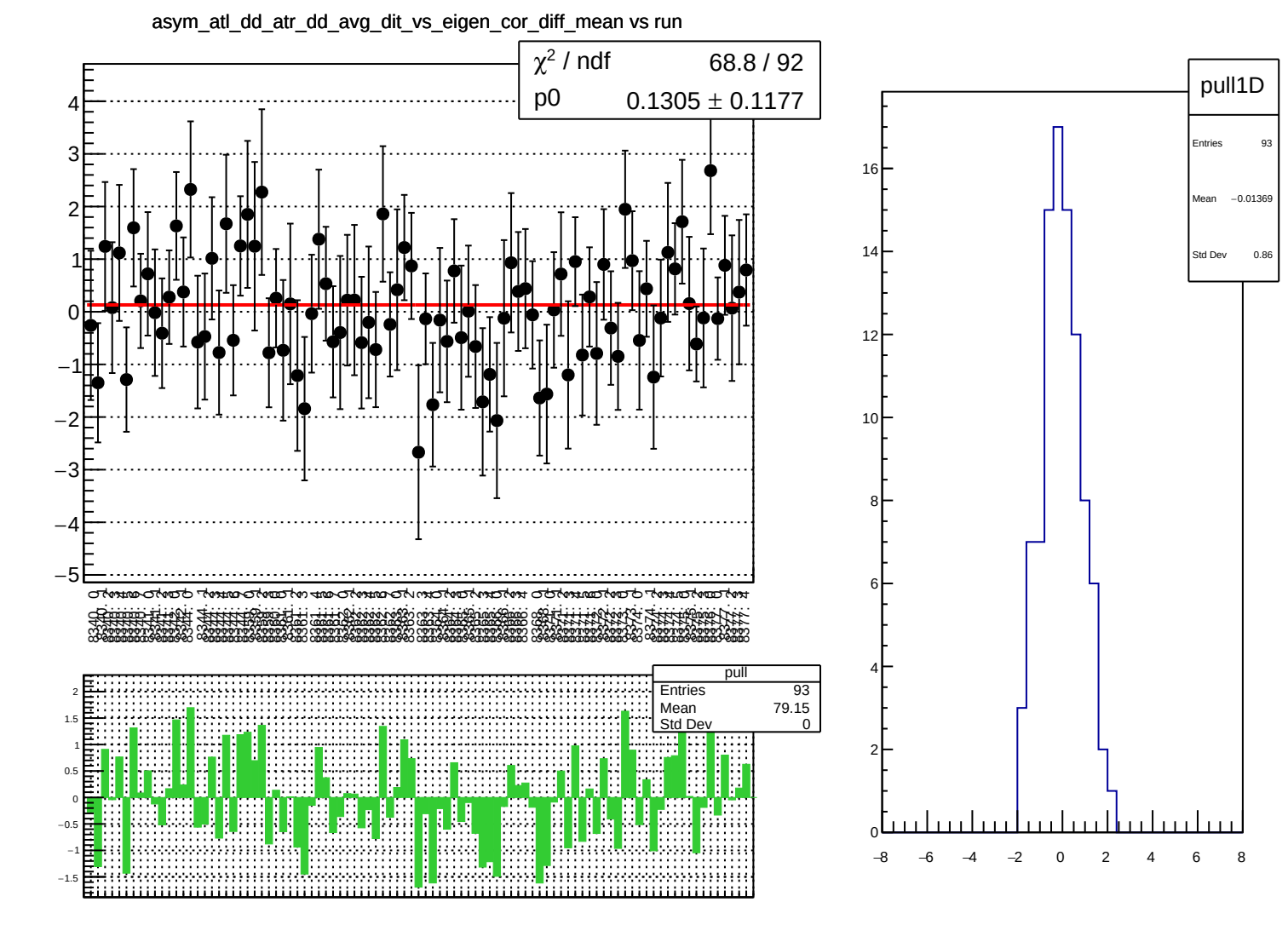

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2950 / 92
p0 5182 ± 3.83
5800
5600
5400
5200
5000
4800
4600

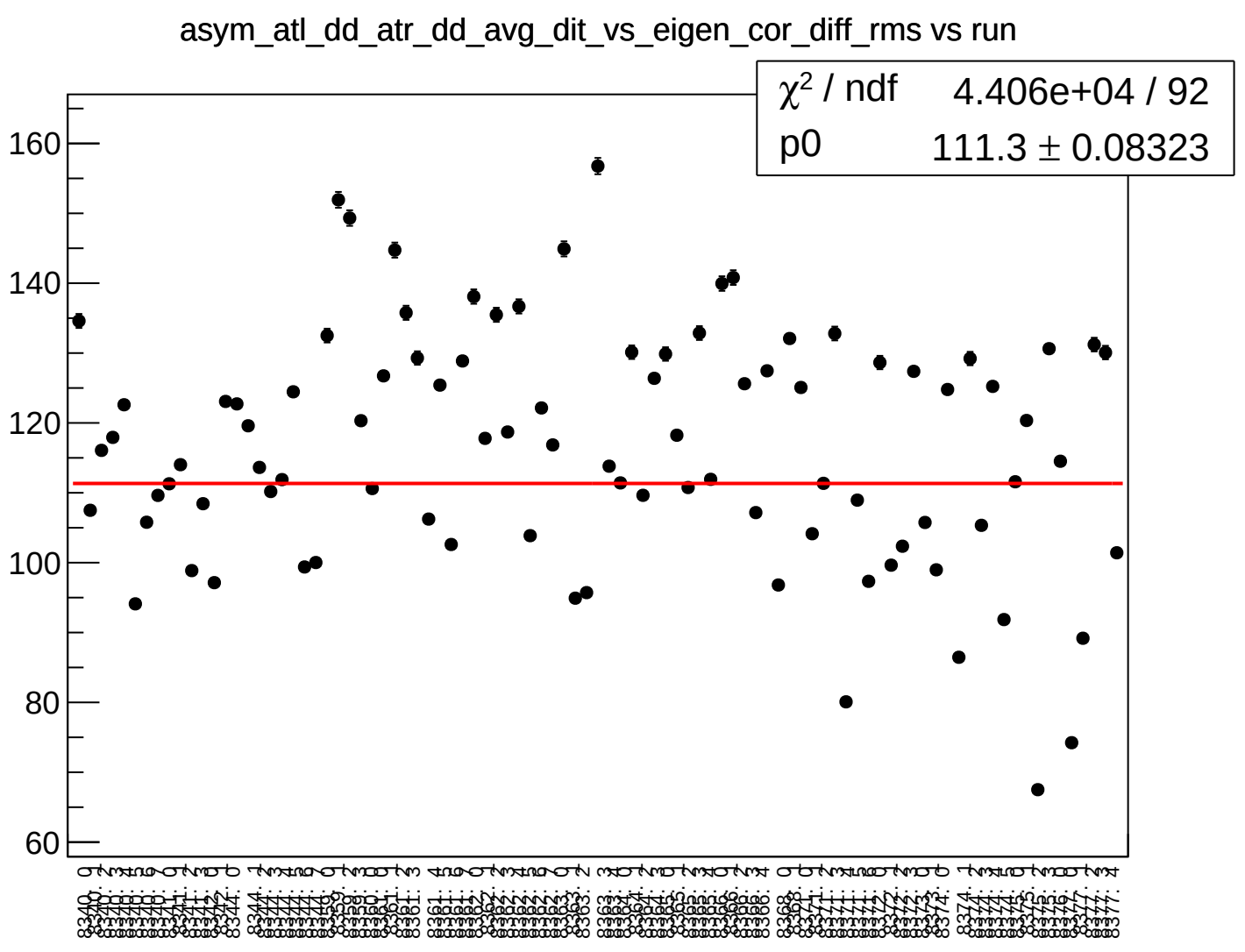

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.16 / 92
p0 −3.555e−13 ± 7.273e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 69.53
Std Dev 6.655
pull1D
Entries 93
Mean −0.1093
Std Dev 0.8983

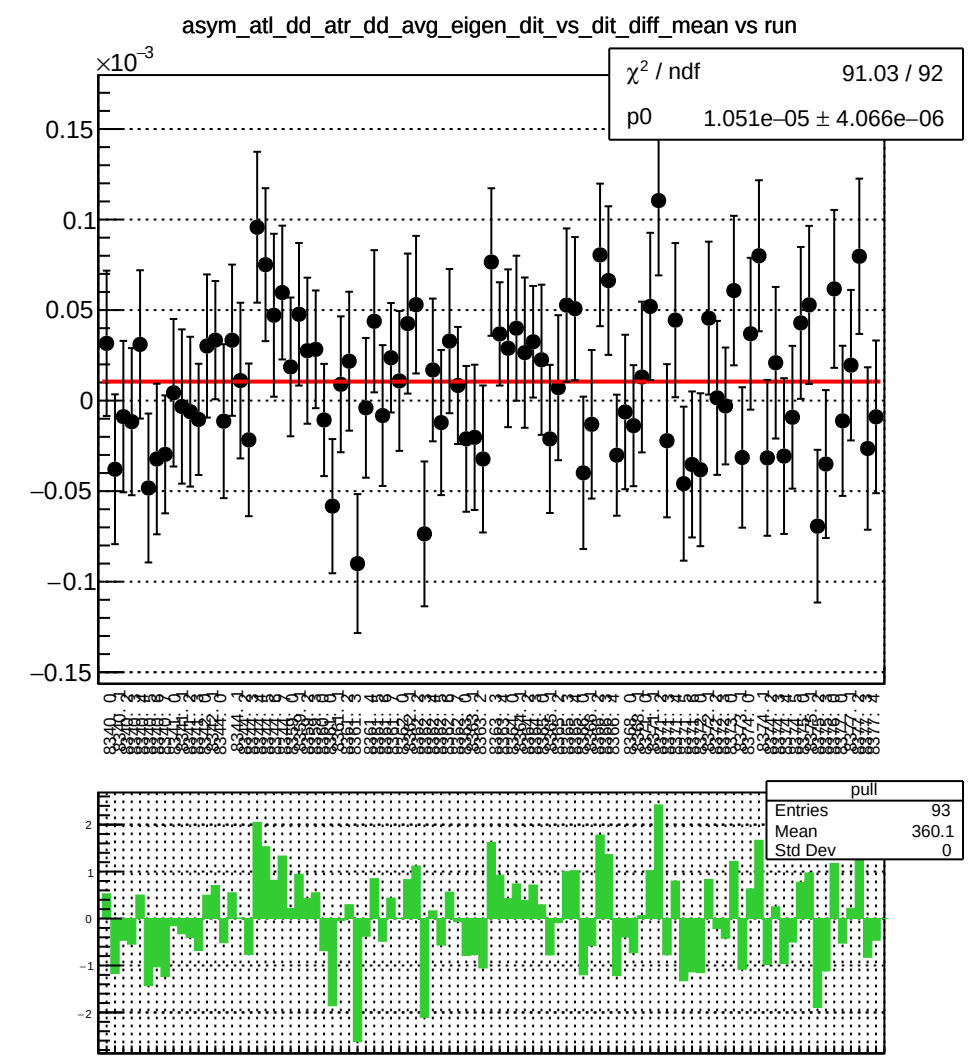

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.659e+05 / 92
p0 4.791e−10 ± 5.143e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

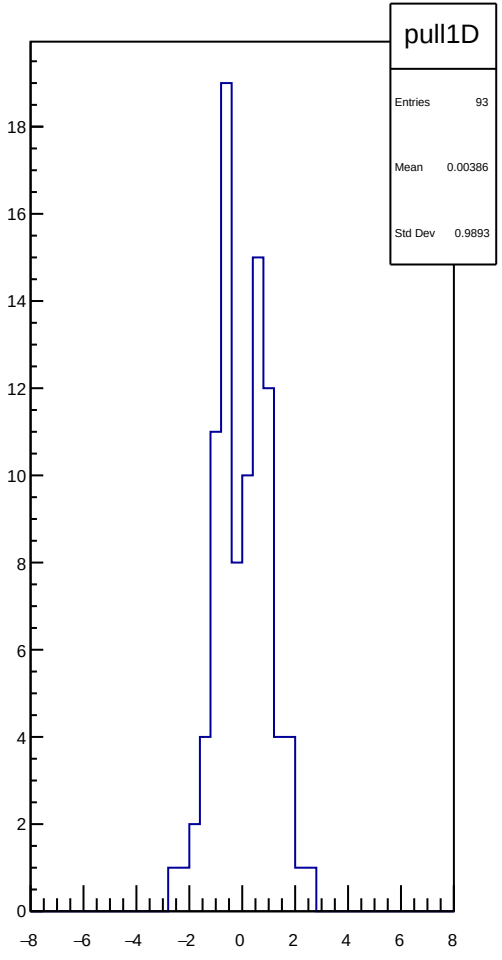

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

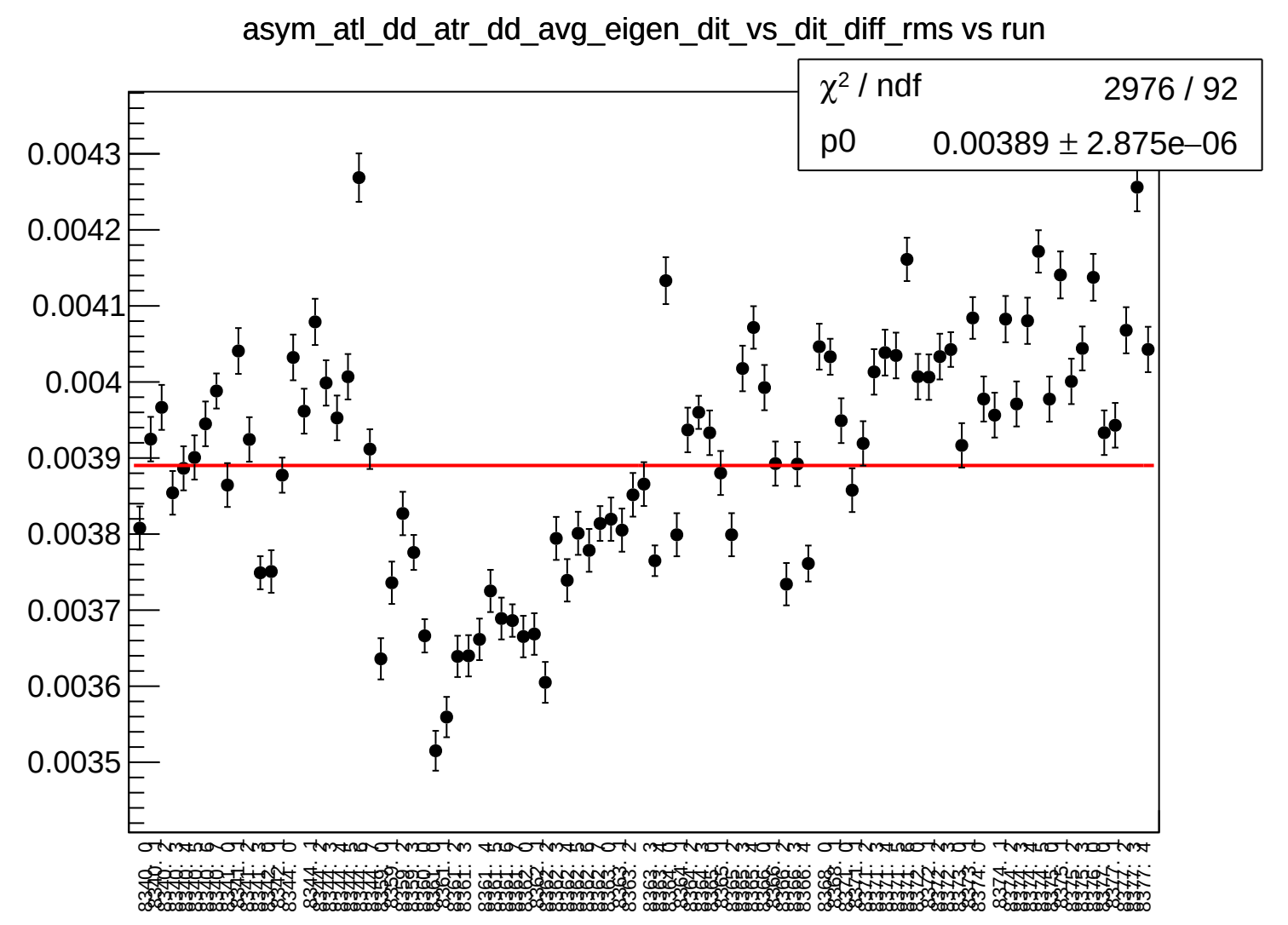

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

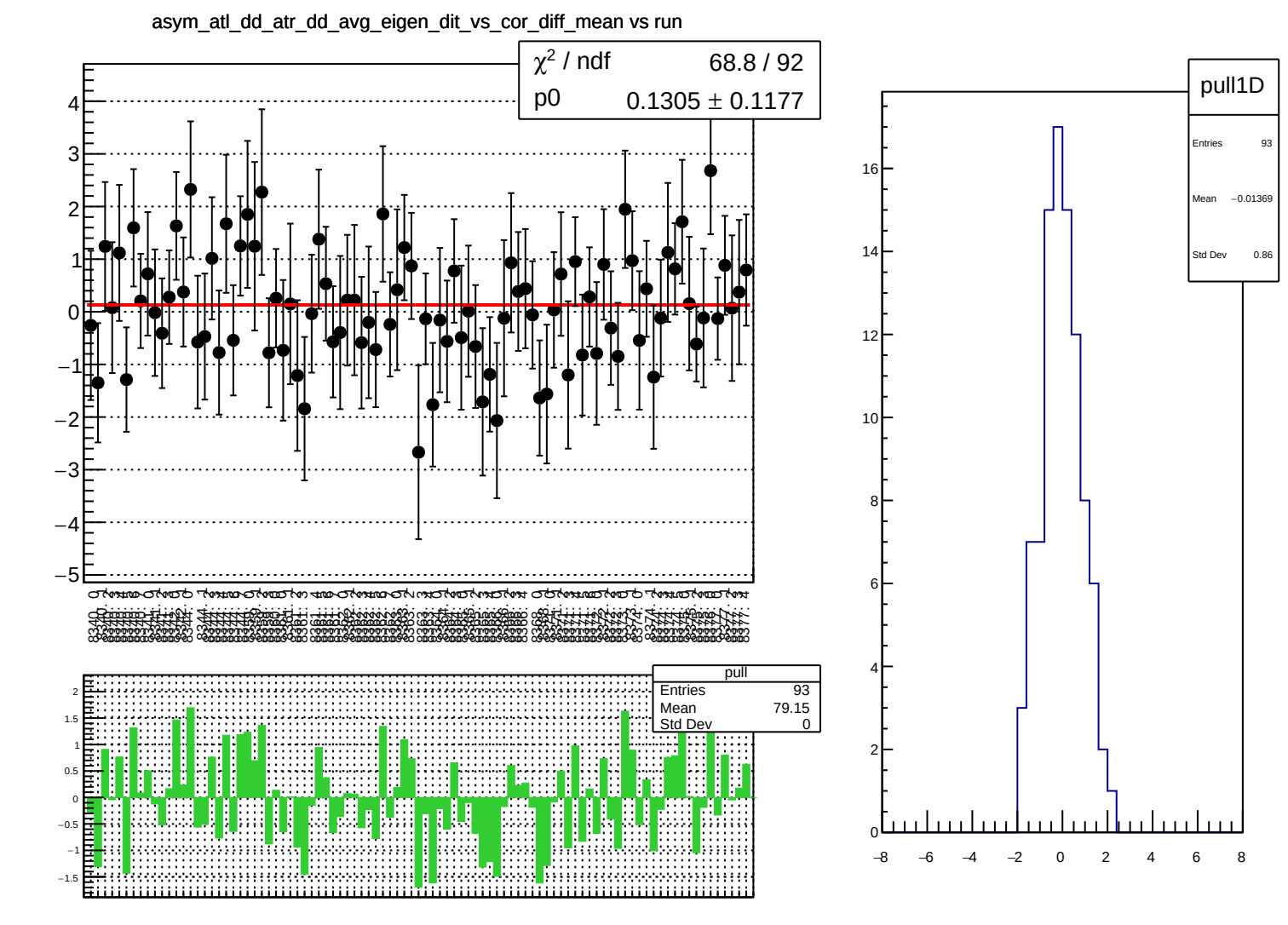

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

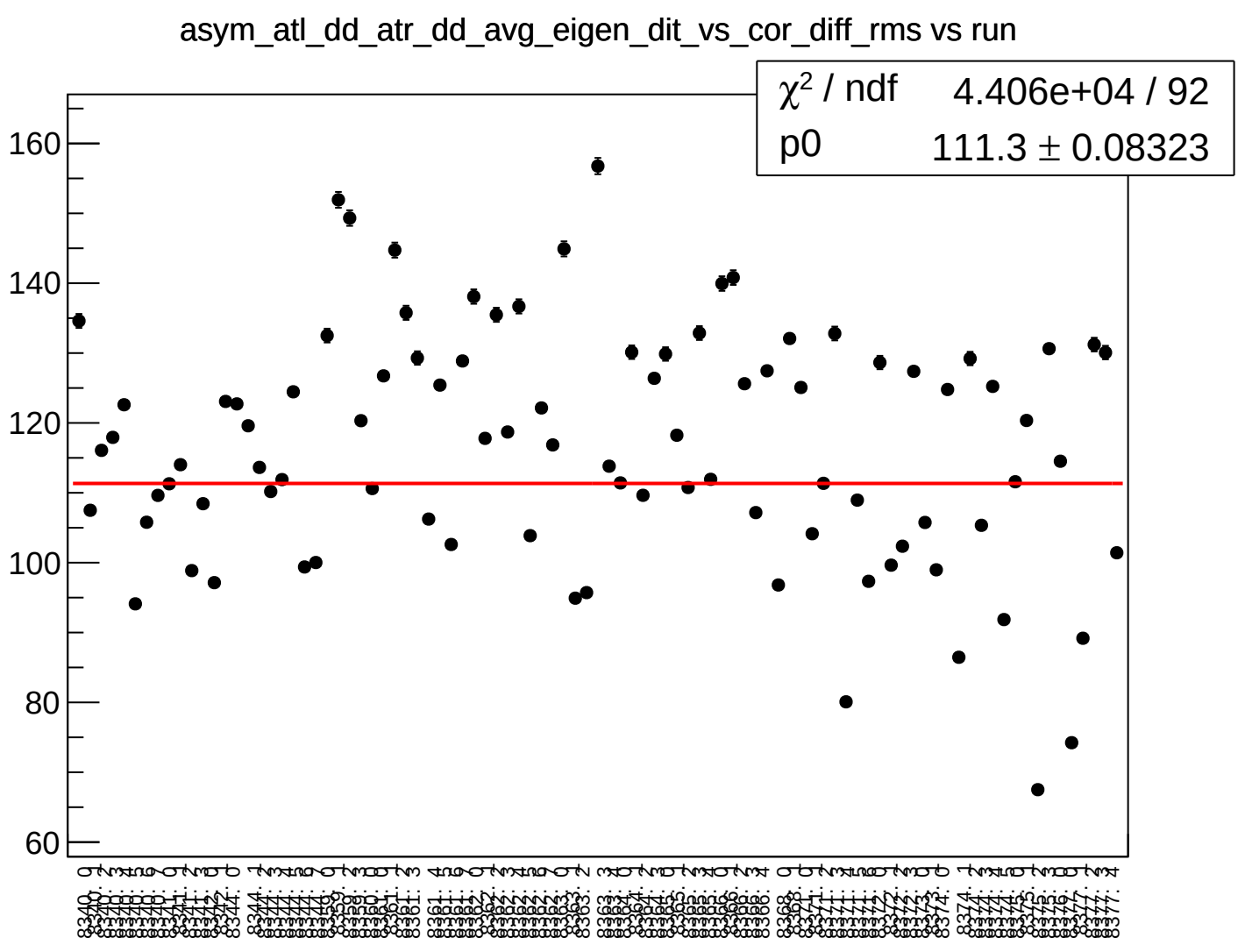

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

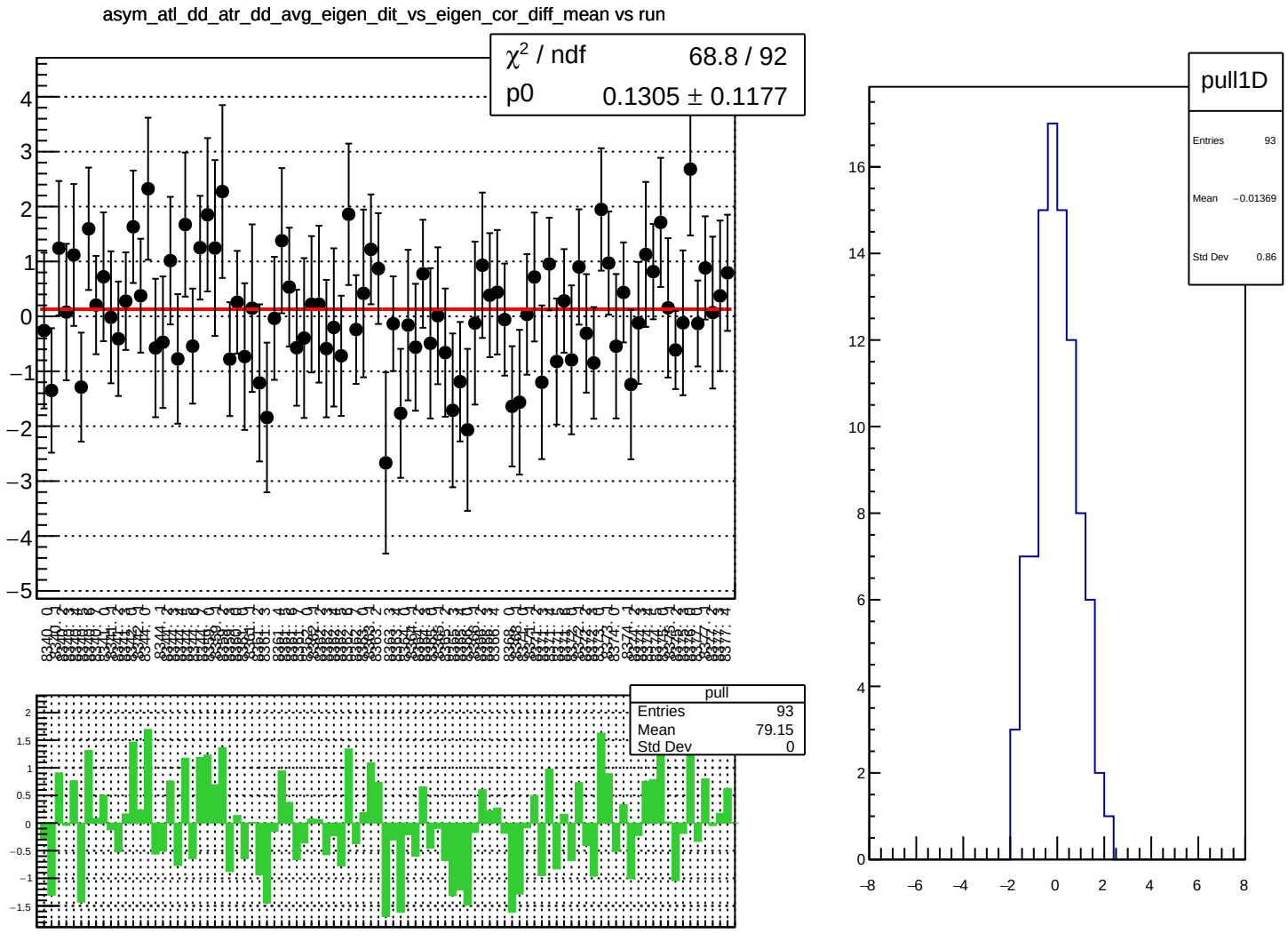

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.03 / 92
p0 1.051e−05 ± 4.066e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 360.1
Std Dev 0
2
1
0
−1
−2

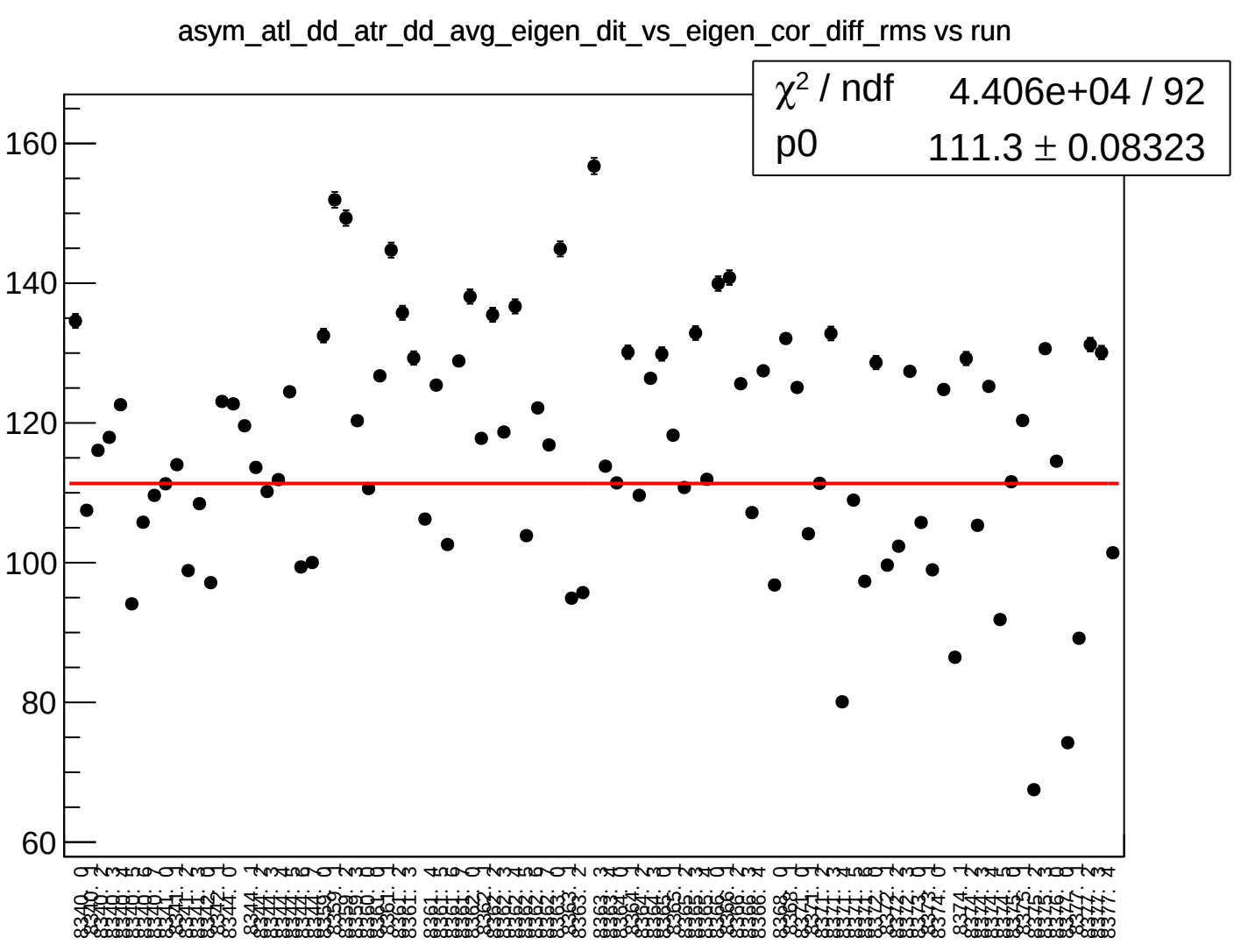

pull1D
Entries 93
Mean 0.00386
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

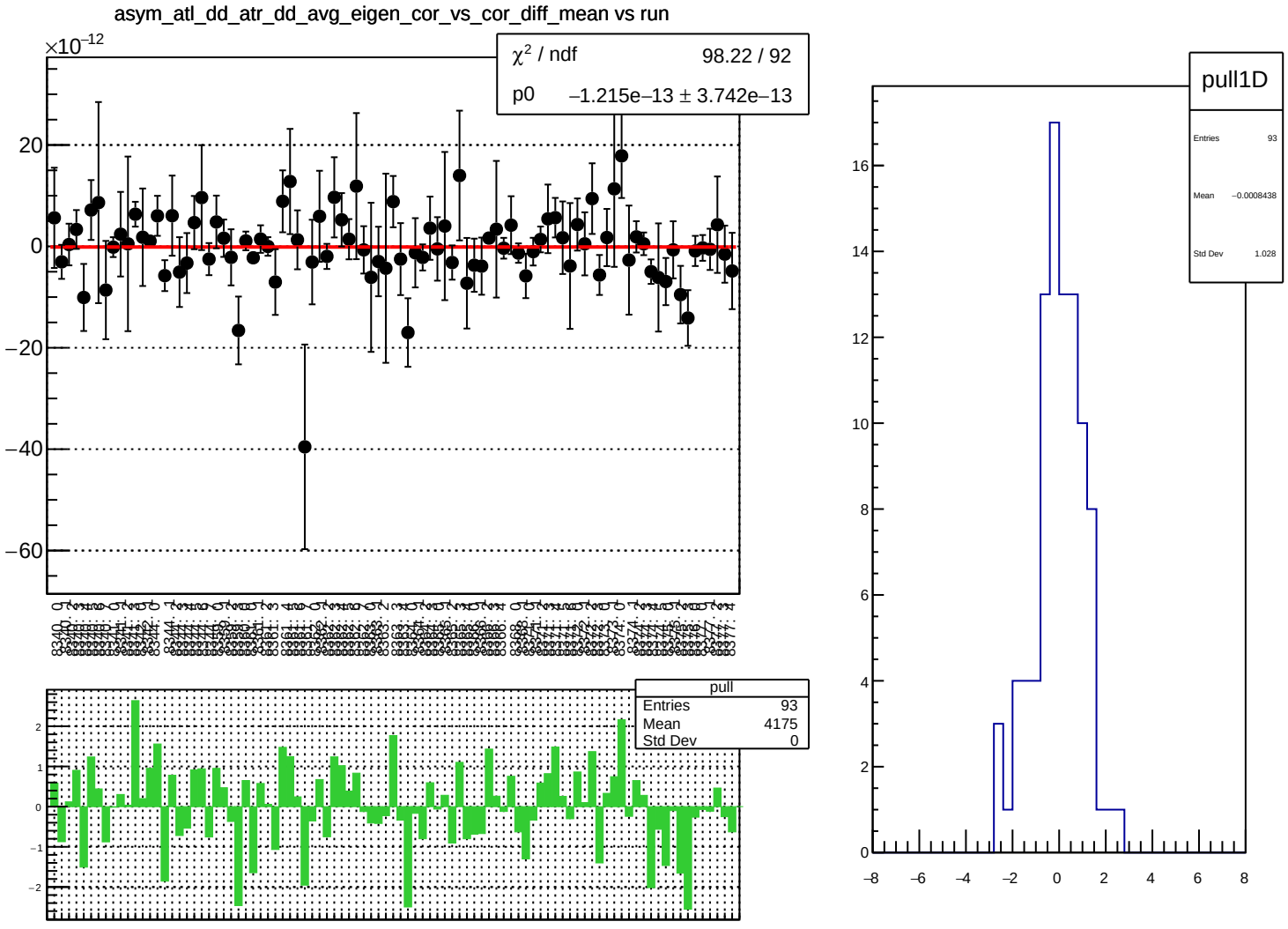

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2976 / 92
p0 0.00389 ± 2.875e–06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035

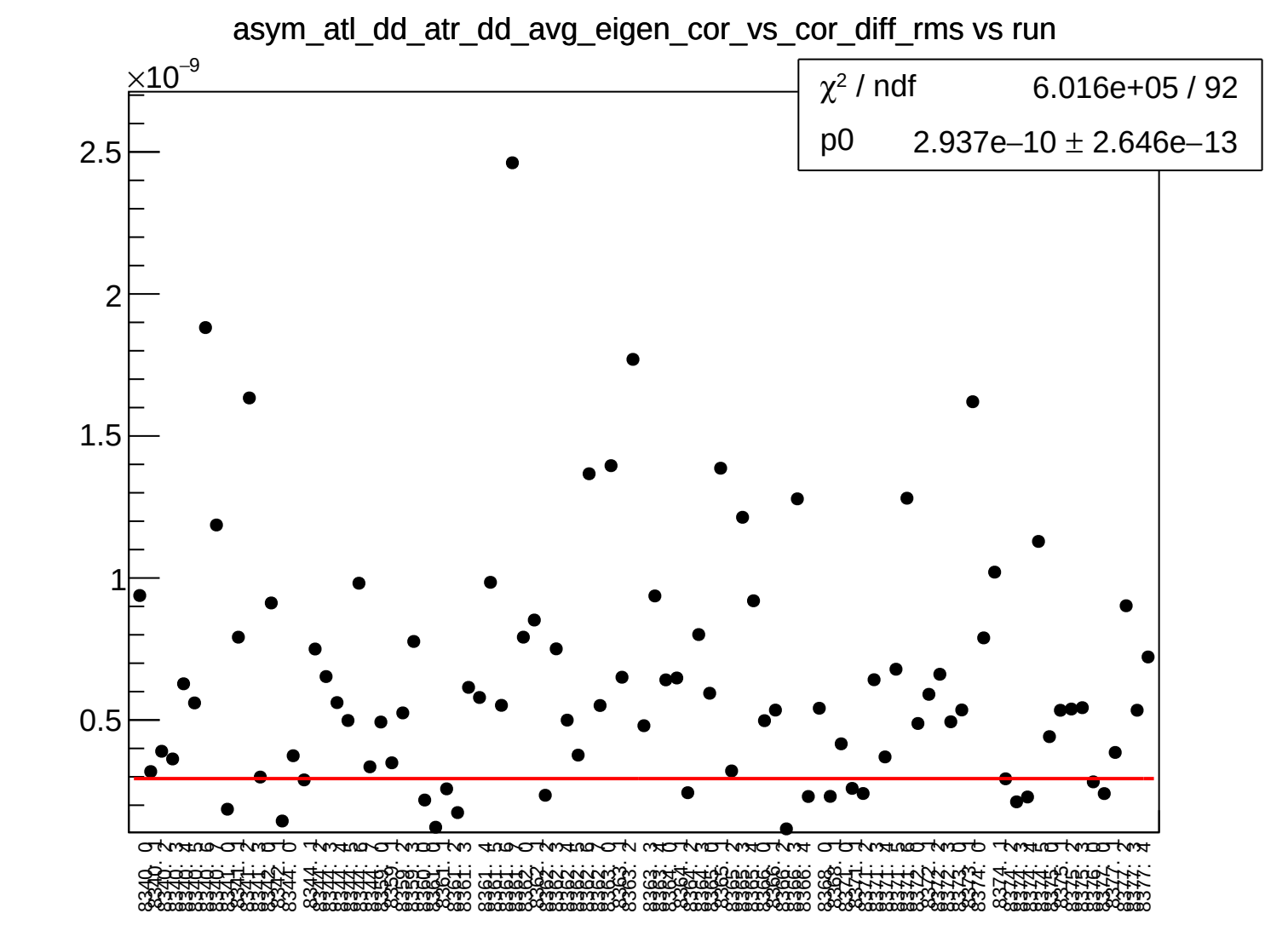

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

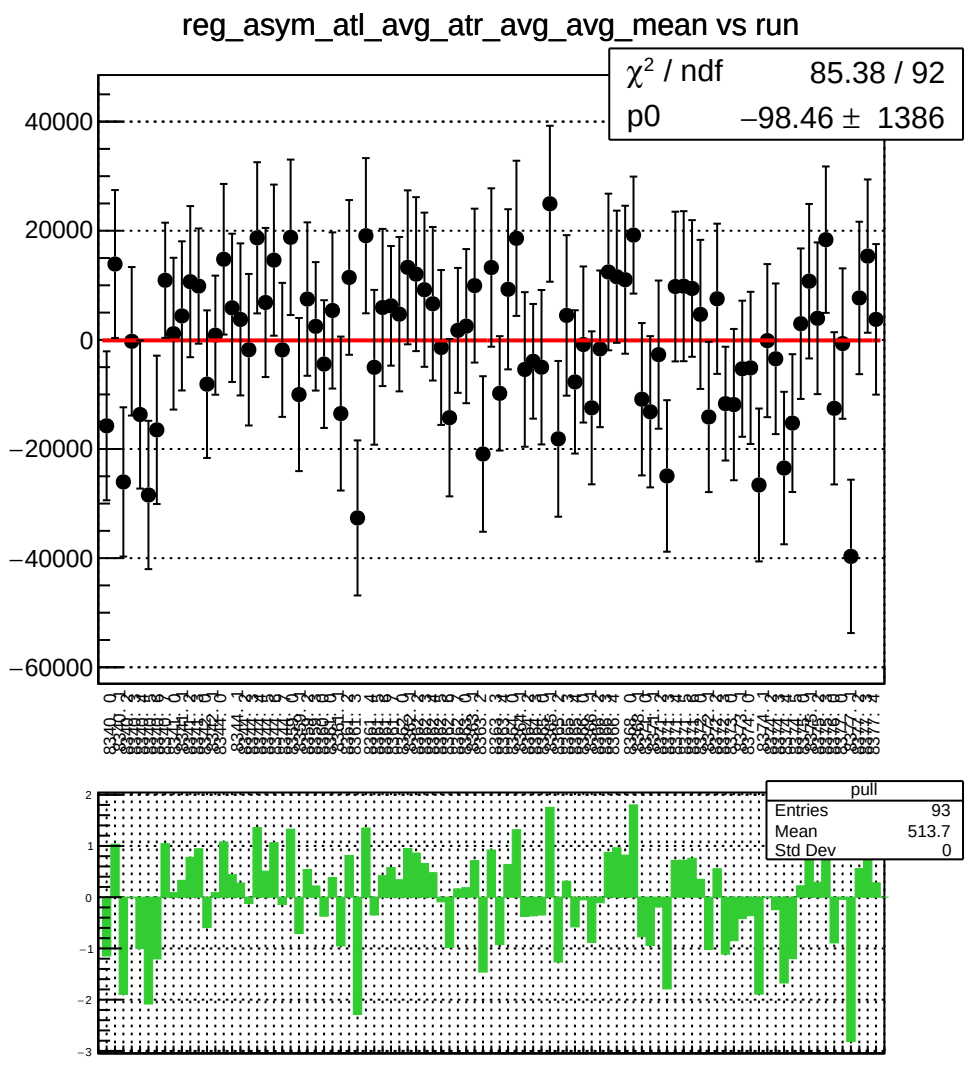

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

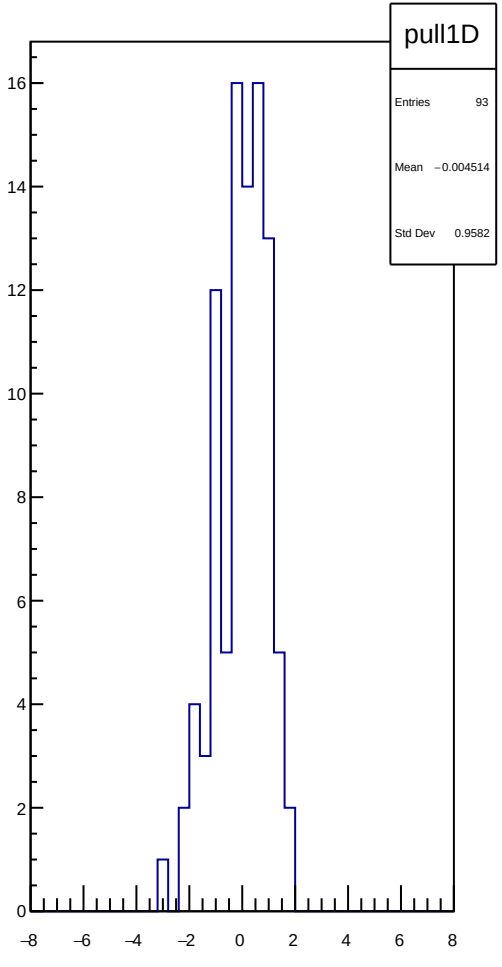

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

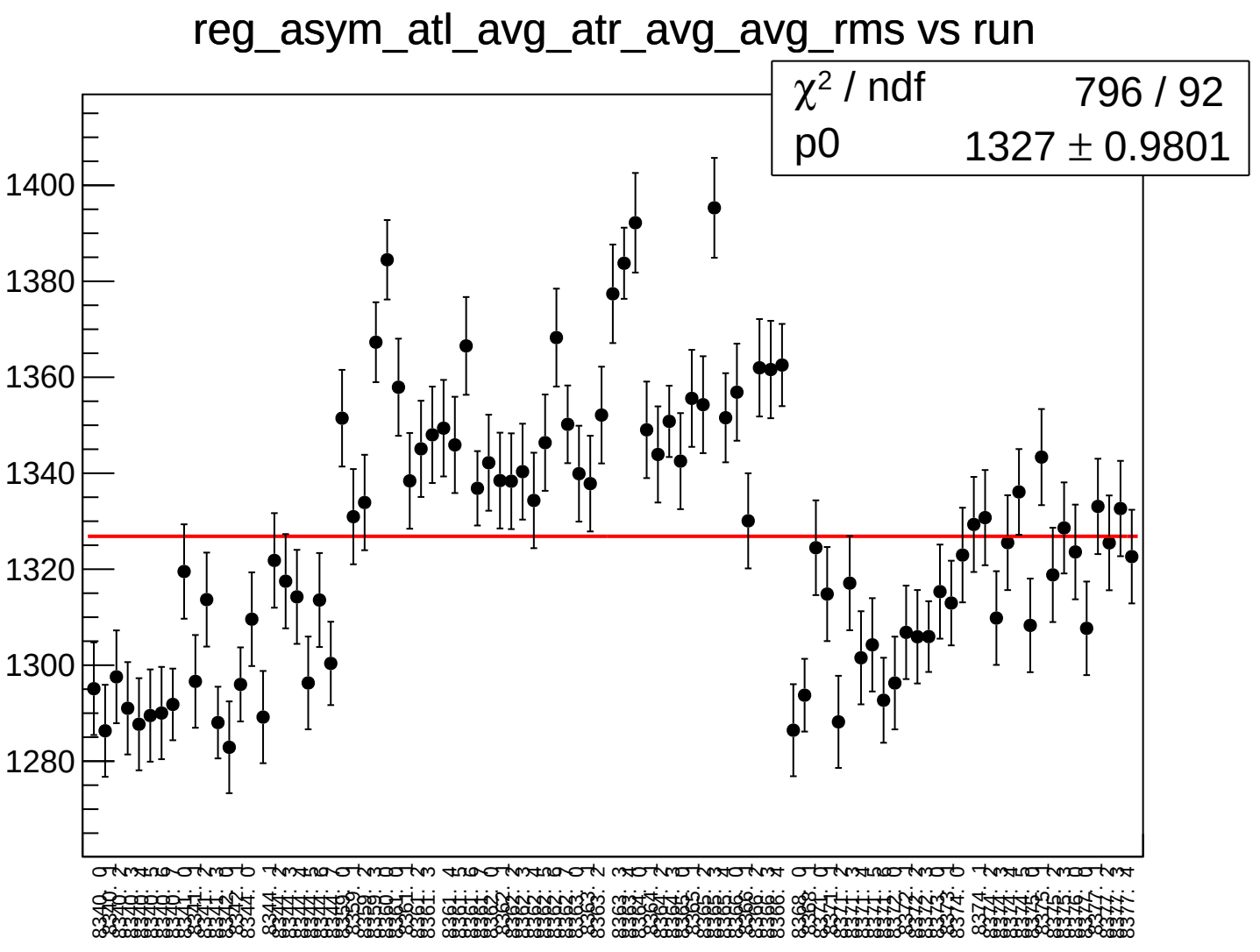

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

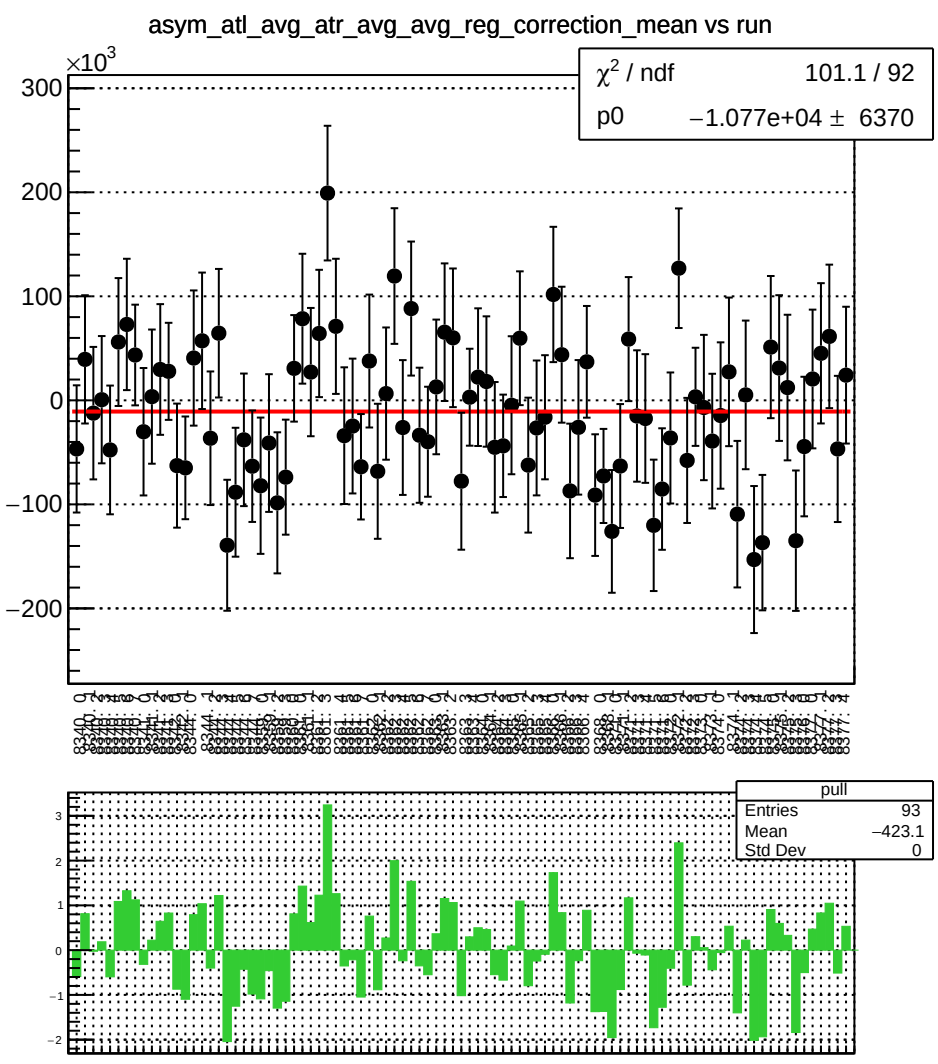

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.22 / 92
p0 −1.215e−13 ± 3.742e−13
20
0
−20
−40
−60
pull
Entries 93
Mean 4175
Std Dev 0
pull1D
Entries 93
Mean −0.0008438
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

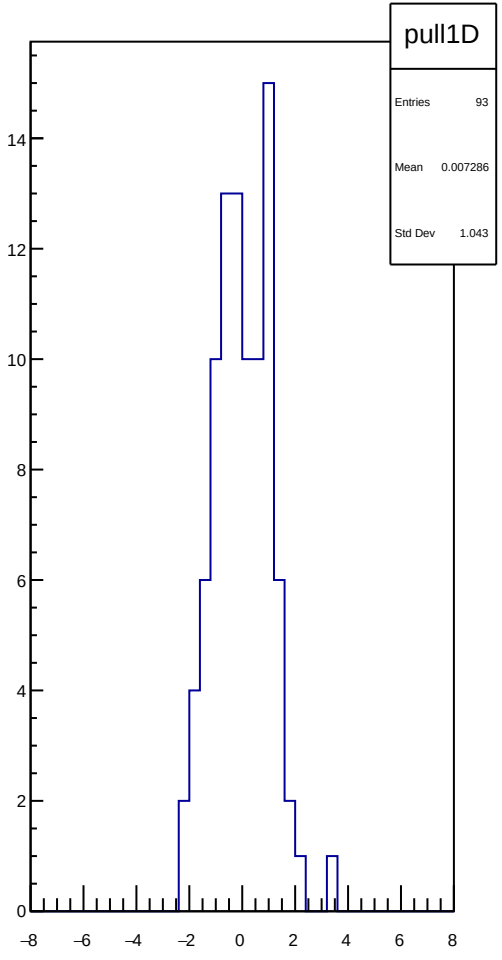

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.016e+05 / 92
p0 2.937e−10 ± 2.646e−13
2.5
2
1.5
1
0.5

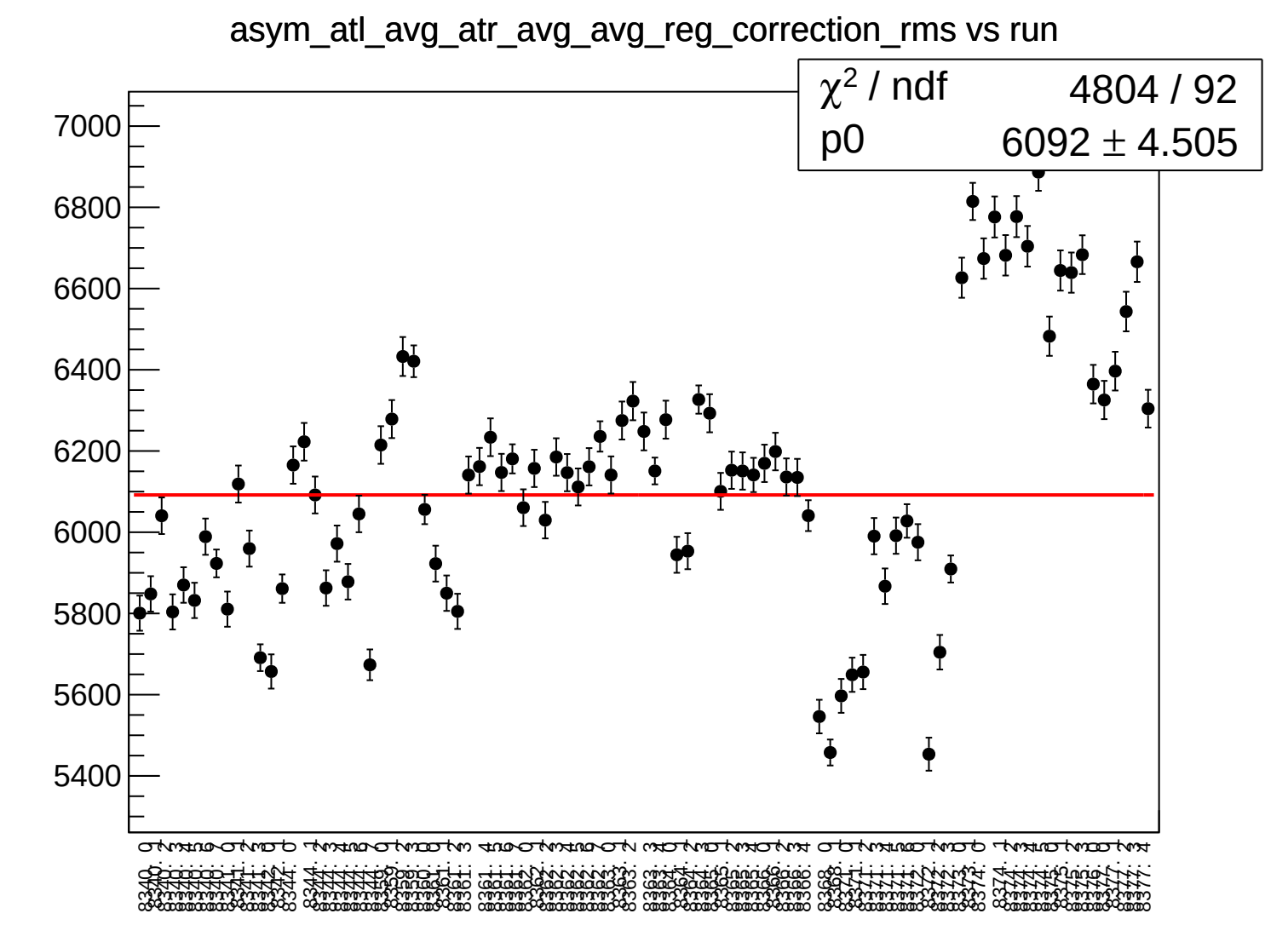

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.38 / 92
p0 −98.46 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 513.7
Std Dev 0
2
1
0
−1
−2
−3

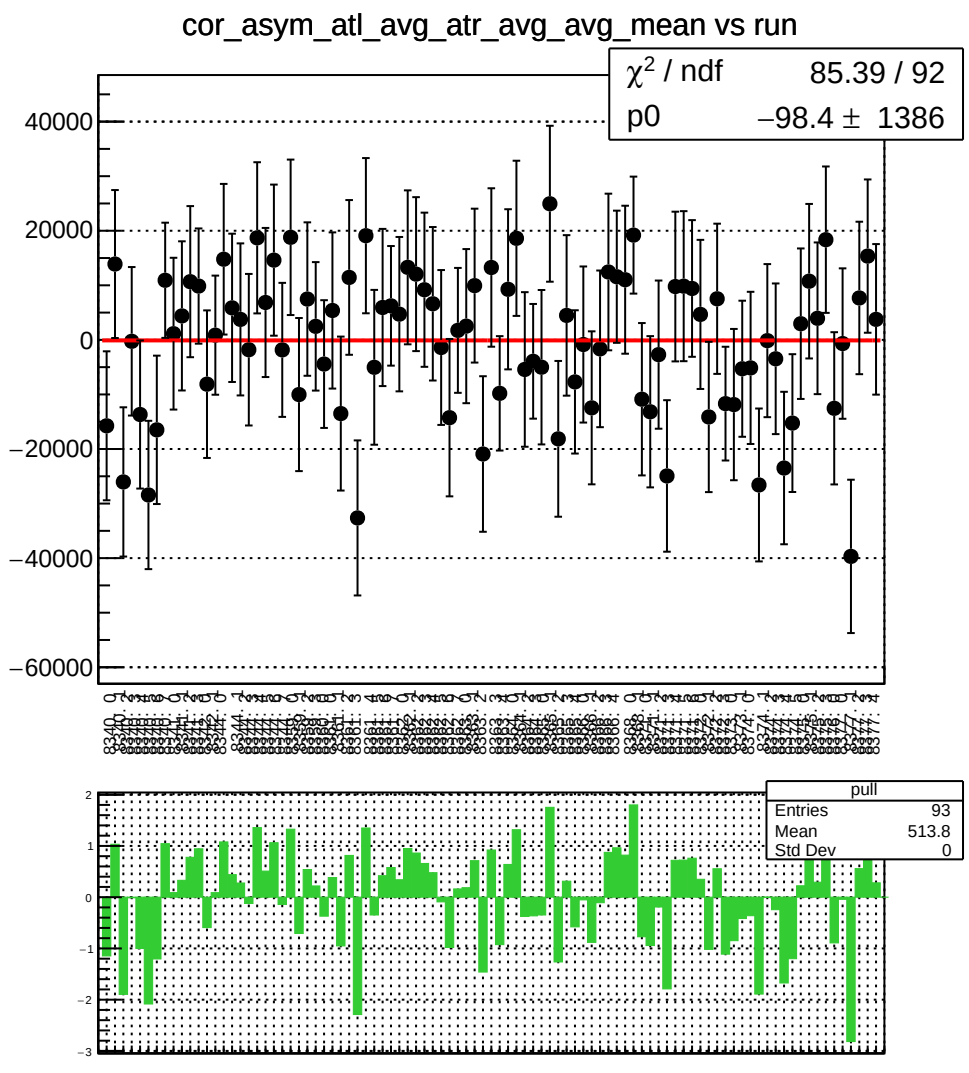

pull1D
Entries 93
Mean −0.004514
Std Dev 0.9582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

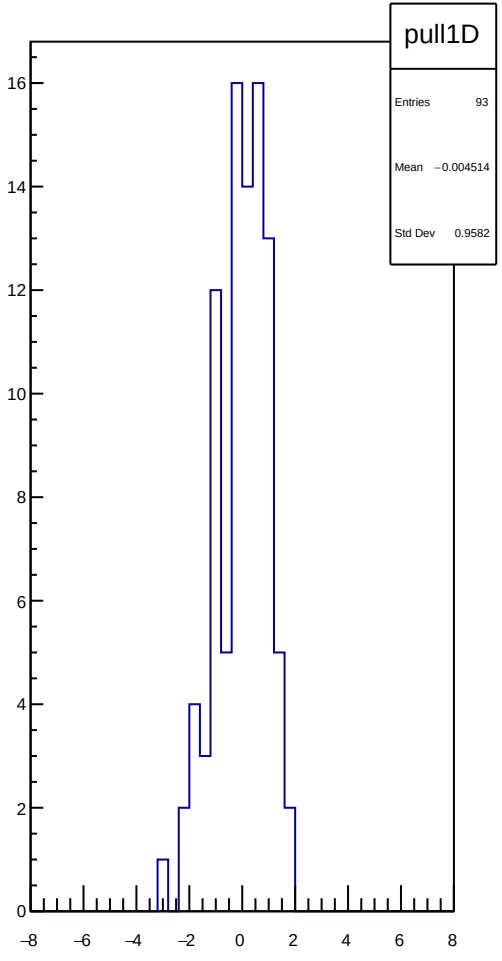

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 796 / 92
p0 1327 ± 0.9801
1400
1380
1360
1340
1320
1300
1280

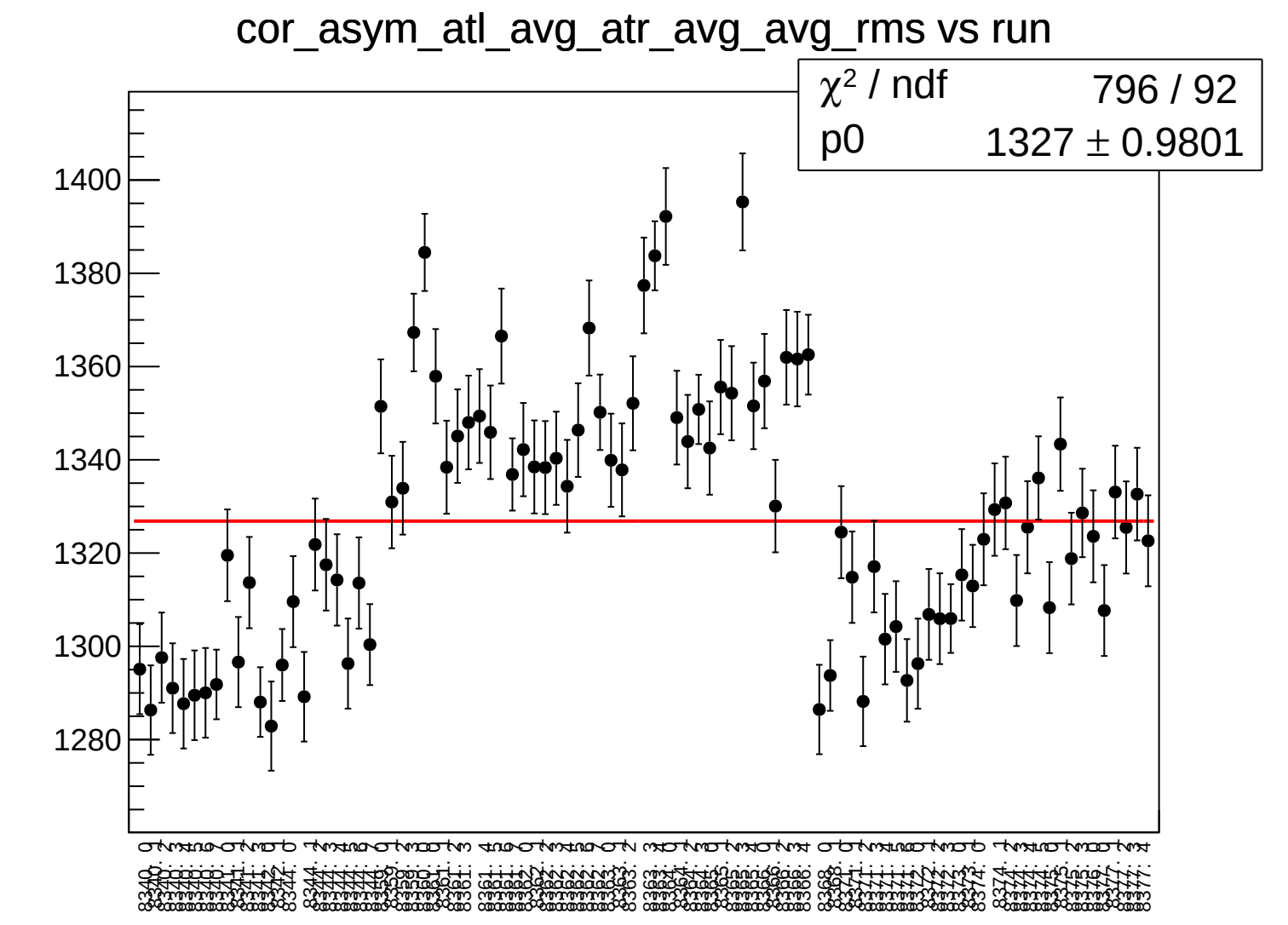

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.077e+04 ± 6370
pull
Entries 93
Mean −423.1
Std Dev 0

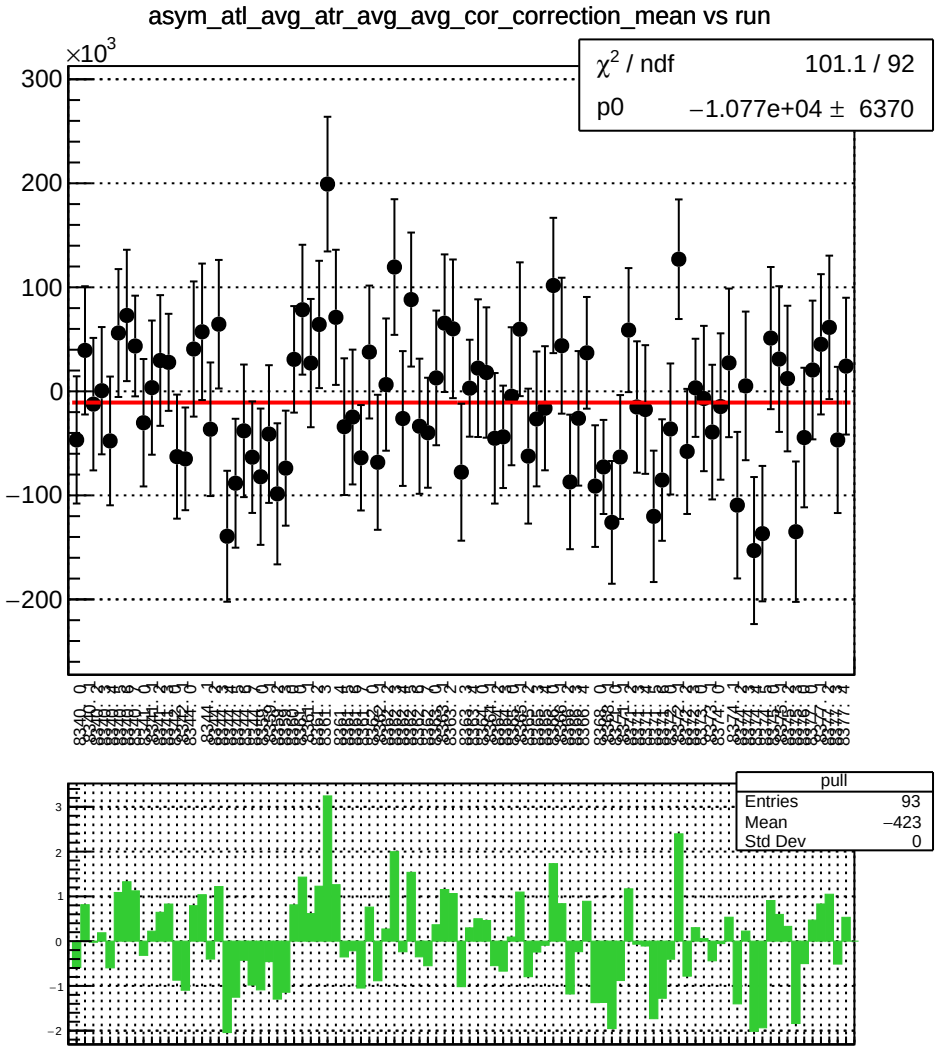

pull1D
Entries 93
Mean 0.007286
Std Dev 1.043

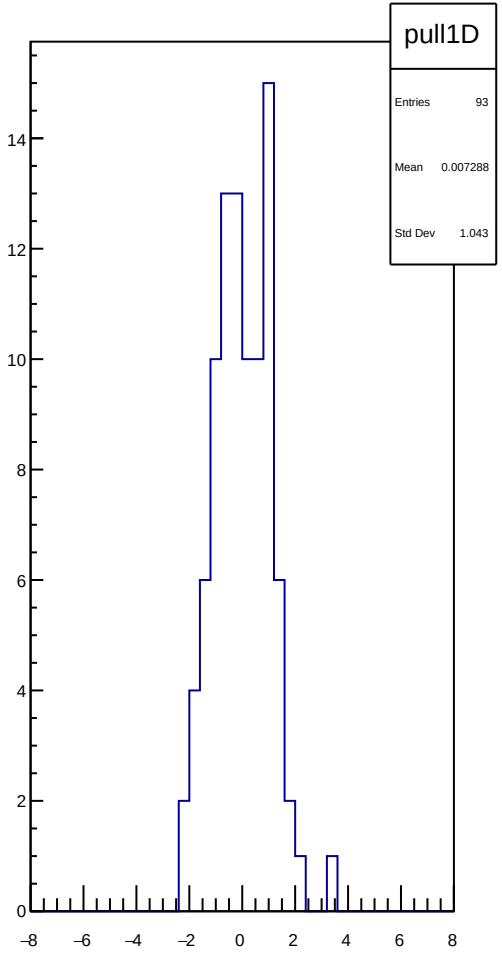

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4804 / 92
p0 6092 ± 4.505
7000
6800
6600
6400
6200
6000
5800
5600
5400

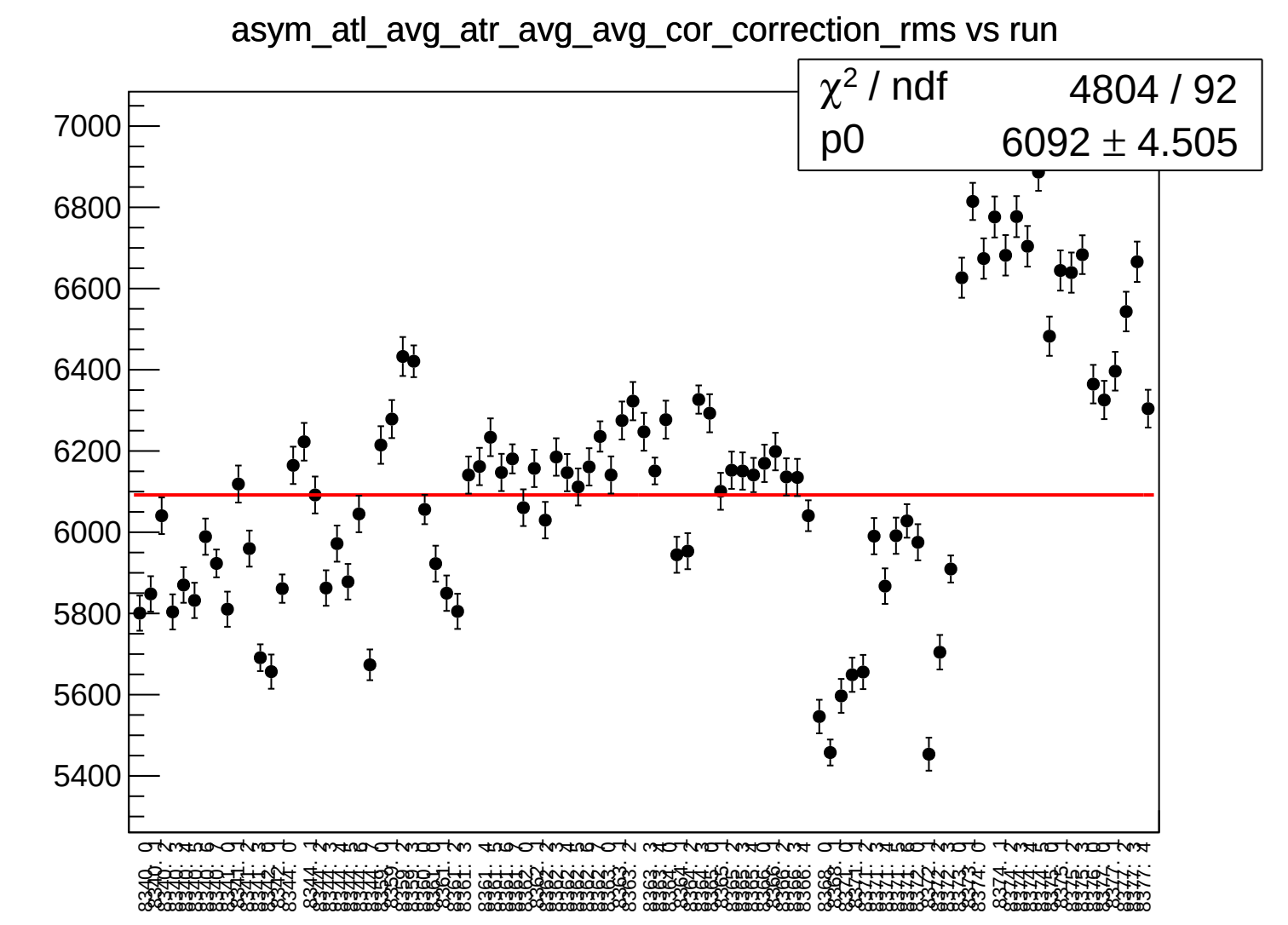

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.39 / 92
p0 −98.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 513.8
Std Dev 0
2
1
0
−1
−2
−3

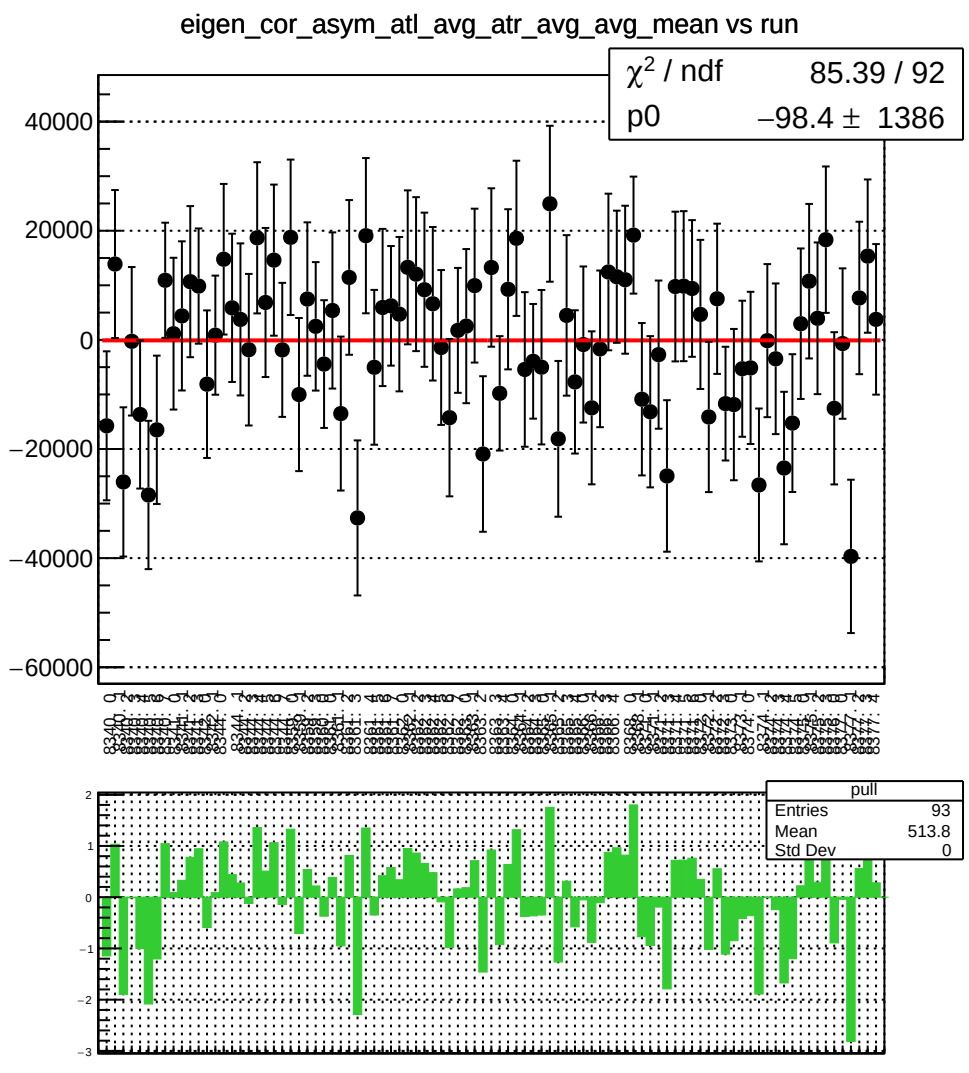

pull1D
Entries 93
Mean −0.004514
Std Dev 0.9582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

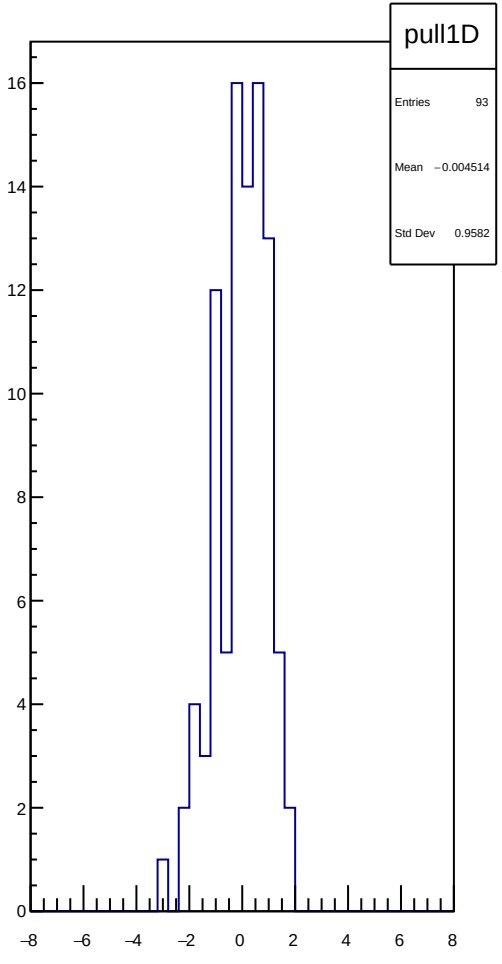

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 796 / 92
p0 1327 ± 0.9801
1400
1380
1360
1340
1320
1300
1280

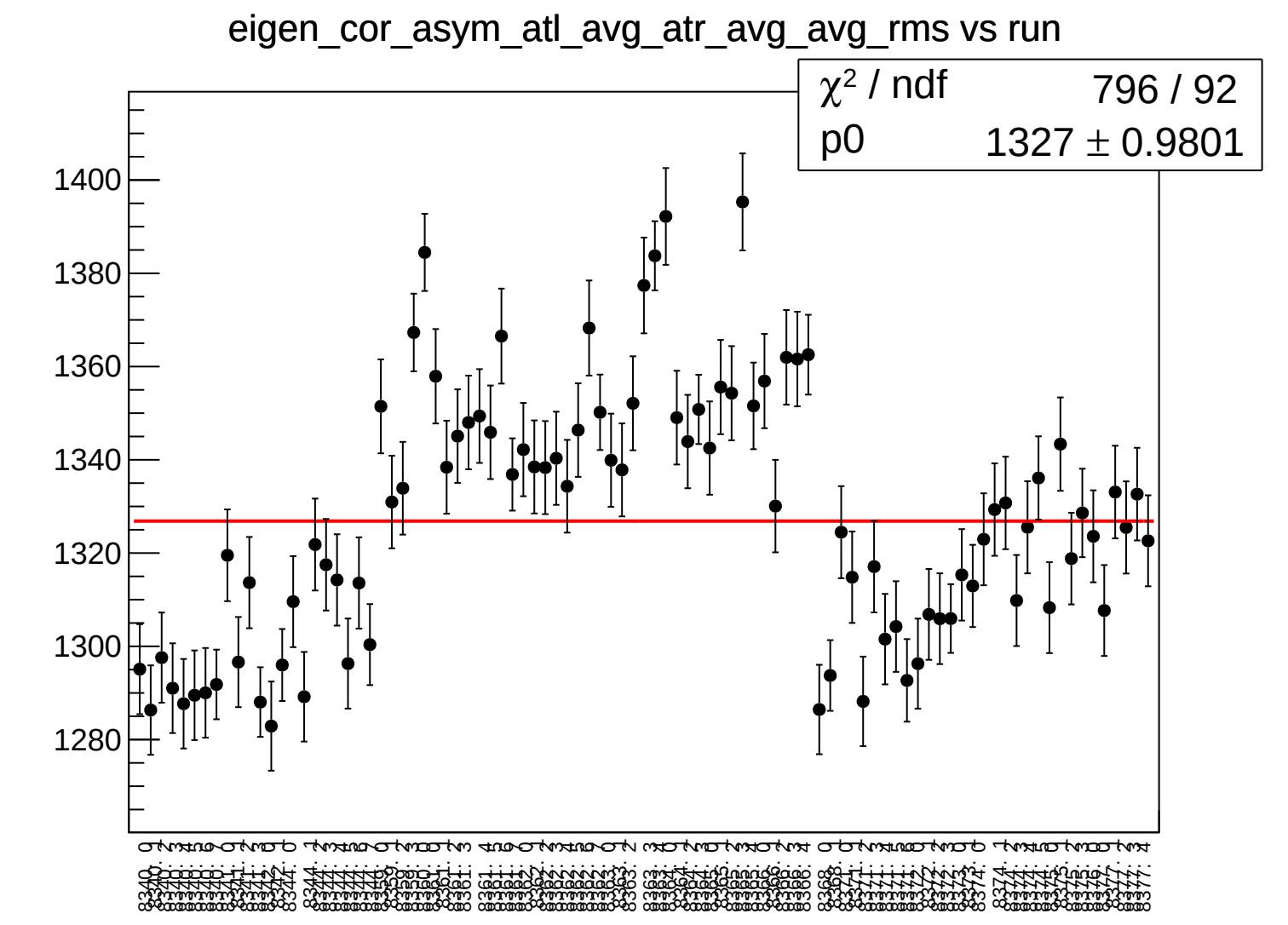

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.077e+04 ± 6370
pull
Entries 93
Mean −423
Std Dev 0

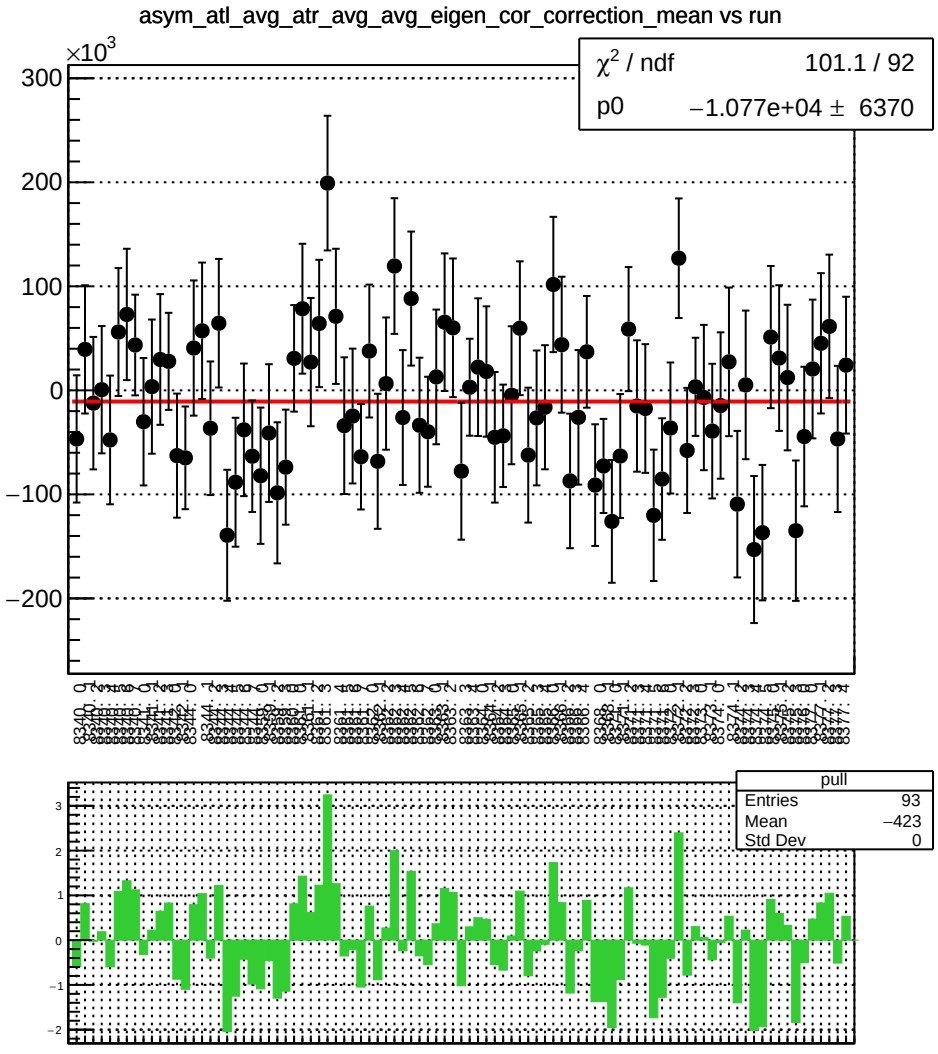

pull1D
Entries 93
Mean 0.007288
Std Dev 1.043

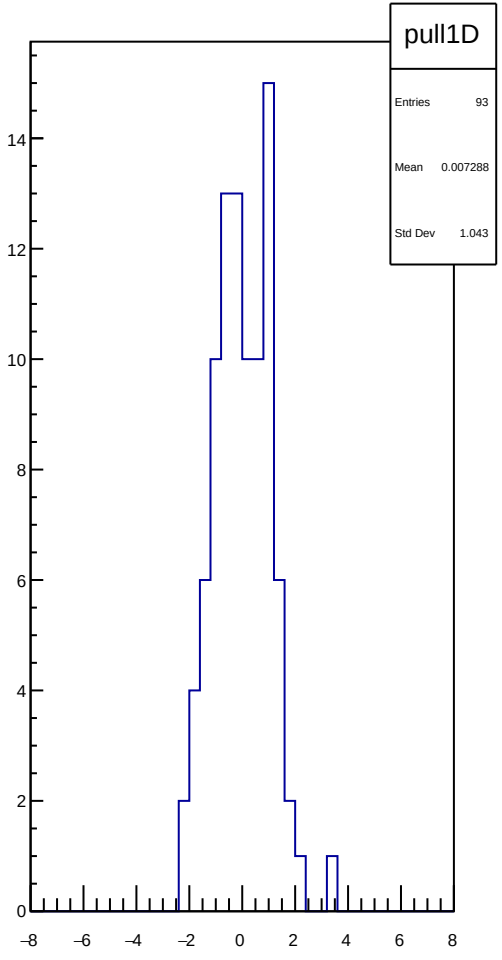

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4804 / 92
p0 6092 ± 4.505
7000
6800
6600
6400
6200
6000
5800
5600
5400

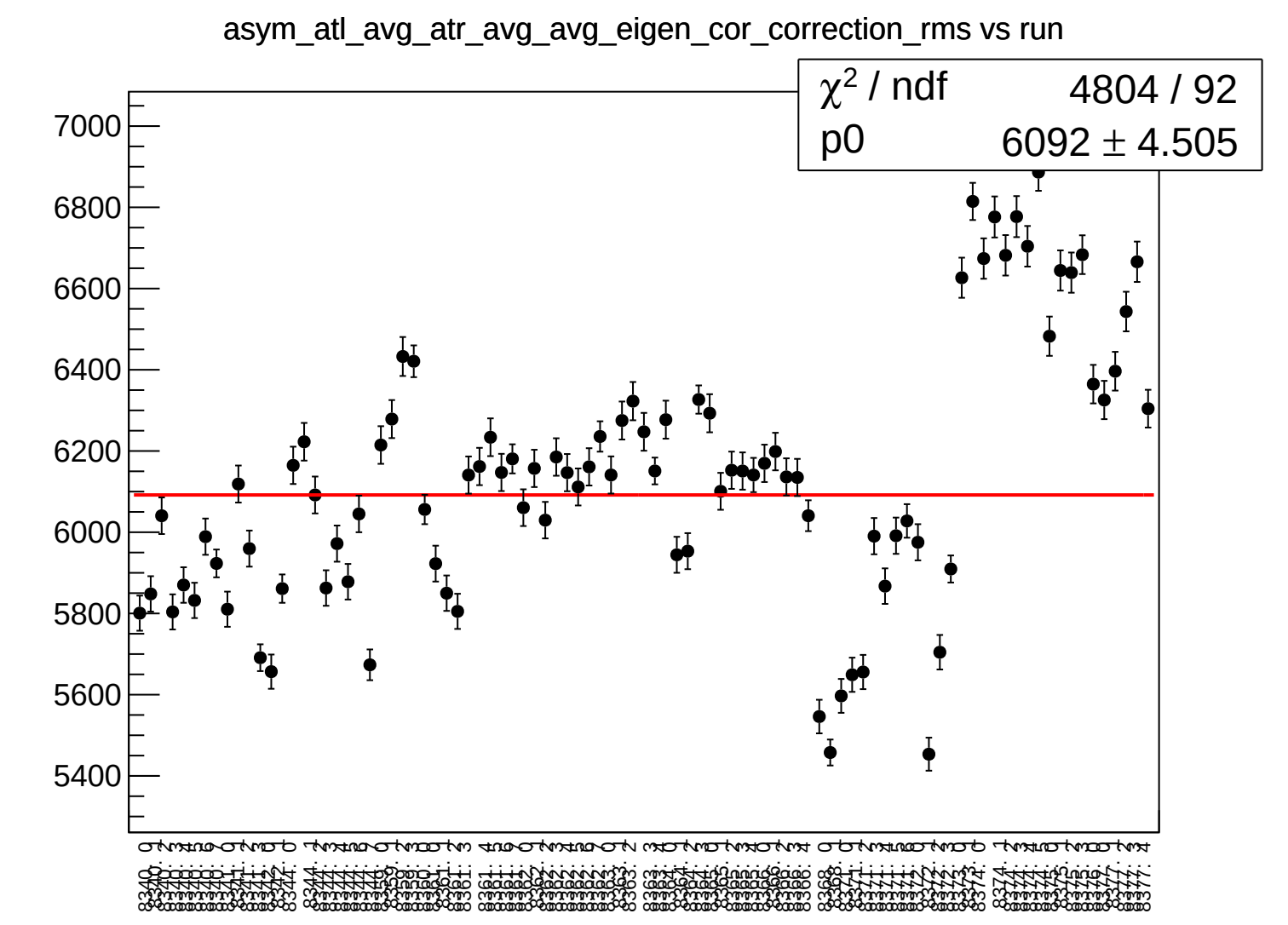

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 85.39 / 92
p0 −98.4 ± 1386
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 513.8
Std Dev 0
2
1
0
−1
−2
−3

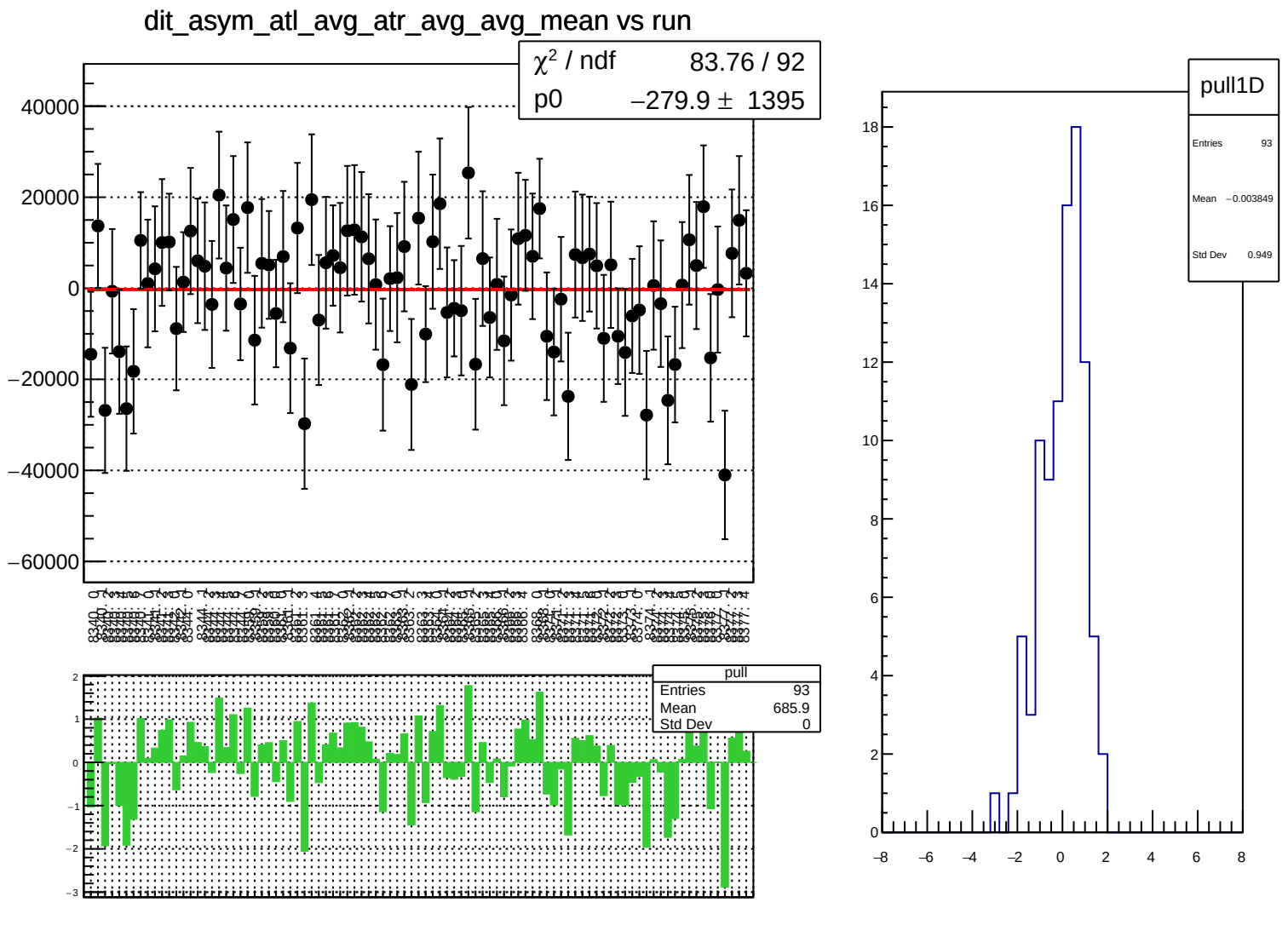

pull1D
Entries 93
Mean −0.004514
Std Dev 0.9582
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

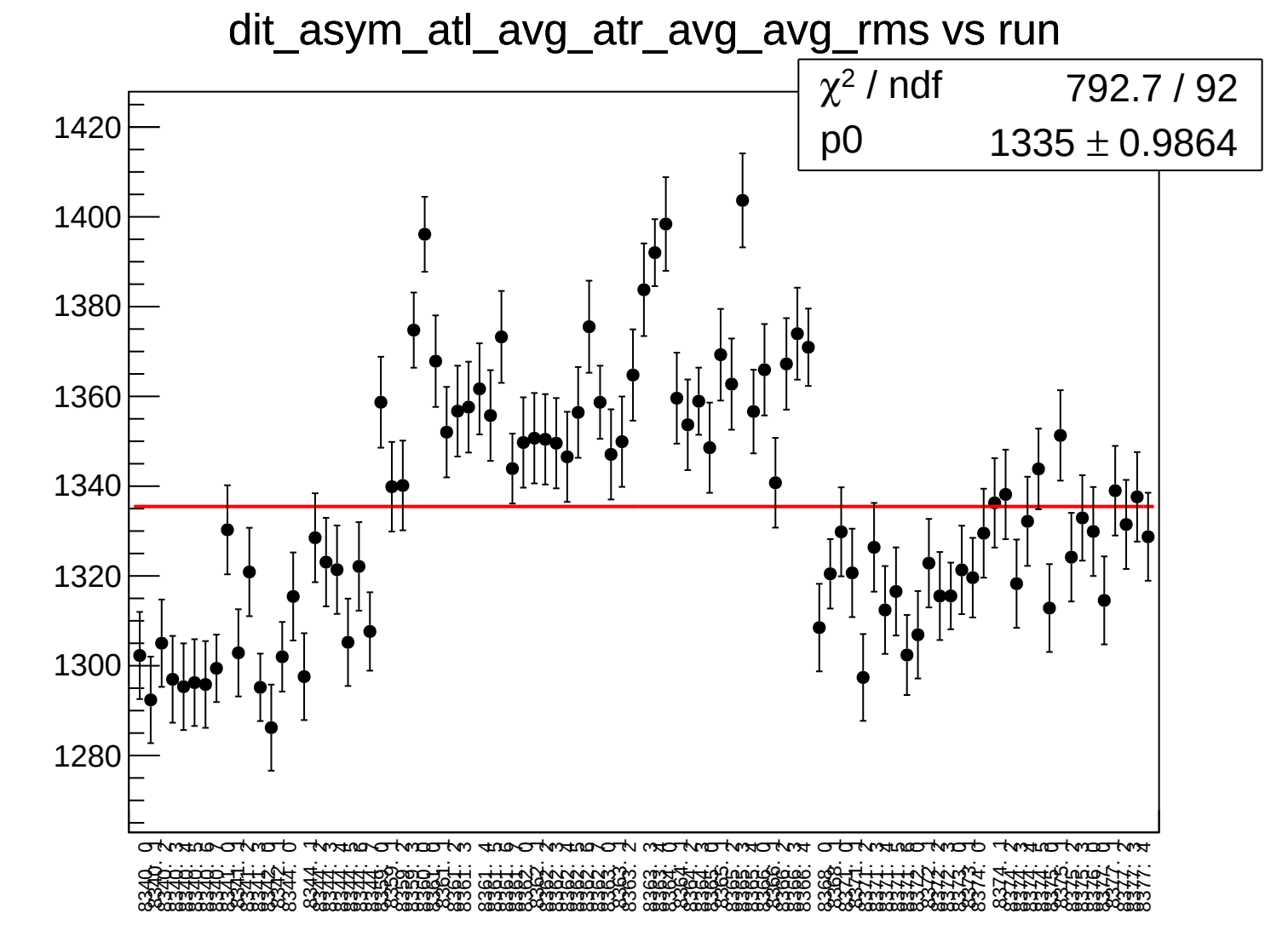

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 796 / 92
p0 1327 ± 0.9801
1400
1380
1360
1340
1320
1300
1280

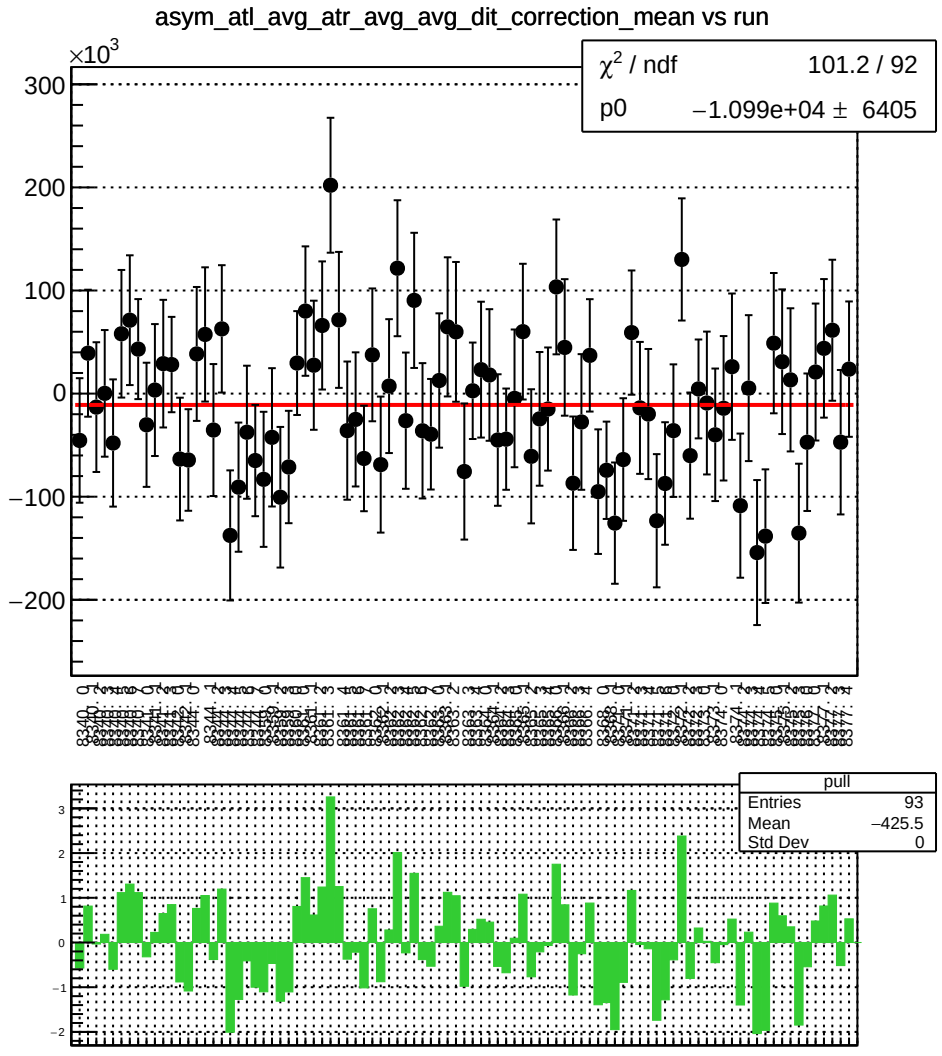

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.077e+04 ± 6370
pull
Entries 93
Mean −423
Std Dev 0

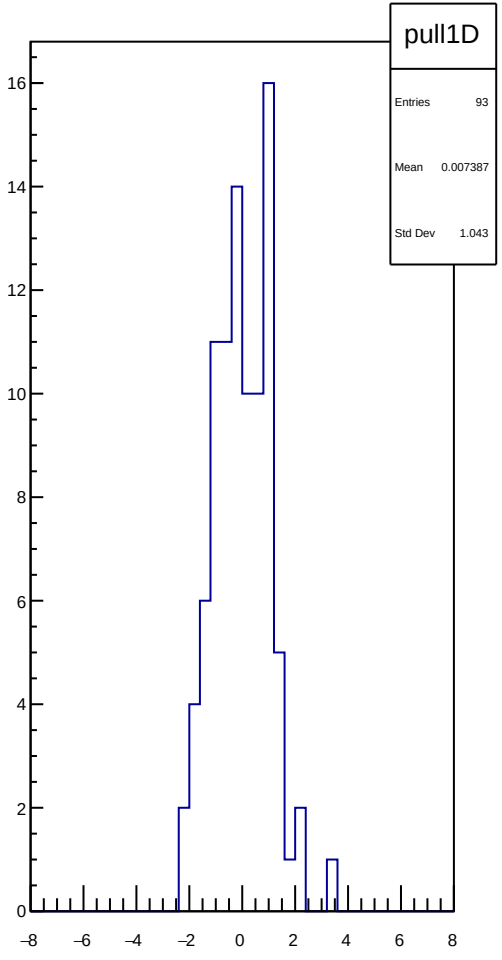

pull1D
Entries 93
Mean 0.007288
Std Dev 1.043

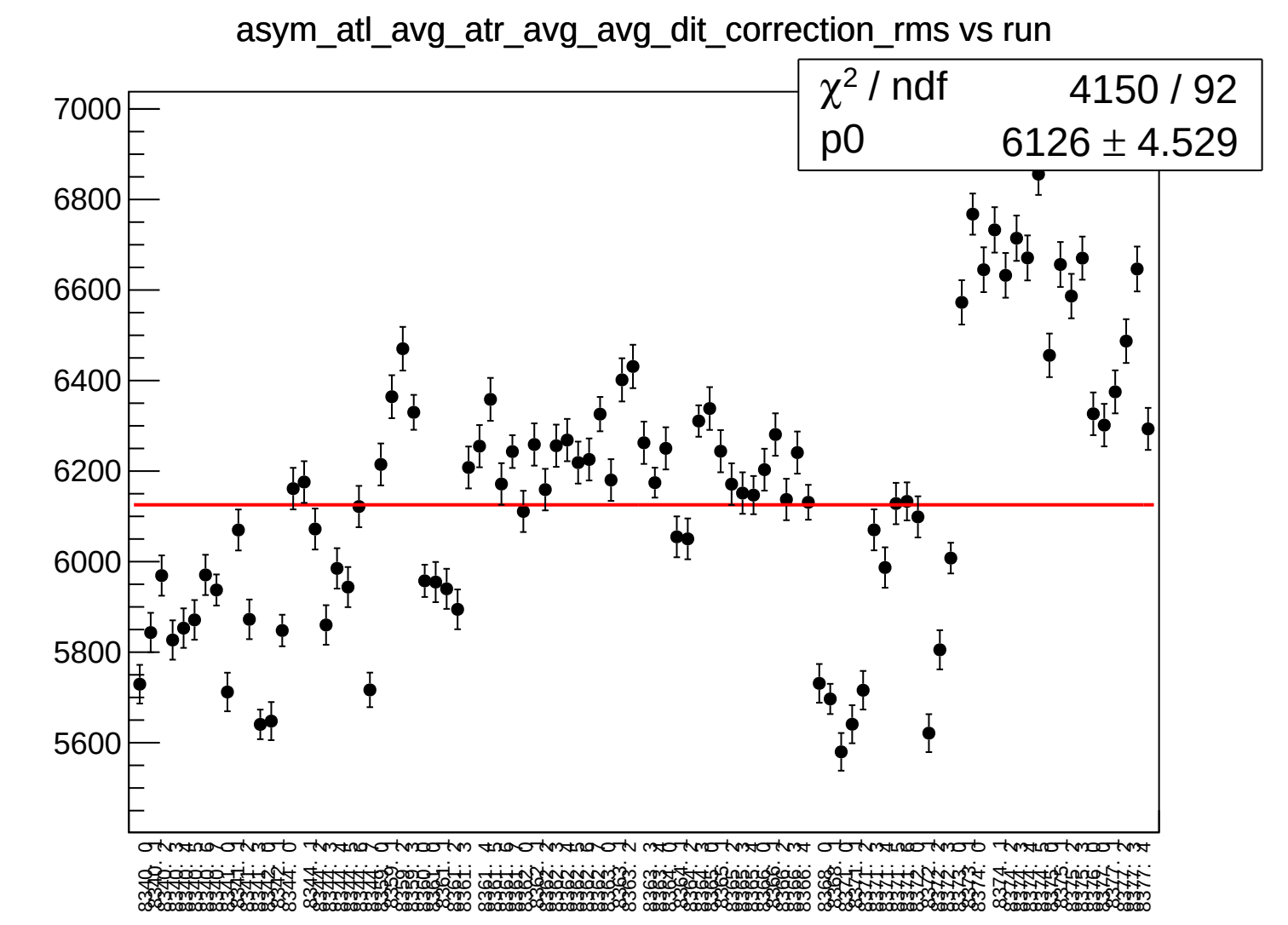

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4804 / 92
p0 6092 ± 4.505
7000
6800
6600
6400
6200
6000
5800
5600
5400

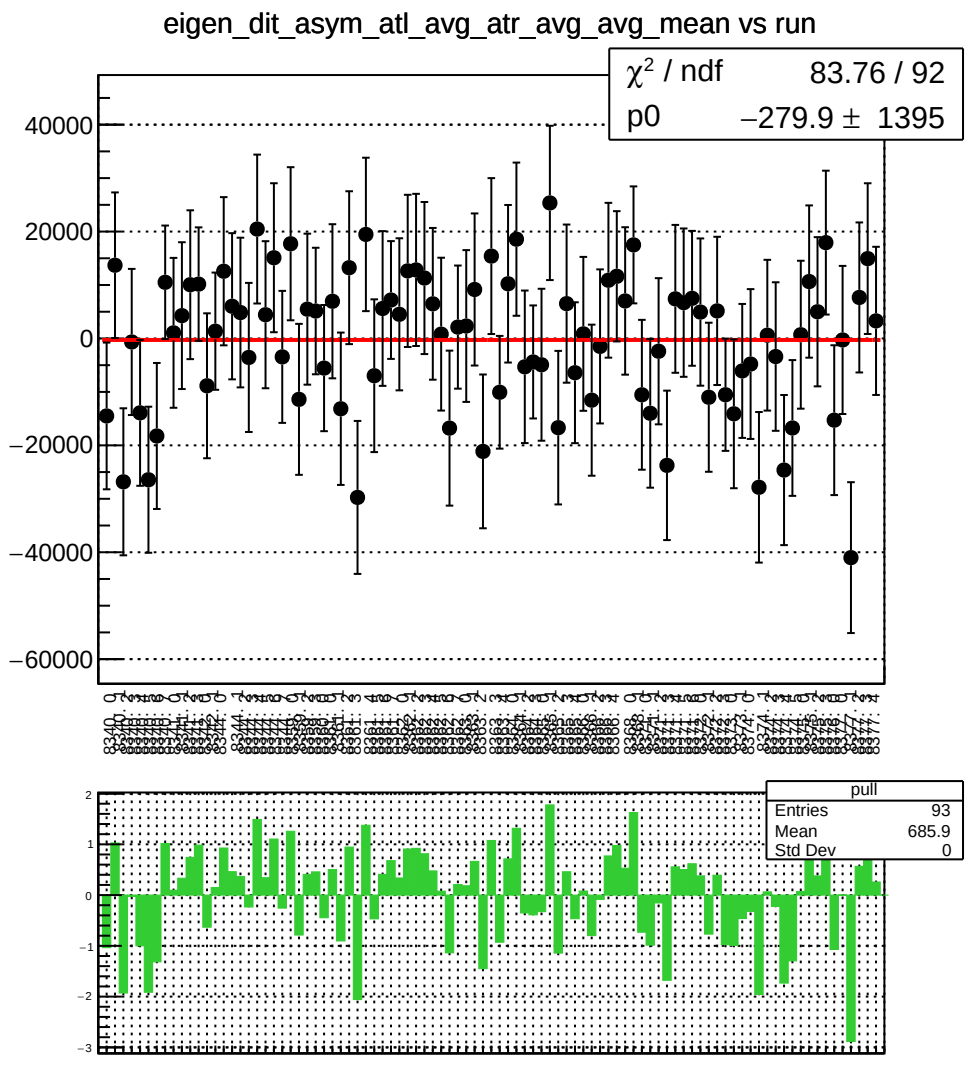

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.76 / 92
p0 −279.9 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 685.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003849
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

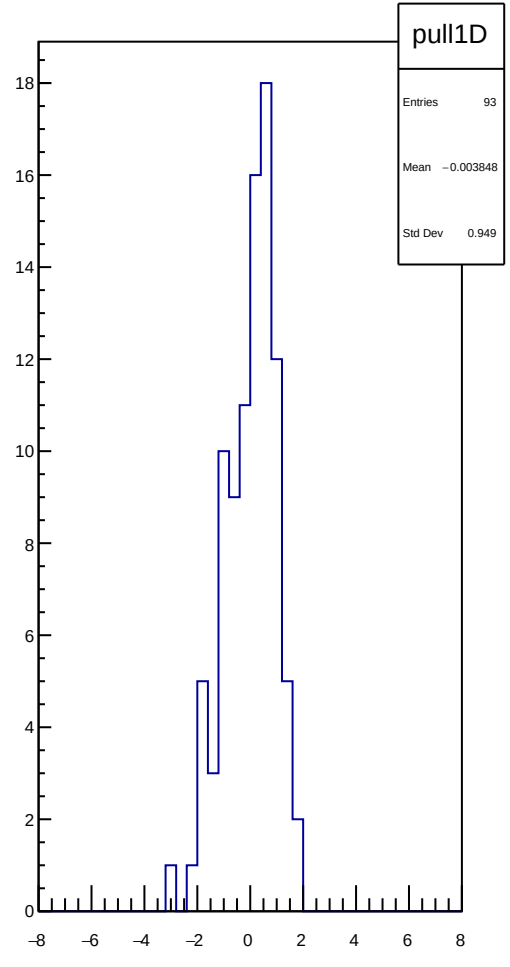

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 792.7 / 92
p0 1335 ± 0.9864
1420
1400
1380
1360
1340
1320
1300
1280

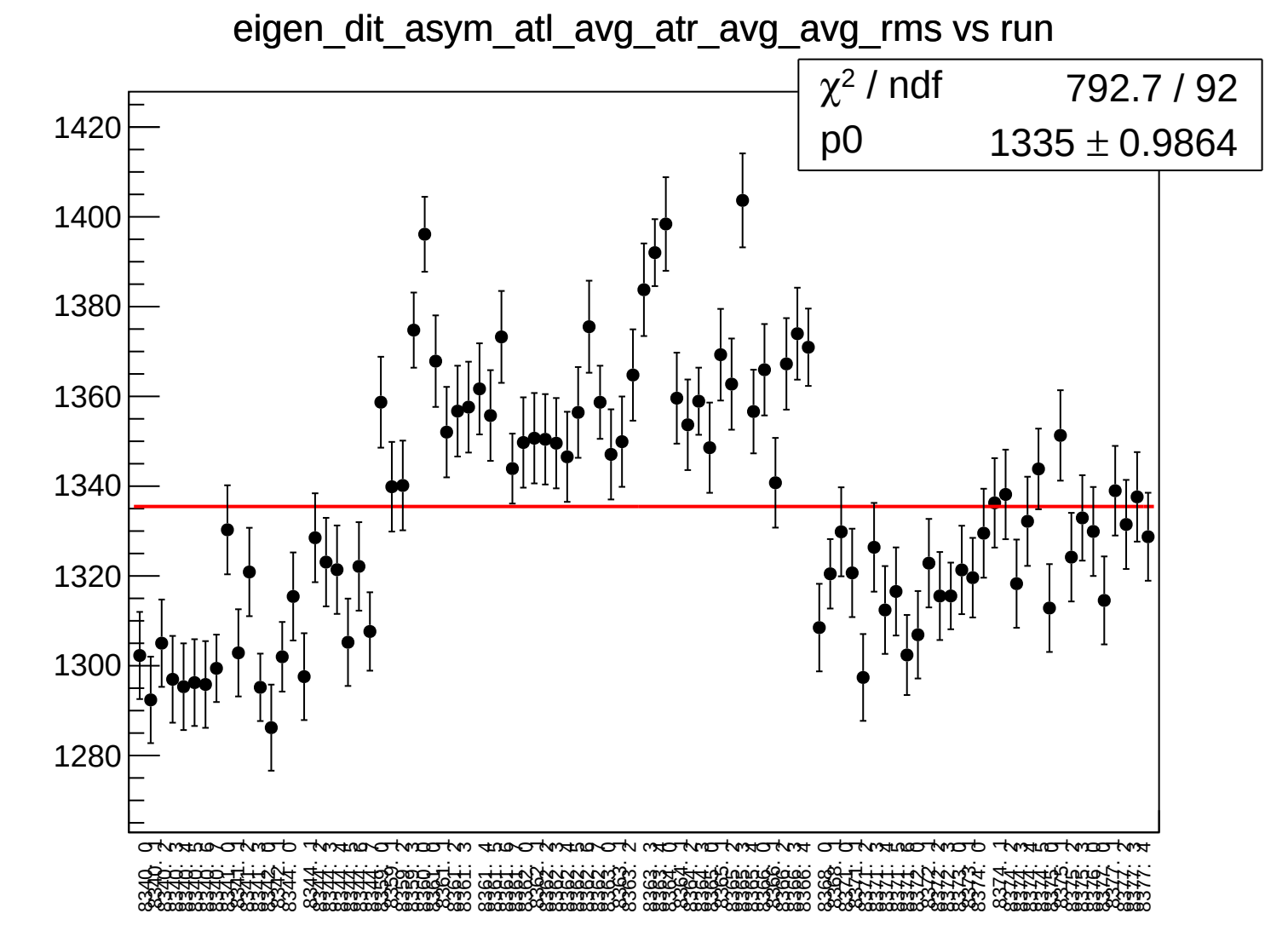

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −1.099e+04 ± 6405
pull
Entries 93
Mean −425.5
Std Dev 0

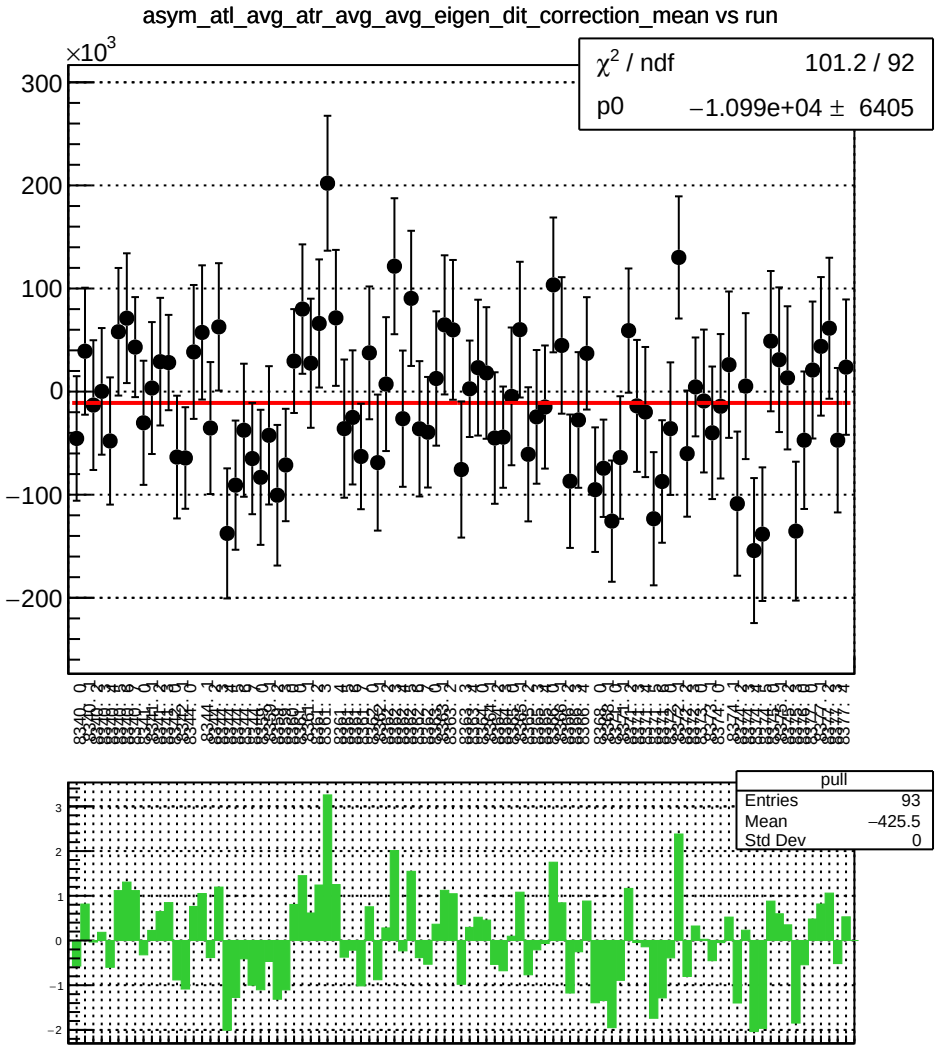

pull1D
Entries 93
Mean 0.007387
Std Dev 1.043

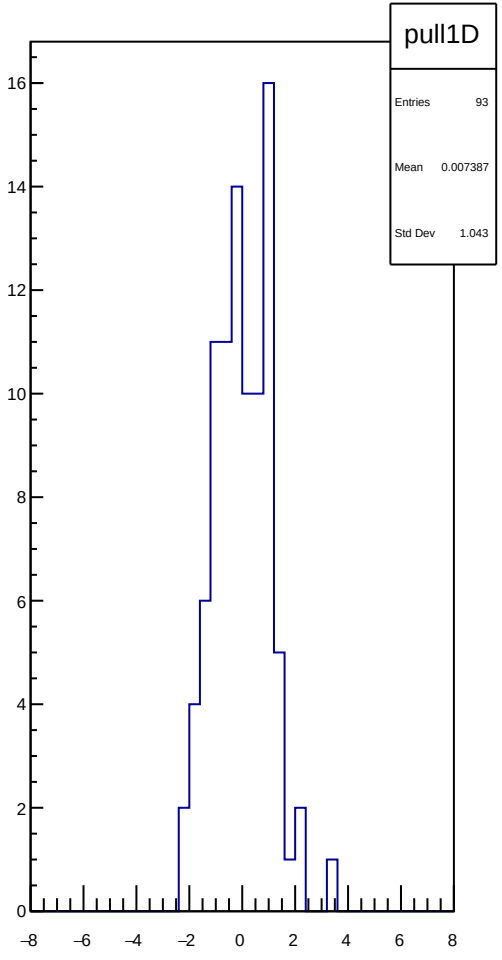

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 4150 / 92
p0 6126 ± 4.529
7000
6800
6600
6400
6200
6000
5800
5600

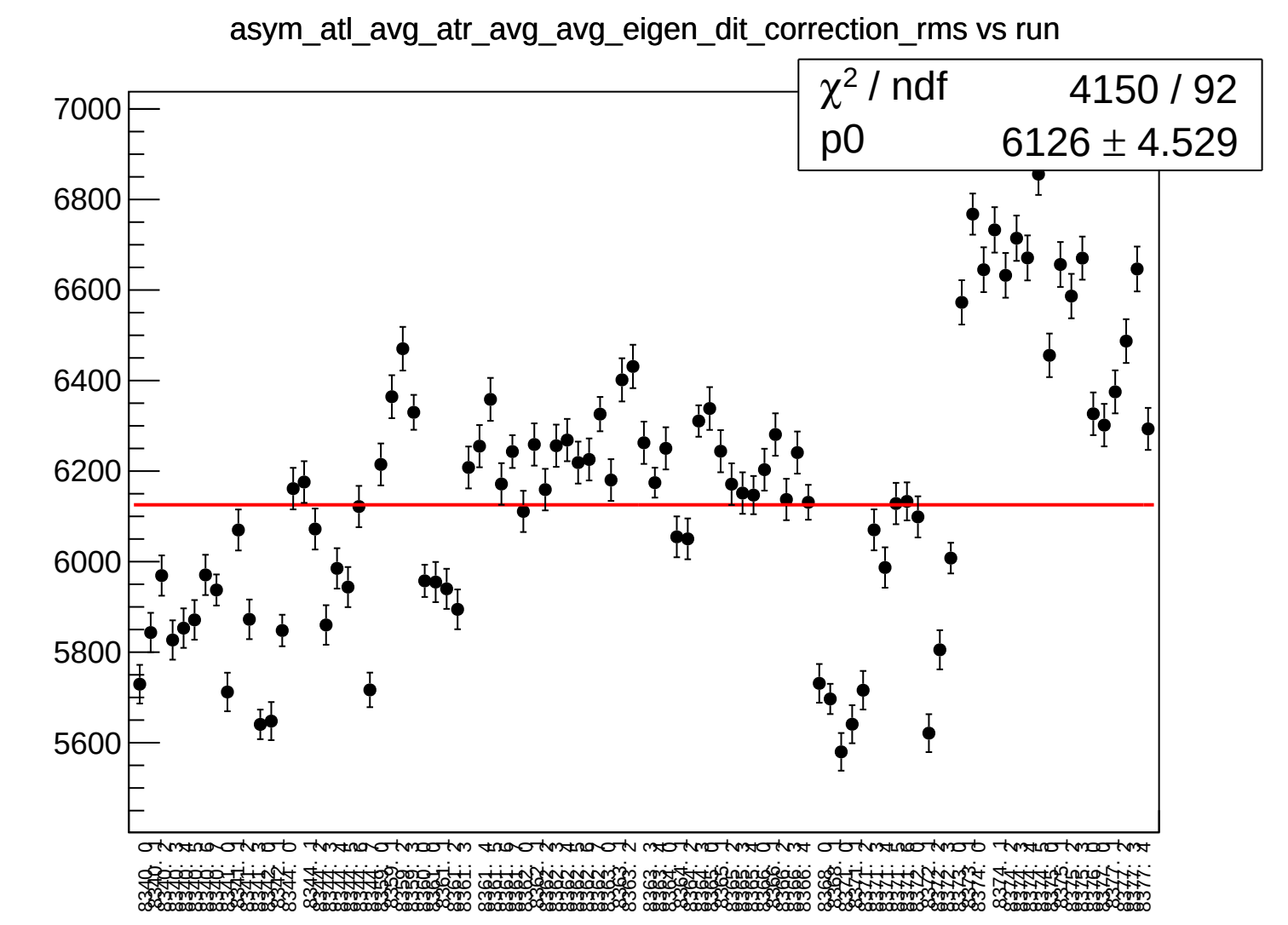

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.76 / 92
p0 −279.9 ± 1395
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 685.9
Std Dev 0
2
1
0
−1
−2
−3

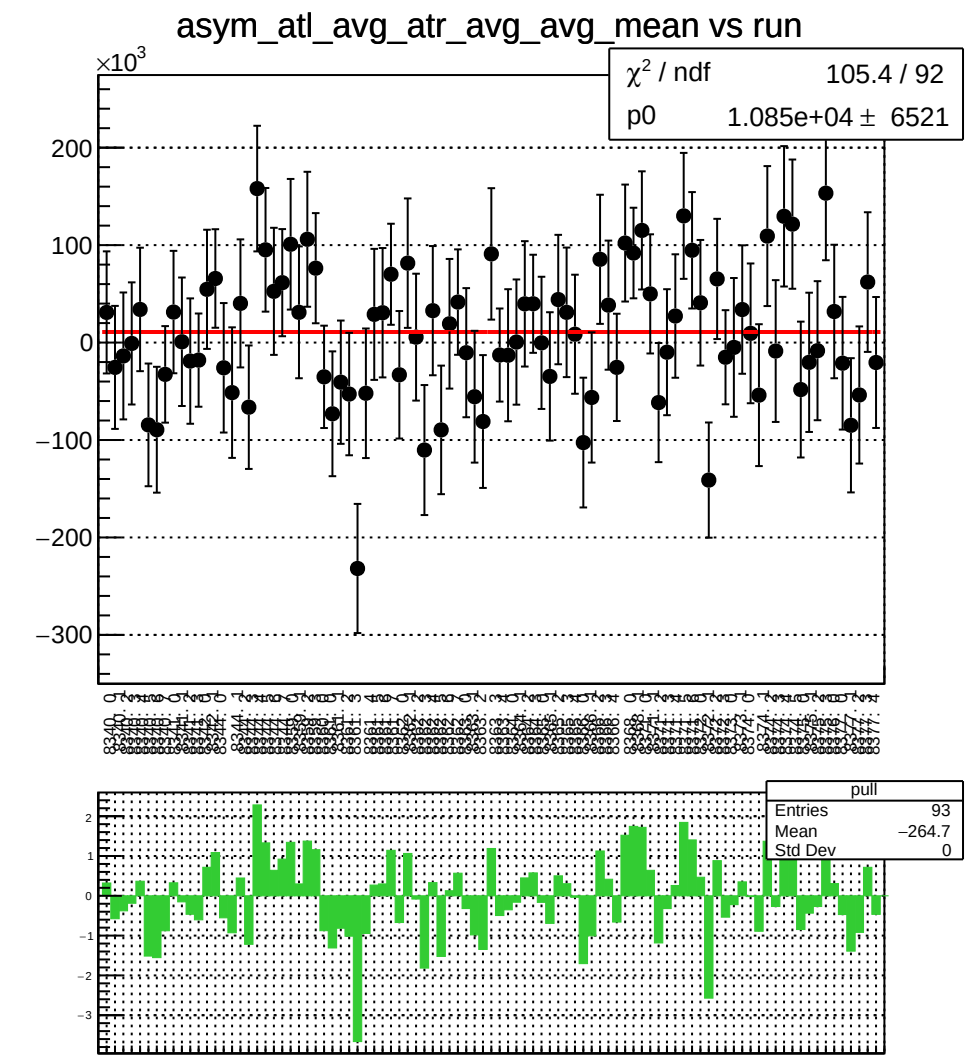

pull1D
Entries 93
Mean −0.003848
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

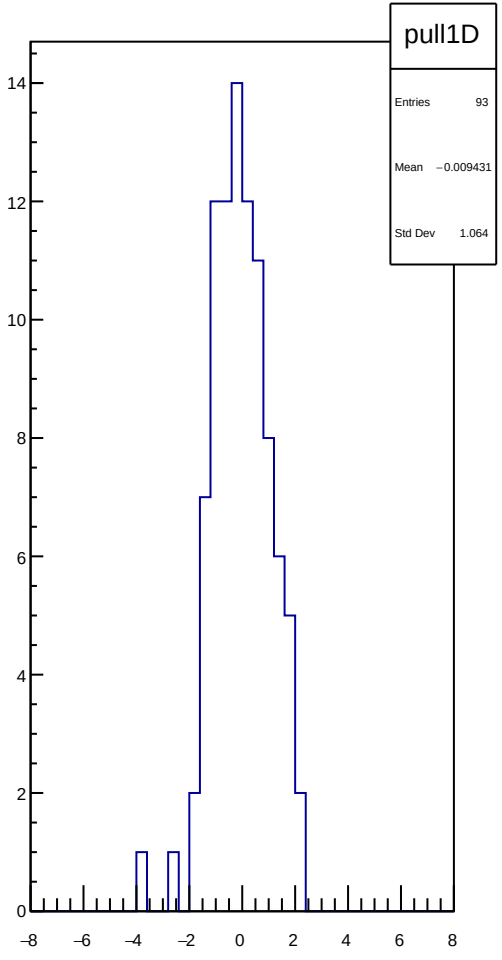

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 792.7 / 92
p0 1335 ± 0.9864
1420
1400
1380
1360
1340
1320
1300
1280

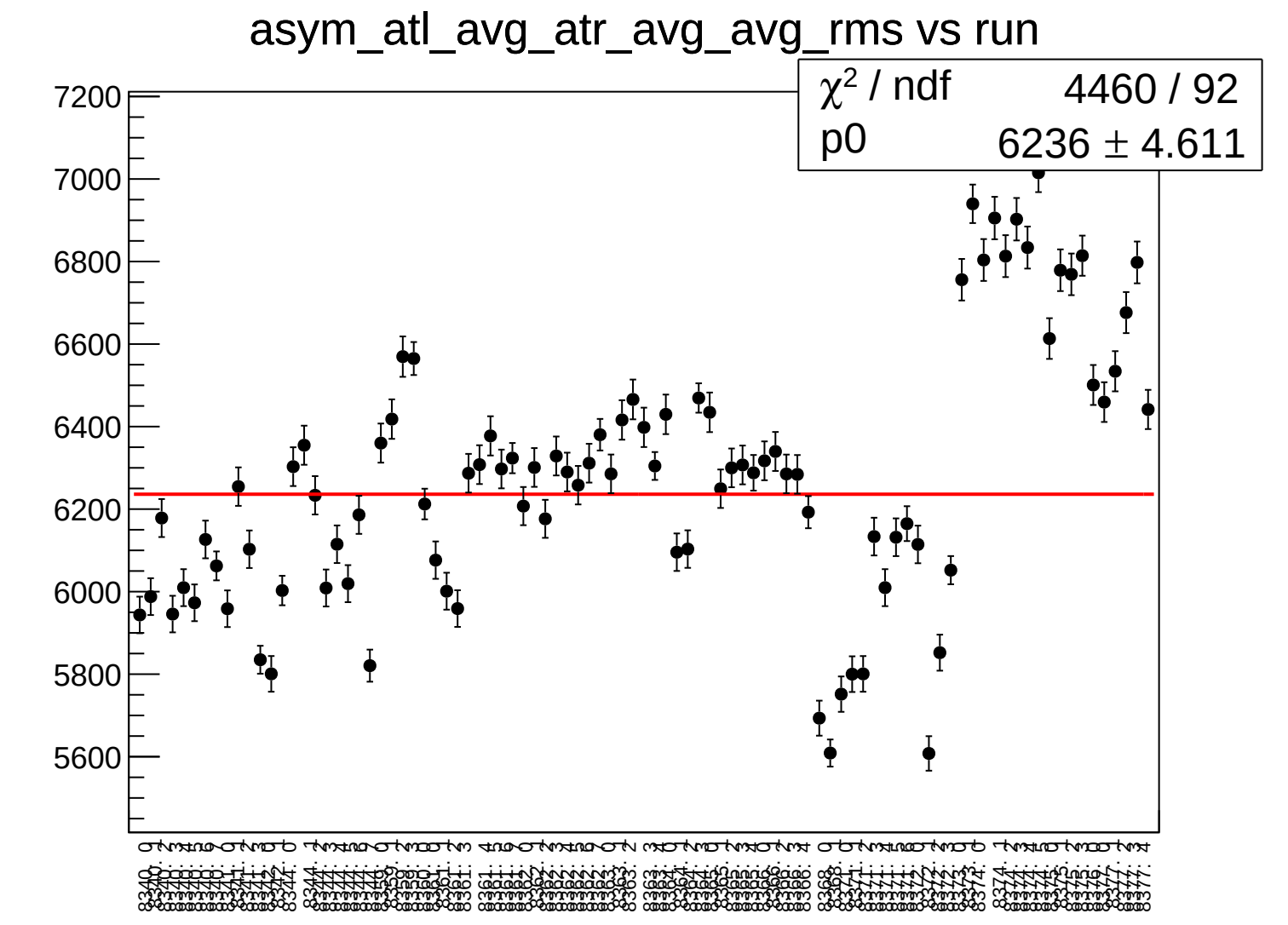

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −1.099e+04 ± 6405
300
200
100
0
−100
−200
pull
Entries 93
Mean −425.5
Std Dev 0
3
2
1
0
−1
−2

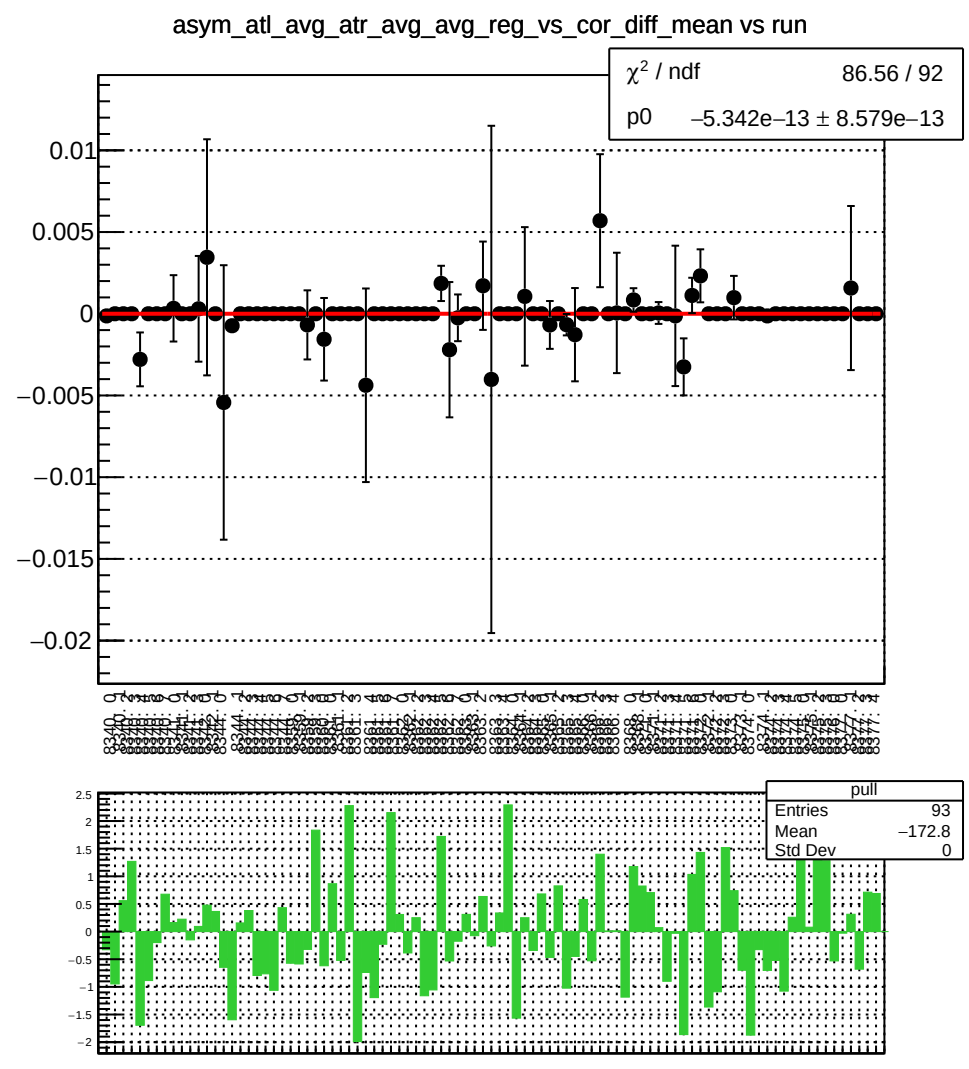

pull1D
Entries 93
Mean 0.007387
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

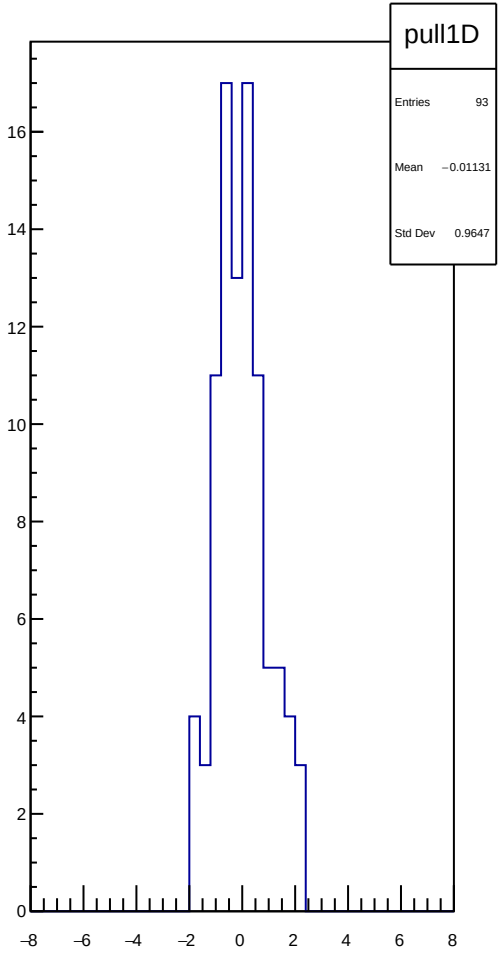

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4150 / 92
p0 6126 ± 4.529
7000
6800
6600
6400
6200
6000
5800
5600

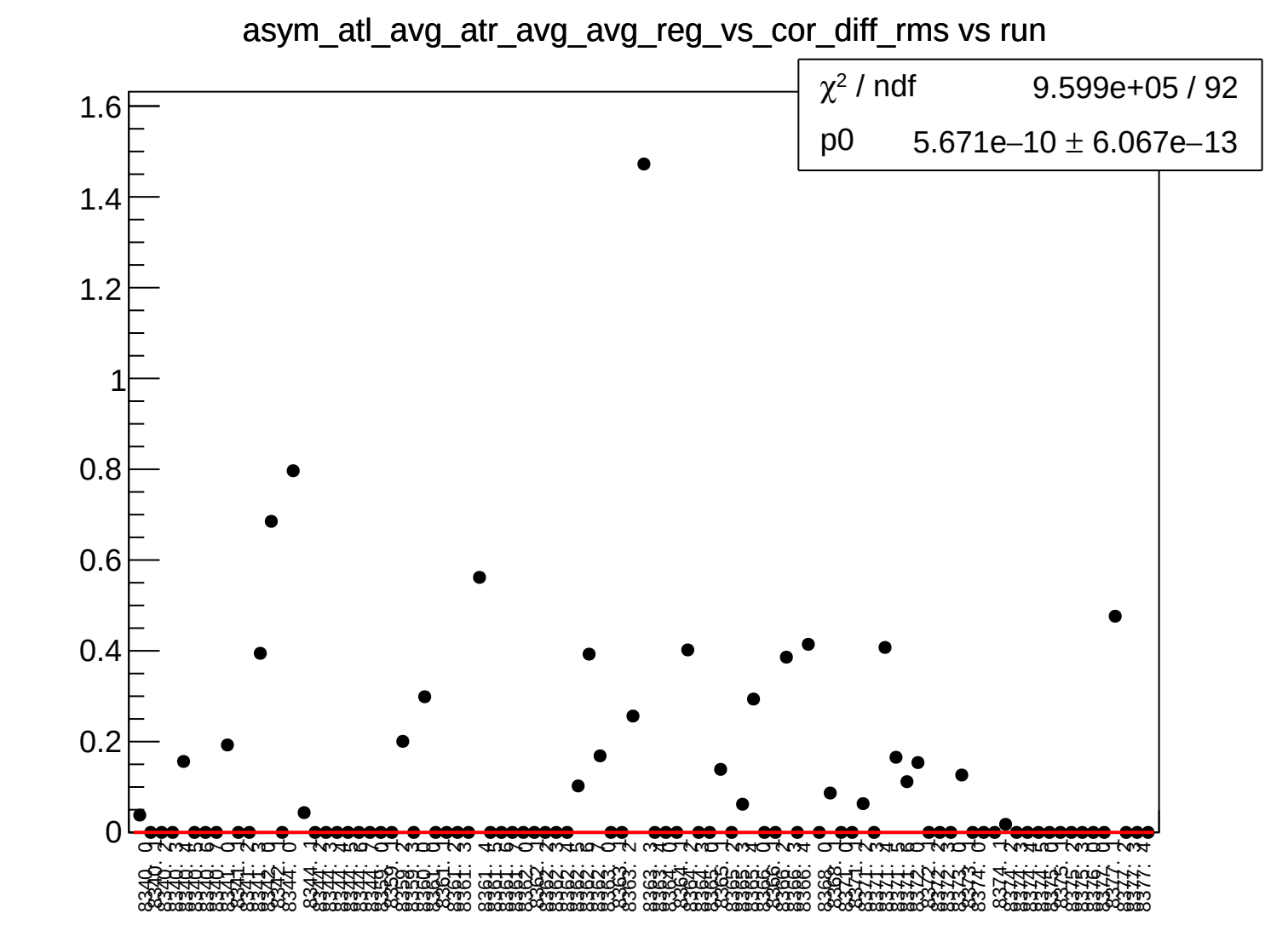

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 105.4 / 92
p0 1.085e+04 ± 6521
200
100
0
−100
−200
−300
pull
Entries 93
Mean −264.7
Std Dev 0
2
1
0
−1
−2
−3

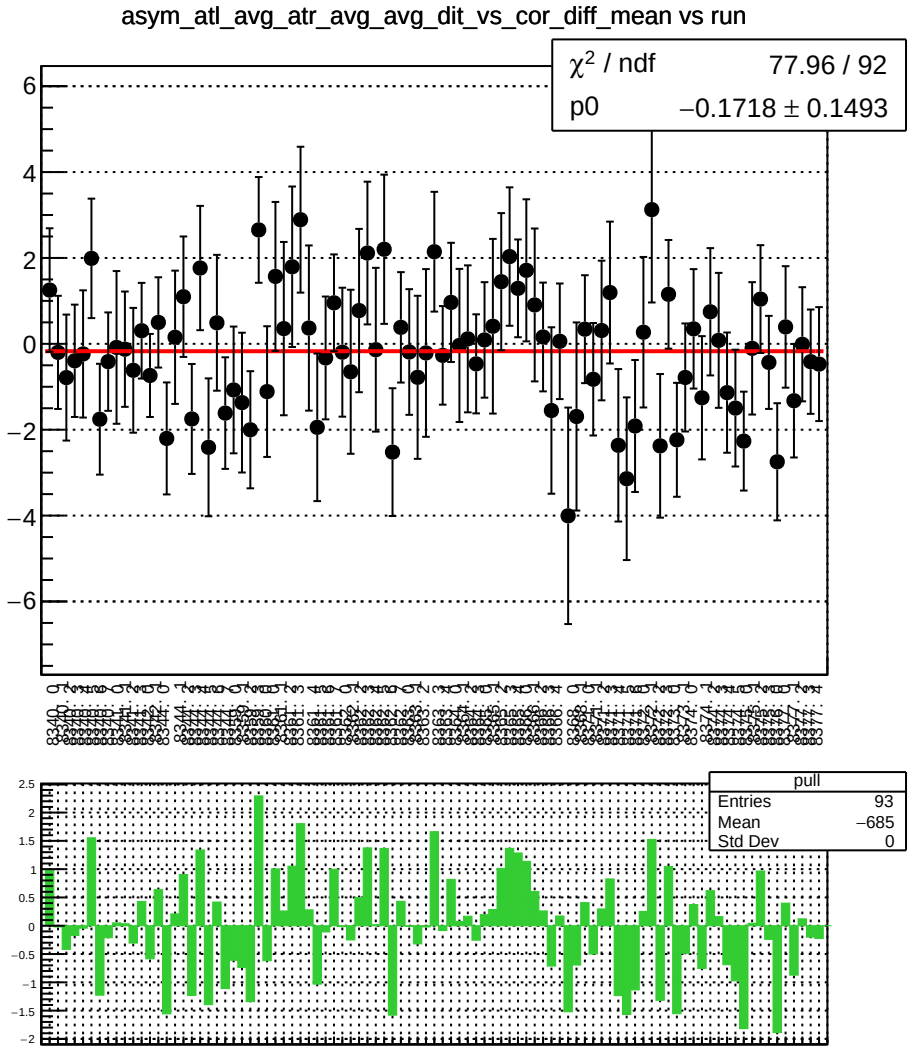

pull1D
Entries 93
Mean −0.009431
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

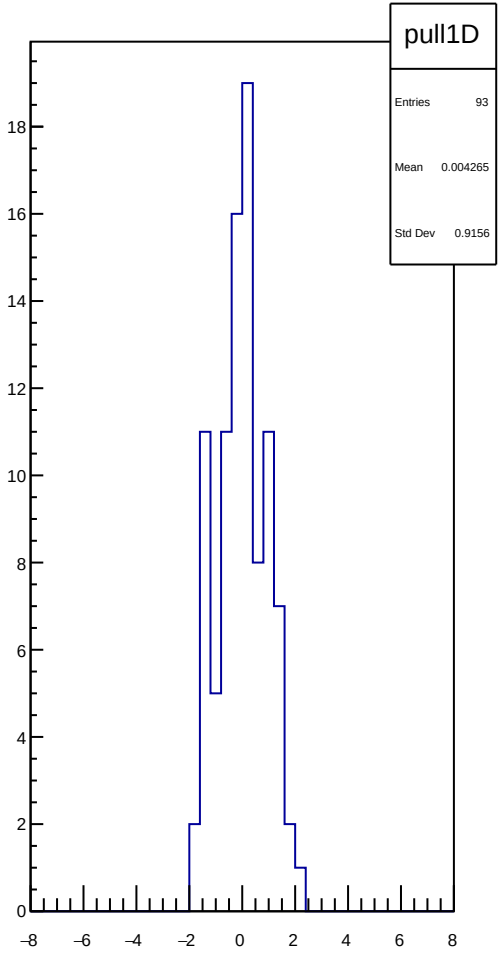

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4460 / 92
p0 6236 ± 4.611
7200
7000
6800
6600
6400
6200
6000
5800
5600

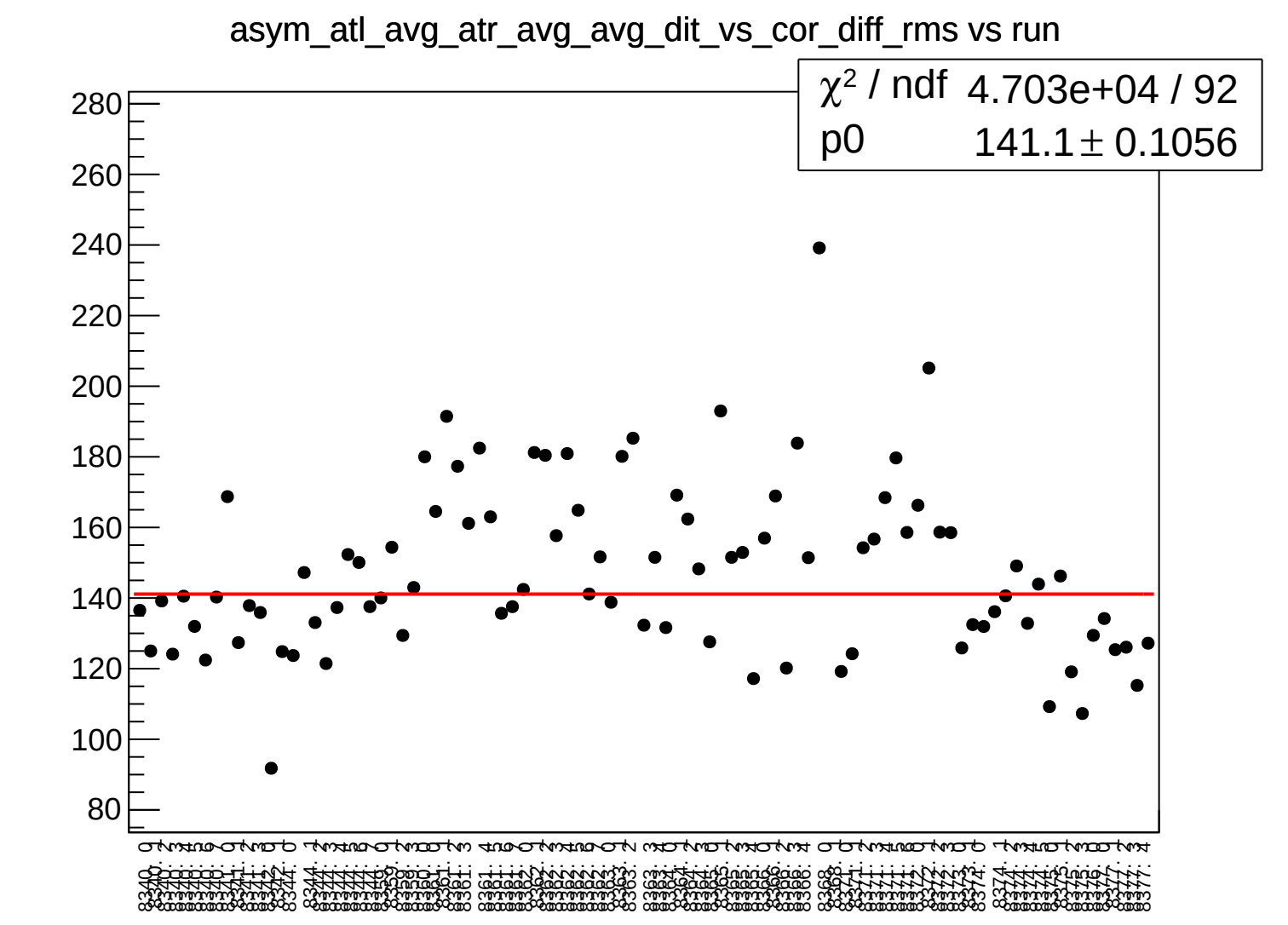

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.56 / 92
p0 −5.342e−13 ± 8.579e−13
pull
Entries 93
Mean −172.8
Std Dev 0

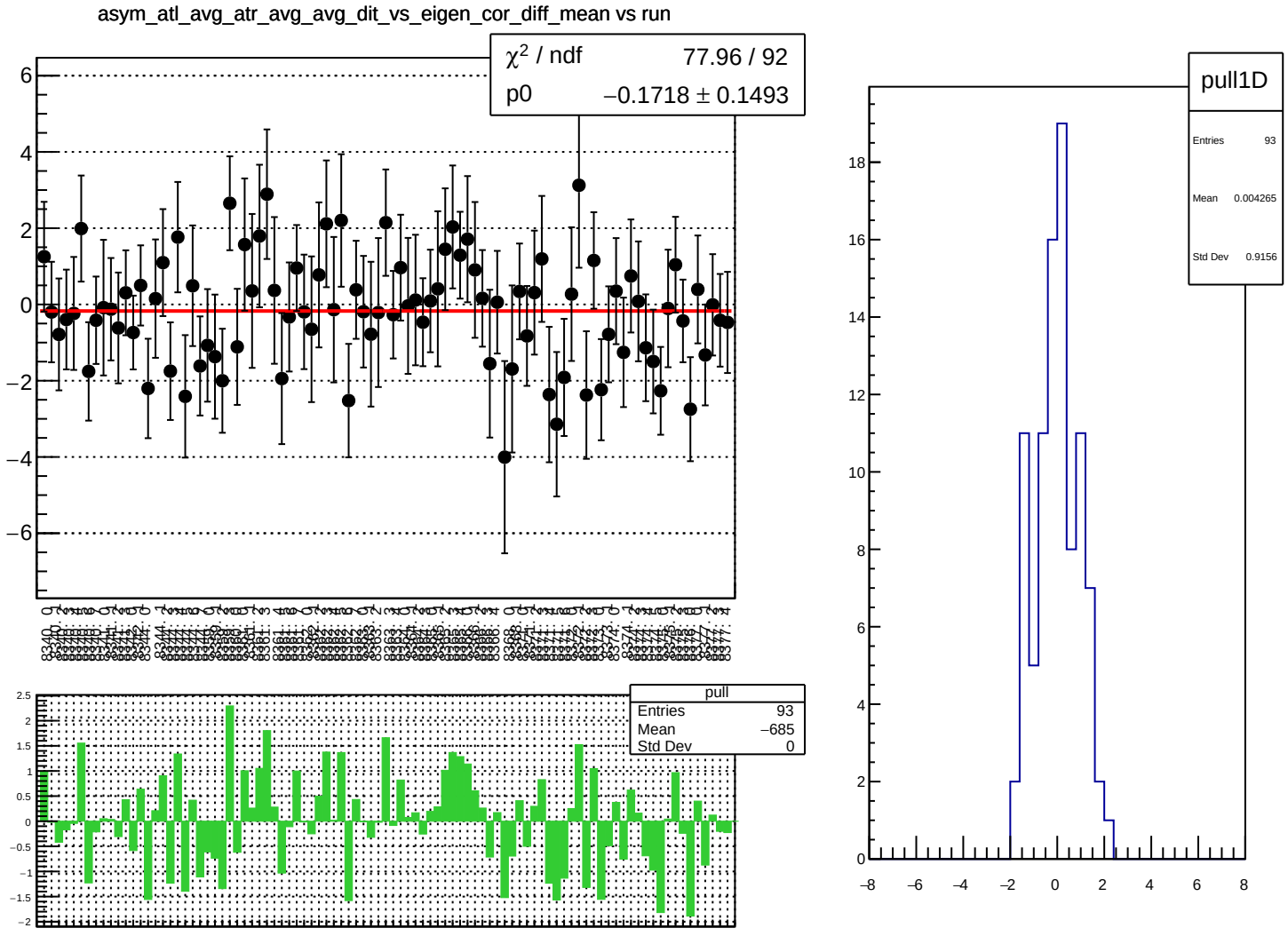

pull1D
Entries 93
Mean −0.01131
Std Dev 0.9647

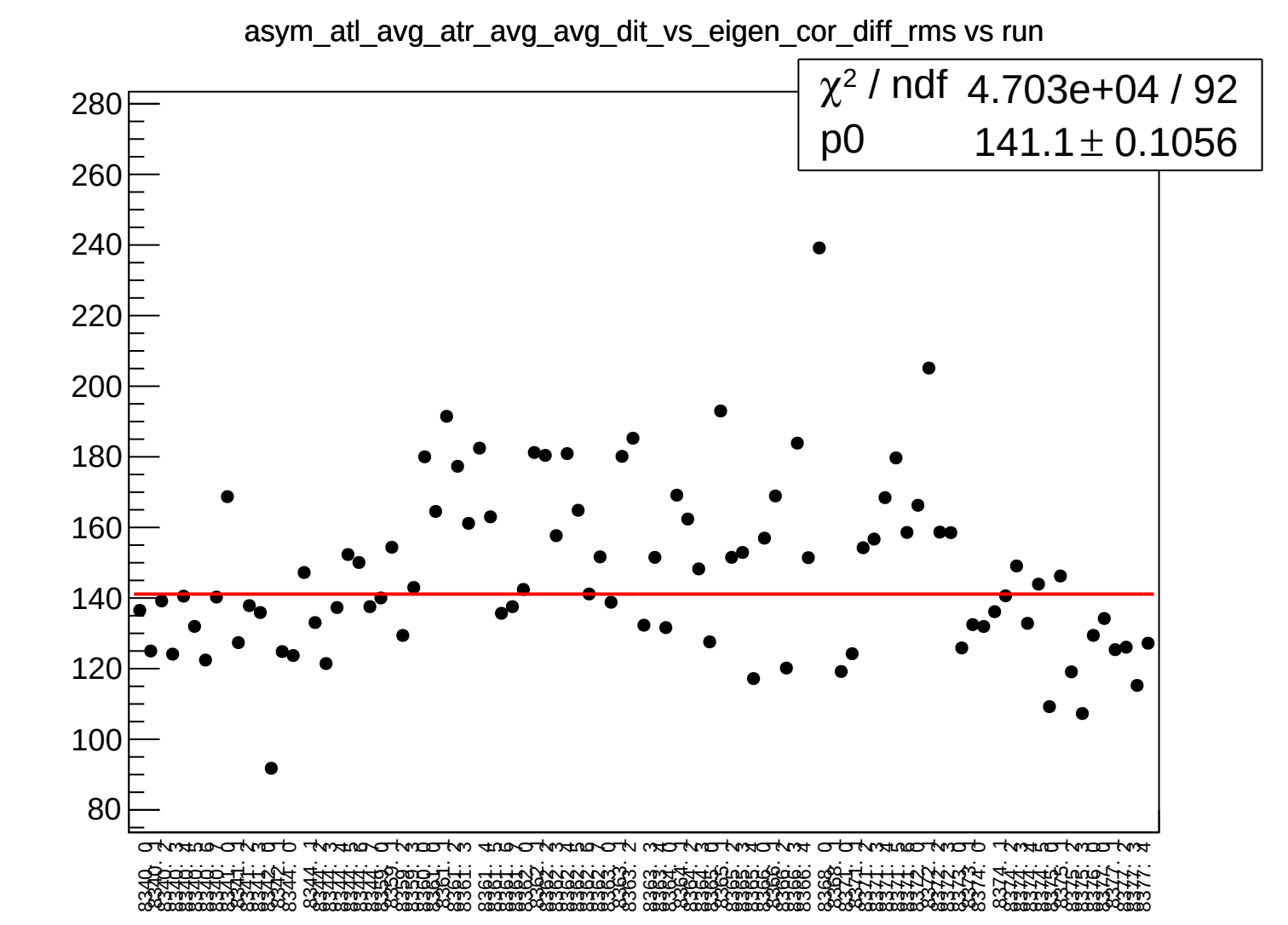

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.599e+05 / 92
p0 5.671e−10 ± 6.067e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

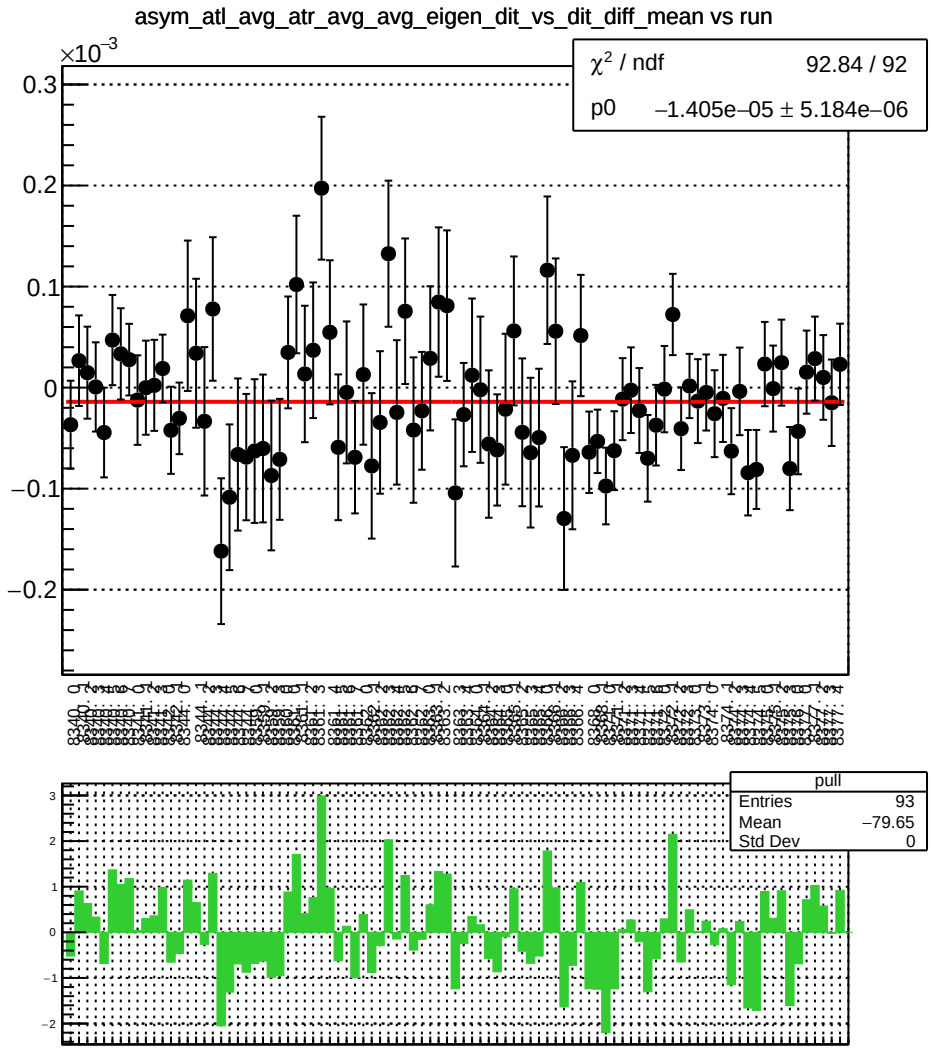

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.96 / 92
p0 −0.1718 ± 0.1493
pull
Entries 93
Mean −685
Std Dev 0

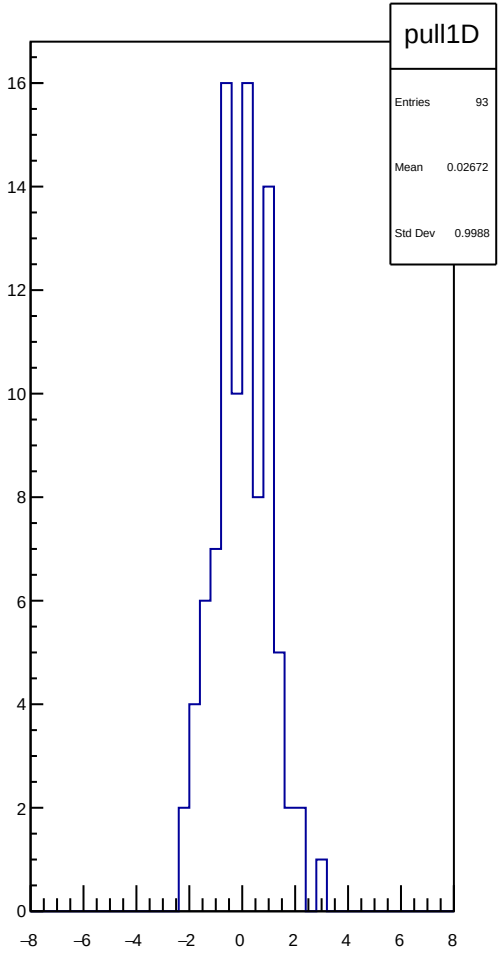

pull1D
Entries 93
Mean 0.004265
Std Dev 0.9156

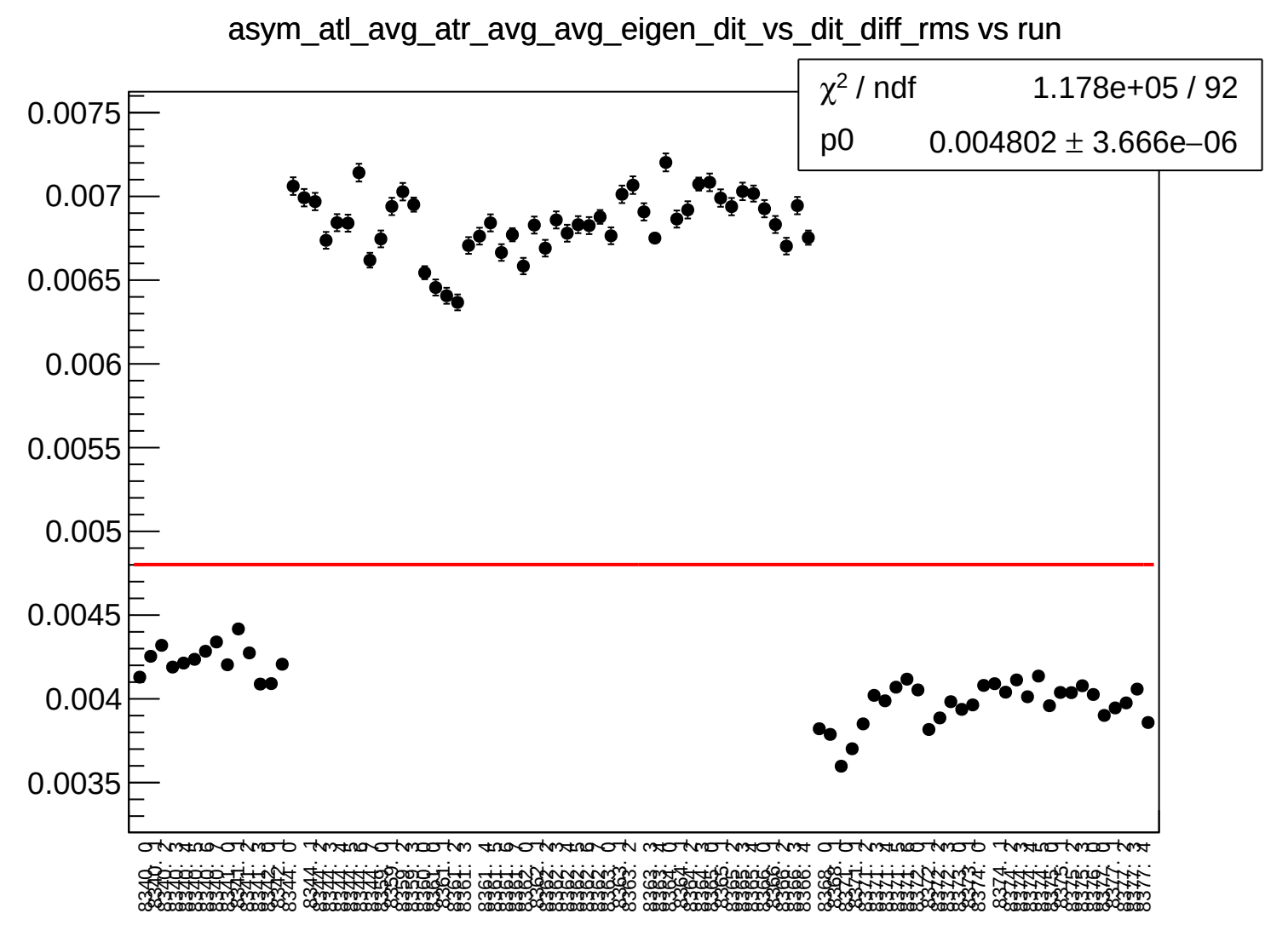

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.703e+04 / 92
p0 141.1 ± 0.1056
280
260
240
220
200
180
160
140
120
100
80

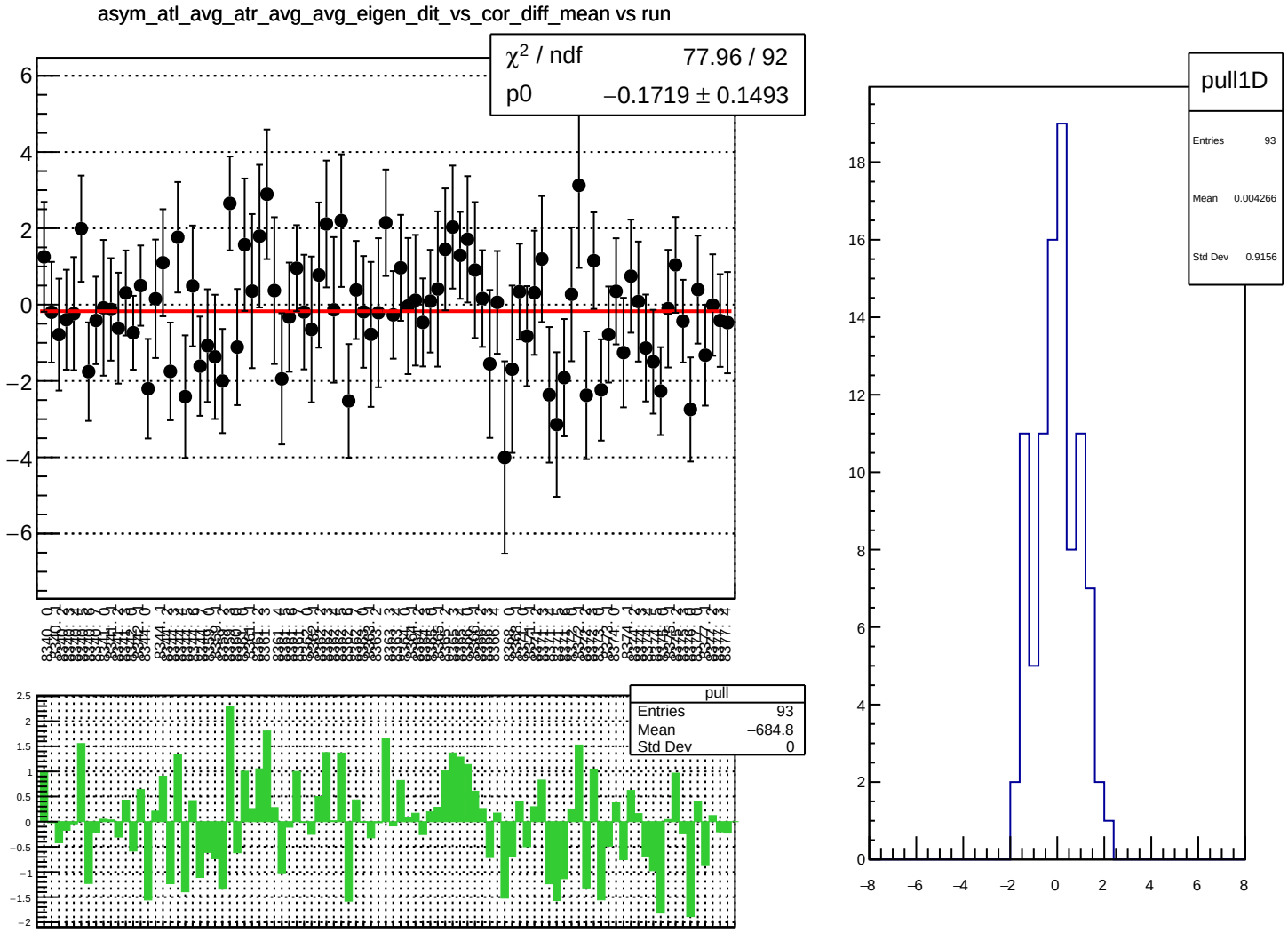

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.96 / 92
p0 −0.1718 ± 0.1493
pull
Entries 93
Mean −685
Std Dev 0
pull1D
Entries 93
Mean 0.004265
Std Dev 0.9156

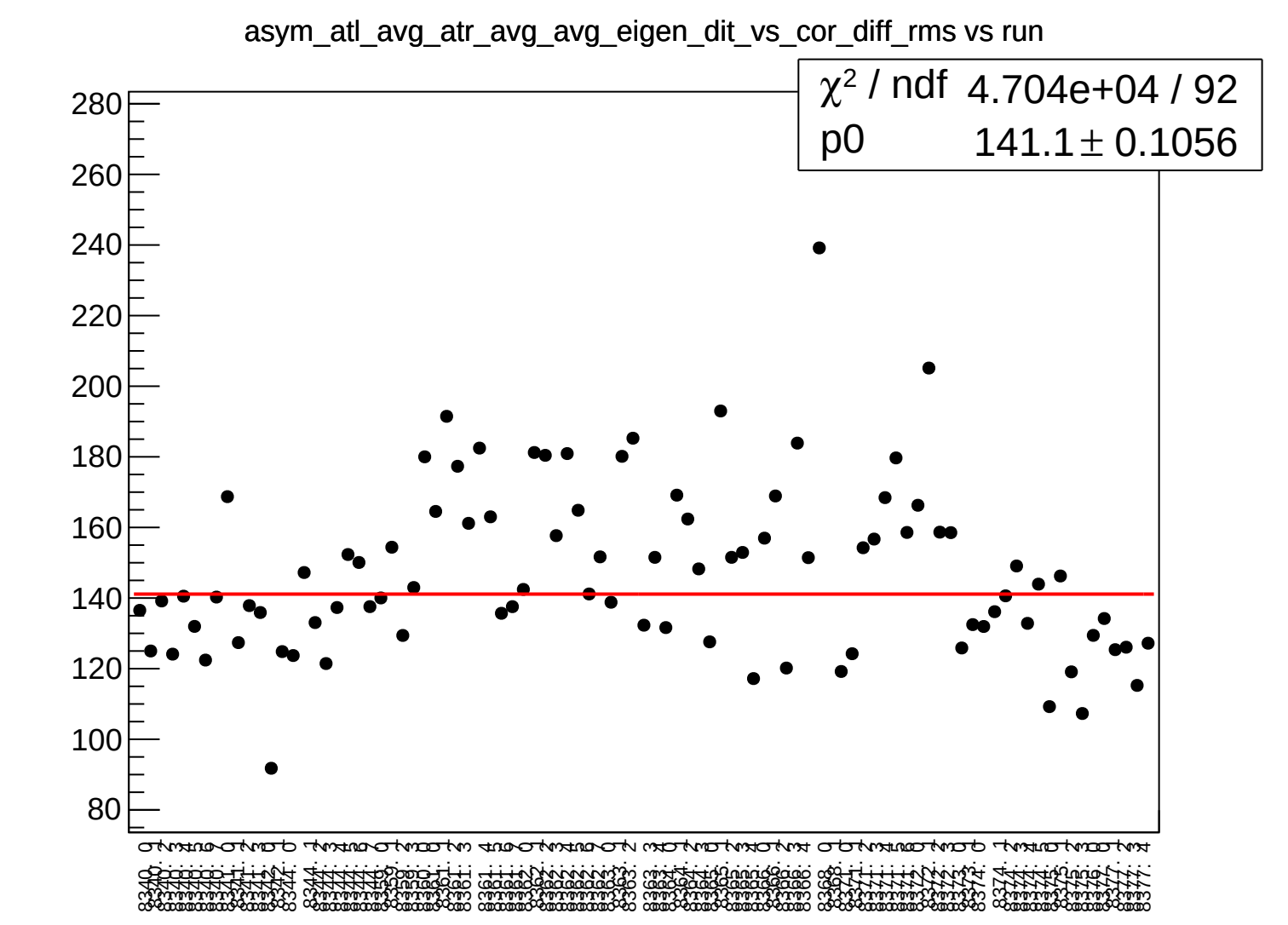

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.703e+04 / 92
p0 141.1 ± 0.1056
280
260
240
220
200
180
160
140
120
100
80

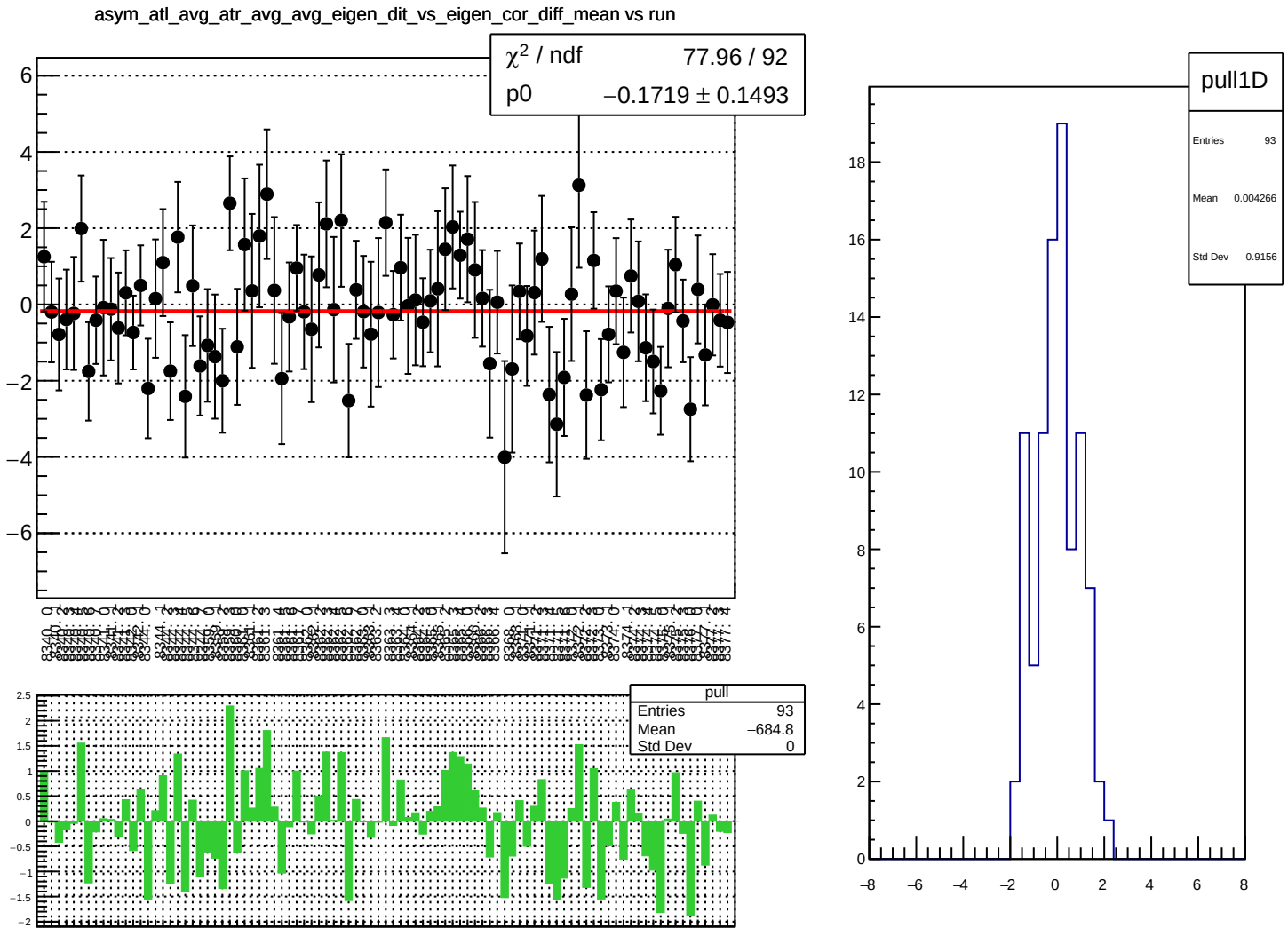

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.84 / 92
p0 −1.405e−05 ± 5.184e−06
pull
Entries 93
Mean −79.65
Std Dev 0

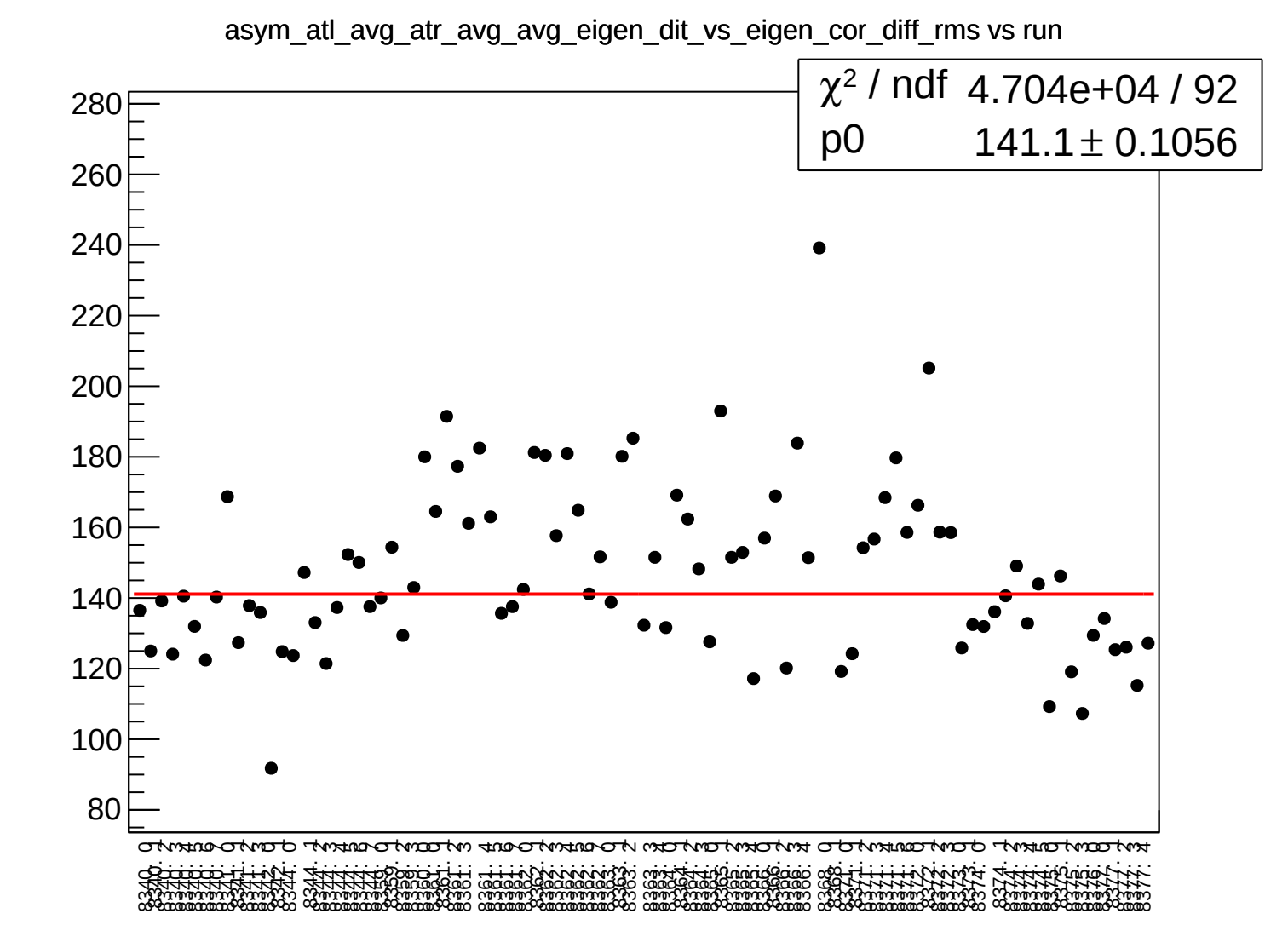

pull1D
Entries 93
Mean 0.02672
Std Dev 0.9988

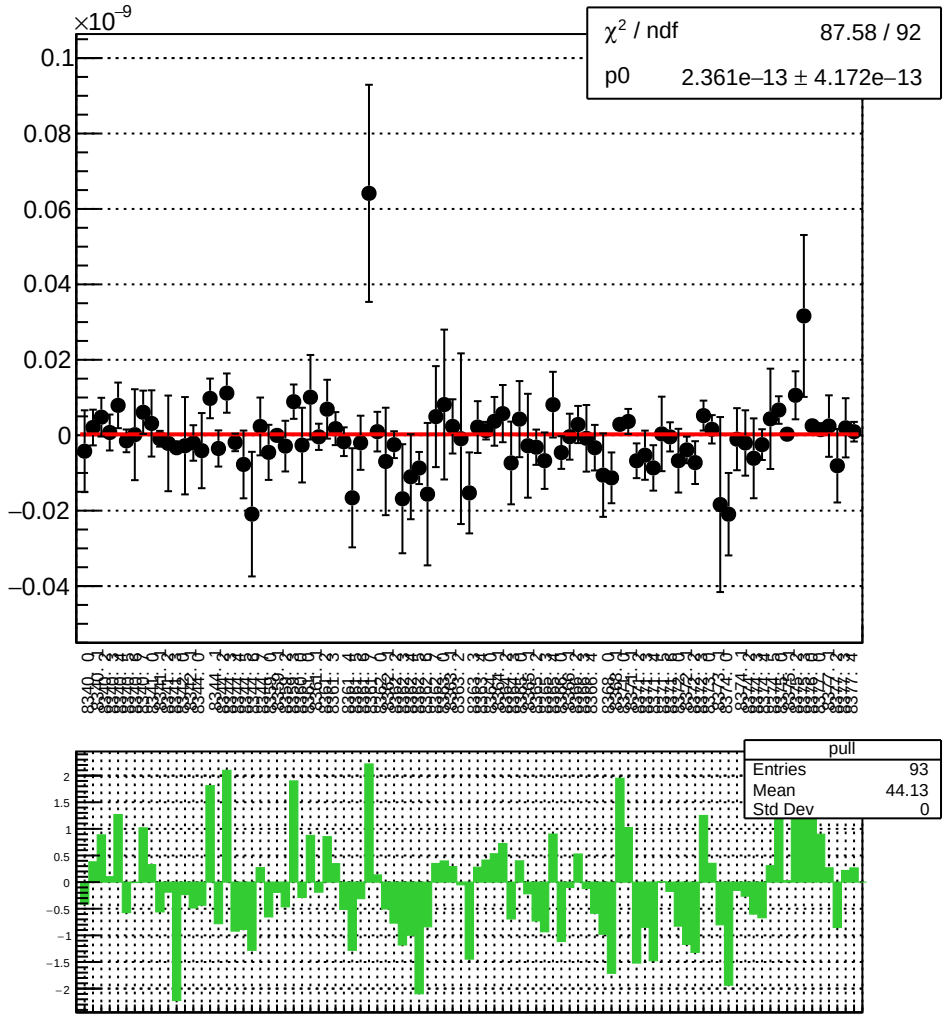

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 0.004802 ± 3.666e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

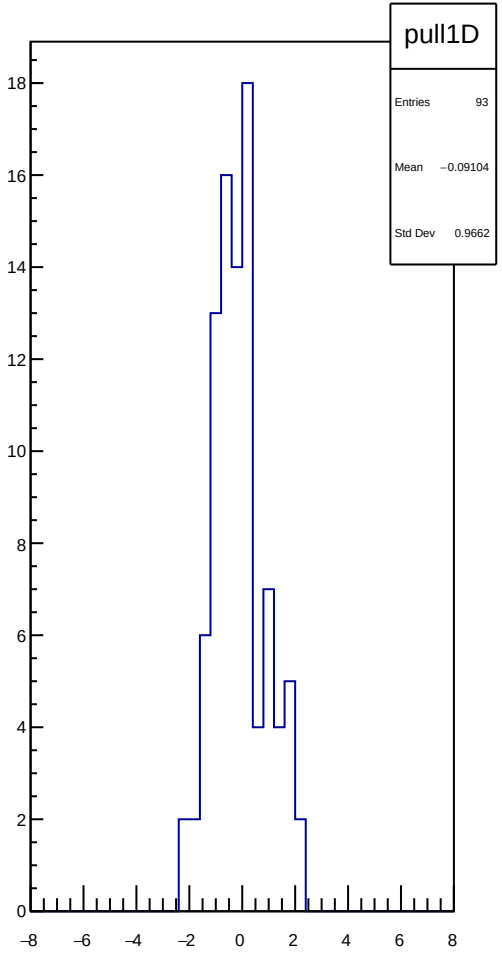

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.96 / 92
p0 −0.1719 ± 0.1493
pull
Entries 93
Mean −684.8
Std Dev 0
pull1D
Entries 93
Mean 0.004266
Std Dev 0.9156

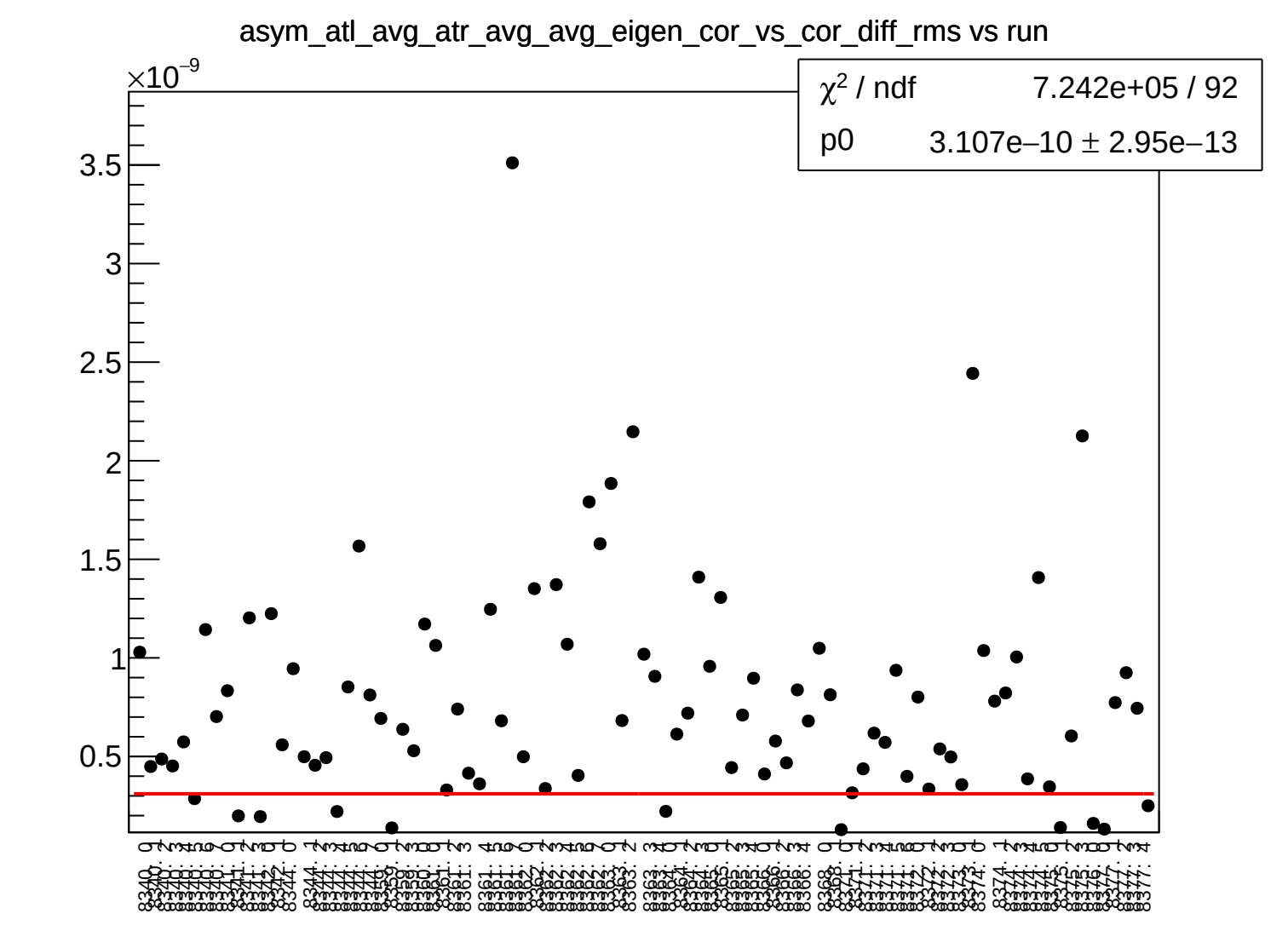

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.704e+04 / 92
p0 141.1 ± 0.1056
280
260
240
220
200
180
160
140
120
100
80

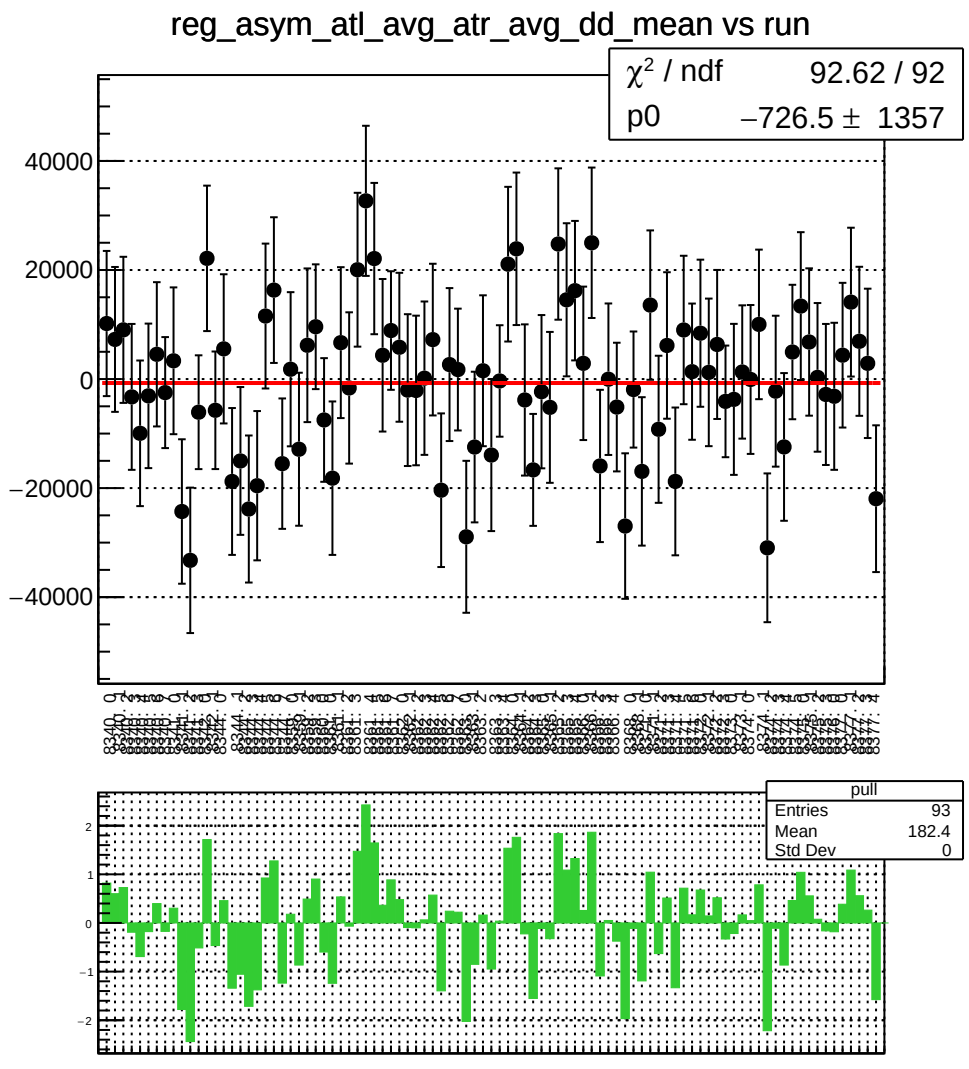

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.96 / 92
p0 −0.1719 ± 0.1493
pull
Entries 93
Mean −684.8
Std Dev 0
pull1D
Entries 93
Mean 0.004266
Std Dev 0.9156

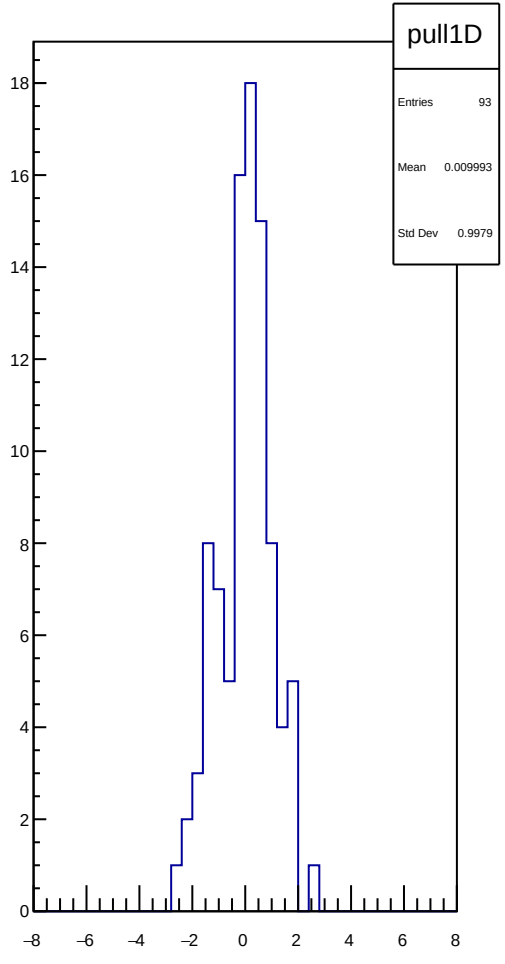

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.704e+04 / 92
p0 141.1 ± 0.1056
280
260
240
220
200
180
160
140
120
100
80

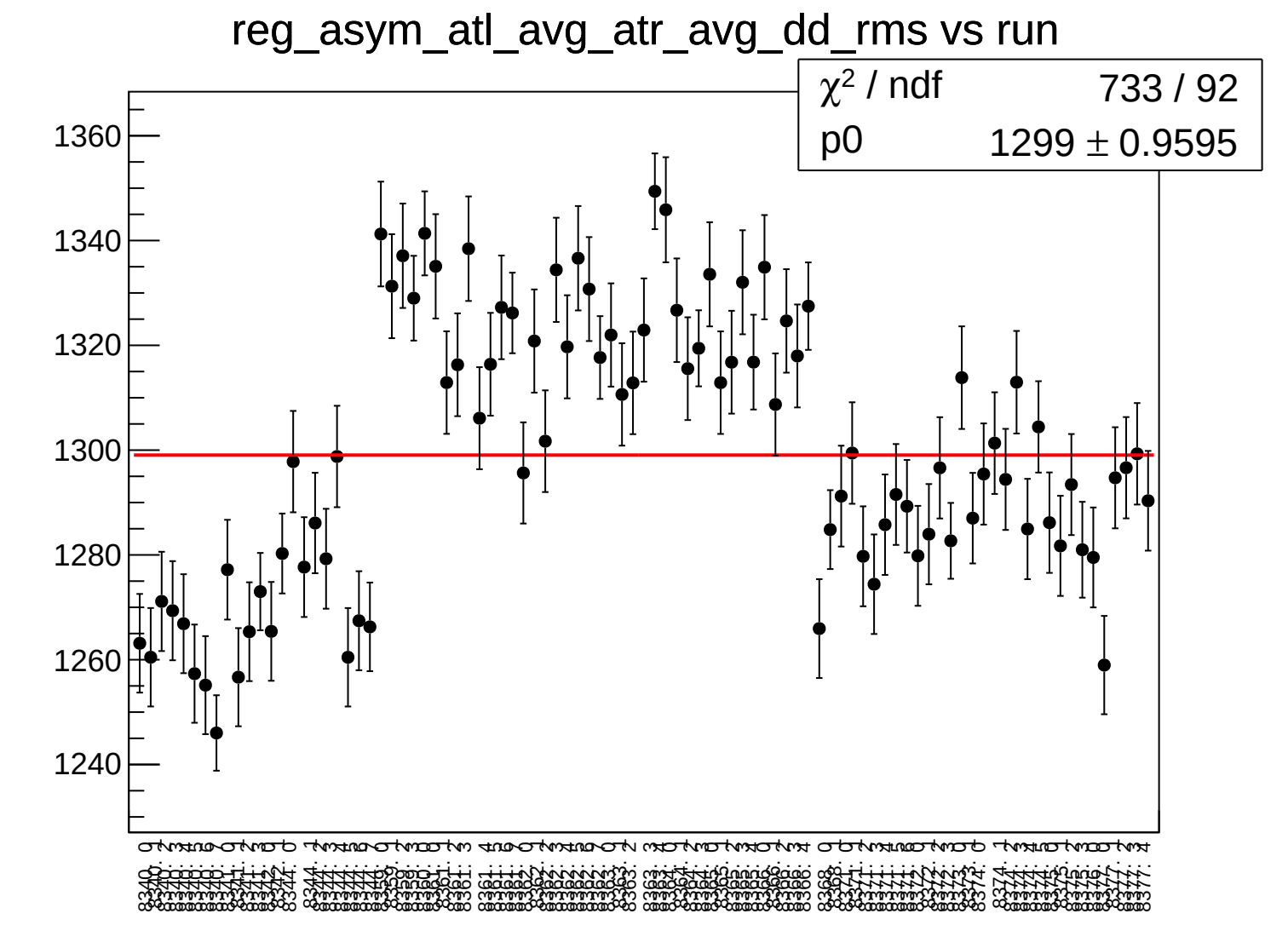

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 87.58 / 92
p0 2.361e−13 ± 4.172e−13
pull
Entries 93
Mean 44.13
Std Dev 0

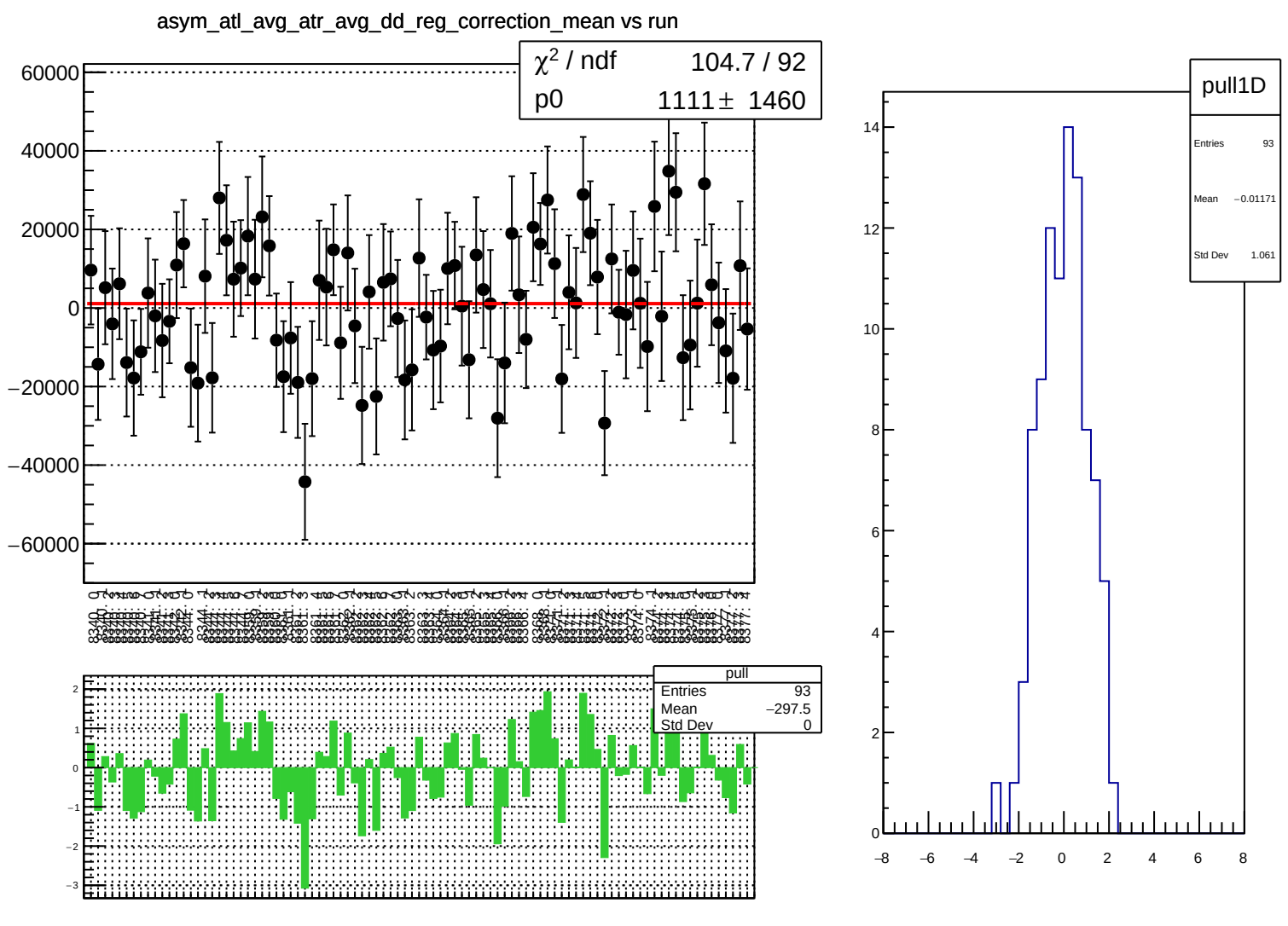

pull1D
Entries 93
Mean −0.09104
Std Dev 0.9662

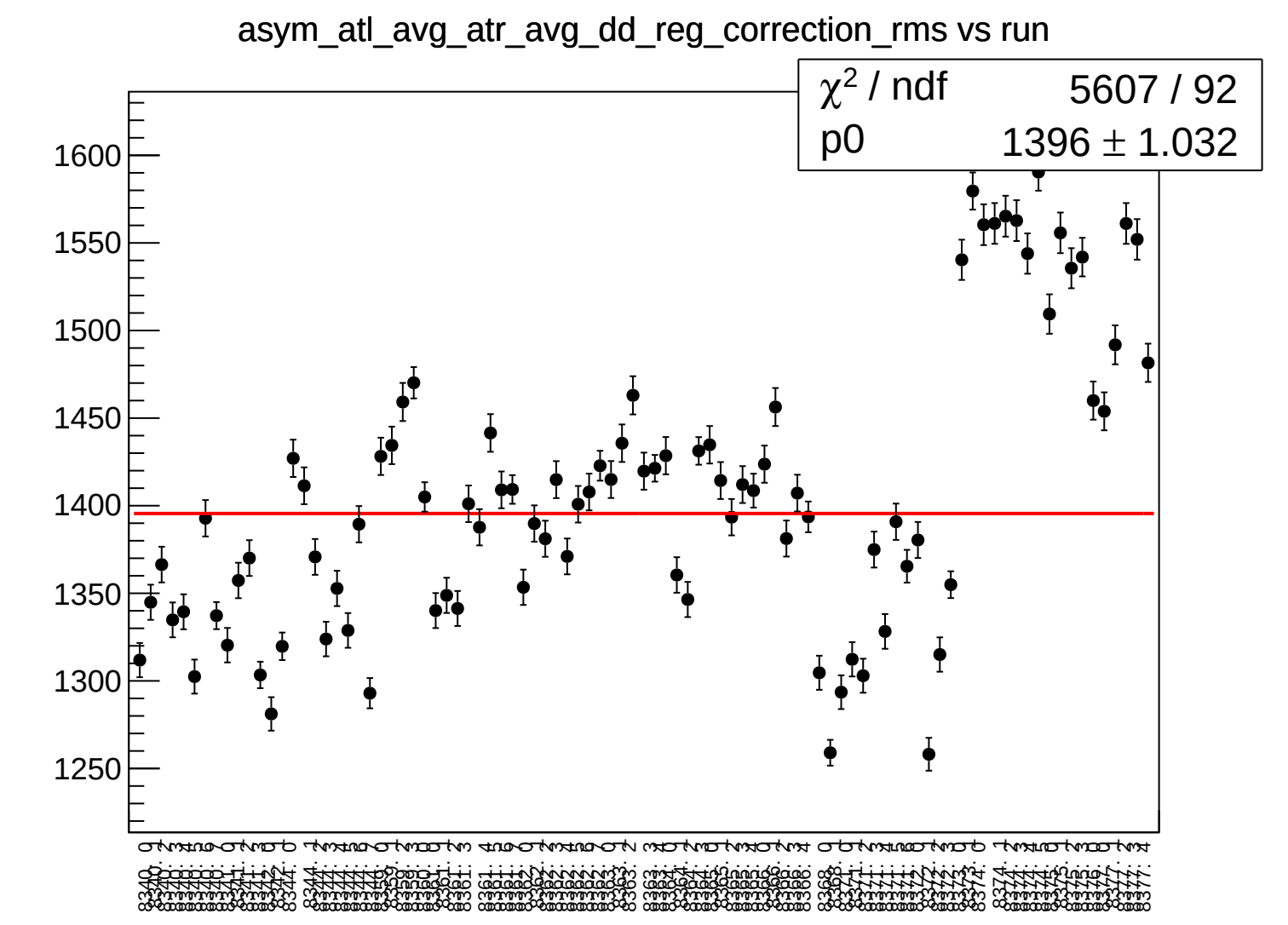

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.242e+05 / 92
p0 3.107e−10 ± 2.95e−13
3.5
3
2.5
2
1.5
1
0.5

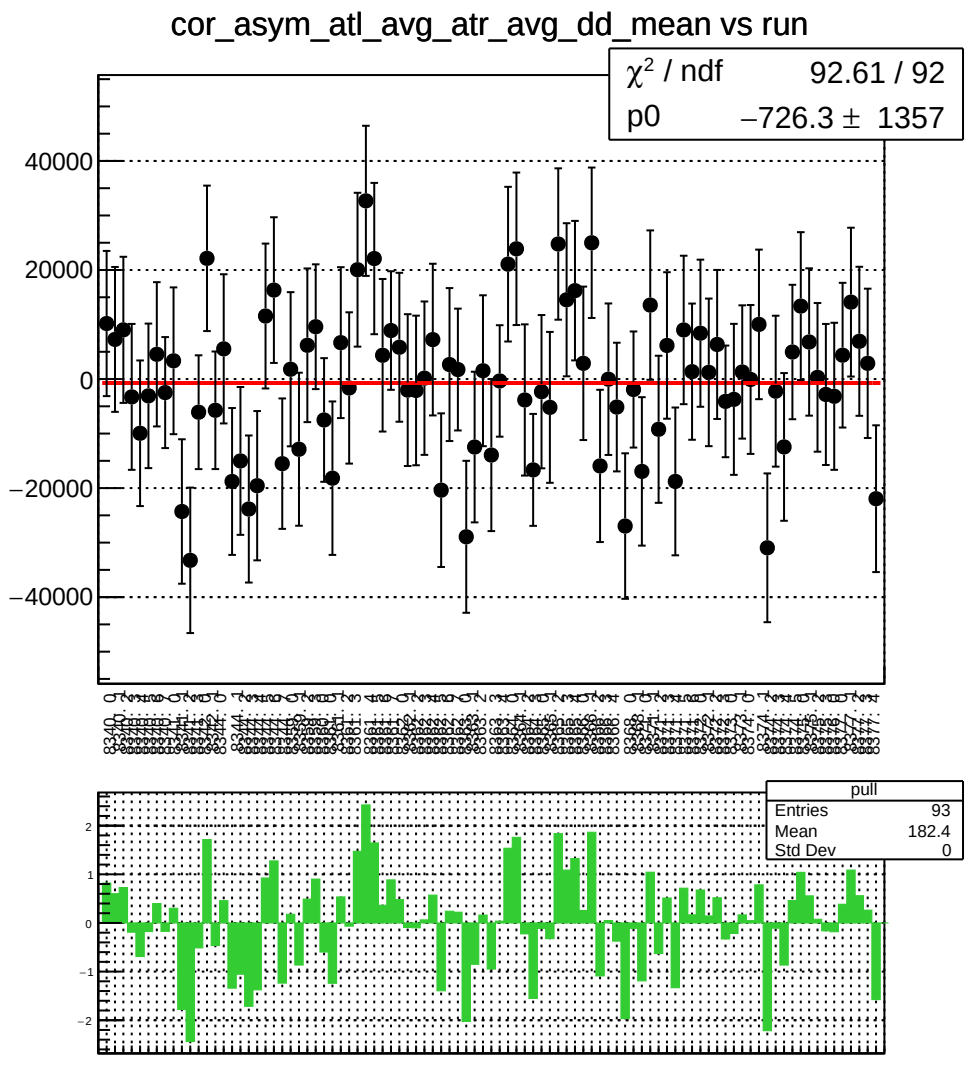

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.62 / 92
p0 −726.5 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2

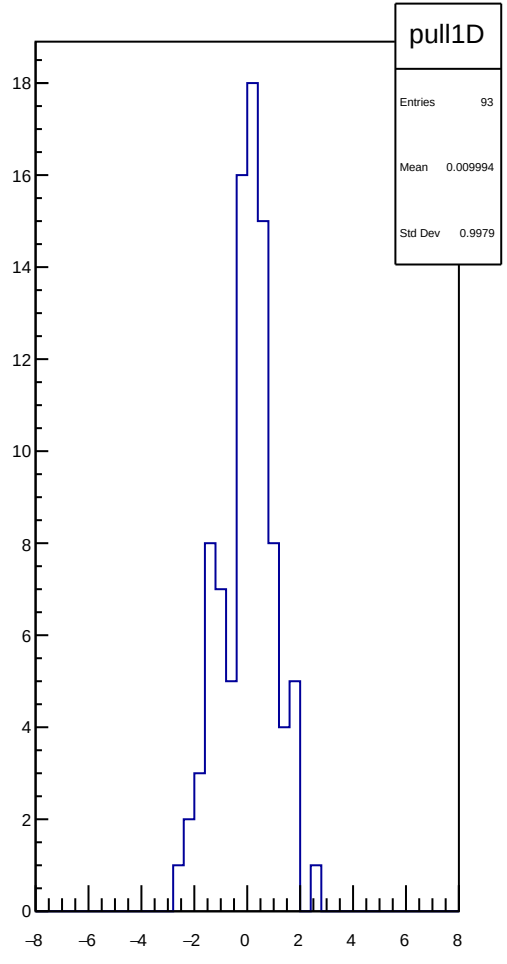

pull1D
Entries 93
Mean 0.009993
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

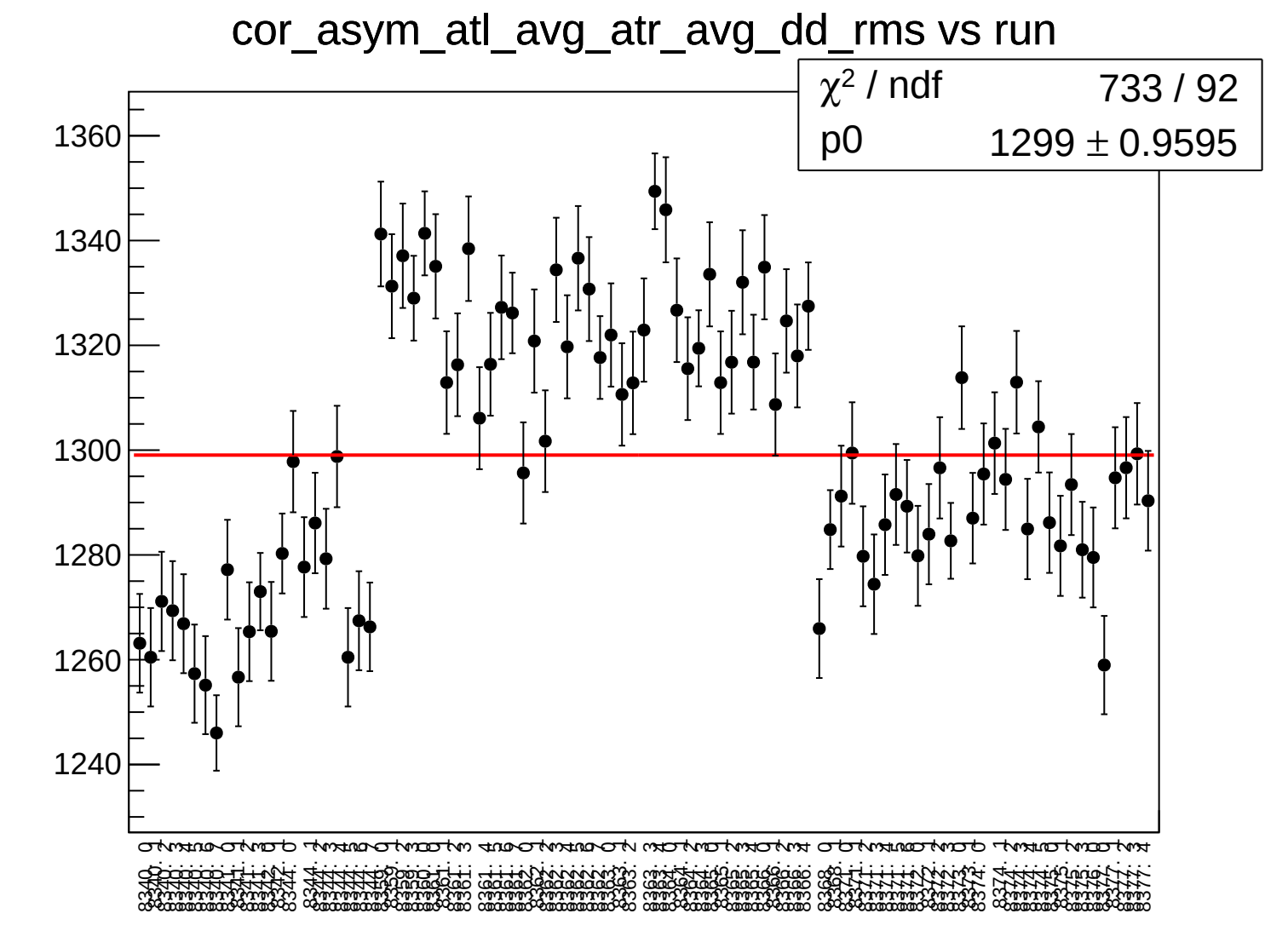

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

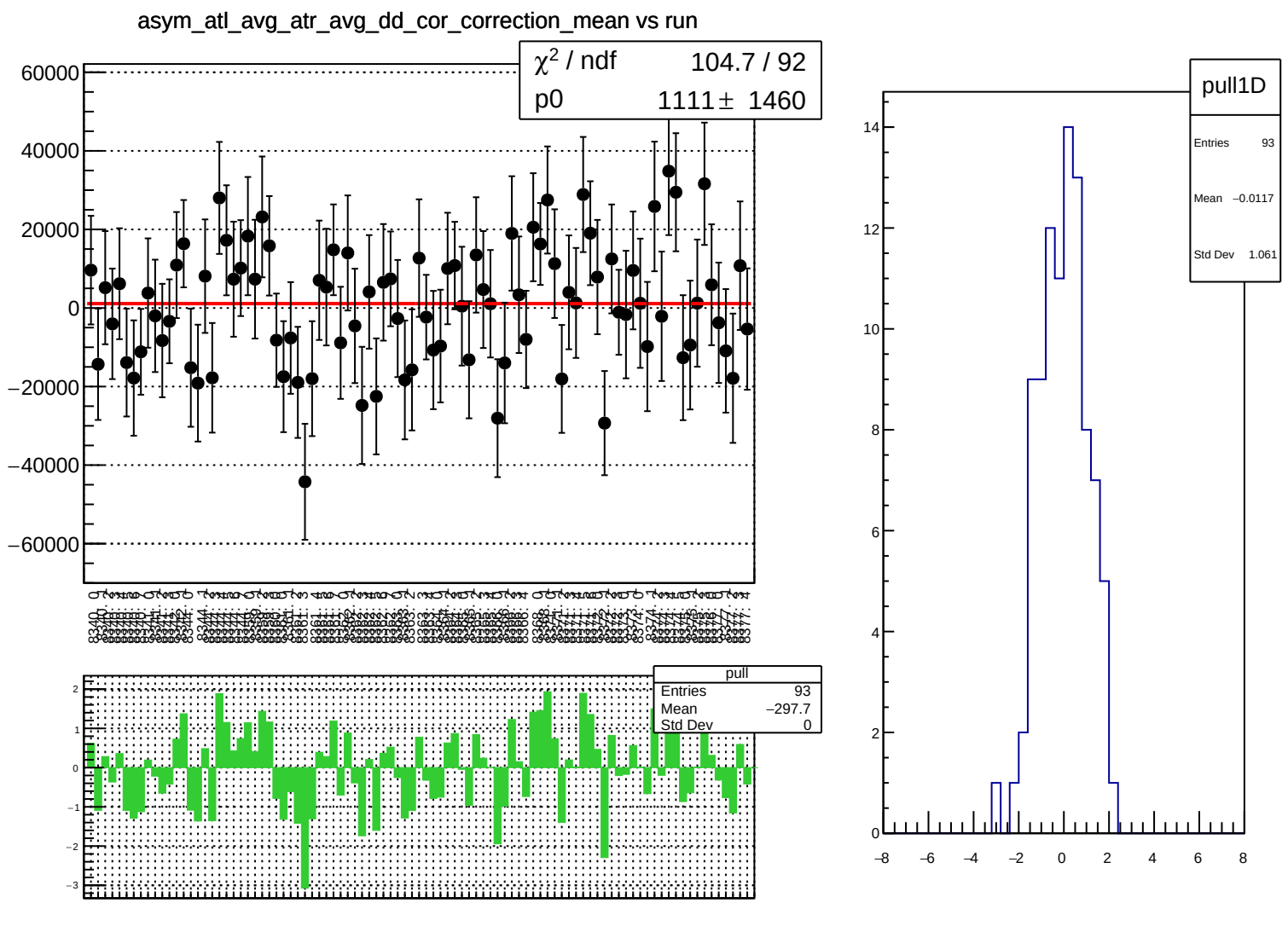

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −297.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01171
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

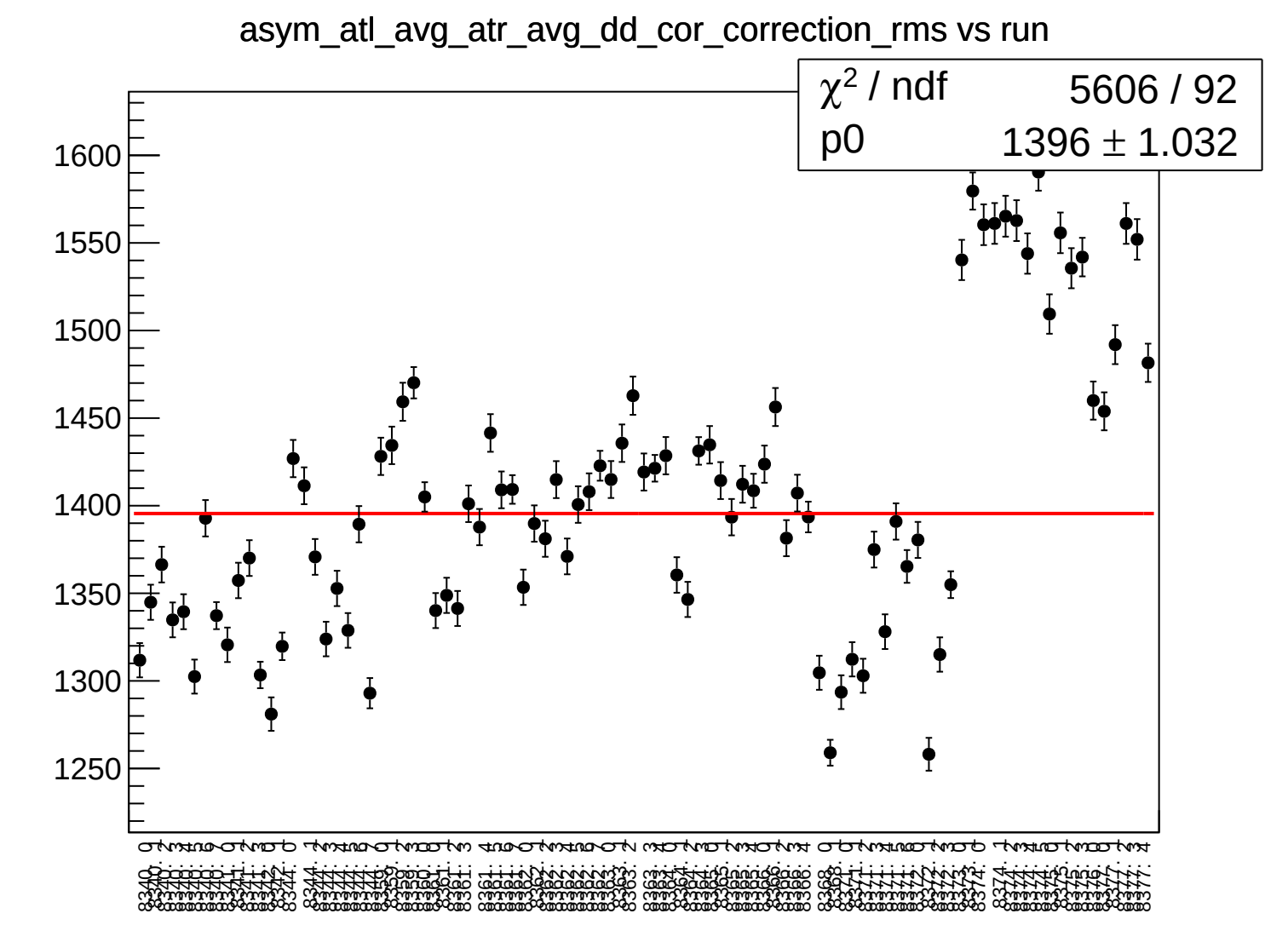

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5607 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

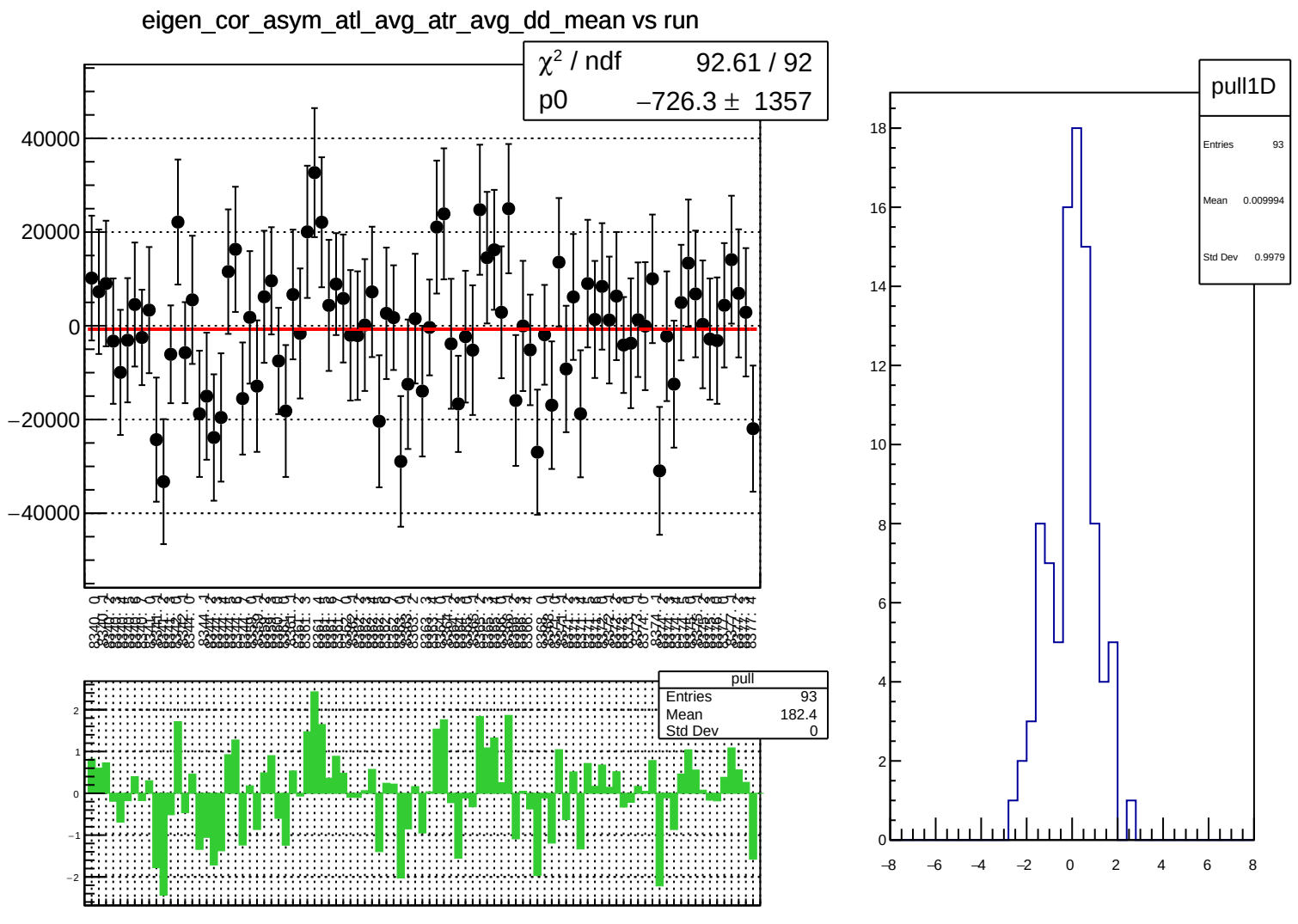

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.61 / 92
p0 −726.3 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2

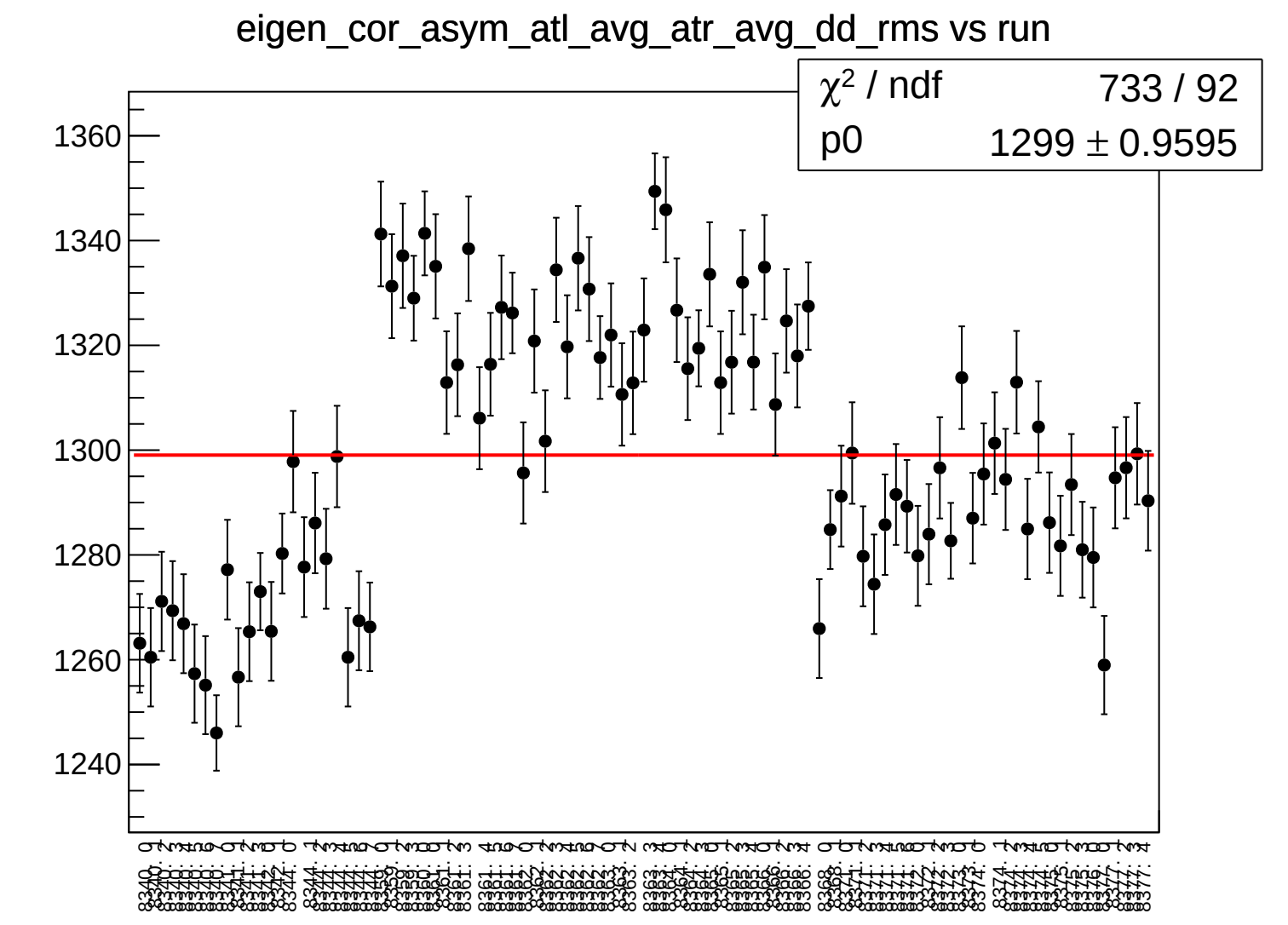

pull1D
Entries 93
Mean 0.009994
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

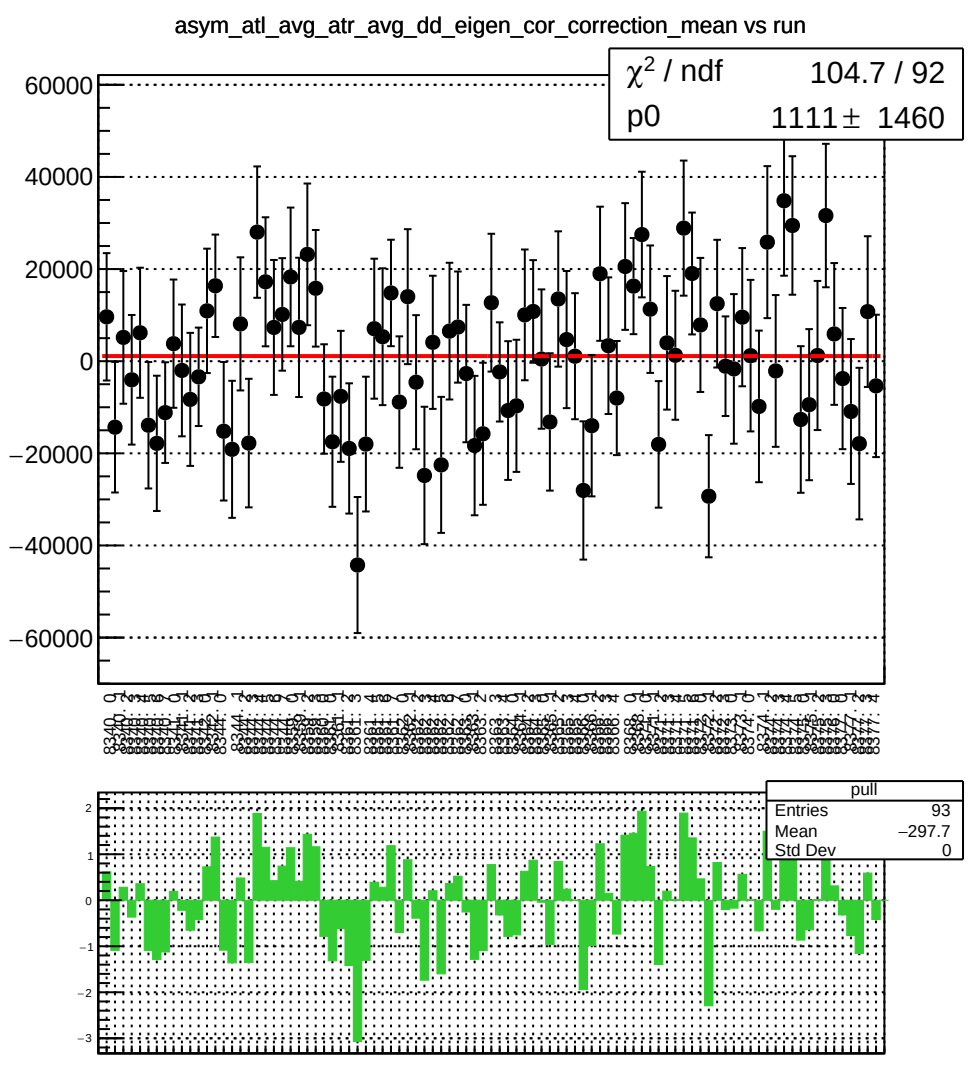

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

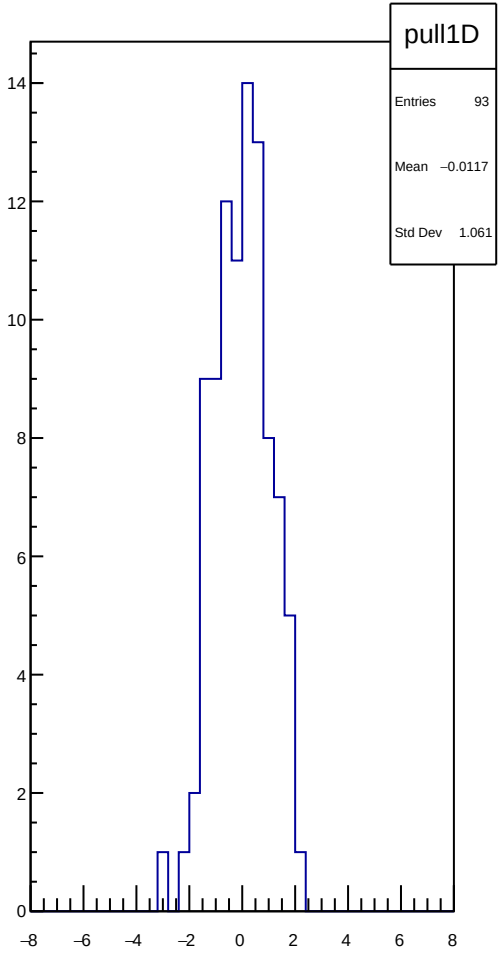

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −297.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0117
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

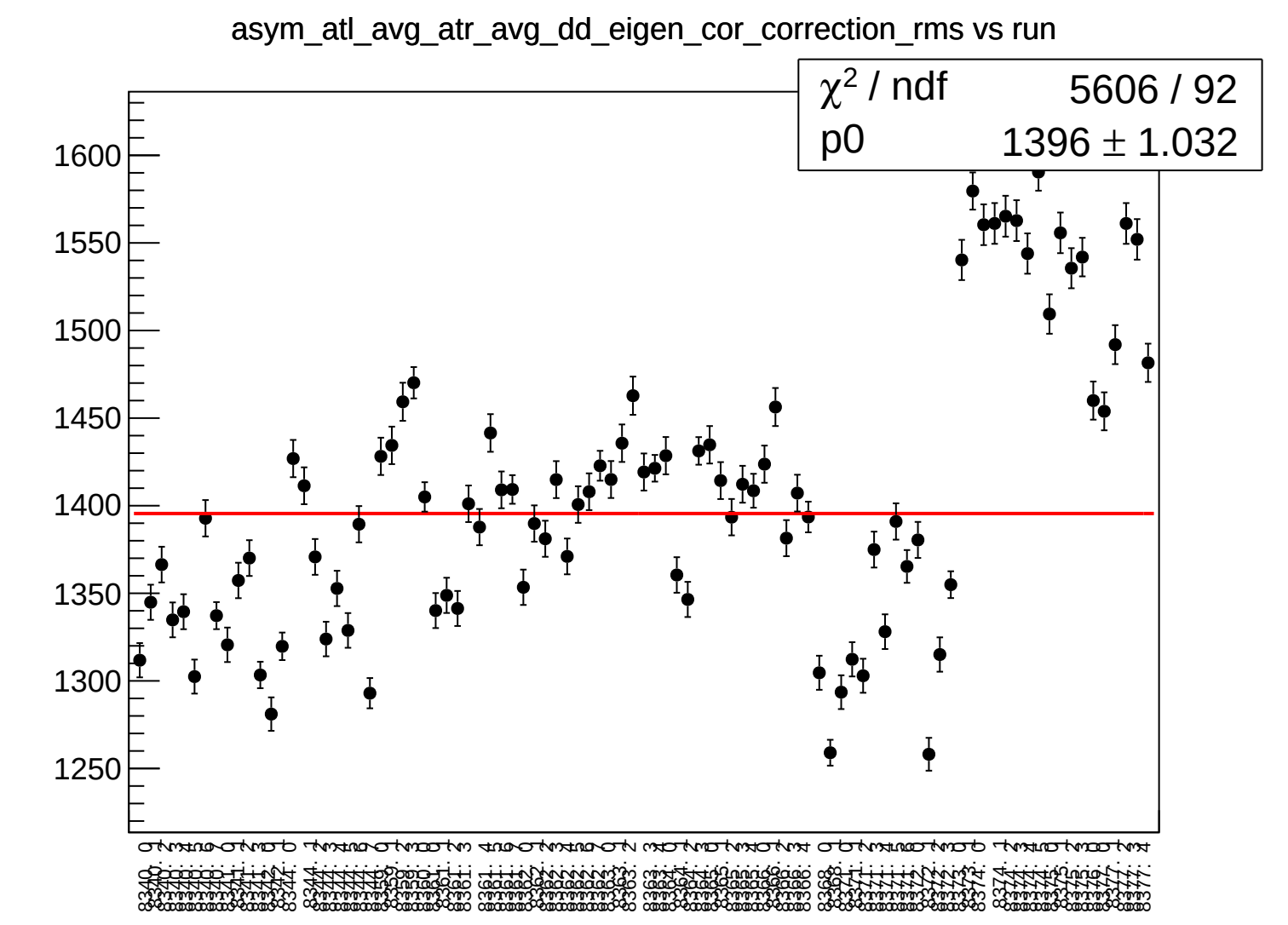

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5606 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

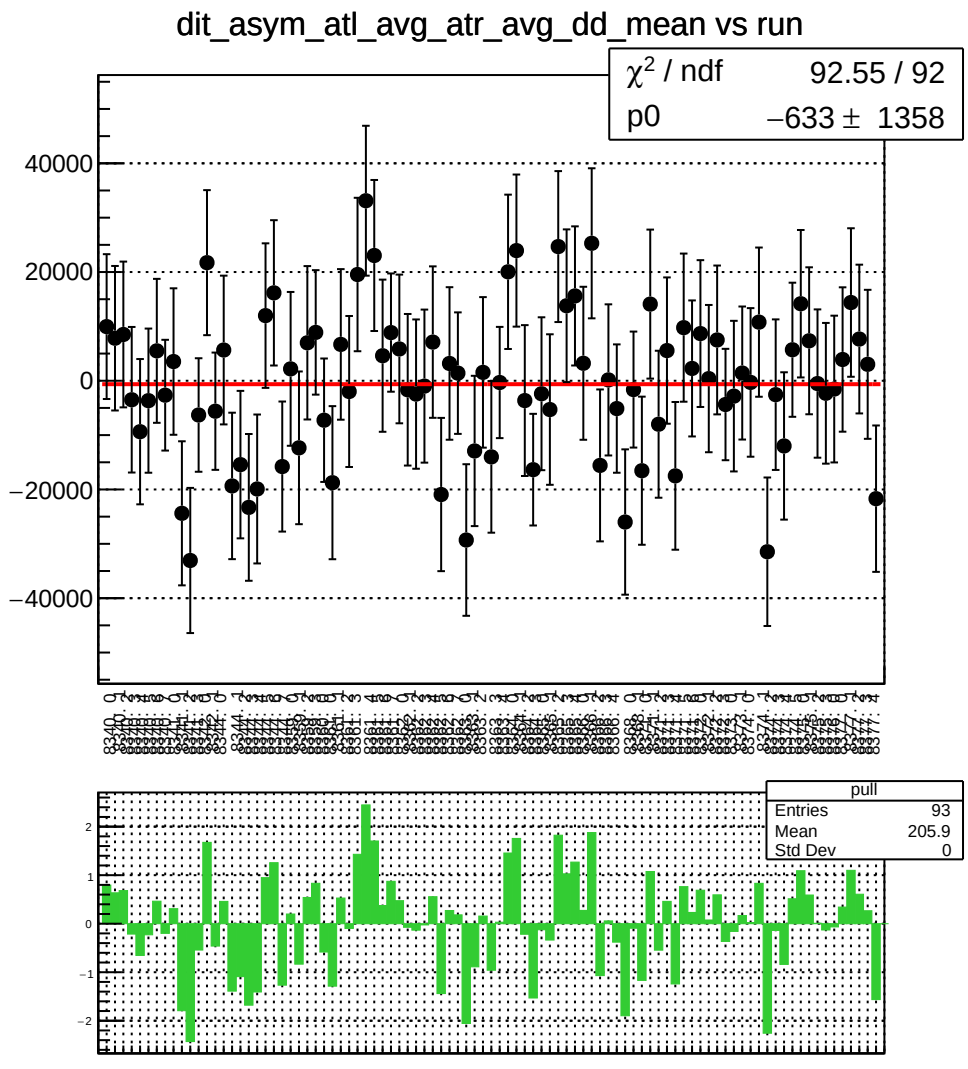

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.61 / 92
p0 −726.3 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009994
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

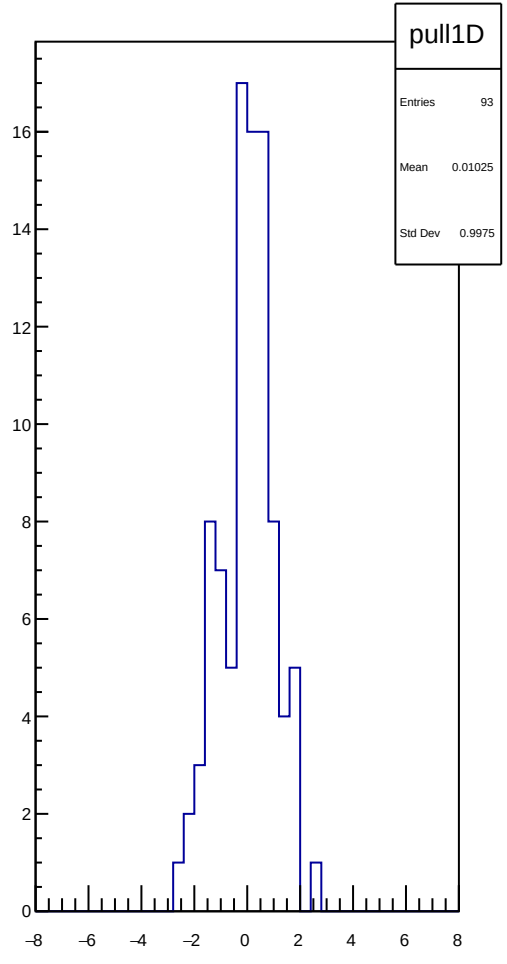

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

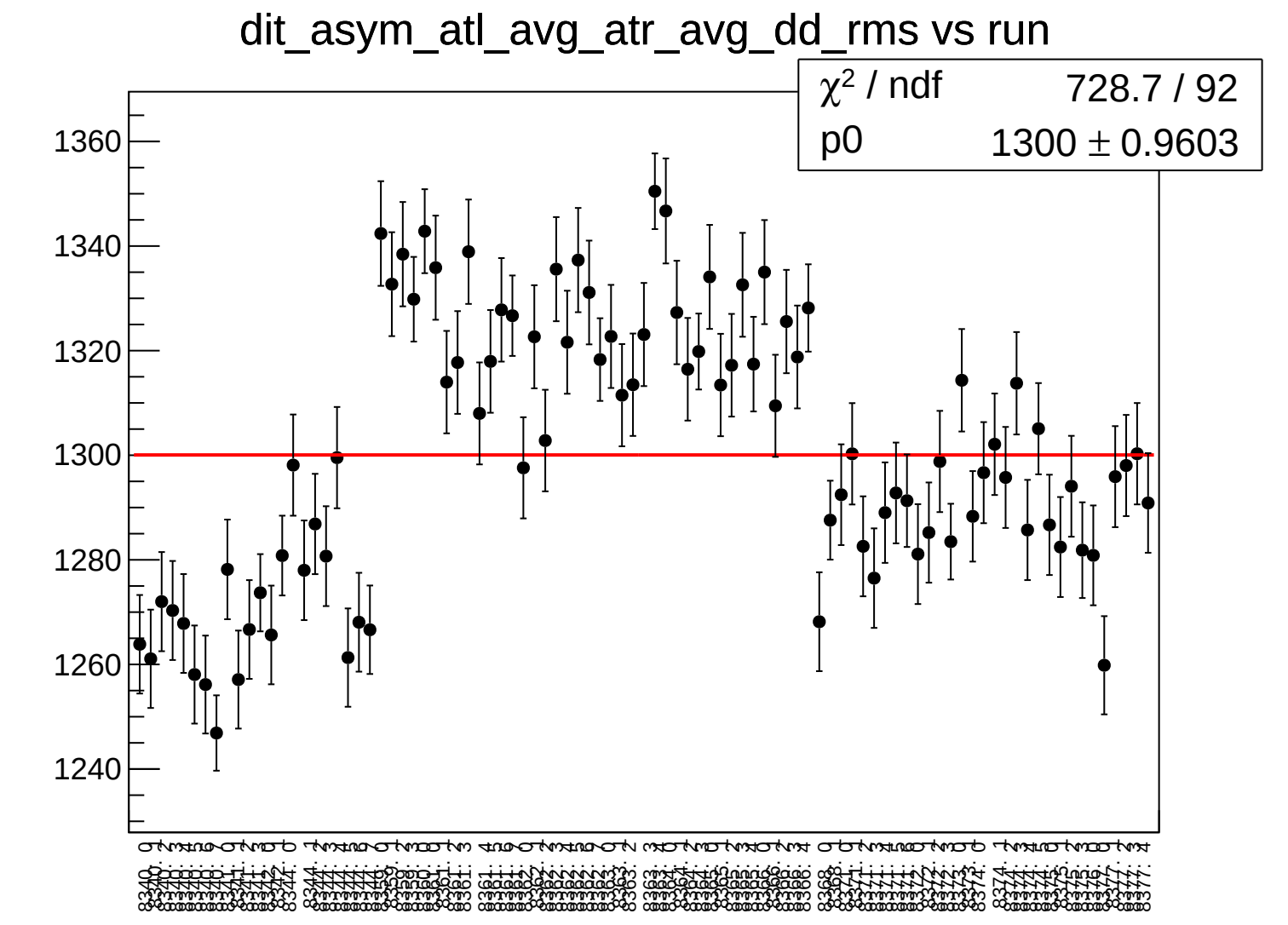

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −297.7
Std Dev 0
2
1
0
−1
−2
−3

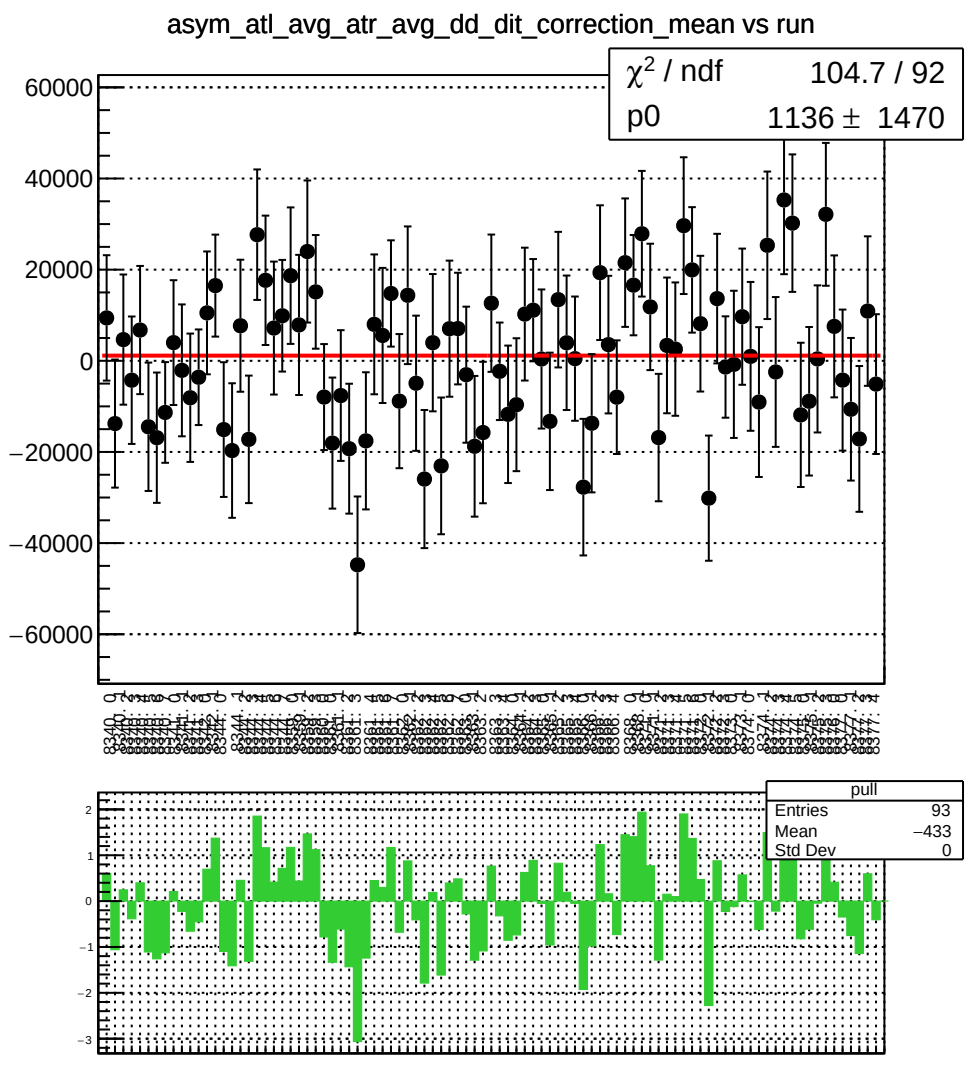

pull1D
Entries 93
Mean −0.0117
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

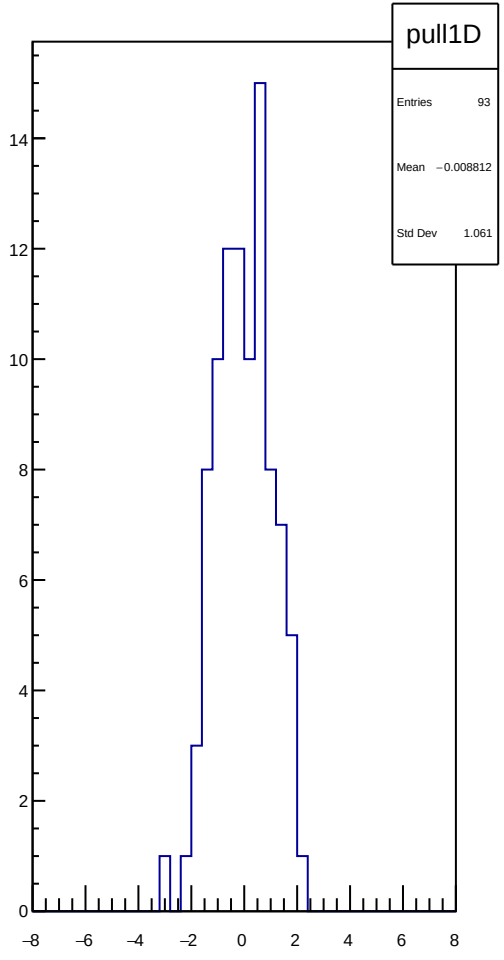

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5606 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

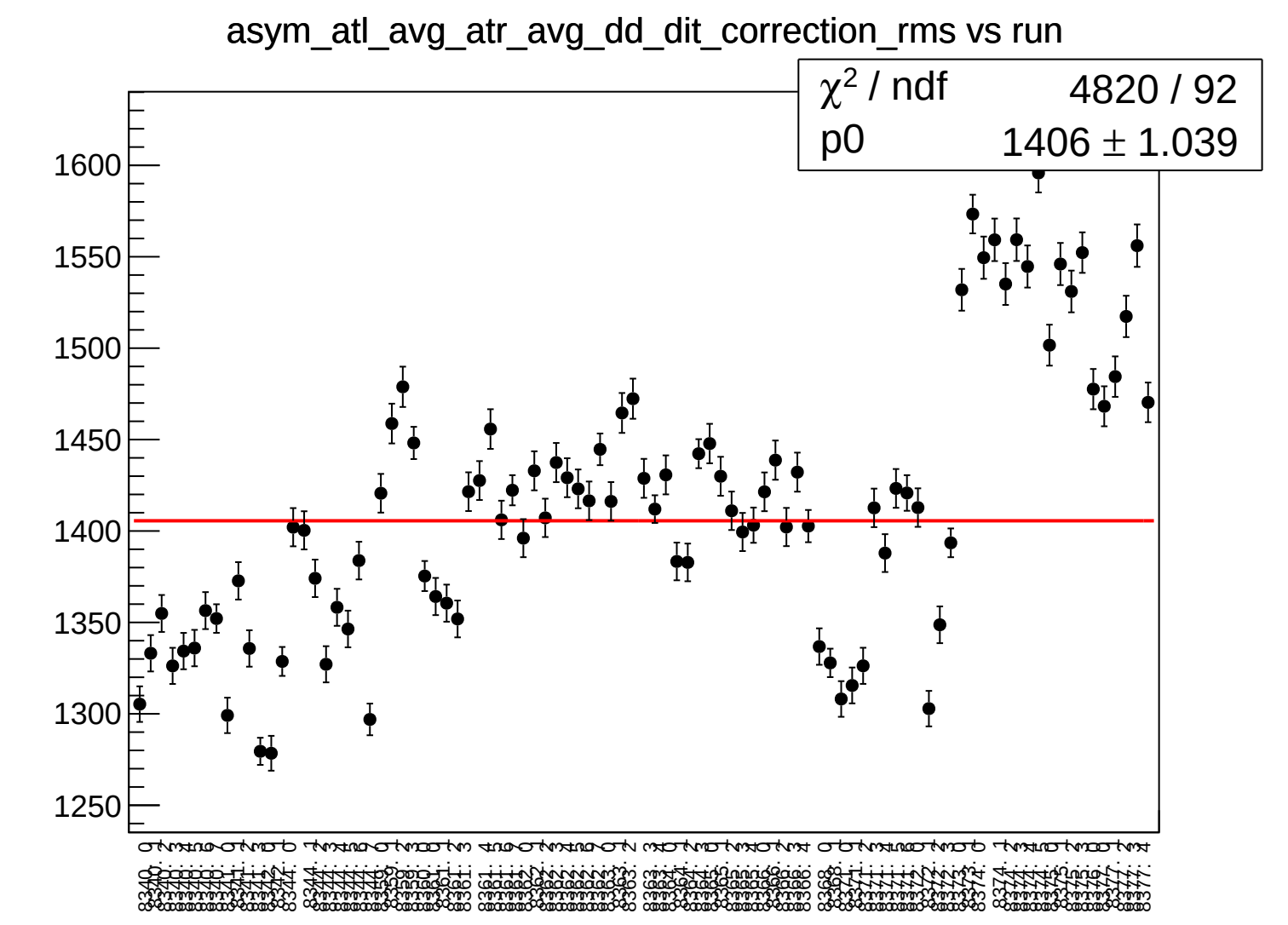

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.55 / 92
p0 −633 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 205.9
Std Dev 0
2
1
0
−1
−2

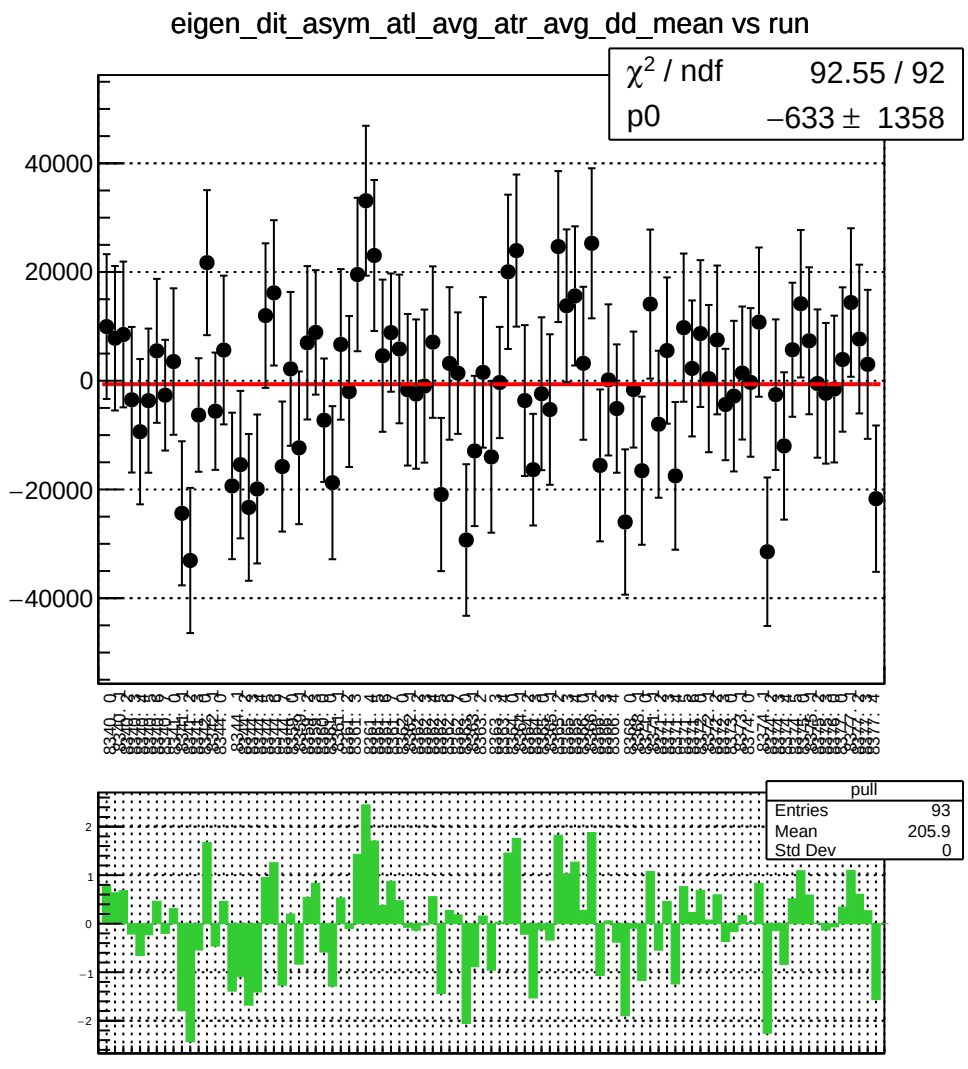

pull1D
Entries 93
Mean 0.01025
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

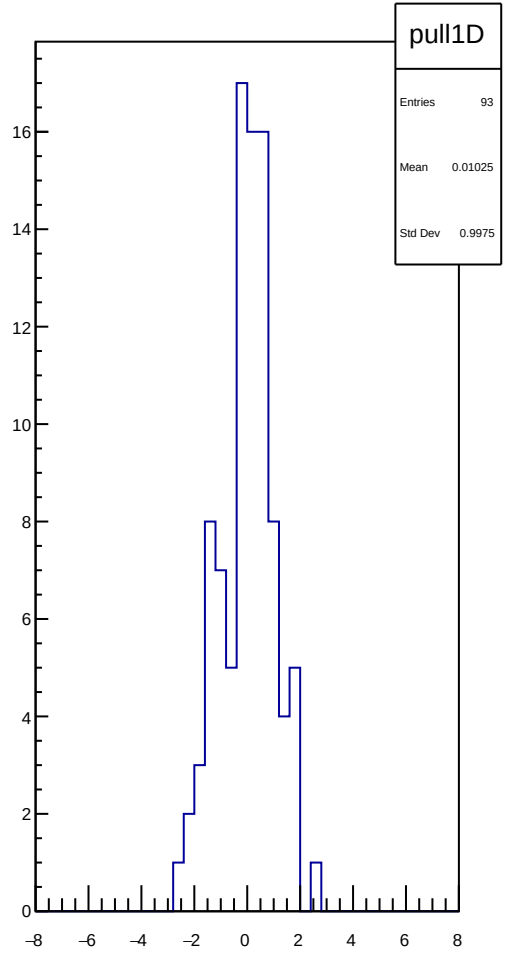

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 728.7 / 92
p0 1300 ± 0.9603
1360
1340
1320
1300
1280
1260
1240

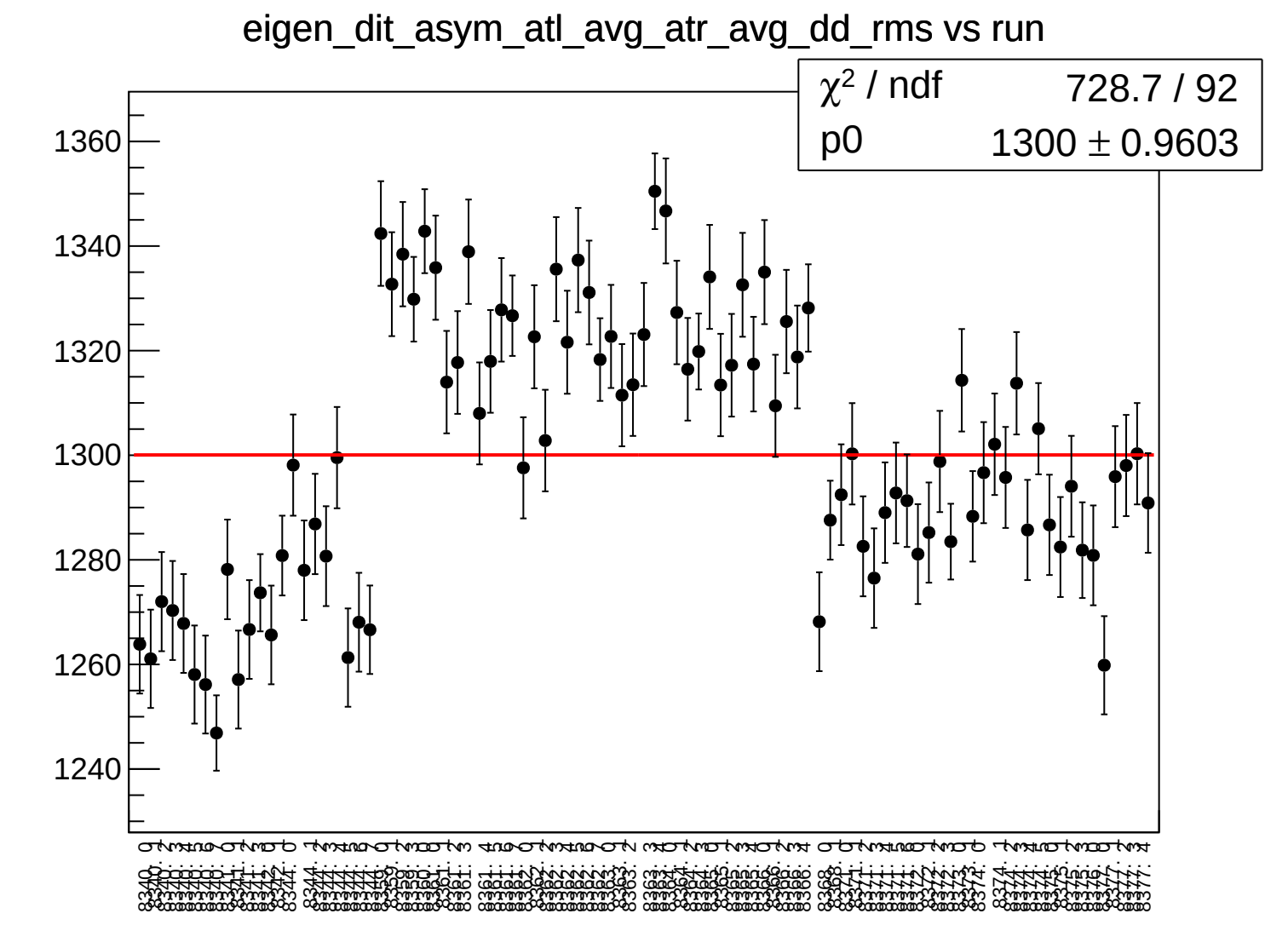

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1136 ± 1470
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −433
Std Dev 0
2
1
0
−1
−2
−3

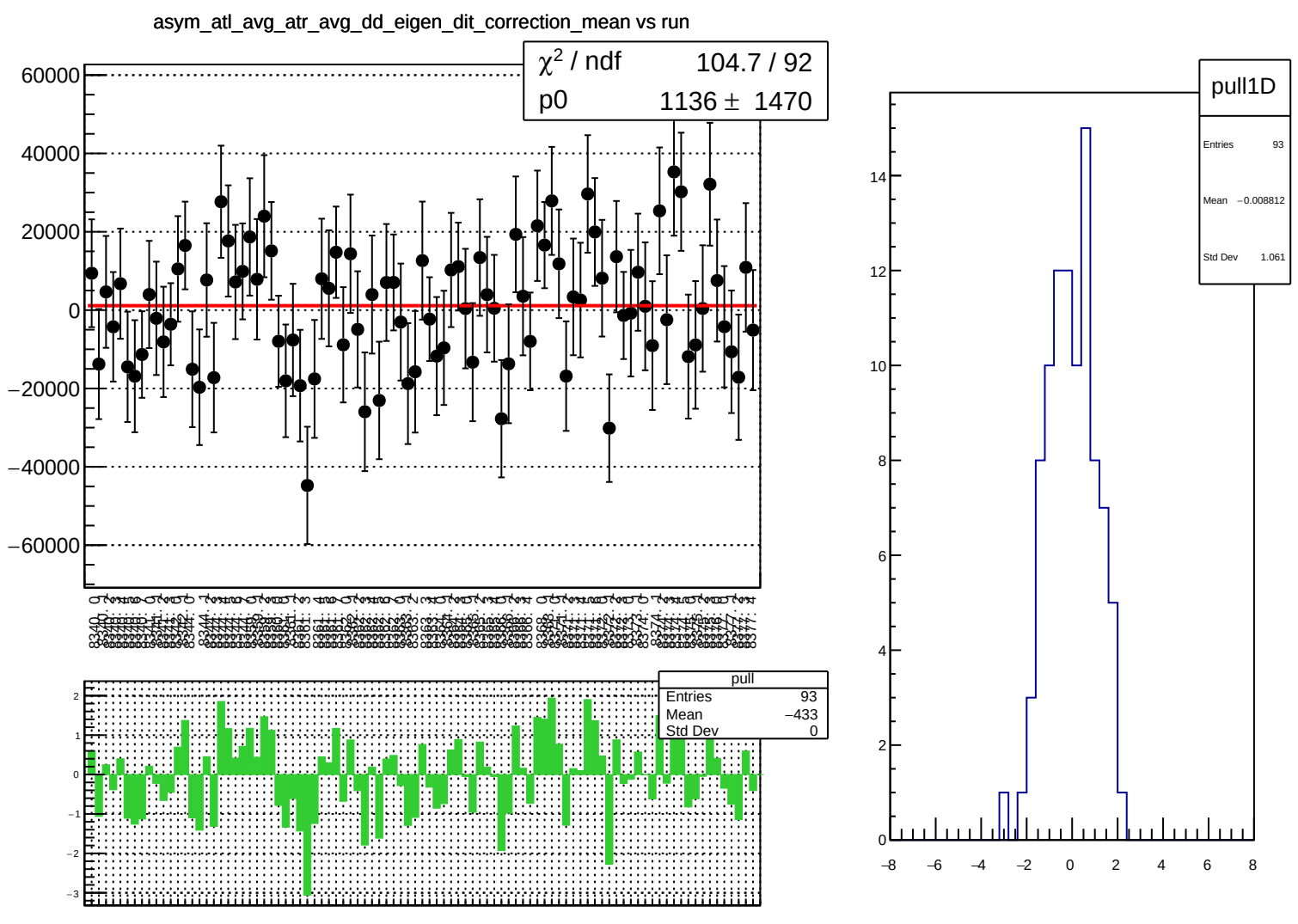

pull1D
Entries 93
Mean −0.008812
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

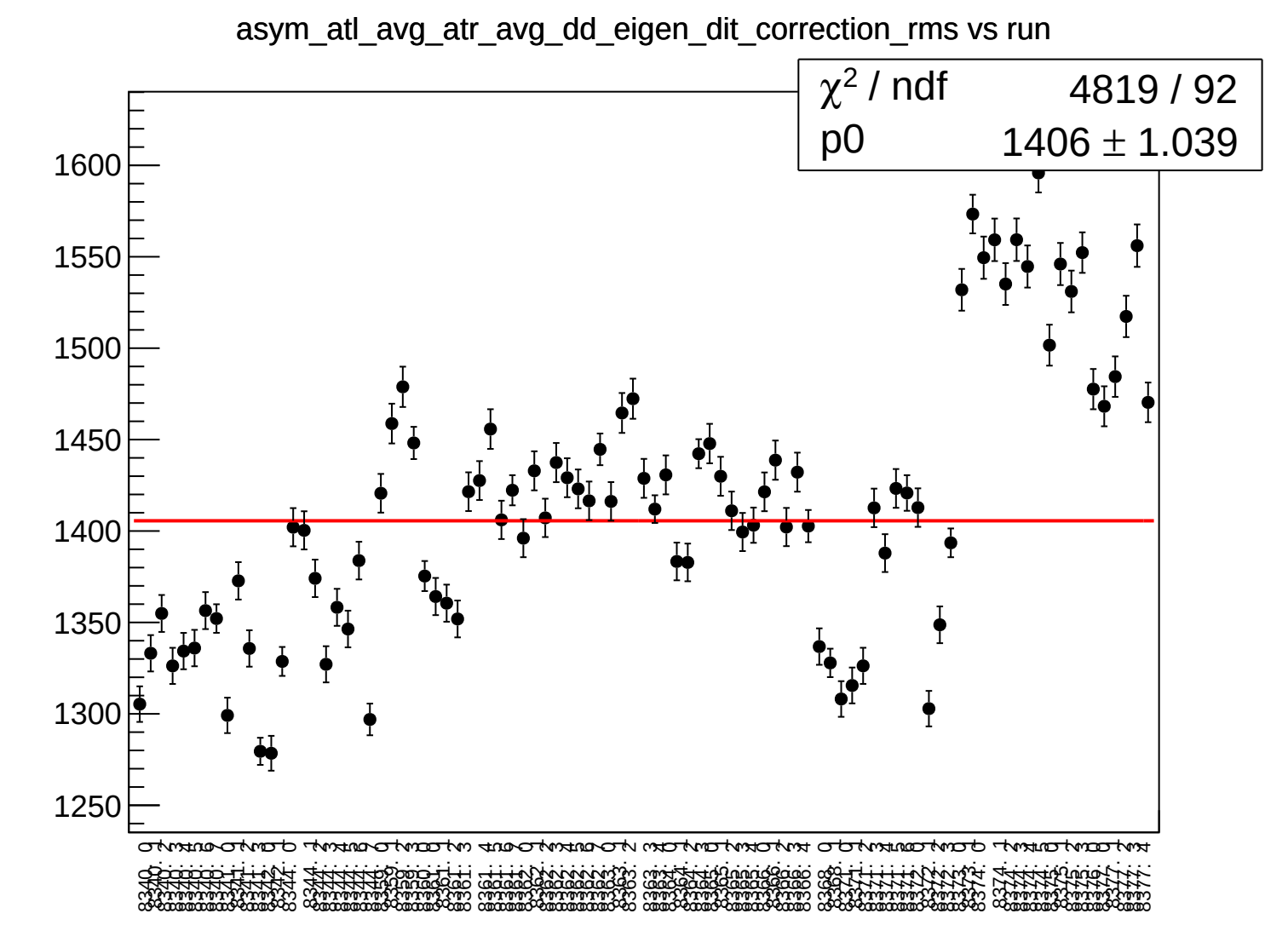

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4820 / 92
p0 1406 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250

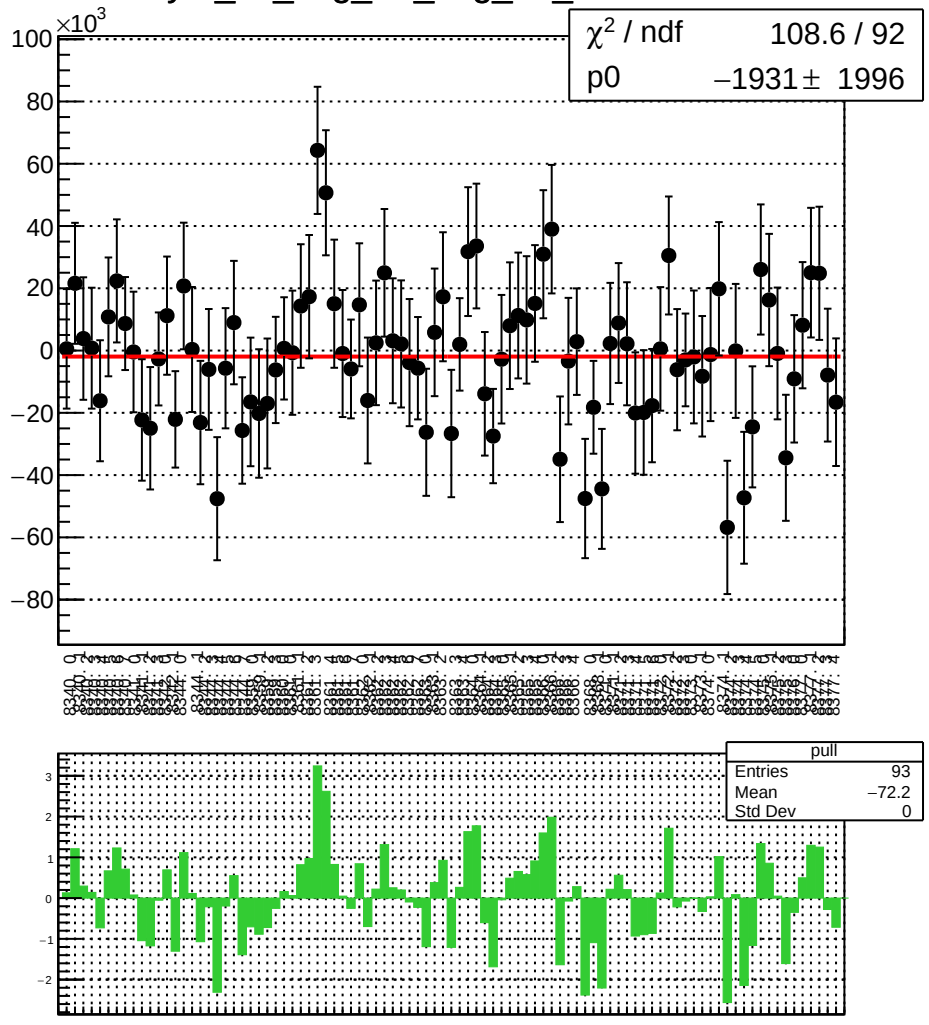

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 92.55 / 92
p0 −633 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 205.9
Std Dev 0
2
1
0
−1
−2

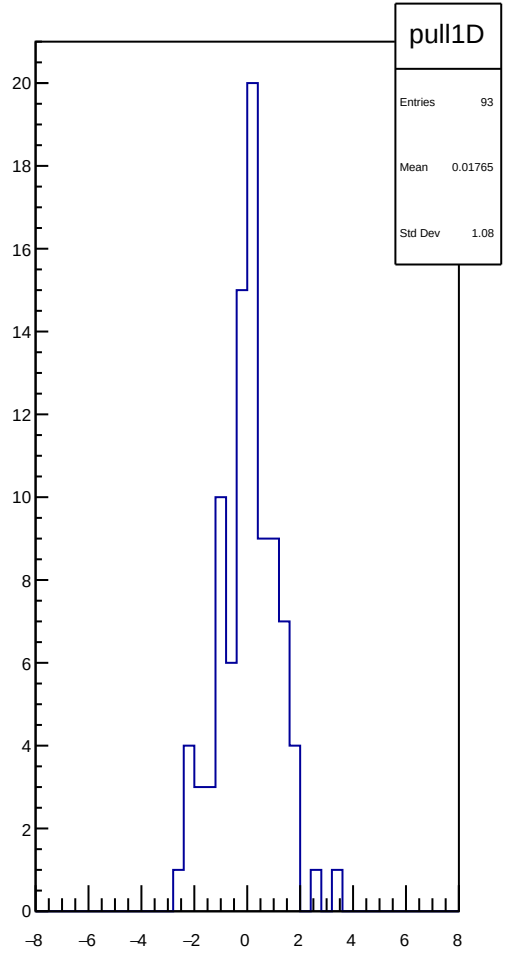

pull1D
Entries 93
Mean 0.01025
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

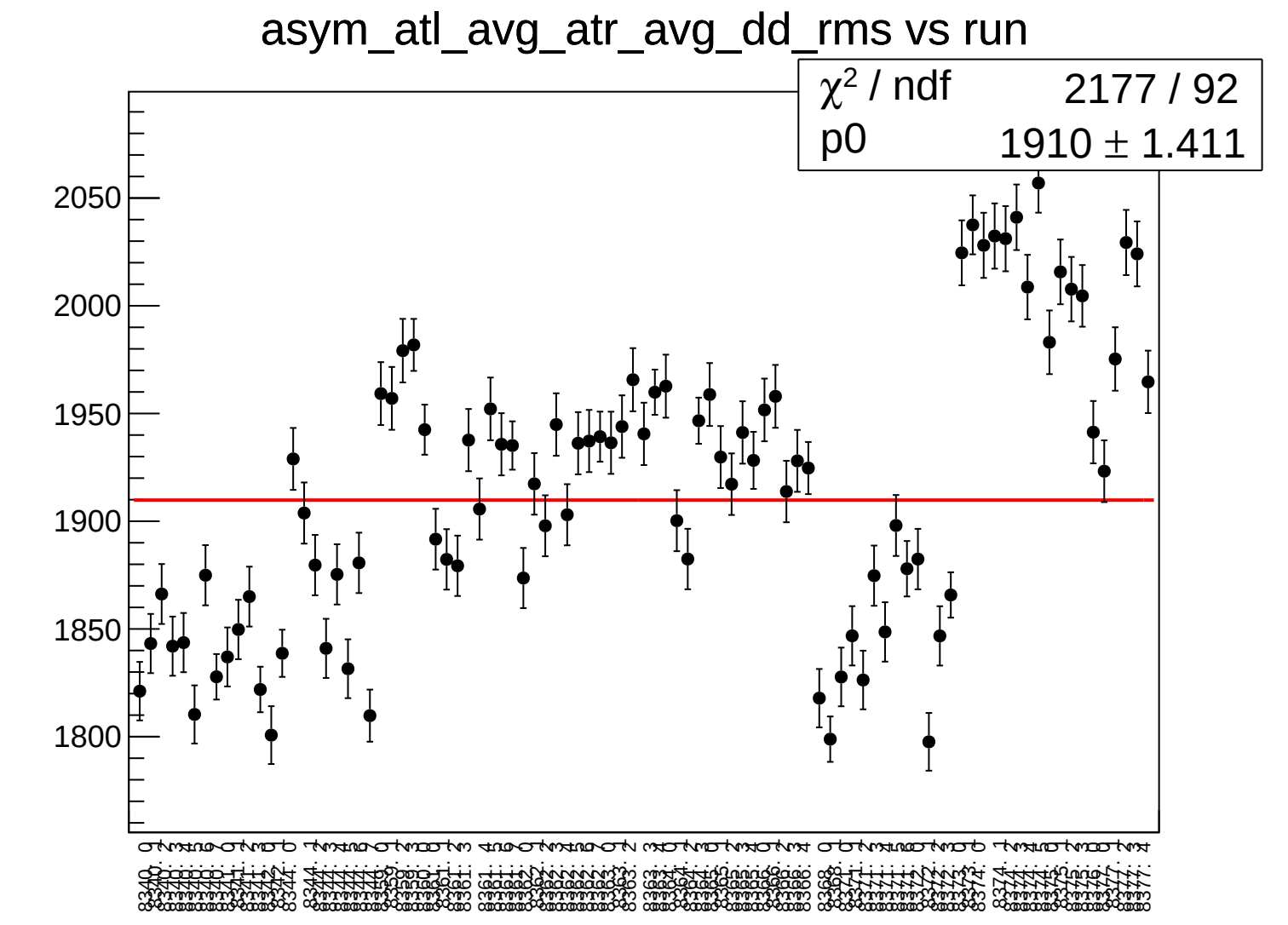

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 728.7 / 92
p0 1300 ± 0.9603
1360
1340
1320
1300
1280
1260
1240

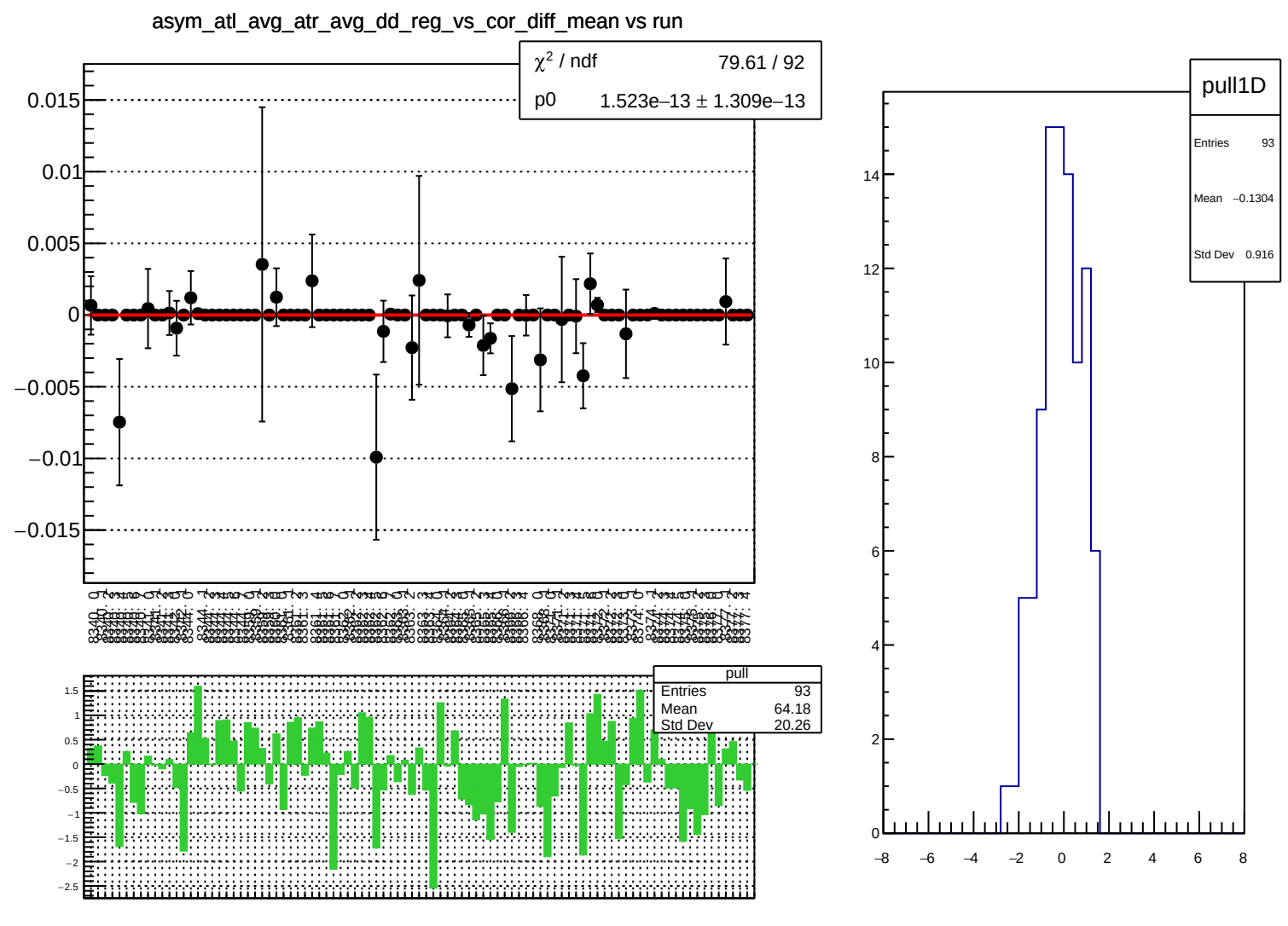

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1136 ± 1470
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −433
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.008812
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

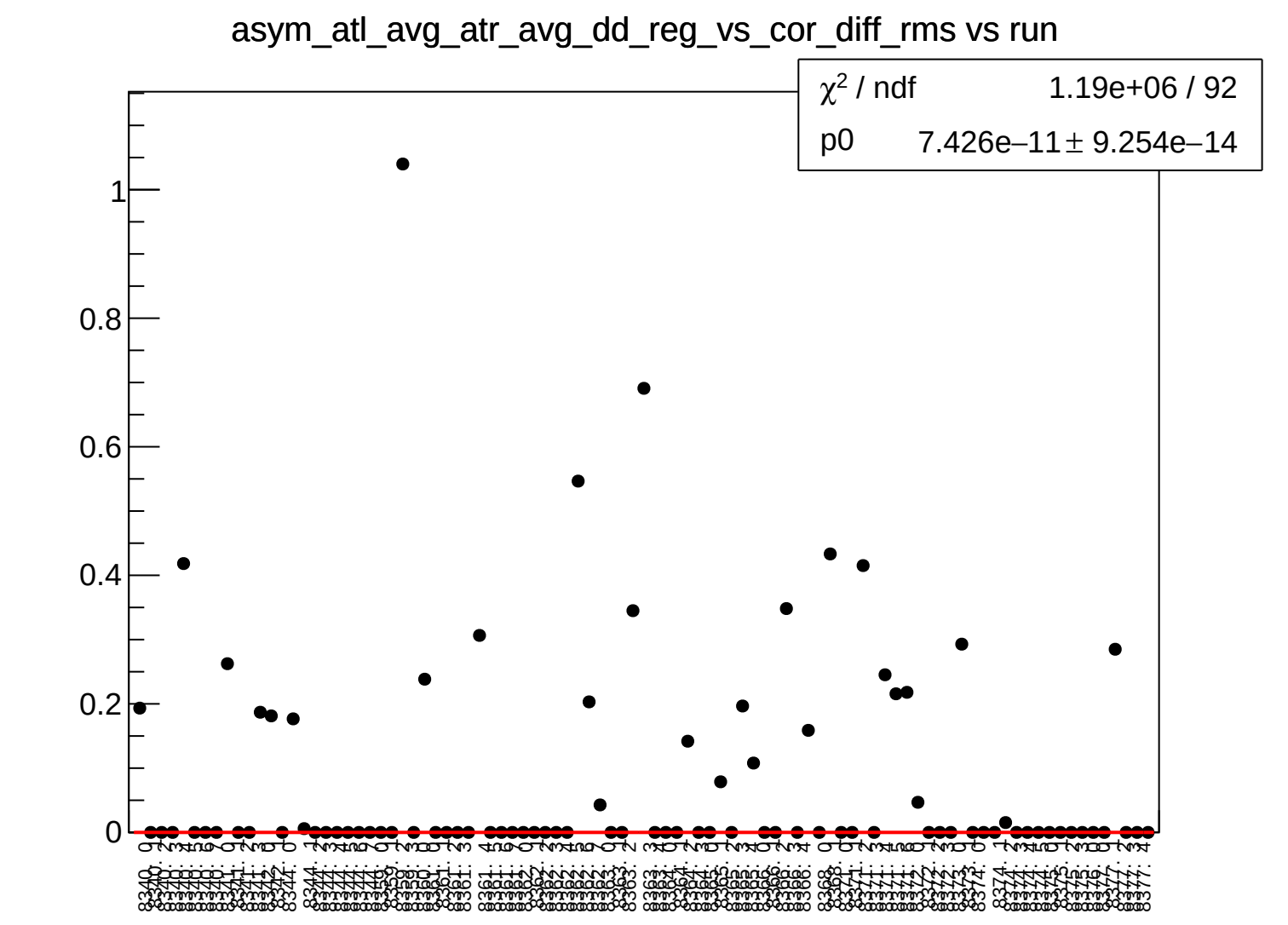

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4819 / 92
p0 1406 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250

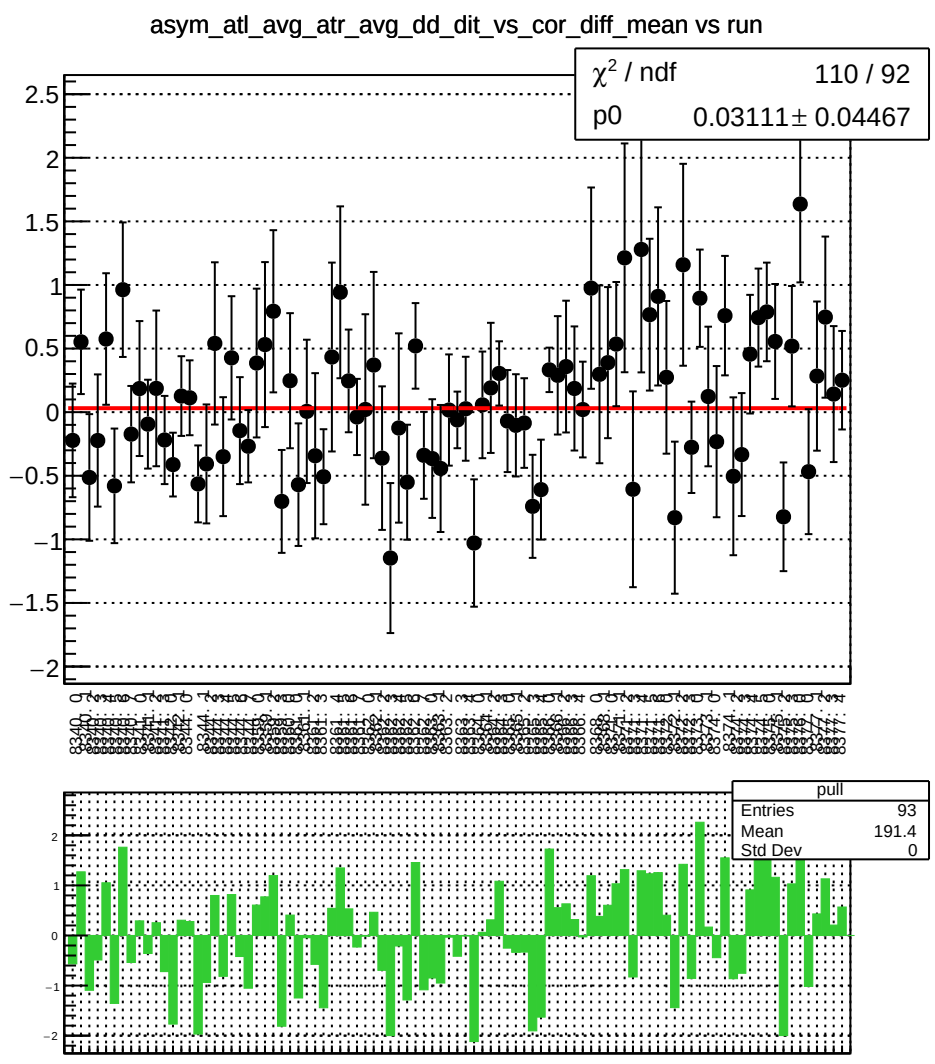

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 108.6 / 92
p0 −1931 ± 1996
pull
Entries 93
Mean −72.2
Std Dev 0

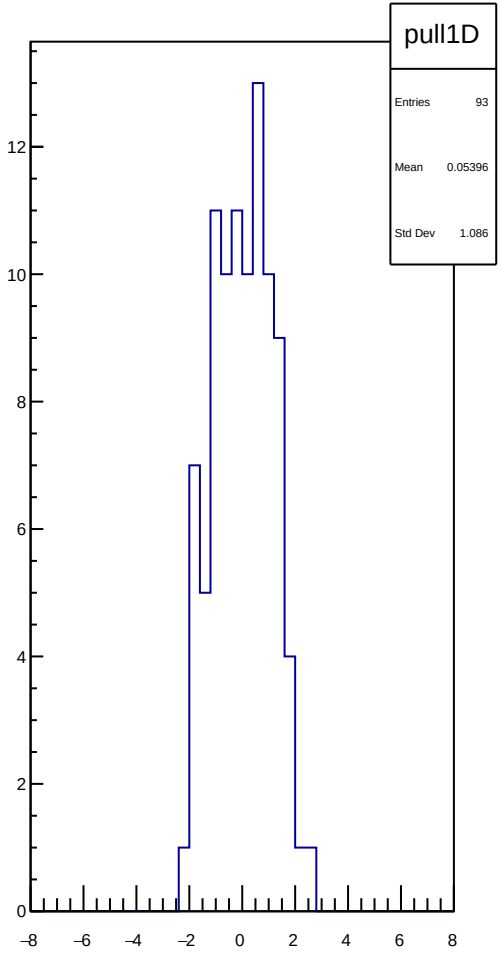

pull1D
Entries 93
Mean 0.01765
Std Dev 1.08

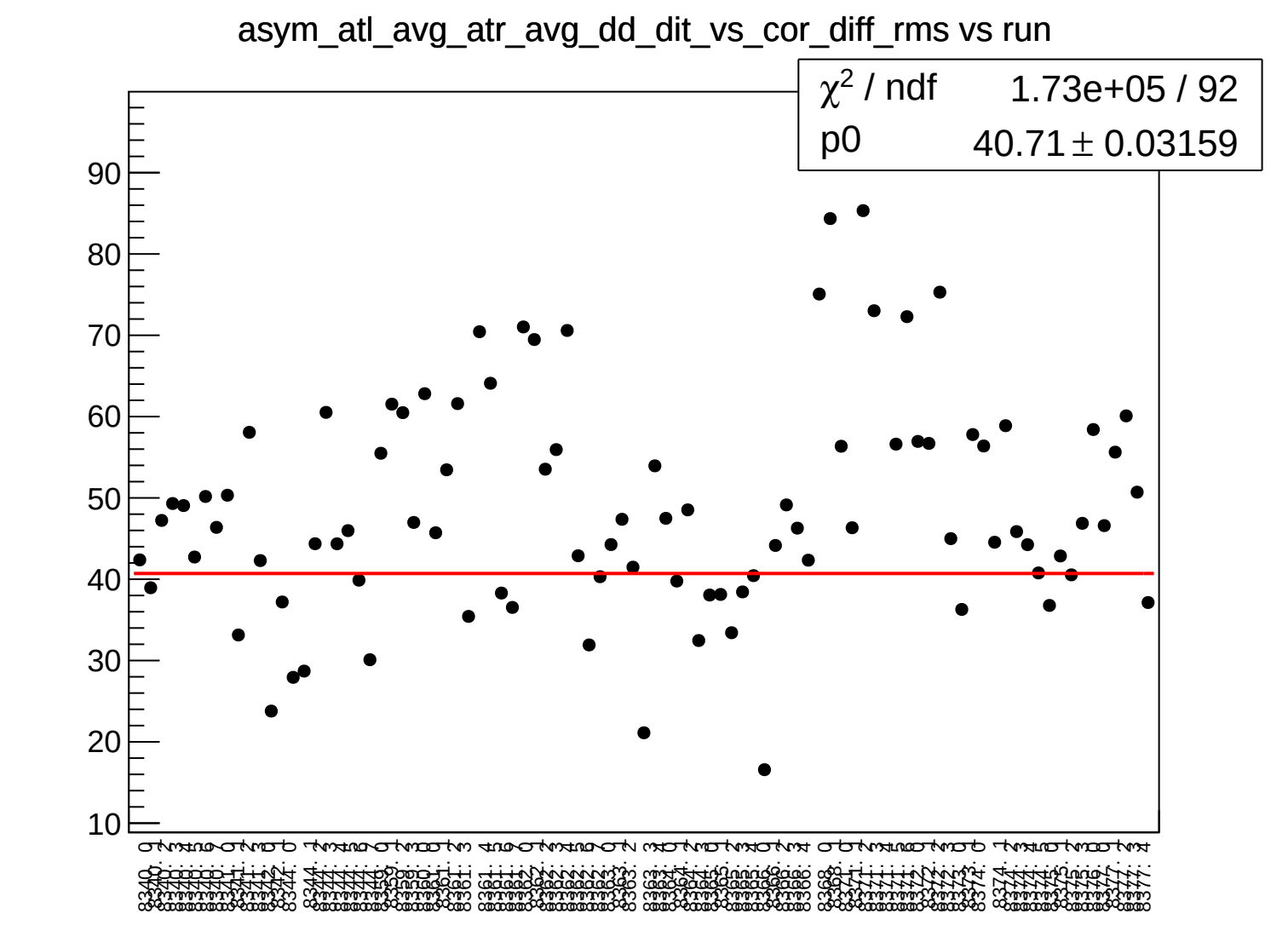

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2177 / 92
p0 1910 ± 1.411
2050
2000
1950
1900
1850
1800

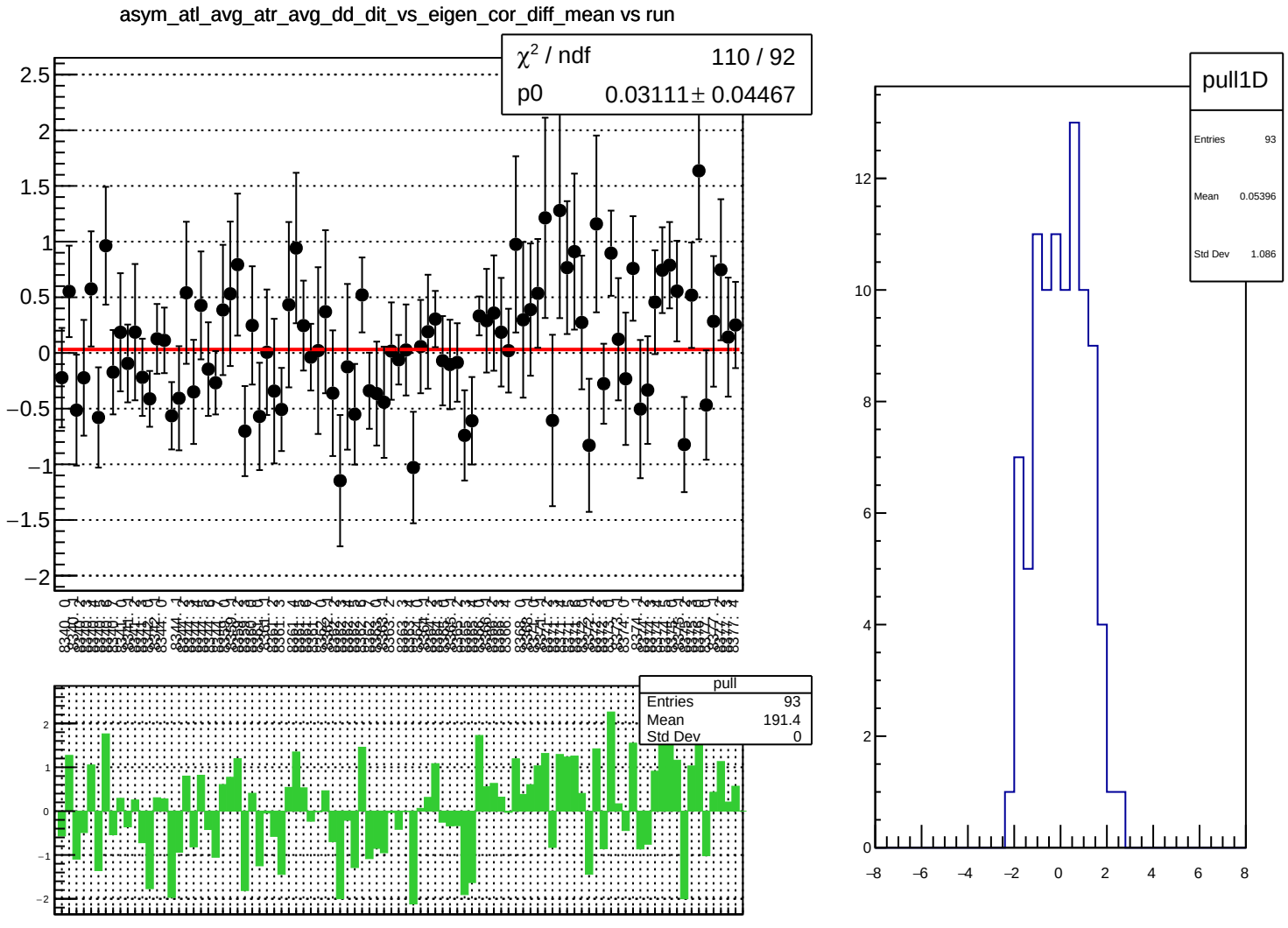

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 92
p0 1.523e−13 ± 1.309e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 64.18
Std Dev 20.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.1304
Std Dev 0.916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

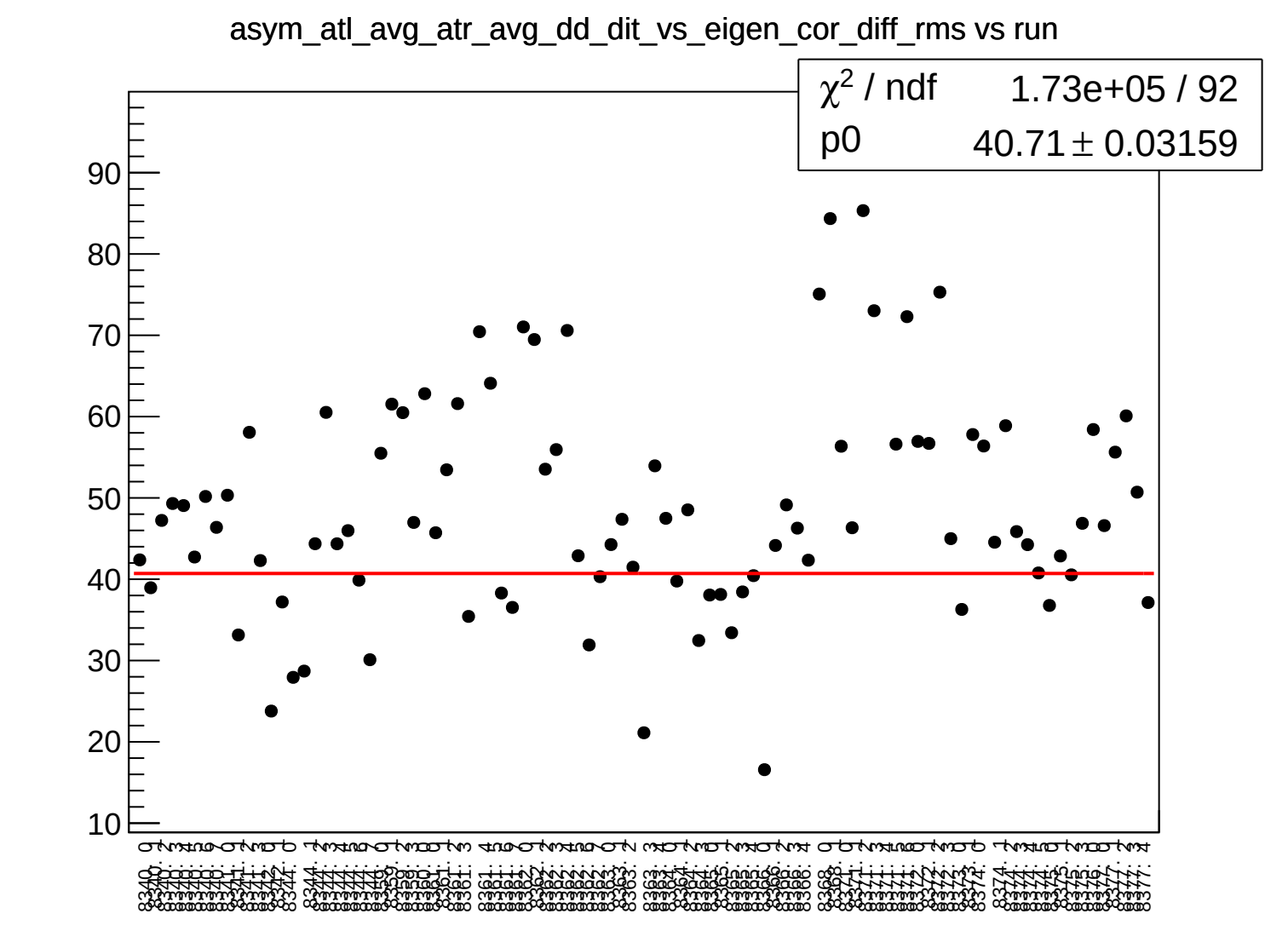

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.19e+06 / 92
p0 7.426e−11 ± 9.254e−14
1
0.8
0.6
0.4
0.2
0

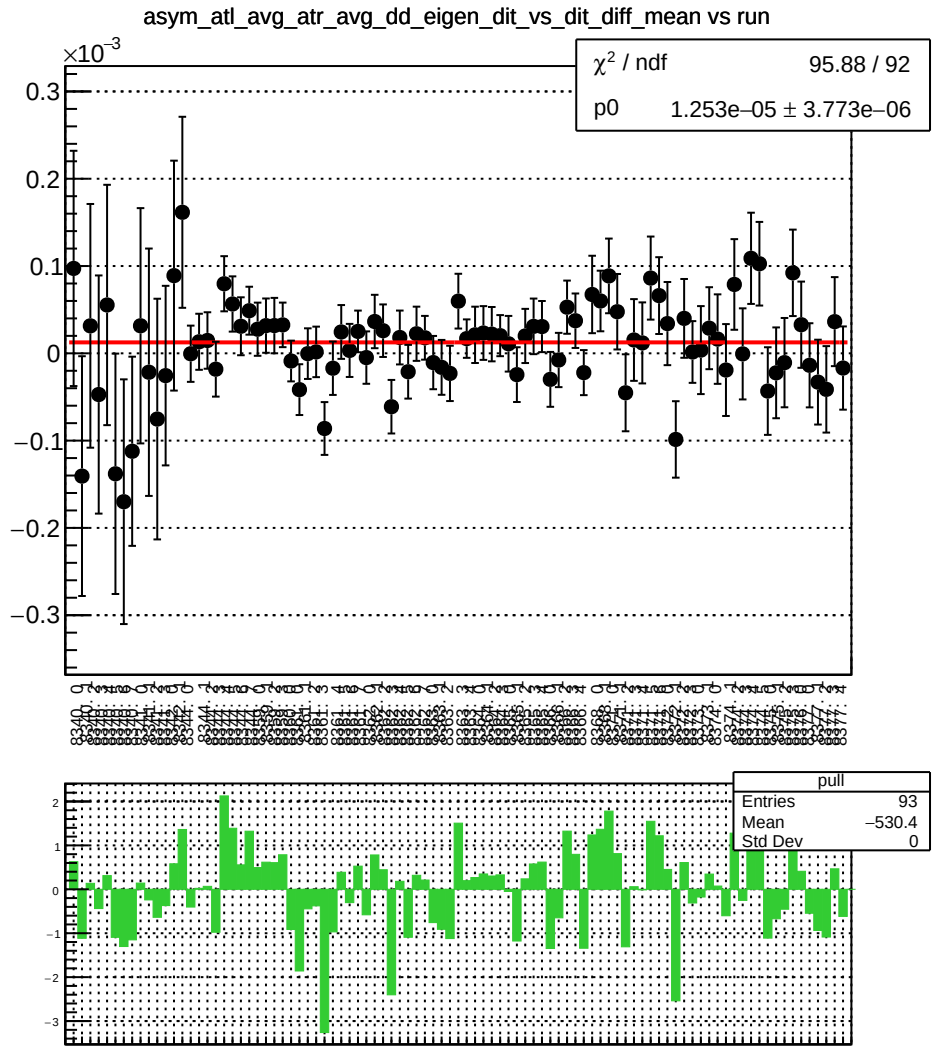

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03111 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0

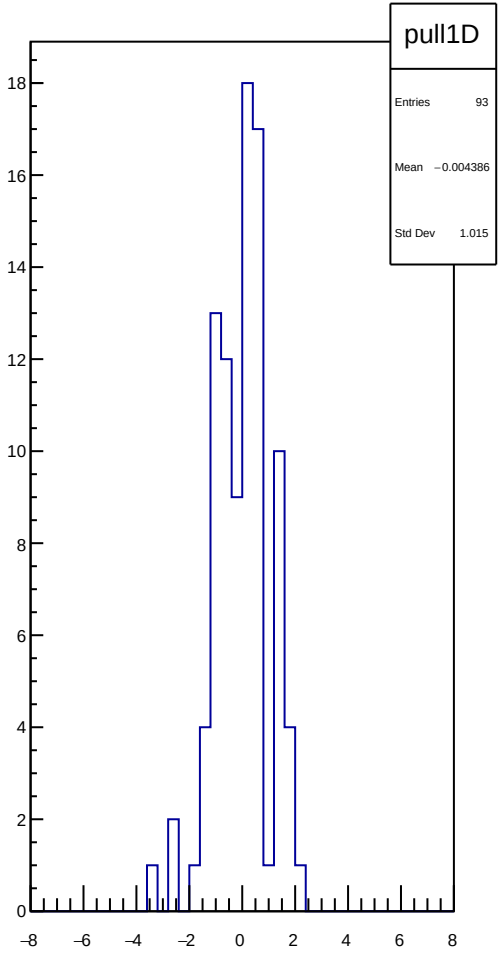

pull1D
Entries 93
Mean 0.05396
Std Dev 1.086

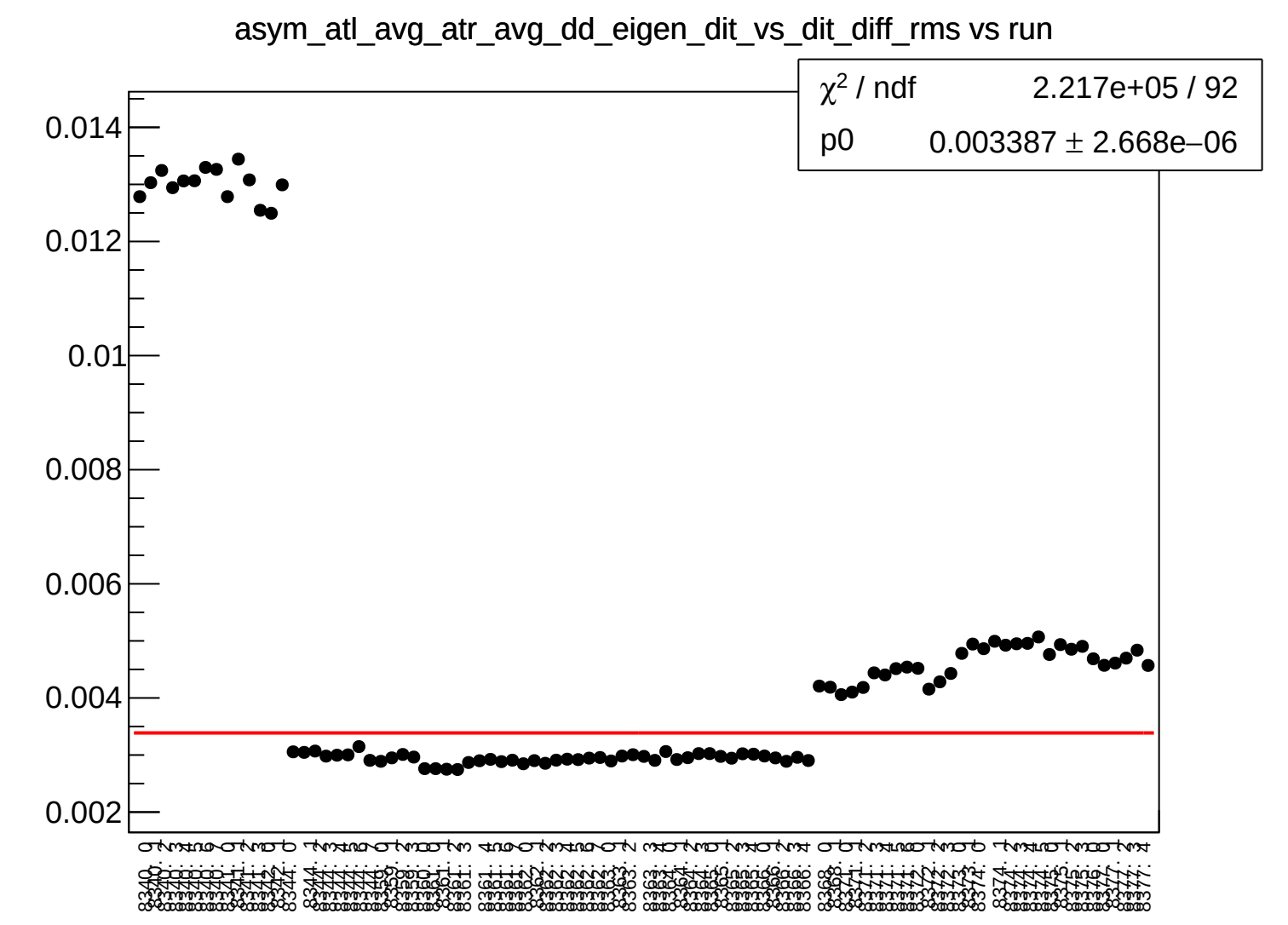

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

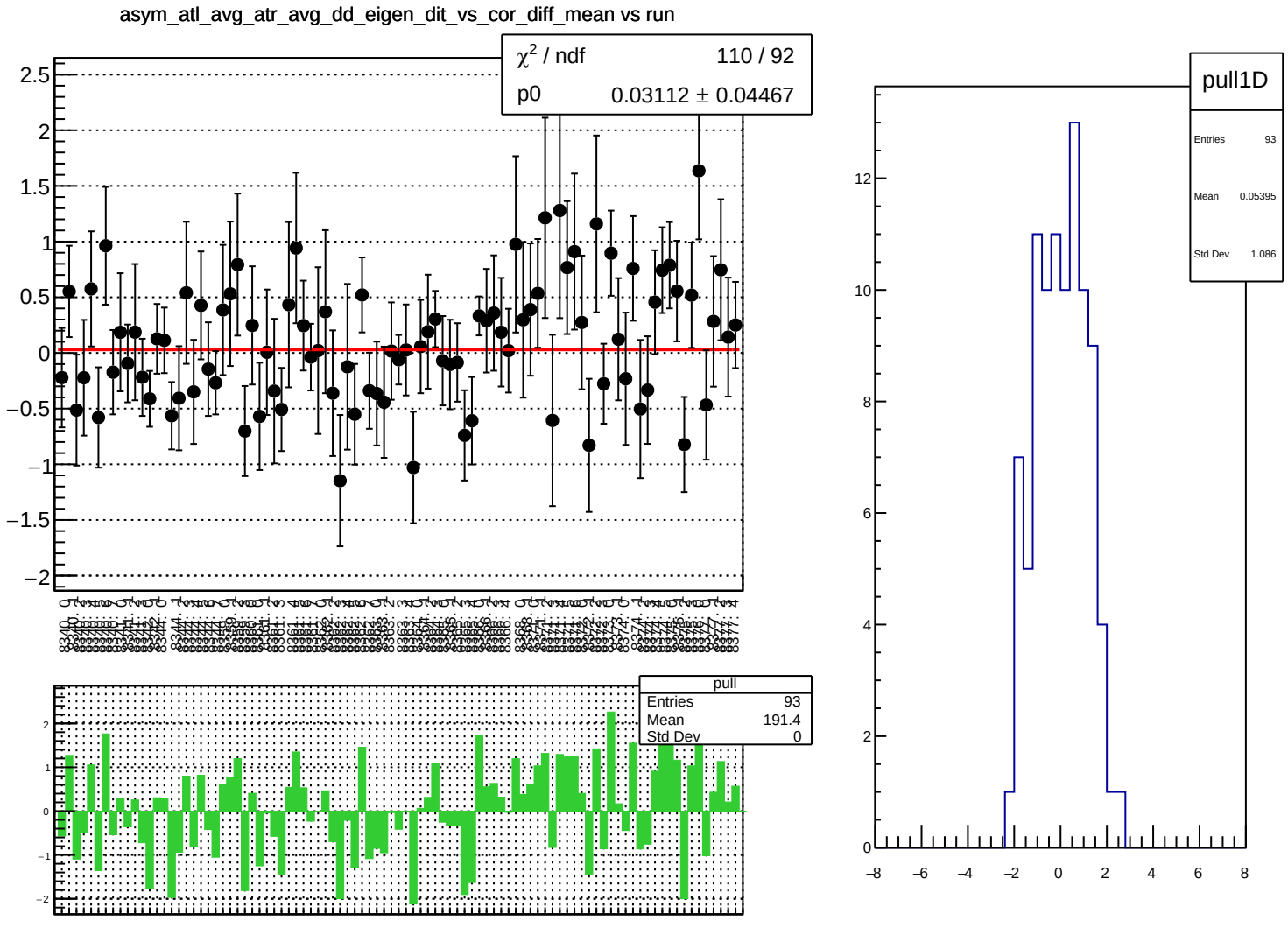

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03111 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0
pull1D
Entries 93
Mean 0.05396
Std Dev 1.086

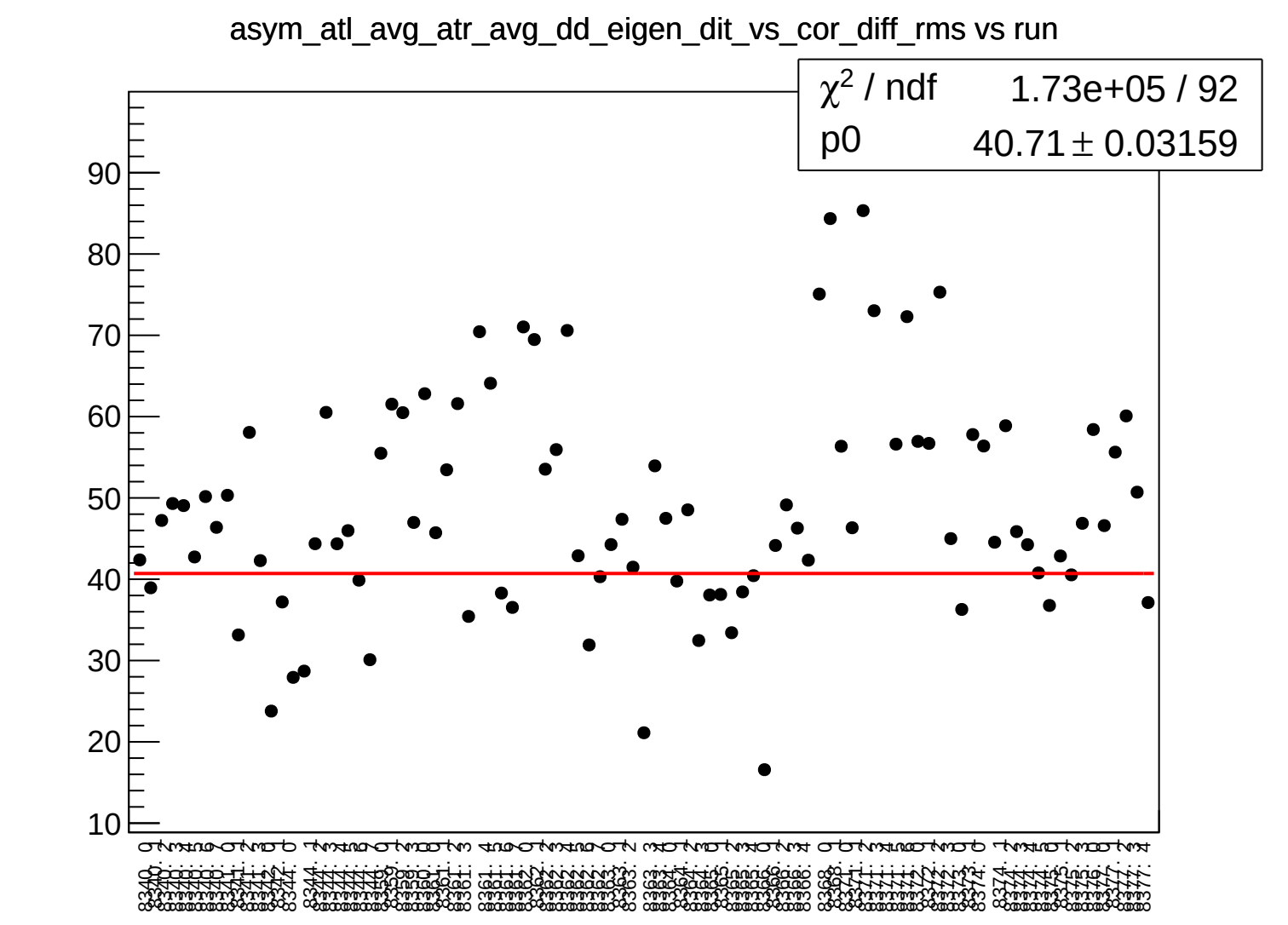

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

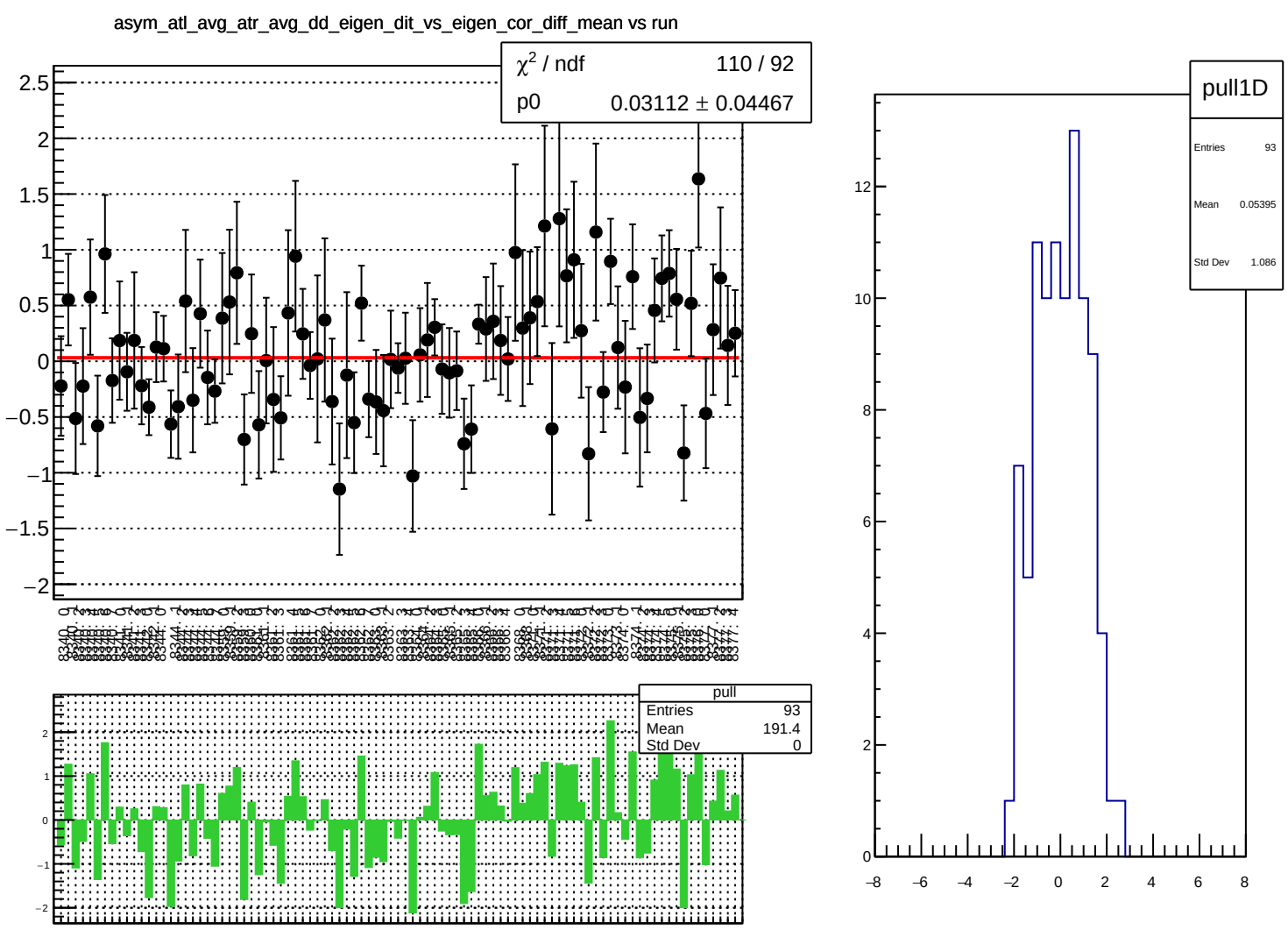

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.88 / 92
p0 1.253e−05 ± 3.773e−06
pull
Entries 93
Mean −530.4
Std Dev 0

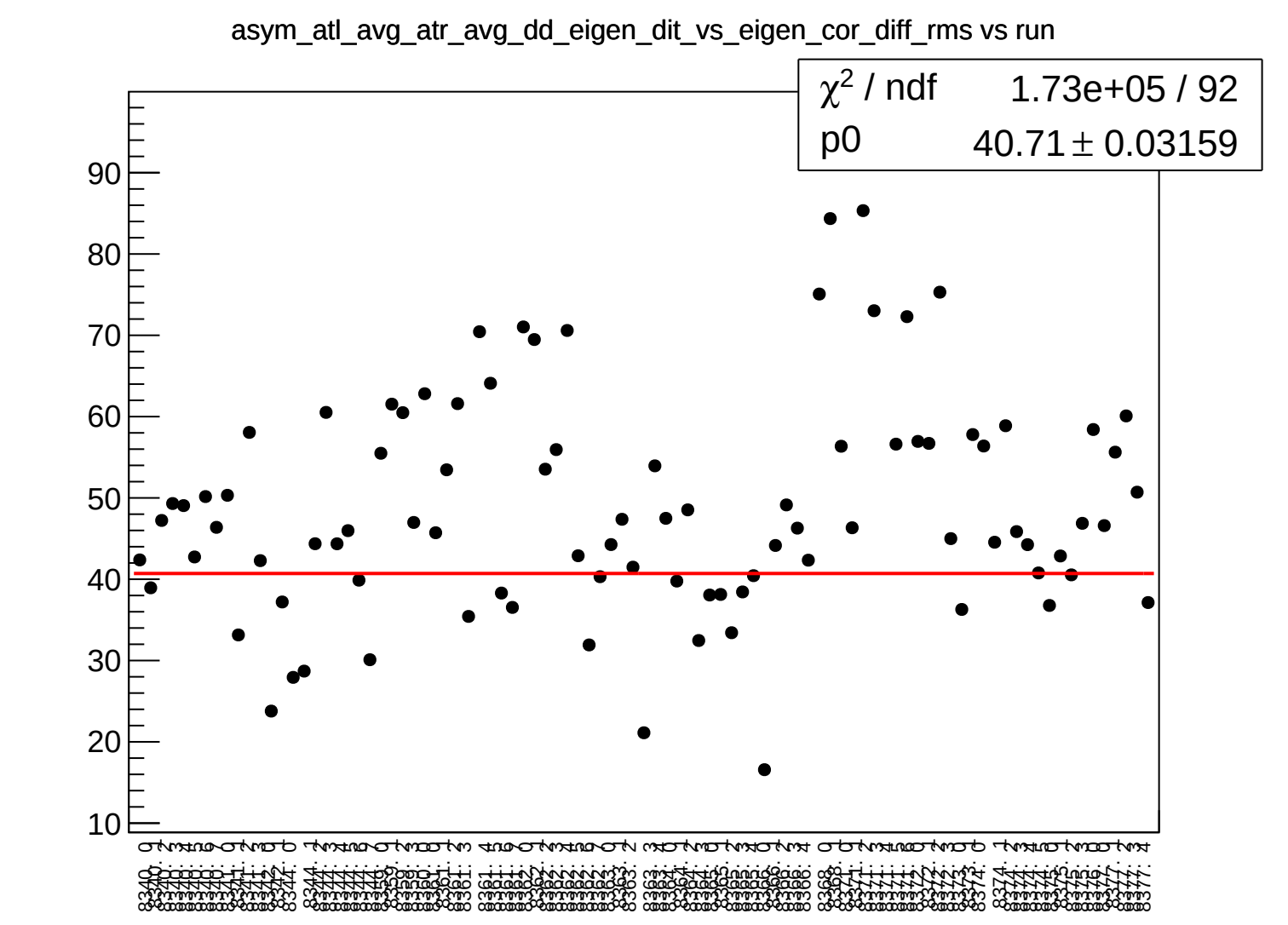

pull1D
Entries 93
Mean −0.004386
Std Dev 1.015

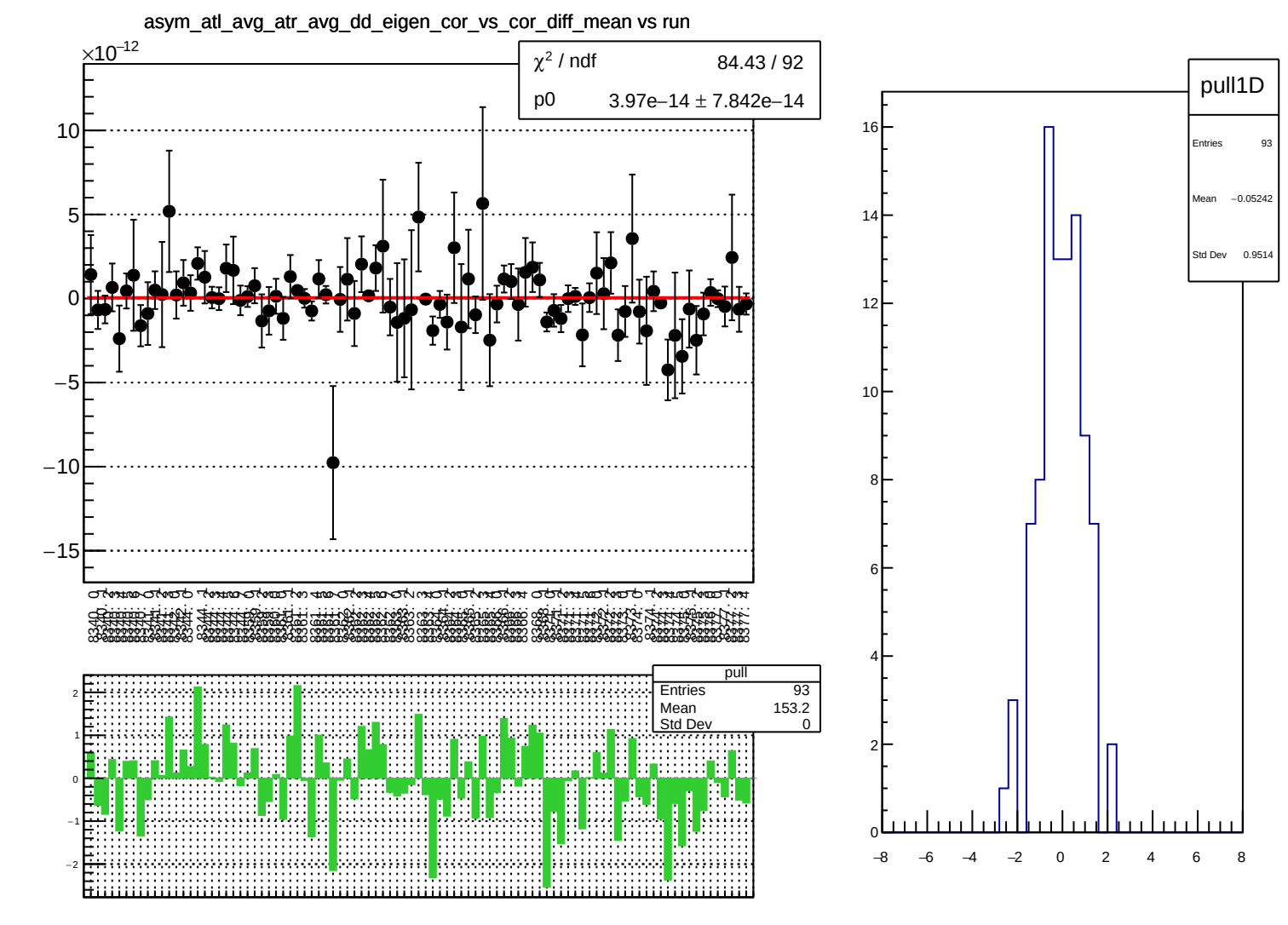

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.217e+05 / 92
p0 0.003387 ± 2.668e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

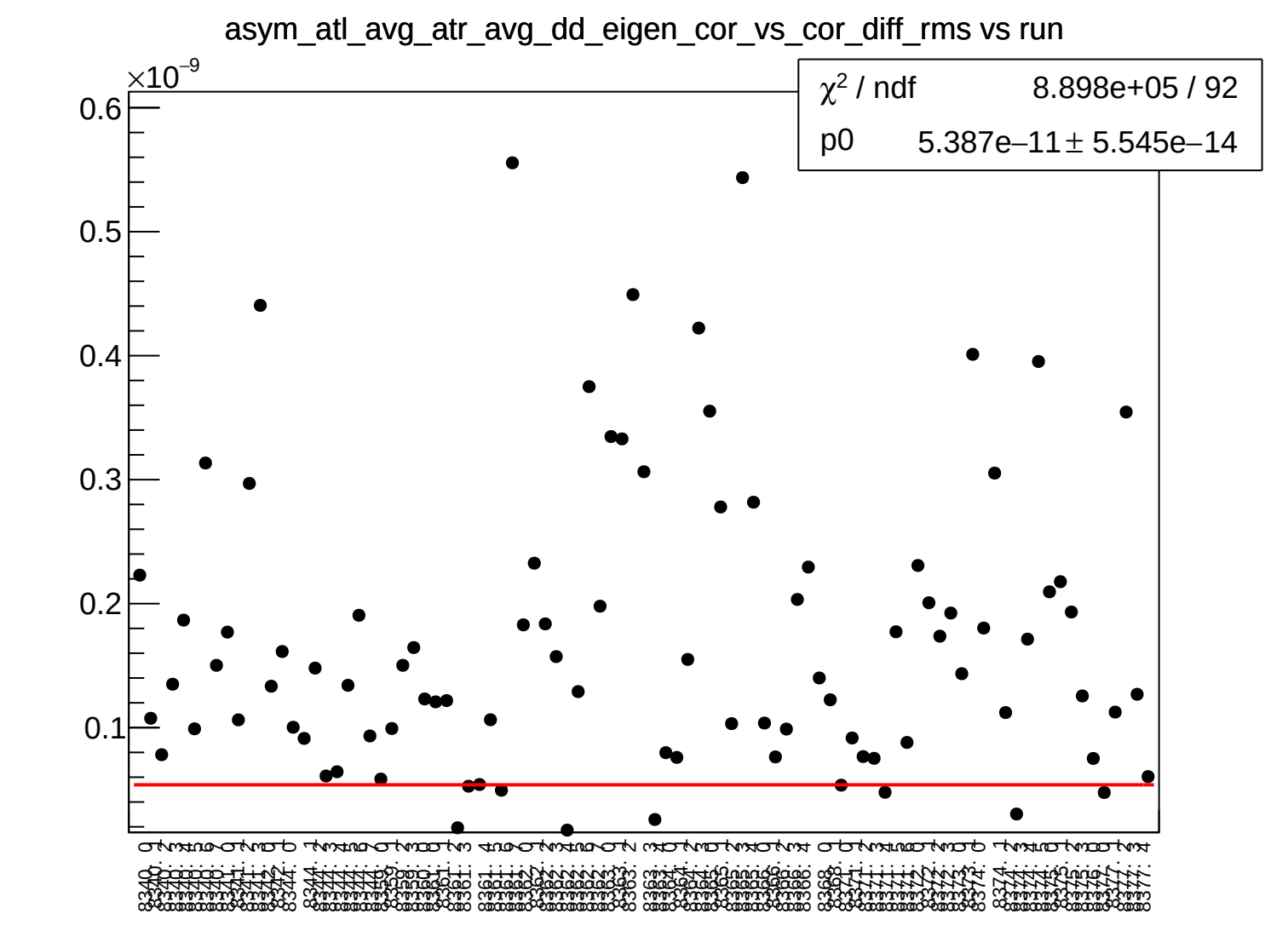

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03112 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0
pull1D
Entries 93
Mean 0.05395
Std Dev 1.086

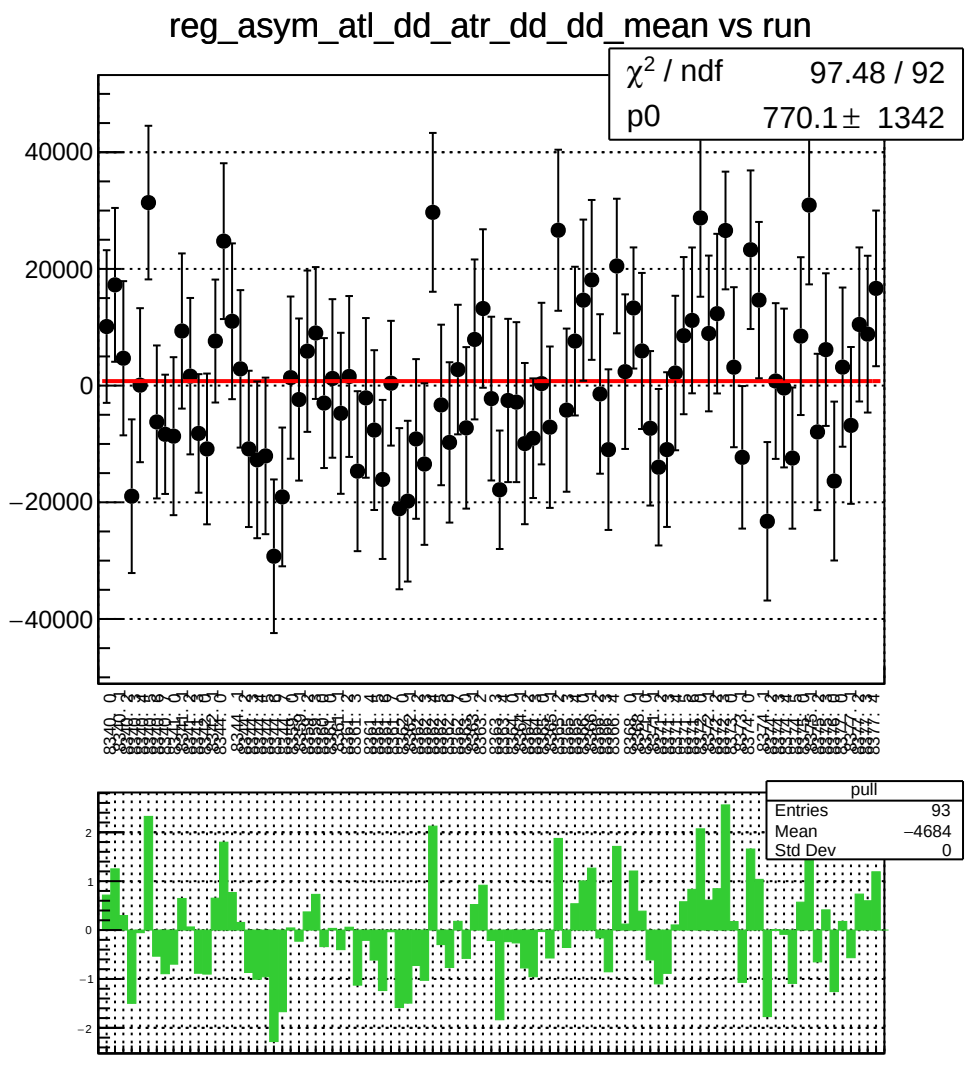

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

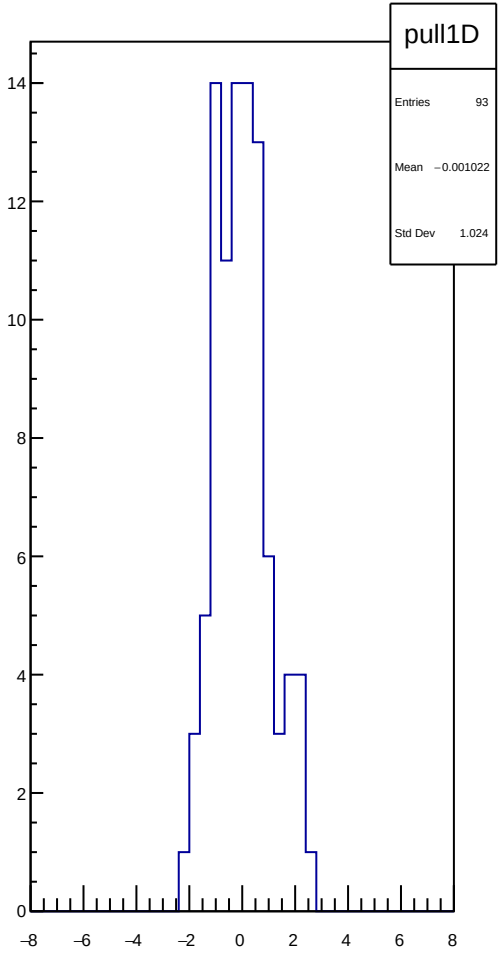

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03112 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0
pull1D
Entries 93
Mean 0.05395
Std Dev 1.086

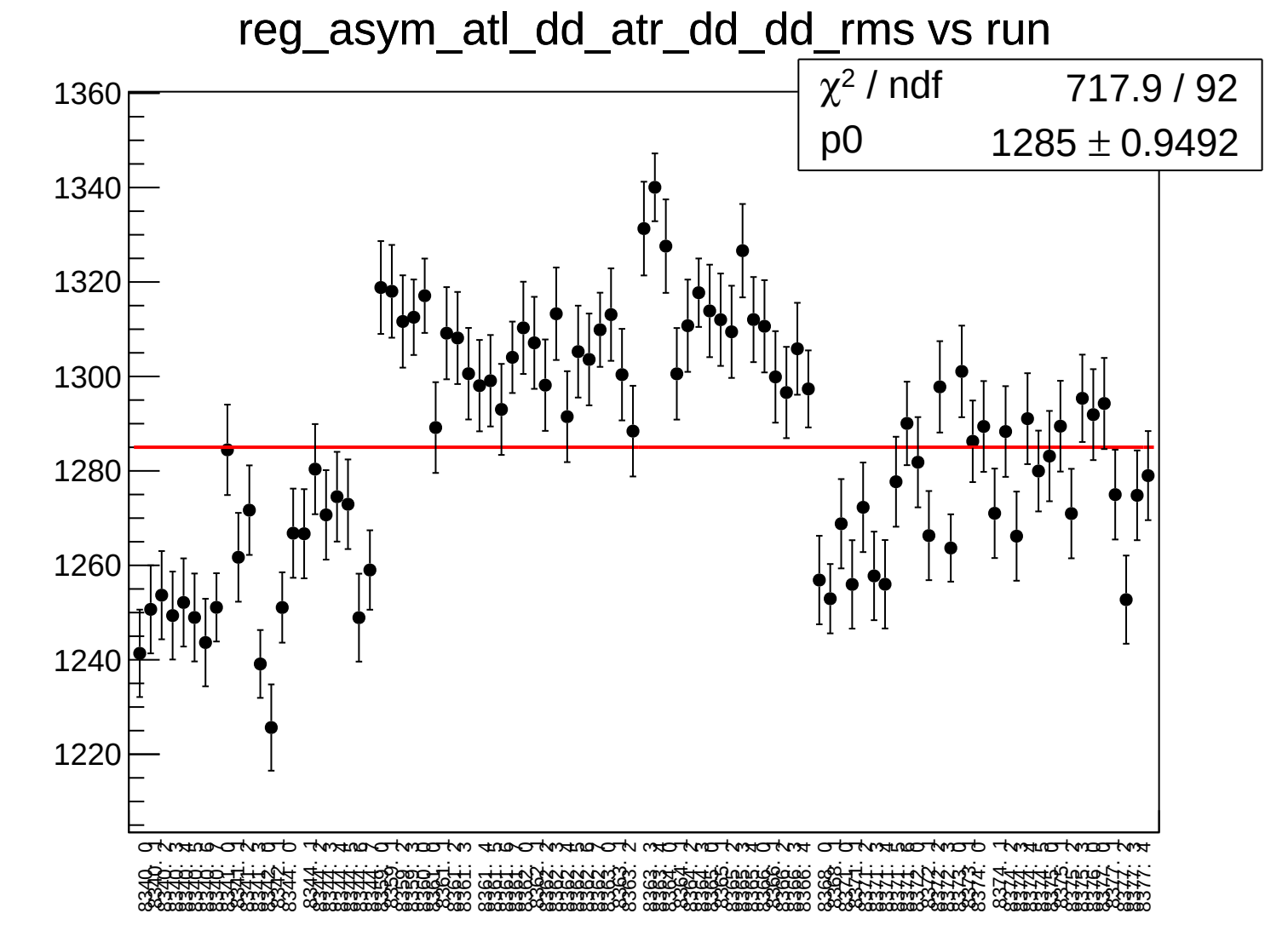

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

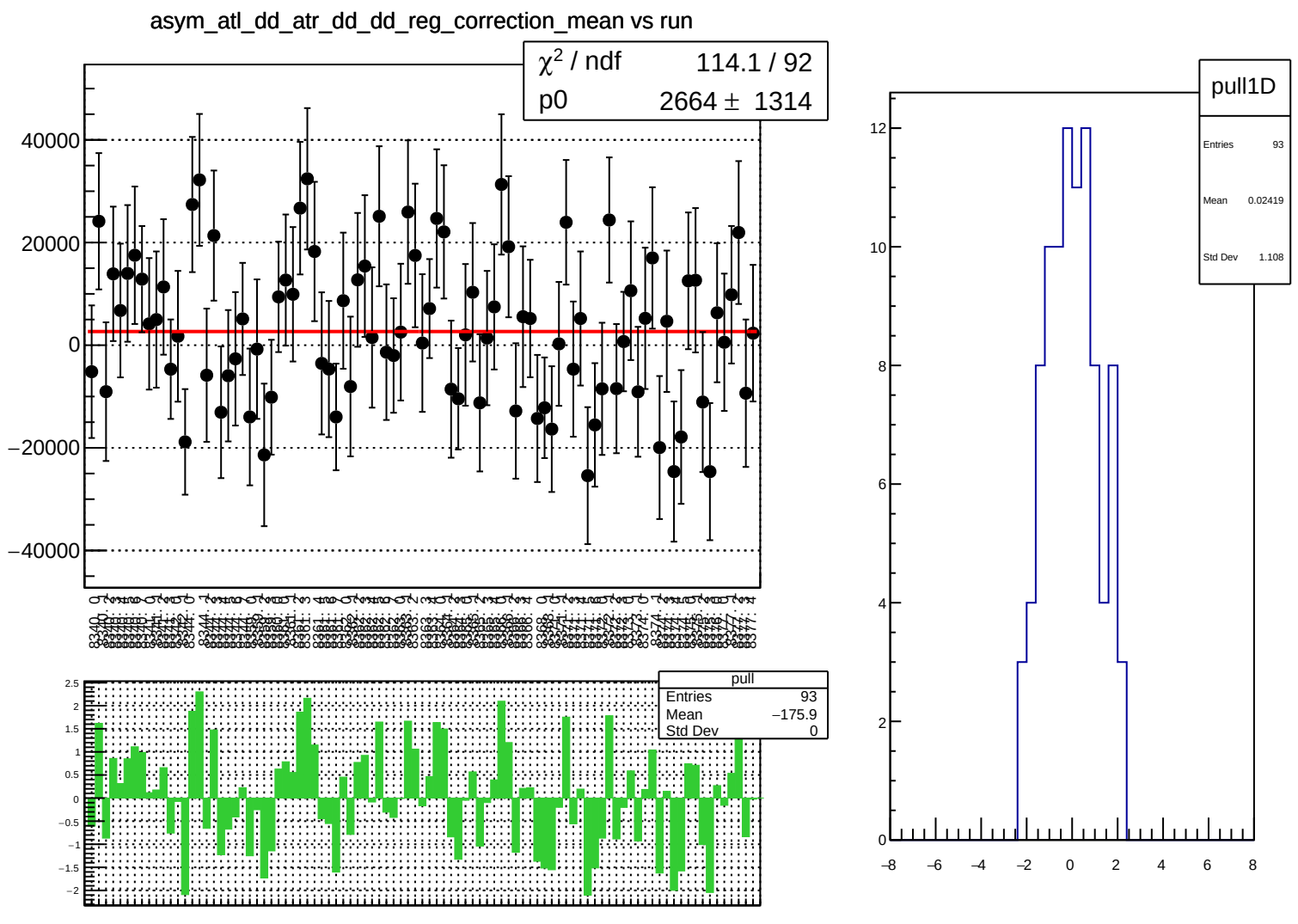

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.43 / 92
p0 3.97e−14 ± 7.842e−14
pull
Entries 93
Mean 153.2
Std Dev 0
pull1D
Entries 93
Mean −0.05242
Std Dev 0.9514

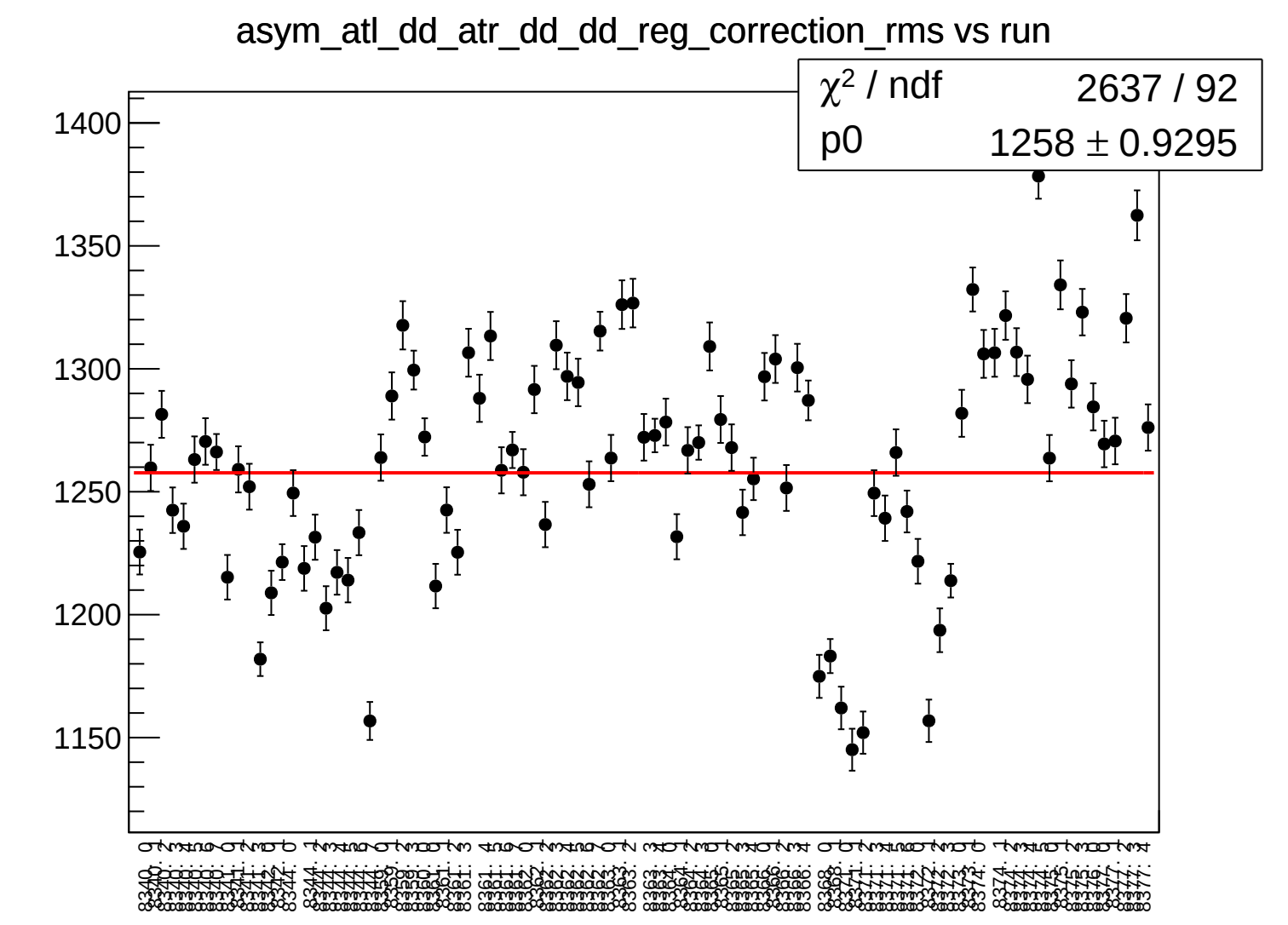

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.898e+05 / 92
p0 5.387e−11 ± 5.545e−14
0.6
0.5
0.4
0.3
0.2
0.1

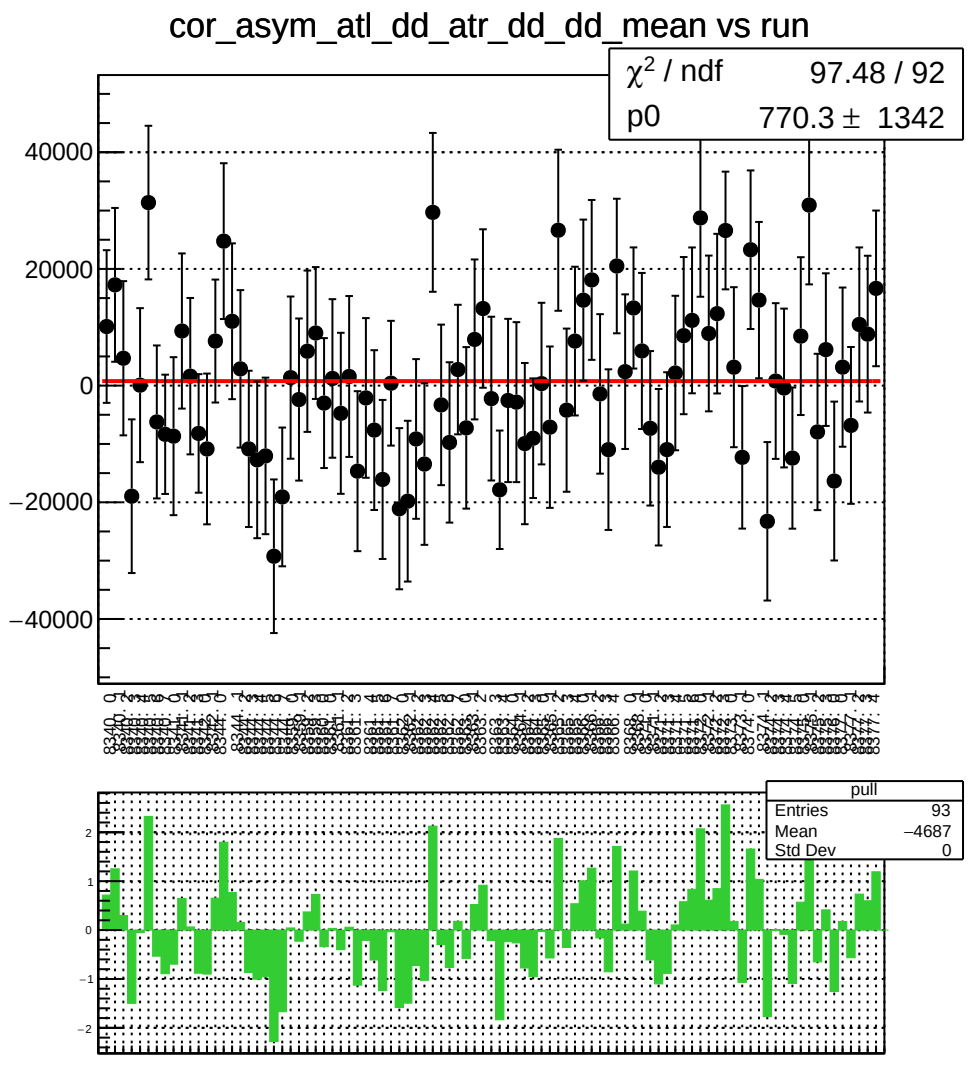

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.48 / 92
p0 770.1 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4684
Std Dev 0
2
1
0
−1
−2

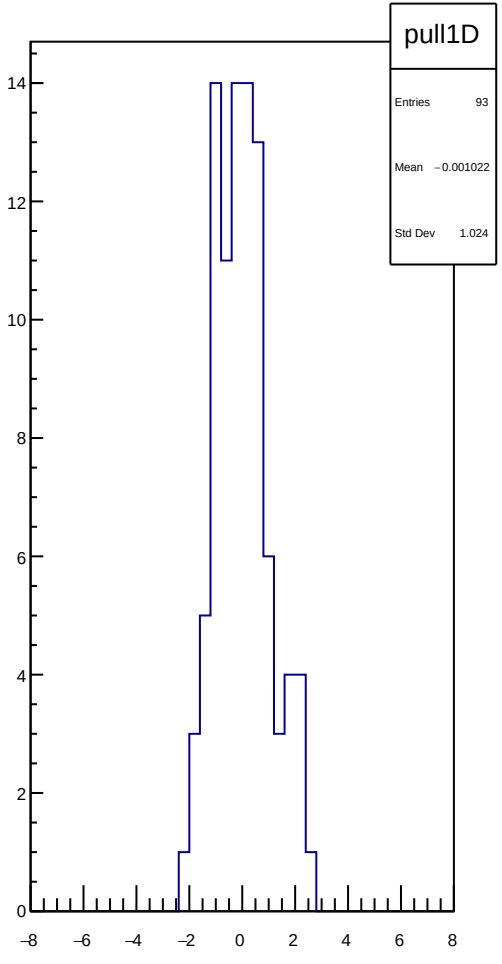

pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

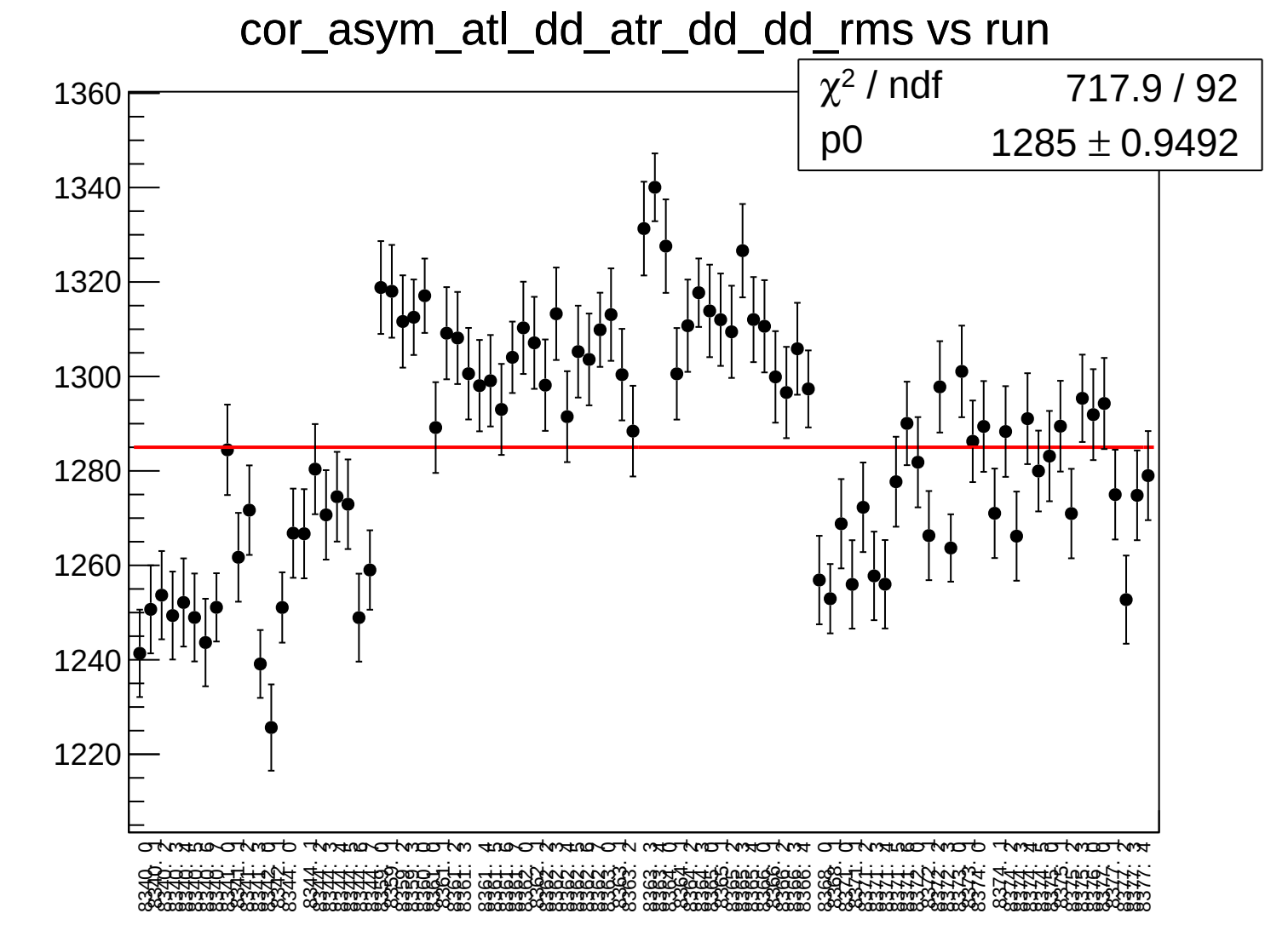

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220

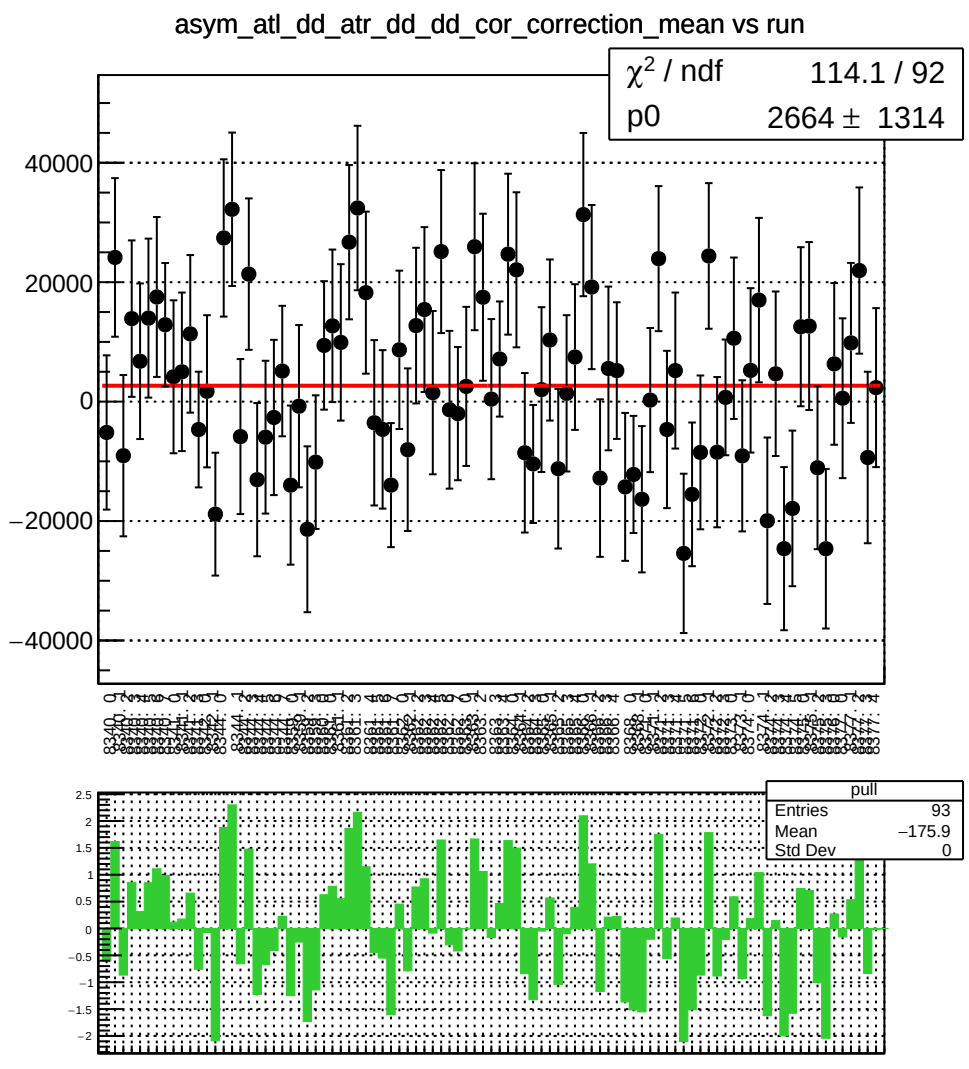

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.02419
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

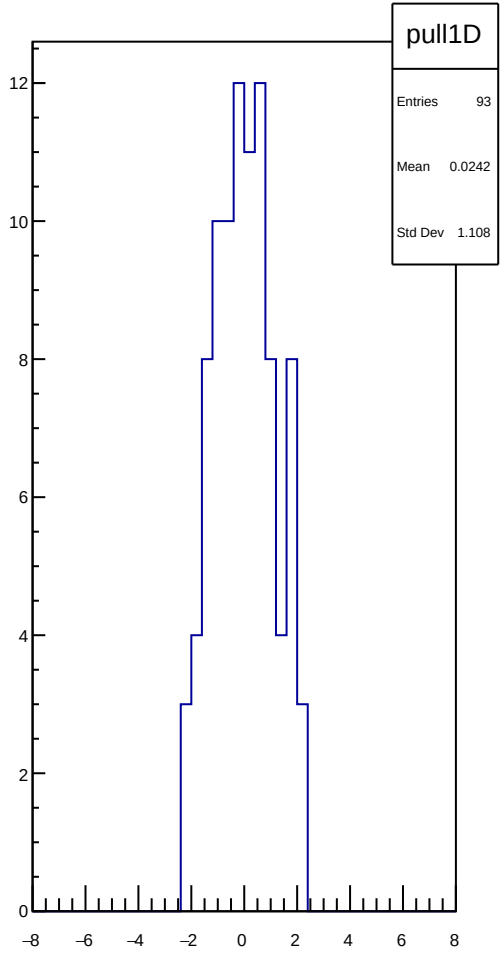

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 2637 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150

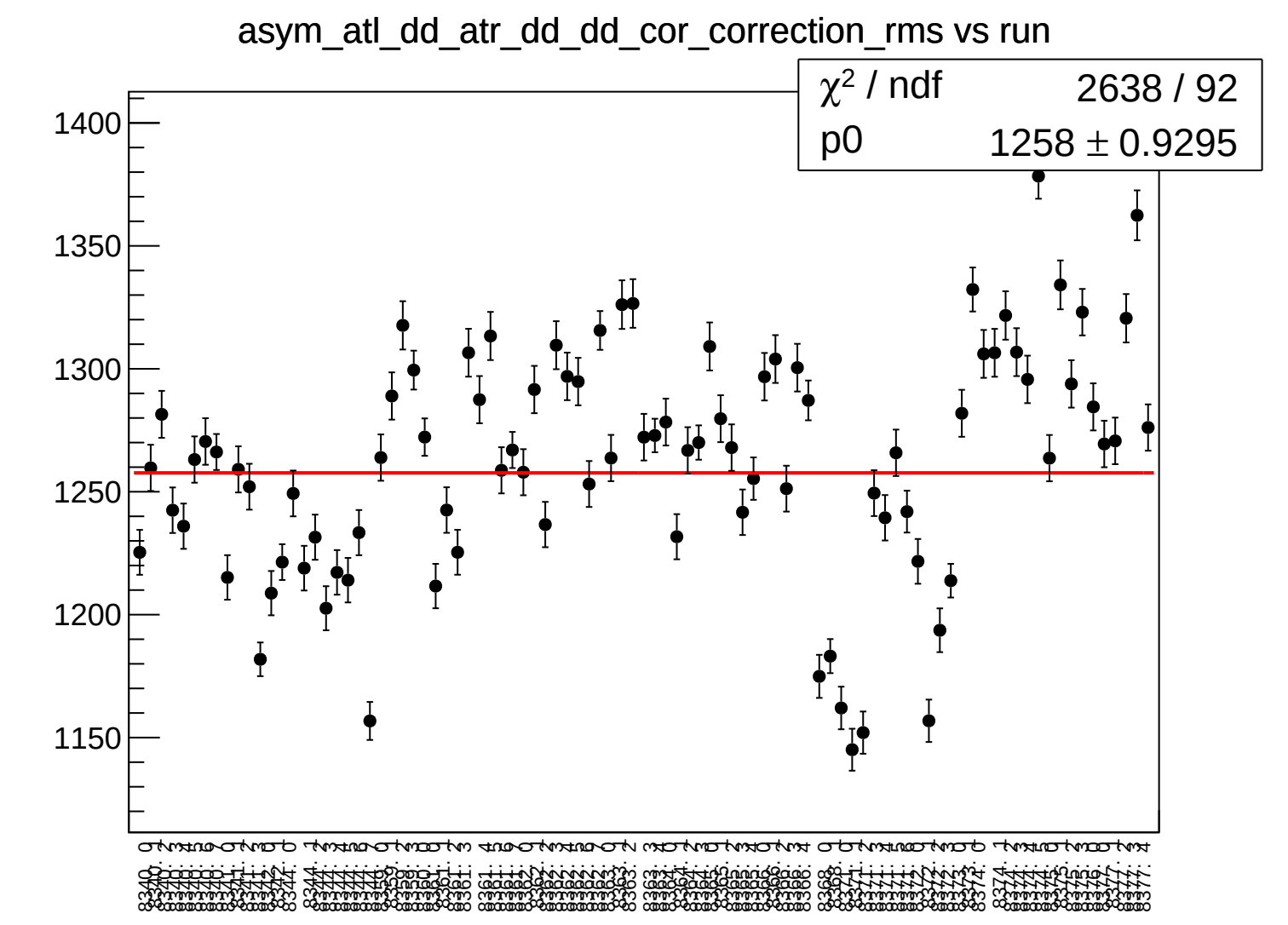

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.48 / 92
p0 770.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4687
Std Dev 0
2
1
0
−1
−2

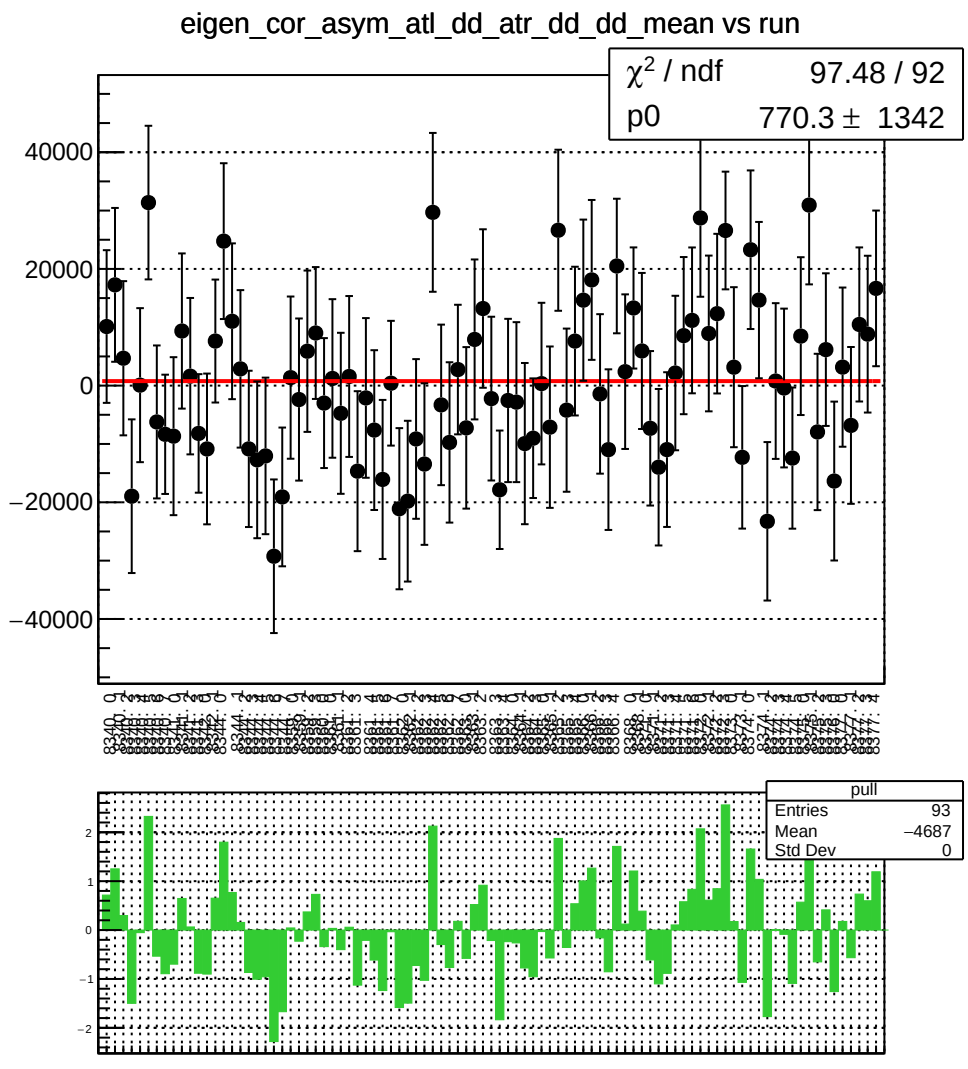

pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

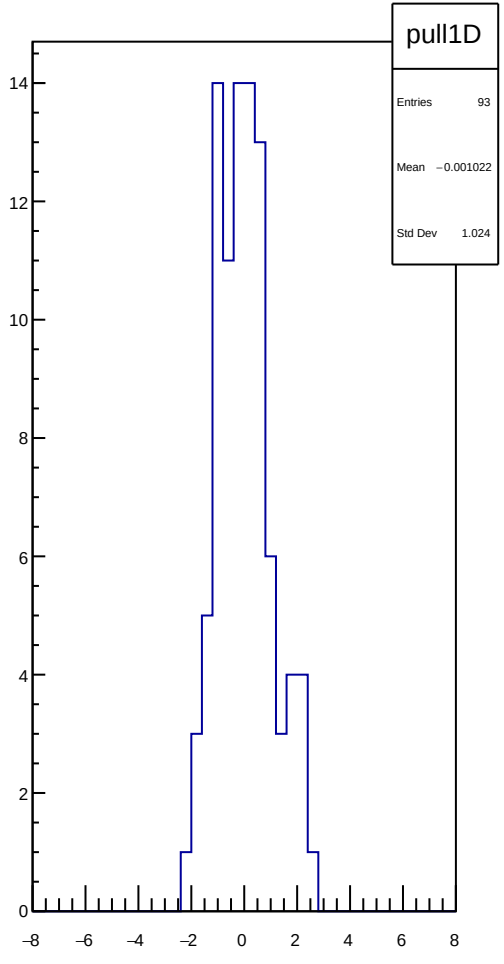

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220

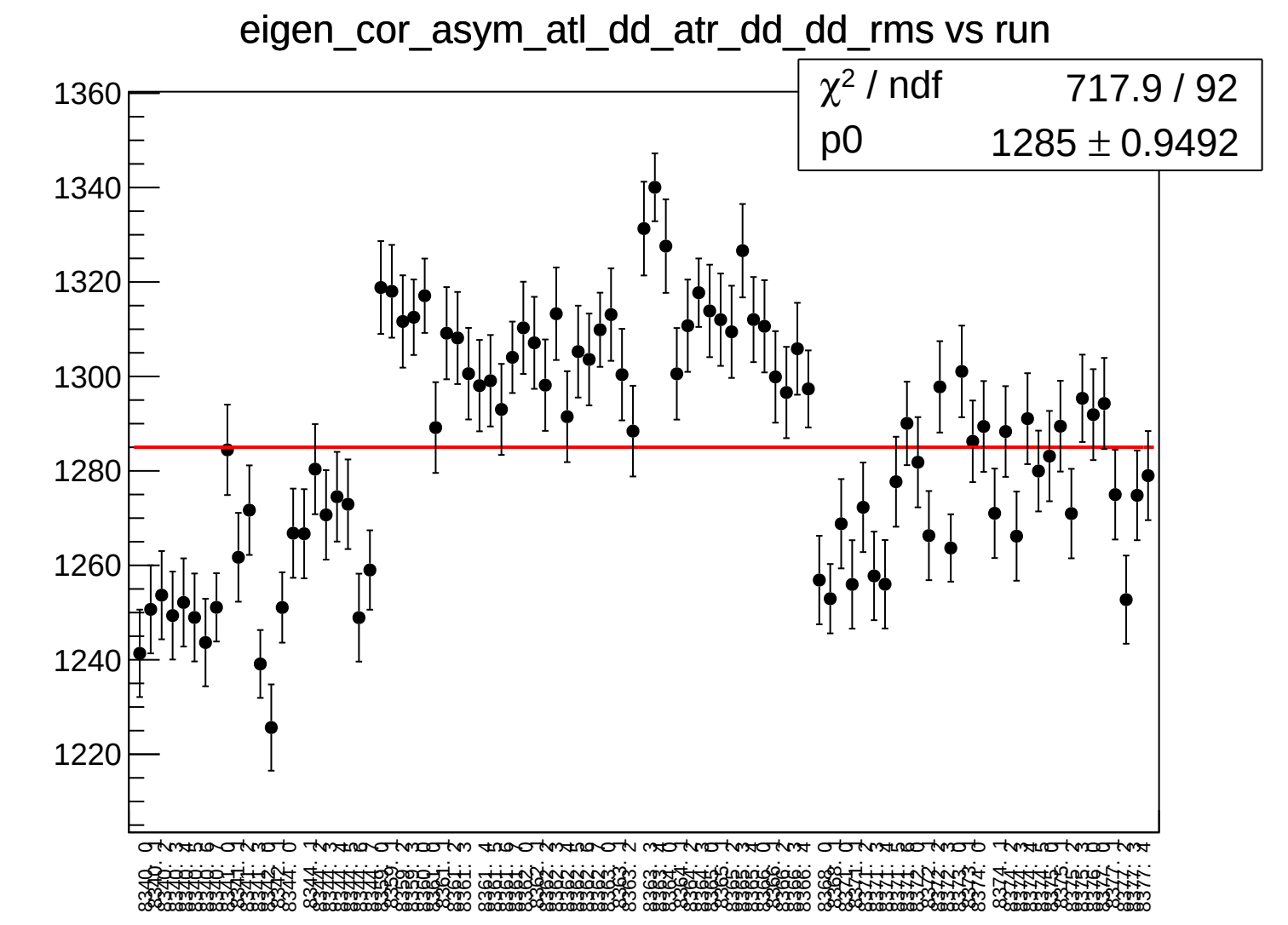

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

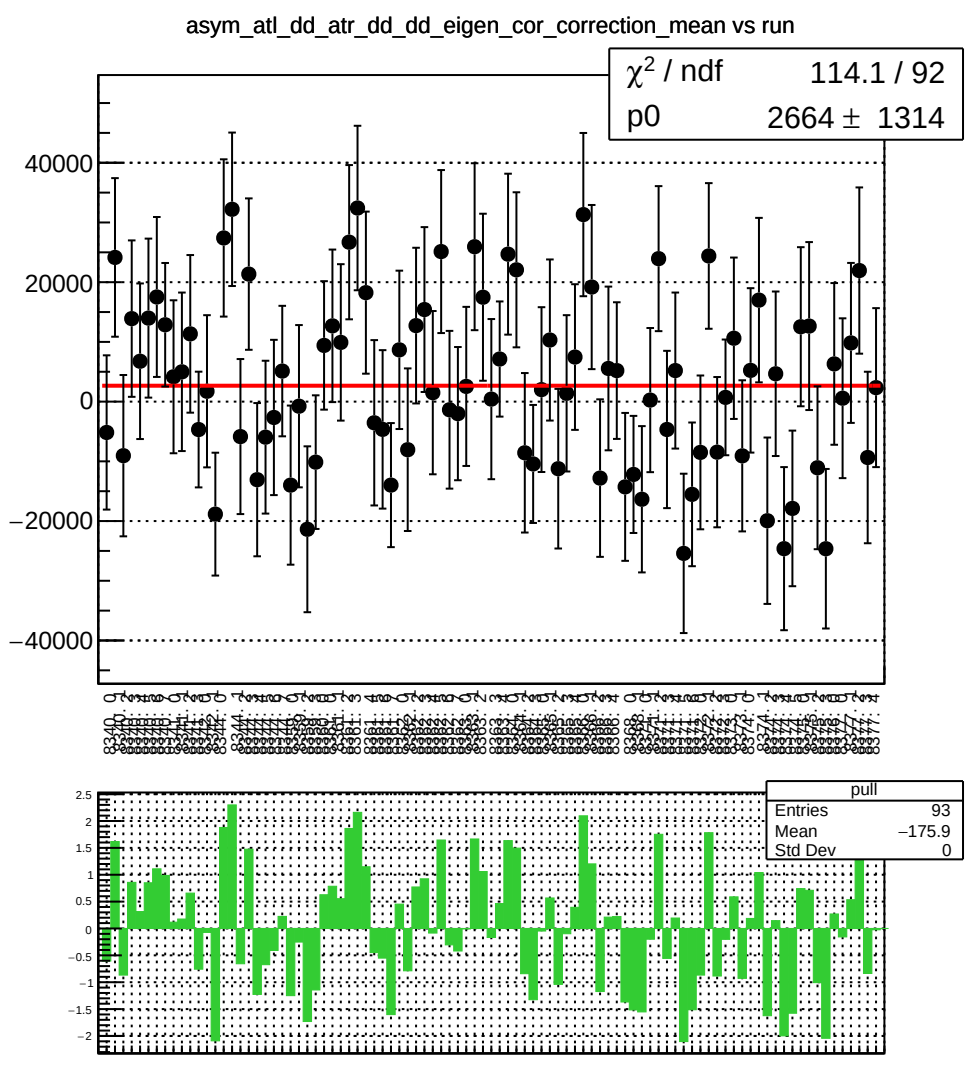

pull1D
Entries 93
Mean 0.0242
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

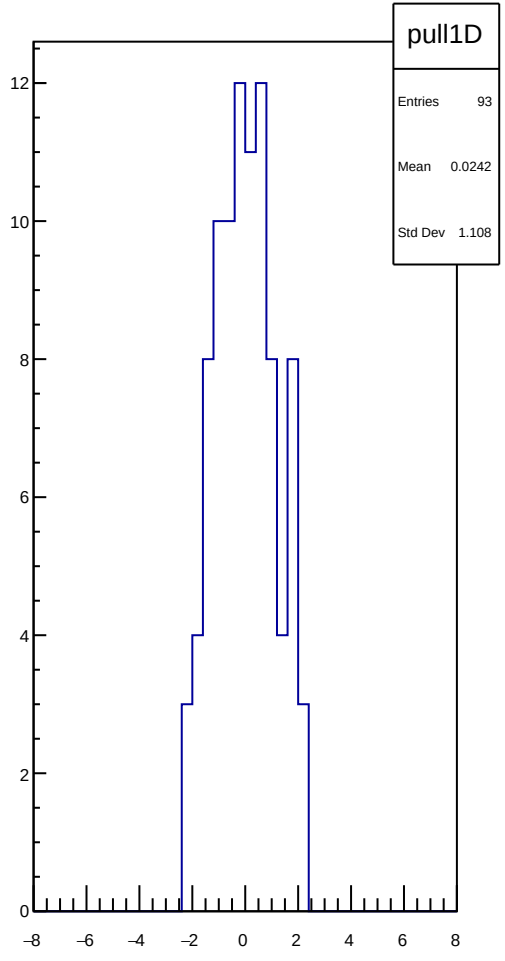

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 2638 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150

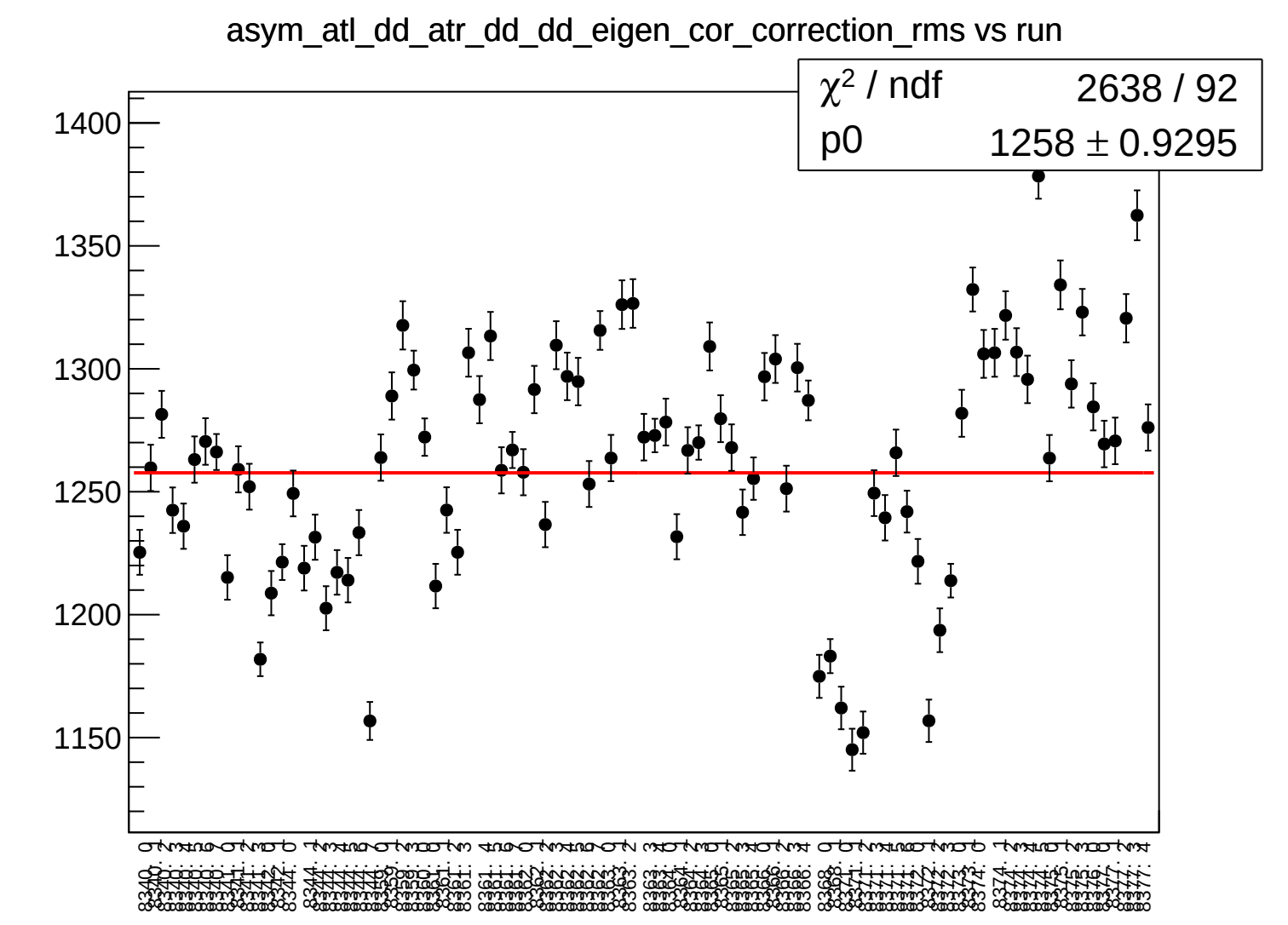

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.48 / 92
p0 770.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4687
Std Dev 0
2
1
0
−1
−2

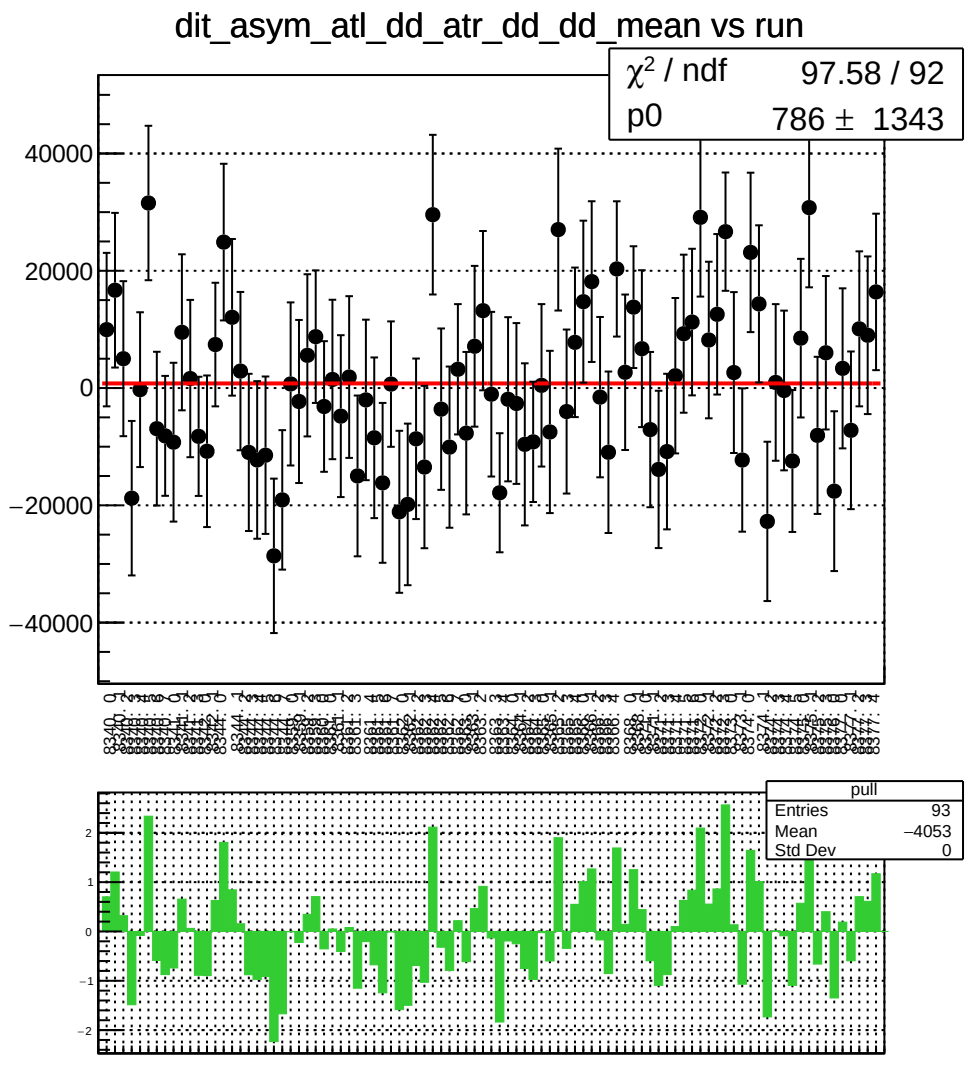

pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

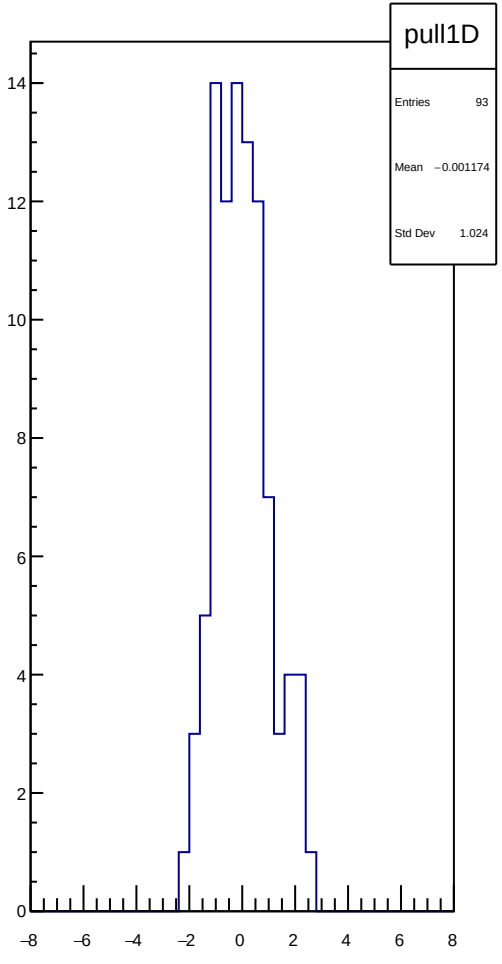

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220

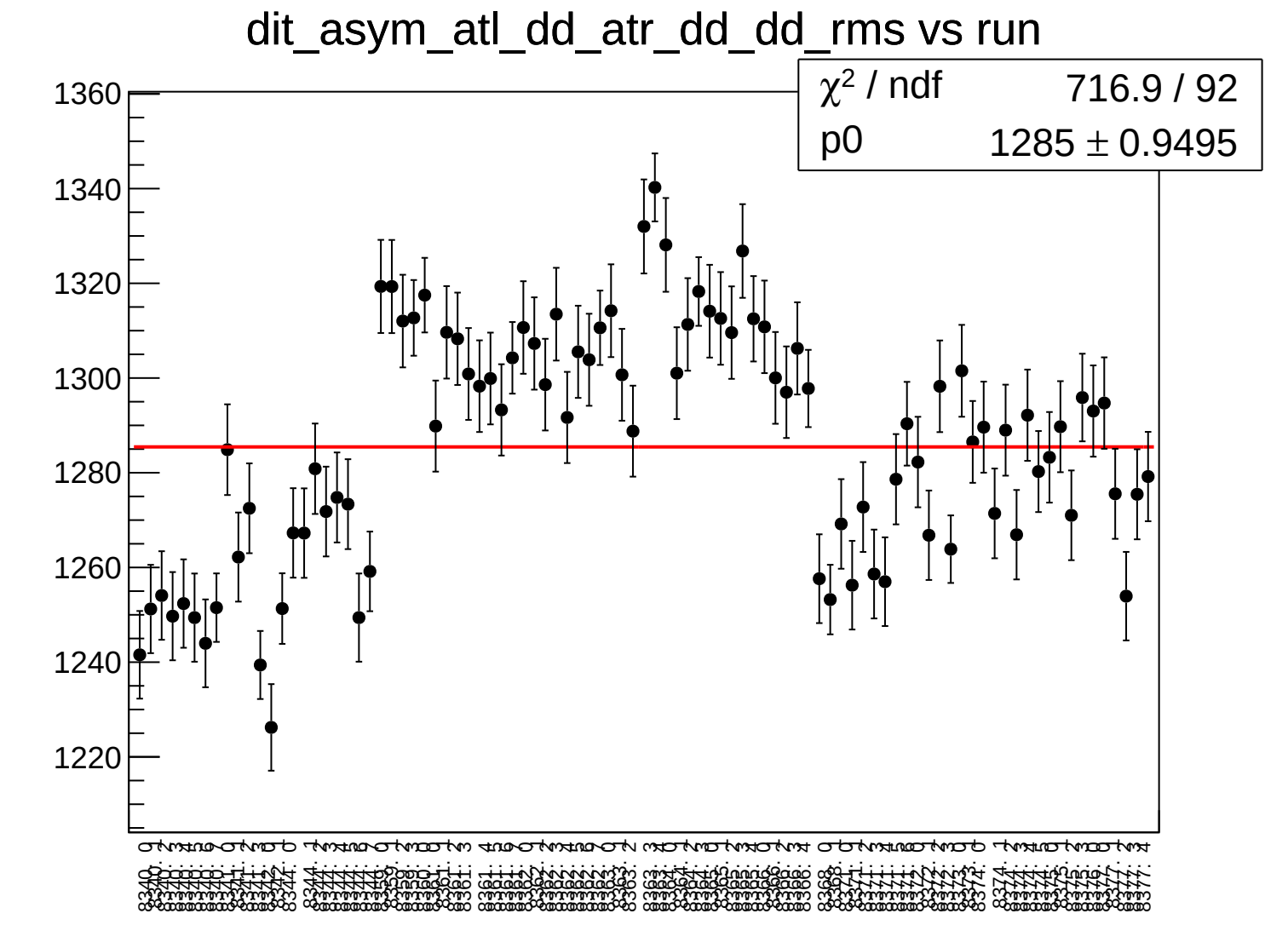

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

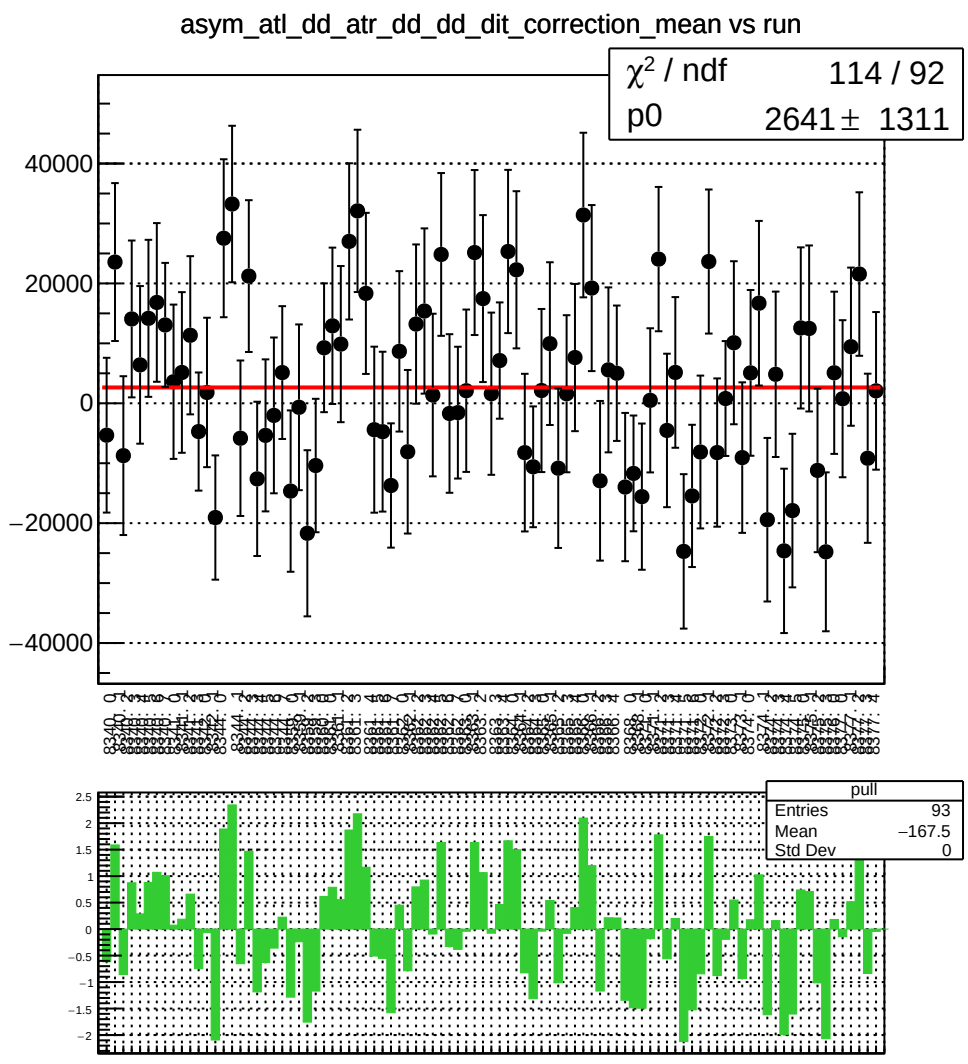

pull1D
Entries 93
Mean 0.0242
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

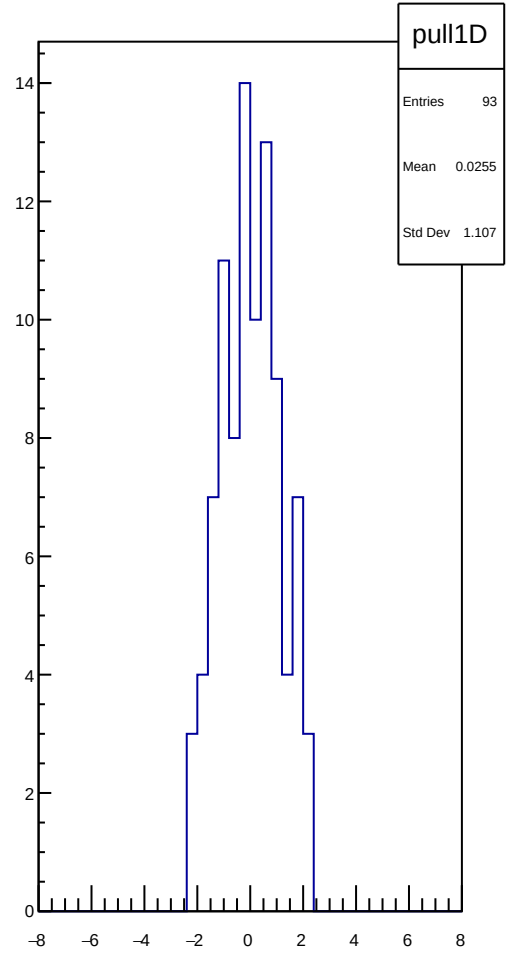

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2638 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150

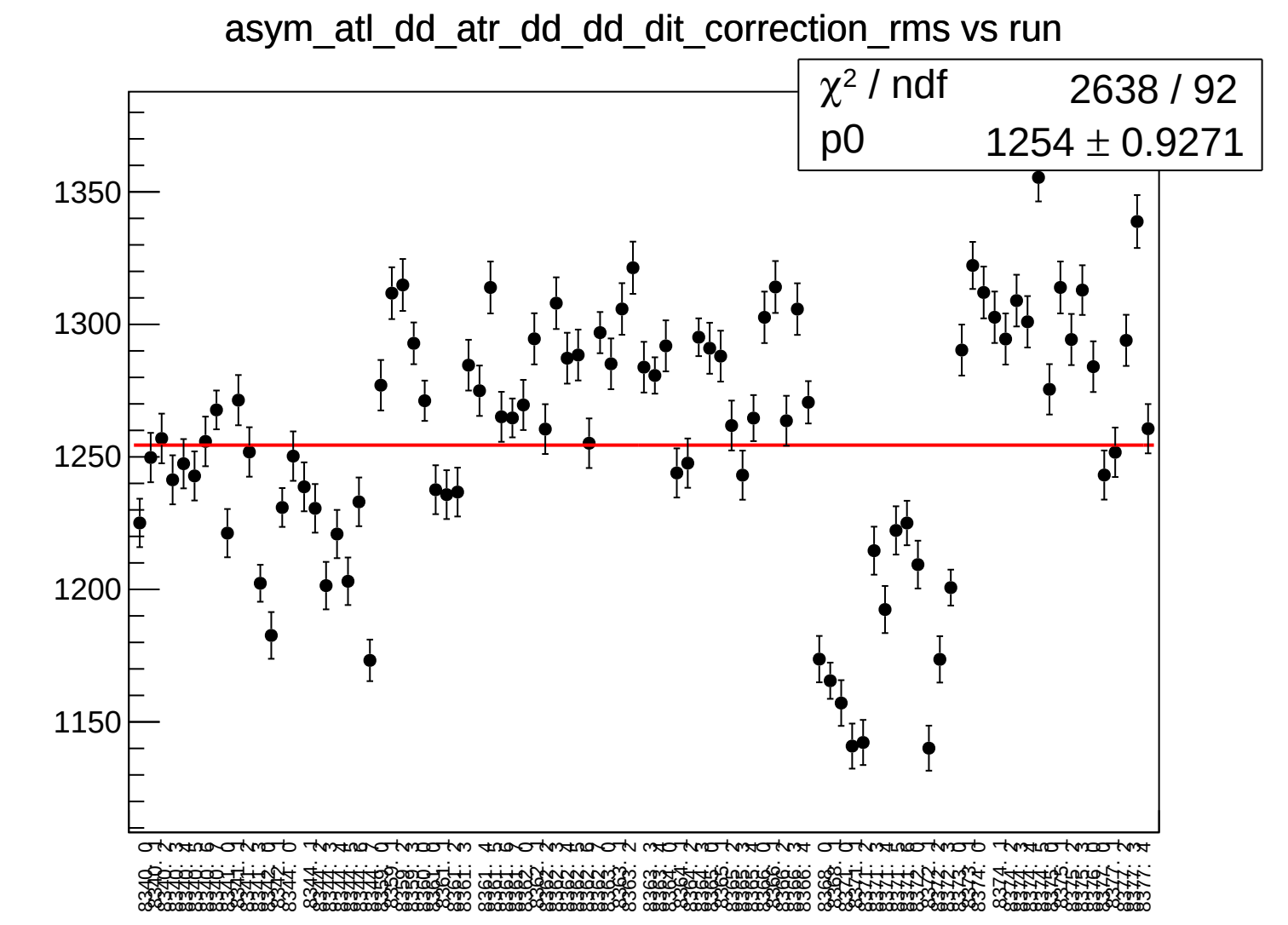

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.58 / 92
p0 786 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4053
Std Dev 0
2
1
0
−1
−2

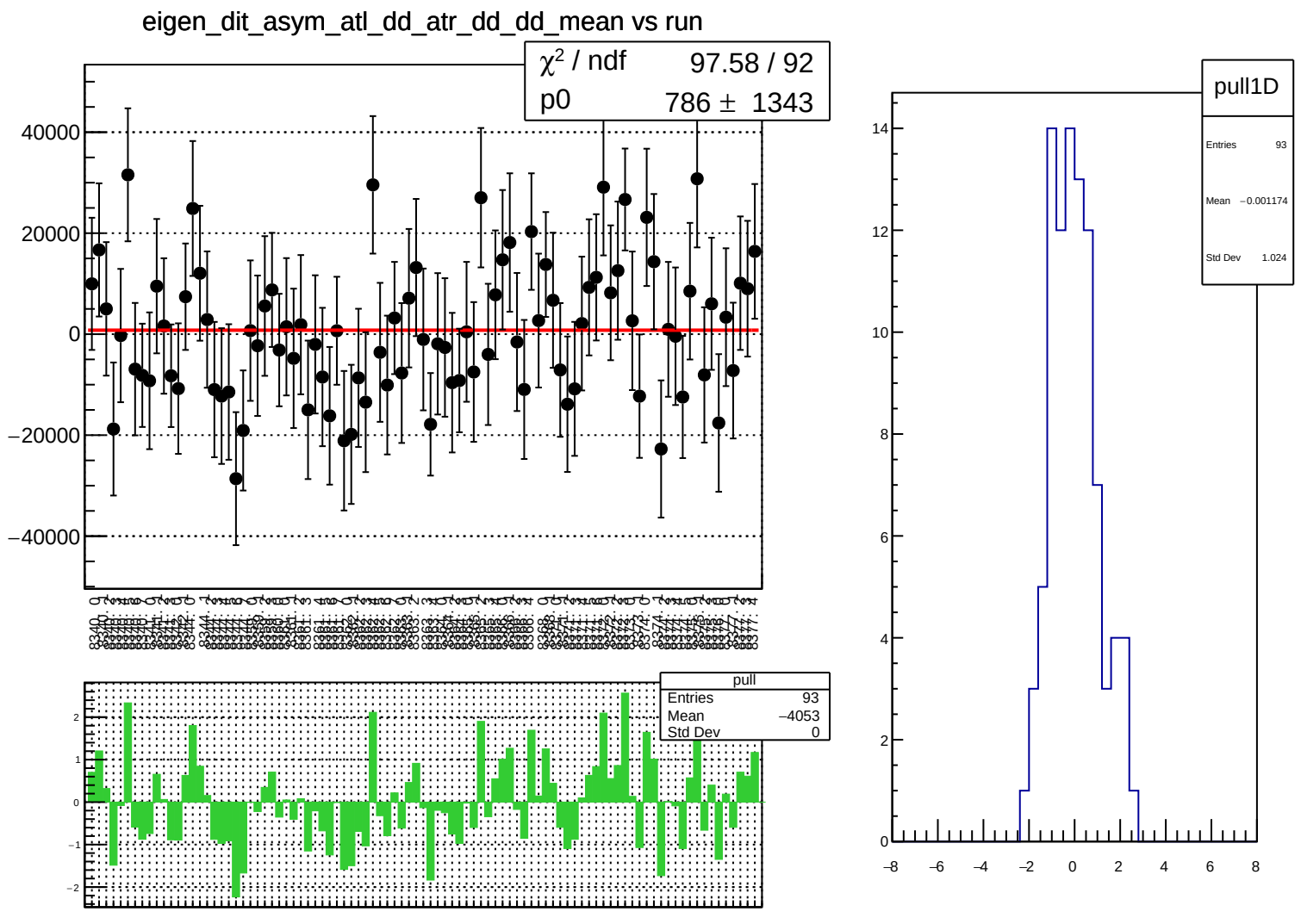

pull1D
Entries 93
Mean −0.001174
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

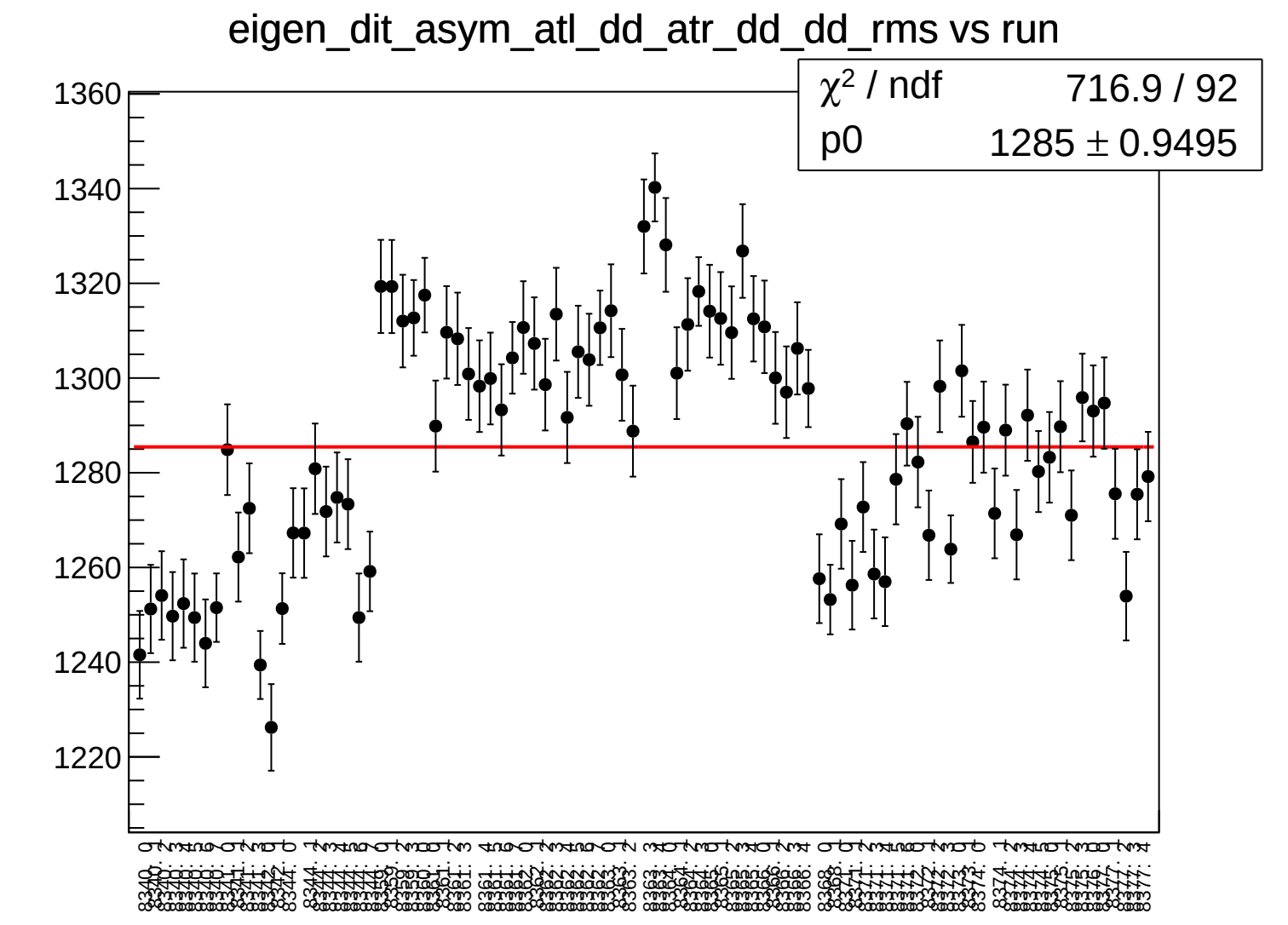

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 716.9 / 92
p0 1285 ± 0.9495
1360
1340
1320
1300
1280
1260
1240
1220

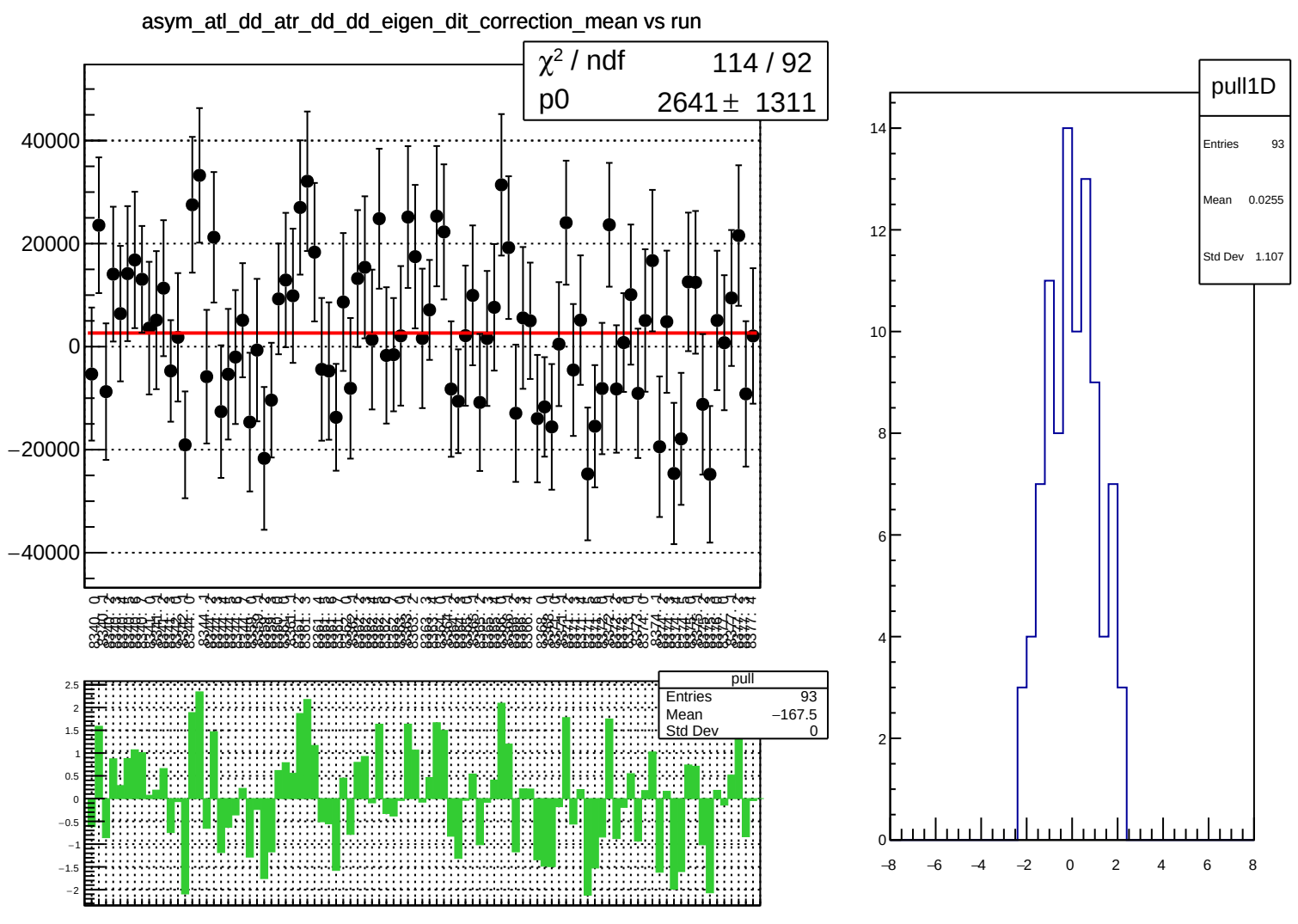

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 114 / 92
p0 2641 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

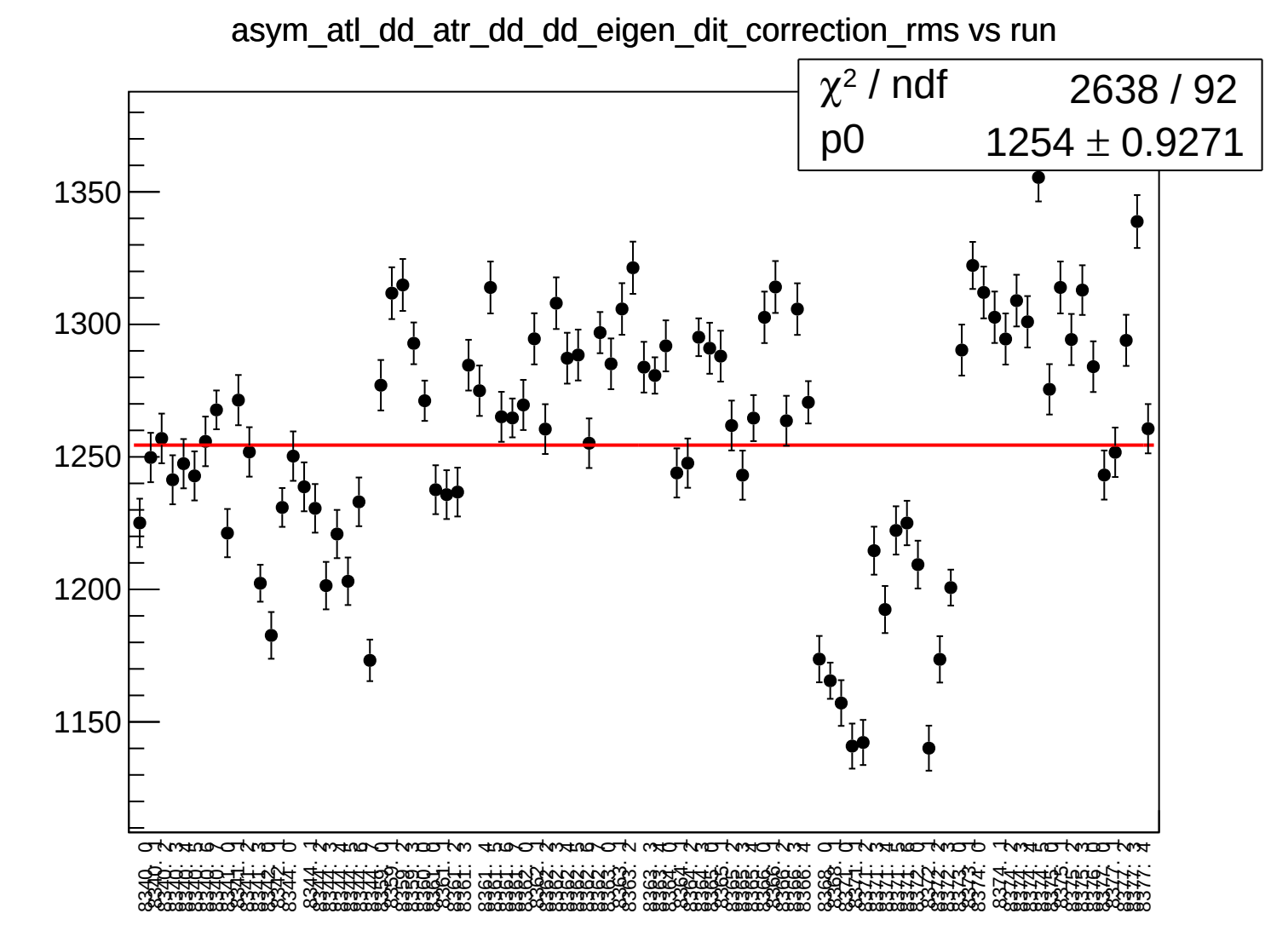

pull1D
Entries 93
Mean 0.0255
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

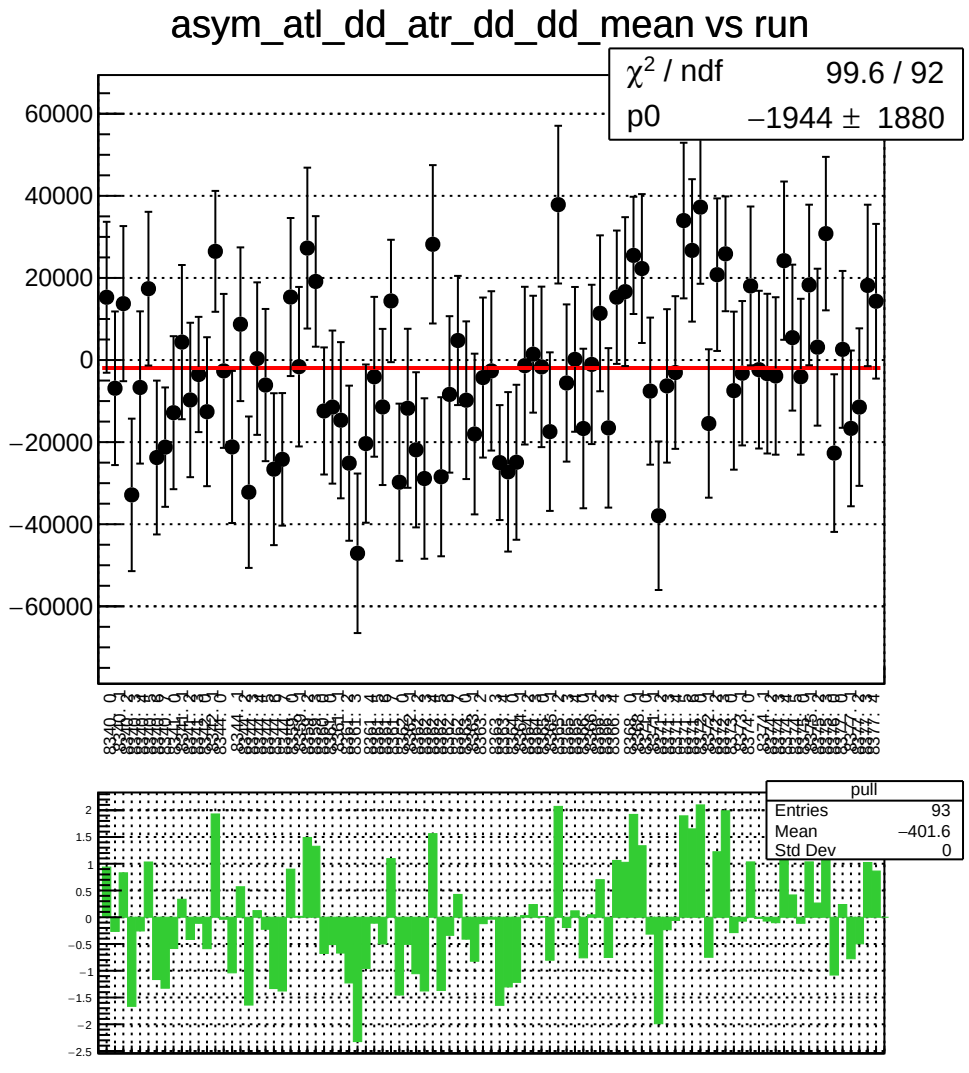

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2638 / 92
p0 1254 ± 0.9271
1350
1300
1250
1200
1150

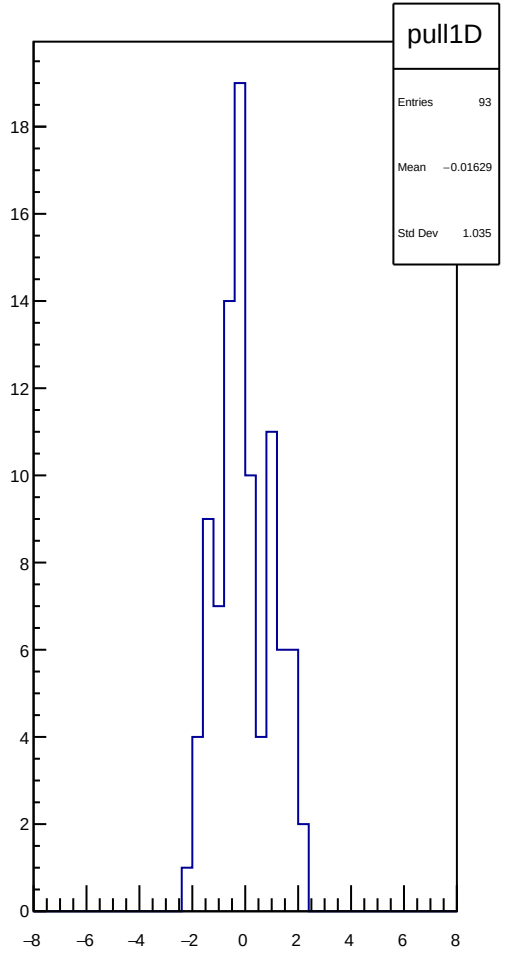

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 97.58 / 92
p0 786 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4053
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001174
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

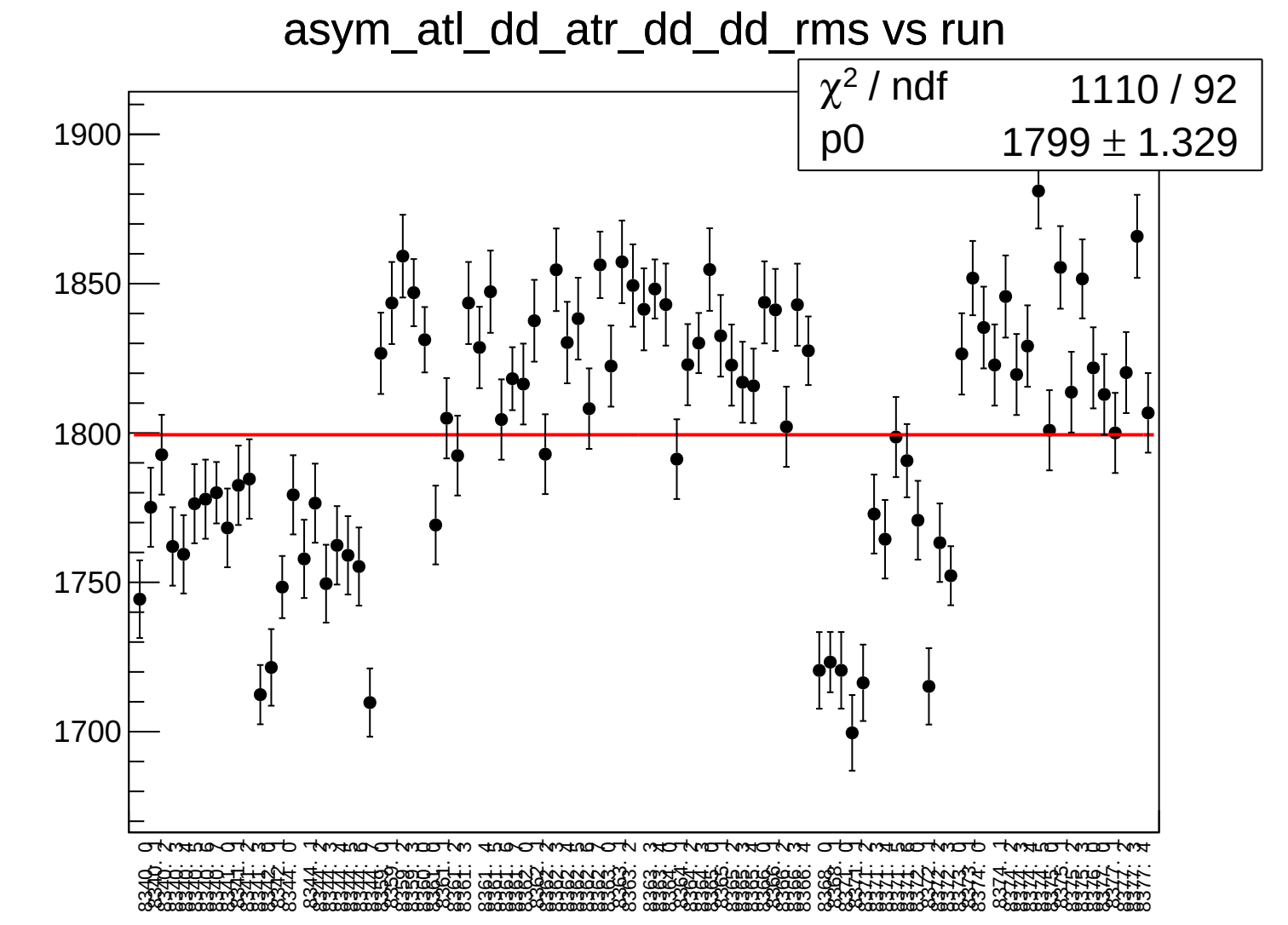

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 716.9 / 92
p0 1285 ± 0.9495
1360
1340
1320
1300
1280
1260
1240
1220

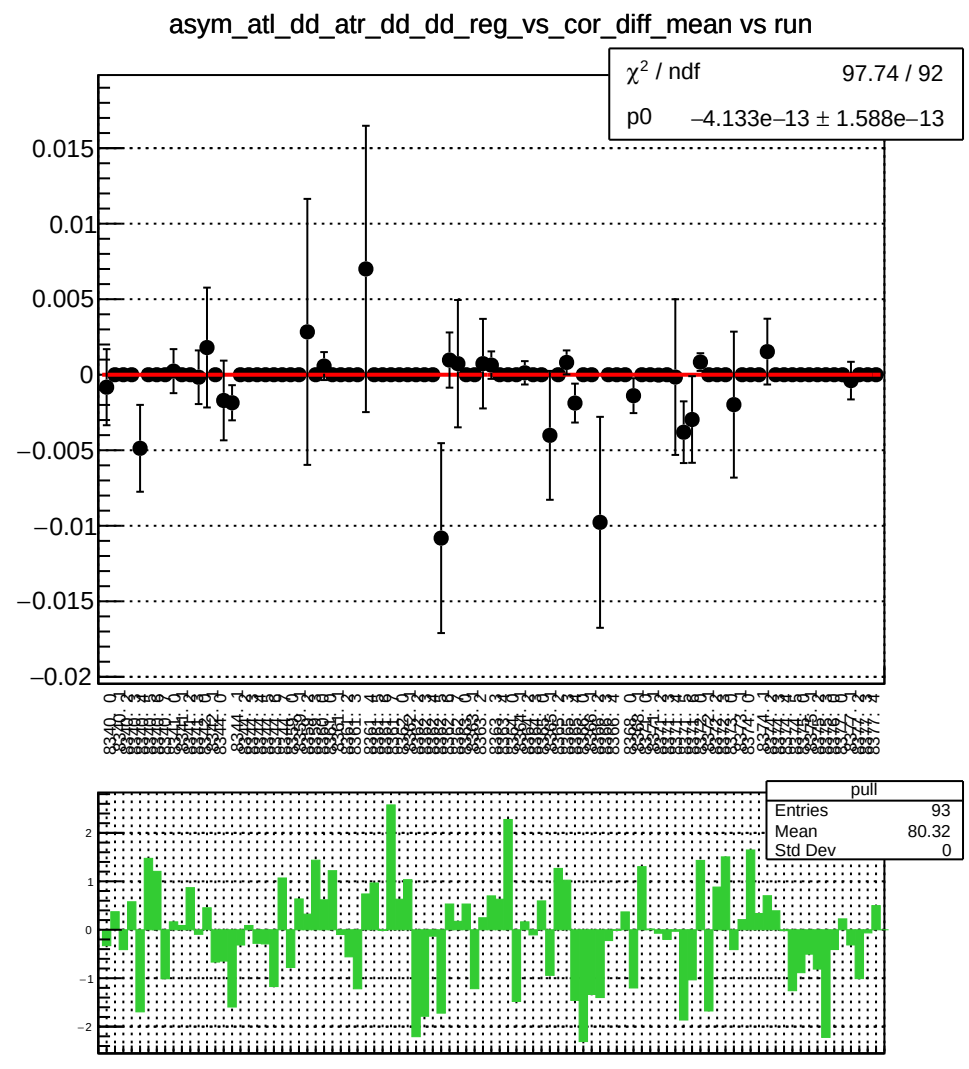

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 114 / 92
p0 2641 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0255
Std Dev 1.107
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

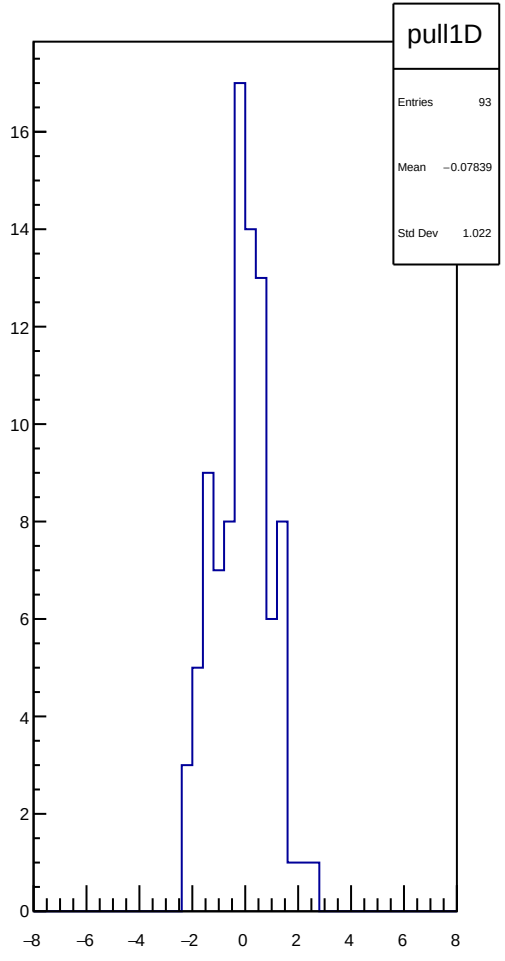

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2638 / 92
p0 1254 ± 0.9271
1350
1300
1250
1200
1150

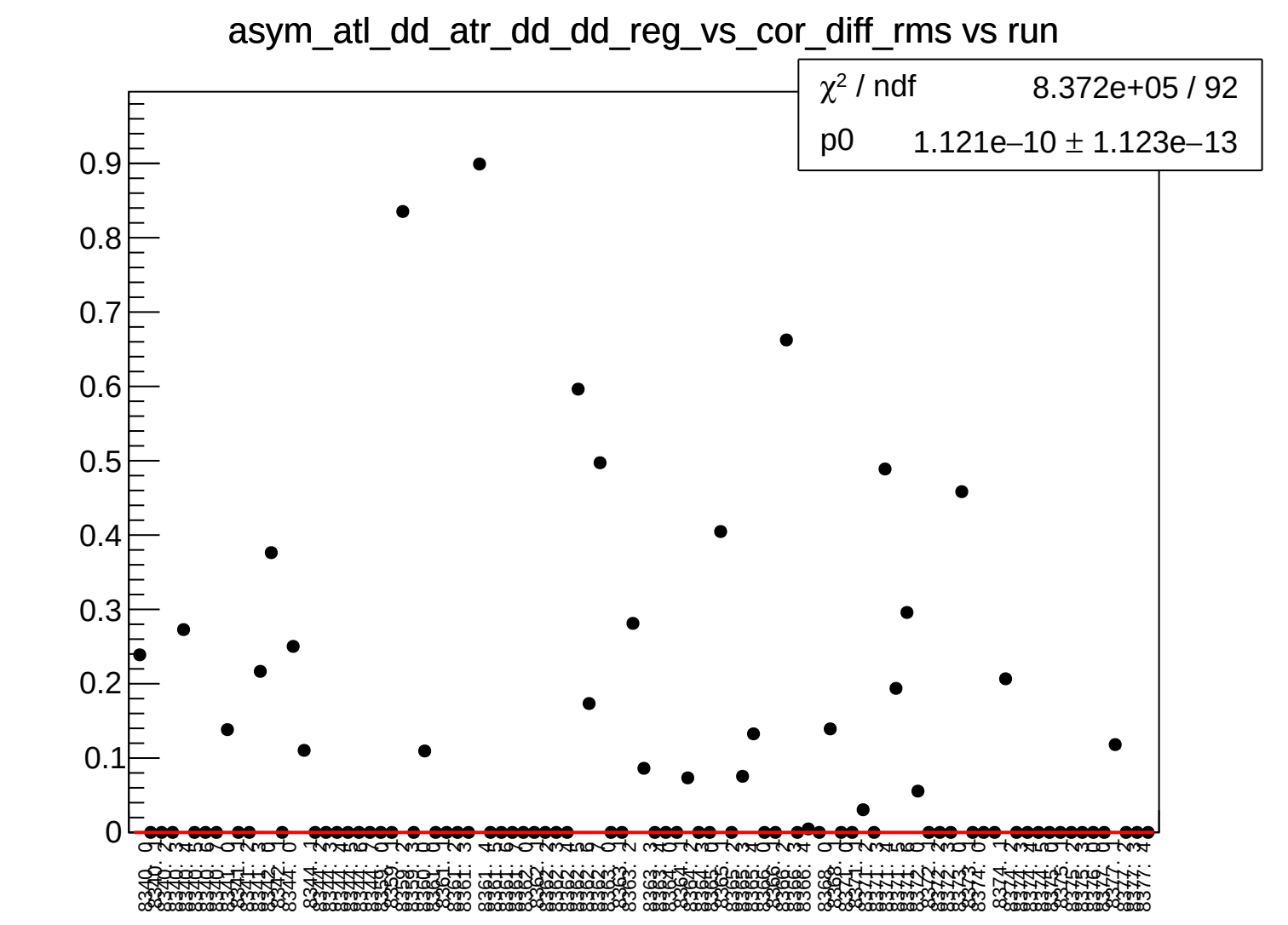

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 99.6 / 92
p0 −1944 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −401.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

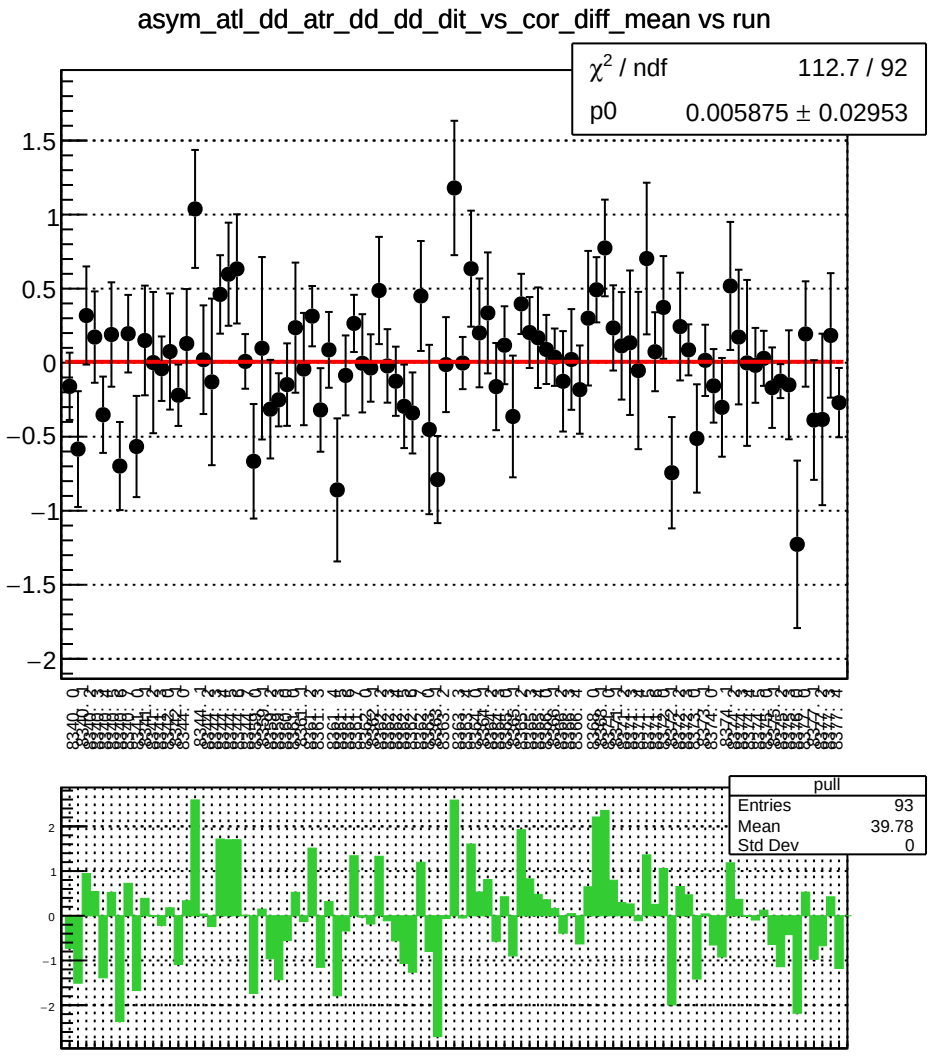

pull1D
Entries 93
Mean −0.01629
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

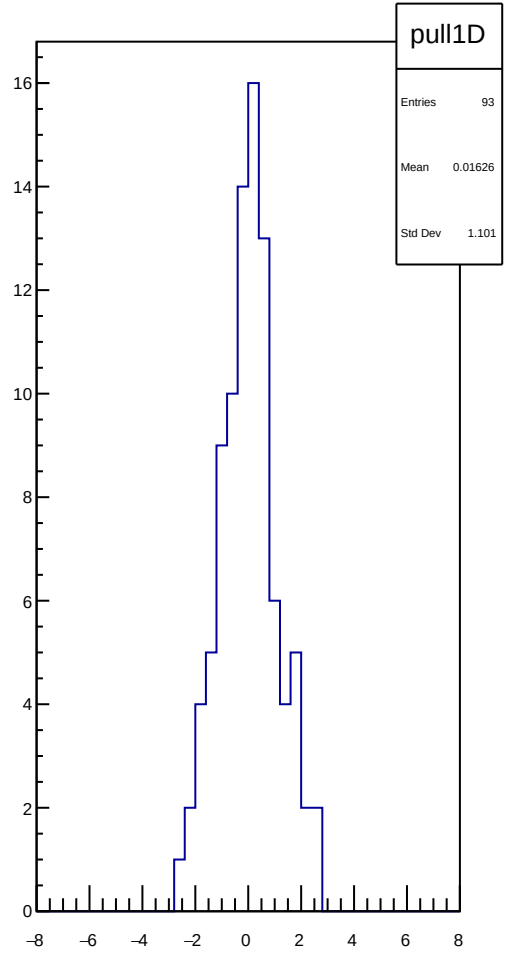

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1110 / 92
p0 1799 ± 1.329
1900
1850
1800
1750
1700

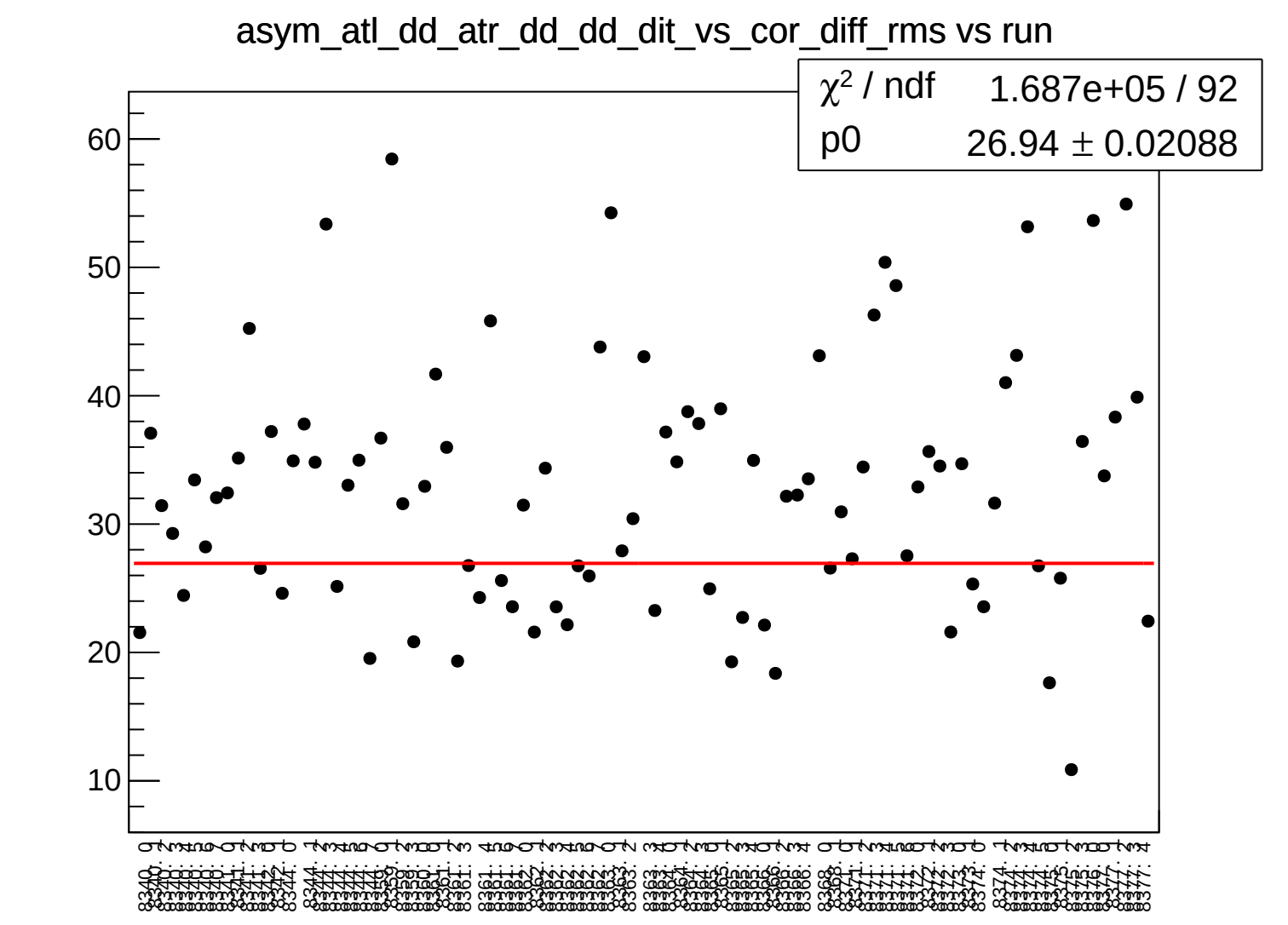

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.74 / 92
p0 −4.133e−13 ± 1.588e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 80.32
Std Dev 0
2
1
0
−1
−2

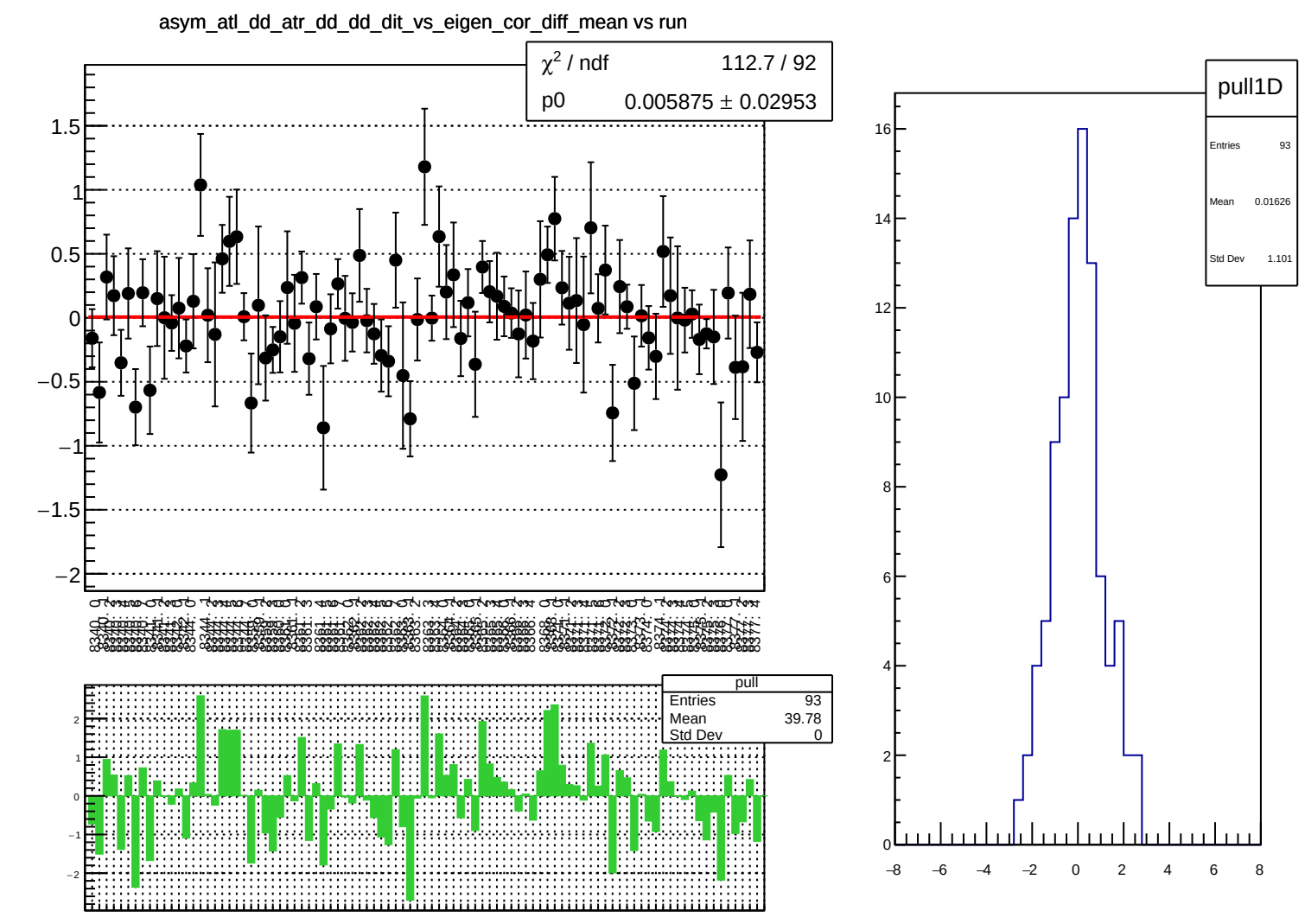

pull1D
Entries 93
Mean −0.07839
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

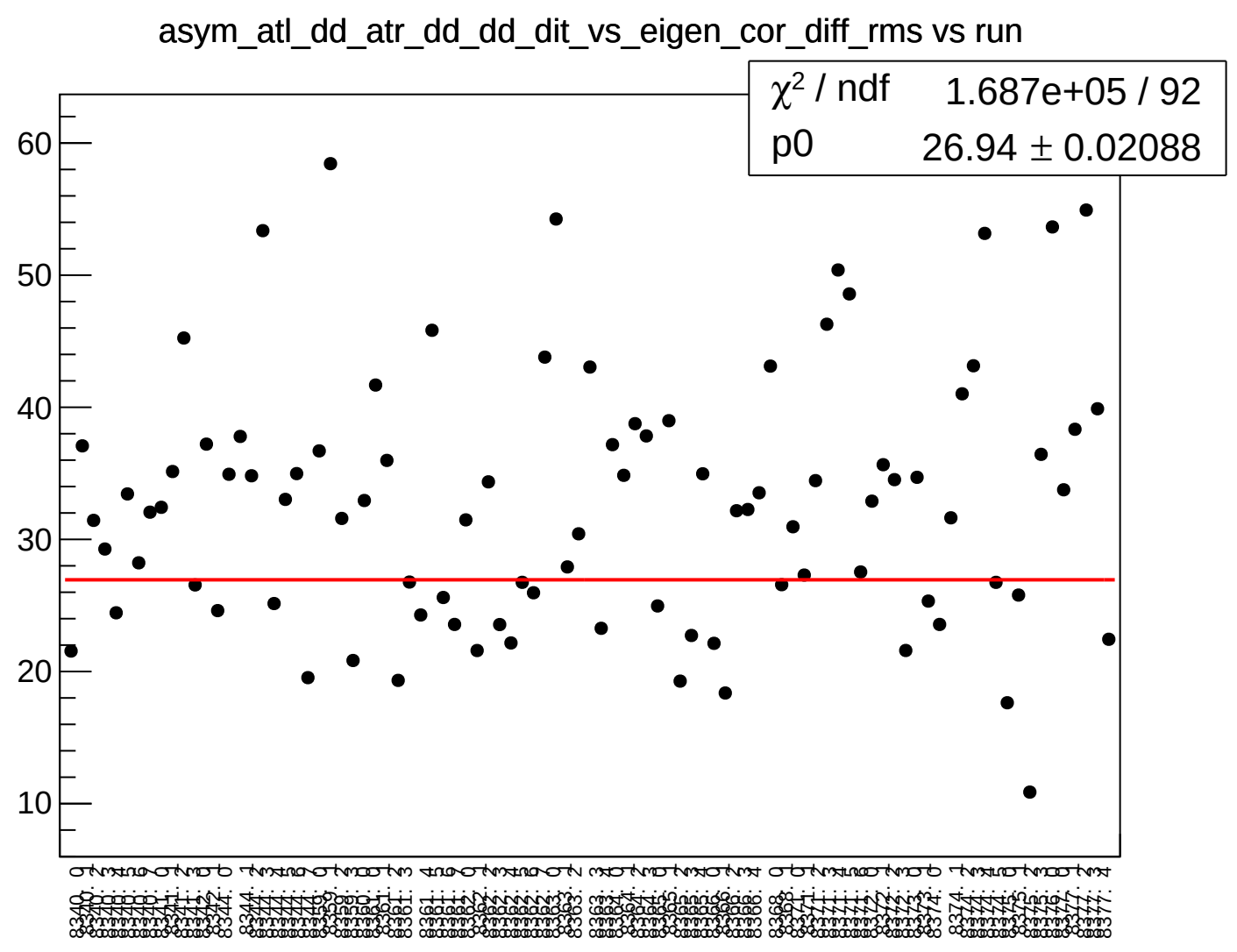

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.372e+05 / 92
p0 1.121e−10 ± 1.123e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

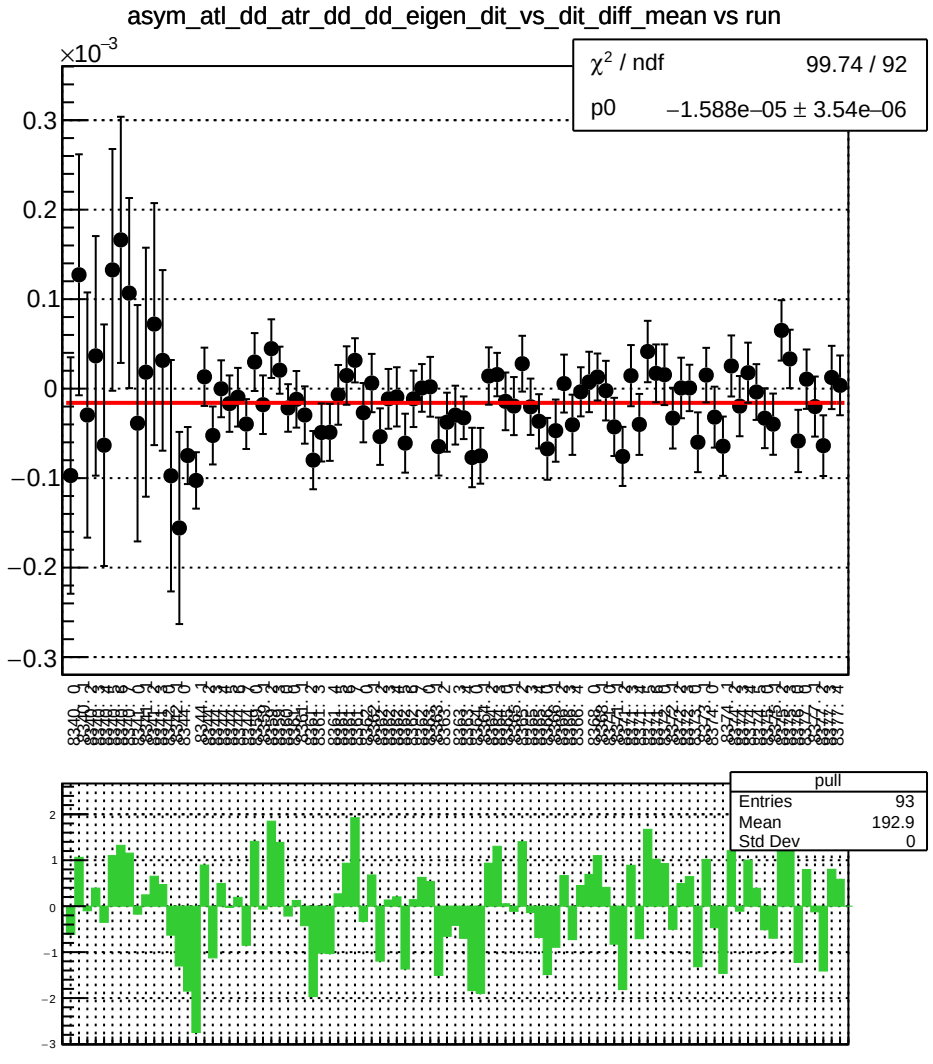

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005875 ± 0.02953
pull
Entries 93
Mean 39.78
Std Dev 0

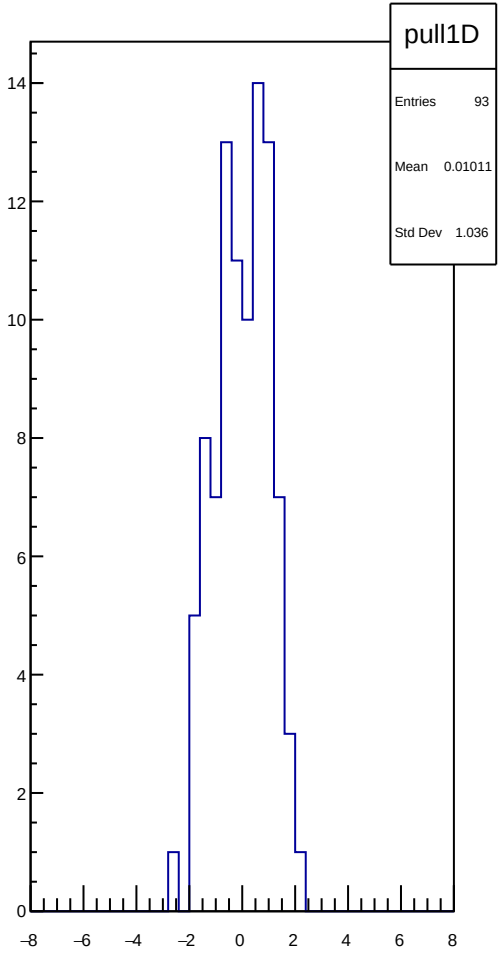

pull1D
Entries 93
Mean 0.01626
Std Dev 1.101

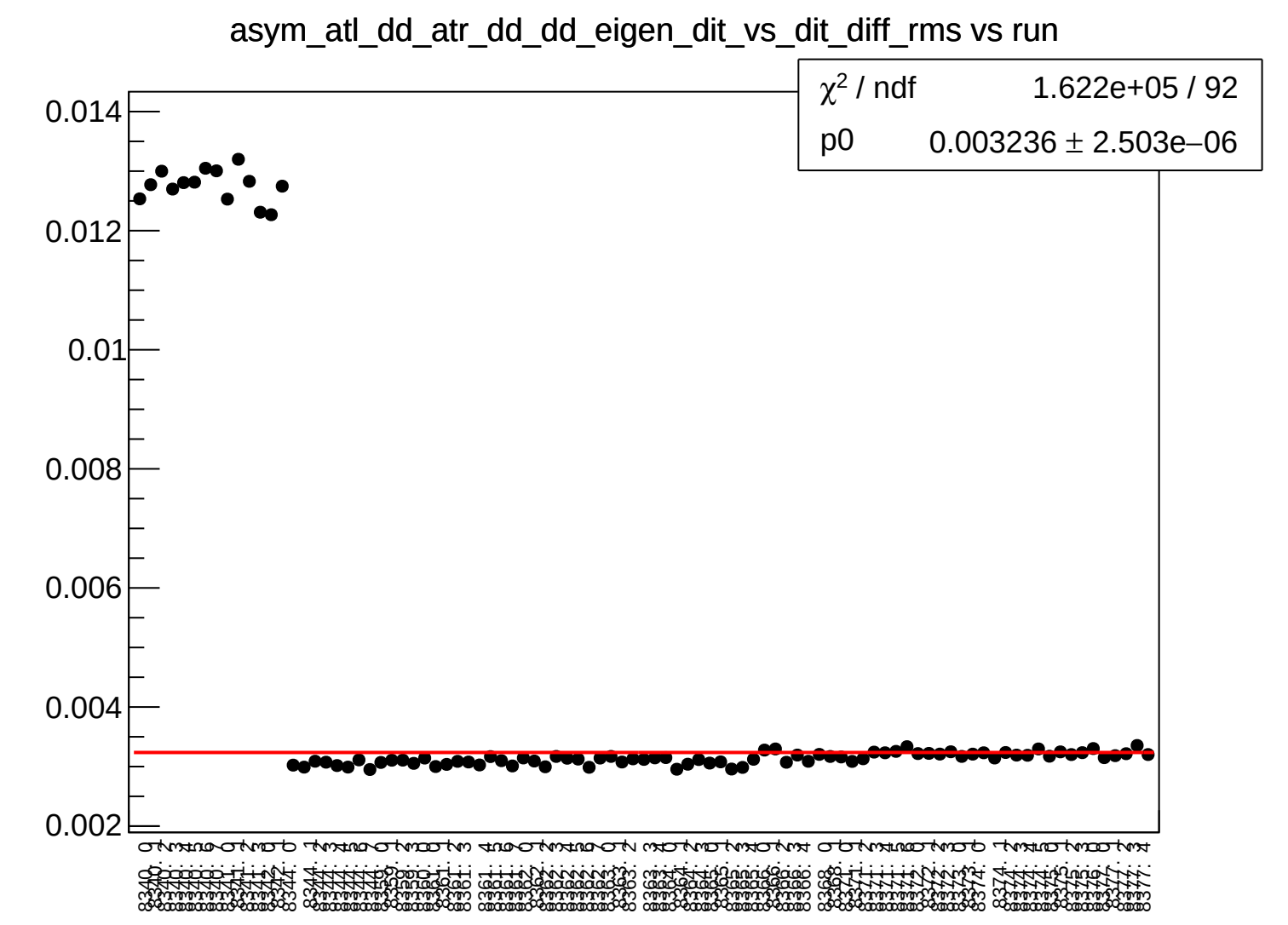

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

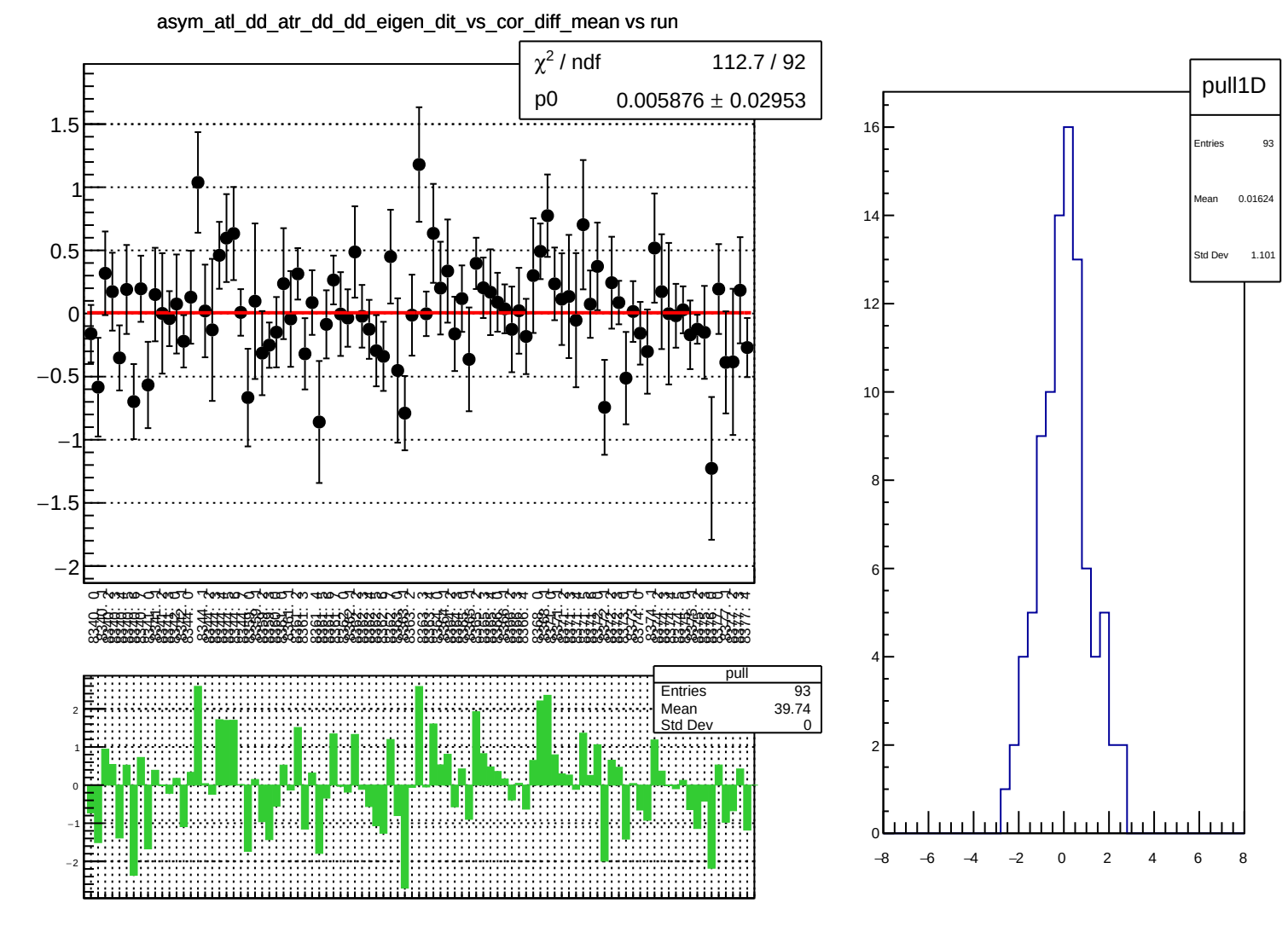

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005875 ± 0.02953
pull
Entries 93
Mean 39.78
Std Dev 0
pull1D
Entries 93
Mean 0.01626
Std Dev 1.101

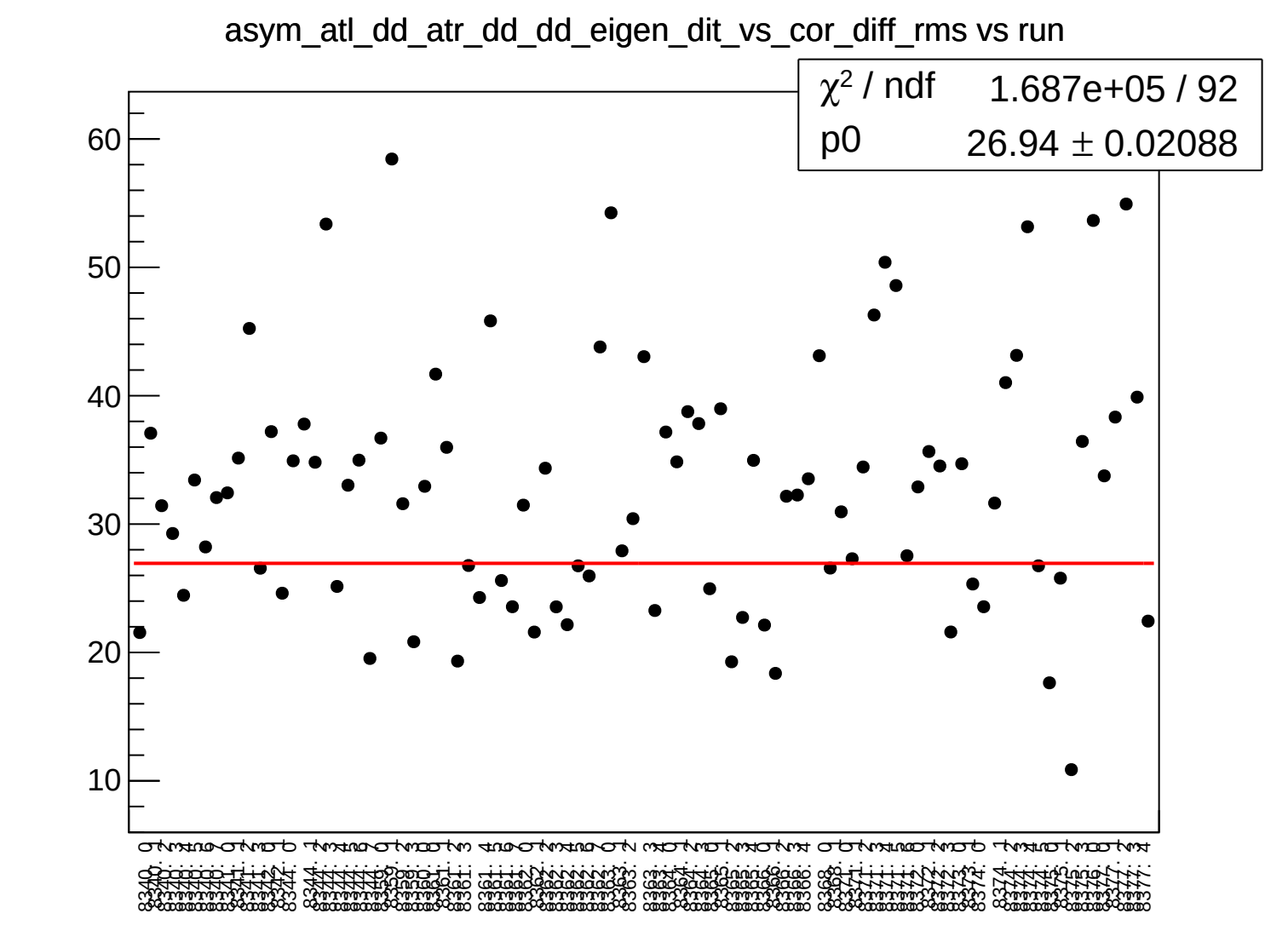

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

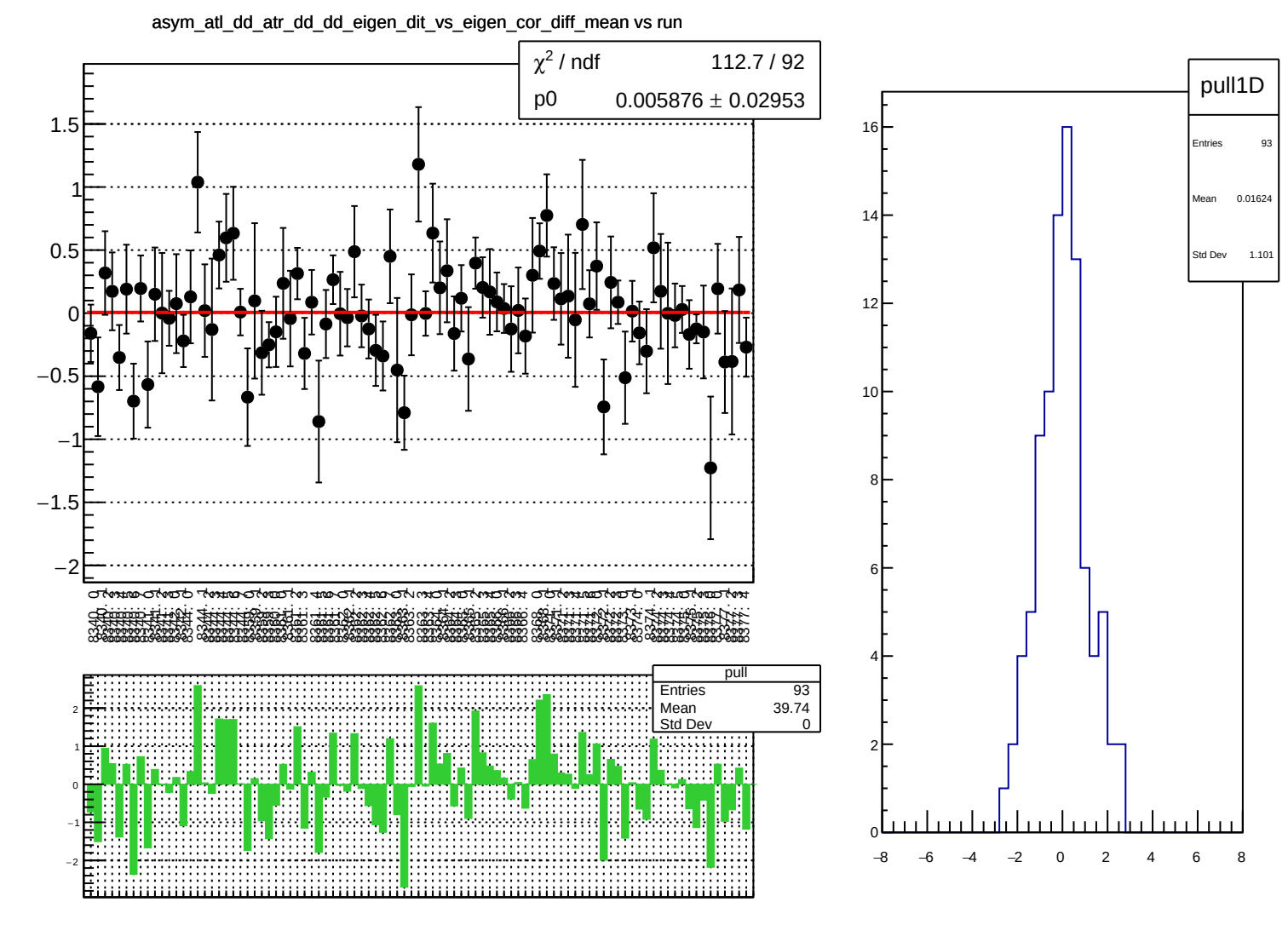

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.74 / 92
p0 −1.588e−05 ± 3.54e−06
pull
Entries 93
Mean 192.9
Std Dev 0

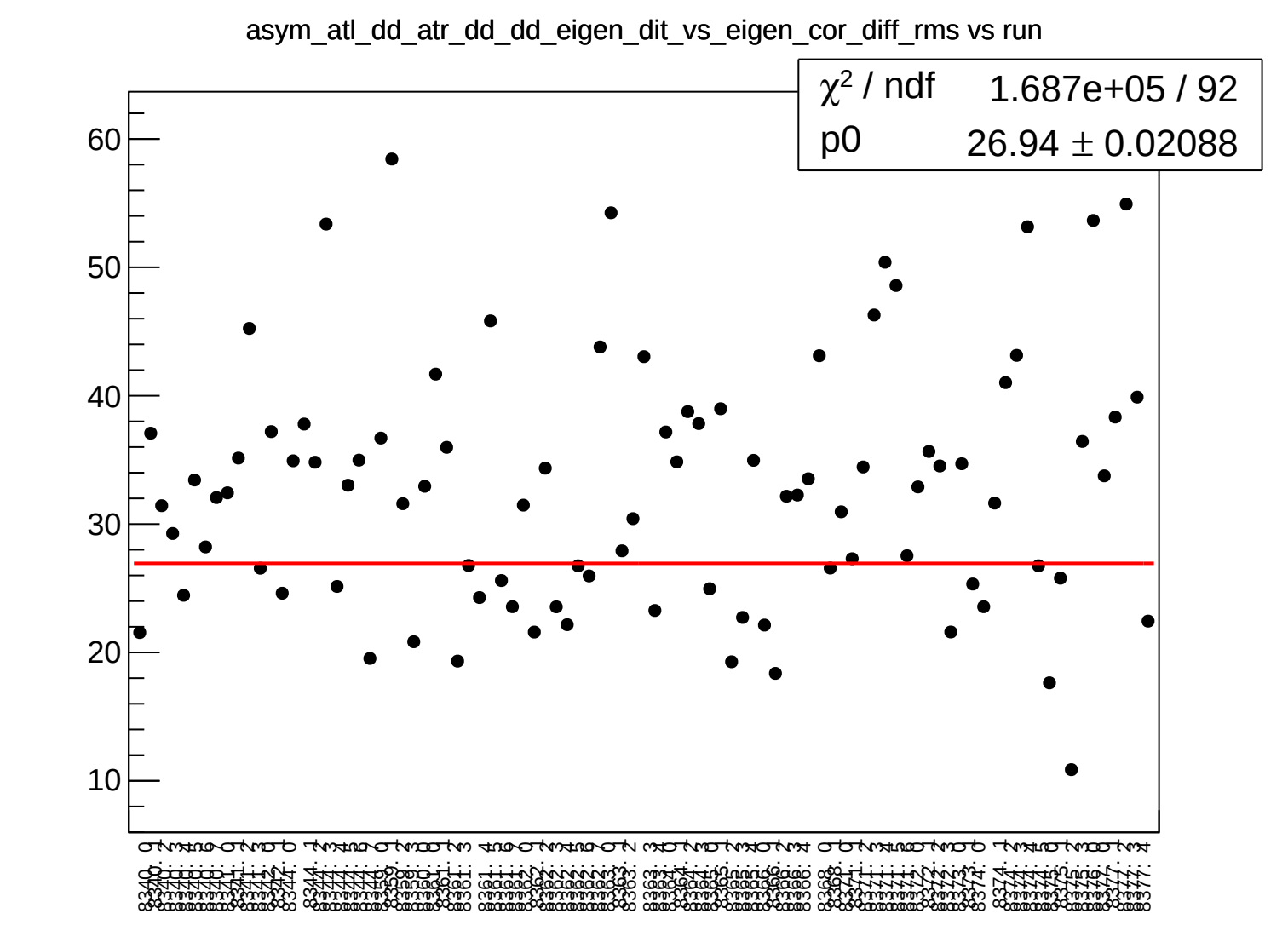

pull1D
Entries 93
Mean 0.01011
Std Dev 1.036

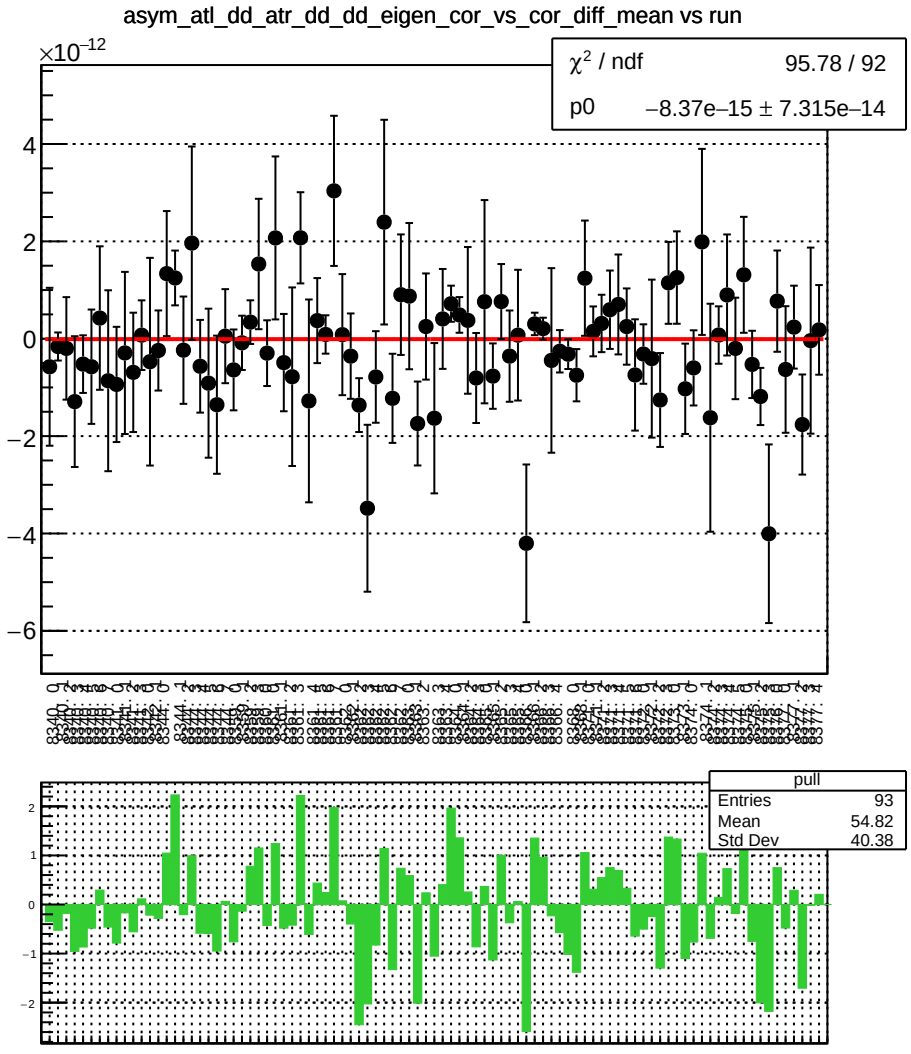

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.622e+05 / 92
p0 0.003236 ± 2.503e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

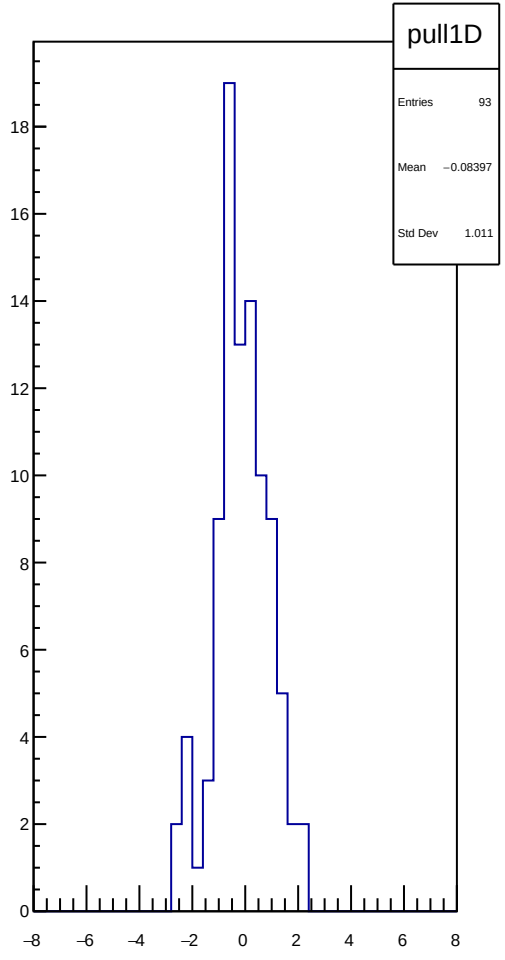

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005876 ± 0.02953
pull
Entries 93
Mean 39.74
Std Dev 0
pull1D
Entries 93
Mean 0.01624
Std Dev 1.101

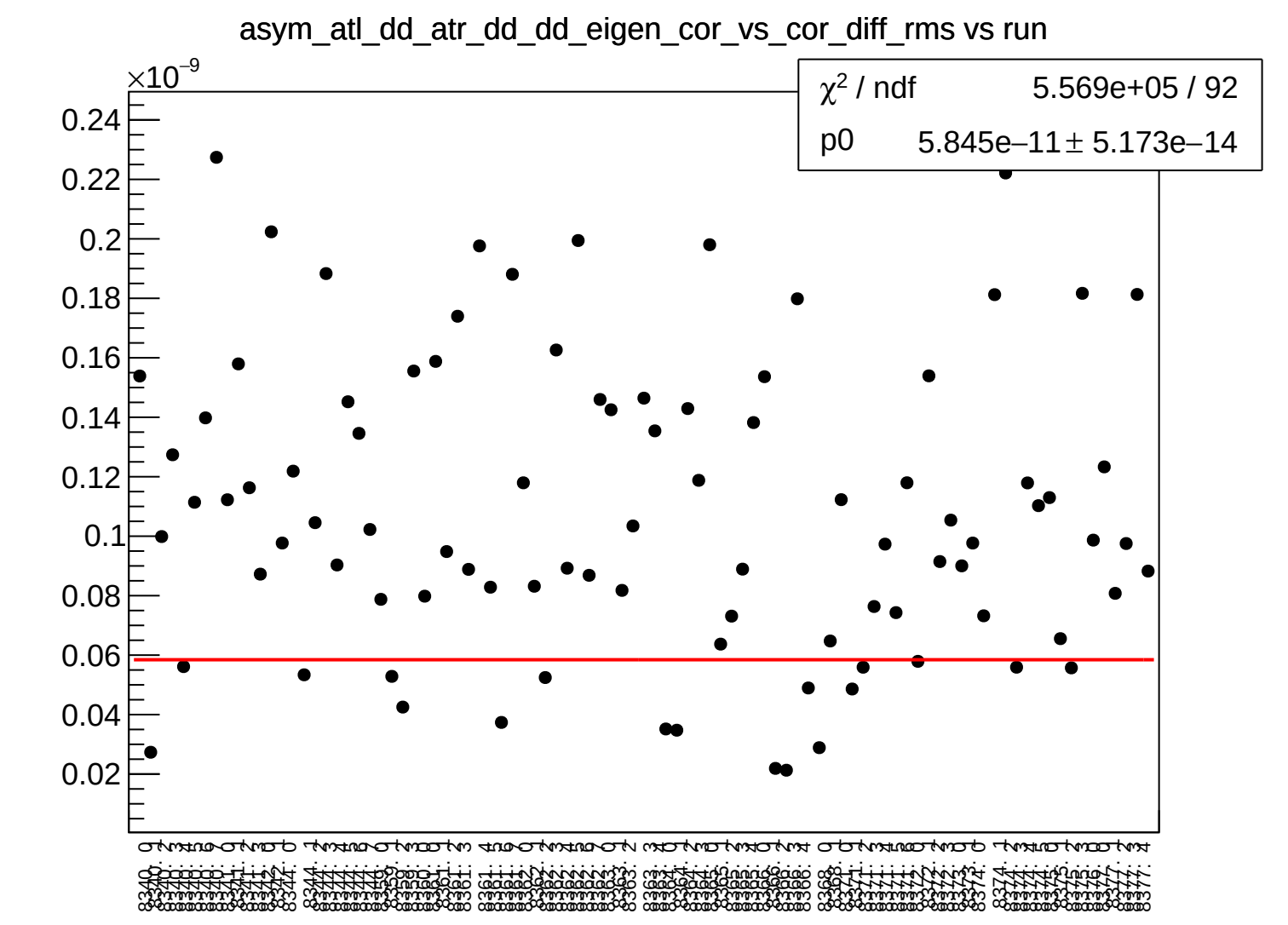

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

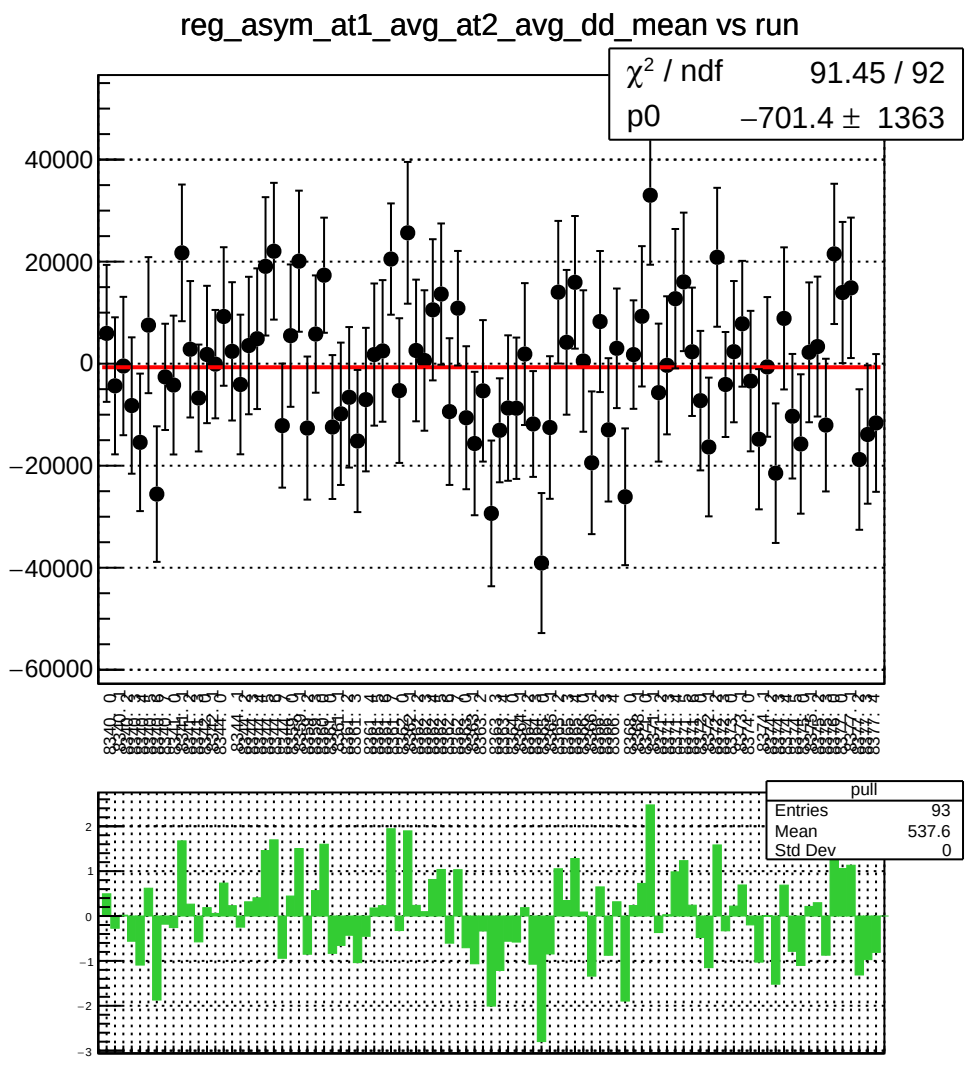

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005876 ± 0.02953
pull
Entries 93
Mean 39.74
Std Dev 0
pull1D
Entries 93
Mean 0.01624
Std Dev 1.101

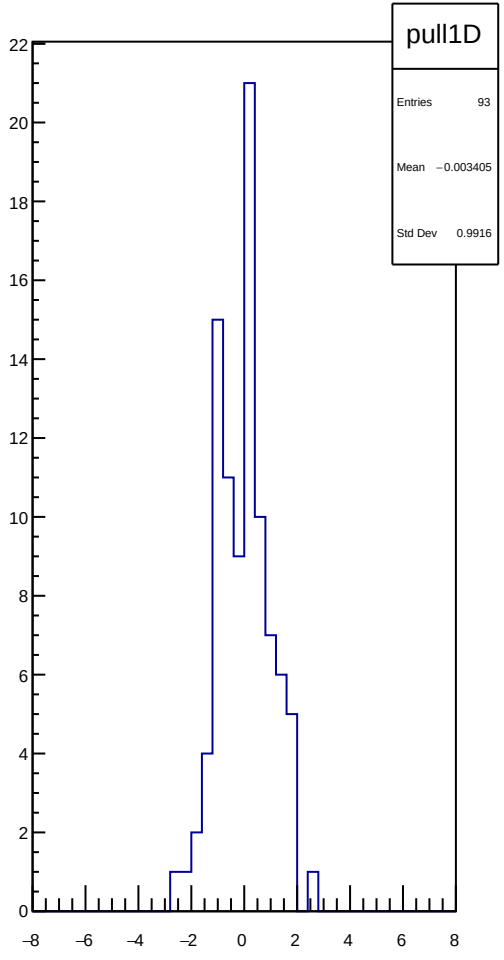

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

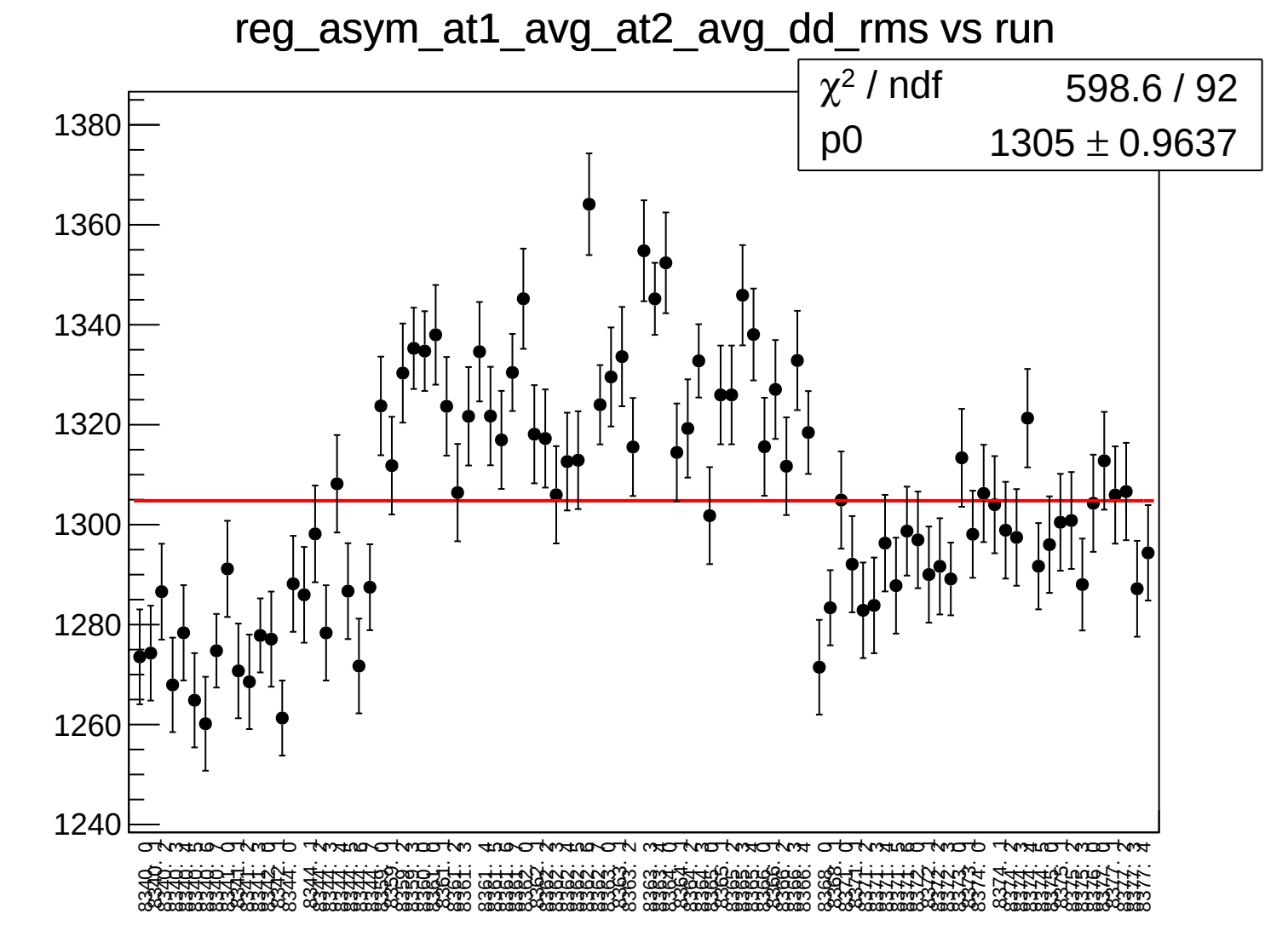

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.78 / 92
p0 −8.37e−15 ± 7.315e−14
pull
Entries 93
Mean 54.82
Std Dev 40.38

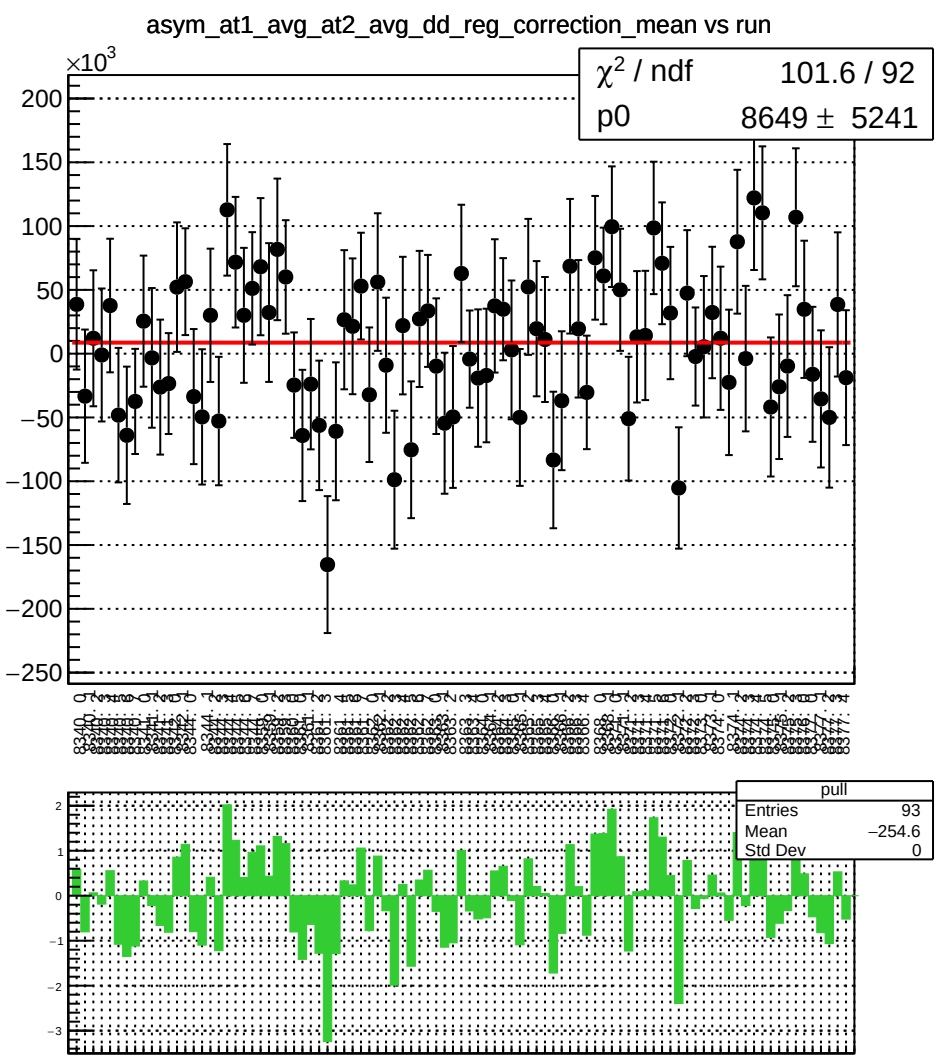

pull1D
Entries 93
Mean −0.08397
Std Dev 1.011

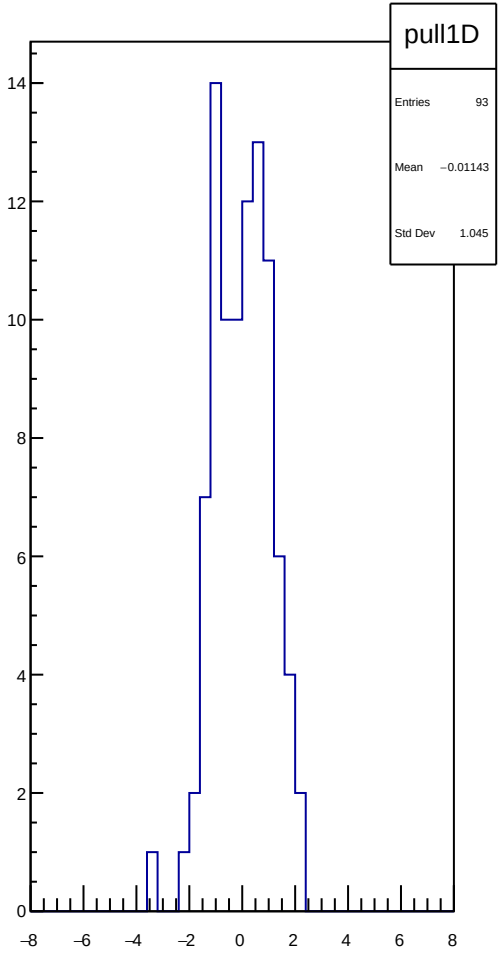

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.569e+05 / 92
p0 5.845e−11 ± 5.173e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

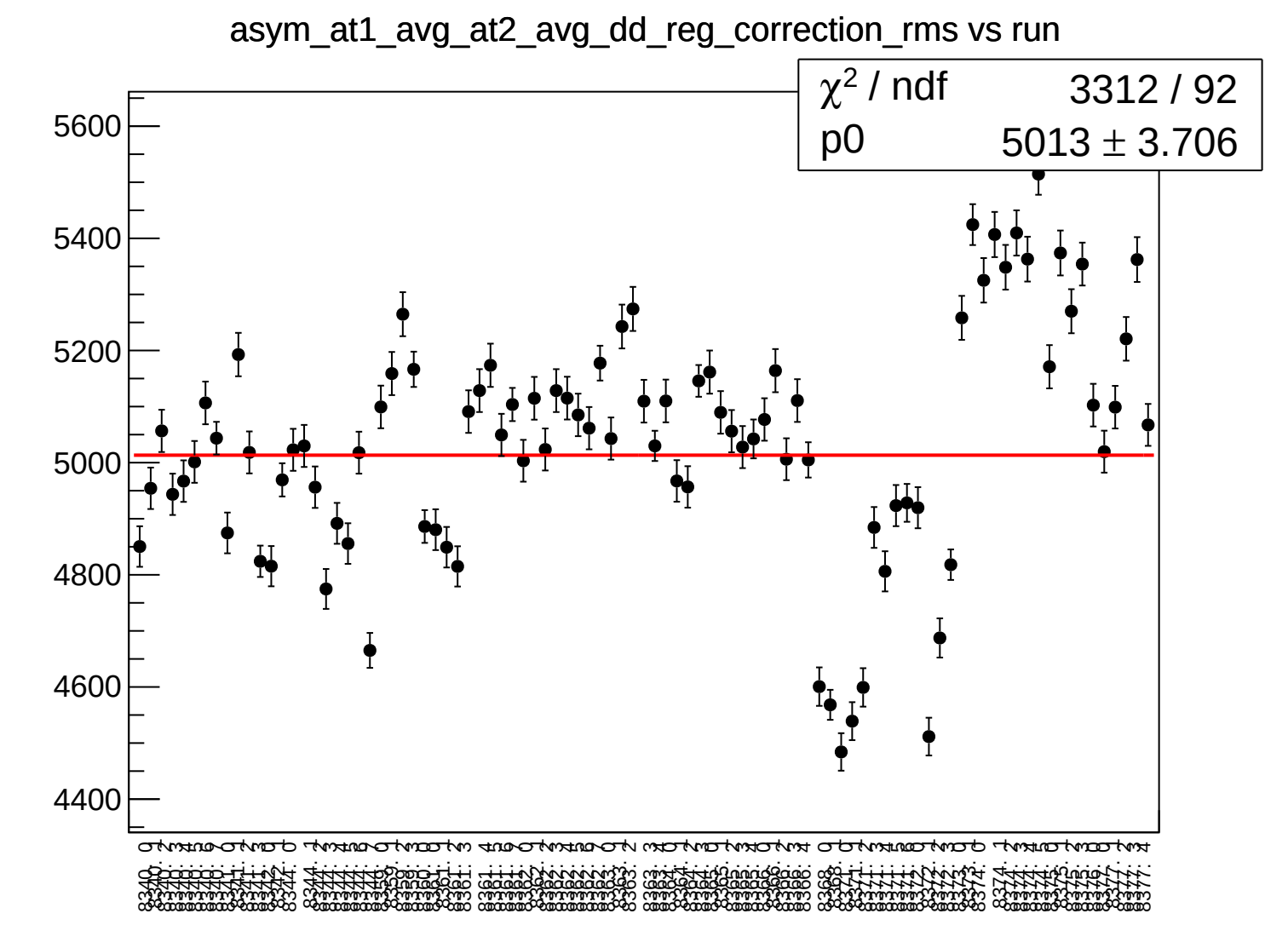

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.4 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.6
Std Dev 0
2
1
0
−1
−2
−3

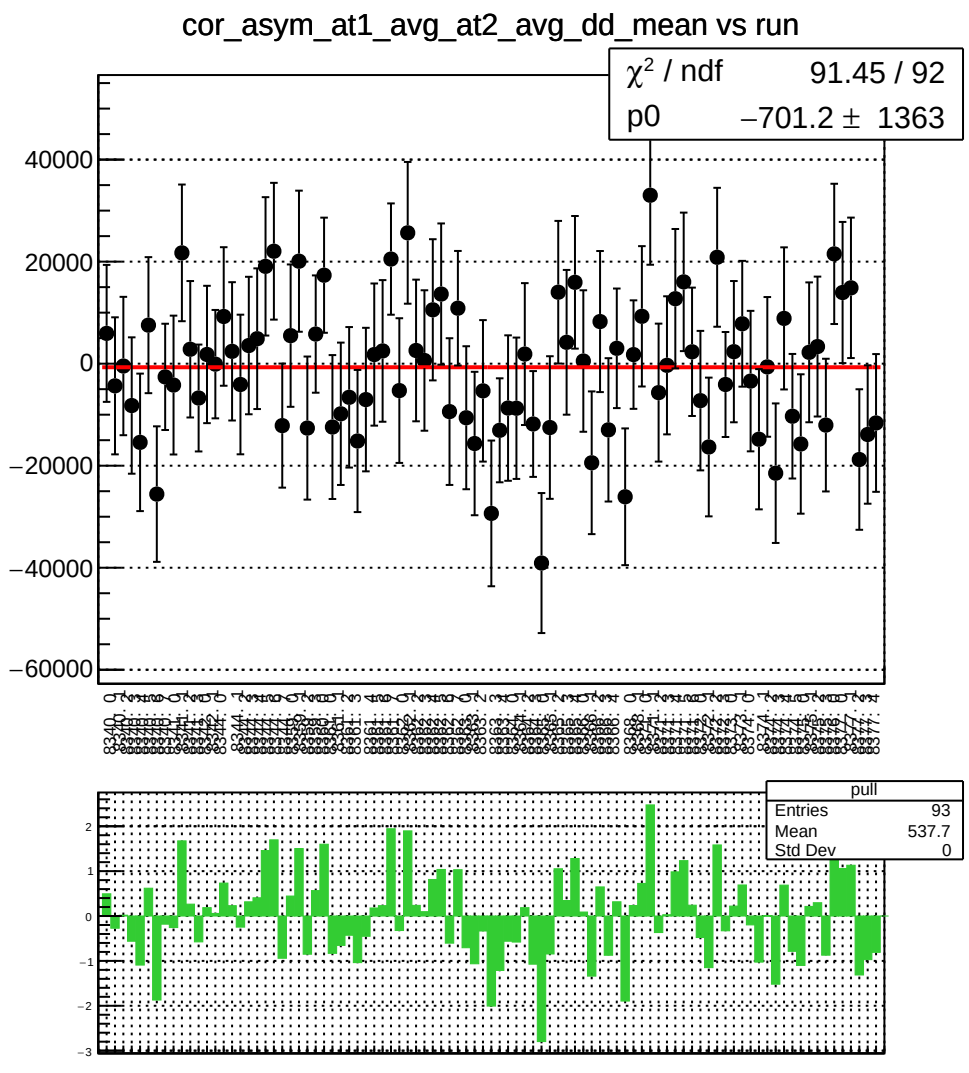

pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

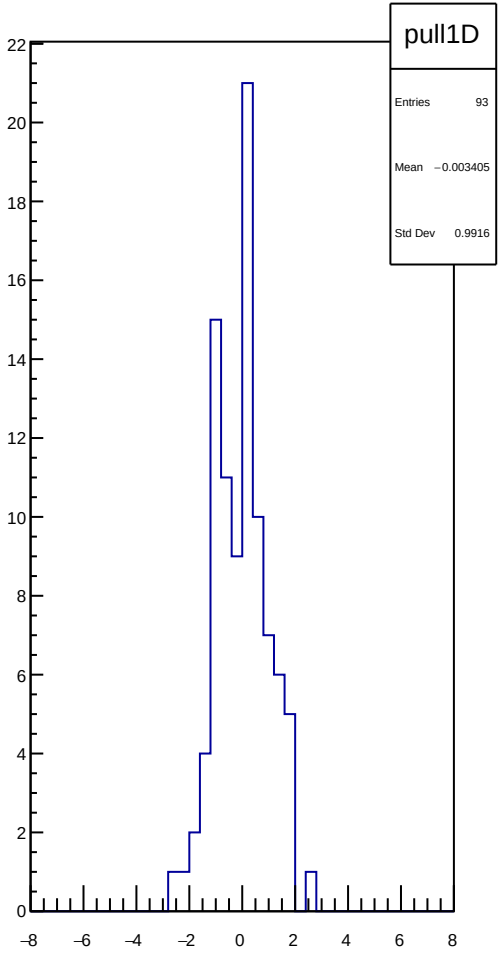

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

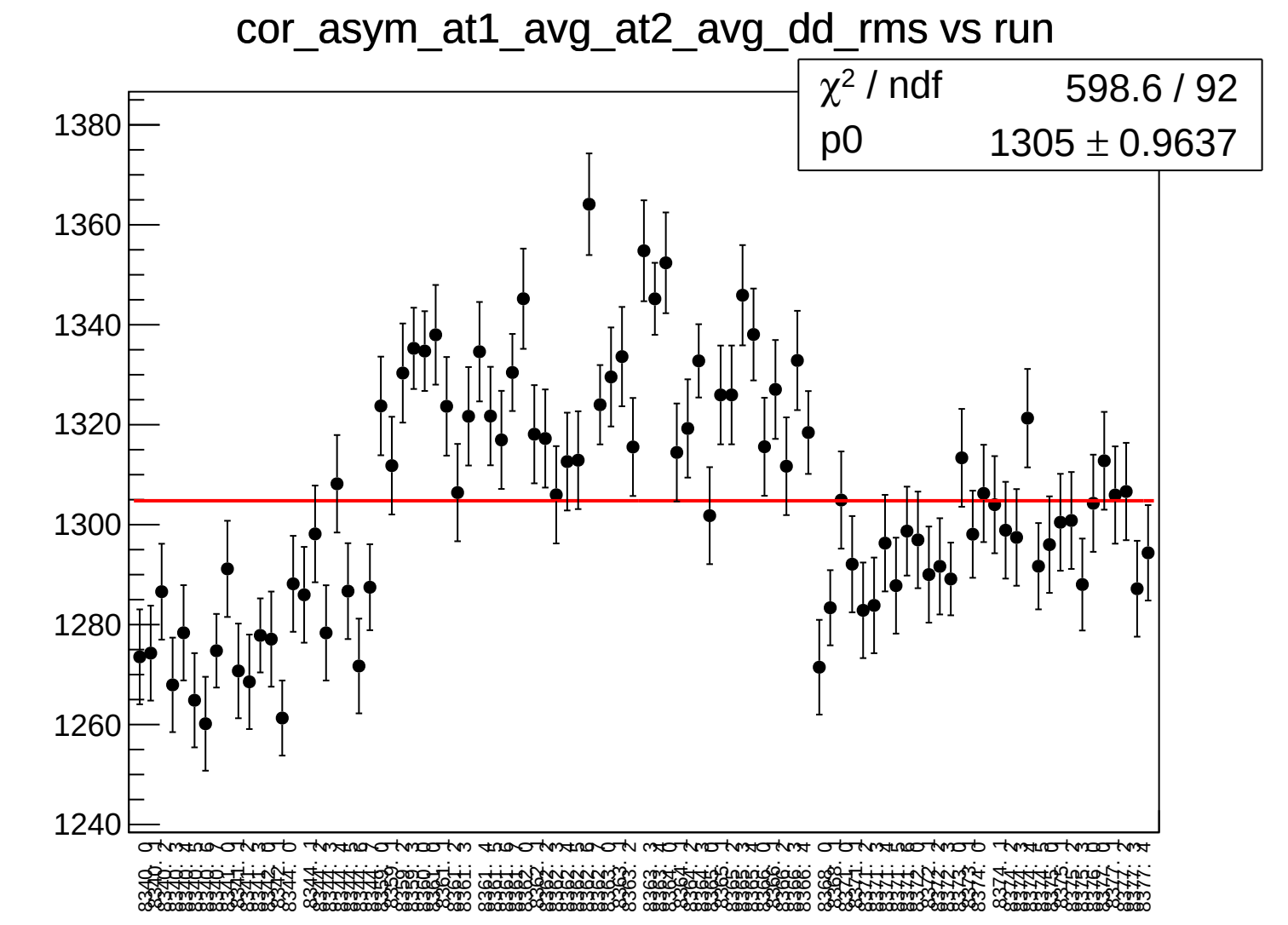

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.6
Std Dev 0

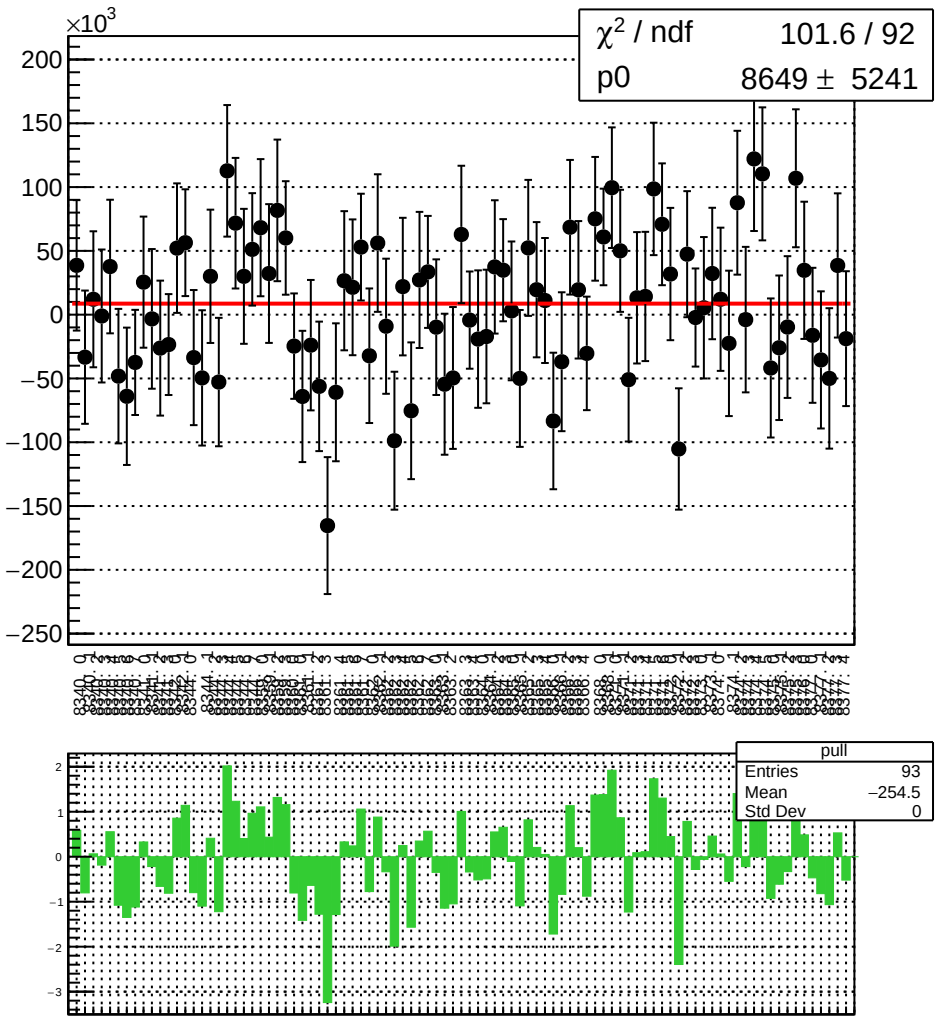

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

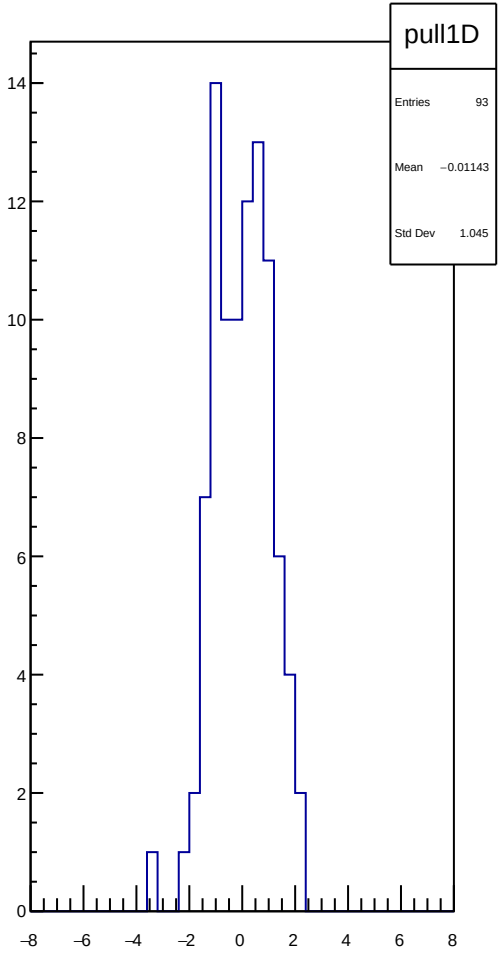

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3312 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

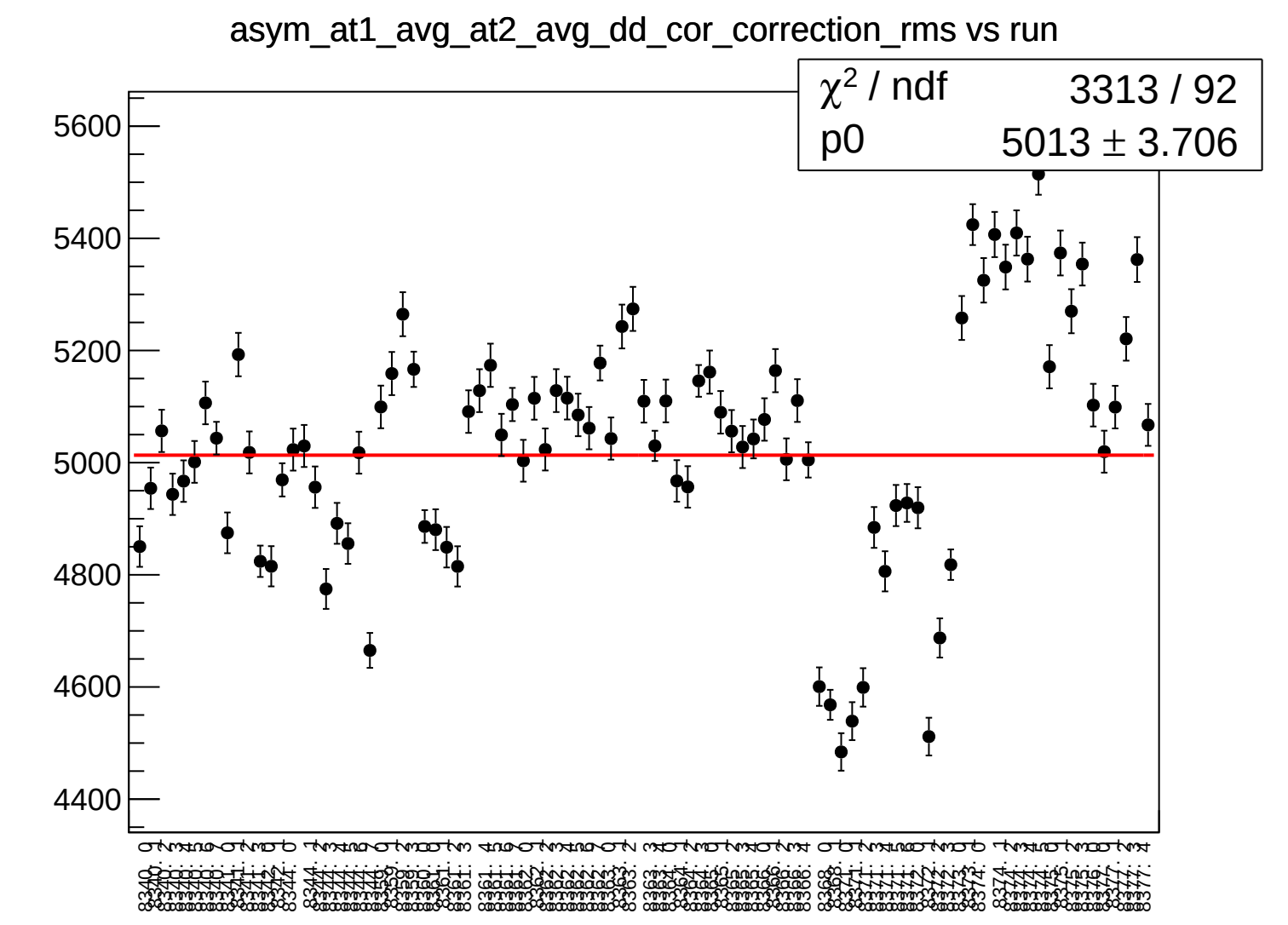

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3

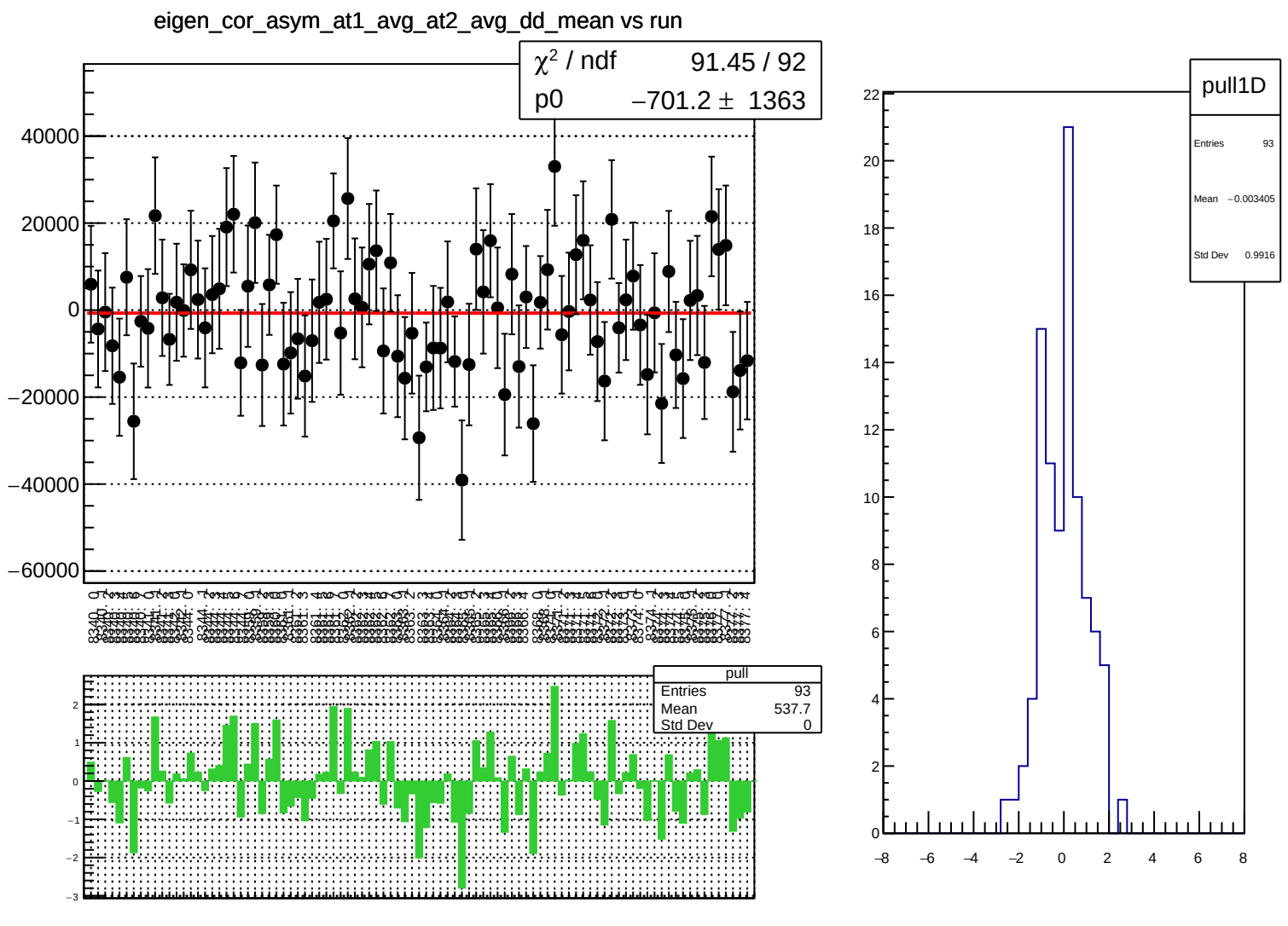

pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

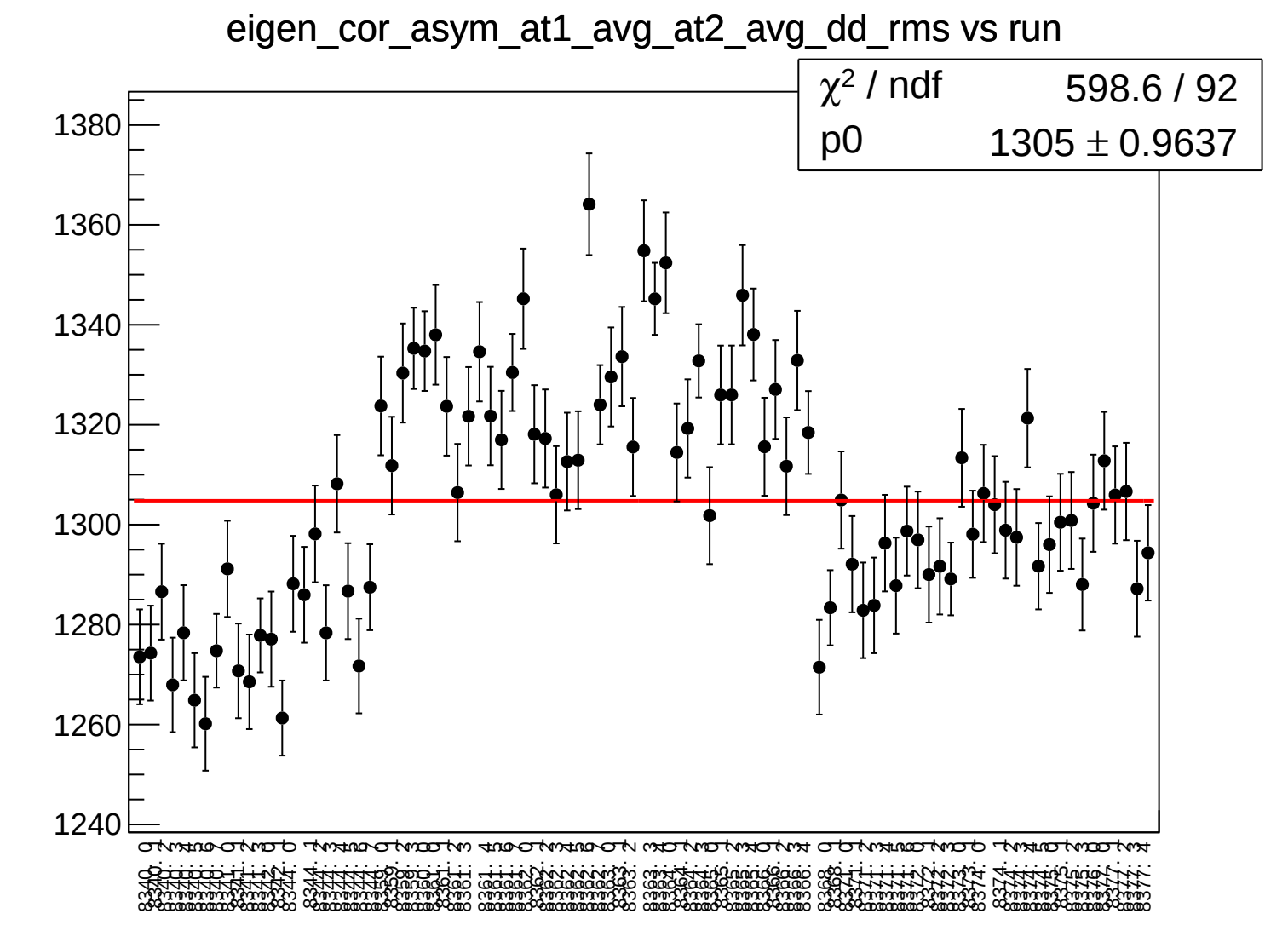

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

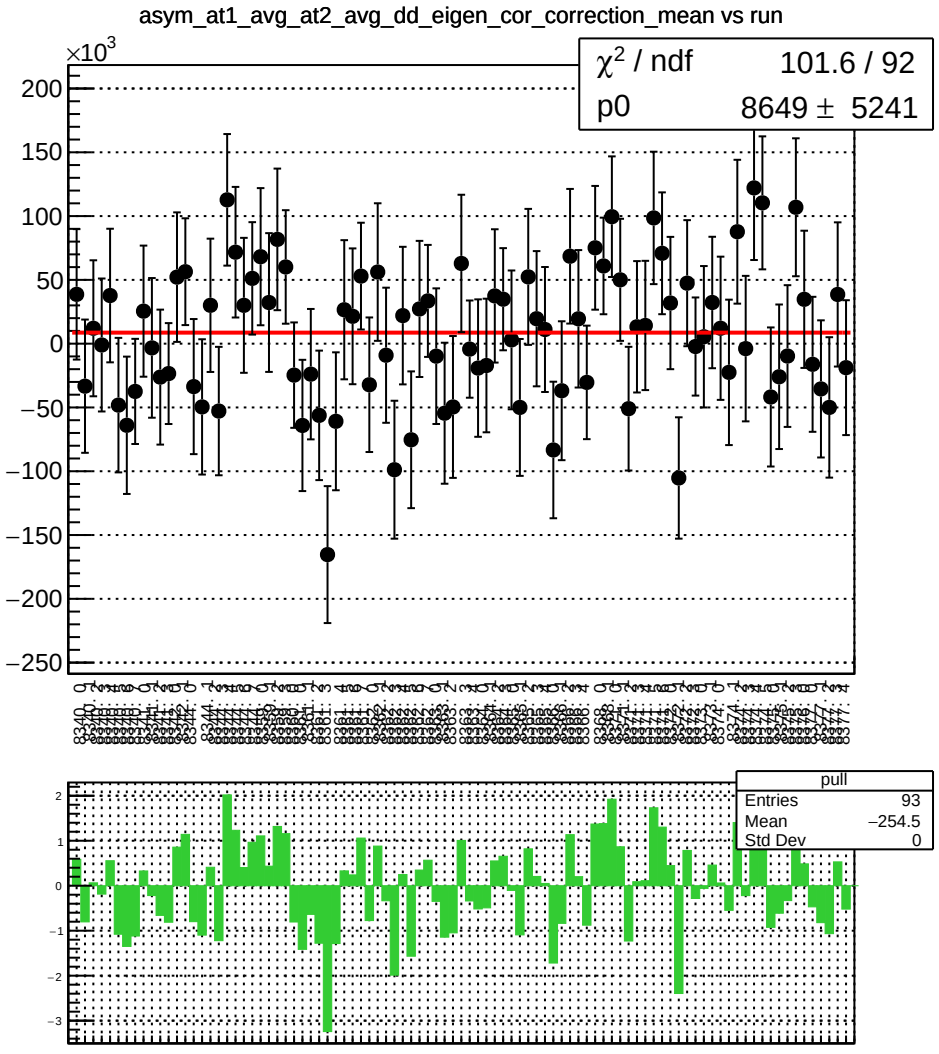

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.5
Std Dev 0

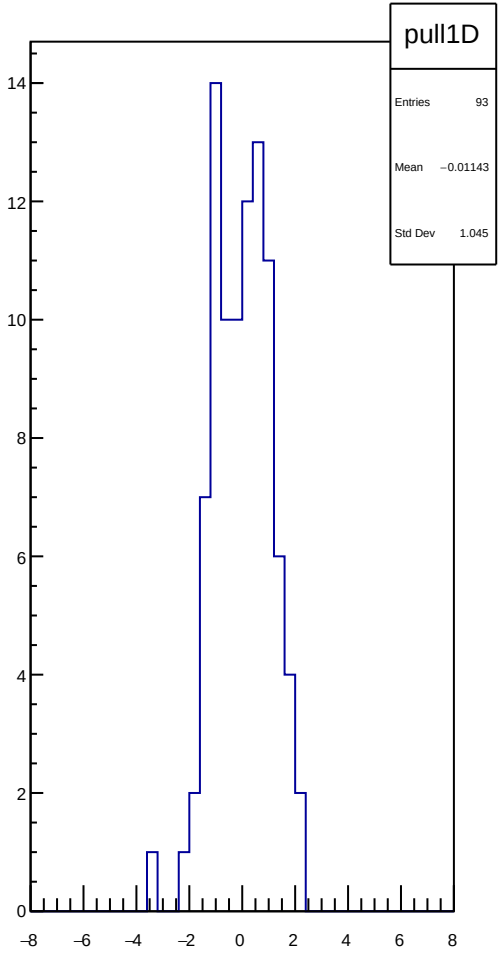

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

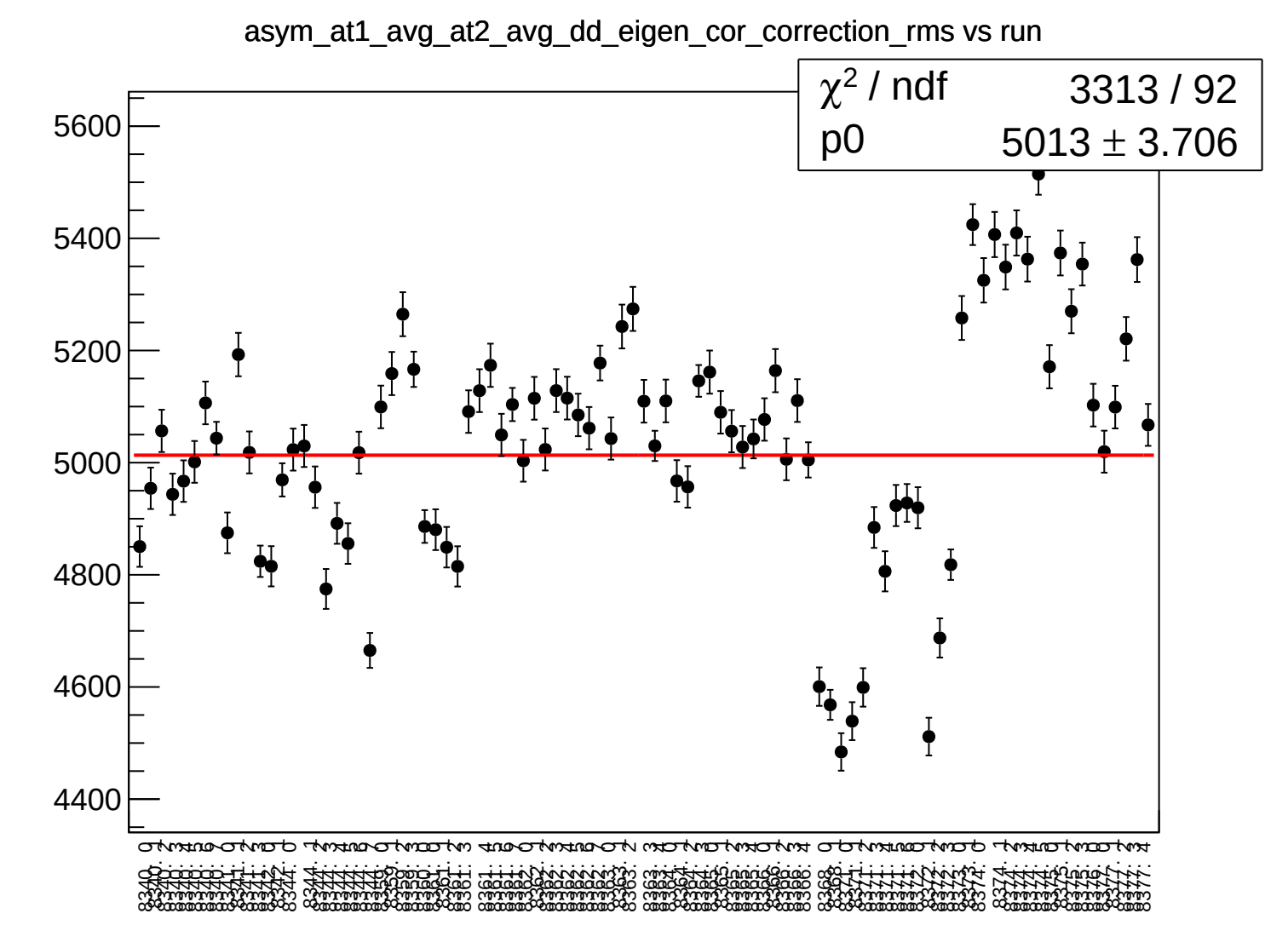

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

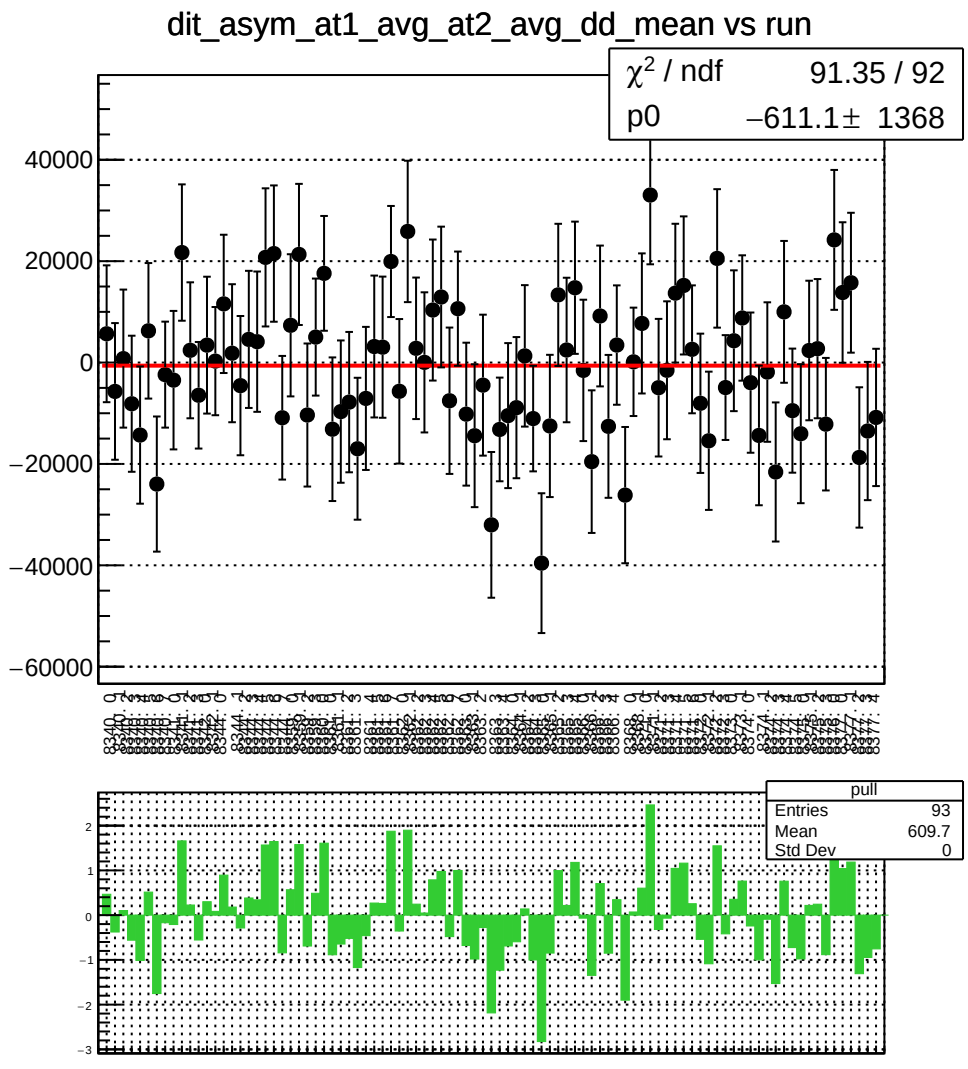

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

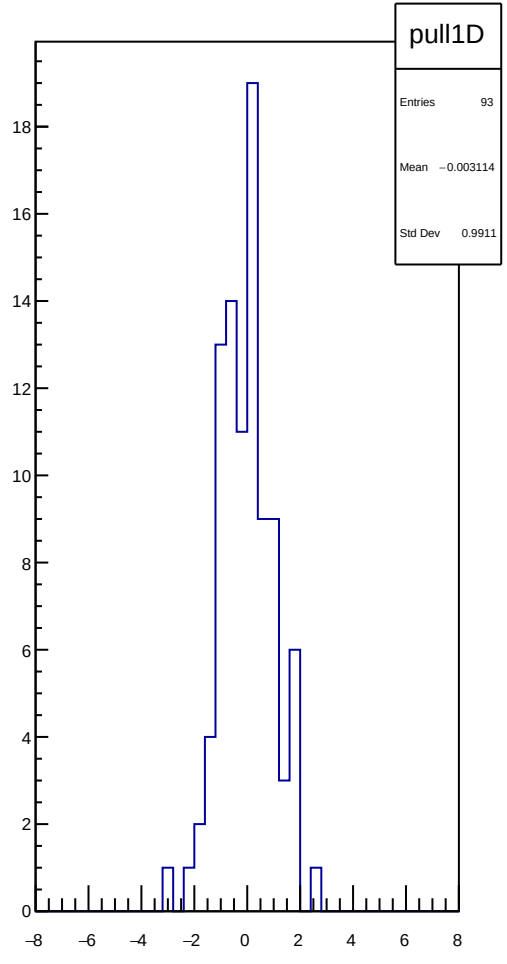

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

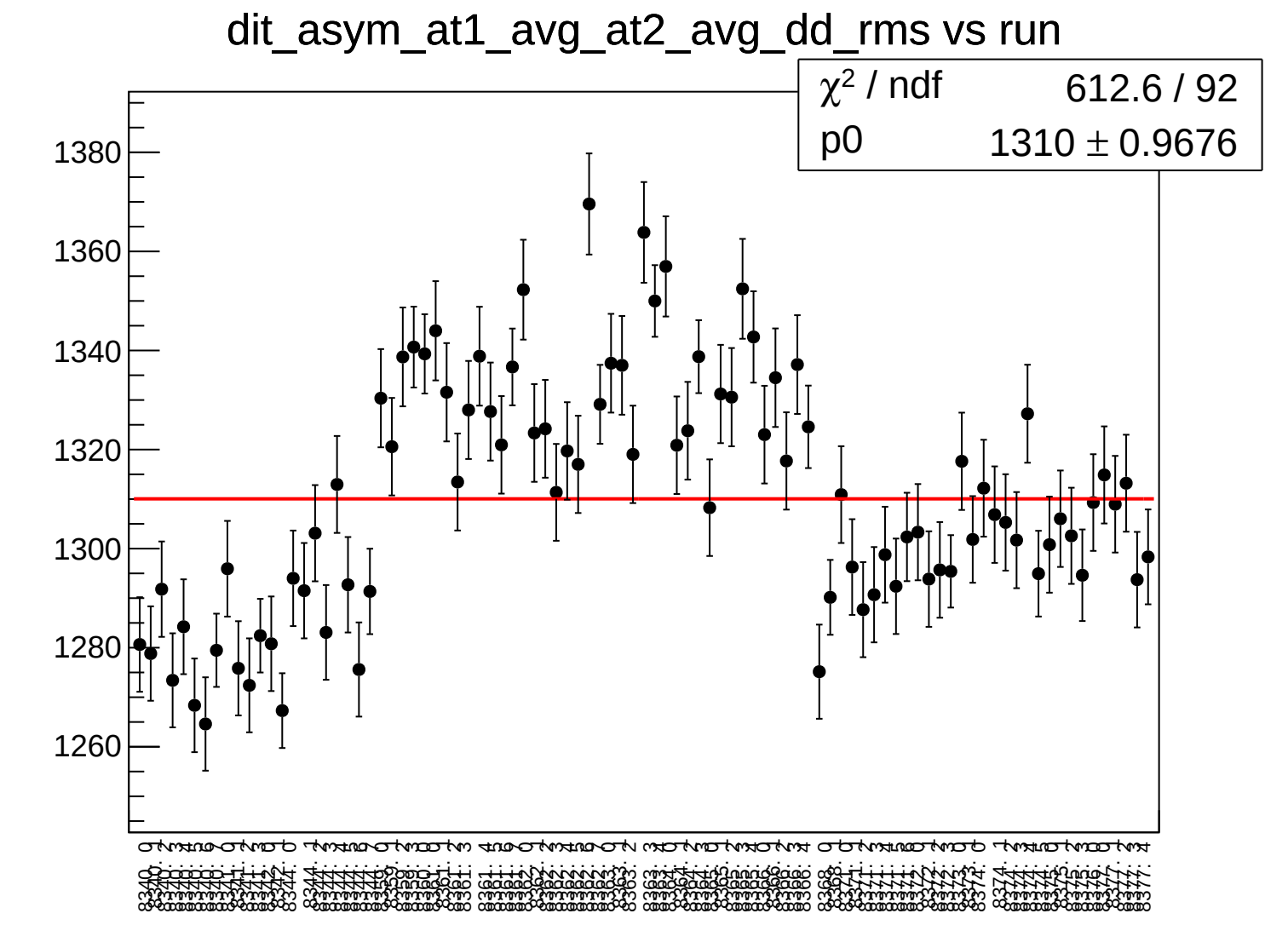

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.5
Std Dev 0

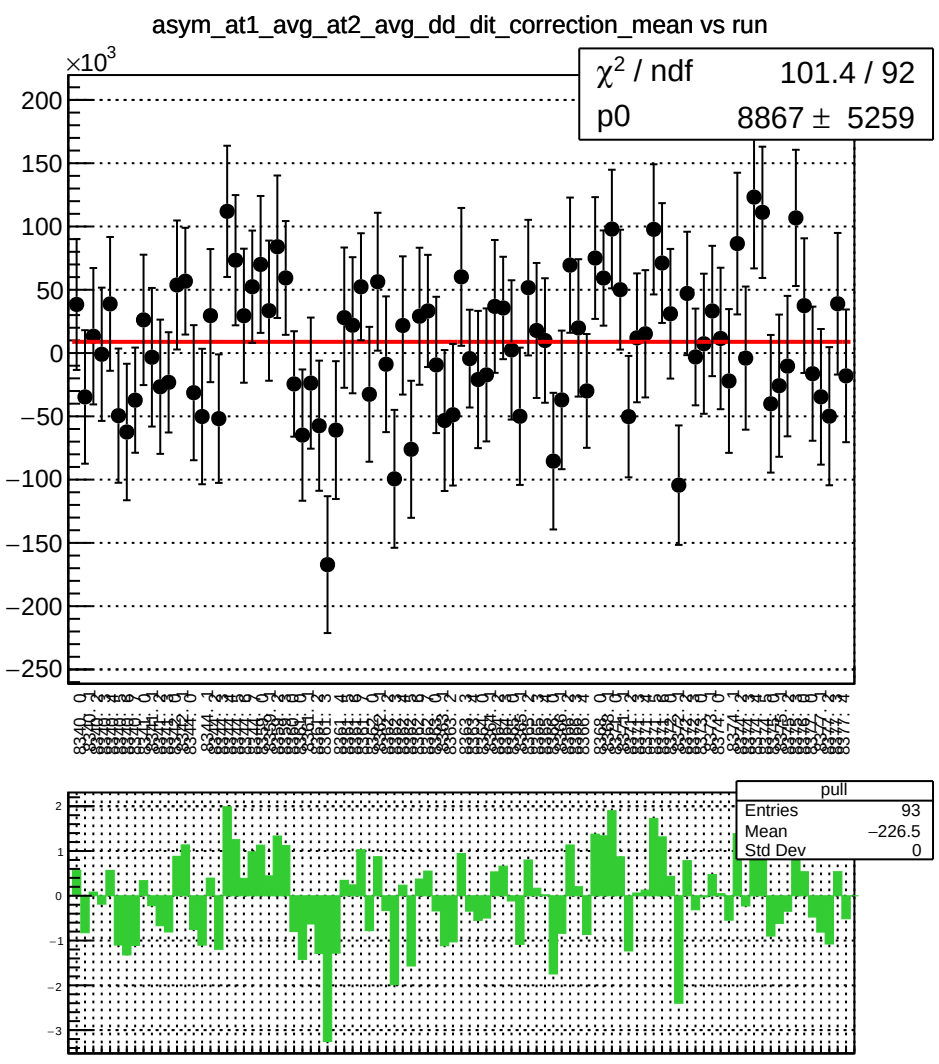

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

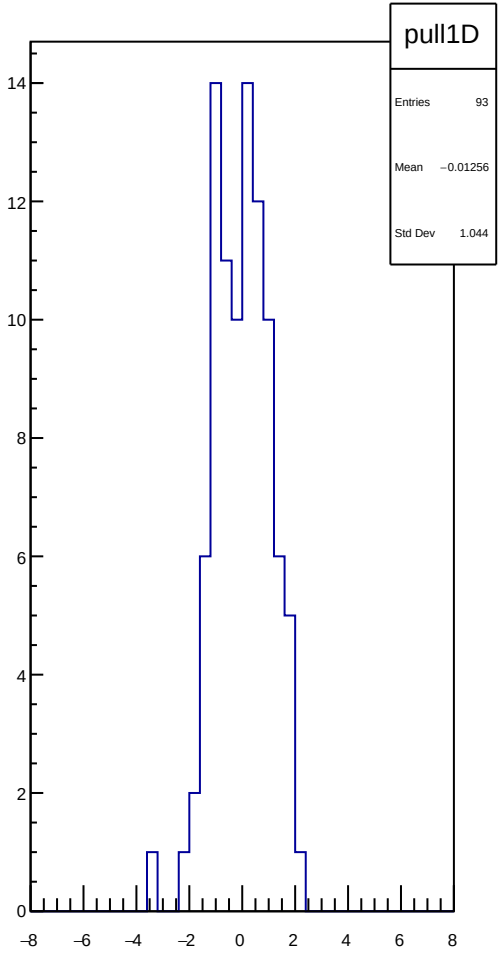

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

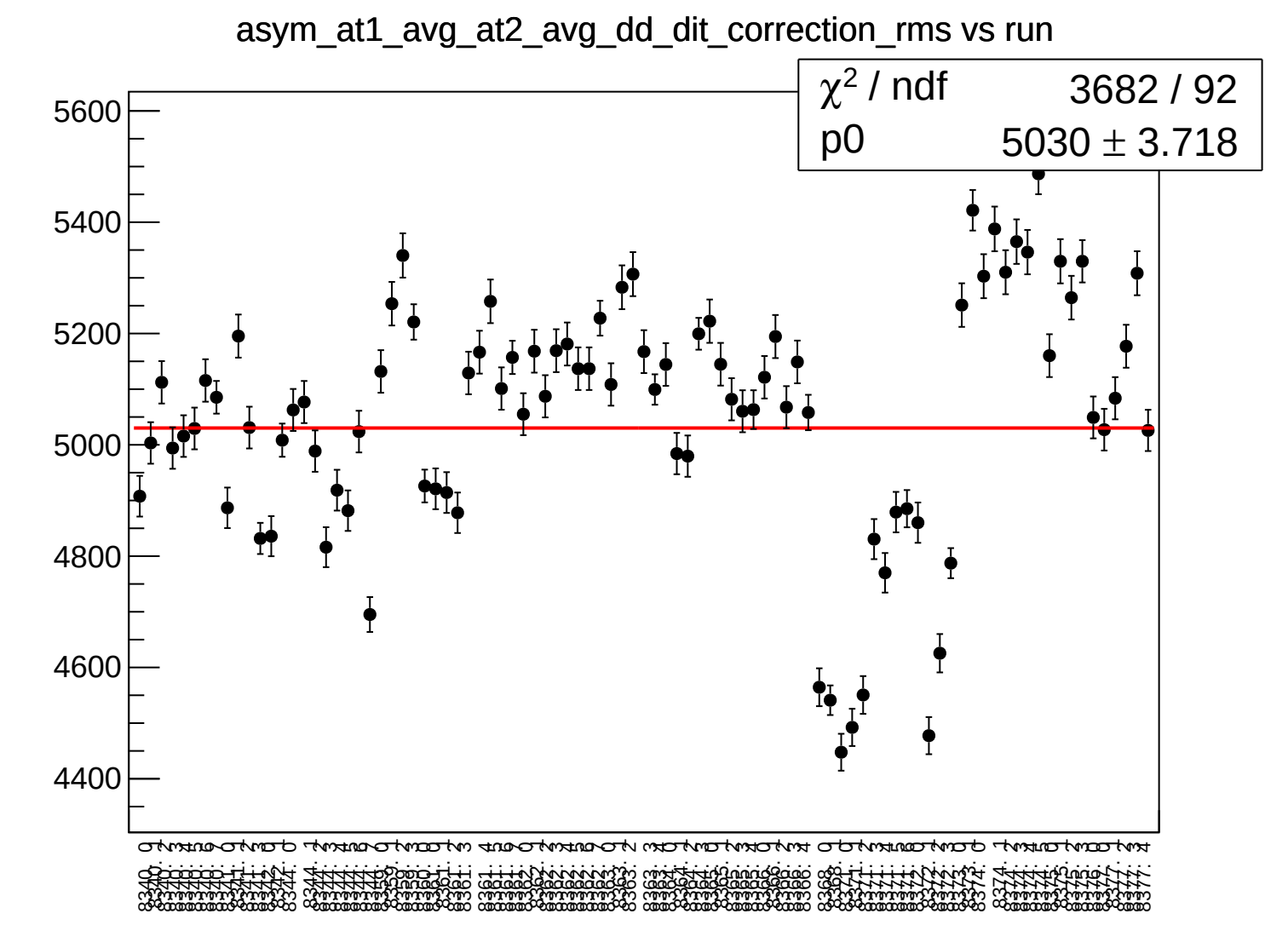

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3

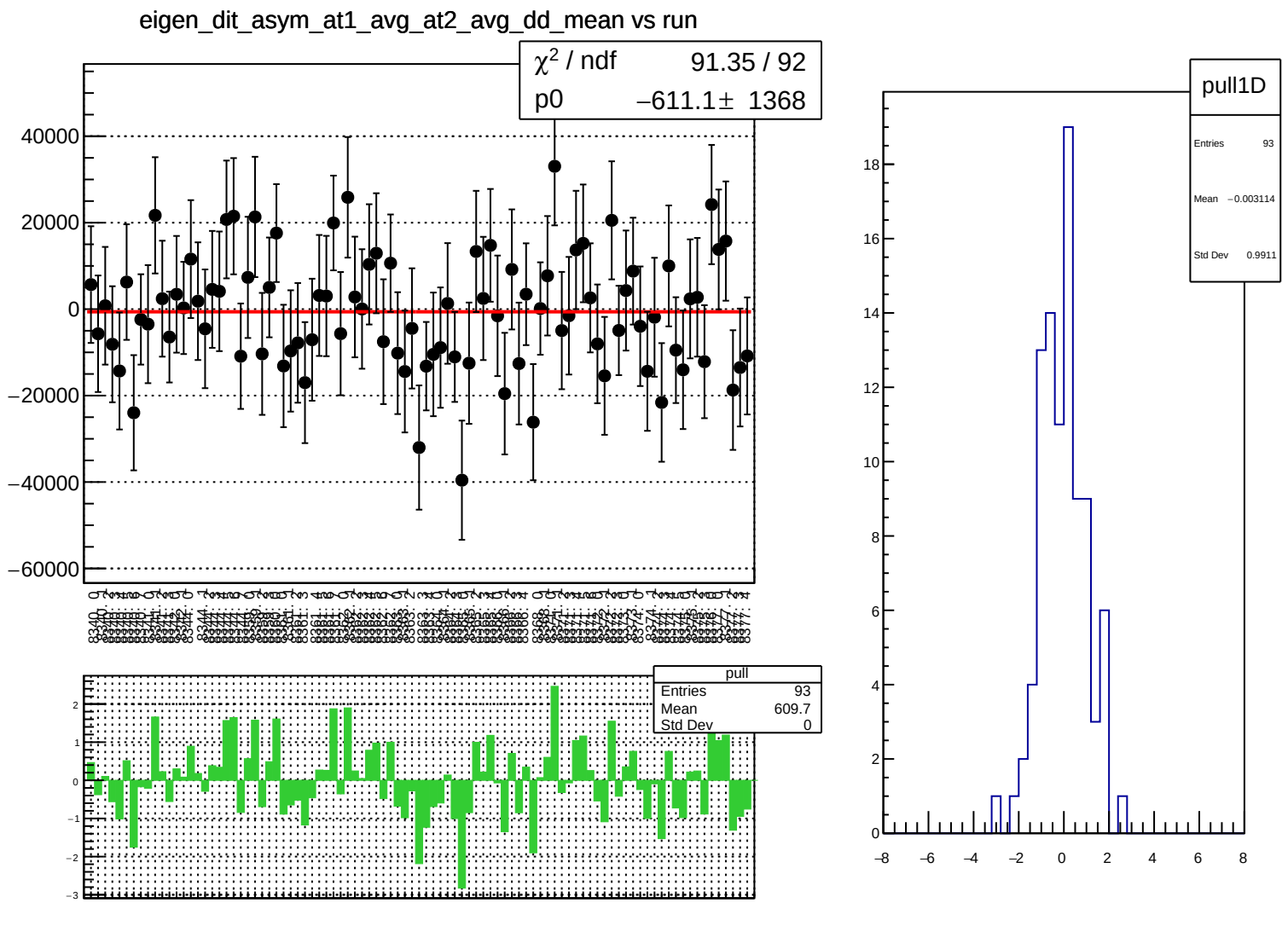

pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

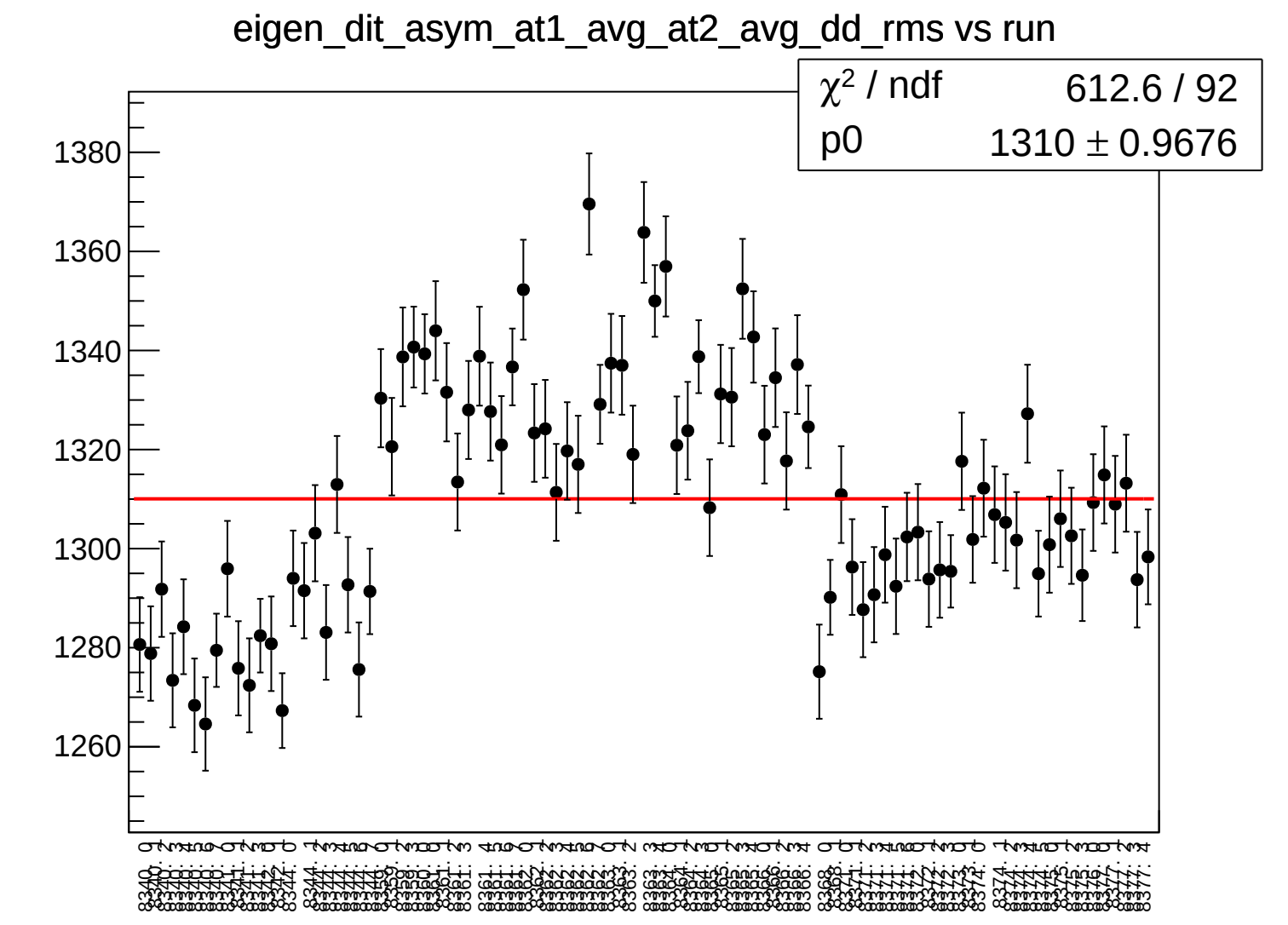

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

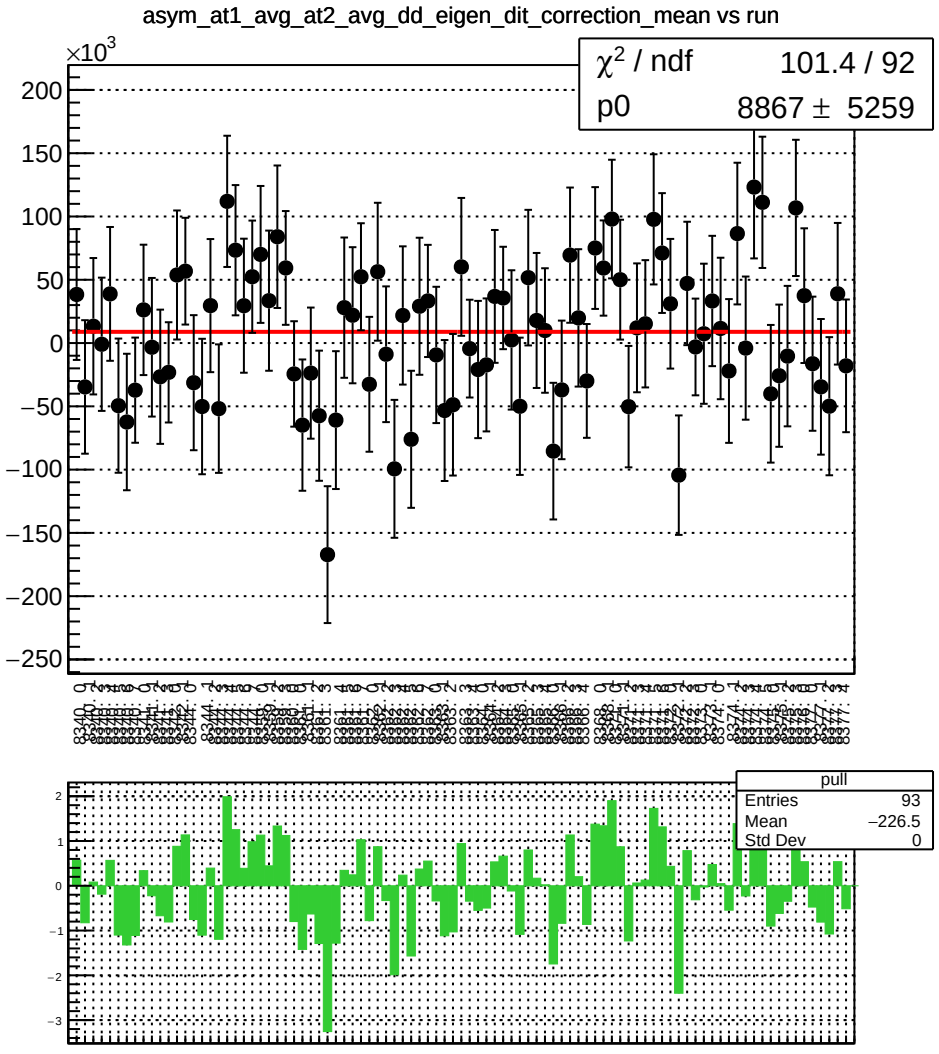

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
pull
Entries 93
Mean −226.5
Std Dev 0

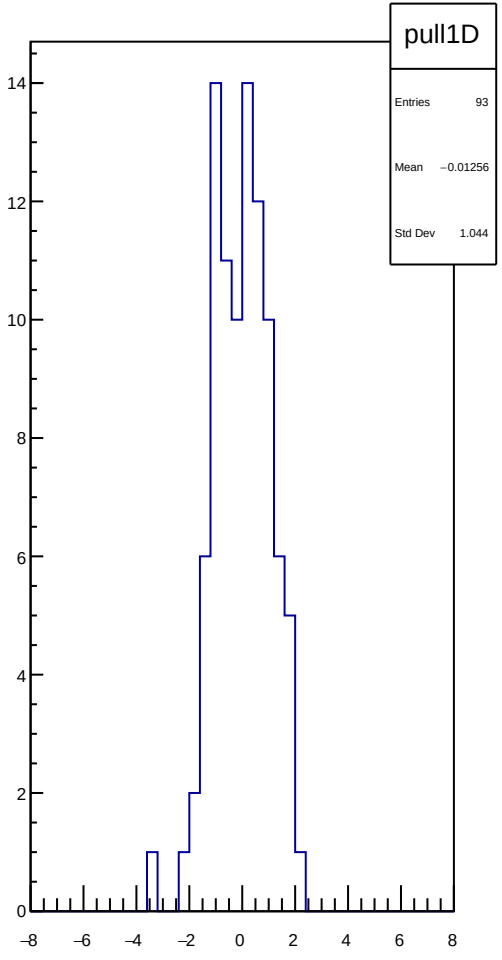

pull1D
Entries 93
Mean −0.01256
Std Dev 1.044

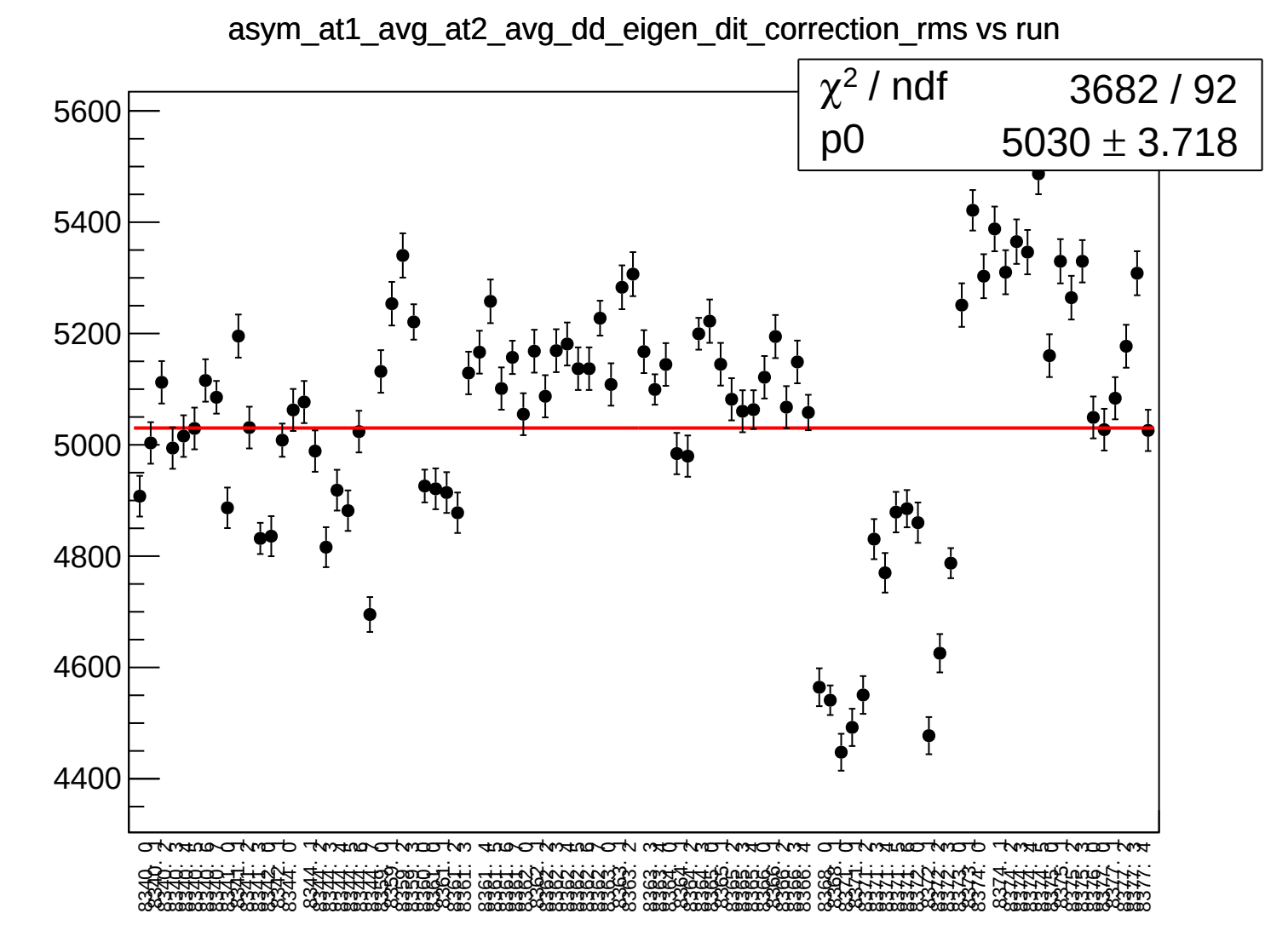

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

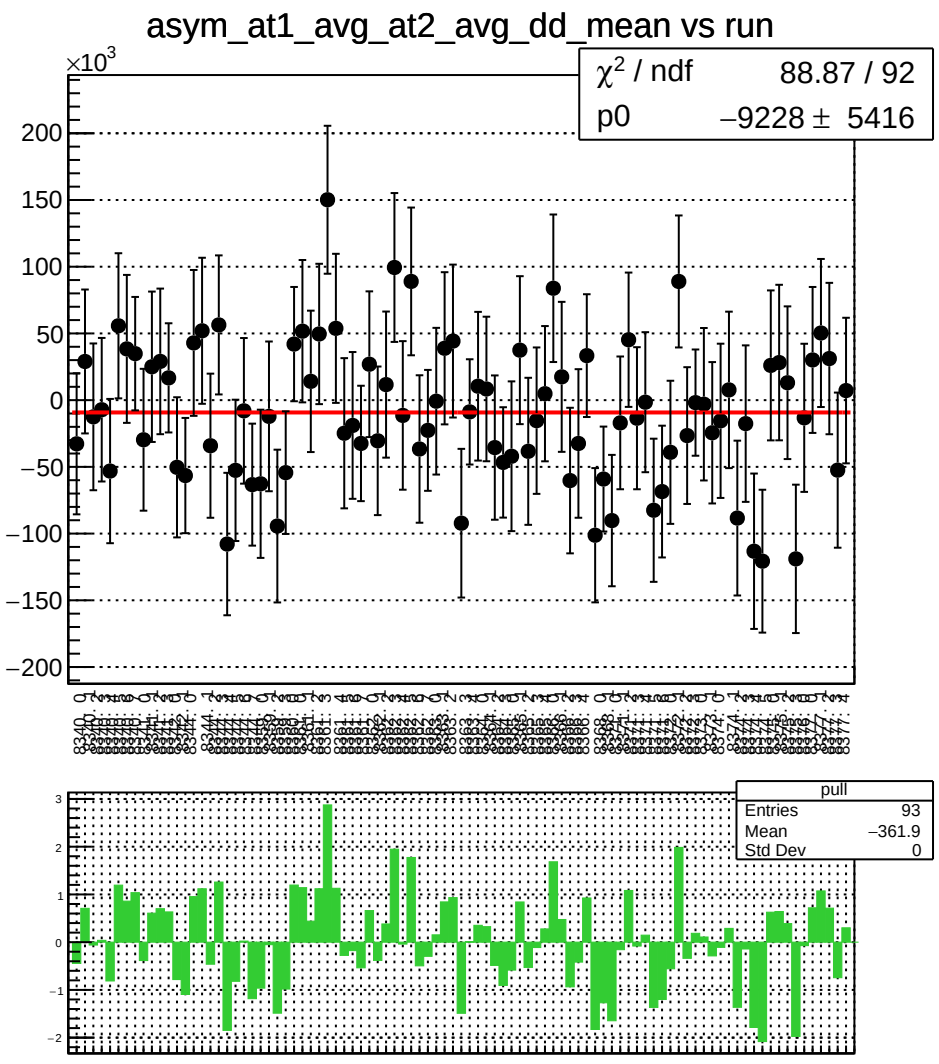

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

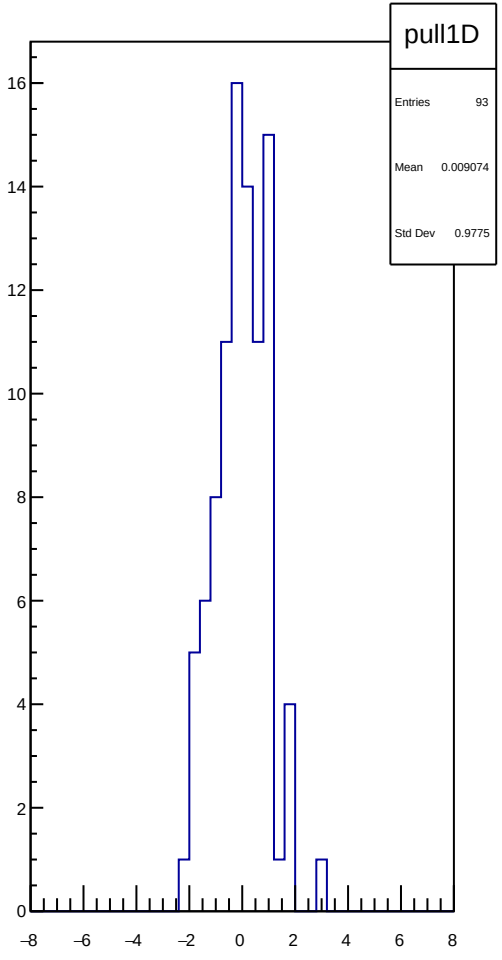

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

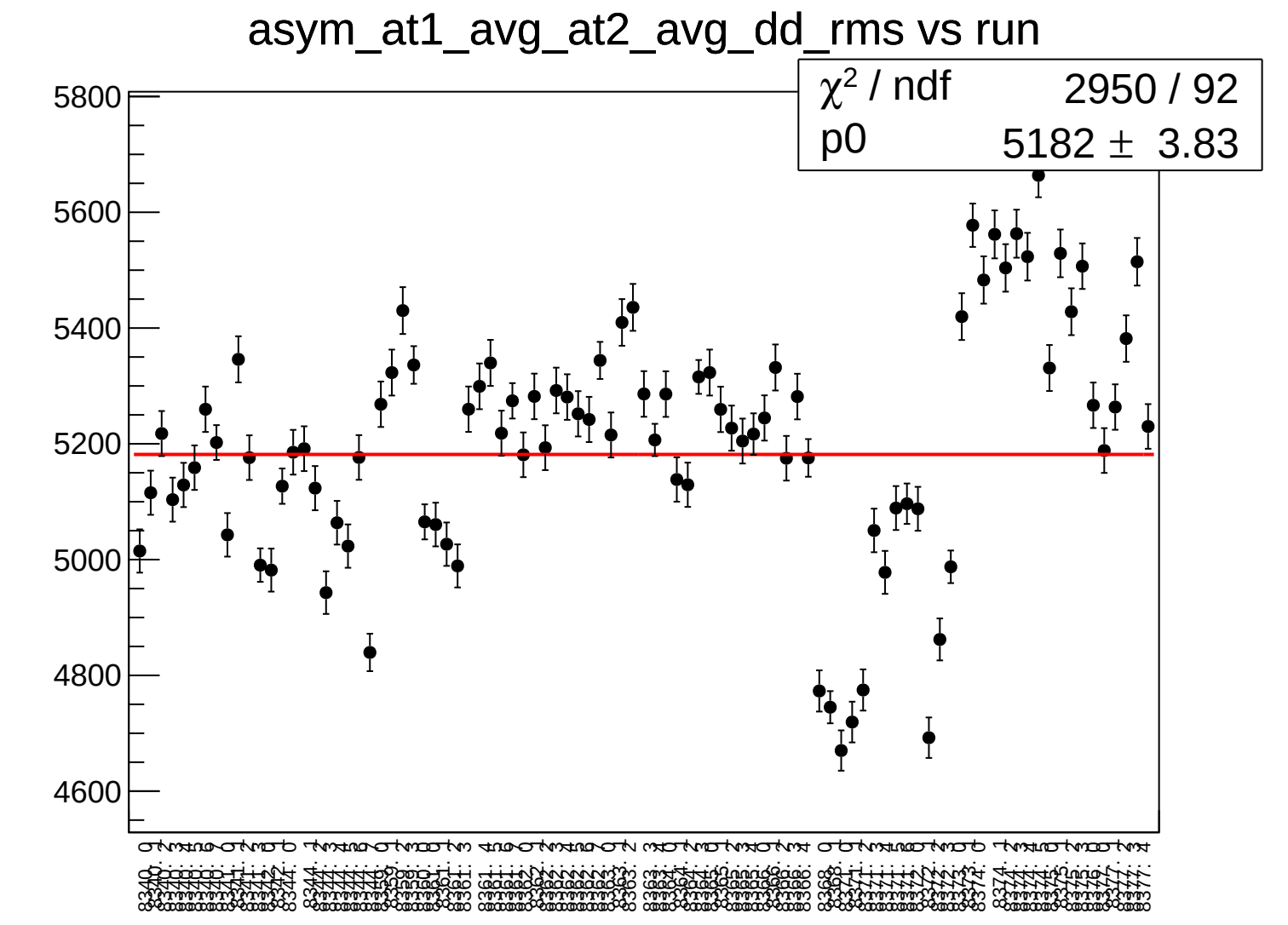

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
pull
Entries 93
Mean −226.5
Std Dev 0

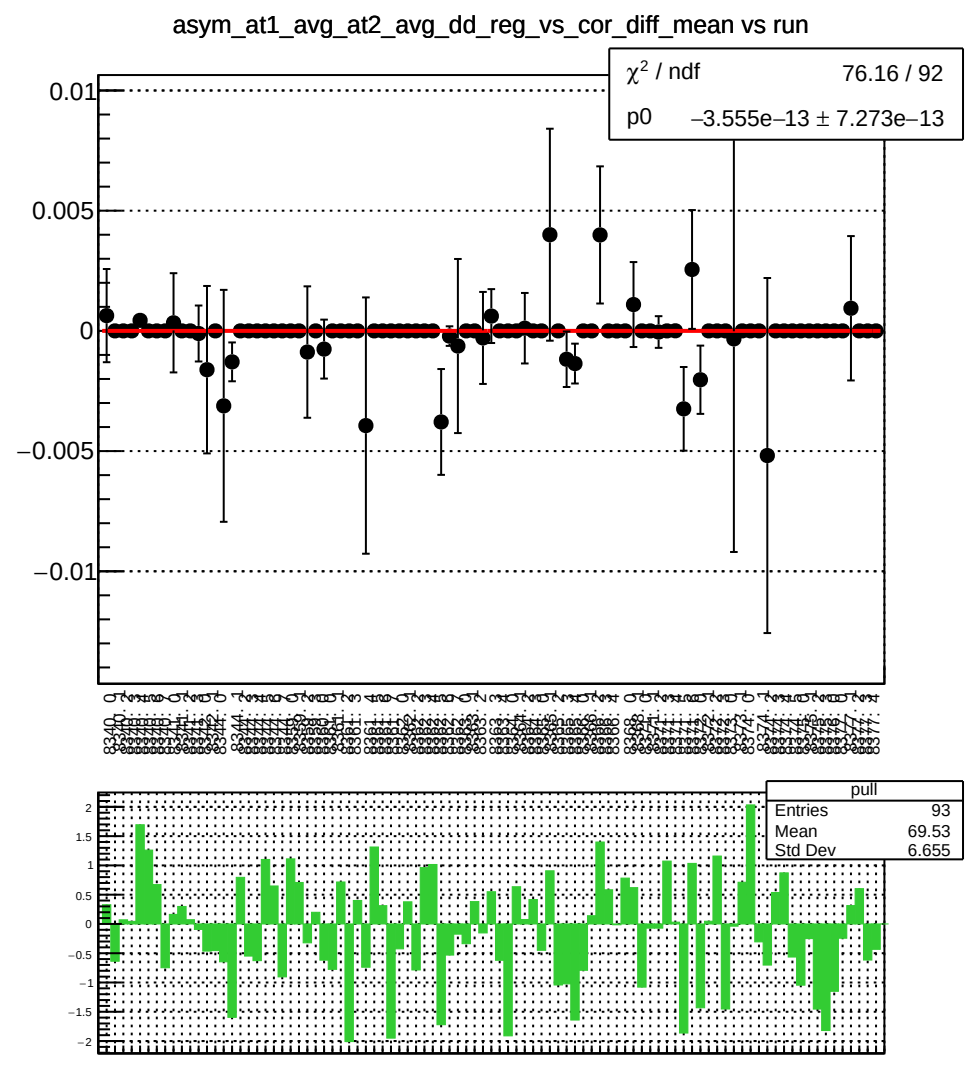

pull1D
Entries 93
Mean −0.01256
Std Dev 1.044

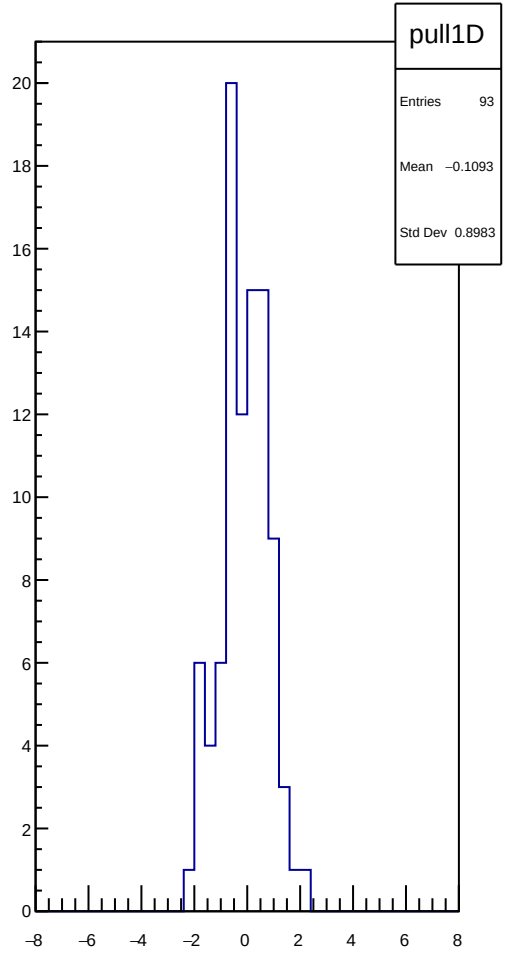

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

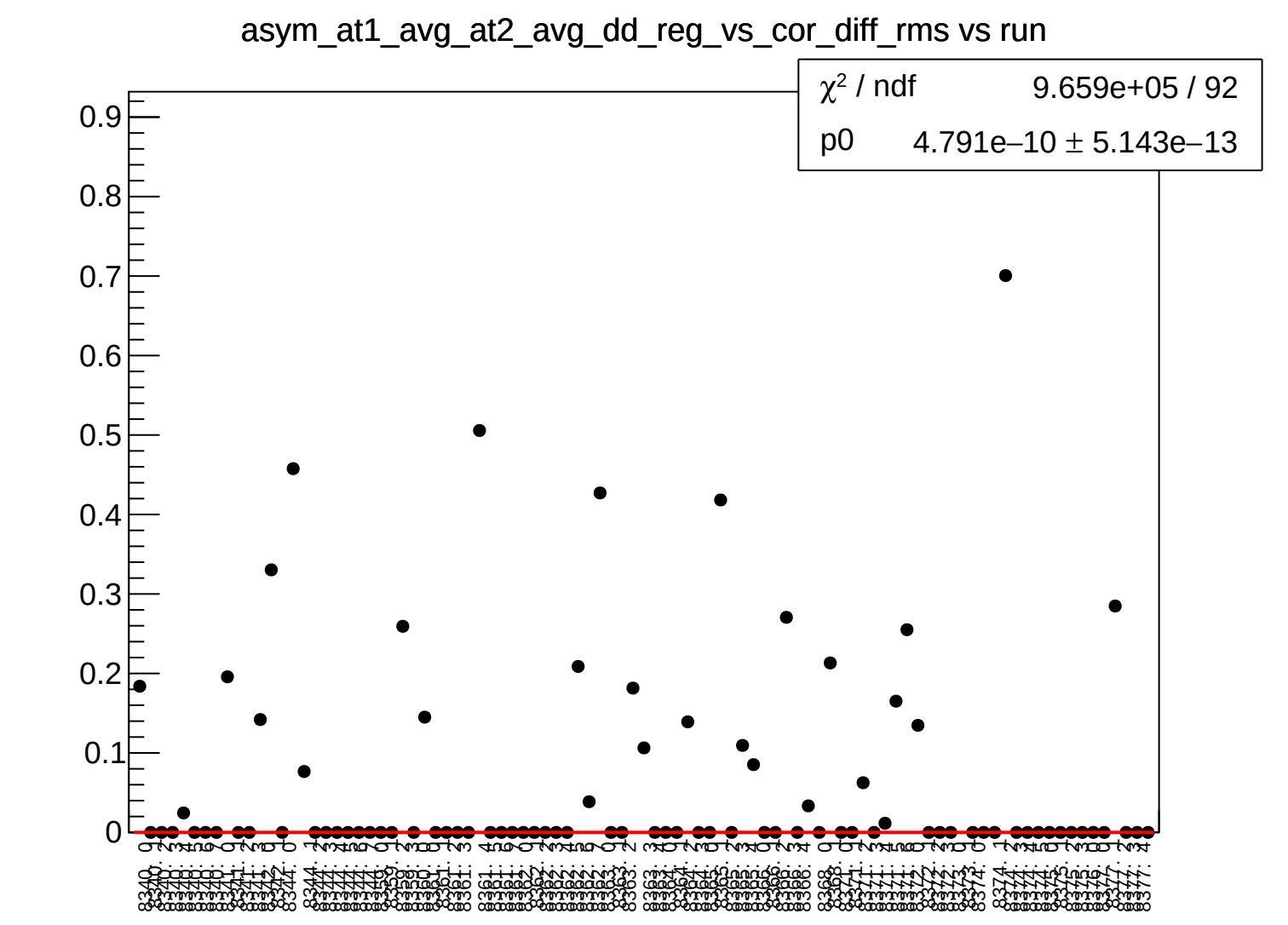

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 88.87 / 92
p0 −9228 ± 5416
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −361.9
Std Dev 0
3
2
1
0
−1
−2

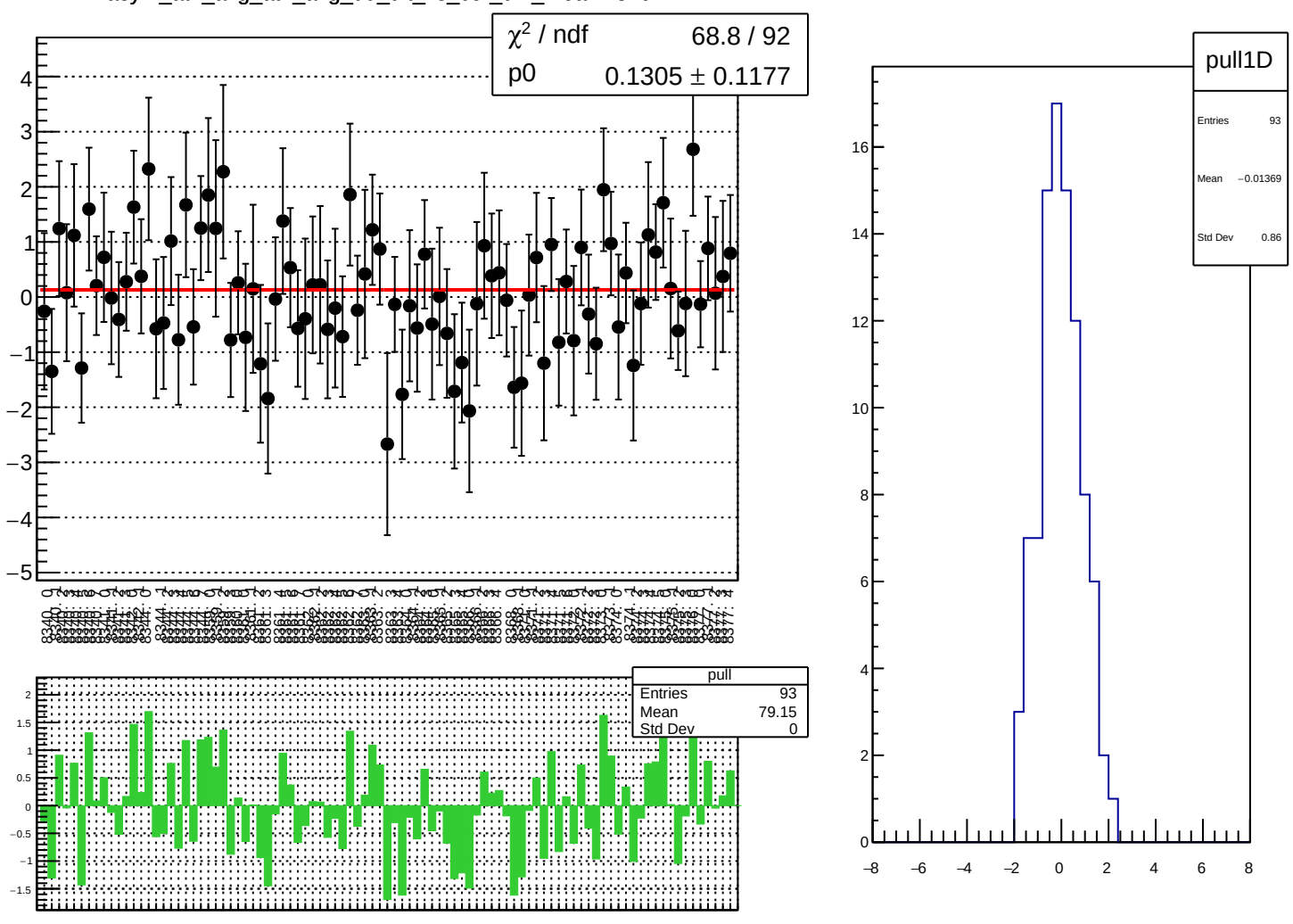

pull1D
Entries 93
Mean 0.009074
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

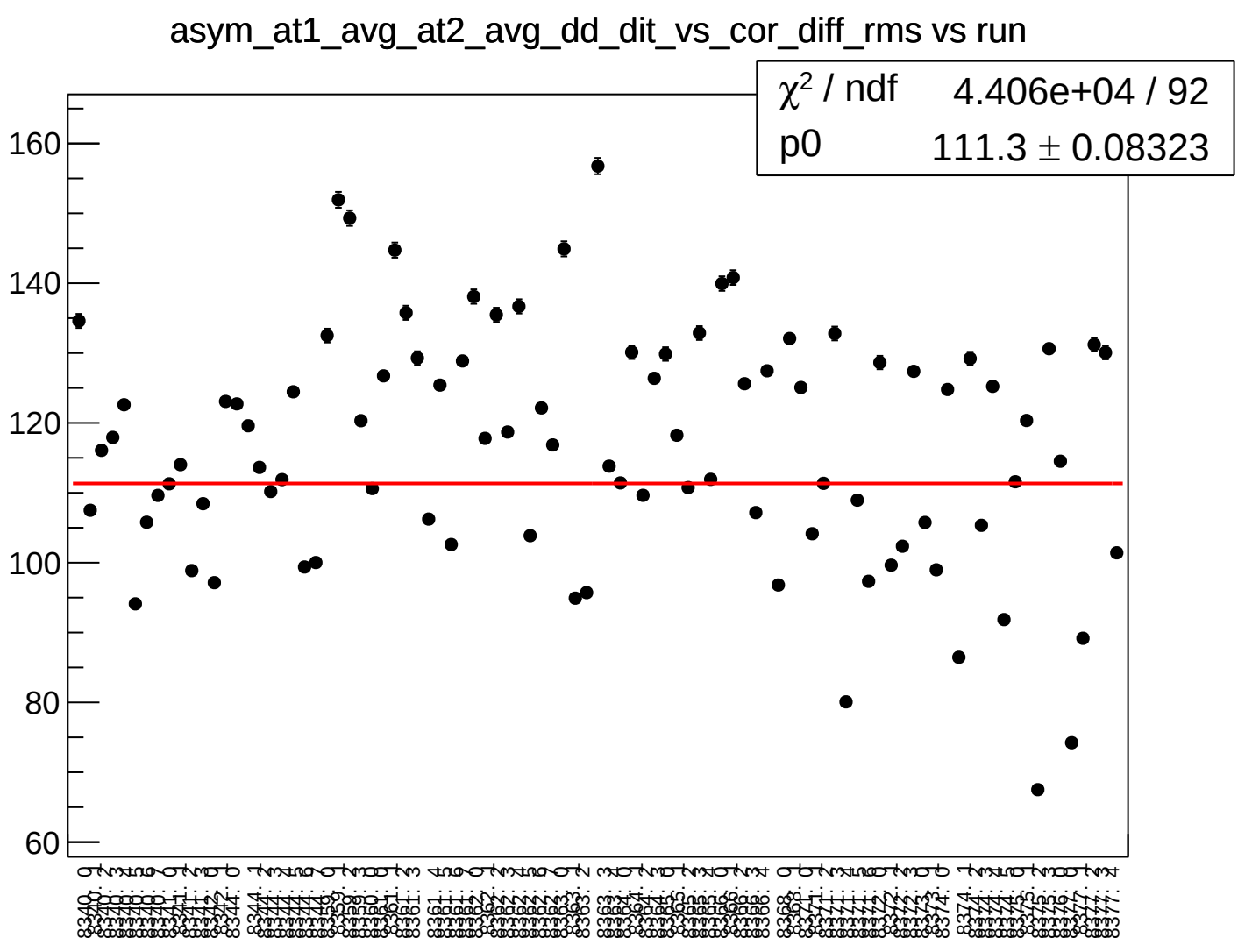

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2950 / 92
p0 5182 ± 3.83
5800
5600
5400
5200
5000
4800
4600

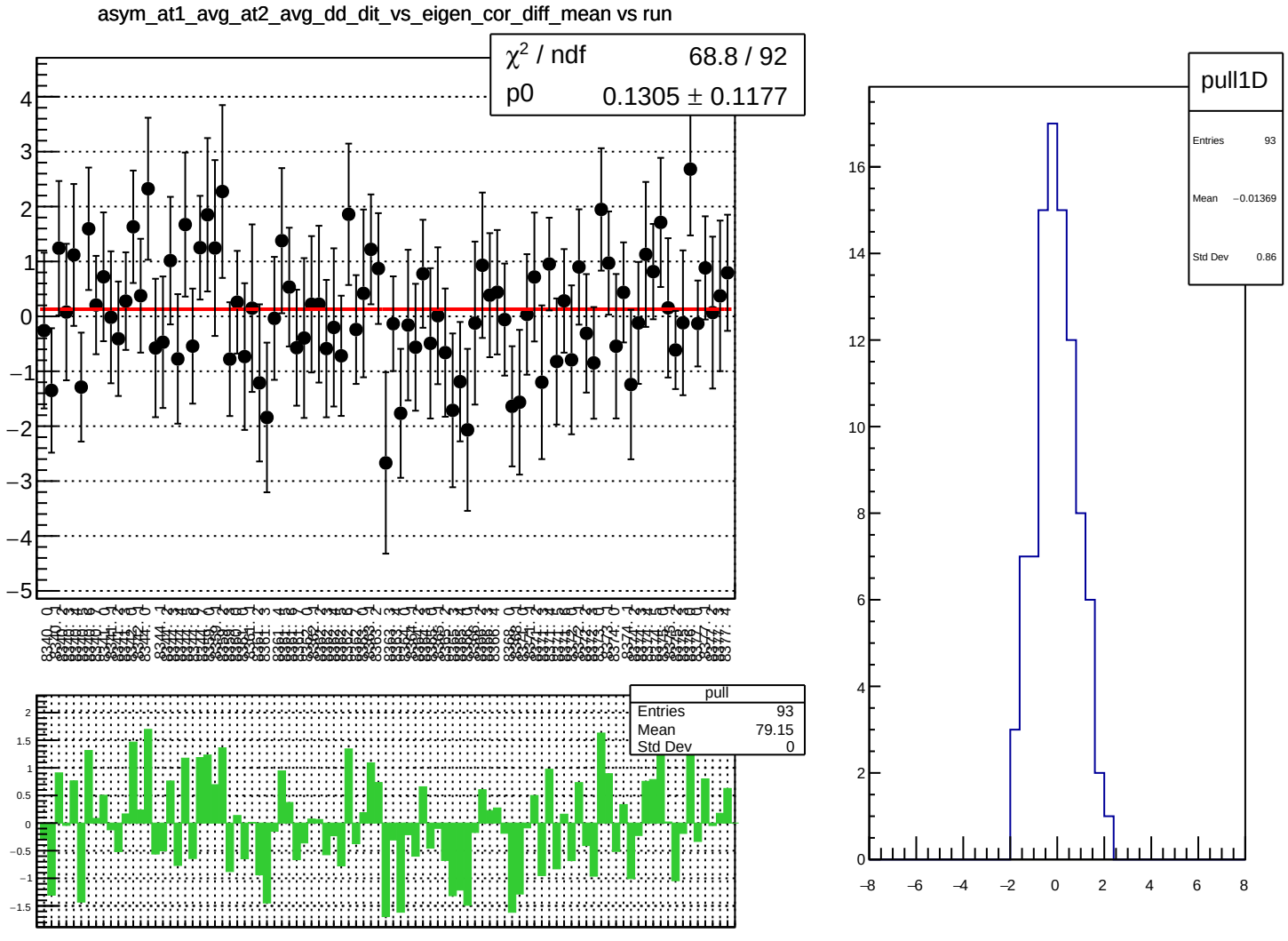

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.16 / 92
p0 −3.555e−13 ± 7.273e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 69.53
Std Dev 6.655
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

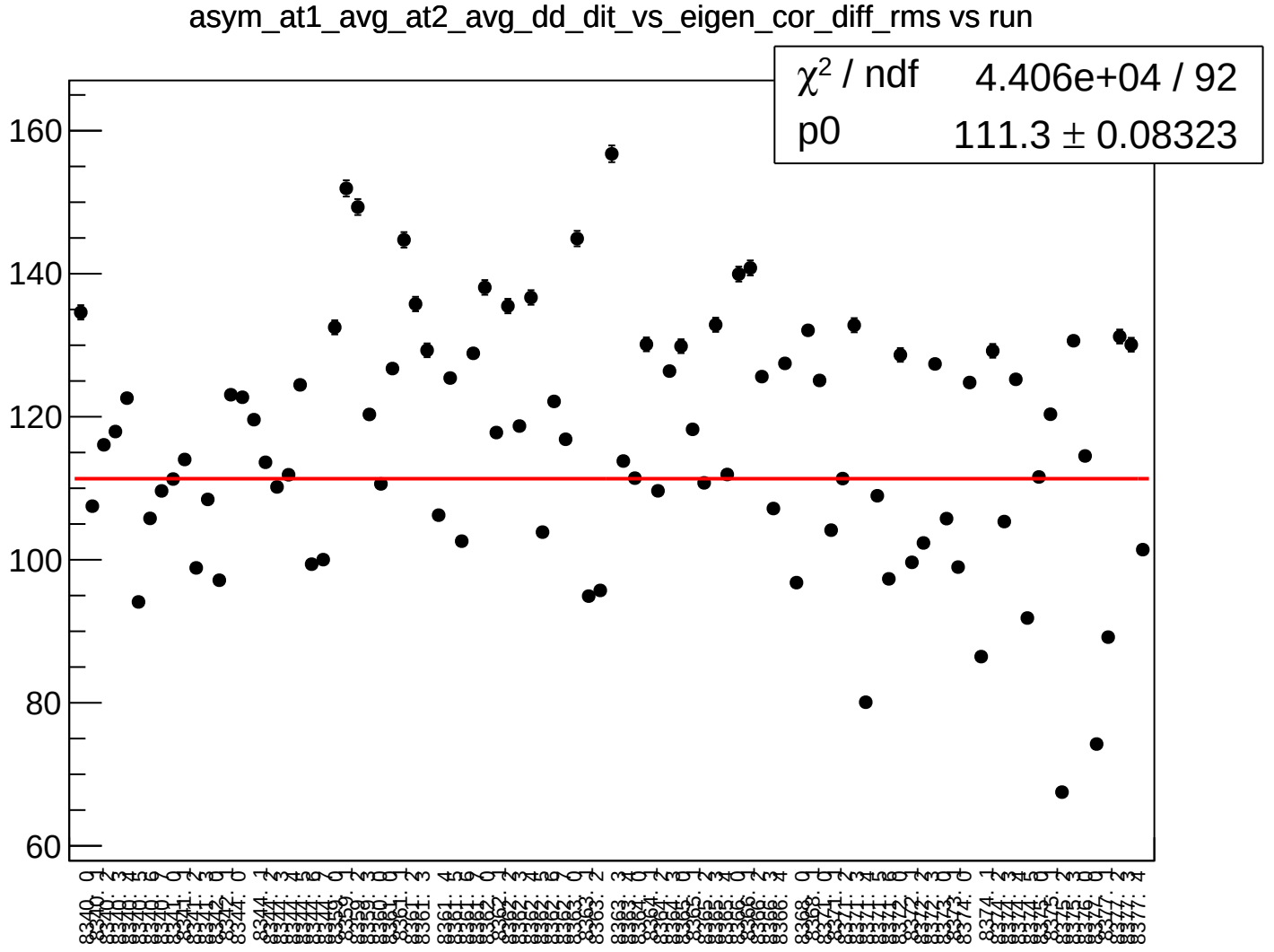

pull1D
Entries 93
Mean −0.1093
Std Dev 0.8983
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

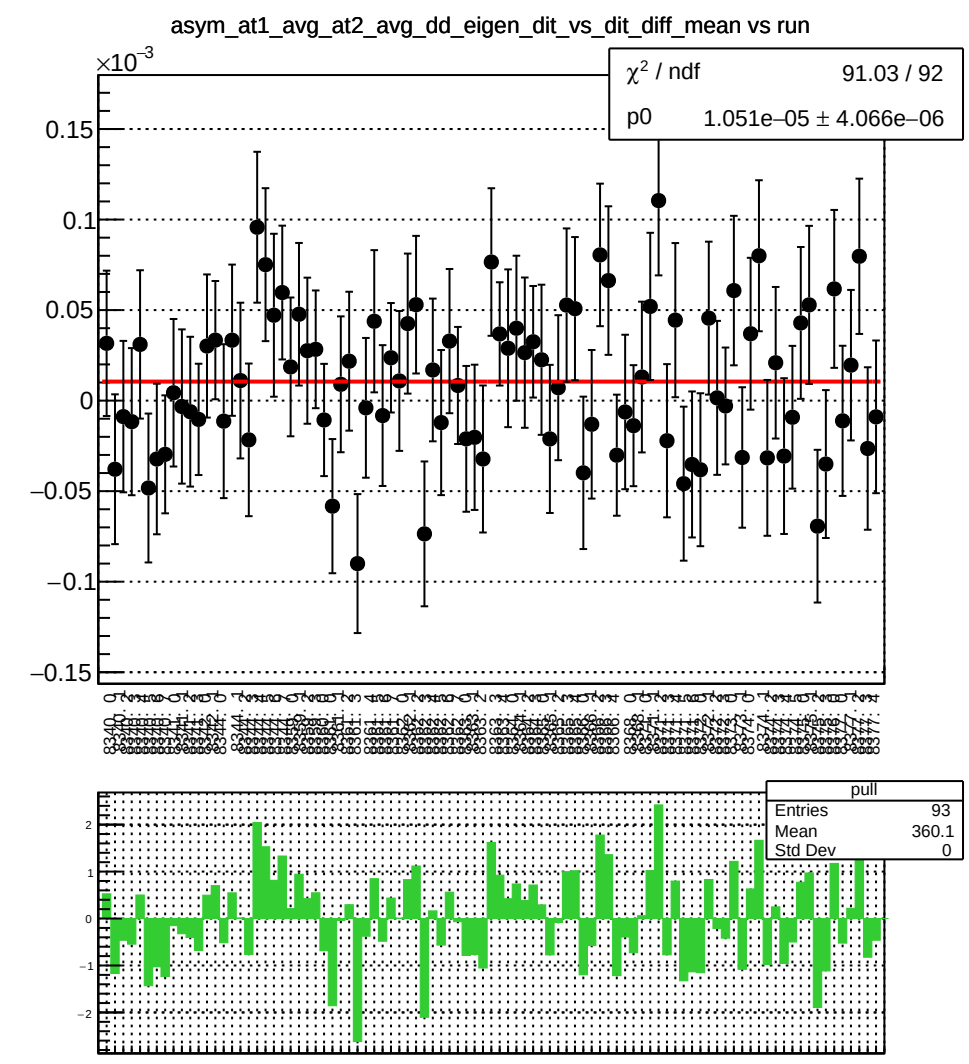

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.659e+05 / 92
p0 4.791e−10 ± 5.143e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

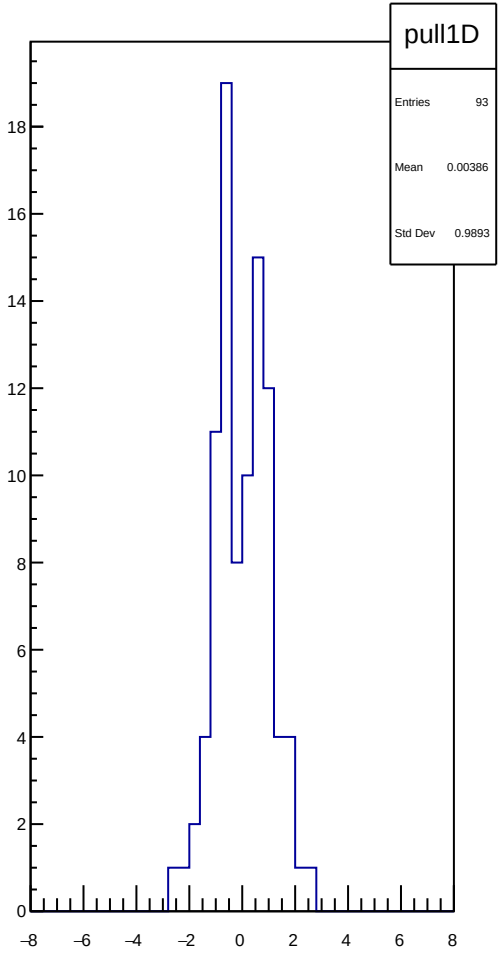

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

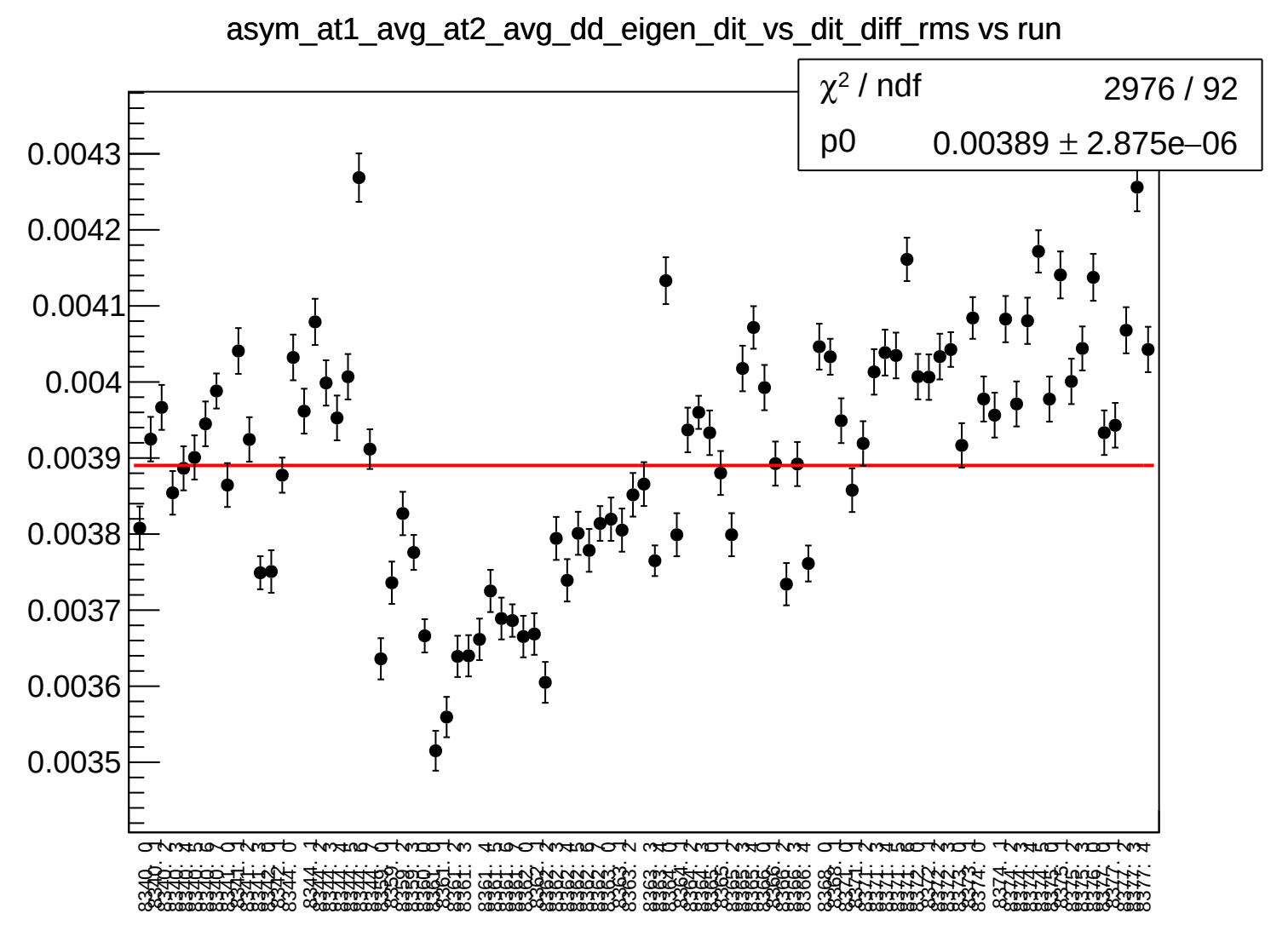

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

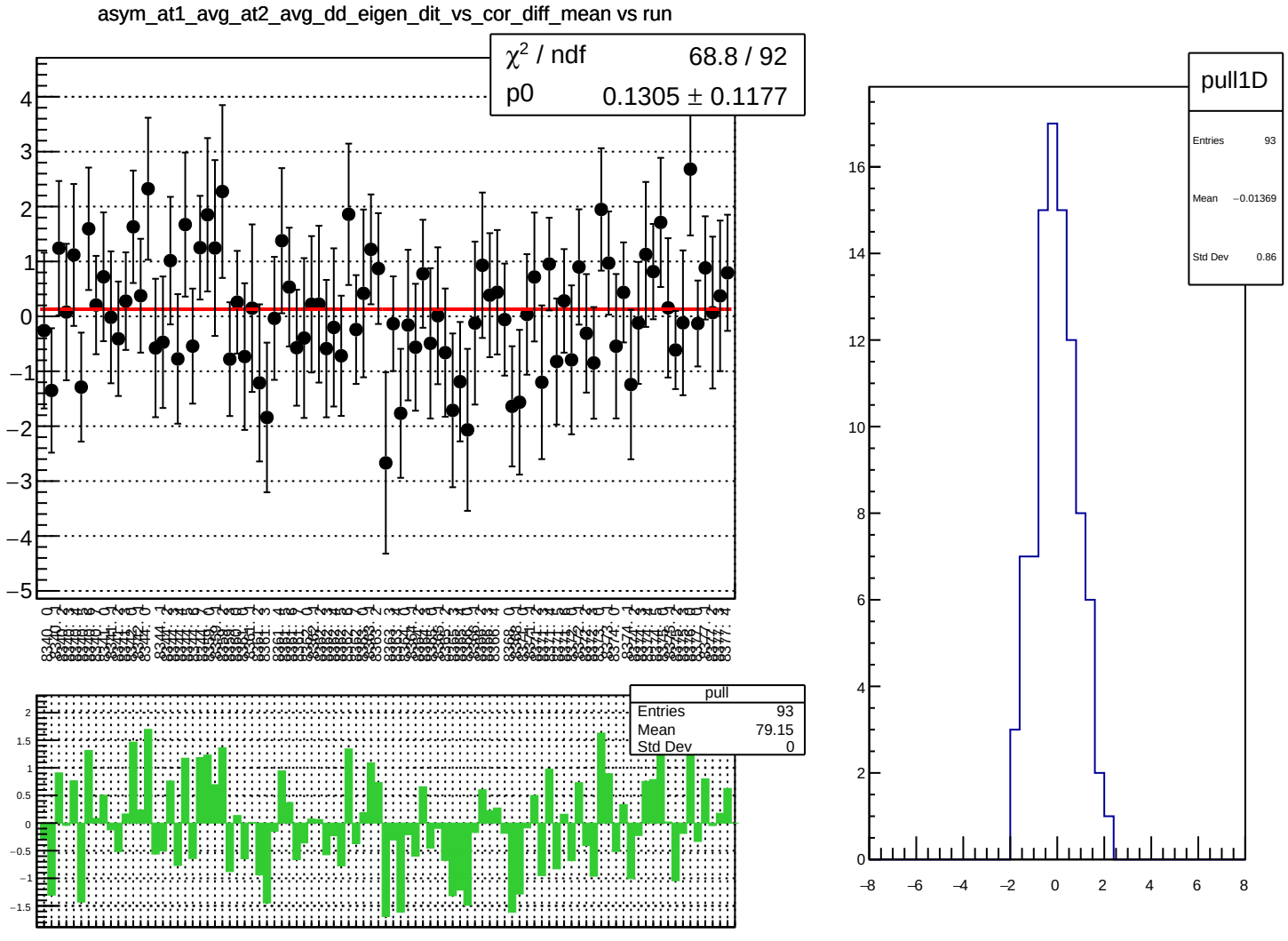

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

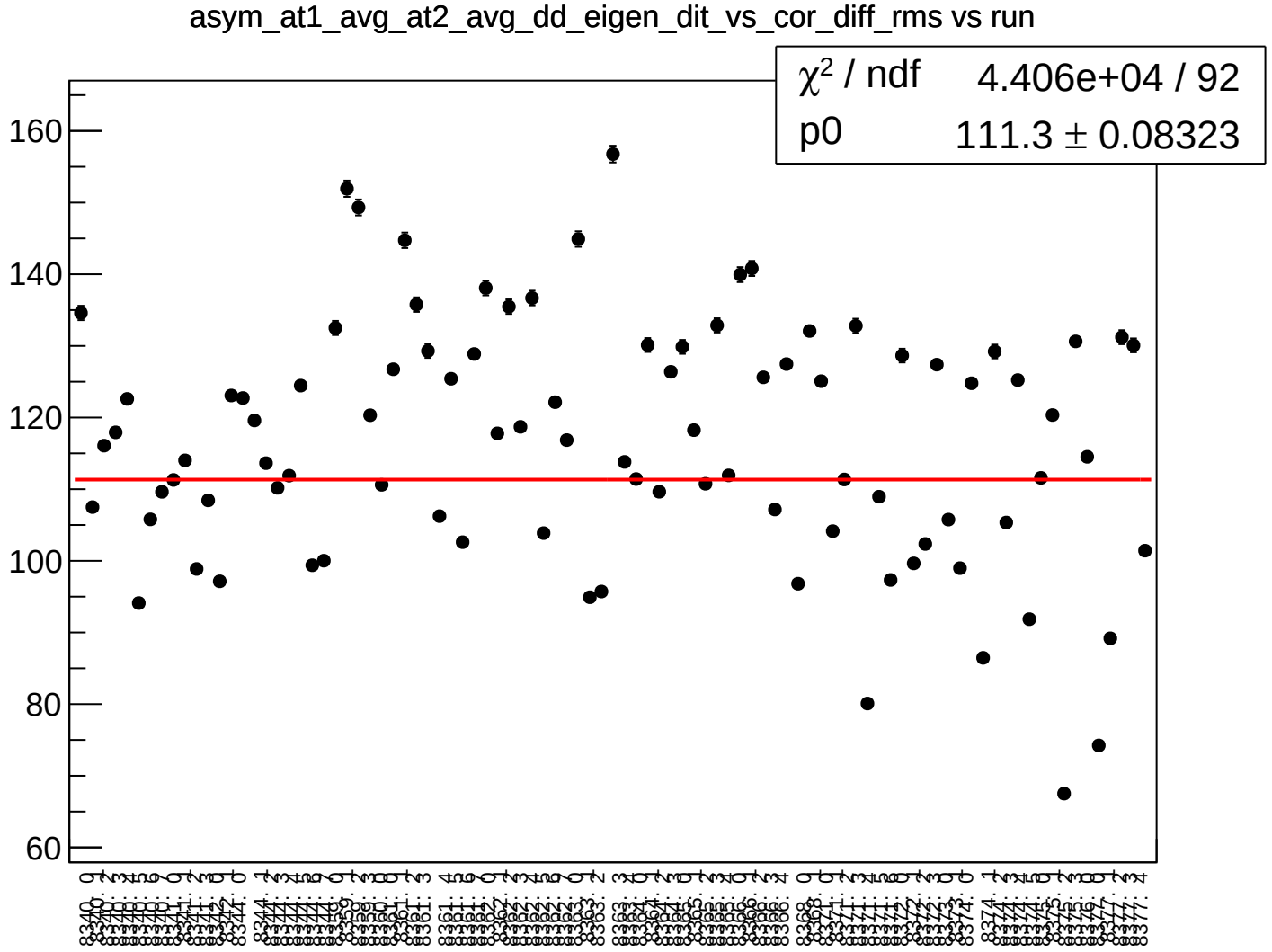

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

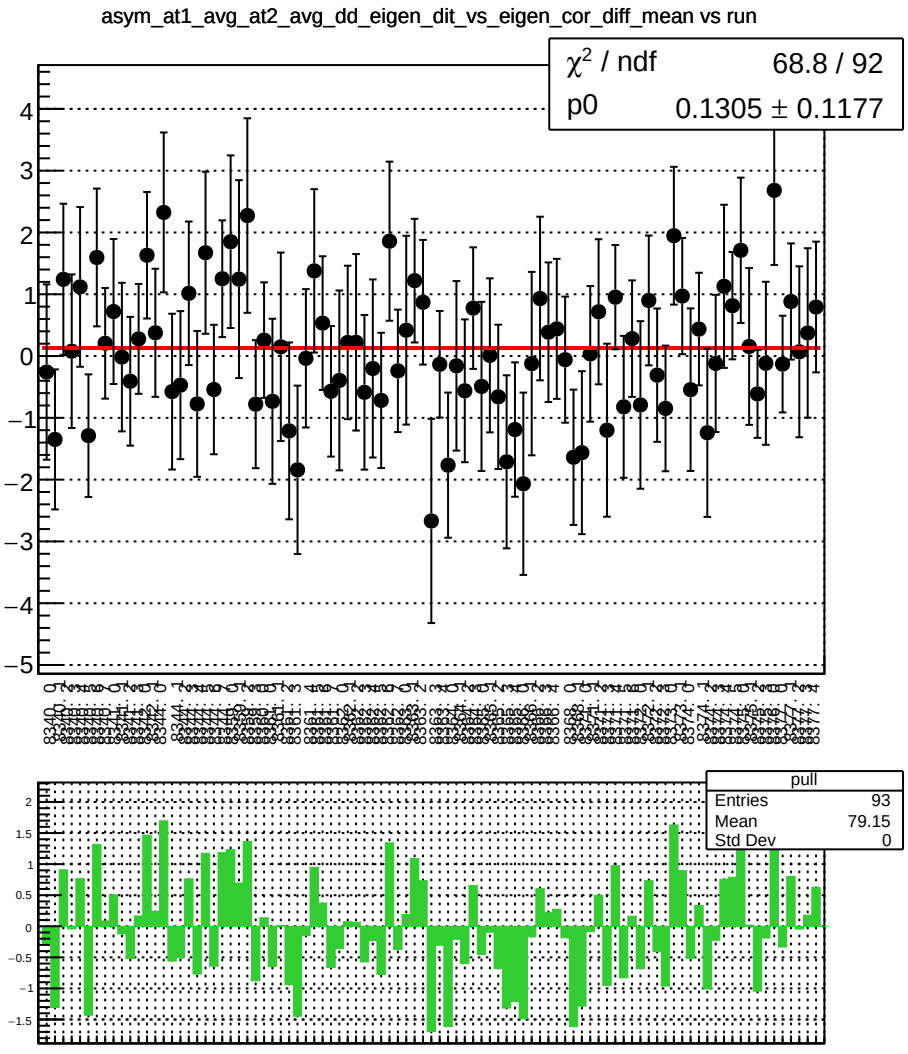

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.03 / 92
p0 1.051e−05 ± 4.066e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 360.1
Std Dev 0
2
1
0
−1
−2

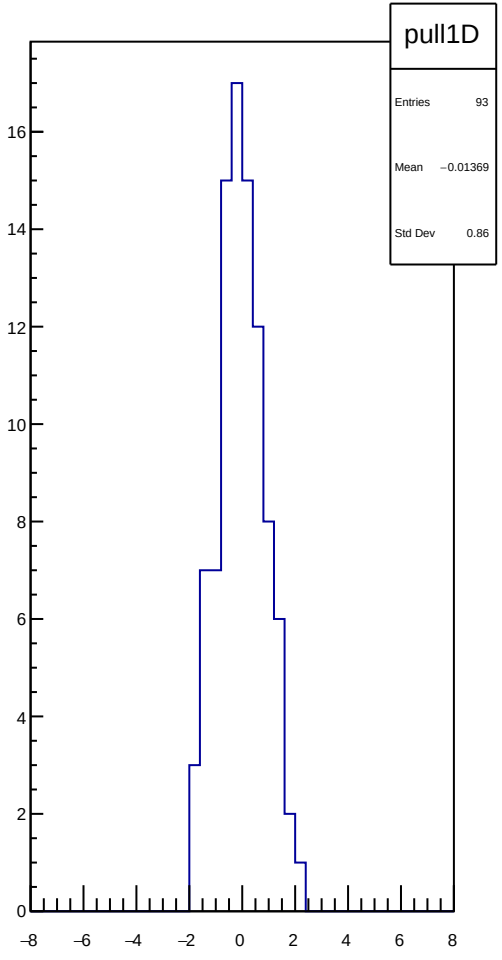

pull1D
Entries 93
Mean 0.00386
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

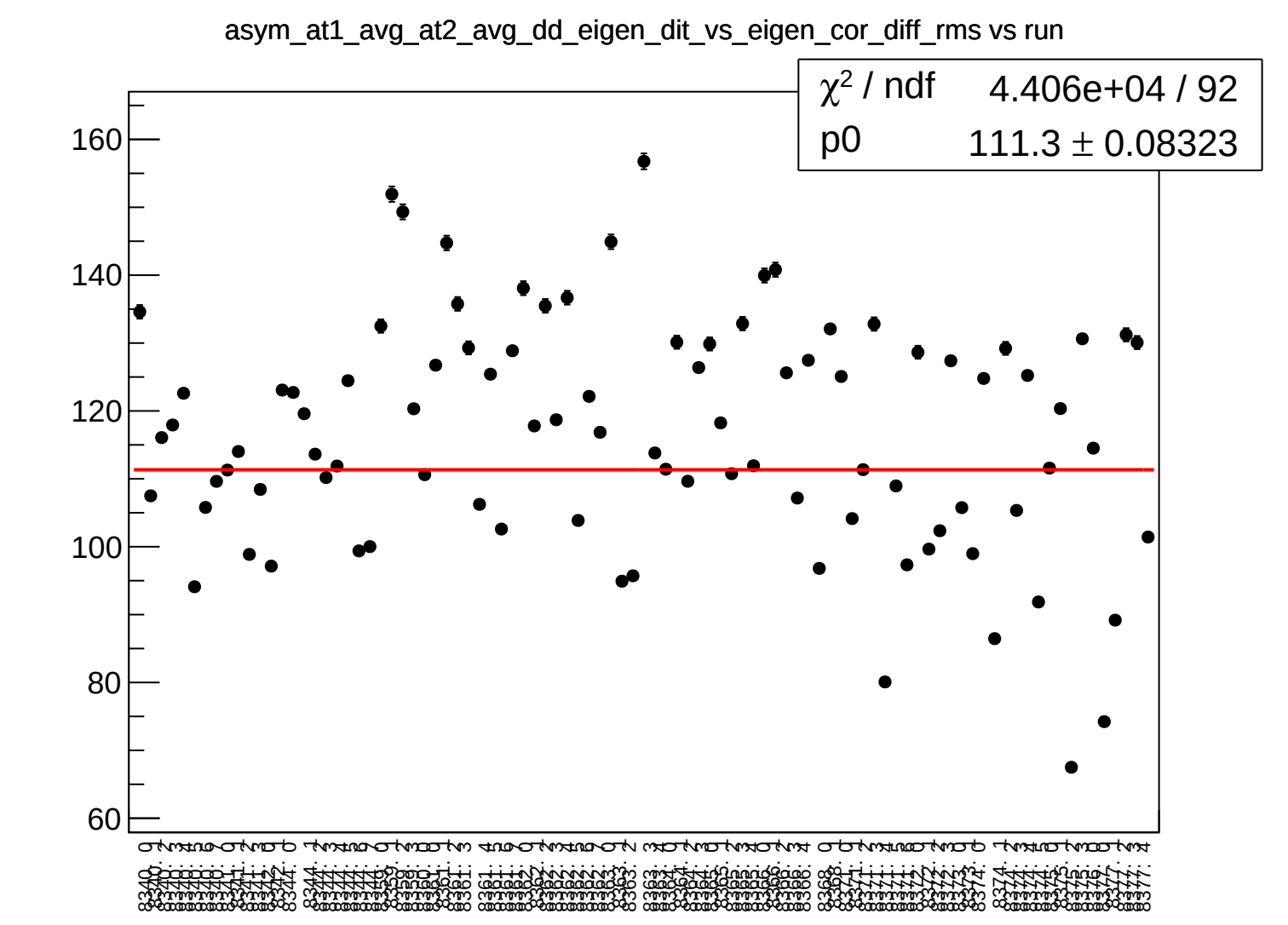

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2976 / 92
p0 0.00389 ± 2.875e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035

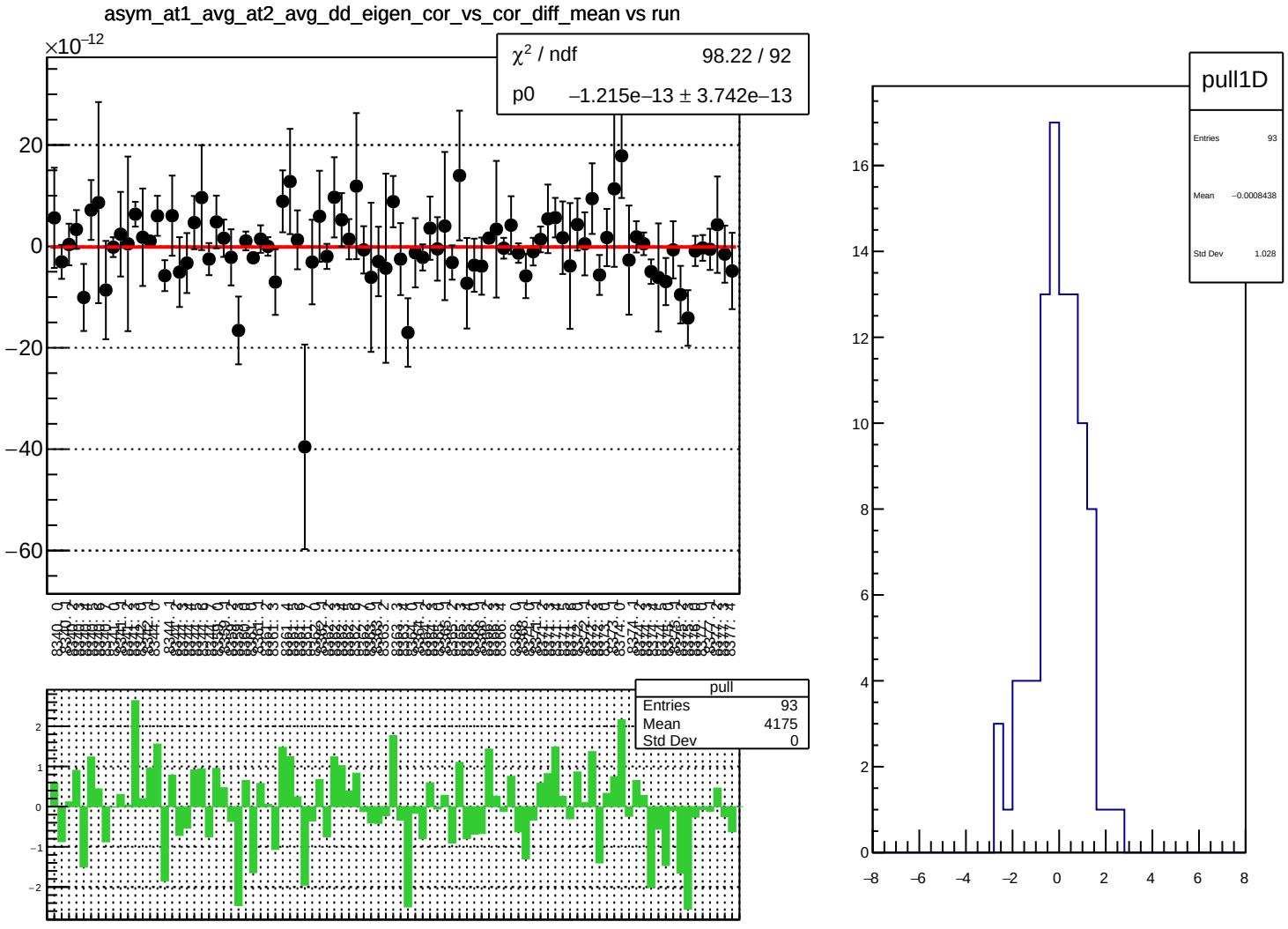

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

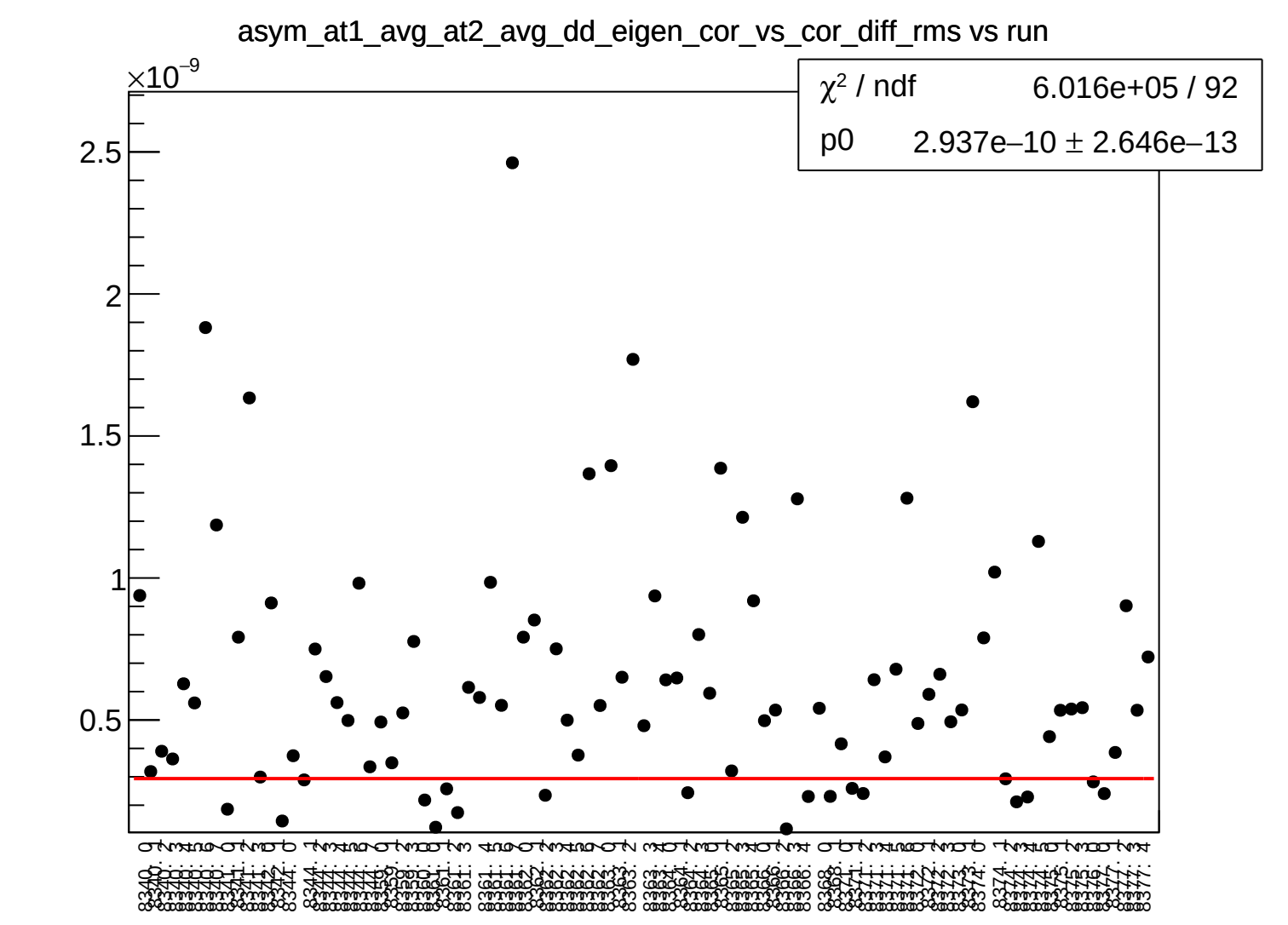

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

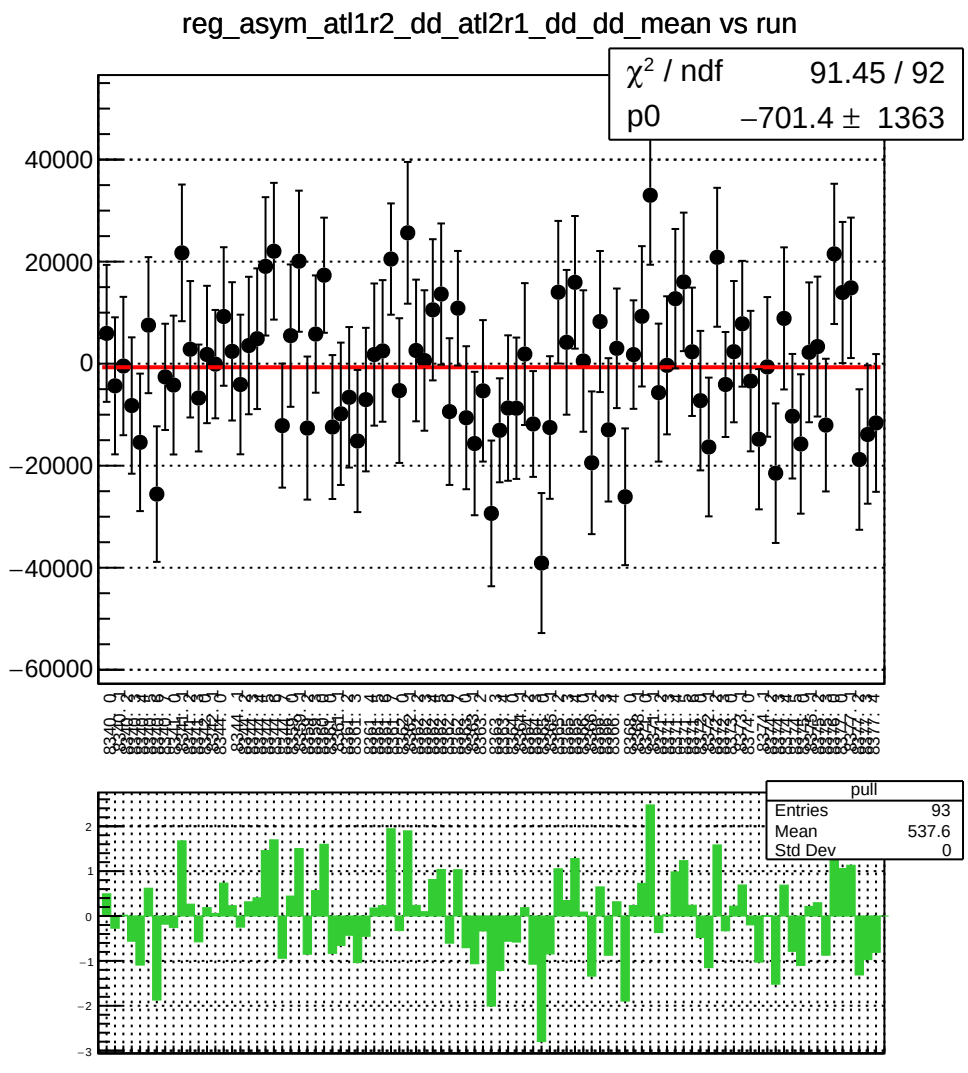

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0

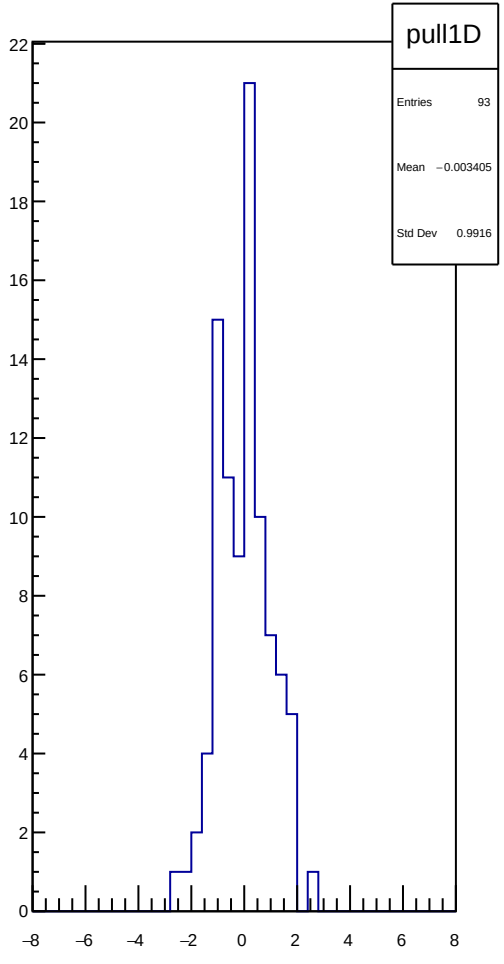

pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

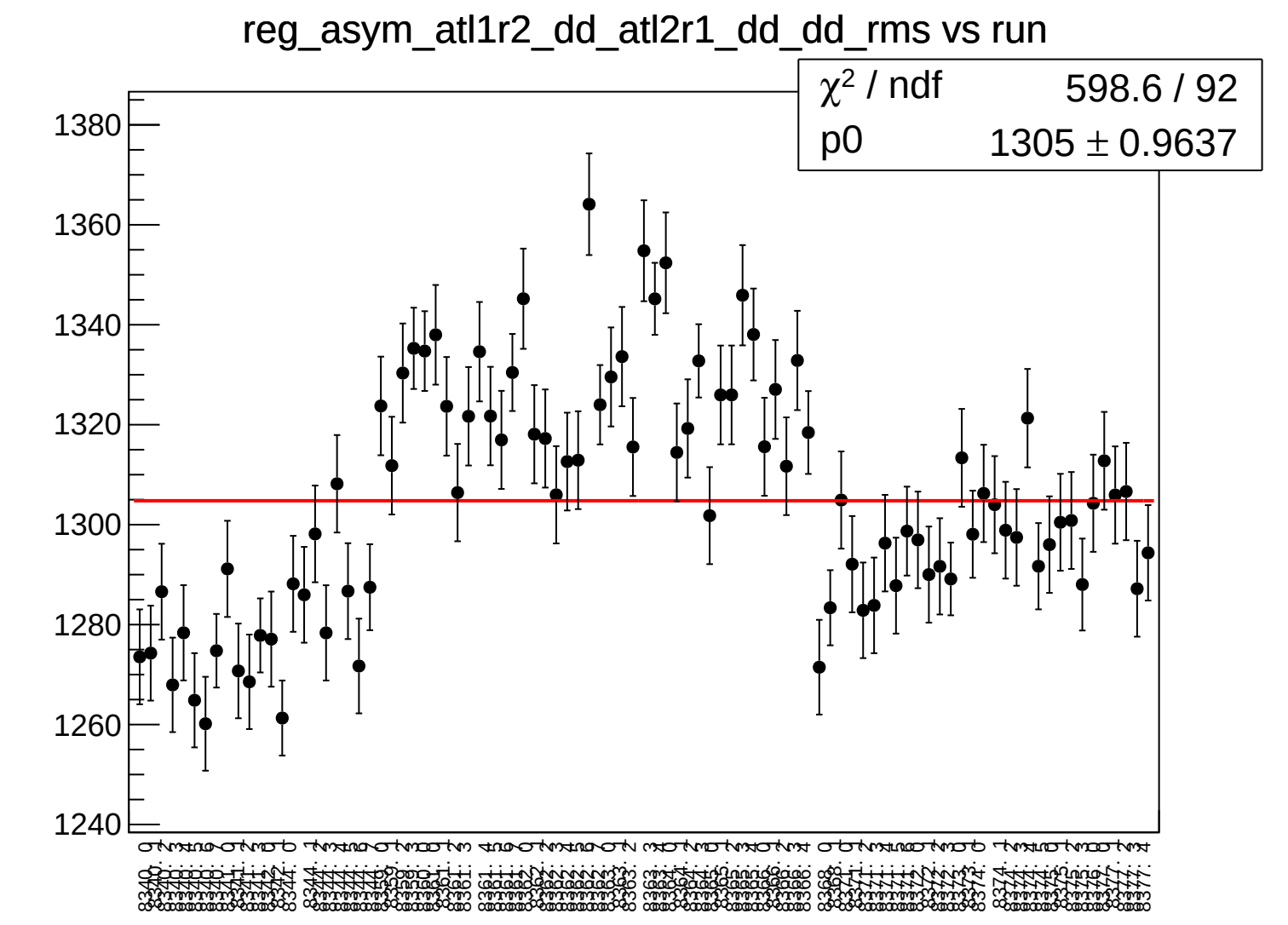

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

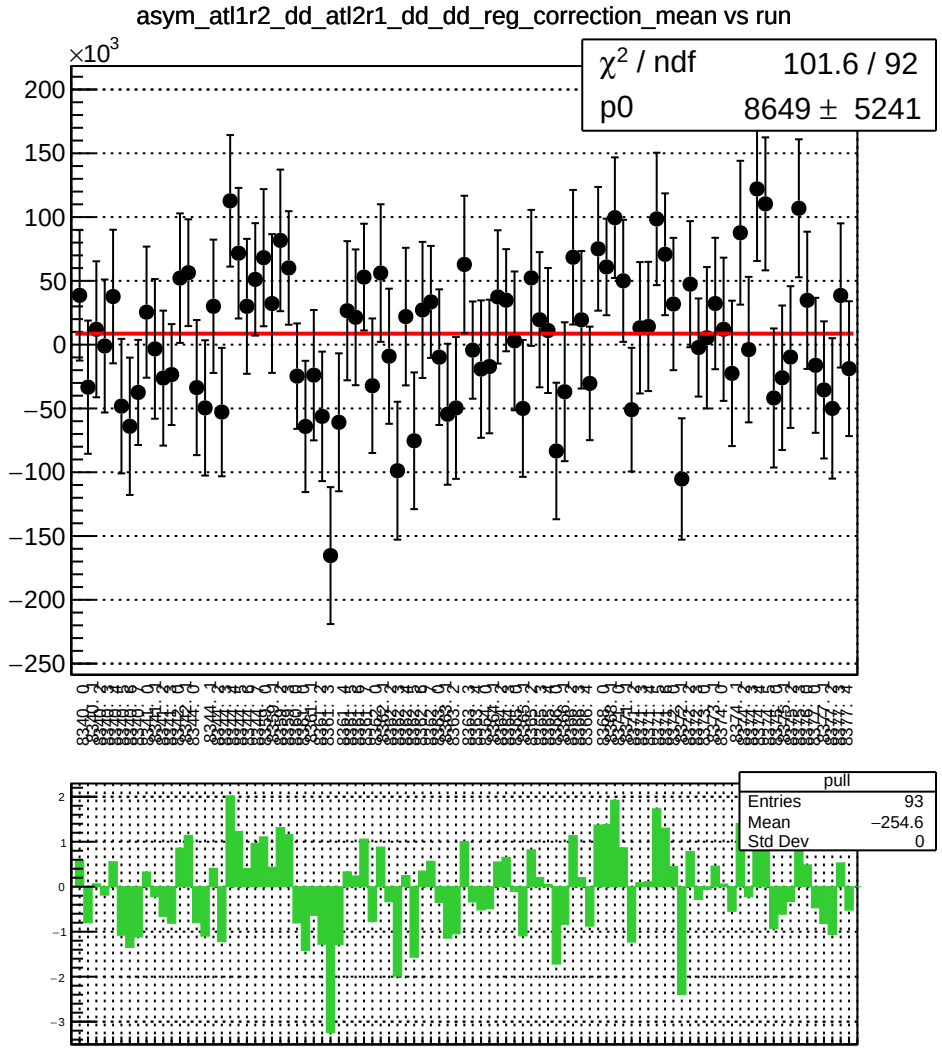

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.22 / 92
p0 −1.215e−13 ± 3.742e−13
20
0
−20
−40
−60
pull
Entries 93
Mean 4175
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0008438
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

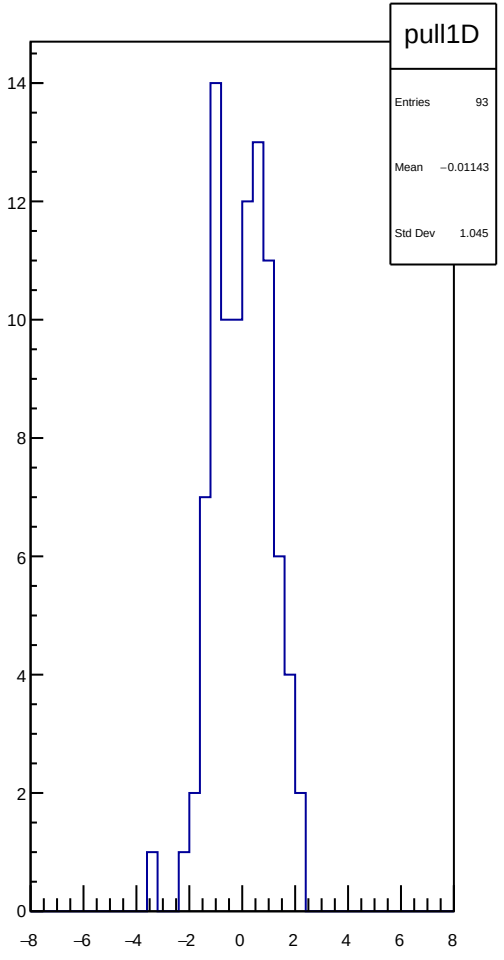

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.016e+05 / 92
p0 2.937e−10 ± 2.646e−13
2.5
2
1.5
1
0.5

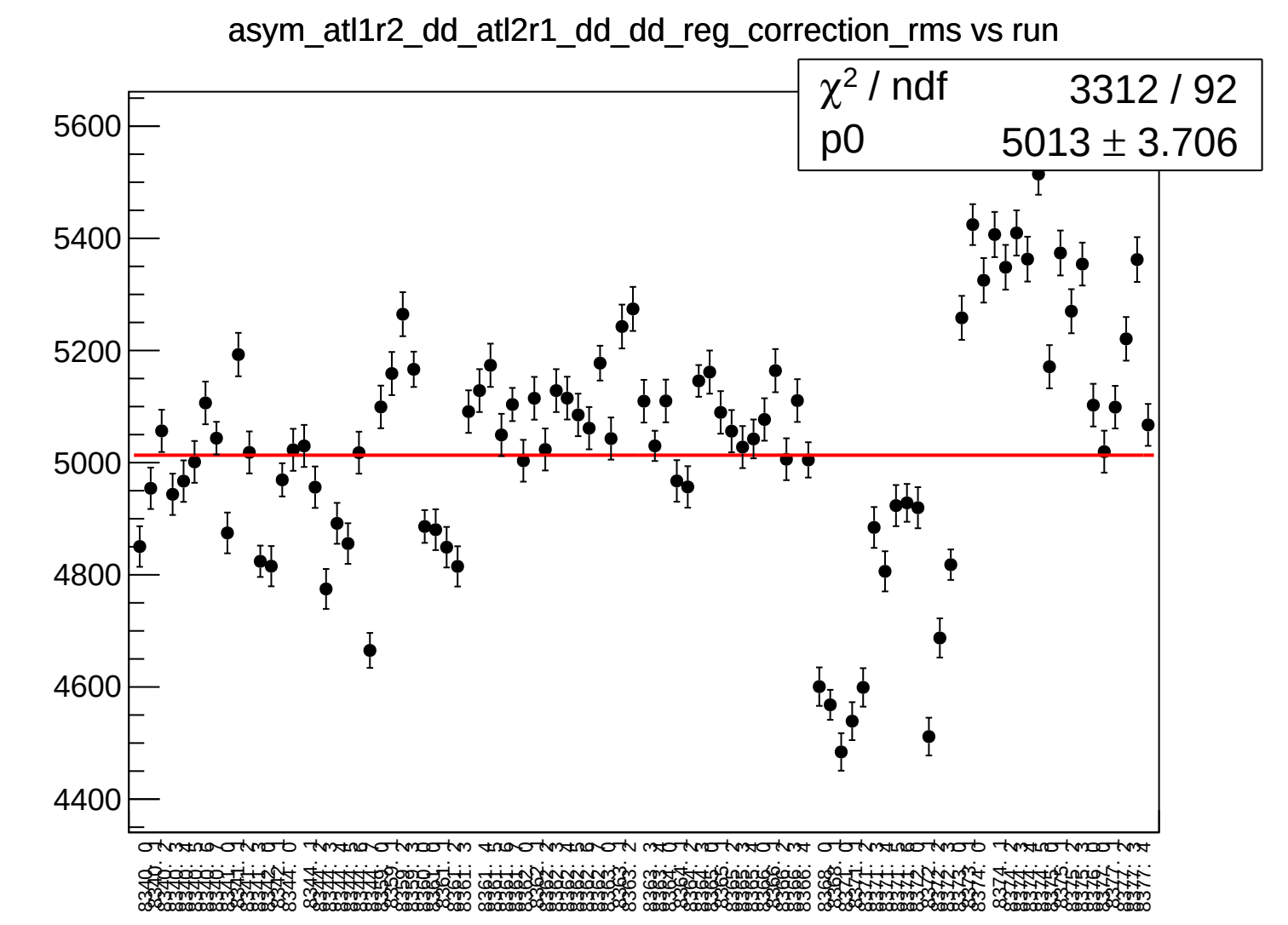

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.4 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.6
Std Dev 0
2
1
0
−1
−2
−3

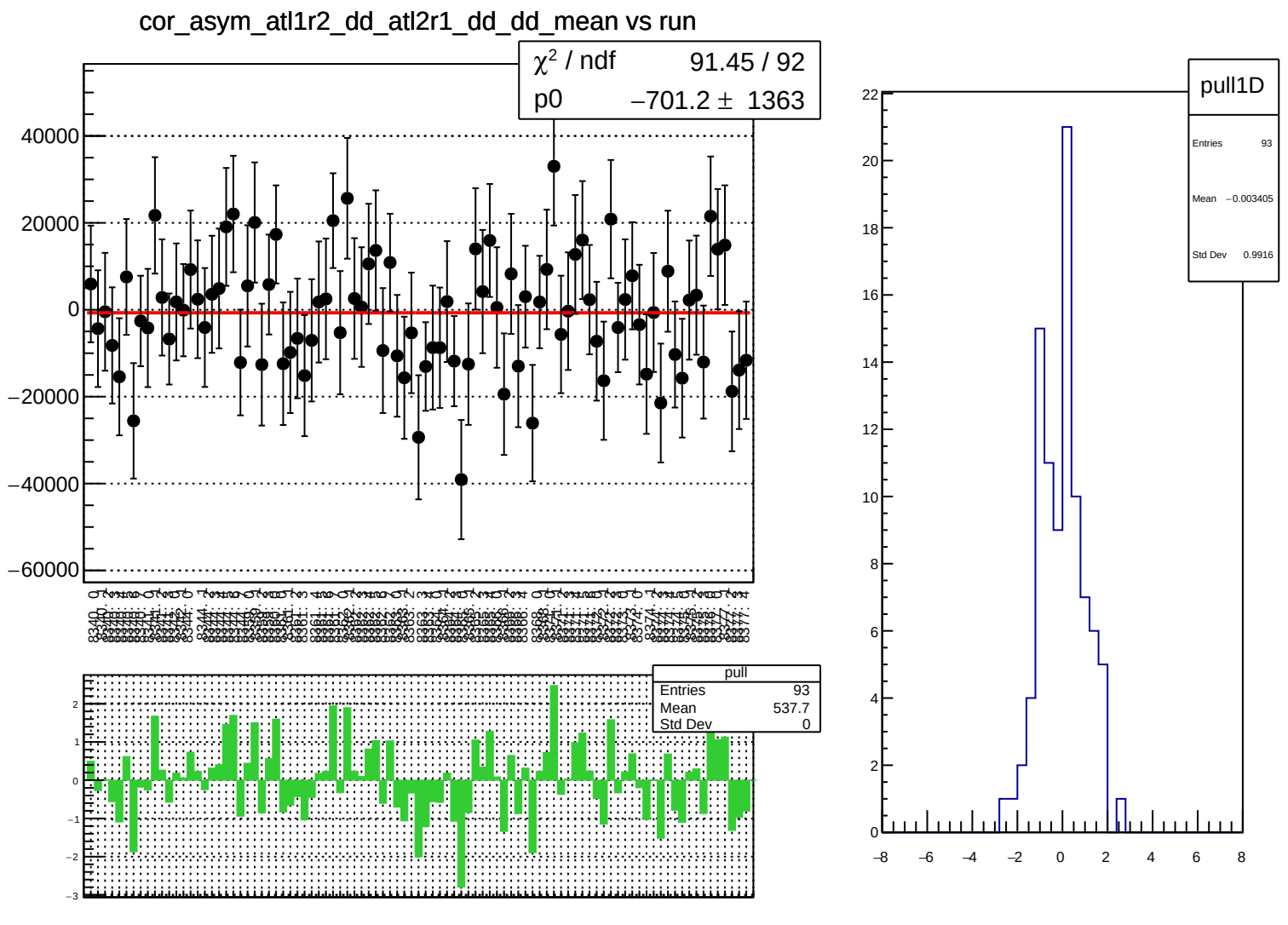

pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

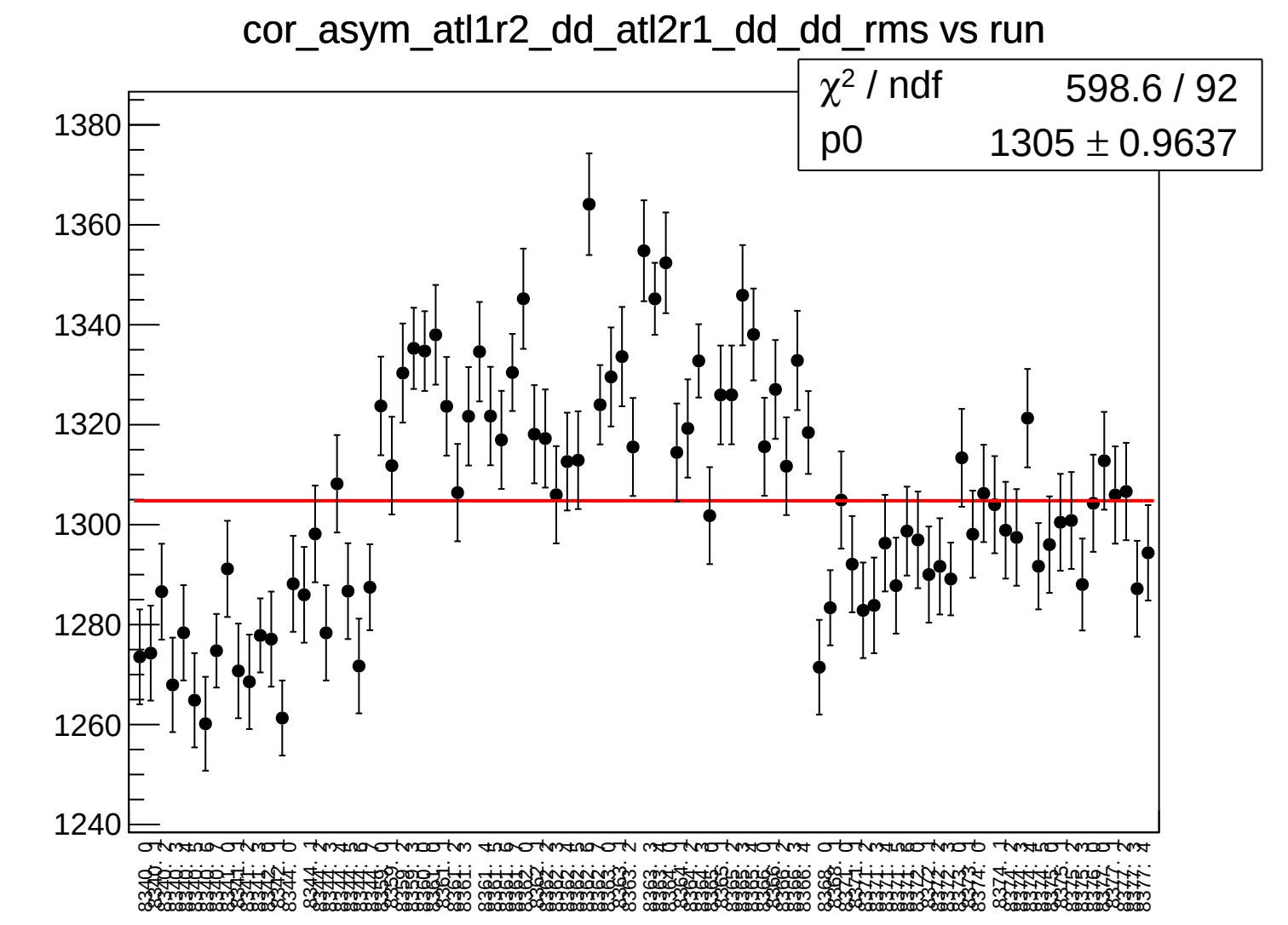

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

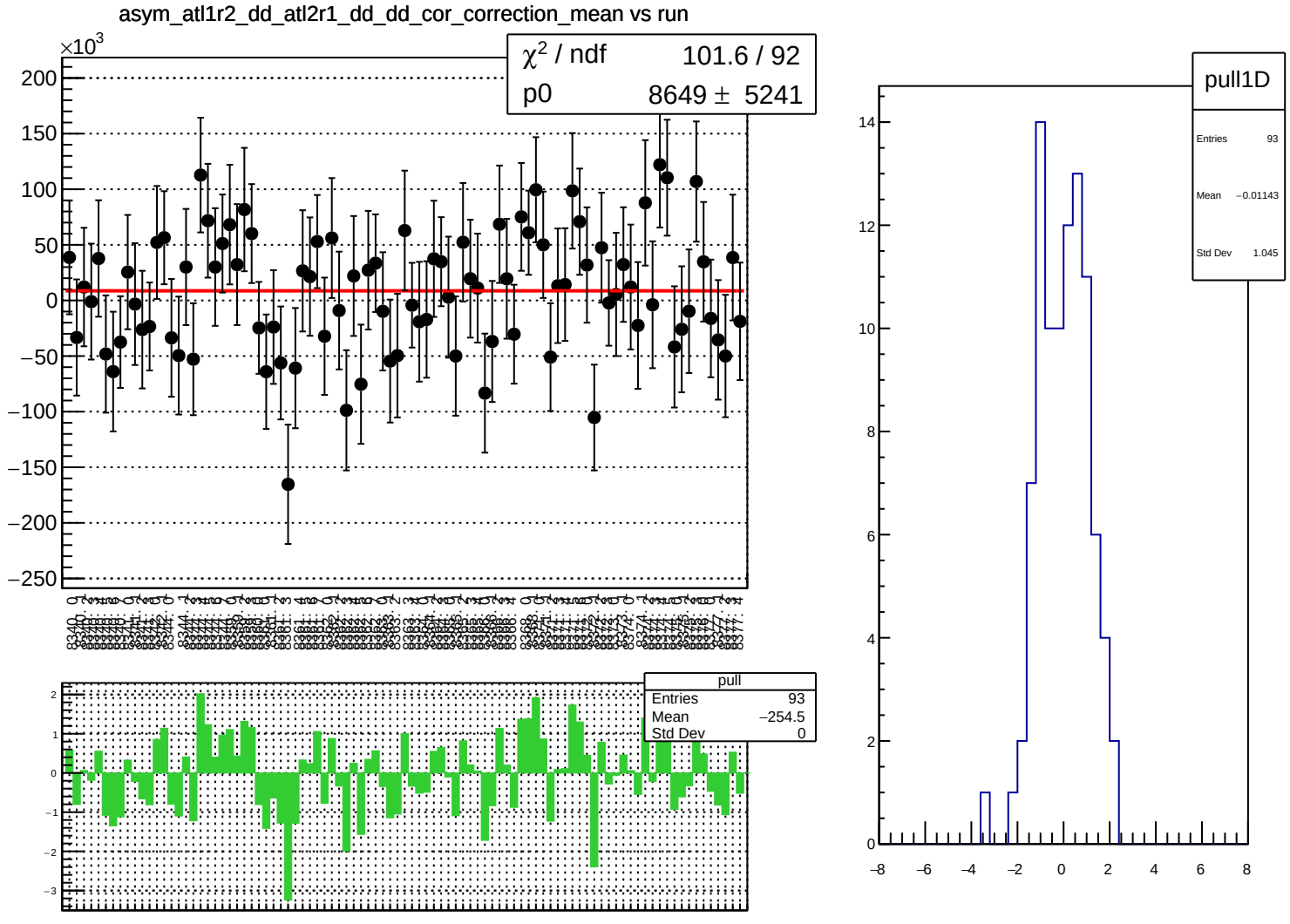

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −254.6
Std Dev 0
2
1
0
−1
−2
−3

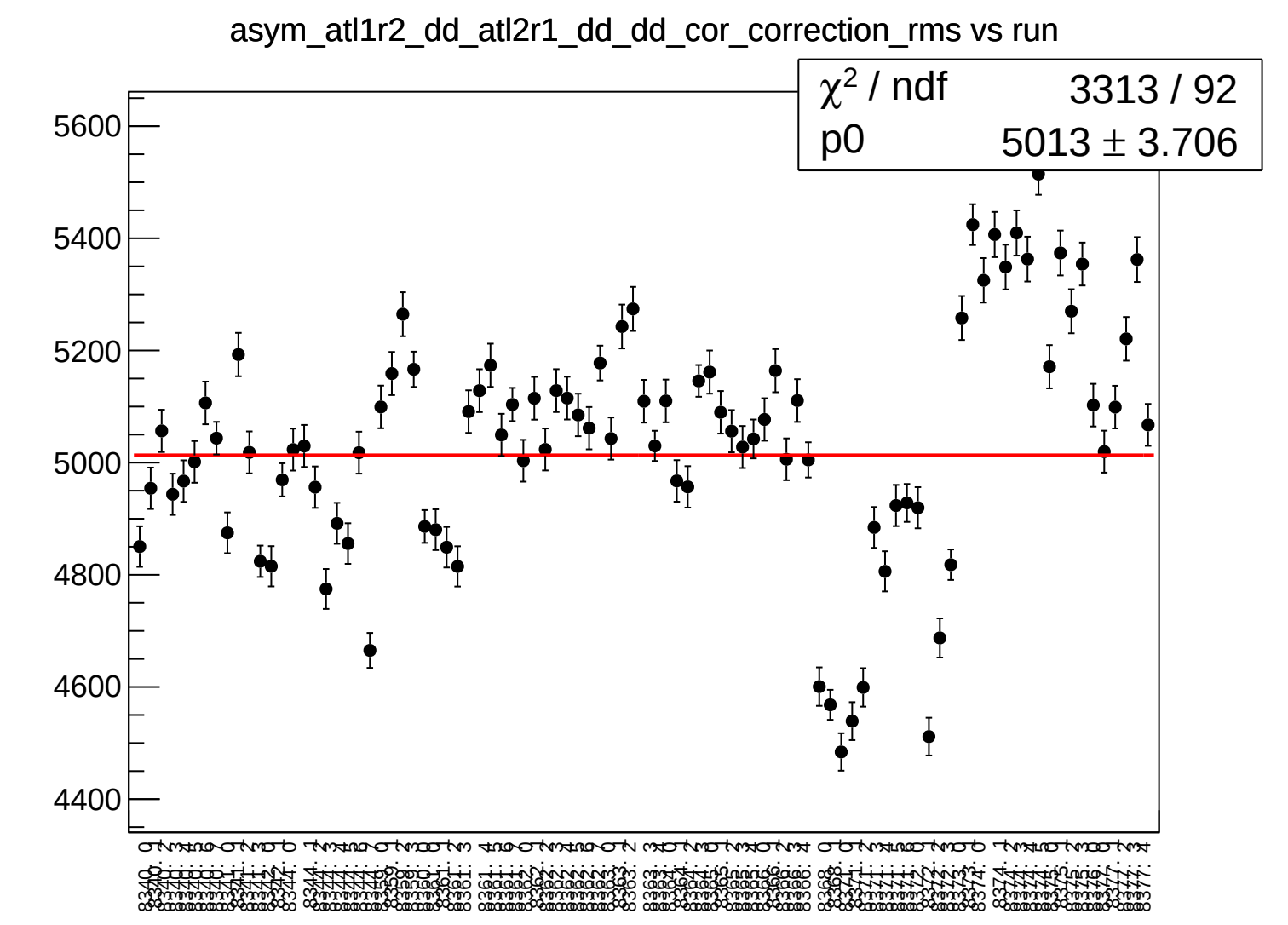

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

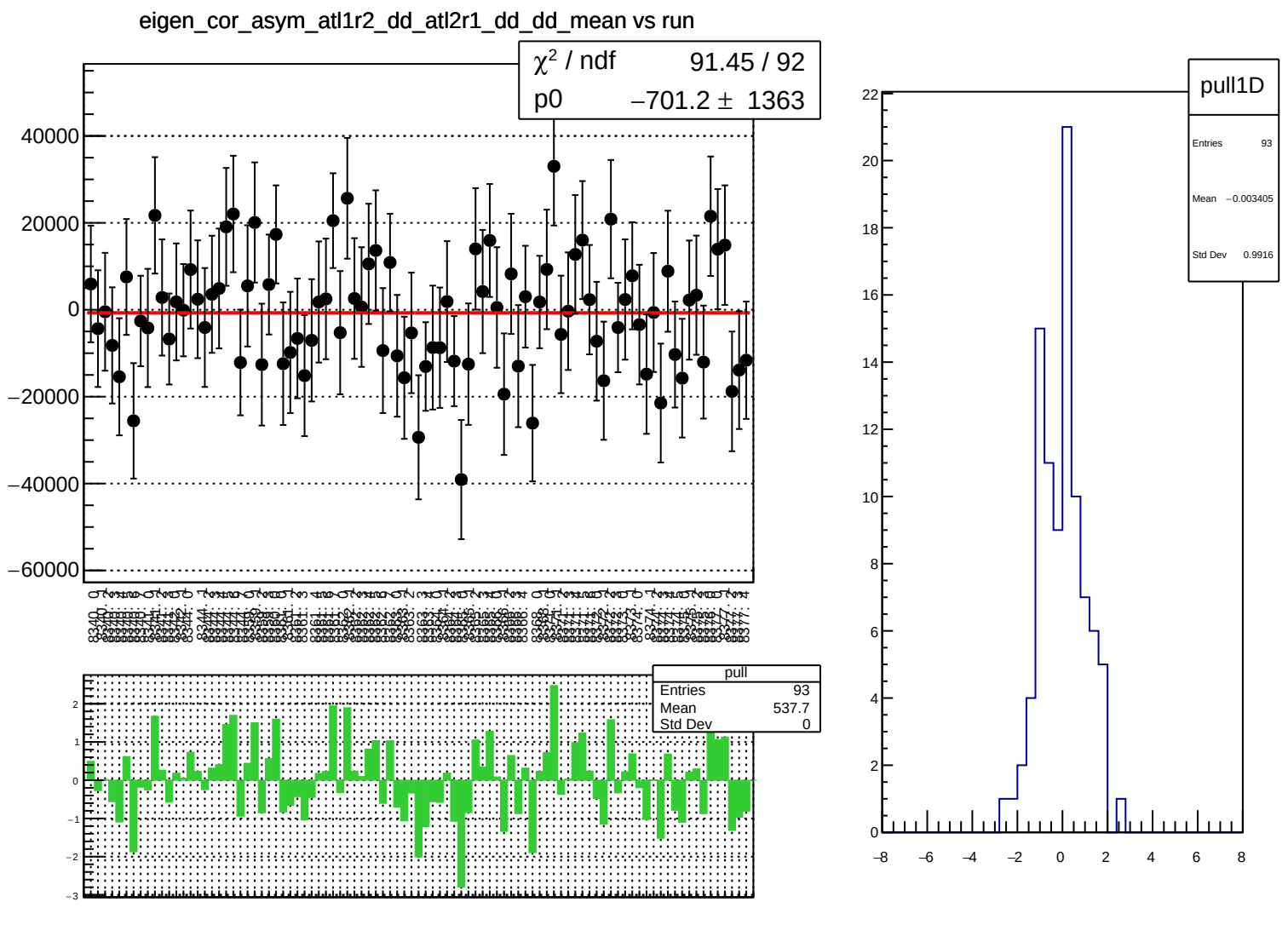

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3312 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

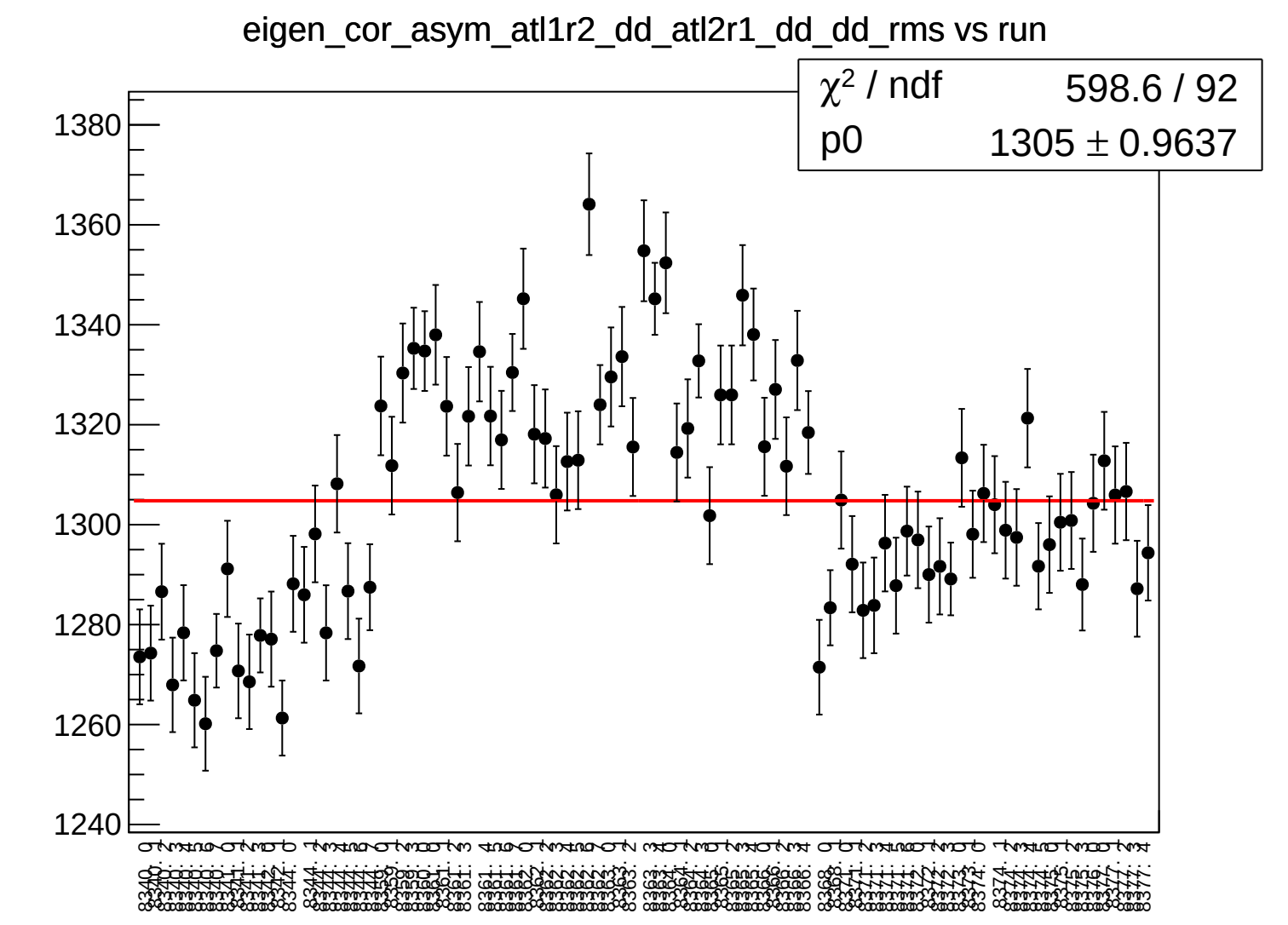

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

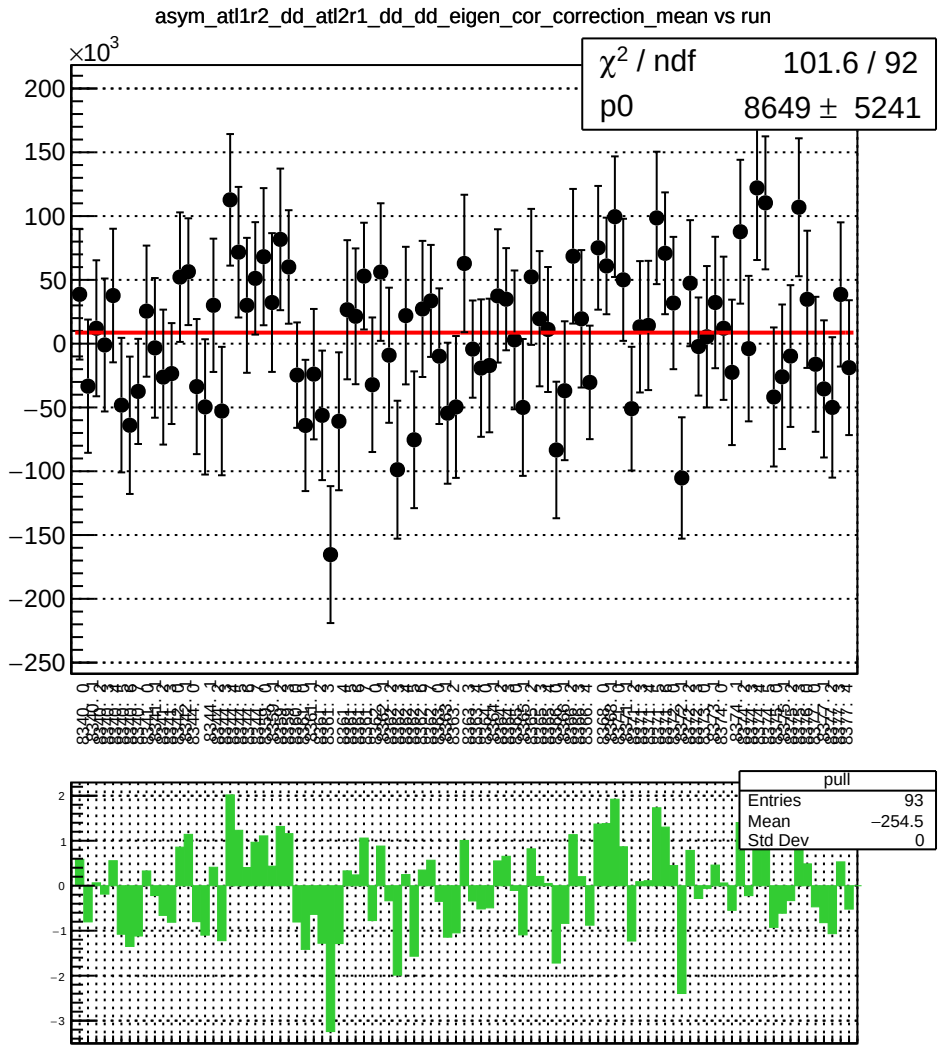

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

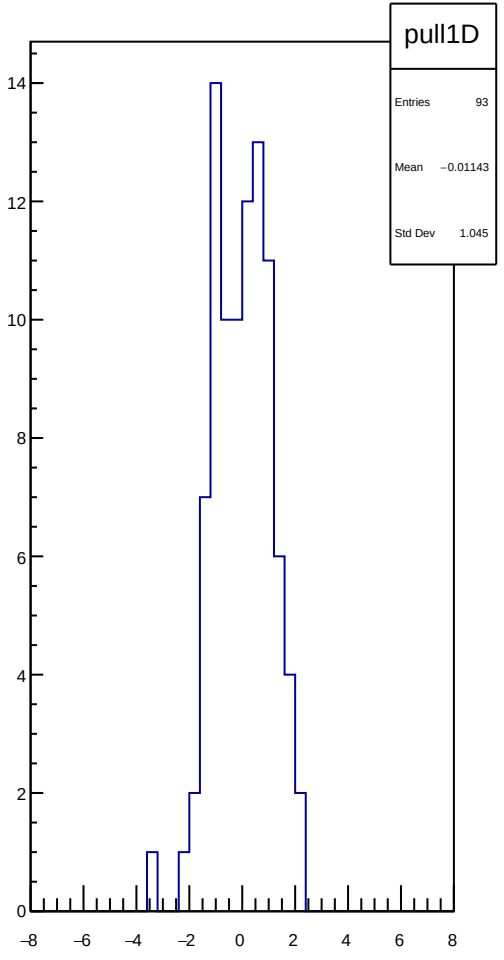

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
pull
Entries 93
Mean −254.5
Std Dev 0
pull1D
Entries 93
Mean −0.01143
Std Dev 1.045

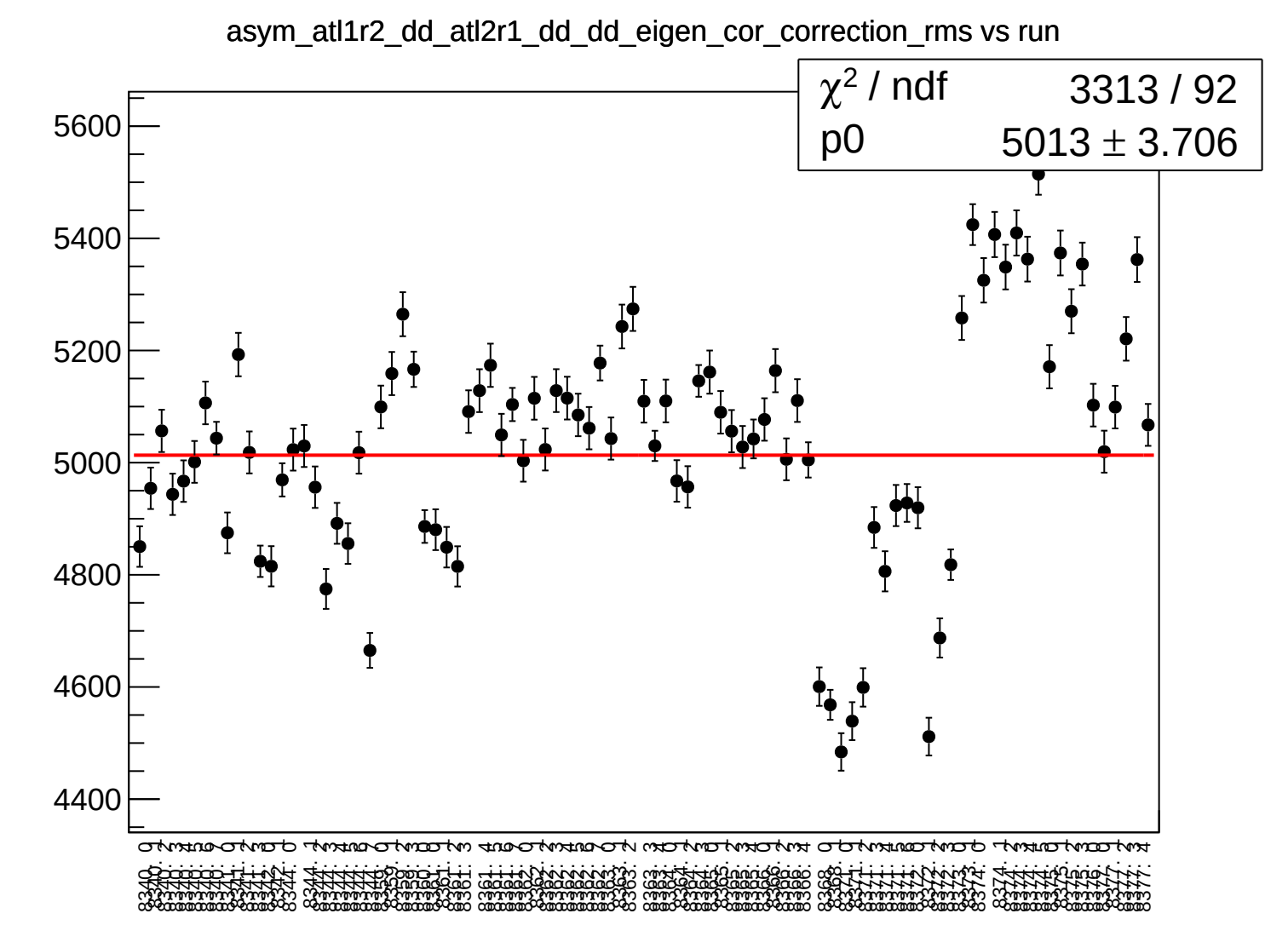

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

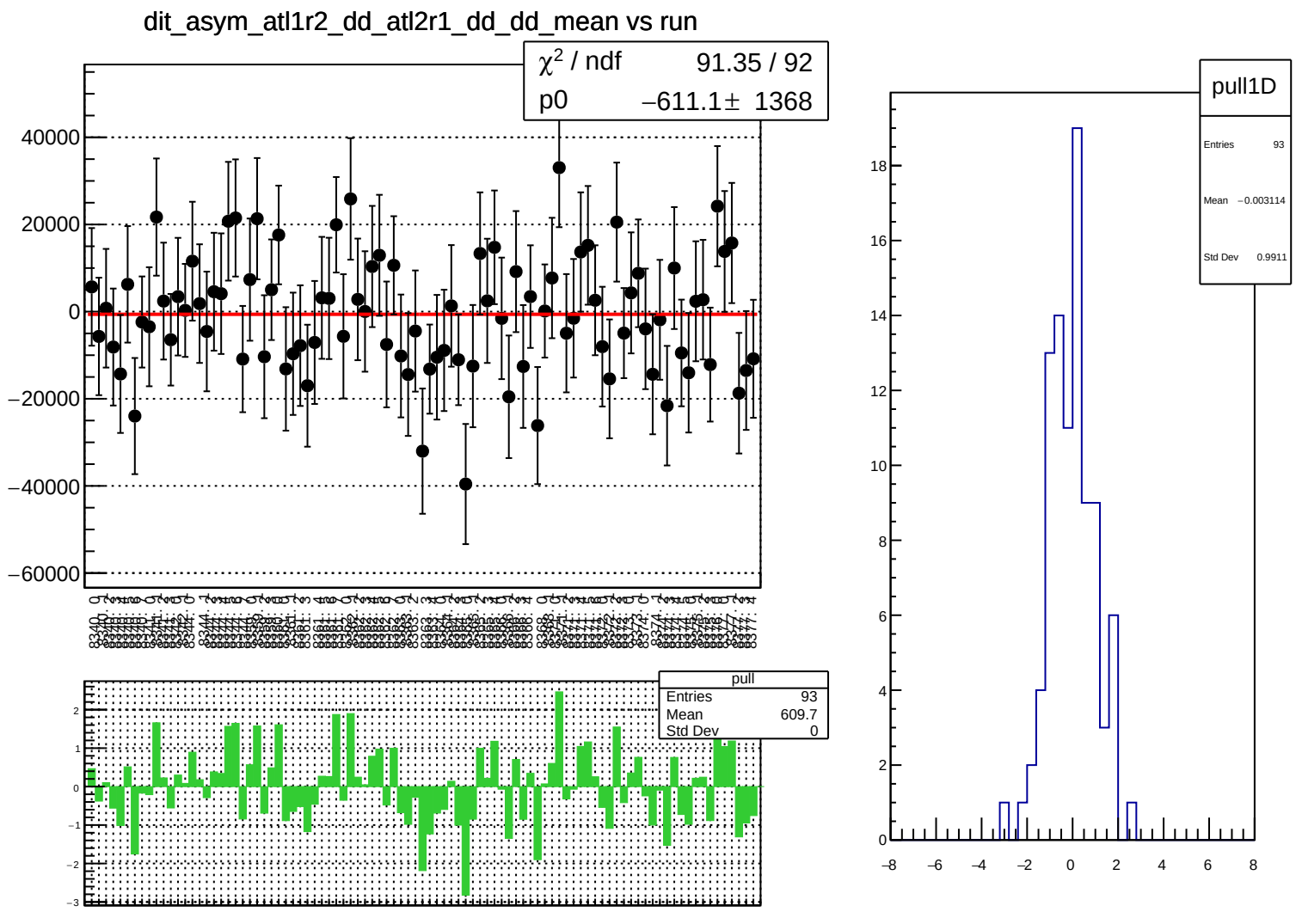

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.45 / 92
p0 −701.2 ± 1363
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 537.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003405
Std Dev 0.9916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

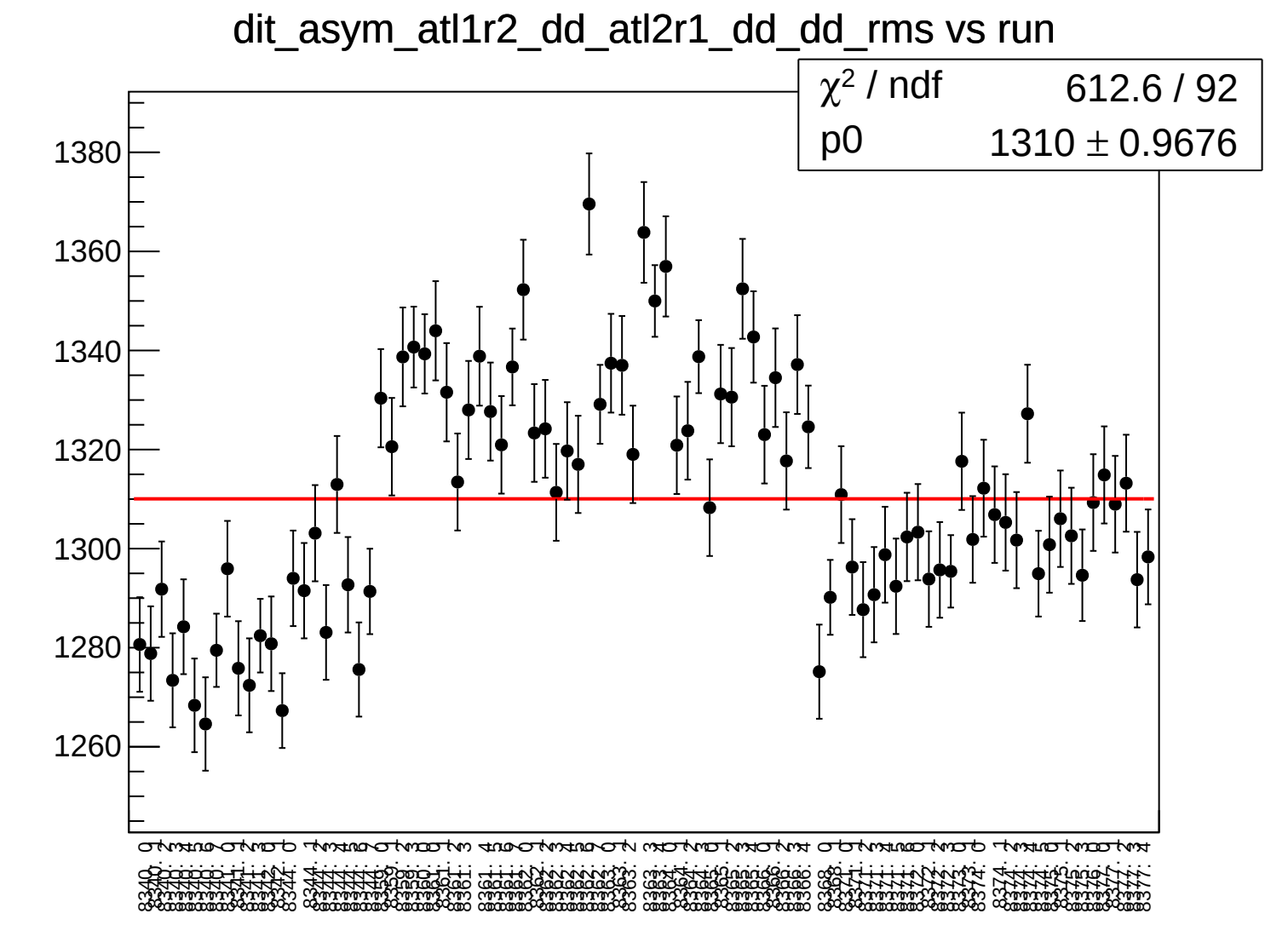

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 598.6 / 92
p0 1305 ± 0.9637
1380
1360
1340
1320
1300
1280
1260
1240

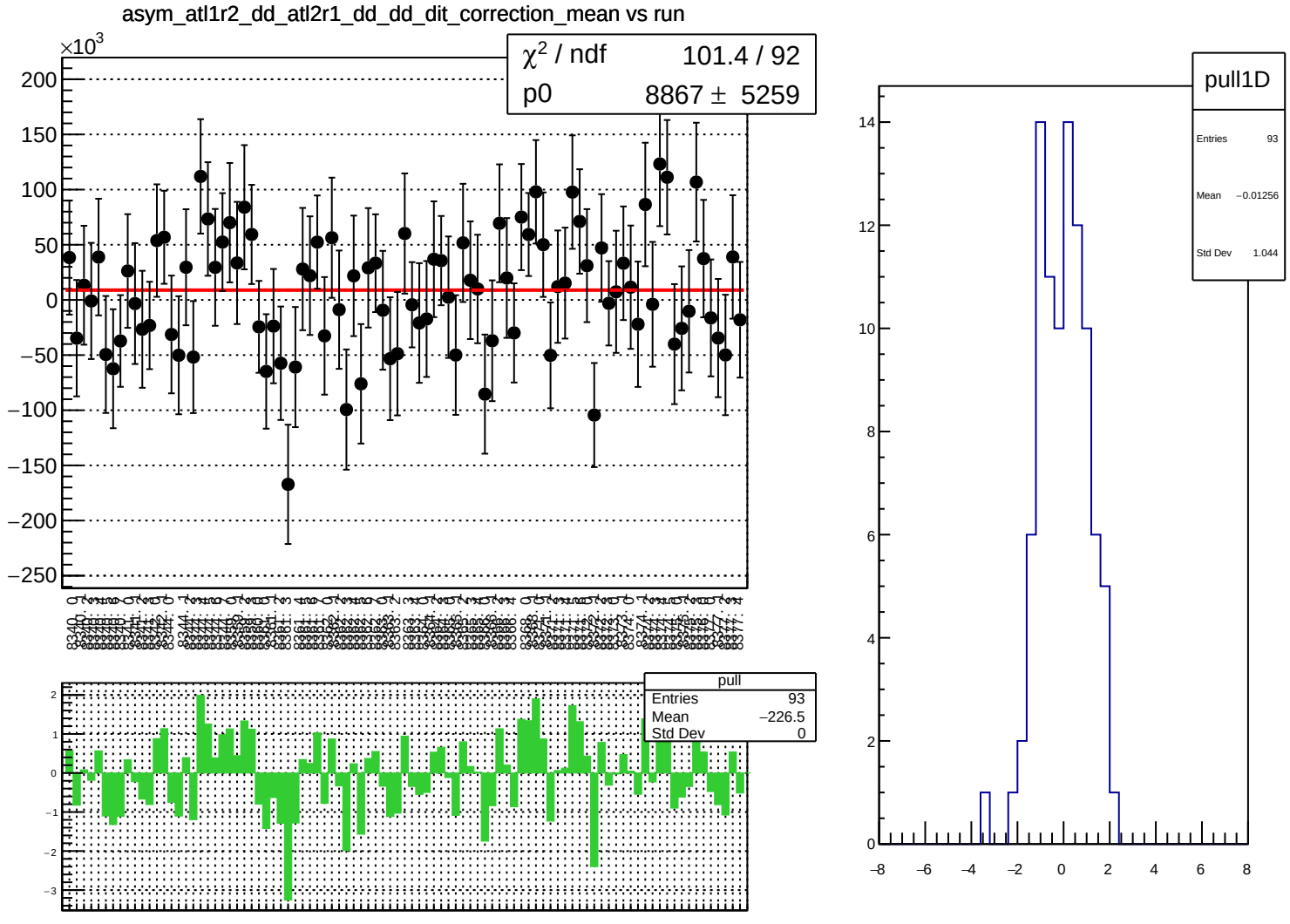

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.6 / 92
p0 8649 ± 5241
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −254.5
Std Dev 0
2
1
0
−1
−2
−3

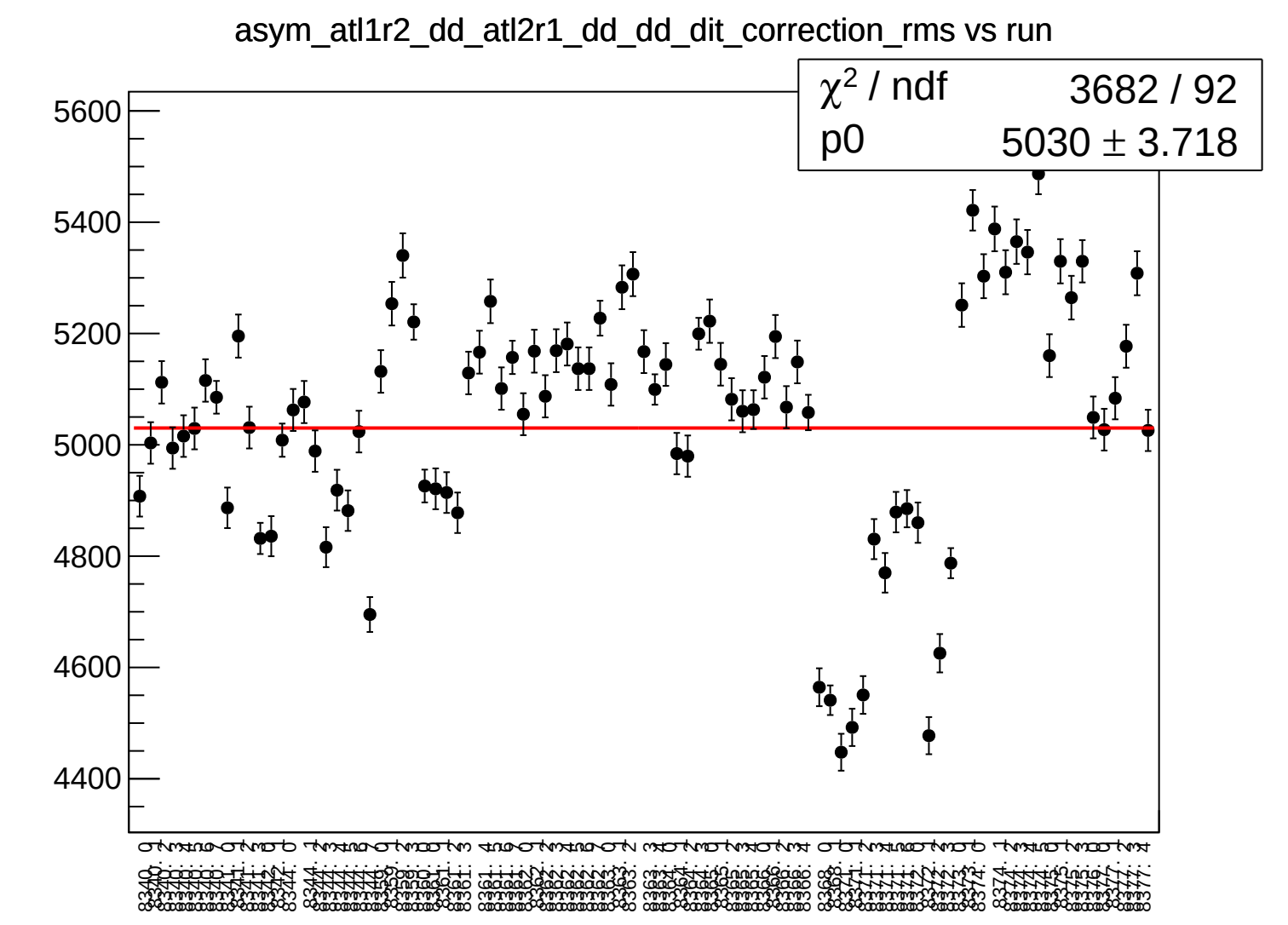

pull1D
Entries 93
Mean −0.01143
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

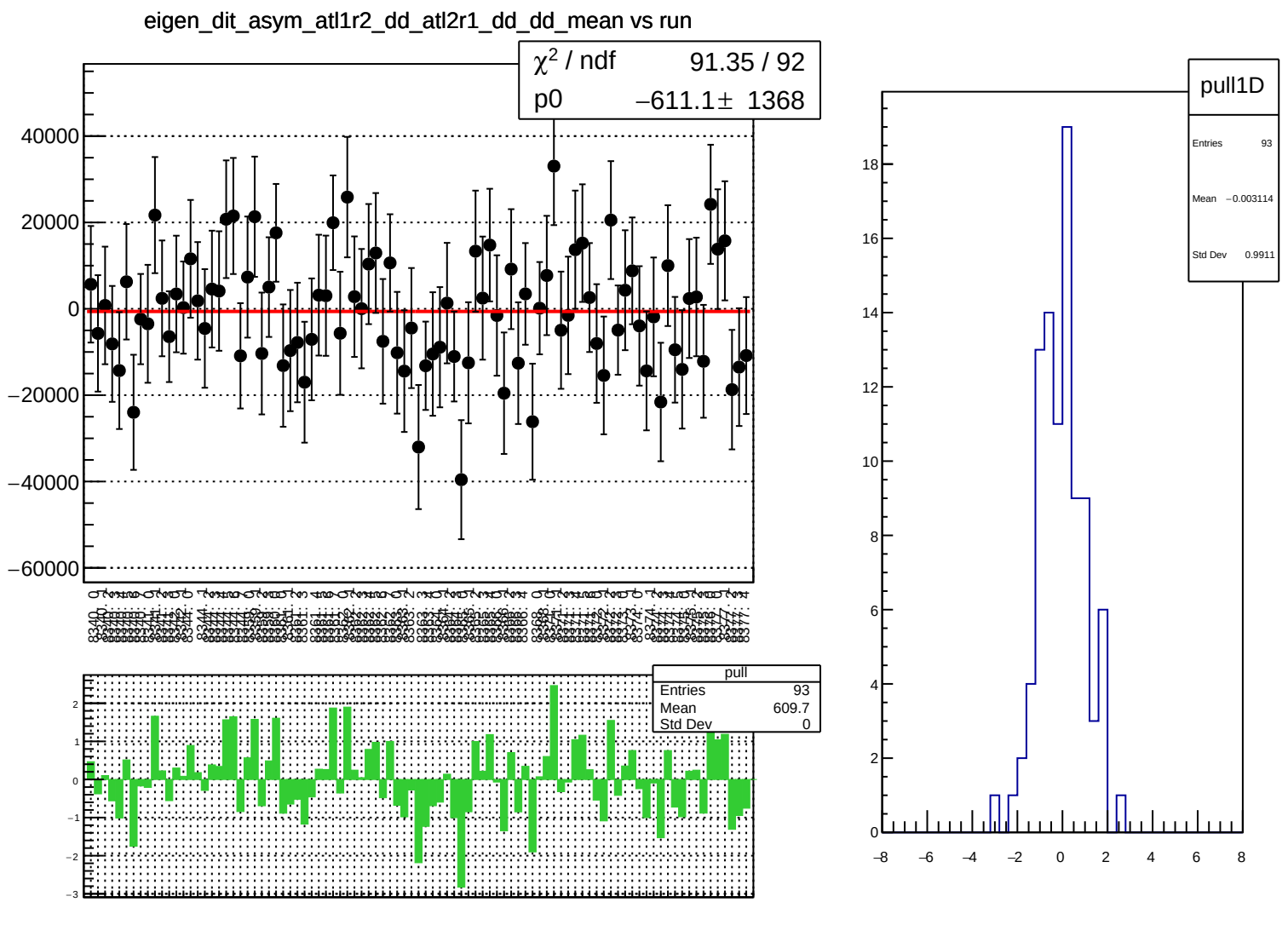

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3313 / 92
p0 5013 ± 3.706
5600
5400
5200
5000
4800
4600
4400

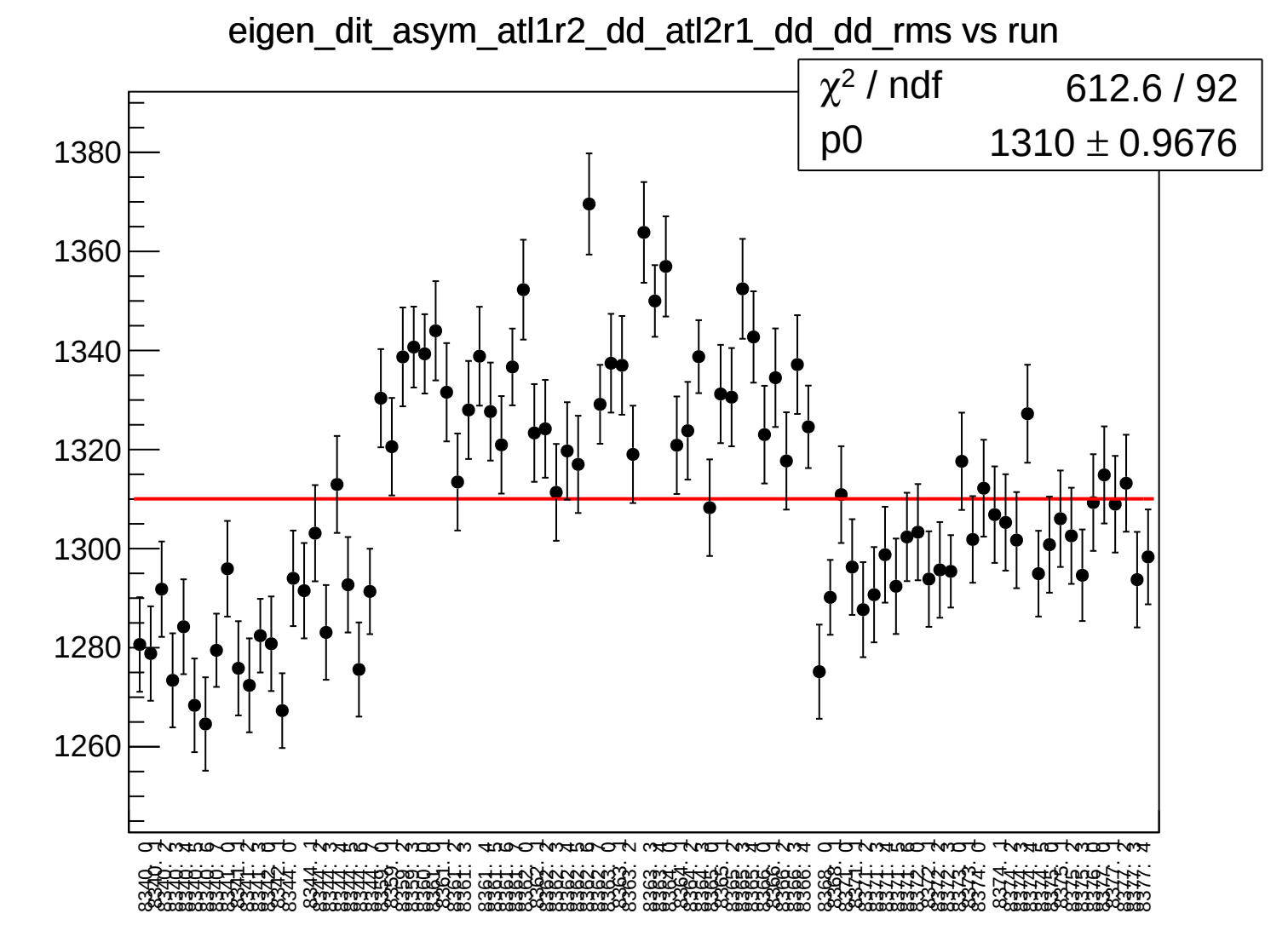

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

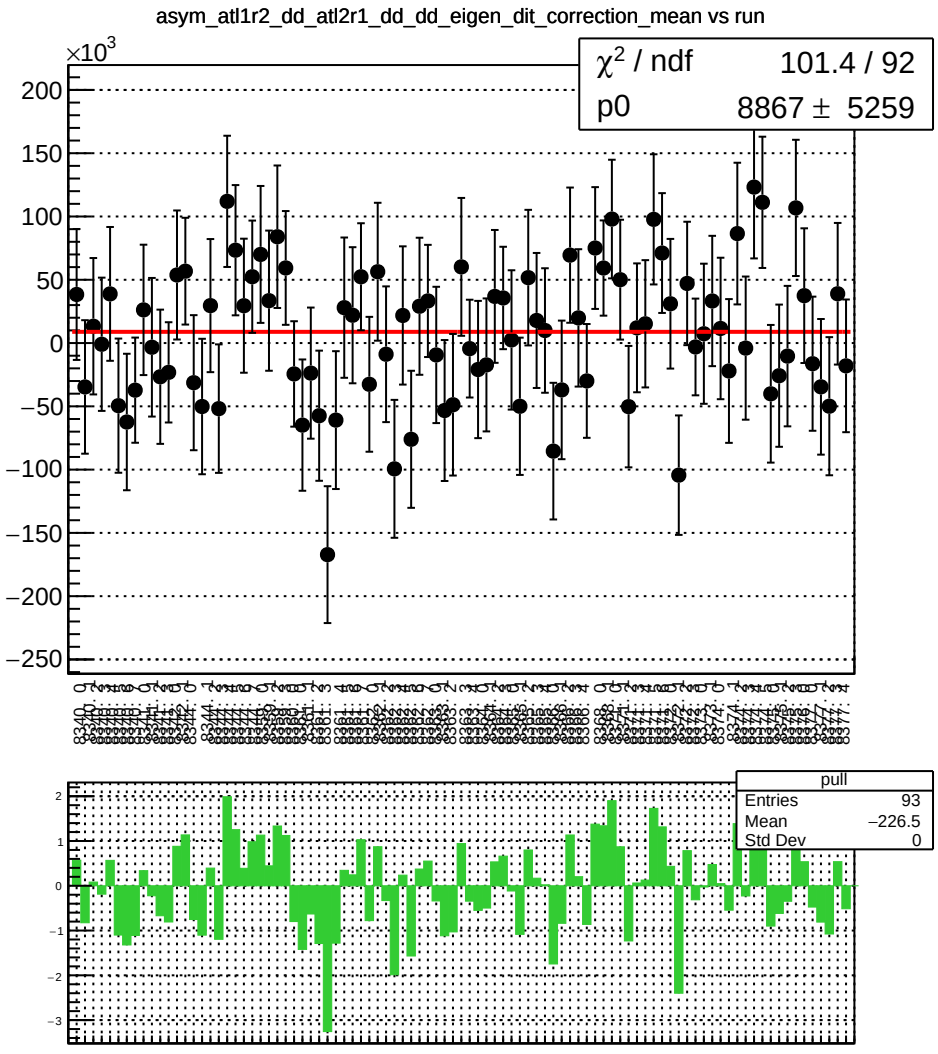

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

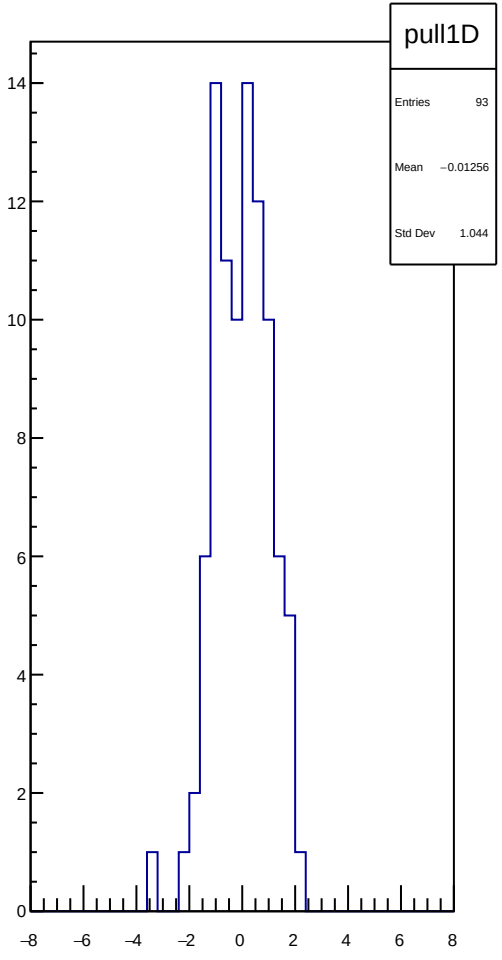

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
pull
Entries 93
Mean −226.5
Std Dev 0
pull1D
Entries 93
Mean −0.01256
Std Dev 1.044

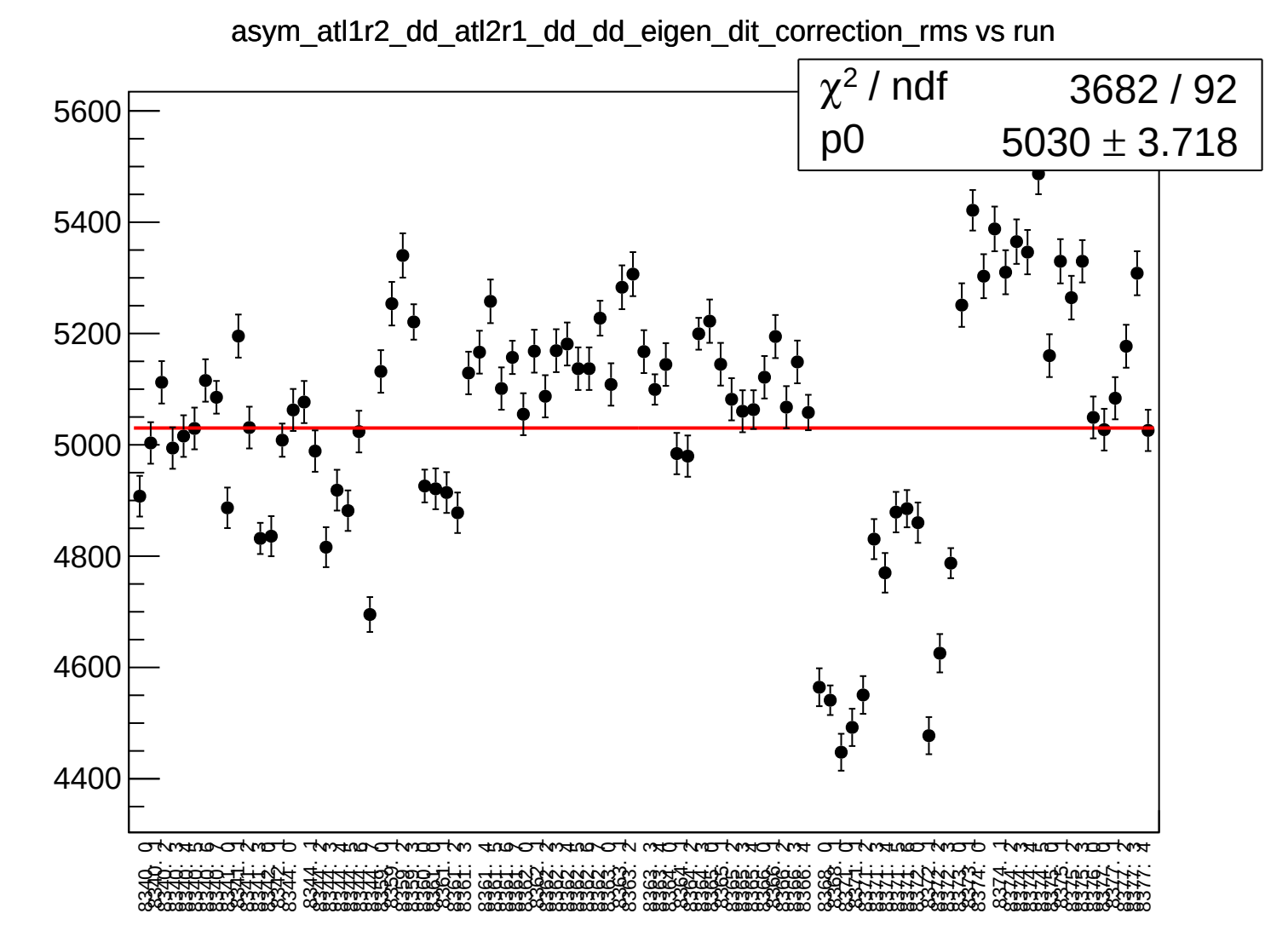

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

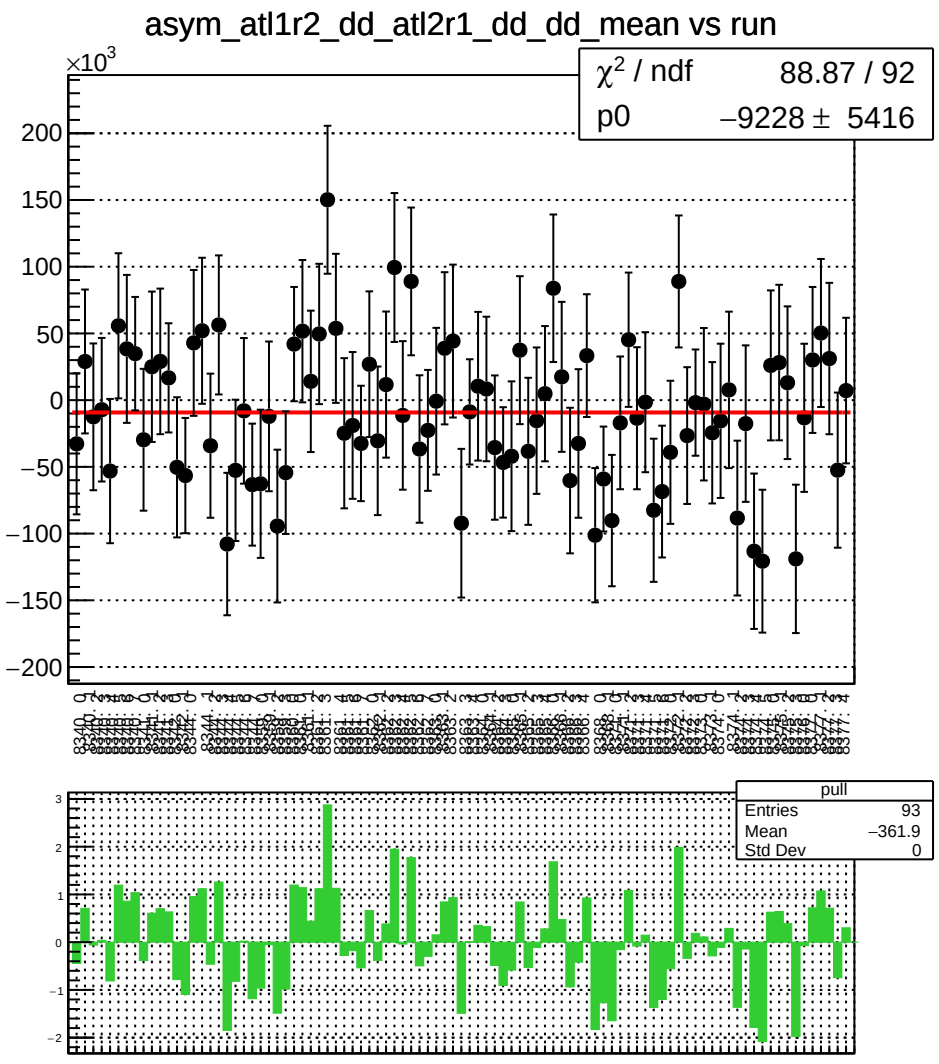

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 91.35 / 92
p0 −611.1± 1368
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 609.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003114
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

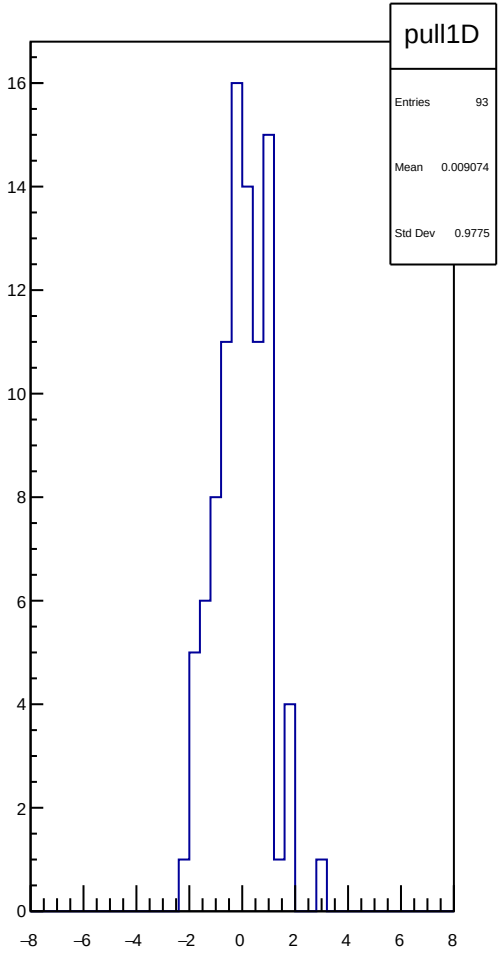

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 612.6 / 92
p0 1310 ± 0.9676
1380
1360
1340
1320
1300
1280
1260

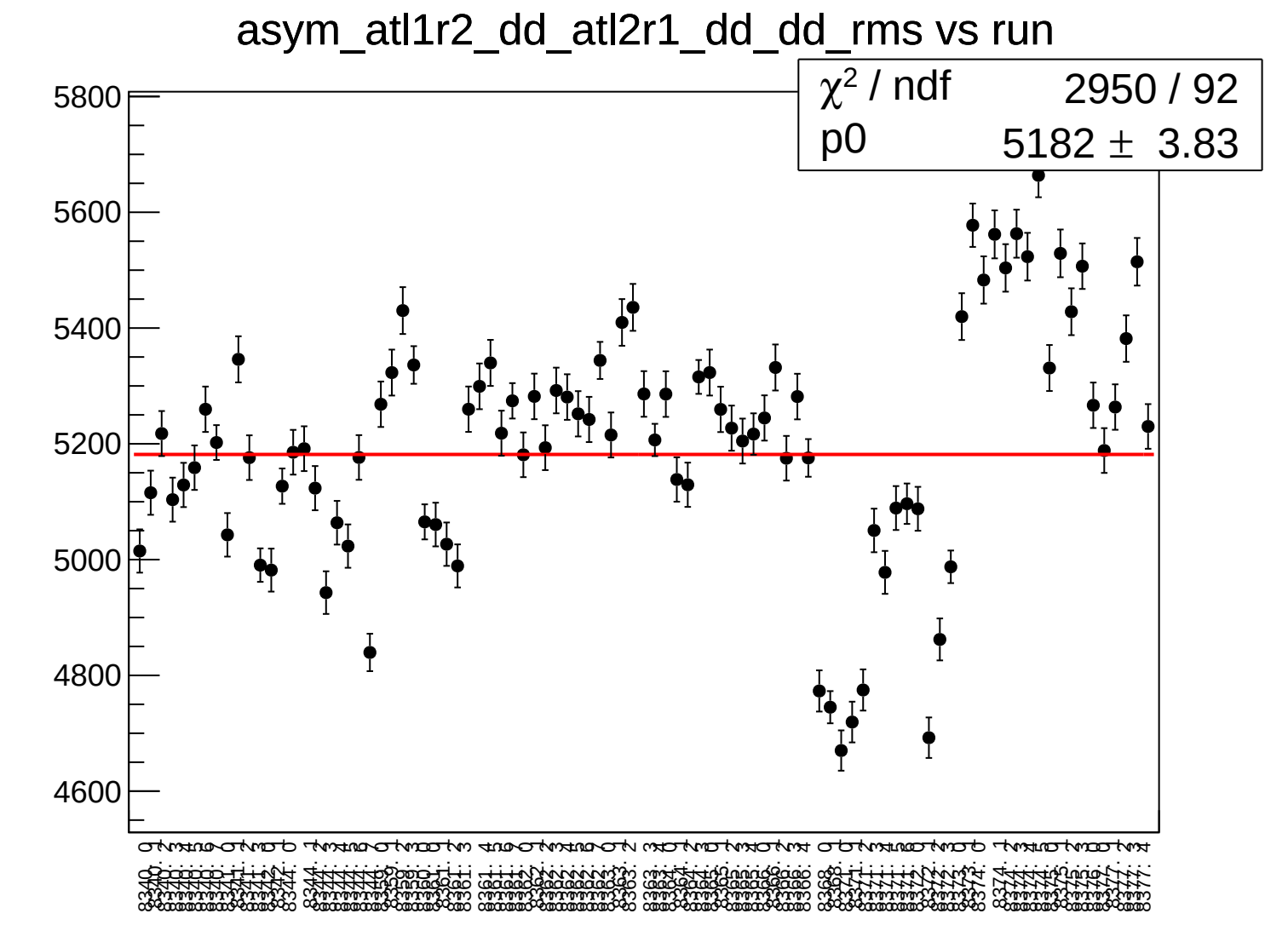

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 8867 ± 5259
pull
Entries 93
Mean −226.5
Std Dev 0

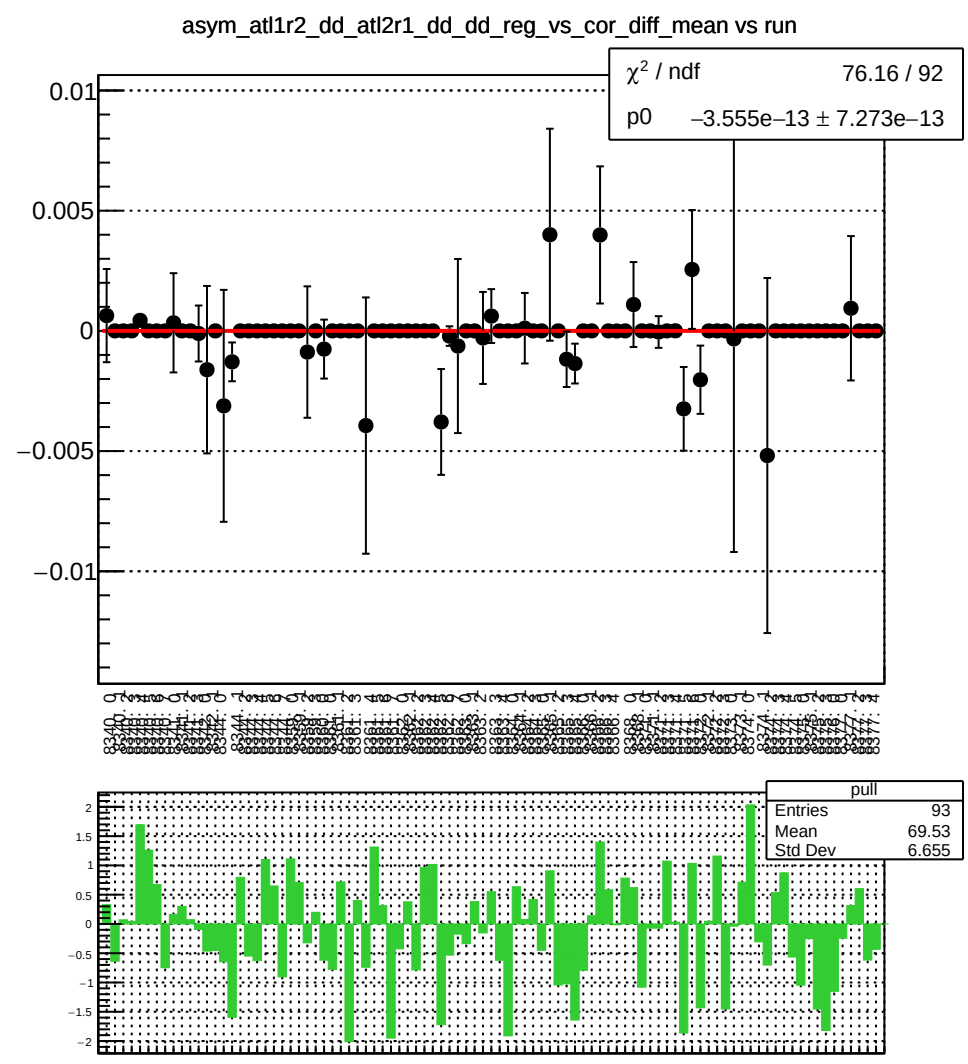

pull1D
Entries 93
Mean −0.01256
Std Dev 1.044

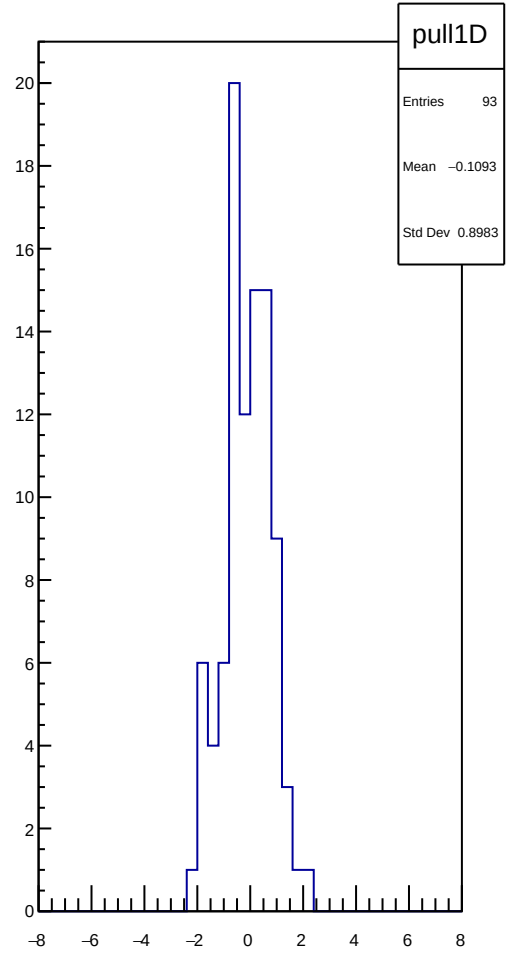

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3682 / 92
p0 5030 ± 3.718
5600
5400
5200
5000
4800
4600
4400

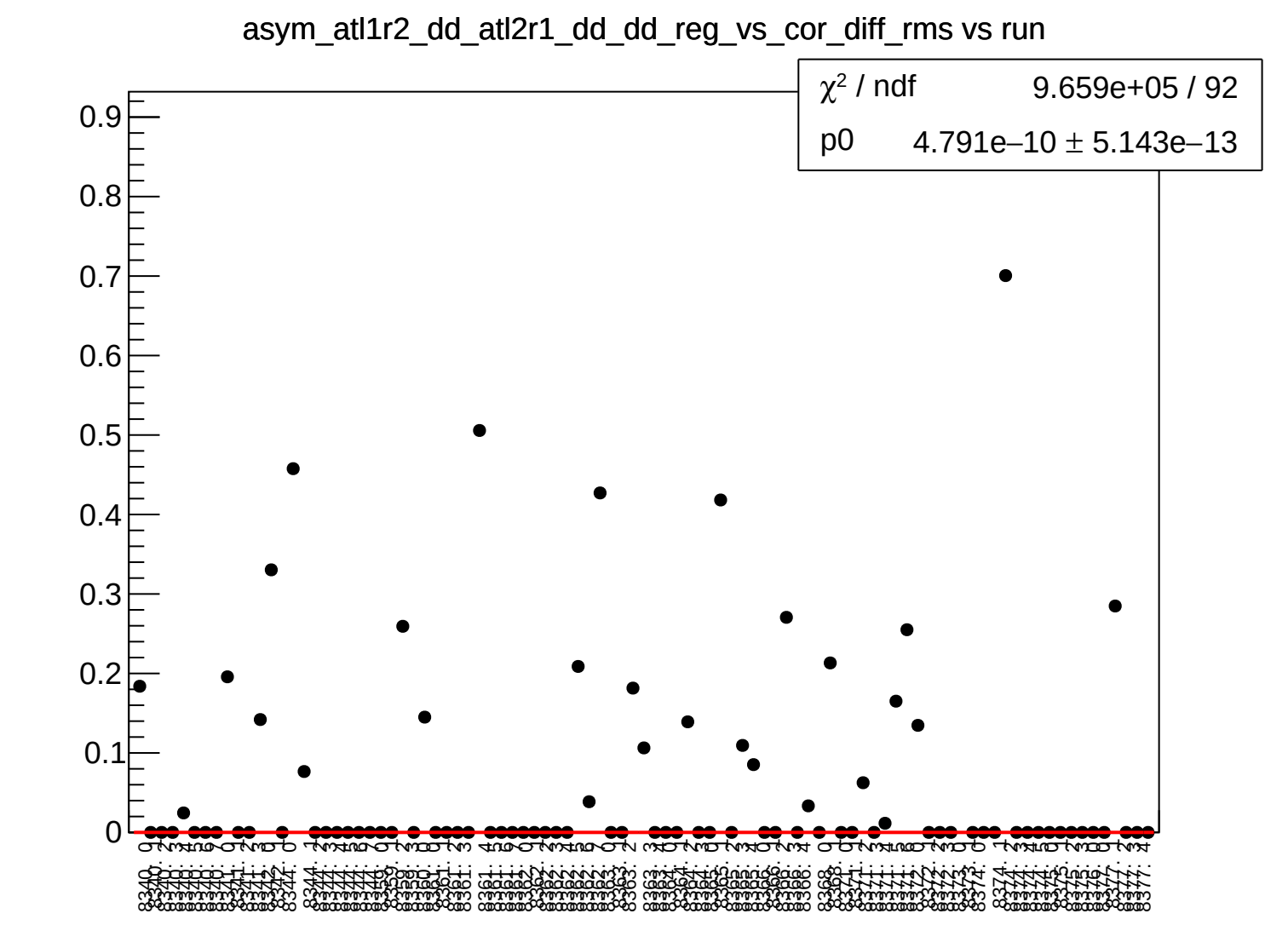

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 88.87 / 92
p0 −9228 ± 5416
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −361.9
Std Dev 0
3
2
1
0
−1
−2

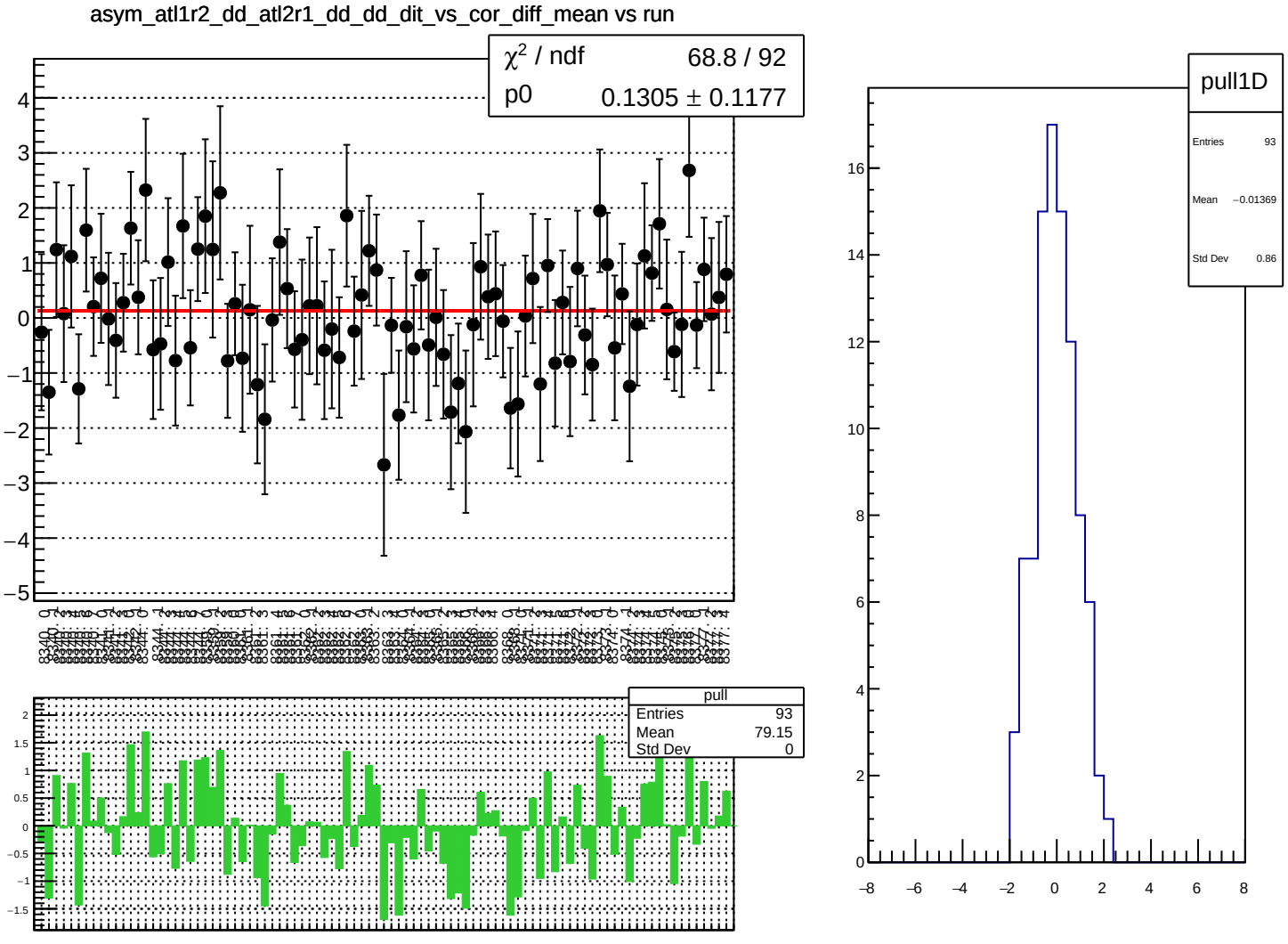

pull1D
Entries 93
Mean 0.009074
Std Dev 0.9775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

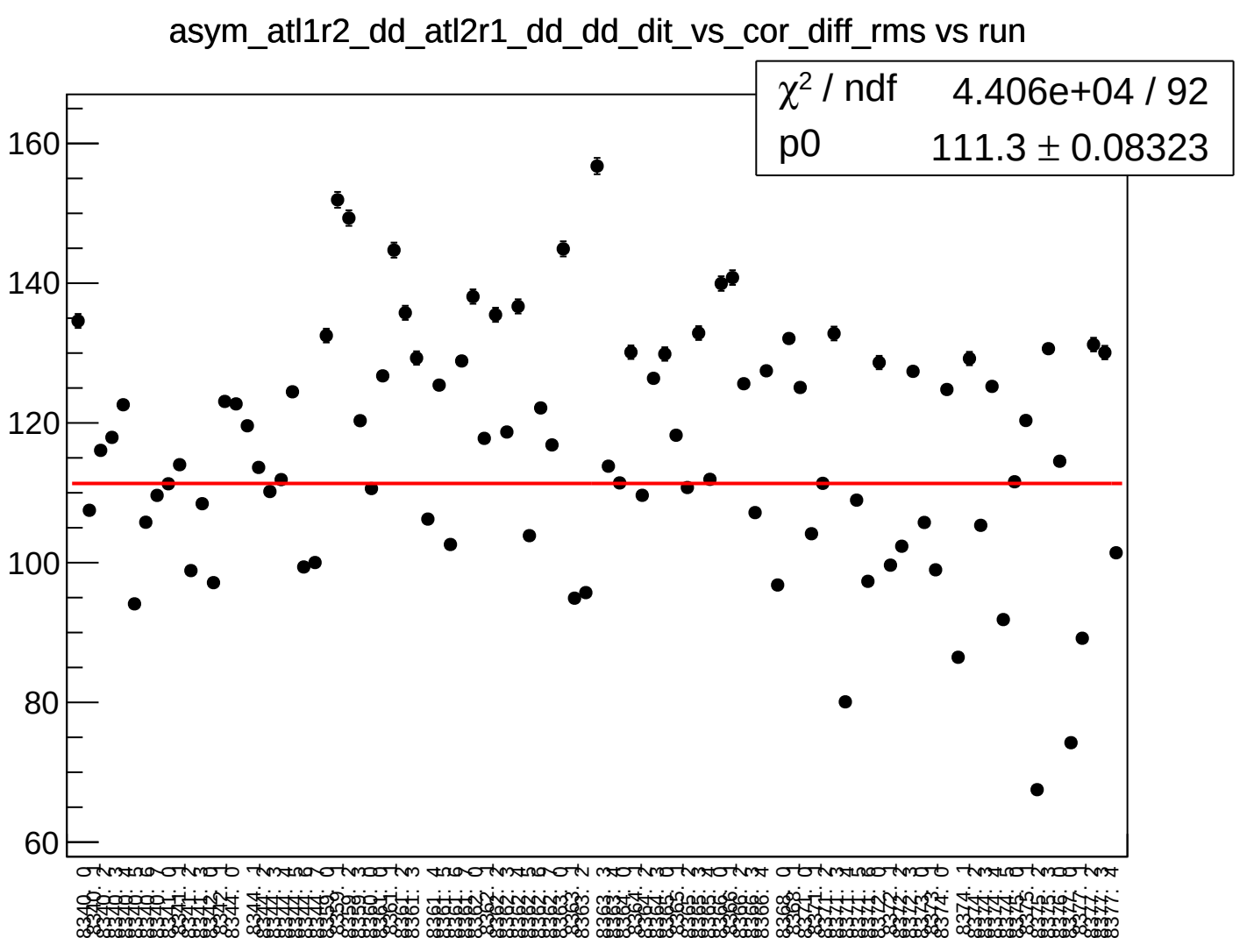

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2950 / 92
p0 5182 ± 3.83
5800
5600
5400
5200
5000
4800
4600

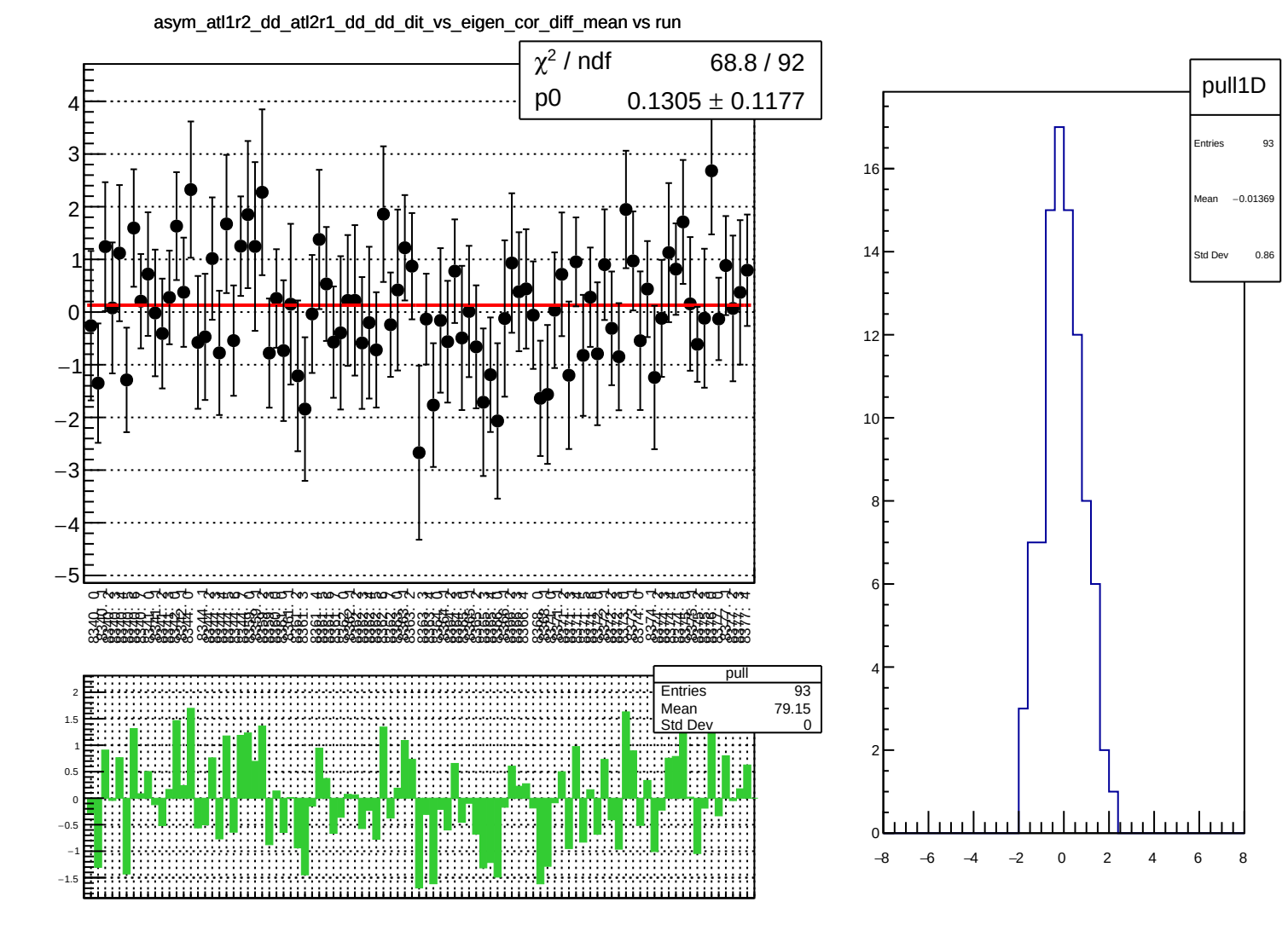

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.16 / 92
p0 −3.555e−13 ± 7.273e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 69.53
Std Dev 6.655
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

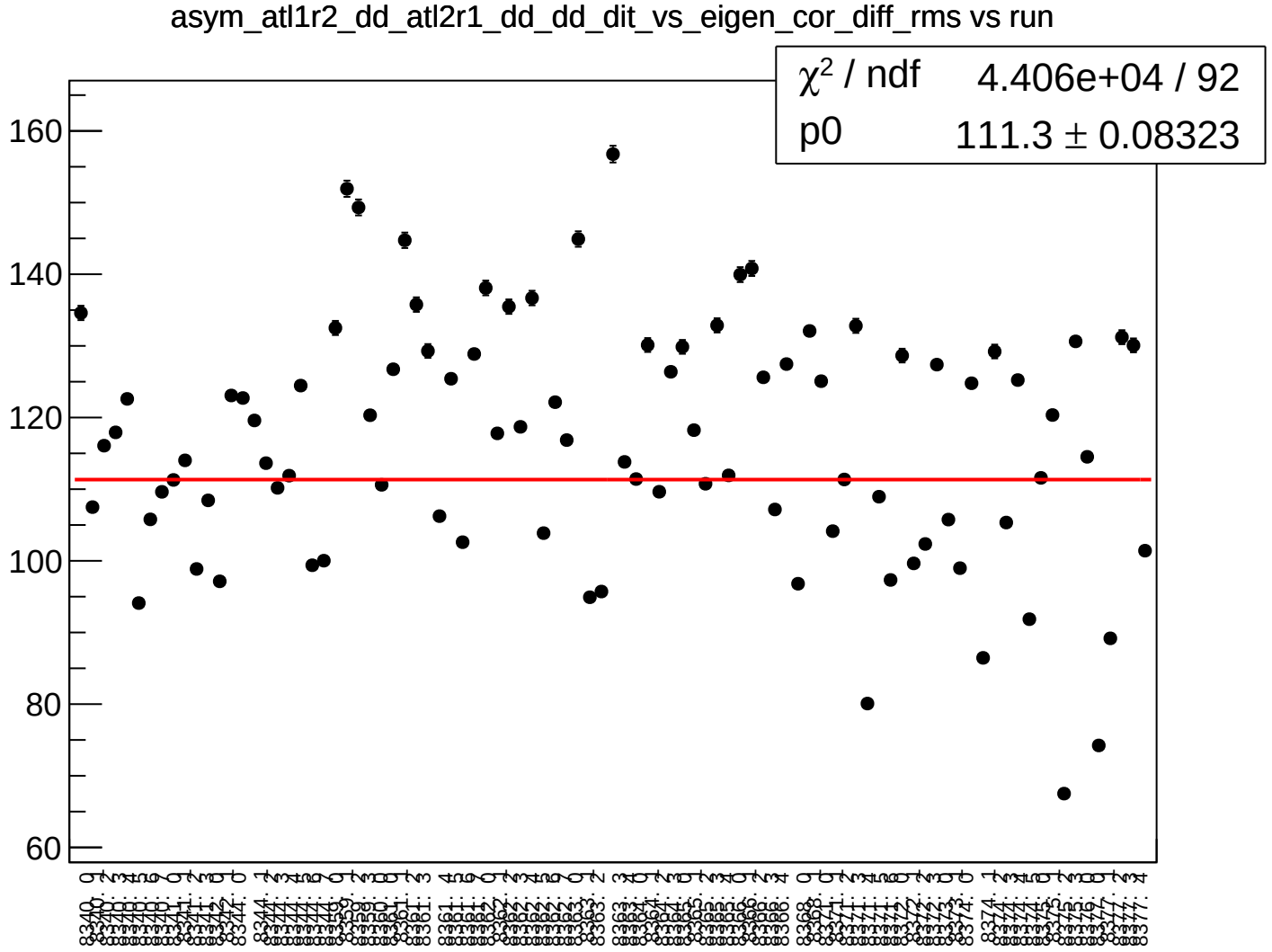

pull1D
Entries 93
Mean −0.1093
Std Dev 0.8983
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

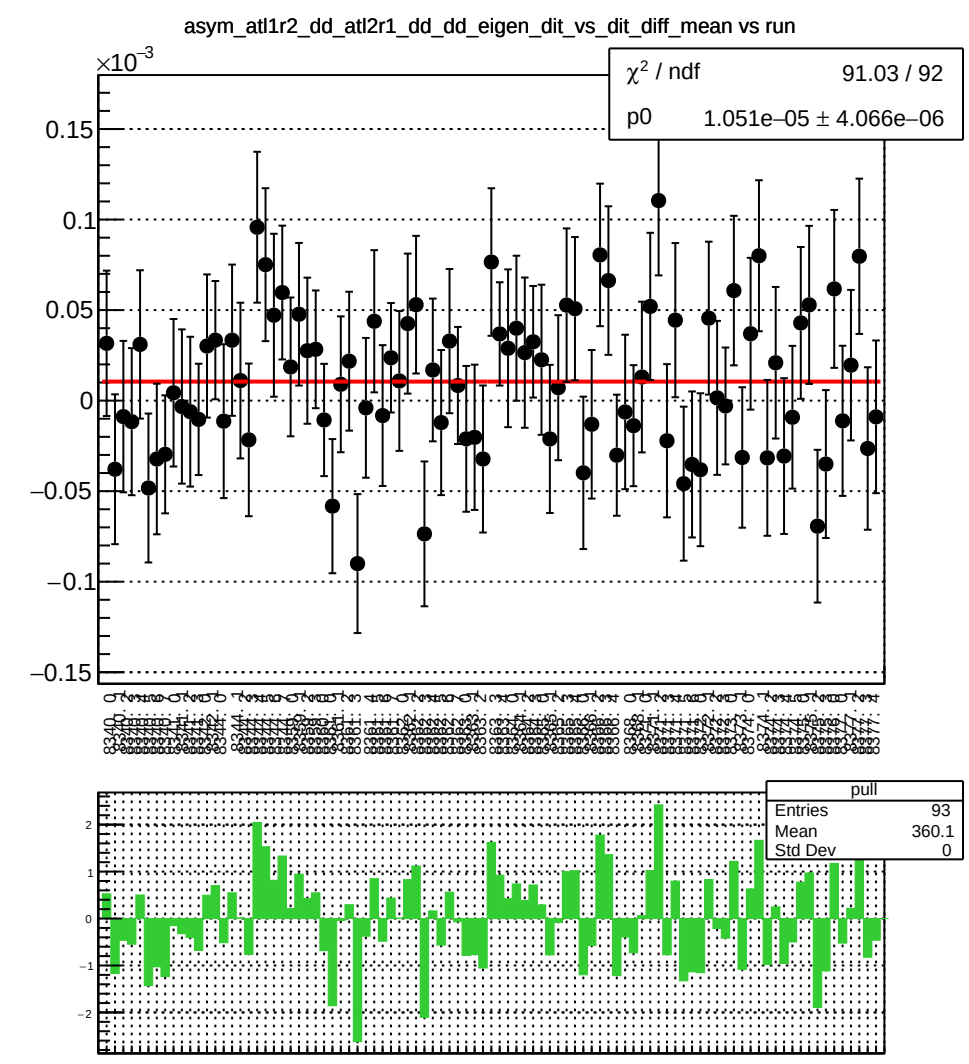

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.659e+05 / 92
p0 4.791e−10 ± 5.143e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

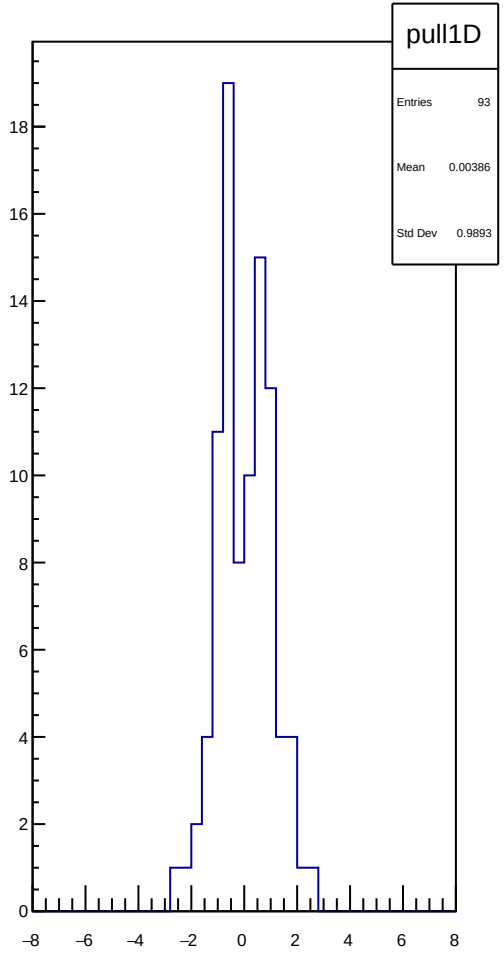

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

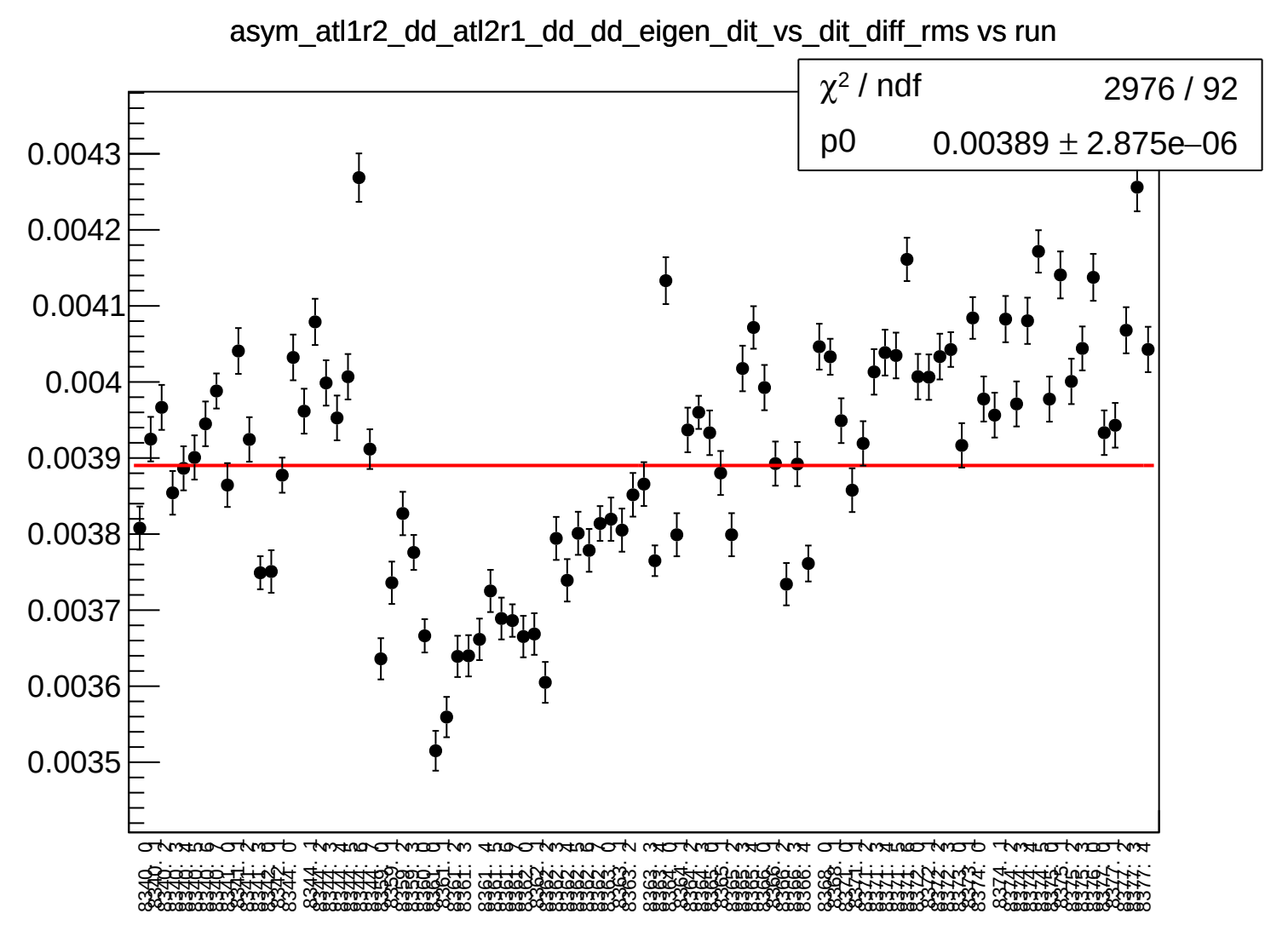

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60


asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

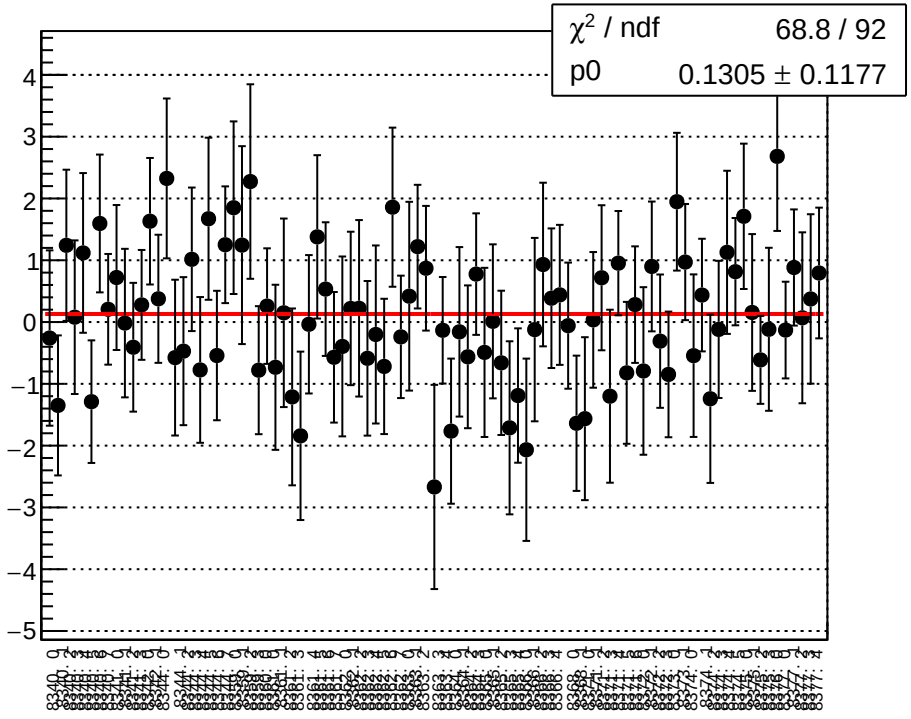

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

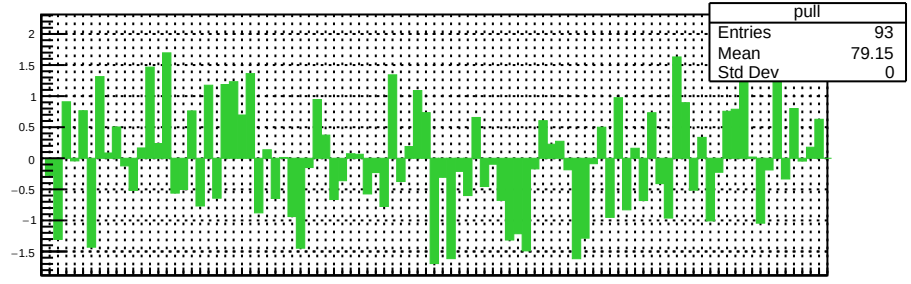

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.03 / 92
p0 1.051e−05 ± 4.066e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean 360.1
Std Dev 0
2
1
0
−1
−2

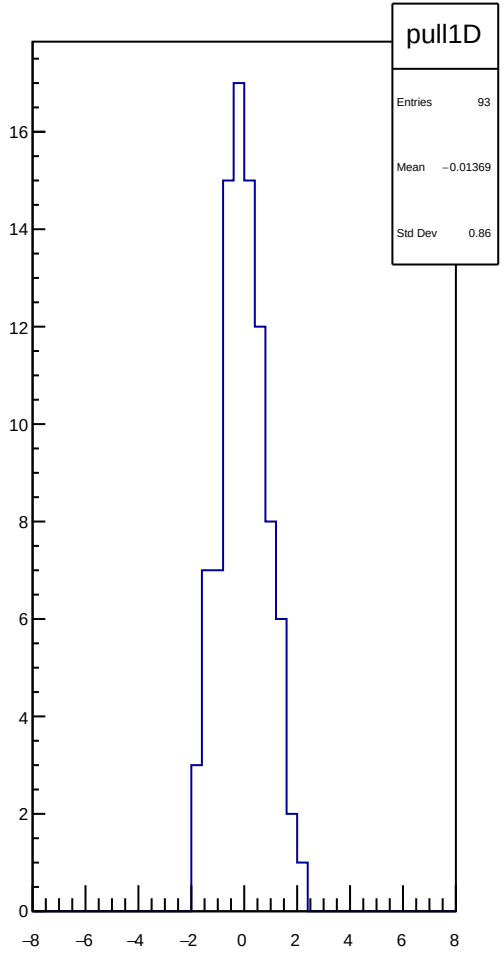

pull1D
Entries 93
Mean 0.00386
Std Dev 0.9893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

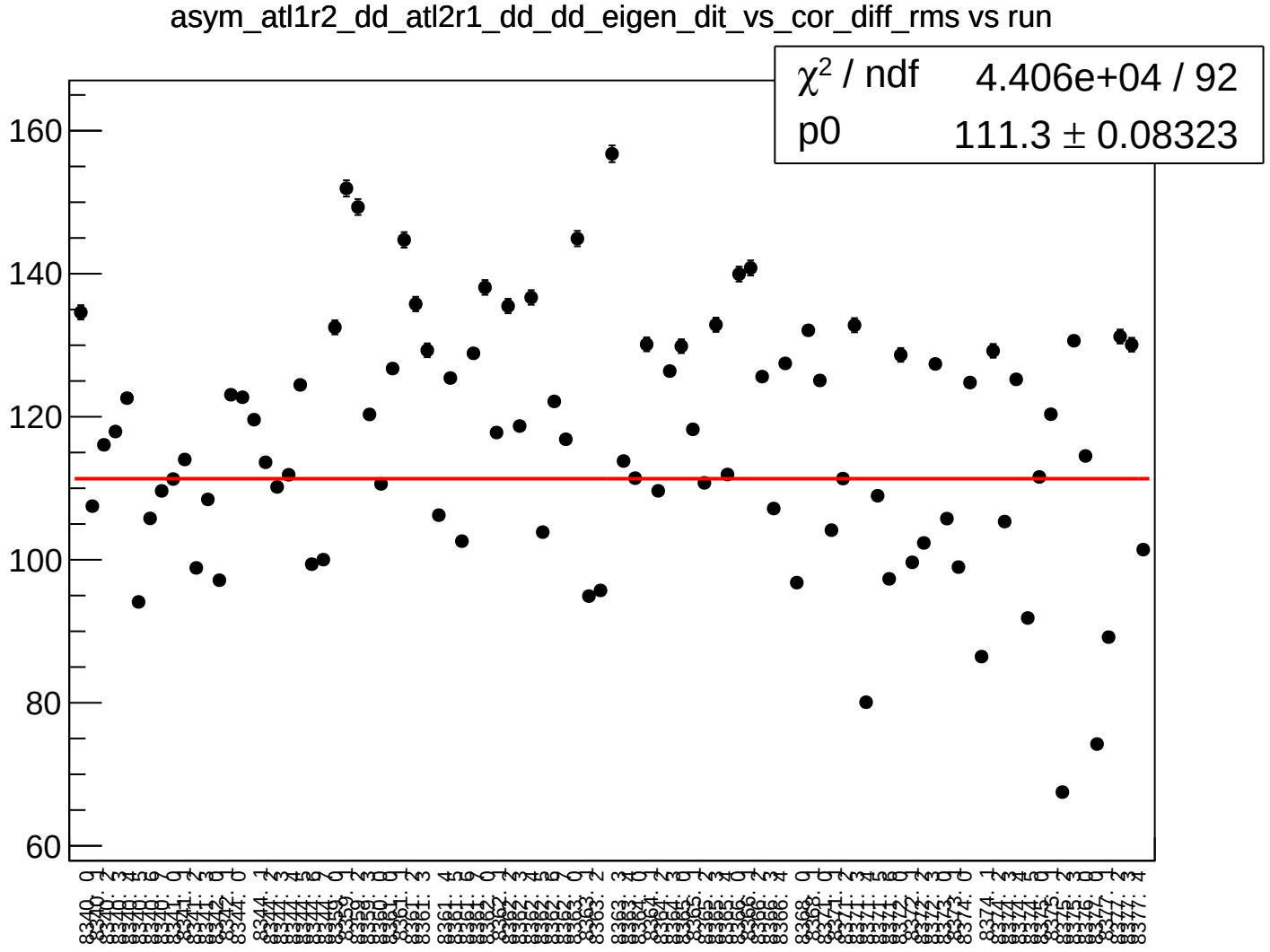

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2976 / 92
p0 0.00389 ± 2.875e−06
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035

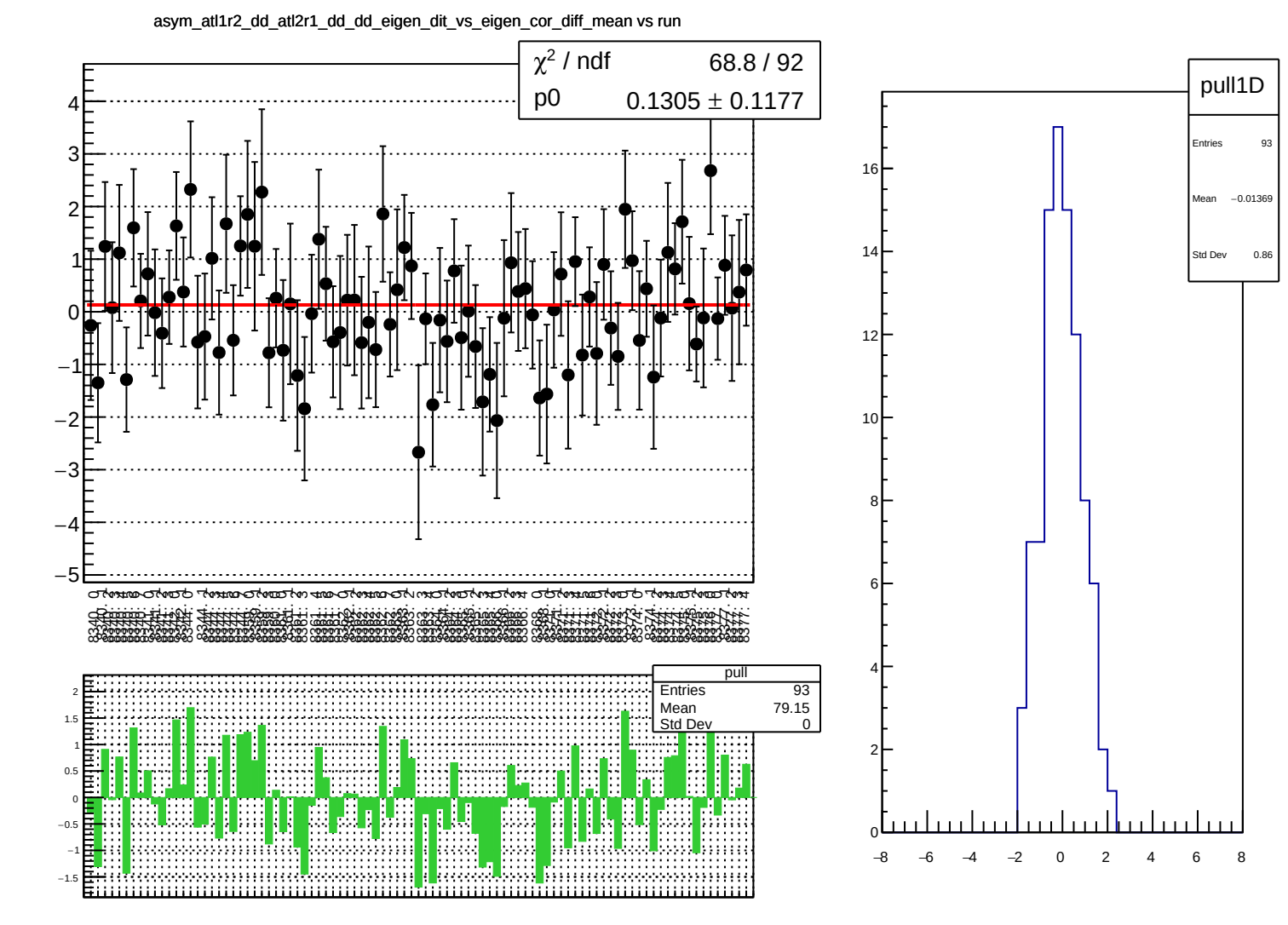
asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run

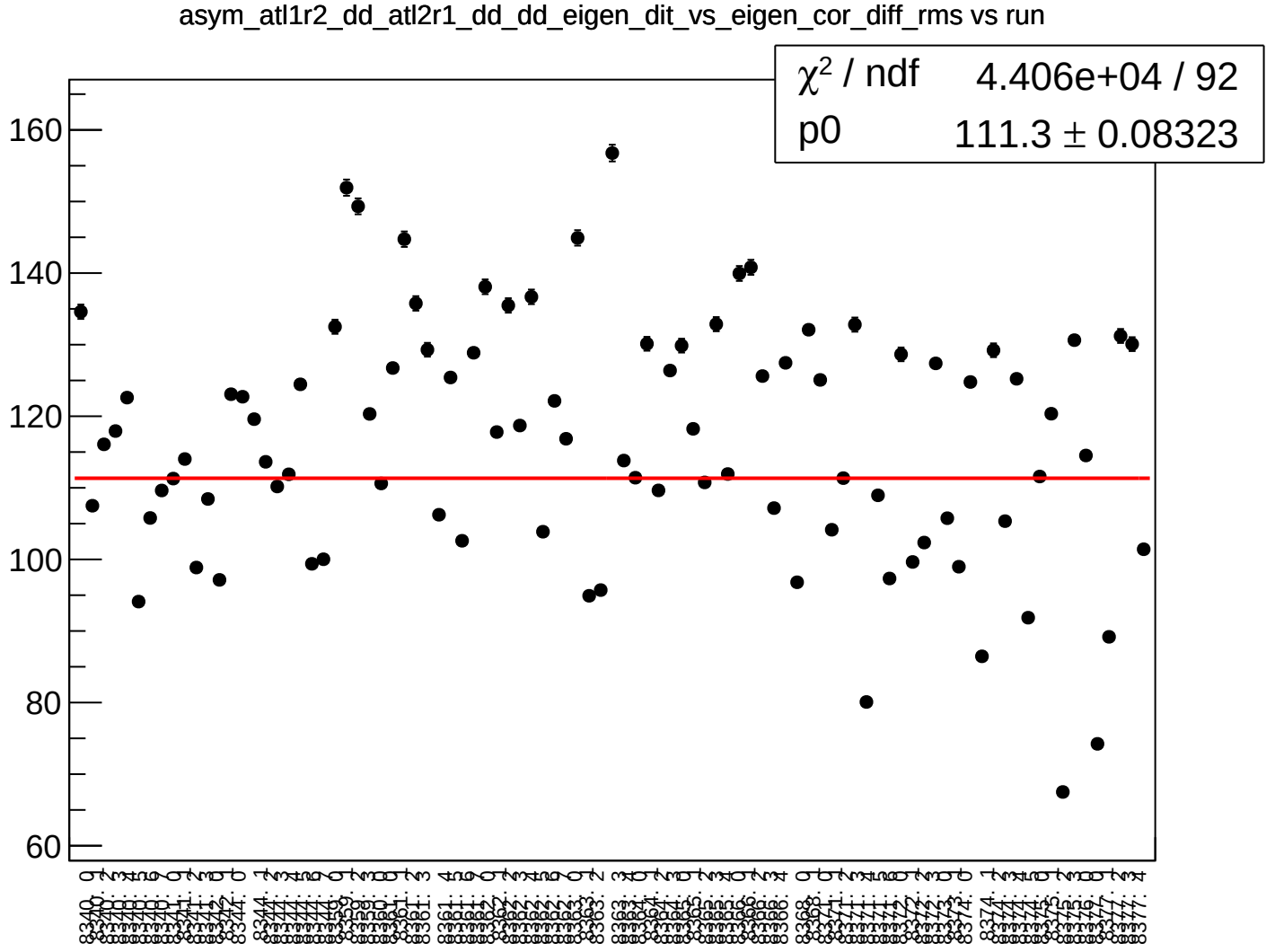


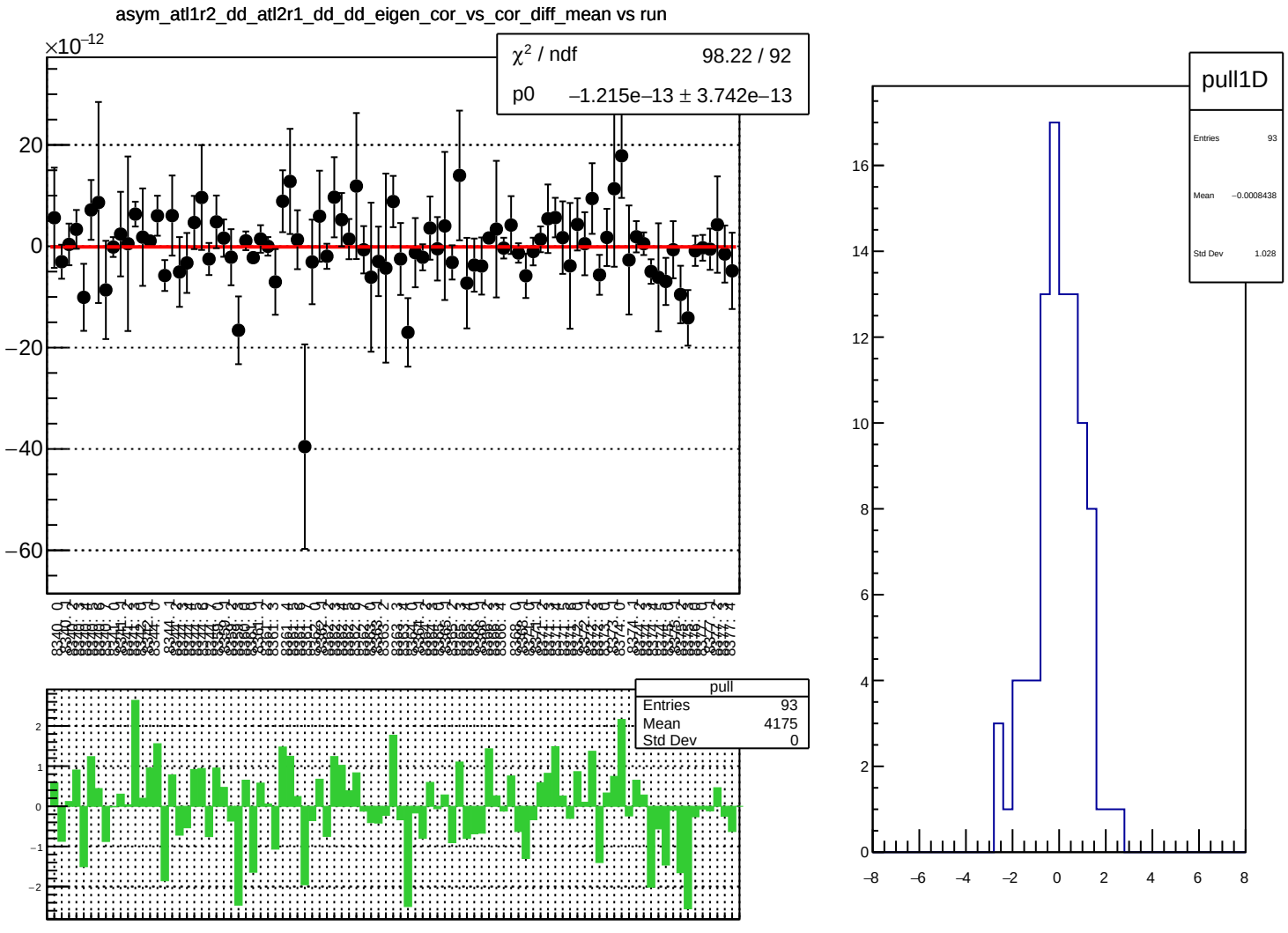


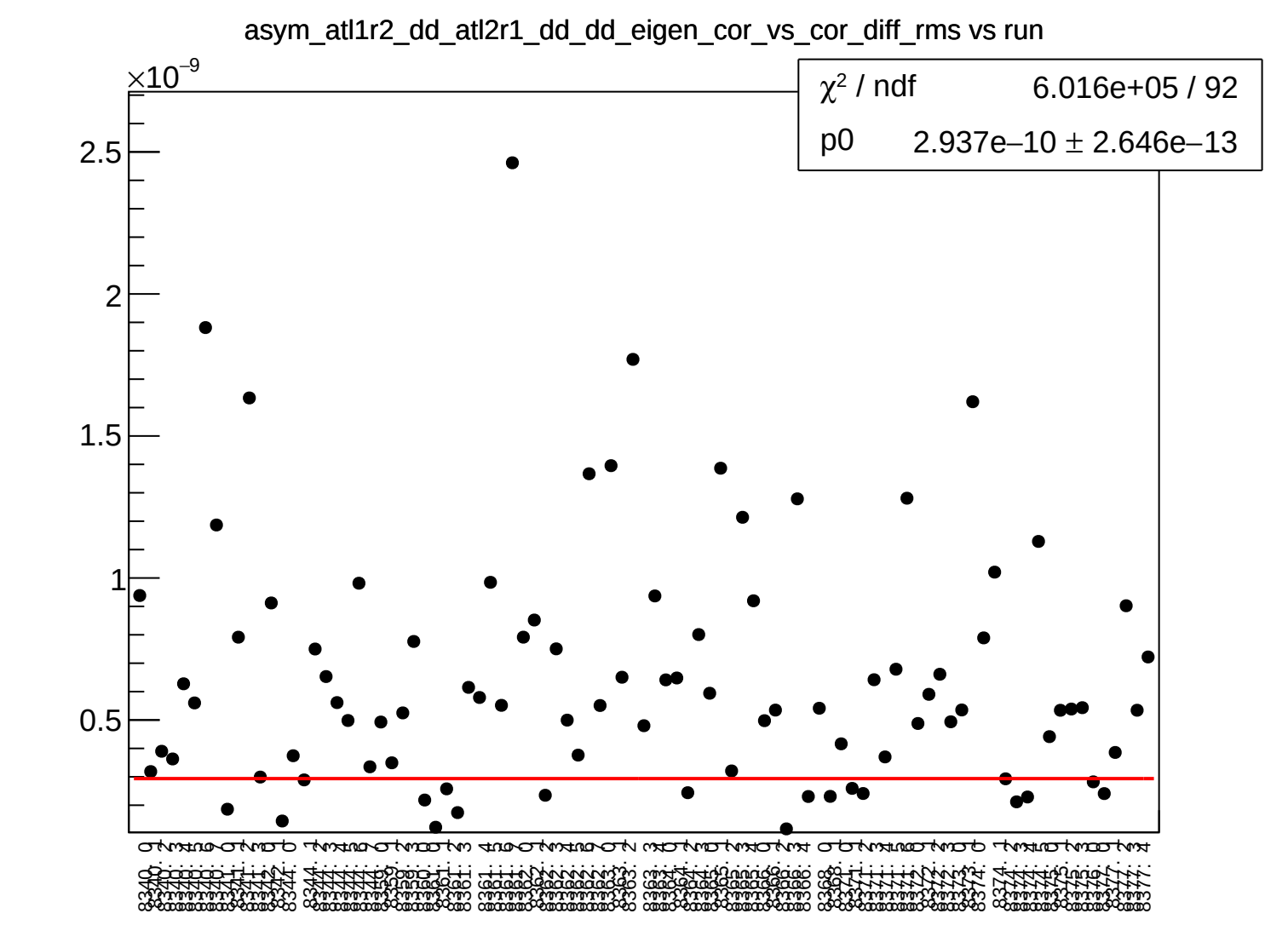


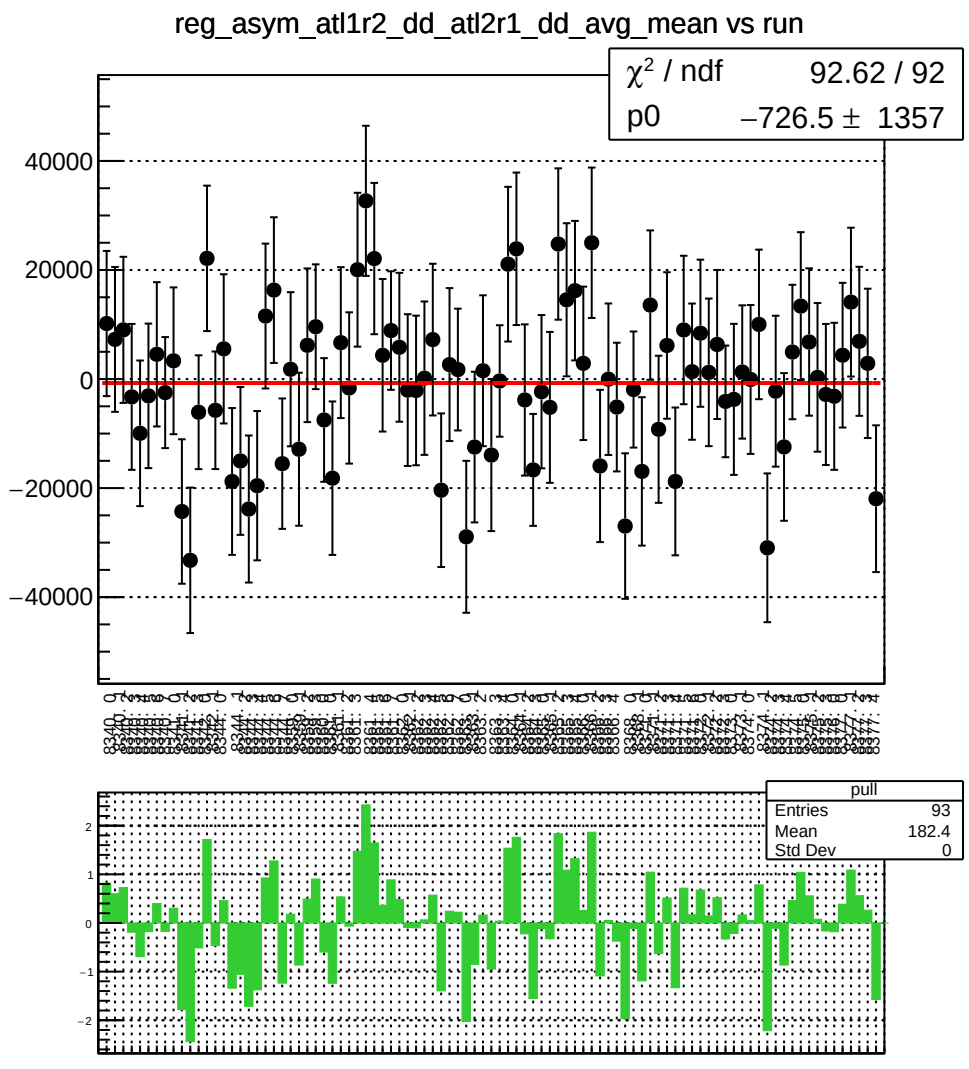

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

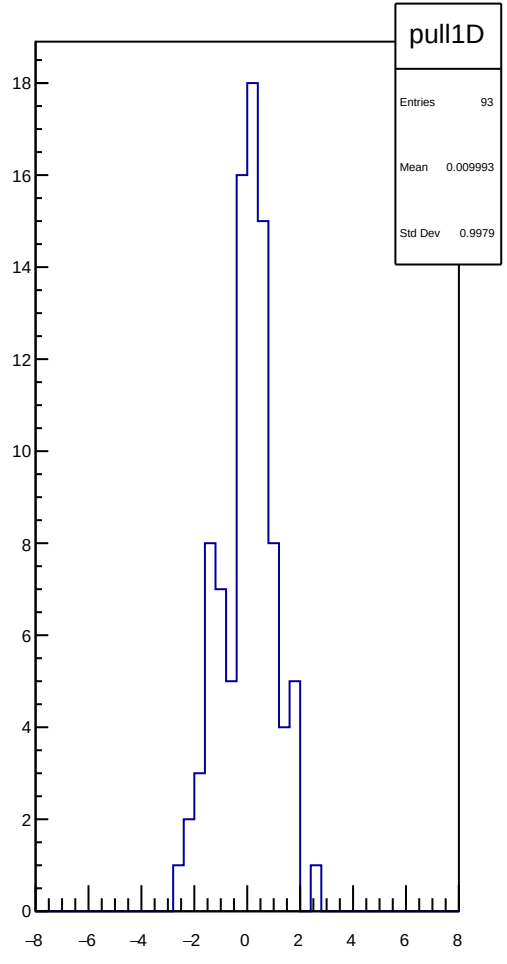

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.8 / 92
p0 0.1305 ± 0.1177
pull
Entries 93
Mean 79.15
Std Dev 0
pull1D
Entries 93
Mean −0.01369
Std Dev 0.86

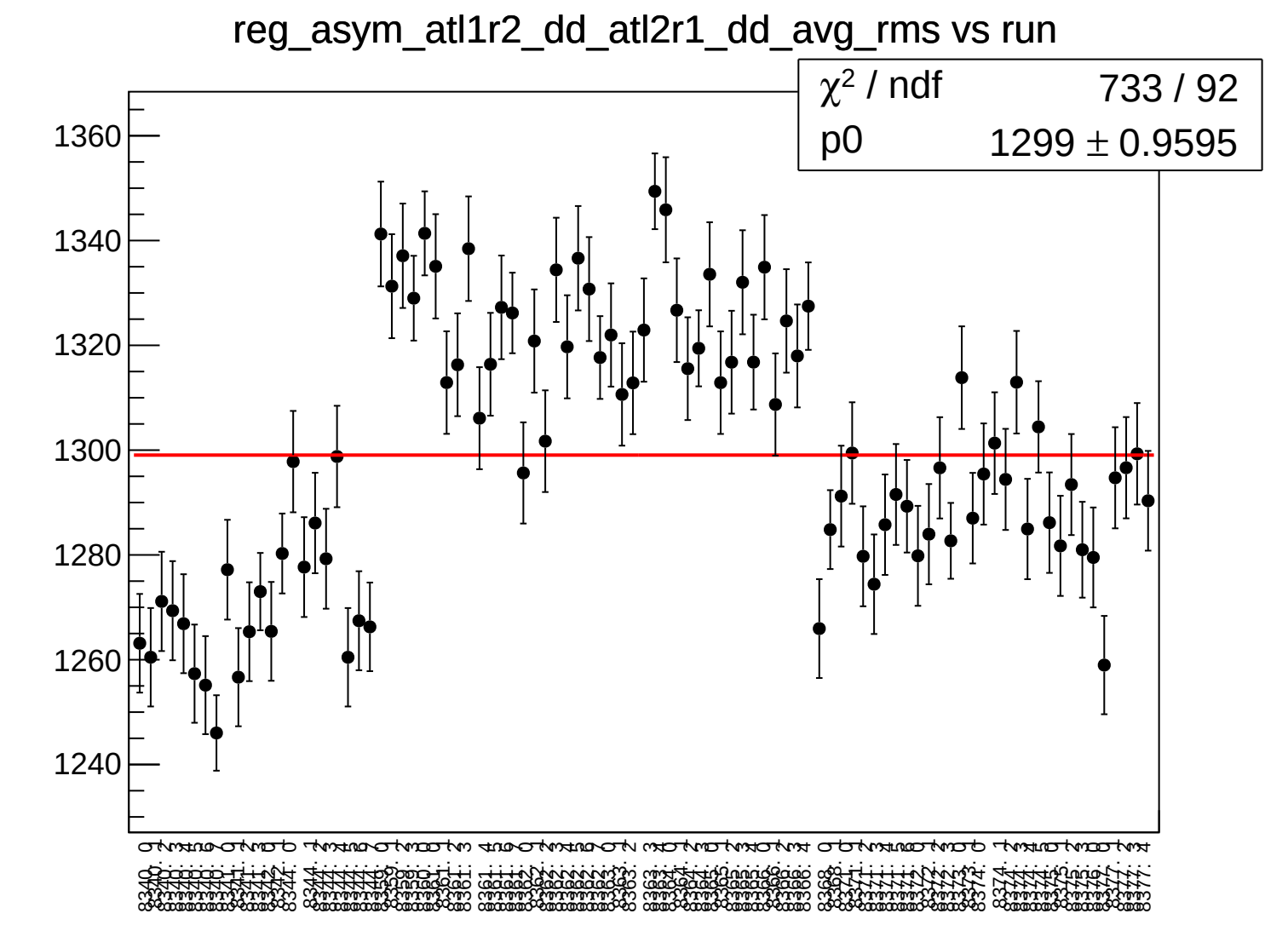

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 92
p0 111.3 ± 0.08323
160
140
120
100
80
60

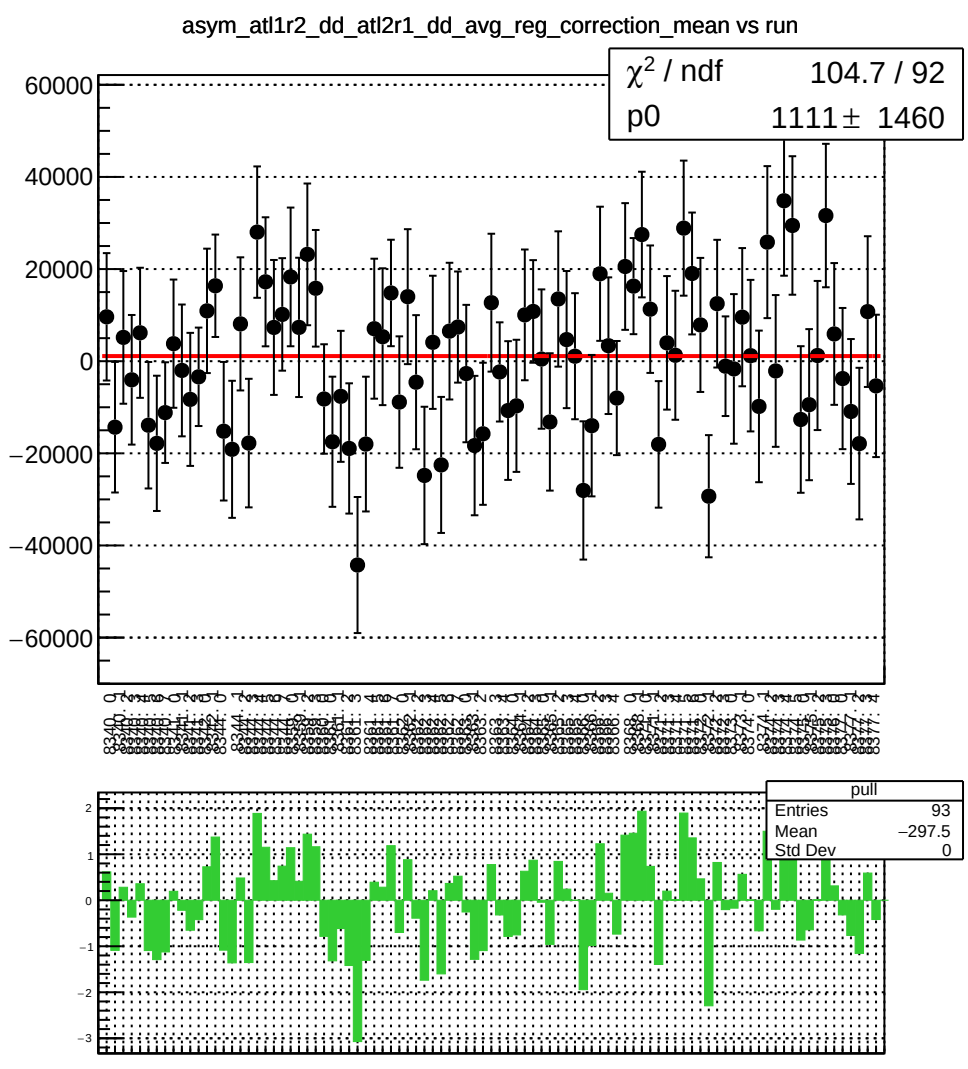

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.22 / 92
p0 −1.215e−13 ± 3.742e−13
20
0
−20
−40
−60
pull
Entries 93
Mean 4175
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0008438
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

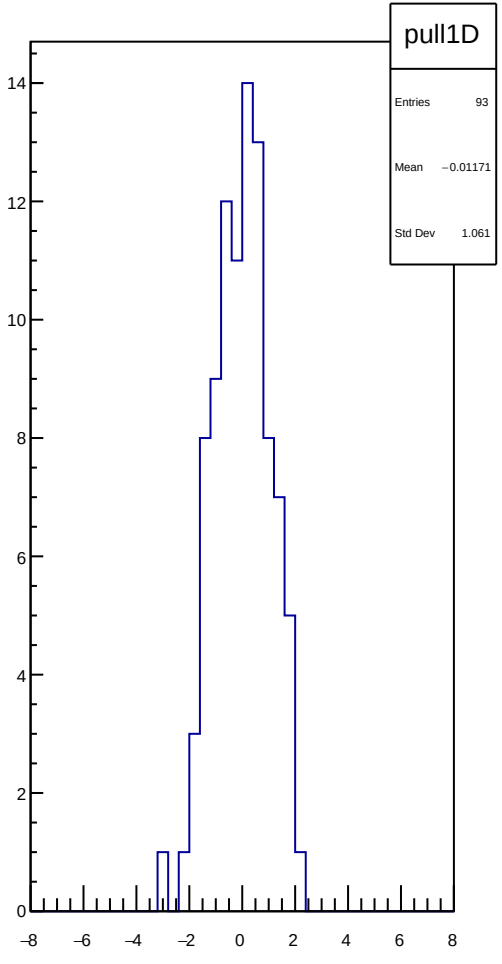

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.016e+05 / 92
p0 2.937e−10 ± 2.646e−13
2.5
2
1.5
1
0.5

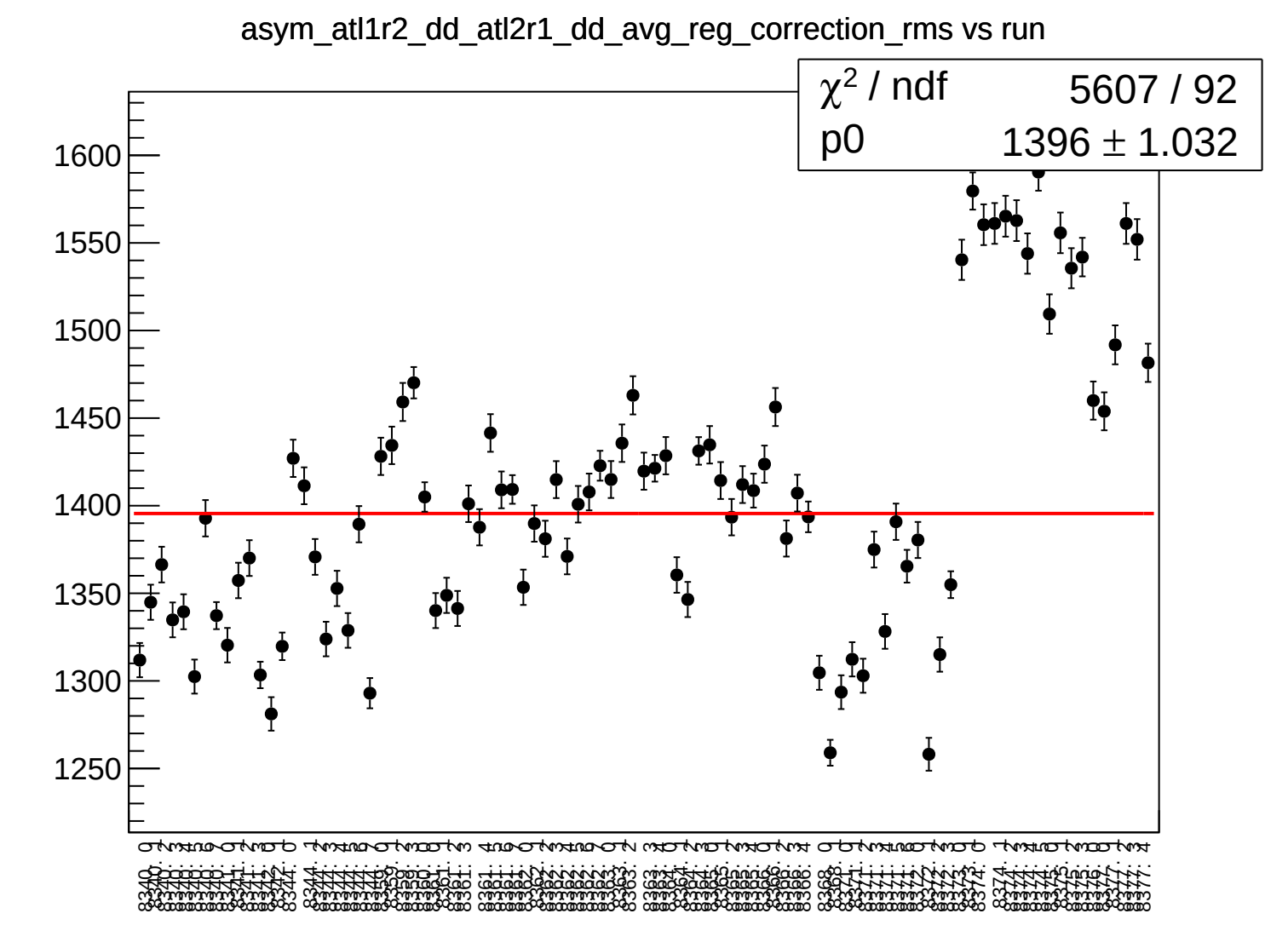

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.62 / 92
p0 −726.5 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2

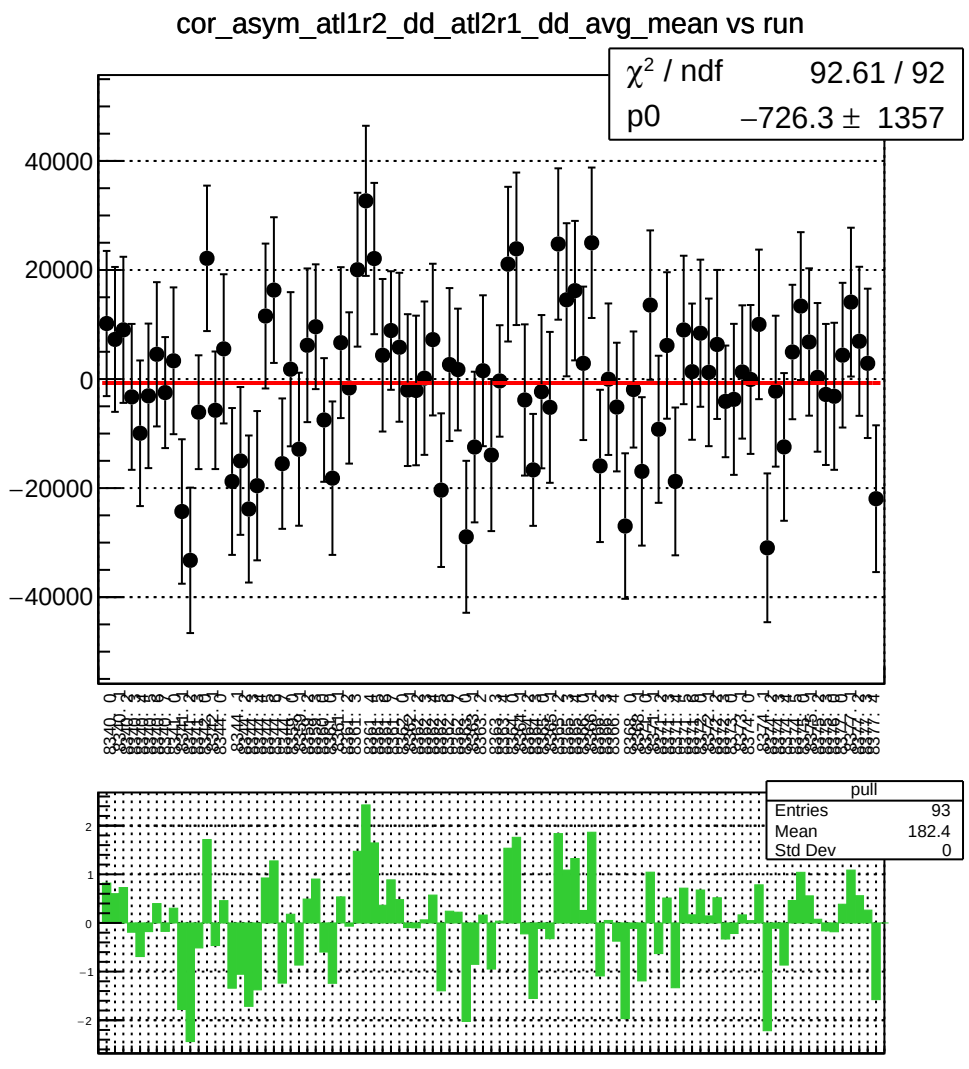

pull1D
Entries 93
Mean 0.009993
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

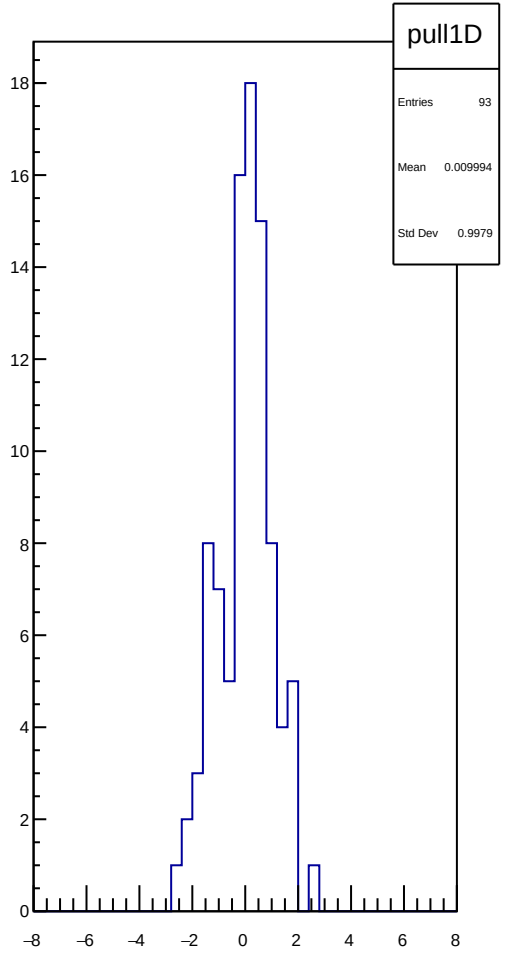

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

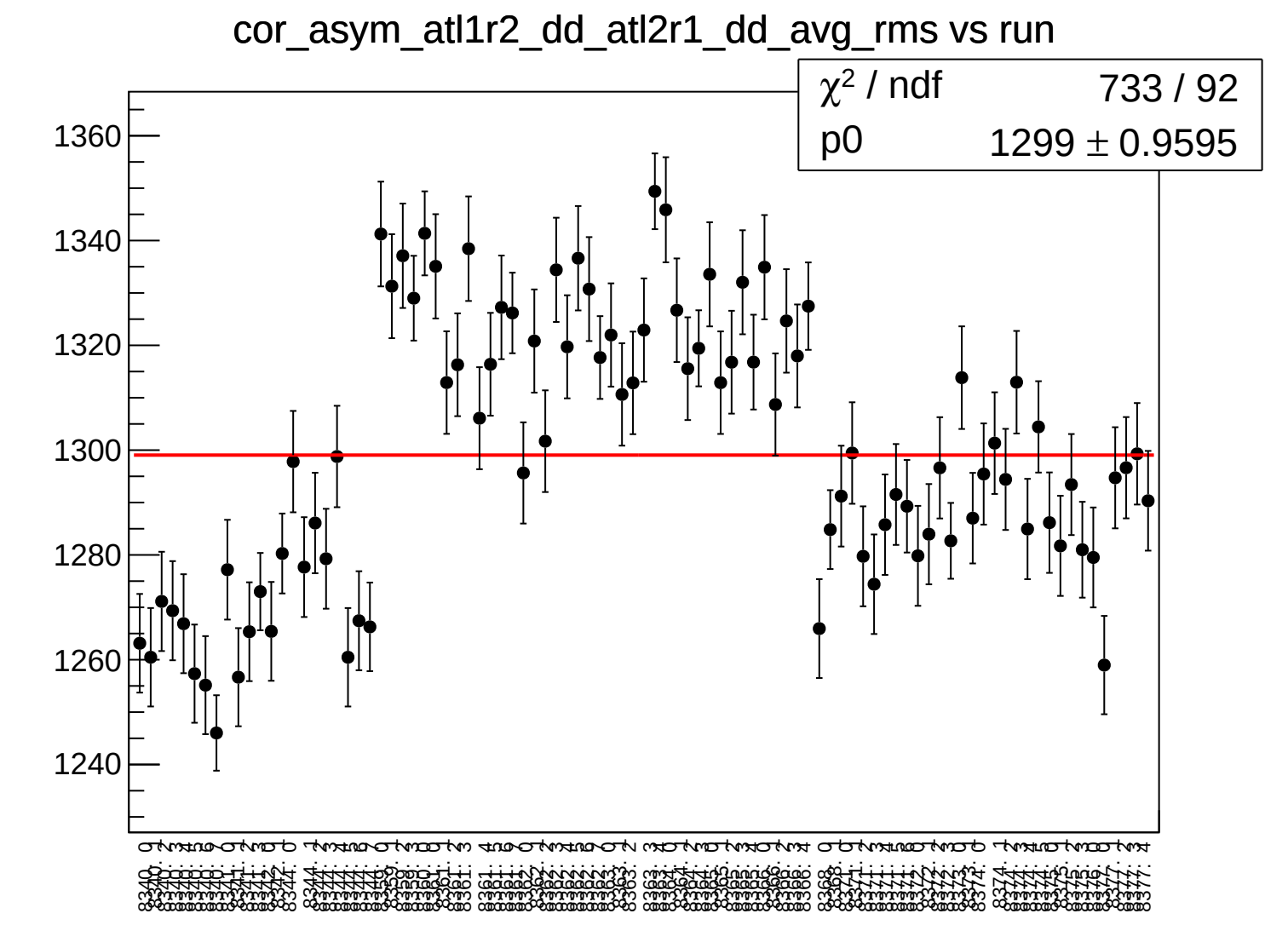

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
pull
Entries 93
Mean −297.5
Std Dev 0

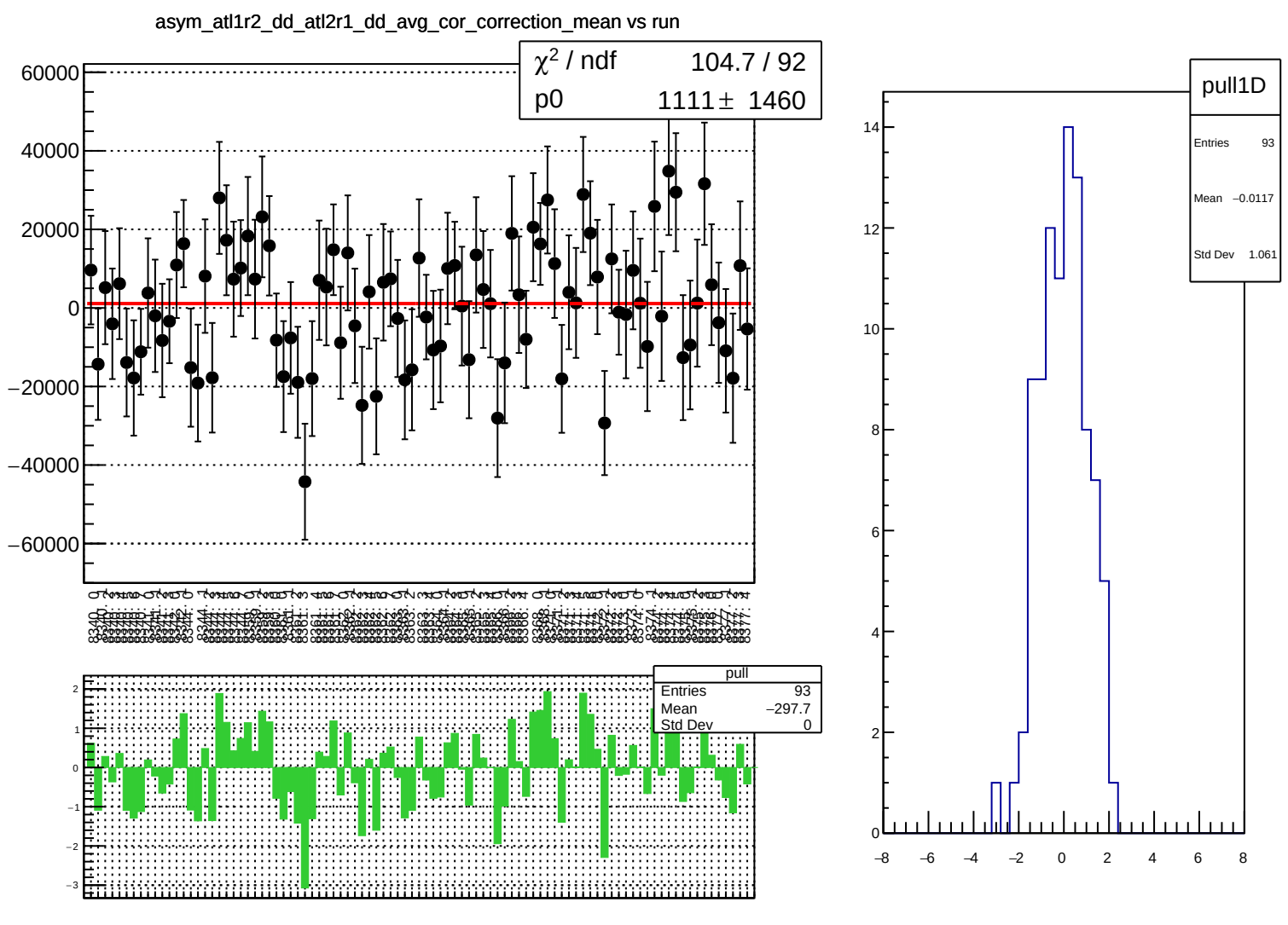

pull1D
Entries 93
Mean −0.01171
Std Dev 1.061

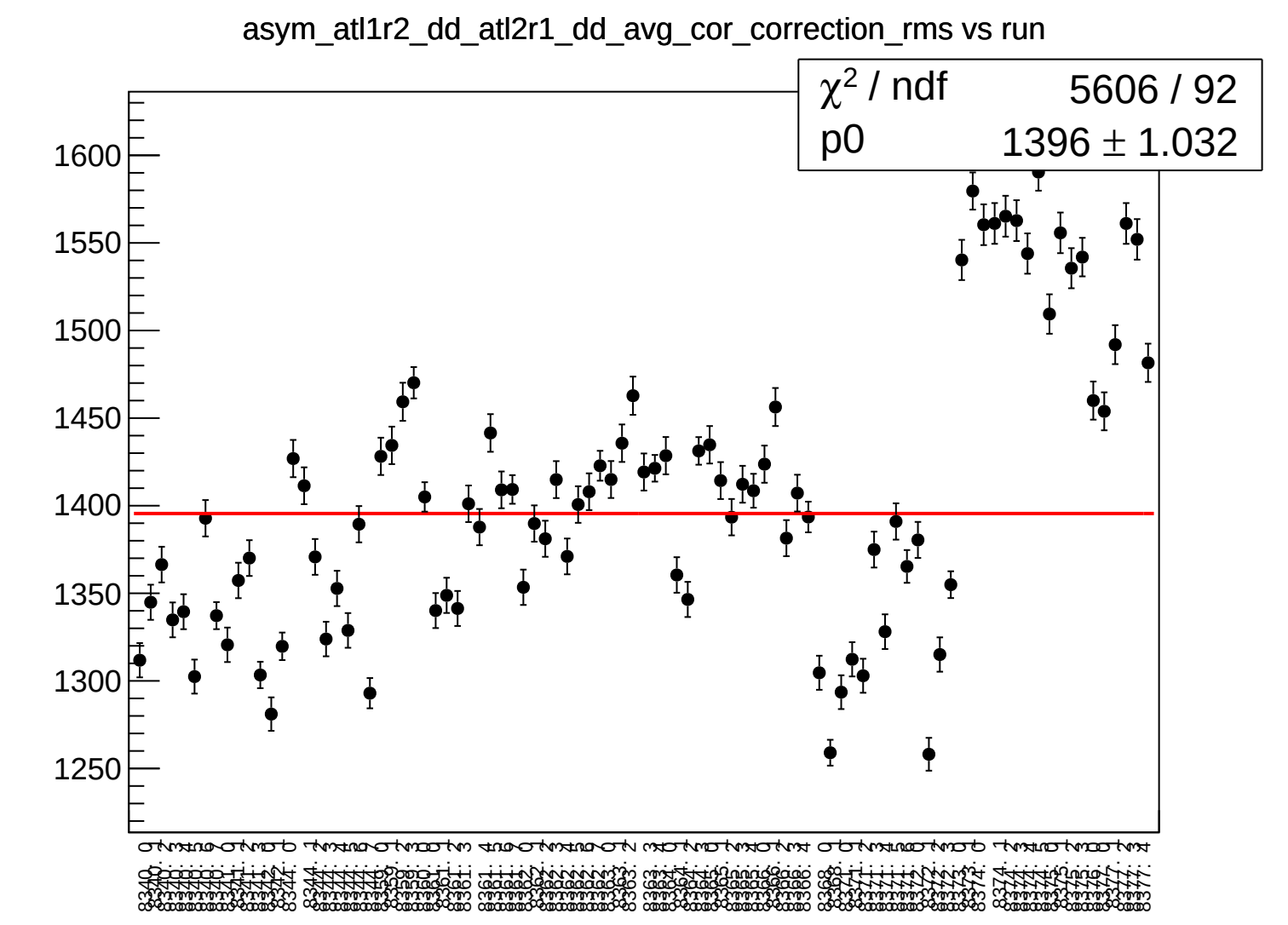

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5607 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

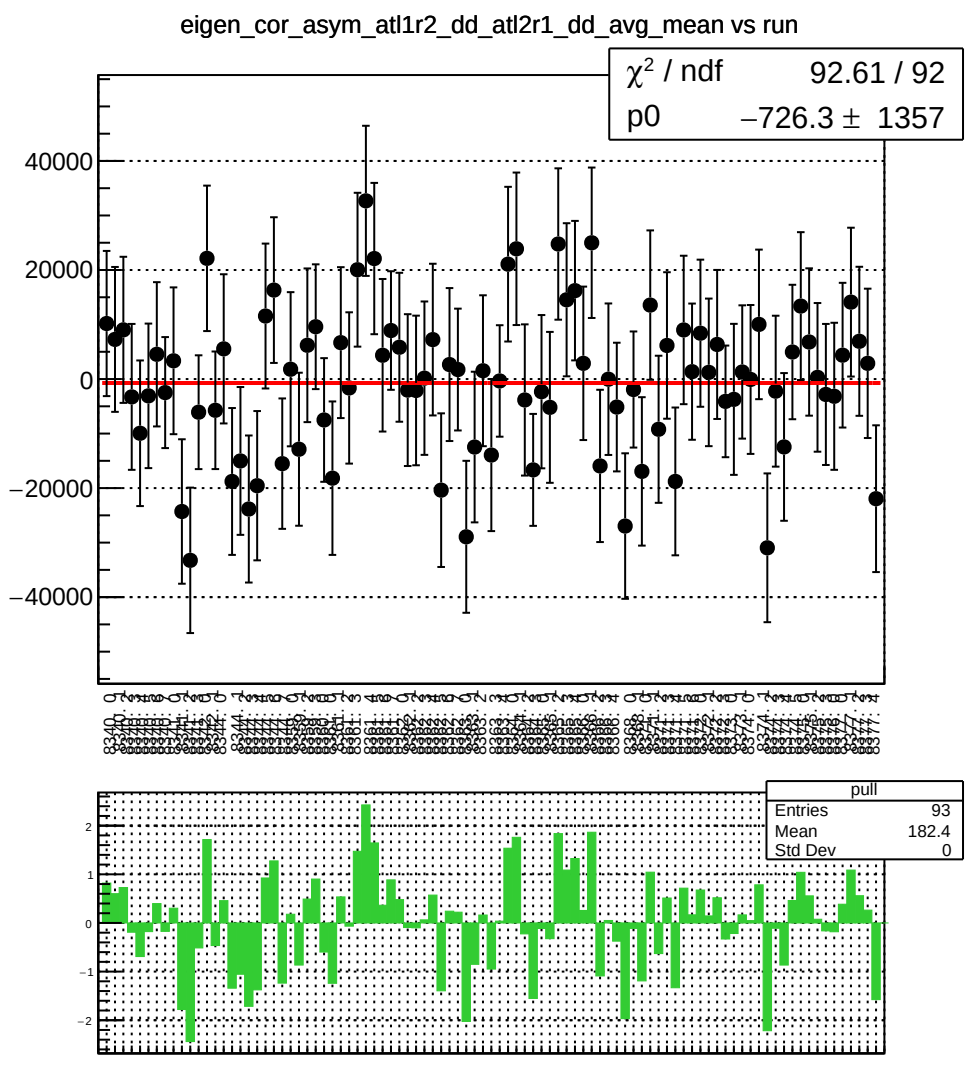

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.61 / 92
p0 −726.3 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2

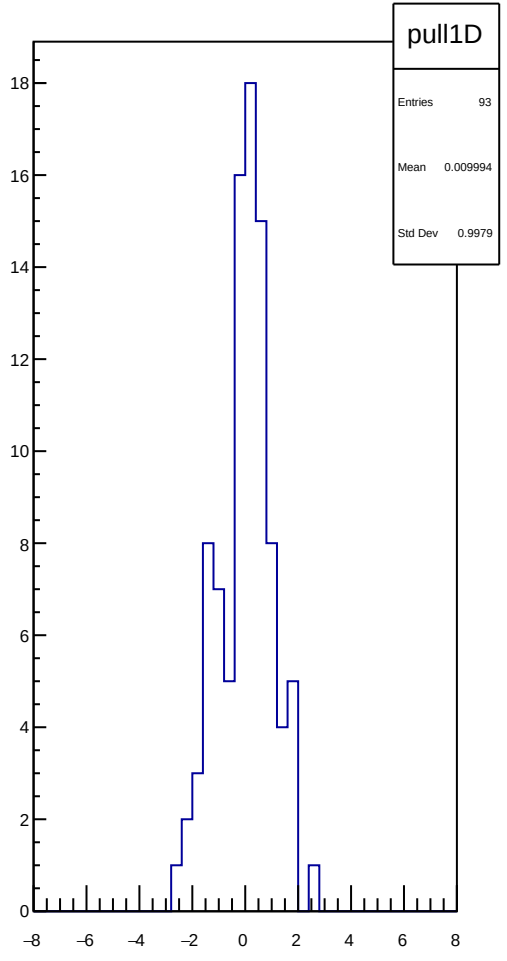

pull1D
Entries 93
Mean 0.009994
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

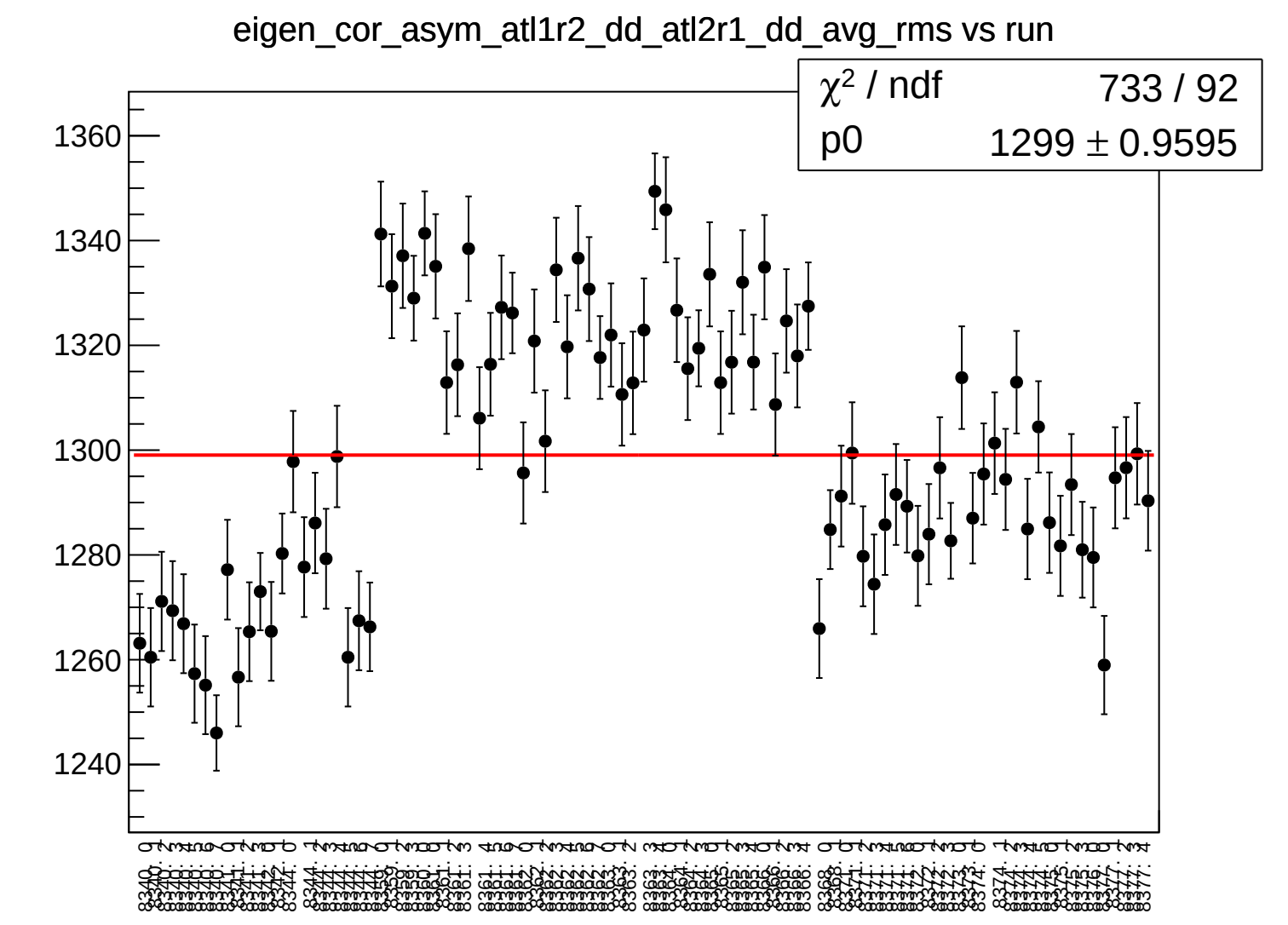

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

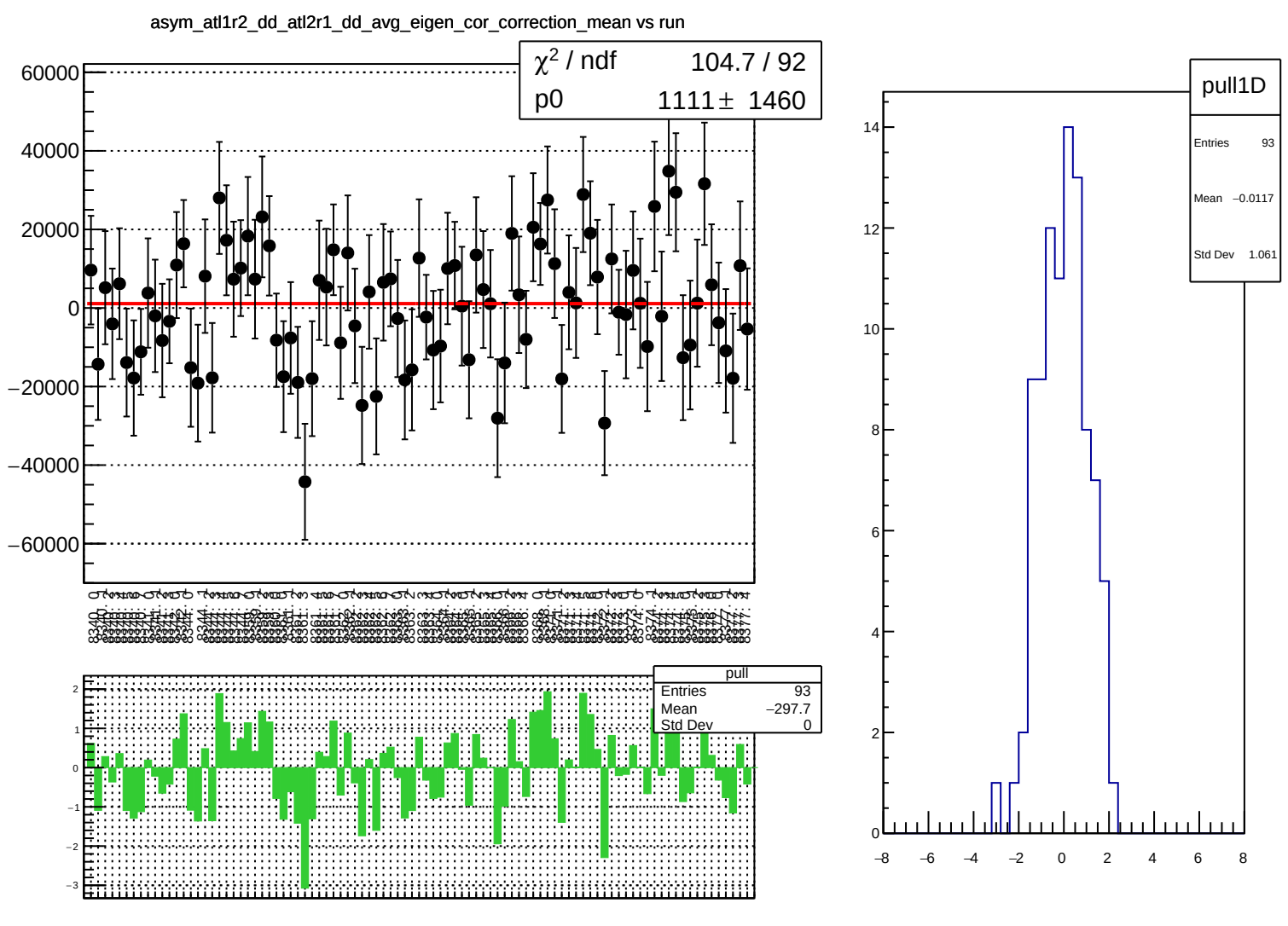

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −297.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0117
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

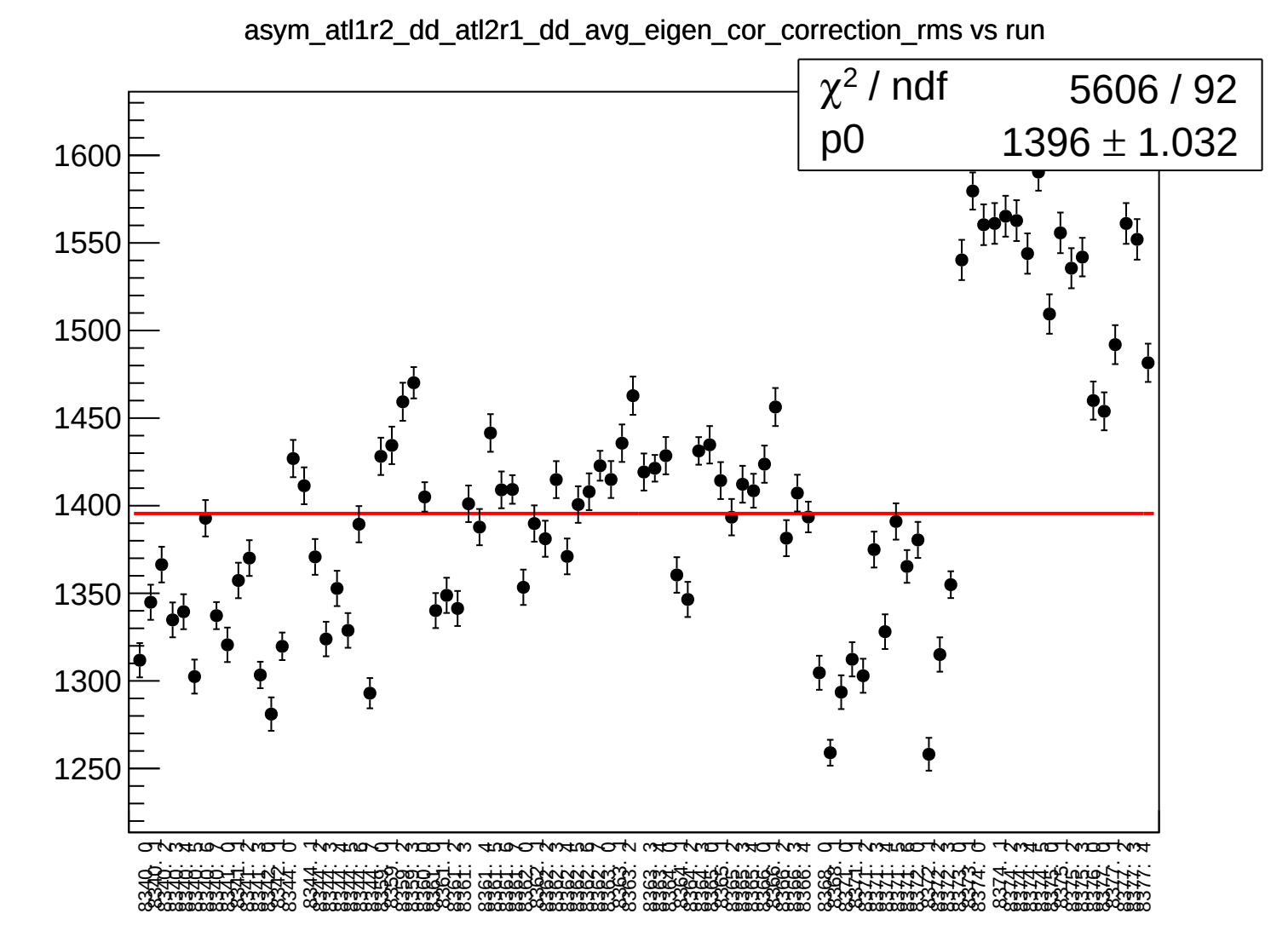

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5606 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

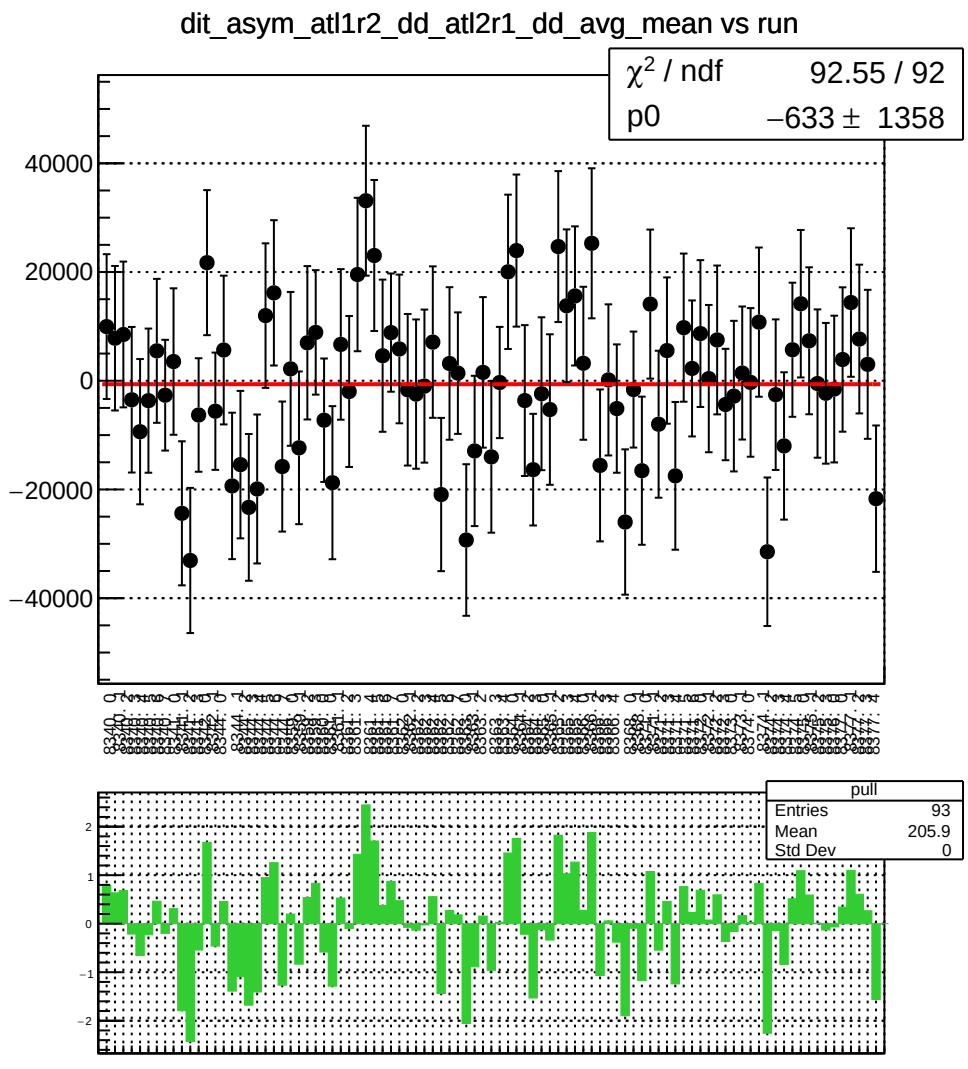

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.61 / 92
p0 −726.3 ± 1357
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 182.4
Std Dev 0
2
1
0
−1
−2

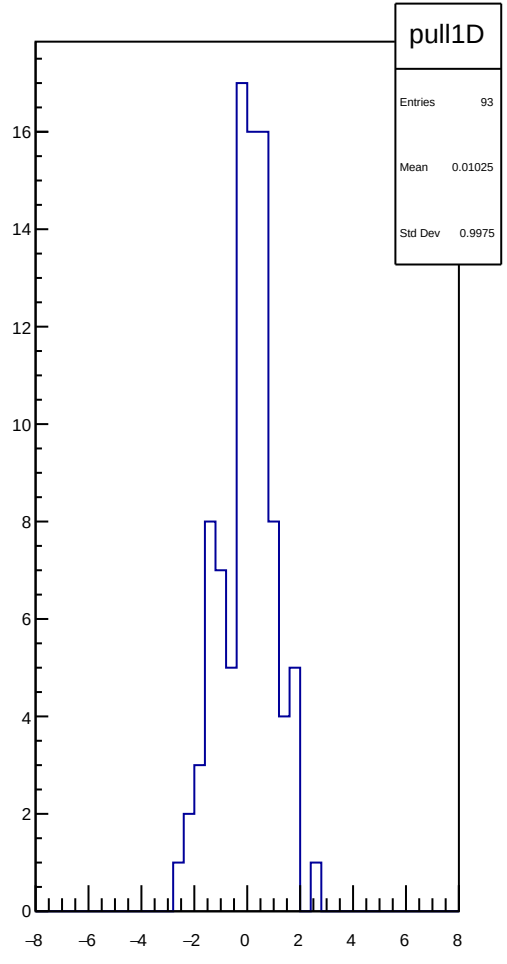

pull1D
Entries 93
Mean 0.009994
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

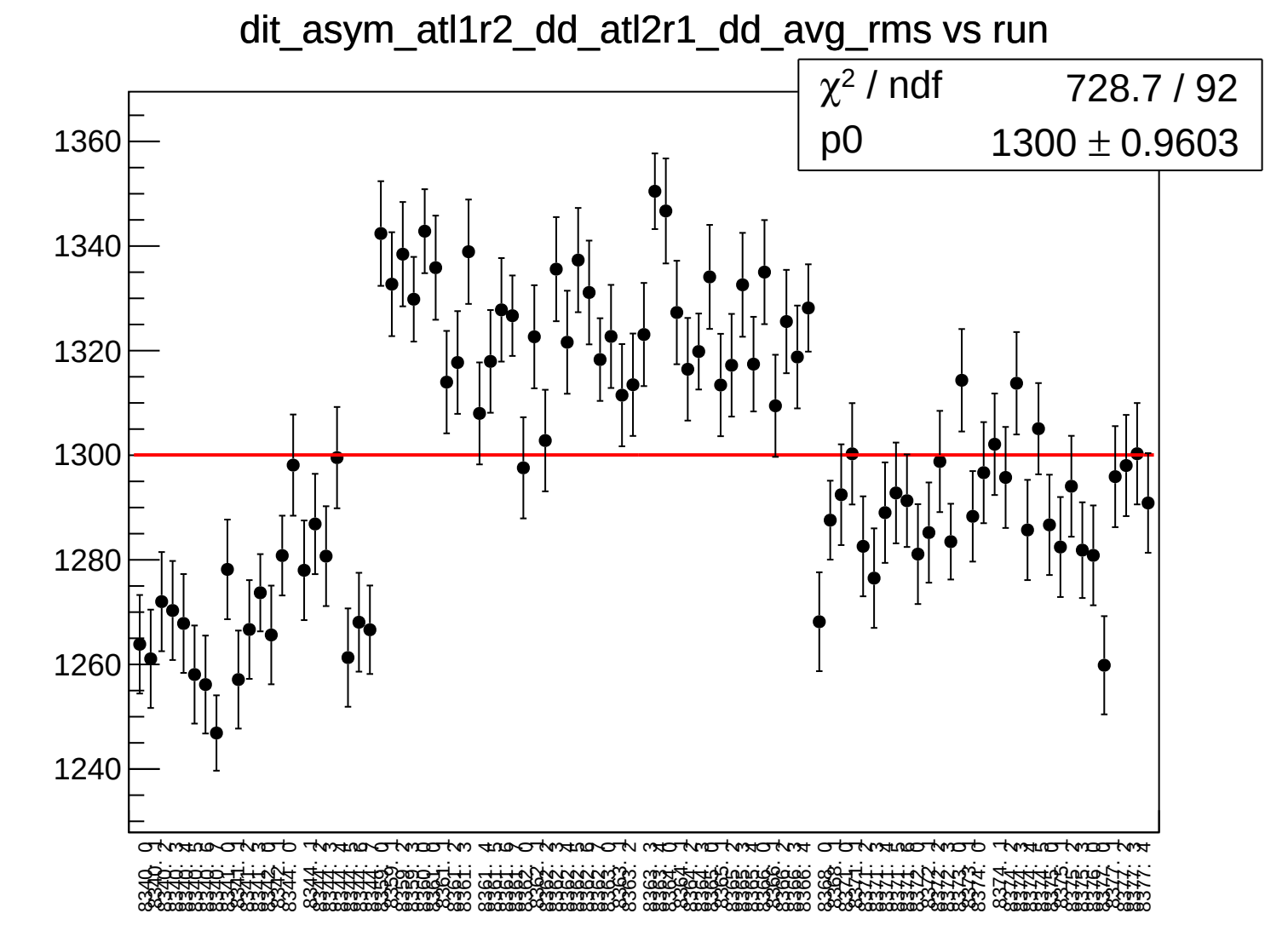

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 733 / 92
p0 1299 ± 0.9595
1360
1340
1320
1300
1280
1260
1240

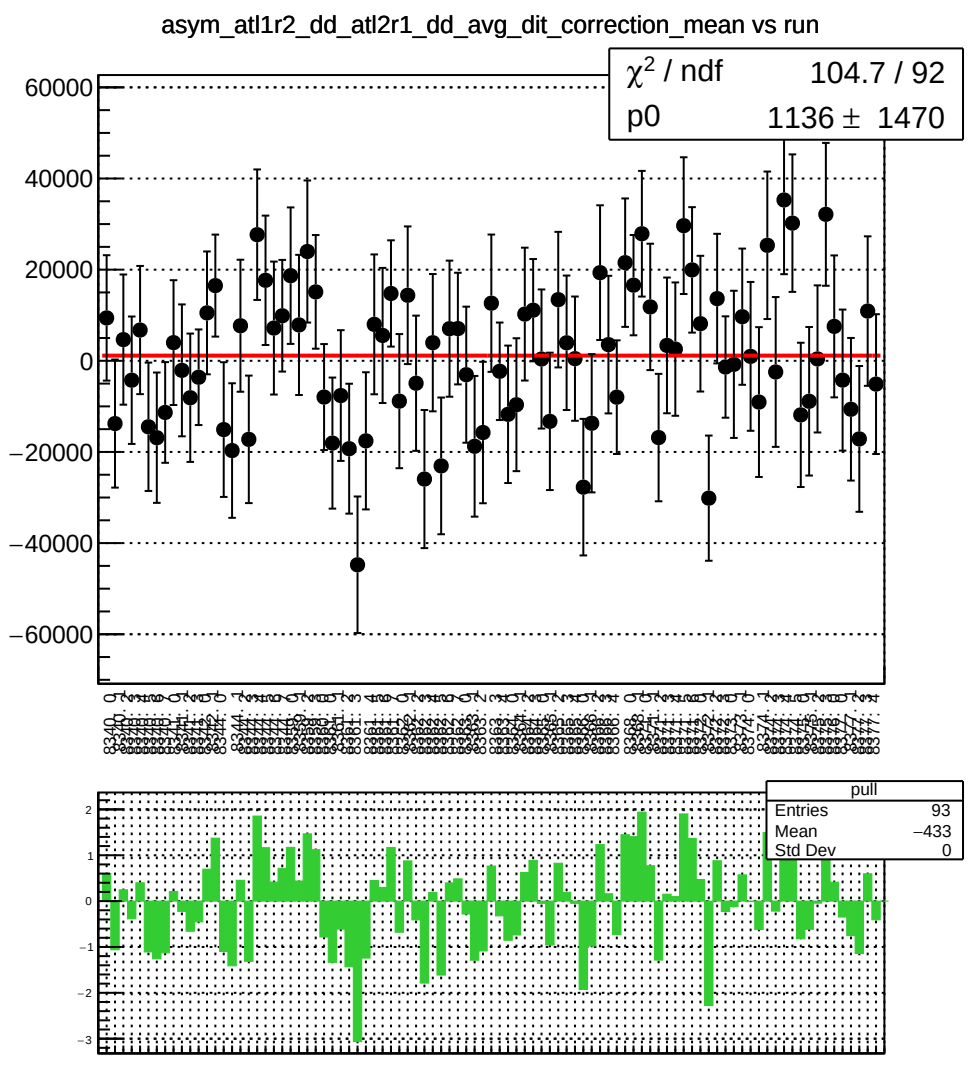

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1111 ± 1460
pull
Entries 93
Mean −297.7
Std Dev 0
pull1D
Entries 93
Mean −0.0117
Std Dev 1.061

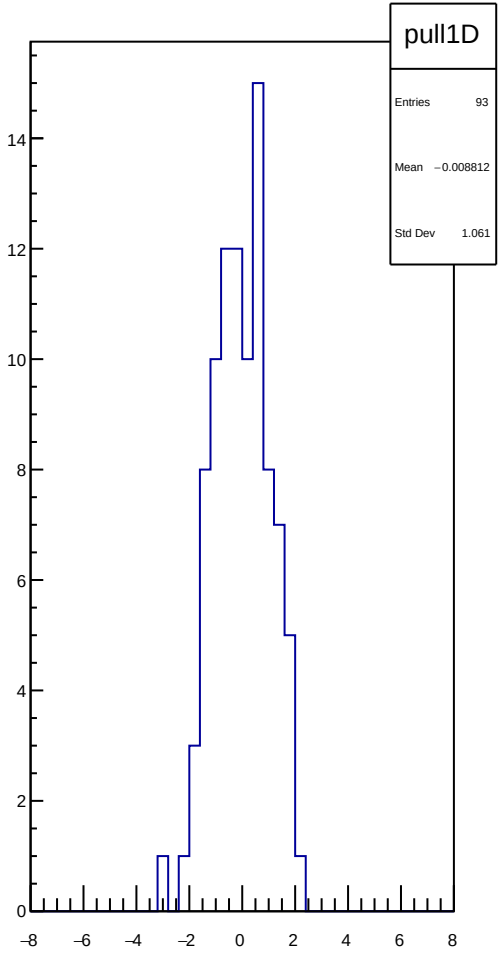

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5606 / 92
p0 1396 ± 1.032
1600
1550
1500
1450
1400
1350
1300
1250

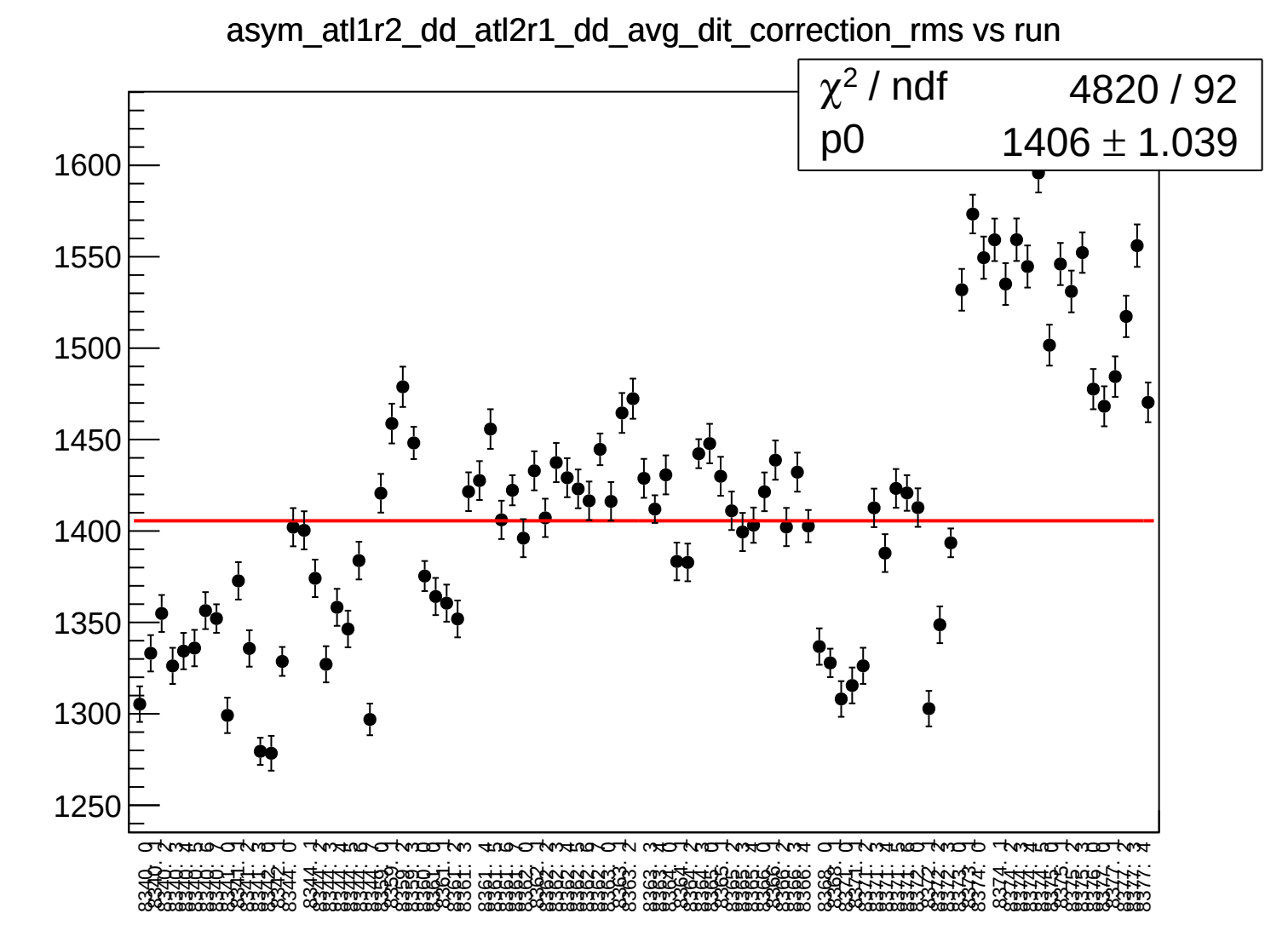

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.55 / 92
p0 −633 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 205.9
Std Dev 0
2
1
0
−1
−2

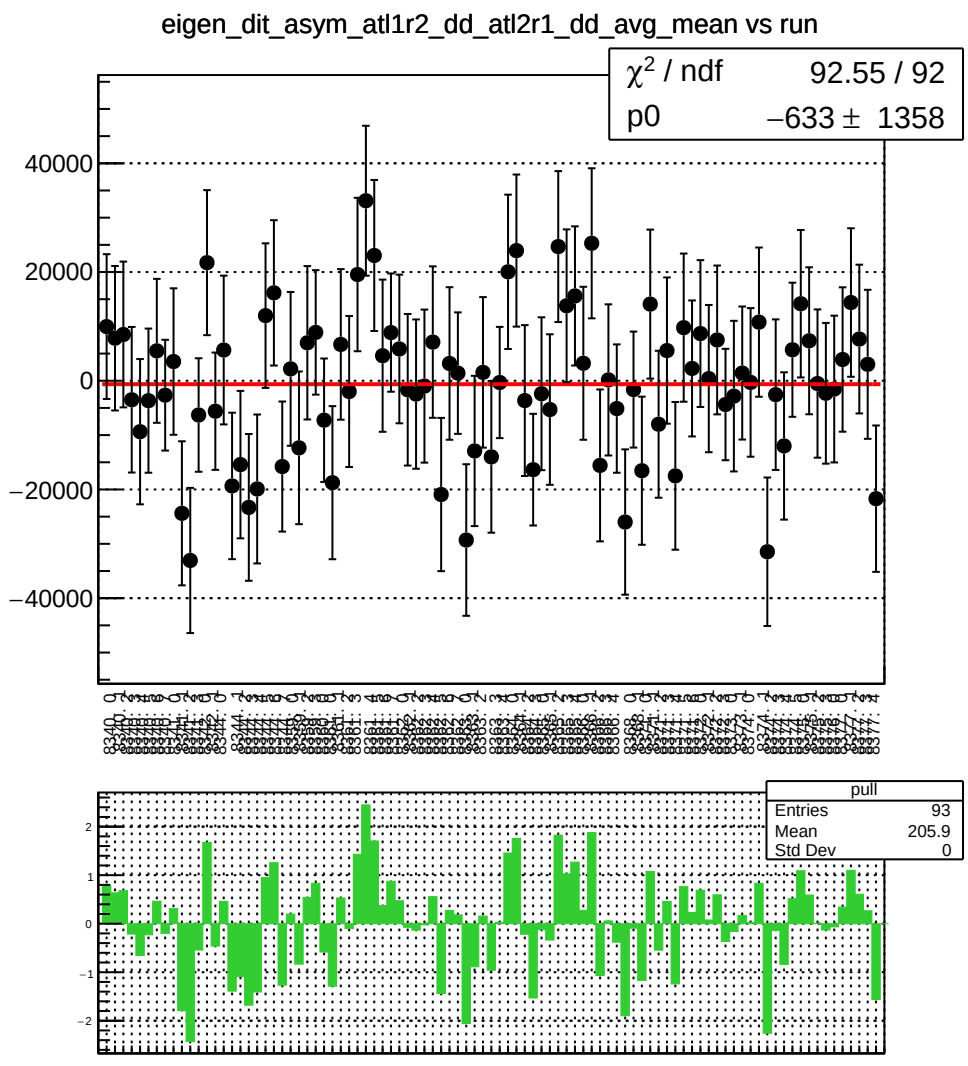

pull1D
Entries 93
Mean 0.01025
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

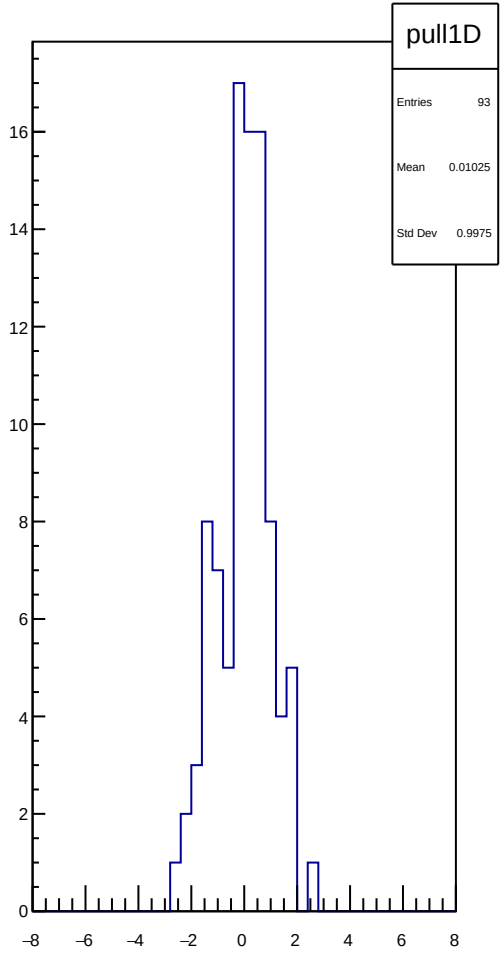

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 728.7 / 92
p0 1300 ± 0.9603
1360
1340
1320
1300
1280
1260
1240

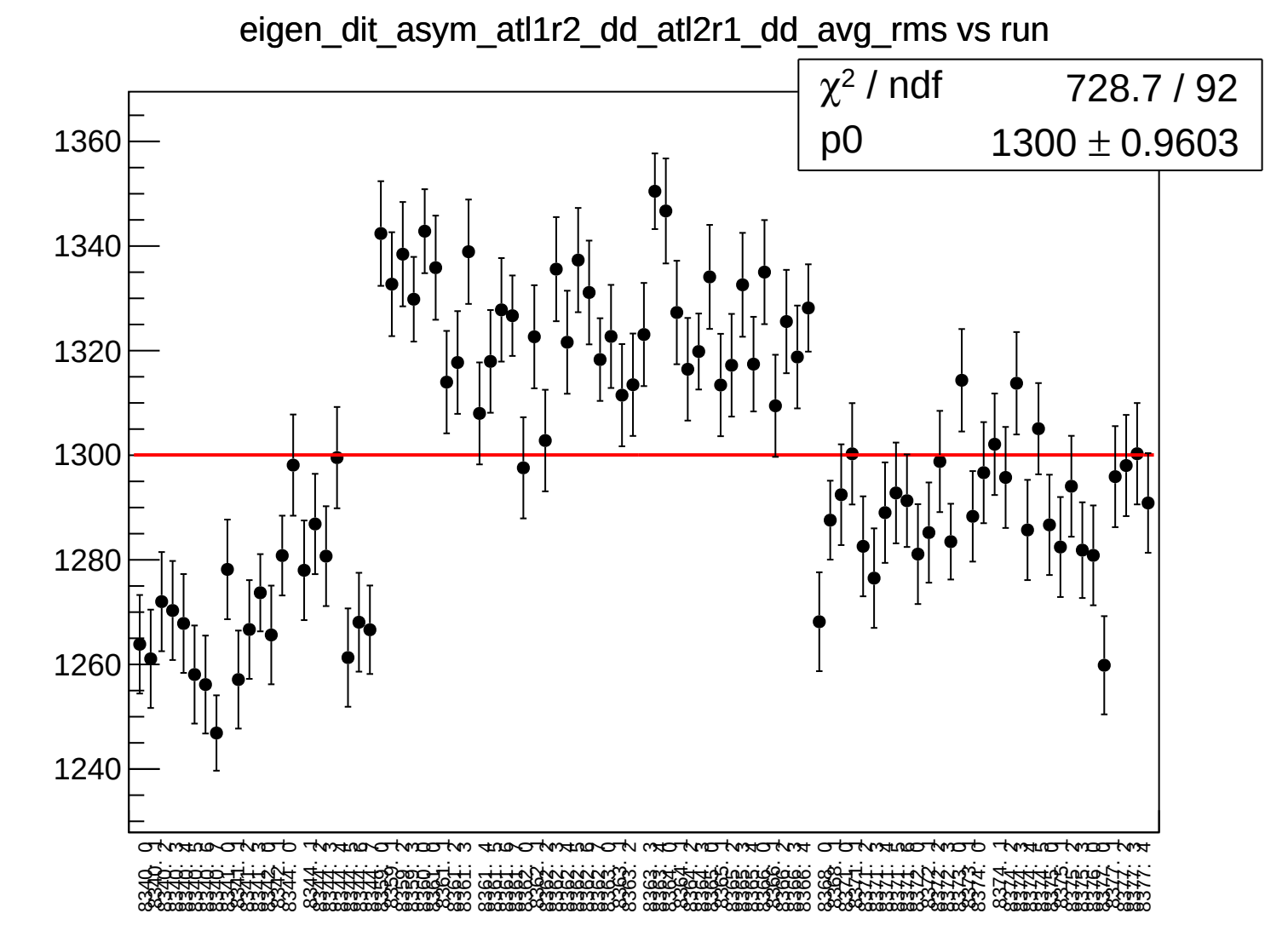

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1136 ± 1470
pull
Entries 93
Mean −433
Std Dev 0

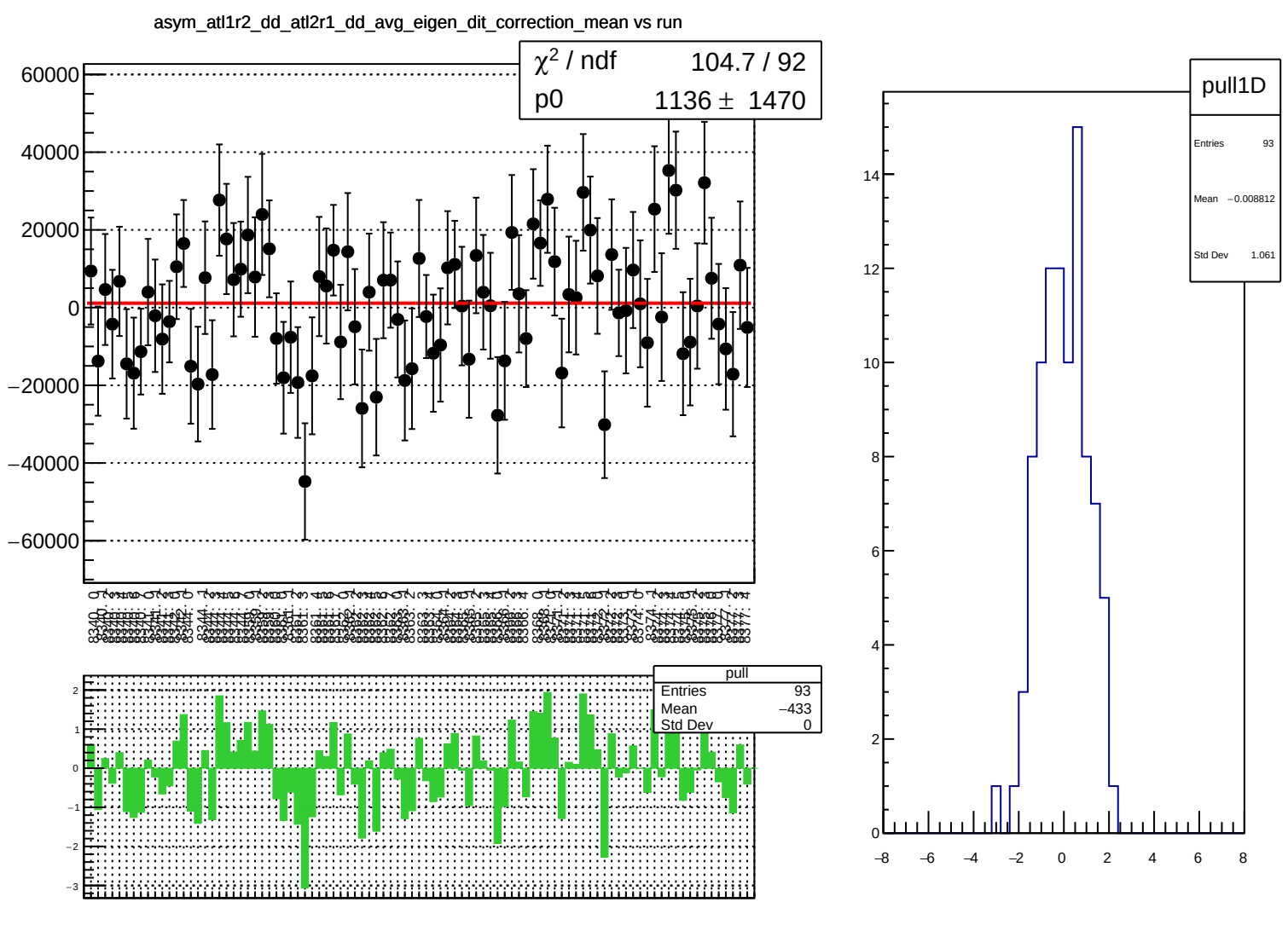

pull1D
Entries 93
Mean −0.008812
Std Dev 1.061

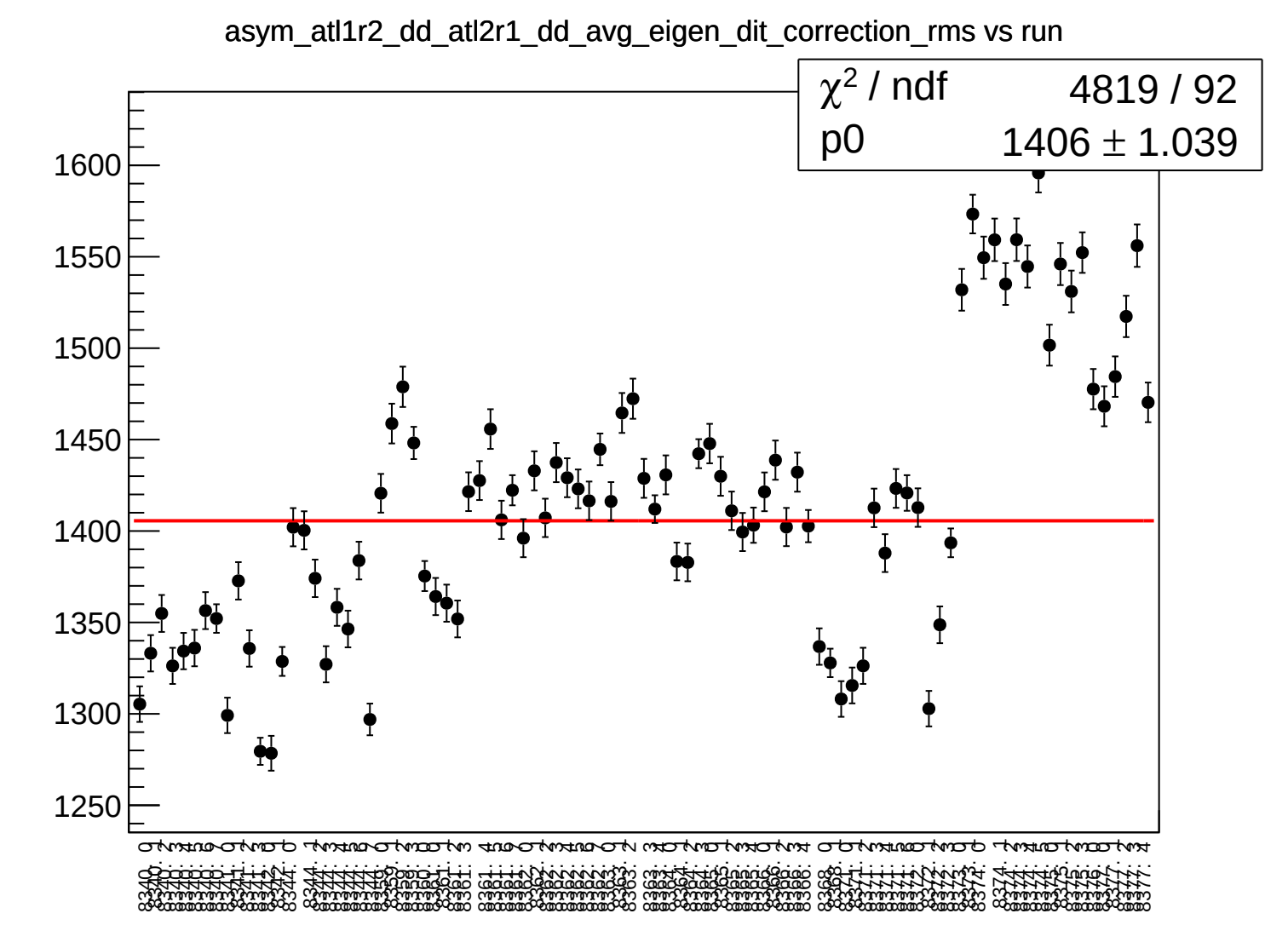

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4820 / 92
p0 1406 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250

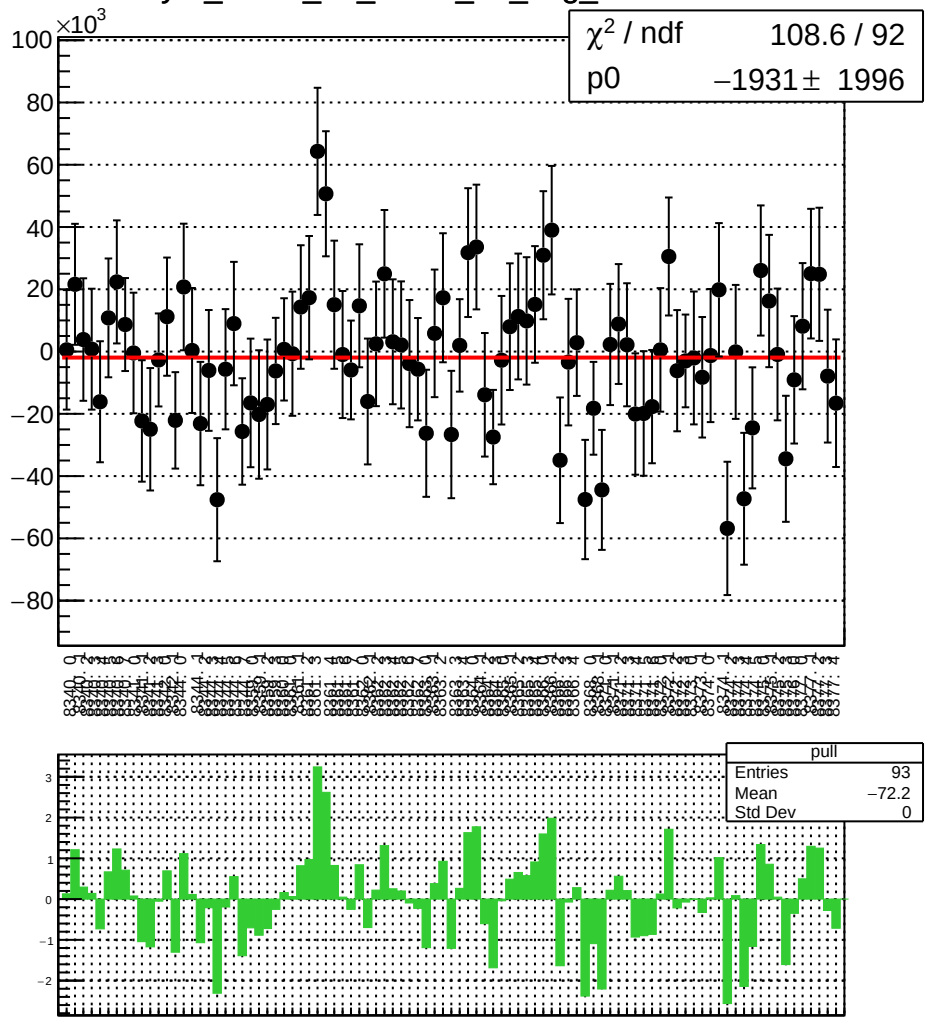

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 92.55 / 92
p0 −633 ± 1358
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 205.9
Std Dev 0
2
1
0
−1
−2

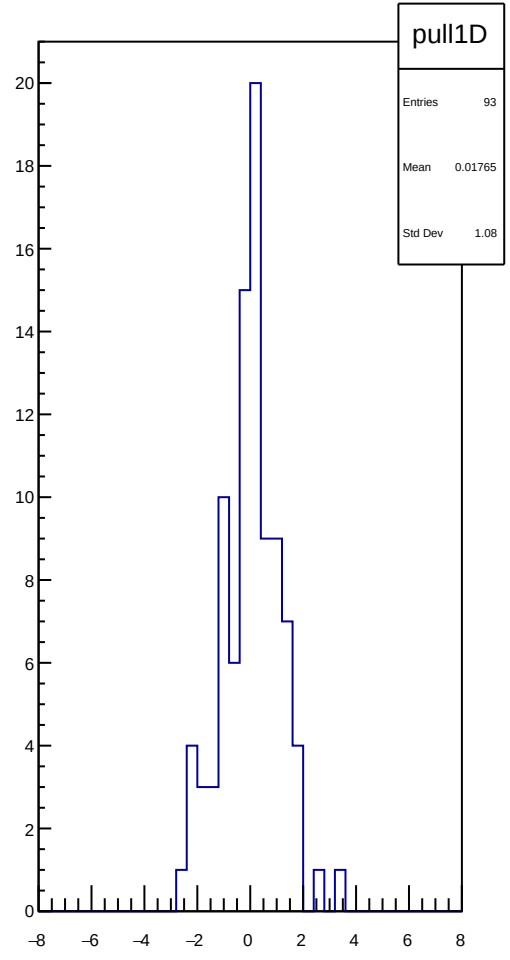

pull1D
Entries 93
Mean 0.01025
Std Dev 0.9975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

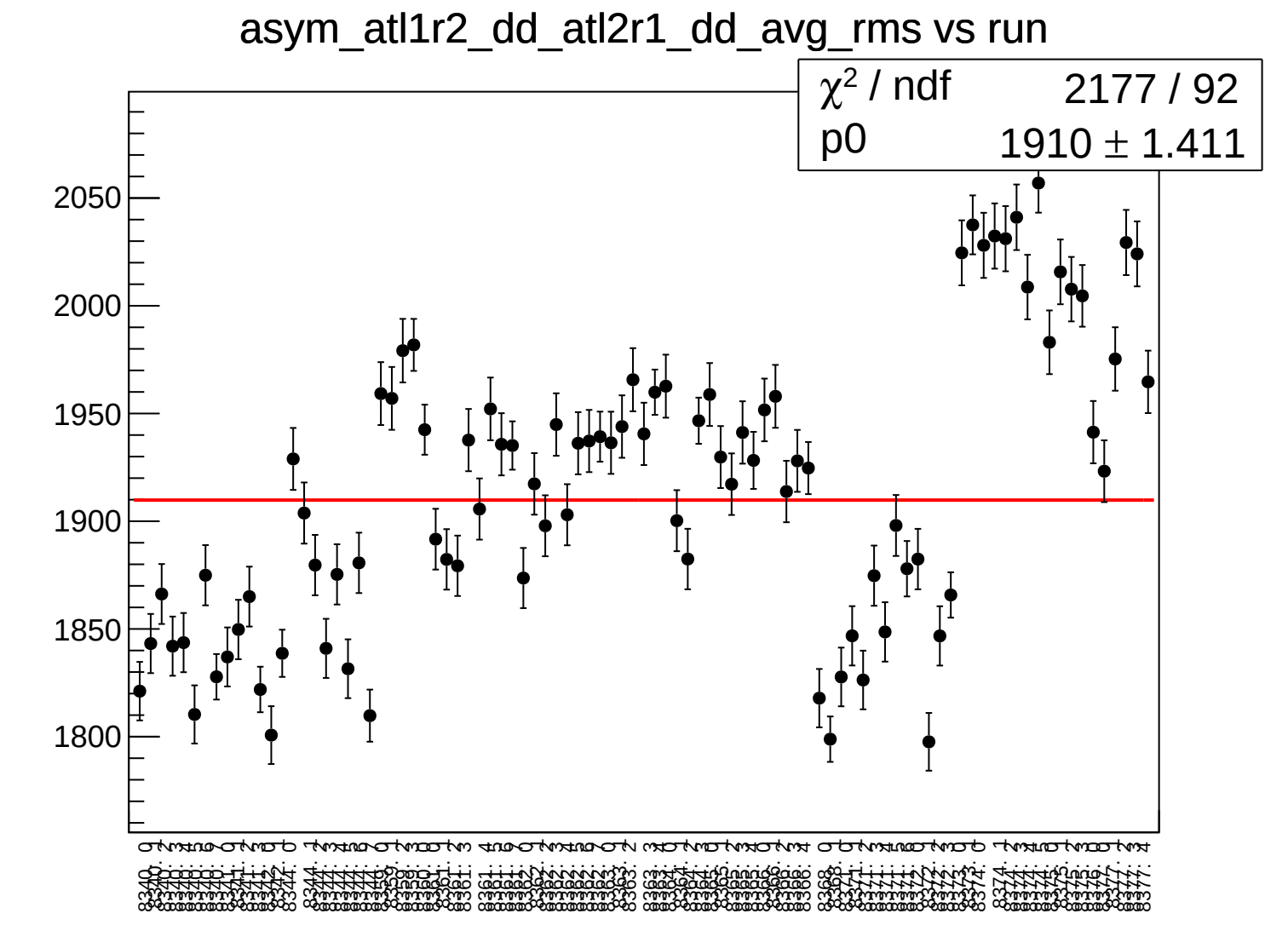

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 728.7 / 92
p0 1300 ± 0.9603
1360
1340
1320
1300
1280
1260
1240

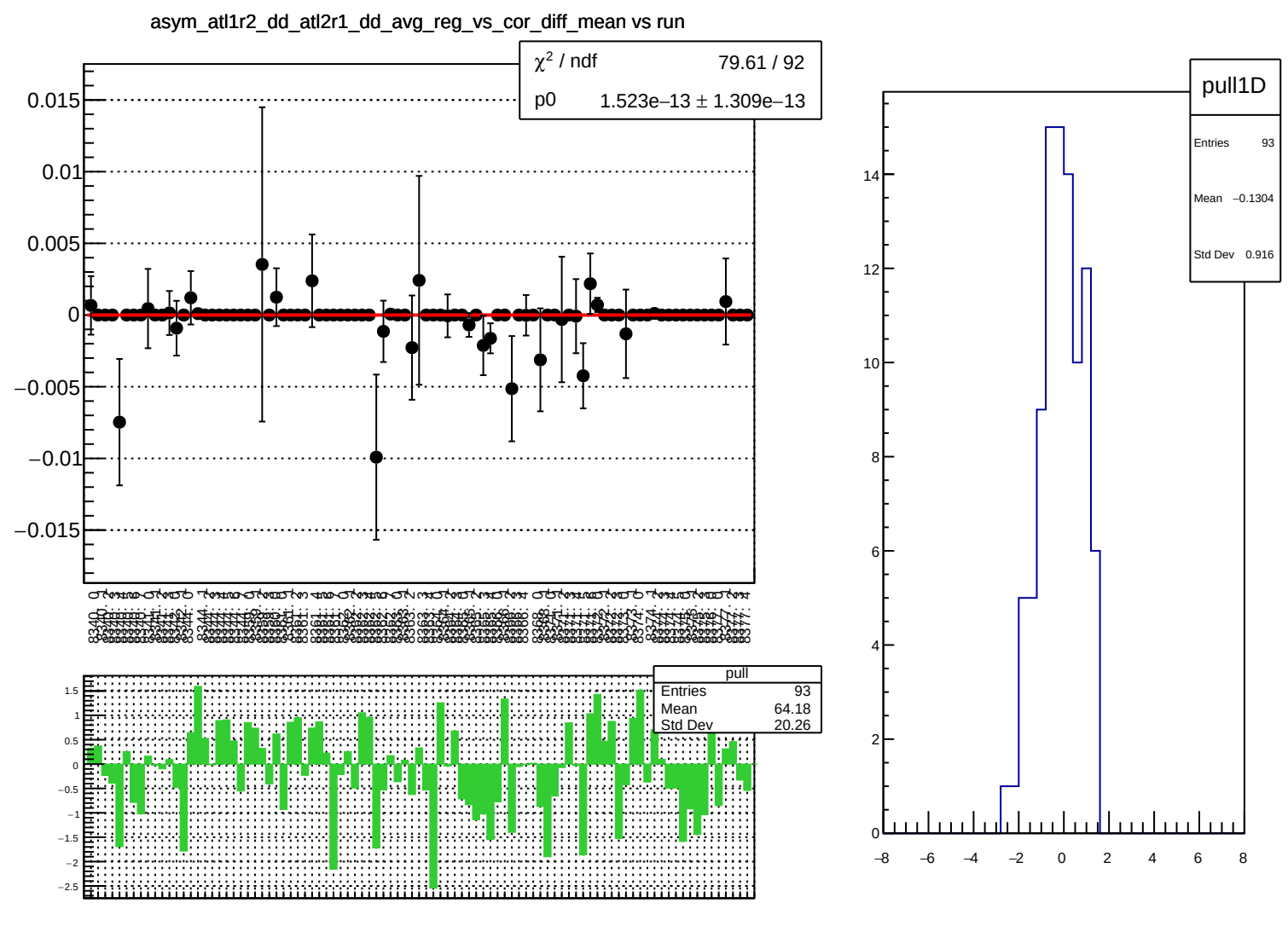

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 104.7 / 92
p0 1136 ± 1470
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −433
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.008812
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

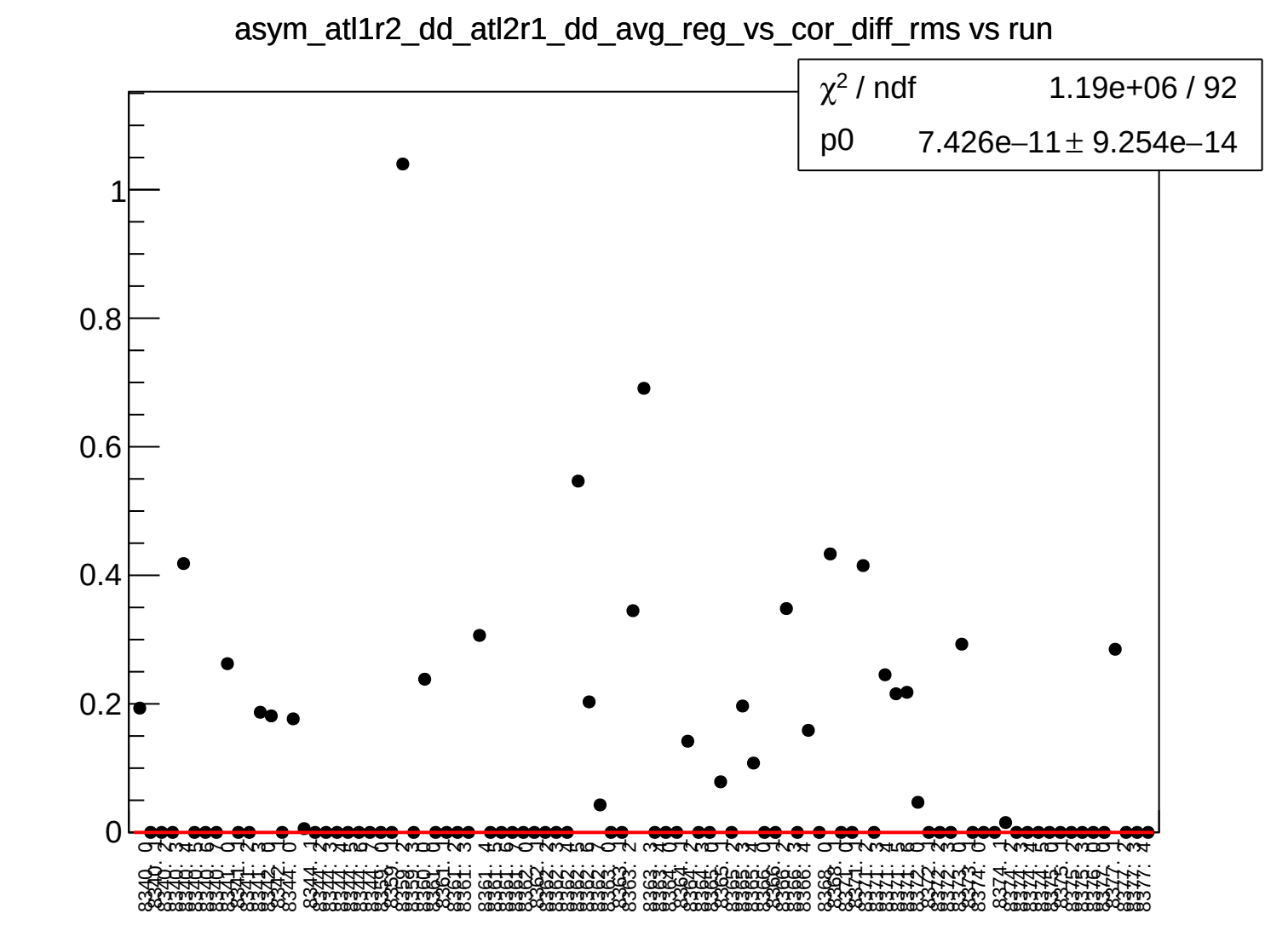

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4819 / 92
p0 1406 ± 1.039
1600
1550
1500
1450
1400
1350
1300
1250

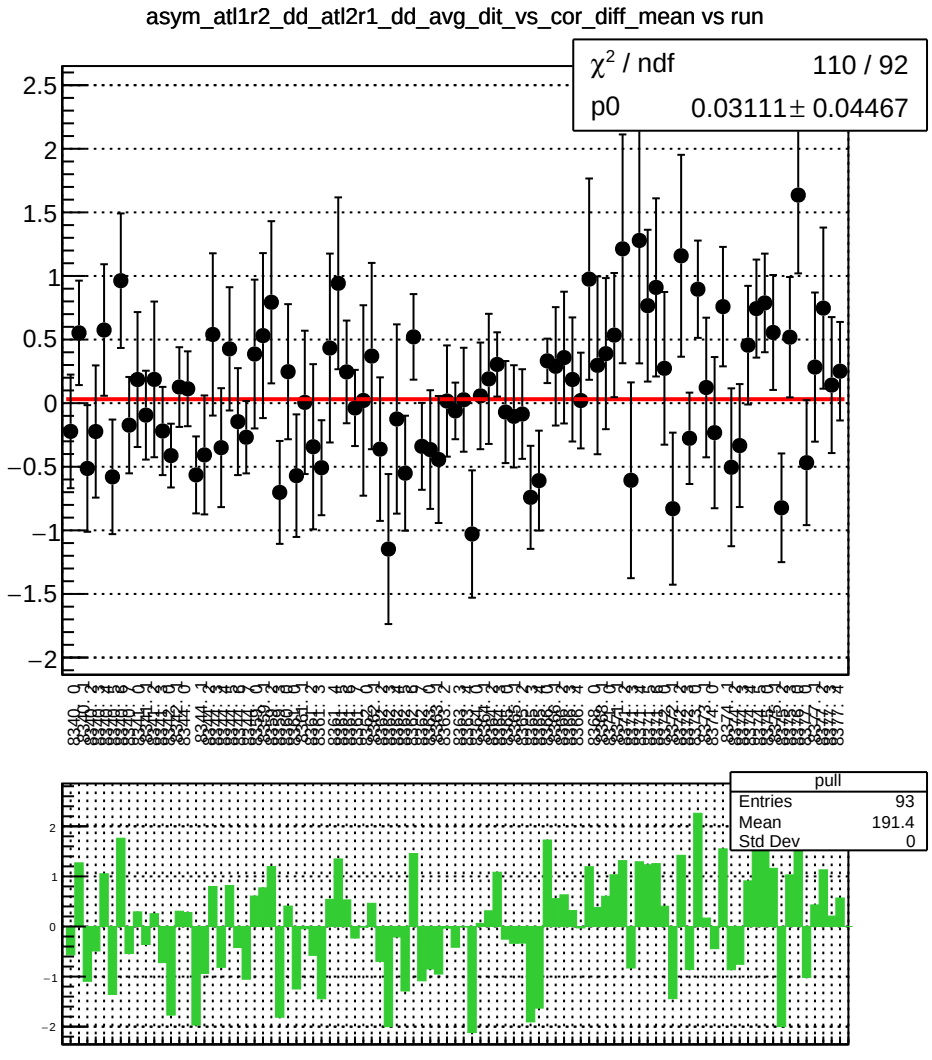

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ^2 / ndf 108.6 / 92
p0 −1931 ± 1996
×10^3
pull
Entries 93
Mean −72.2
Std Dev 0

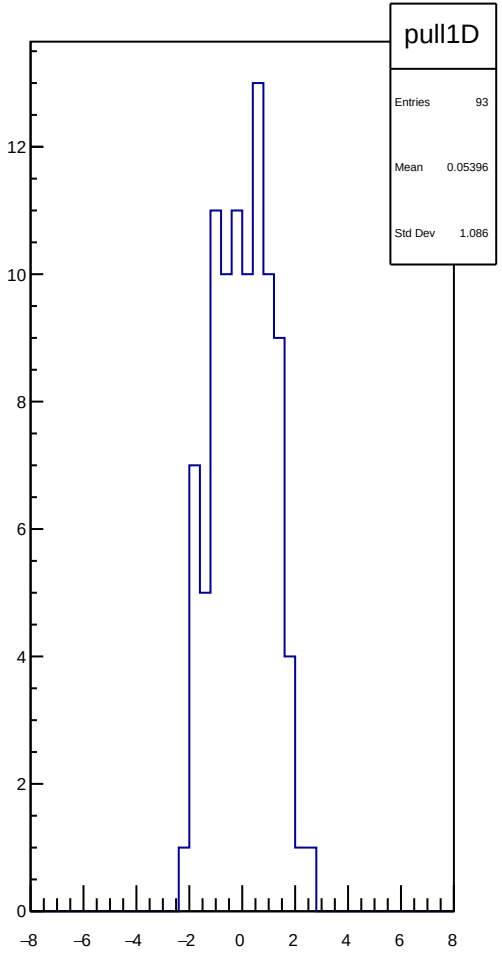

pull1D
Entries 93
Mean 0.01765
Std Dev 1.08

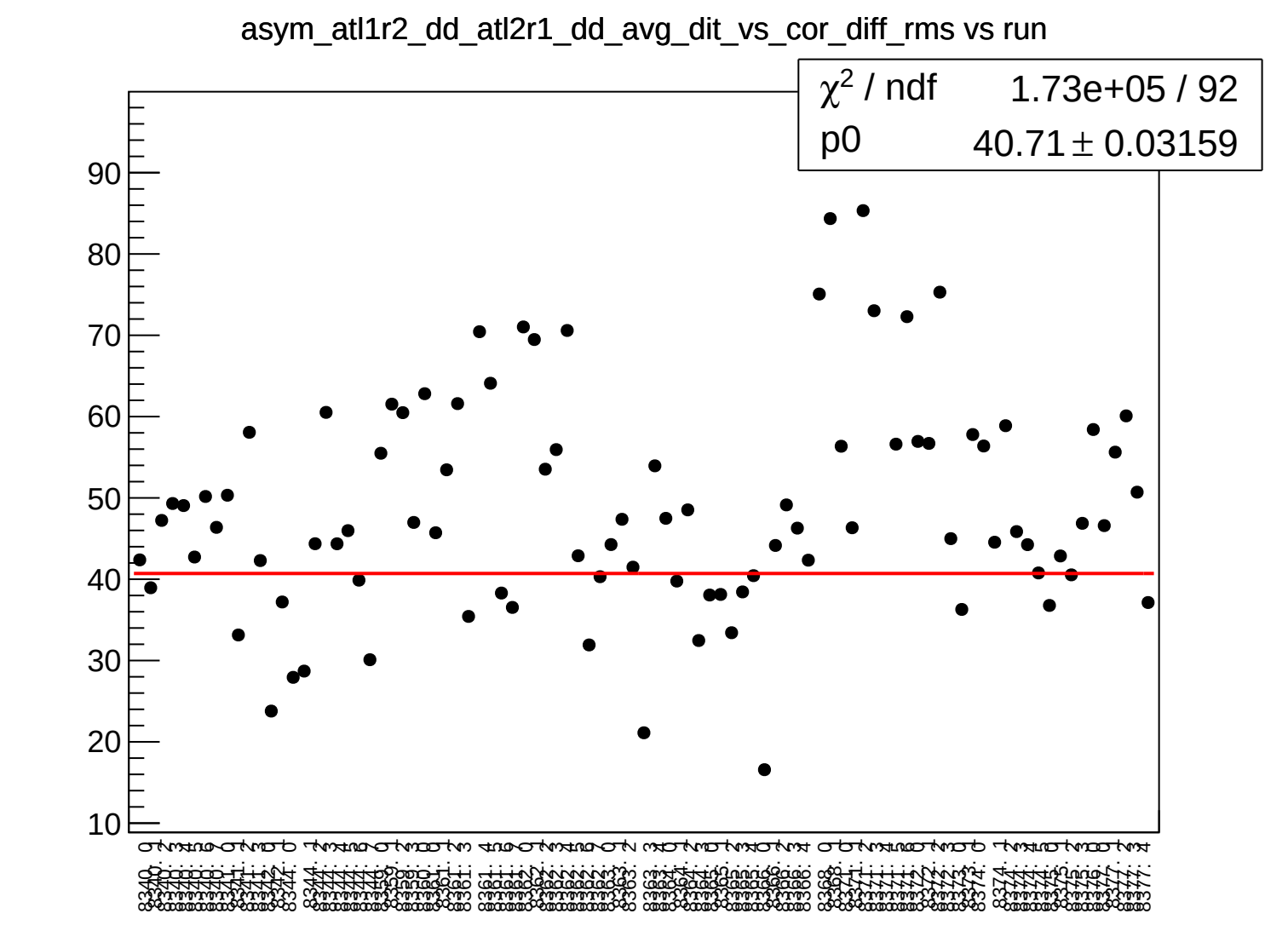

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2177 / 92
p0 1910 ± 1.411
2050
2000
1950
1900
1850
1800

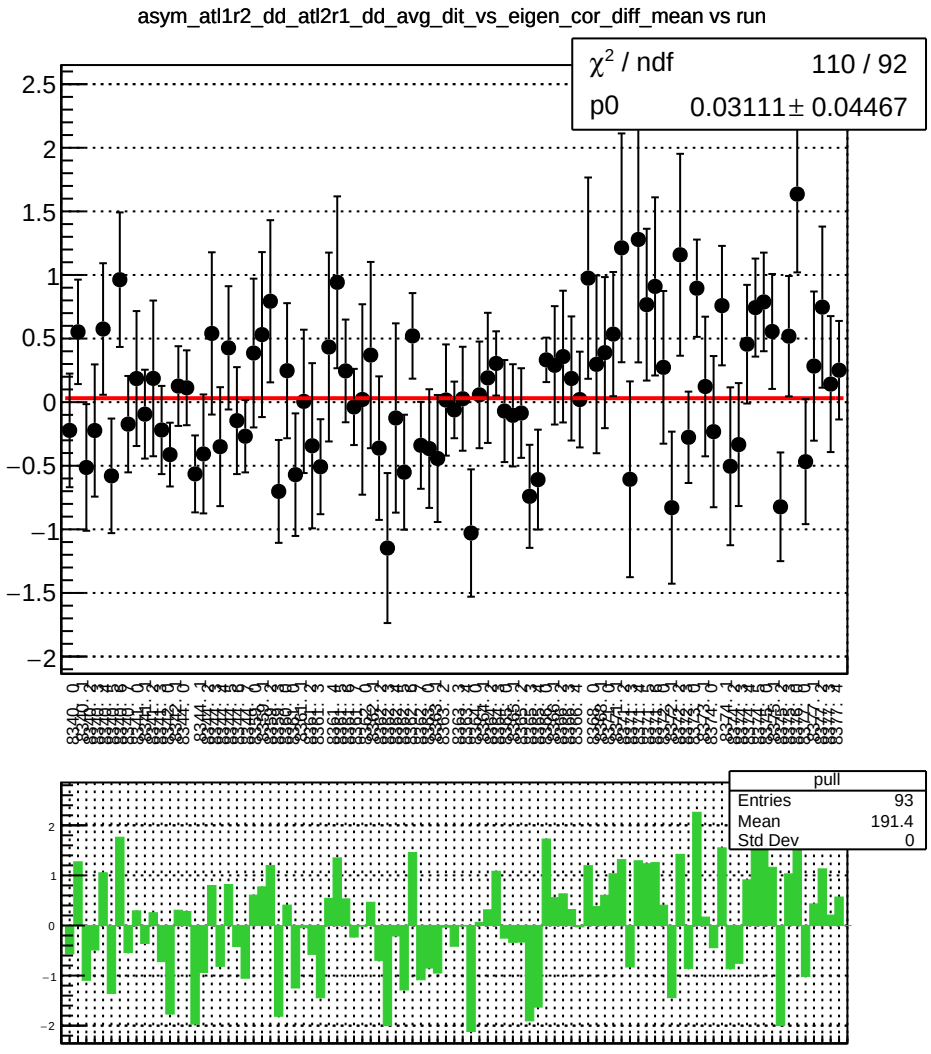

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.61 / 92
p0 1.523e−13 ± 1.309e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 64.18
Std Dev 20.26
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.1304
Std Dev 0.916
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

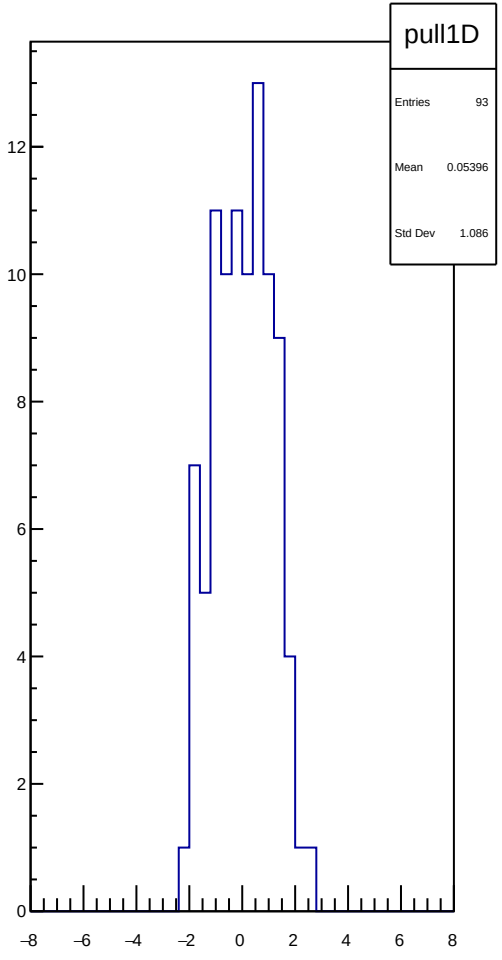

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.19e+06 / 92
p0 7.426e−11 ± 9.254e−14
1
0.8
0.6
0.4
0.2
0

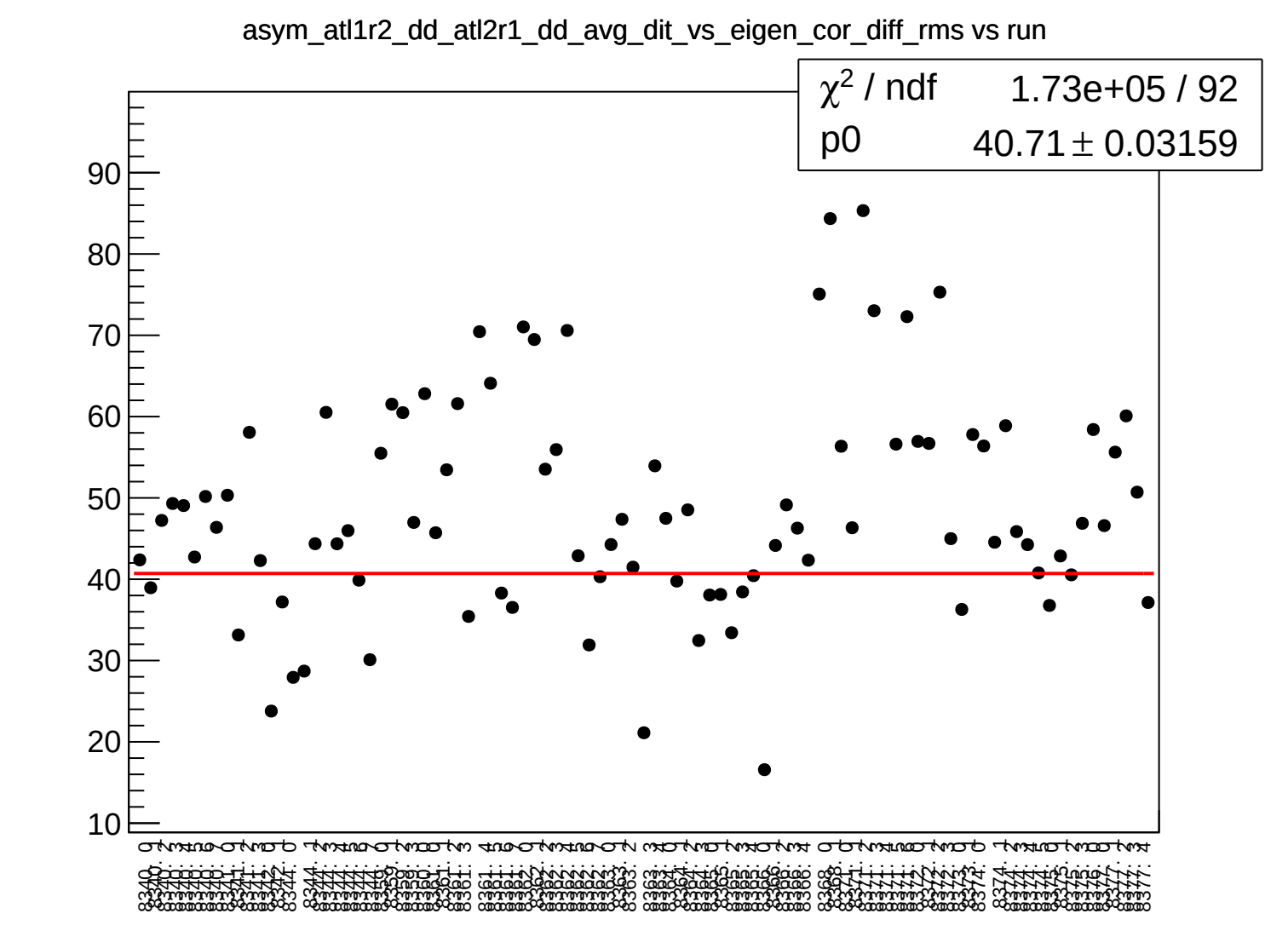

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03111 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0

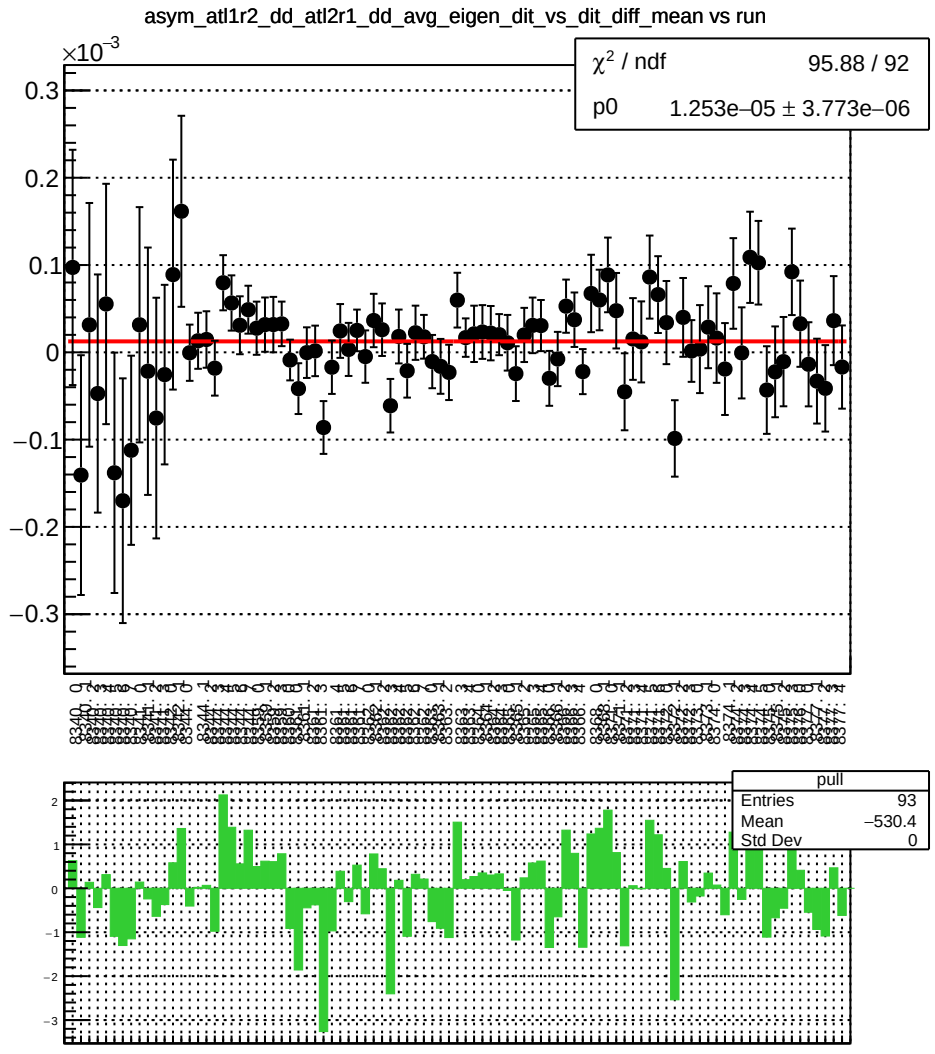

pull1D
Entries 93
Mean 0.05396
Std Dev 1.086

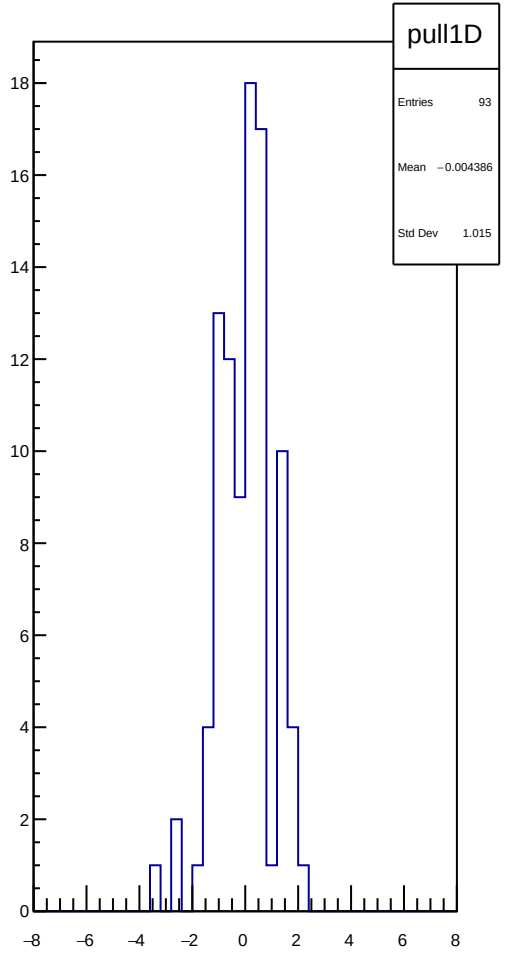

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

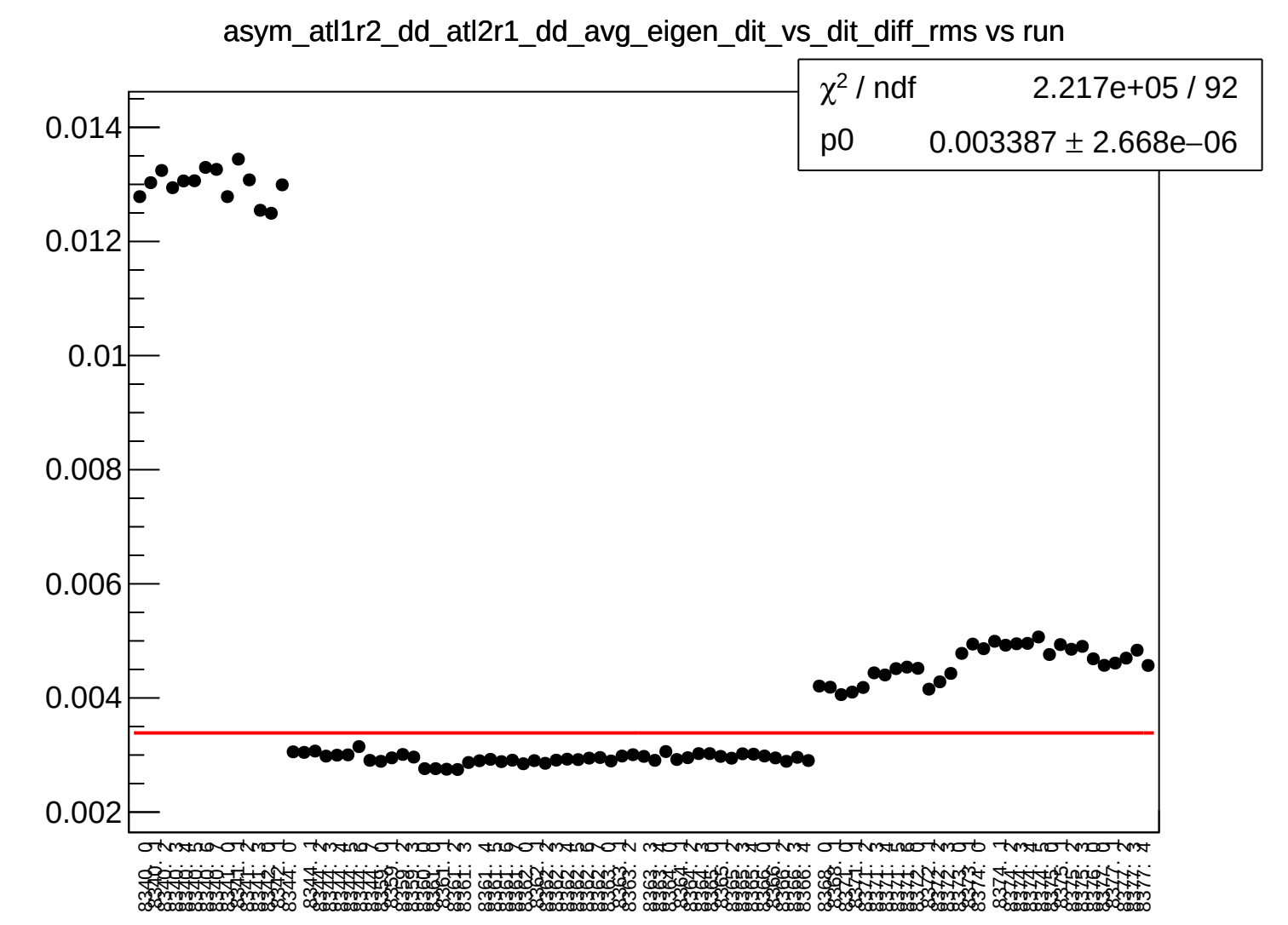

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03111 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0

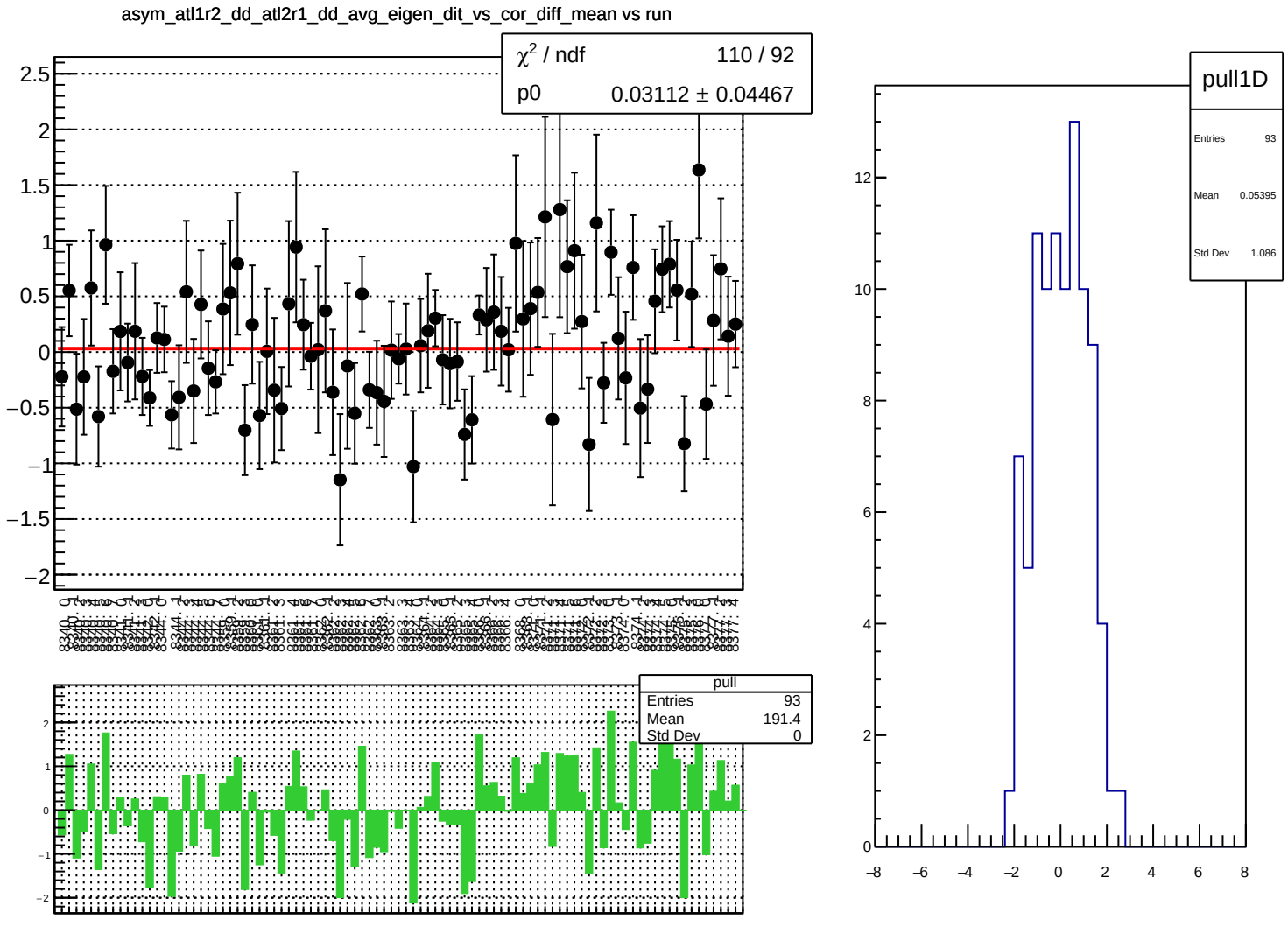

pull1D
Entries 93
Mean 0.05396
Std Dev 1.086

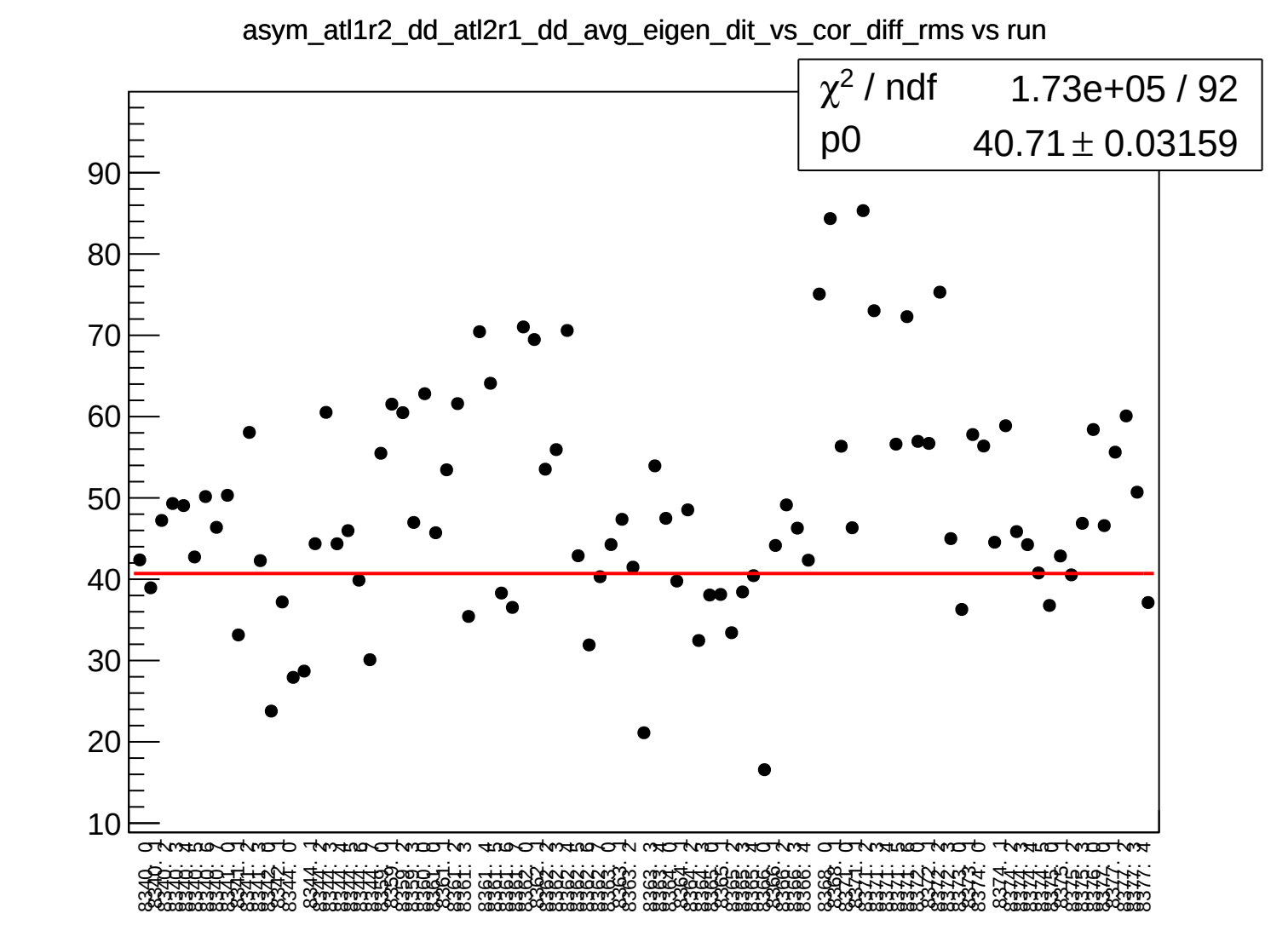

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

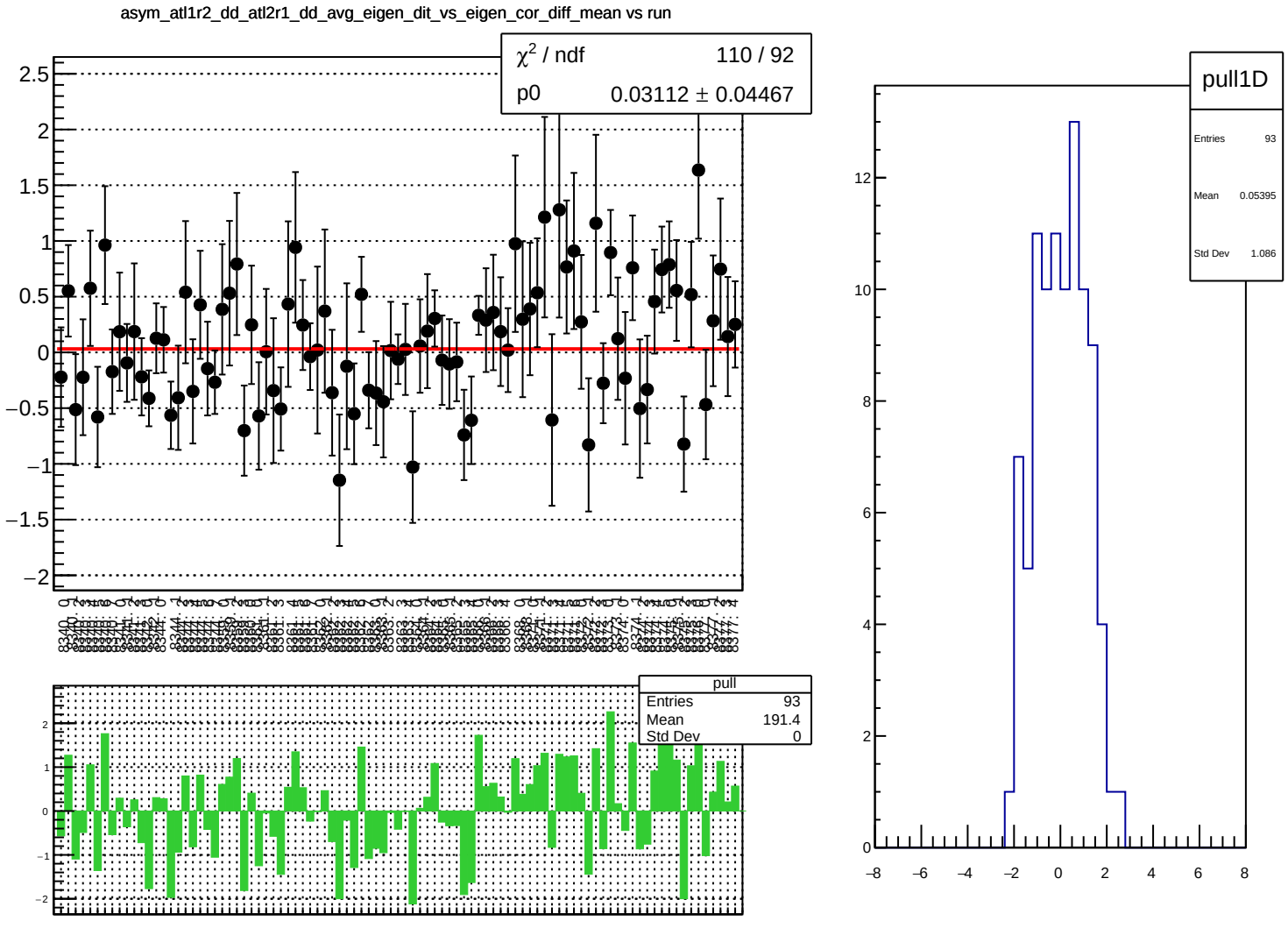

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.88 / 92
p0 1.253e−05 ± 3.773e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean −530.4
Std Dev 0
2
1
0
−1
−2
−3

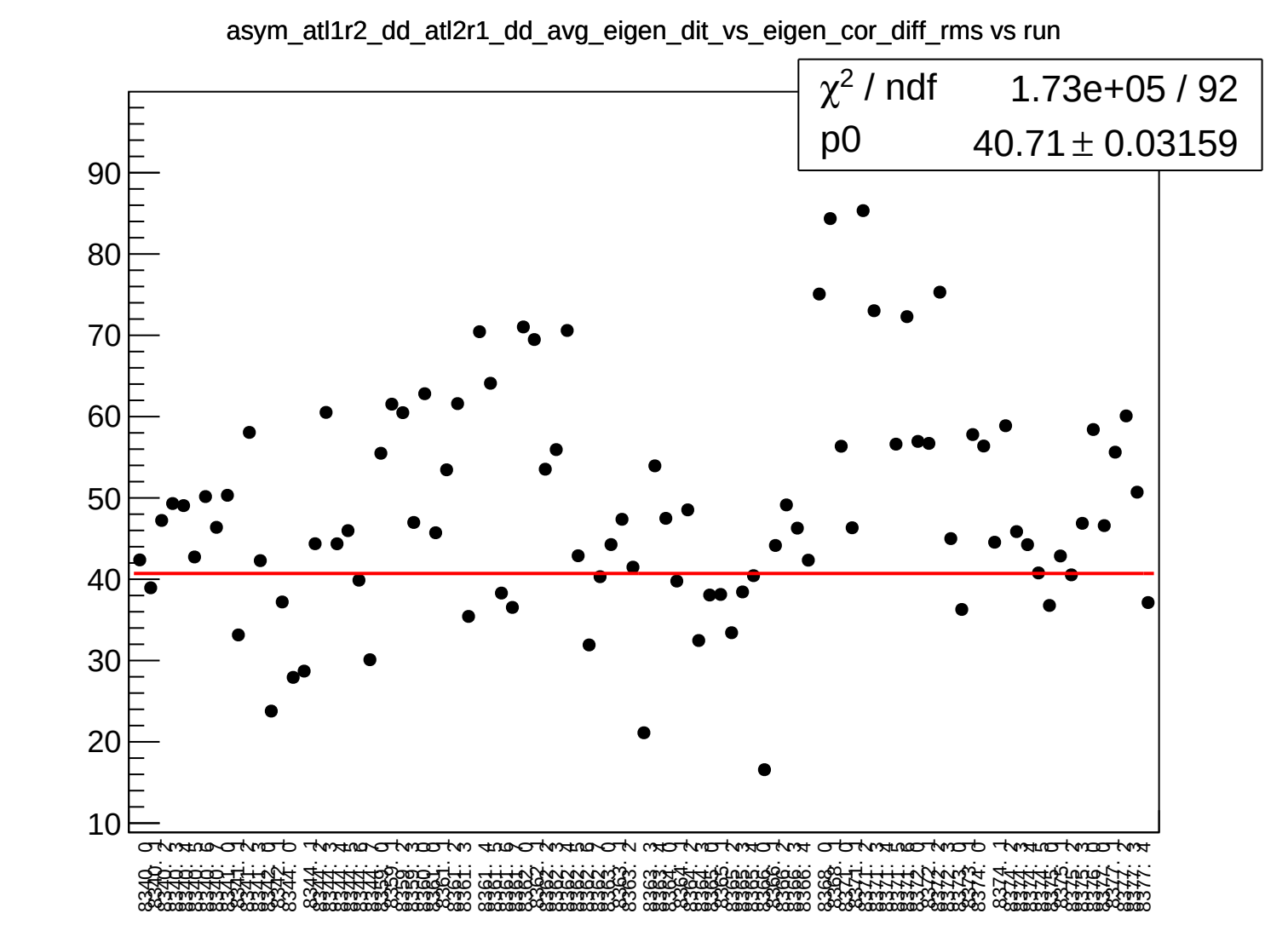

pull1D
Entries 93
Mean −0.004386
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

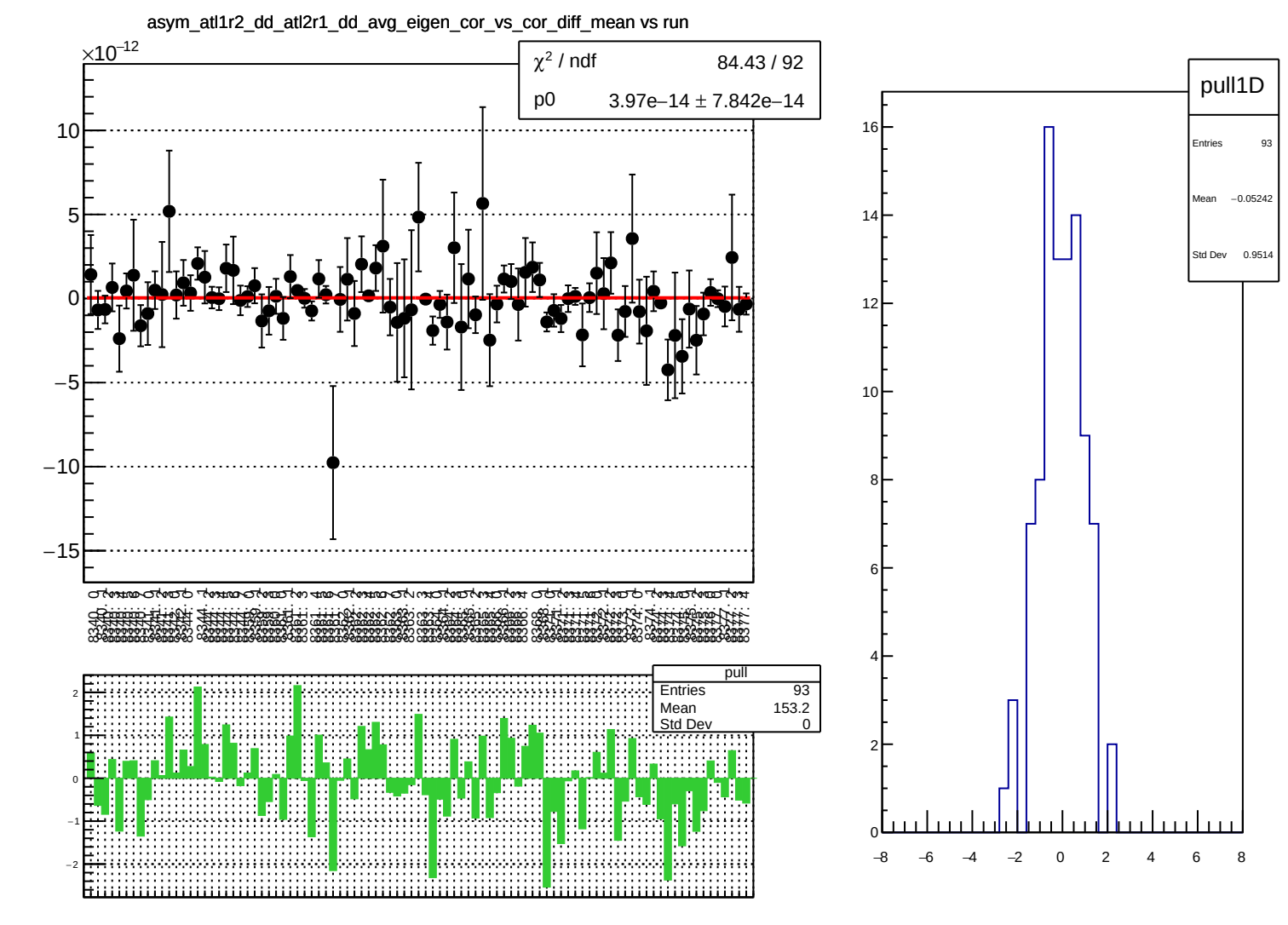

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.217e+05 / 92
p0 0.003387 ± 2.668e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

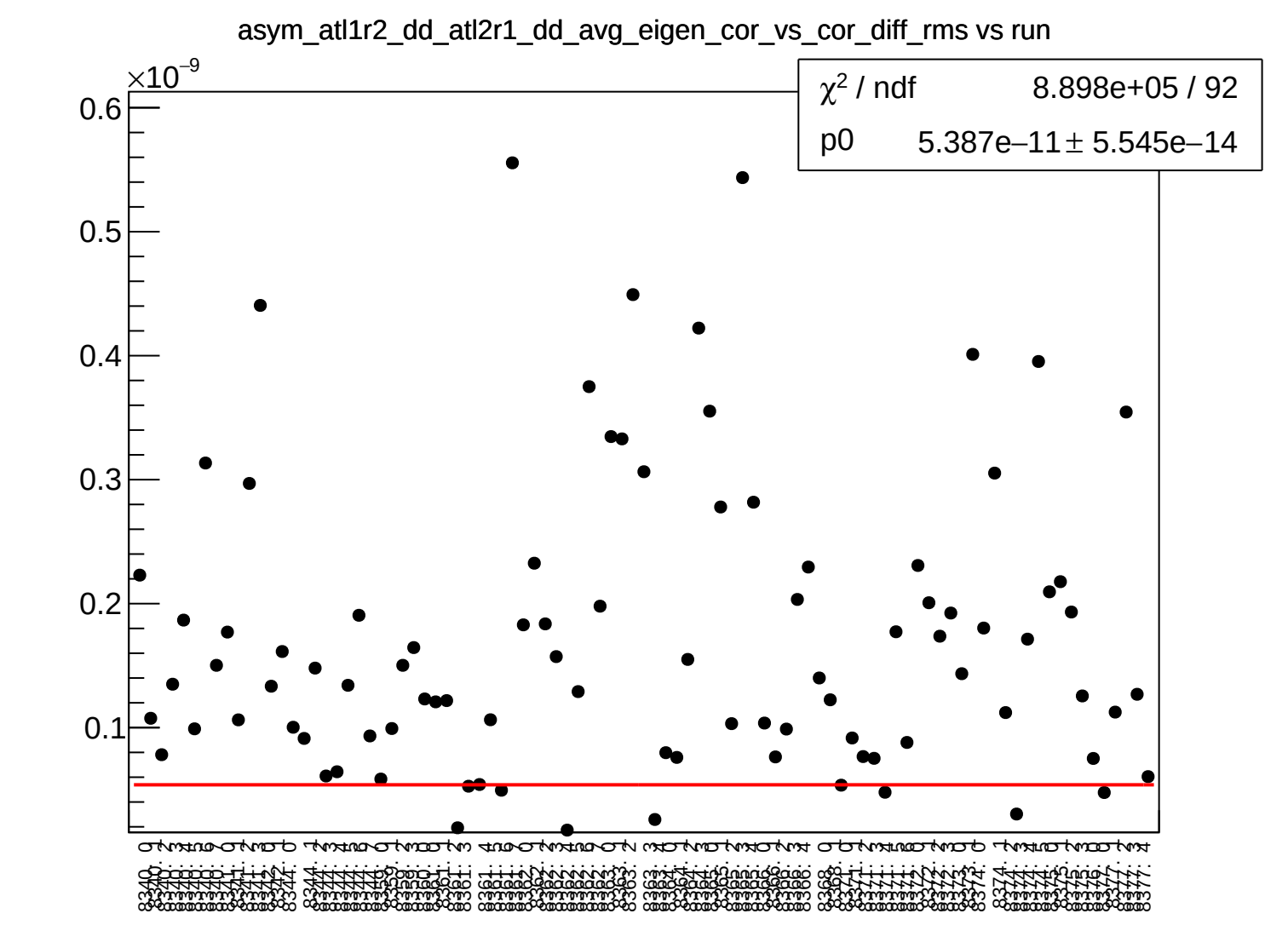

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03112 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0
pull1D
Entries 93
Mean 0.05395
Std Dev 1.086

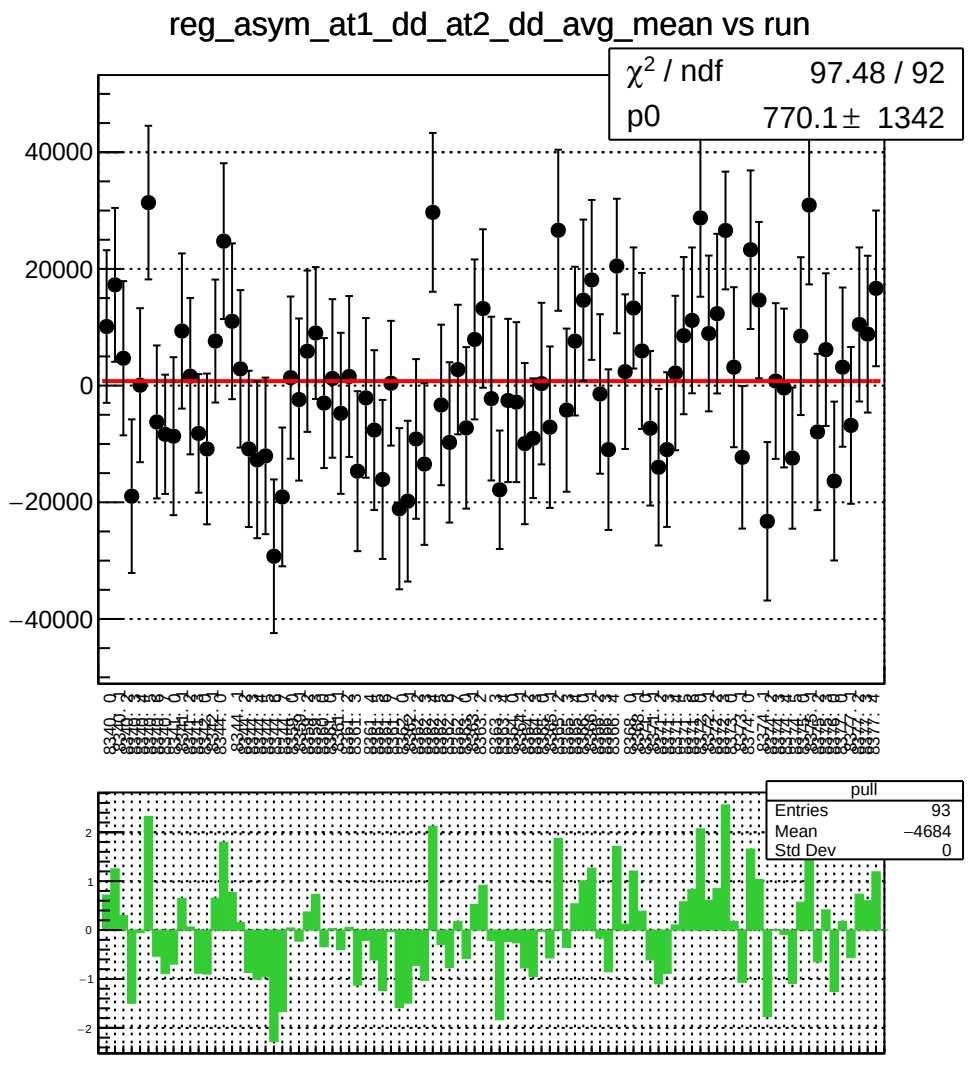

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

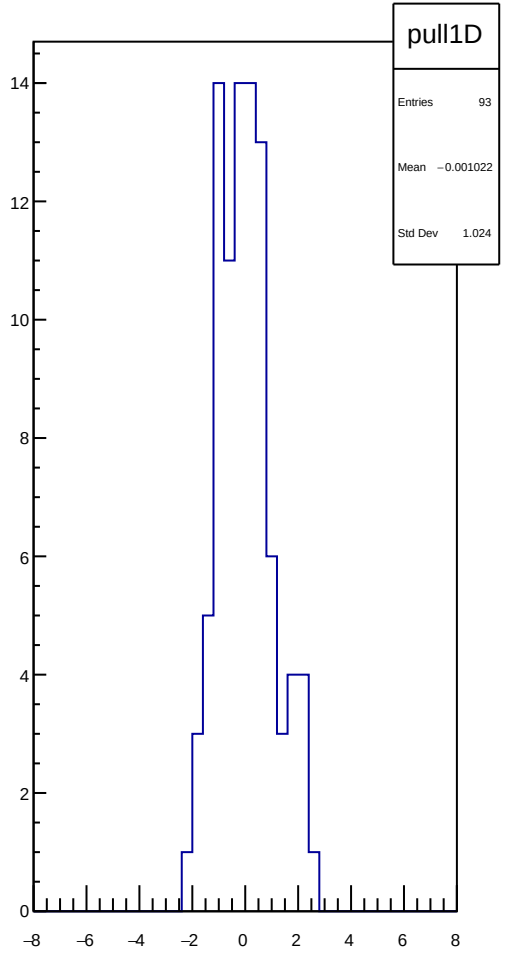

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110 / 92
p0 0.03112 ± 0.04467
pull
Entries 93
Mean 191.4
Std Dev 0
pull1D
Entries 93
Mean 0.05395
Std Dev 1.086

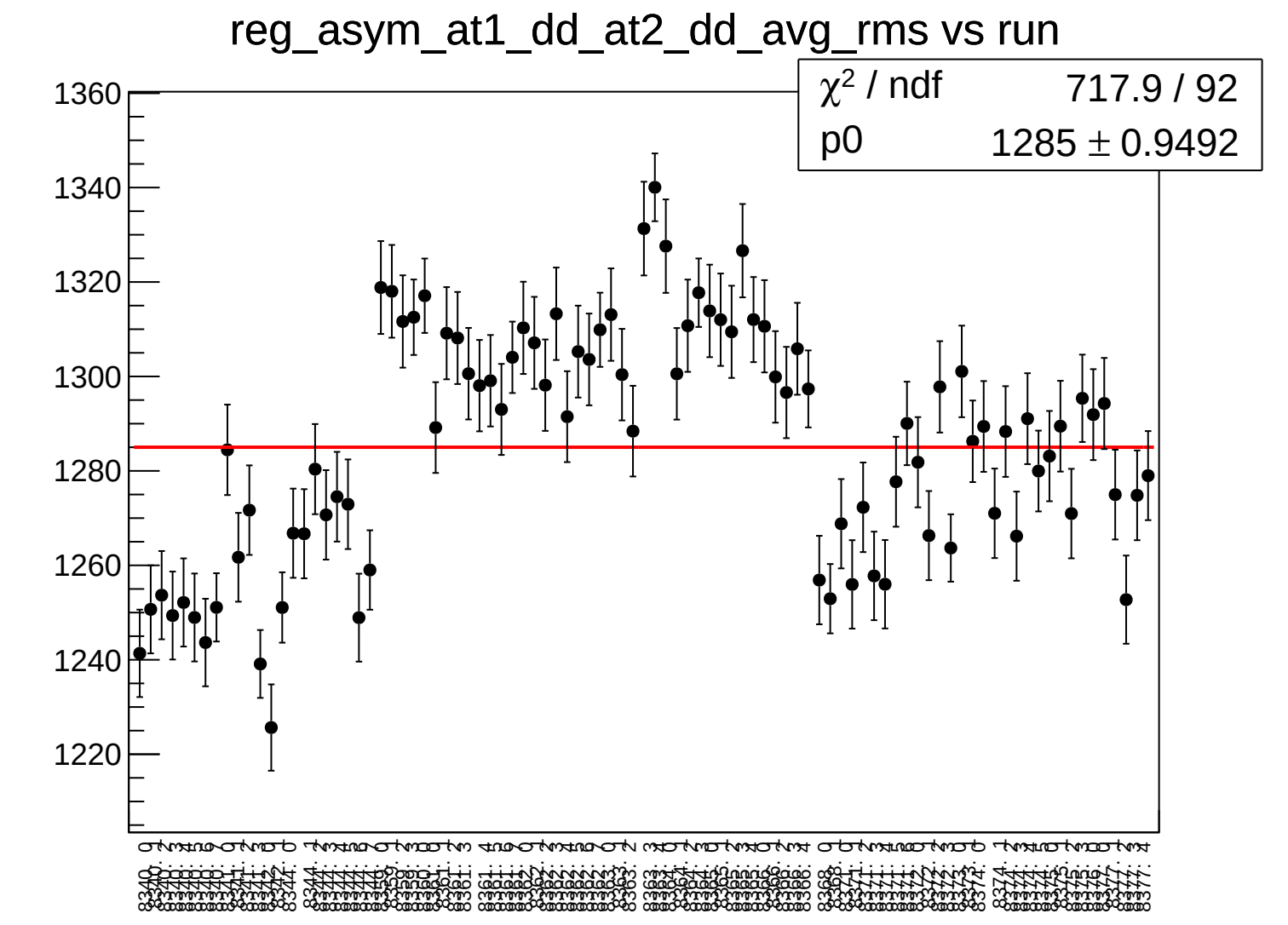

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.73e+05 / 92
p0 40.71 ± 0.03159
90
80
70
60
50
40
30
20
10

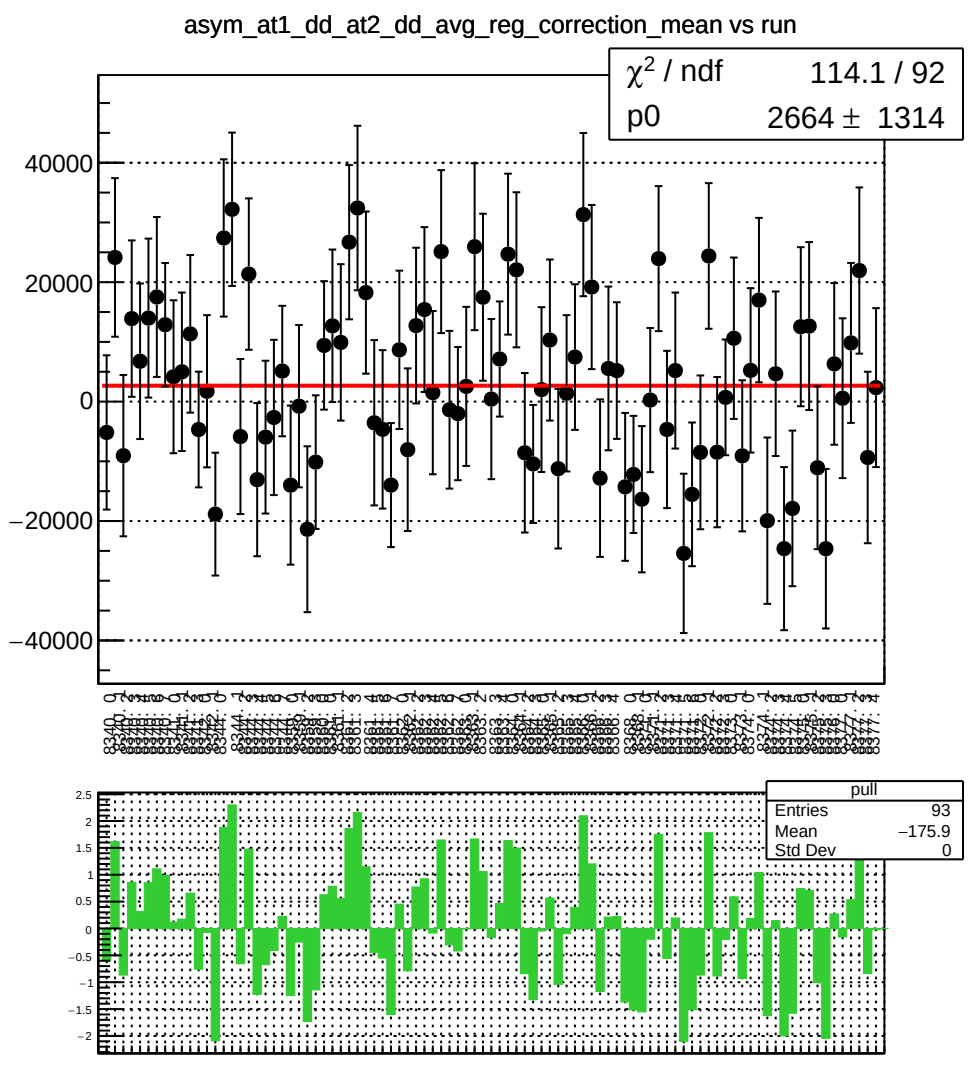

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.43 / 92
p0 3.97e−14 ± 7.842e−14
10
5
0
−5
−10
−15
pull
Entries 93
Mean 153.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05242
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

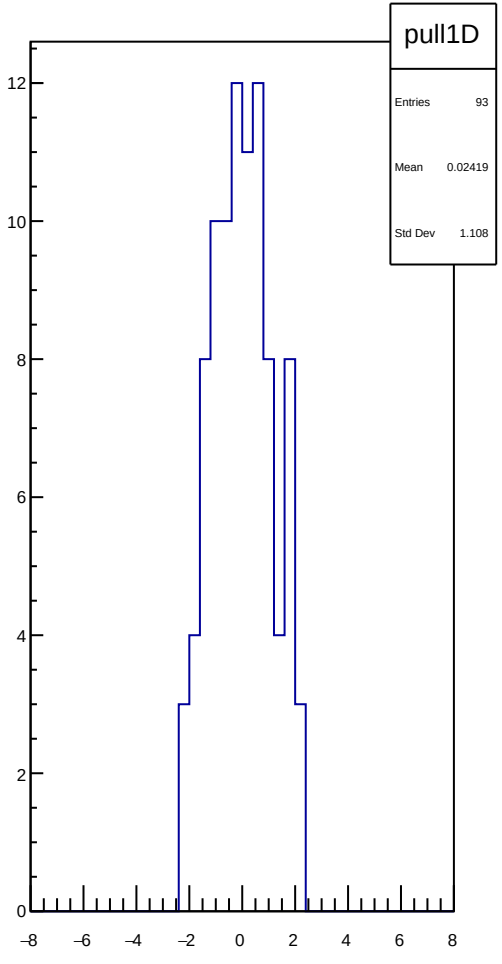

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.898e+05 / 92
p0 5.387e−11 ± 5.545e−14
0.6
0.5
0.4
0.3
0.2
0.1


reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.48 / 92
p0 770.1 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4684
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.02419
Std Dev 1.108
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10
8
6
4
2
0
−8
−6
−4
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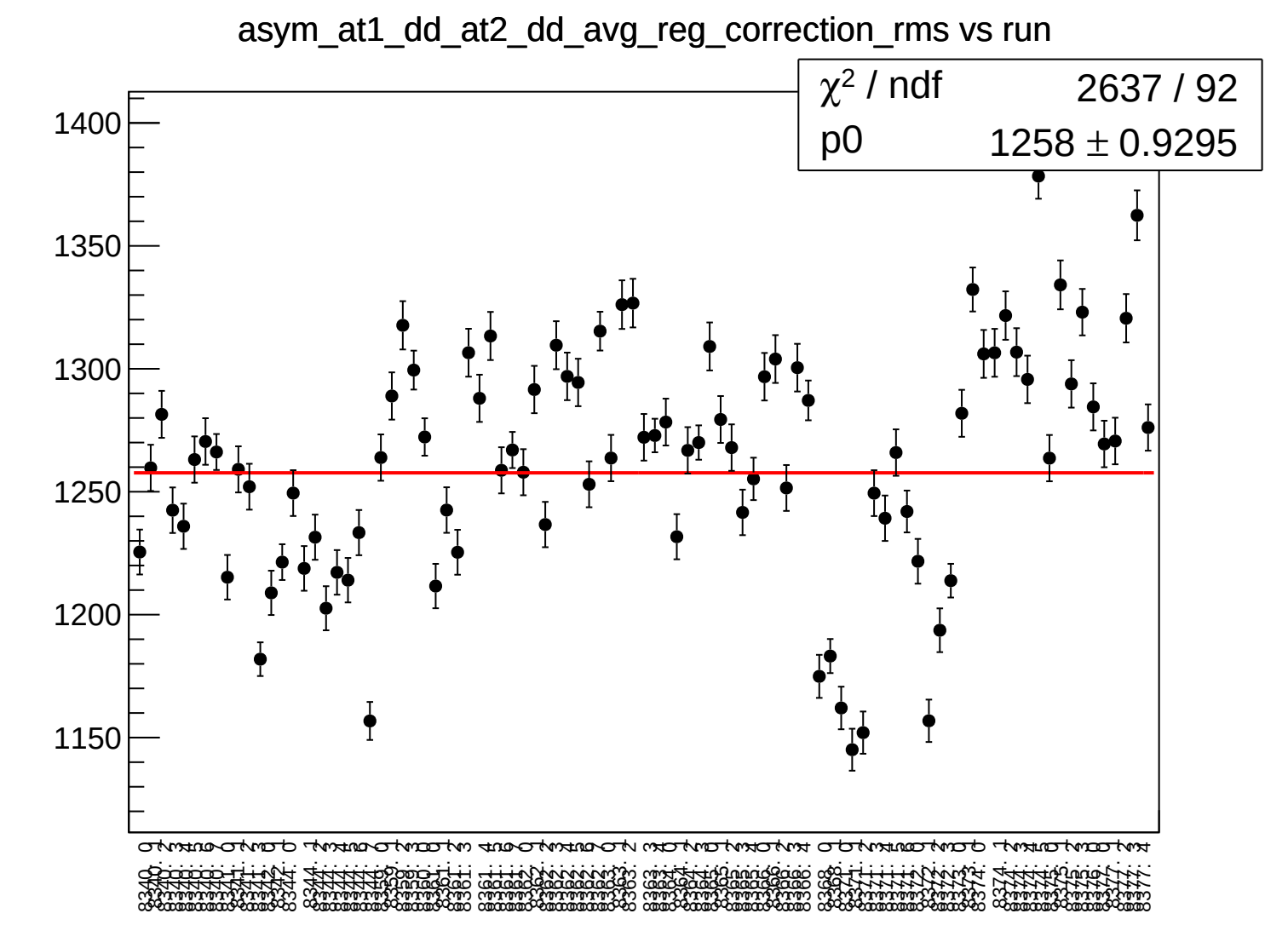
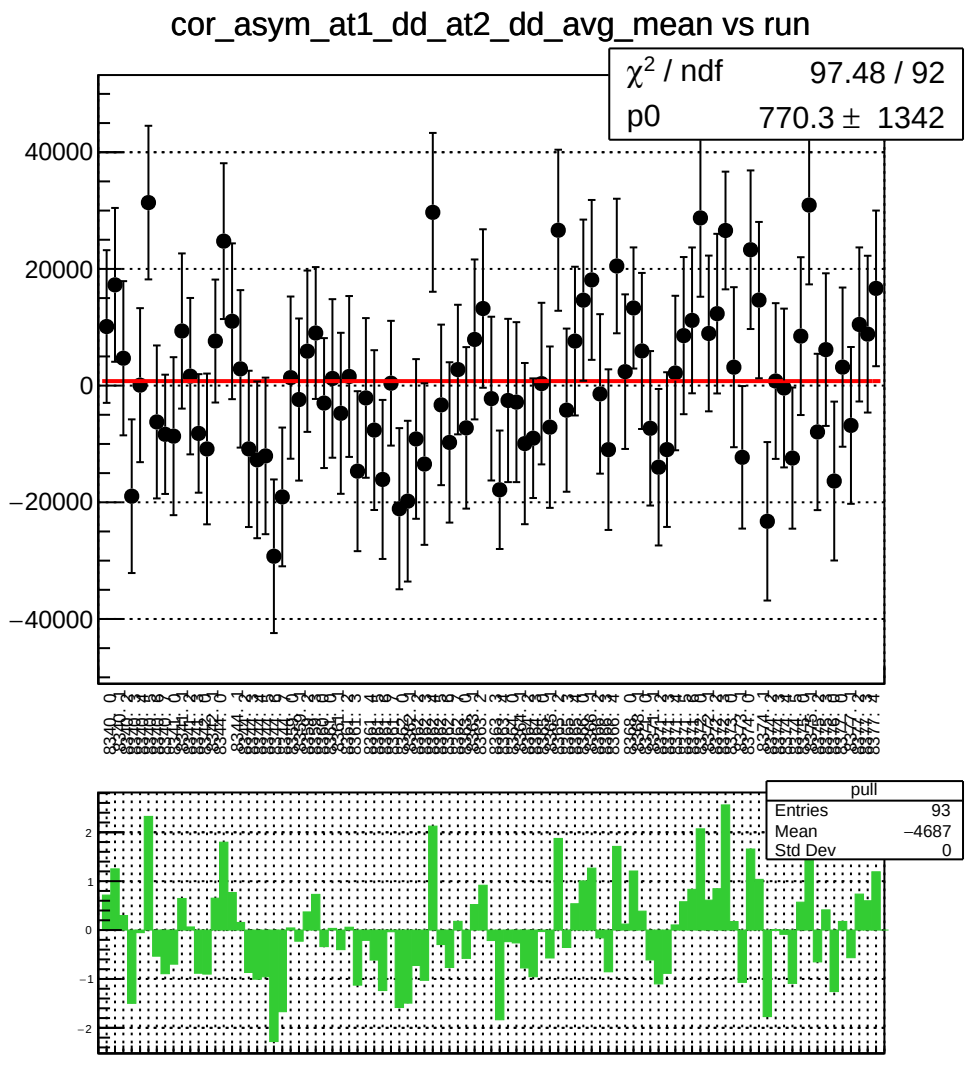
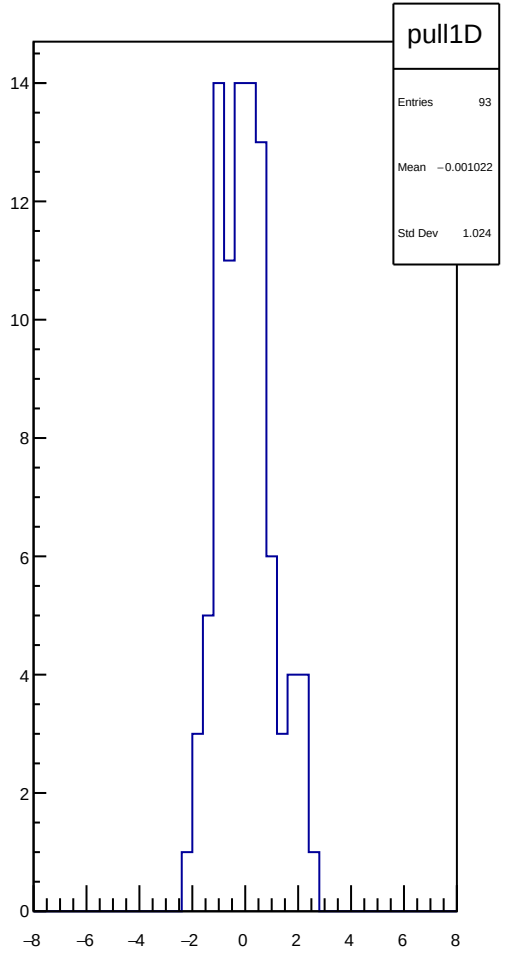
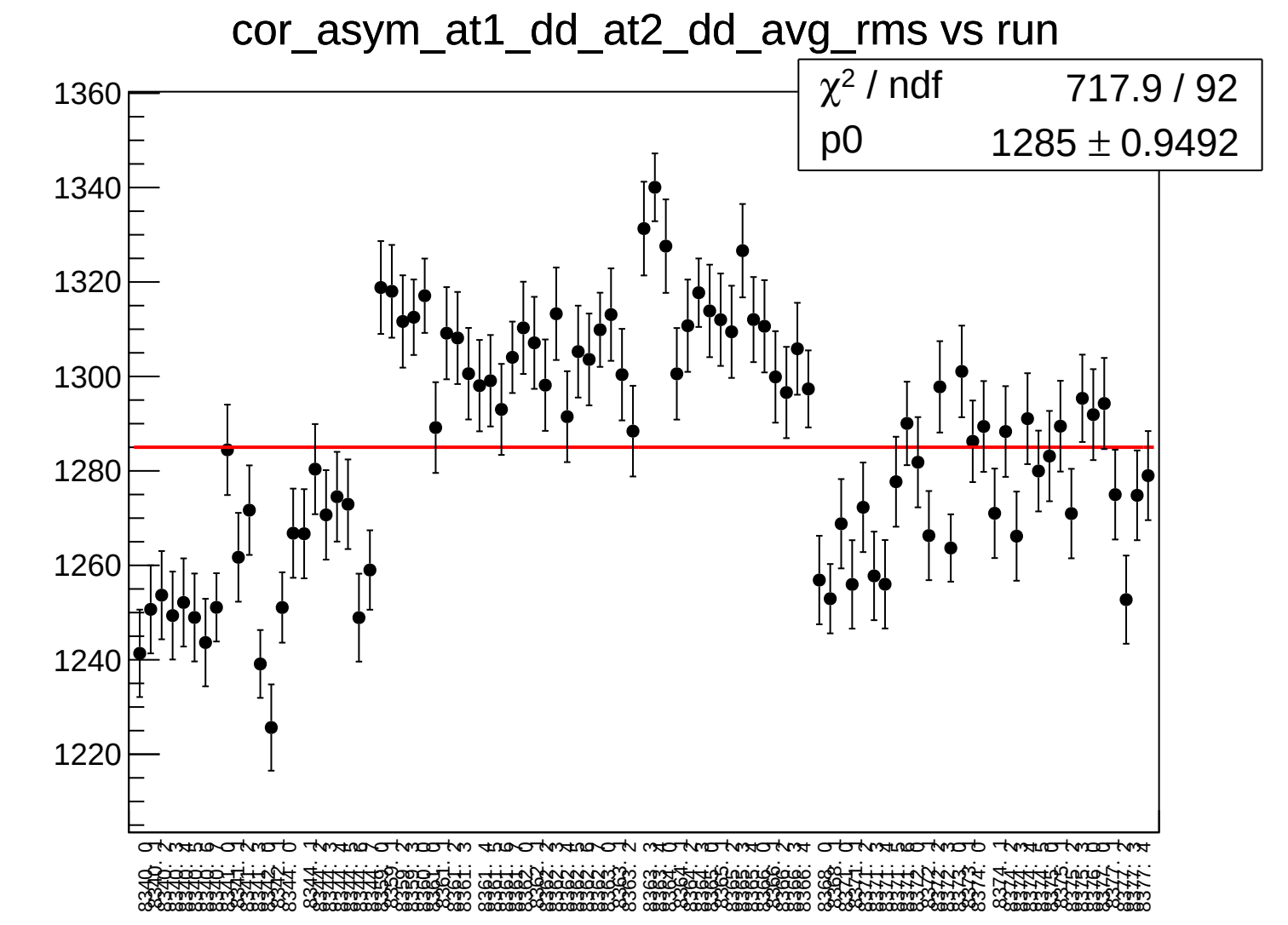
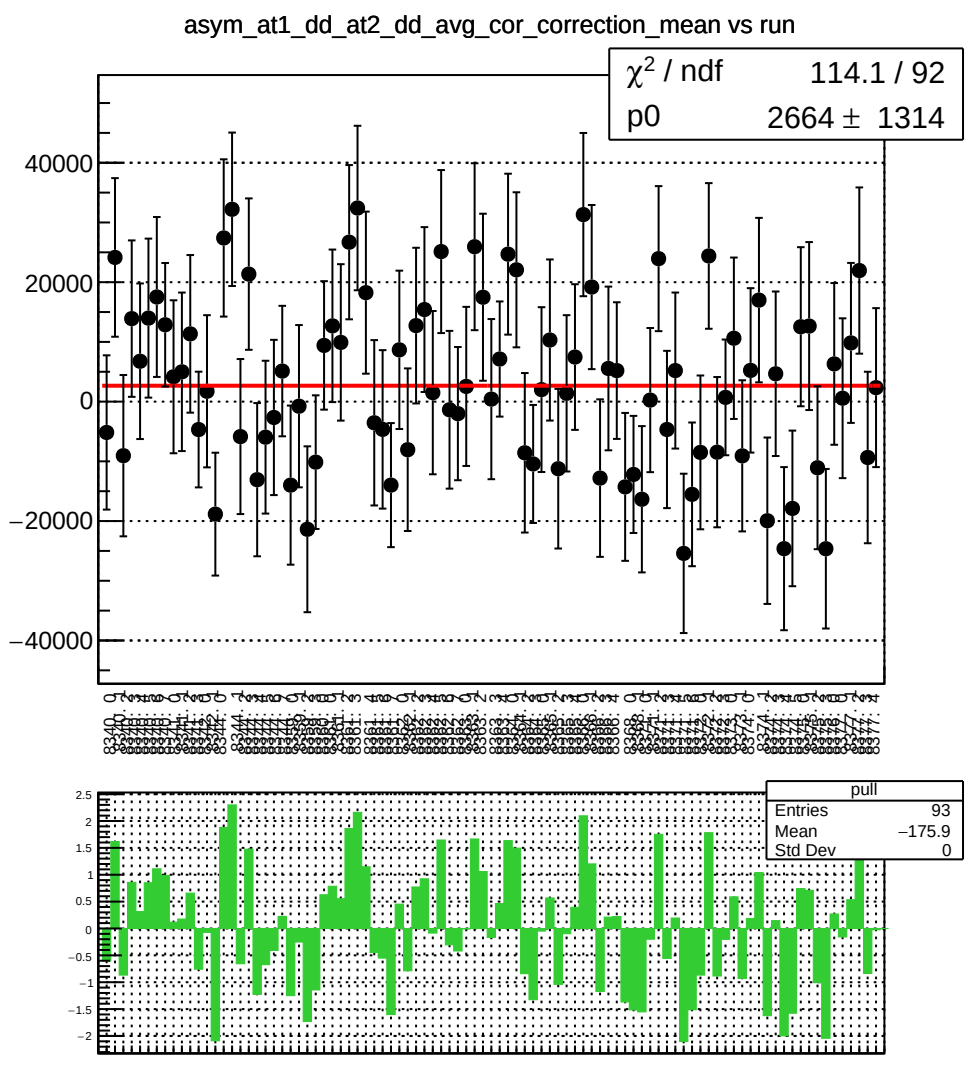
2
4
6
8

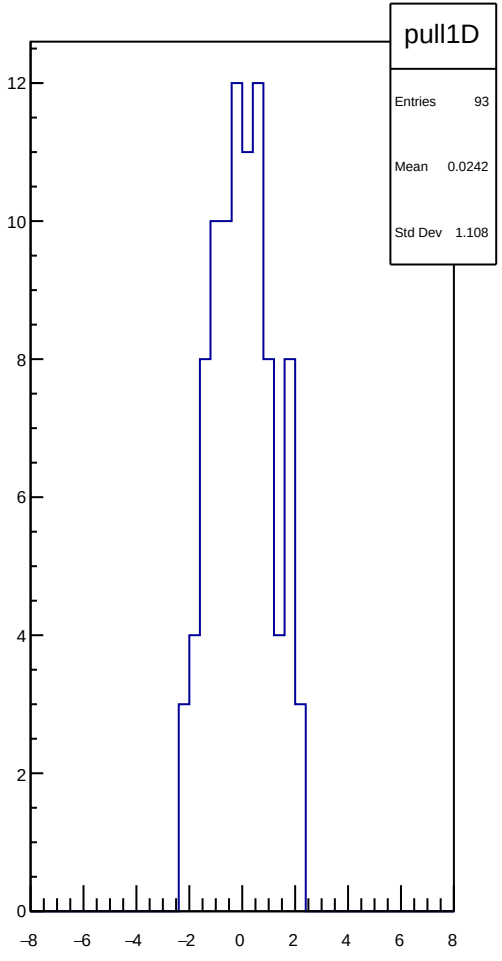

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 2637 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150


cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.48 / 92
p0 770.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4687
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.0242
Std Dev 1.108
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10
8
6
4
2
0
−8
−6
−4
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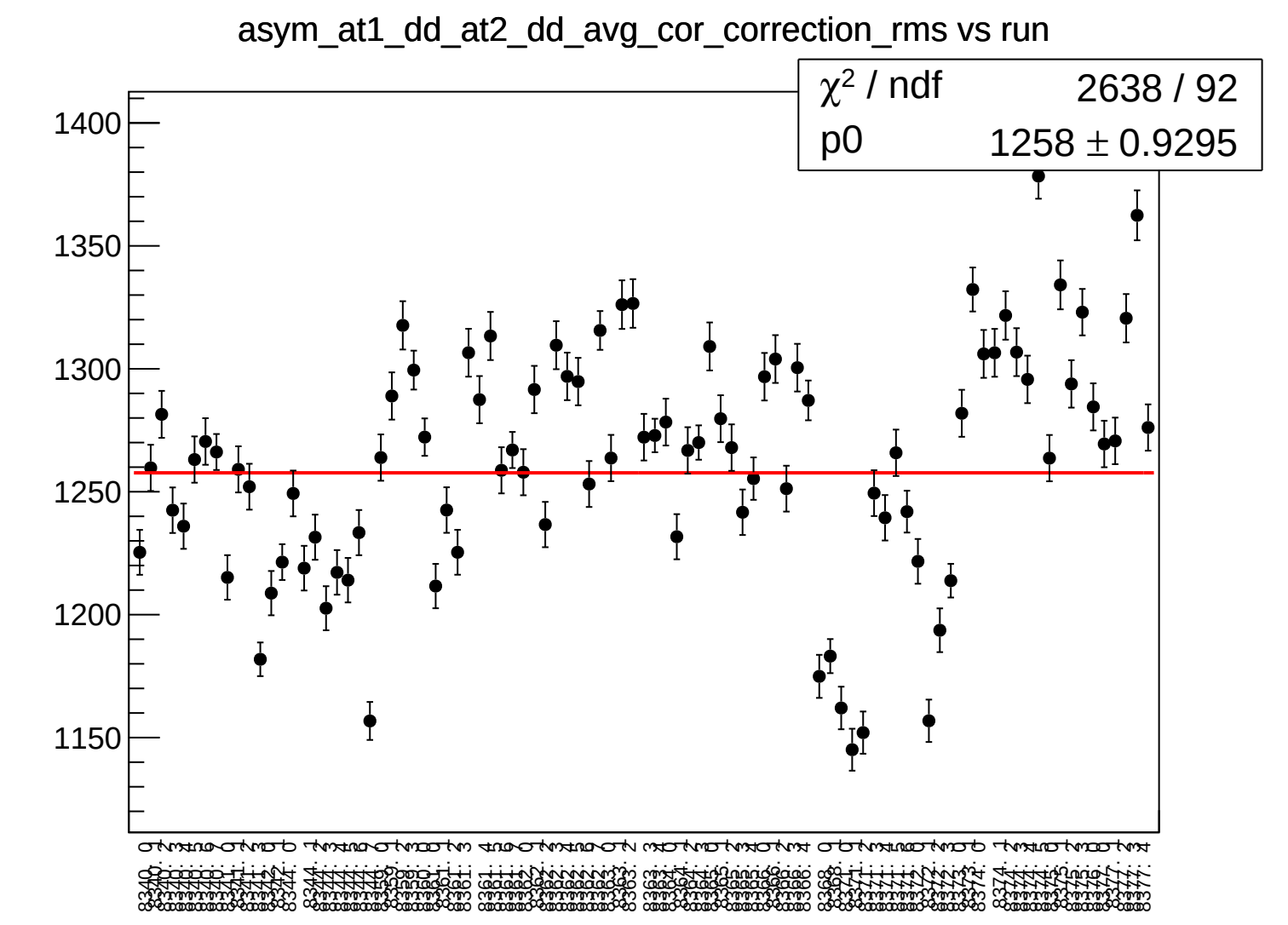
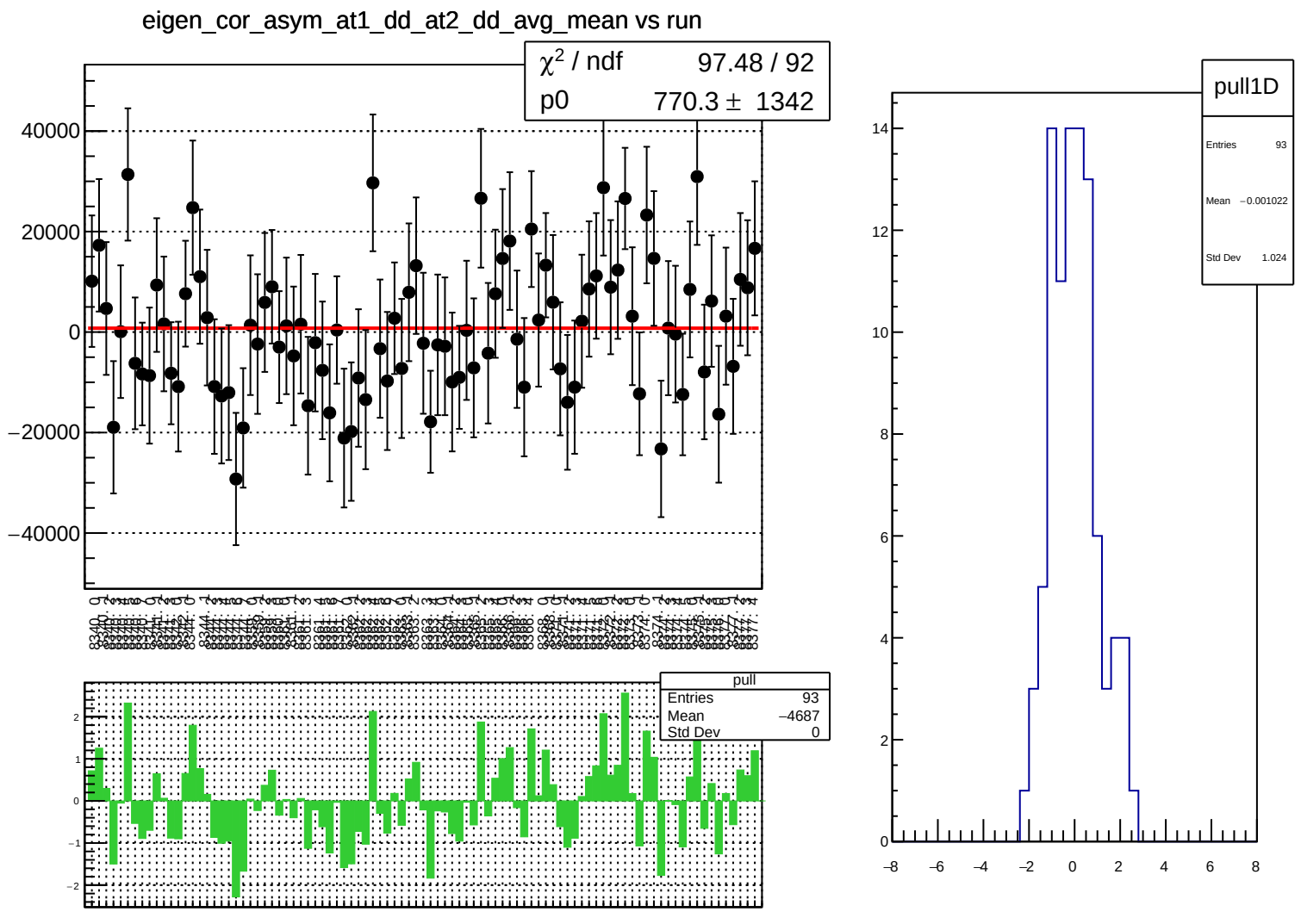
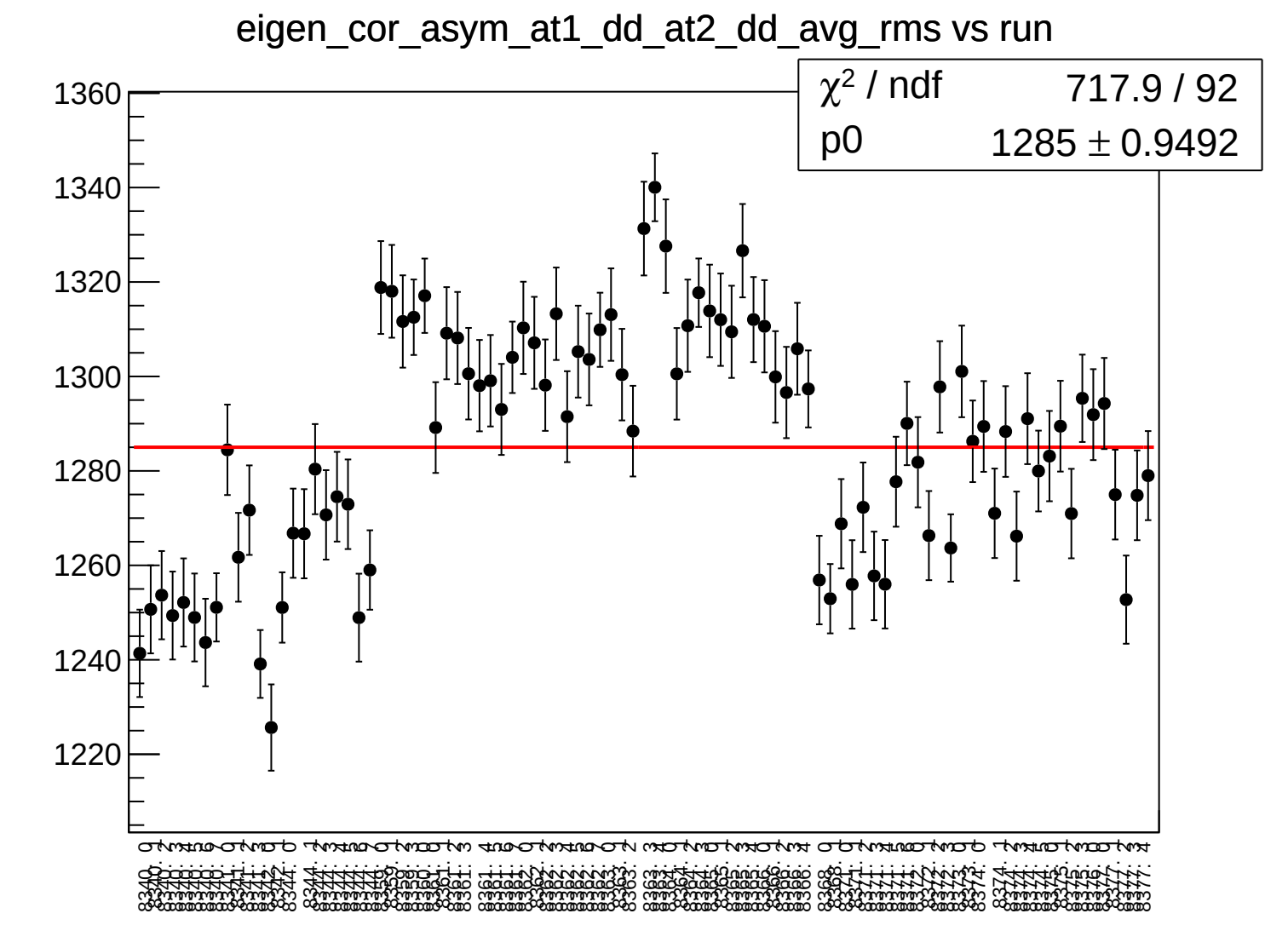
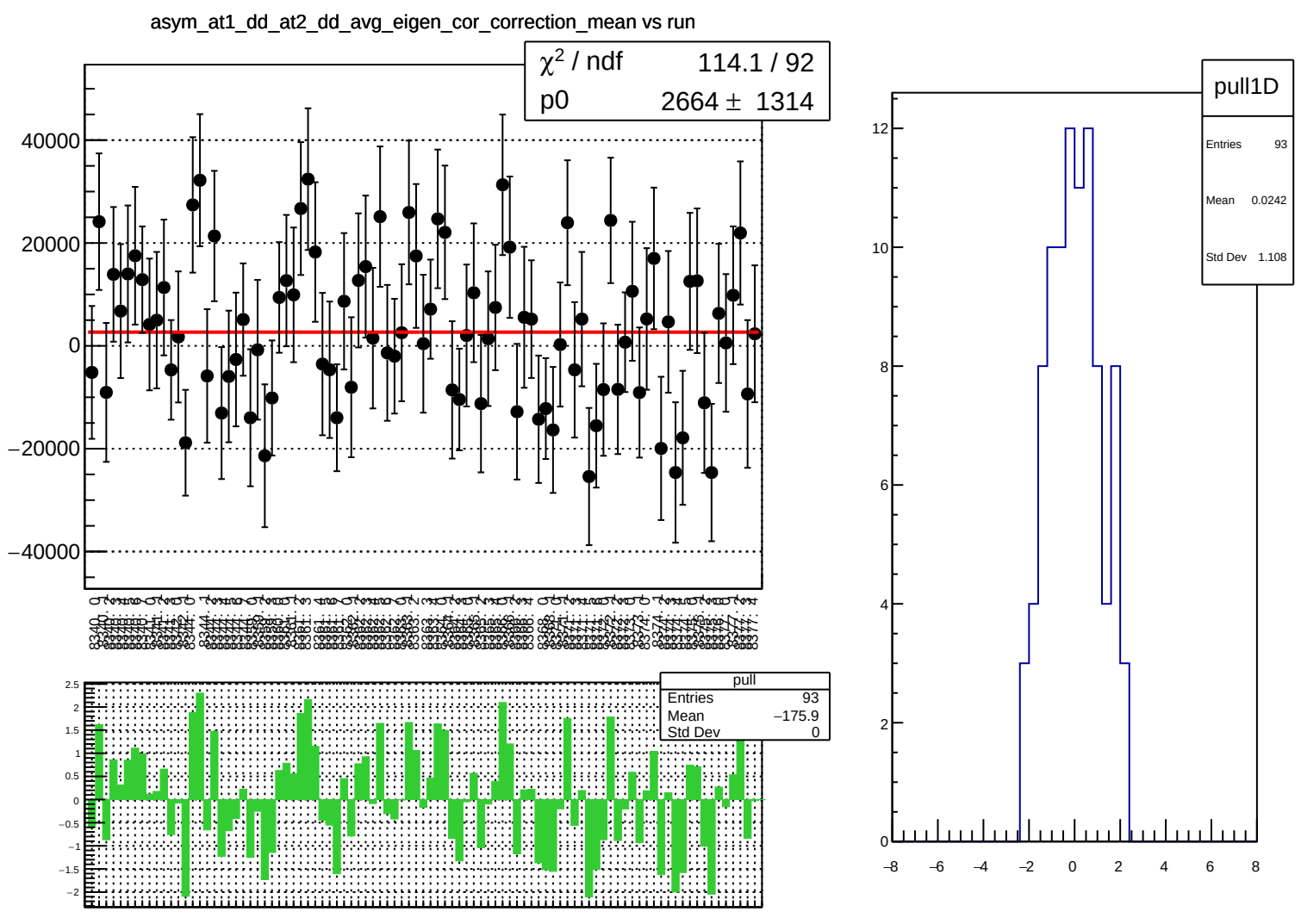
0
2
4
6
8


asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 2638 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150


eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.48 / 92
p0 770.3 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4687
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.001022
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 717.9 / 92
p0 1285 ± 0.9492
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.1 / 92
p0 2664 ± 1314
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −175.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0242
Std Dev 1.108
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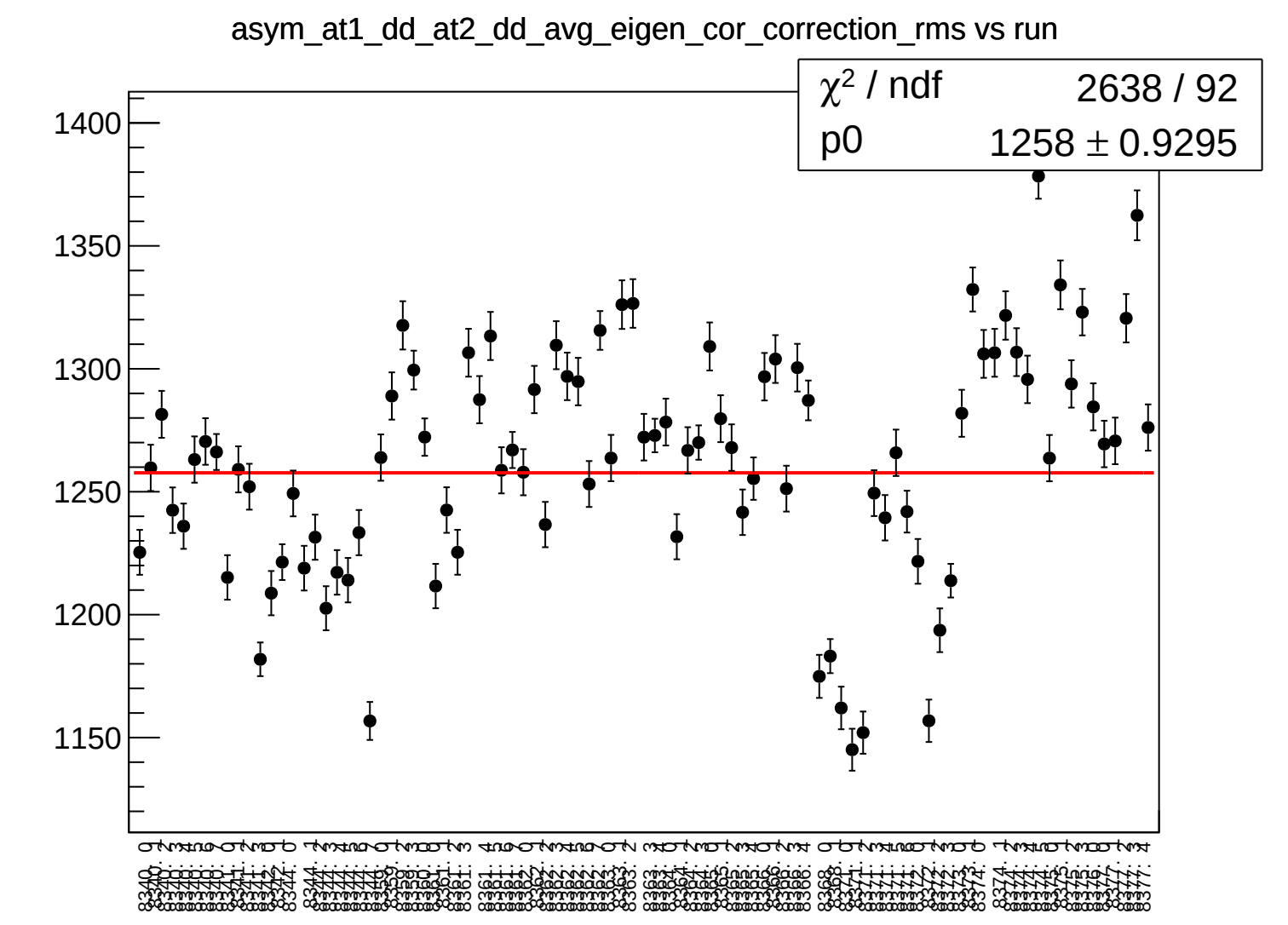
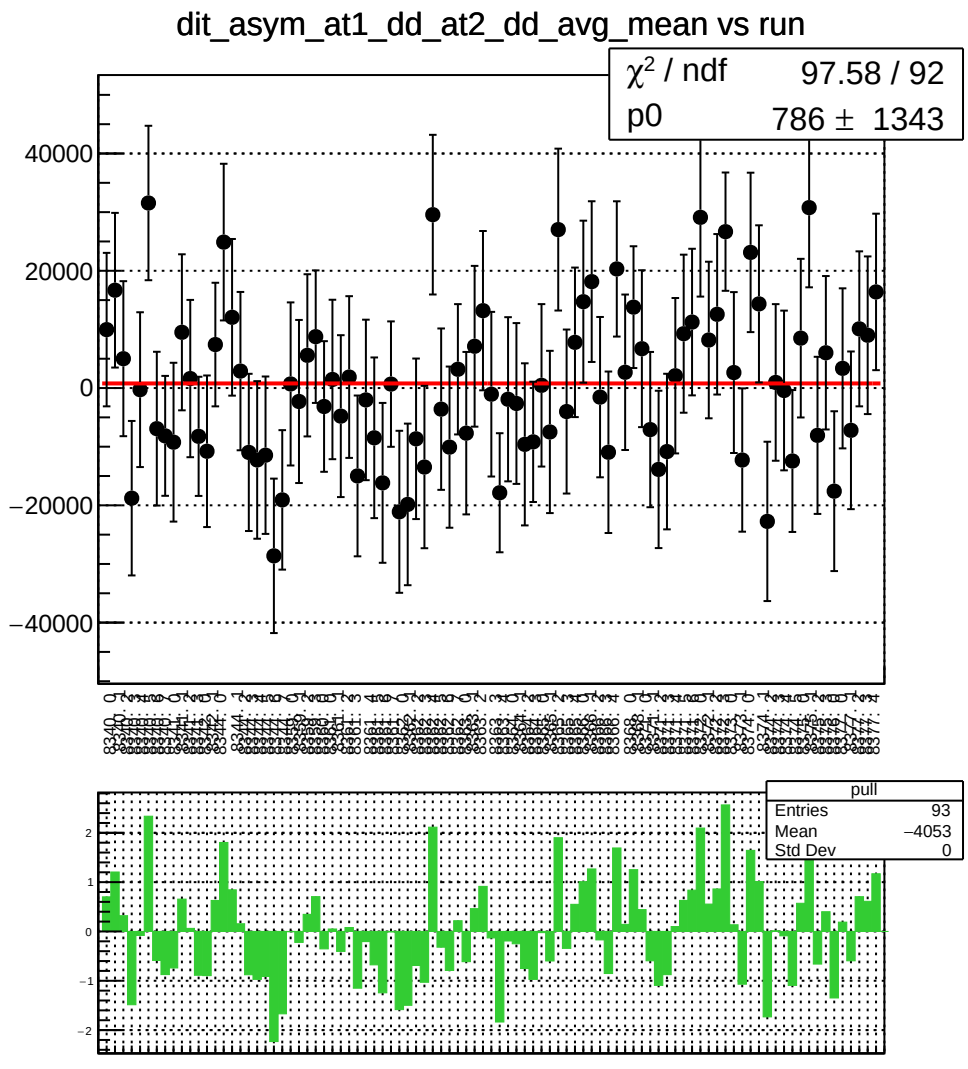
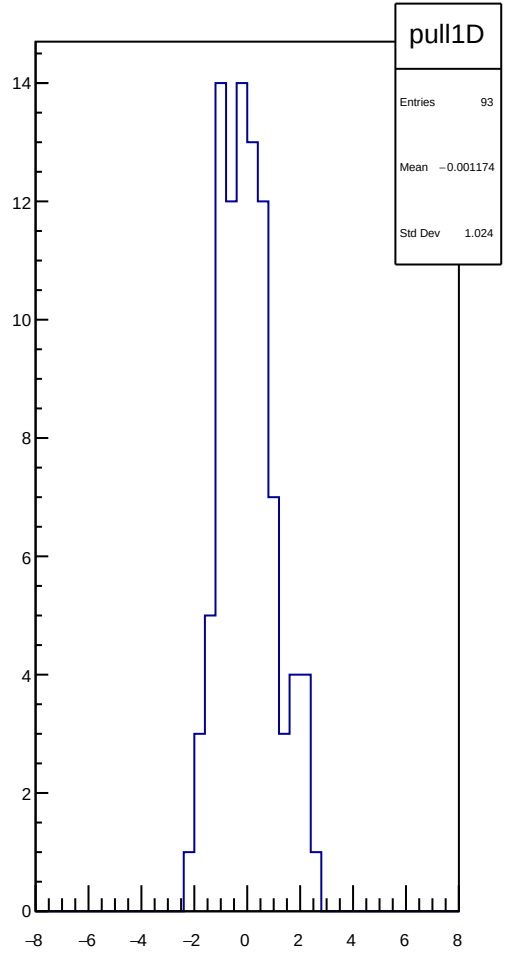
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2638 / 92
p0 1258 ± 0.9295
1400
1350
1300
1250
1200
1150


dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.58 / 92
p0 786 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4053
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001174
Std Dev 1.024
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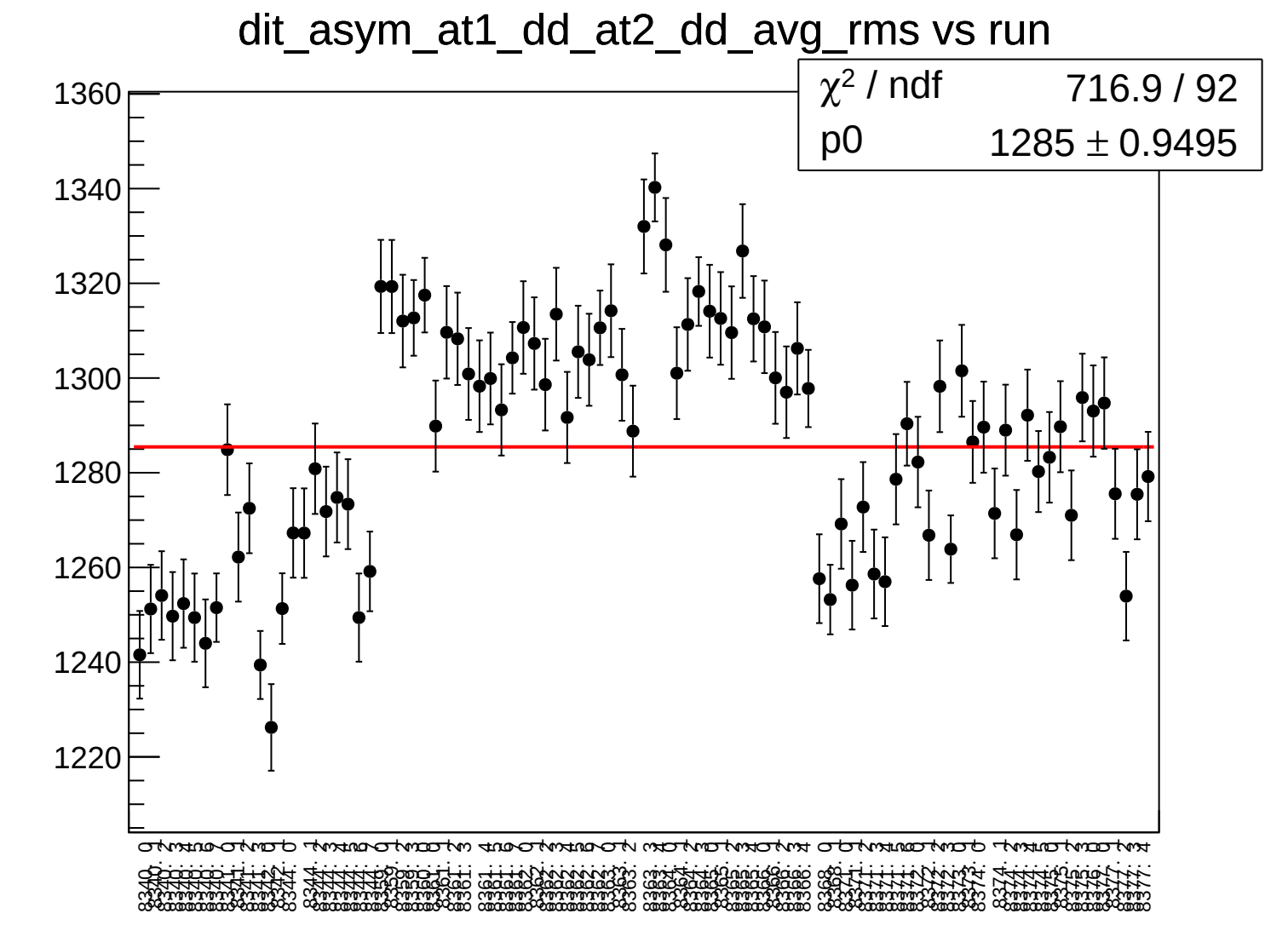
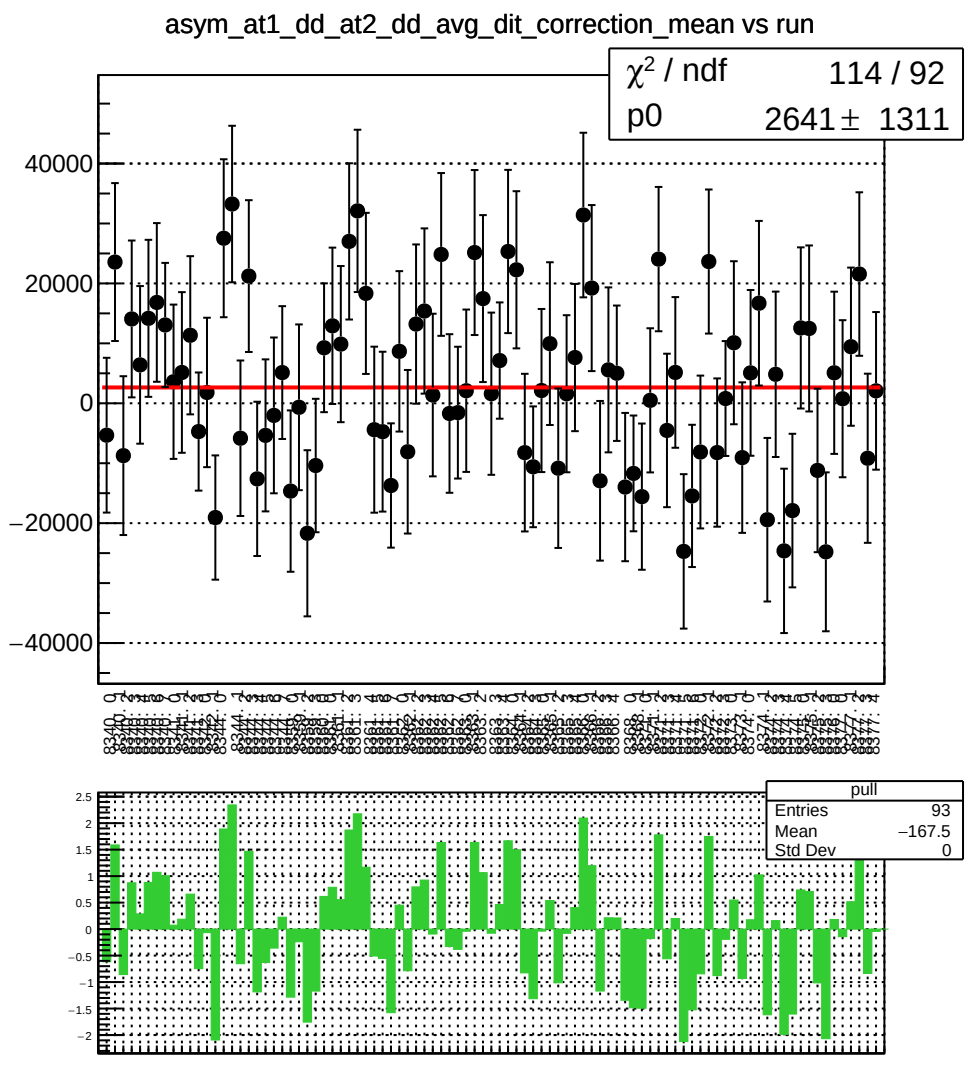
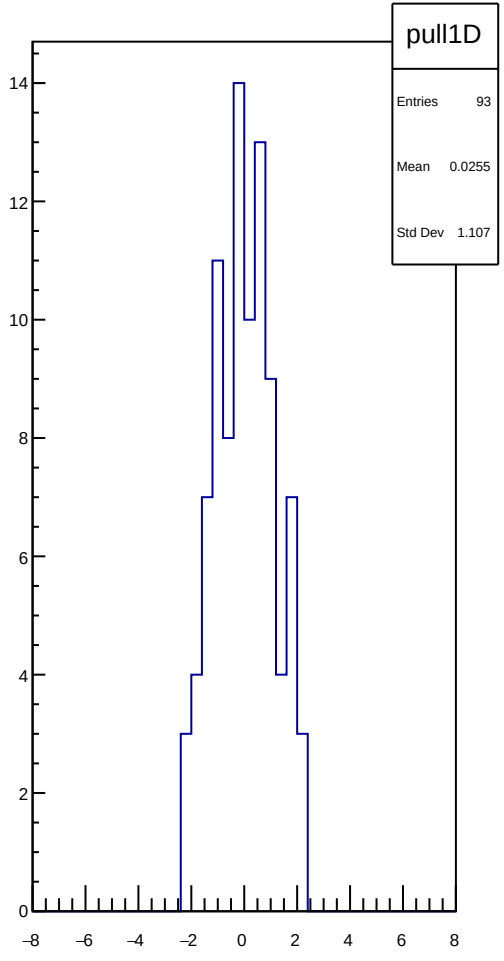
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 716.9 / 92
p0 1285 ± 0.9495
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 114 / 92
p0 2641 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean 0.0255
Std Dev 1.107
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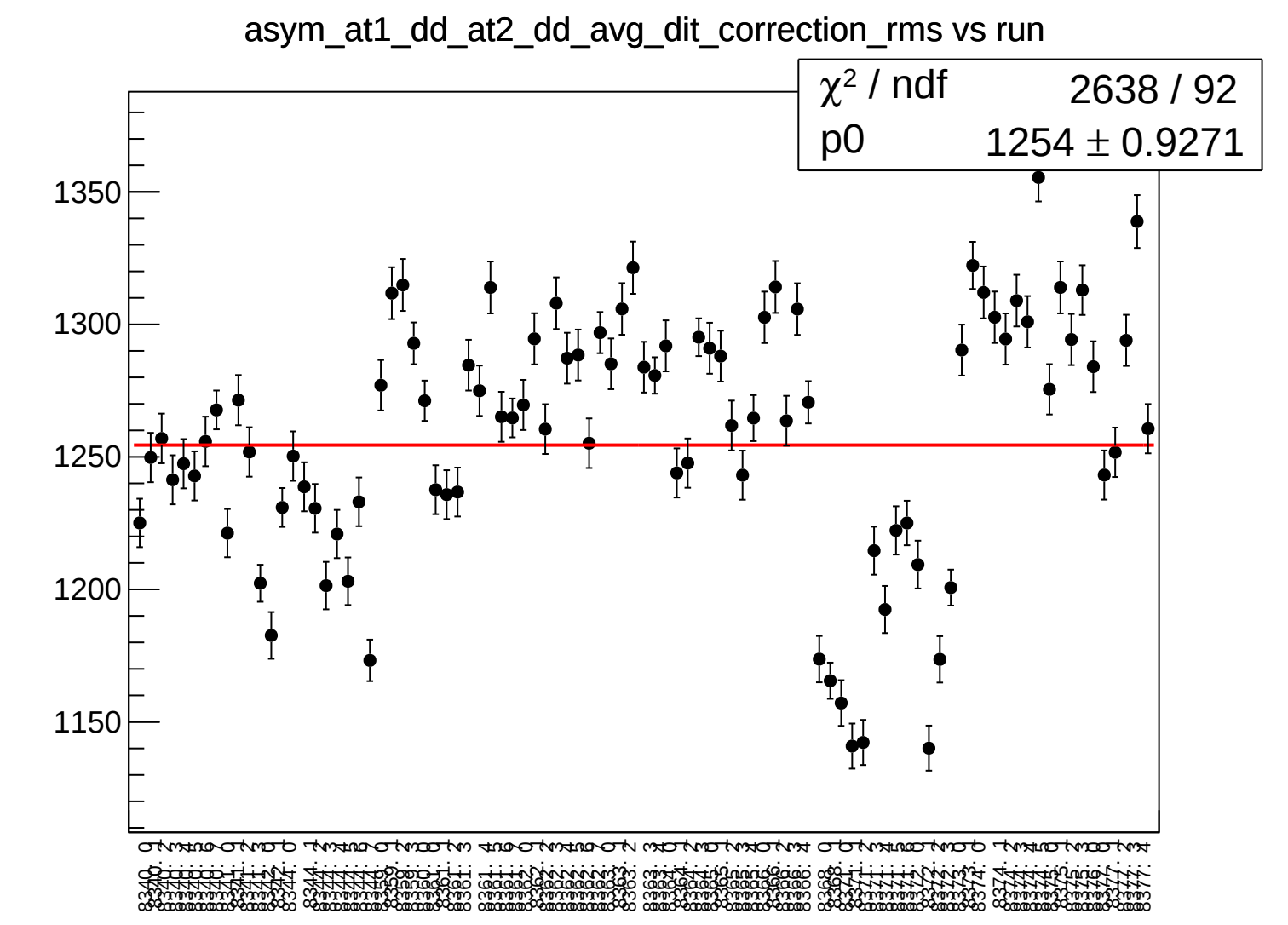
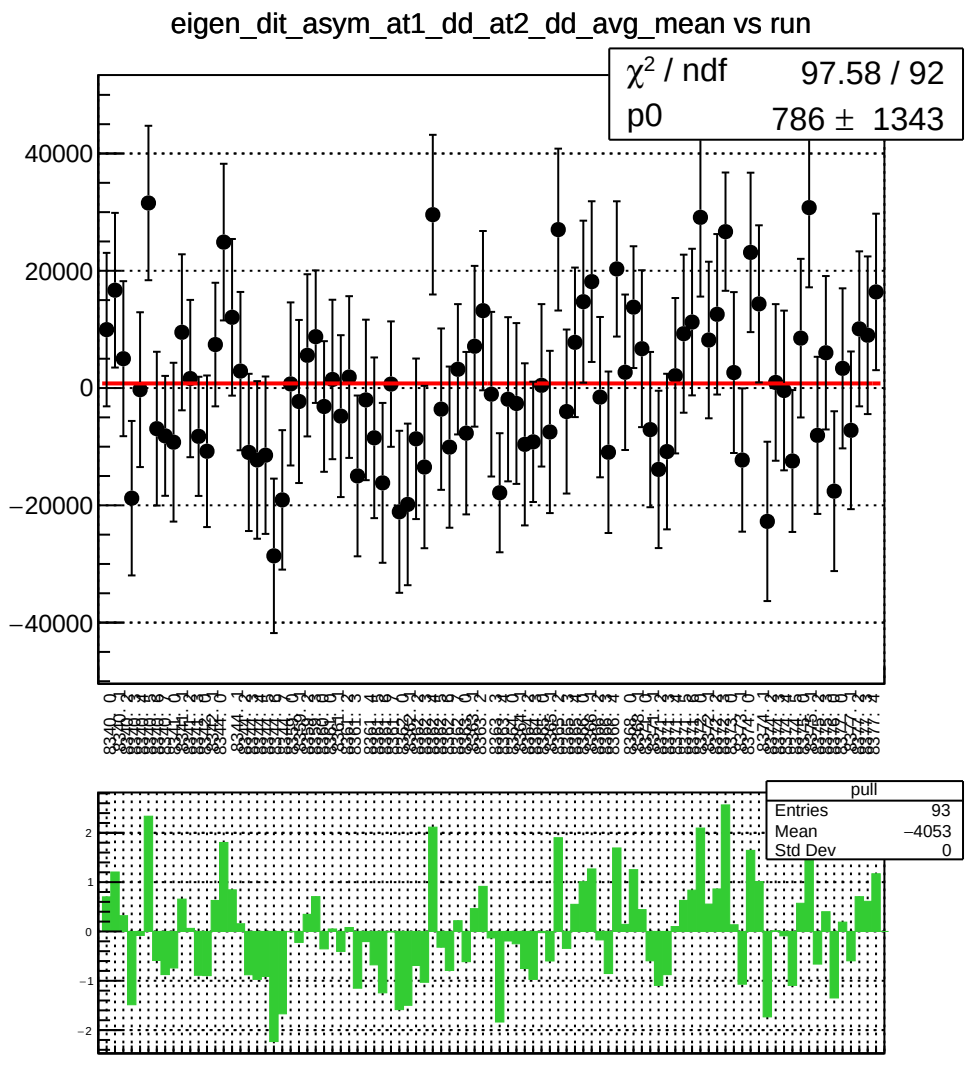
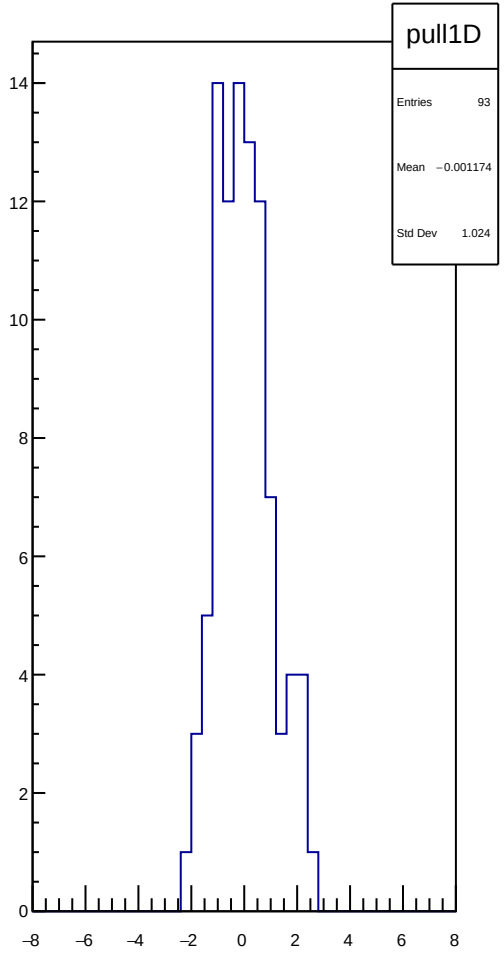
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2638 / 92
p0 1254 ± 0.9271
1350
1300
1250
1200
1150


eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 97.58 / 92
p0 786 ± 1343
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4053
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.001174
Std Dev 1.024
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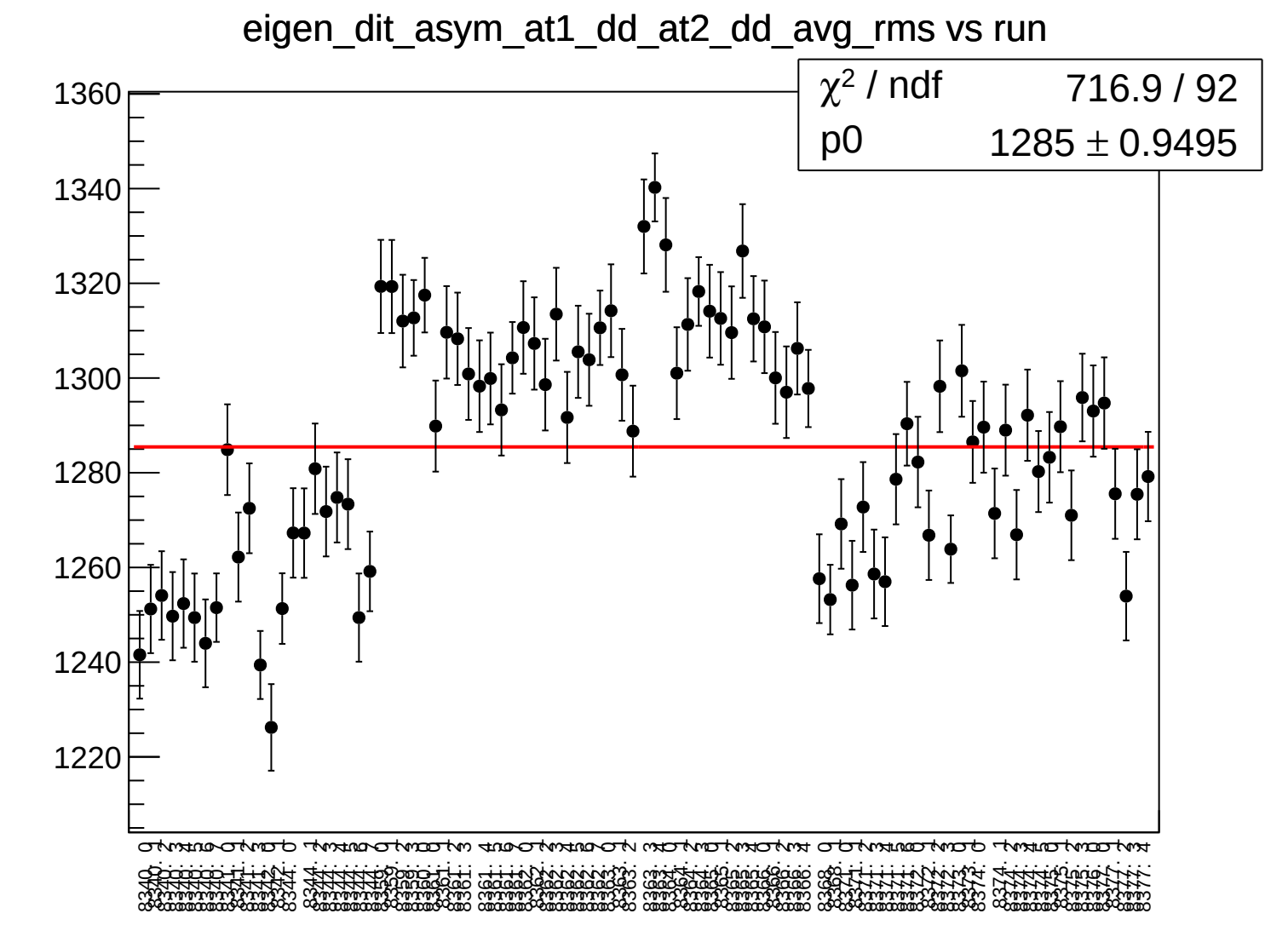
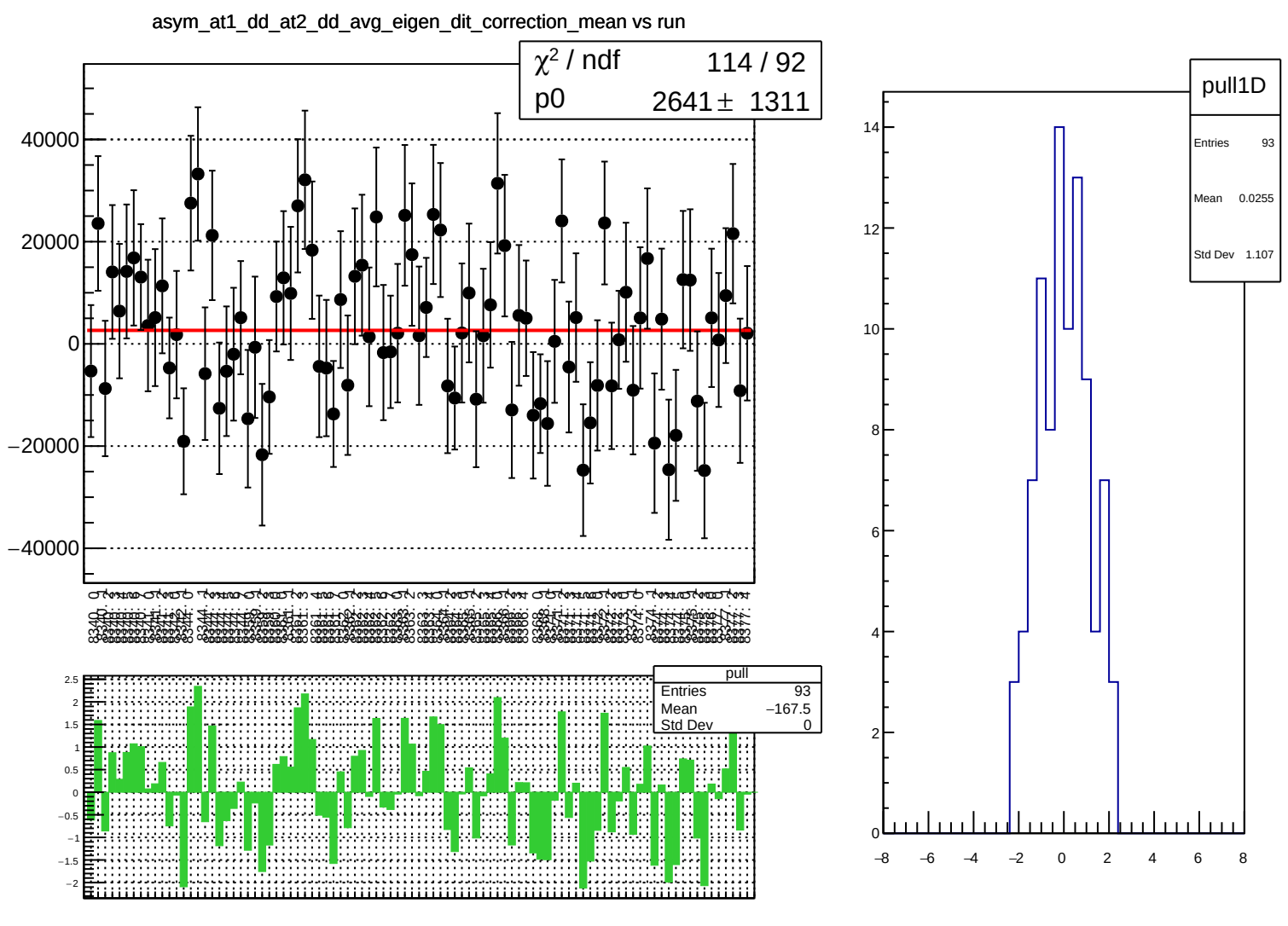
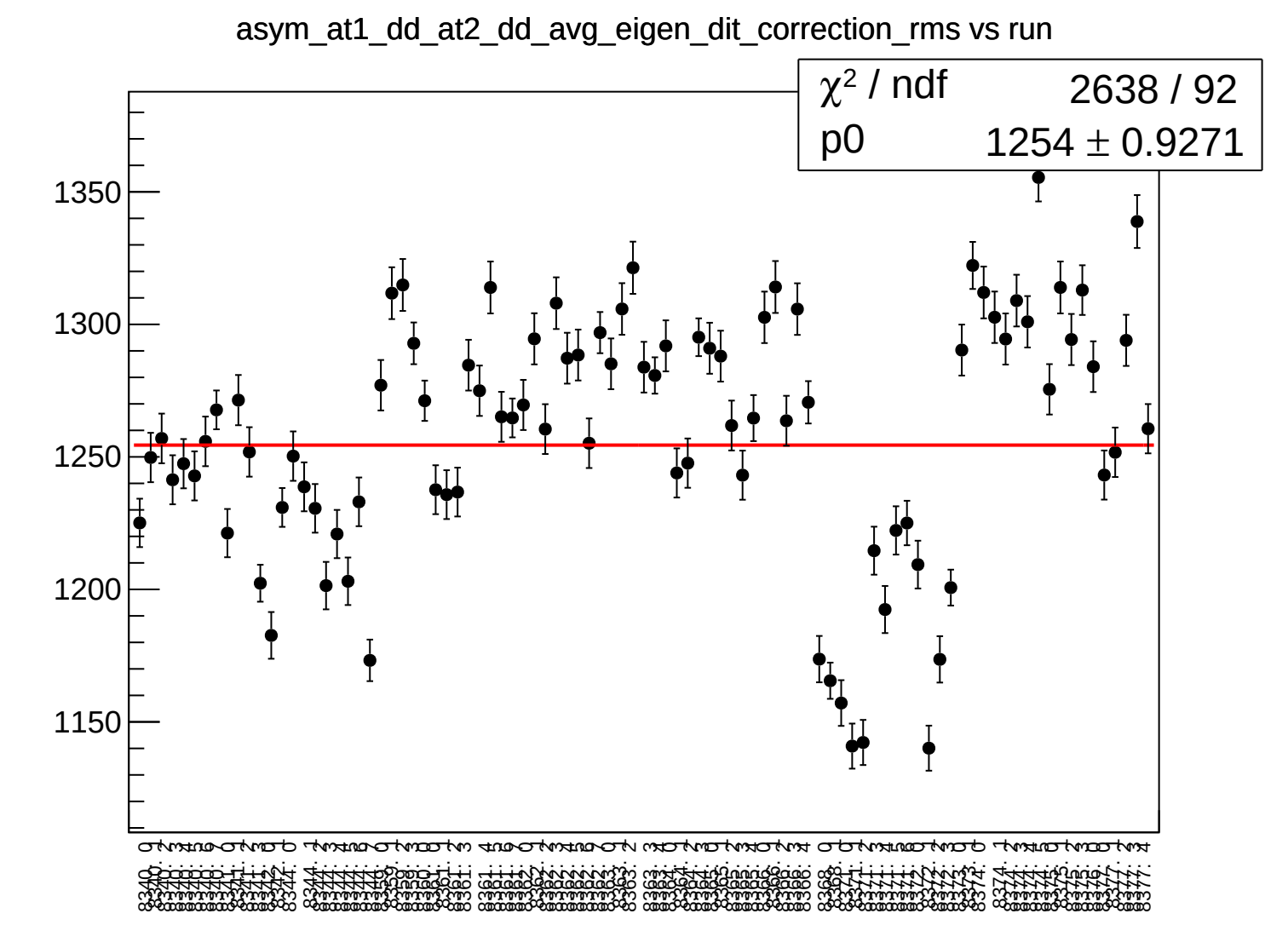
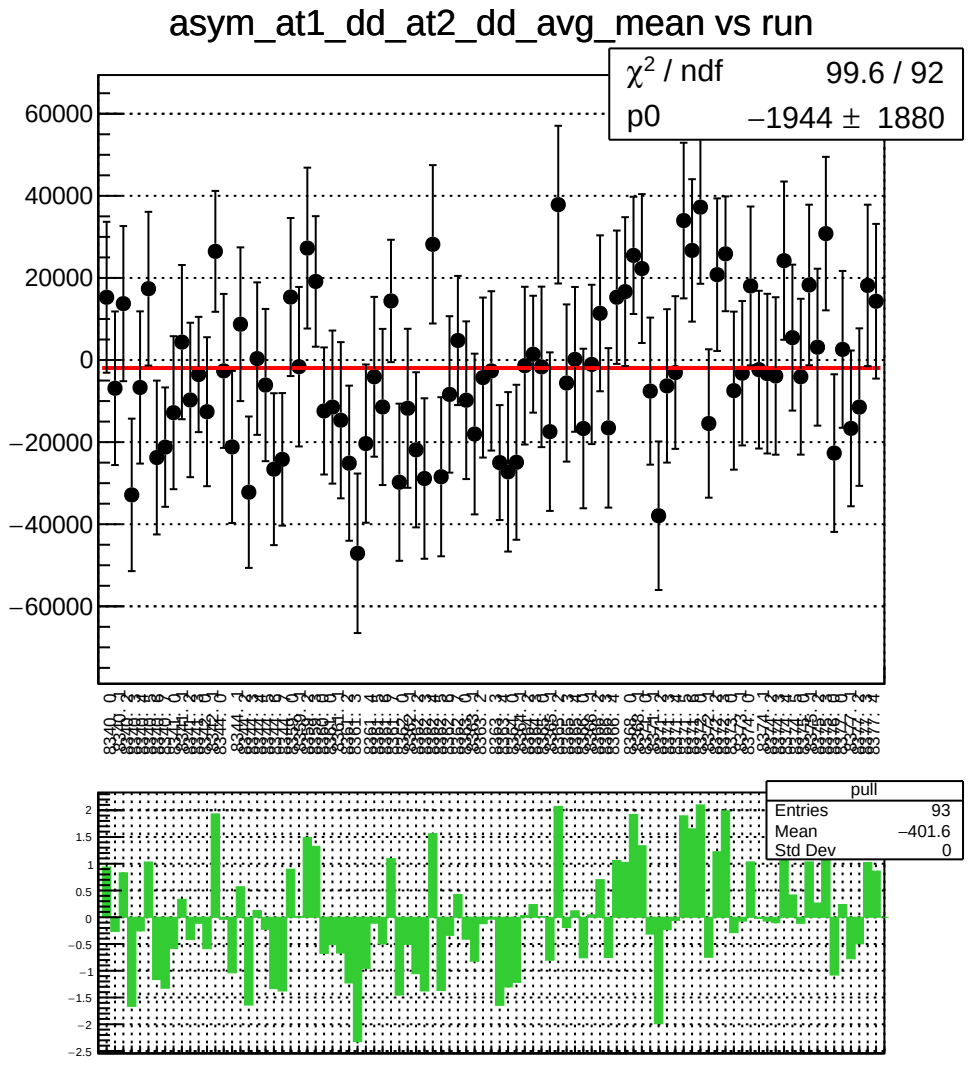
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 716.9 / 92
p0 1285 ± 0.9495
1360
1340
1320
1300
1280
1260
1240
1220


asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 114 / 92
p0 2641 ± 1311
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −167.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.0255
Std Dev 1.107
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 2638 / 92
p0 1254 ± 0.9271
1350
1300
1250
1200
1150


asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 99.6 / 92
p0 −1944 ± 1880
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −401.6
Std Dev 0
2
1.5
1
0.5
0
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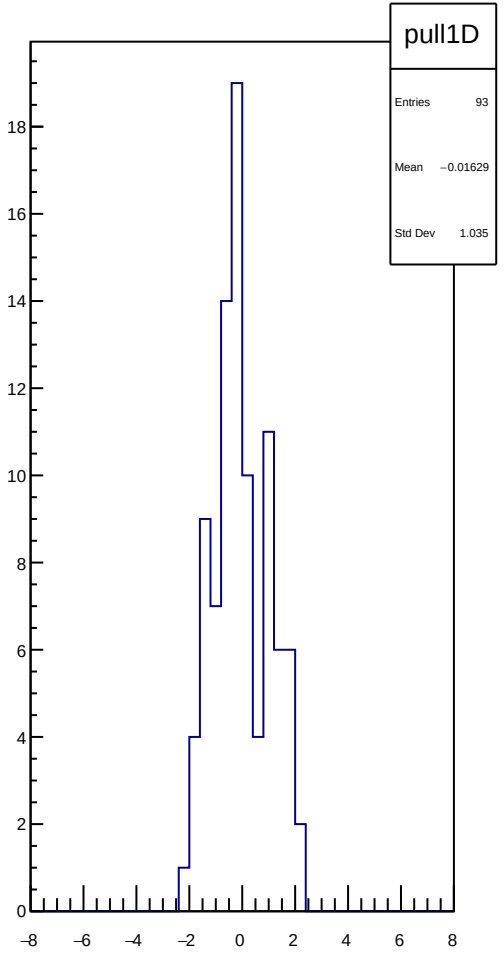
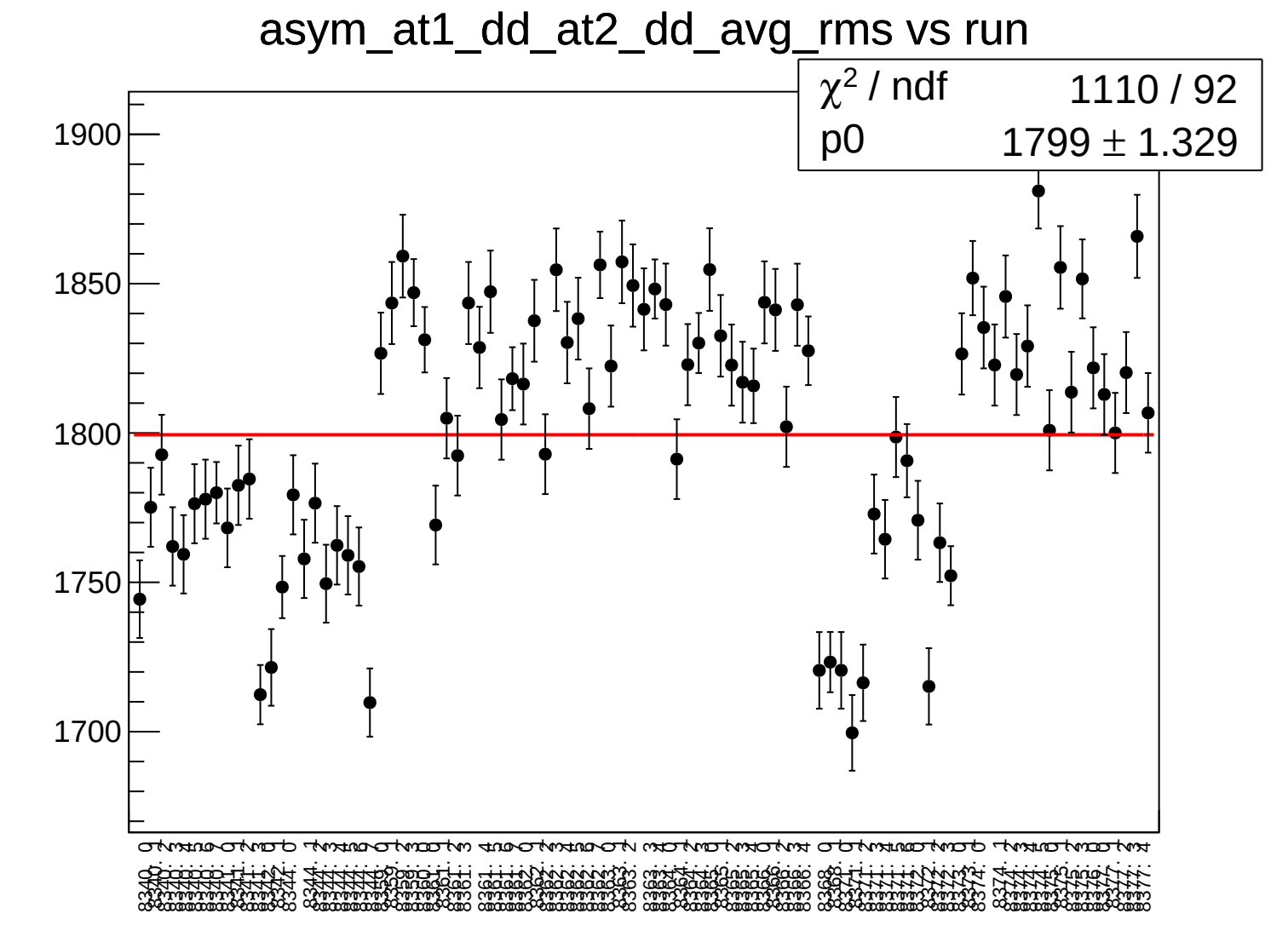
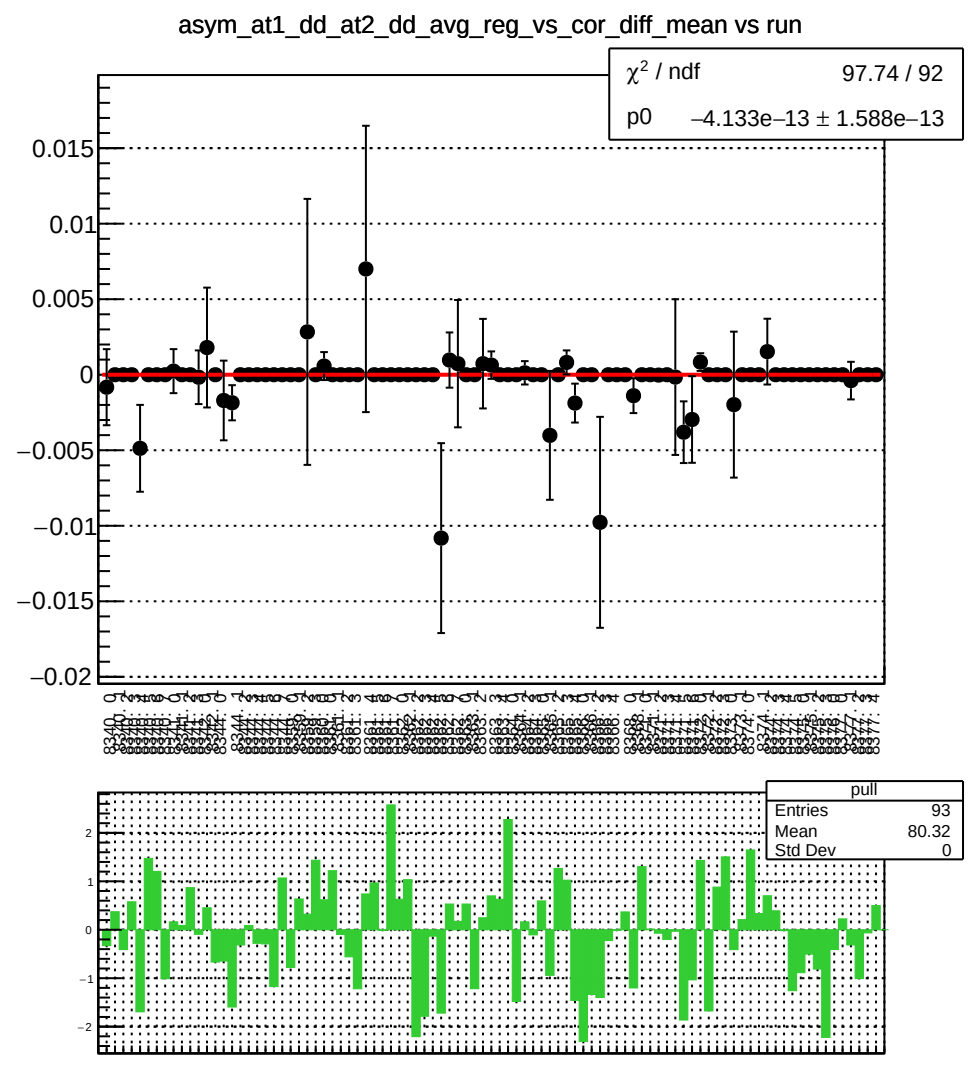
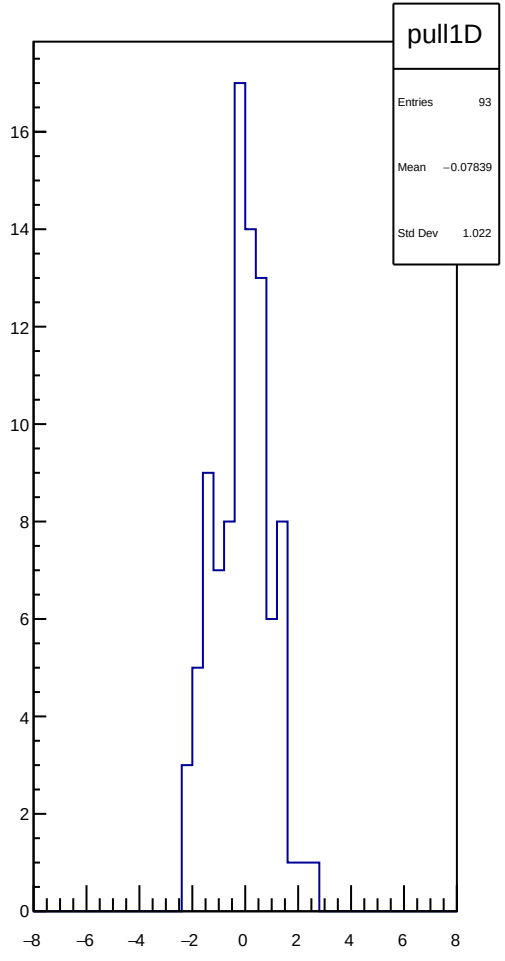
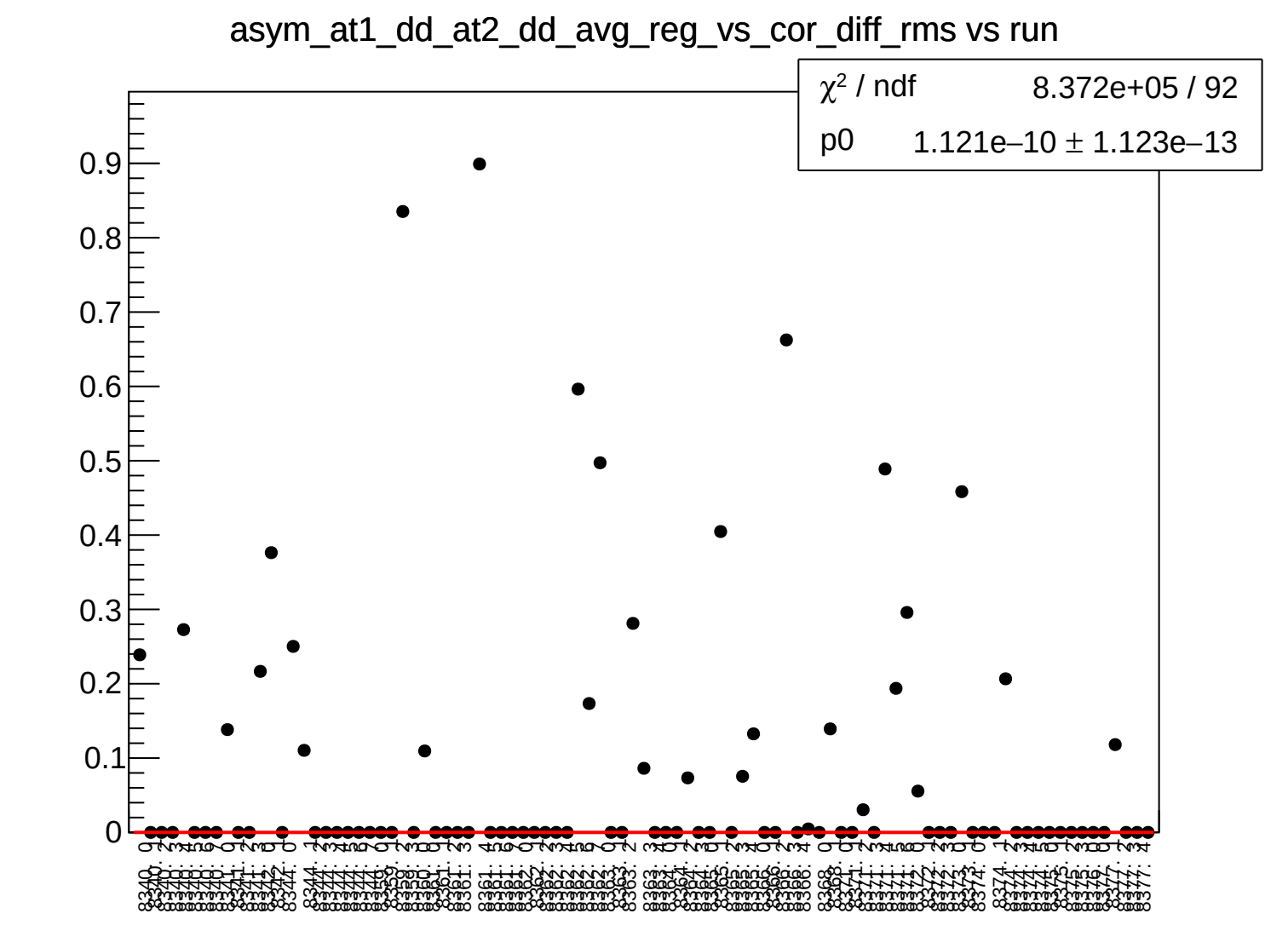
−1
−1.5
−2
−2.5

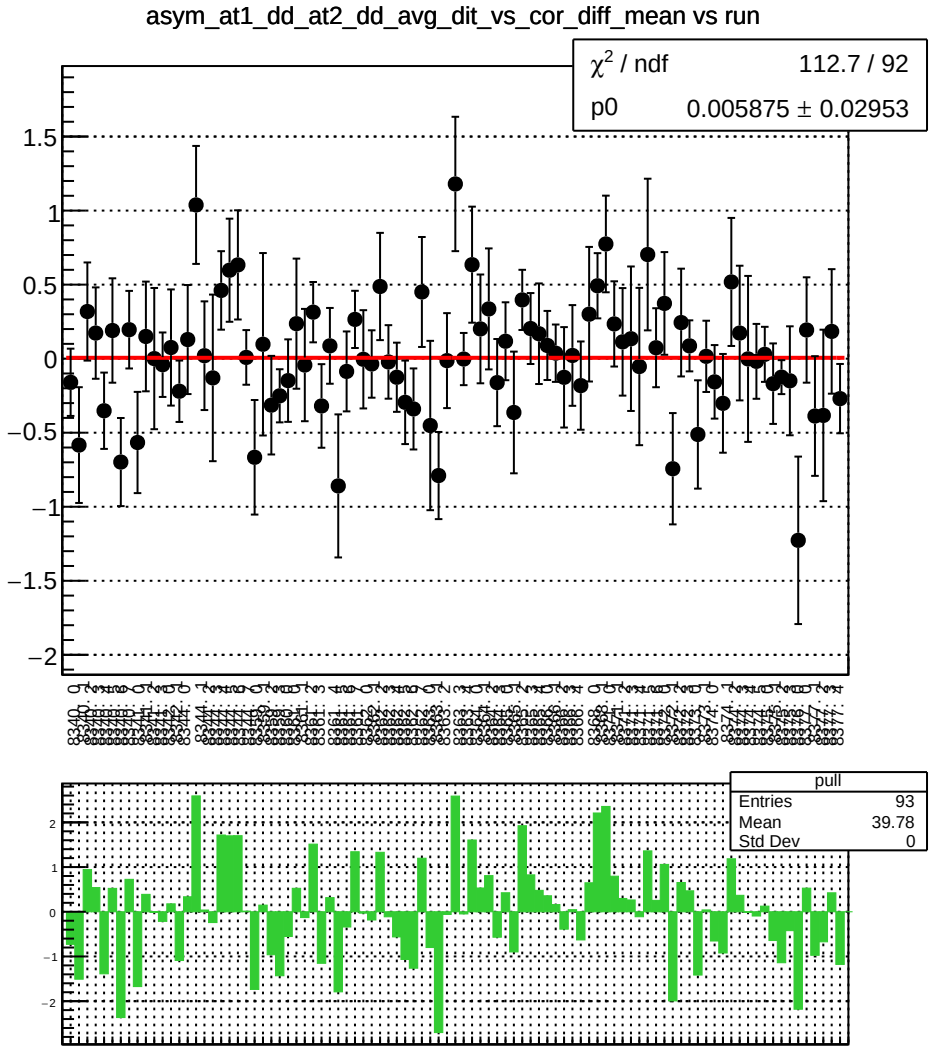

pull1D
Entries 93
Mean −0.01629
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

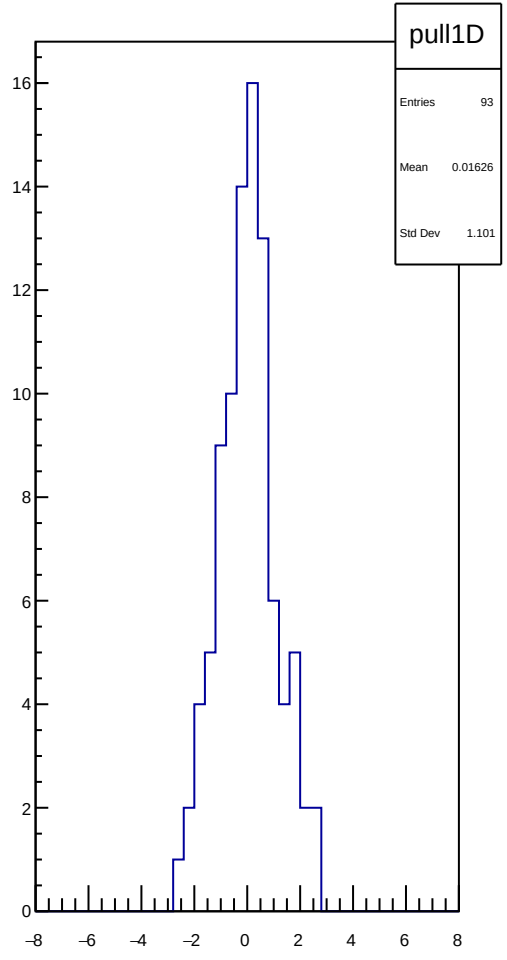

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1110 / 92
p0 1799 ± 1.329
1900
1850
1800
1750
1700

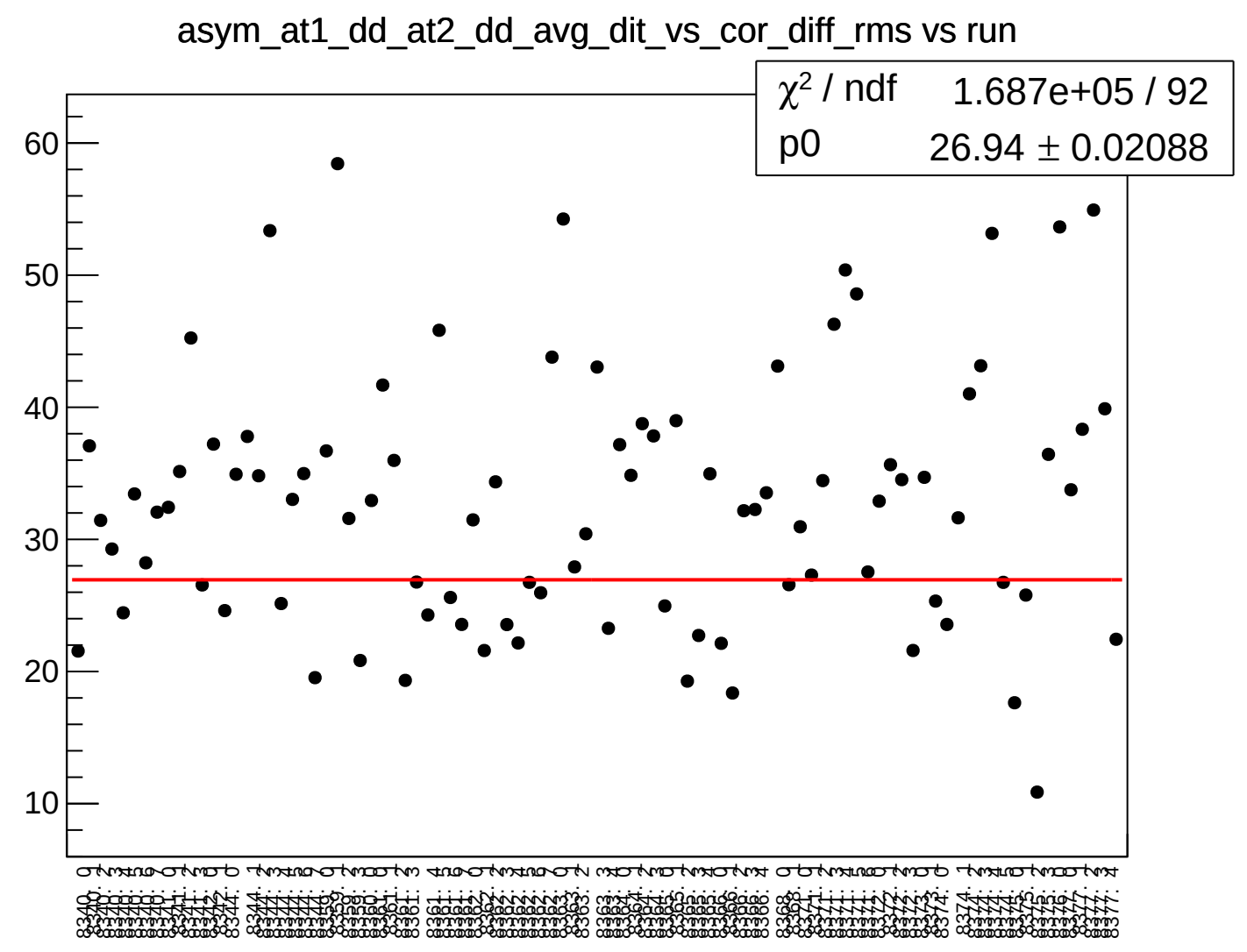

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 97.74 / 92
p0 −4.133e−13 ± 1.588e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 93
Mean 80.32
Std Dev 0
2
1
0
−1
−2

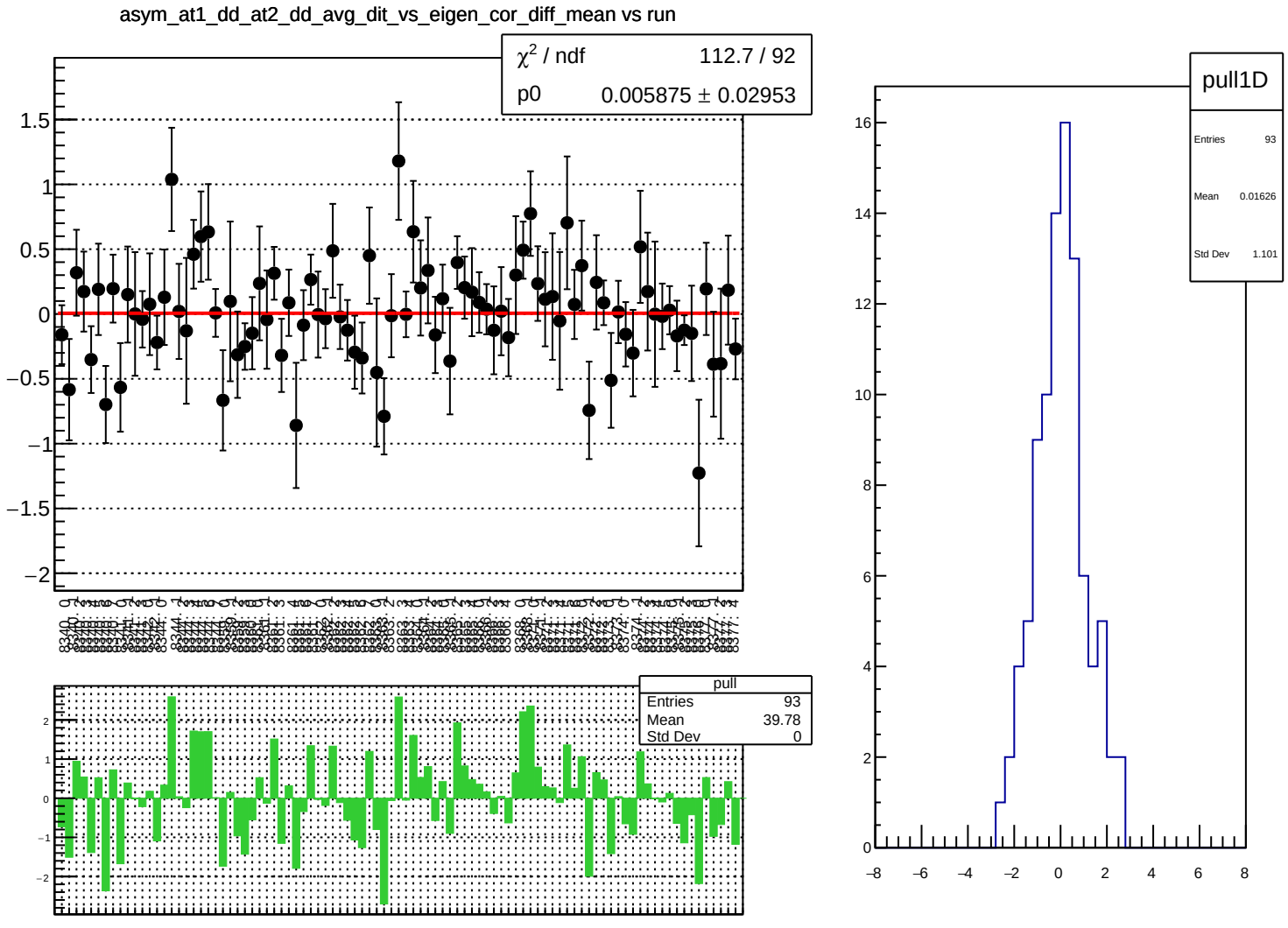

pull1D
Entries 93
Mean −0.07839
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

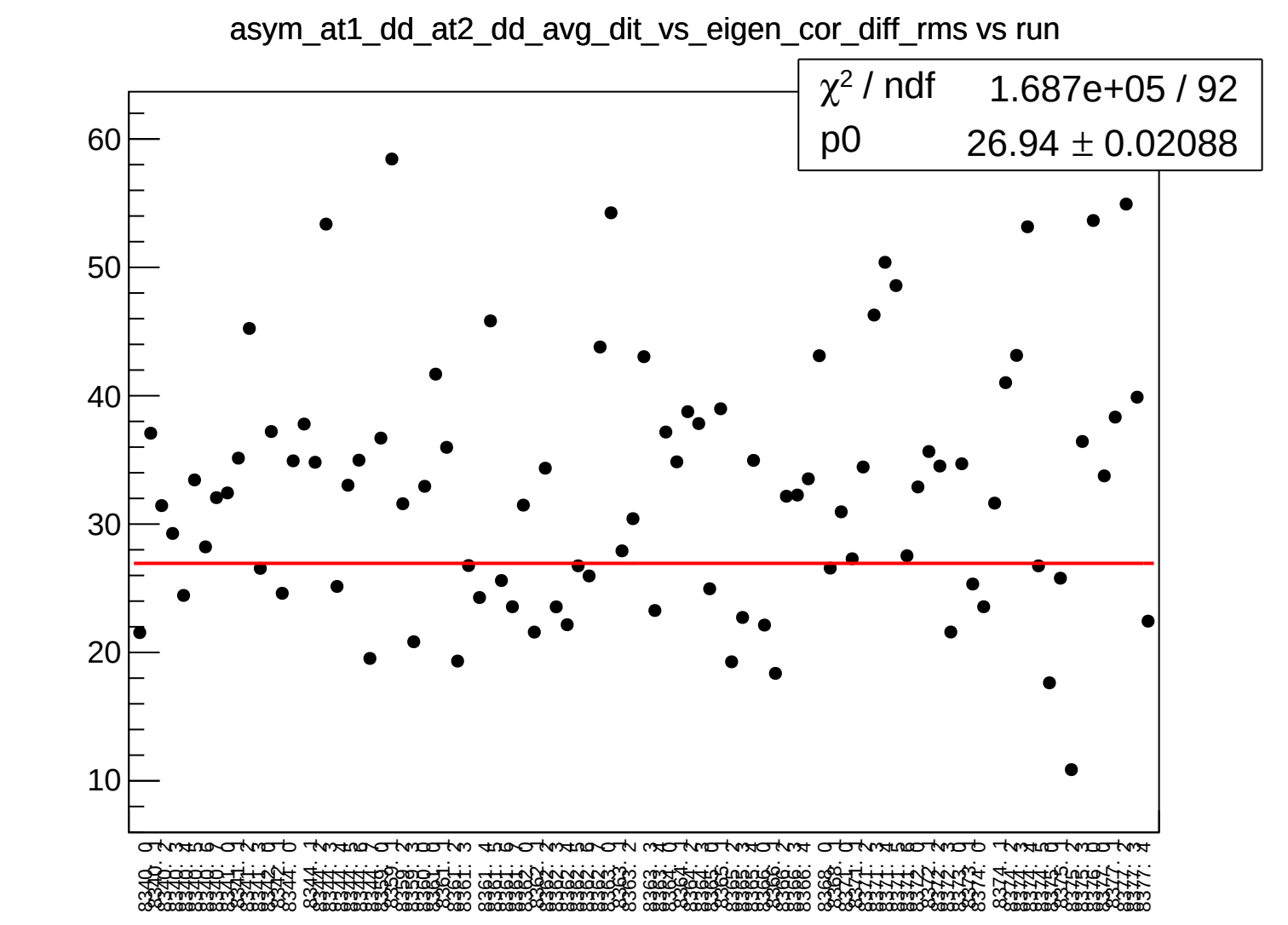

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.372e+05 / 92
p0 1.121e−10 ± 1.123e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

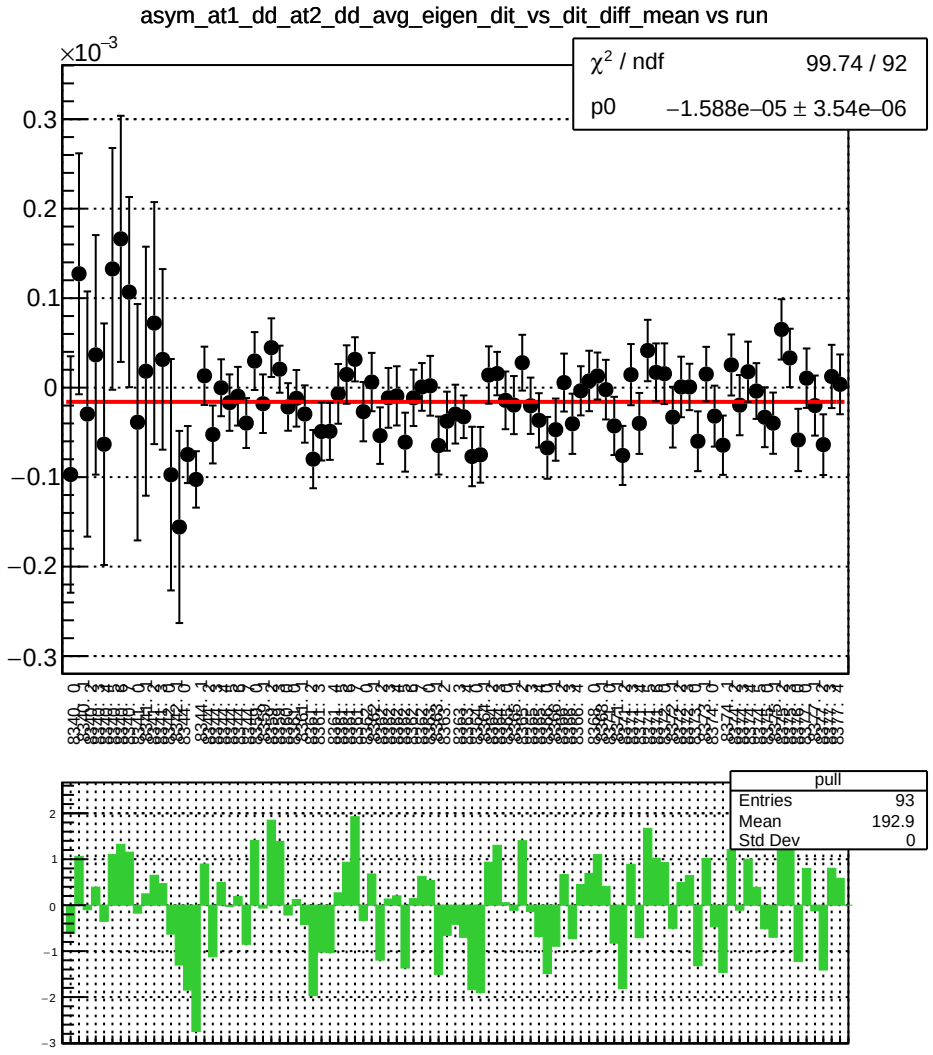

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005875 ± 0.02953
pull
Entries 93
Mean 39.78
Std Dev 0

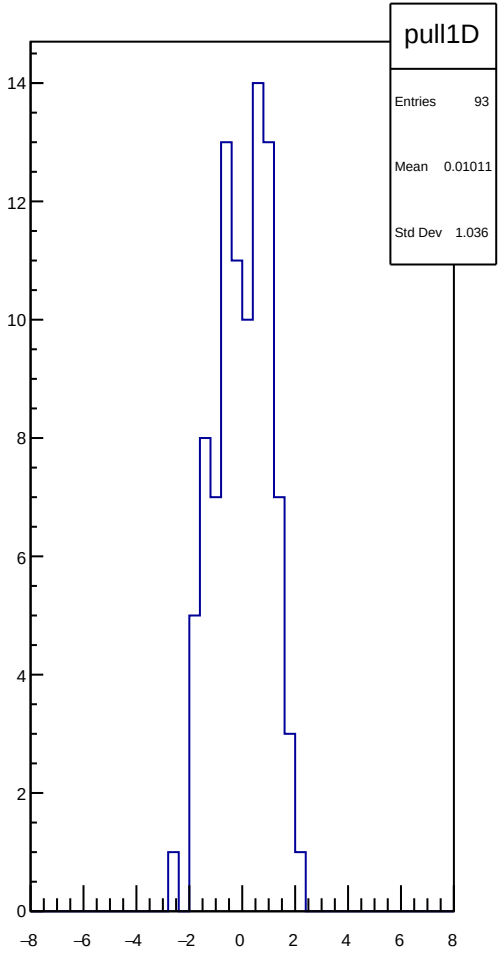

pull1D
Entries 93
Mean 0.01626
Std Dev 1.101

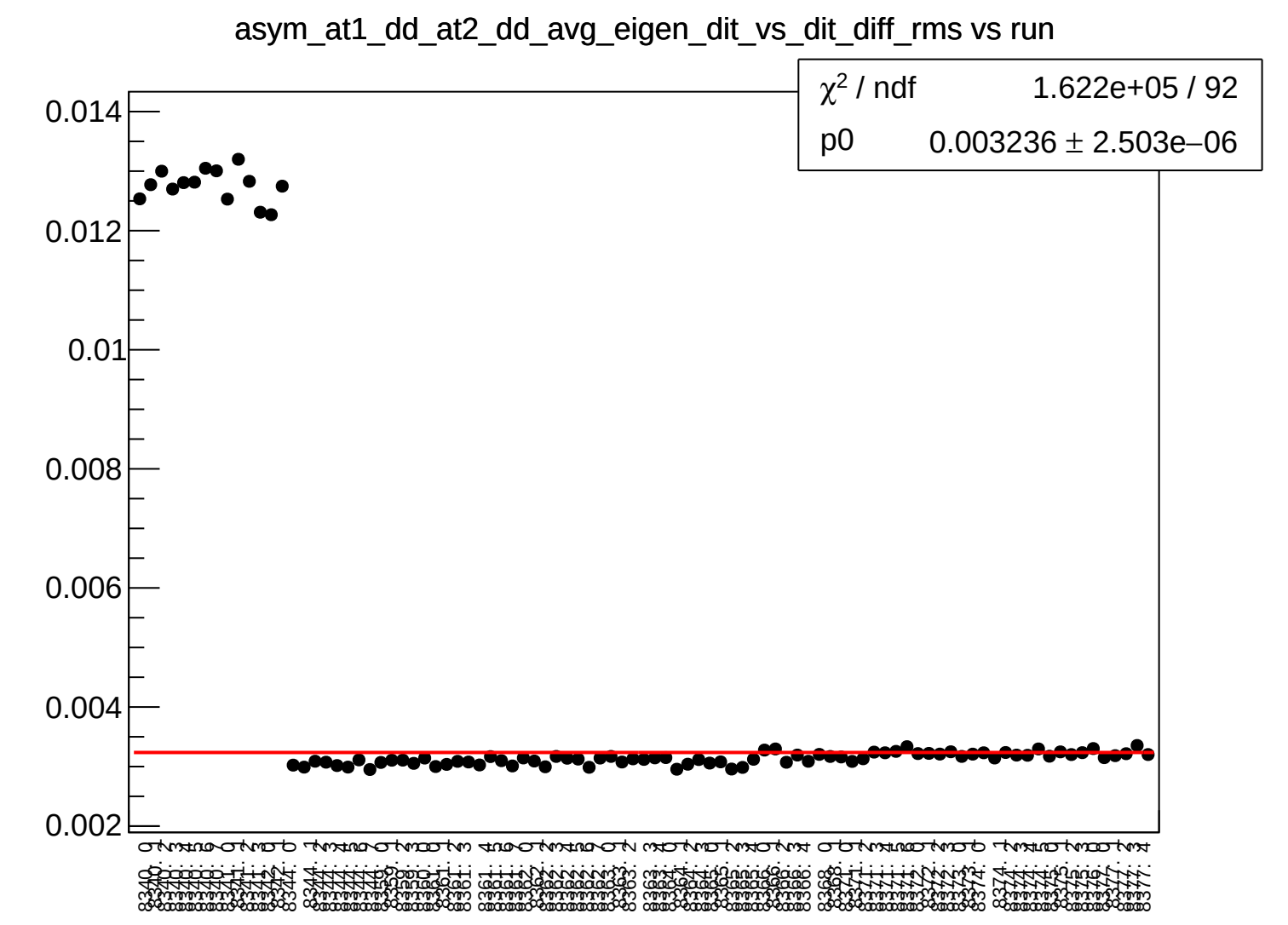

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

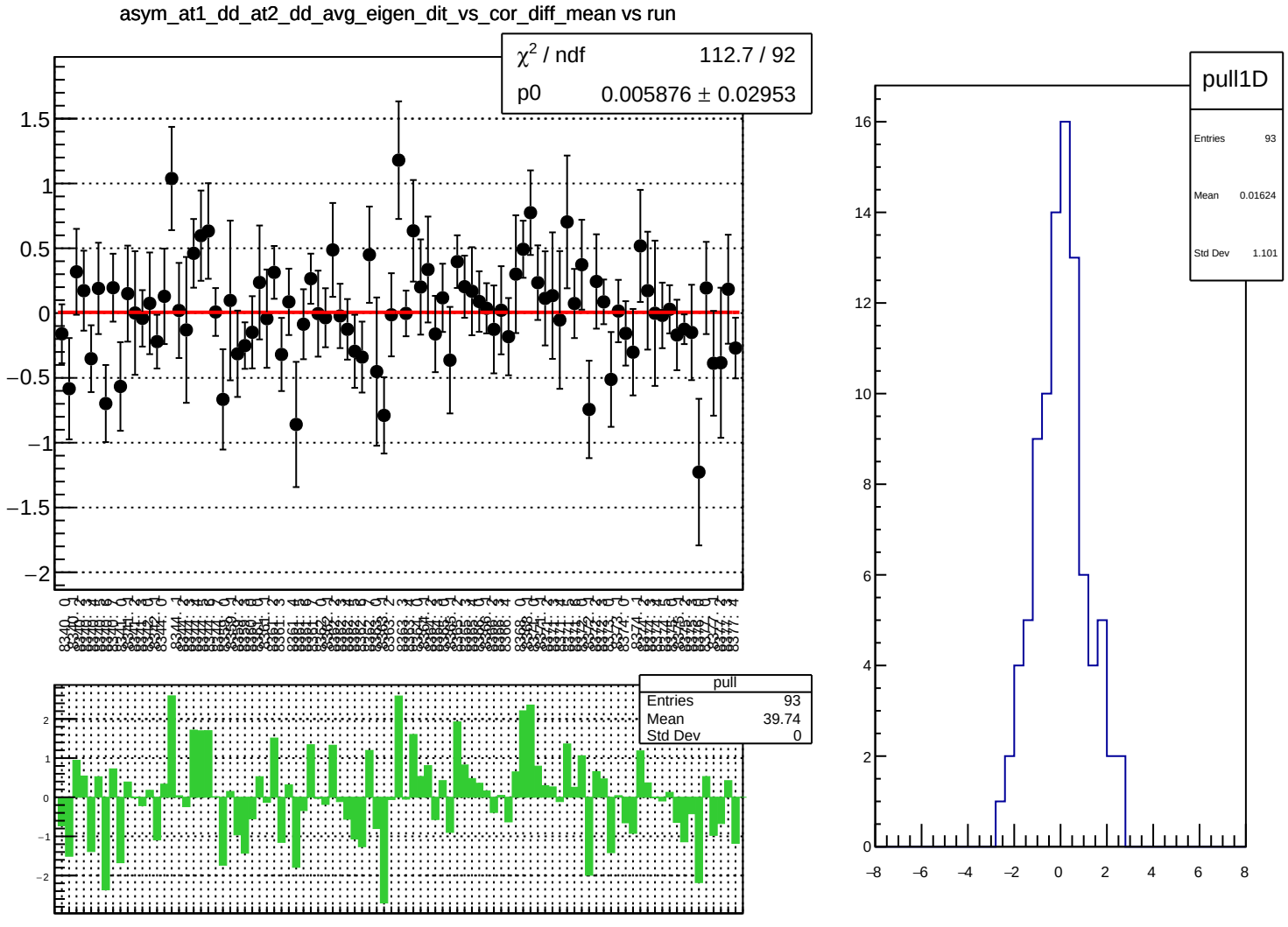

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005875 ± 0.02953
pull
Entries 93
Mean 39.78
Std Dev 0
pull1D
Entries 93
Mean 0.01626
Std Dev 1.101

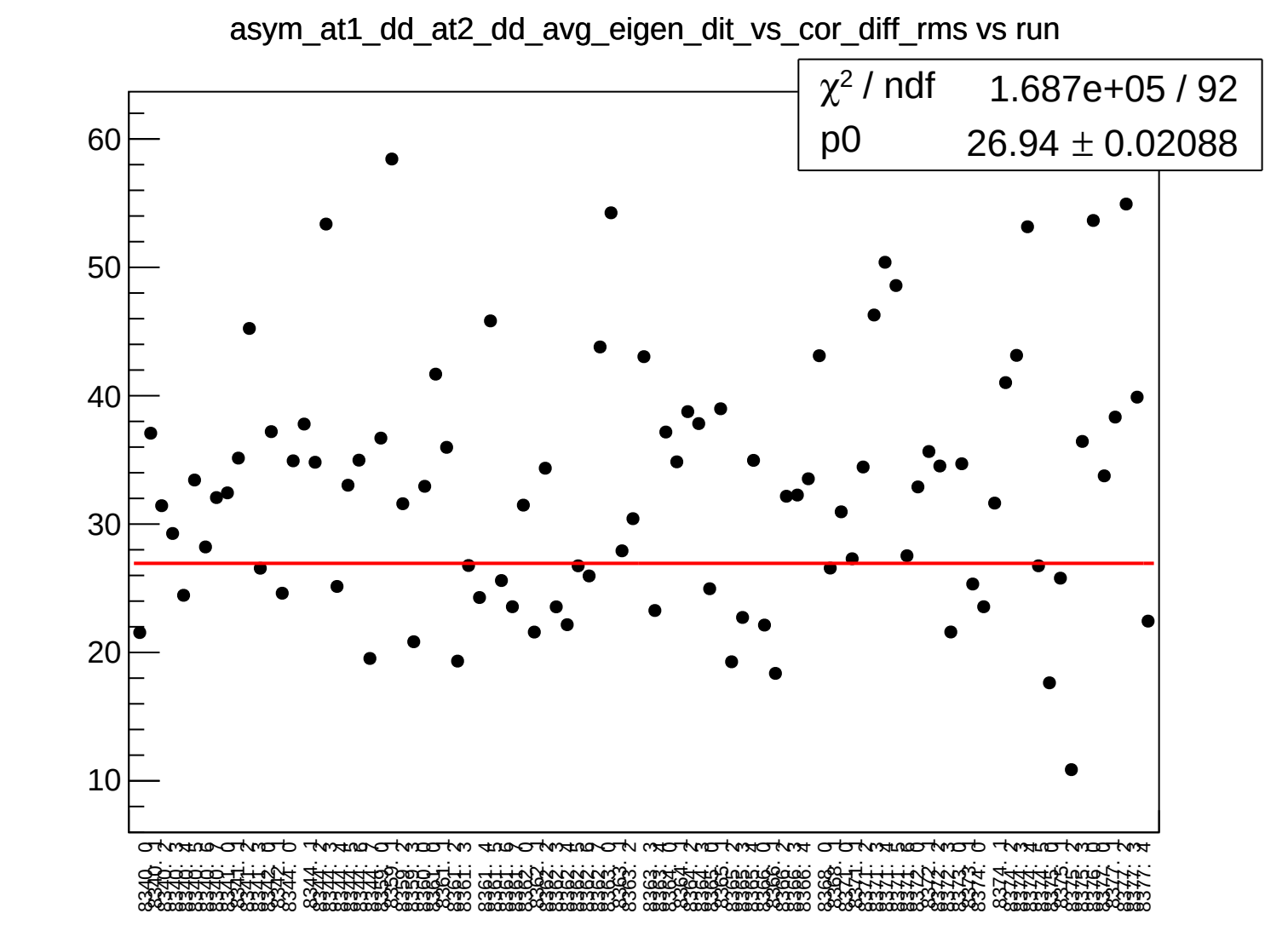

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

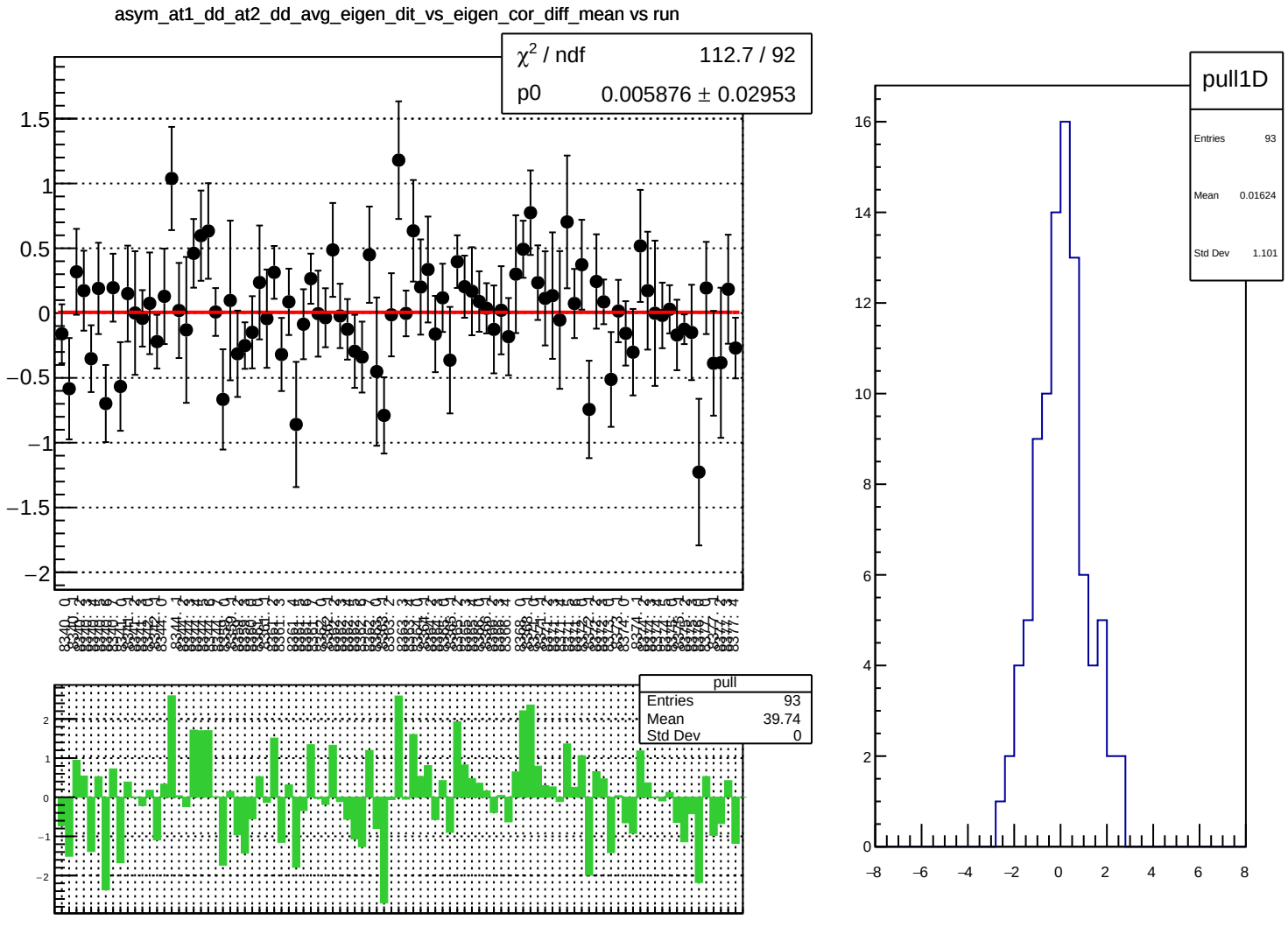

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.74 / 92
p0 −1.588e−05 ± 3.54e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 192.9
Std Dev 0
2
1
0
−1
−2
−3

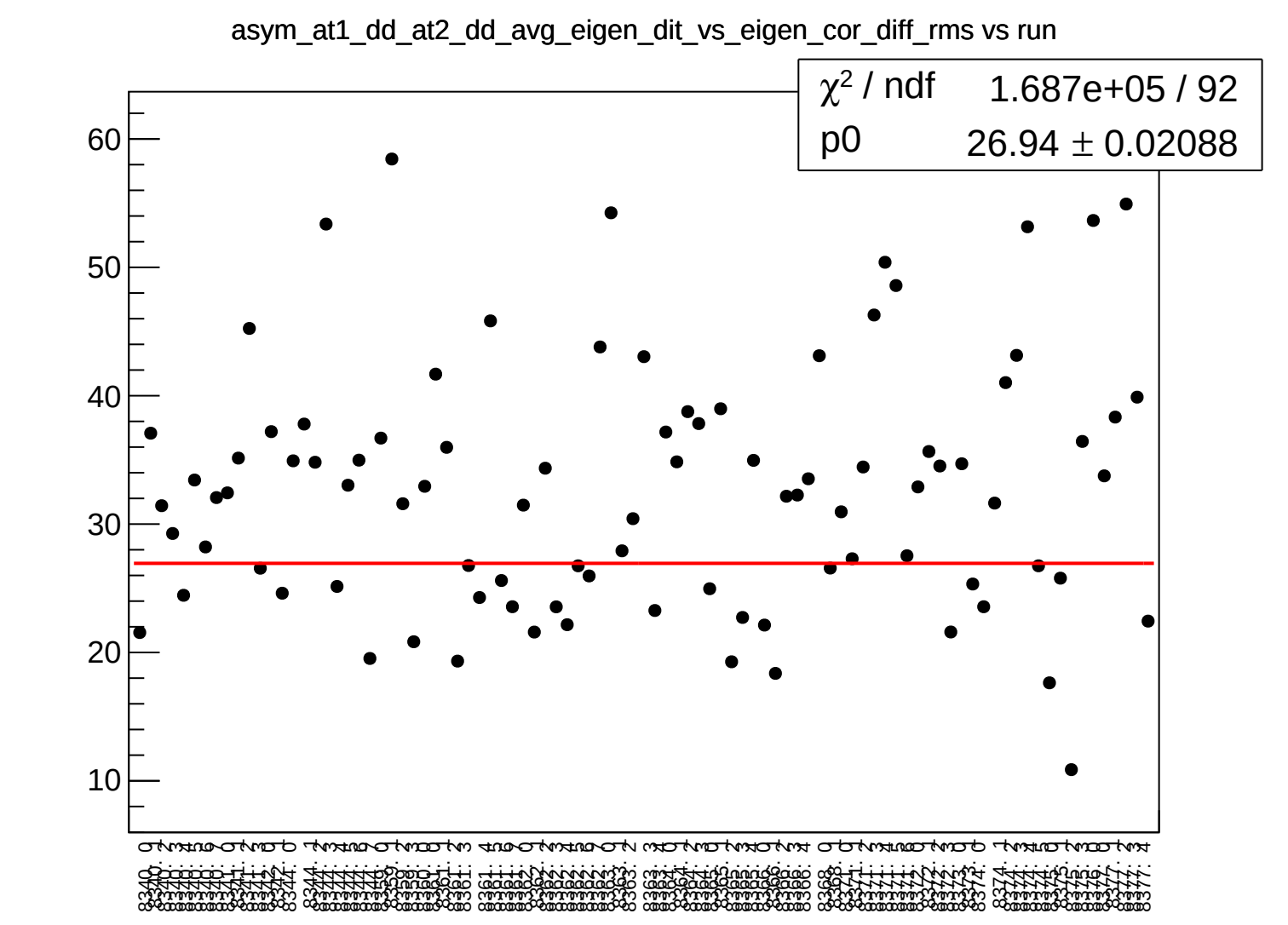

pull1D
Entries 93
Mean 0.01011
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

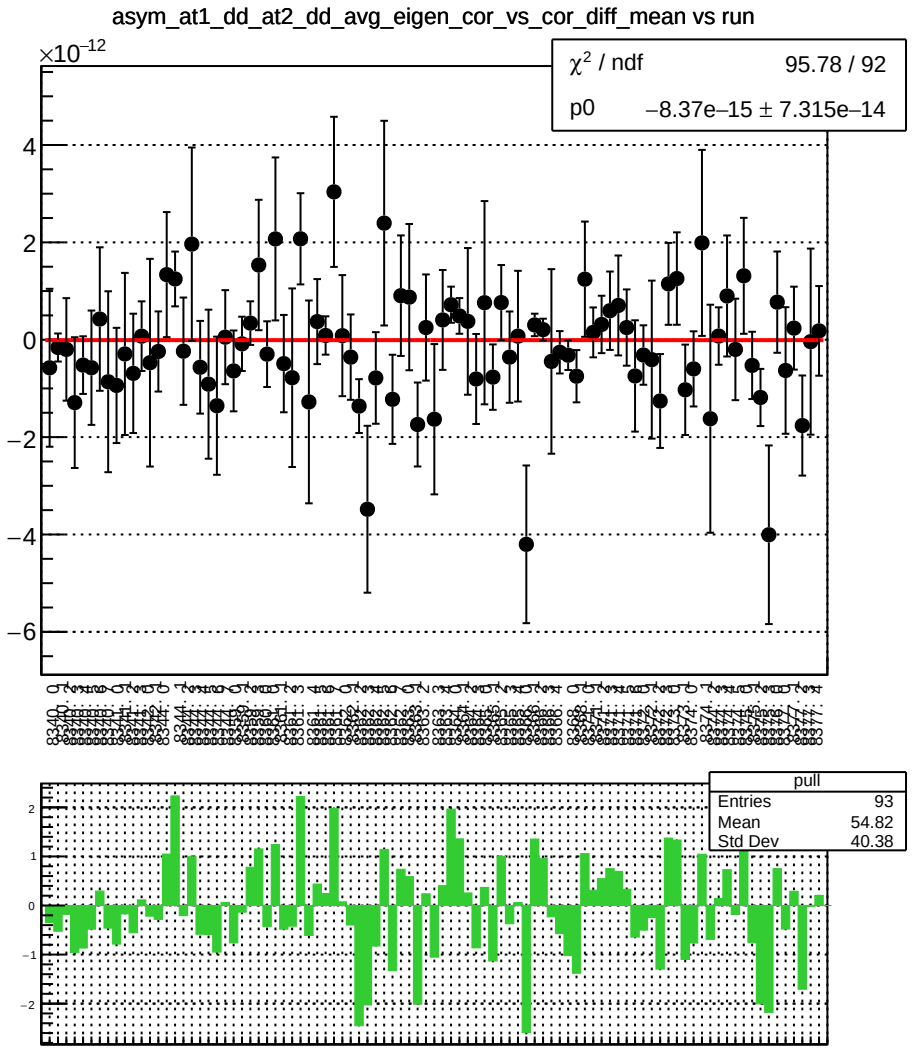

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.622e+05 / 92
p0 0.003236 ± 2.503e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

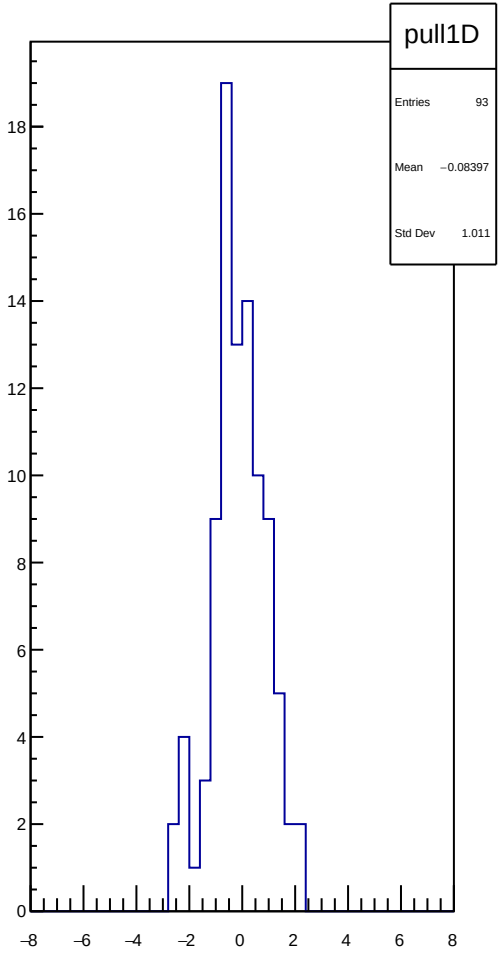

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005876 ± 0.02953
pull
Entries 93
Mean 39.74
Std Dev 0
pull1D
Entries 93
Mean 0.01624
Std Dev 1.101

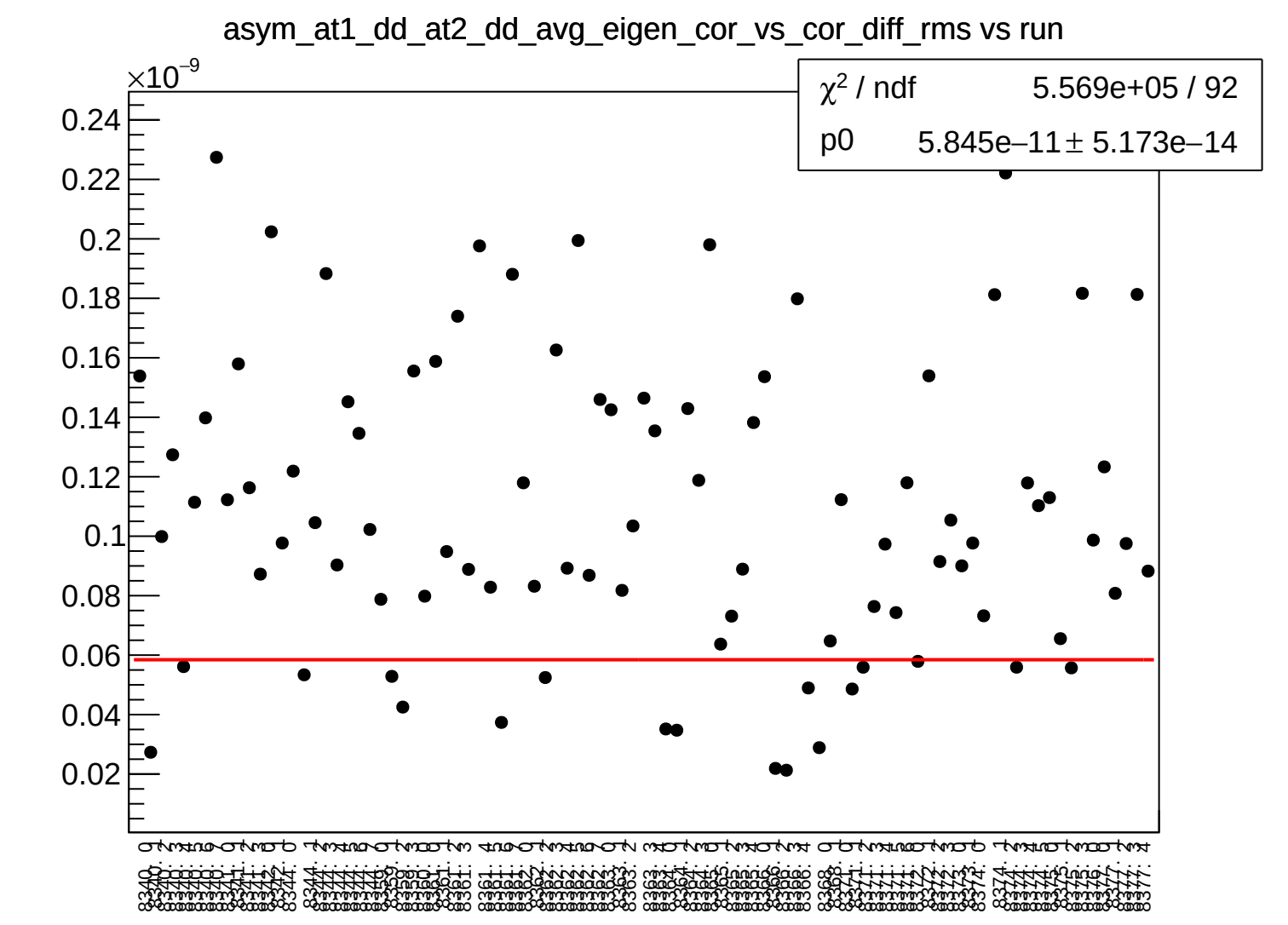

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

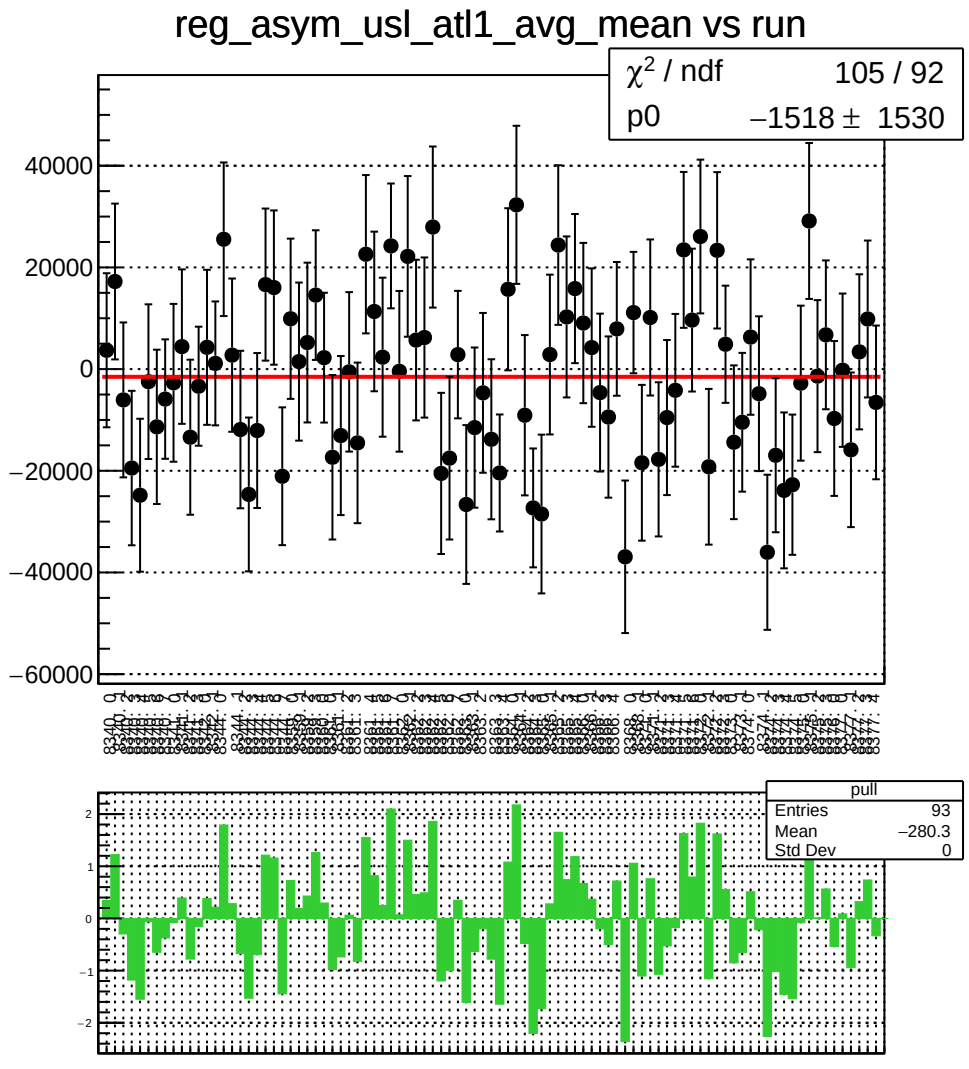

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.7 / 92
p0 0.005876 ± 0.02953
pull
Entries 93
Mean 39.74
Std Dev 0
pull1D
Entries 93
Mean 0.01624
Std Dev 1.101

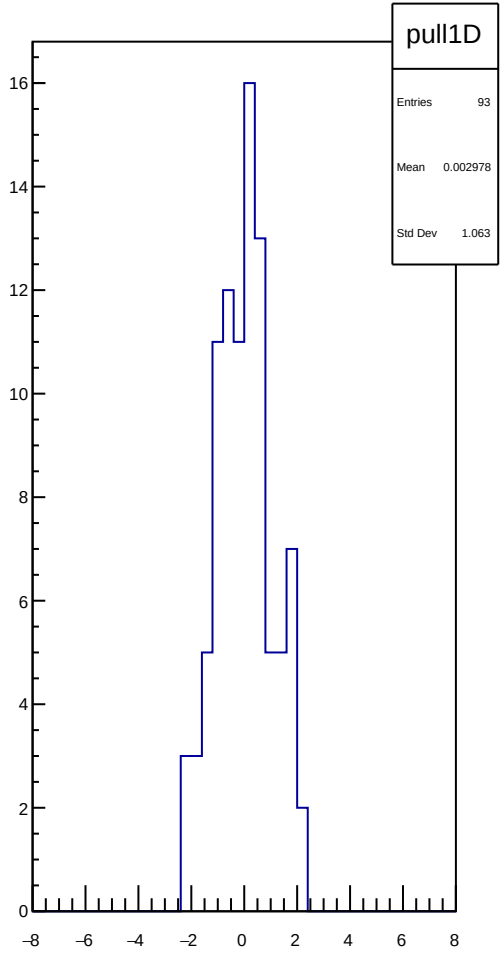

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 26.94 ± 0.02088
60
50
40
30
20
10

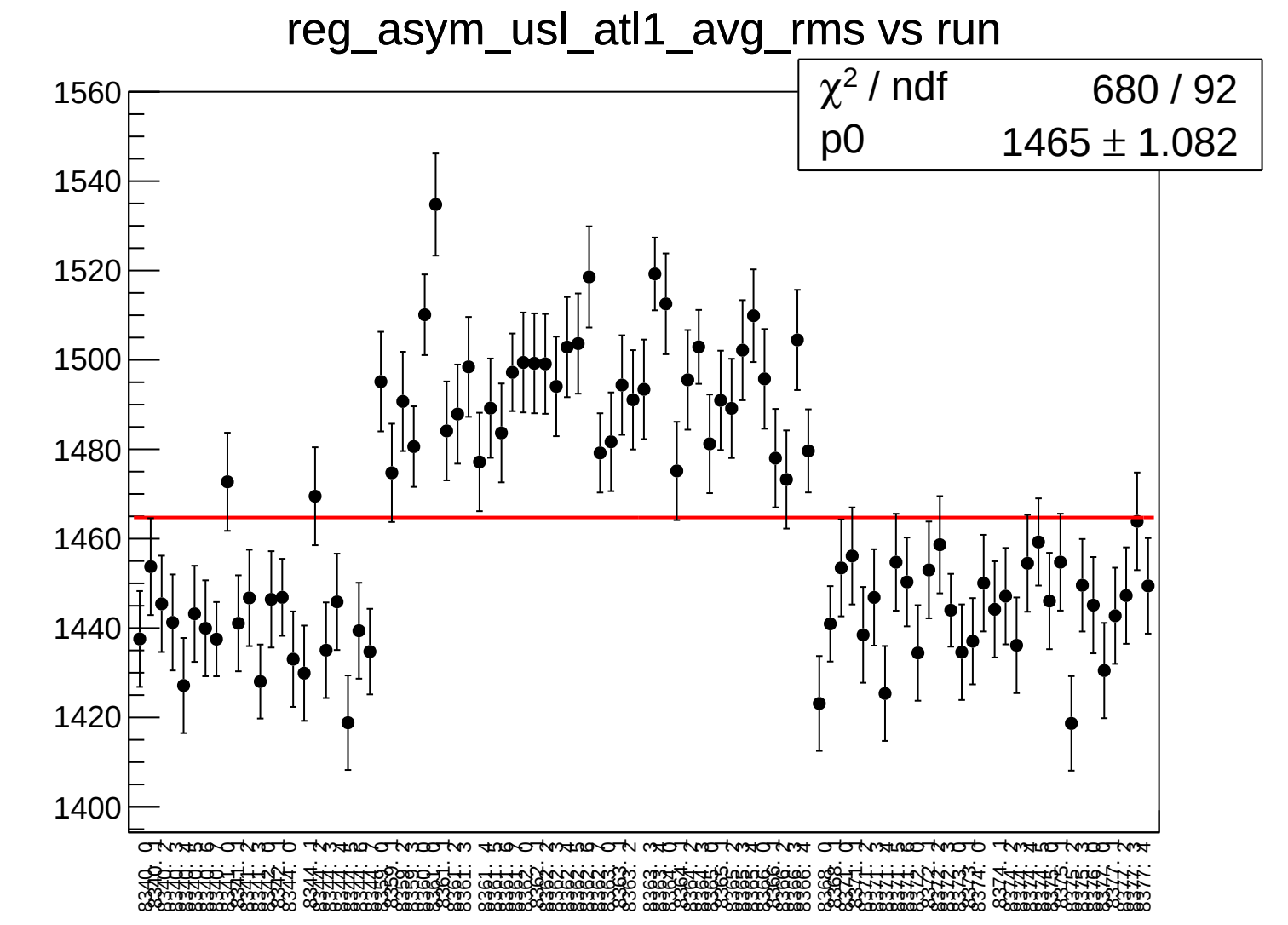

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.78 / 92
p0 −8.37e−15 ± 7.315e−14
pull
Entries 93
Mean 54.82
Std Dev 40.38

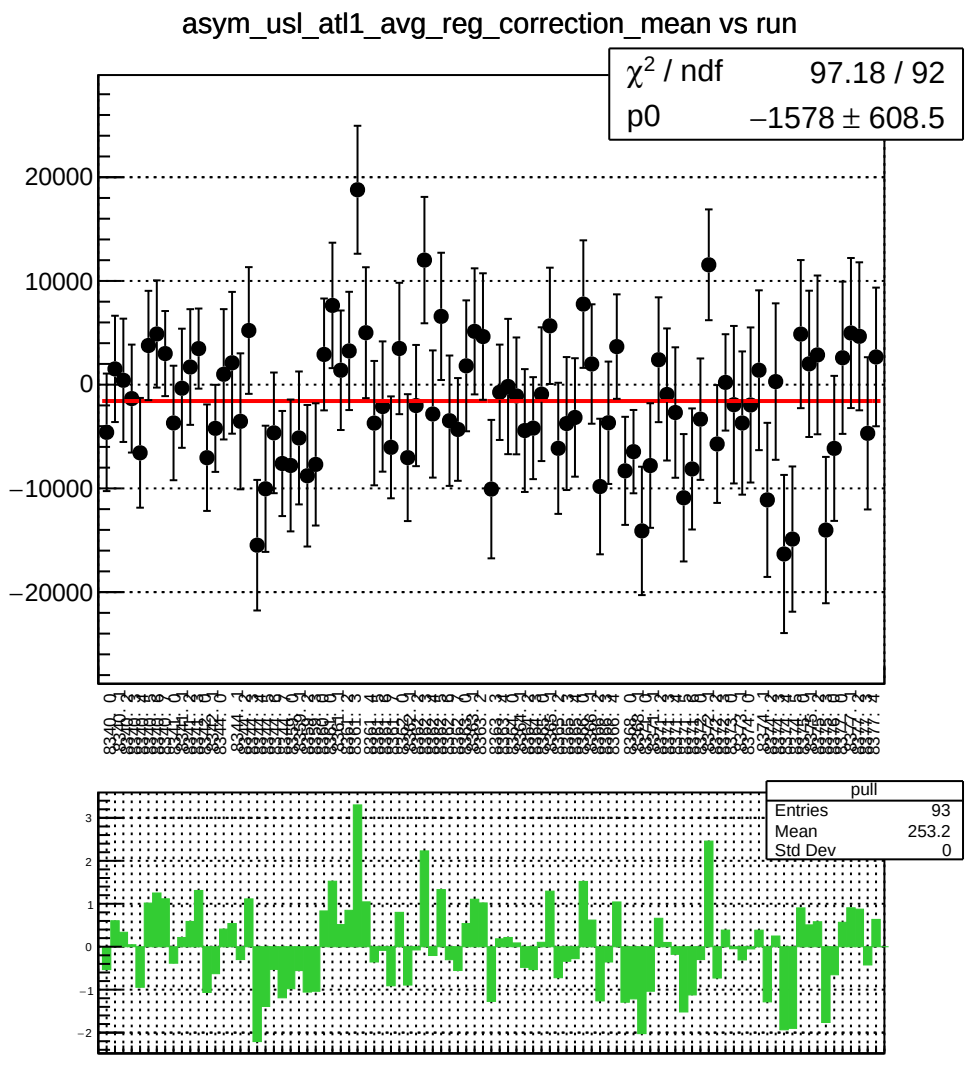

pull1D
Entries 93
Mean −0.08397
Std Dev 1.011

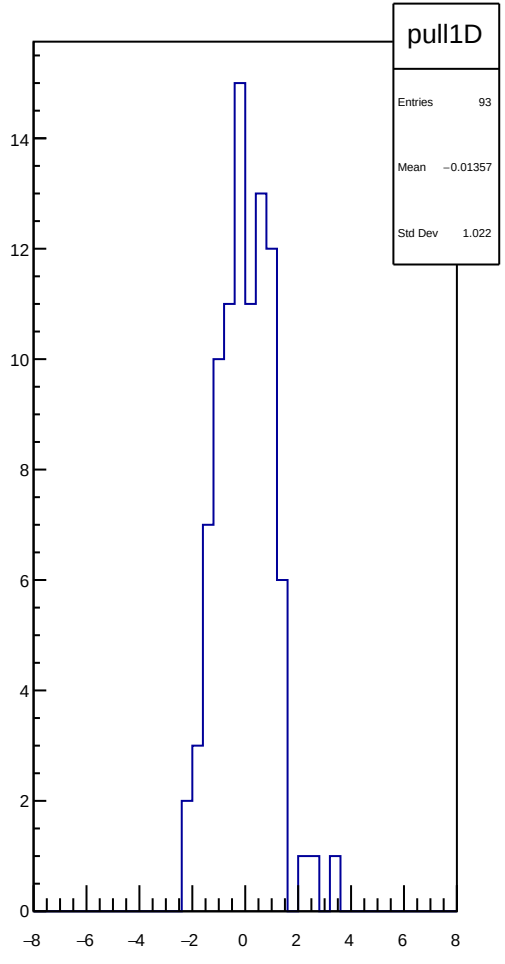

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.569e+05 / 92
p0 5.845e−11 ± 5.173e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

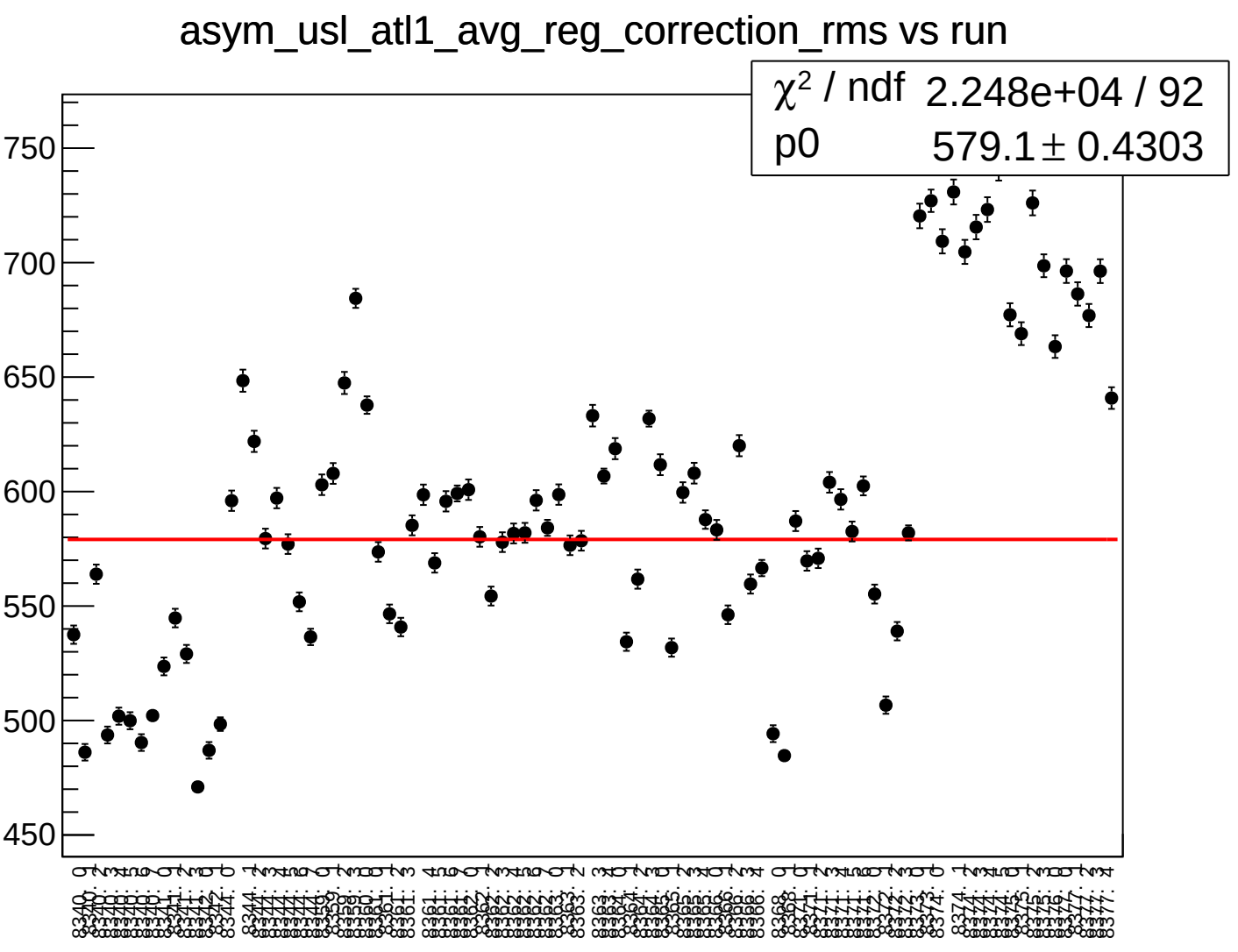

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 92
p0 −1518 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −280.3
Std Dev 0
2
1
0
−1
−2

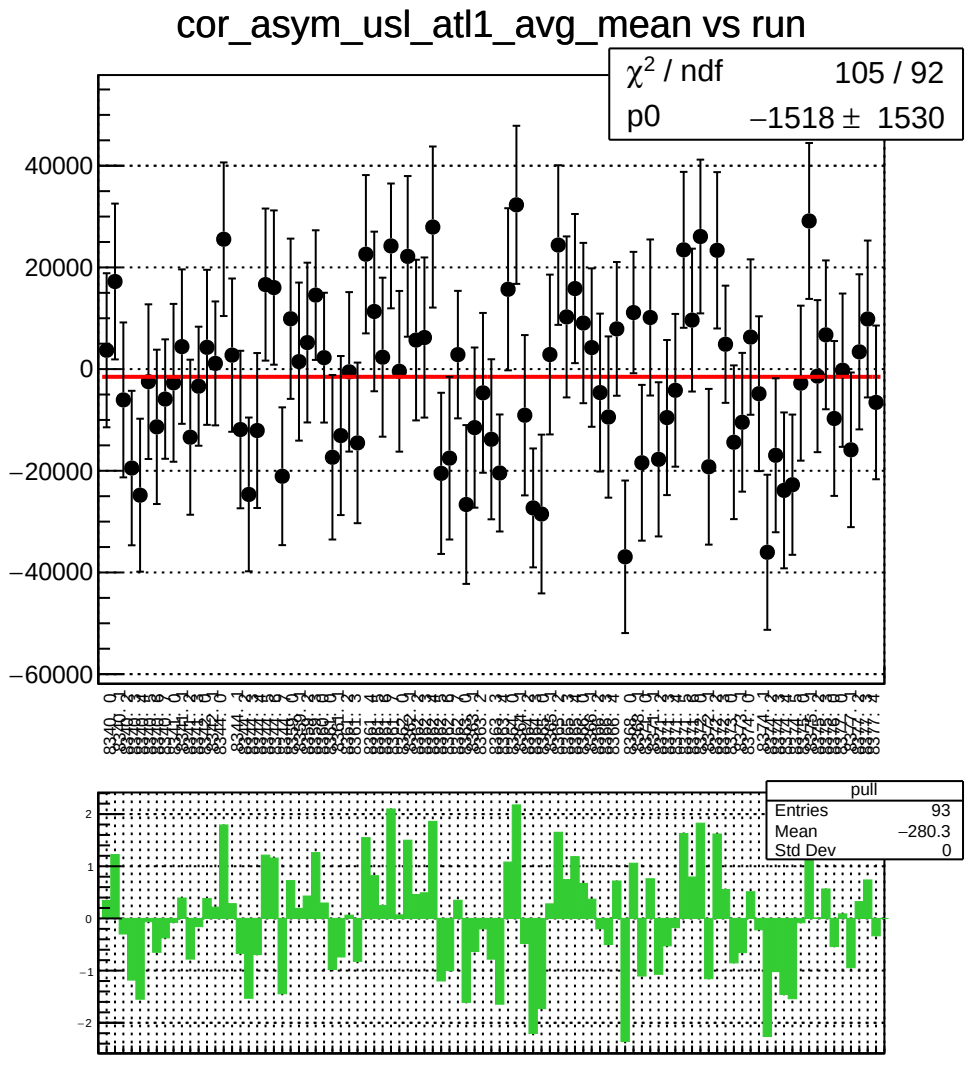

pull1D
Entries 93
Mean 0.002978
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

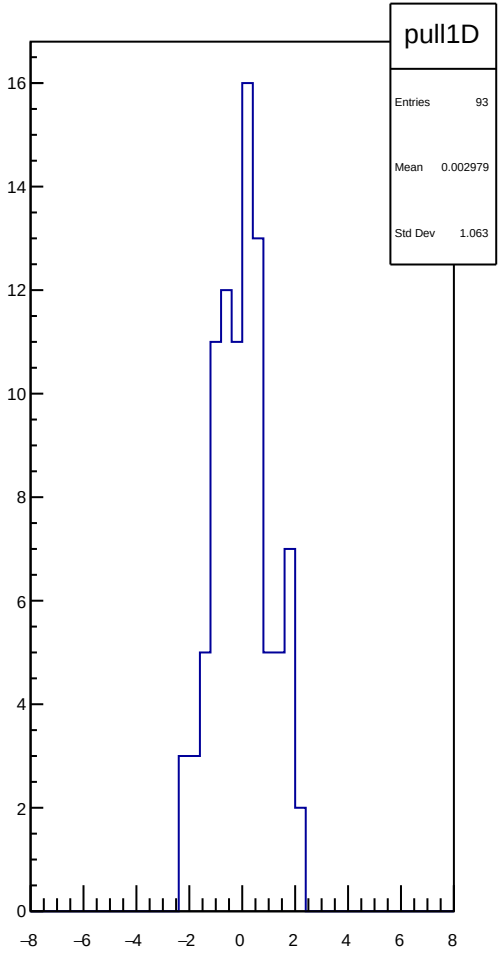

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 680 / 92
p0 1465 ± 1.082
1560
1540
1520
1500
1480
1460
1440
1420
1400

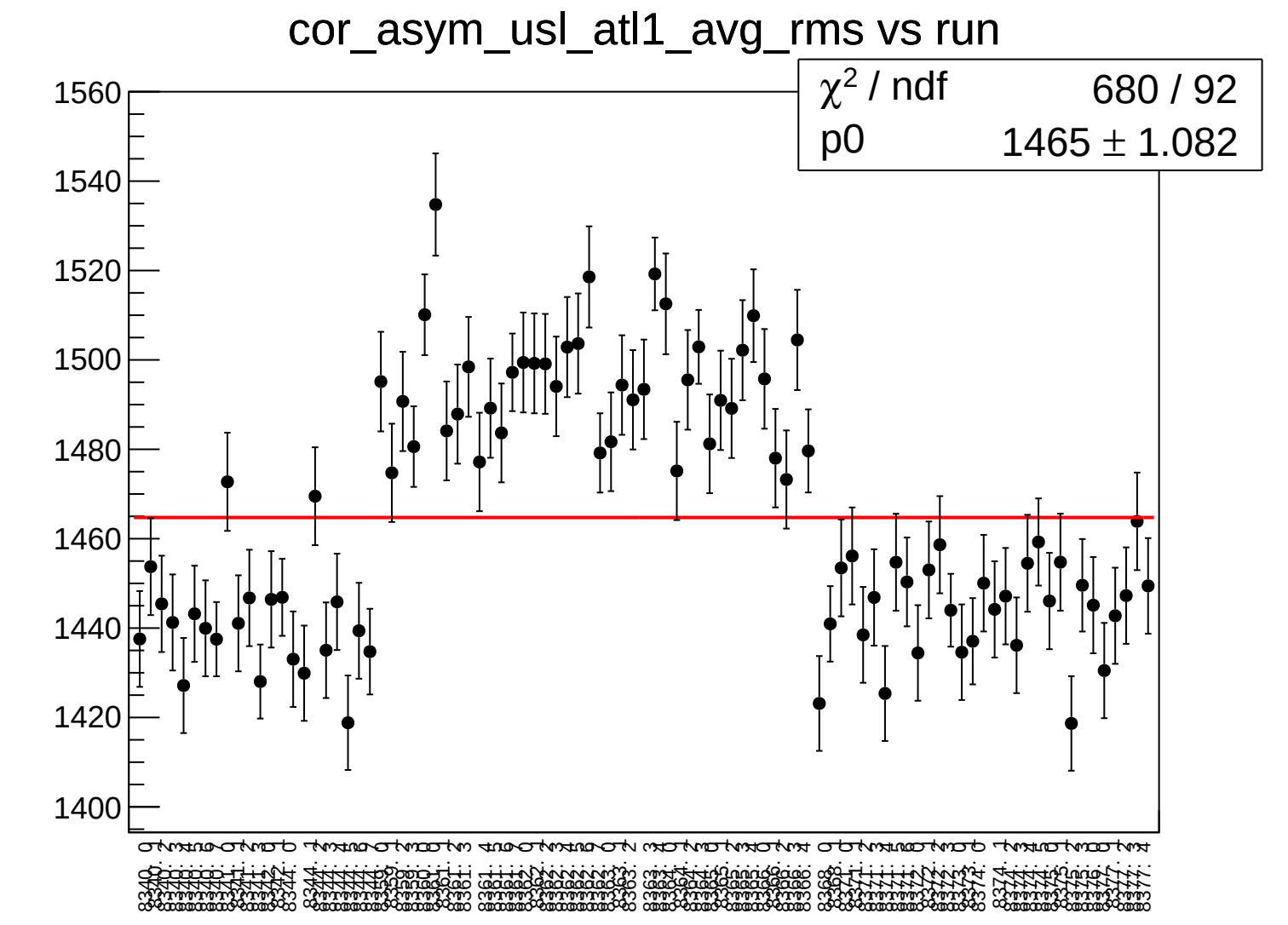

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 97.18 / 92
p0 −1578 ± 608.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 253.2
Std Dev 0
3
2
1
0
−1
−2

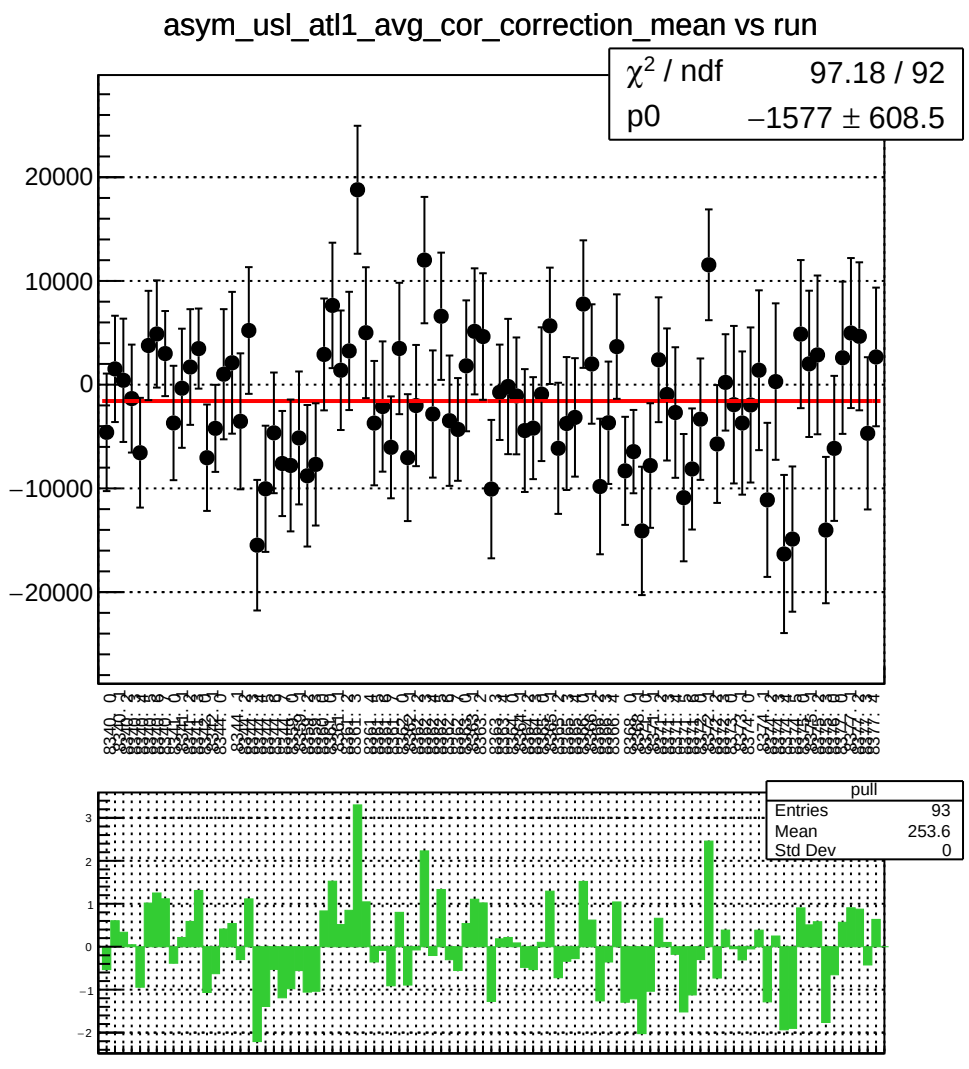

pull1D
Entries 93
Mean −0.01357
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

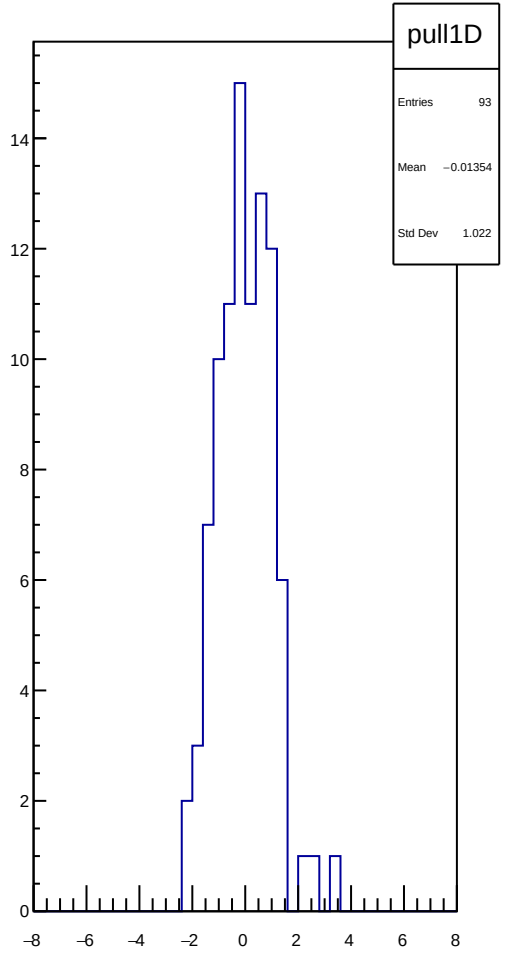

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 2.248e+04 / 92
p0 579.1 ± 0.4303
750
700
650
600
550
500
450

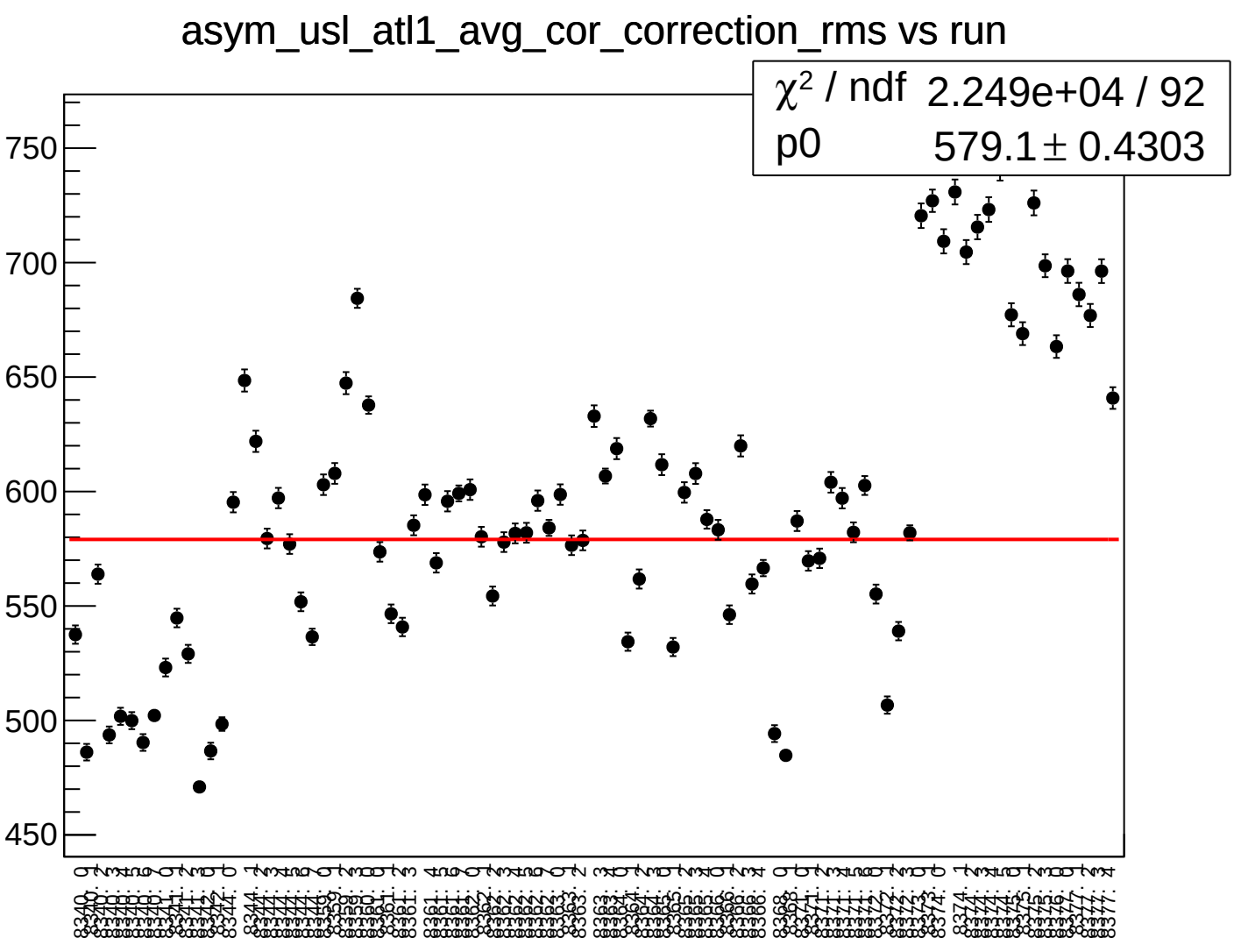

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 92
p0 −1518 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −280.3
Std Dev 0
2
1
0
−1
−2

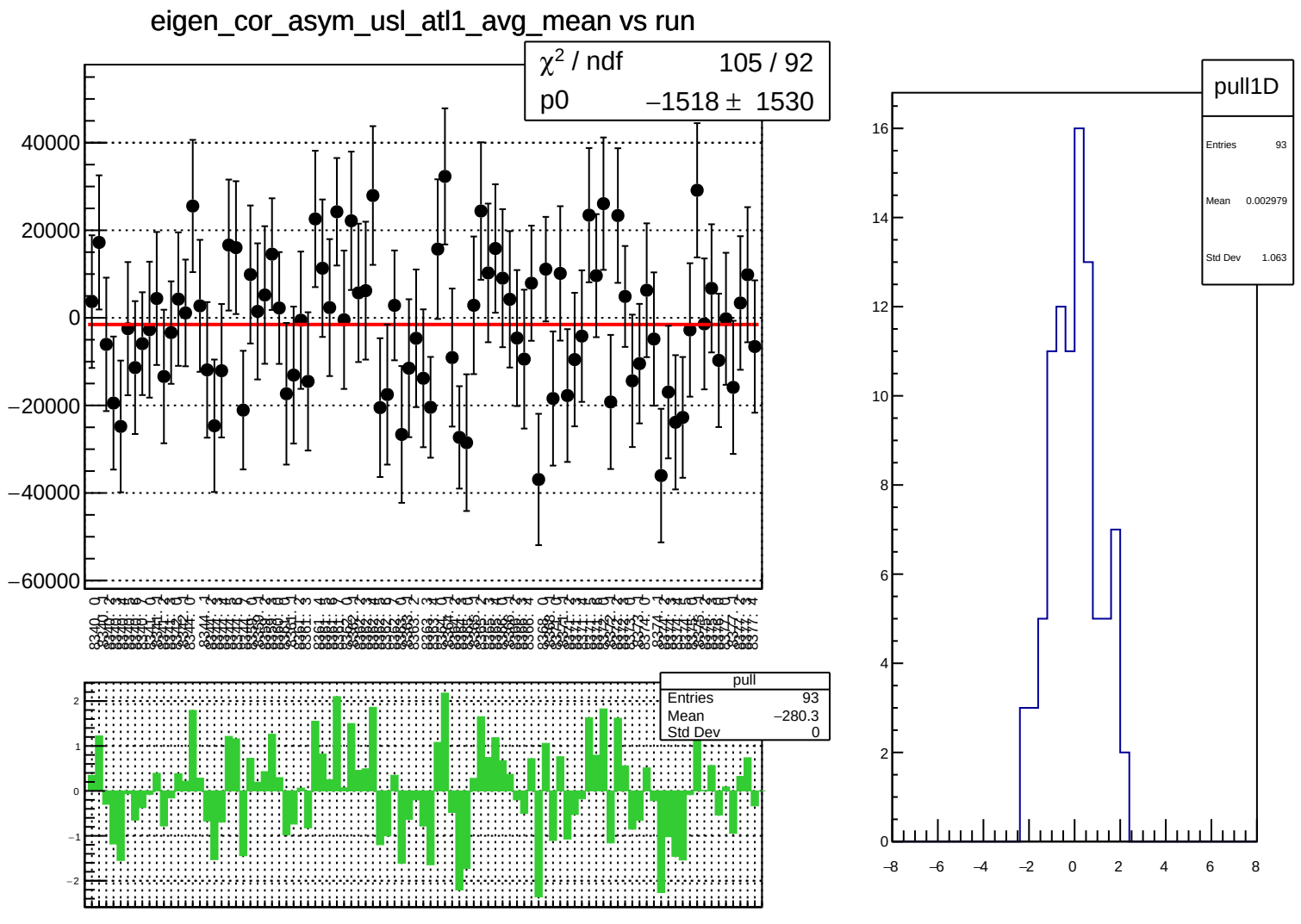

pull1D
Entries 93
Mean 0.002979
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

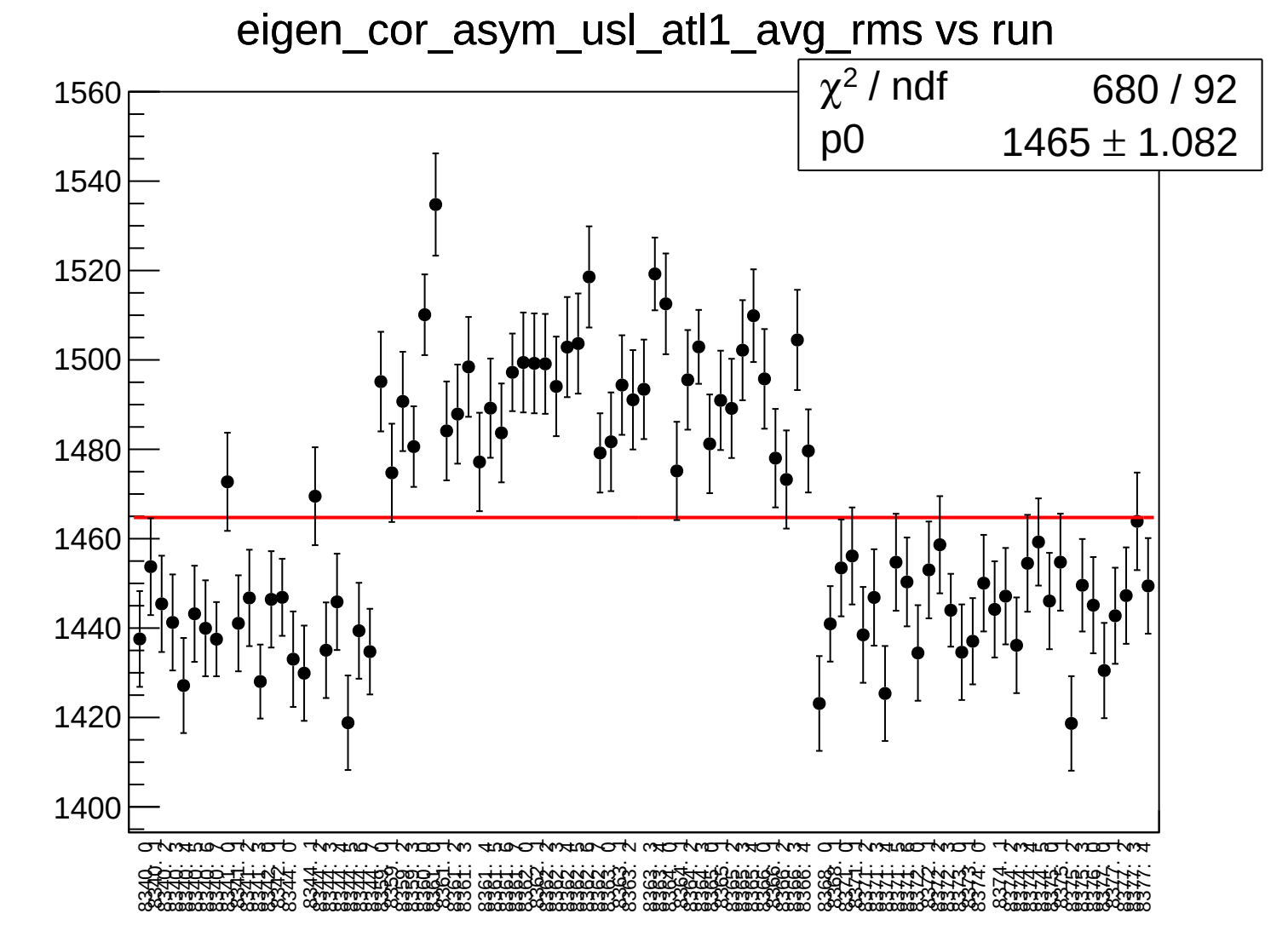

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 680 / 92
p0 1465 ± 1.082
1560
1540
1520
1500
1480
1460
1440
1420
1400

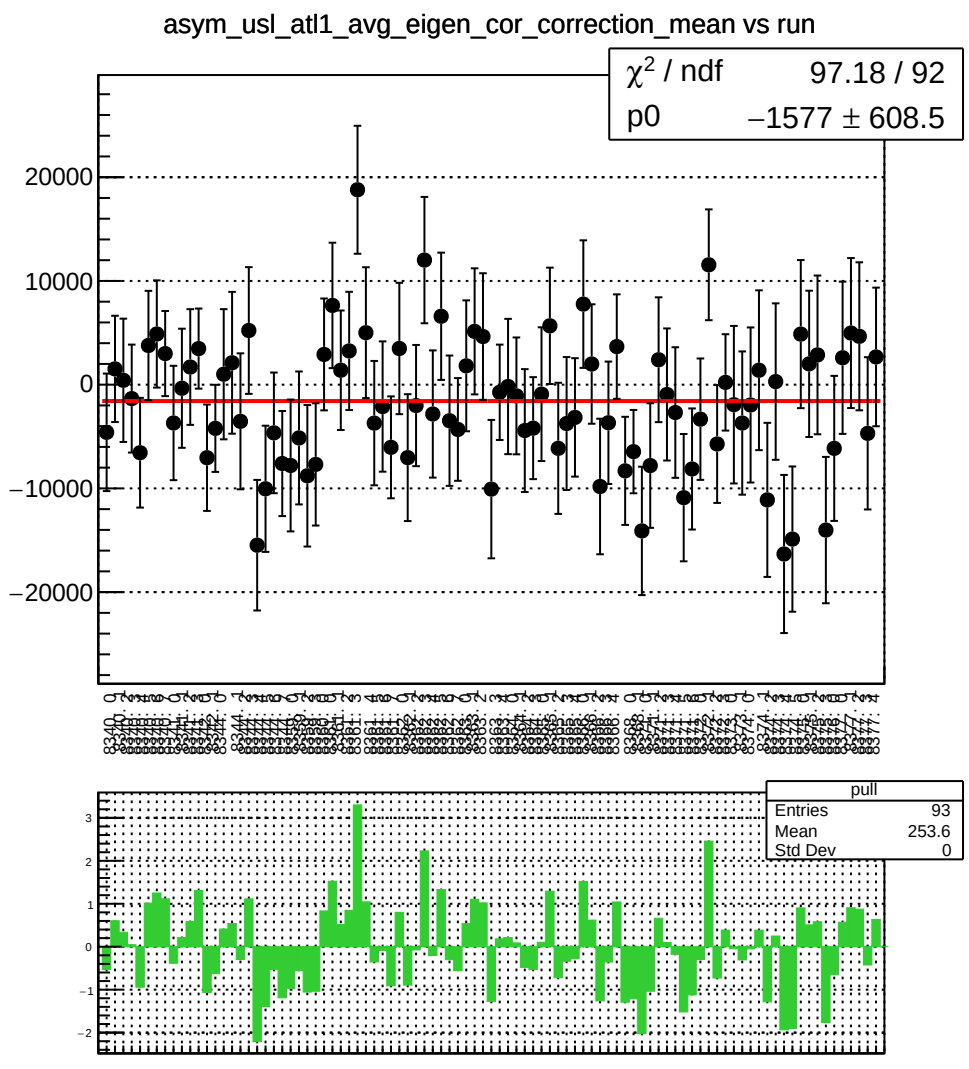

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 97.18 / 92
p0 −1577 ± 608.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 253.6
Std Dev 0
3
2
1
0
−1
−2

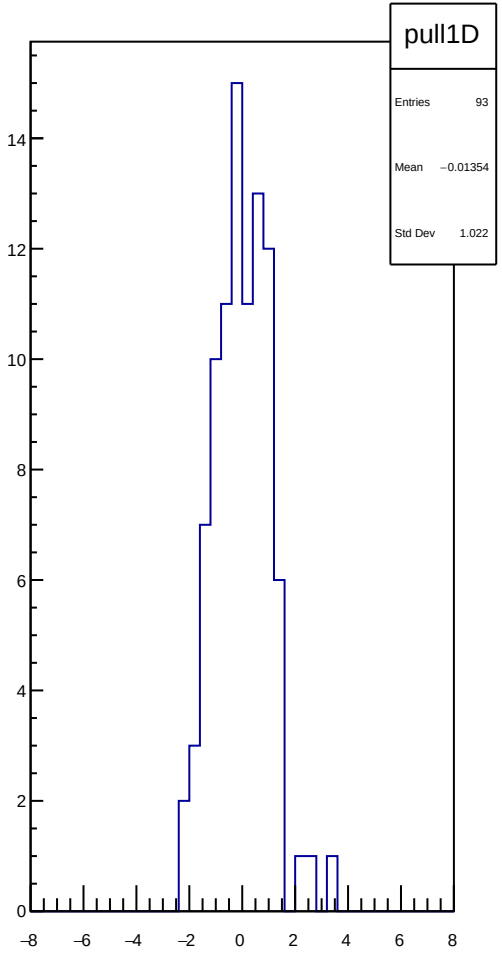

pull1D
Entries 93
Mean −0.01354
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

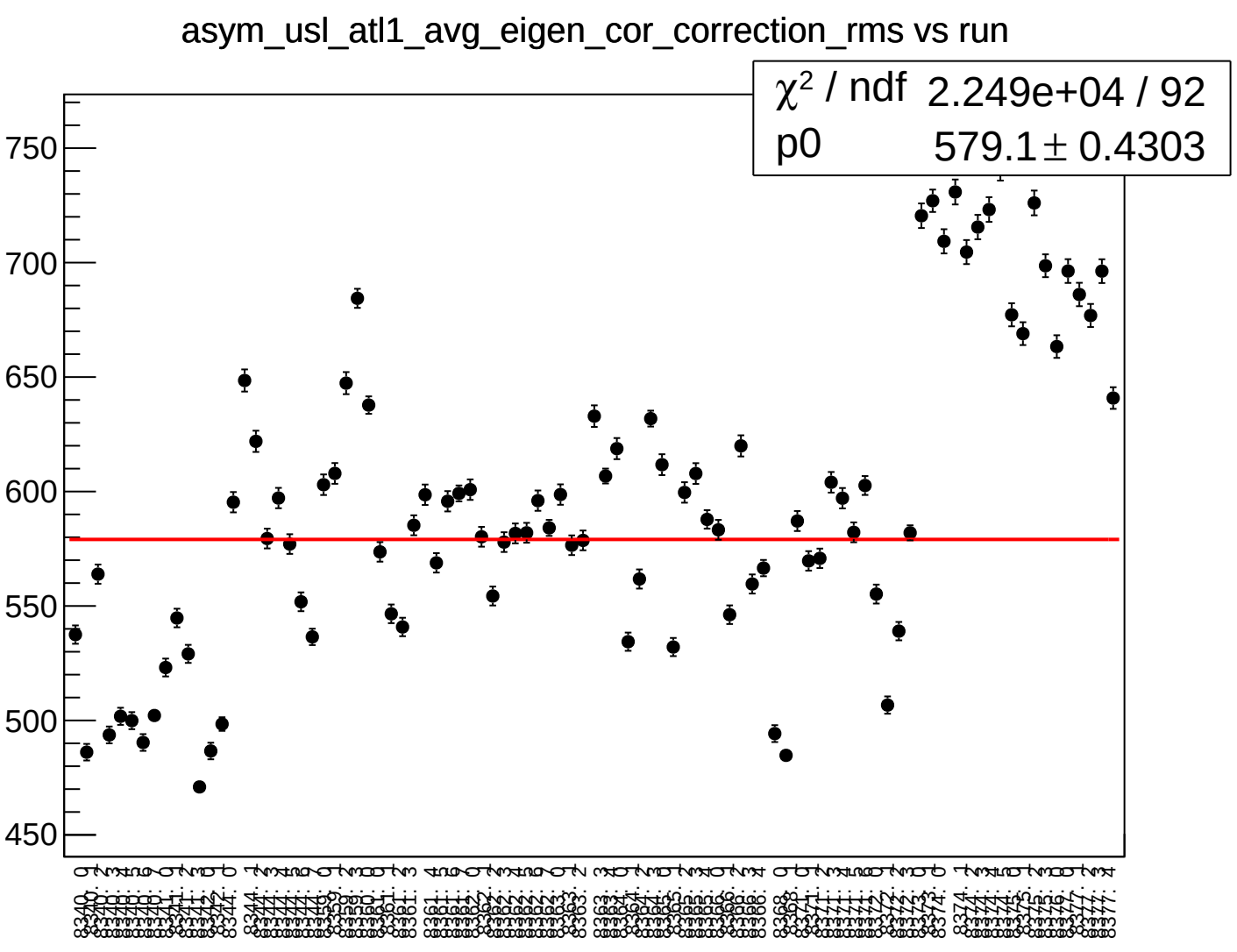

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 2.249e+04 / 92
p0 579.1 ± 0.4303
750
700
650
600
550
500
450

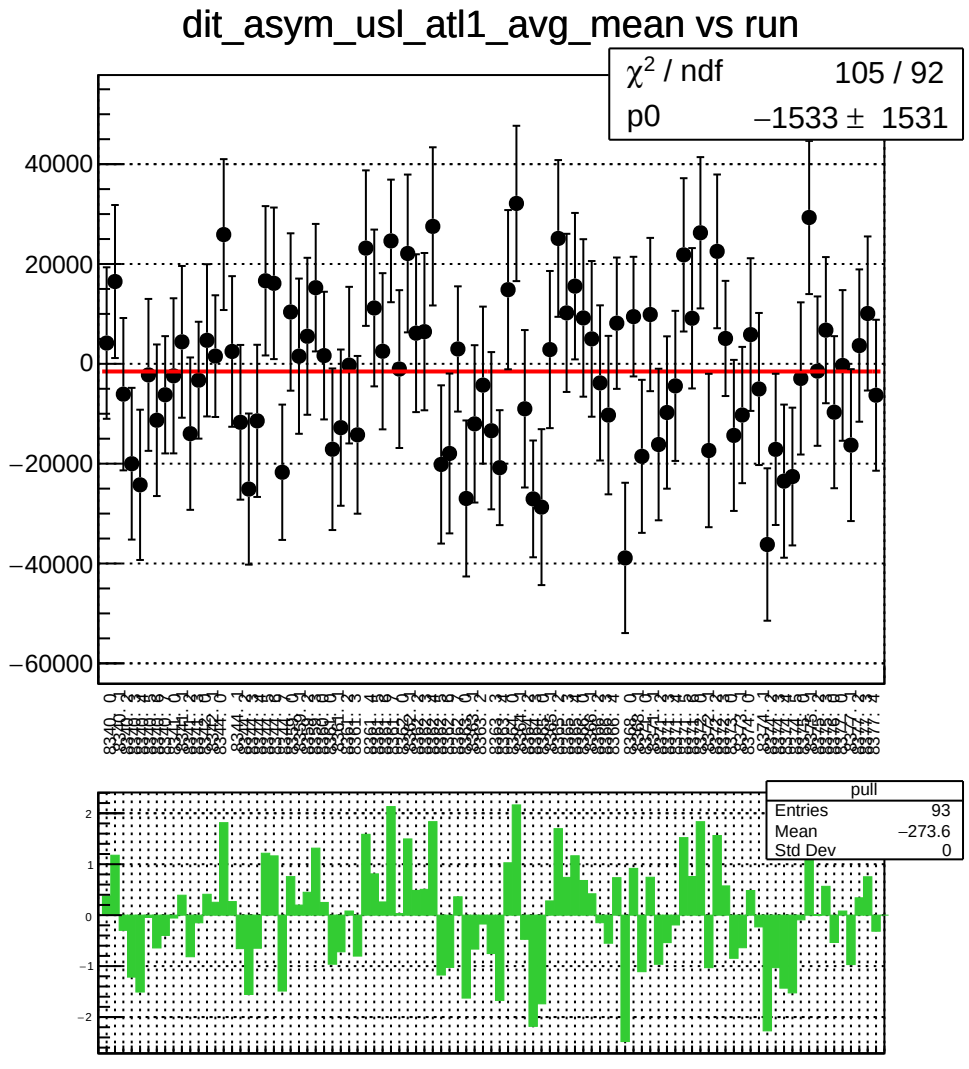

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 92
p0 −1518 ± 1530
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −280.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002979
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

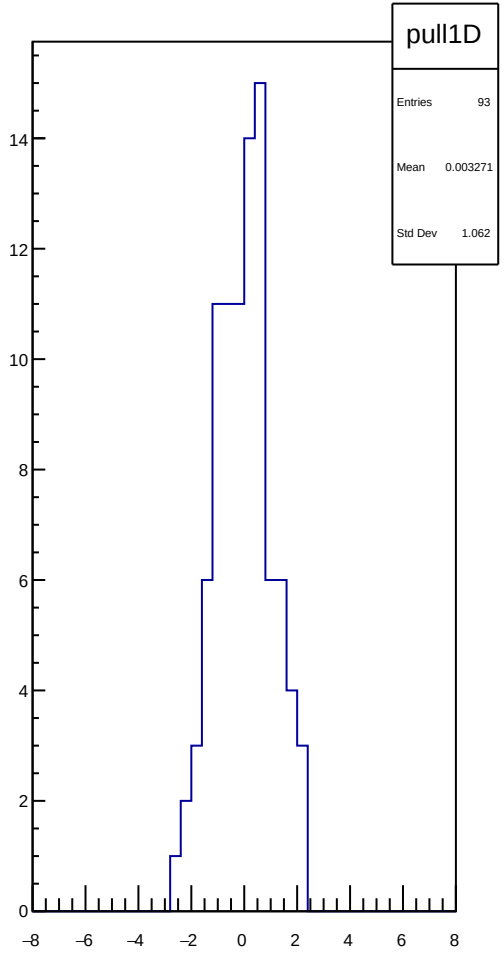

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 680 / 92
p0 1465 ± 1.082
1560
1540
1520
1500
1480
1460
1440
1420
1400

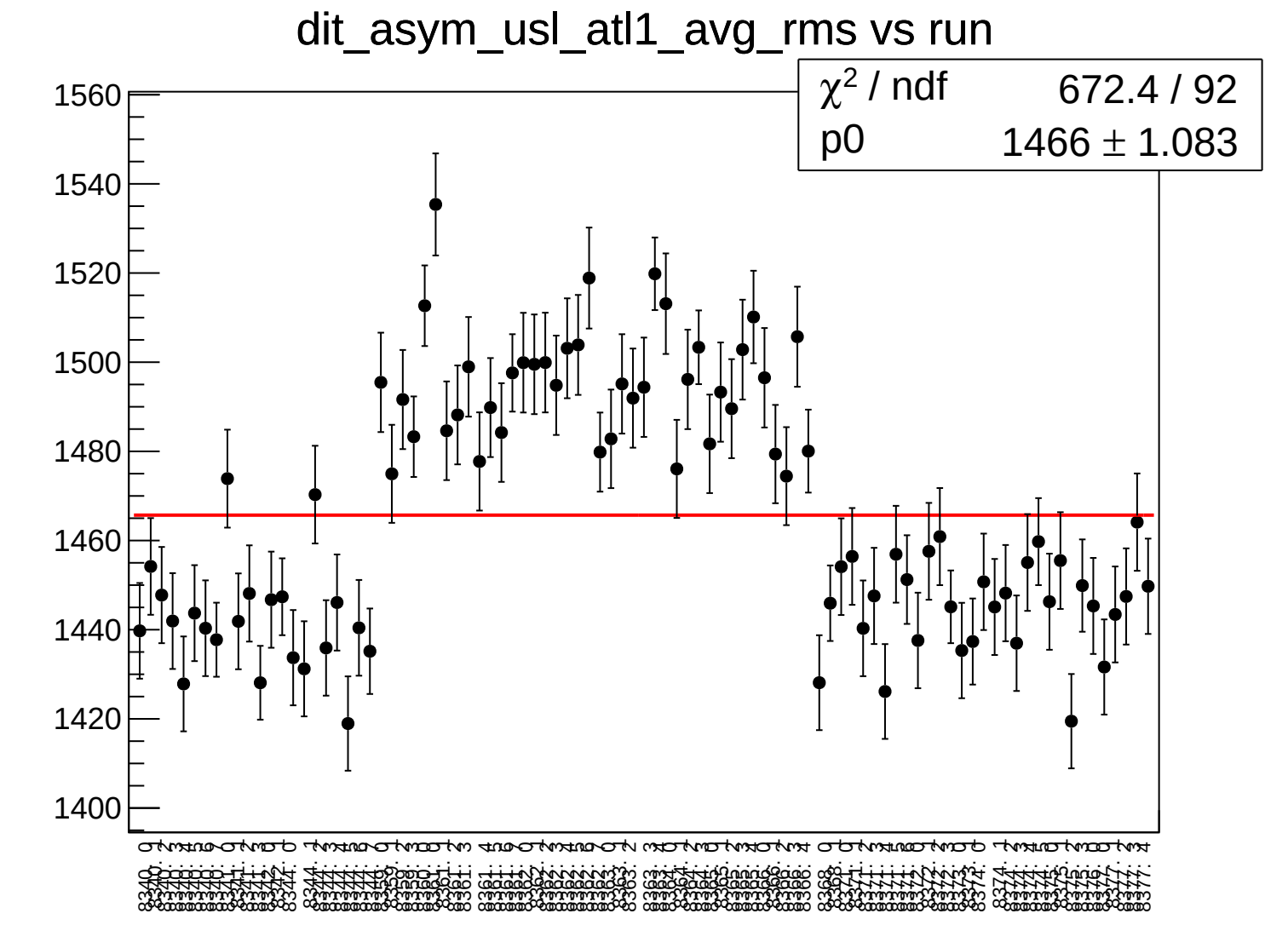

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 97.18 / 92
p0 −1577 ± 608.5
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 253.6
Std Dev 0
3
2
1
0
−1
−2

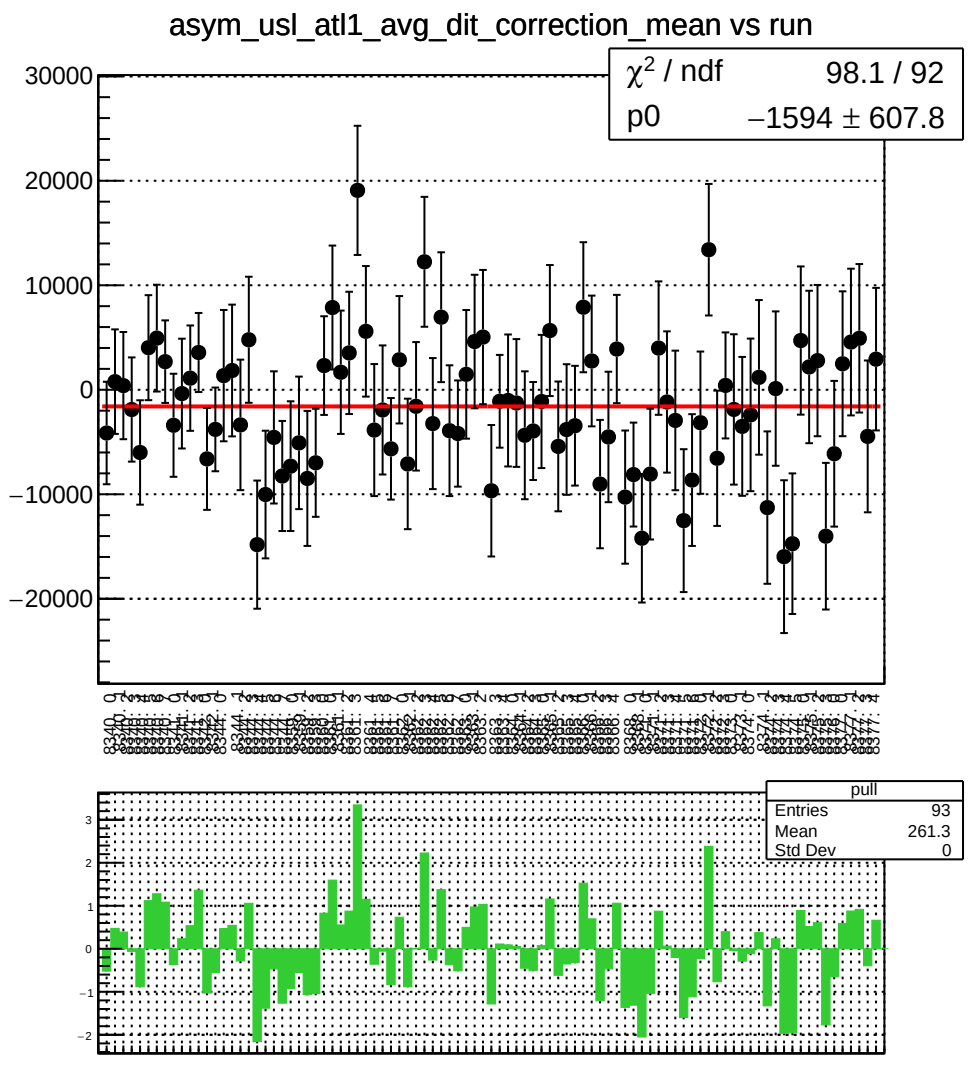

pull1D
Entries 93
Mean −0.01354
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

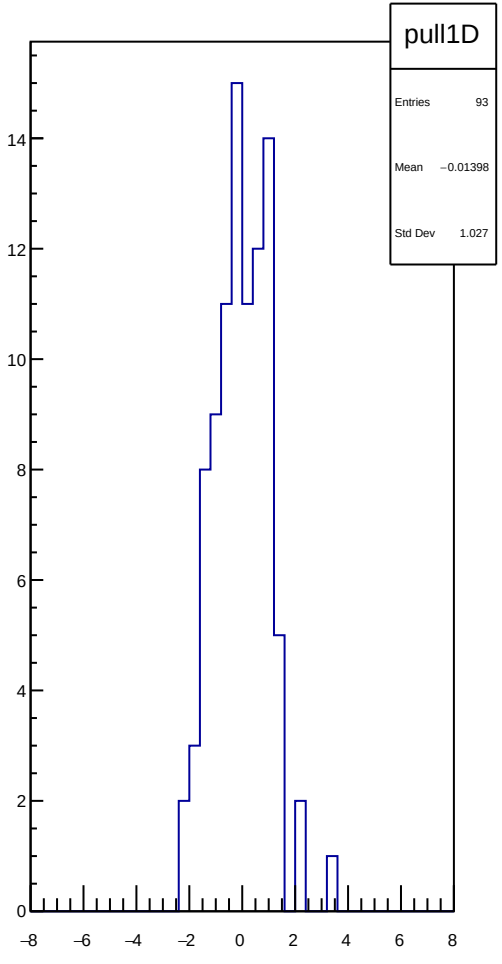

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.249e+04 / 92
p0 579.1 ± 0.4303
750
700
650
600
550
500
450

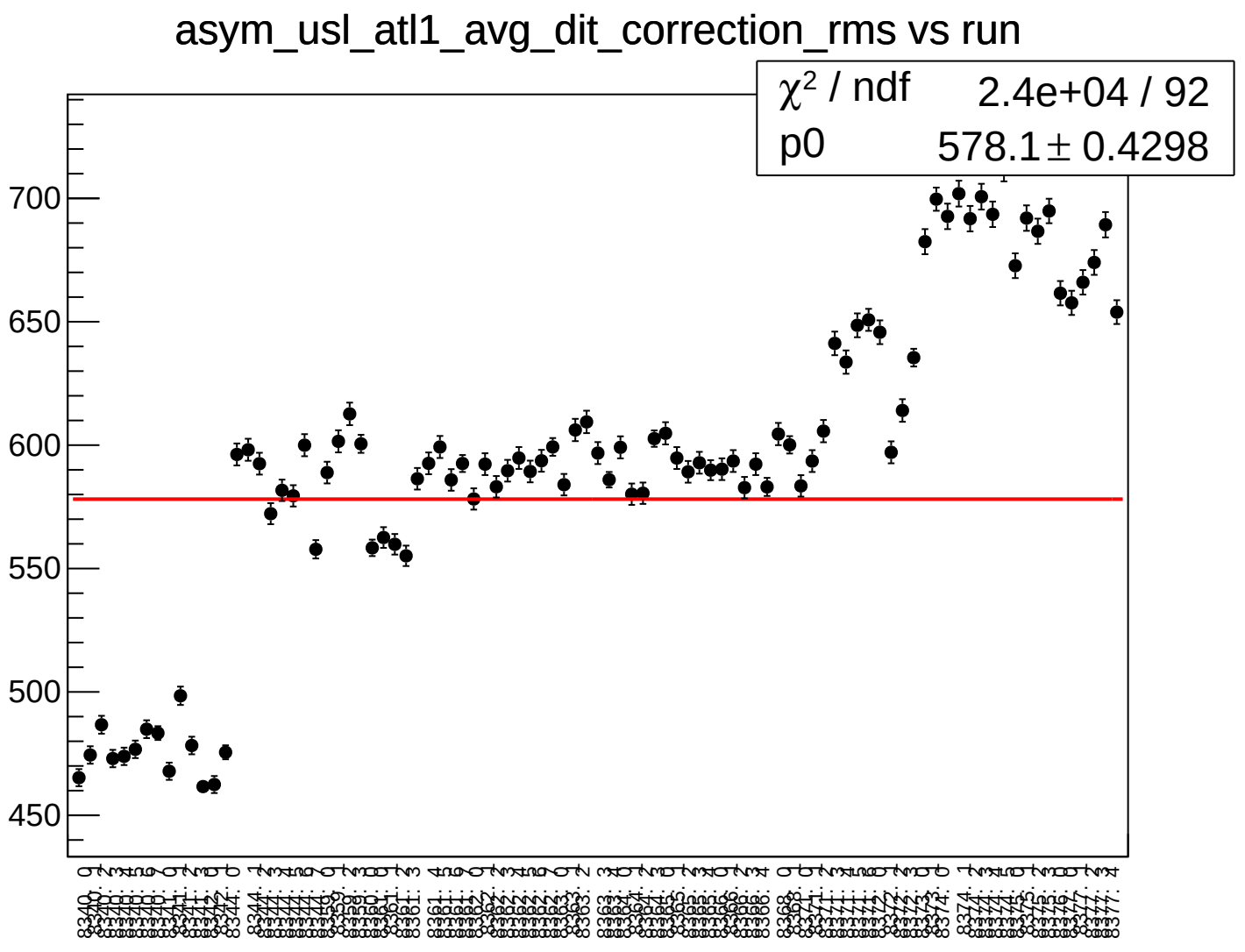

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 92
p0 −1533 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −273.6
Std Dev 0
2
1
0
−1
−2

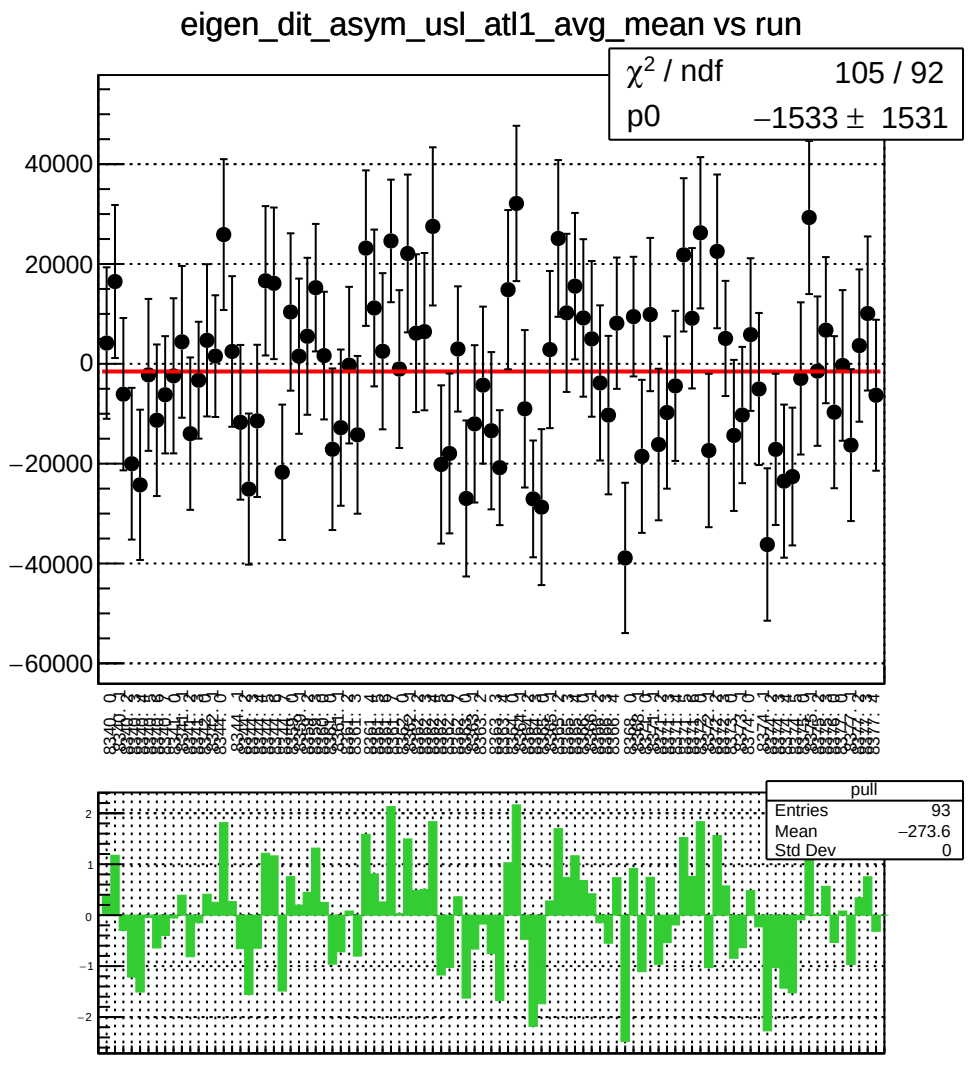

pull1D
Entries 93
Mean 0.003271
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

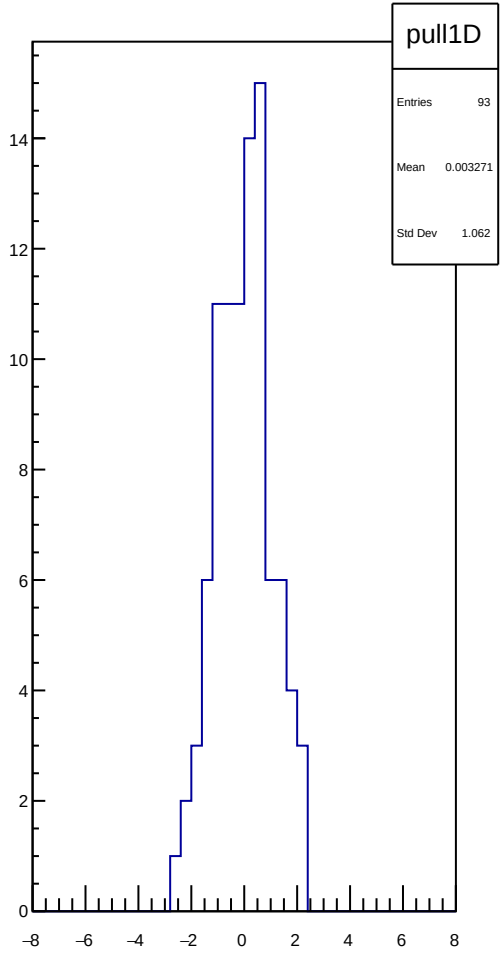

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 672.4 / 92
p0 1466 ± 1.083
1560
1540
1520
1500
1480
1460
1440
1420
1400

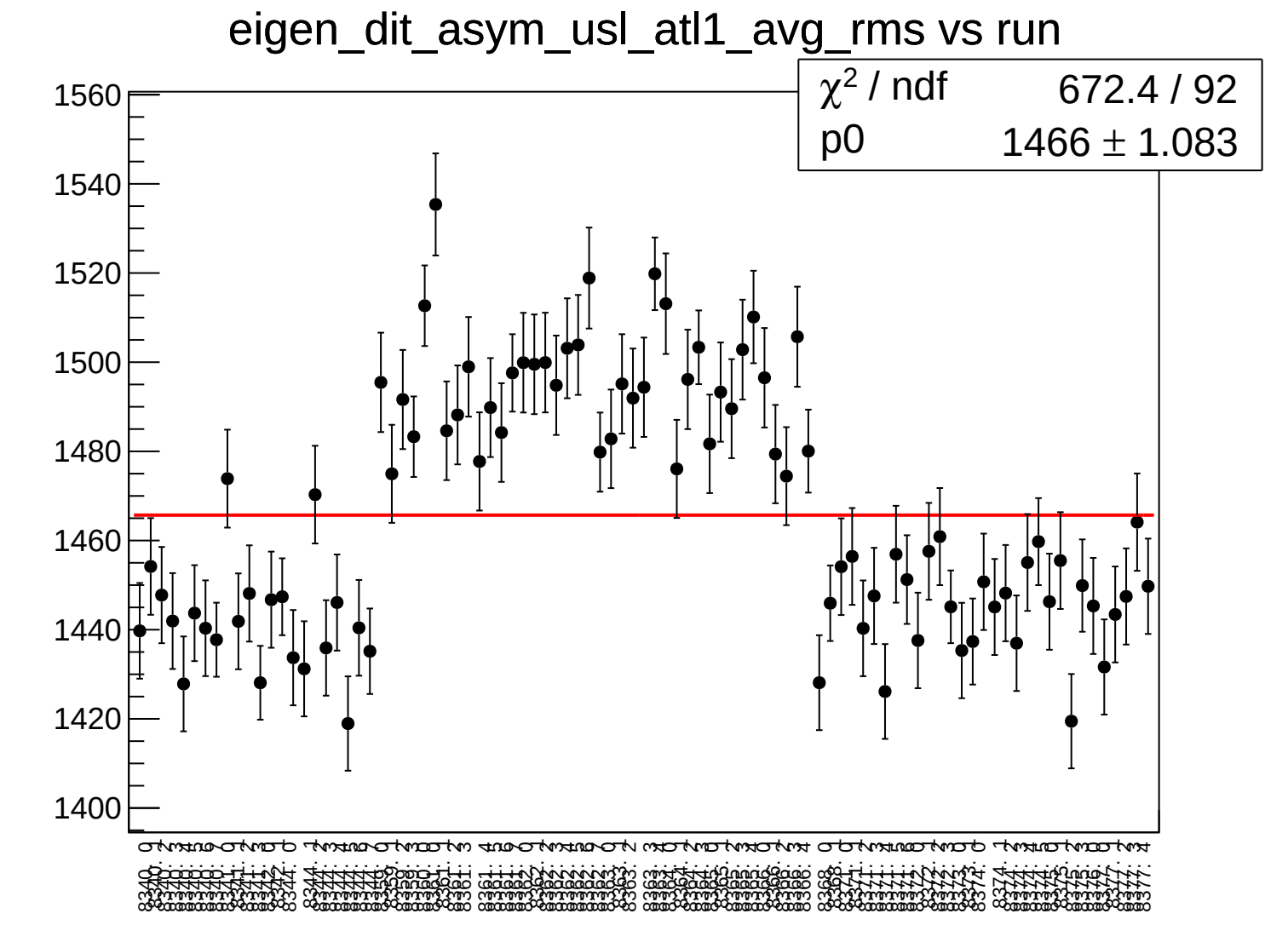

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 98.1 / 92
p0 −1594 ± 607.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 261.3
Std Dev 0
3
2
1
0
−1
−2

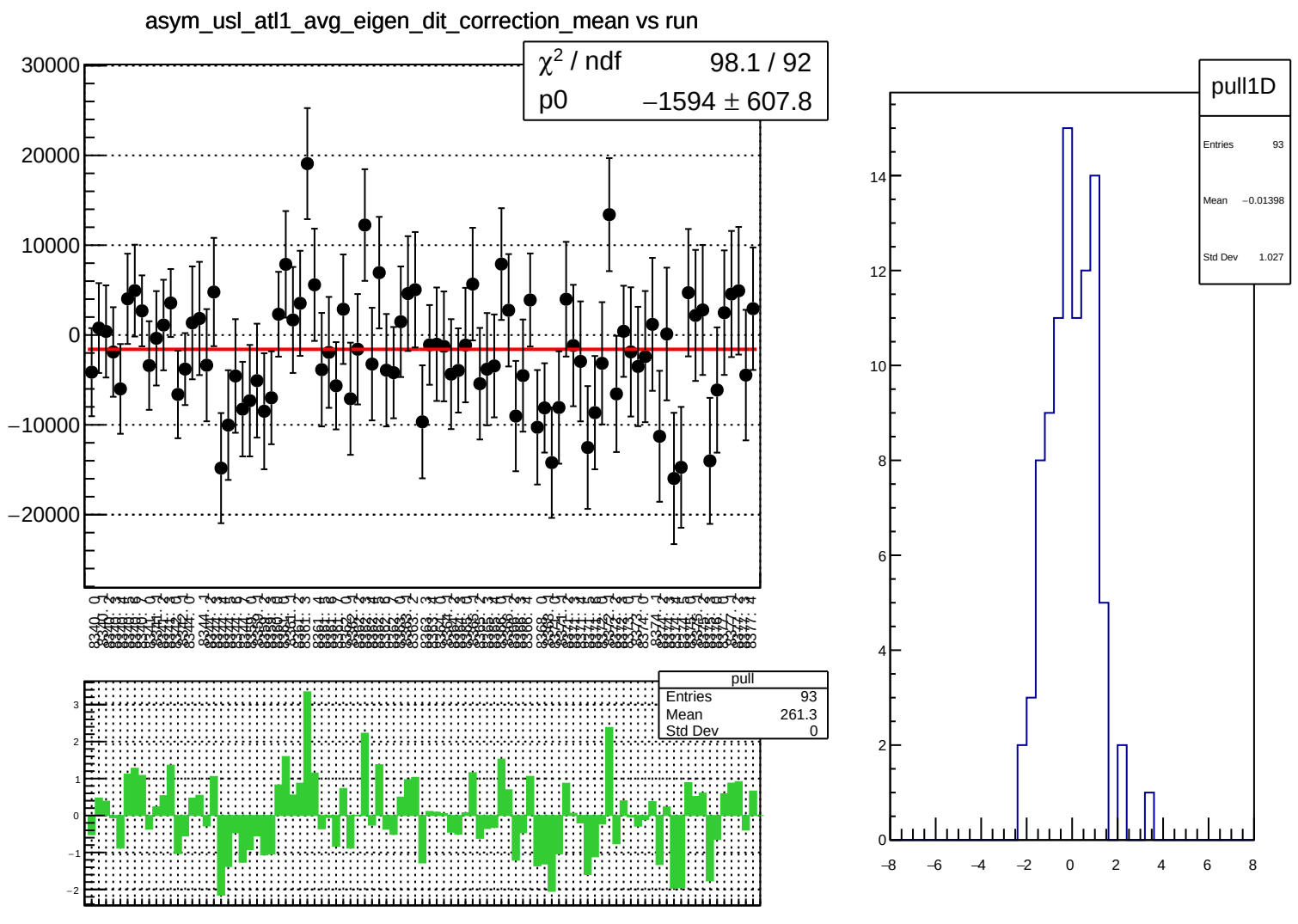

pull1D
Entries 93
Mean −0.01398
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

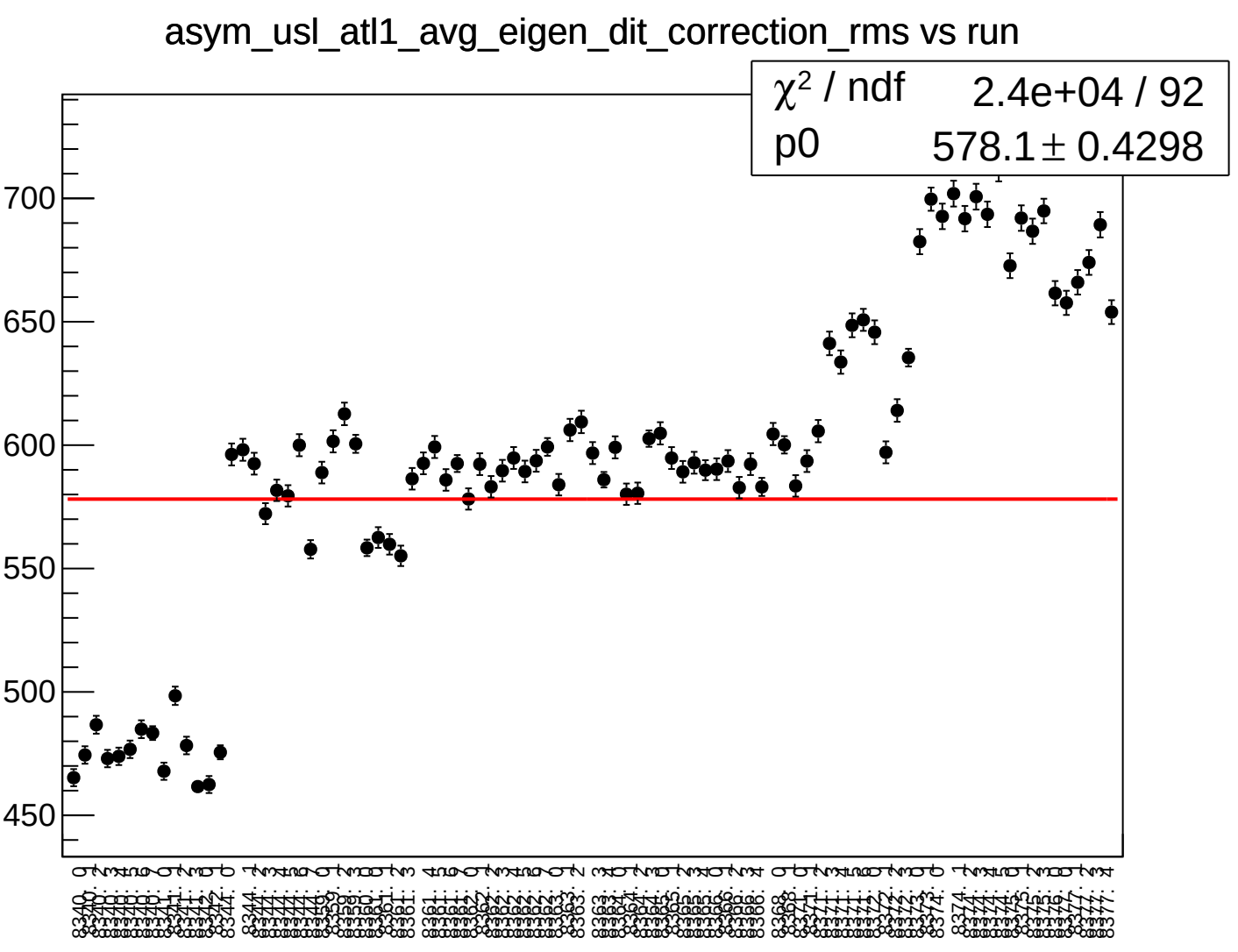

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 2.4e+04 / 92
p0 578.1 ± 0.4298
700
650
600
550
500
450

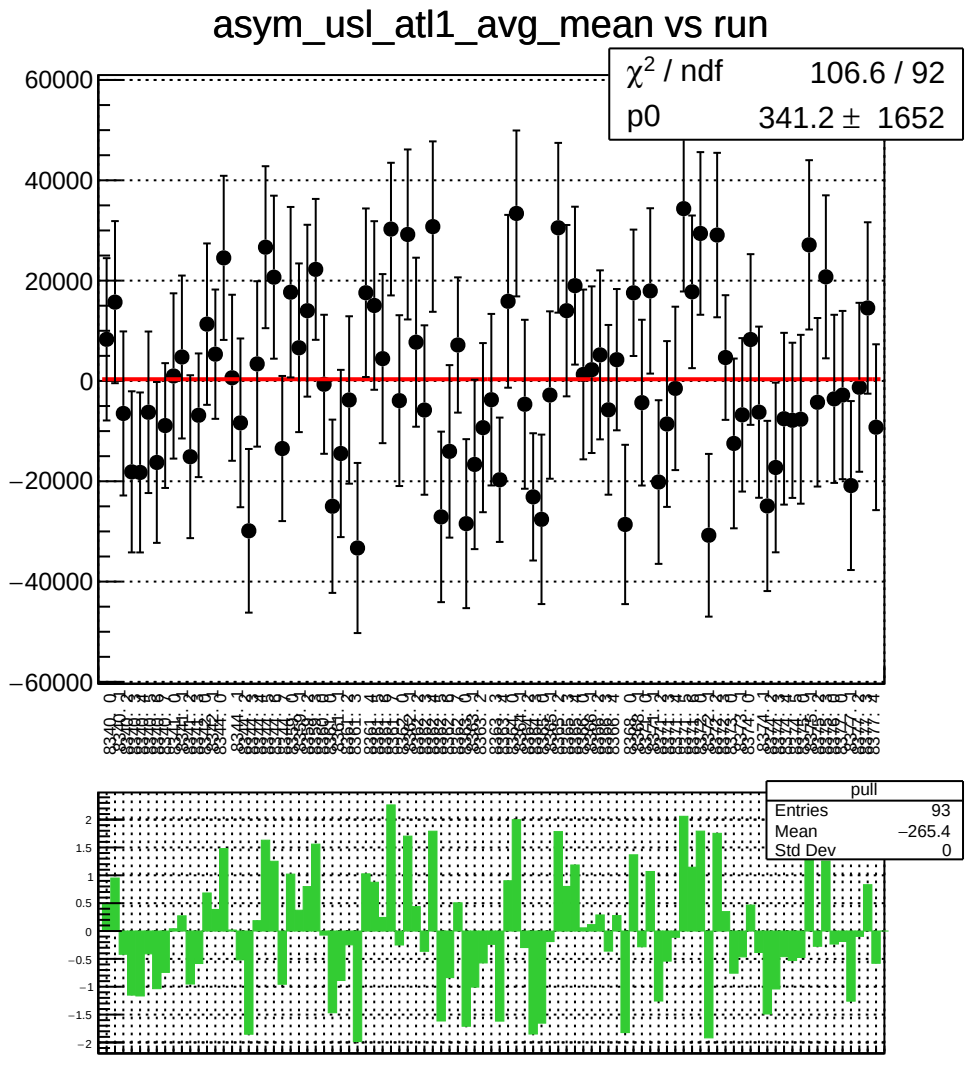

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 105 / 92
p0 −1533 ± 1531
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −273.6
Std Dev 0
2
1
0
−1
−2

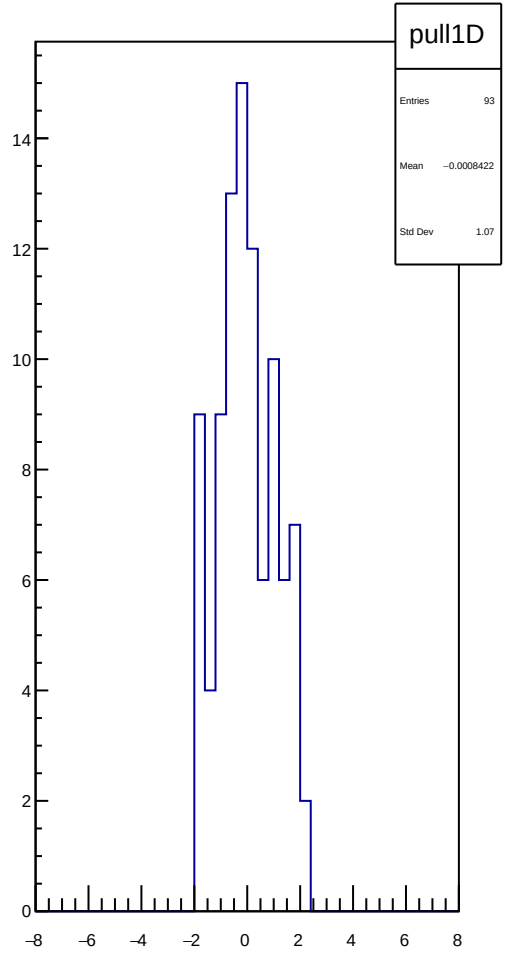

pull1D
Entries 93
Mean 0.003271
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

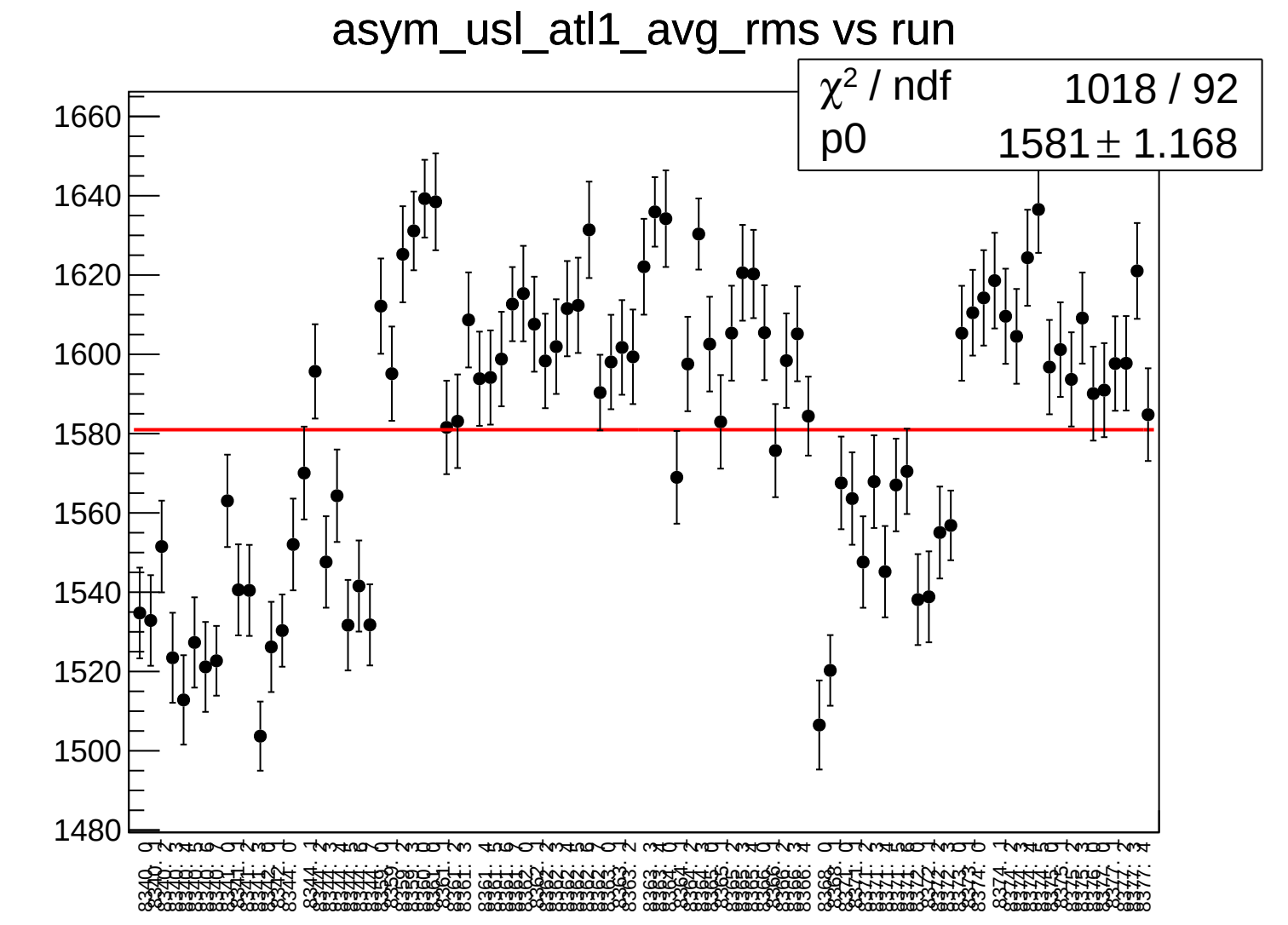

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 672.4 / 92
p0 1466 ± 1.083
1560
1540
1520
1500
1480
1460
1440
1420
1400

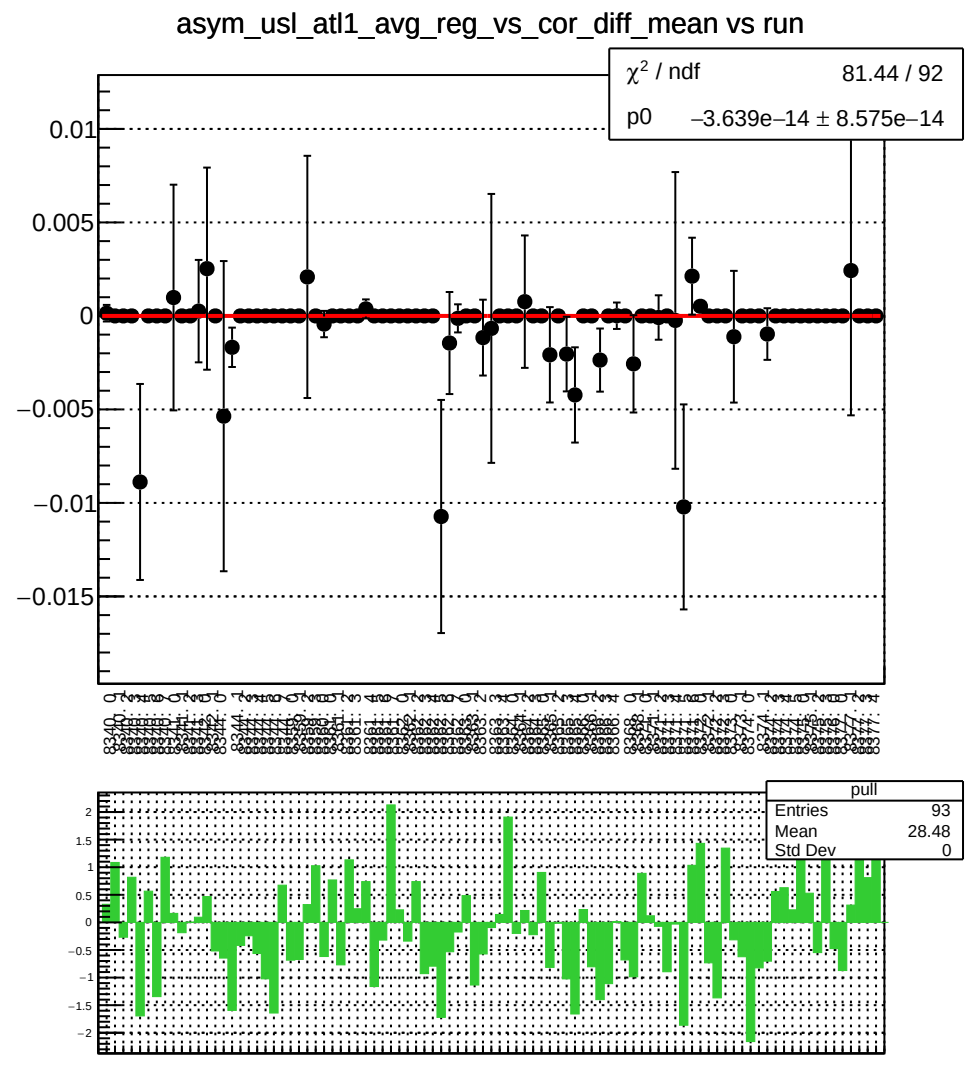

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.1 / 92
p0 −1594 ± 607.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 261.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01398
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

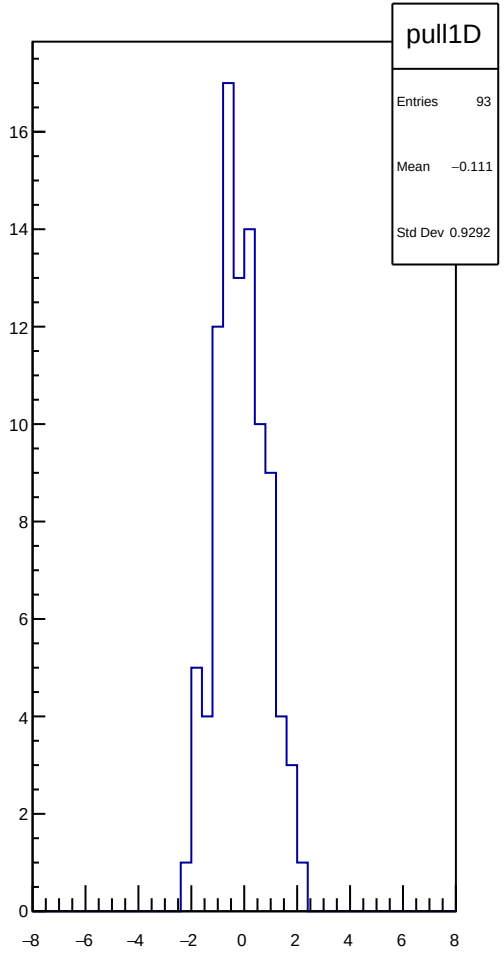

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.4e+04 / 92
p0 578.1 ± 0.4298
700
650
600
550
500
450

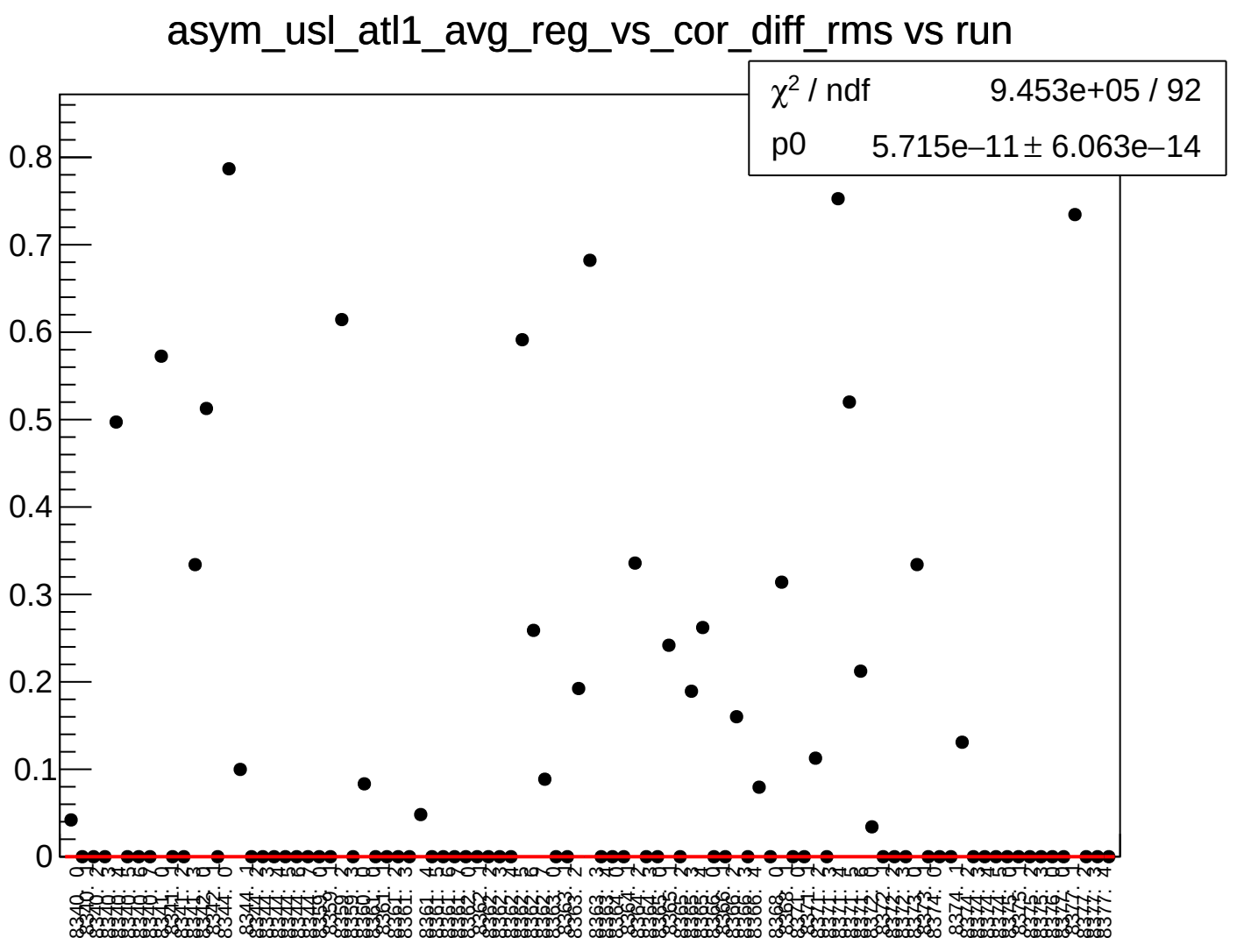

asym_usl_atl1_avg_mean vs run
χ² / ndf 106.6 / 92
p0 341.2 ± 1652
pull
Entries 93
Mean −265.4
Std Dev 0

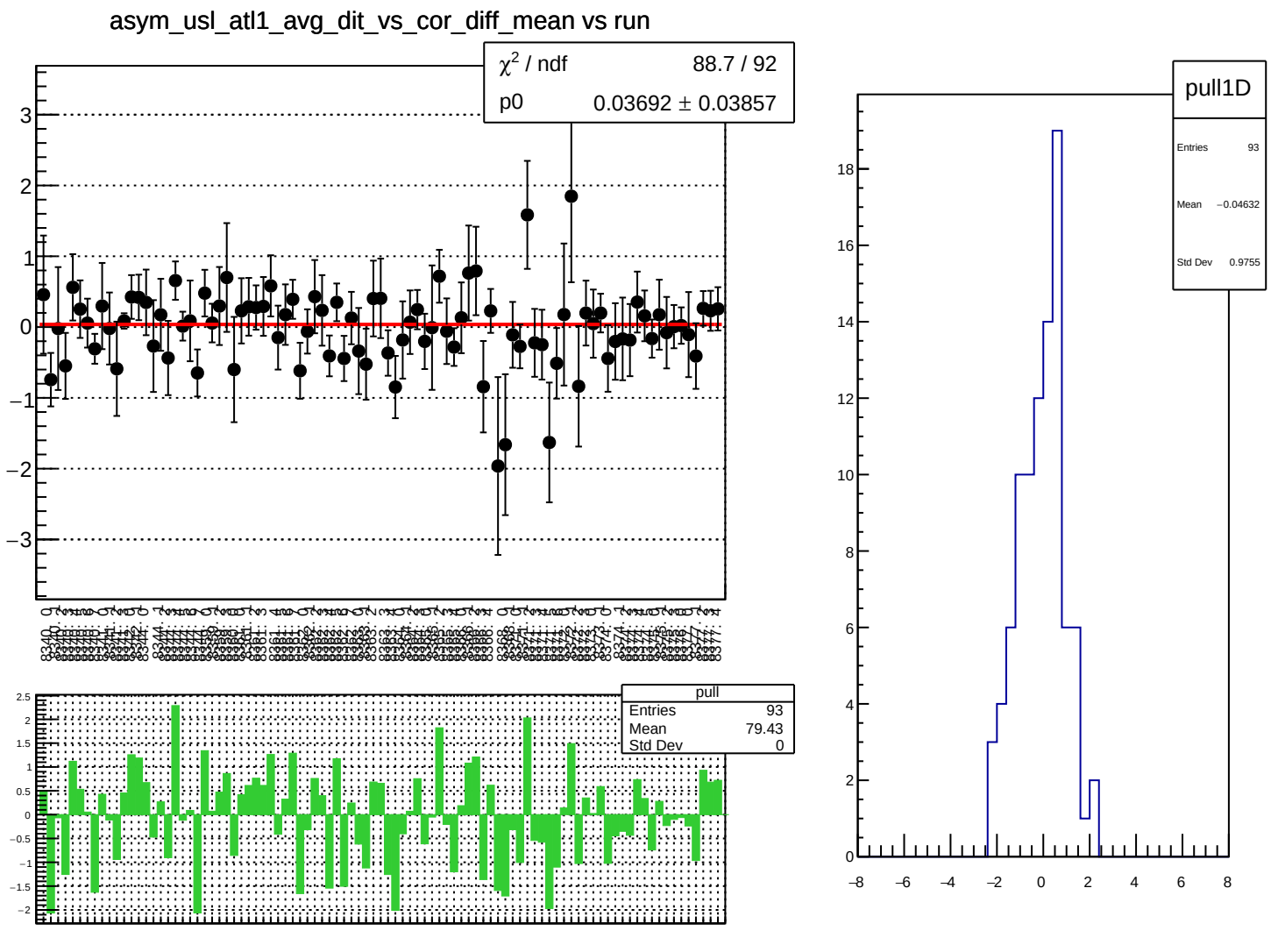

pull1D
Entries 93
Mean −0.0008422
Std Dev 1.07

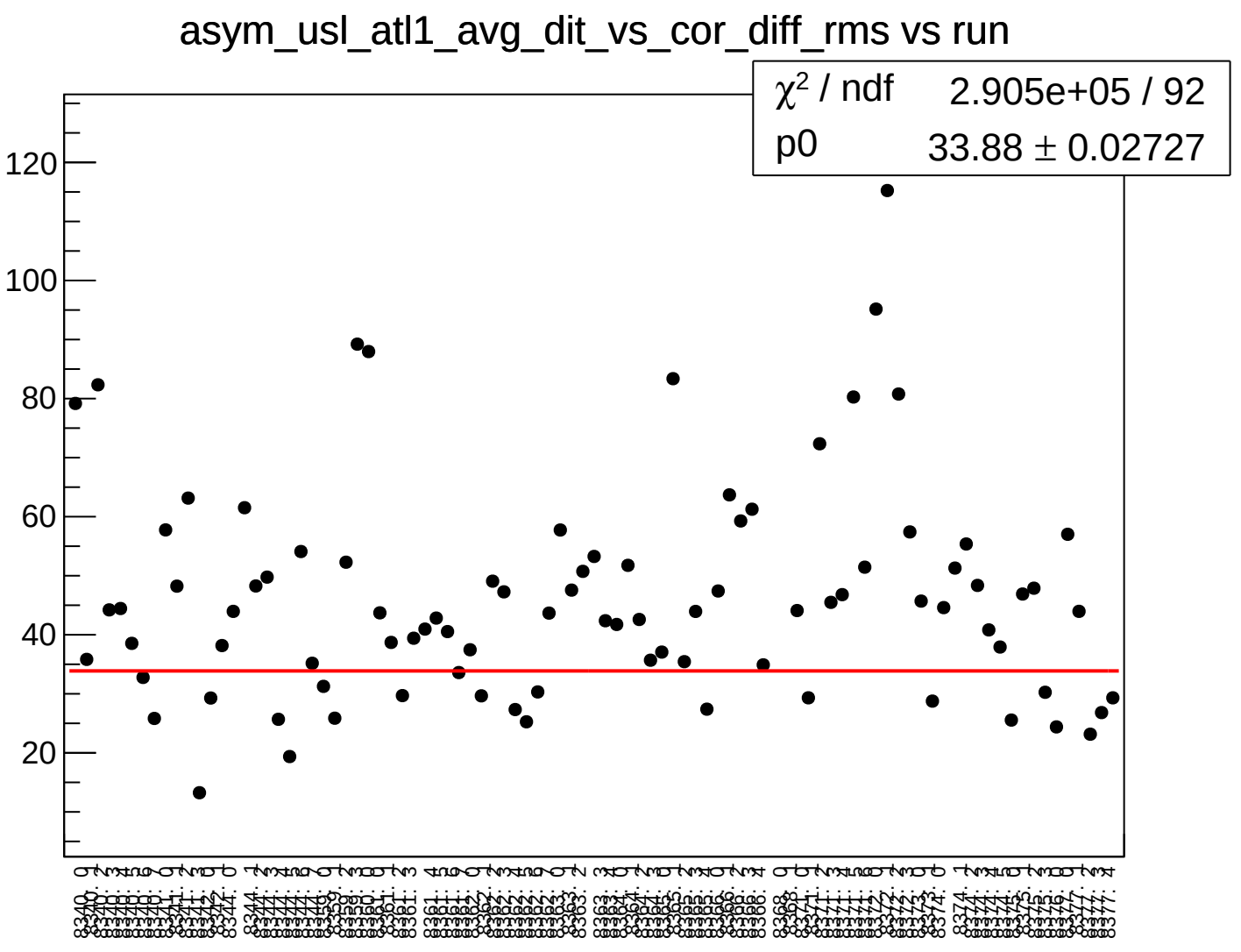

asym_usl_atl1_avg_rms vs run
χ² / ndf 1018 / 92
p0 1581 ± 1.168
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480

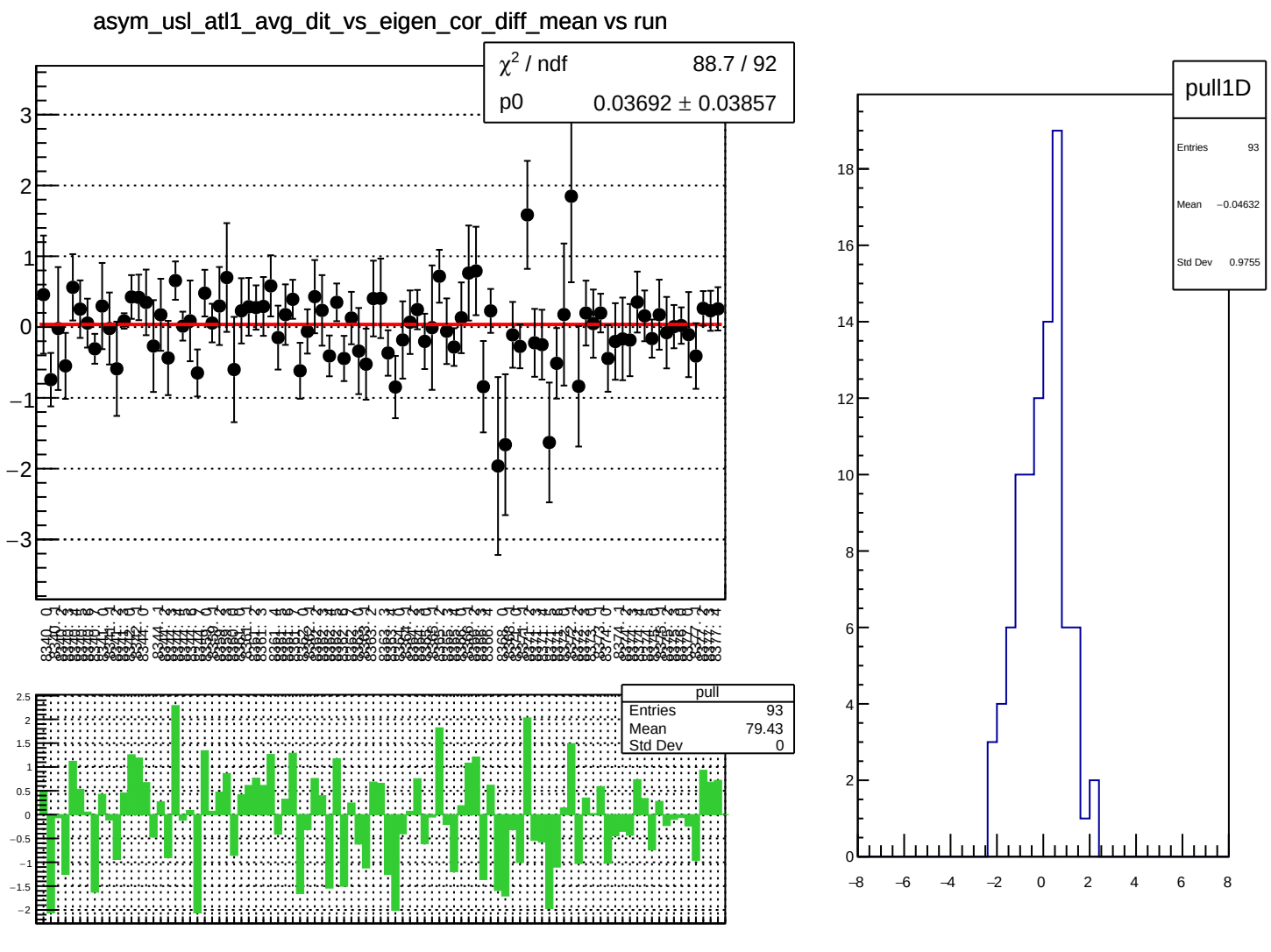

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.44 / 92
p0 −3.639e−14 ± 8.575e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 28.48
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

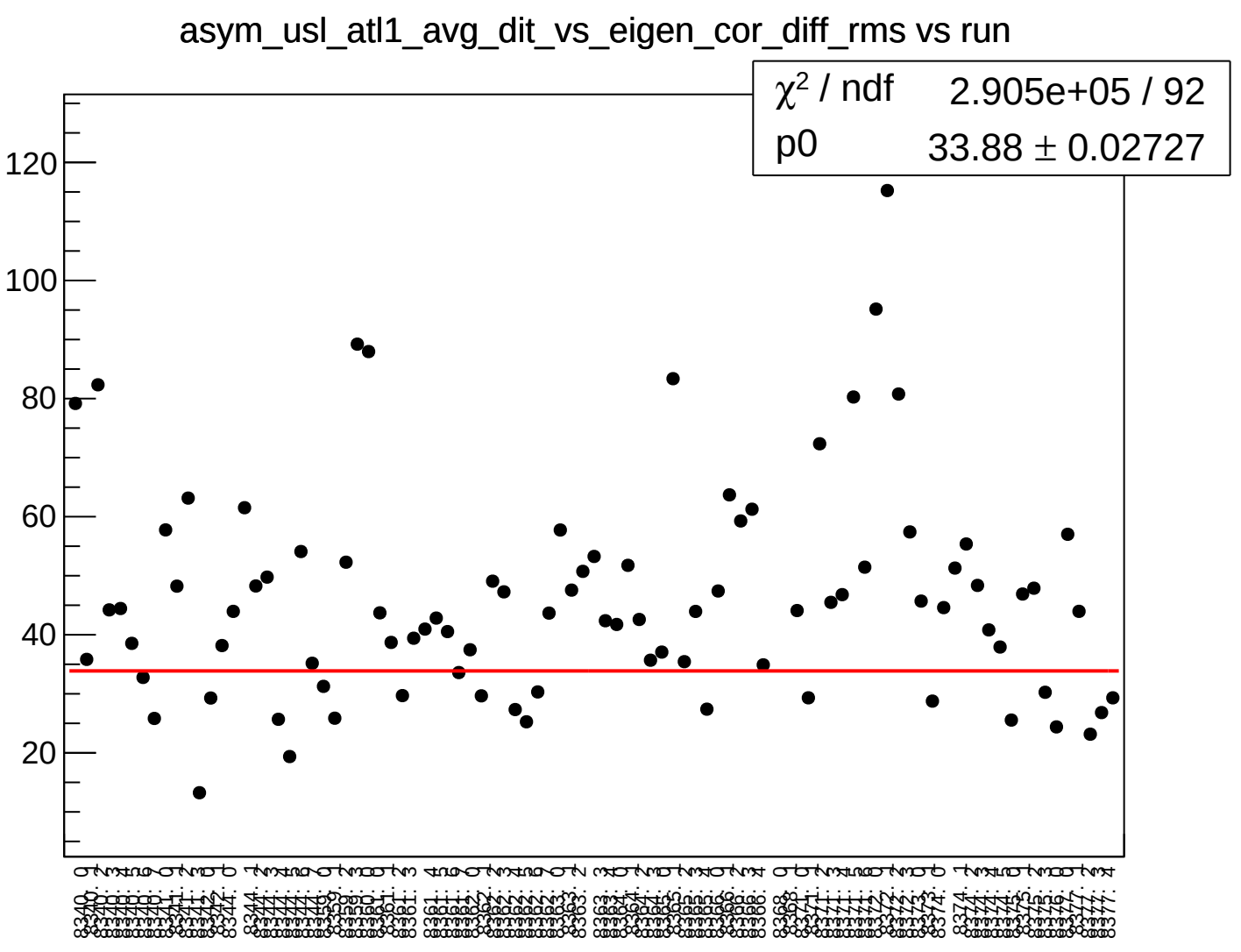

pull1D
Entries 93
Mean −0.111
Std Dev 0.9292
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

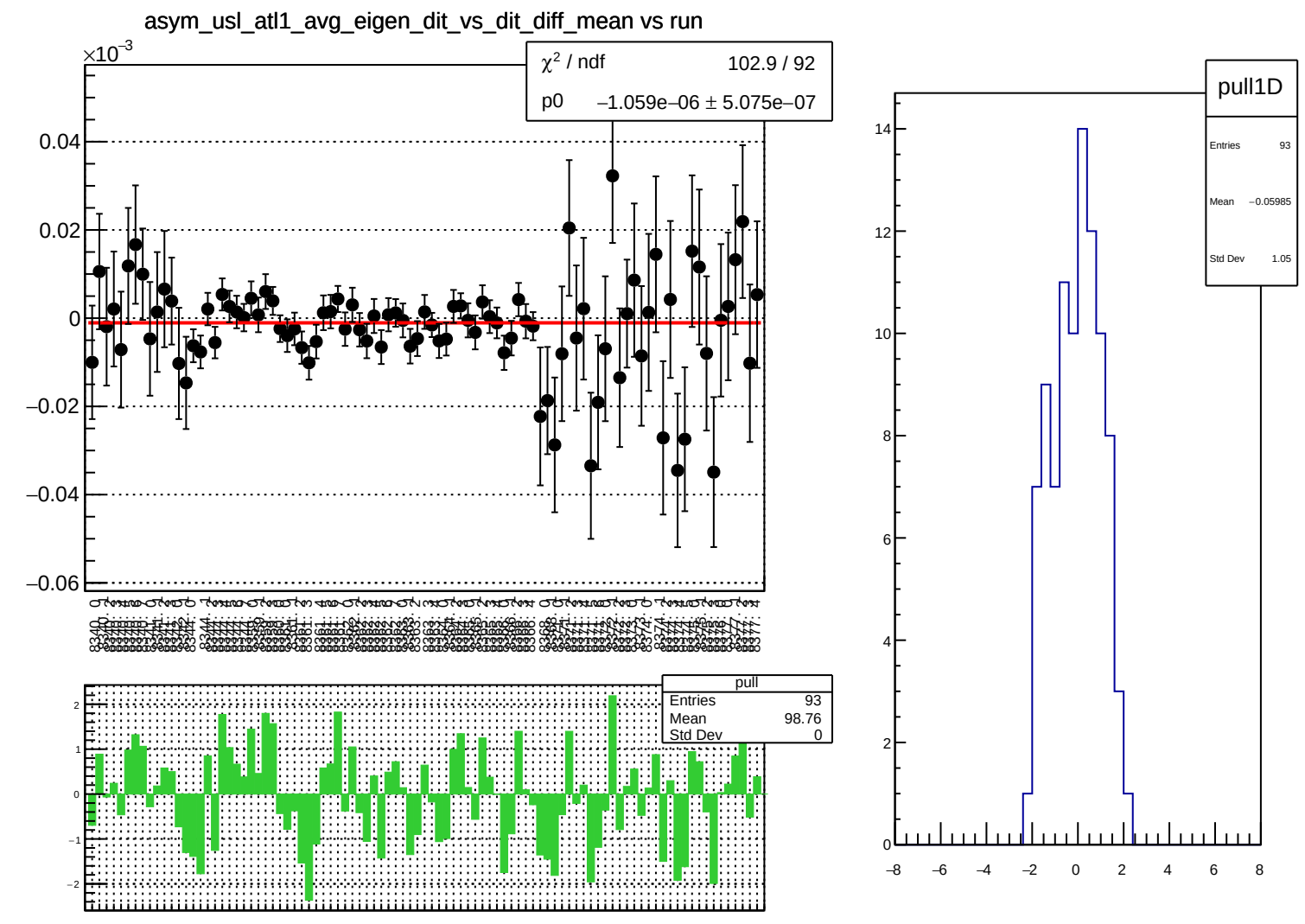

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.453e+05 / 92
p0 5.715e−11 ± 6.063e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

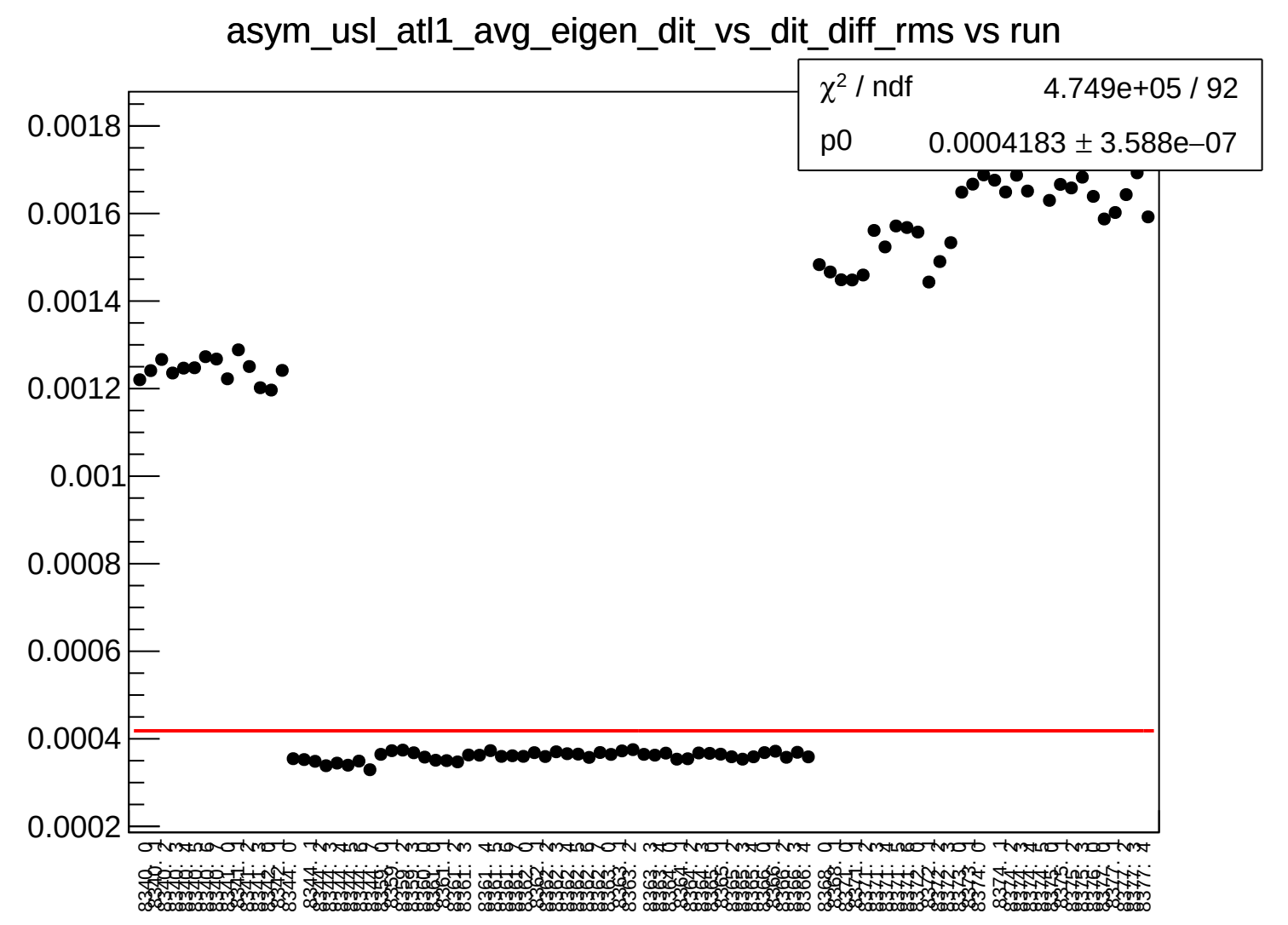

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.7 / 92
p0 0.03692 ± 0.03857
pull
Entries 93
Mean 79.43
Std Dev 0
pull1D
Entries 93
Mean −0.04632
Std Dev 0.9755

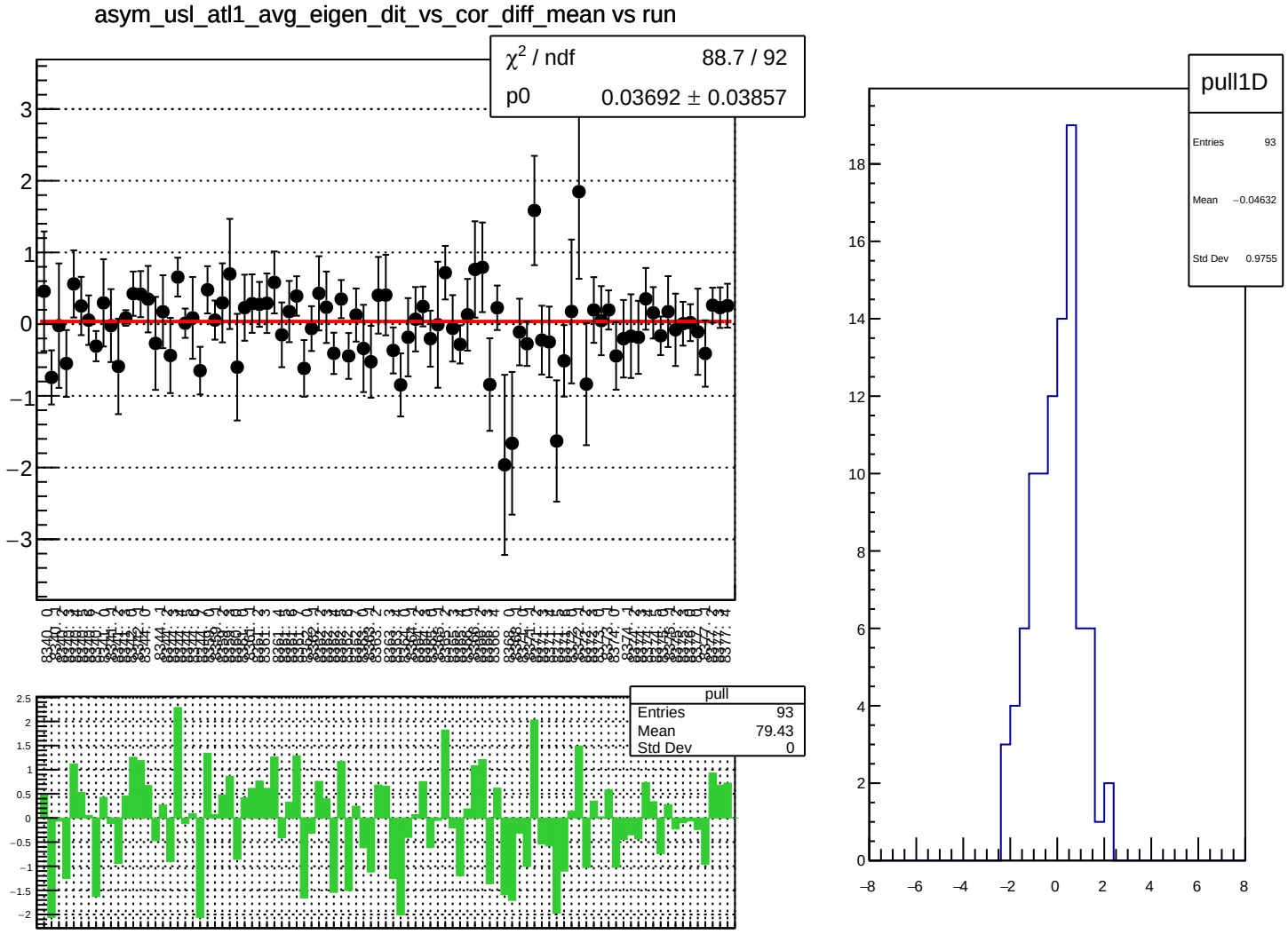

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.905e+05 / 92
p0 33.88 ± 0.02727
120
100
80
60
40
20

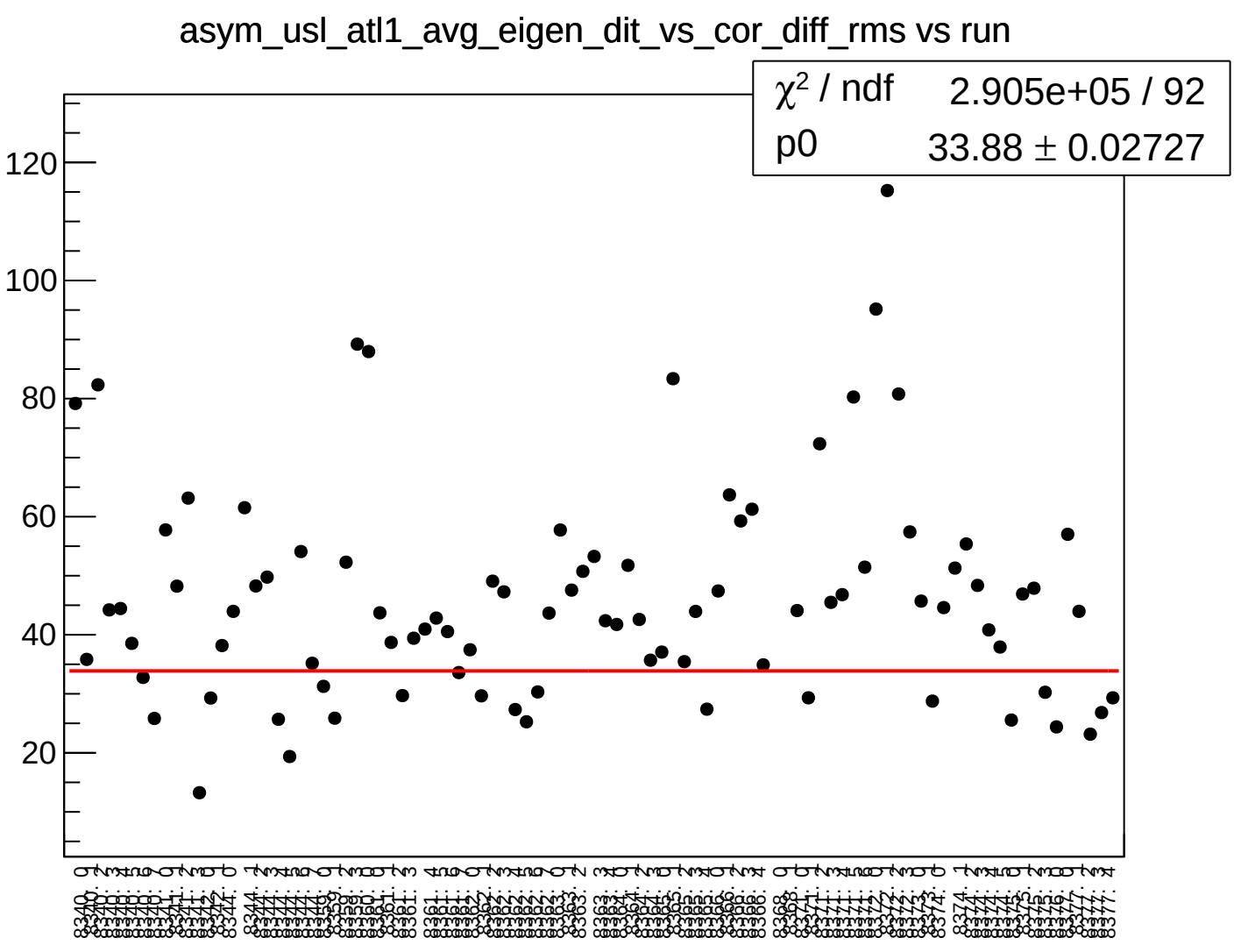

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.7 / 92
p0 0.03692 ± 0.03857
pull
Entries 93
Mean 79.43
Std Dev 0
pull1D
Entries 93
Mean −0.04632
Std Dev 0.9755

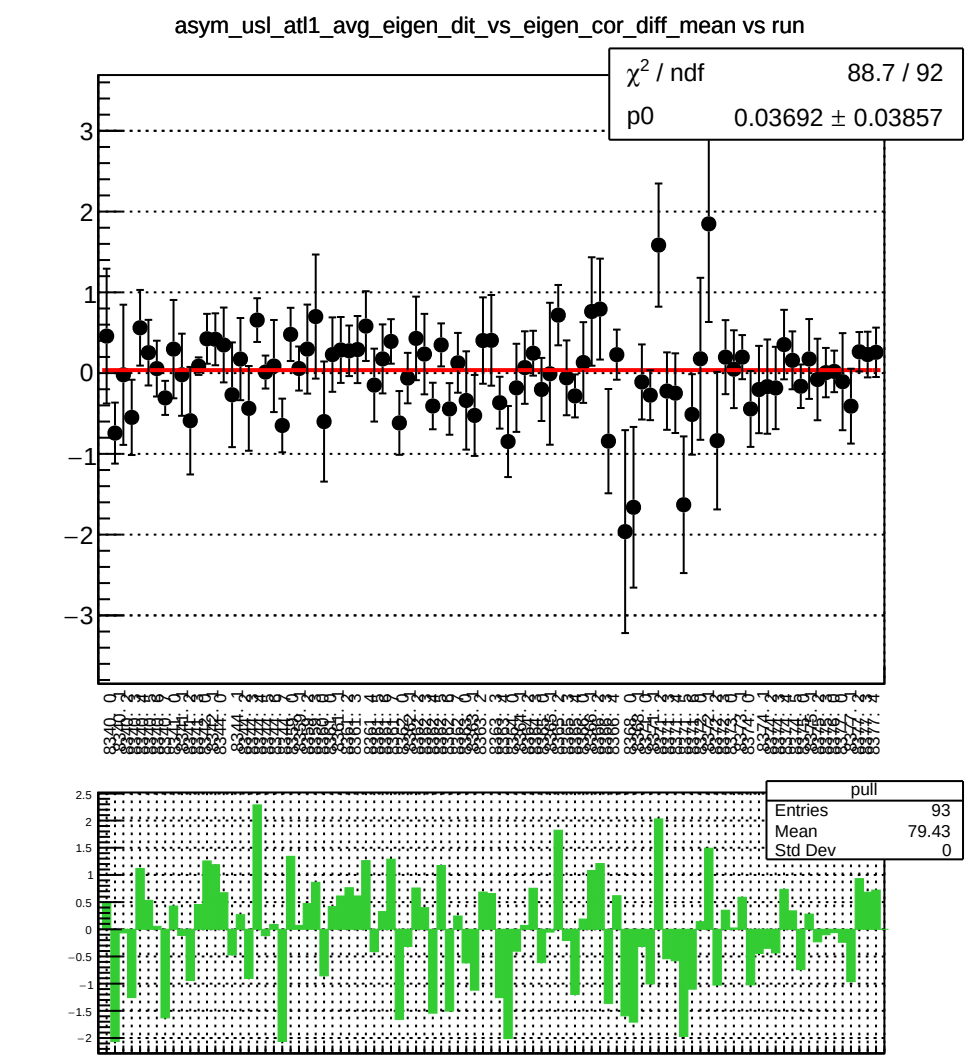

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.905e+05 / 92
p0 33.88 ± 0.02727
120
100
80
60
40
20

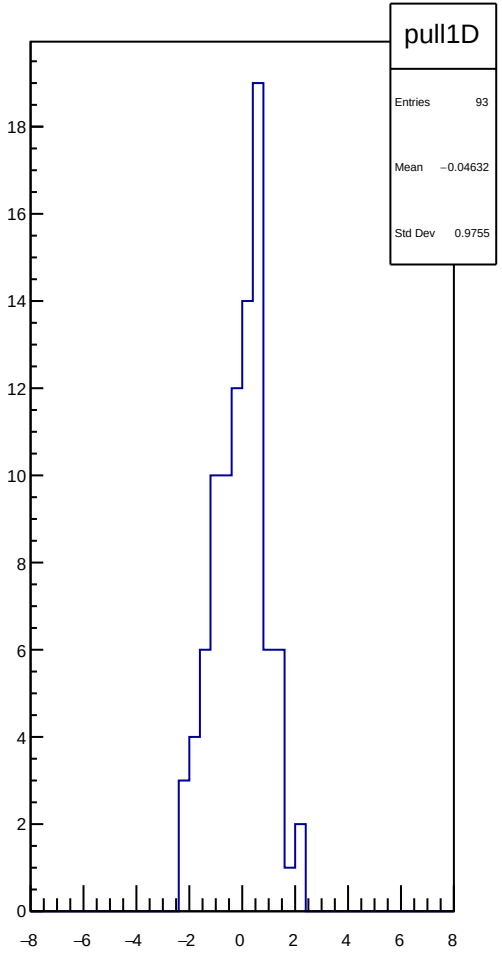

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.9 / 92
p0 −1.059e−06 ± 5.075e−07
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 98.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05985
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

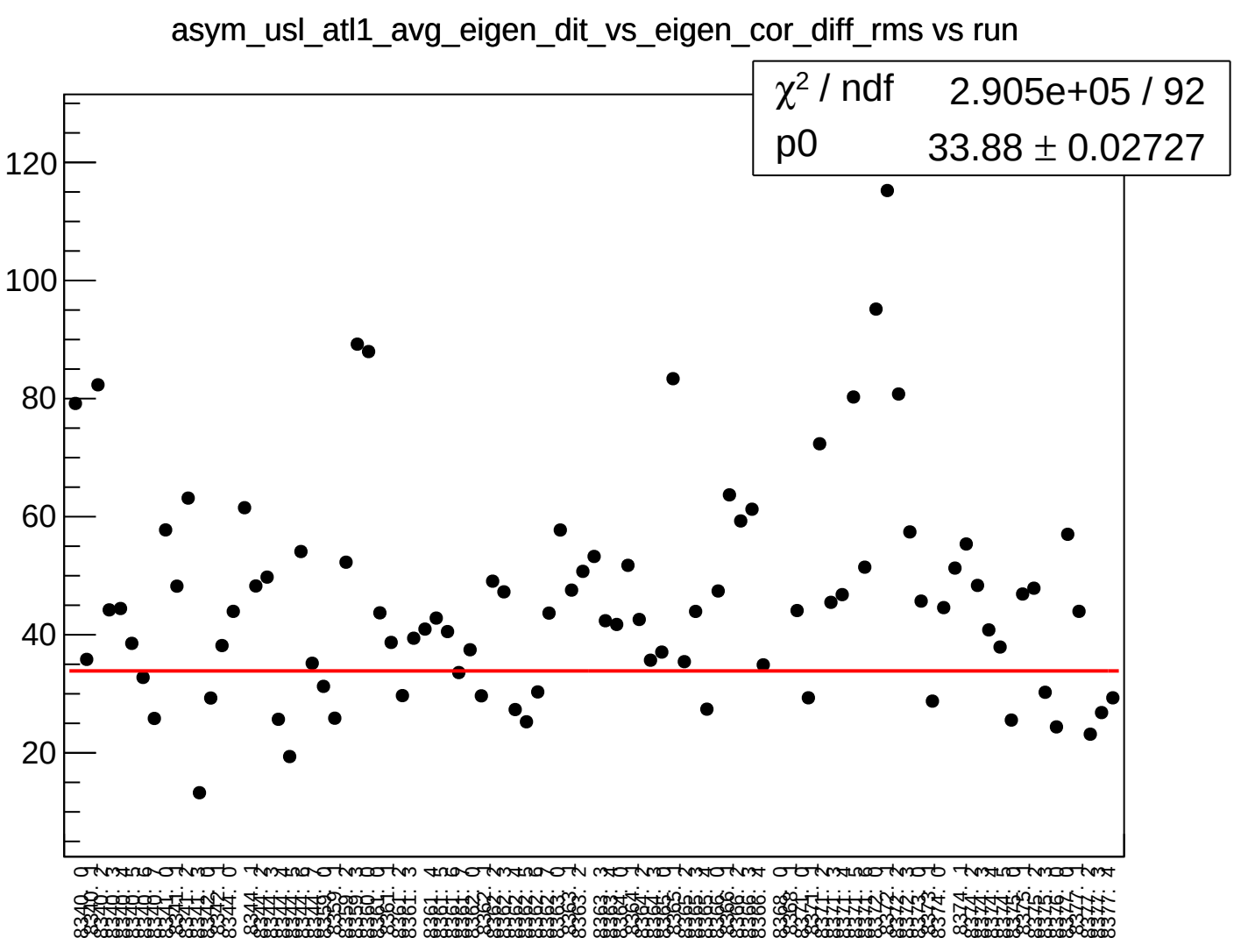

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.749e+05 / 92
p0 0.0004183 ± 3.588e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

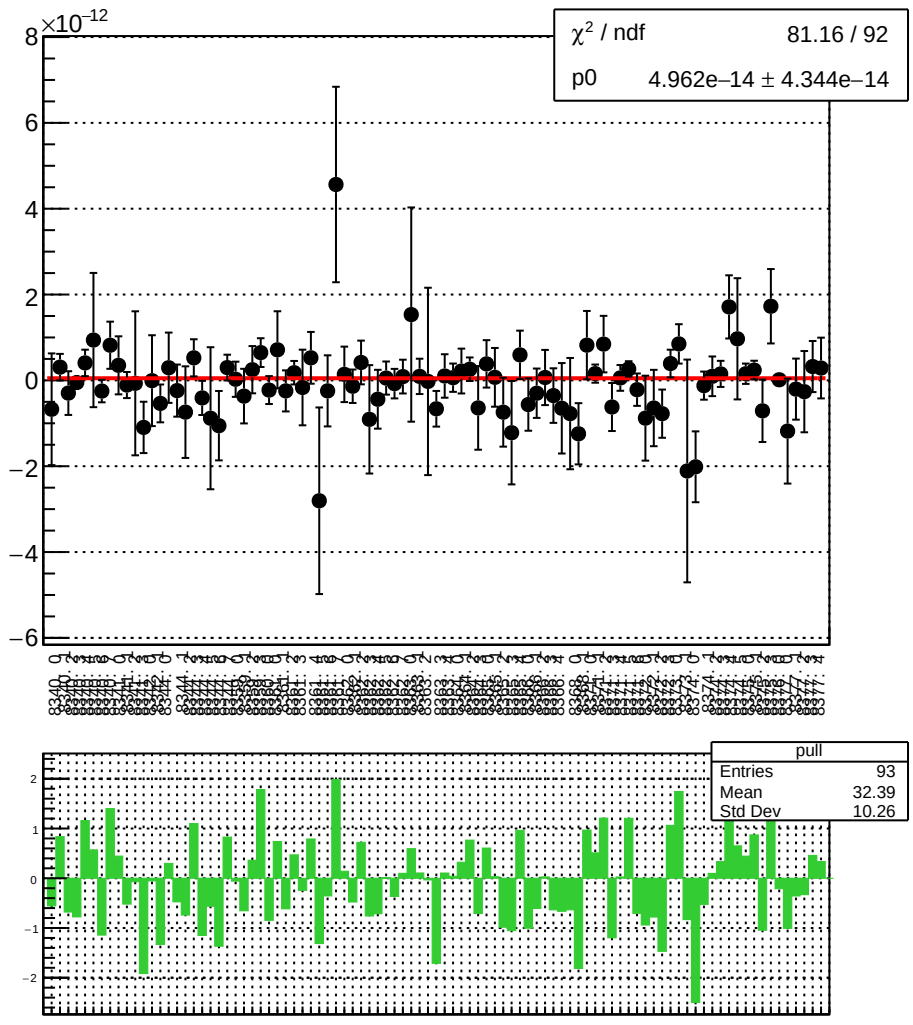

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.7 / 92
p0 0.03692 ± 0.03857
pull
Entries 93
Mean 79.43
Std Dev 0
pull1D
Entries 93
Mean −0.04632
Std Dev 0.9755

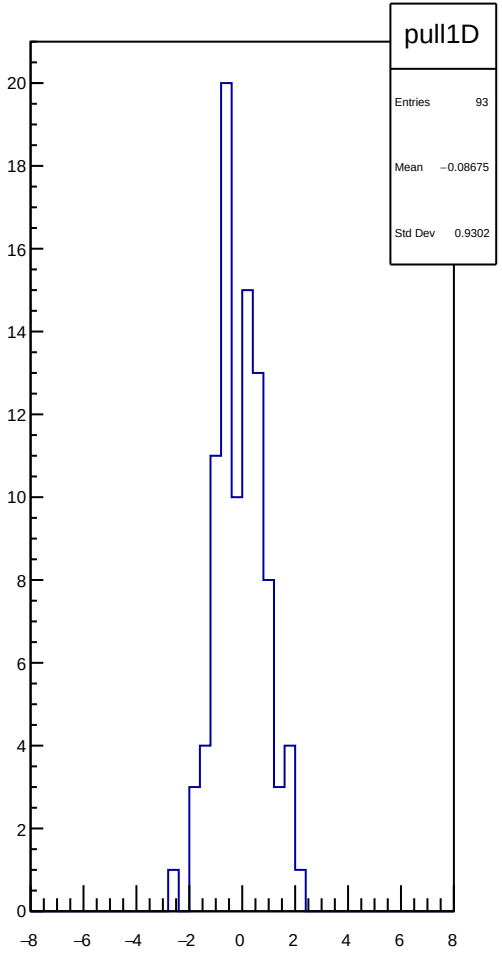

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.905e+05 / 92
p0 33.88 ± 0.02727
120
100
80
60
40
20

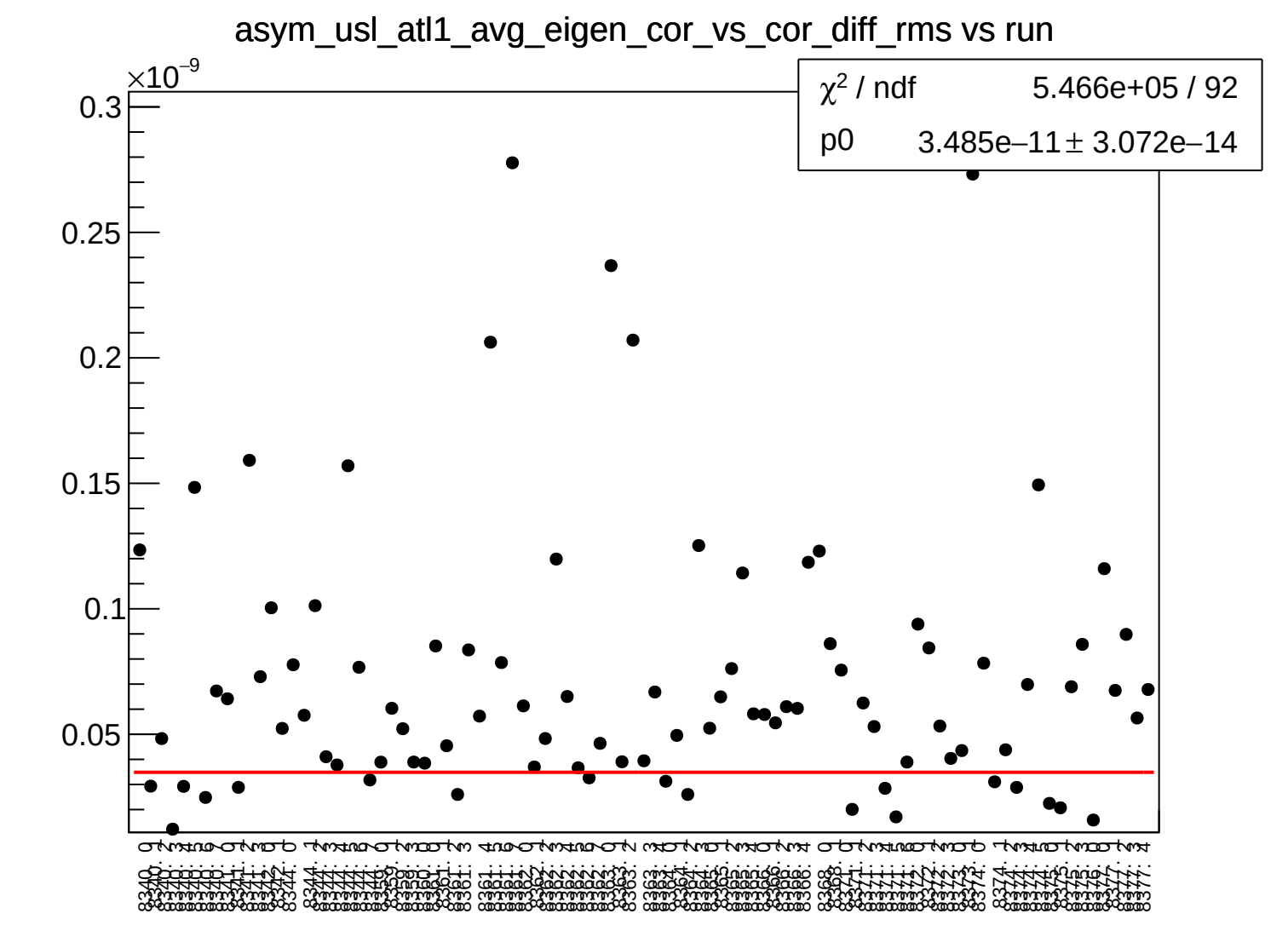

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.7 / 92
p0 0.03692 ± 0.03857
pull
Entries 93
Mean 79.43
Std Dev 0

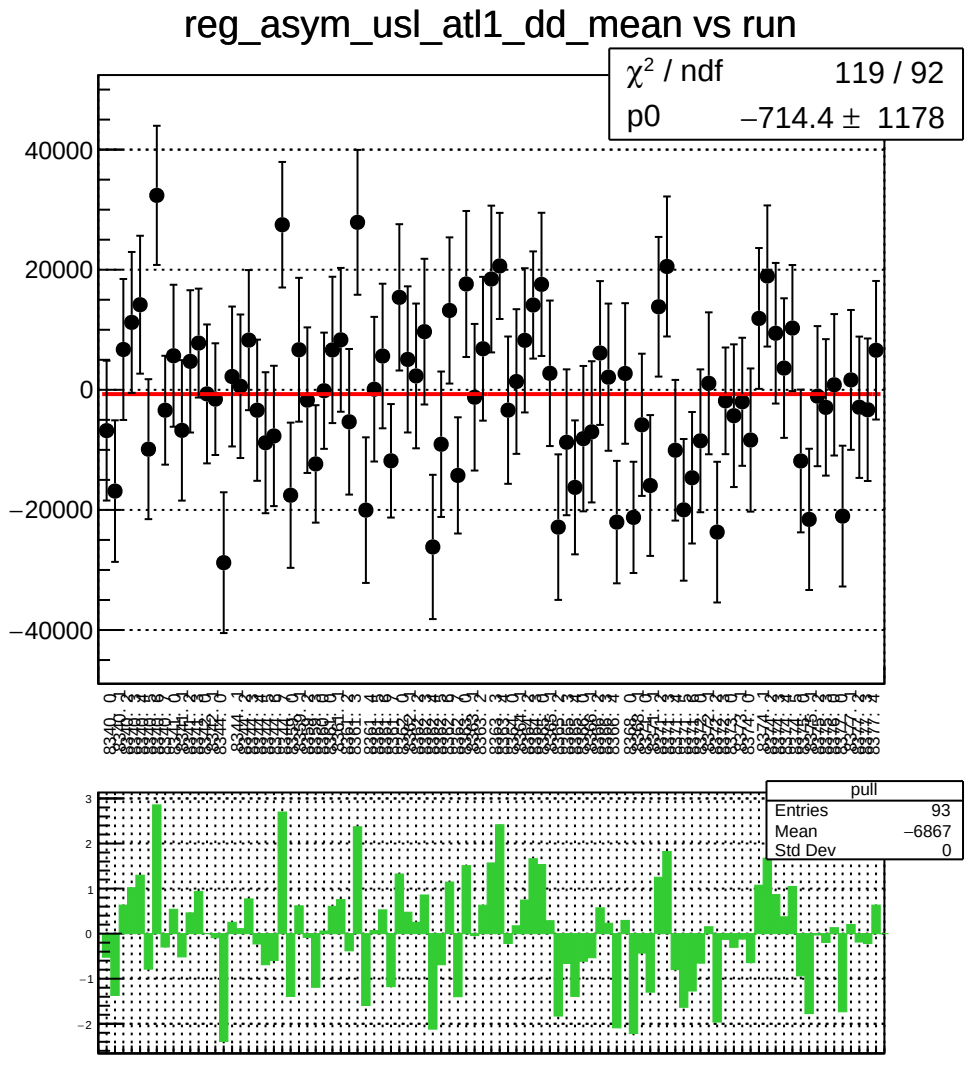

pull1D
Entries 93
Mean −0.04632
Std Dev 0.9755

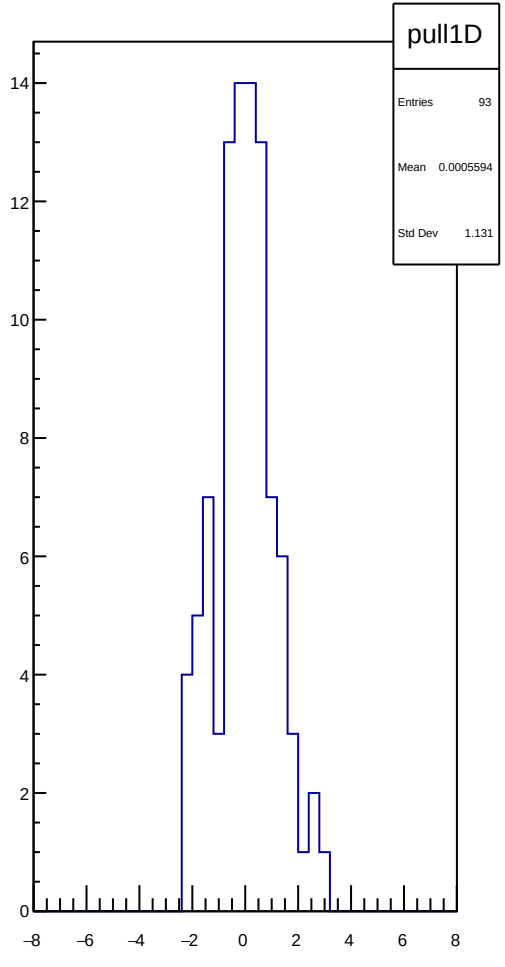

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.905e+05 / 92
p0 33.88 ± 0.02727
120
100
80
60
40
20

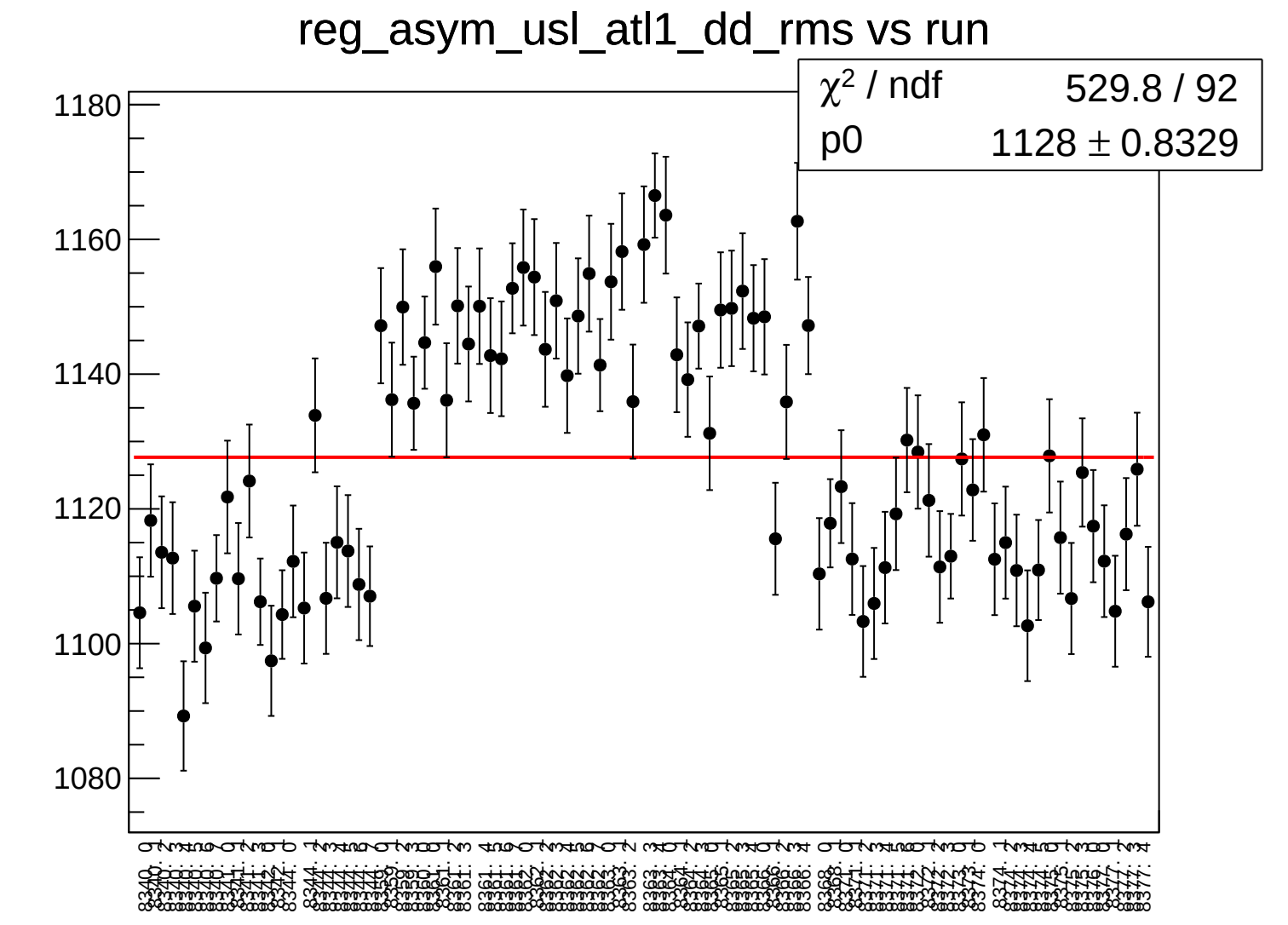

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.16 / 92
p0 4.962e−14 ± 4.344e−14
pull
Entries 93
Mean 32.39
Std Dev 10.26

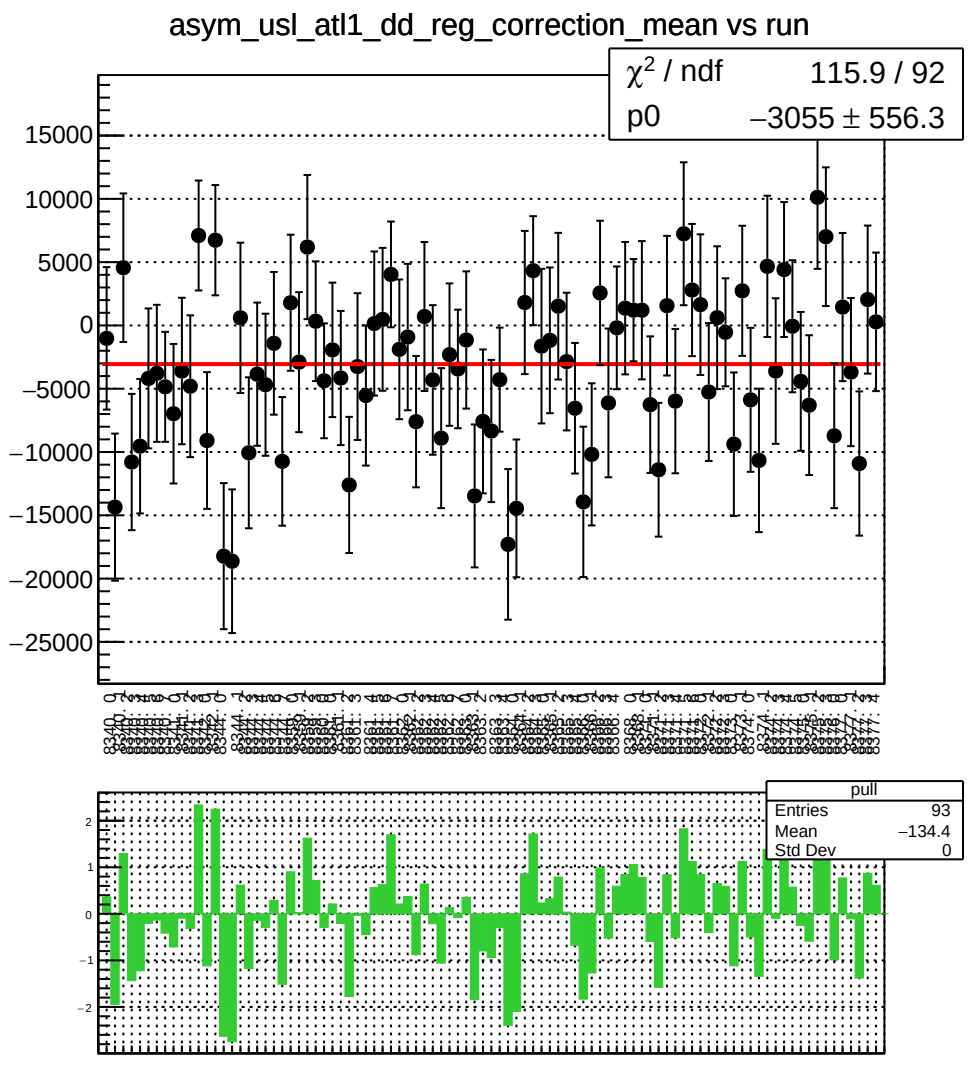

pull1D
Entries 93
Mean −0.08675
Std Dev 0.9302

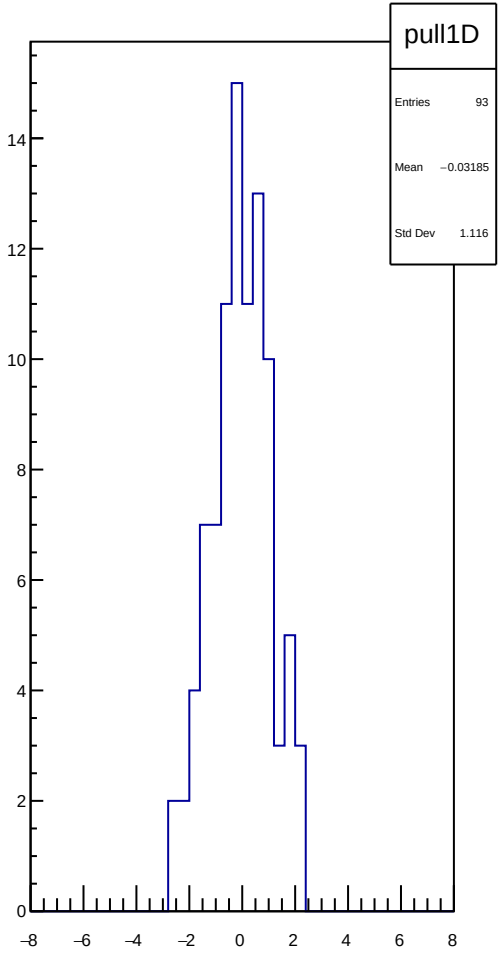

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.466e+05 / 92
p0 3.485e−11 ± 3.072e−14

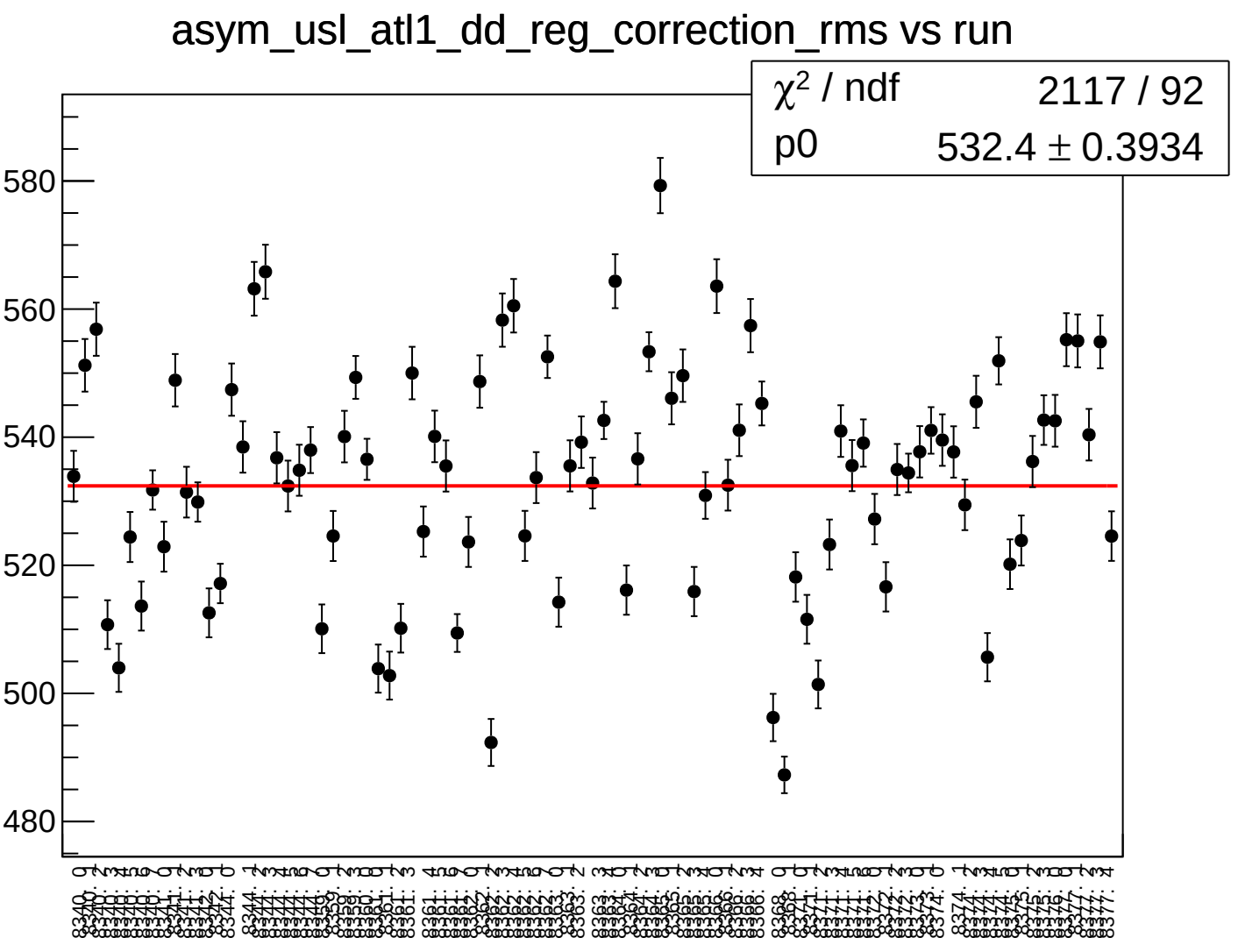

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 119 / 92
p0 −714.4 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −6867
Std Dev 0
3
2
1
0
−1
−2

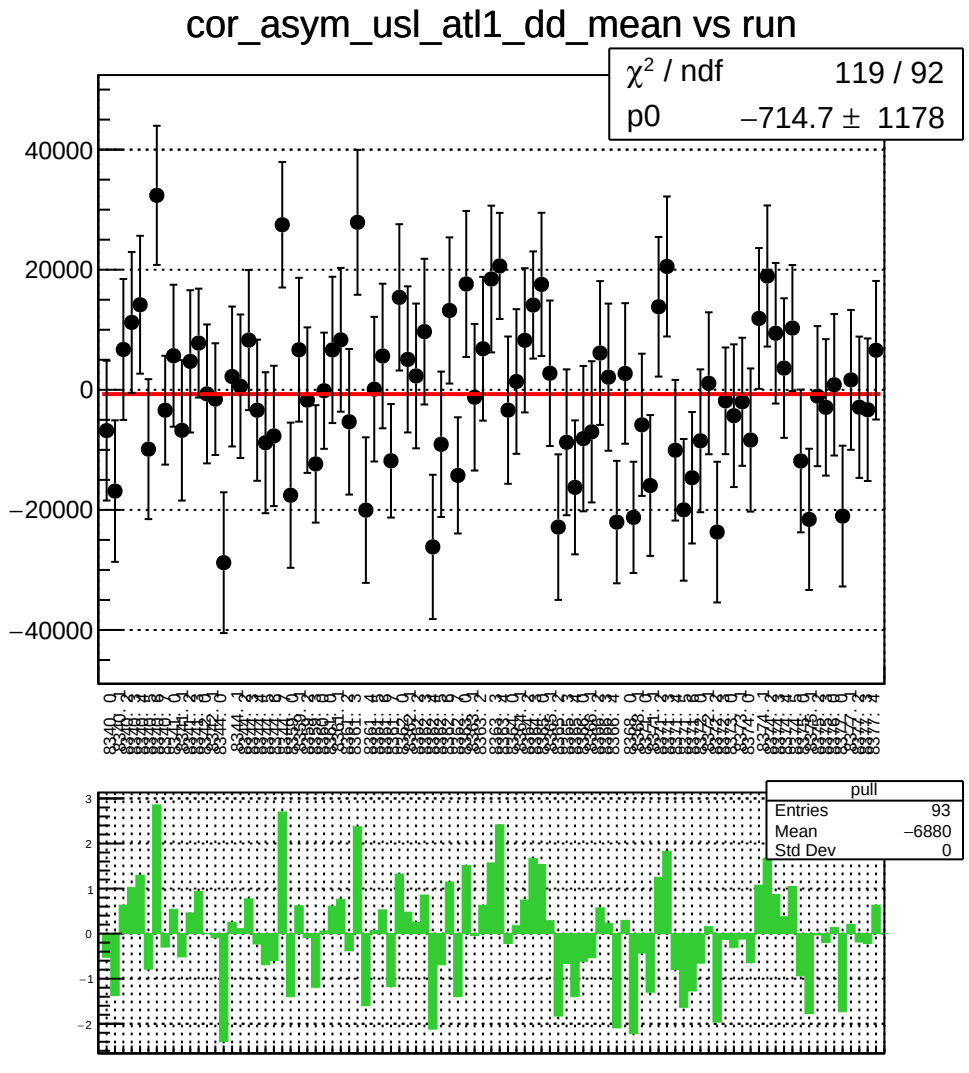

pull1D
Entries 93
Mean 0.0005594
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

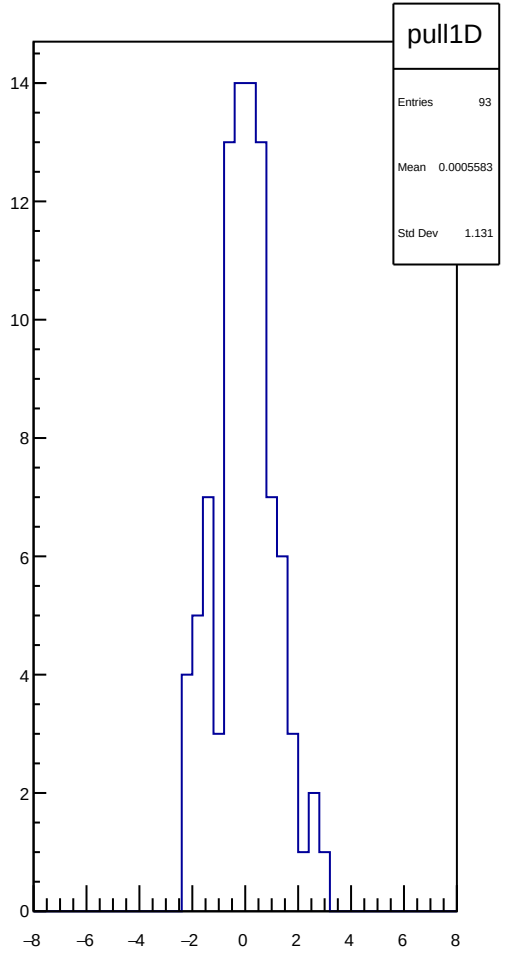

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 529.8 / 92
p0 1128 ± 0.8329
1180
1160
1140
1120
1100
1080

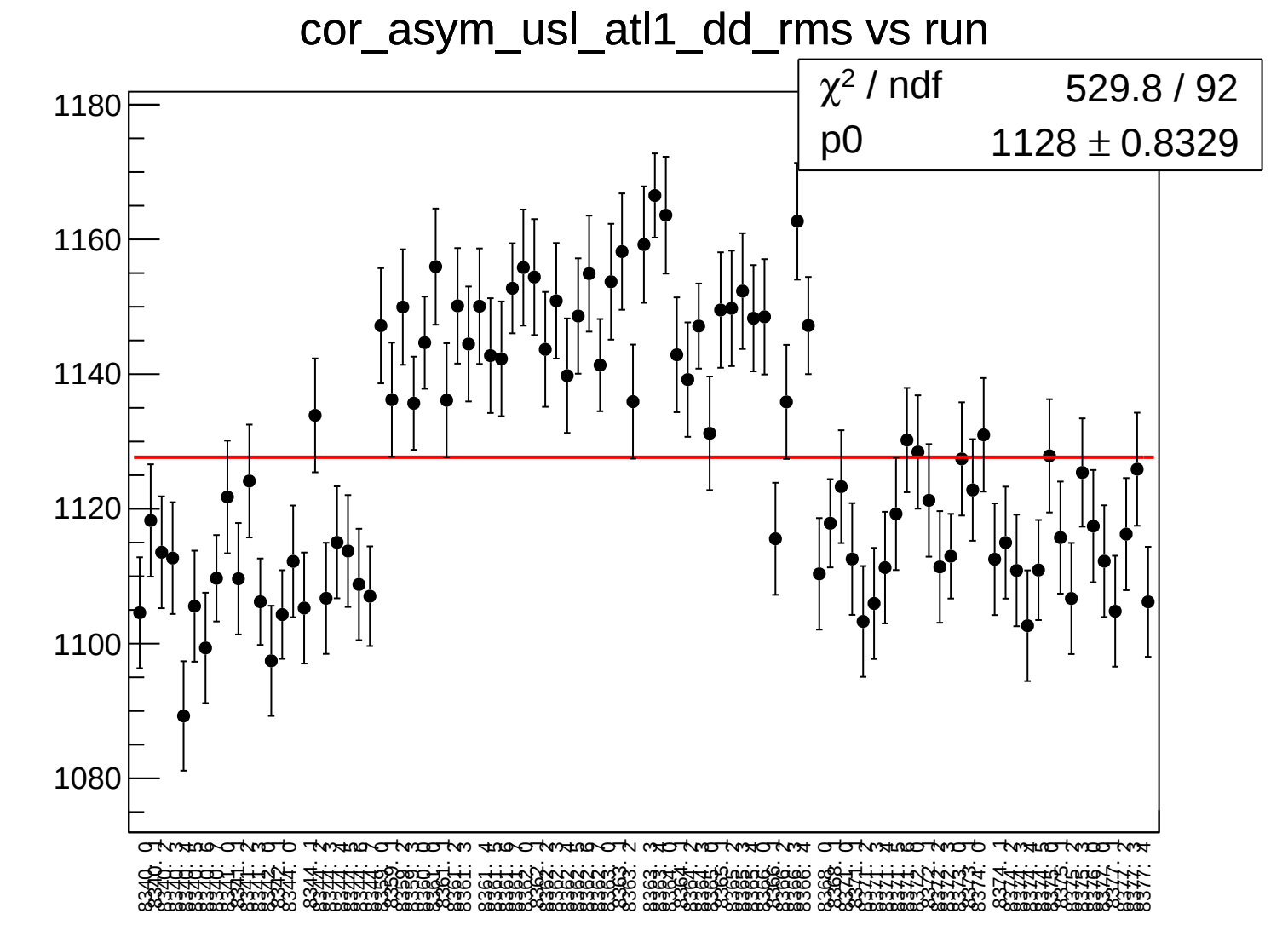

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −3055 ± 556.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −134.4
Std Dev 0
2
1
0
−1
−2

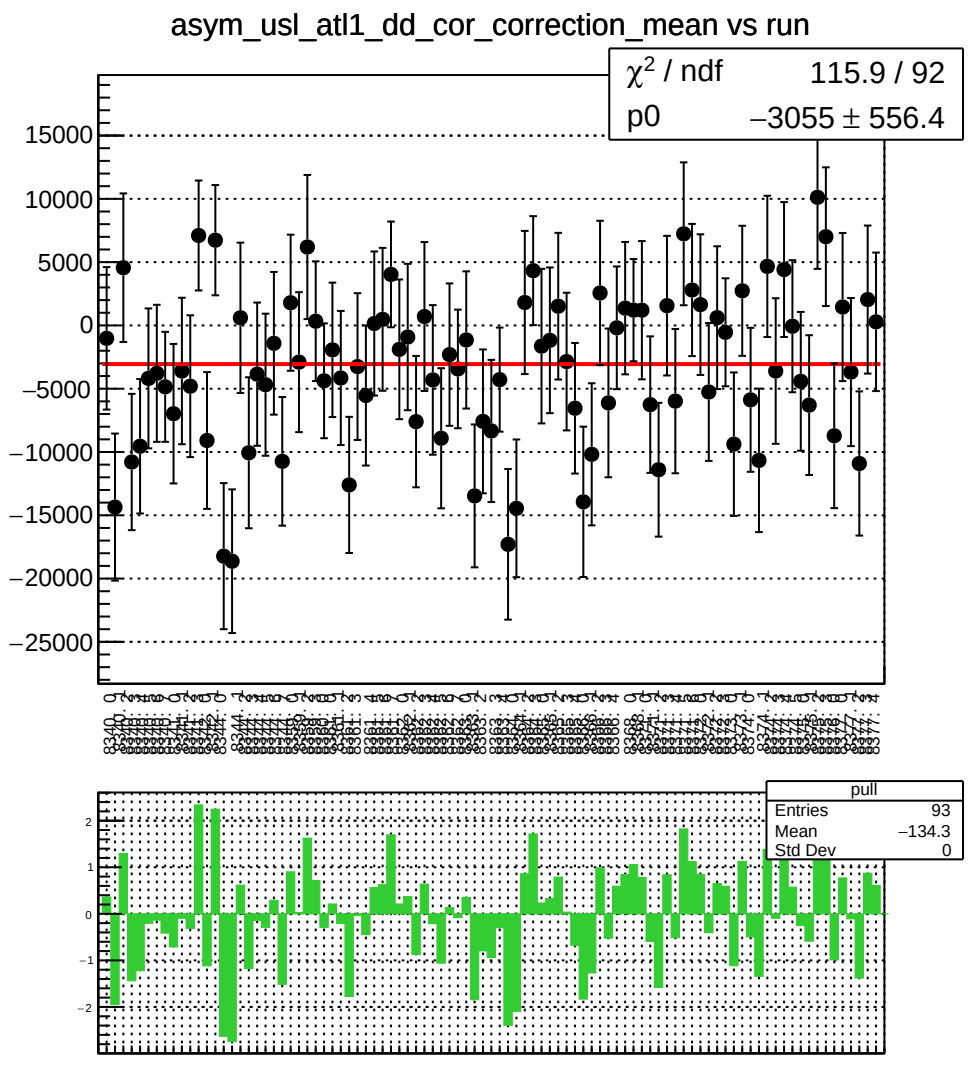

pull1D
Entries 93
Mean −0.03185
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

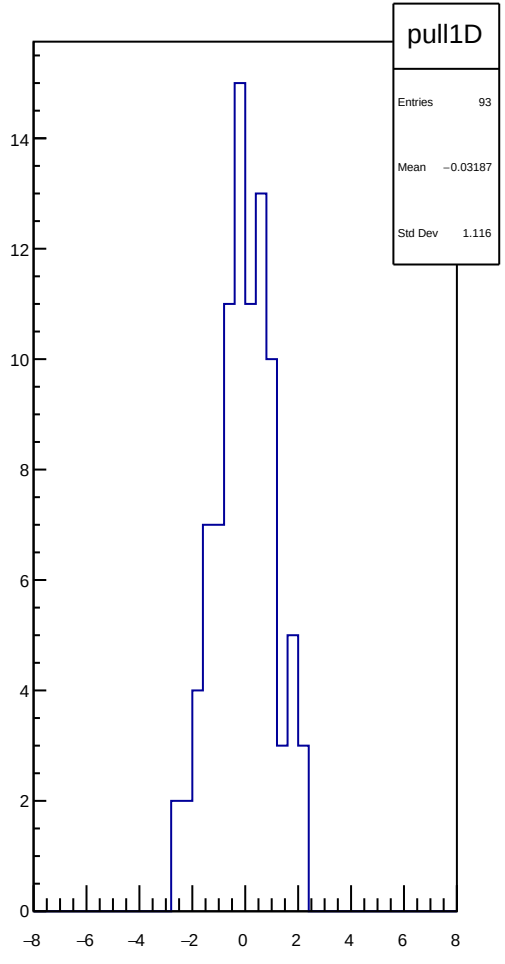

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 2117 / 92
p0 532.4 ± 0.3934
580
560
540
520
500
480

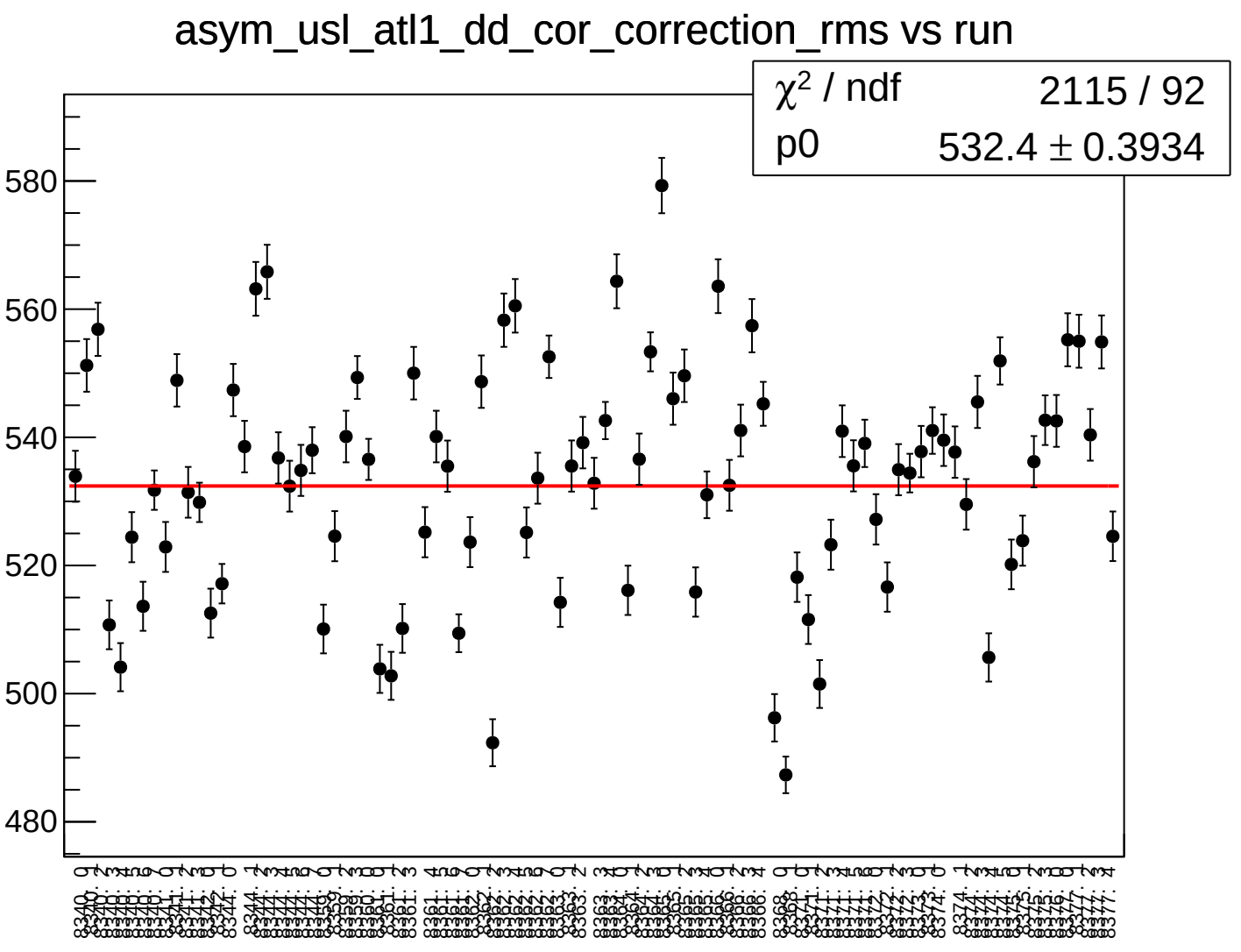

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 119 / 92
p0 −714.7 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −6880
Std Dev 0
3
2
1
0
−1
−2

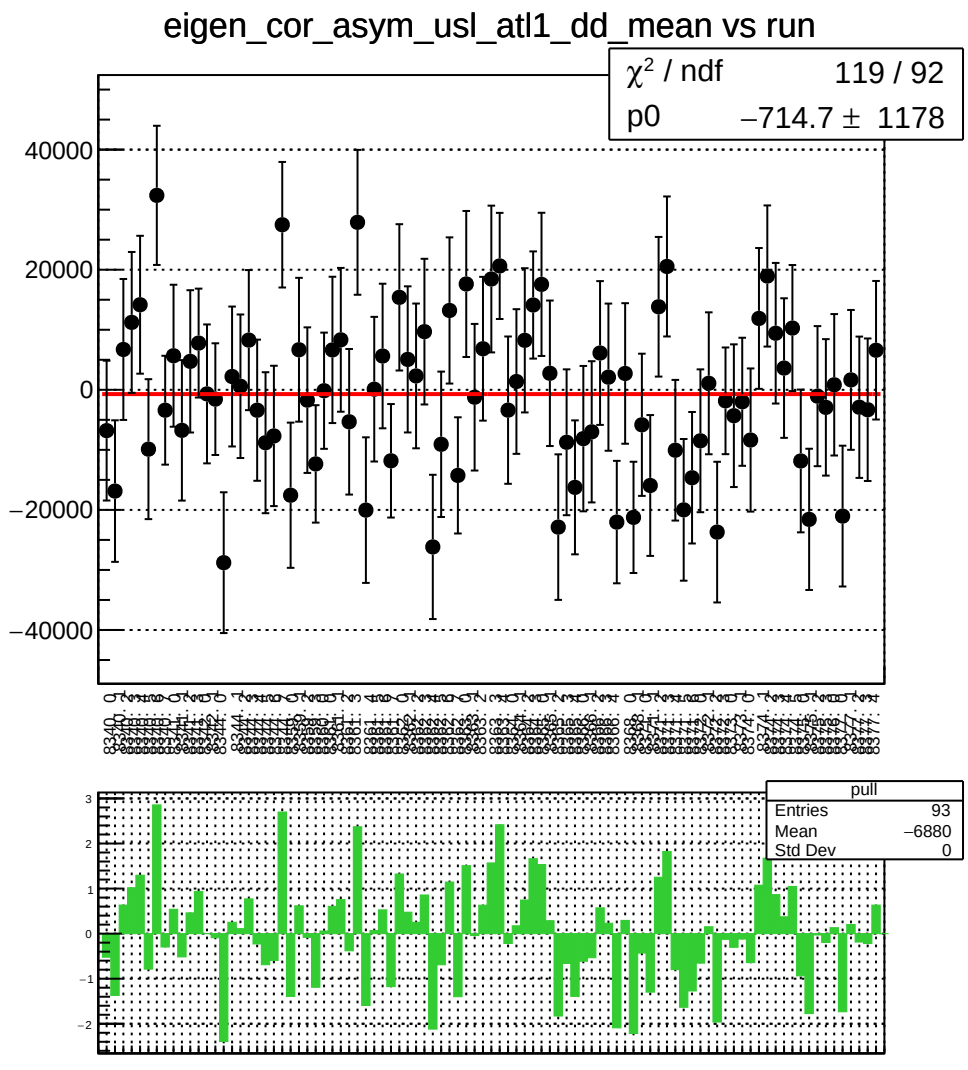

pull1D
Entries 93
Mean 0.0005583
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

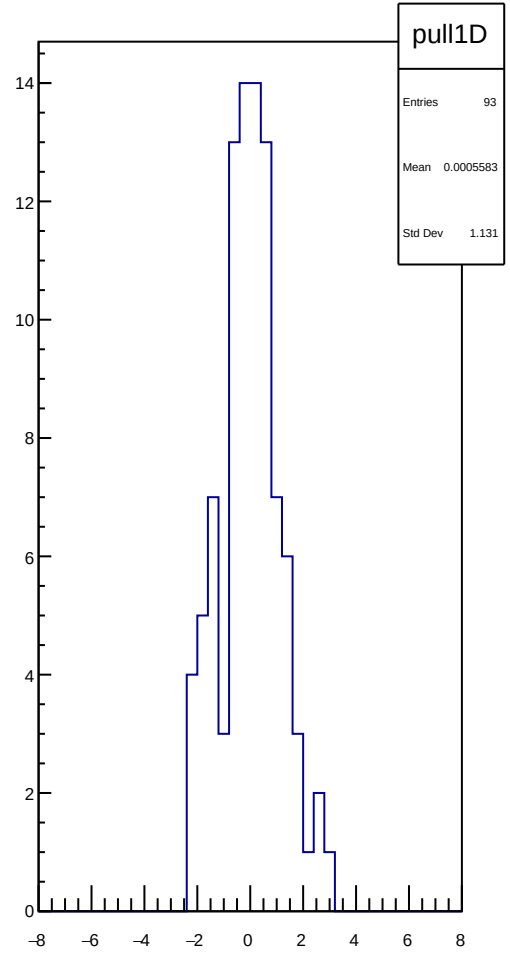

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 529.8 / 92
p0 1128 ± 0.8329
1180
1160
1140
1120
1100
1080

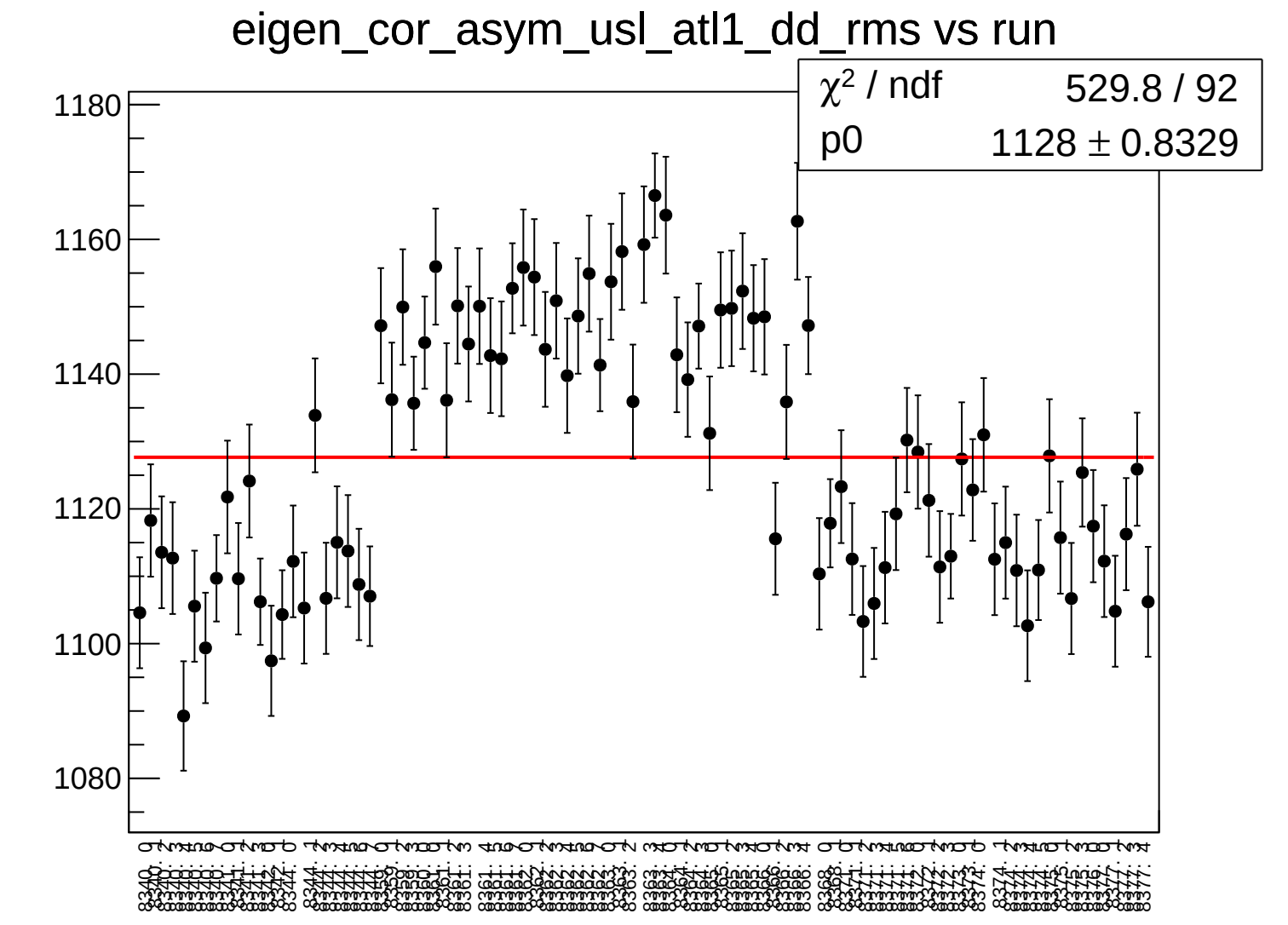

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −3055 ± 556.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −134.3
Std Dev 0
2
1
0
−1
−2

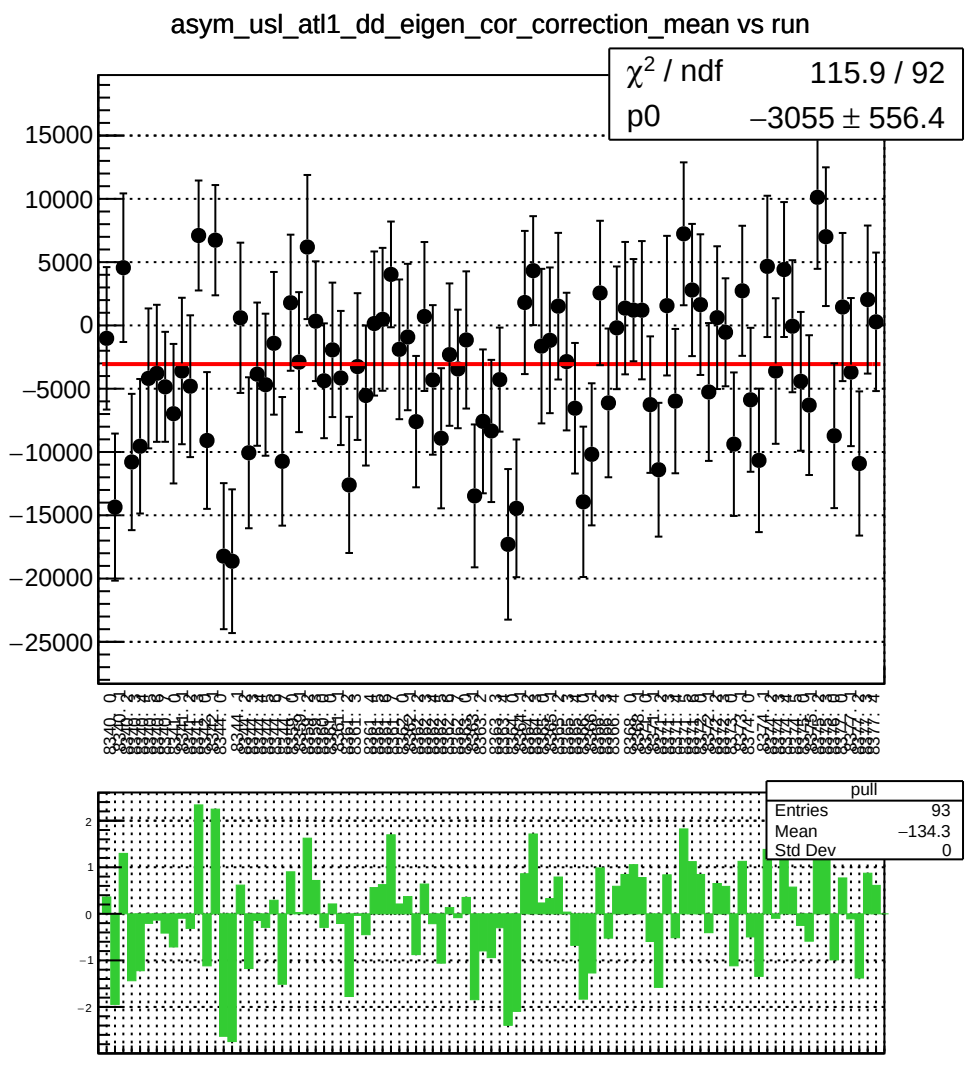

pull1D
Entries 93
Mean −0.03187
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

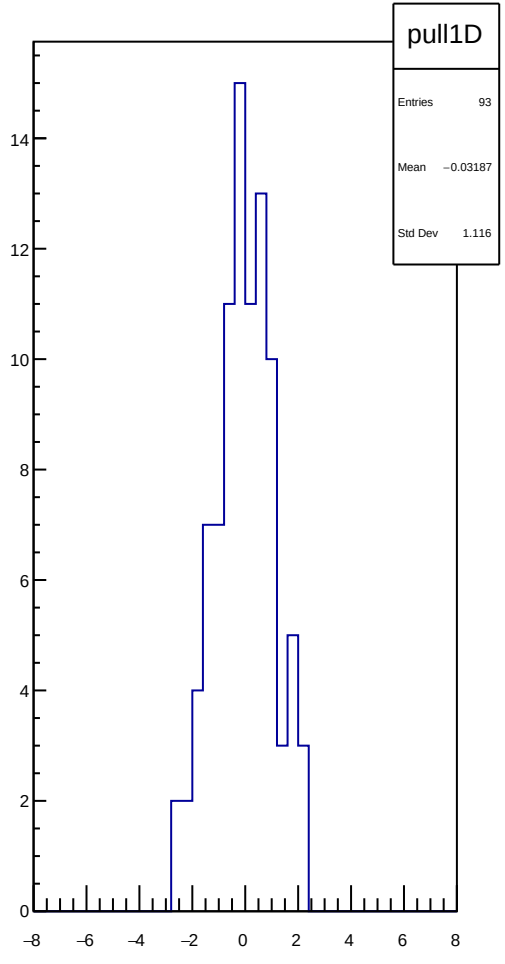

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 2115 / 92
p0 532.4 ± 0.3934
580
560
540
520
500
480

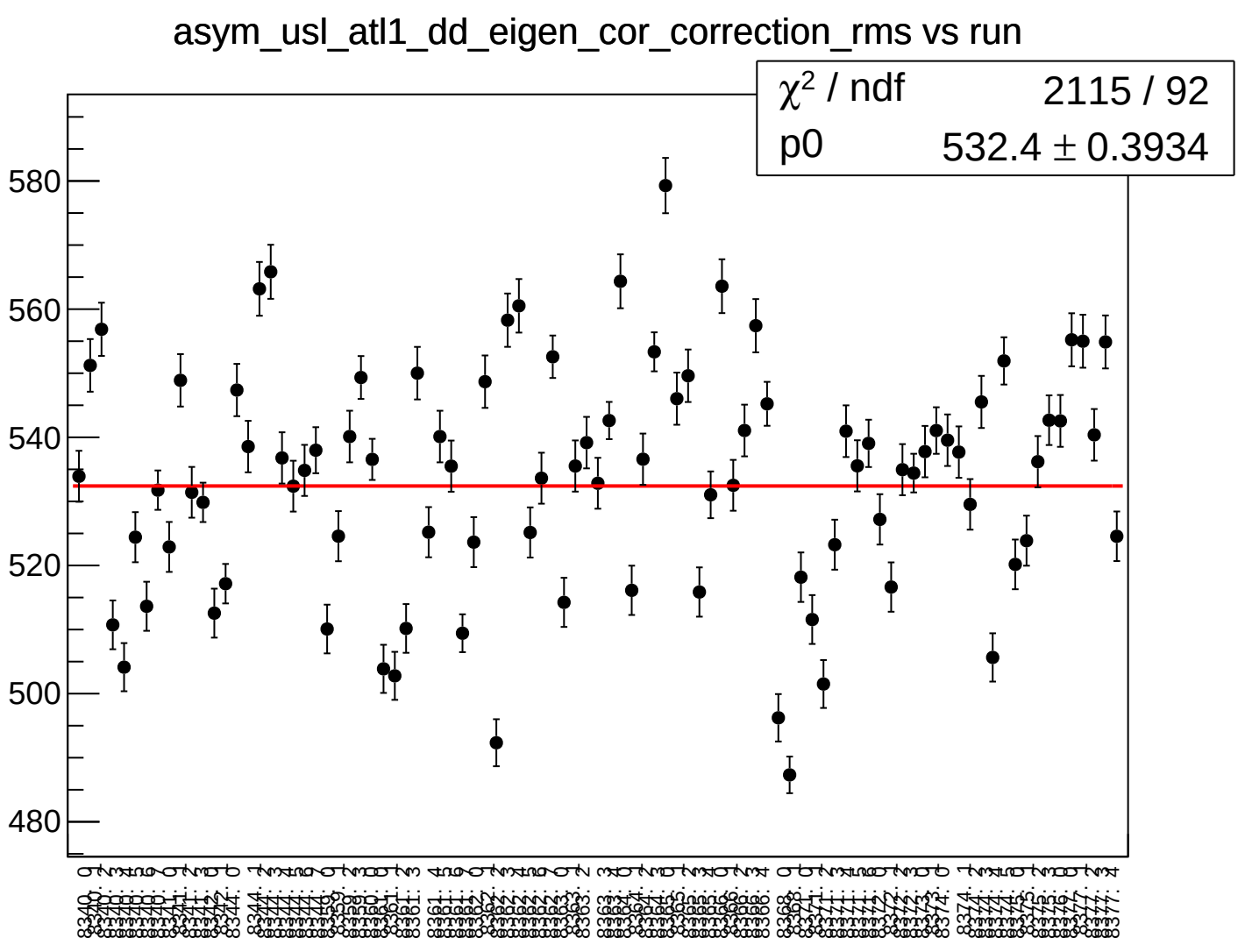

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 119 / 92
p0 −714.7 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −6880
Std Dev 0
3
2
1
0
−1
−2

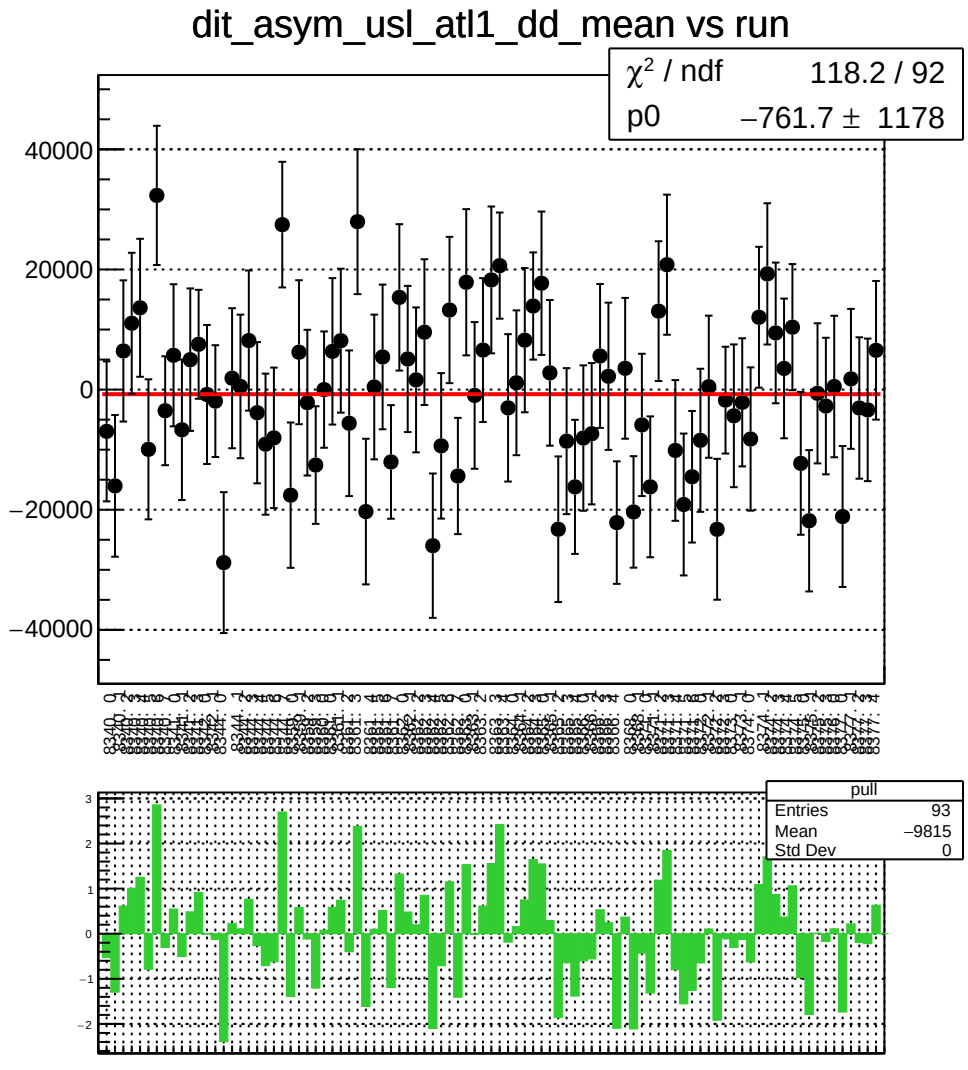

pull1D
Entries 93
Mean 0.0005583
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

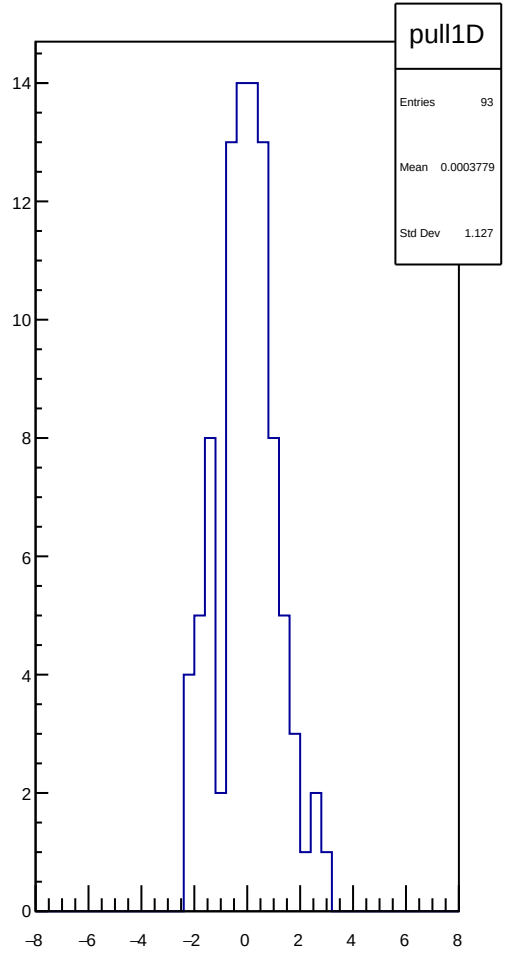

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 529.8 / 92
p0 1128 ± 0.8329
1180
1160
1140
1120
1100
1080

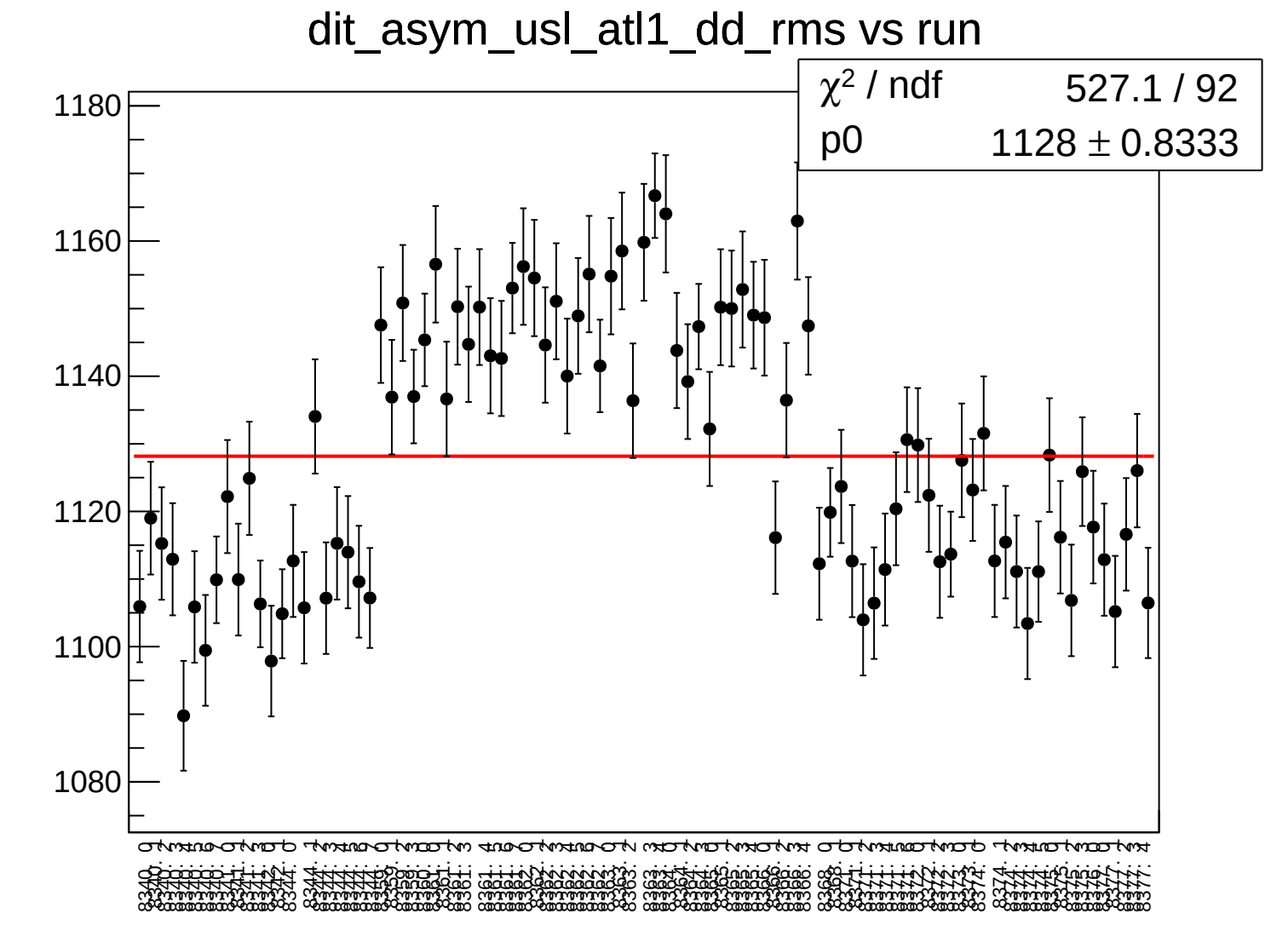

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.9 / 92
p0 −3055 ± 556.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean −134.3
Std Dev 0
2
1
0
−1
−2

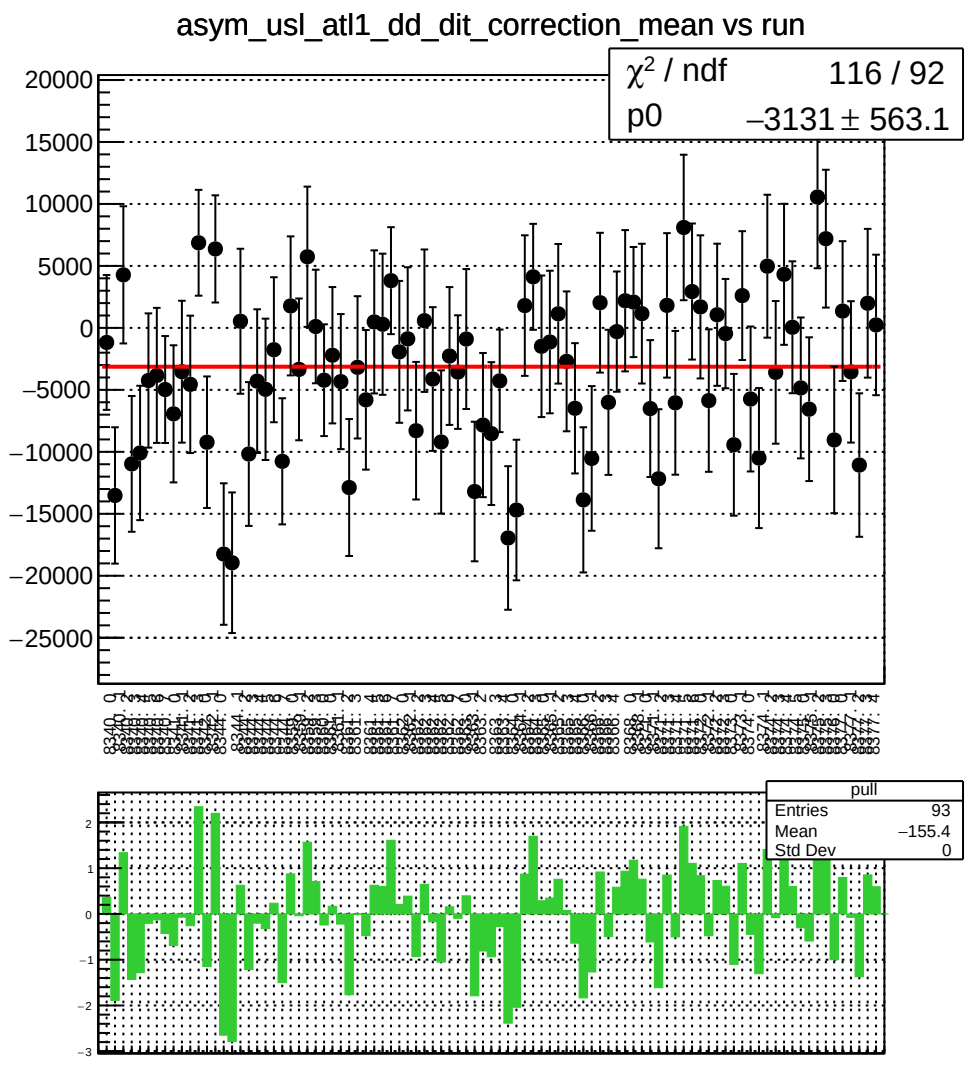

pull1D
Entries 93
Mean −0.03187
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

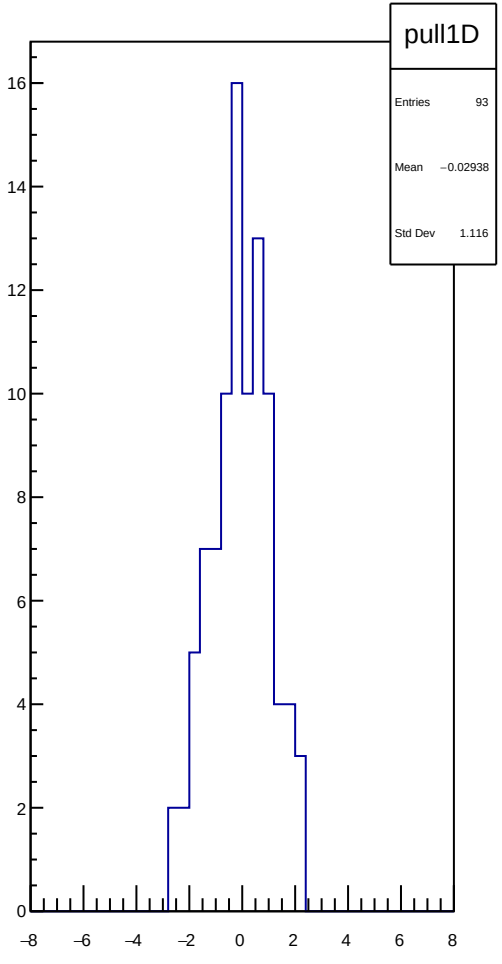

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 2115 / 92
p0 532.4 ± 0.3934
580
560
540
520
500
480

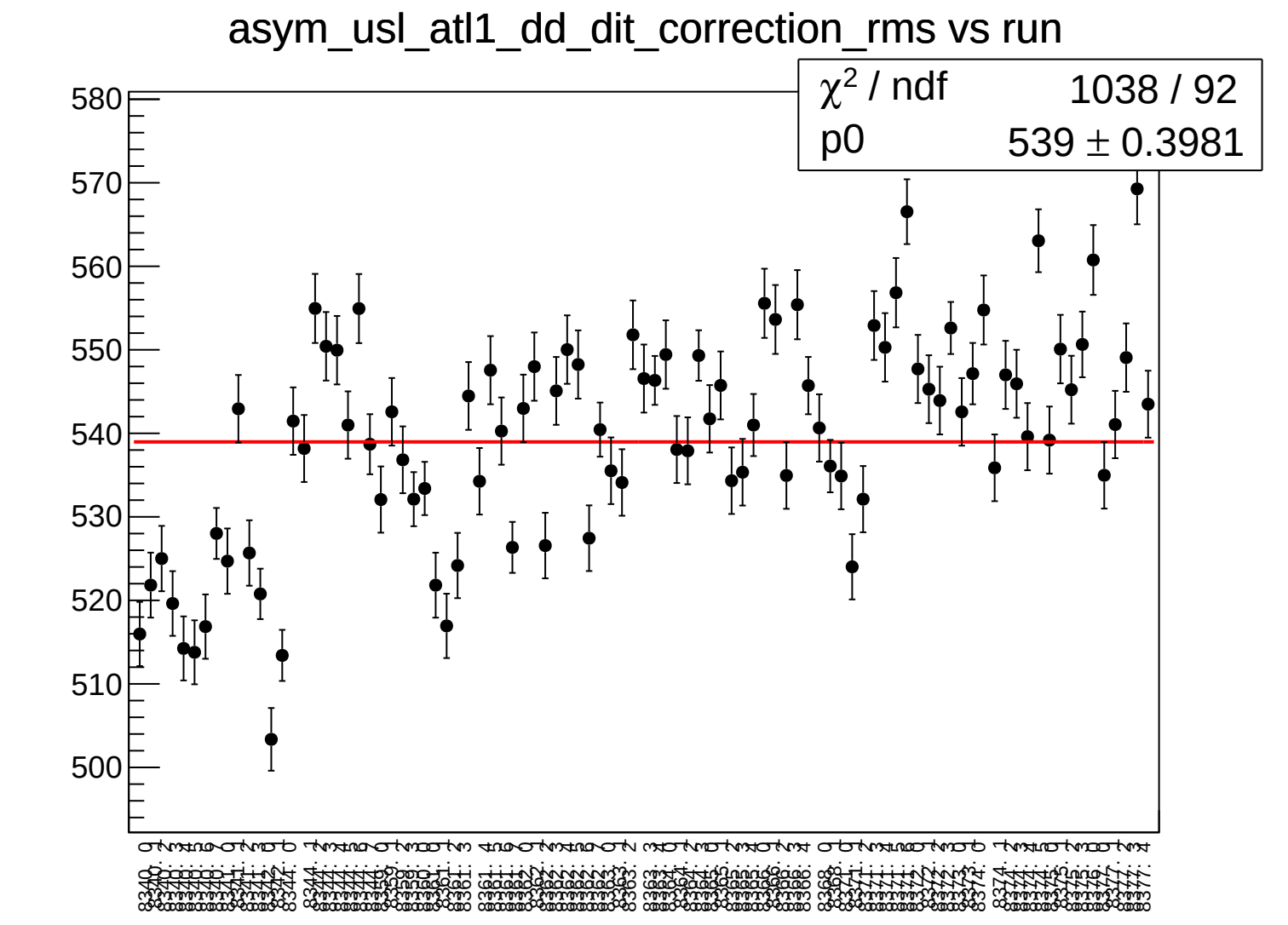

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 118.2 / 92
p0 −761.7 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −9815
Std Dev 0
3
2
1
0
−1
−2

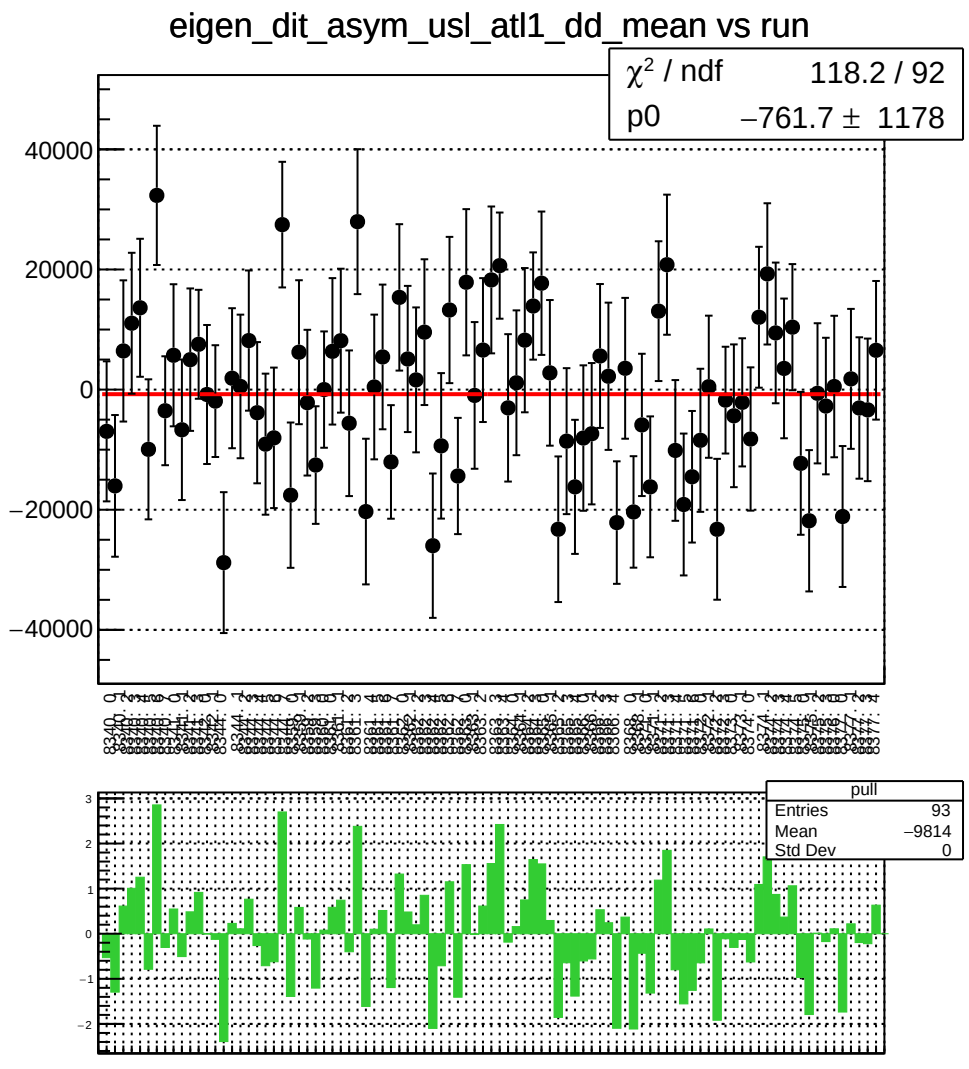

pull1D
Entries 93
Mean 0.0003779
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

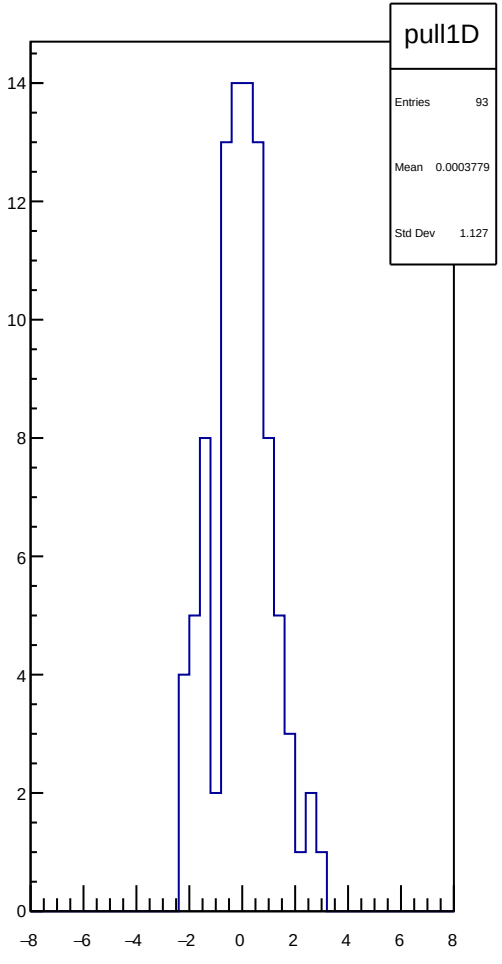

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 527.1 / 92
p0 1128 ± 0.8333
1180
1160
1140
1120
1100
1080

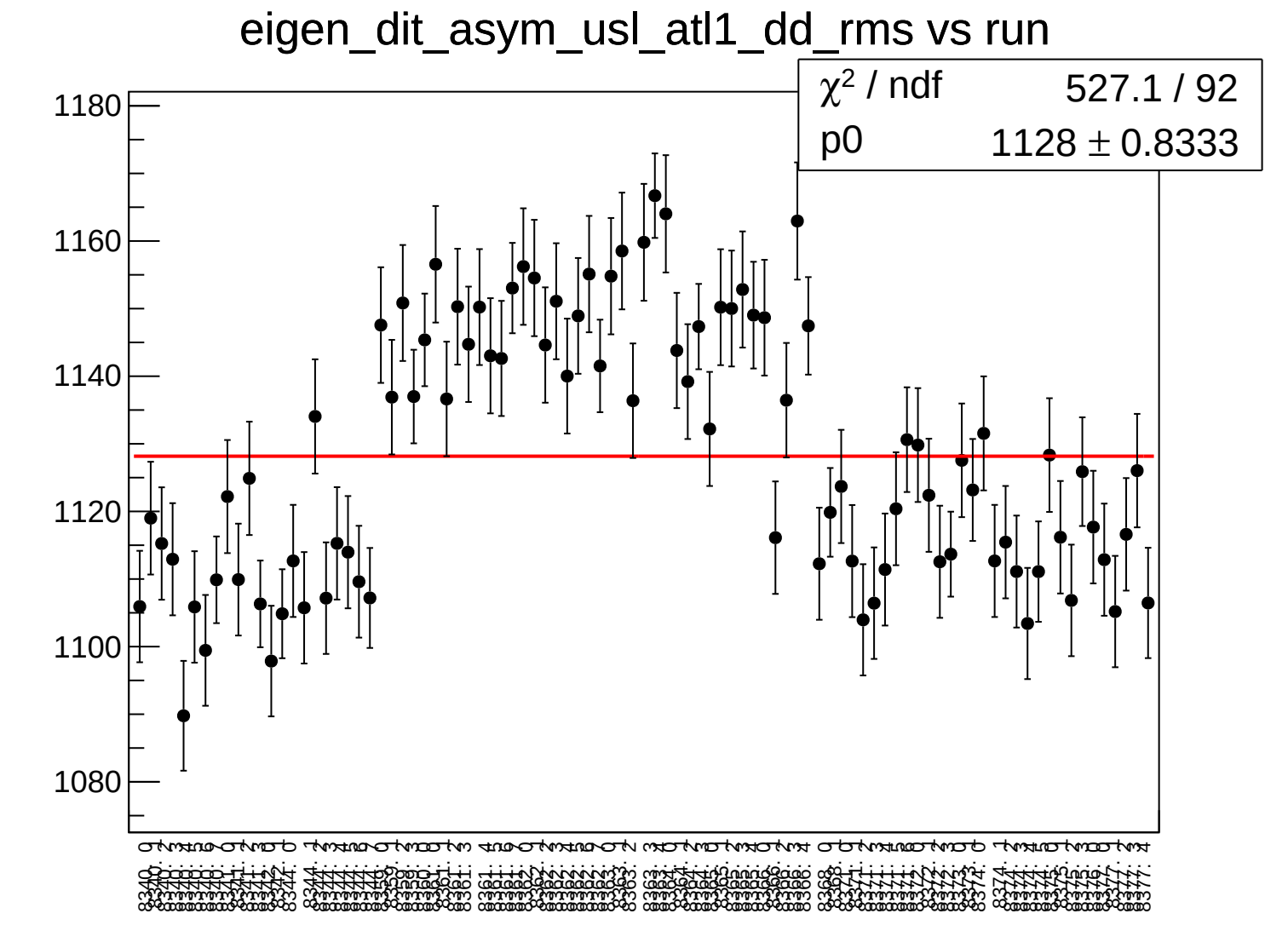

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 −3131 ± 563.1
pull
Entries 93
Mean −155.4
Std Dev 0

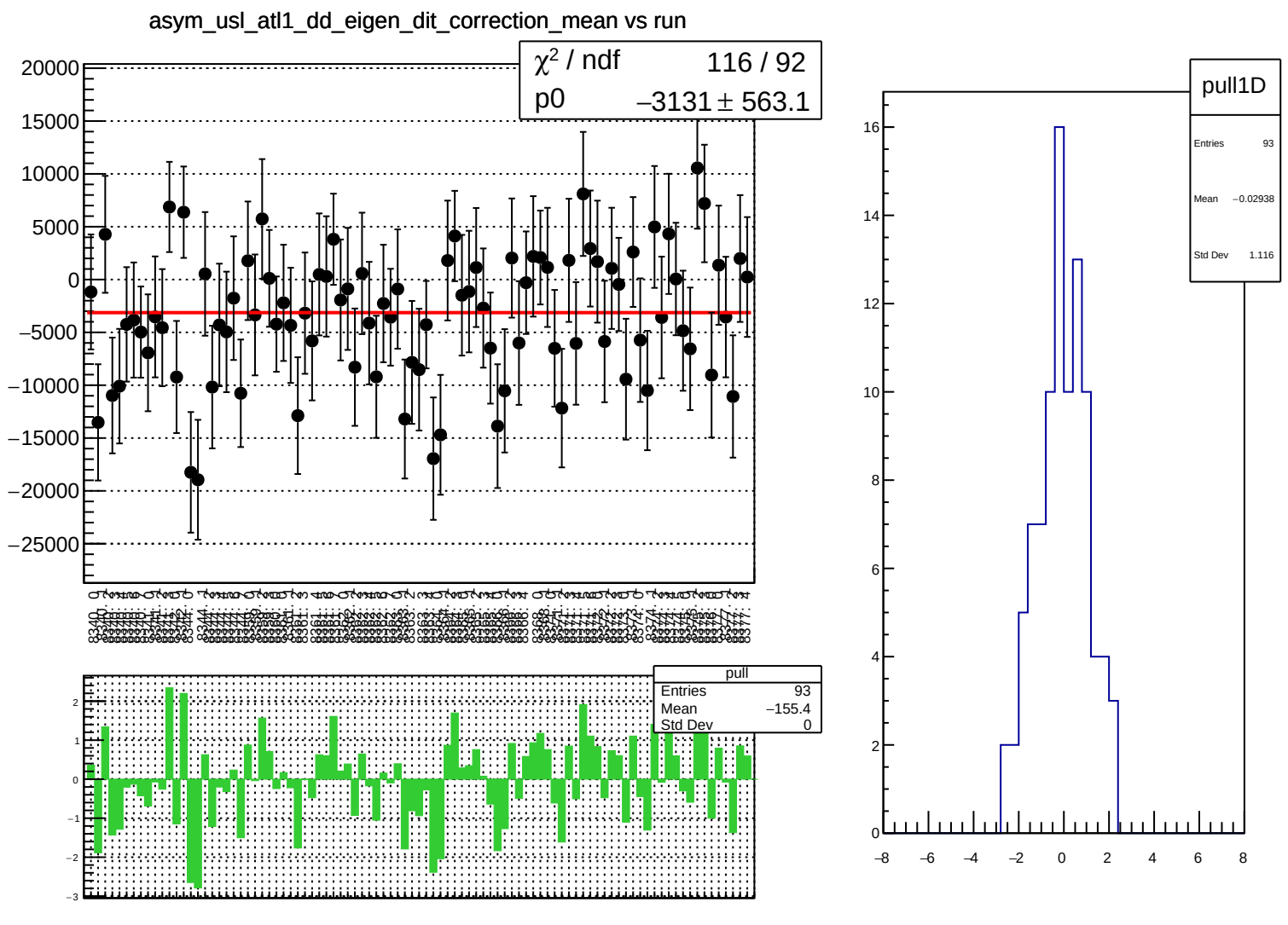

pull1D
Entries 93
Mean −0.02938
Std Dev 1.116

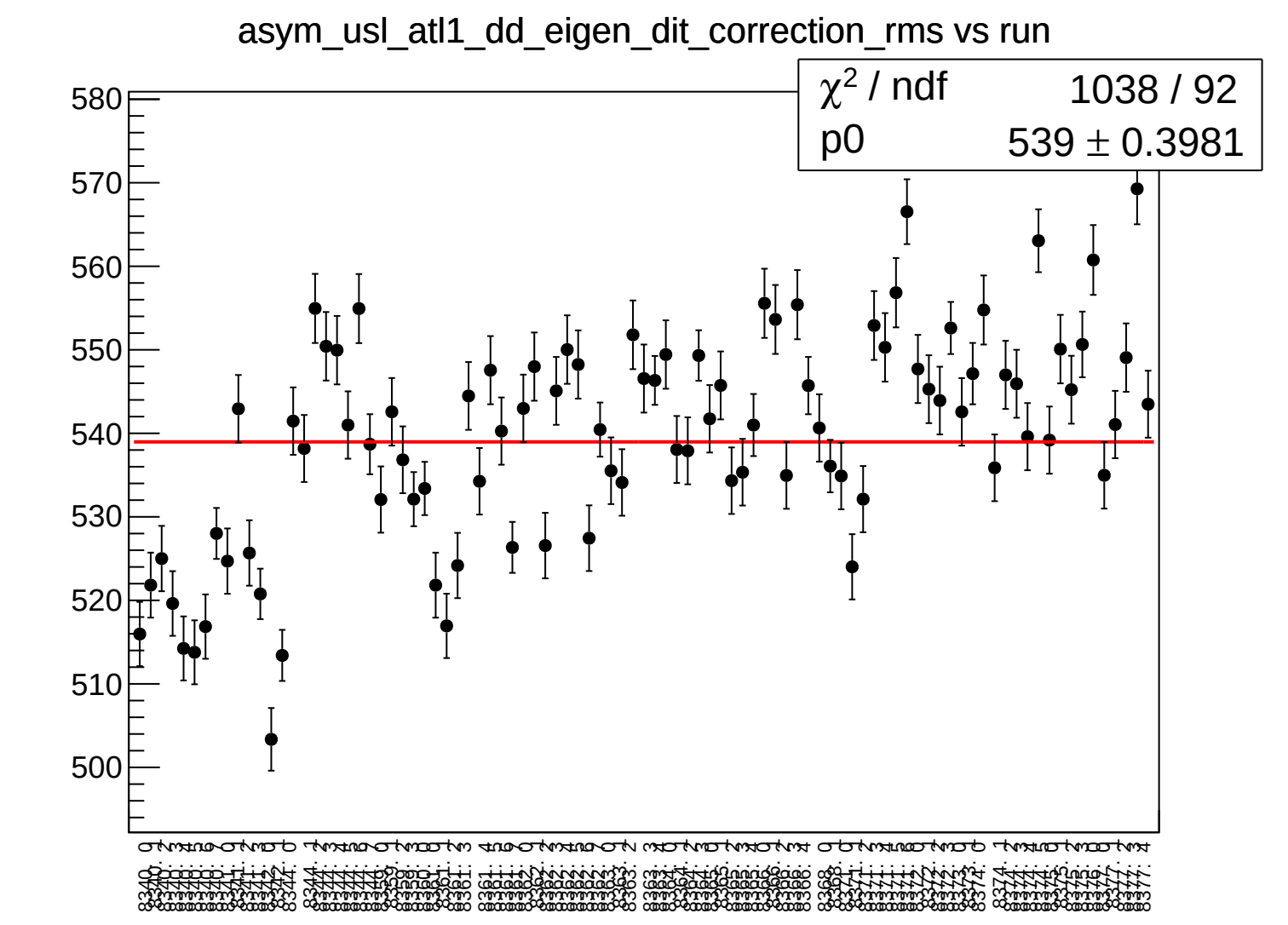

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1038 / 92
p0 539 ± 0.3981
580
570
560
550
540
530
520
510
500

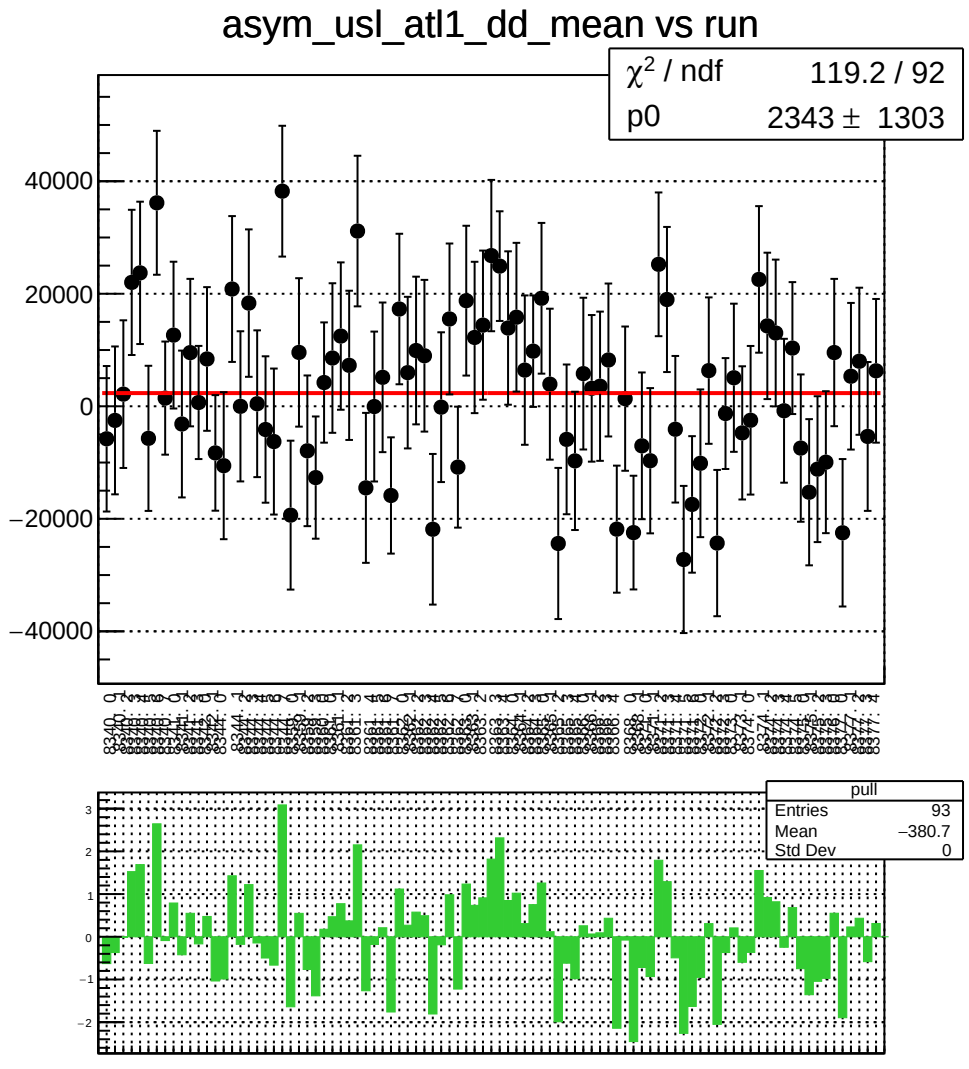

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 118.2 / 92
p0 −761.7 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −9814
Std Dev 0
3
2
1
0
−1
−2

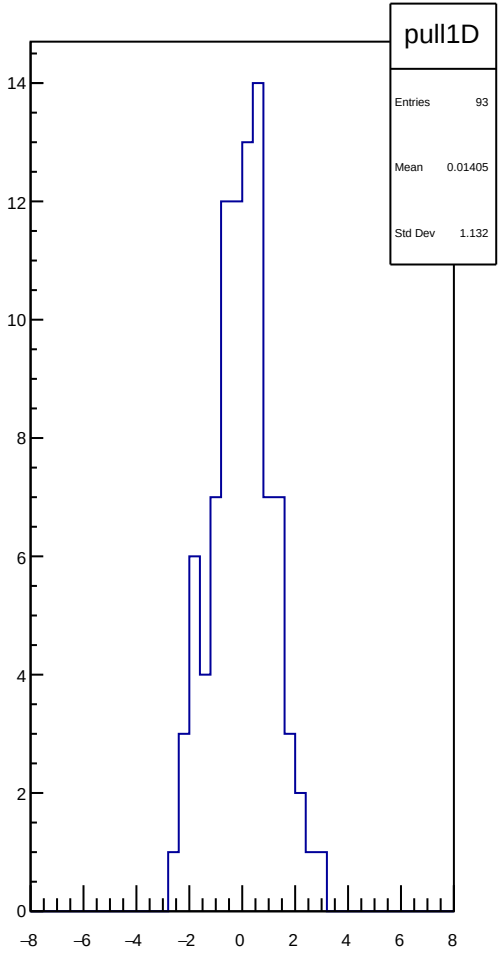

pull1D
Entries 93
Mean 0.0003779
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

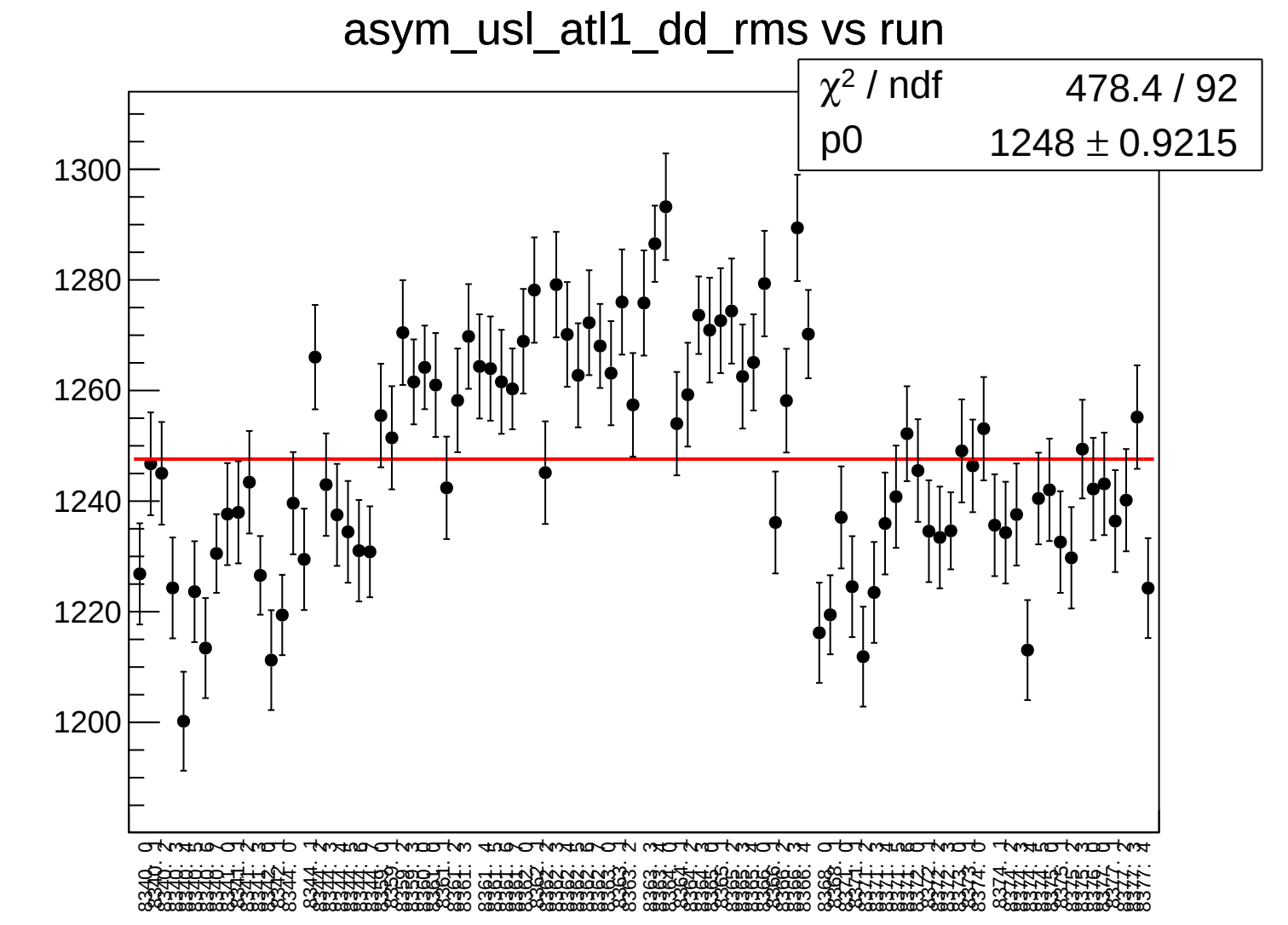

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 527.1 / 92
p0 1128 ± 0.8333
1180
1160
1140
1120
1100
1080

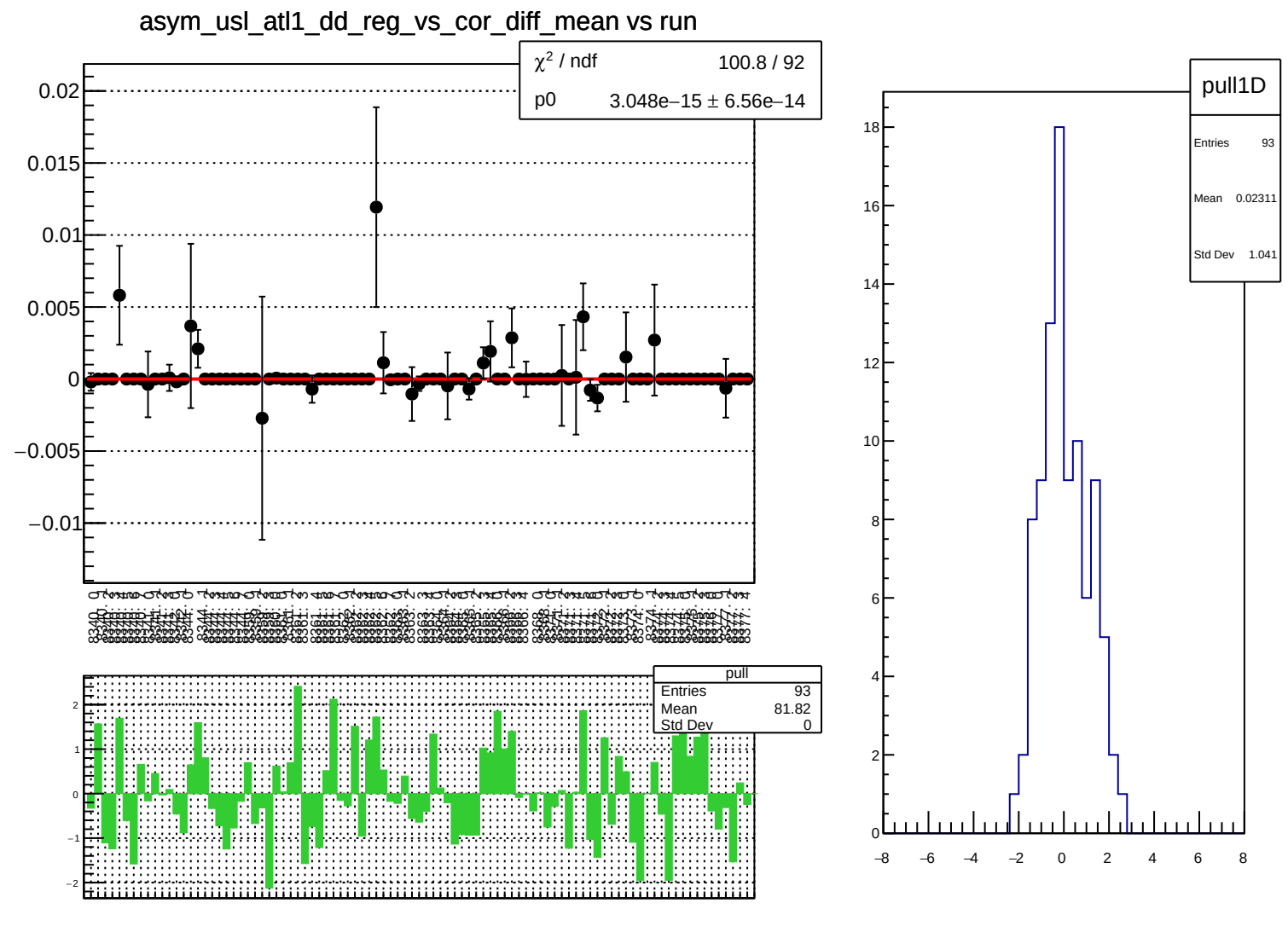

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 116 / 92
p0 −3131 ± 563.1
pull
Entries 93
Mean −155.4
Std Dev 0
pull1D
Entries 93
Mean −0.02938
Std Dev 1.116

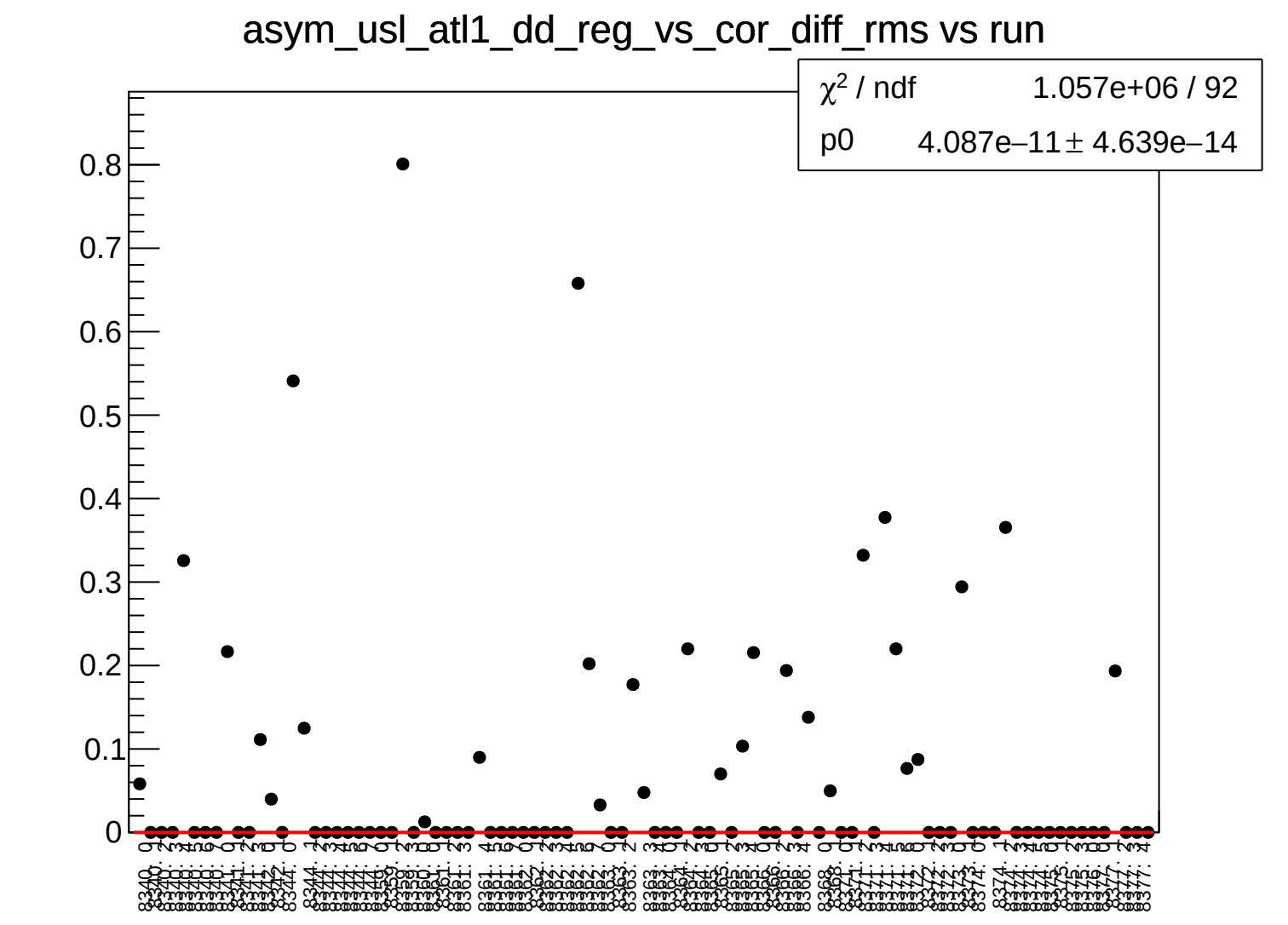

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1038 / 92
p0 539 ± 0.3981
580
570
560
550
540
530
520
510
500

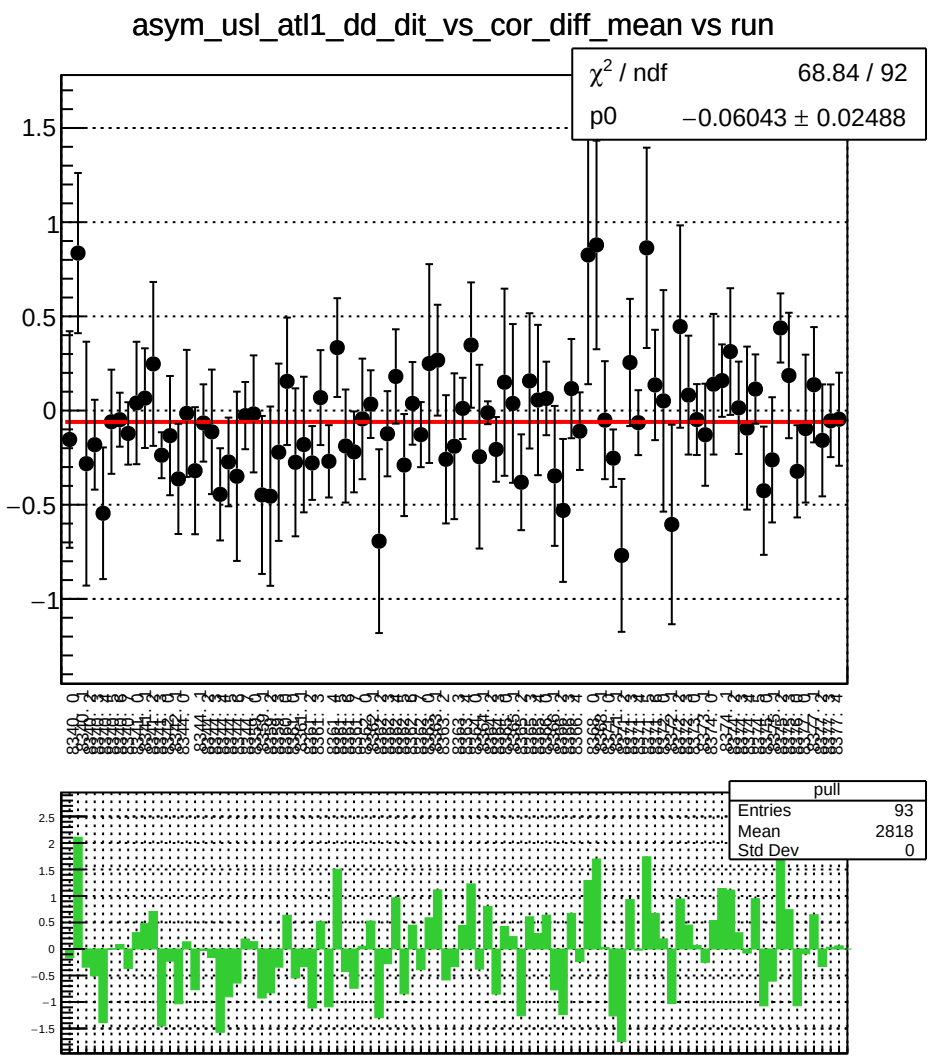

asym_usl_atl1_dd_mean vs run
χ² / ndf 119.2 / 92
p0 2343 ± 1303
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −380.7
Std Dev 0
3
2
1
0
−1
−2

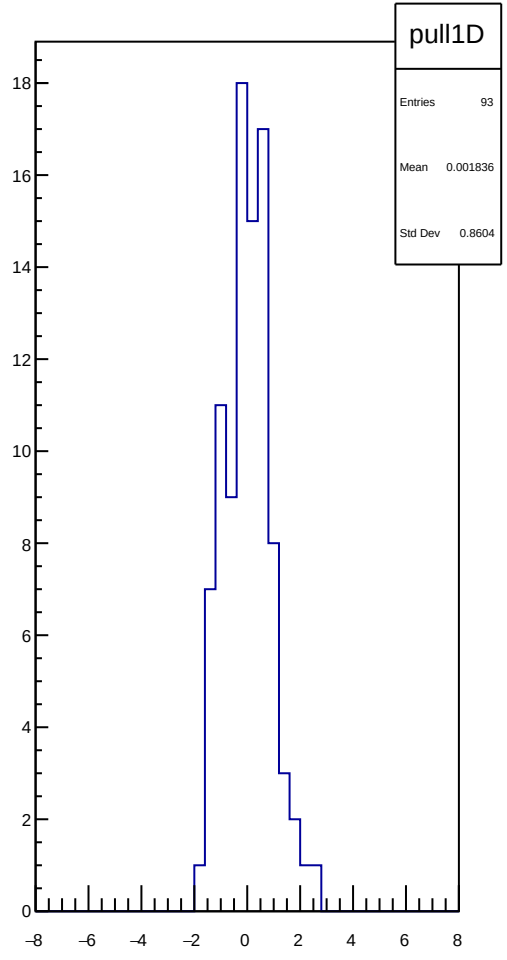

pull1D
Entries 93
Mean 0.01405
Std Dev 1.132
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

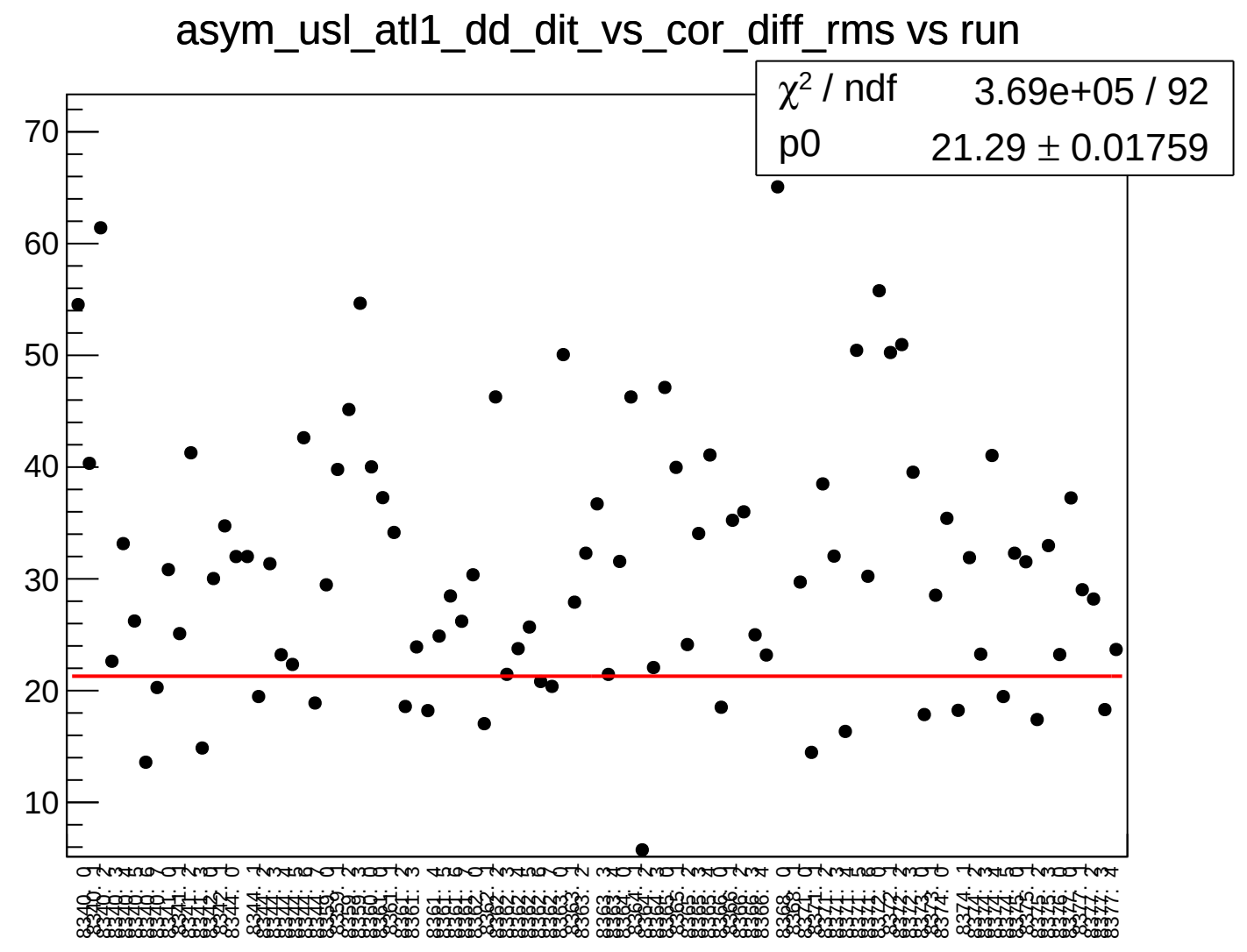

asym_usl_atl1_dd_rms vs run
χ² / ndf 478.4 / 92
p0 1248 ± 0.9215
1300
1280
1260
1240
1220
1200

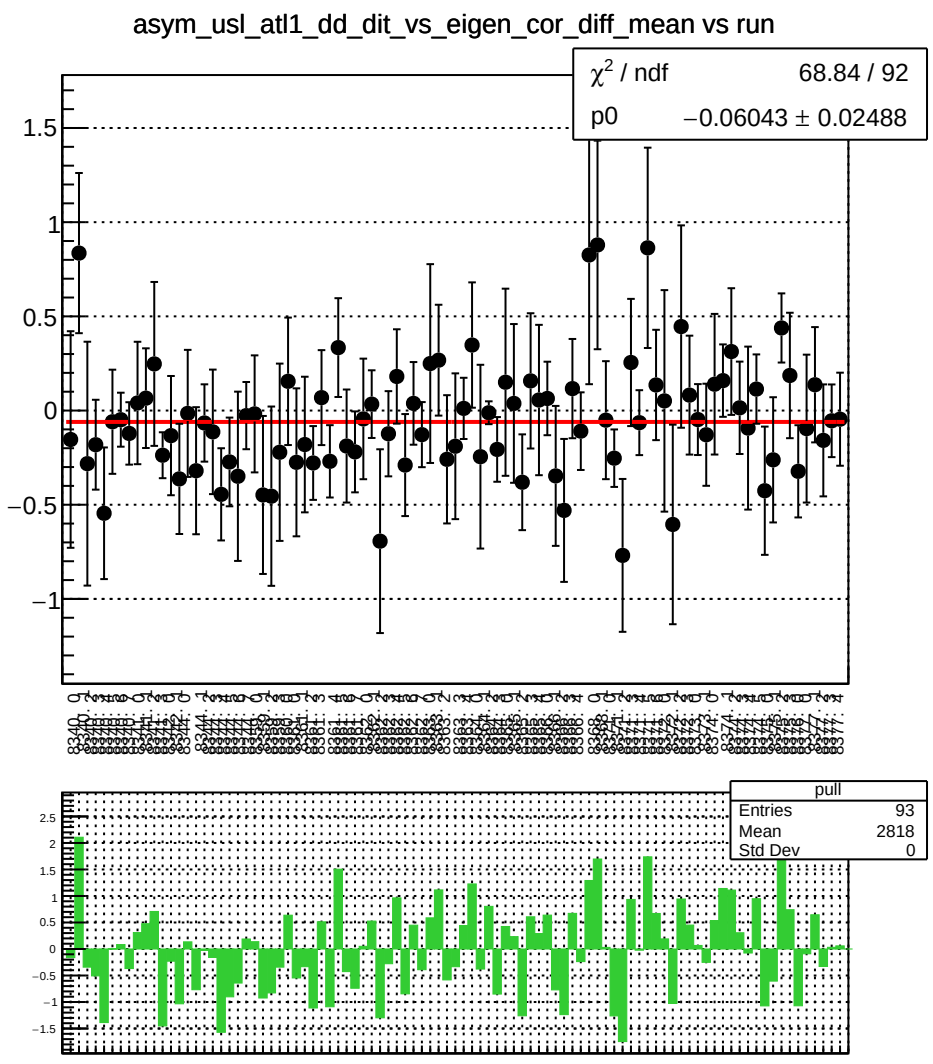

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 92
p0 3.048e−15 ± 6.56e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean 81.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02311
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

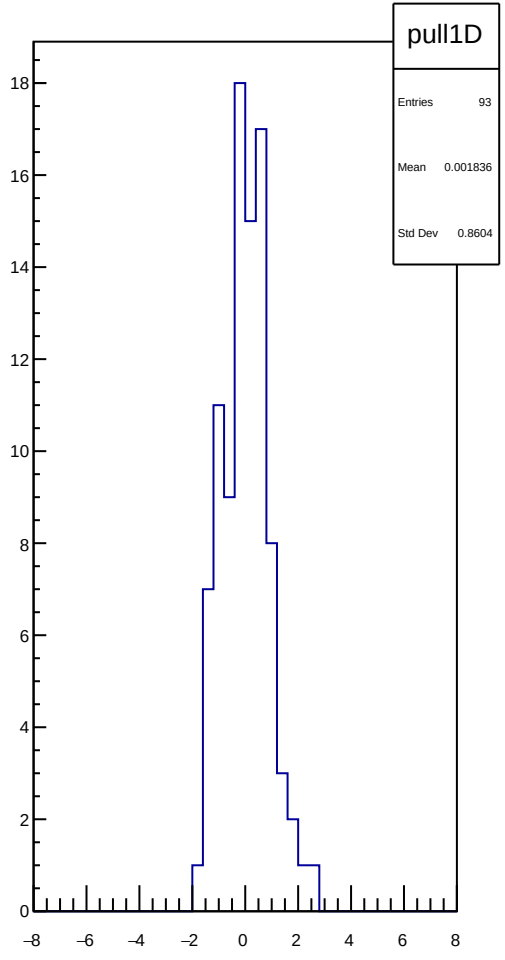

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 92
p0 4.087e−11 ± 4.639e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

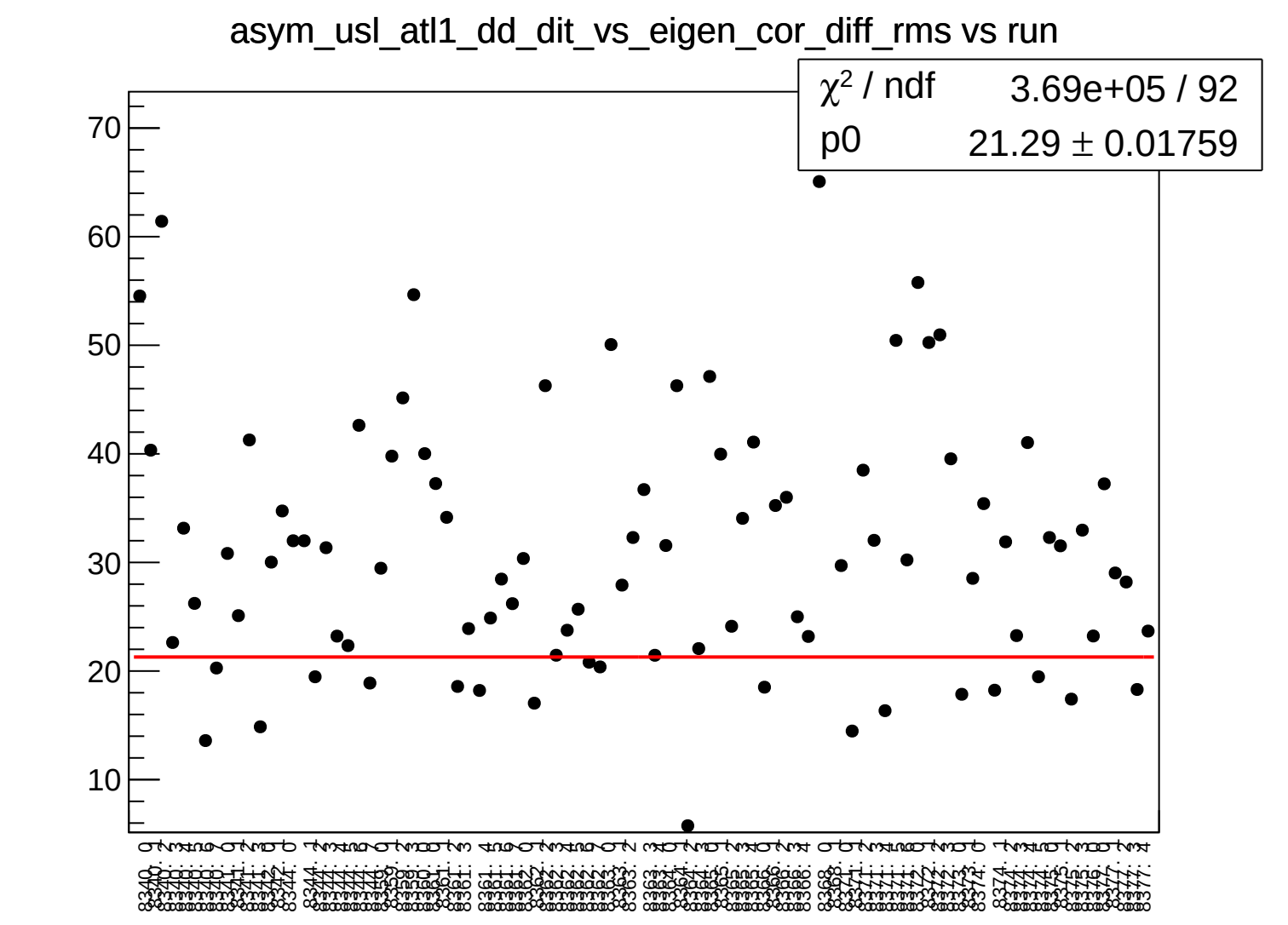

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 68.84 / 92
p0 −0.06043 ± 0.02488
pull
Entries 93
Mean 2818
Std Dev 0

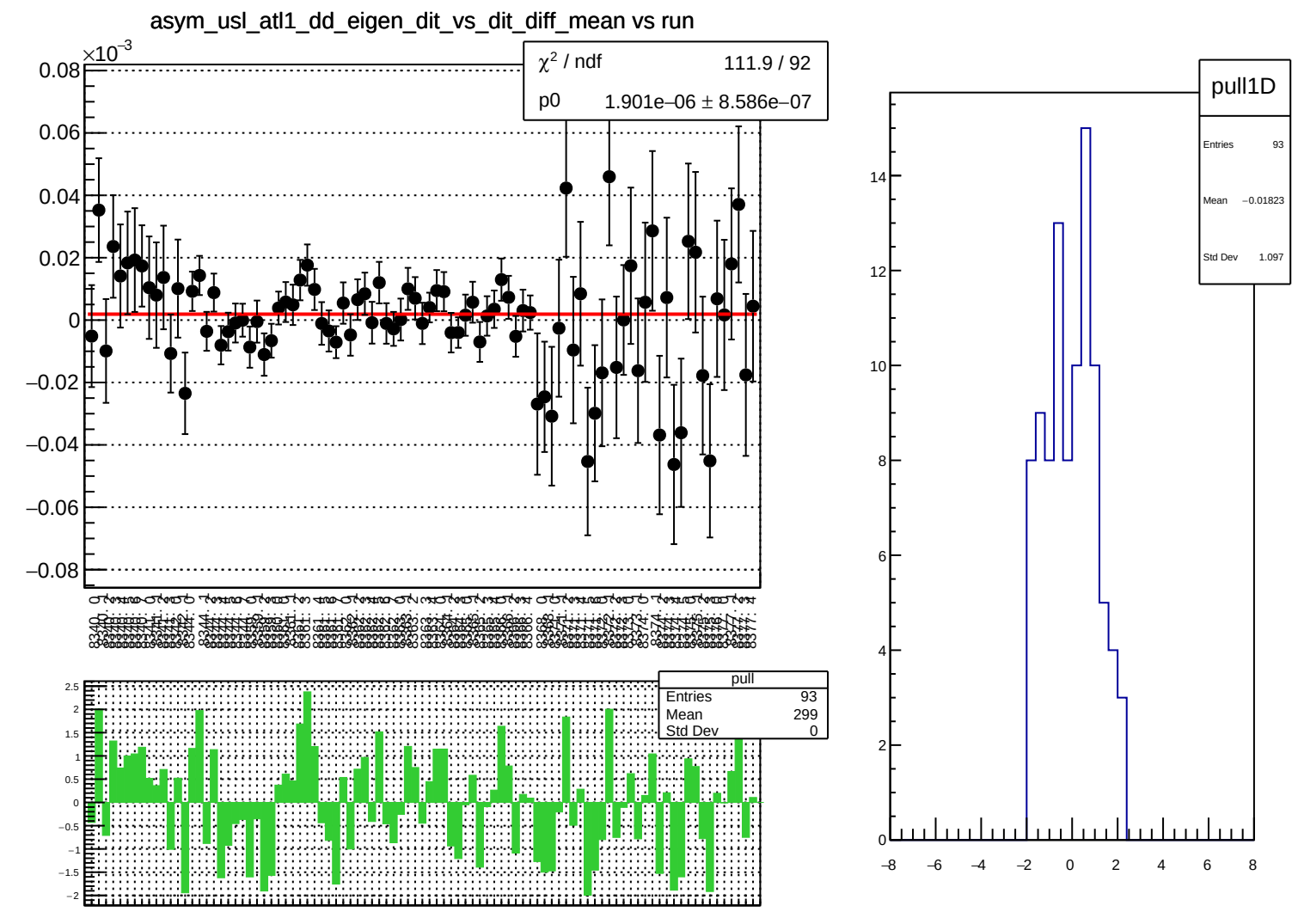

pull1D
Entries 93
Mean 0.001836
Std Dev 0.8604

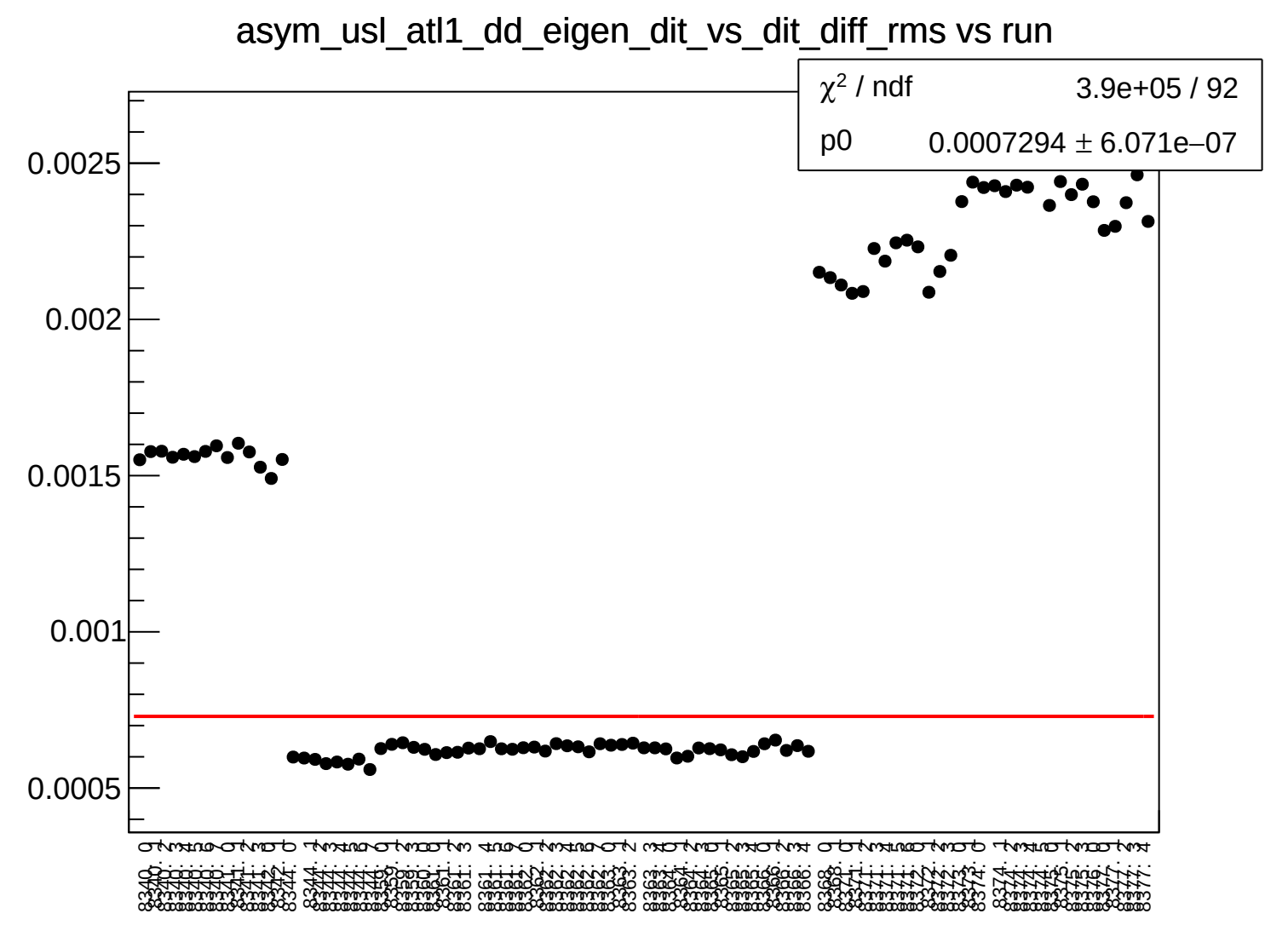

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.69e+05 / 92
p0 21.29 ± 0.01759
70
60
50
40
30
20
10

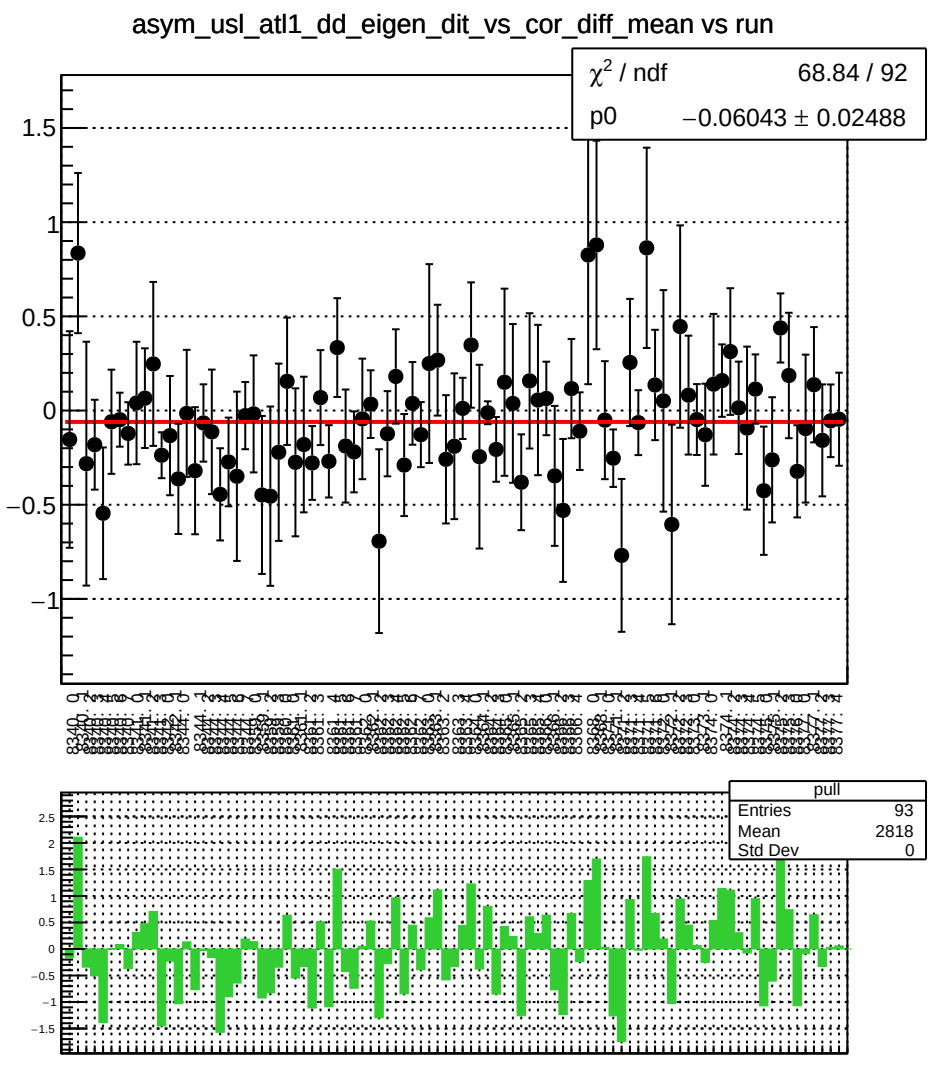

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.84 / 92
p0 −0.06043 ± 0.02488
pull
Entries 93
Mean 2818
Std Dev 0

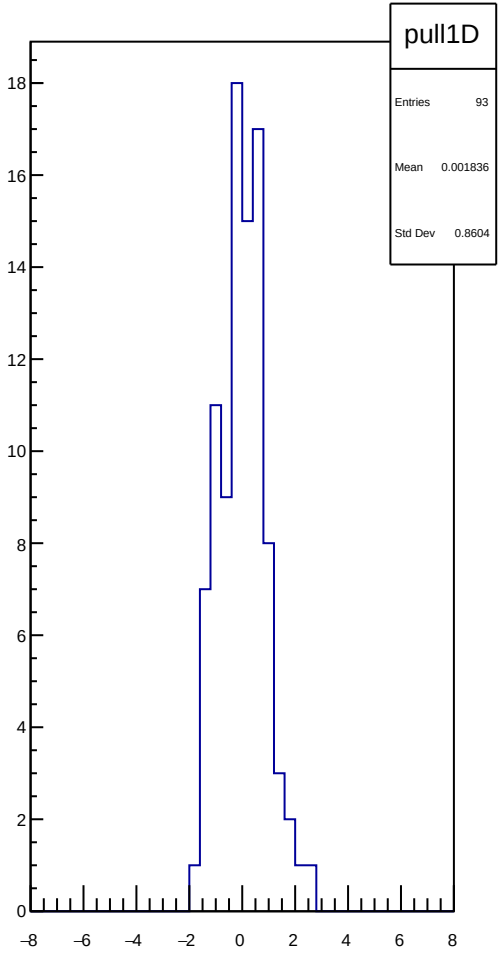

pull1D
Entries 93
Mean 0.001836
Std Dev 0.8604

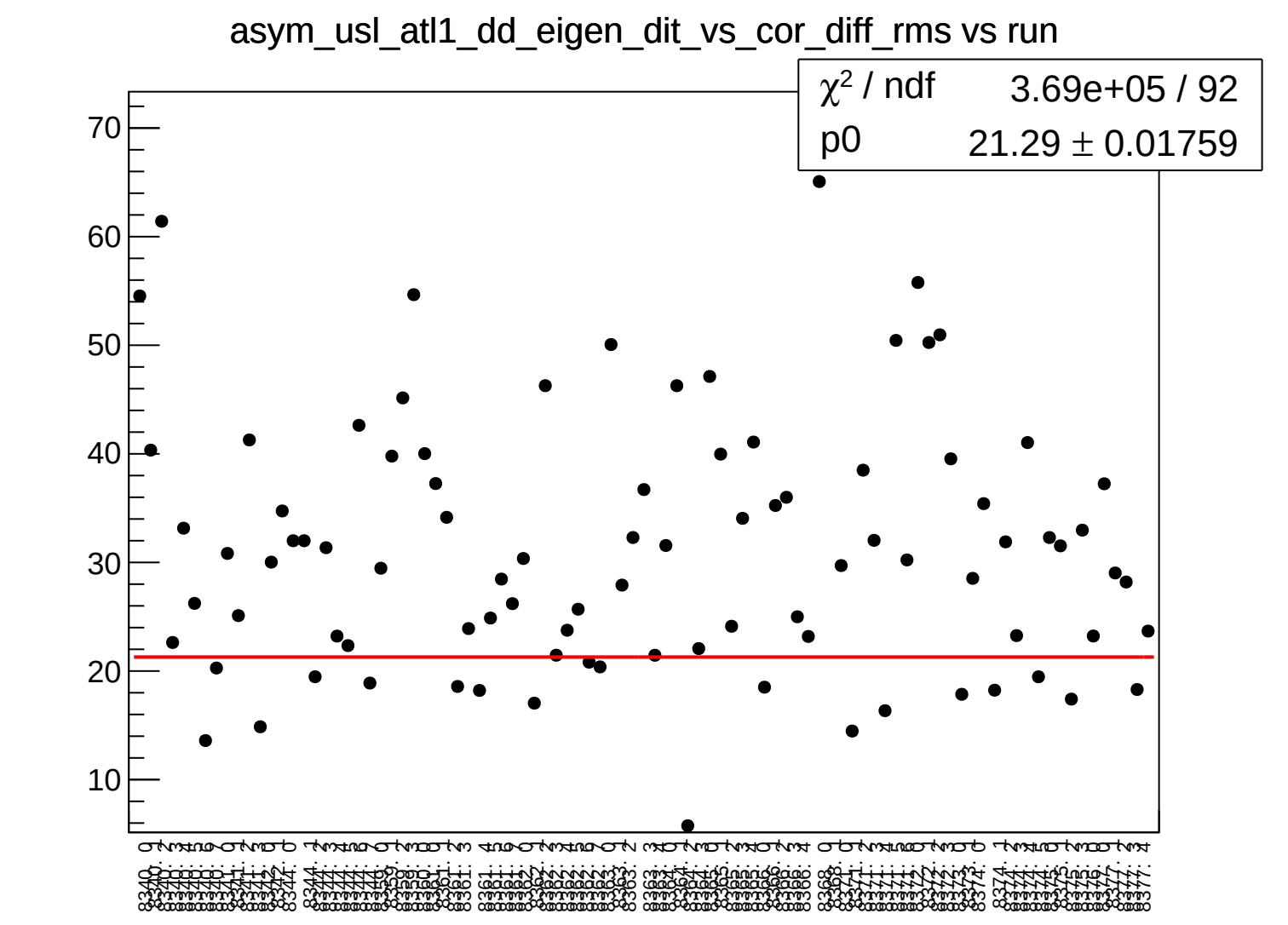

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.69e+05 / 92
p0 21.29 ± 0.01759
70
60
50
40
30
20
10

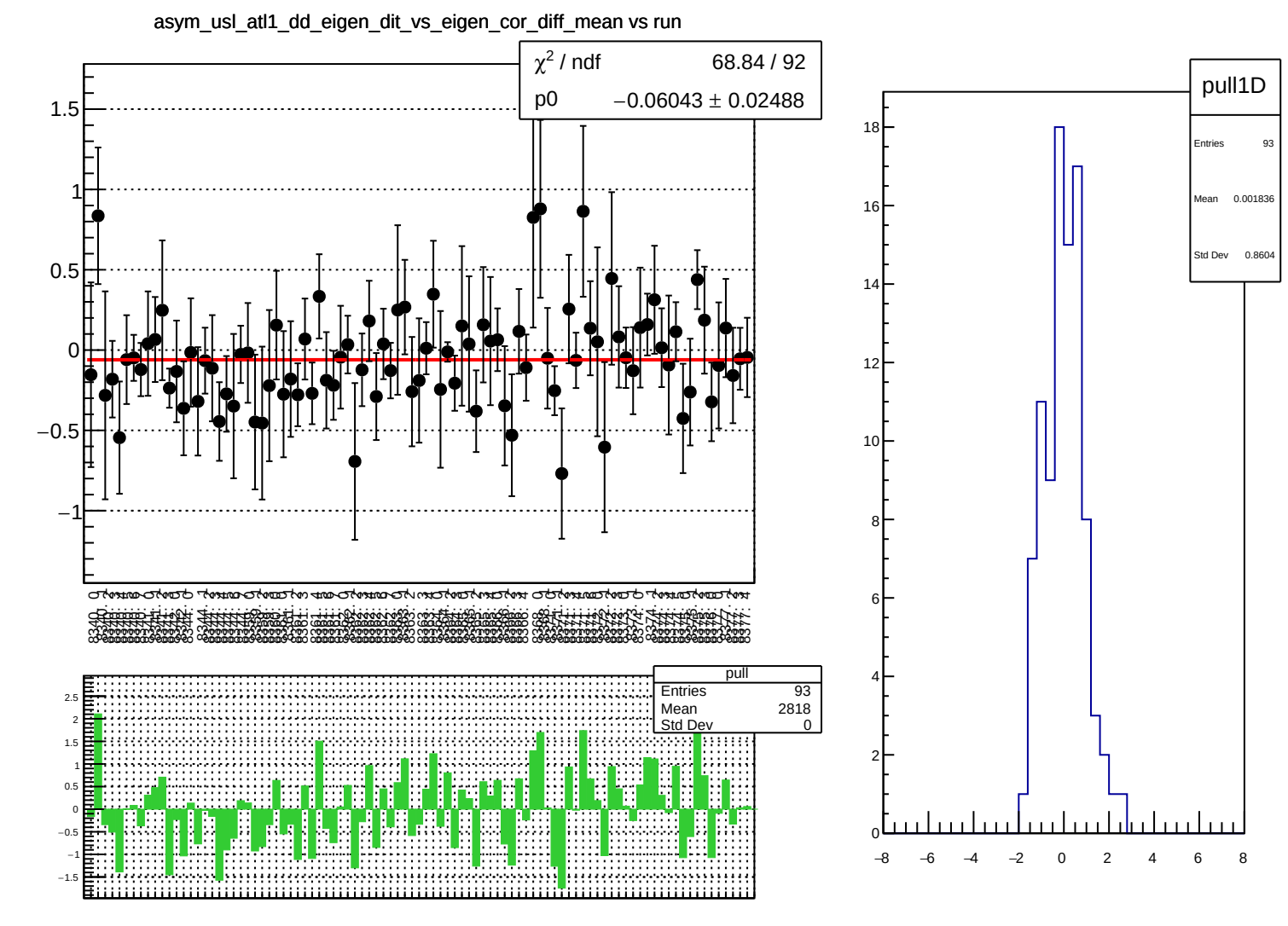

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.9 / 92
p0 1.901e−06 ± 8.586e−07
pull
Entries 93
Mean 299
Std Dev 0
pull1D
Entries 93
Mean −0.01823
Std Dev 1.097

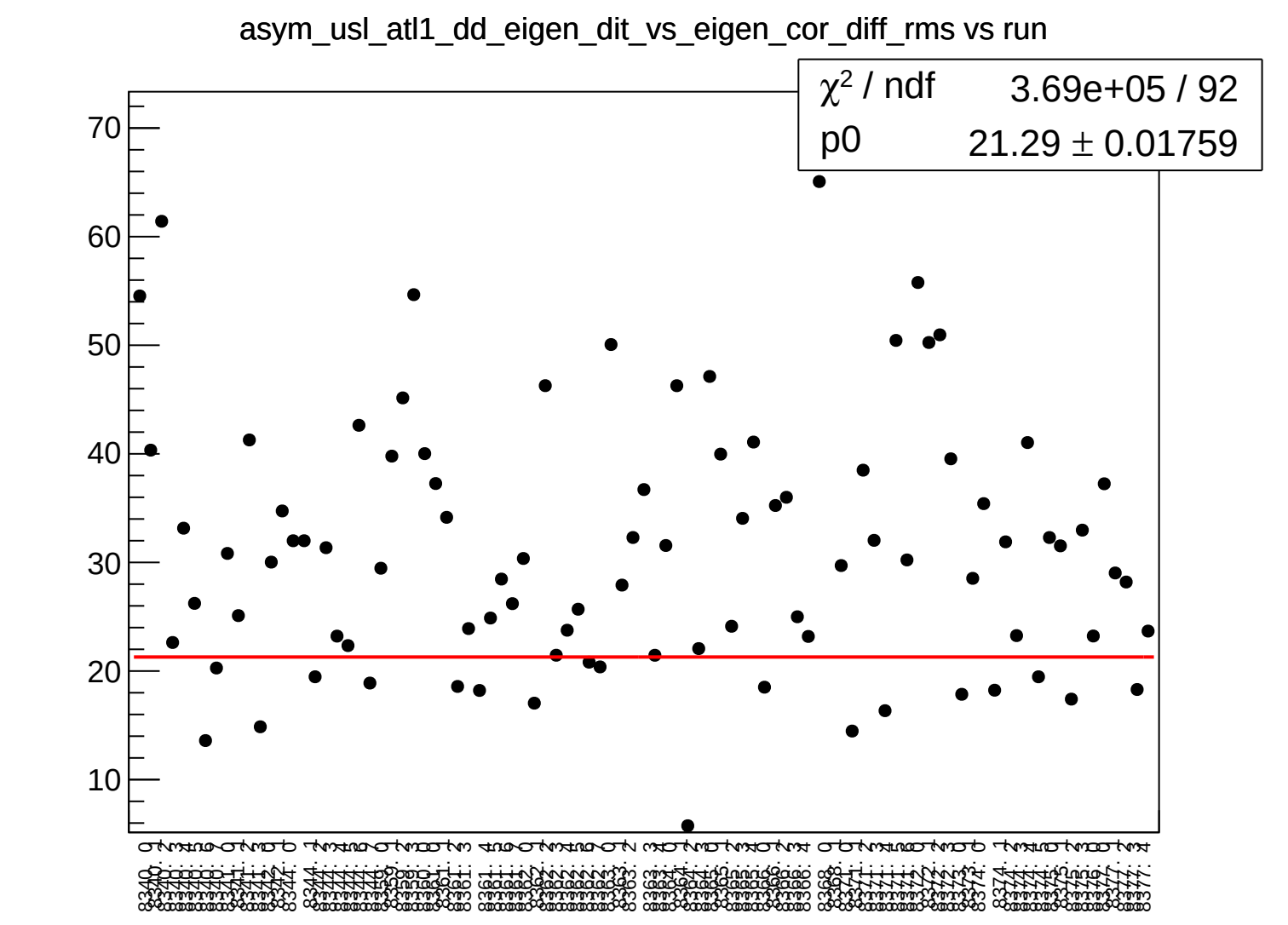

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.9e+05 / 92
p0 0.0007294 ± 6.071e−07
0.0025
0.002
0.0015
0.001
0.0005

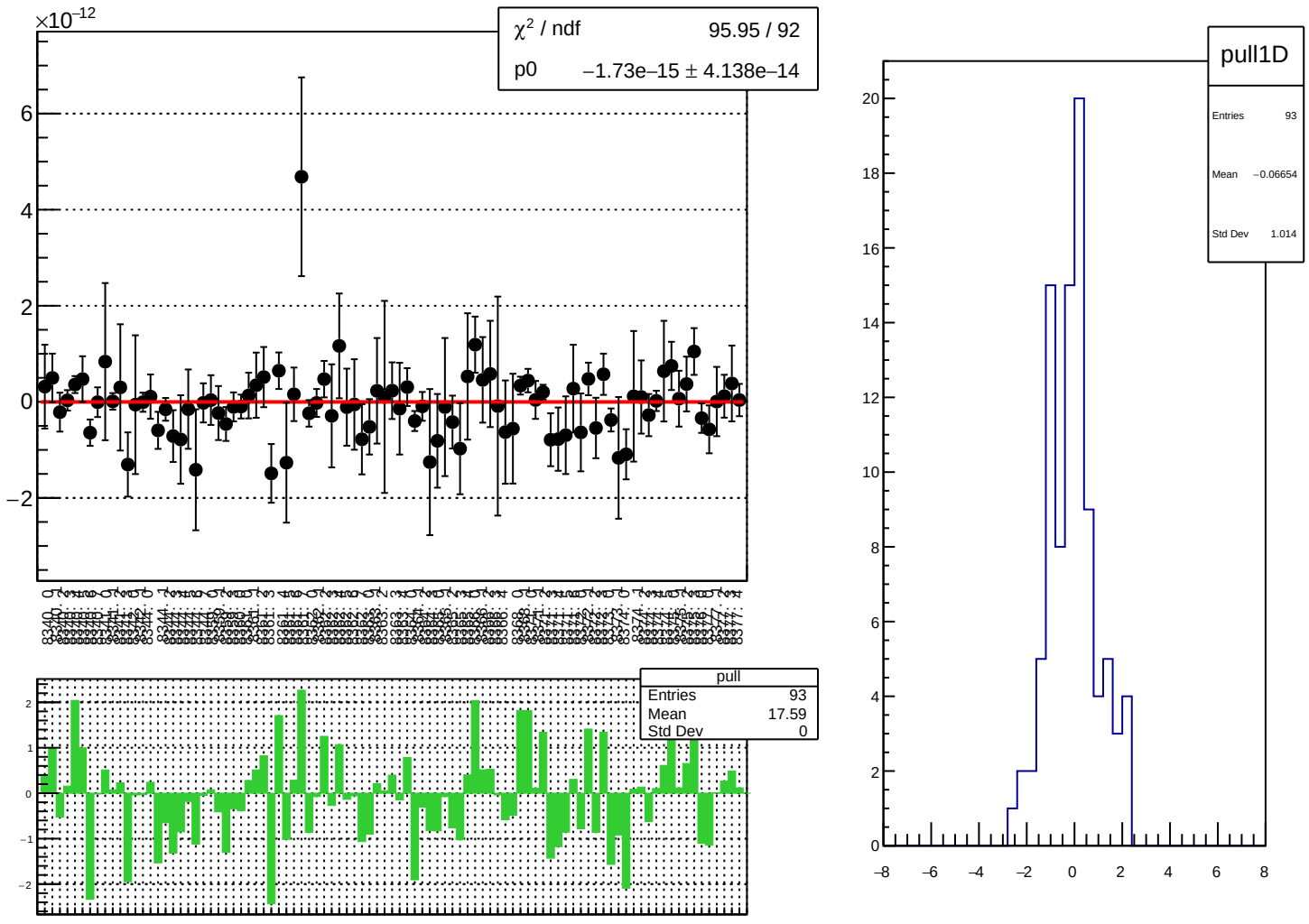

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.84 / 92
p0 −0.06043 ± 0.02488
pull
Entries 93
Mean 2818
Std Dev 0

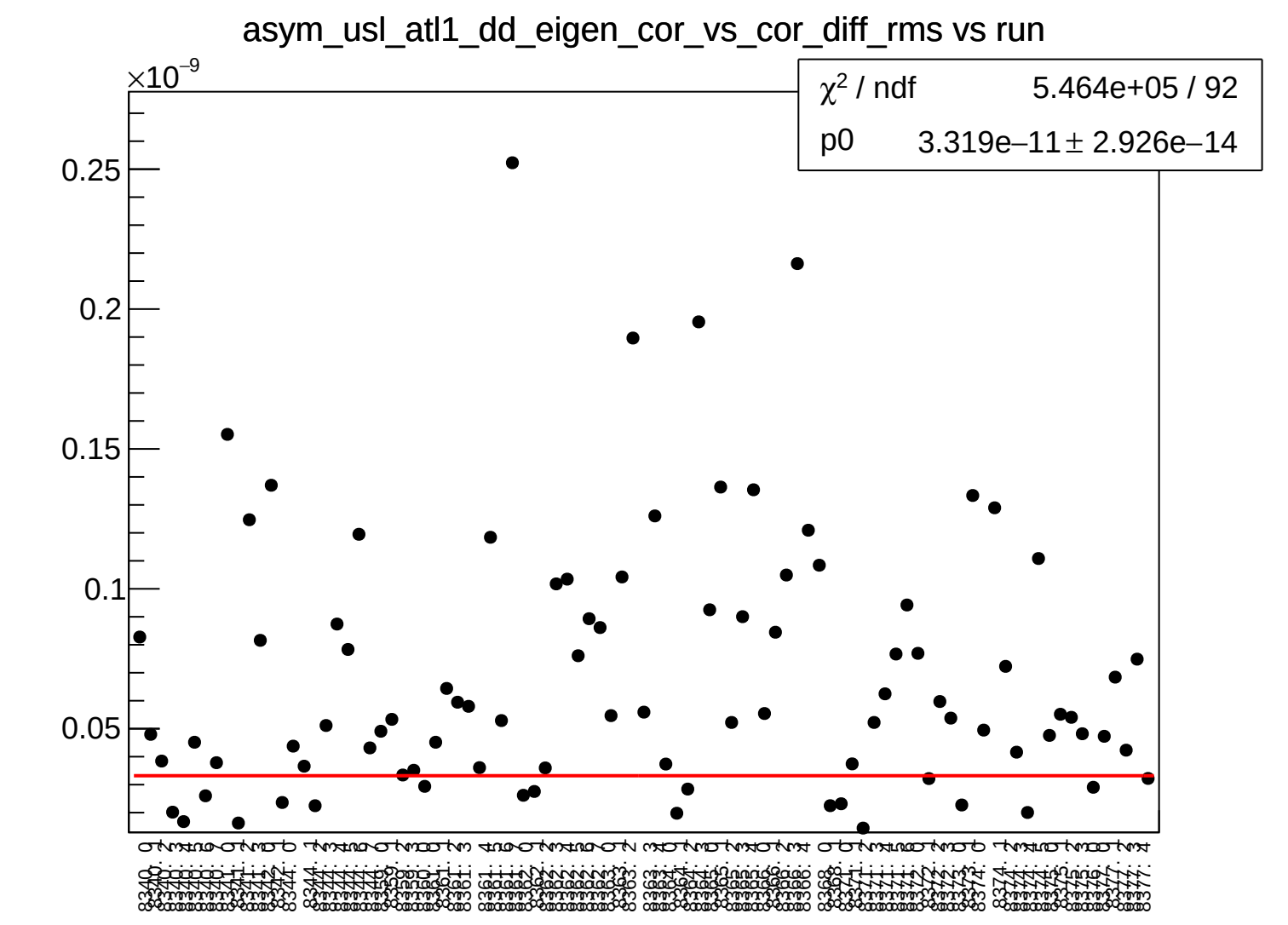

pull1D
Entries 93
Mean 0.001836
Std Dev 0.8604

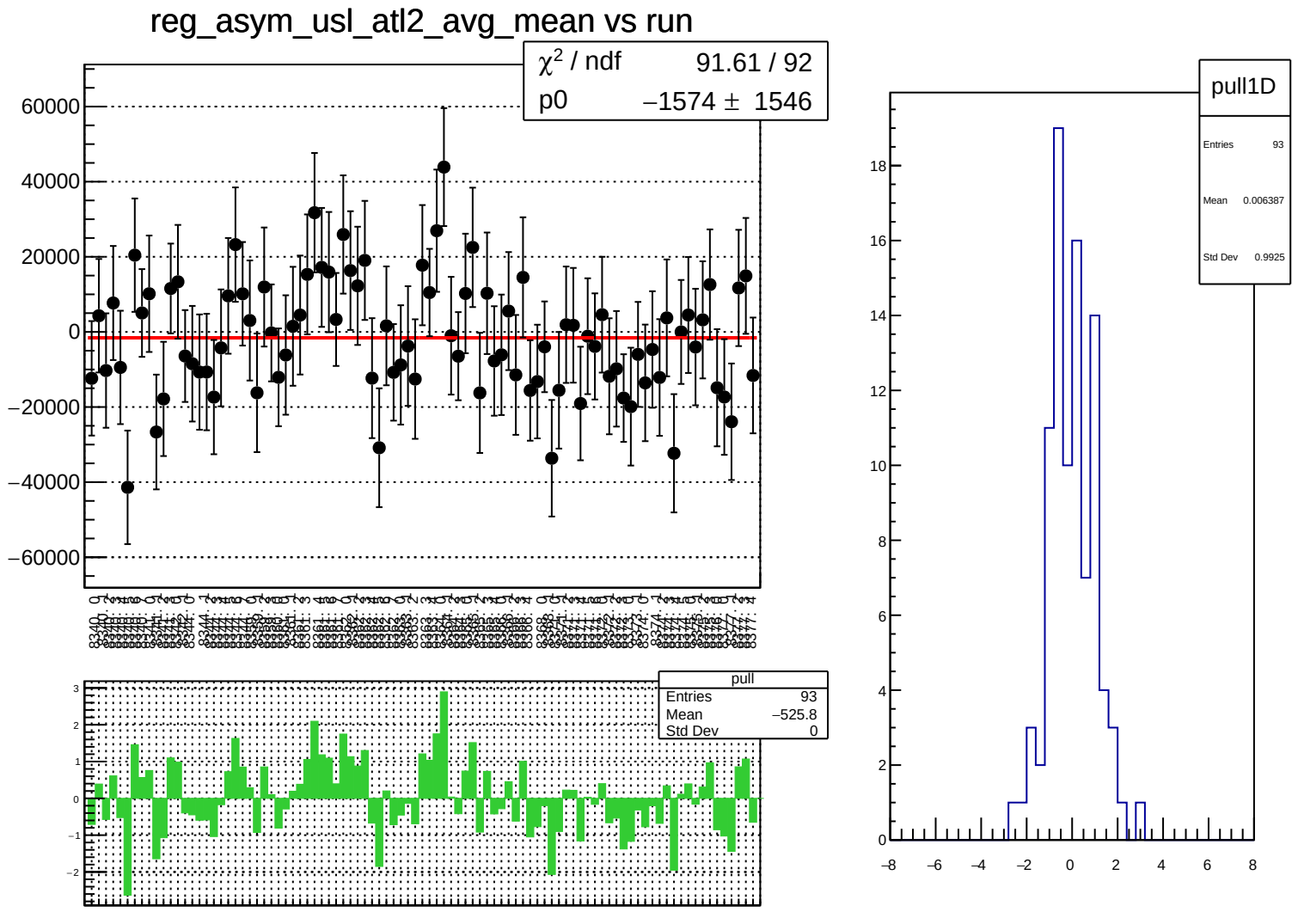

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.69e+05 / 92
p0 21.29 ± 0.01759
70
60
50
40
30
20
10

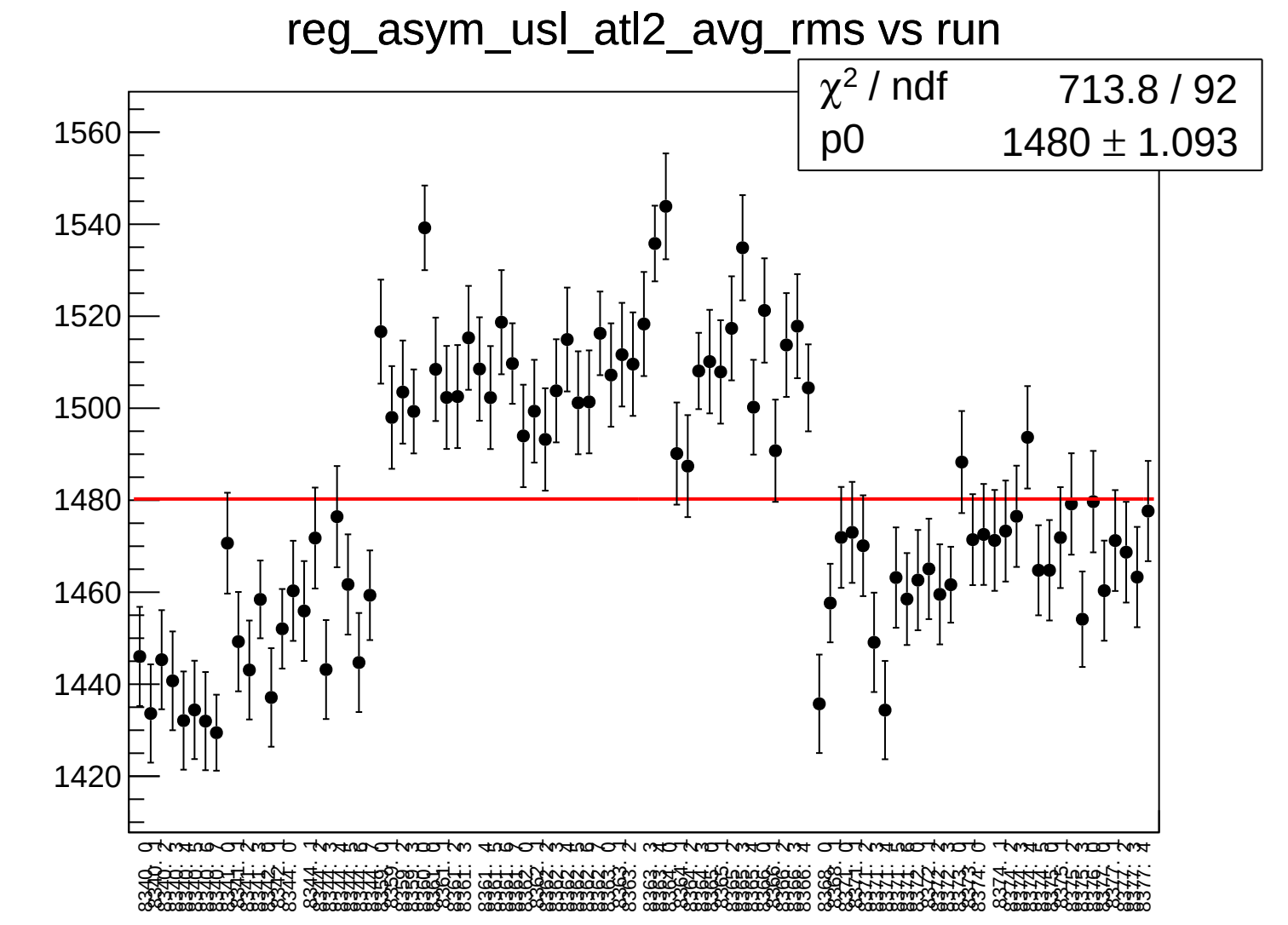

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.84 / 92
p0 −0.06043 ± 0.02488
pull
Entries 93
Mean 2818
Std Dev 0
pull1D
Entries 93
Mean 0.001836
Std Dev 0.8604

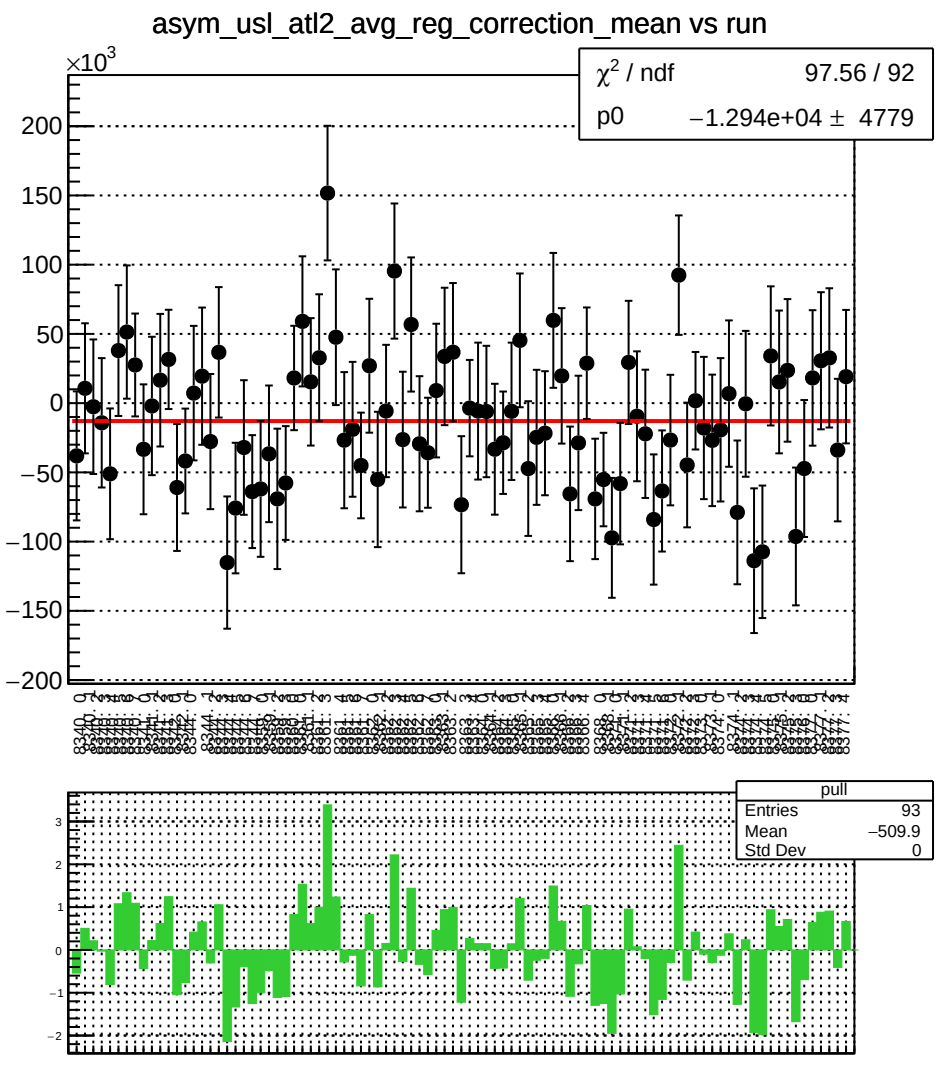

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.69e+05 / 92
p0 21.29 ± 0.01759
70
60
50
40
30
20
10

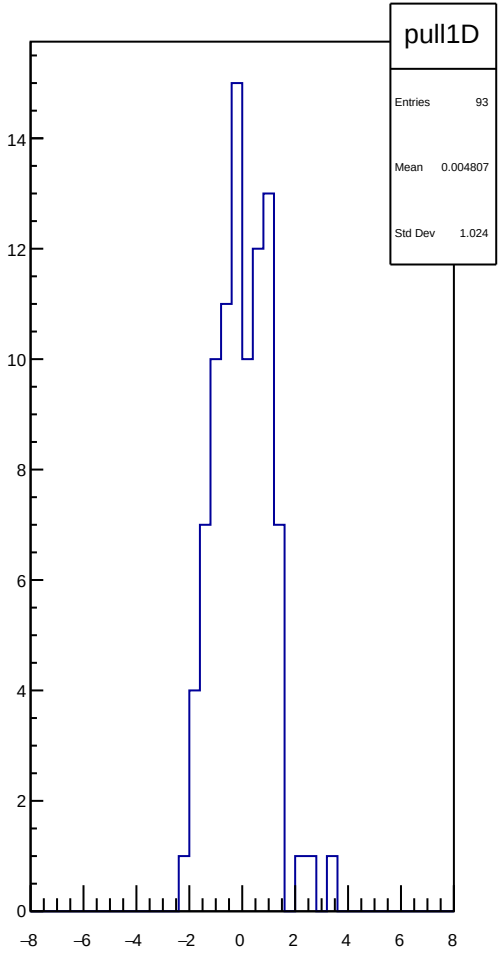

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.95 / 92
p0 −1.73e−15 ± 4.138e−14
pull
Entries 93
Mean 17.59
Std Dev 0
pull1D
Entries 93
Mean −0.06654
Std Dev 1.014

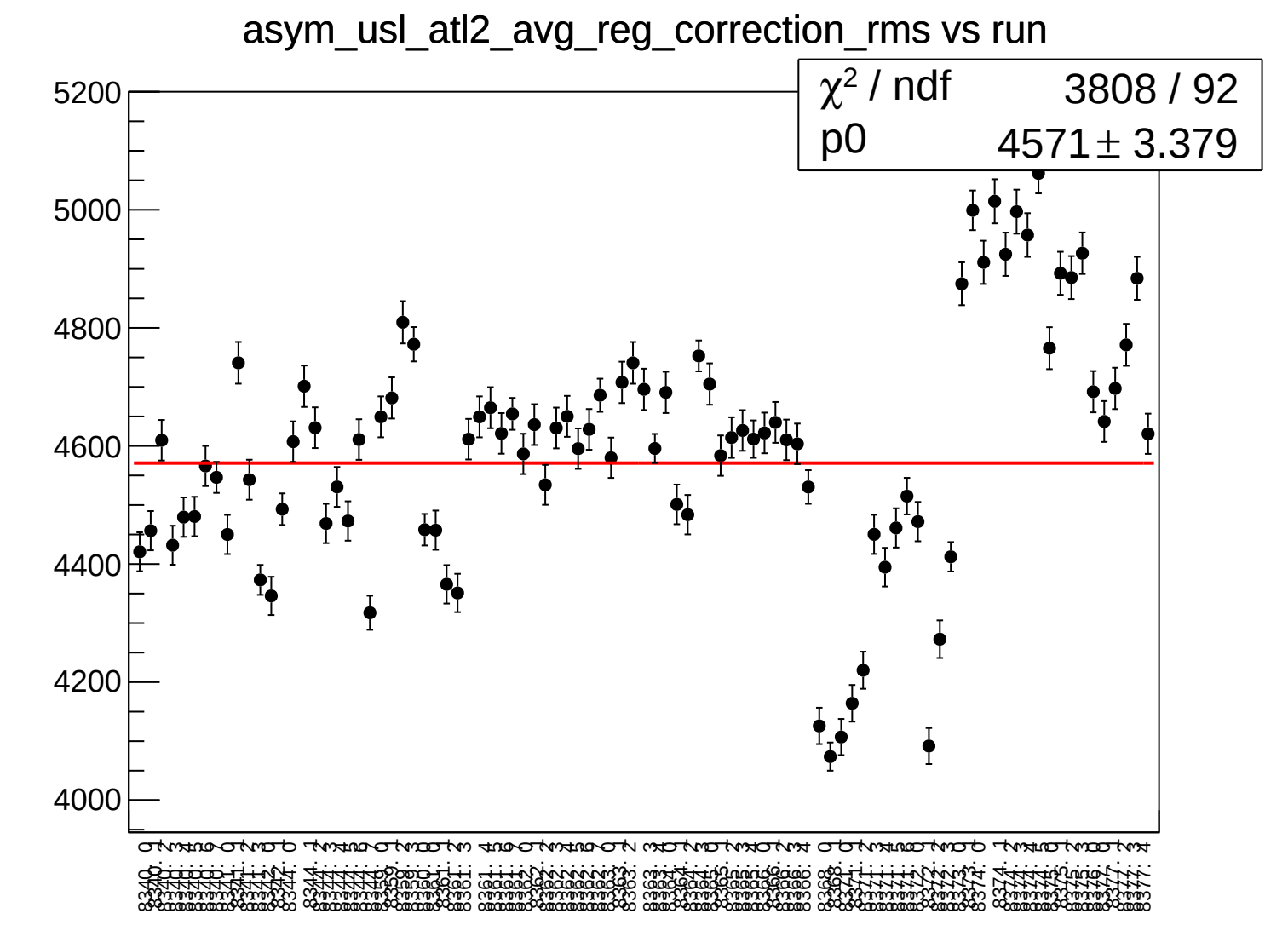

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.464e+05 / 92
p0 3.319e−11 ± 2.926e−14
0.25
0.2
0.15
0.1
0.05

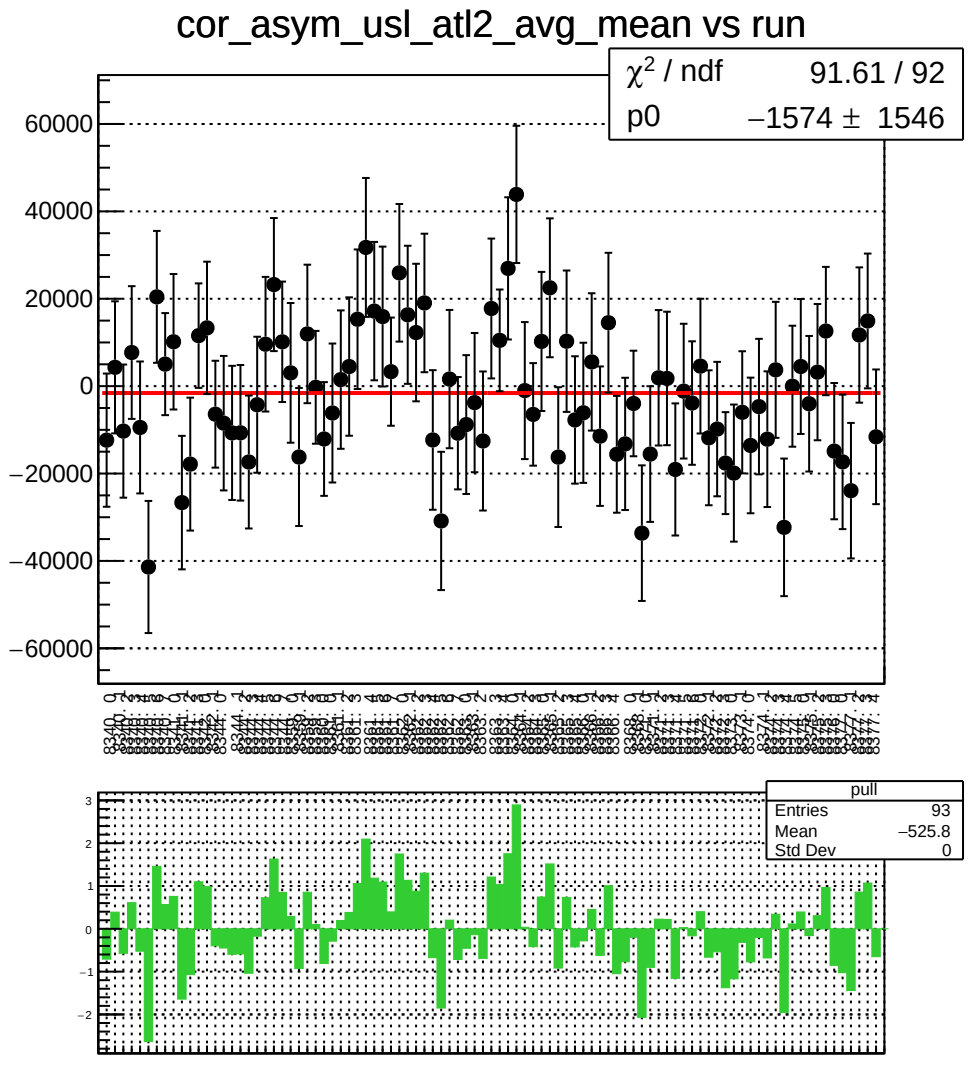

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.61 / 92
p0 −1574 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −525.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006387
Std Dev 0.9925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

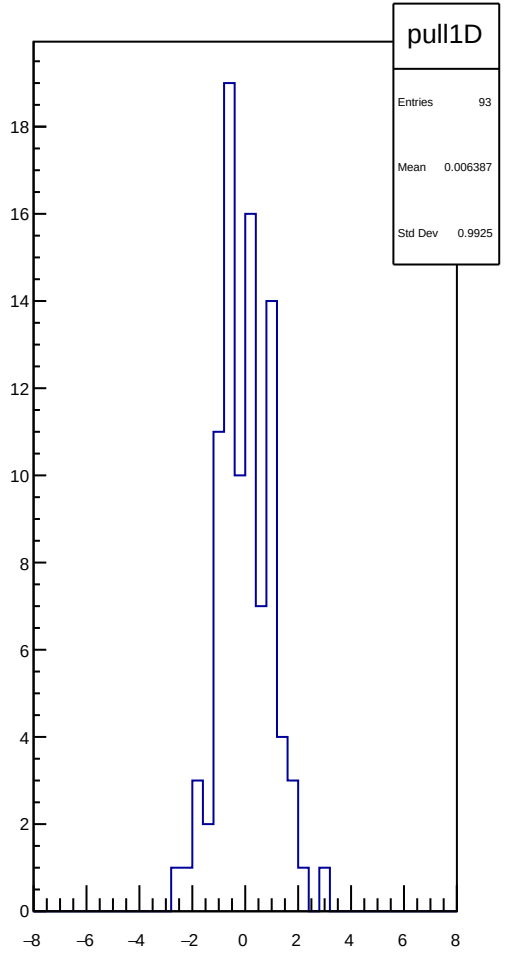

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 713.8 / 92
p0 1480 ± 1.093
1560
1540
1520
1500
1480
1460
1440
1420


asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 97.56 / 92
p0 −1.294e+04 ± 4779
pull
Entries 93
Mean −509.9
Std Dev 0


pull1D
Entries 93
Mean 0.004807
Std Dev 1.024


asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 3808 / 92
p0 4571 ± 3.379
5200
5000
4800
4600
4400
4200
4000


cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.61 / 92
p0 −1574 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −525.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.006387
Std Dev 0.9925
18
16
14
12
10
8
6
4
2
0
−8
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−4
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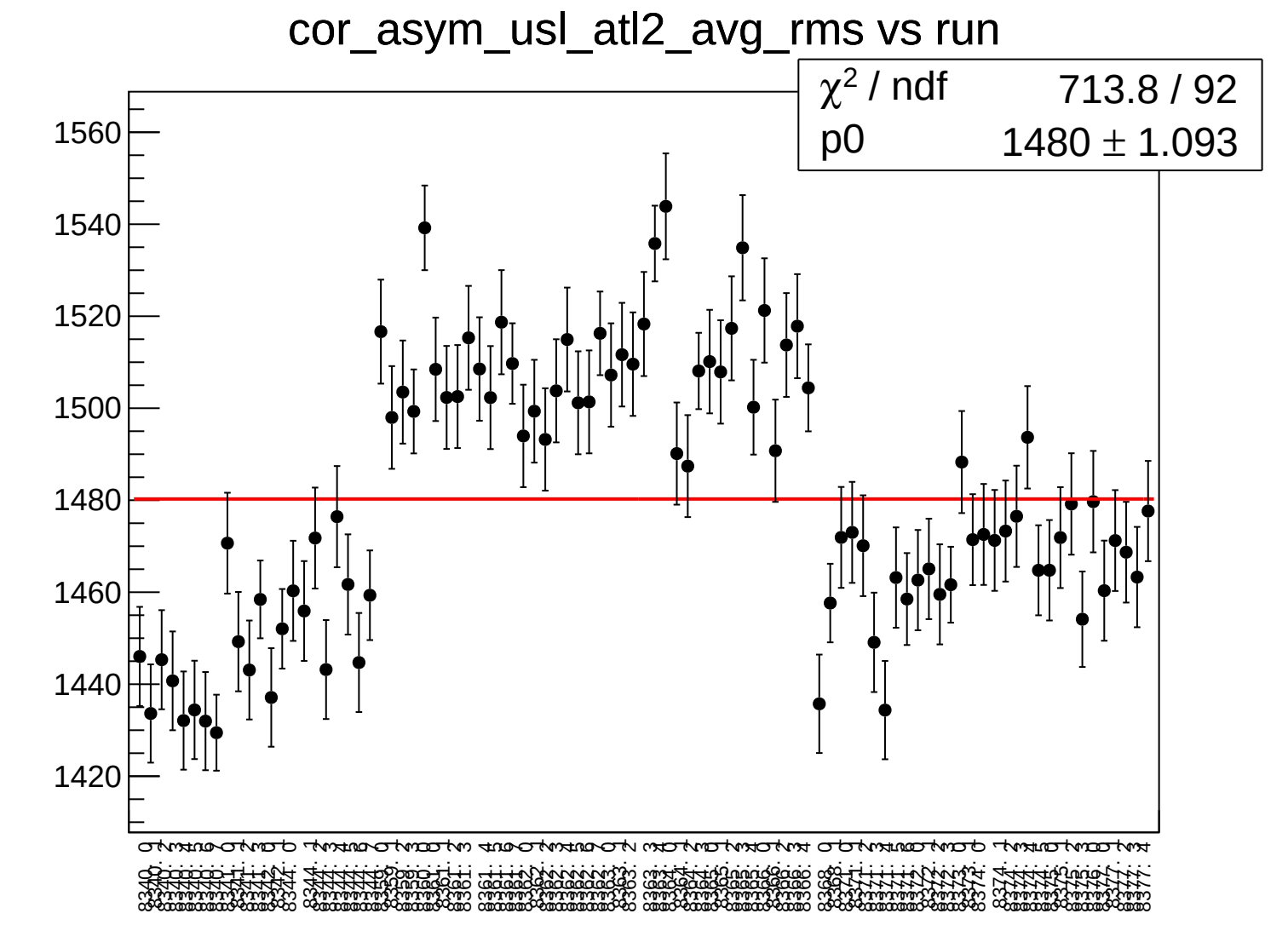
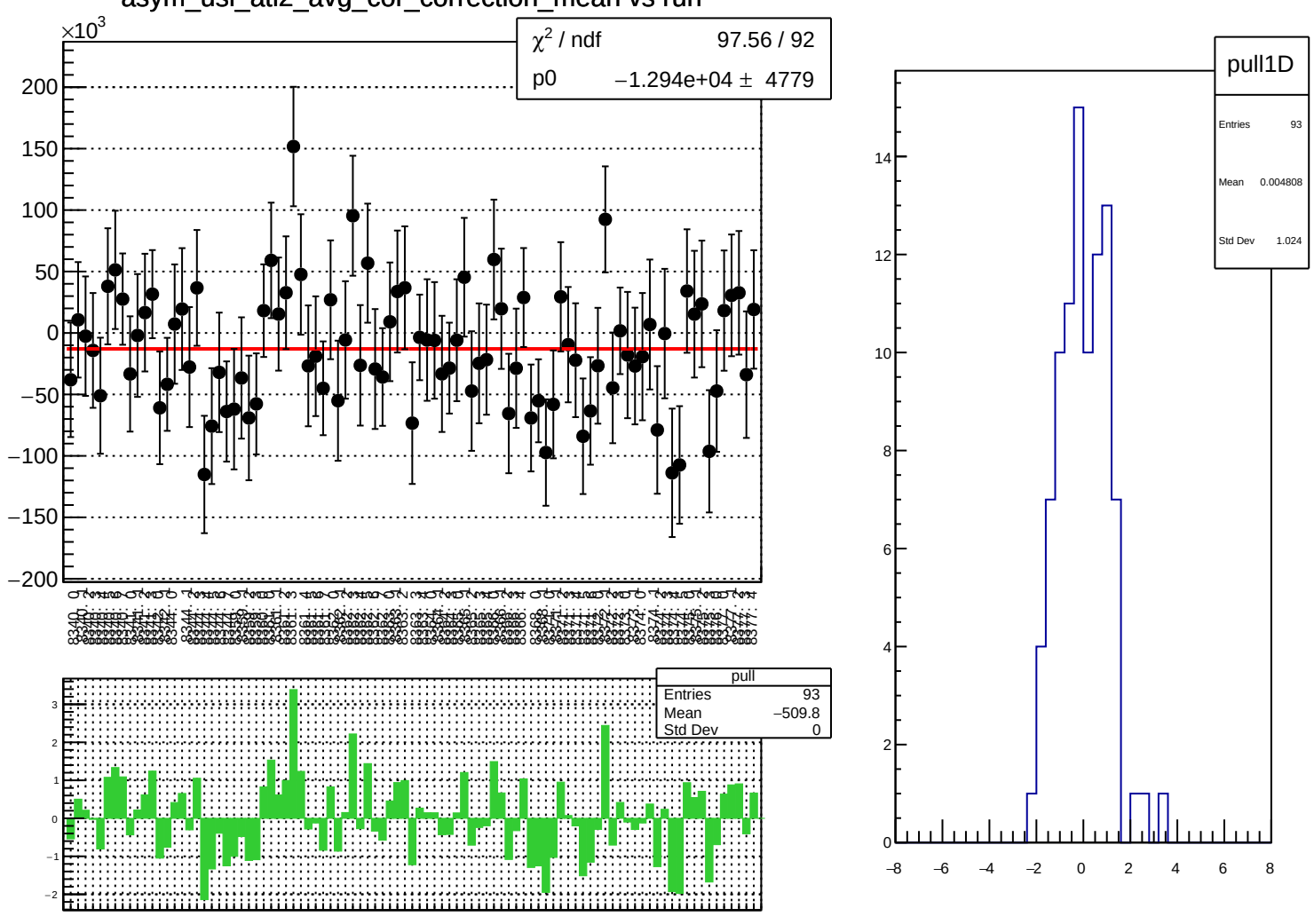
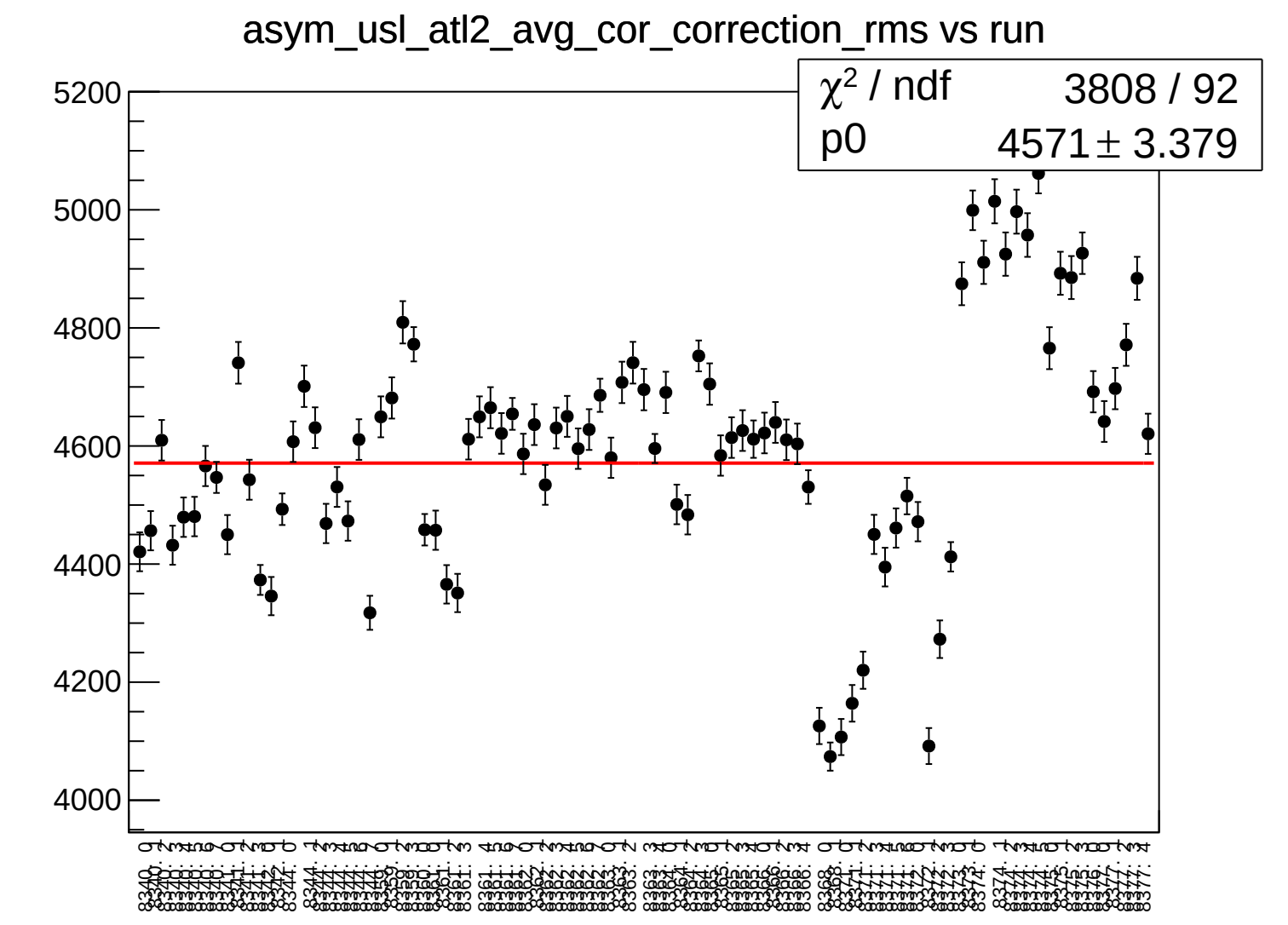
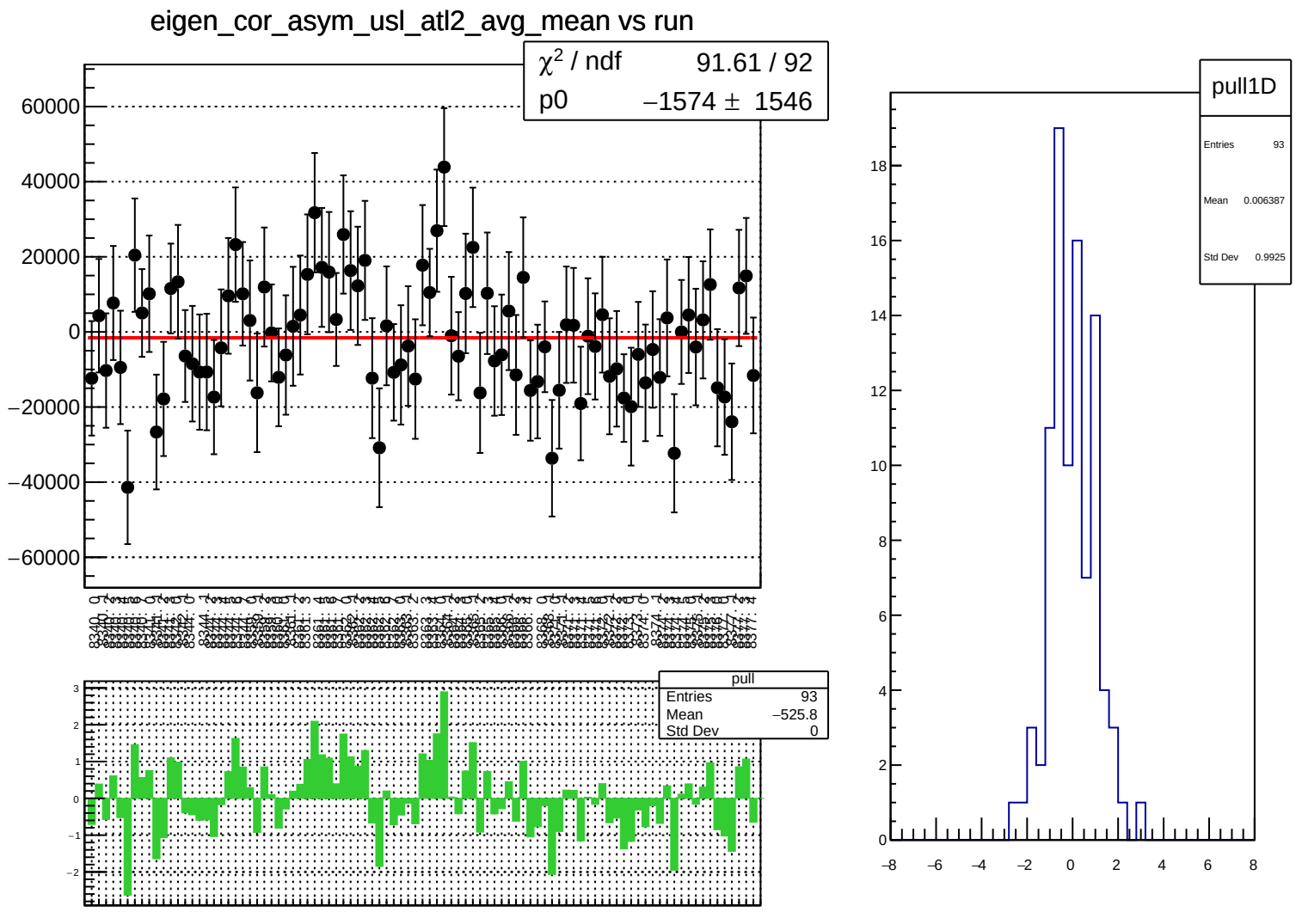
0
2
4
6
8


cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 713.8 / 92
p0 1480 ± 1.093
1560
1540
1520
1500
1480
1460
1440
1420


asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 97.56 / 92
p0 −1.294e+04 ± 4779
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −509.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004808
Std Dev 1.024
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 3808 / 92
p0 4571 ± 3.379
5200
5000
4800
4600
4400
4200
4000


eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.61 / 92
p0 −1574 ± 1546
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −525.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006387
Std Dev 0.9925
18
16
14
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10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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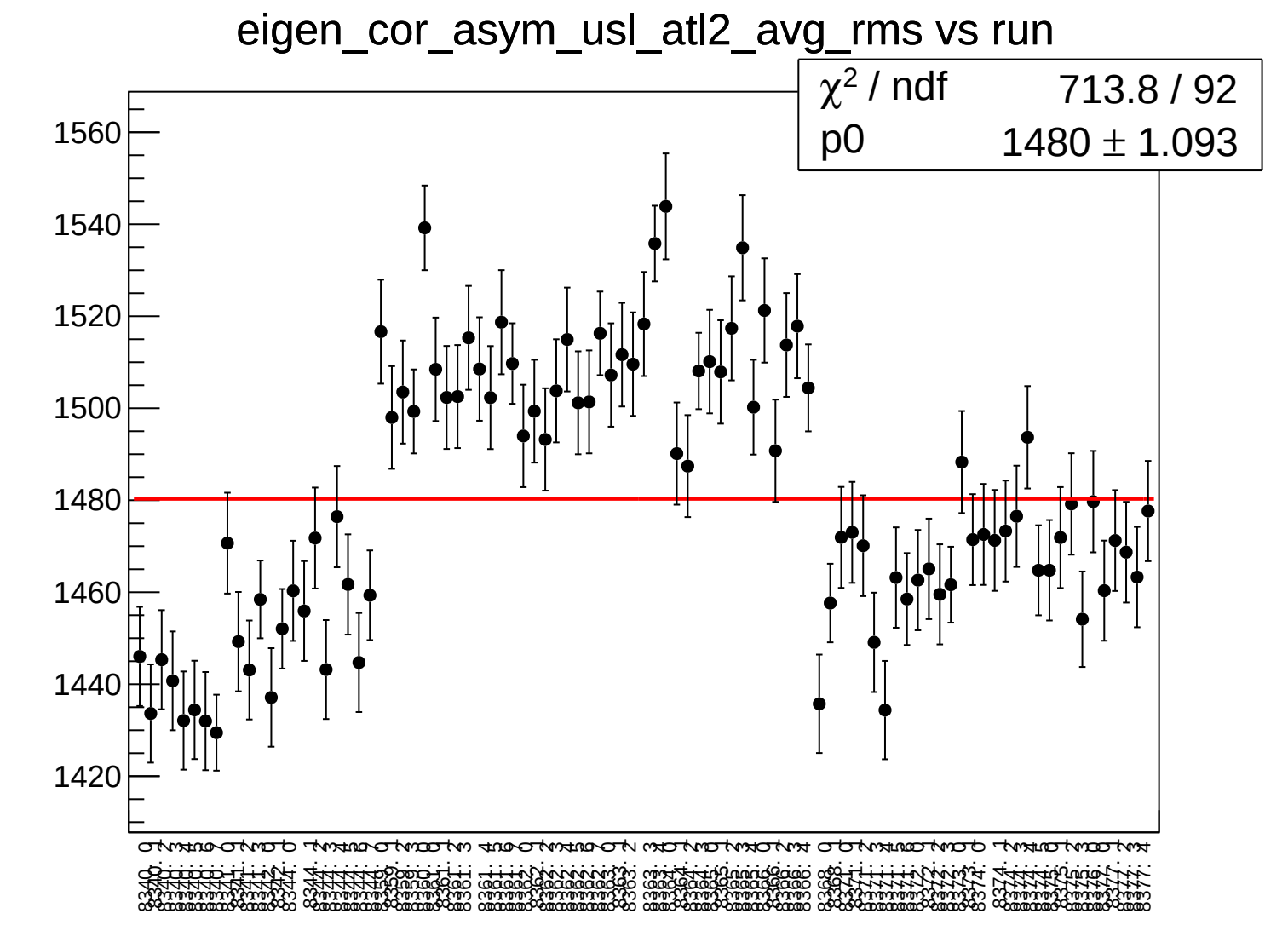
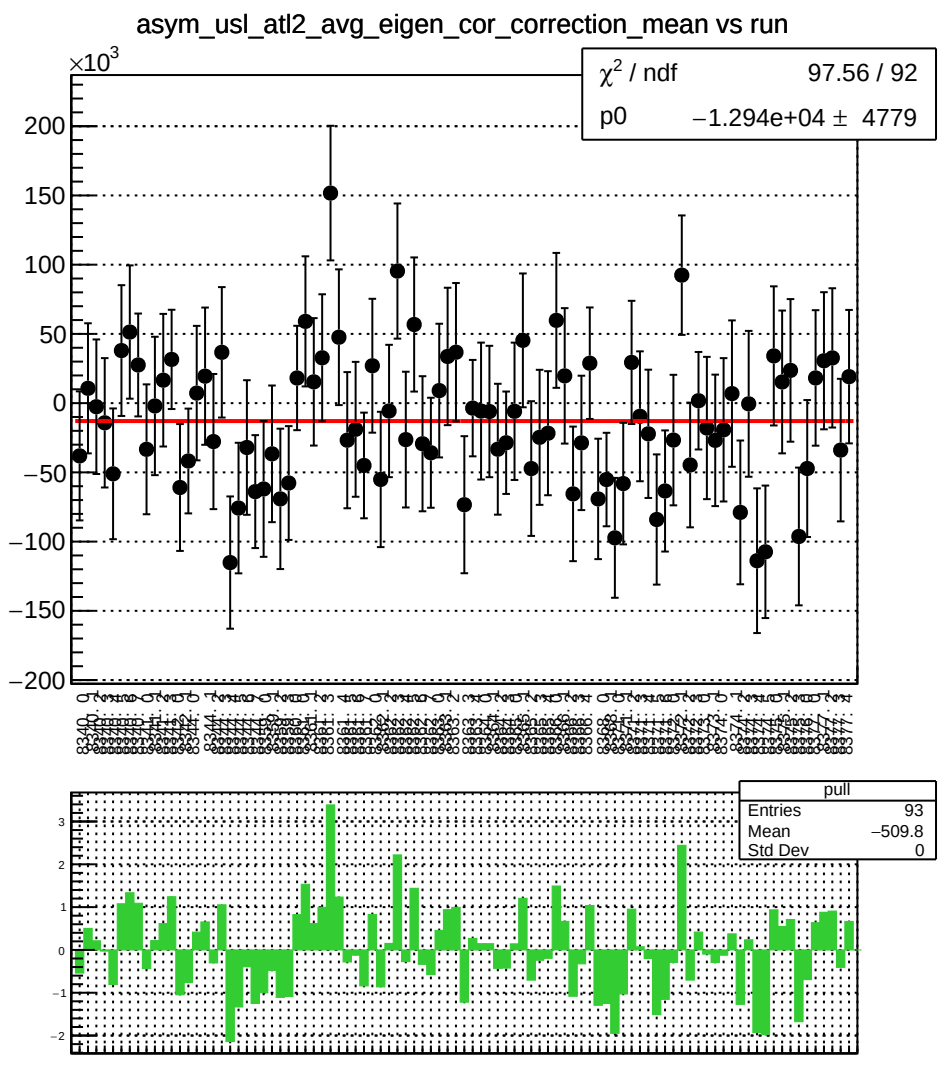
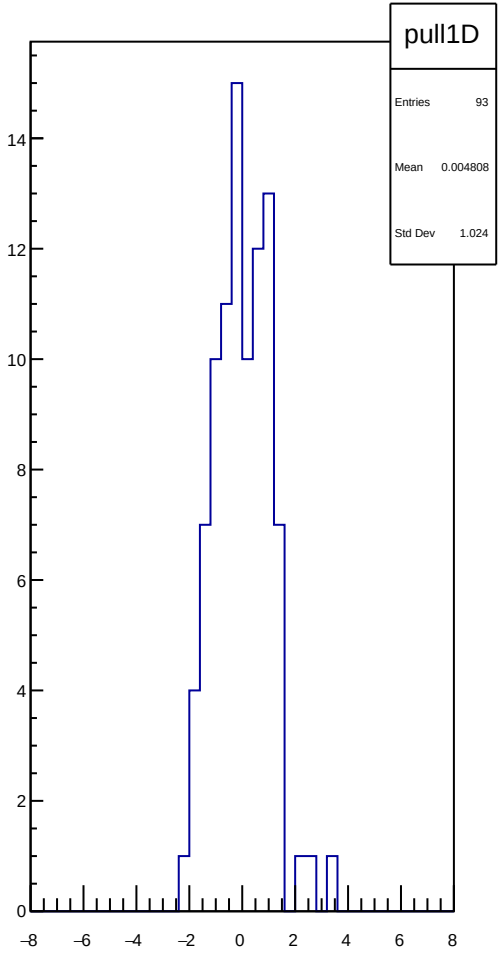
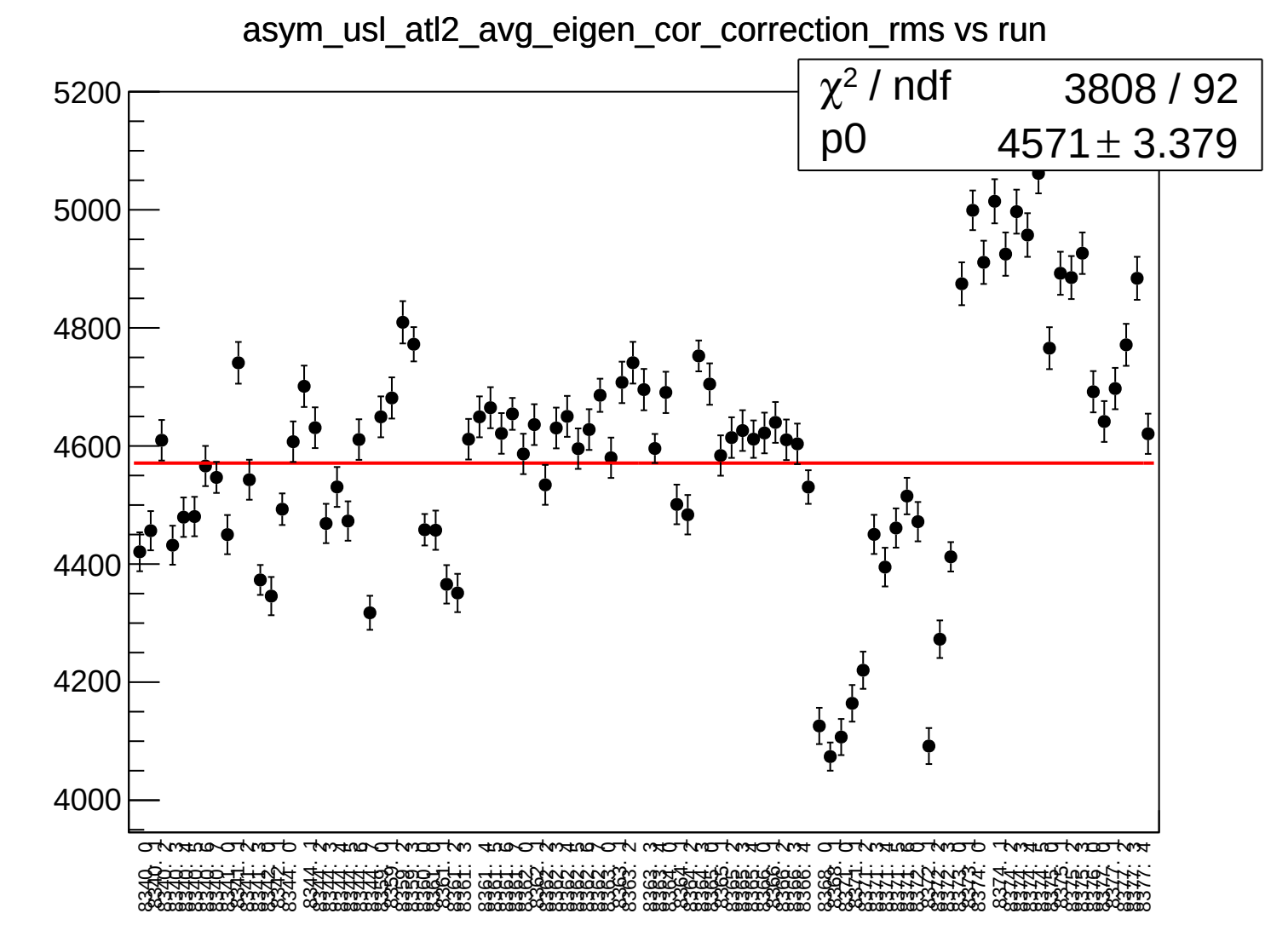
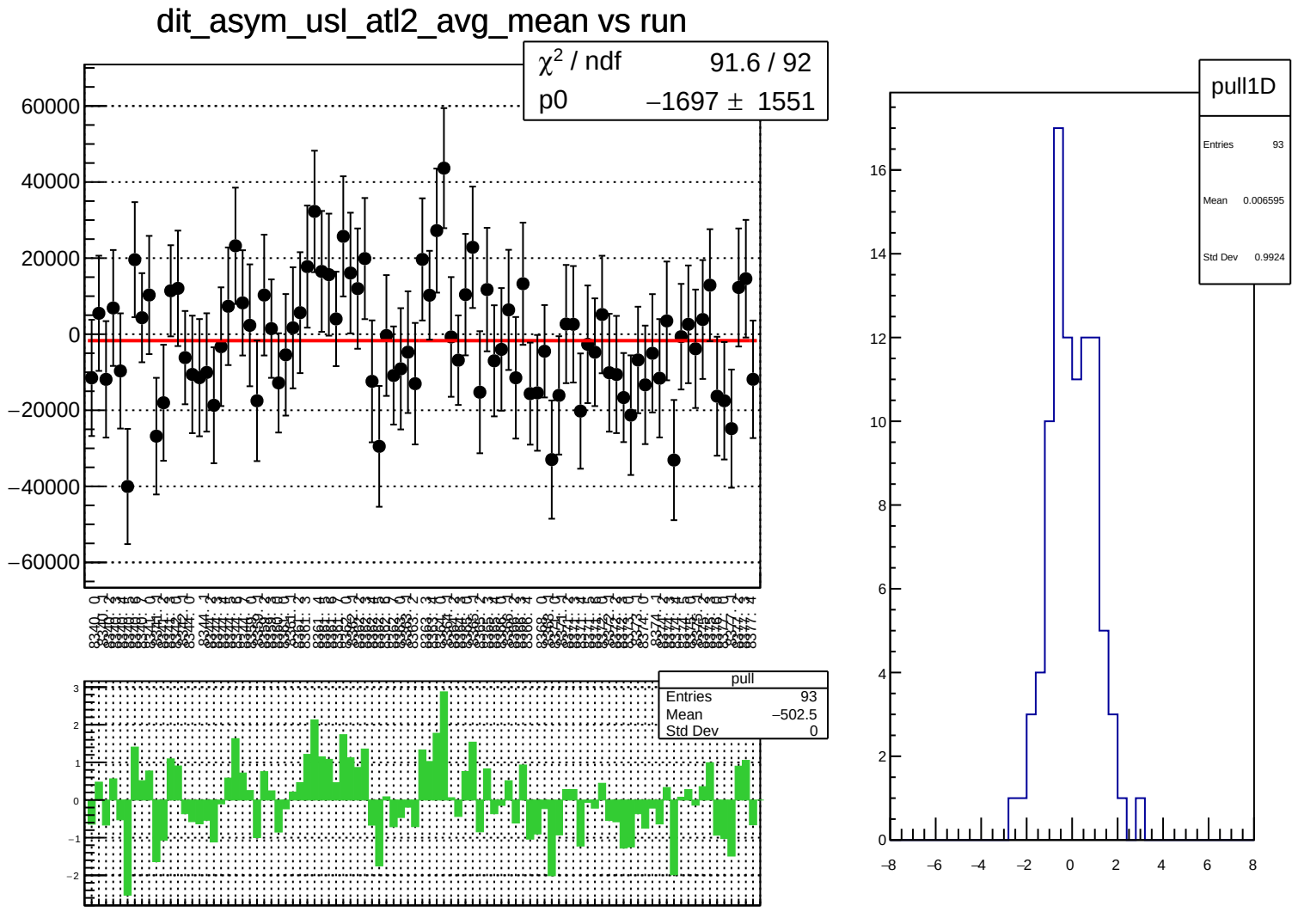
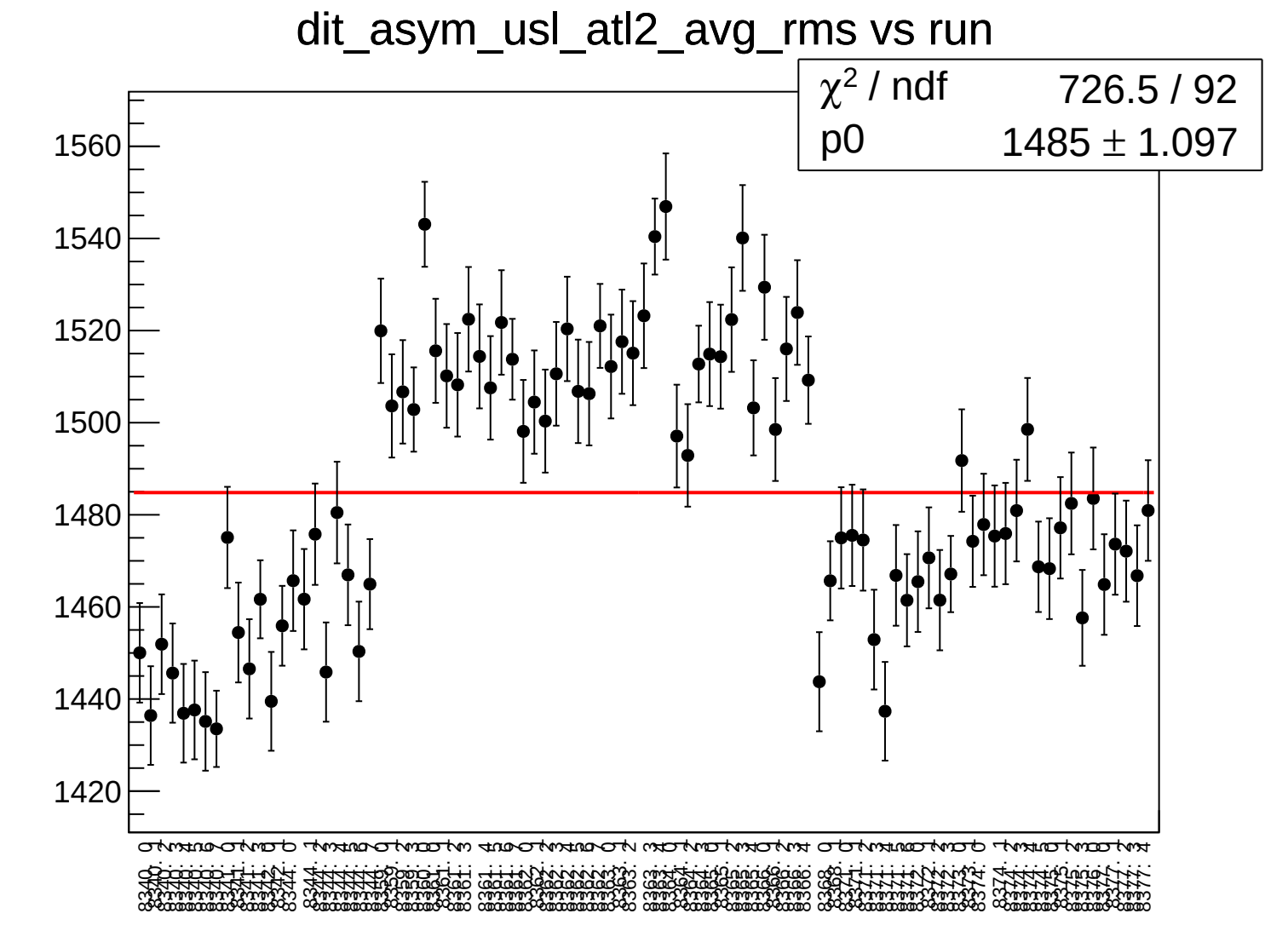

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 713.8 / 92
p0 1480 ± 1.093
1560
1540
1520
1500
1480
1460
1440
1420

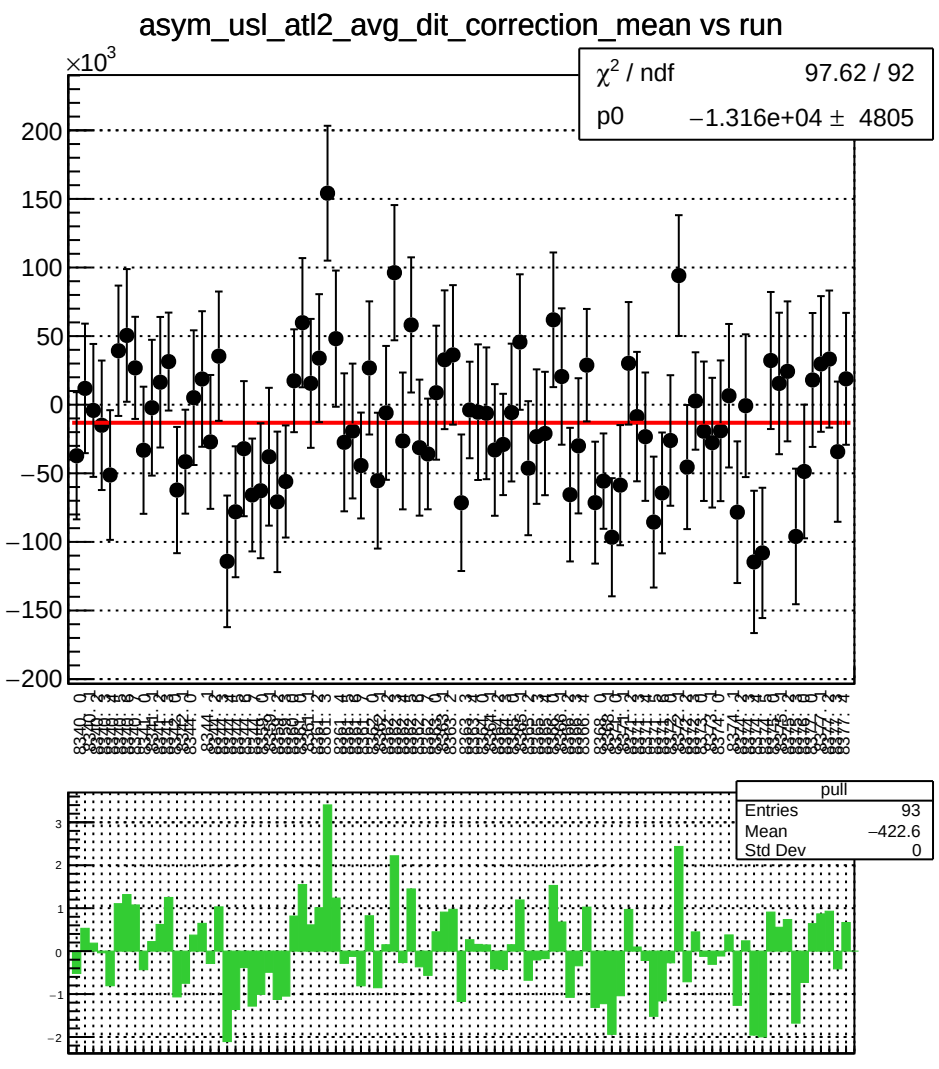

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 97.56 / 92
p0 −1.294e+04 ± 4779
pull
Entries 93
Mean −509.8
Std Dev 0

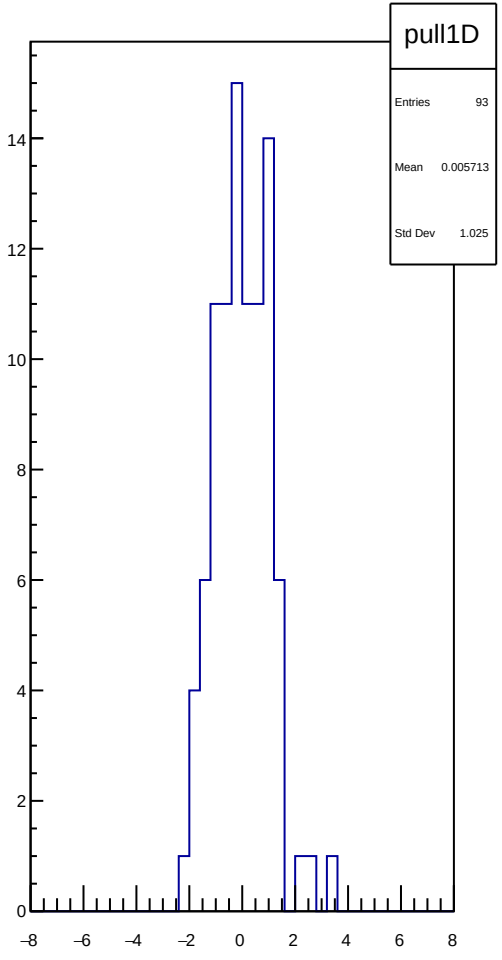

pull1D
Entries 93
Mean 0.004808
Std Dev 1.024

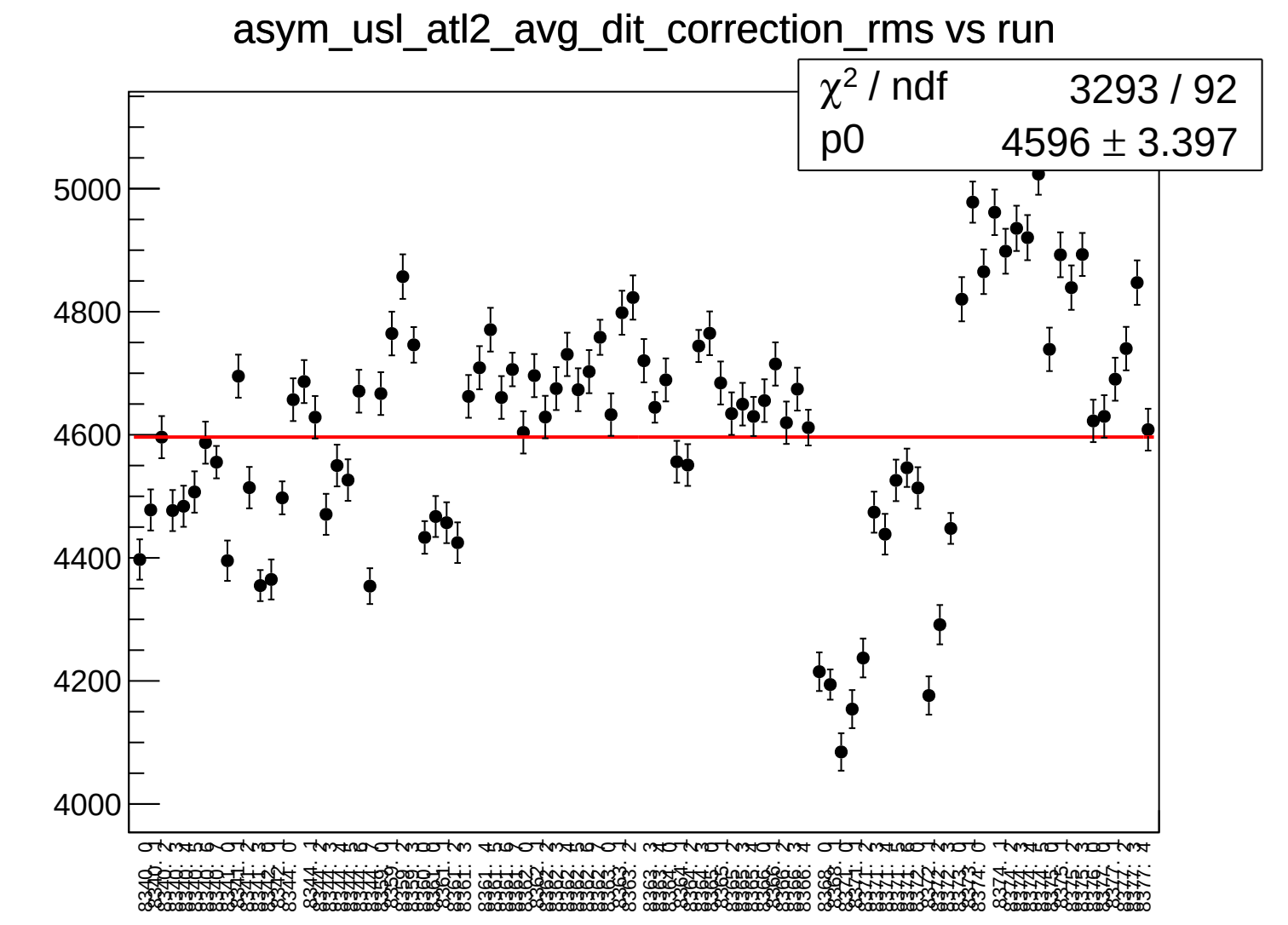

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3808 / 92
p0 4571 ± 3.379
5200
5000
4800
4600
4400
4200
4000

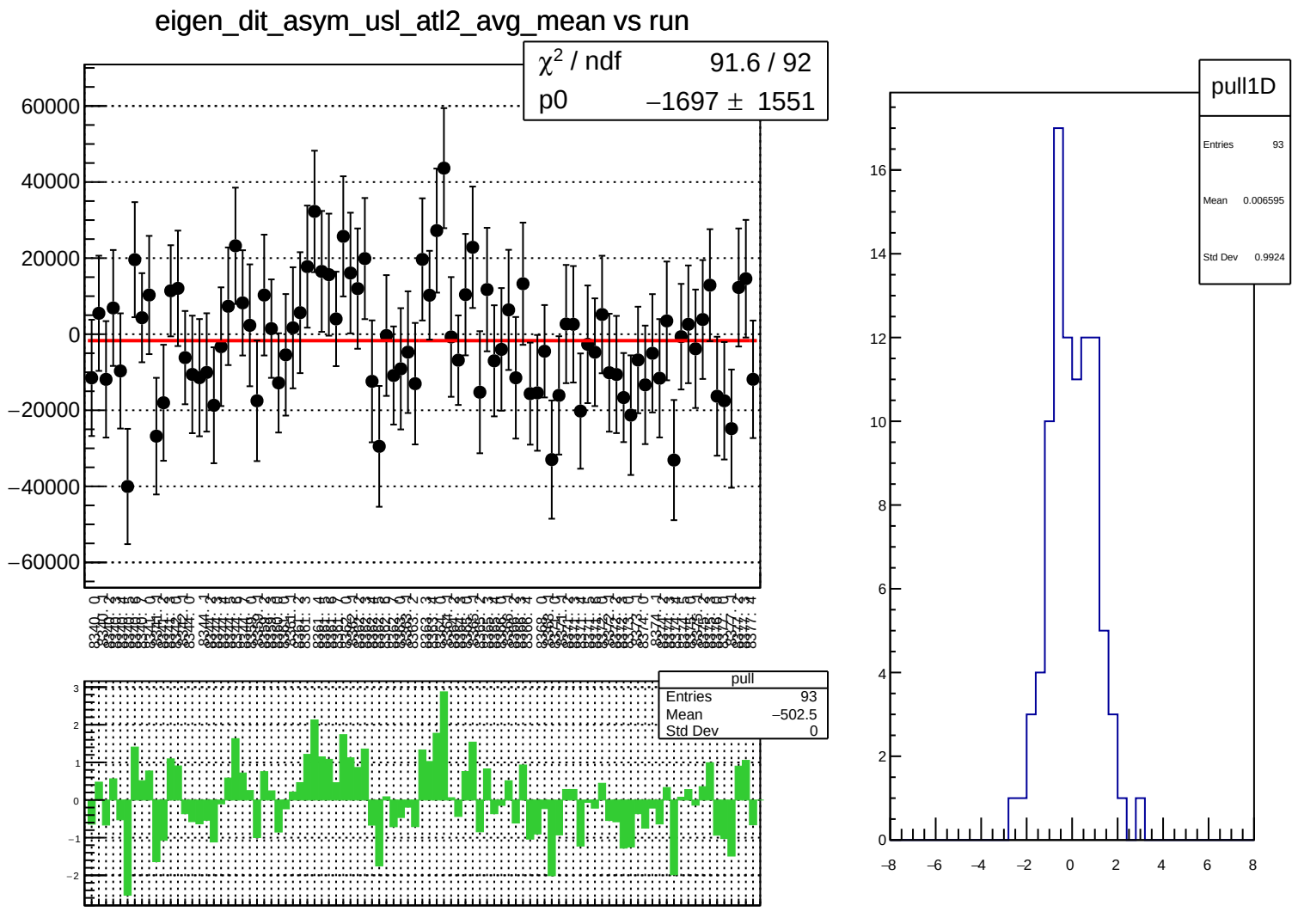

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.6 / 92
p0 −1697 ± 1551
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −502.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006595
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

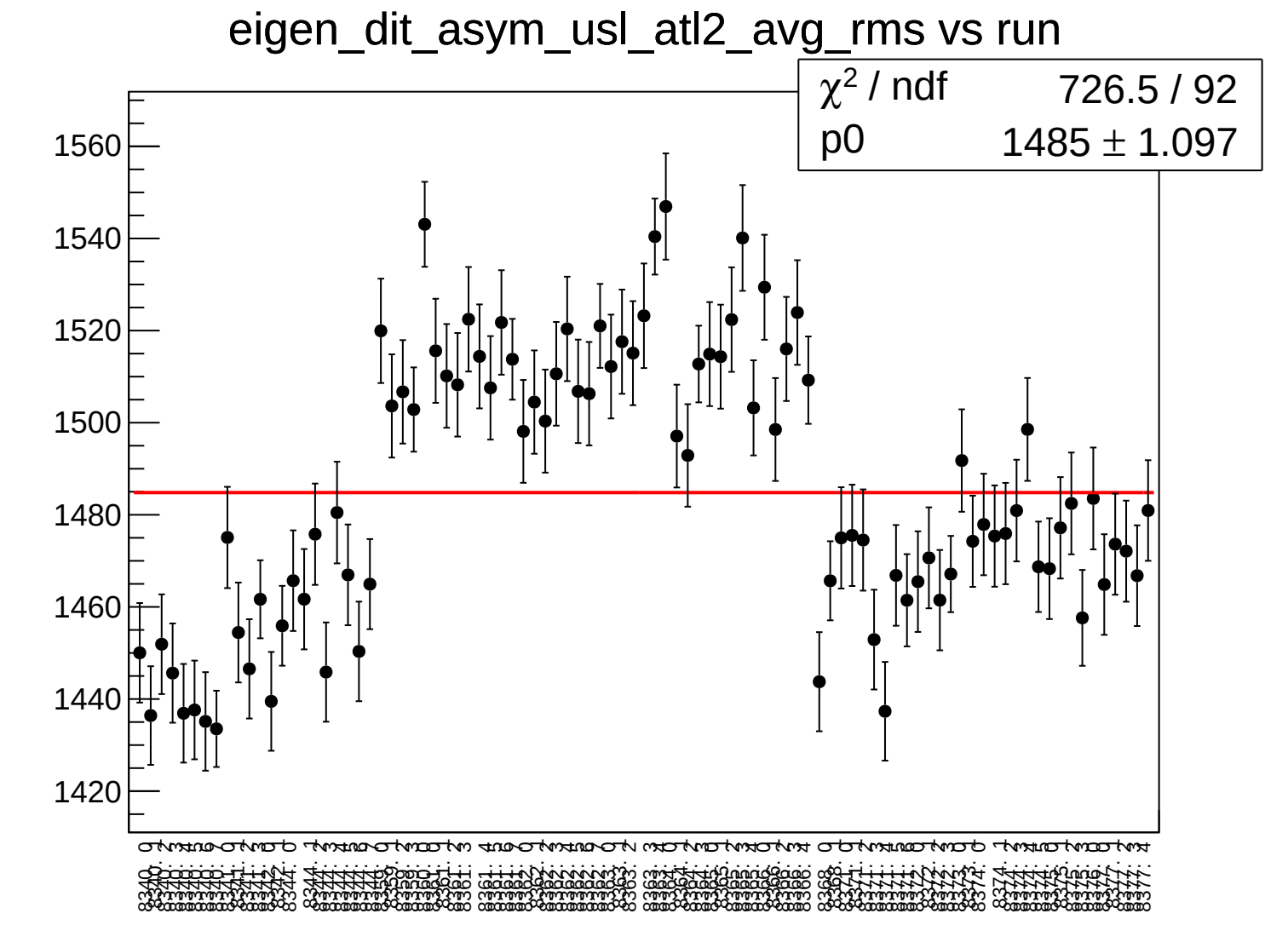

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 726.5 / 92
p0 1485 ± 1.097
1560
1540
1520
1500
1480
1460
1440
1420

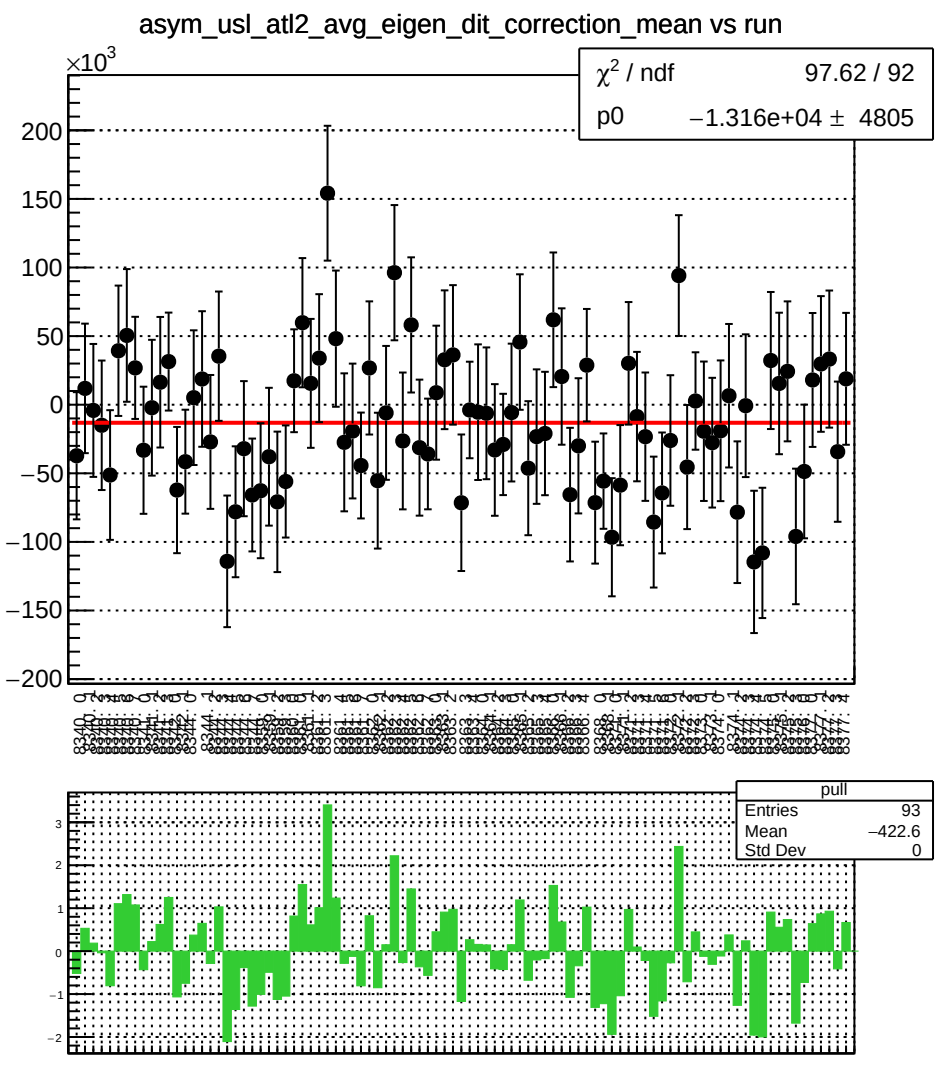

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.62 / 92
p0 −1.316e+04 ± 4805
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −422.6
Std Dev 0
3
2
1
0
−1
−2

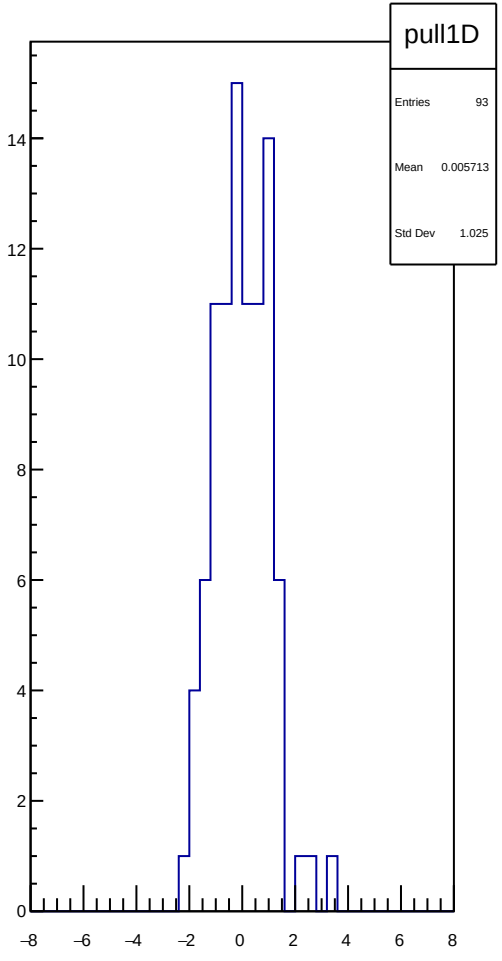

pull1D
Entries 93
Mean 0.005713
Std Dev 1.025
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

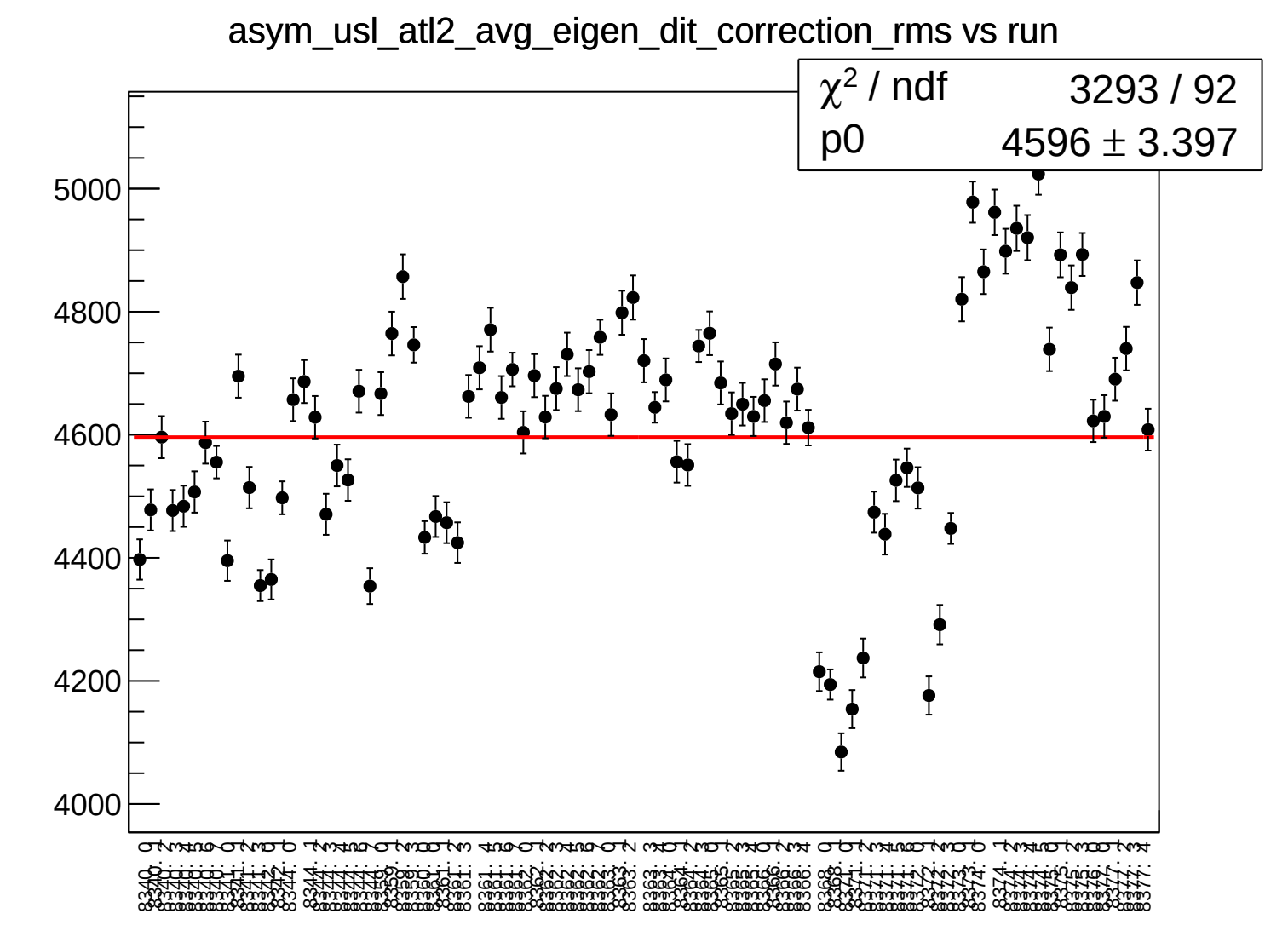

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 3293 / 92
p0 4596 ± 3.397
5000
4800
4600
4400
4200
4000

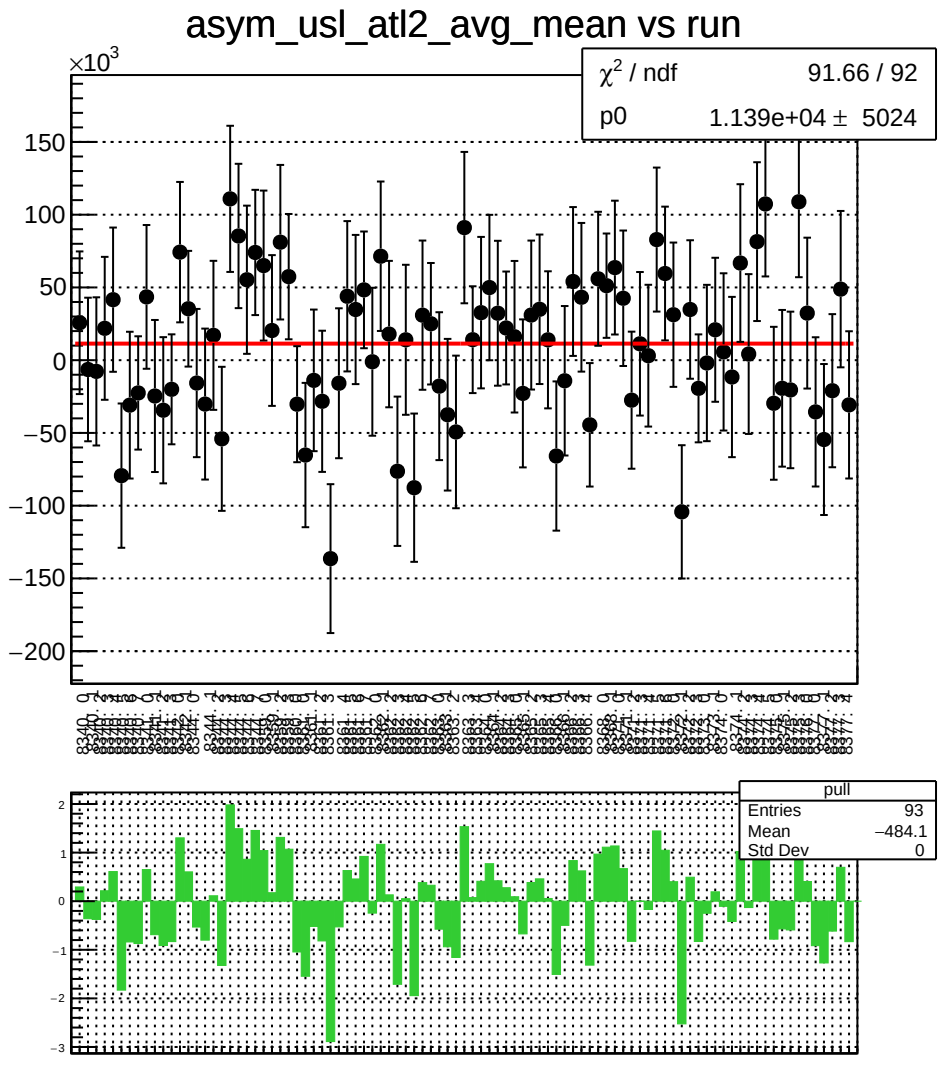

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 91.6 / 92
p0 −1697 ± 1551
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −502.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006595
Std Dev 0.9924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

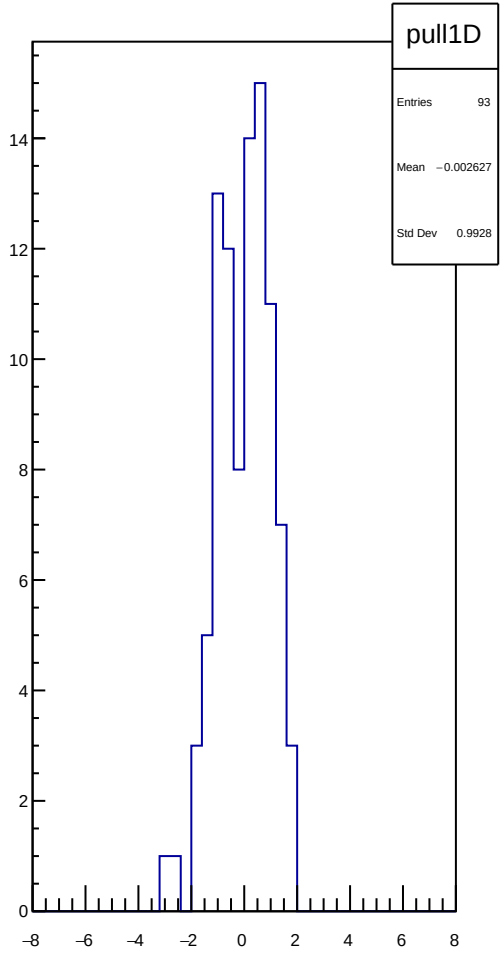

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 726.5 / 92
p0 1485 ± 1.097
1560
1540
1520
1500
1480
1460
1440
1420

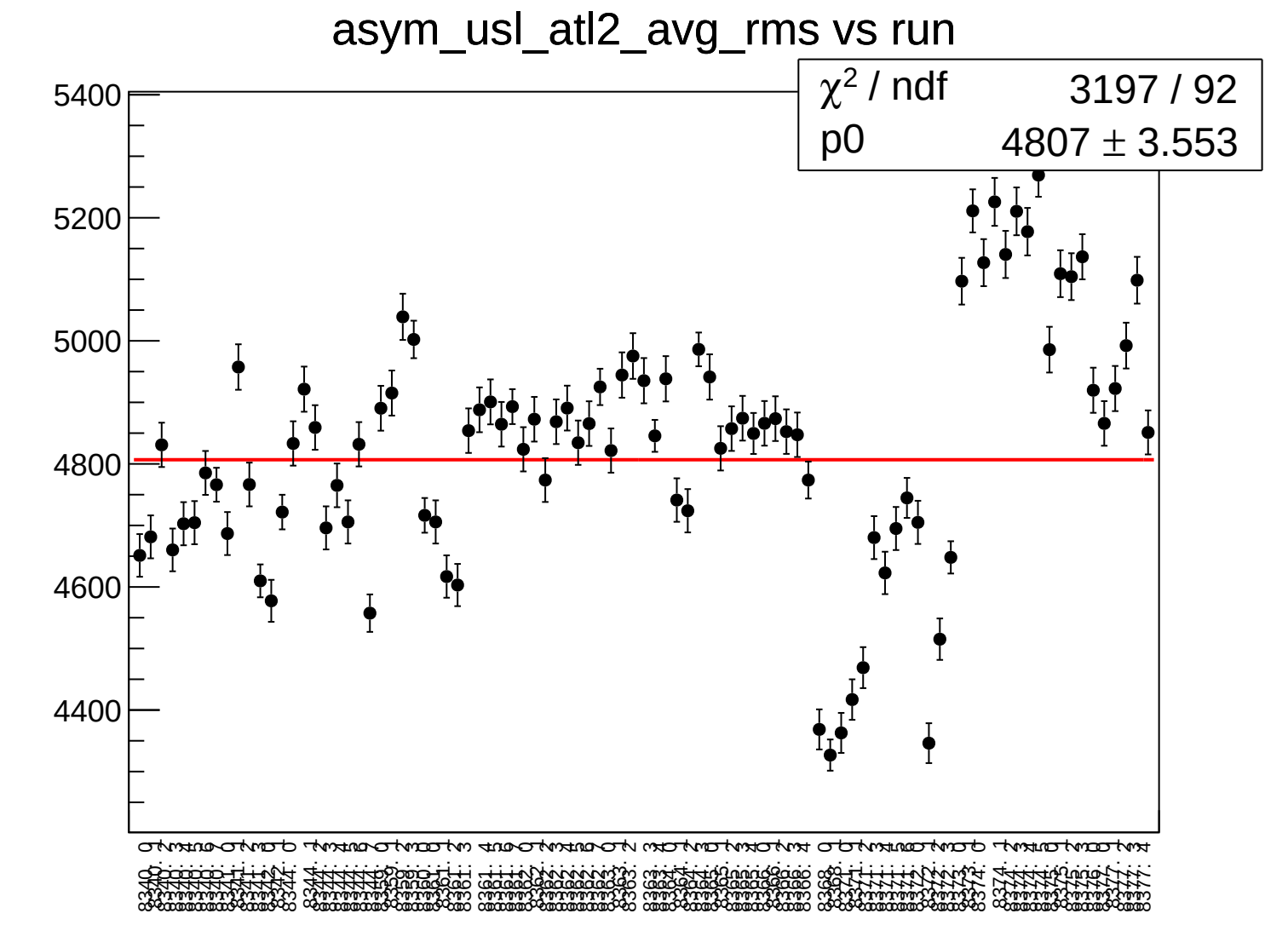

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.62 / 92
p0 −1.316e+04 ± 4805
pull
Entries 93
Mean −422.6
Std Dev 0

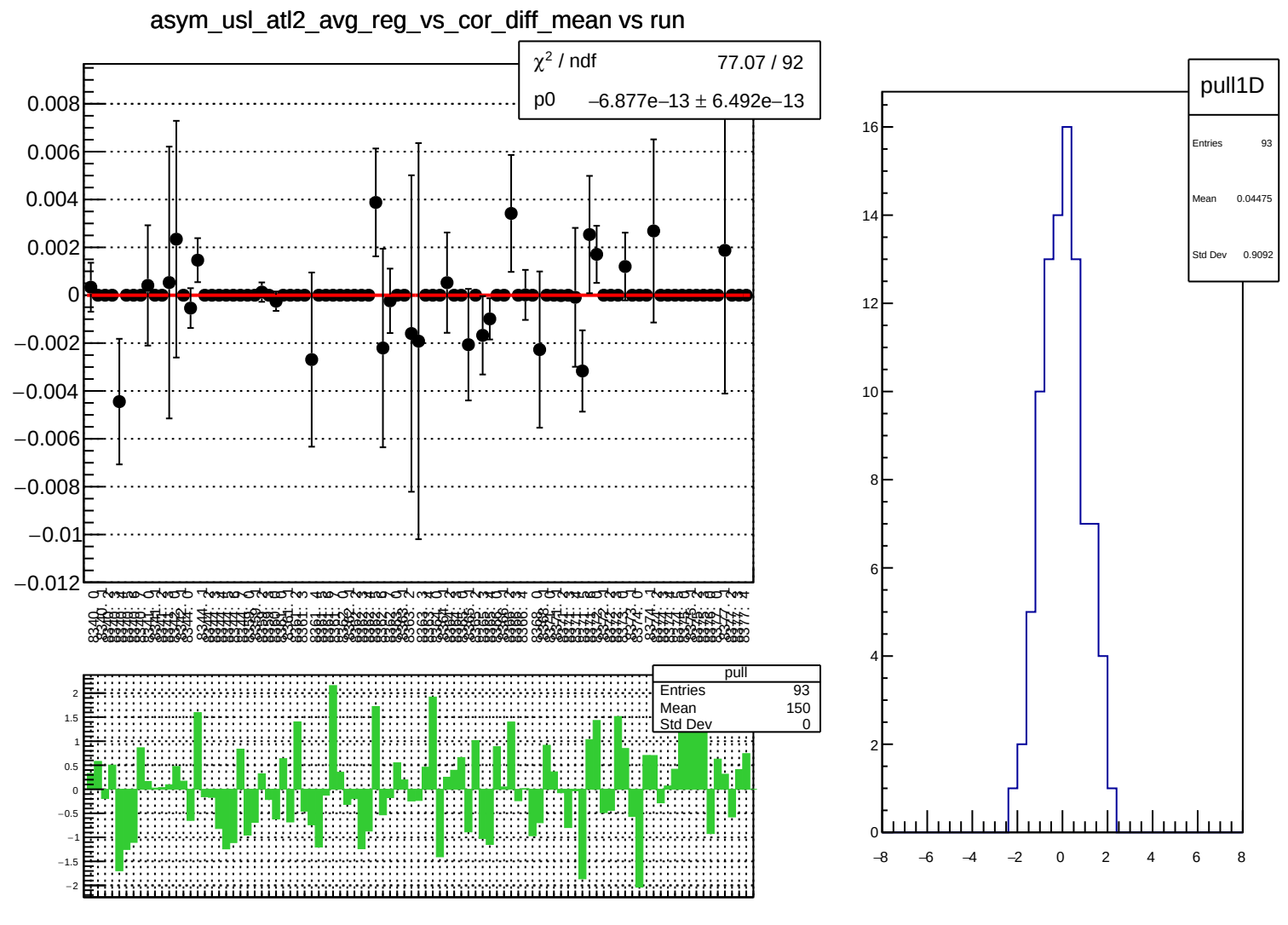

pull1D
Entries 93
Mean 0.005713
Std Dev 1.025

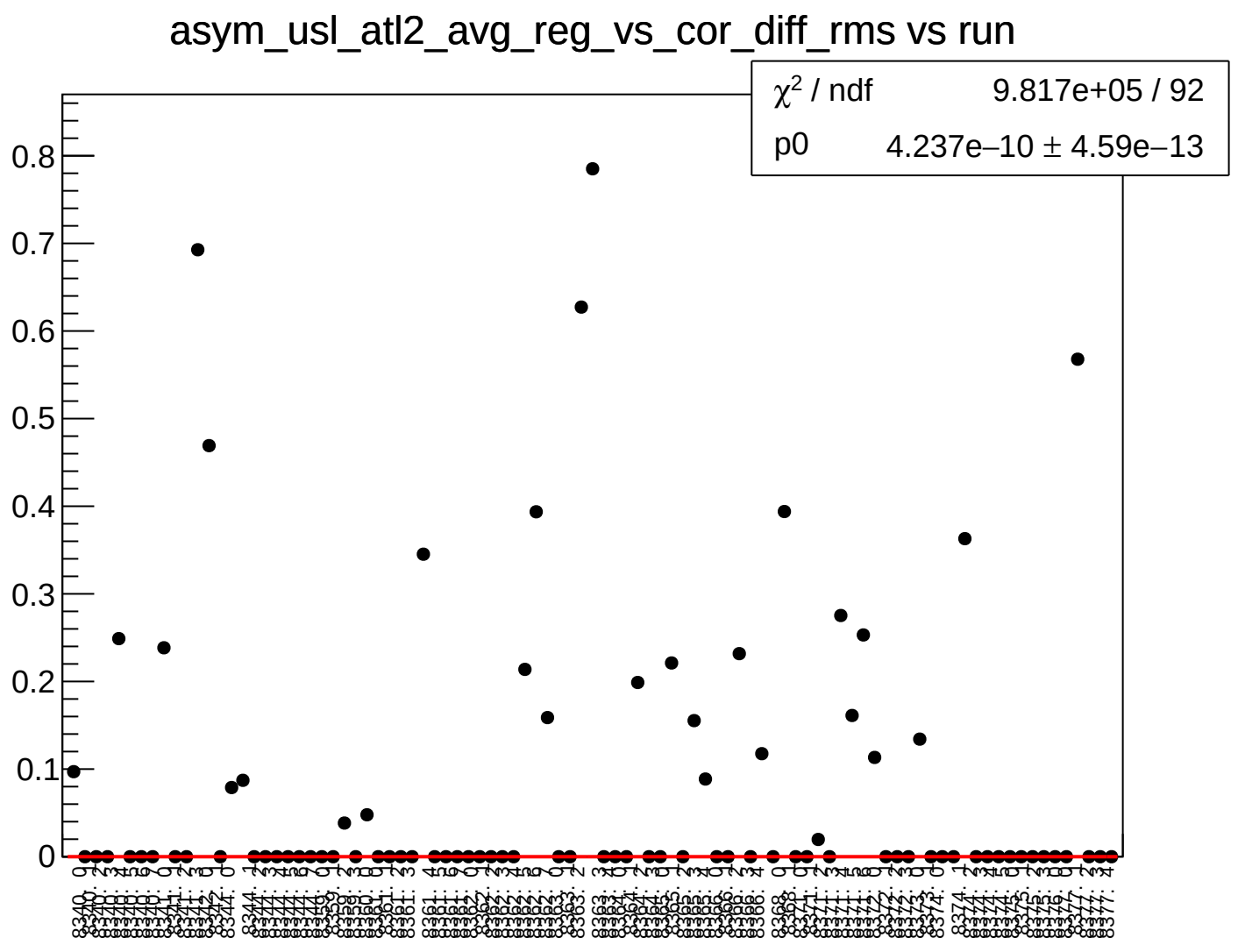

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3293 / 92
p0 4596 ± 3.397
5000
4800
4600
4400
4200
4000

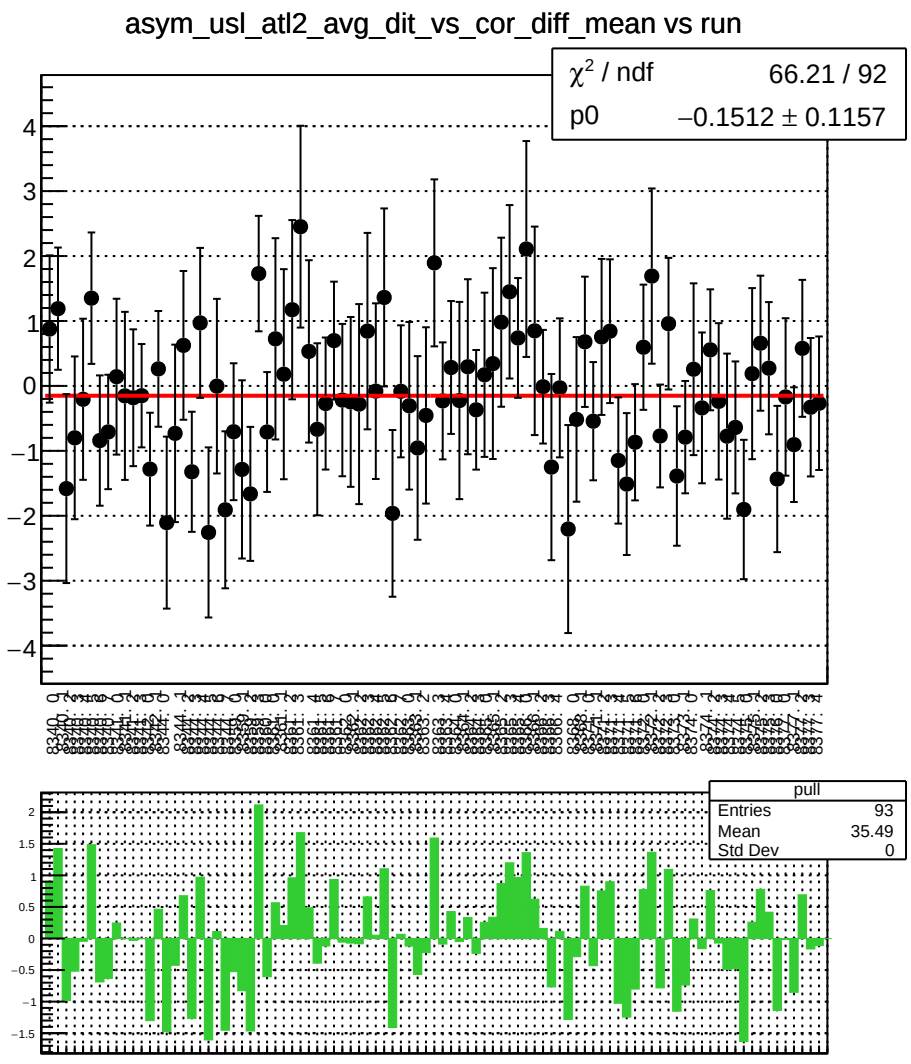

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 91.66 / 92
p0 1.139e+04 ± 5024
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −484.1
Std Dev 0
2
1
0
−1
−2
−3

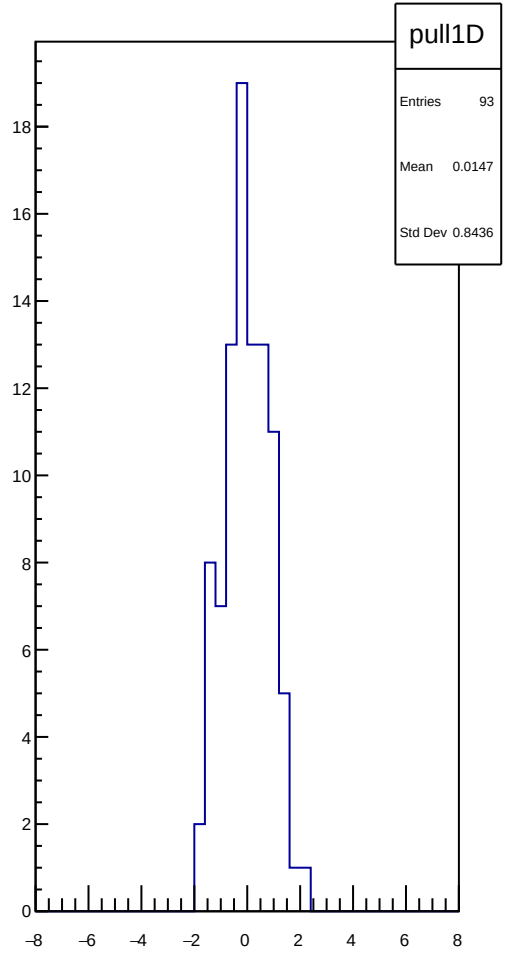

pull1D
Entries 93
Mean −0.002627
Std Dev 0.9928
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

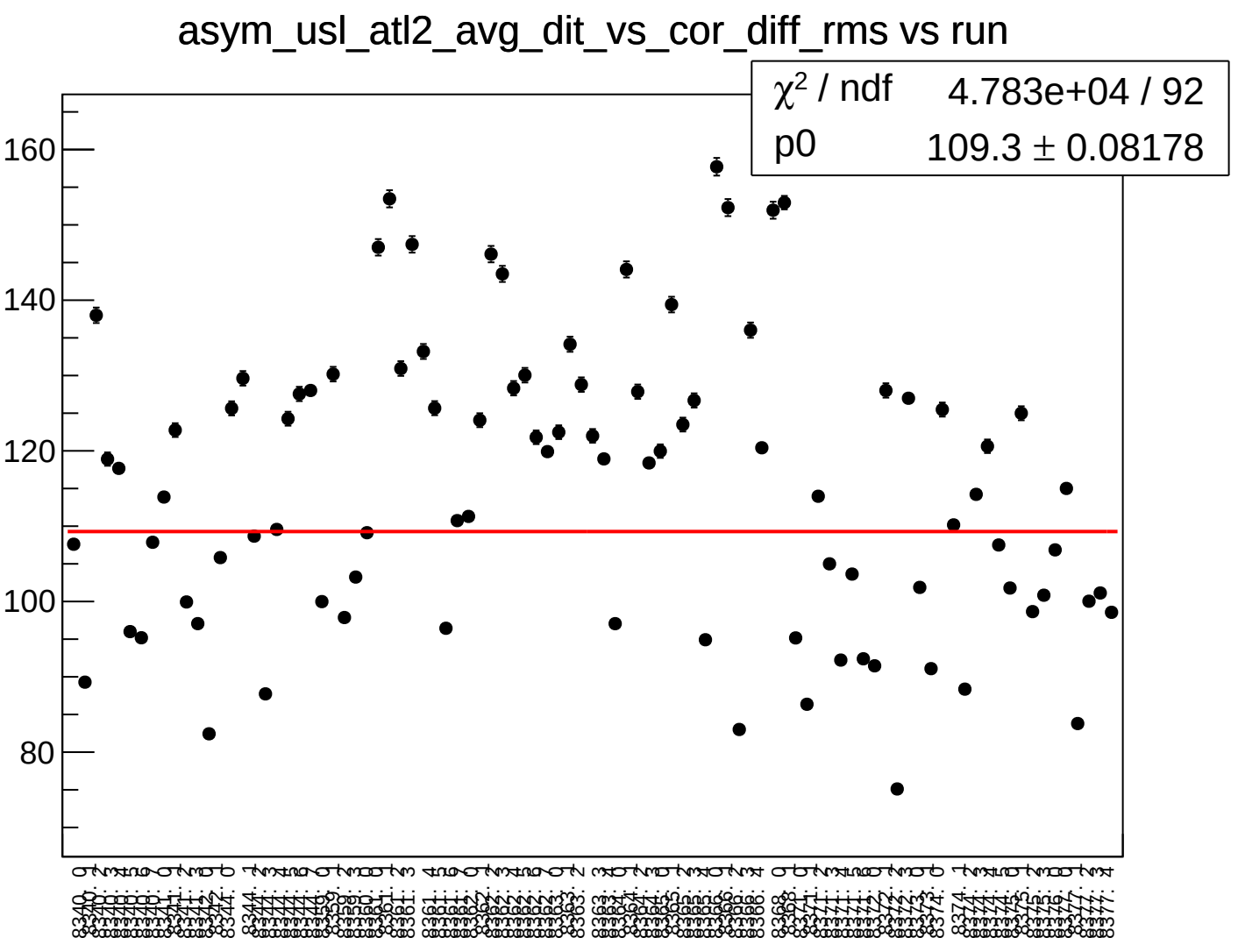

asym_usl_atl2_avg_rms vs run
χ² / ndf 3197 / 92
p0 4807 ± 3.553
5400
5200
5000
4800
4600
4400

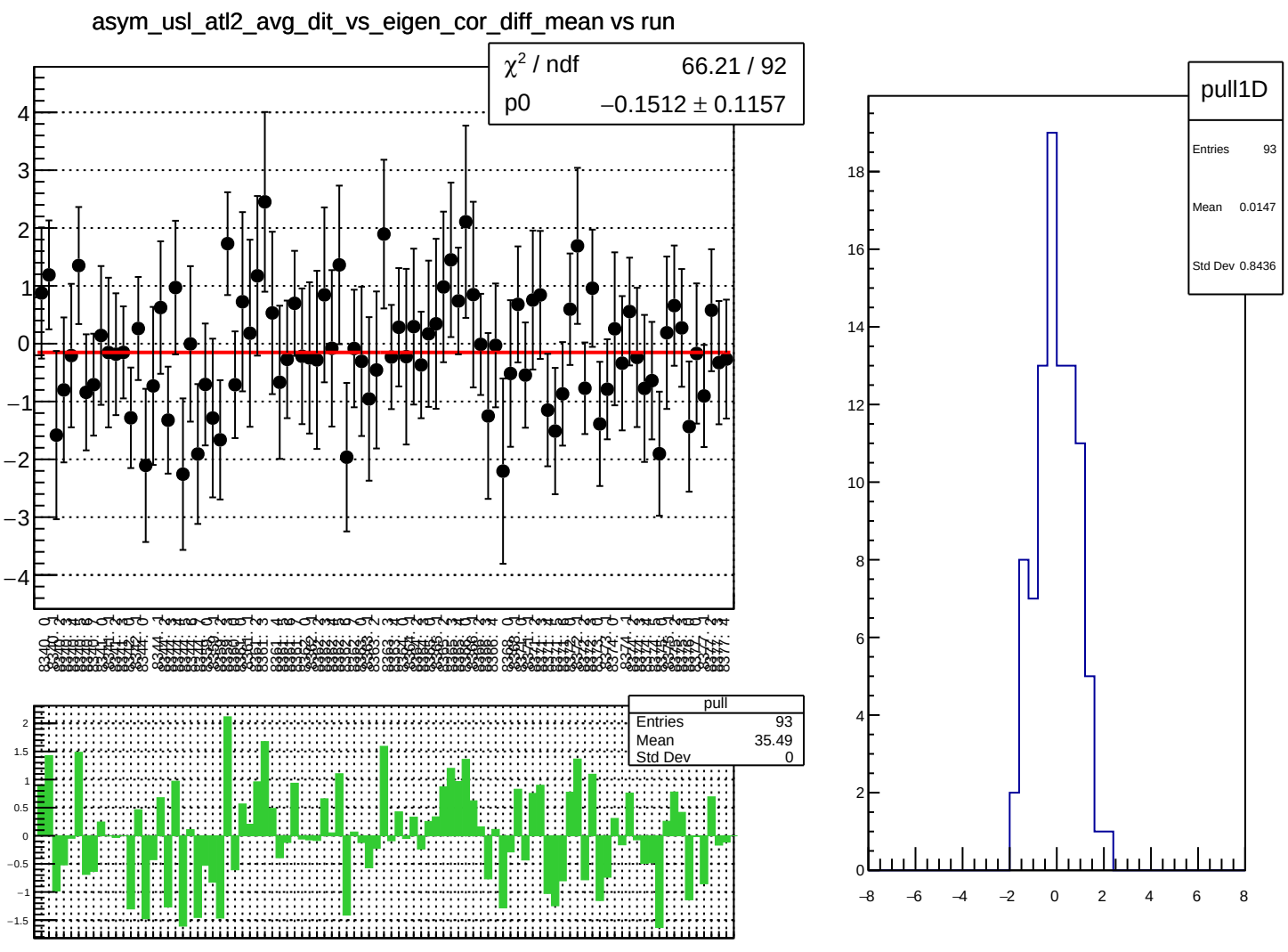

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.07 / 92
p0 −6.877e−13 ± 6.492e−13
pull
Entries 93
Mean 150
Std Dev 0
pull1D
Entries 93
Mean 0.04475
Std Dev 0.9092

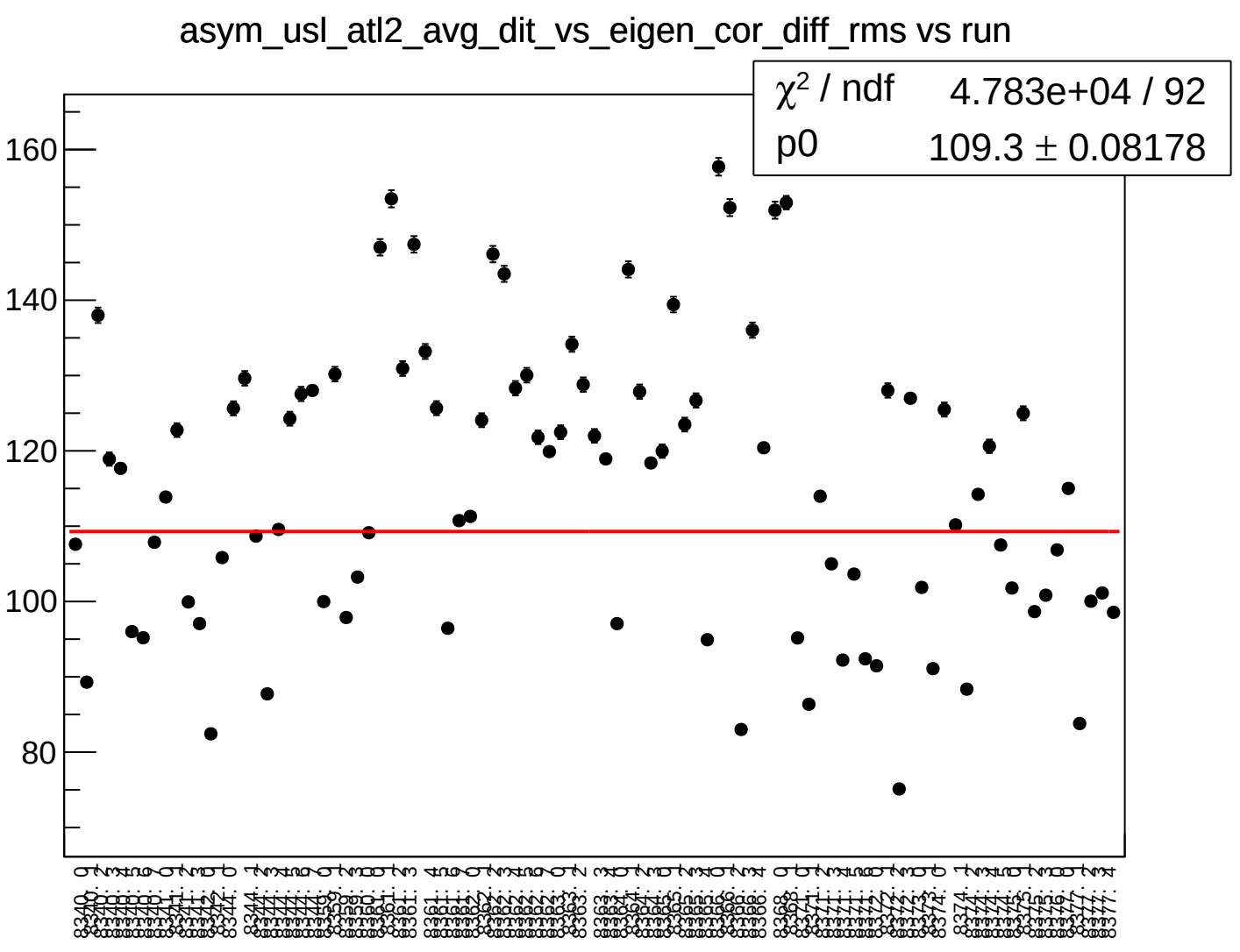

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.817e+05 / 92
p0 4.237e−10 ± 4.59e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

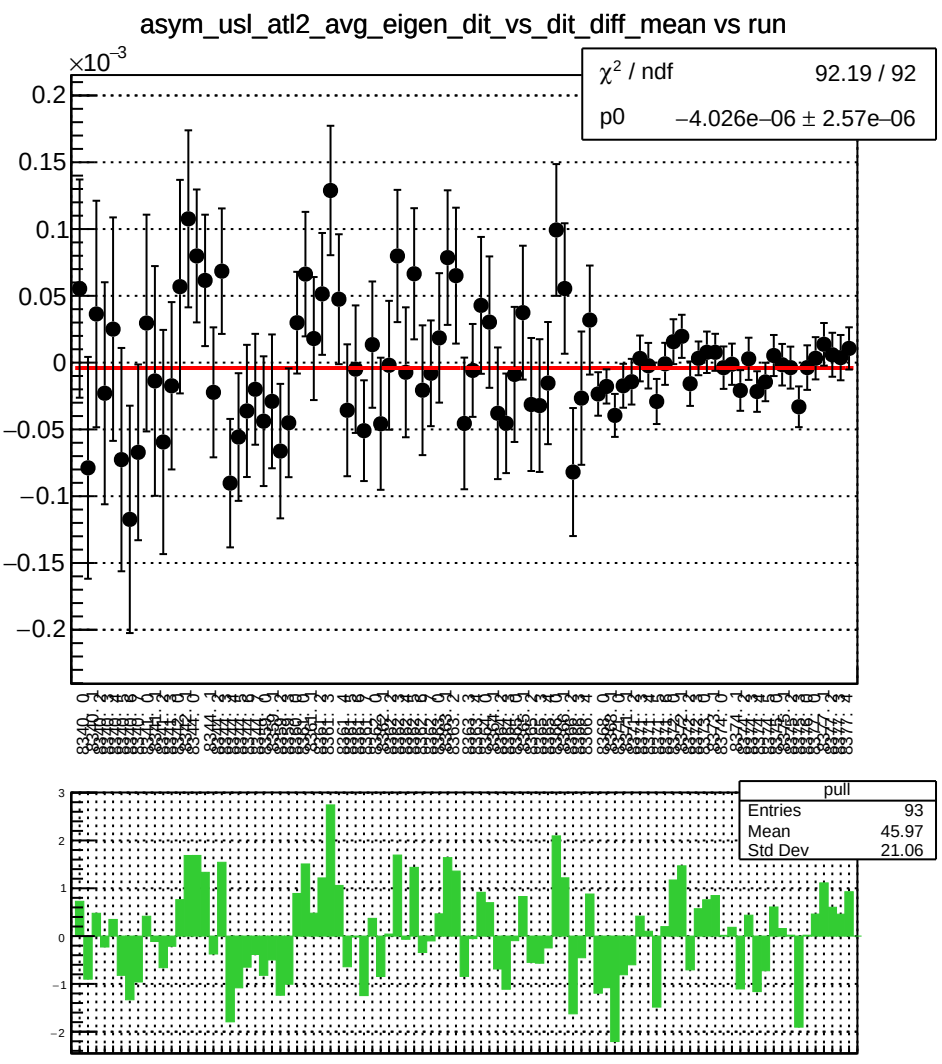

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.21 / 92
p0 −0.1512 ± 0.1157
pull
Entries 93
Mean 35.49
Std Dev 0

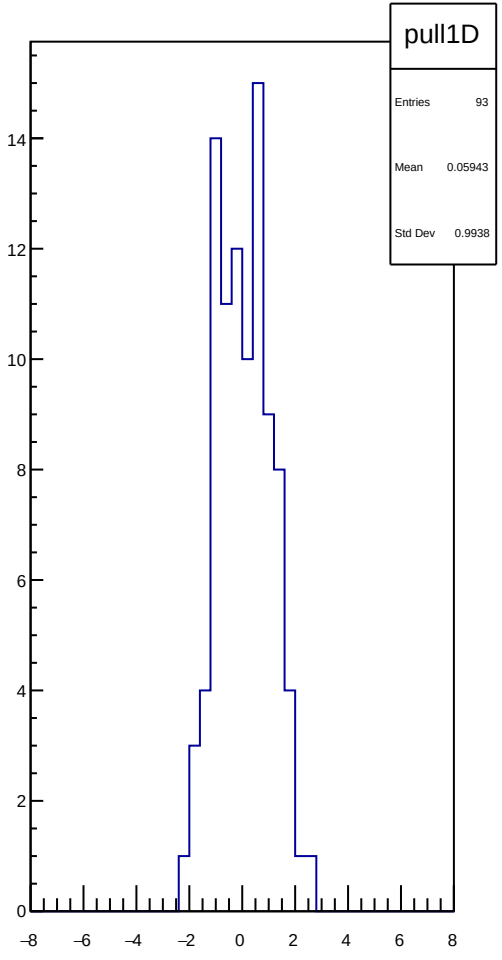

pull1D
Entries 93
Mean 0.0147
Std Dev 0.8436

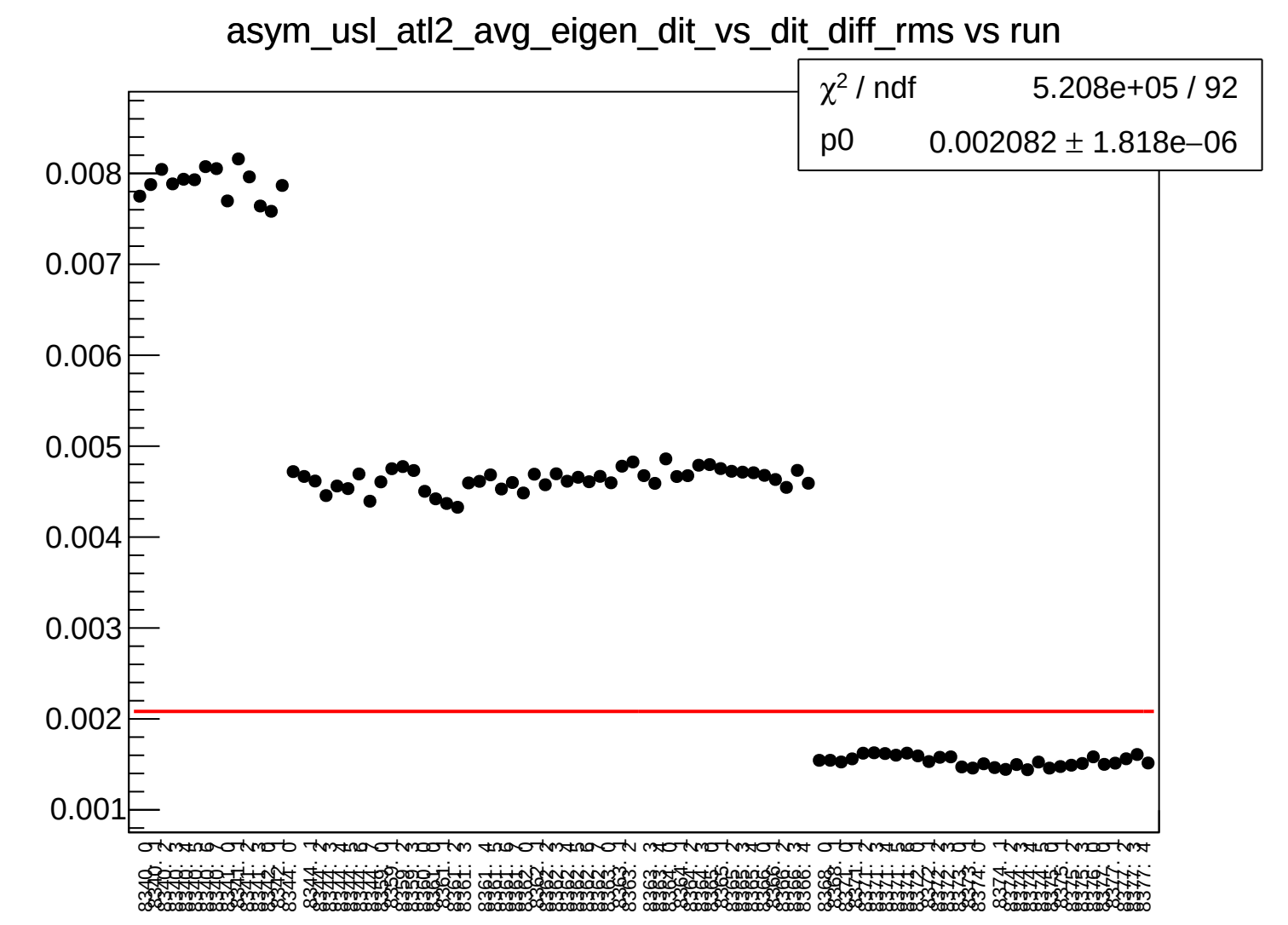

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.783e+04 / 92
p0 109.3 ± 0.08178
160
140
120
100
80

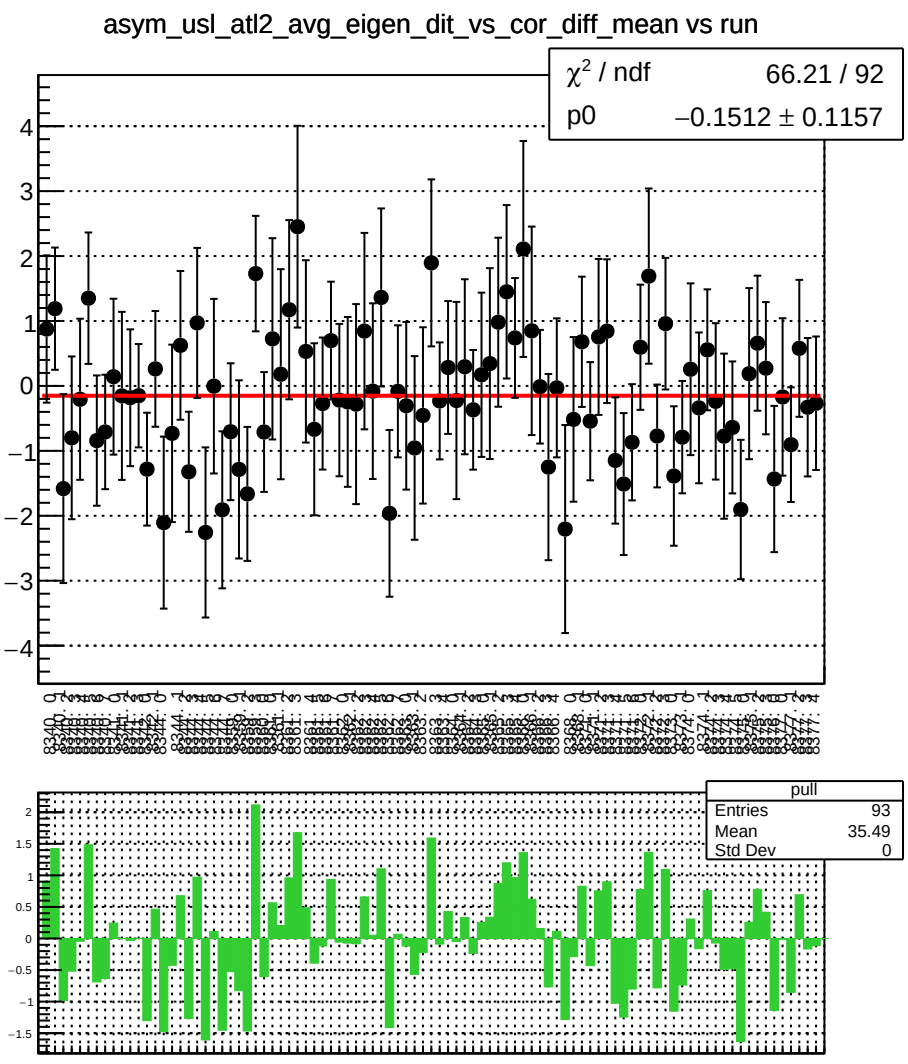

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.21 / 92
p0 −0.1512 ± 0.1157
pull
Entries 93
Mean 35.49
Std Dev 0
pull1D
Entries 93
Mean 0.0147
Std Dev 0.8436

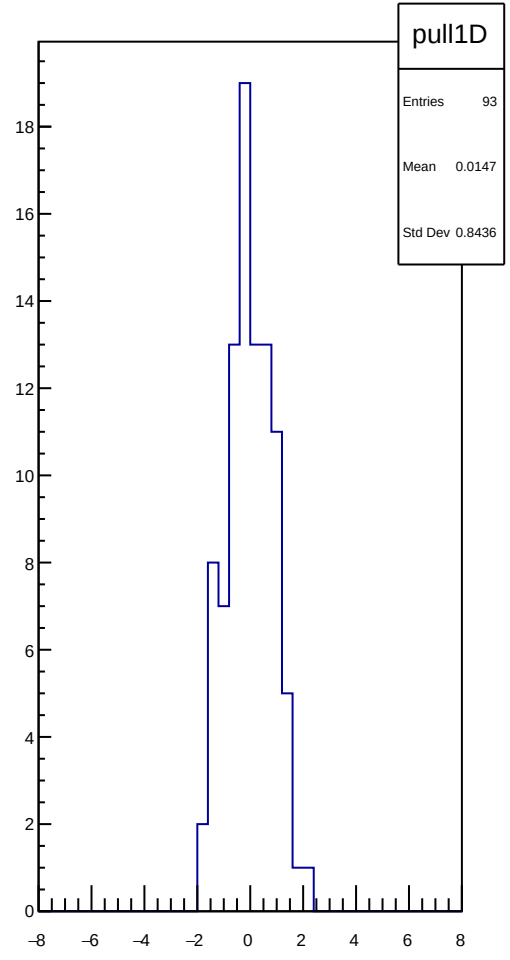

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.783e+04 / 92
p0 109.3 ± 0.08178
160
140
120
100
80

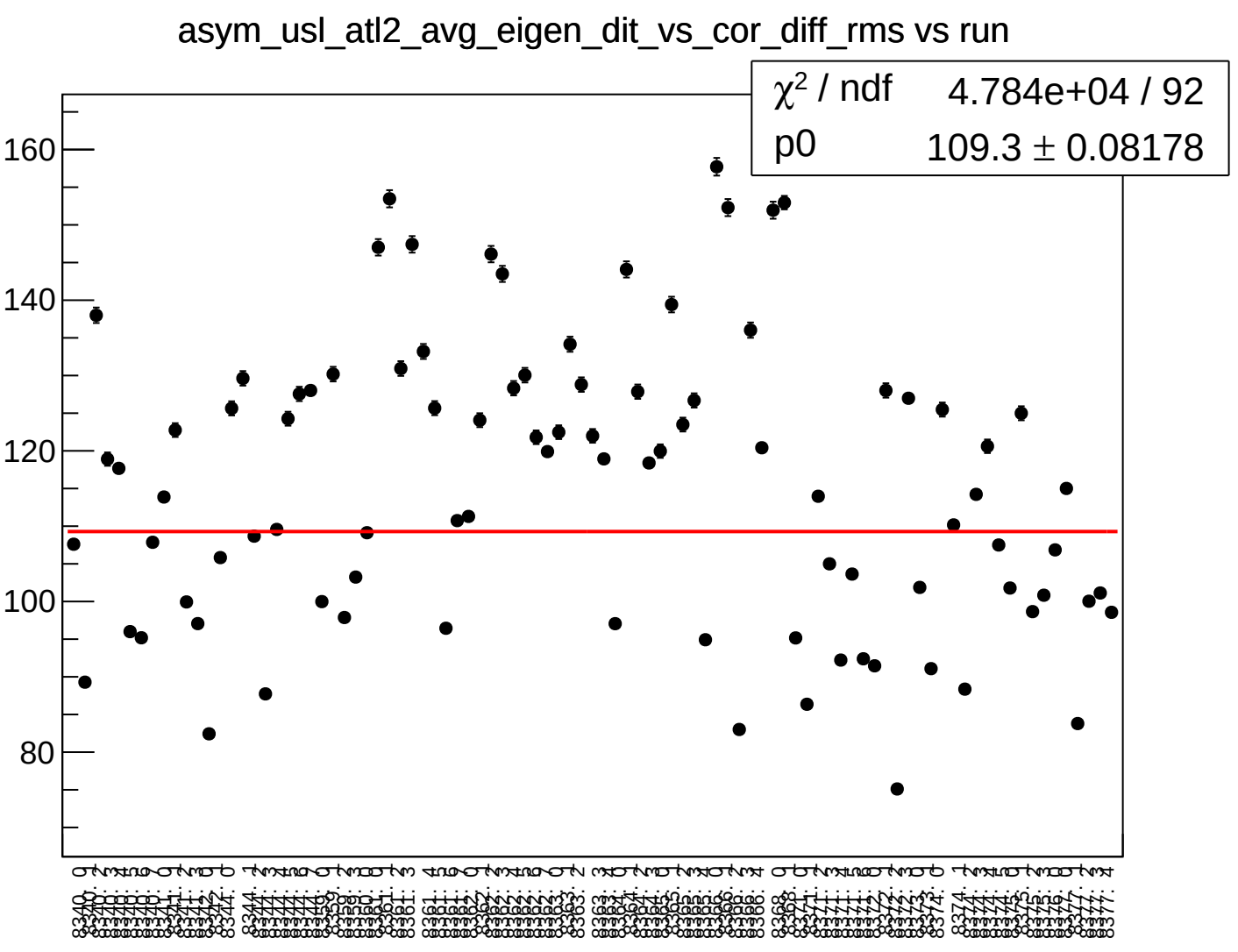

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.19 / 92
p0 −4.026e−06 ± 2.57e−06
pull
Entries 93
Mean 45.97
Std Dev 21.06

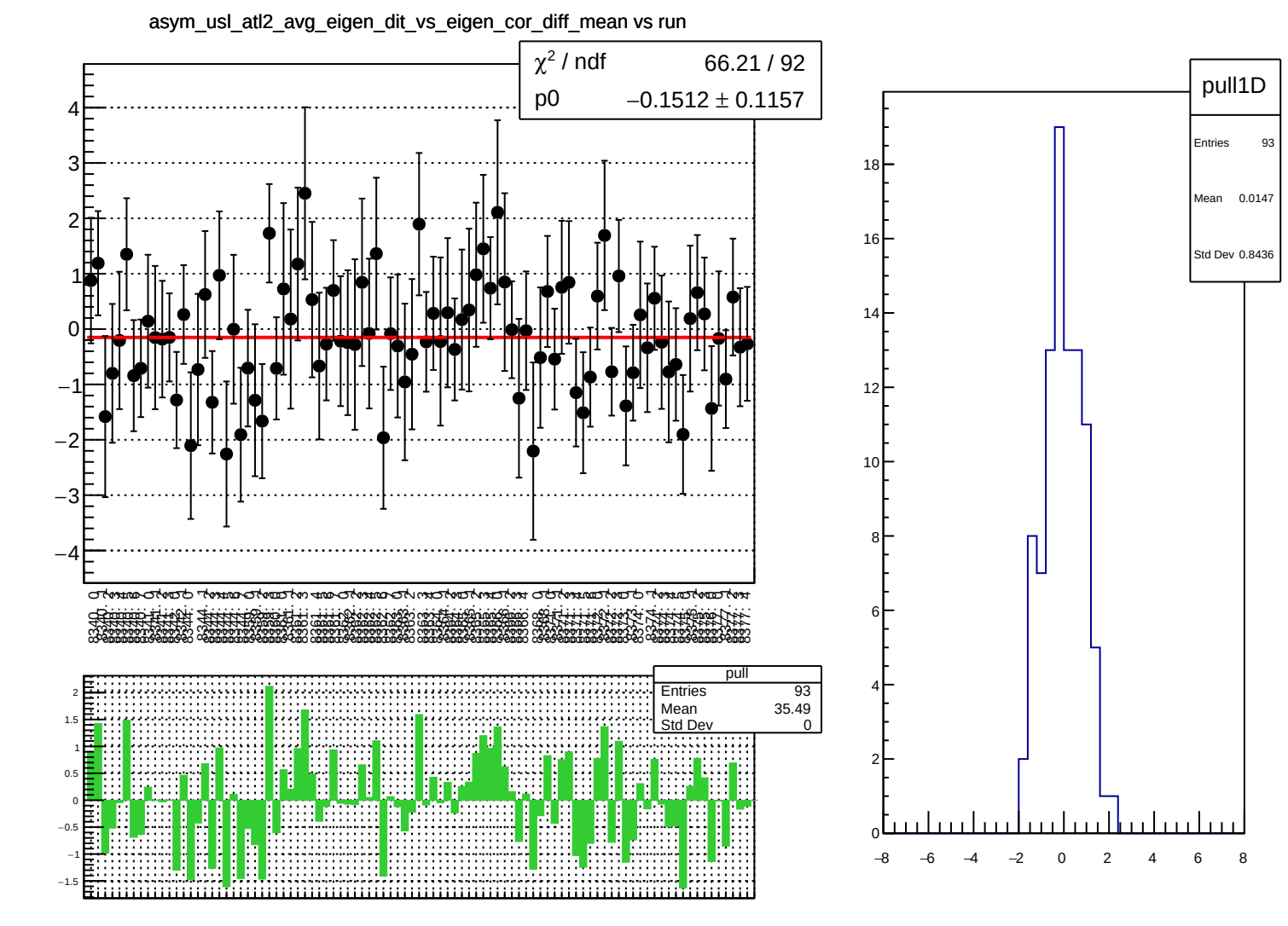

pull1D
Entries 93
Mean 0.05943
Std Dev 0.9938

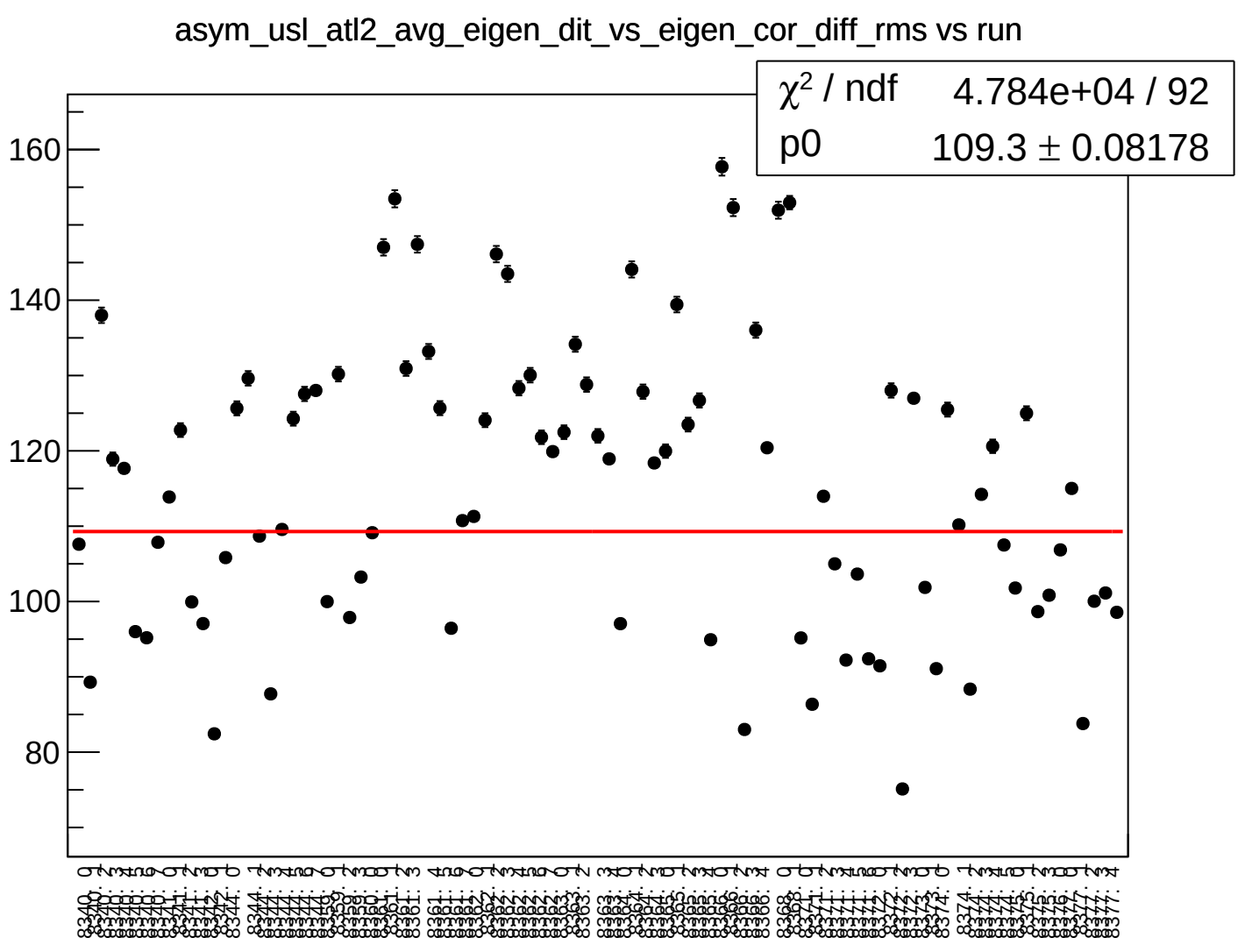

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.208e+05 / 92
p0 0.002082 ± 1.818e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

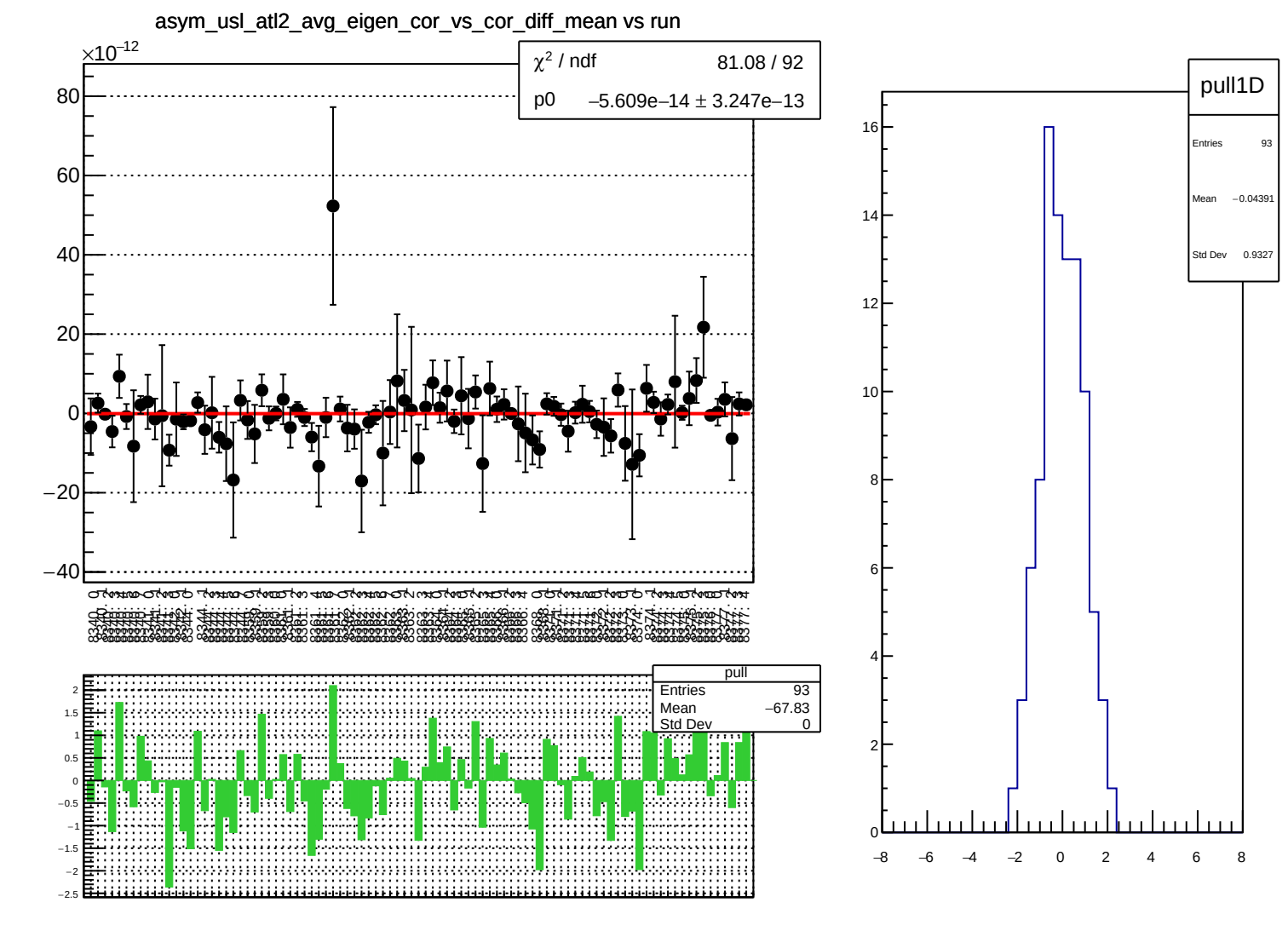

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.21 / 92
p0 −0.1512 ± 0.1157
pull
Entries 93
Mean 35.49
Std Dev 0

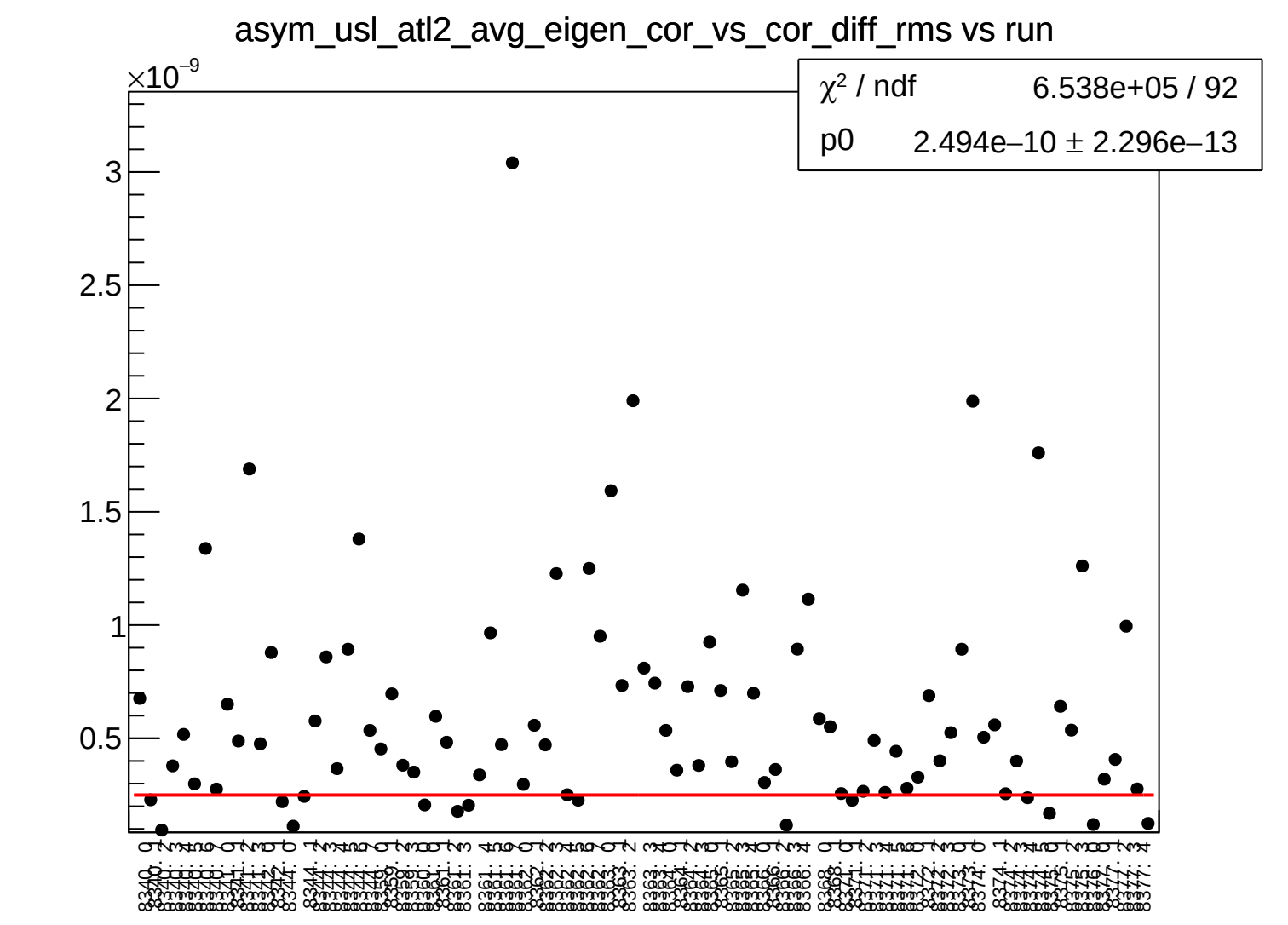

pull1D
Entries 93
Mean 0.0147
Std Dev 0.8436

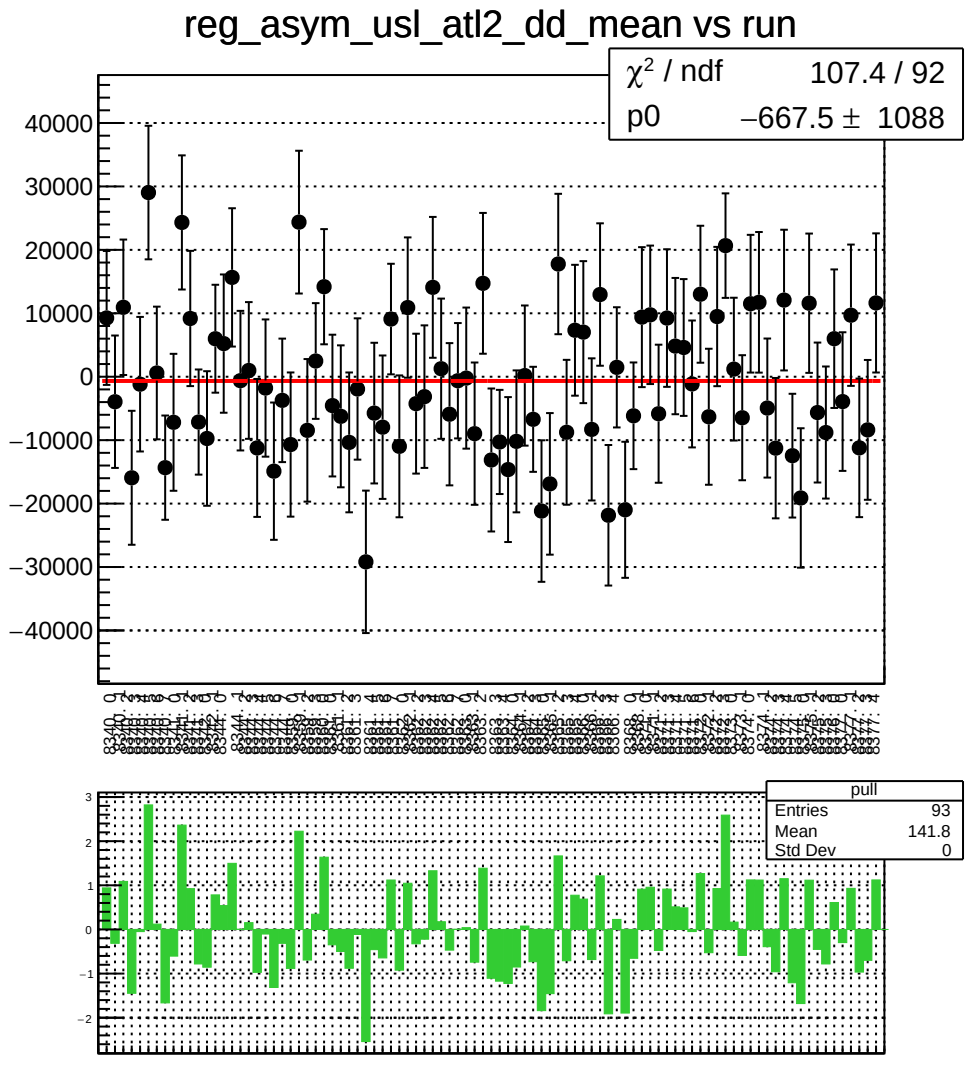

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.784e+04 / 92
p0 109.3 ± 0.08178
160
140
120
100
80

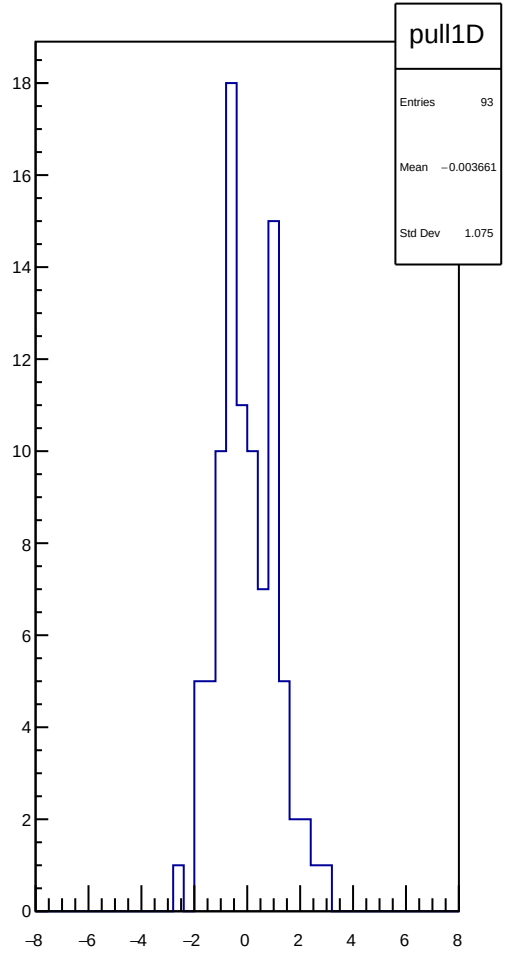

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.21 / 92
p0 −0.1512 ± 0.1157
pull
Entries 93
Mean 35.49
Std Dev 0
pull1D
Entries 93
Mean 0.0147
Std Dev 0.8436

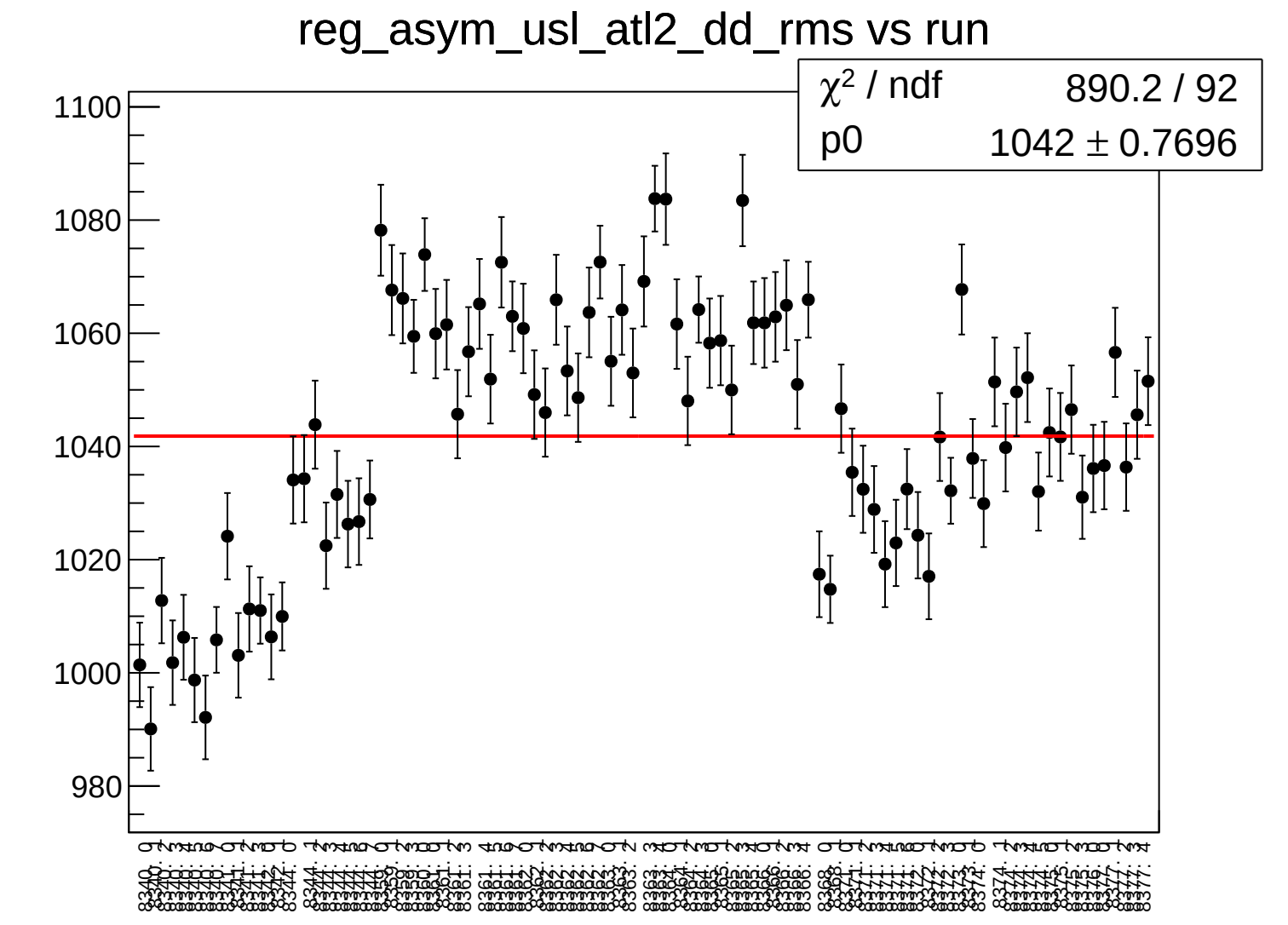

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.784e+04 / 92
p0 109.3 ± 0.08178
160
140
120
100
80

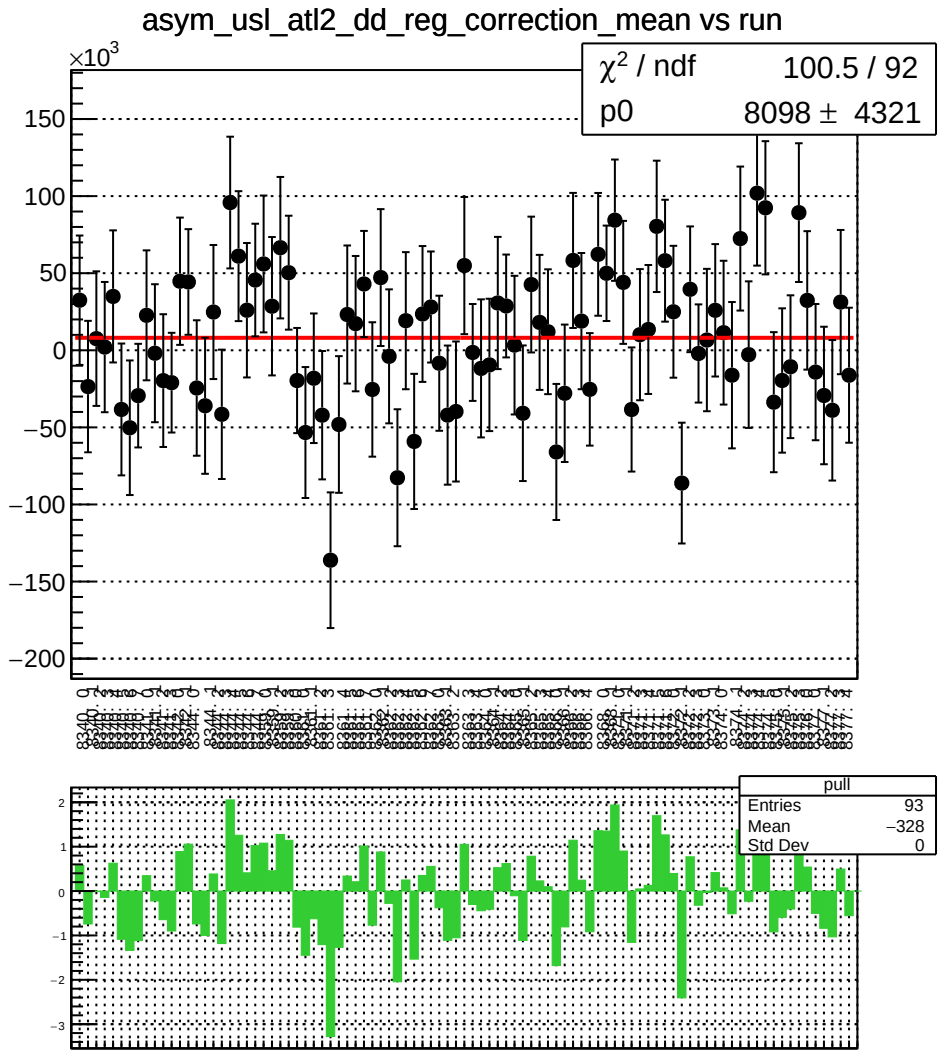

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 81.08 / 92
p0 −5.609e−14 ± 3.247e−13
pull
Entries 93
Mean −67.83
Std Dev 0
pull1D
Entries 93
Mean −0.04391
Std Dev 0.9327

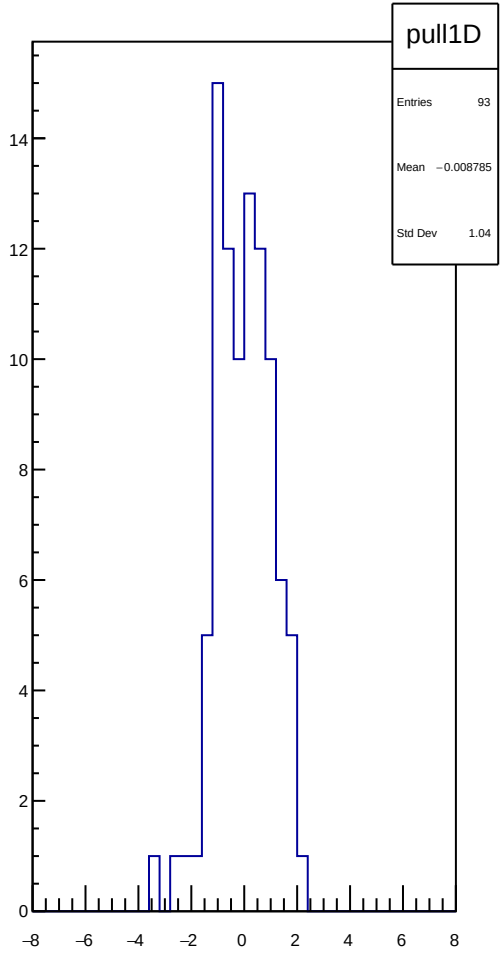

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.538e+05 / 92
p0 2.494e−10 ± 2.296e−13
3
2.5
2
1.5
1
0.5

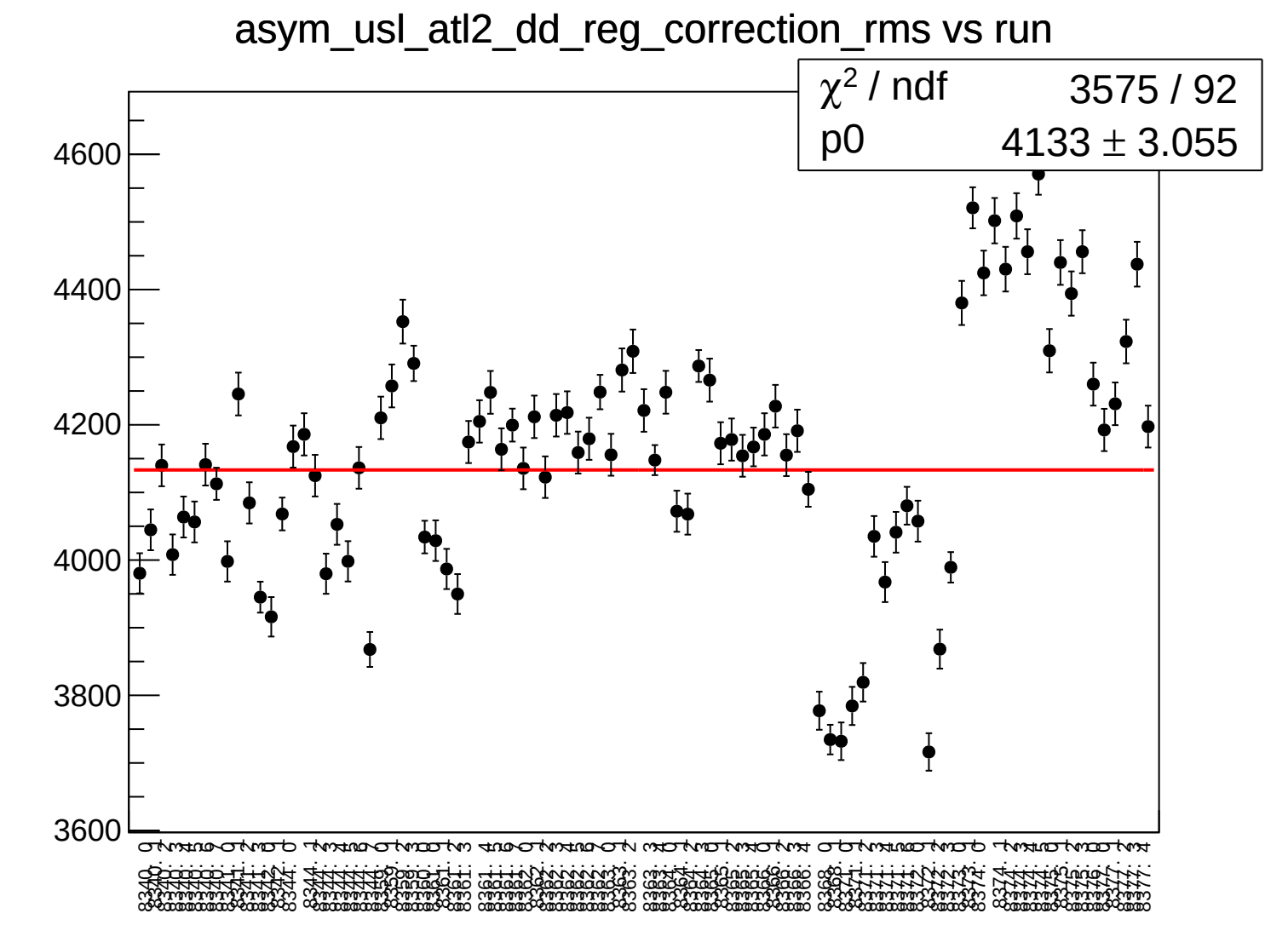

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 107.4 / 92
p0 −667.5 ± 1088
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 141.8
Std Dev 0
3
2
1
0
−1
−2

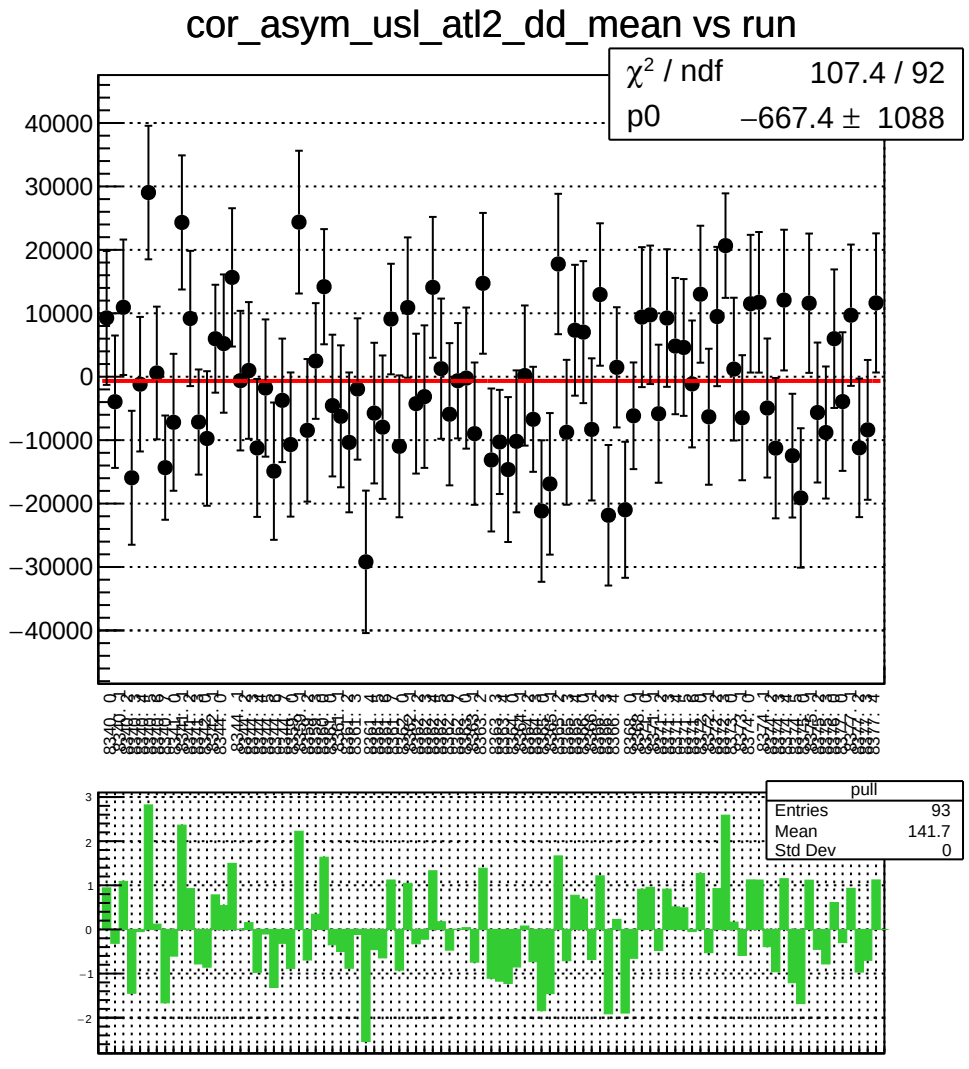

pull1D
Entries 93
Mean −0.003661
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

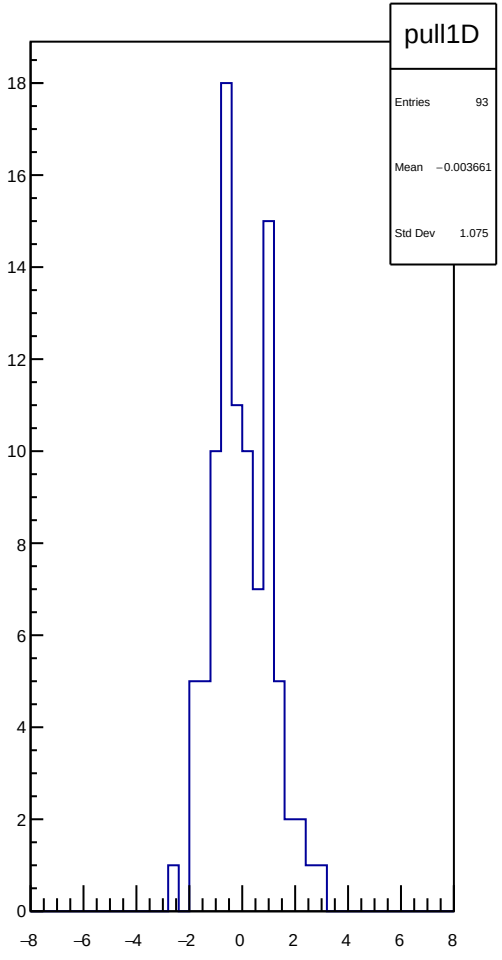

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 890.2 / 92
p0 1042 ± 0.7696
1100
1080
1060
1040
1020
1000
980

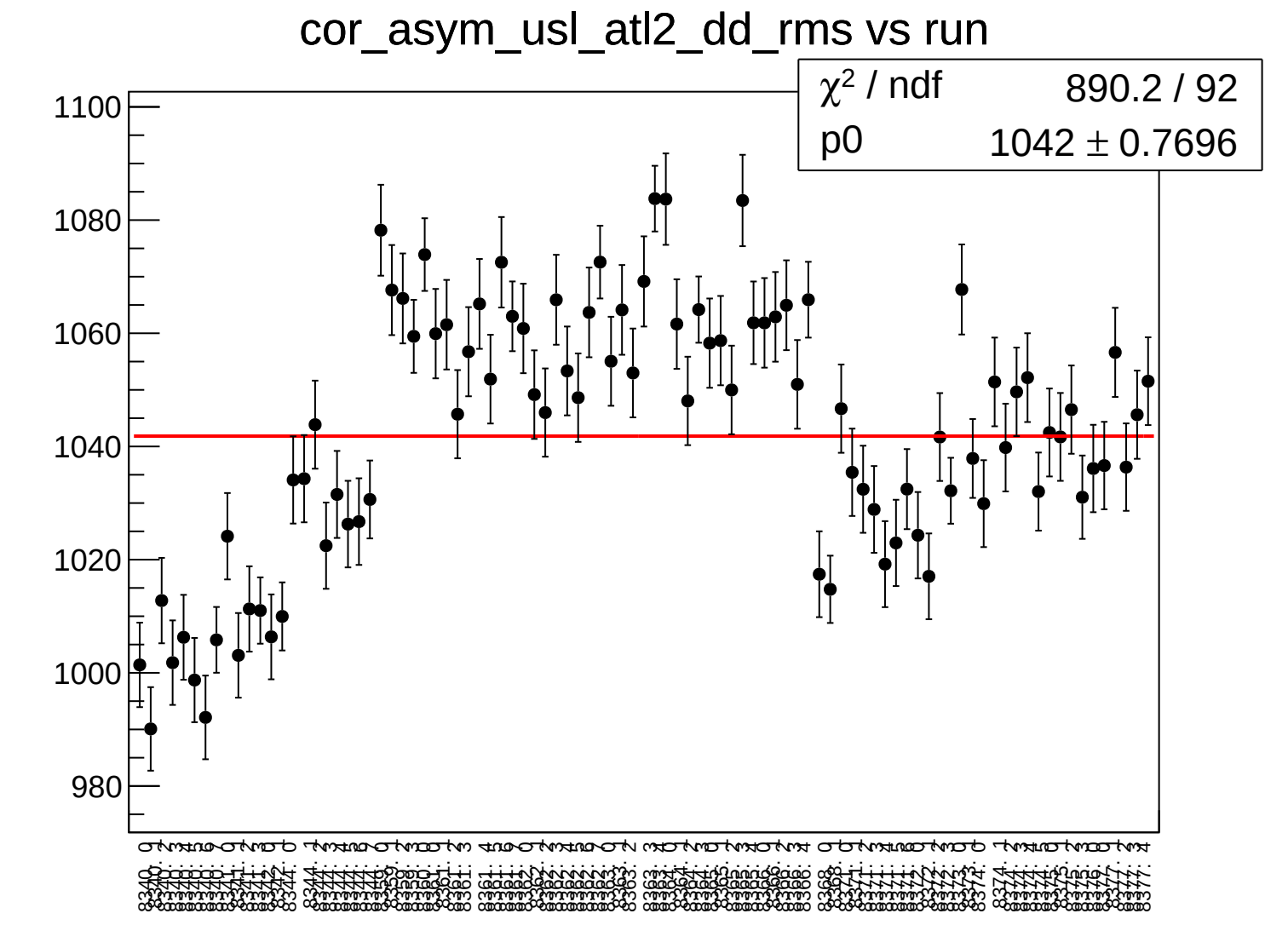

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 92
p0 8098 ± 4321
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −328
Std Dev 0
2
1
0
−1
−2
−3

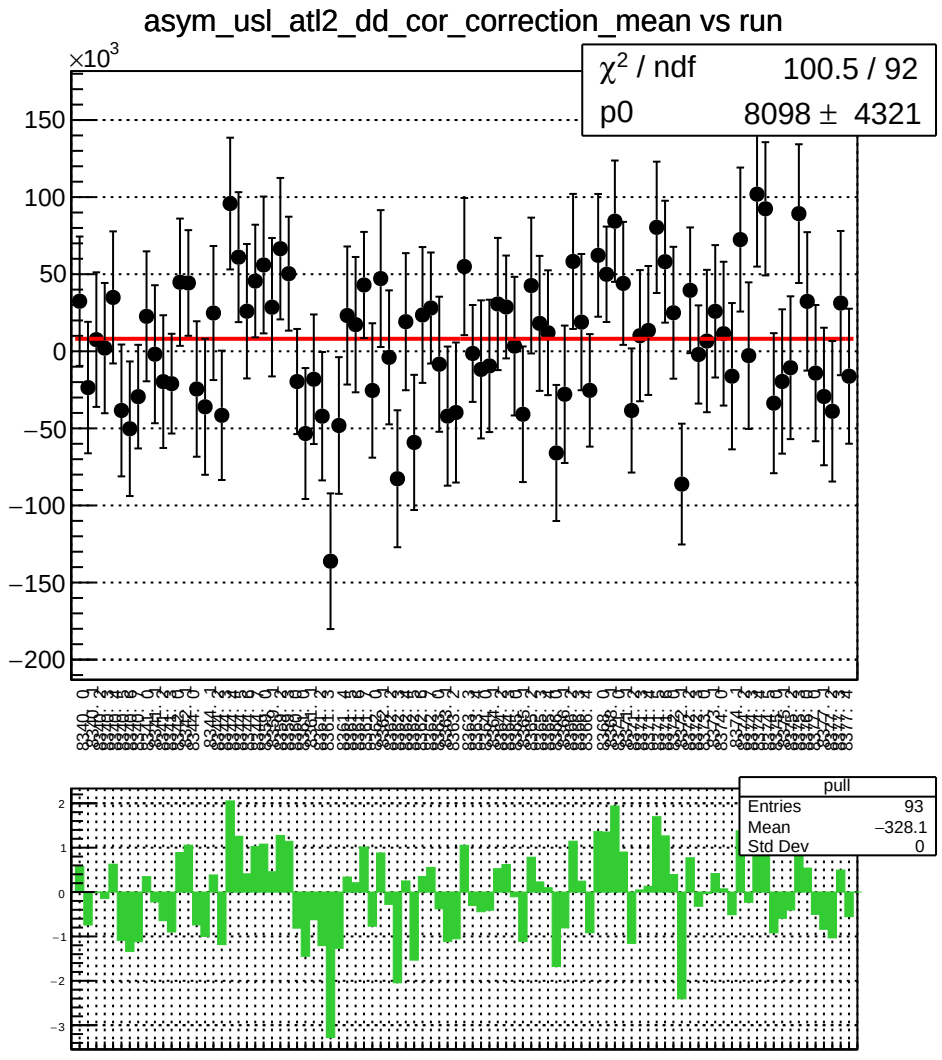

pull1D
Entries 93
Mean −0.008785
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

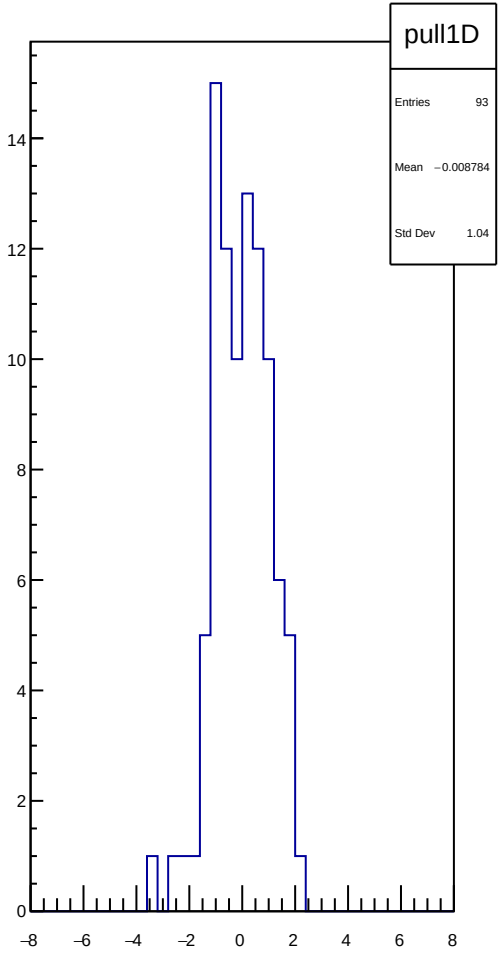

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 3575 / 92
p0 4133 ± 3.055
4600
4400
4200
4000
3800
3600

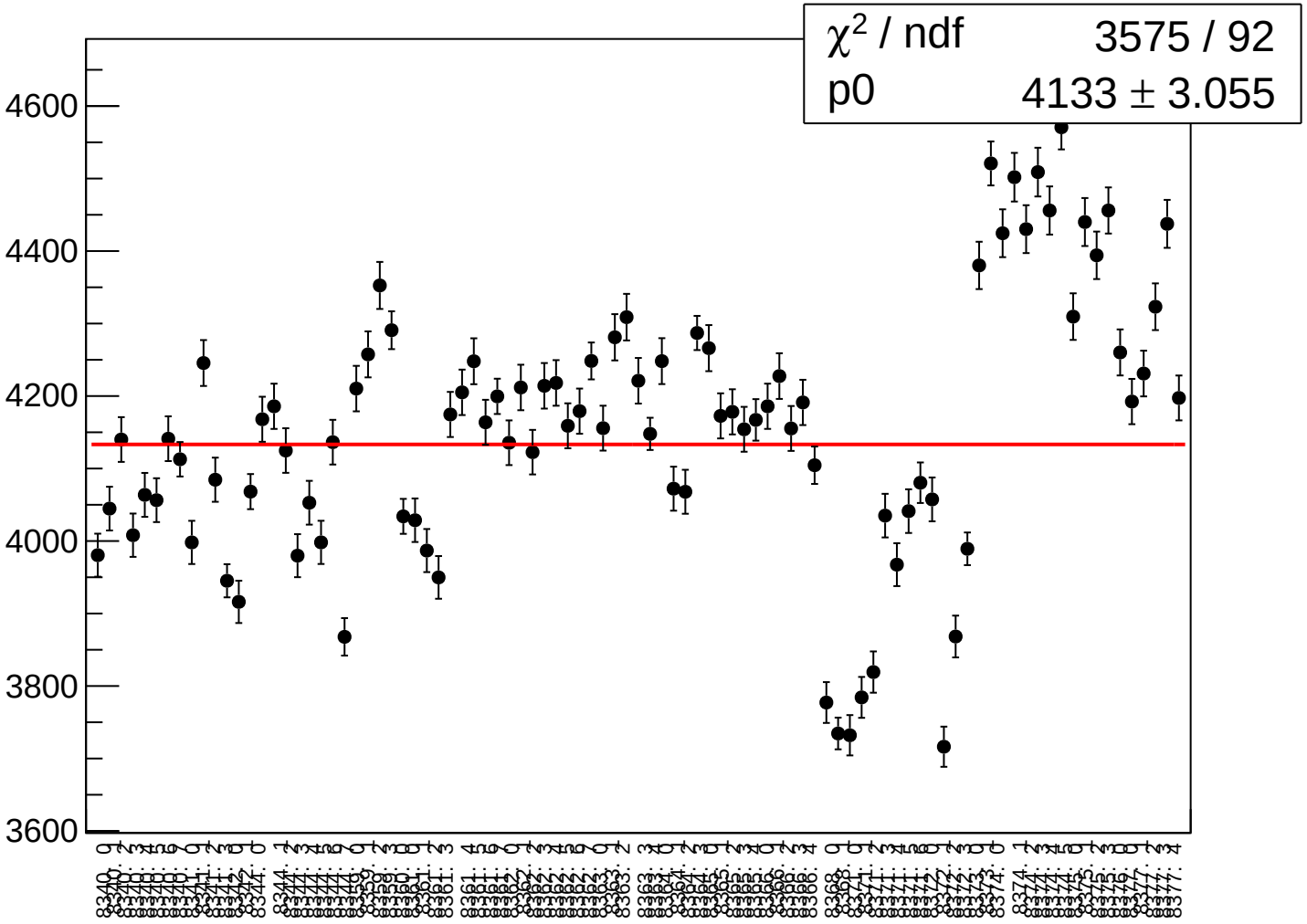

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 107.4 / 92
p0 −667.4 ± 1088
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 141.7
Std Dev 0
3
2
1
0
−1
−2

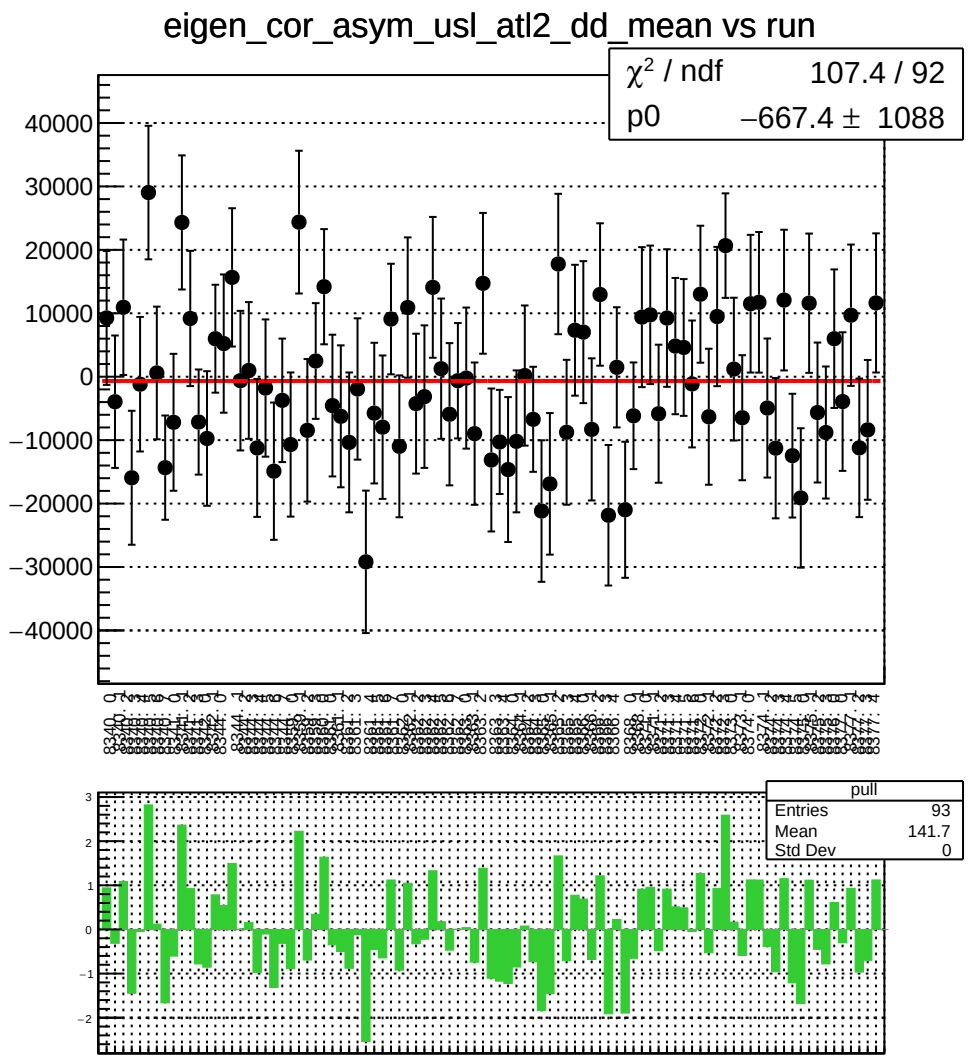

pull1D
Entries 93
Mean −0.003661
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

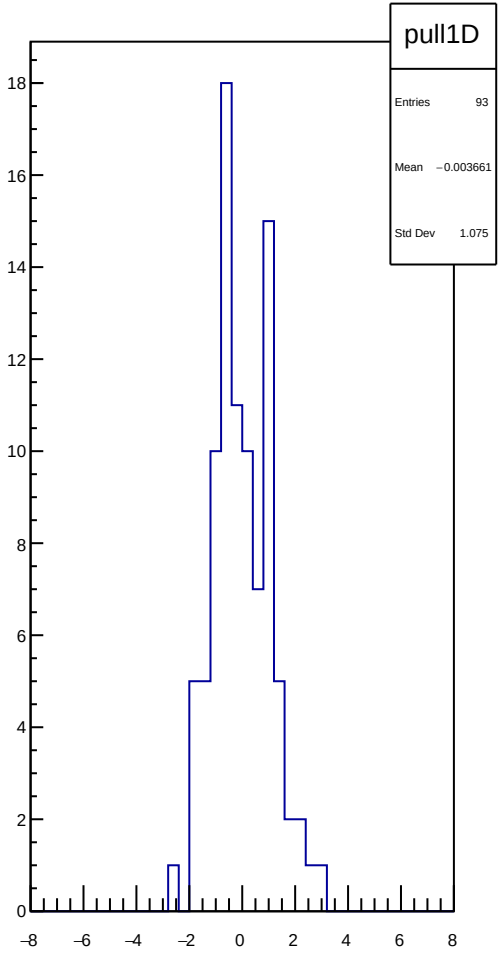

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 890.2 / 92
p0 1042 ± 0.7696
1100
1080
1060
1040
1020
1000
980

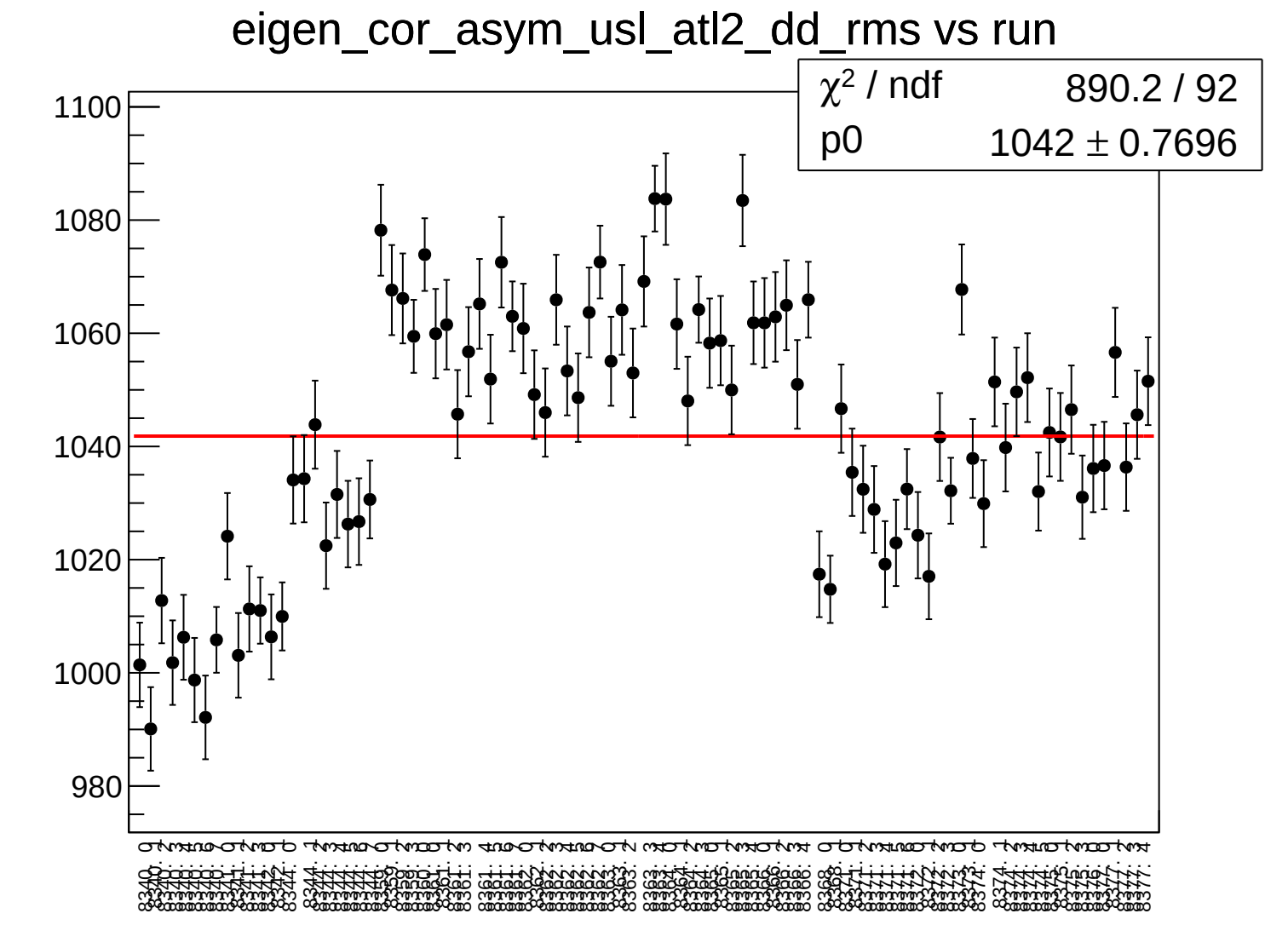

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 92
p0 8098 ± 4321
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −328.1
Std Dev 0
2
1
0
−1
−2
−3

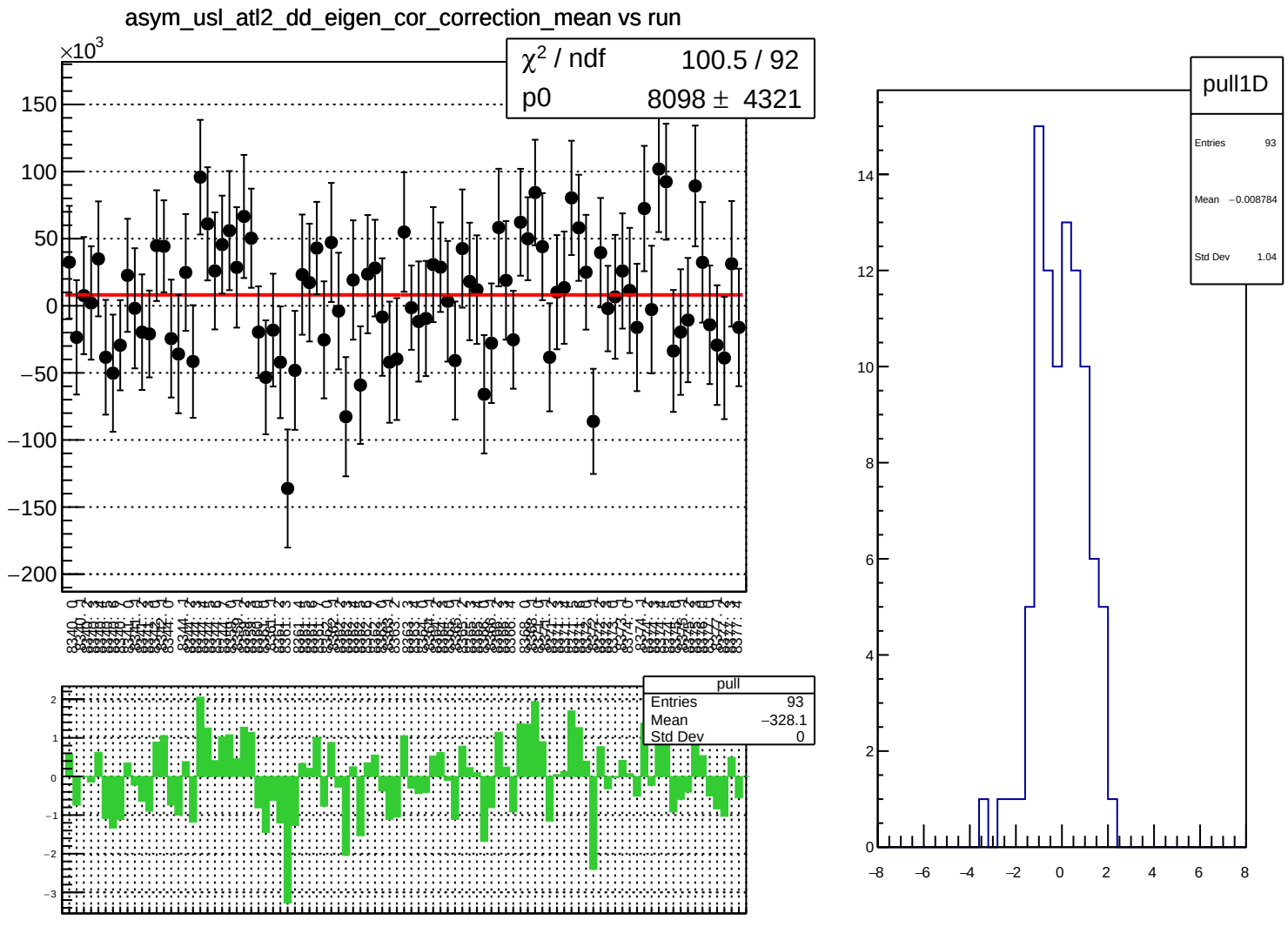

pull1D
Entries 93
Mean −0.008784
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

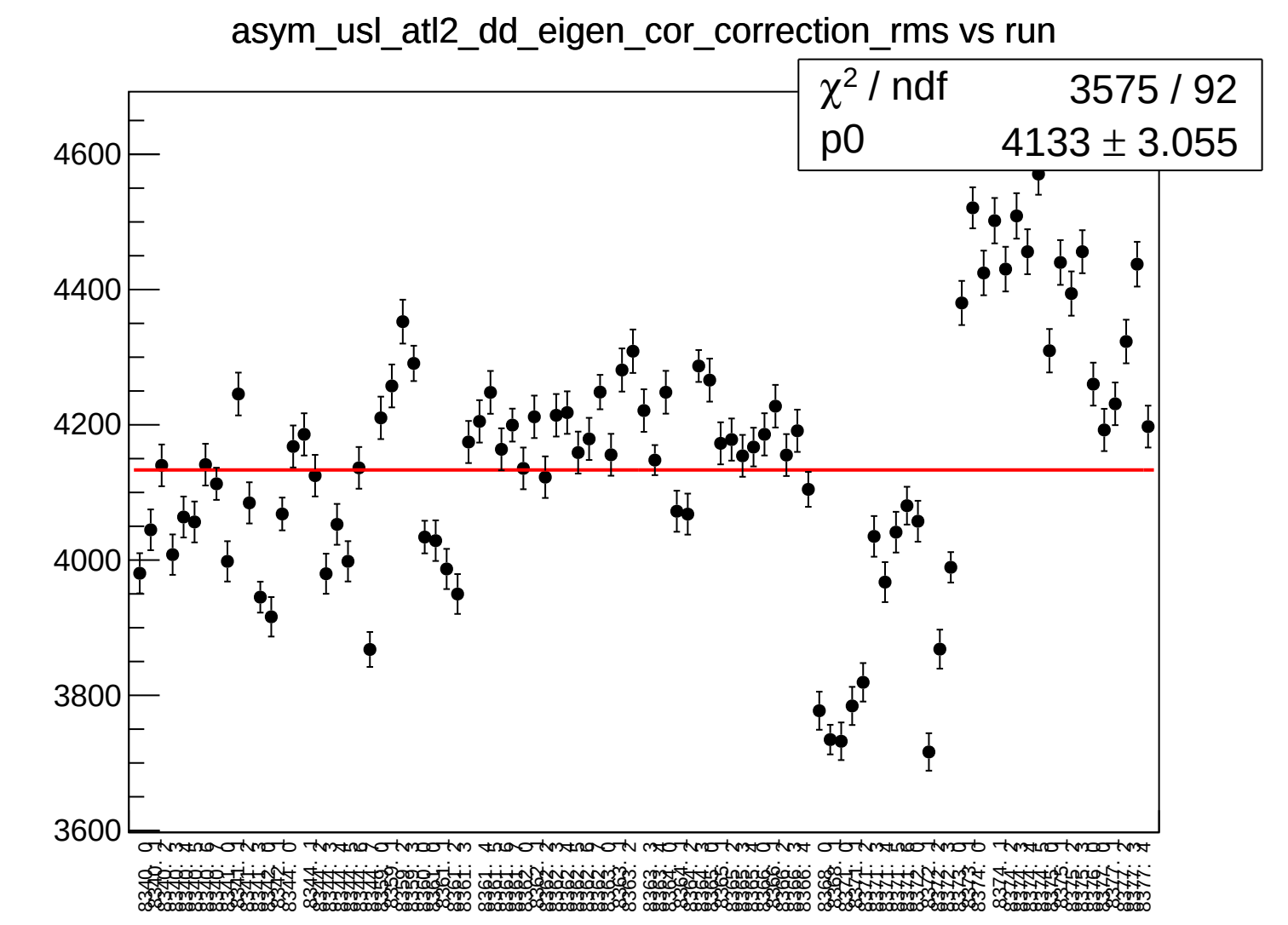

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 3575 / 92
p0 4133 ± 3.055
4600
4400
4200
4000
3800
3600

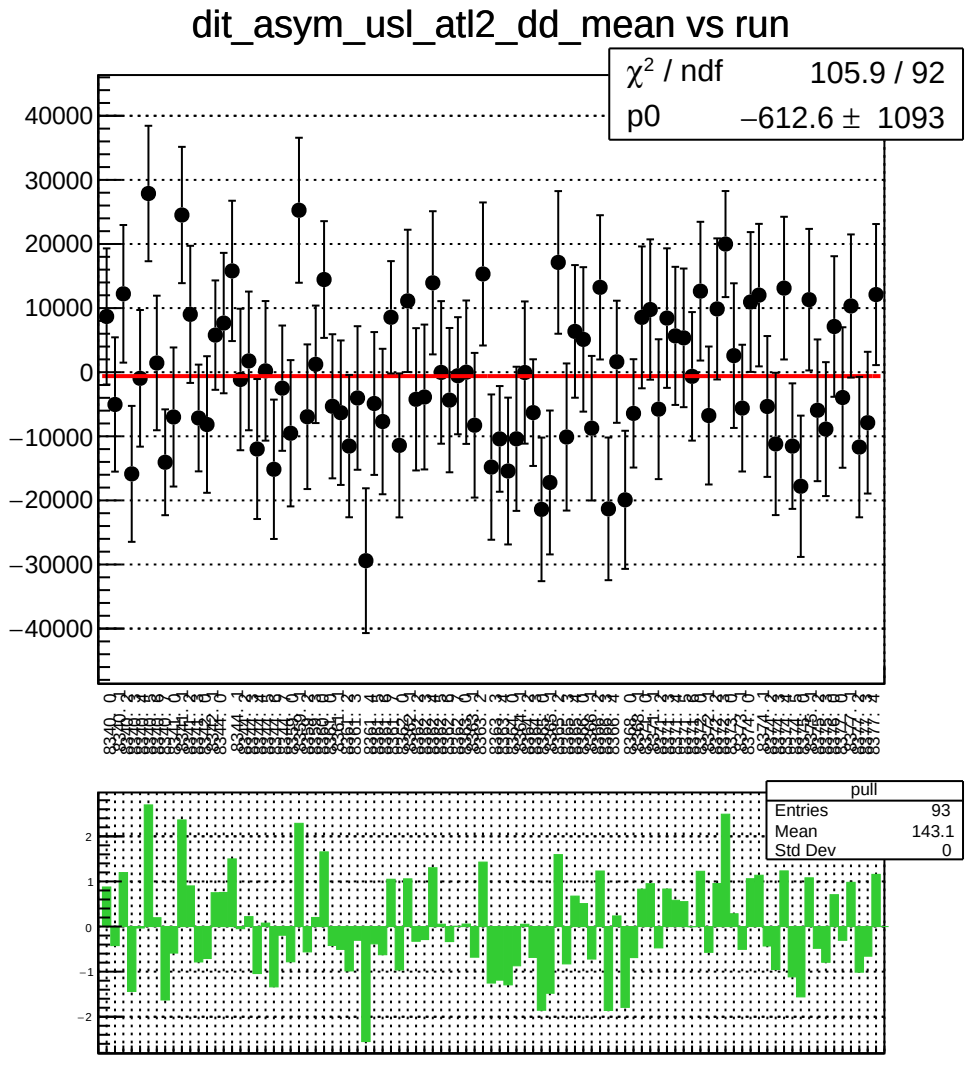

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 107.4 / 92
p0 −667.4 ± 1088
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 141.7
Std Dev 0
3
2
1
0
−1
−2

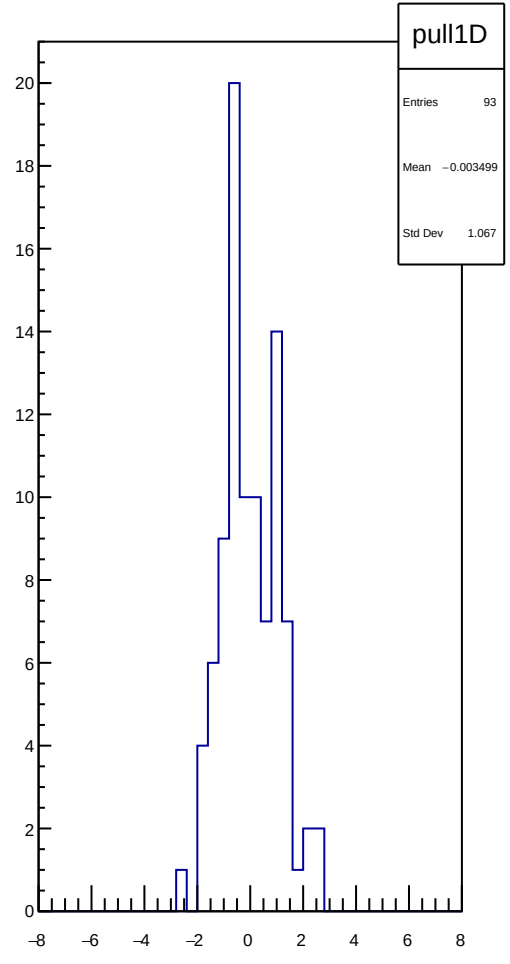

pull1D
Entries 93
Mean −0.003661
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

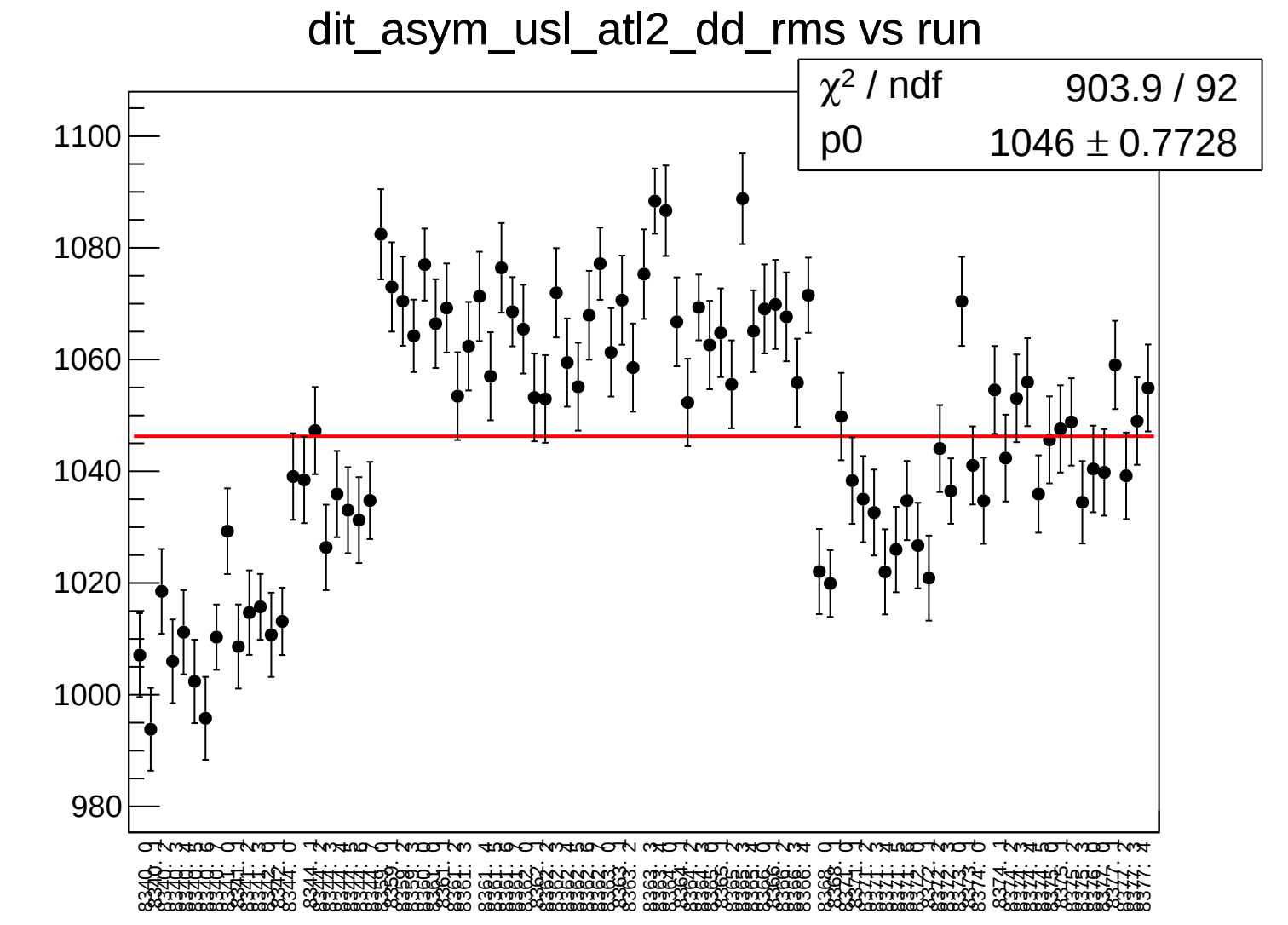

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 890.2 / 92
p0 1042 ± 0.7696
1100
1080
1060
1040
1020
1000
980

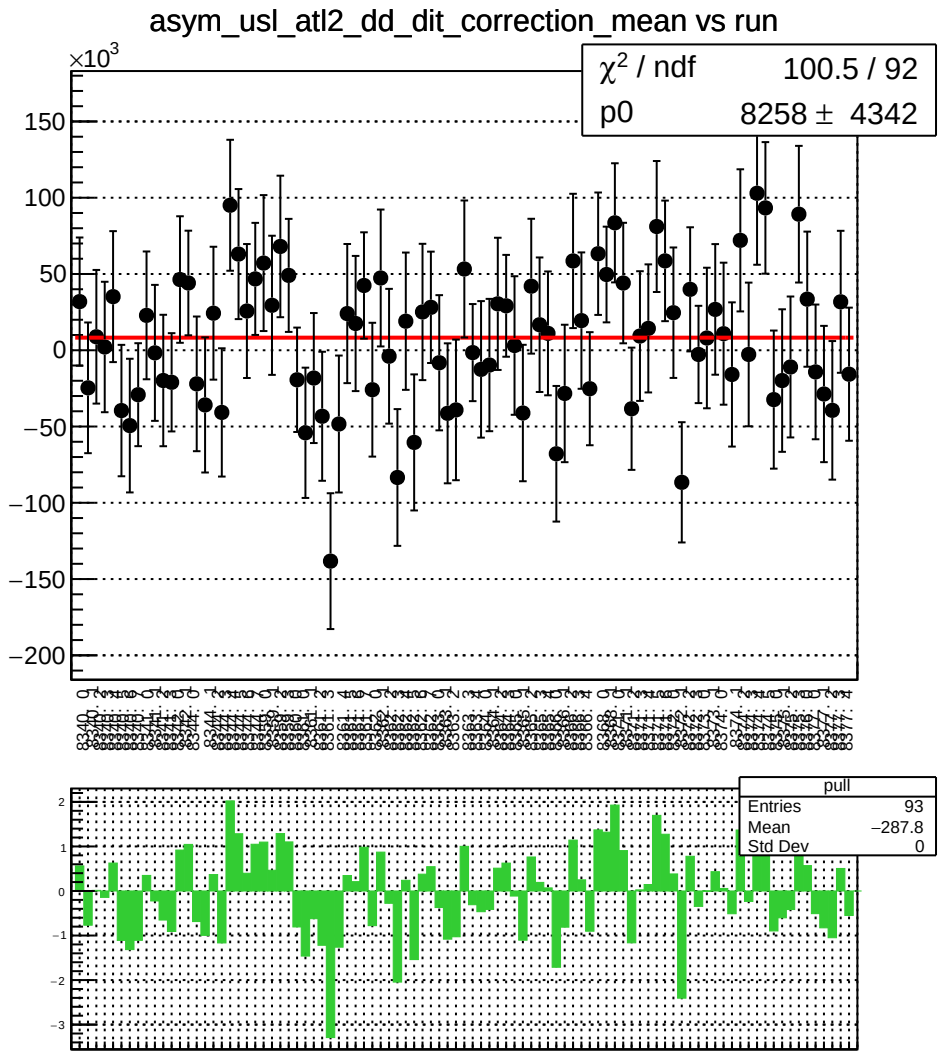

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 92
p0 8098 ± 4321
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −328.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.008784
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

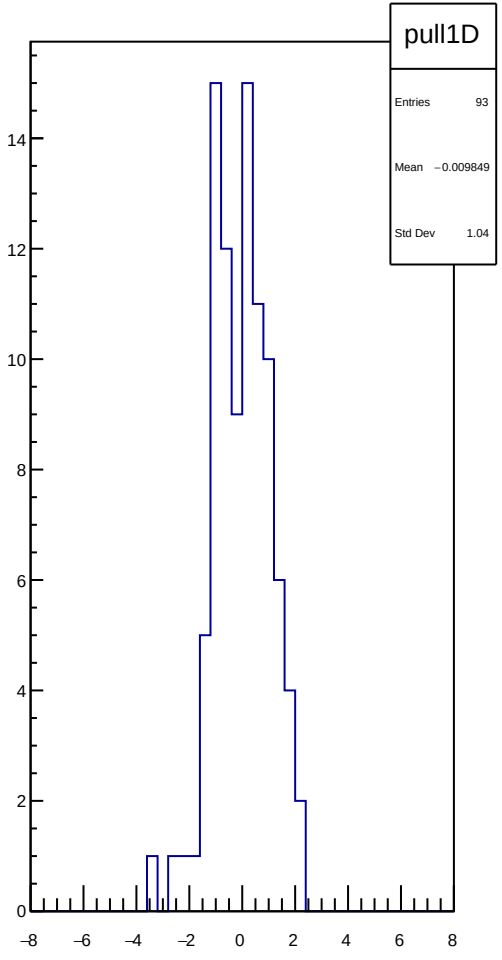

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3575 / 92
p0 4133 ± 3.055
4600
4400
4200
4000
3800
3600

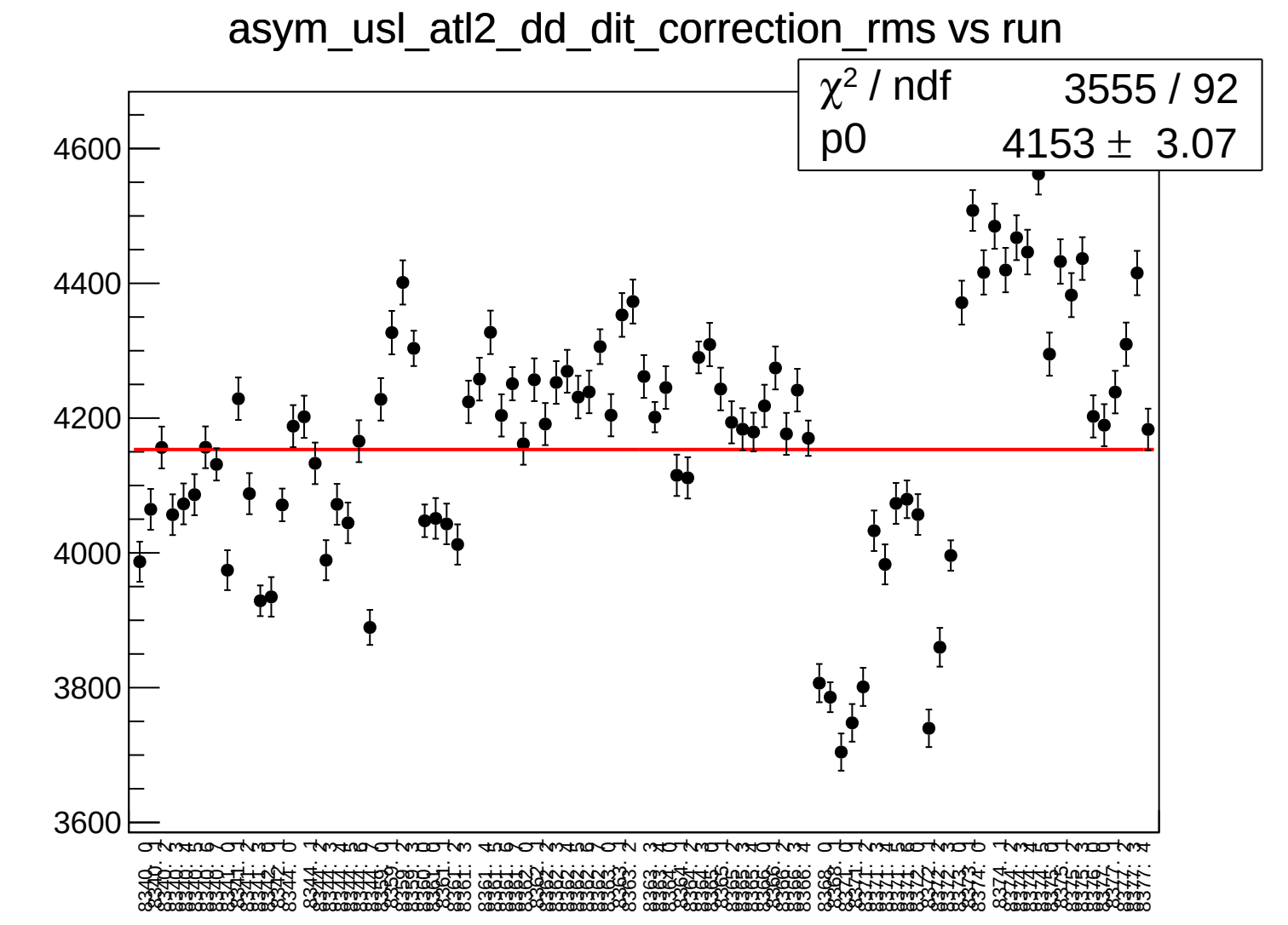

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.9 / 92
p0 −612.6 ± 1093
pull
Entries 93
Mean 143.1
Std Dev 0

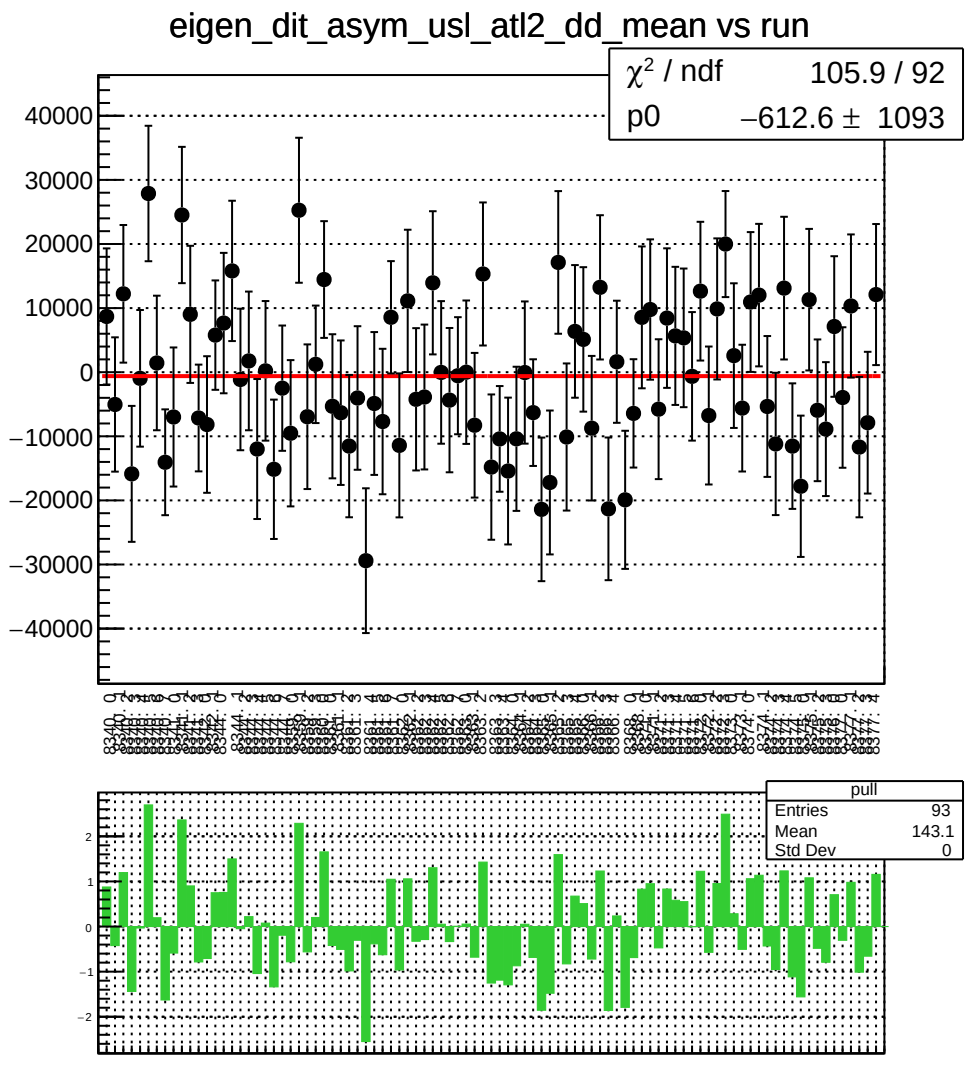

pull1D
Entries 93
Mean −0.003499
Std Dev 1.067

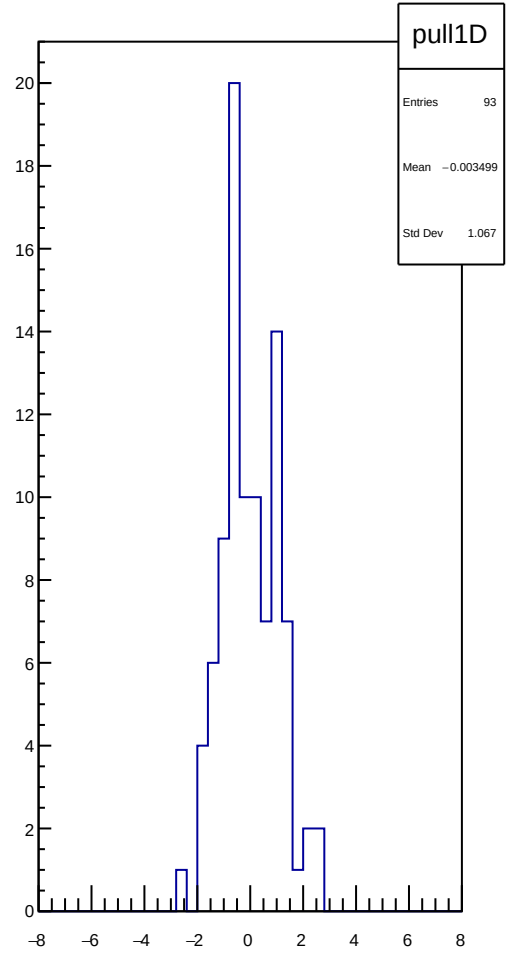

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 903.9 / 92
p0 1046 ± 0.7728
1100
1080
1060
1040
1020
1000
980

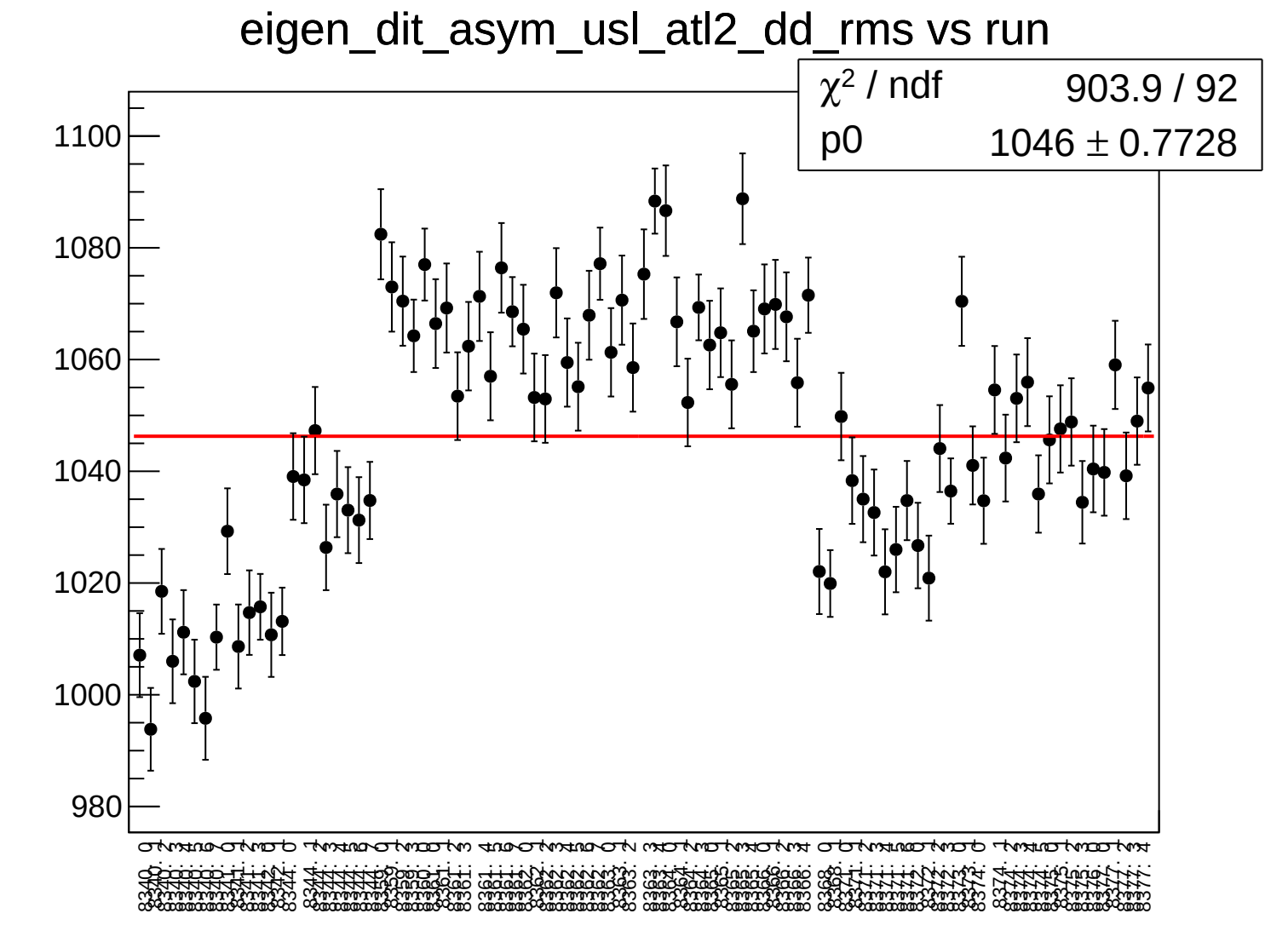

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 92
p0 8258 ± 4342
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −287.8
Std Dev 0
2
1
0
−1
−2
−3

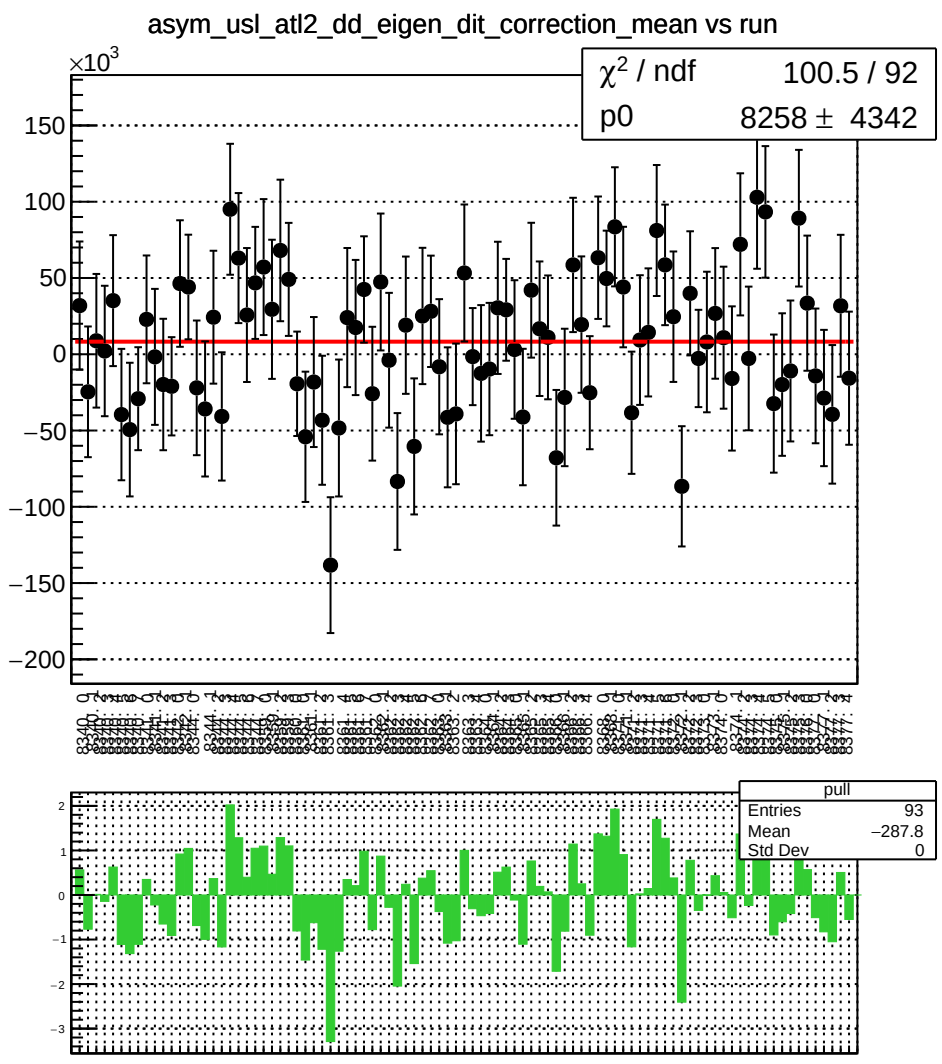

pull1D
Entries 93
Mean −0.009849
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

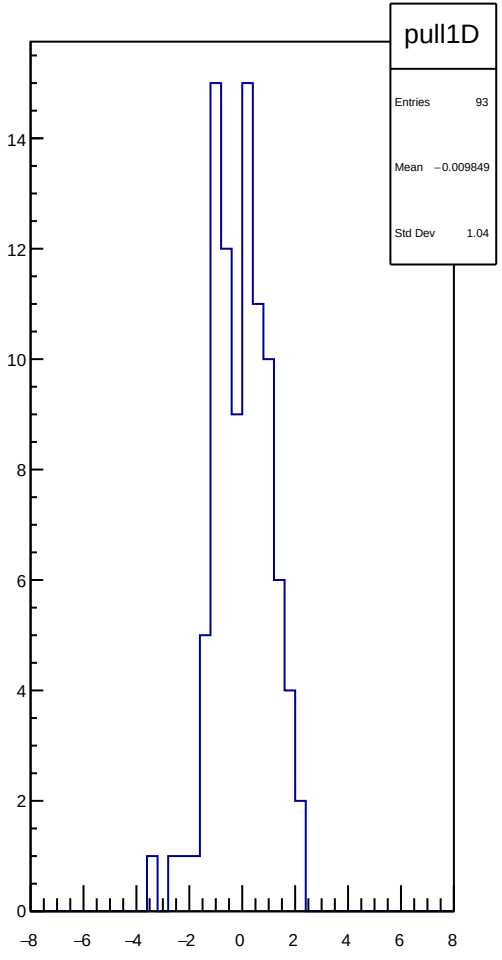

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 3555 / 92
p0 4153 ± 3.07
4600
4400
4200
4000
3800
3600

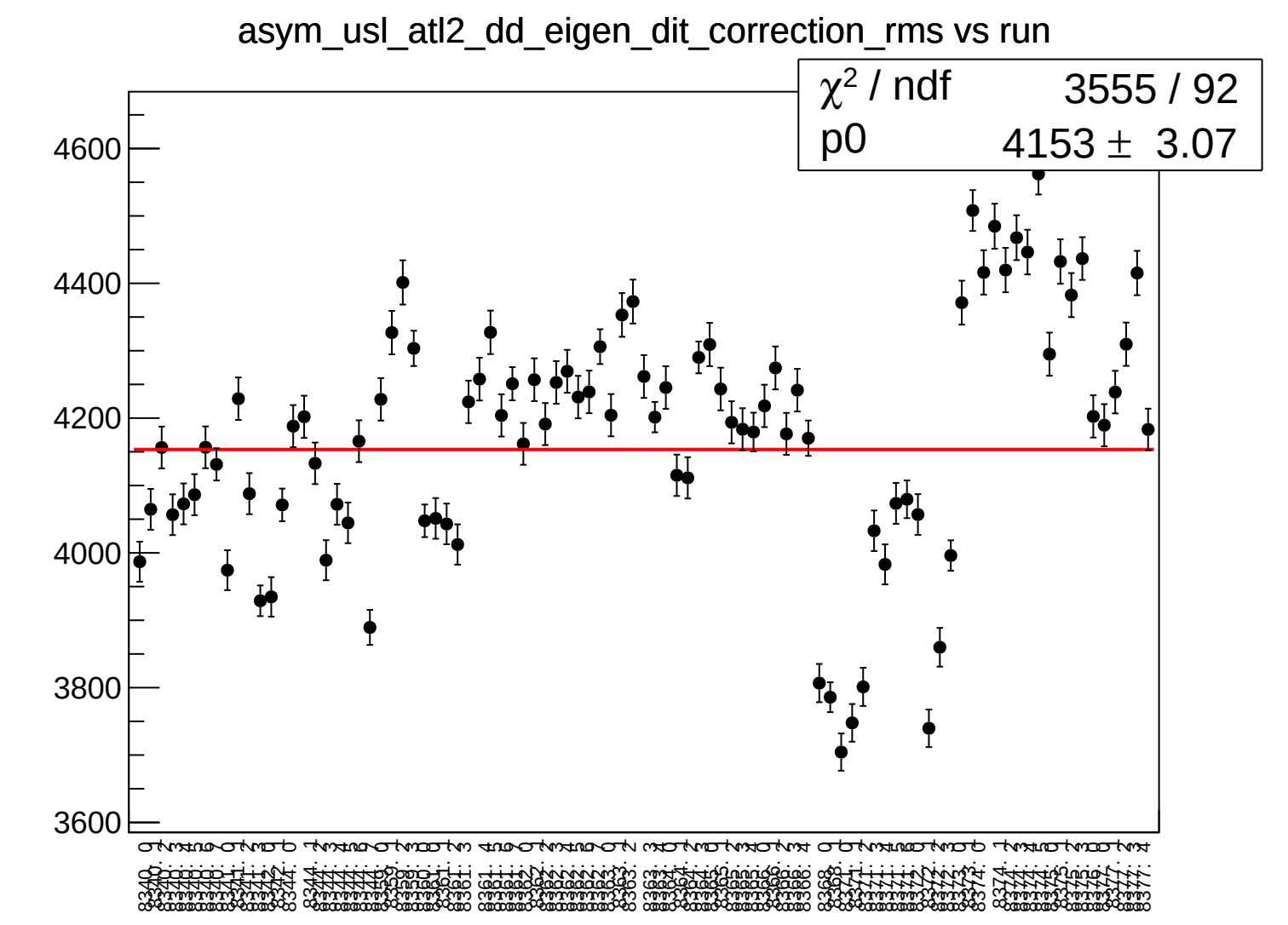

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.9 / 92
p0 −612.6 ± 1093
pull
Entries 93
Mean 143.1
Std Dev 0

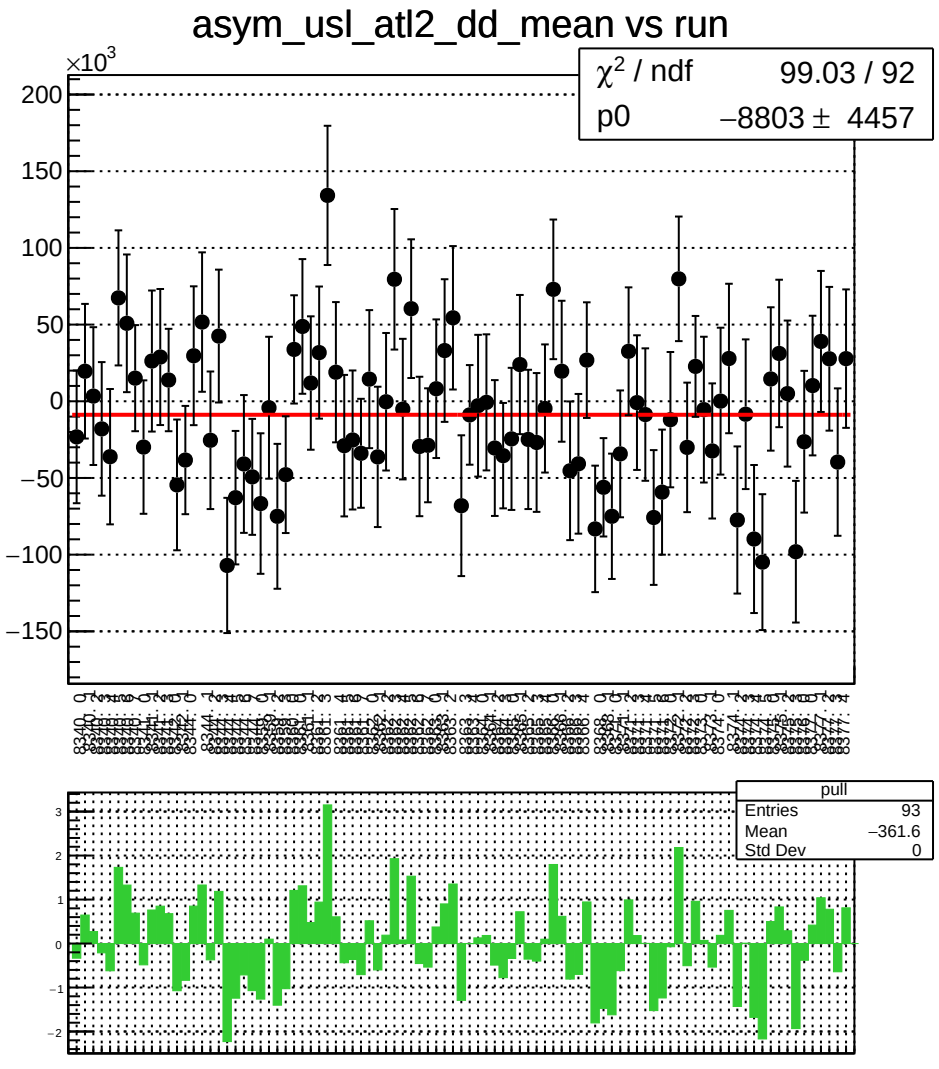

pull1D
Entries 93
Mean −0.003499
Std Dev 1.067

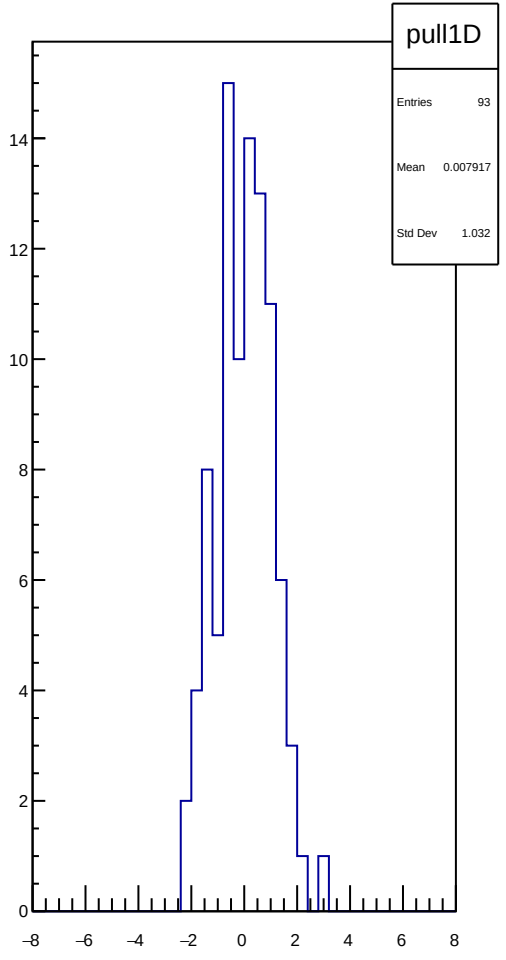

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 903.9 / 92
p0 1046 ± 0.7728
1100
1080
1060
1040
1020
1000
980

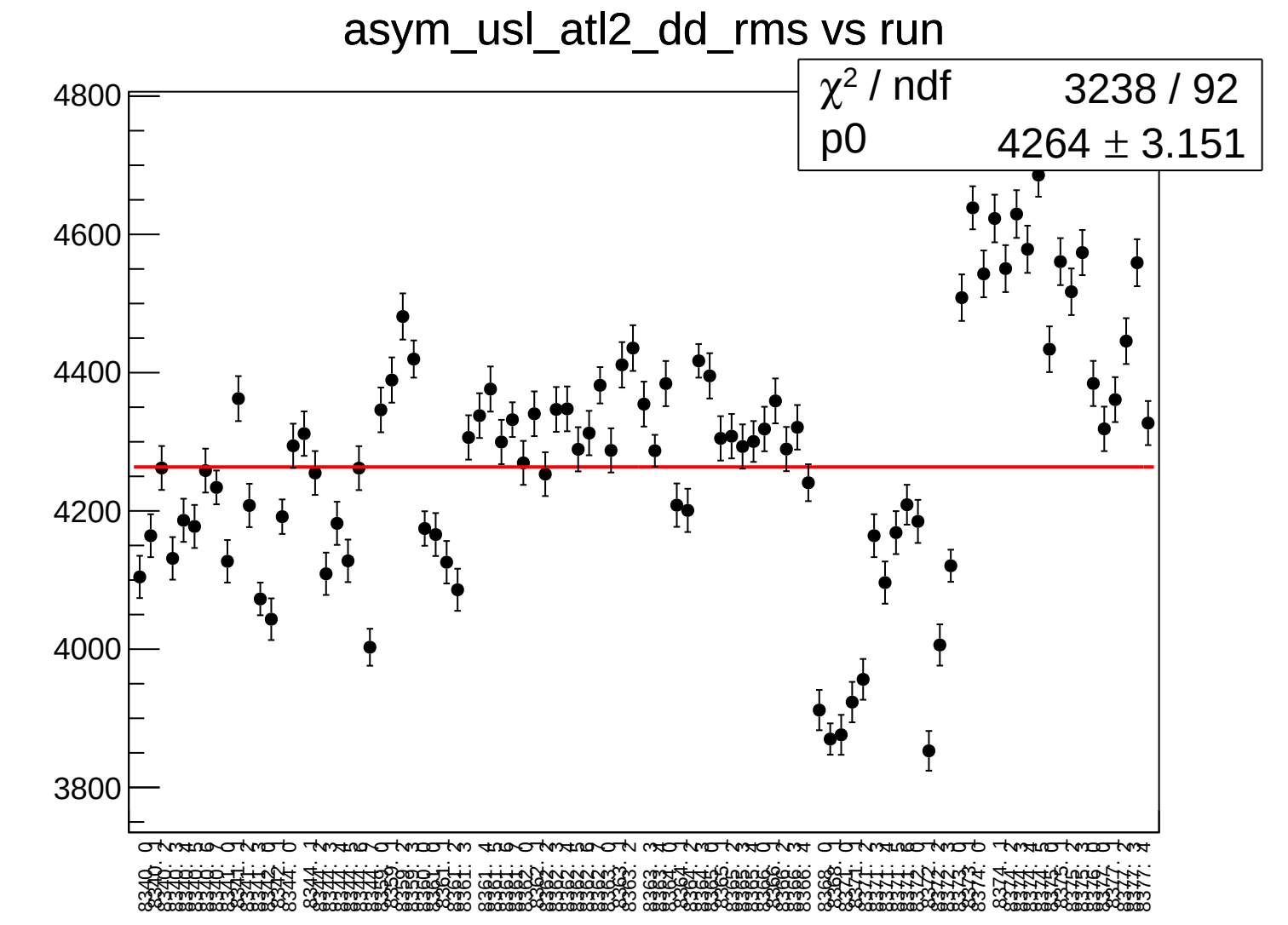

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.5 / 92
p0 8258 ± 4342
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −287.8
Std Dev 0
2
1
0
−1
−2
−3

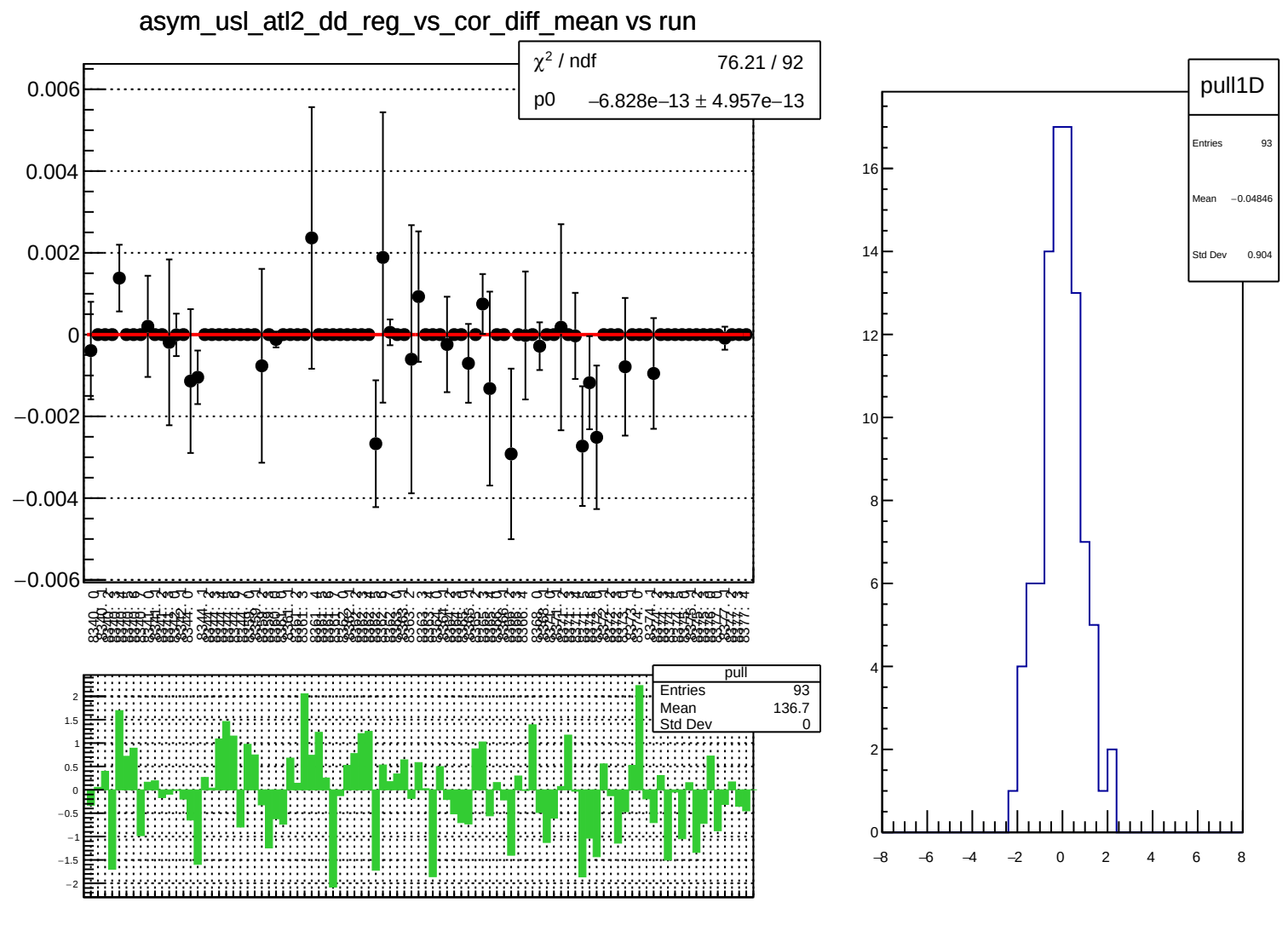

pull1D
Entries 93
Mean −0.009849
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

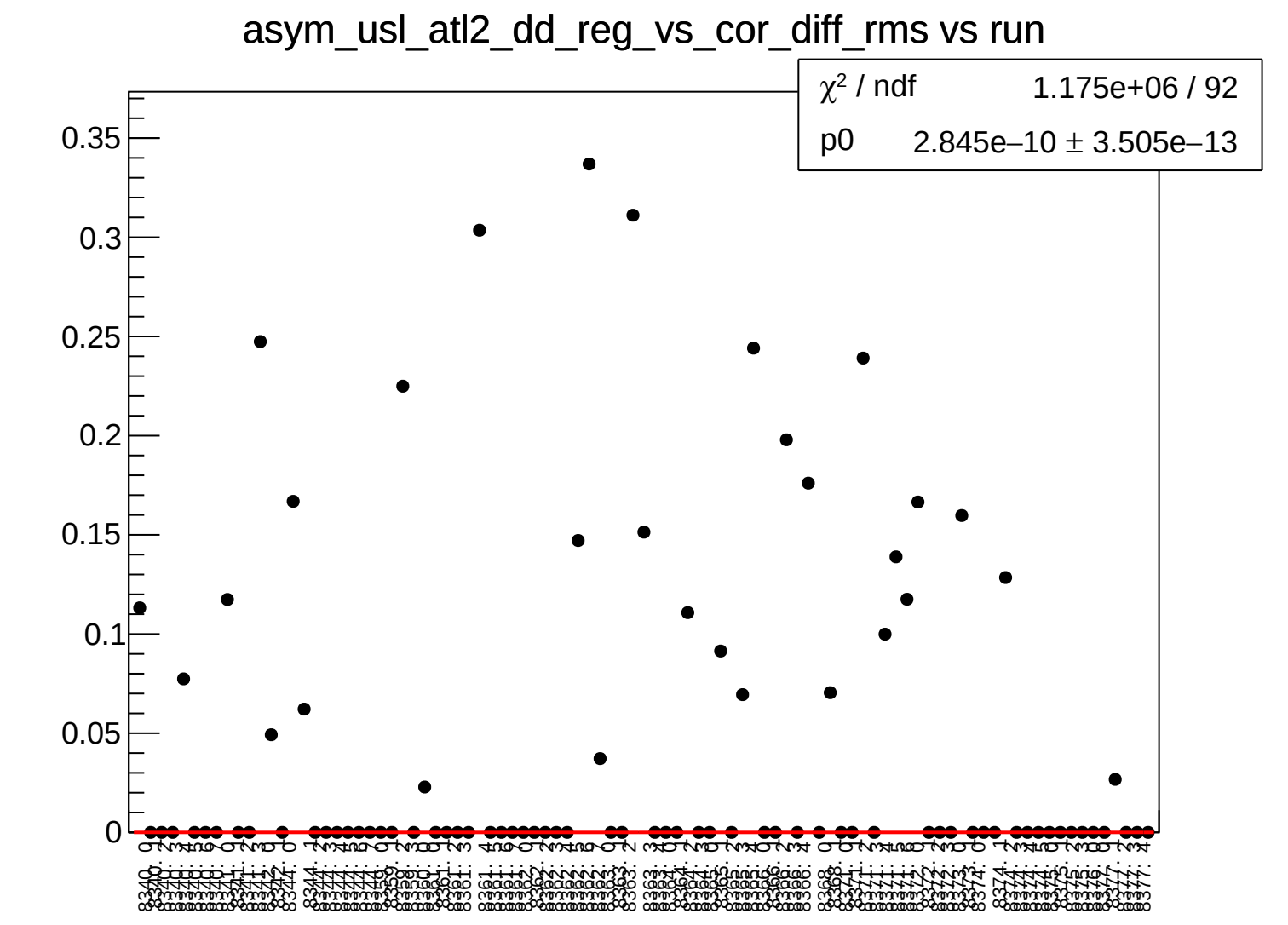

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3555 / 92
p0 4153 ± 3.07
4600
4400
4200
4000
3800
3600

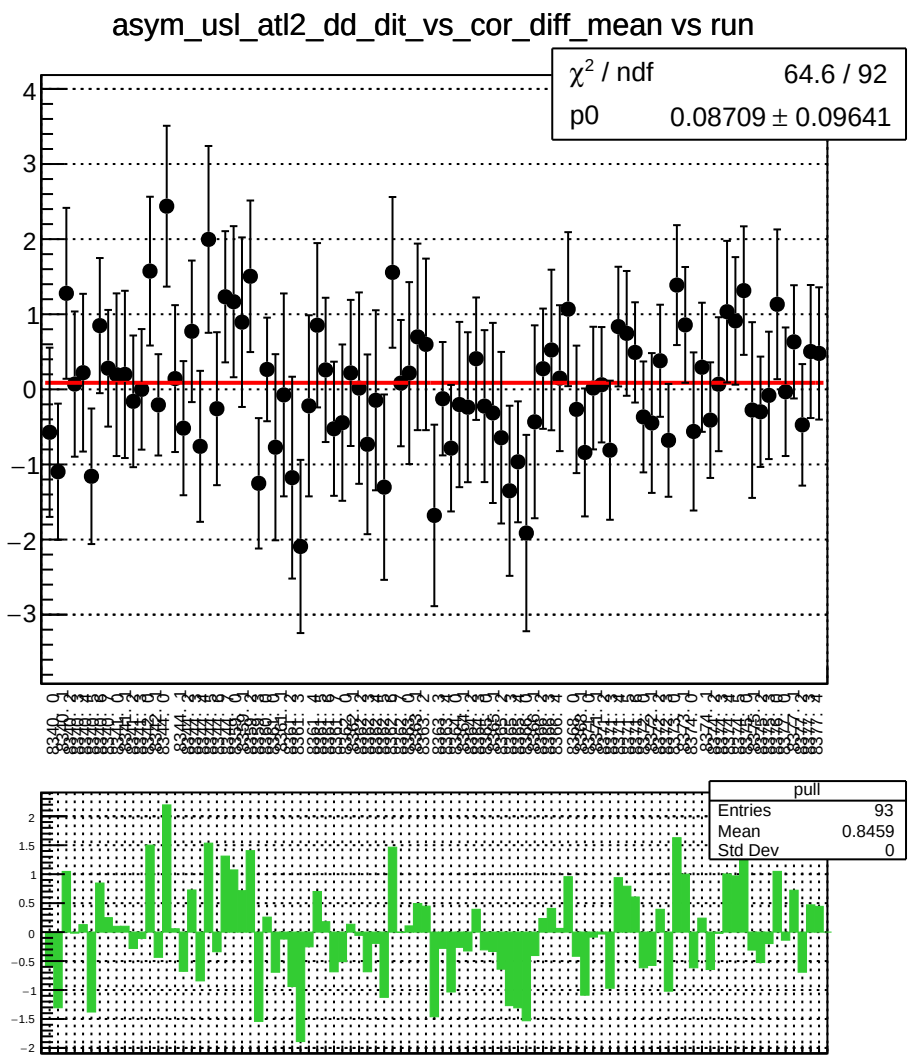

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 99.03 / 92
p0 −8803 ± 4457
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −361.6
Std Dev 0
3
2
1
0
−1
−2

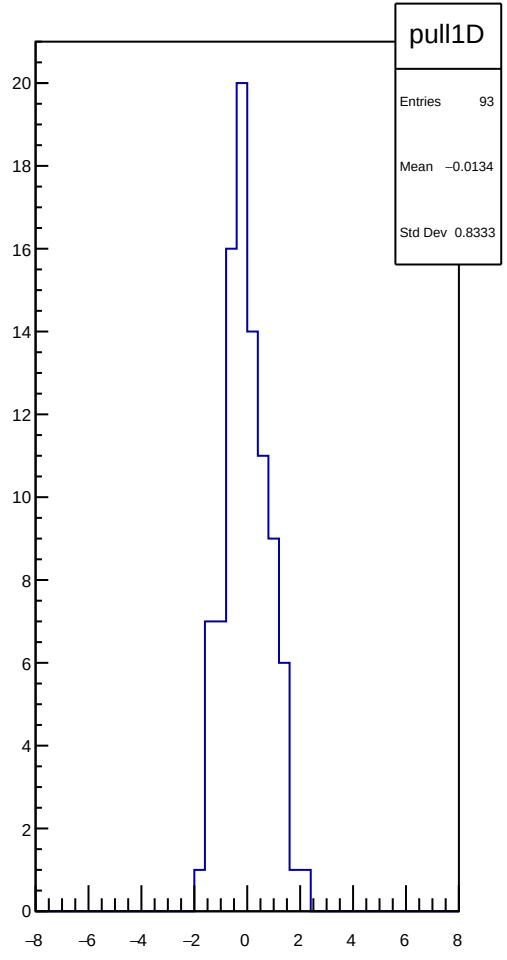

pull1D
Entries 93
Mean 0.007917
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

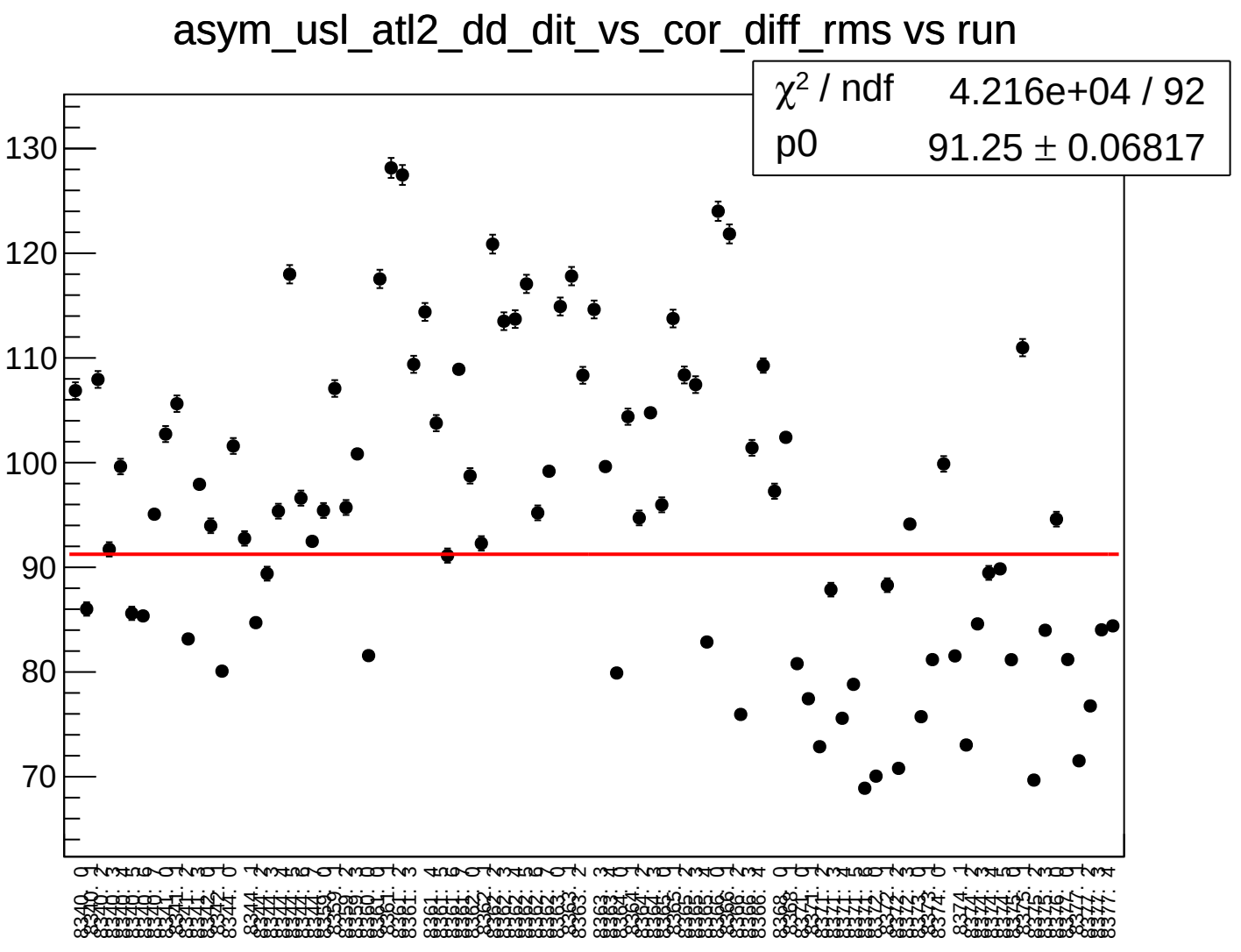

asym_usl_atl2_dd_rms vs run
χ² / ndf 3238 / 92
p0 4264 ± 3.151
4800
4600
4400
4200
4000
3800

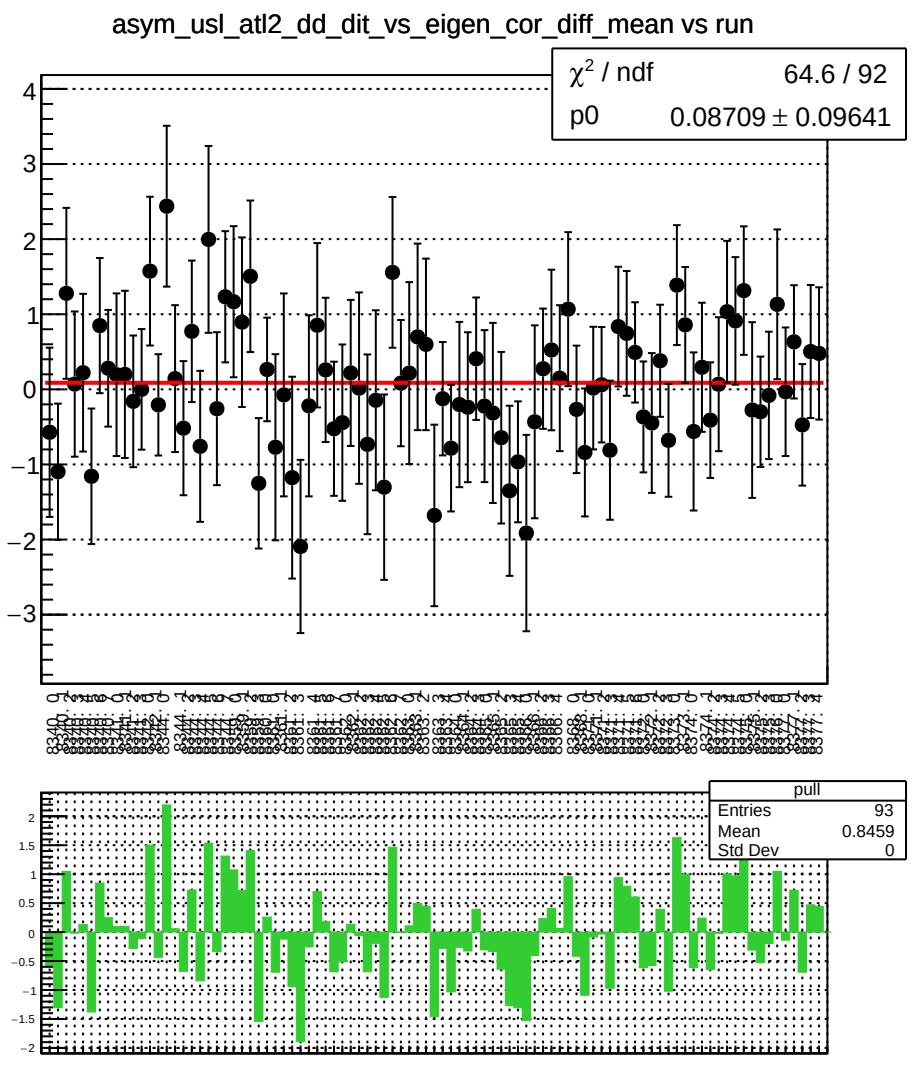

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.21 / 92
p0 −6.828e−13 ± 4.957e−13
pull
Entries 93
Mean 136.7
Std Dev 0
pull1D
Entries 93
Mean −0.04846
Std Dev 0.904

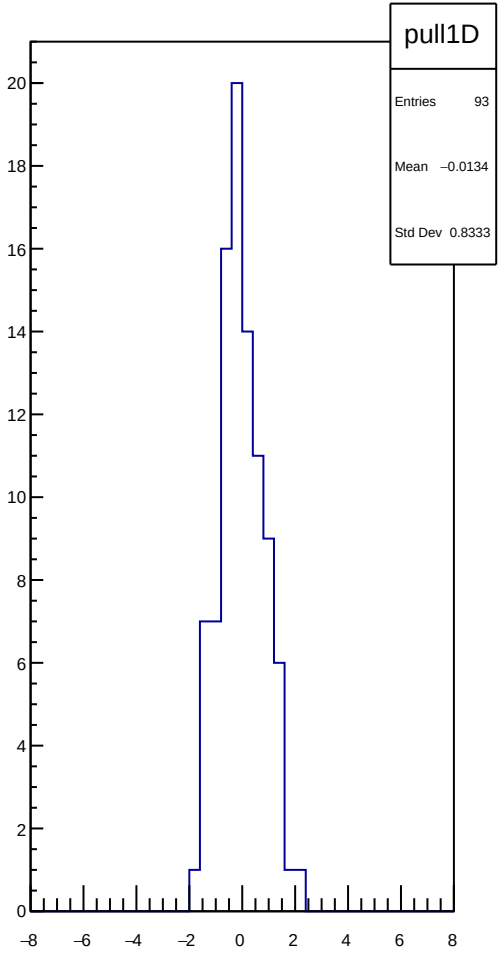

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 92
p0 2.845e−10 ± 3.505e−13
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0

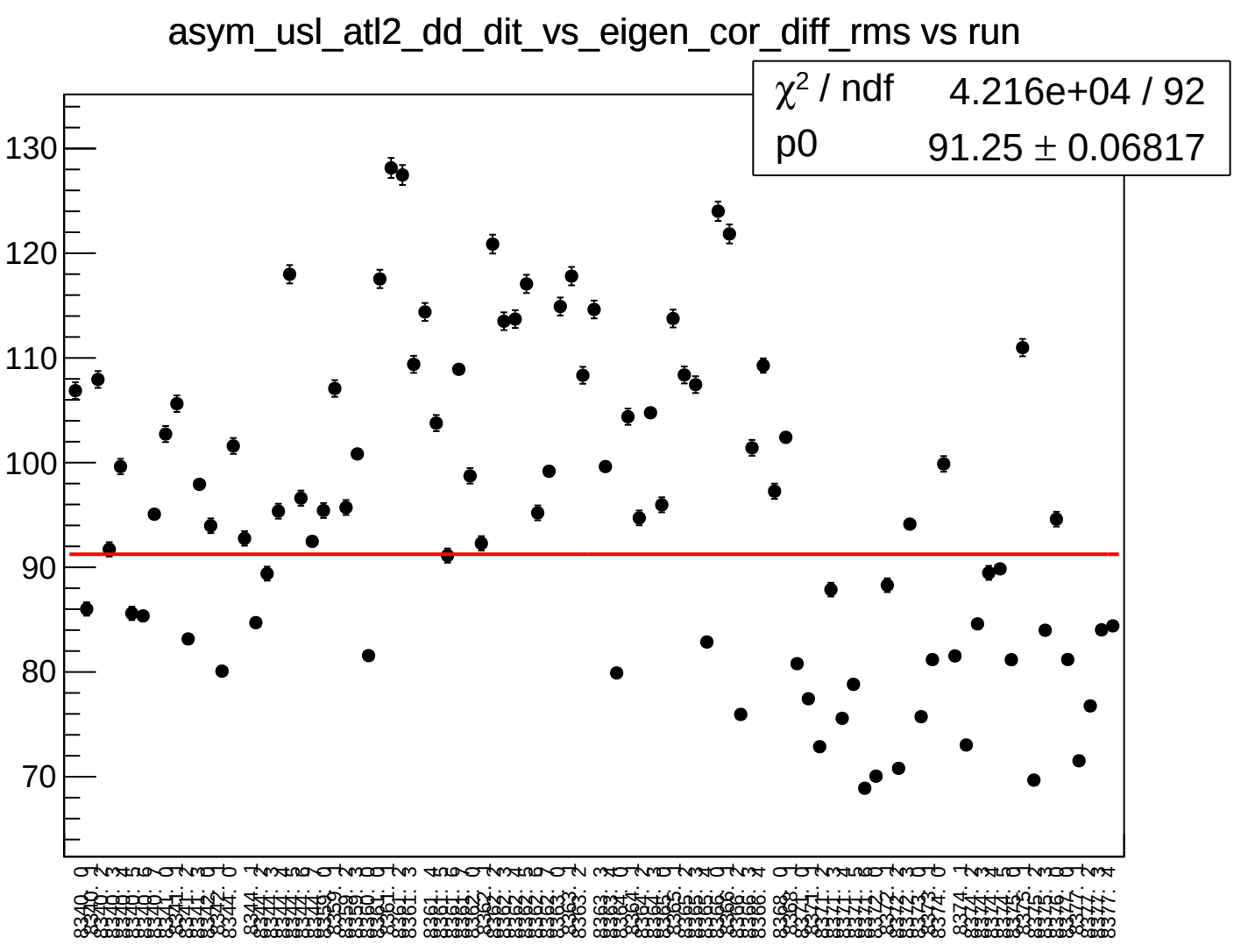

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.6 / 92
p0 0.08709 ± 0.09641
pull
Entries 93
Mean 0.8459
Std Dev 0

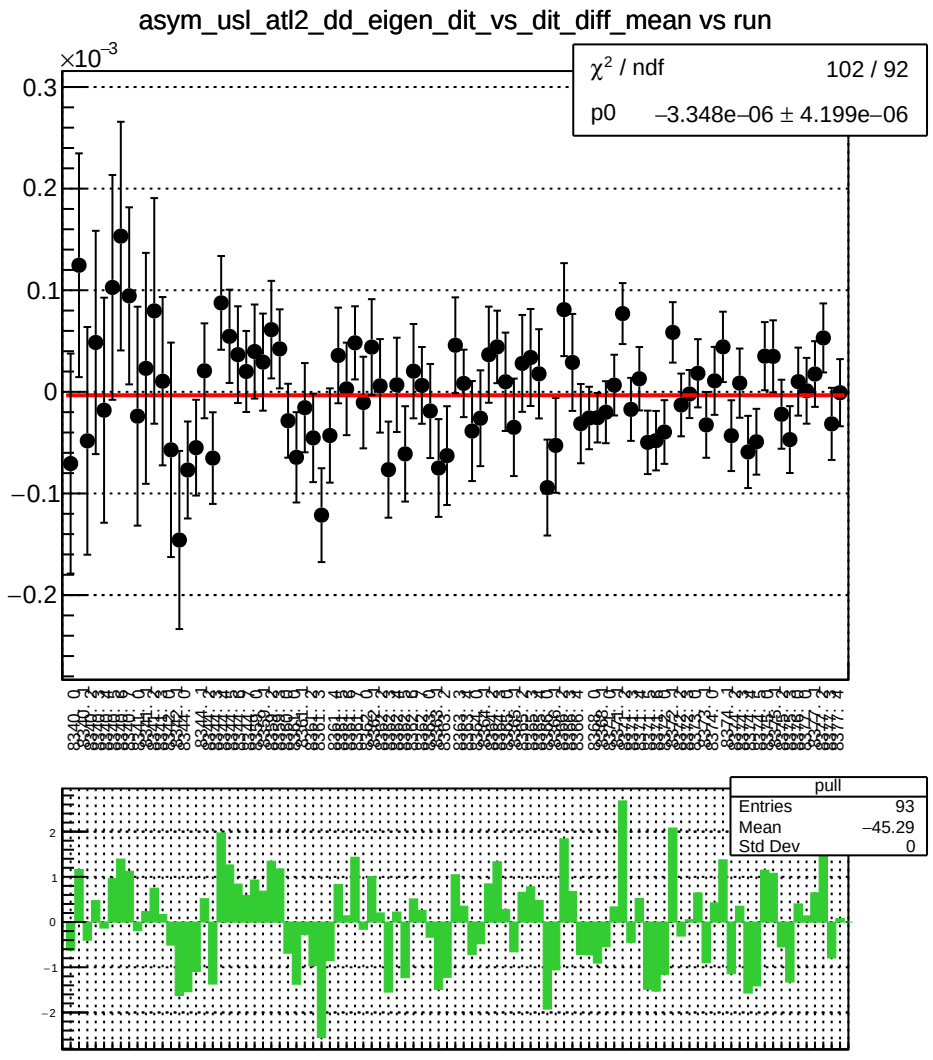

pull1D
Entries 93
Mean −0.0134
Std Dev 0.8333

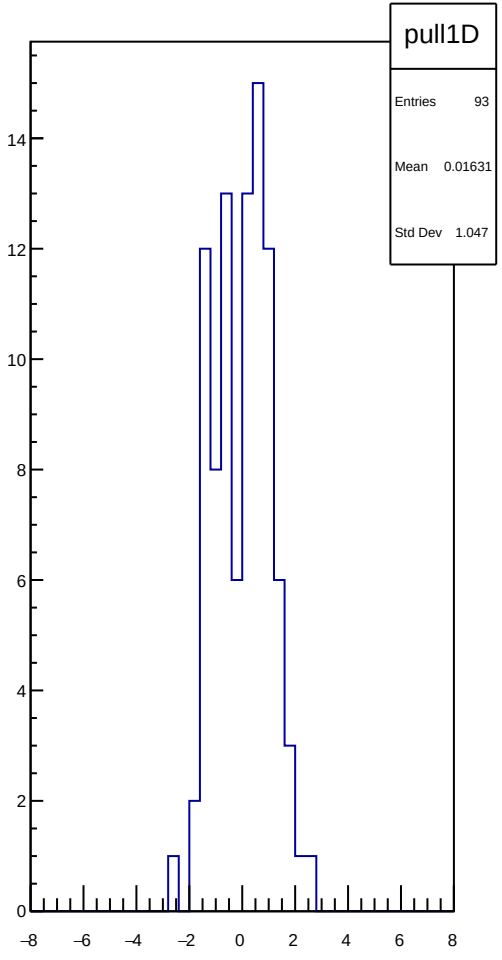

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 92
p0 91.25 ± 0.06817
130
120
110
100
90
80
70

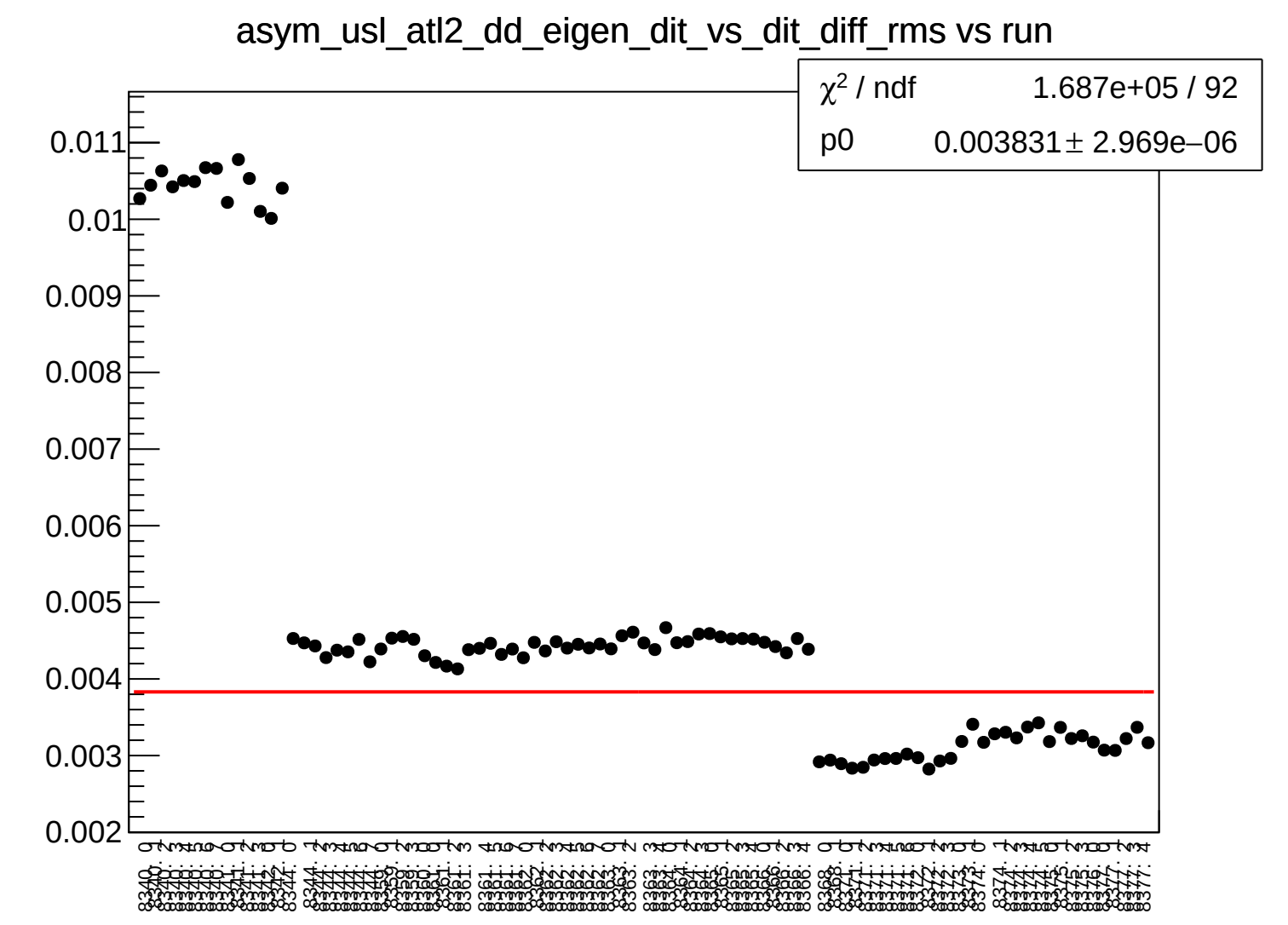

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.6 / 92
p0 0.08709 ± 0.09641
pull
Entries 93
Mean 0.8459
Std Dev 0

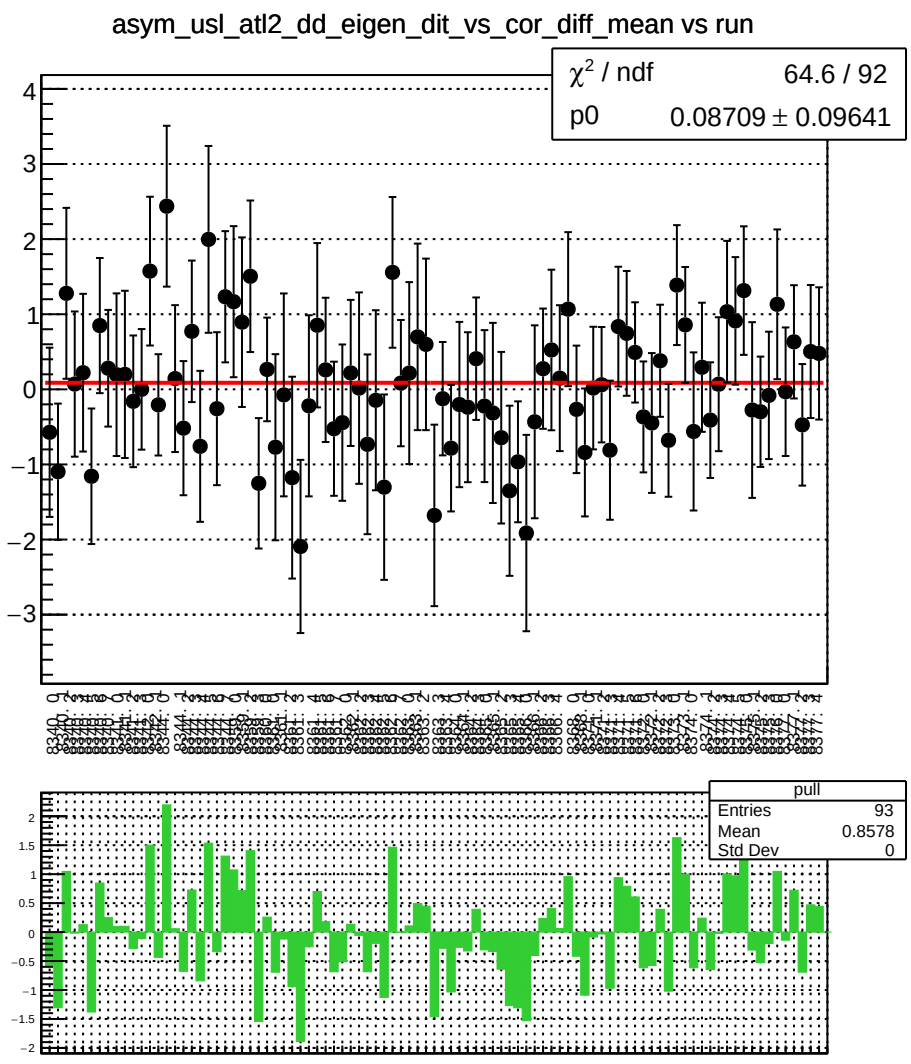

pull1D
Entries 93
Mean −0.0134
Std Dev 0.8333

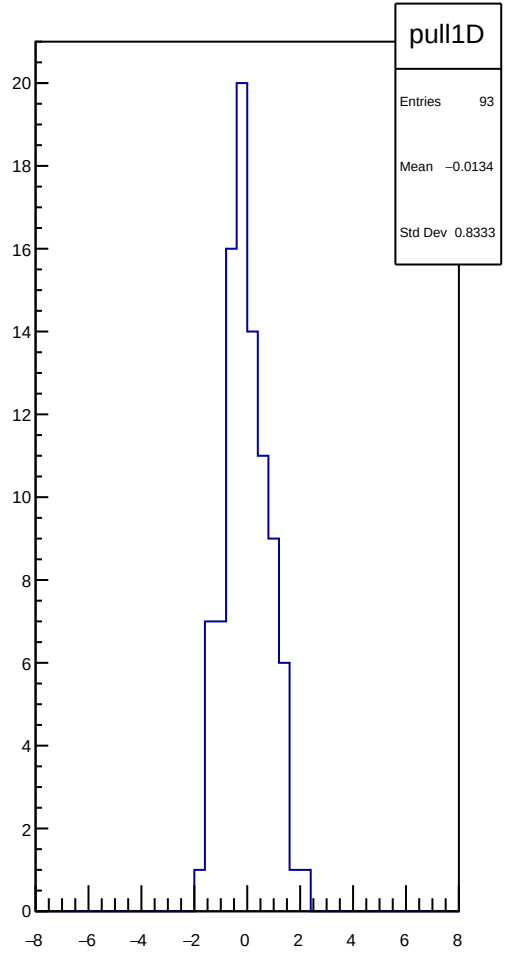

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.216e+04 / 92
p0 91.25 ± 0.06817
130
120
110
100
90
80
70

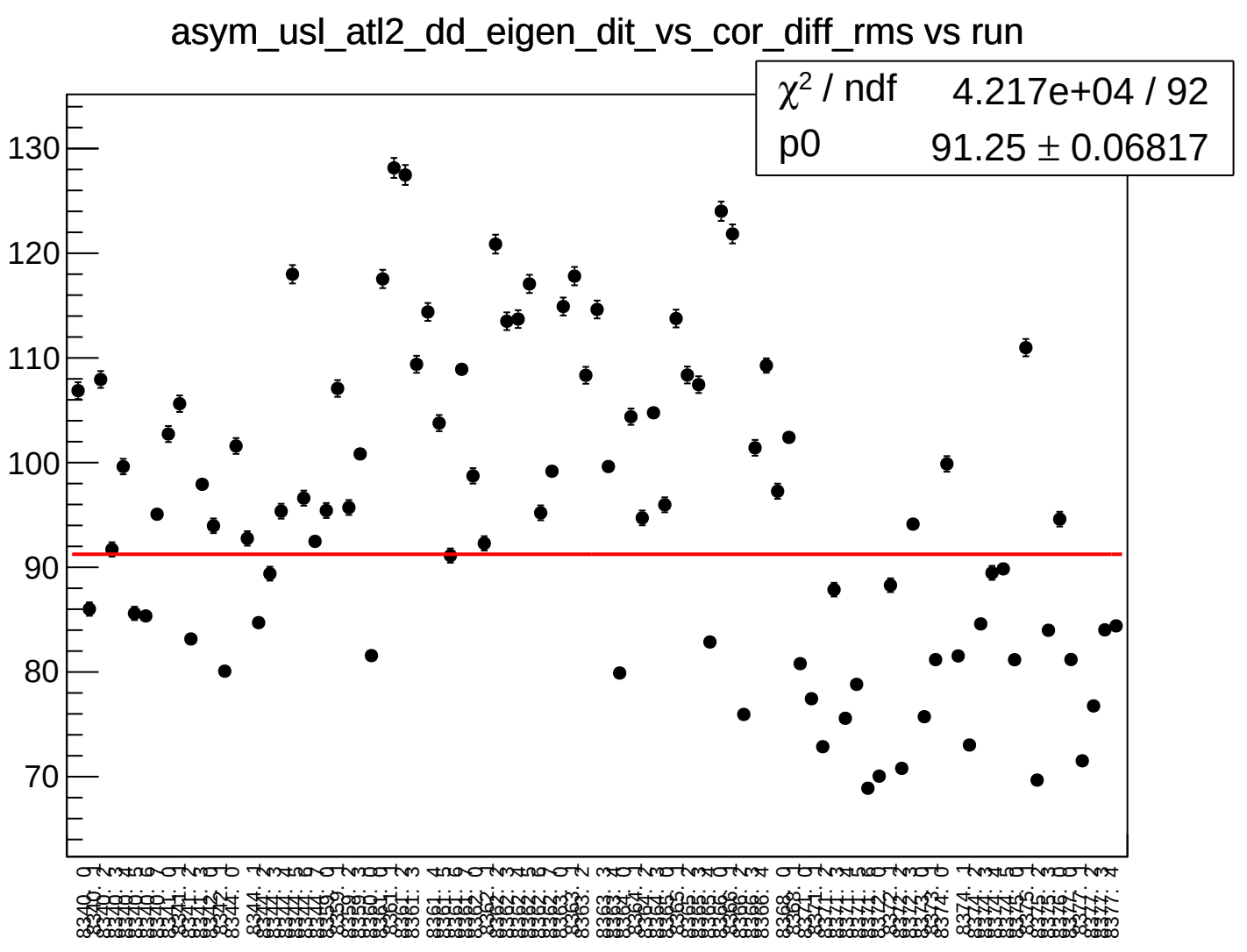

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 92
p0 −3.348e−06 ± 4.199e−06
pull
Entries 93
Mean −45.29
Std Dev 0

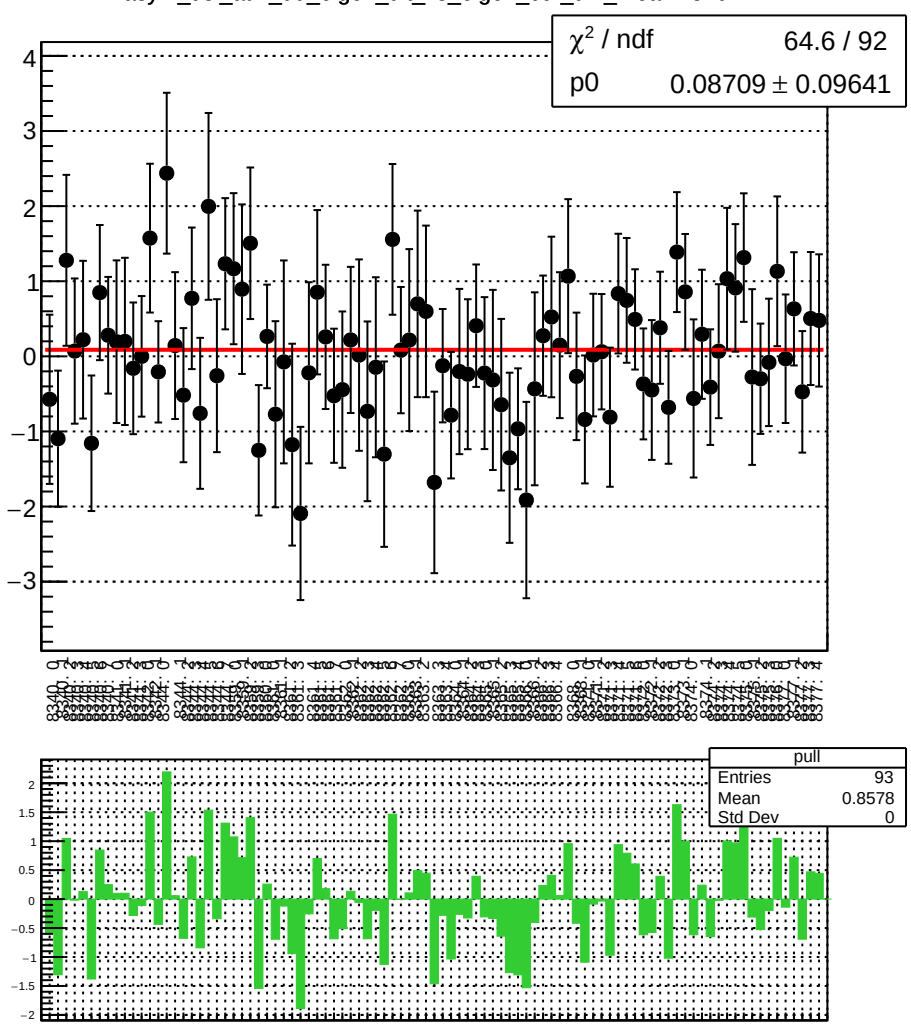

pull1D
Entries 93
Mean 0.01631
Std Dev 1.047

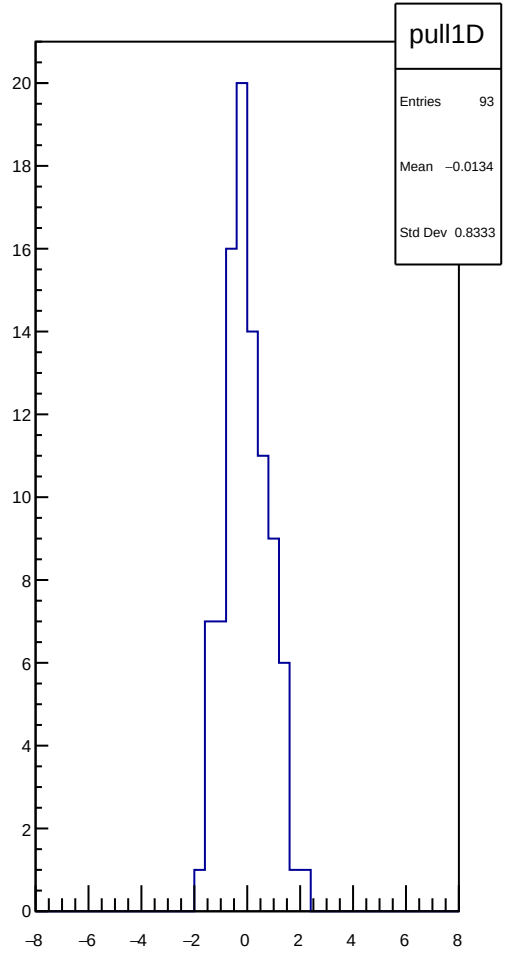

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.687e+05 / 92
p0 0.003831 ± 2.969e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

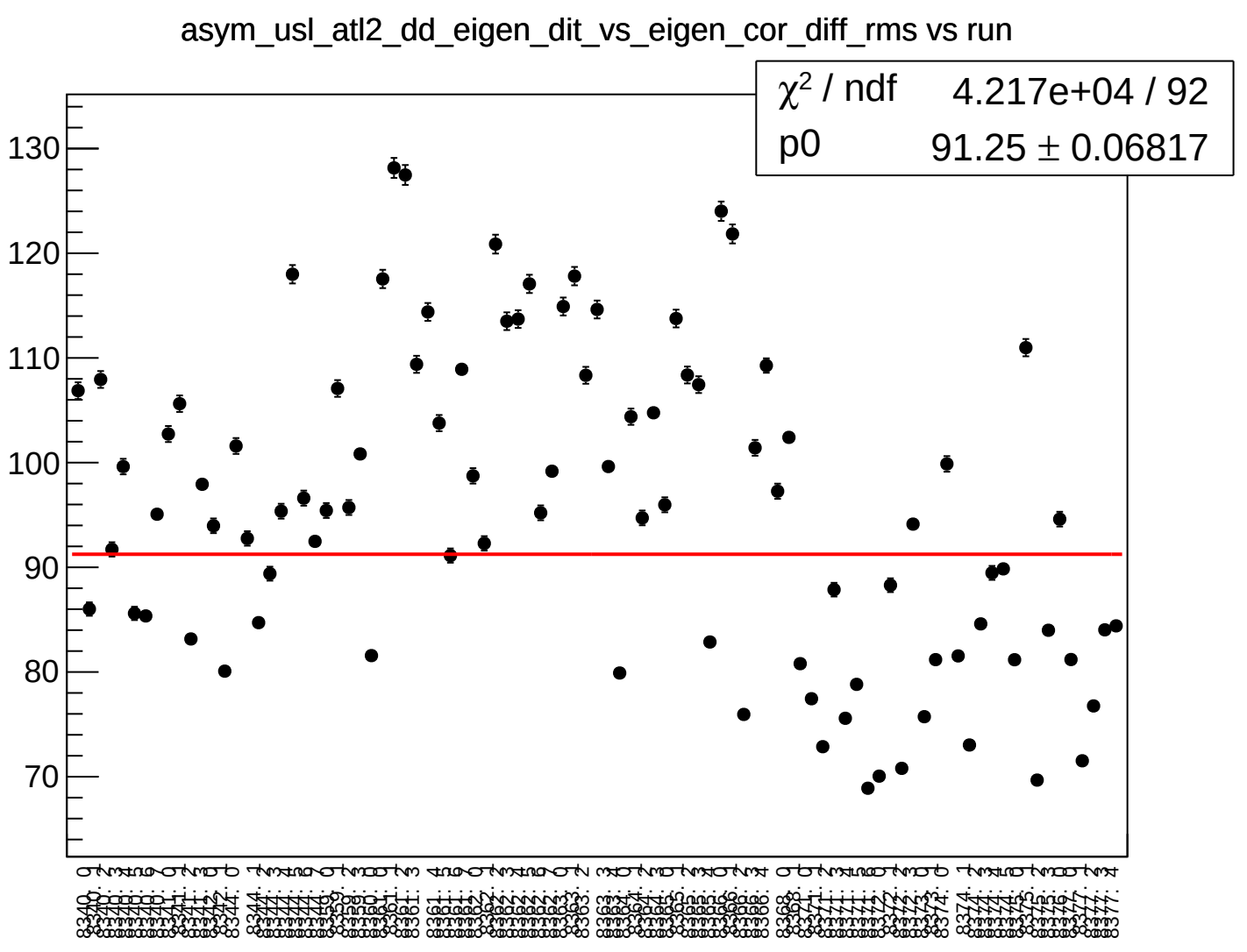

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.6 / 92
p0 0.08709 ± 0.09641
pull
Entries 93
Mean 0.8578
Std Dev 0

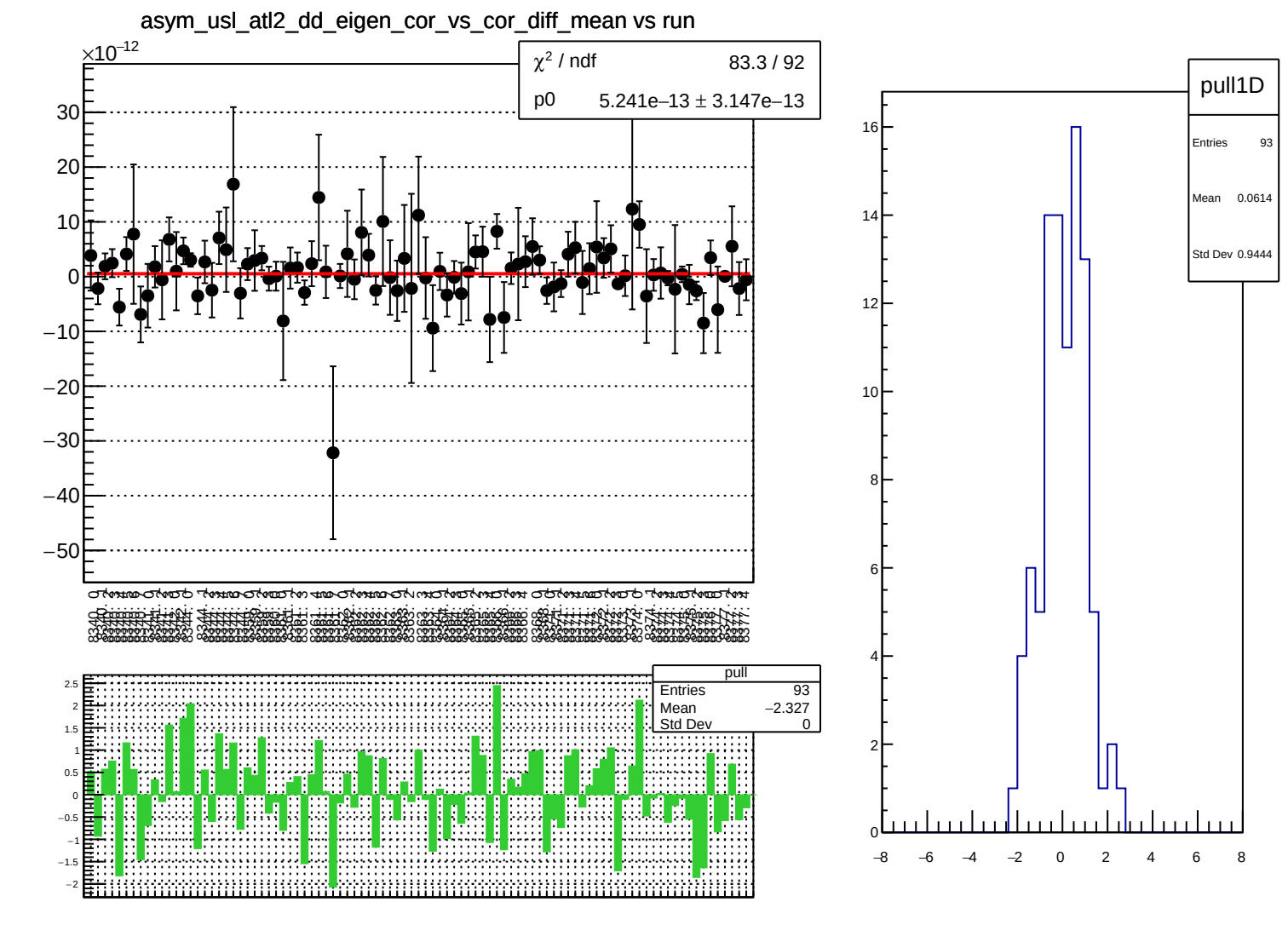

pull1D
Entries 93
Mean −0.0134
Std Dev 0.8333

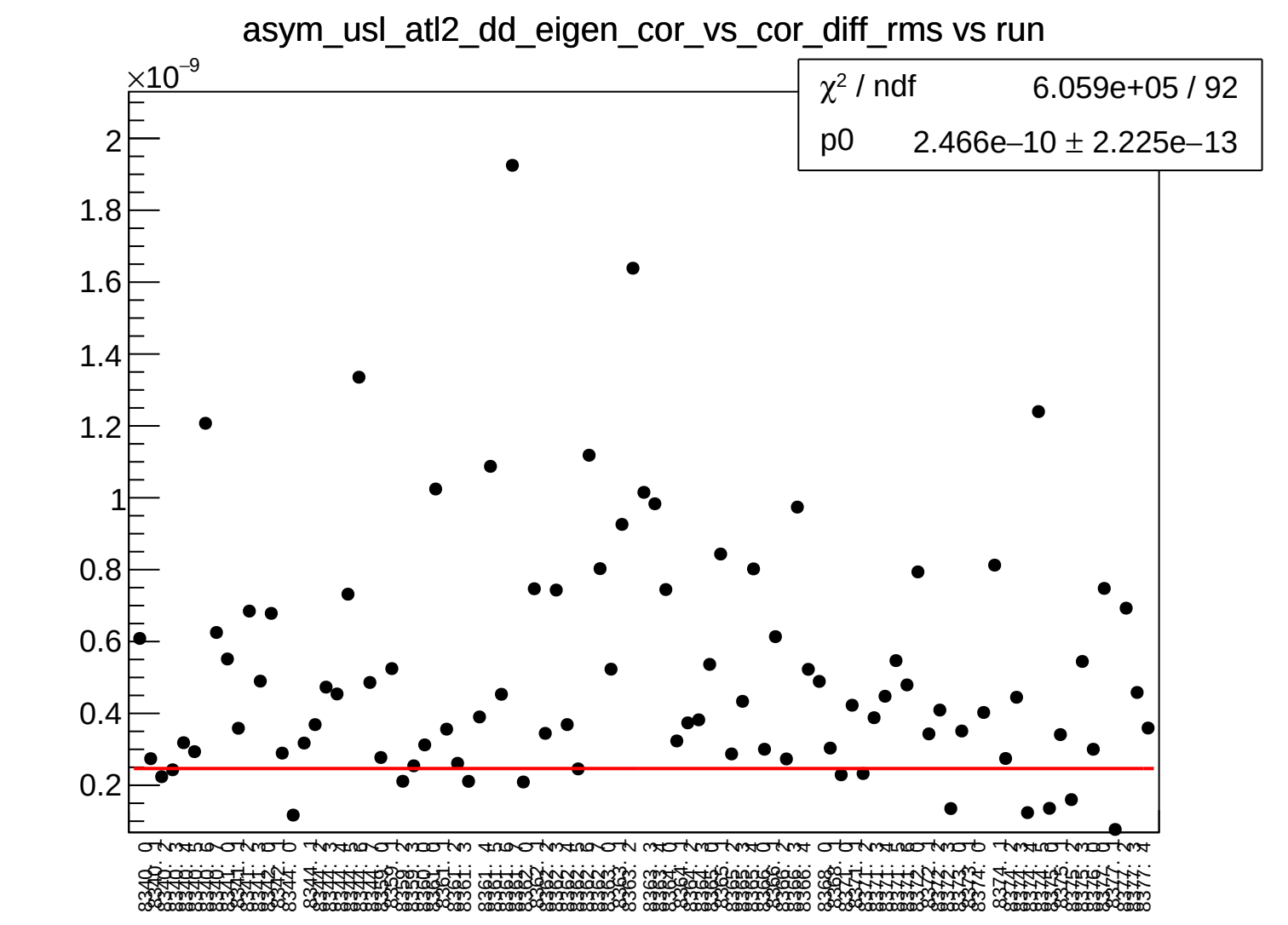

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.217e+04 / 92
p0 91.25 ± 0.06817
130
120
110
100
90
80
70

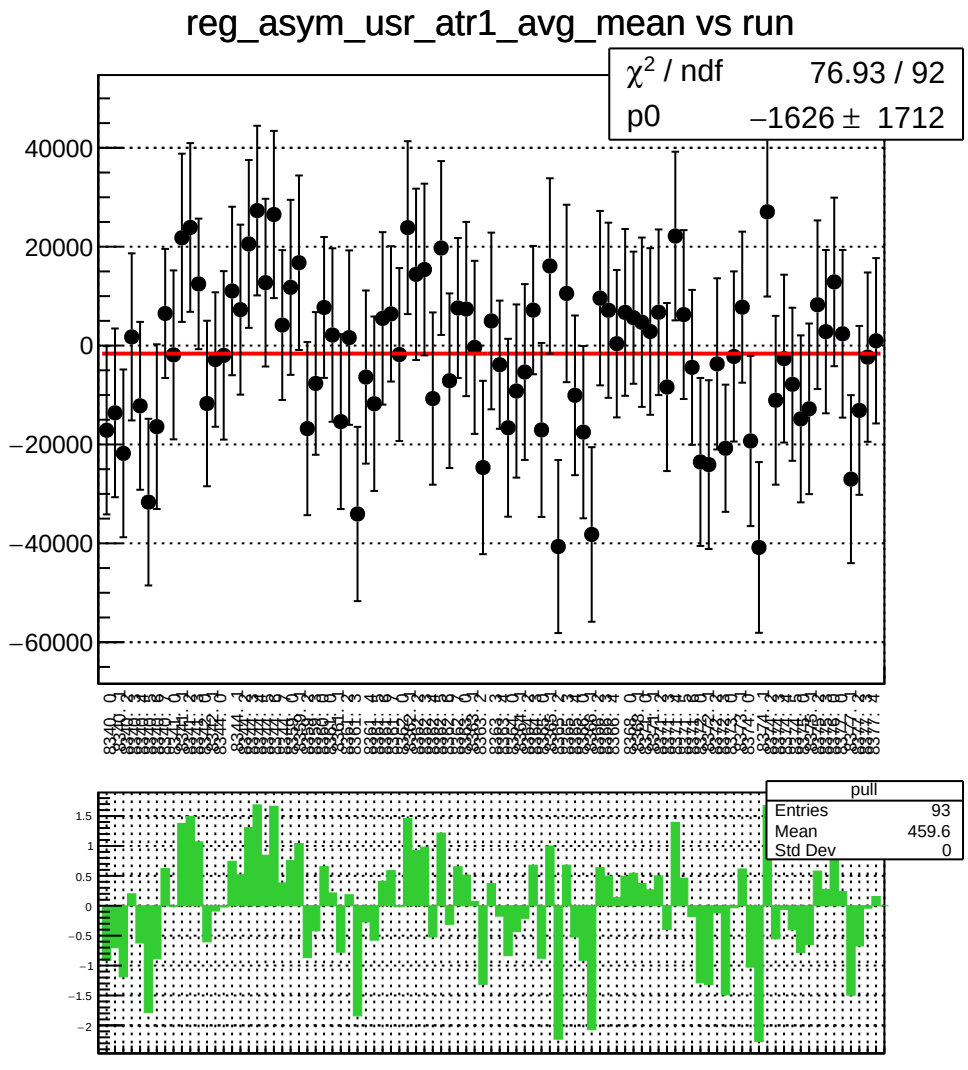

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.6 / 92
p0 0.08709 ± 0.09641
pull
Entries 93
Mean 0.8578
Std Dev 0

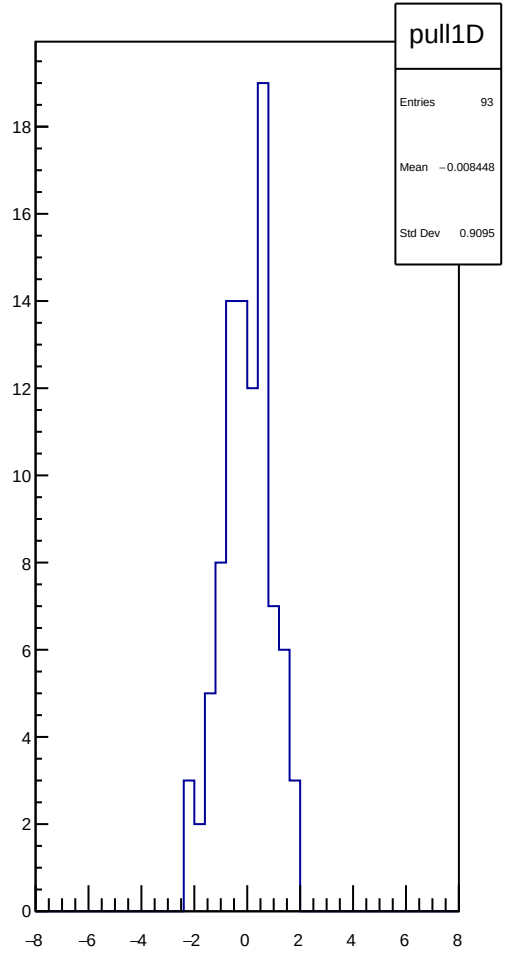

pull1D
Entries 93
Mean −0.0134
Std Dev 0.8333

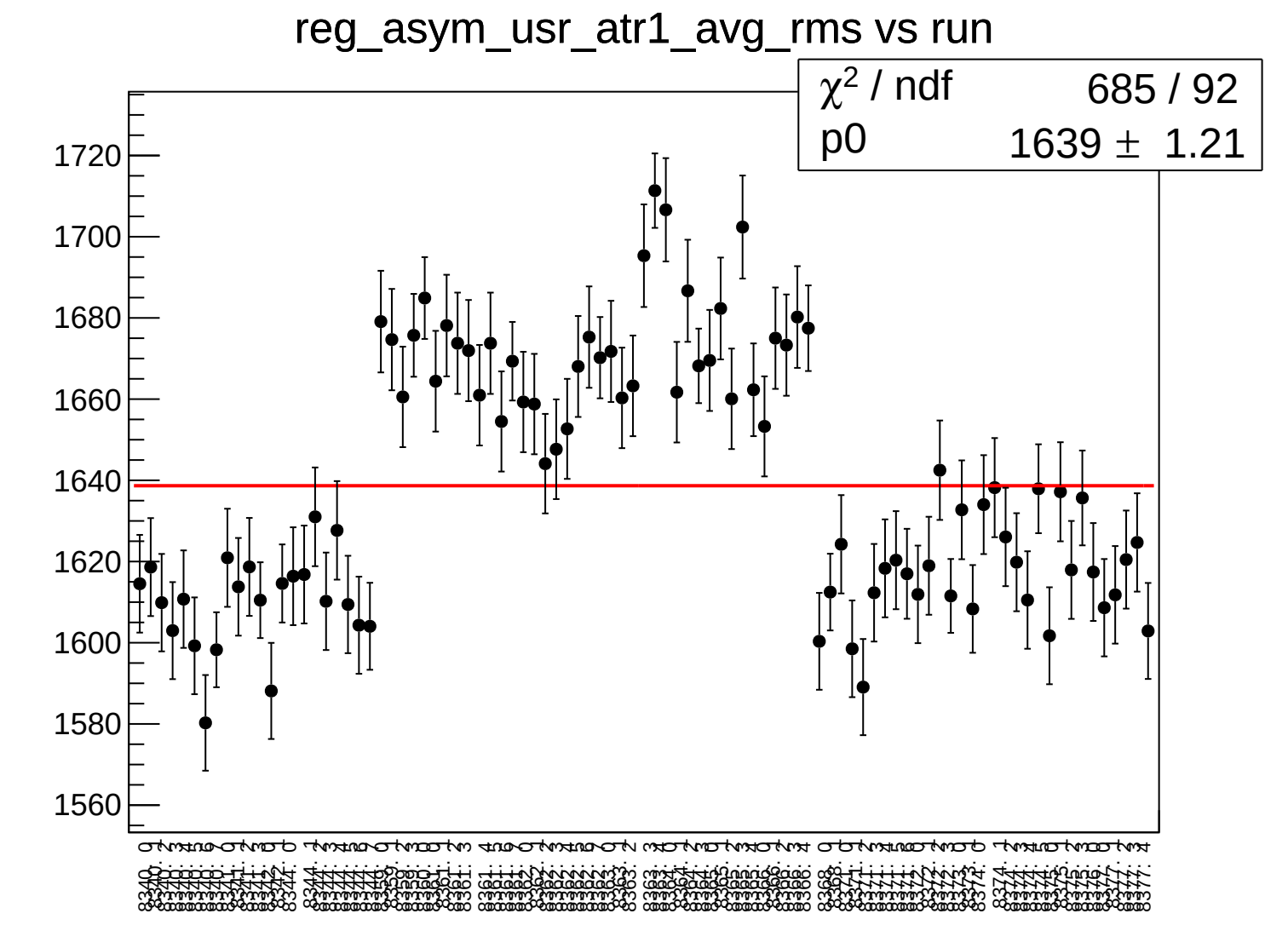

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.217e+04 / 92
p0 91.25 ± 0.06817
130
120
110
100
90
80
70

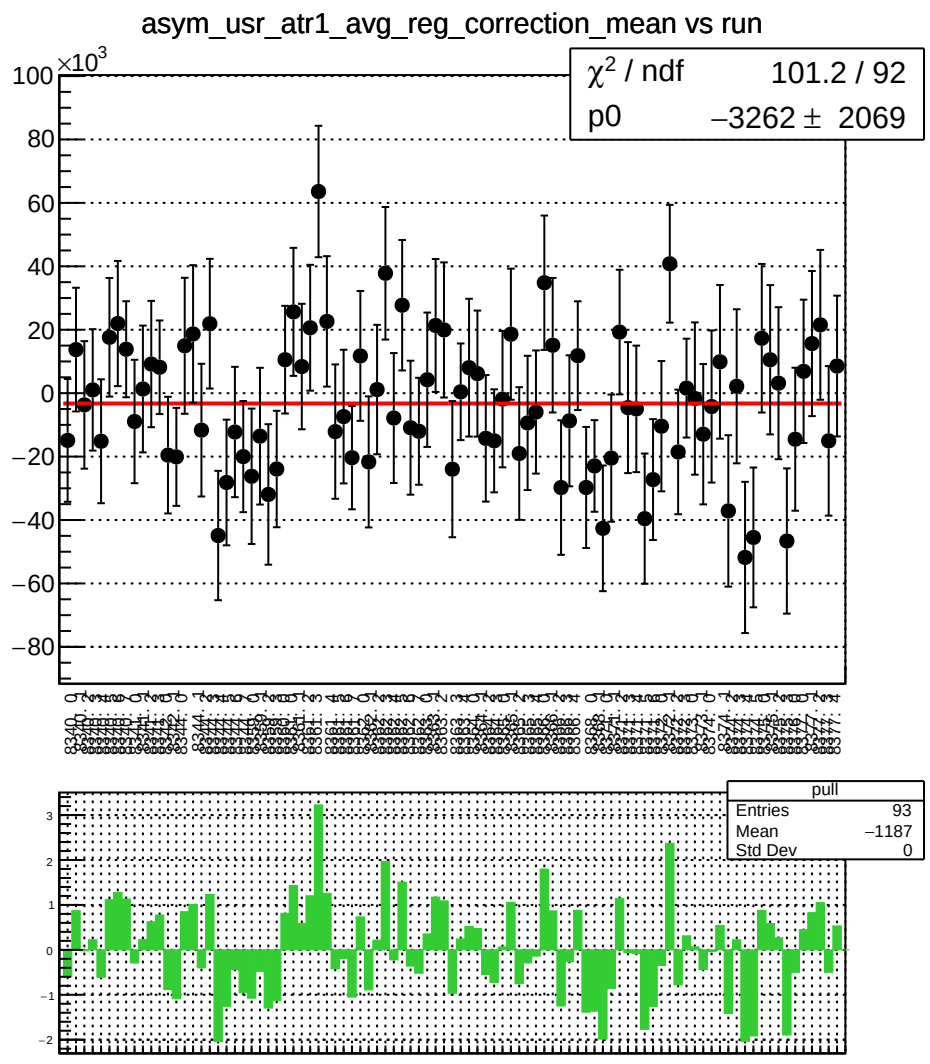

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.3 / 92
p0 5.241e−13 ± 3.147e−13
pull
Entries 93
Mean −2.327
Std Dev 0
pull1D
Entries 93
Mean 0.0614
Std Dev 0.9444

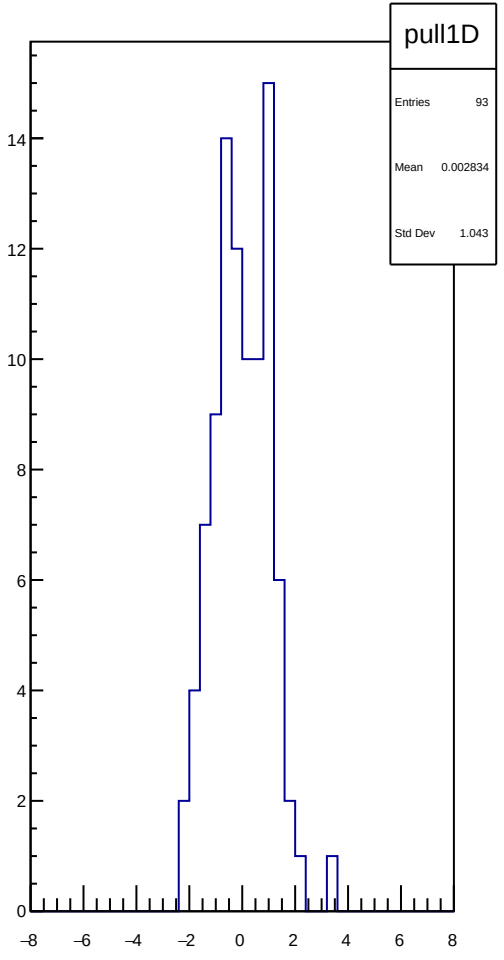

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.059e+05 / 92
p0 2.466e−10 ± 2.225e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

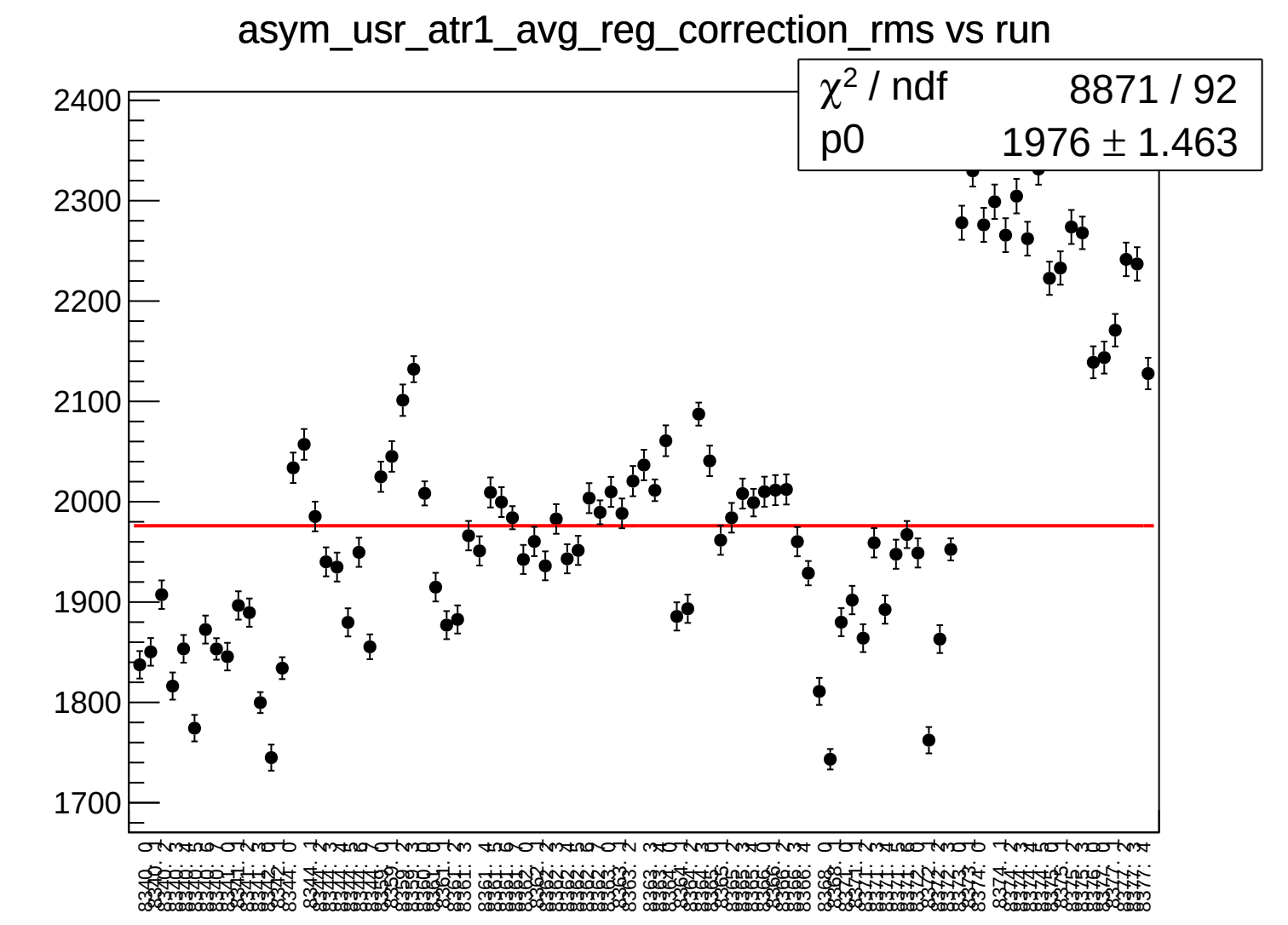

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.93 / 92
p0 −1626 ± 1712
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 459.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

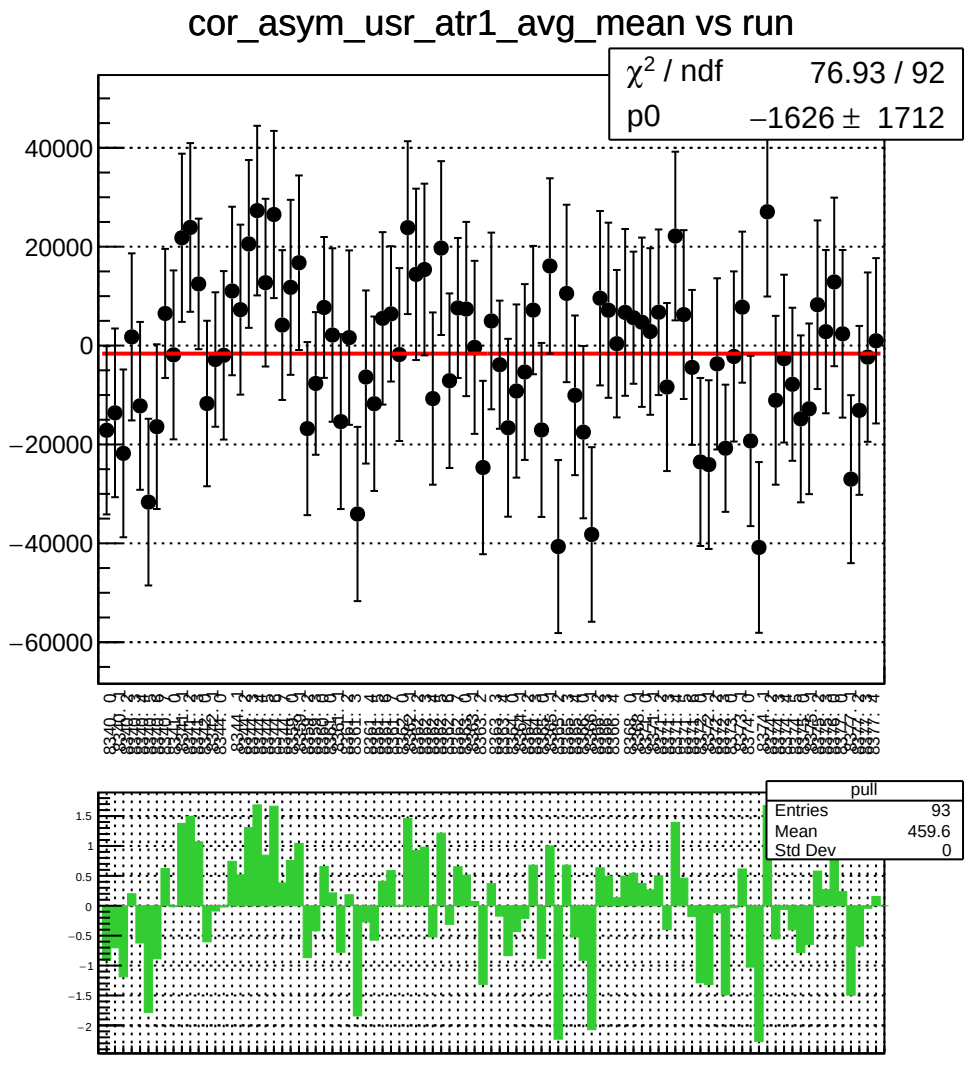

pull1D
Entries 93
Mean −0.008448
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

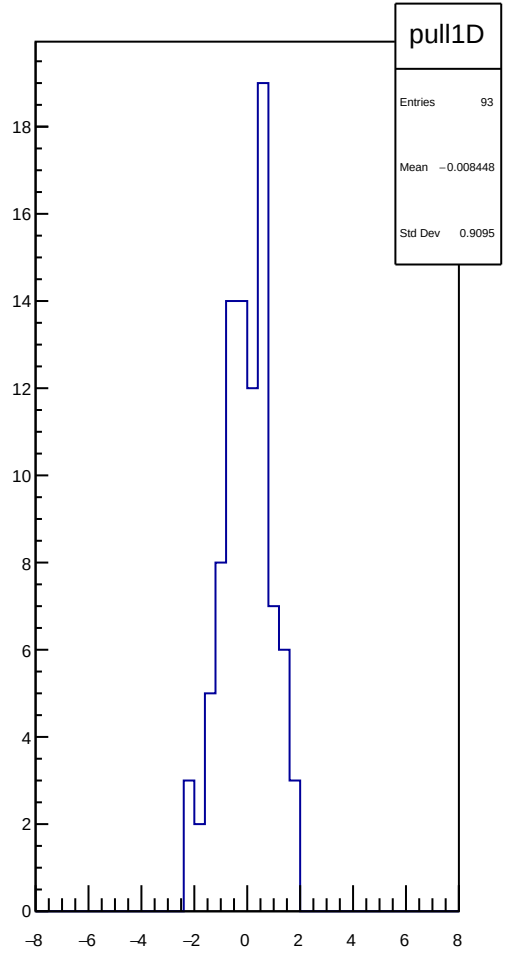

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 685 / 92
p0 1639 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560

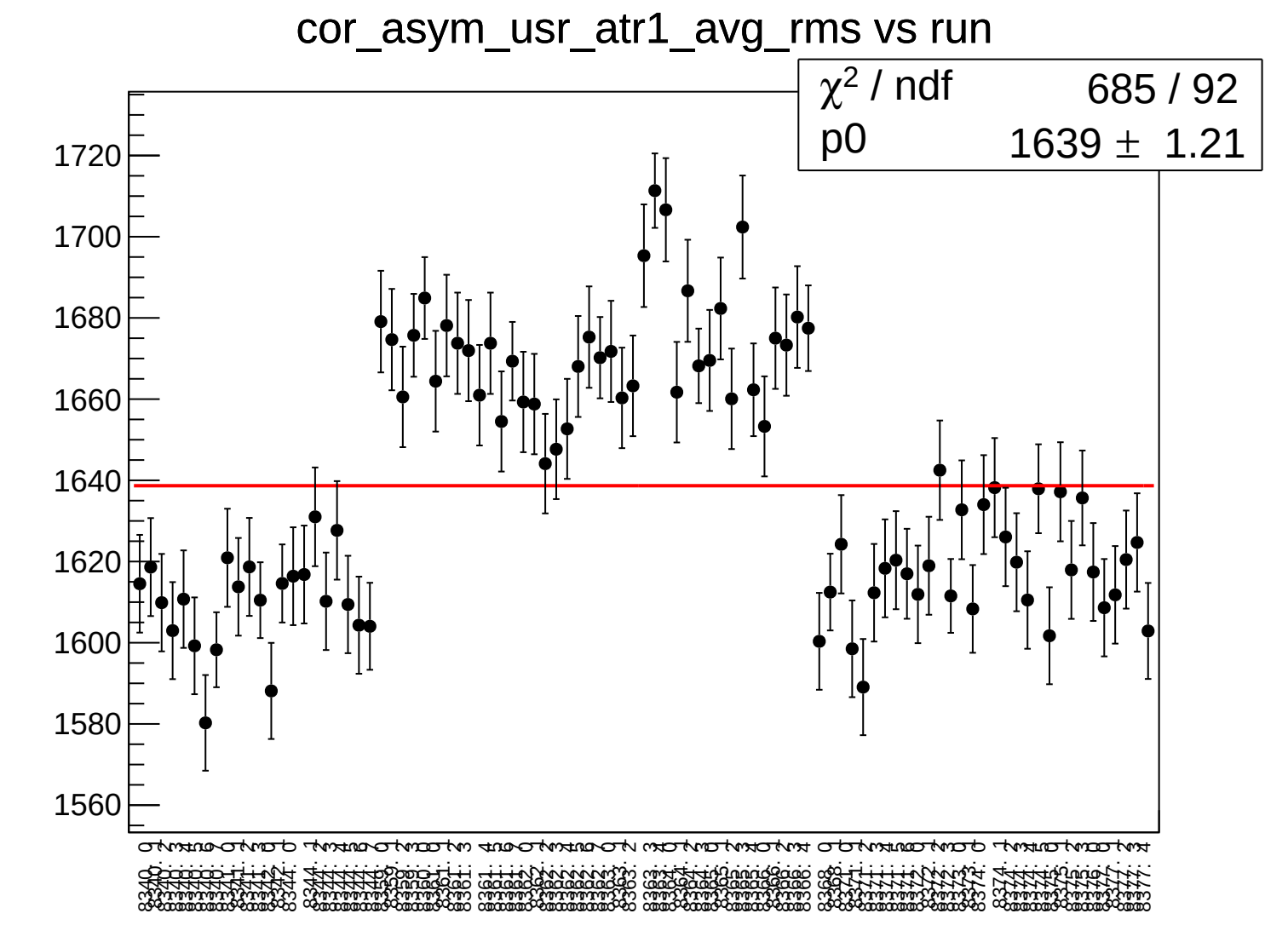

asym_usr_atr1_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 −3262 ± 2069
pull
Entries 93
Mean −1187
Std Dev 0

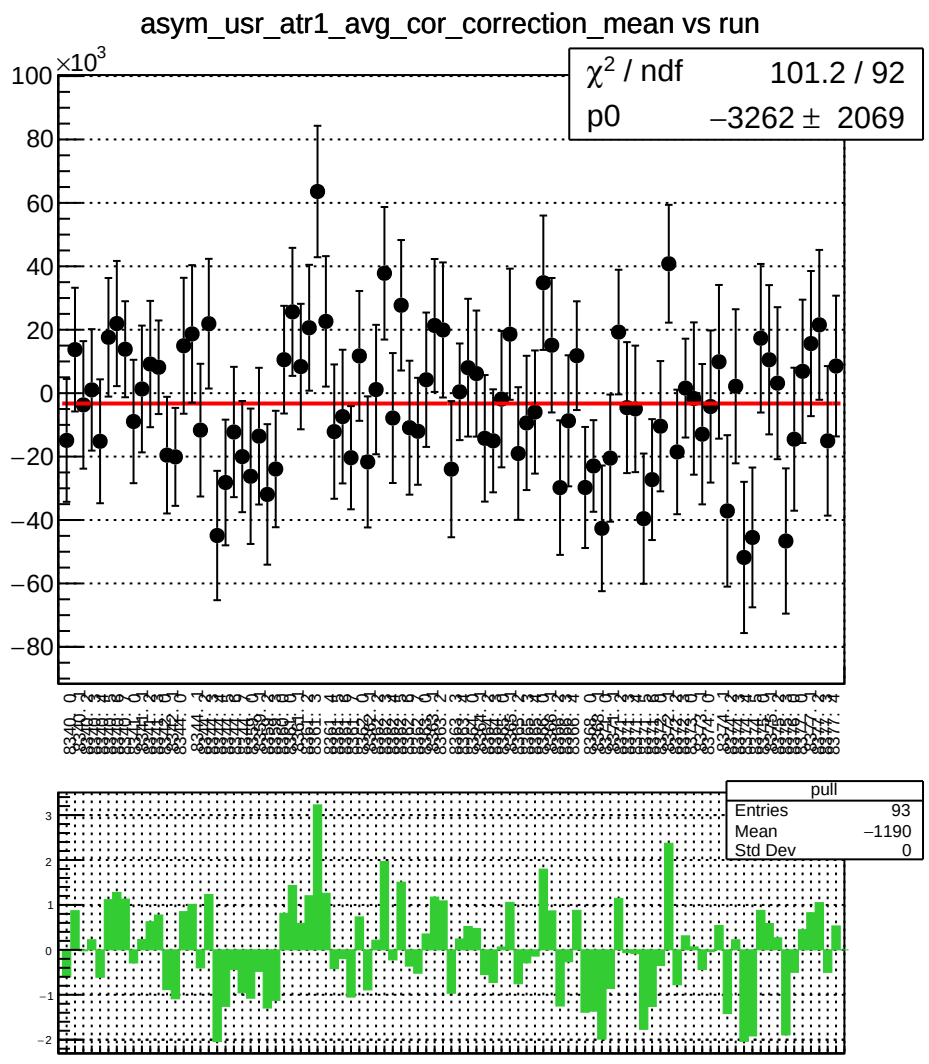

pull1D
Entries 93
Mean 0.002834
Std Dev 1.043

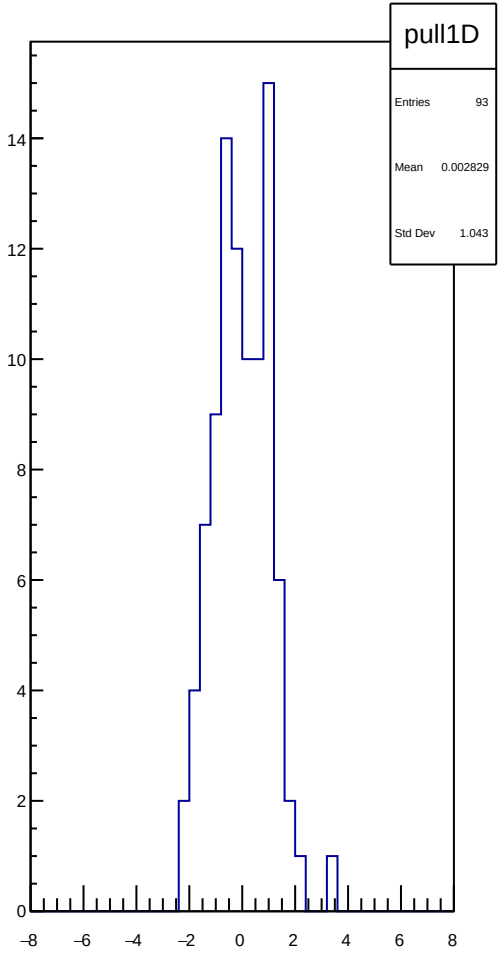

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8871 / 92
p0 1976 ± 1.463
2400
2300
2200
2100
2000
1900
1800
1700

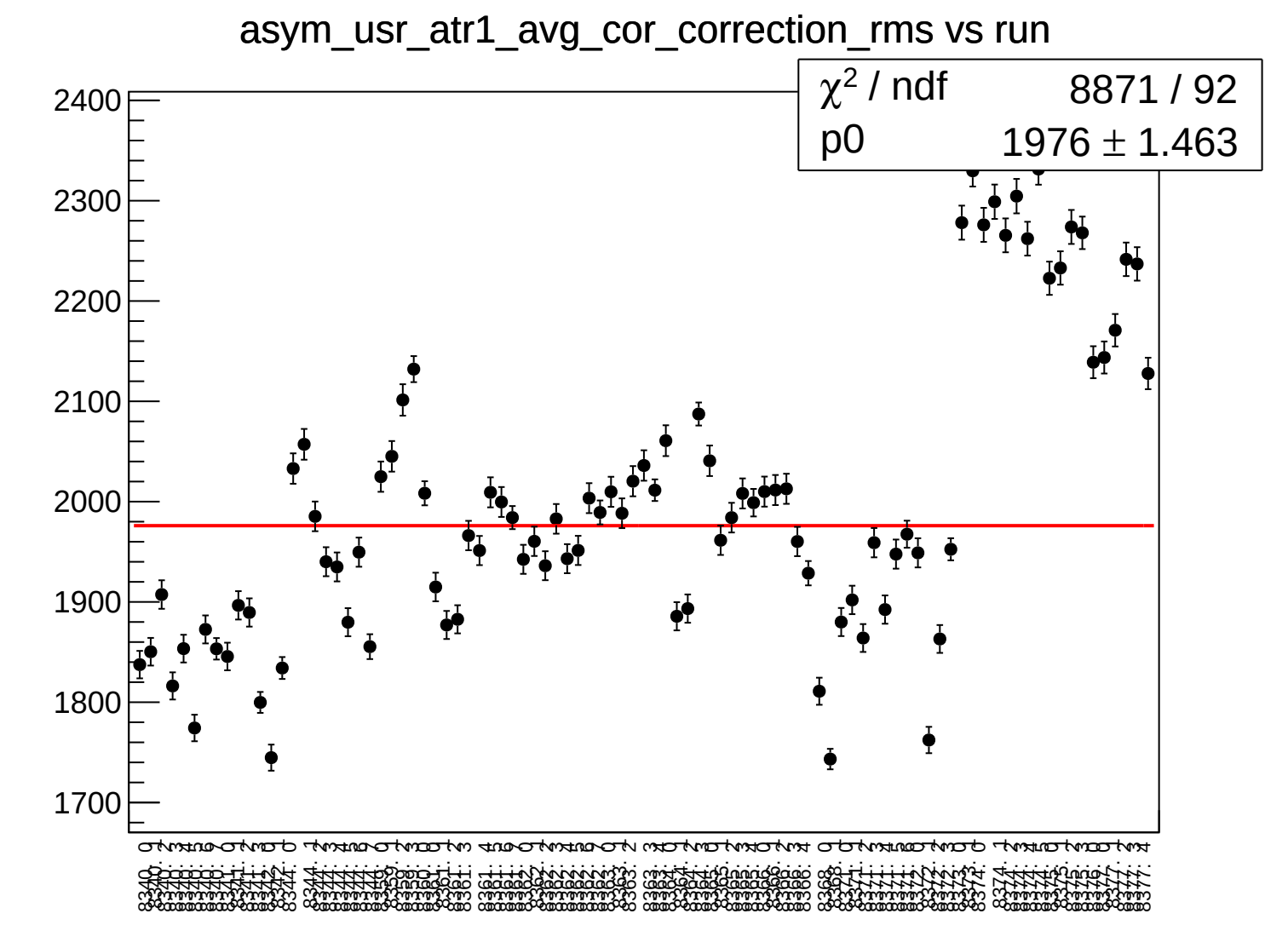

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.93 / 92
p0 −1626 ± 1712
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 459.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

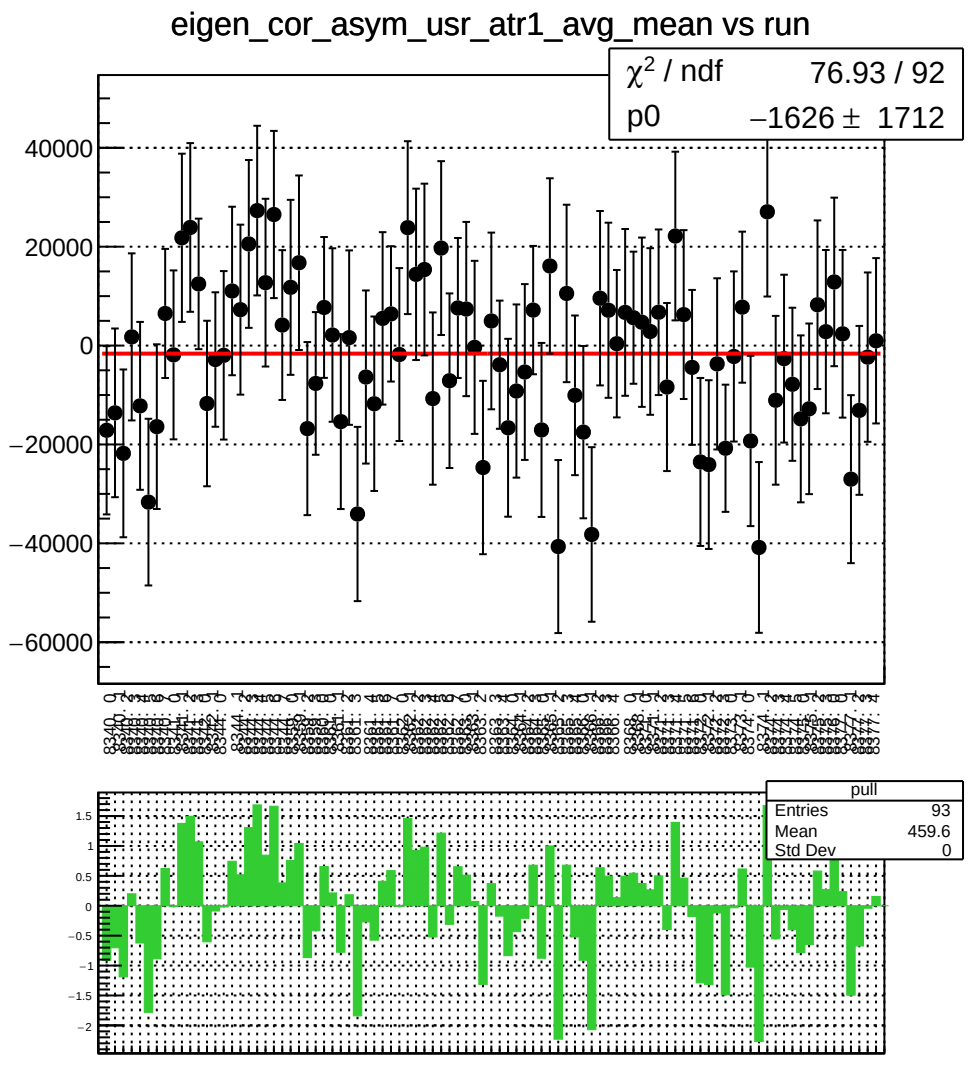

pull1D
Entries 93
Mean −0.008448
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

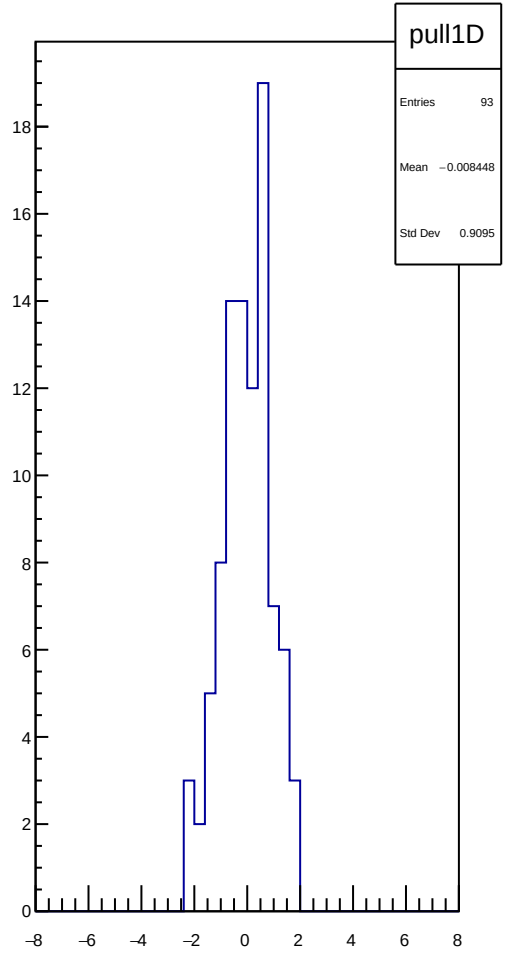

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 685 / 92
p0 1639 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560

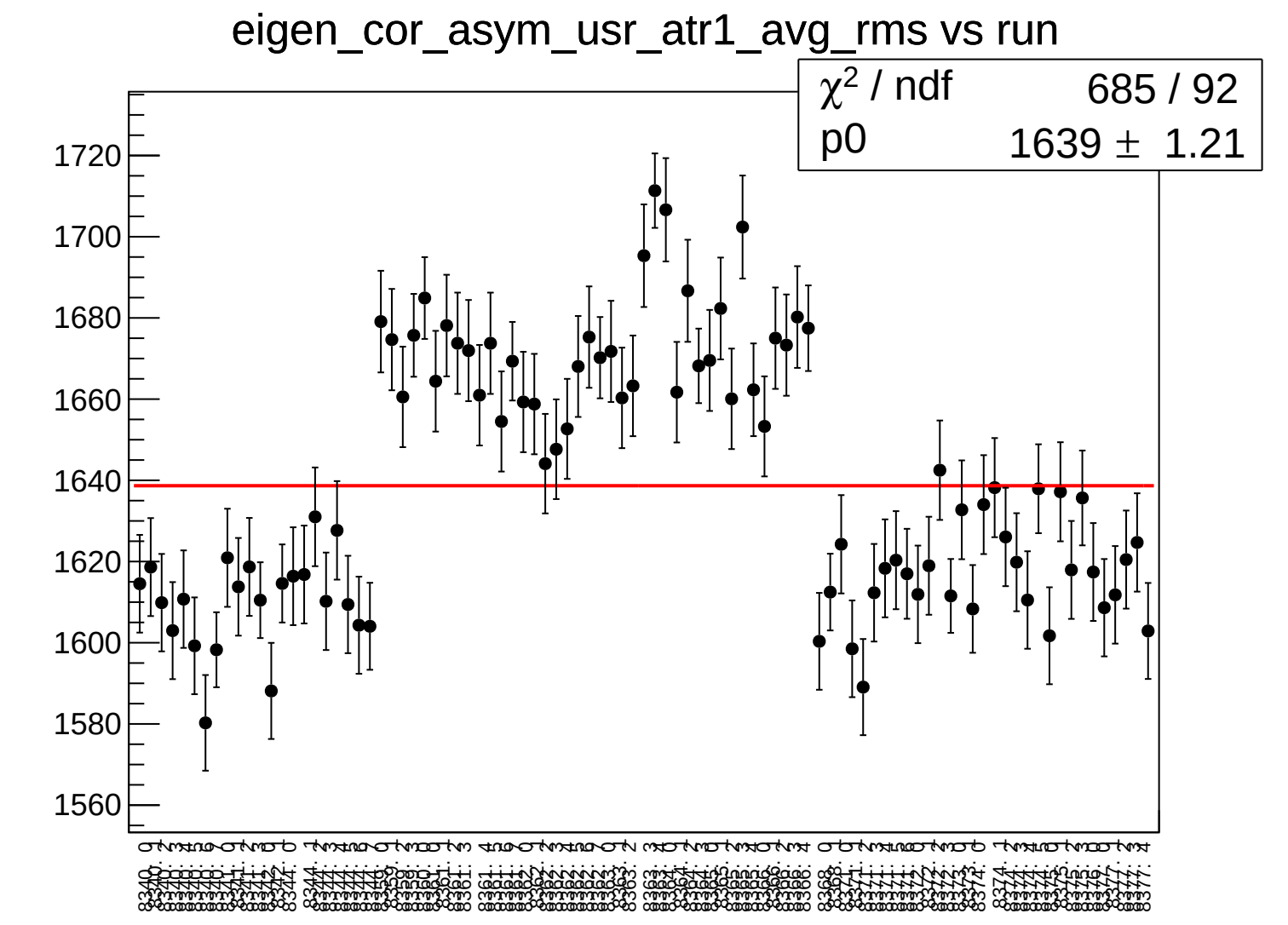

asym_usr_atr1_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −3262 ± 2069
pull
Entries 93
Mean −1190
Std Dev 0

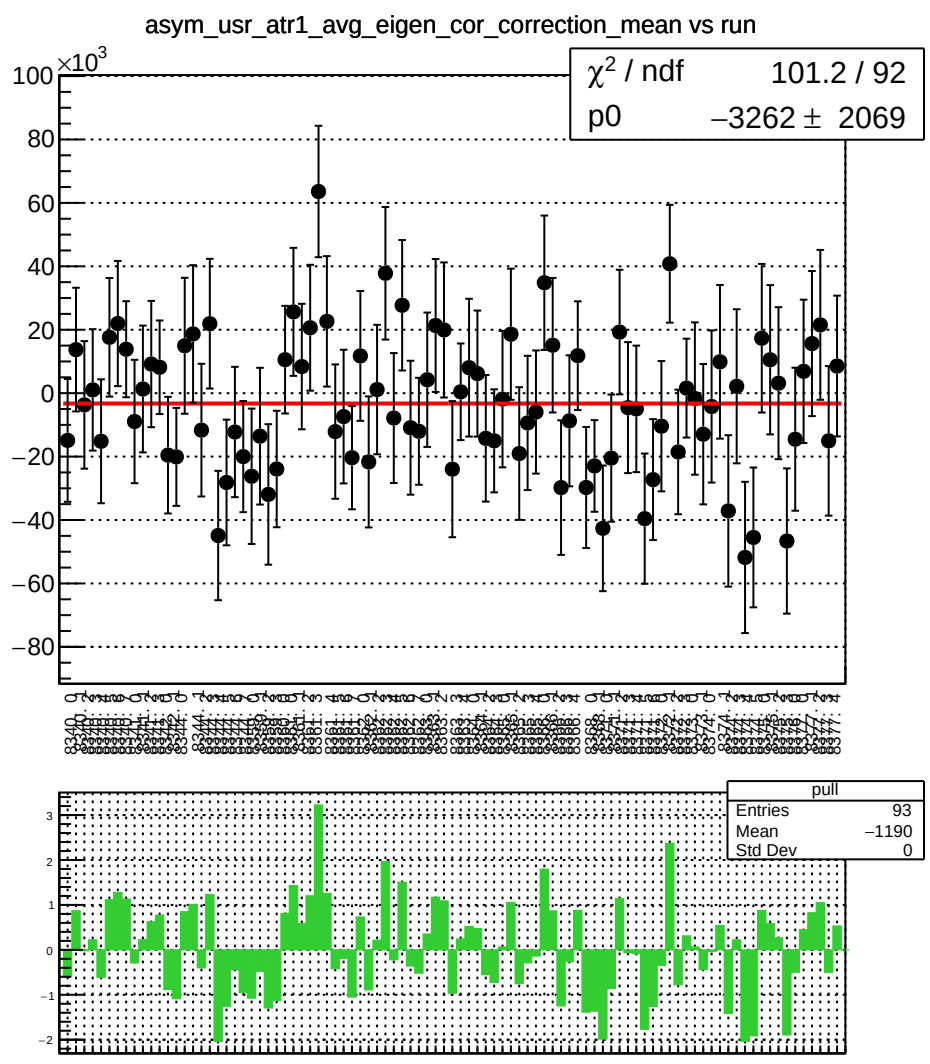

pull1D
Entries 93
Mean 0.002829
Std Dev 1.043

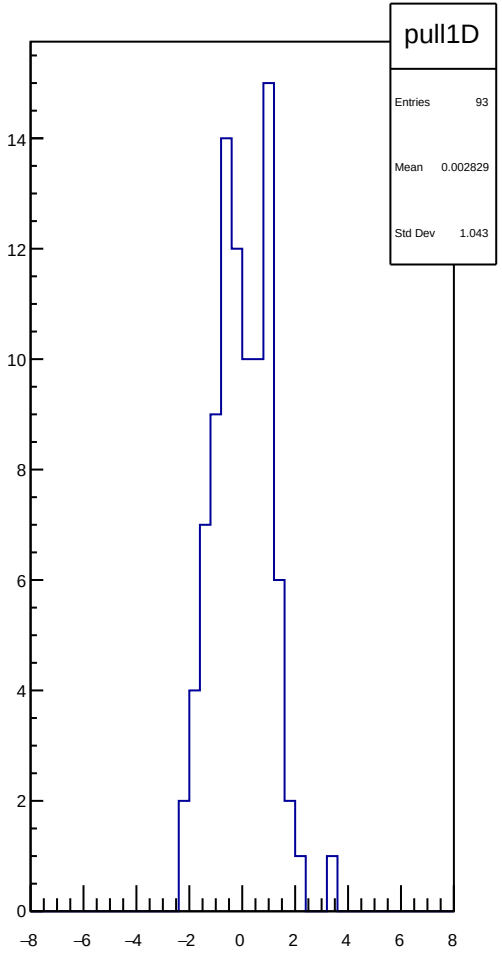

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8871 / 92
p0 1976 ± 1.463
2400
2300
2200
2100
2000
1900
1800
1700

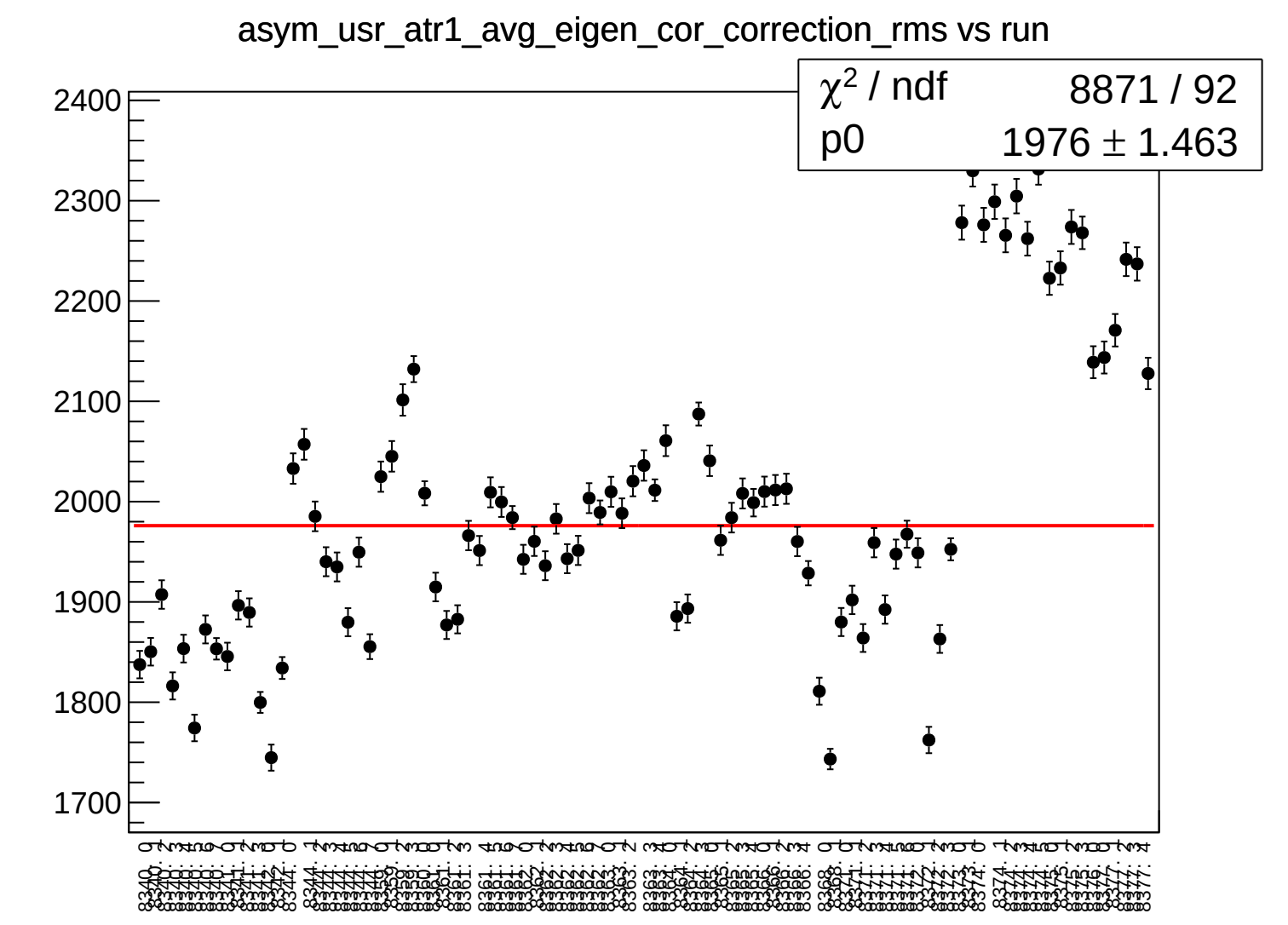

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 76.93 / 92
p0 −1626 ± 1712
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 459.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

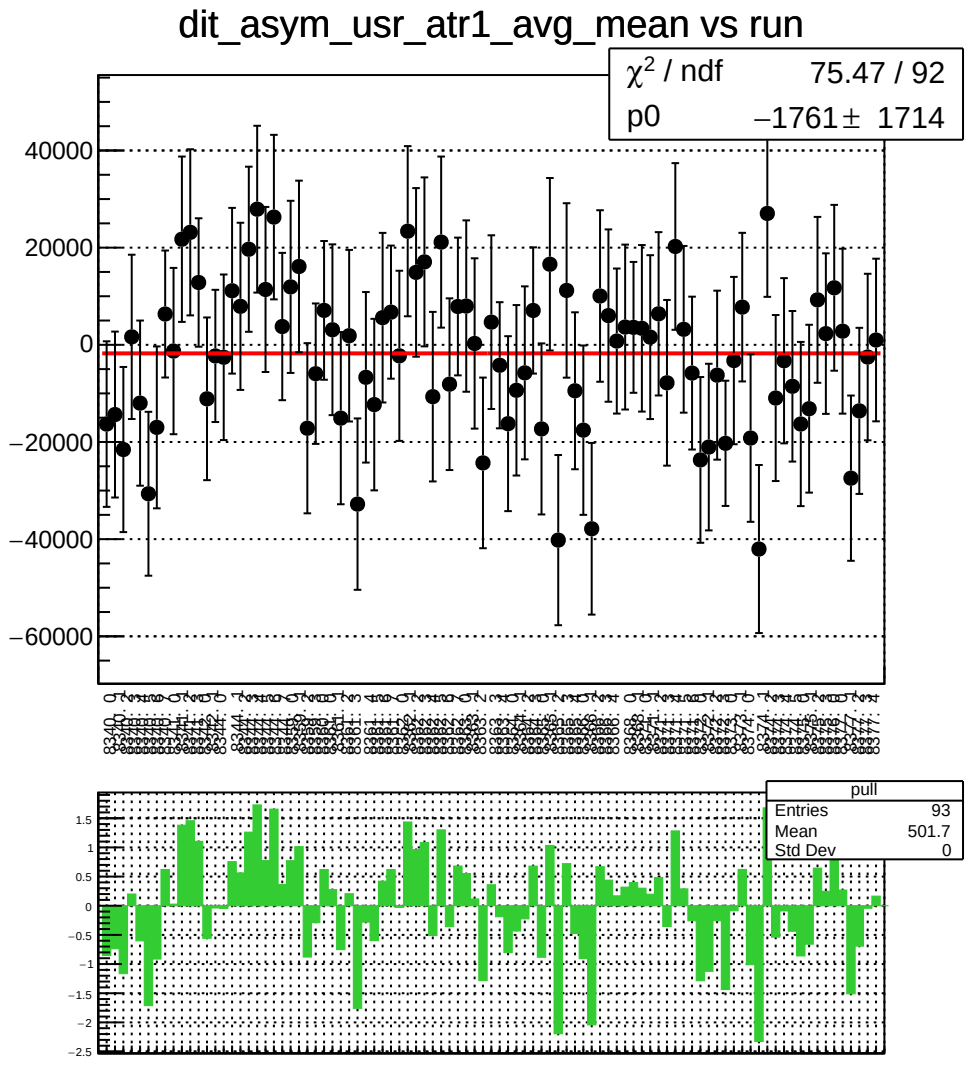

pull1D
Entries 93
Mean −0.008448
Std Dev 0.9095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

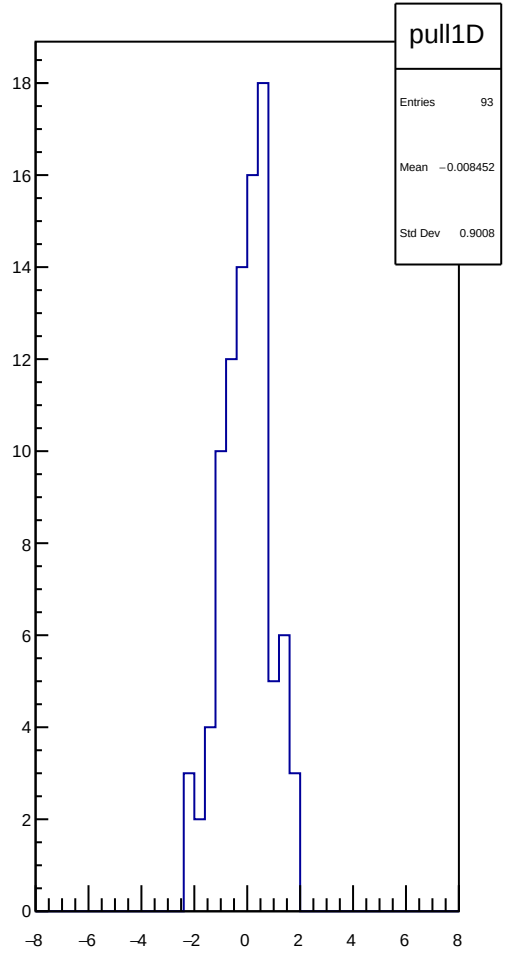

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 685 / 92
p0 1639 ± 1.21
1720
1700
1680
1660
1640
1620
1600
1580
1560

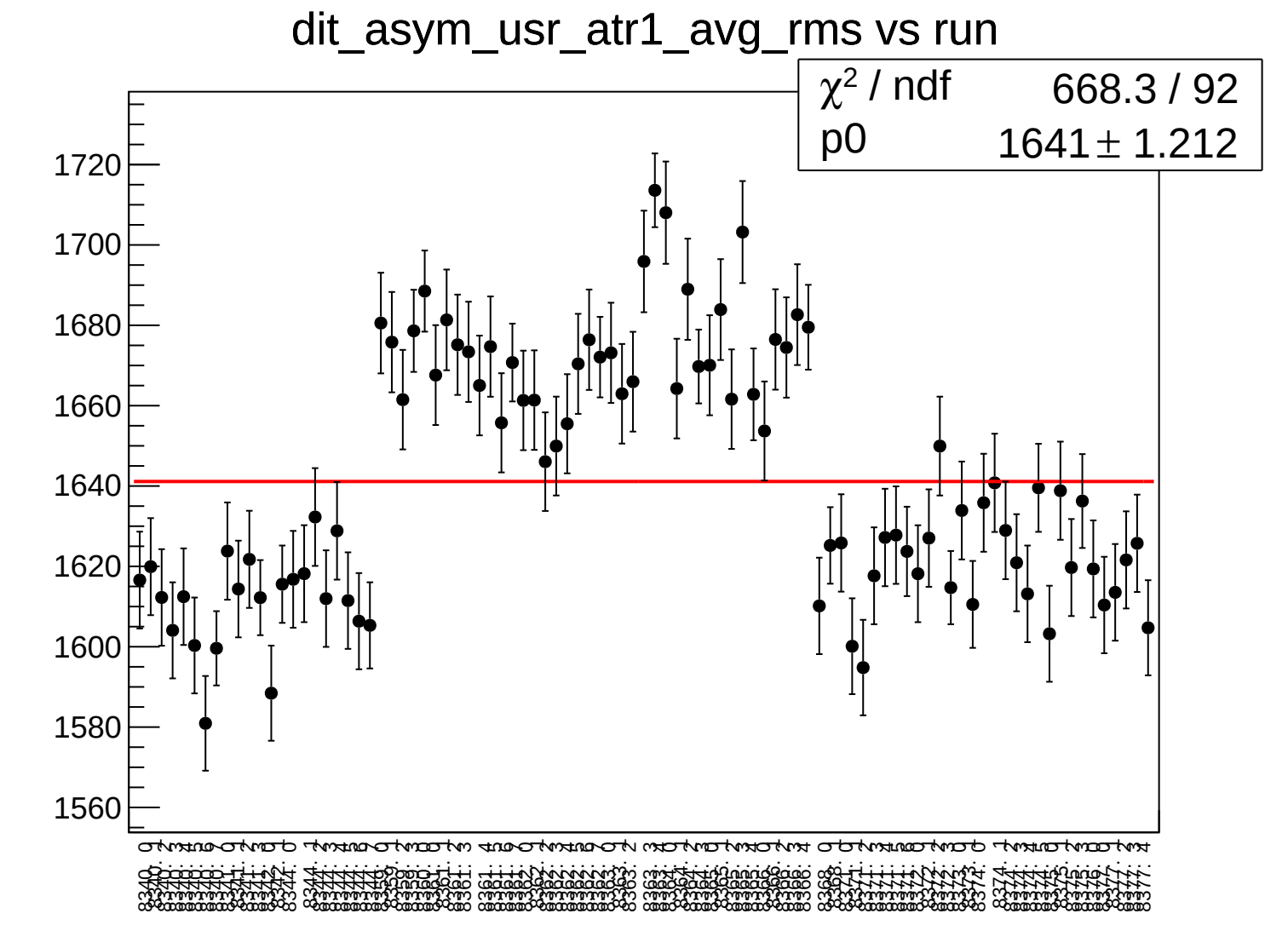

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 −3262 ± 2069
pull
Entries 93
Mean −1190
Std Dev 0

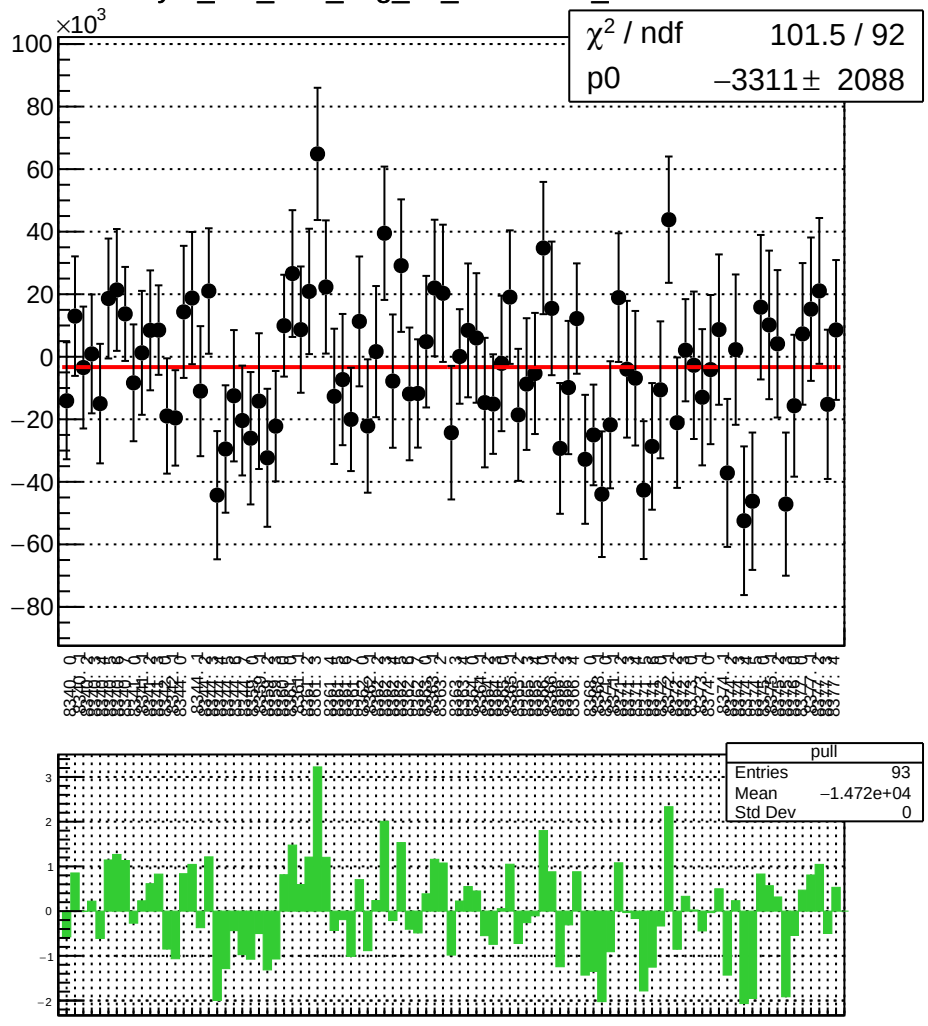

pull1D
Entries 93
Mean 0.002829
Std Dev 1.043

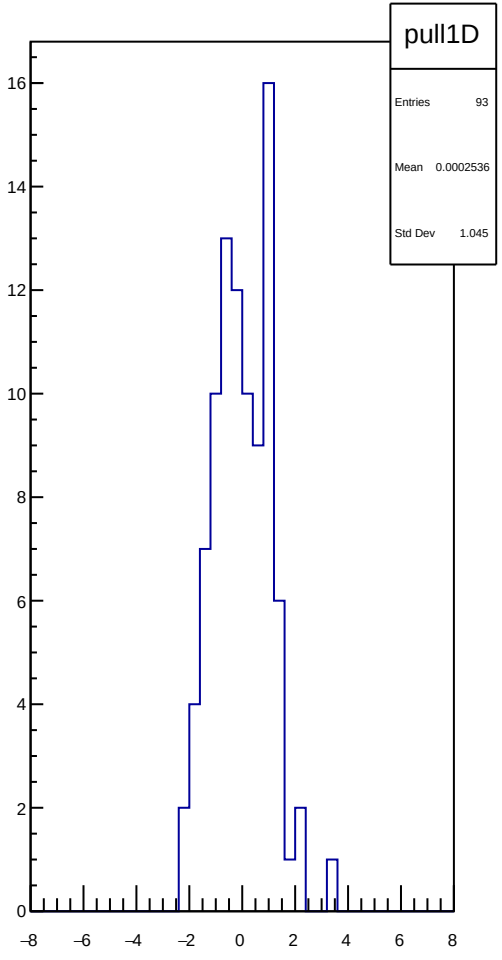

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8871 / 92
p0 1976 ± 1.463
2400
2300
2200
2100
2000
1900
1800
1700

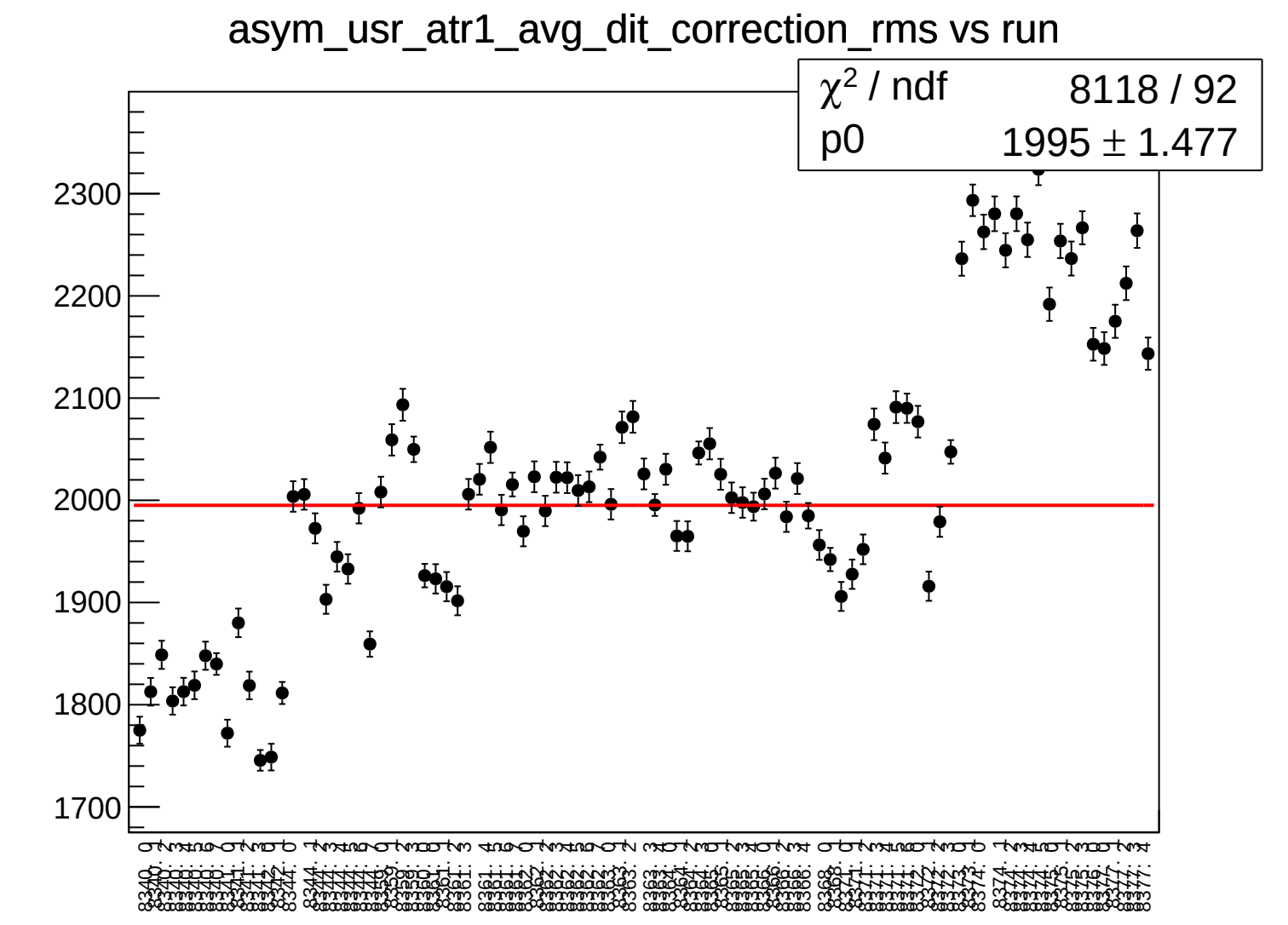

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.47 / 92
p0 −1761 ± 1714
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 501.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

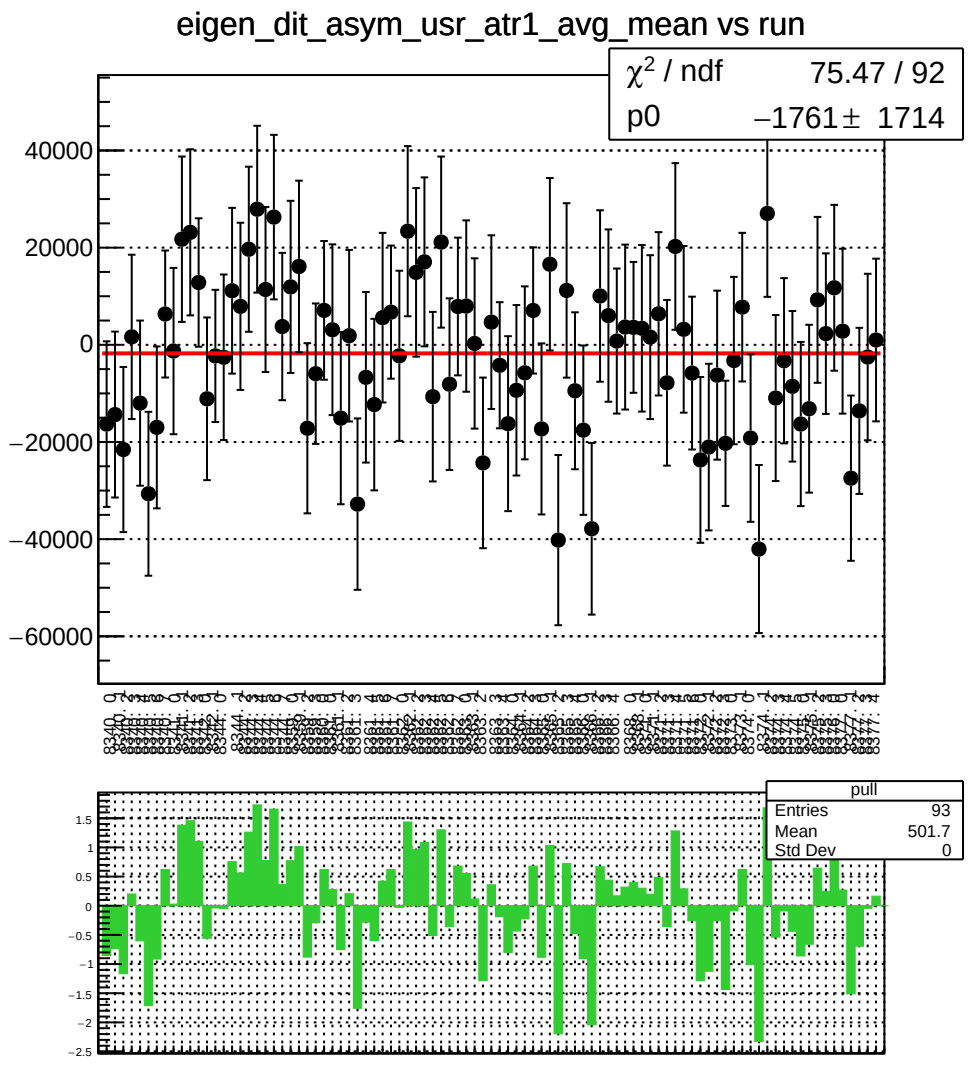

pull1D
Entries 93
Mean −0.008452
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

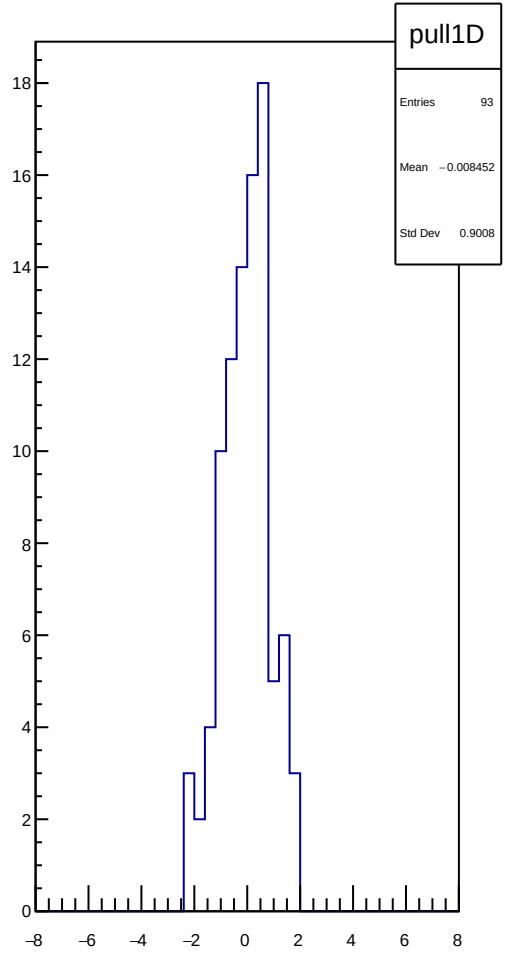

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 668.3 / 92
p0 1641 ± 1.212
1720
1700
1680
1660
1640
1620
1600
1580
1560

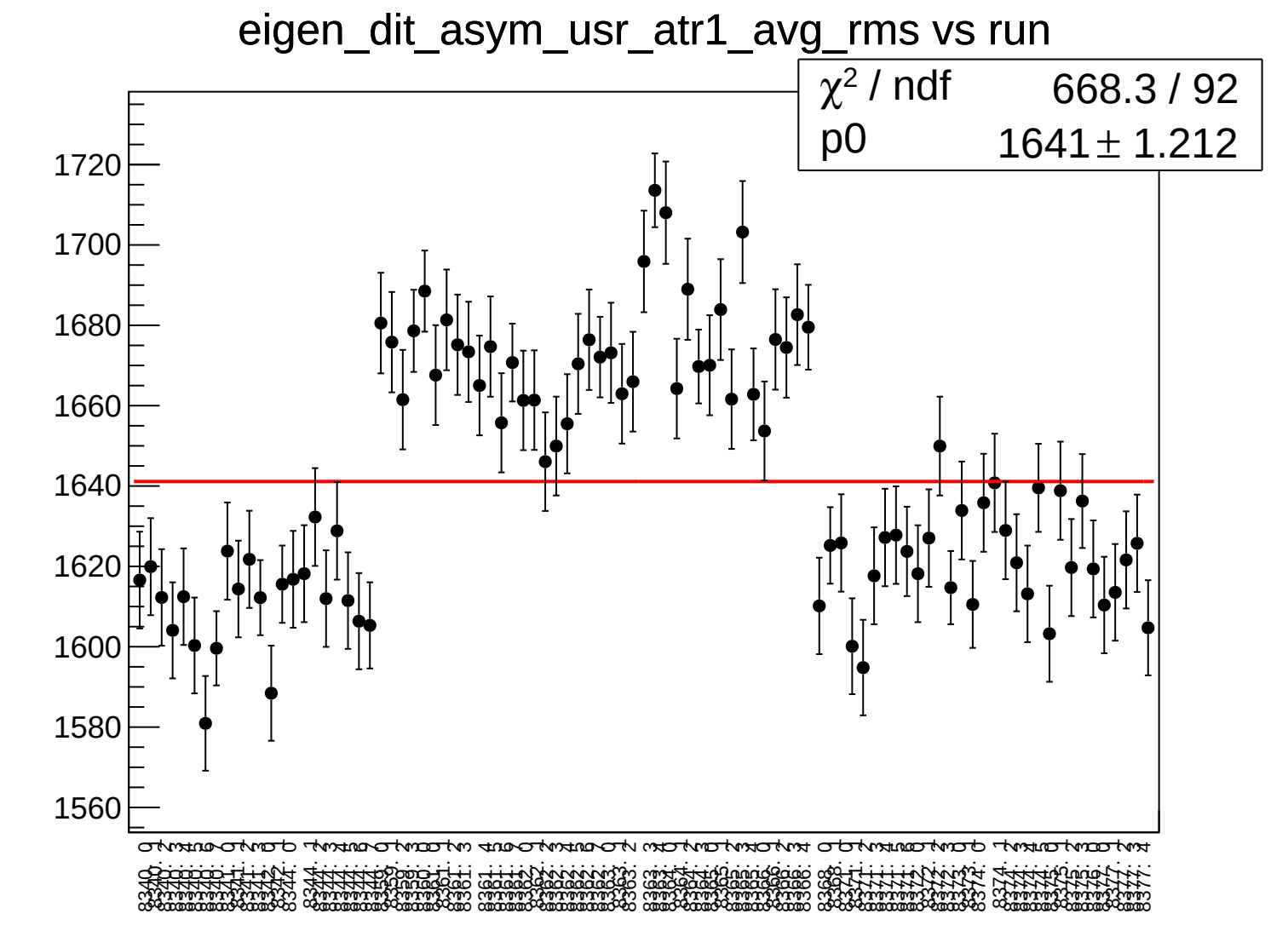

asym_usr_atr1_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.5 / 92
p0 −3311 ± 2088
pull
Entries 93
Mean −1.472e+04
Std Dev 0

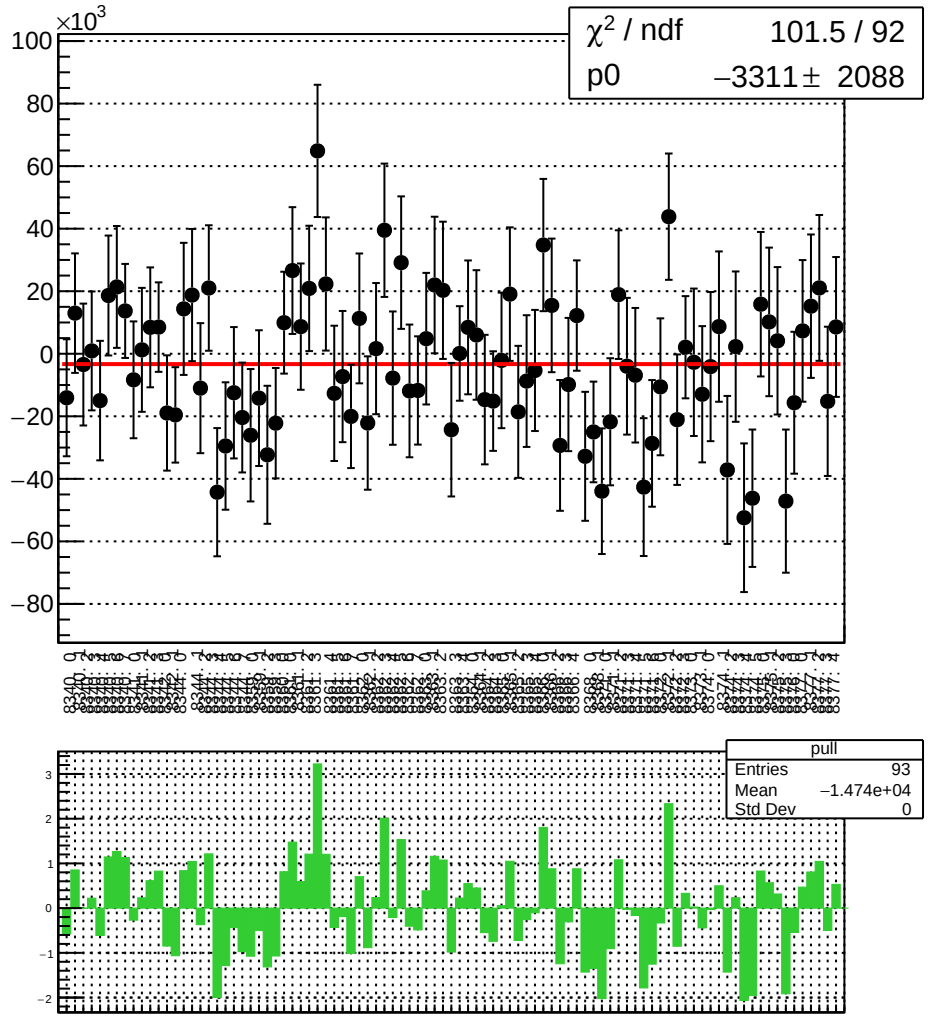

pull1D
Entries 93
Mean 0.0002536
Std Dev 1.045

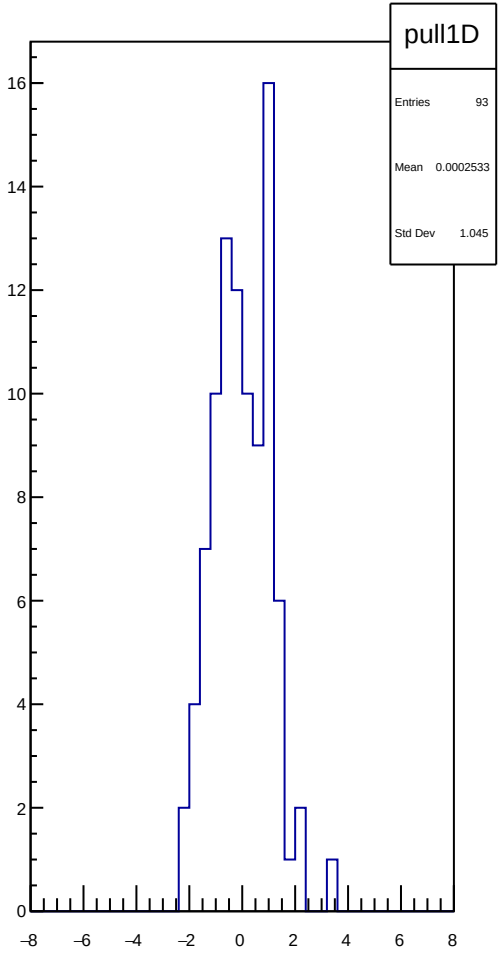

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8118 / 92
p0 1995 ± 1.477
2300
2200
2100
2000
1900
1800
1700

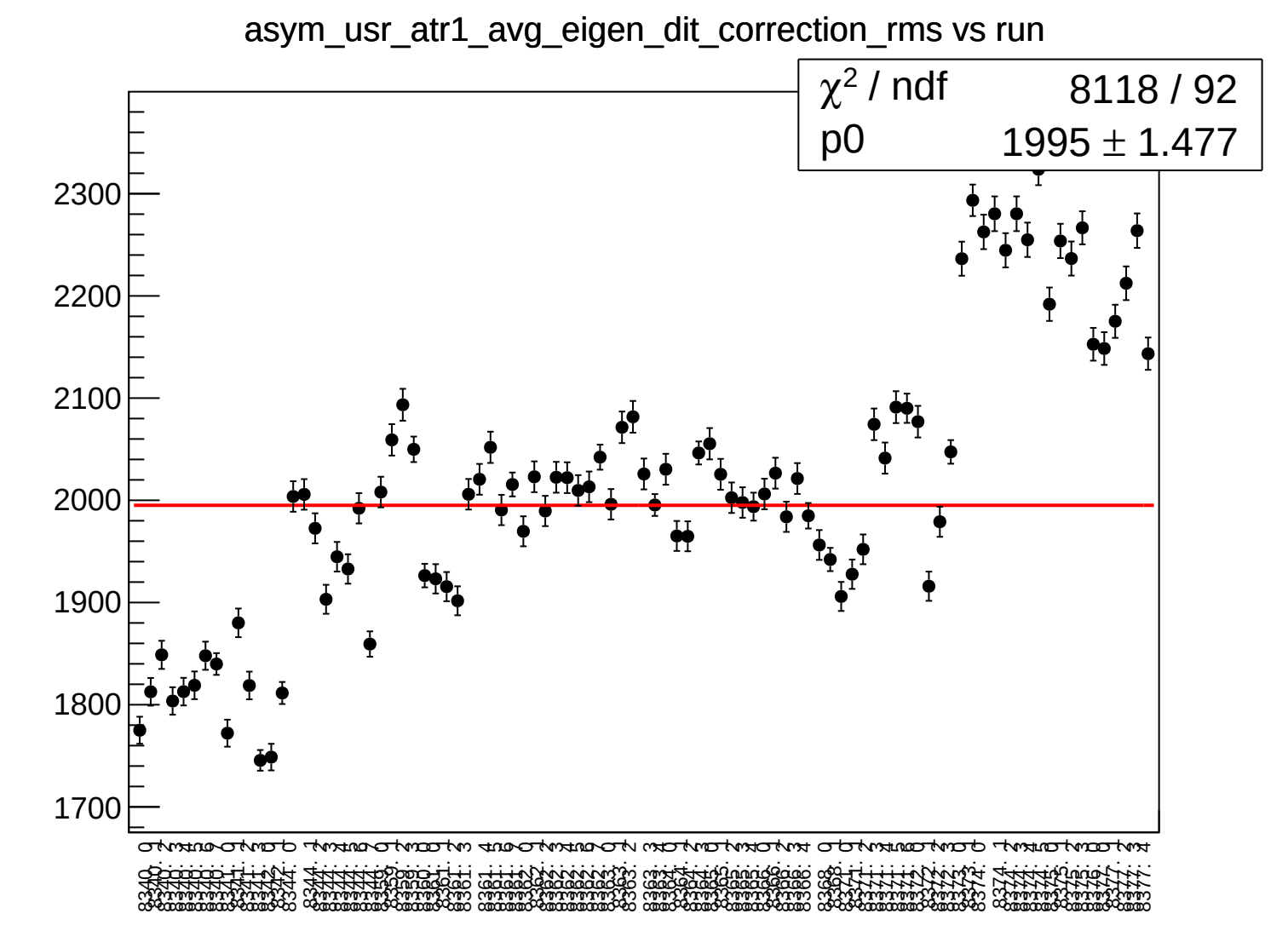

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 75.47 / 92
p0 −1761 ± 1714
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 501.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

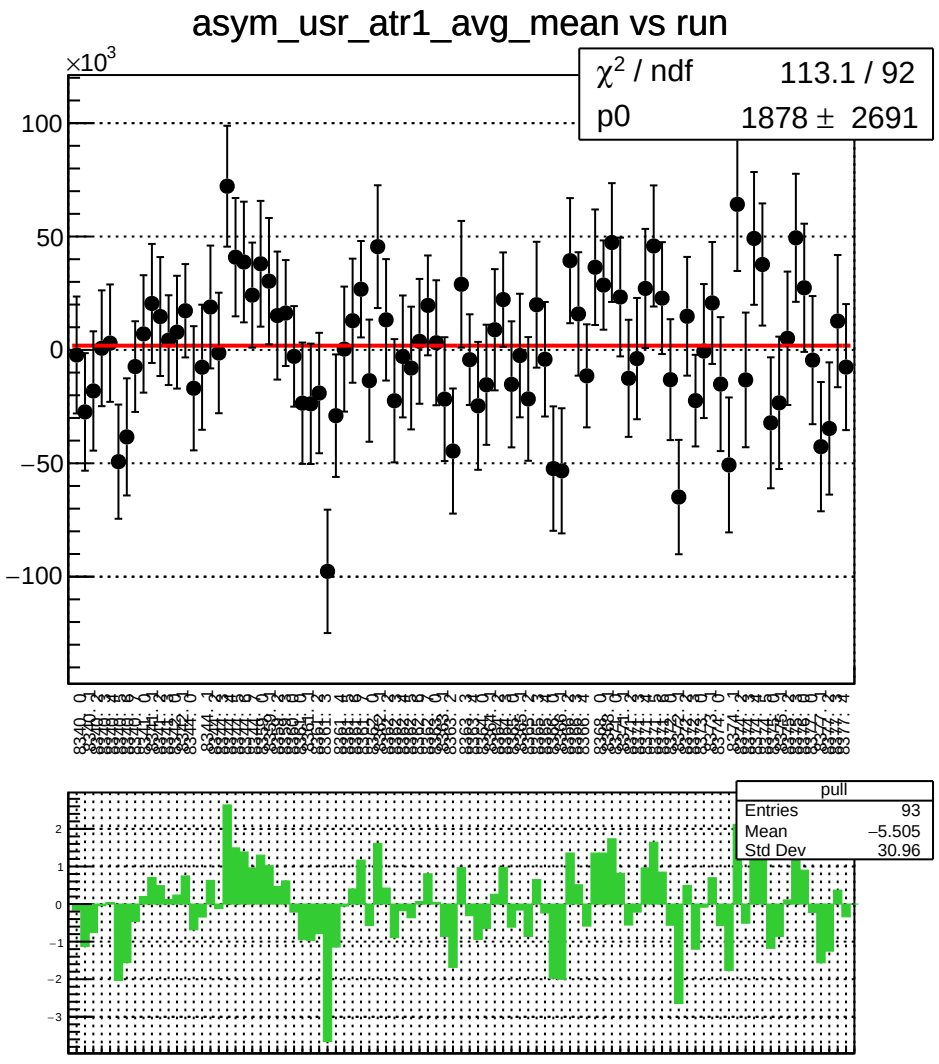

pull1D
Entries 93
Mean −0.008452
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

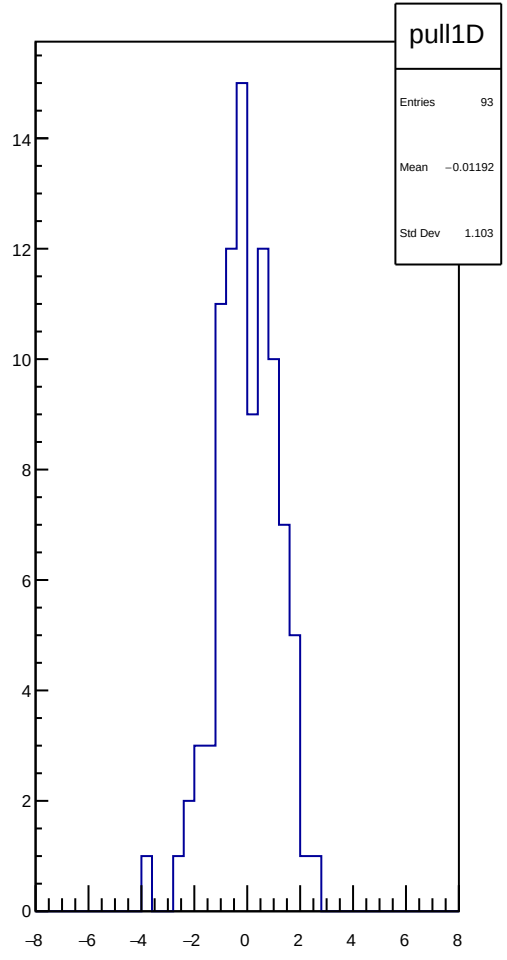

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 668.3 / 92
p0 1641 ± 1.212
1720
1700
1680
1660
1640
1620
1600
1580
1560

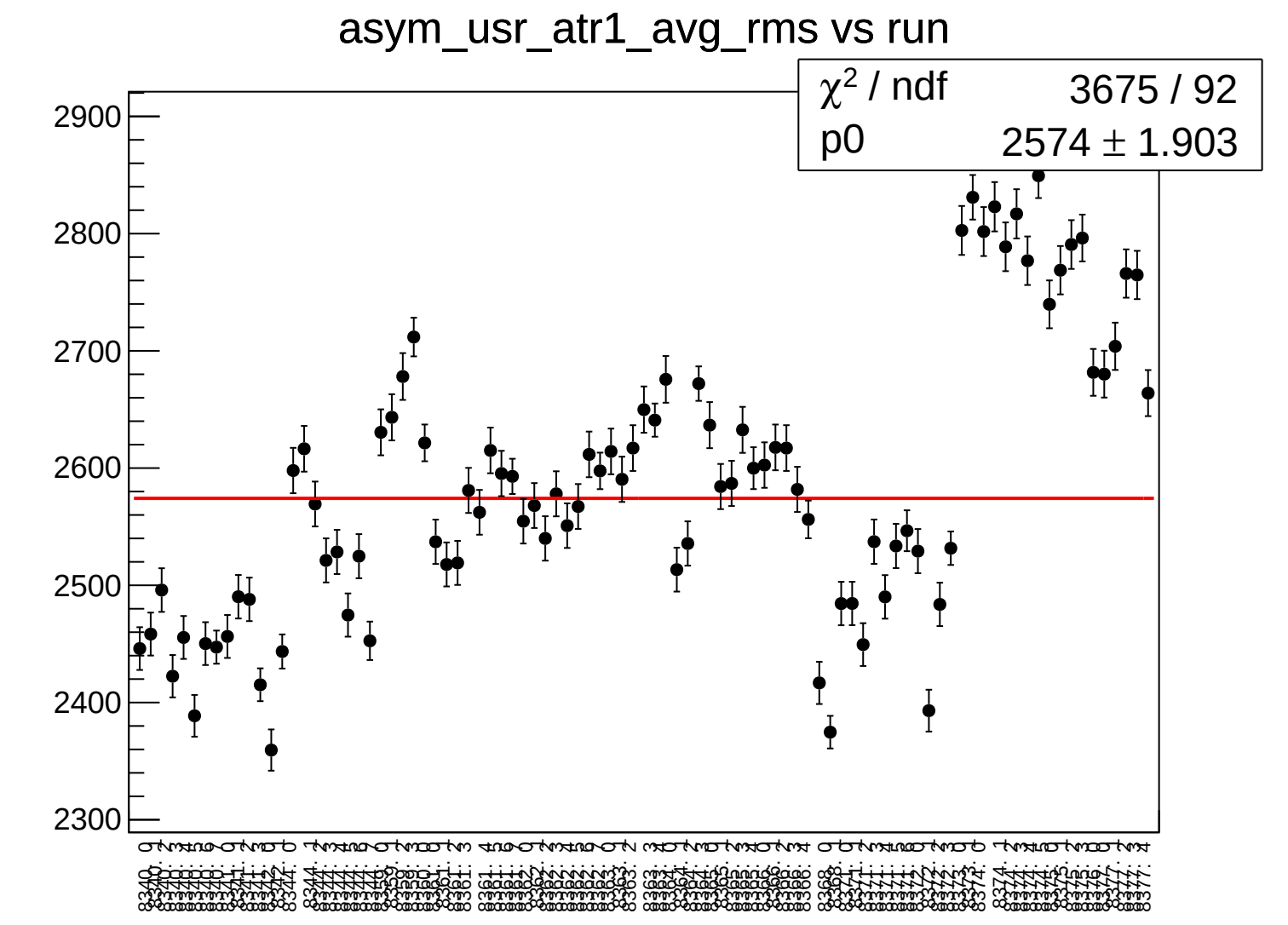

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 101.5 / 92
p0 −3311 ± 2088
pull
Entries 93
Mean −1.474e+04
Std Dev 0

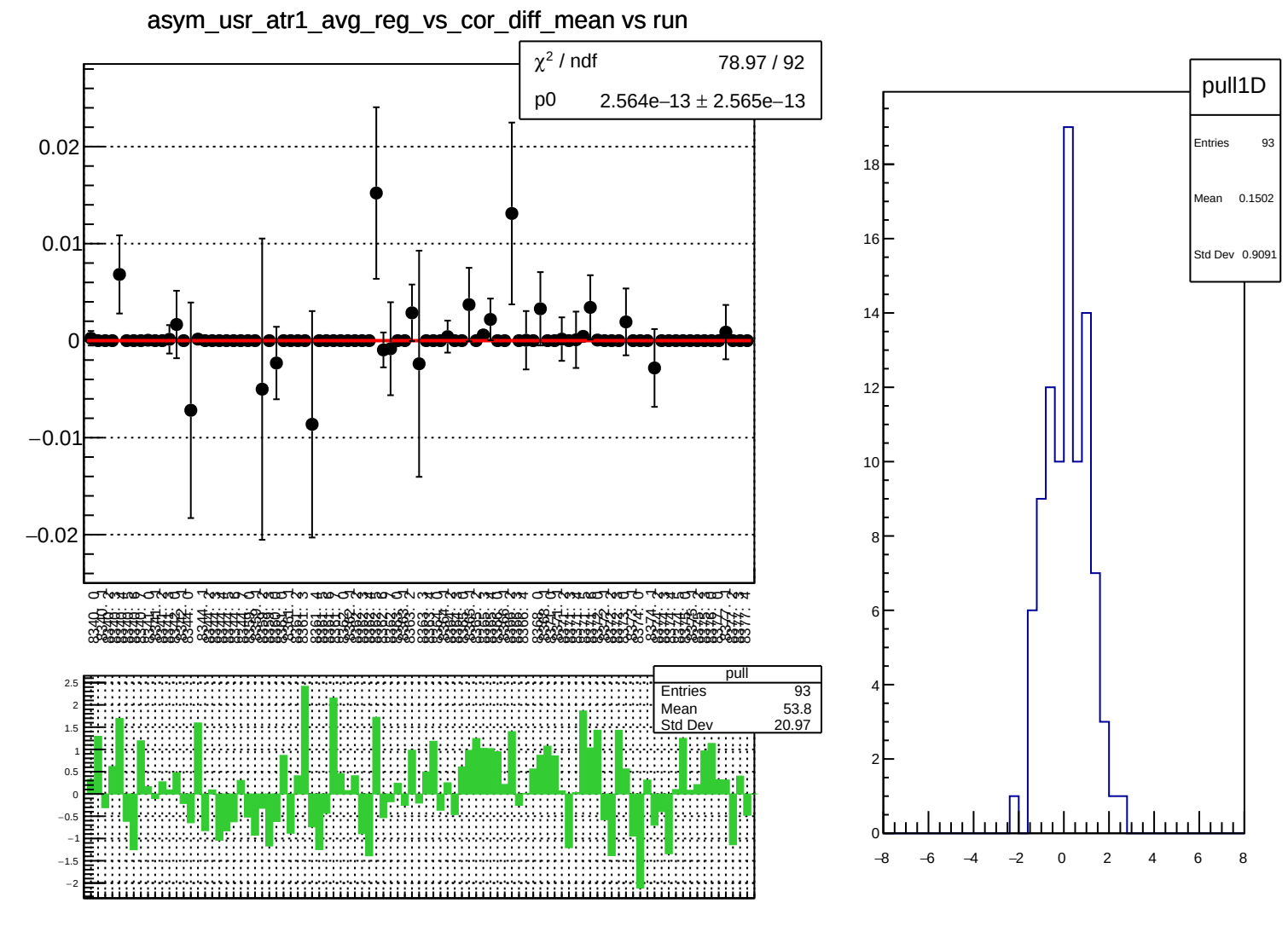

pull1D
Entries 93
Mean 0.0002533
Std Dev 1.045

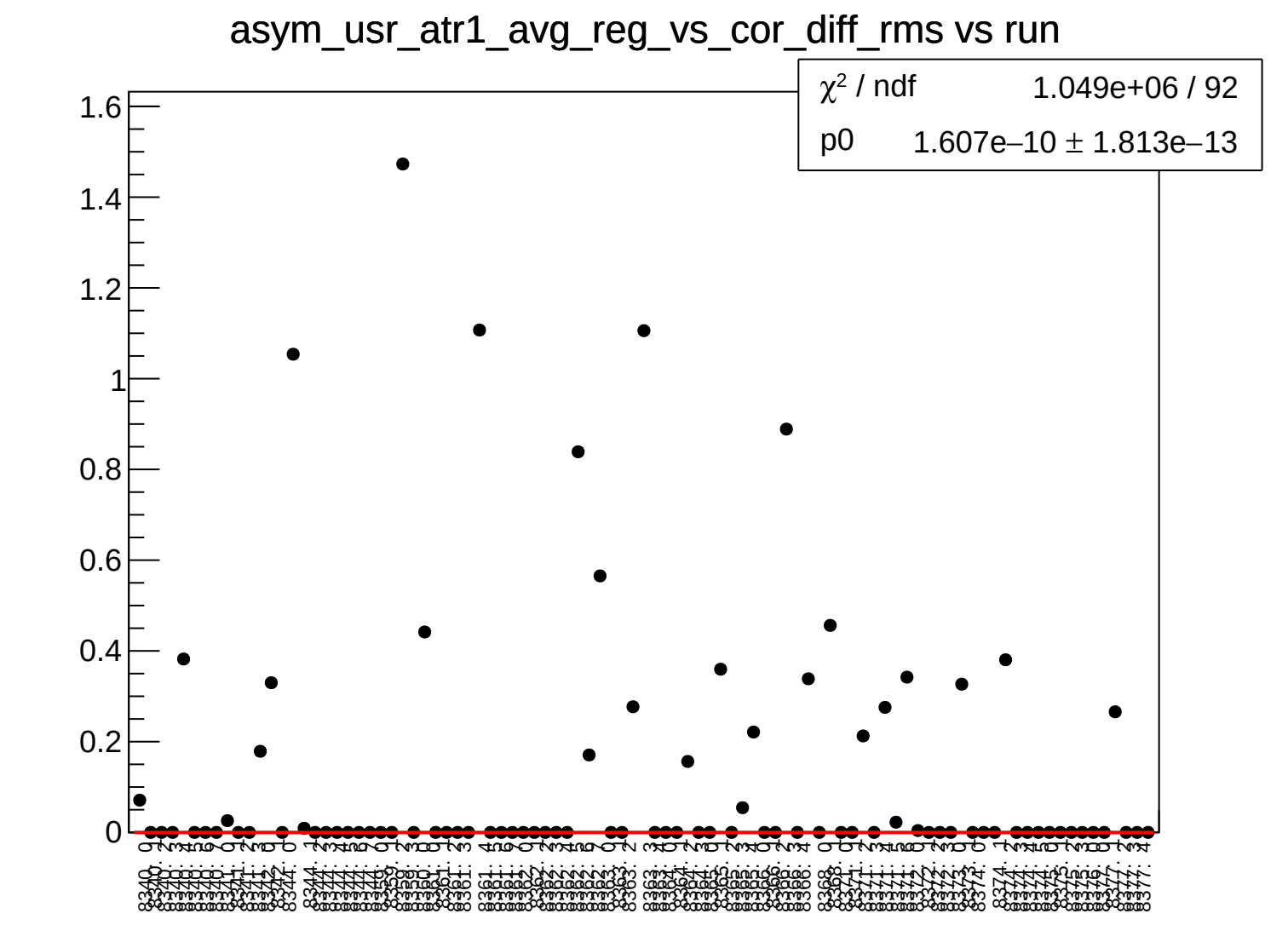

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8118 / 92
p0 1995 ± 1.477
2300
2200
2100
2000
1900
1800
1700

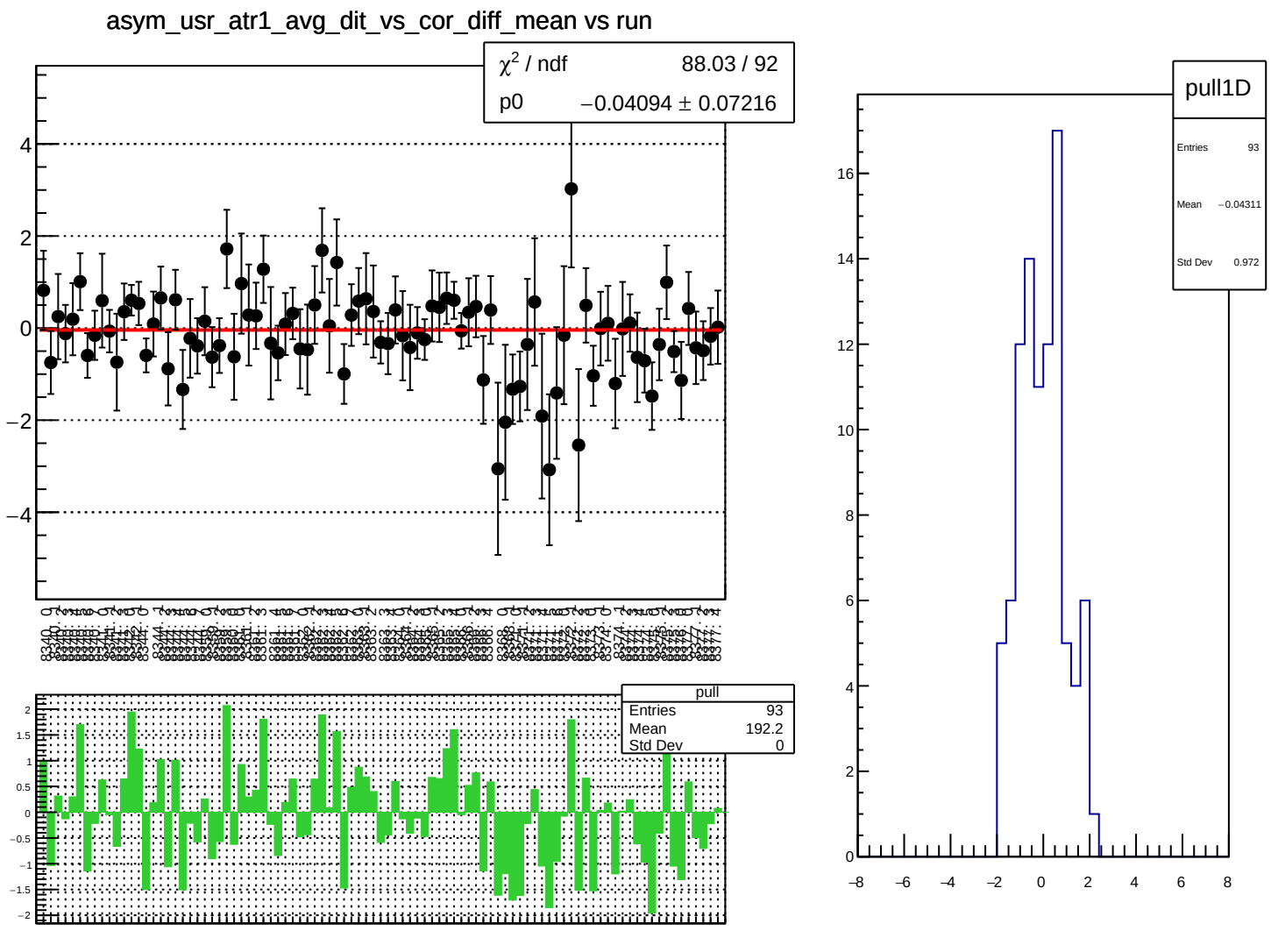

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 113.1 / 92
p0 1878 ± 2691
100
50
0
−50
−100
pull
Entries 93
Mean −5.505
Std Dev 30.96
2
1
0
−1
−2
−3

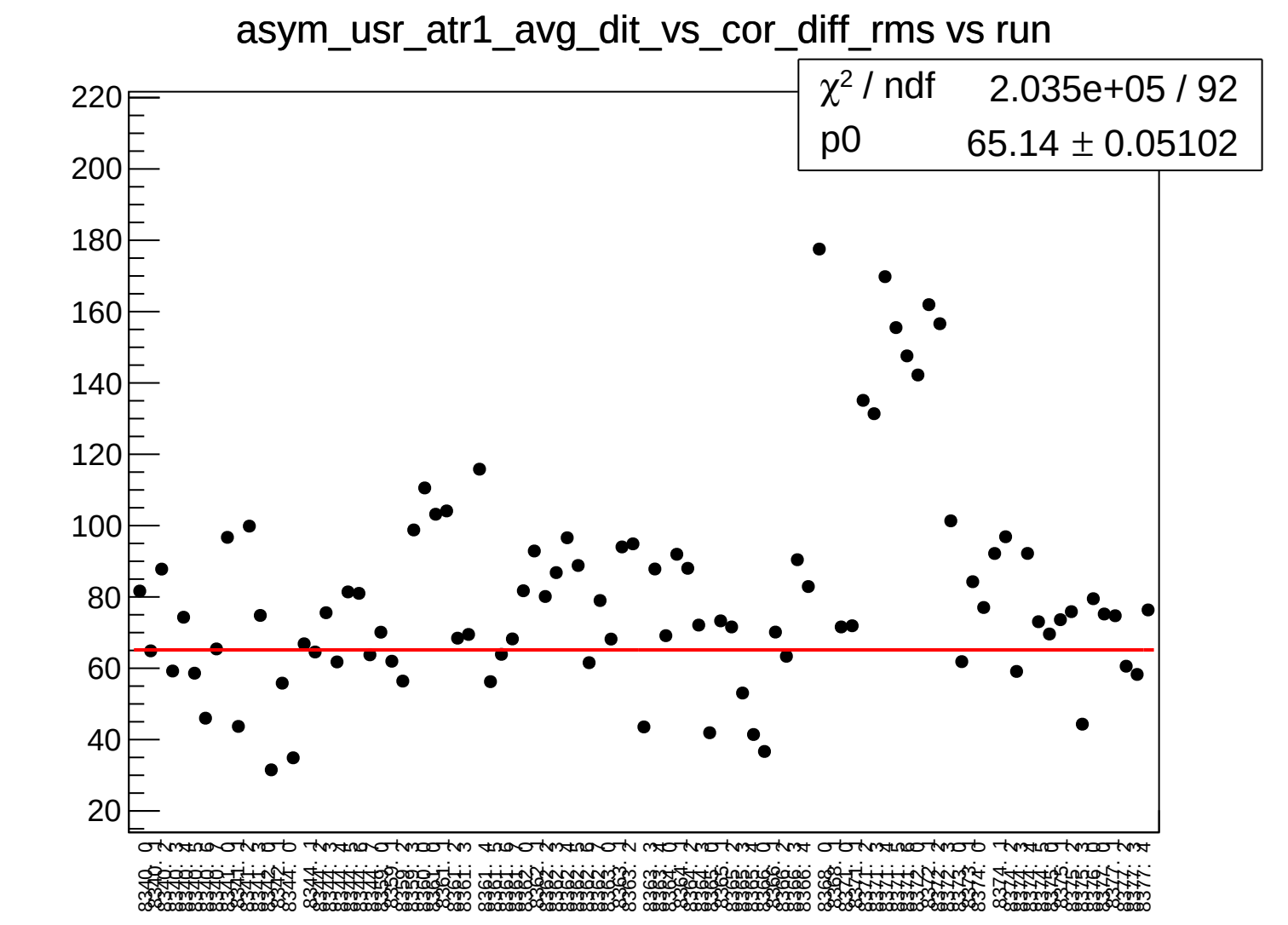

pull1D
Entries 93
Mean −0.01192
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

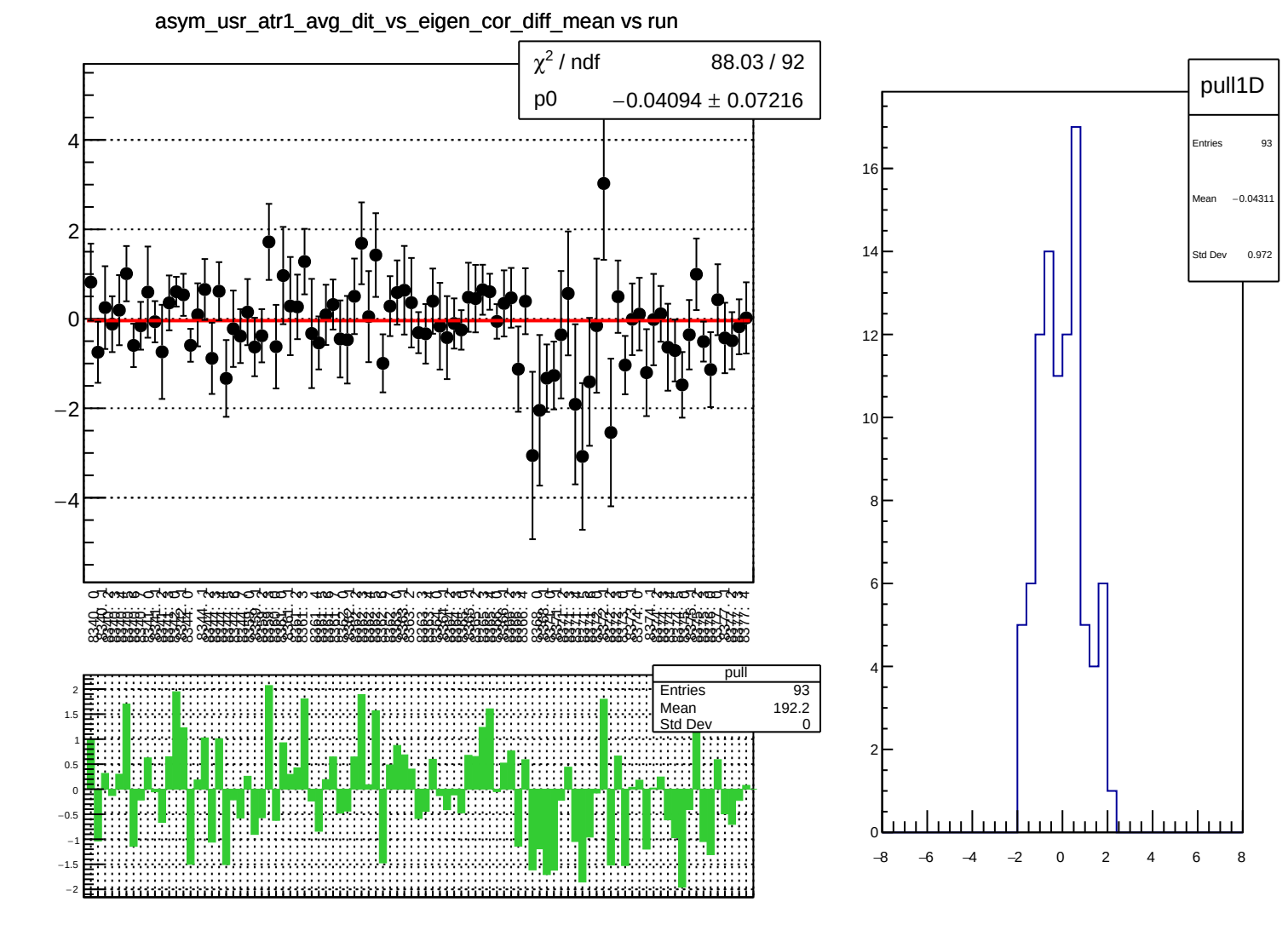

asym_usr_atr1_avg_rms vs run
χ² / ndf 3675 / 92
p0 2574 ± 1.903
2900
2800
2700
2600
2500
2400
2300

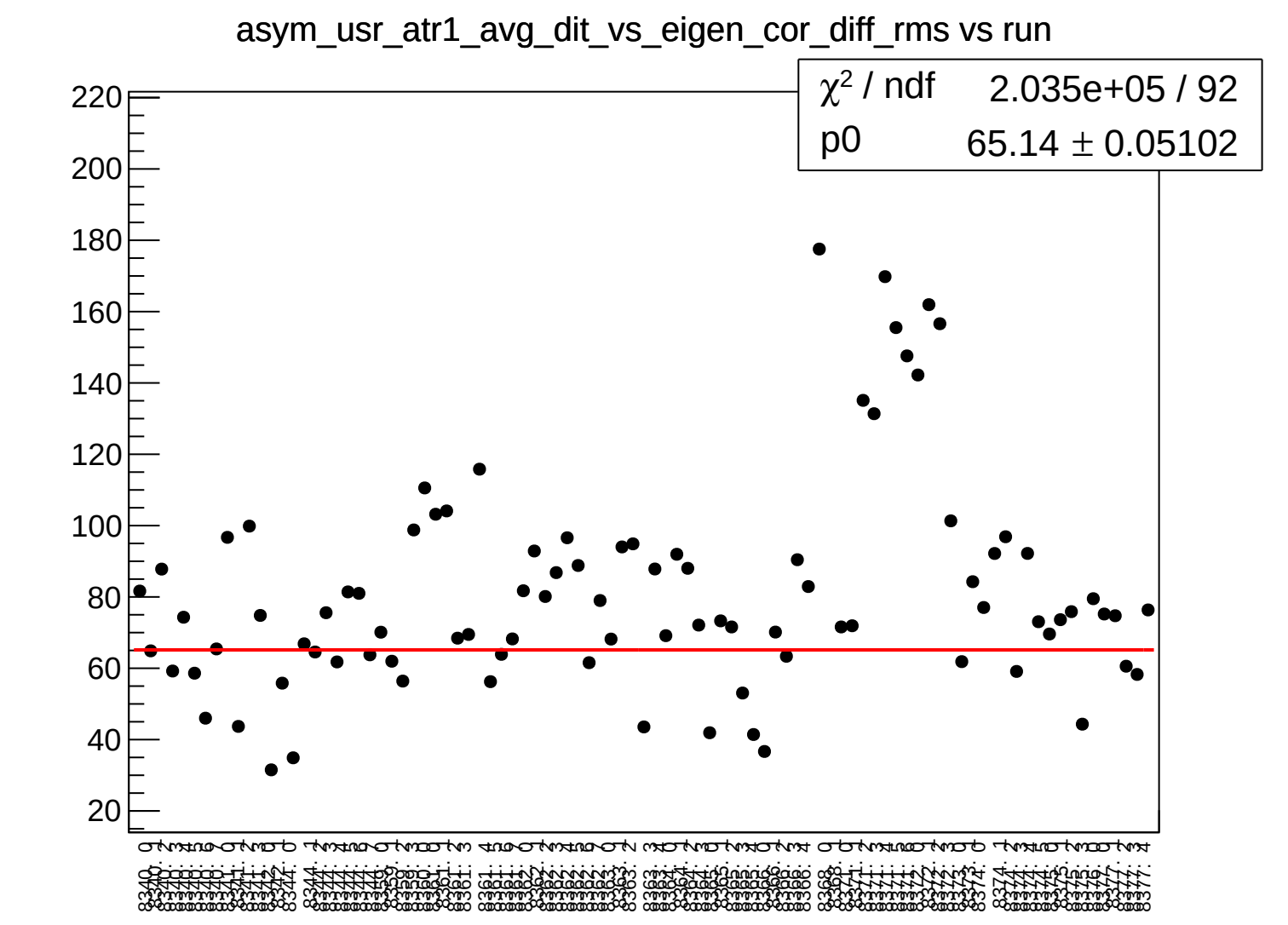

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.97 / 92
p0 2.564e−13 ± 2.565e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 53.8
Std Dev 20.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.1502
Std Dev 0.9091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

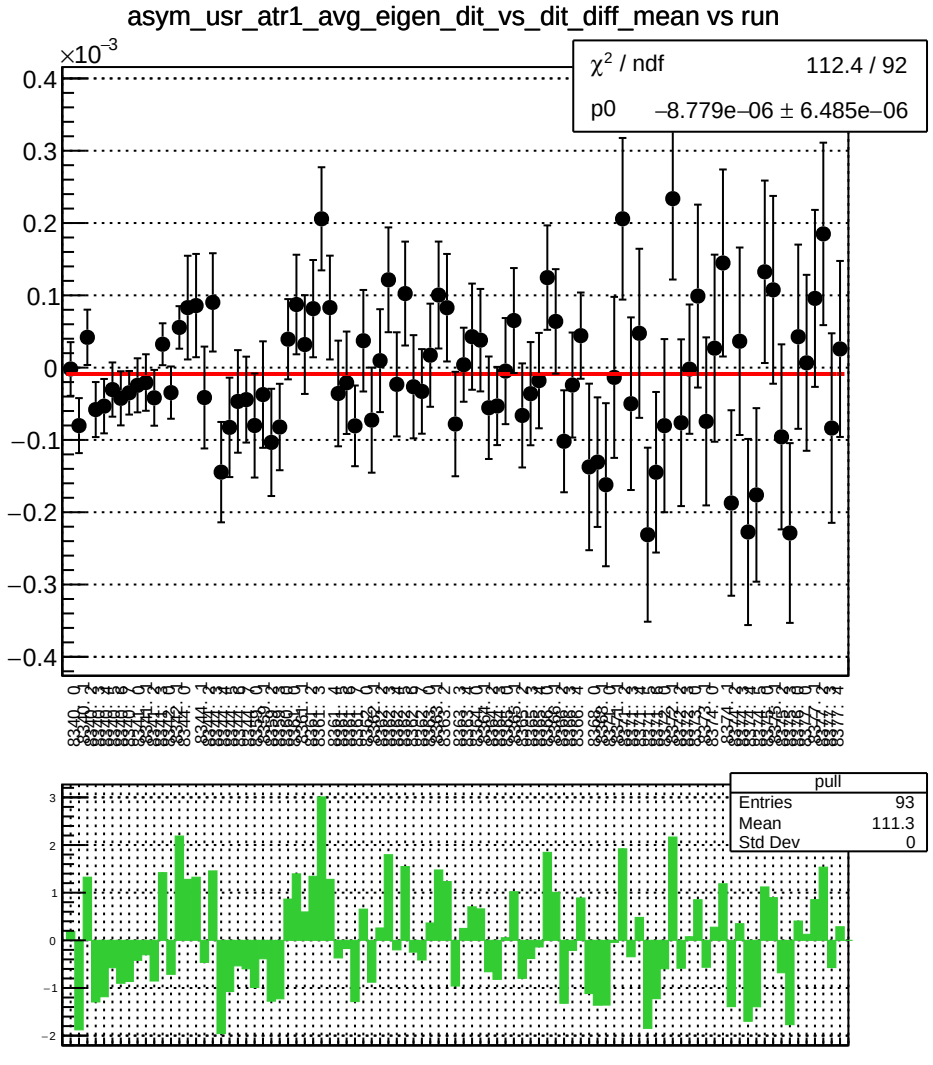

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 92
p0 1.607e−10 ± 1.813e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

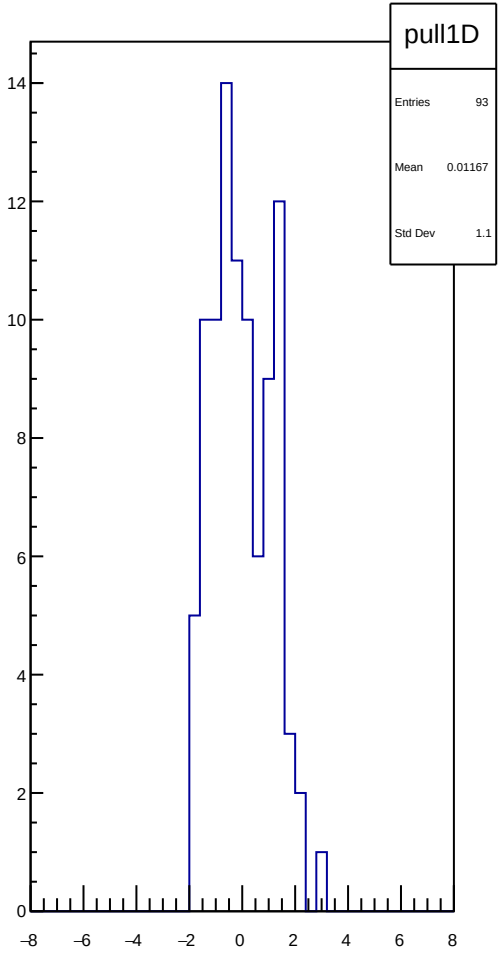

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.03 / 92
p0 −0.04094 ± 0.07216
pull
Entries 93
Mean 192.2
Std Dev 0
pull1D
Entries 93
Mean −0.04311
Std Dev 0.972

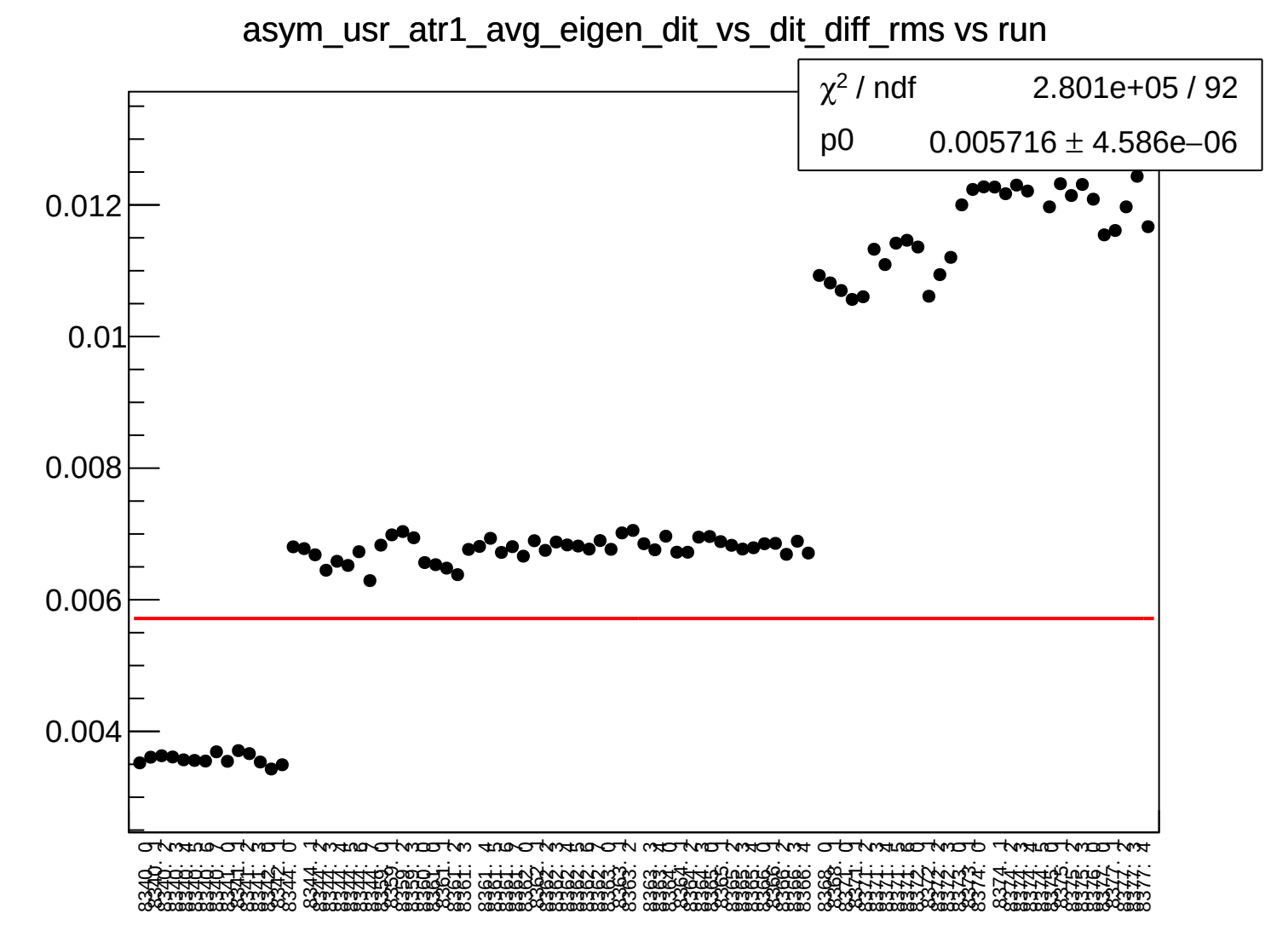

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.035e+05 / 92
p0 65.14 ± 0.05102
220
200
180
160
140
120
100
80
60
40
20

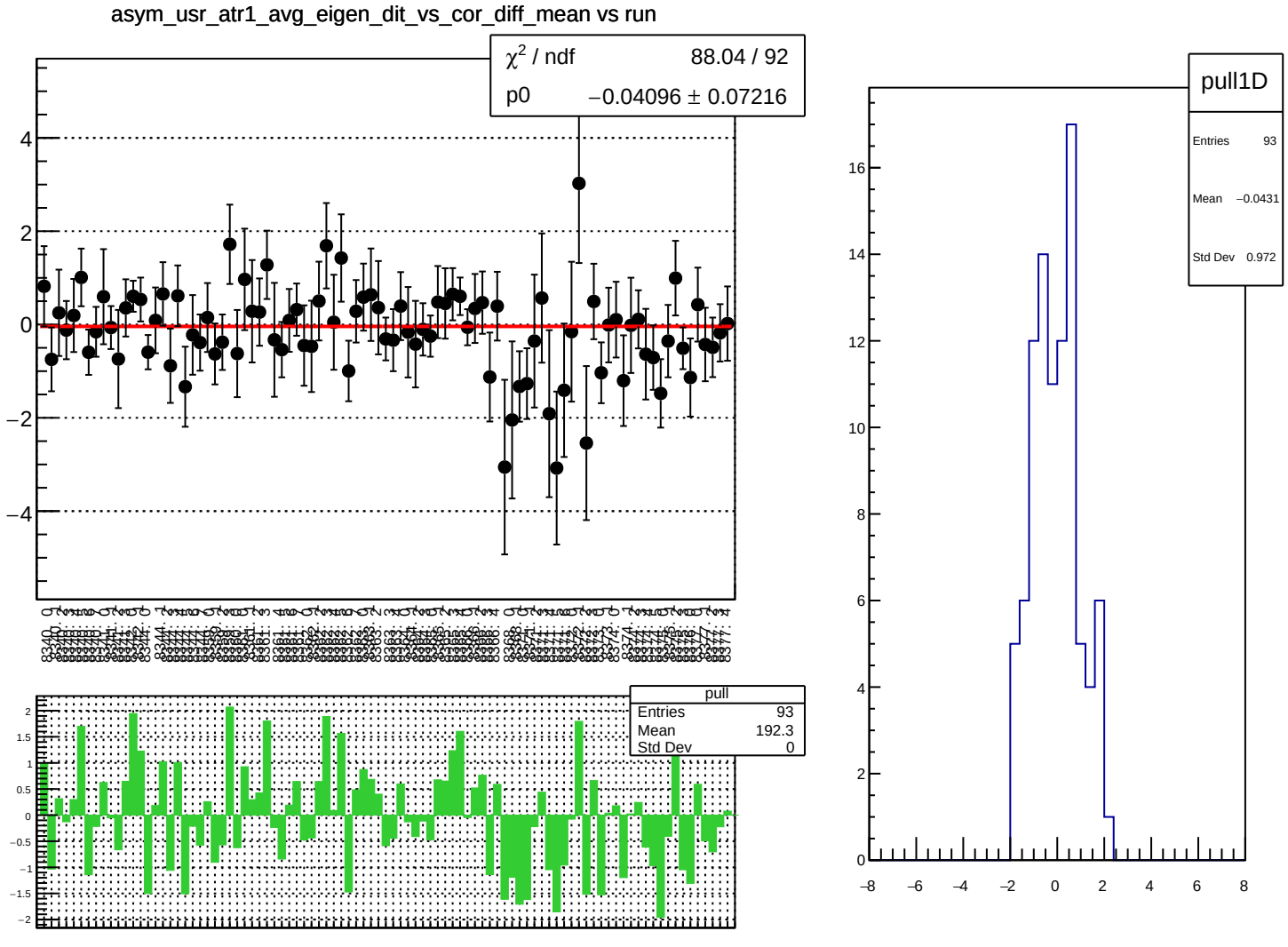

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.03 / 92
p0 −0.04094 ± 0.07216
pull
Entries 93
Mean 192.2
Std Dev 0
pull1D
Entries 93
Mean −0.04311
Std Dev 0.972

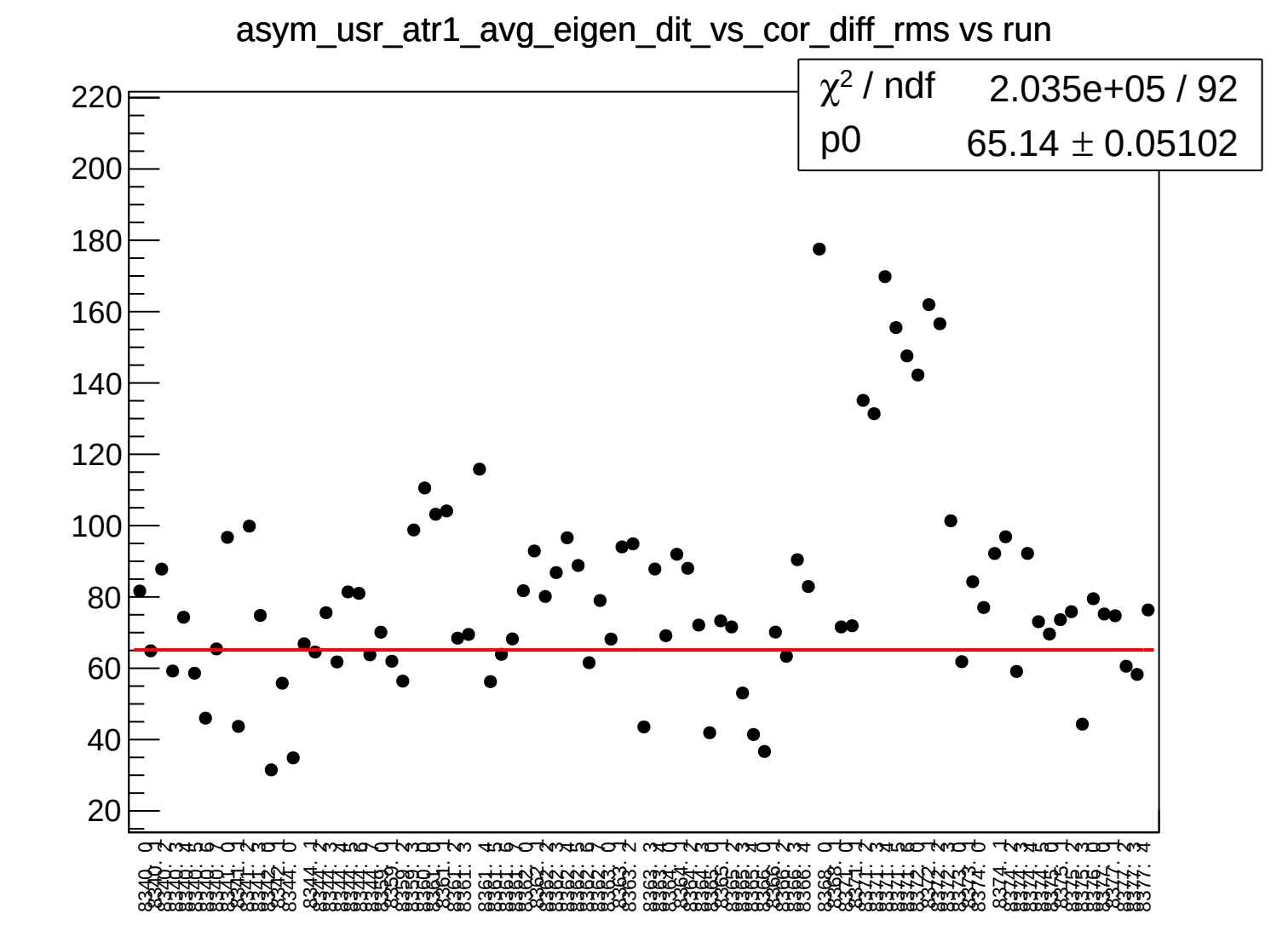

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.035e+05 / 92
p0 65.14 ± 0.05102
220
200
180
160
140
120
100
80
60
40
20

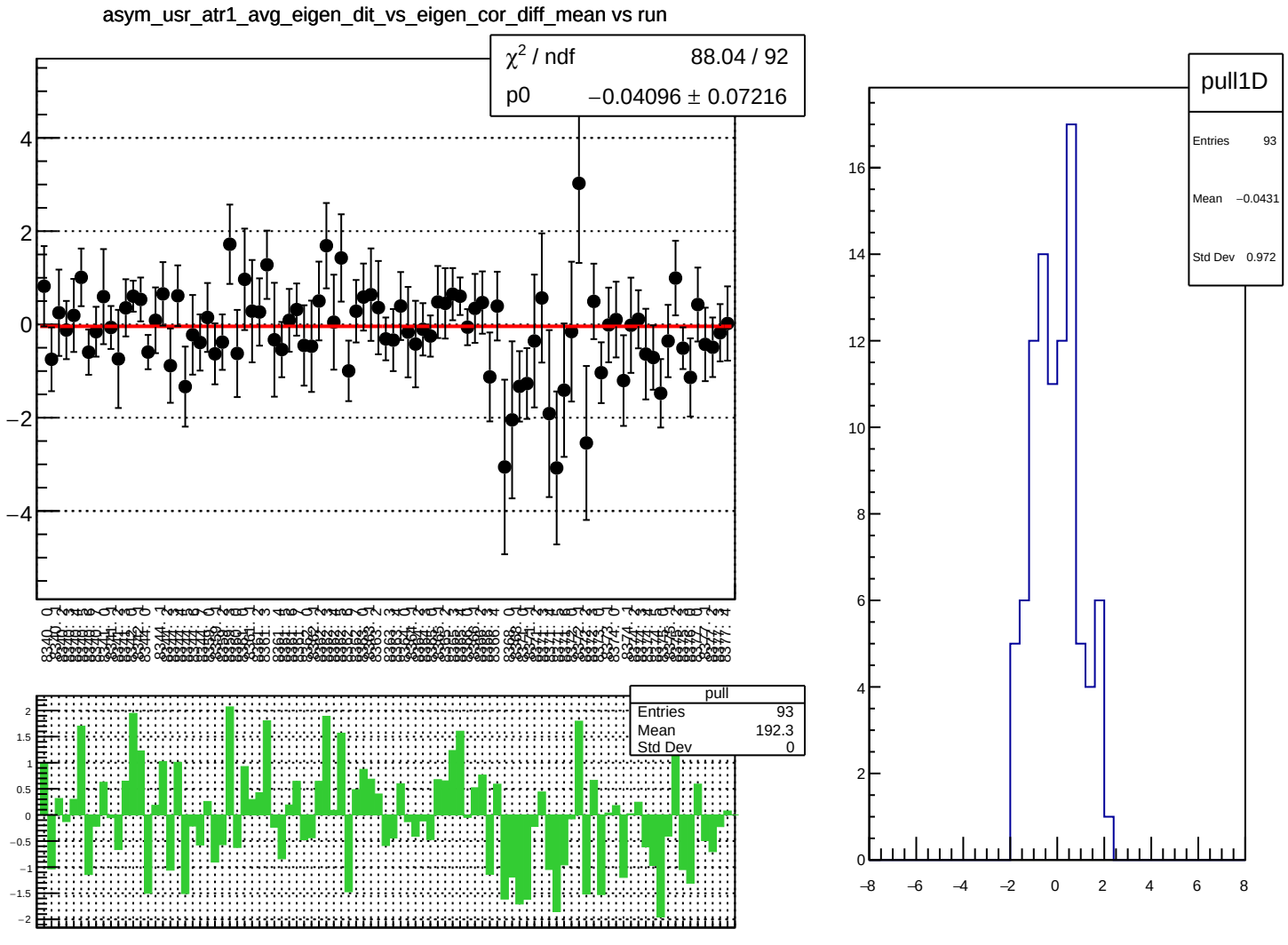

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.4 / 92
p0 −8.779e−06 ± 6.485e−06
pull
Entries 93
Mean 111.3
Std Dev 0

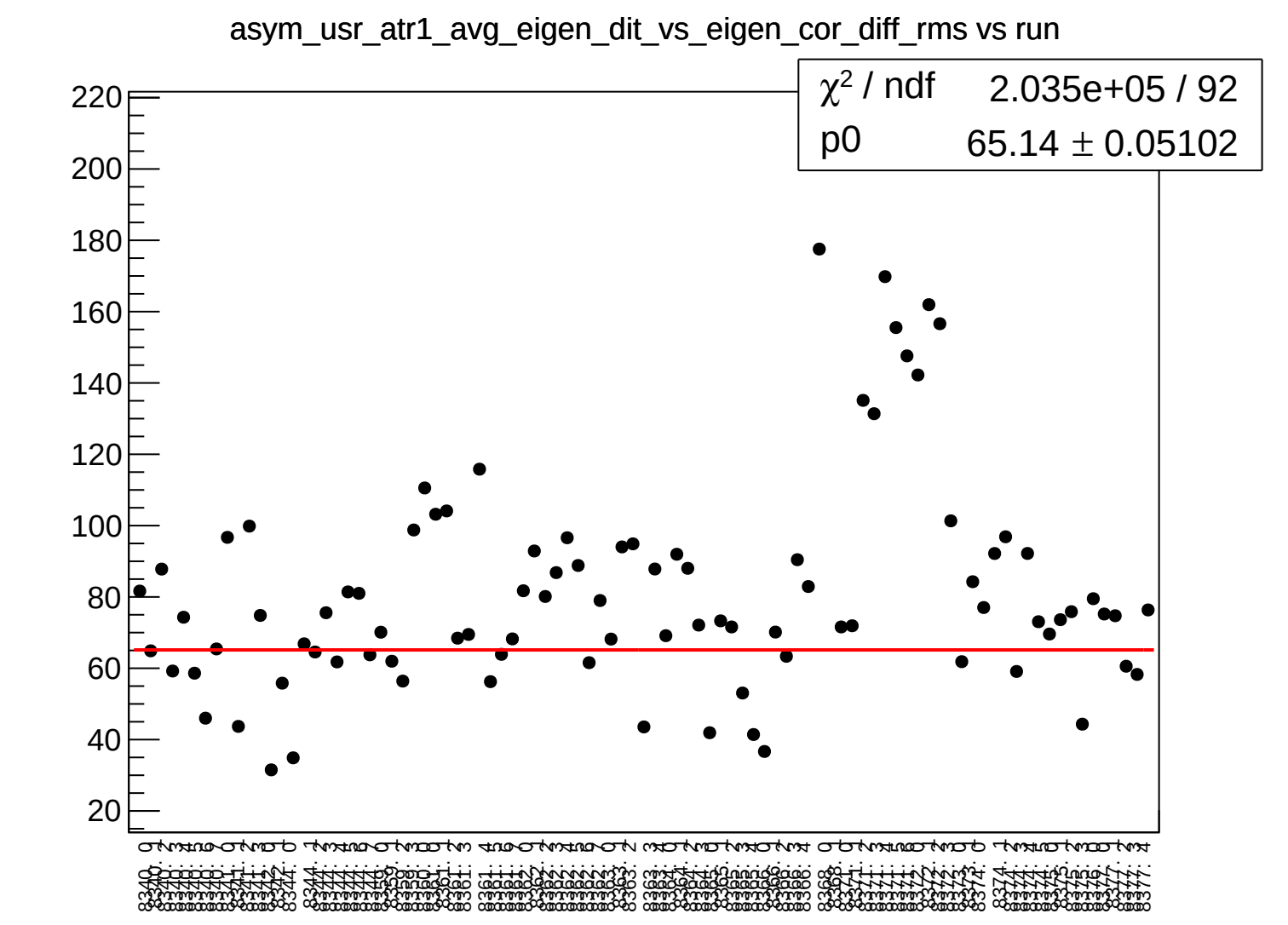

pull1D
Entries 93
Mean 0.01167
Std Dev 1.1

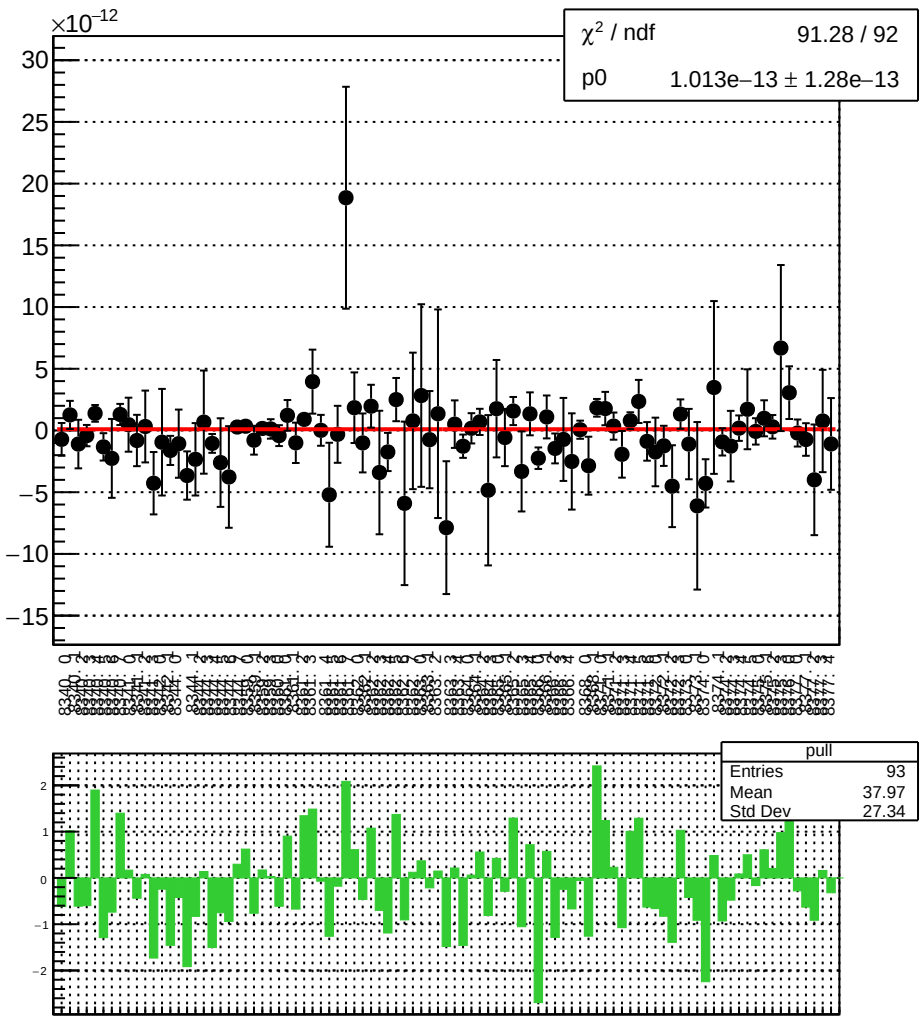

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.801e+05 / 92
p0 0.005716 ± 4.586e−06
0.012
0.01
0.008
0.006
0.004

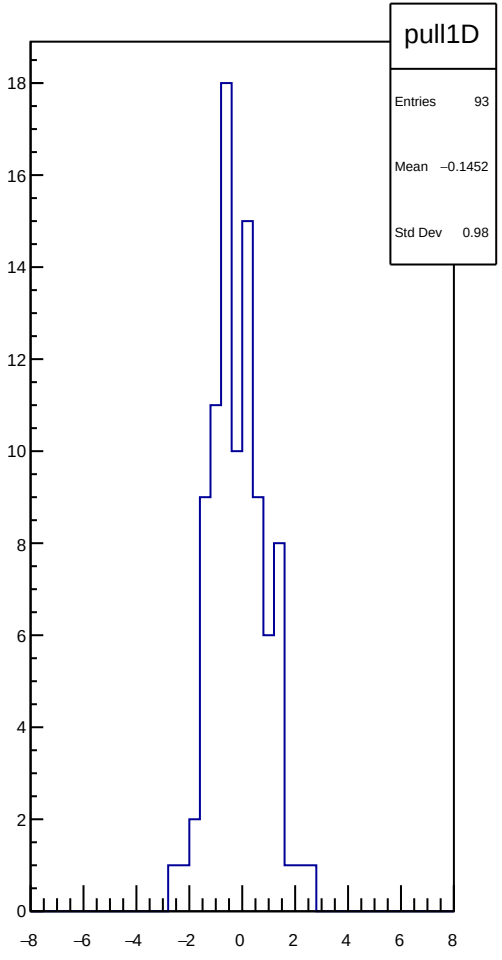

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.04 / 92
p0 −0.04096 ± 0.07216
pull
Entries 93
Mean 192.3
Std Dev 0
pull1D
Entries 93
Mean −0.0431
Std Dev 0.972

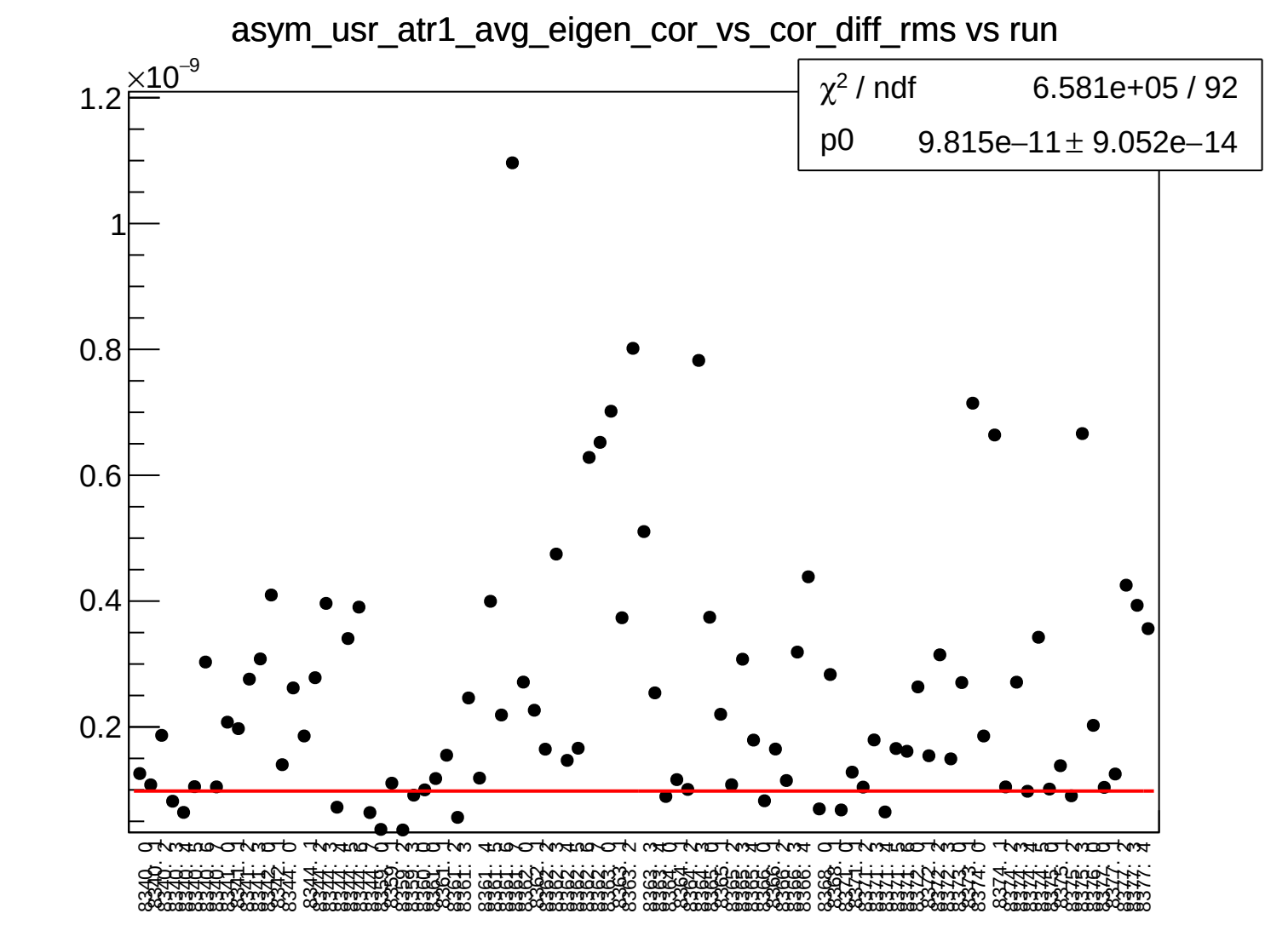

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.035e+05 / 92
p0 65.14 ± 0.05102
220
200
180
160
140
120
100
80
60
40
20

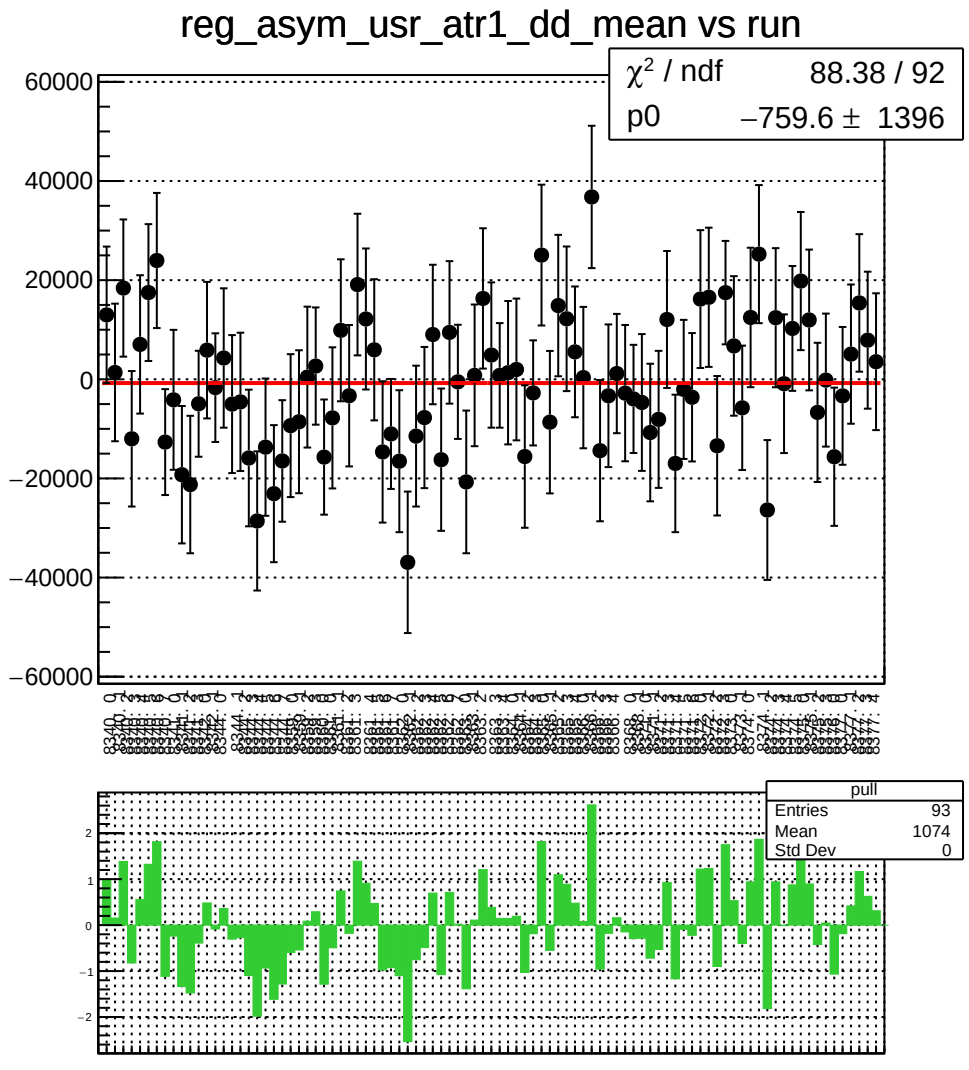

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.04 / 92
p0 −0.04096 ± 0.07216
pull
Entries 93
Mean 192.3
Std Dev 0
pull1D
Entries 93
Mean −0.0431
Std Dev 0.972

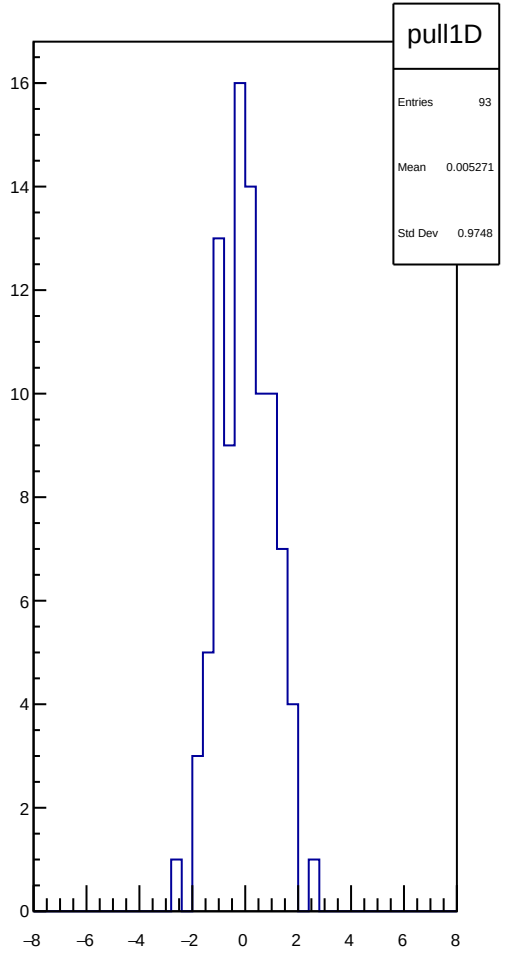

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.035e+05 / 92
p0 65.14 ± 0.05102
220
200
180
160
140
120
100
80
60
40
20

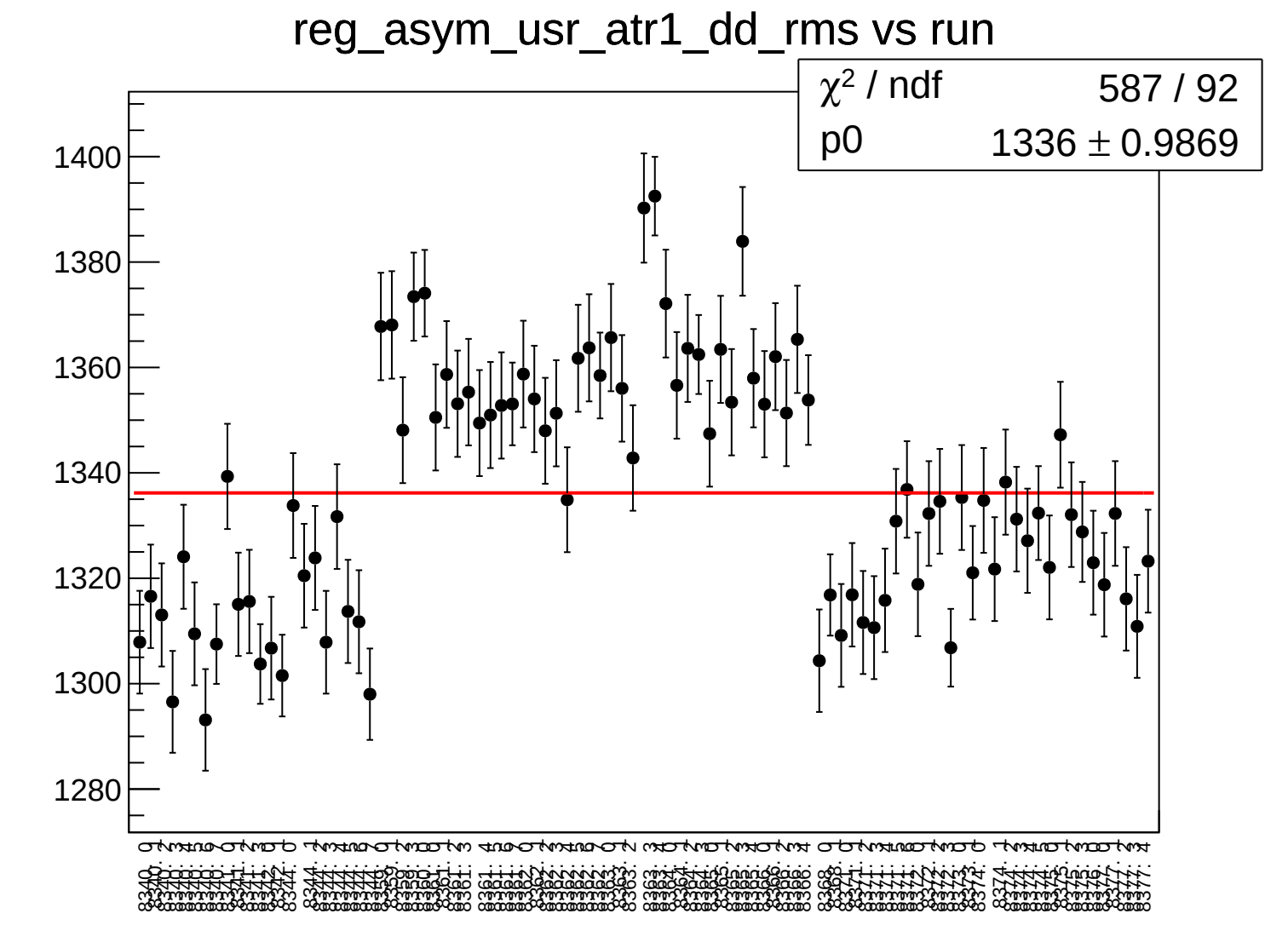

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 91.28 / 92
p0 1.013e−13 ± 1.28e−13
pull
Entries 93
Mean 37.97
Std Dev 27.34

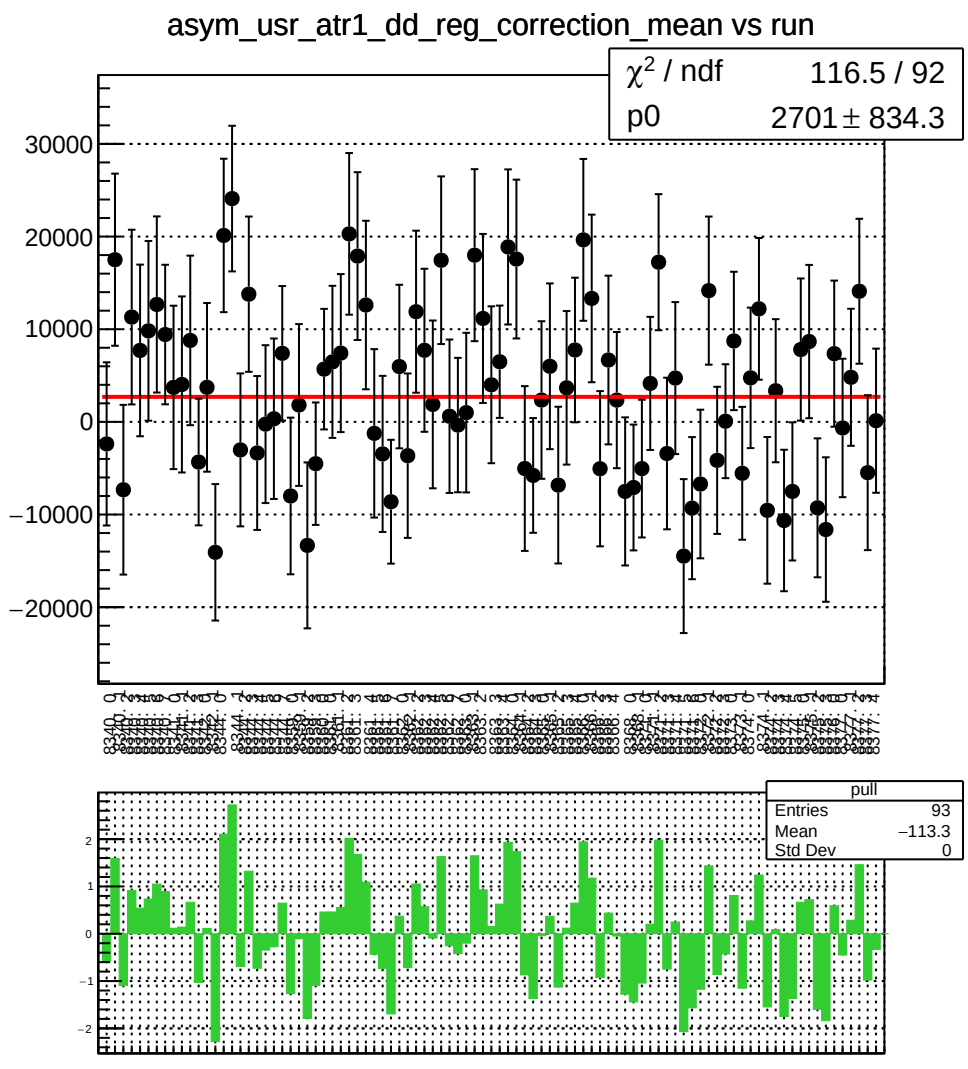

pull1D
Entries 93
Mean −0.1452
Std Dev 0.98

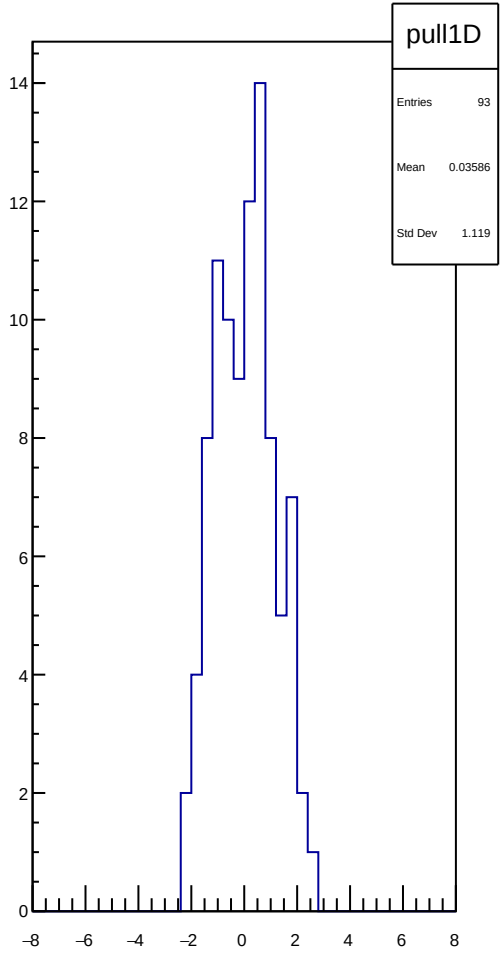

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.581e+05 / 92
p0 9.815e−11 ± 9.052e−14


reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.38 / 92
p0 −759.6 ± 1396
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1074
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.005271
Std Dev 0.9748
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 587 / 92
p0 1336 ± 0.9869
1400
1380
1360
1340
1320
1300
1280


asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 116.5 / 92
p0 2701 ± 834.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −113.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.03586
Std Dev 1.119
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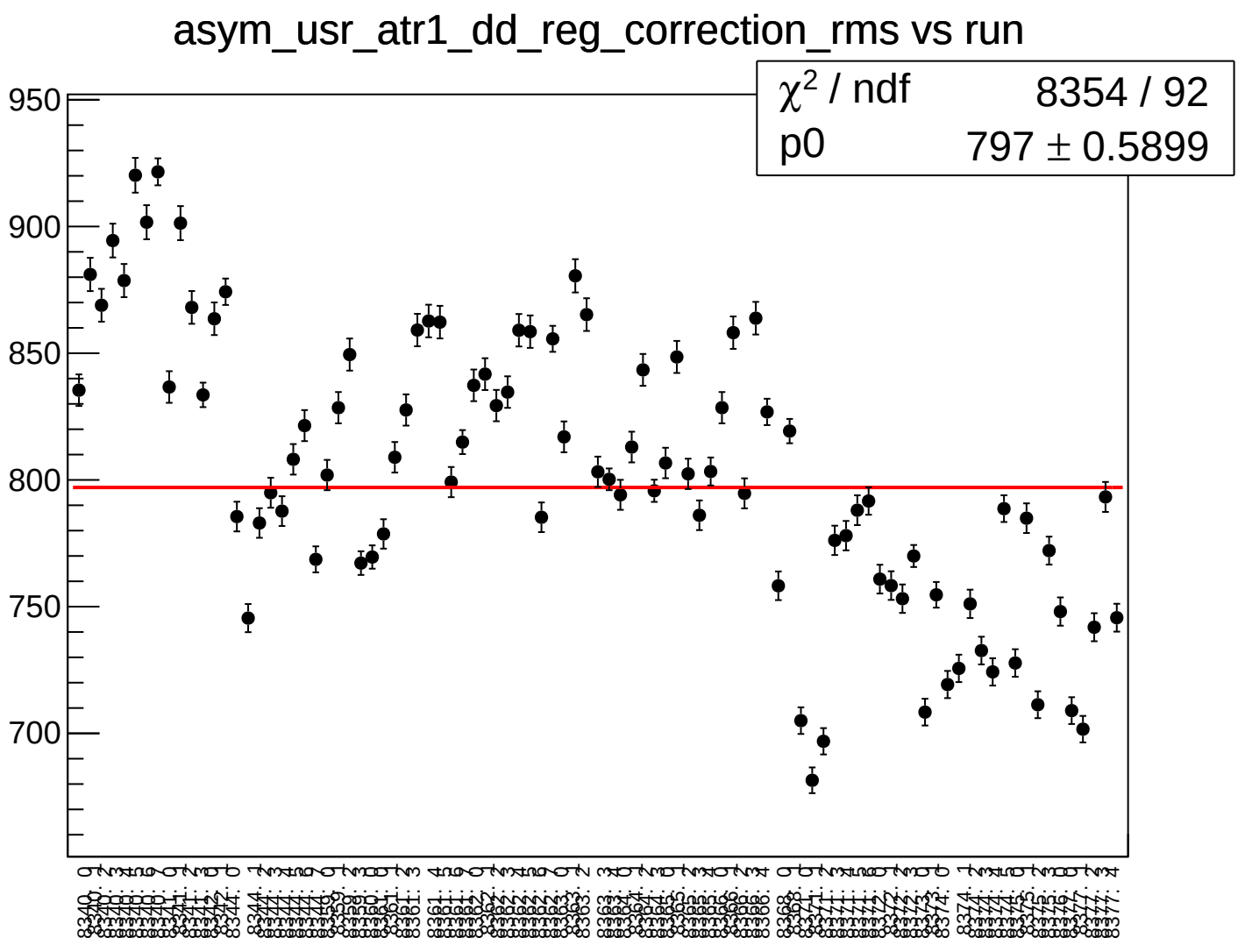
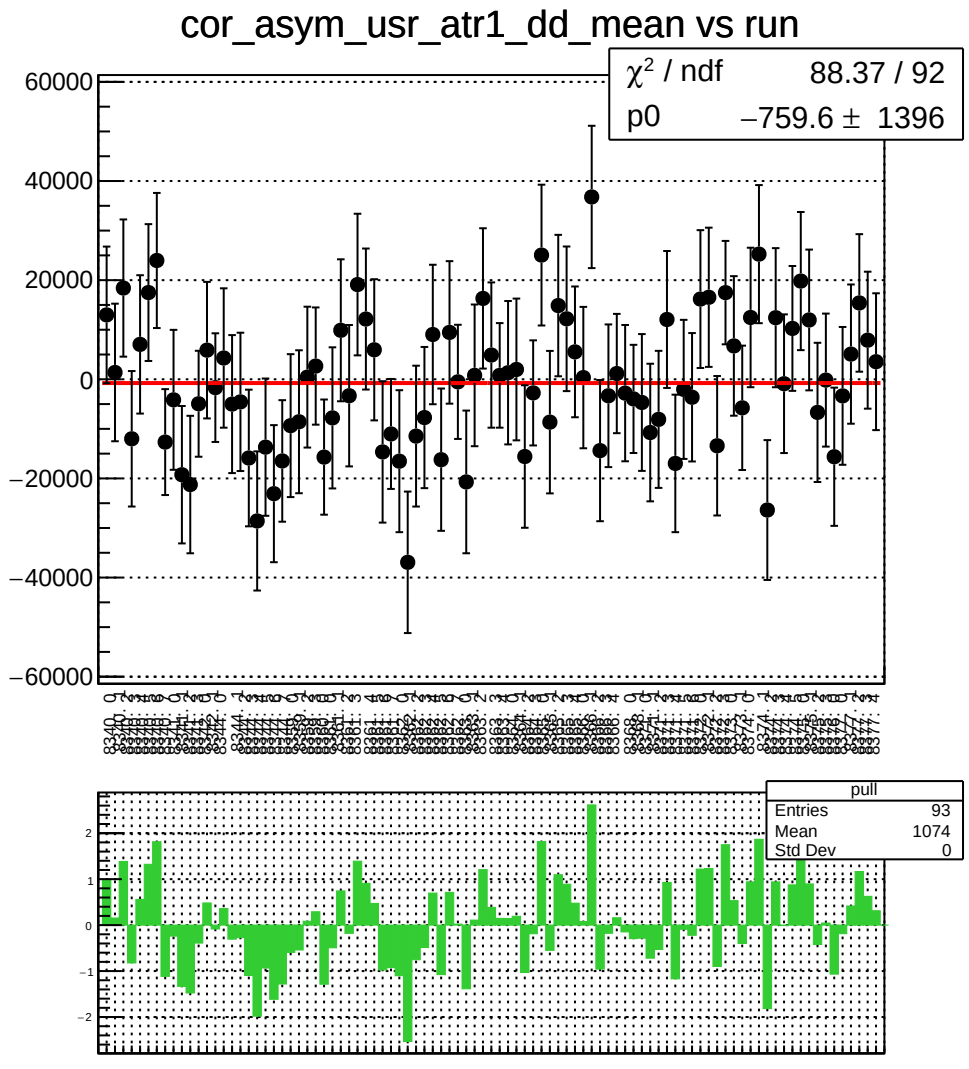
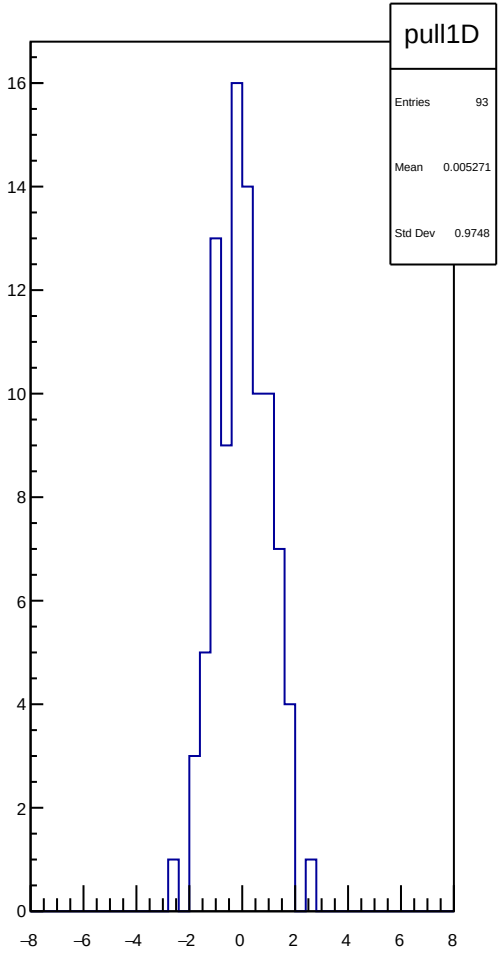
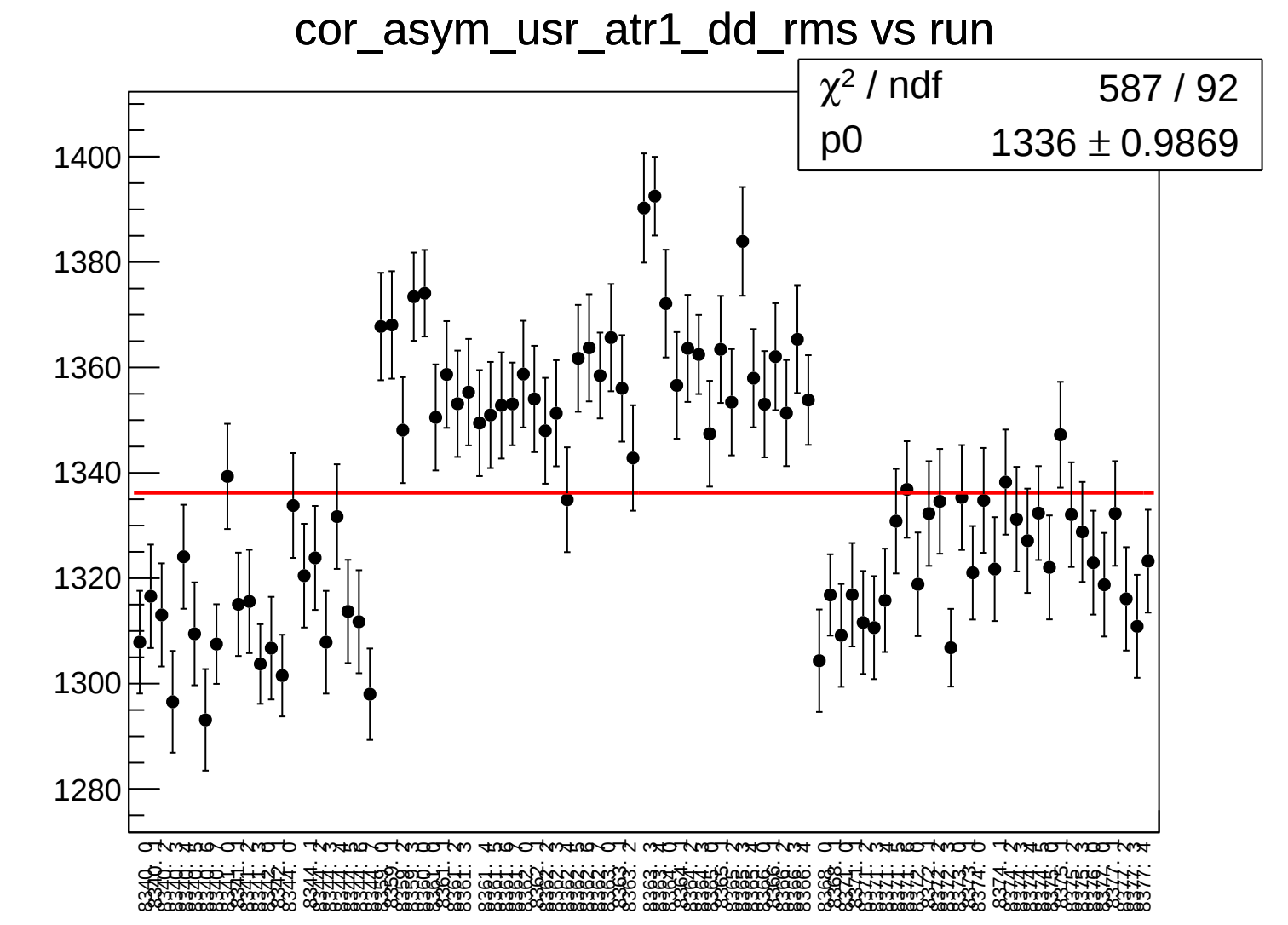
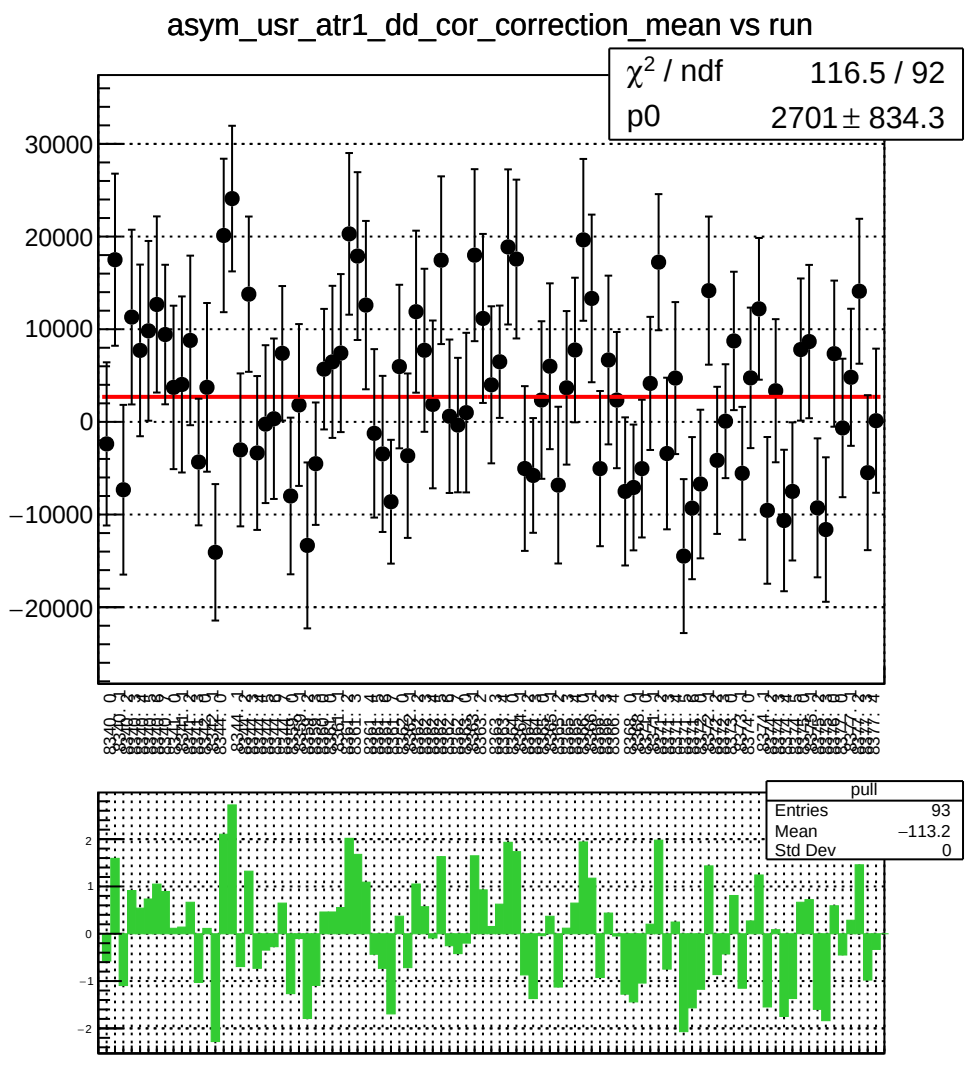
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

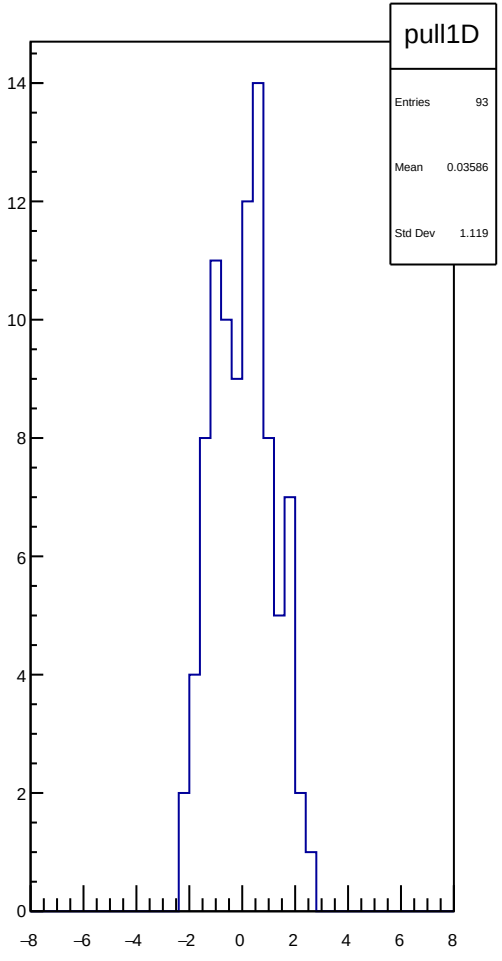

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 8354 / 92
p0 797 ± 0.5899
950
900
850
800
750
700


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.37 / 92
p0 −759.6 ± 1396
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1074
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.005271
Std Dev 0.9748
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 587 / 92
p0 1336 ± 0.9869
1400
1380
1360
1340
1320
1300
1280


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 116.5 / 92
p0 2701 ± 834.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −113.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.03586
Std Dev 1.119
14
12
10
8
6
4
2
0
−8
−6
−4
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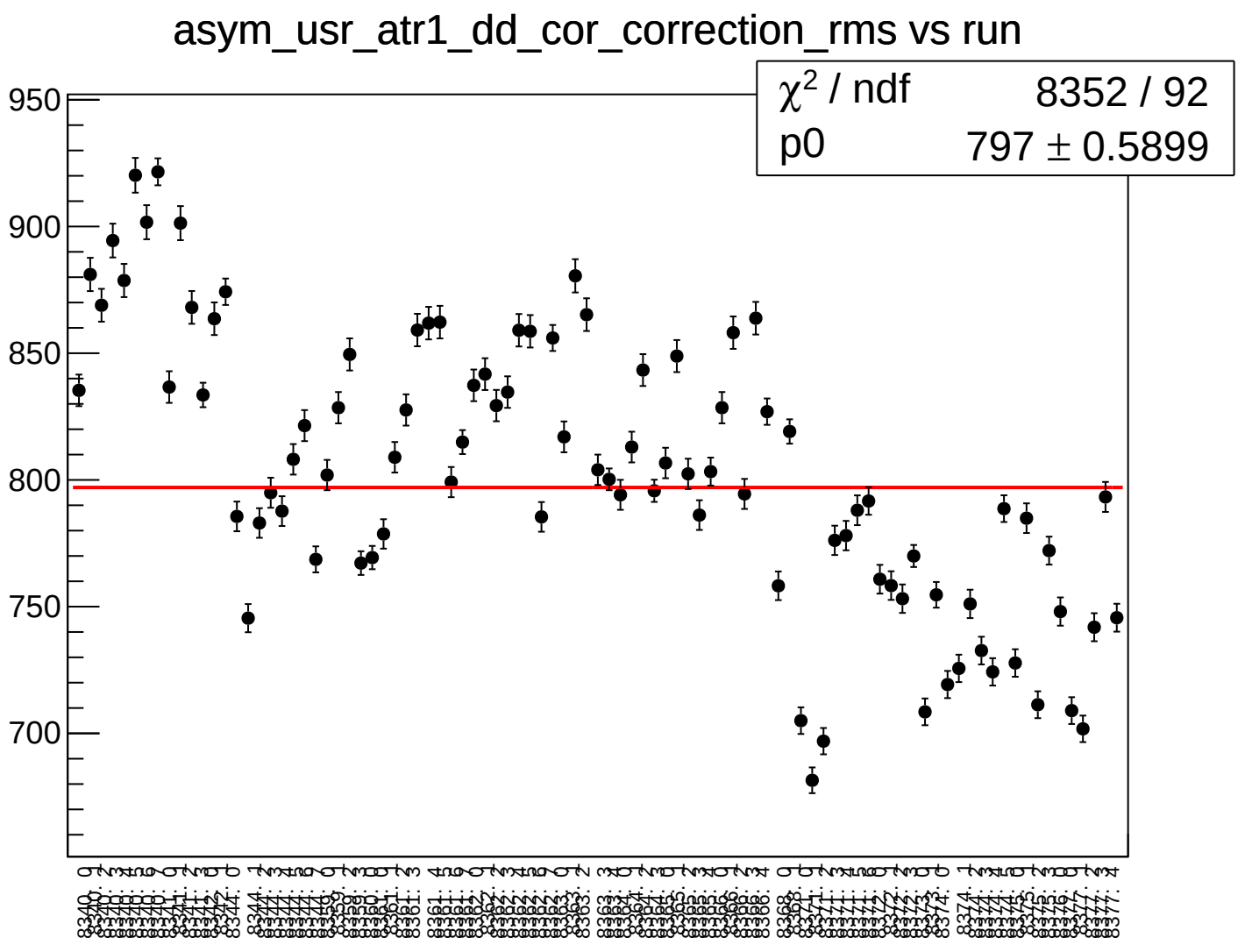
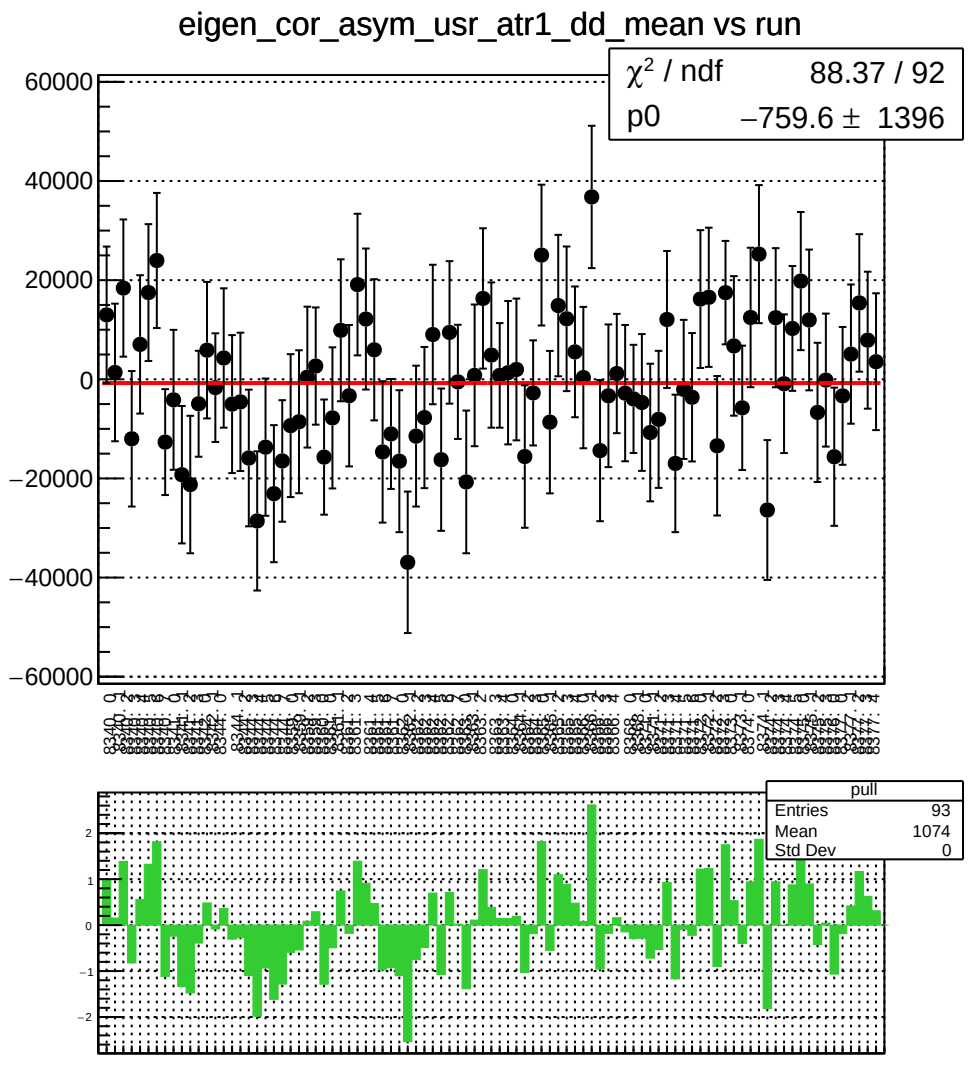
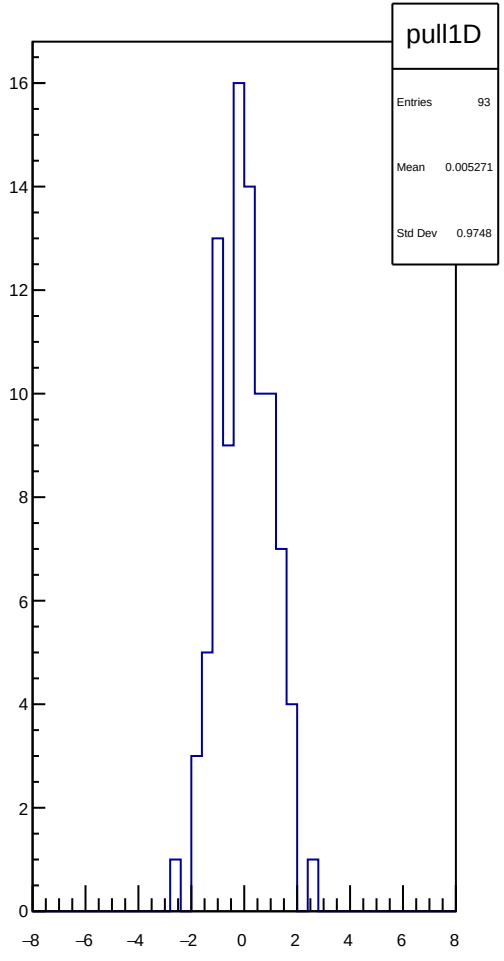
2
4
6
8


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 8352 / 92
p0 797 ± 0.5899
950
900
850
800
750
700


eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 88.37 / 92
p0 −759.6 ± 1396
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1074
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.005271
Std Dev 0.9748
16
14
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10
8
6
4
2
0
−8
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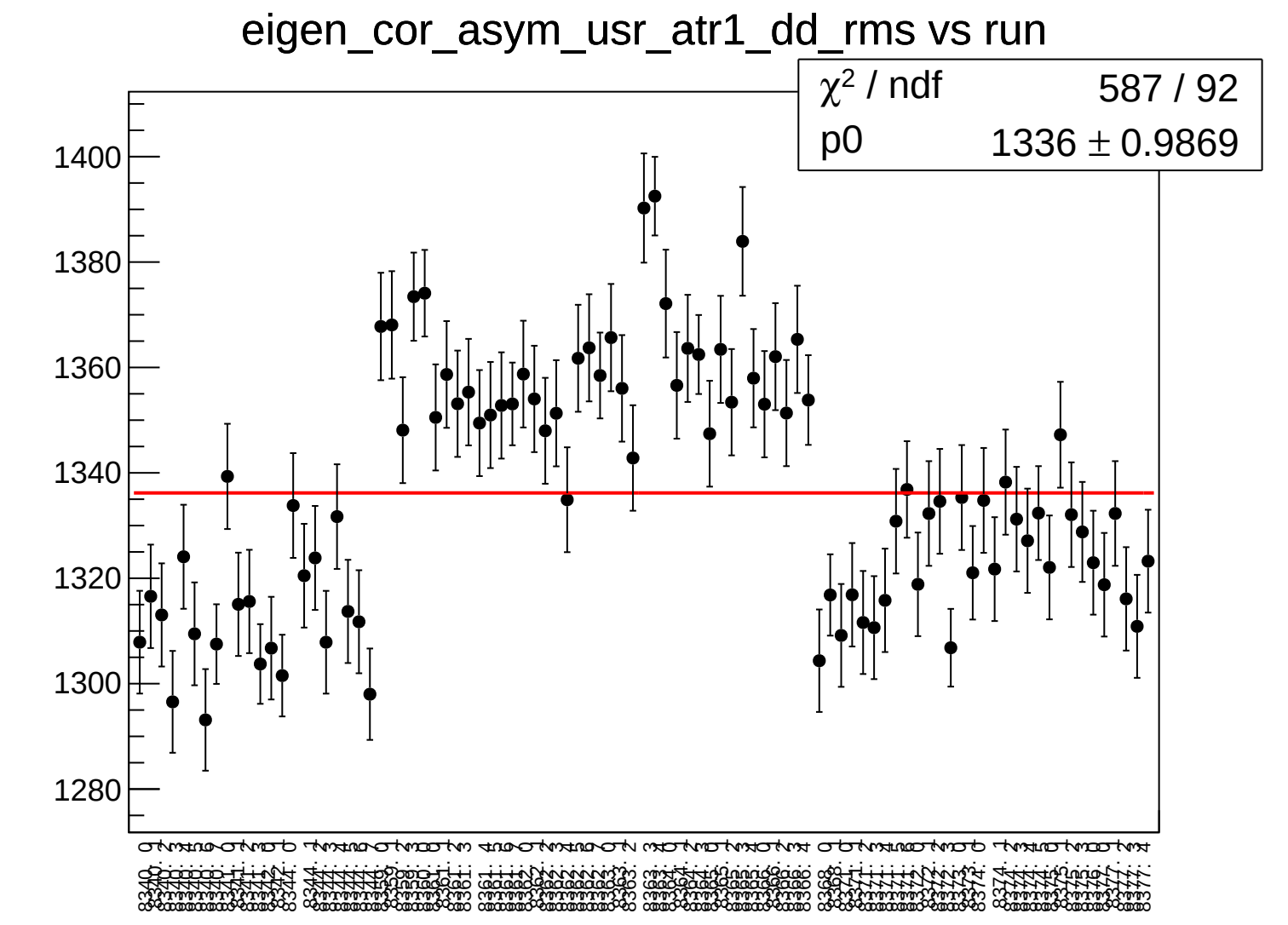
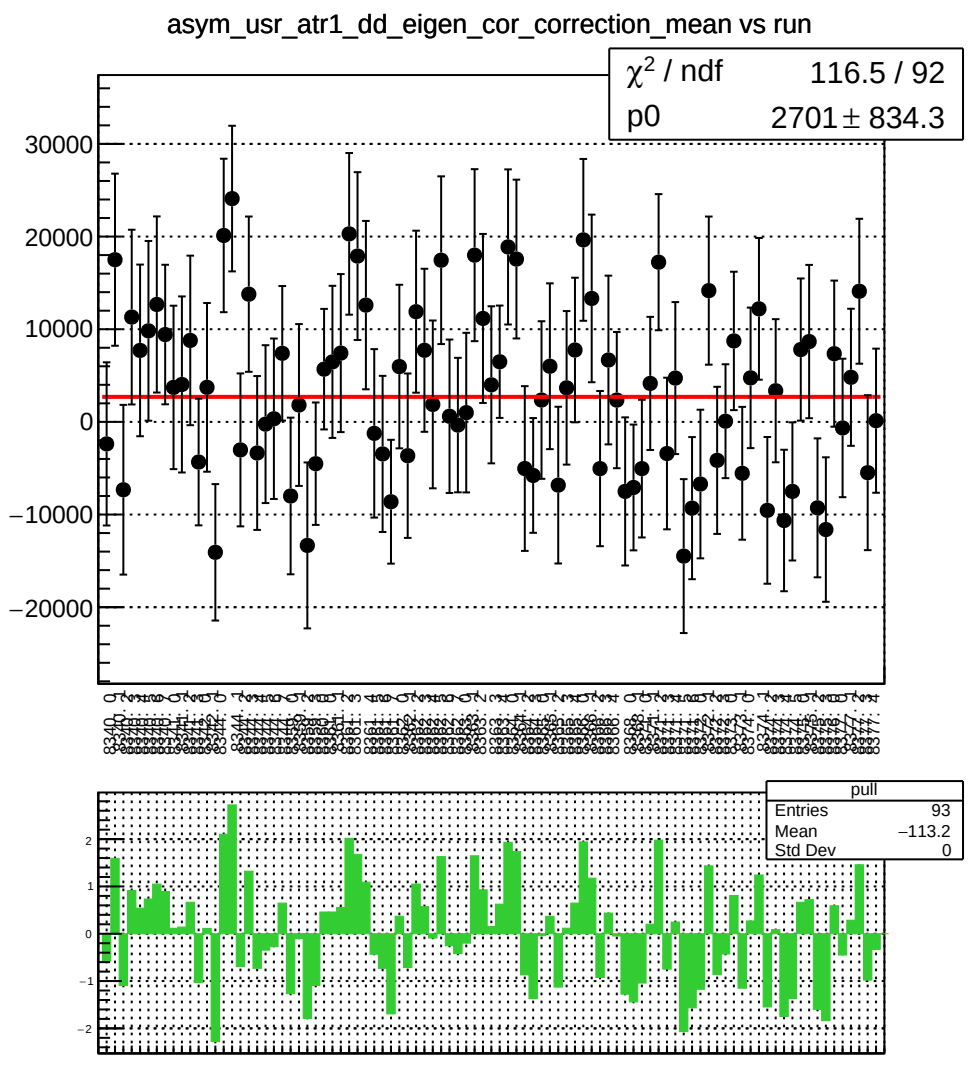
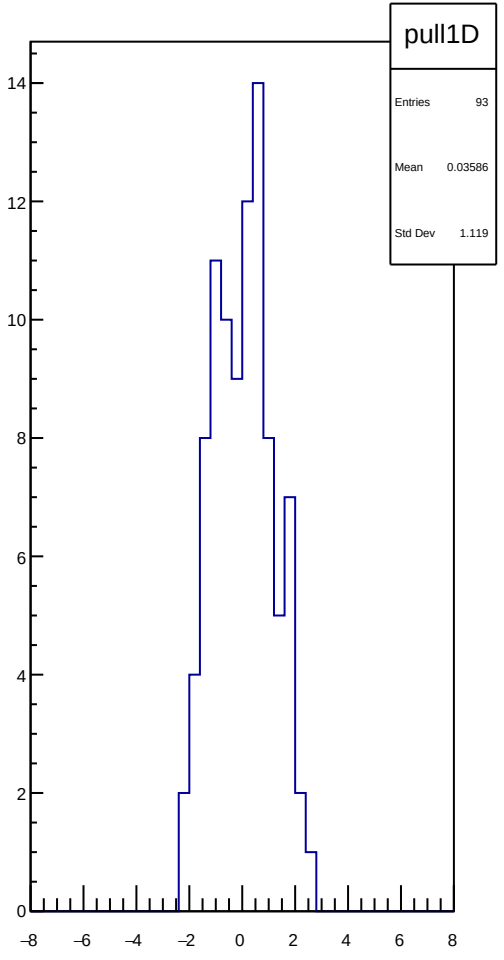
2
4
6
8


eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 587 / 92
p0 1336 ± 0.9869
1400
1380
1360
1340
1320
1300
1280


asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.5 / 92
p0 2701 ± 834.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −113.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.03586
Std Dev 1.119
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12
10
8
6
4
2
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−8
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−4
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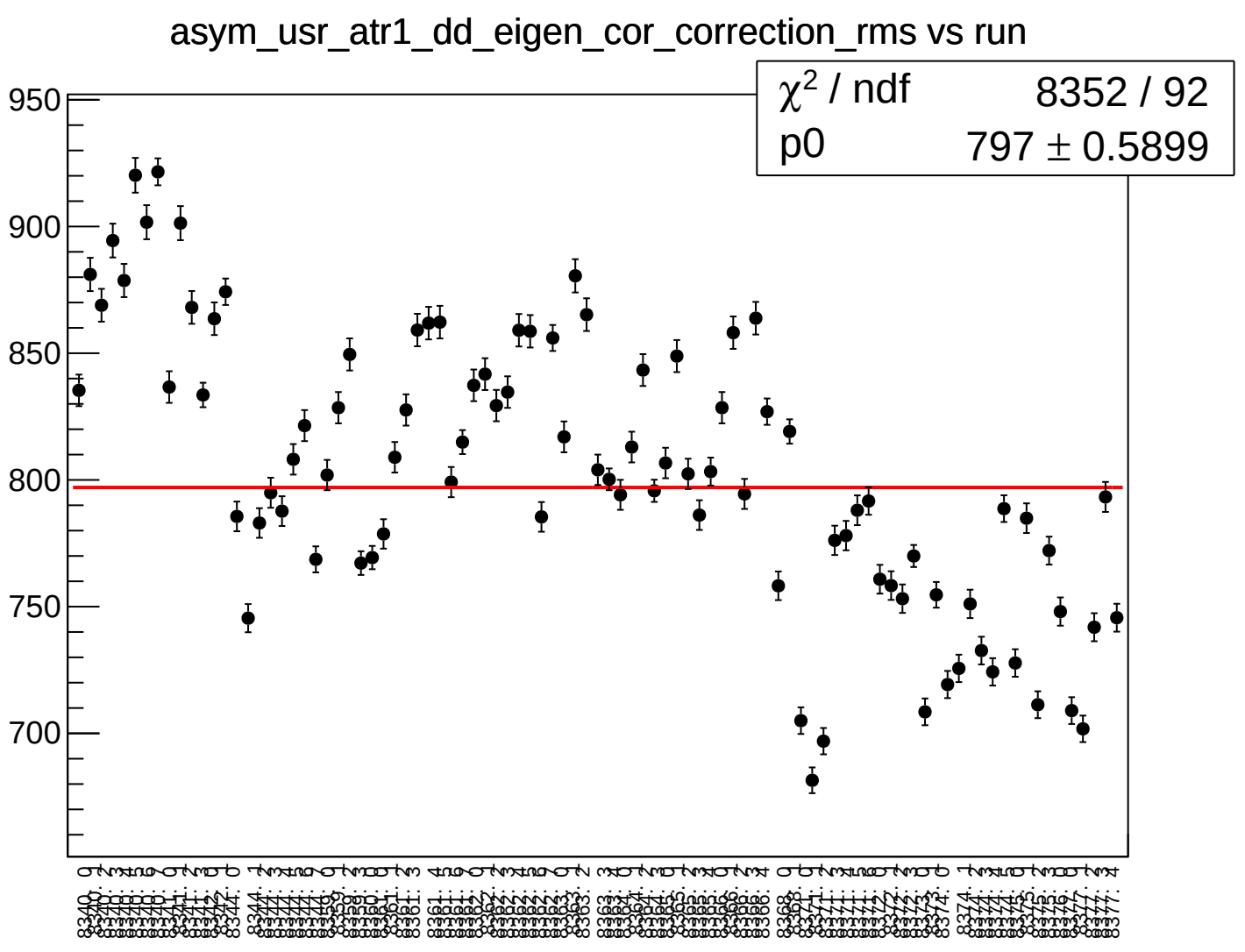
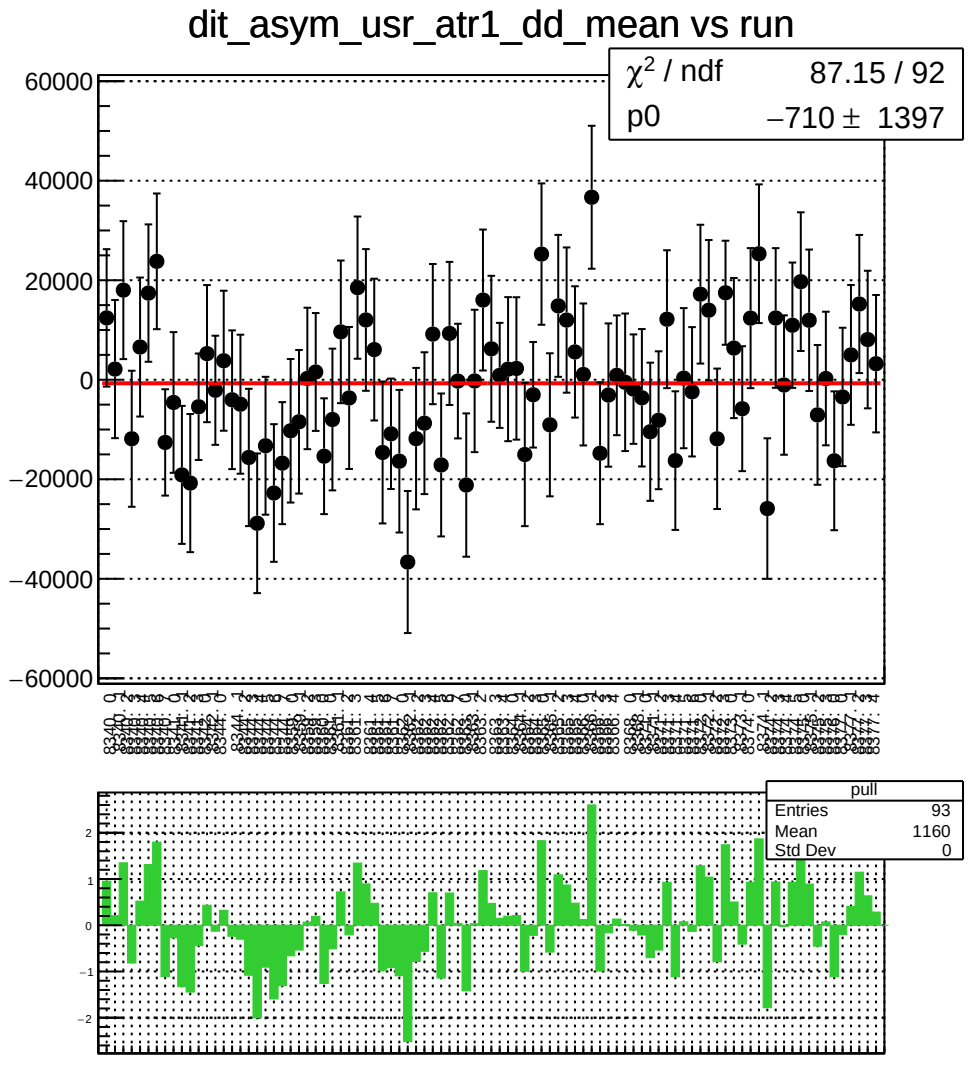
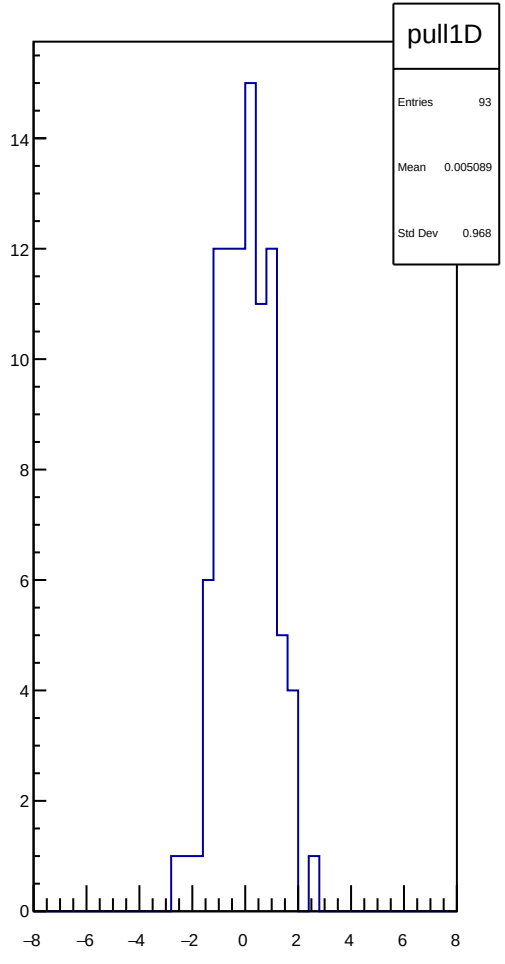
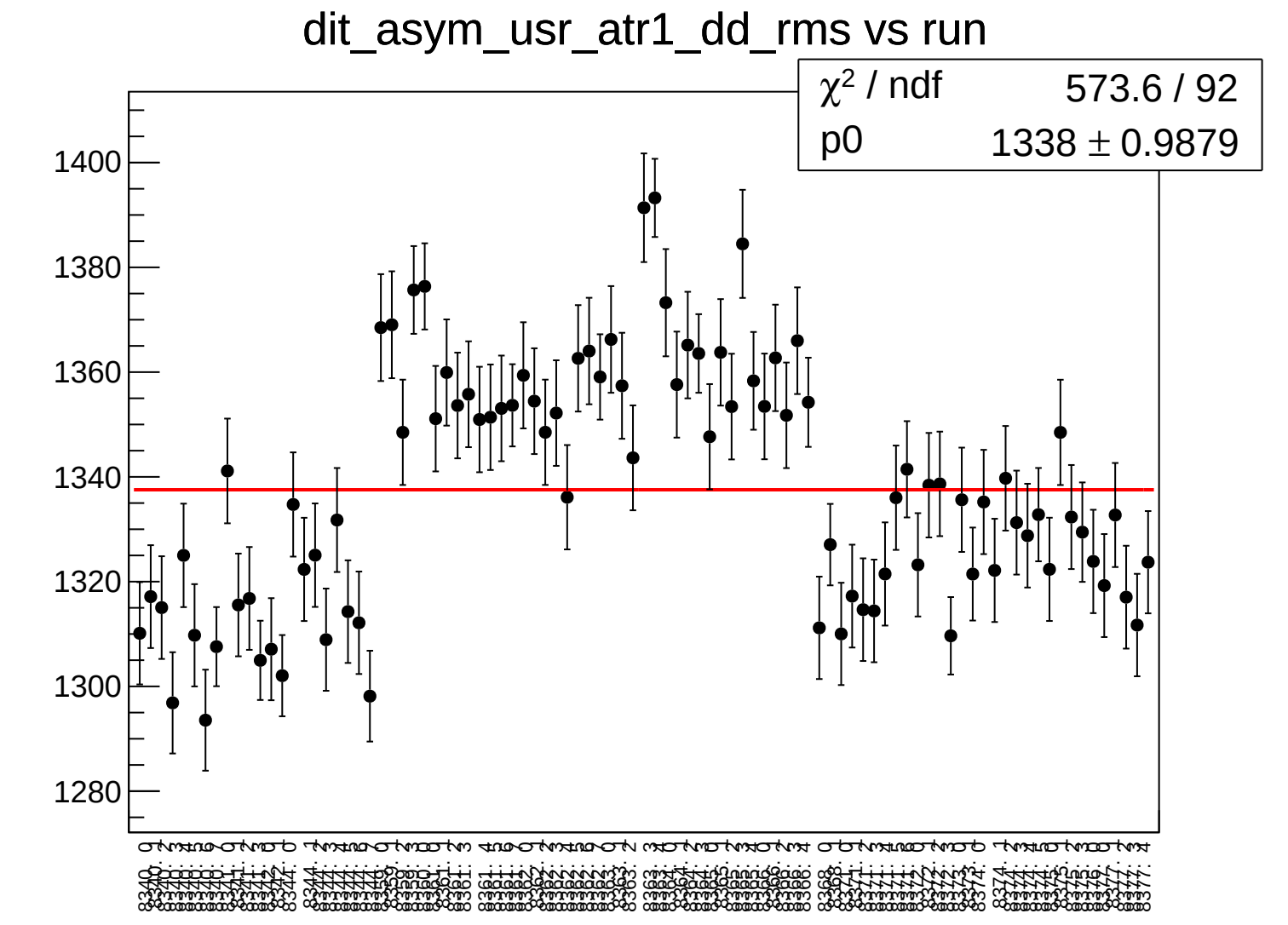
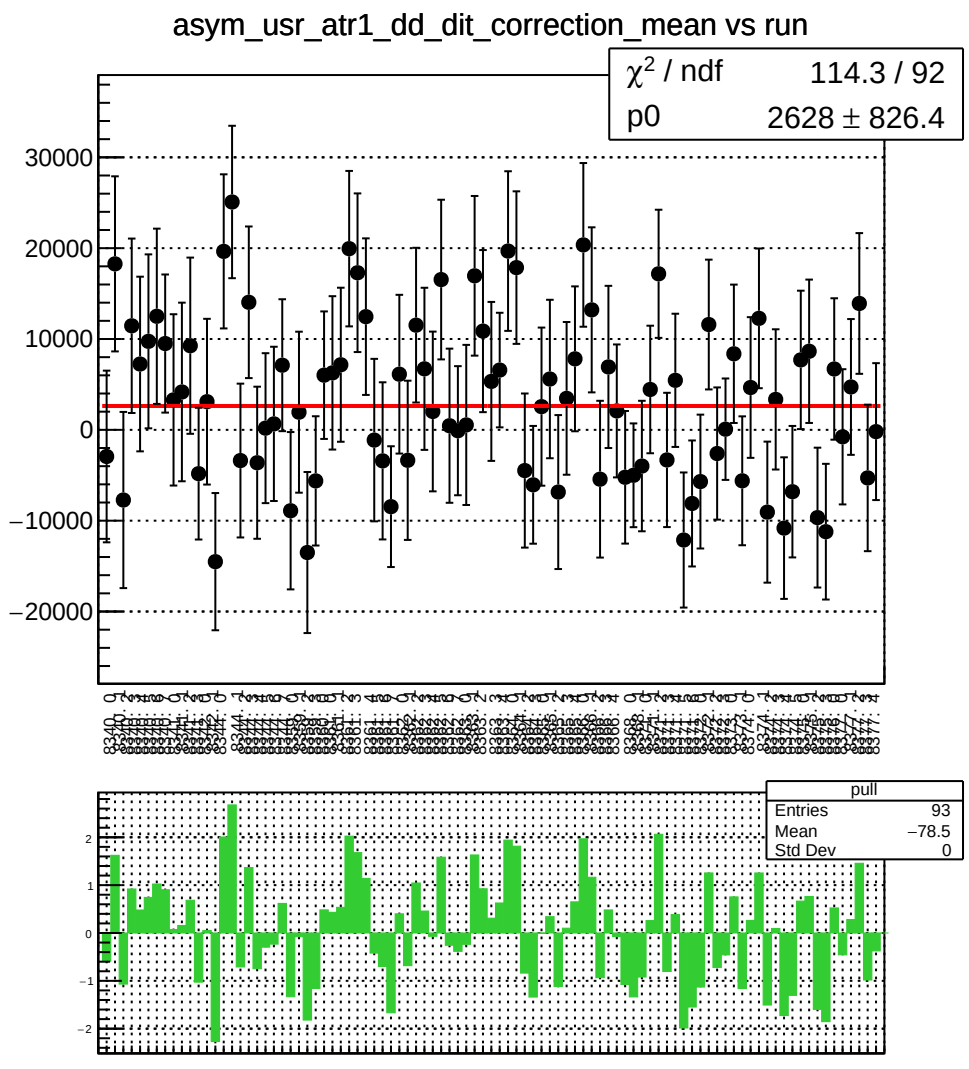
6
8

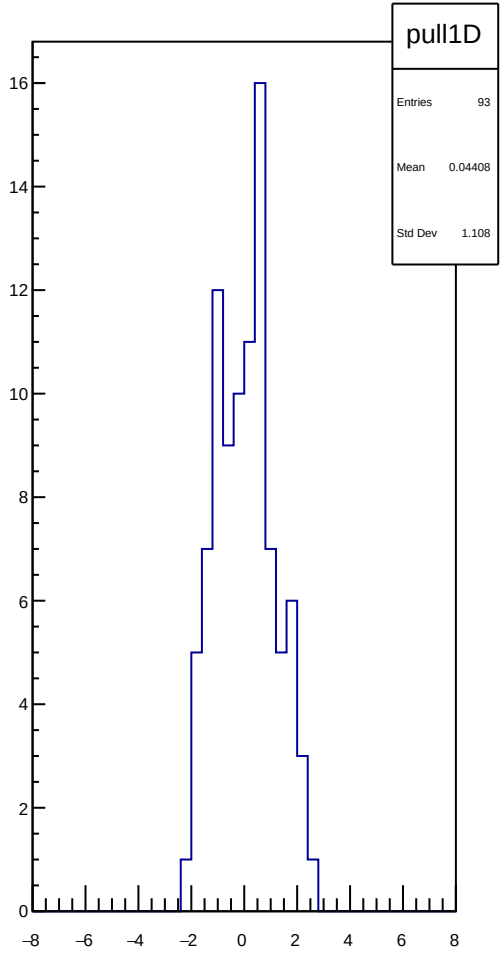

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8352 / 92
p0 797 ± 0.5899
950
900
850
800
750
700

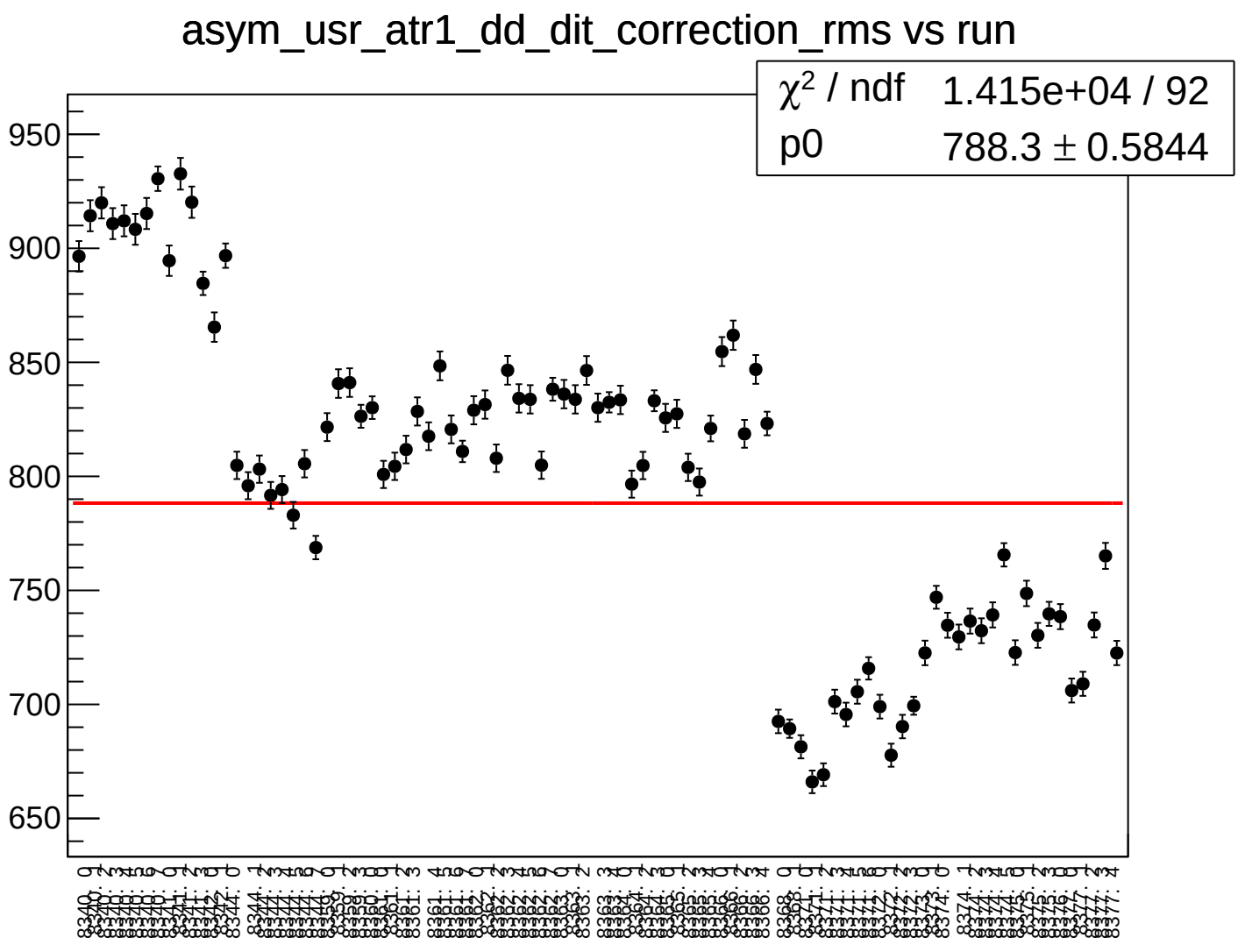

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 87.15 / 92
p0 −710 ± 1397
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 1160
Std Dev 0
2
1
0
−1
−2

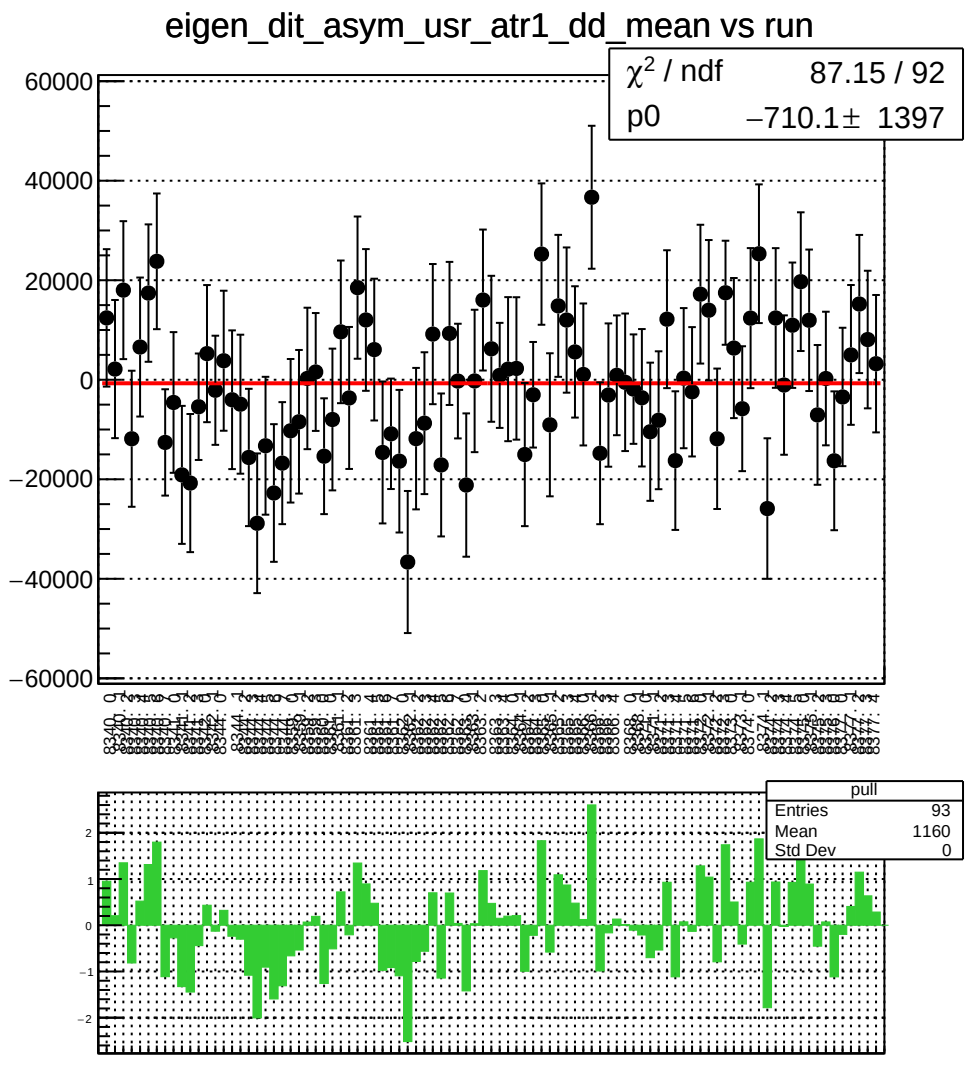

pull1D
Entries 93
Mean 0.005089
Std Dev 0.968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

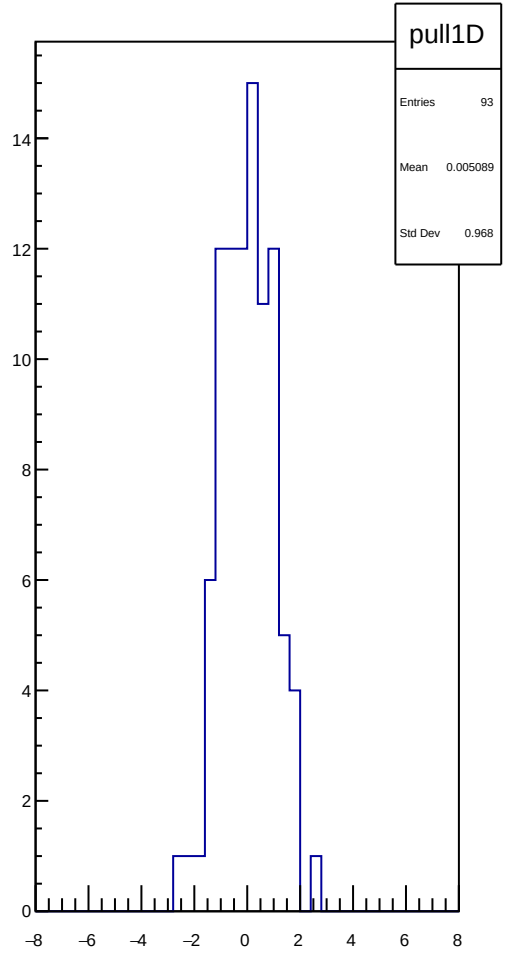

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 573.6 / 92
p0 1338 ± 0.9879
1400
1380
1360
1340
1320
1300
1280

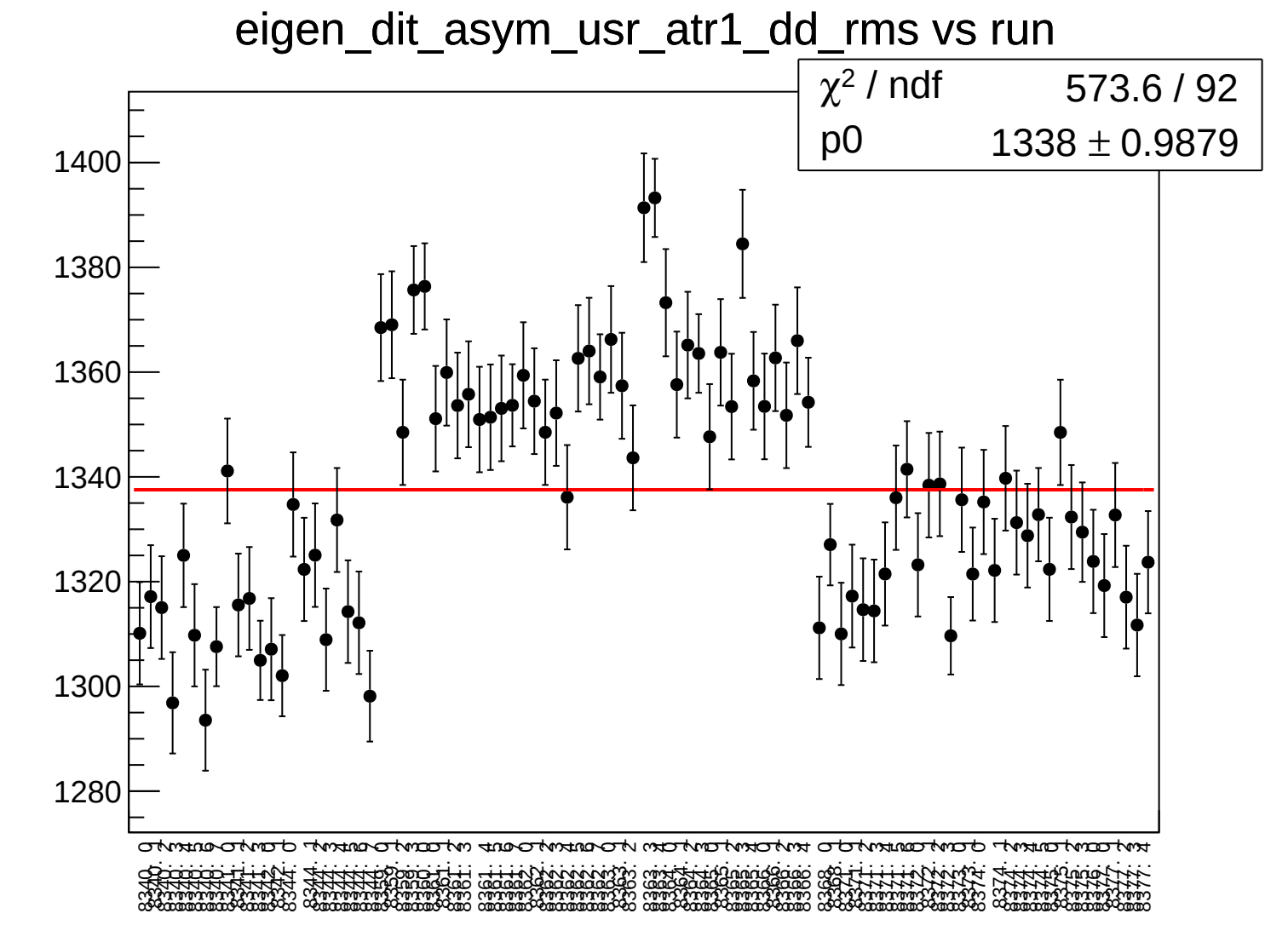

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 114.3 / 92
p0 2628 ± 826.4
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −78.5
Std Dev 0
2
1
0
−1
−2

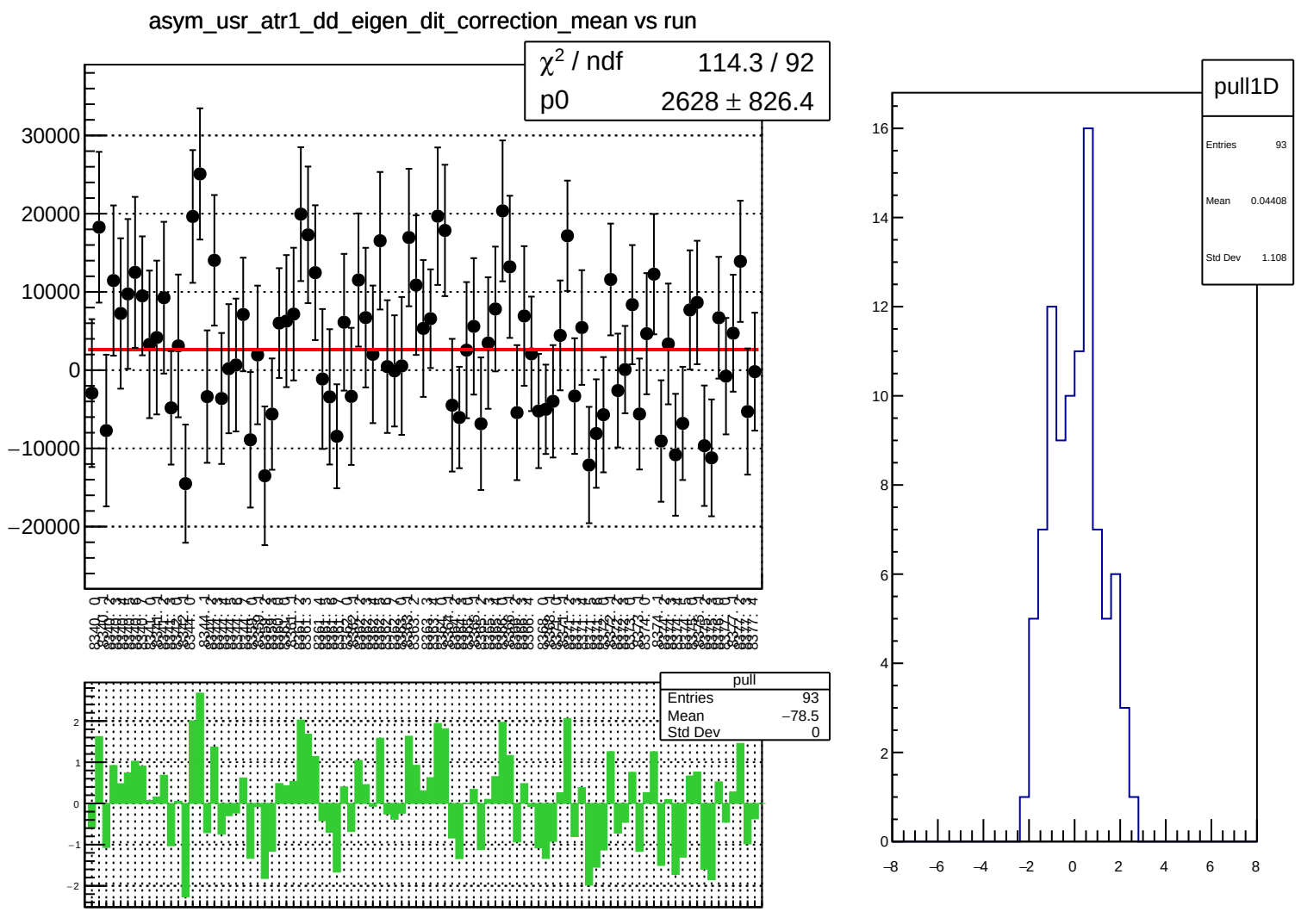

pull1D
Entries 93
Mean 0.04408
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

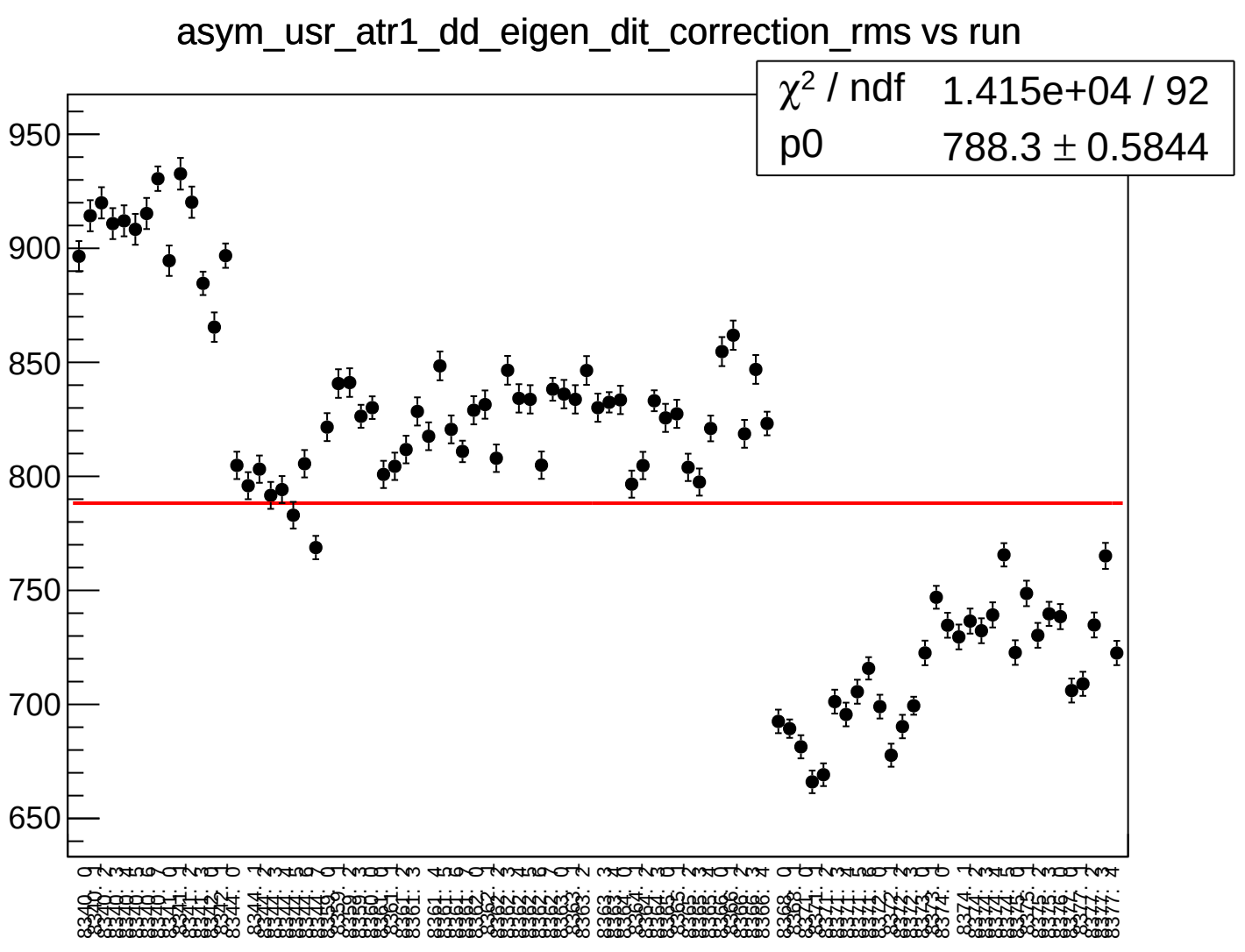

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 1.415e+04 / 92
p0 788.3 ± 0.5844
950
900
850
800
750
700
650

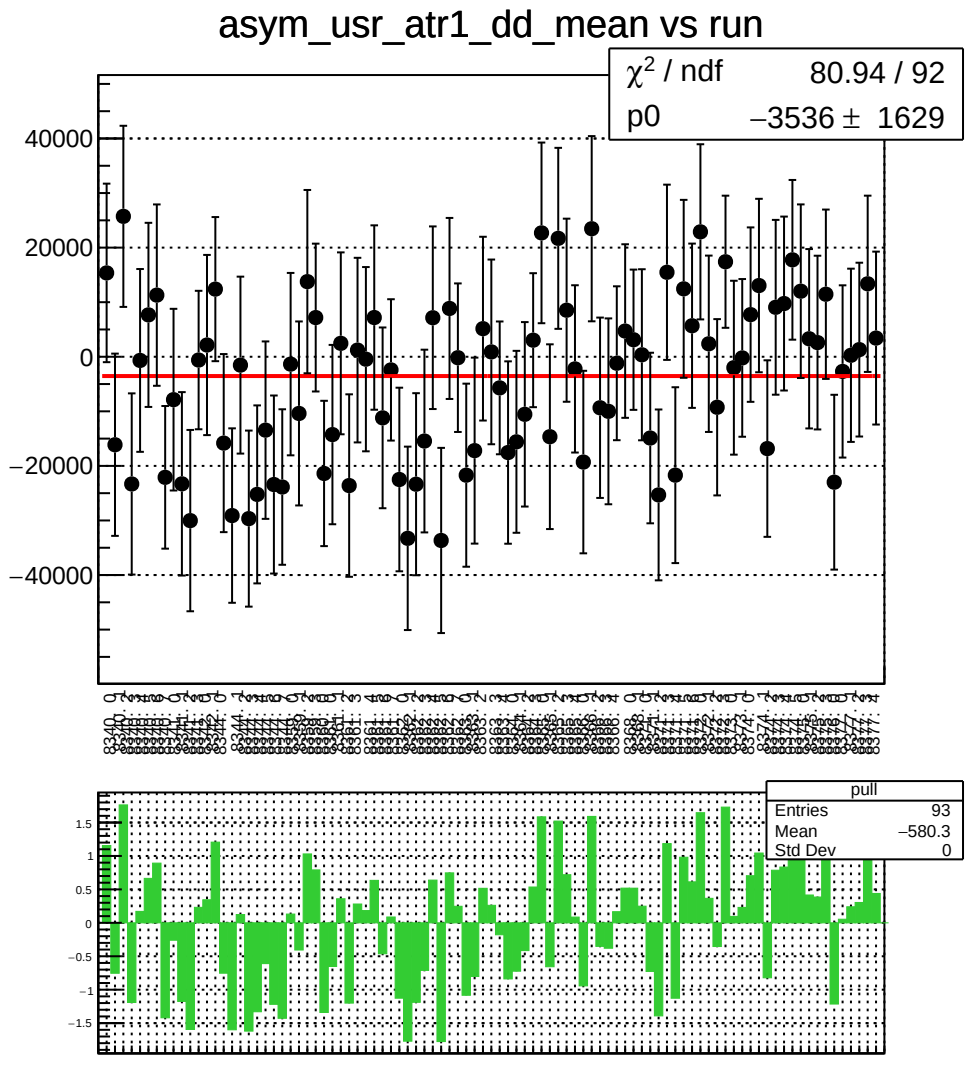

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 87.15 / 92
p0 −710.1± 1397
pull
Entries 93
Mean 1160
Std Dev 0

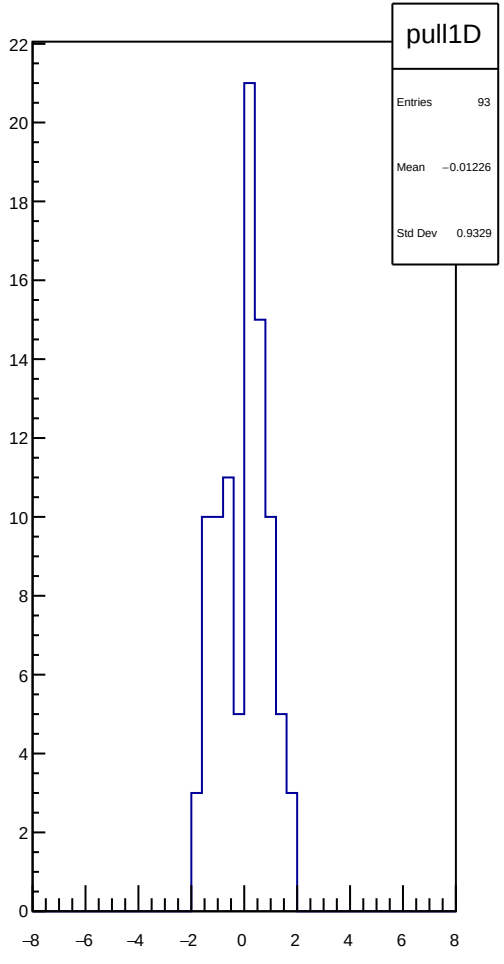

pull1D
Entries 93
Mean 0.005089
Std Dev 0.968

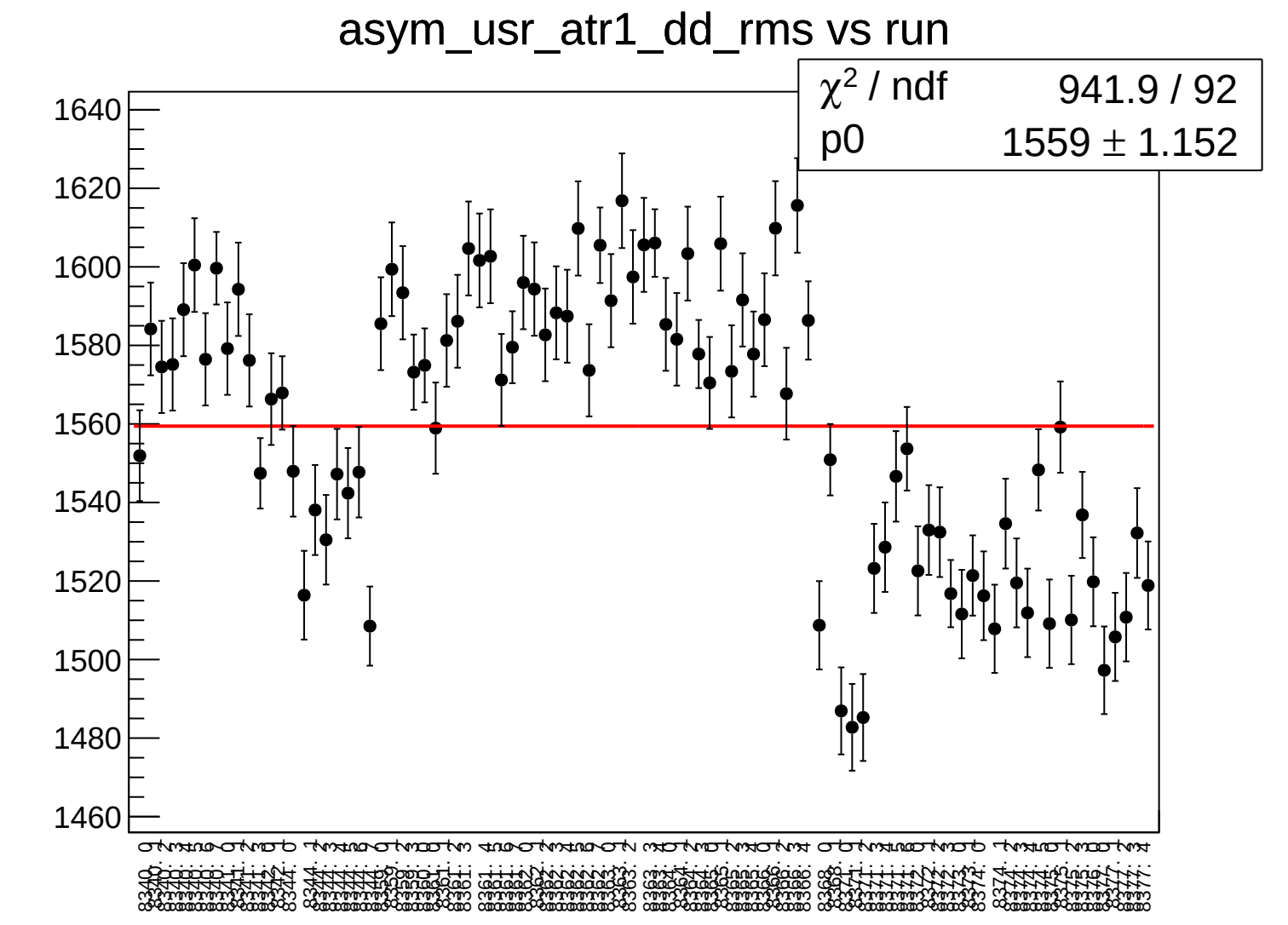

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 573.6 / 92
p0 1338 ± 0.9879
1400
1380
1360
1340
1320
1300
1280

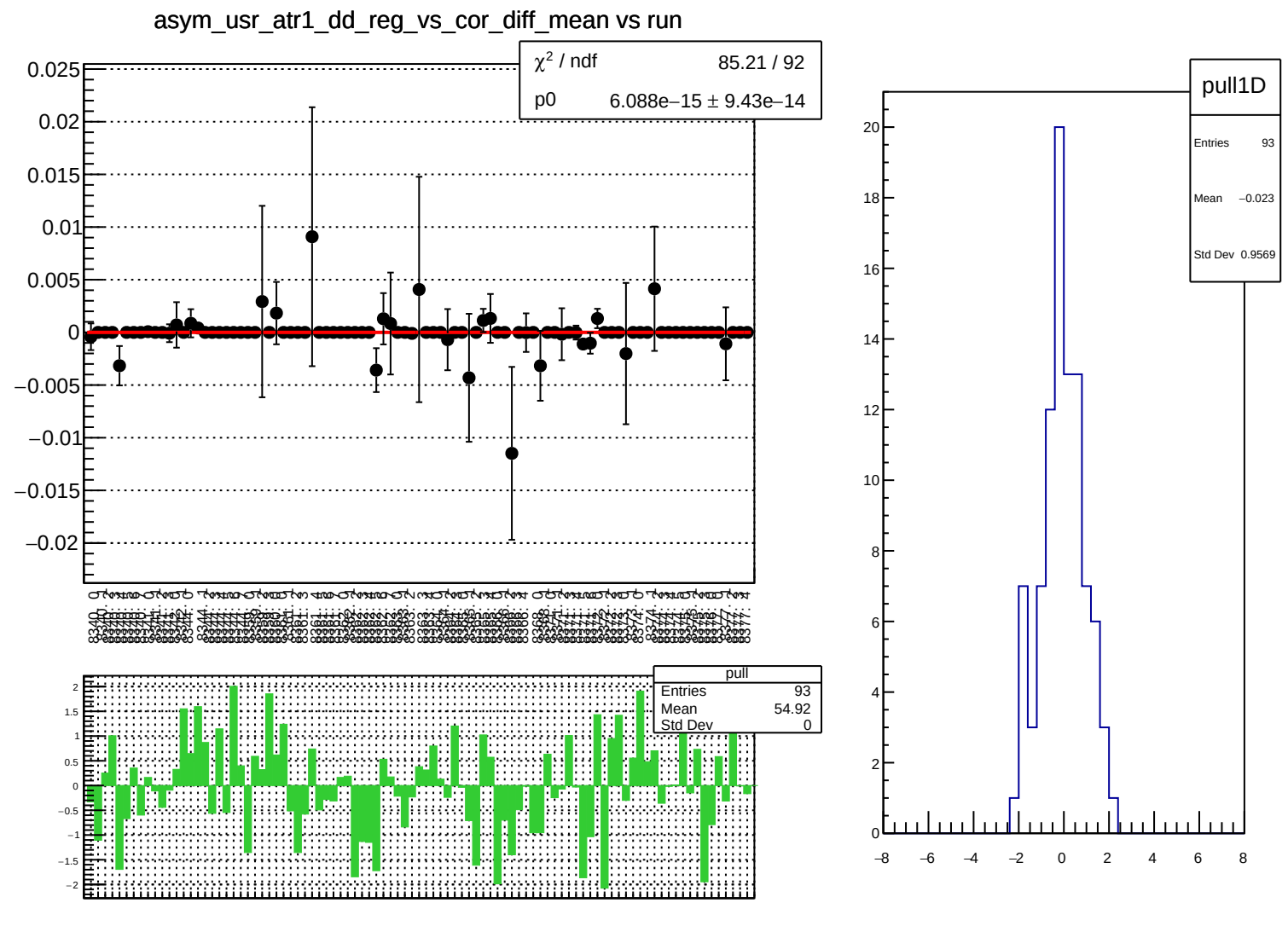

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.3 / 92
p0 2628 ± 826.4
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −78.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04408
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

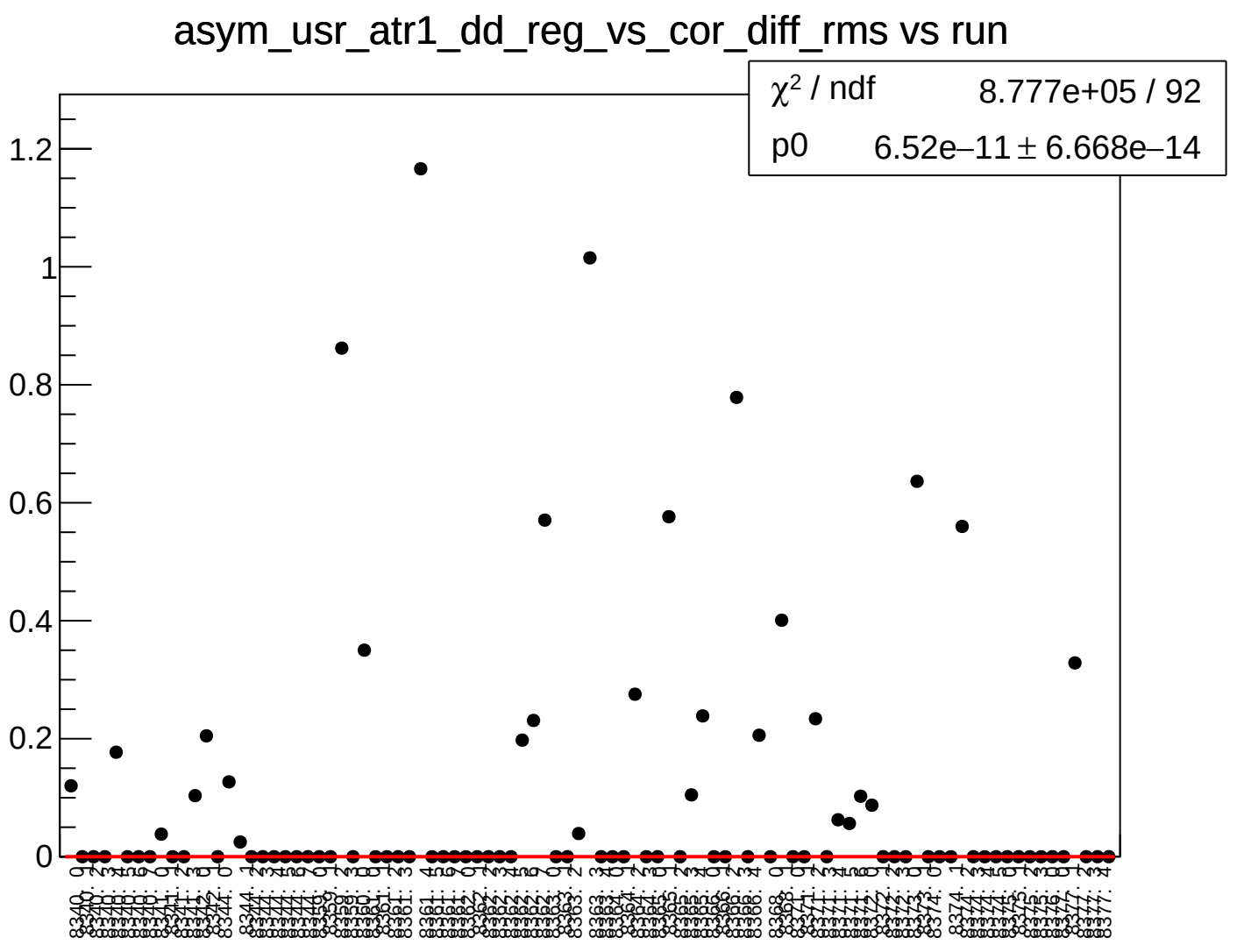

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.415e+04 / 92
p0 788.3 ± 0.5844
950
900
850
800
750
700
650

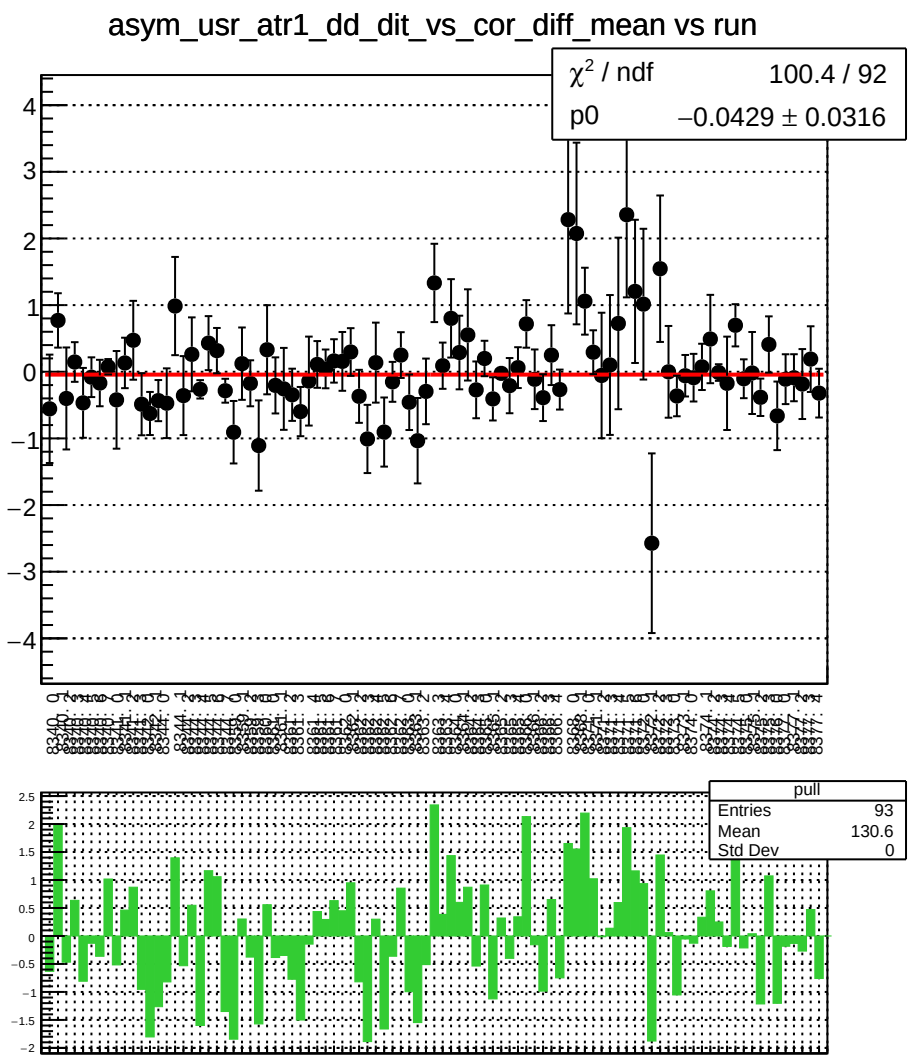

asym_usr_atr1_dd_mean vs run
χ² / ndf 80.94 / 92
p0 −3536 ± 1629
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −580.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

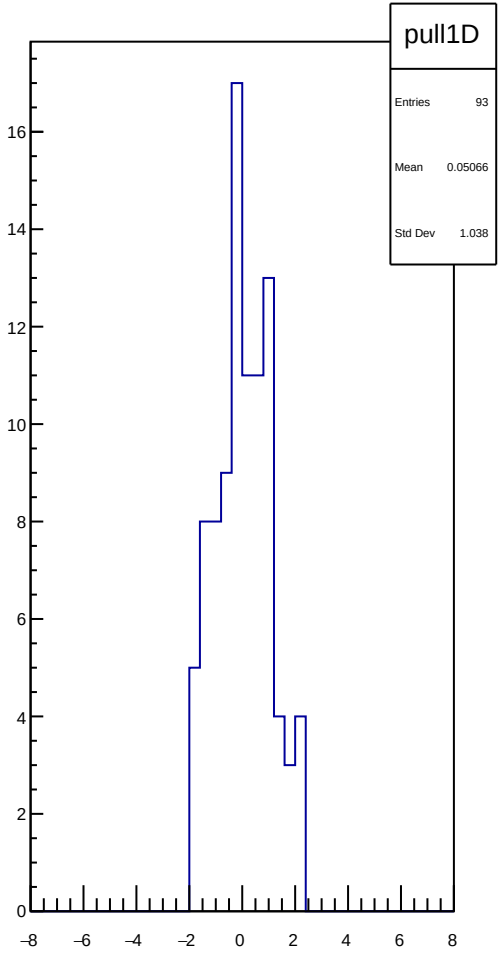

pull1D
Entries 93
Mean −0.01226
Std Dev 0.9329
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

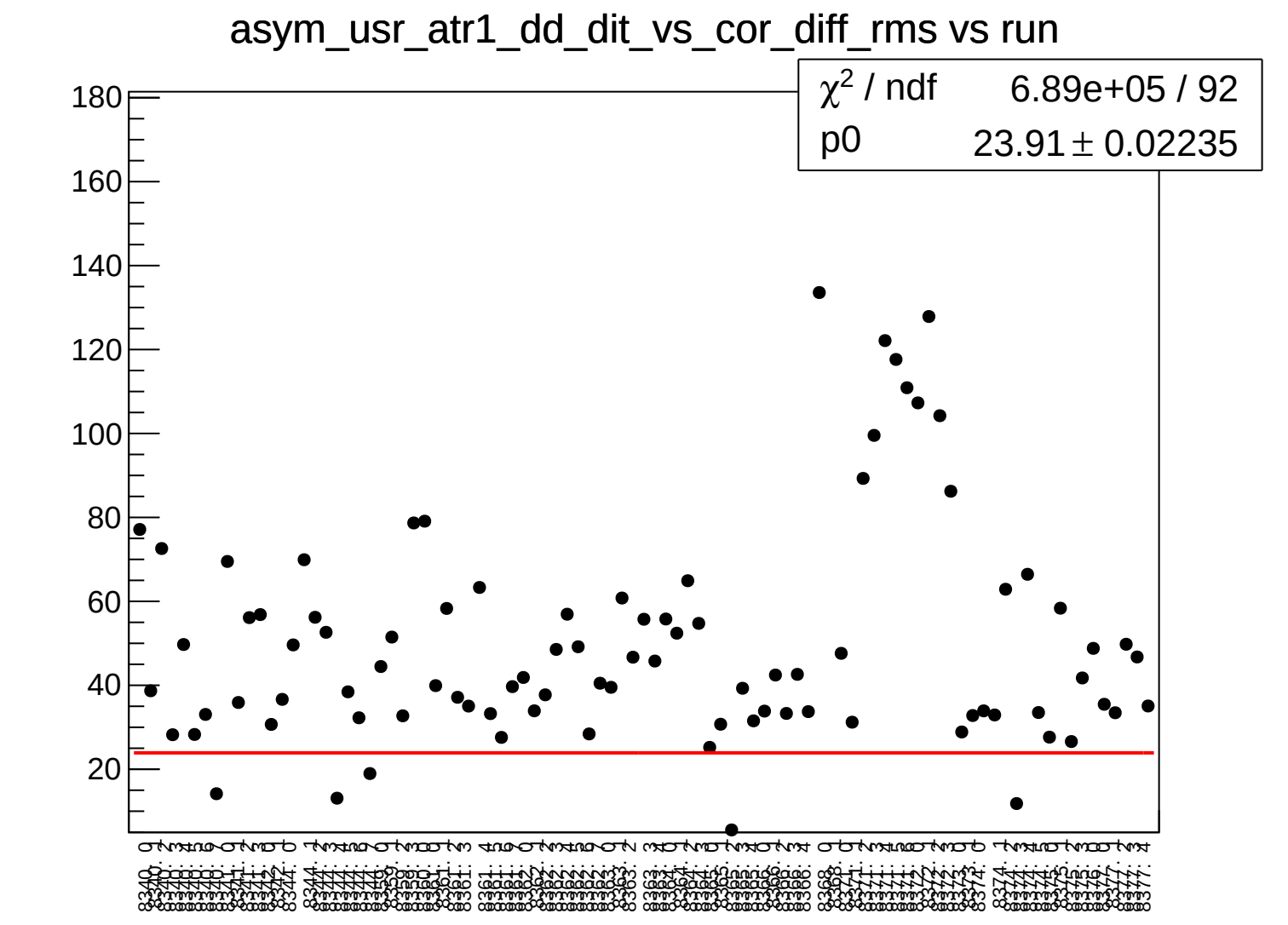

asym_usr_atr1_dd_rms vs run
χ² / ndf 941.9 / 92
p0 1559 ± 1.152
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460

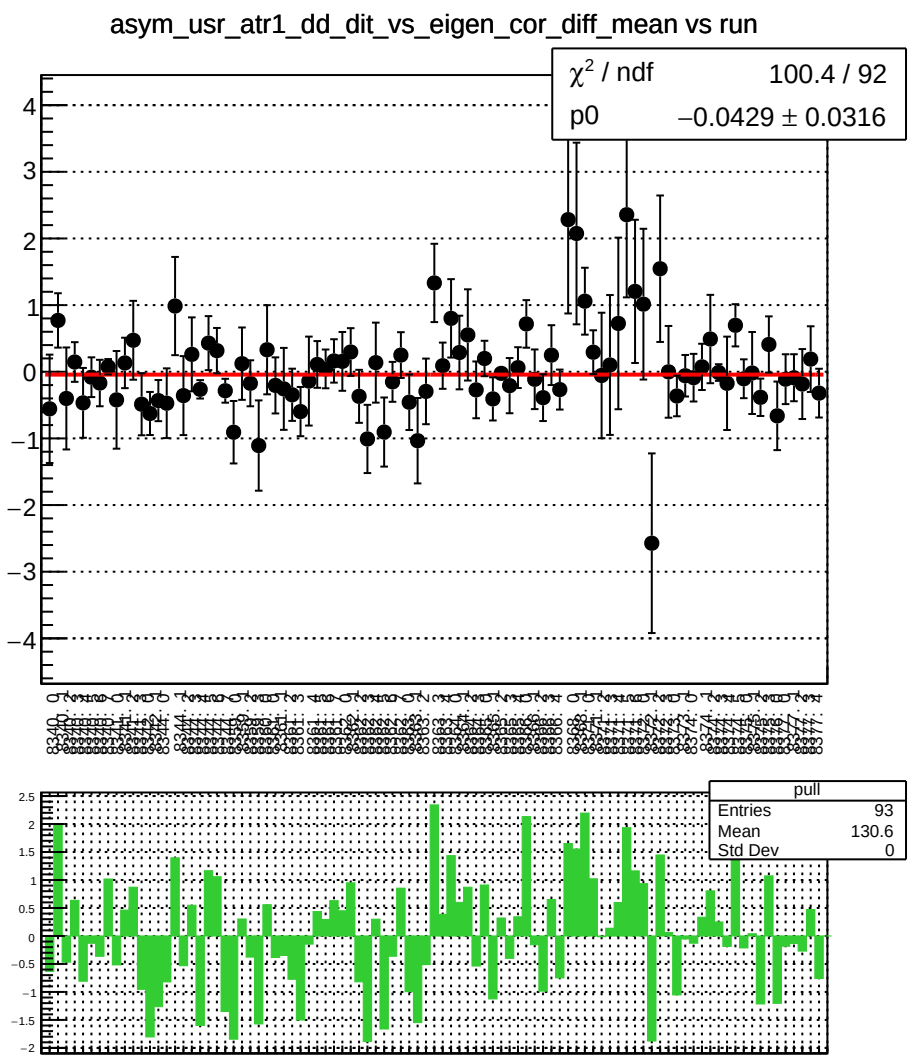

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.21 / 92
p0 6.088e−15 ± 9.43e−14
pull
Entries 93
Mean 54.92
Std Dev 0
pull1D
Entries 93
Mean −0.023
Std Dev 0.9569

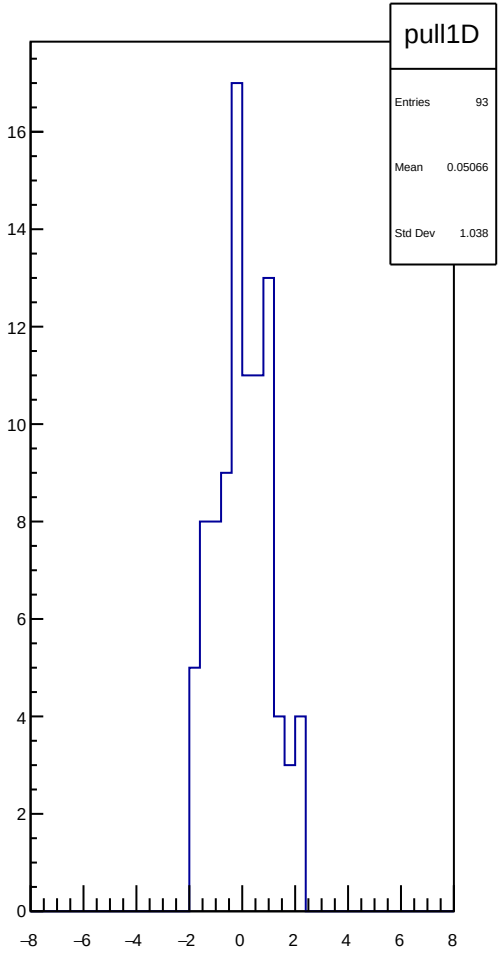

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.777e+05 / 92
p0 6.52e−11 ± 6.668e−14
1.2
1
0.8
0.6
0.4
0.2
0

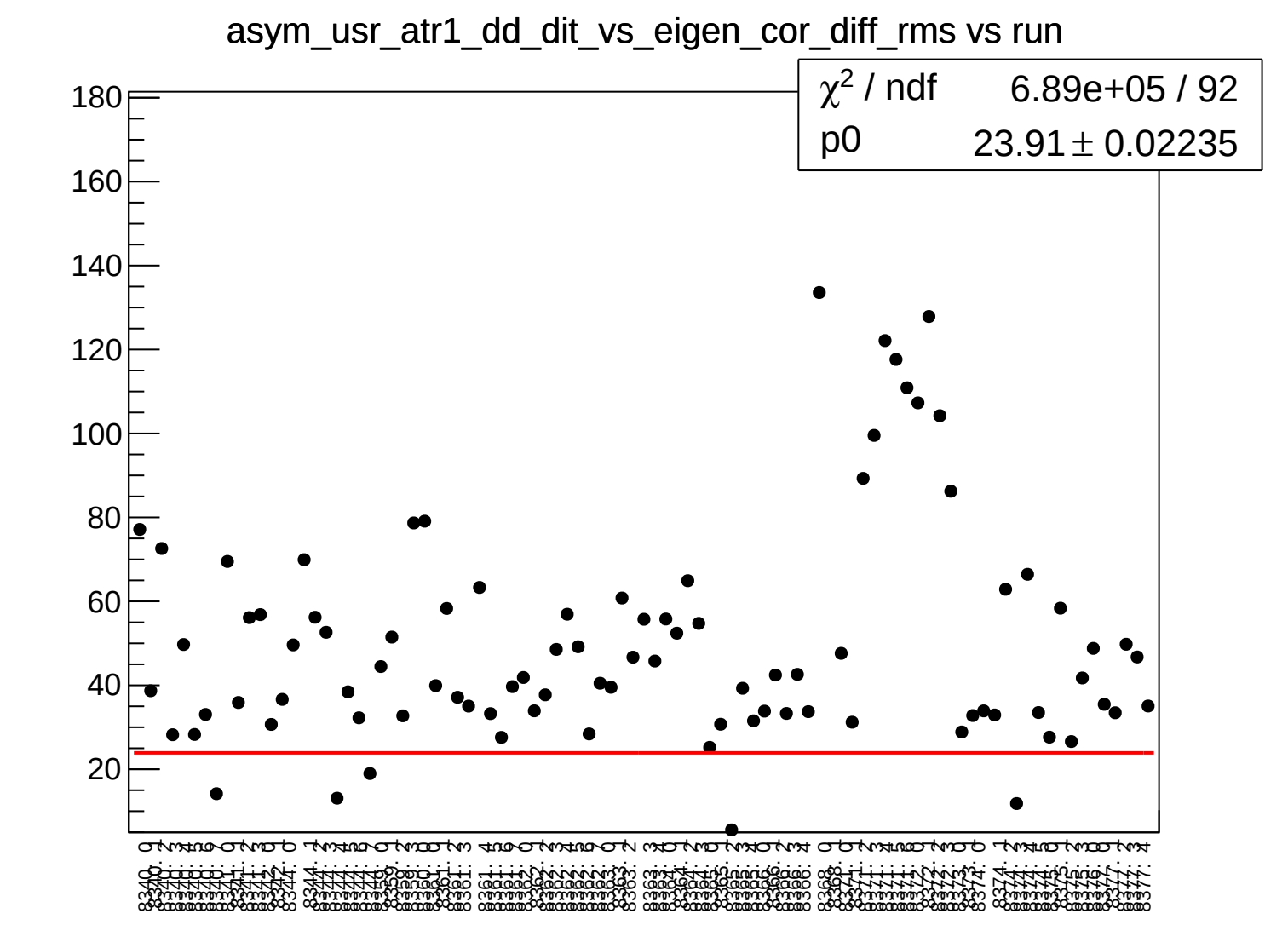

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 92
p0 −0.0429 ± 0.0316
pull
Entries 93
Mean 130.6
Std Dev 0

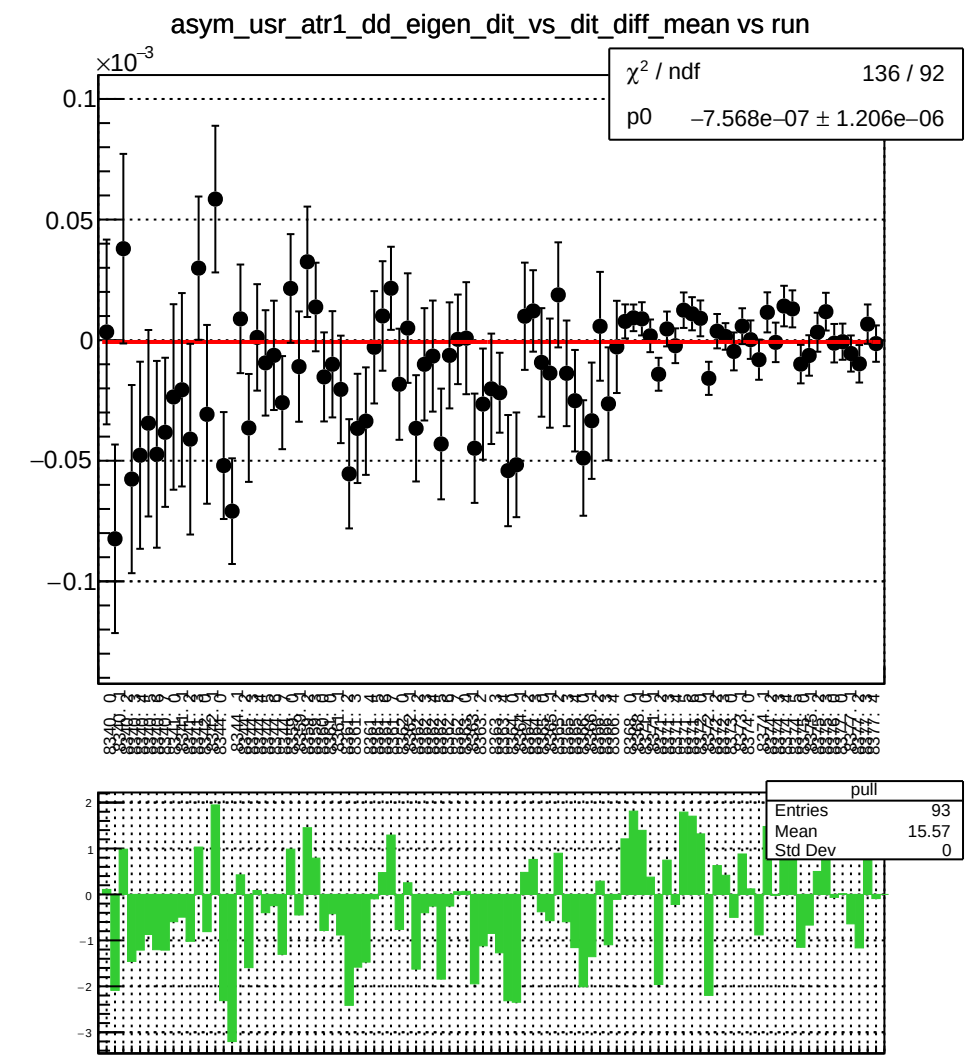

pull1D
Entries 93
Mean 0.05066
Std Dev 1.038

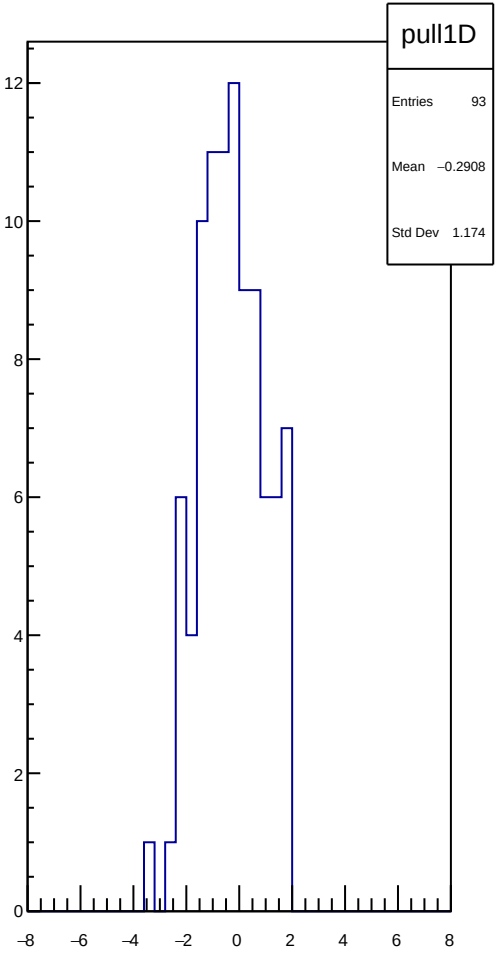

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 92
p0 23.91 ± 0.02235
180
160
140
120
100
80
60
40
20

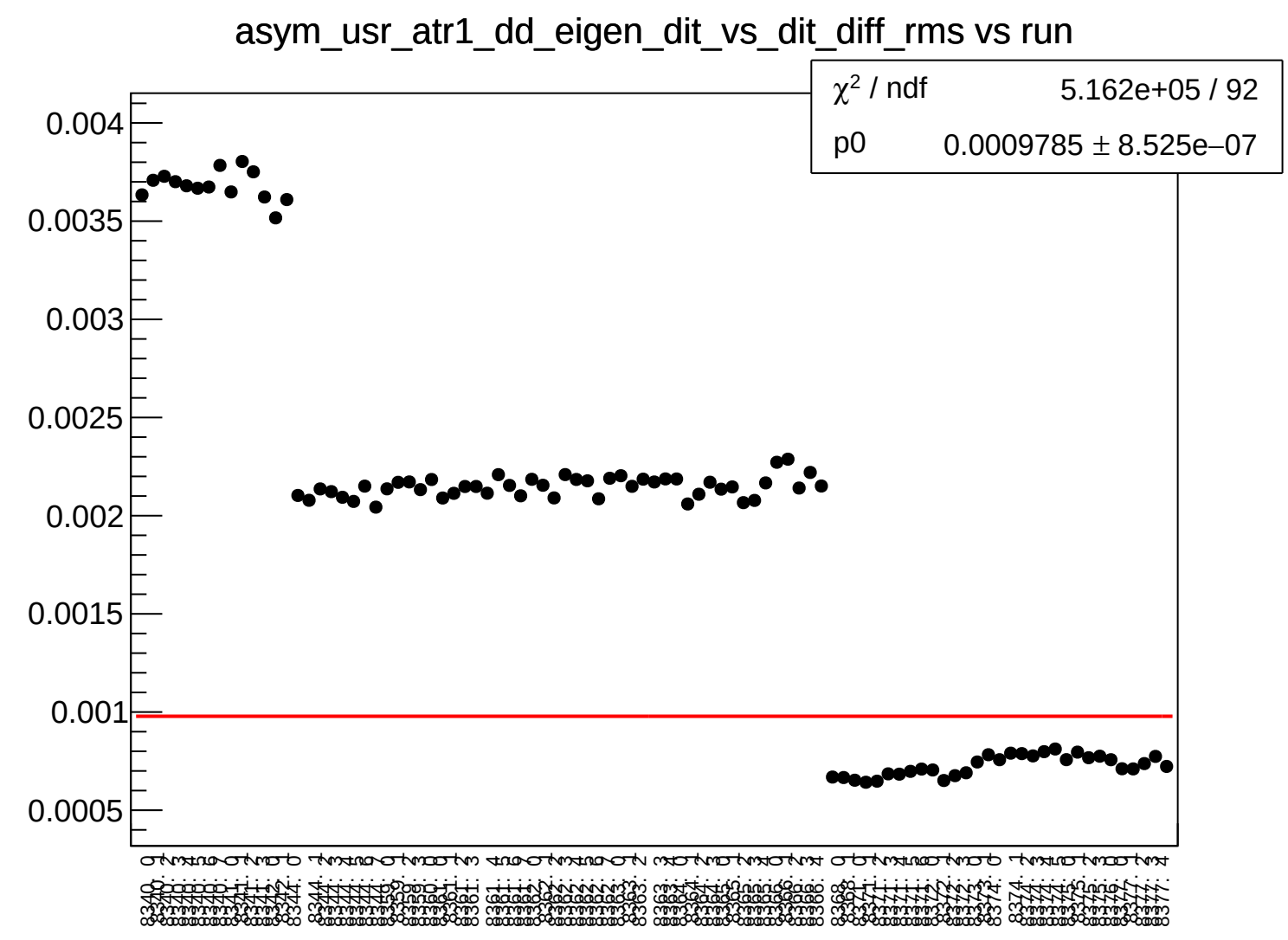

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 92
p0 −0.0429 ± 0.0316
pull
Entries 93
Mean 130.6
Std Dev 0

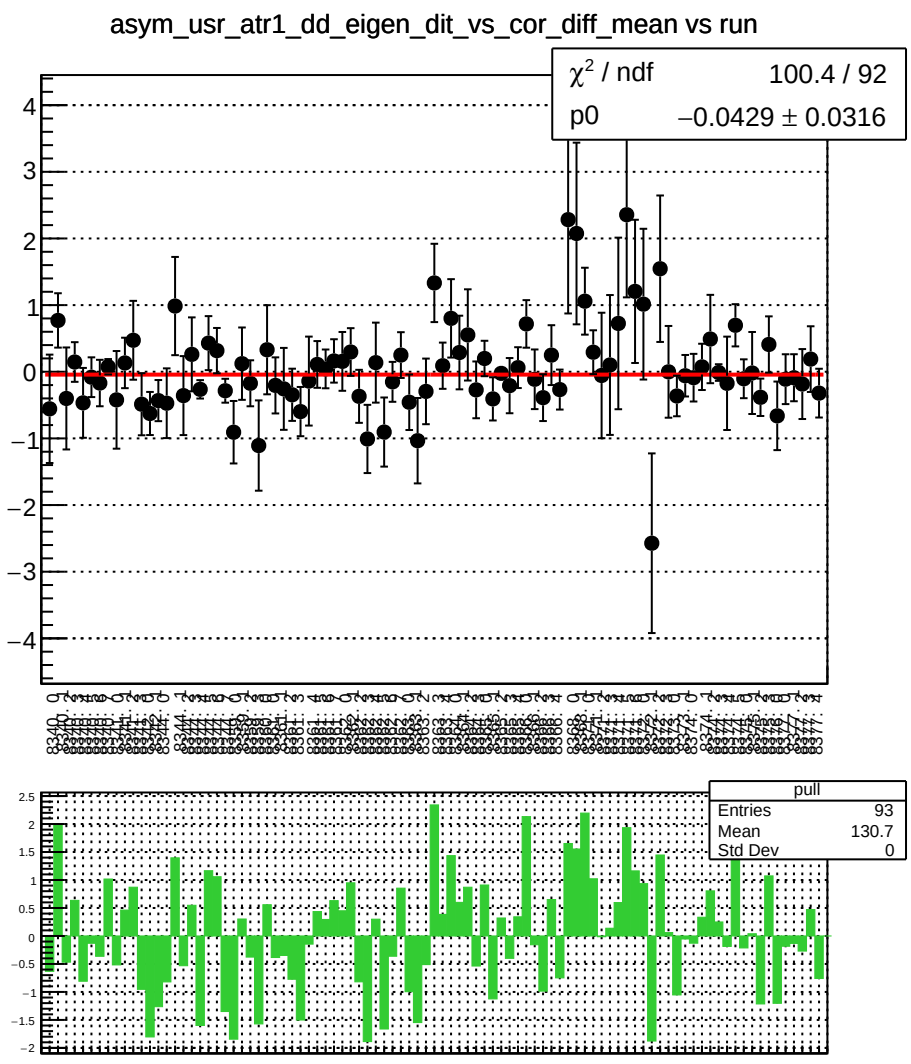

pull1D
Entries 93
Mean 0.05066
Std Dev 1.038

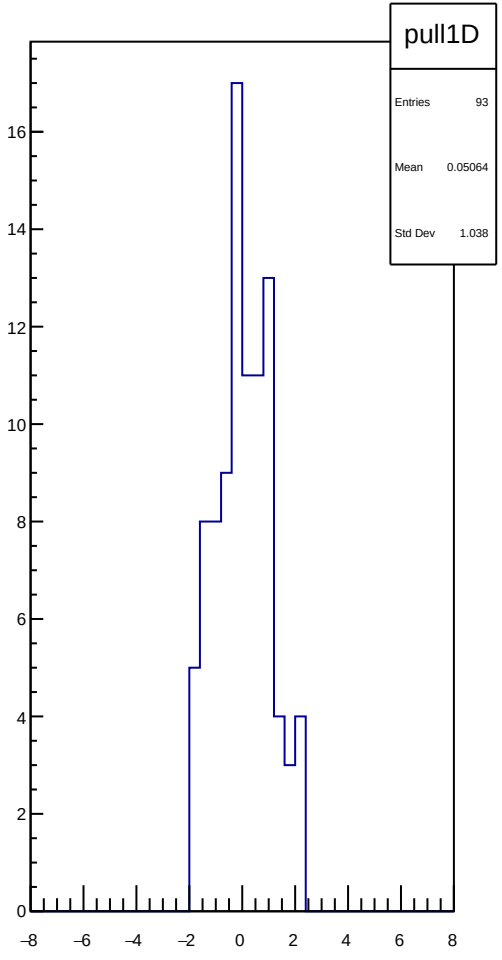

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 92
p0 23.91 ± 0.02235
180
160
140
120
100
80
60
40
20

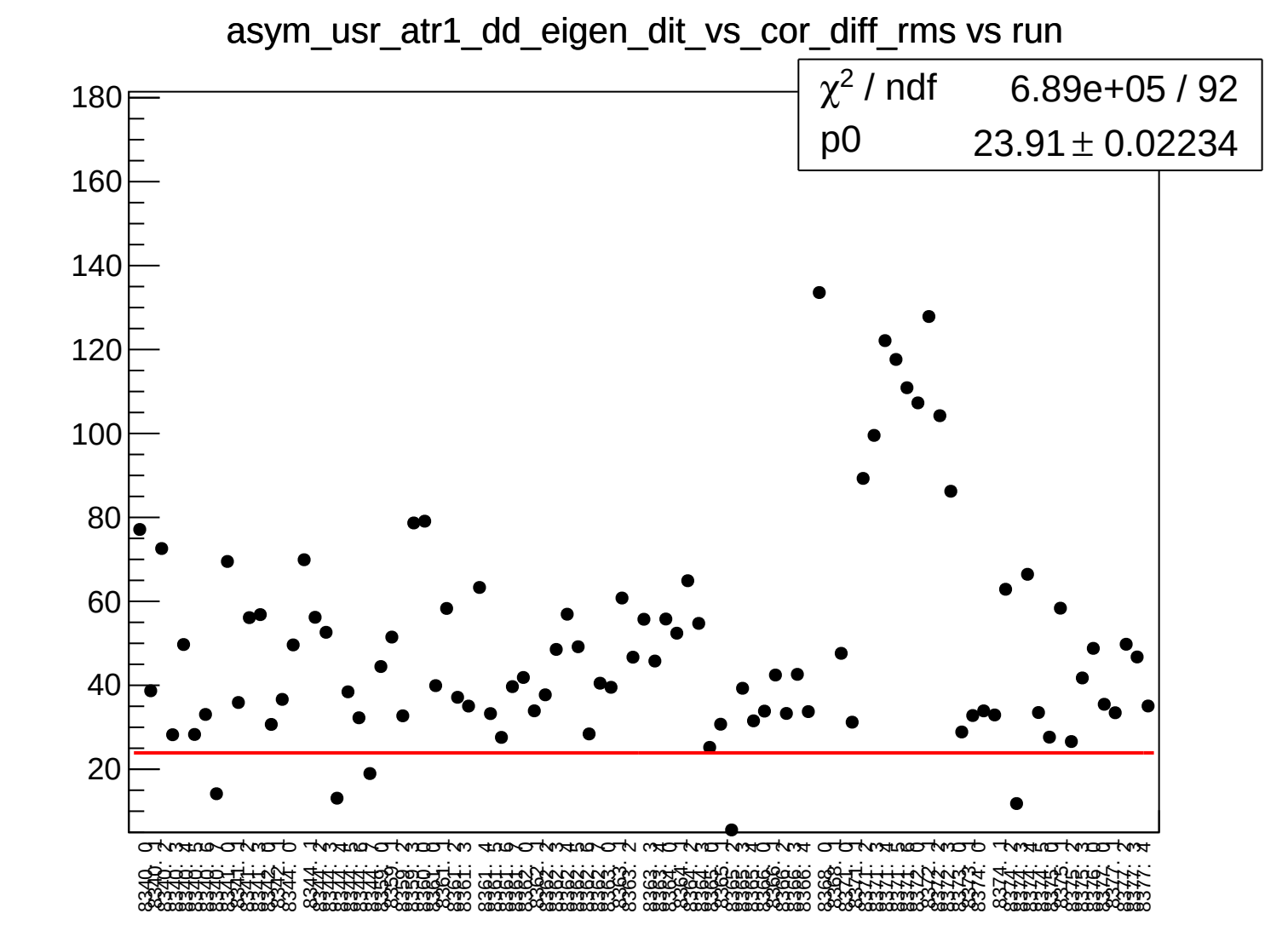

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 136 / 92
p0 −7.568e−07 ± 1.206e−06
pull
Entries 93
Mean 15.57
Std Dev 0

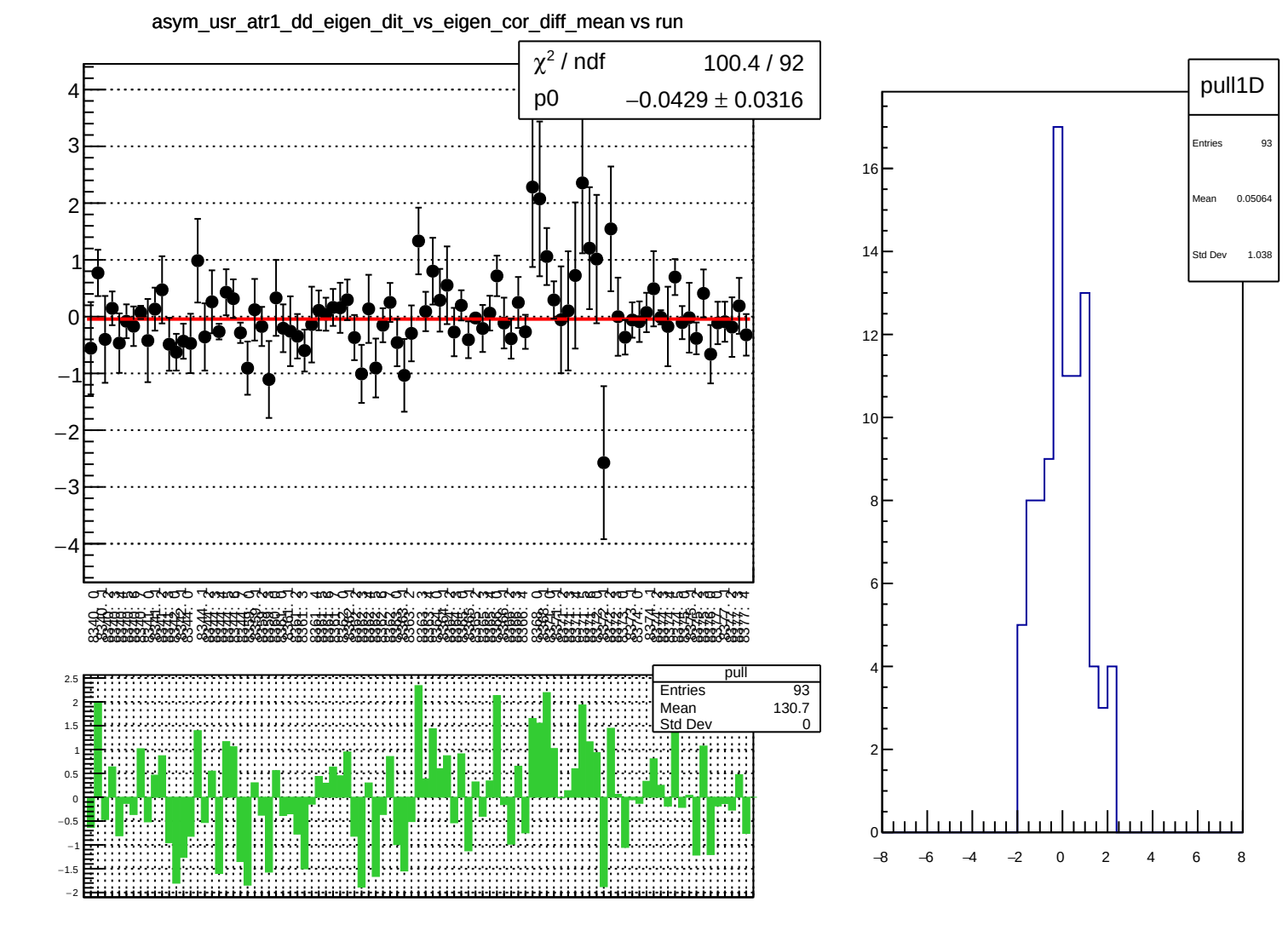

pull1D
Entries 93
Mean −0.2908
Std Dev 1.174

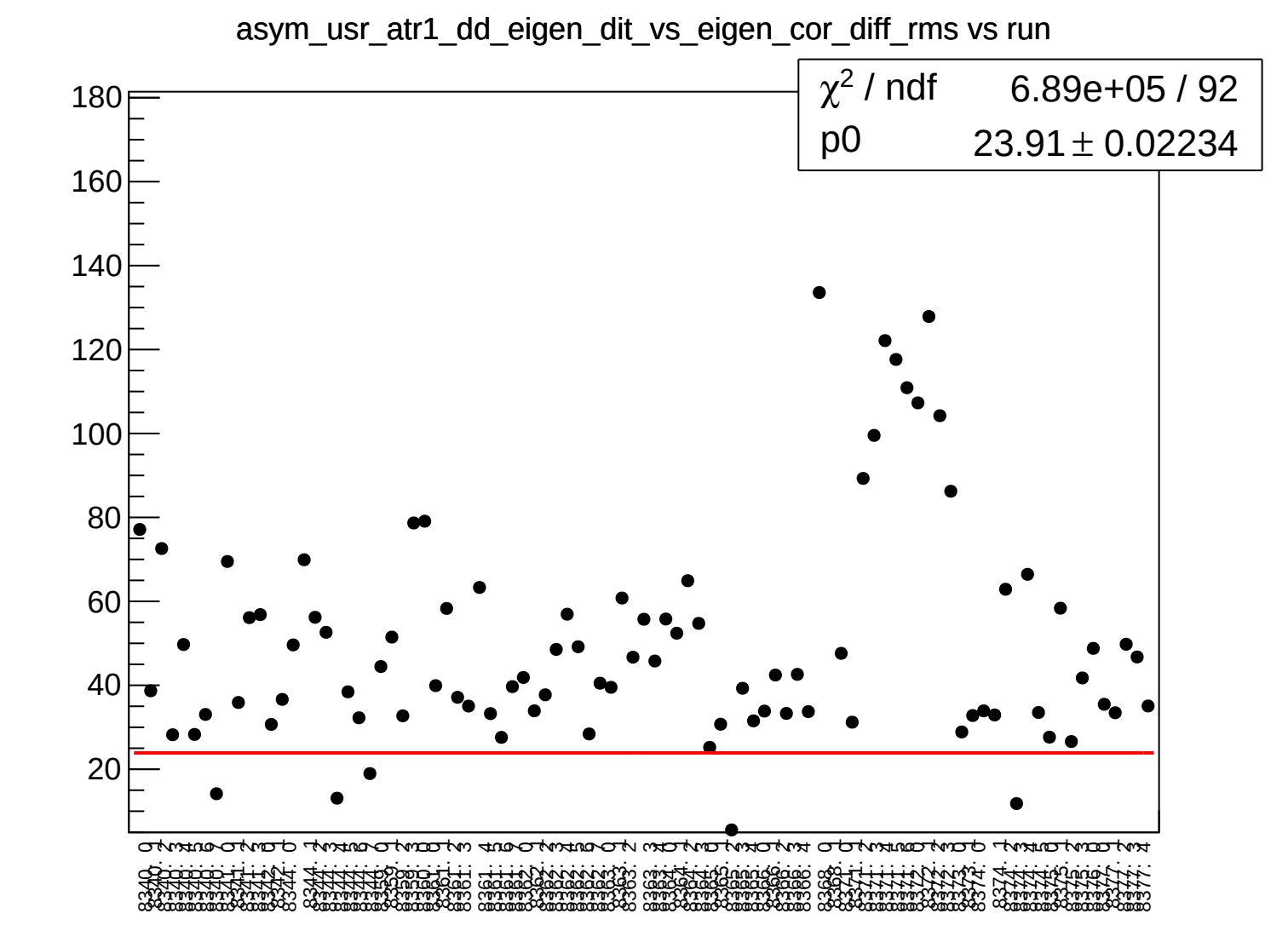

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.162e+05 / 92
p0 0.0009785 ± 8.525e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

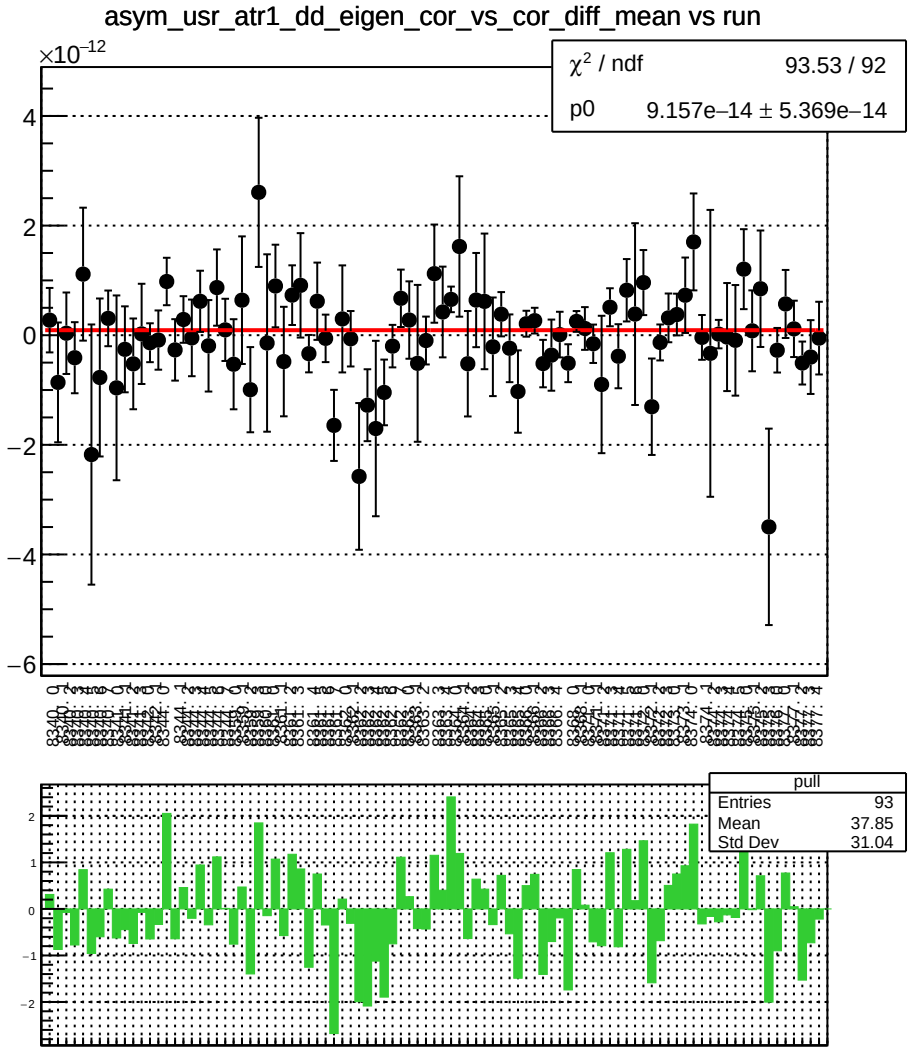

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 92
p0 −0.0429 ± 0.0316
pull
Entries 93
Mean 130.7
Std Dev 0

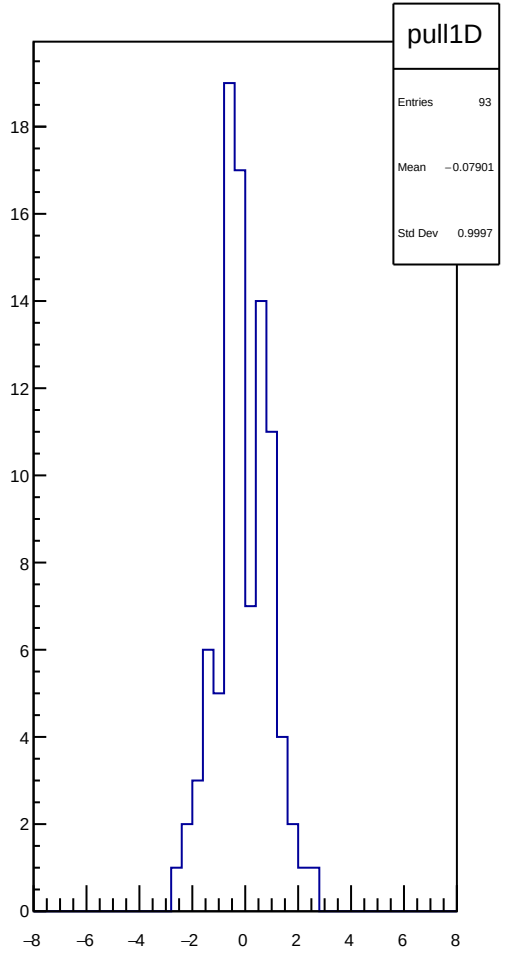

pull1D
Entries 93
Mean 0.05064
Std Dev 1.038

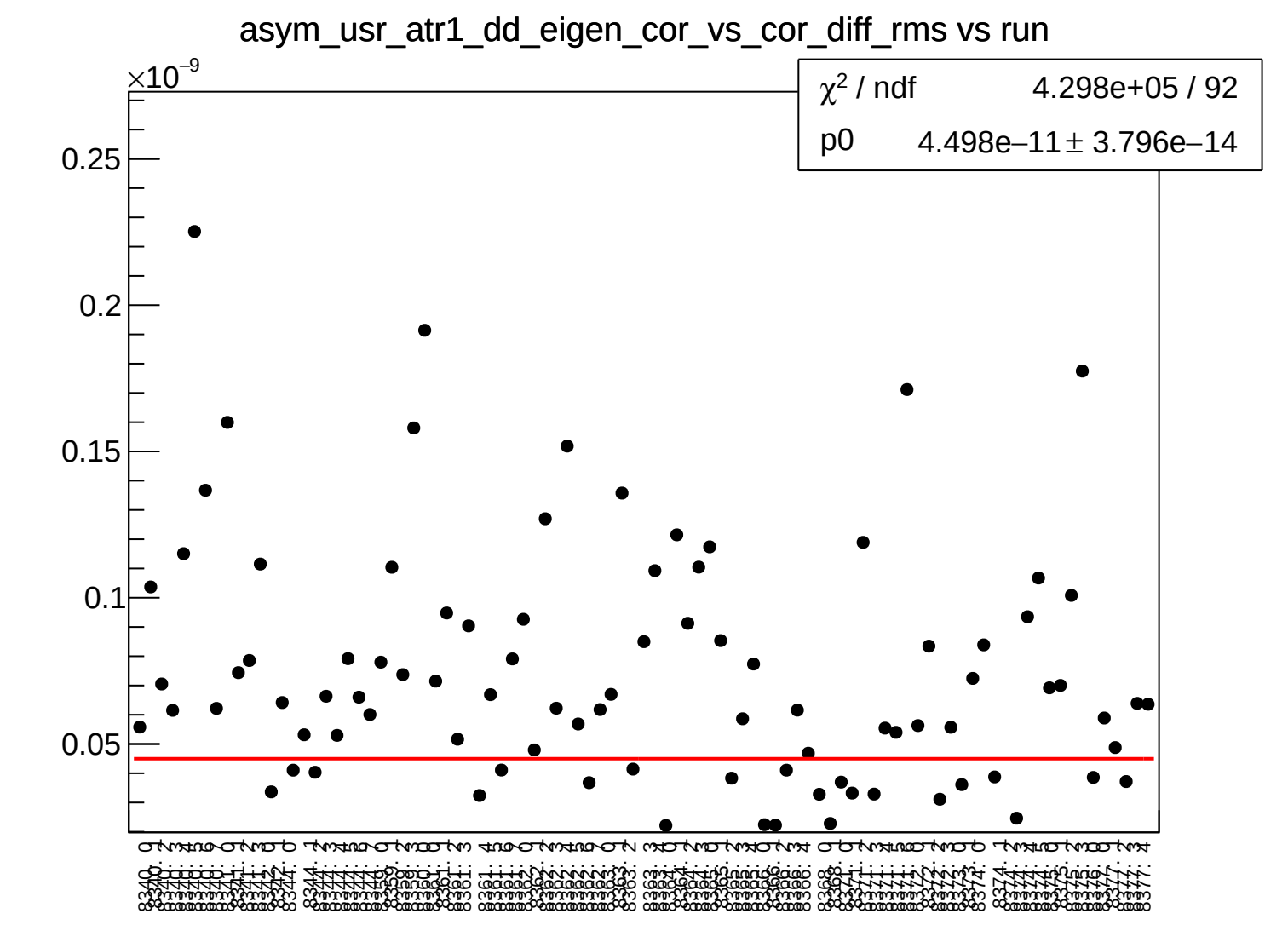

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 92
p0 23.91 ± 0.02234
180
160
140
120
100
80
60
40
20

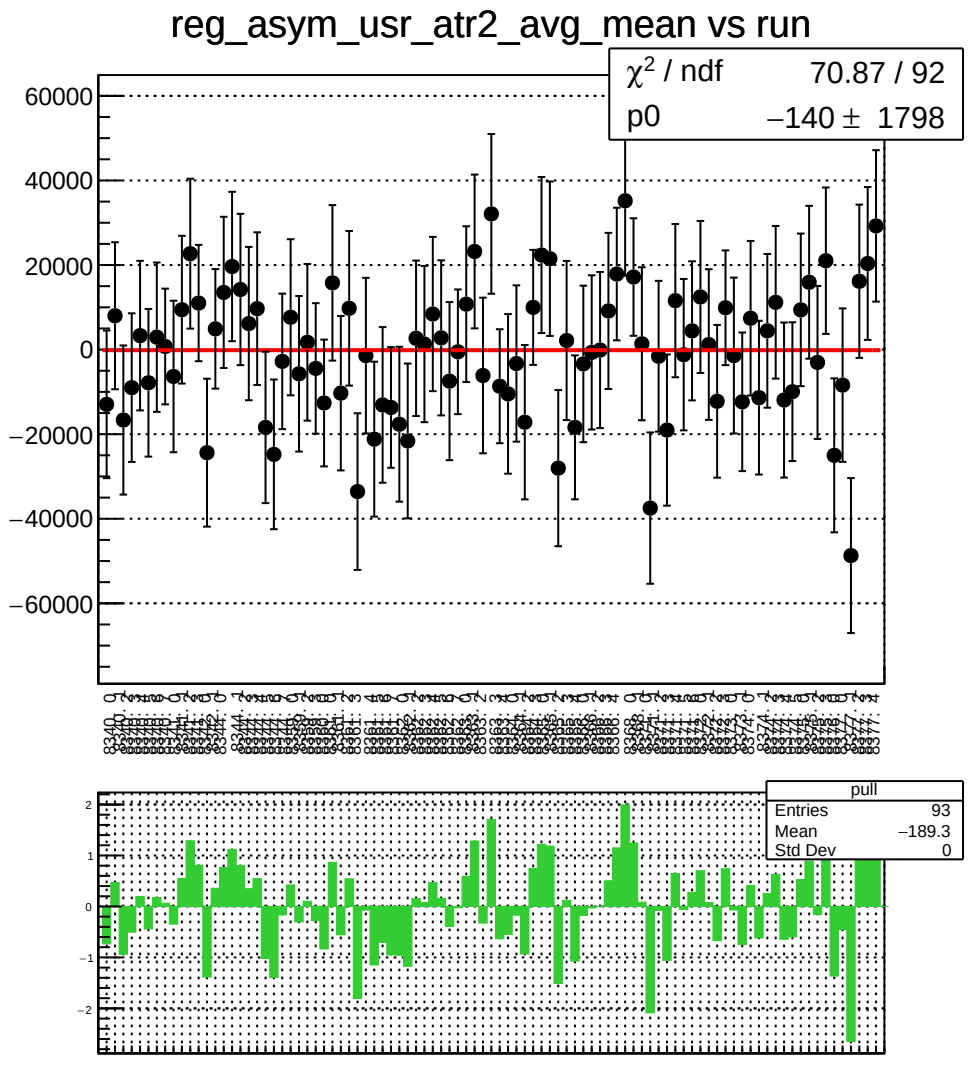

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 92
p0 −0.0429 ± 0.0316
pull
Entries 93
Mean 130.7
Std Dev 0
pull1D
Entries 93
Mean 0.05064
Std Dev 1.038

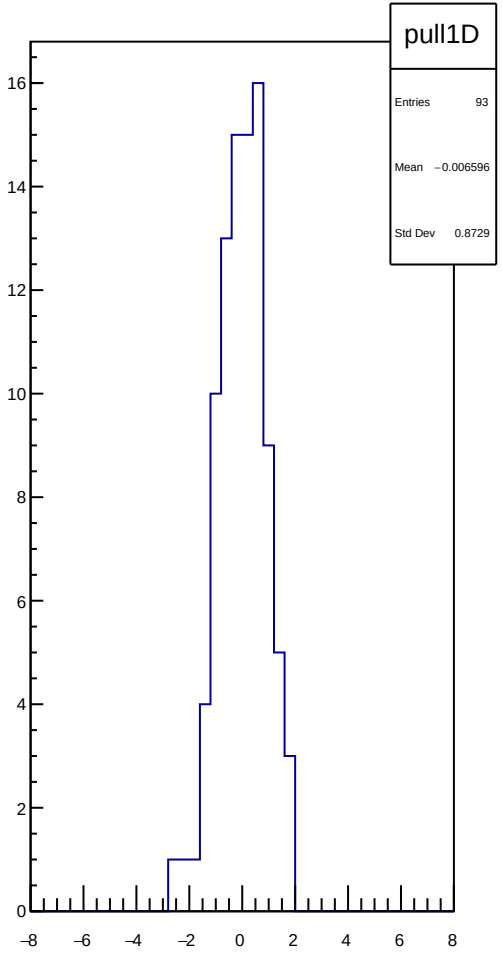

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.89e+05 / 92
p0 23.91 ± 0.02234
180
160
140
120
100
80
60
40
20

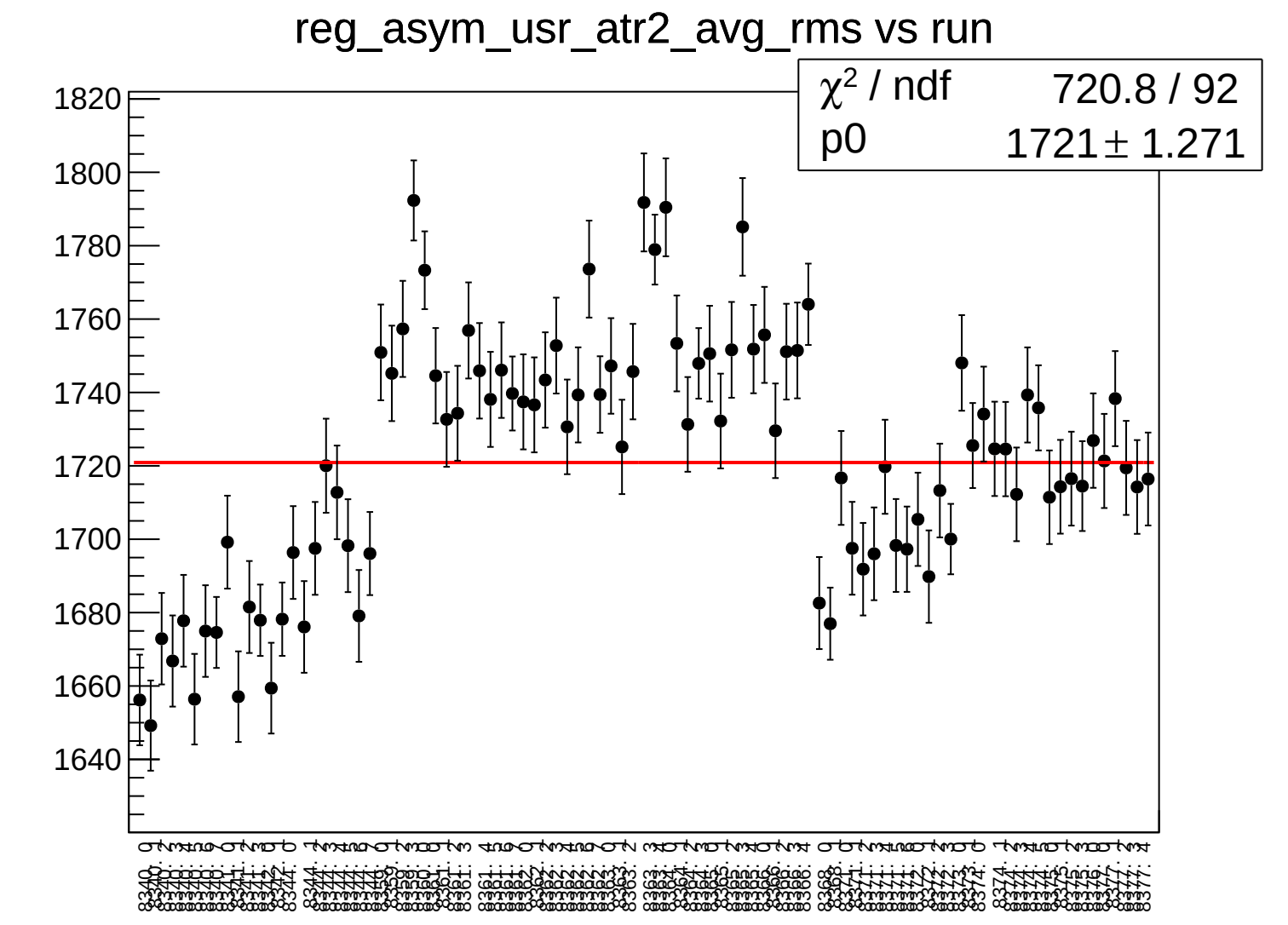

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.53 / 92
p0 9.157e−14 ± 5.369e−14
pull
Entries 93
Mean 37.85
Std Dev 31.04

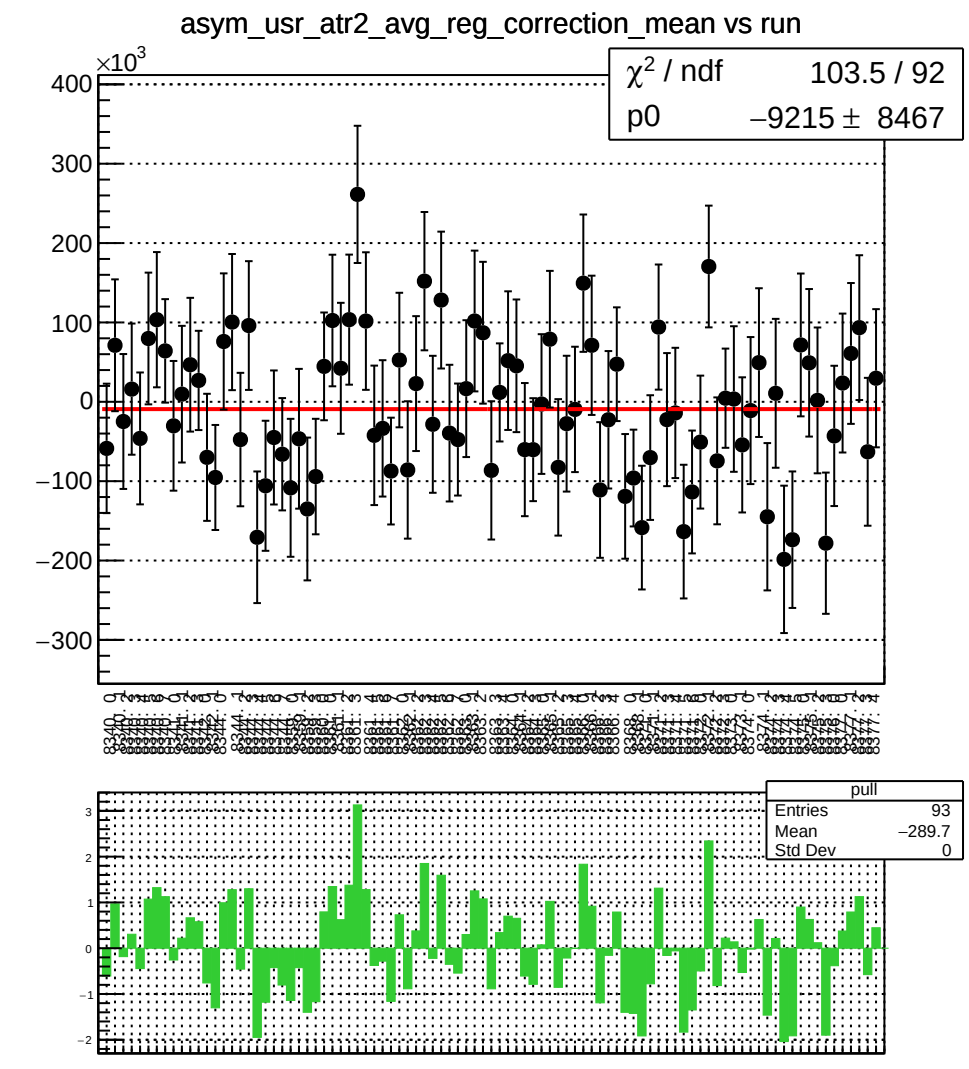

pull1D
Entries 93
Mean −0.07901
Std Dev 0.9997

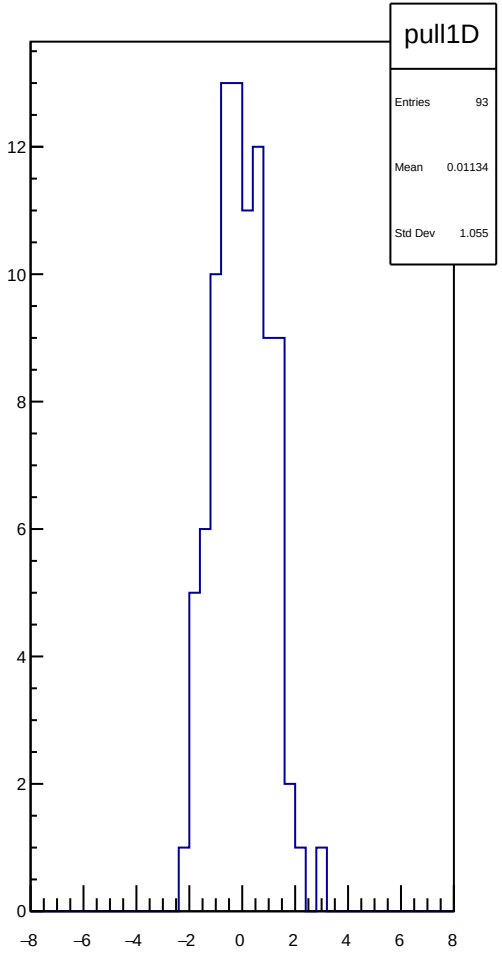

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.298e+05 / 92
p0 4.498e−11 ± 3.796e−14
0.25
0.2
0.15
0.1
0.05

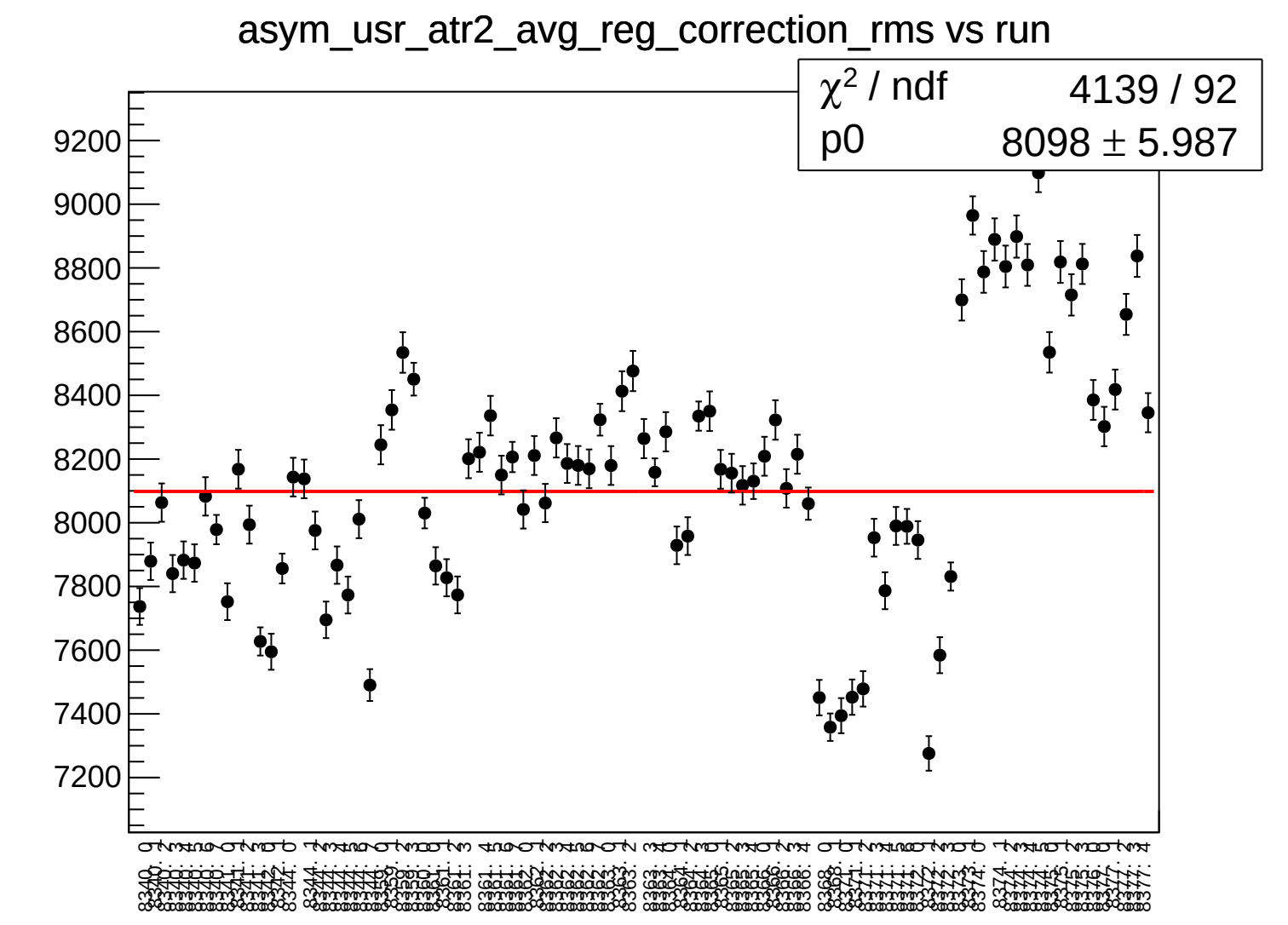

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.87 / 92
p0 −140 ± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −189.3
Std Dev 0
2
1
0
−1
−2

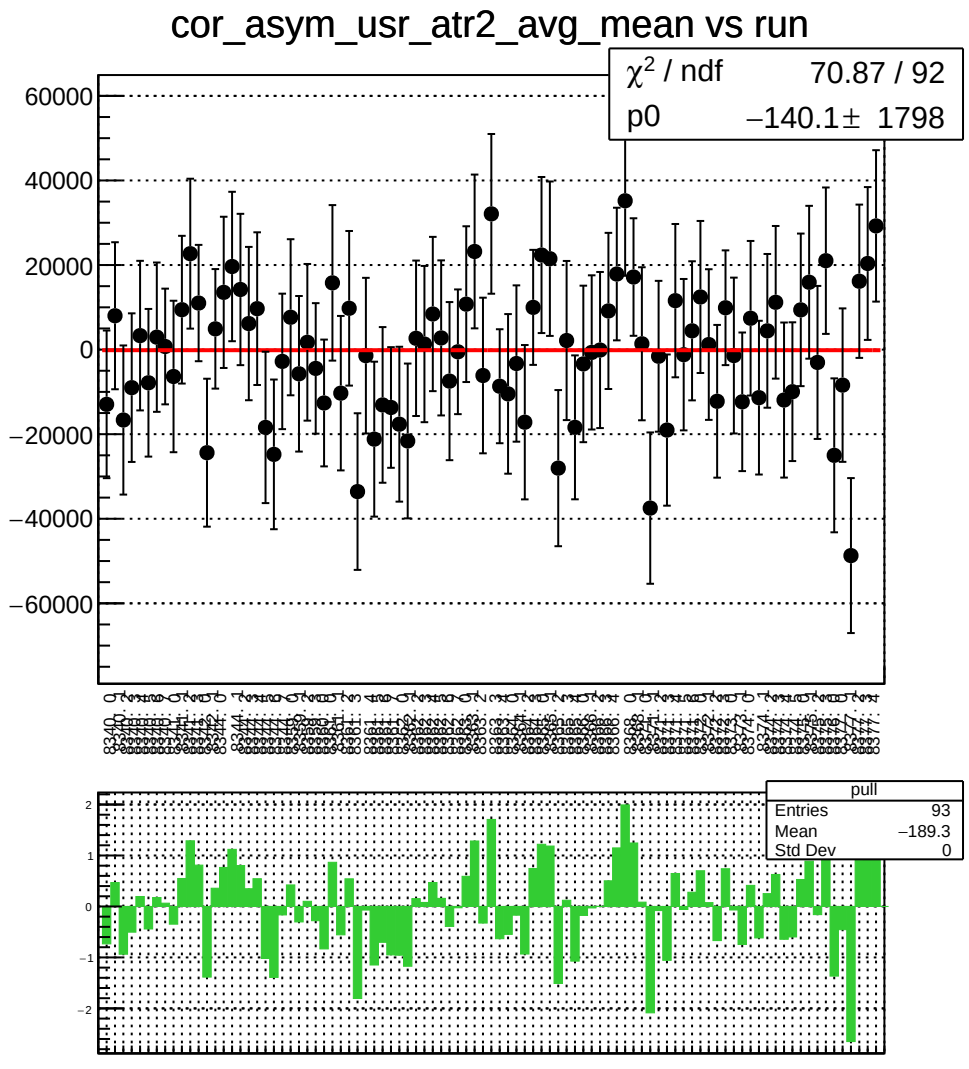

pull1D
Entries 93
Mean −0.006596
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

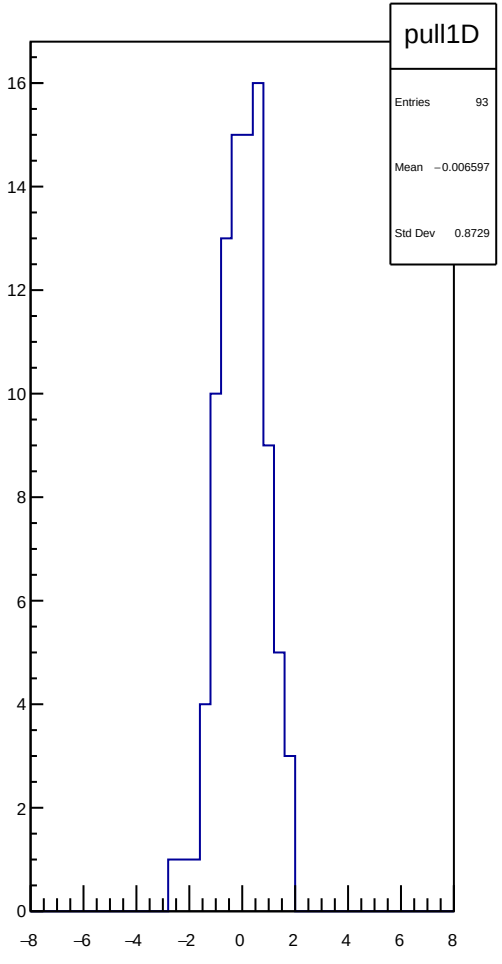

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 720.8 / 92
p0 1721 ± 1.271
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

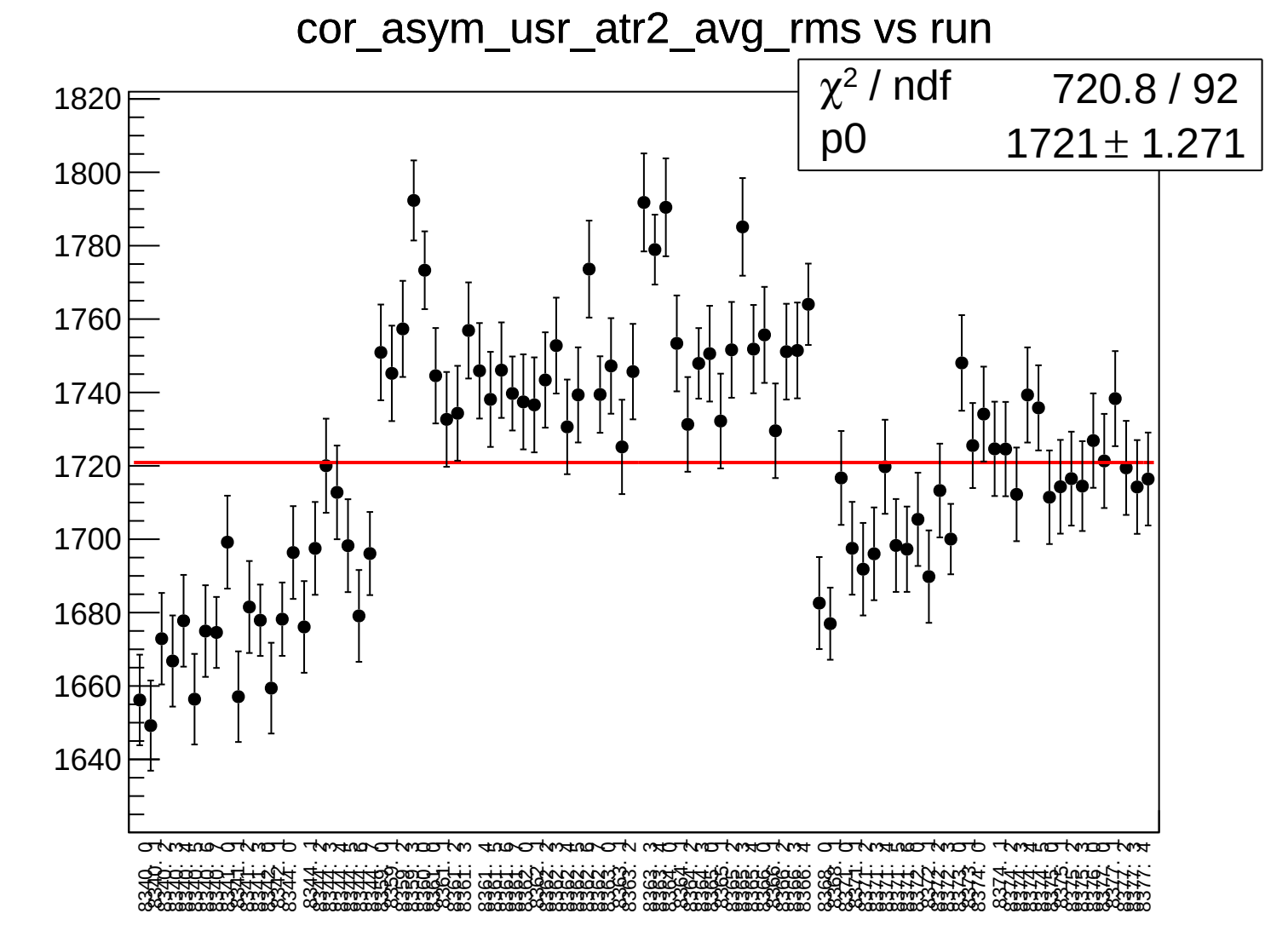

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 103.5 / 92
p0 −9215 ± 8467
pull
Entries 93
Mean −289.7
Std Dev 0

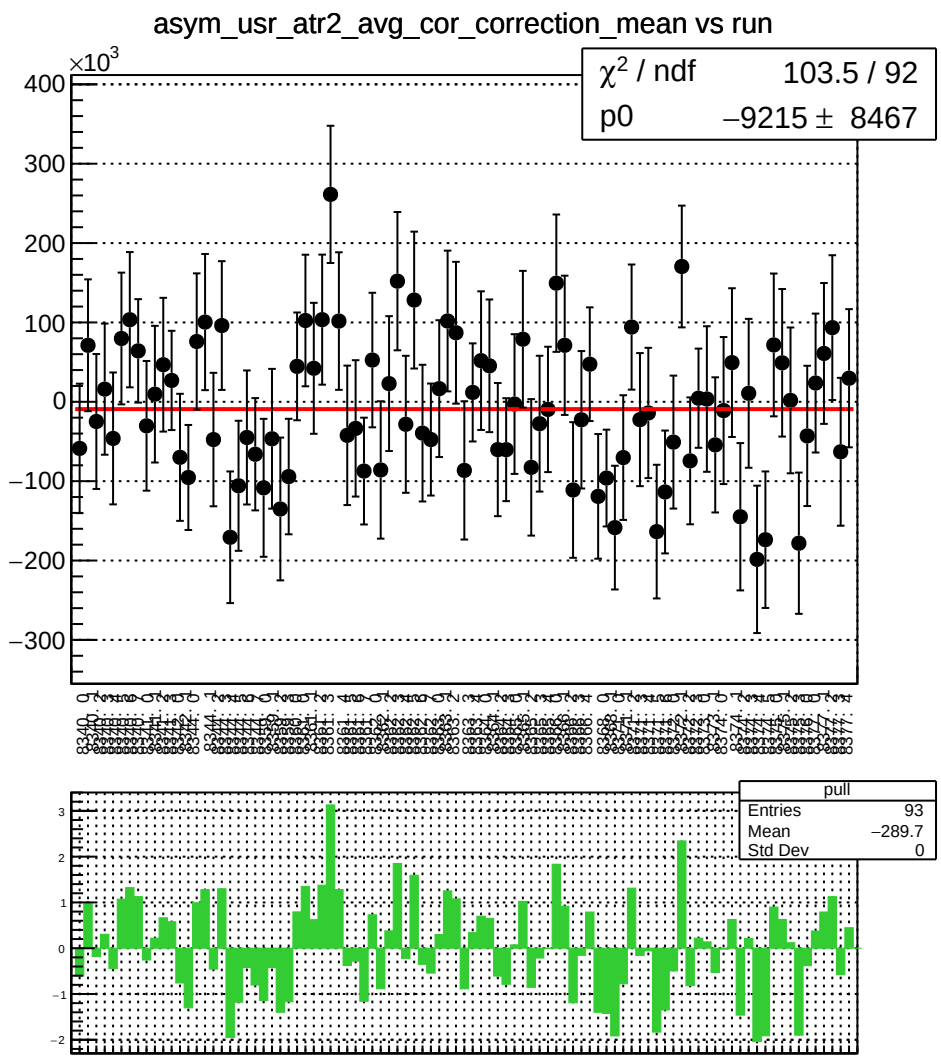

pull1D
Entries 93
Mean 0.01134
Std Dev 1.055

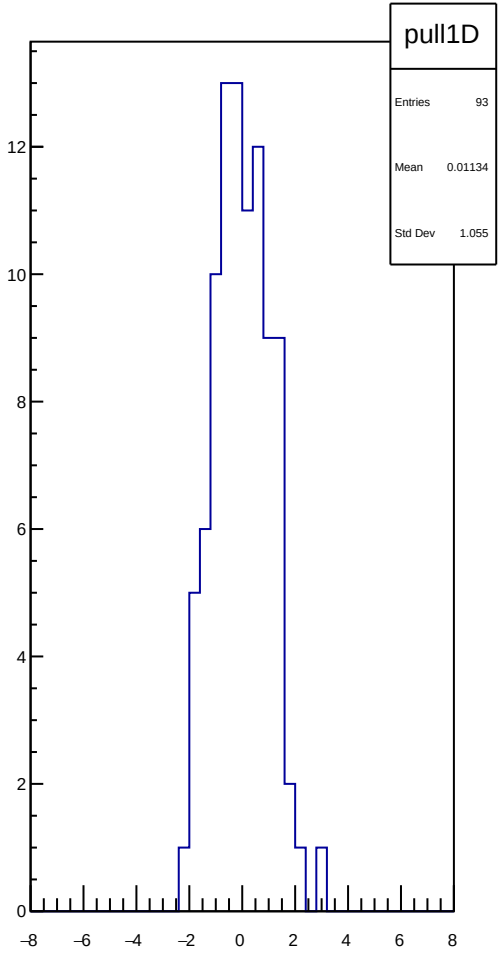

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4139 / 92
p0 8098 ± 5.987
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

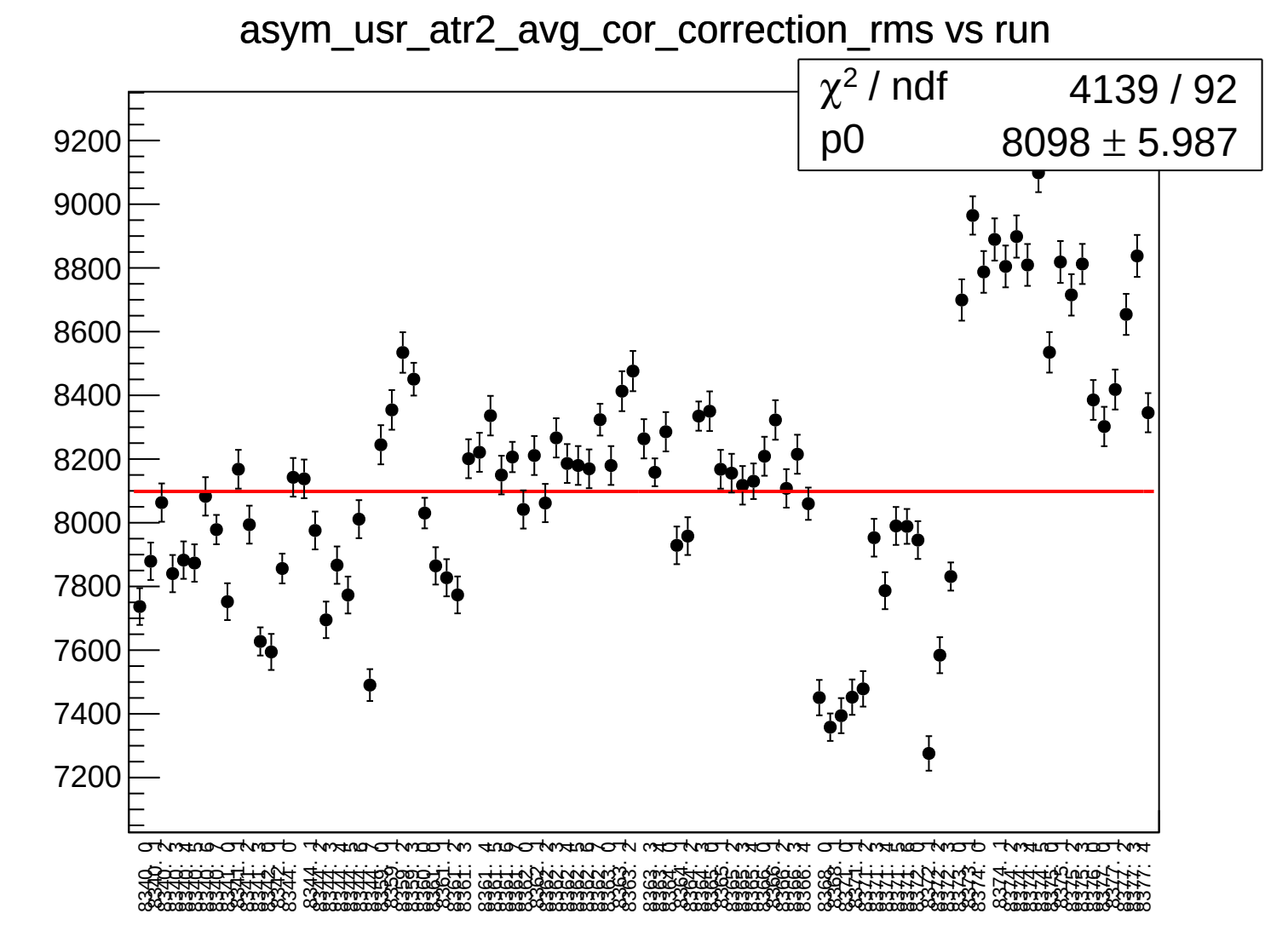

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.87 / 92
p0 −140.1± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −189.3
Std Dev 0
2
1
0
−1
−2

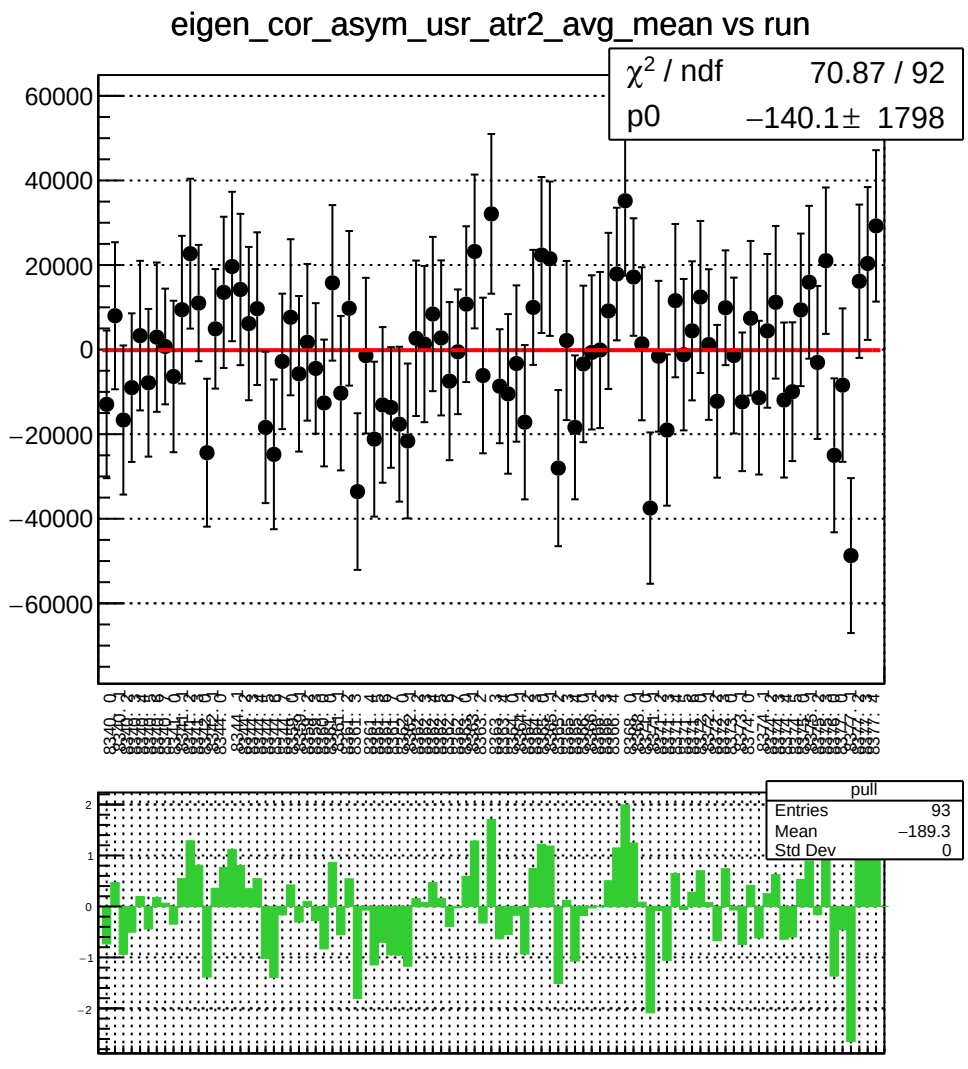

pull1D
Entries 93
Mean −0.006597
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

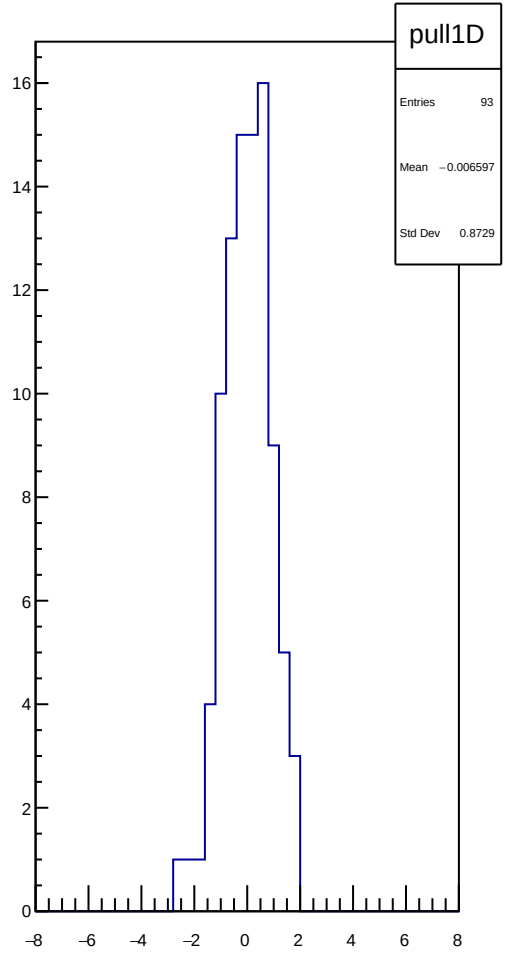

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 720.8 / 92
p0 1721 ± 1.271
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

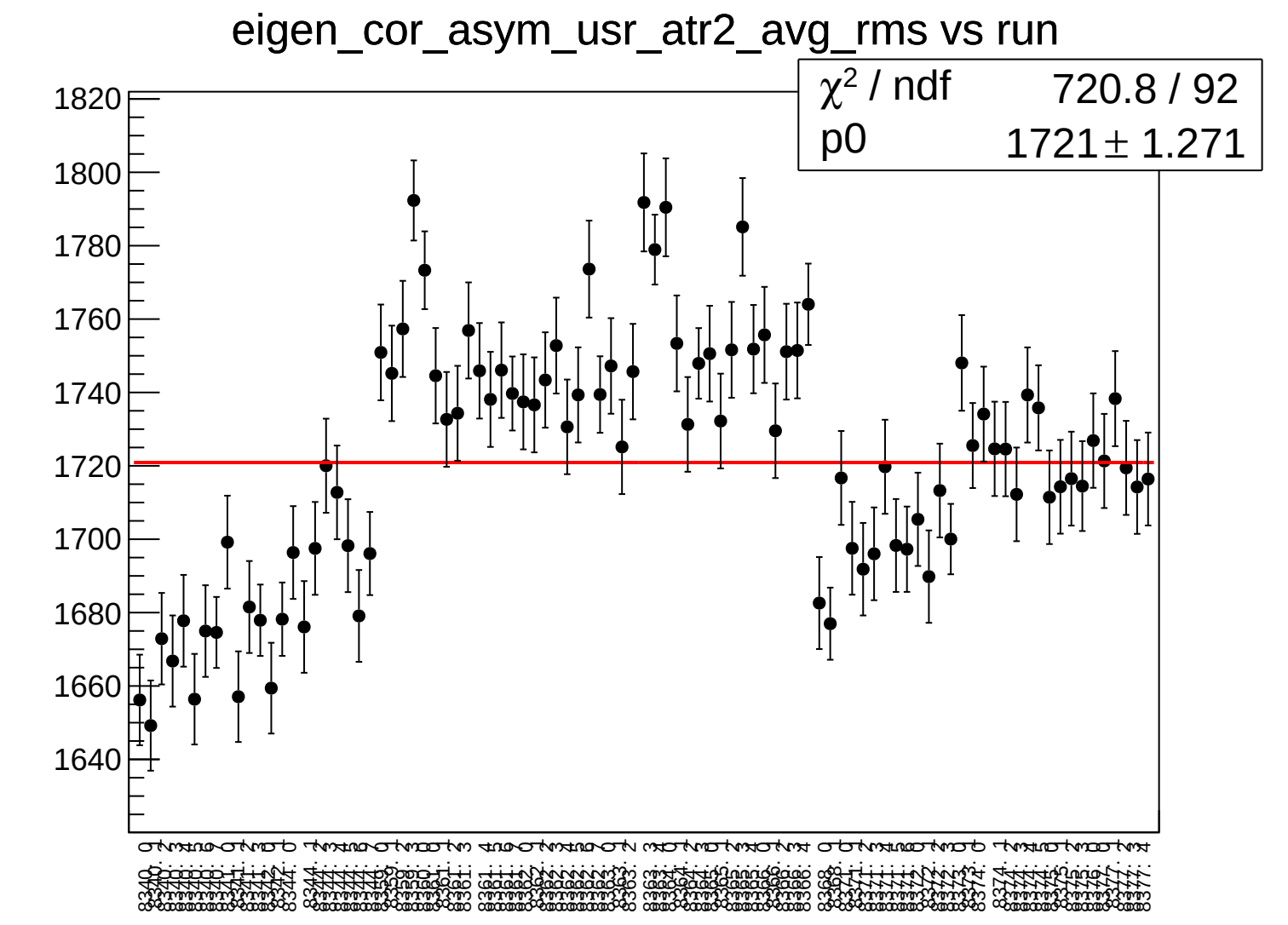

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 103.5 / 92
p0 −9215 ± 8467
pull
Entries 93
Mean −289.7
Std Dev 0

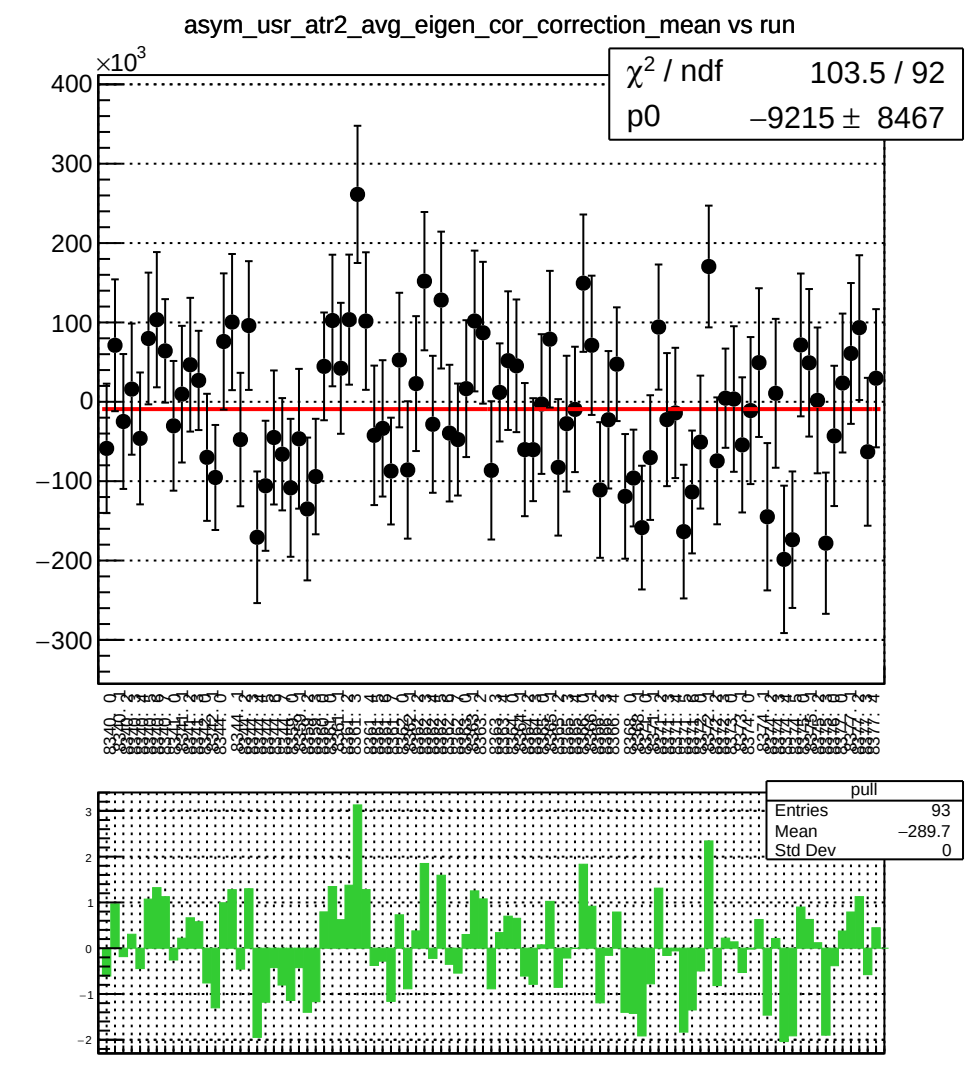

pull1D
Entries 93
Mean 0.01134
Std Dev 1.055

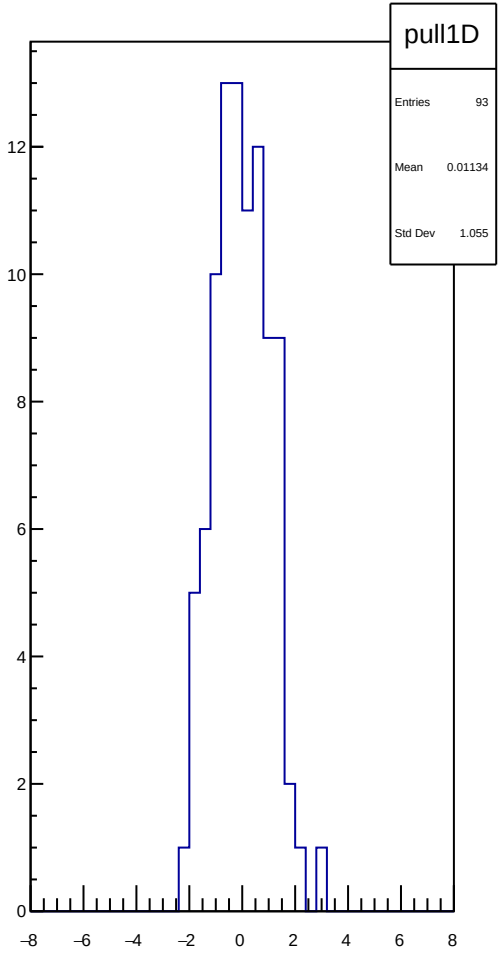

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 4139 / 92
p0 8098 ± 5.987
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

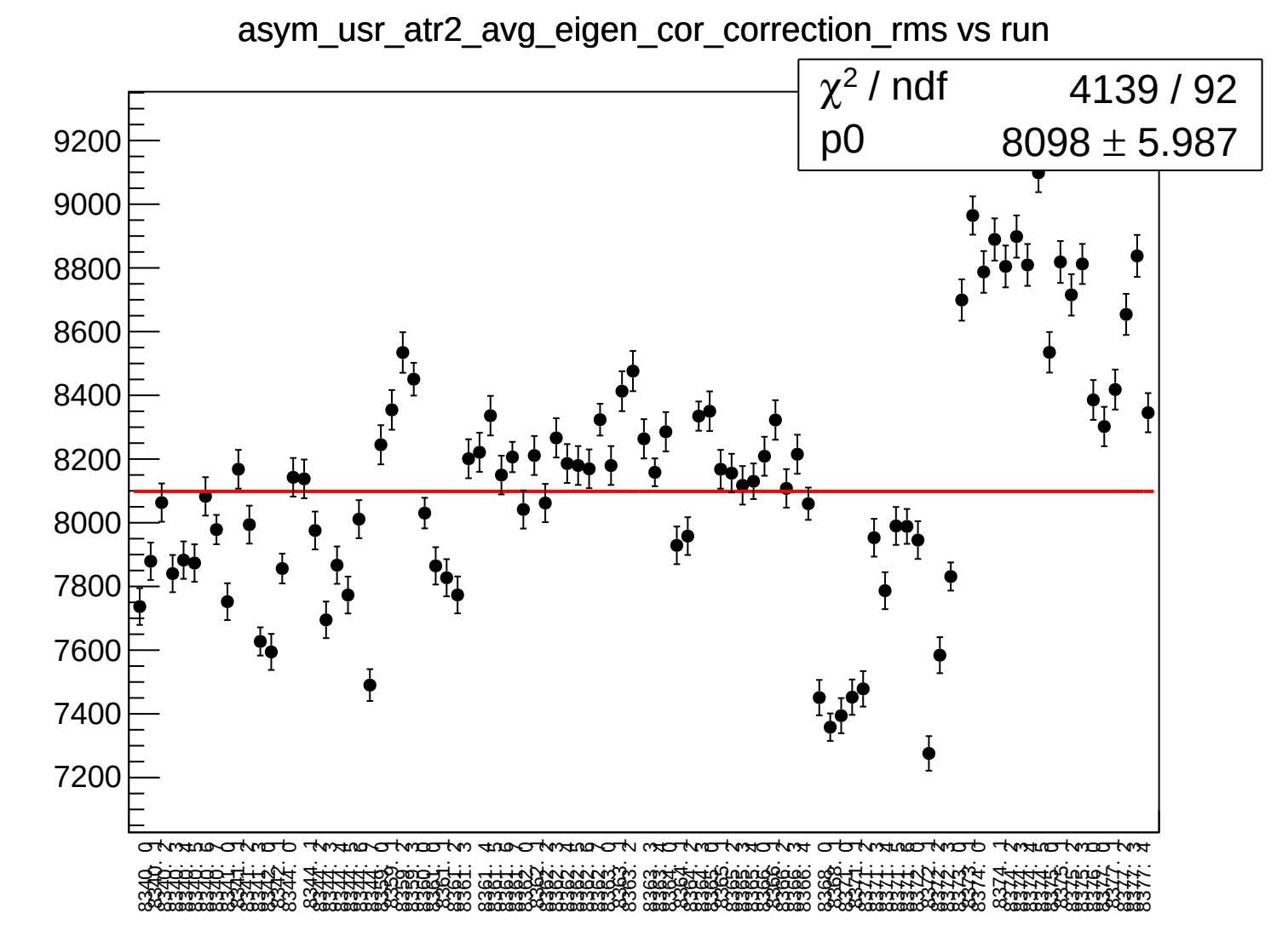

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 70.87 / 92
p0 −140.1± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −189.3
Std Dev 0
2
1
0
−1
−2

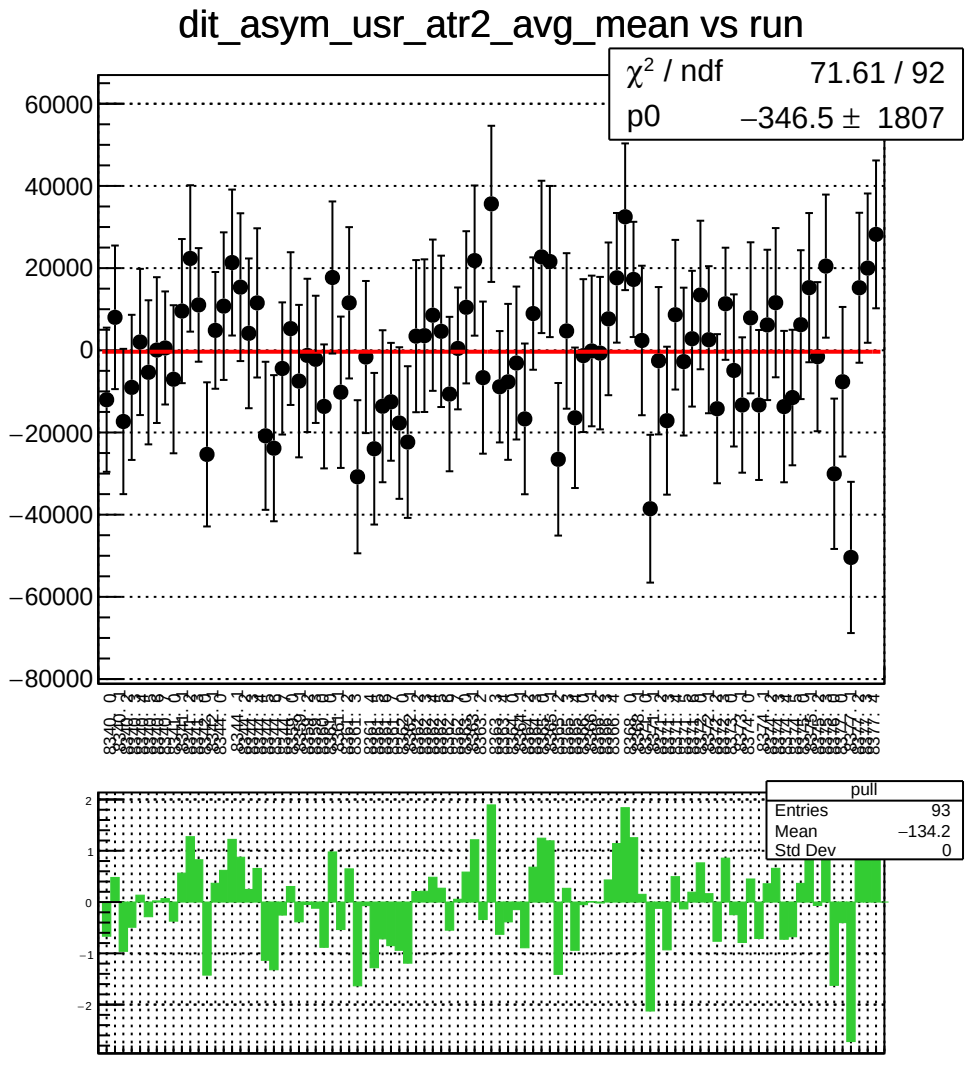

pull1D
Entries 93
Mean −0.006597
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

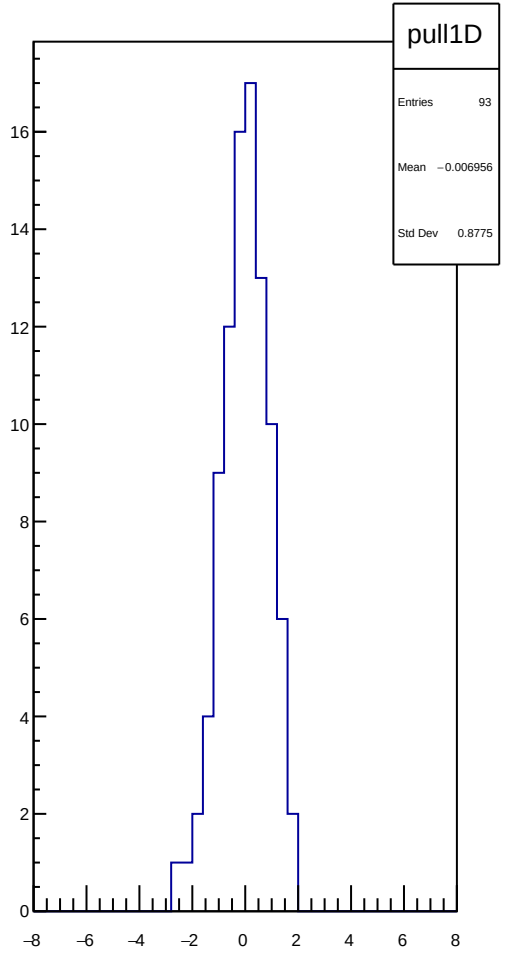

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 720.8 / 92
p0 1721 ± 1.271
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

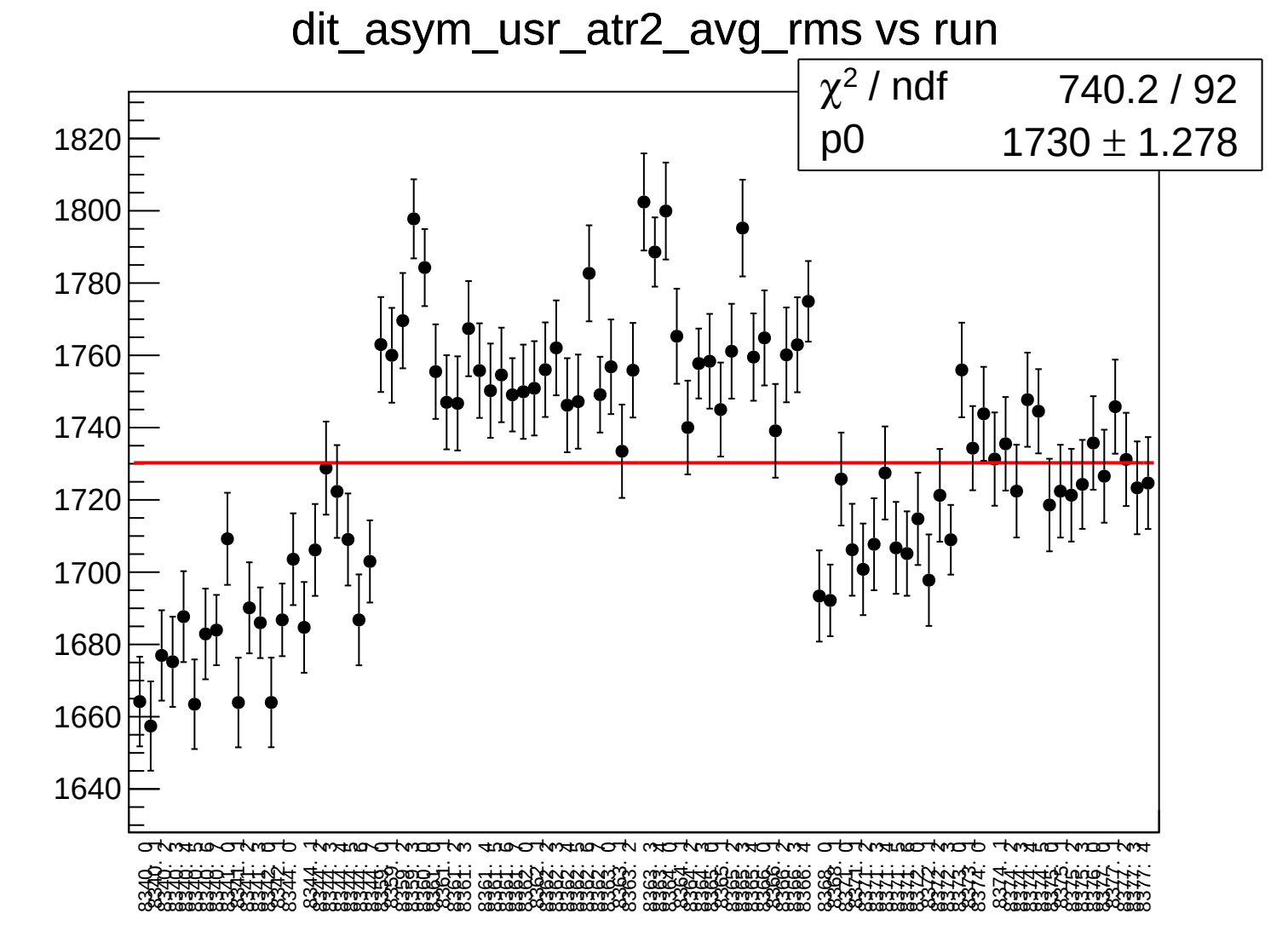

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
χ² / ndf 103.5 / 92
p0 −9215 ± 8467
pull
Entries 93
Mean −289.7
Std Dev 0
3
2
1
0
−1
−2

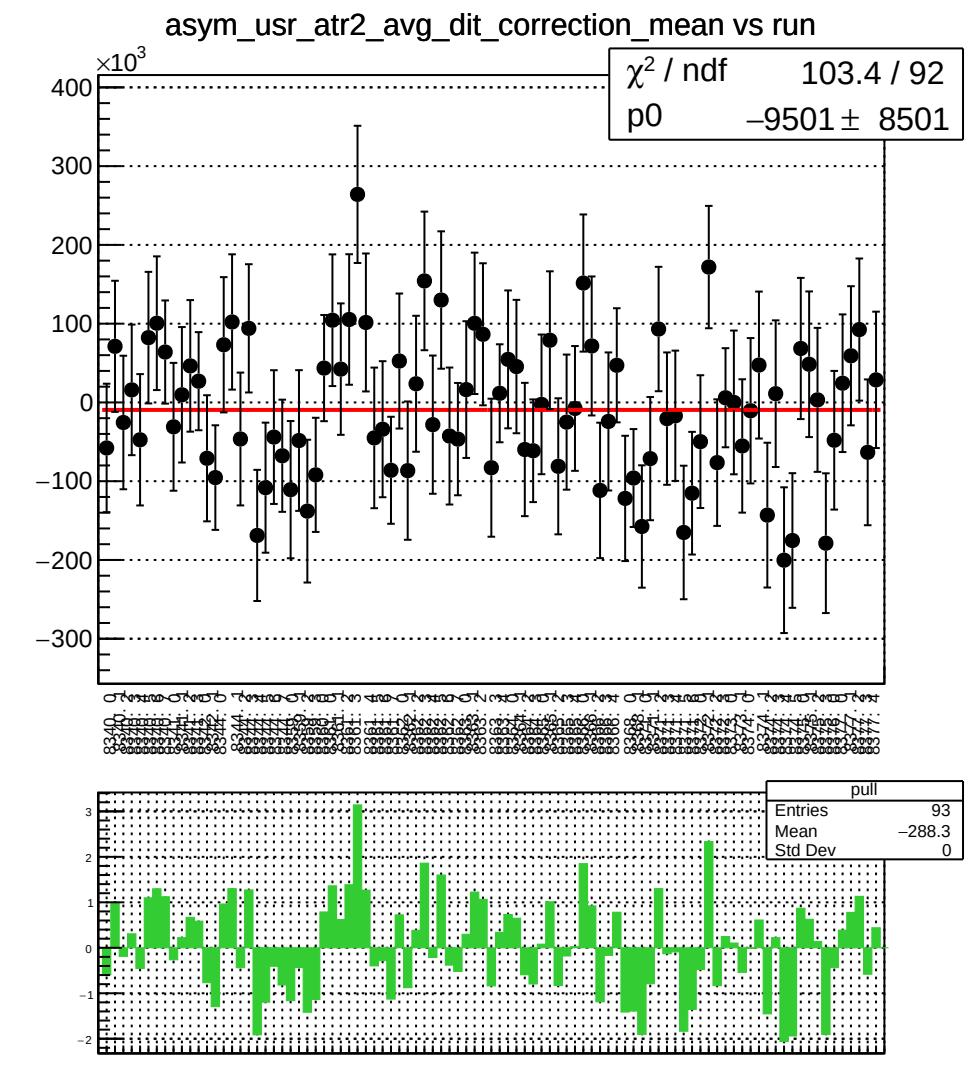

pull1D
Entries 93
Mean 0.01134
Std Dev 1.055
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

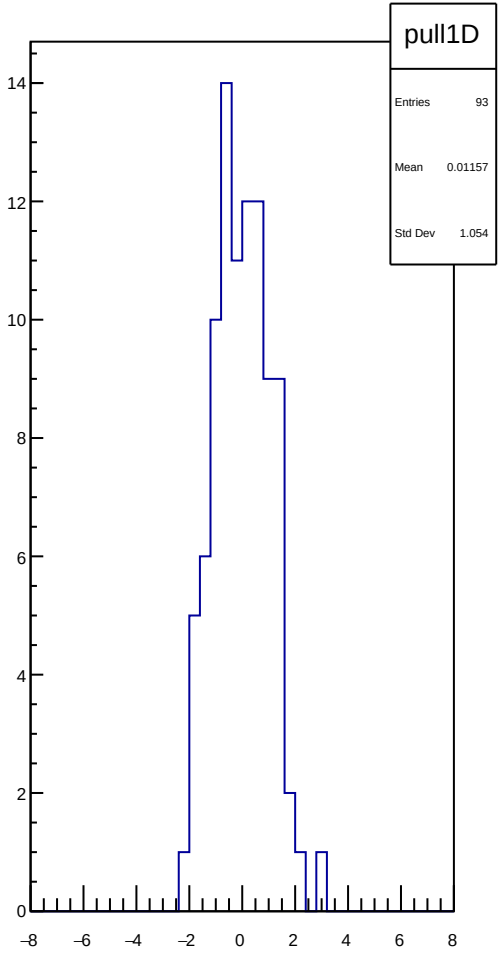

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4139 / 92
p0 8098 ± 5.987
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

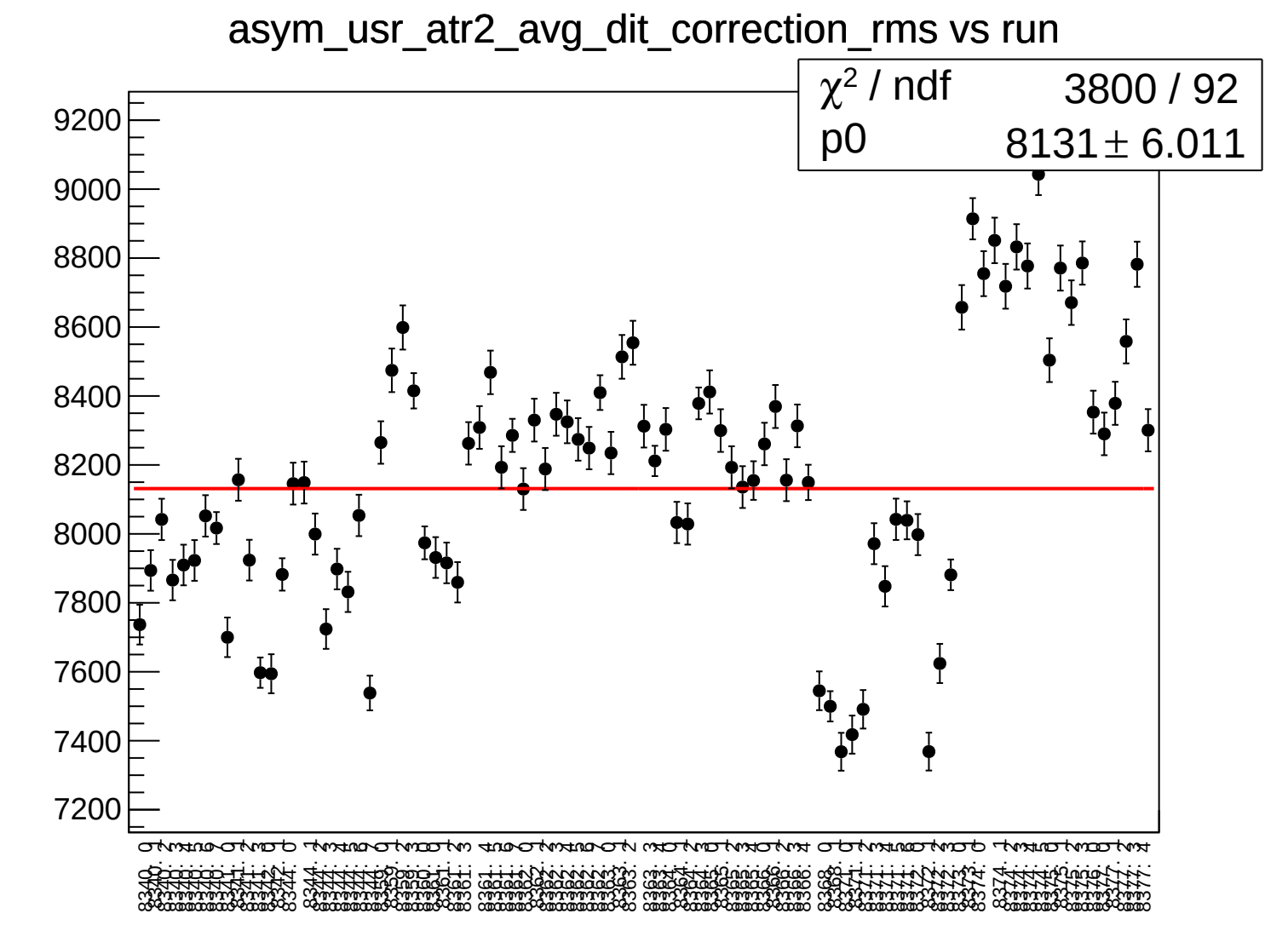

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.61 / 92
p0 −346.5 ± 1807
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −134.2
Std Dev 0
2
1
0
−1
−2

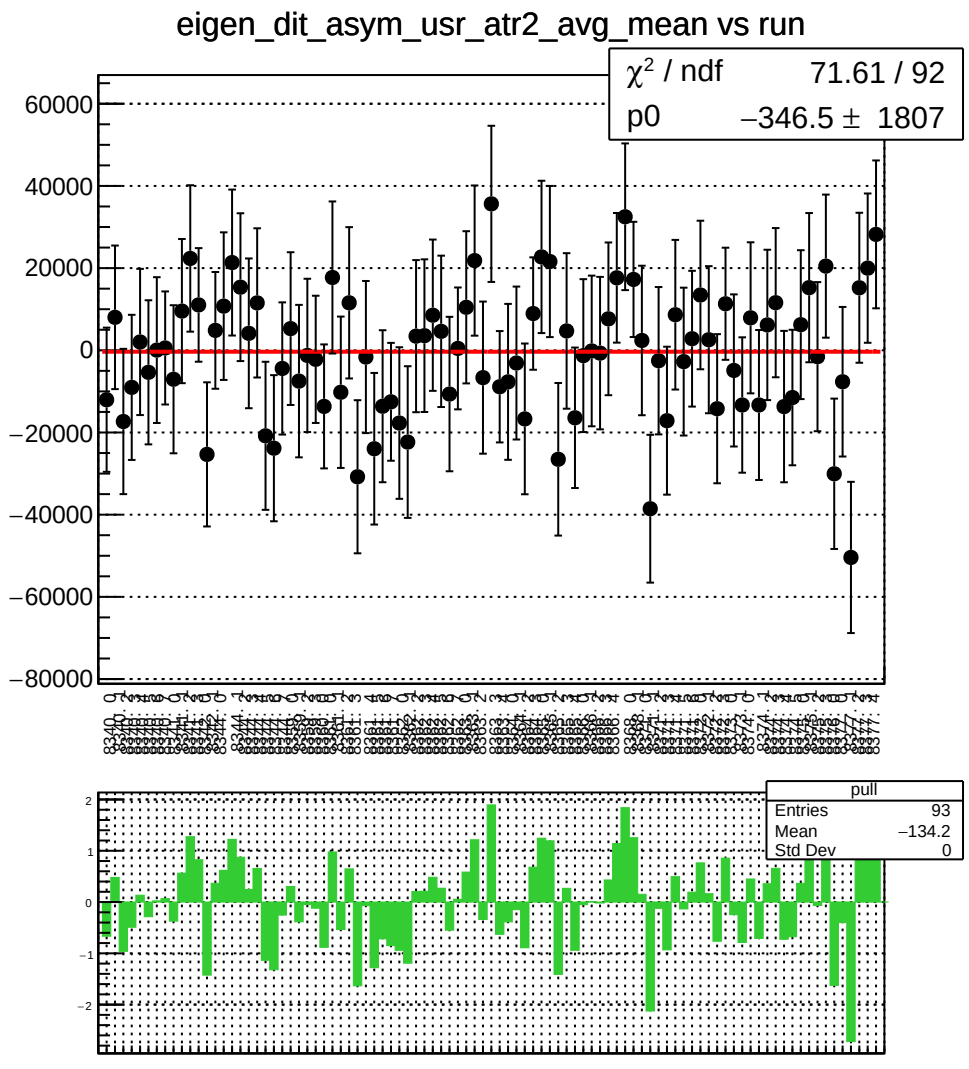

pull1D
Entries 93
Mean −0.006956
Std Dev 0.8775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

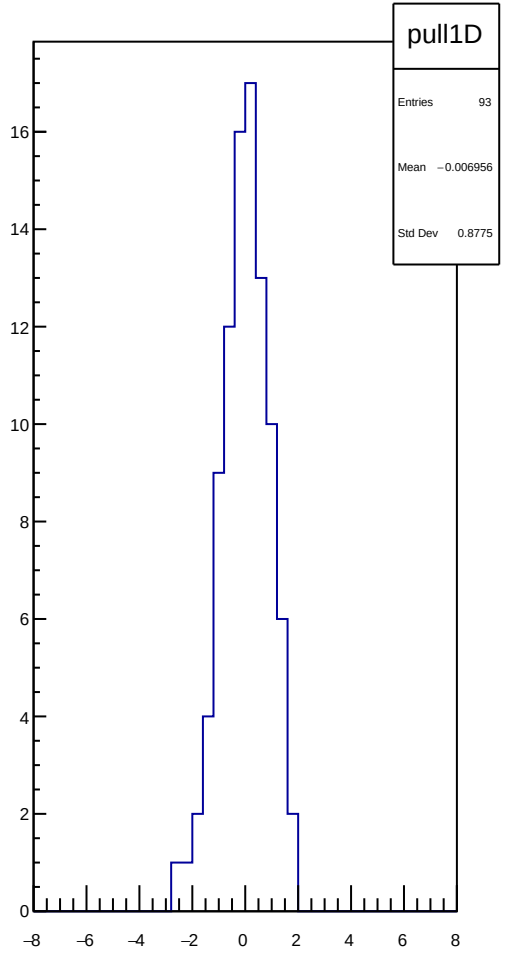

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 740.2 / 92
p0 1730 ± 1.278
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

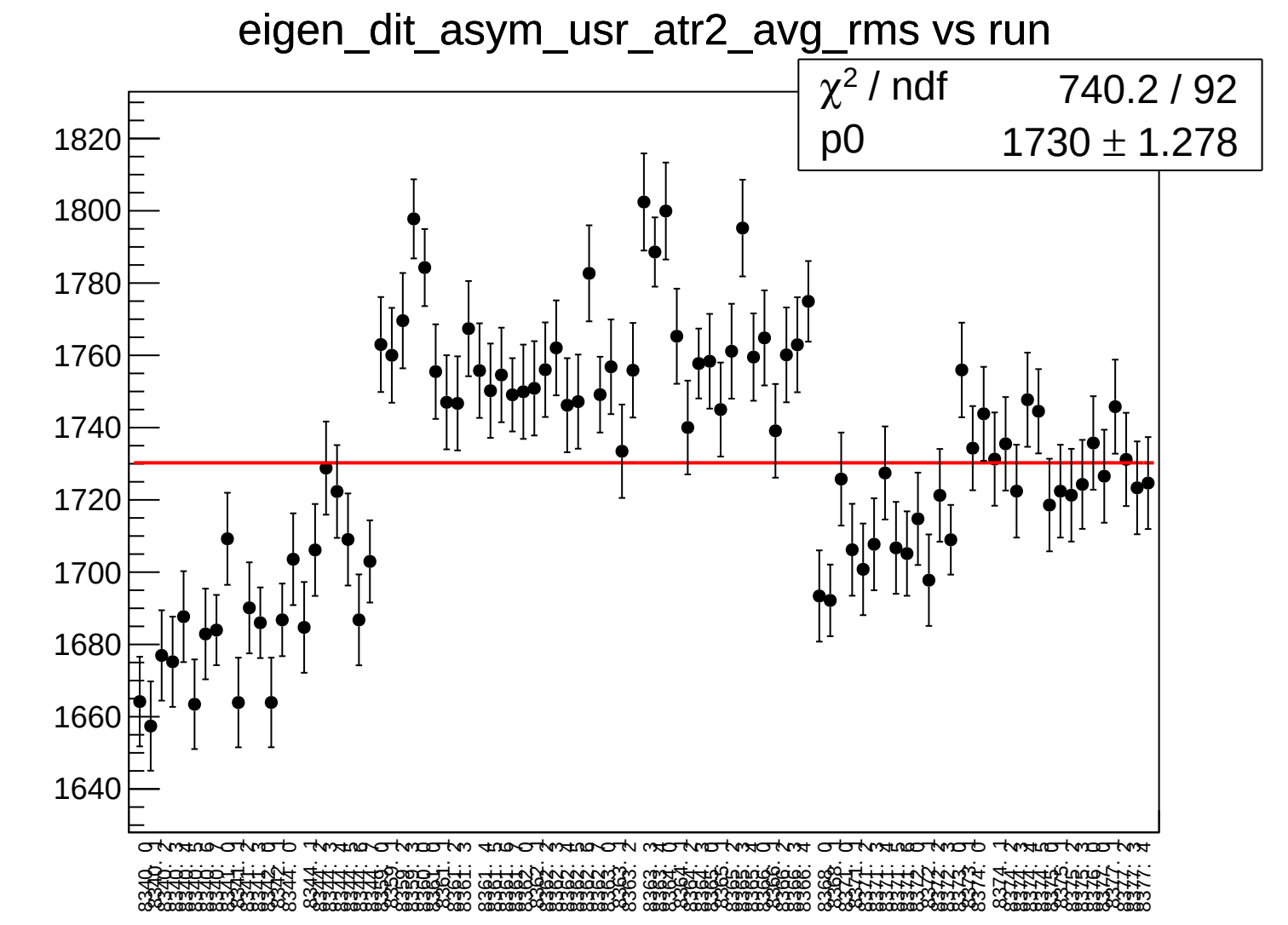

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 103.4 / 92
p0 −9501 ± 8501
pull
Entries 93
Mean −288.3
Std Dev 0

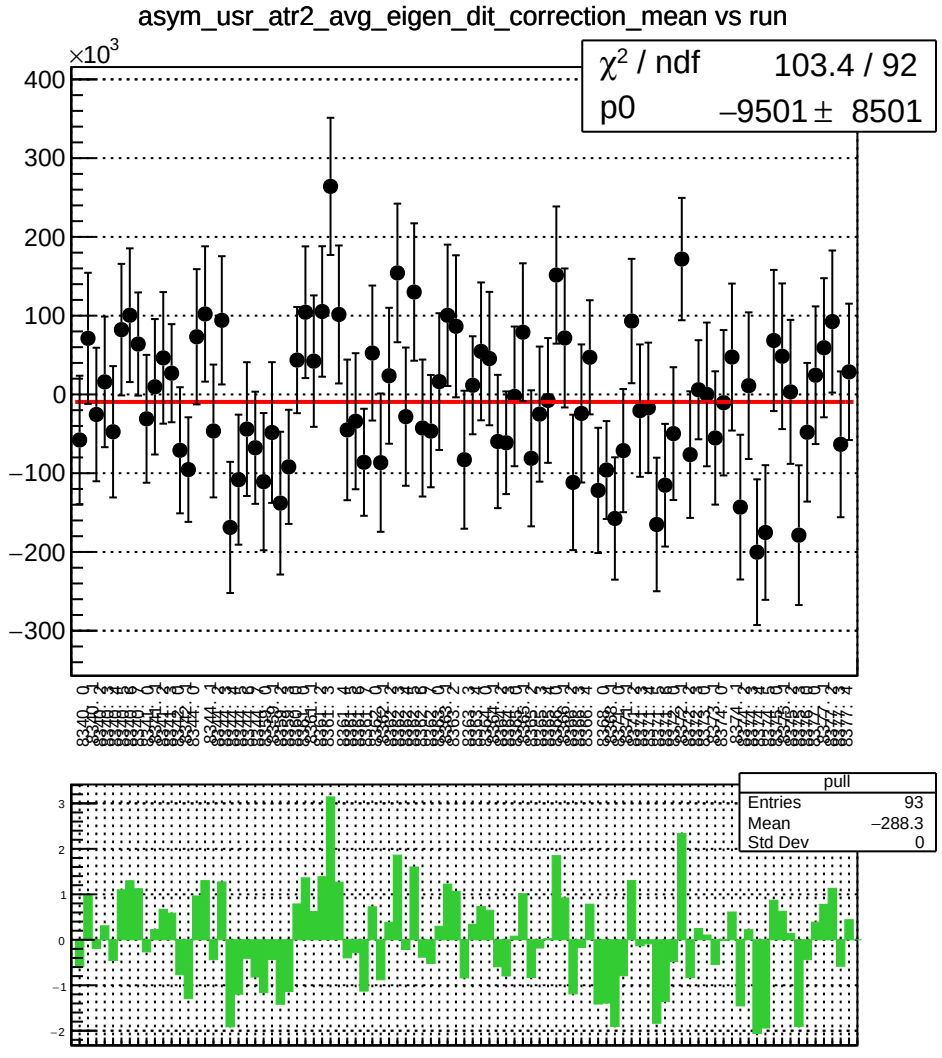

pull1D
Entries 93
Mean 0.01157
Std Dev 1.054

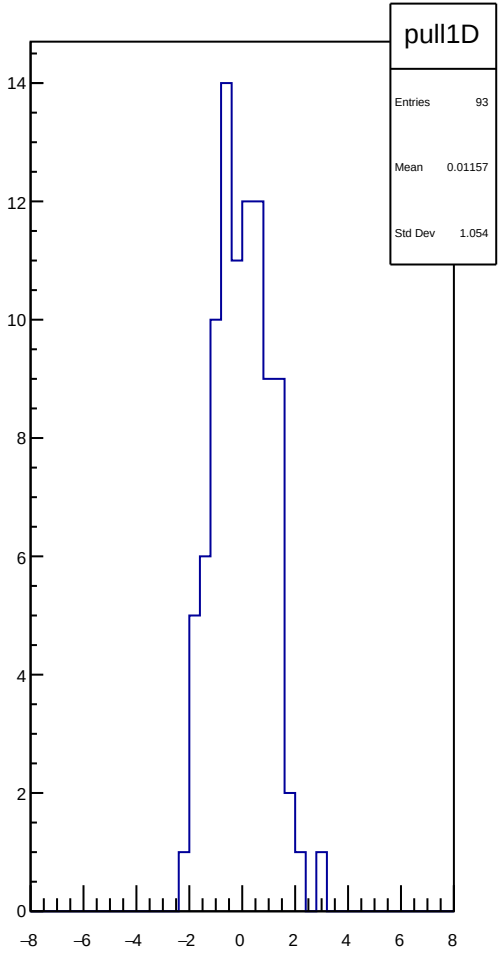

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3800 / 92
p0 8131 ± 6.011
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

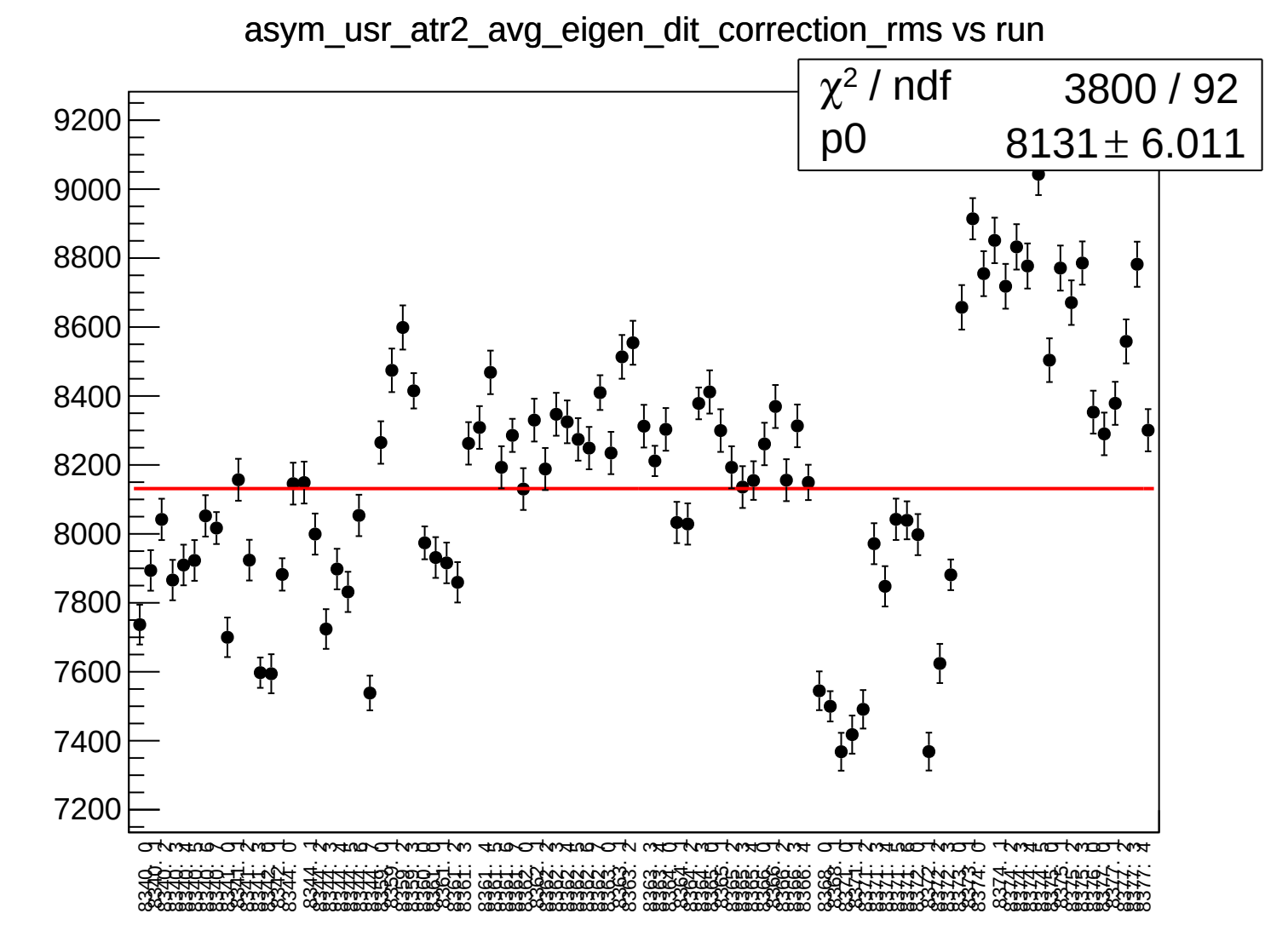

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 71.61 / 92
p0 −346.5 ± 1807
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −134.2
Std Dev 0
2
1
0
−1
−2

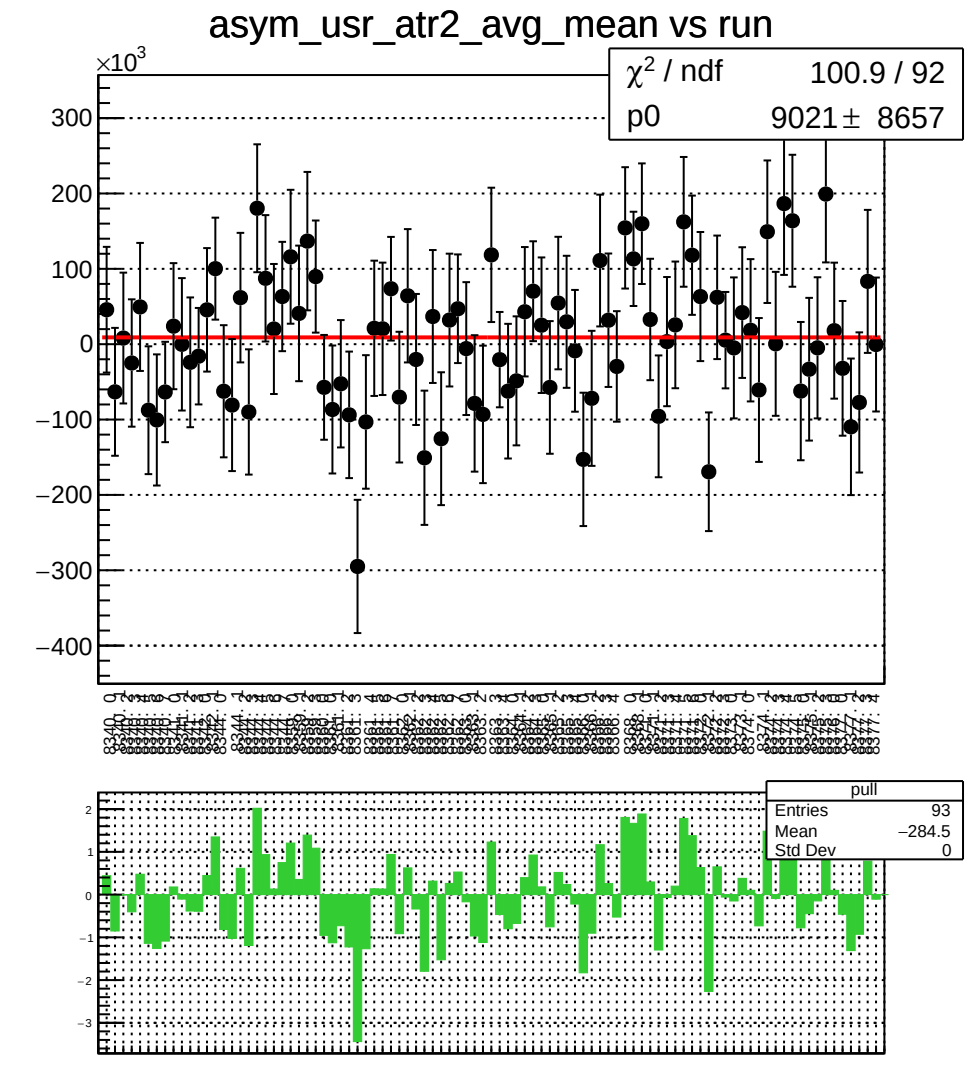

pull1D
Entries 93
Mean −0.006956
Std Dev 0.8775
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

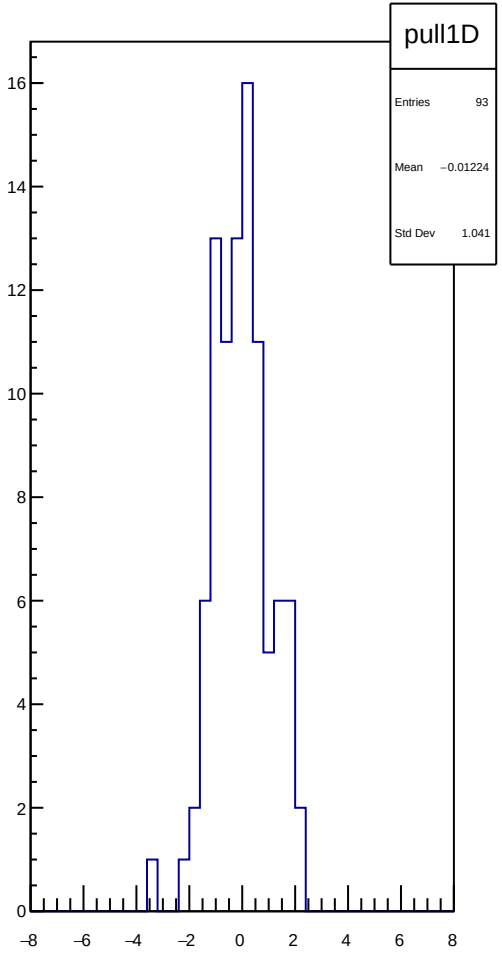

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 740.2 / 92
p0 1730 ± 1.278
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640

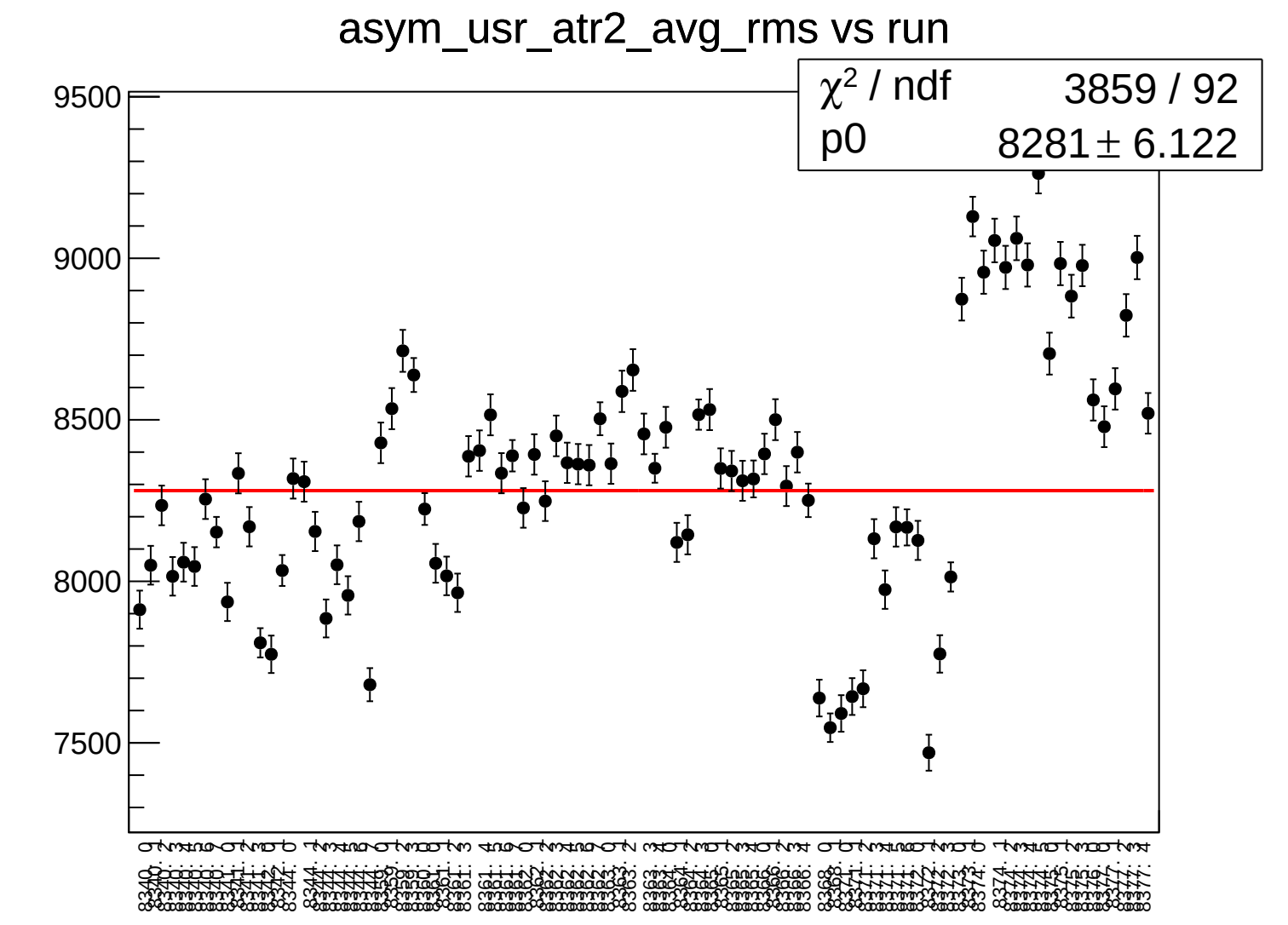

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.4 / 92
p0 −9501 ± 8501
pull
Entries 93
Mean −288.3
Std Dev 0

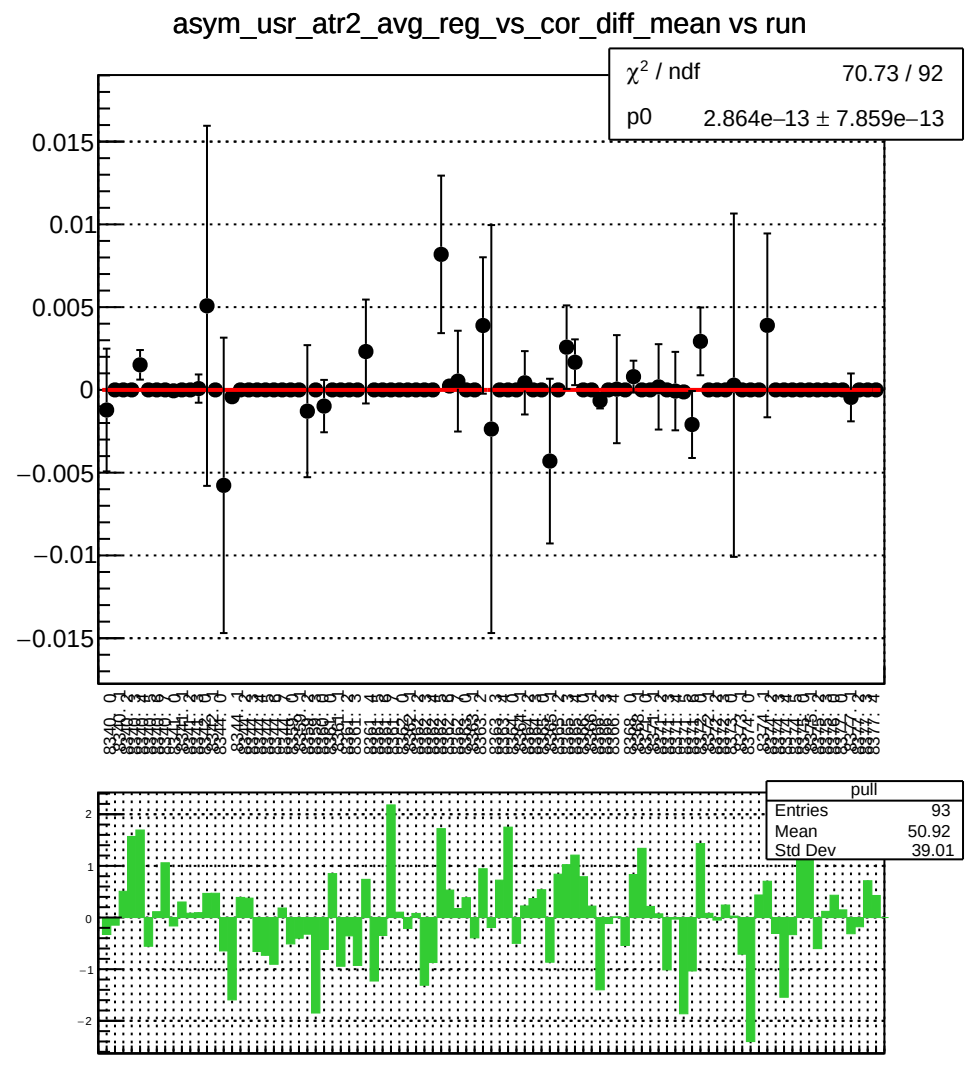

pull1D
Entries 93
Mean 0.01157
Std Dev 1.054

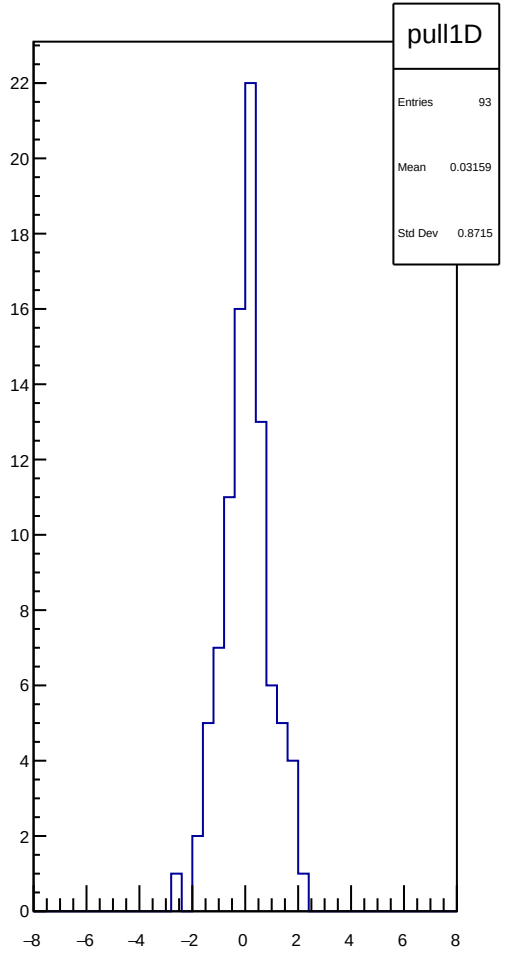

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3800 / 92
p0 8131 ± 6.011
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

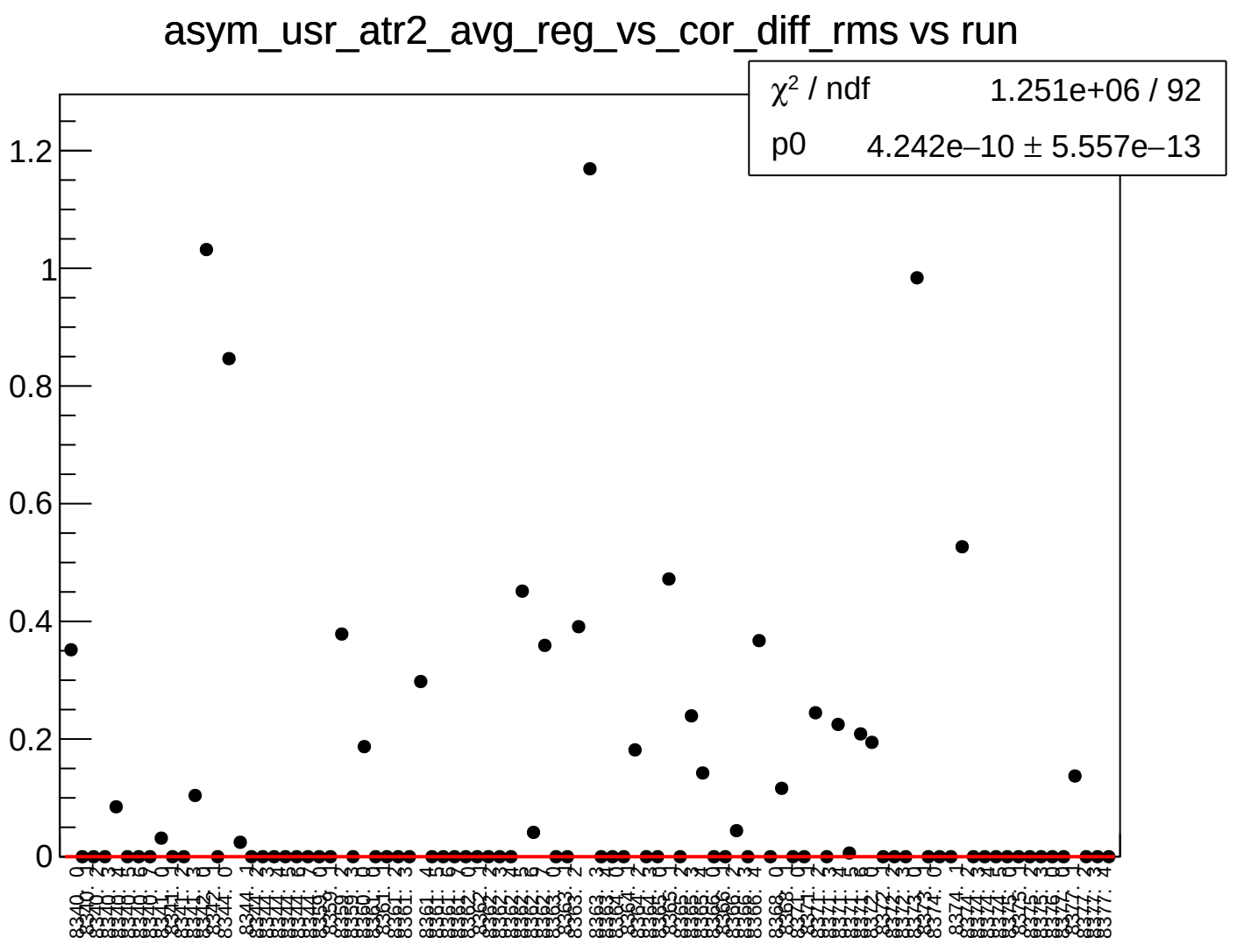

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 100.9 / 92
p0 9021 ± 8657
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −284.5
Std Dev 0
2
1
0
−1
−2
−3

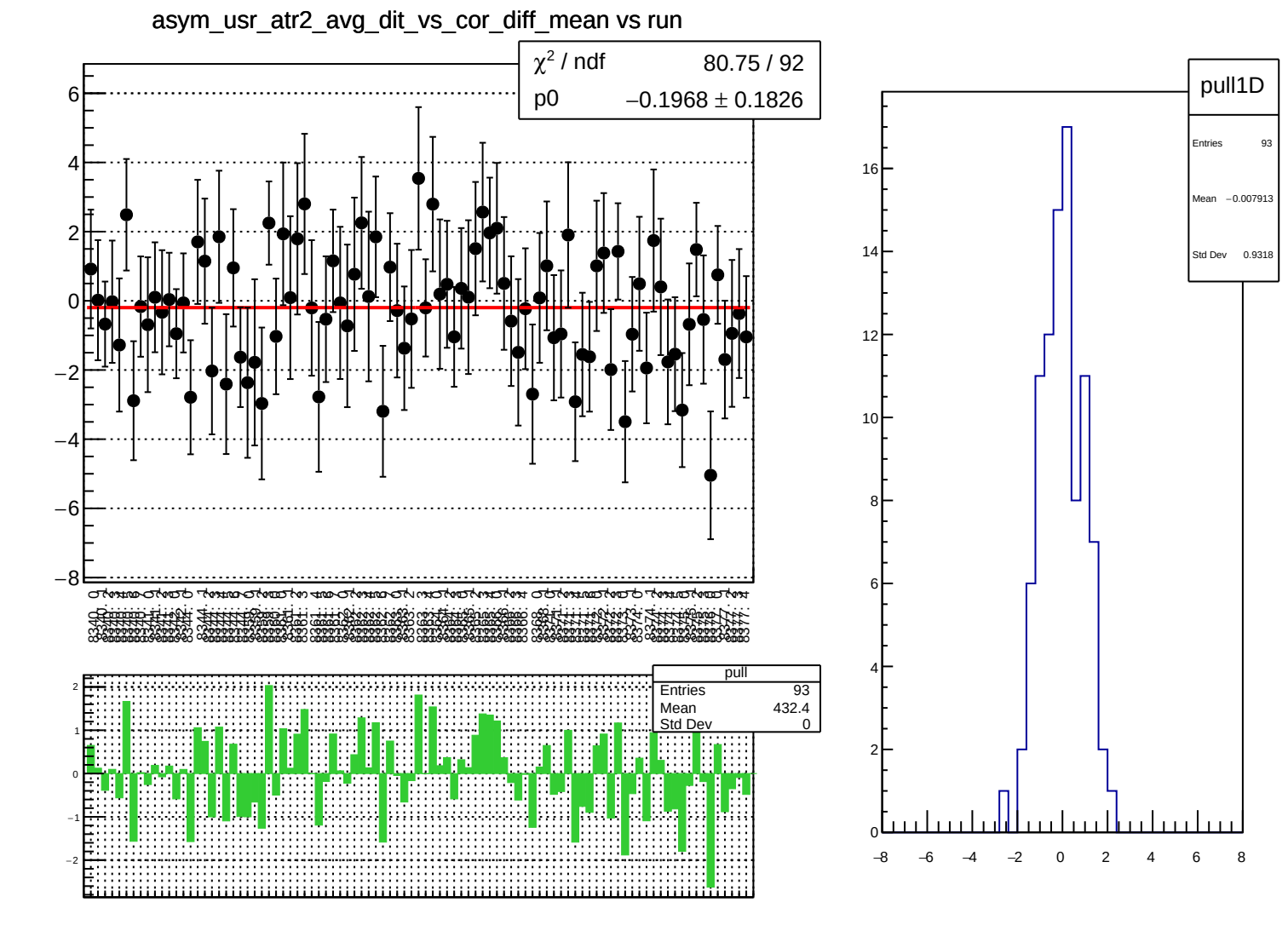

pull1D
Entries 93
Mean −0.01224
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

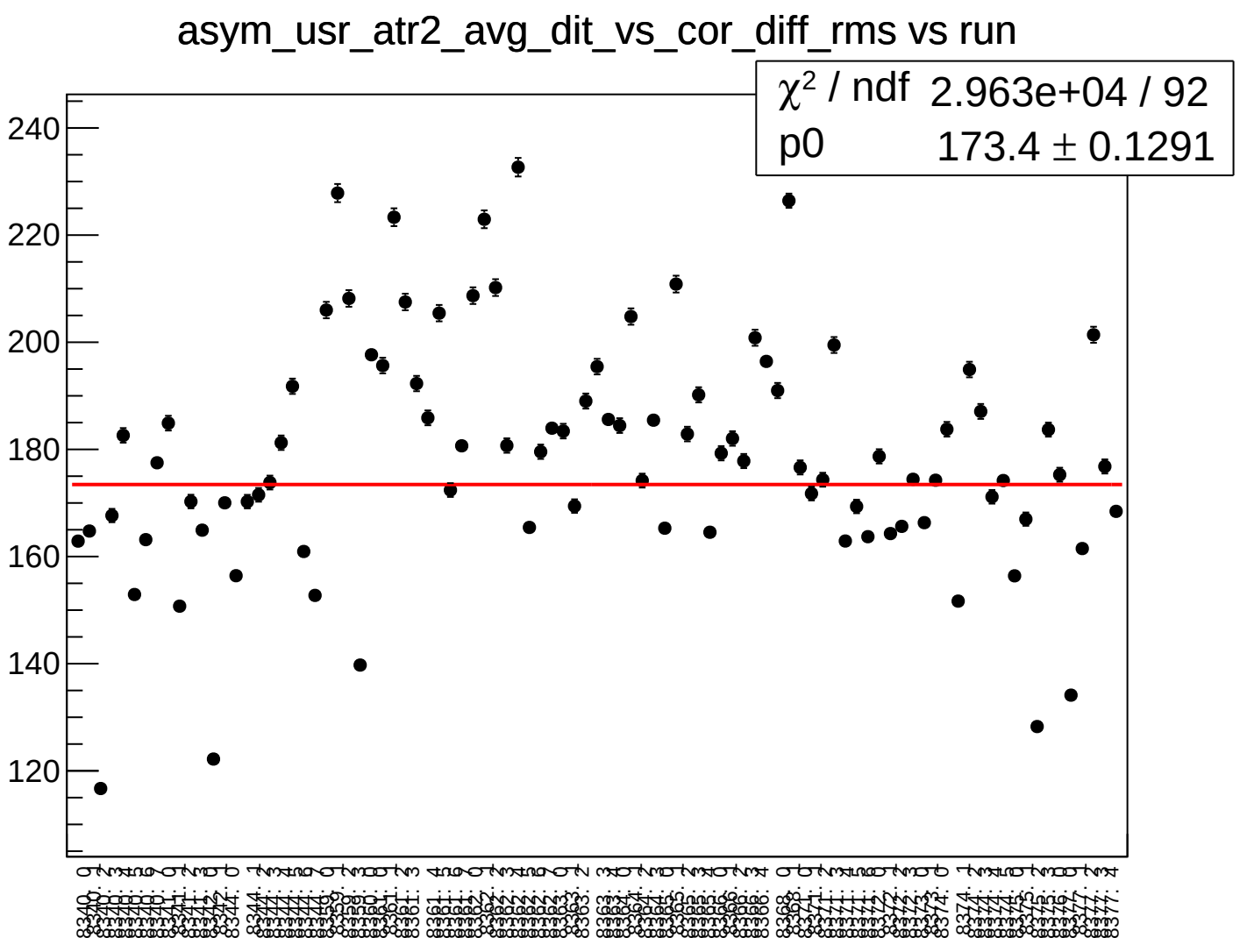

asym_usr_atr2_avg_rms vs run
χ² / ndf 3859 / 92
p0 8281 ± 6.122
9500
9000
8500
8000
7500

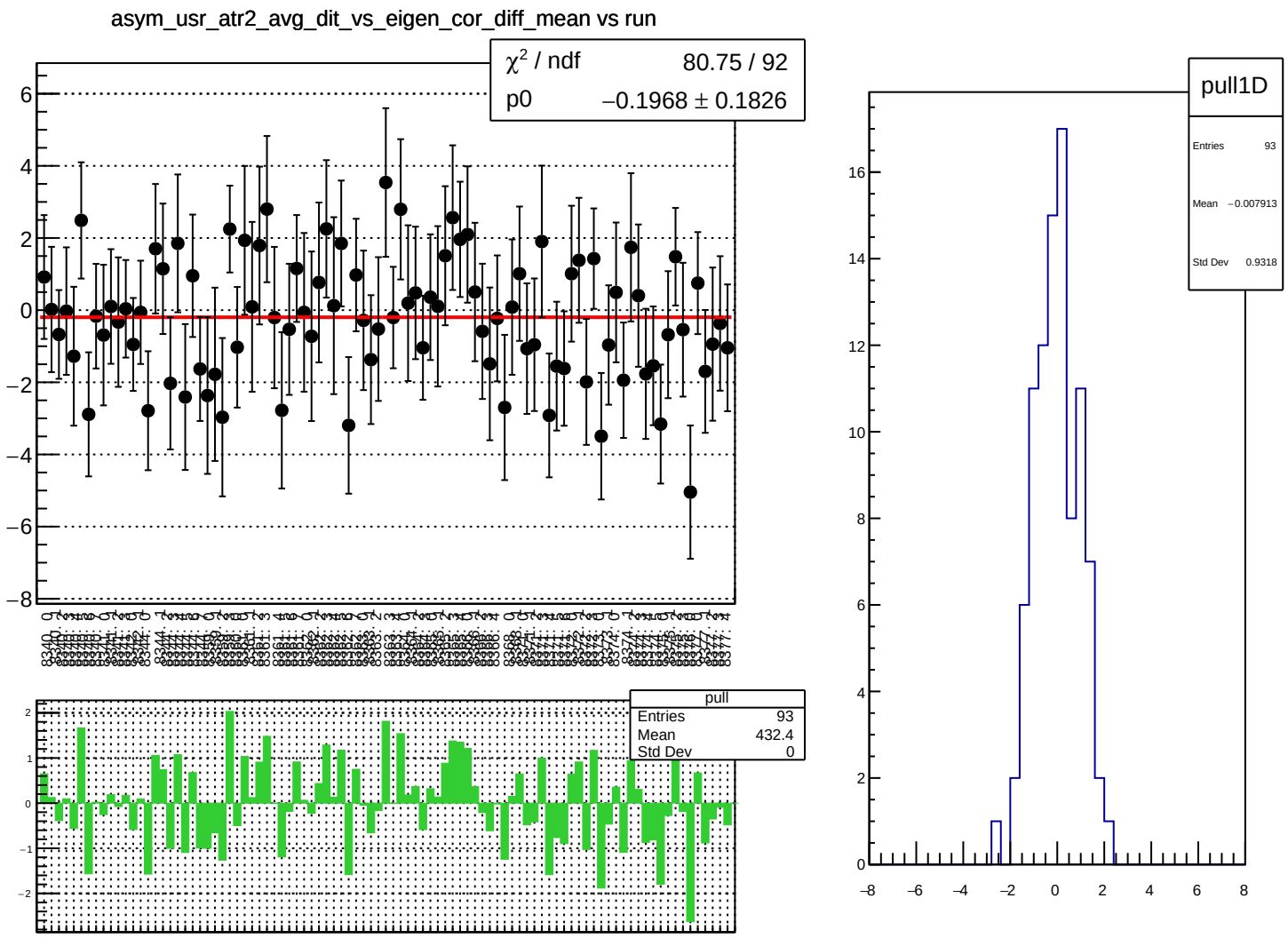

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.73 / 92
p0 2.864e−13 ± 7.859e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 50.92
Std Dev 39.01
2
1
0
−1
−2

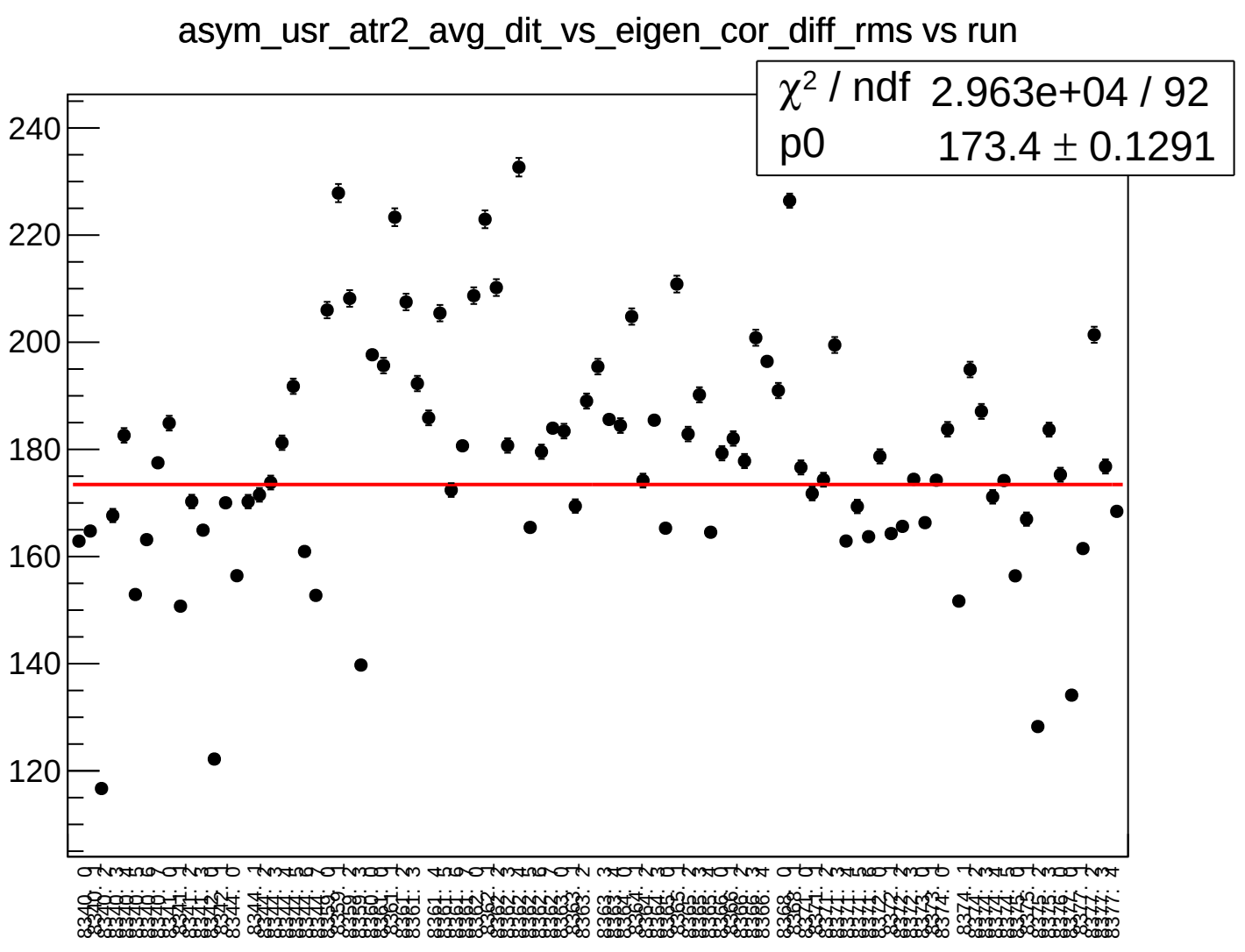

pull1D
Entries 93
Mean 0.03159
Std Dev 0.8715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

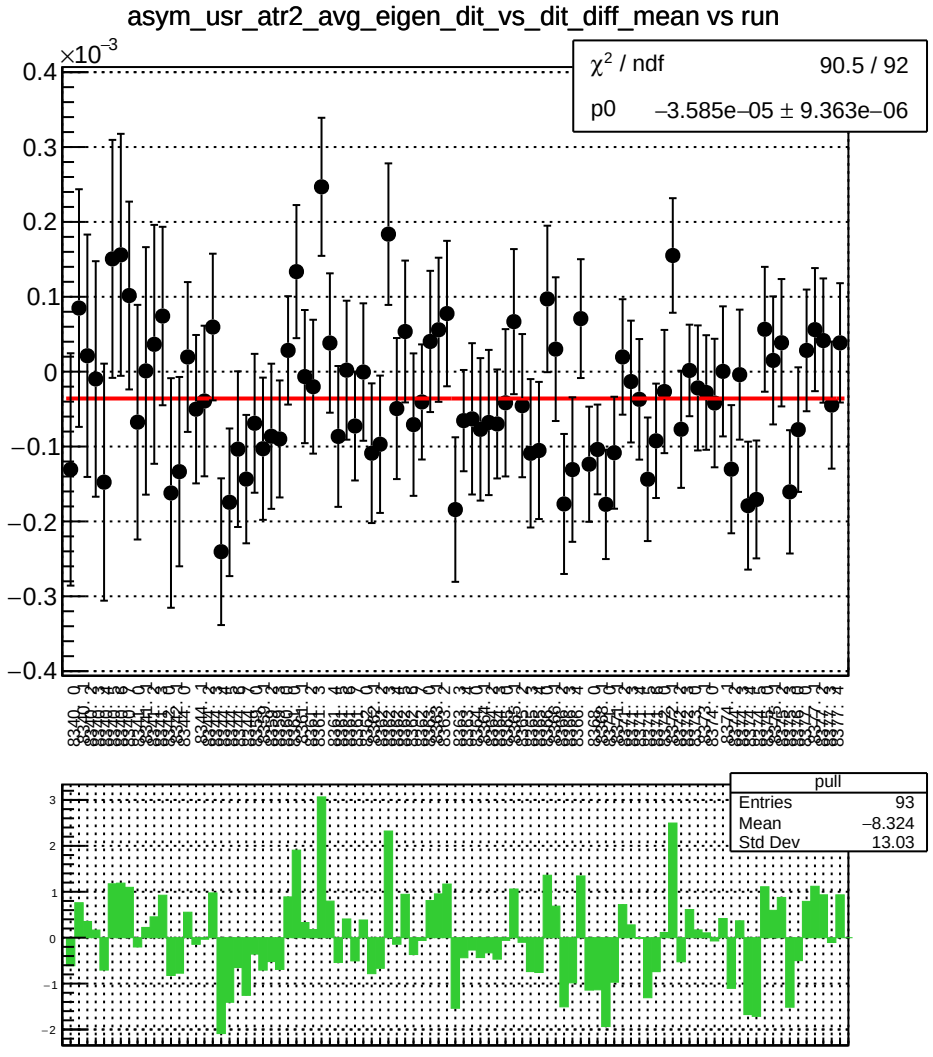

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.251e+06 / 92
p0 4.242e−10 ± 5.557e−13
1.2
1
0.8
0.6
0.4
0.2
0

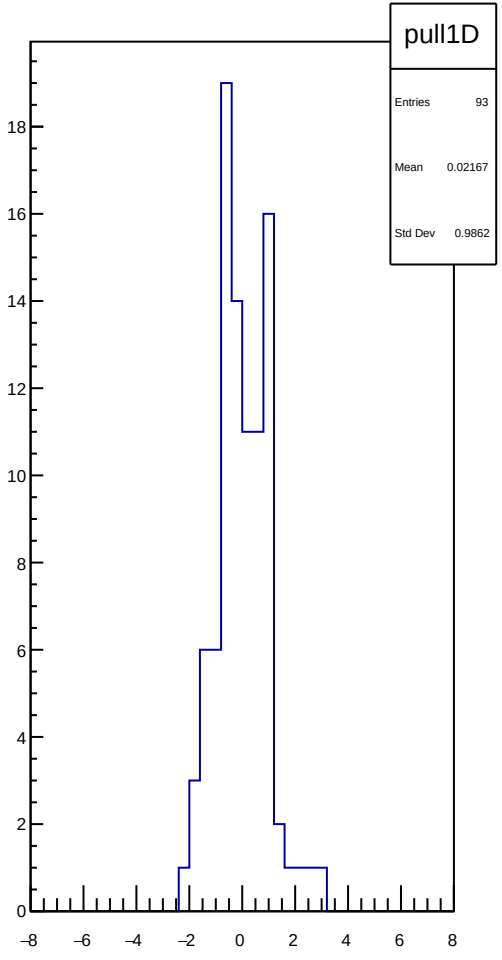

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 92
p0 −0.1968 ± 0.1826
pull
Entries 93
Mean 432.4
Std Dev 0
pull1D
Entries 93
Mean −0.007913
Std Dev 0.9318

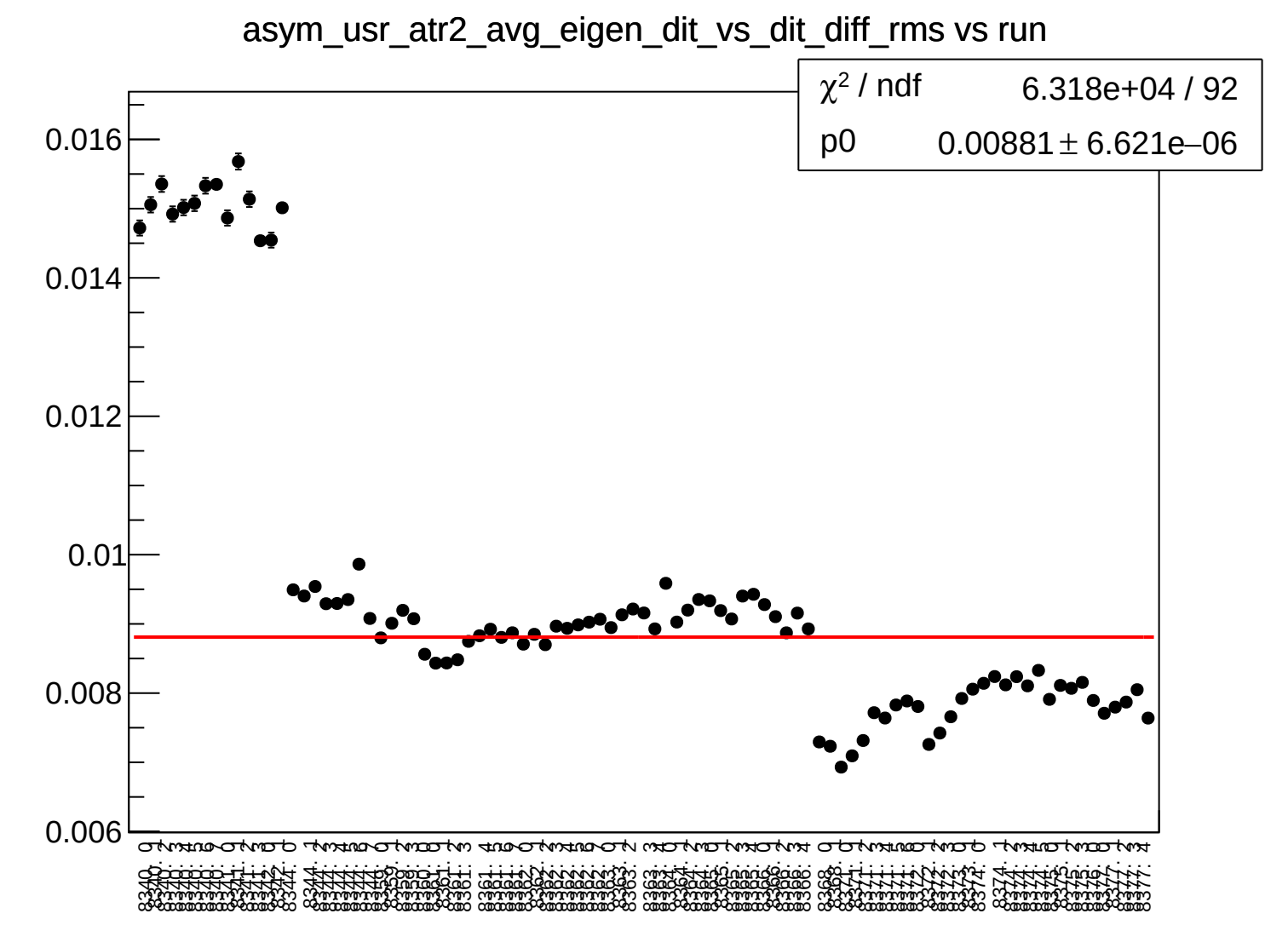

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 92
p0 173.4 ± 0.1291
240
220
200
180
160
140
120

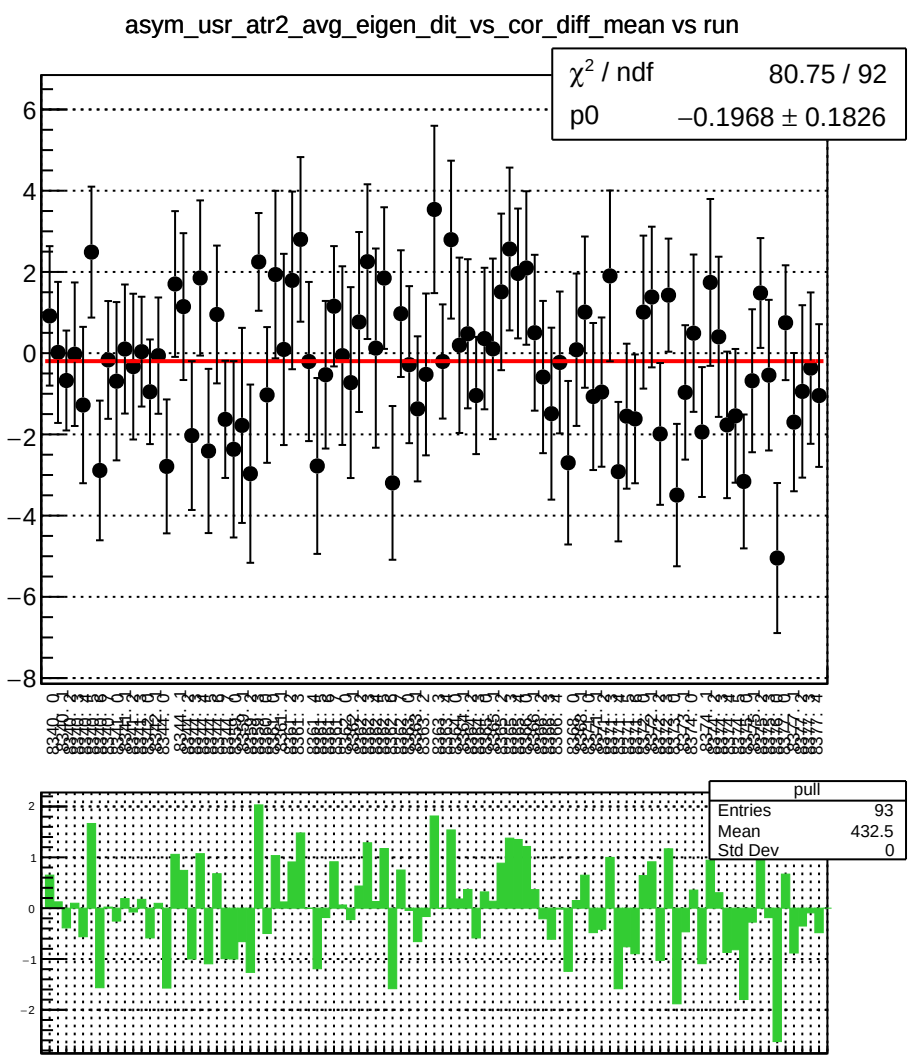

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 92
p0 −0.1968 ± 0.1826
pull
Entries 93
Mean 432.4
Std Dev 0
pull1D
Entries 93
Mean −0.007913
Std Dev 0.9318

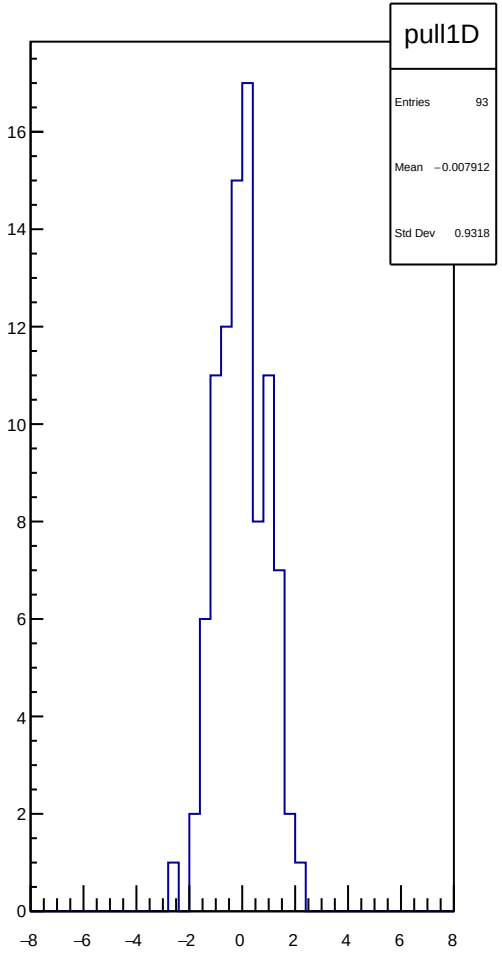

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 92
p0 173.4 ± 0.1291
240
220
200
180
160
140
120

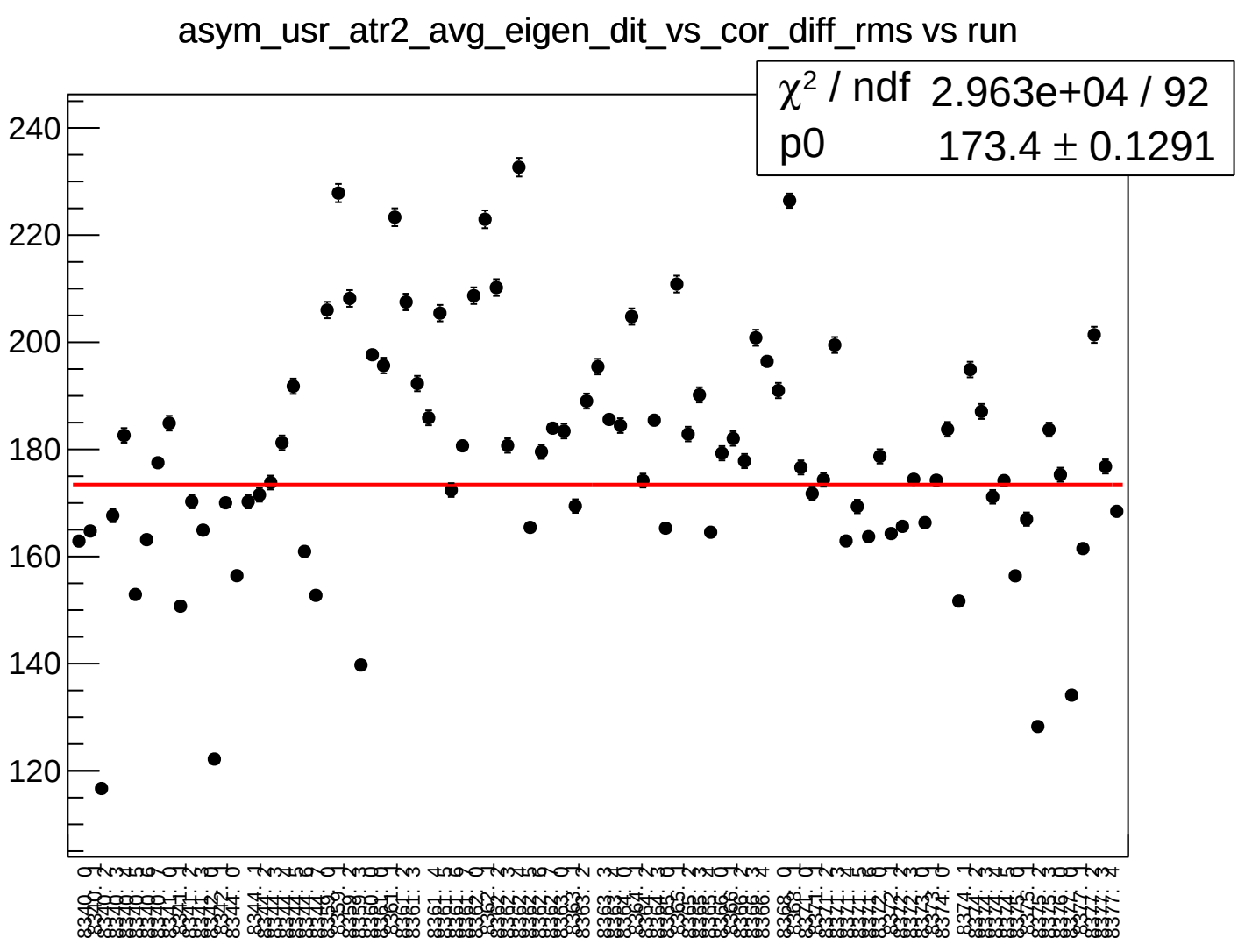

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.5 / 92
p0 −3.585e−05 ± 9.363e−06
pull
Entries 93
Mean −8.324
Std Dev 13.03

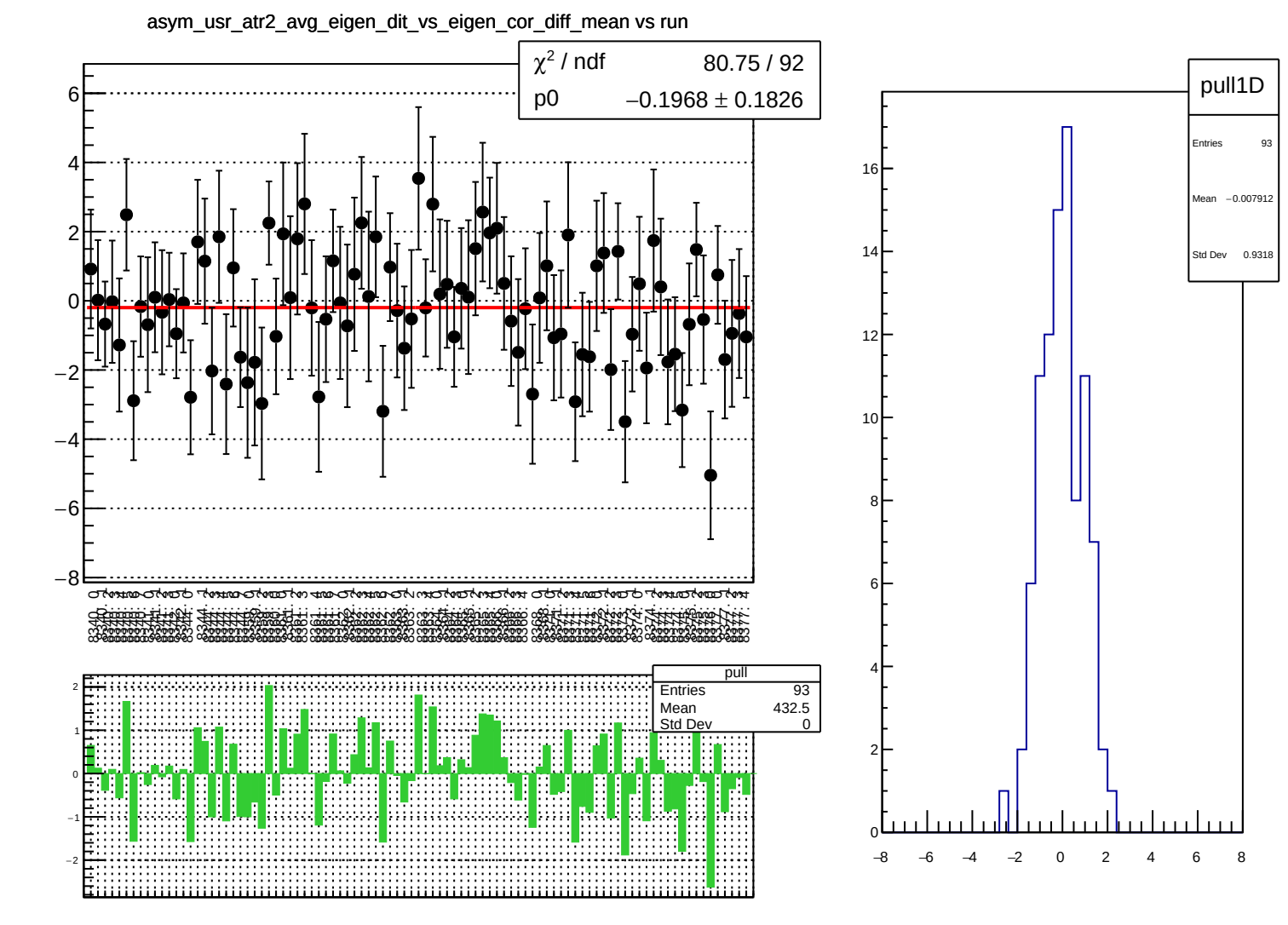

pull1D
Entries 93
Mean 0.02167
Std Dev 0.9862

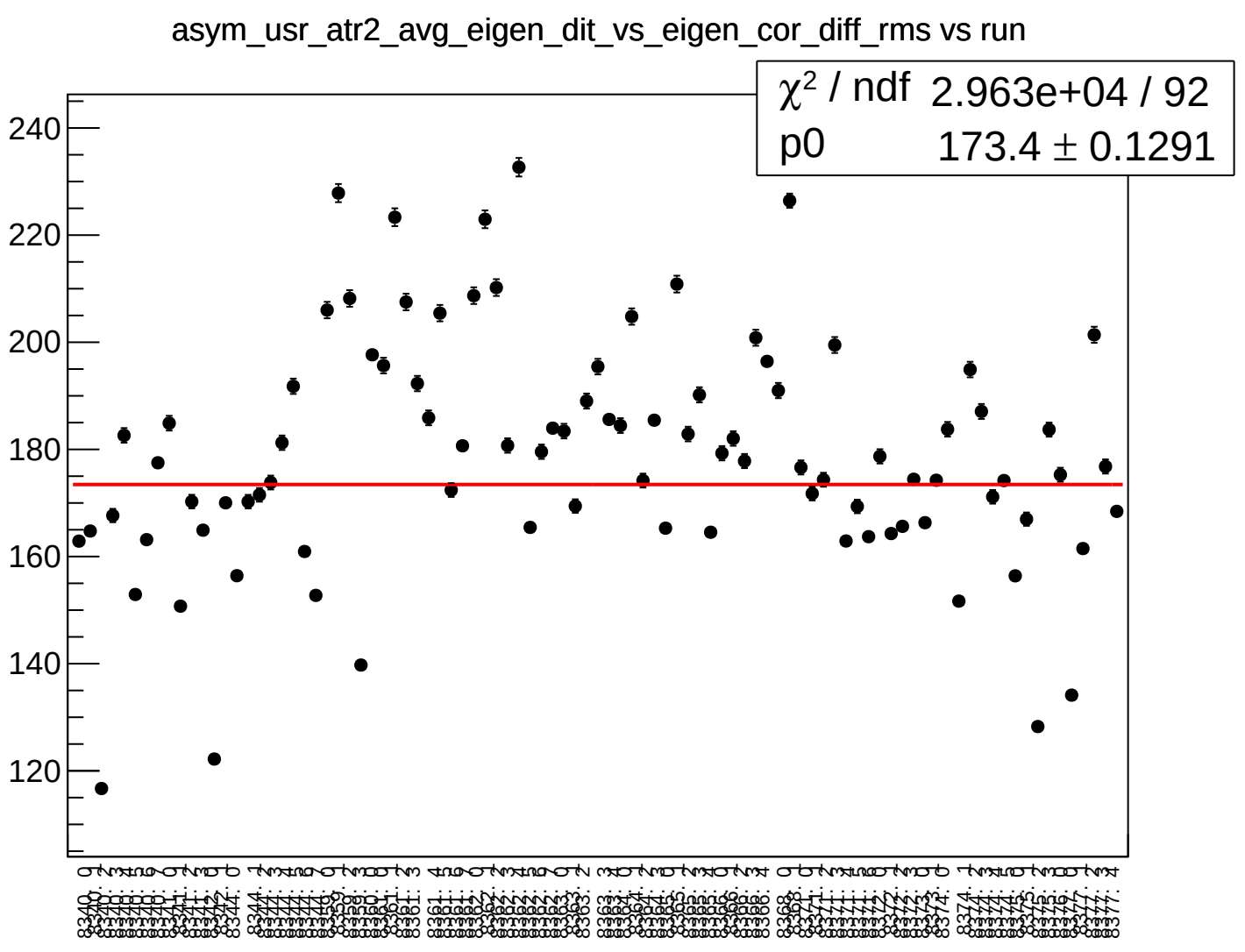

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.318e+04 / 92
p0 0.00881 ± 6.621e–06
0.016
0.014
0.012
0.01
0.008
0.006

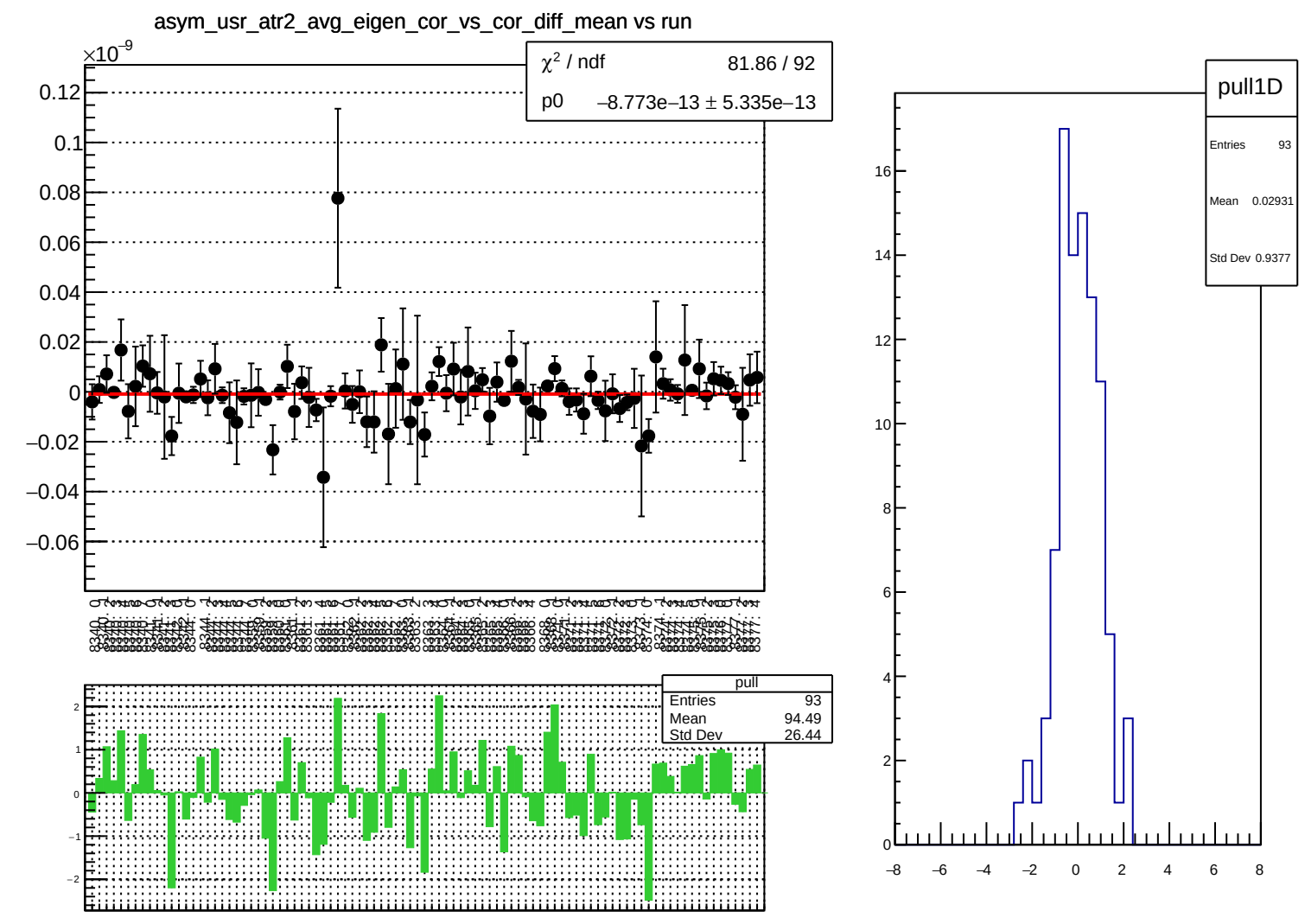

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 92
p0 −0.1968 ± 0.1826
pull
Entries 93
Mean 432.5
Std Dev 0

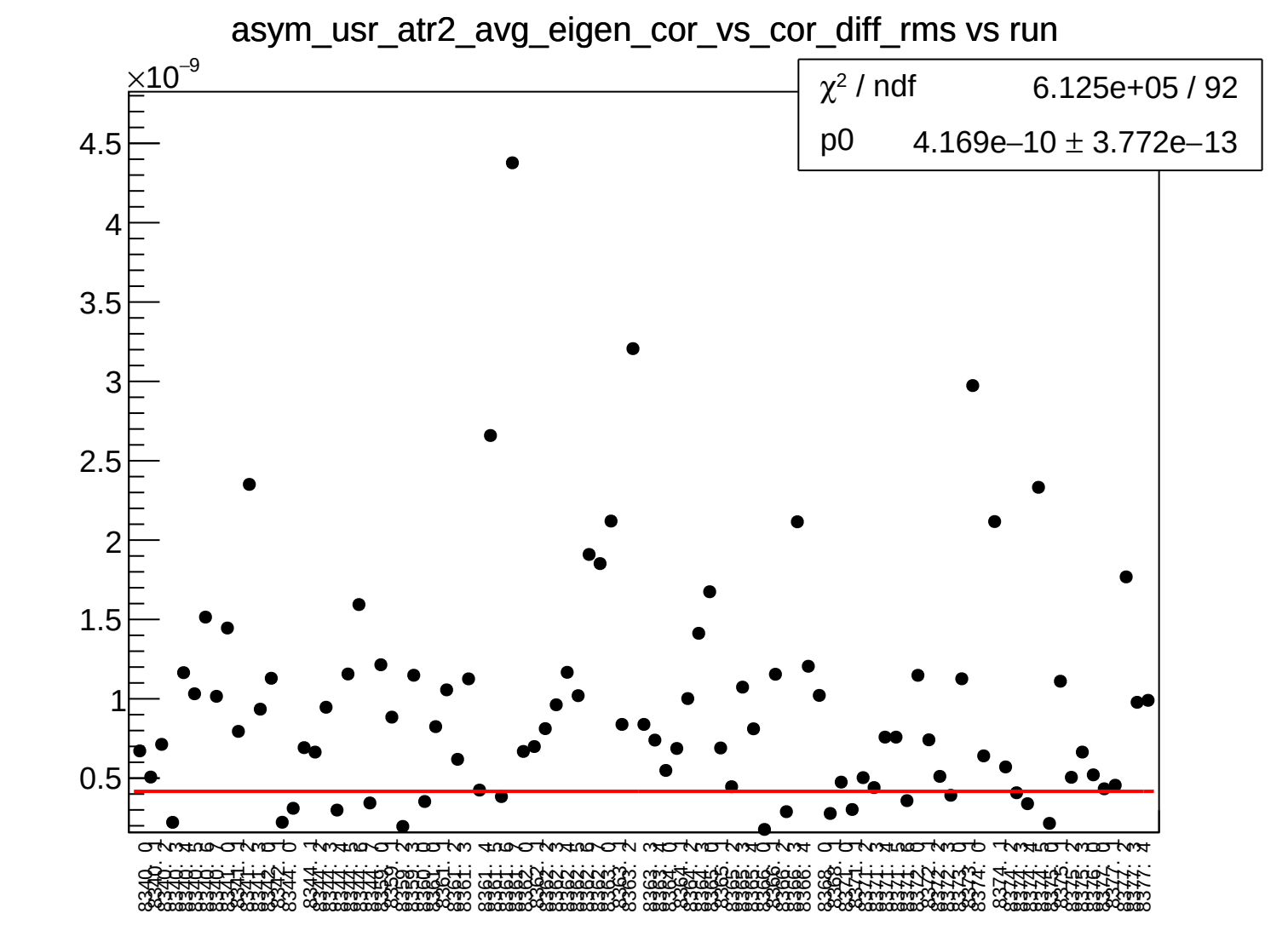

pull1D
Entries 93
Mean −0.007912
Std Dev 0.9318

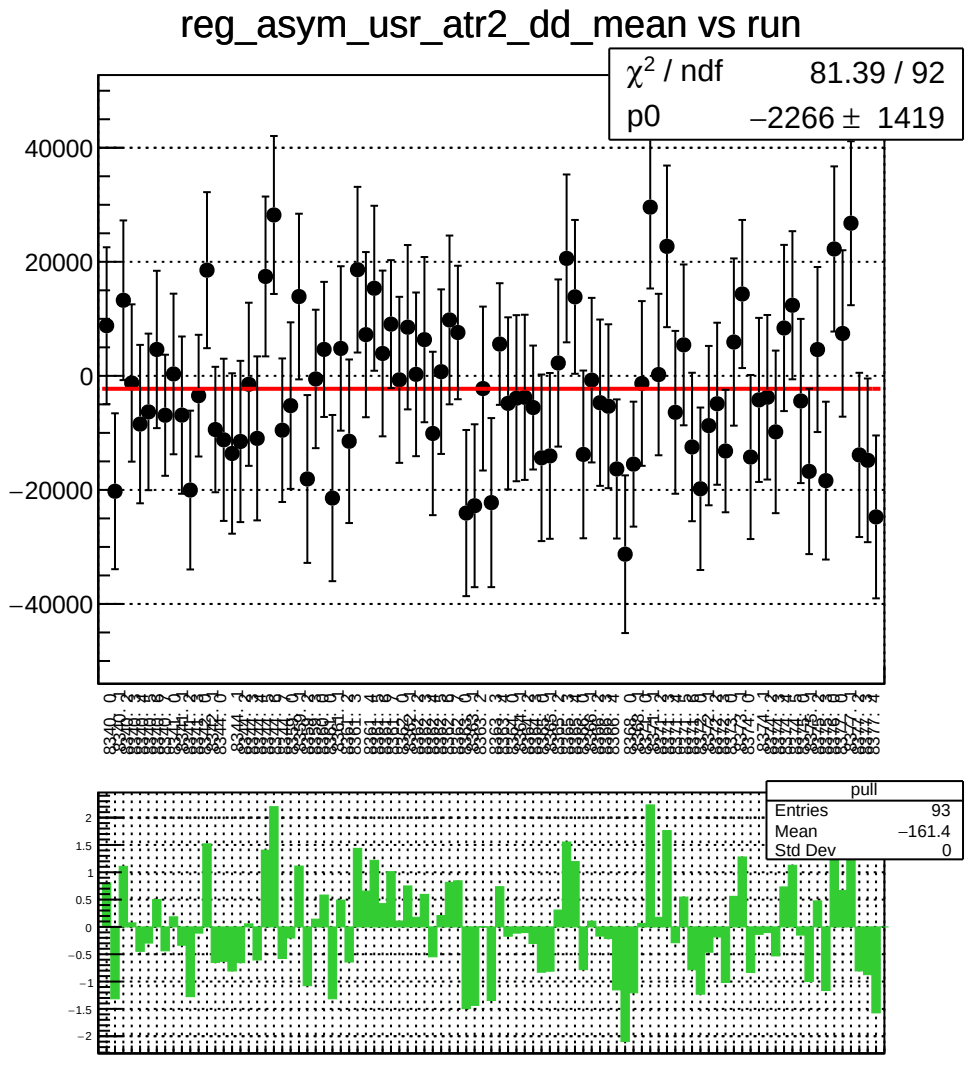

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 92
p0 173.4 ± 0.1291
240
220
200
180
160
140
120

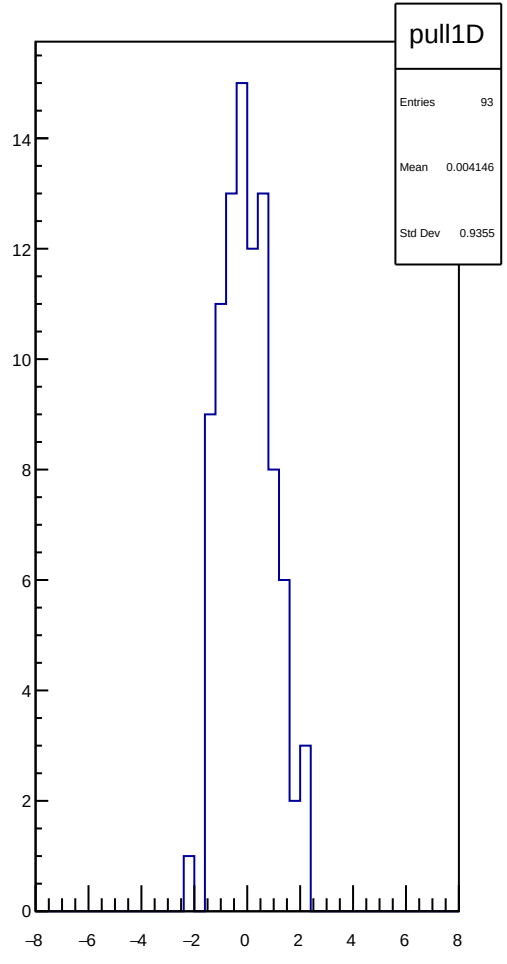

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 92
p0 −0.1968 ± 0.1826
pull
Entries 93
Mean 432.5
Std Dev 0
pull1D
Entries 93
Mean −0.007912
Std Dev 0.9318

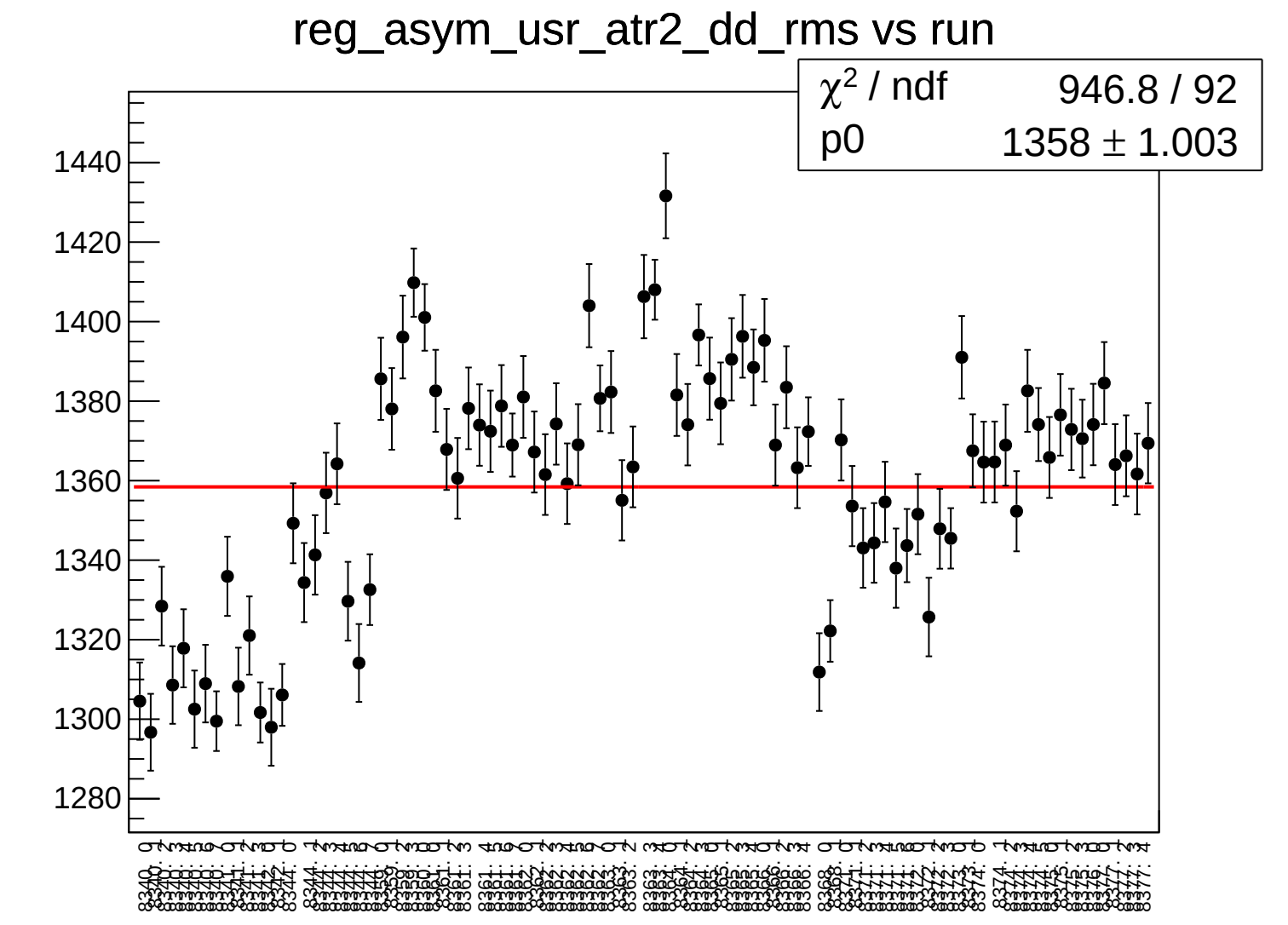

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.963e+04 / 92
p0 173.4 ± 0.1291
240
220
200
180
160
140
120

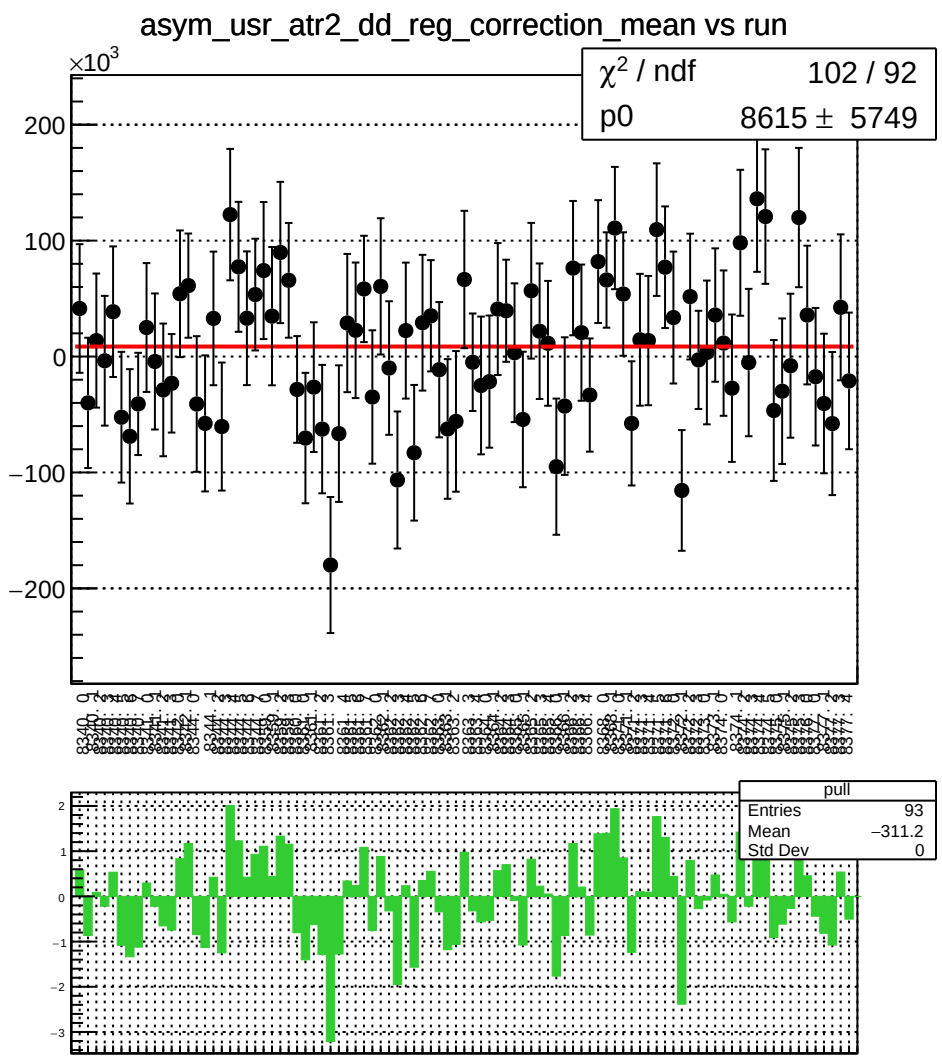

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 81.86 / 92
p0 −8.773e−13 ± 5.335e−13
pull
Entries 93
Mean 94.49
Std Dev 26.44
pull1D
Entries 93
Mean 0.02931
Std Dev 0.9377

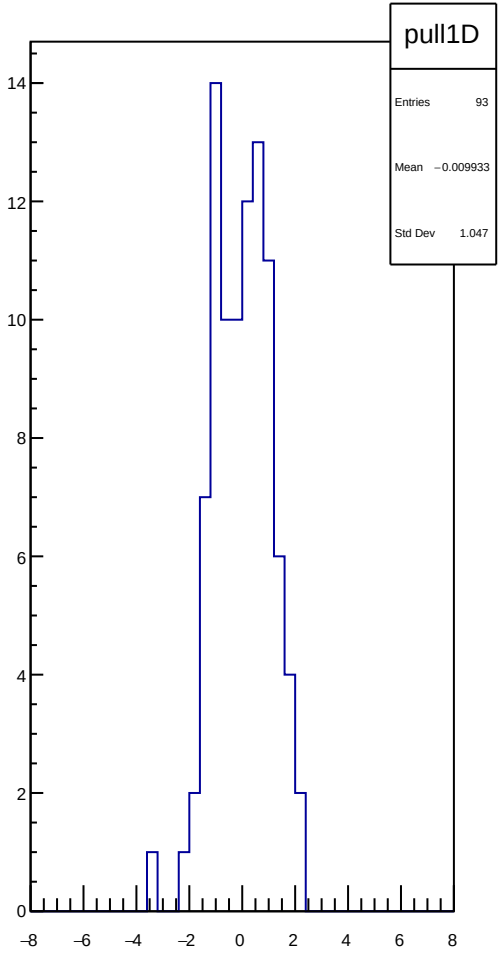

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.125e+05 / 92
p0 4.169e−10 ± 3.772e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

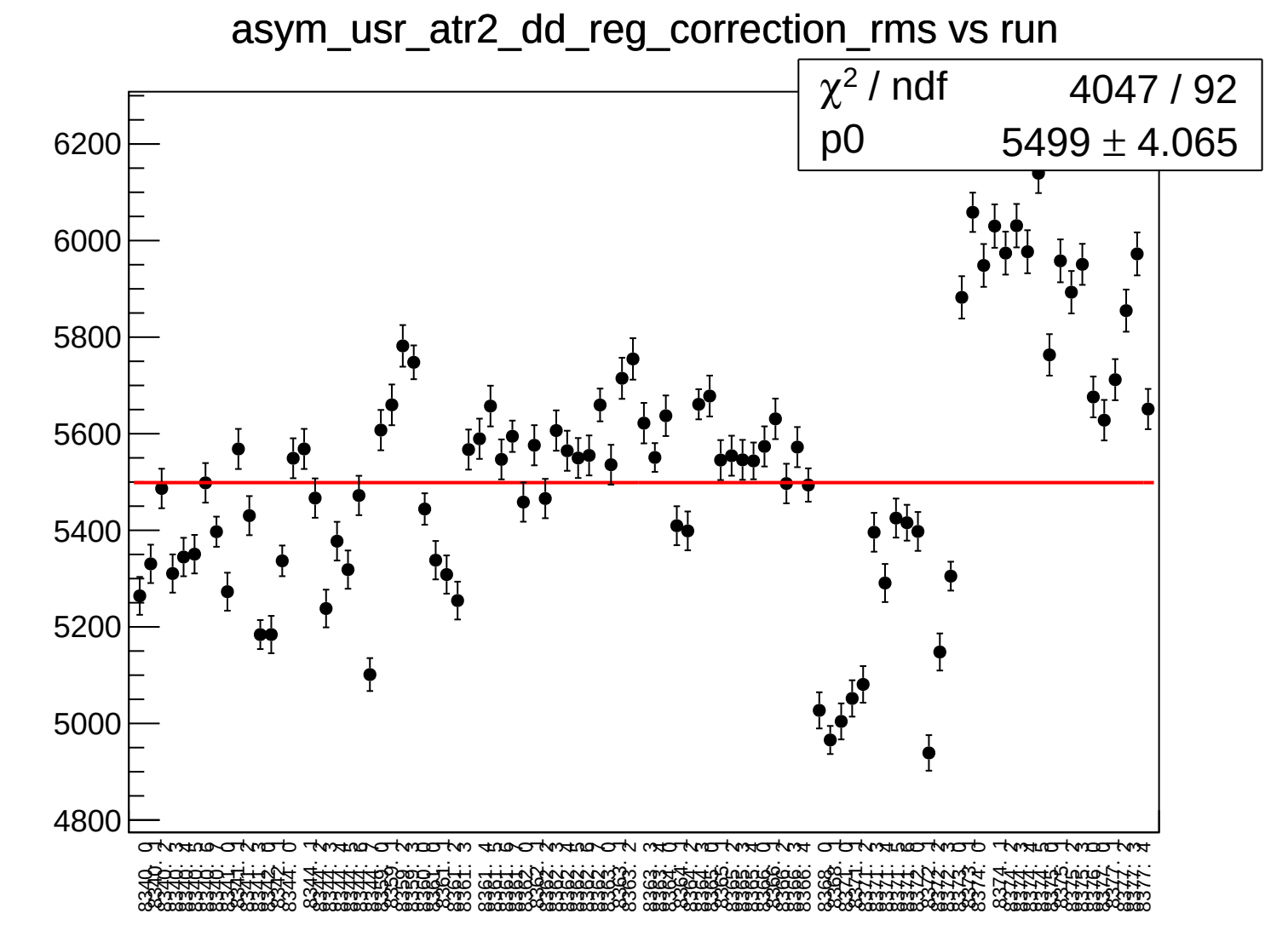

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.39 / 92
p0 −2266 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

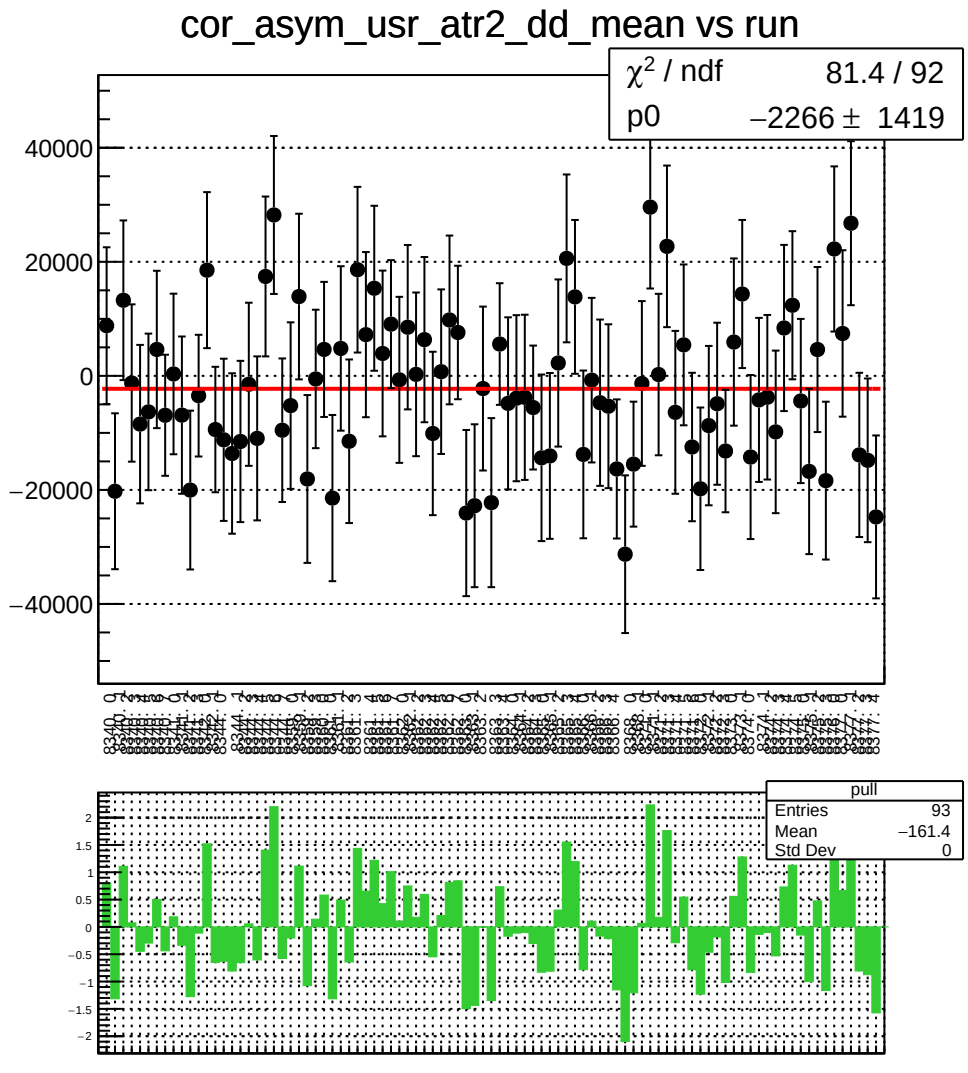

pull1D
Entries 93
Mean 0.004146
Std Dev 0.9355
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

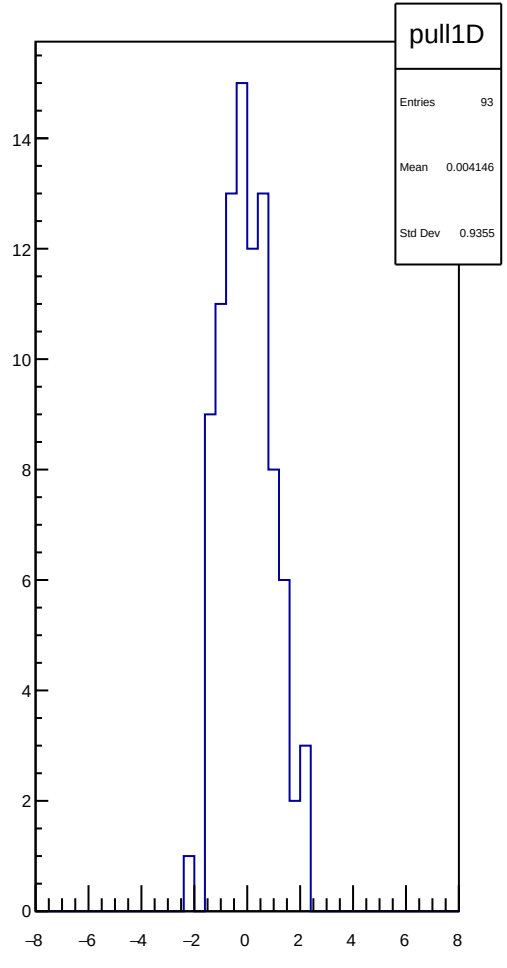

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 946.8 / 92
p0 1358 ± 1.003
1440
1420
1400
1380
1360
1340
1320
1300
1280

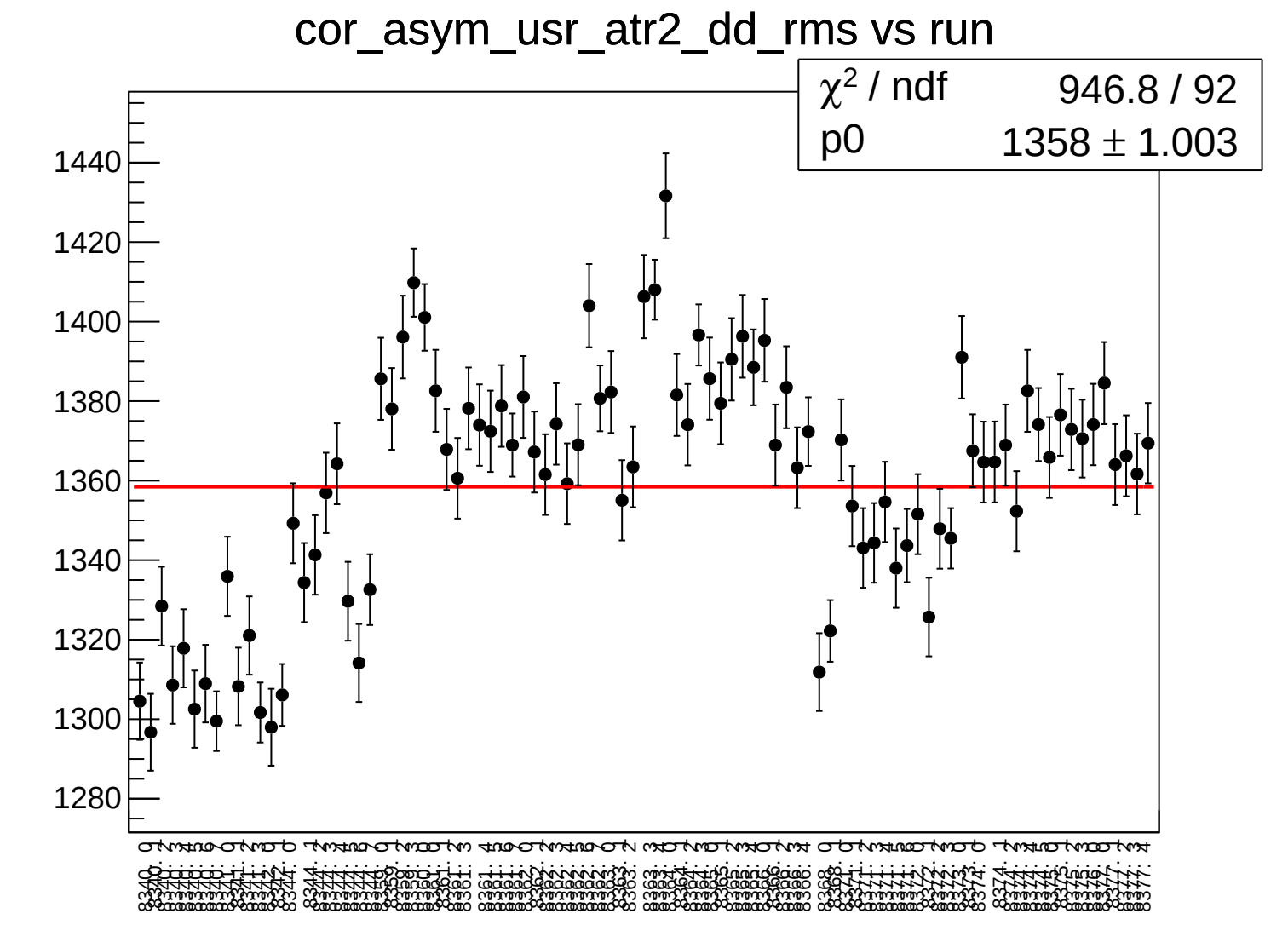

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 102 / 92
p0 8615 ± 5749
200
100
0
−100
−200
pull
Entries 93
Mean −311.2
Std Dev 0
2
1
0
−1
−2
−3

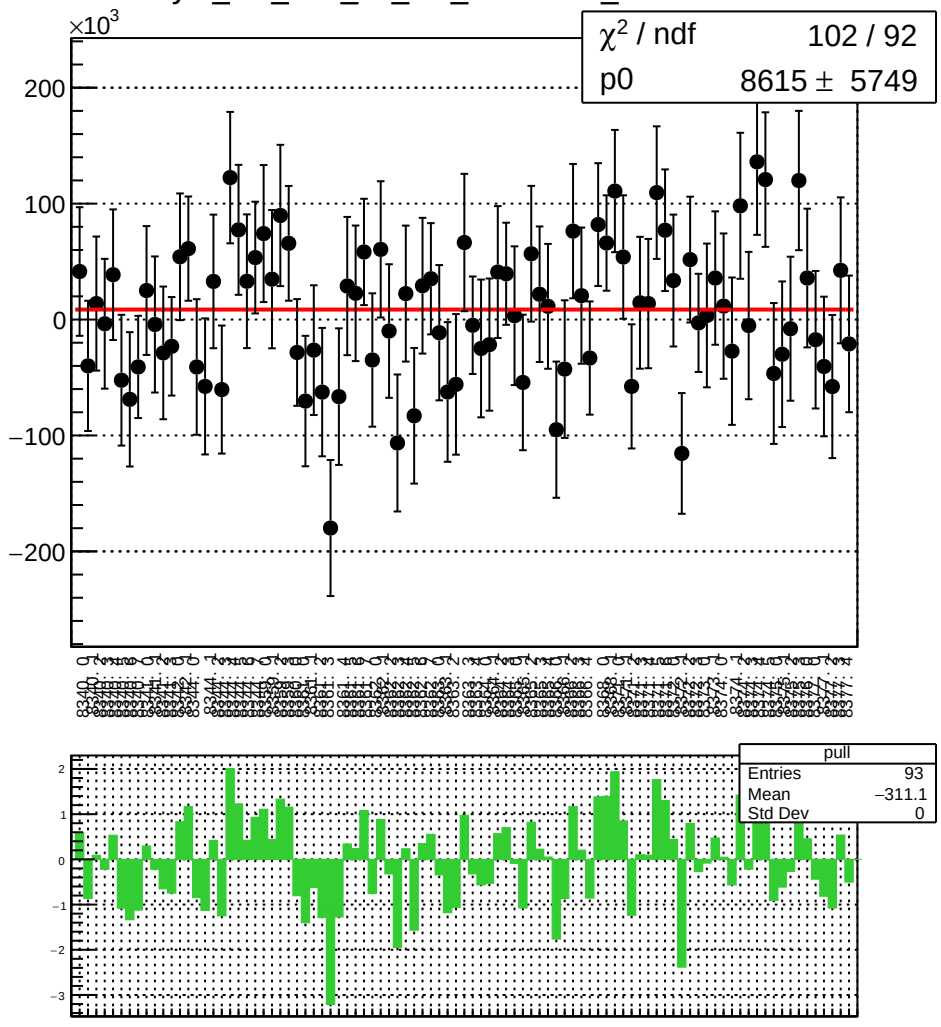

pull1D
Entries 93
Mean −0.009933
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

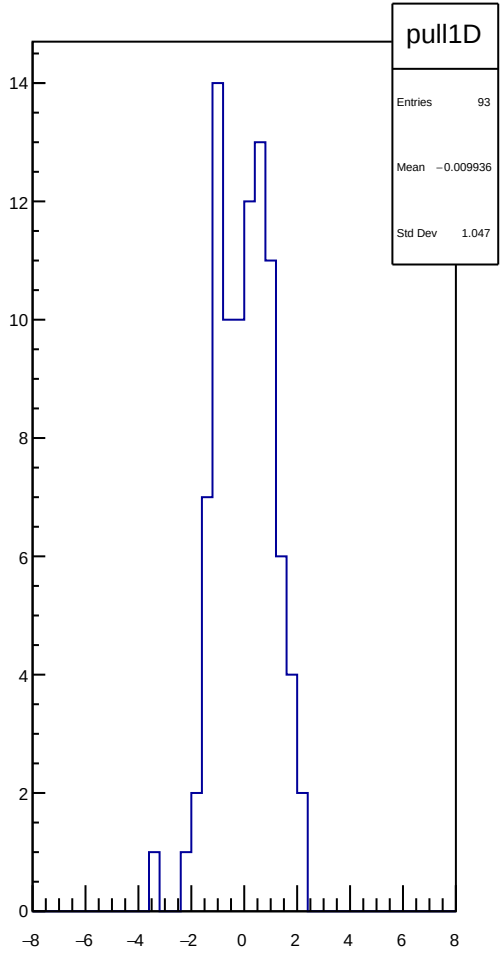

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4047 / 92
p0 5499 ± 4.065
6200
6000
5800
5600
5400
5200
5000
4800

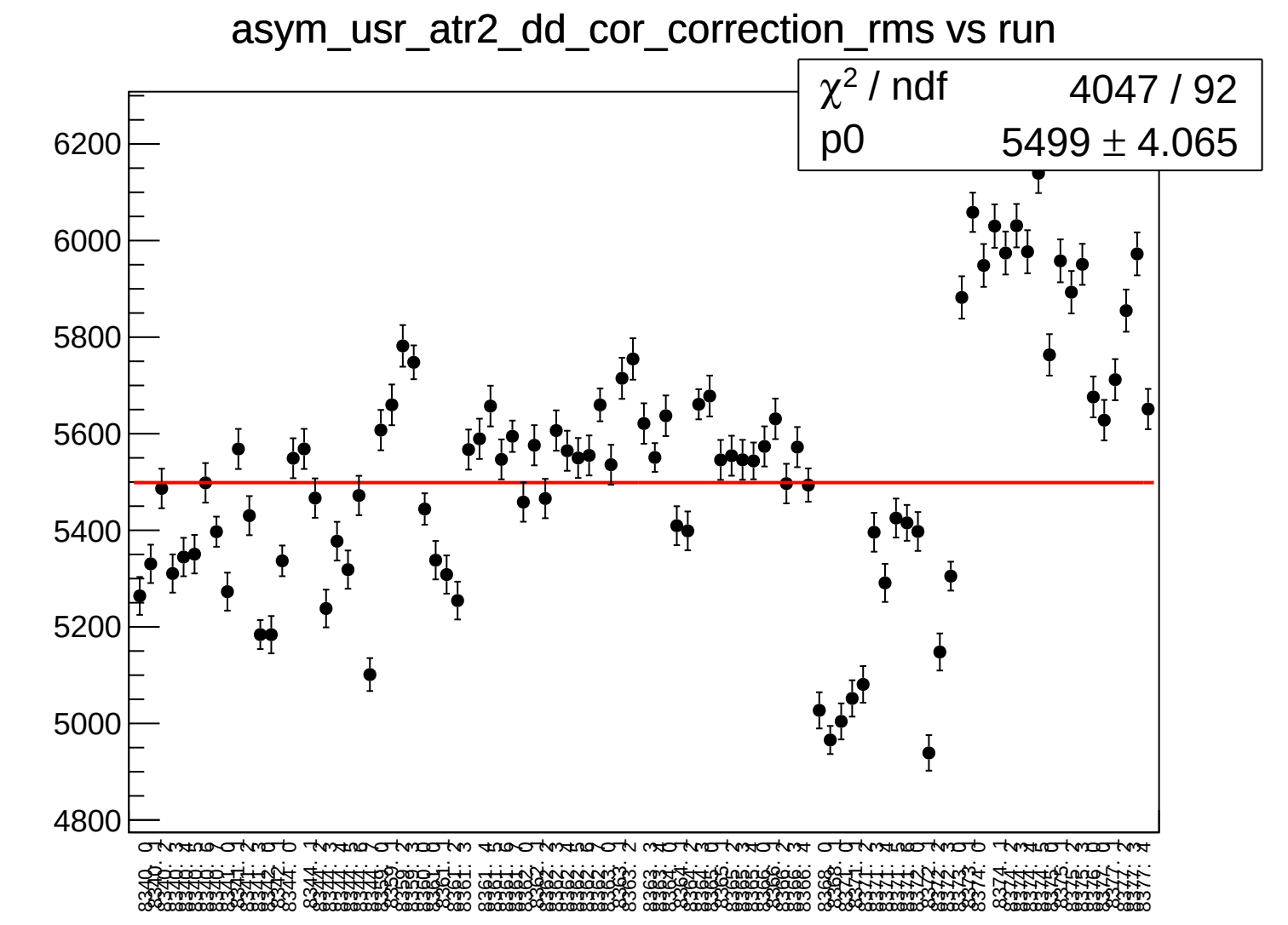

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.4 / 92
p0 −2266 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

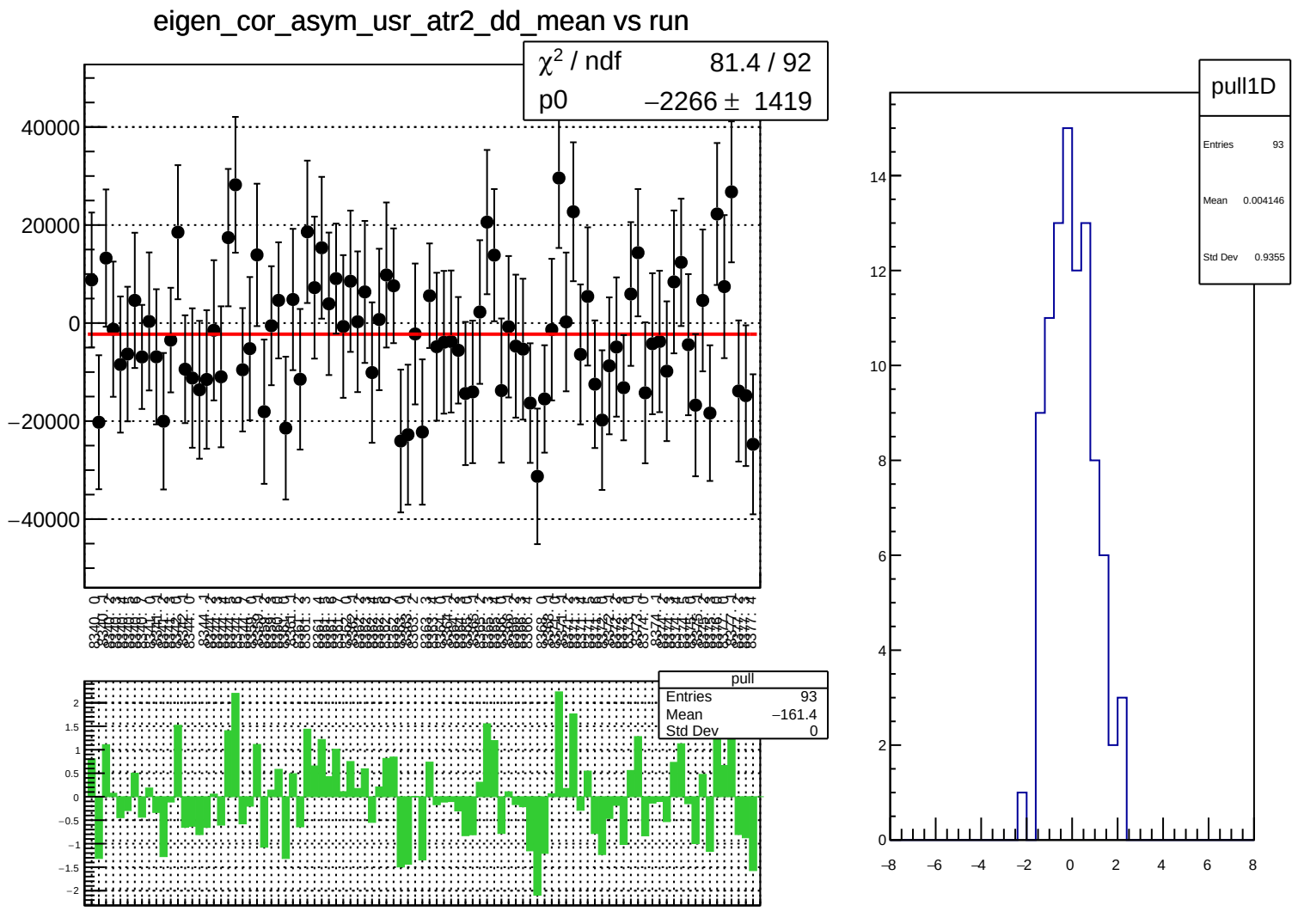

pull1D
Entries 93
Mean 0.004146
Std Dev 0.9355
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

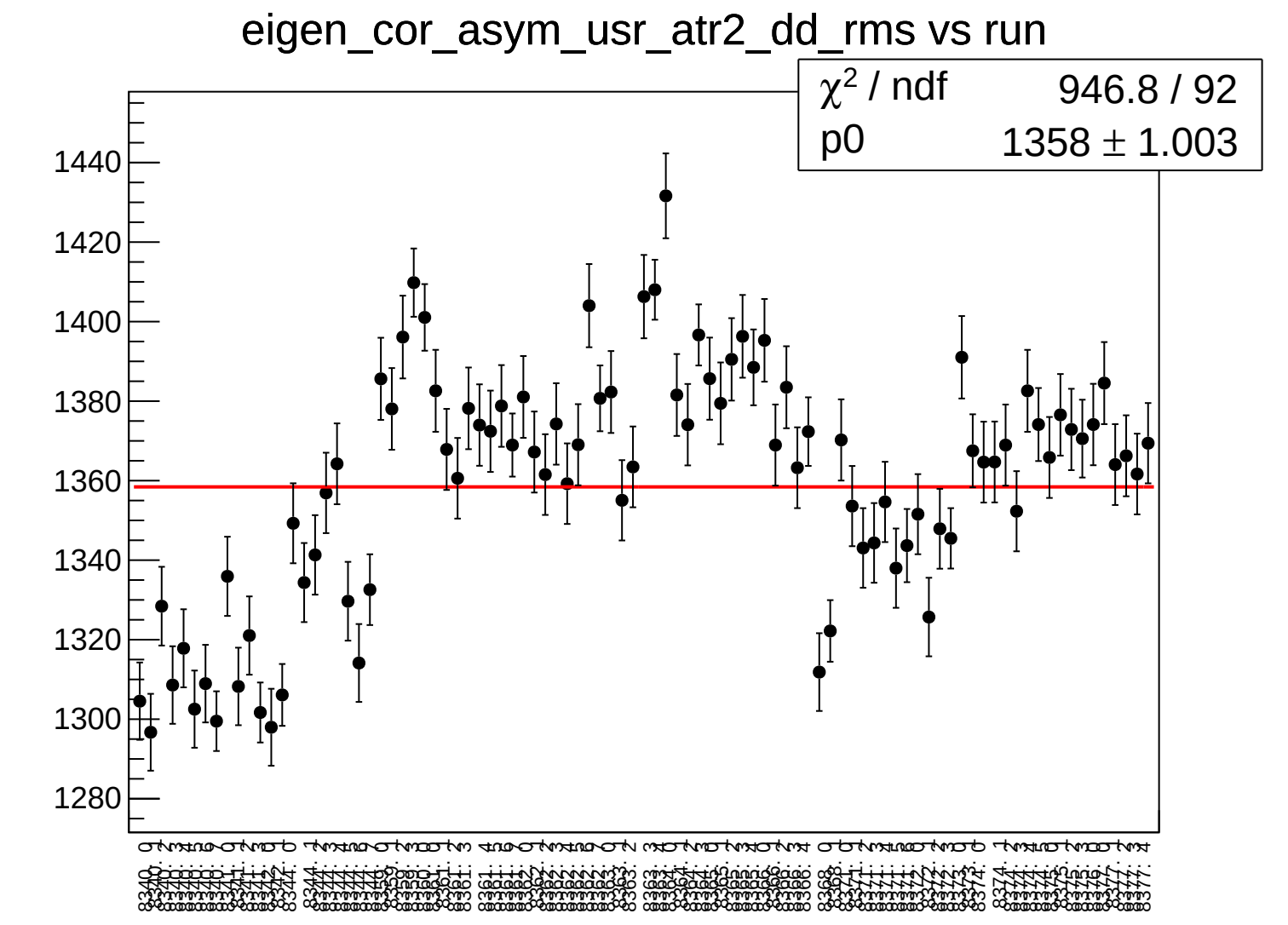

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 946.8 / 92
p0 1358 ± 1.003
1440
1420
1400
1380
1360
1340
1320
1300
1280

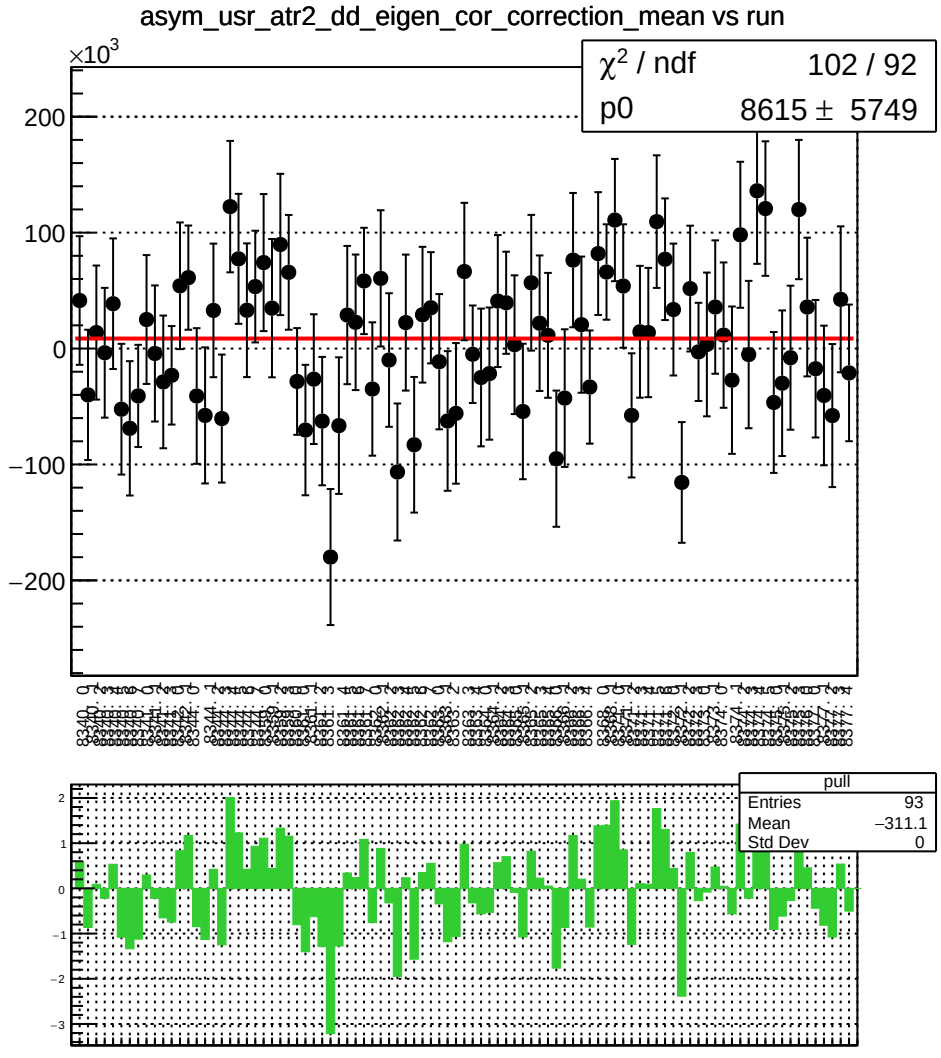

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 92
p0 8615 ± 5749
200
100
0
−100
−200
pull
Entries 93
Mean −311.1
Std Dev 0
2
1
0
−1
−2
−3

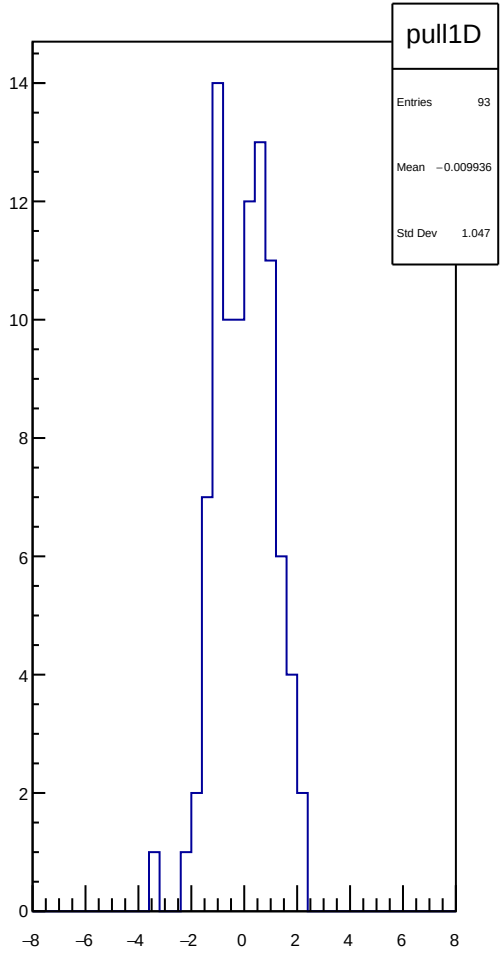

pull1D
Entries 93
Mean −0.009936
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

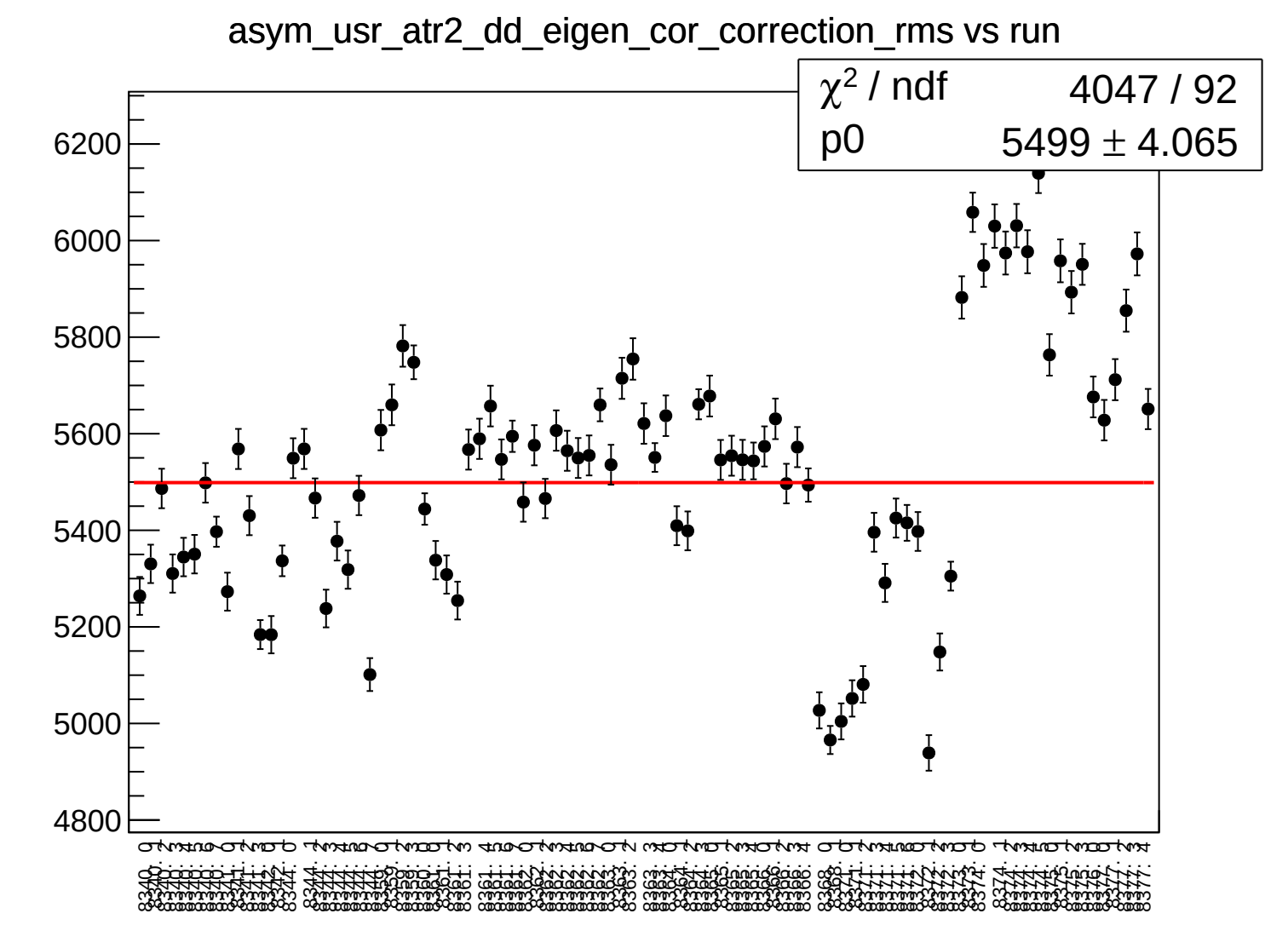

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4047 / 92
p0 5499 ± 4.065
6200
6000
5800
5600
5400
5200
5000
4800

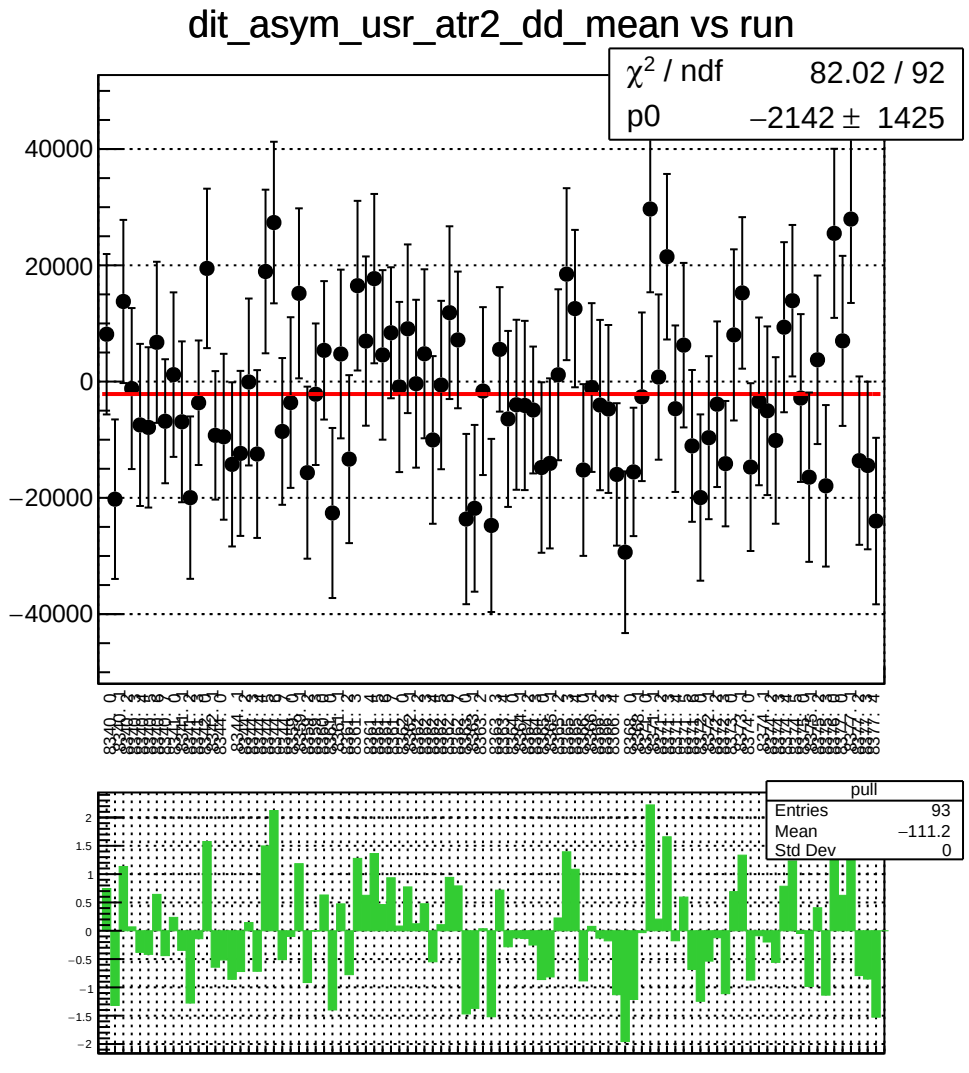

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 81.4 / 92
p0 −2266 ± 1419
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −161.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.004146
Std Dev 0.9355
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

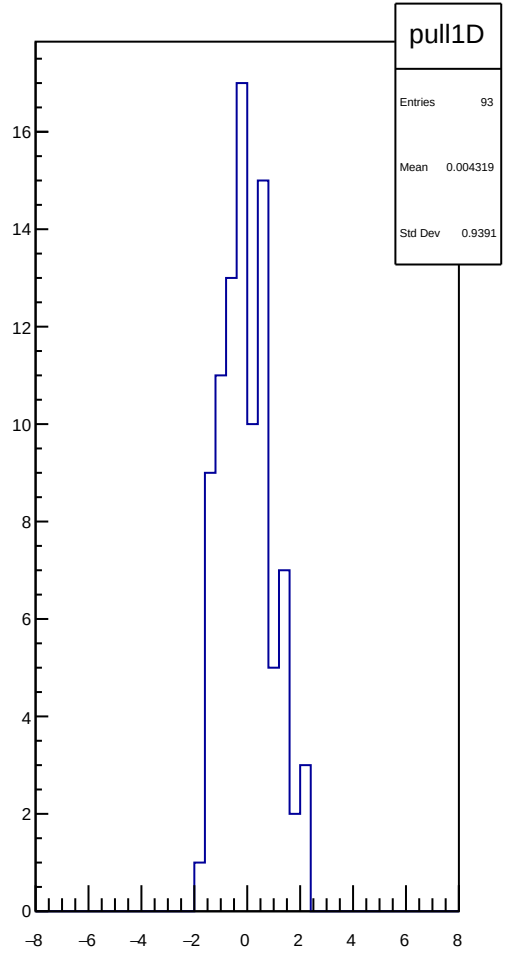

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 946.8 / 92
p0 1358 ± 1.003
1440
1420
1400
1380
1360
1340
1320
1300
1280

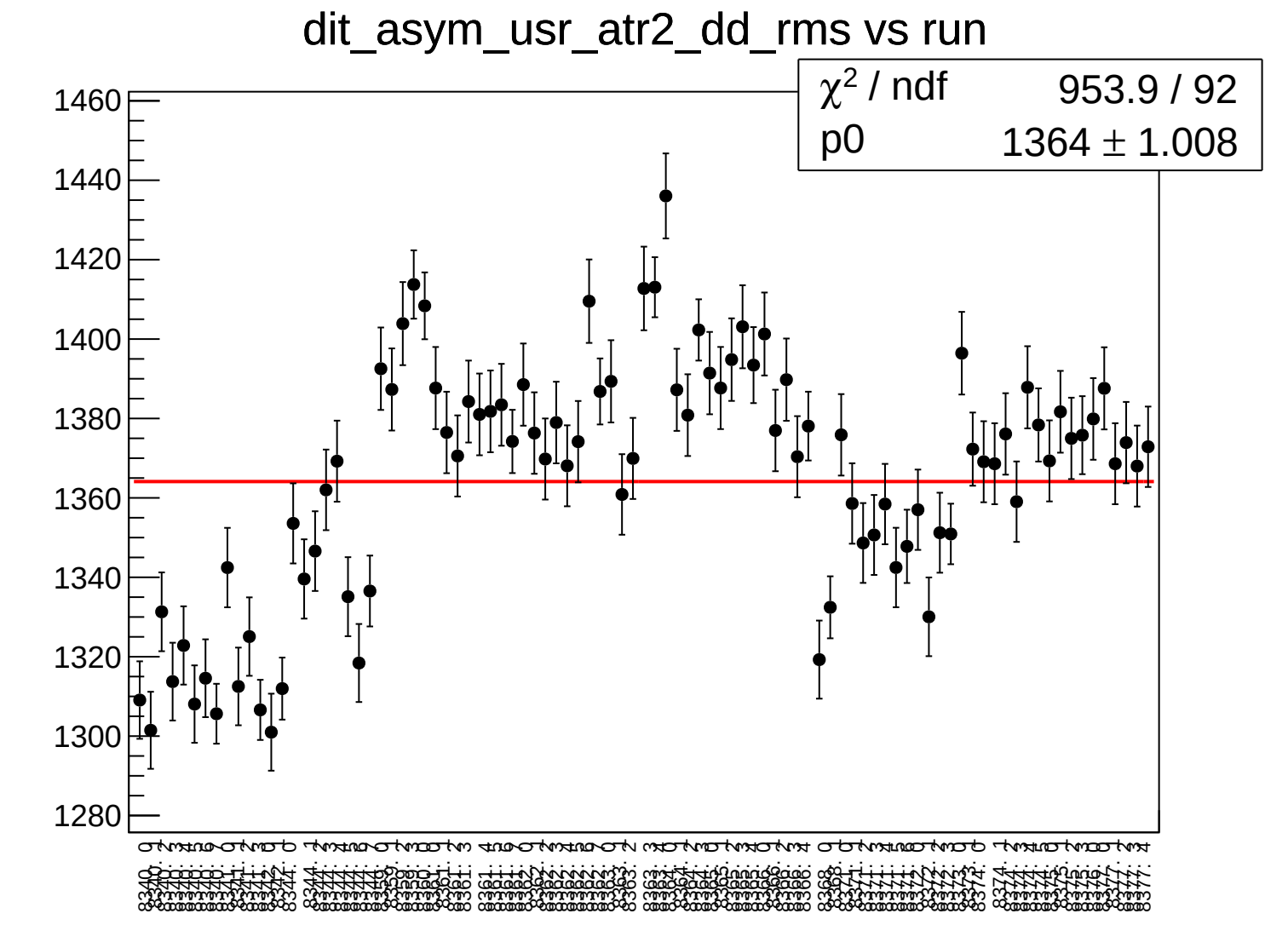

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102 / 92
p0 8615 ± 5749
200
100
0
−100
−200
pull
Entries 93
Mean −311.1
Std Dev 0
2
1
0
−1
−2
−3

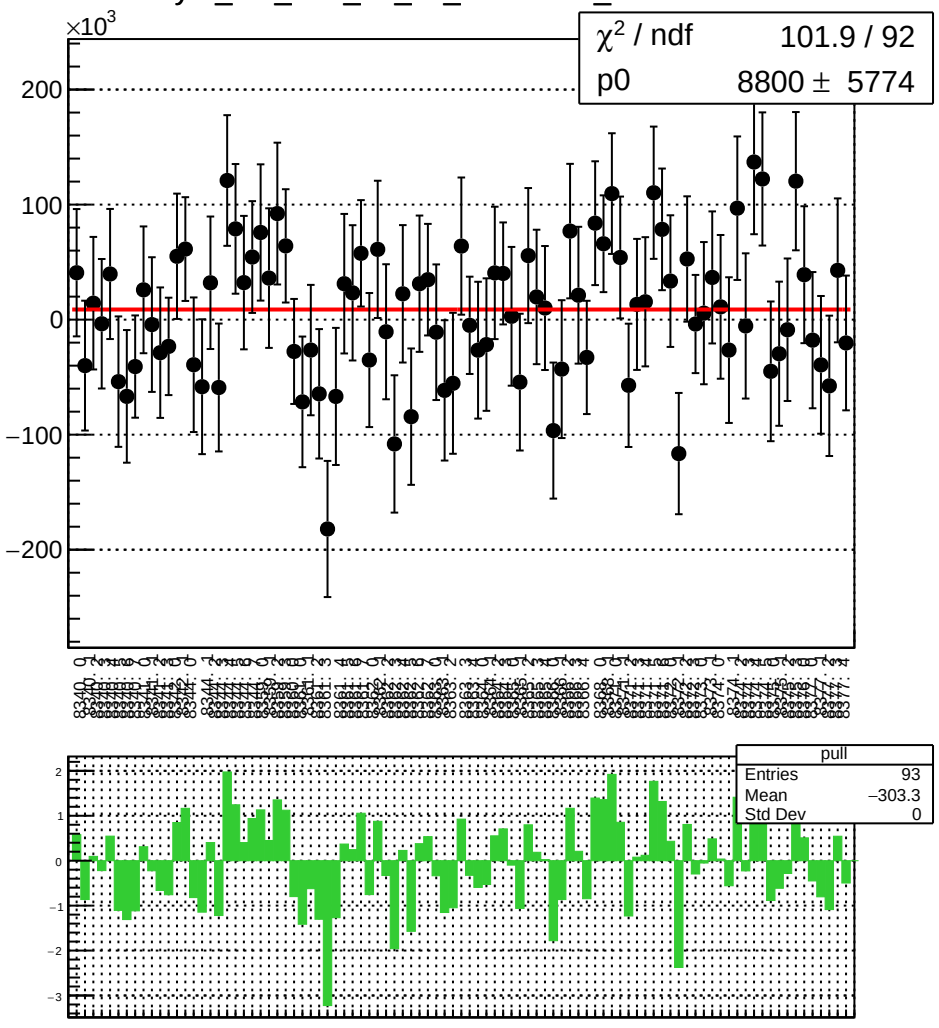

pull1D
Entries 93
Mean −0.009936
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

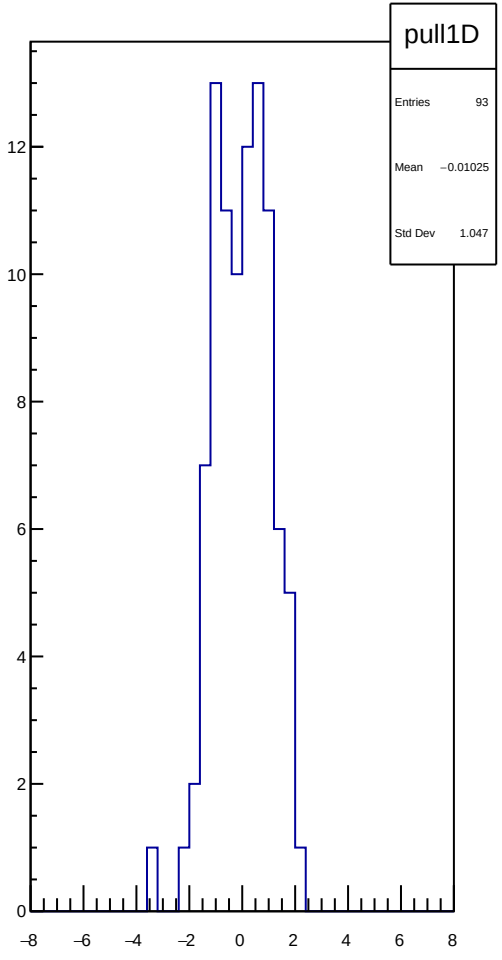

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4047 / 92
p0 5499 ± 4.065
6200
6000
5800
5600
5400
5200
5000
4800

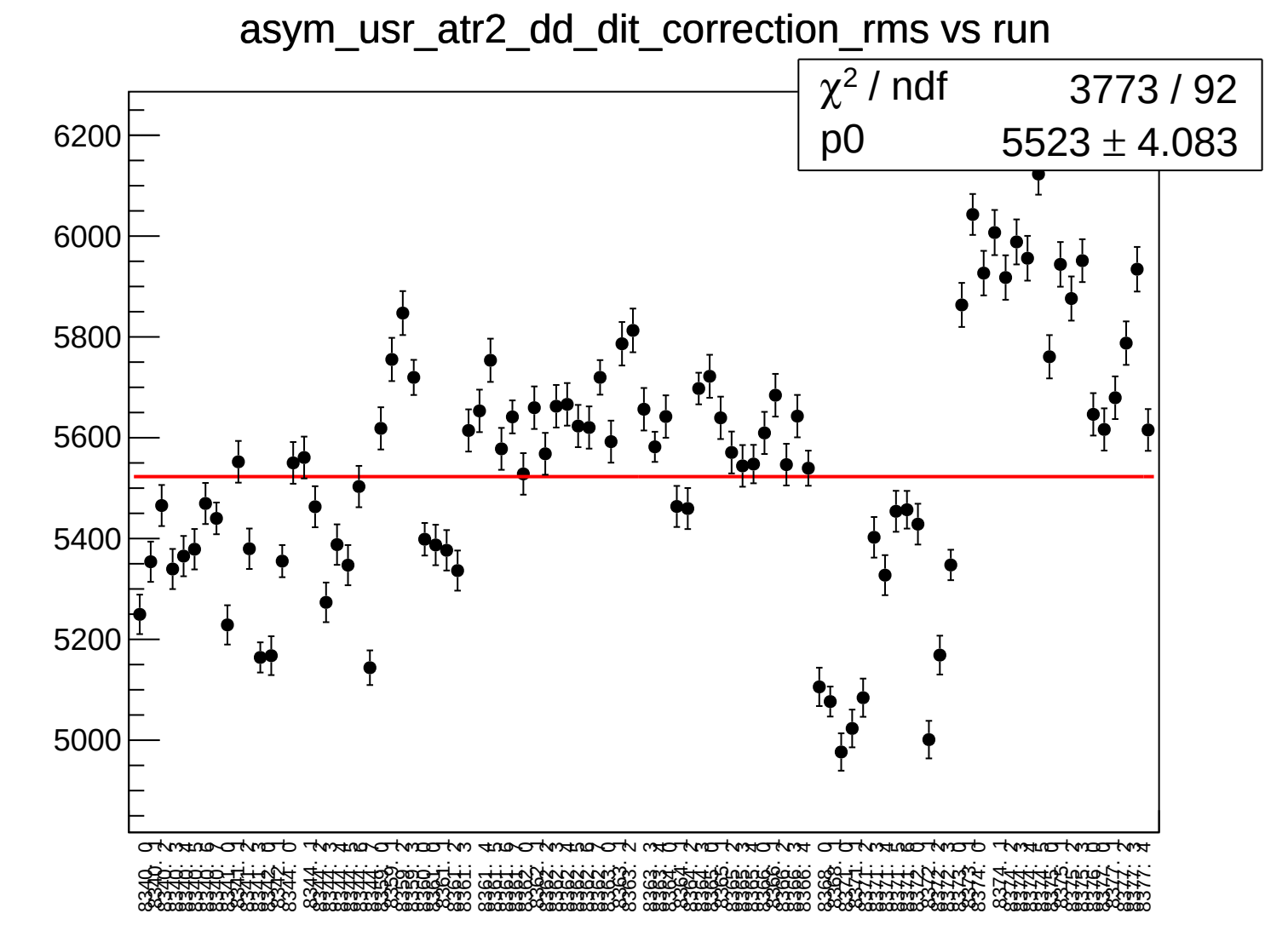

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.02 / 92
p0 −2142 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

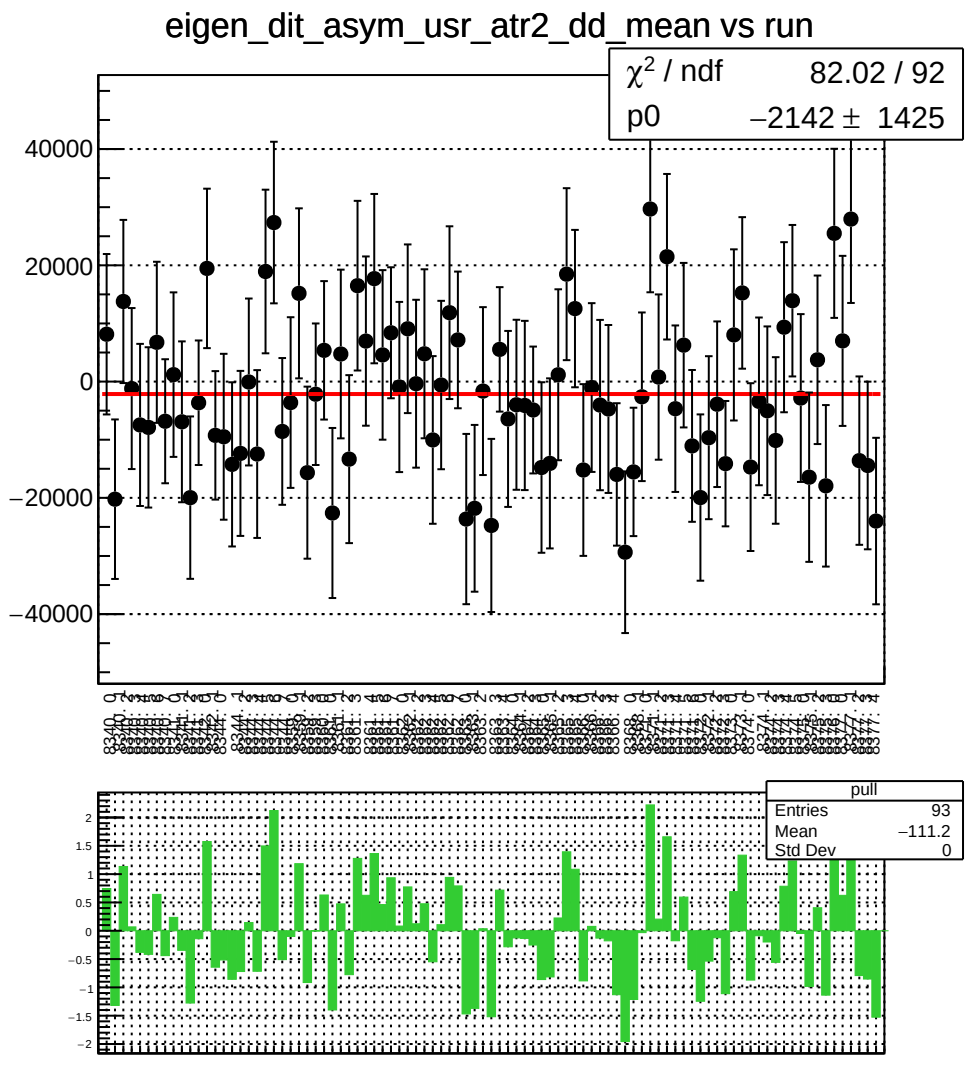

pull1D
Entries 93
Mean 0.004319
Std Dev 0.9391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

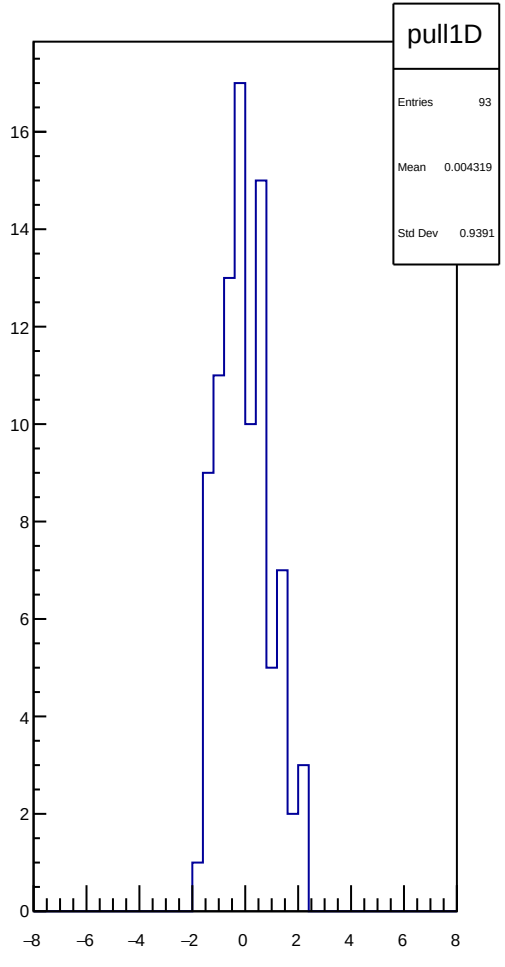

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 953.9 / 92
p0 1364 ± 1.008
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

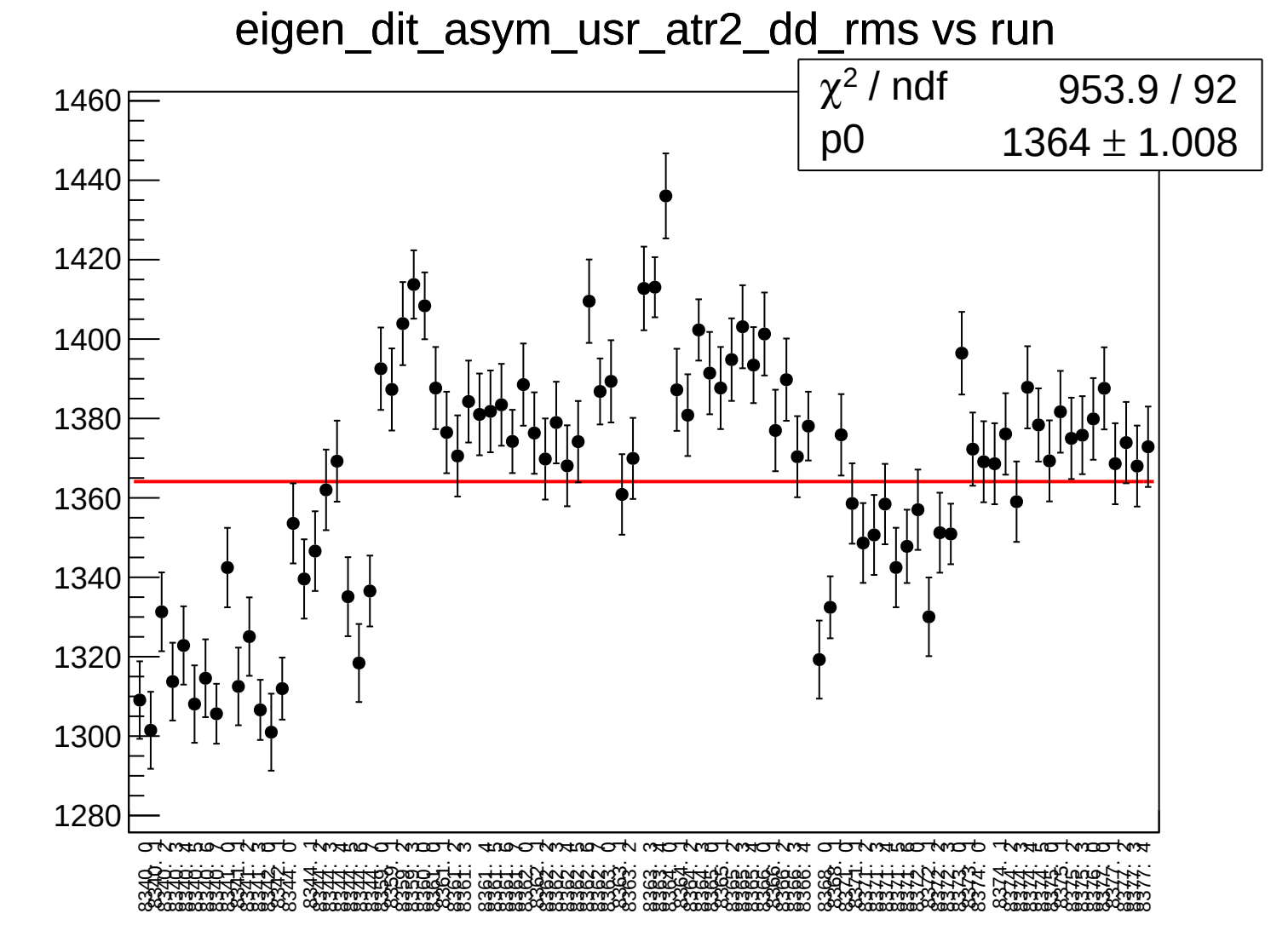

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.9 / 92
p0 8800 ± 5774
200
100
0
−100
−200
pull
Entries 93
Mean −303.3
Std Dev 0
2
1
0
−1
−2
−3

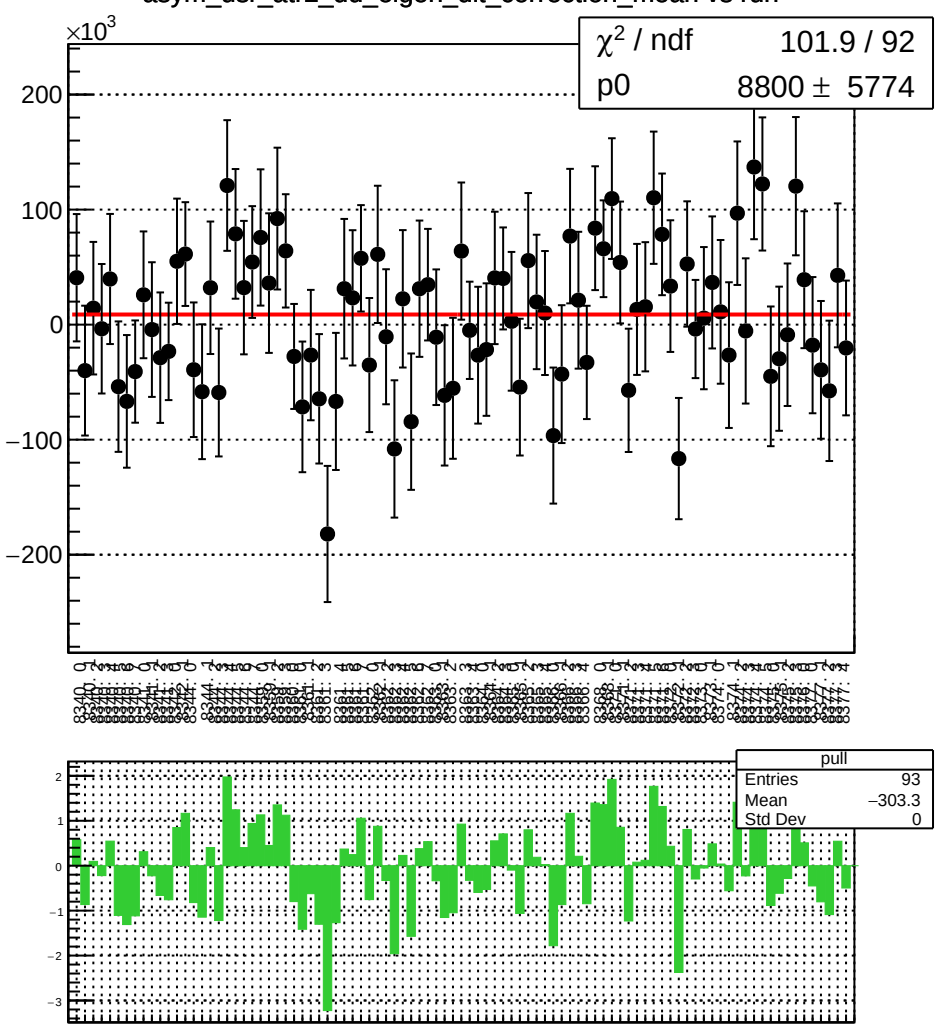

pull1D
Entries 93
Mean −0.01025
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

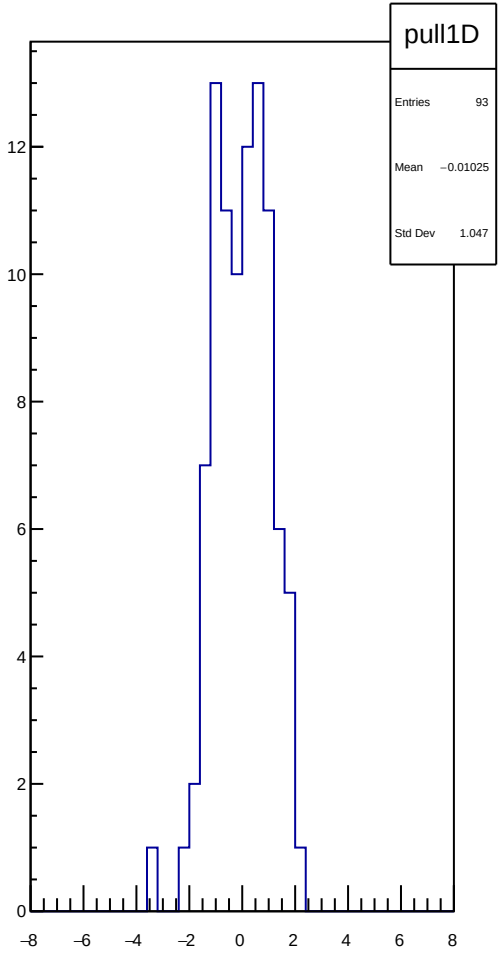

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3773 / 92
p0 5523 ± 4.083
6200
6000
5800
5600
5400
5200
5000

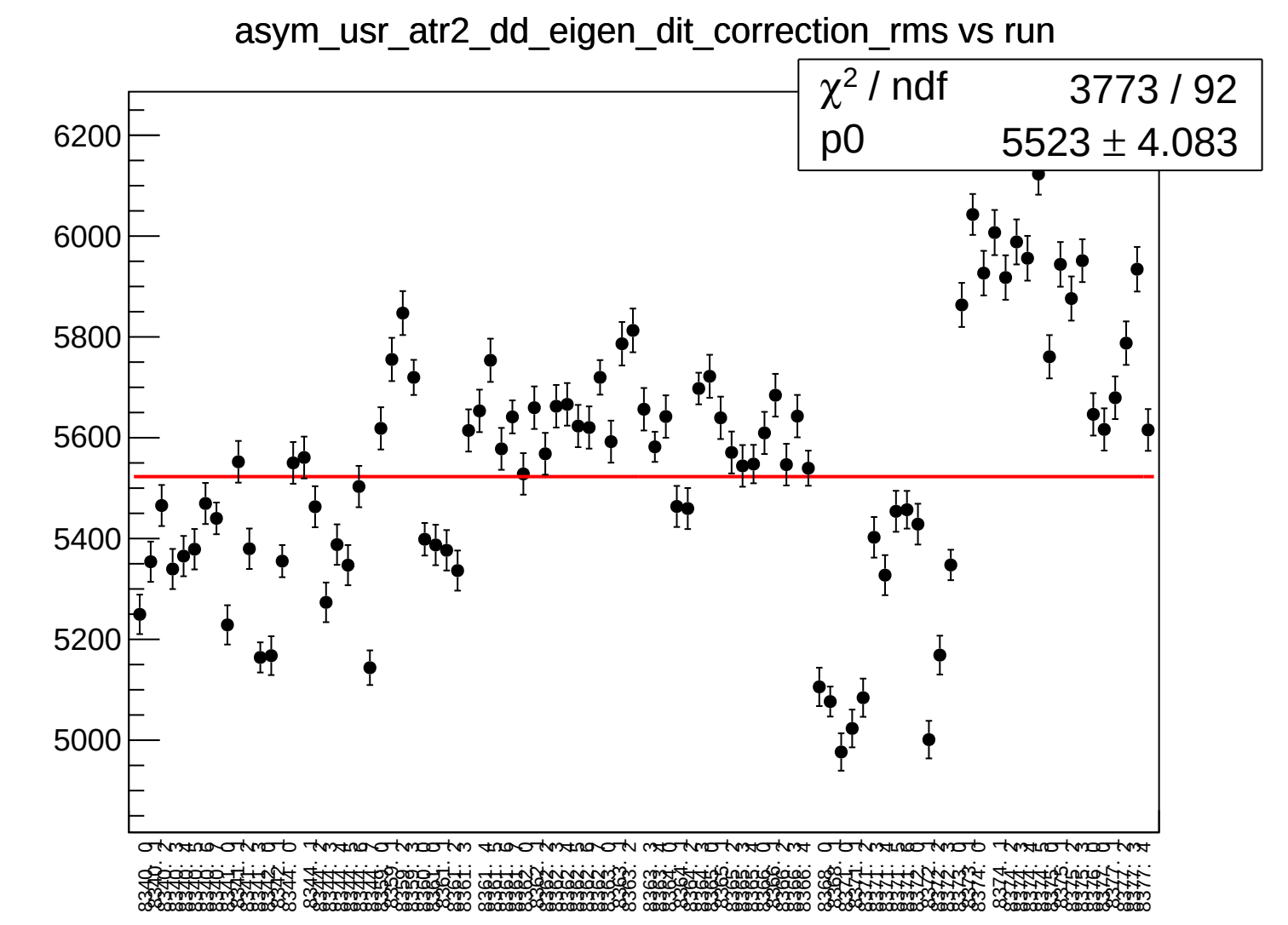

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.02 / 92
p0 −2142 ± 1425
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −111.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

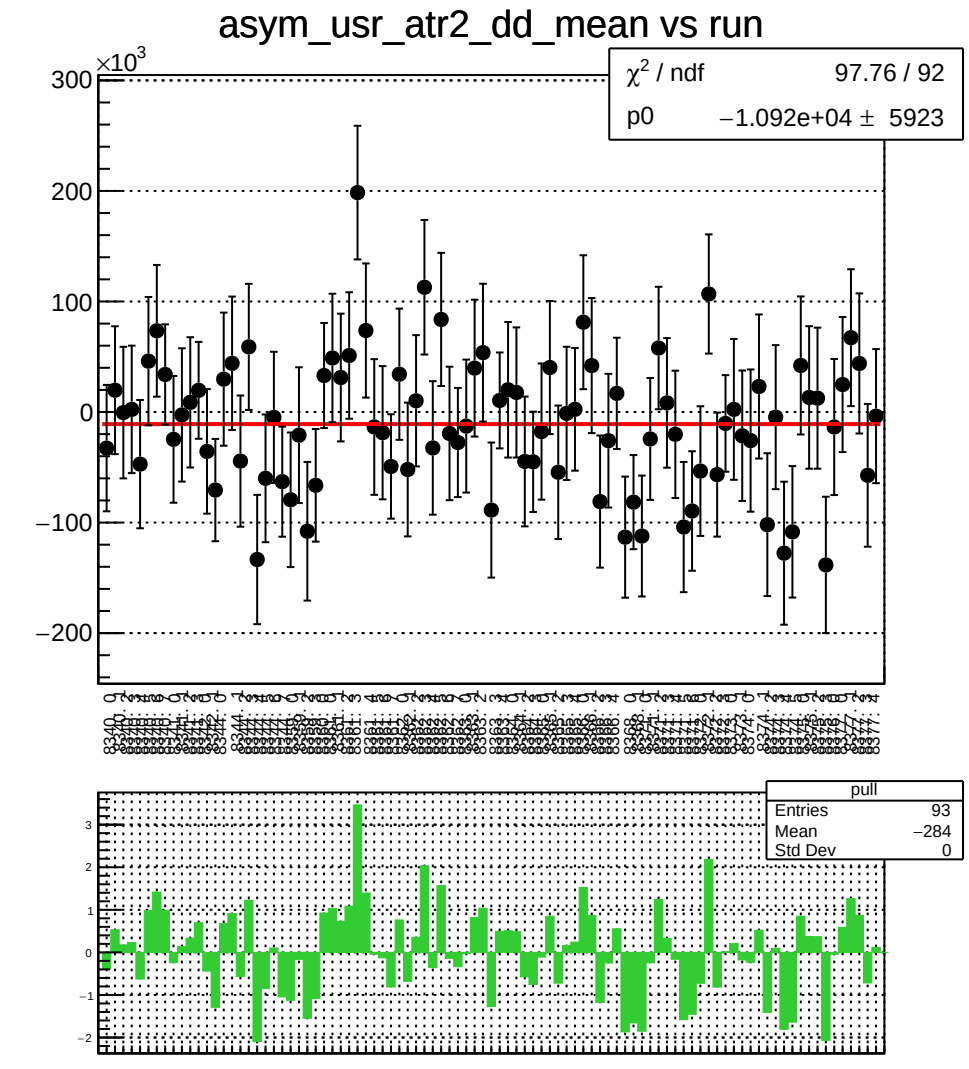

pull1D
Entries 93
Mean 0.004319
Std Dev 0.9391
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

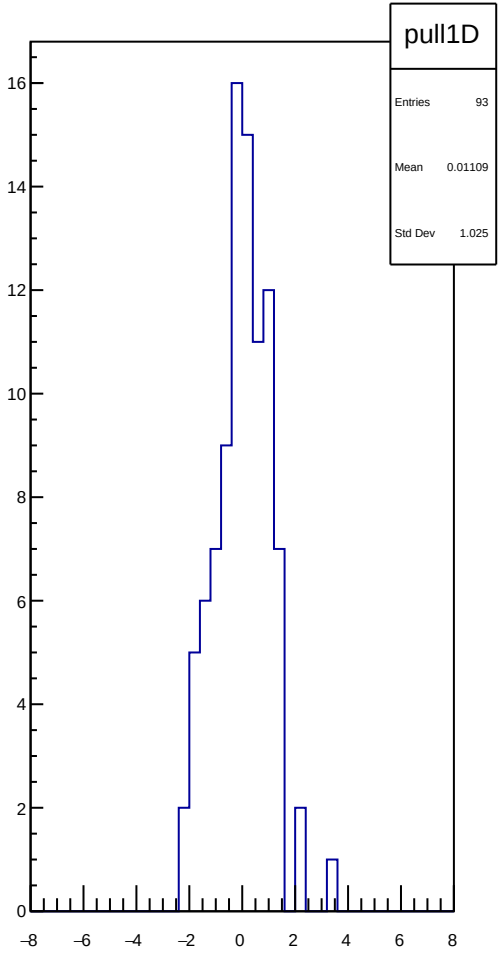

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 953.9 / 92
p0 1364 ± 1.008
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280

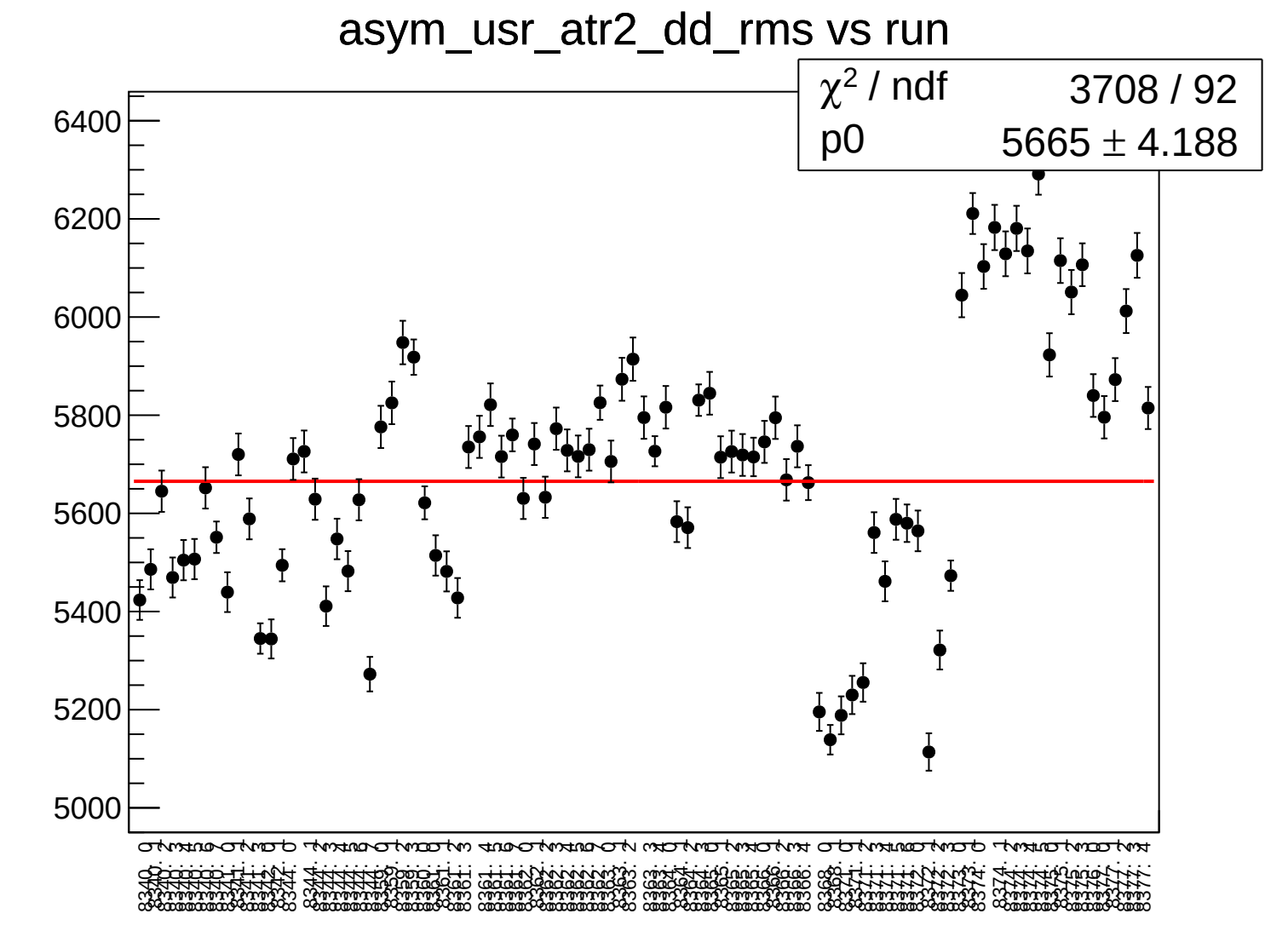

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.9 / 92
p0 8800 ± 5774
200
100
0
−100
−200
pull
Entries 93
Mean −303.3
Std Dev 0
2
1
0
−1
−2
−3

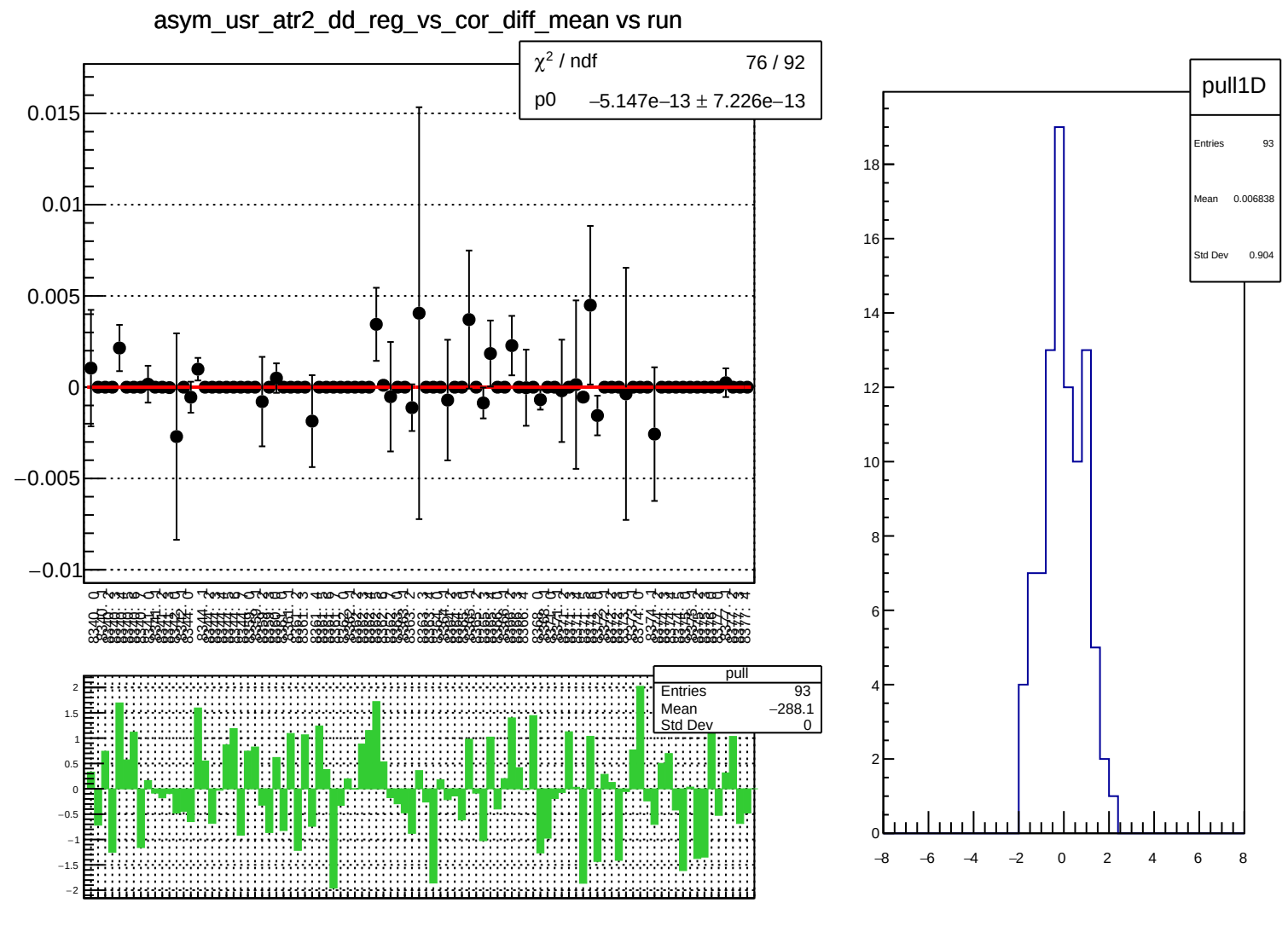

pull1D
Entries 93
Mean −0.01025
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

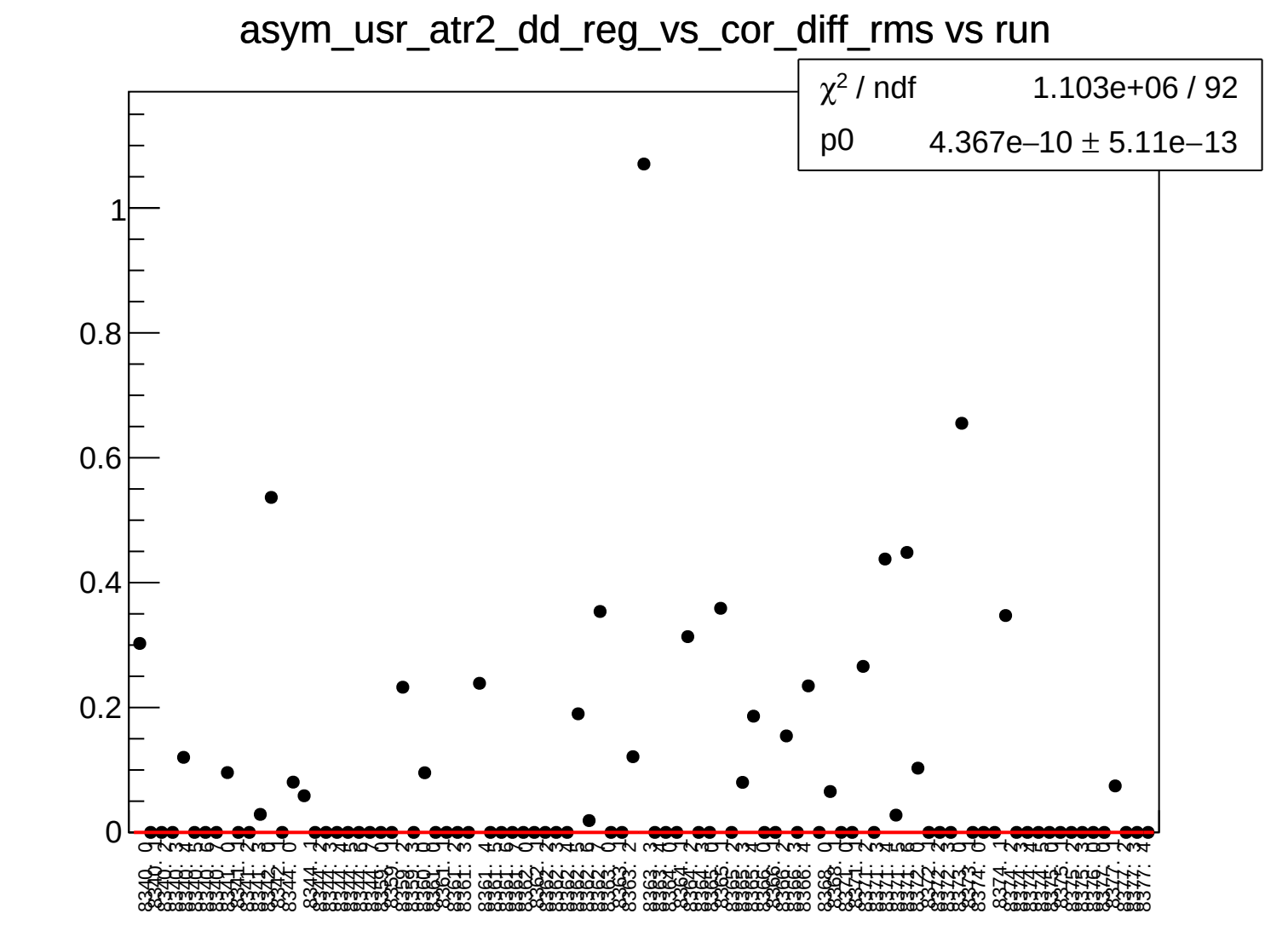

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3773 / 92
p0 5523 ± 4.083
6200
6000
5800
5600
5400
5200
5000

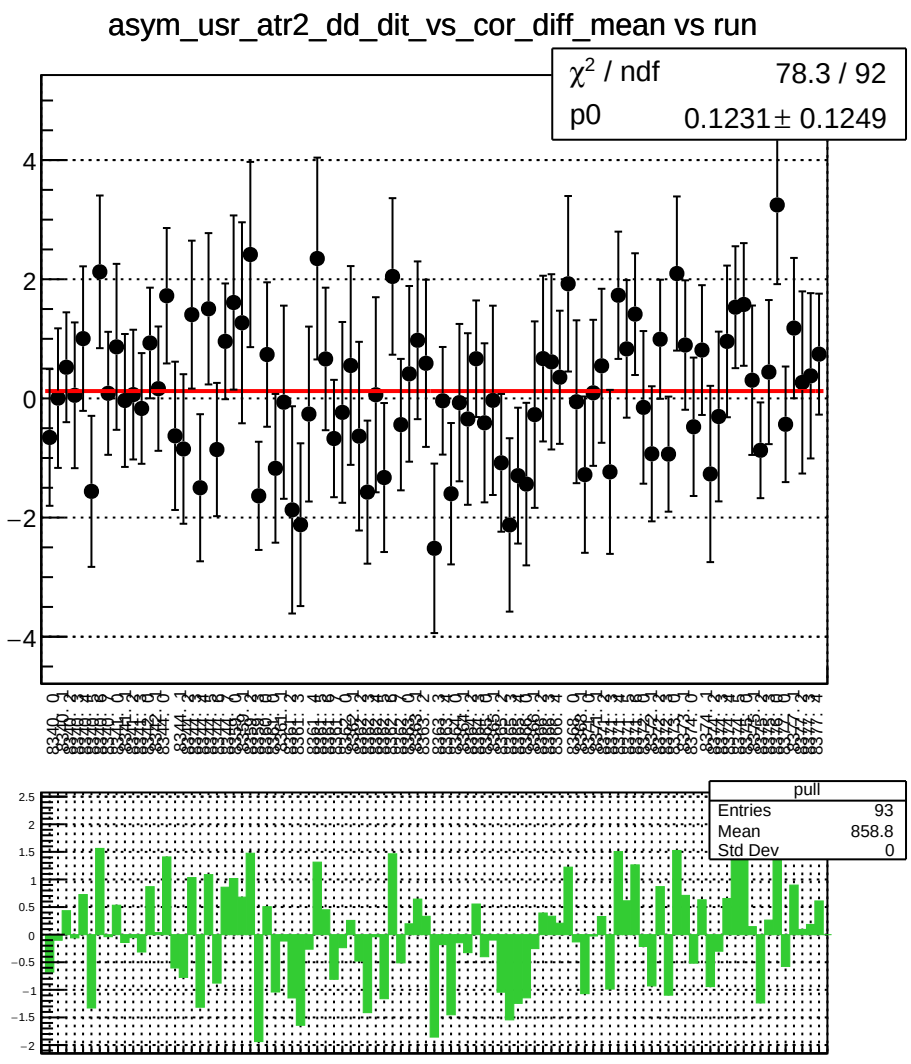

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 97.76 / 92
p0 −1.092e+04 ± 5923
pull
Entries 93
Mean −284
Std Dev 0

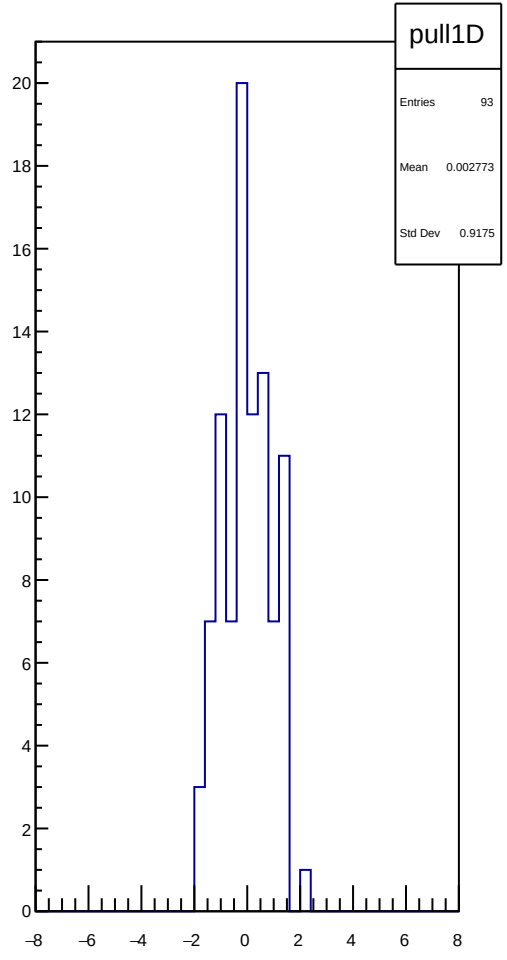

pull1D
Entries 93
Mean 0.01109
Std Dev 1.025

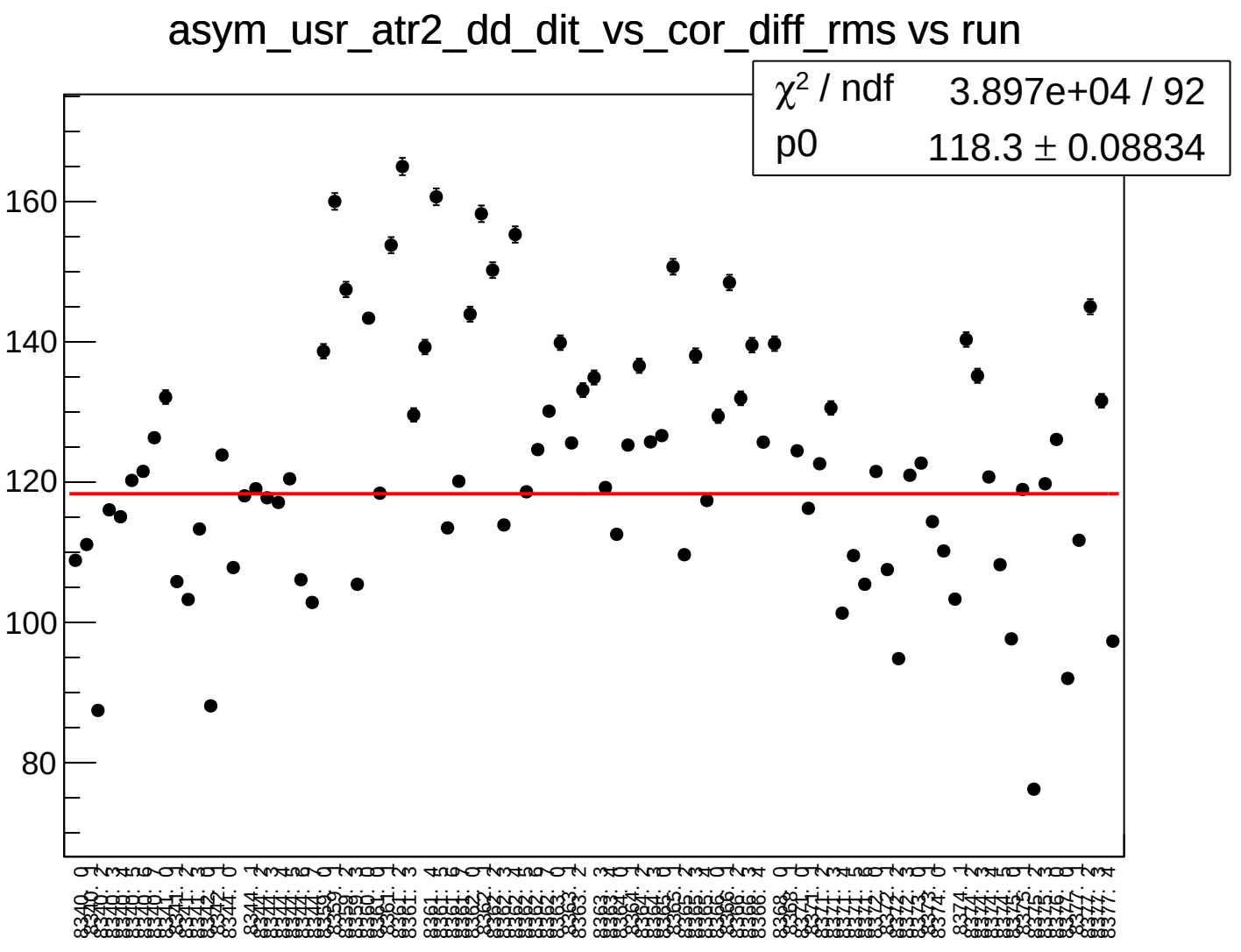

asym_usr_atr2_dd_rms vs run
χ² / ndf 3708 / 92
p0 5665 ± 4.188
6400
6200
6000
5800
5600
5400
5200
5000

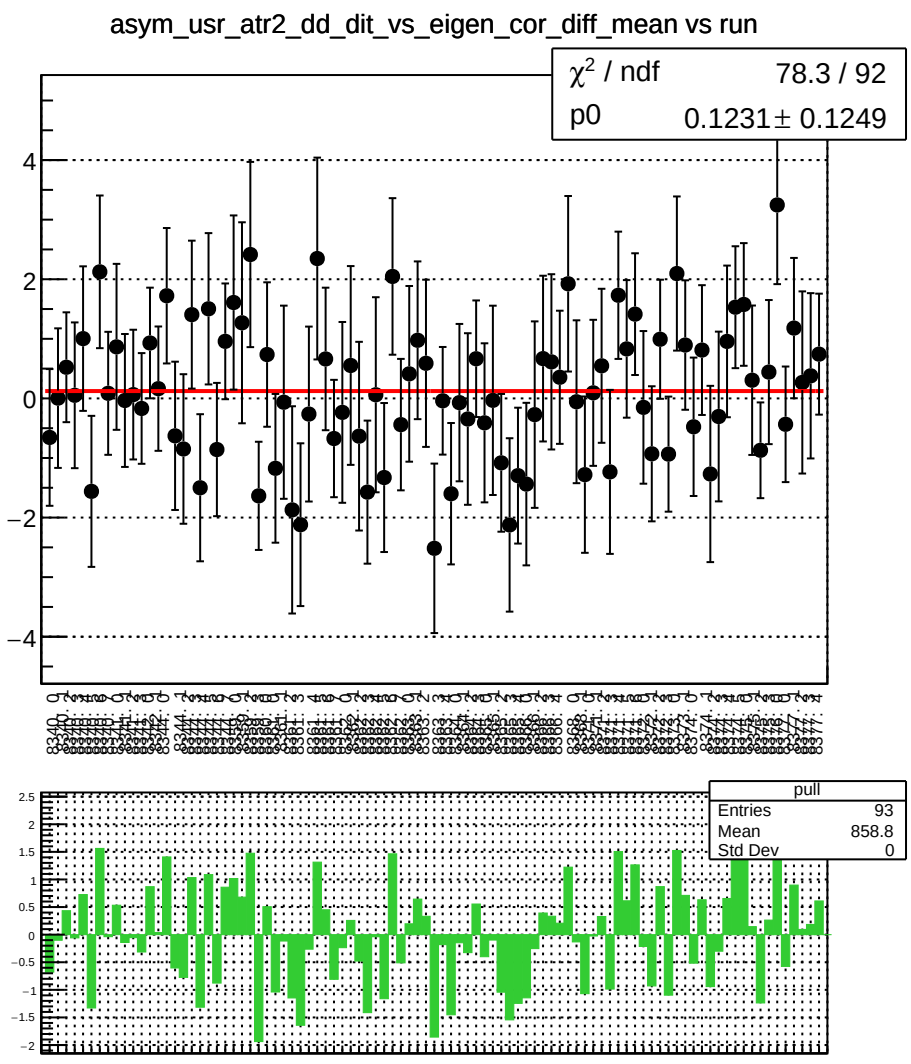

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76 / 92
p0 −5.147e−13 ± 7.226e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean −288.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.006838
Std Dev 0.904
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

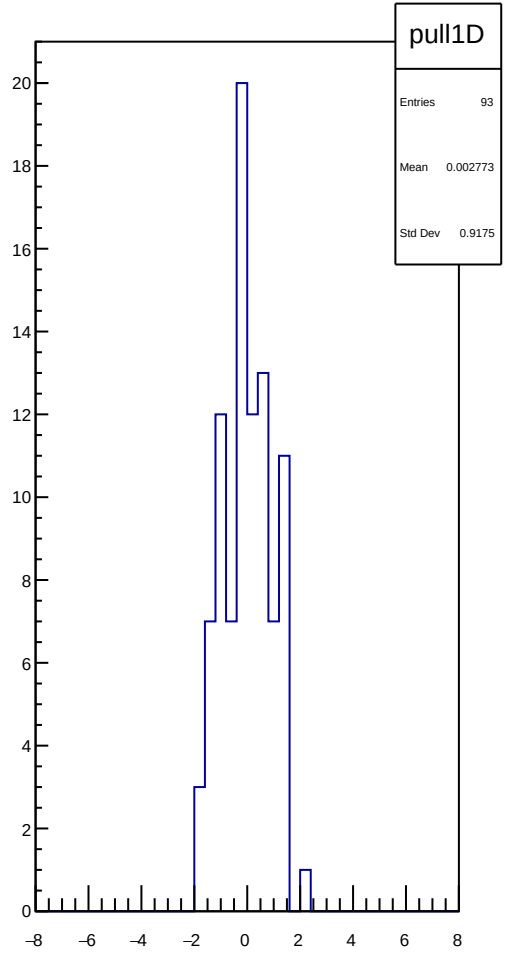

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 92
p0 4.367e−10 ± 5.11e−13
1
0.8
0.6
0.4
0.2
0

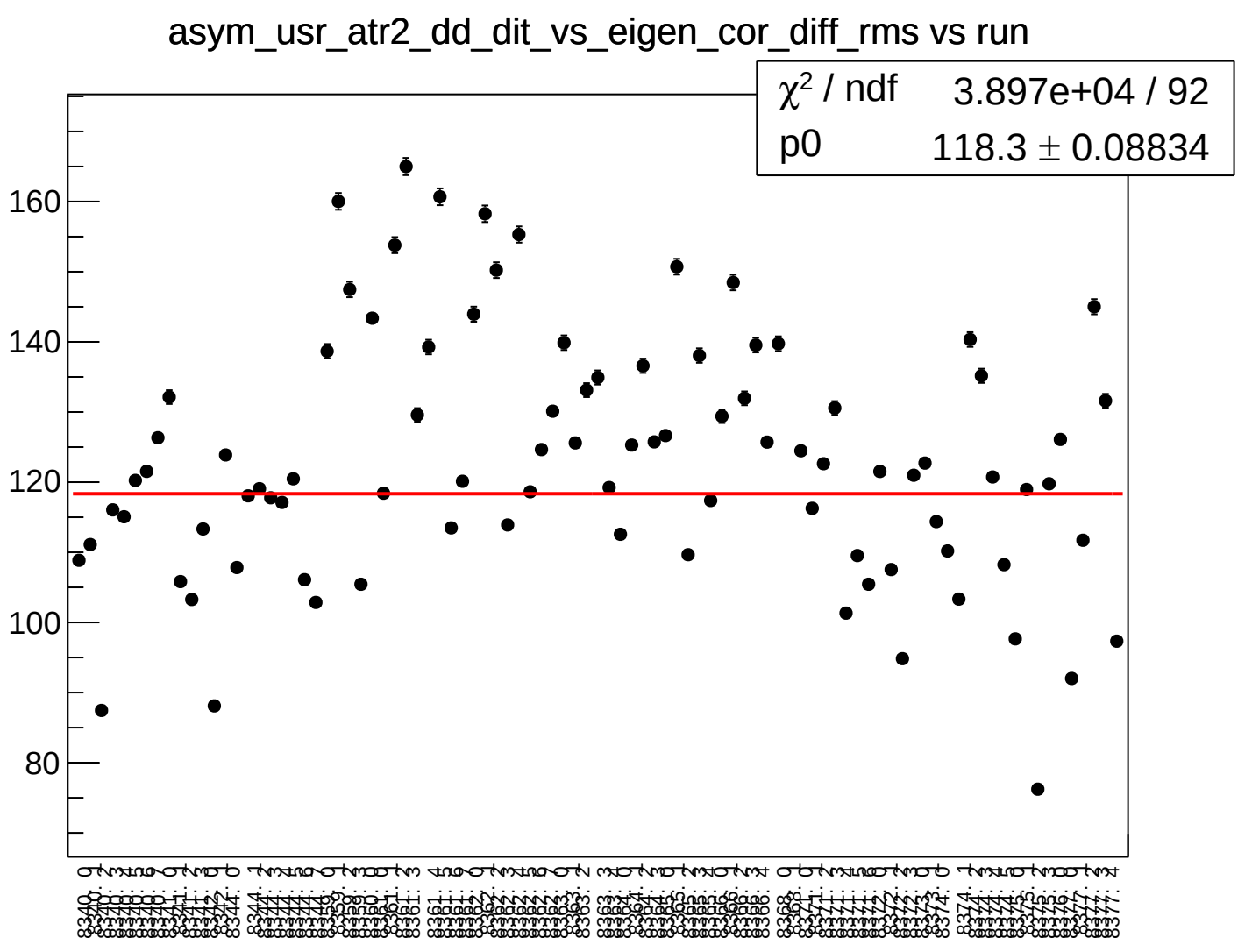

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 92
p0 0.1231 ± 0.1249
pull
Entries 93
Mean 858.8
Std Dev 0

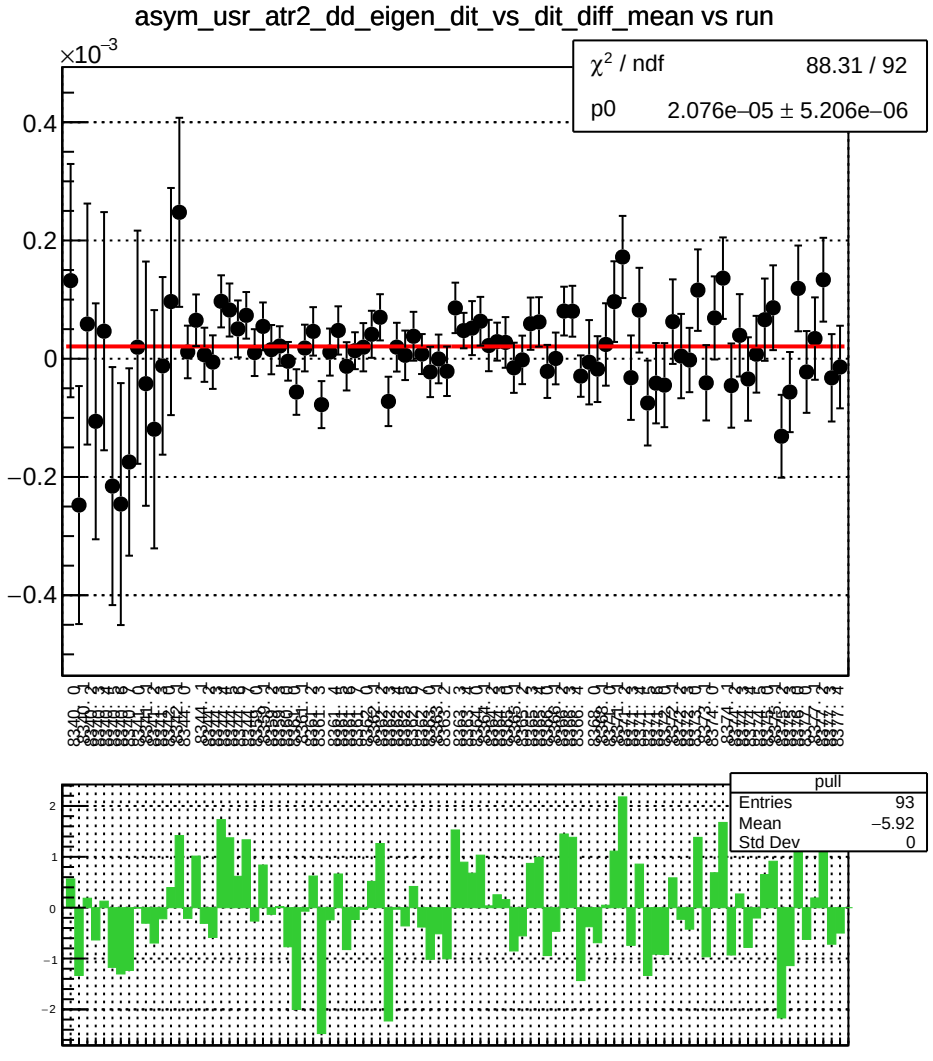

pull1D
Entries 93
Mean 0.002773
Std Dev 0.9175

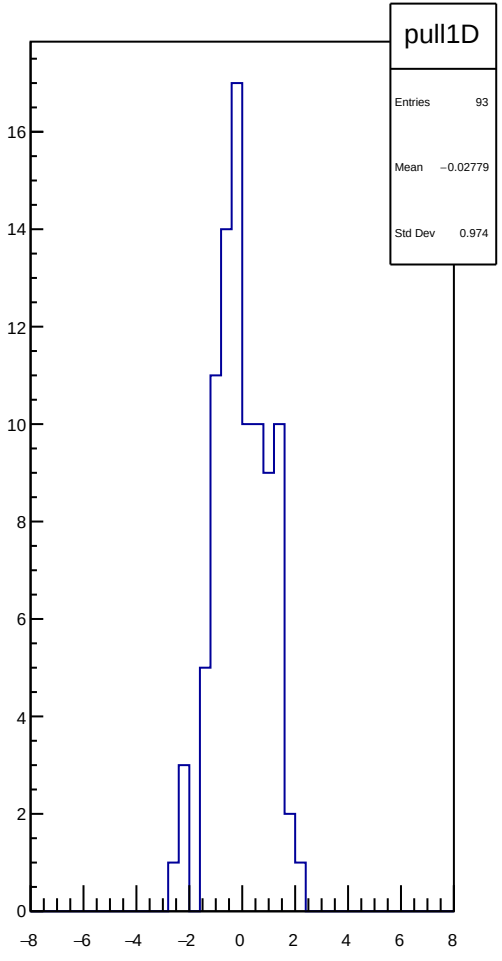

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.897e+04 / 92
p0 118.3 ± 0.08834
160
140
120
100
80

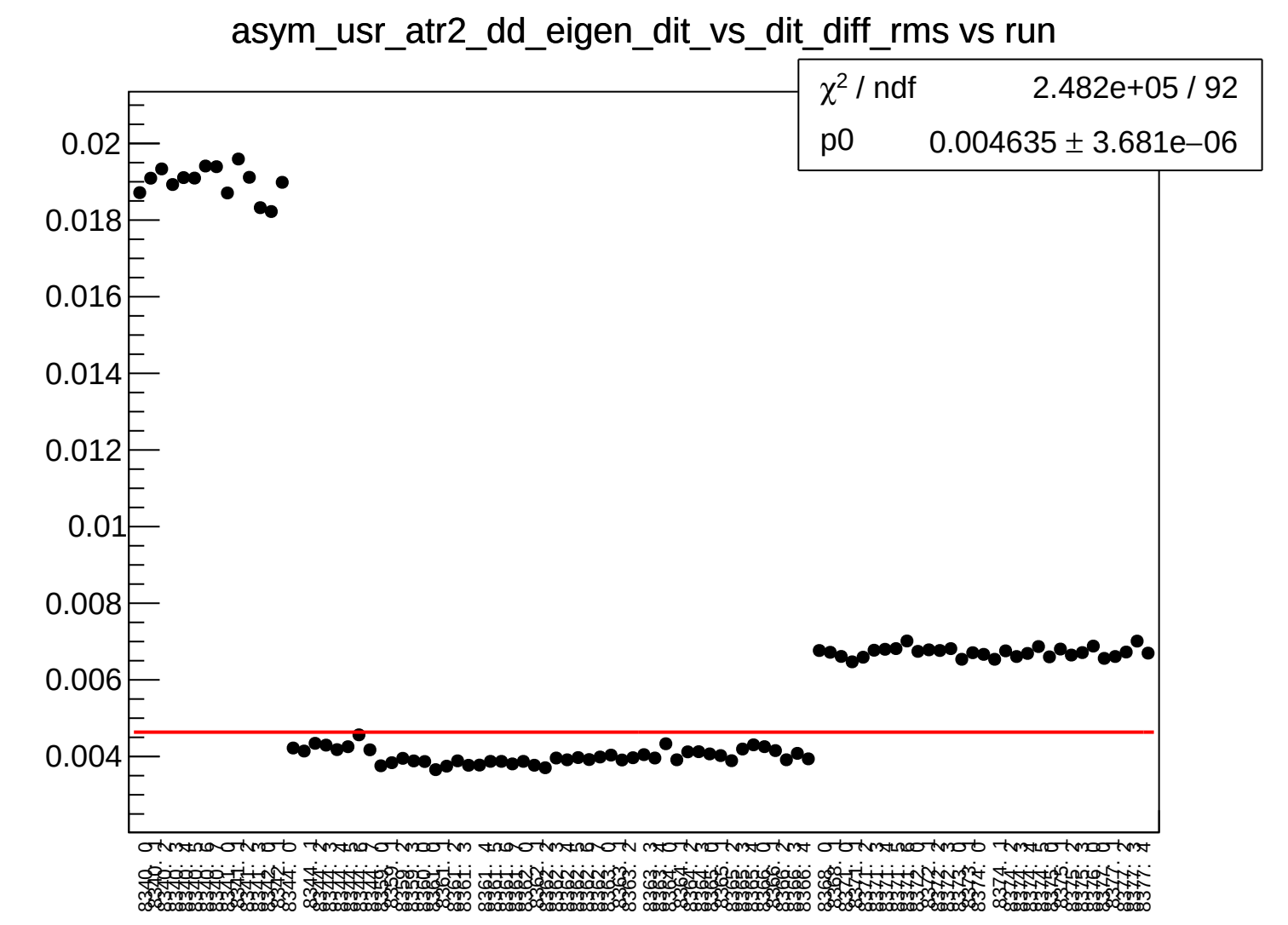

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.3 / 92
p0 0.1231 ± 0.1249
pull
Entries 93
Mean 858.8
Std Dev 0

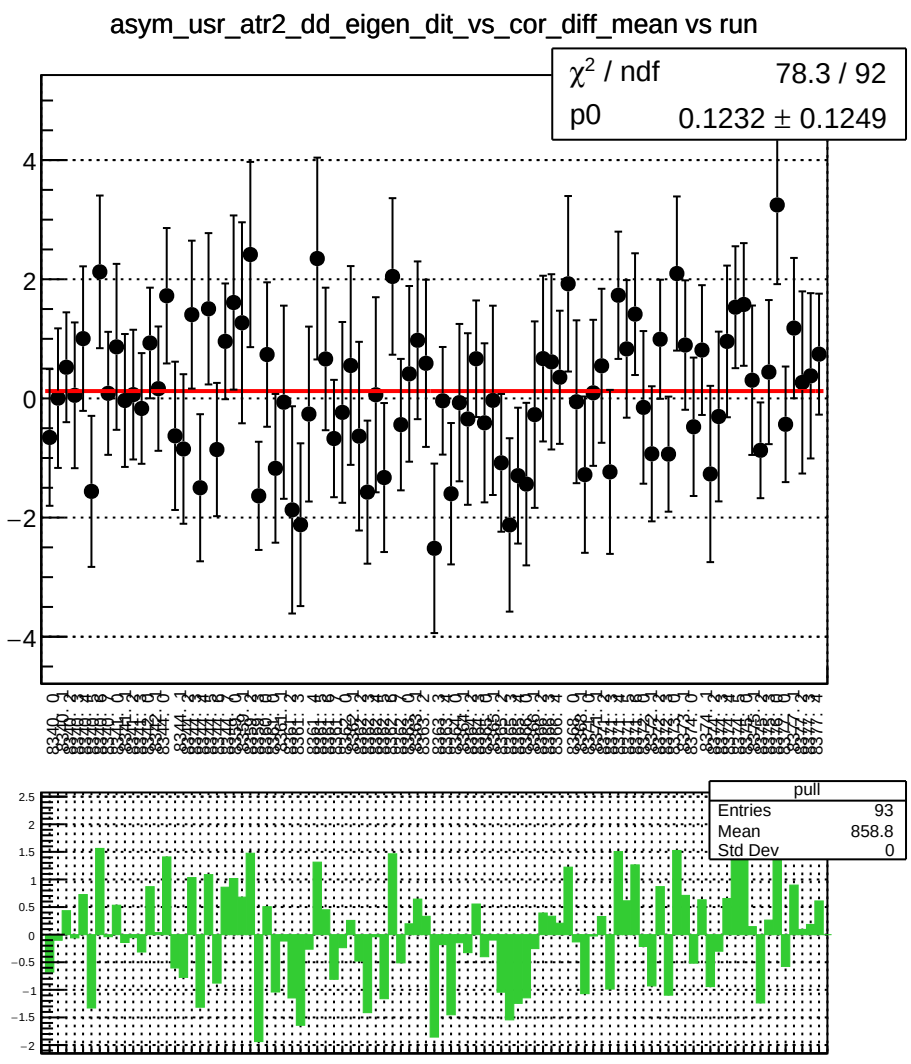

pull1D
Entries 93
Mean 0.002773
Std Dev 0.9175

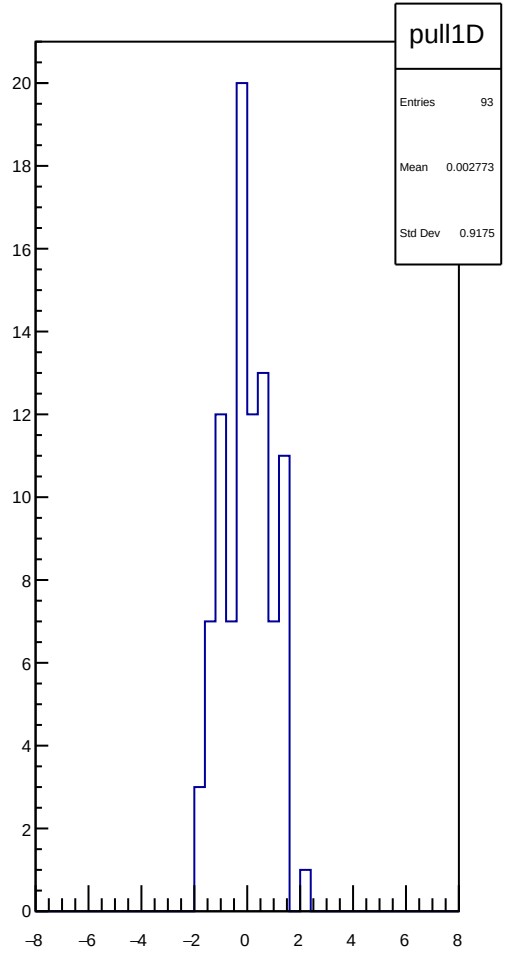

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.897e+04 / 92
p0 118.3 ± 0.08834
160
140
120
100
80

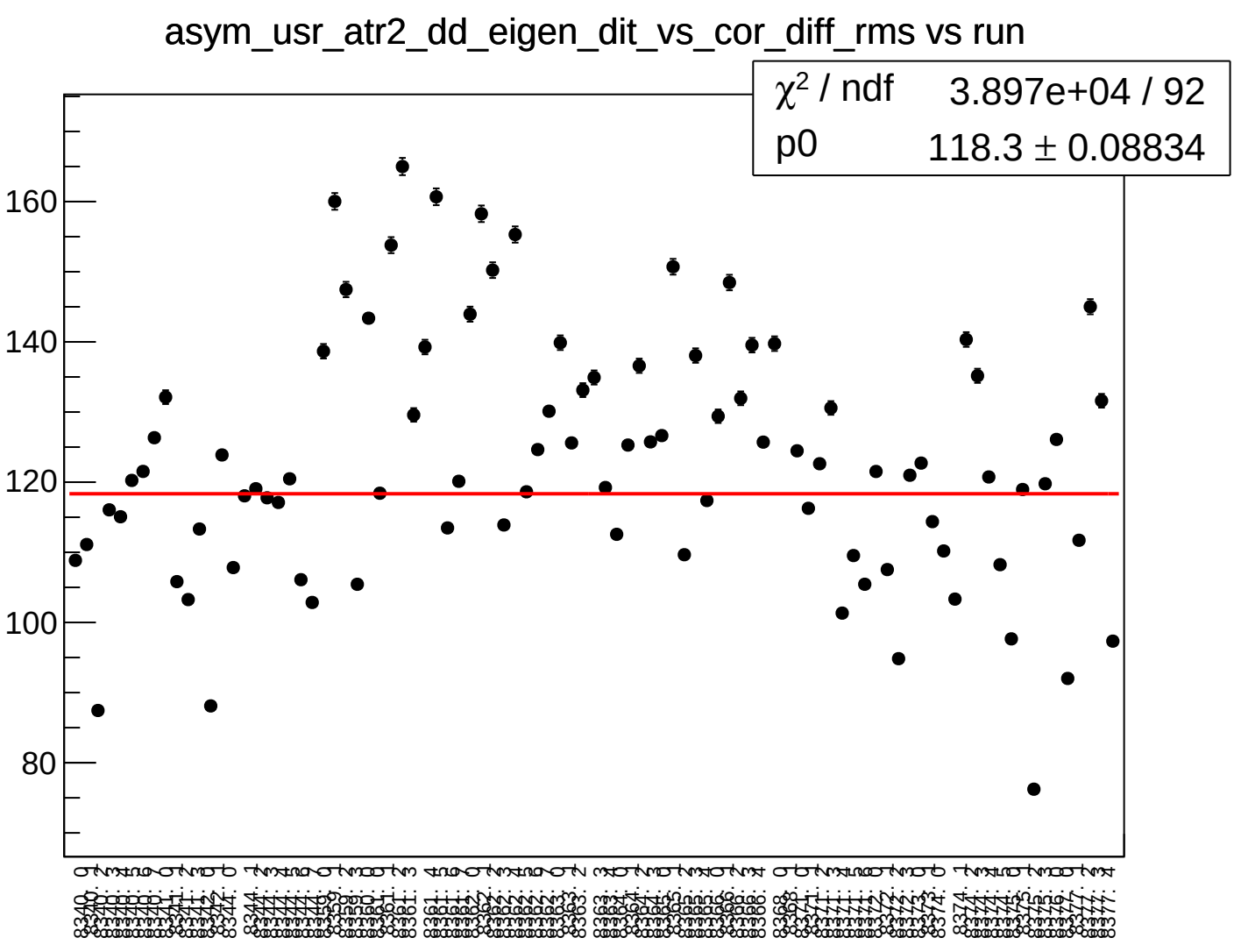

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.31 / 92
p0 2.076e−05 ± 5.206e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean −5.92
Std Dev 0
2
1
0
−1
−2

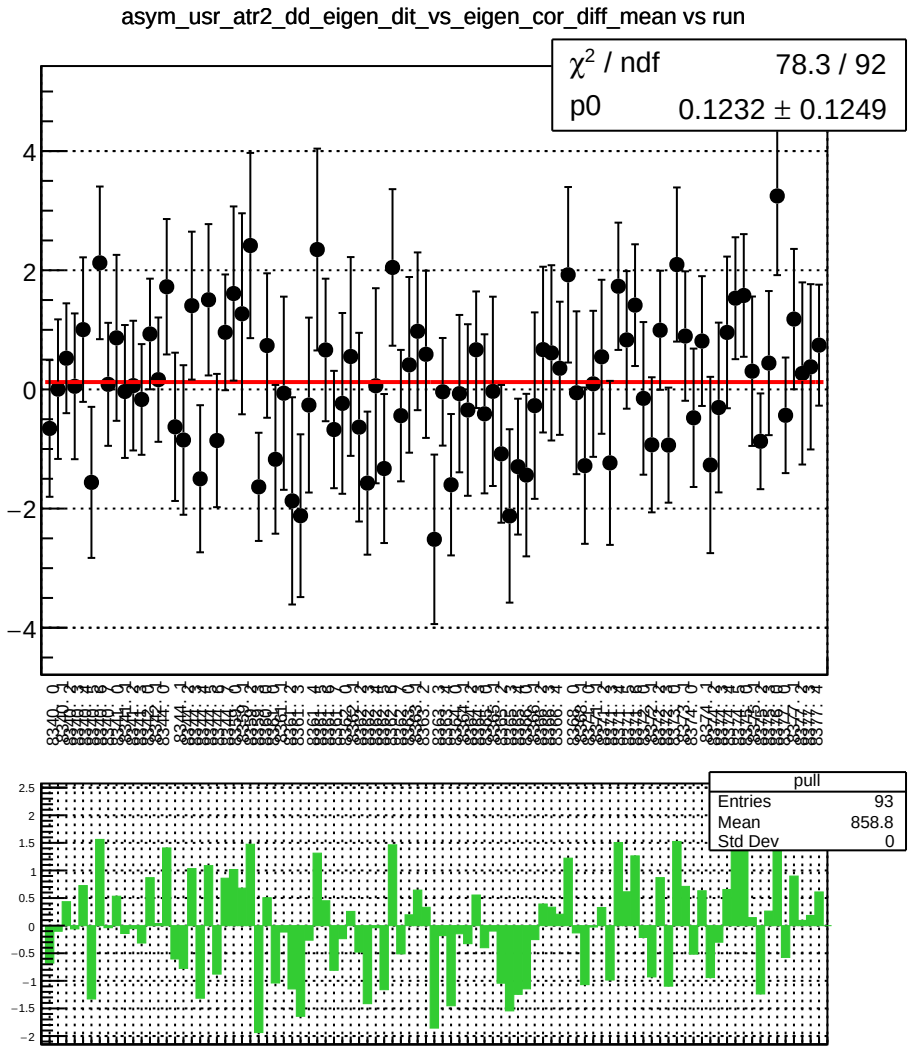

pull1D
Entries 93
Mean −0.02779
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

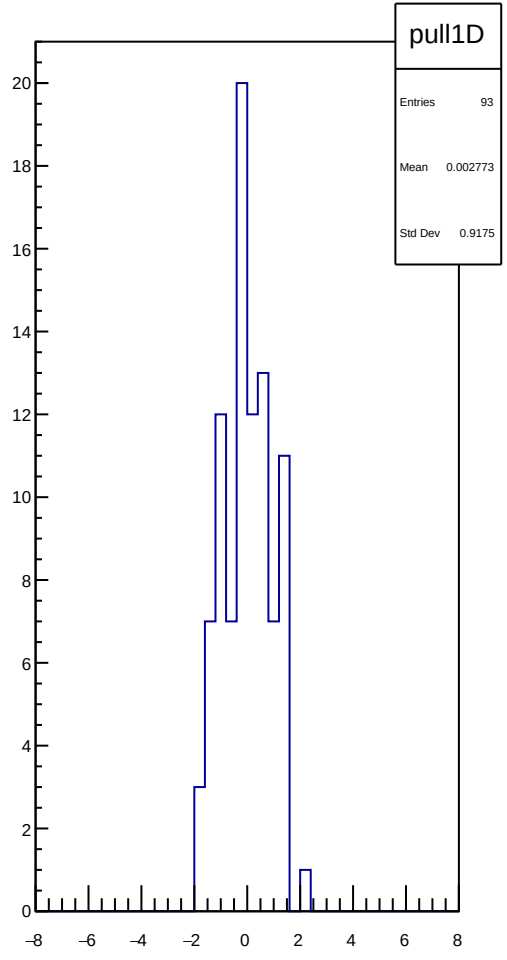

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.482e+05 / 92
p0 0.004635 ± 3.681e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

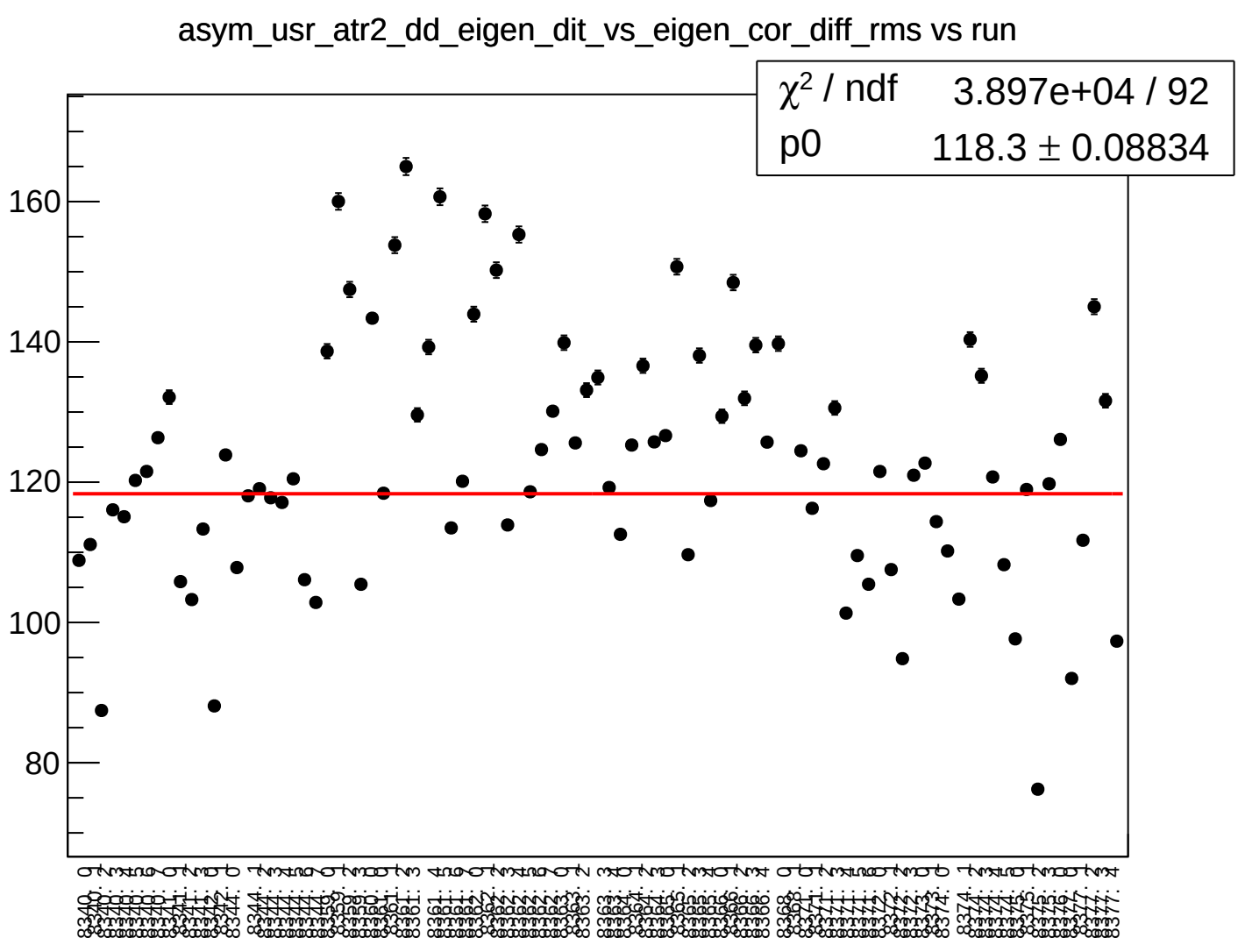

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.3 / 92
p0 0.1232 ± 0.1249
pull
Entries 93
Mean 858.8
Std Dev 0

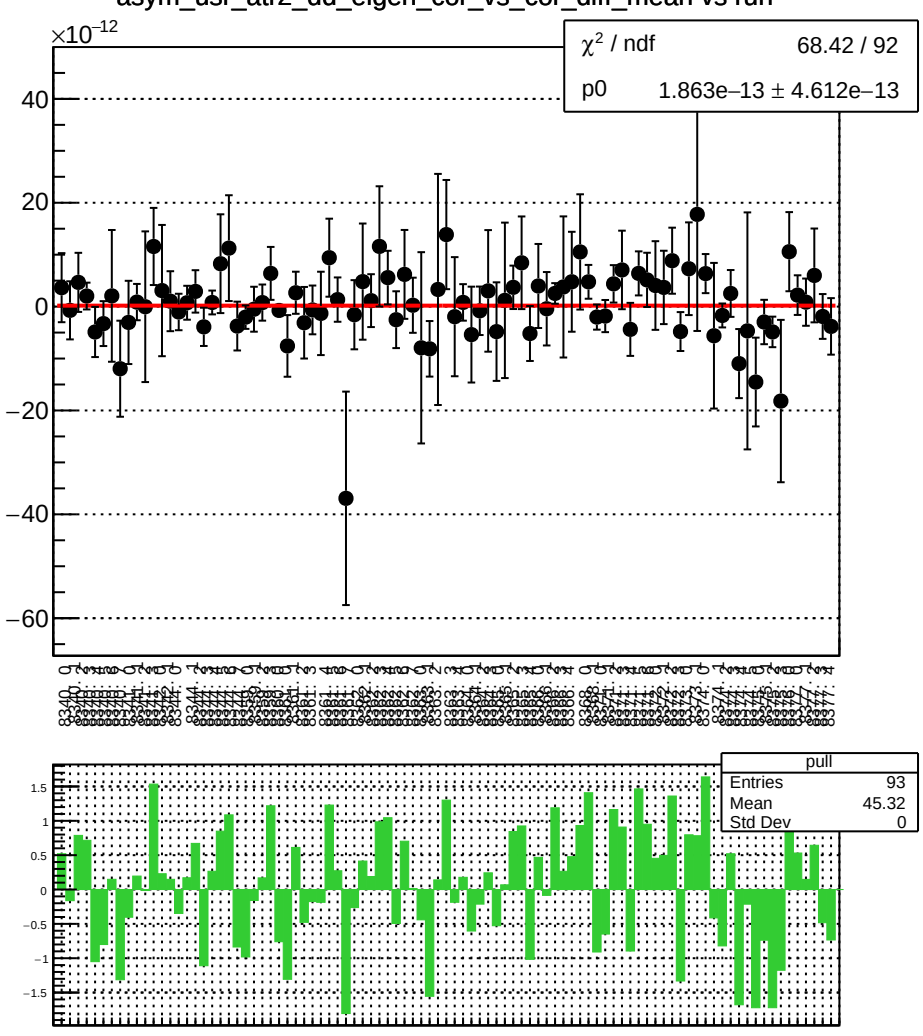

pull1D
Entries 93
Mean 0.002773
Std Dev 0.9175

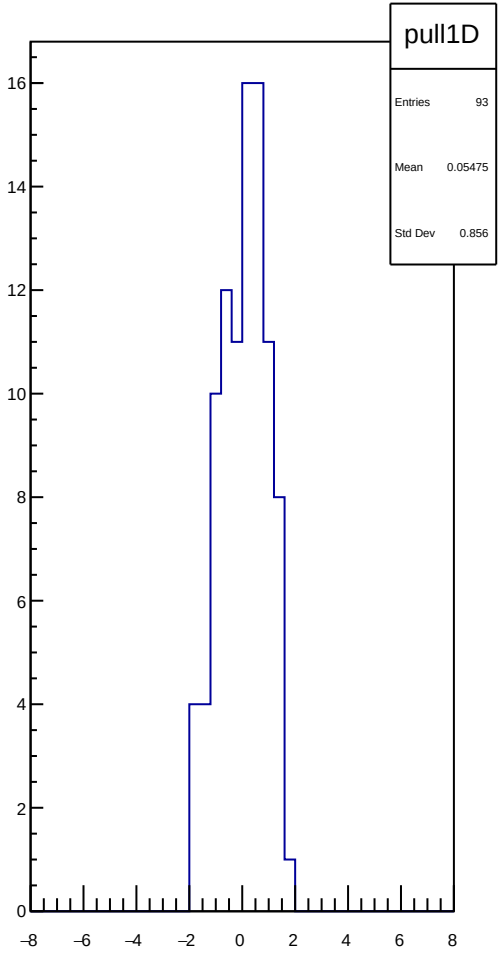

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.897e+04 / 92
p0 118.3 ± 0.08834
160
140
120
100
80

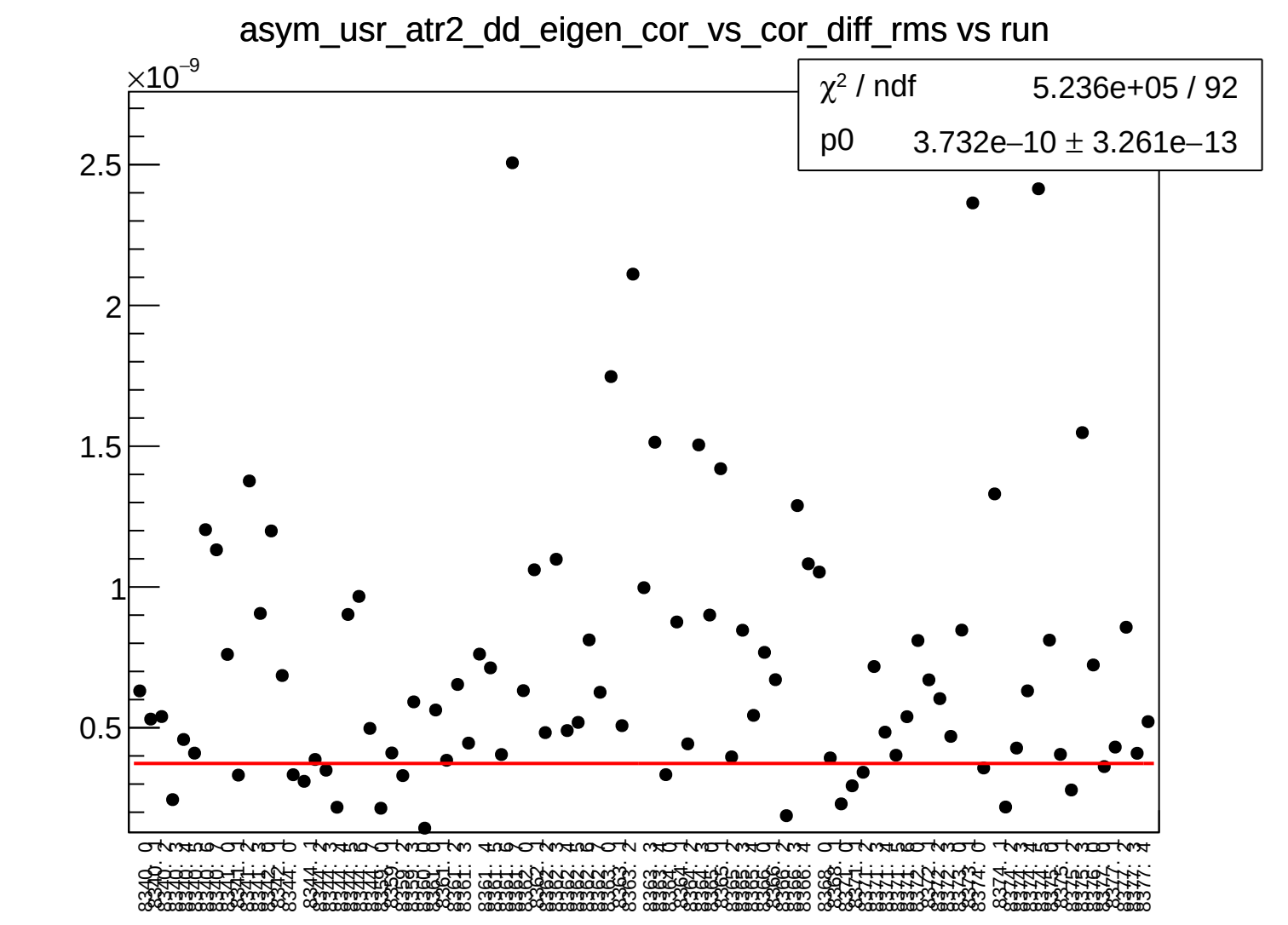

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.3 / 92
p0 0.1232 ± 0.1249
pull
Entries 93
Mean 858.8
Std Dev 0

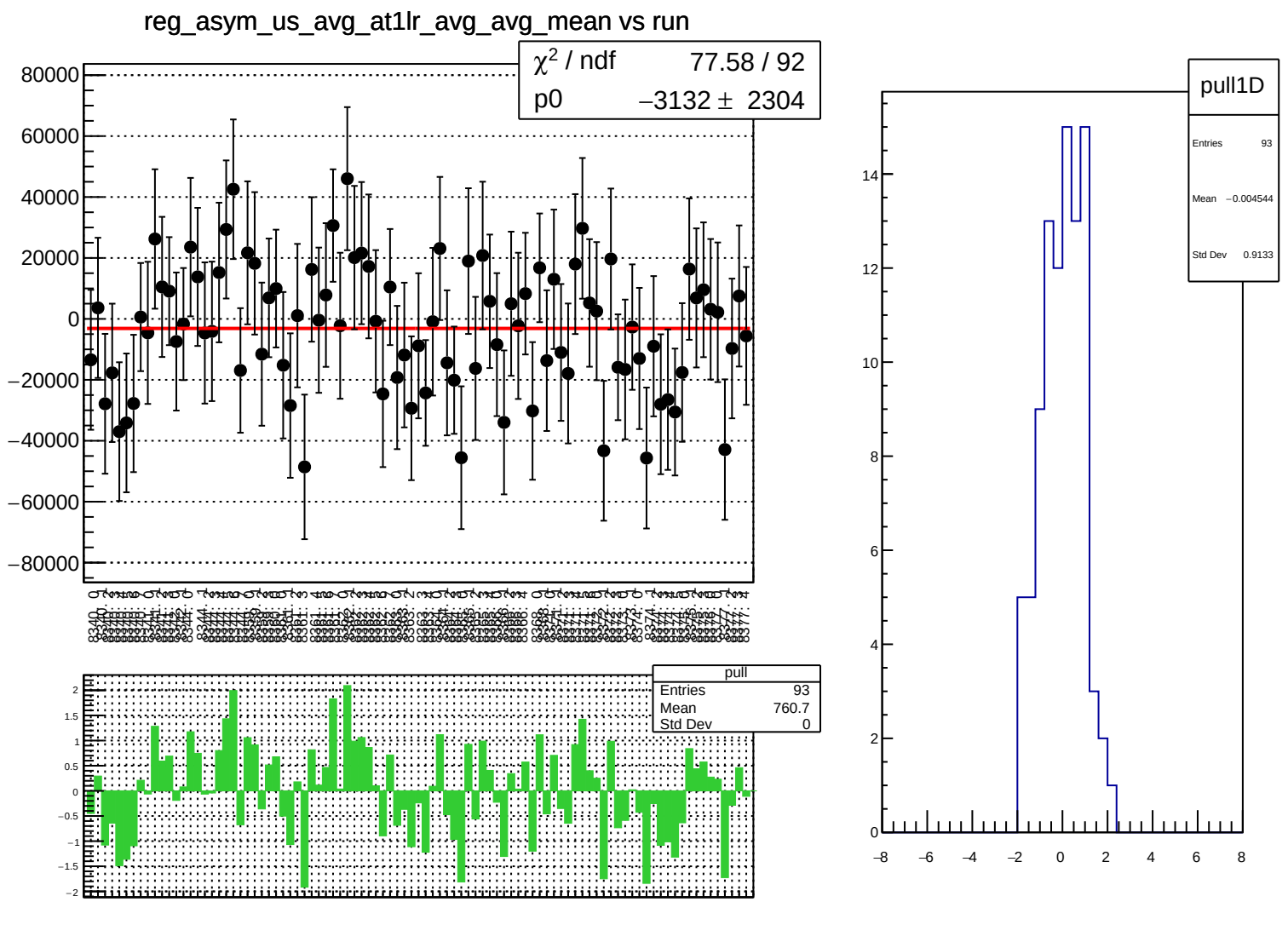

pull1D
Entries 93
Mean 0.002773
Std Dev 0.9175

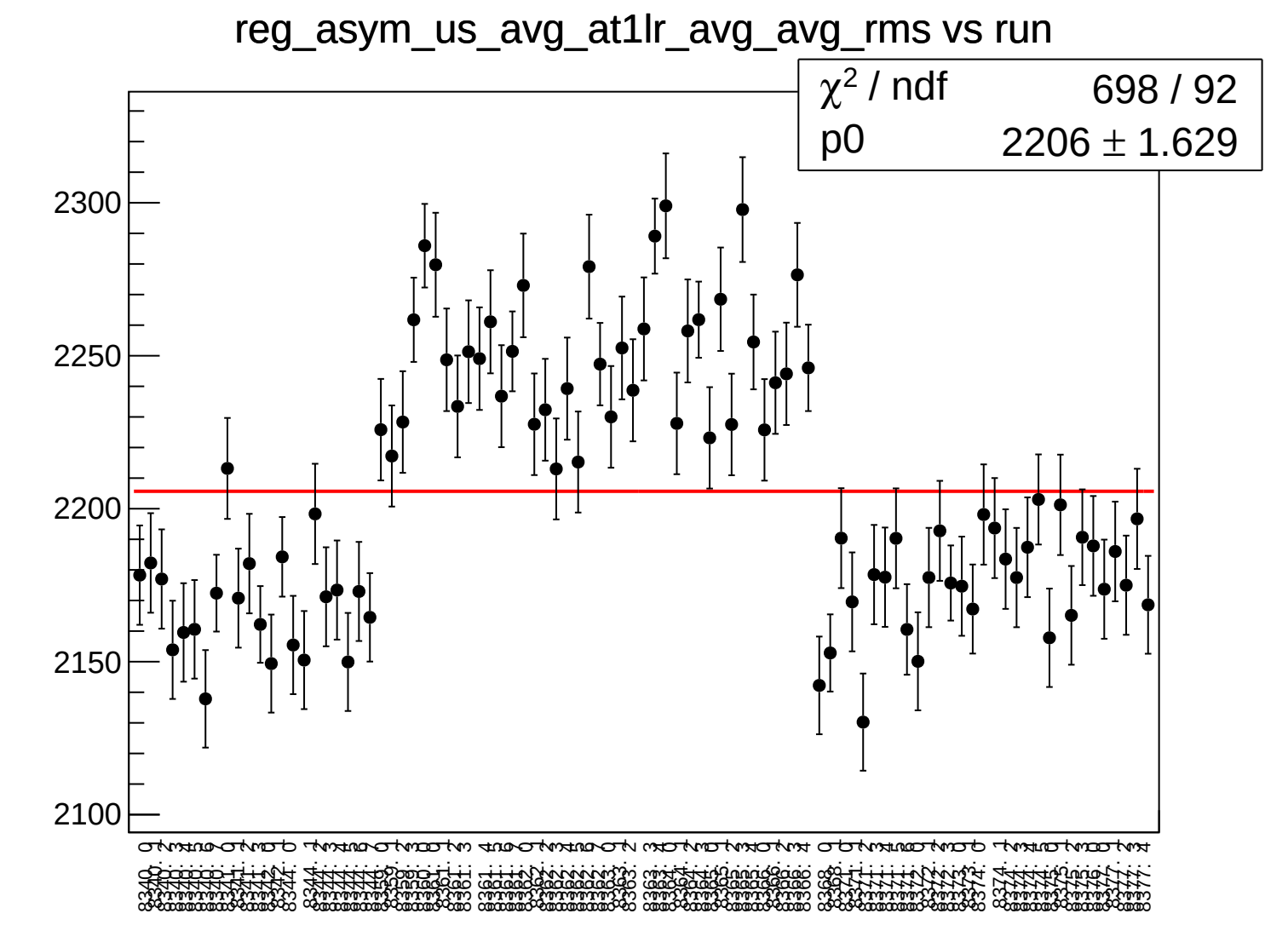

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.897e+04 / 92
p0 118.3 ± 0.08834
160
140
120
100
80

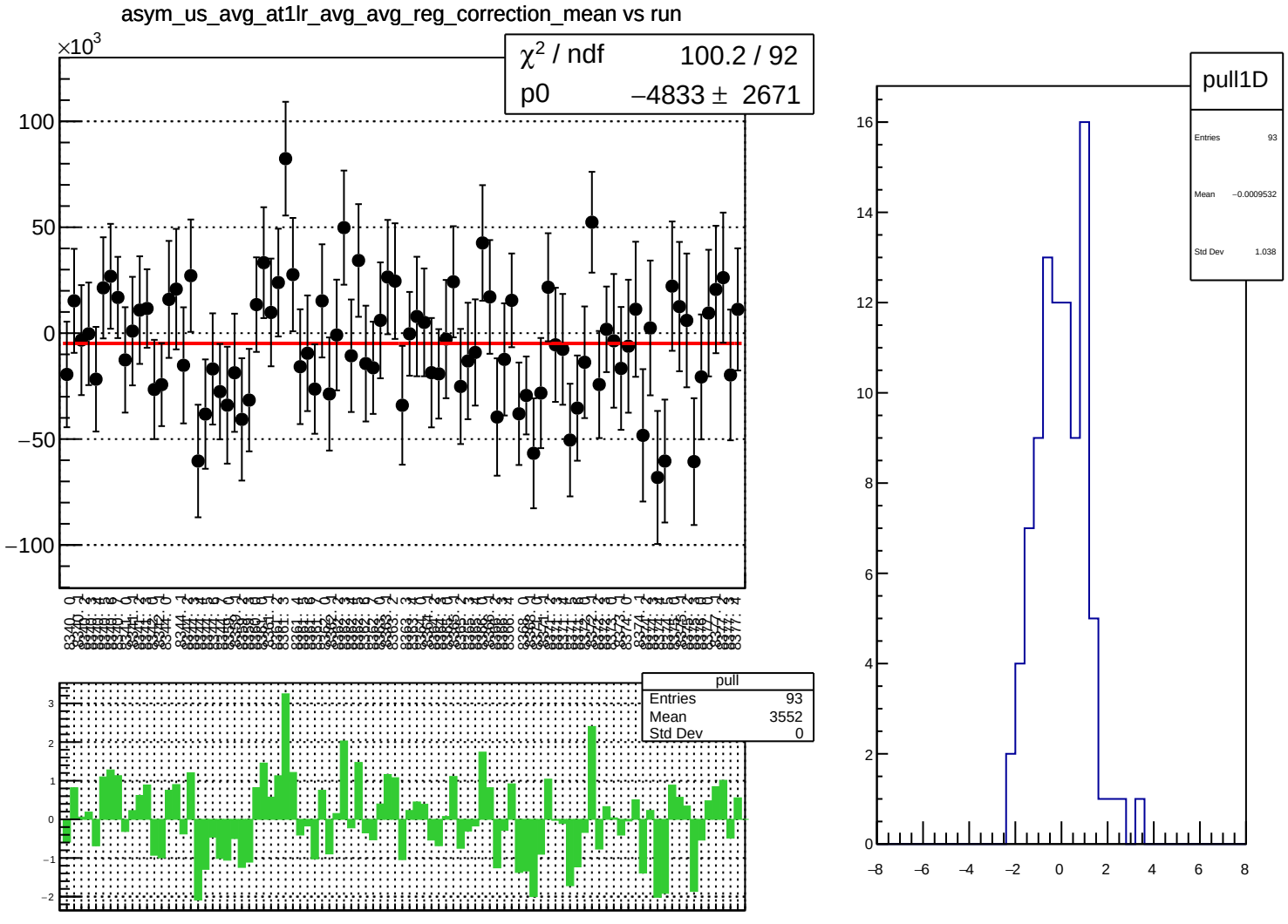

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 68.42 / 92
p0 1.863e−13 ± 4.612e−13
pull
Entries 93
Mean 45.32
Std Dev 0

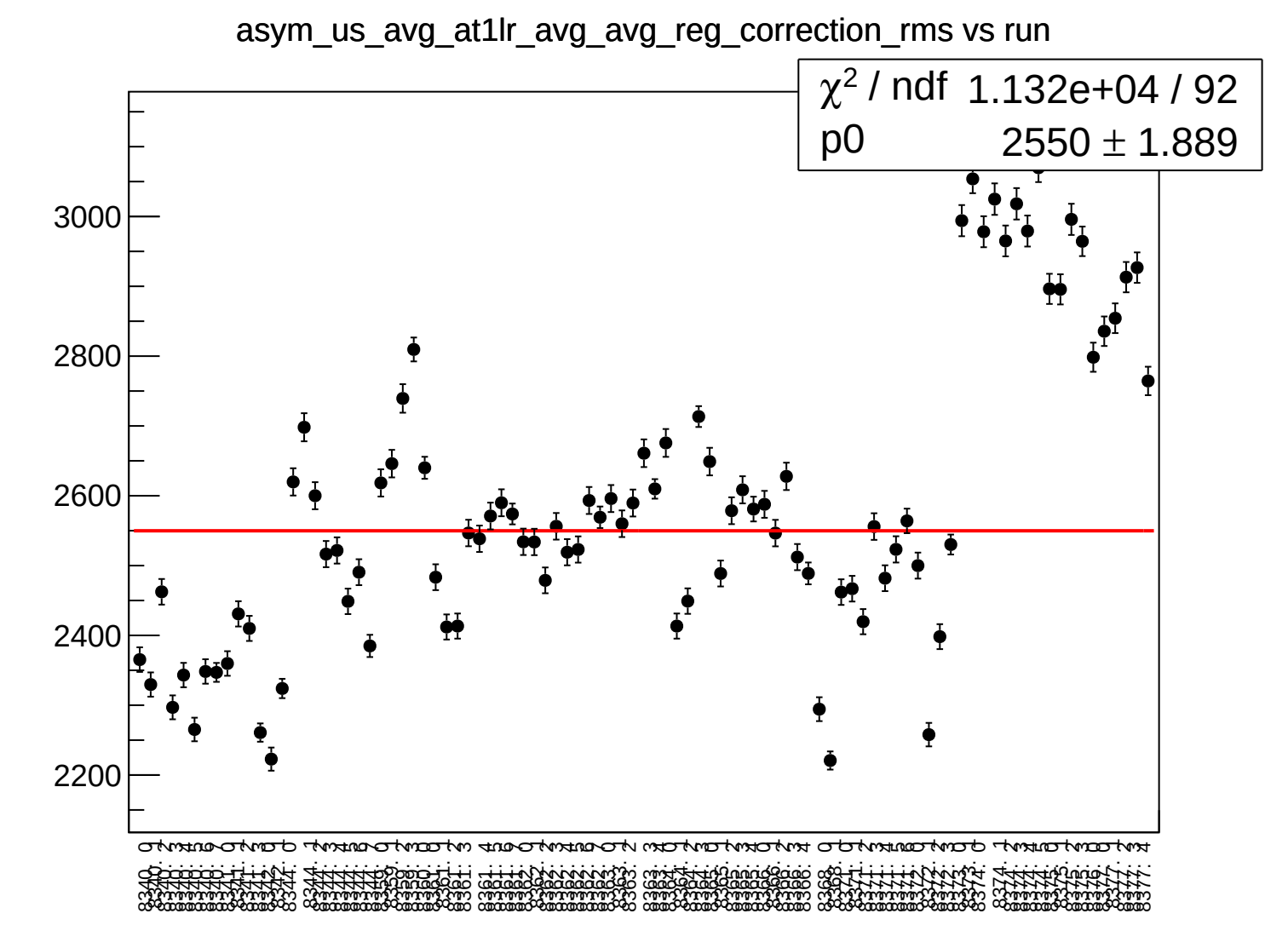

pull1D
Entries 93
Mean 0.05475
Std Dev 0.856

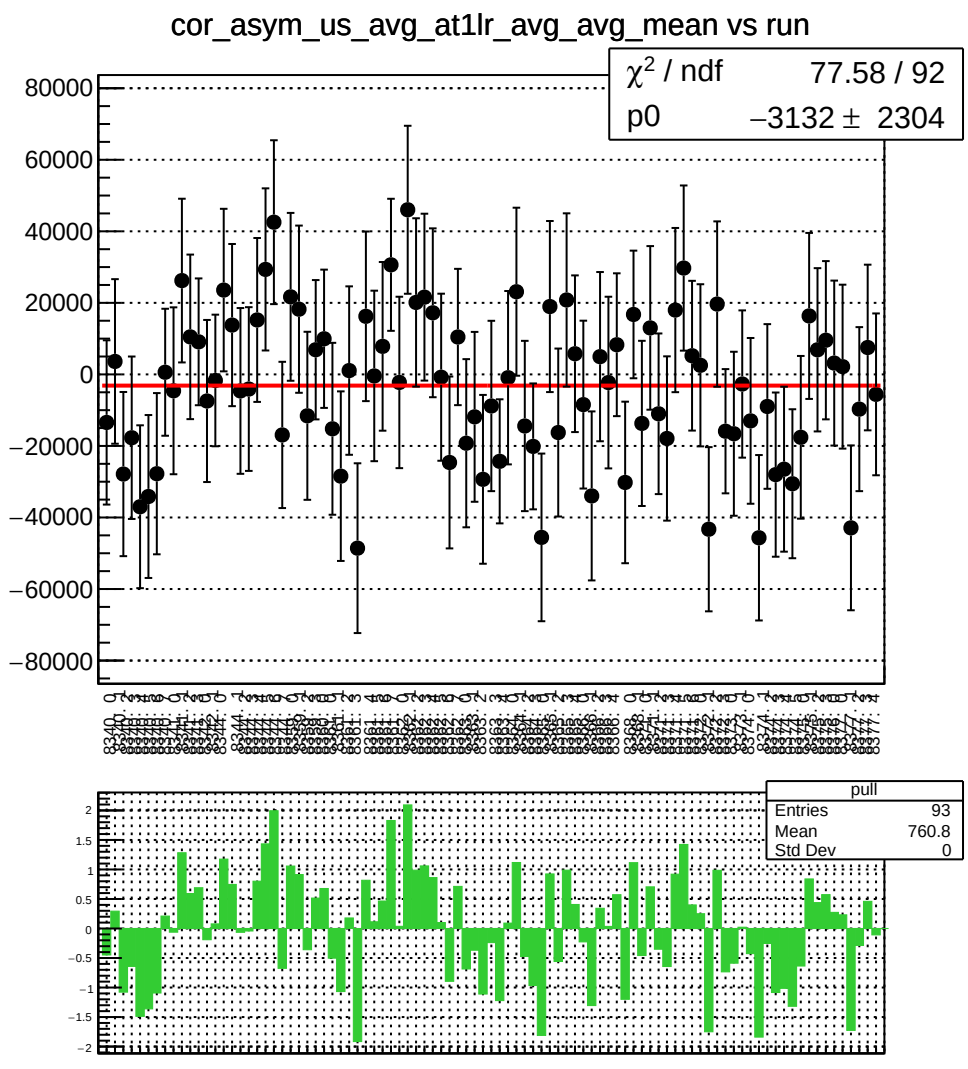

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.236e+05 / 92
p0 3.732e−10 ± 3.261e−13
2.5
2
1.5
1
0.5

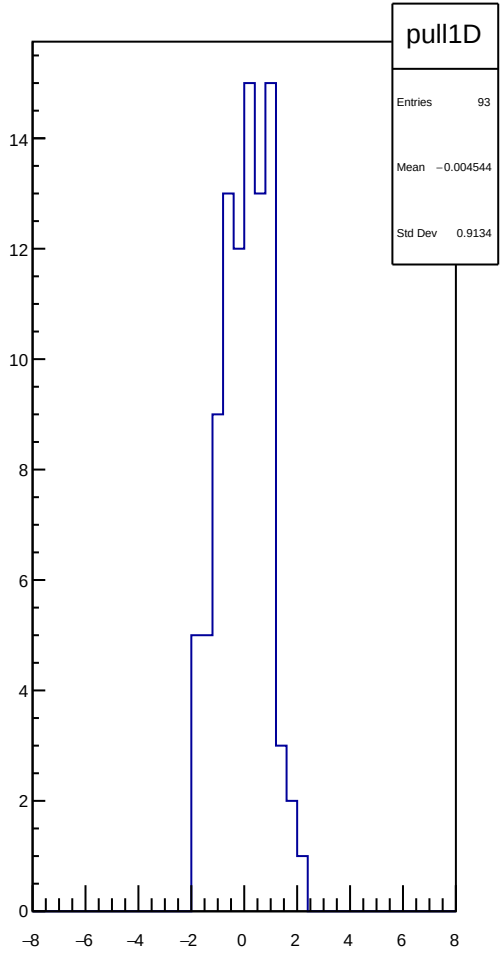

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 77.58 / 92
p0 −3132 ± 2304
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 760.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.004544
Std Dev 0.9133
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

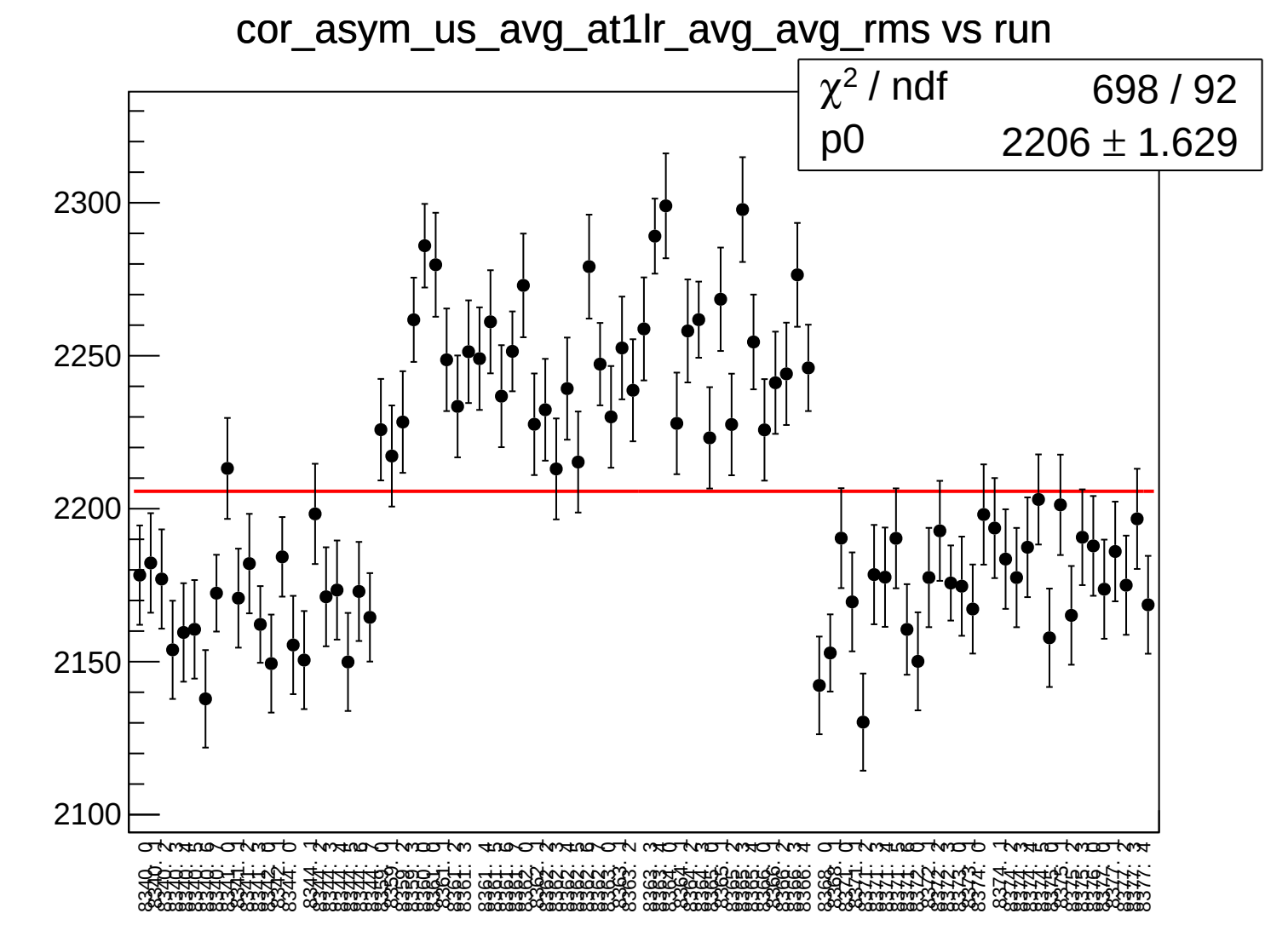

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 698 / 92
p0 2206 ± 1.629
2300
2250
2200
2150
2100

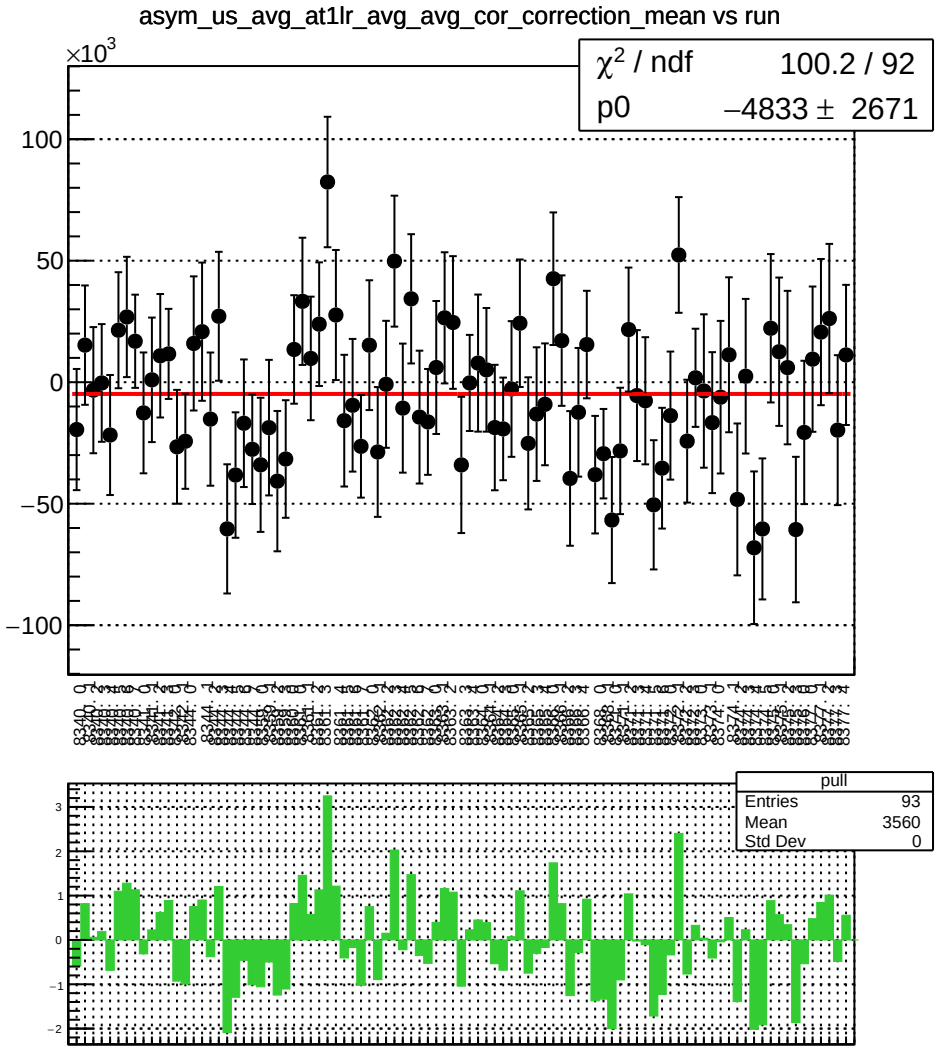

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 100.2 / 92
p0 −4833 ± 2671
100
50
0
−50
−100
pull
Entries 93
Mean 3552
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0009532
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

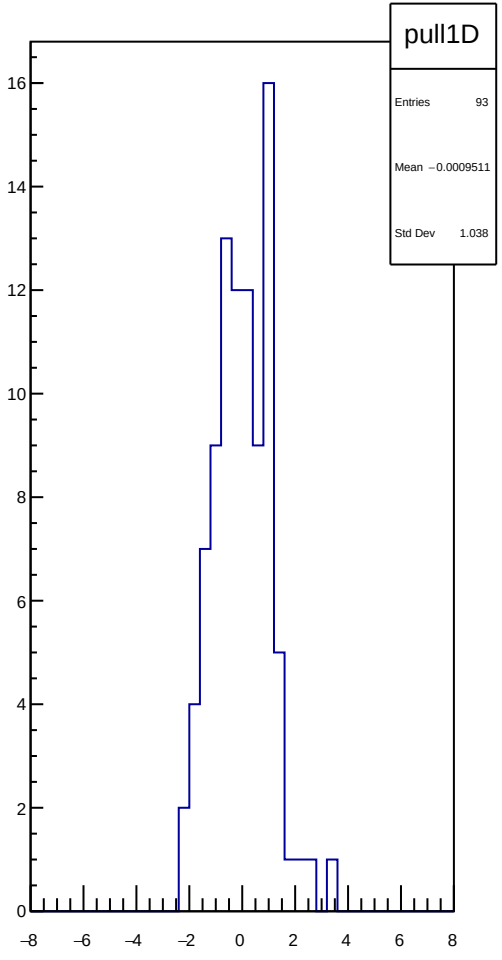

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.132e+04 / 92
p0 2550 ± 1.889
3000
2800
2600
2400
2200

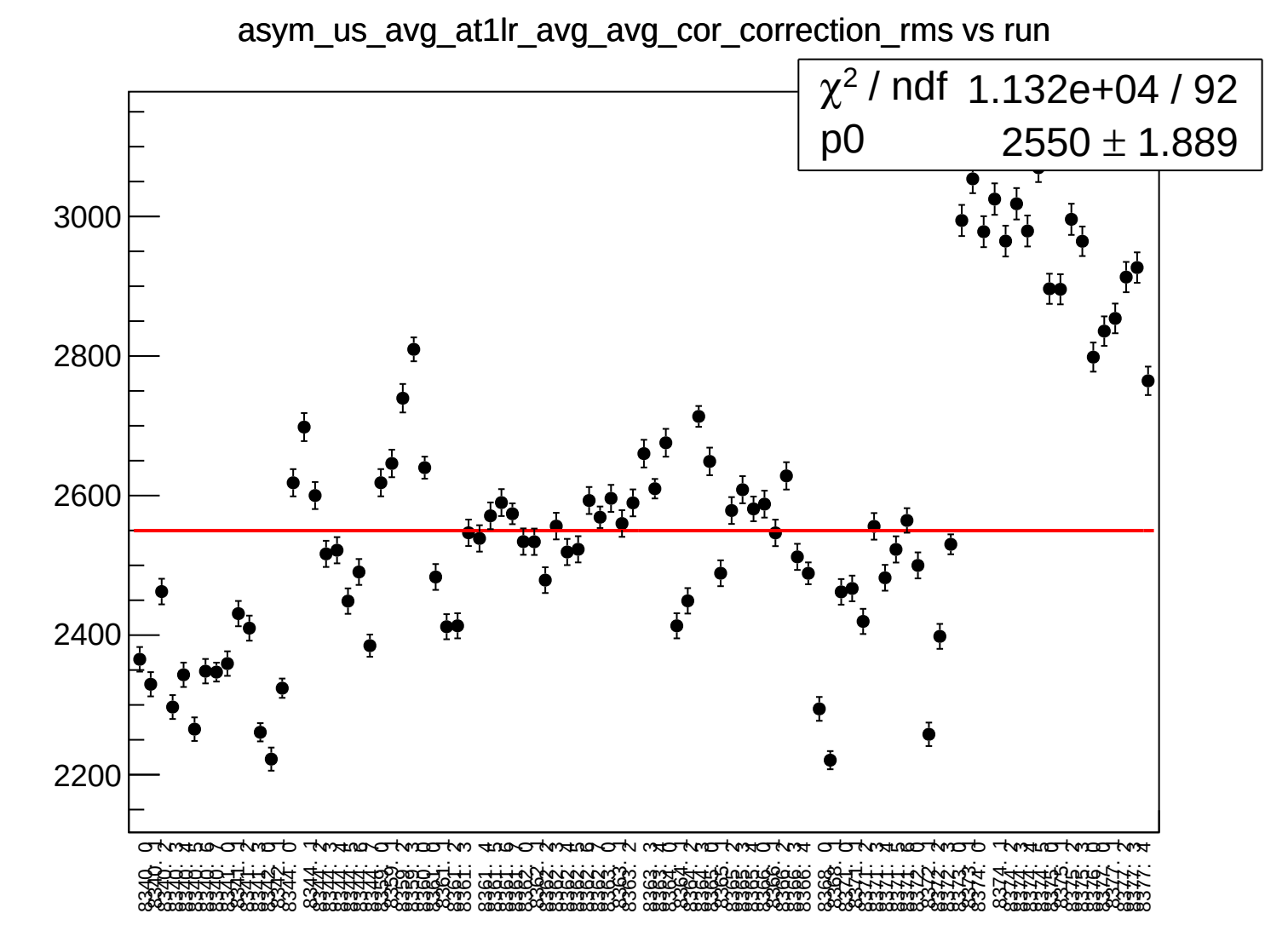

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 77.58 / 92
p0 −3132 ± 2304
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 760.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

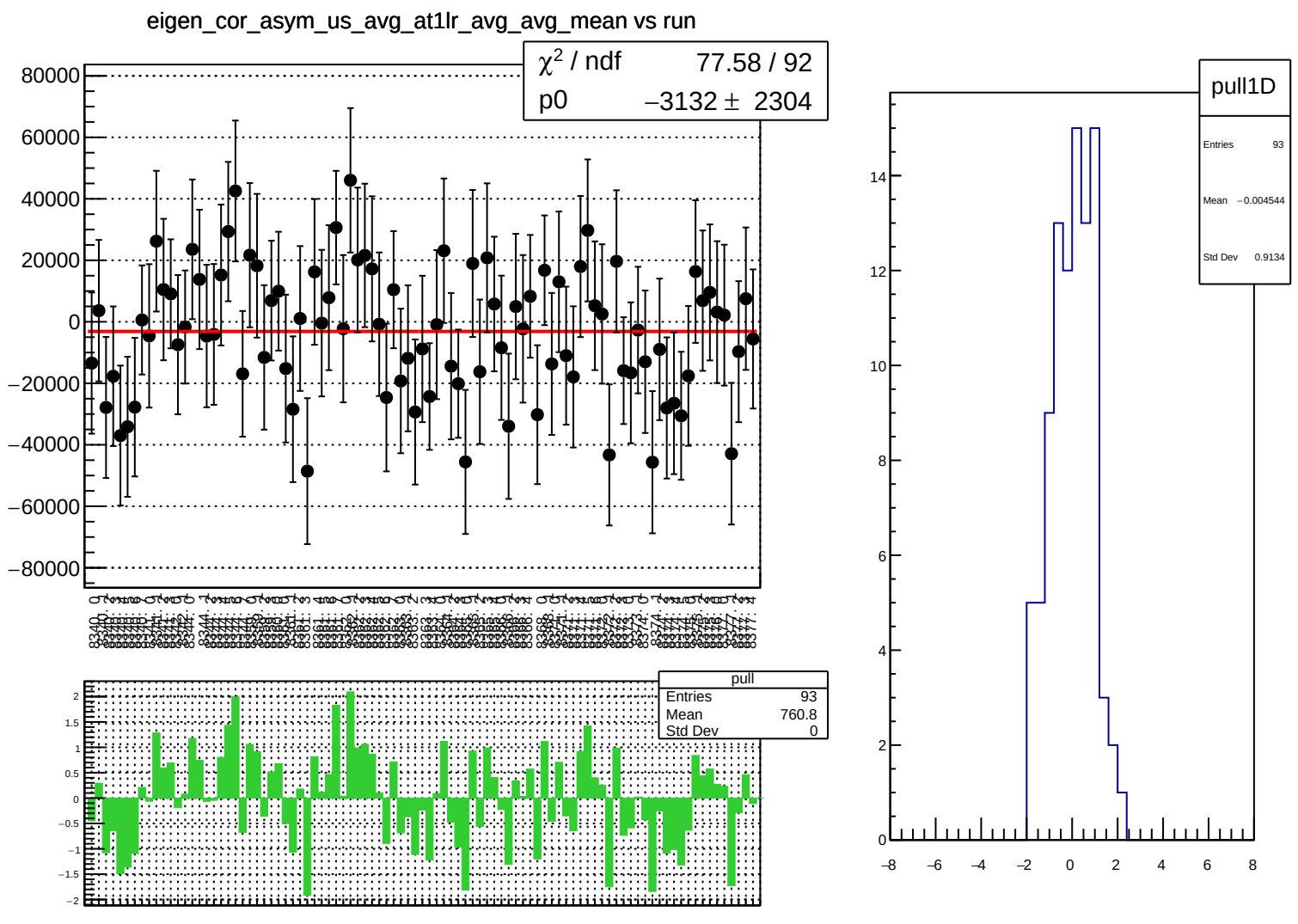

pull1D
Entries 93
Mean −0.004544
Std Dev 0.9134
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

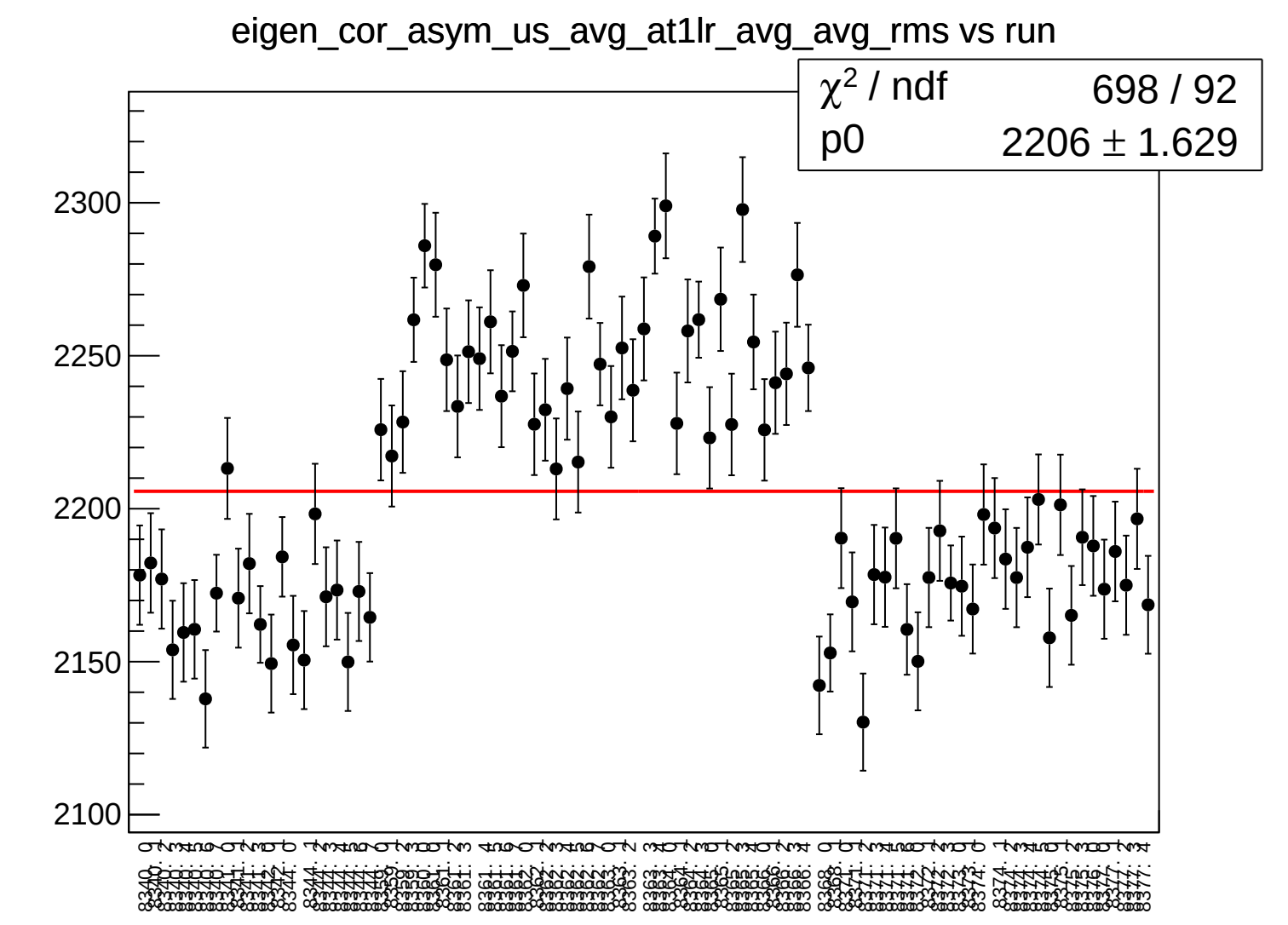

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 698 / 92
p0 2206 ± 1.629
2300
2250
2200
2150
2100

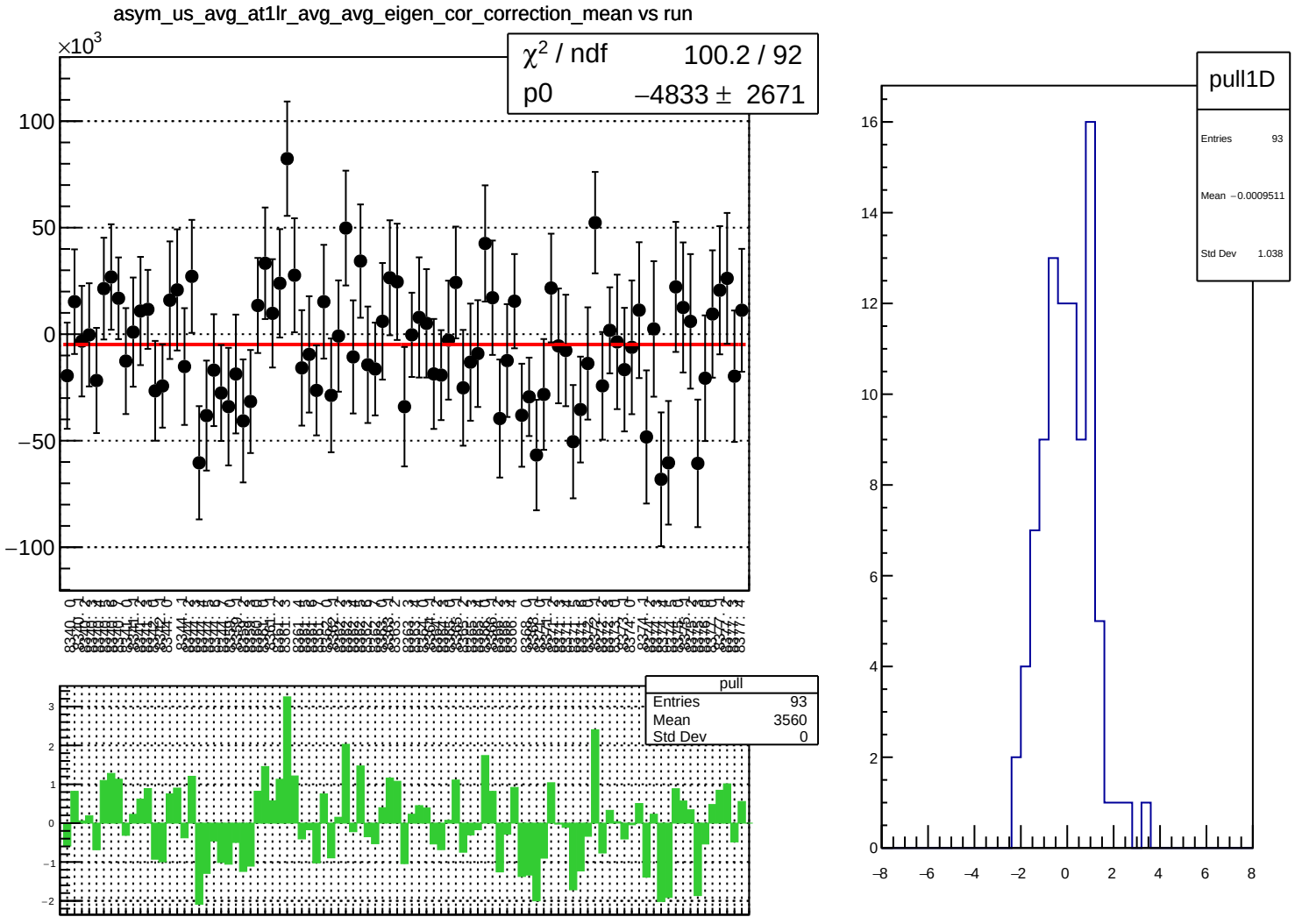

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 100.2 / 92
p0 −4833 ± 2671
100
50
0
−50
−100
pull
Entries 93
Mean 3560
Std Dev 0
3
2
1
0
−1
−2

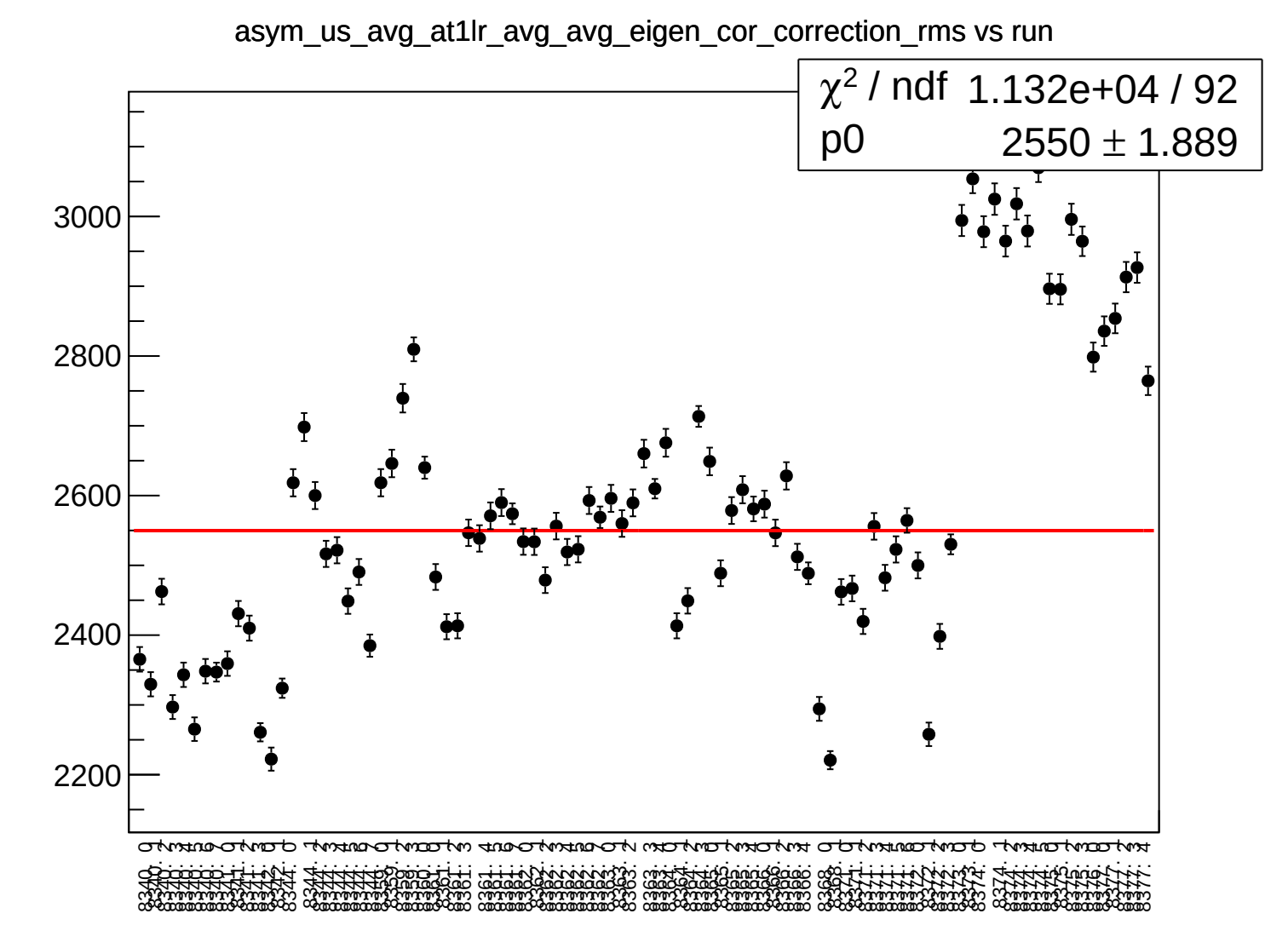

pull1D
Entries 93
Mean −0.0009511
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

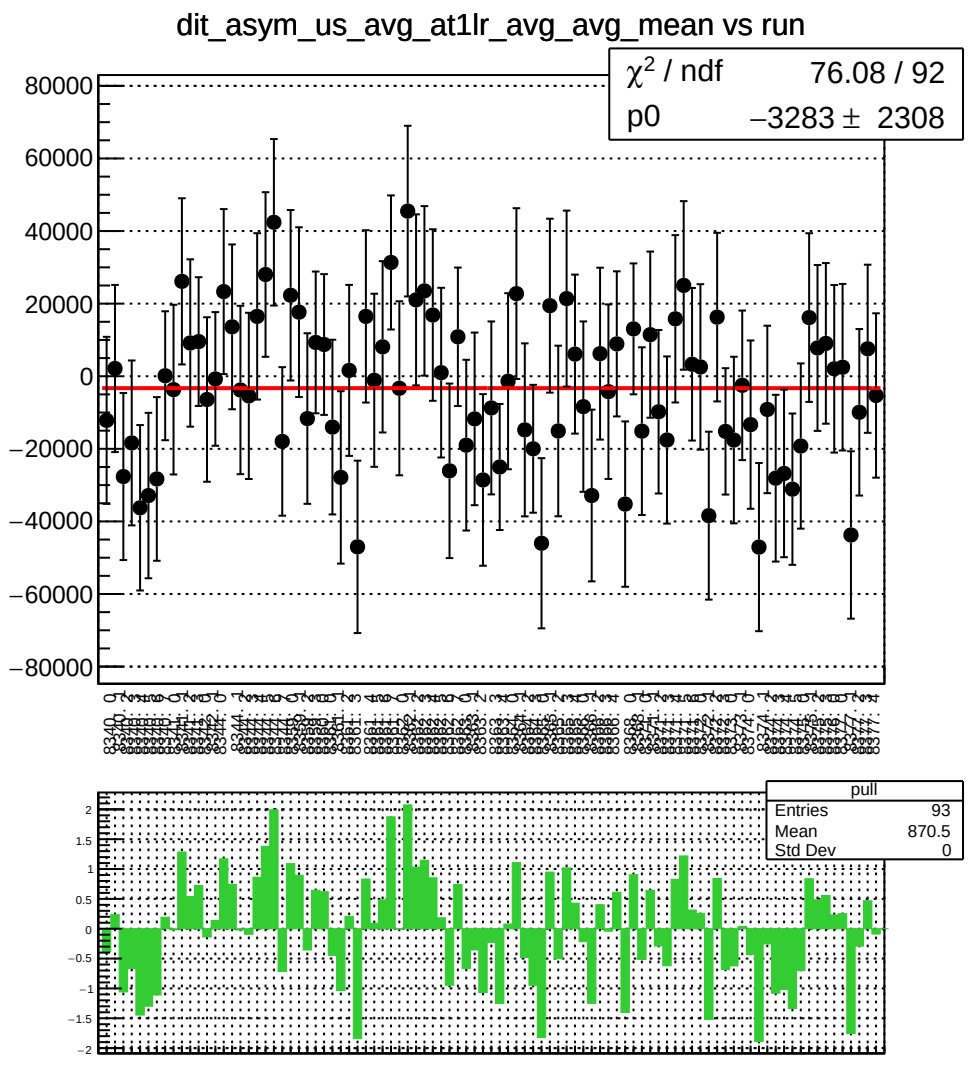

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 92
p0 2550 ± 1.889
3000
2800
2600
2400
2200

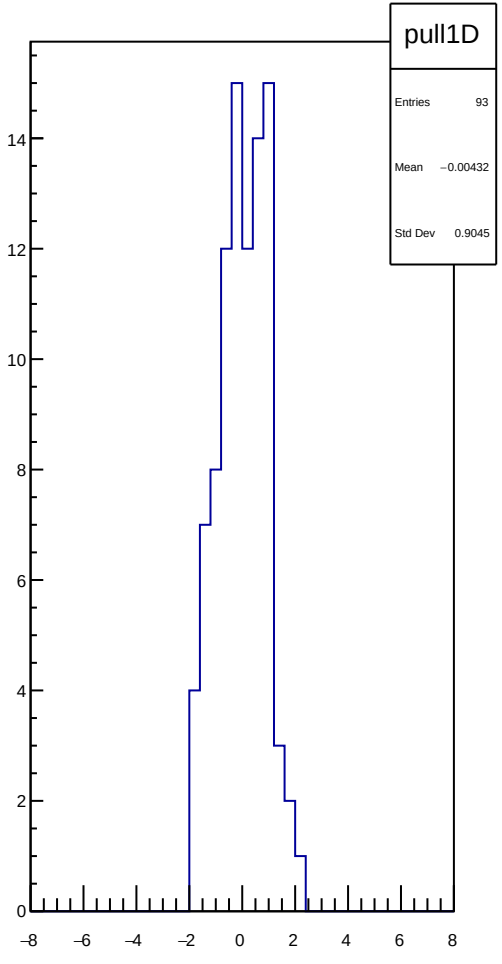

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 77.58 / 92
p0 −3132 ± 2304
pull
Entries 93
Mean 760.8
Std Dev 0
pull1D
Entries 93
Mean −0.004544
Std Dev 0.9134

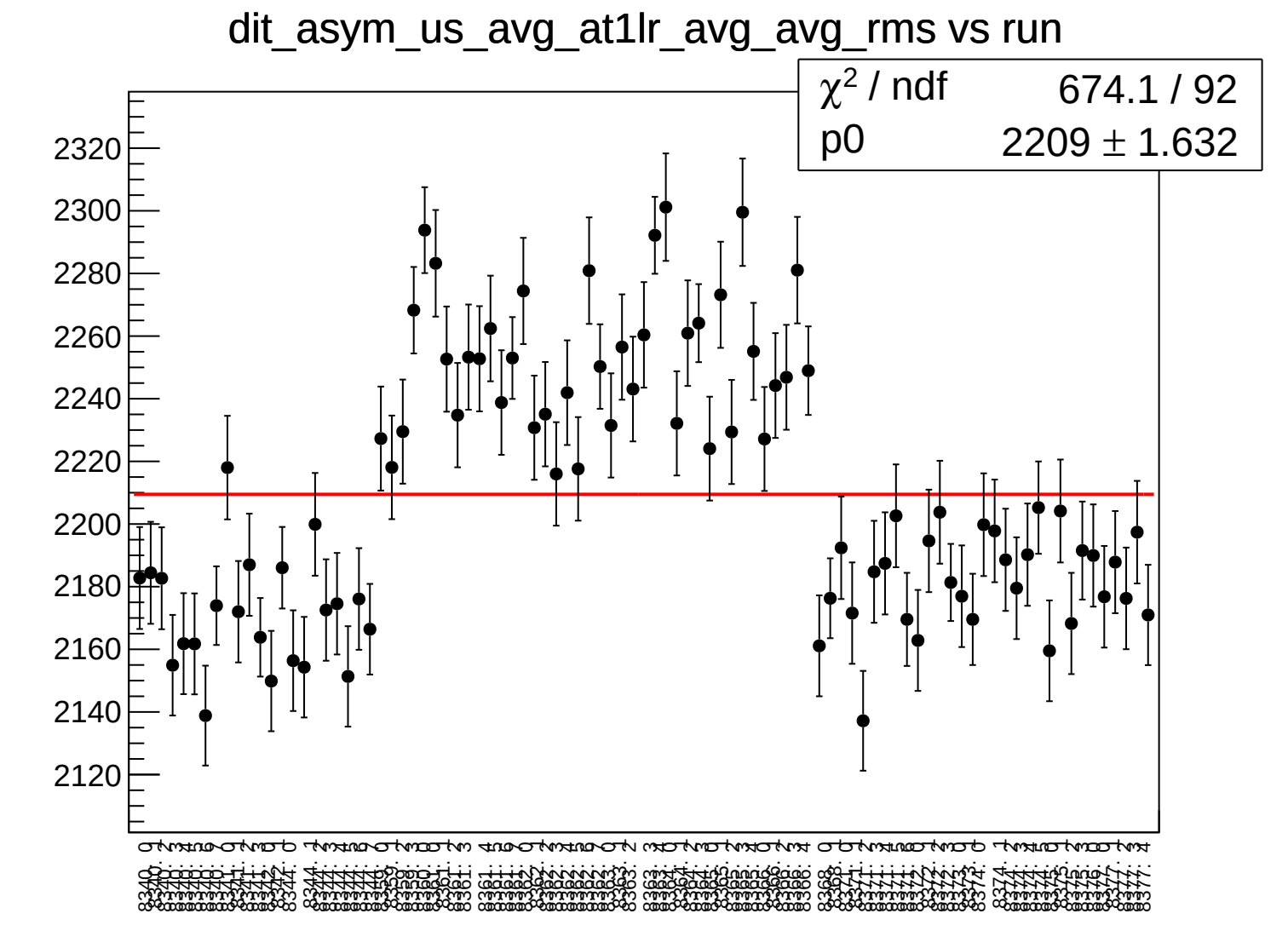

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 698 / 92
p0 2206 ± 1.629
2300
2250
2200
2150
2100

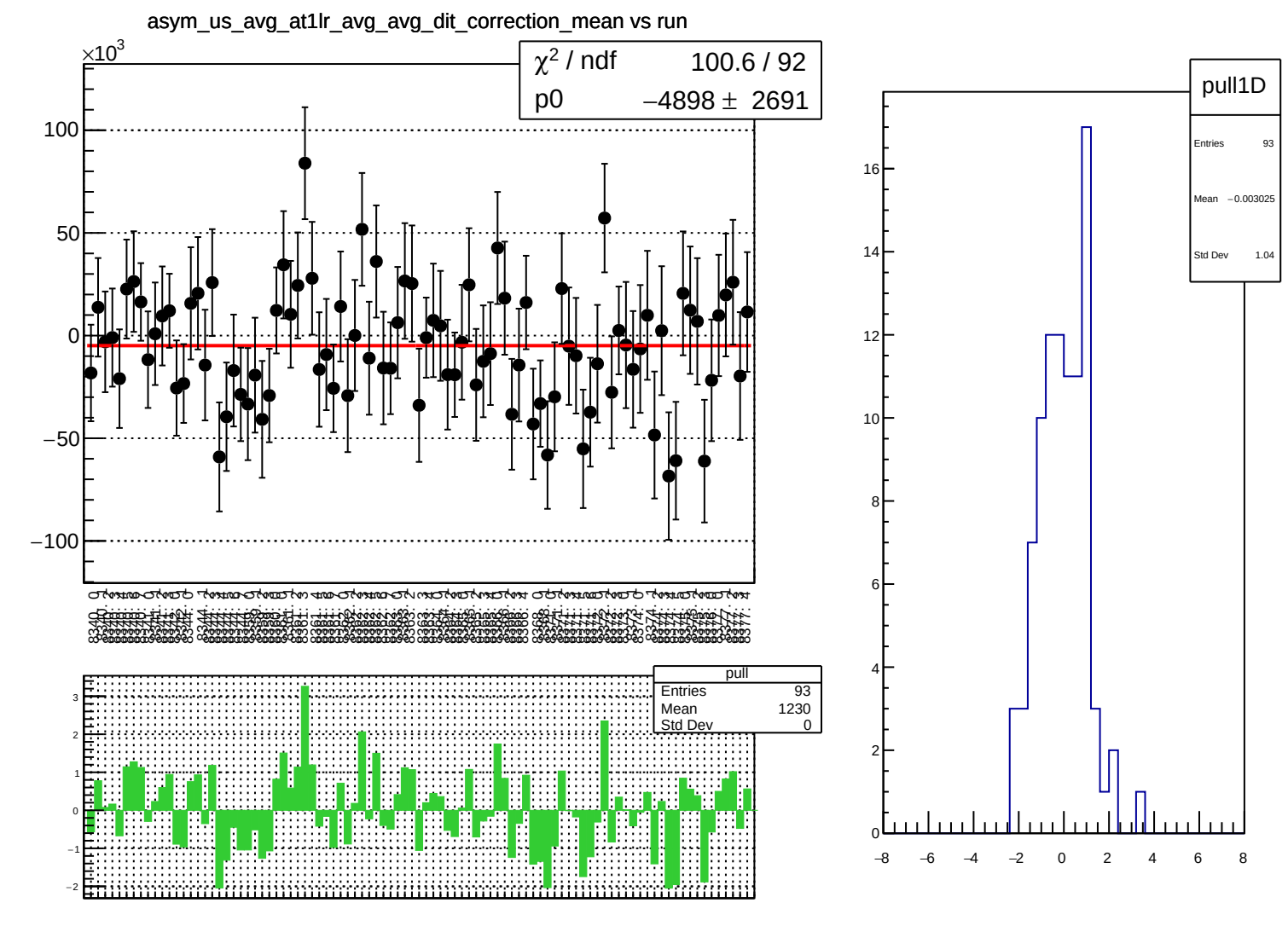

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 100.2 / 92
p0 −4833 ± 2671
100
50
0
−50
−100
pull
Entries 93
Mean 3560
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0009511
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

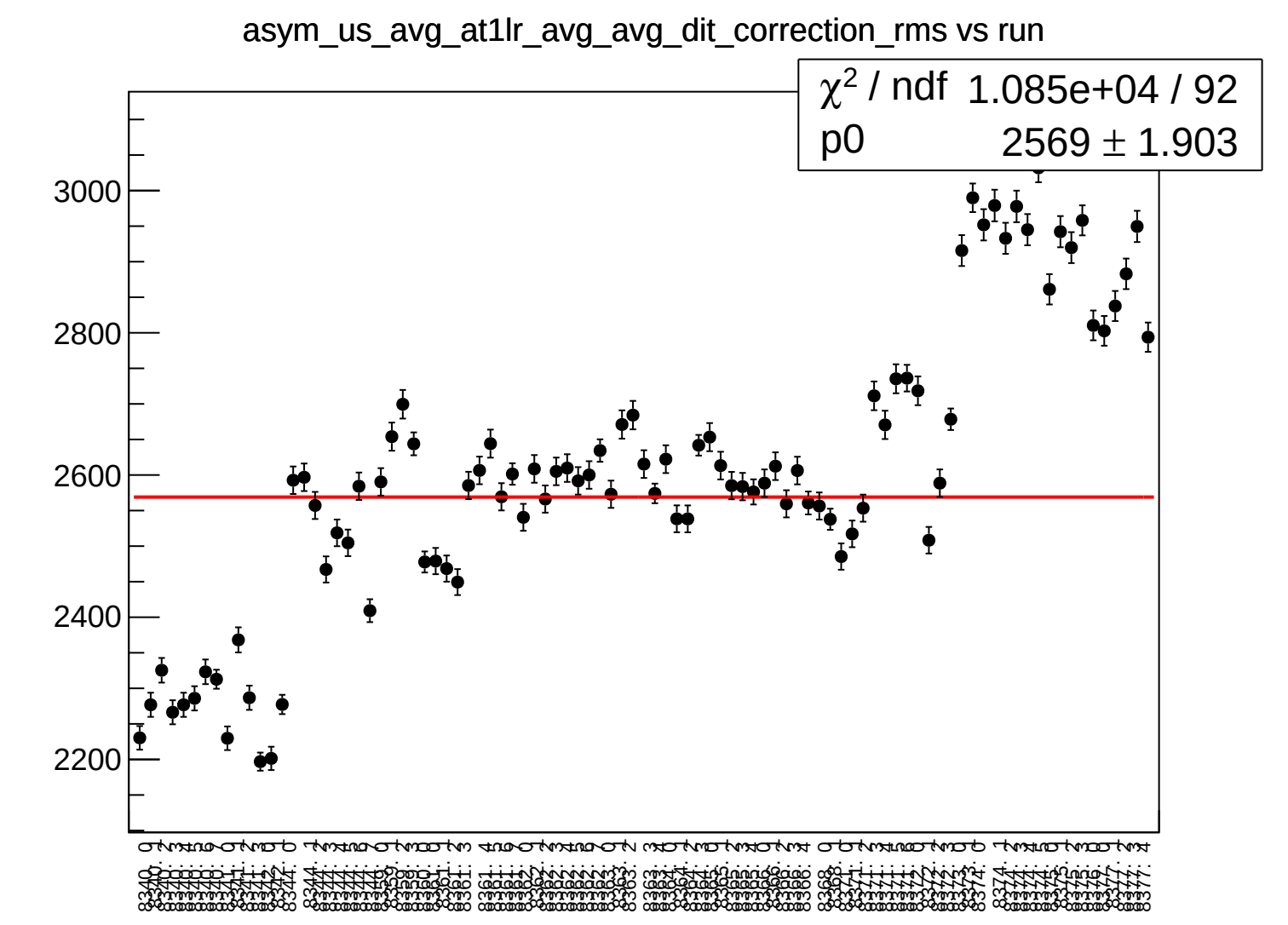

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 92
p0 2550 ± 1.889
3000
2800
2600
2400
2200

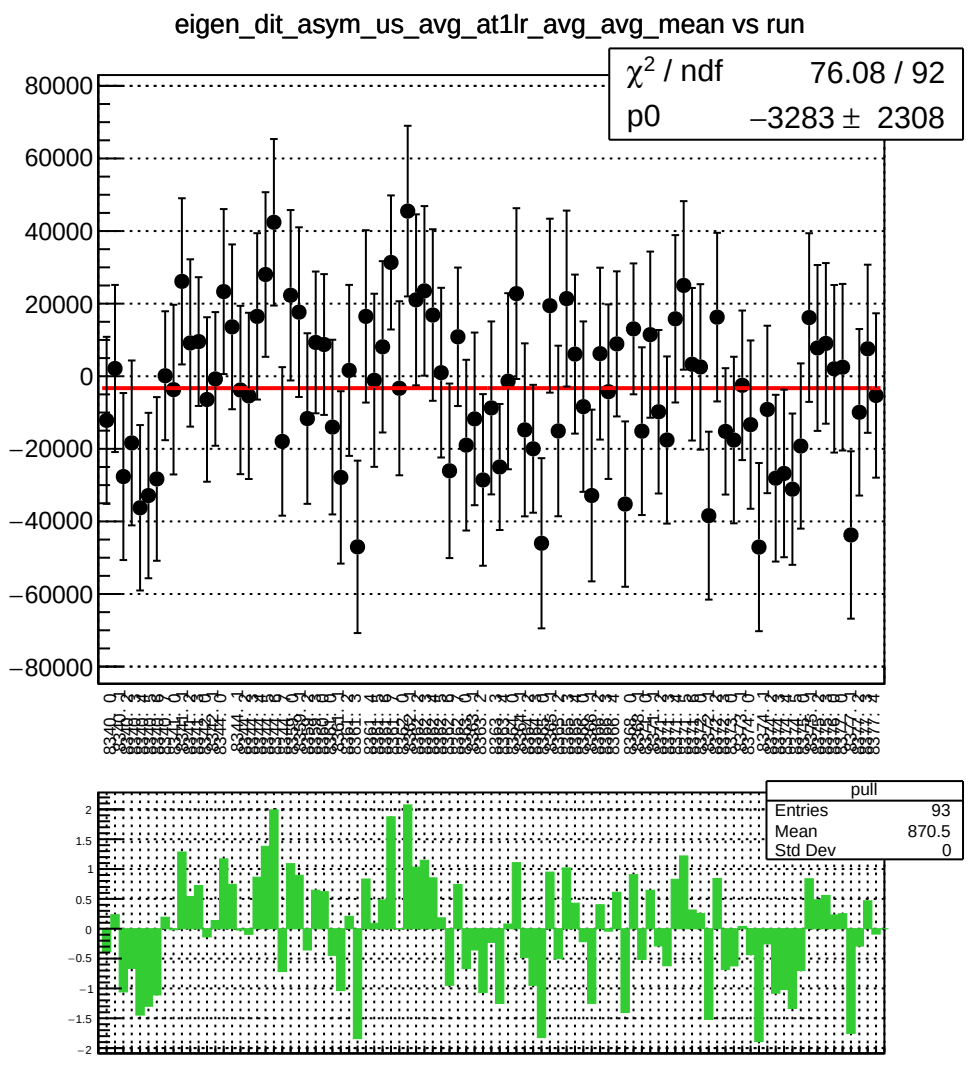

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.08 / 92
p0 −3283 ± 2308
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 870.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

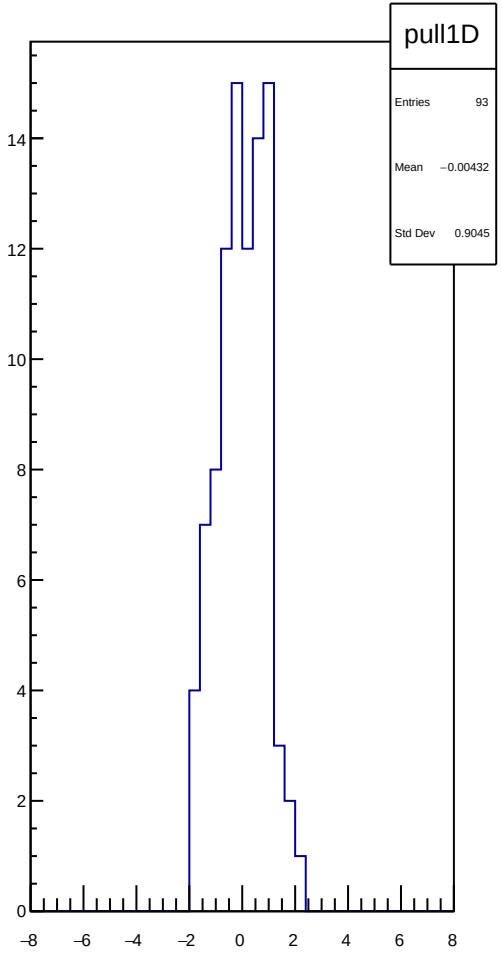

pull1D
Entries 93
Mean −0.00432
Std Dev 0.9045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

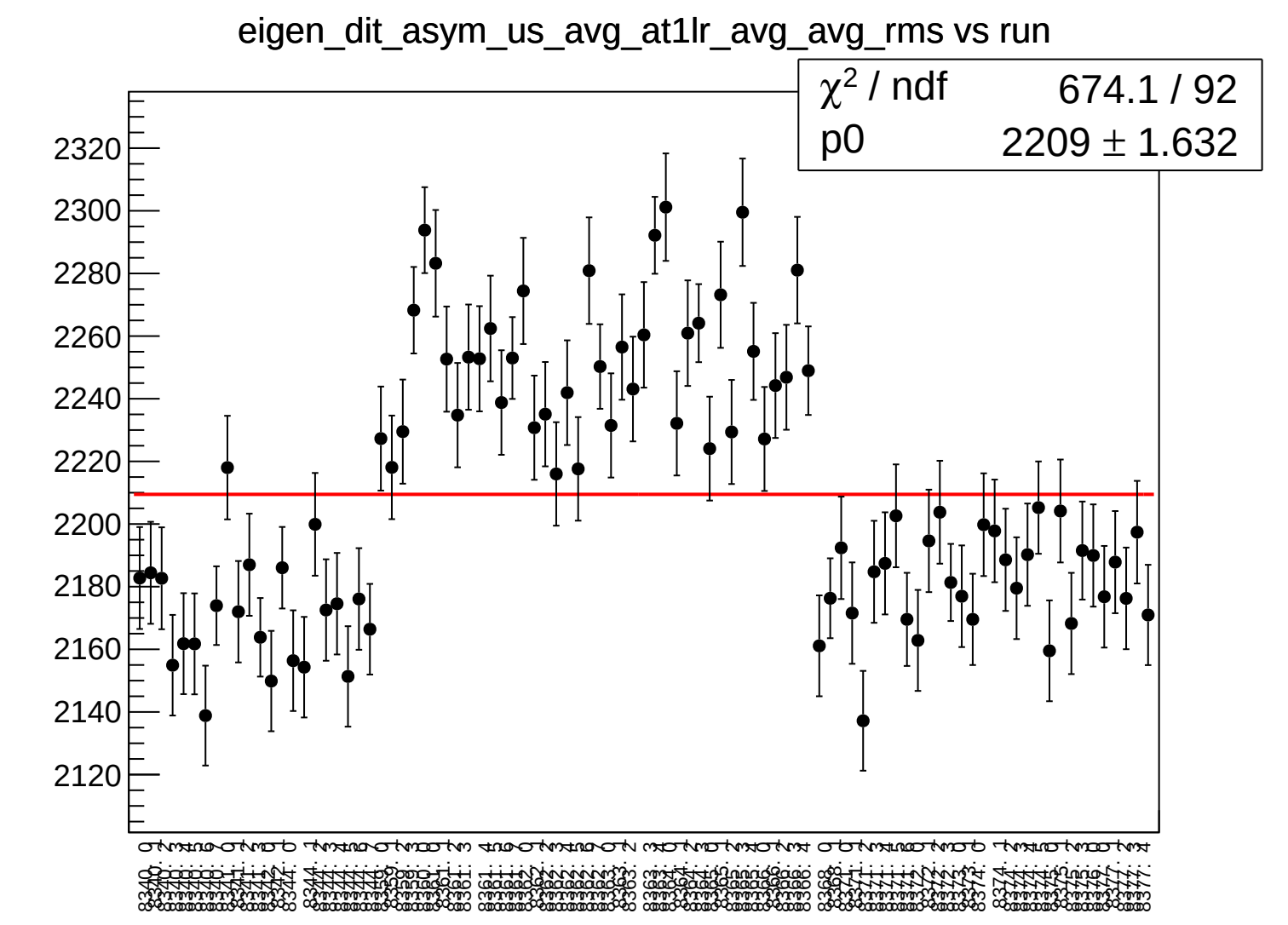

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 674.1 / 92
p0 2209 ± 1.632
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

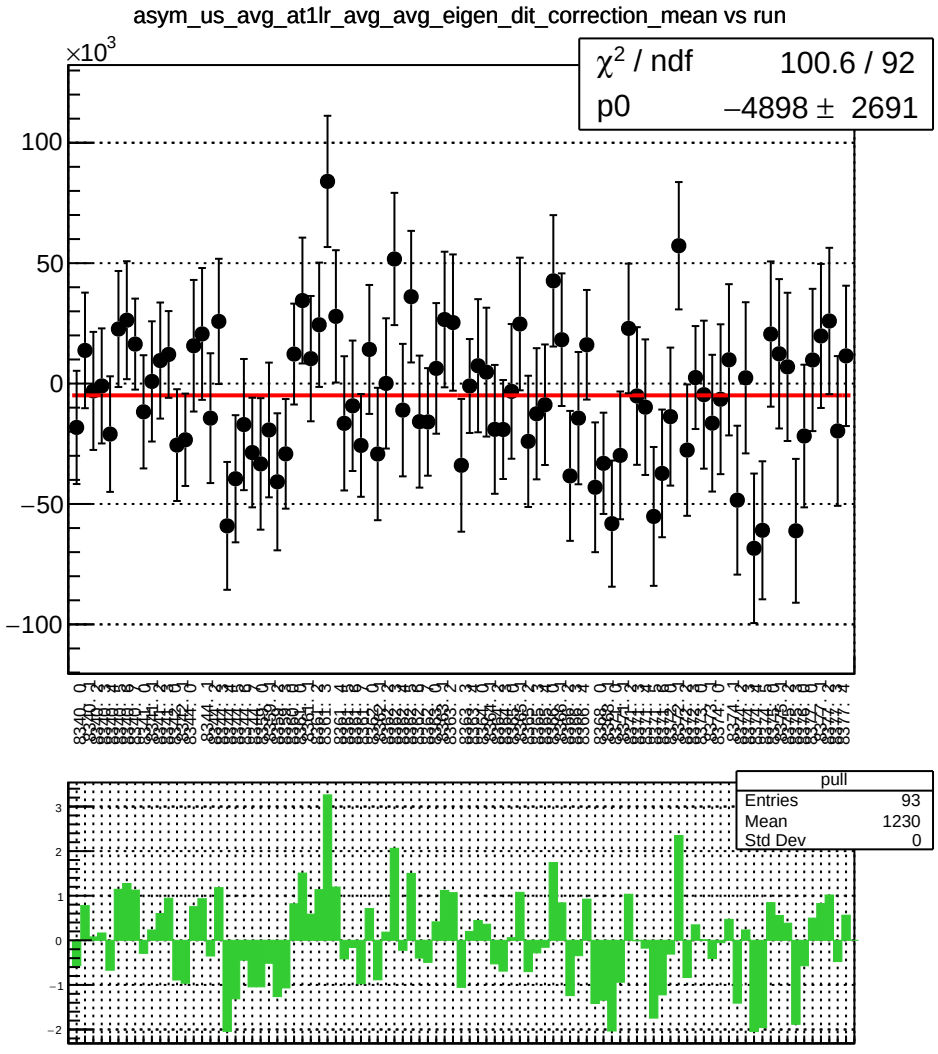

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 100.6 / 92
p0 −4898 ± 2691
100
50
0
−50
−100
pull
Entries 93
Mean 1230
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003025
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

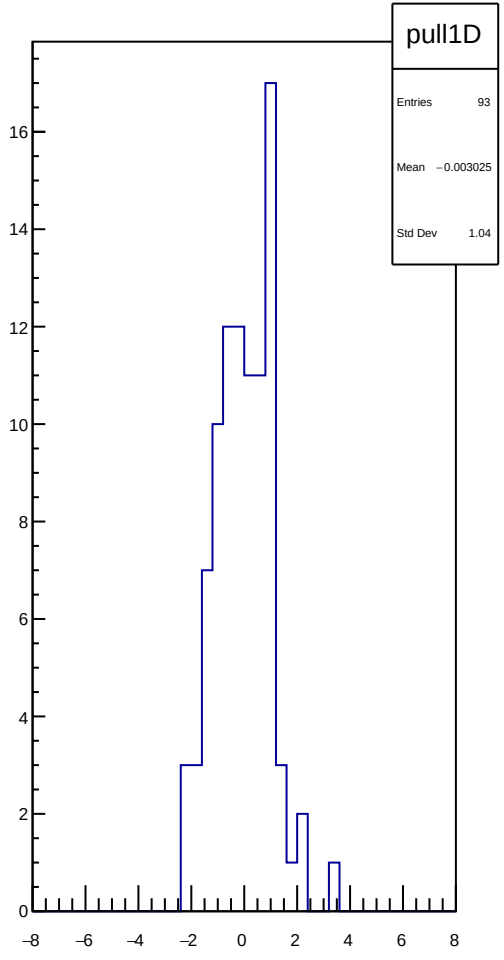

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 92
p0 2569 ± 1.903
3000
2800
2600
2400
2200

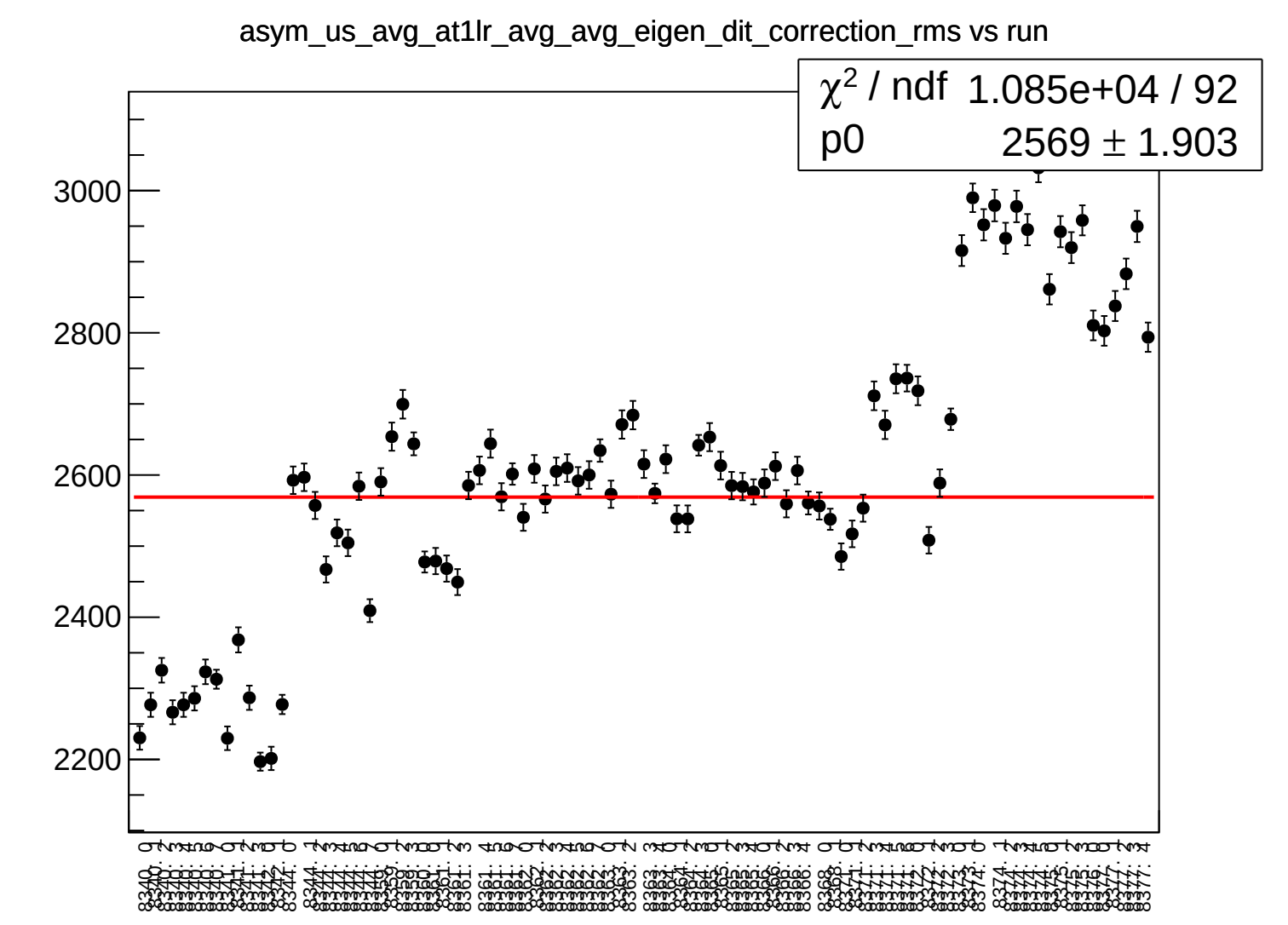

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.08 / 92
p0 −3283 ± 2308
pull
Entries 93
Mean 870.5
Std Dev 0

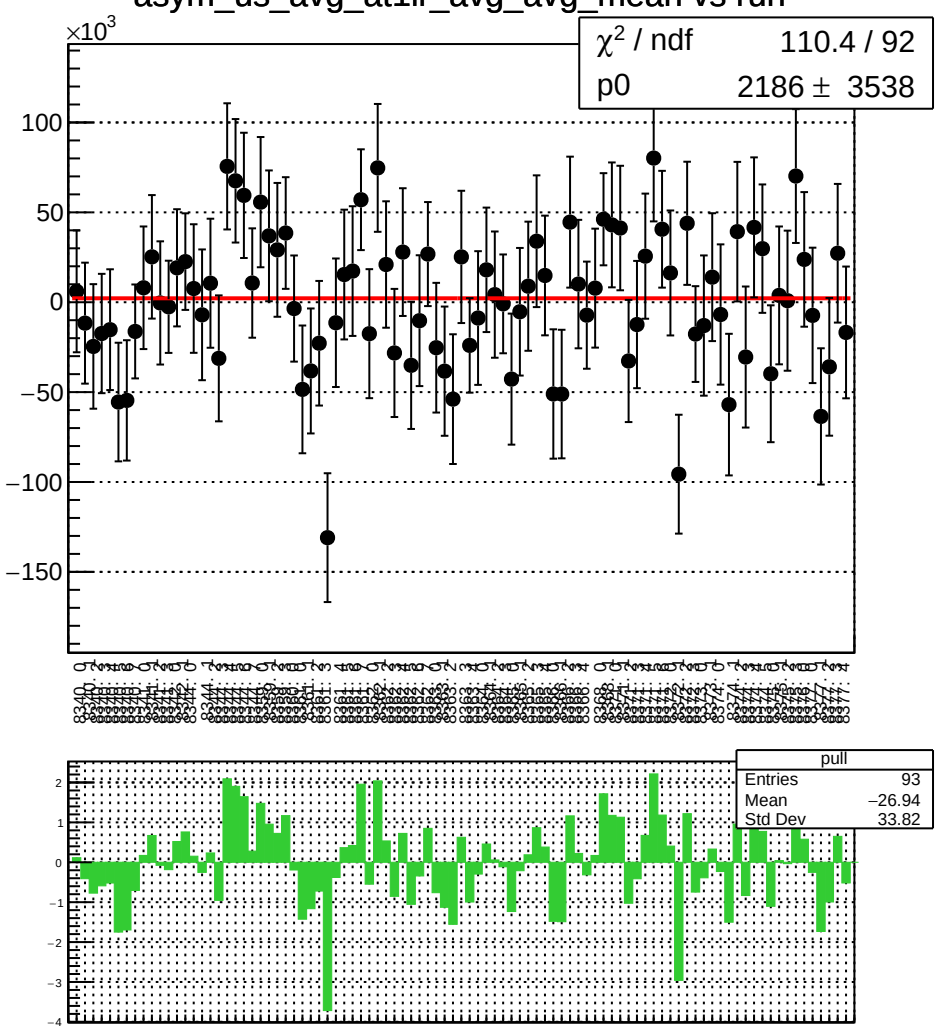

pull1D
Entries 93
Mean −0.00432
Std Dev 0.9045

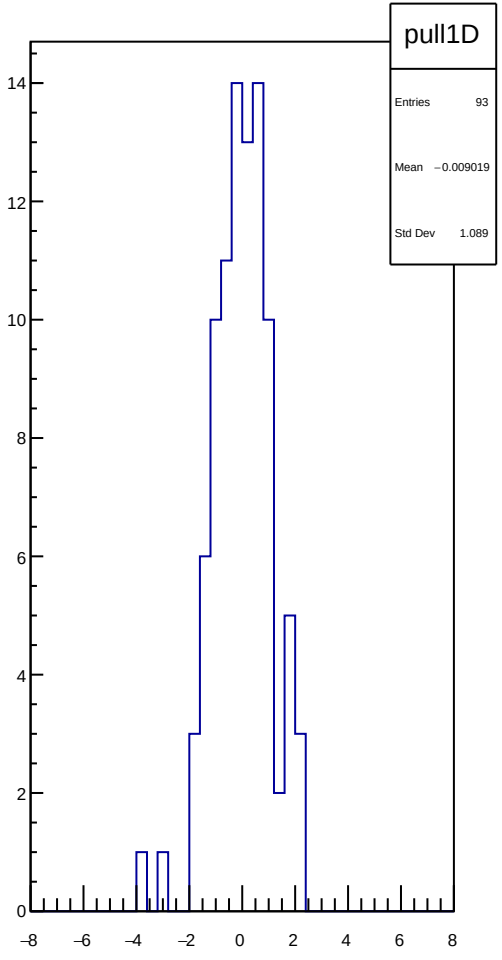

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 674.1 / 92
p0 2209 ± 1.632
2320
2300
2280
2260
2240
2220
2200
2180
2160
2140
2120

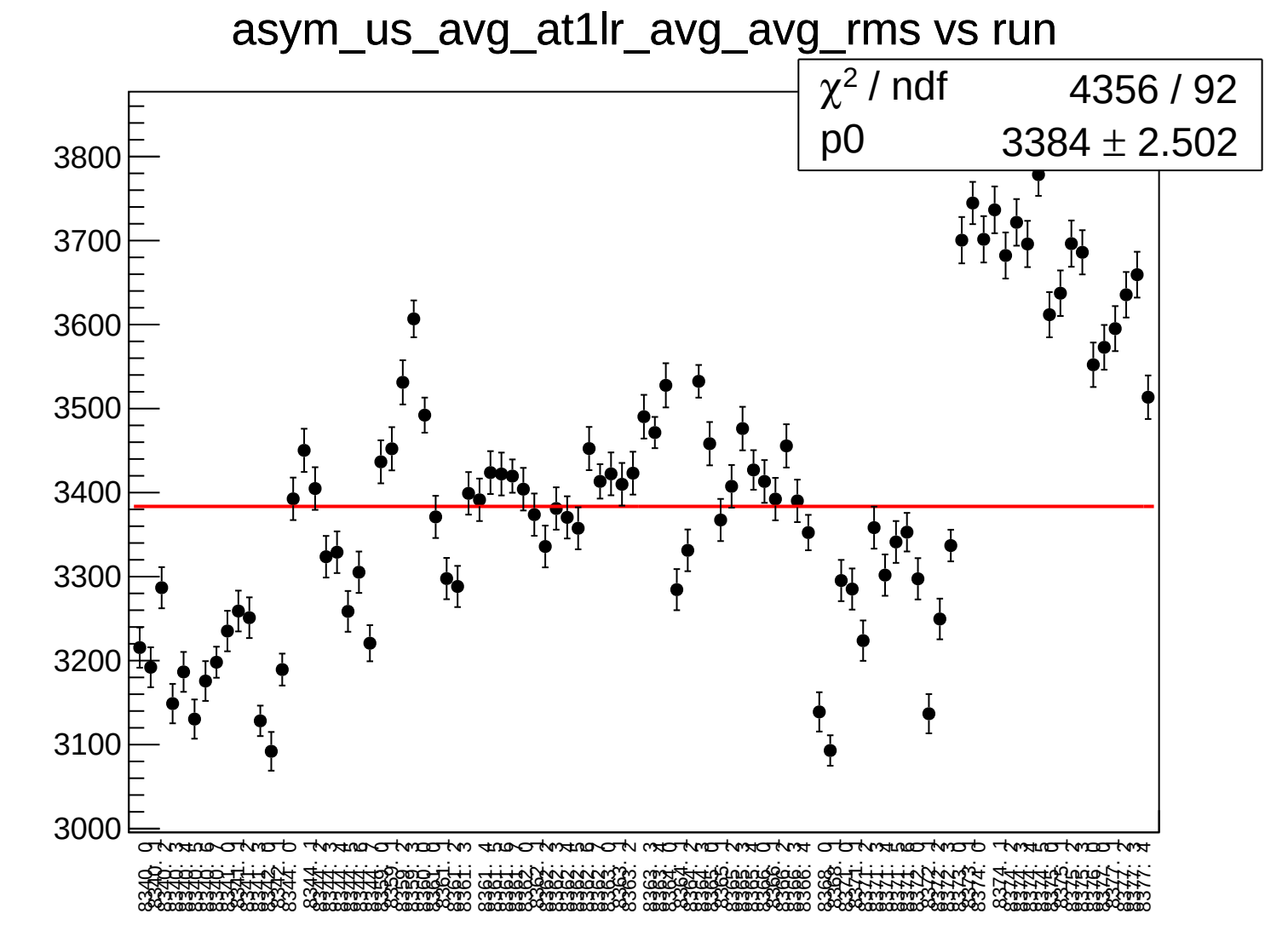

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.6 / 92
p0 −4898 ± 2691
100
50
0
−50
−100
pull
Entries 93
Mean 1230
Std Dev 0
3
2
1
0
−1
−2

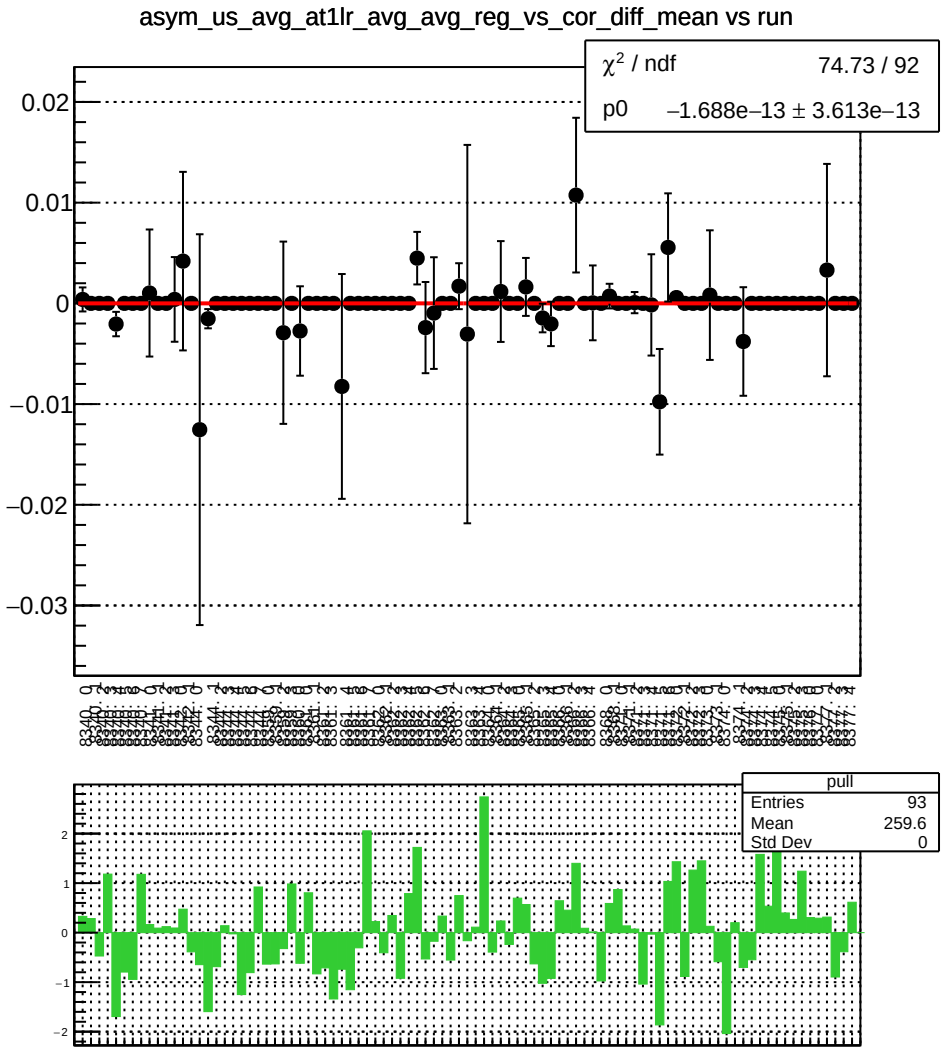

pull1D
Entries 93
Mean −0.003025
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

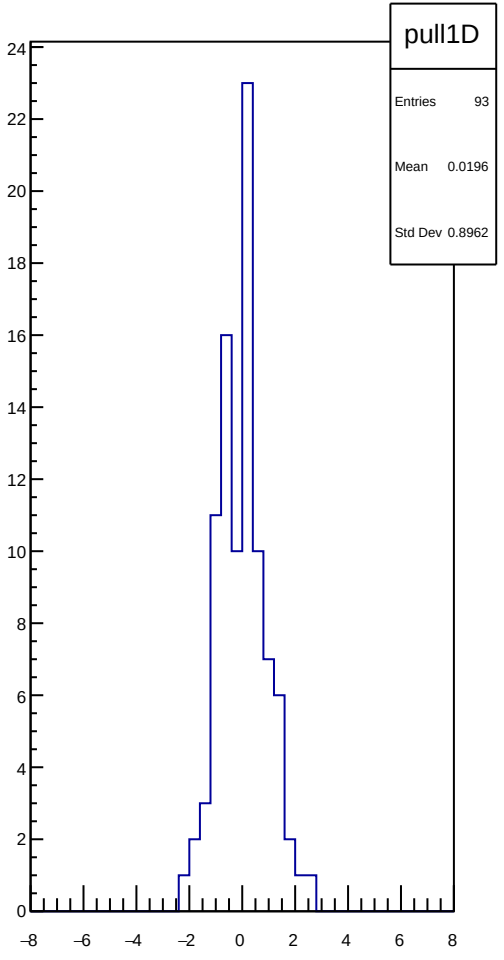

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.085e+04 / 92
p0 2569 ± 1.903
3000
2800
2600
2400
2200

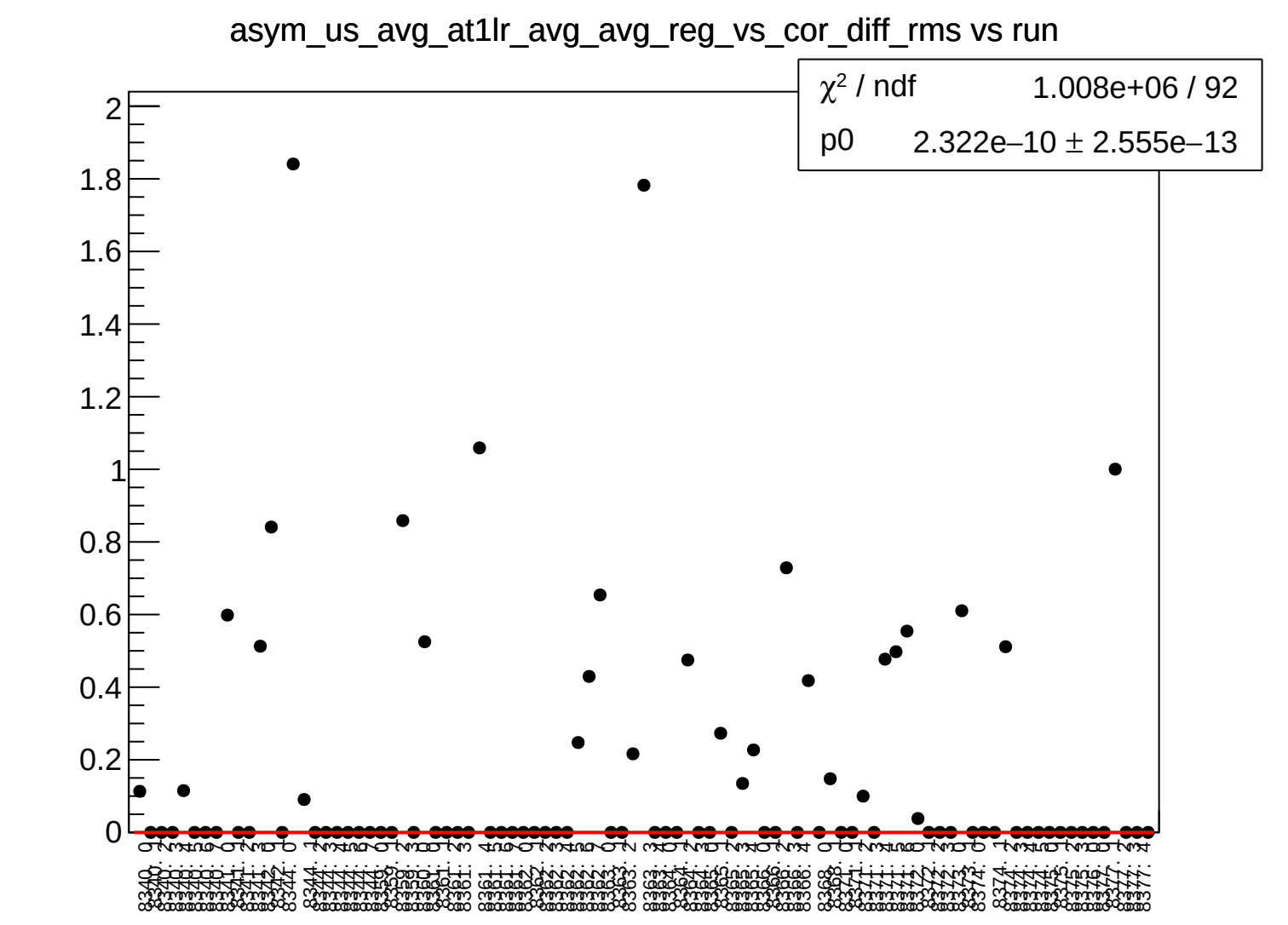

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 110.4 / 92
p0 2186 ± 3538
100
50
0
−50
−100
−150
pull
Entries 93
Mean −26.94
Std Dev 33.82
2
1
0
−1
−2
−3
−4

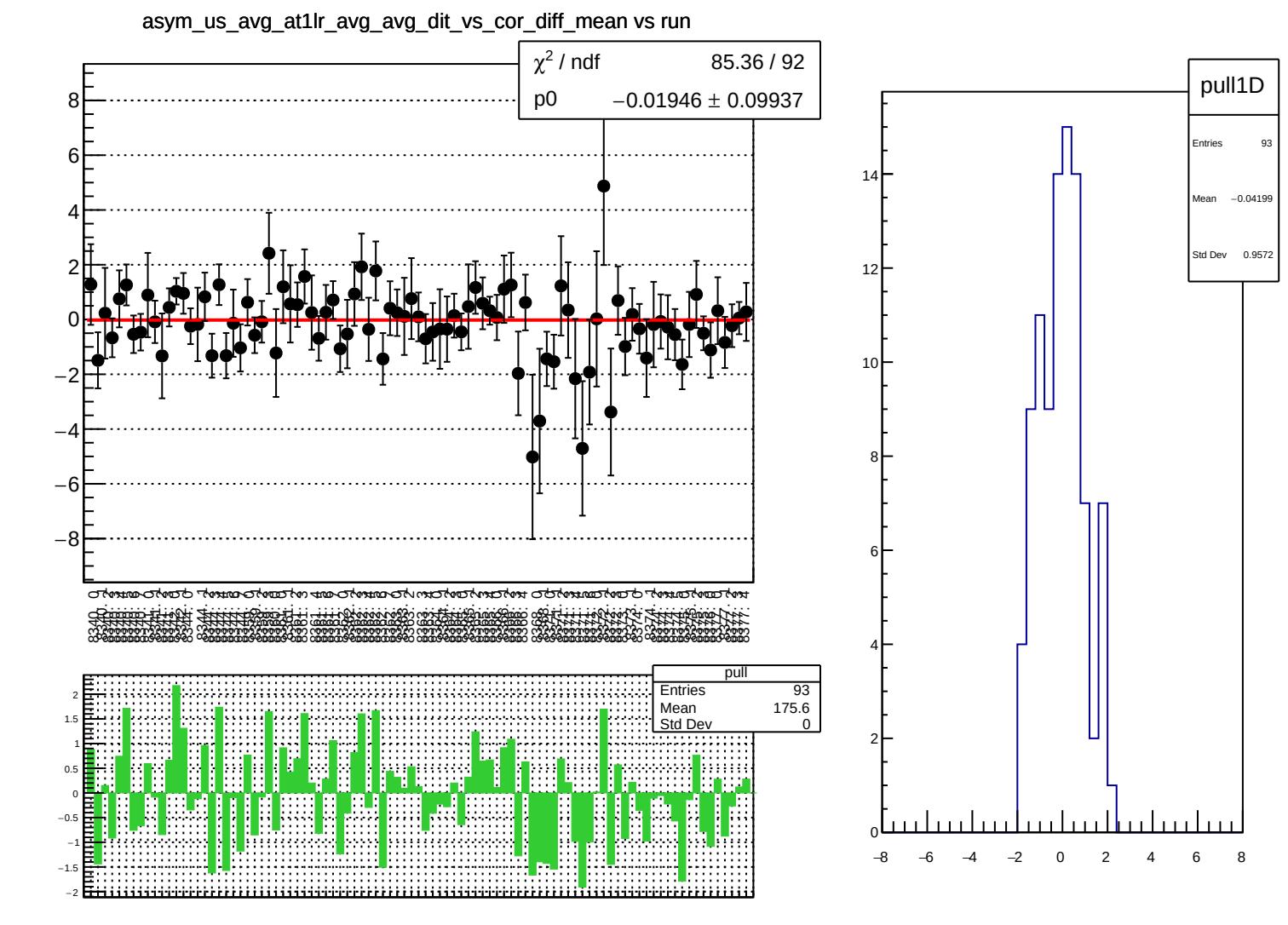

pull1D
Entries 93
Mean −0.009019
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

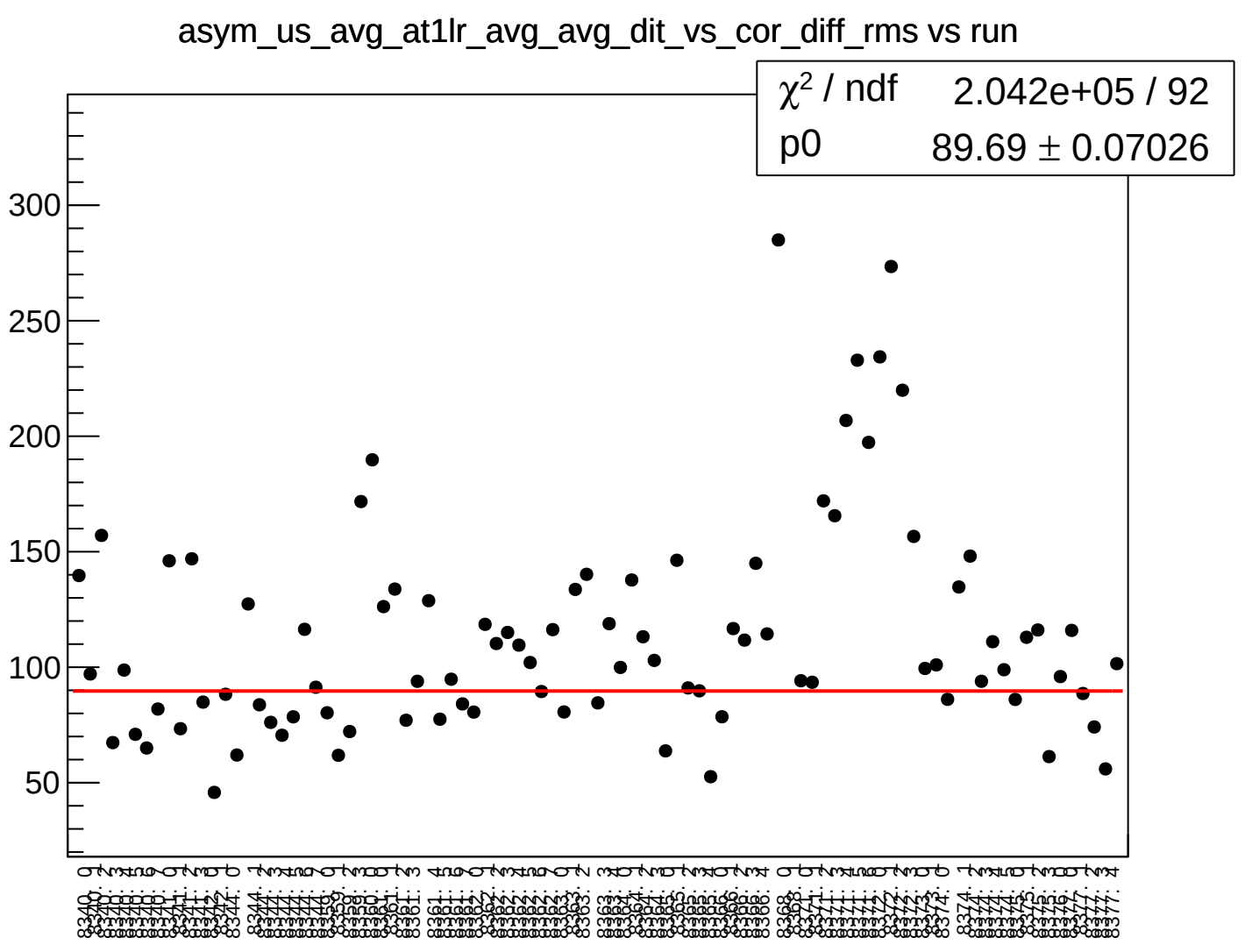

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 4356 / 92
p0 3384 ± 2.502
3800
3700
3600
3500
3400
3300
3200
3100
3000

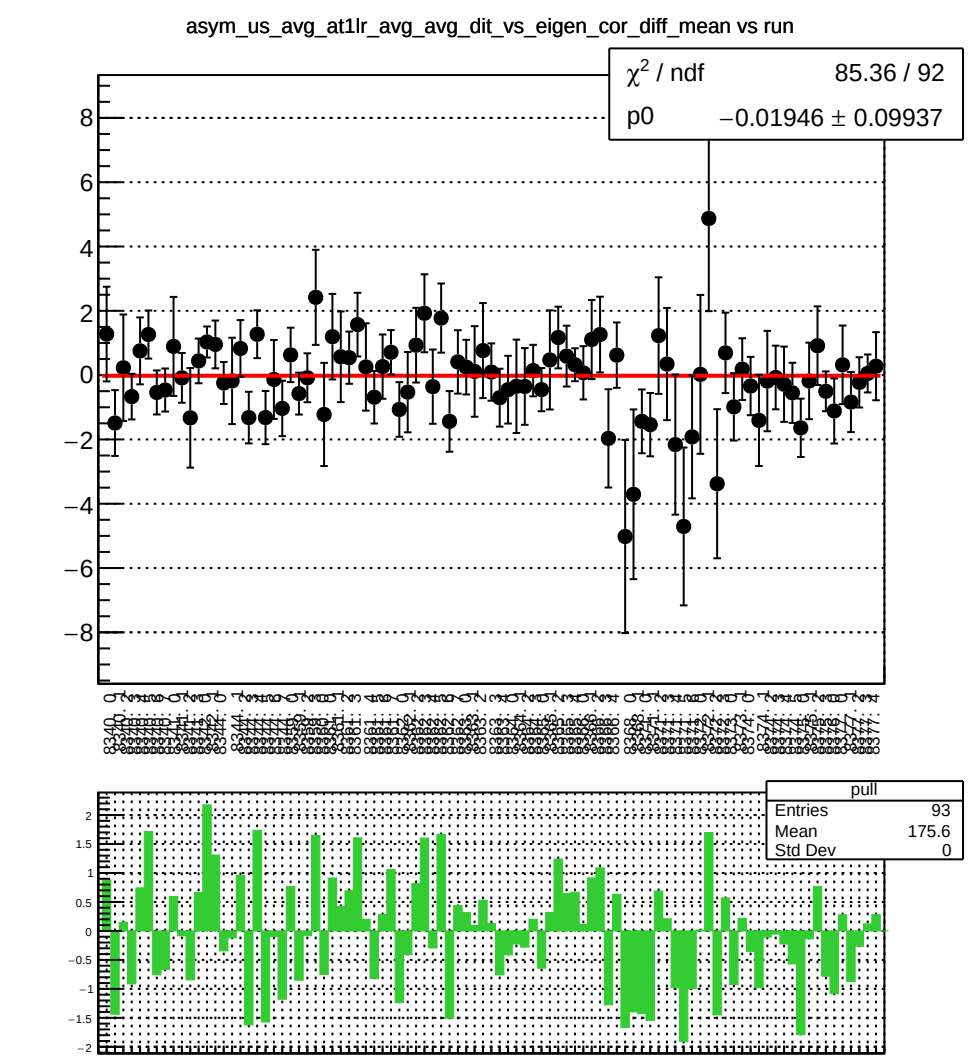

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.73 / 92
p0 −1.688e−13 ± 3.613e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 93
Mean 259.6
Std Dev 0
2
1
0
−1
−2

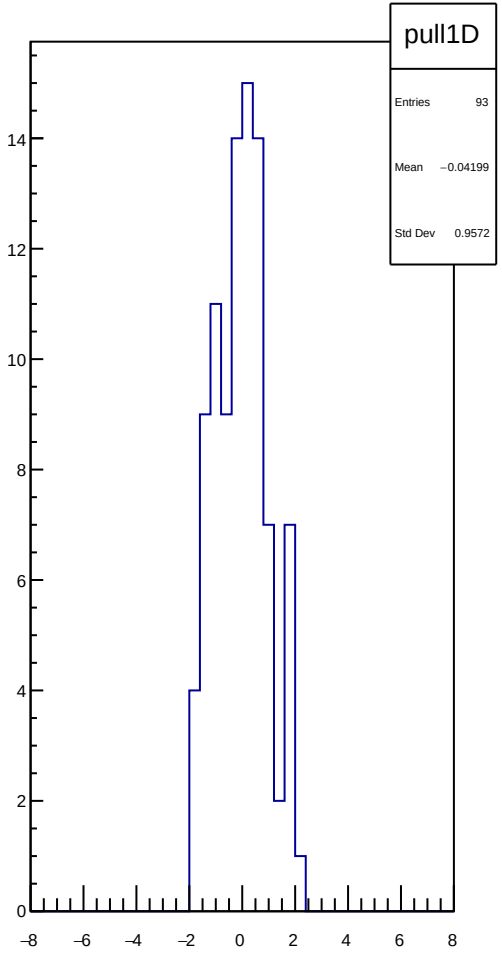

pull1D
Entries 93
Mean 0.0196
Std Dev 0.8962
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

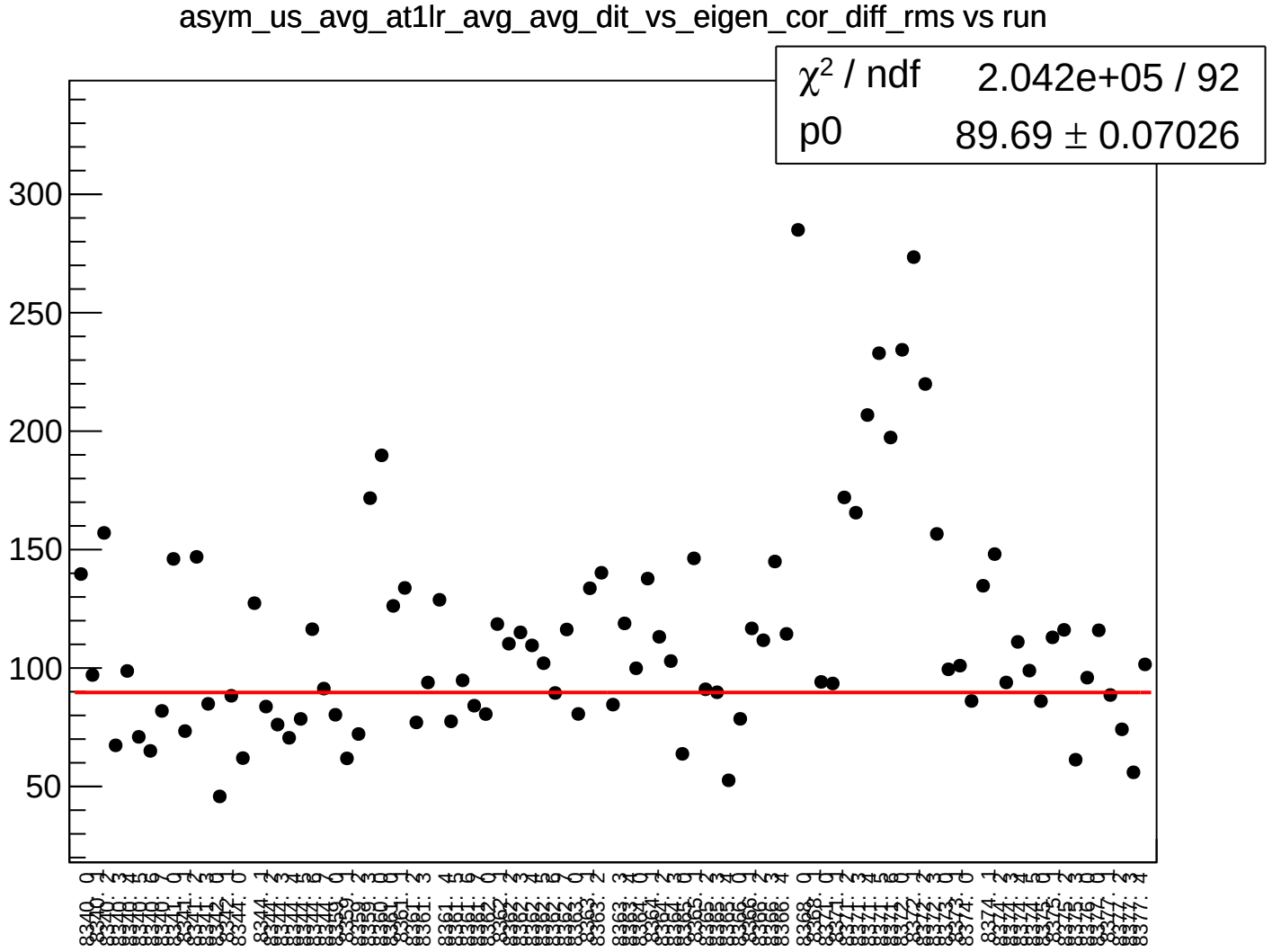

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 92
p0 2.322e−10 ± 2.555e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

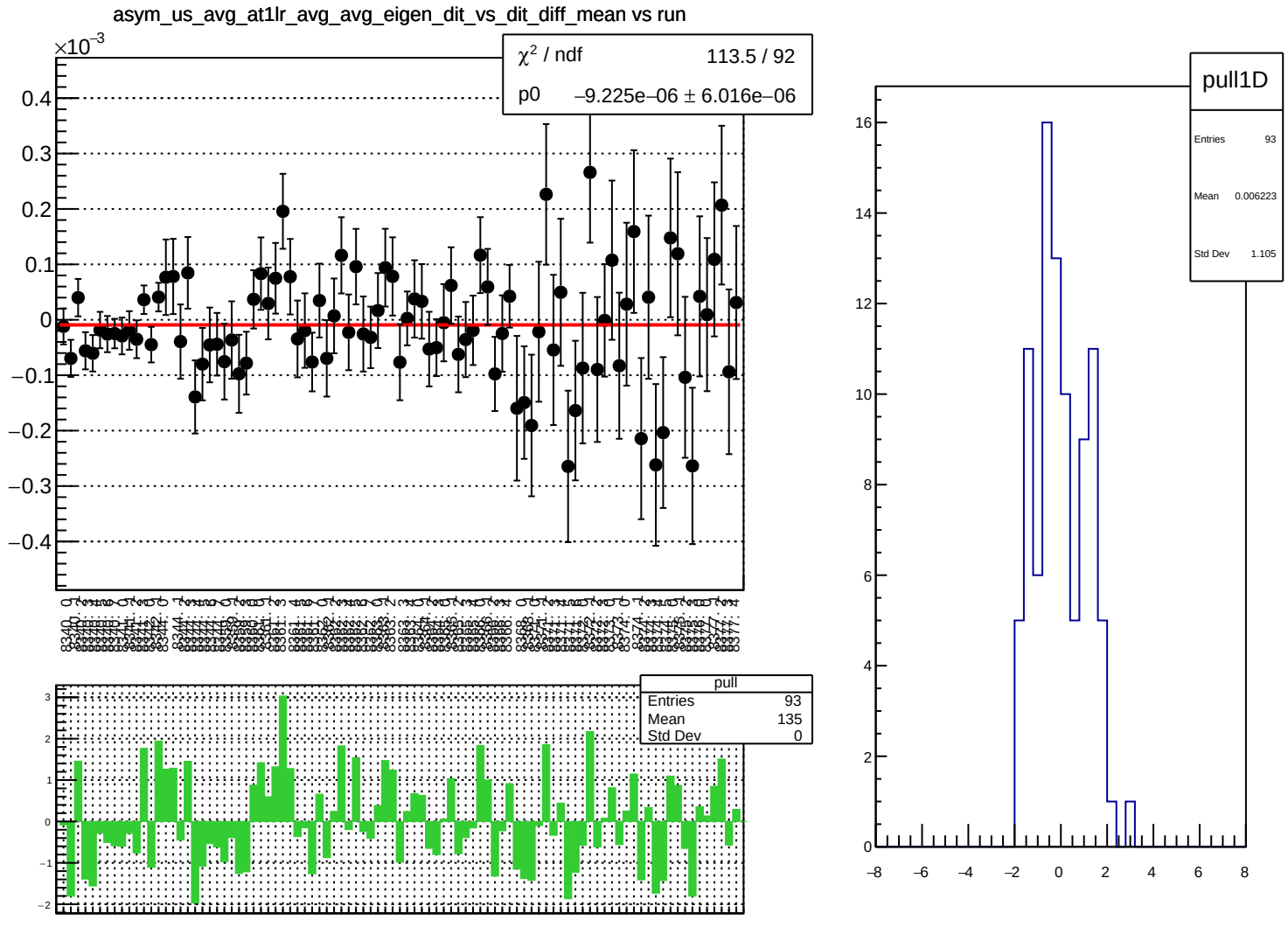

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 92
p0 −0.01946 ± 0.09937
pull
Entries 93
Mean 175.6
Std Dev 0
pull1D
Entries 93
Mean −0.04199
Std Dev 0.9572

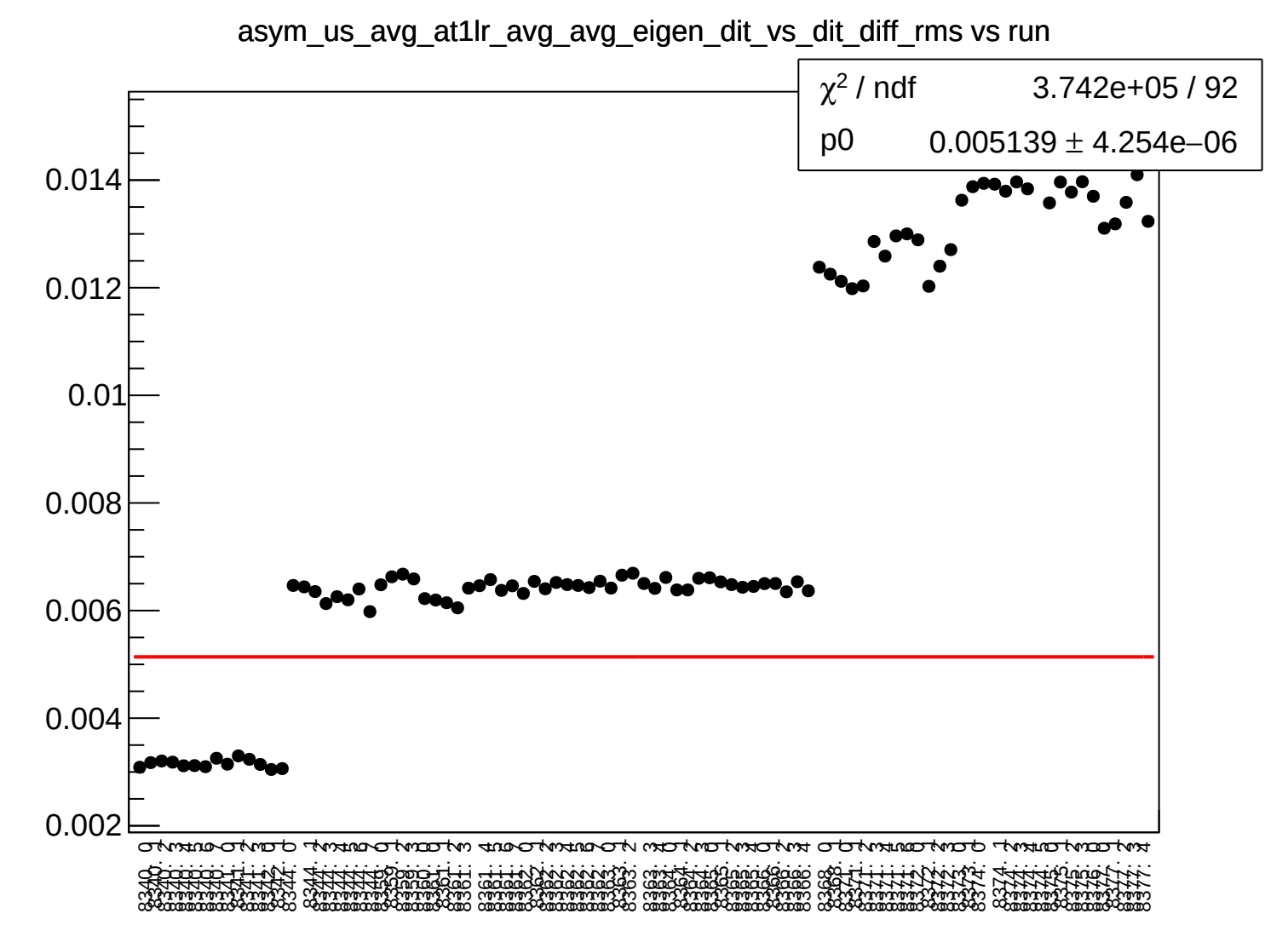

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.042e+05 / 92
p0 89.69 ± 0.07026
300
250
200
150
100
50

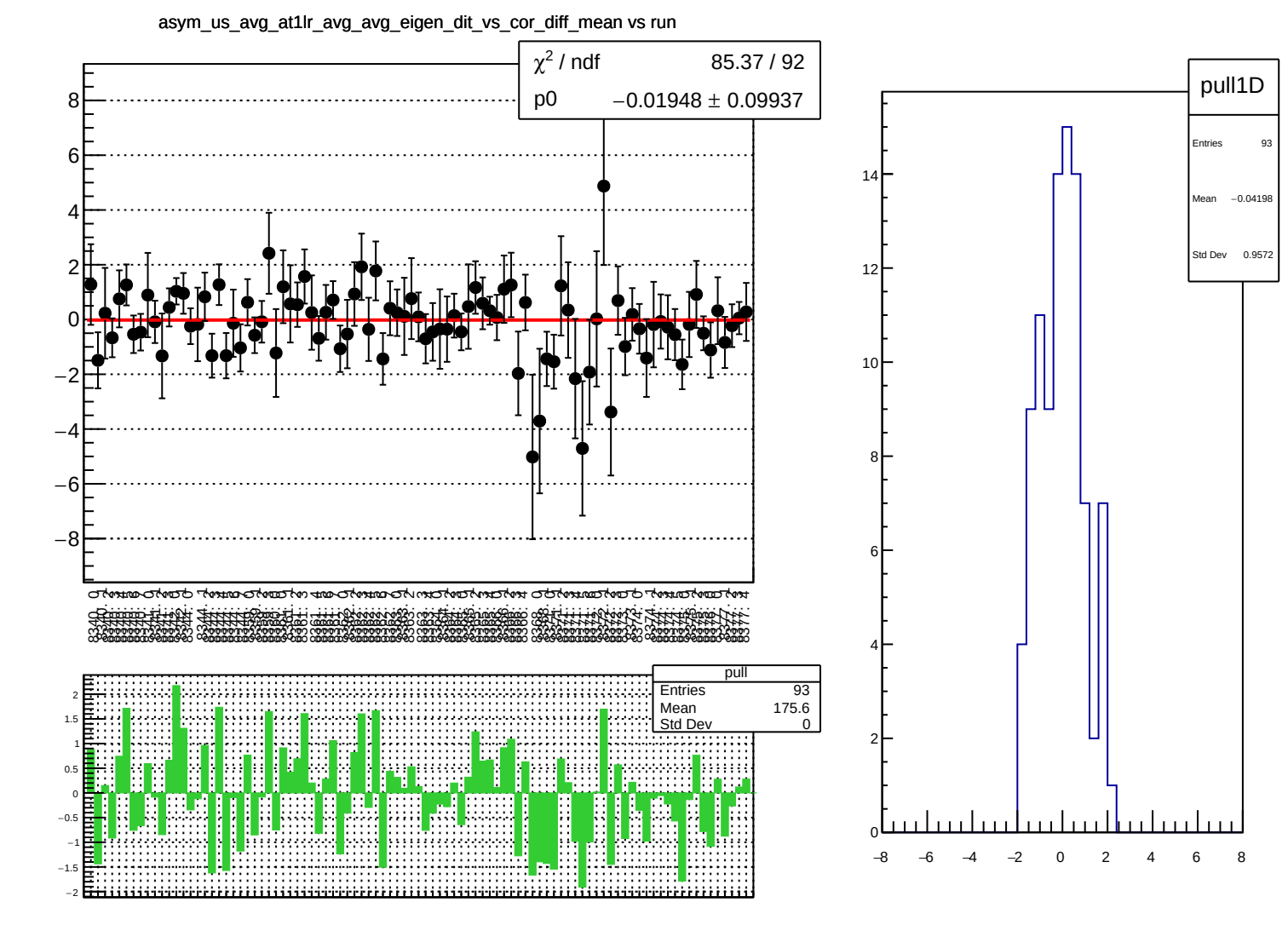

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.36 / 92
p0 −0.01946 ± 0.09937
pull
Entries 93
Mean 175.6
Std Dev 0

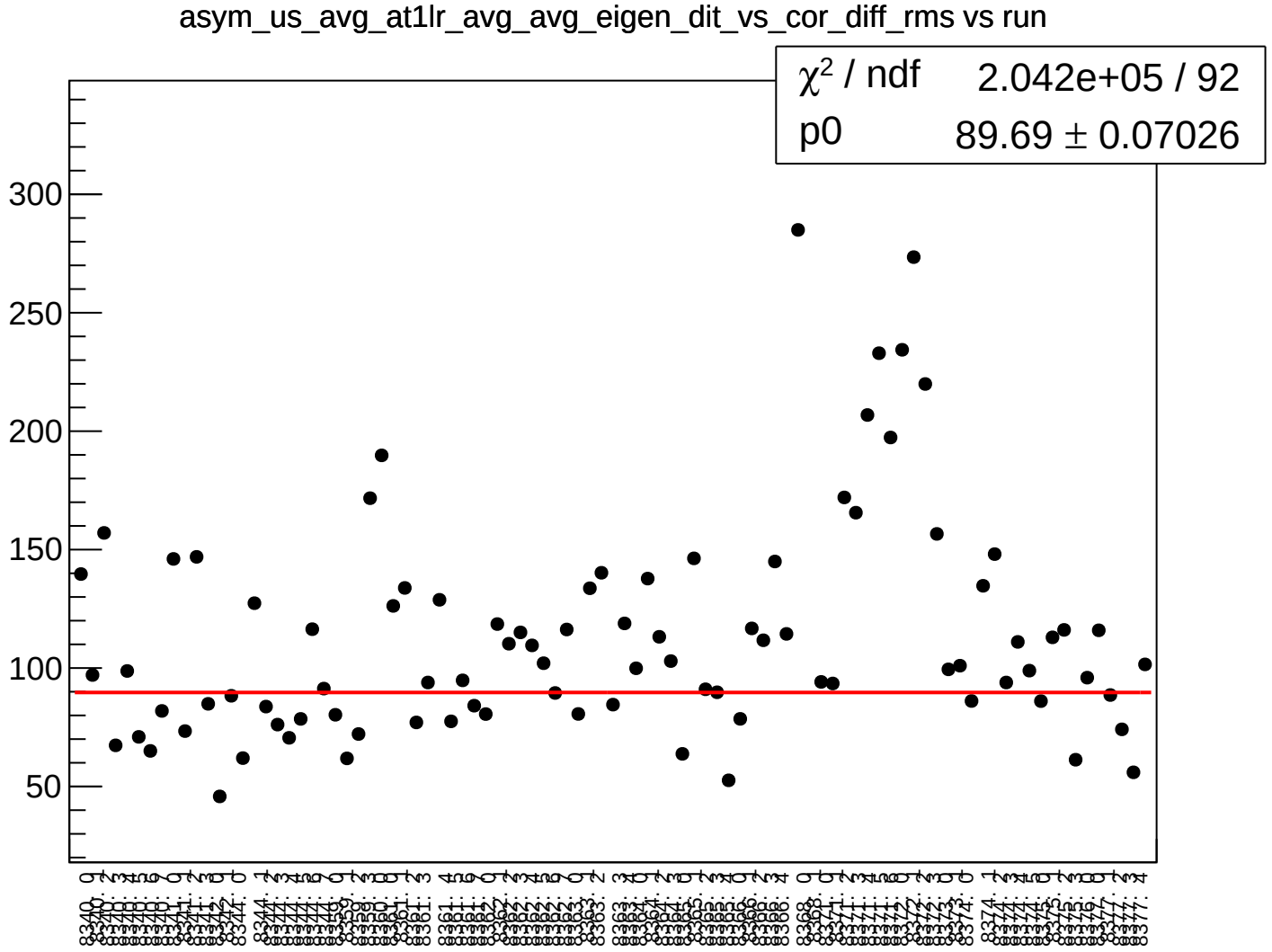

pull1D
Entries 93
Mean −0.04199
Std Dev 0.9572

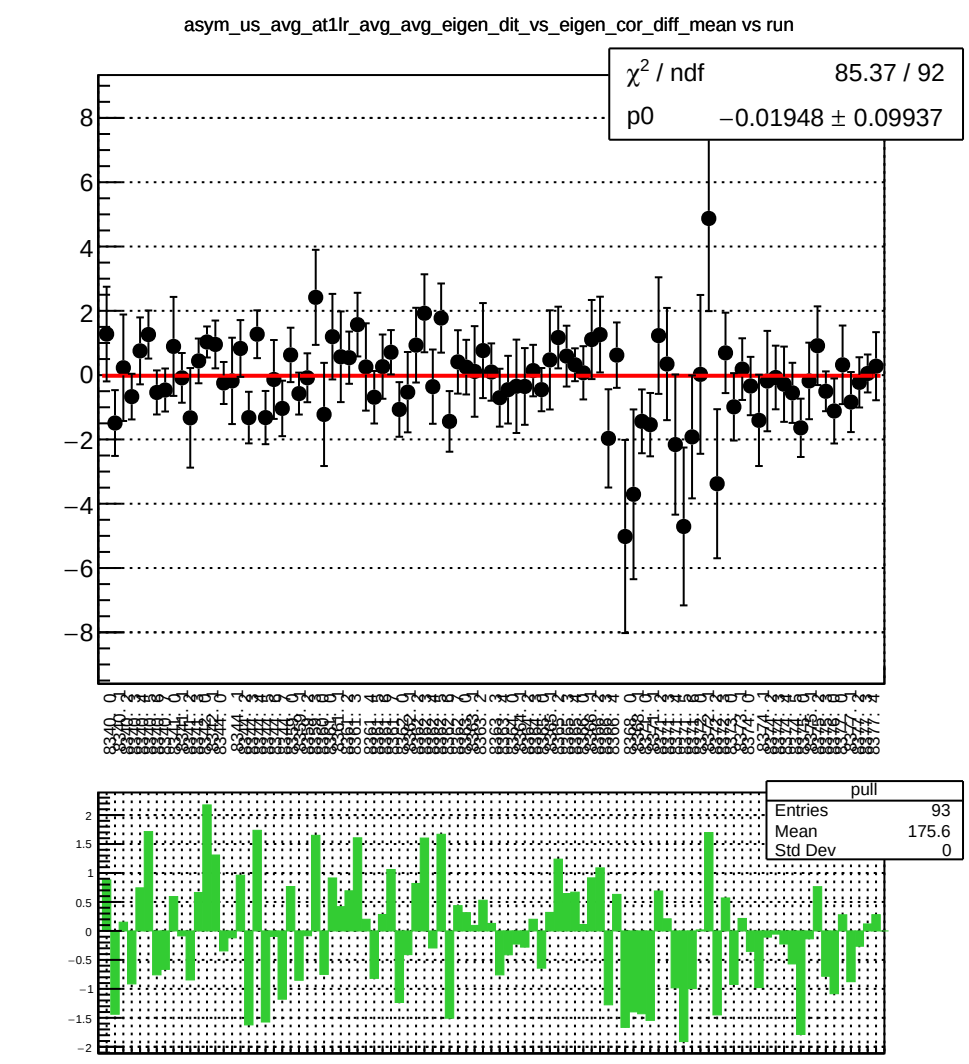

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.042e+05 / 92
p0 89.69 ± 0.07026
300
250
200
150
100
50

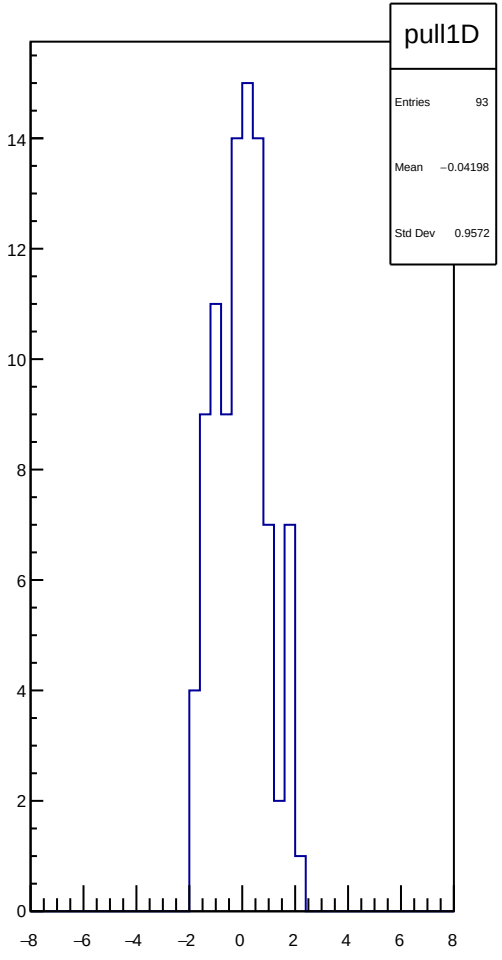

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.5 / 92
p0 −9.225e−06 ± 6.016e−06
pull
Entries 93
Mean 135
Std Dev 0
pull1D
Entries 93
Mean 0.006223
Std Dev 1.105

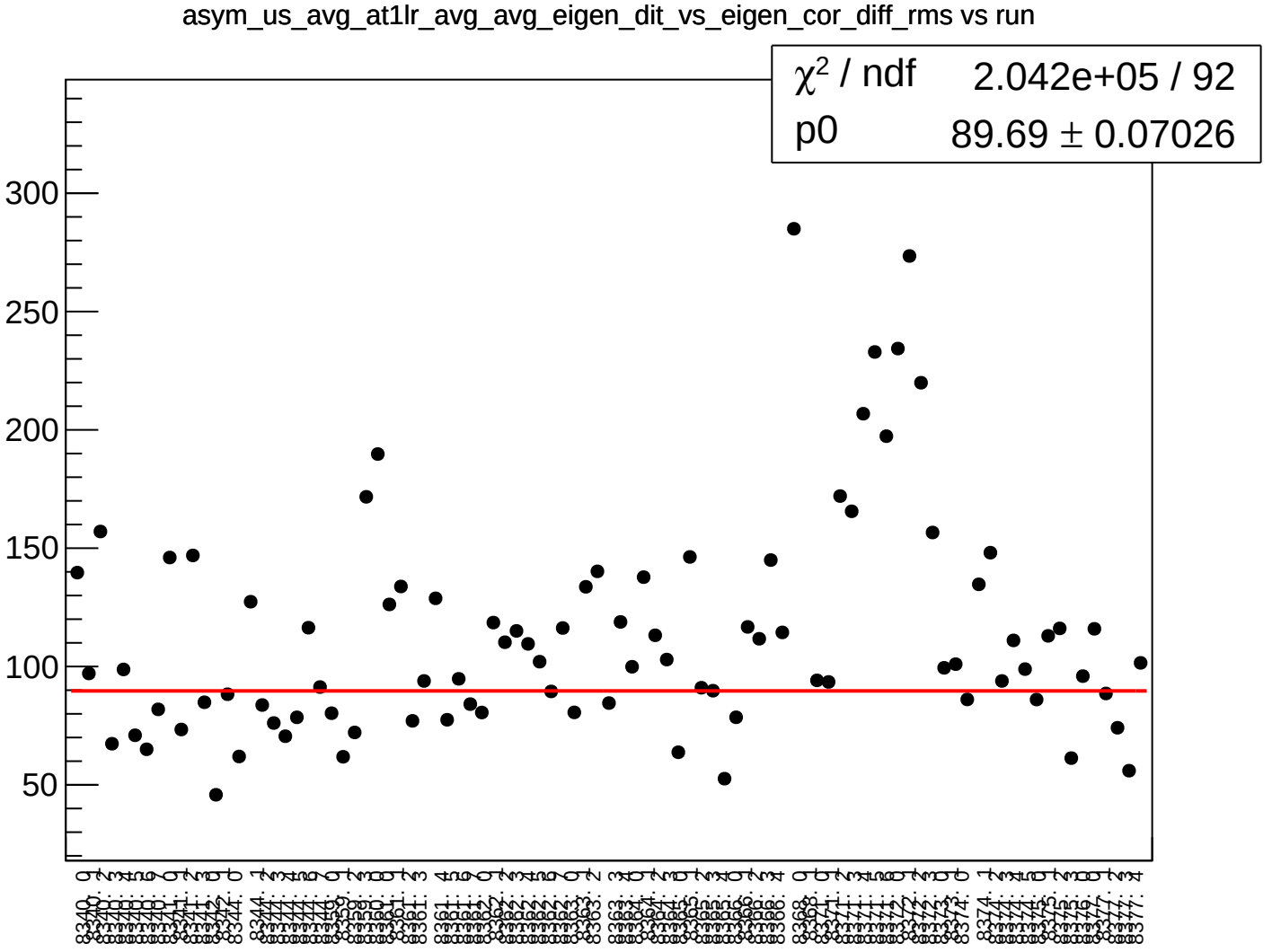

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.742e+05 / 92
p0 0.005139 ± 4.254e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

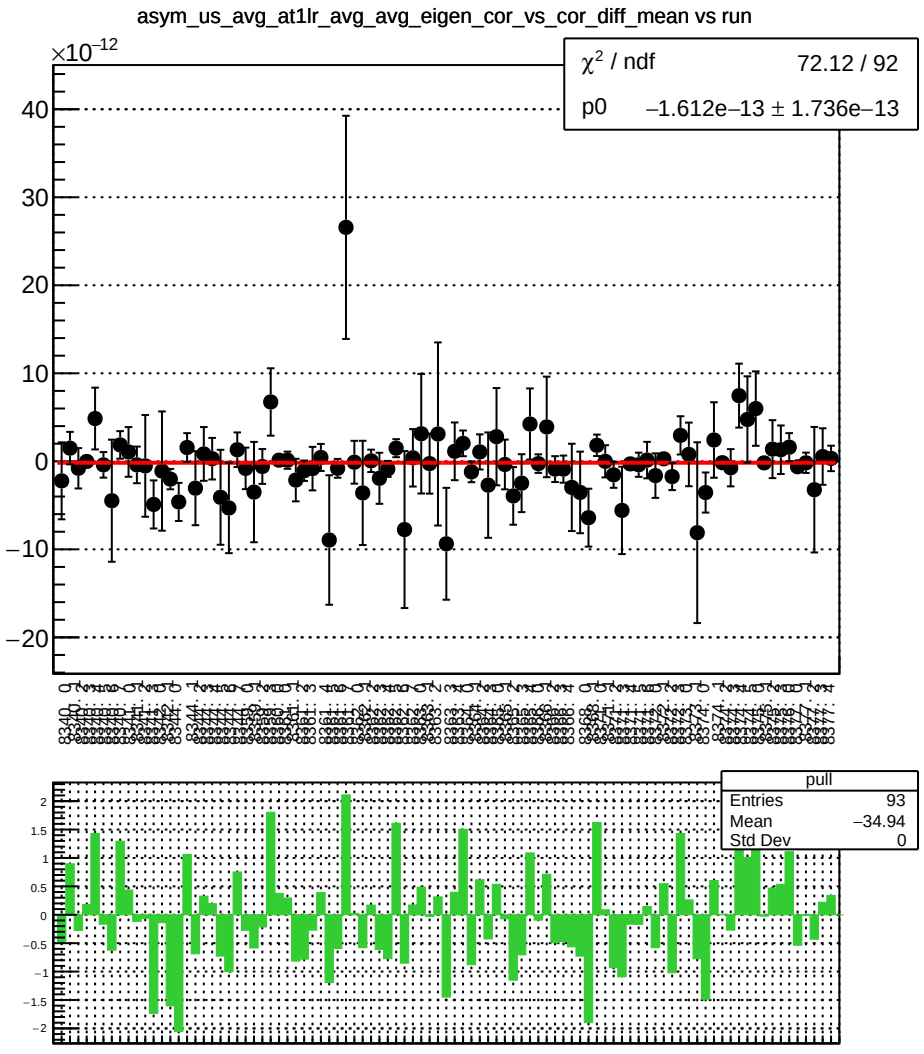

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 92
p0 −0.01948 ± 0.09937
pull
Entries 93
Mean 175.6
Std Dev 0
pull1D
Entries 93
Mean −0.04198
Std Dev 0.9572

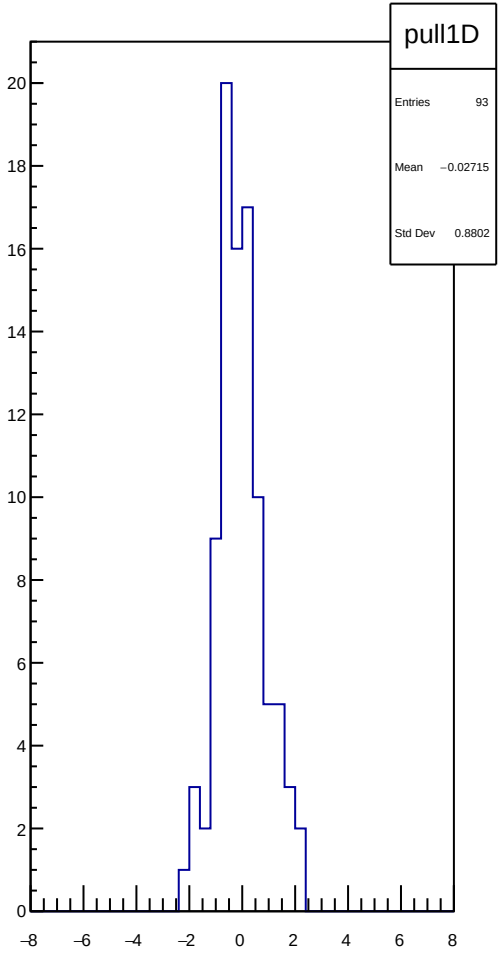

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.042e+05 / 92
p0 89.69 ± 0.07026
300
250
200
150
100
50

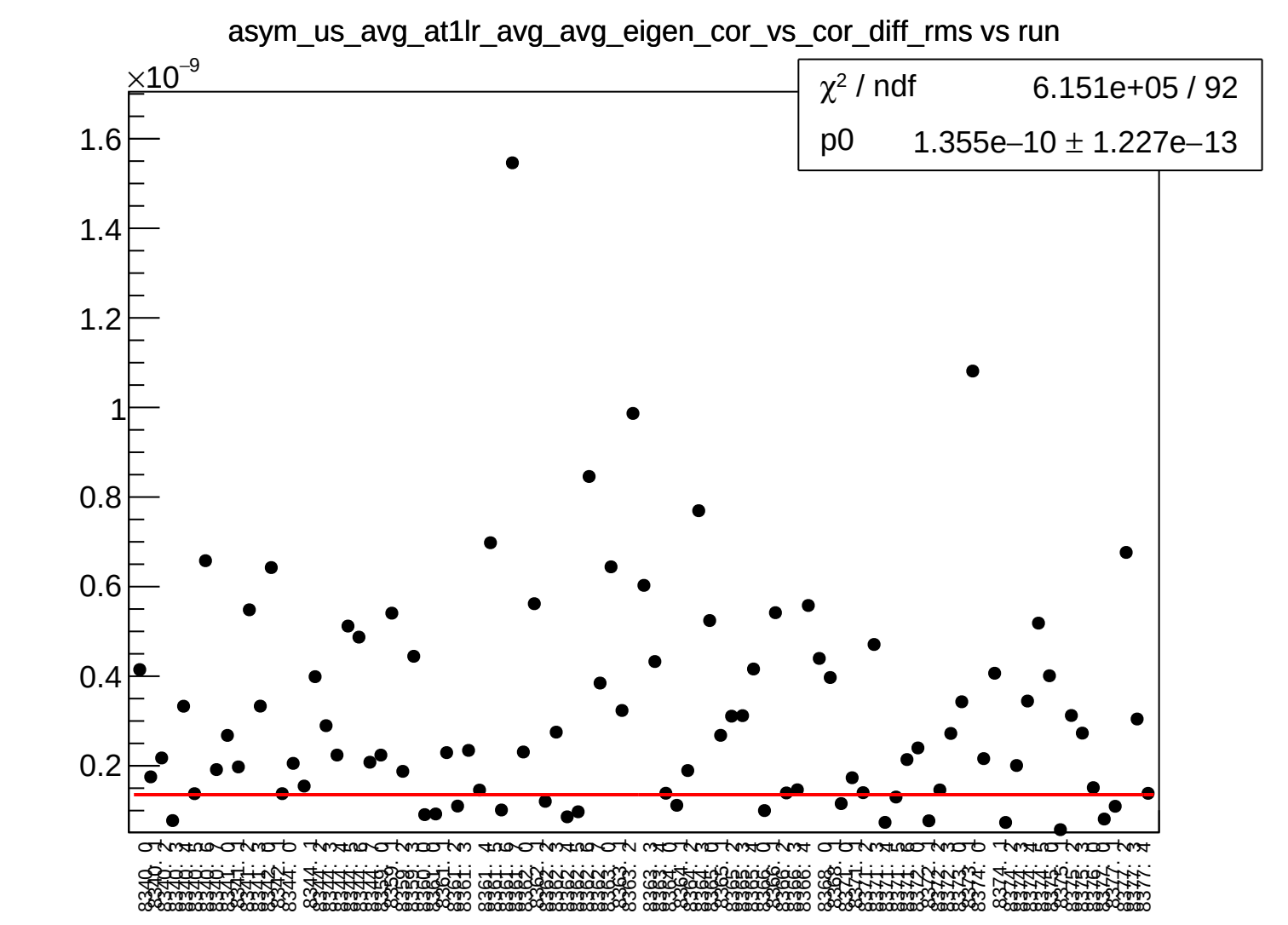

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 92
p0 −0.01948 ± 0.09937
pull
Entries 93
Mean 175.6
Std Dev 0

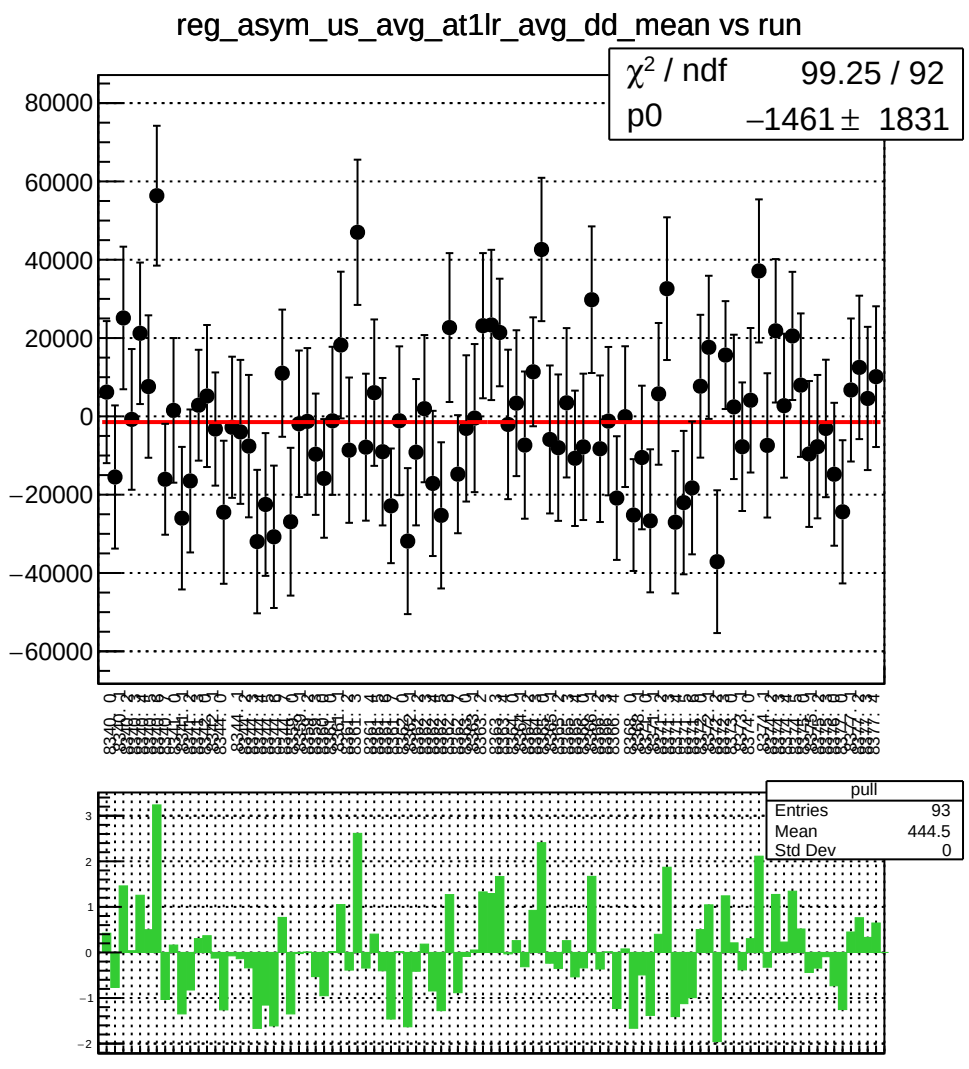

pull1D
Entries 93
Mean −0.04198
Std Dev 0.9572

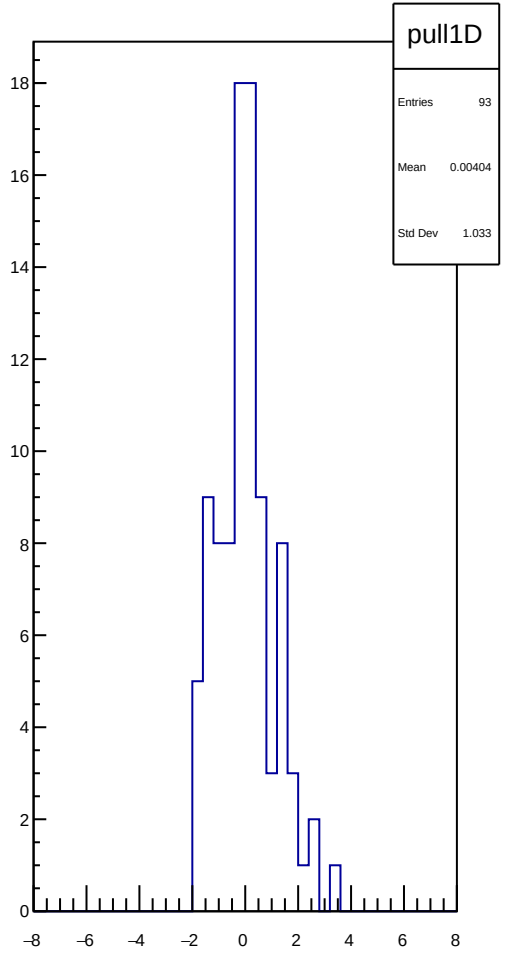

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.042e+05 / 92
p0 89.69 ± 0.07026
300
250
200
150
100
50

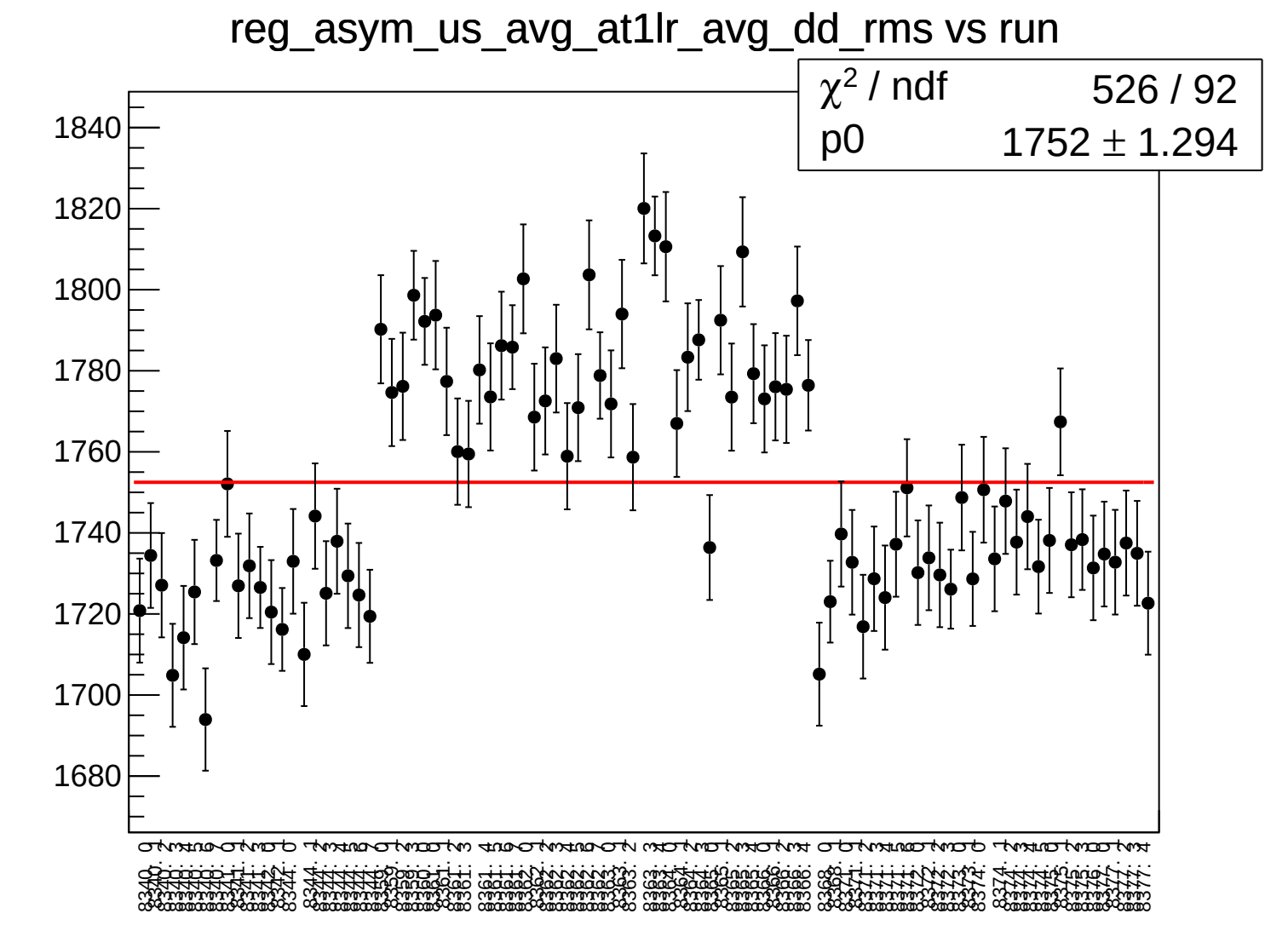

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.12 / 92
p0 −1.612e−13 ± 1.736e−13
pull
Entries 93
Mean −34.94
Std Dev 0

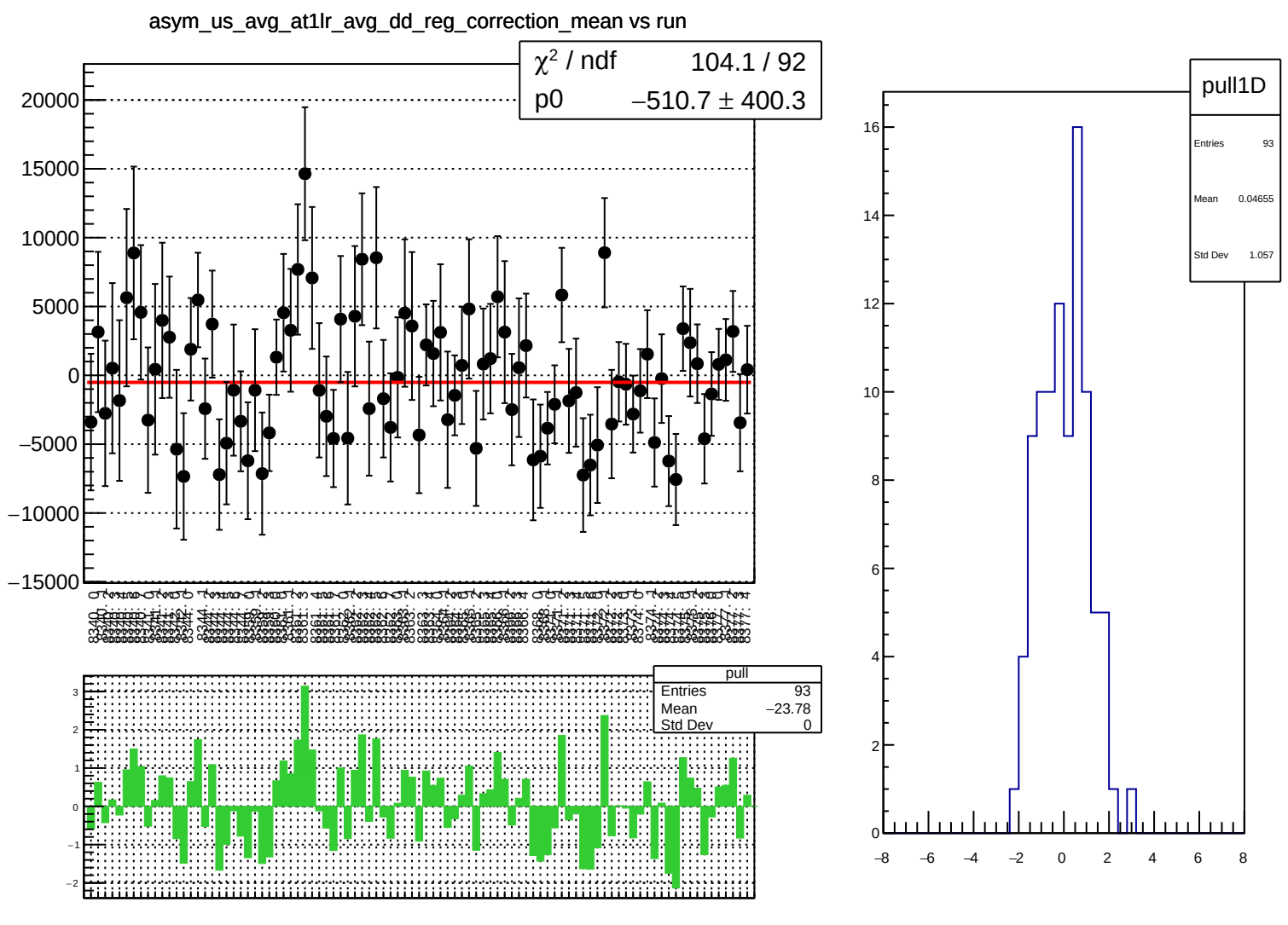

pull1D
Entries 93
Mean −0.02715
Std Dev 0.8802

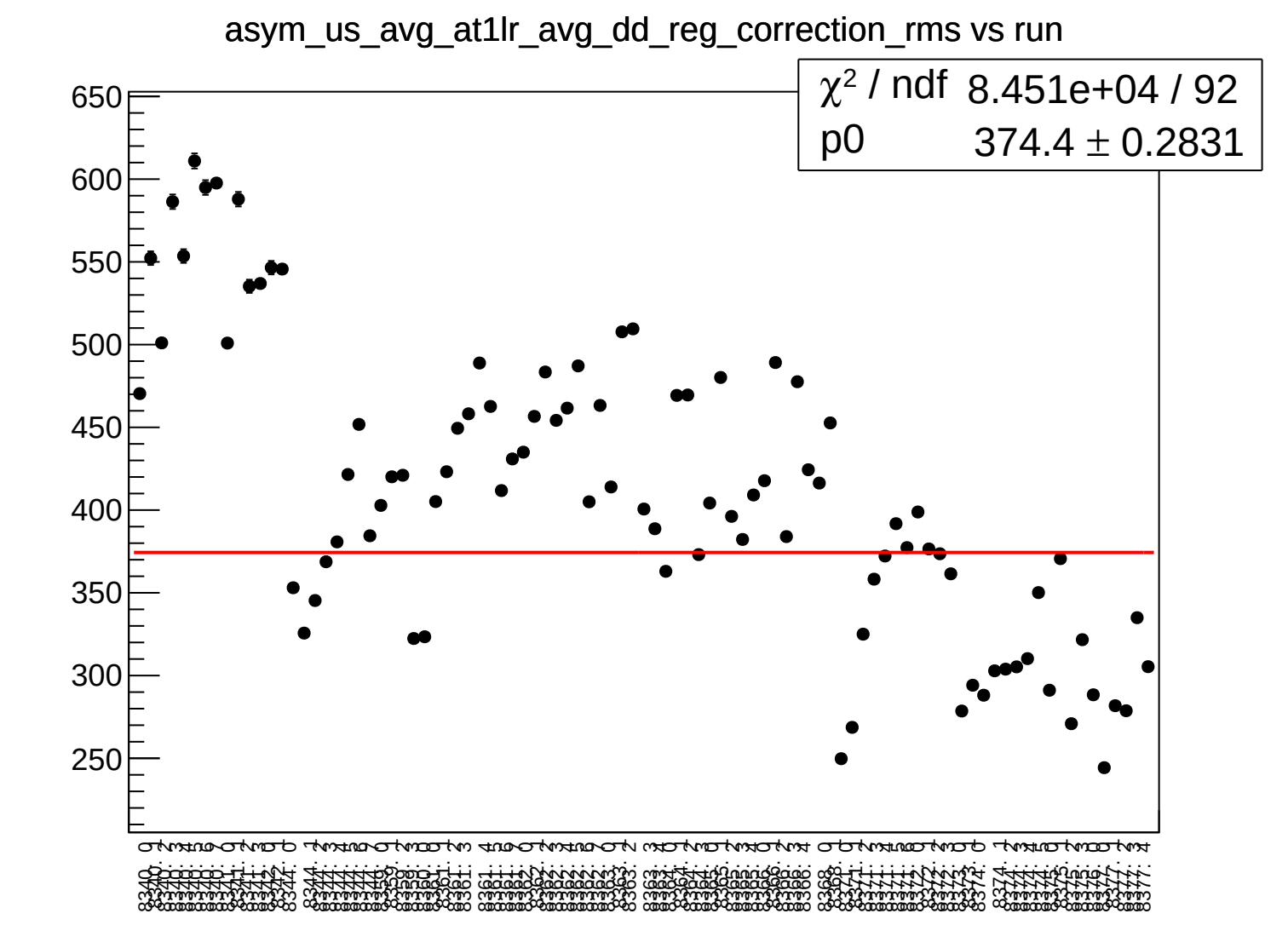

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.151e+05 / 92
p0 1.355e−10 ± 1.227e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

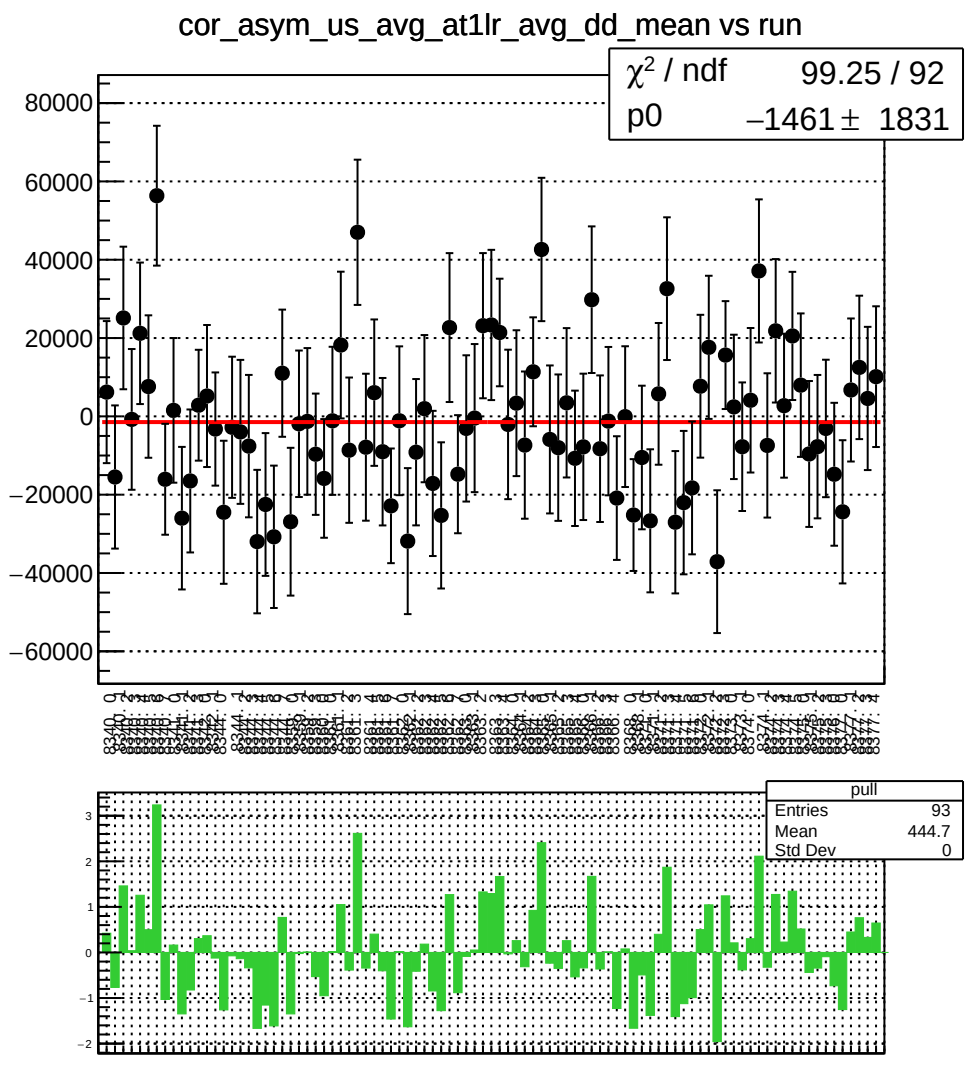

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −1461 ± 1831
pull
Entries 93
Mean 444.5
Std Dev 0

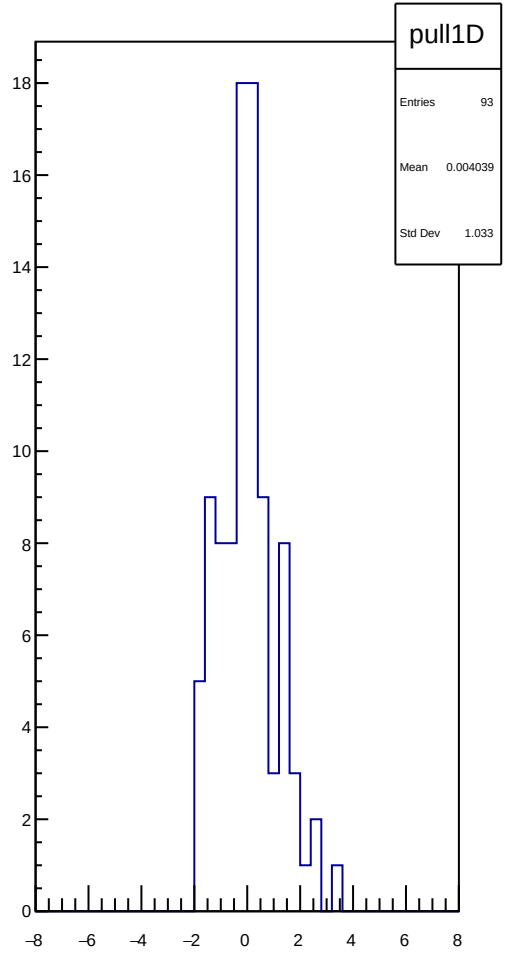

pull1D
Entries 93
Mean 0.00404
Std Dev 1.033

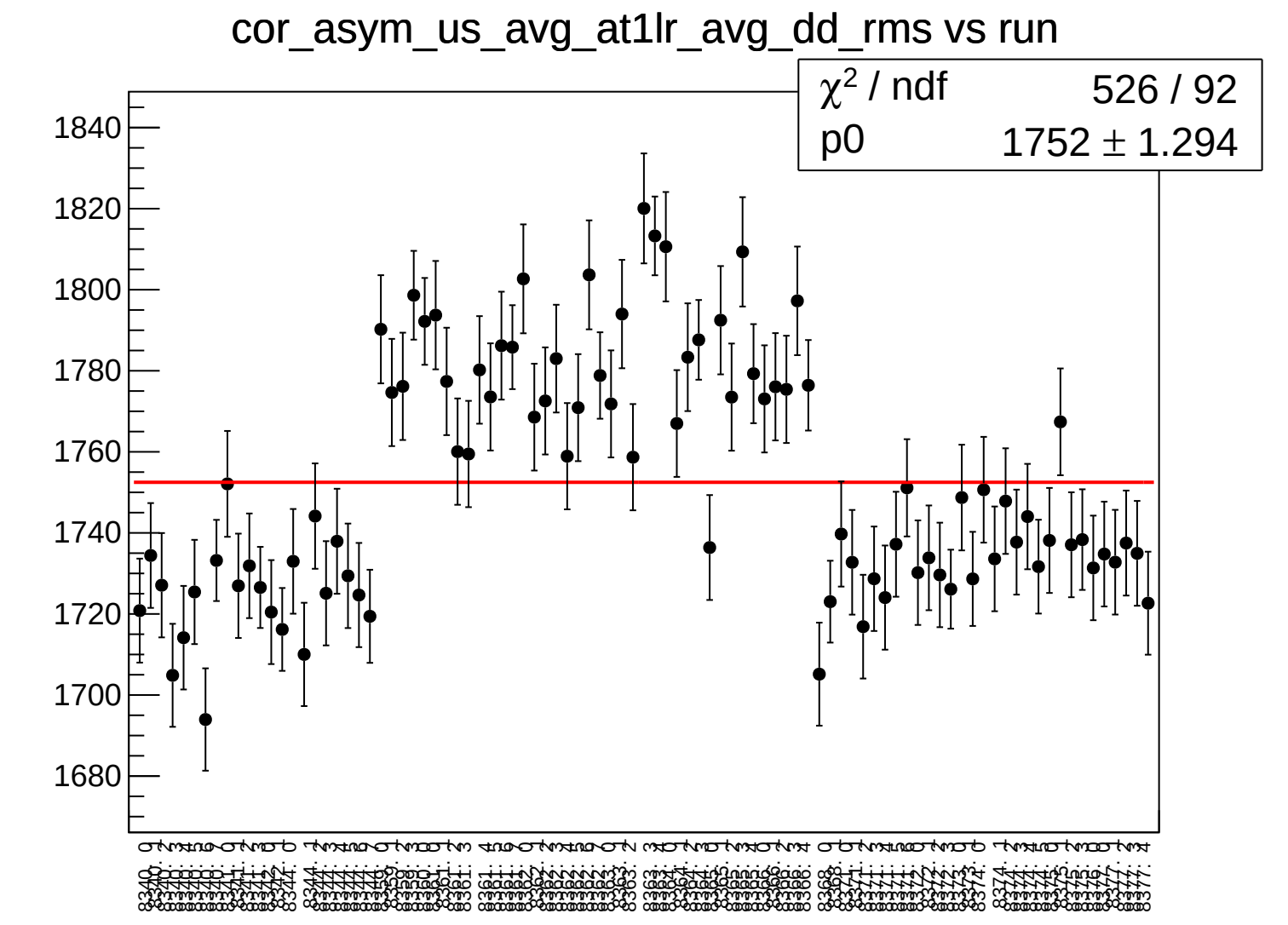

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 526 / 92
p0 1752 ± 1.294
1840
1820
1800
1780
1760
1740
1720
1700
1680

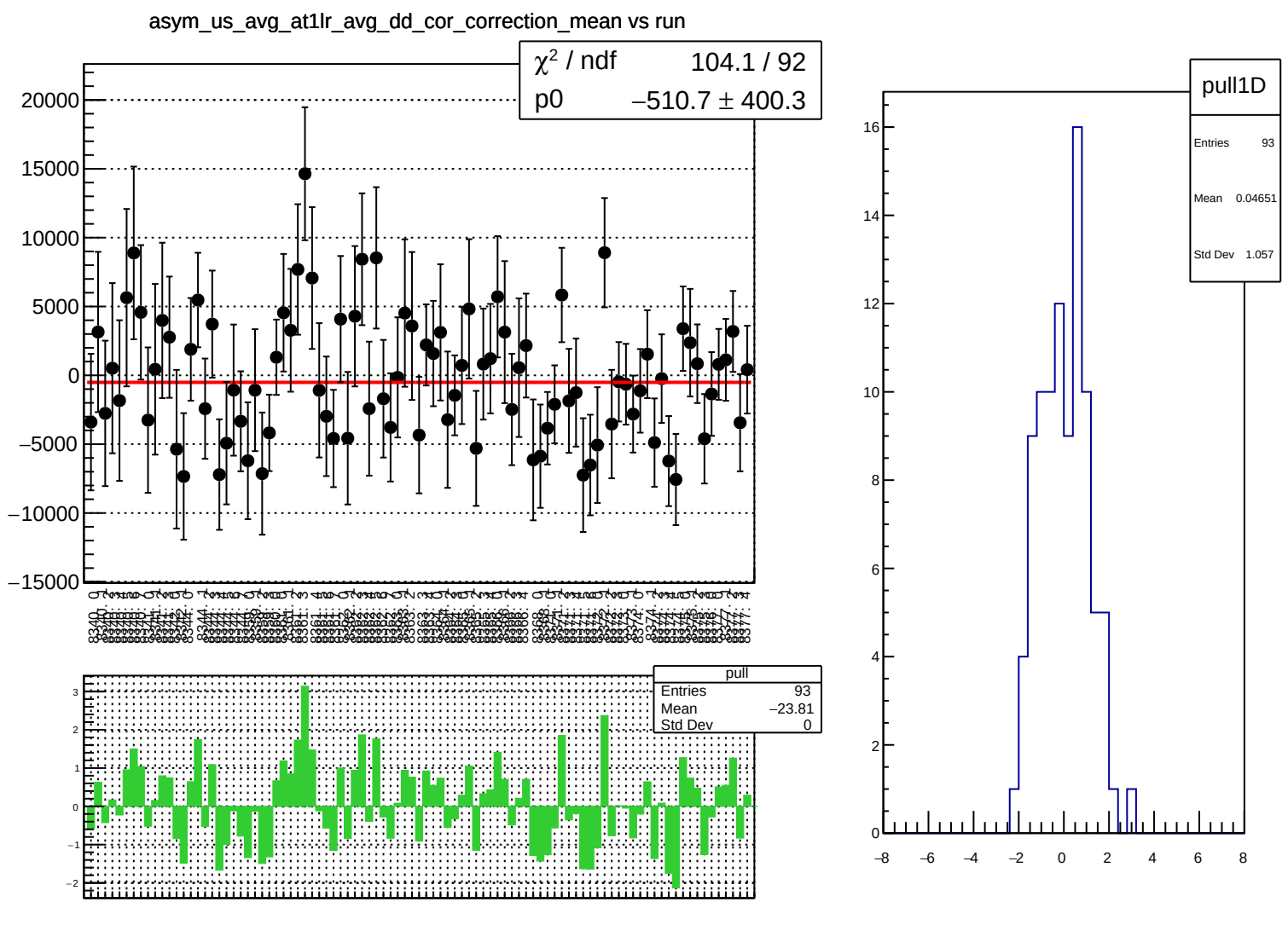

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 104.1 / 92
p0 −510.7 ± 400.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −23.78
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04655
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

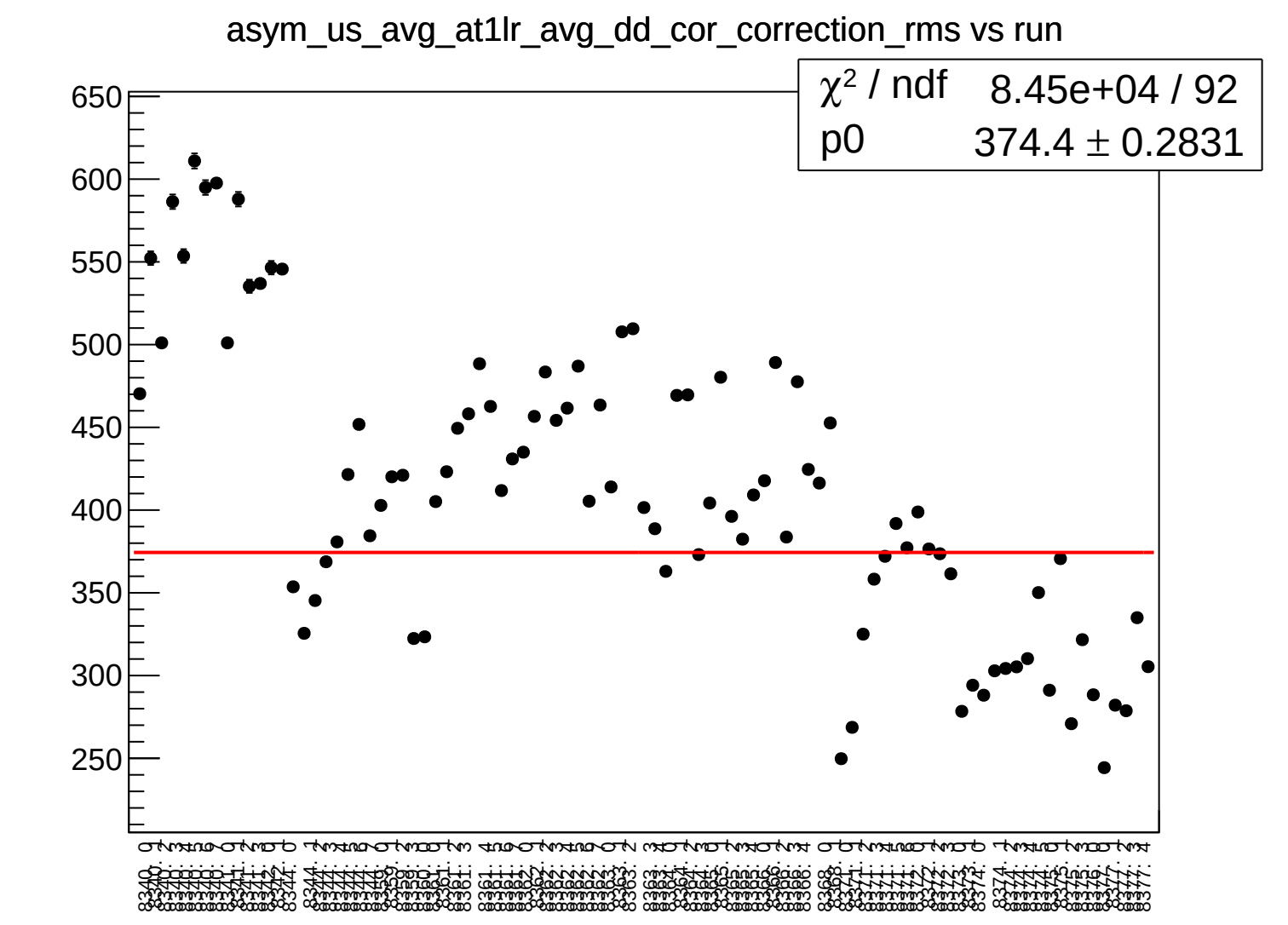

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8.451e+04 / 92
p0 374.4 ± 0.2831
650
600
550
500
450
400
350
300
250

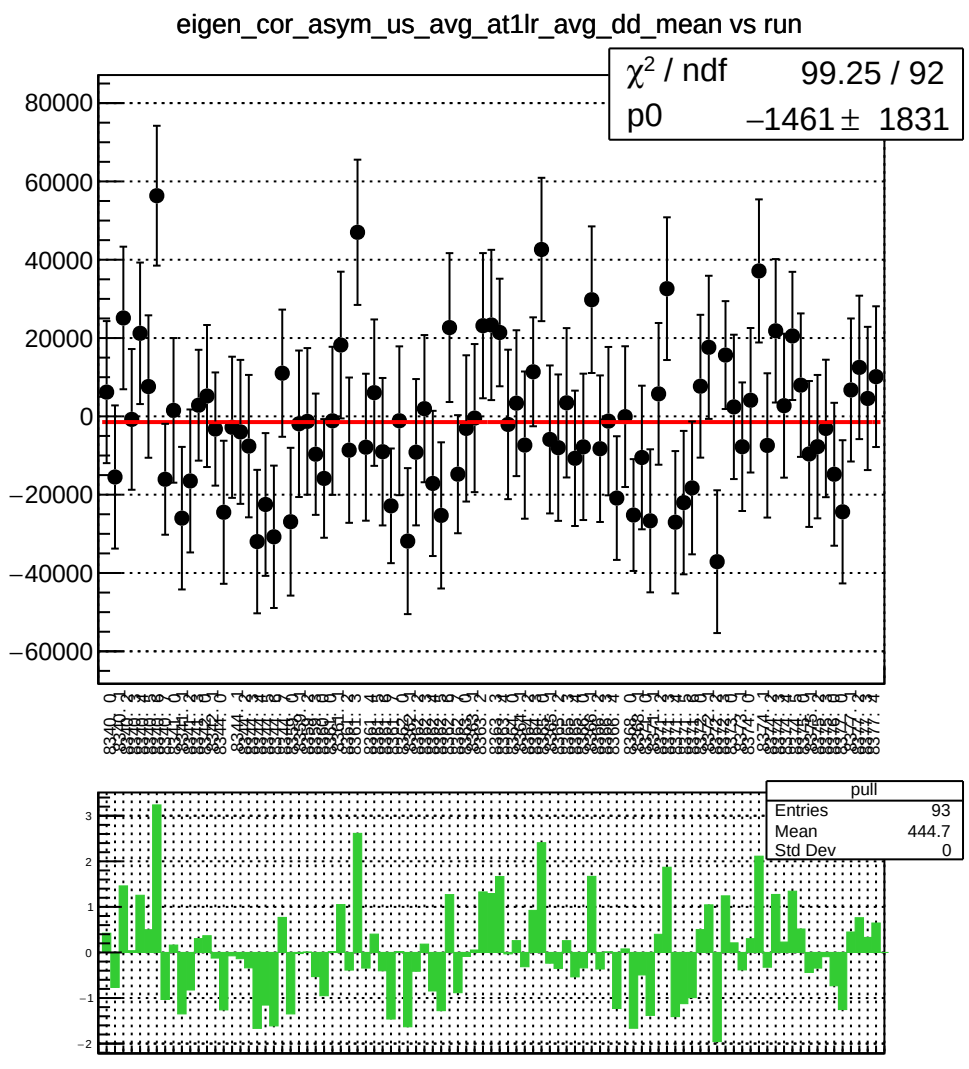

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −1461 ± 1831
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 444.7
Std Dev 0
3
2
1
0
−1
−2

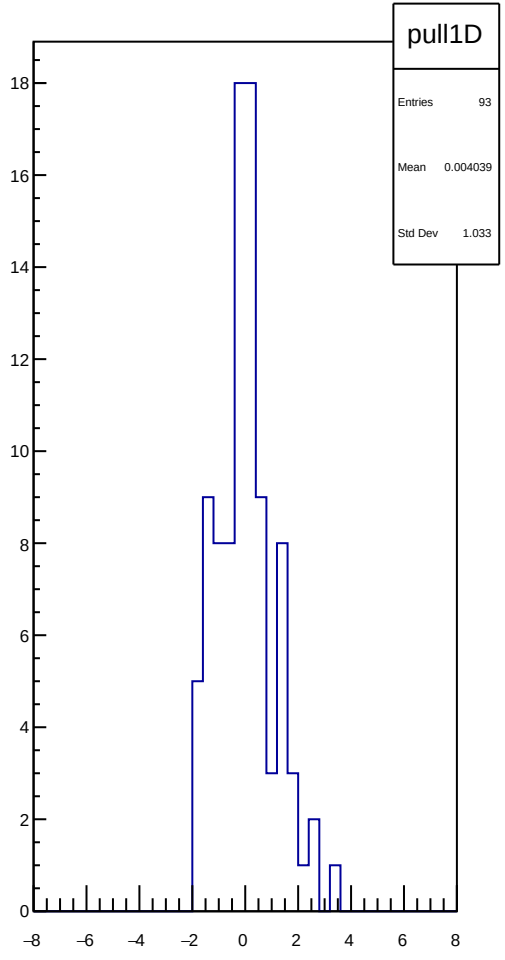

pull1D
Entries 93
Mean 0.004039
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

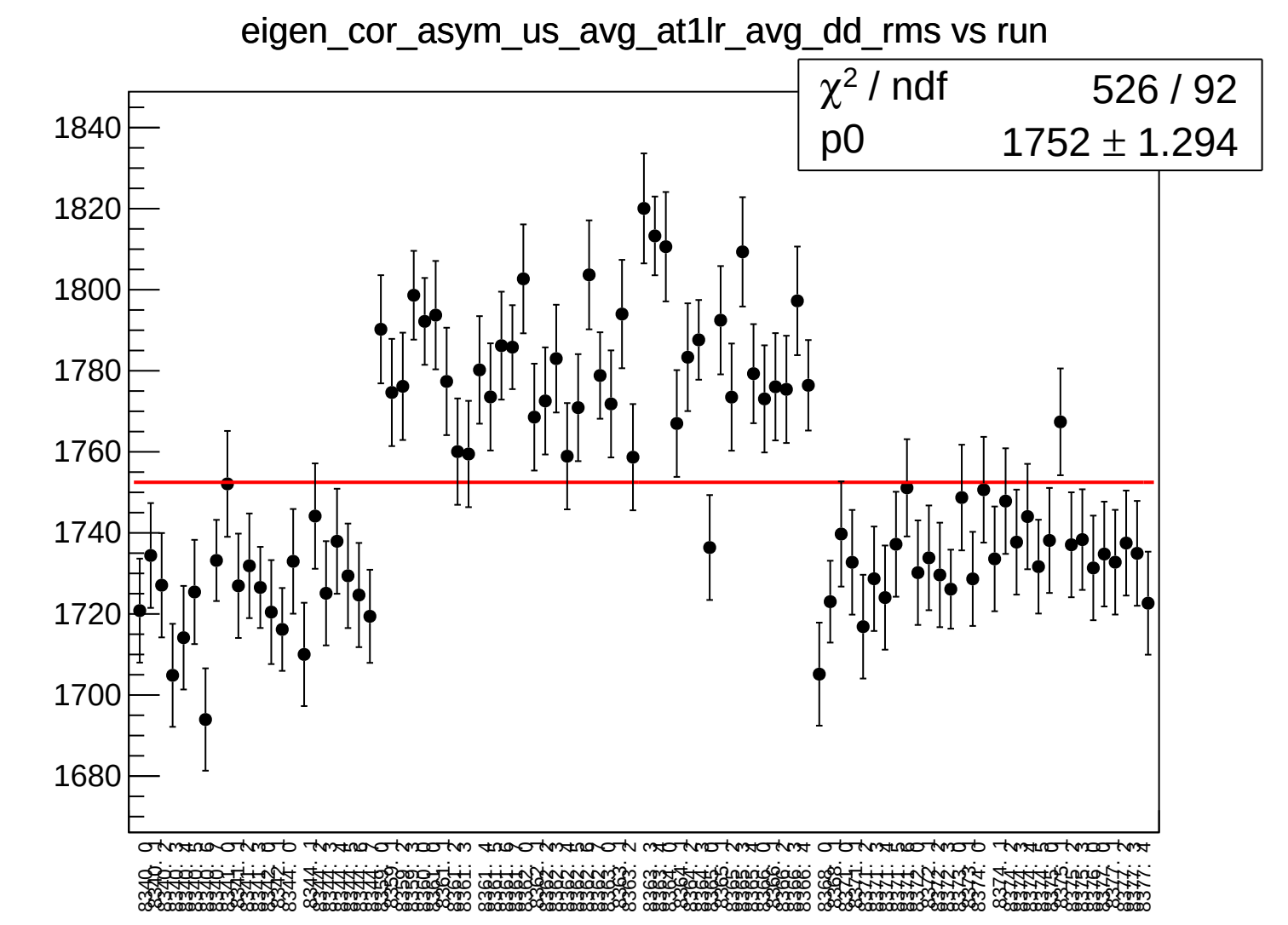

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 526 / 92
p0 1752 ± 1.294
1840
1820
1800
1780
1760
1740
1720
1700
1680

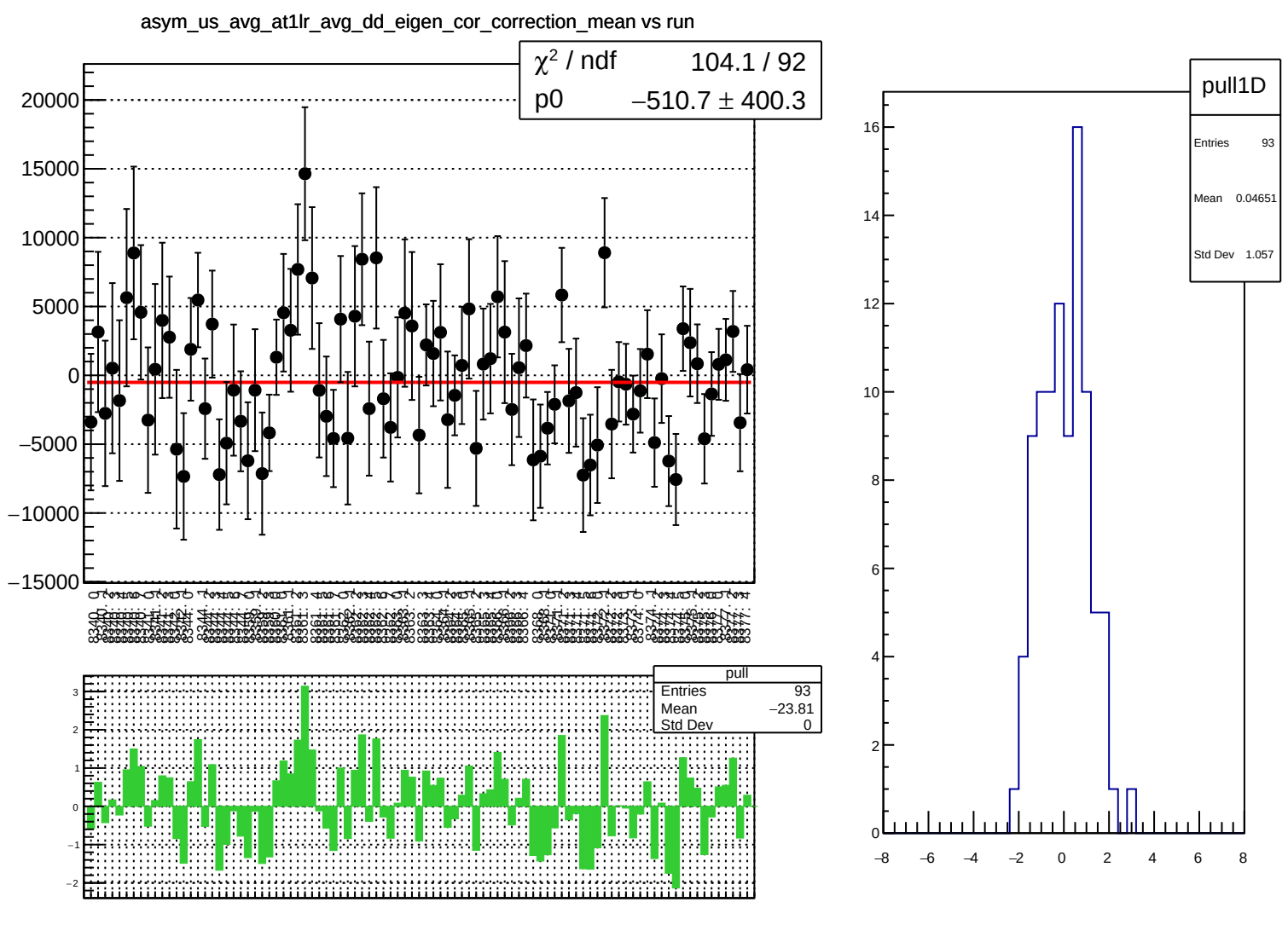

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 104.1 / 92
p0 −510.7 ± 400.3
pull
Entries 93
Mean −23.81
Std Dev 0
pull1D
Entries 93
Mean 0.04651
Std Dev 1.057

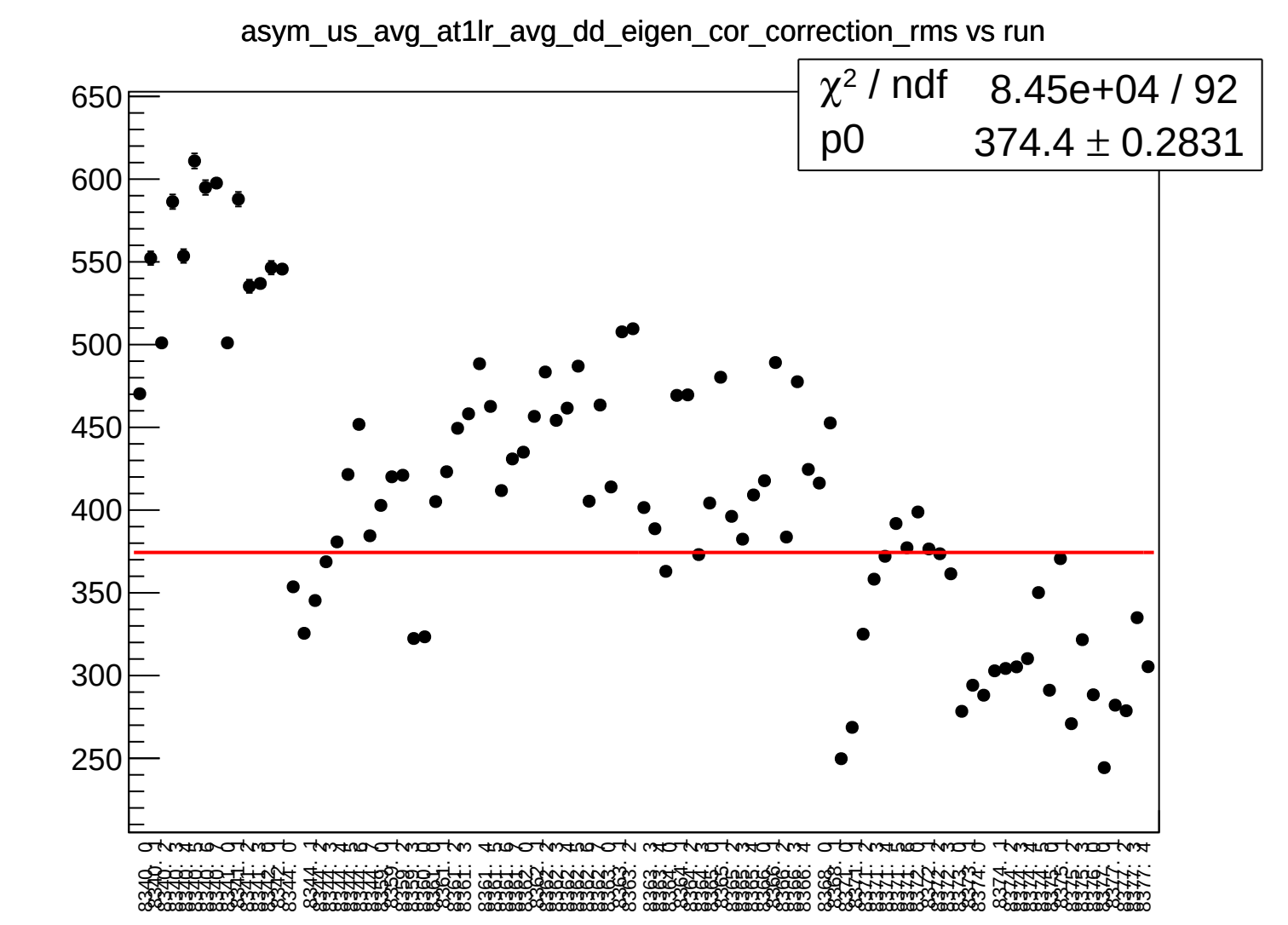

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8.45e+04 / 92
p0 374.4 ± 0.2831
650
600
550
500
450
400
350
300
250

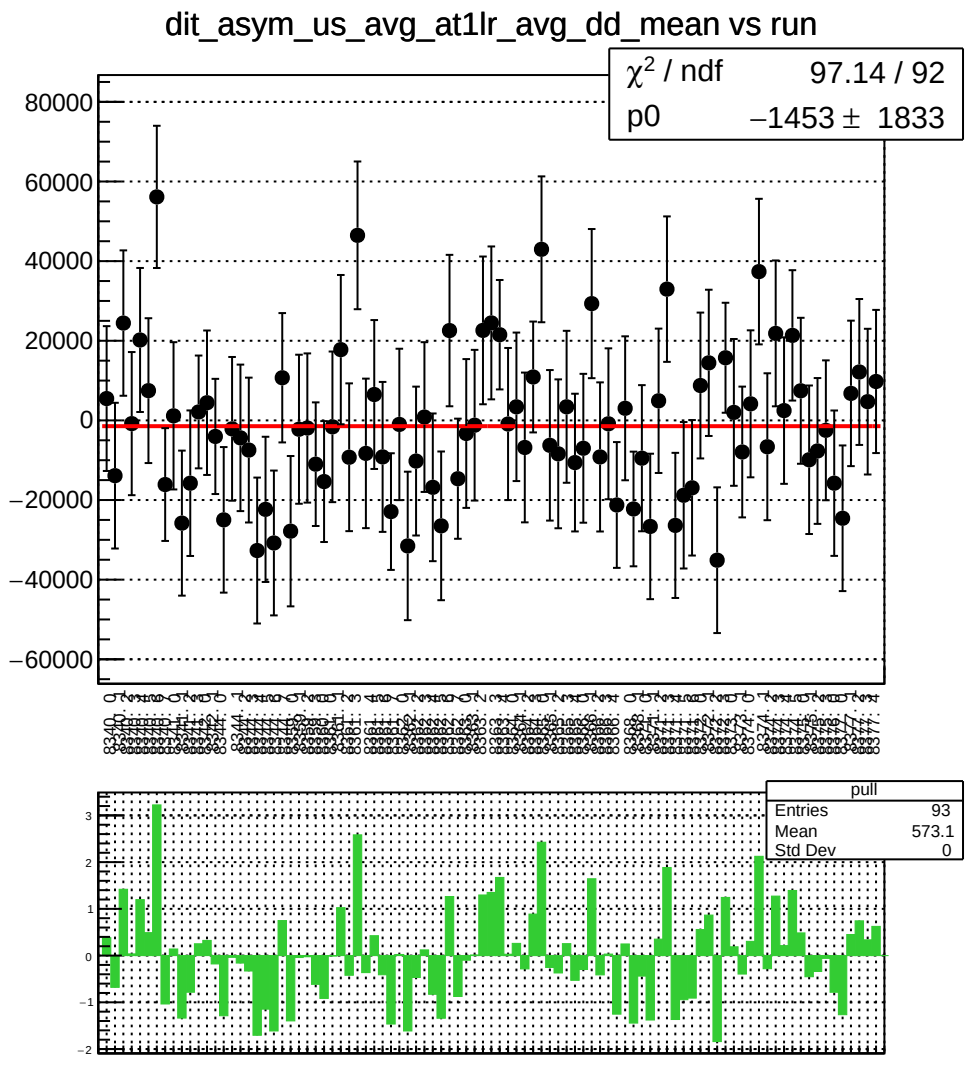

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −1461 ± 1831
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 444.7
Std Dev 0
3
2
1
0
−1
−2

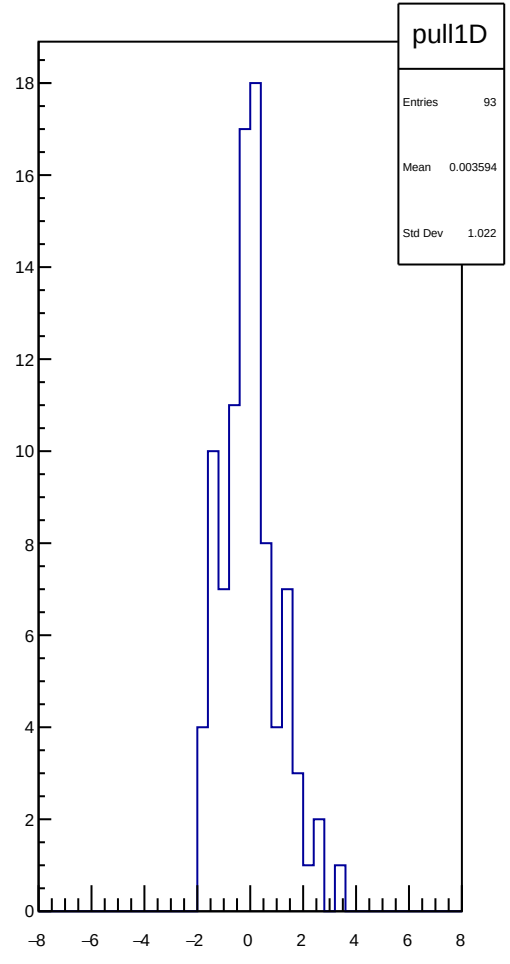

pull1D
Entries 93
Mean 0.004039
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

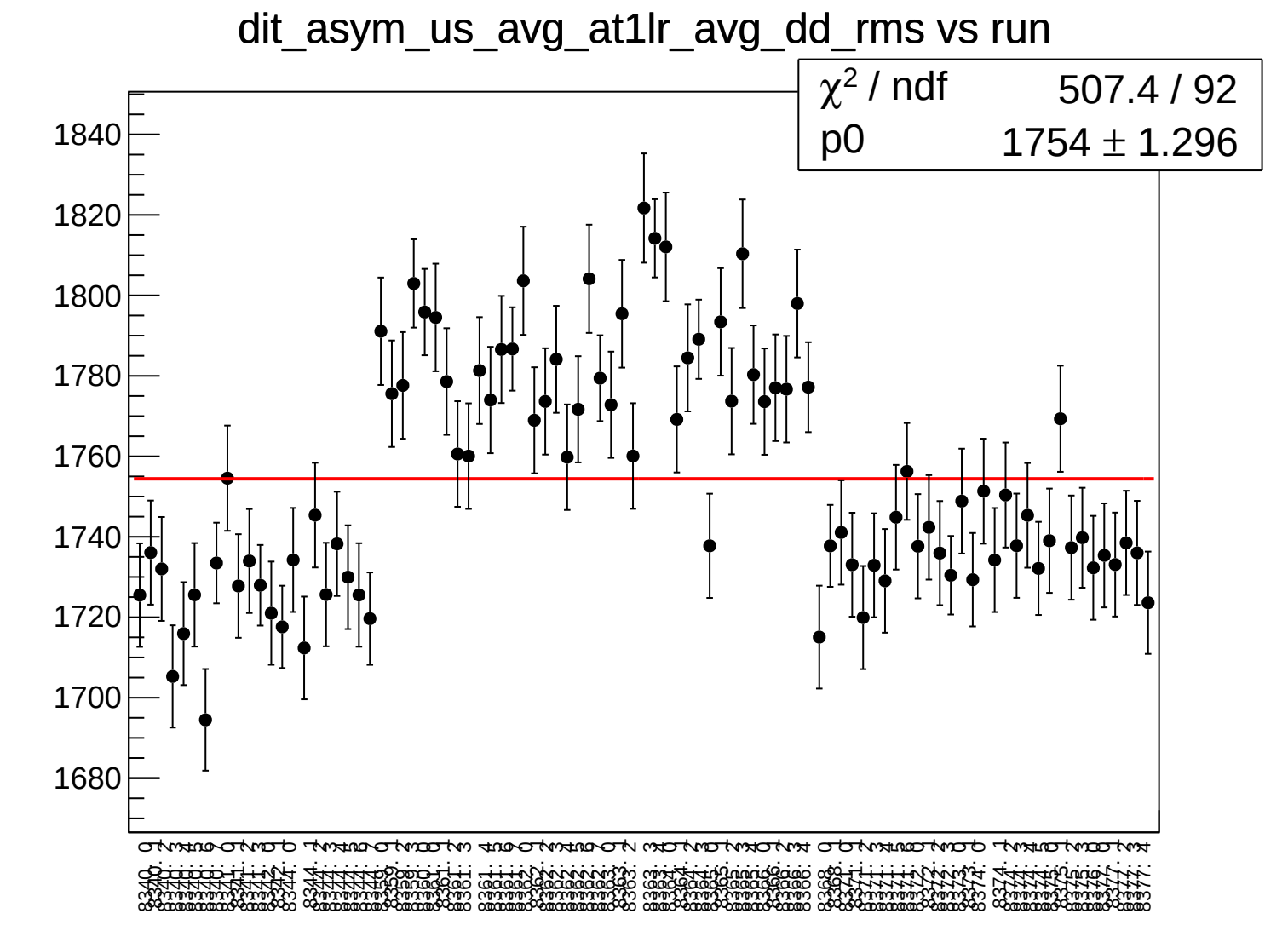

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 526 / 92
p0 1752 ± 1.294
1840
1820
1800
1780
1760
1740
1720
1700
1680

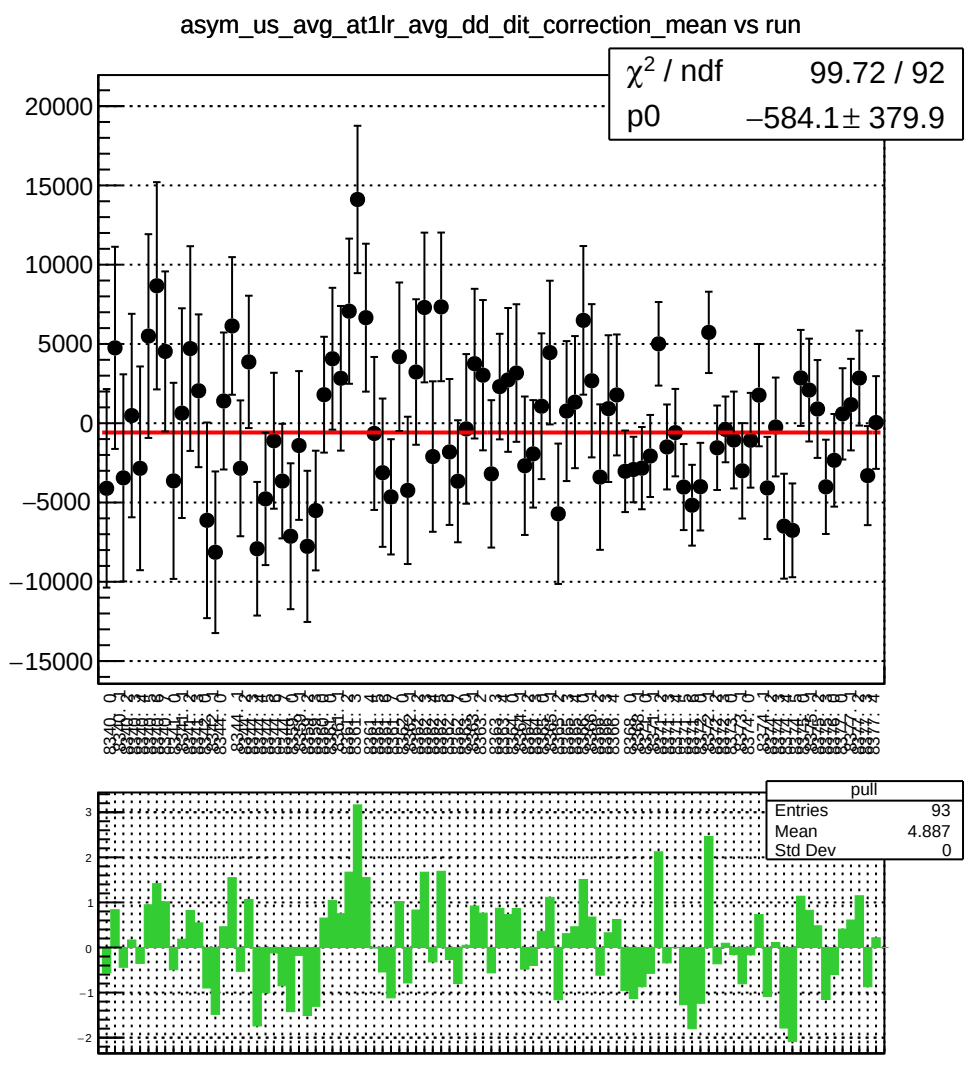

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 104.1 / 92
p0 −510.7 ± 400.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −23.81
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.04651
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

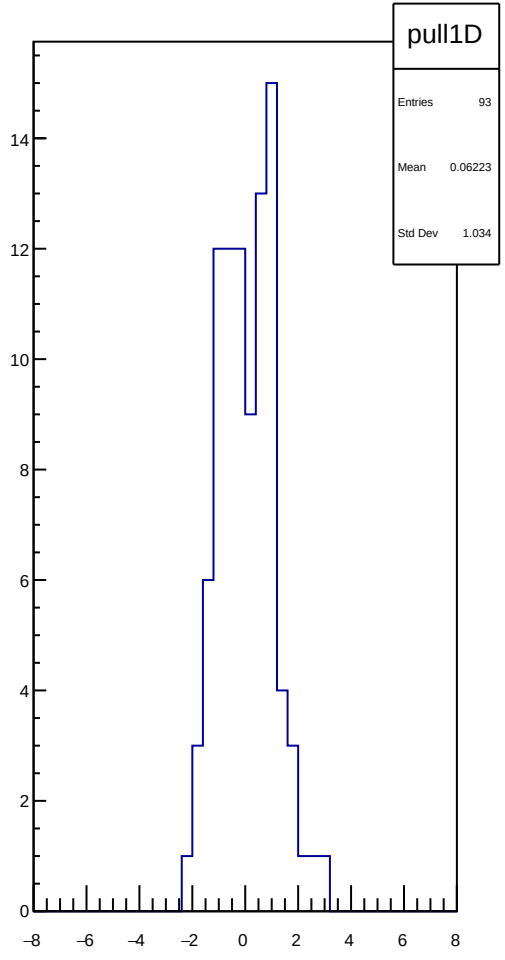

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8.45e+04 / 92
p0 374.4 ± 0.2831
650
600
550
500
450
400
350
300
250

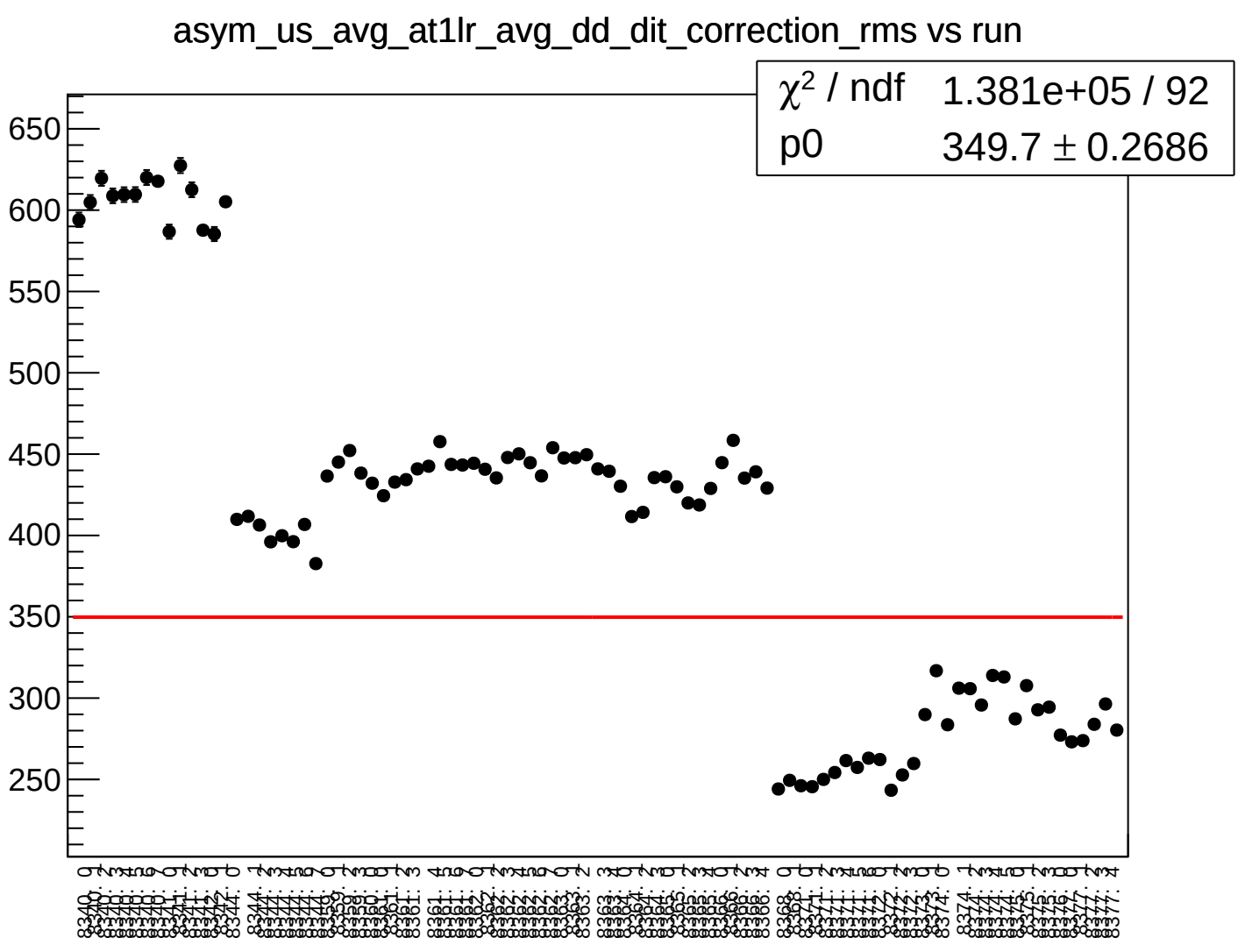

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.14 / 92
p0 −1453 ± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 573.1
Std Dev 0
3
2
1
0
−1
−2

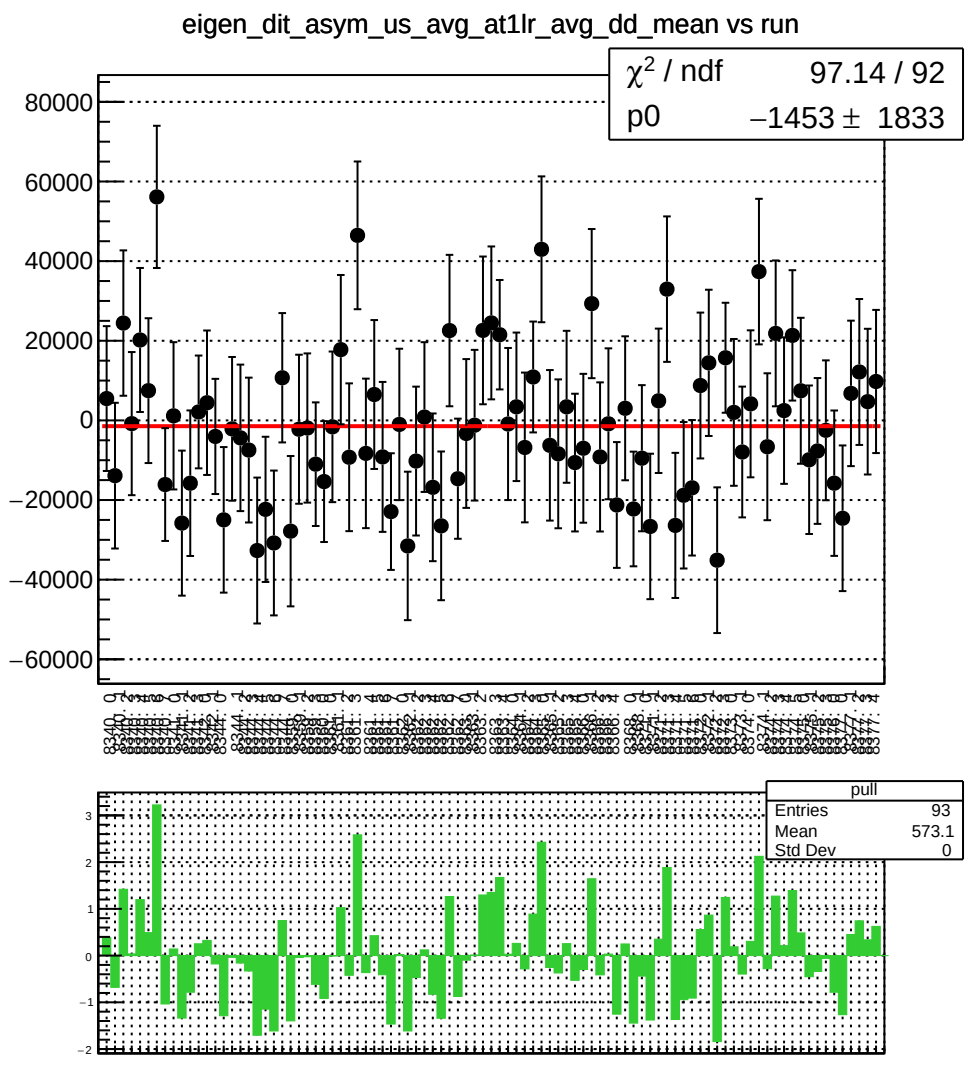

pull1D
Entries 93
Mean 0.003594
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

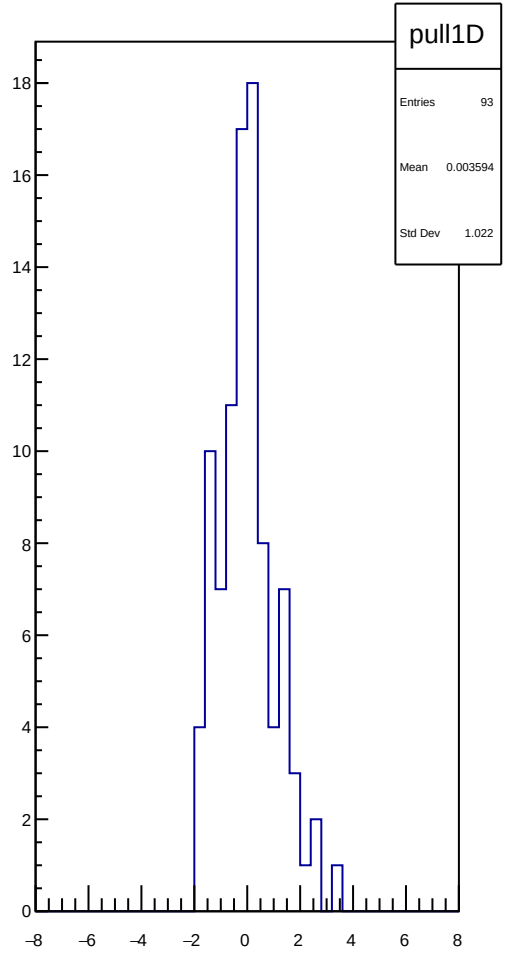

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 507.4 / 92
p0 1754 ± 1.296
1840
1820
1800
1780
1760
1740
1720
1700
1680

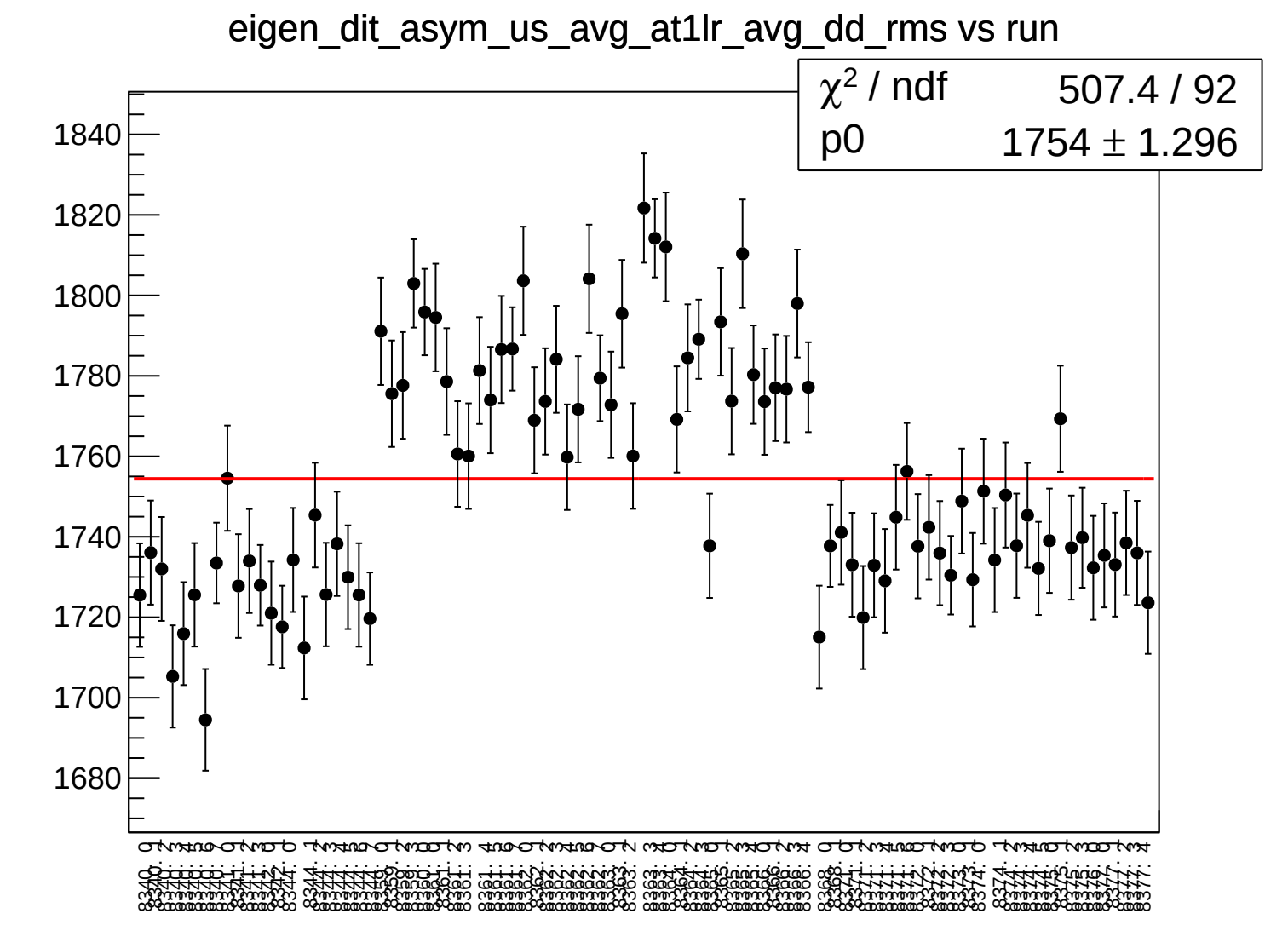

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 99.72 / 92
p0 −584.1± 379.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 4.887
Std Dev 0
3
2
1
0
−1
−2

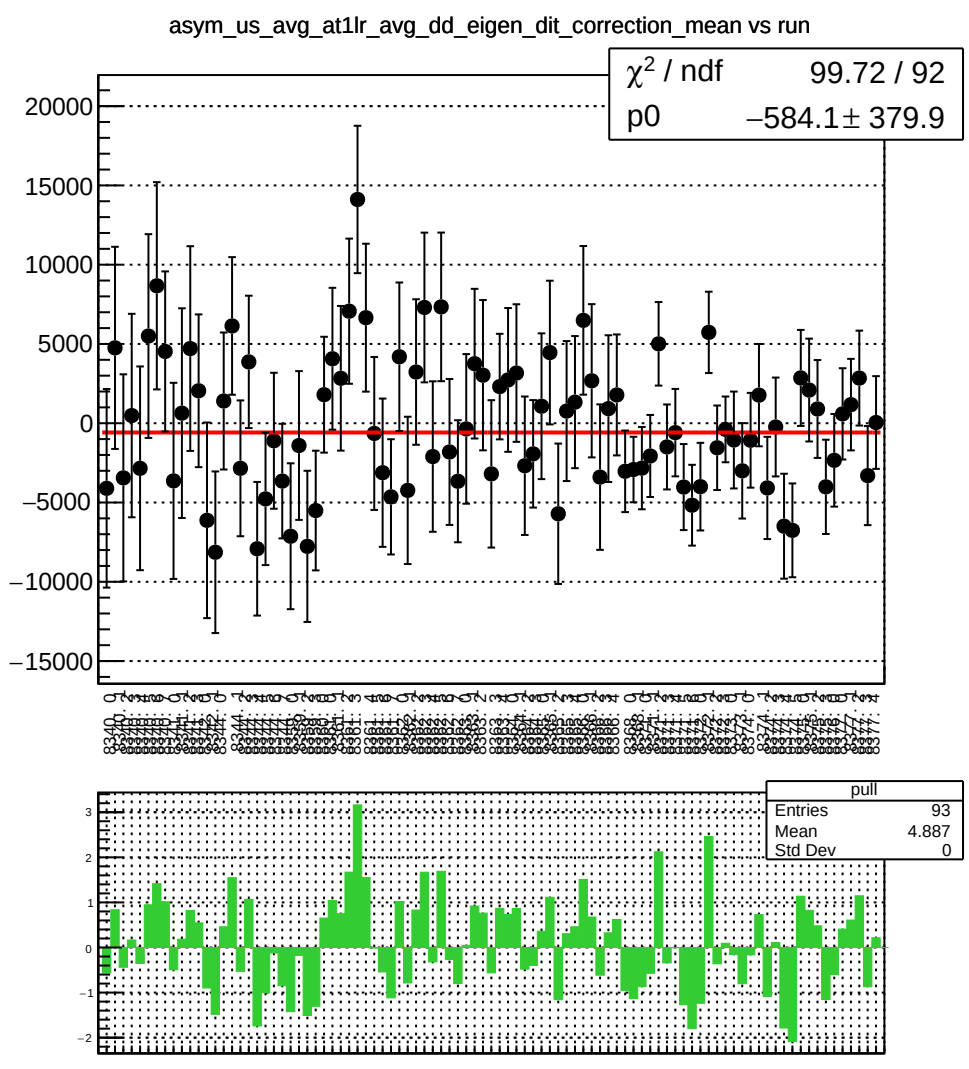

pull1D
Entries 93
Mean 0.06223
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

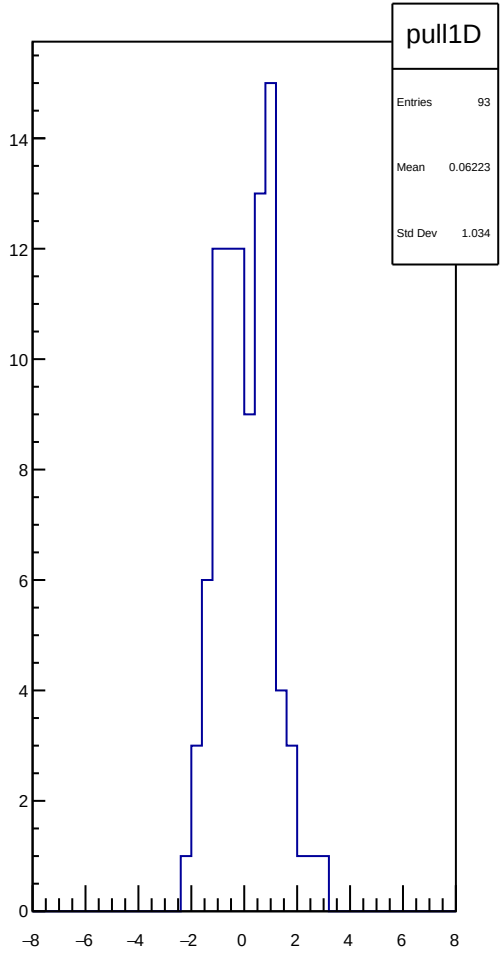

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.381e+05 / 92
p0 349.7 ± 0.2686
650
600
550
500
450
400
350
300
250

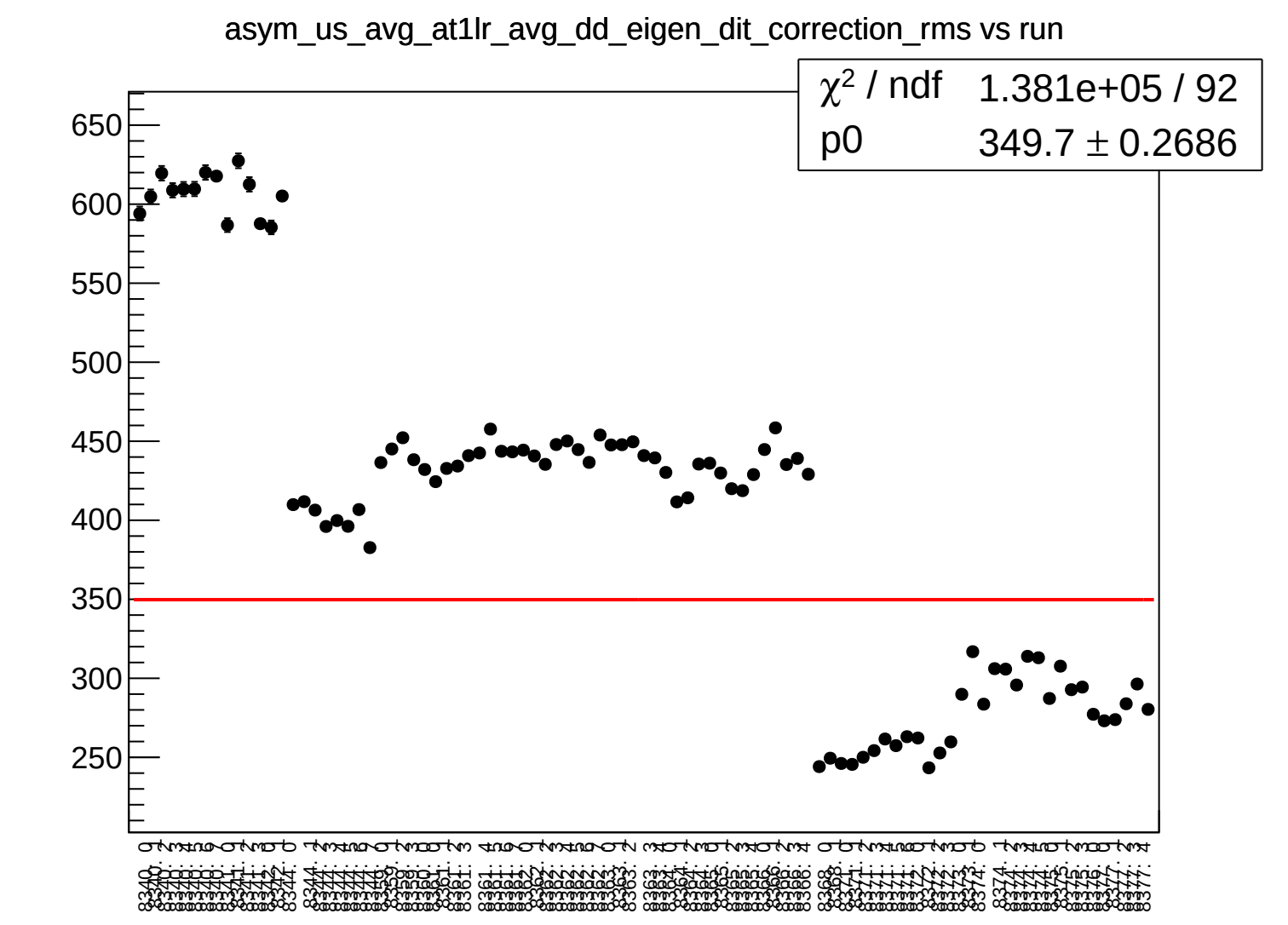

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.14 / 92
p0 −1453 ± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 573.1
Std Dev 0
3
2
1
0
−1
−2

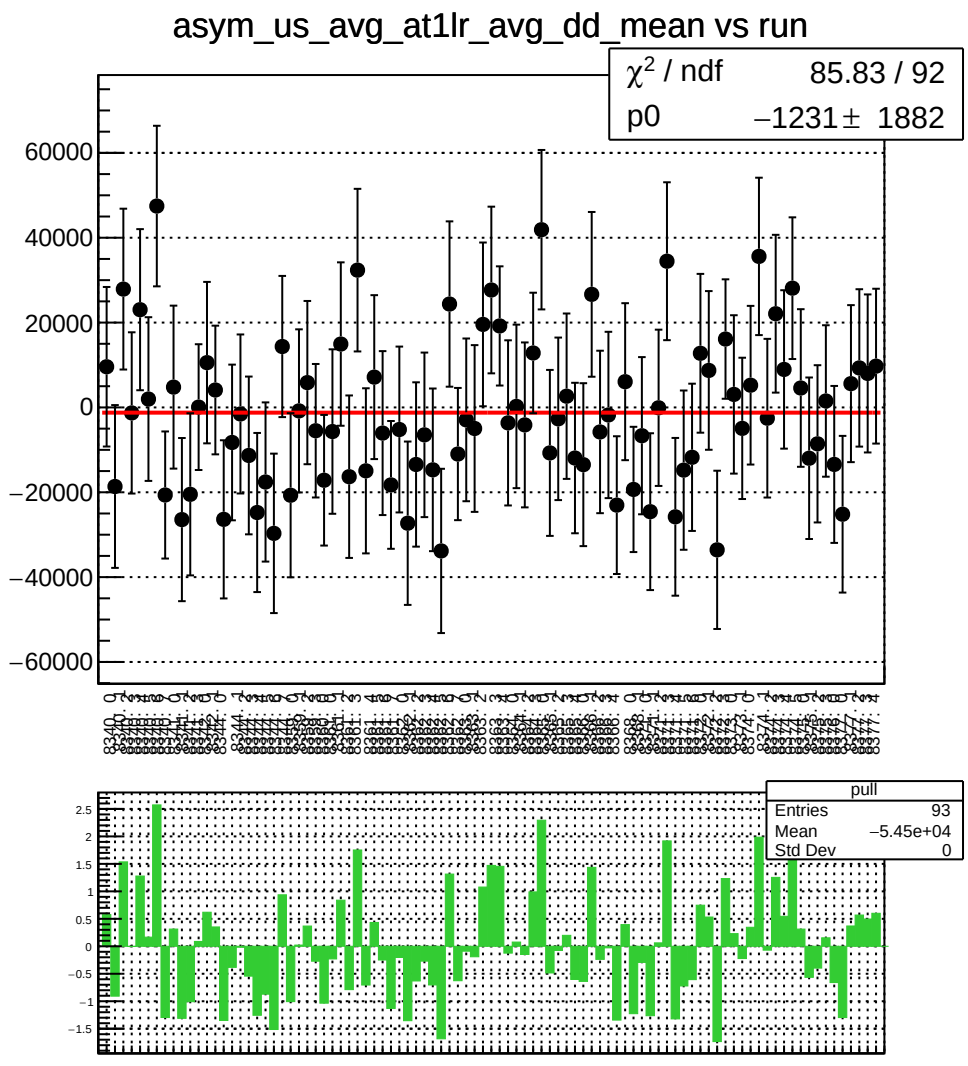

pull1D
Entries 93
Mean 0.003594
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

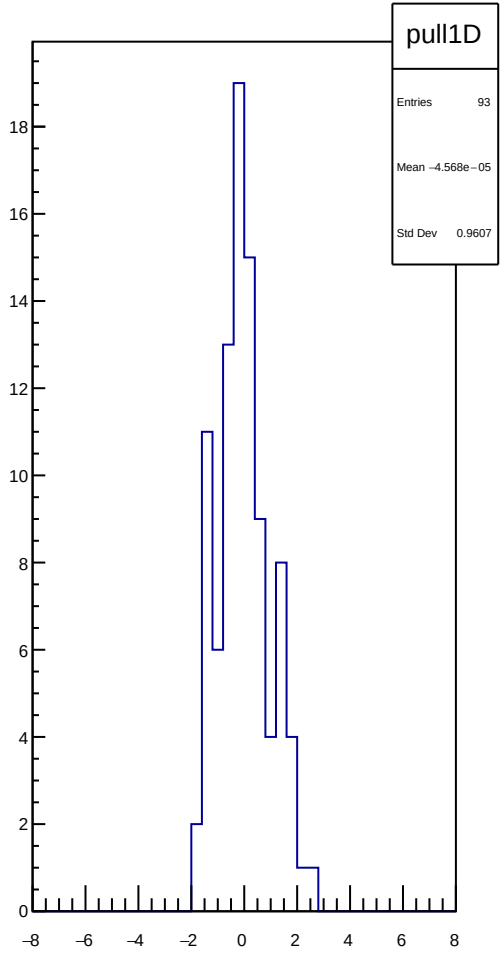

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 507.4 / 92
p0 1754 ± 1.296
1840
1820
1800
1780
1760
1740
1720
1700
1680

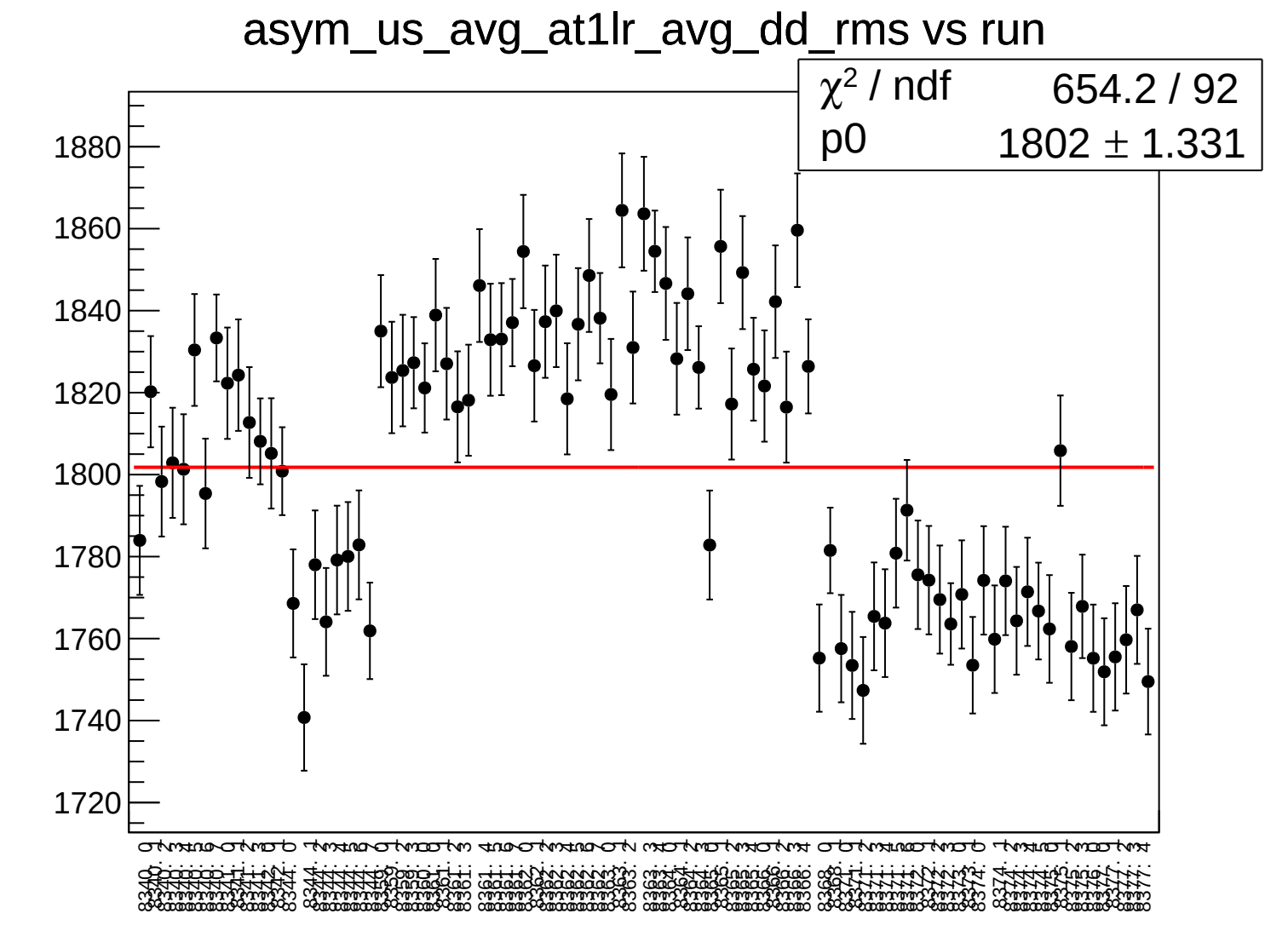

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.72 / 92
p0 −584.1± 379.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 4.887
Std Dev 0
3
2
1
0
−1
−2

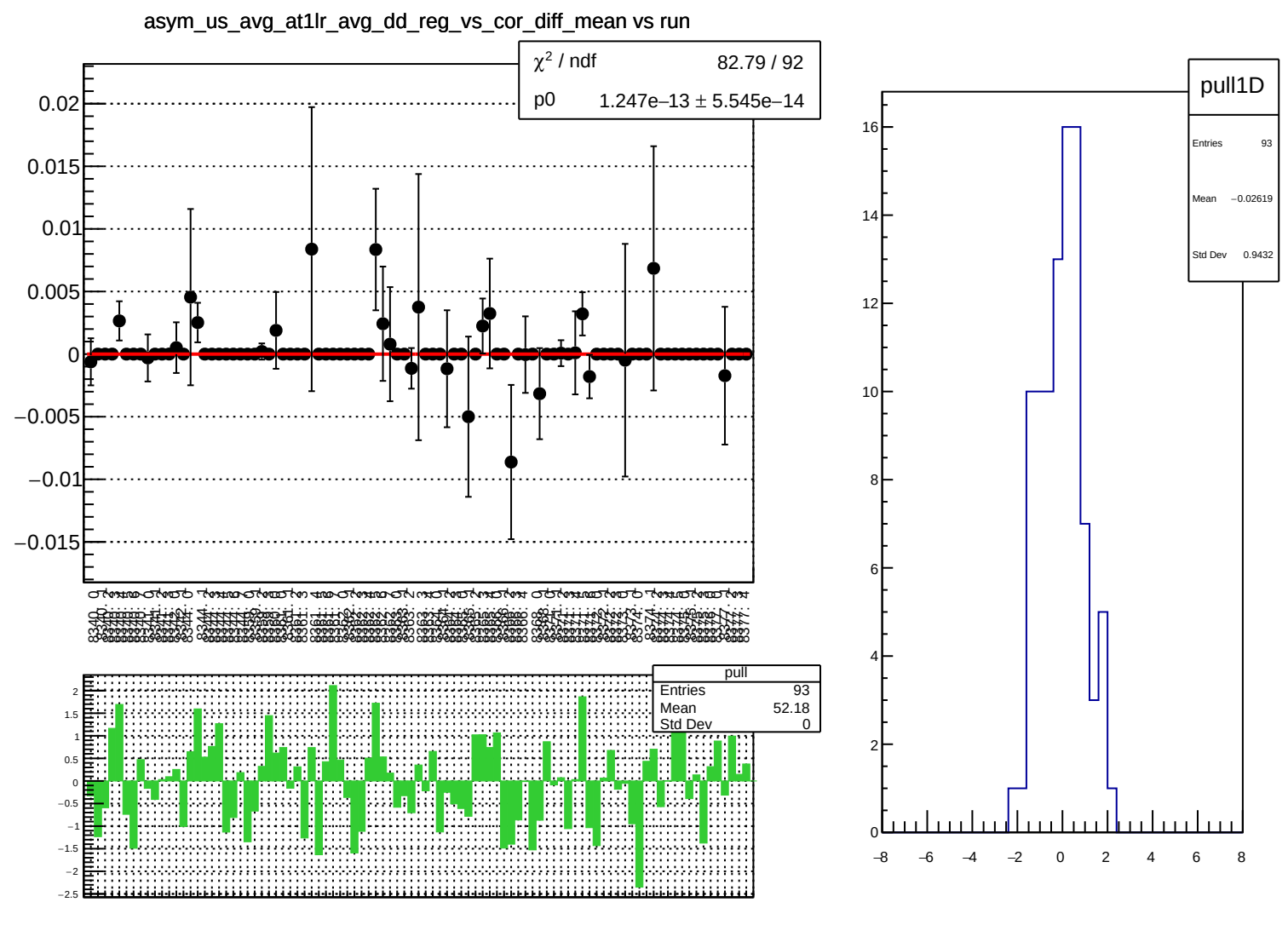

pull1D
Entries 93
Mean 0.06223
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

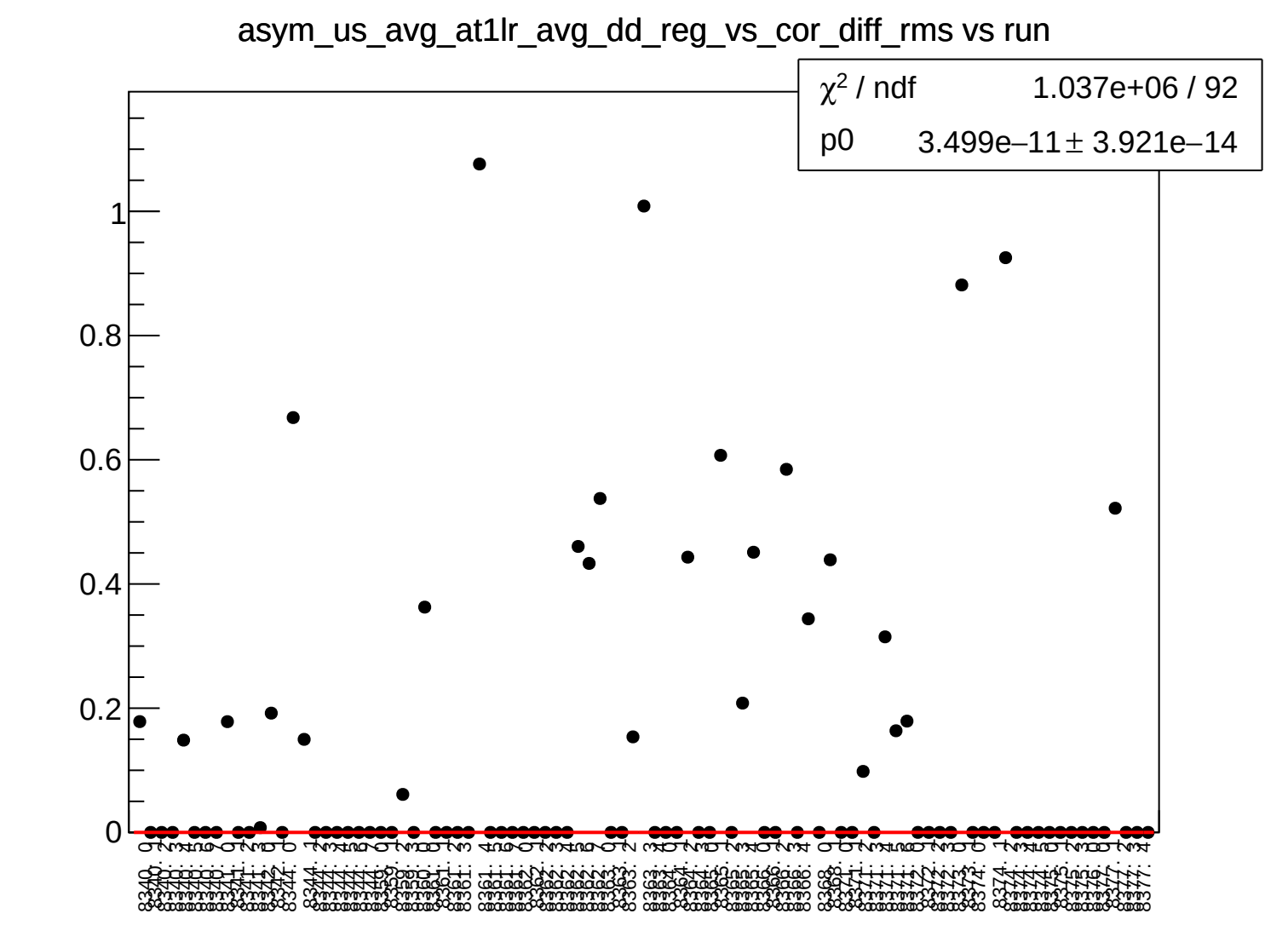

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.381e+05 / 92
p0 349.7 ± 0.2686
650
600
550
500
450
400
350
300
250

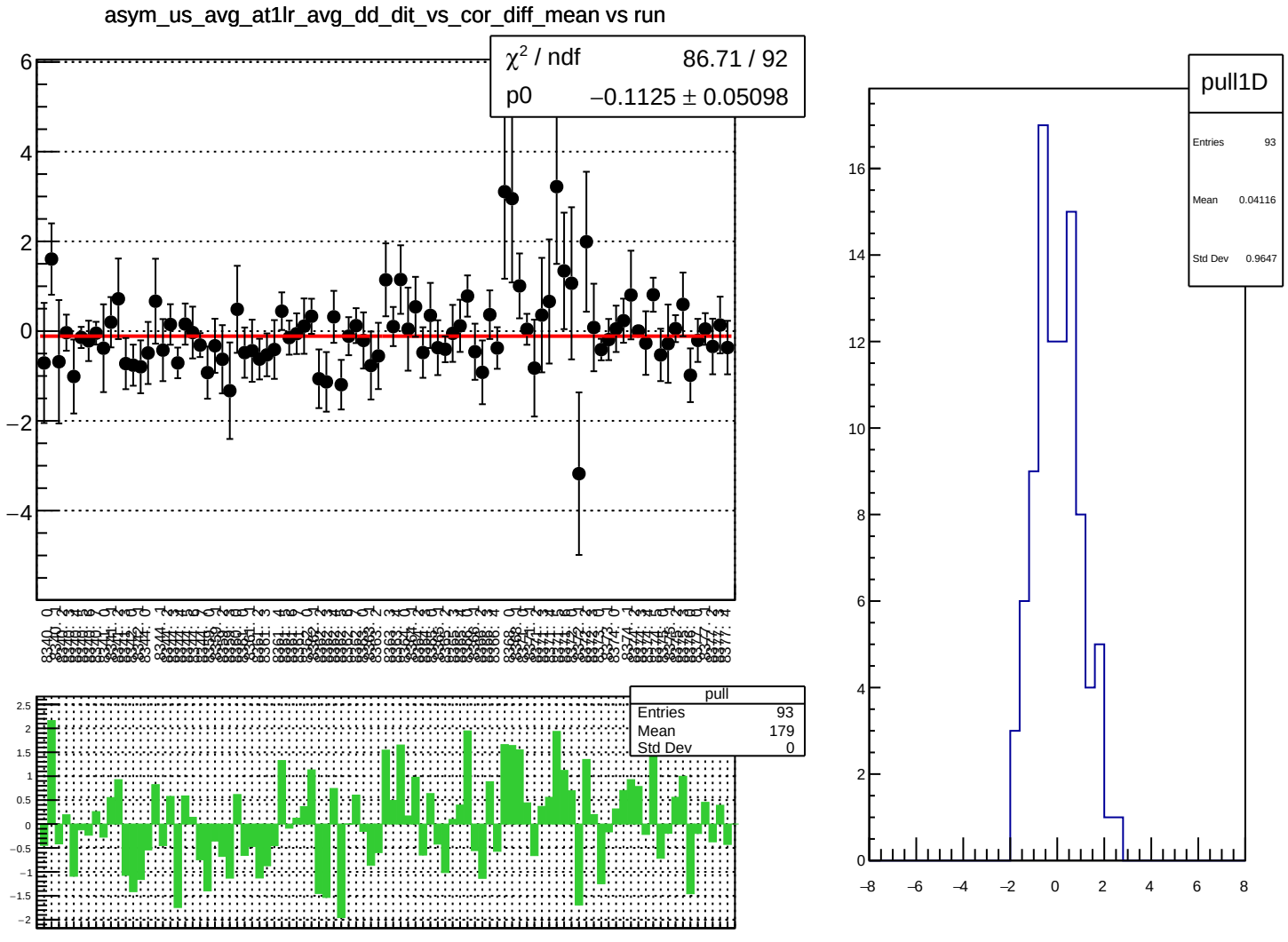

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 85.83 / 92
p0 −1231 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −5.45e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

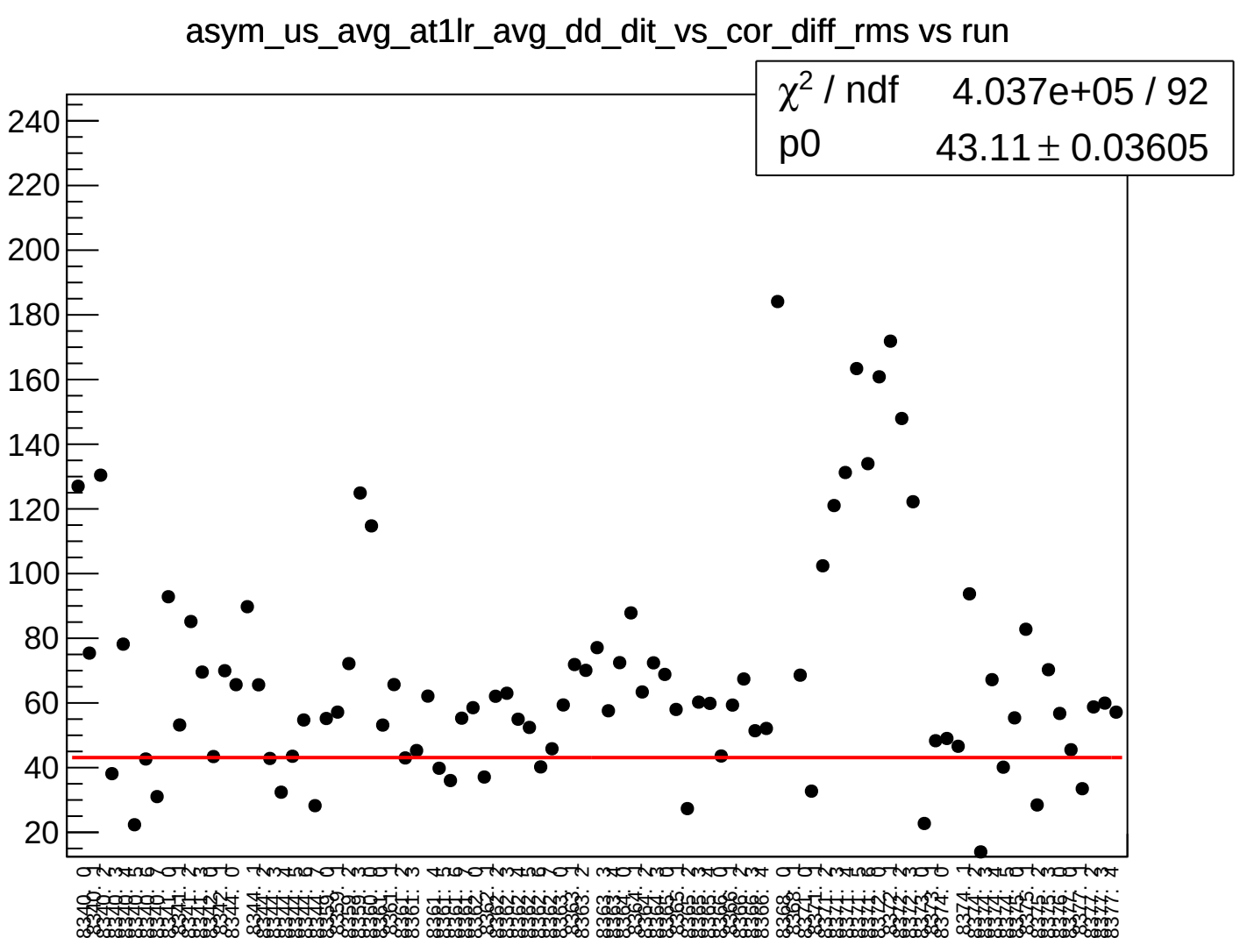

pull1D
Entries 93
Mean −4.568e−05
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

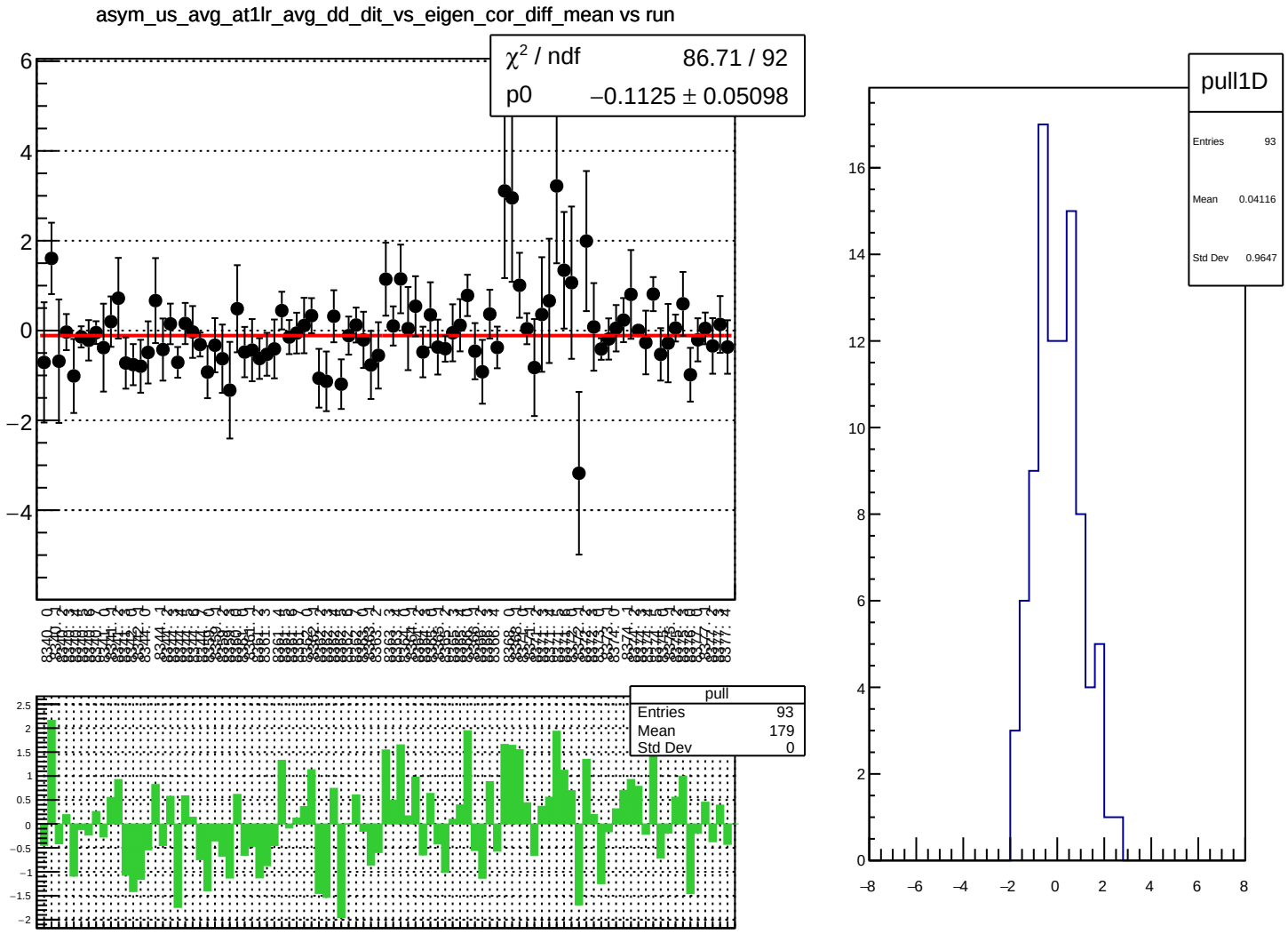

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 654.2 / 92
p0 1802 ± 1.331
1880
1860
1840
1820
1800
1780
1760
1740
1720

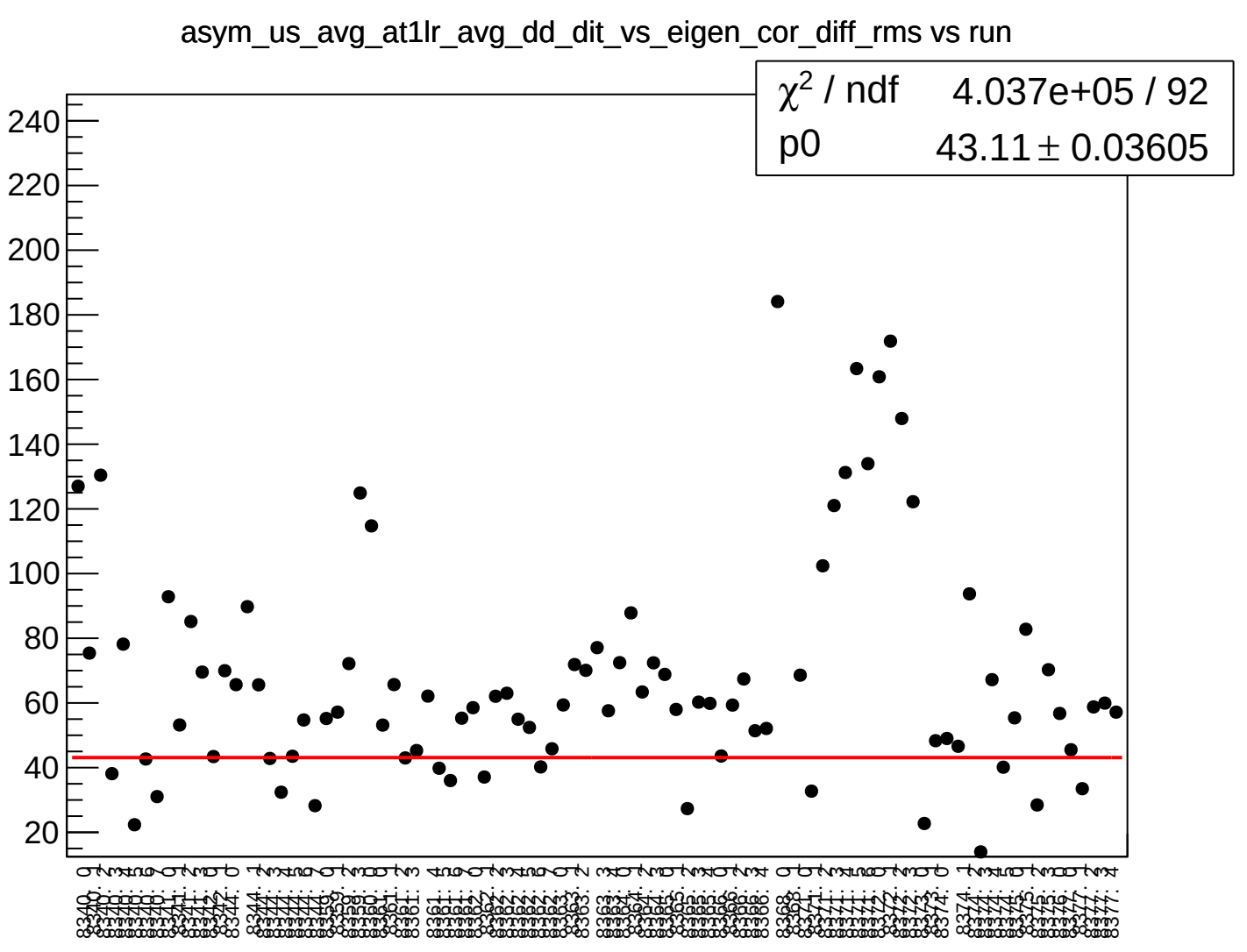

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.79 / 92
p0 1.247e−13 ± 5.545e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 52.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.02619
Std Dev 0.9432
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

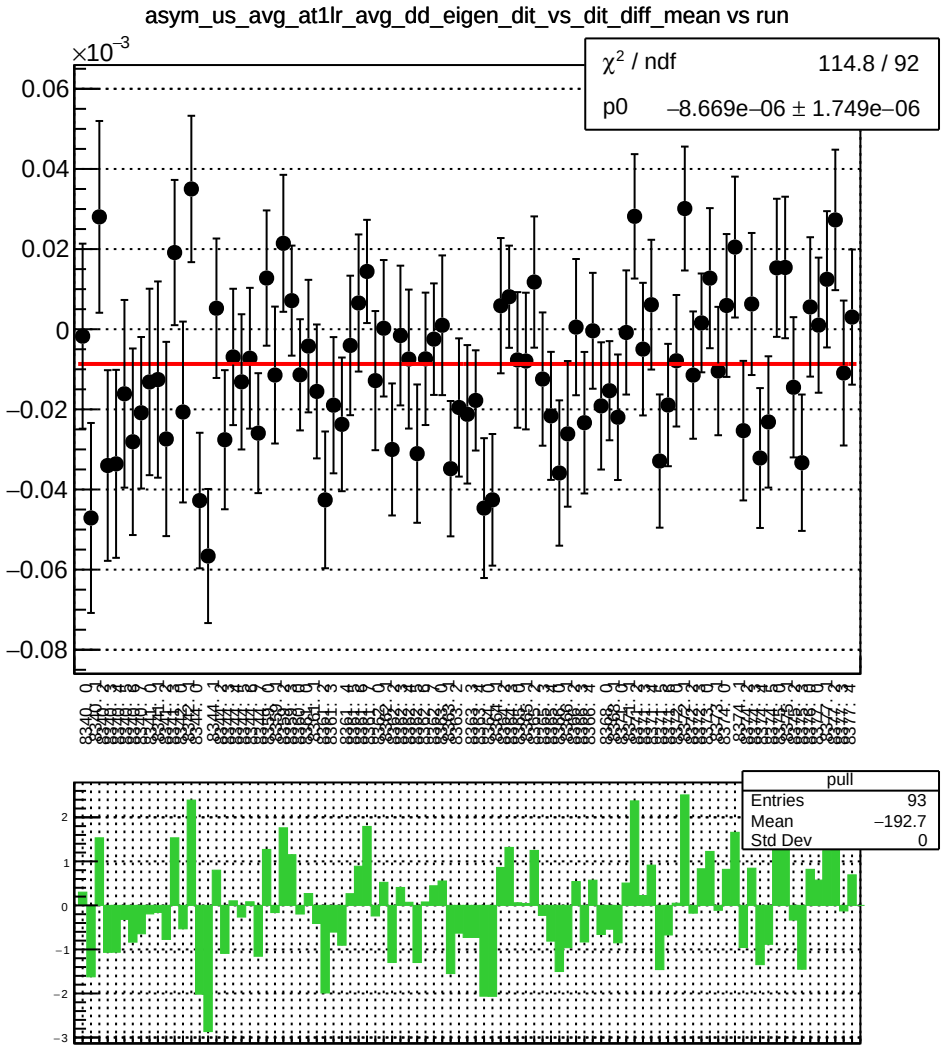

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 92
p0 3.499e−11 ± 3.921e−14
1
0.8
0.6
0.4
0.2
0

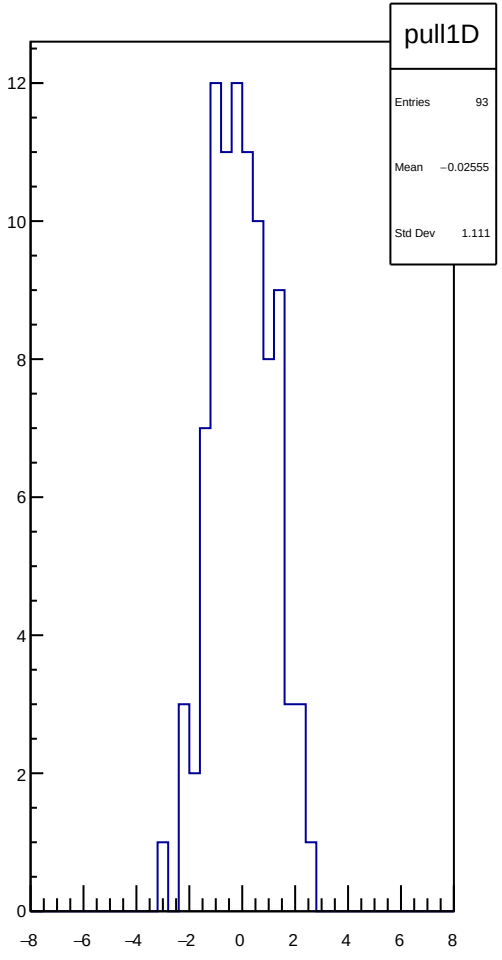

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.1125 ± 0.05098
pull
Entries 93
Mean 179
Std Dev 0
pull1D
Entries 93
Mean 0.04116
Std Dev 0.9647

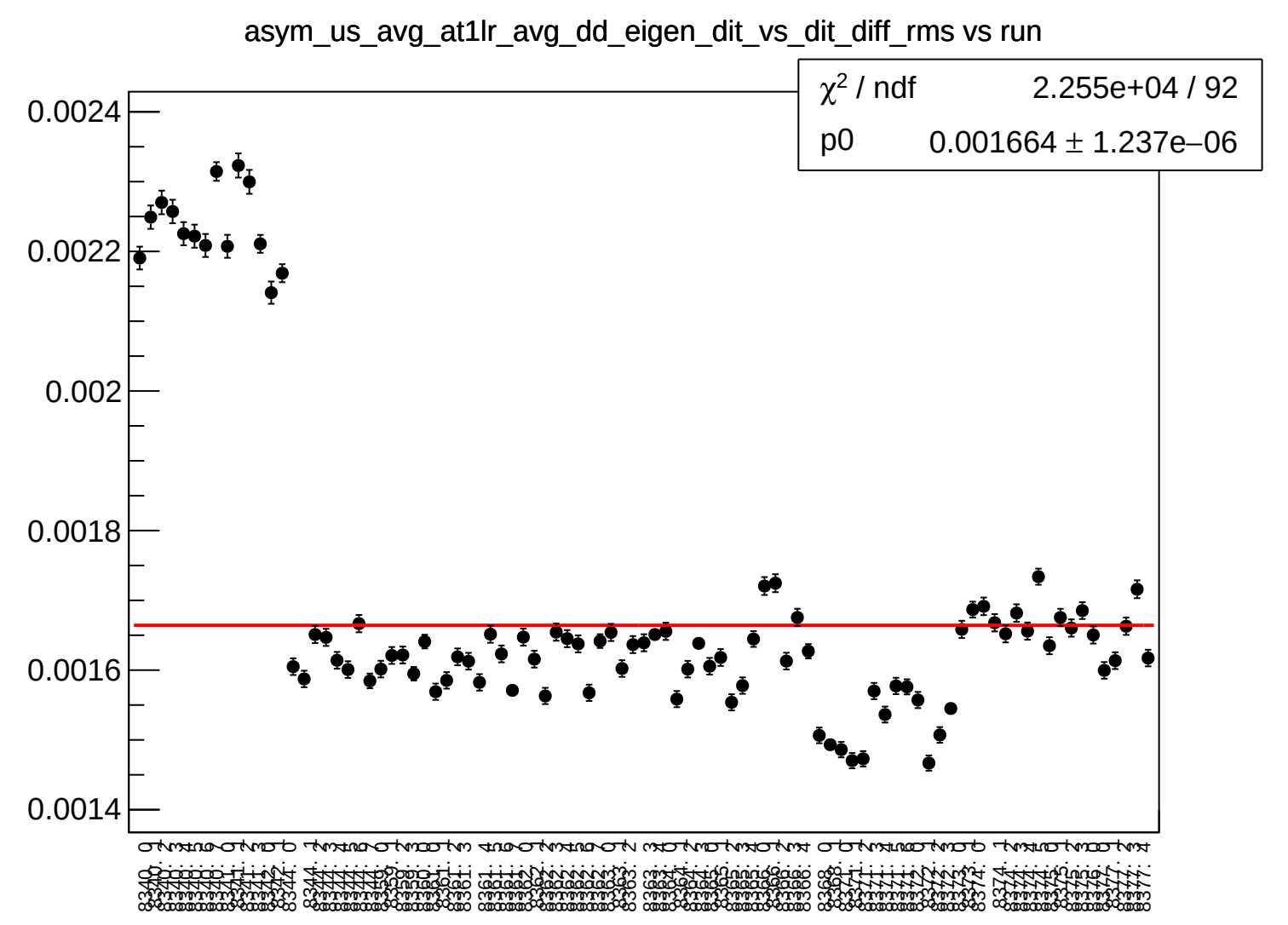

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.037e+05 / 92
p0 43.11 ± 0.03605
240
220
200
180
160
140
120
100
80
60
40
20

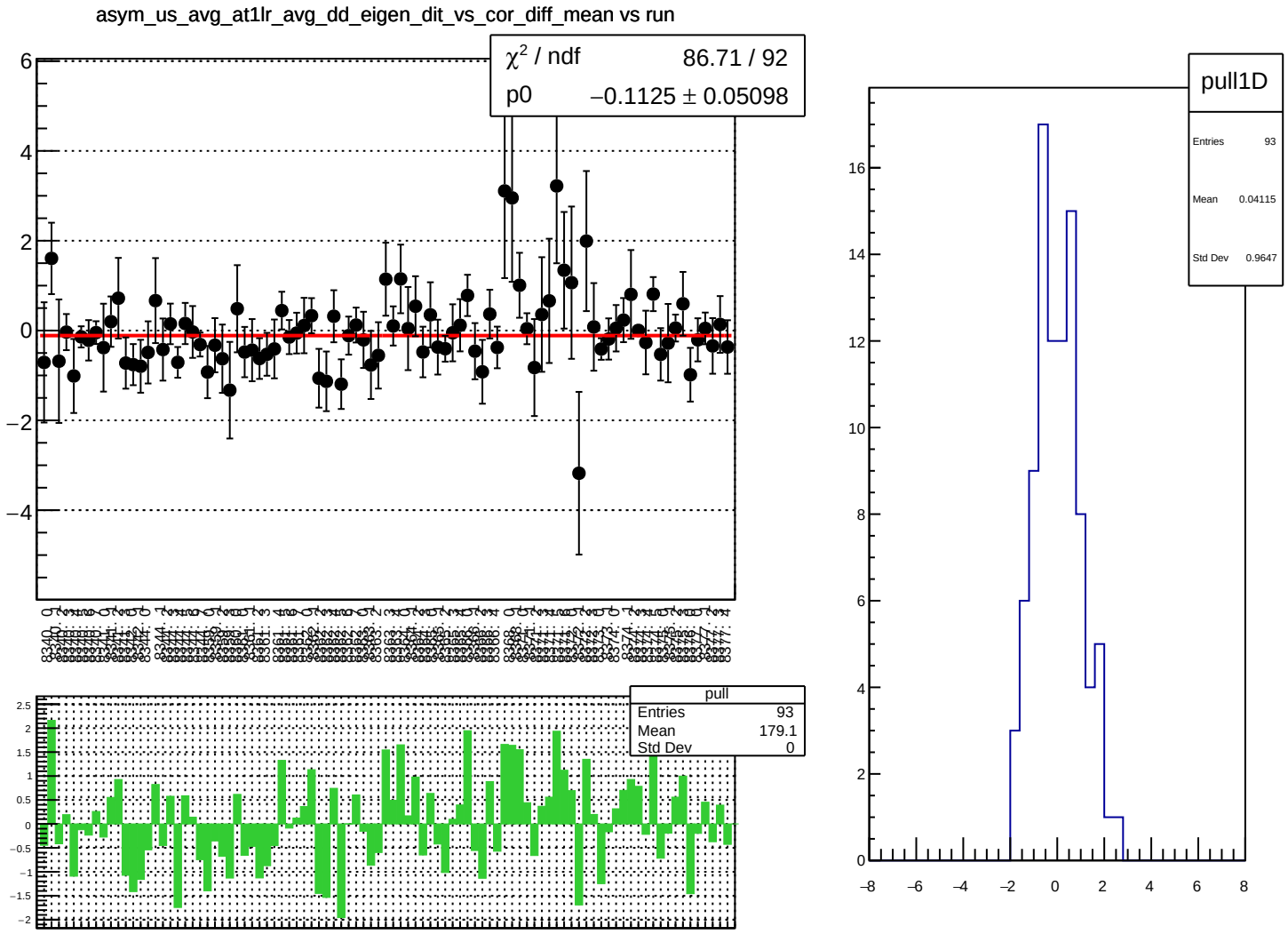

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.1125 ± 0.05098
pull
Entries 93
Mean 179
Std Dev 0
pull1D
Entries 93
Mean 0.04116
Std Dev 0.9647

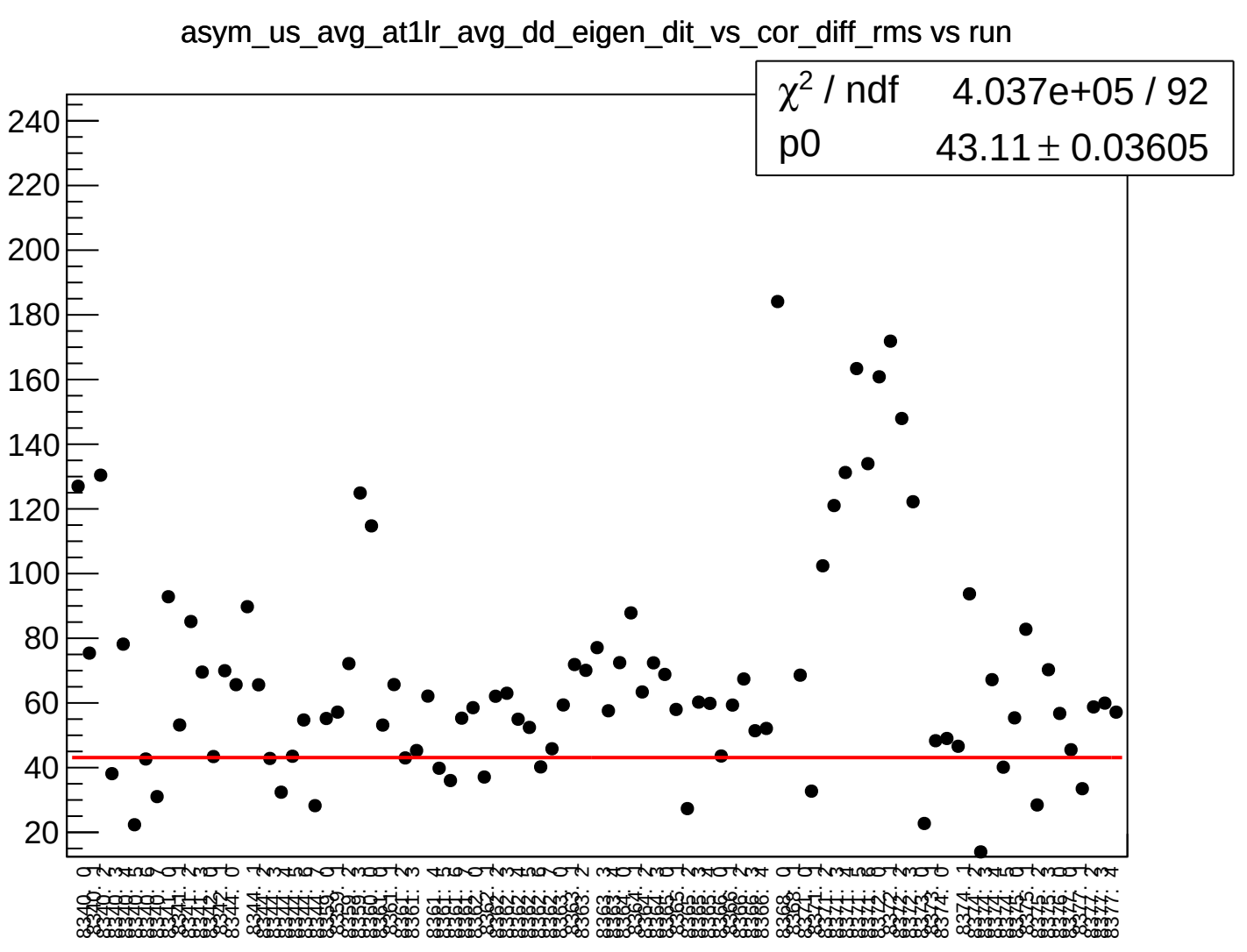

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.037e+05 / 92
p0 43.11 ± 0.03605
240
220
200
180
160
140
120
100
80
60
40
20

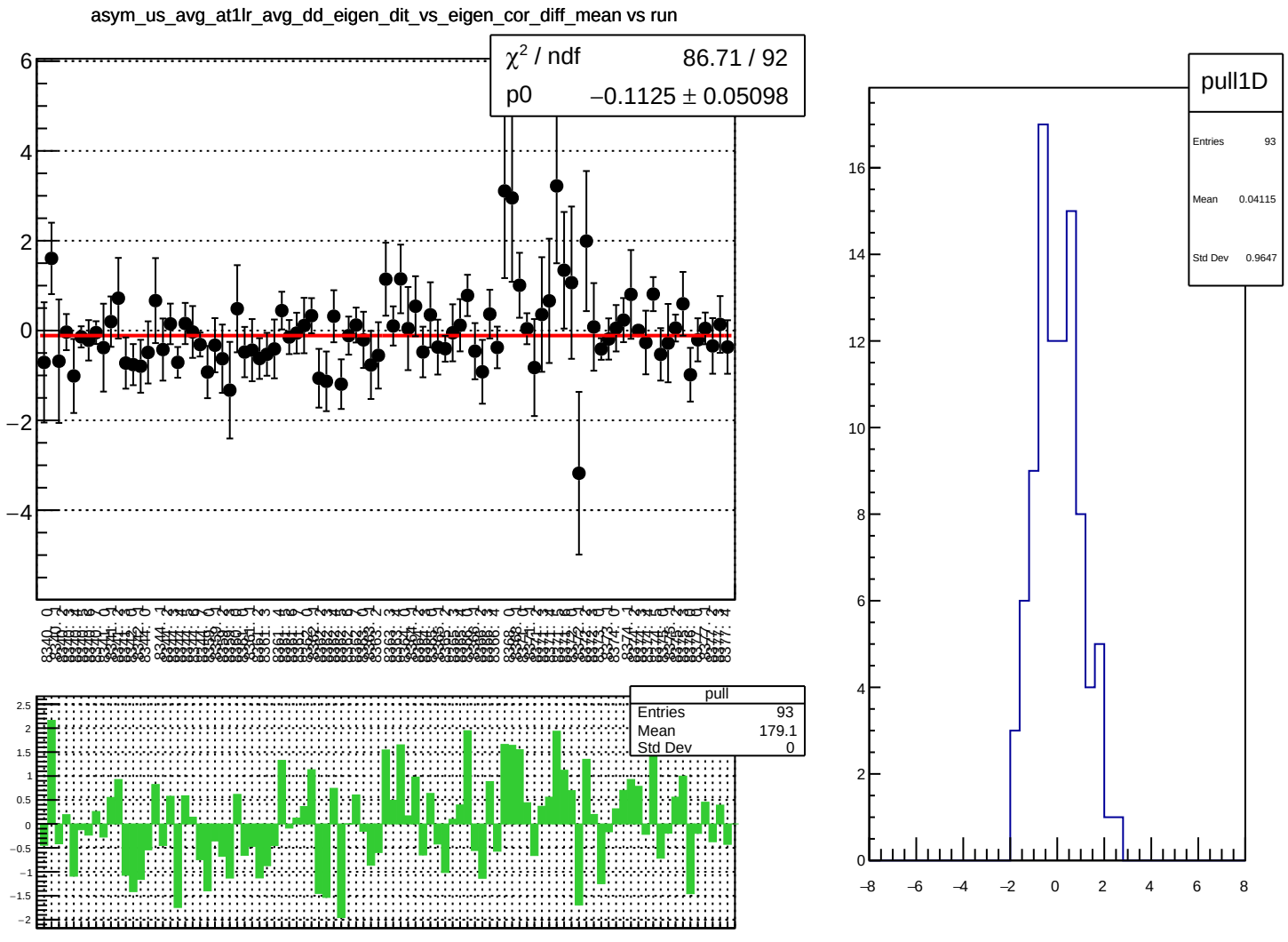

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.8 / 92
p0 −8.669e−06 ± 1.749e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean −192.7
Std Dev 0
2
1
0
−1
−2
−3

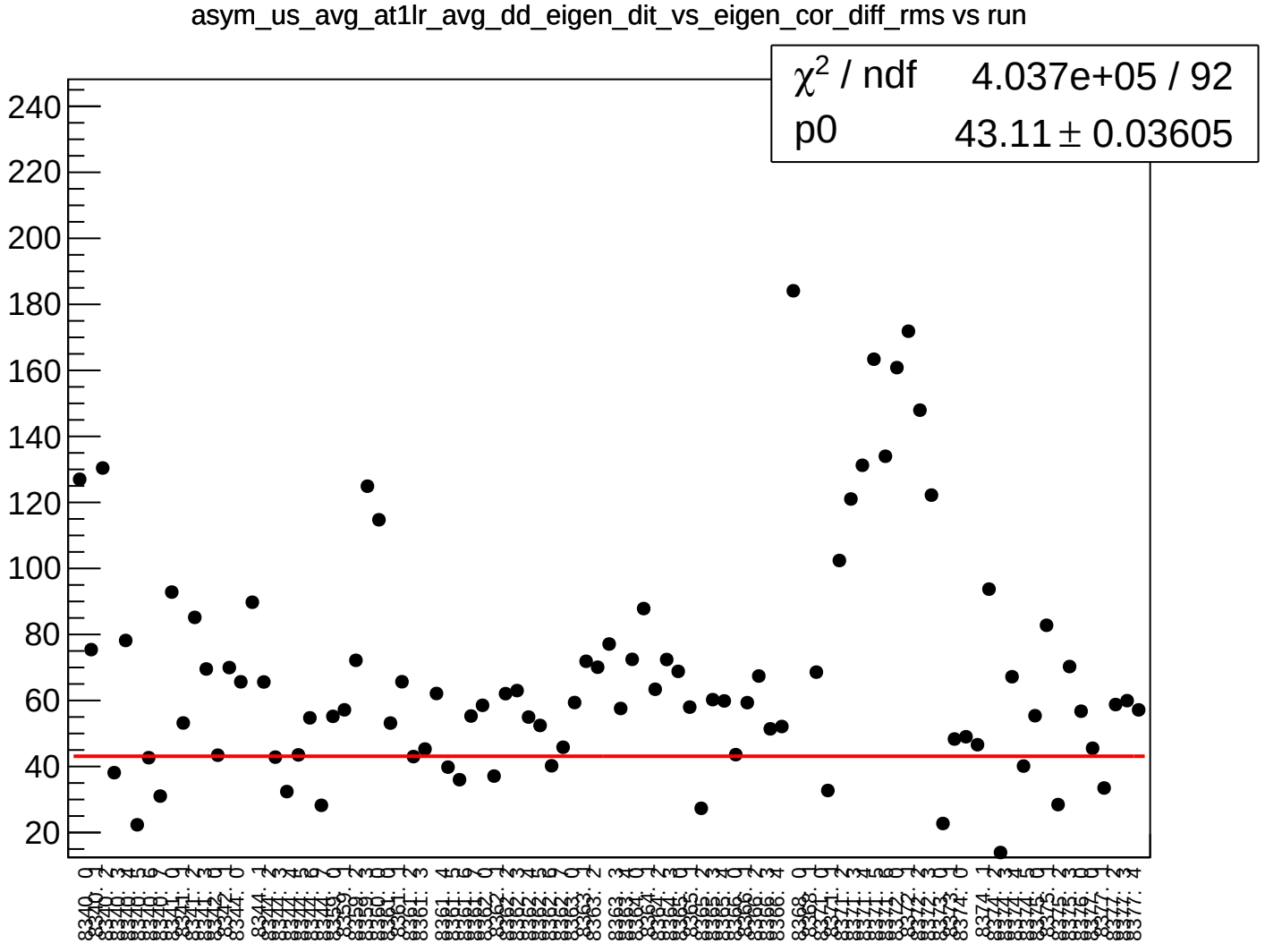

pull1D
Entries 93
Mean −0.02555
Std Dev 1.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

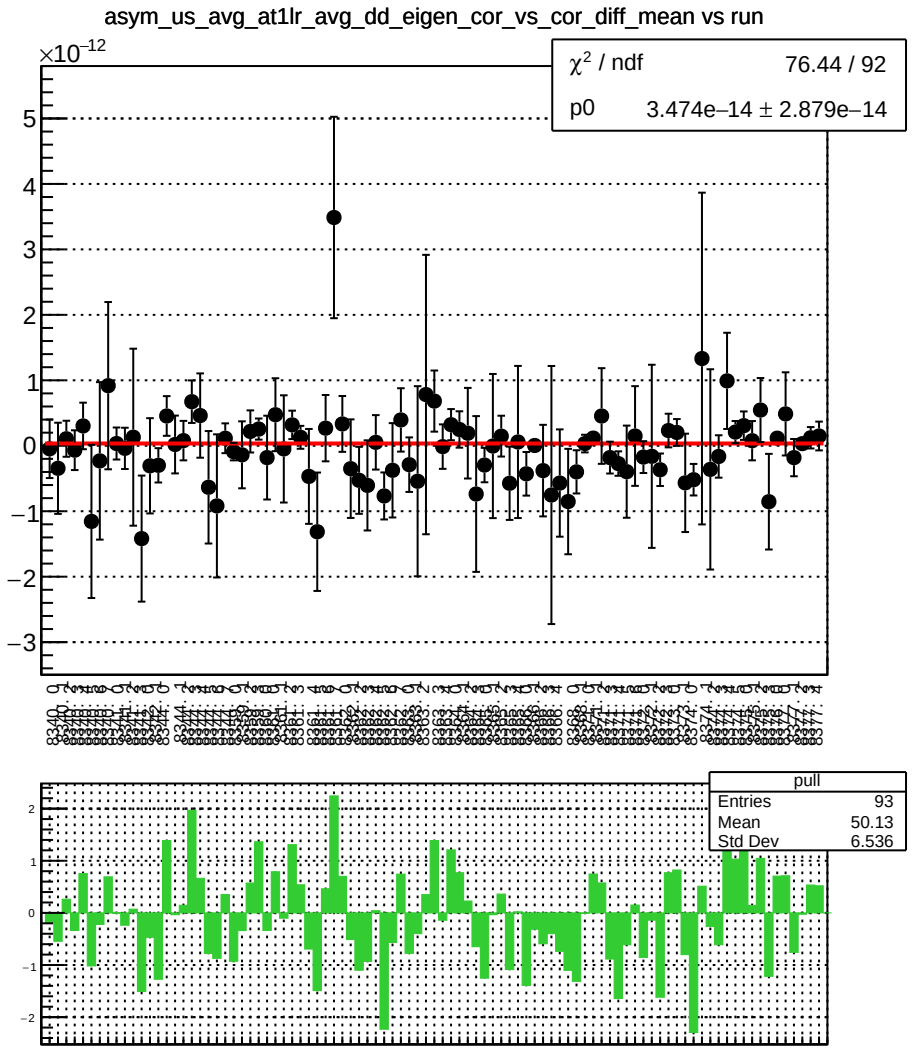

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.255e+04 / 92
p0 0.001664 ± 1.237e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

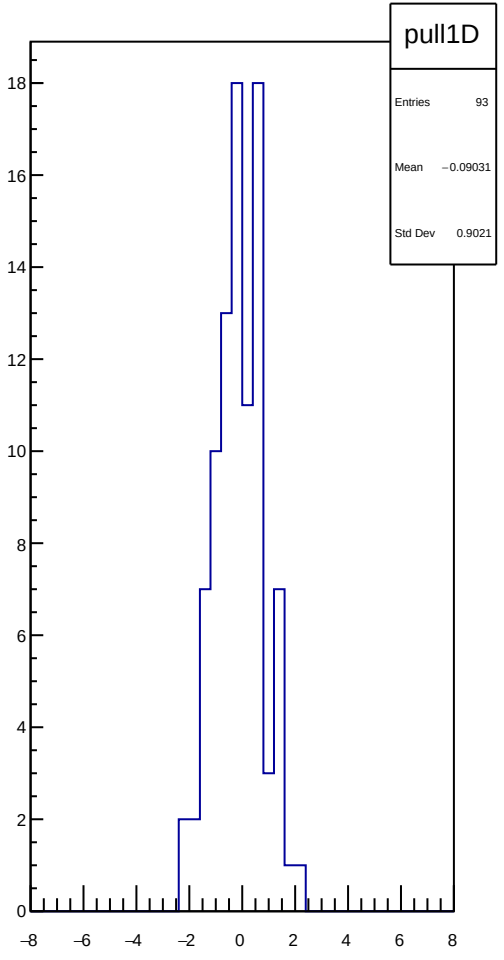

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.1125 ± 0.05098
pull
Entries 93
Mean 179.1
Std Dev 0
pull1D
Entries 93
Mean 0.04115
Std Dev 0.9647

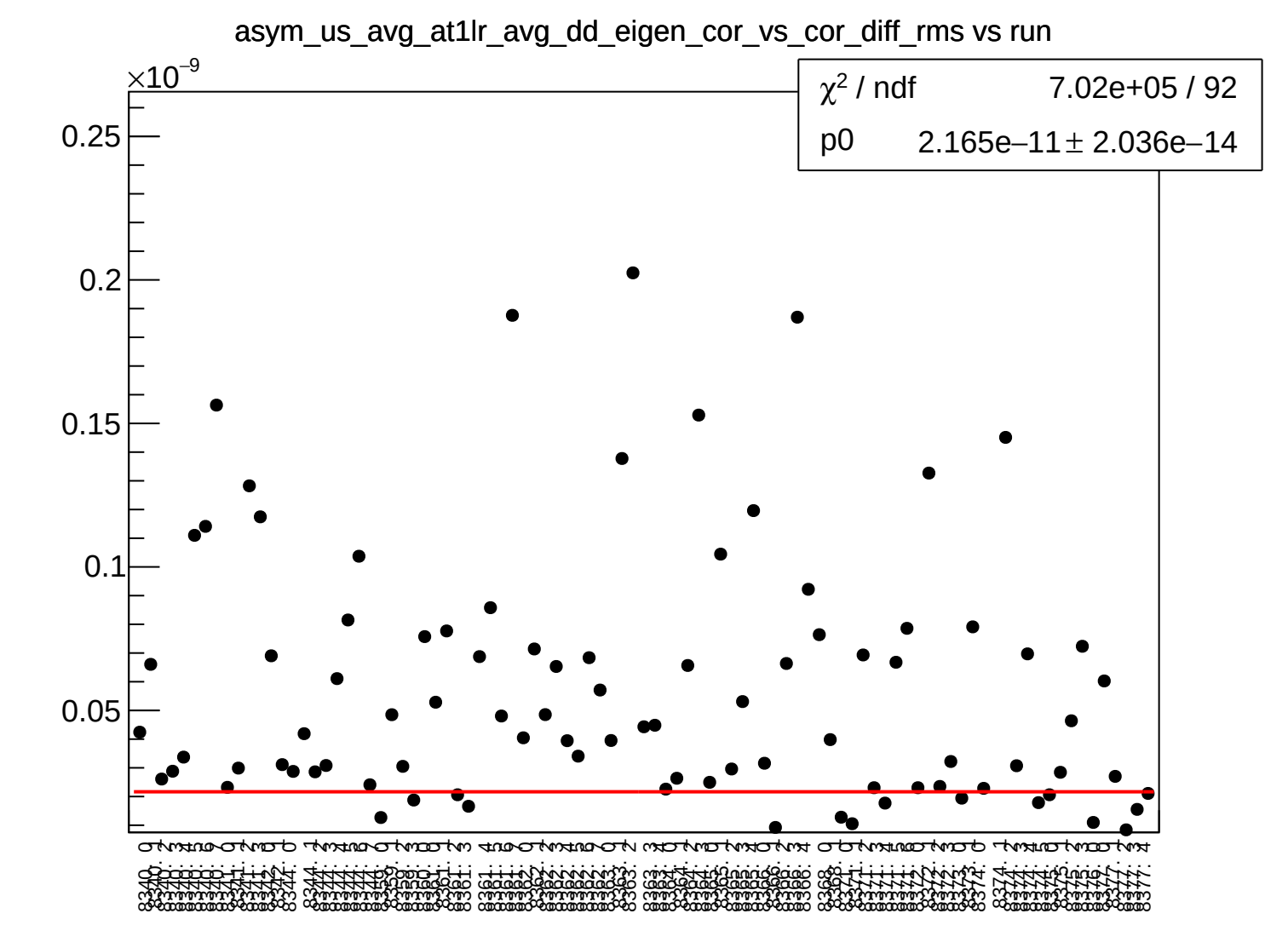

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.037e+05 / 92
p0 43.11 ± 0.03605
240
220
200
180
160
140
120
100
80
60
40
20

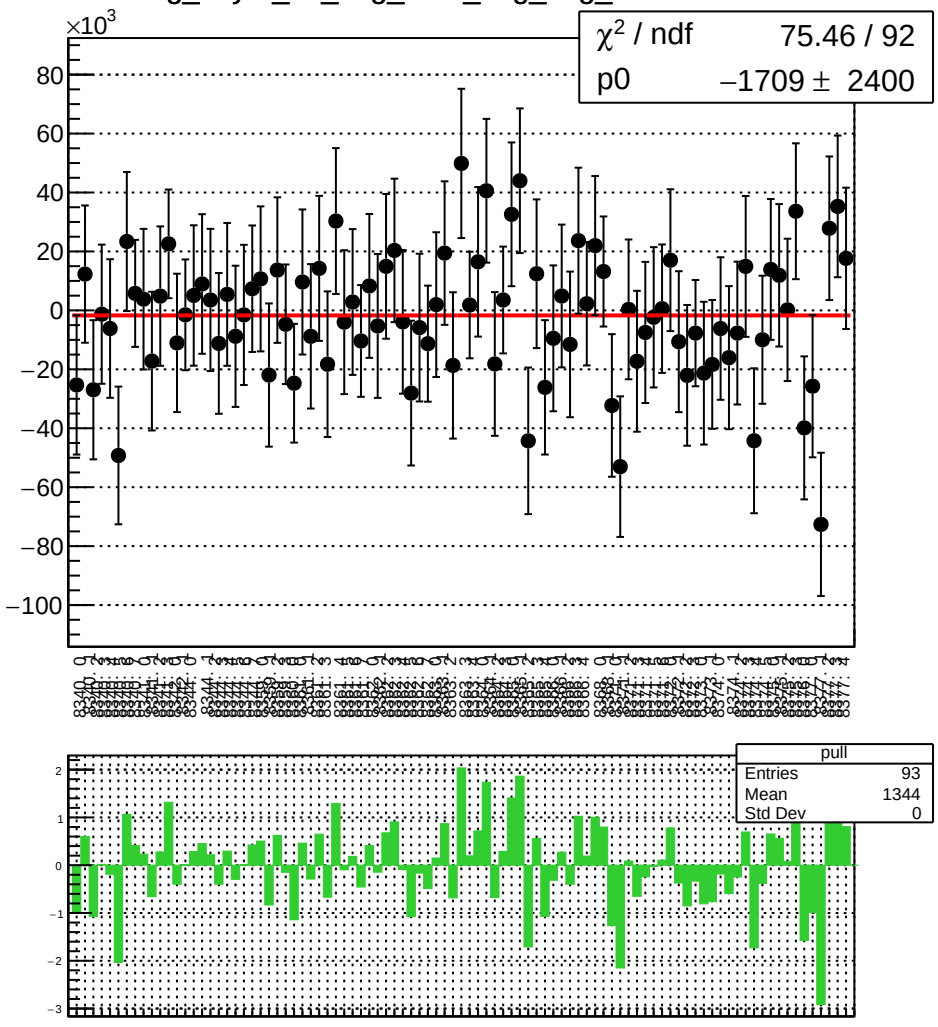

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.71 / 92
p0 −0.1125 ± 0.05098
pull
Entries 93
Mean 179.1
Std Dev 0
pull1D
Entries 93
Mean 0.04115
Std Dev 0.9647

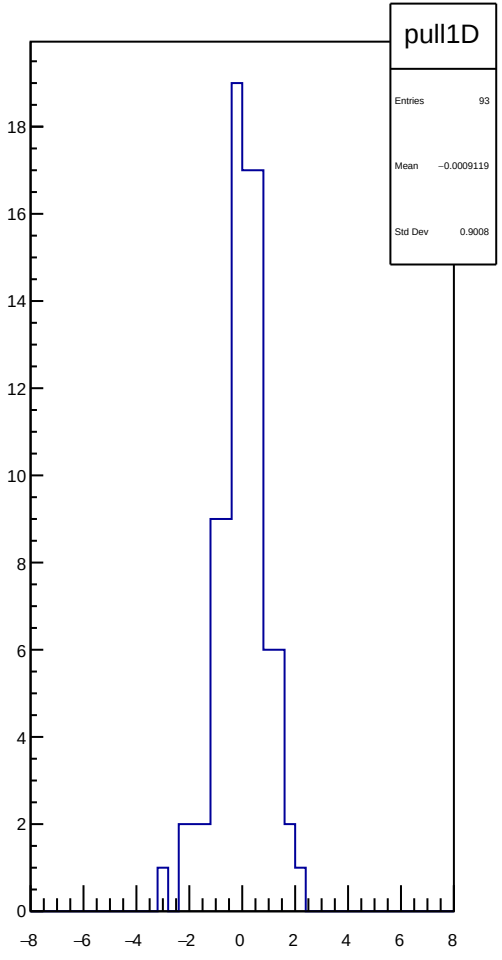

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.037e+05 / 92
p0 43.11 ± 0.03605
240
220
200
180
160
140
120
100
80
60
40
20

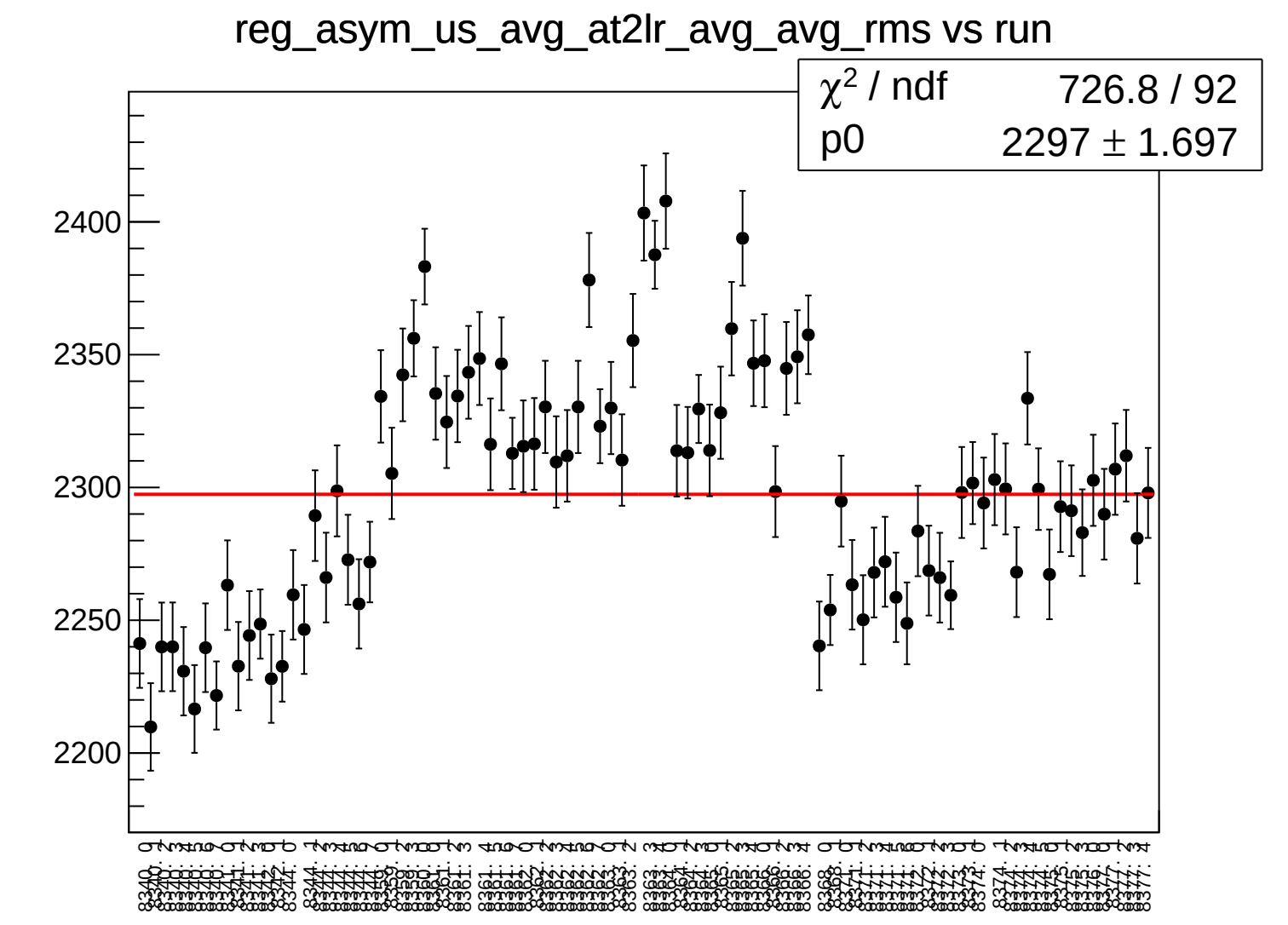

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.44 / 92
p0 3.474e−14 ± 2.879e−14
pull
Entries 93
Mean 50.13
Std Dev 6.536

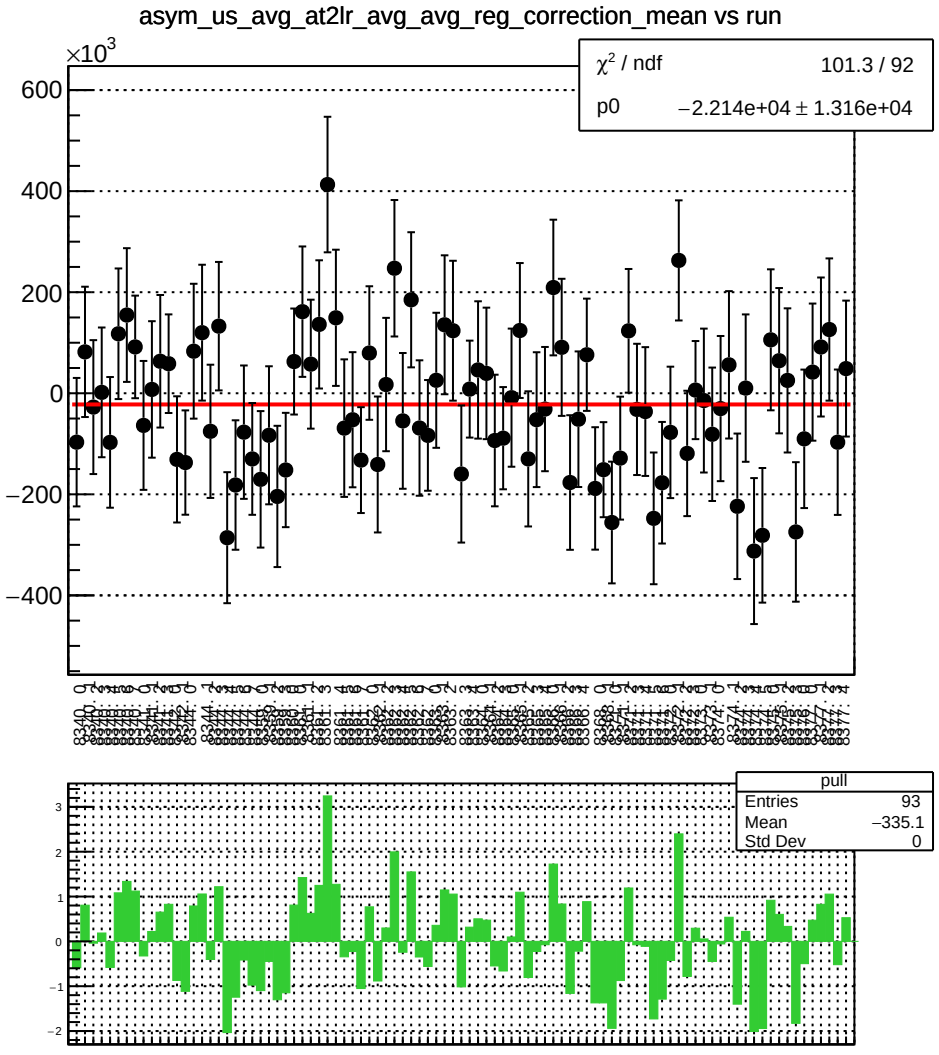

pull1D
Entries 93
Mean −0.09031
Std Dev 0.9021

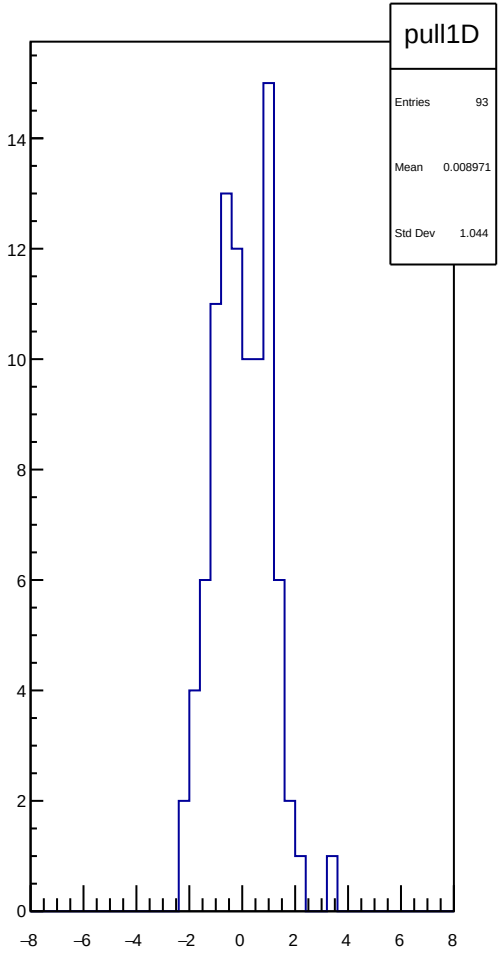

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.02e+05 / 92
p0 2.165e−11 ± 2.036e−14
0.25
0.2
0.15
0.1
0.05

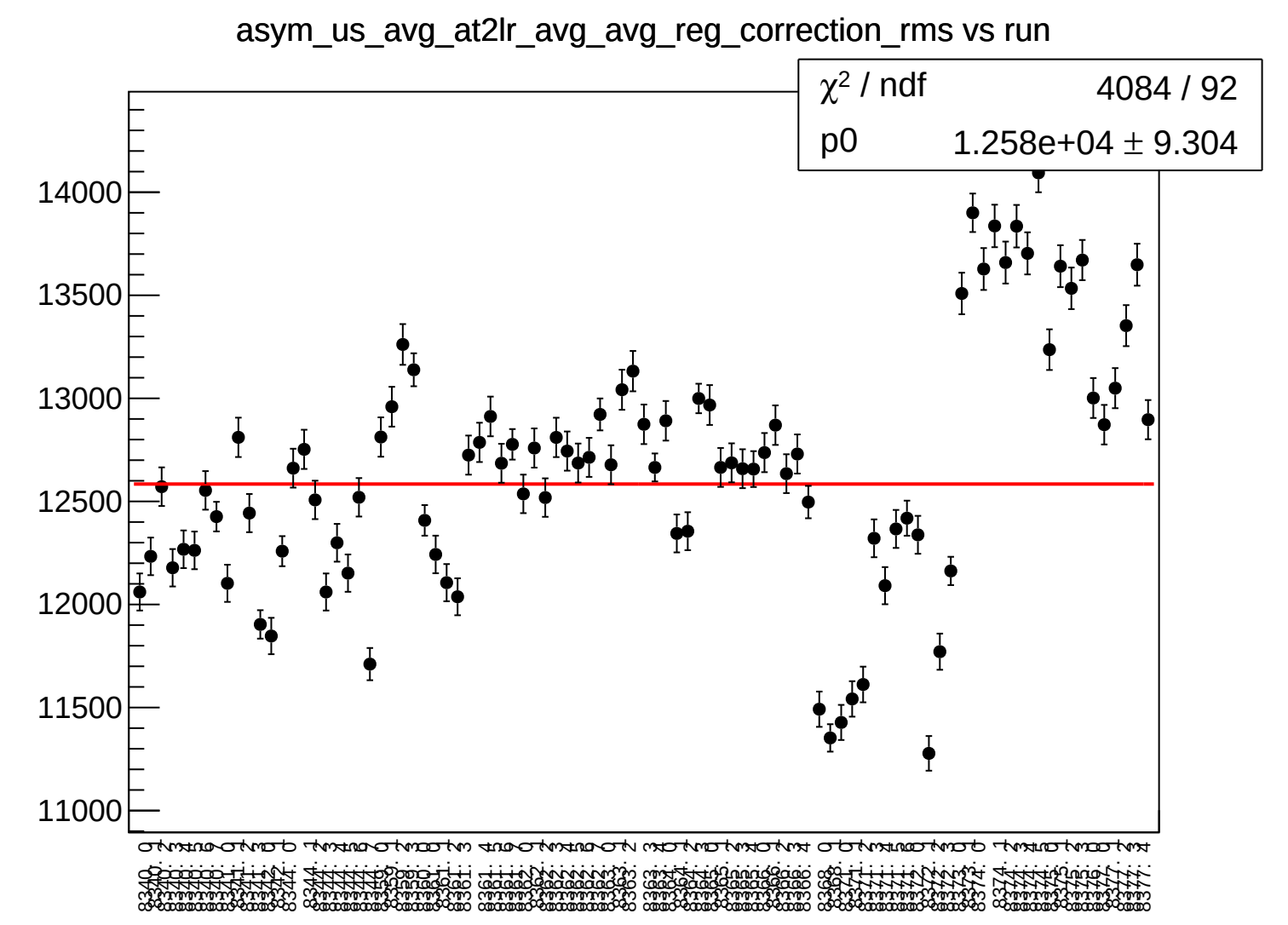

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 75.46 / 92
p0 −1709 ± 2400
pull
Entries 93
Mean 1344
Std Dev 0

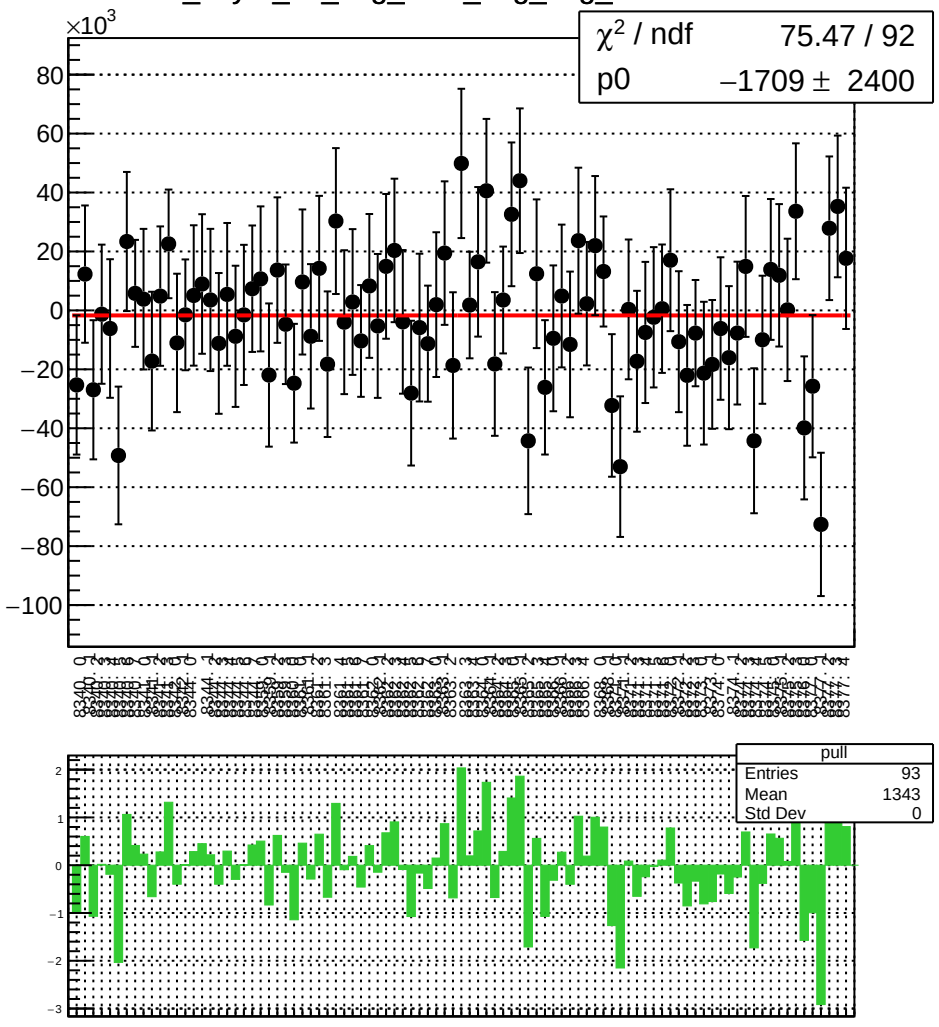

pull1D
Entries 93
Mean −0.0009119
Std Dev 0.9008

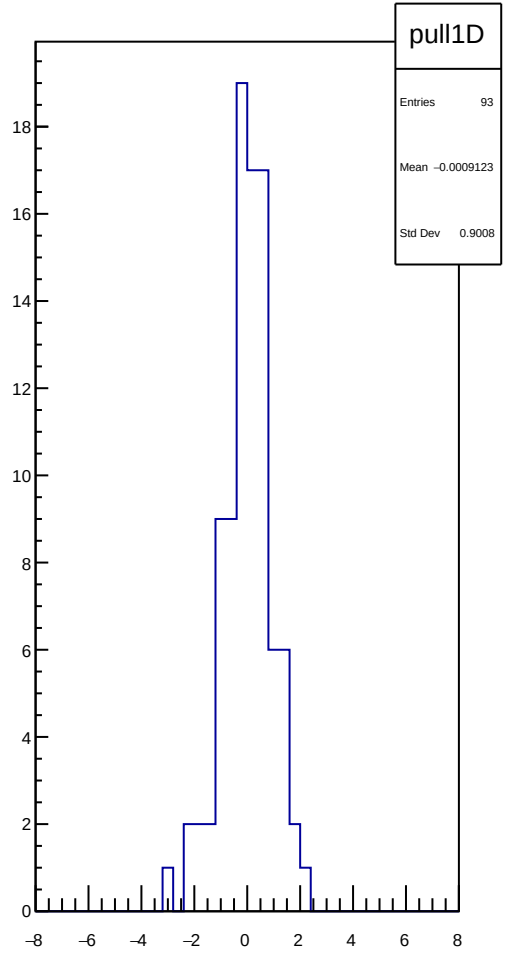

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 726.8 / 92
p0 2297 ± 1.697
2400
2350
2300
2250
2200

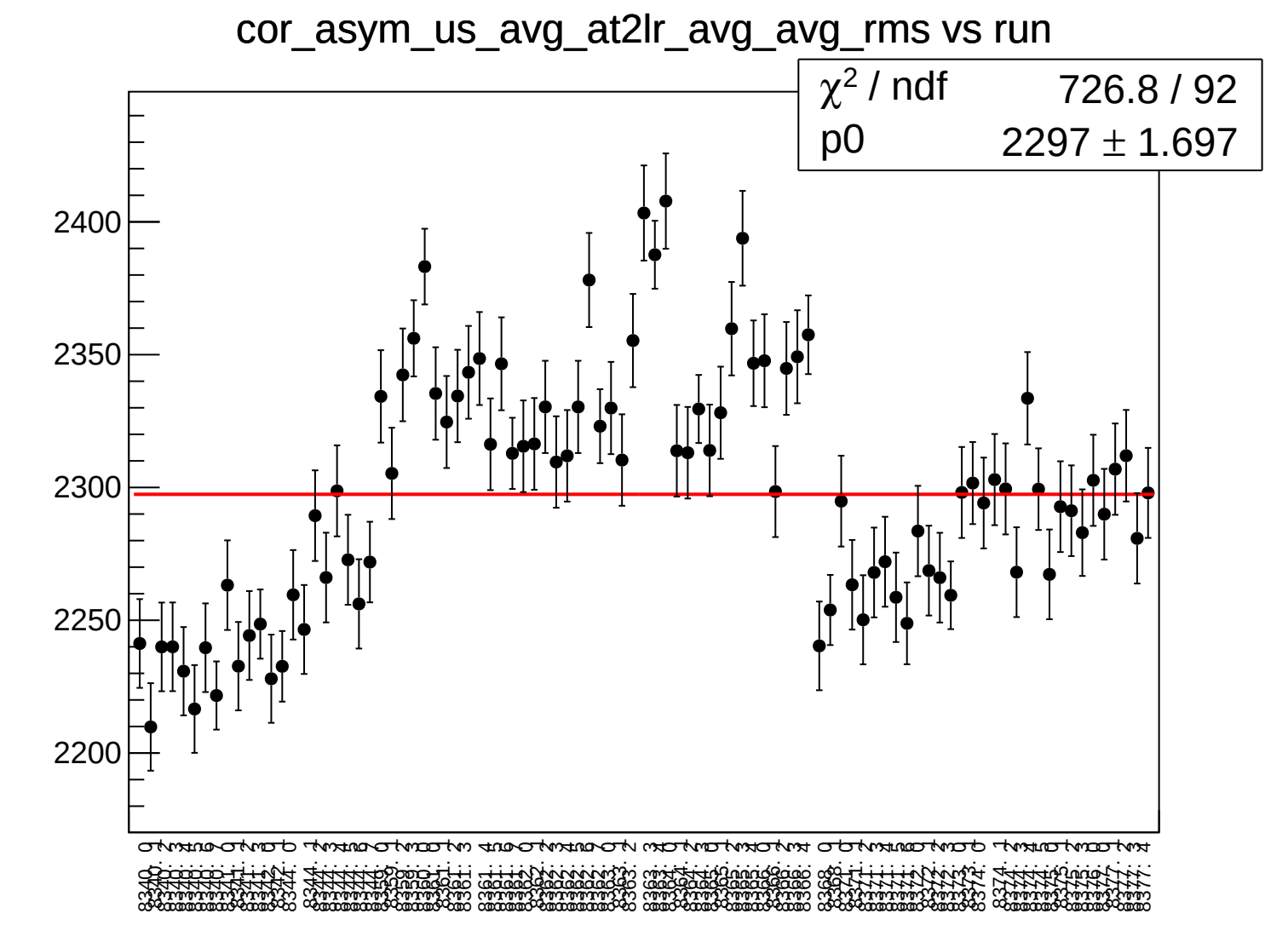

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 101.3 / 92
p0 −2.214e+04 ± 1.316e+04
pull
Entries 93
Mean −335.1
Std Dev 0
3
2
1
0
−1
−2

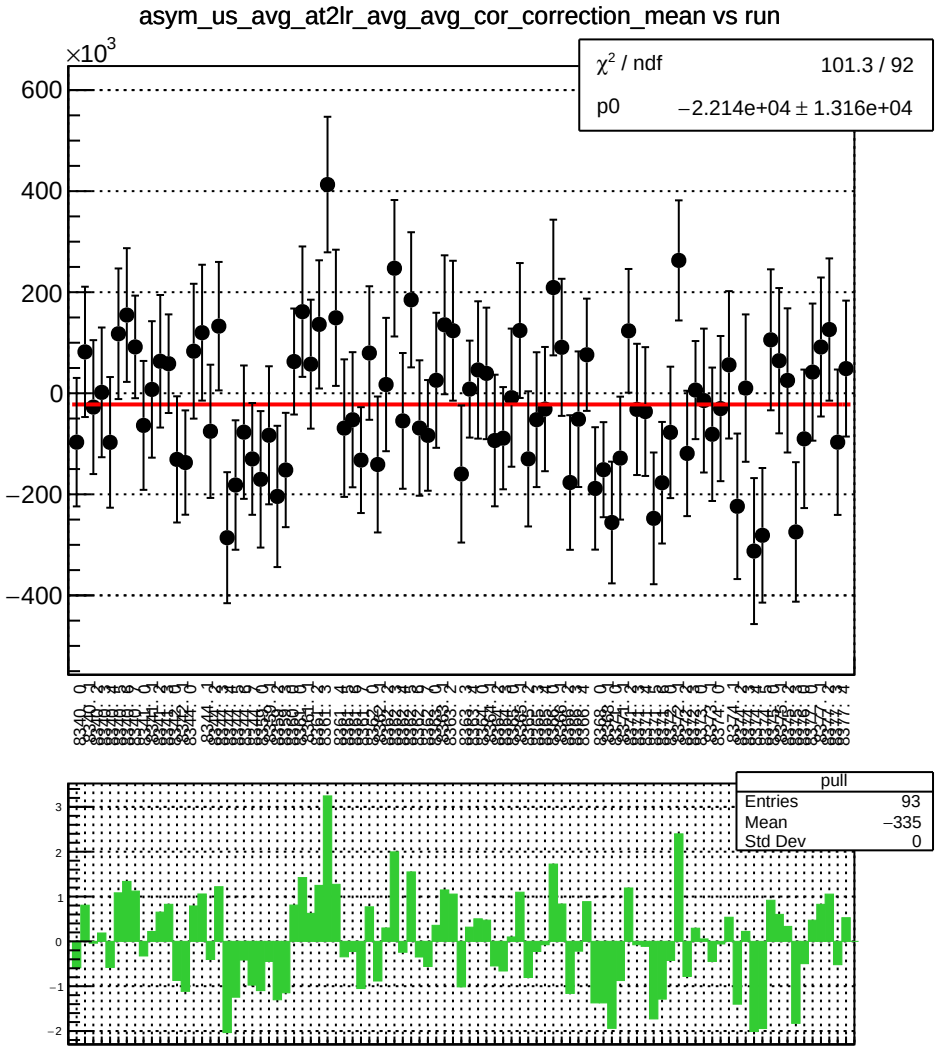

pull1D
Entries 93
Mean 0.008971
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

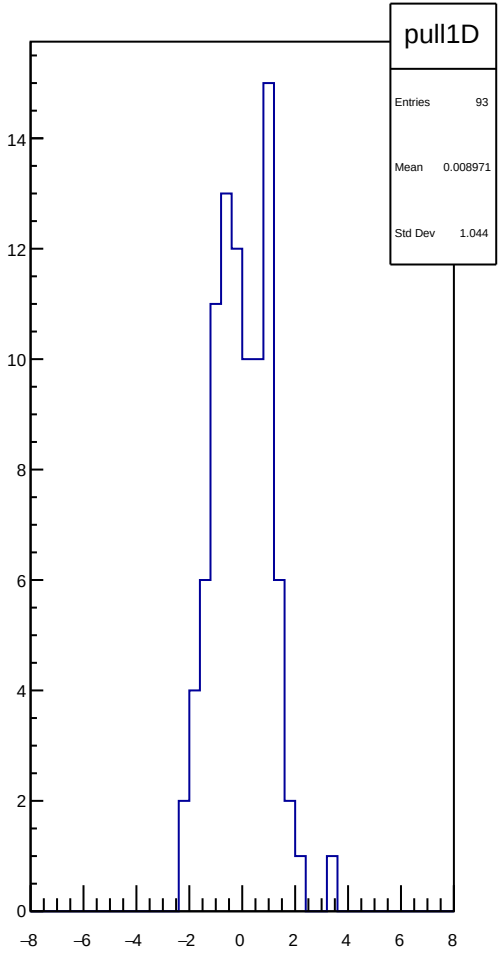

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4084 / 92
p0 1.258e+04 ± 9.304
14000
13500
13000
12500
12000
11500
11000

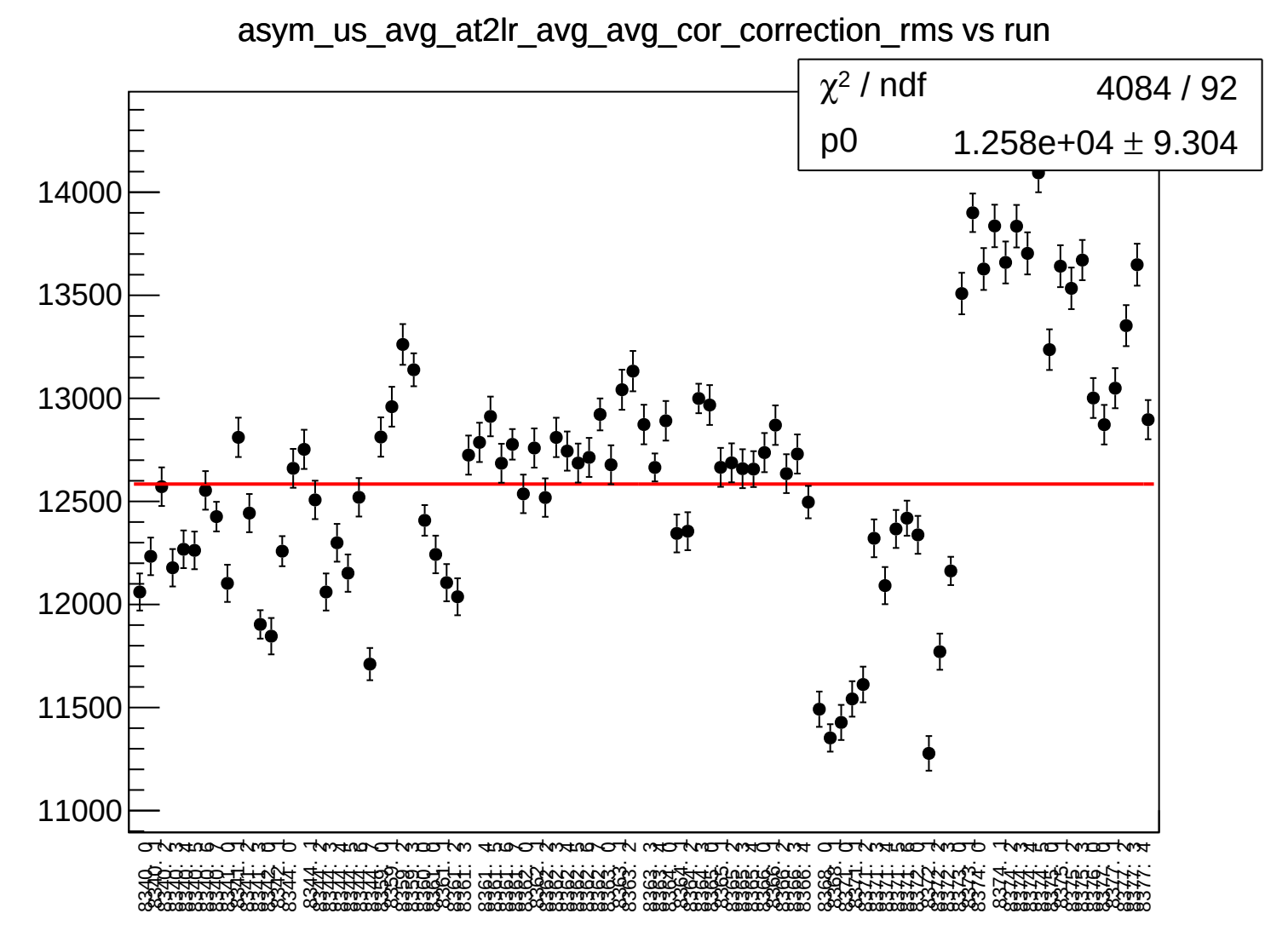

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 75.47 / 92
p0 −1709 ± 2400
pull
Entries 93
Mean 1343
Std Dev 0

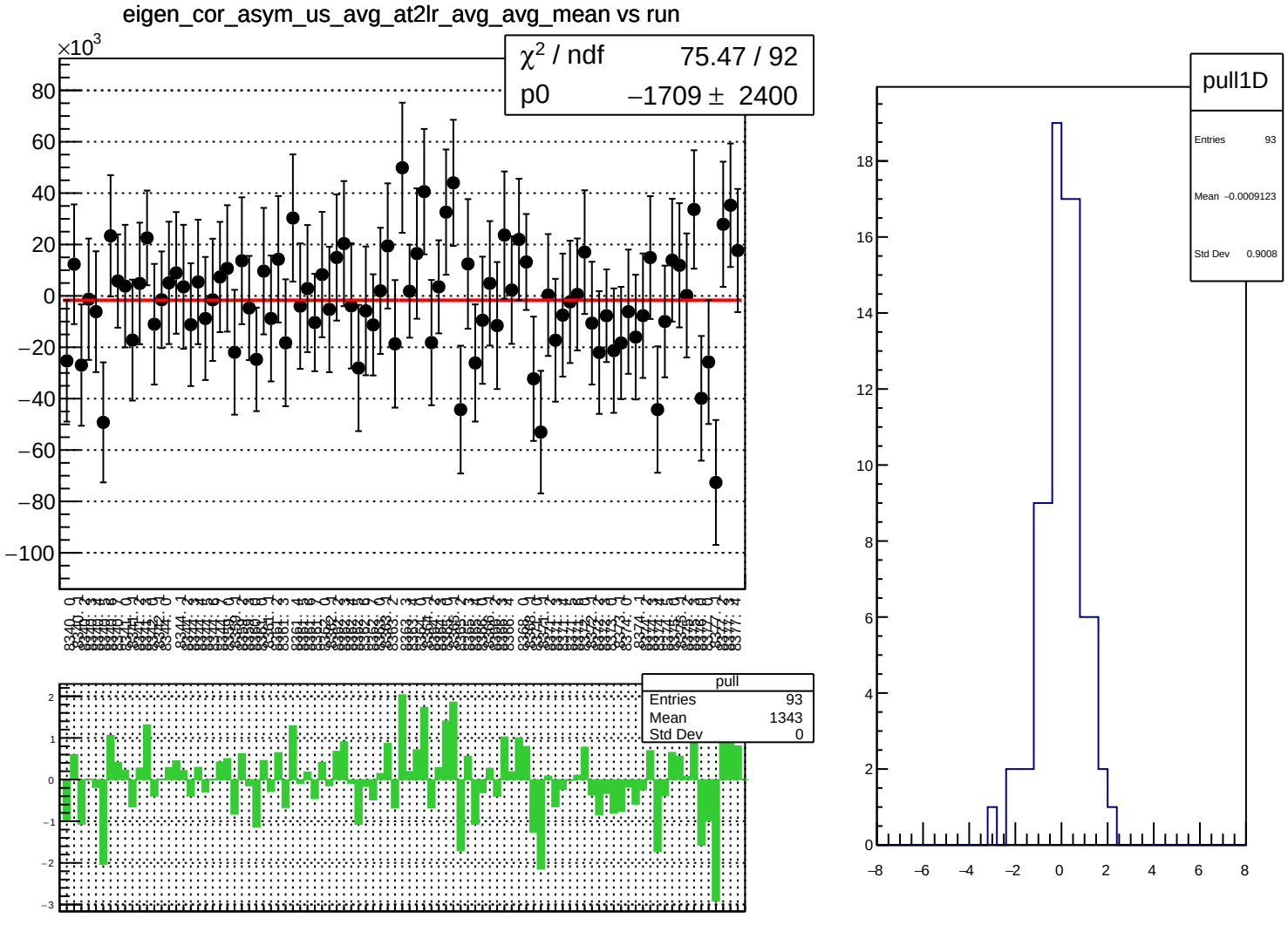

pull1D
Entries 93
Mean −0.0009123
Std Dev 0.9008

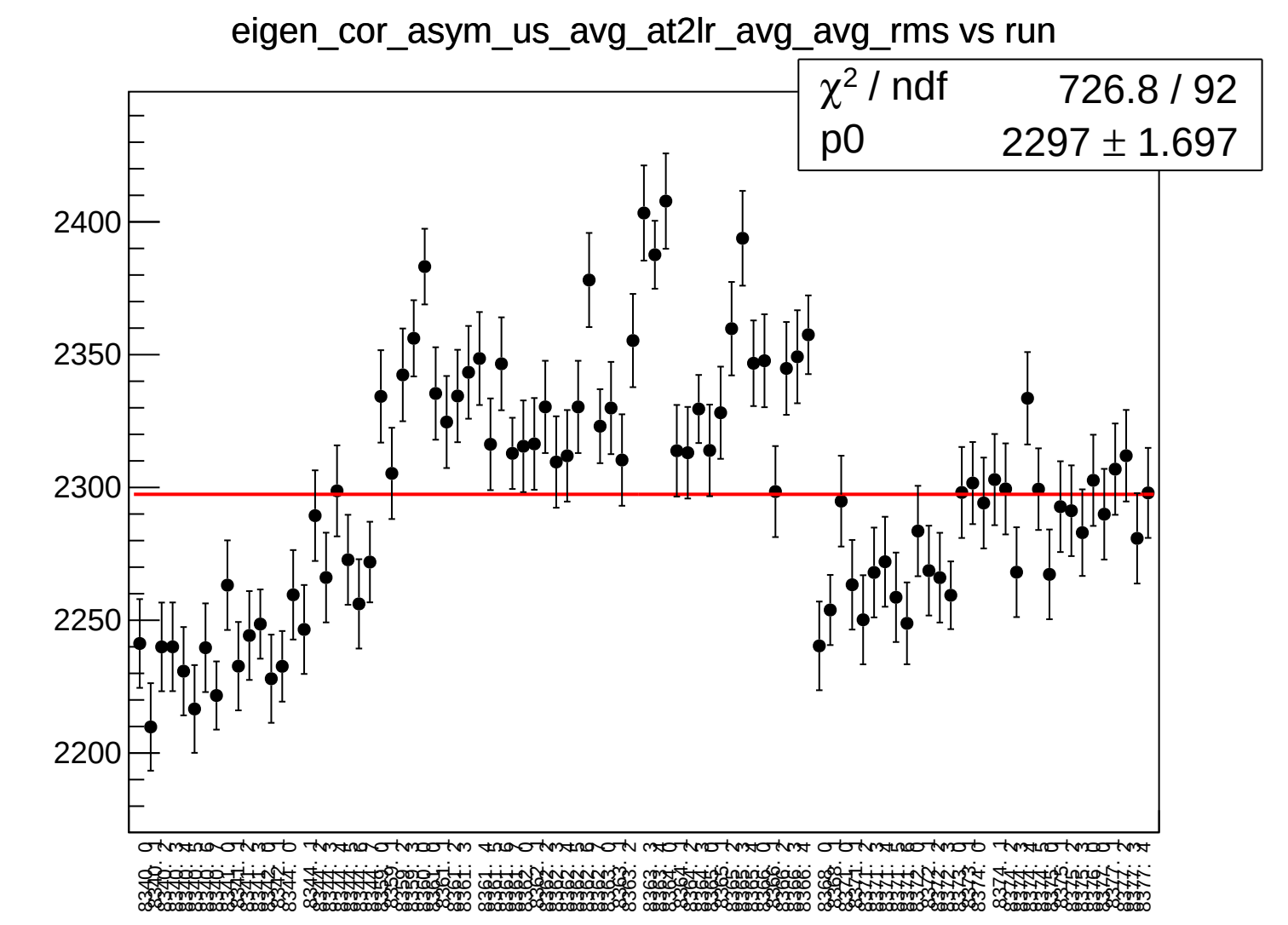

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 726.8 / 92
p0 2297 ± 1.697
2400
2350
2300
2250
2200

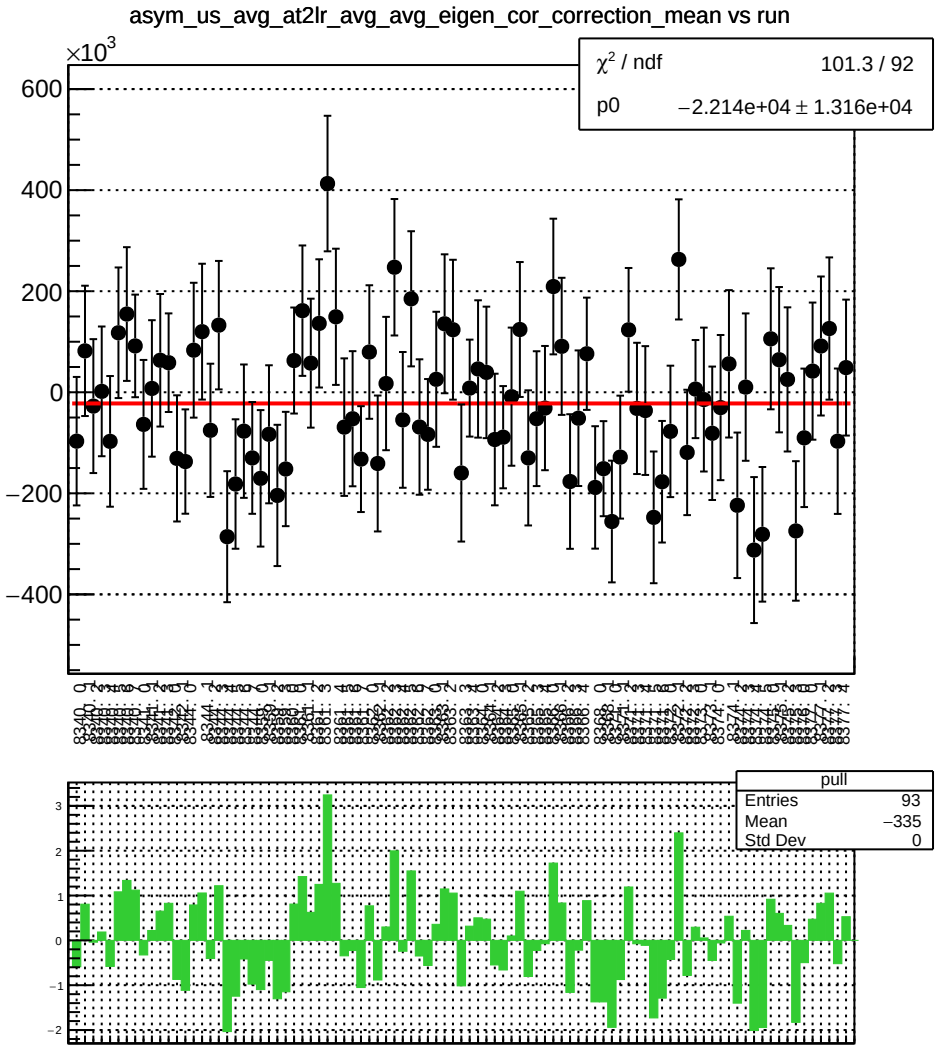

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 101.3 / 92
p0 −2.214e+04 ± 1.316e+04
pull
Entries 93
Mean −335
Std Dev 0
3
2
1
0
−1
−2

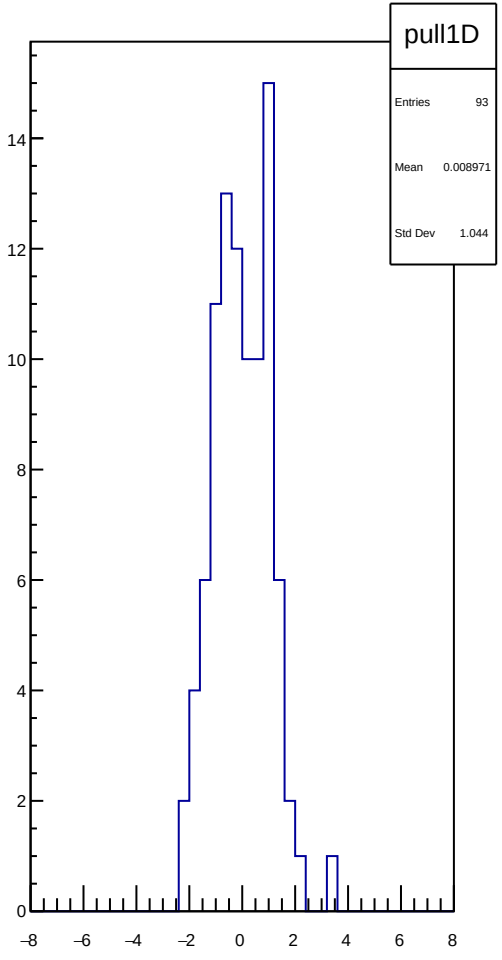

pull1D
Entries 93
Mean 0.008971
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

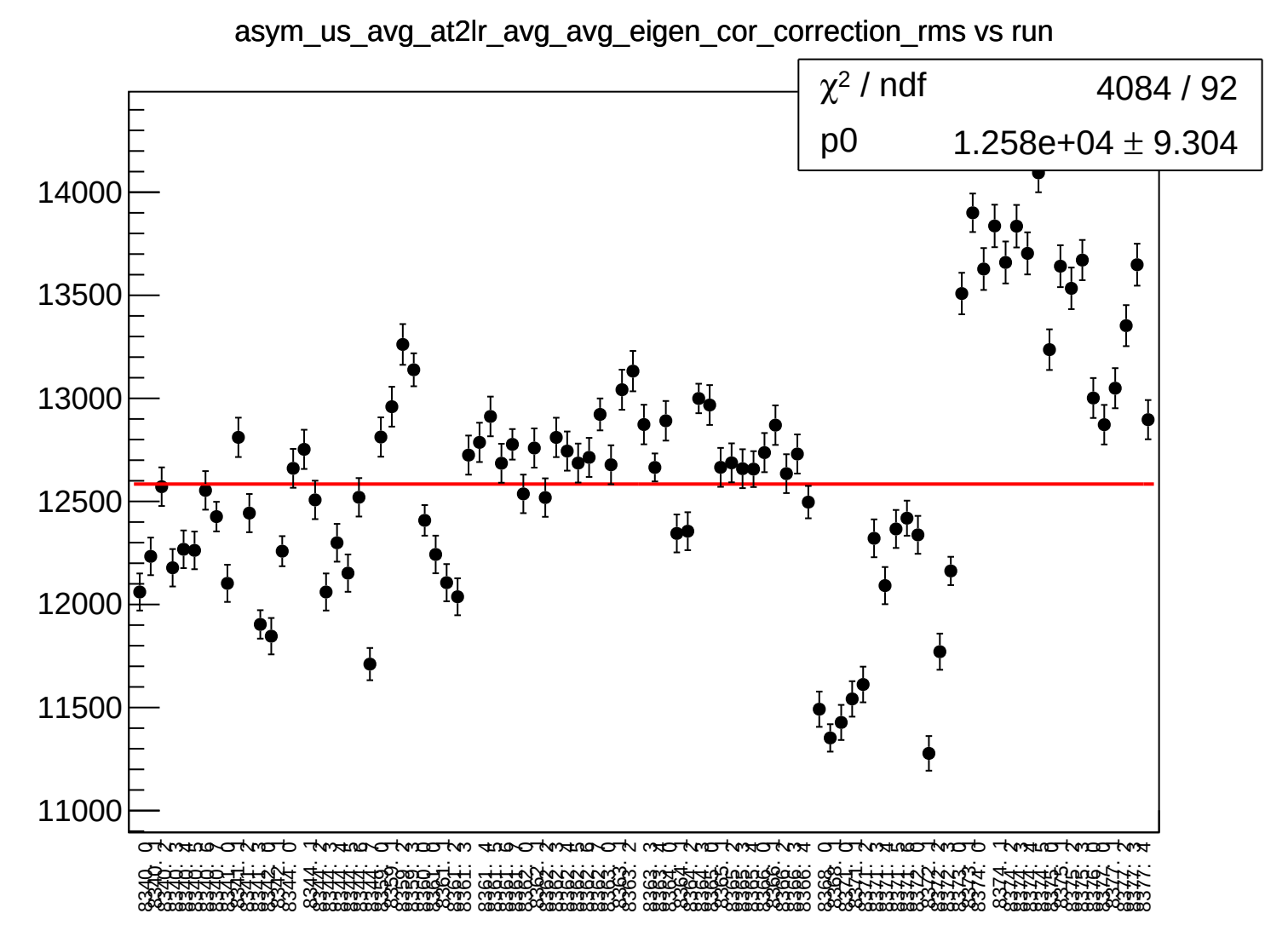

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4084 / 92
p0 1.258e+04 ± 9.304
14000
13500
13000
12500
12000
11500
11000

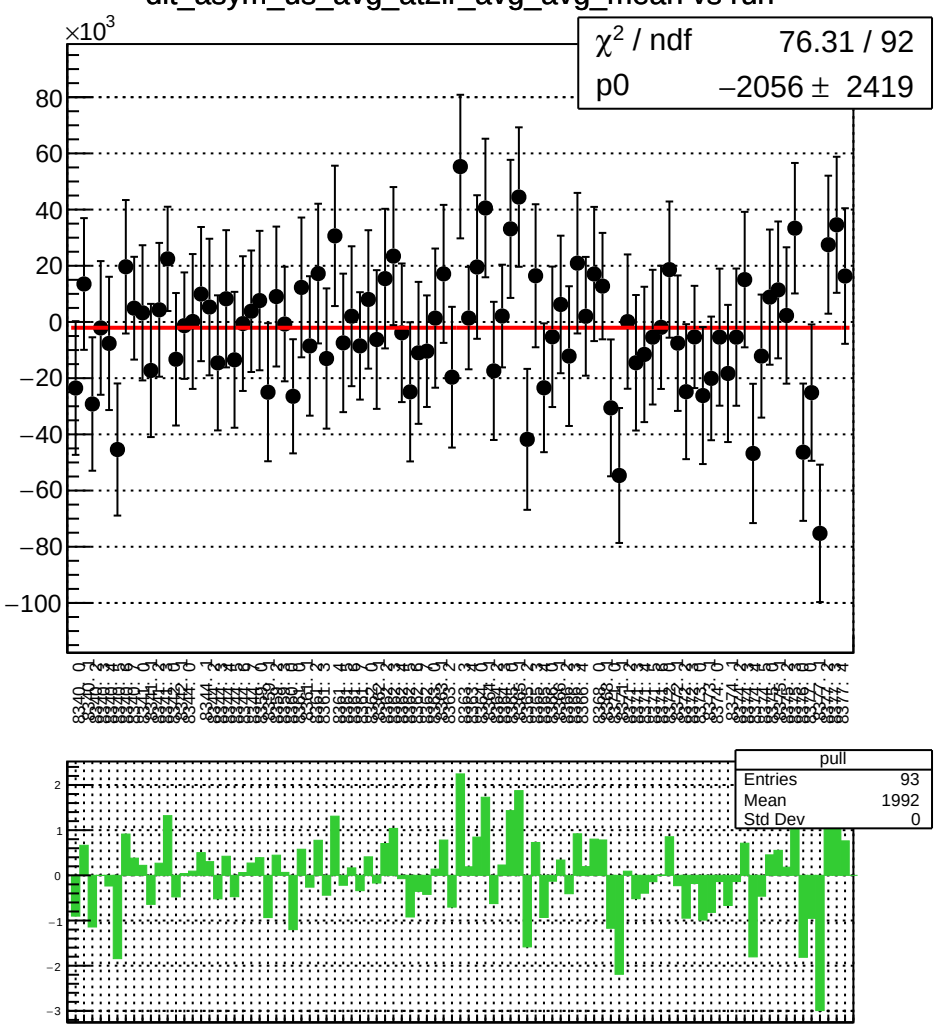

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 75.47 / 92
p0 −1709 ± 2400
pull
Entries 93
Mean 1343
Std Dev 0
pull1D
Entries 93
Mean −0.0009123
Std Dev 0.9008

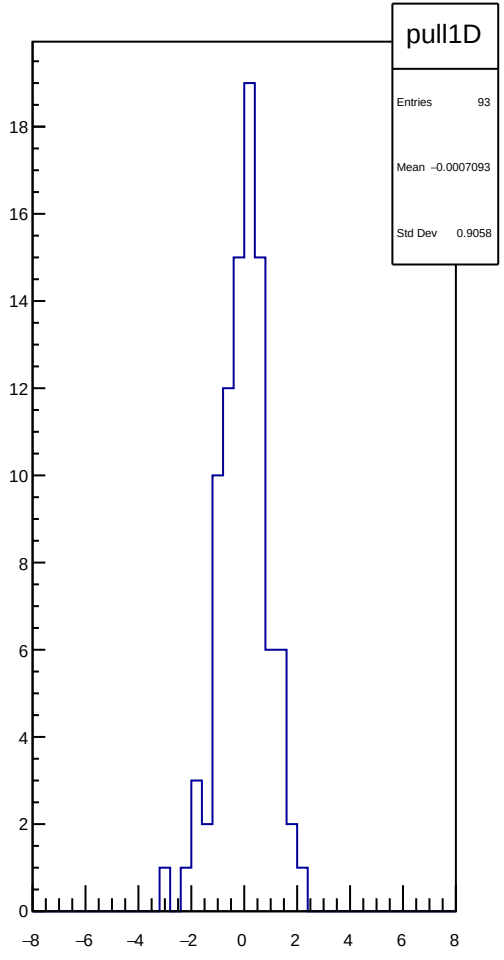

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 726.8 / 92
p0 2297 ± 1.697
2400
2350
2300
2250
2200

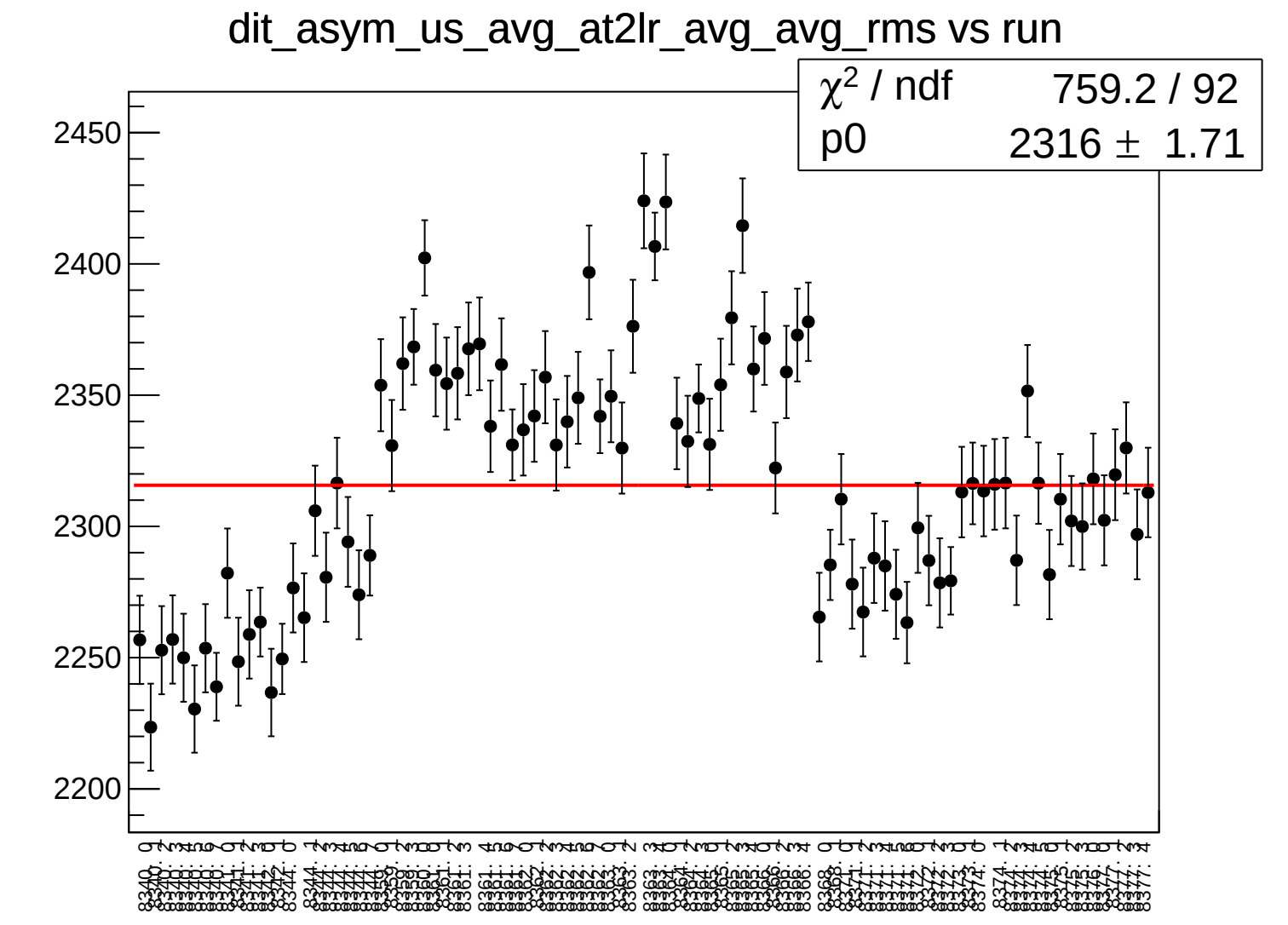

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 −2.214e+04 ± 1.316e+04
pull
Entries 93
Mean −335
Std Dev 0

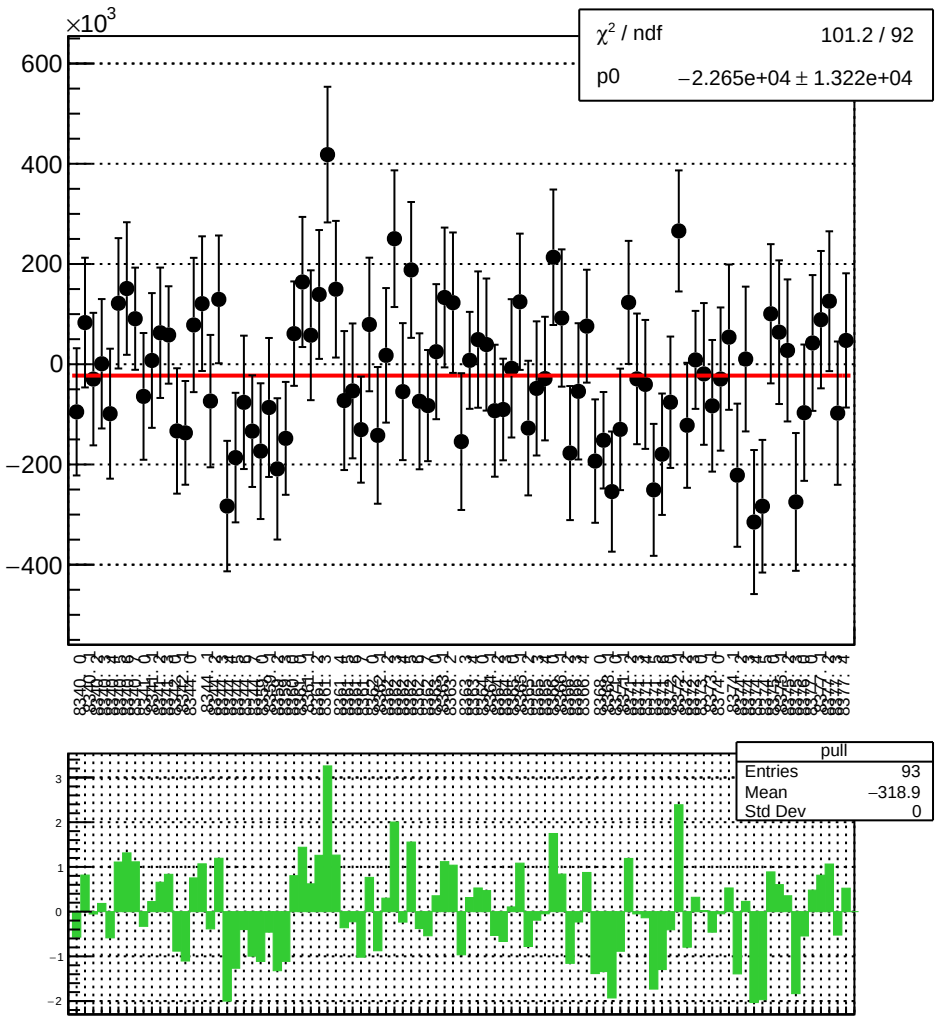

pull1D
Entries 93
Mean 0.008971
Std Dev 1.044

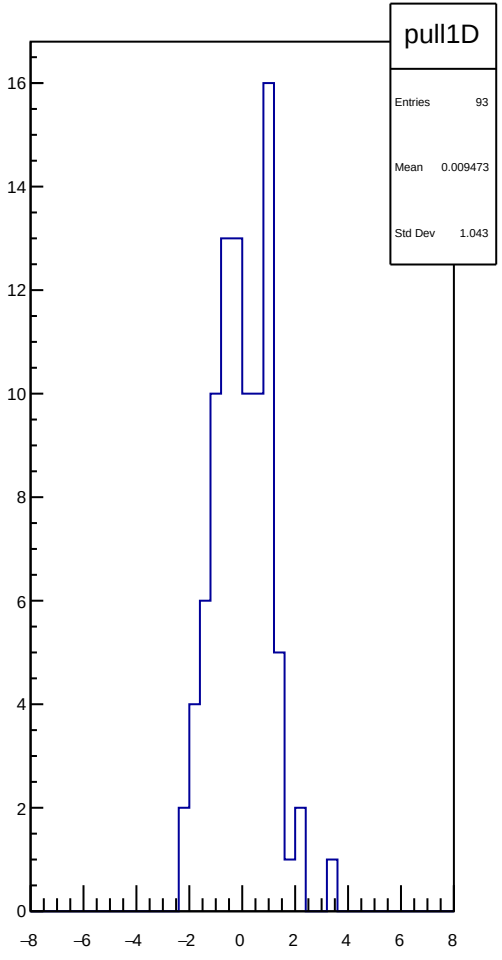

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4084 / 92
p0 1.258e+04 ± 9.304
14000
13500
13000
12500
12000
11500
11000

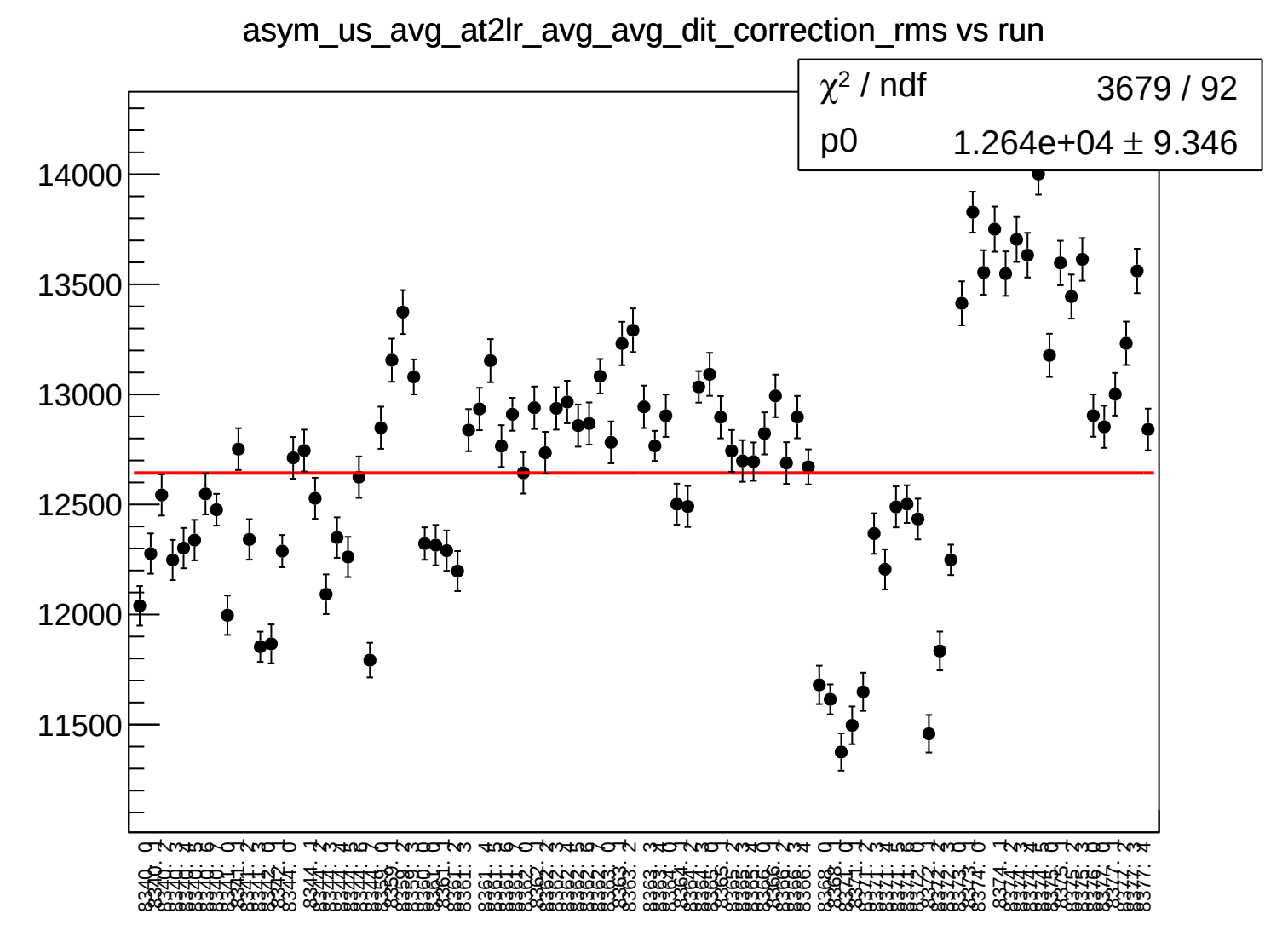

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 76.31 / 92
p0 −2056 ± 2419
pull
Entries 93
Mean 1992
Std Dev 0

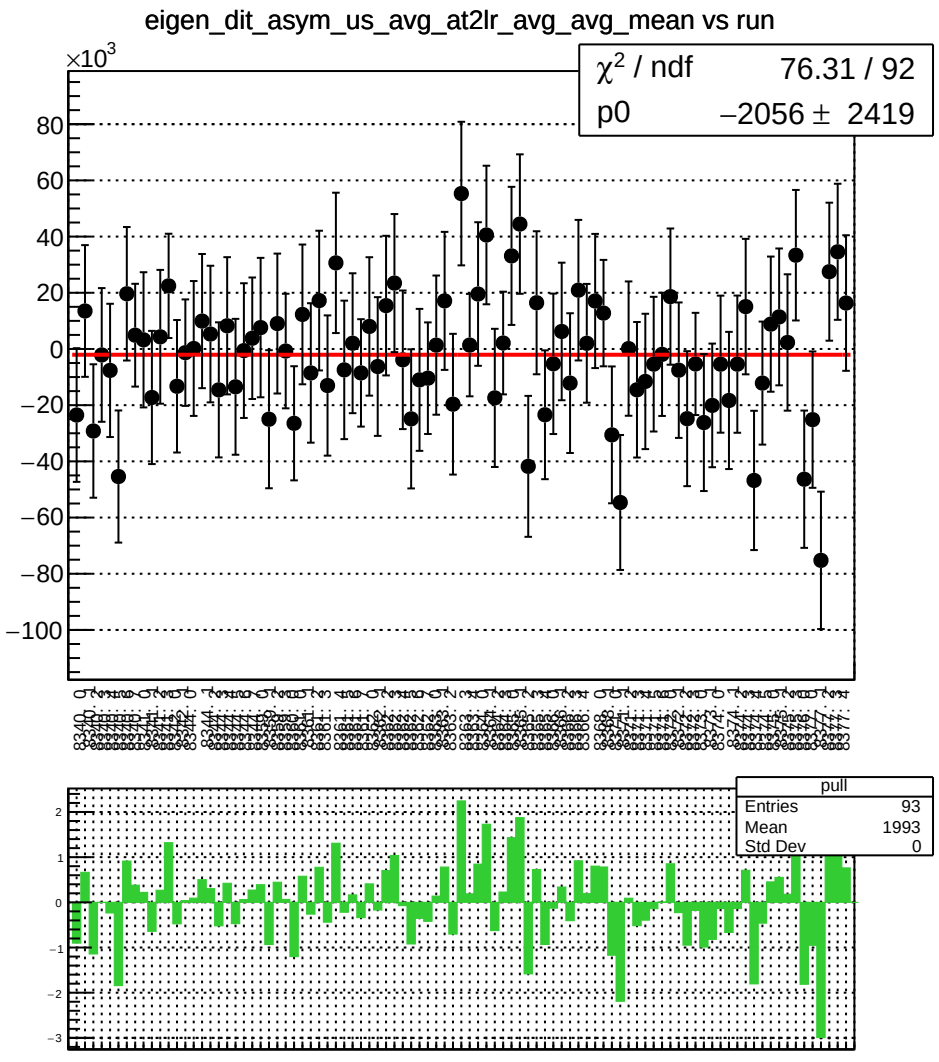

pull1D
Entries 93
Mean −0.0007093
Std Dev 0.9058

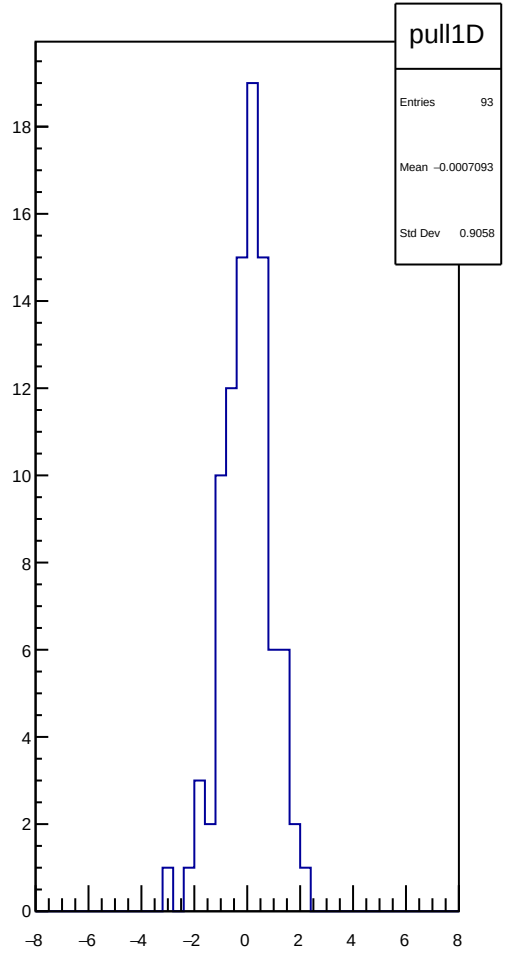

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 759.2 / 92
p0 2316 ± 1.71
2450
2400
2350
2300
2250
2200

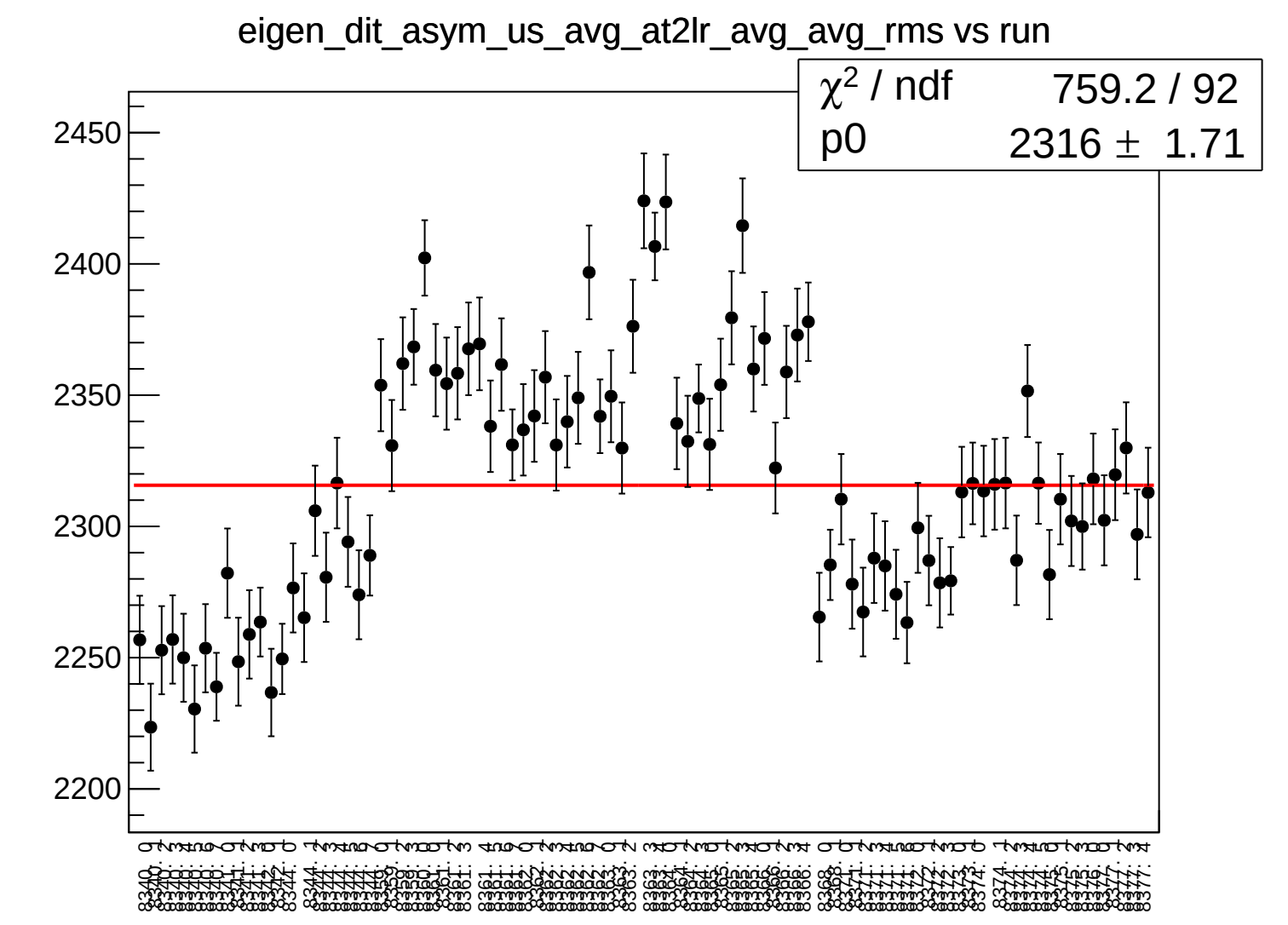

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 101.2 / 92
p0 −2.265e+04 ± 1.322e+04
pull
Entries 93
Mean −318.9
Std Dev 0
3
2
1
0
−1
−2

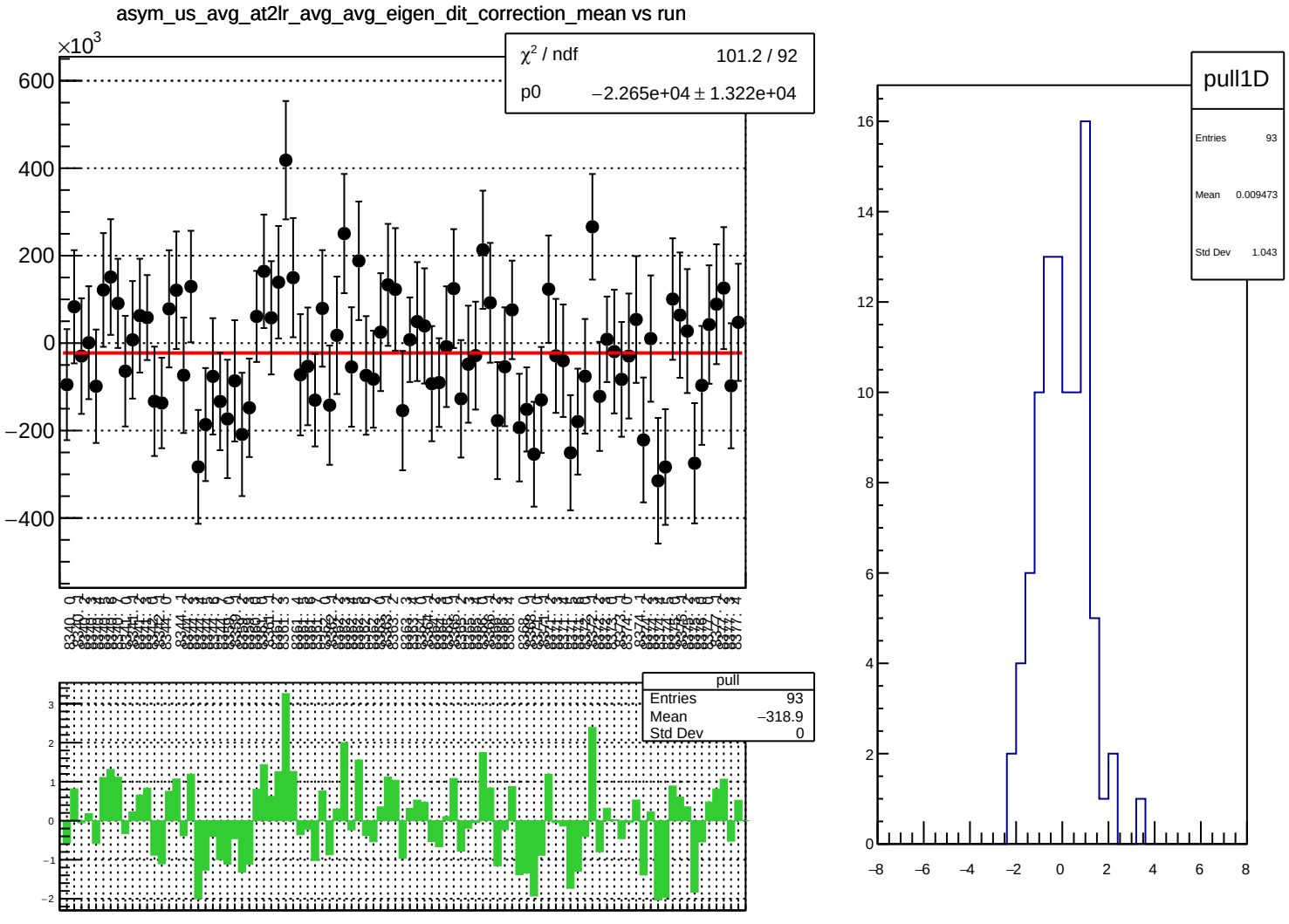

pull1D
Entries 93
Mean 0.009473
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

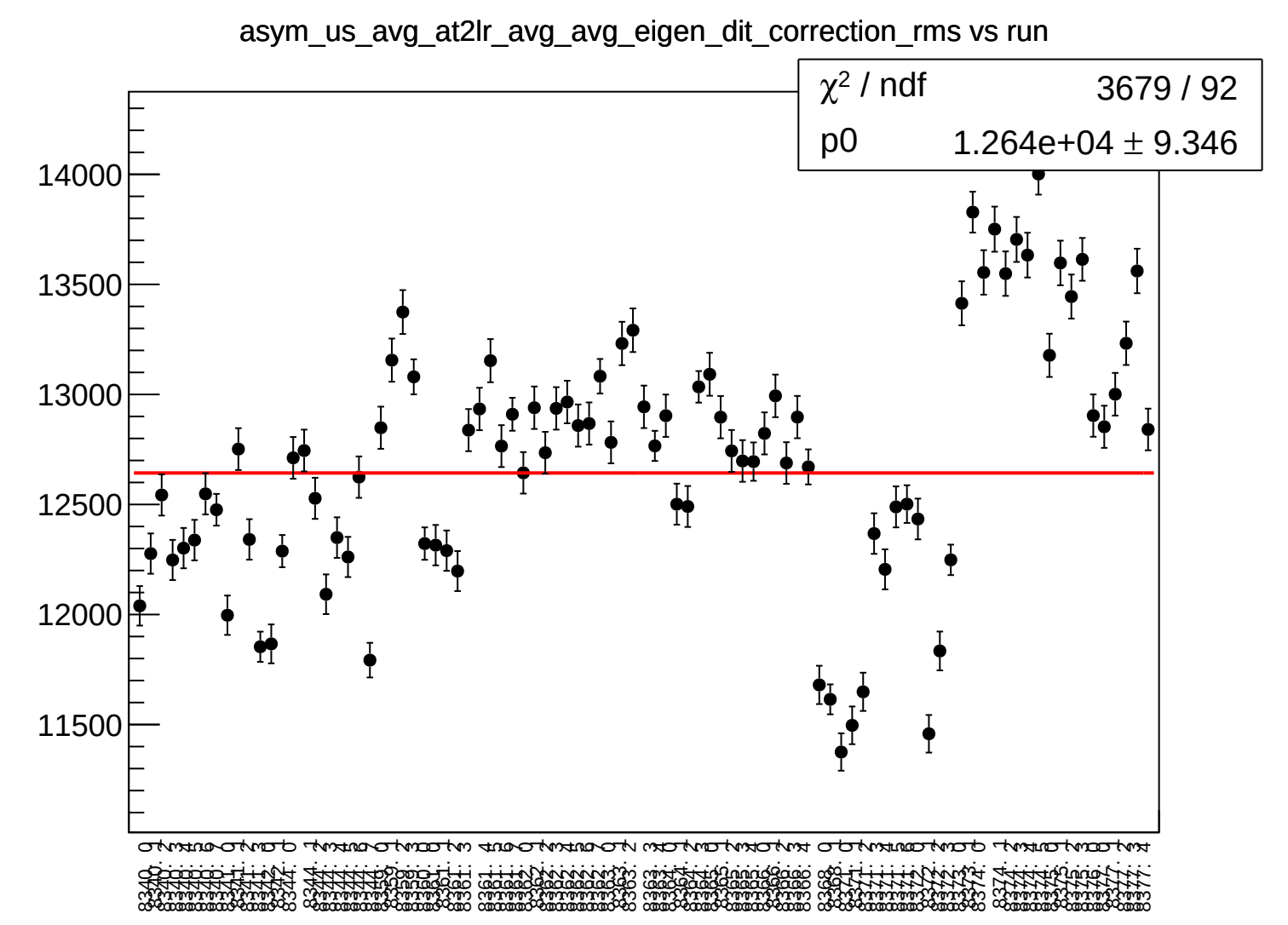

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3679 / 92
p0 1.264e+04 ± 9.346
14000
13500
13000
12500
12000
11500

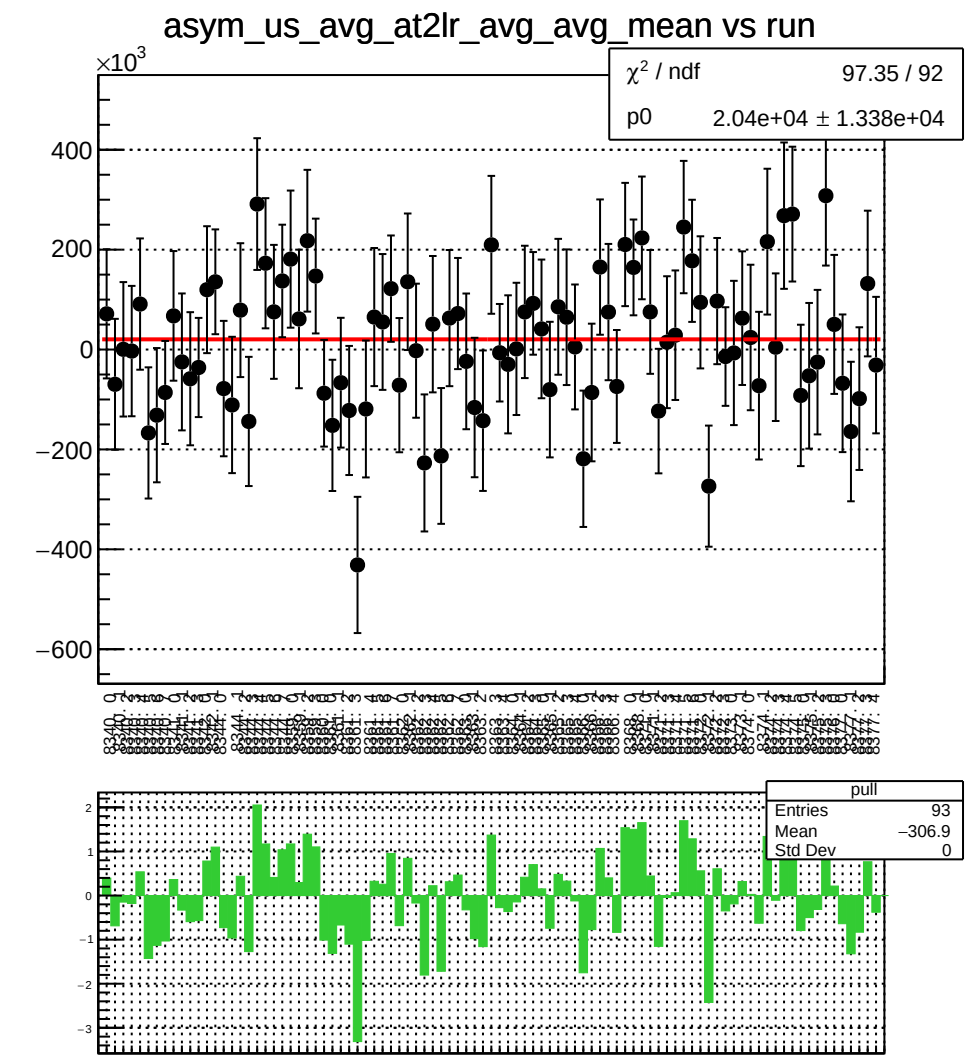

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 76.31 / 92
p0 −2056 ± 2419
pull
Entries 93
Mean 1993
Std Dev 0

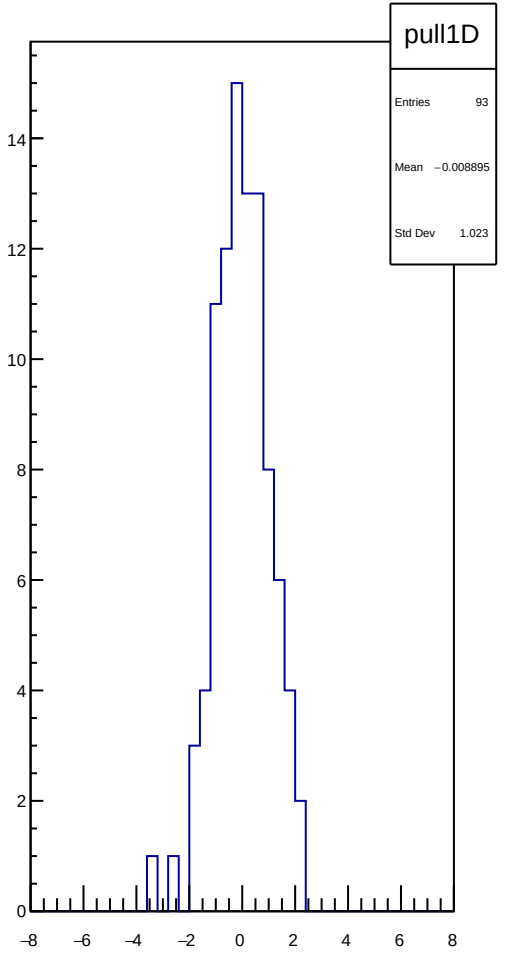

pull1D
Entries 93
Mean −0.0007093
Std Dev 0.9058

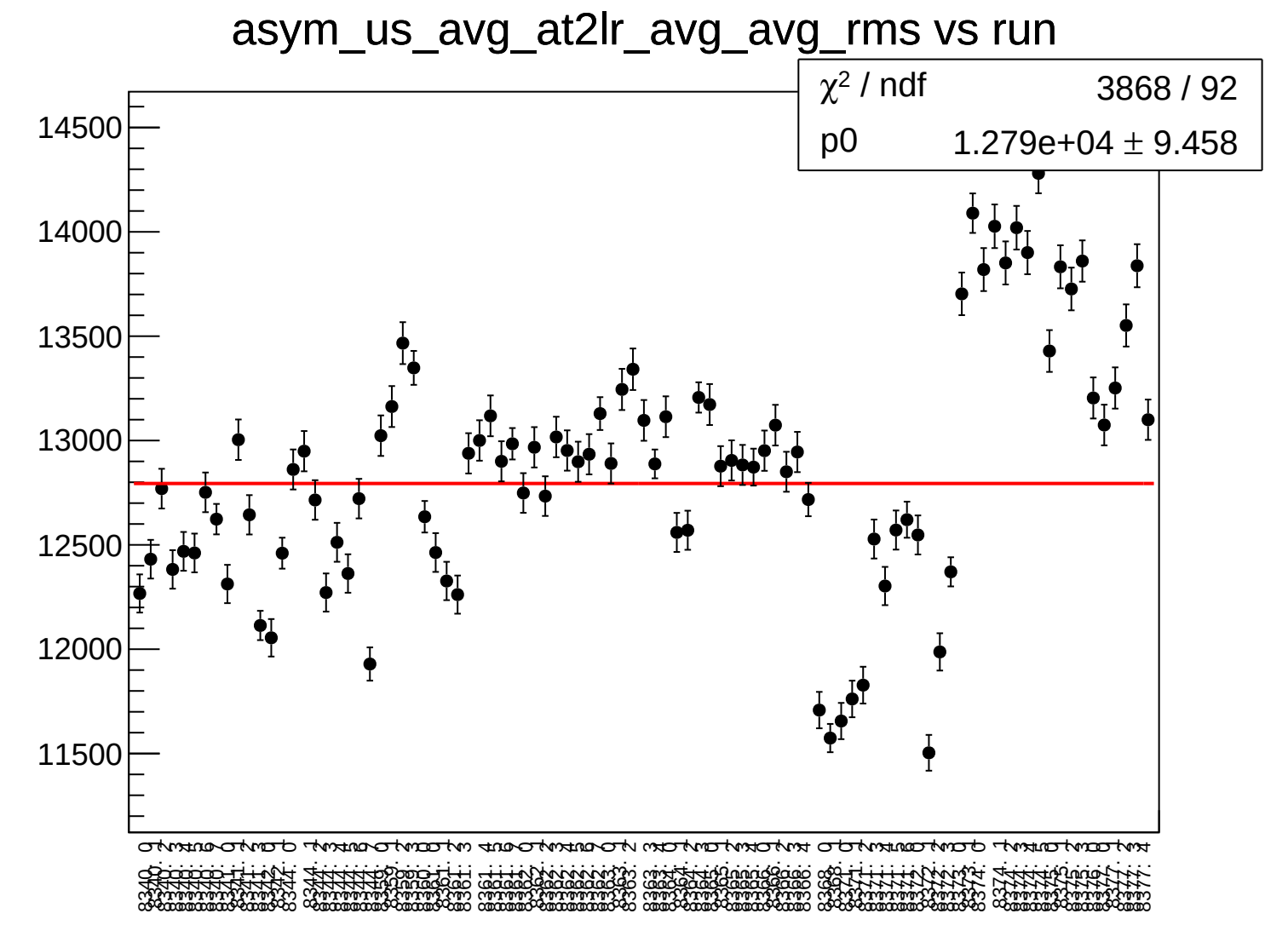

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 759.2 / 92
p0 2316 ± 1.71
2450
2400
2350
2300
2250
2200

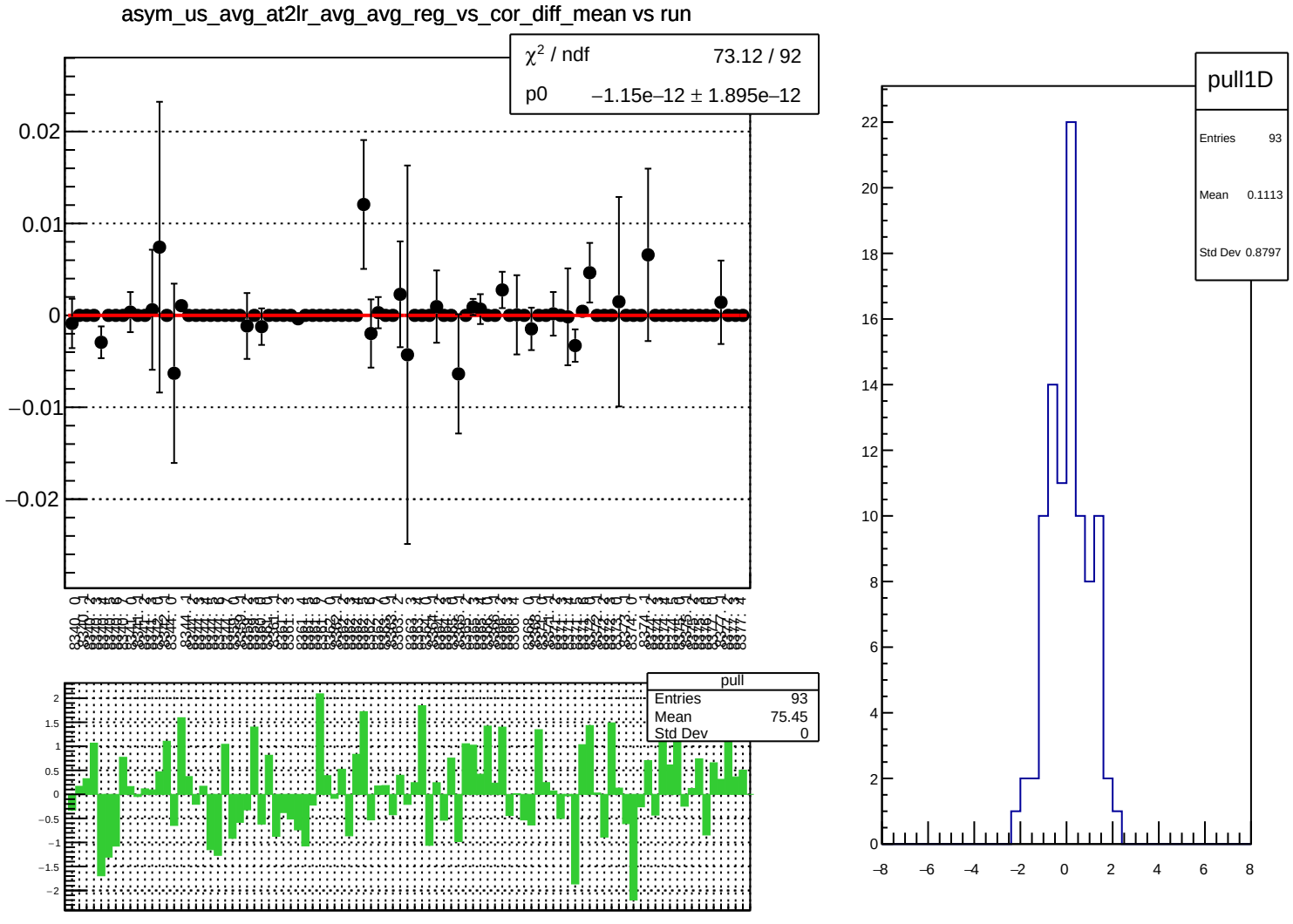

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 101.2 / 92
p0 −2.265e+04 ± 1.322e+04
pull
Entries 93
Mean −318.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.009473
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

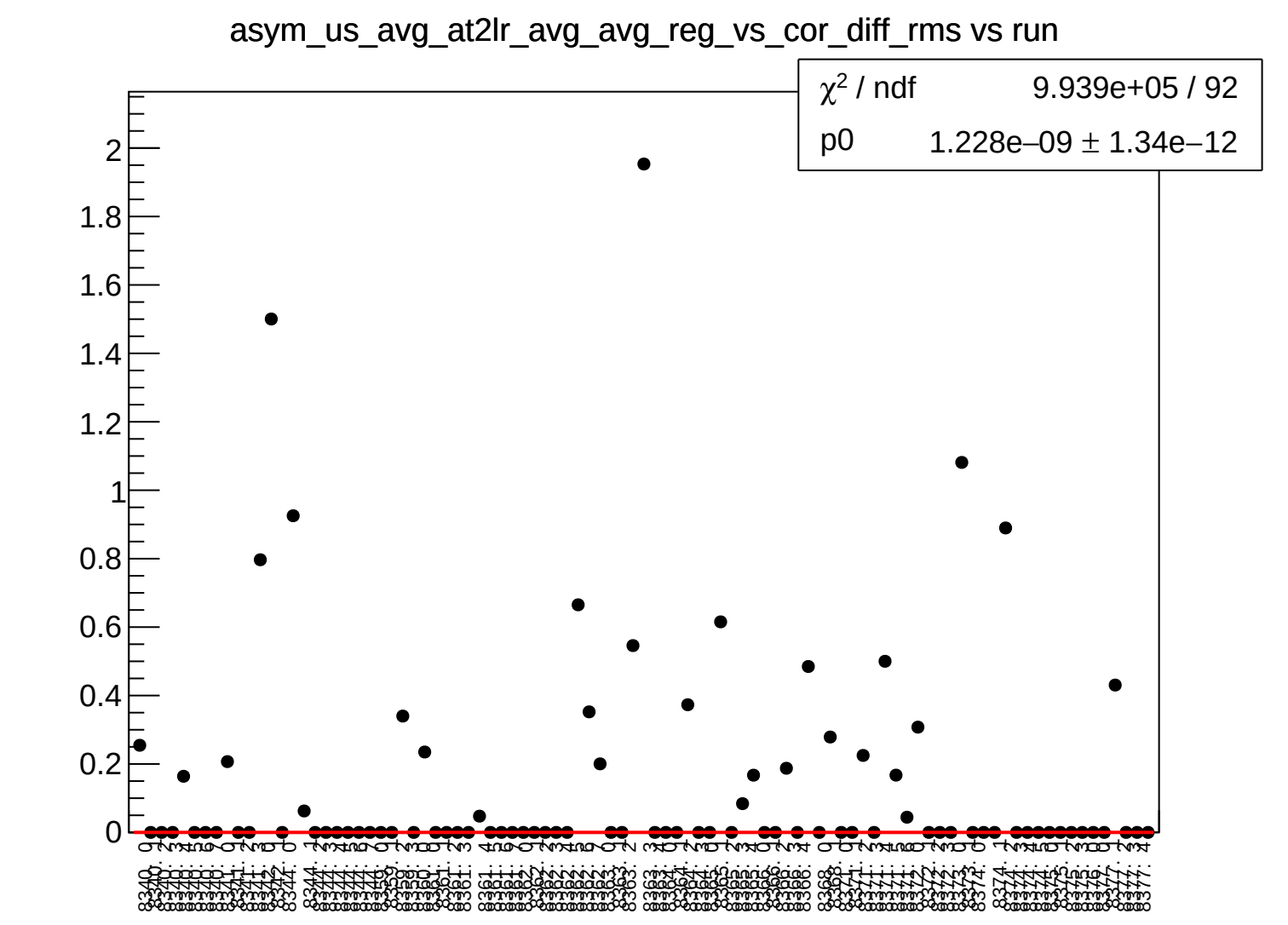

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3679 / 92
p0 1.264e+04 ± 9.346
14000
13500
13000
12500
12000
11500

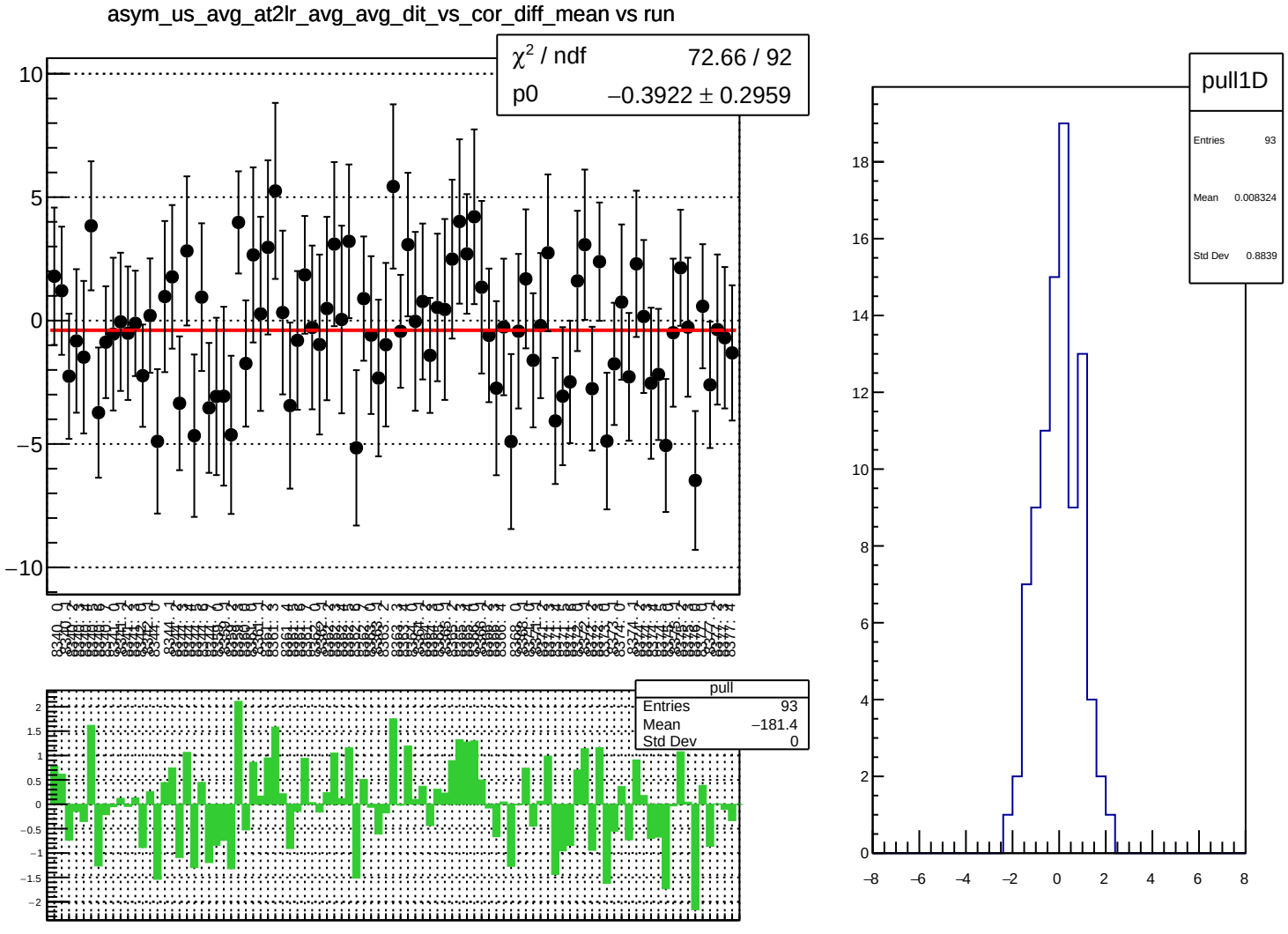

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 97.35 / 92
p0 2.04e+04 ± 1.338e+04
400
200
0
−200
−400
−600
pull
Entries 93
Mean −306.9
Std Dev 0
2
1
0
−1
−2
−3

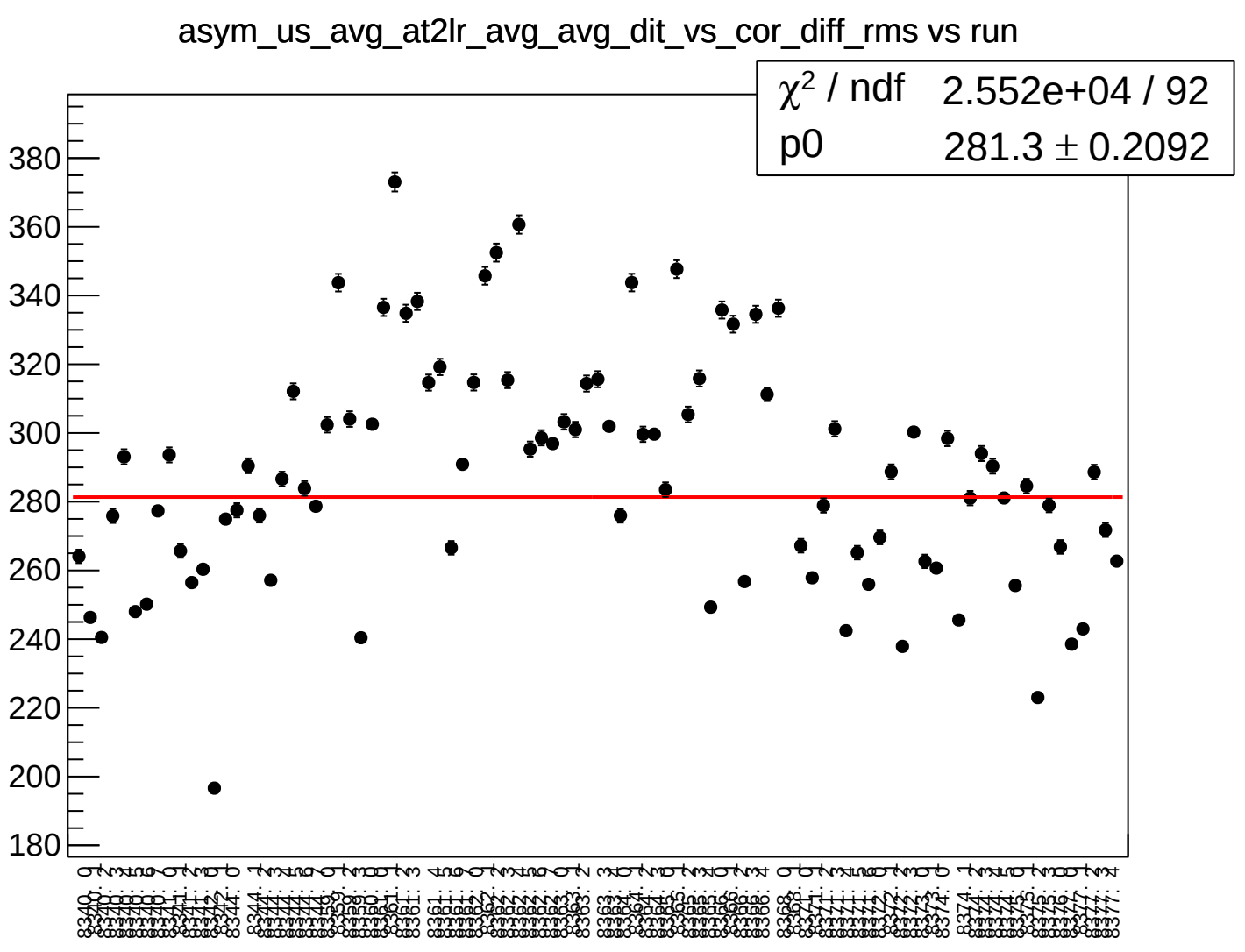

pull1D
Entries 93
Mean −0.008895
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

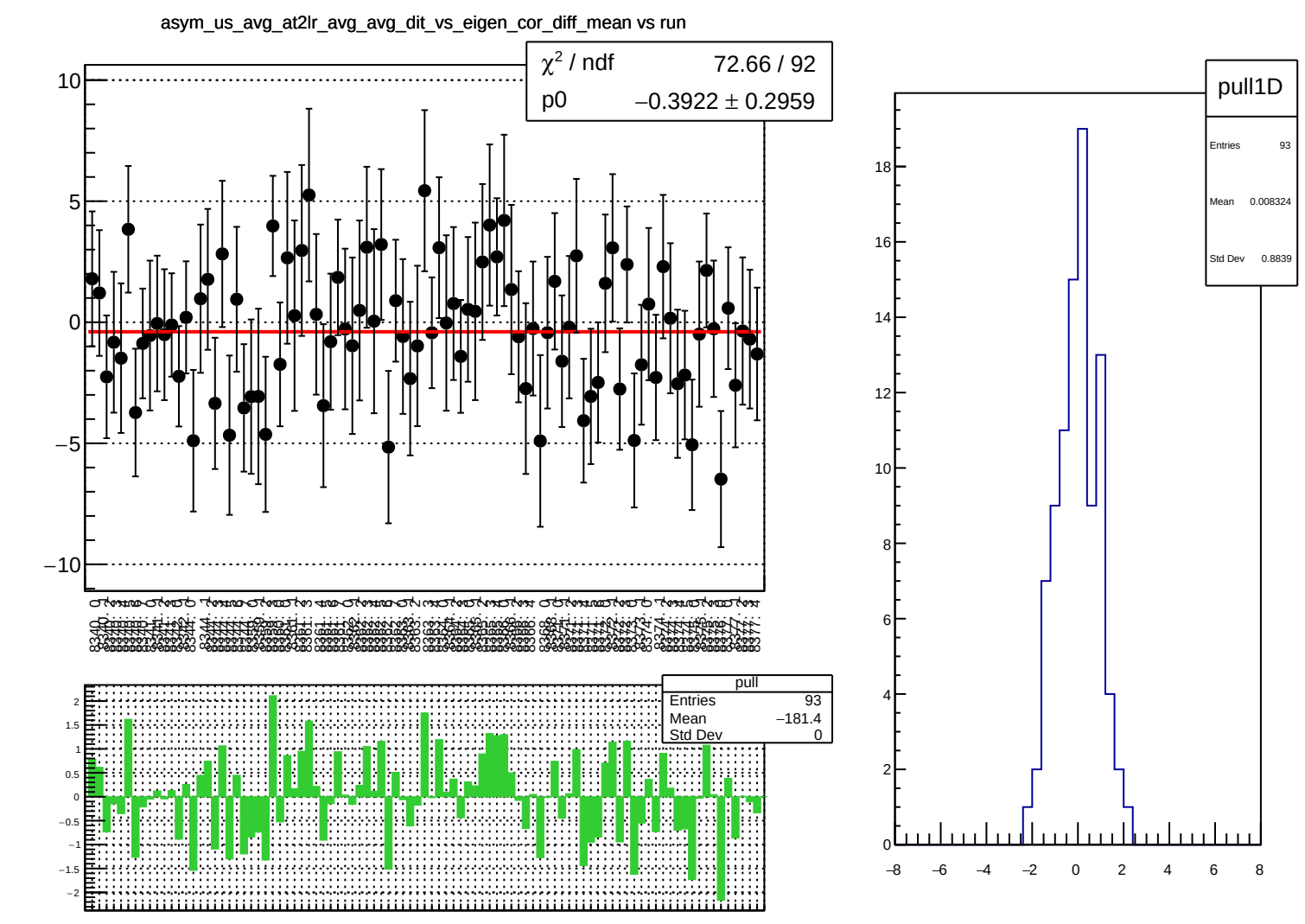

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3868 / 92
p0 1.279e+04 ± 9.458
14500
14000
13500
13000
12500
12000
11500

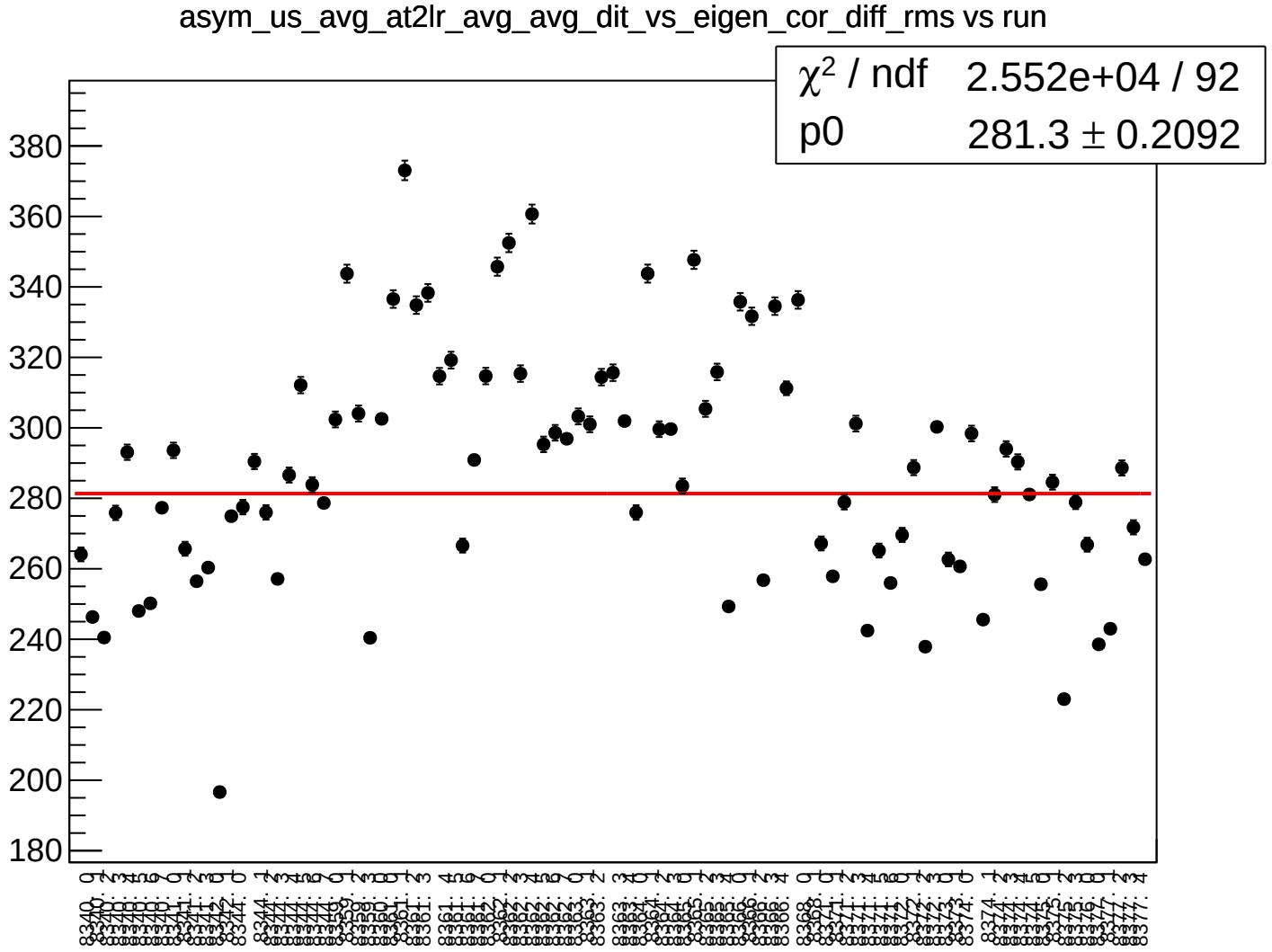

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.12 / 92
p0 −1.15e−12 ± 1.895e−12
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 75.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.1113
Std Dev 0.8797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

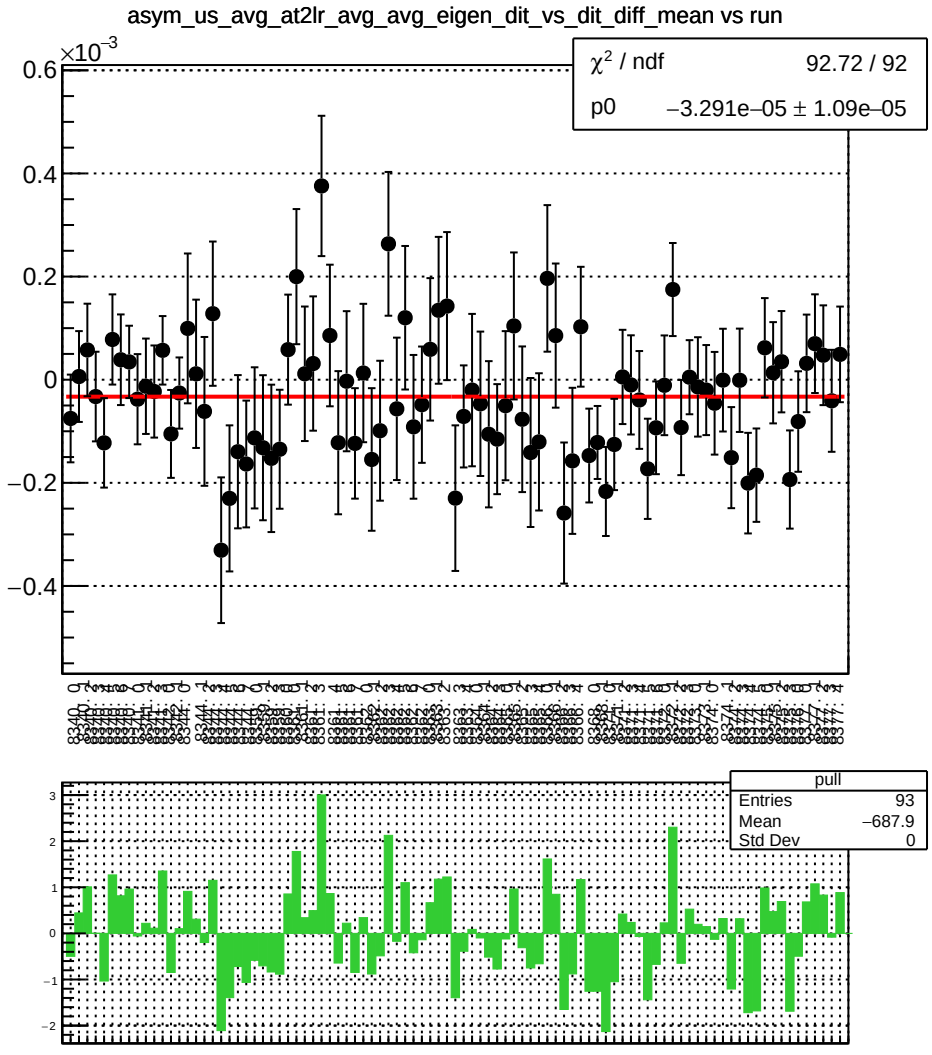

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.939e+05 / 92
p0 1.228e−09 ± 1.34e−12
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

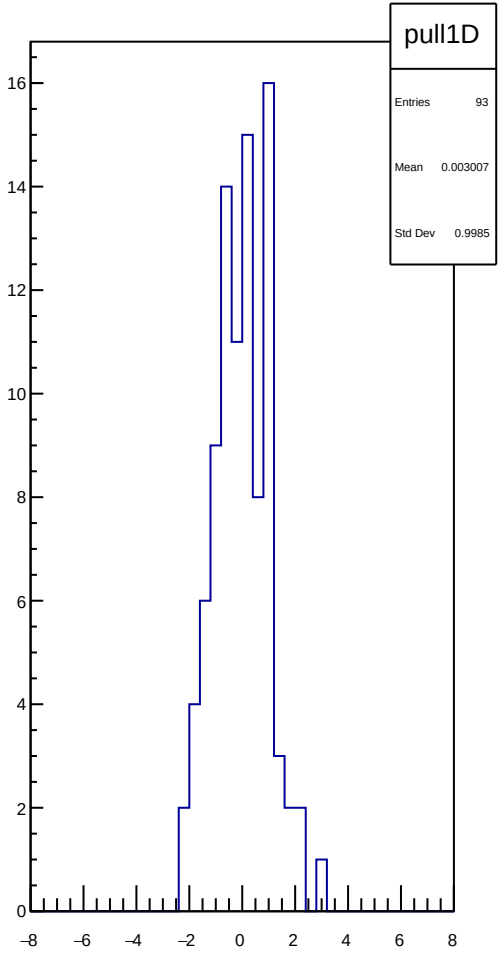

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.66 / 92
p0 −0.3922 ± 0.2959
pull
Entries 93
Mean −181.4
Std Dev 0
pull1D
Entries 93
Mean 0.008324
Std Dev 0.8839

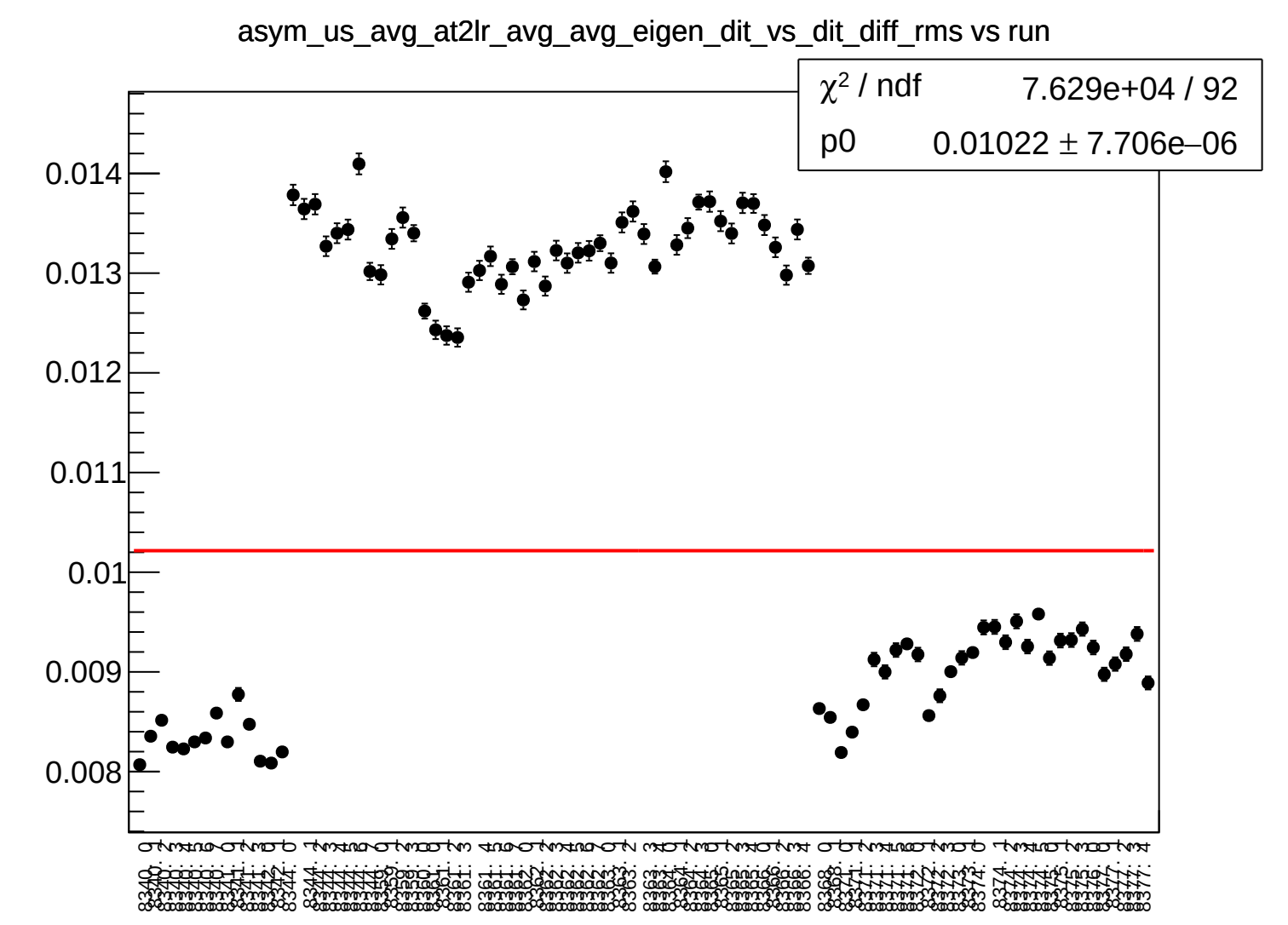

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 92
p0 281.3 ± 0.2092
380
360
340
320
300
280
260
240
220
200
180

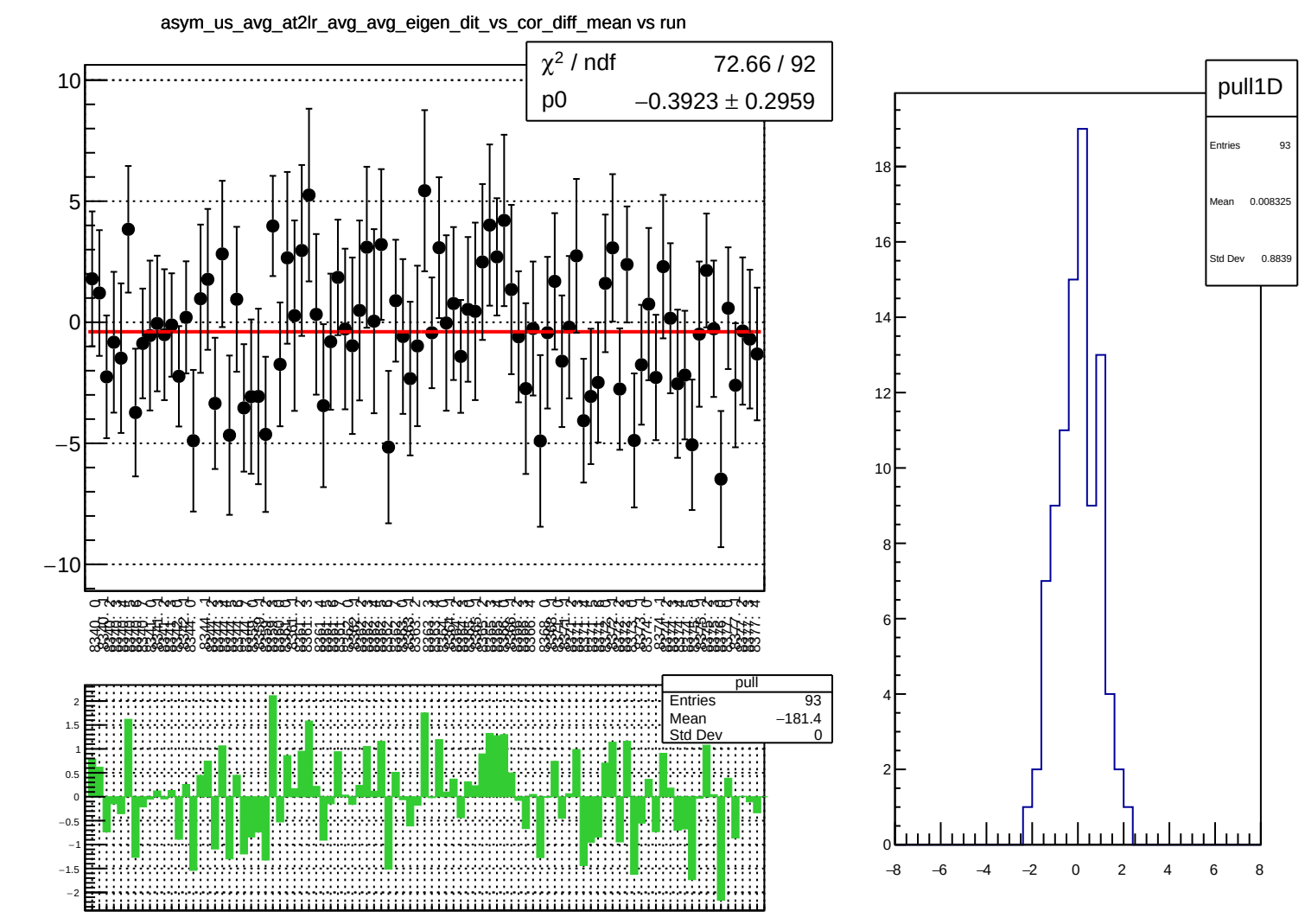

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.66 / 92
p0 −0.3922 ± 0.2959
pull
Entries 93
Mean −181.4
Std Dev 0
pull1D
Entries 93
Mean 0.008324
Std Dev 0.8839

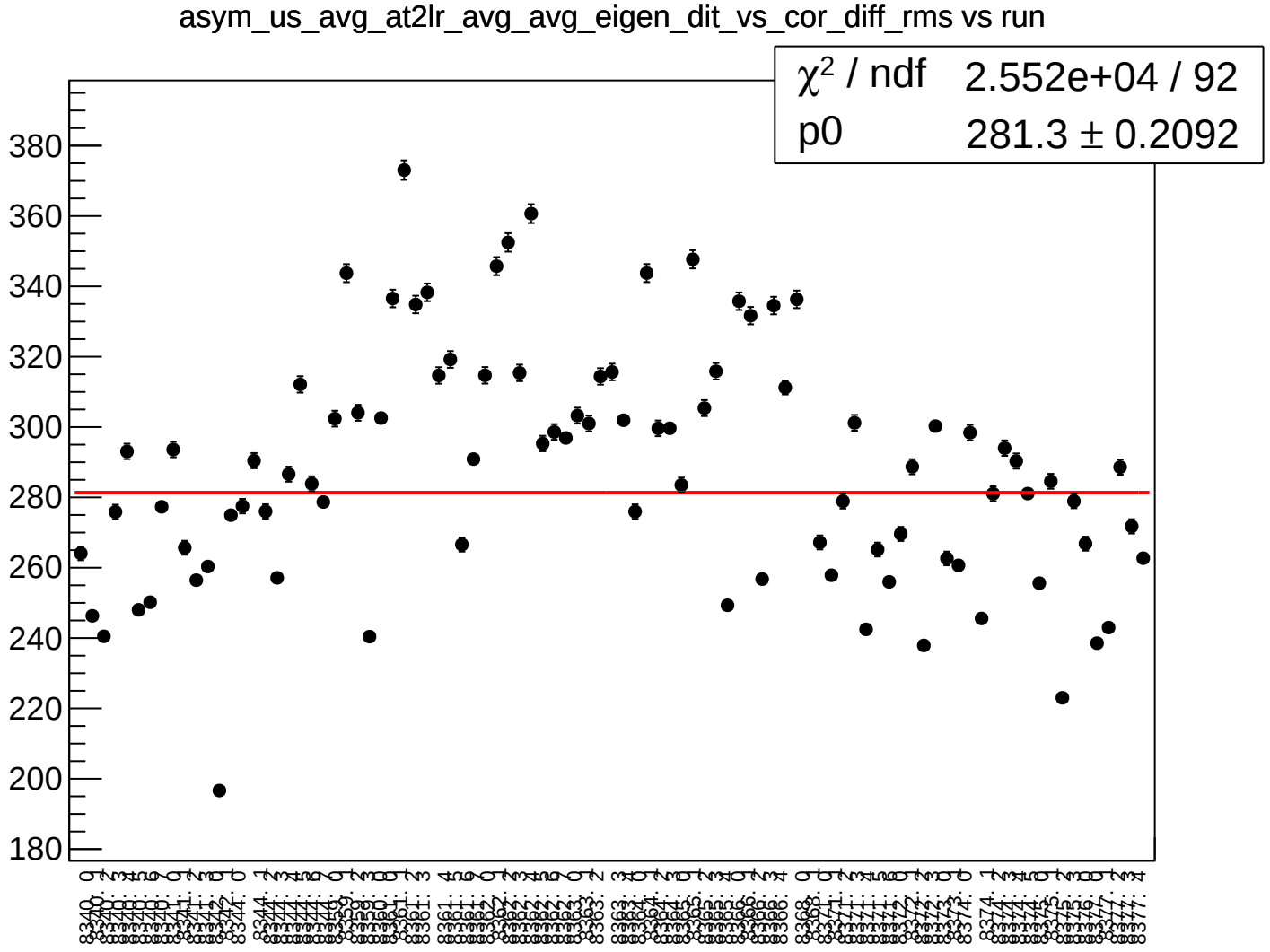

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 92
p0 281.3 ± 0.2092
380
360
340
320
300
280
260
240
220
200
180

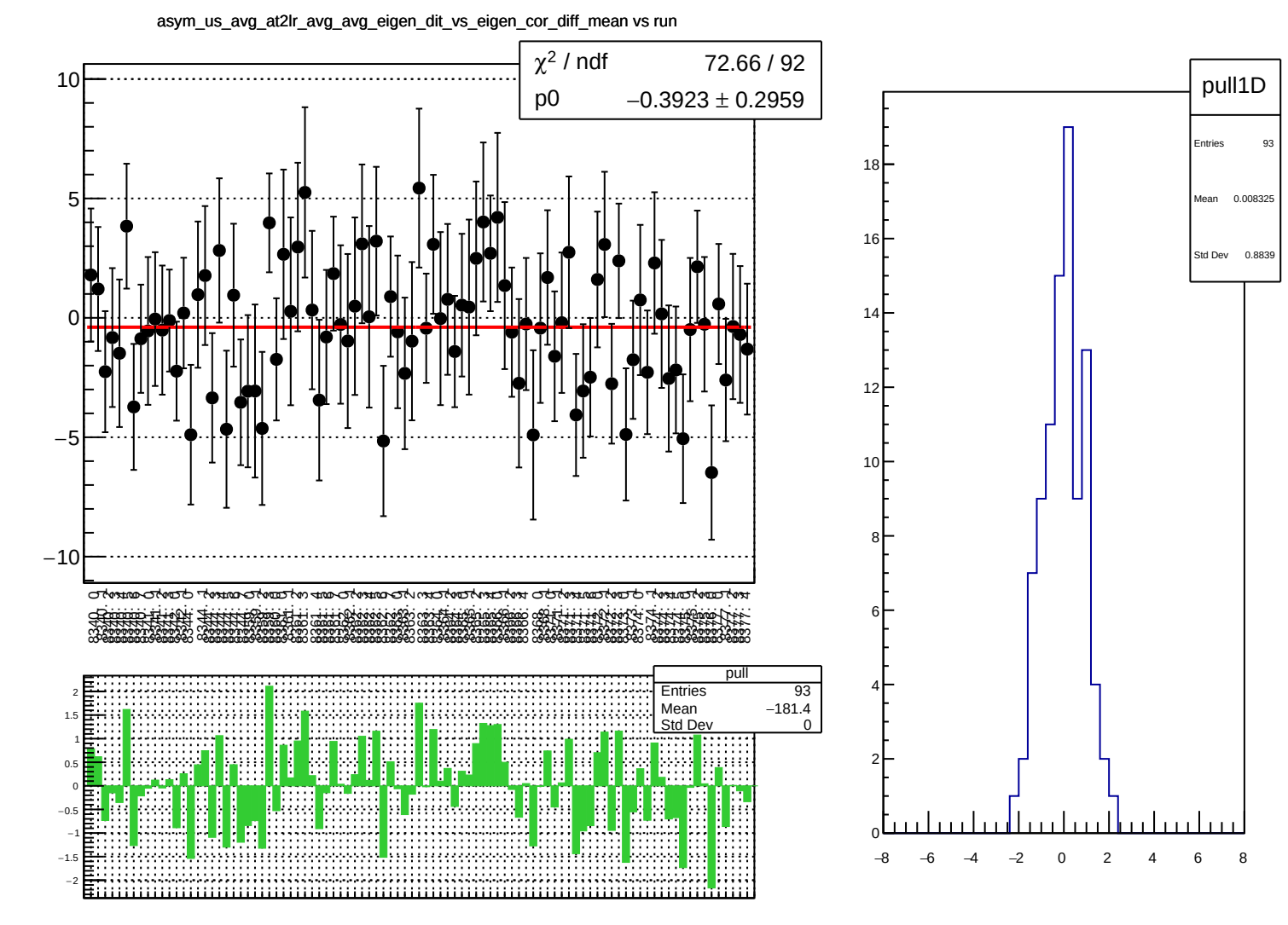

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.72 / 92
p0 −3.291e−05 ± 1.09e−05
pull
Entries 93
Mean −687.9
Std Dev 0

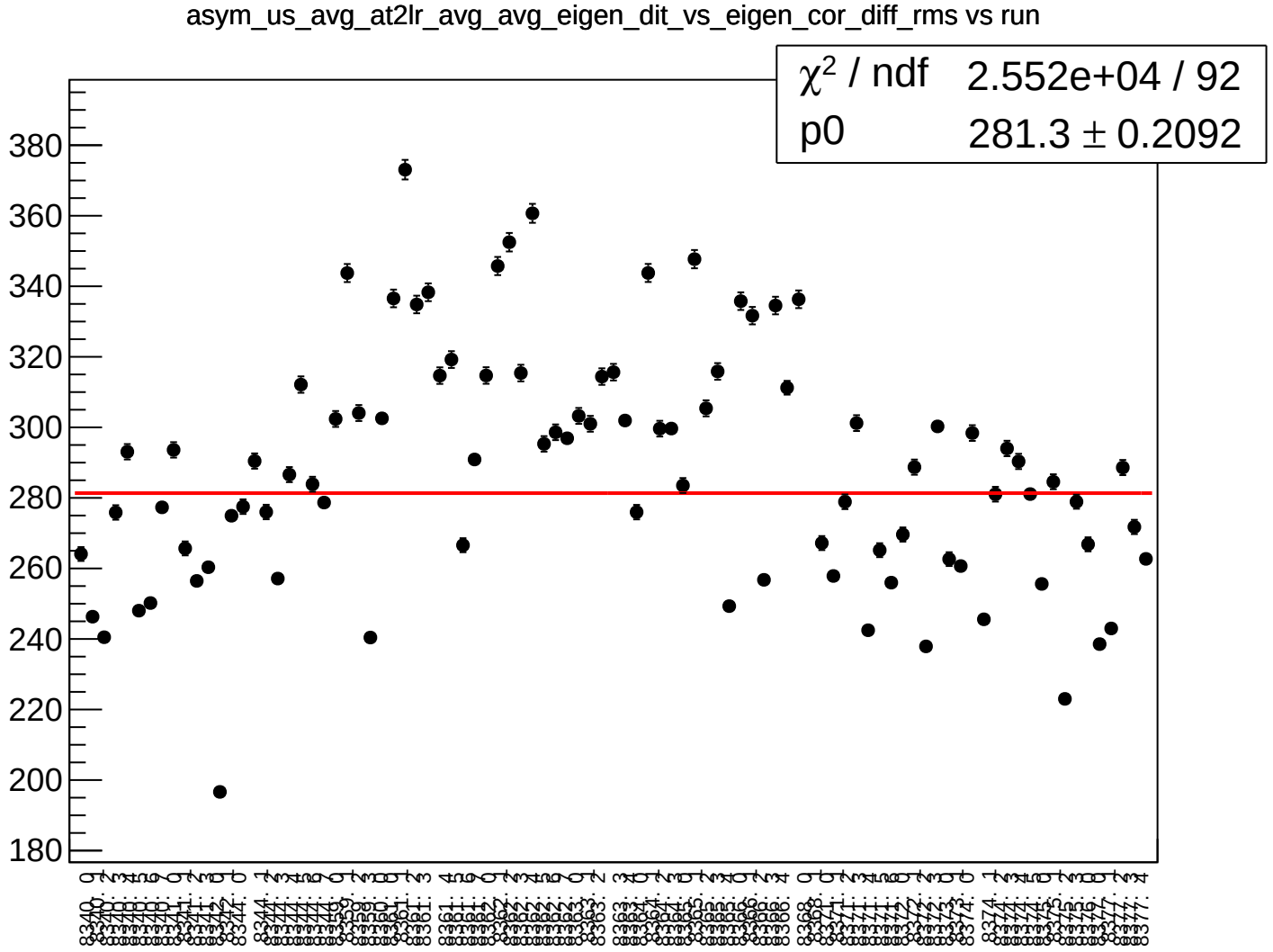

pull1D
Entries 93
Mean 0.003007
Std Dev 0.9985

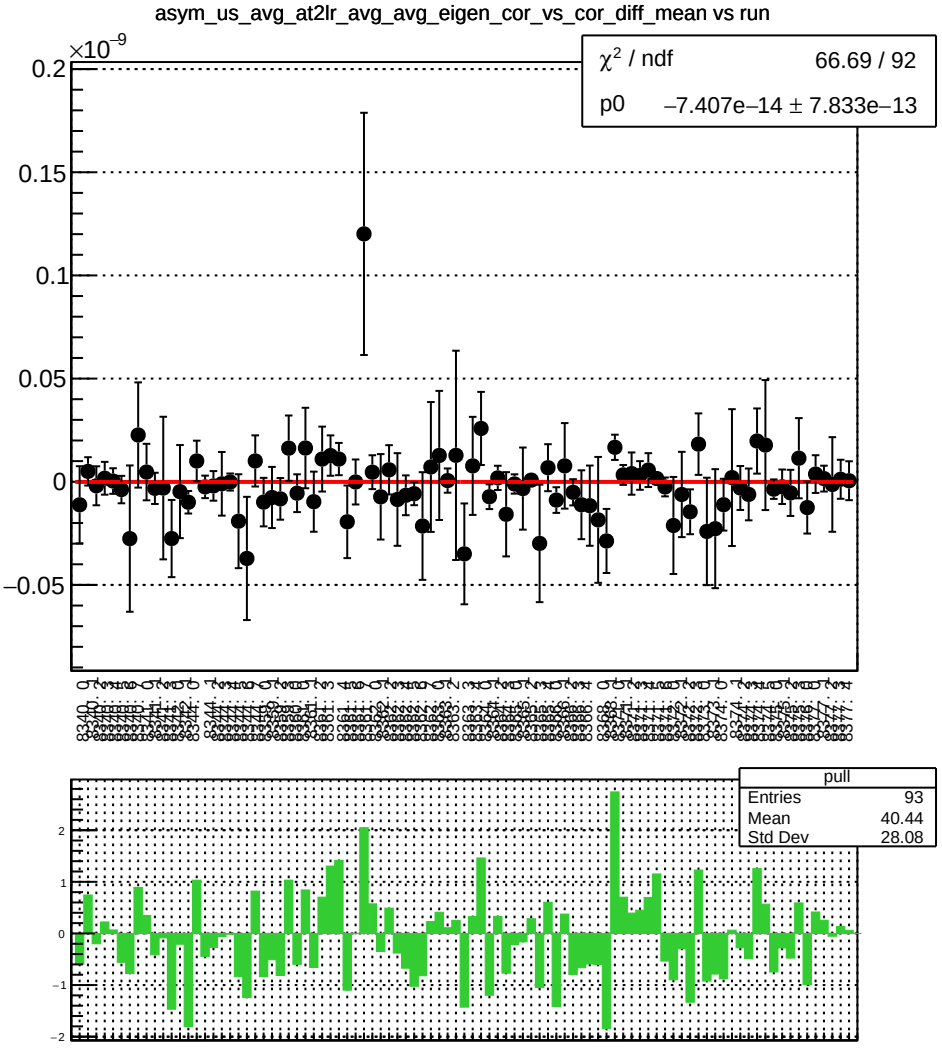

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.629e+04 / 92
p0 0.01022 ± 7.706e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

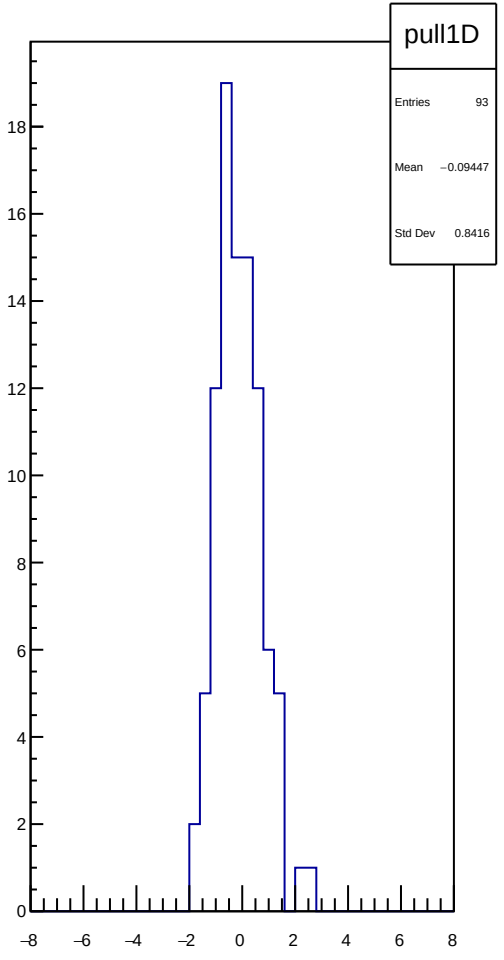

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.66 / 92
p0 −0.3923 ± 0.2959
pull
Entries 93
Mean −181.4
Std Dev 0
pull1D
Entries 93
Mean 0.008325
Std Dev 0.8839

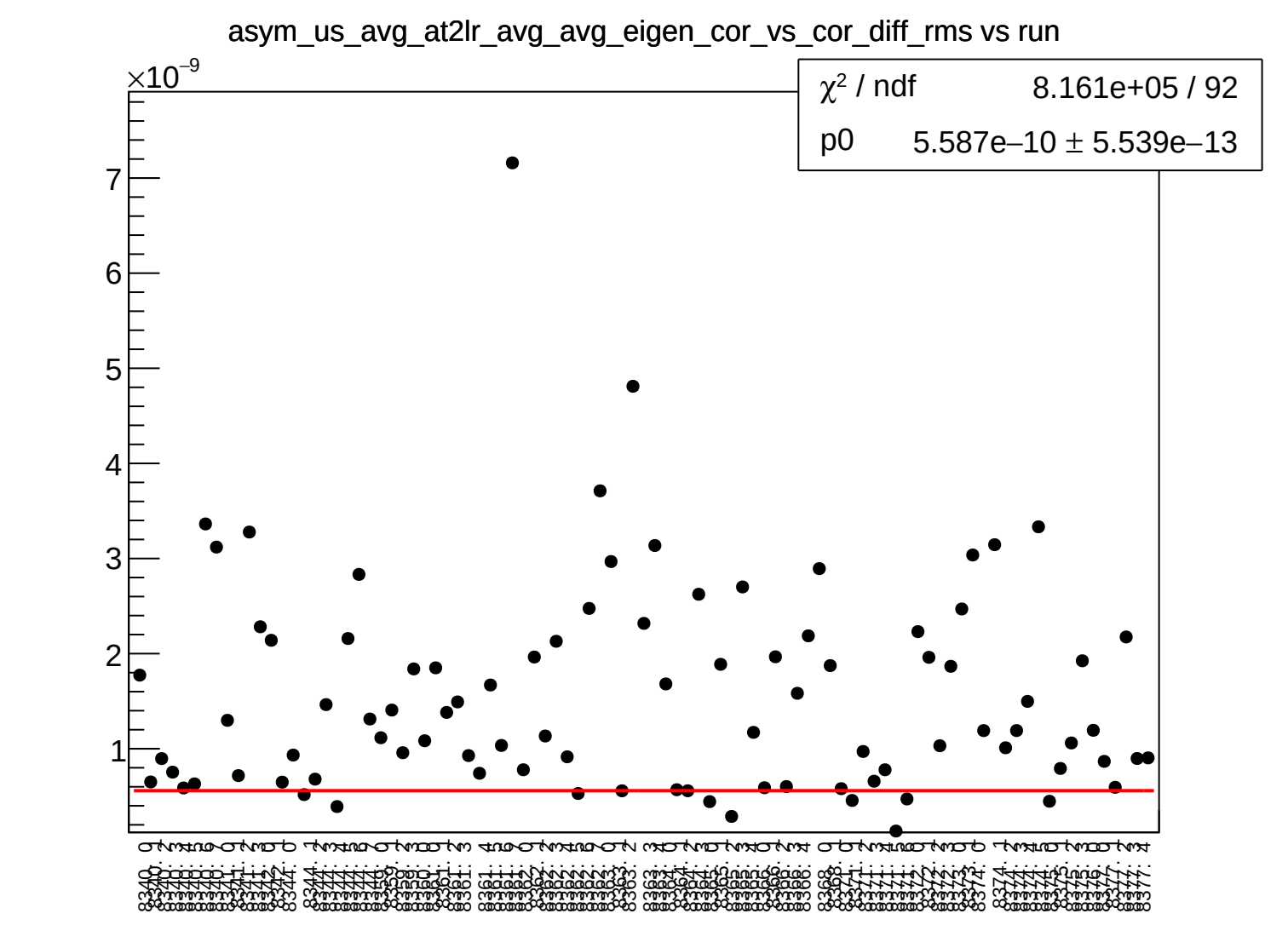

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 92
p0 281.3 ± 0.2092
380
360
340
320
300
280
260
240
220
200
180

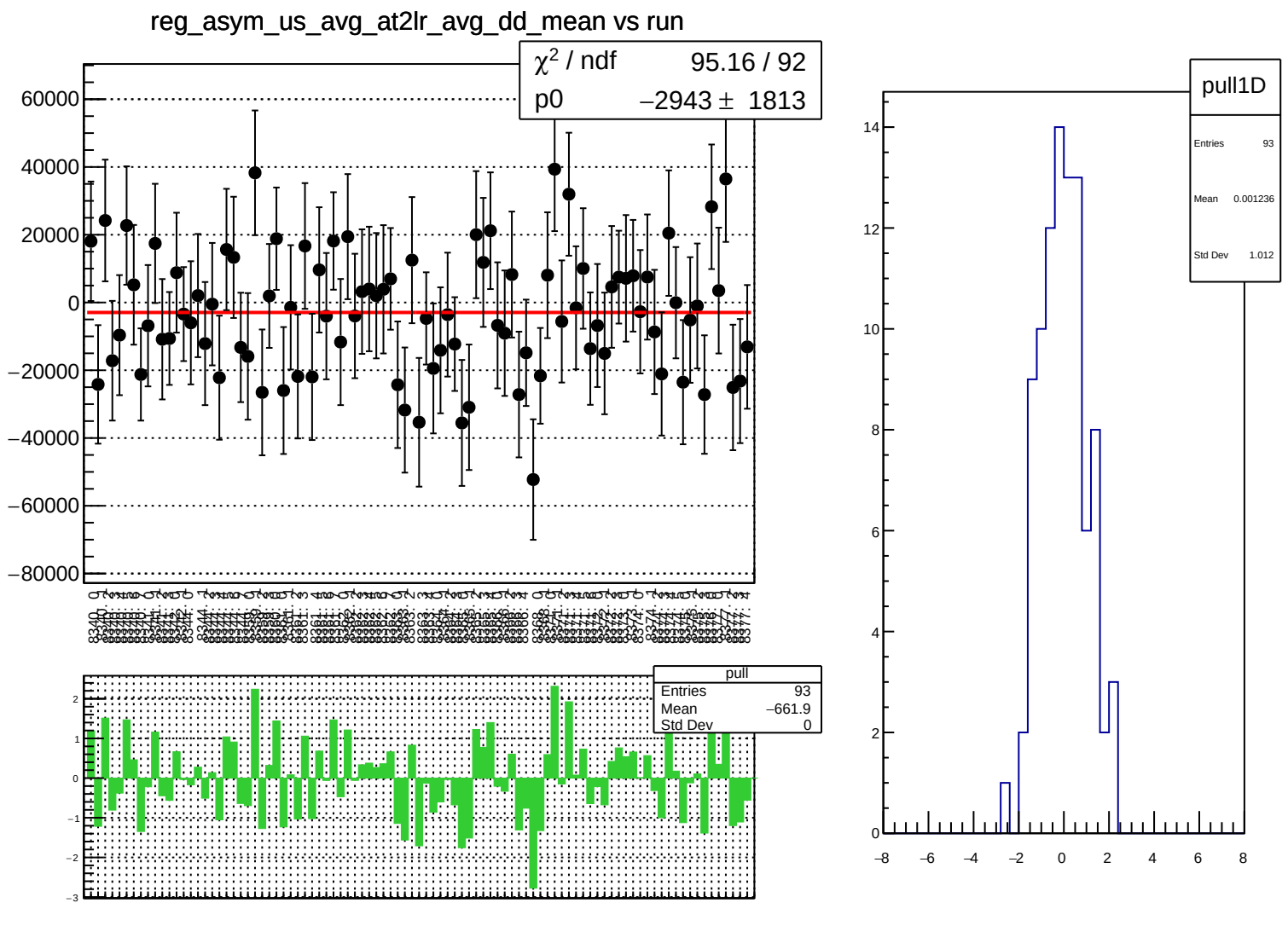

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.66 / 92
p0 −0.3923 ± 0.2959
pull
Entries 93
Mean −181.4
Std Dev 0
pull1D
Entries 93
Mean 0.008325
Std Dev 0.8839

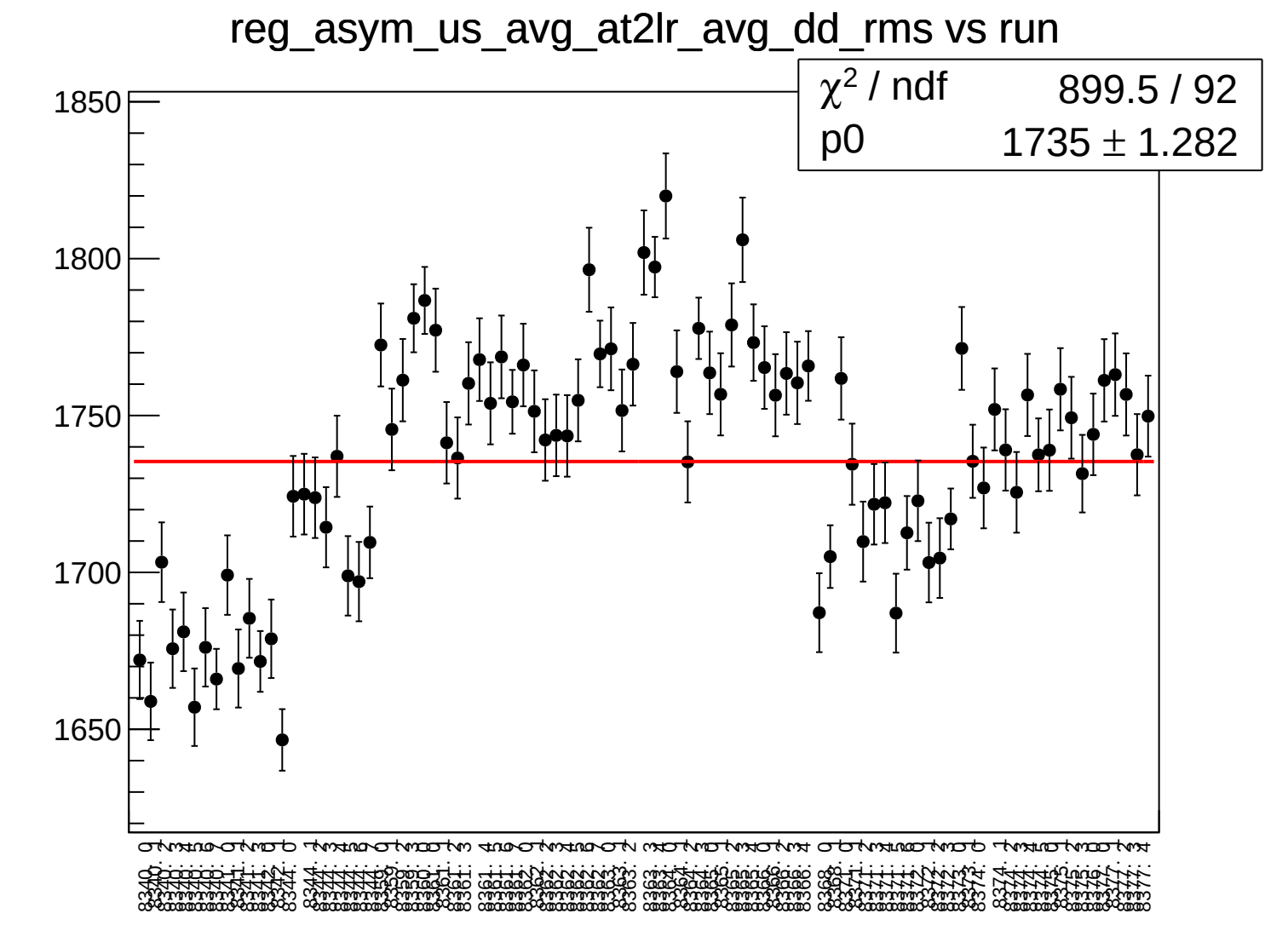

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.552e+04 / 92
p0 281.3 ± 0.2092
380
360
340
320
300
280
260
240
220
200
180

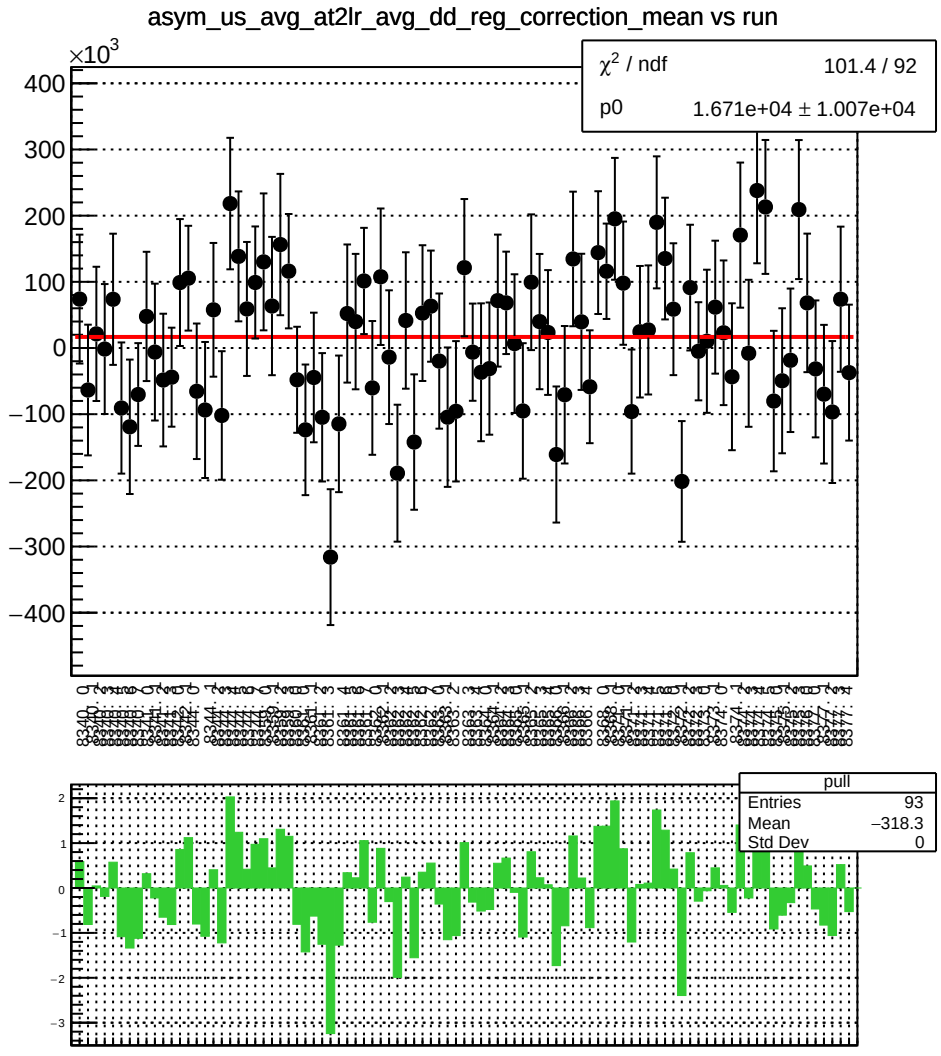

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 66.69 / 92
p0 −7.407e−14 ± 7.833e−13
0.2
0.15
0.1
0.05
0
−0.05
pull
Entries 93
Mean 40.44
Std Dev 28.08
2
1
0
−1
−2

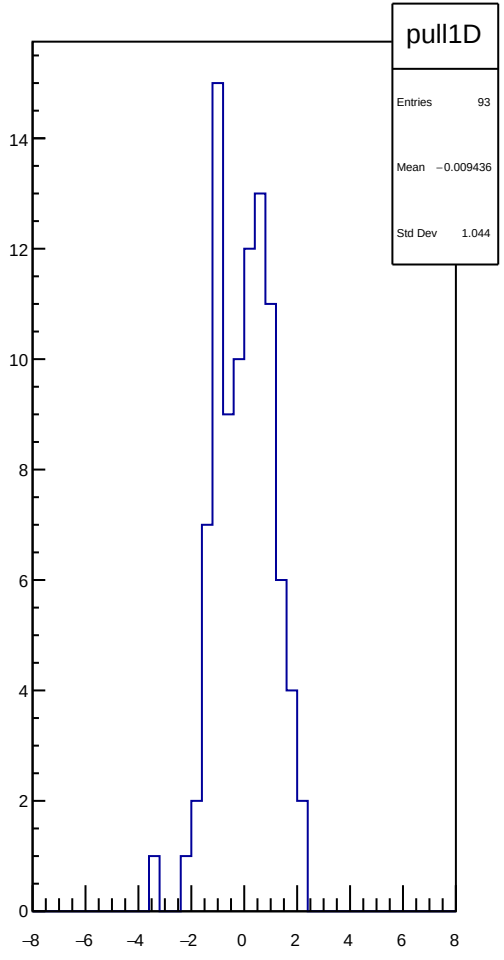

pull1D
Entries 93
Mean −0.09447
Std Dev 0.8416
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

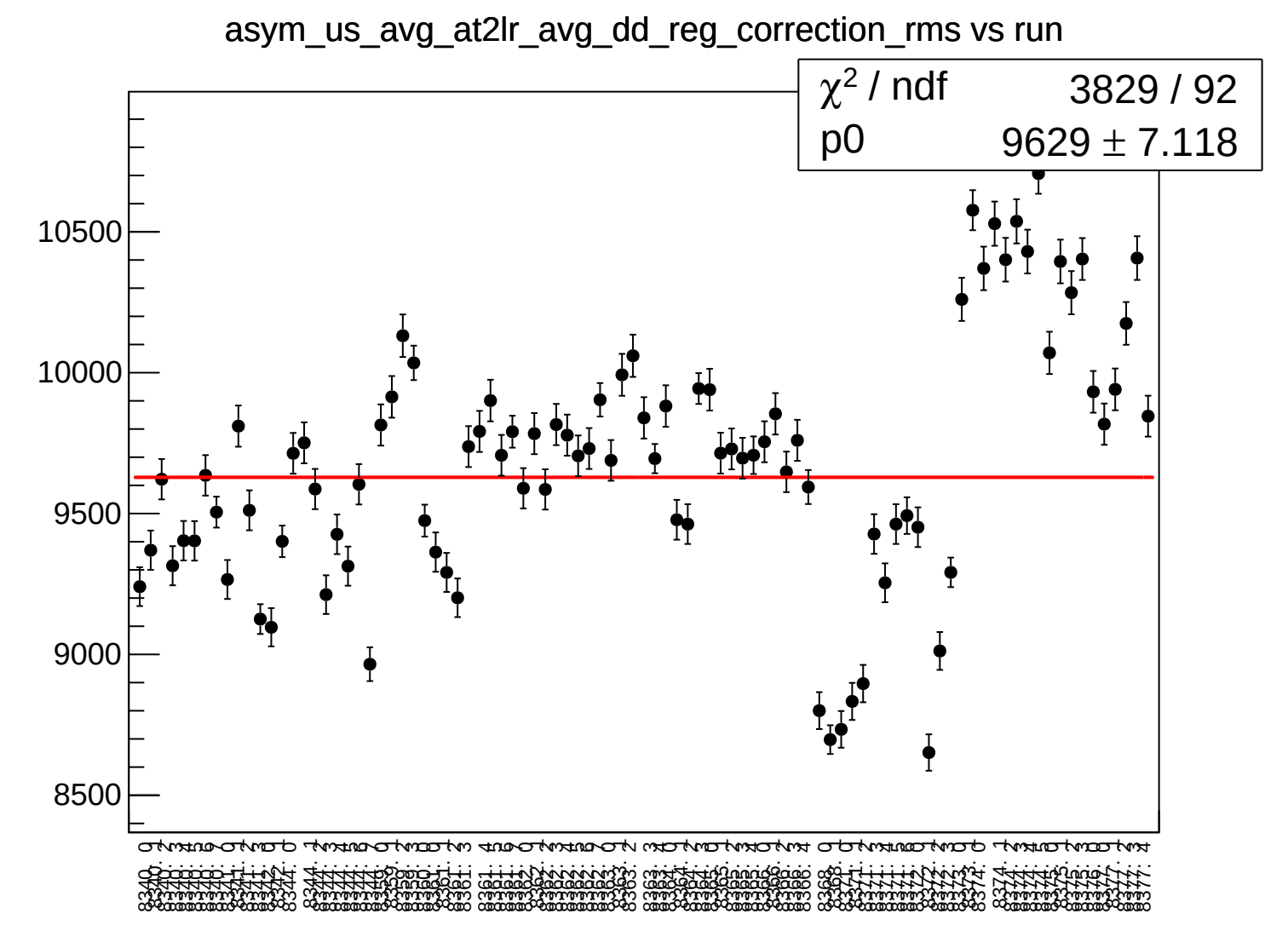

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.161e+05 / 92
p0 5.587e−10 ± 5.539e−13
7
6
5
4
3
2
1

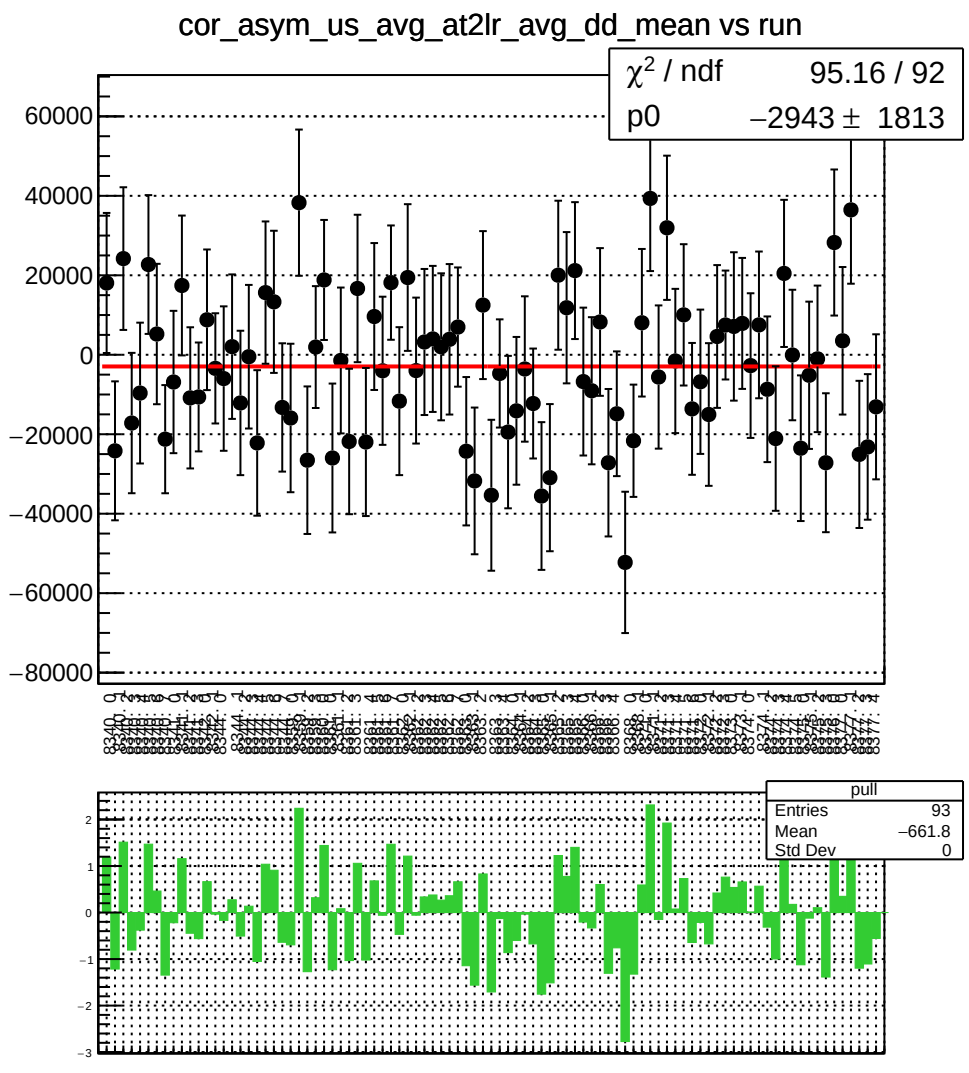

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.16 / 92
p0 −2943 ± 1813
pull
Entries 93
Mean −661.9
Std Dev 0
pull1D
Entries 93
Mean 0.001236
Std Dev 1.012

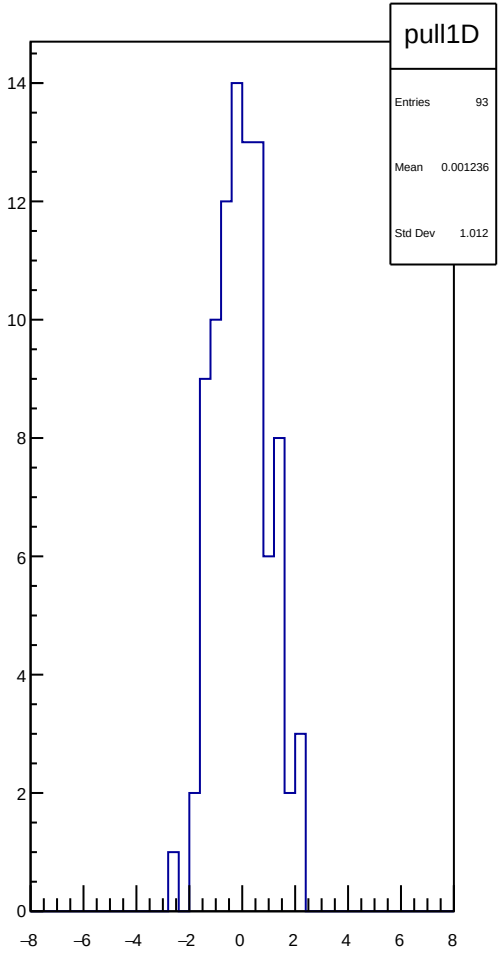

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 899.5 / 92
p0 1735 ± 1.282
1850
1800
1750
1700
1650

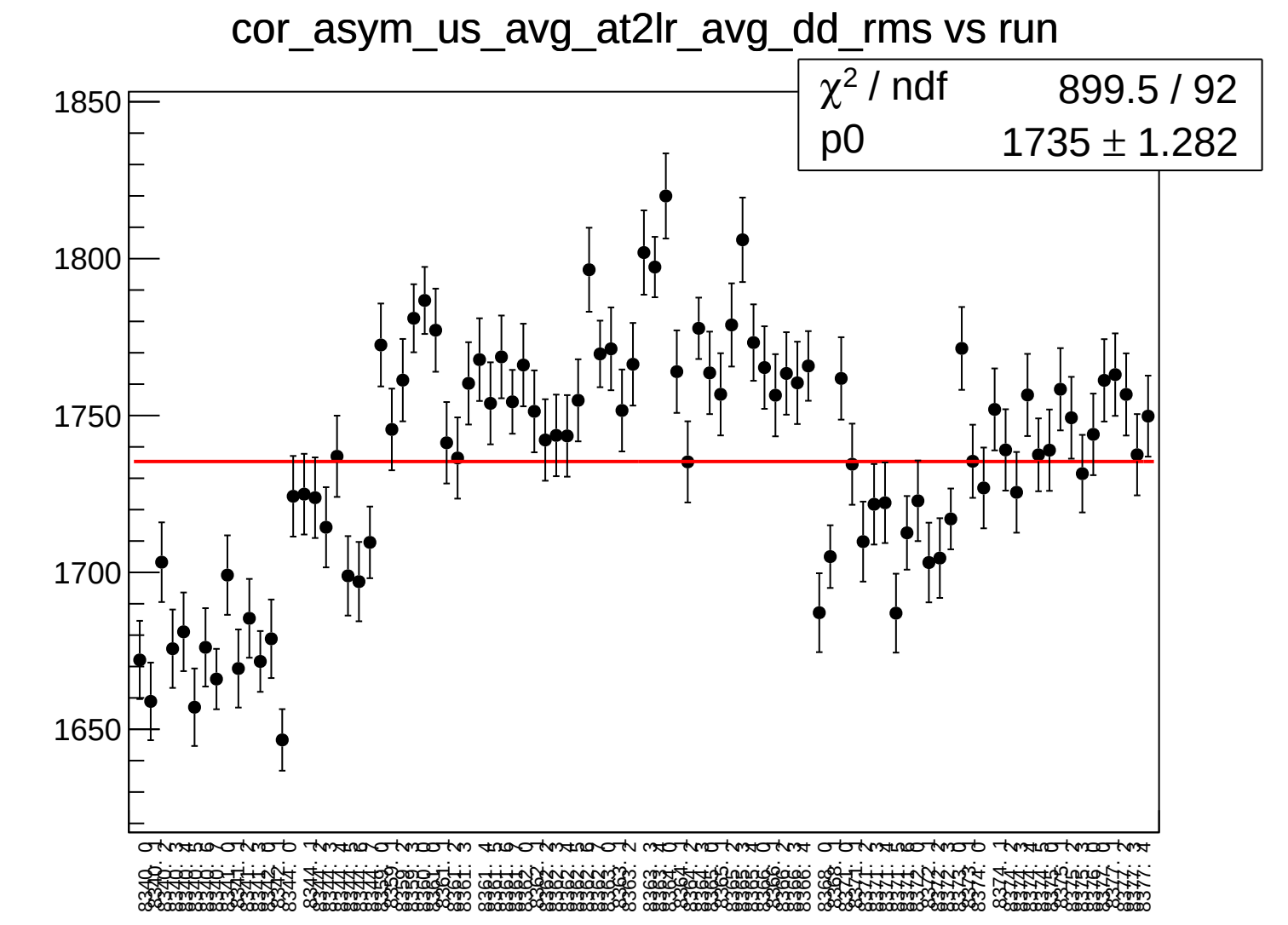

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 101.4 / 92
p0 1.671e+04 ± 1.007e+04
pull
Entries 93
Mean −318.3
Std Dev 0
2
1
0
−1
−2
−3

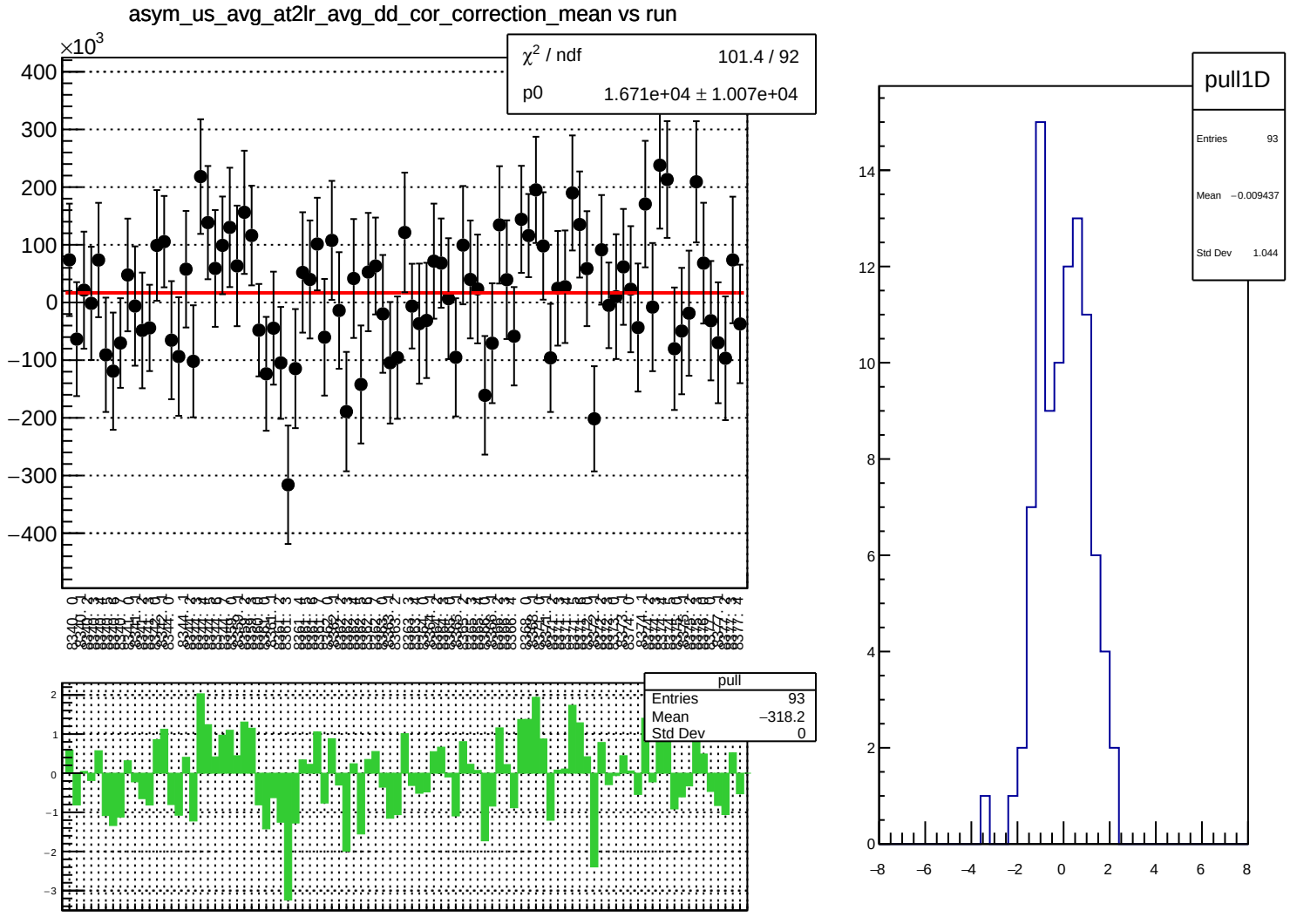

pull1D
Entries 93
Mean −0.009436
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

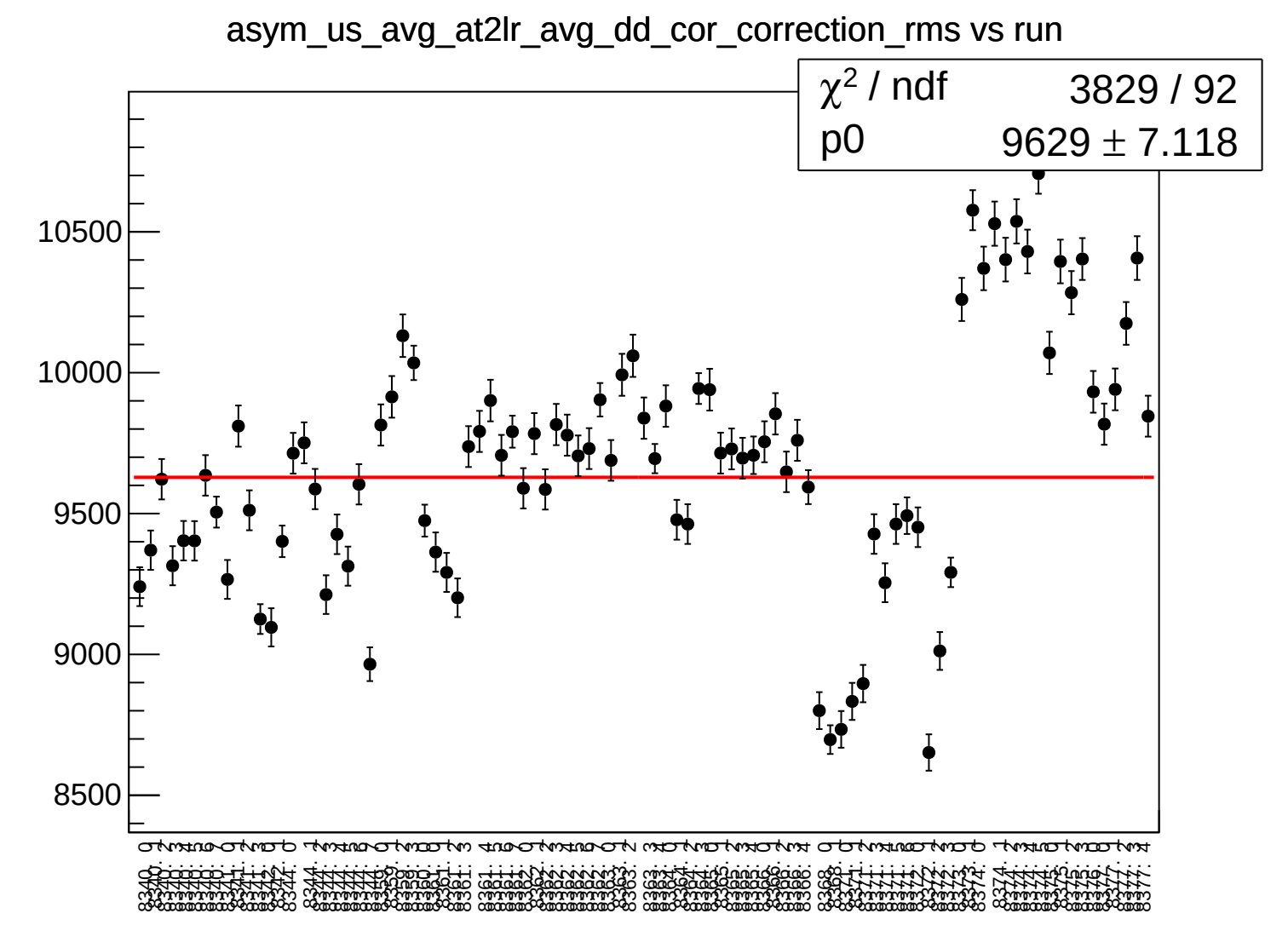

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3829 / 92
p0 9629 ± 7.118
10500
10000
9500
9000
8500

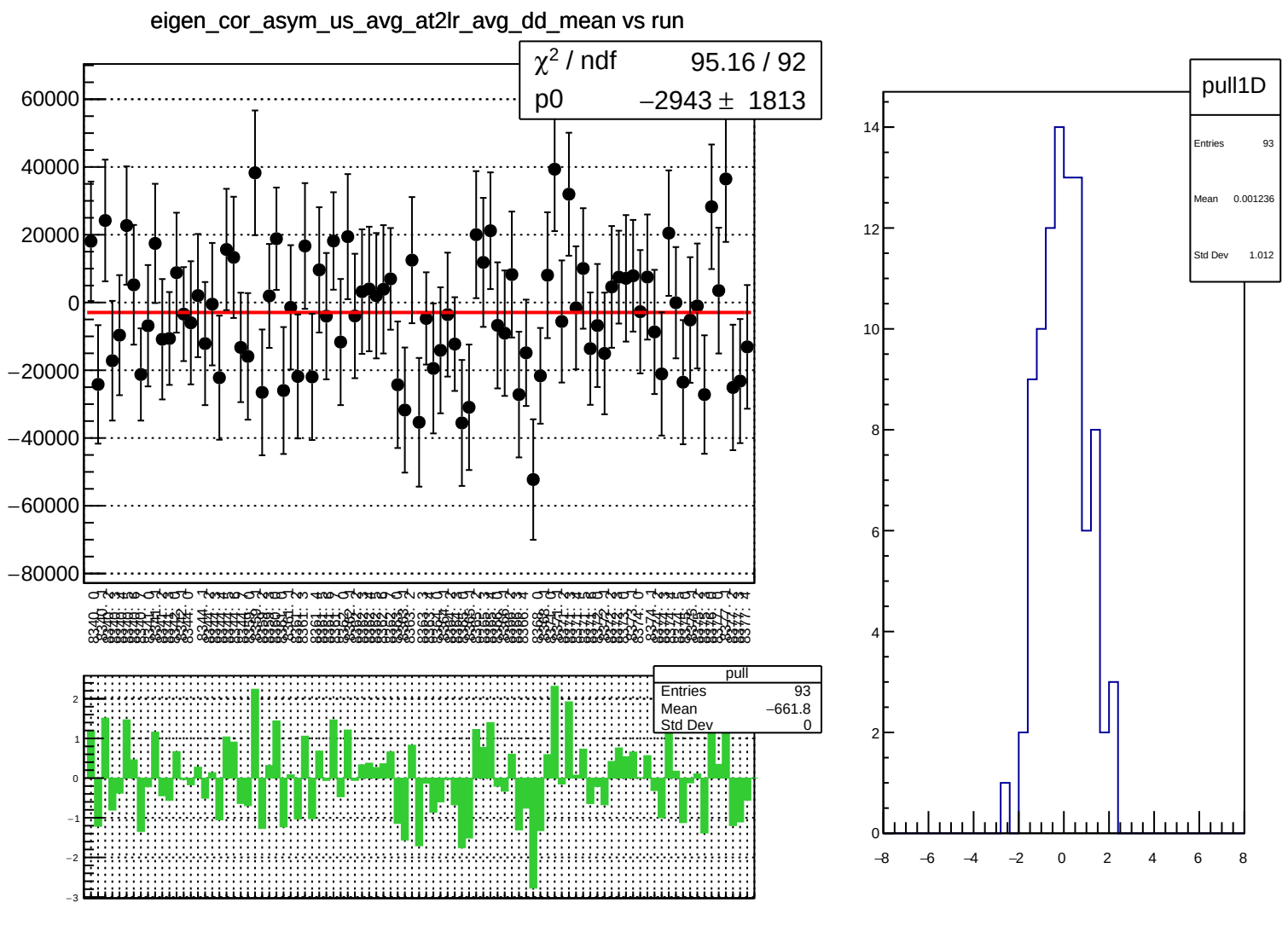

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.16 / 92
p0 −2943 ± 1813
pull
Entries 93
Mean −661.8
Std Dev 0

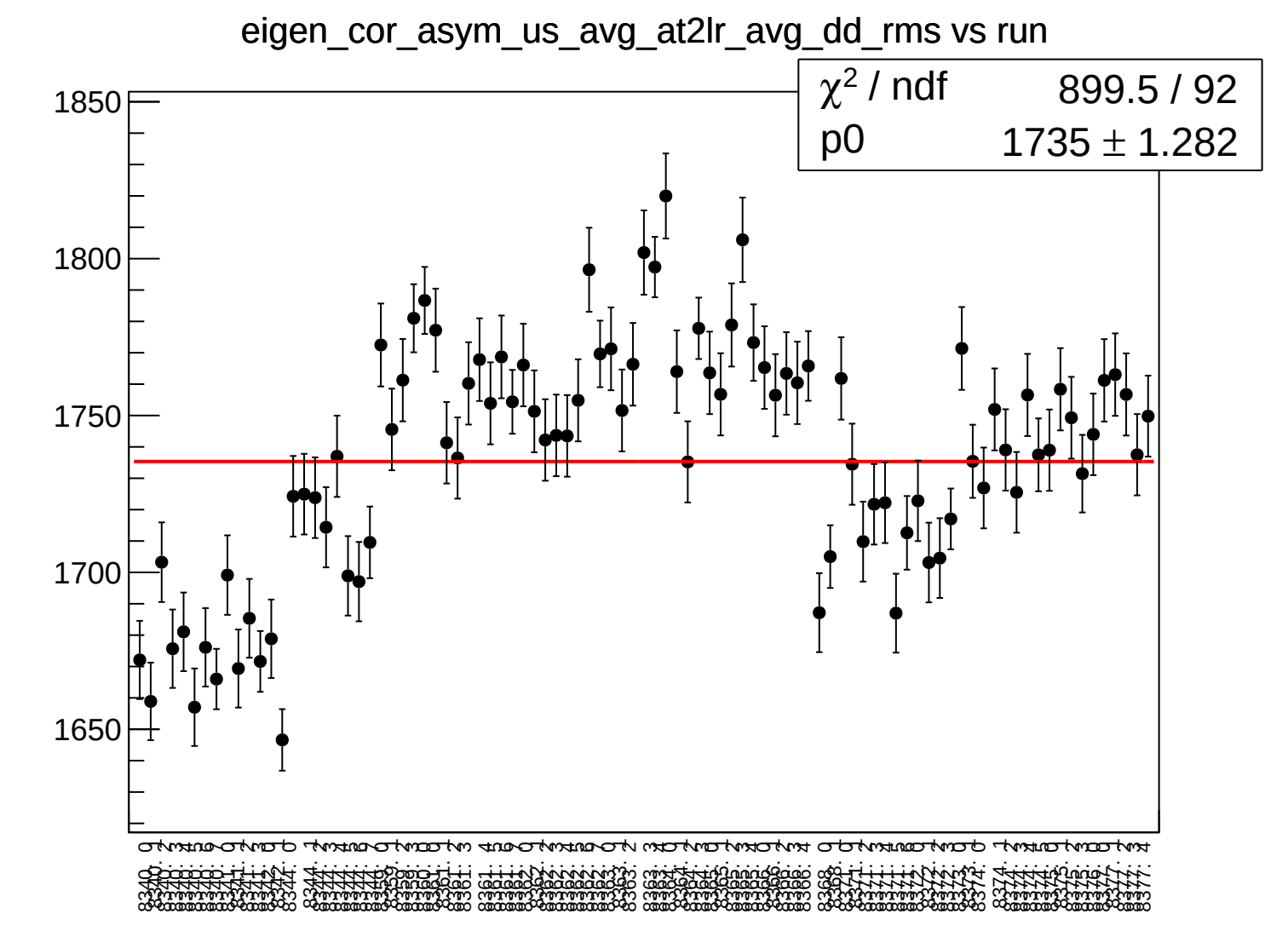

pull1D
Entries 93
Mean 0.001236
Std Dev 1.012

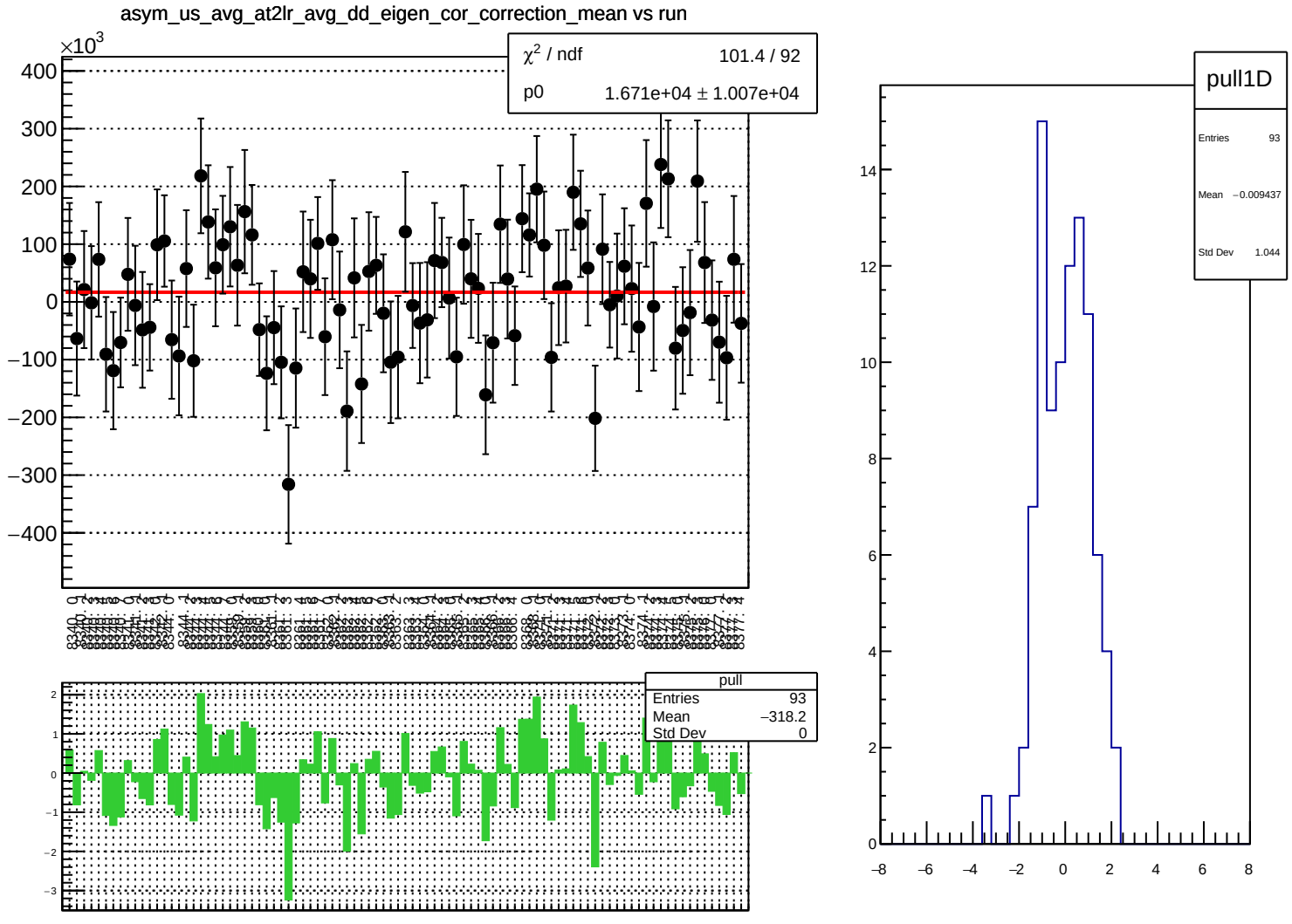

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 899.5 / 92
p0 1735 ± 1.282
1850
1800
1750
1700
1650

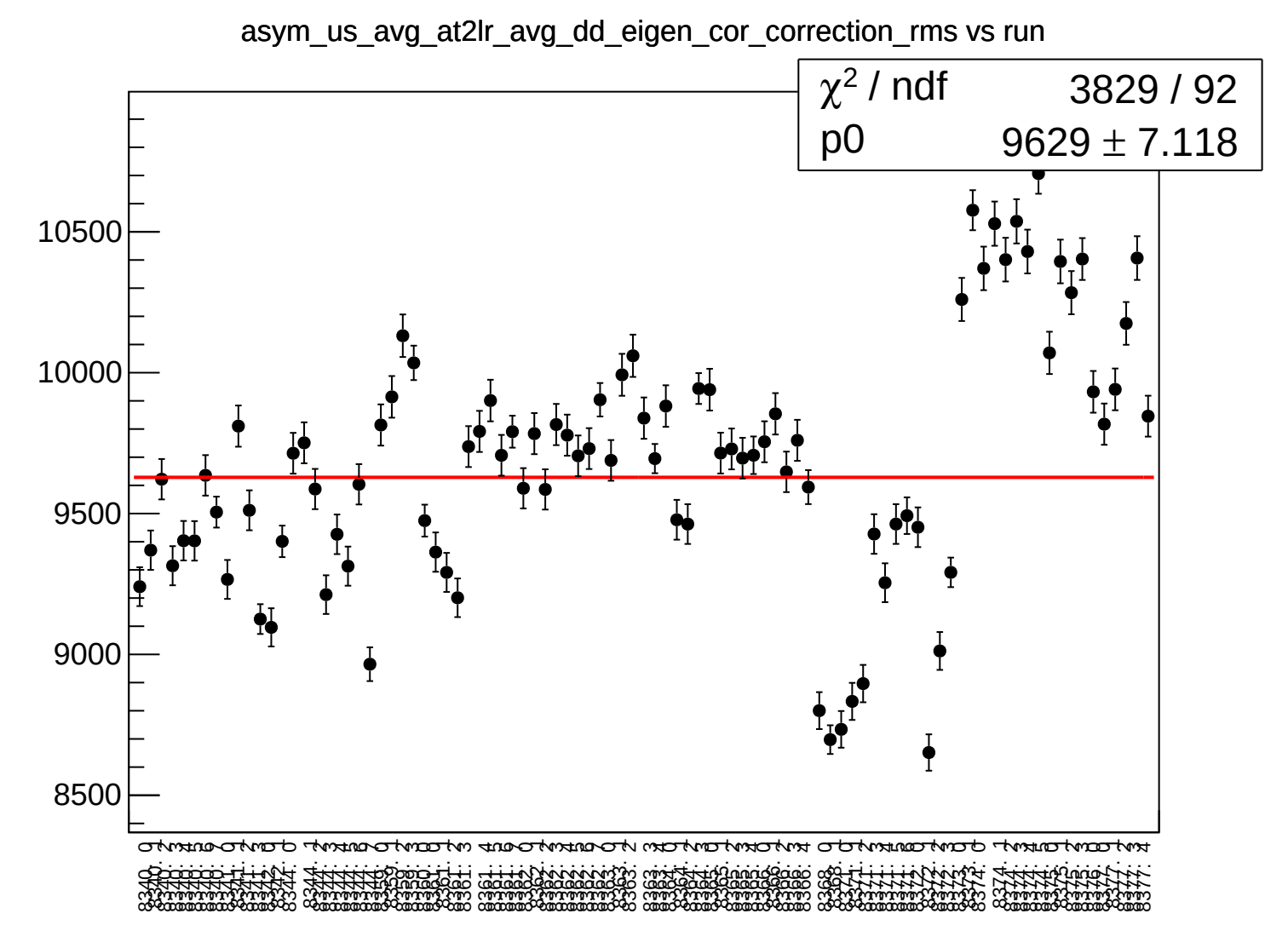

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 1.671e+04 ± 1.007e+04
pull
Entries 93
Mean −318.2
Std Dev 0
pull1D
Entries 93
Mean −0.009437
Std Dev 1.044

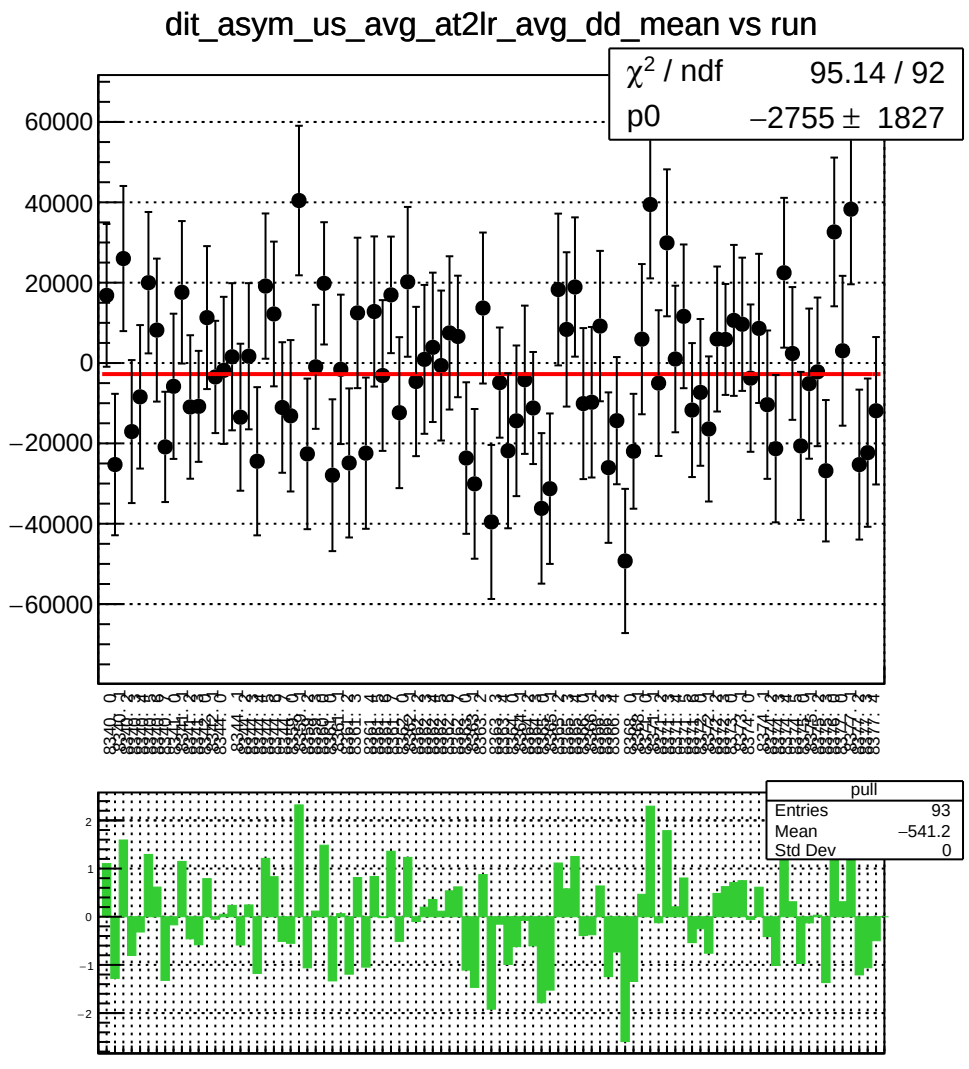

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 3829 / 92
p0 9629 ± 7.118
10500
10000
9500
9000
8500

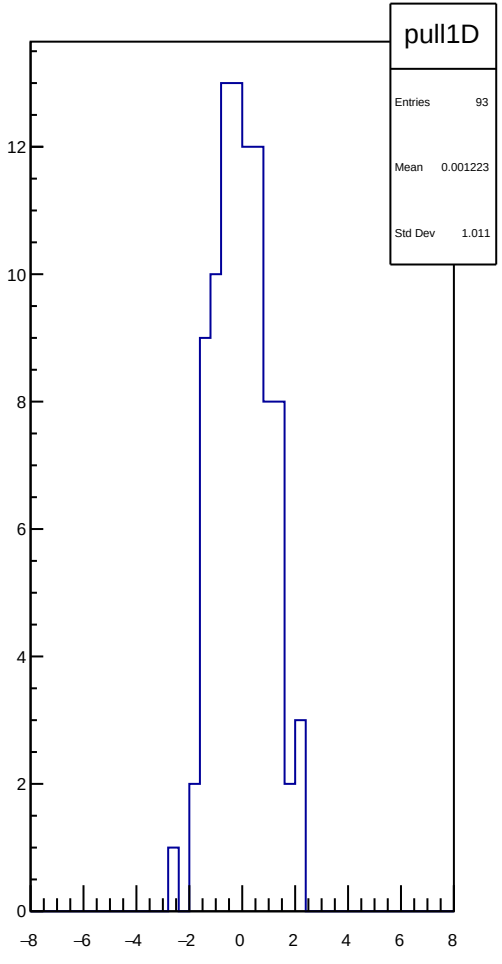

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.16 / 92
p0 −2943 ± 1813
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −661.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001236
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

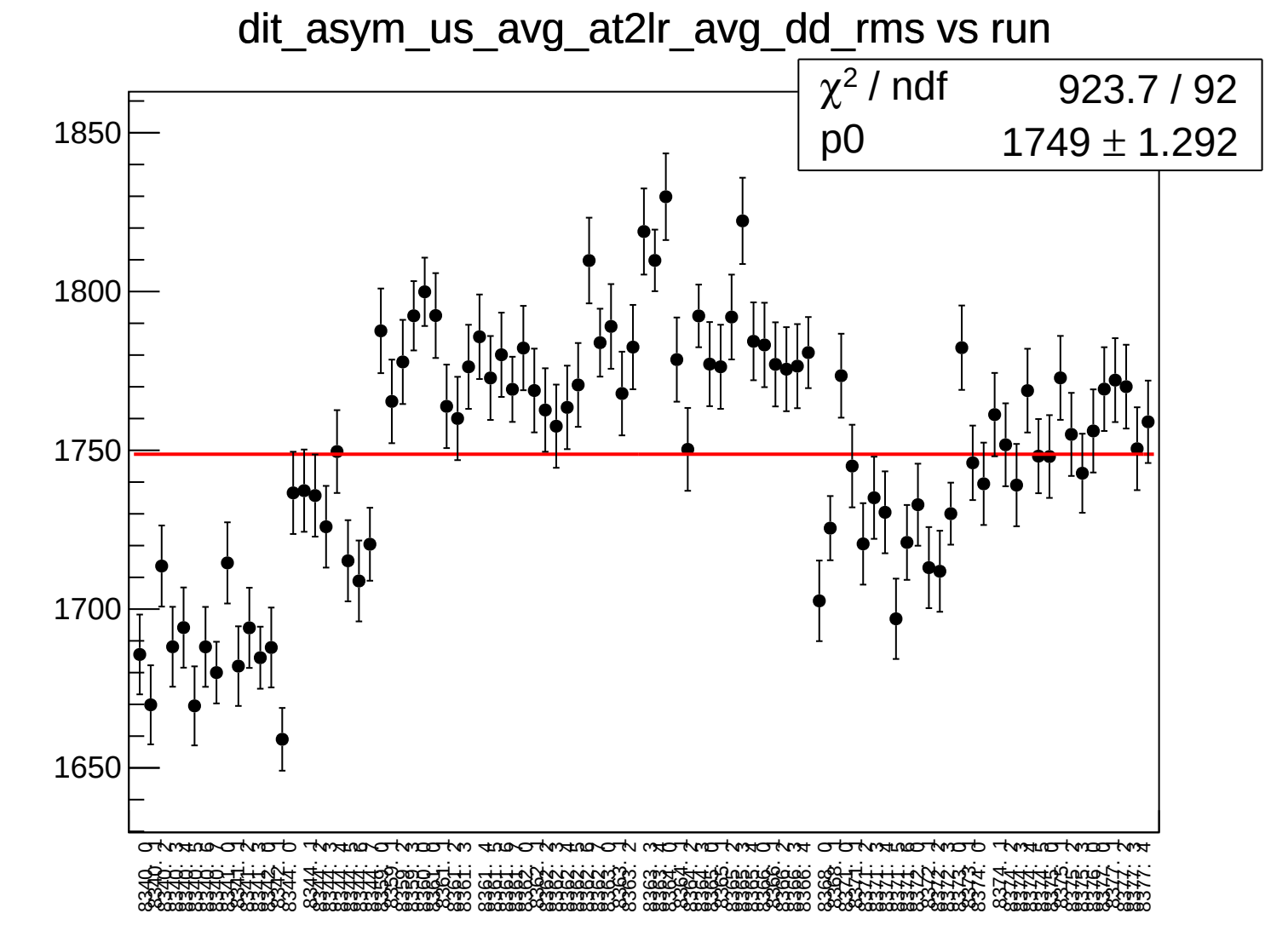

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 899.5 / 92
p0 1735 ± 1.282
1850
1800
1750
1700
1650

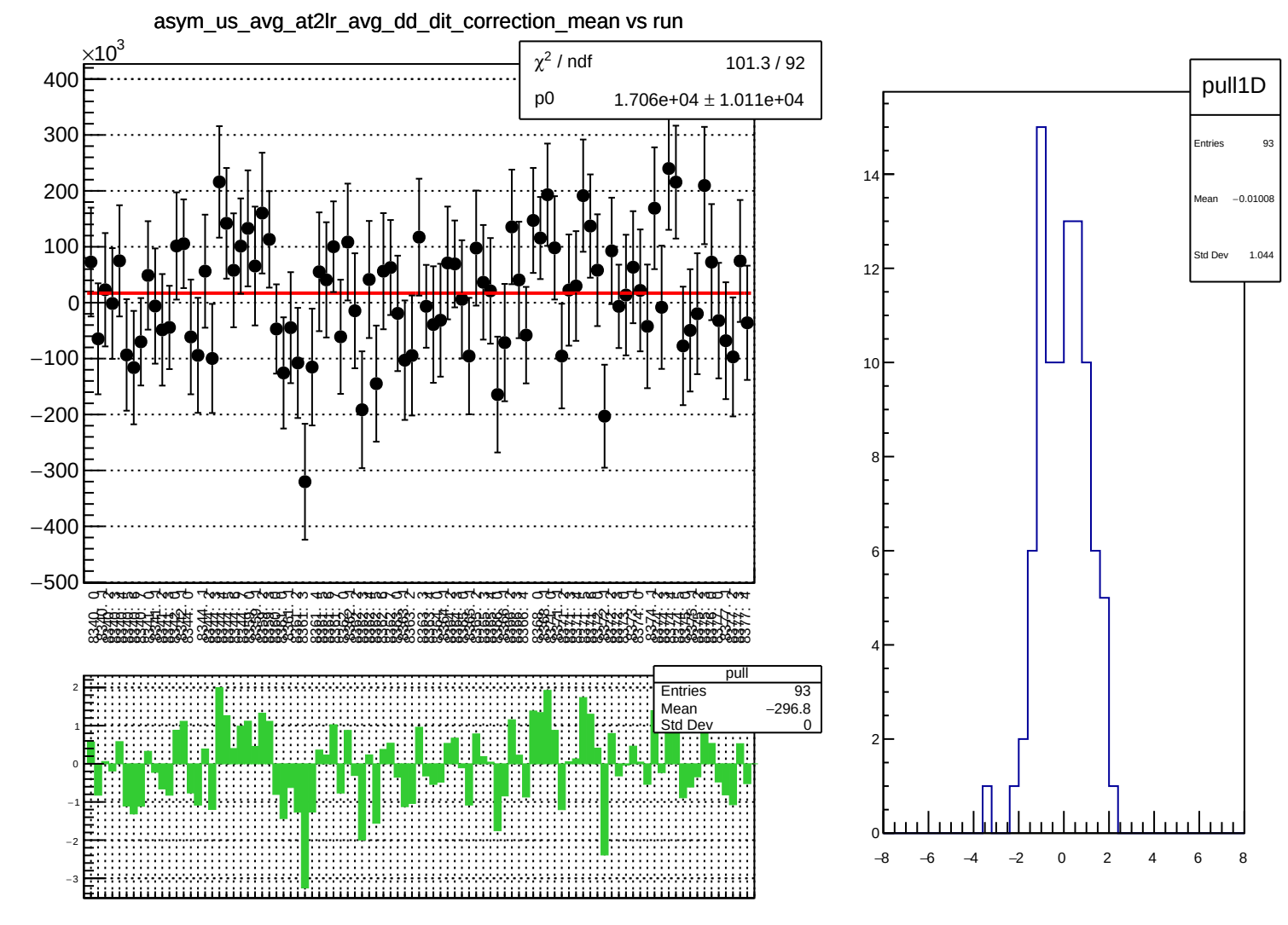

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.4 / 92
p0 1.671e+04 ± 1.007e+04
pull
Entries 93
Mean −318.2
Std Dev 0
pull1D
Entries 93
Mean −0.009437
Std Dev 1.044

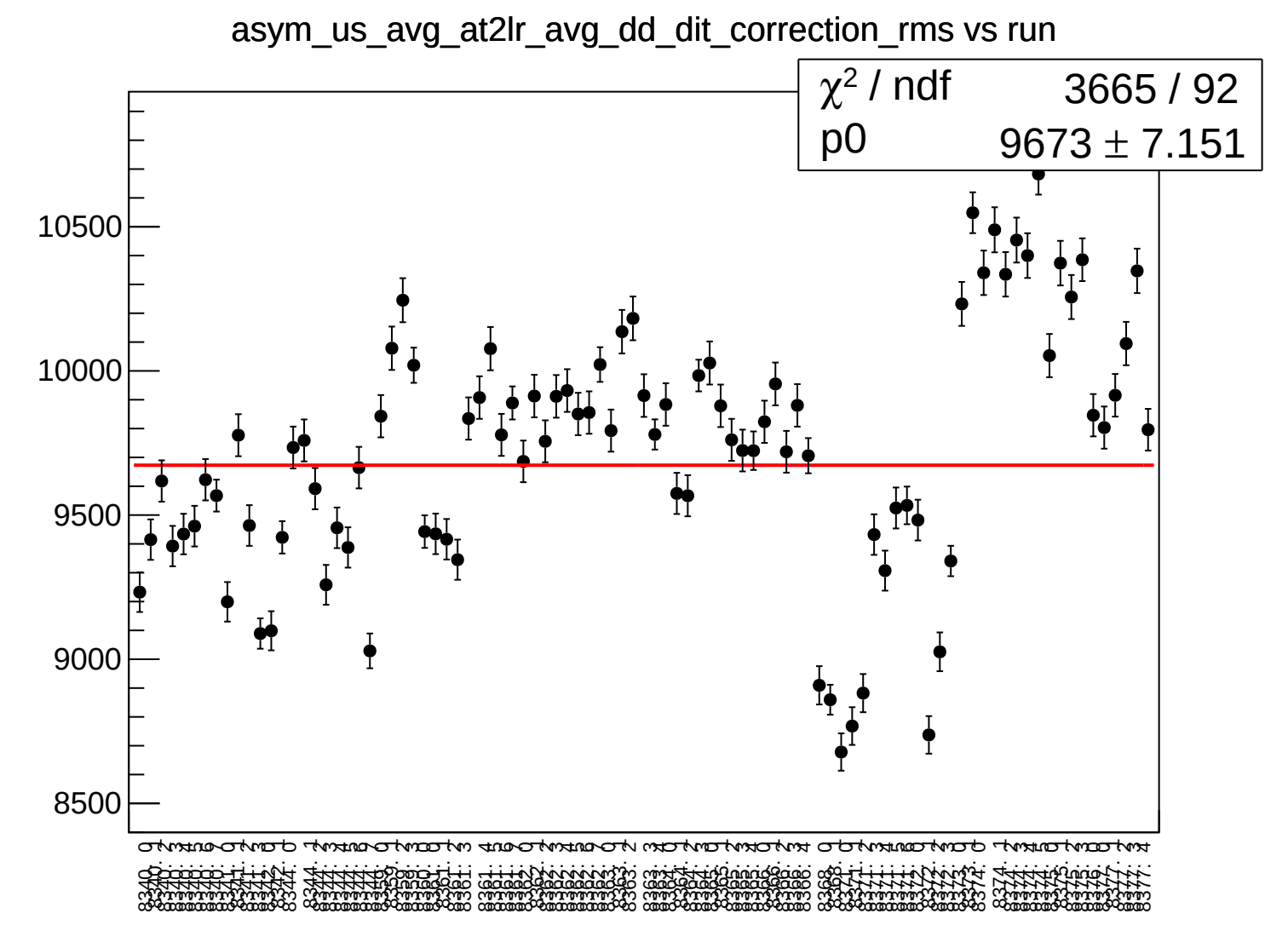

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3829 / 92
p0 9629 ± 7.118
10500
10000
9500
9000
8500

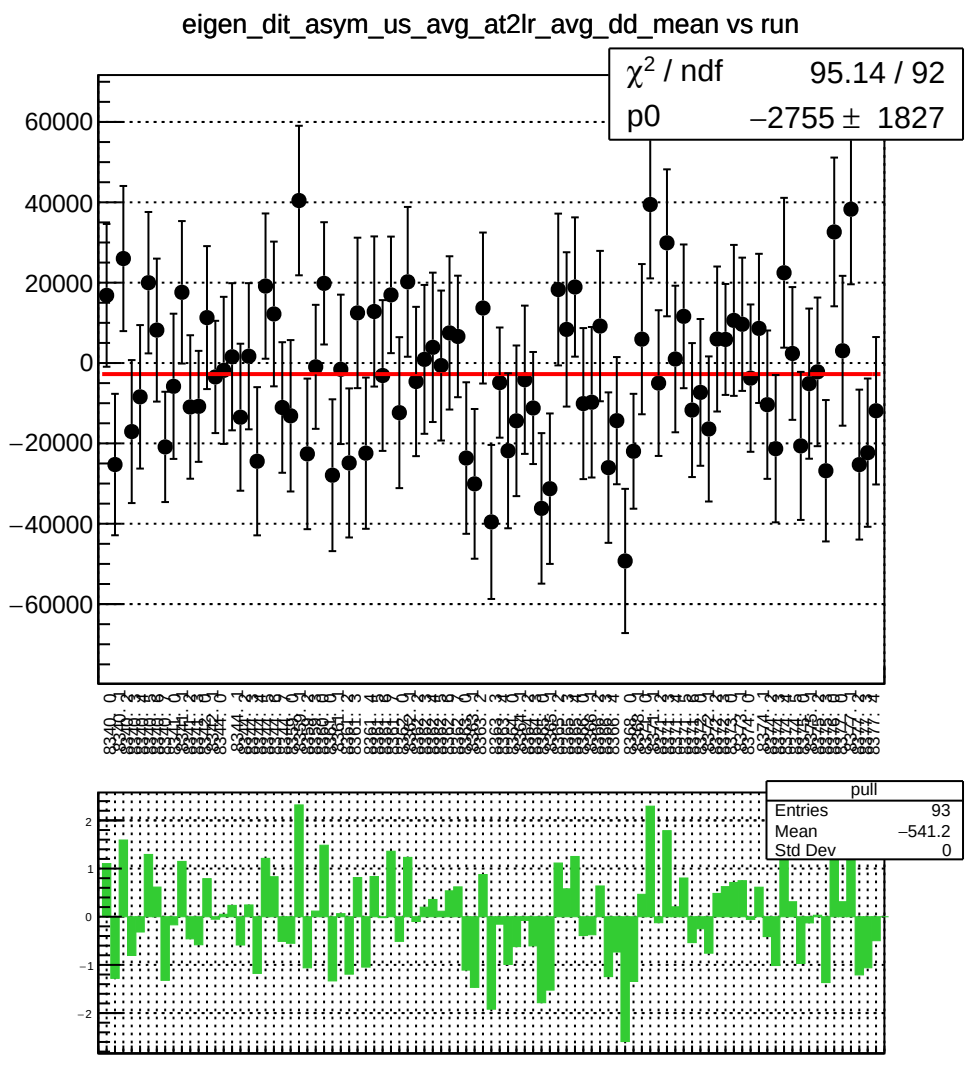

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.14 / 92
p0 −2755 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −541.2
Std Dev 0
2
1
0
−1
−2

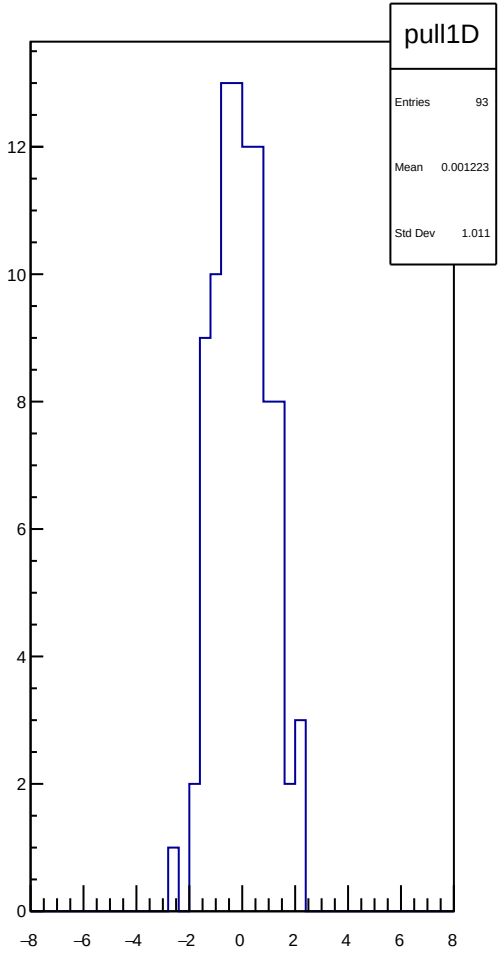

pull1D
Entries 93
Mean 0.001223
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

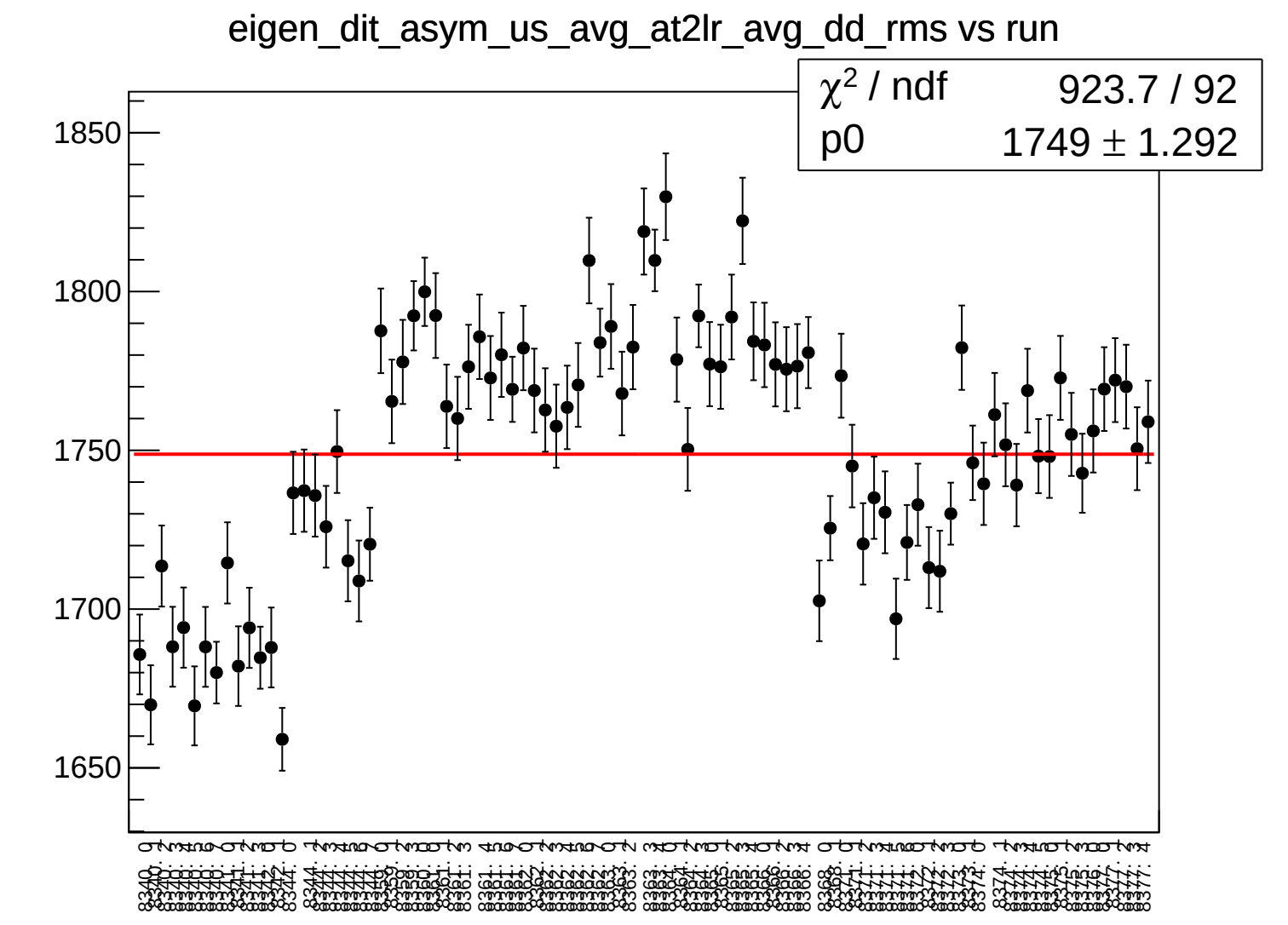

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 923.7 / 92
p0 1749 ± 1.292
1850
1800
1750
1700
1650

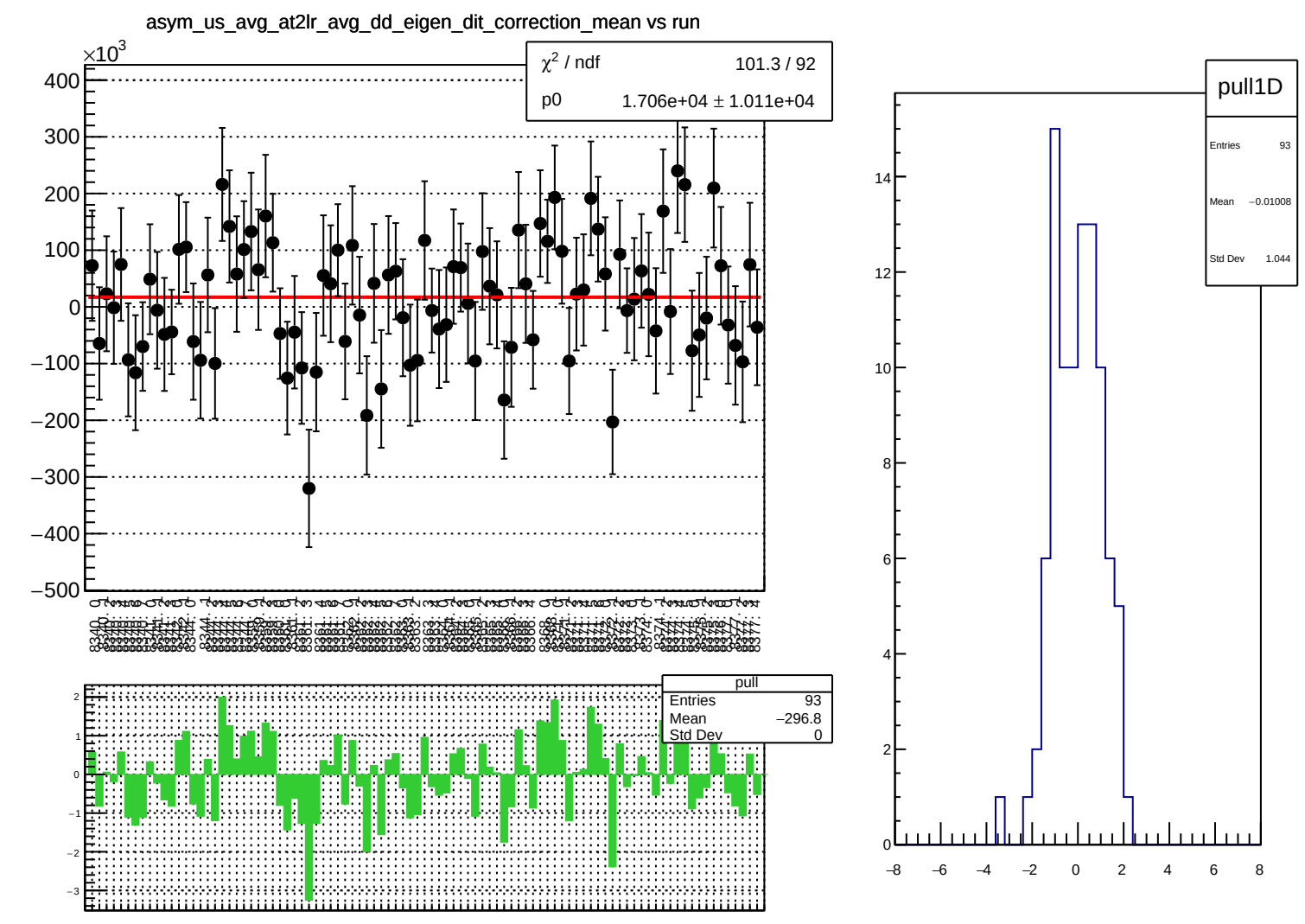

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 1.706e+04 ± 1.011e+04
pull
Entries 93
Mean −296.8
Std Dev 0
pull1D
Entries 93
Mean −0.01008
Std Dev 1.044

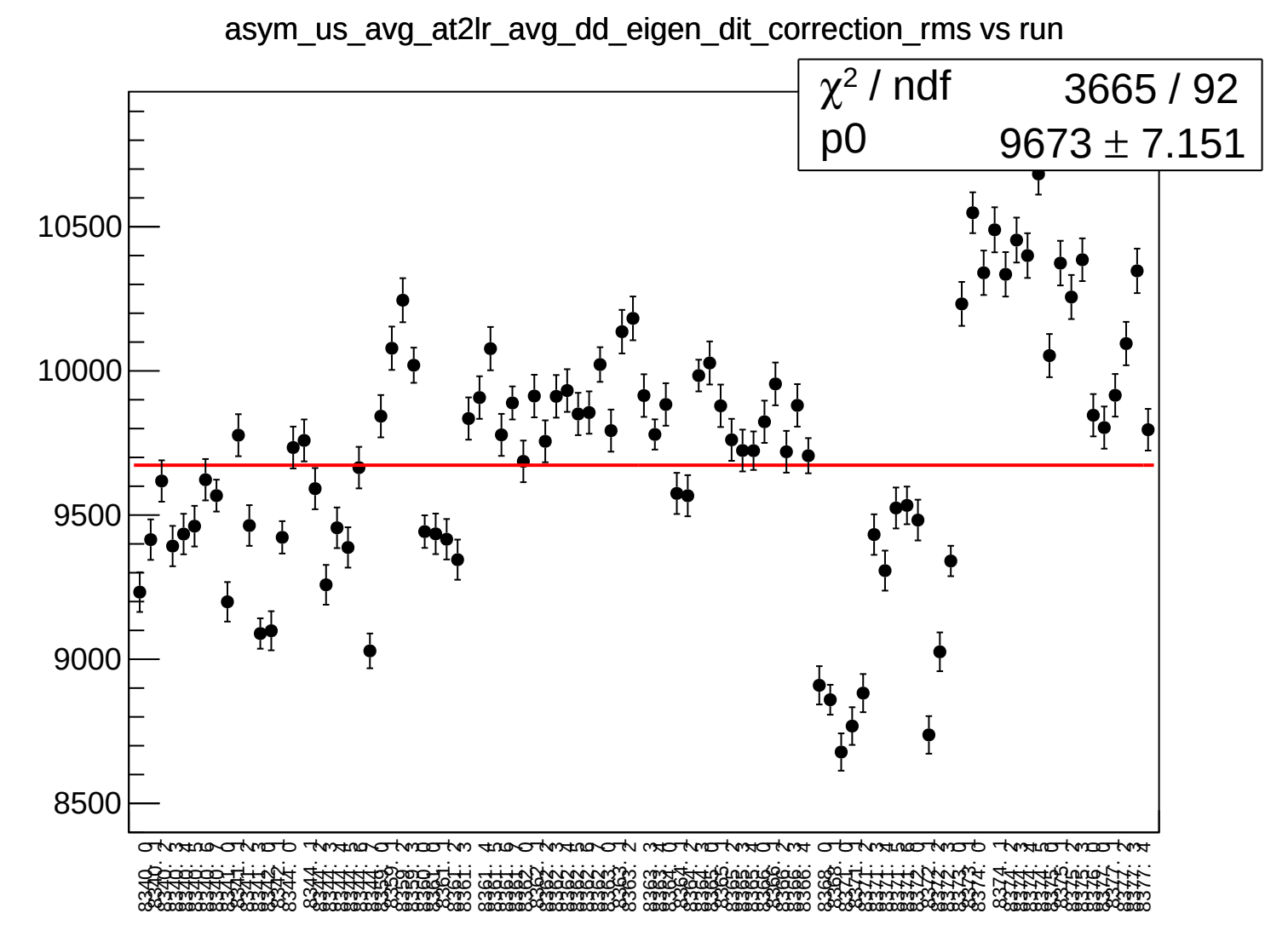

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 3665 / 92
p0 9673 ± 7.151
10500
10000
9500
9000
8500

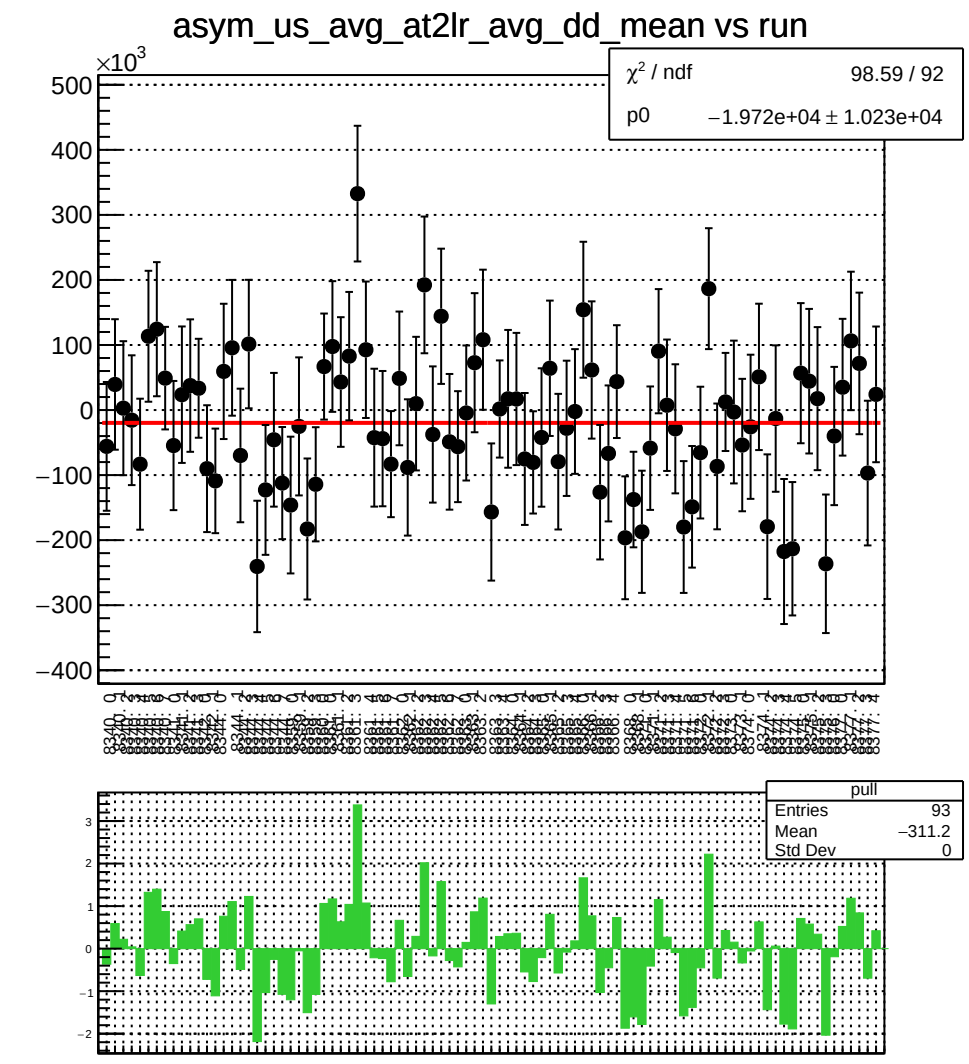

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 95.14 / 92
p0 −2755 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −541.2
Std Dev 0
2
1
0
−1
−2

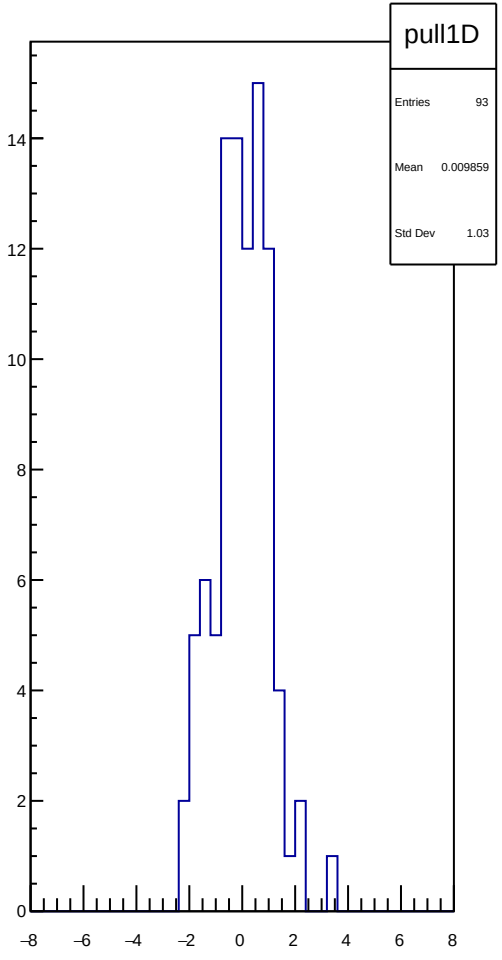

pull1D
Entries 93
Mean 0.001223
Std Dev 1.011
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

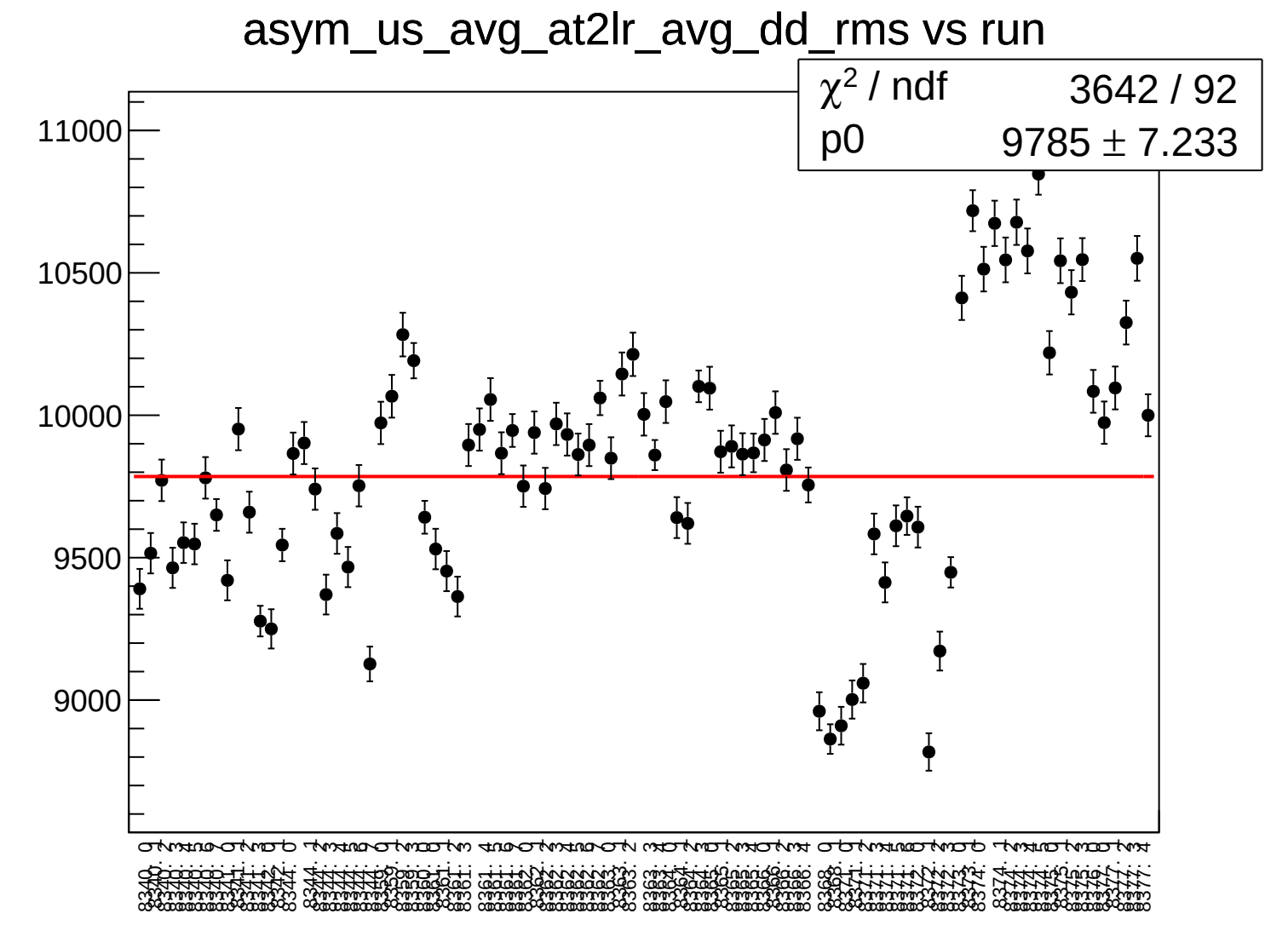

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 923.7 / 92
p0 1749 ± 1.292
1850
1800
1750
1700
1650

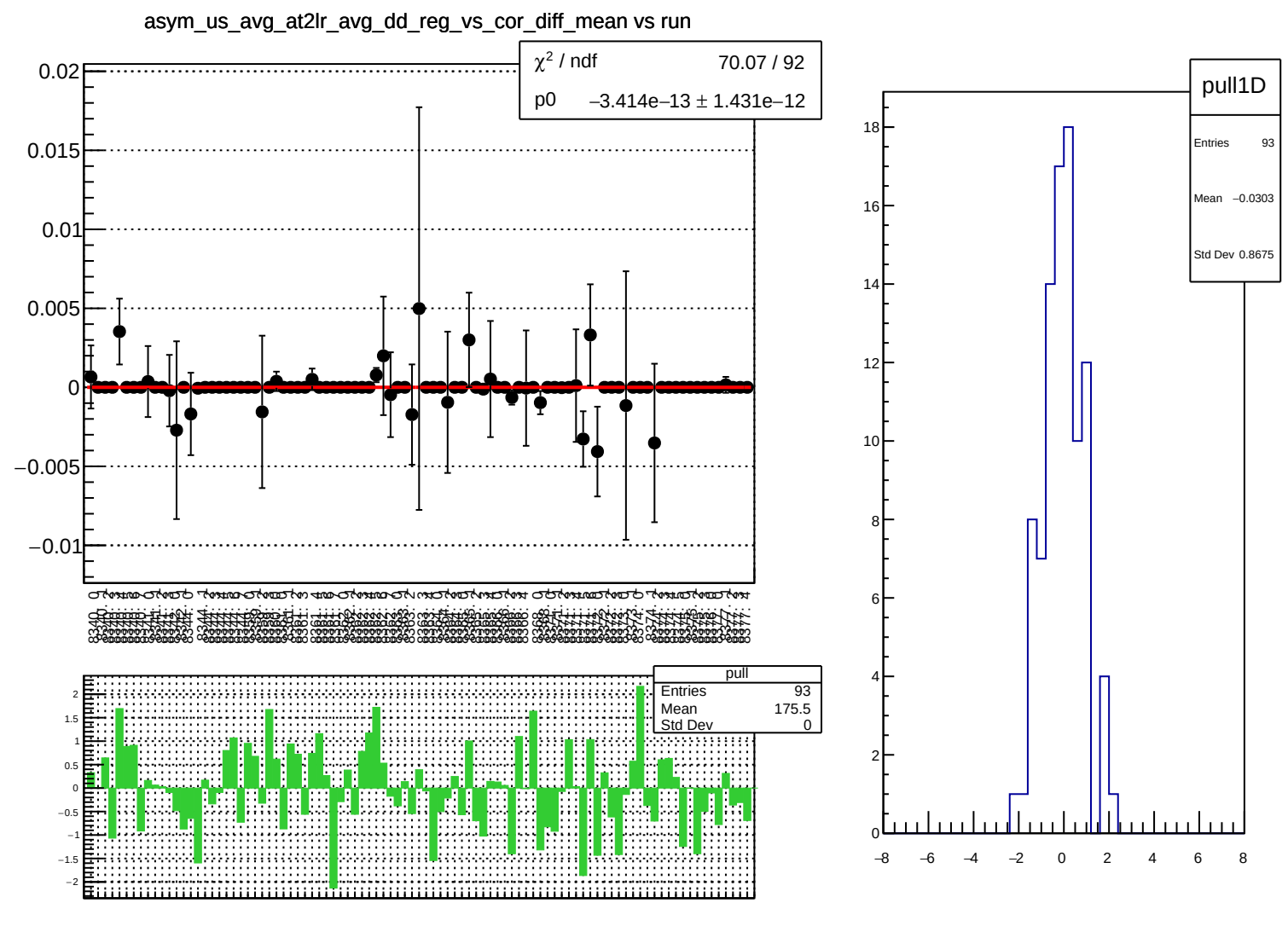

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 1.706e+04 ± 1.011e+04
pull
Entries 93
Mean −296.8
Std Dev 0
pull1D
Entries 93
Mean −0.01008
Std Dev 1.044

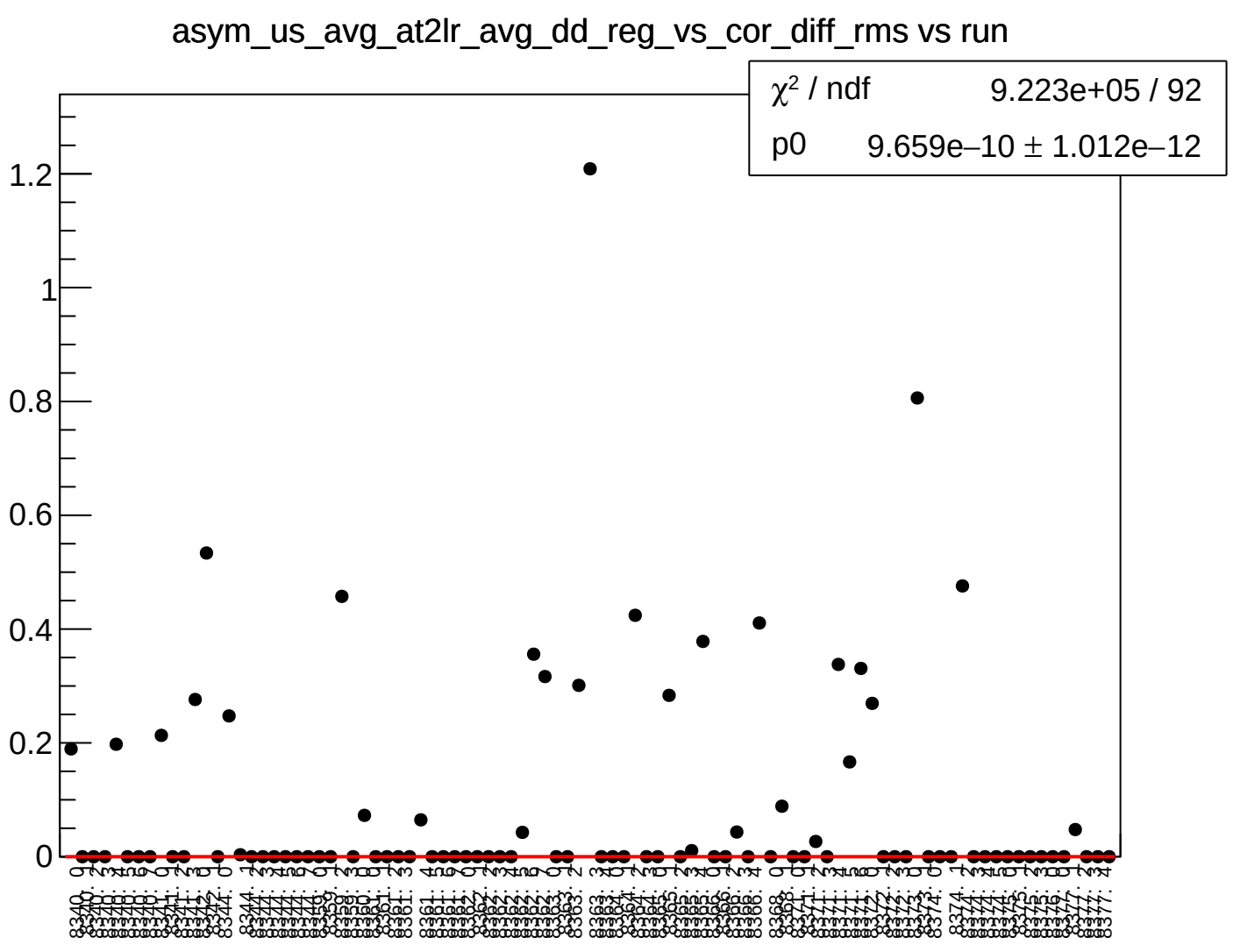

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3665 / 92
p0 9673 ± 7.151
10500
10000
9500
9000
8500

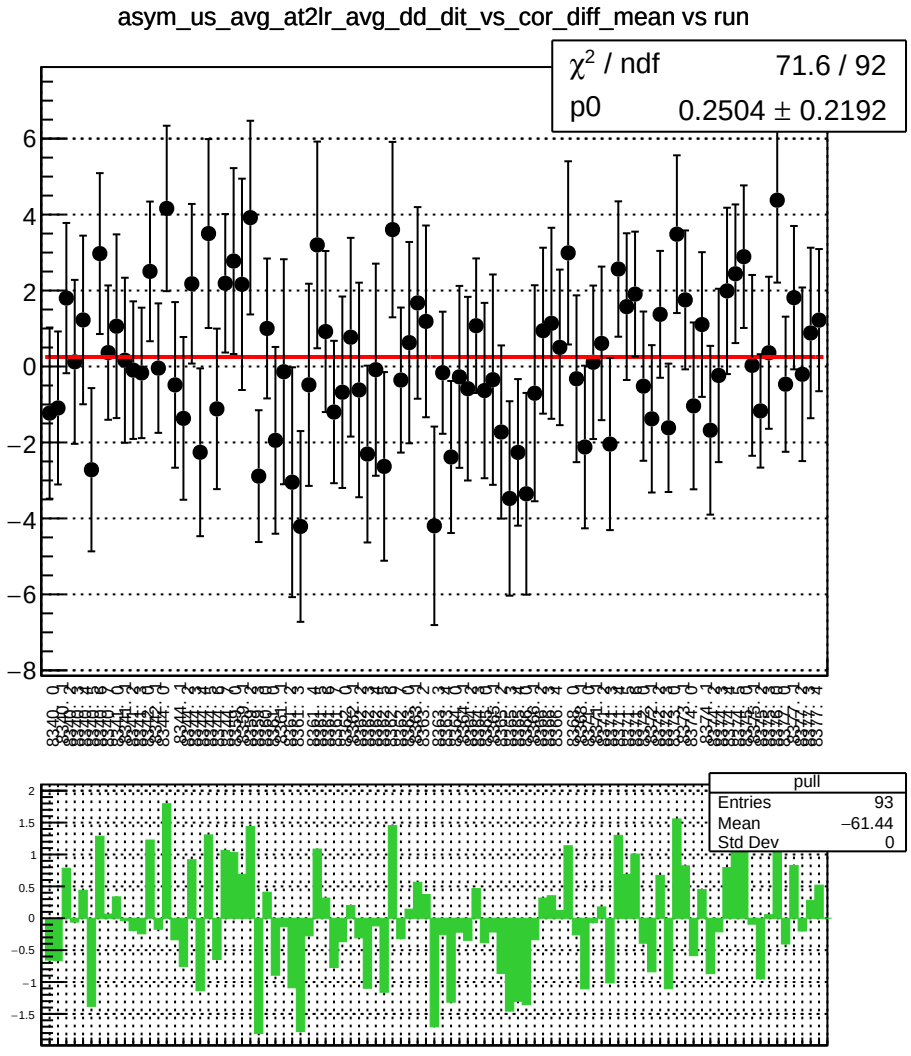

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 98.59 / 92
p0 −1.972e+04 ± 1.023e+04
pull
Entries 93
Mean −311.2
Std Dev 0

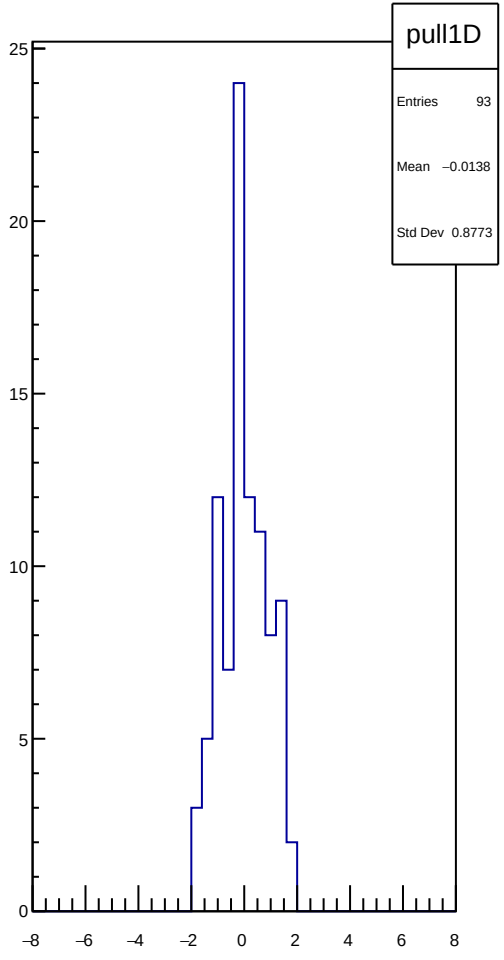

pull1D
Entries 93
Mean 0.009859
Std Dev 1.03

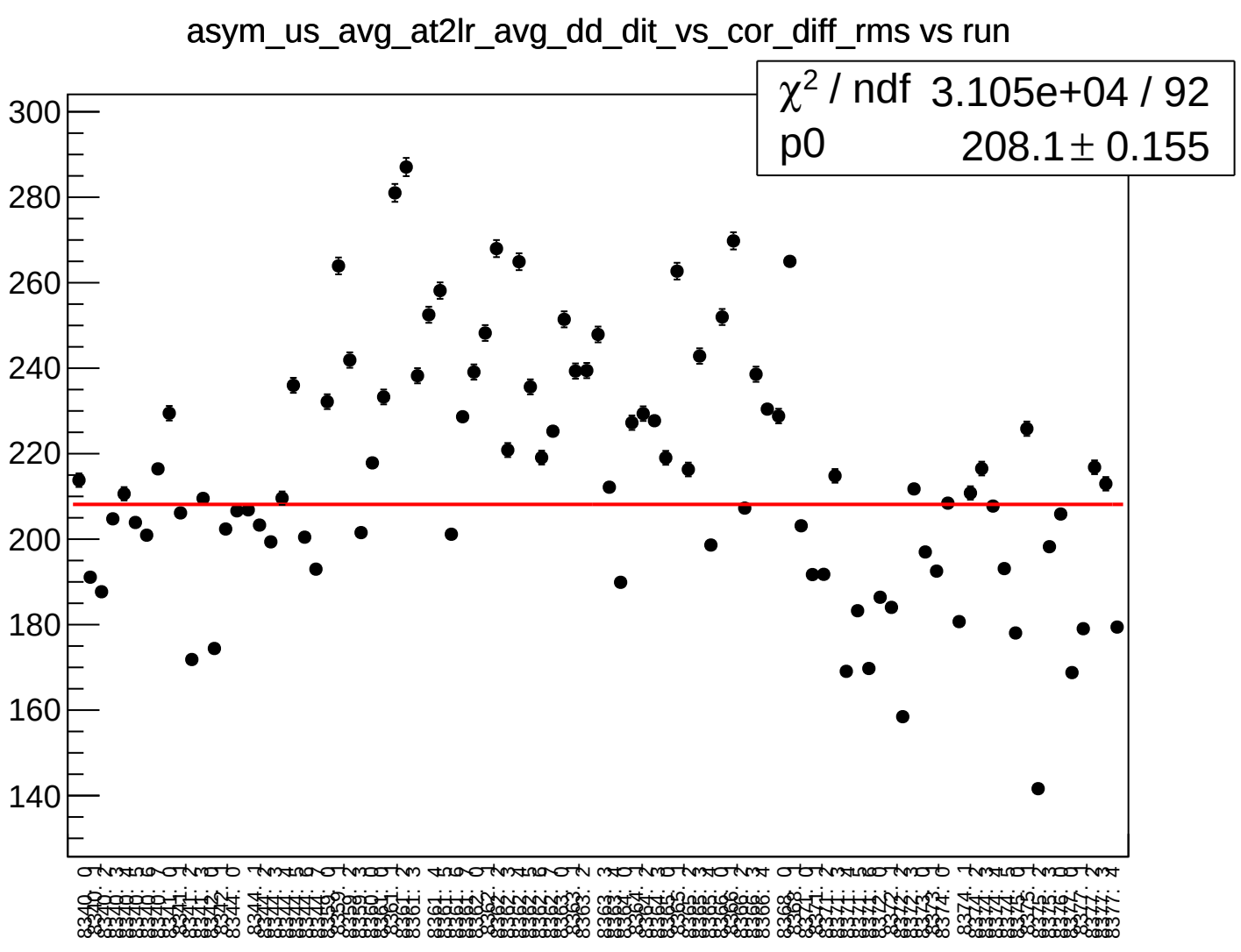

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3642 / 92
p0 9785 ± 7.233
11000
10500
10000
9500
9000

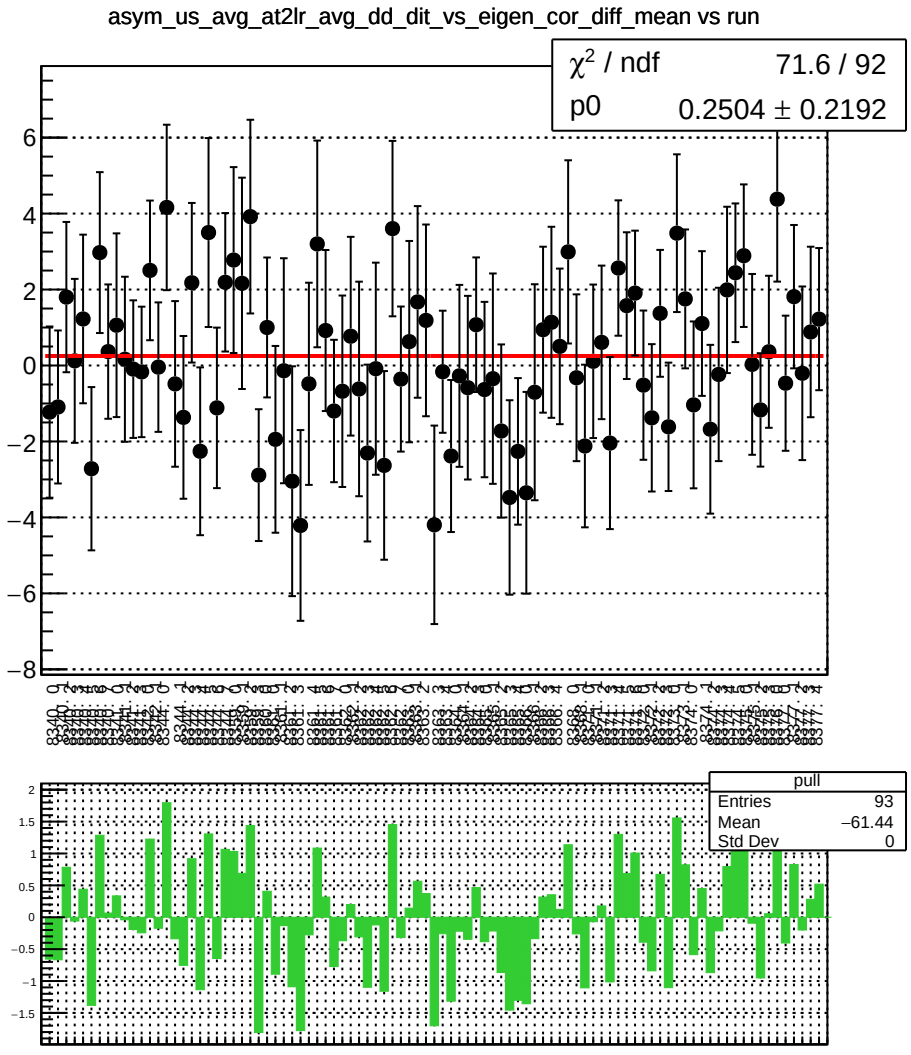

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.07 / 92
p0 −3.414e−13 ± 1.431e−12
pull
Entries 93
Mean 175.5
Std Dev 0
pull1D
Entries 93
Mean −0.0303
Std Dev 0.8675

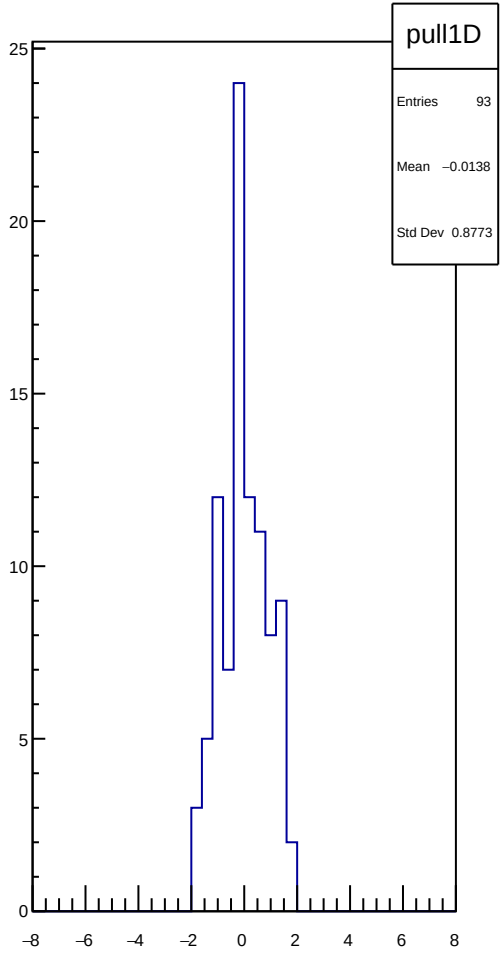

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.223e+05 / 92
p0 9.659e−10 ± 1.012e−12
1.2
1
0.8
0.6
0.4
0.2
0

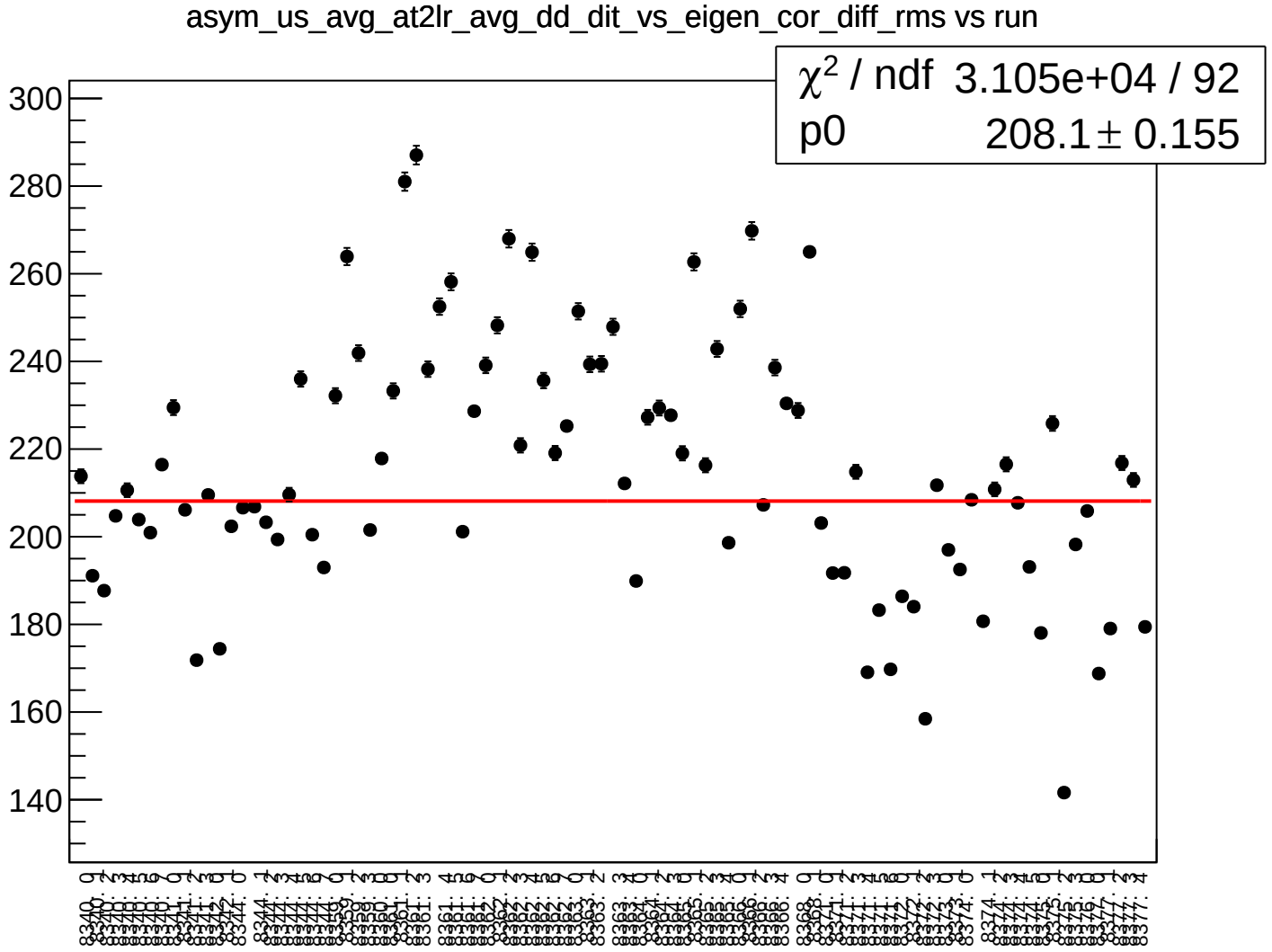

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.6 / 92
p0 0.2504 ± 0.2192
pull
Entries 93
Mean −61.44
Std Dev 0

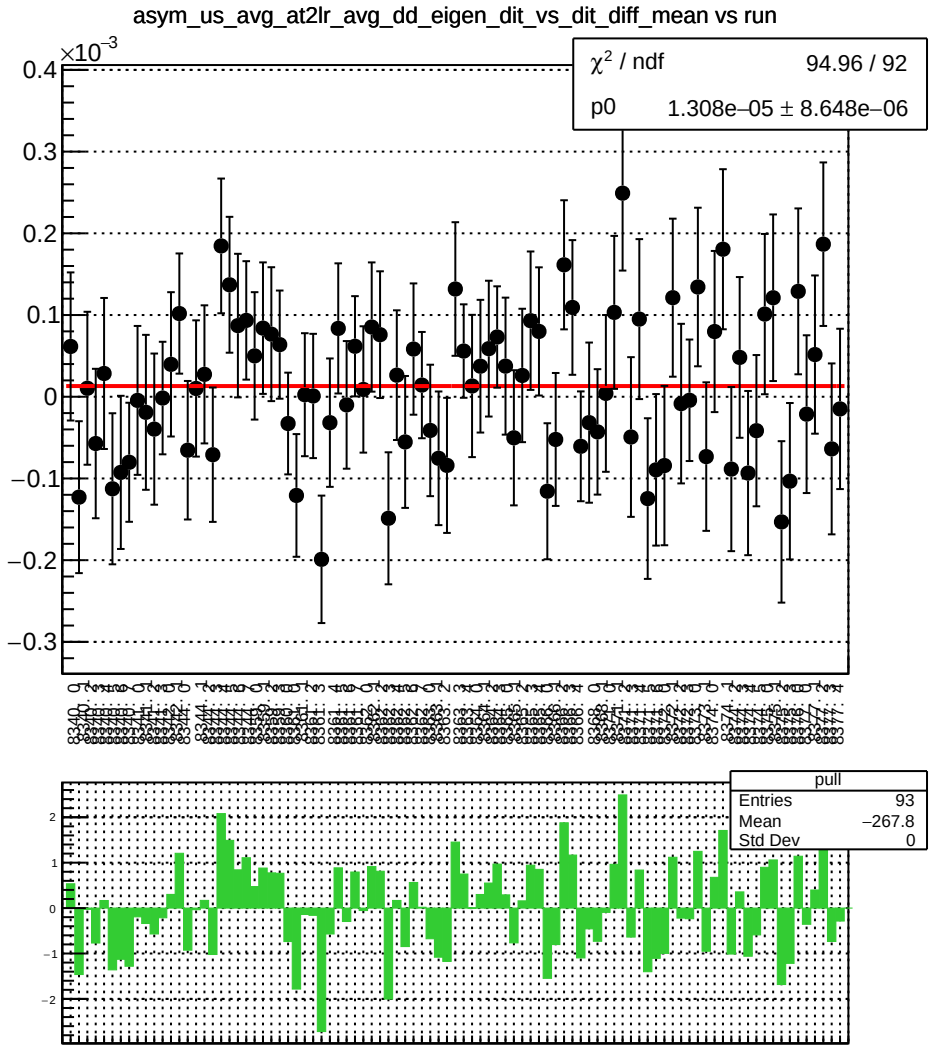

pull1D
Entries 93
Mean −0.0138
Std Dev 0.8773

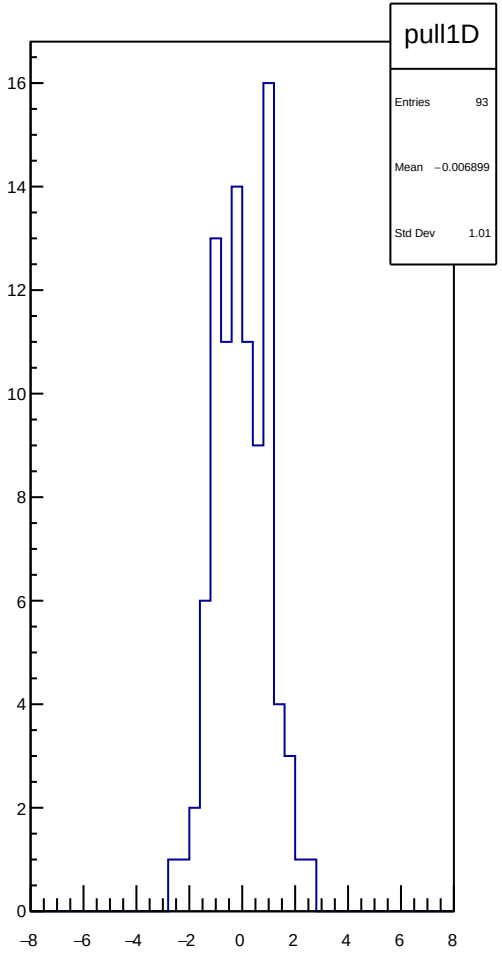

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.105e+04 / 92
p0 208.1 ± 0.155
300
280
260
240
220
200
180
160
140

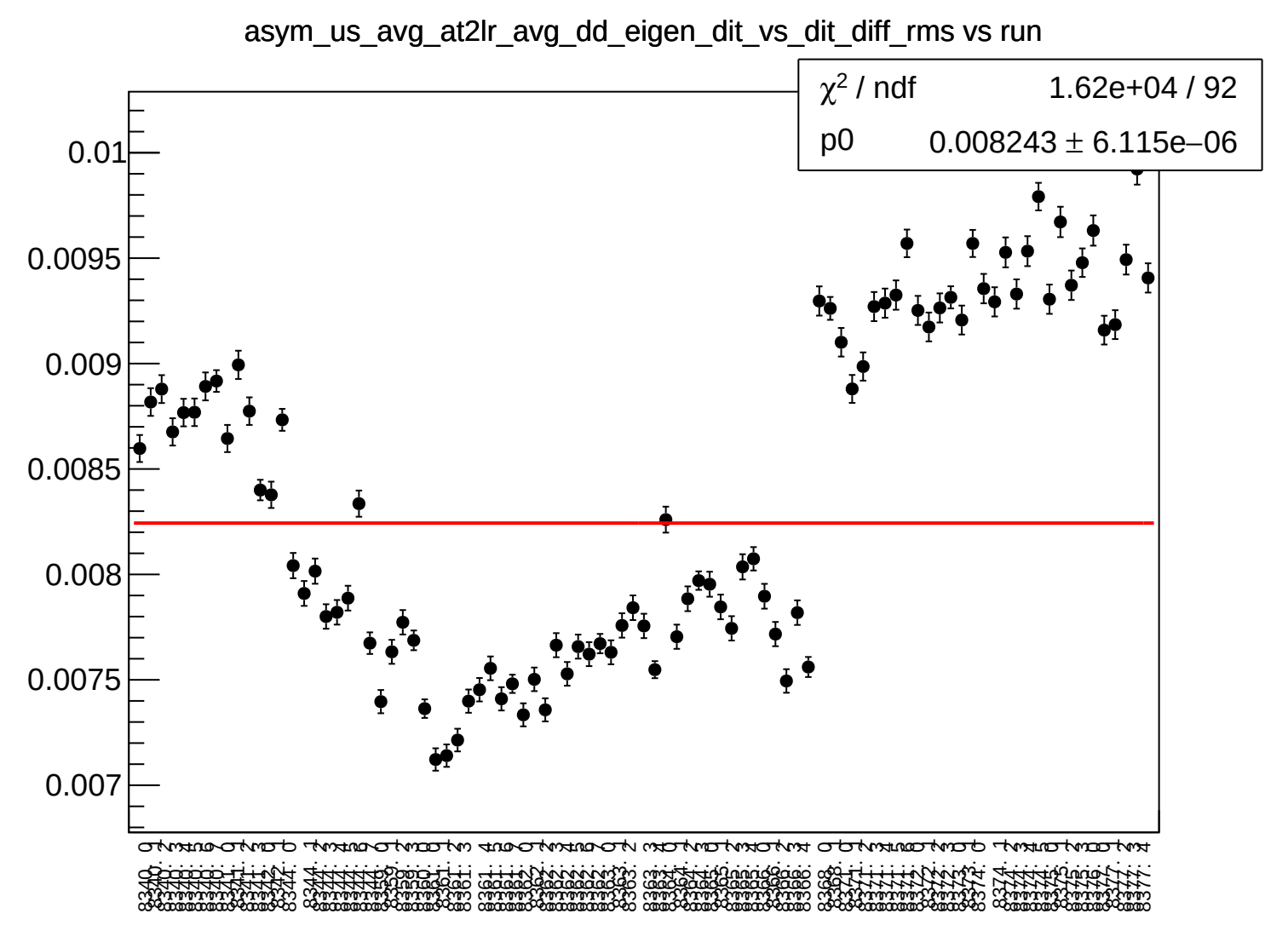

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.6 / 92
p0 0.2504 ± 0.2192
pull
Entries 93
Mean −61.44
Std Dev 0

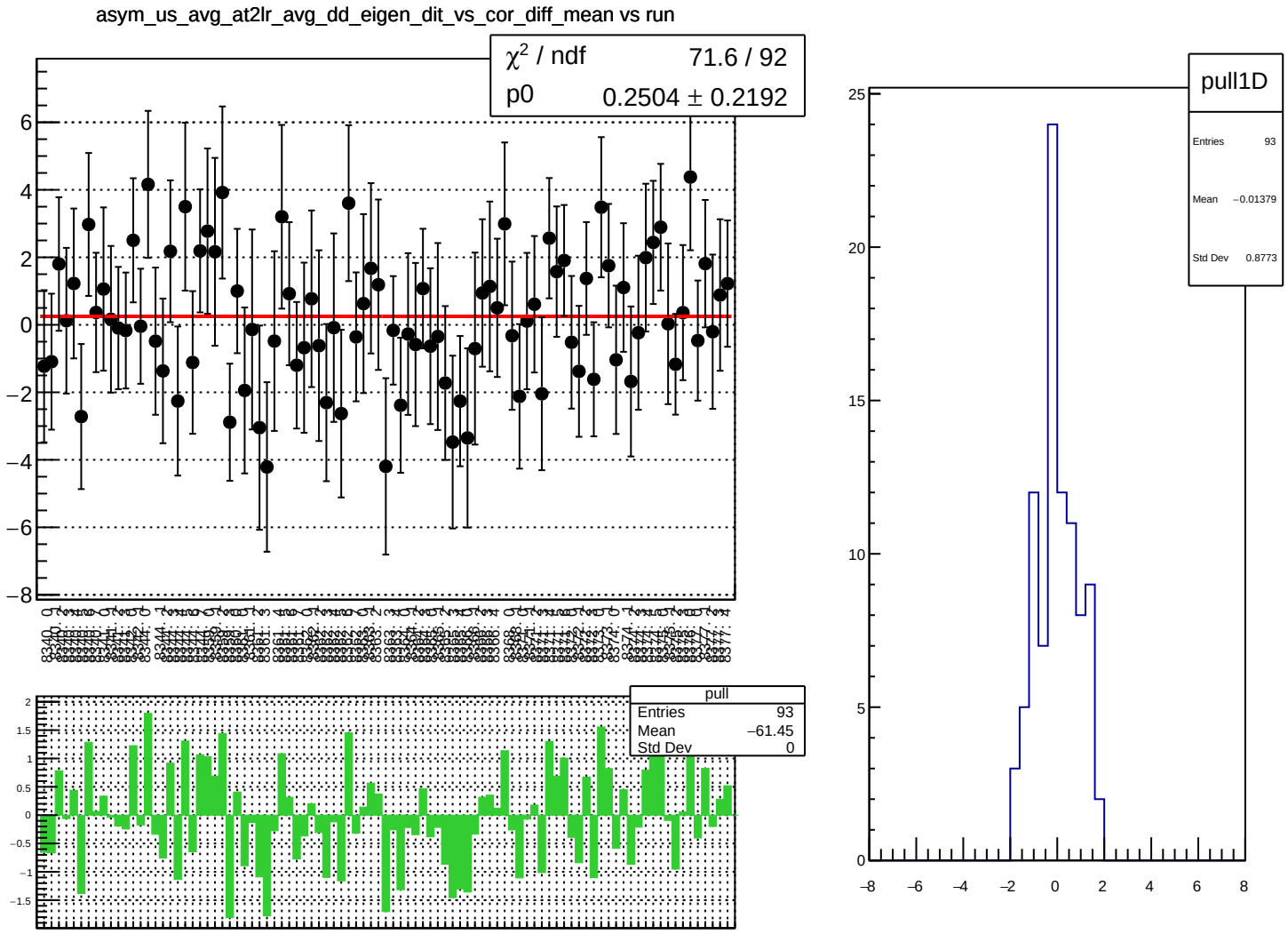

pull1D
Entries 93
Mean −0.0138
Std Dev 0.8773

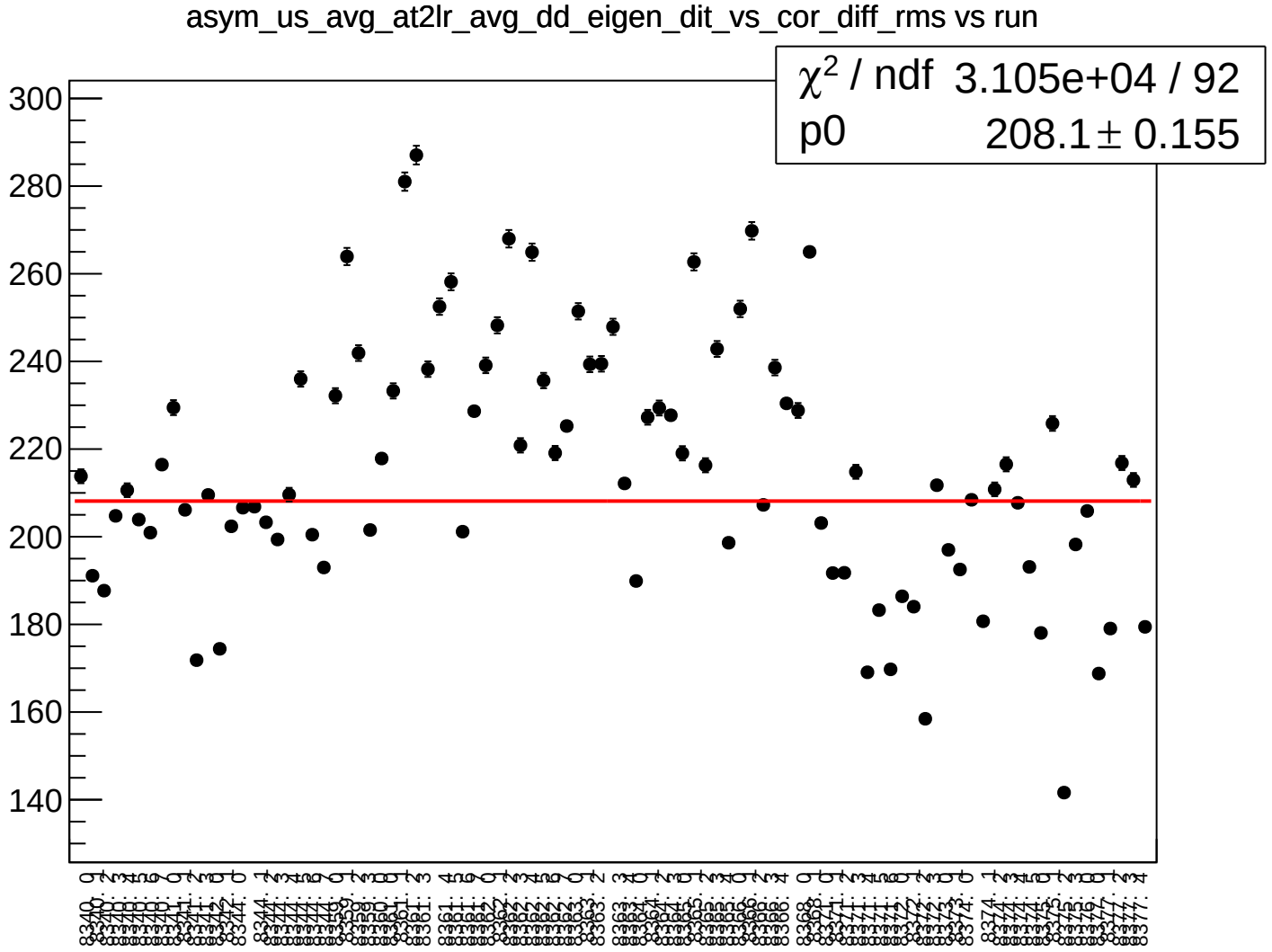

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.105e+04 / 92
p0 208.1 ± 0.155
300
280
260
240
220
200
180
160
140


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.96 / 92
p0 1.308e−05 ± 8.648e−06
pull
Entries 93
Mean −267.8
Std Dev 0

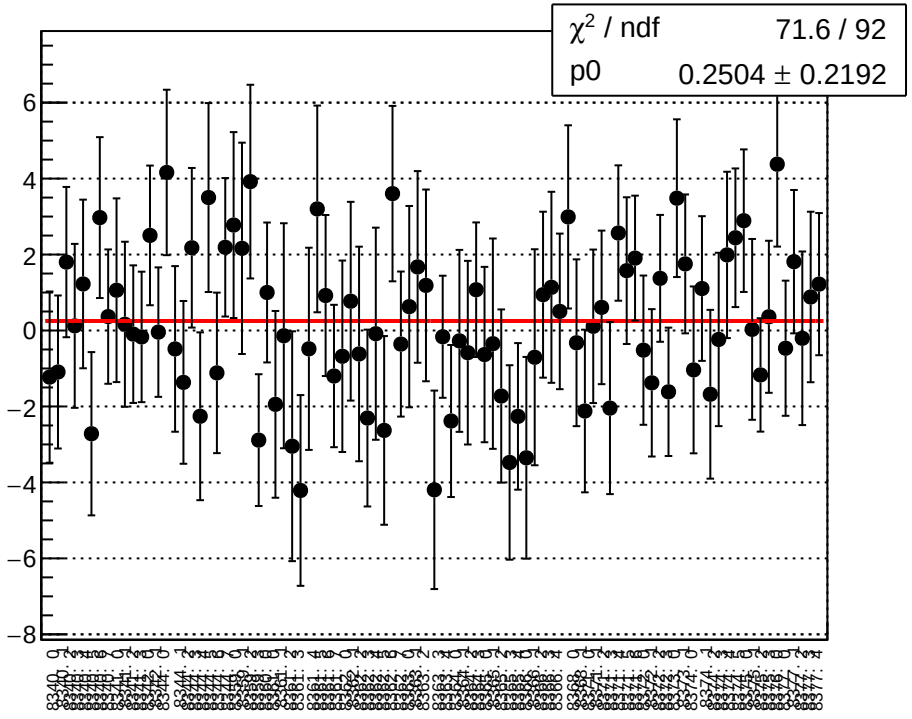

pull1D
Entries 93
Mean −0.006899
Std Dev 1.01

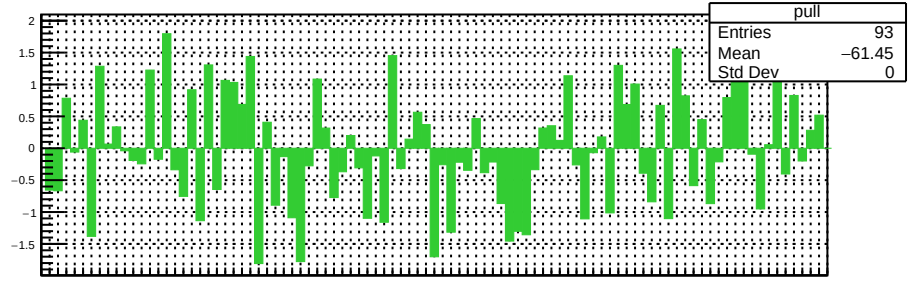

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.62e+04 / 92
p0 0.008243 ± 6.115e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

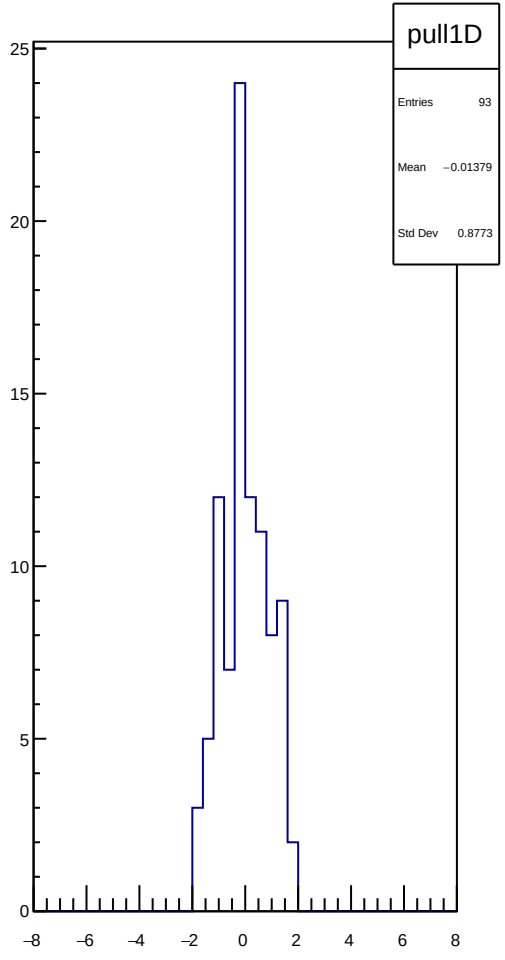

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.6 / 92
p0 0.2504 ± 0.2192
pull
Entries 93
Mean −61.45
Std Dev 0
pull1D
Entries 93
Mean −0.01379
Std Dev 0.8773

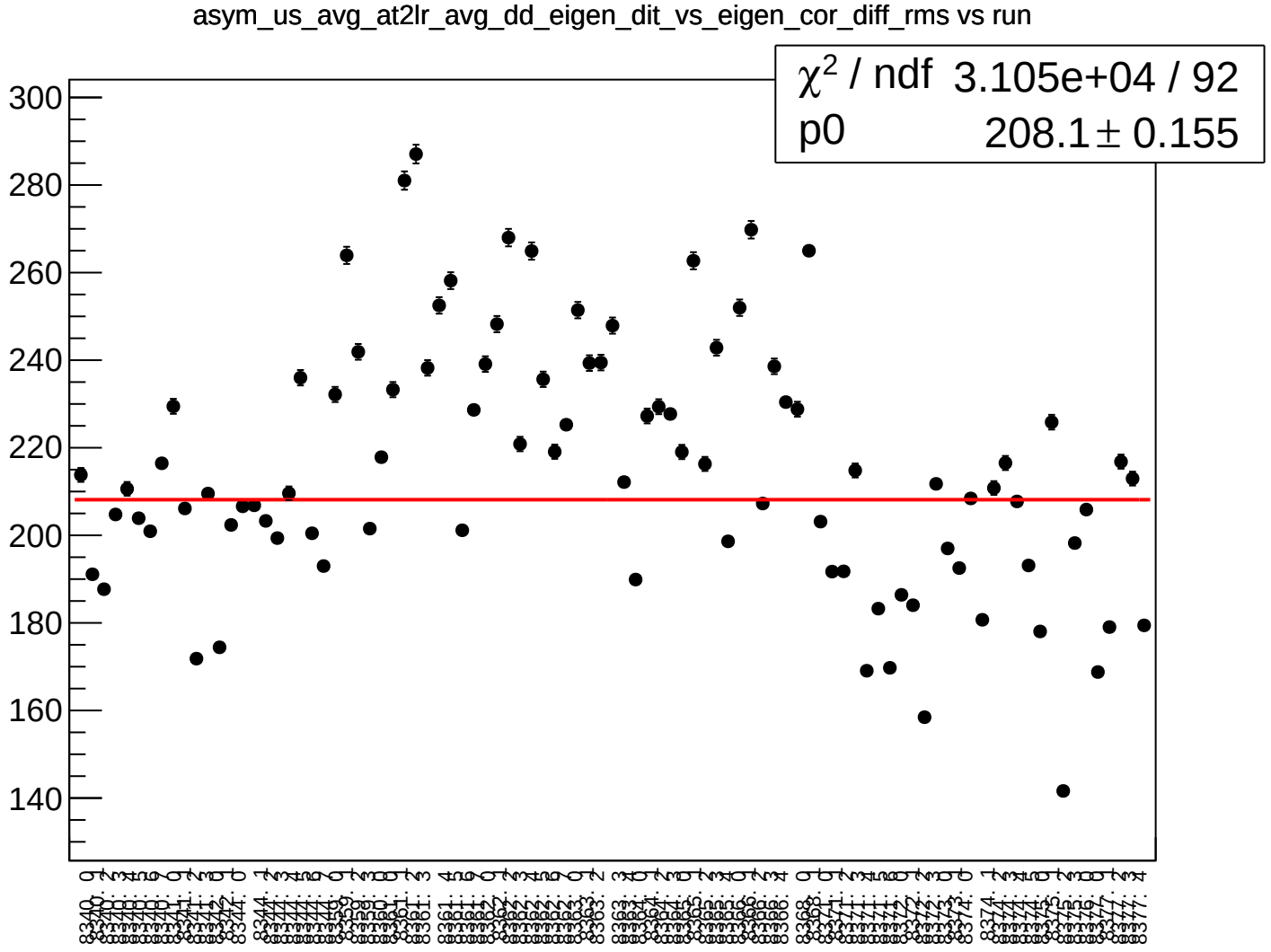

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.105e+04 / 92
p0 208.1 ± 0.155
300
280
260
240
220
200
180
160
140

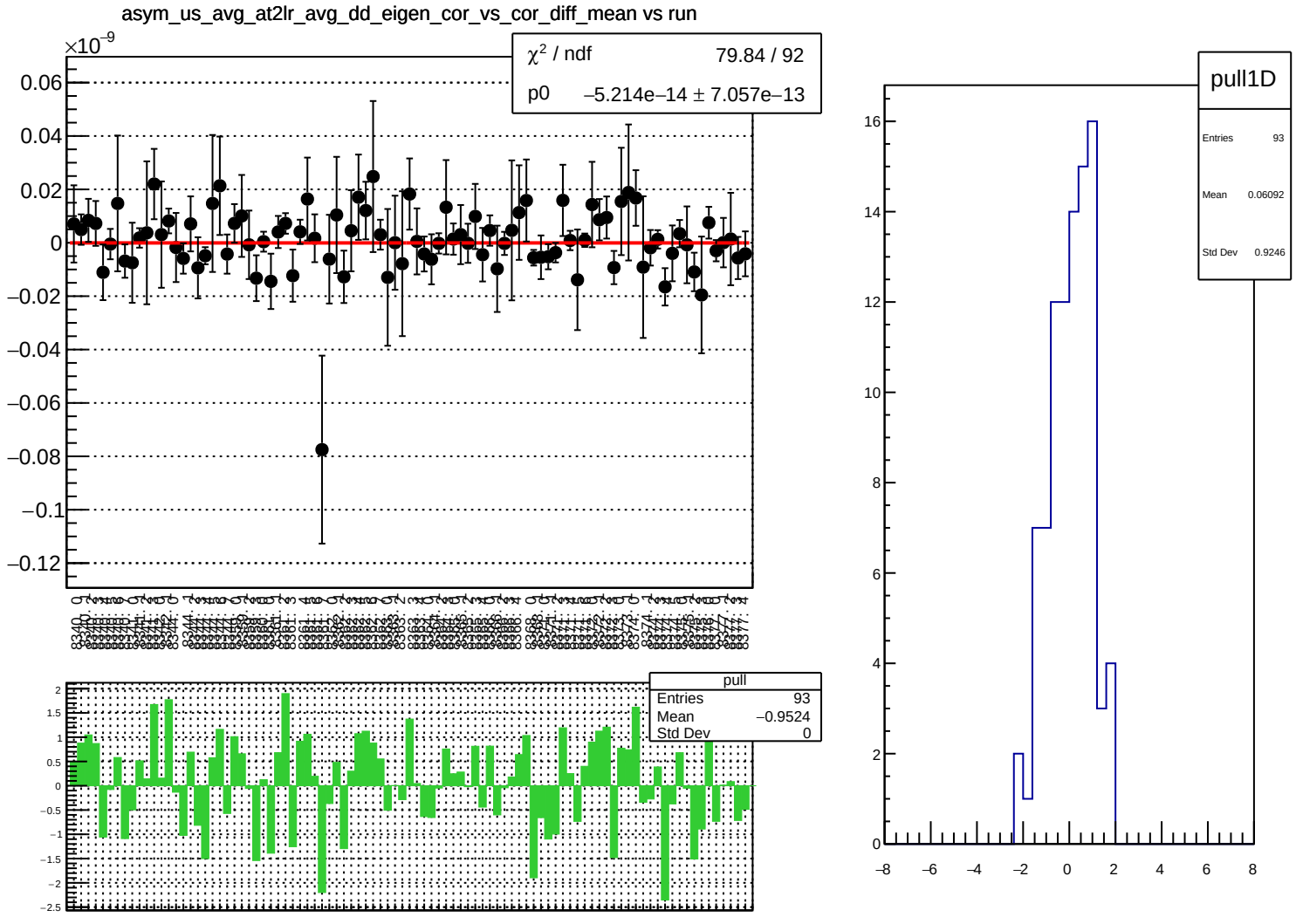
asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

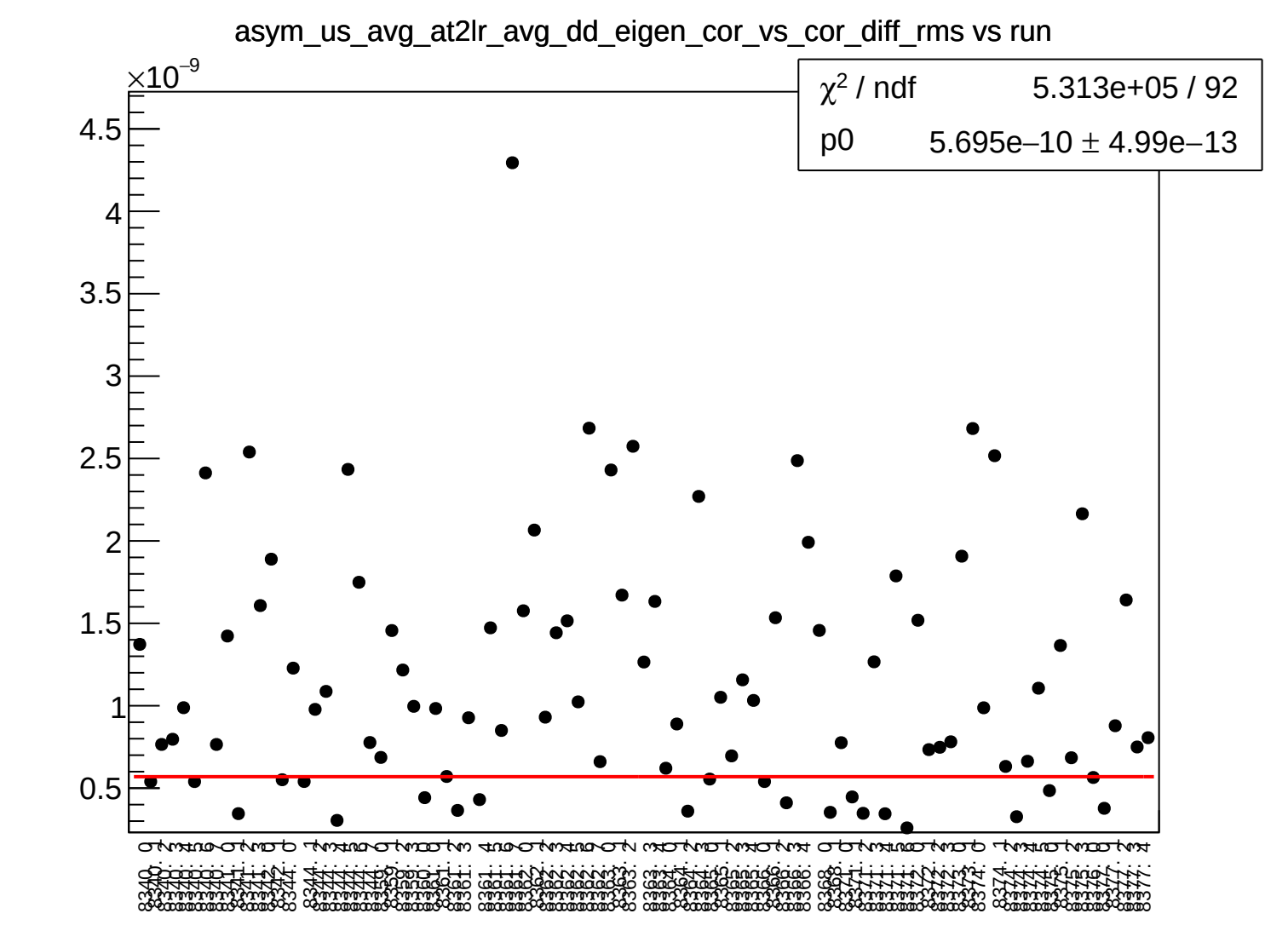


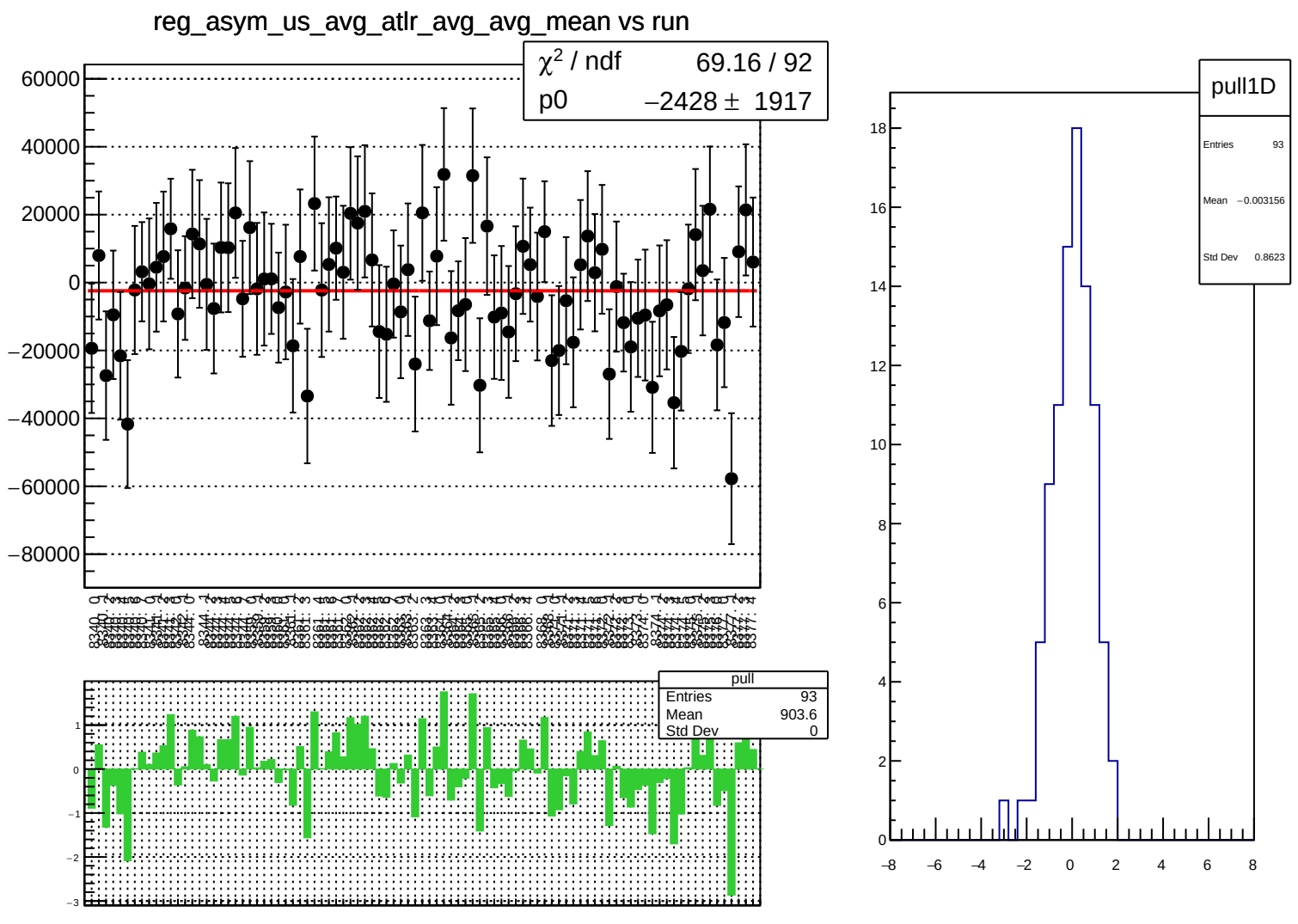


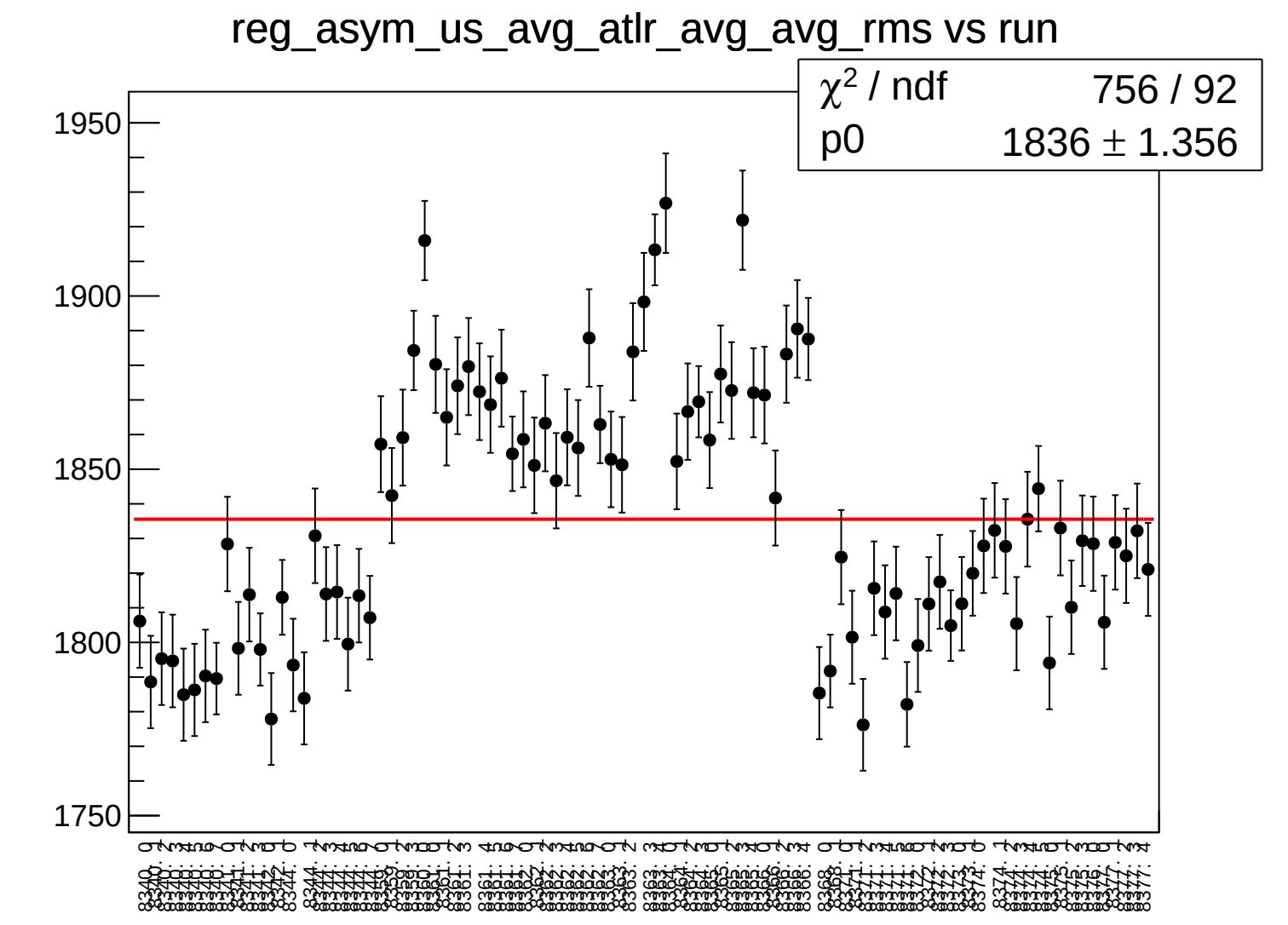


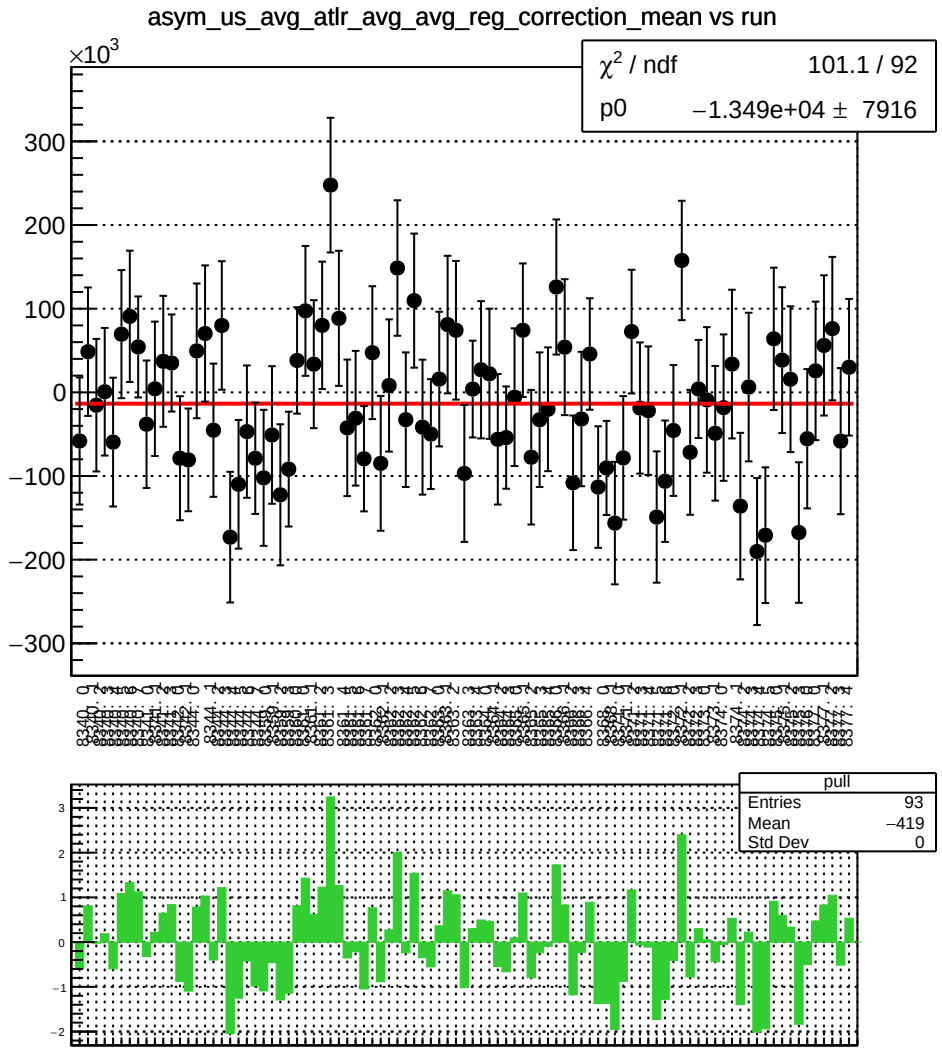

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.105e+04 / 92
p0 208.1 ± 0.155
300
280
260
240
220
200
180
160
140

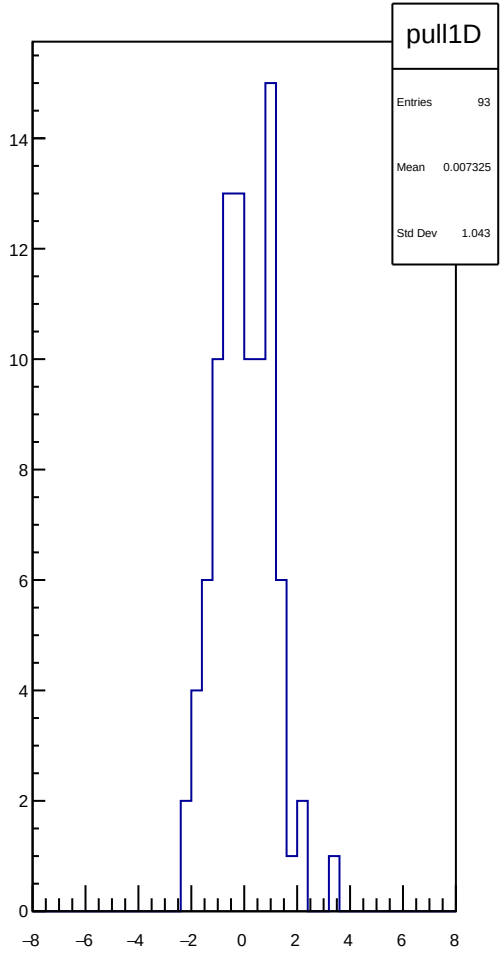

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 79.84 / 92
p0 −5.214e−14 ± 7.057e−13
pull
Entries 93
Mean −0.9524
Std Dev 0
pull1D
Entries 93
Mean 0.06092
Std Dev 0.9246

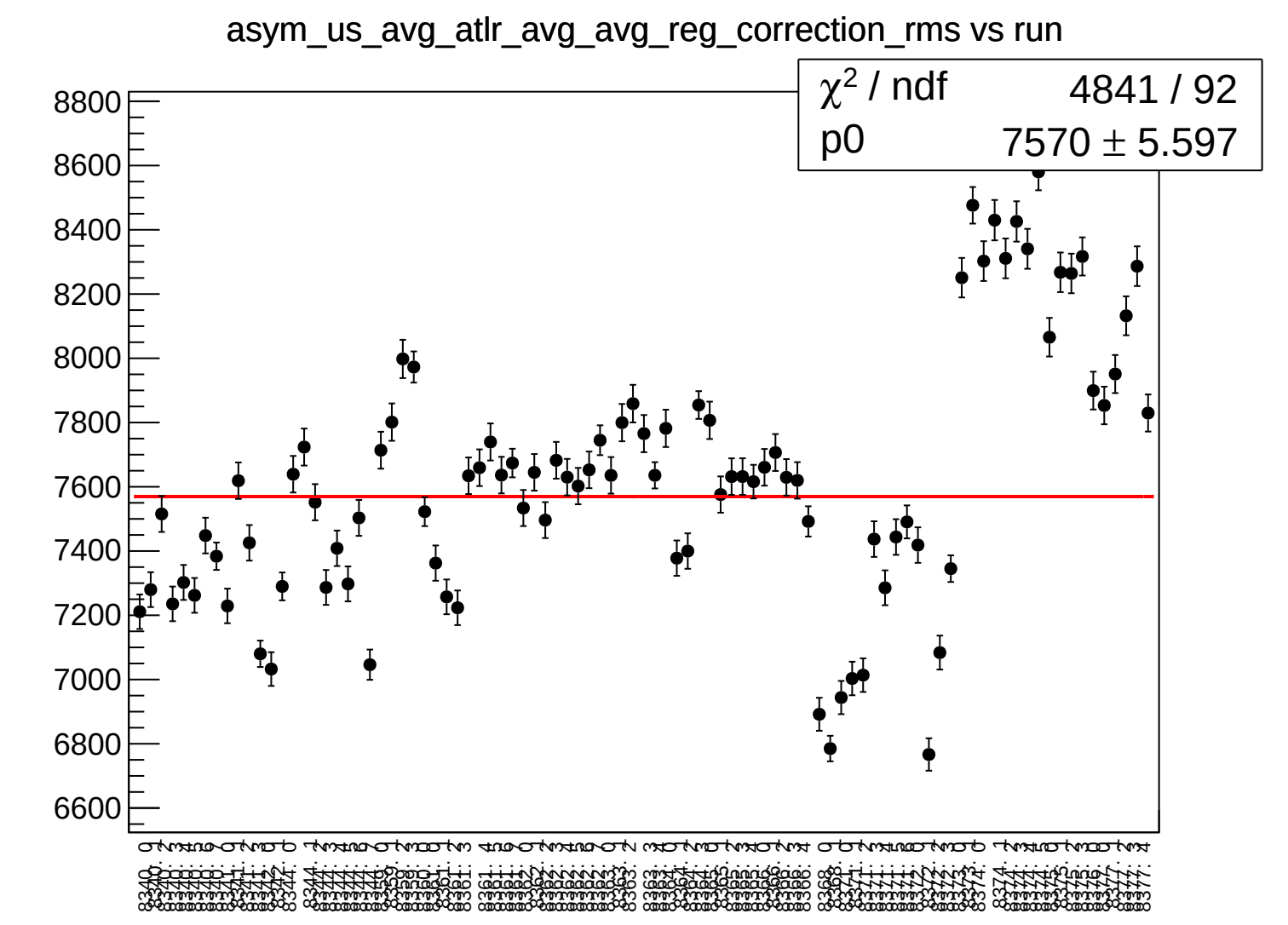

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.313e+05 / 92
p0 5.695e−10 ± 4.99e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

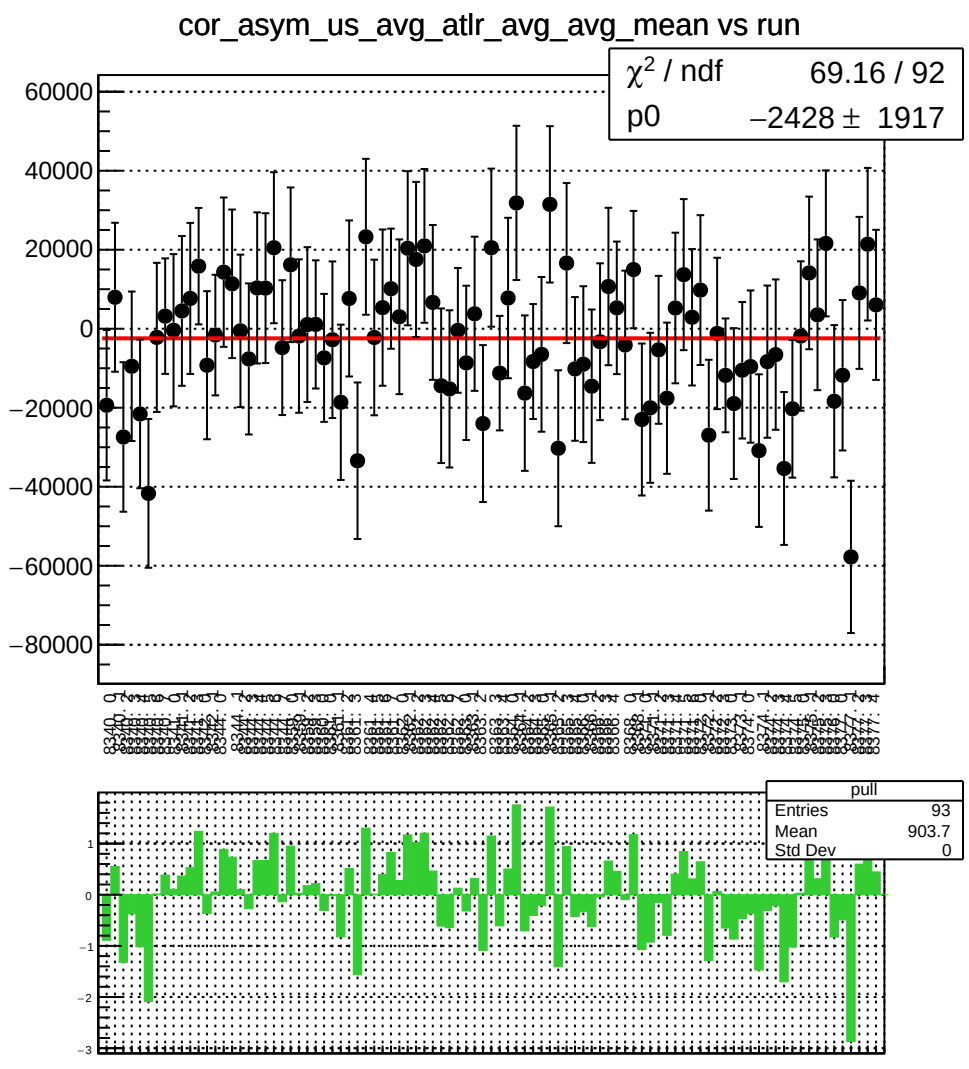

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.16 / 92
p0 −2428 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 903.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003156
Std Dev 0.8623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

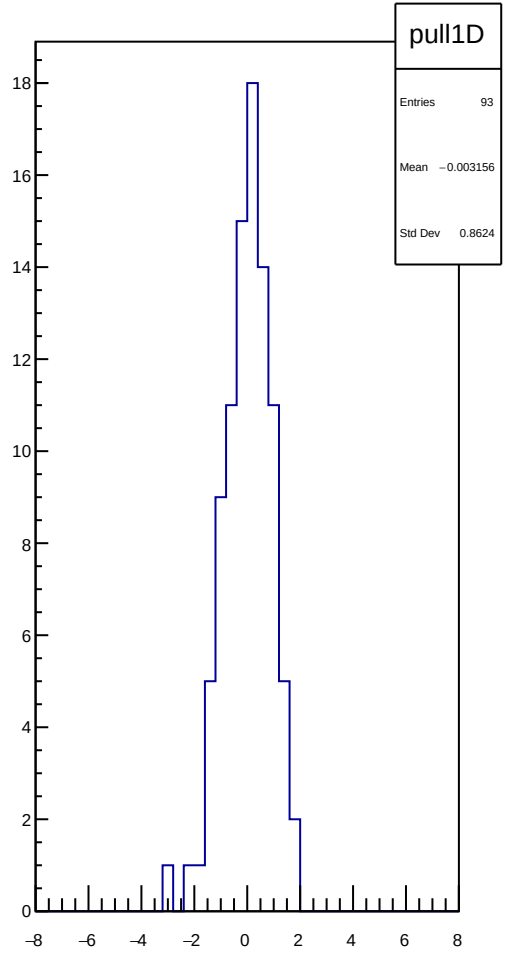

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 756 / 92
p0 1836 ± 1.356
1950
1900
1850
1800
1750

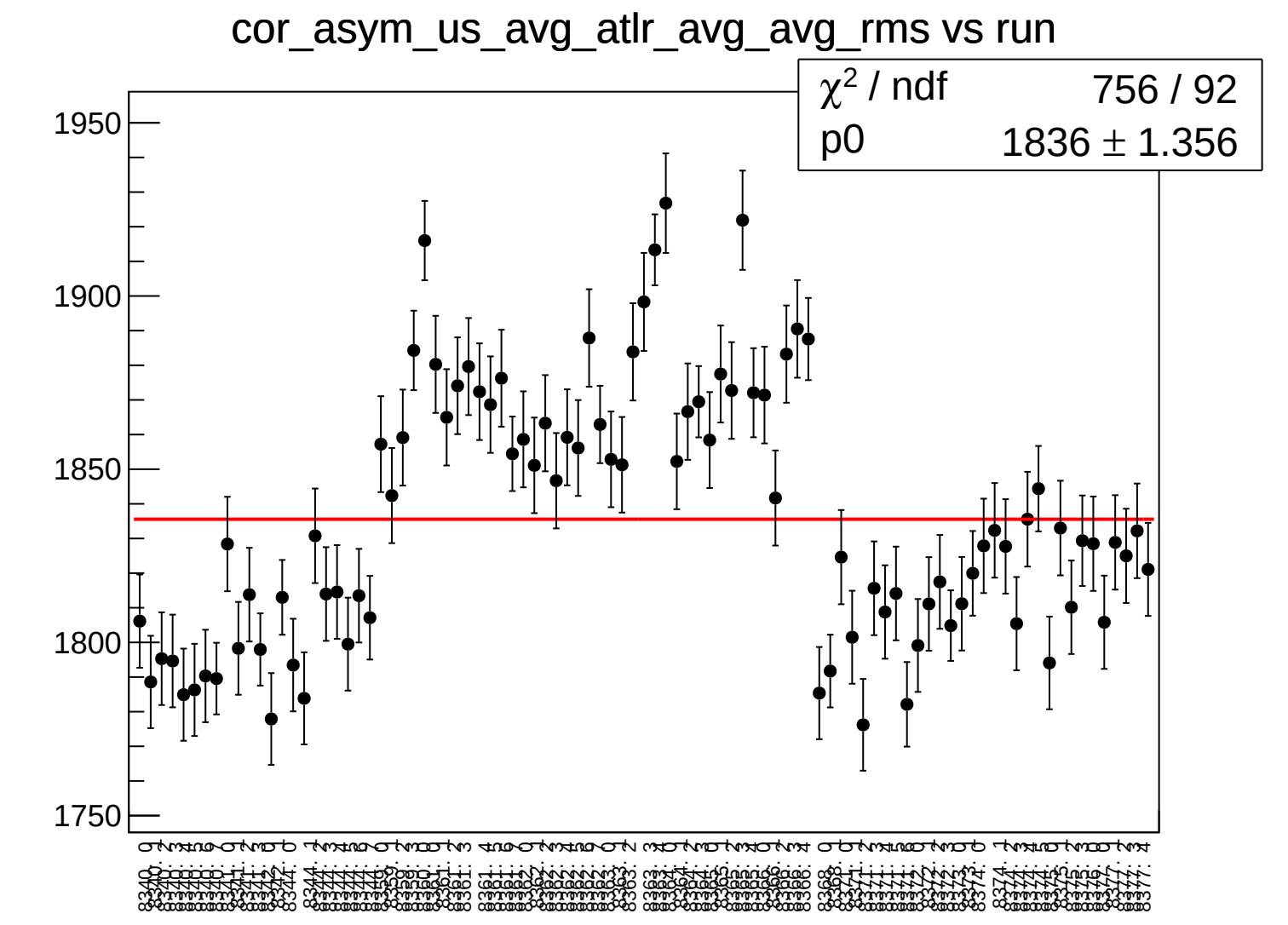

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.349e+04 ± 7916
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −419
Std Dev 0
3
2
1
0
−1
−2

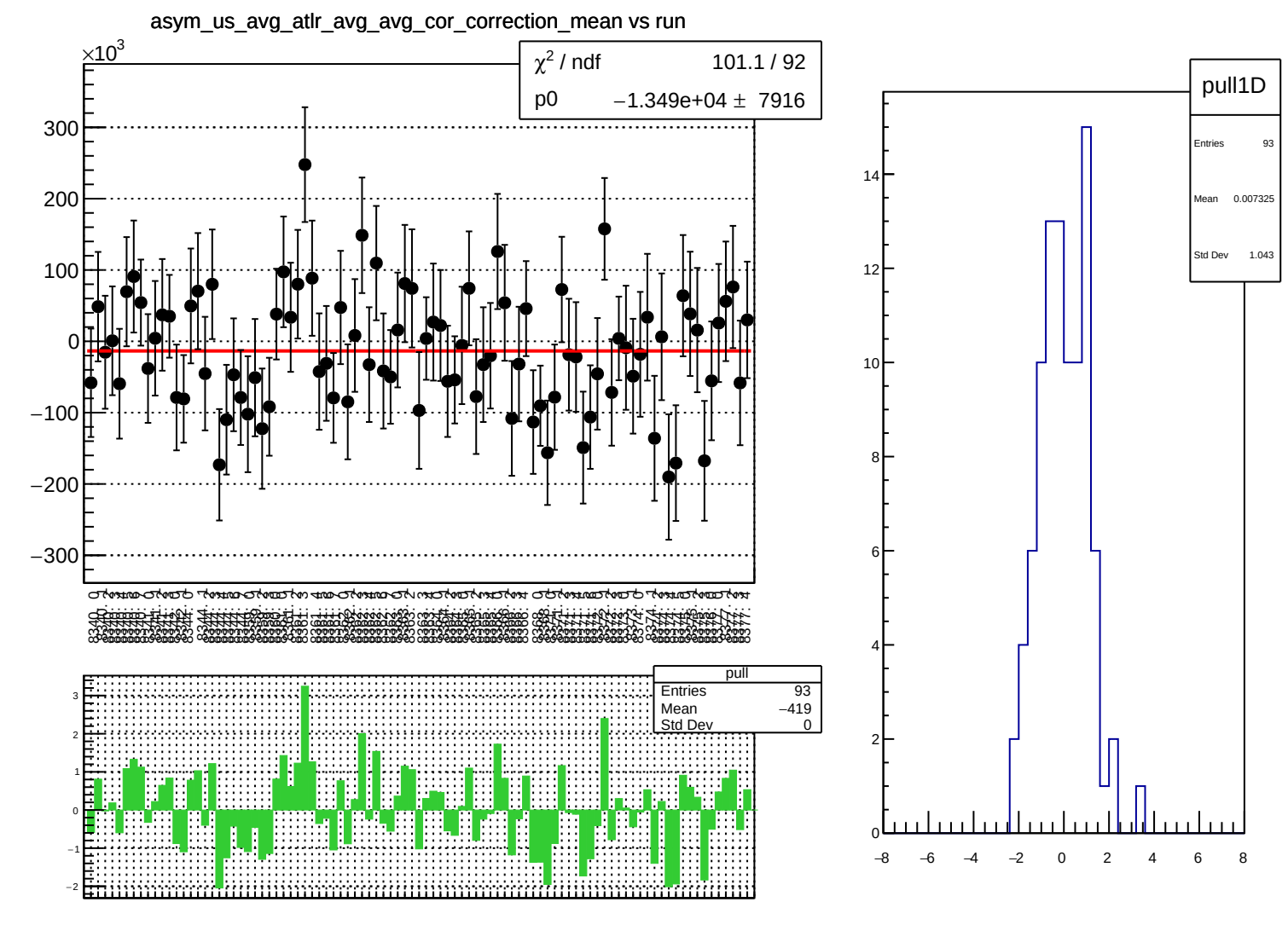

pull1D
Entries 93
Mean 0.007325
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

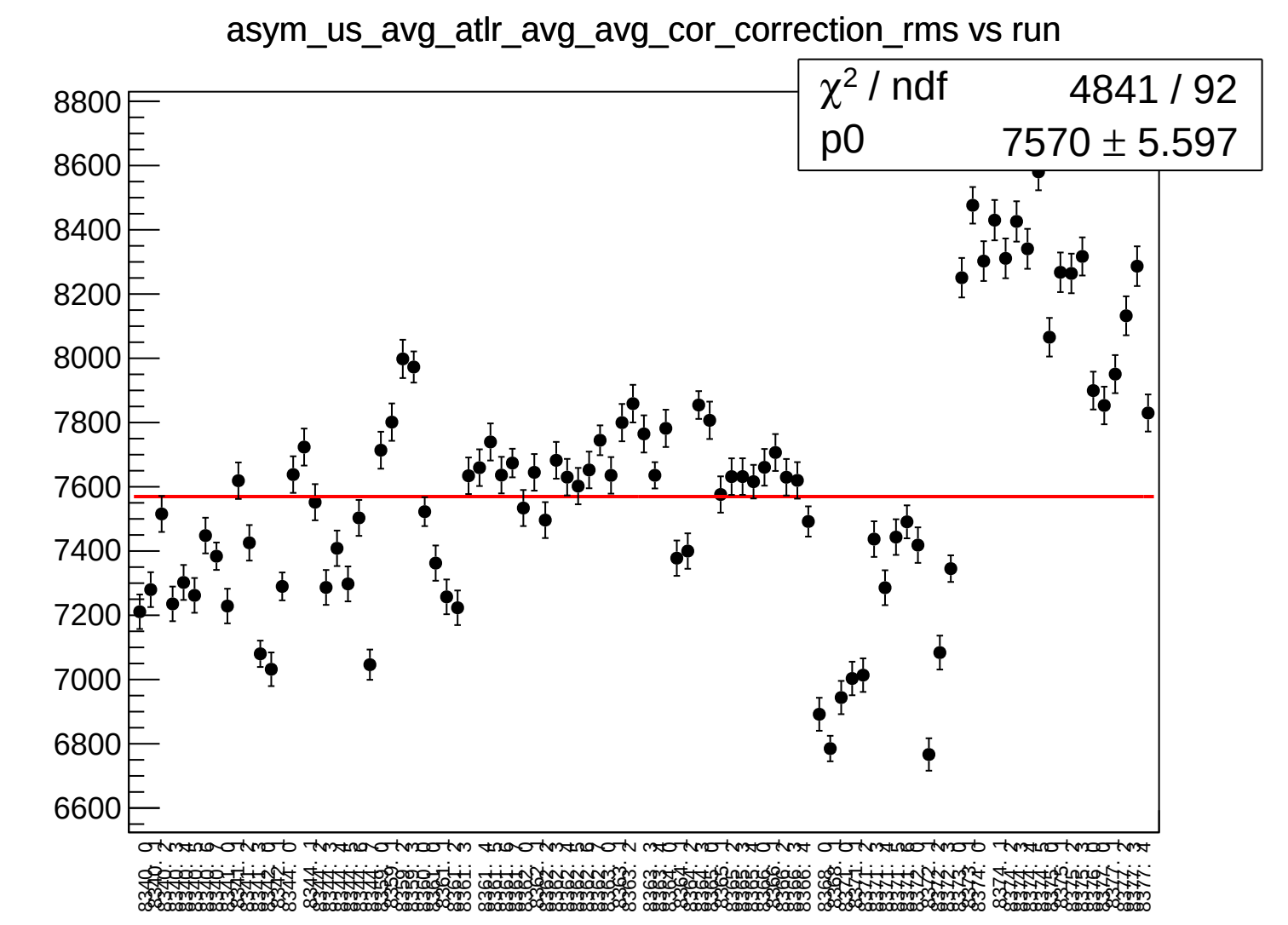

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4841 / 92
p0 7570 ± 5.597
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

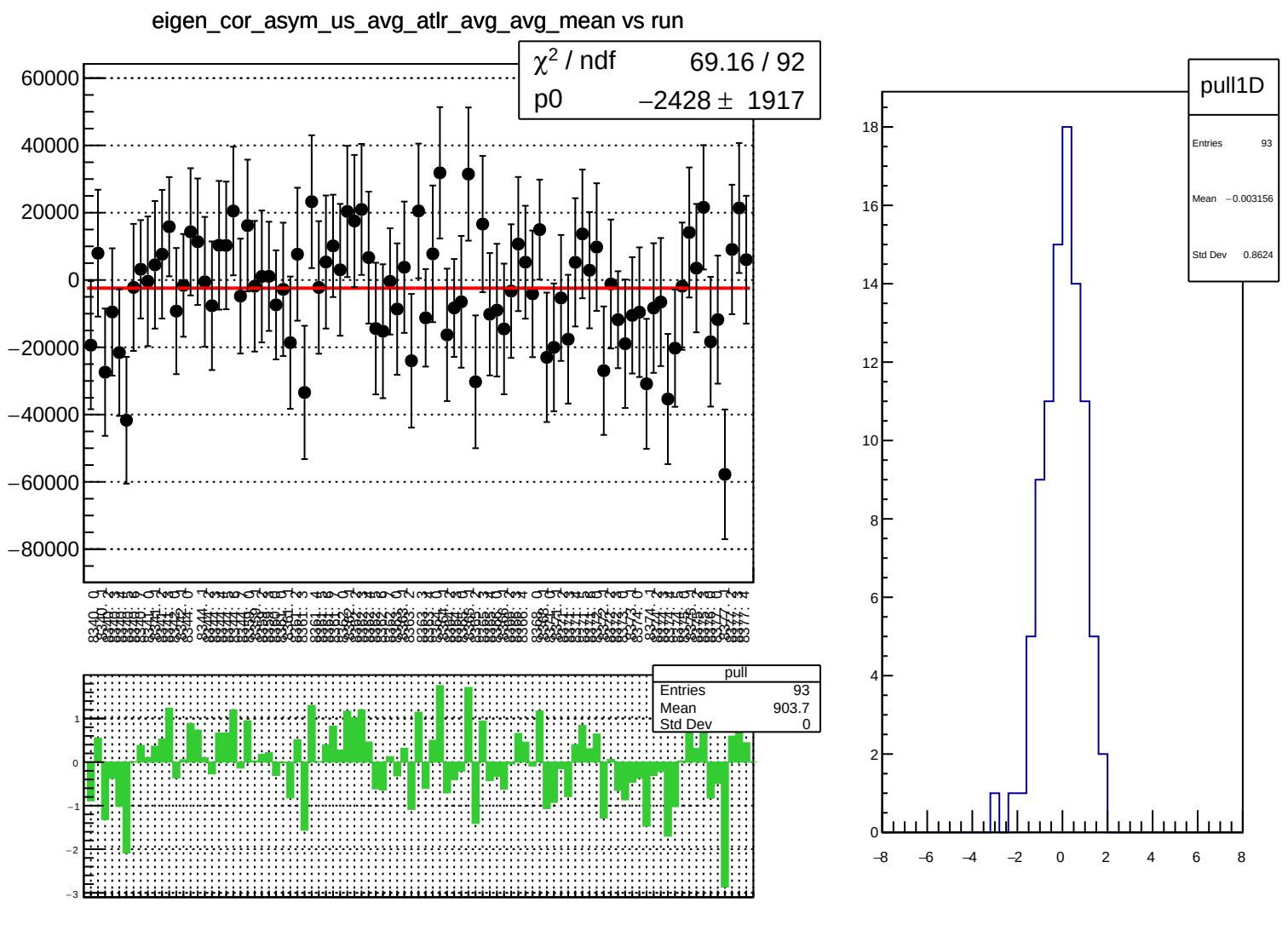

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.16 / 92
p0 −2428 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 903.7
Std Dev 0
1
0
−1
−2
−3

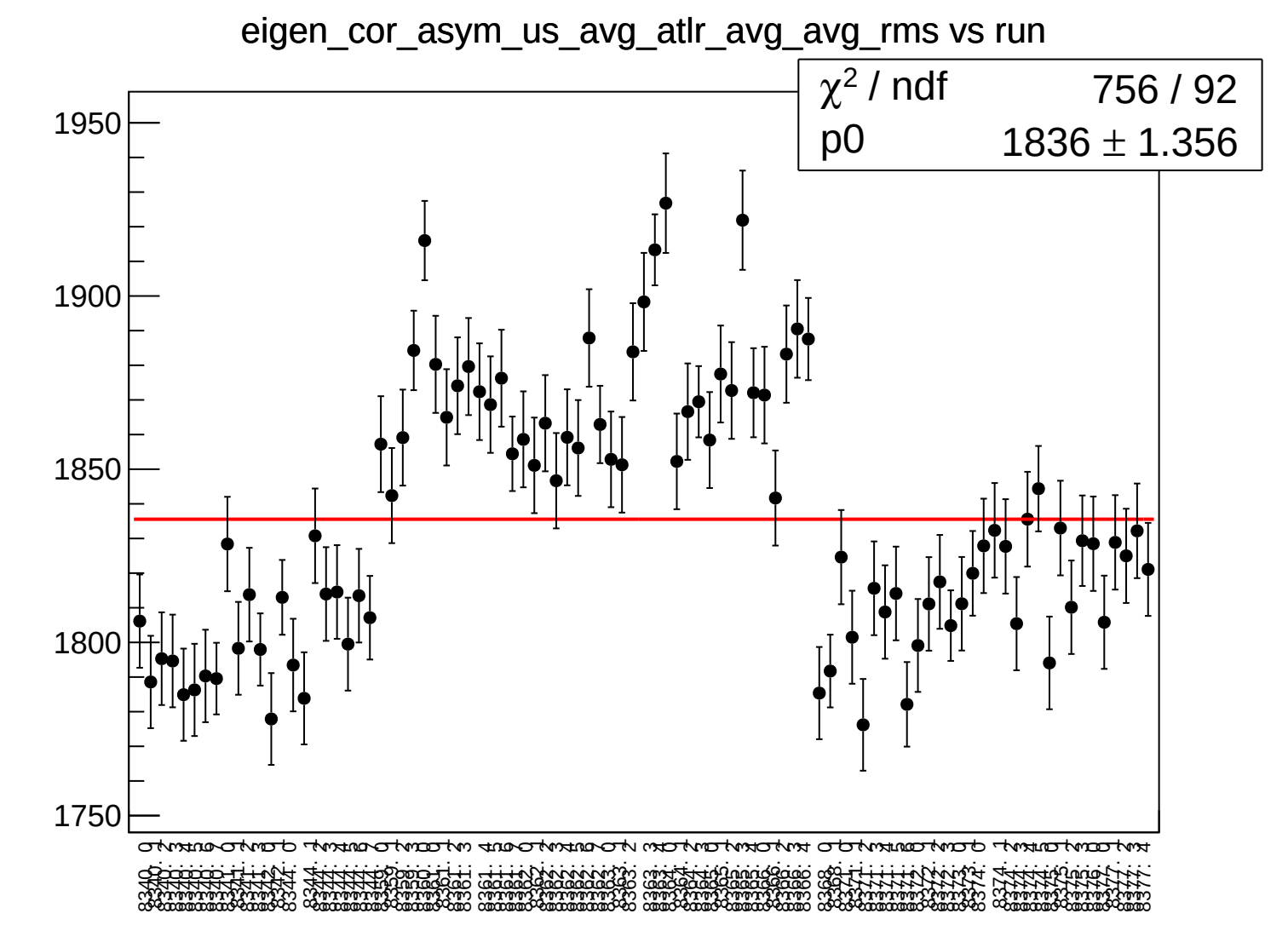

pull1D
Entries 93
Mean −0.003156
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

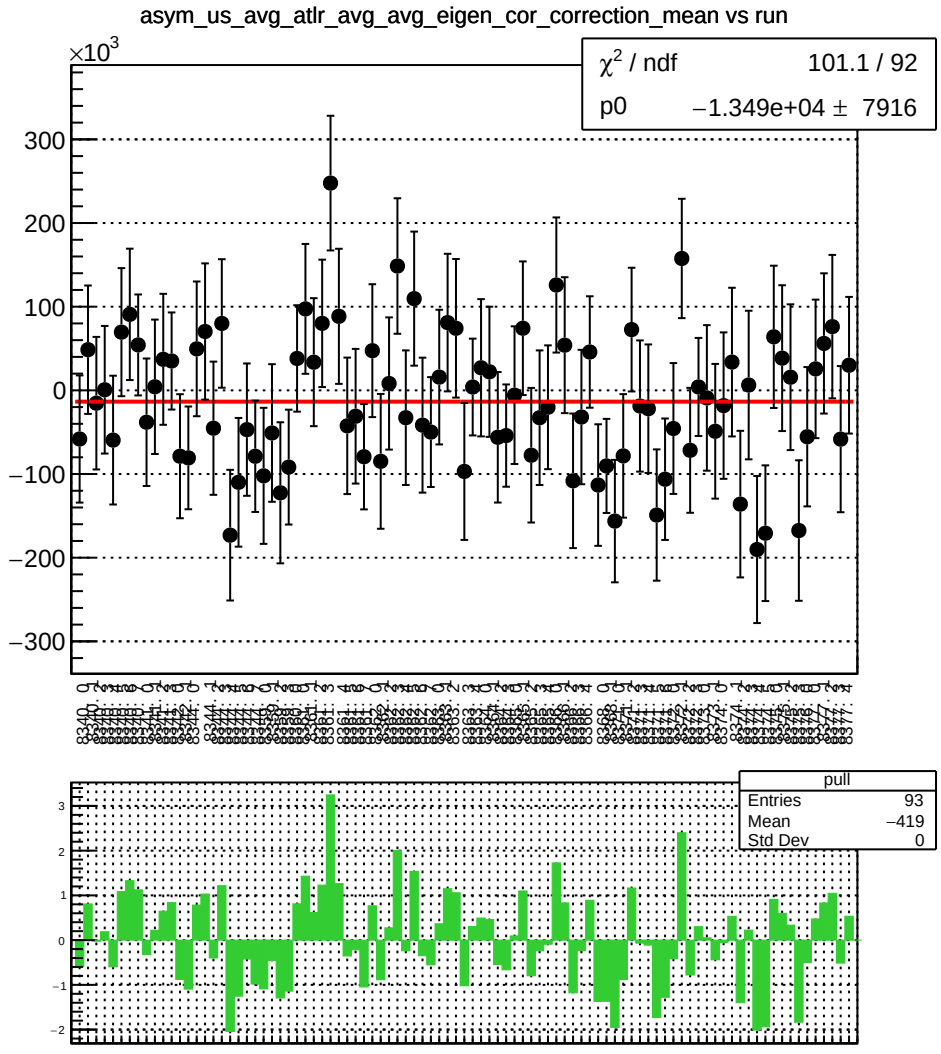

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 756 / 92
p0 1836 ± 1.356
1950
1900
1850
1800
1750

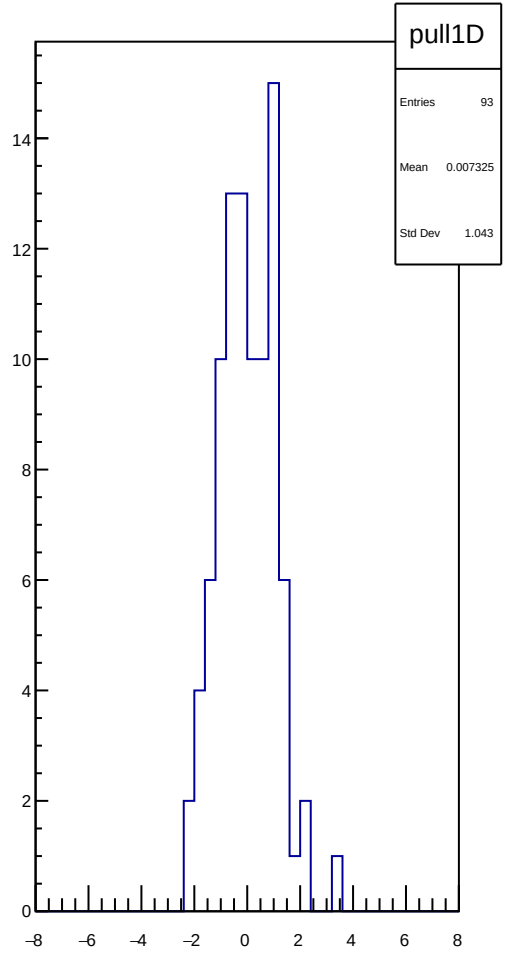

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.349e+04 ± 7916
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −419
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.007325
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

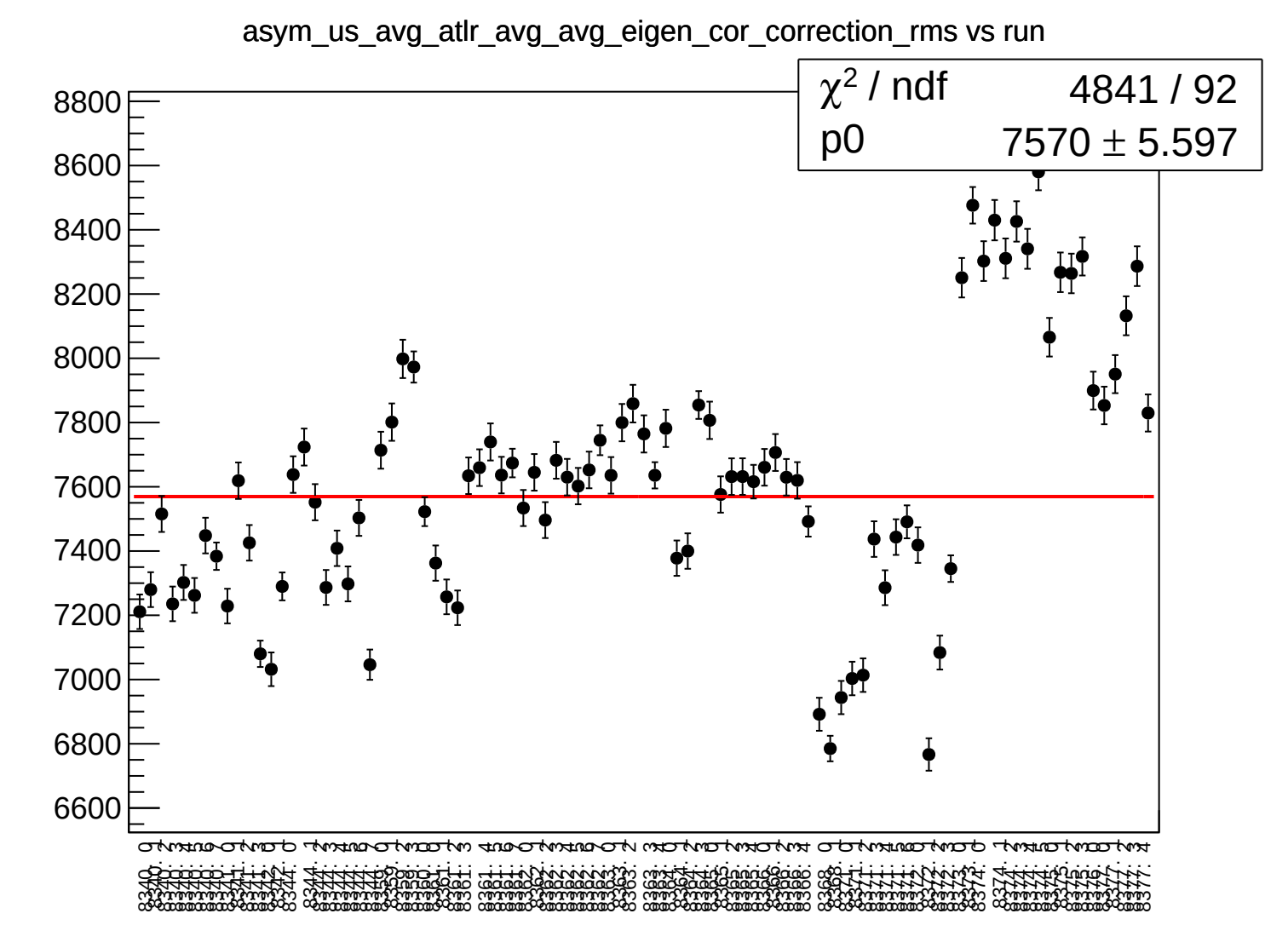

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4841 / 92
p0 7570 ± 5.597
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

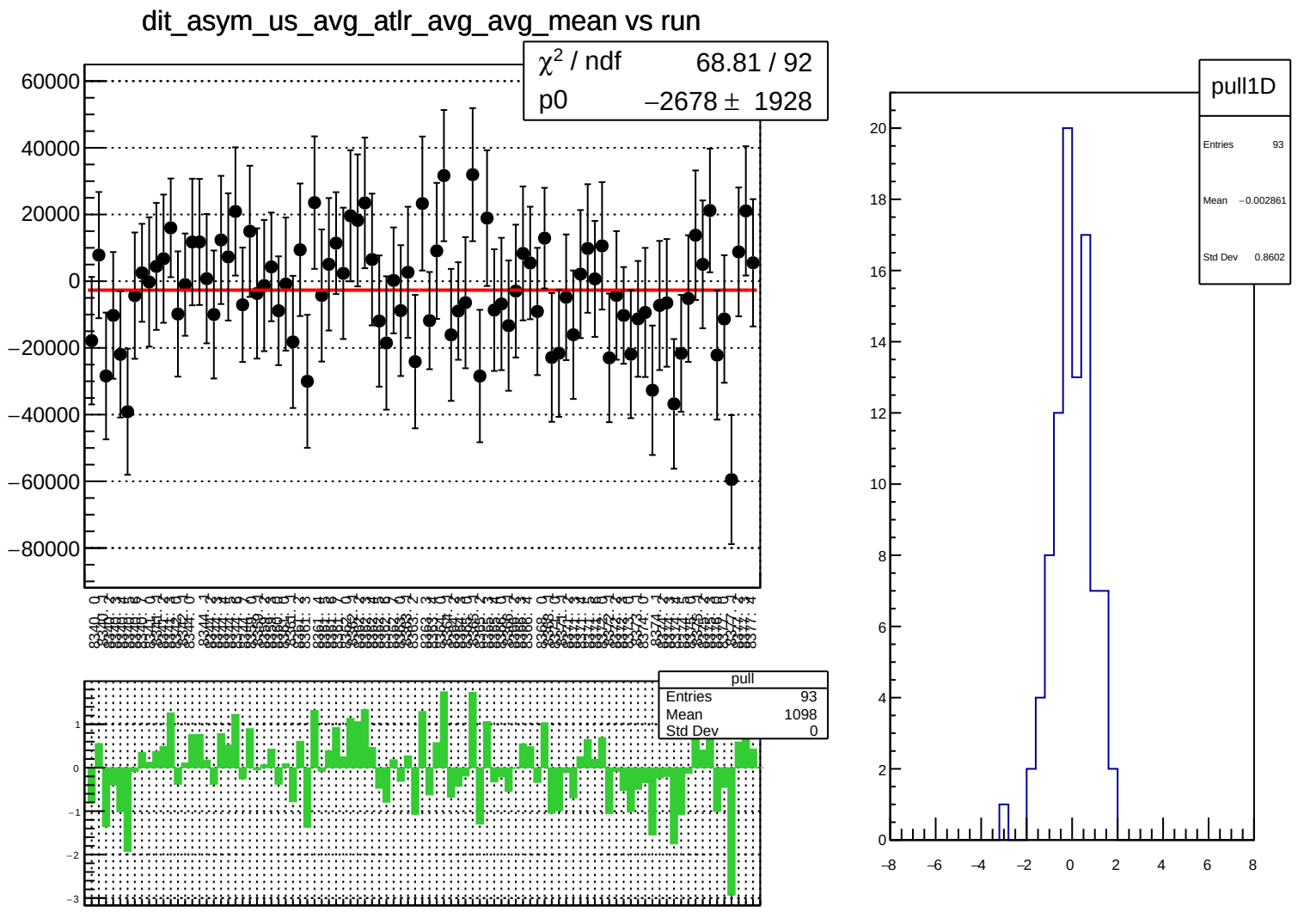

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 69.16 / 92
p0 −2428 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 903.7
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.003156
Std Dev 0.8624
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

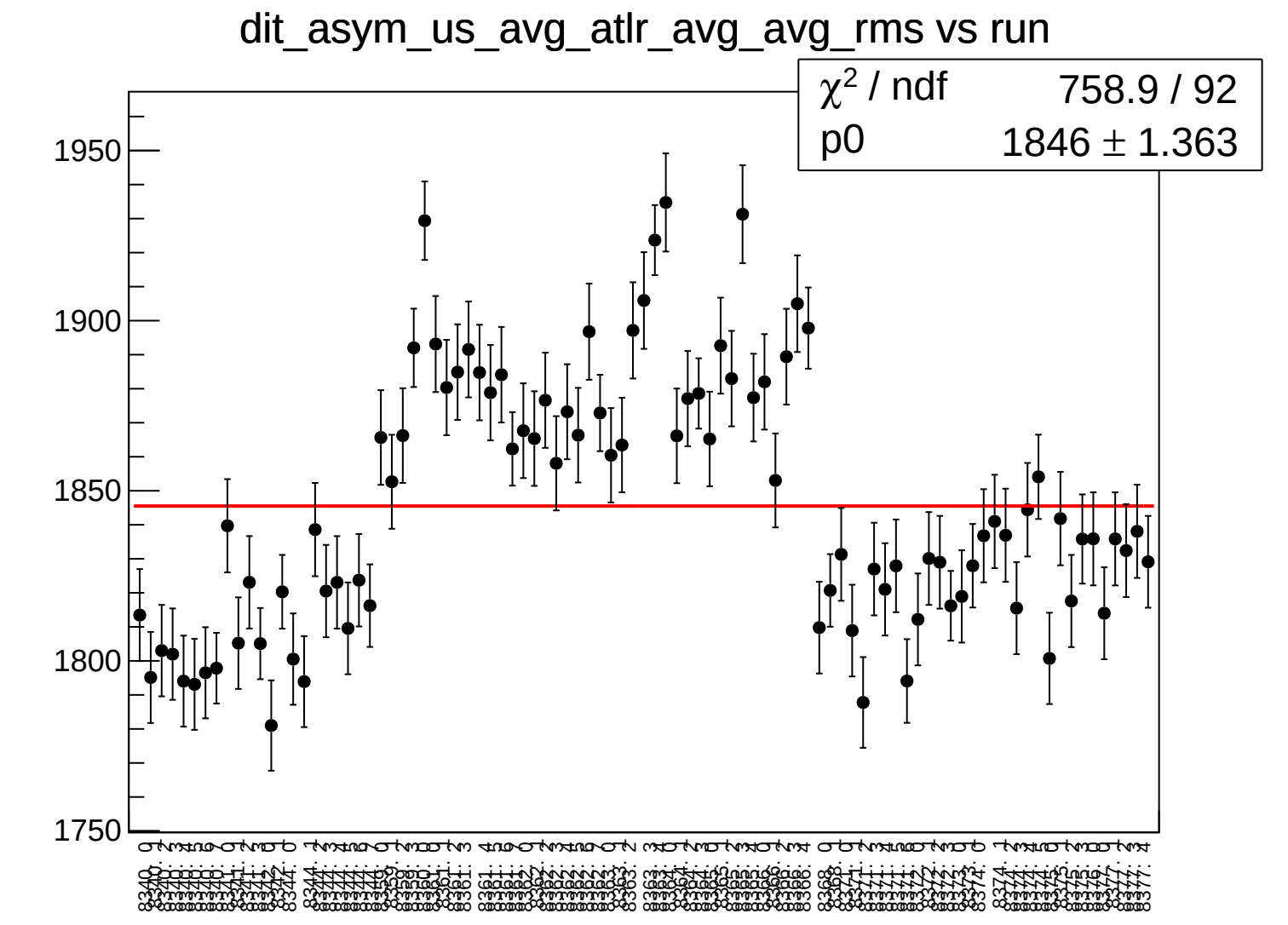

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 756 / 92
p0 1836 ± 1.356
1950
1900
1850
1800
1750

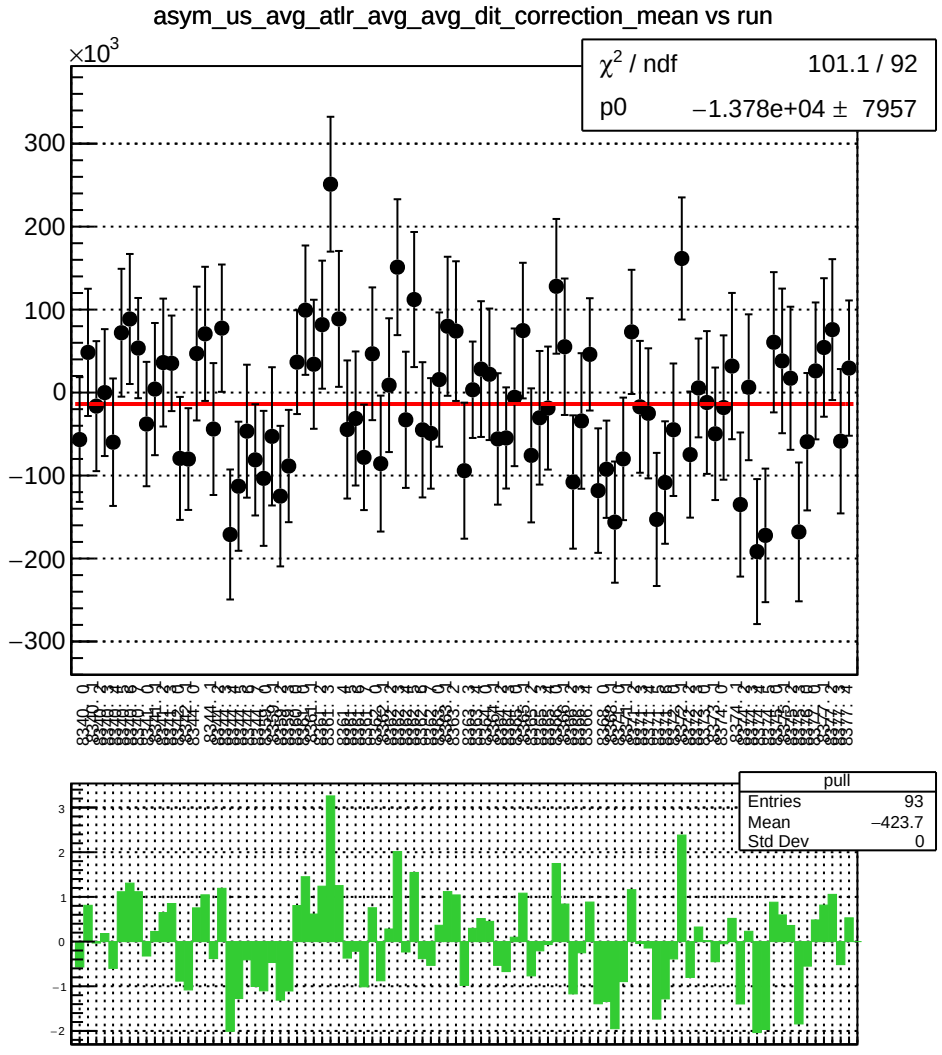

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.349e+04 ± 7916
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −419
Std Dev 0
3
2
1
0
−1
−2

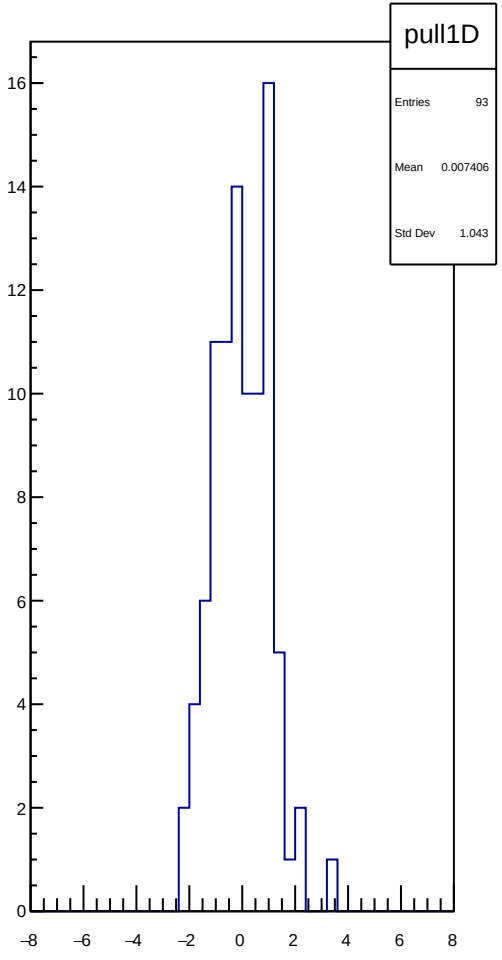

pull1D
Entries 93
Mean 0.007325
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

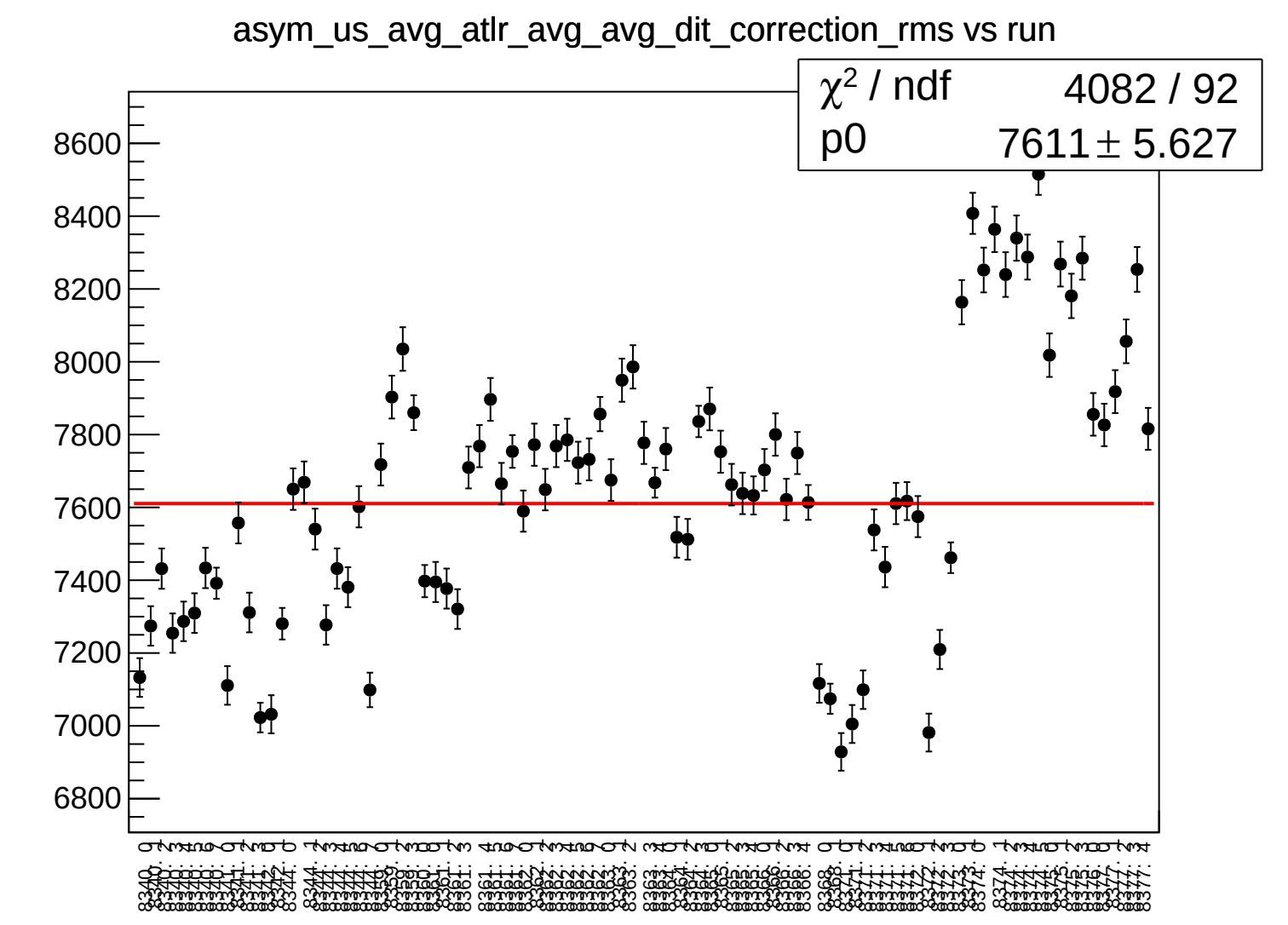

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4841 / 92
p0 7570 ± 5.597
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

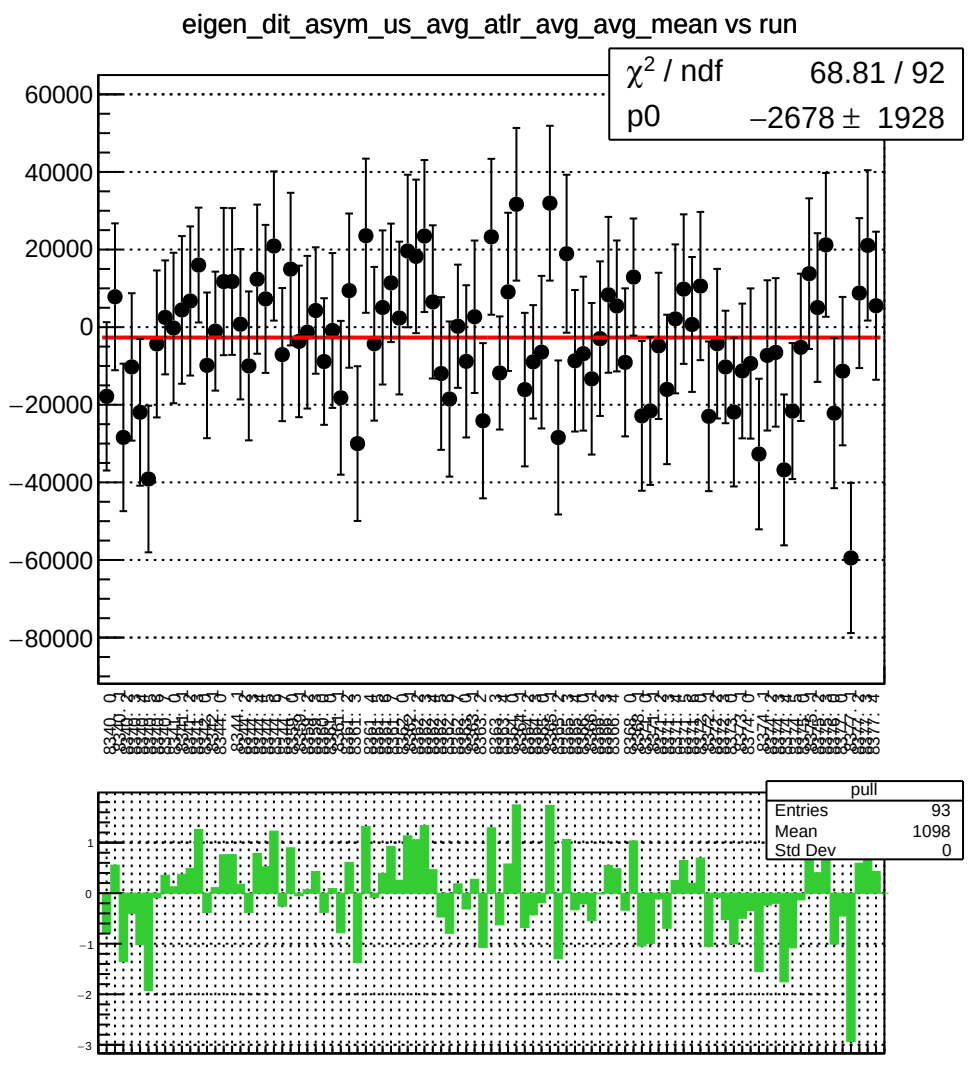

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.81 / 92
p0 −2678 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1098
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002861
Std Dev 0.8602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

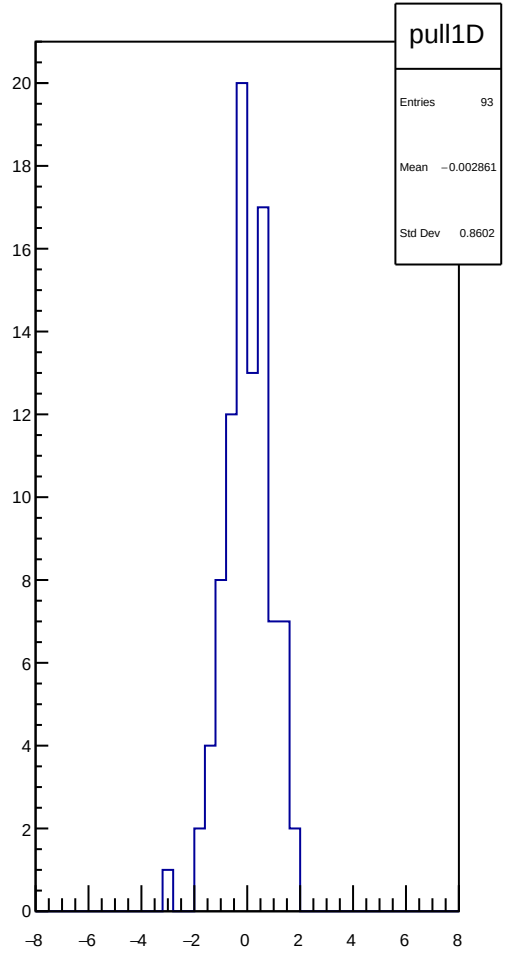

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 758.9 / 92
p0 1846 ± 1.363
1950
1900
1850
1800
1750

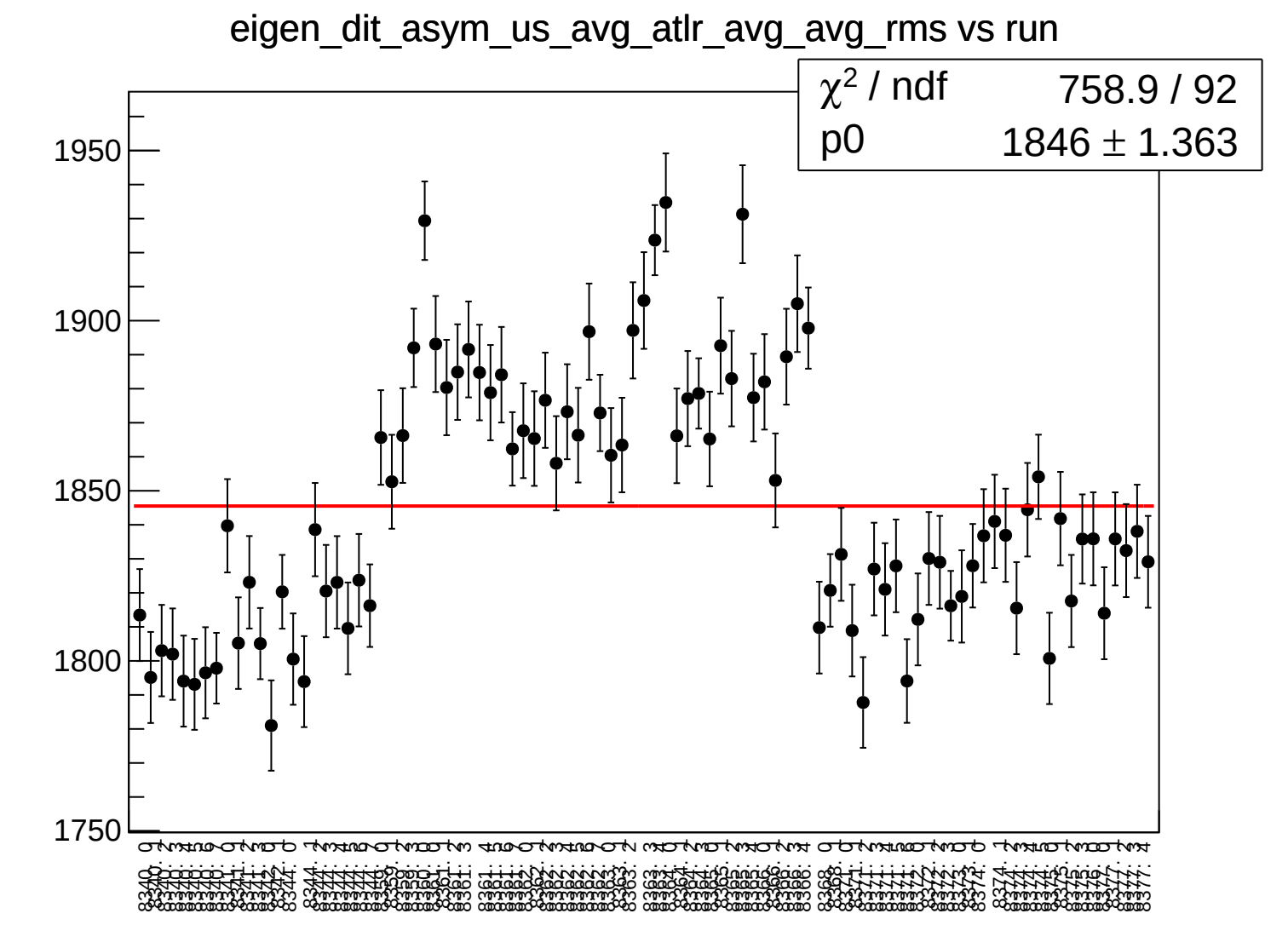

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.378e+04 ± 7957
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −423.7
Std Dev 0
3
2
1
0
−1
−2

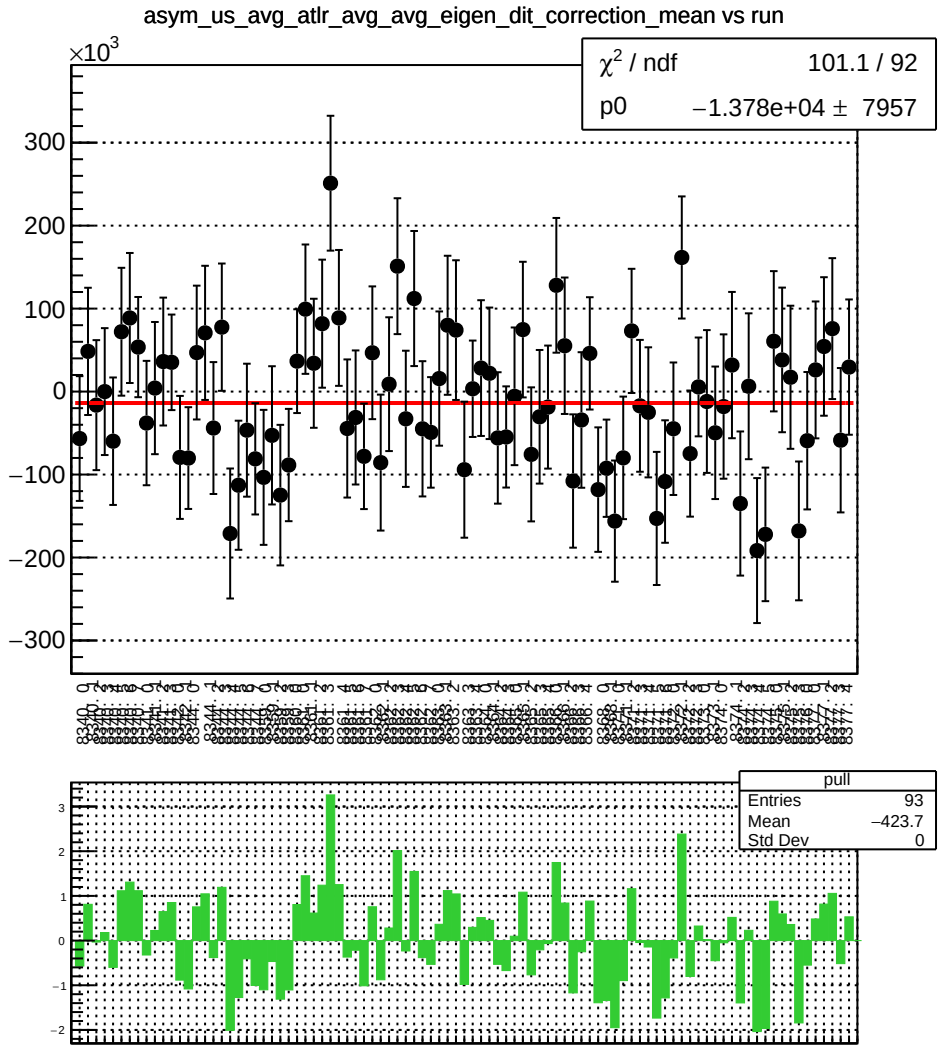

pull1D
Entries 93
Mean 0.007406
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

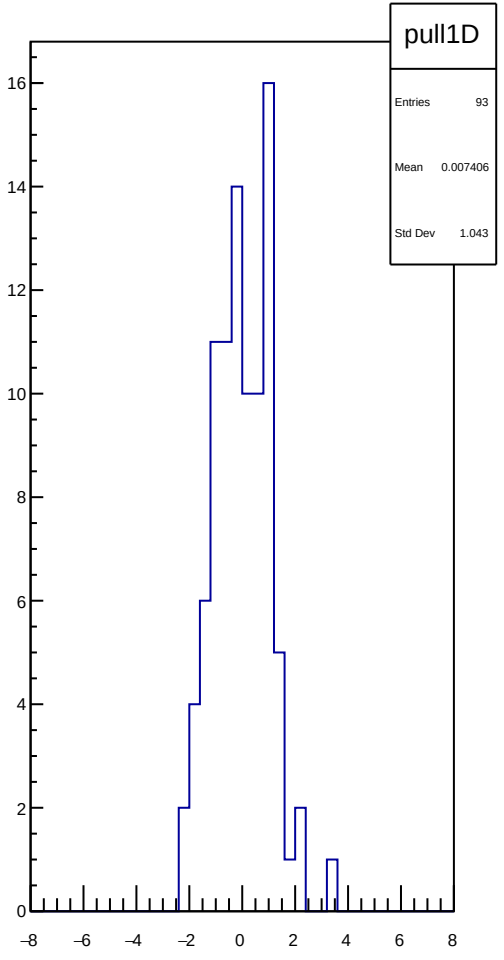

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4082 / 92
p0 7611 ± 5.627
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

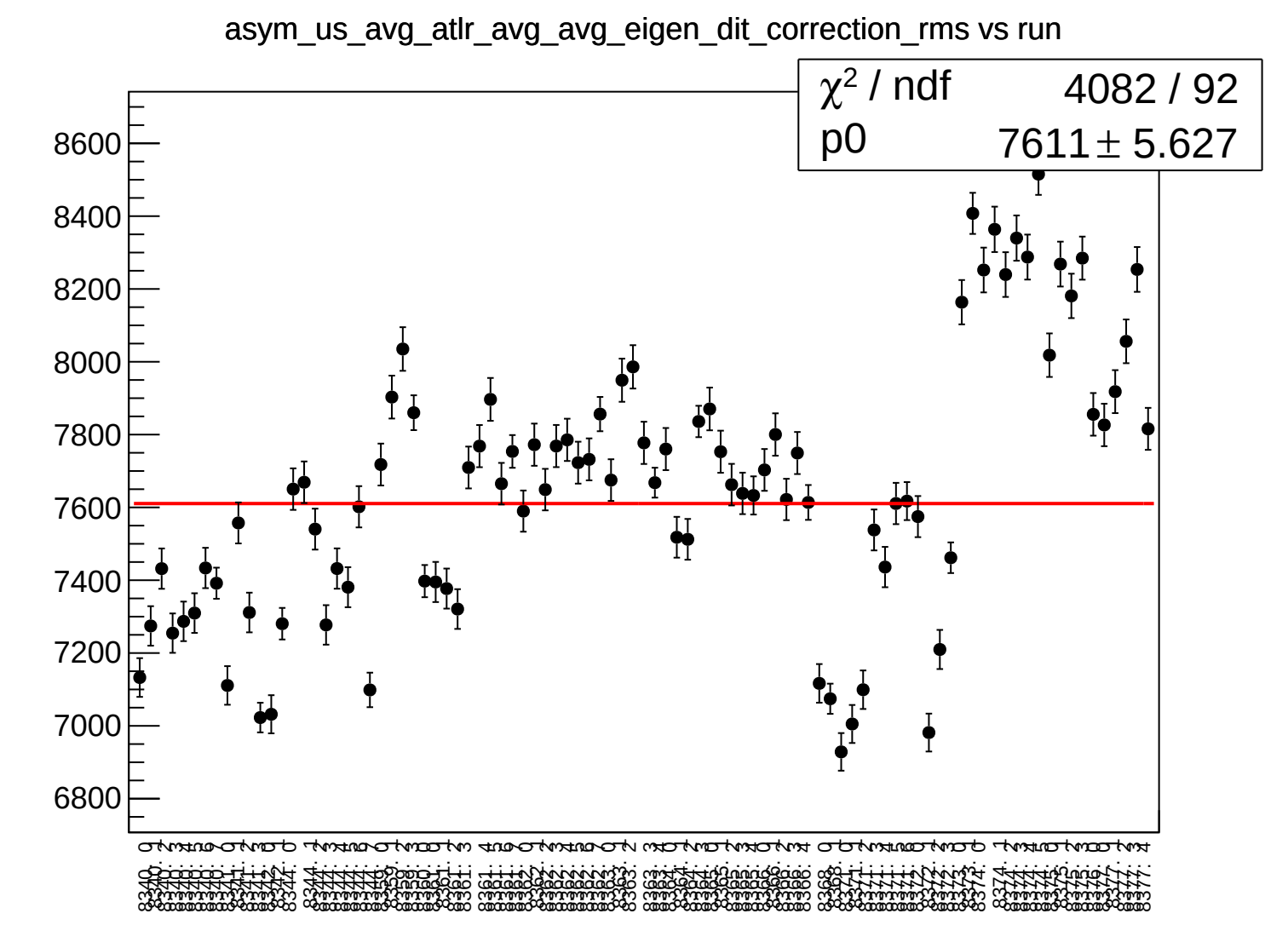

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 68.81 / 92
p0 −2678 ± 1928
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean 1098
Std Dev 0
1
0
−1
−2
−3

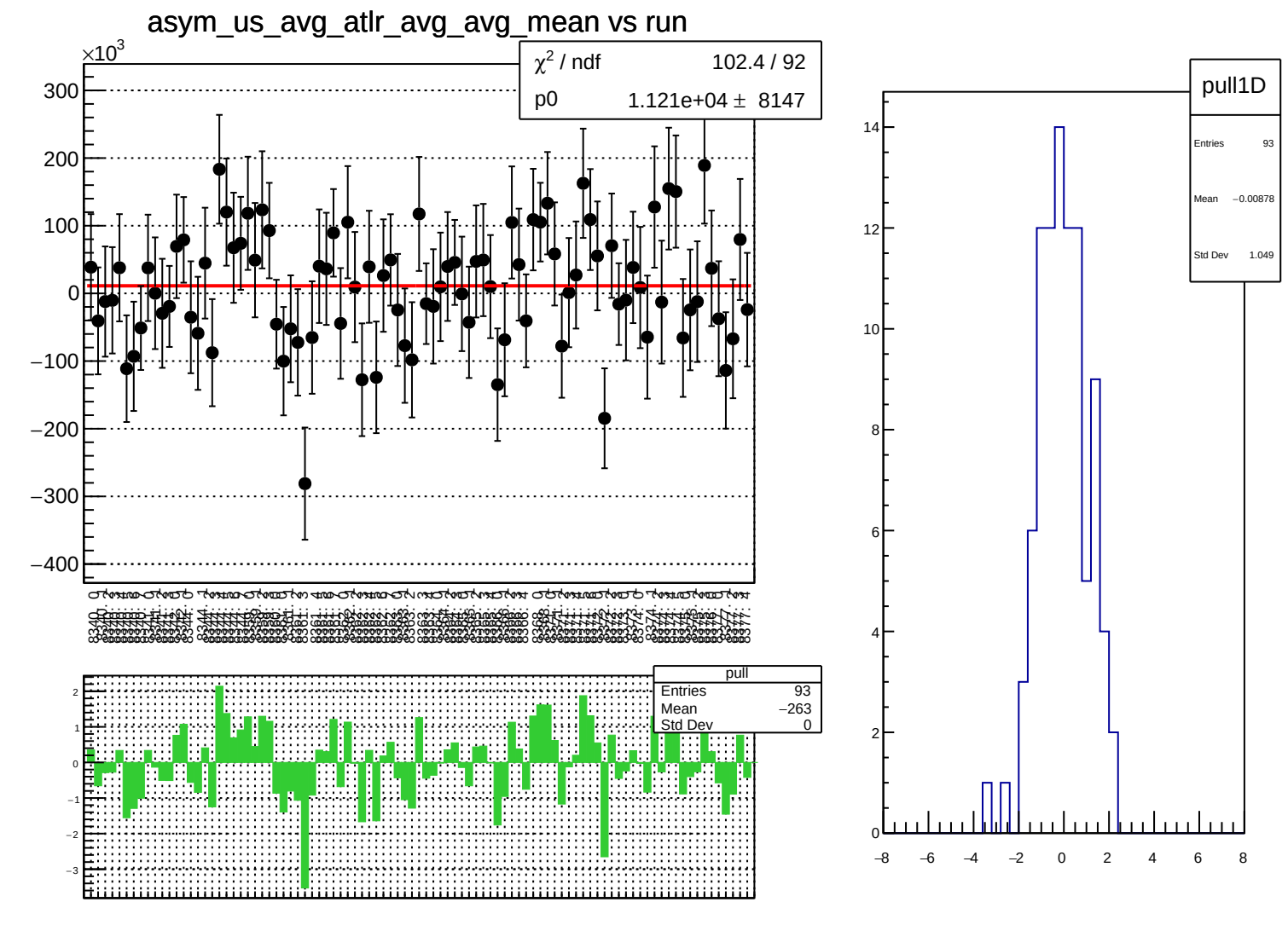

pull1D
Entries 93
Mean −0.002861
Std Dev 0.8602
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

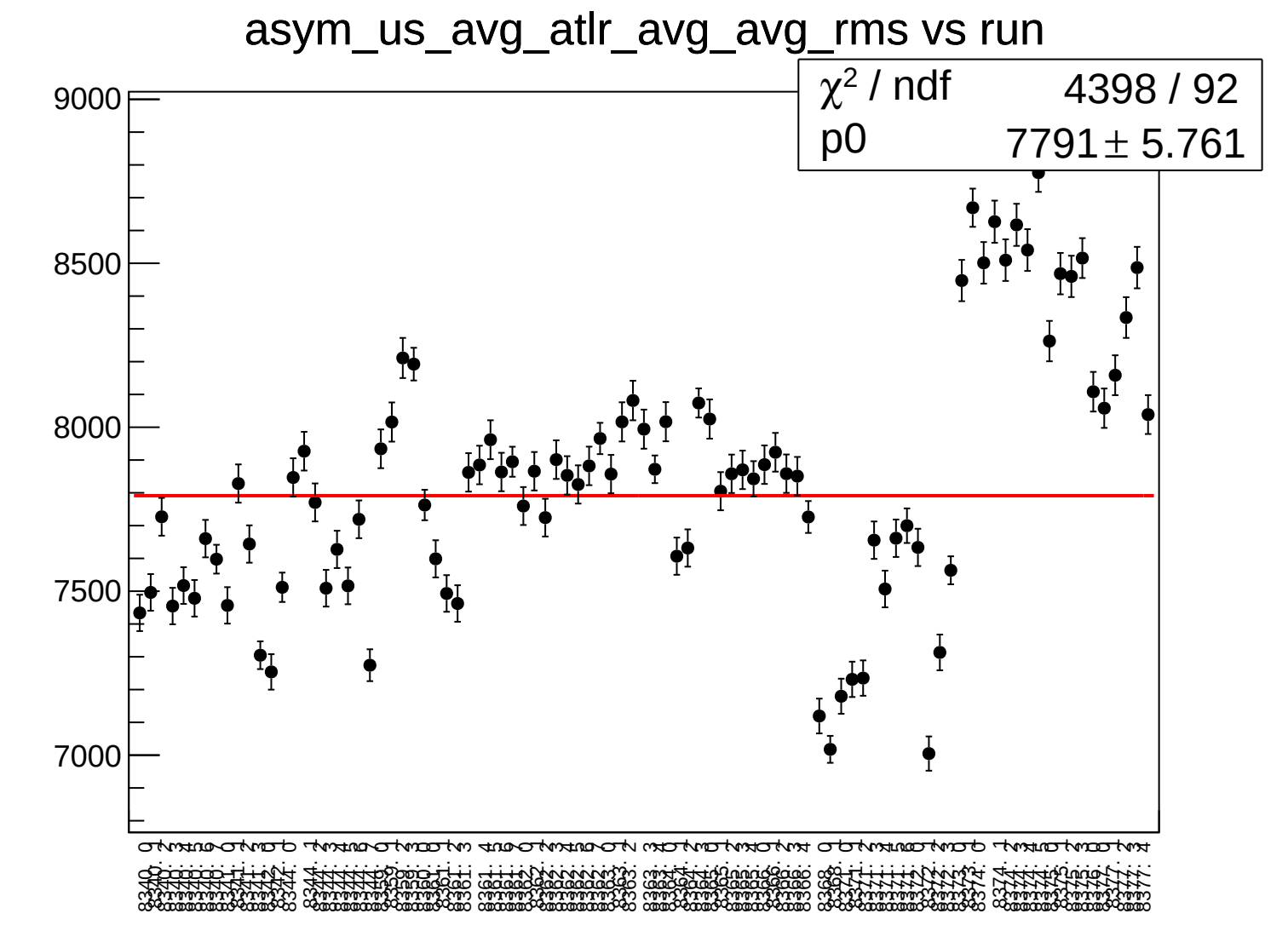

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 758.9 / 92
p0 1846 ± 1.363
1950
1900
1850
1800
1750

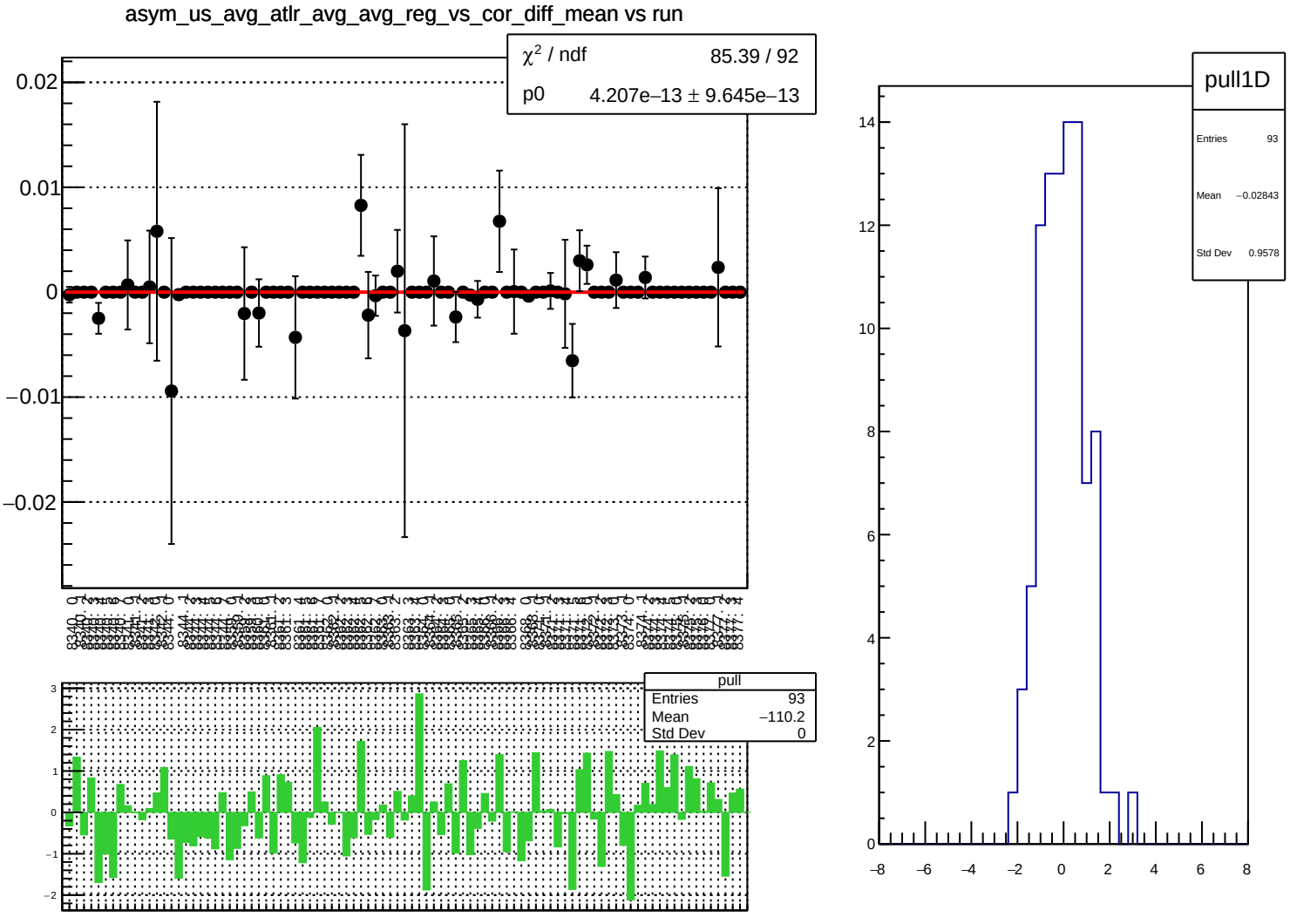

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 −1.378e+04 ± 7957
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −423.7
Std Dev 0
3
2
1
0
−1
−2

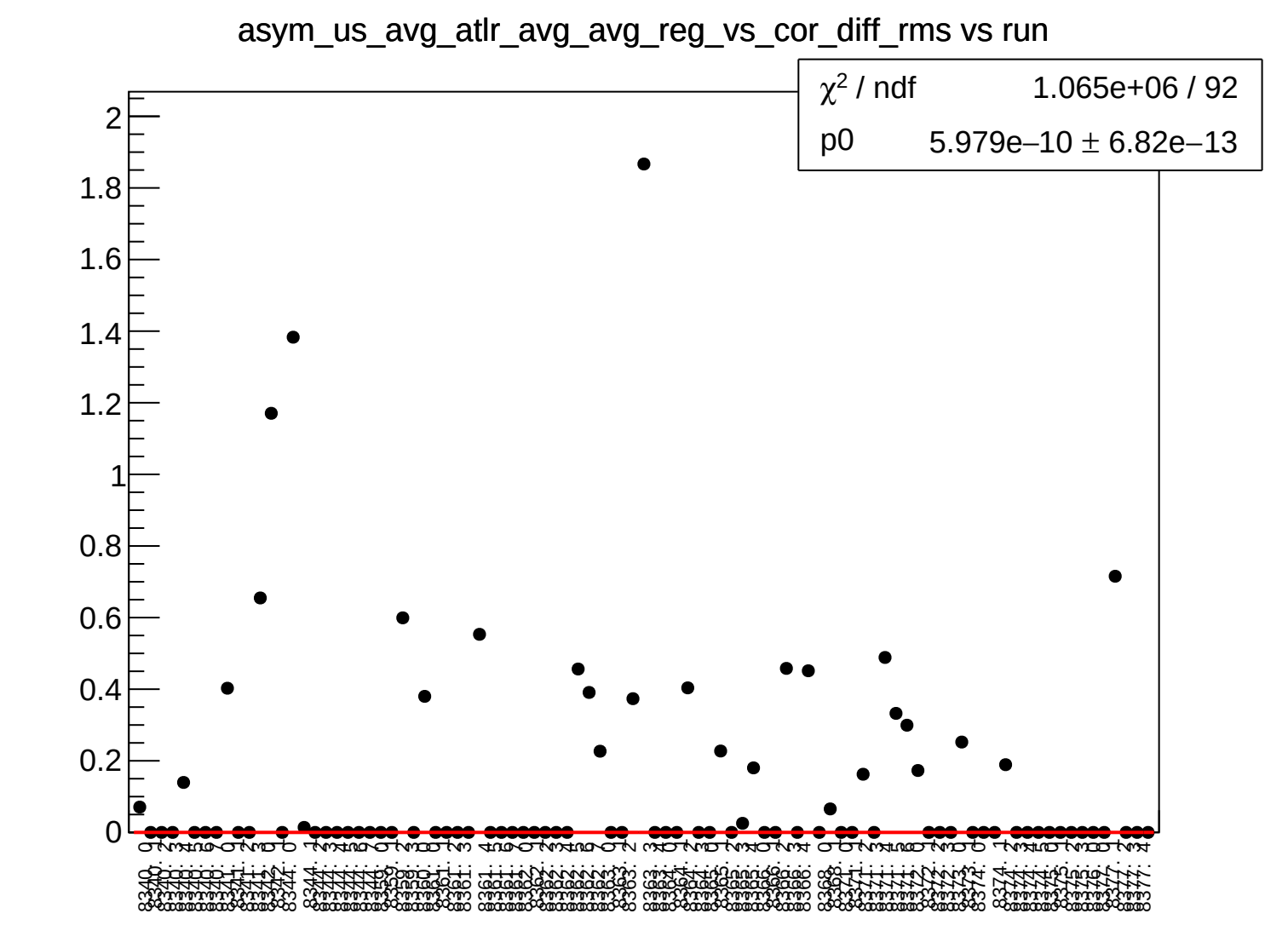

pull1D
Entries 93
Mean 0.007406
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

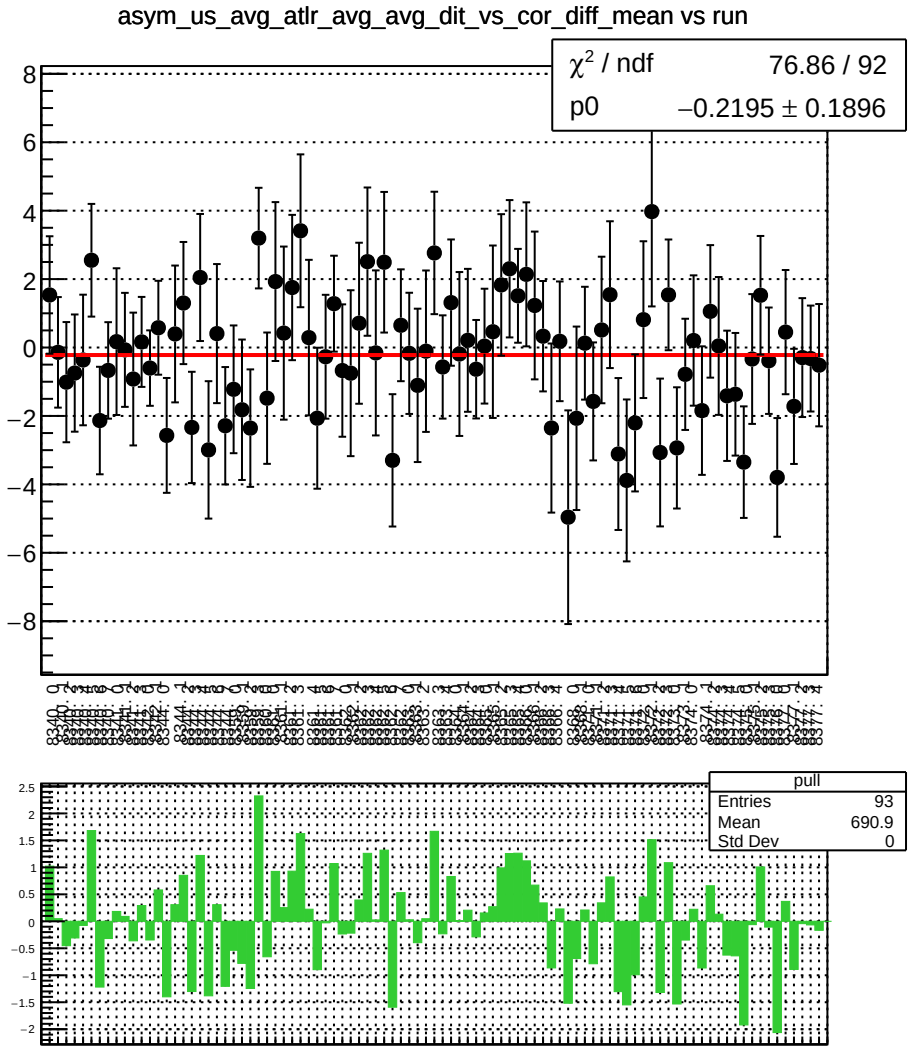

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4082 / 92
p0 7611 ± 5.627
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

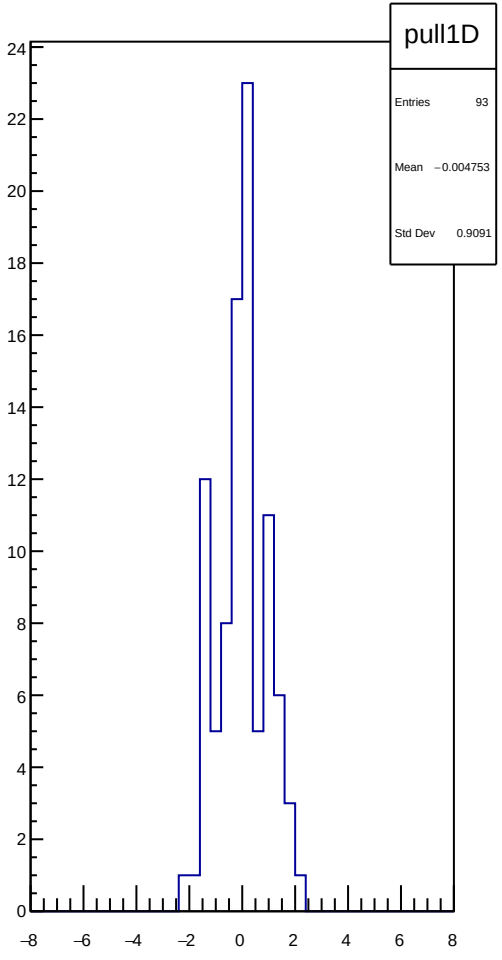

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 102.4 / 92
p0 1.121e+04 ± 8147
300
200
100
0
−100
−200
−300
−400
pull
Entries 93
Mean −263
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00878
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

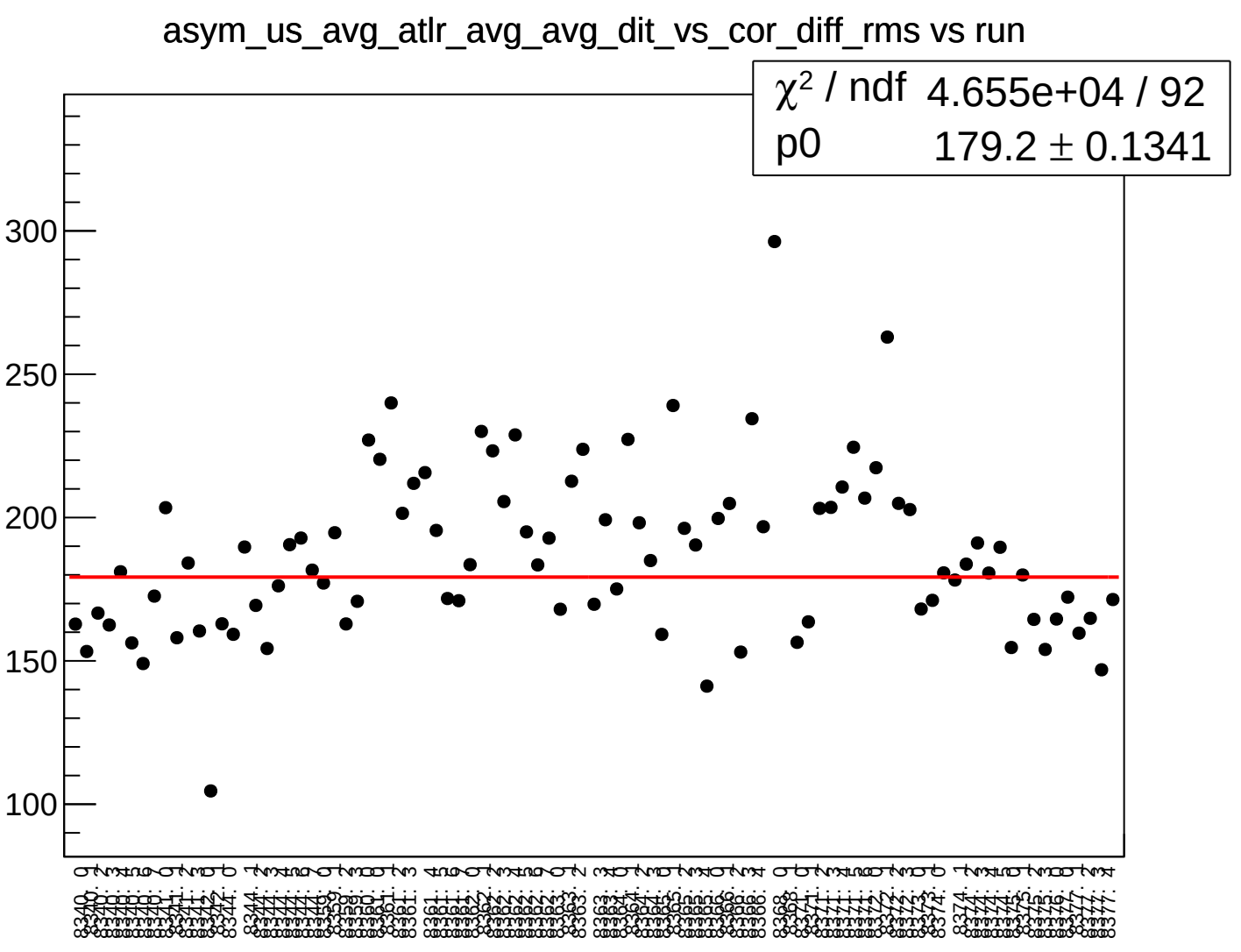

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4398 / 92
p0 7791 ± 5.761
9000
8500
8000
7500
7000

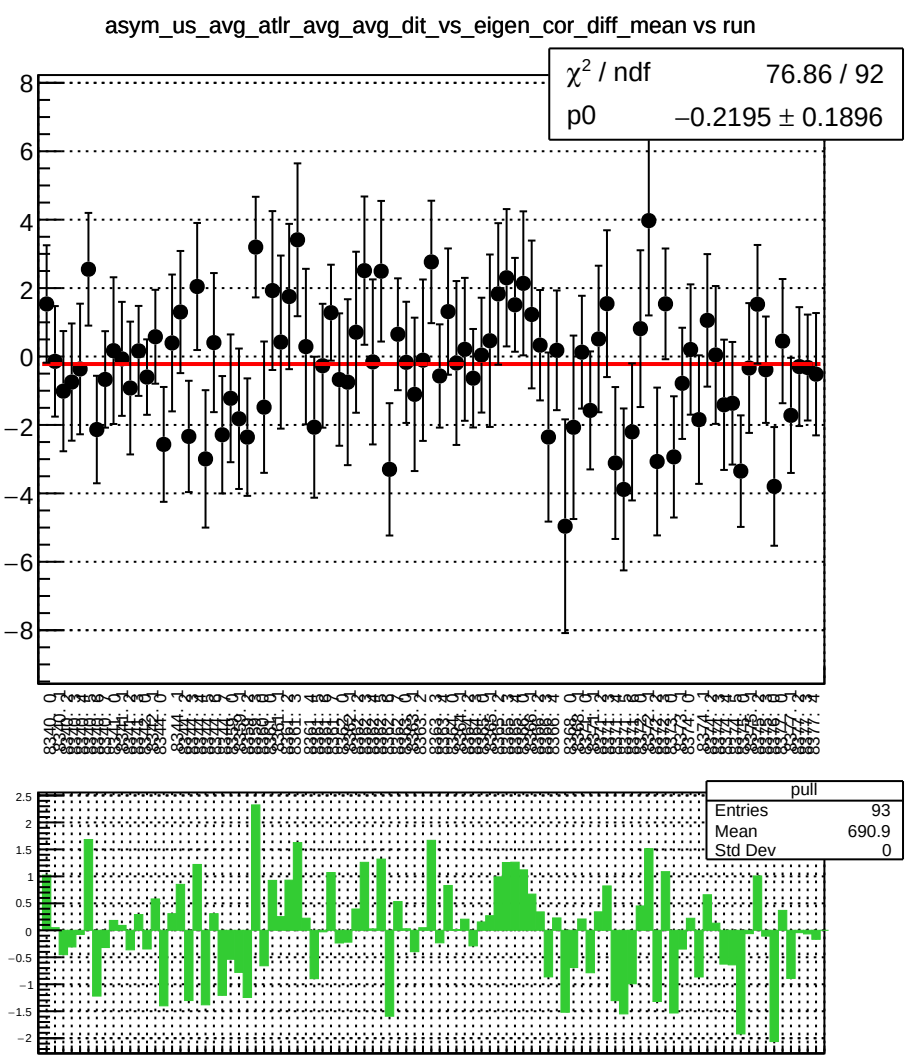

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.39 / 92
p0 4.207e−13 ± 9.645e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean −110.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02843
Std Dev 0.9578
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

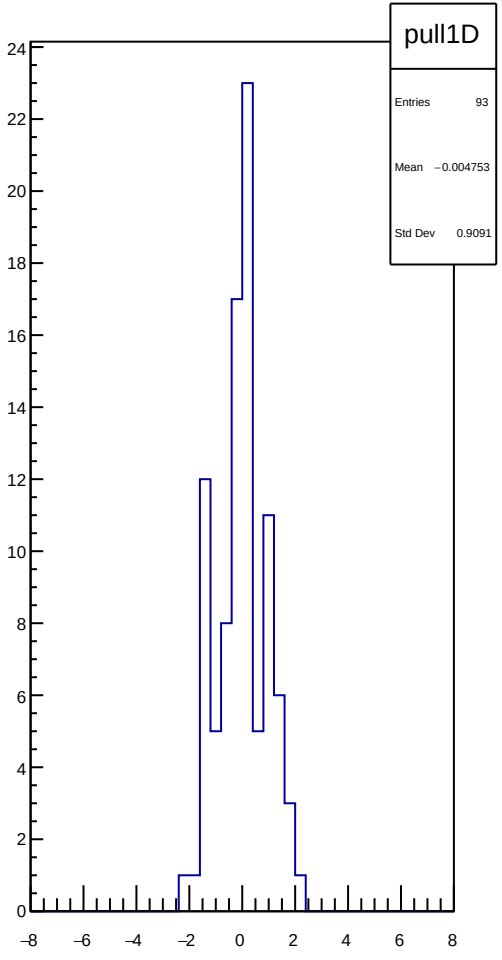

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.065e+06 / 92
p0 5.979e−10 ± 6.82e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

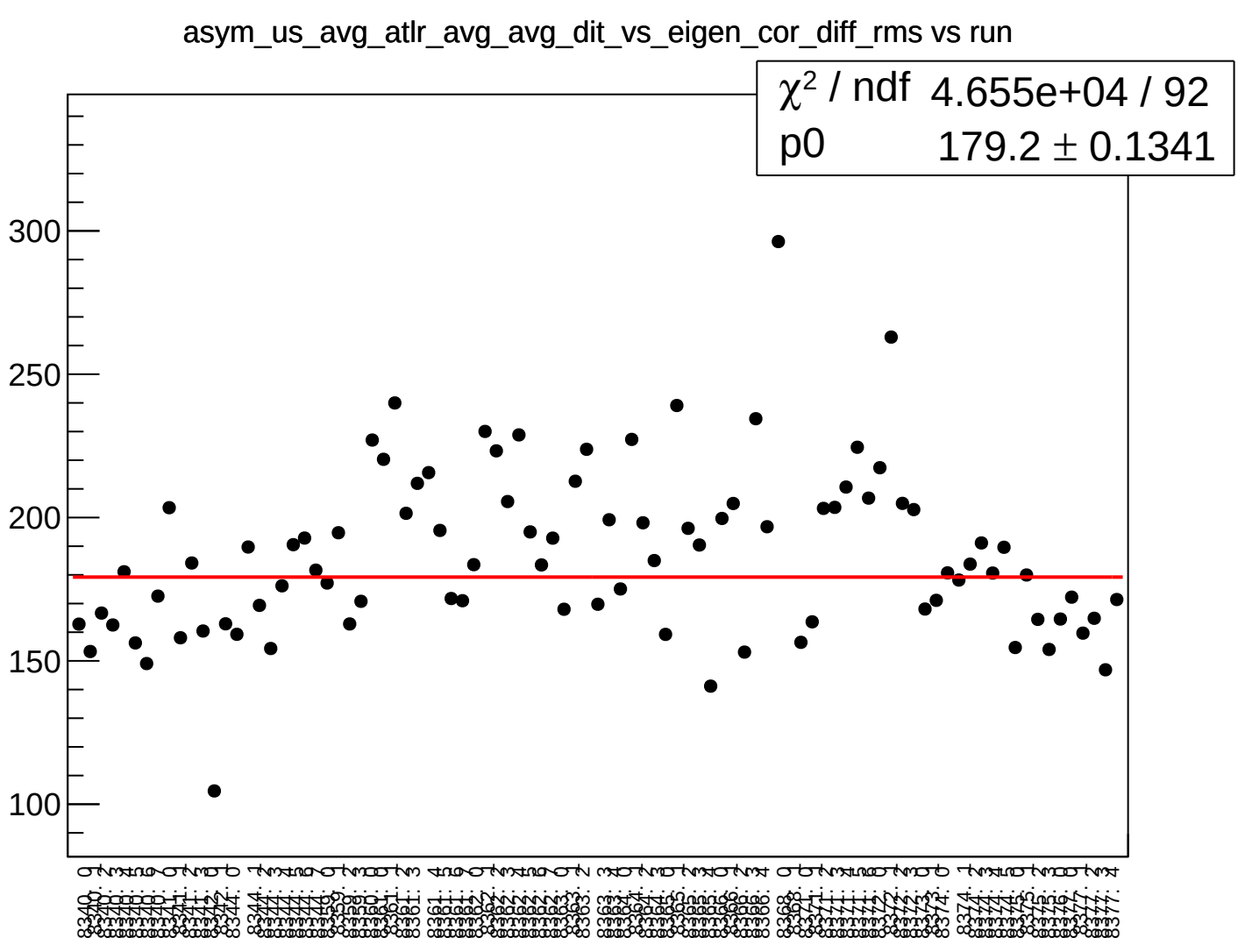

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.86 / 92
p0 −0.2195 ± 0.1896
pull
Entries 93
Mean 690.9
Std Dev 0

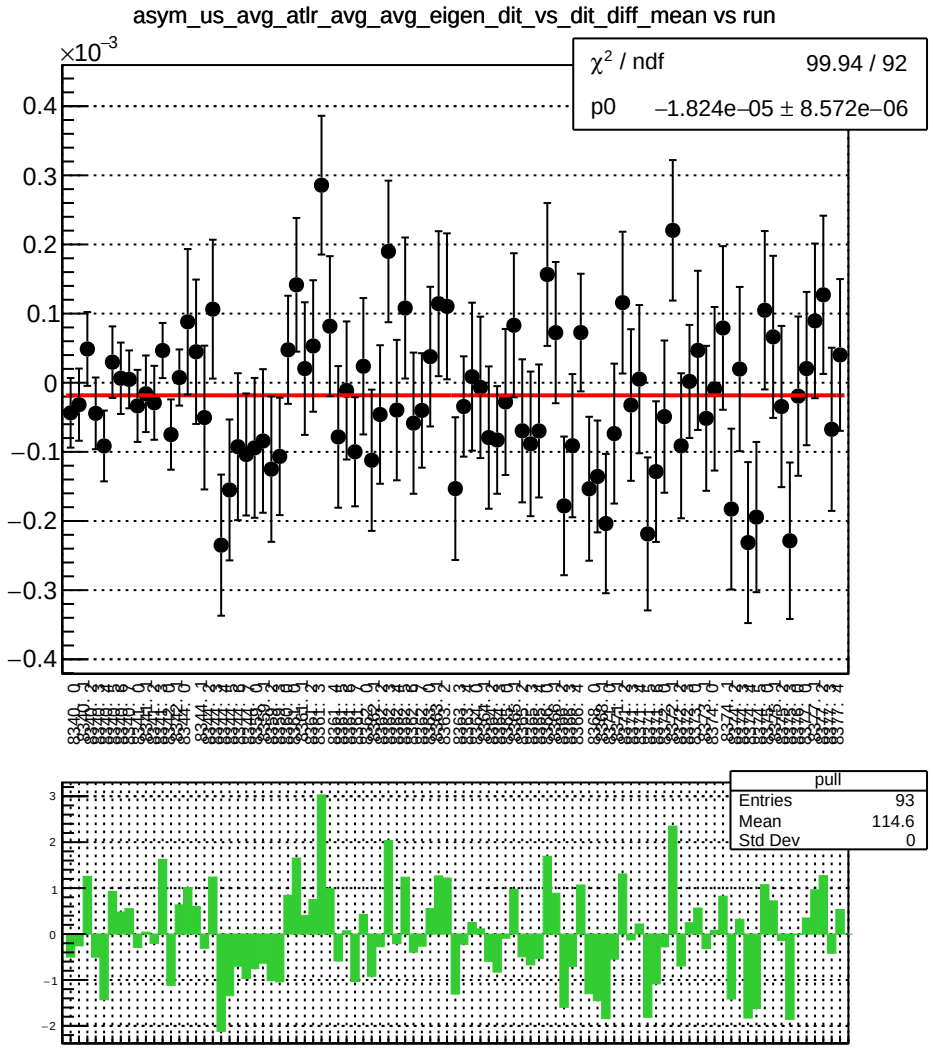

pull1D
Entries 93
Mean −0.004753
Std Dev 0.9091

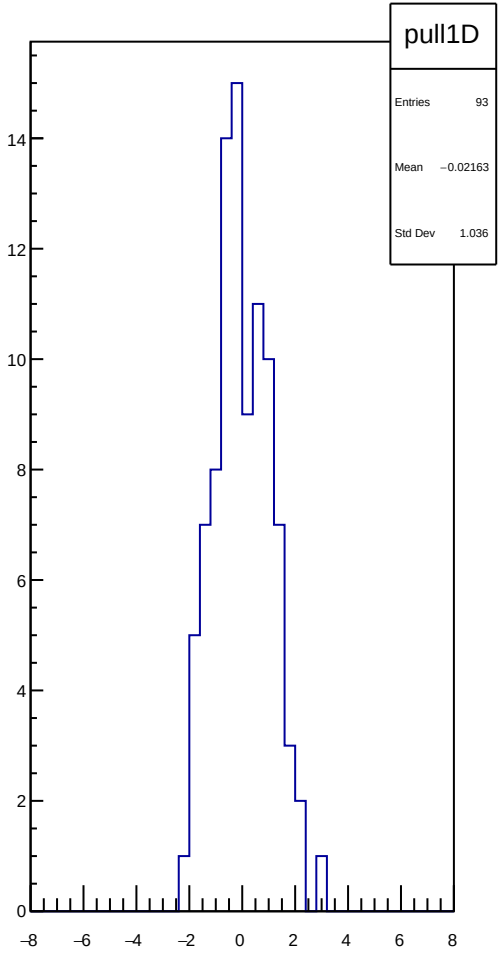

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.655e+04 / 92
p0 179.2 ± 0.1341
300
250
200
150
100

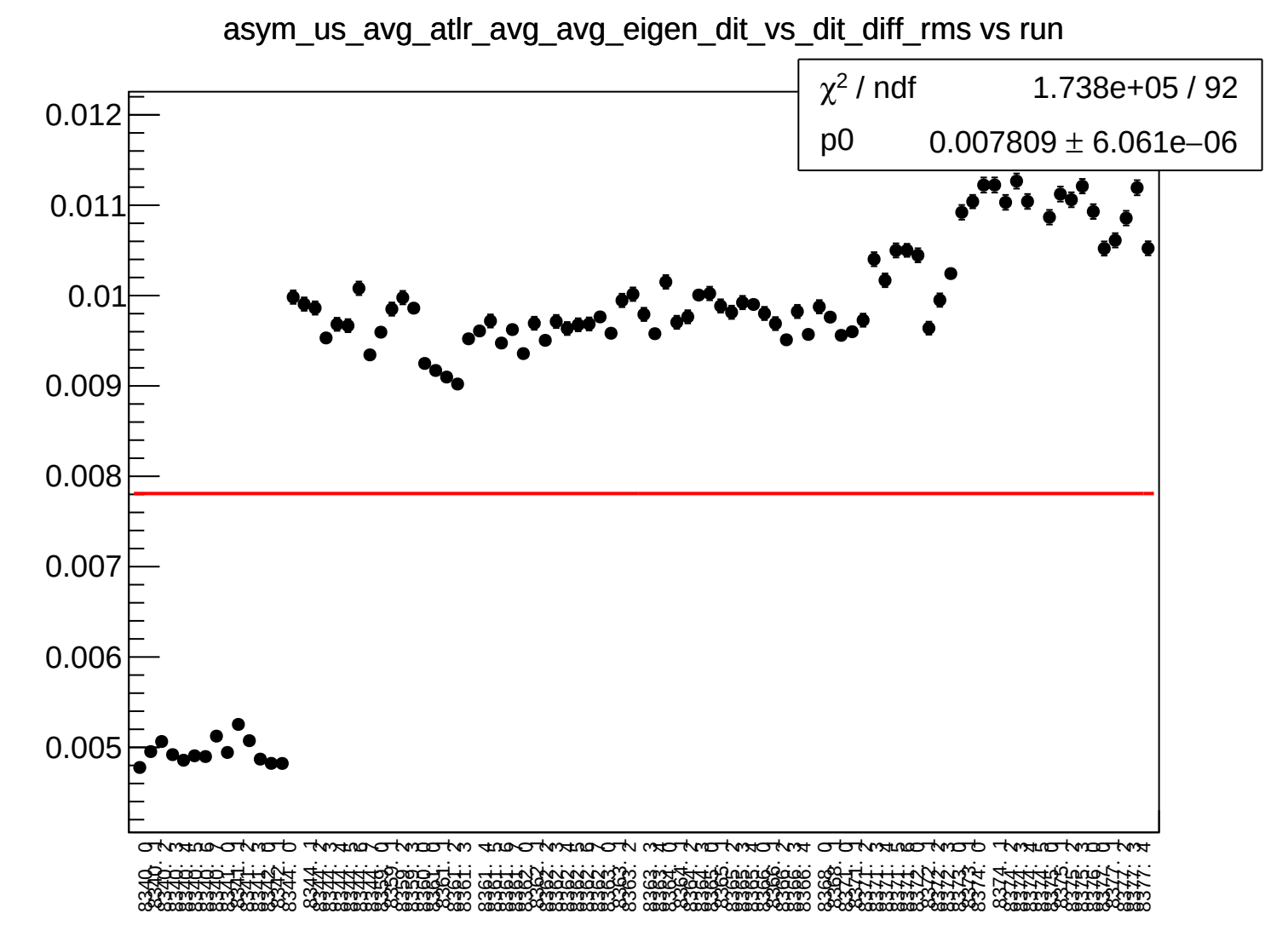

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.86 / 92
p0 −0.2195 ± 0.1896
pull
Entries 93
Mean 690.9
Std Dev 0

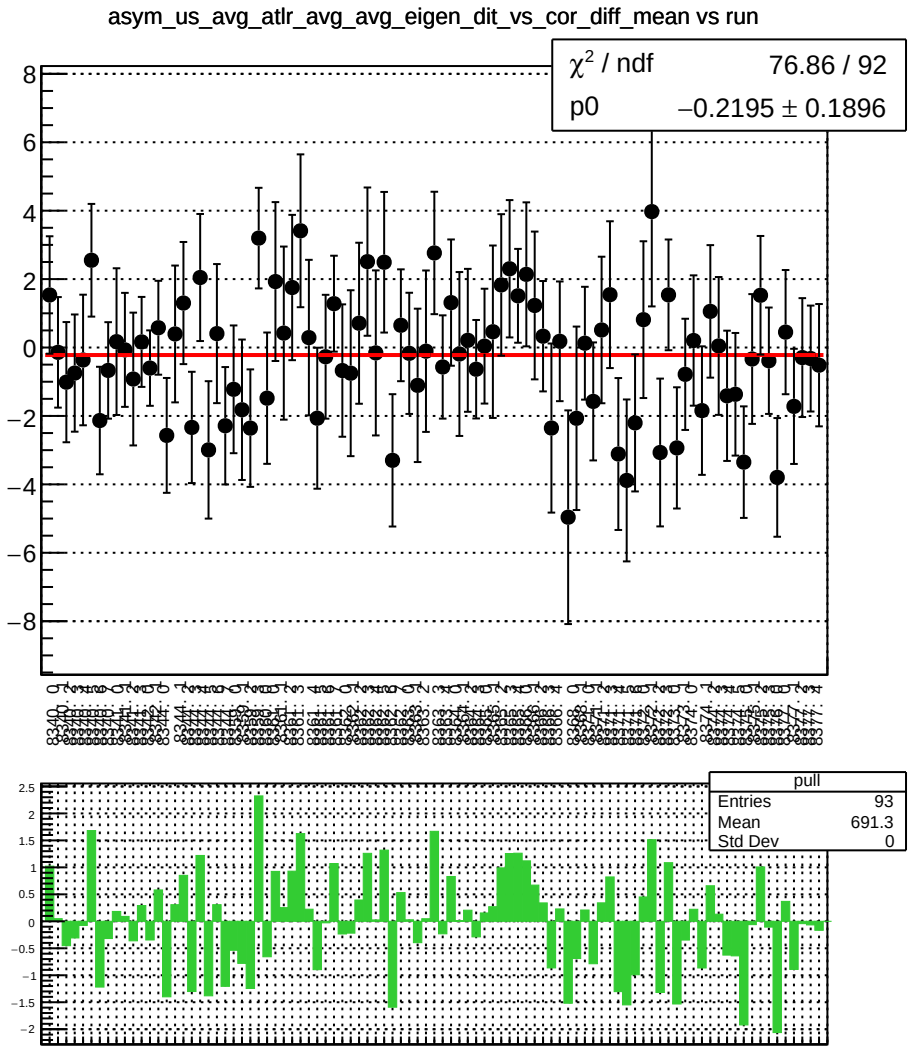

pull1D
Entries 93
Mean −0.004753
Std Dev 0.9091

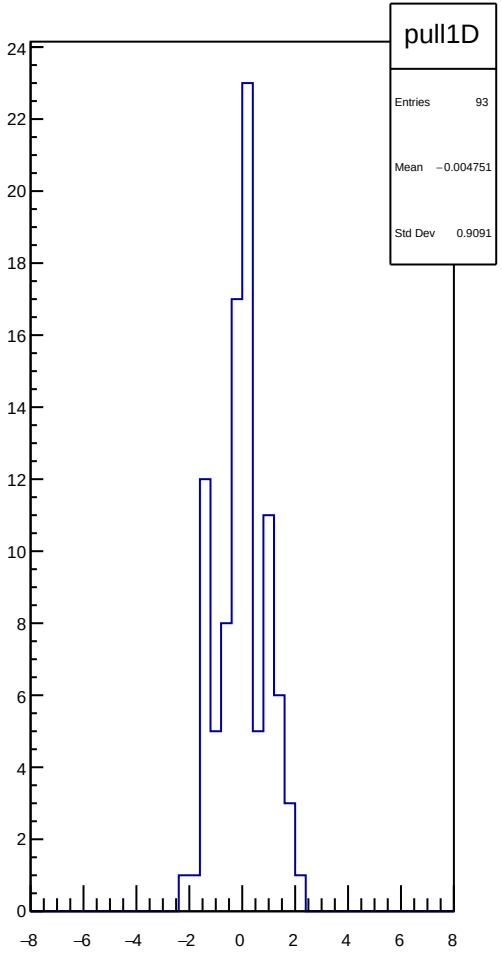

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.655e+04 / 92
p0 179.2 ± 0.1341
300
250
200
150
100

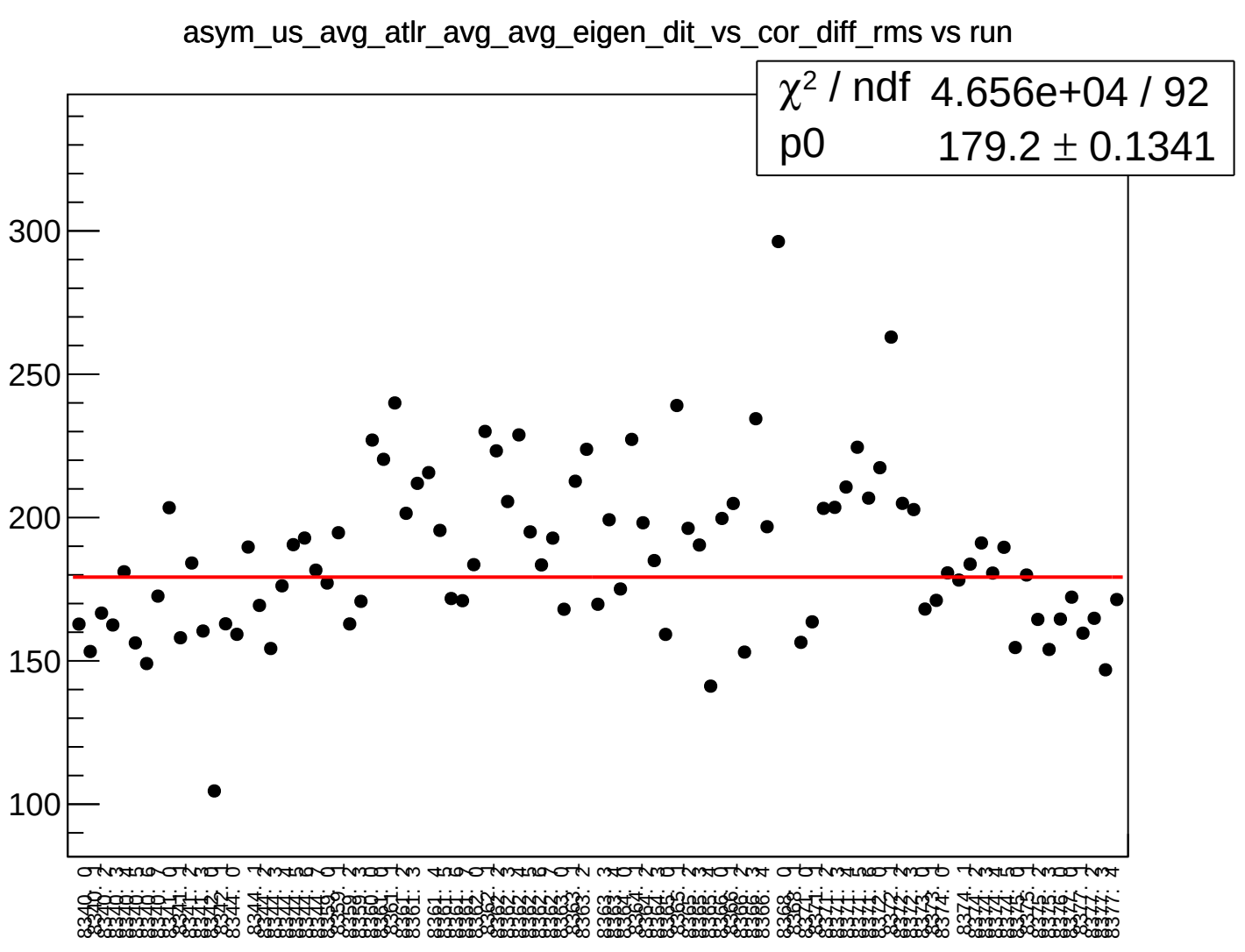

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.94 / 92
p0 −1.824e−05 ± 8.572e−06
pull
Entries 93
Mean 114.6
Std Dev 0

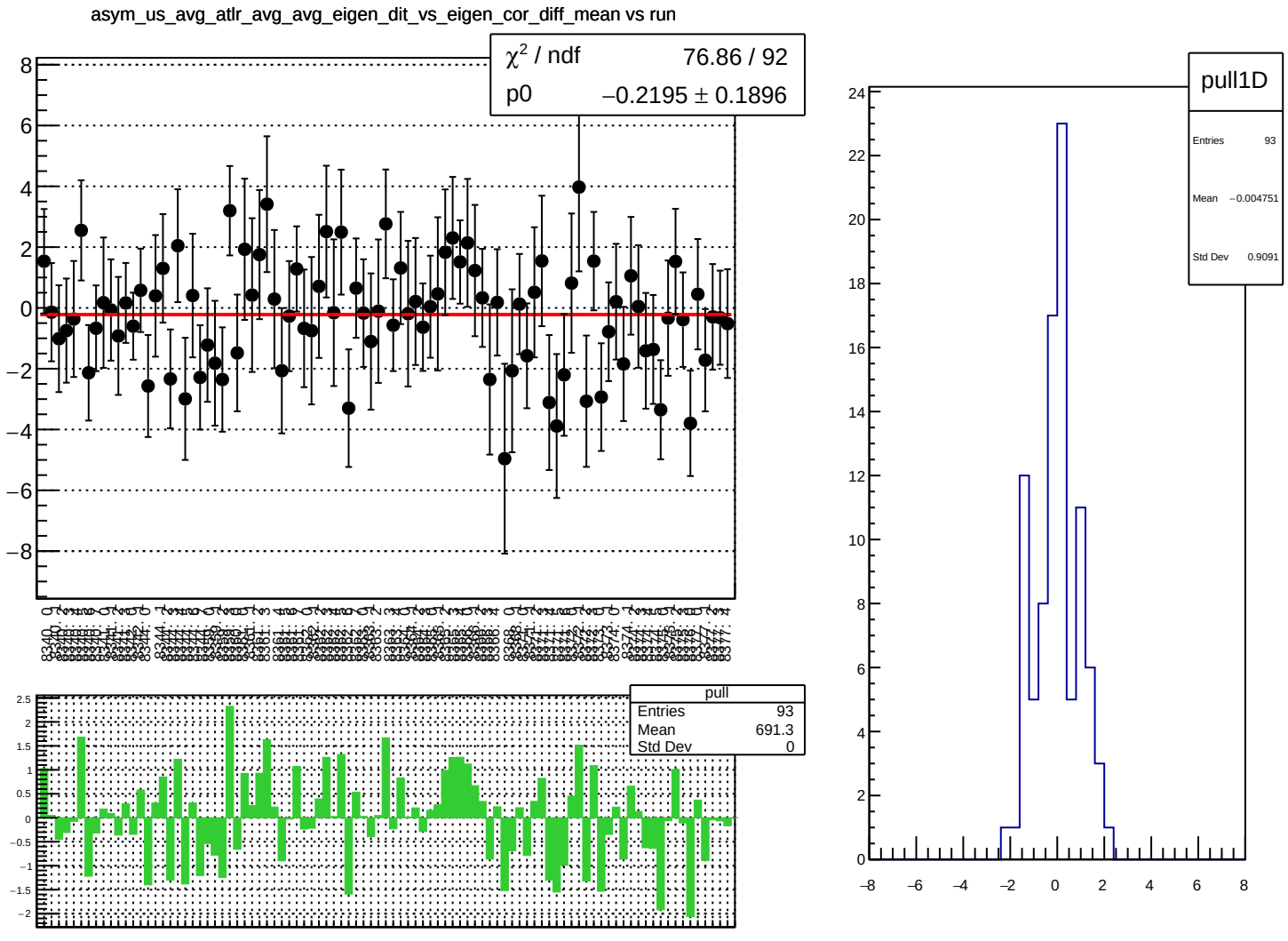

pull1D
Entries 93
Mean −0.02163
Std Dev 1.036

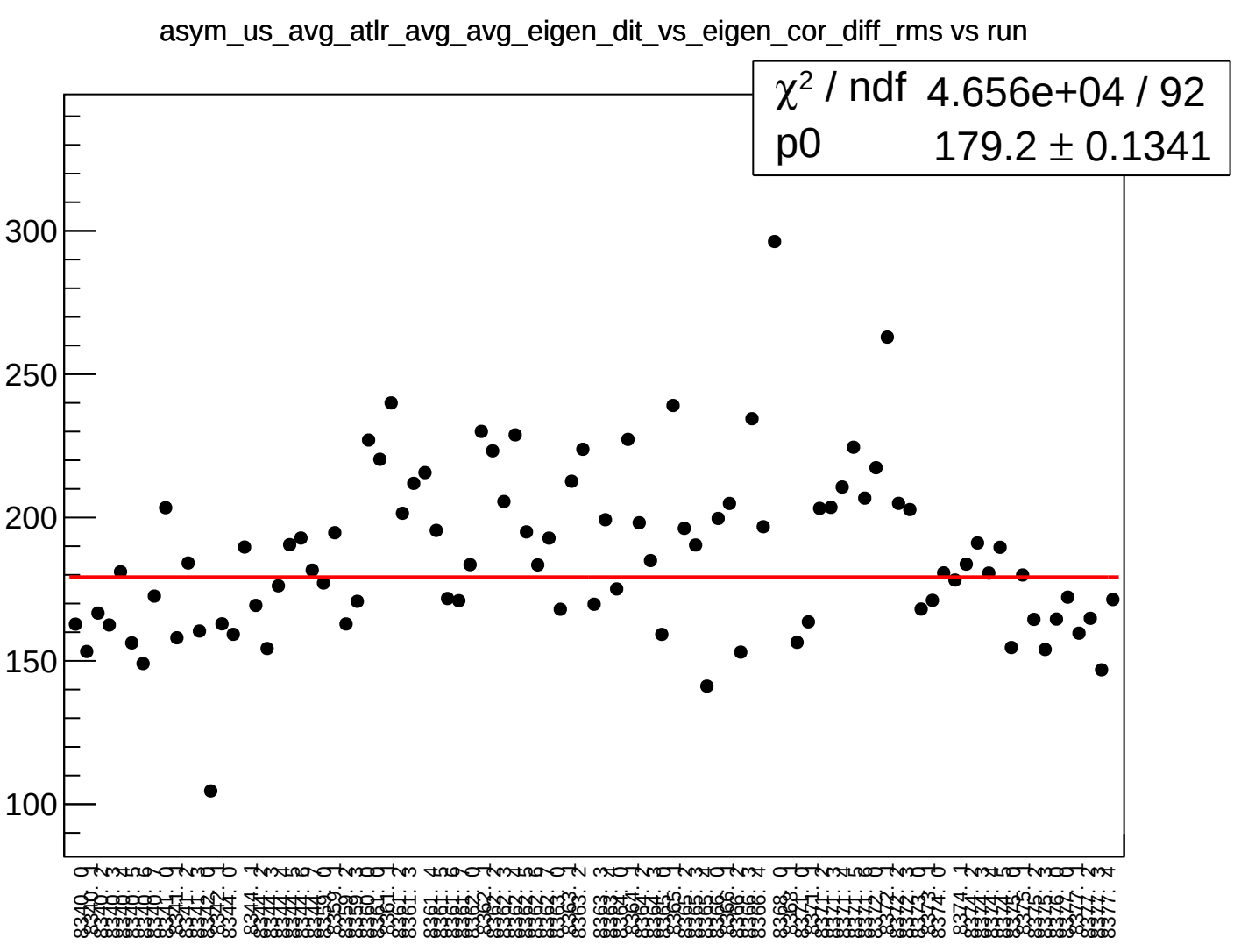

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.738e+05 / 92
p0 0.007809 ± 6.061e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

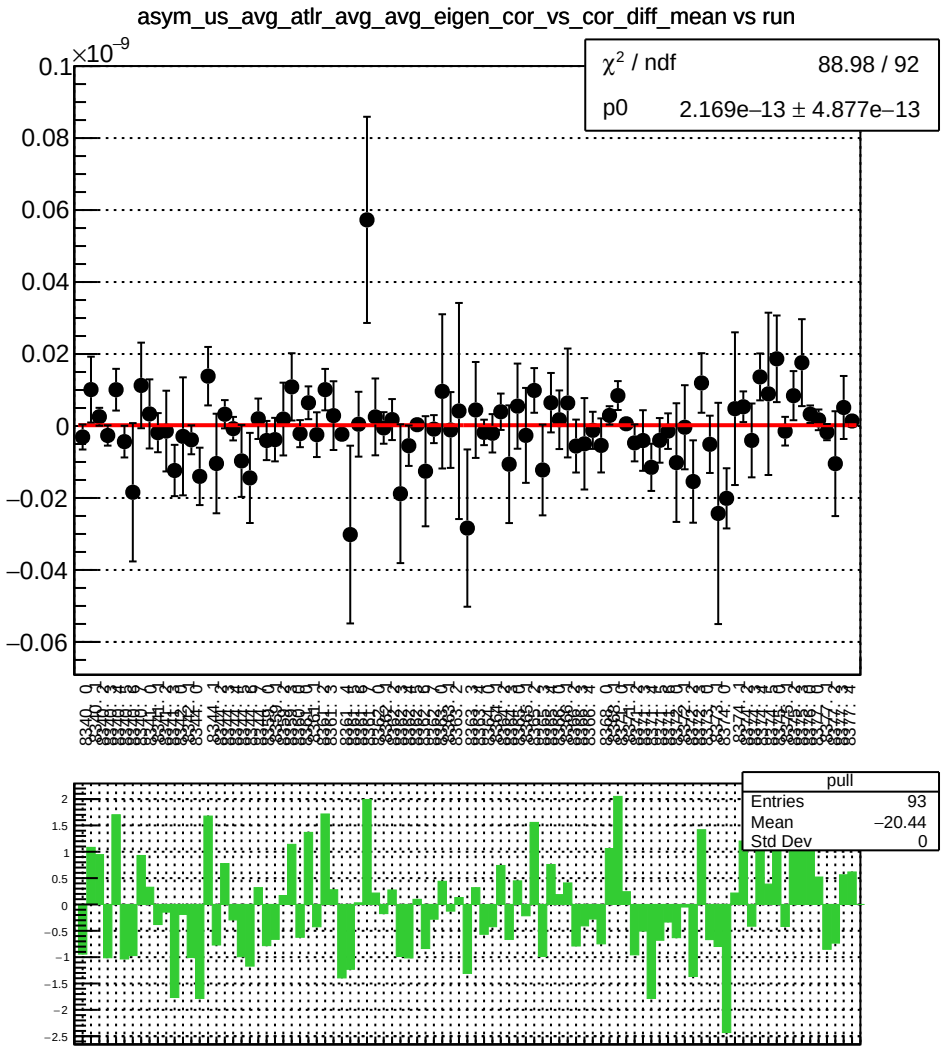

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.86 / 92
p0 −0.2195 ± 0.1896
pull
Entries 93
Mean 691.3
Std Dev 0

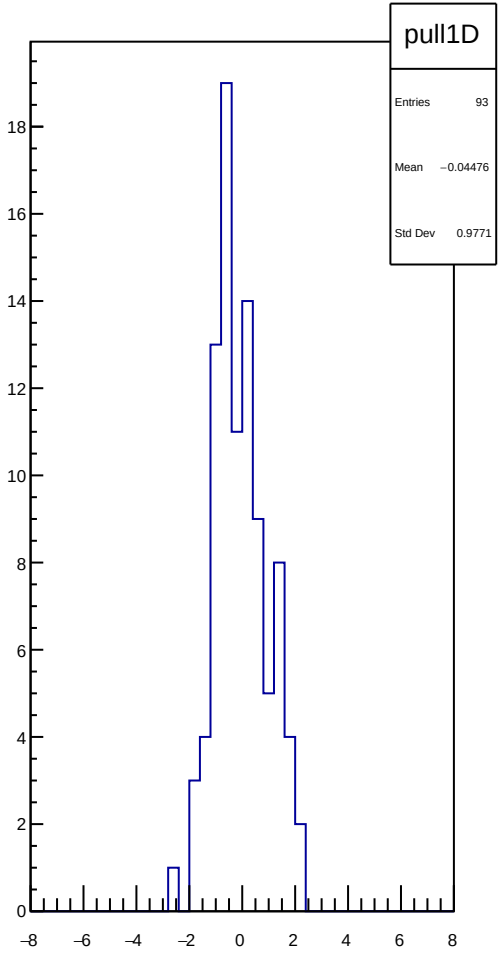

pull1D
Entries 93
Mean −0.004751
Std Dev 0.9091

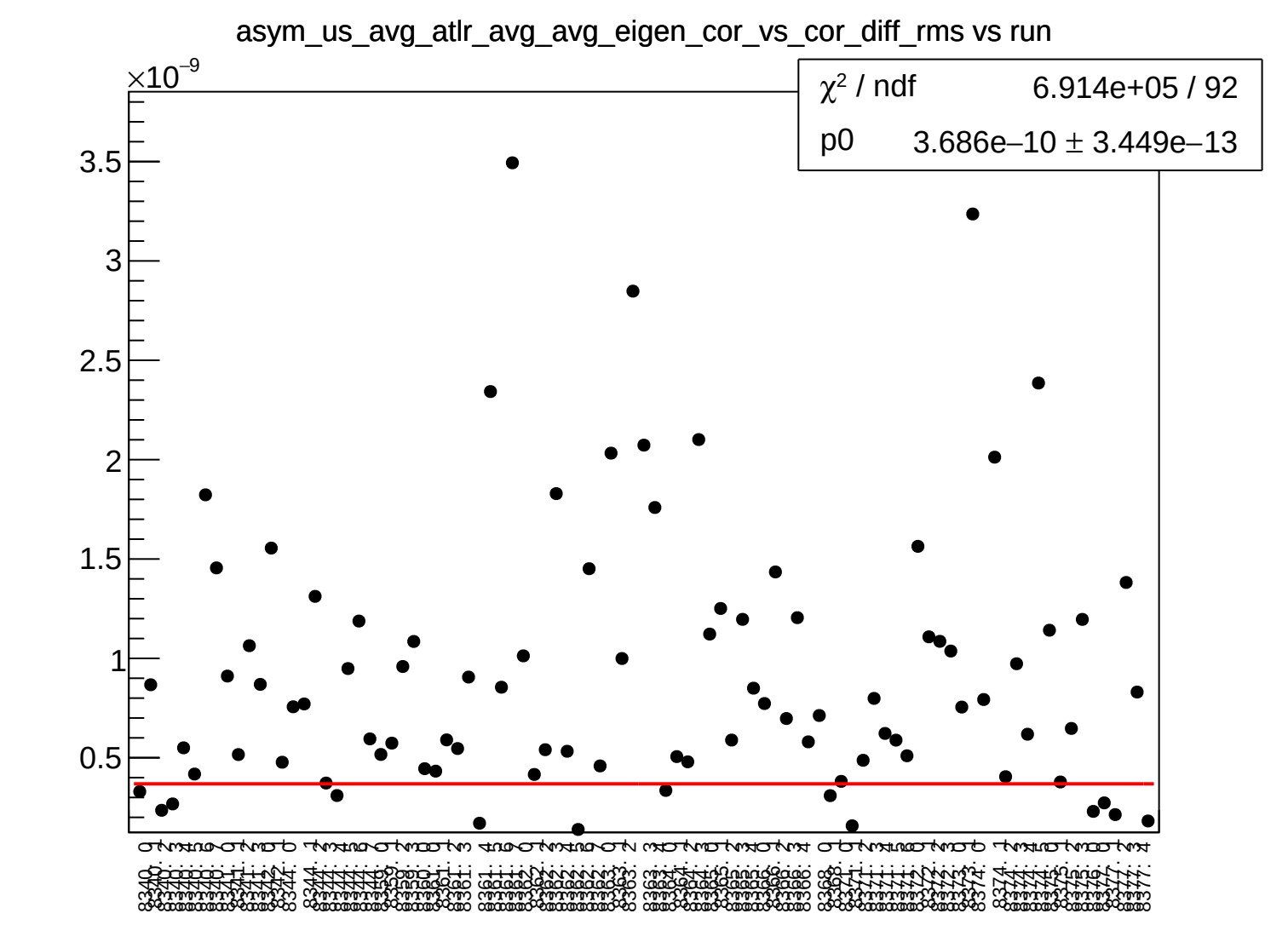

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 92
p0 179.2 ± 0.1341
300
250
200
150
100

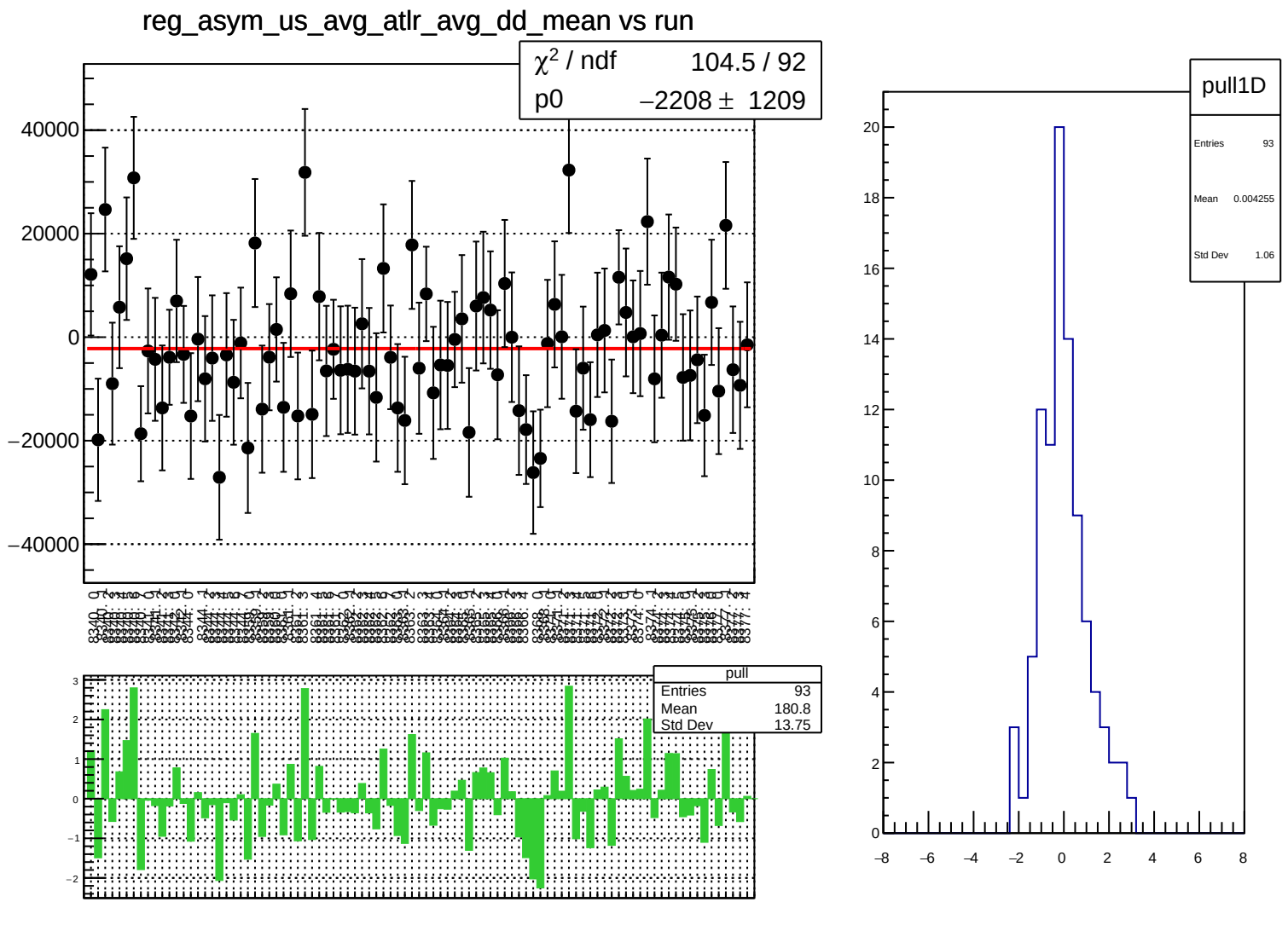

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.86 / 92
p0 −0.2195 ± 0.1896
pull
Entries 93
Mean 691.3
Std Dev 0
pull1D
Entries 93
Mean −0.004751
Std Dev 0.9091

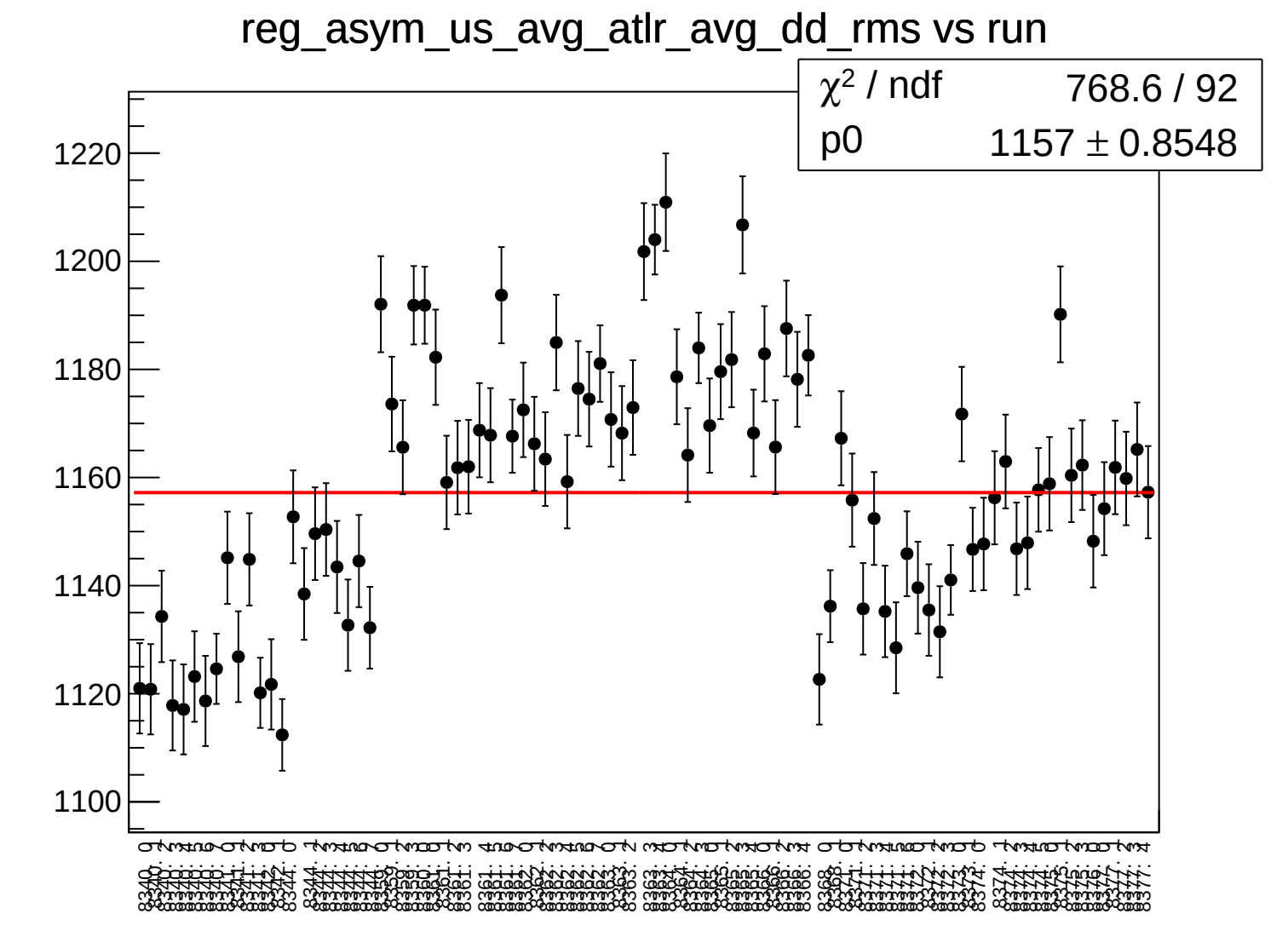

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.656e+04 / 92
p0 179.2 ± 0.1341
300
250
200
150
100

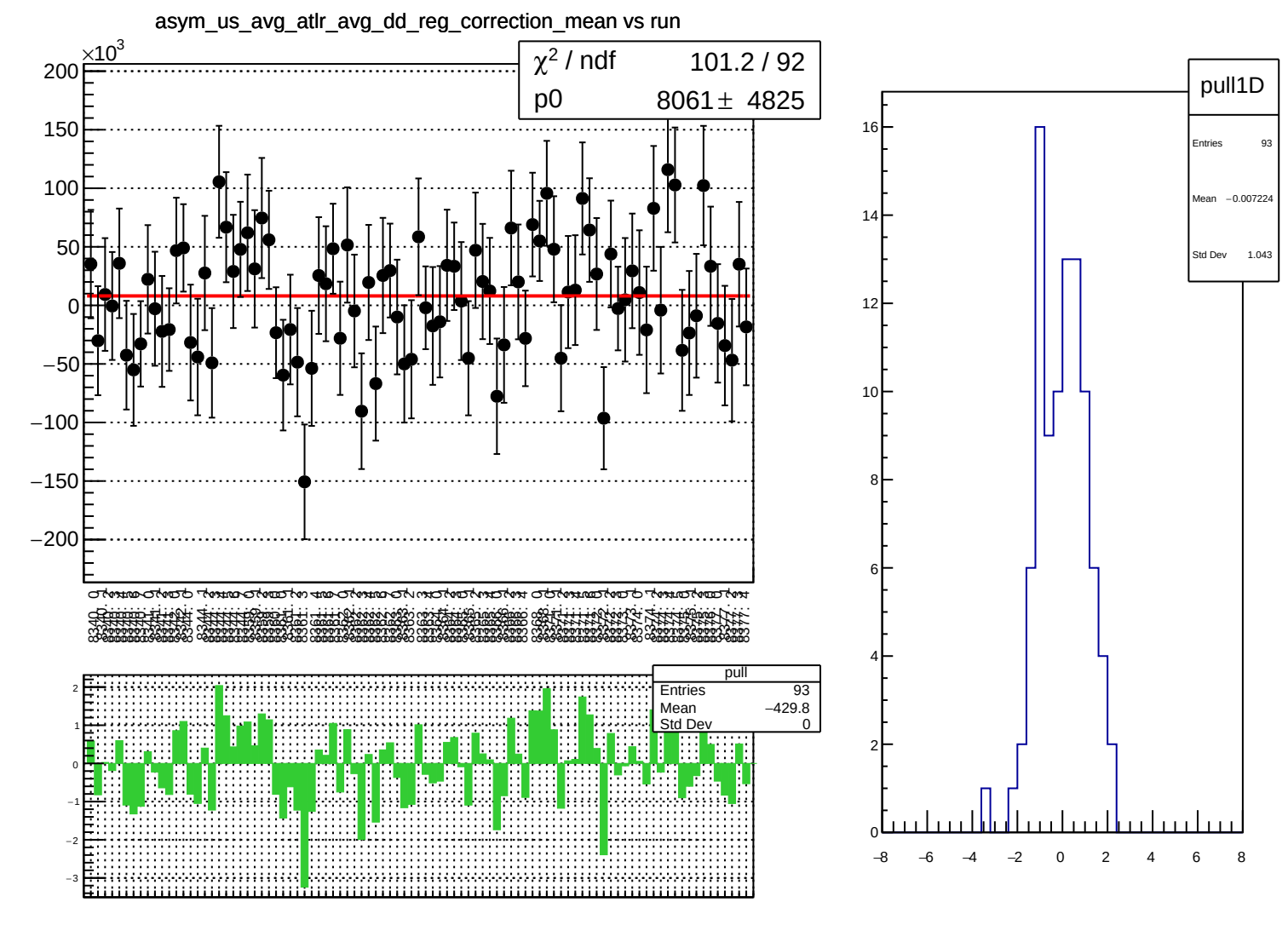

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
χ² / ndf 88.98 / 92
p0 2.169e−13 ± 4.877e−13
×10⁻⁹
pull
Entries 93
Mean −20.44
Std Dev 0

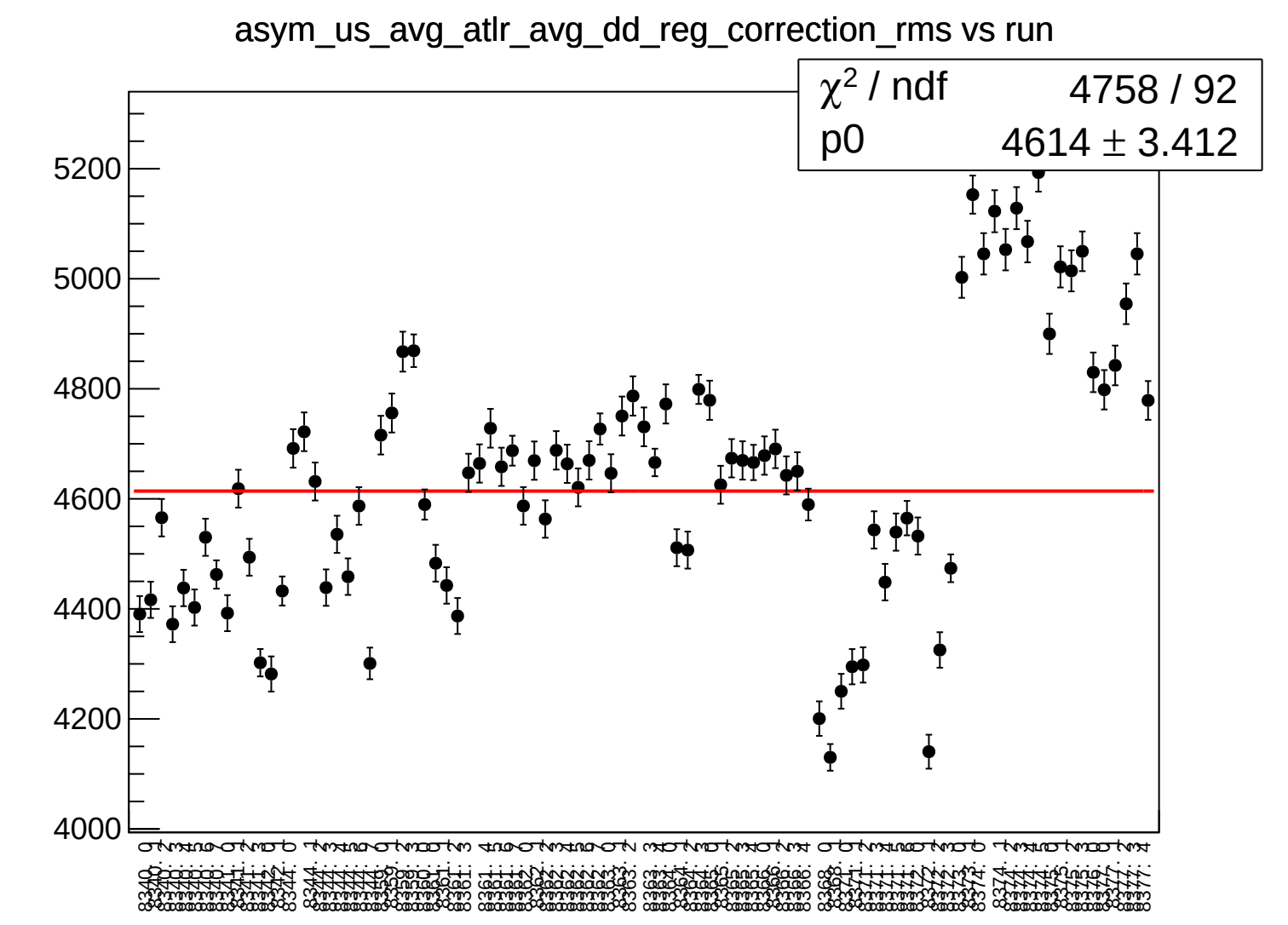

pull1D
Entries 93
Mean −0.04476
Std Dev 0.9771

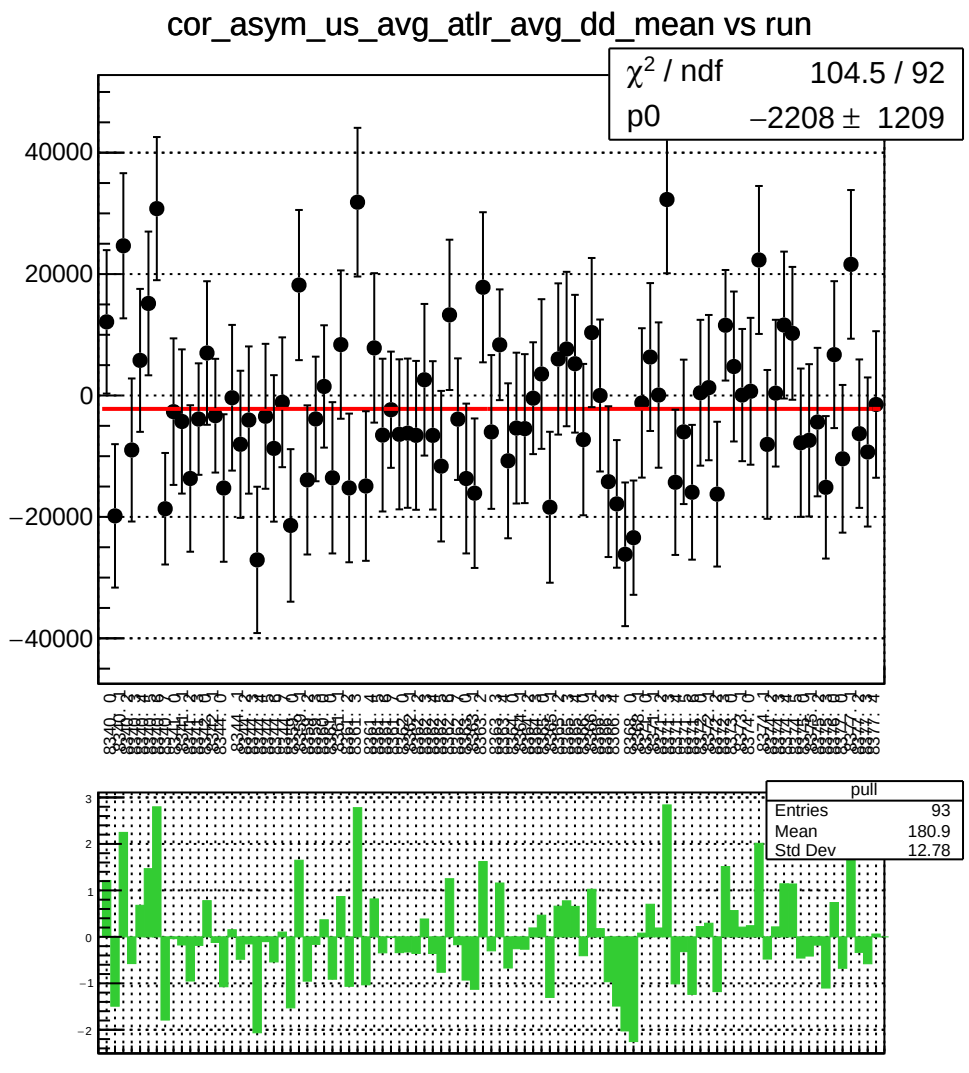

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.914e+05 / 92
p0 3.686e−10 ± 3.449e−13
3.5
3
2.5
2
1.5
1
0.5

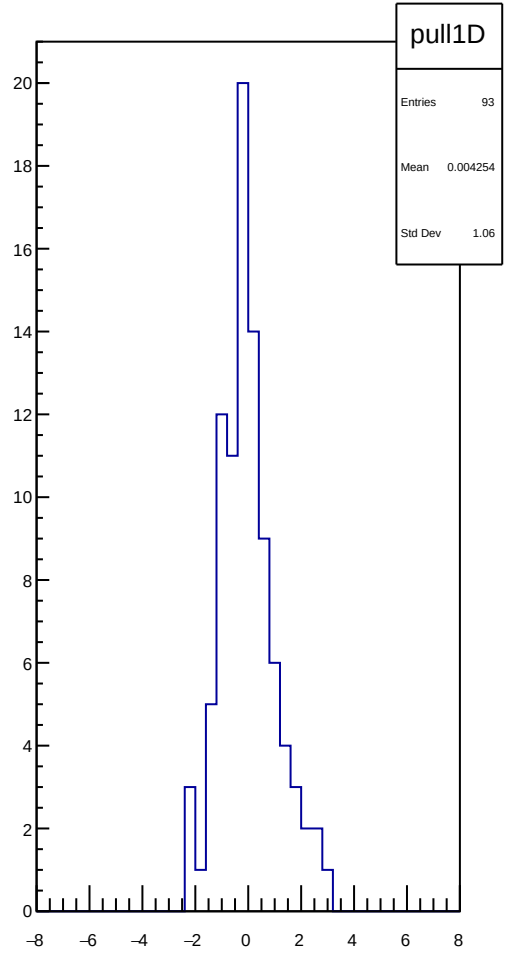

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 104.5 / 92
p0 −2208 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 180.8
Std Dev 13.75
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004255
Std Dev 1.06
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

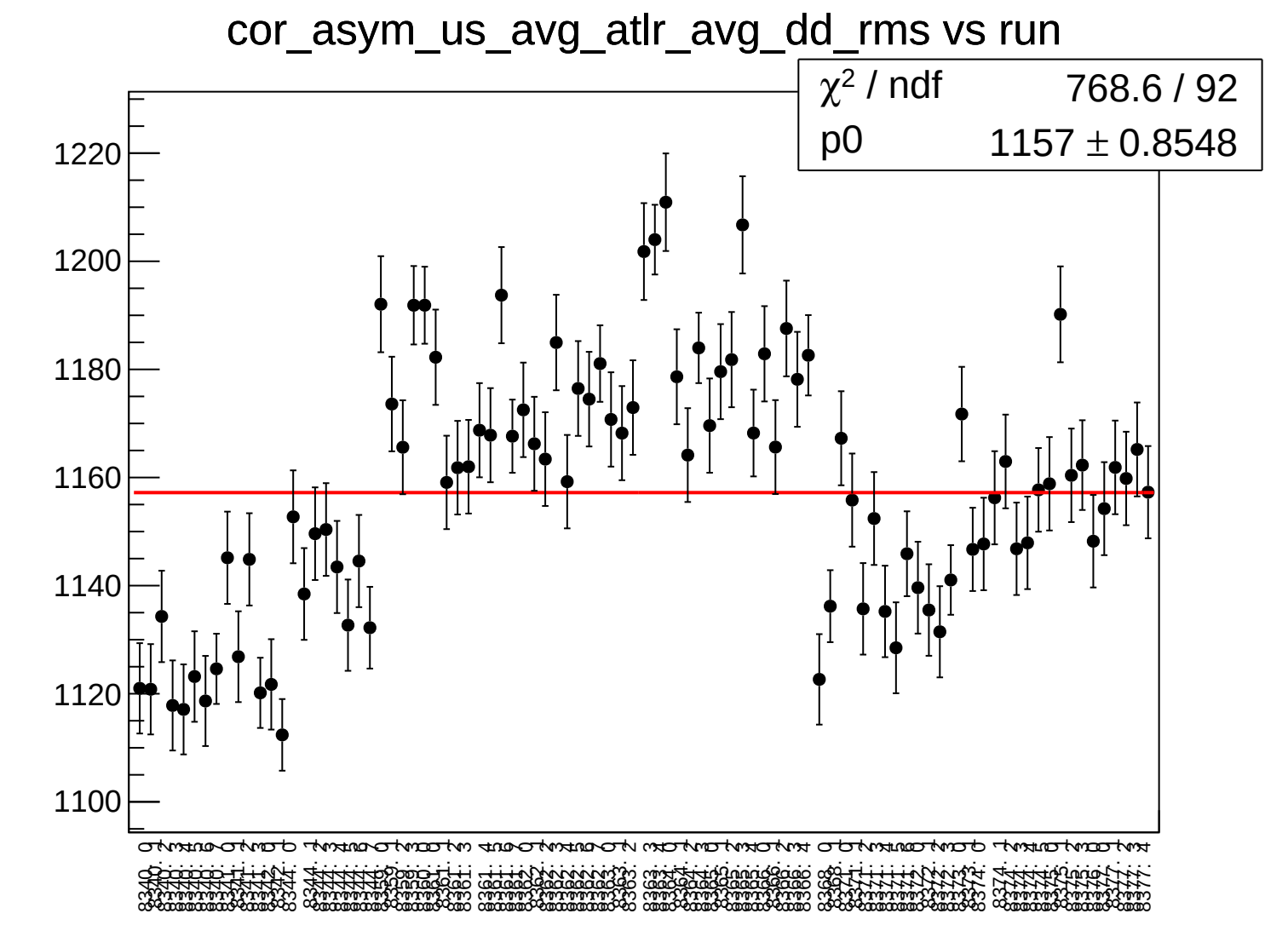

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 768.6 / 92
p0 1157 ± 0.8548
1220
1200
1180
1160
1140
1120
1100

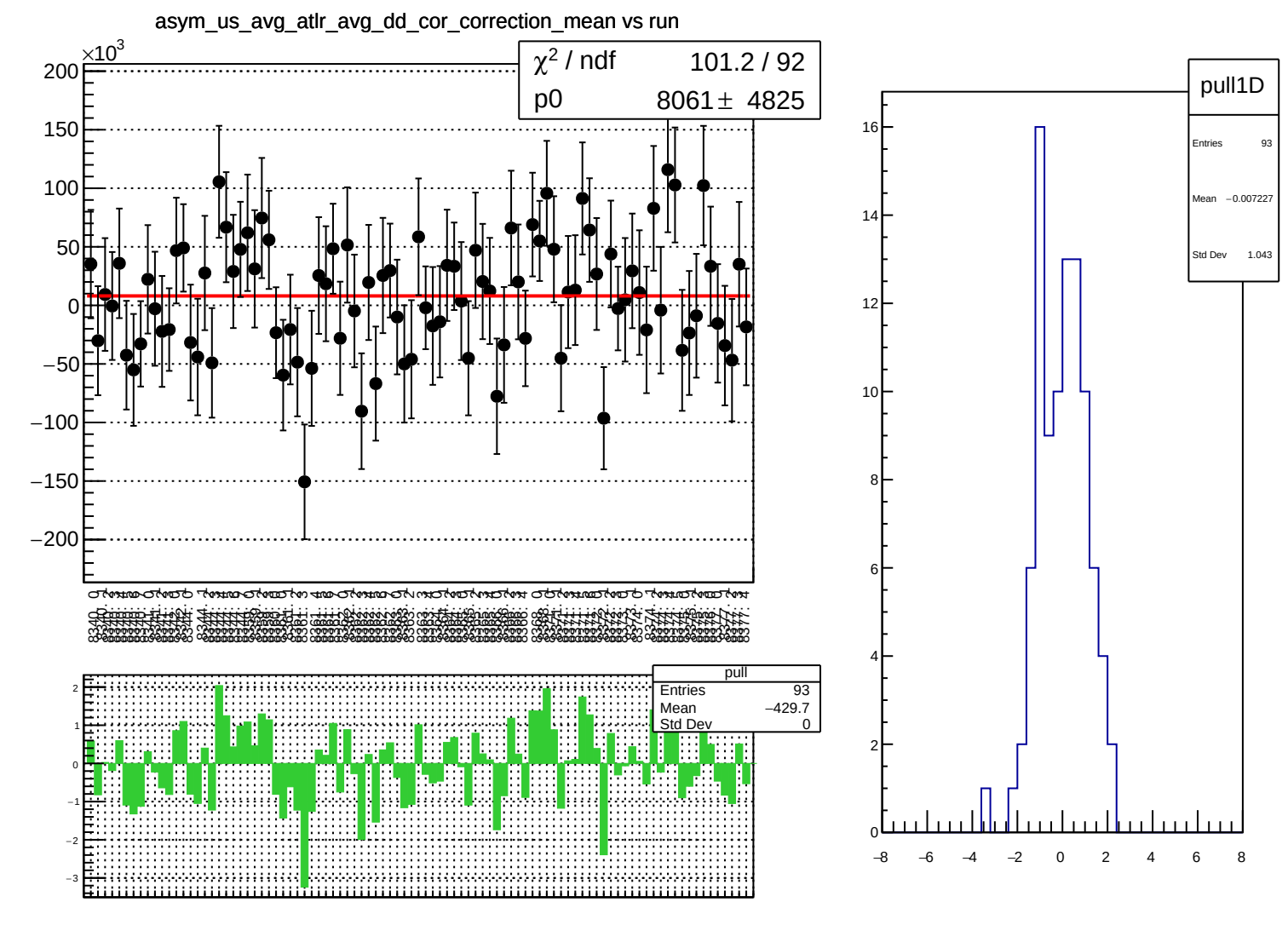

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 8061 ± 4825
pull
Entries 93
Mean −429.8
Std Dev 0
pull1D
Entries 93
Mean −0.007224
Std Dev 1.043

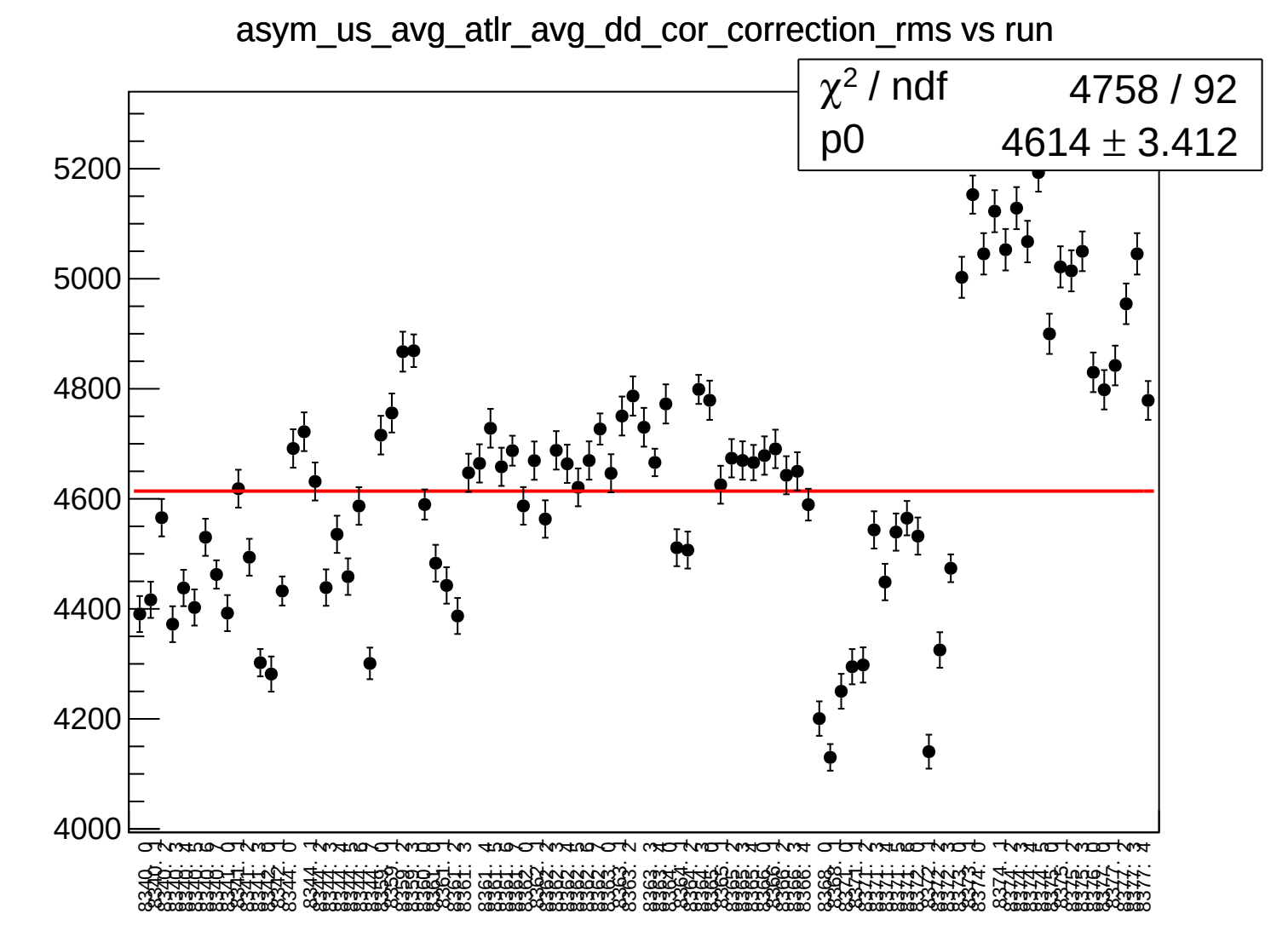

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4758 / 92
p0 4614 ± 3.412
5200
5000
4800
4600
4400
4200
4000

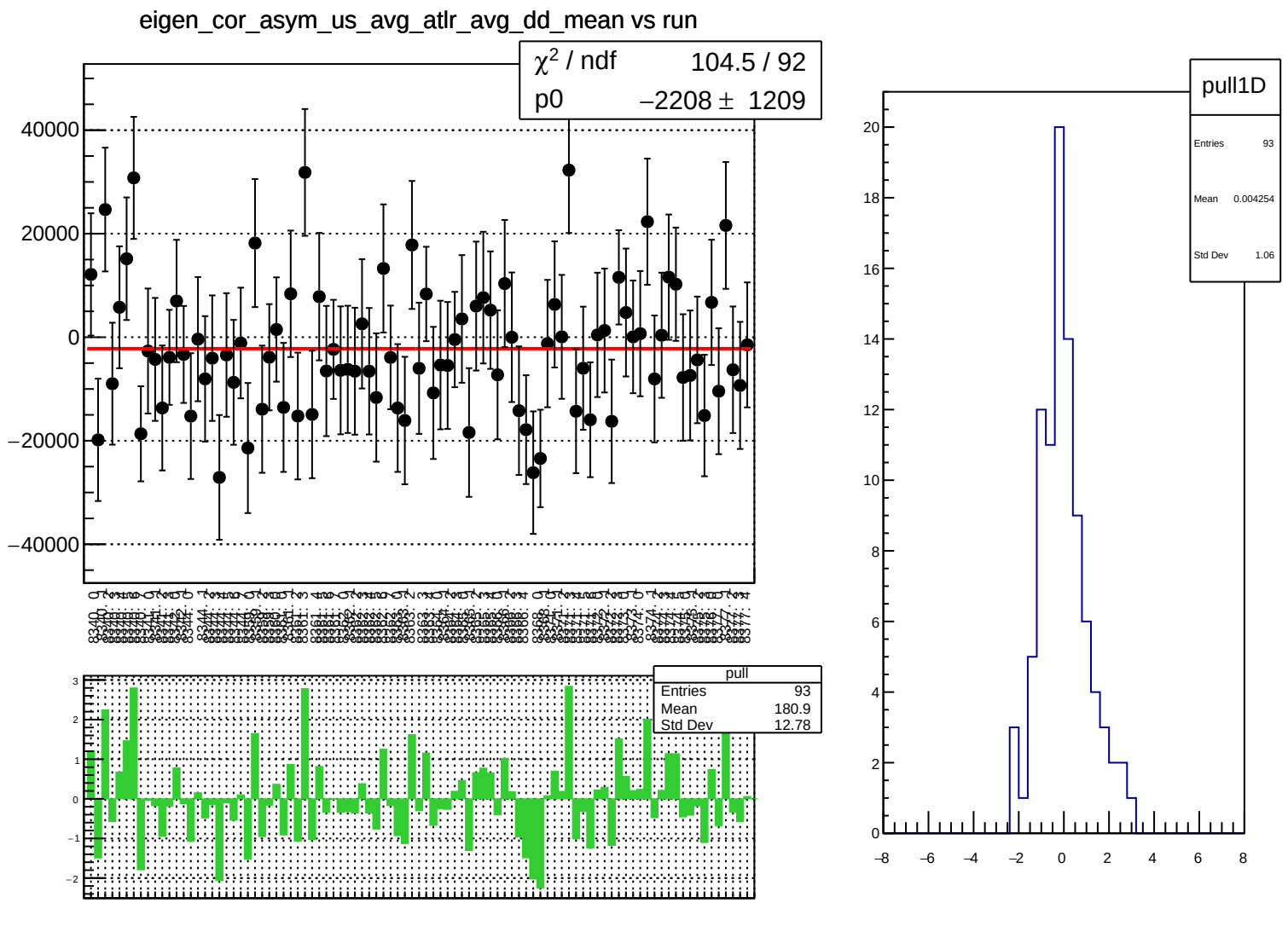

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 104.5 / 92
p0 −2208 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 180.9
Std Dev 12.78
3
2
1
0
−1
−2

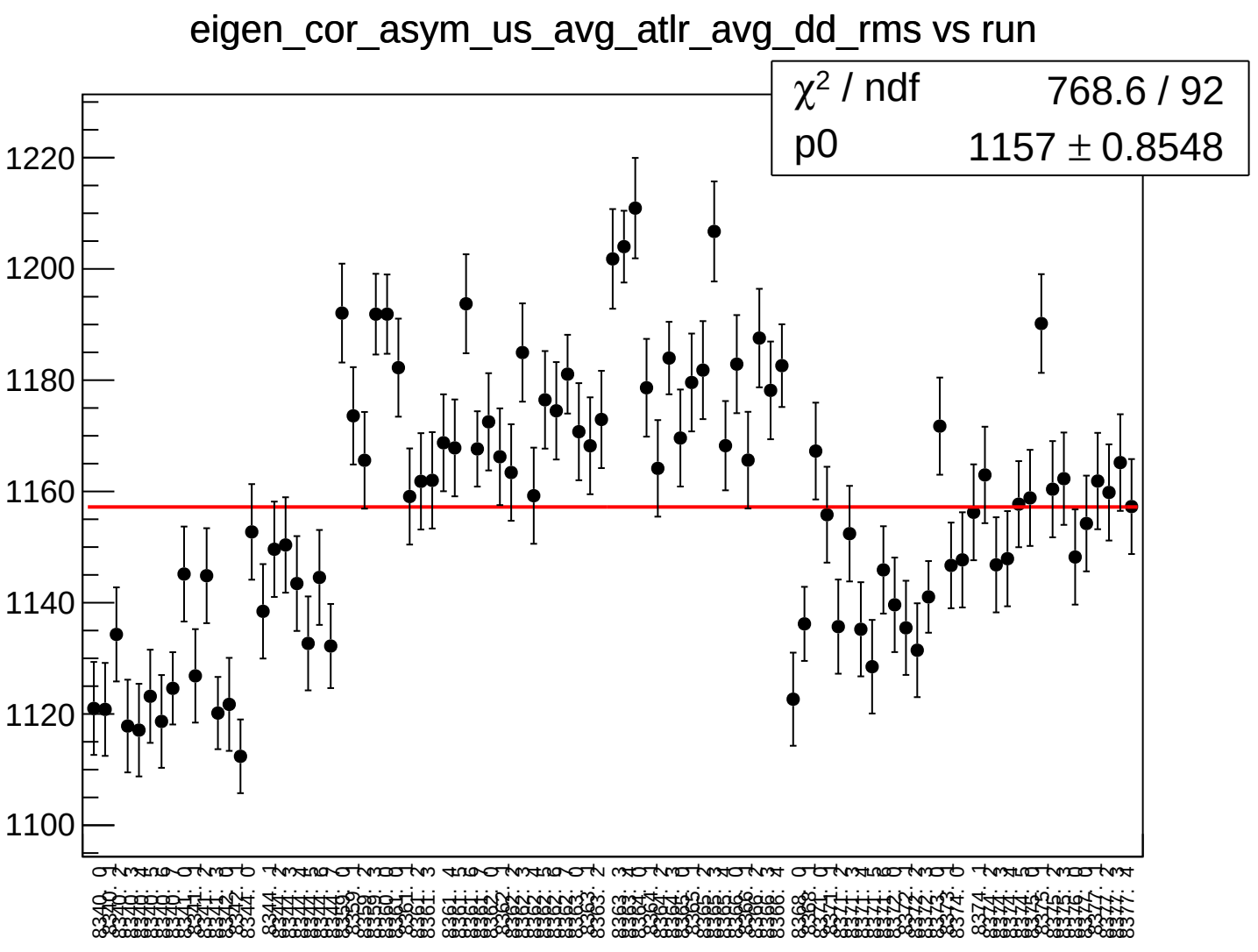

pull1D
Entries 93
Mean 0.004254
Std Dev 1.06
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

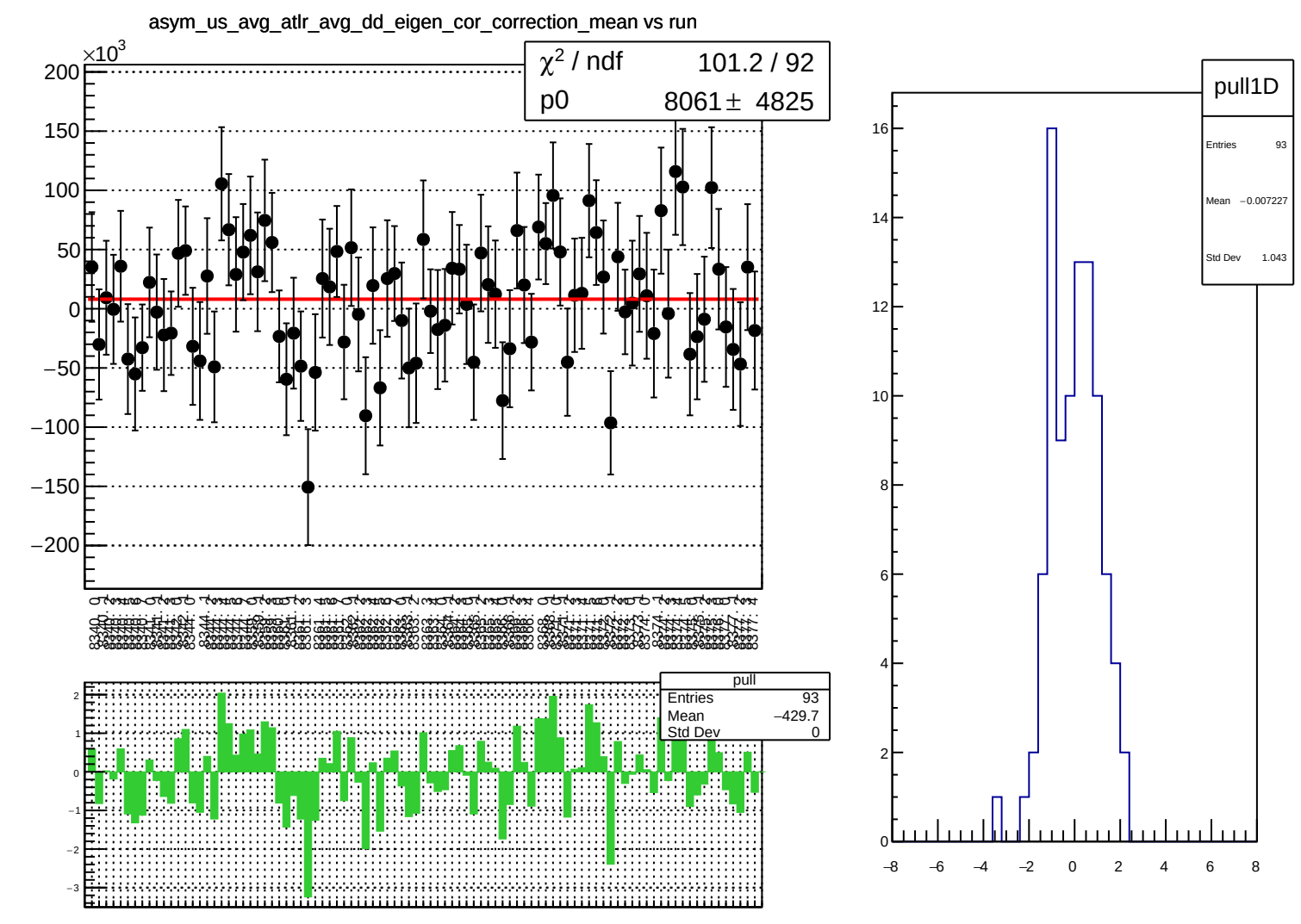

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 768.6 / 92
p0 1157 ± 0.8548
1220
1200
1180
1160
1140
1120
1100

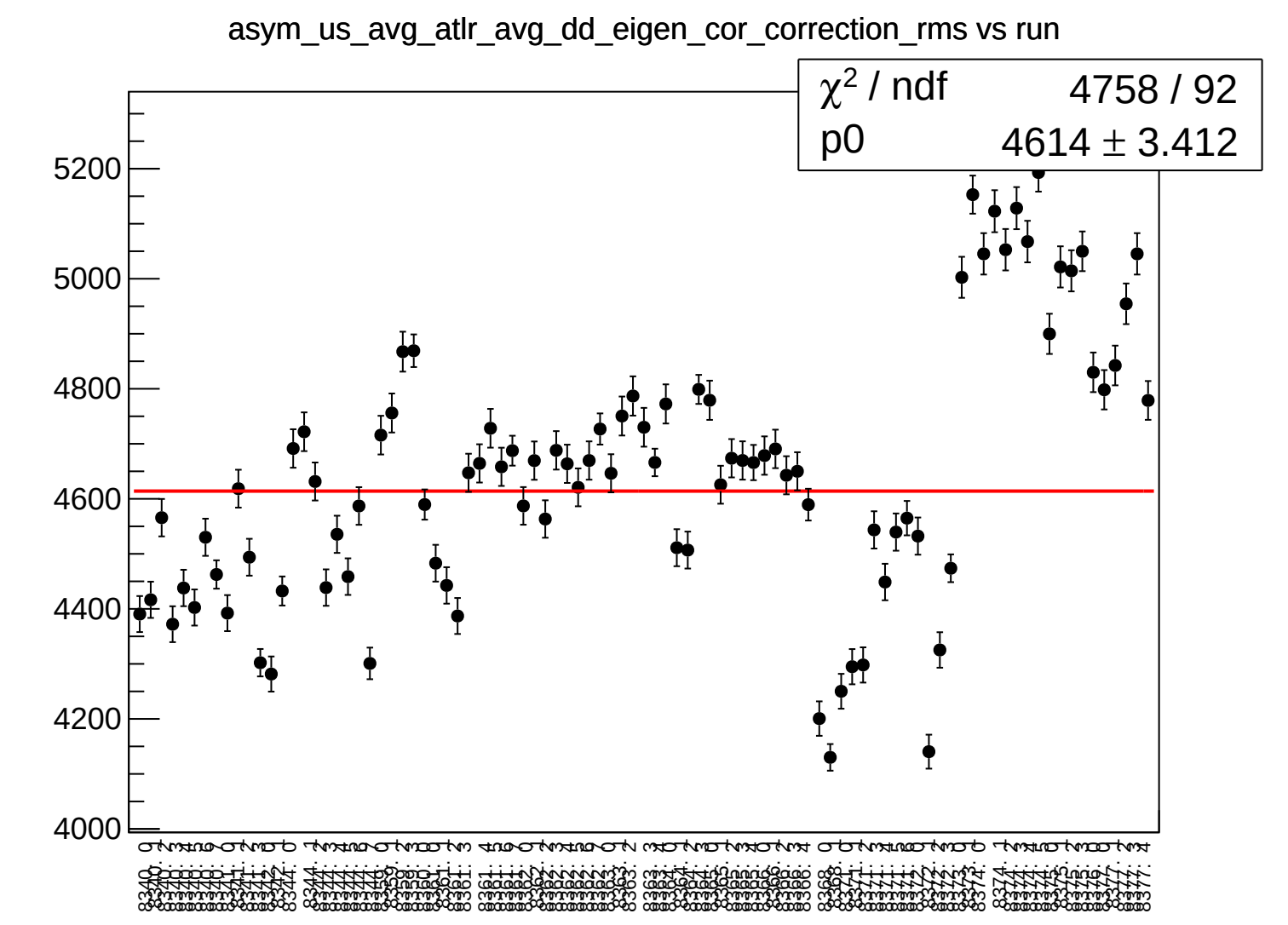

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.2 / 92
p0 8061 ± 4825
pull
Entries 93
Mean −429.7
Std Dev 0
pull1D
Entries 93
Mean −0.007227
Std Dev 1.043

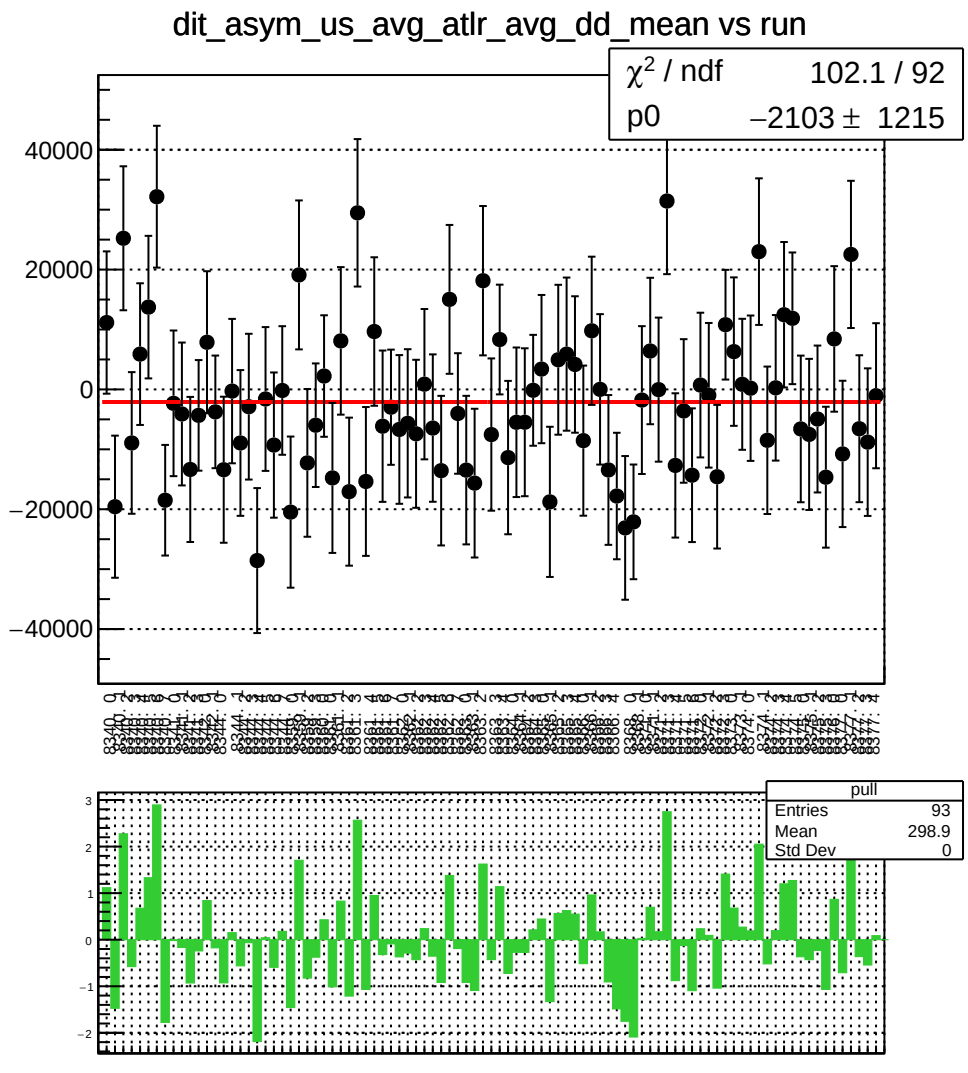

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4758 / 92
p0 4614 ± 3.412
5200
5000
4800
4600
4400
4200
4000

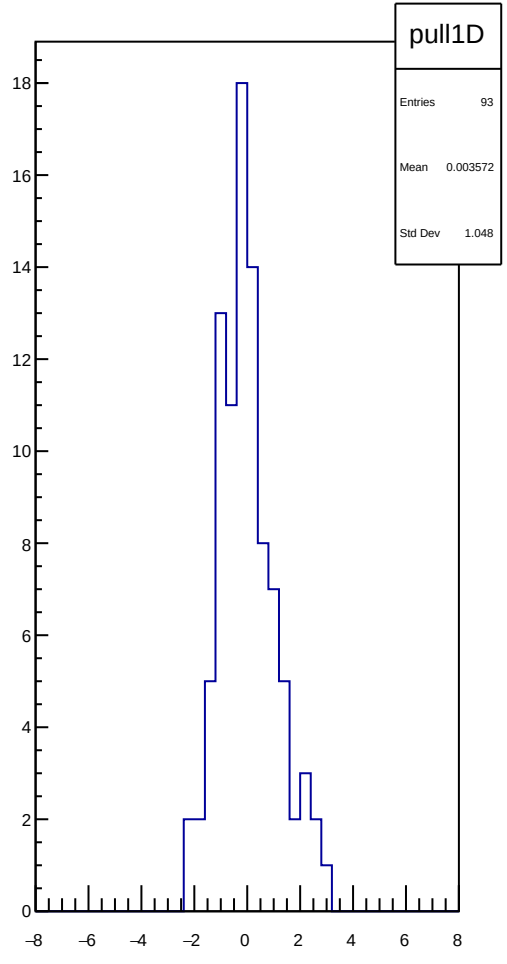

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 104.5 / 92
p0 −2208 ± 1209
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 180.9
Std Dev 12.78
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.004254
Std Dev 1.06
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

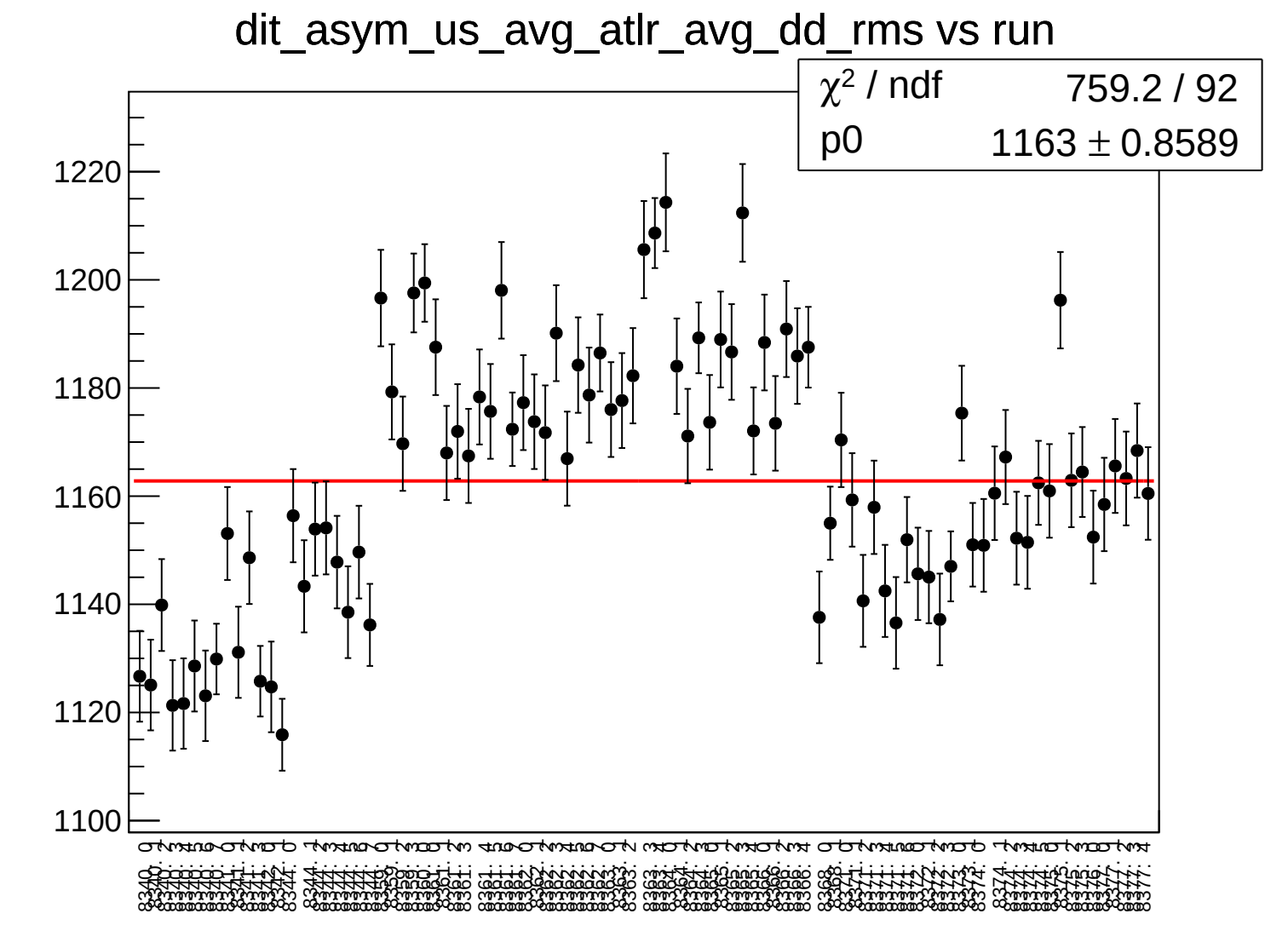

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 768.6 / 92
p0 1157 ± 0.8548
1220
1200
1180
1160
1140
1120
1100

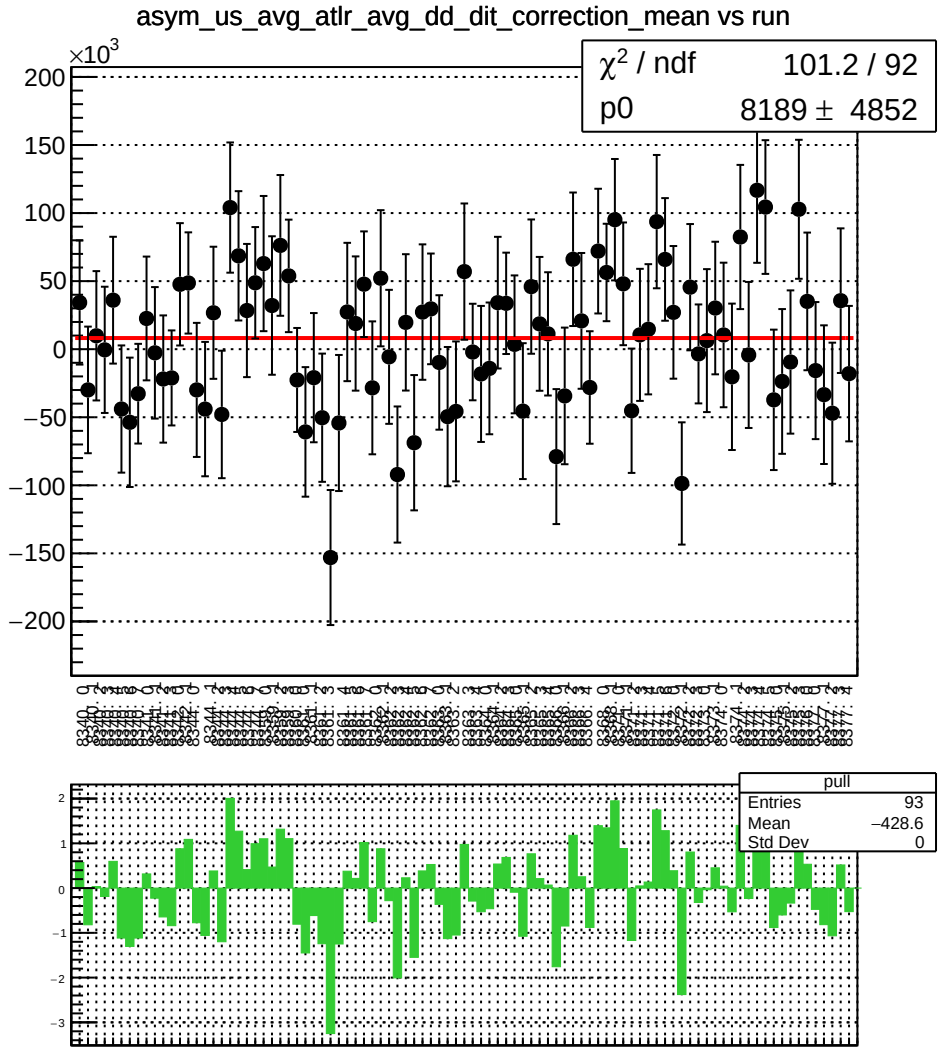

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 8061 ± 4825
pull
Entries 93
Mean −429.7
Std Dev 0
pull1D
Entries 93
Mean −0.007227
Std Dev 1.043

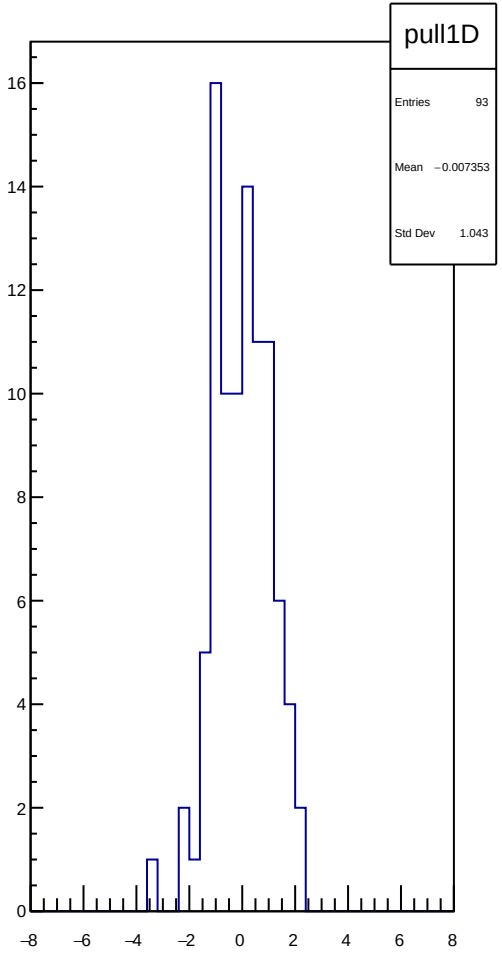

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4758 / 92
p0 4614 ± 3.412
5200
5000
4800
4600
4400
4200
4000

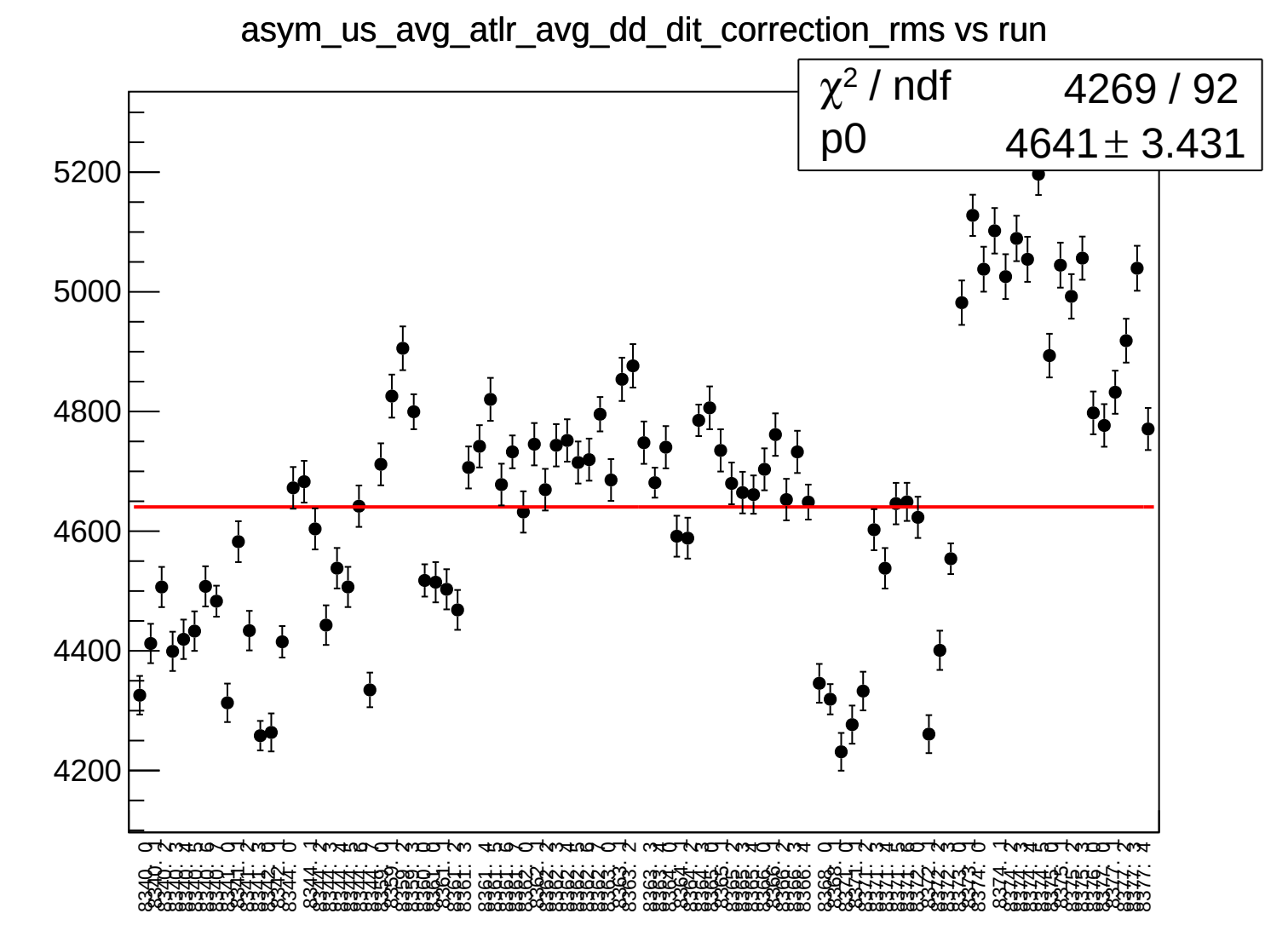

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 102.1 / 92
p0 −2103 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 298.9
Std Dev 0
3
2
1
0
−1
−2

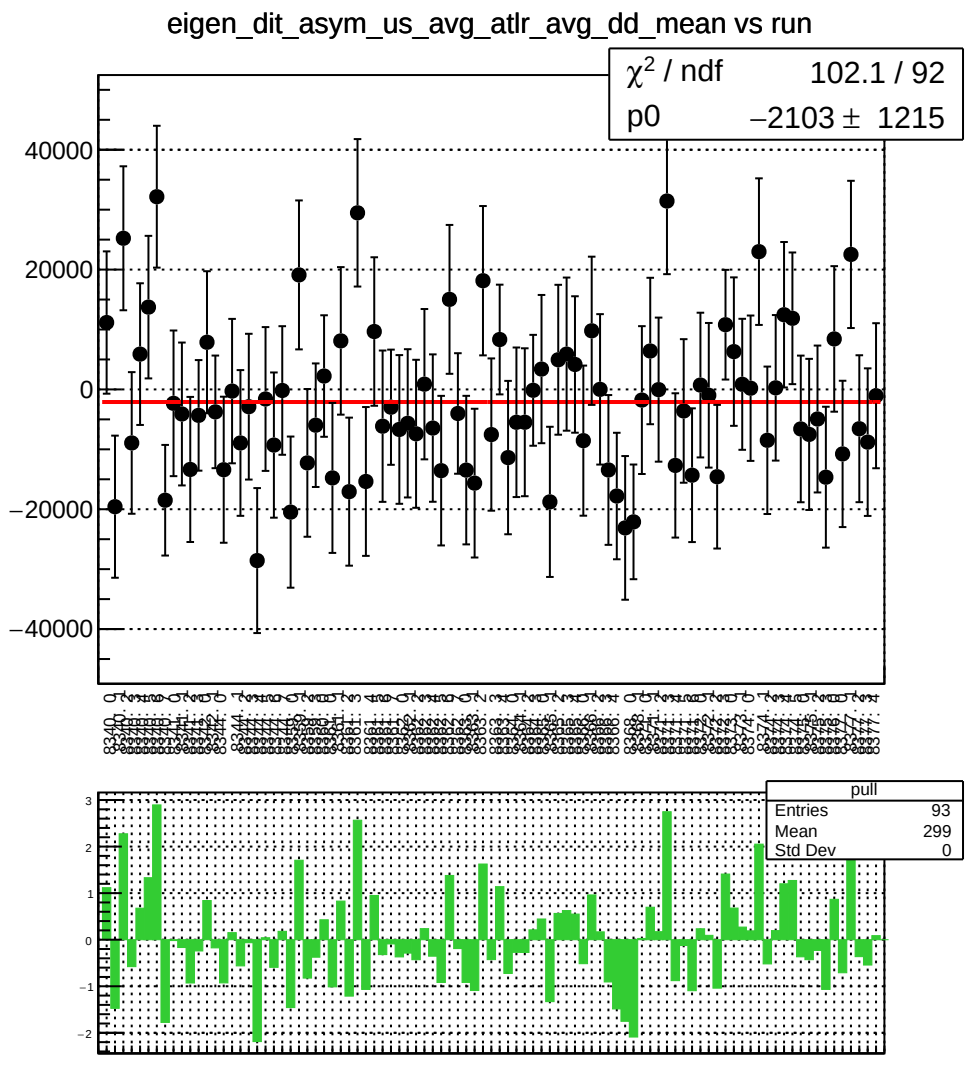

pull1D
Entries 93
Mean 0.003572
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

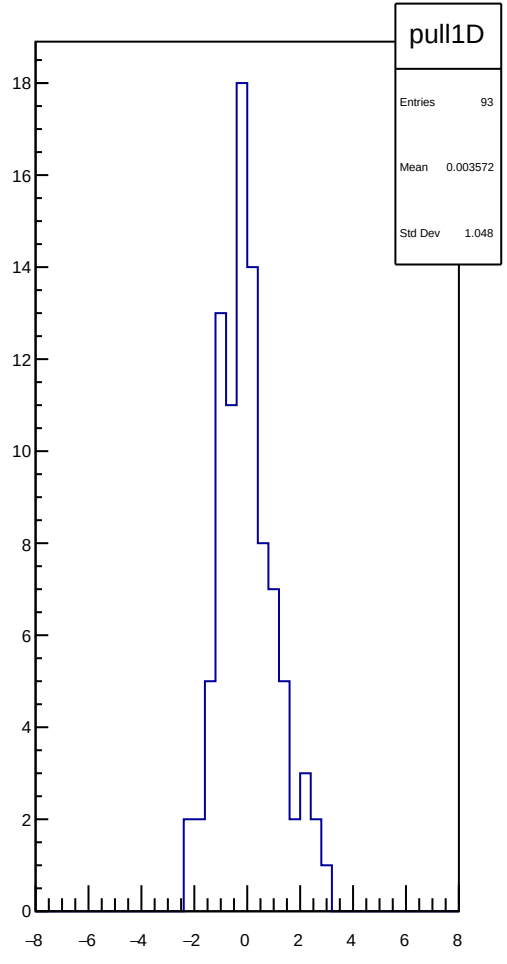

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 759.2 / 92
p0 1163 ± 0.8589
1220
1200
1180
1160
1140
1120
1100

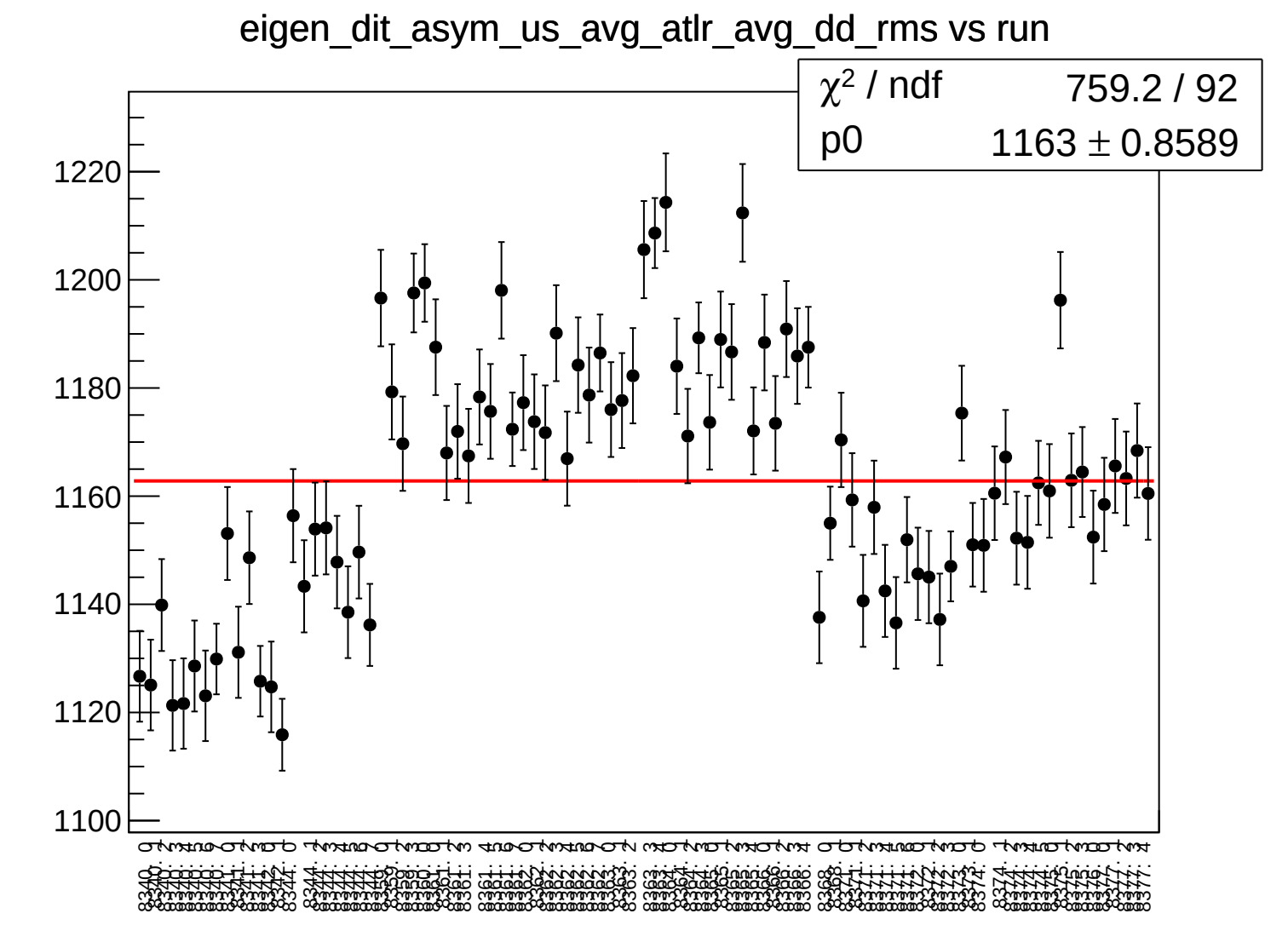

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 8189 ± 4852
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −428.6
Std Dev 0
2
1
0
−1
−2
−3

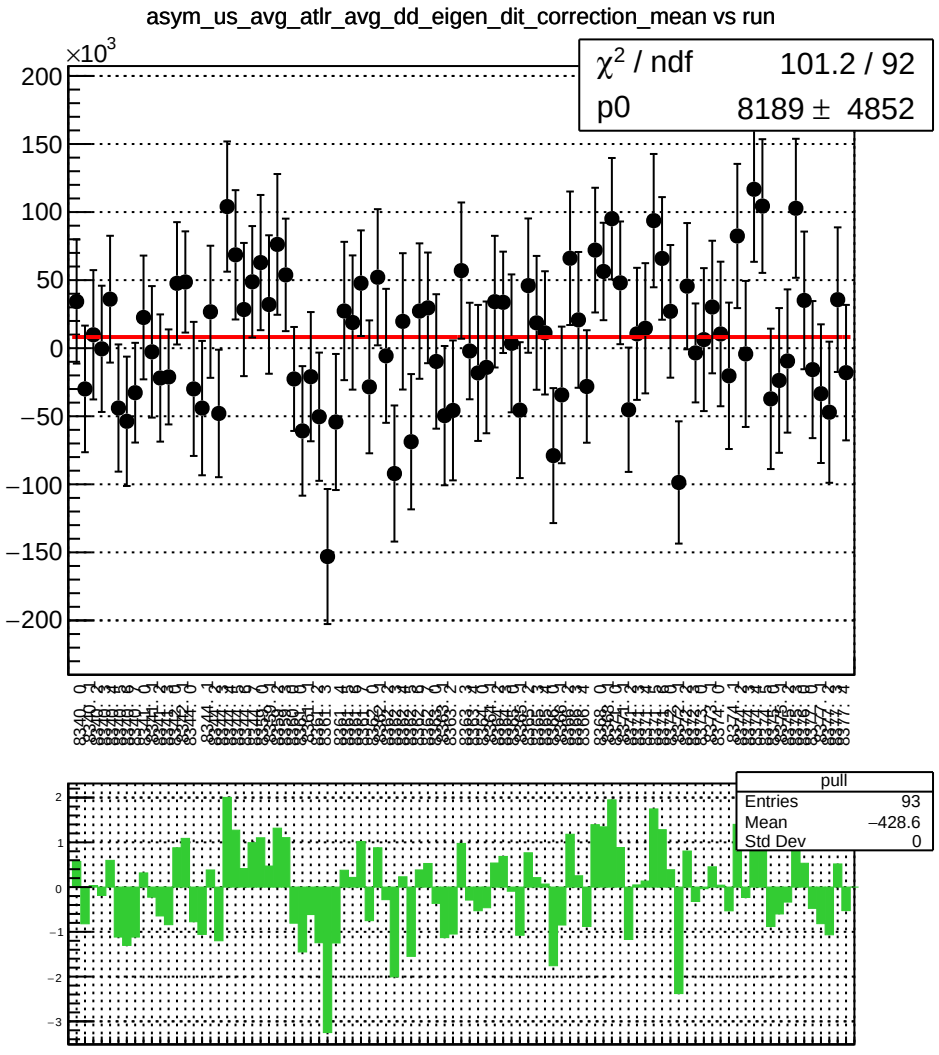

pull1D
Entries 93
Mean −0.007353
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

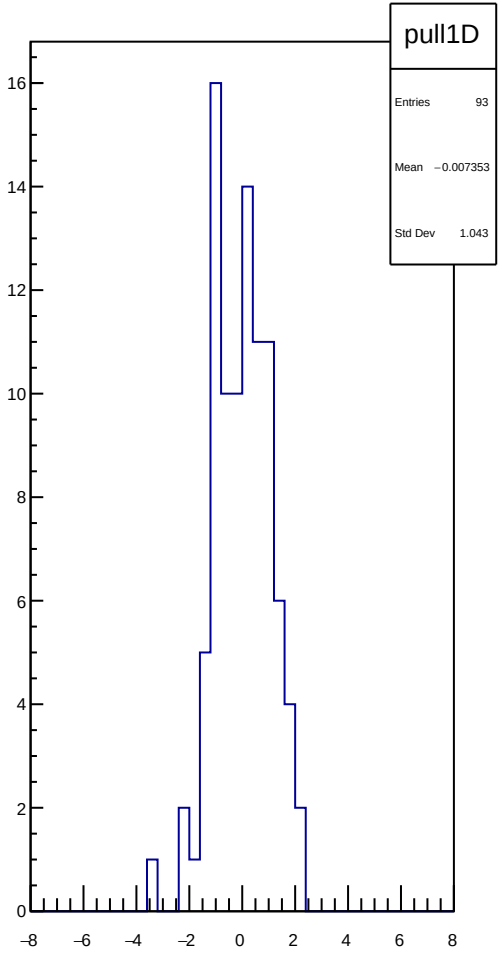

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 4269 / 92
p0 4641 ± 3.431
5200
5000
4800
4600
4400
4200

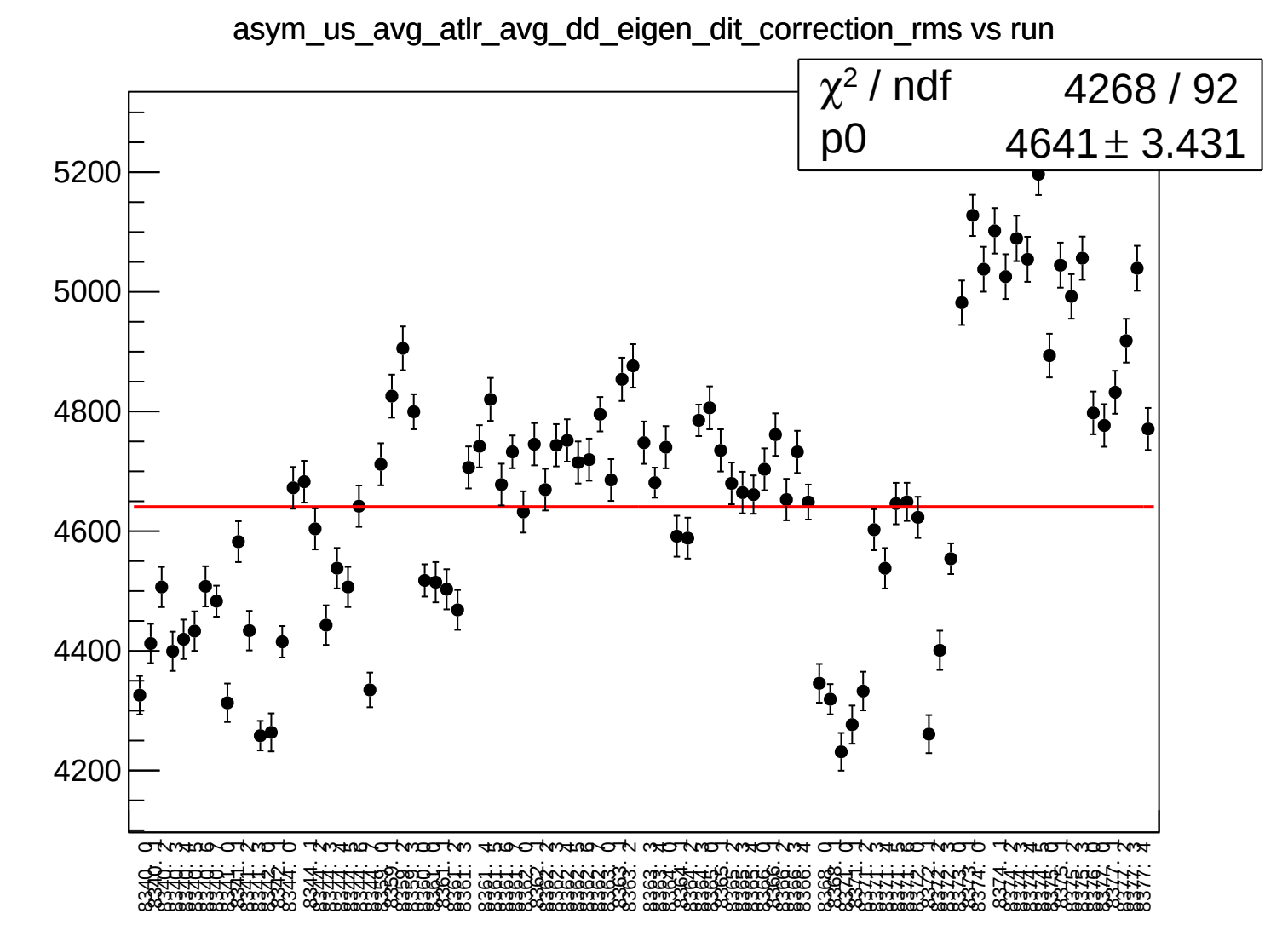

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 102.1 / 92
p0 −2103 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 299
Std Dev 0
3
2
1
0
−1
−2

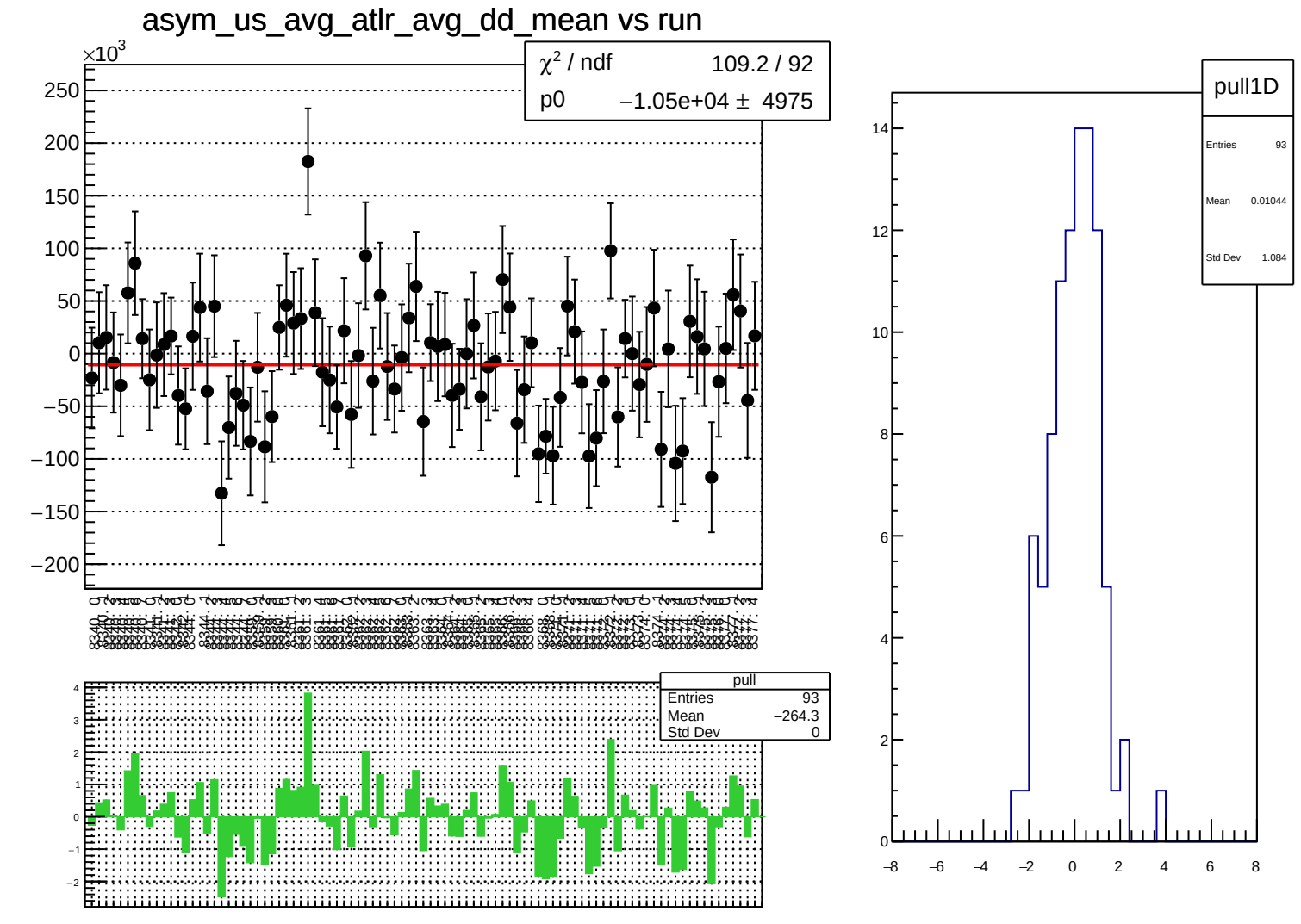

pull1D
Entries 93
Mean 0.003572
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

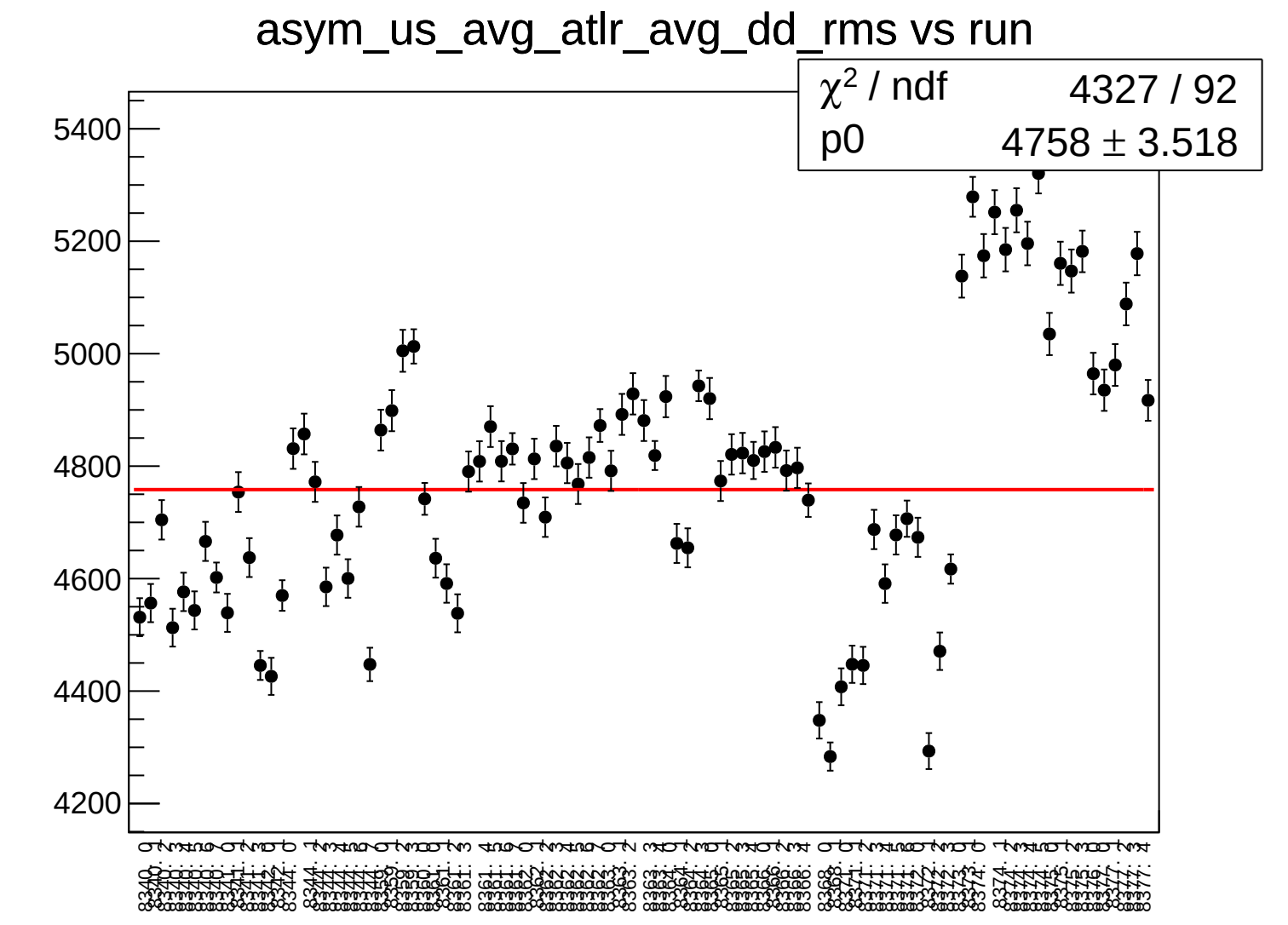

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 759.2 / 92
p0 1163 ± 0.8589
1220
1200
1180
1160
1140
1120
1100

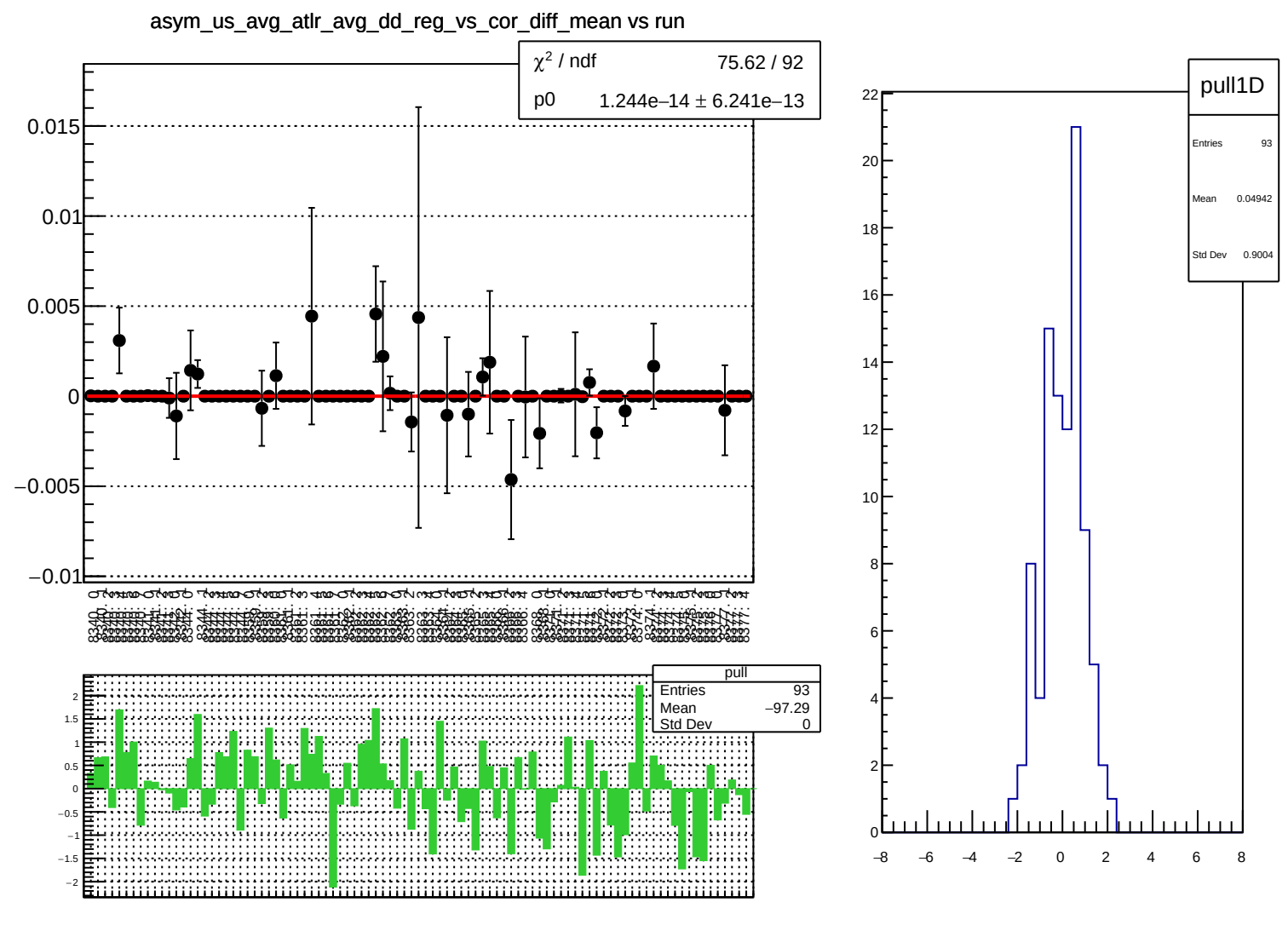

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.2 / 92
p0 8189 ± 4852
pull
Entries 93
Mean −428.6
Std Dev 0

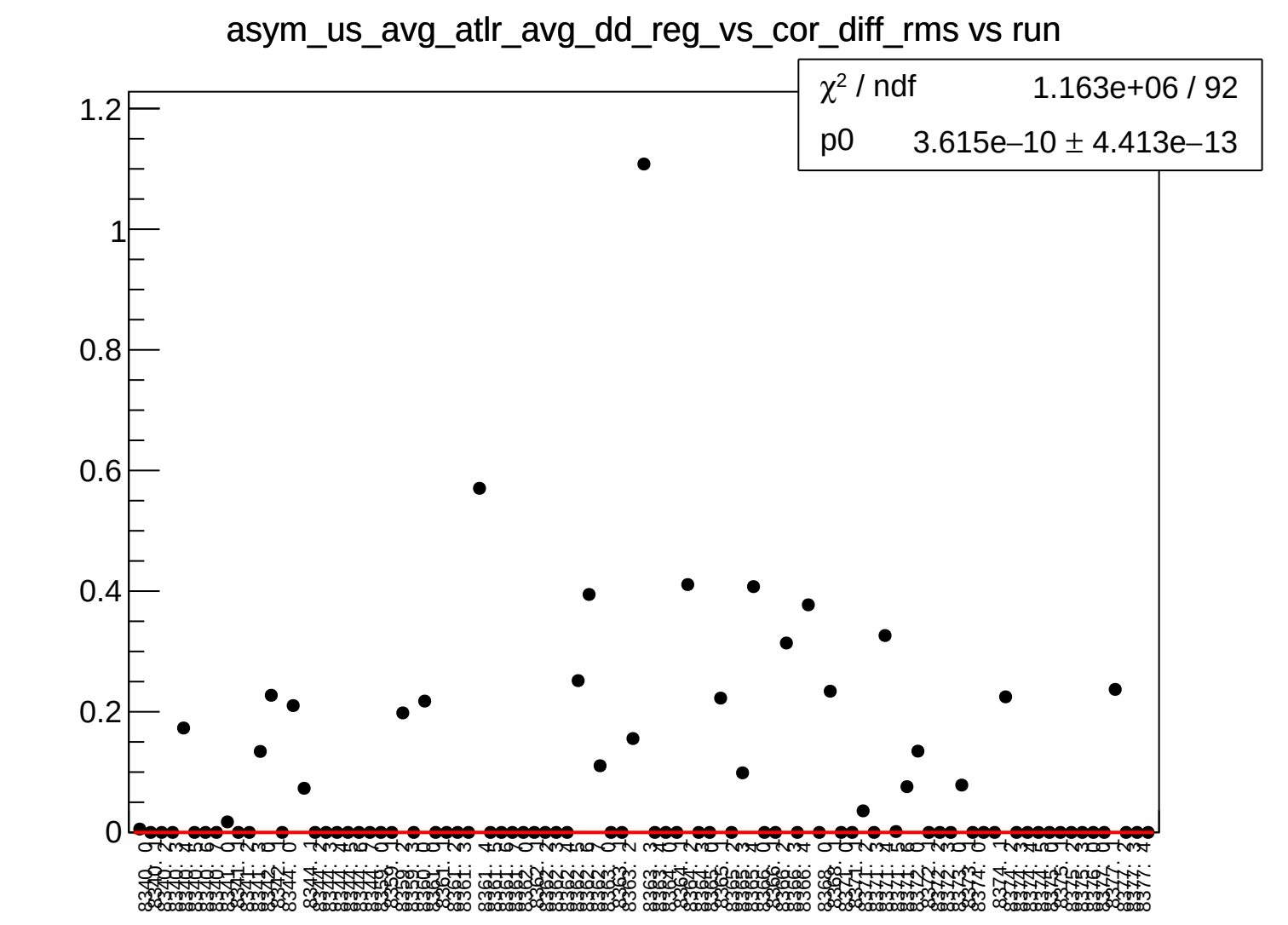

pull1D
Entries 93
Mean −0.007353
Std Dev 1.043

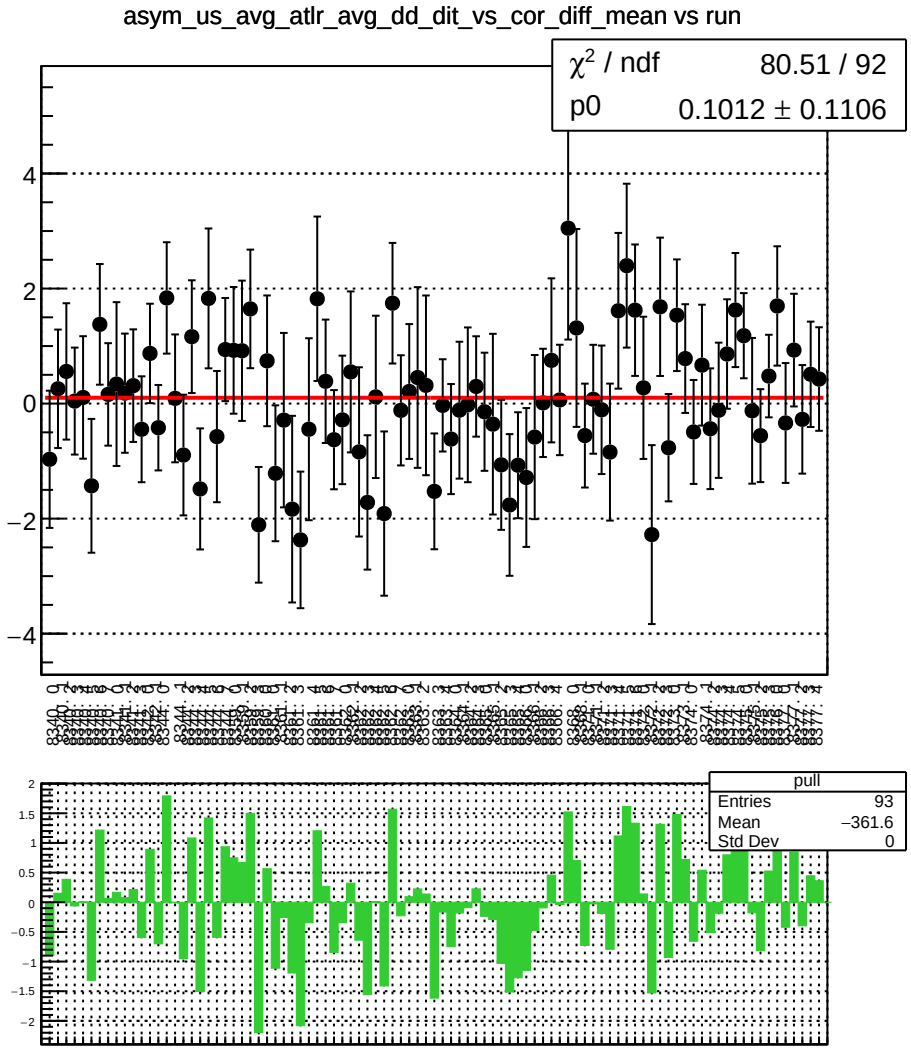

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4268 / 92
p0 4641 ± 3.431
5200
5000
4800
4600
4400
4200

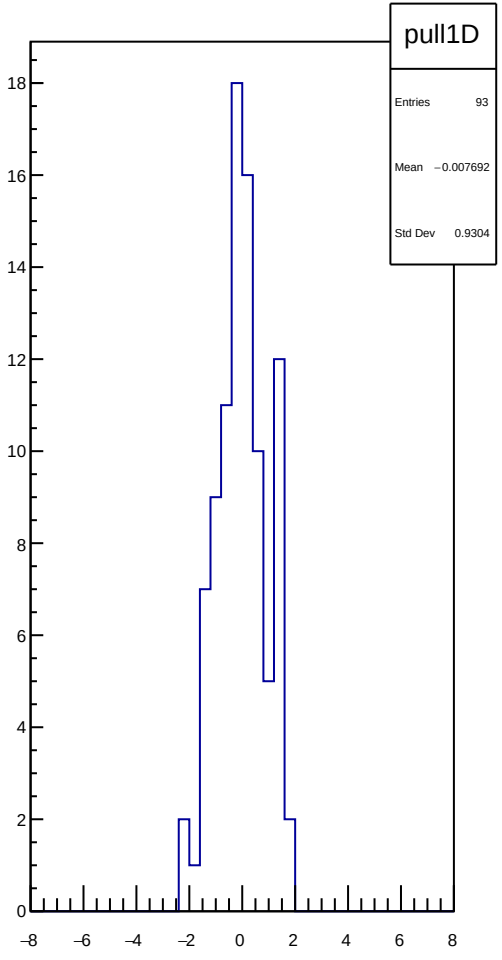

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 109.2 / 92
p0 −1.05e+04 ± 4975
pull
Entries 93
Mean −264.3
Std Dev 0
pull1D
Entries 93
Mean 0.01044
Std Dev 1.084

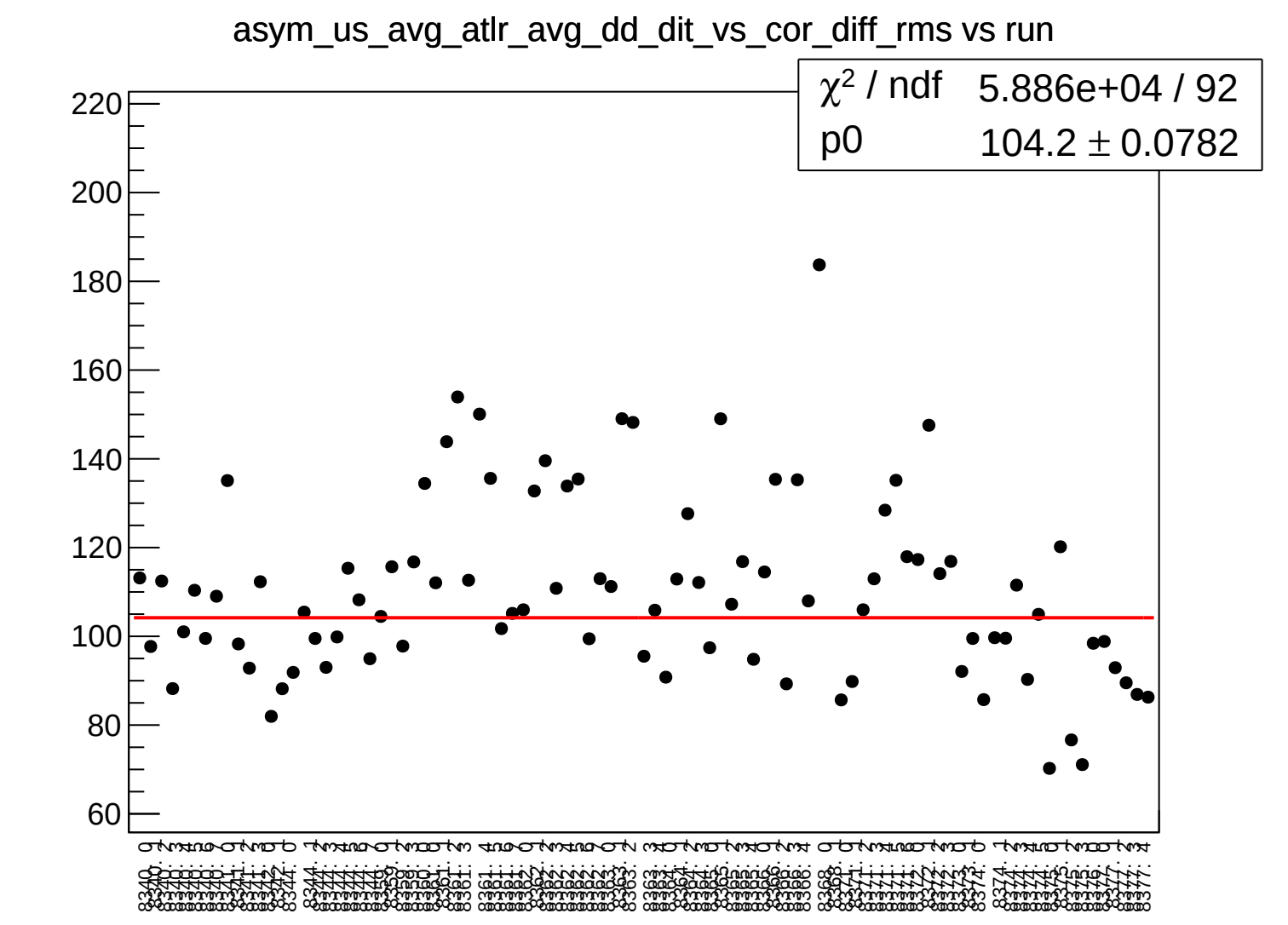

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 4327 / 92
p0 4758 ± 3.518
5400
5200
5000
4800
4600
4400
4200

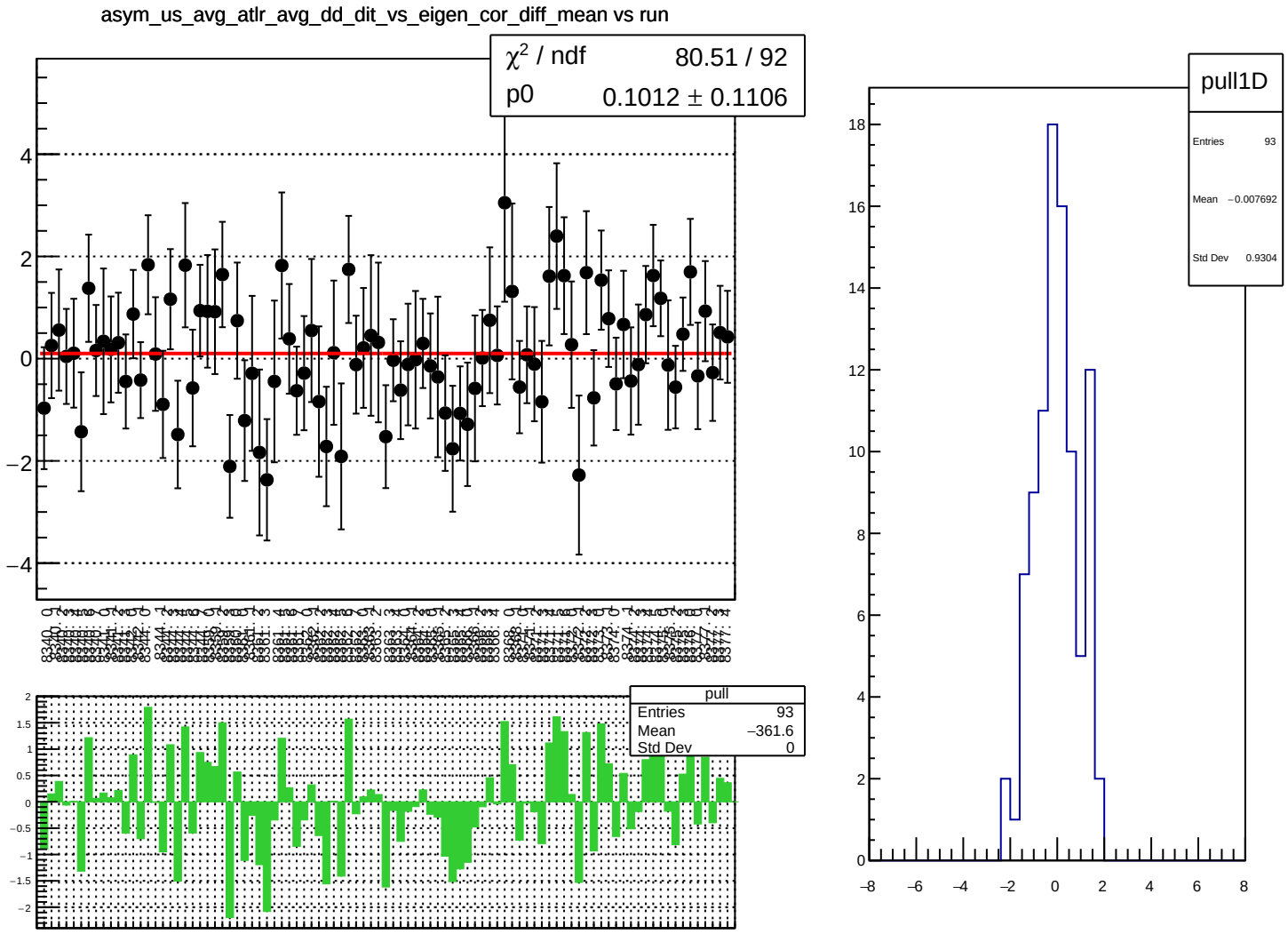

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.62 / 92
p0 1.244e−14 ± 6.241e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 93
Mean −97.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.04942
Std Dev 0.9004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

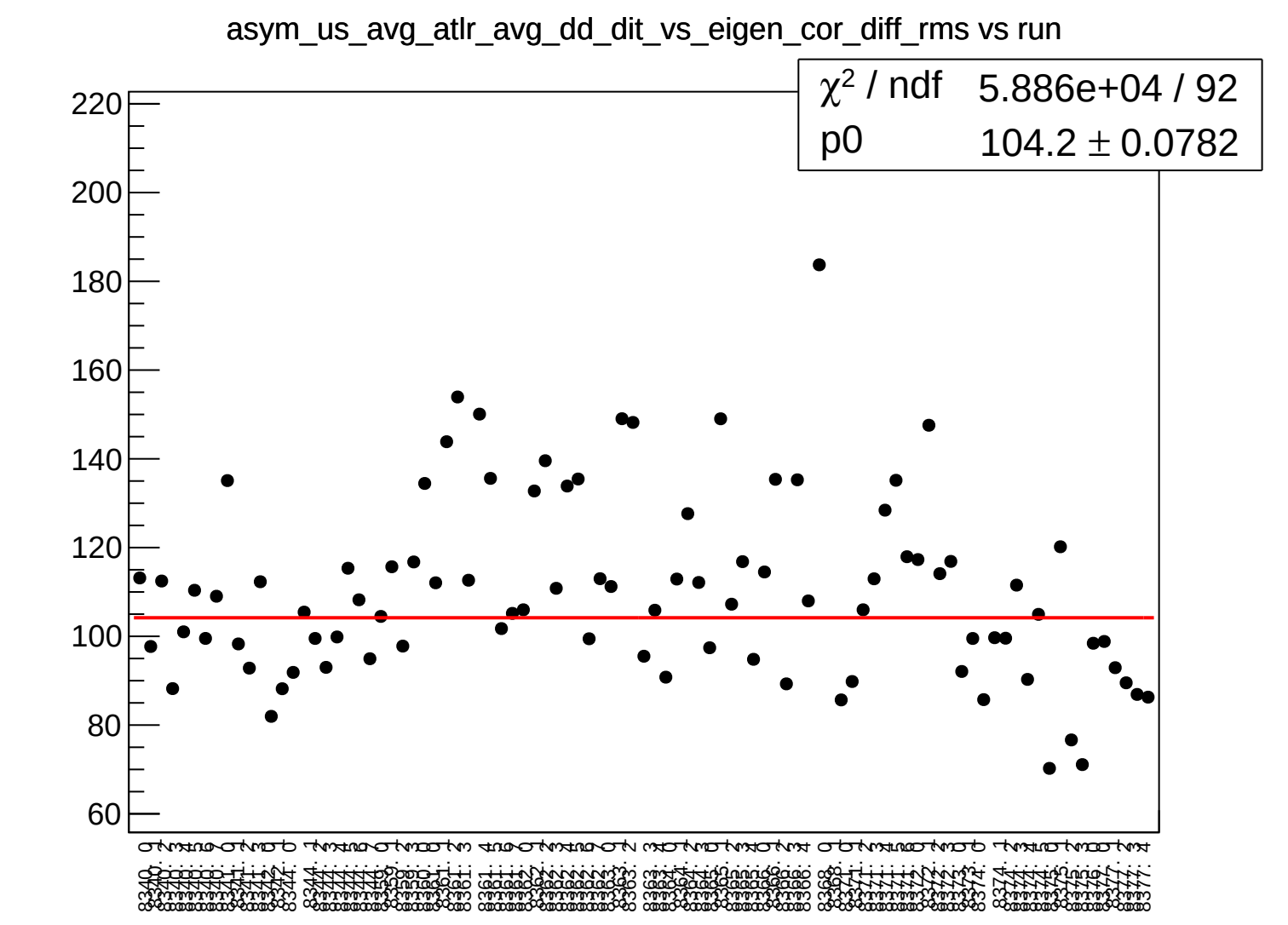

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 92
p0 3.615e−10 ± 4.413e−13
1.2
1
0.8
0.6
0.4
0.2
0

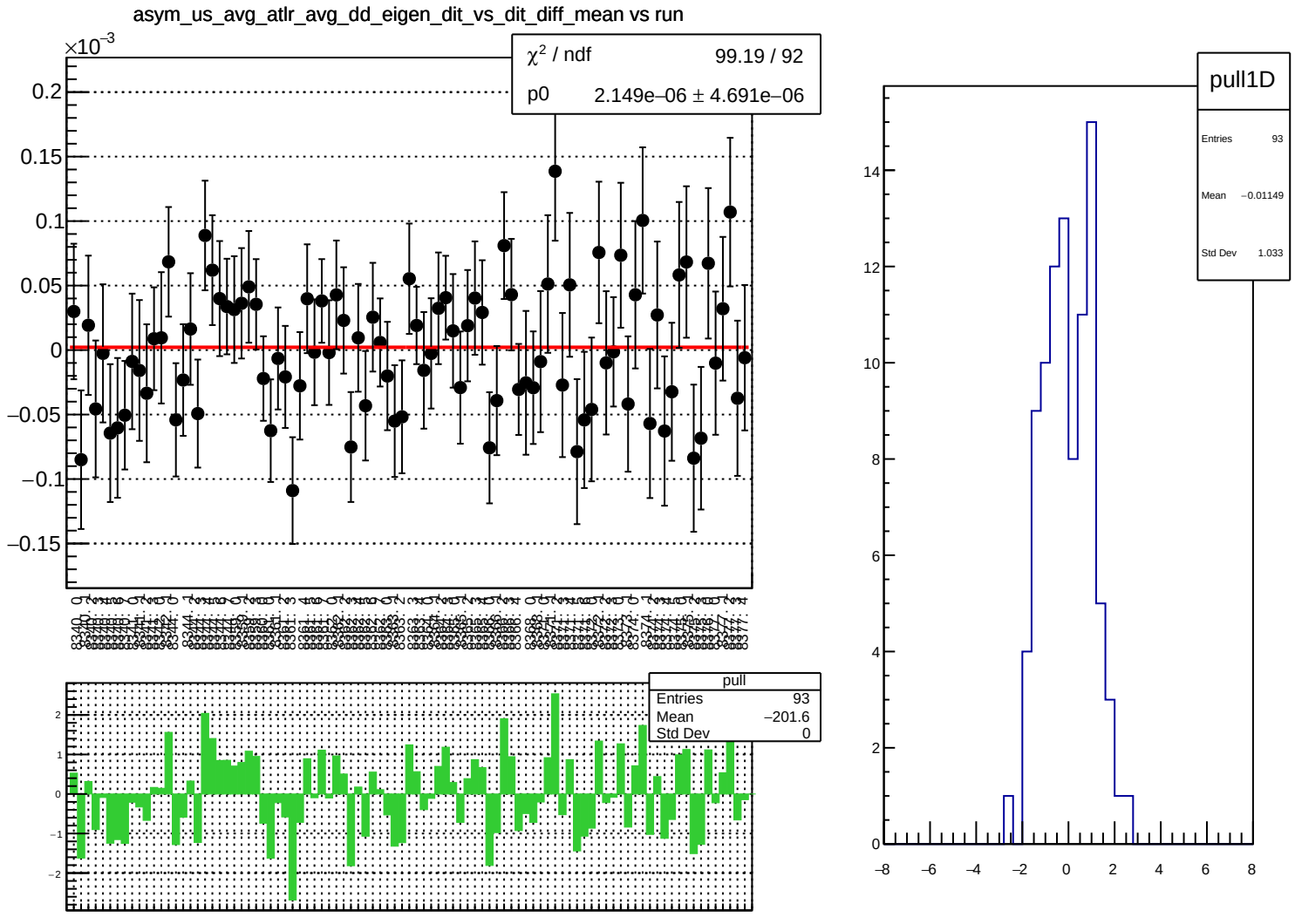

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.51 / 92
p0 0.1012 ± 0.1106
pull
Entries 93
Mean −361.6
Std Dev 0

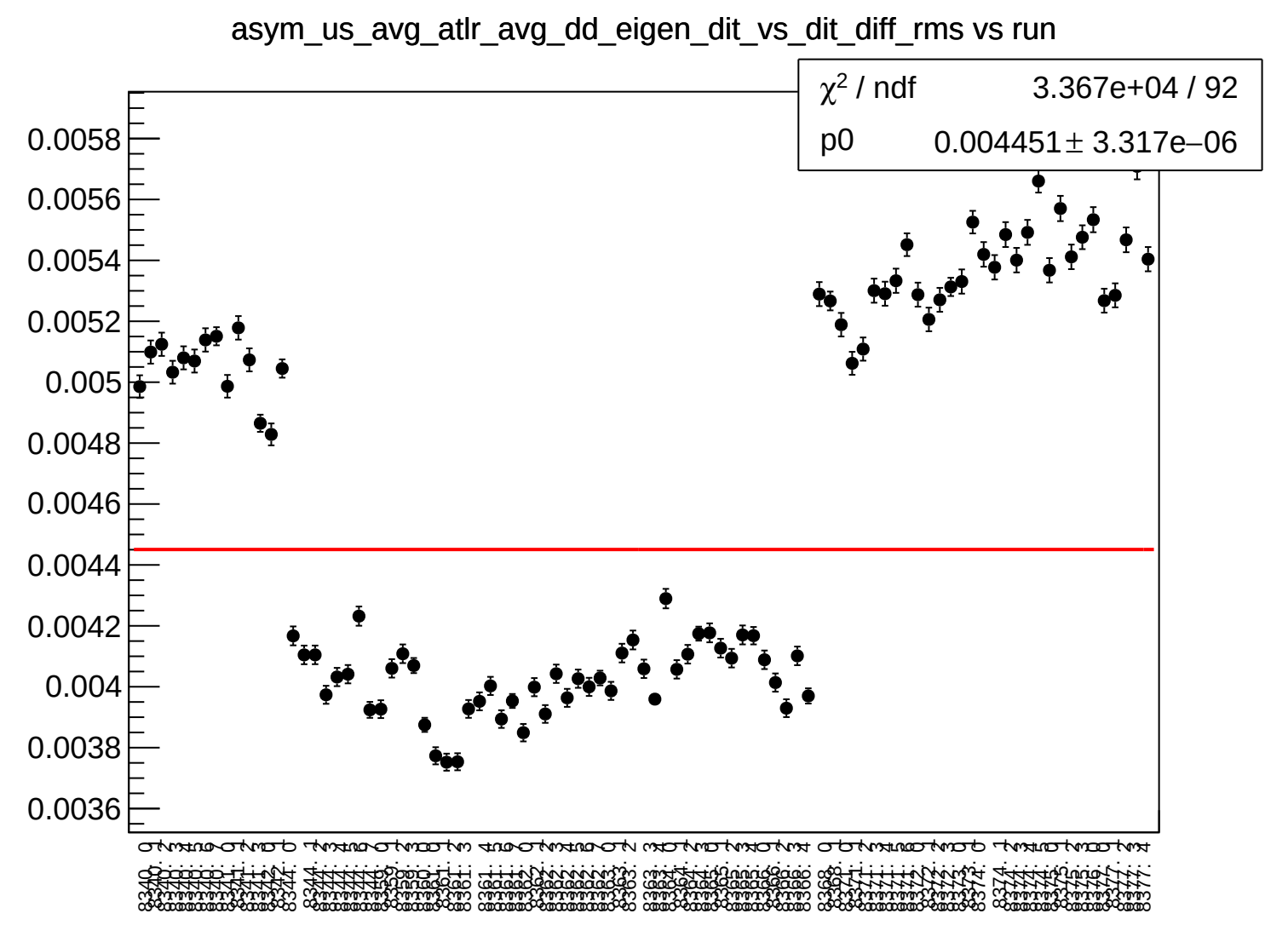

pull1D
Entries 93
Mean −0.007692
Std Dev 0.9304

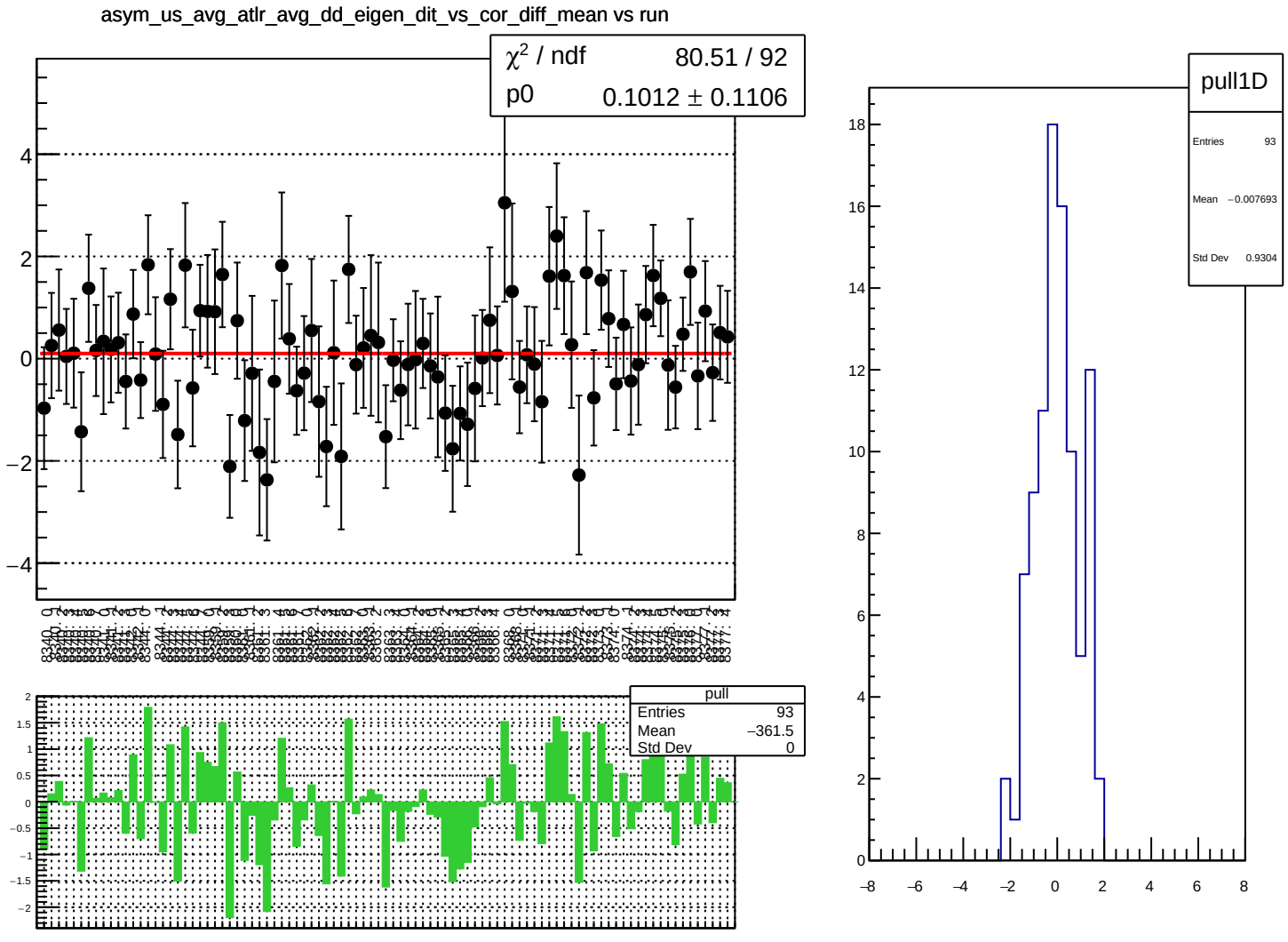

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.886e+04 / 92
p0 104.2 ± 0.0782
220
200
180
160
140
120
100
80
60

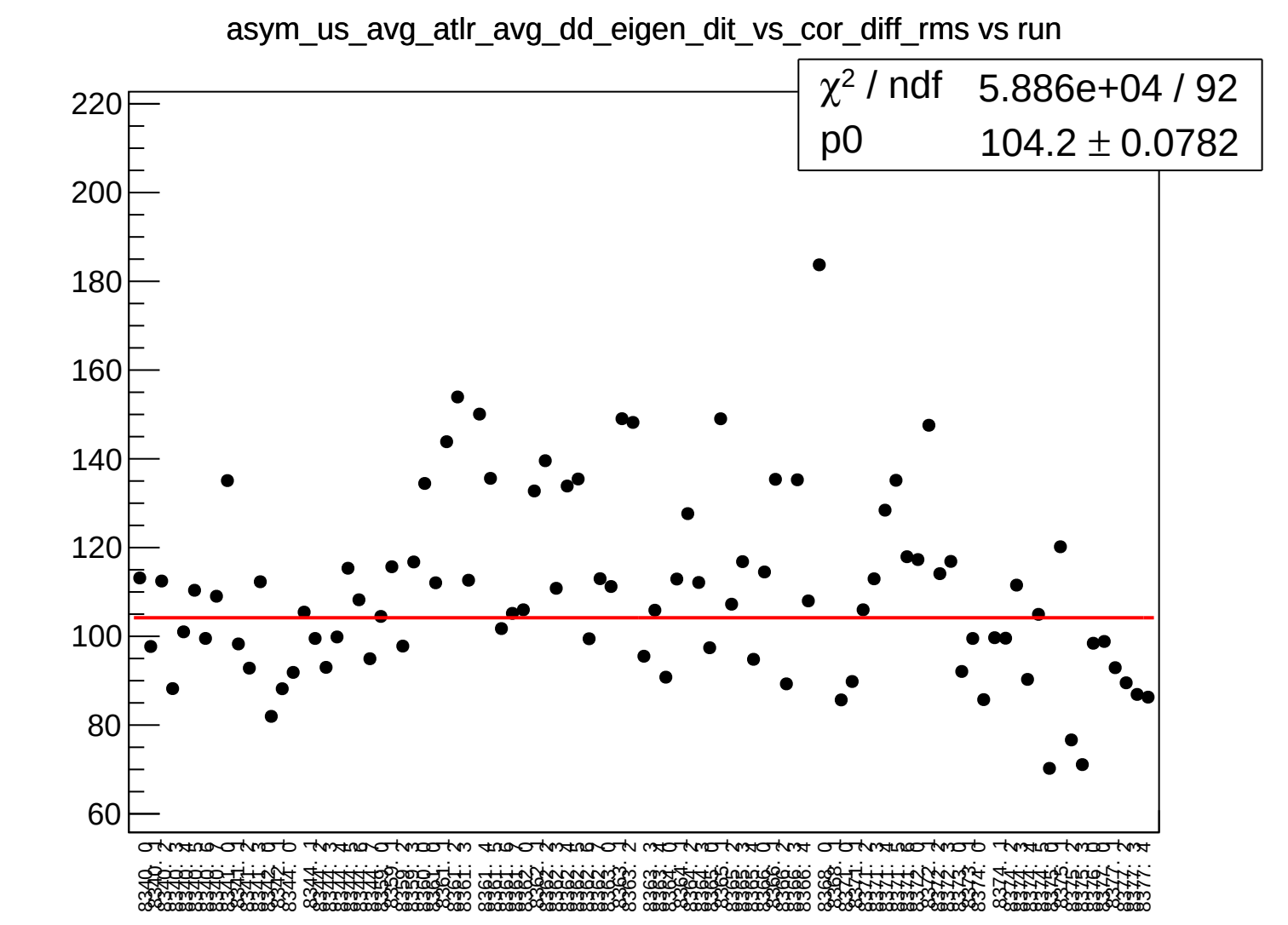

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.51 / 92
p0 0.1012 ± 0.1106
pull
Entries 93
Mean −361.6
Std Dev 0
pull1D
Entries 93
Mean −0.007692
Std Dev 0.9304

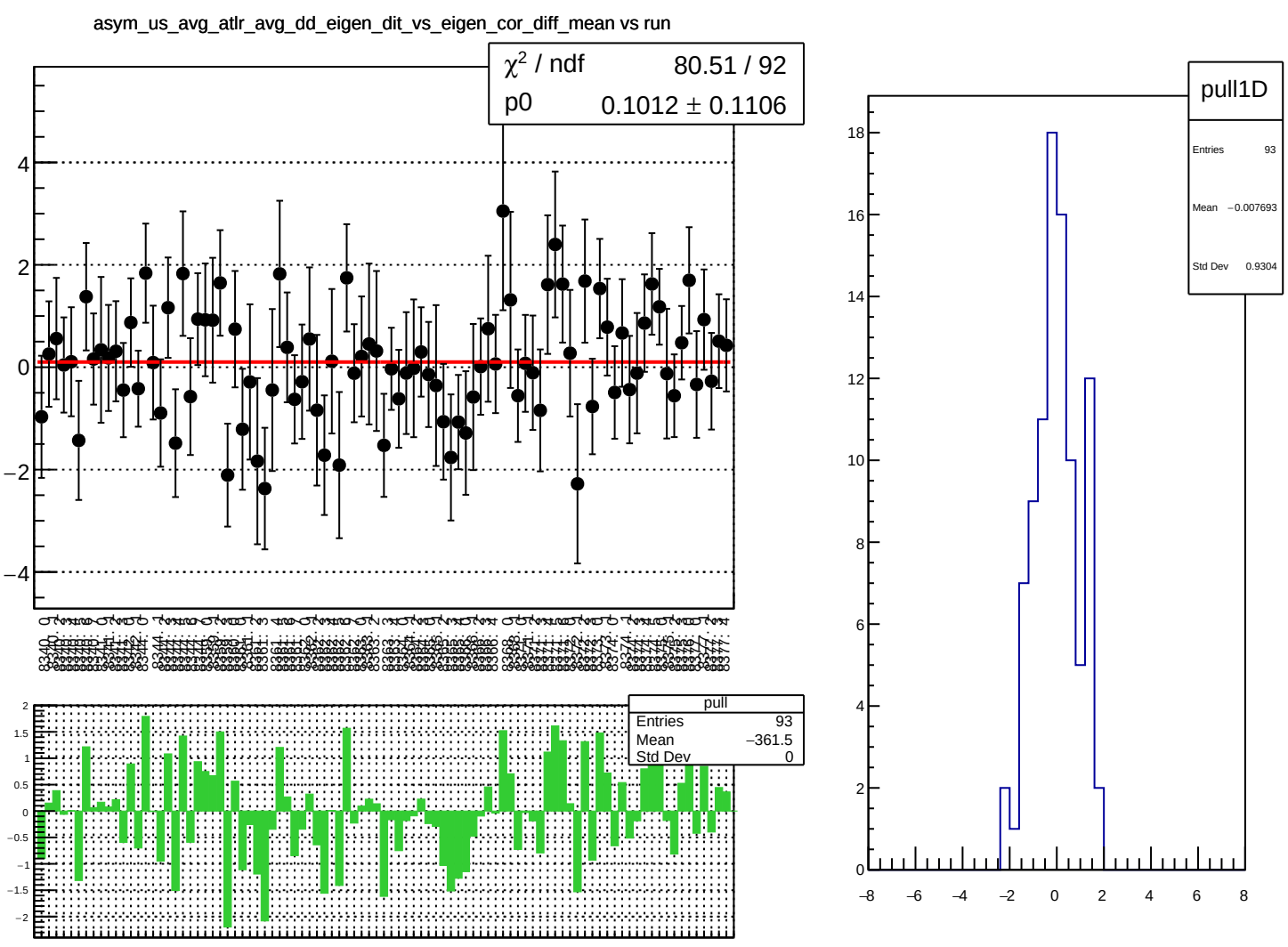

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.886e+04 / 92
p0 104.2 ± 0.0782
220
200
180
160
140
120
100
80
60

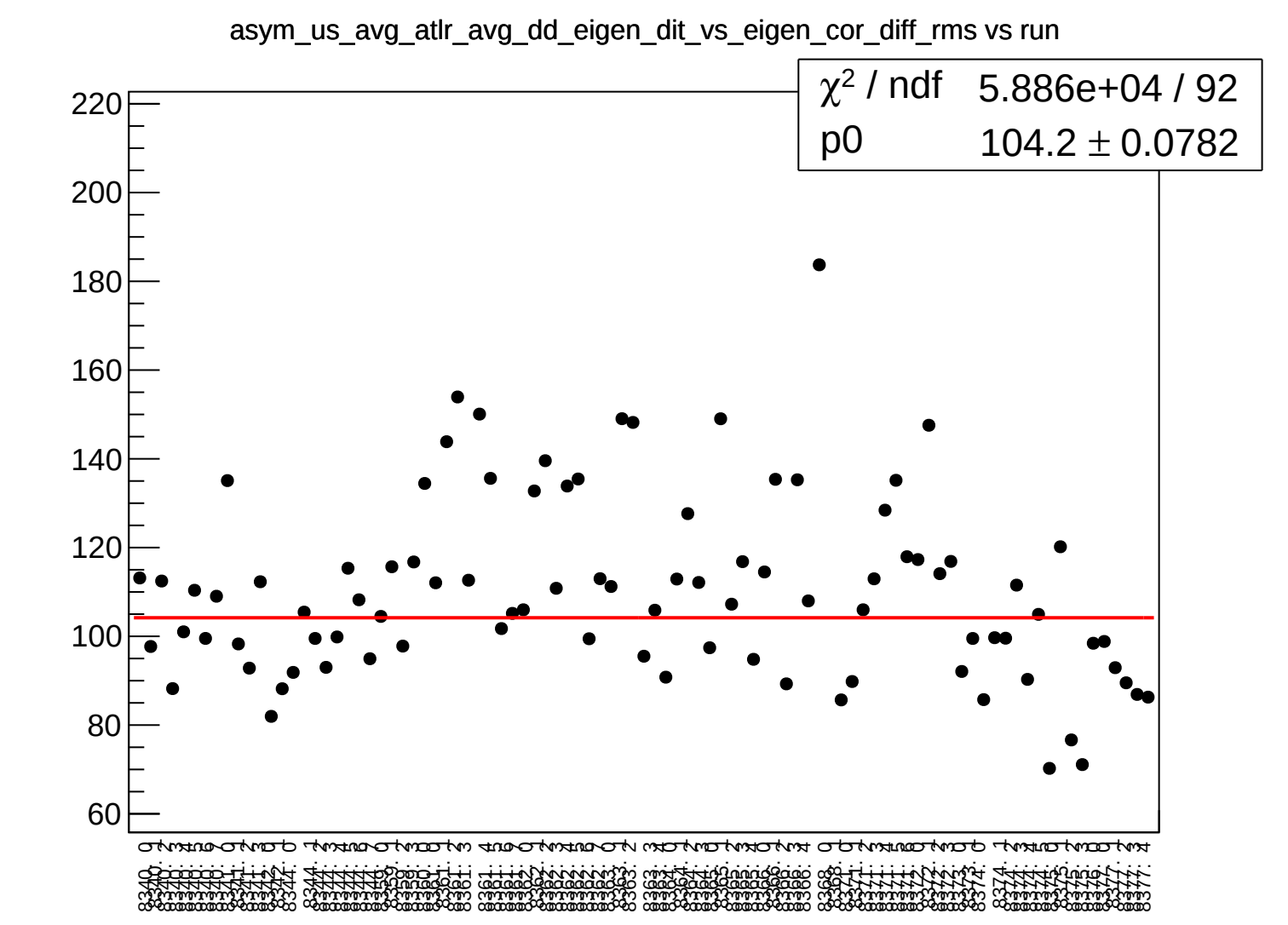

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.19 / 92
p0 2.149e−06 ± 4.691e−06
pull
Entries 93
Mean −201.6
Std Dev 0
pull1D
Entries 93
Mean −0.01149
Std Dev 1.033

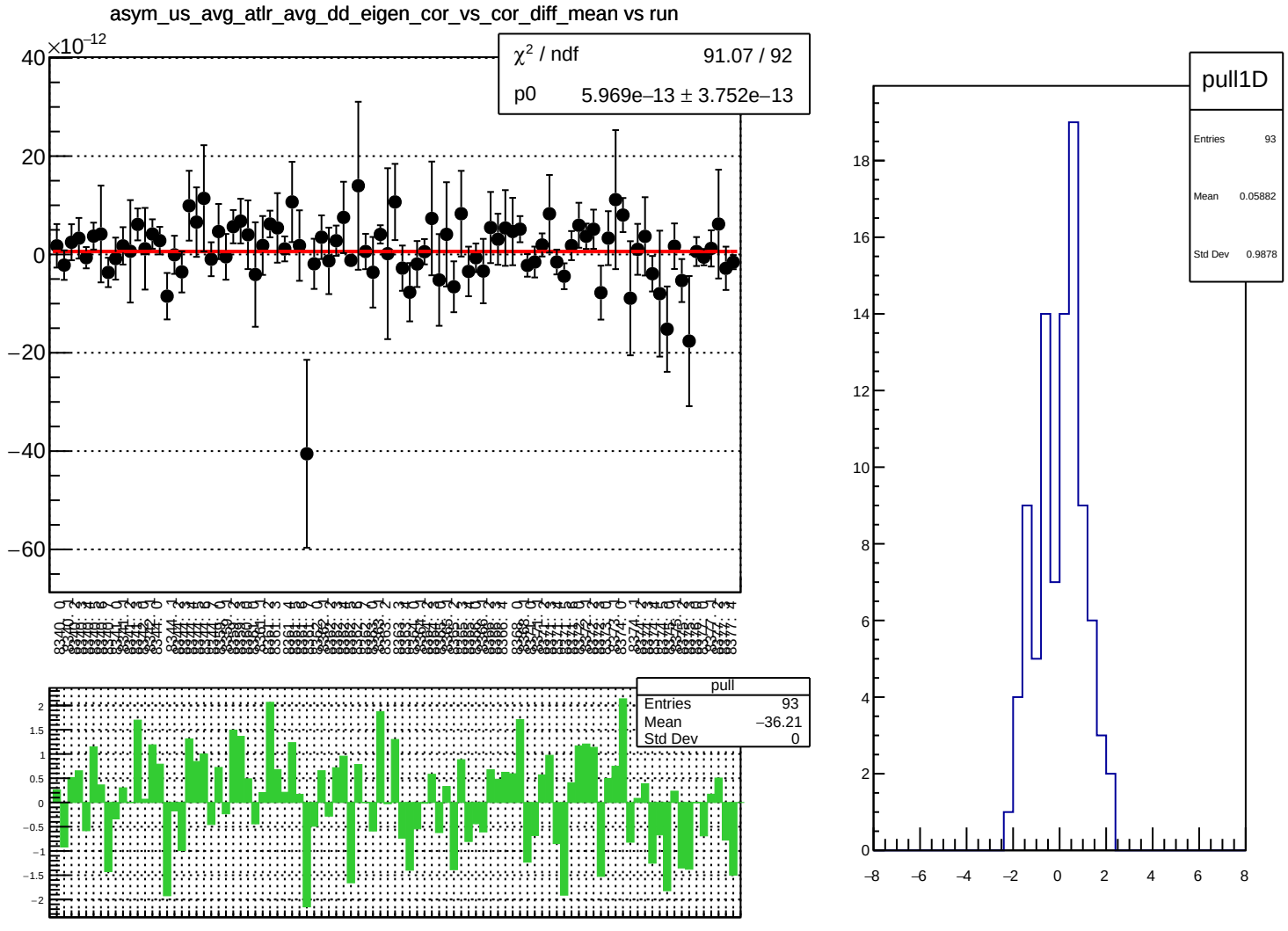

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.367e+04 / 92
p0 0.004451 ± 3.317e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

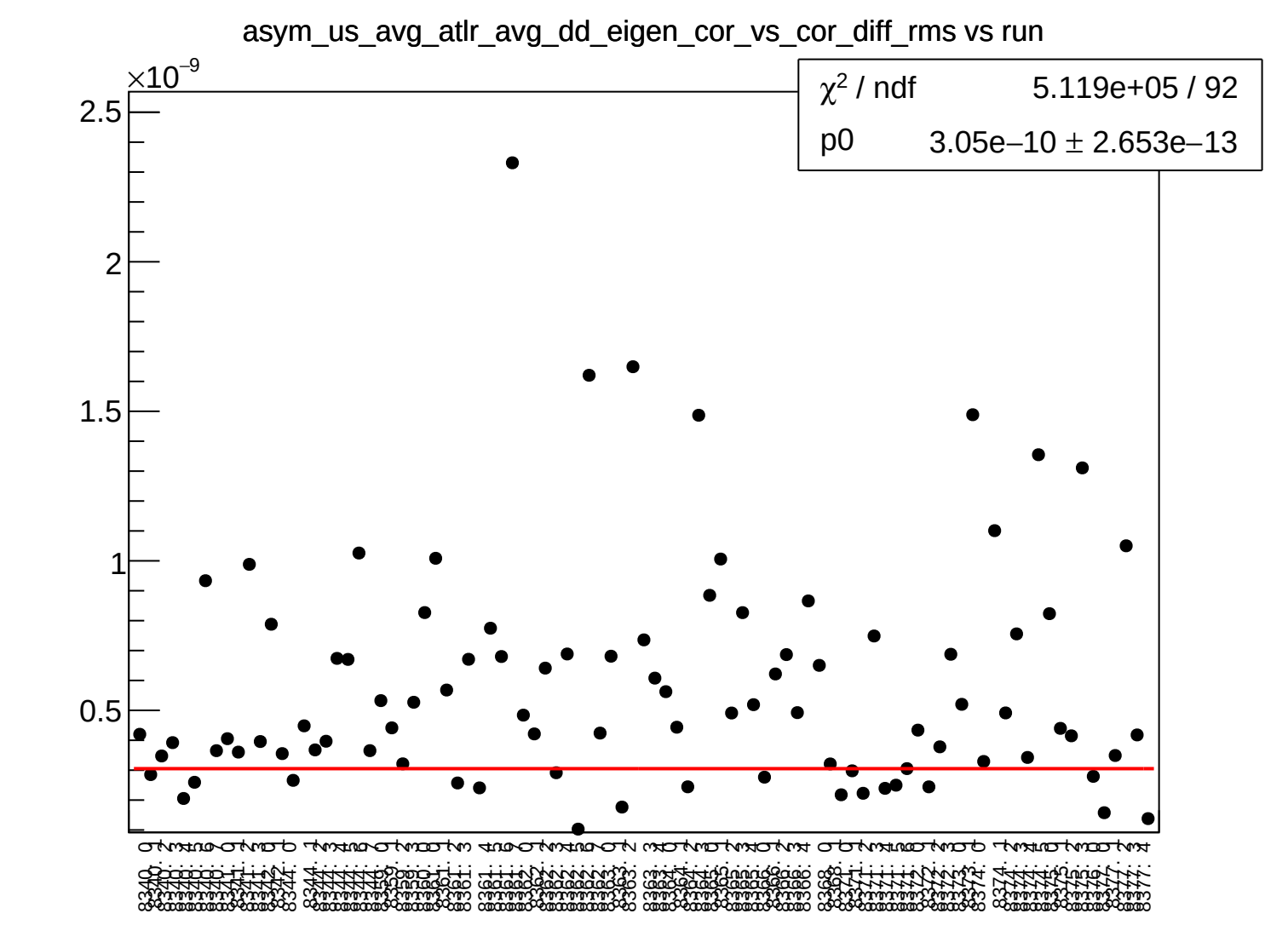

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.51 / 92
p0 0.1012 ± 0.1106
pull
Entries 93
Mean −361.5
Std Dev 0
pull1D
Entries 93
Mean −0.007693
Std Dev 0.9304

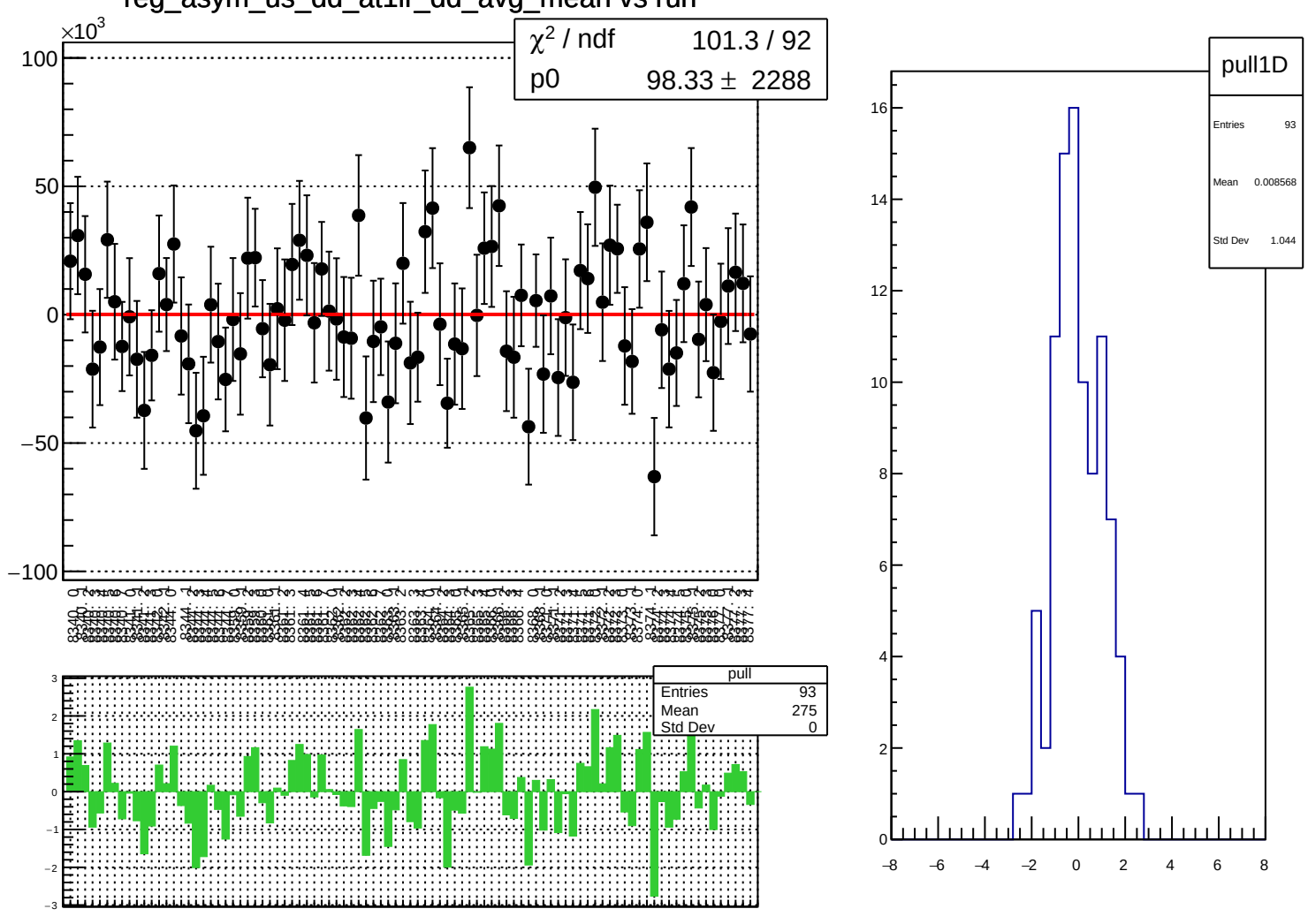

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.886e+04 / 92
p0 104.2 ± 0.0782
220
200
180
160
140
120
100
80
60

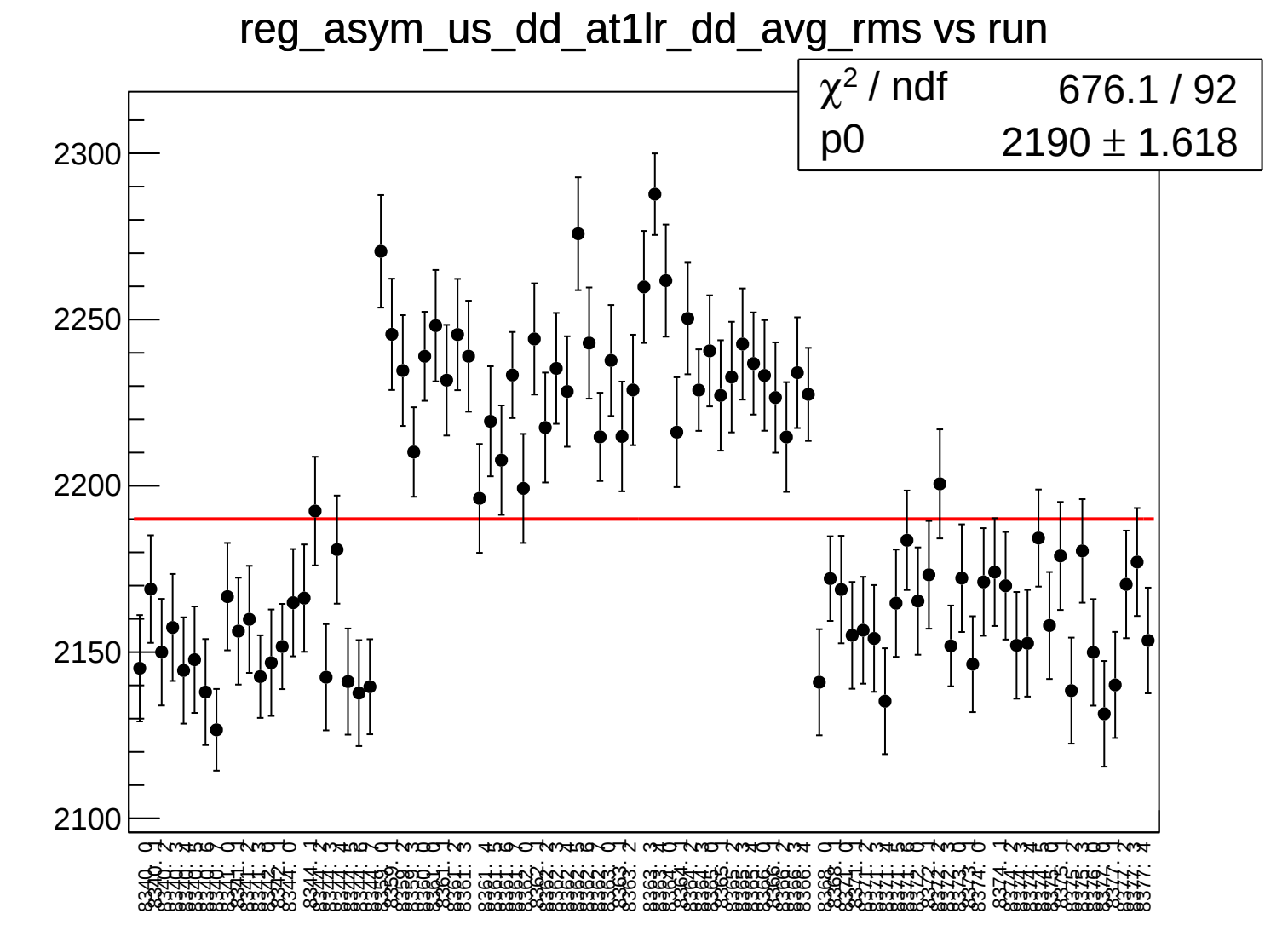

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.51 / 92
p0 0.1012 ± 0.1106
pull
Entries 93
Mean −361.5
Std Dev 0
pull1D
Entries 93
Mean −0.007693
Std Dev 0.9304

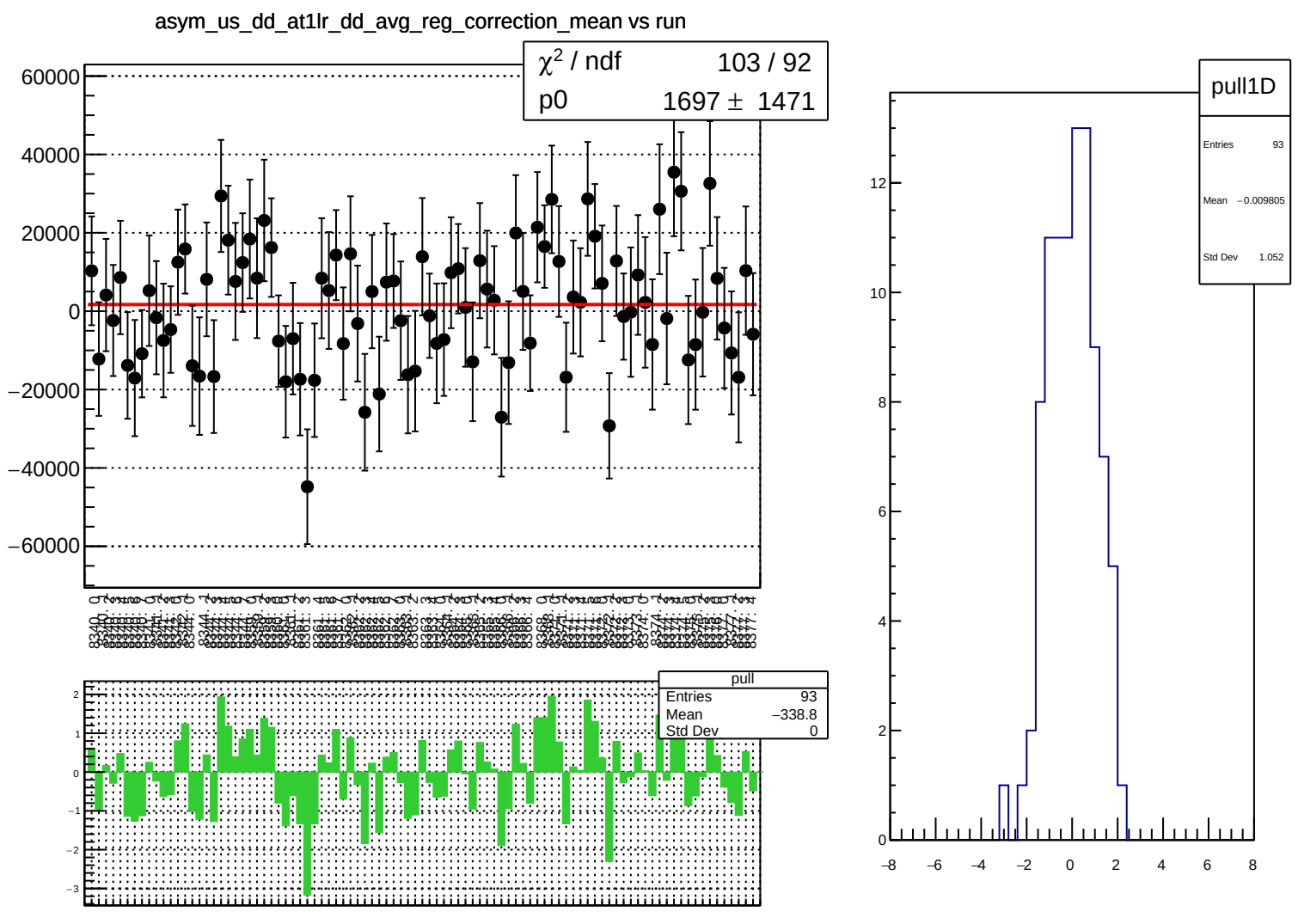

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.886e+04 / 92
p0 104.2 ± 0.0782
220
200
180
160
140
120
100
80
60

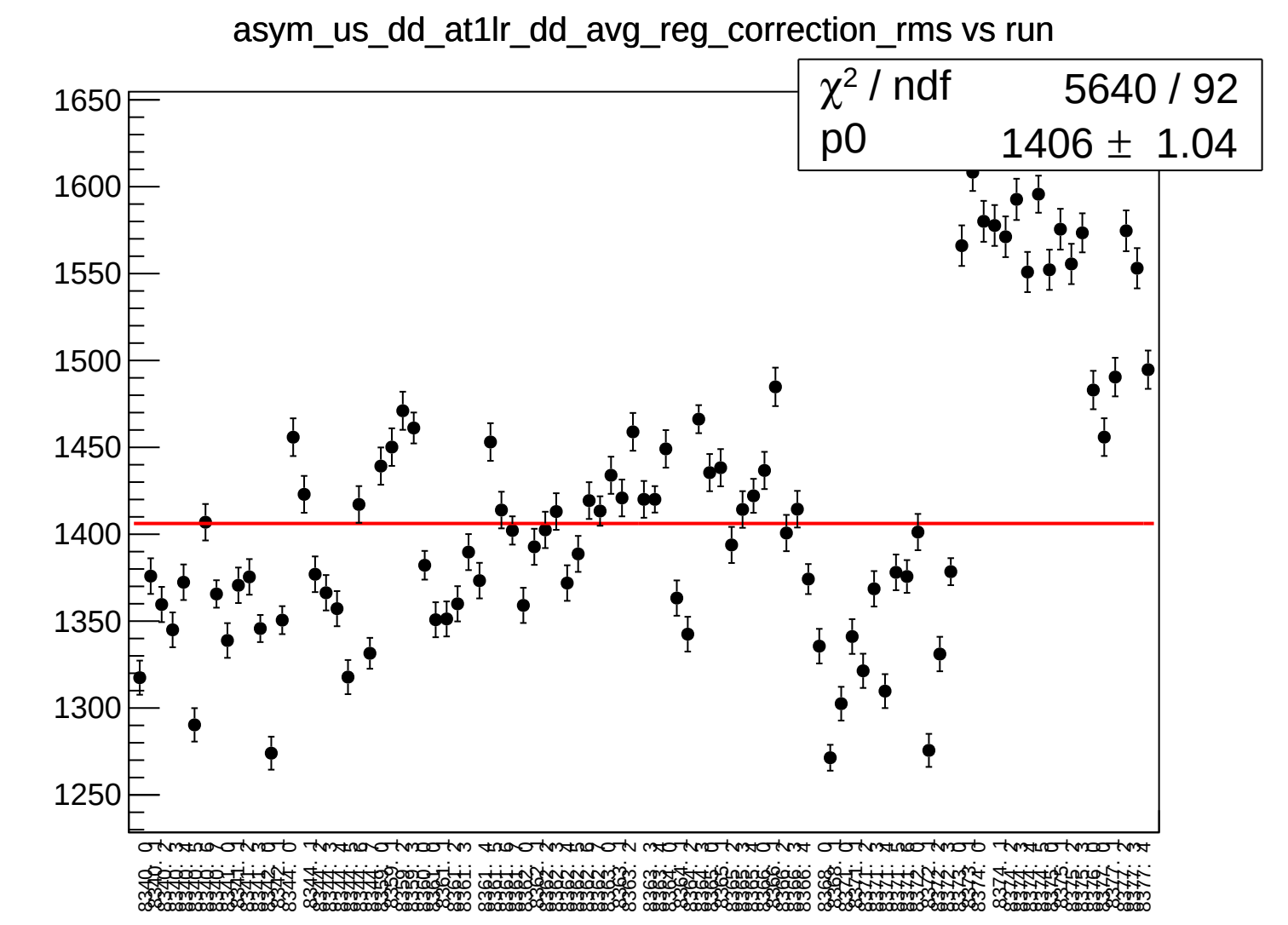

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.07 / 92
p0 5.969e−13 ± 3.752e−13
pull
Entries 93
Mean −36.21
Std Dev 0
pull1D
Entries 93
Mean 0.05882
Std Dev 0.9878

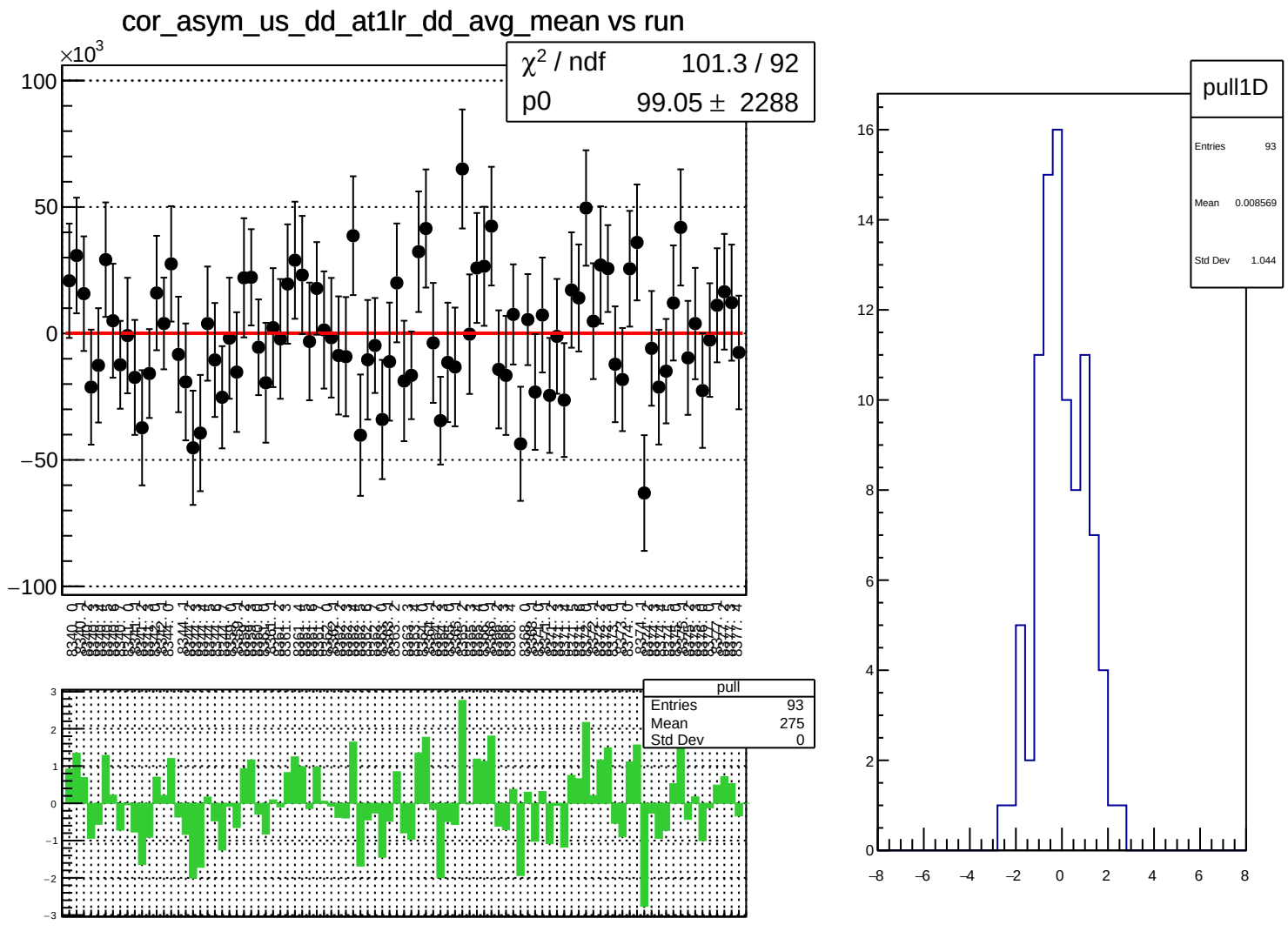

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 5.119e+05 / 92
p0 3.05e−10 ± 2.653e−13

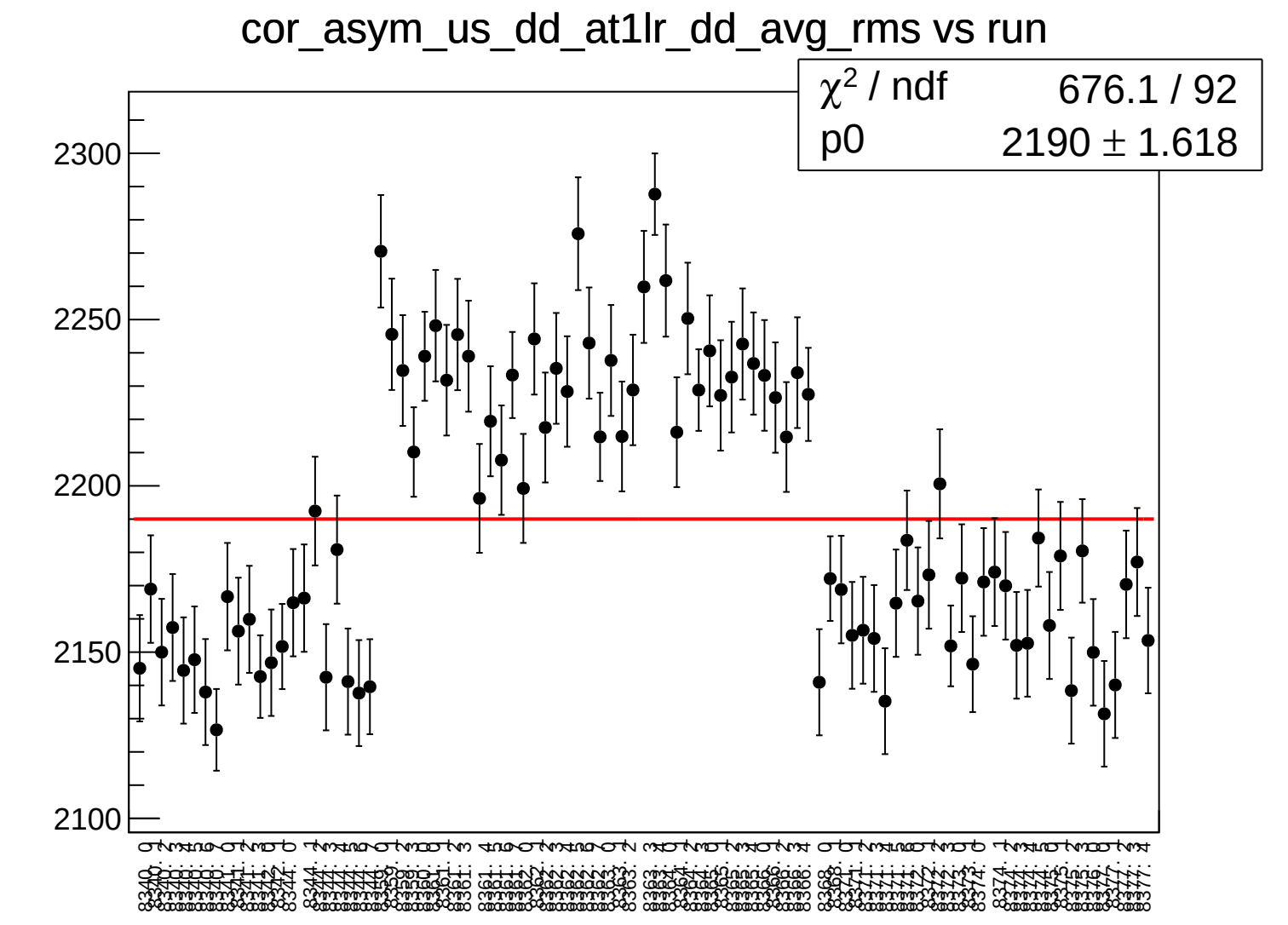

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 98.33 ± 2288
100
50
0
−50
−100
pull
Entries 93
Mean 275
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008568
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

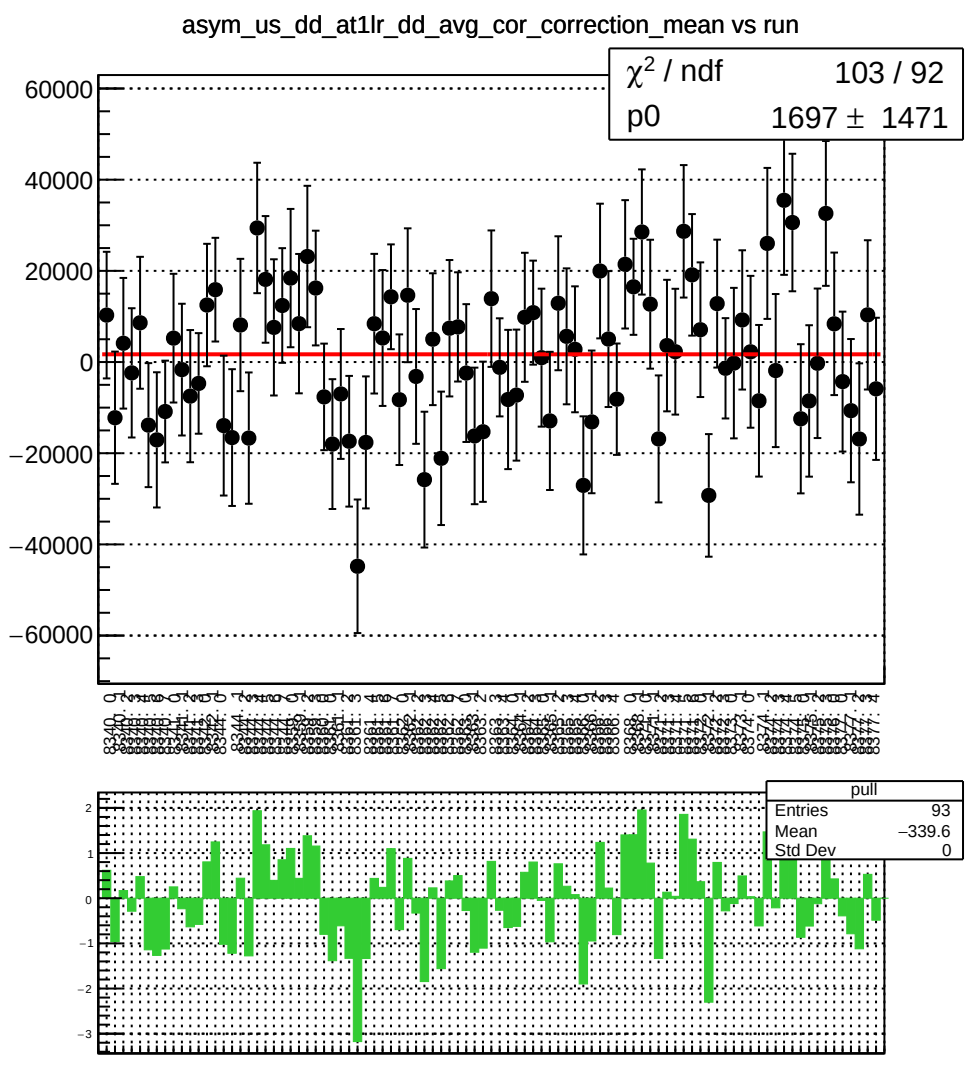

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 676.1 / 92
p0 2190 ± 1.618
2300
2250
2200
2150
2100

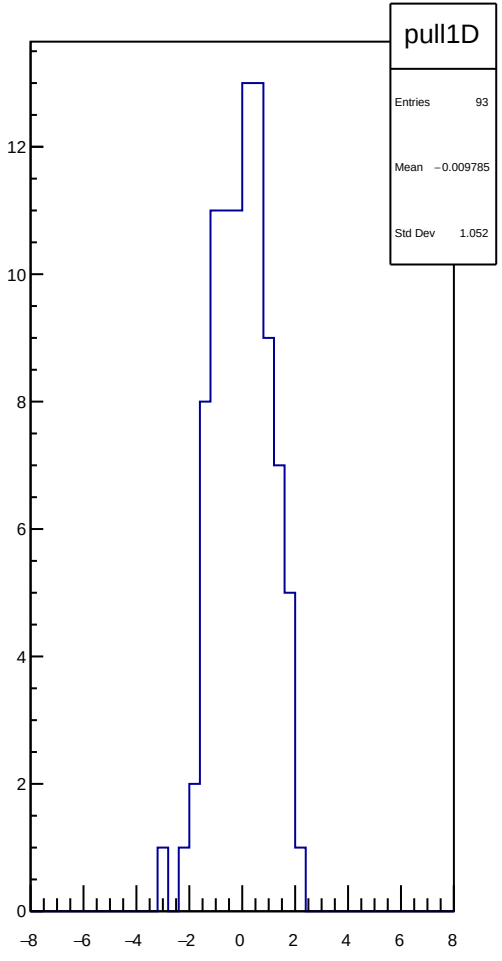

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 103 / 92
p0 1697 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −338.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009805
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

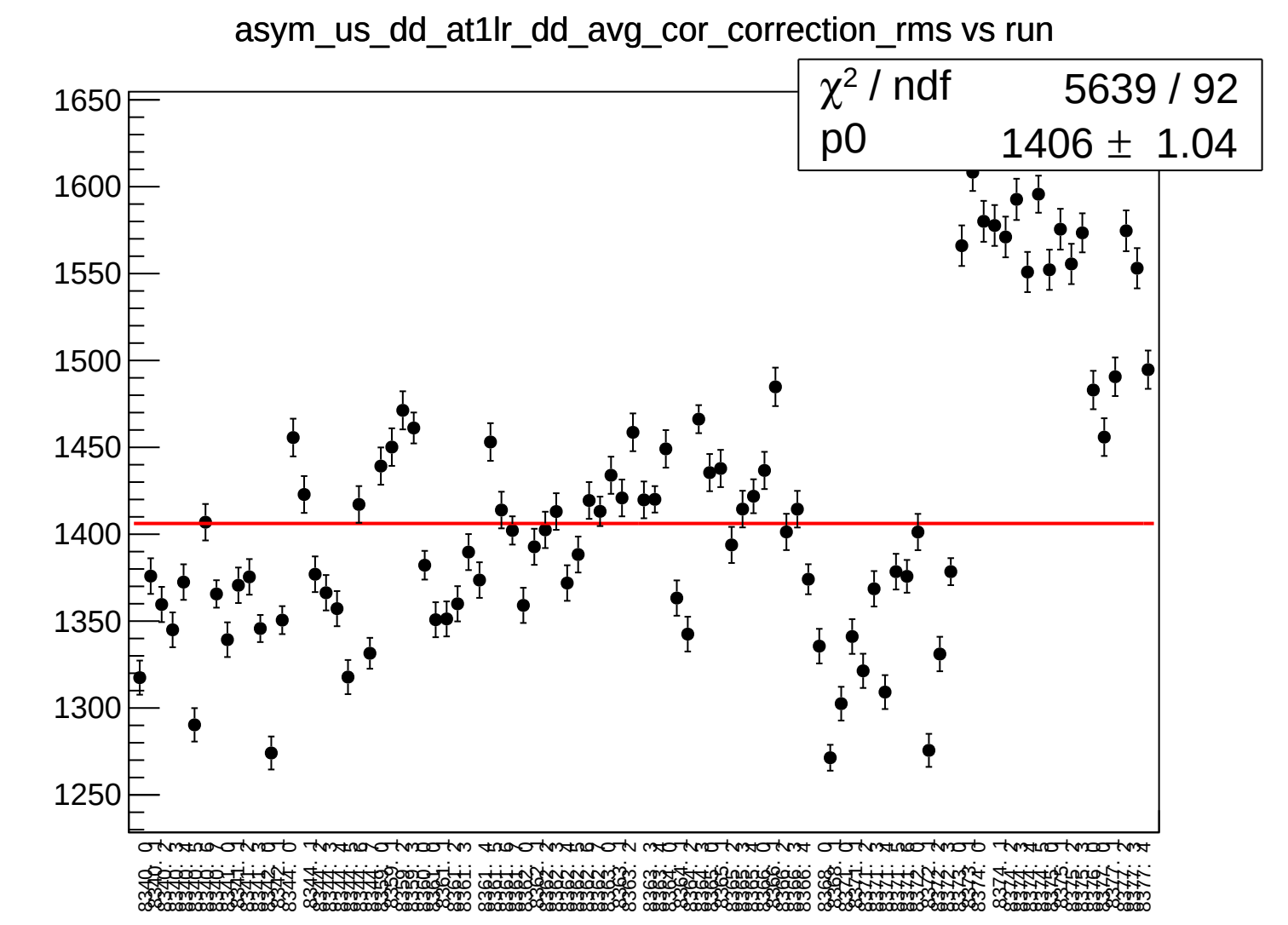

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5640 / 92
p0 1406 ± 1.04
1650
1600
1550
1500
1450
1400
1350
1300
1250

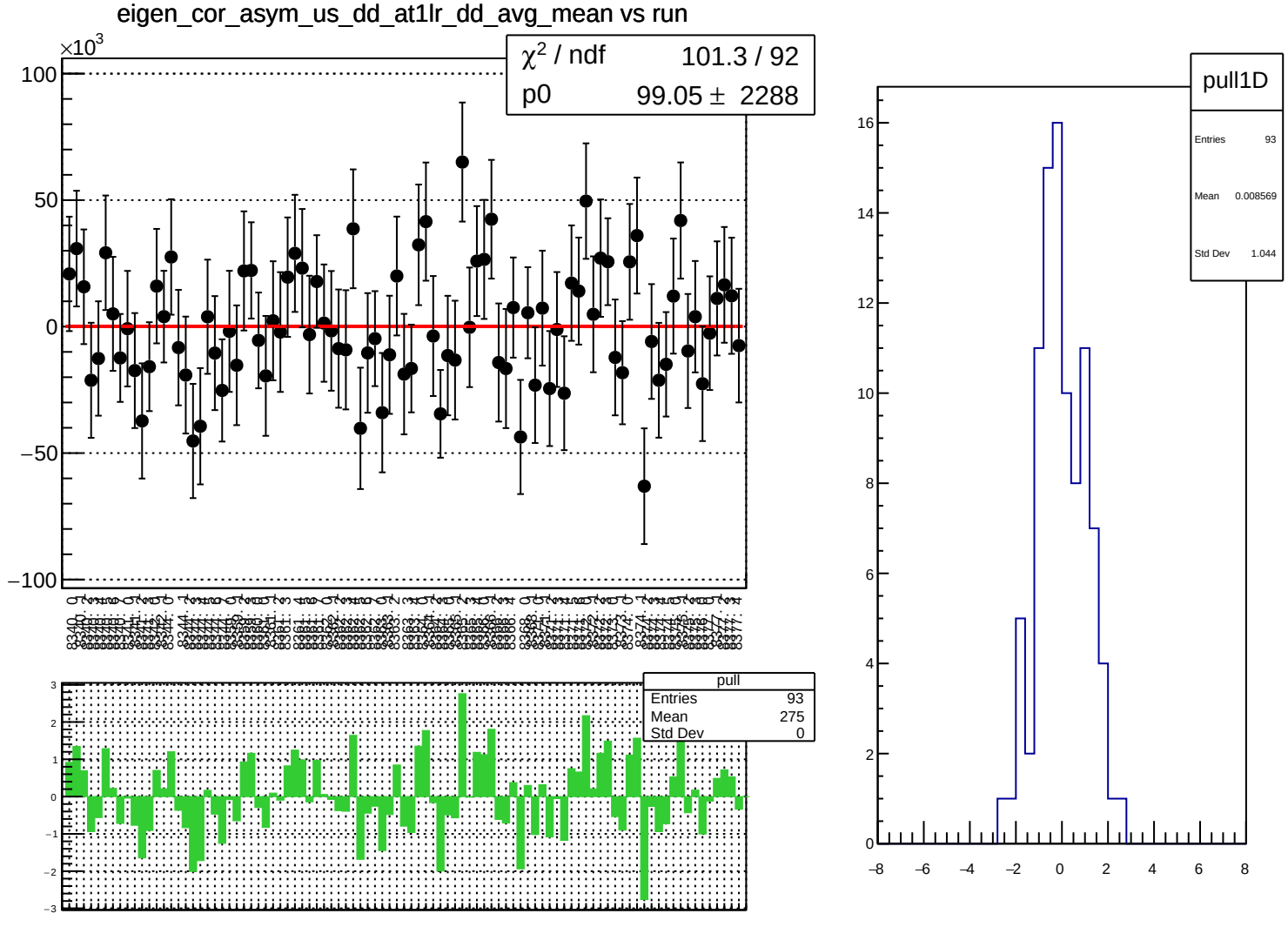

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 101.3 / 92
p0 99.05 ± 2288
100
50
0
−50
−100
pull
Entries 93
Mean 275
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008569
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

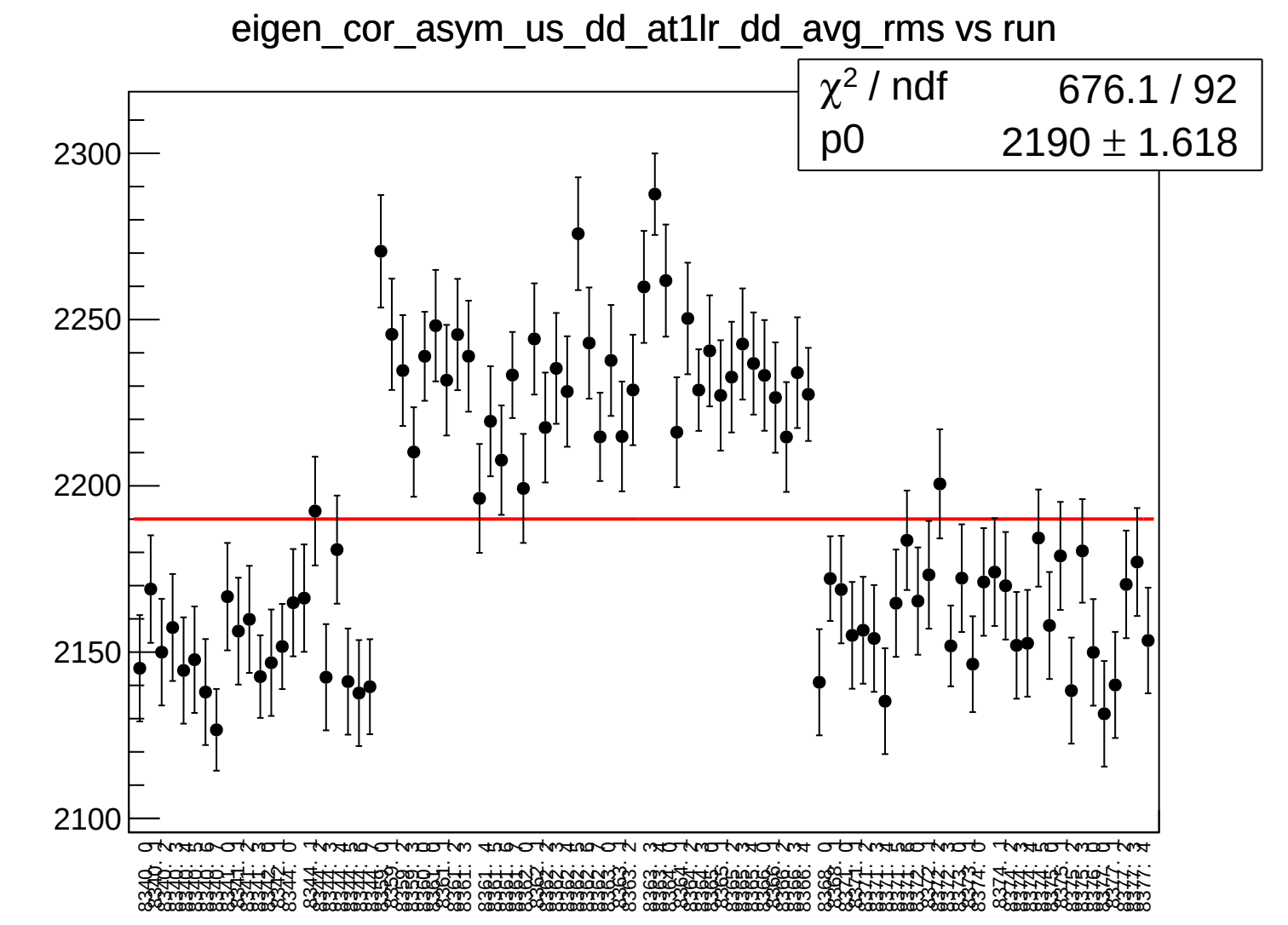

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 676.1 / 92
p0 2190 ± 1.618
2300
2250
2200
2150
2100

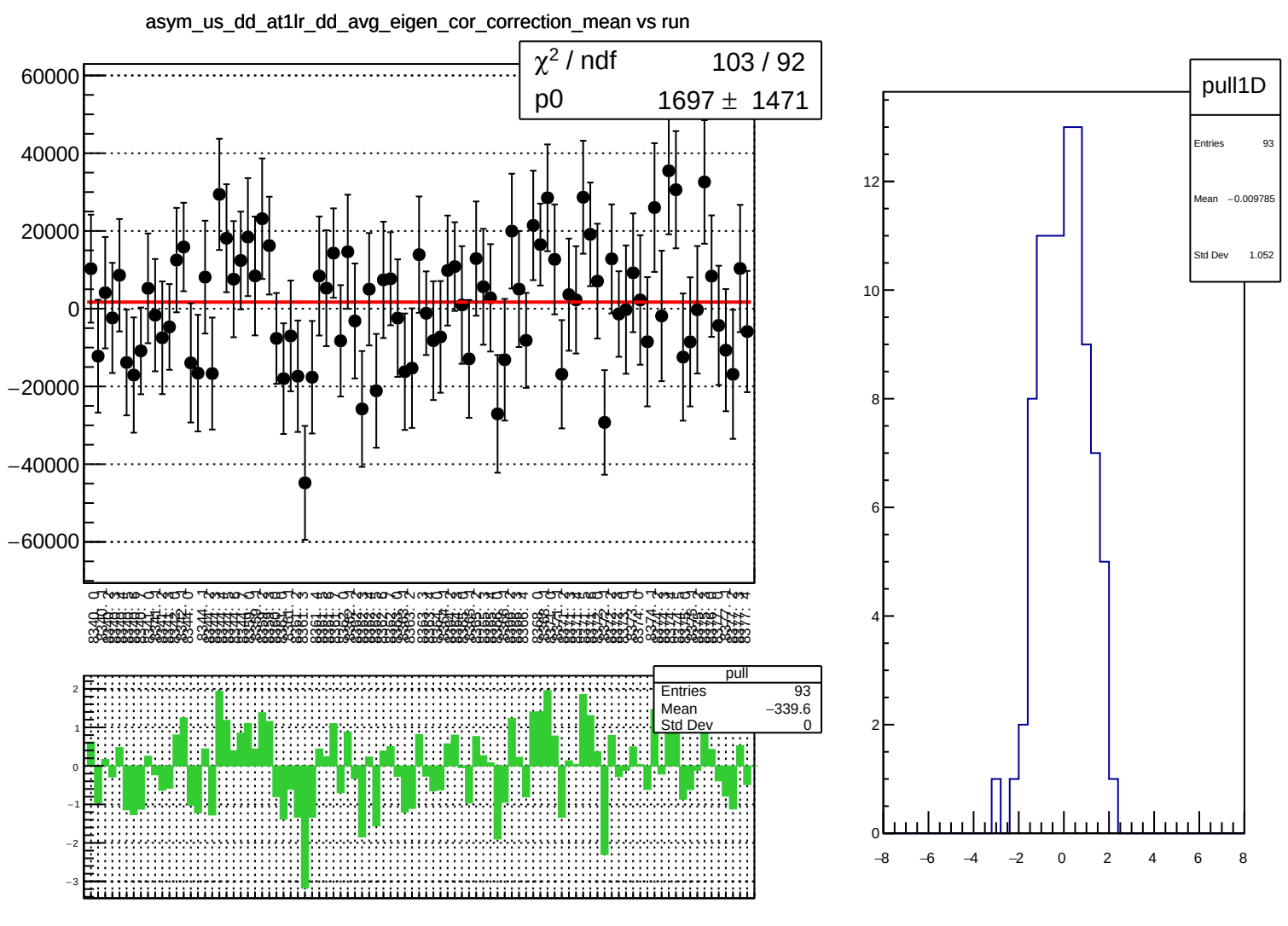

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 103 / 92
p0 1697 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −339.6
Std Dev 0
2
1
0
−1
−2
−3

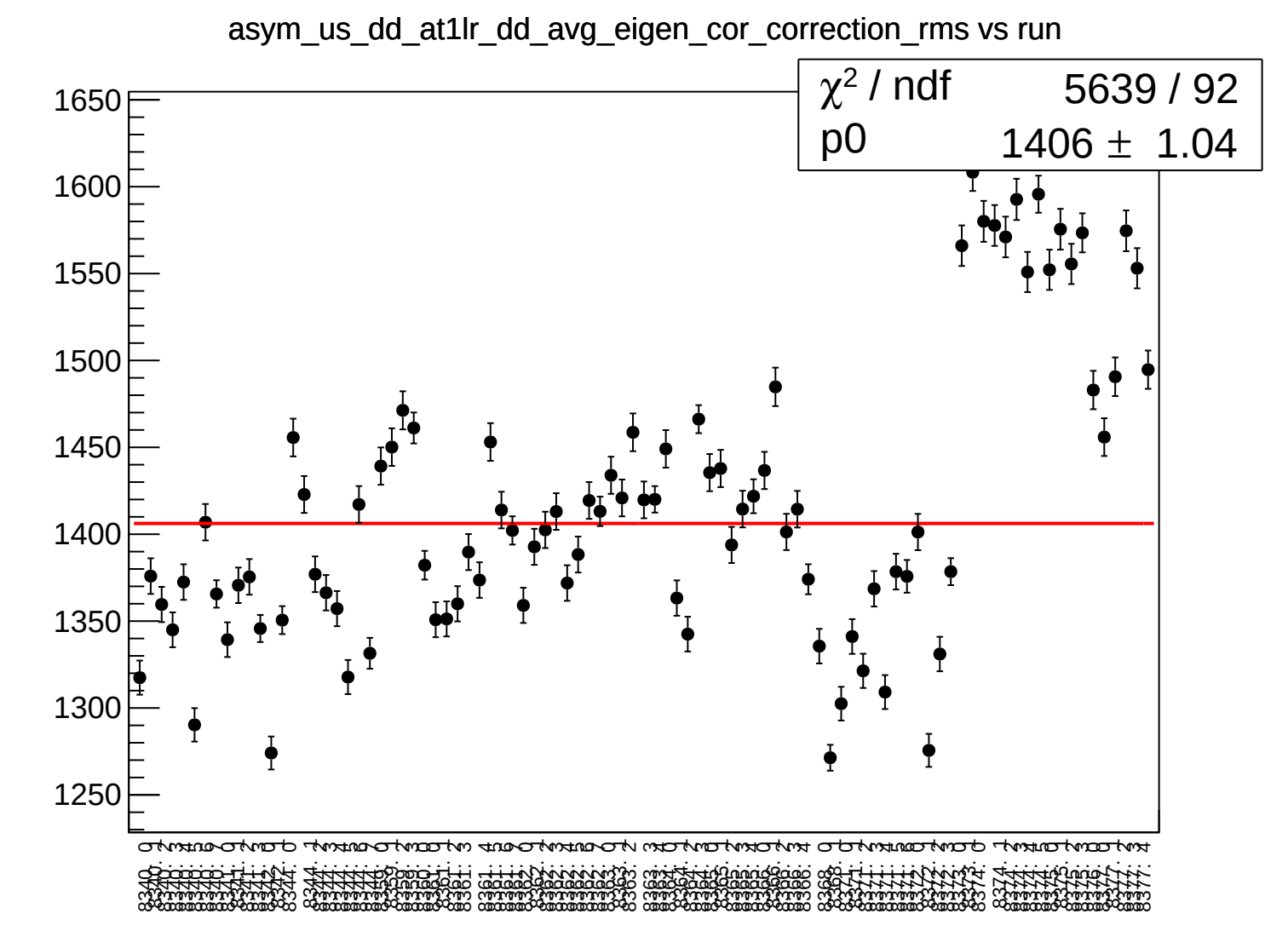

pull1D
Entries 93
Mean −0.009785
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

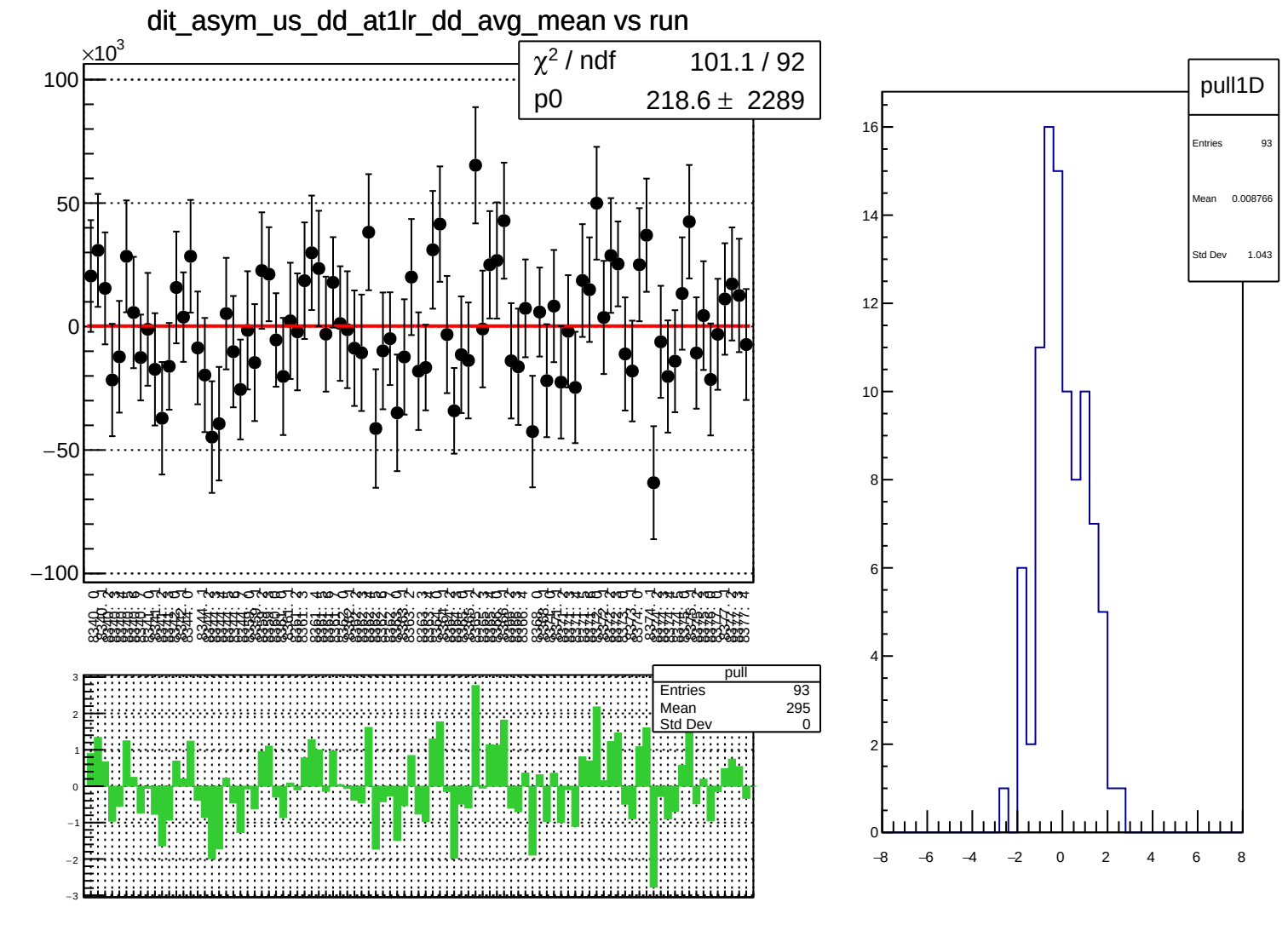

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5639 / 92
p0 1406 ± 1.04
1650
1600
1550
1500
1450
1400
1350
1300
1250

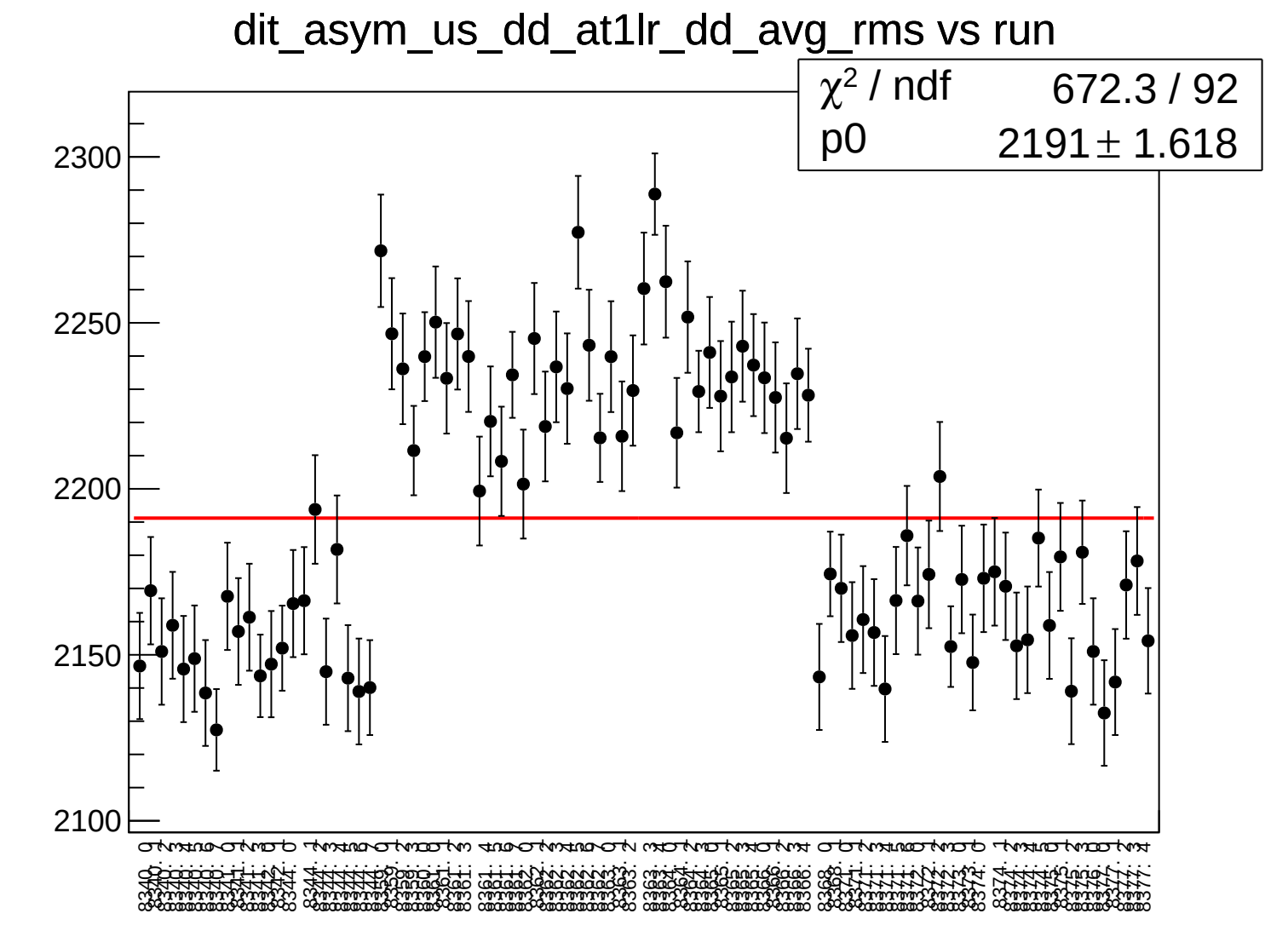

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.3 / 92
p0 99.05 ± 2288
100
50
0
−50
−100
pull
Entries 93
Mean 275
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.008569
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

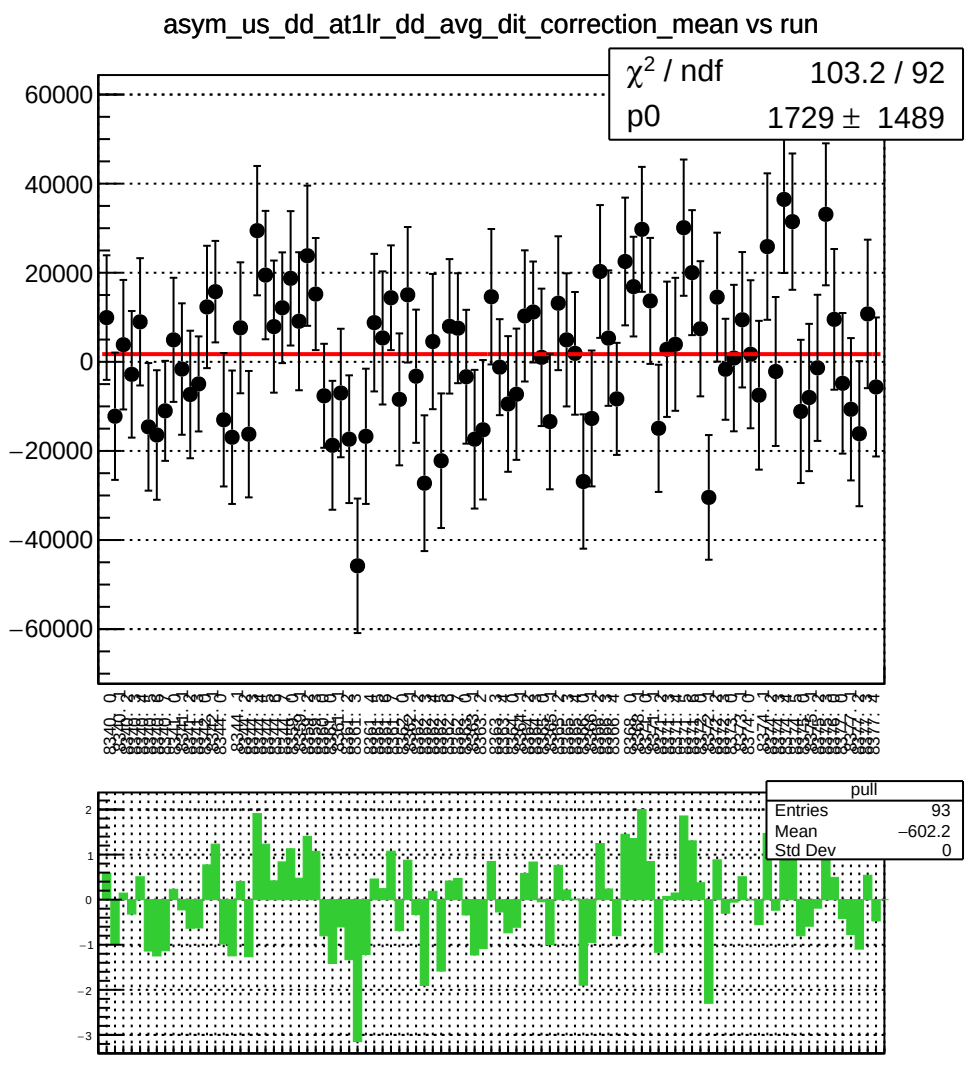

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 676.1 / 92
p0 2190 ± 1.618
2300
2250
2200
2150
2100

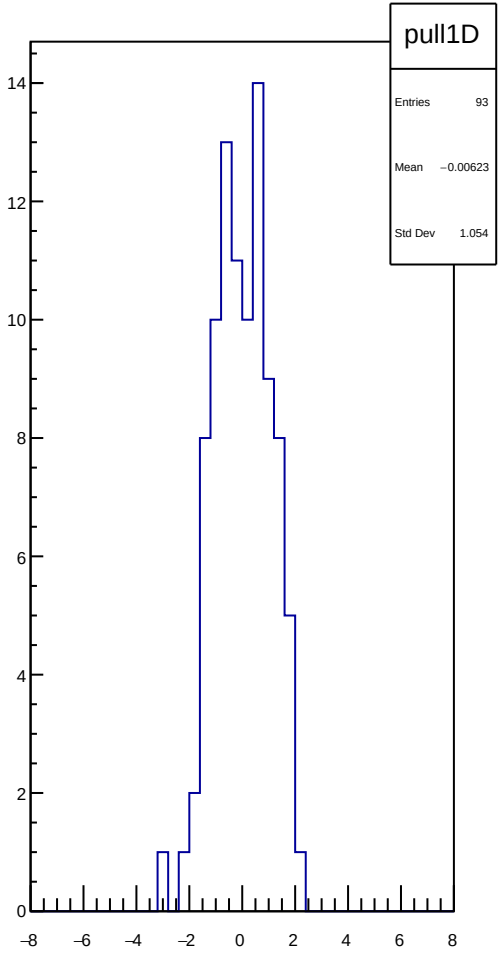

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 103 / 92
p0 1697 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −339.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009785
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

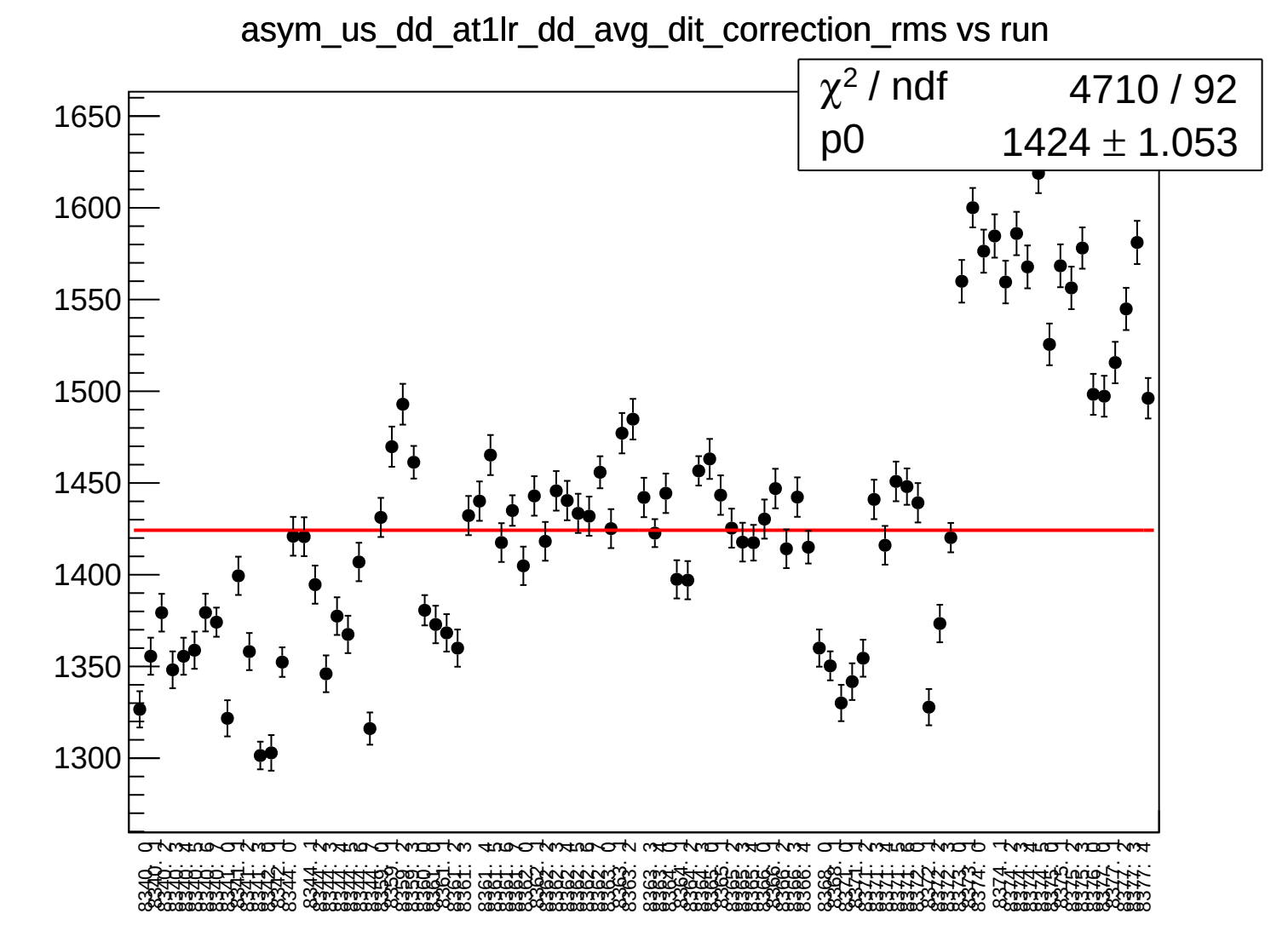

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5639 / 92
p0 1406 ± 1.04
1650
1600
1550
1500
1450
1400
1350
1300
1250

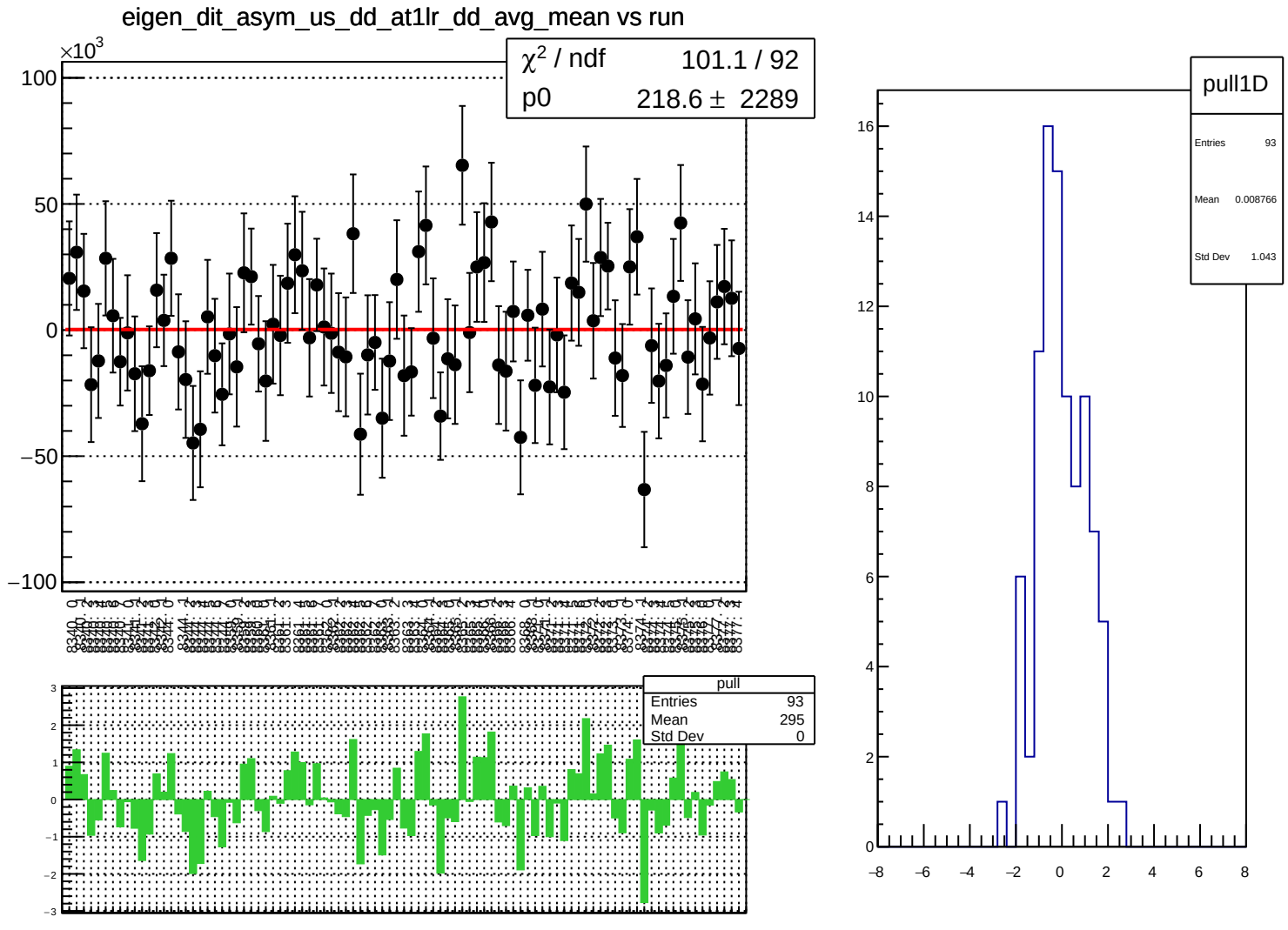

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 101.1 / 92
p0 218.6 ± 2289
pull
Entries 93
Mean 295
Std Dev 0
pull1D
Entries 93
Mean 0.008766
Std Dev 1.043

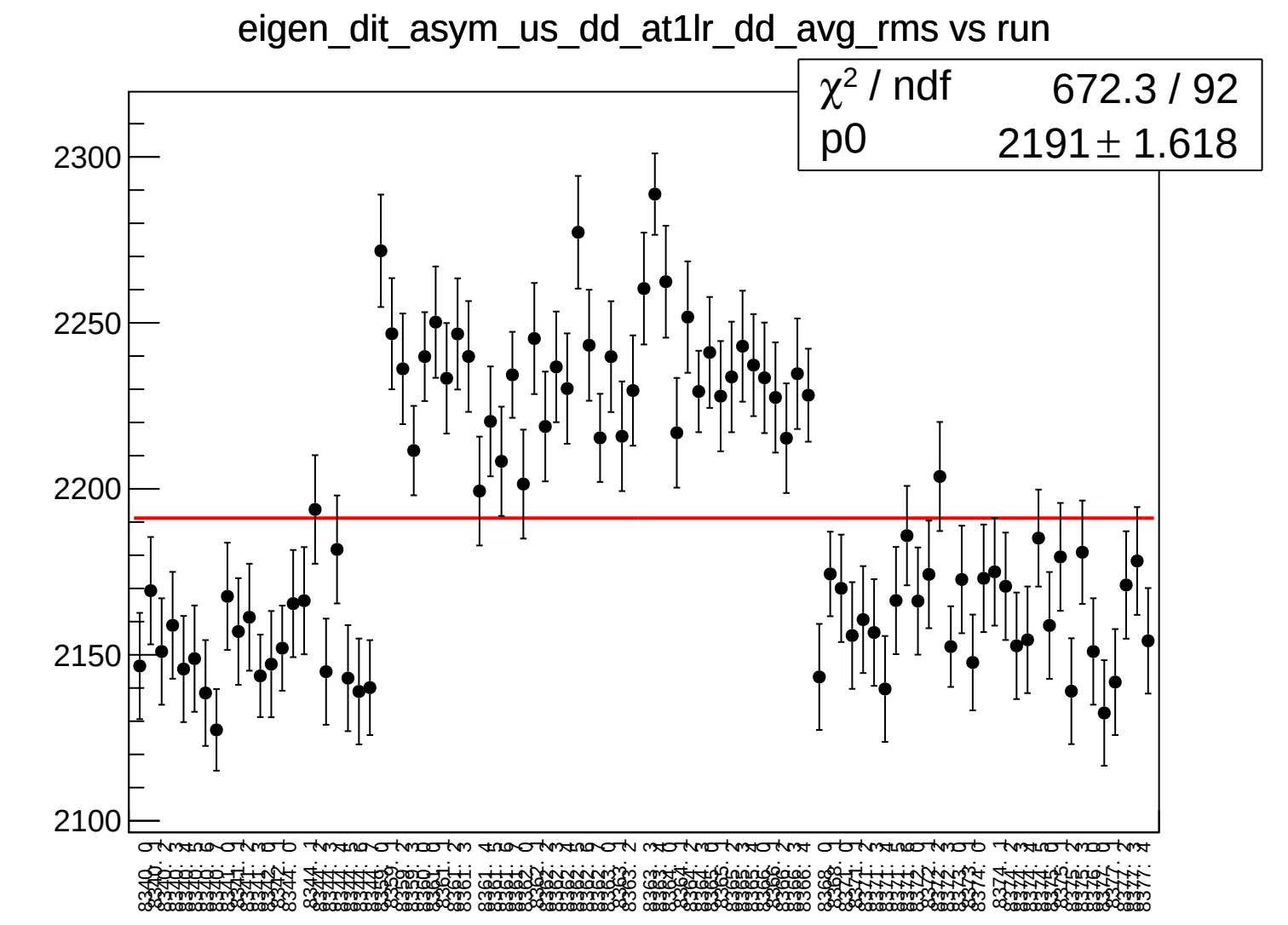

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 672.3 / 92
p0 2191 ± 1.618
2300
2250
2200
2150
2100

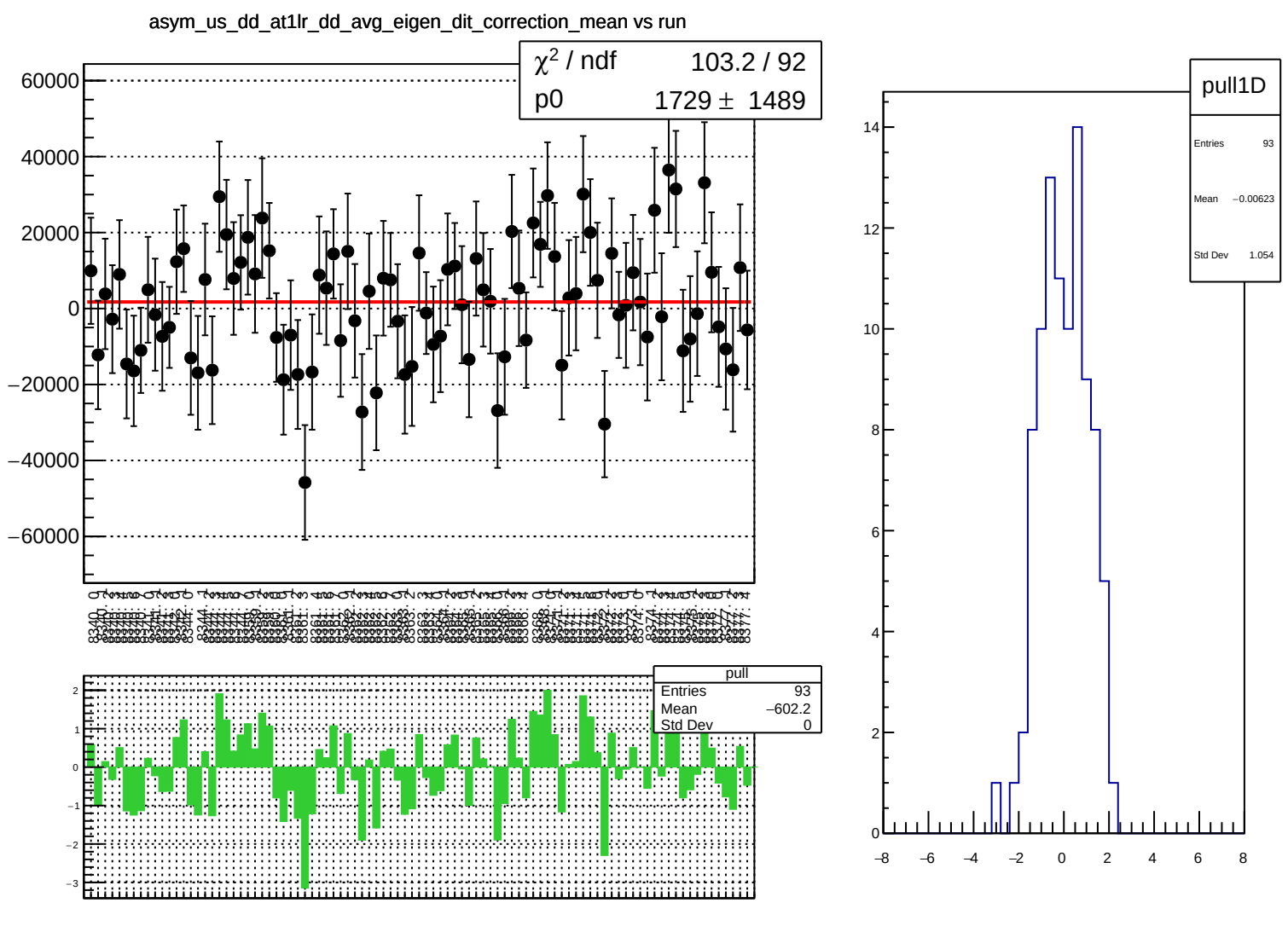

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 103.2 / 92
p0 1729 ± 1489
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −602.2
Std Dev 0
2
1
0
−1
−2
−3

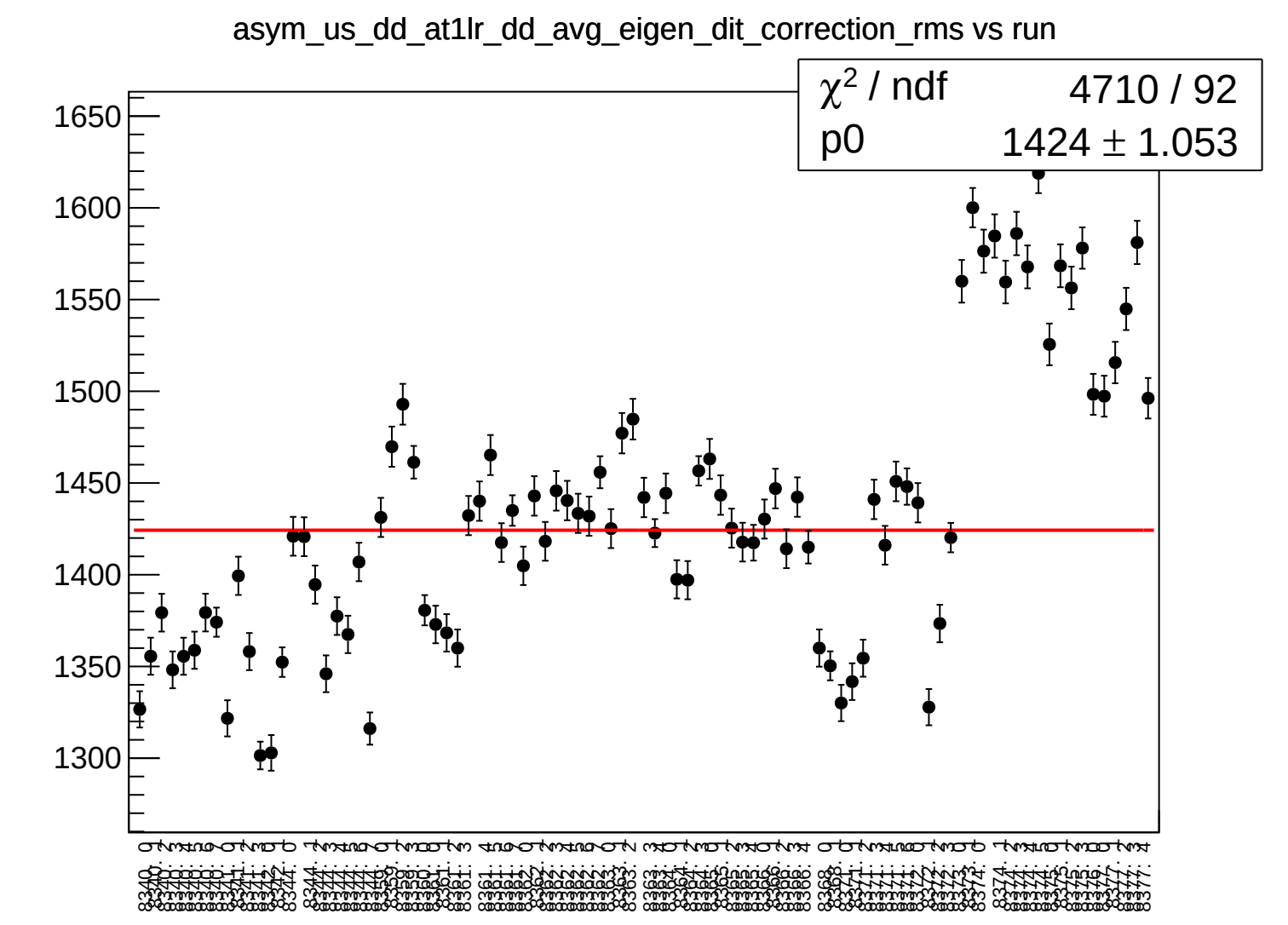

pull1D
Entries 93
Mean −0.00623
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

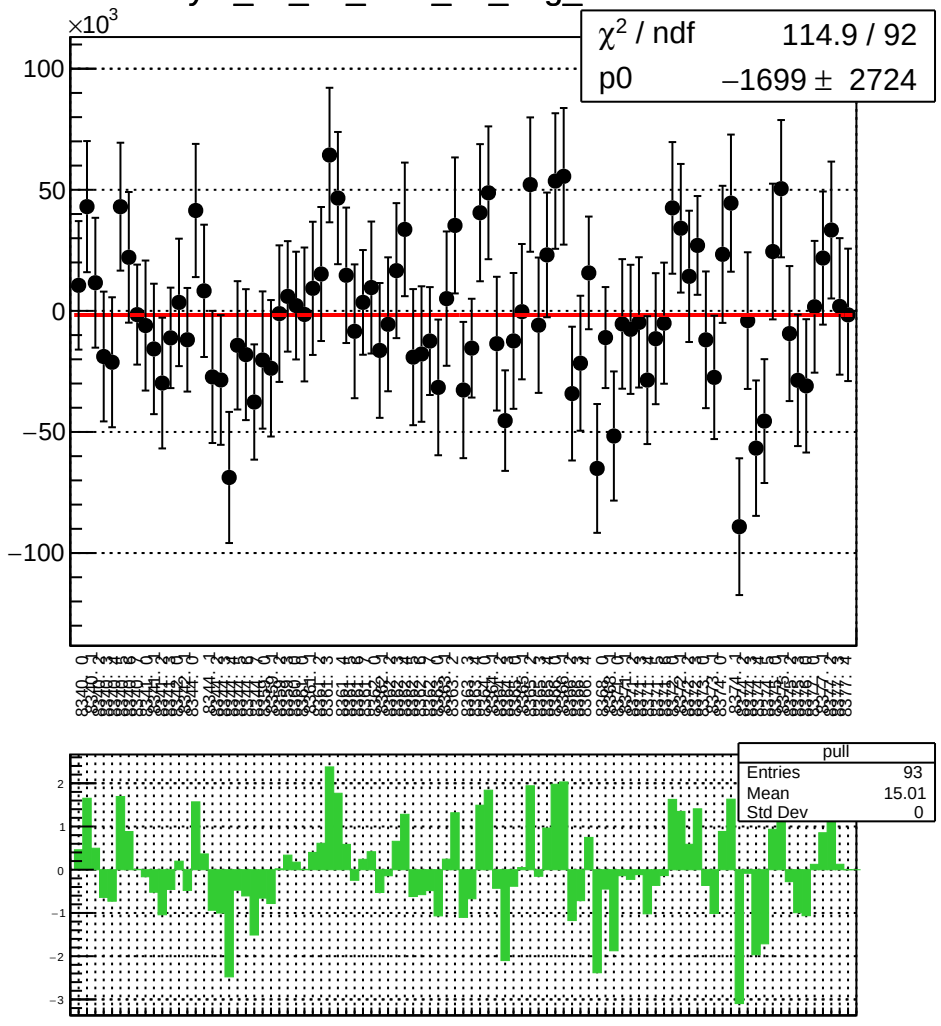

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4710 / 92
p0 1424 ± 1.053
1650
1600
1550
1500
1450
1400
1350
1300

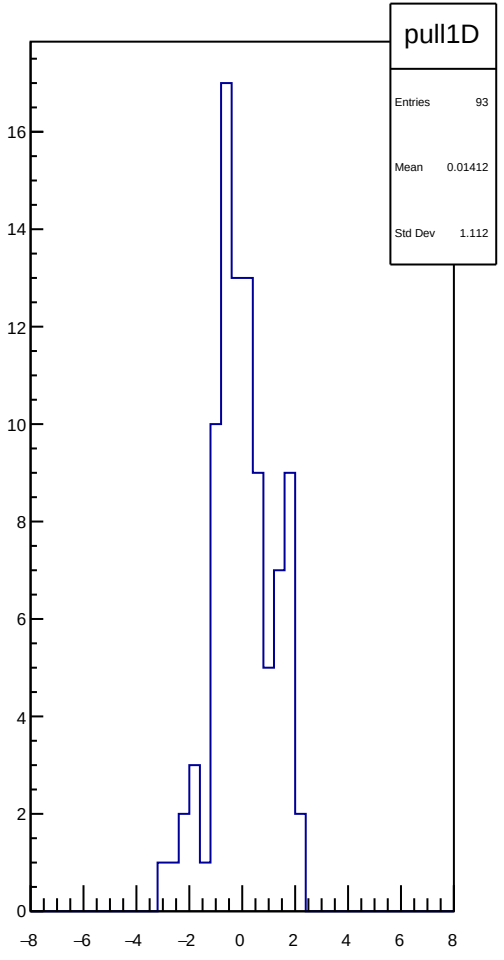

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.1 / 92
p0 218.6 ± 2289
pull
Entries 93
Mean 295
Std Dev 0
pull1D
Entries 93
Mean 0.008766
Std Dev 1.043

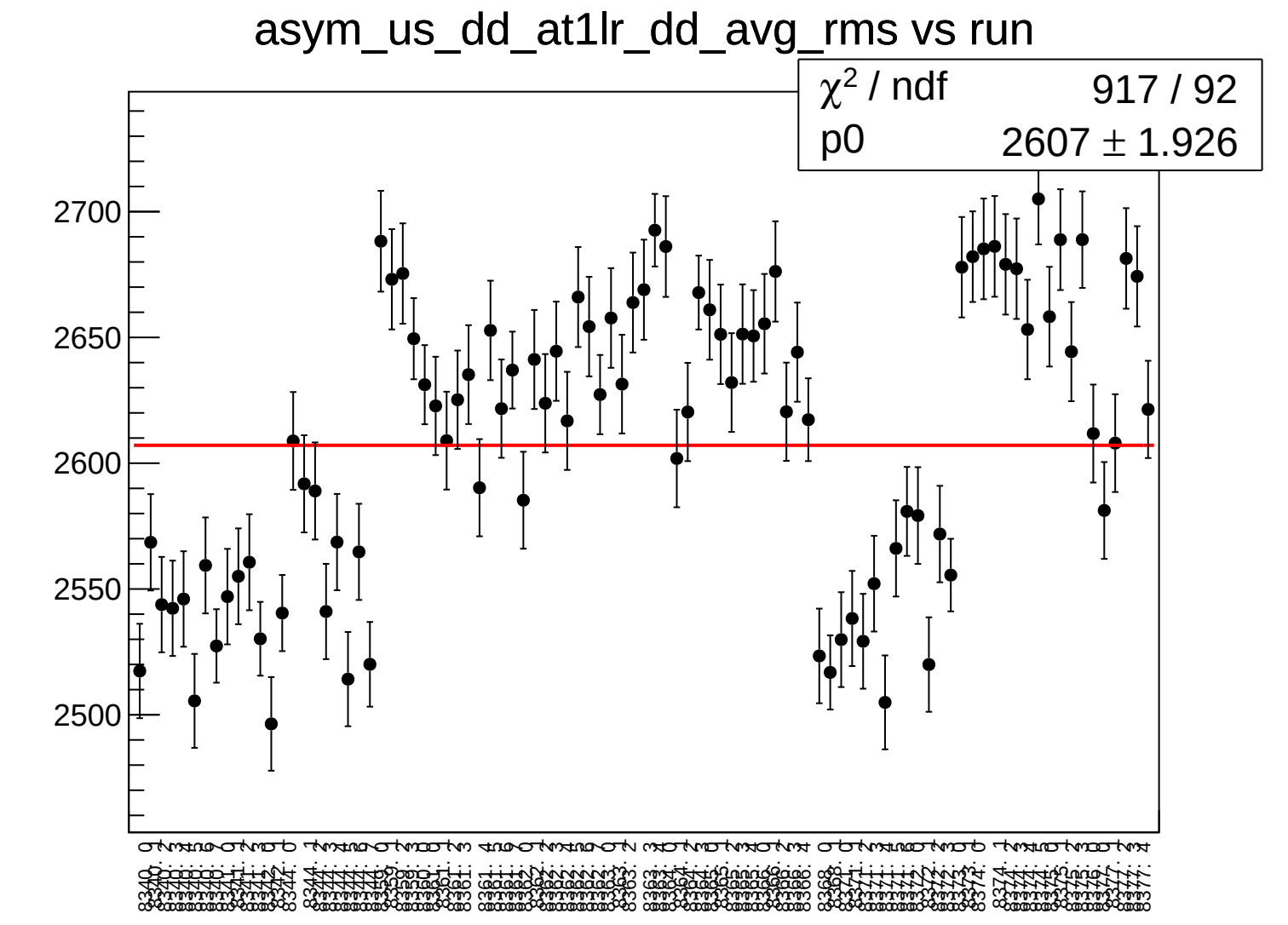

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 672.3 / 92
p0 2191 ± 1.618
2300
2250
2200
2150
2100

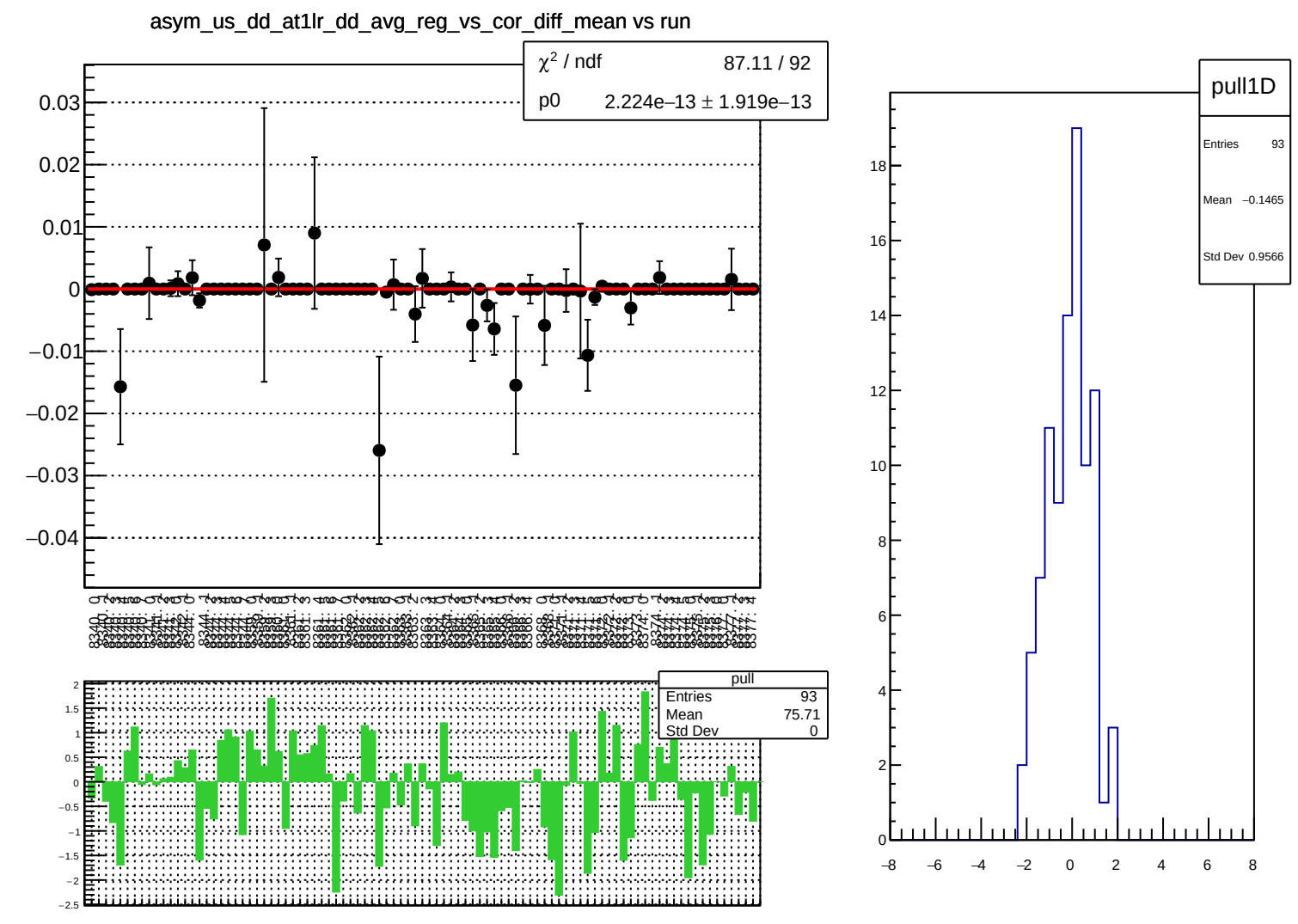

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 103.2 / 92
p0 1729 ± 1489
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −602.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.00623
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

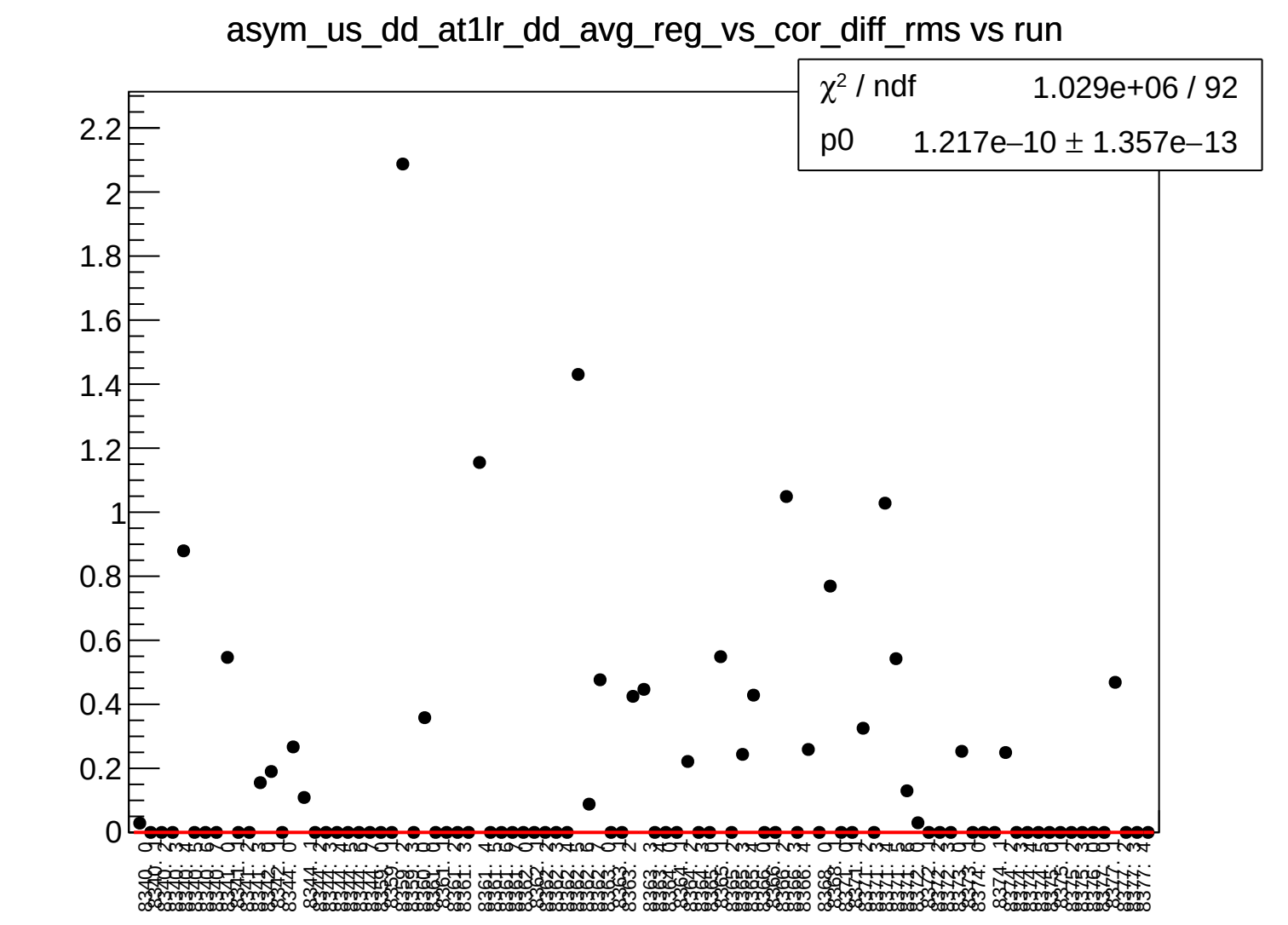

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4710 / 92
p0 1424 ± 1.053
1650
1600
1550
1500
1450
1400
1350
1300

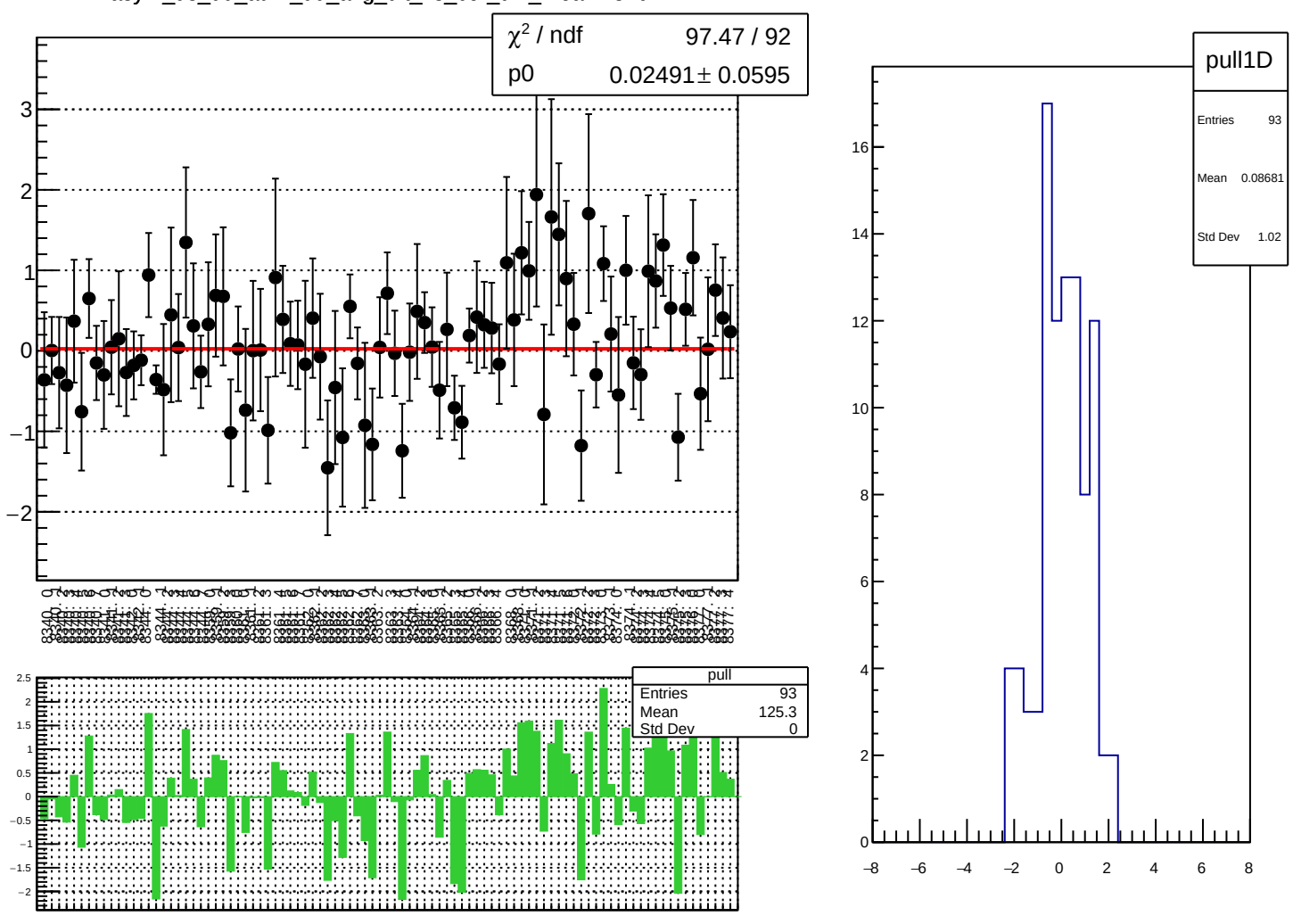

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 114.9 / 92
p0 −1699 ± 2724
100
50
0
−50
−100
pull
Entries 93
Mean 15.01
Std Dev 0
2
1
0
−1
−2
−3

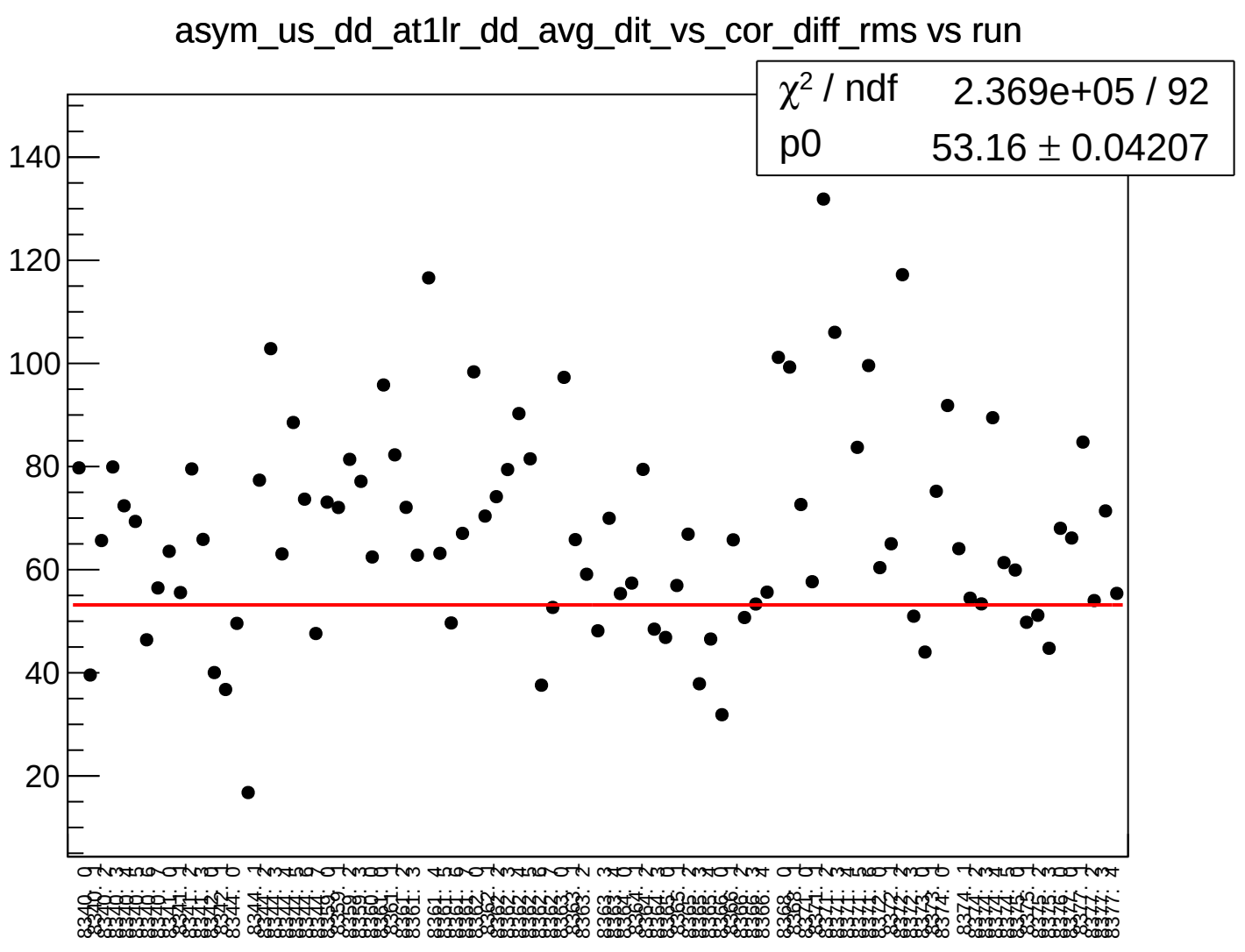

pull1D
Entries 93
Mean 0.01412
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 917 / 92
p0 2607 ± 1.926
2700
2650
2600
2550
2500

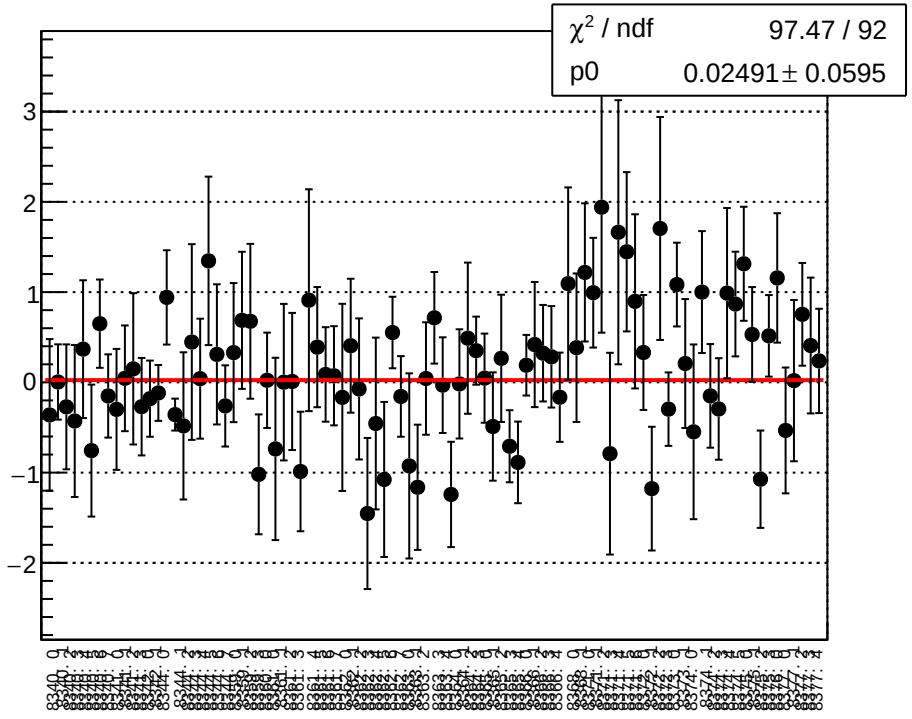

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.11 / 92
p0 2.224e−13 ± 1.919e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 75.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.1465
Std Dev 0.9566
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

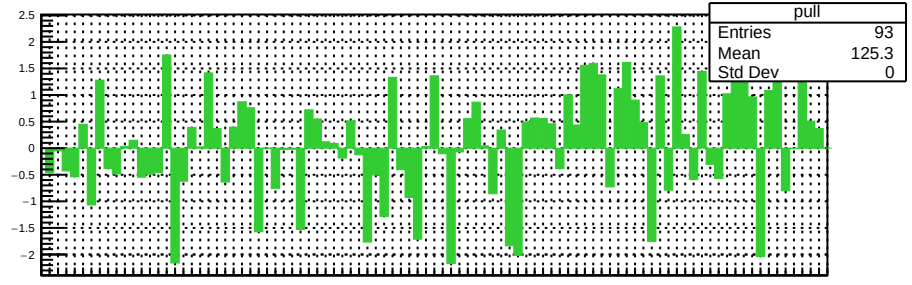

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 92
p0 1.217e−10 ± 1.357e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

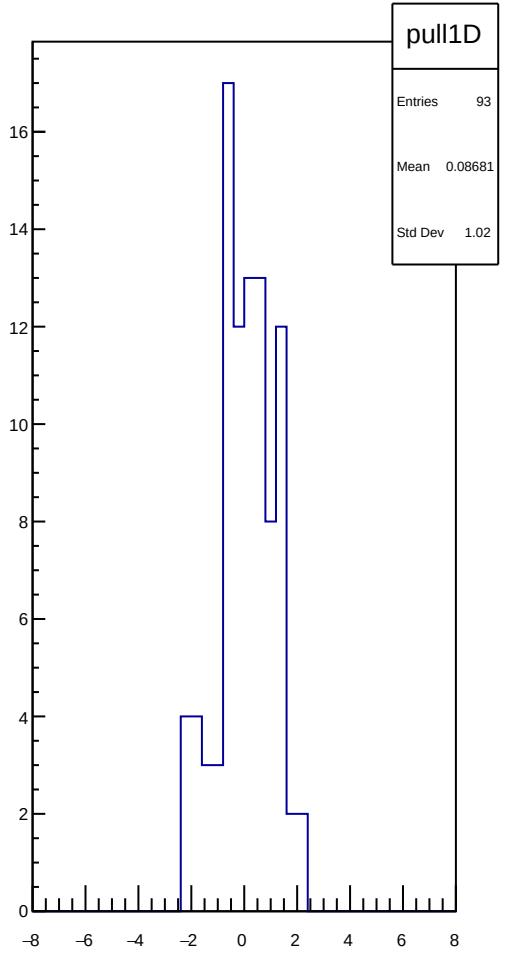

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.47 / 92
p0 0.02491 ± 0.0595
pull
Entries 93
Mean 125.3
Std Dev 0
pull1D
Entries 93
Mean 0.08681
Std Dev 1.02

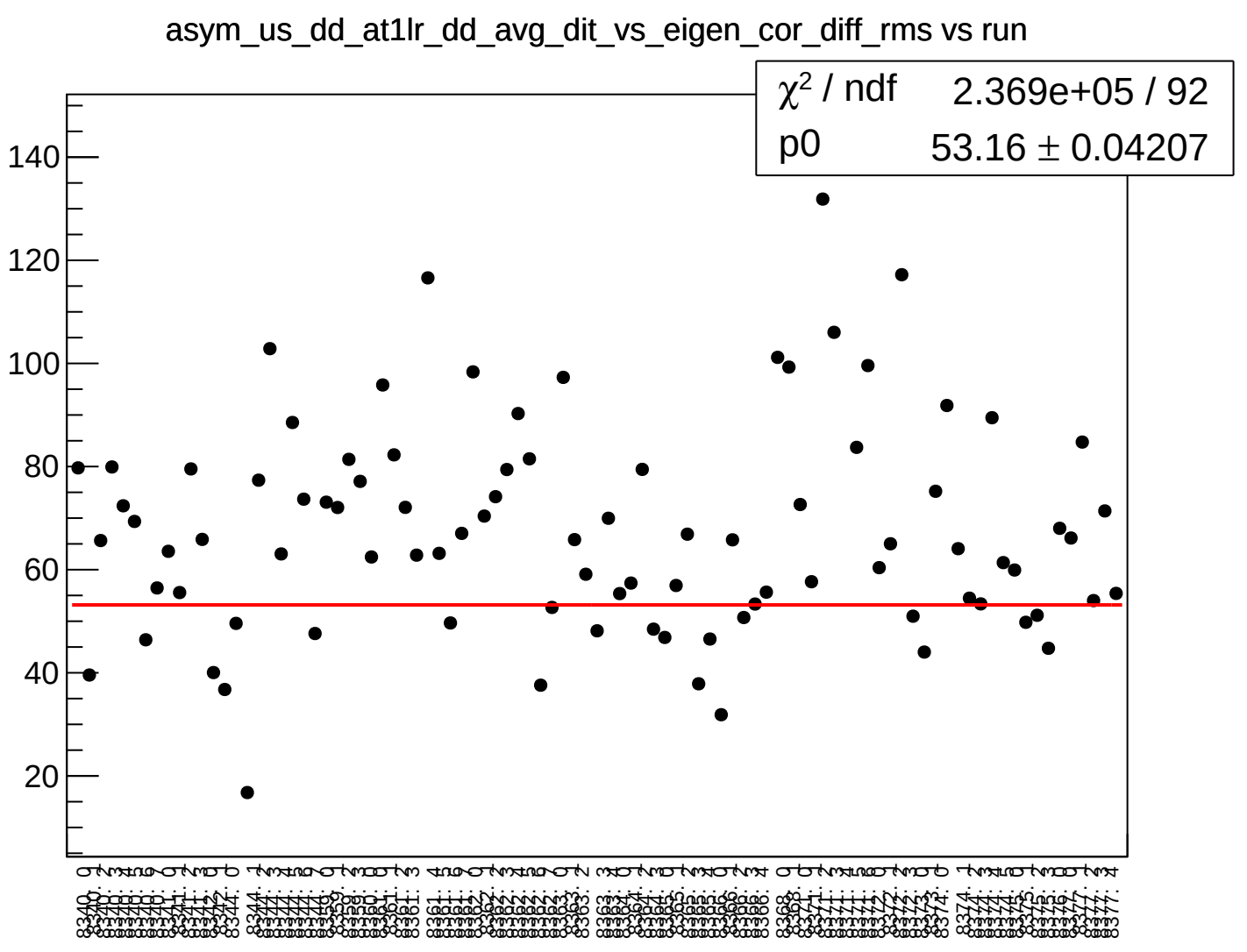

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.369e+05 / 92
p0 53.16 ± 0.04207
140
120
100
80
60
40
20

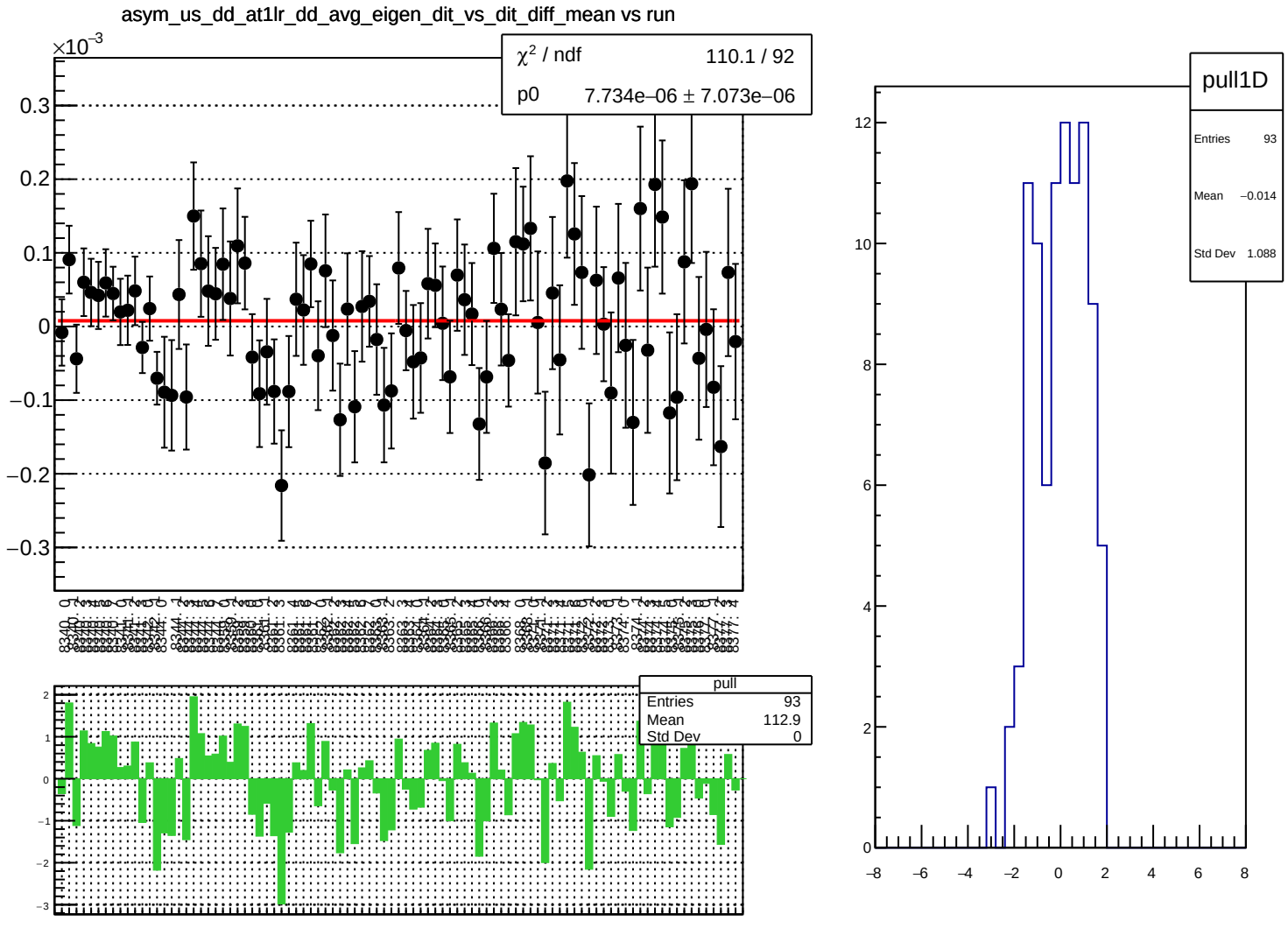
asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

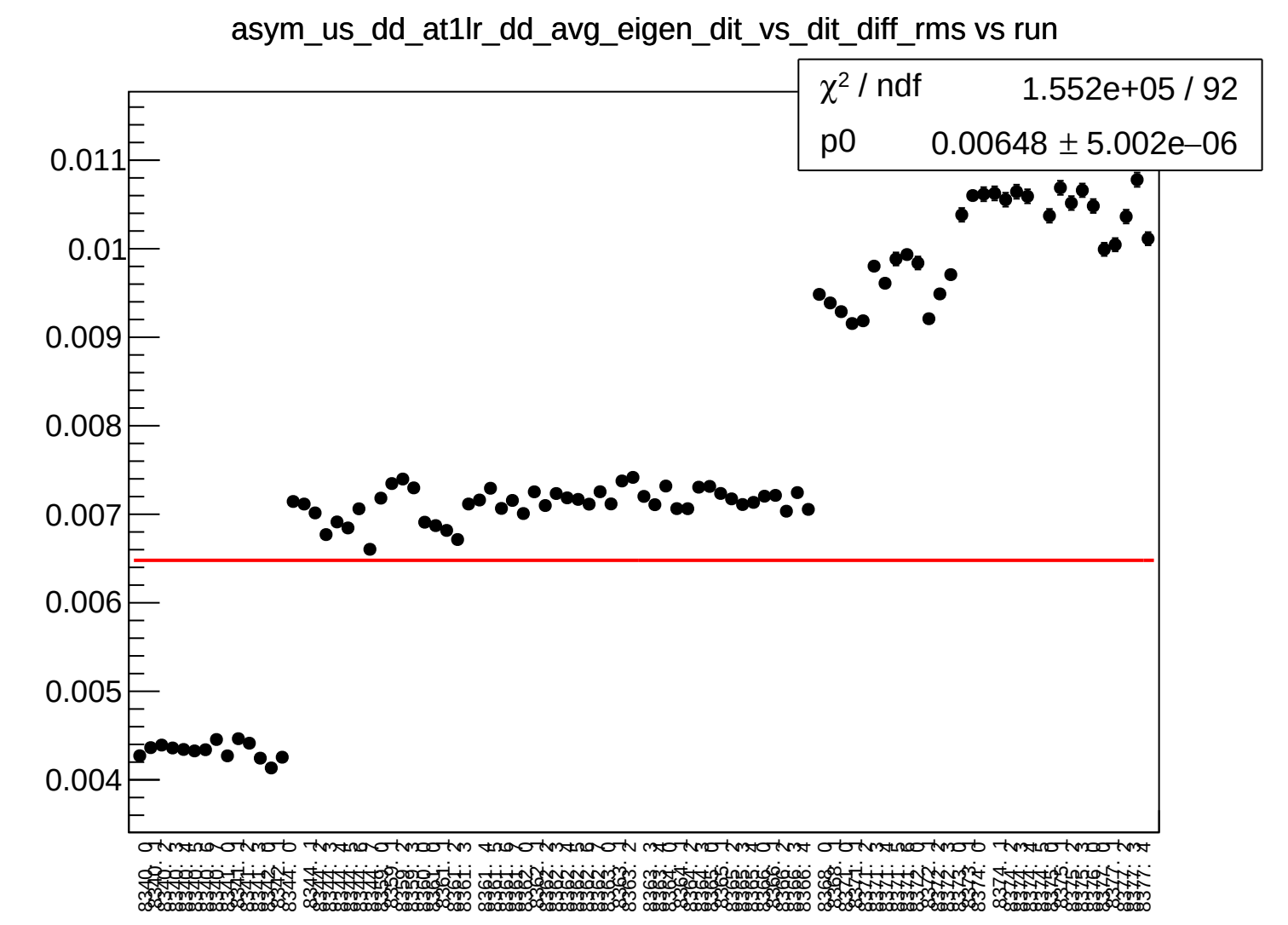




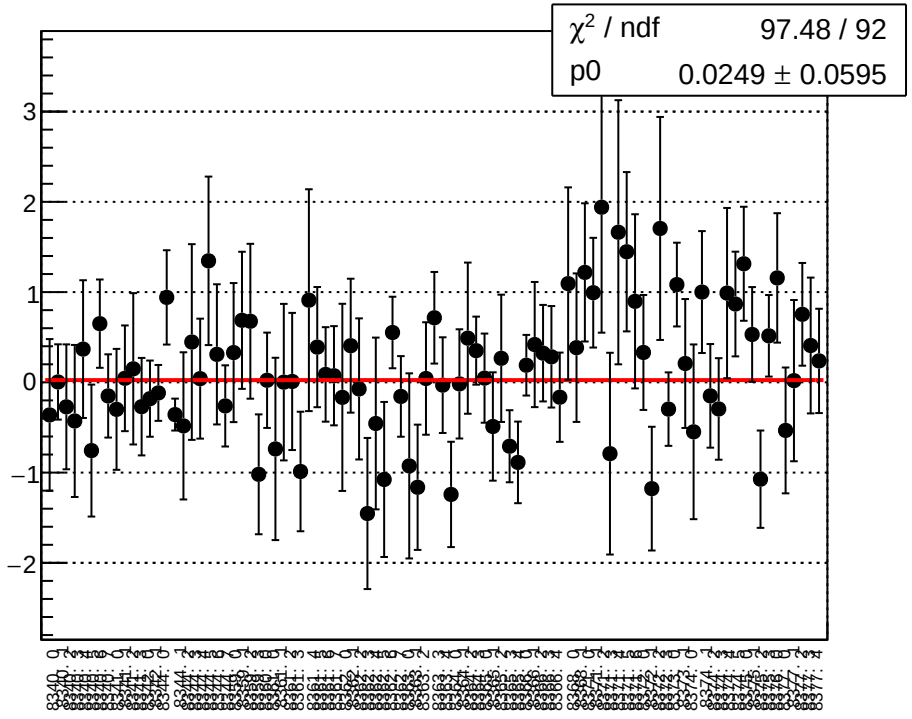


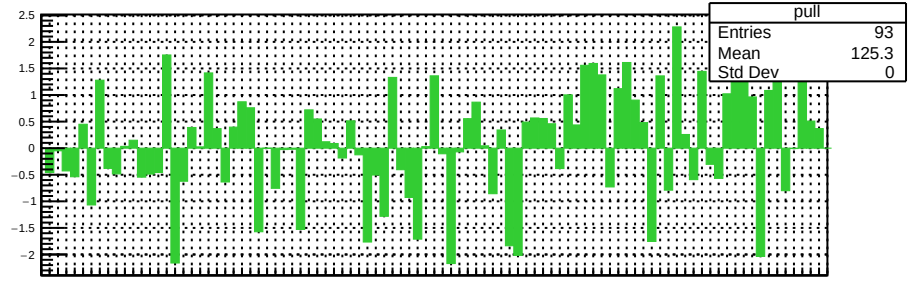

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.369e+05 / 92
p0 53.16 ± 0.04207
140
120
100
80
60
40
20

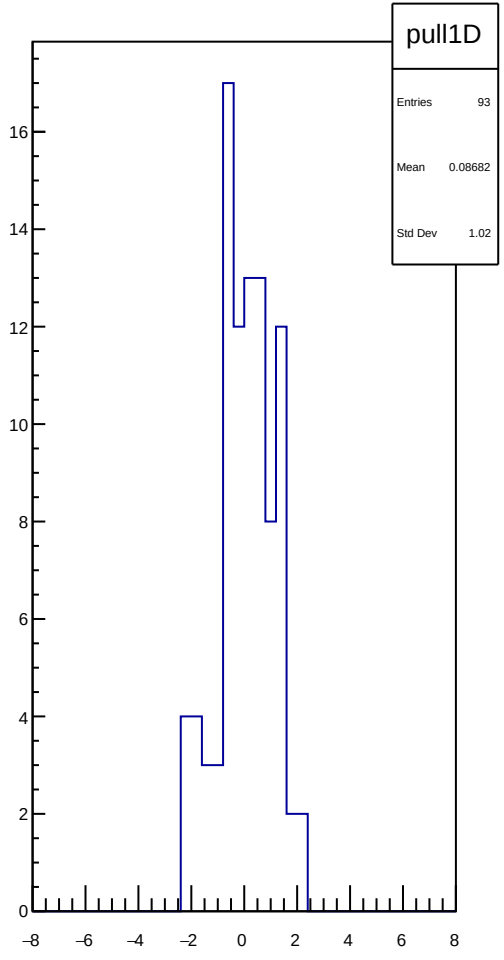

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 110.1 / 92
p0 7.734e−06 ± 7.073e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 93
Mean 112.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.014
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

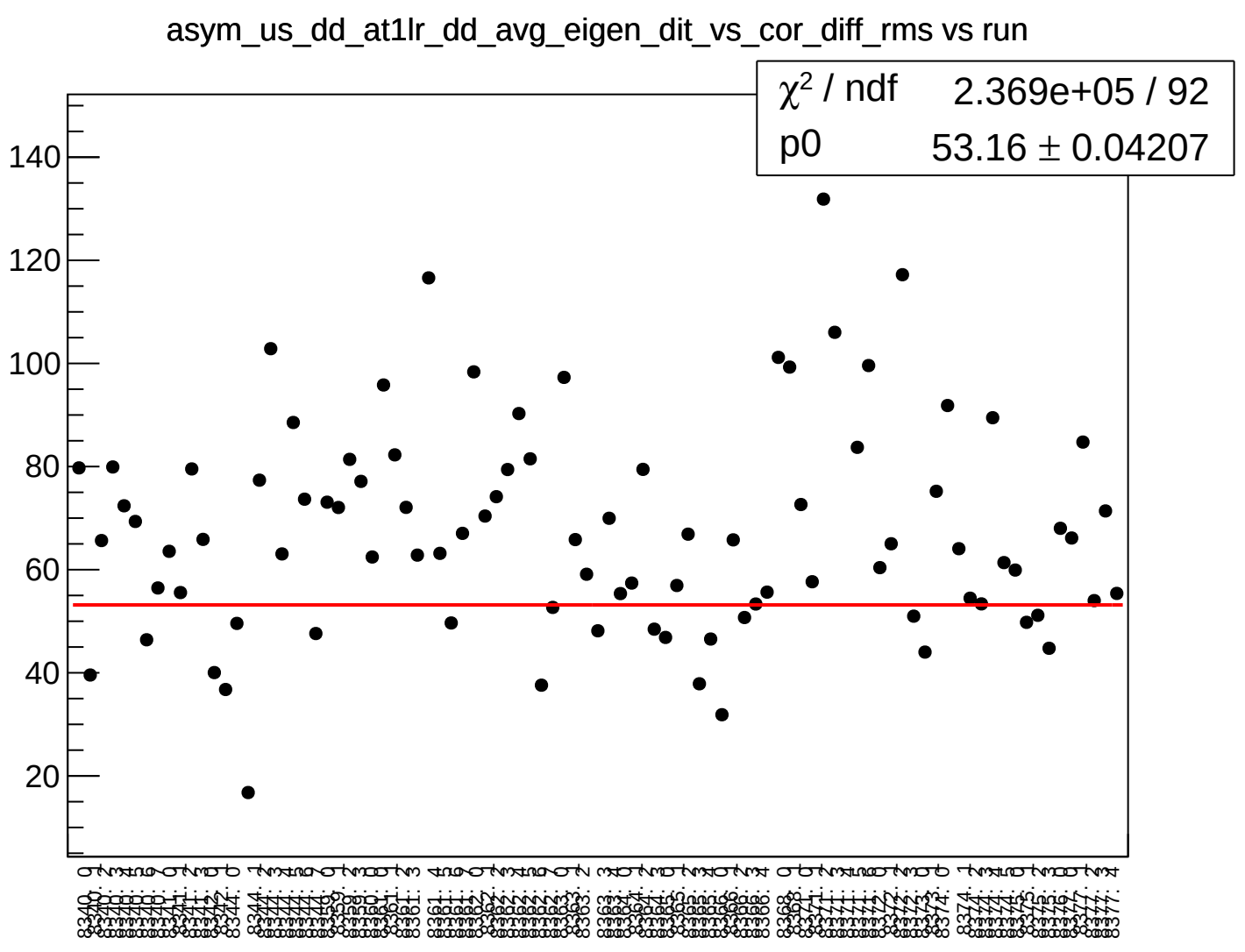

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.552e+05 / 92
p0 0.00648 ± 5.002e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

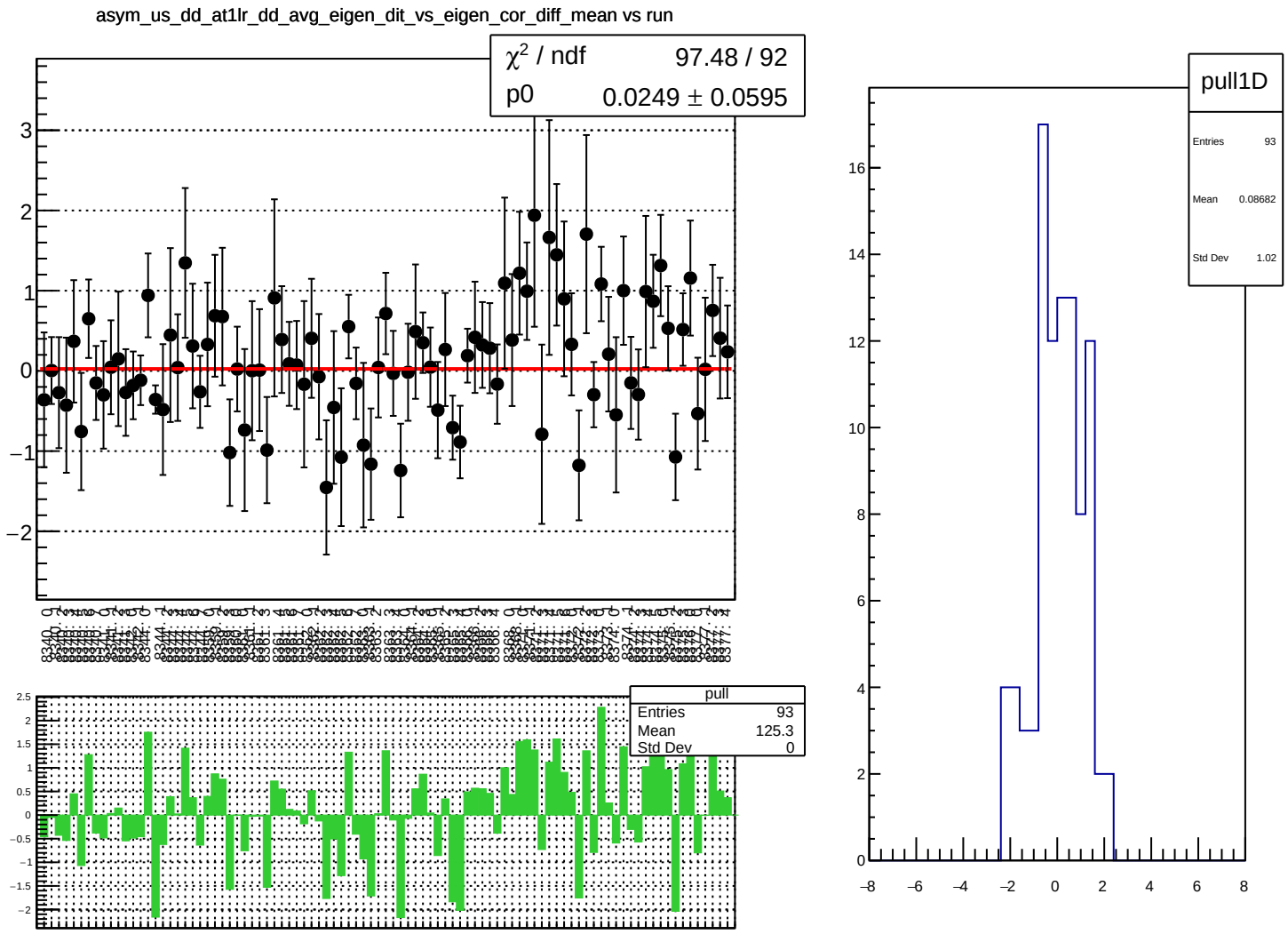
asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

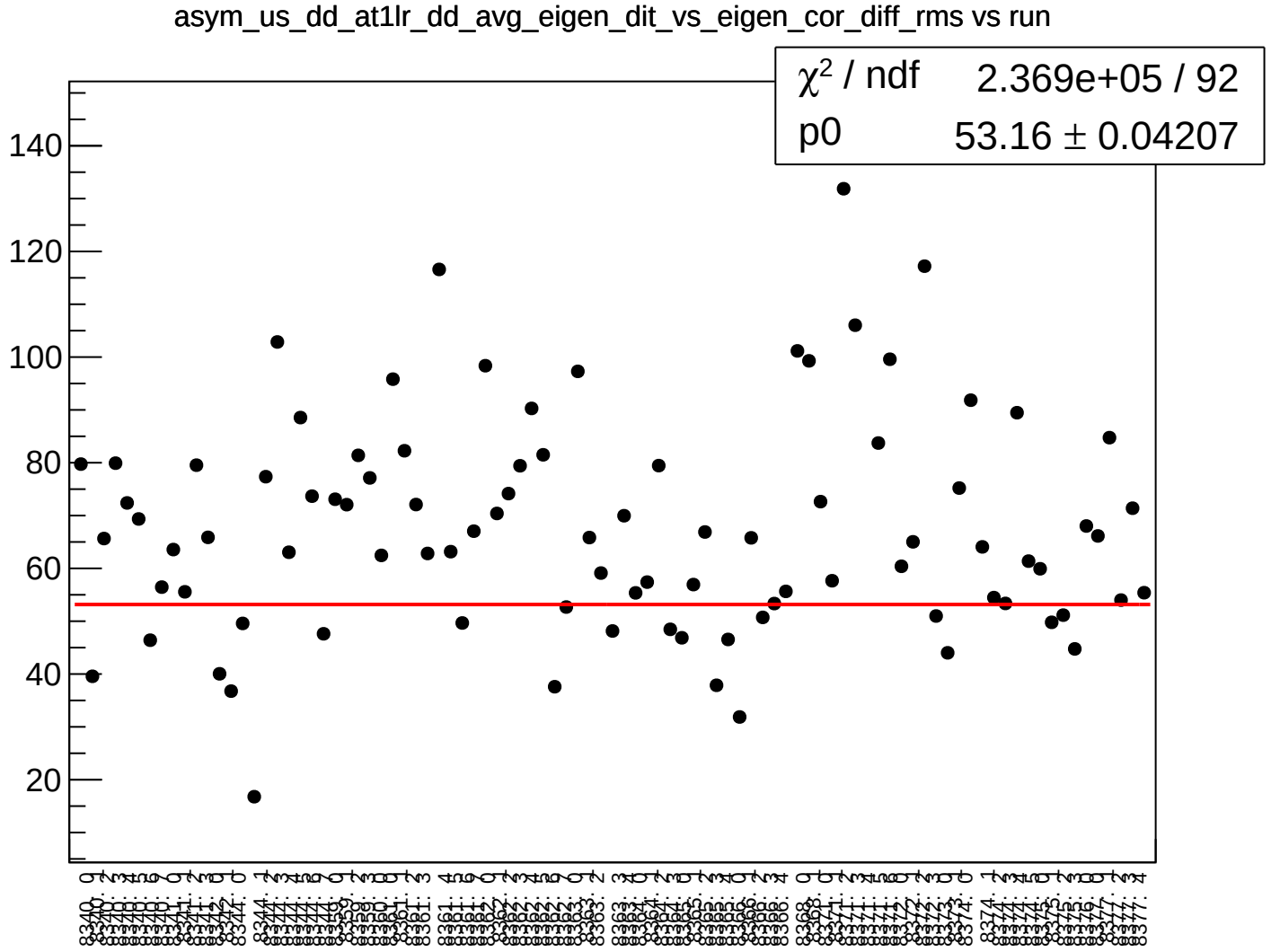


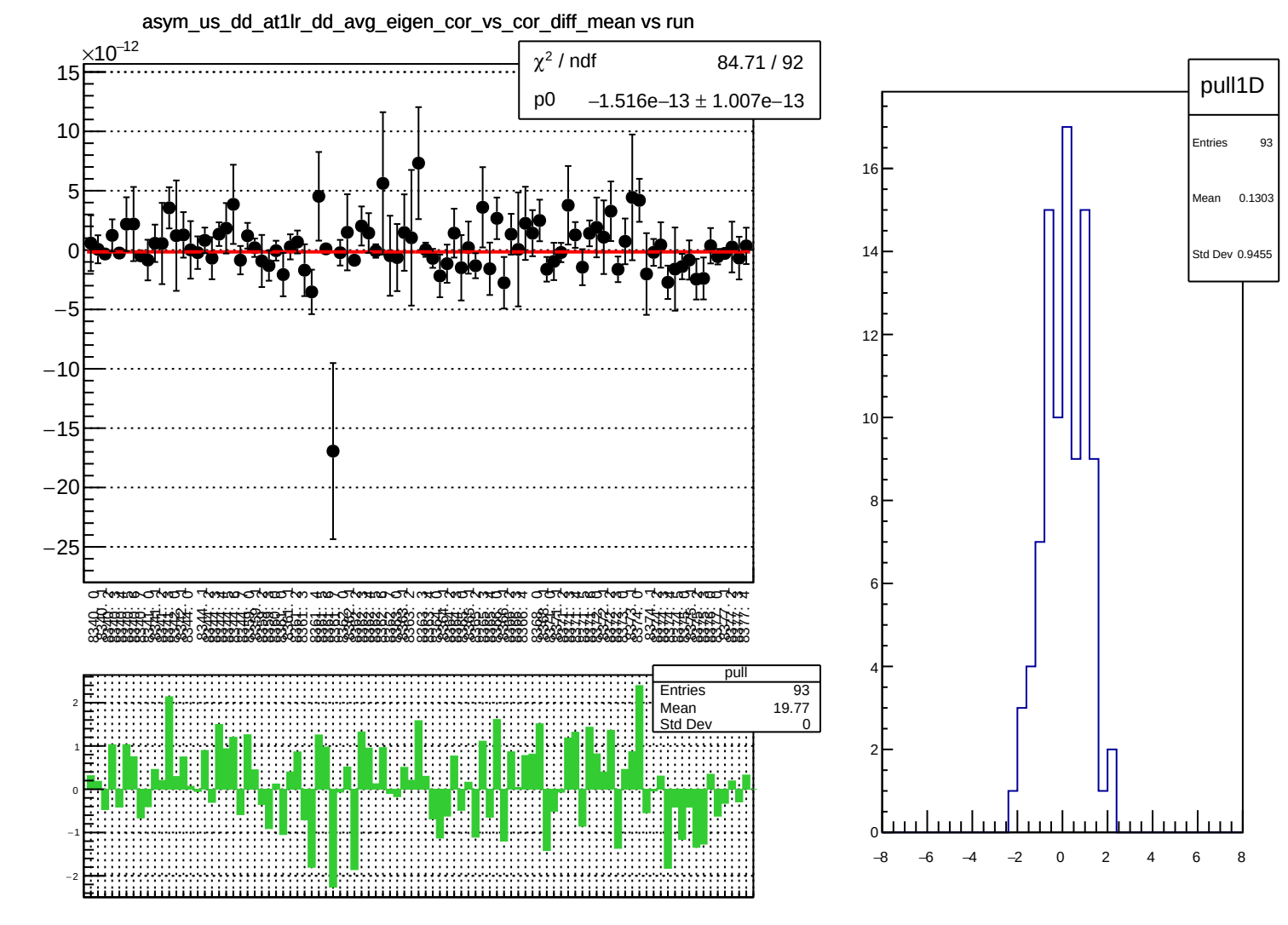


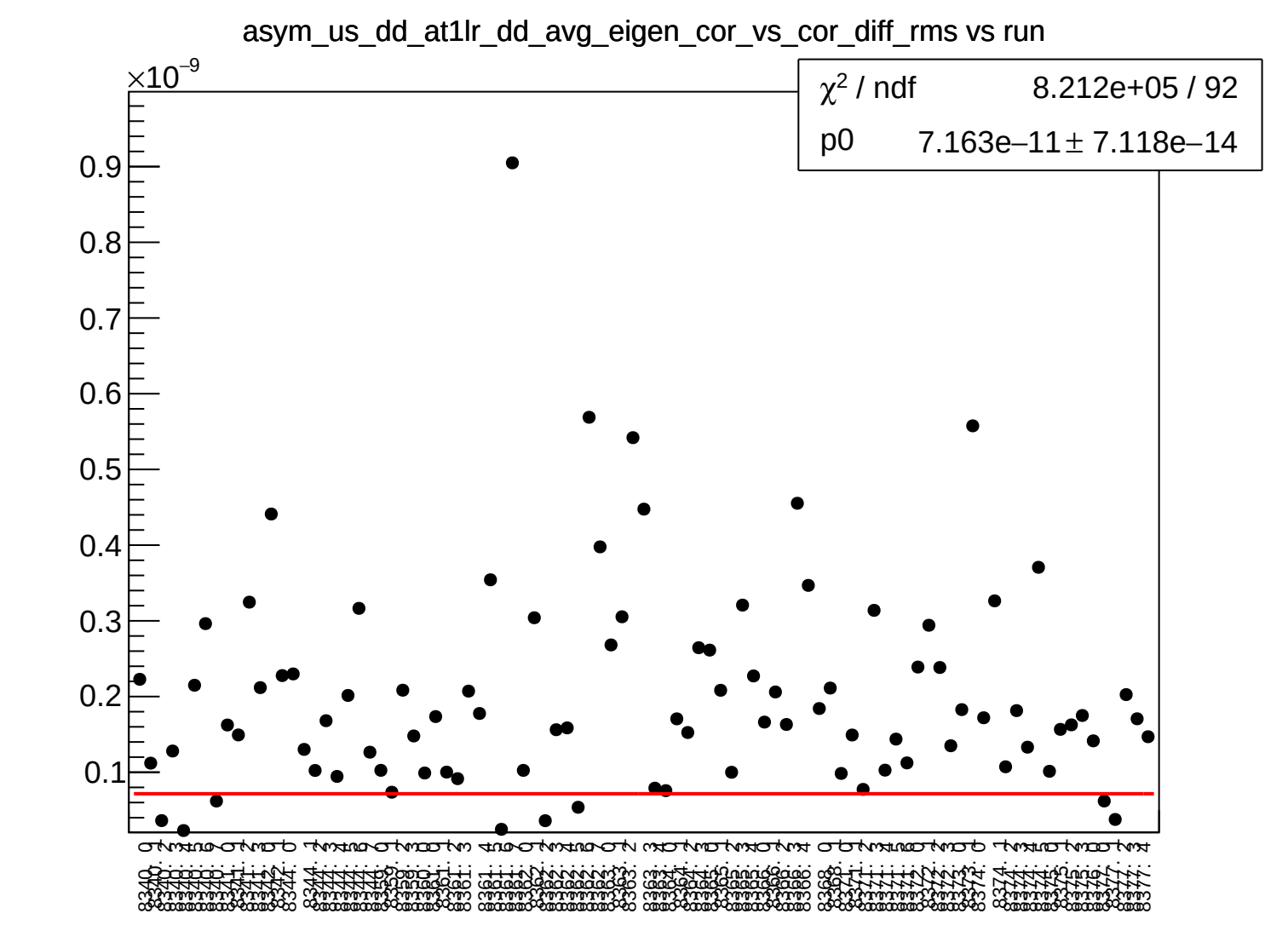


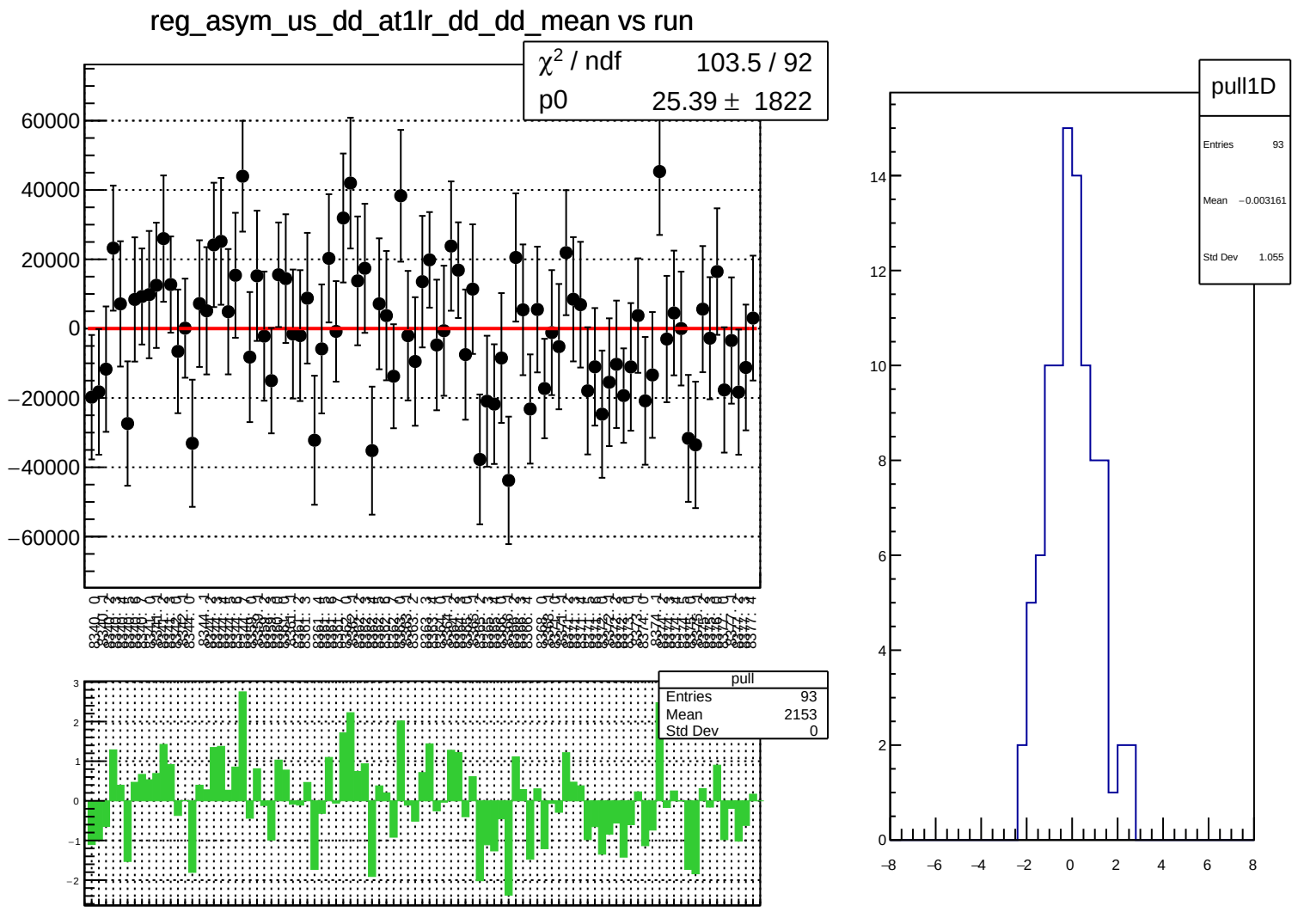

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.369e+05 / 92
p0 53.16 ± 0.04207
140
120
100
80
60
40
20

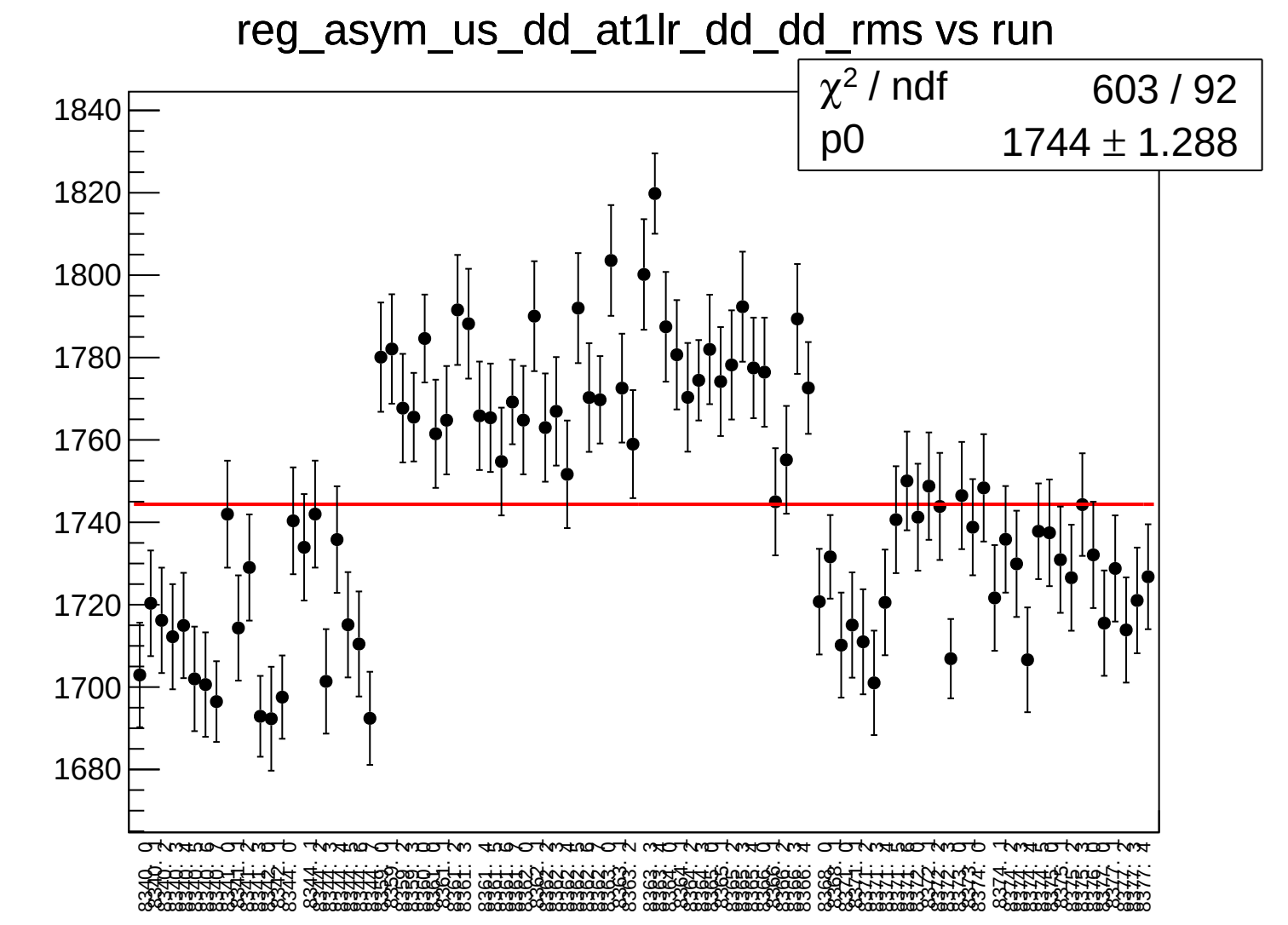

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.48 / 92
p0 0.0249 ± 0.0595
pull
Entries 93
Mean 125.3
Std Dev 0
pull1D
Entries 93
Mean 0.08682
Std Dev 1.02

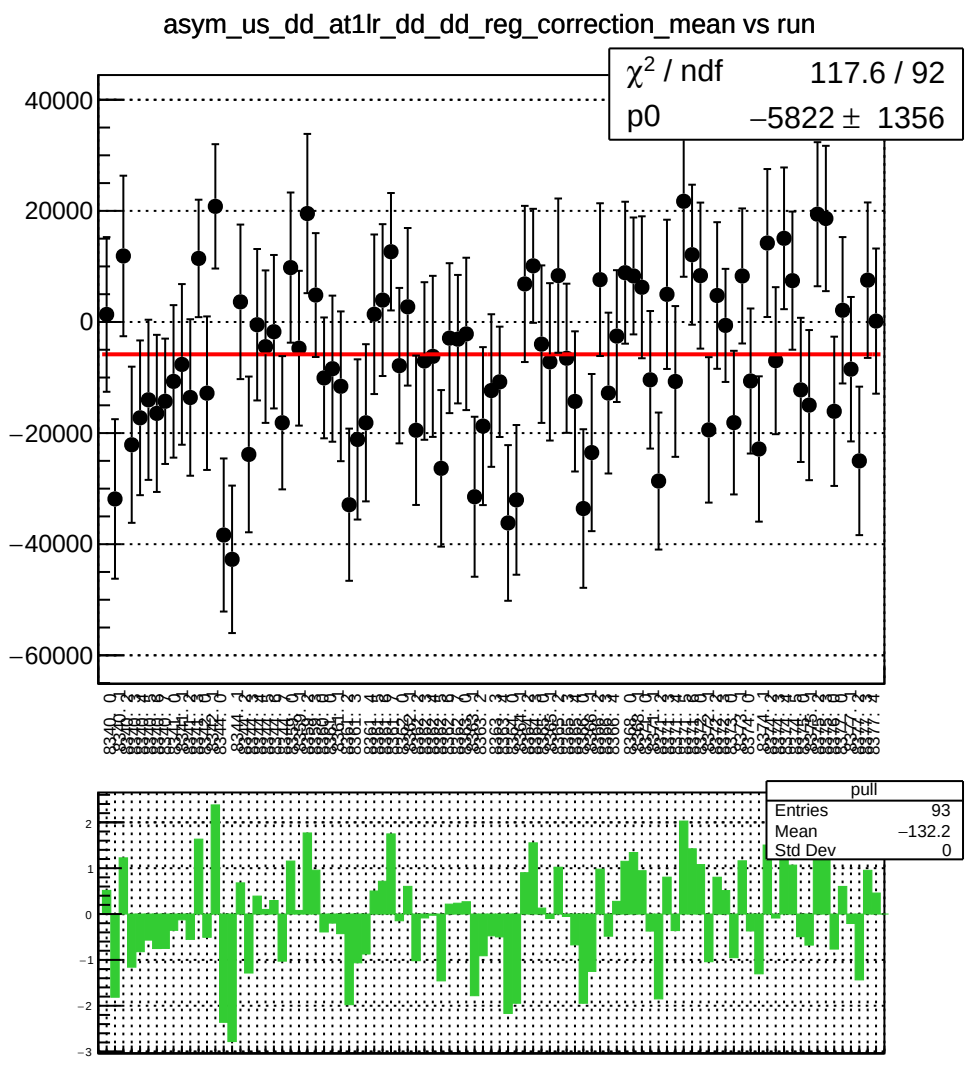

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.369e+05 / 92
p0 53.16 ± 0.04207
140
120
100
80
60
40
20

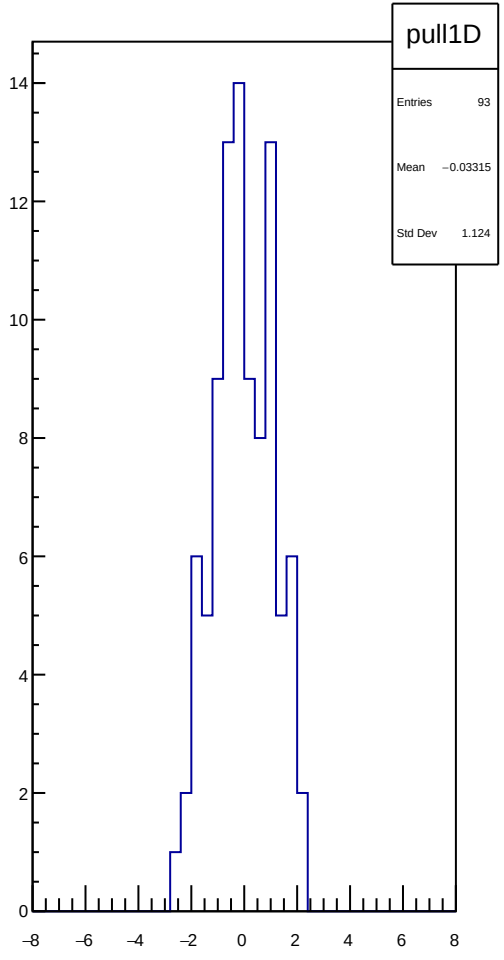

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.71 / 92
p0 −1.516e−13 ± 1.007e−13
pull
Entries 93
Mean 19.77
Std Dev 0
pull1D
Entries 93
Mean 0.1303
Std Dev 0.9455

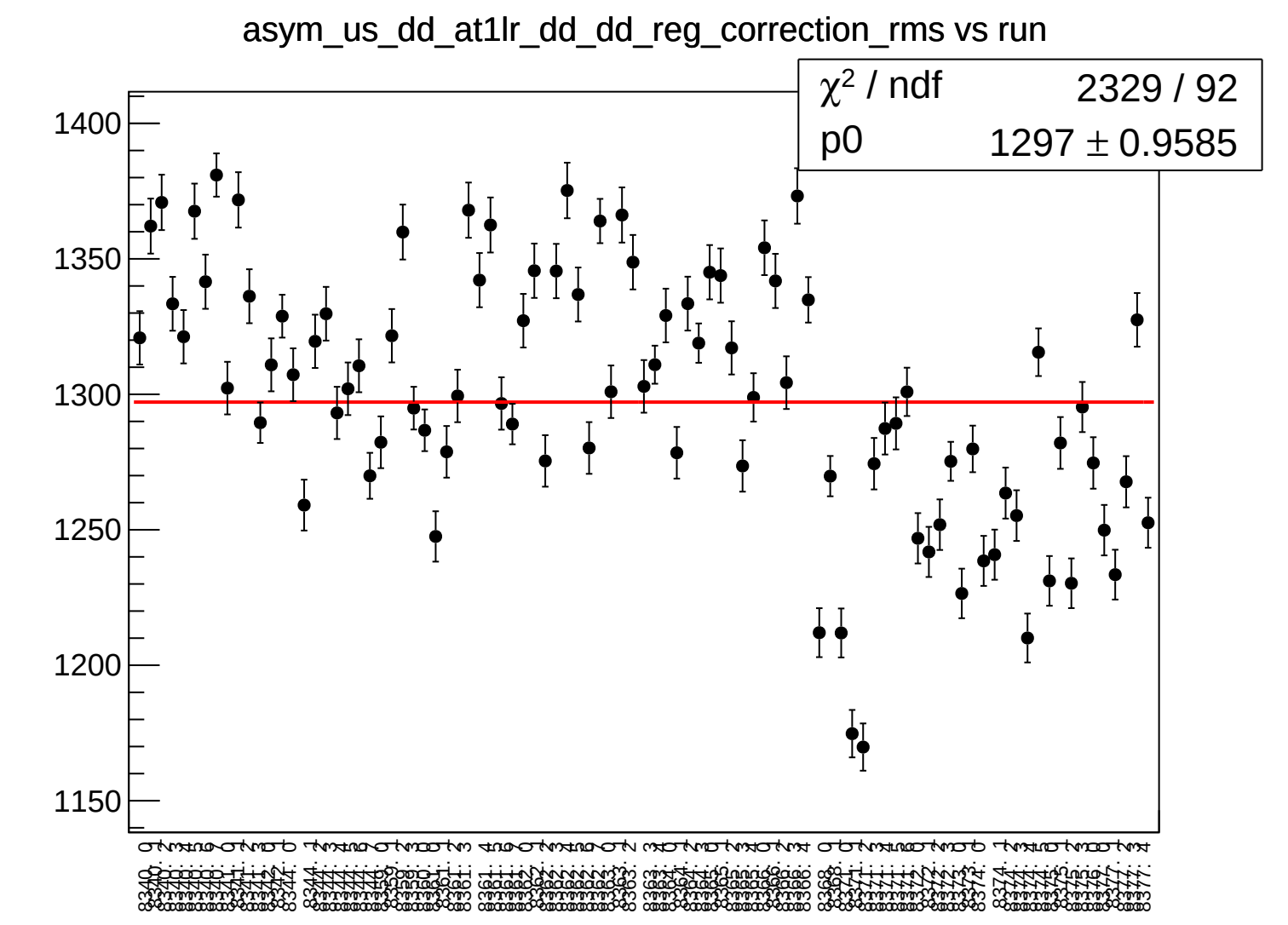

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.212e+05 / 92
p0 7.163e−11 ± 7.118e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

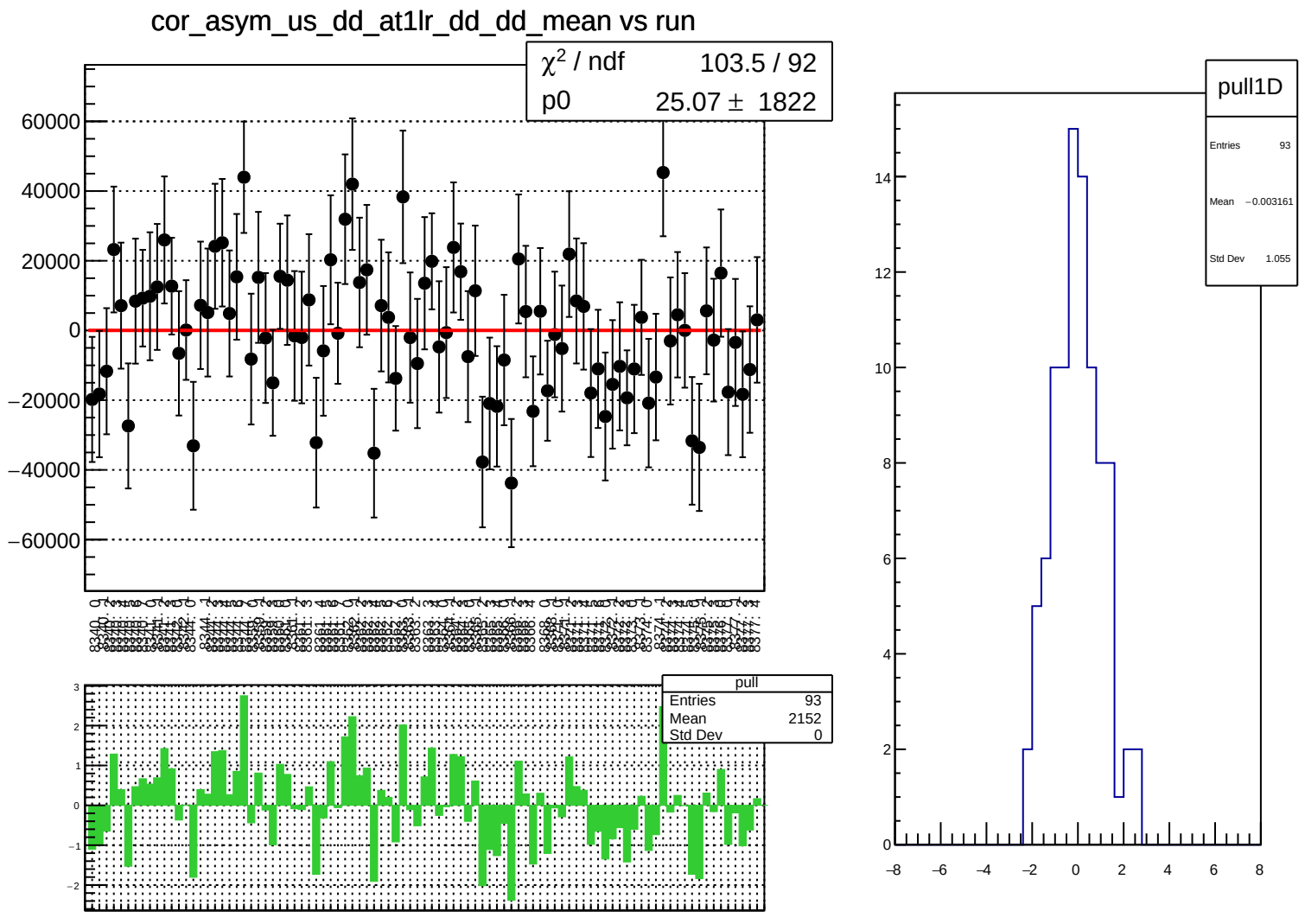

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 25.39 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2153
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003161
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

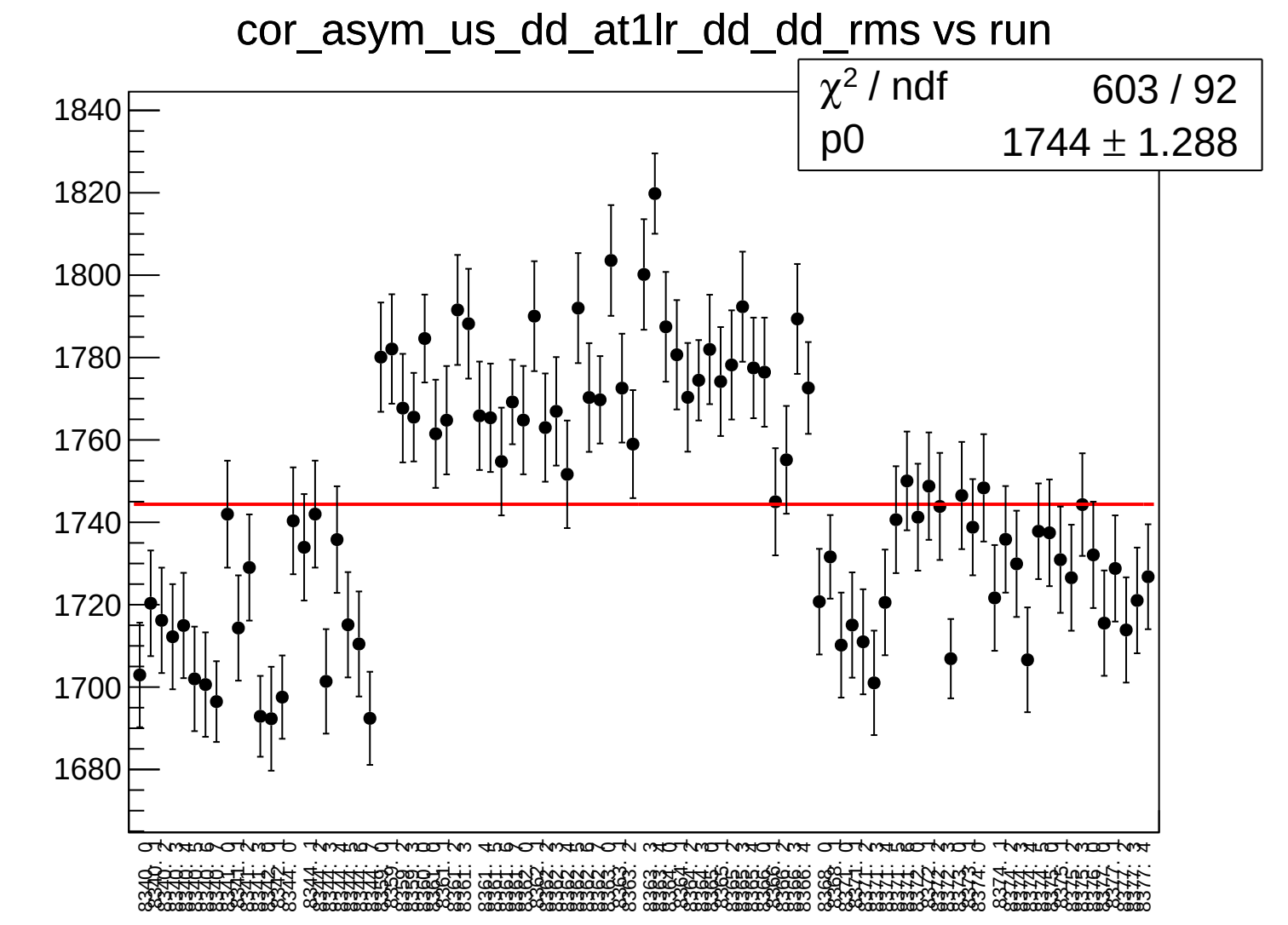

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 603 / 92
p0 1744 ± 1.288
1840
1820
1800
1780
1760
1740
1720
1700
1680

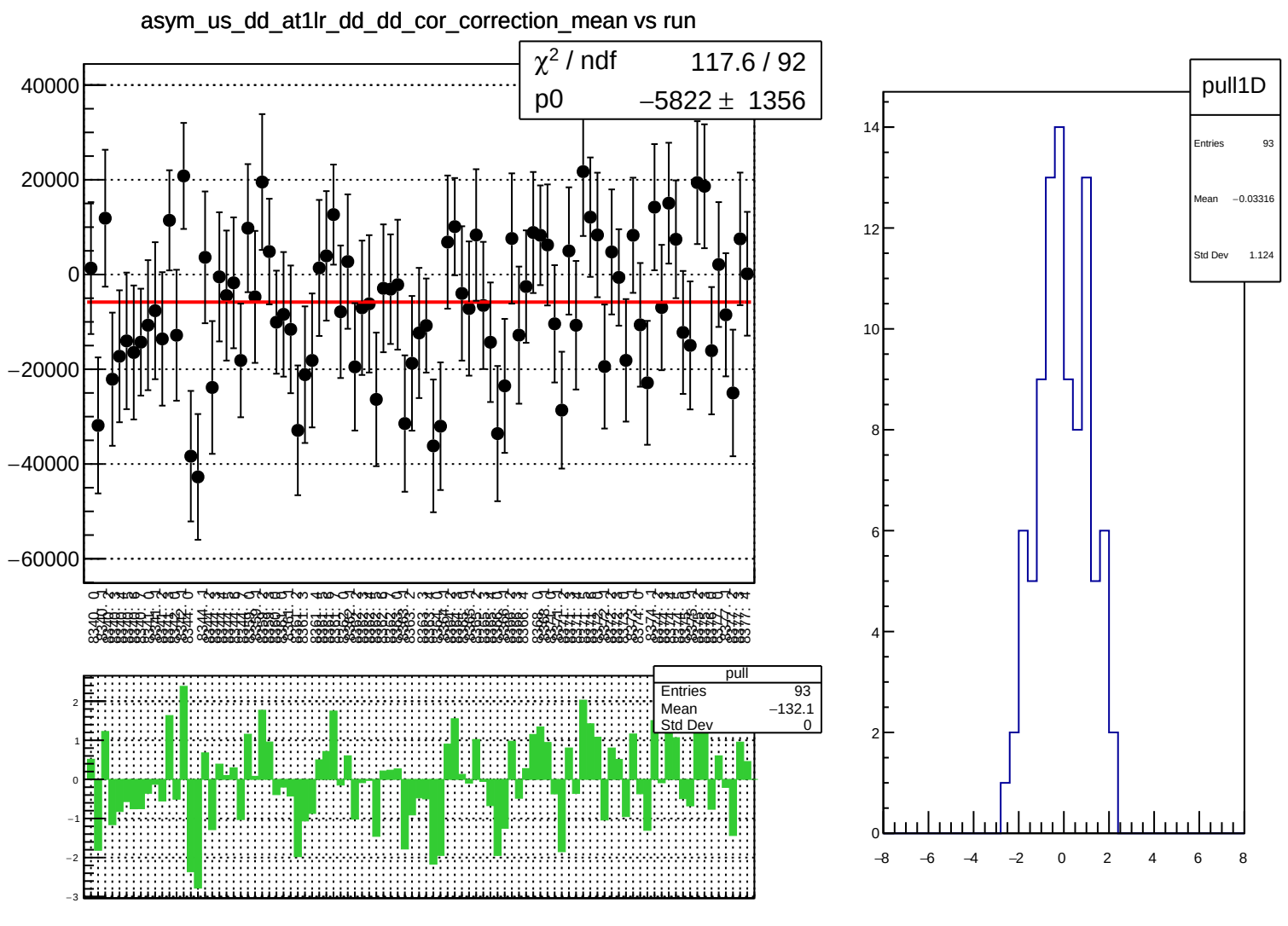

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 117.6 / 92
p0 −5822 ± 1356
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −132.2
Std Dev 0
2
1
0
−1
−2
−3

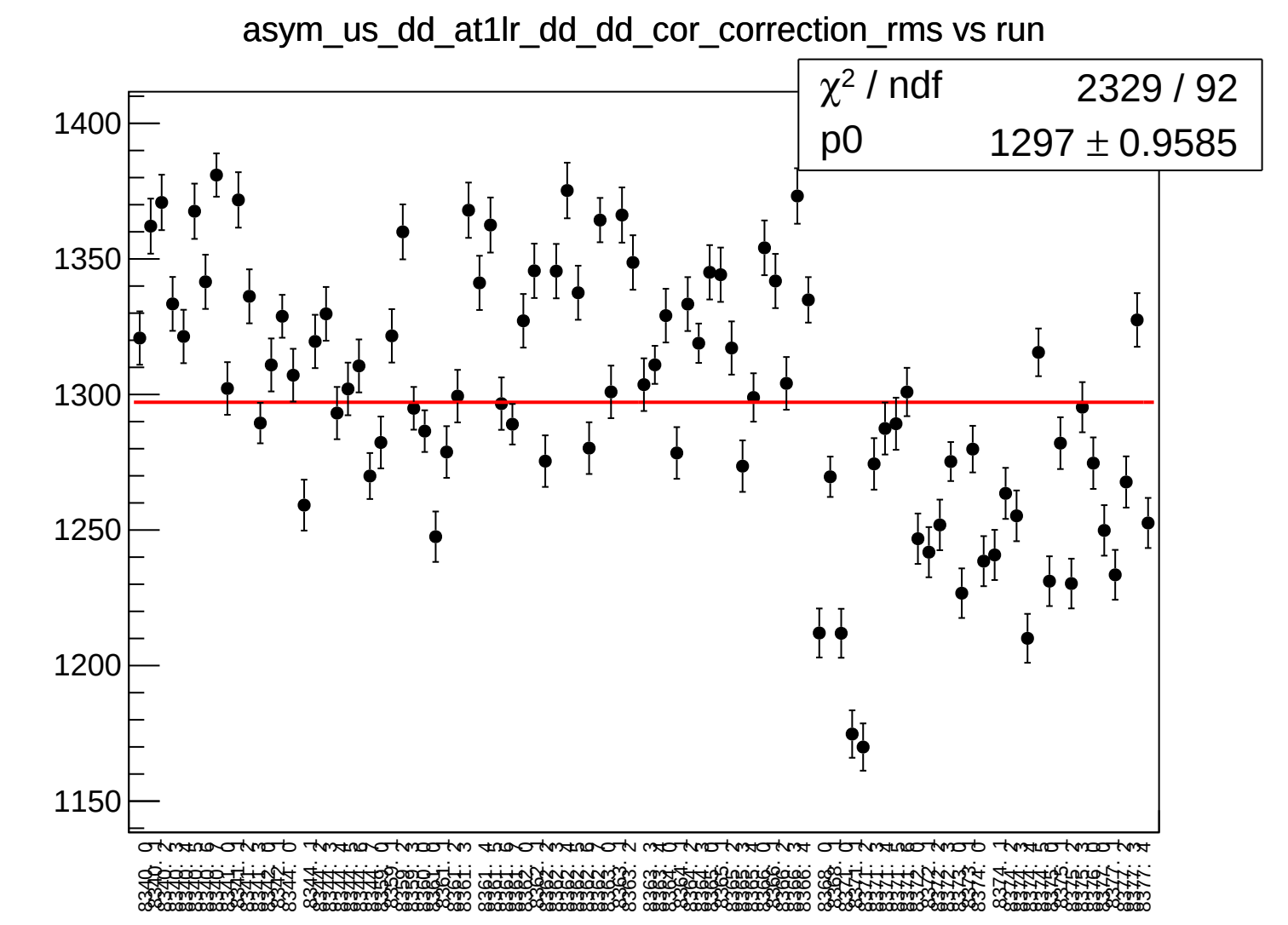

pull1D
Entries 93
Mean −0.03315
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

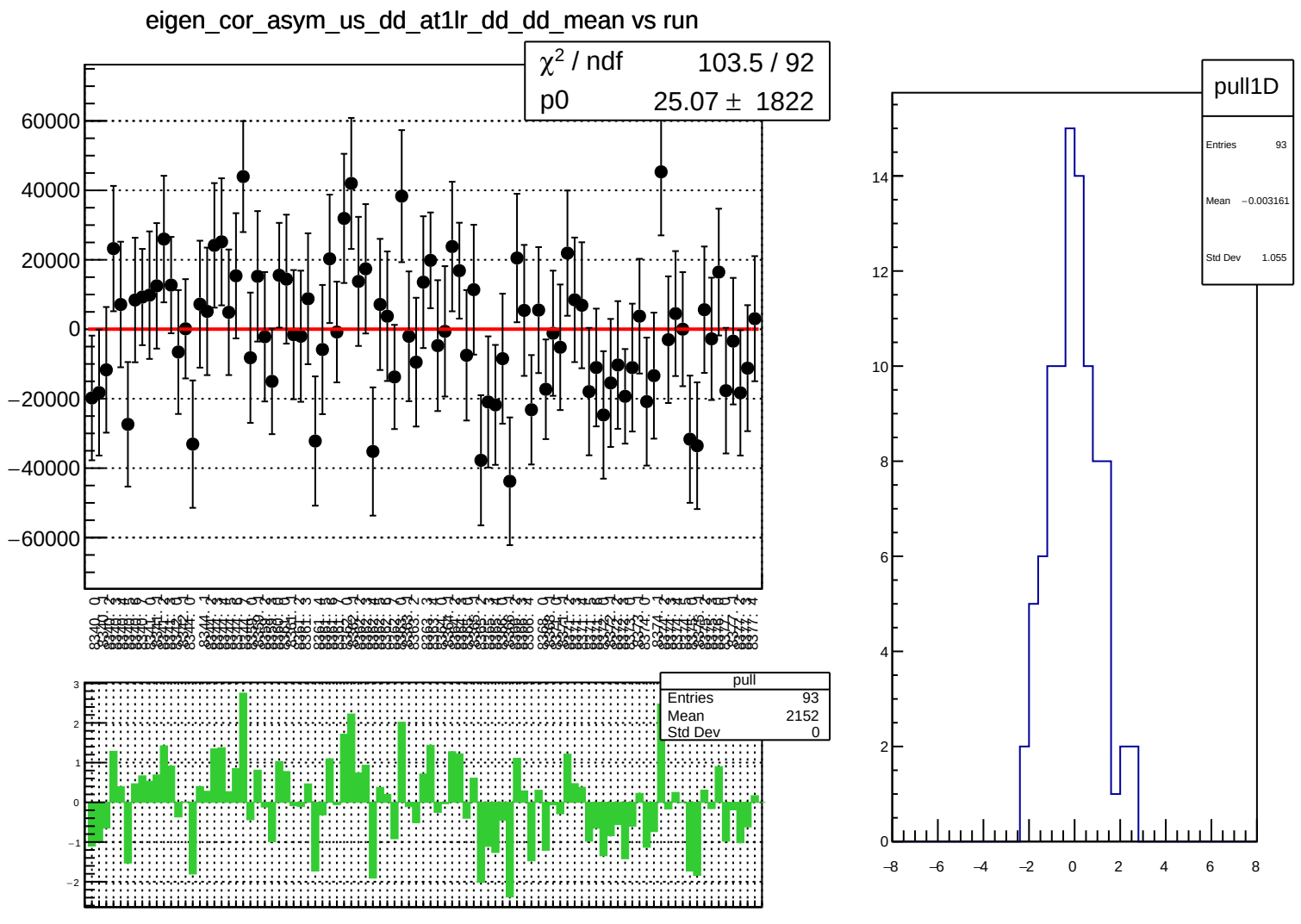

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 2329 / 92
p0 1297 ± 0.9585
1400
1350
1300
1250
1200
1150

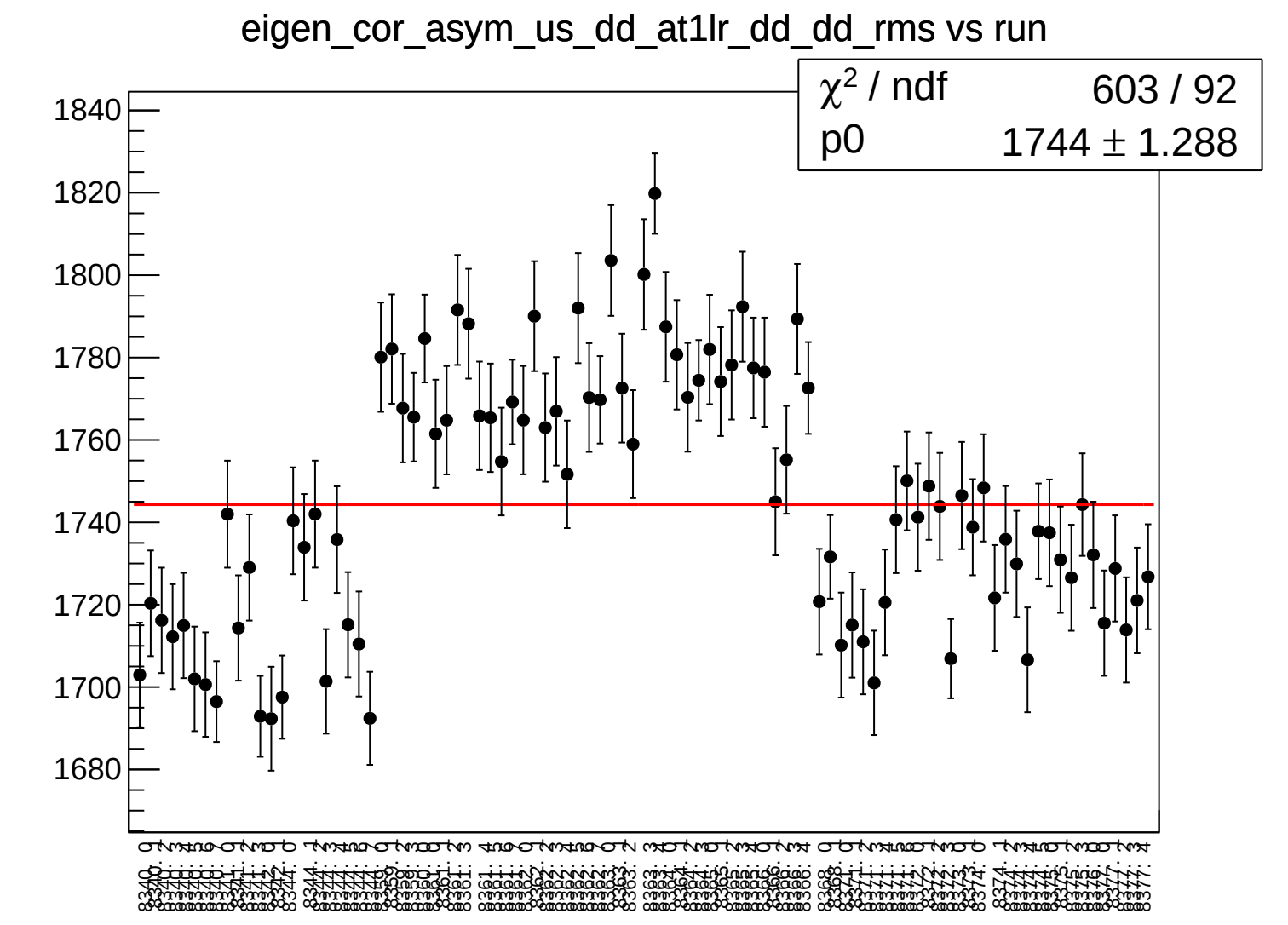

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 25.07 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2152
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003161
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

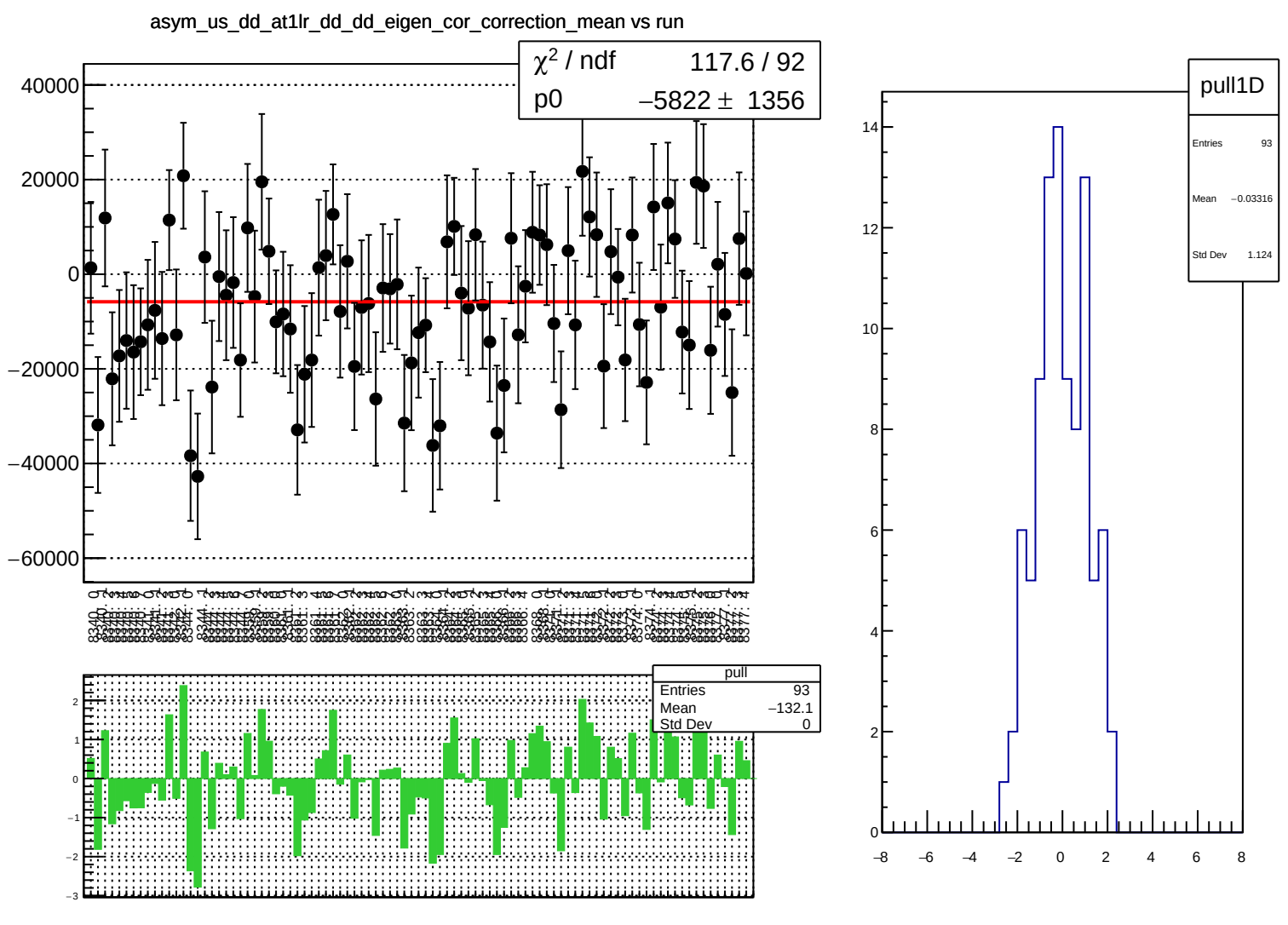

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 603 / 92
p0 1744 ± 1.288
1840
1820
1800
1780
1760
1740
1720
1700
1680

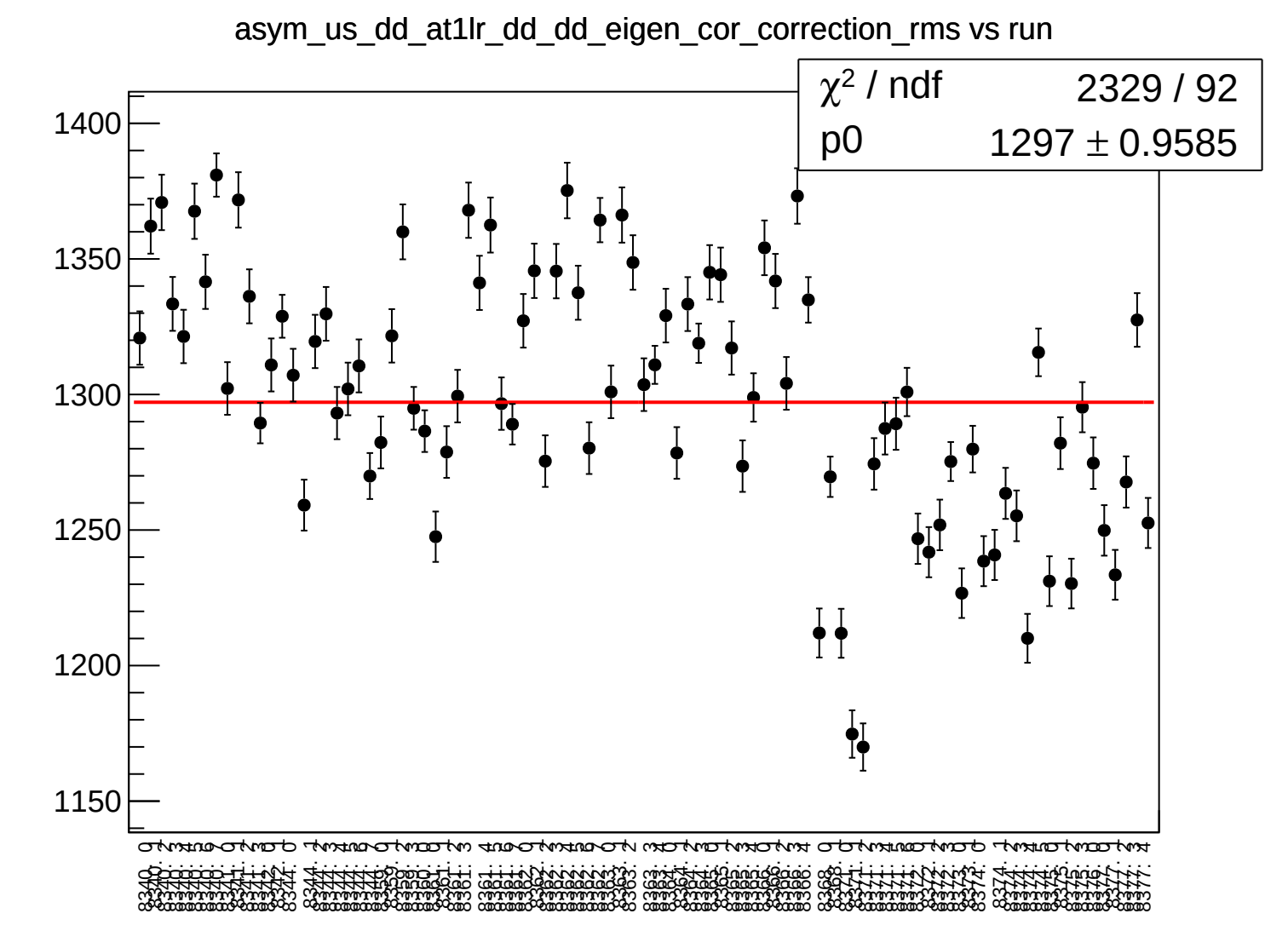

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 −5822 ± 1356
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −132.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.03316
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

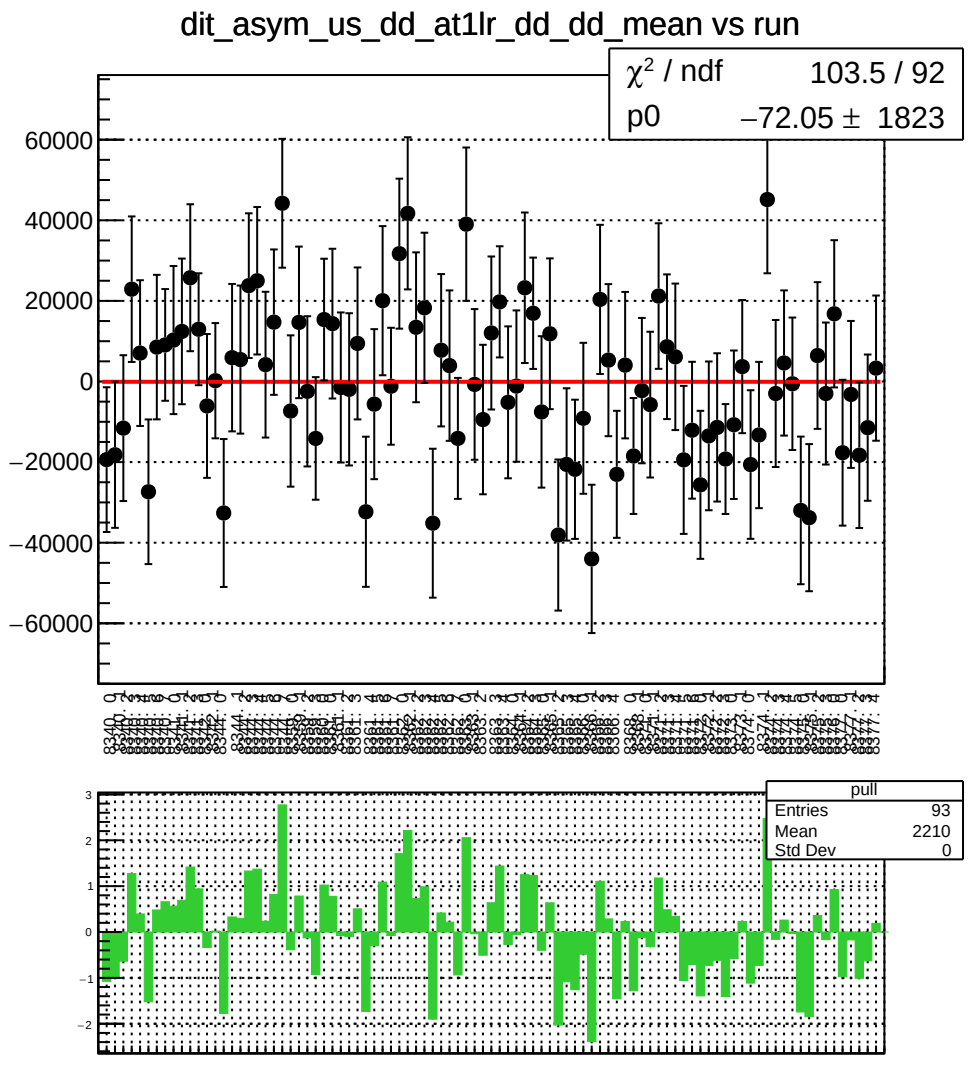

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 2329 / 92
p0 1297 ± 0.9585
1400
1350
1300
1250
1200
1150

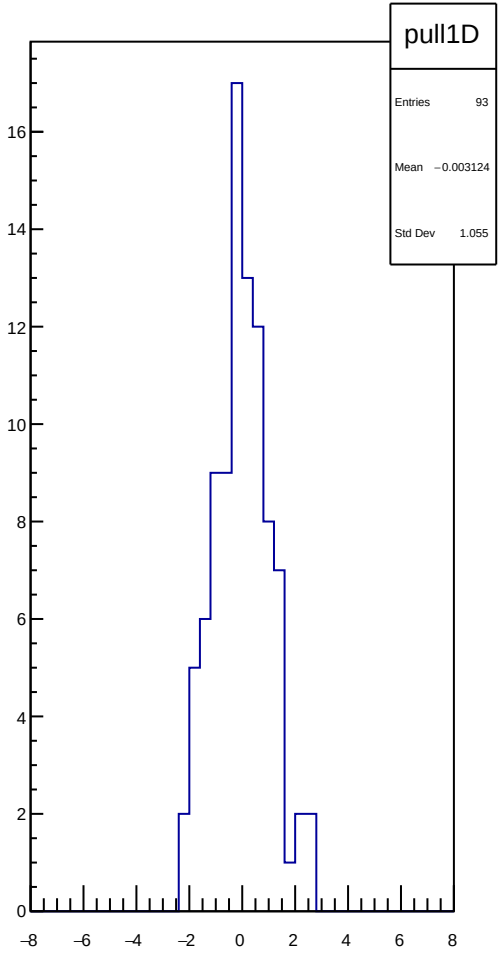

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 25.07 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2152
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003161
Std Dev 1.055
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

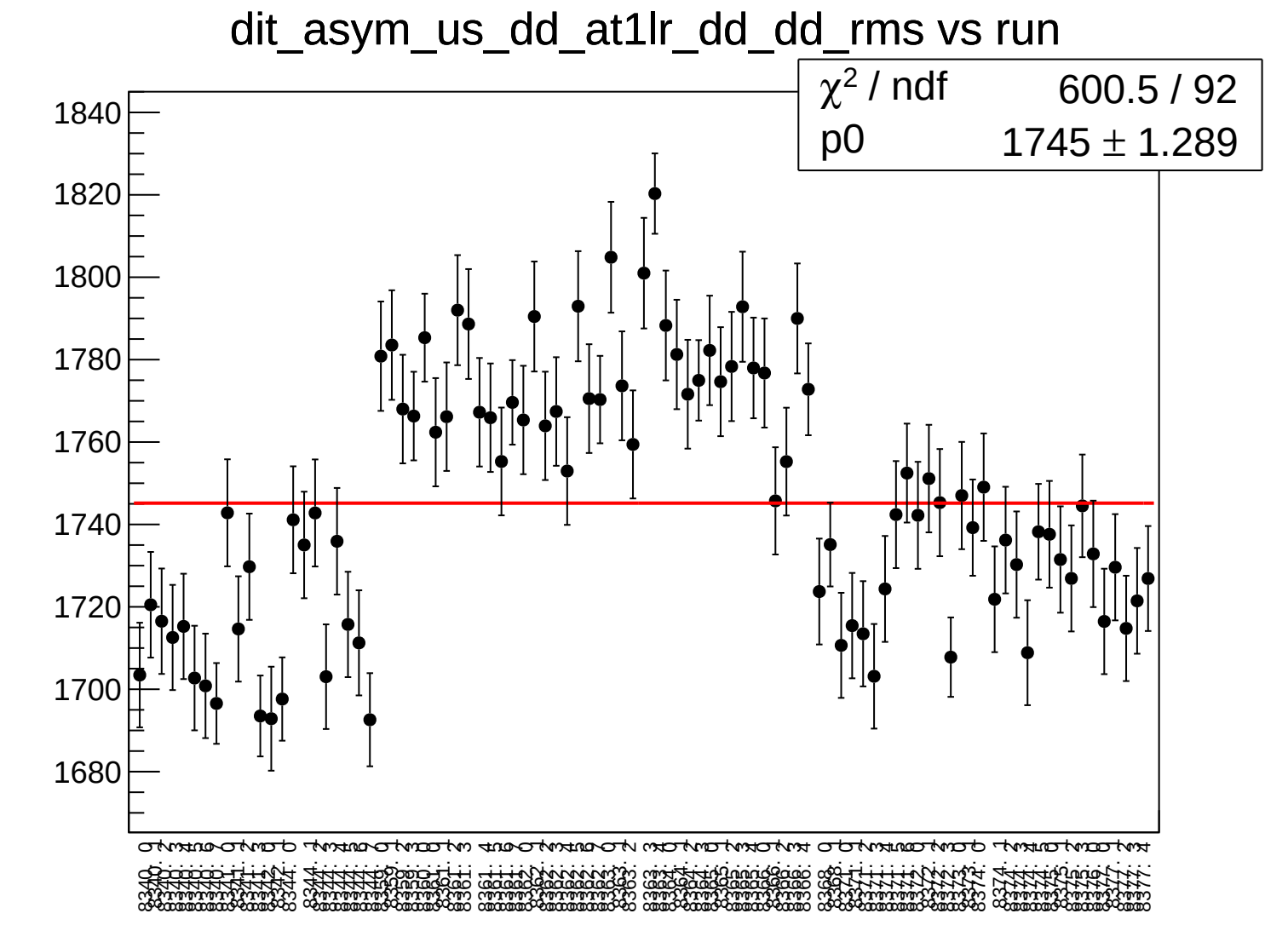

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 603 / 92
p0 1744 ± 1.288
1840
1820
1800
1780
1760
1740
1720
1700
1680

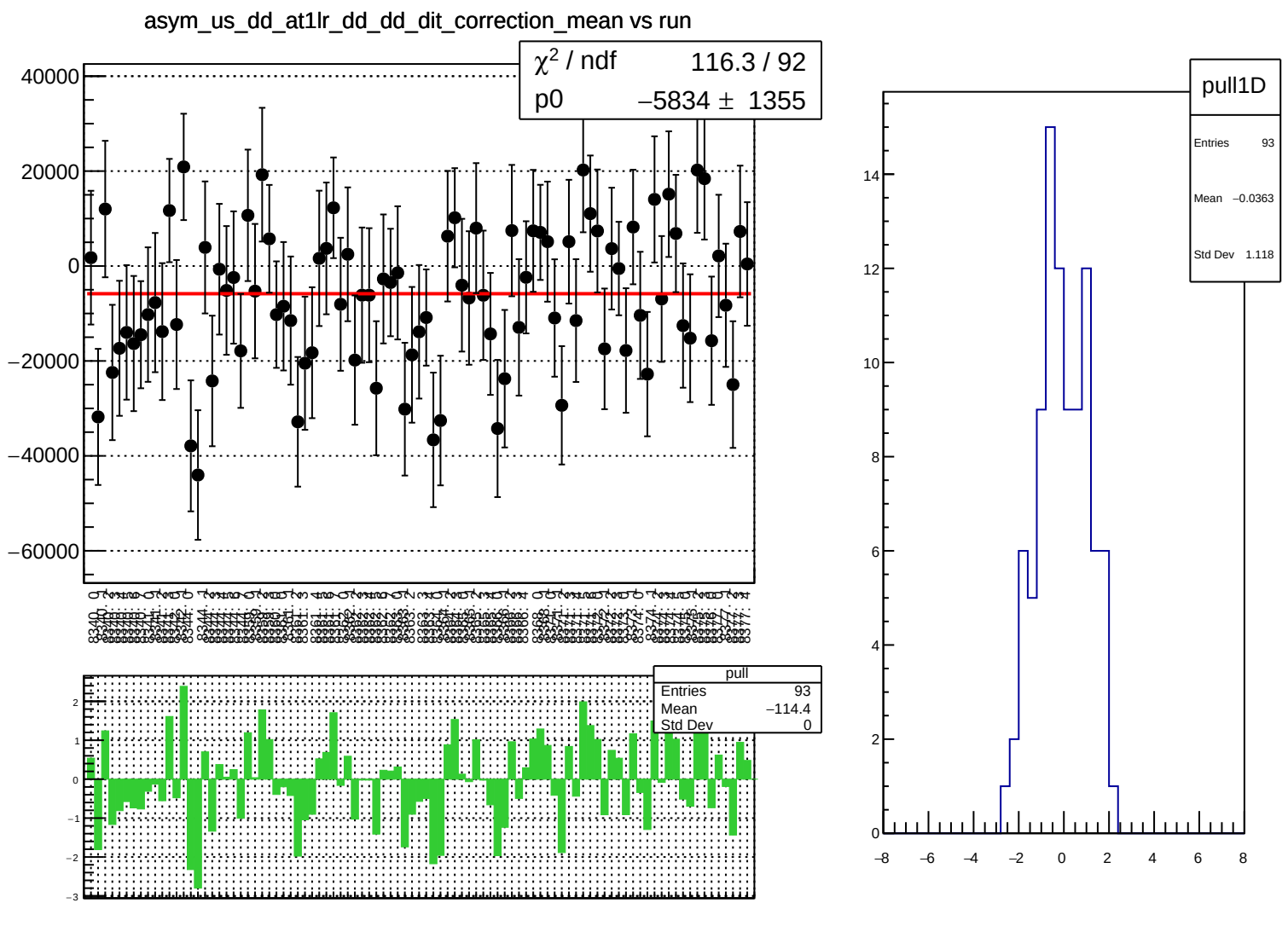

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.6 / 92
p0 −5822 ± 1356
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −132.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.03316
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

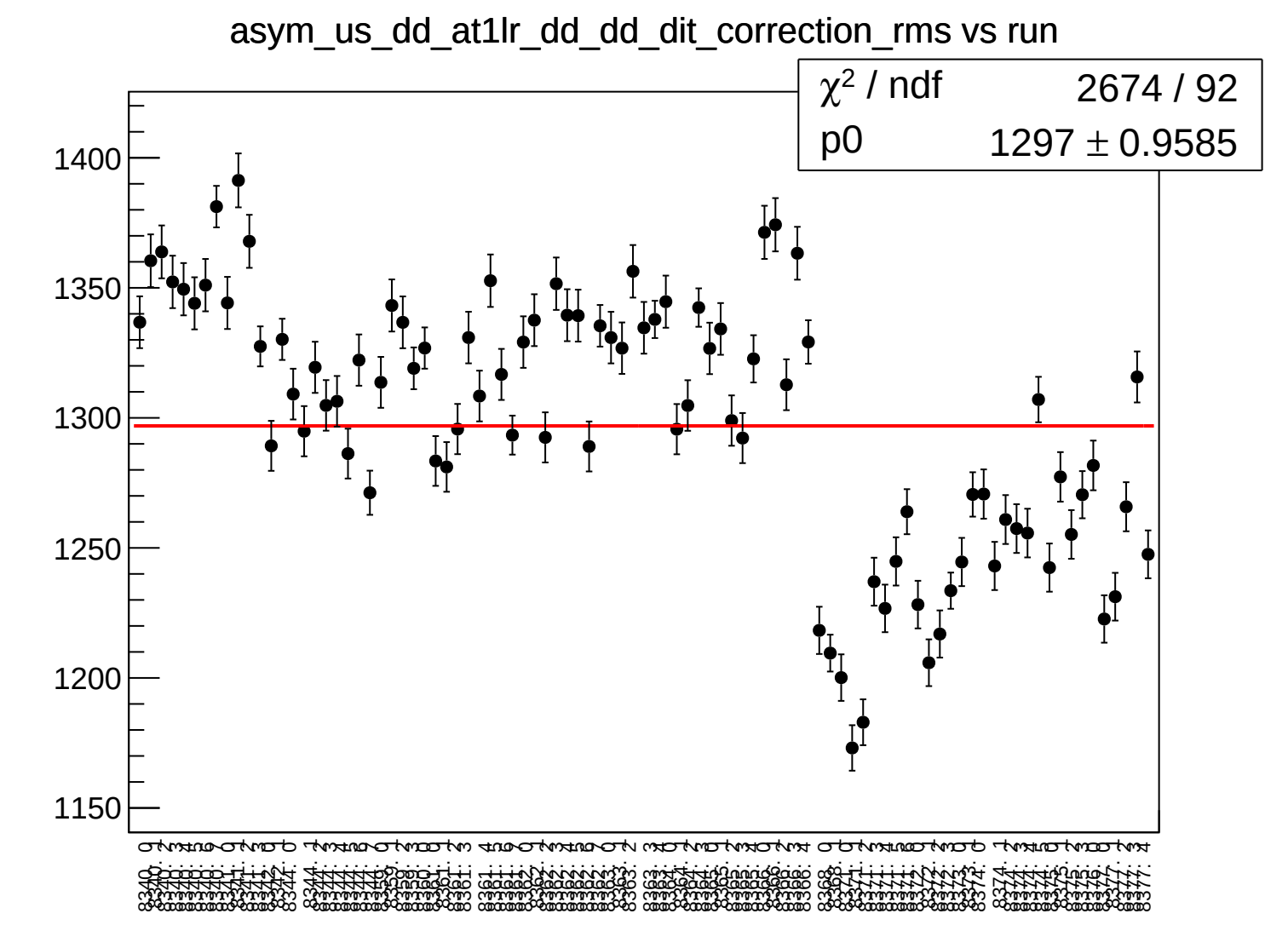

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 2329 / 92
p0 1297 ± 0.9585
1400
1350
1300
1250
1200
1150

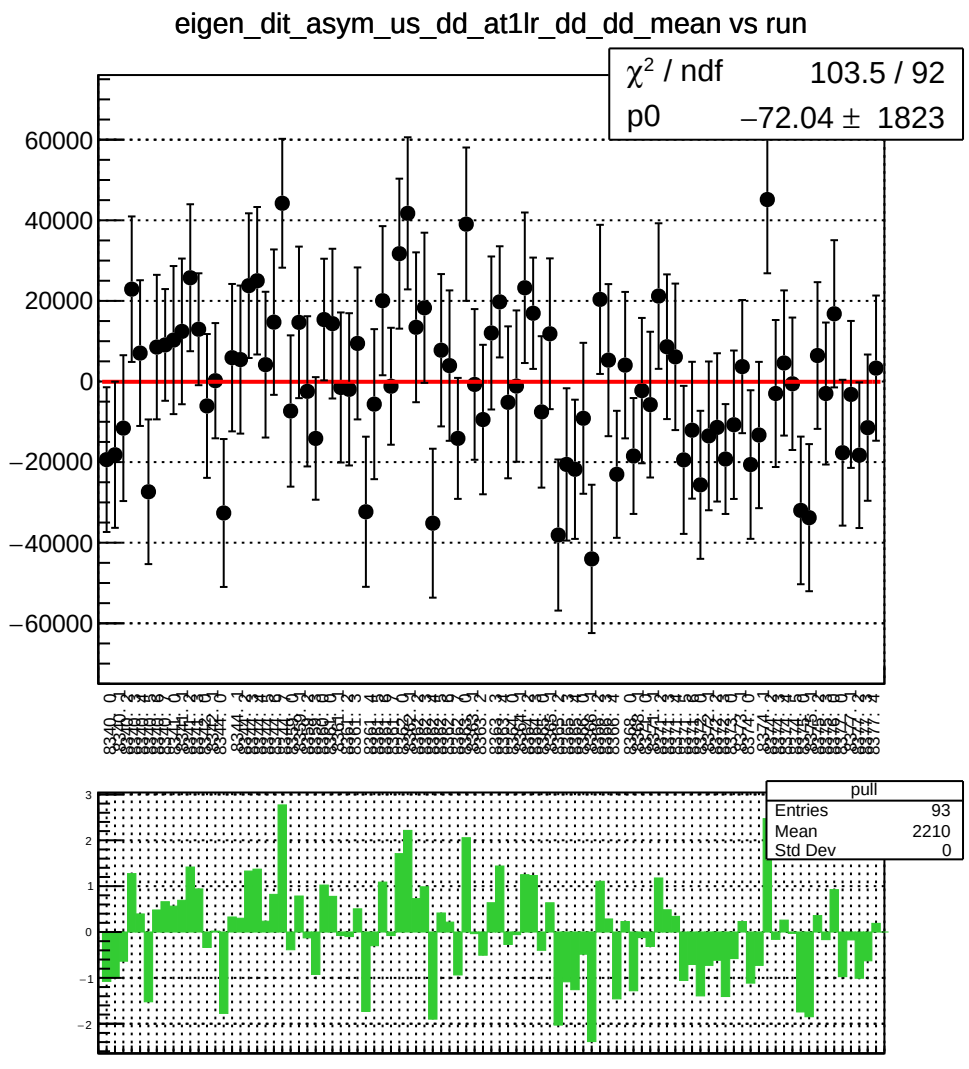

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 −72.05 ± 1823
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2210
Std Dev 0
3
2
1
0
−1
−2

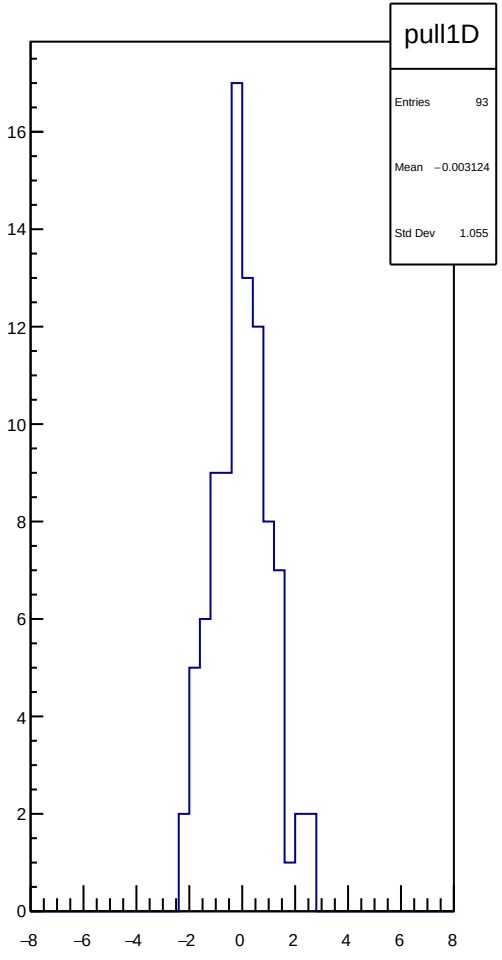

pull1D
Entries 93
Mean −0.003124
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

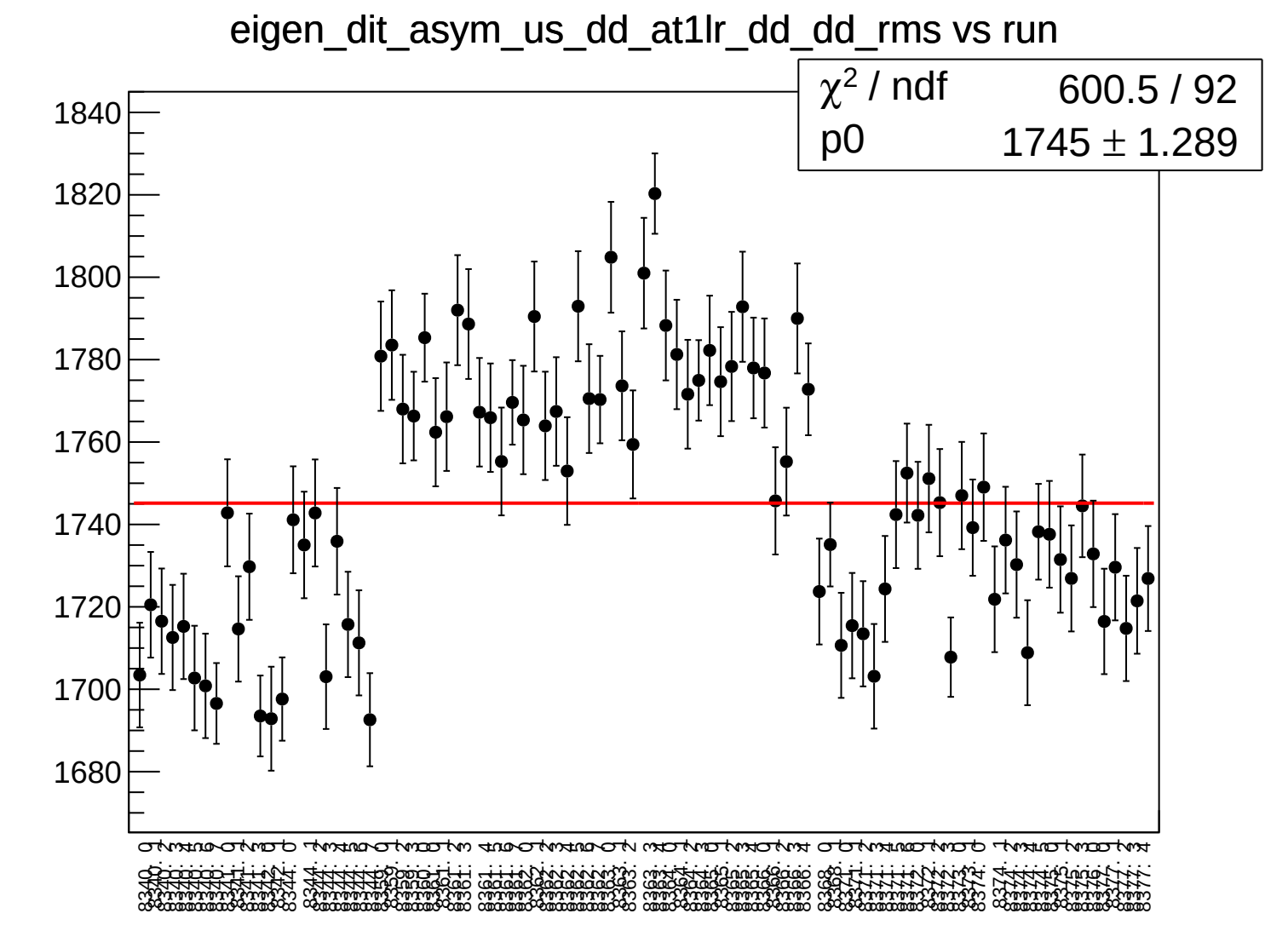

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 600.5 / 92
p0 1745 ± 1.289
1840
1820
1800
1780
1760
1740
1720
1700
1680

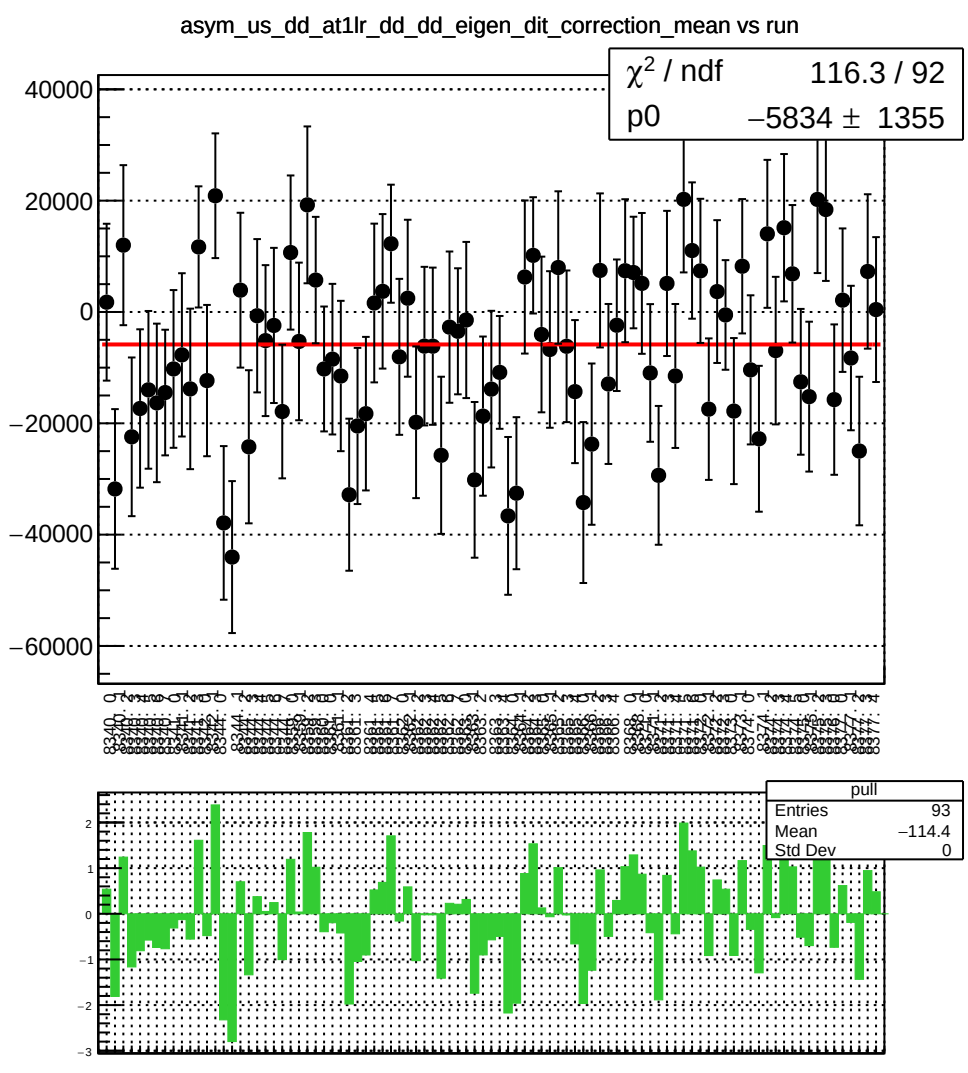

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −5834 ± 1355
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −114.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0363
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

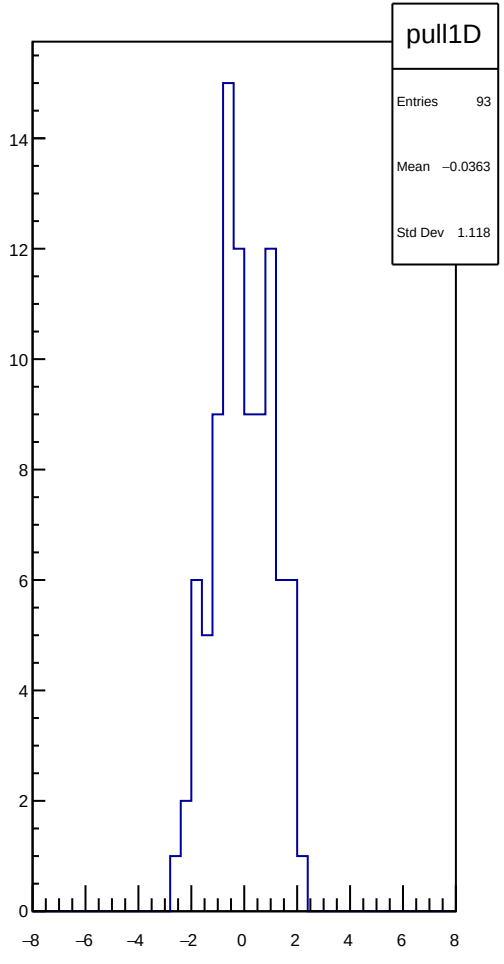

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2674 / 92
p0 1297 ± 0.9585
1400
1350
1300
1250
1200
1150

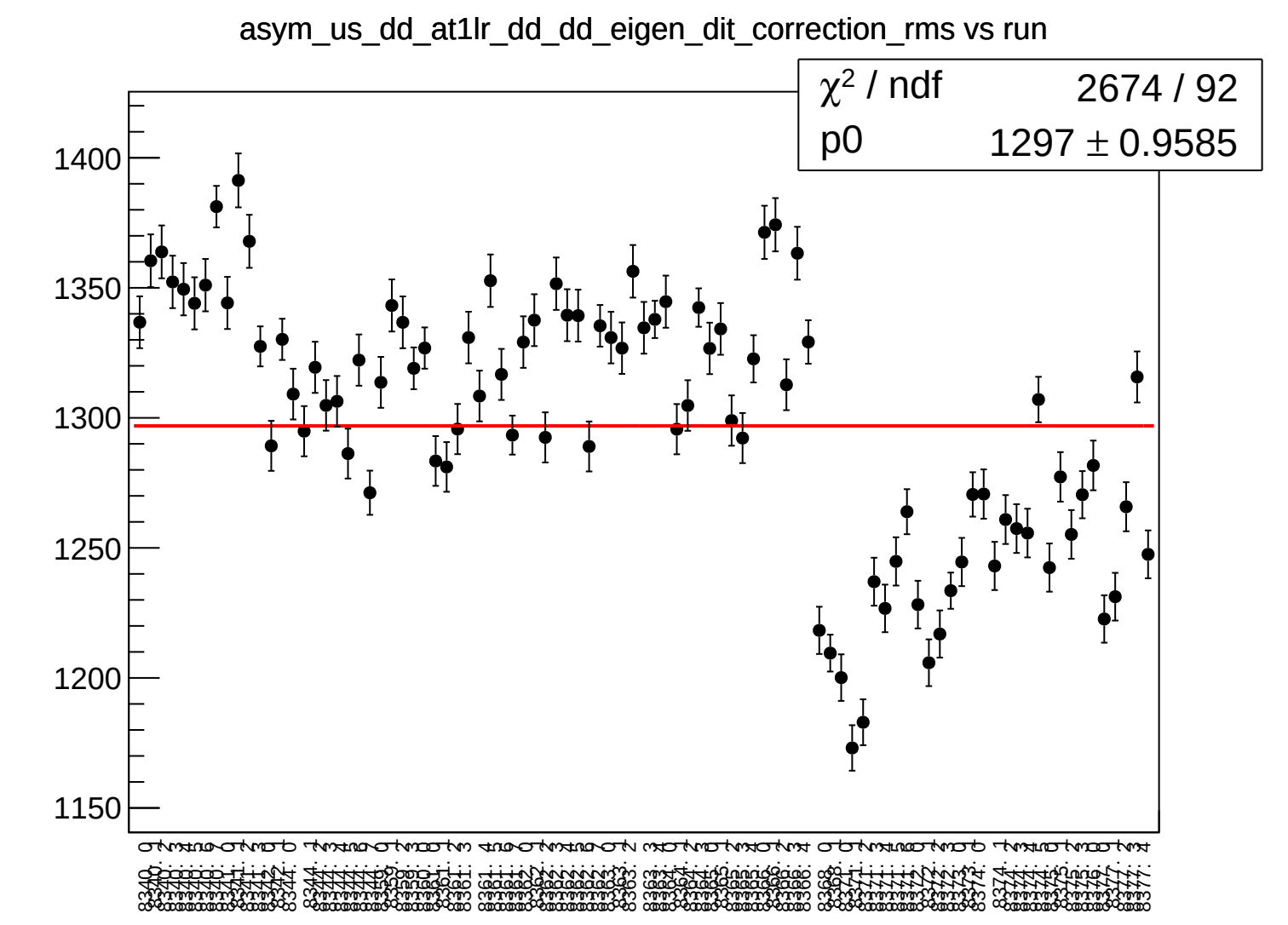

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 103.5 / 92
p0 −72.04 ± 1823
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 2210
Std Dev 0
3
2
1
0
−1
−2

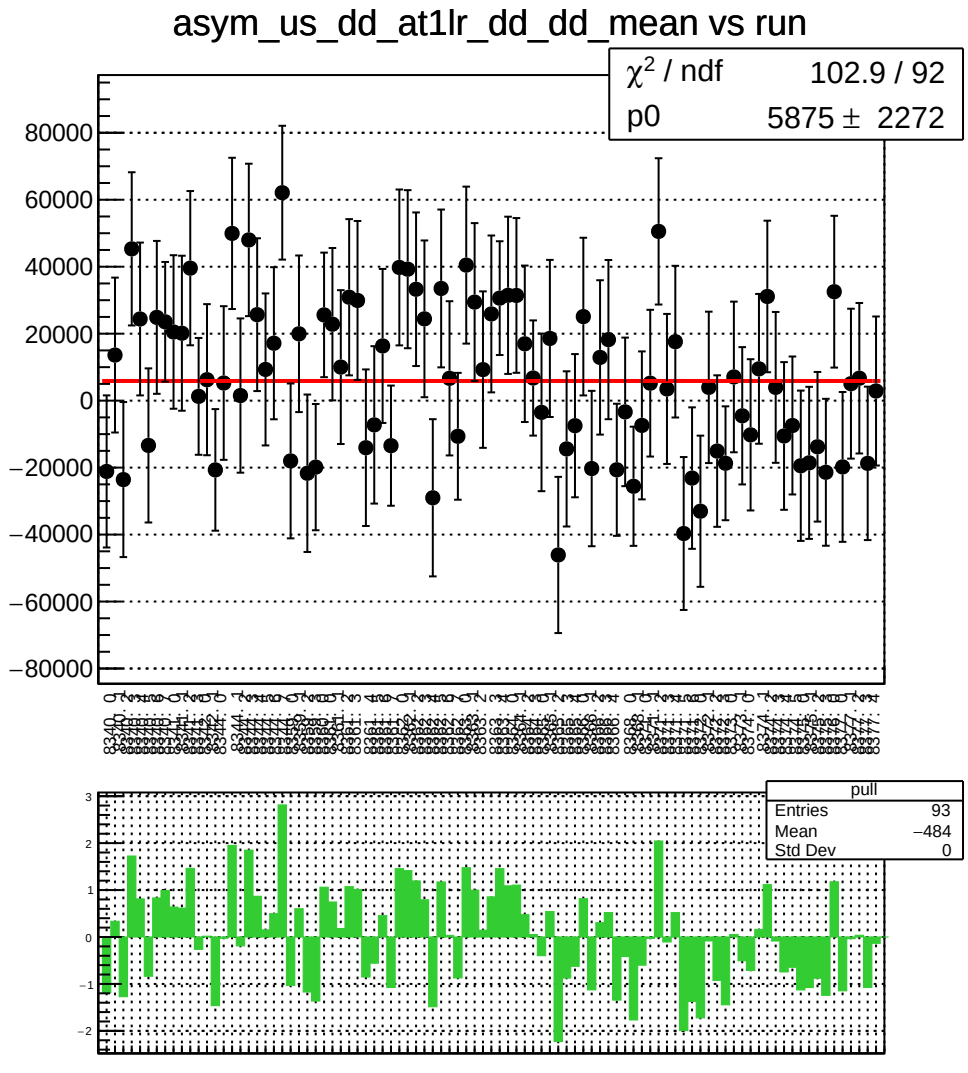

pull1D
Entries 93
Mean −0.003124
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

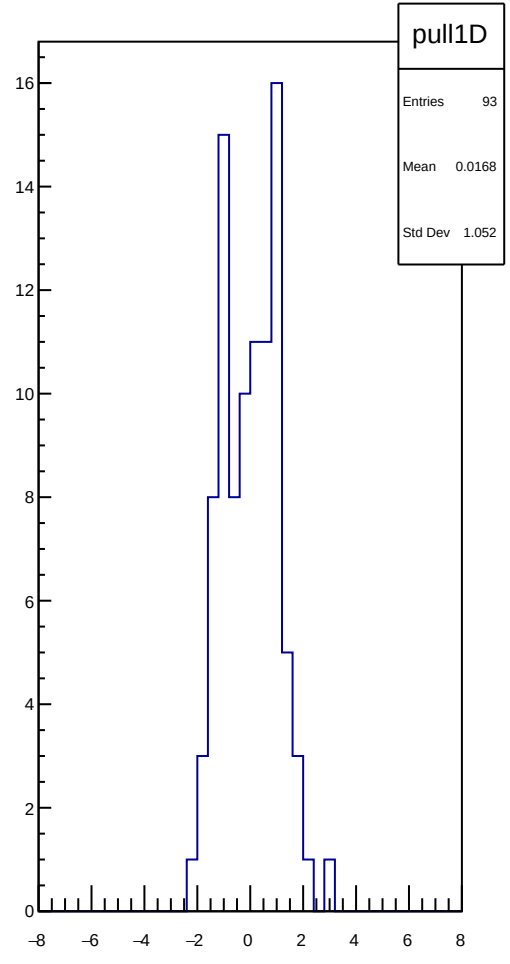

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 600.5 / 92
p0 1745 ± 1.289
1840
1820
1800
1780
1760
1740
1720
1700
1680

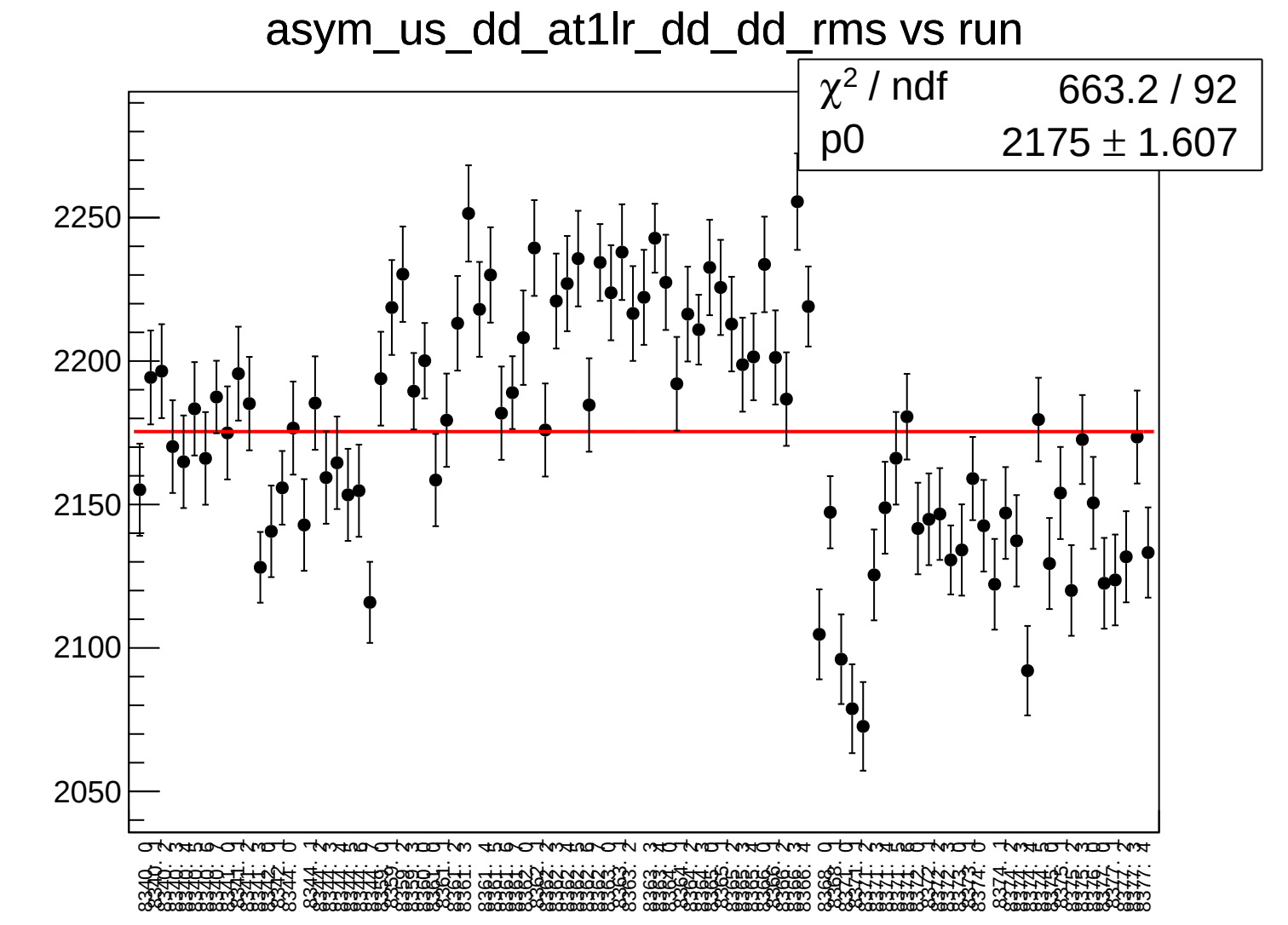

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 116.3 / 92
p0 −5834 ± 1355
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −114.4
Std Dev 0
2
1
0
−1
−2
−3

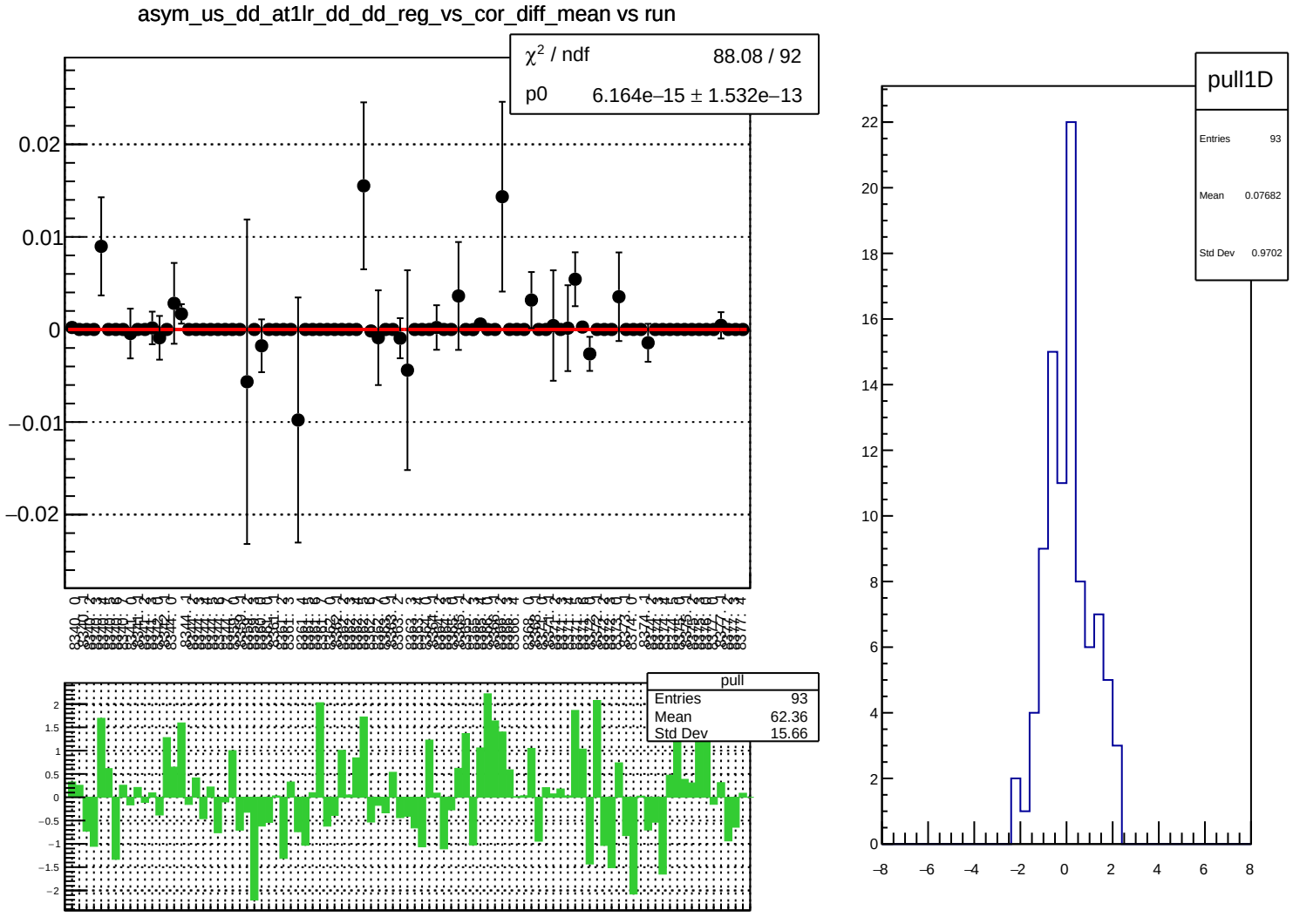

pull1D
Entries 93
Mean −0.0363
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

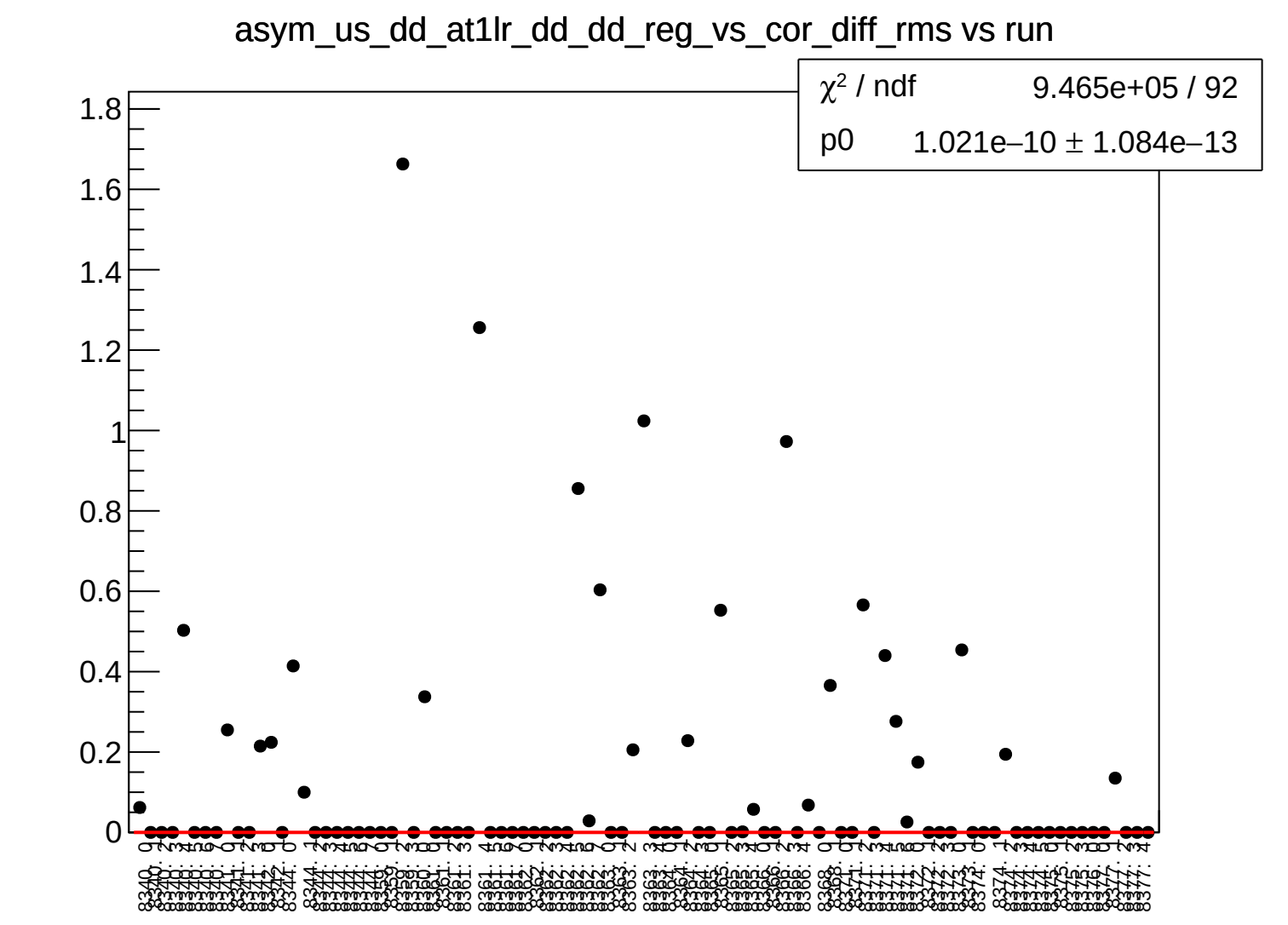

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2674 / 92
p0 1297 ± 0.9585
1400
1350
1300
1250
1200
1150

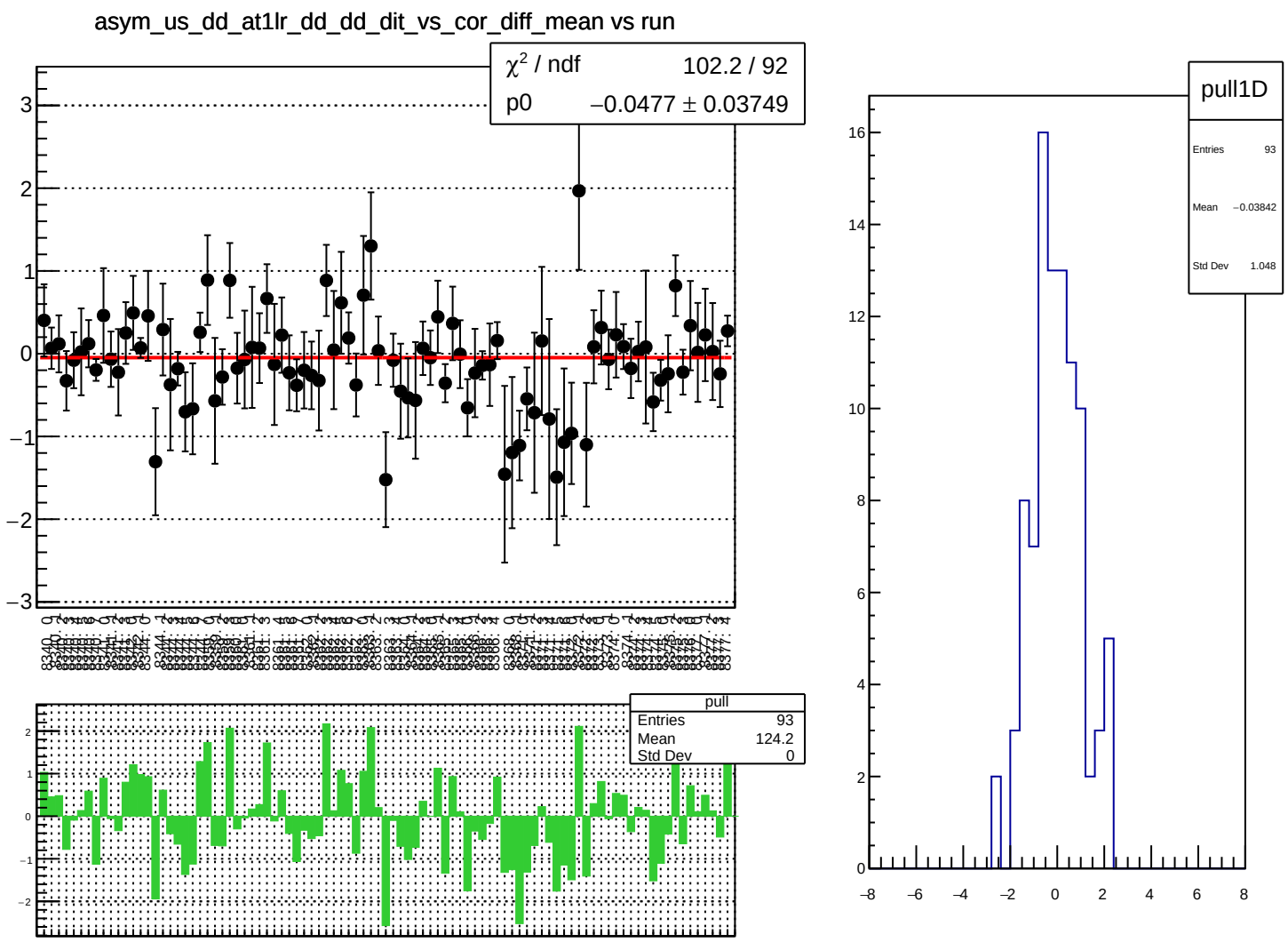

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 102.9 / 92
p0 5875 ± 2272
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −484
Std Dev 0
3
2
1
0
−1
−2

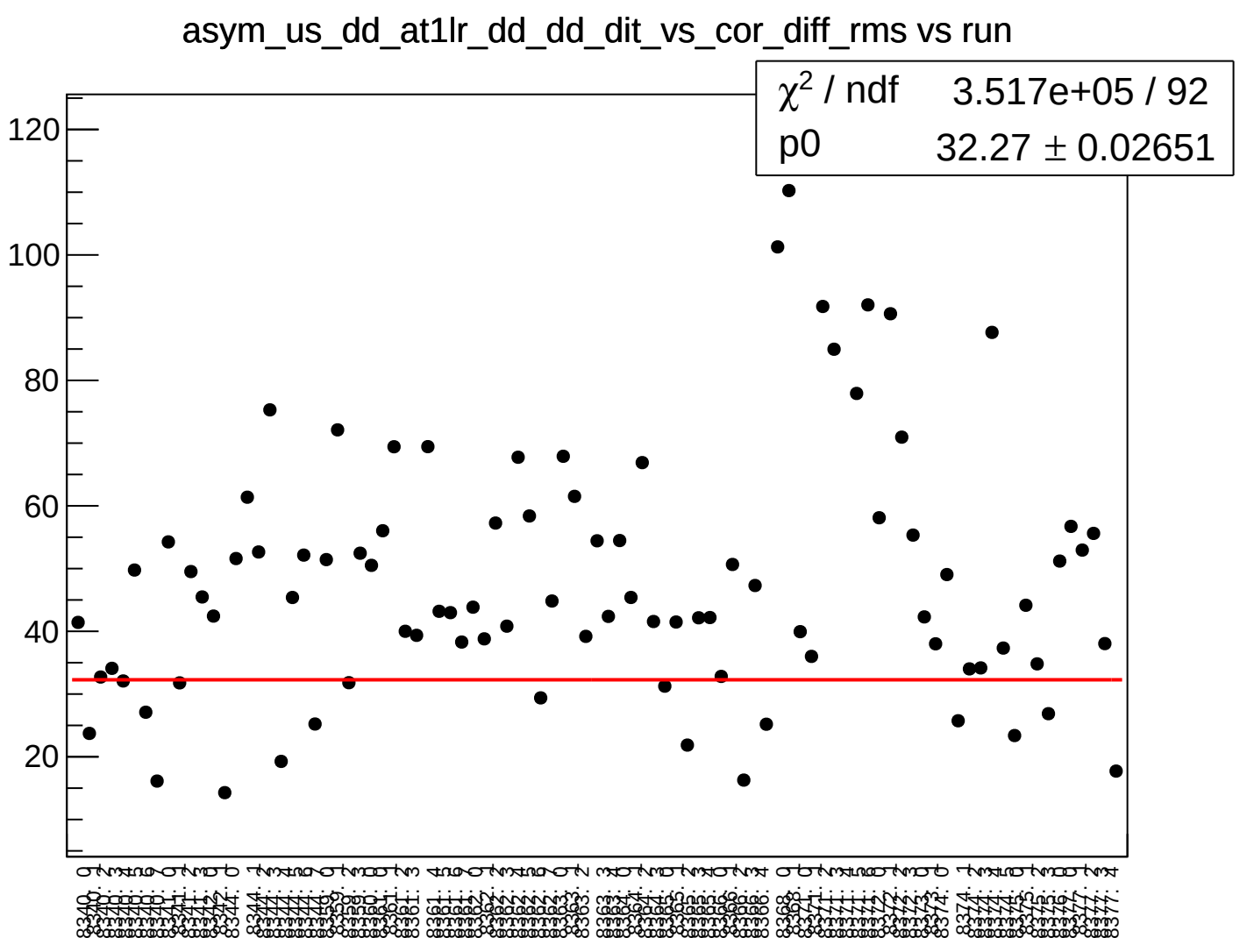

pull1D
Entries 93
Mean 0.0168
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

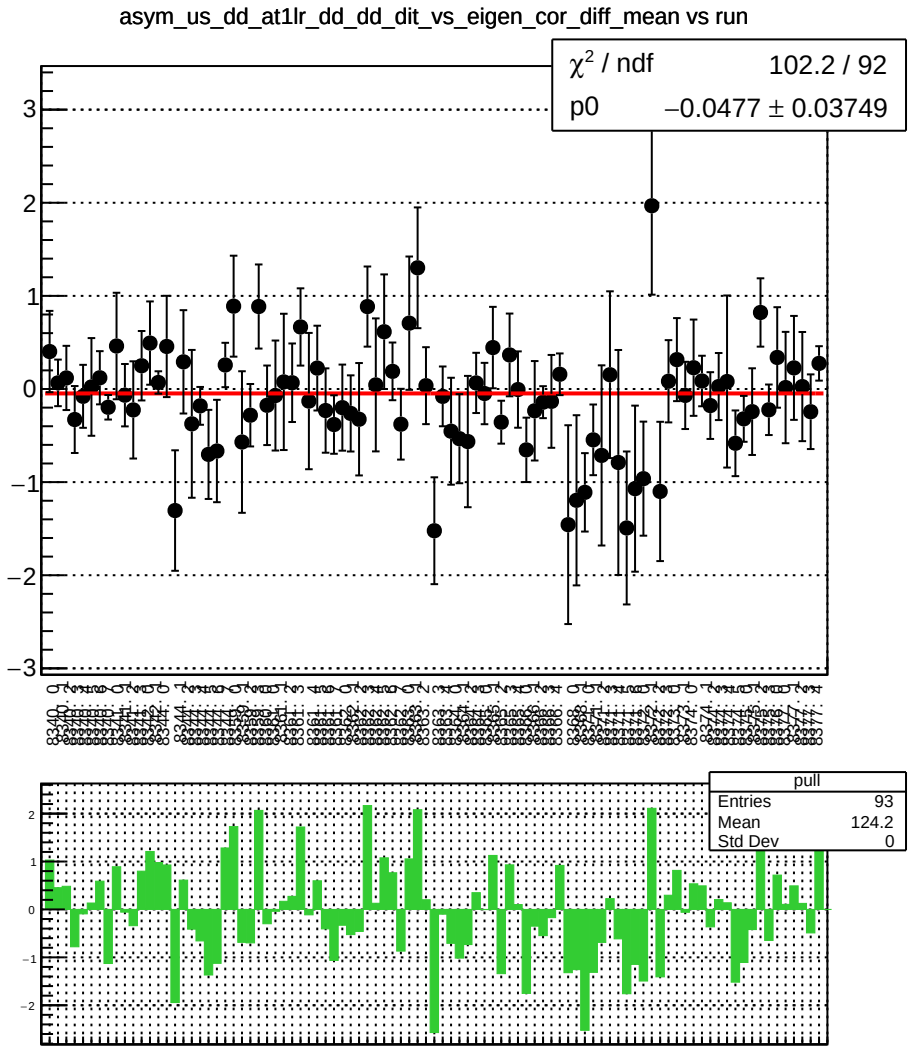

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 663.2 / 92
p0 2175 ± 1.607
2250
2200
2150
2100
2050

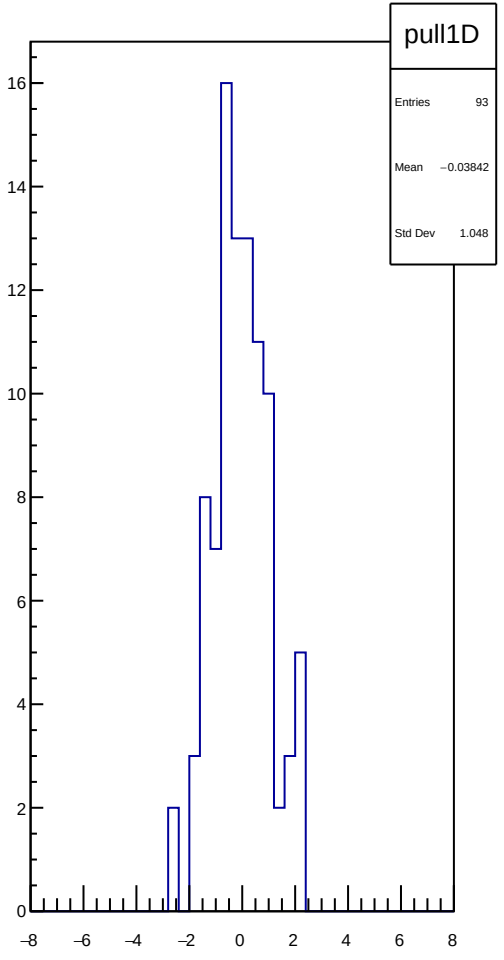

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.08 / 92
p0 6.164e−15 ± 1.532e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 93
Mean 62.36
Std Dev 15.66
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.07682
Std Dev 0.9702
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

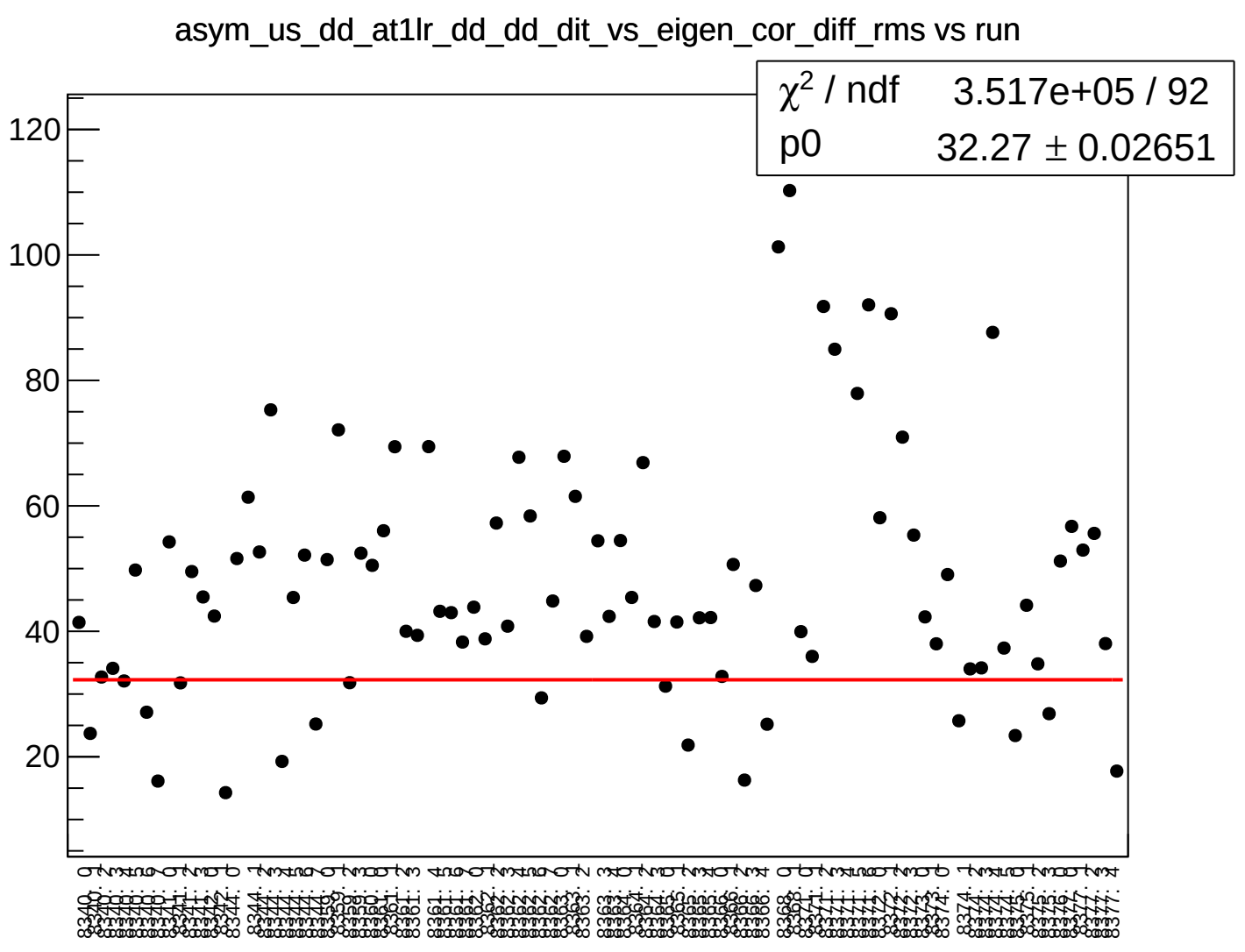

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.465e+05 / 92
p0 1.021e−10 ± 1.084e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

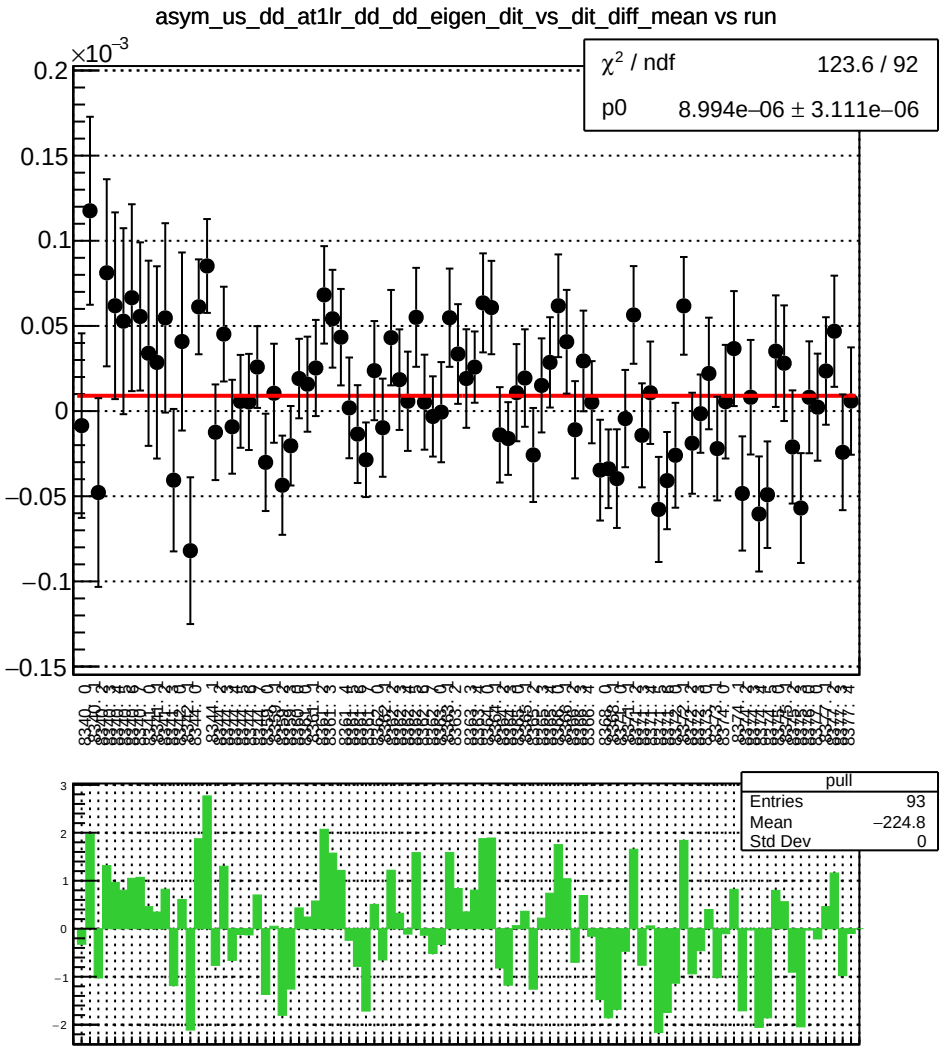

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 −0.0477 ± 0.03749
pull
Entries 93
Mean 124.2
Std Dev 0
pull1D
Entries 93
Mean −0.03842
Std Dev 1.048

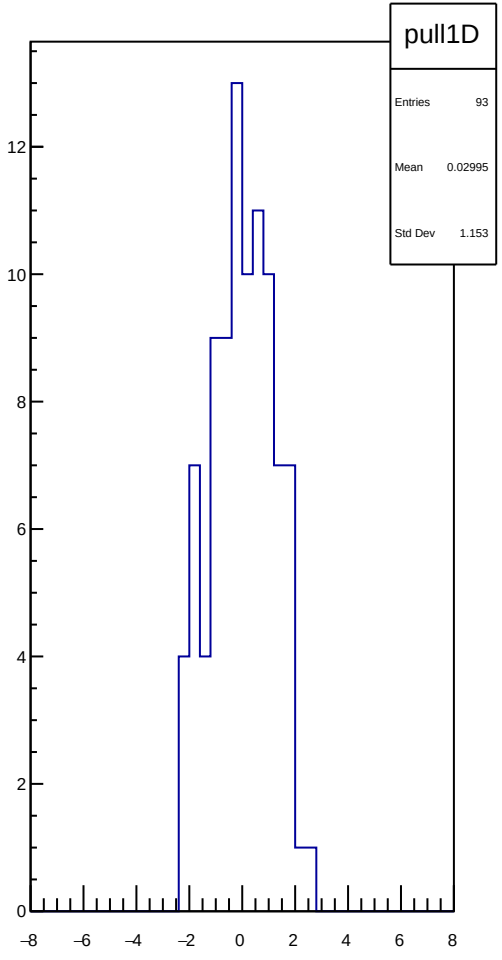

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.517e+05 / 92
p0 32.27 ± 0.02651
120
100
80
60
40
20

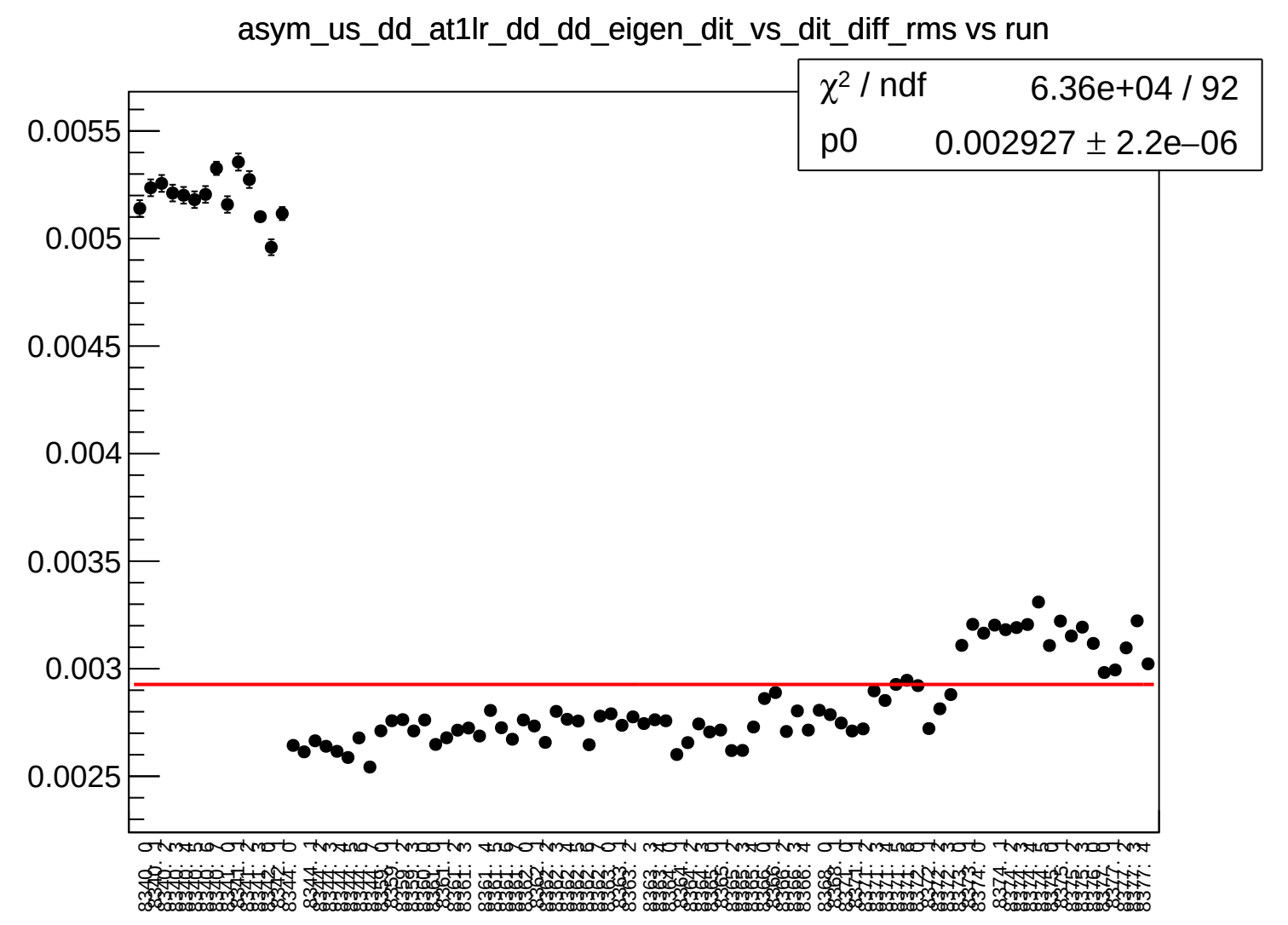

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 −0.0477 ± 0.03749
pull
Entries 93
Mean 124.2
Std Dev 0

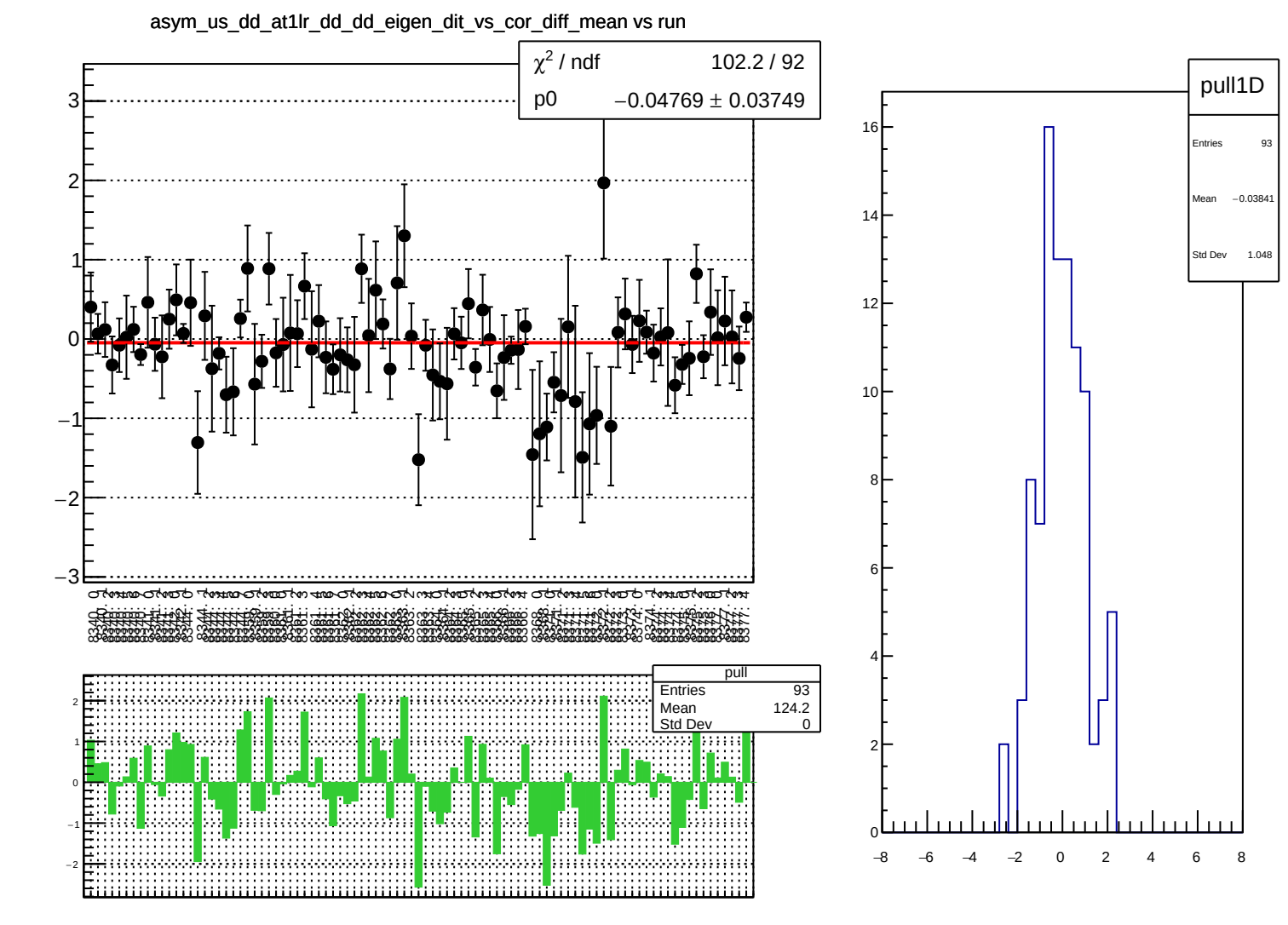

pull1D
Entries 93
Mean −0.03842
Std Dev 1.048

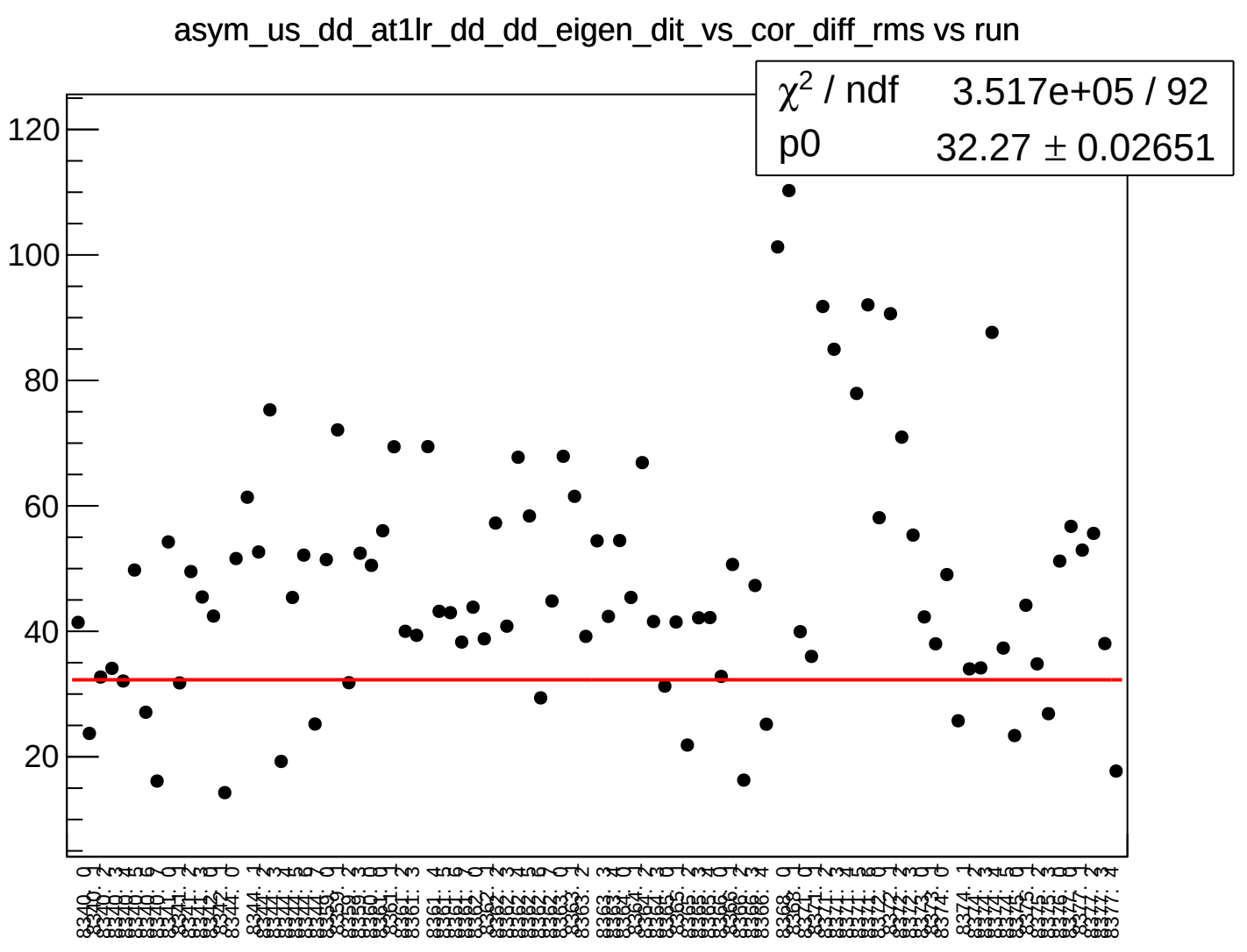

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.517e+05 / 92
p0 32.27 ± 0.02651
120
100
80
60
40
20

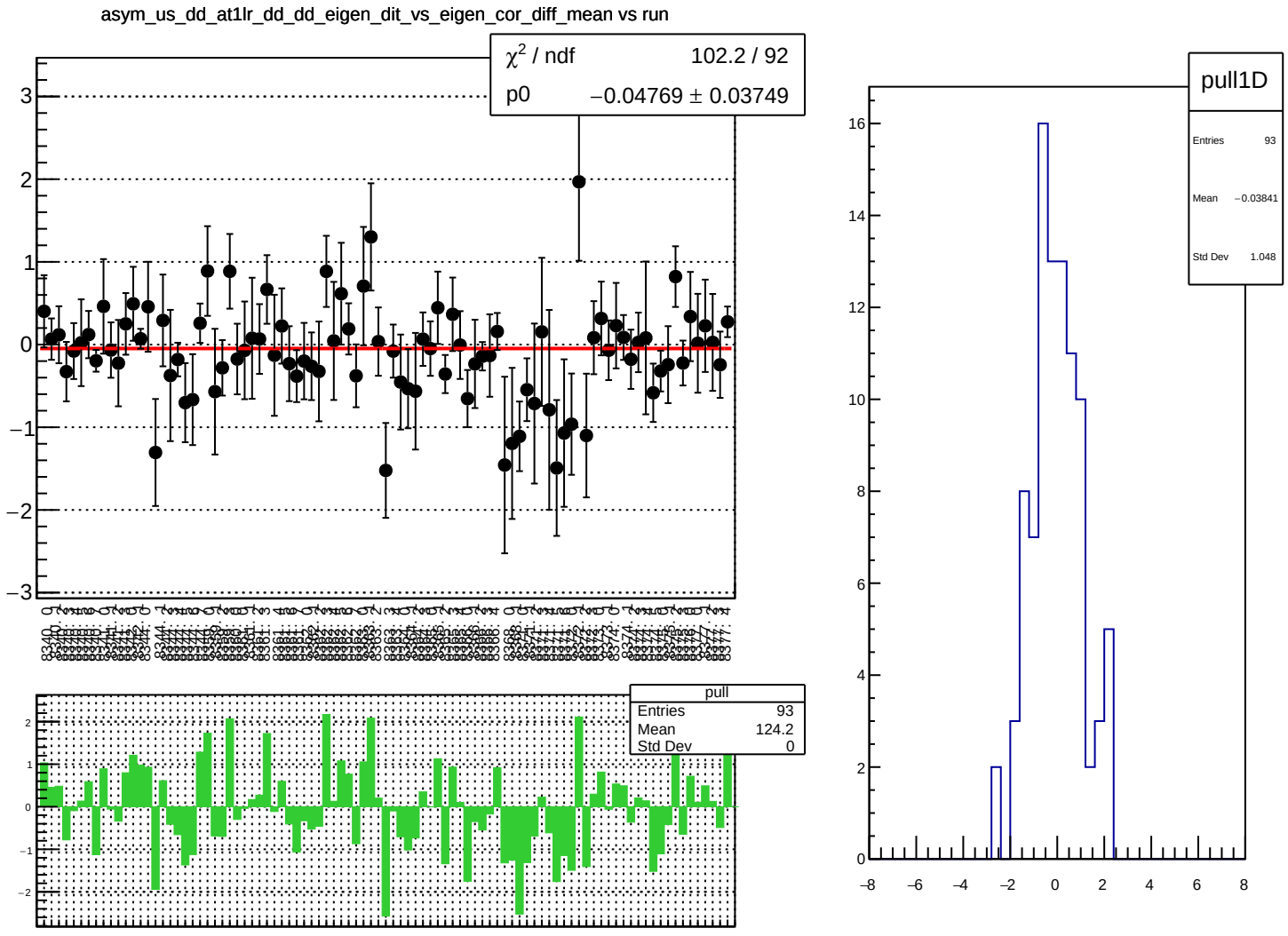

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 123.6 / 92
p0 8.994e−06 ± 3.111e−06
pull
Entries 93
Mean −224.8
Std Dev 0

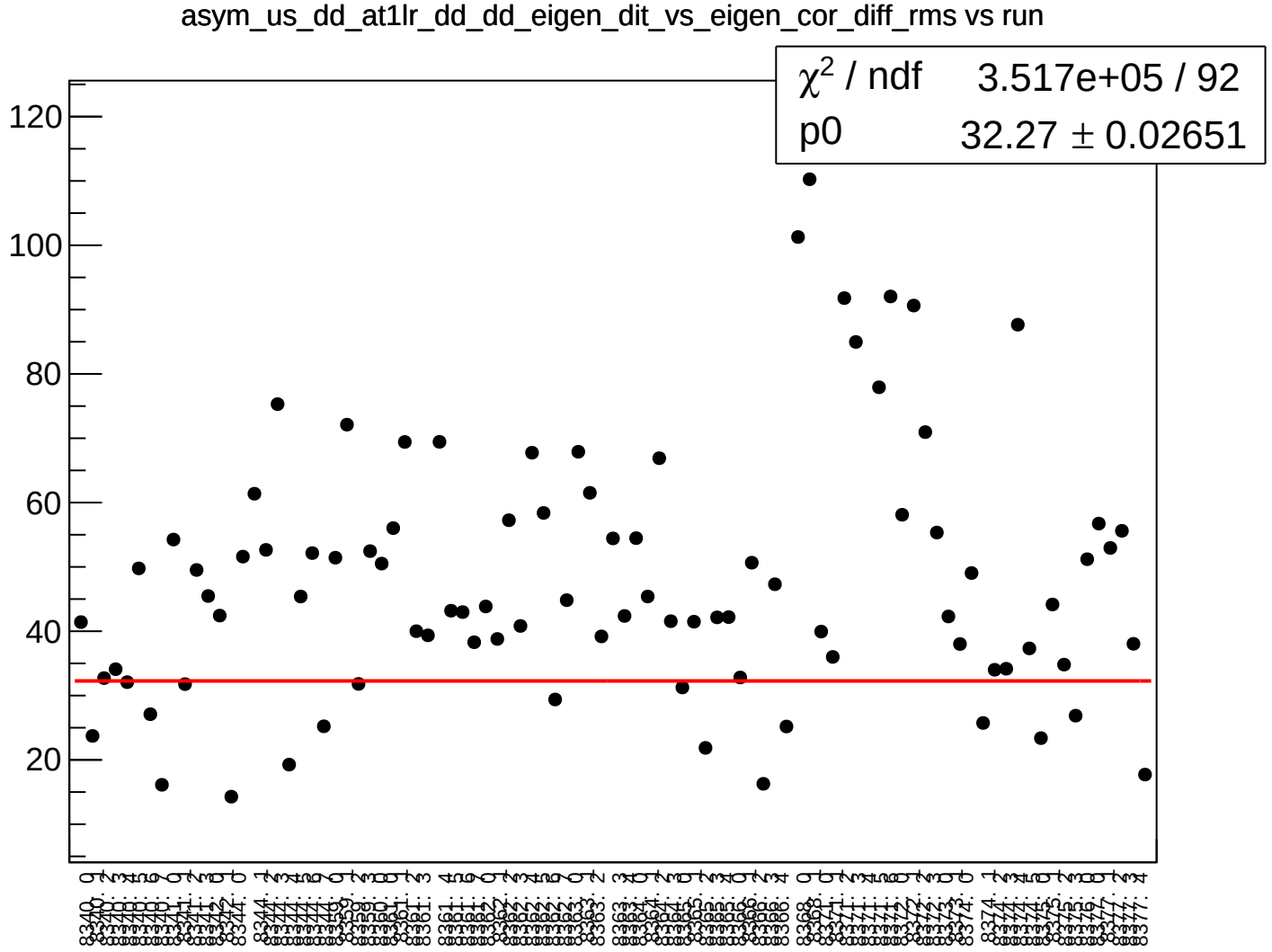

pull1D
Entries 93
Mean 0.02995
Std Dev 1.153

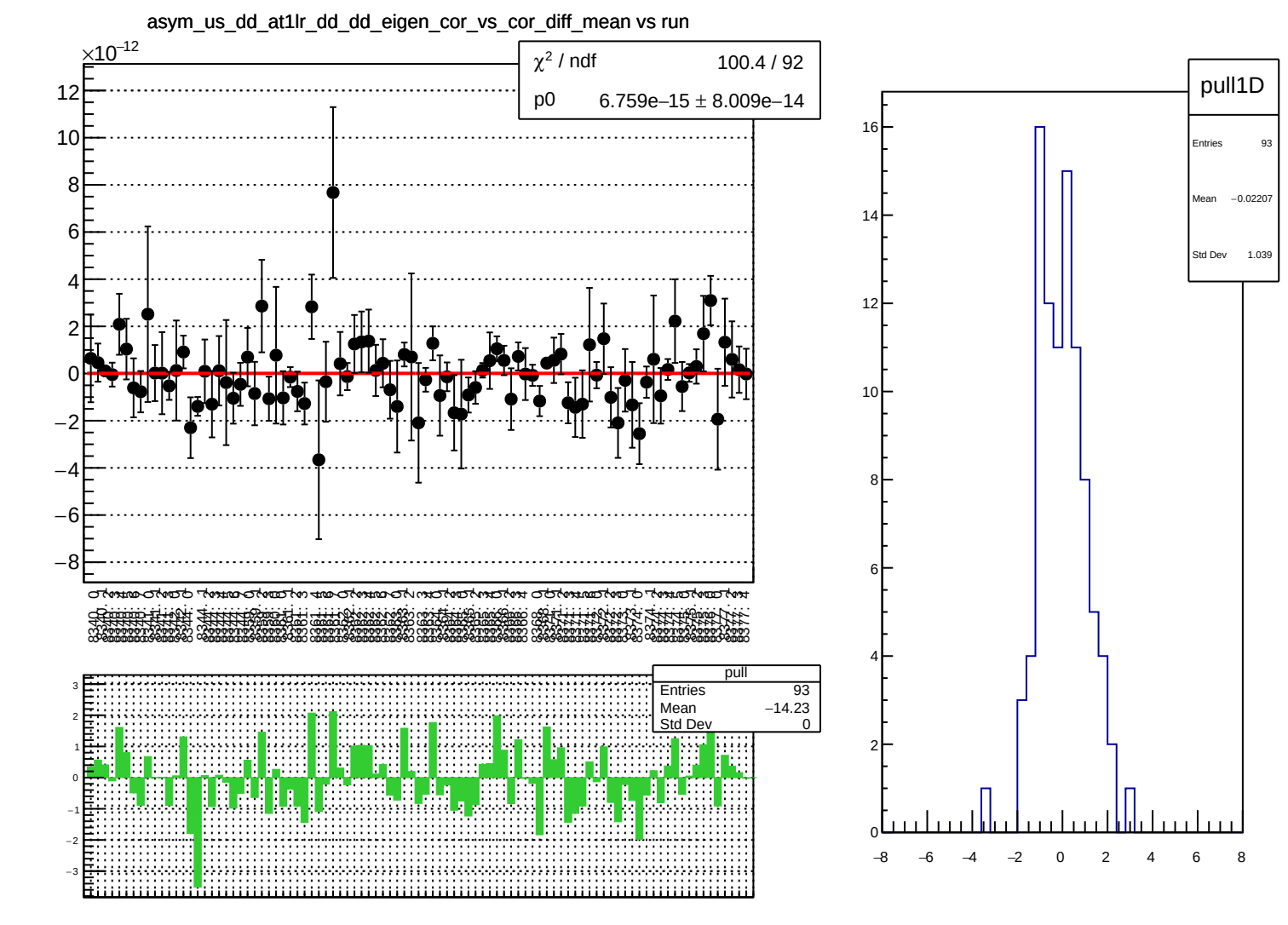

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.36e+04 / 92
p0 0.002927 ± 2.2e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

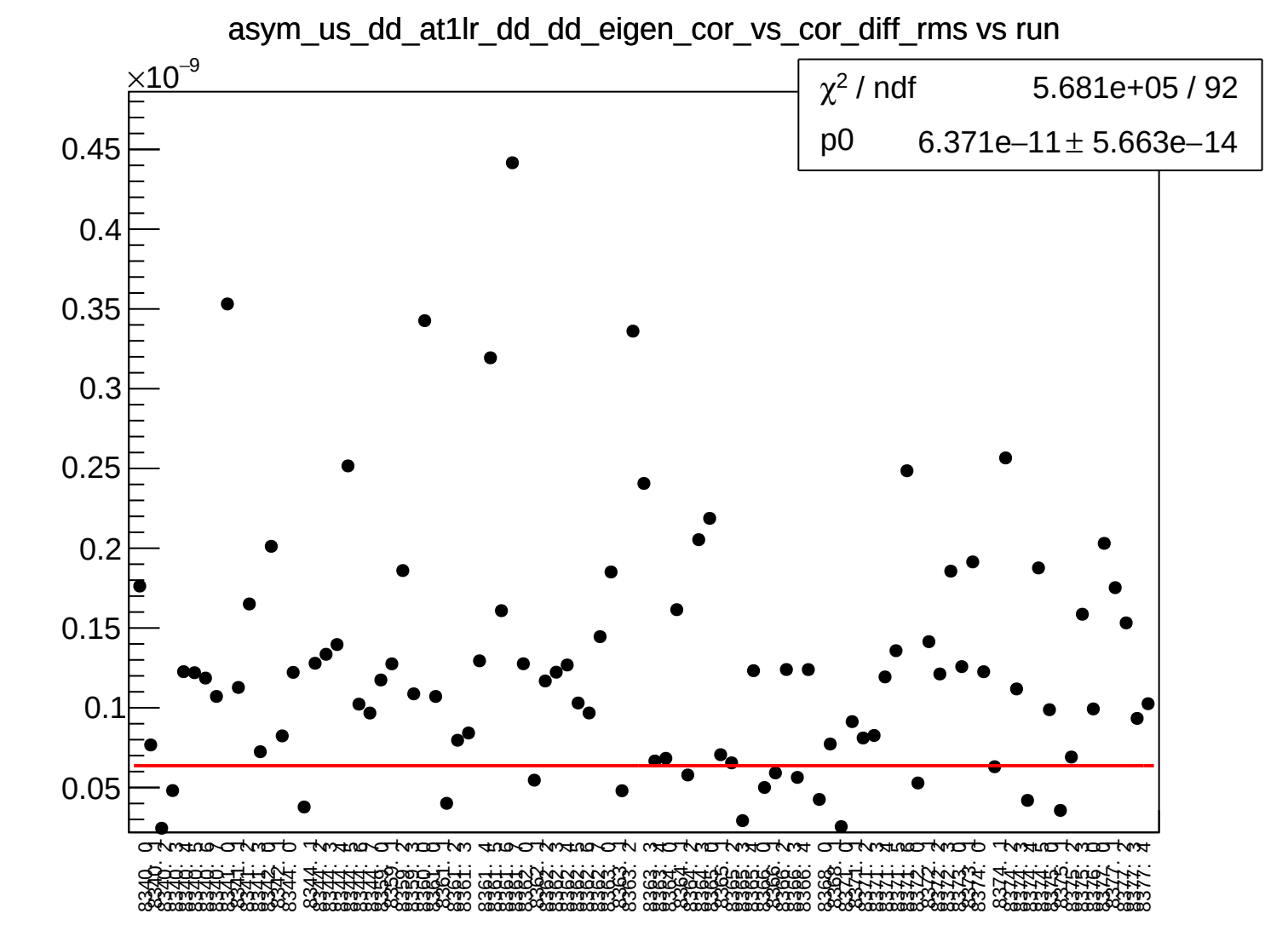

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 −0.04769 ± 0.03749
pull
Entries 93
Mean 124.2
Std Dev 0
pull1D
Entries 93
Mean −0.03841
Std Dev 1.048

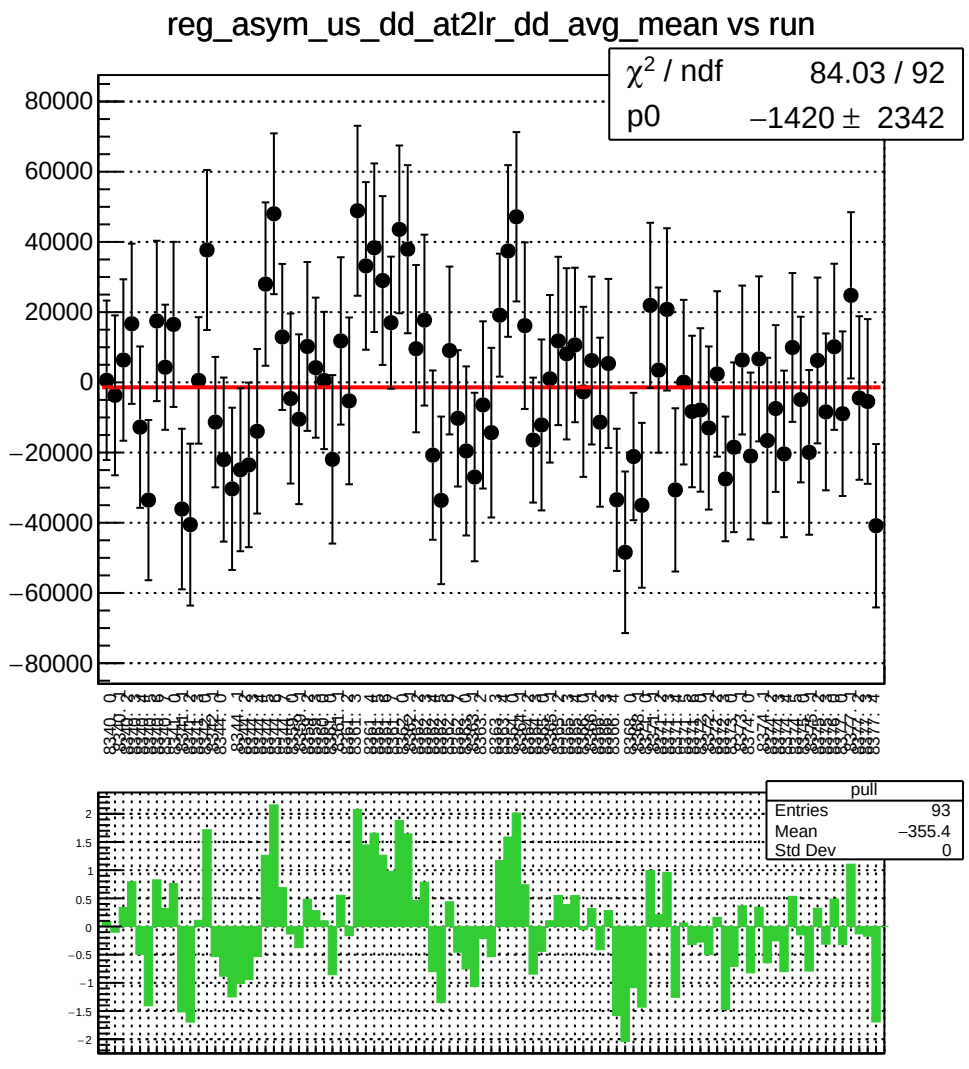

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.517e+05 / 92
p0 32.27 ± 0.02651
120
100
80
60
40
20

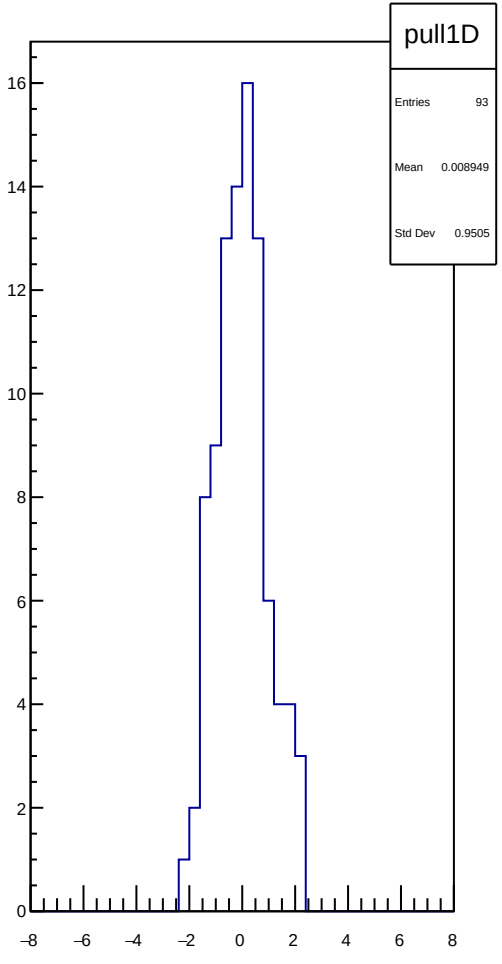

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 92
p0 −0.04769 ± 0.03749
pull
Entries 93
Mean 124.2
Std Dev 0
pull1D
Entries 93
Mean −0.03841
Std Dev 1.048

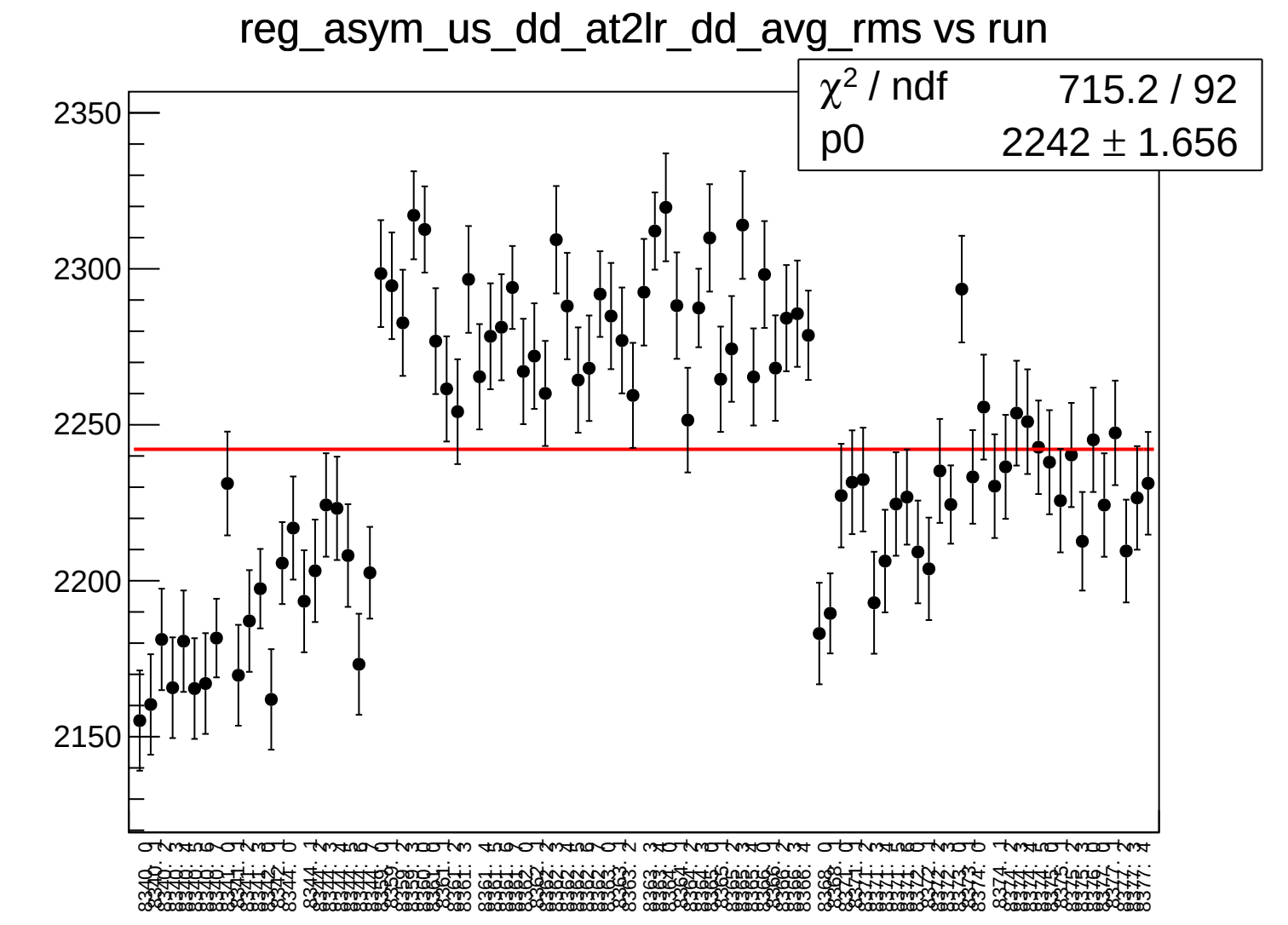

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.517e+05 / 92
p0 32.27 ± 0.02651
120
100
80
60
40
20

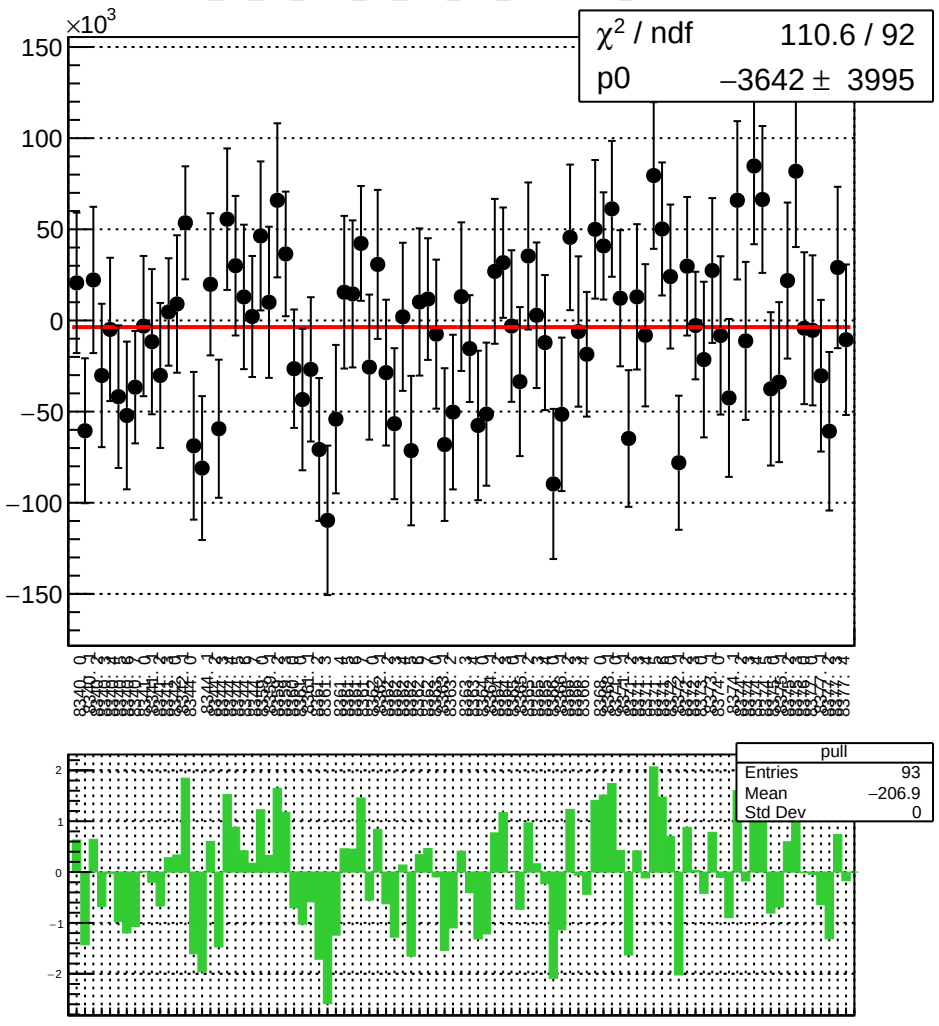

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.4 / 92
p0 6.759e−15 ± 8.009e−14
pull
Entries 93
Mean −14.23
Std Dev 0
pull1D
Entries 93
Mean −0.02207
Std Dev 1.039

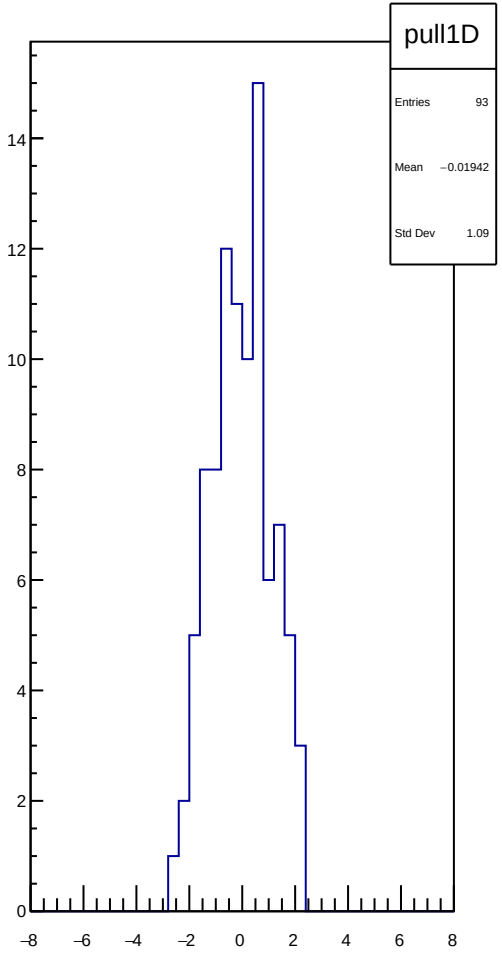

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.681e+05 / 92
p0 6.371e−11 ± 5.663e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

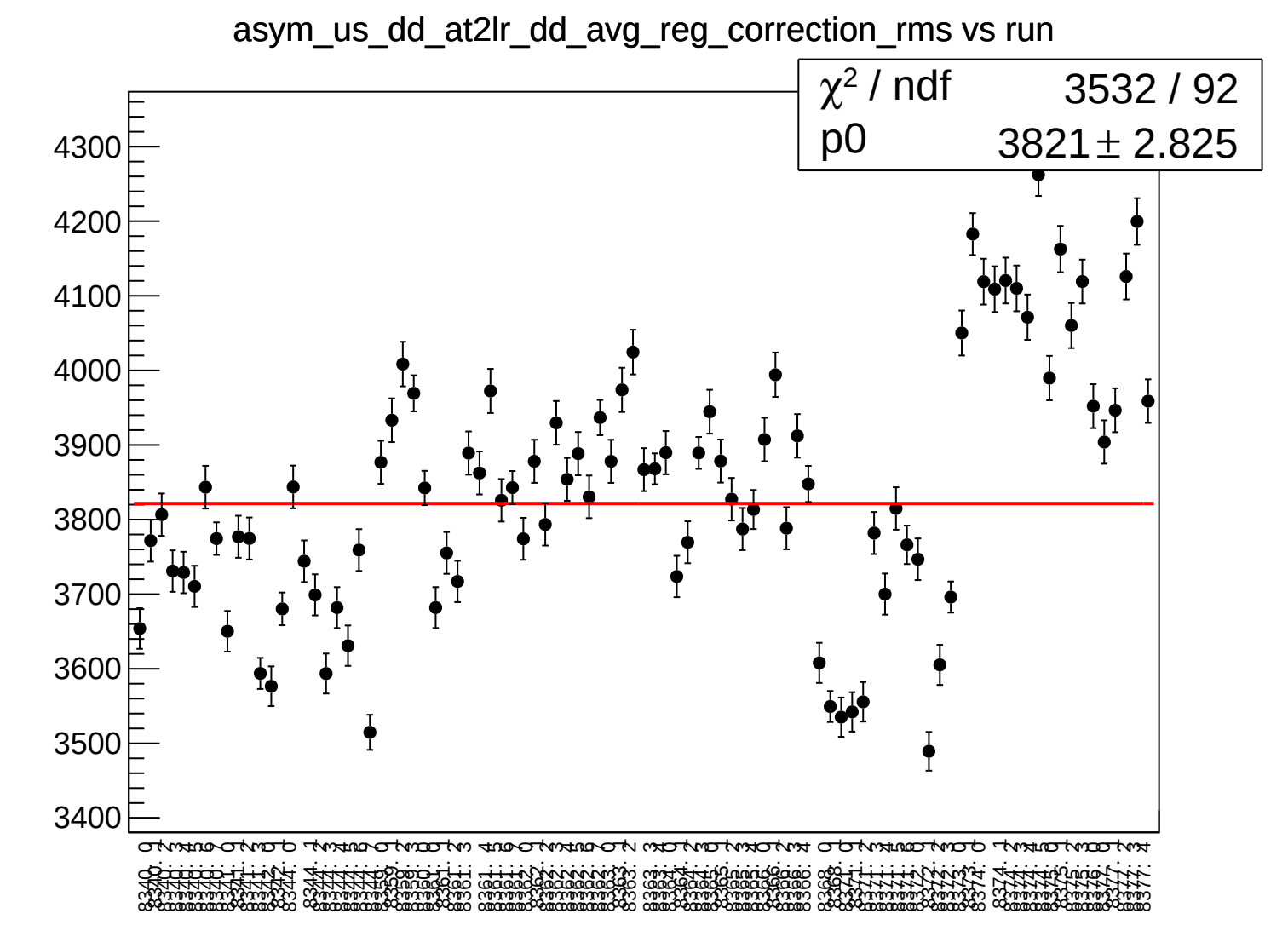

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.03 / 92
p0 −1420 ± 2342
pull
Entries 93
Mean −355.4
Std Dev 0

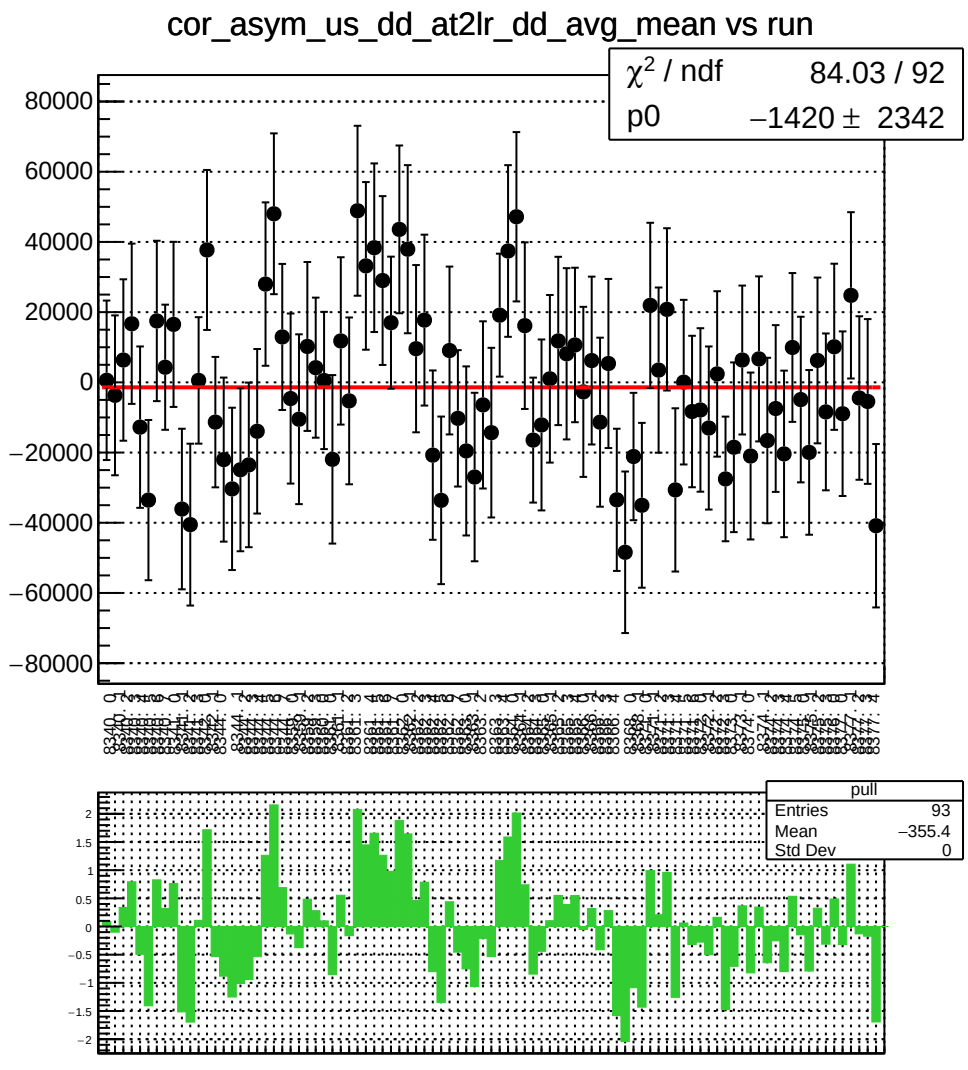

pull1D
Entries 93
Mean 0.008949
Std Dev 0.9505

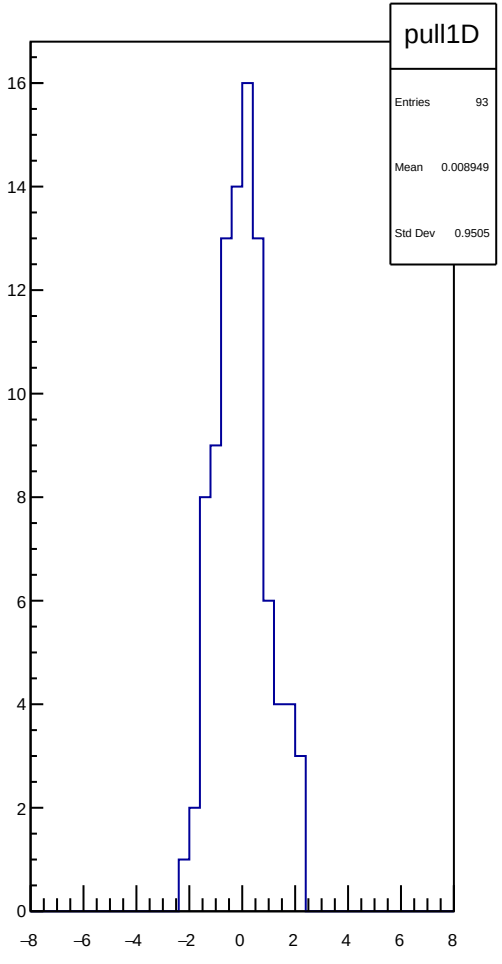

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 715.2 / 92
p0 2242 ± 1.656
2350
2300
2250
2200
2150

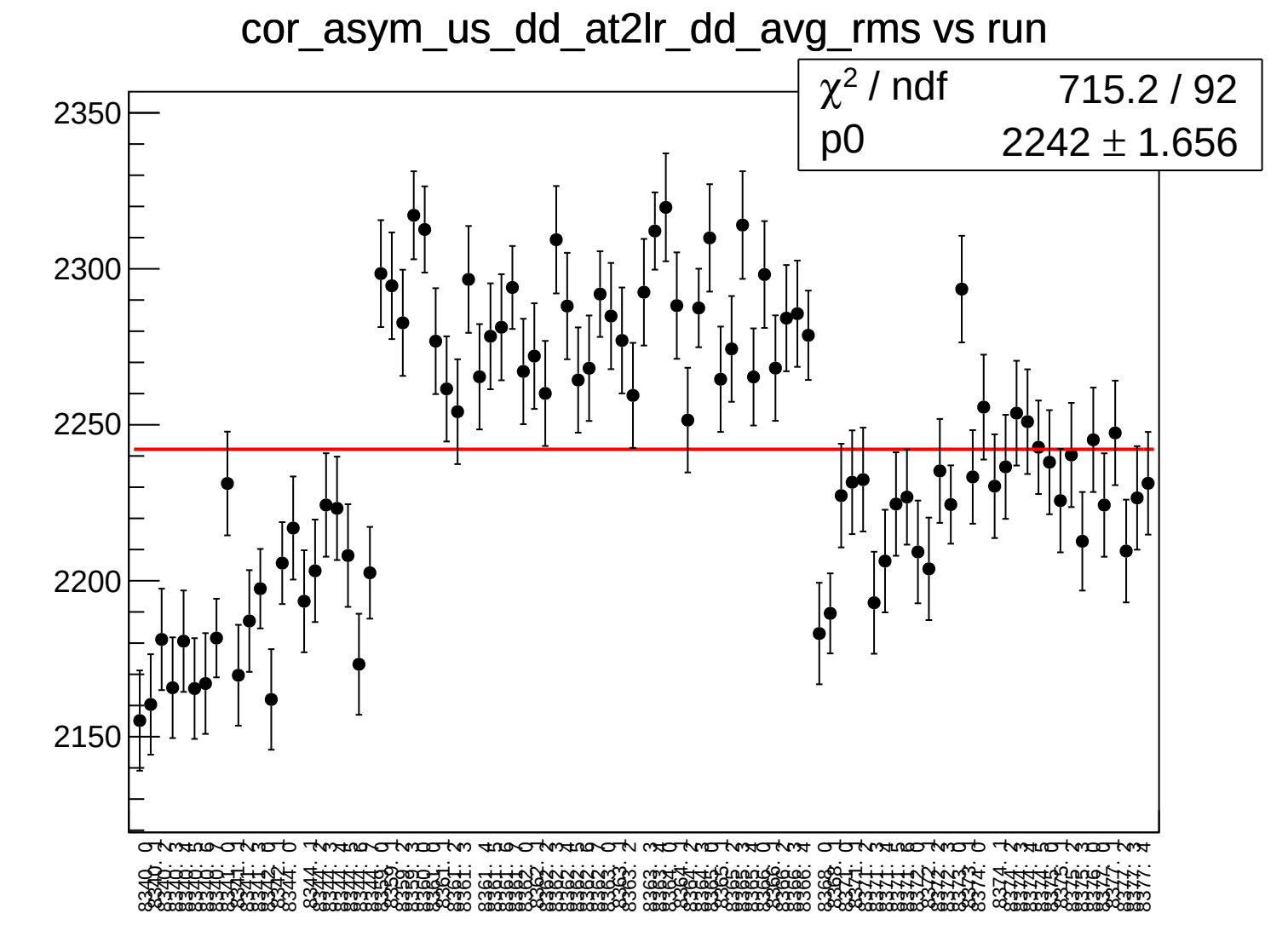

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 110.6 / 92
p0 −3642 ± 3995
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −206.9
Std Dev 0
2
1
0
−1
−2

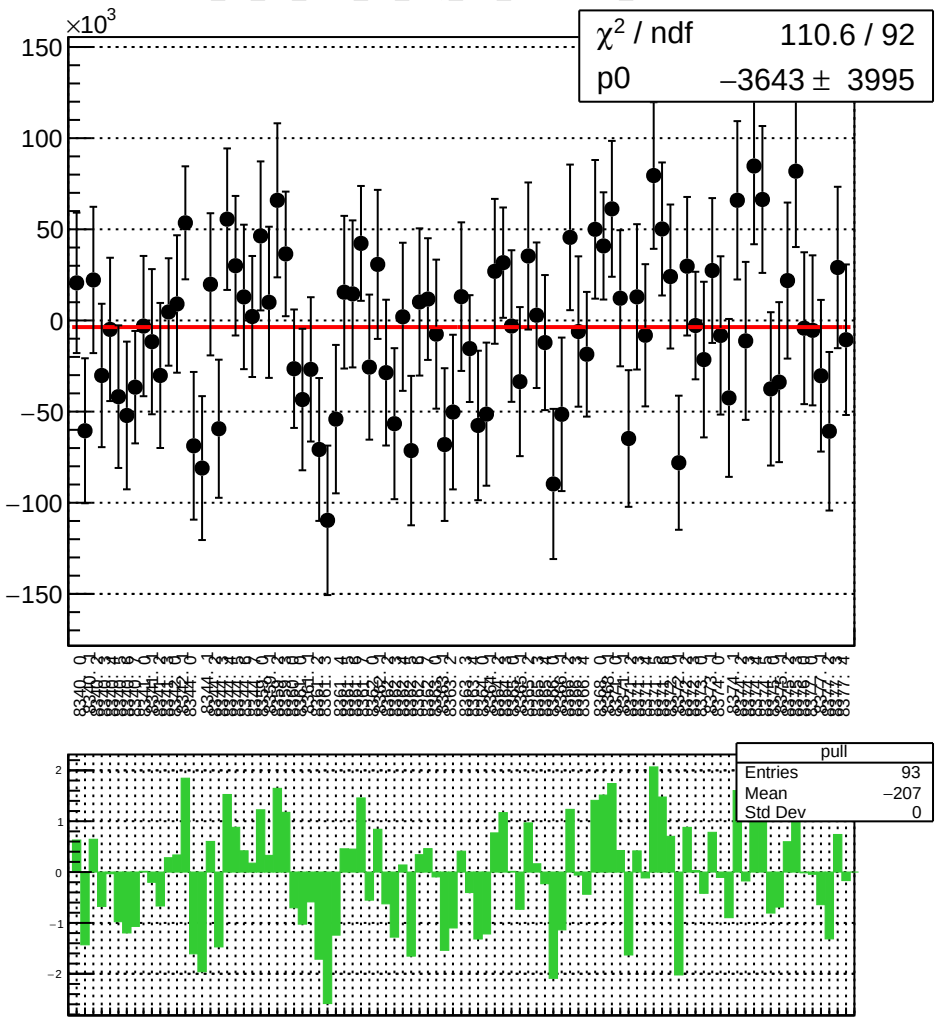

pull1D
Entries 93
Mean −0.01942
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

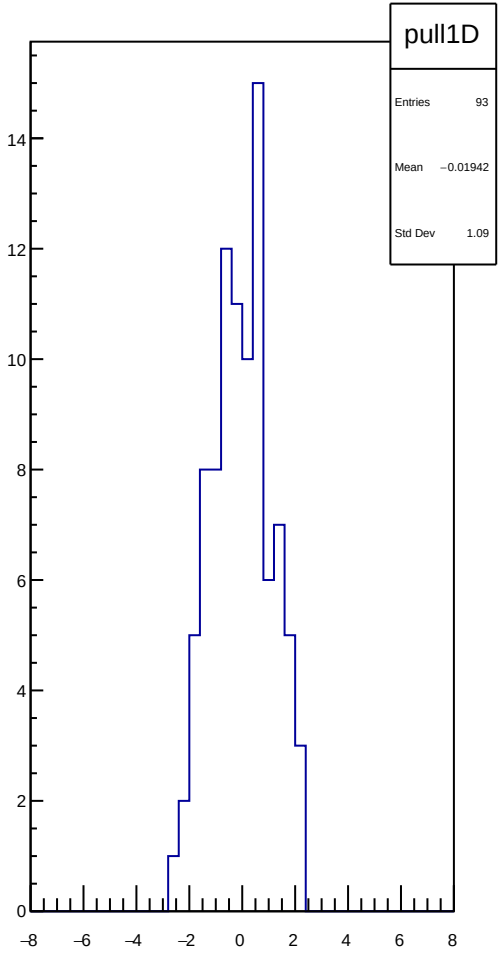

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3532 / 92
p0 3821 ± 2.825
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

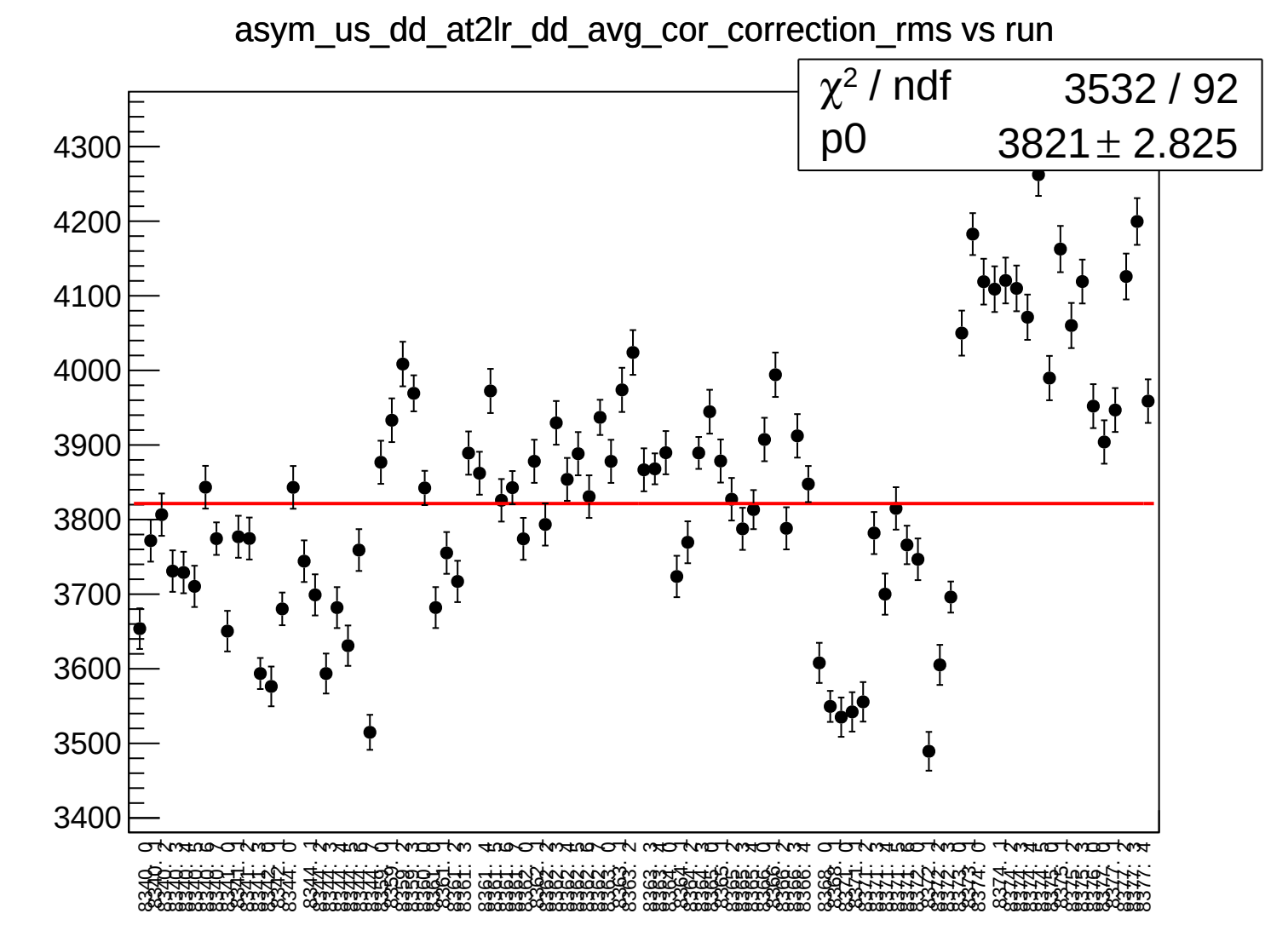

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.03 / 92
p0 −1420 ± 2342
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −355.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

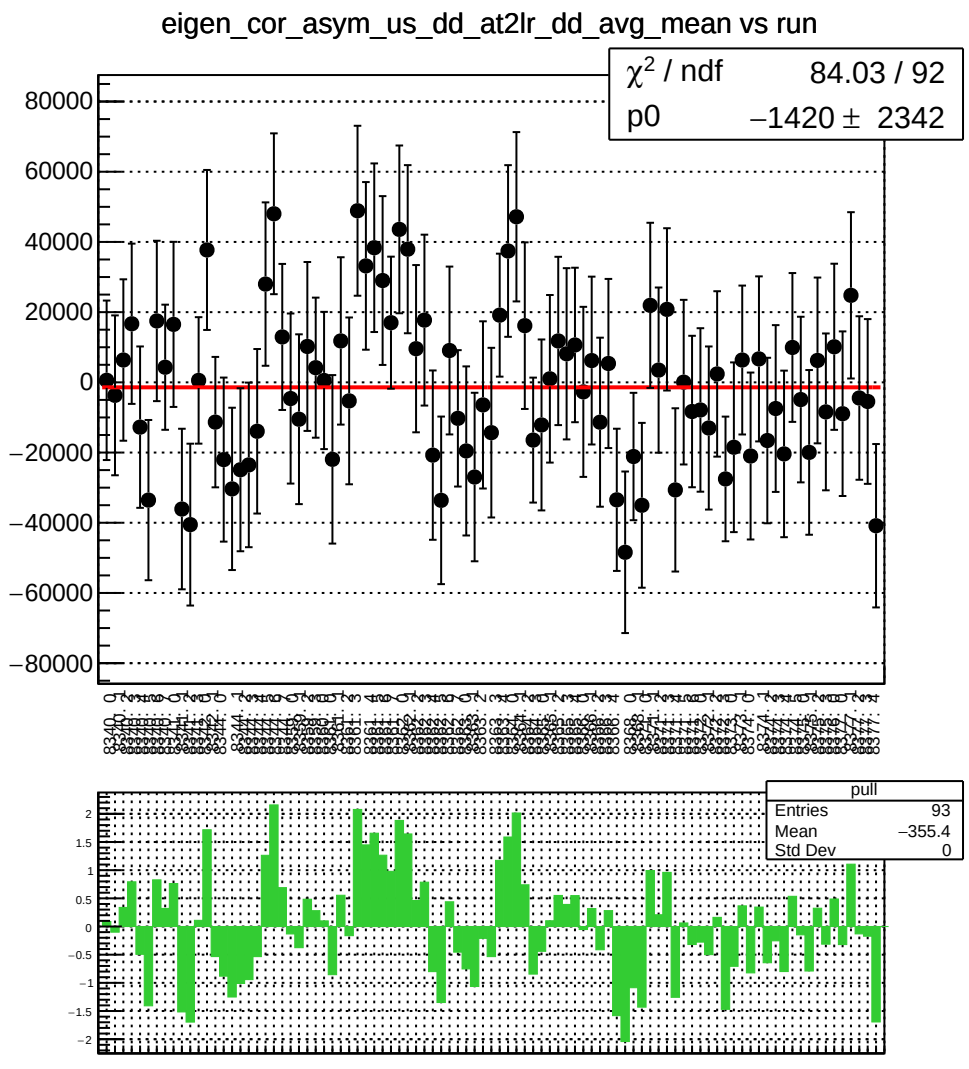

pull1D
Entries 93
Mean 0.008949
Std Dev 0.9505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

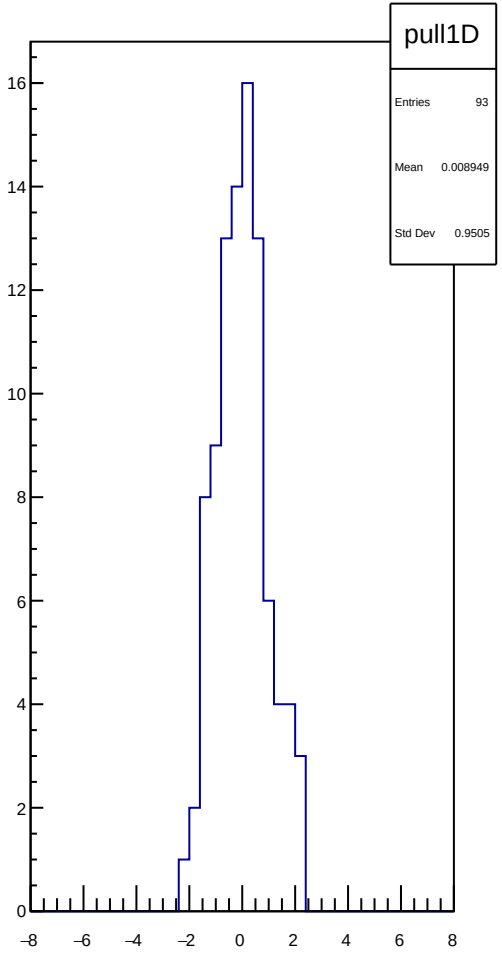

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 715.2 / 92
p0 2242 ± 1.656
2350
2300
2250
2200
2150

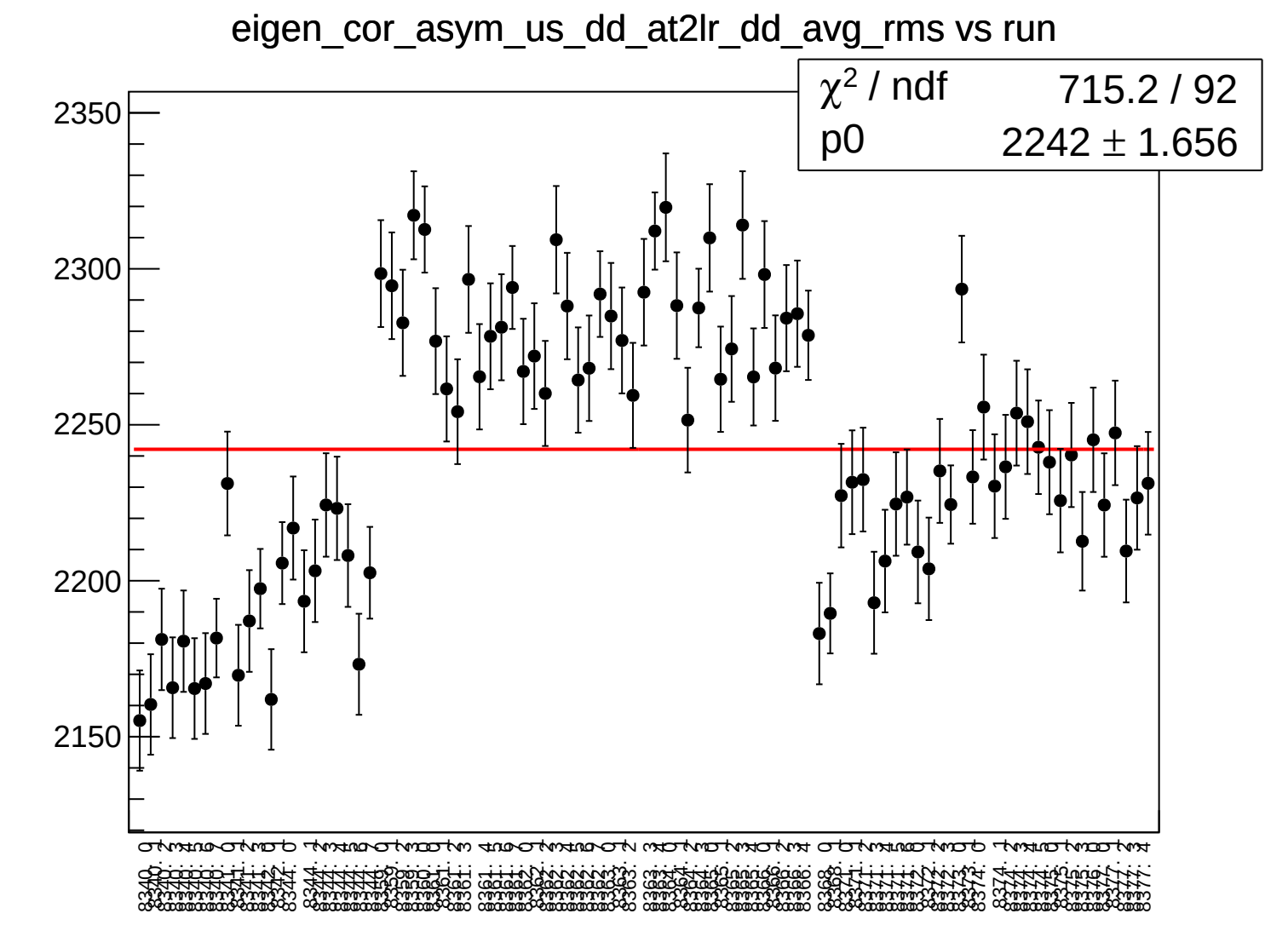

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −3643 ± 3995
pull
Entries 93
Mean −207
Std Dev 0

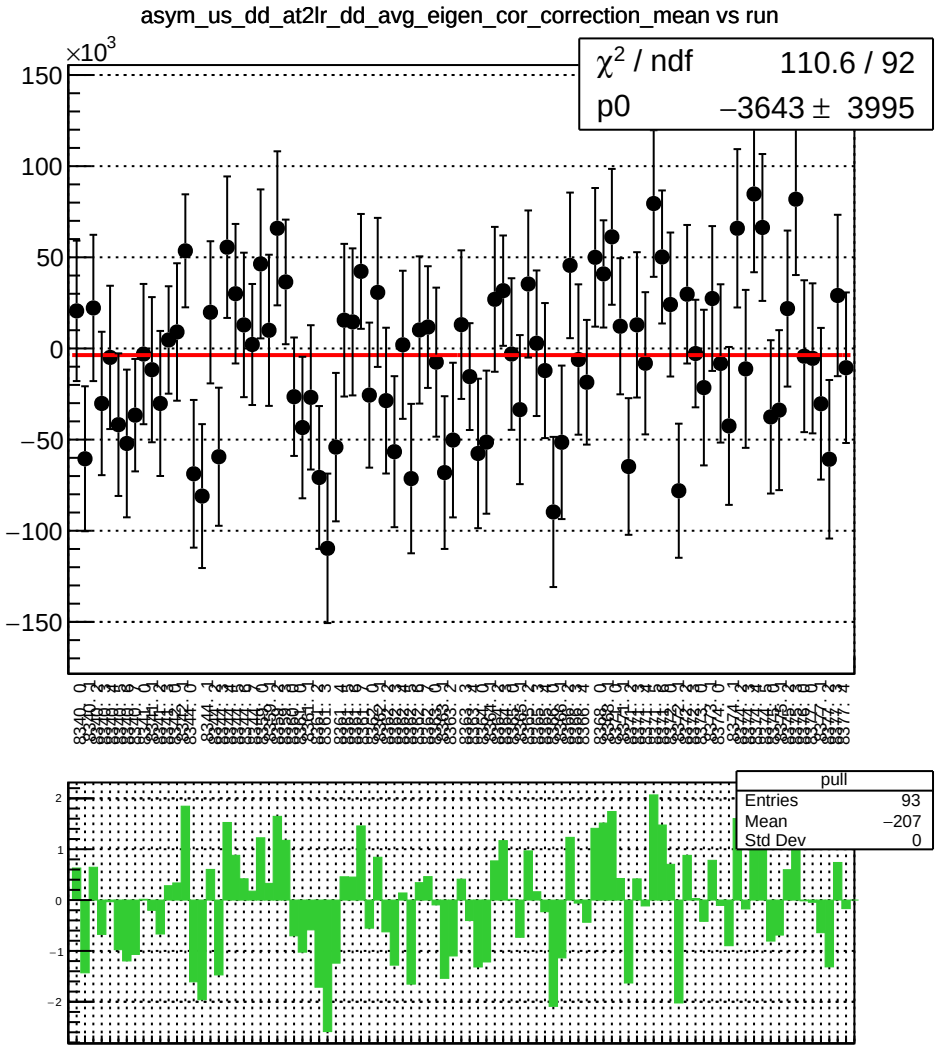

pull1D
Entries 93
Mean −0.01942
Std Dev 1.09

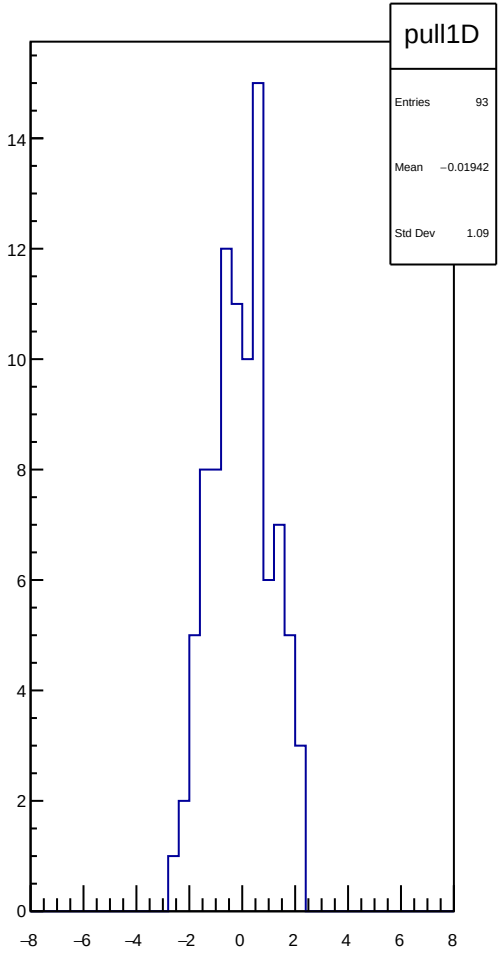

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3532 / 92
p0 3821 ± 2.825
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

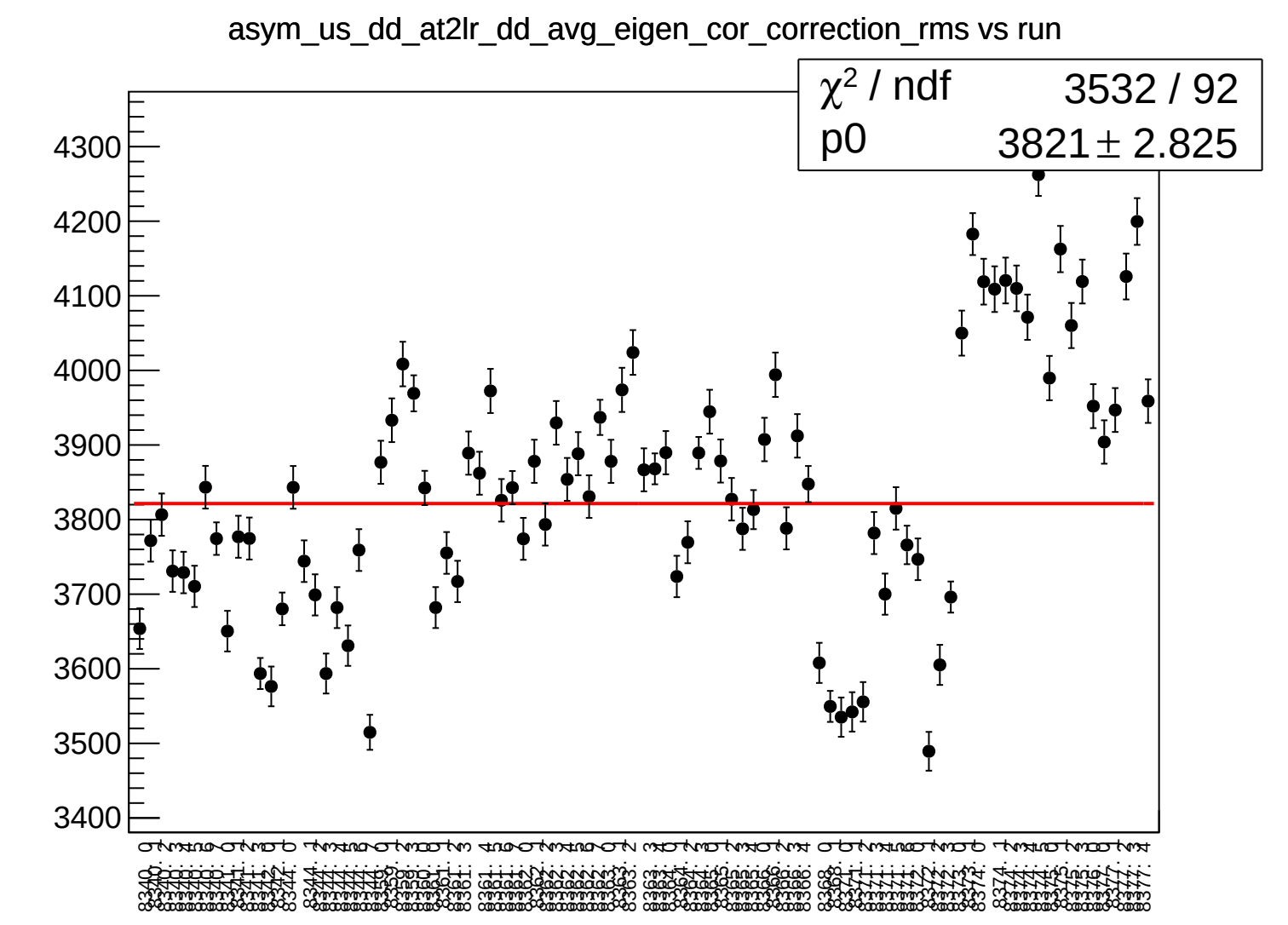

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.03 / 92
p0 −1420 ± 2342
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −355.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

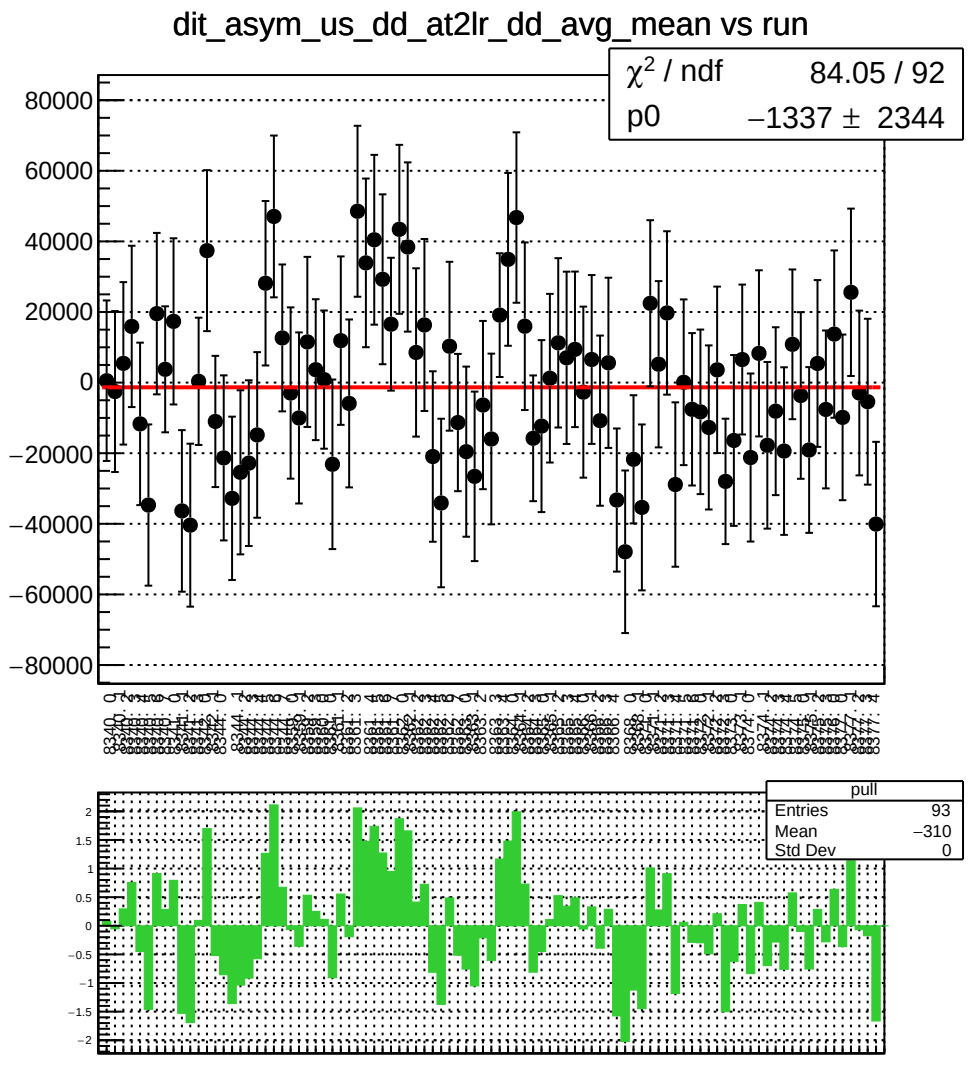

pull1D
Entries 93
Mean 0.008949
Std Dev 0.9505
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

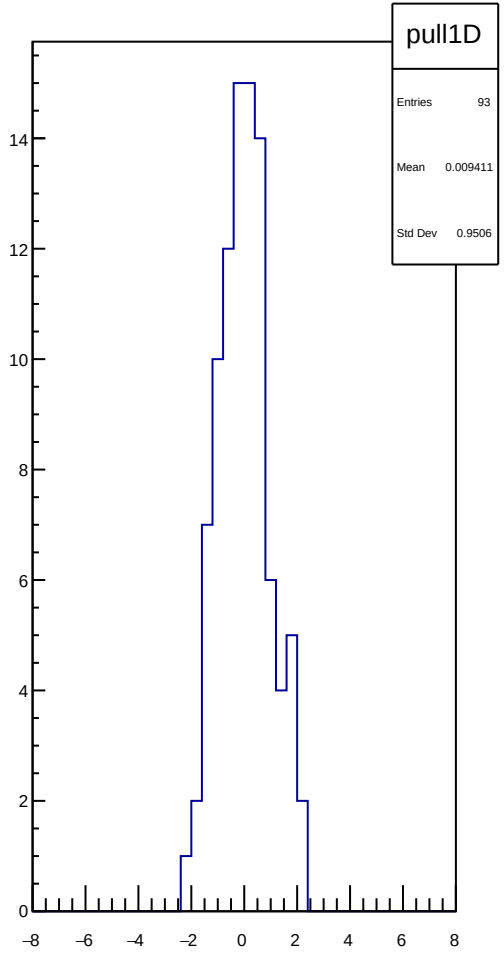

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 715.2 / 92
p0 2242 ± 1.656
2350
2300
2250
2200
2150

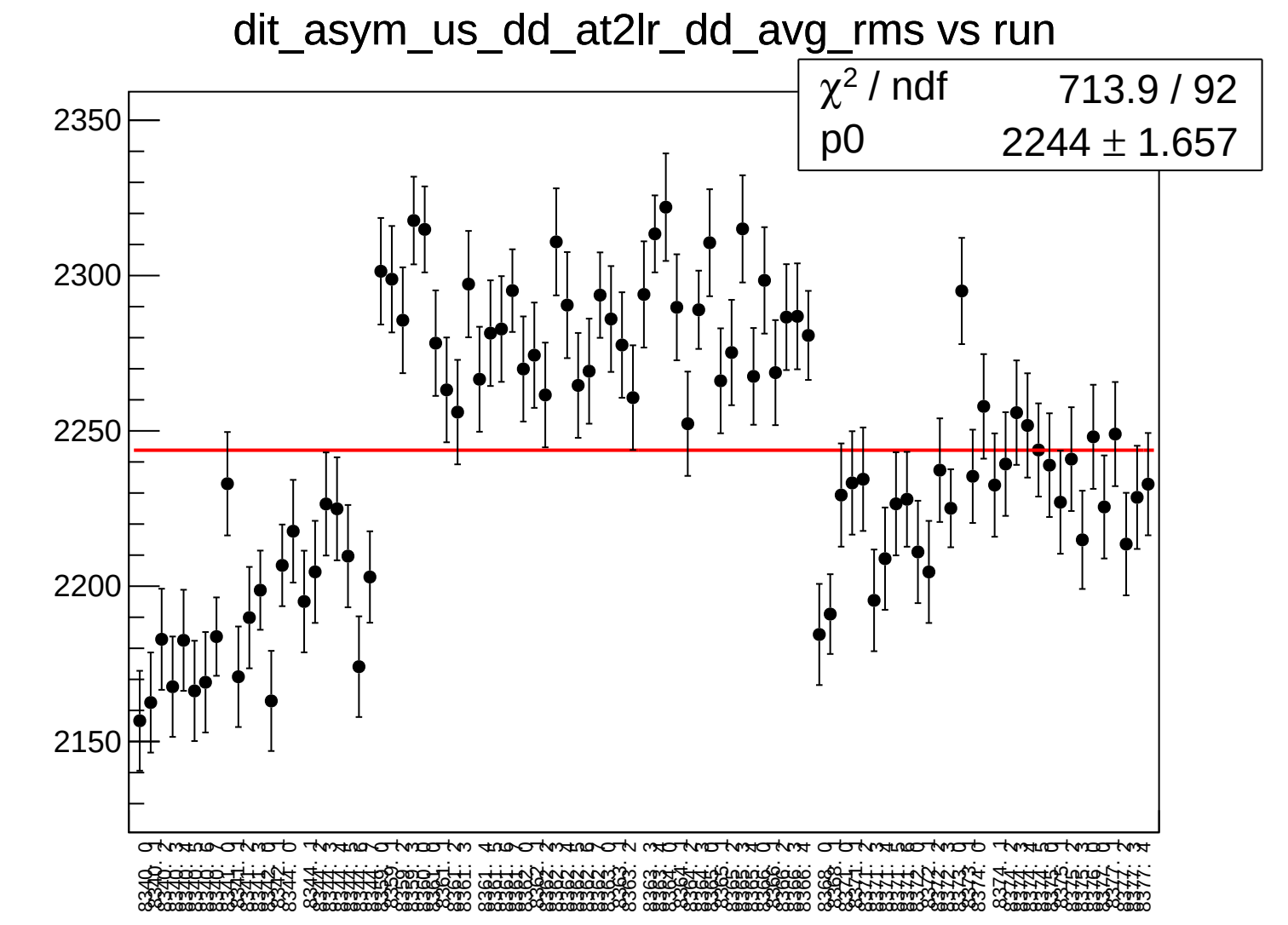

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −3643 ± 3995
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −207
Std Dev 0
2
1
0
−1
−2

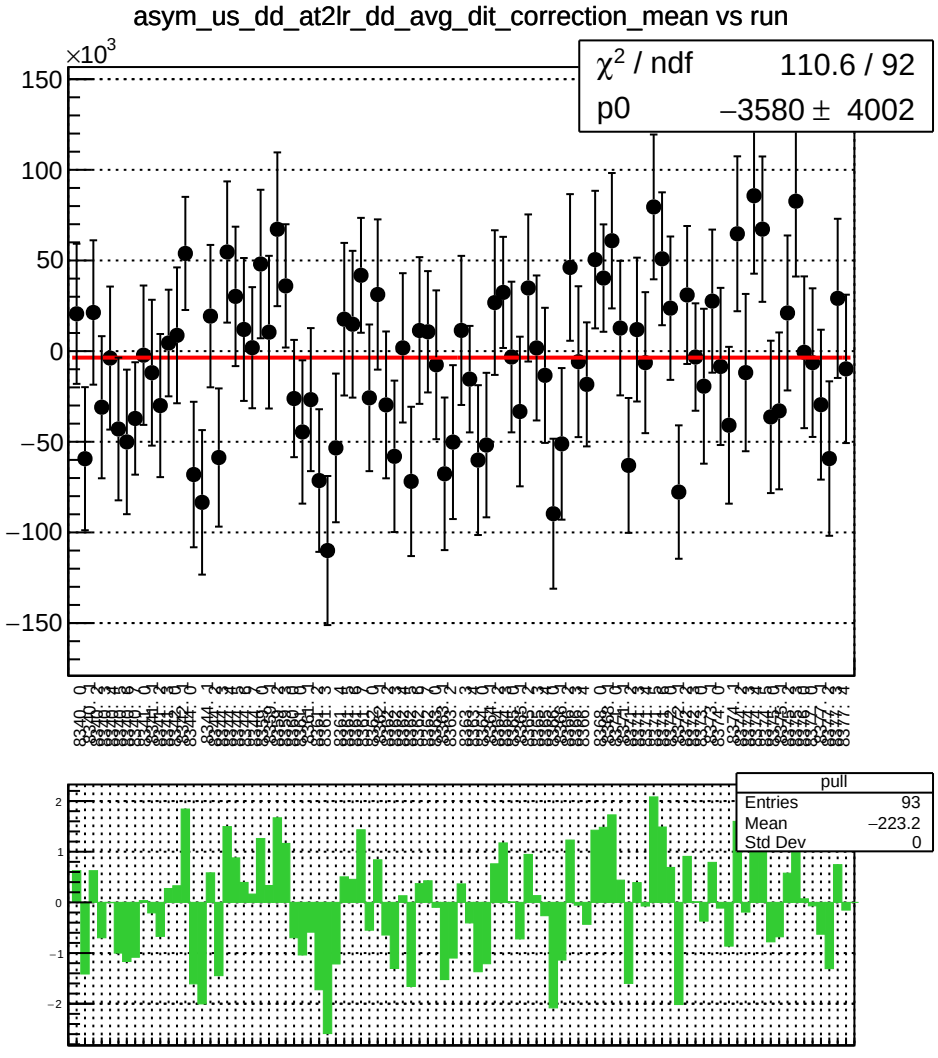

pull1D
Entries 93
Mean −0.01942
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

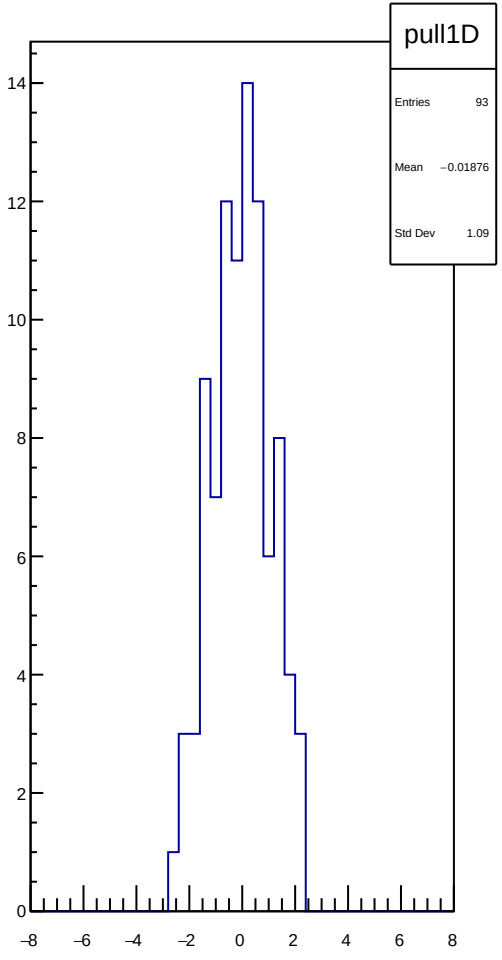

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3532 / 92
p0 3821 ± 2.825
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

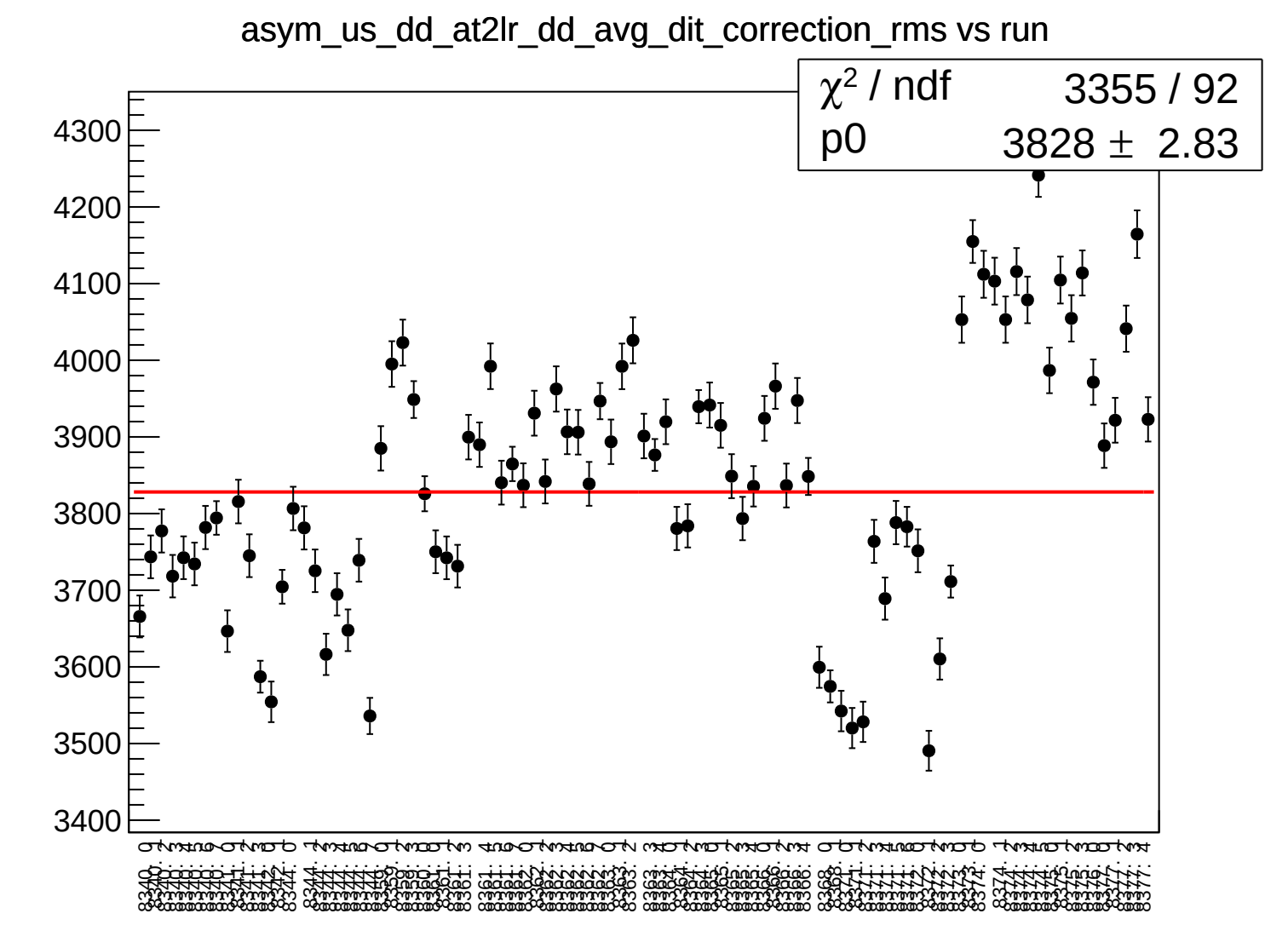

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.05 / 92
p0 −1337 ± 2344
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −310
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

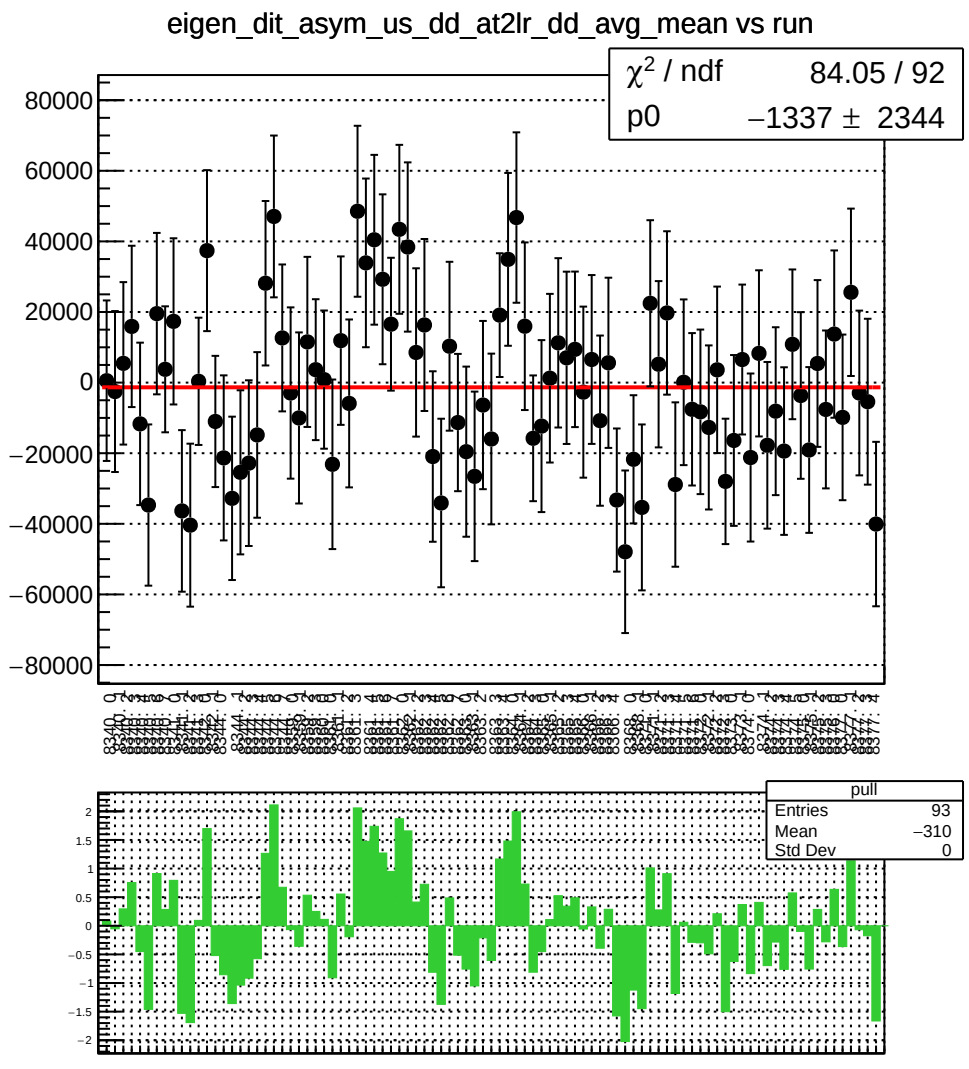

pull1D
Entries 93
Mean 0.009411
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

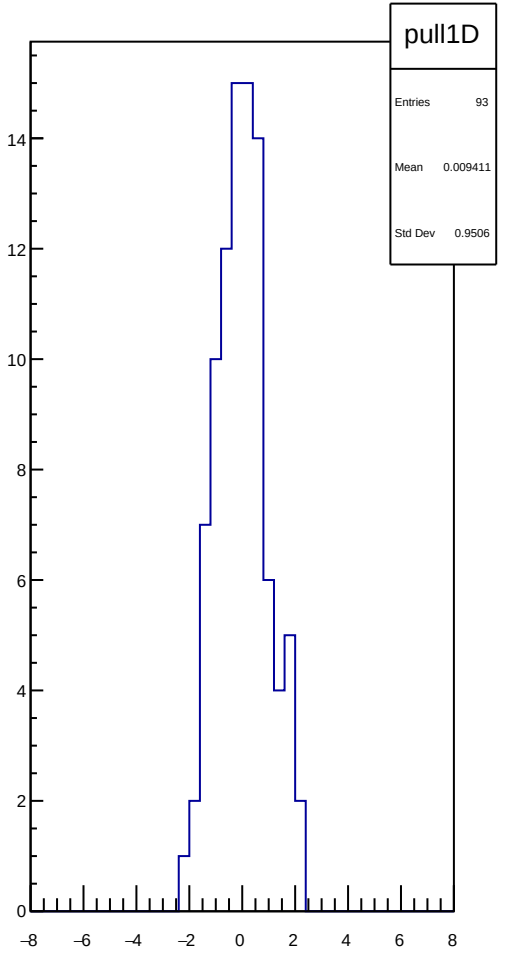

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 713.9 / 92
p0 2244 ± 1.657
2350
2300
2250
2200
2150

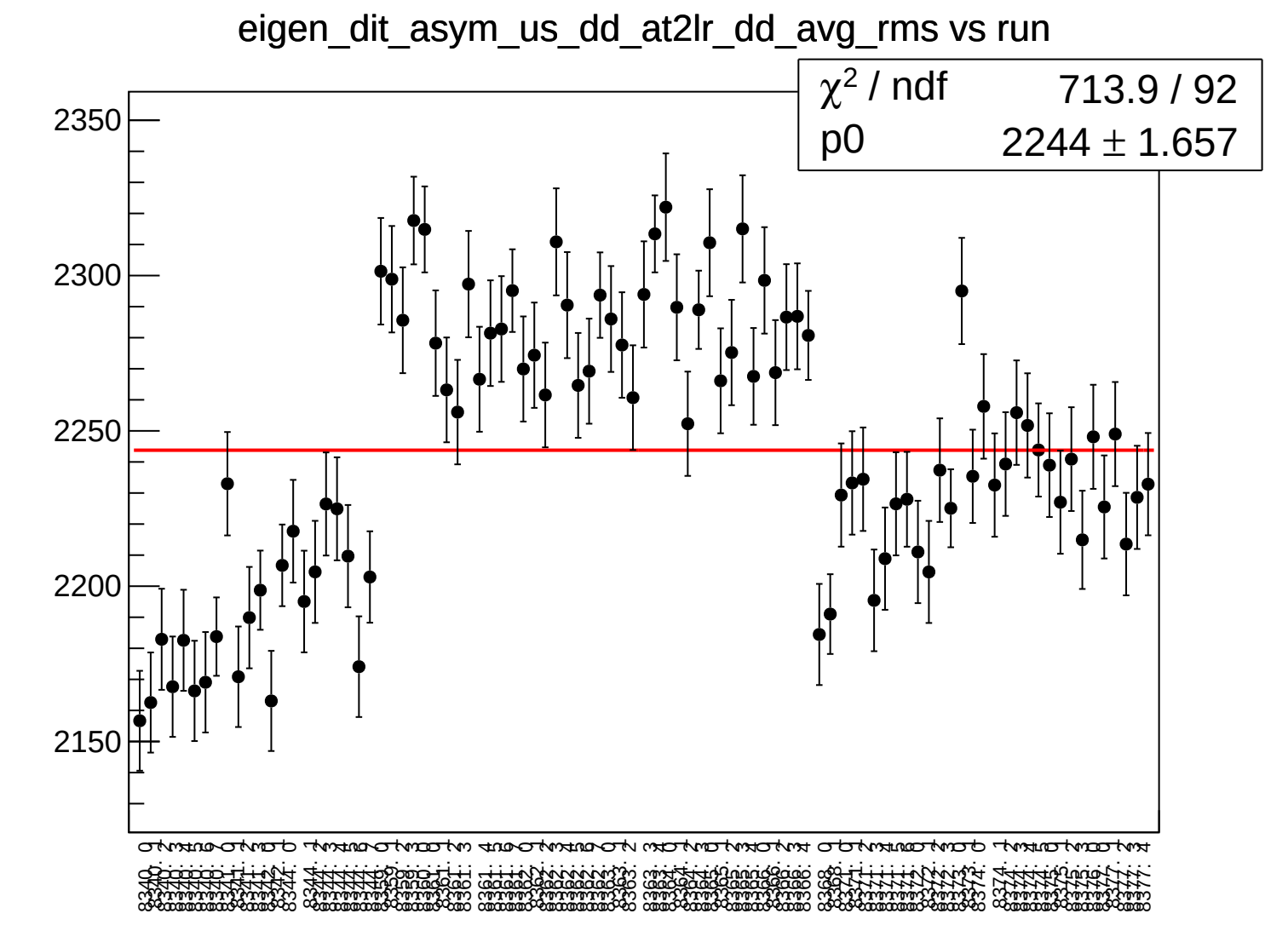

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −3580 ± 4002
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −223.2
Std Dev 0
2
1
0
−1
−2

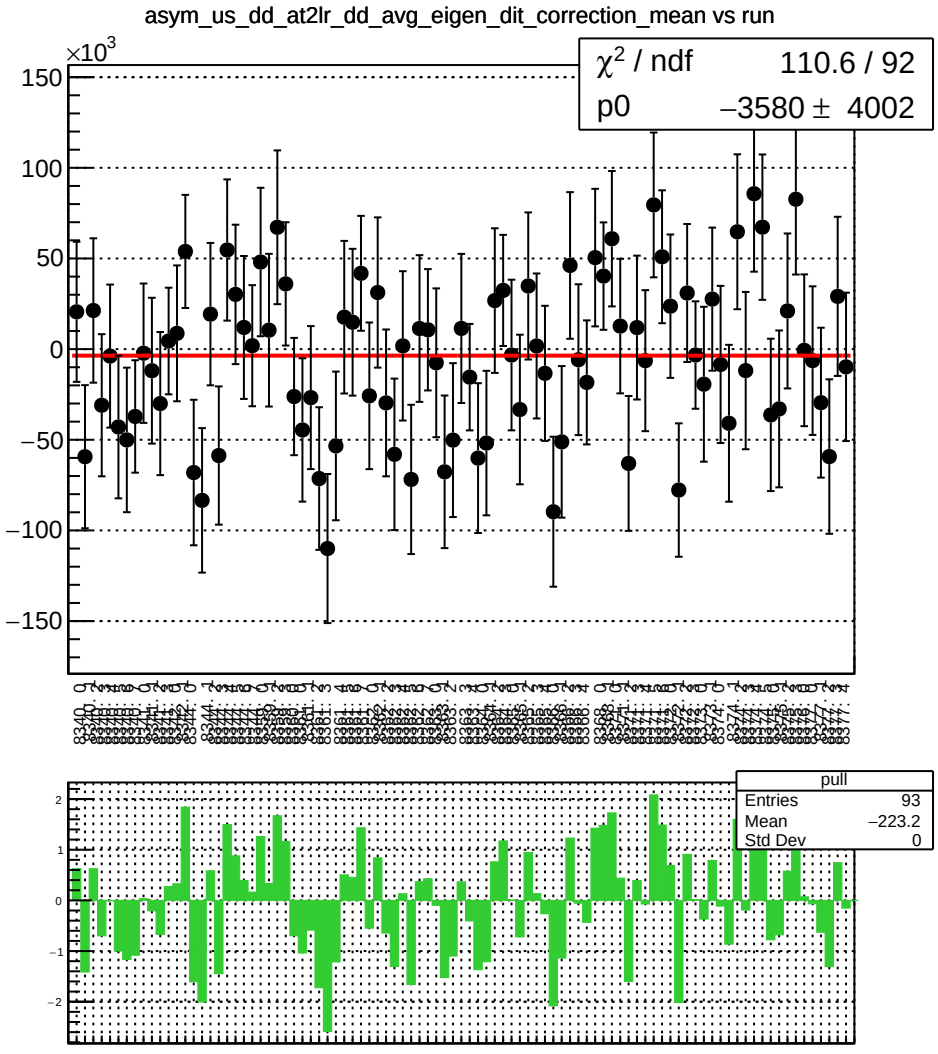

pull1D
Entries 93
Mean −0.01876
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

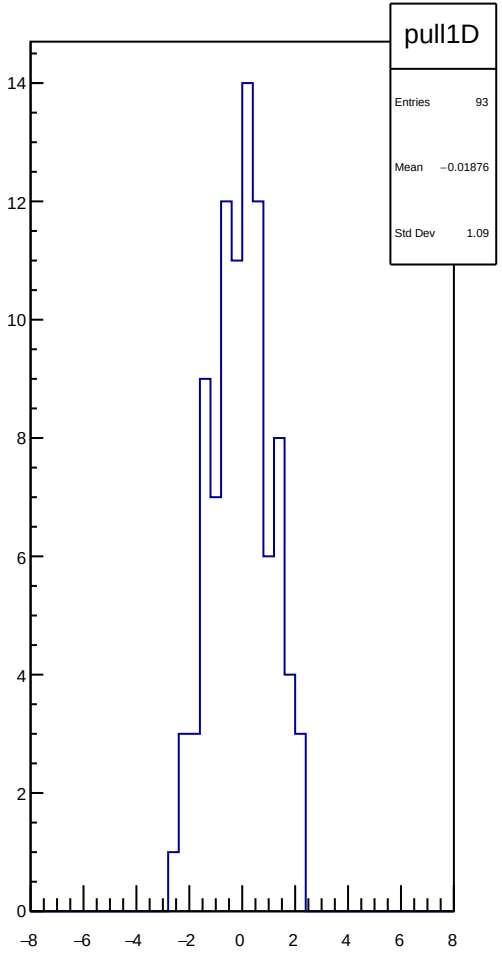

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3355 / 92
p0 3828 ± 2.83
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

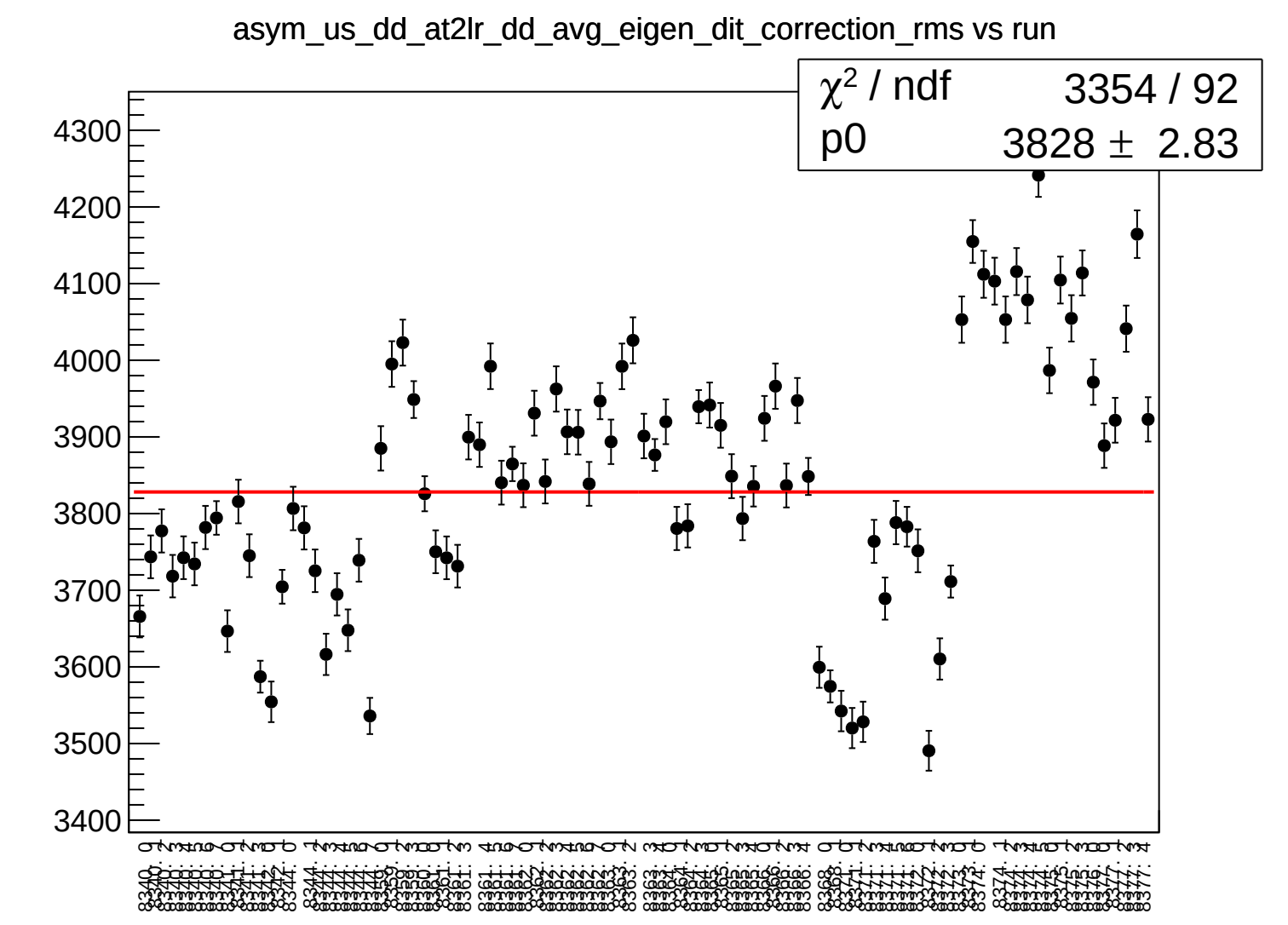

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 84.05 / 92
p0 −1337 ± 2344
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −310
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

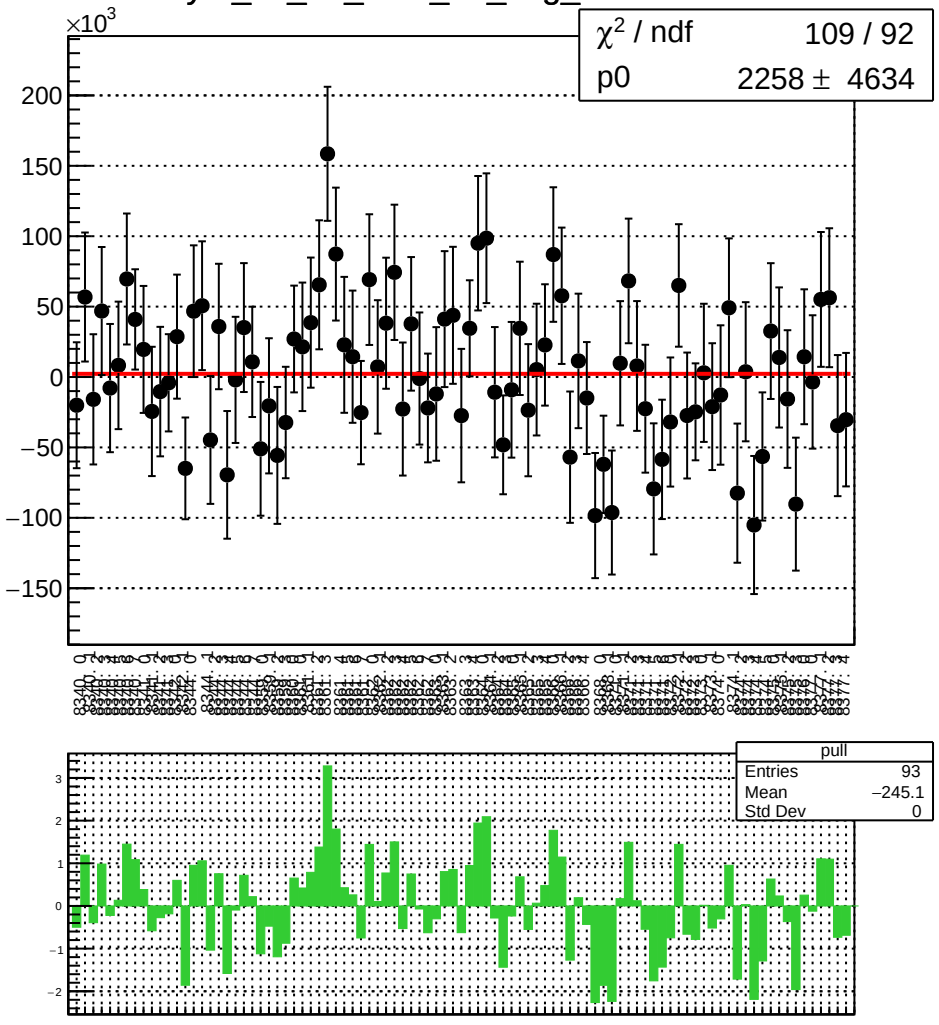

pull1D
Entries 93
Mean 0.009411
Std Dev 0.9506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

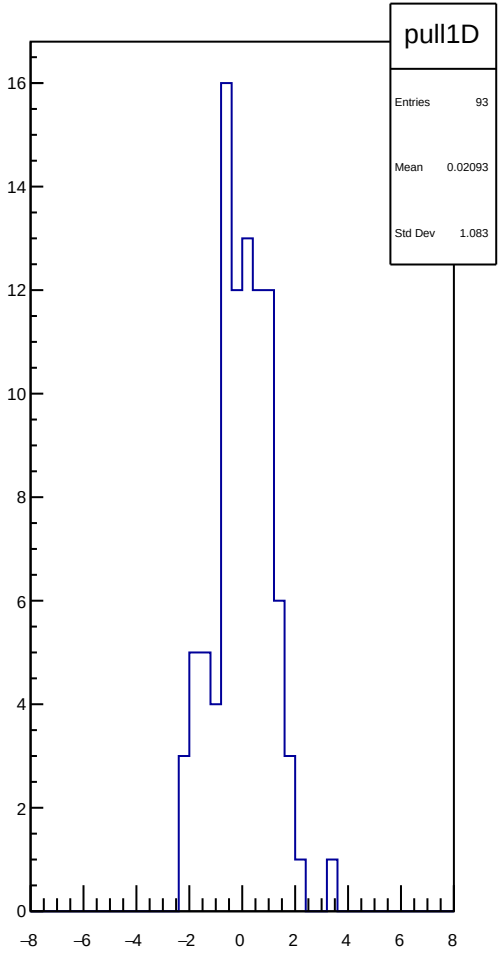

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 713.9 / 92
p0 2244 ± 1.657
2350
2300
2250
2200
2150

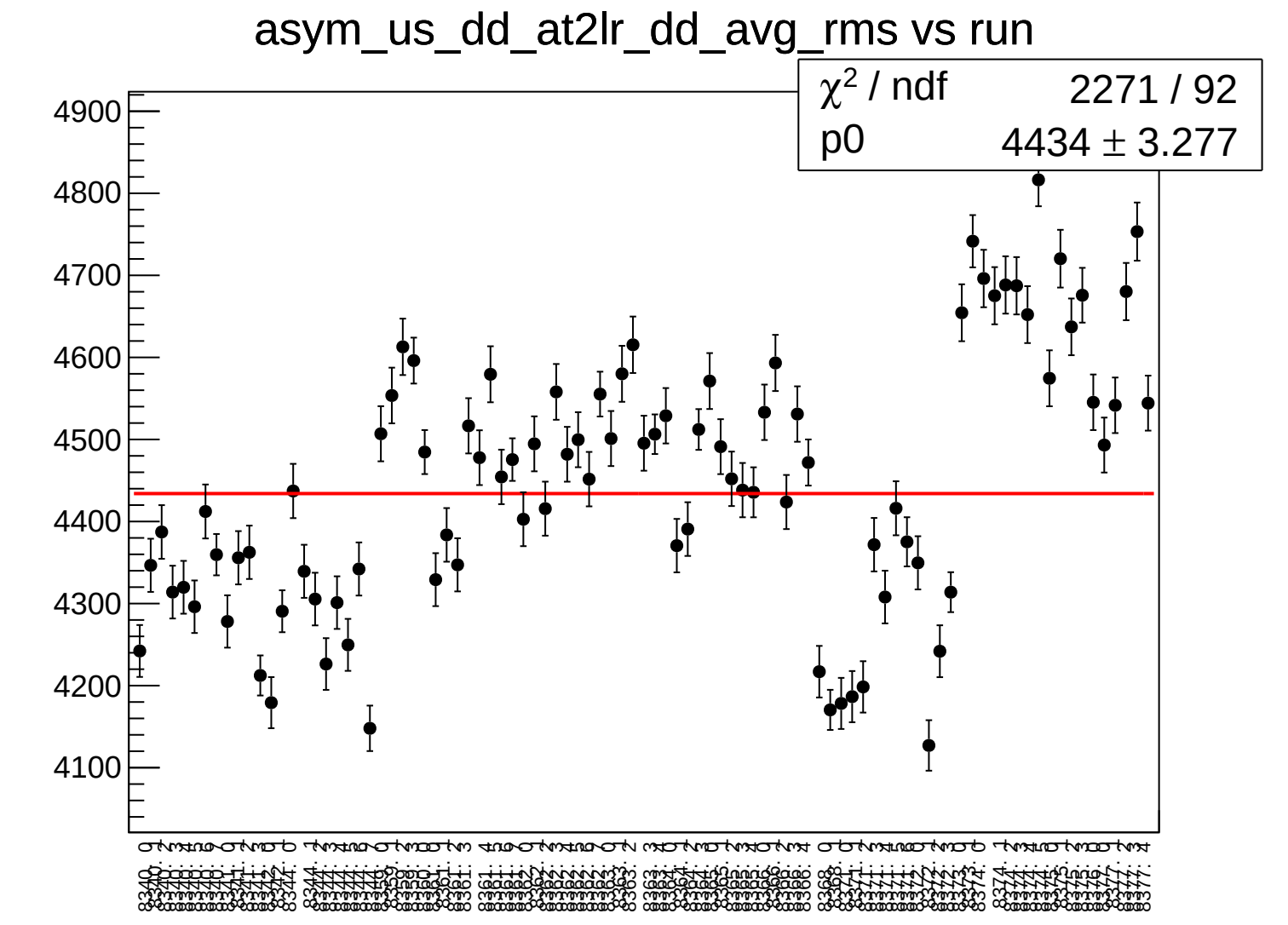

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −3580 ± 4002
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −223.2
Std Dev 0
2
1
0
−1
−2

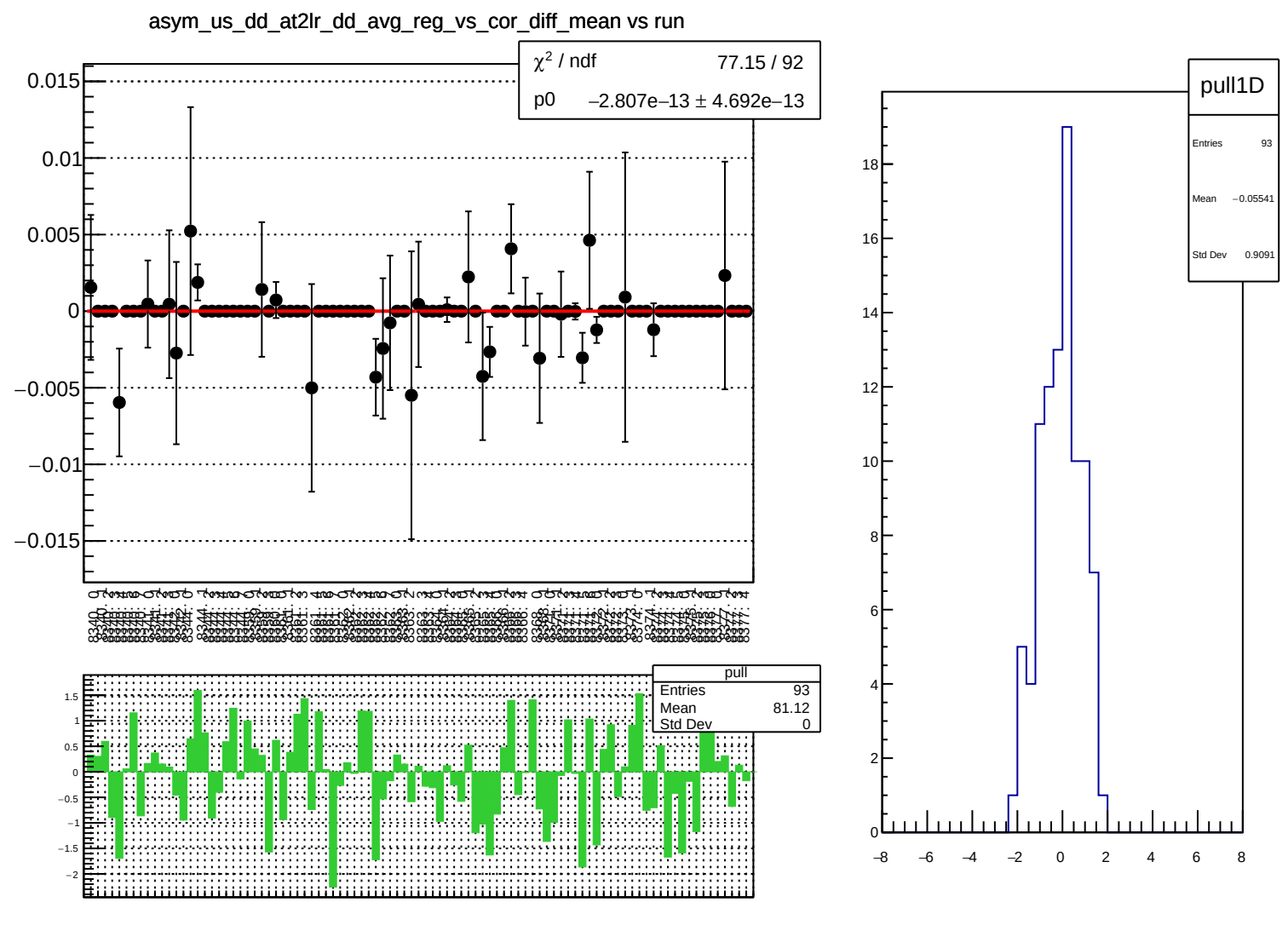

pull1D
Entries 93
Mean −0.01876
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

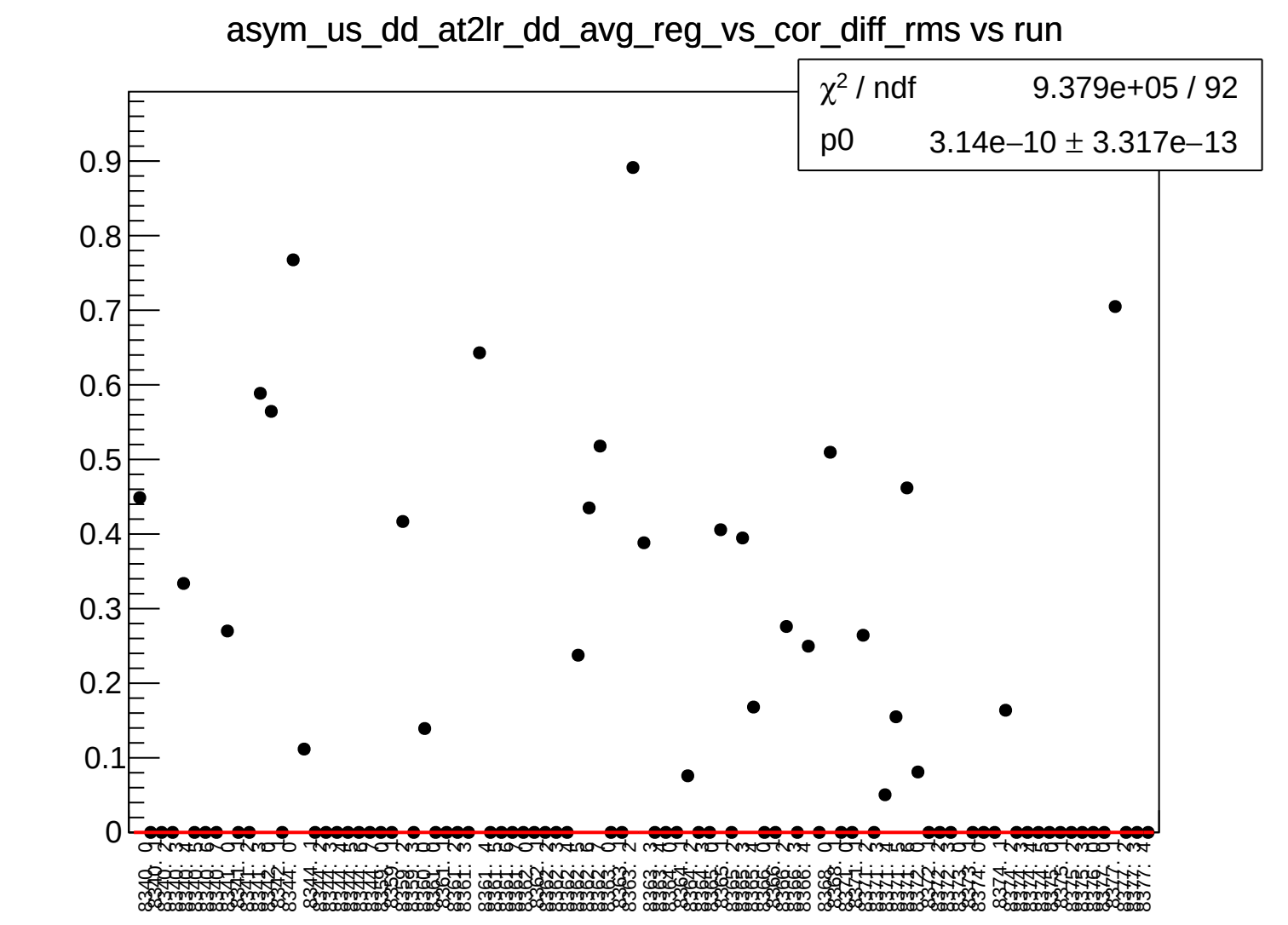

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3354 / 92
p0 3828 ± 2.83
4300
4200
4100
4000
3900
3800
3700
3600
3500
3400

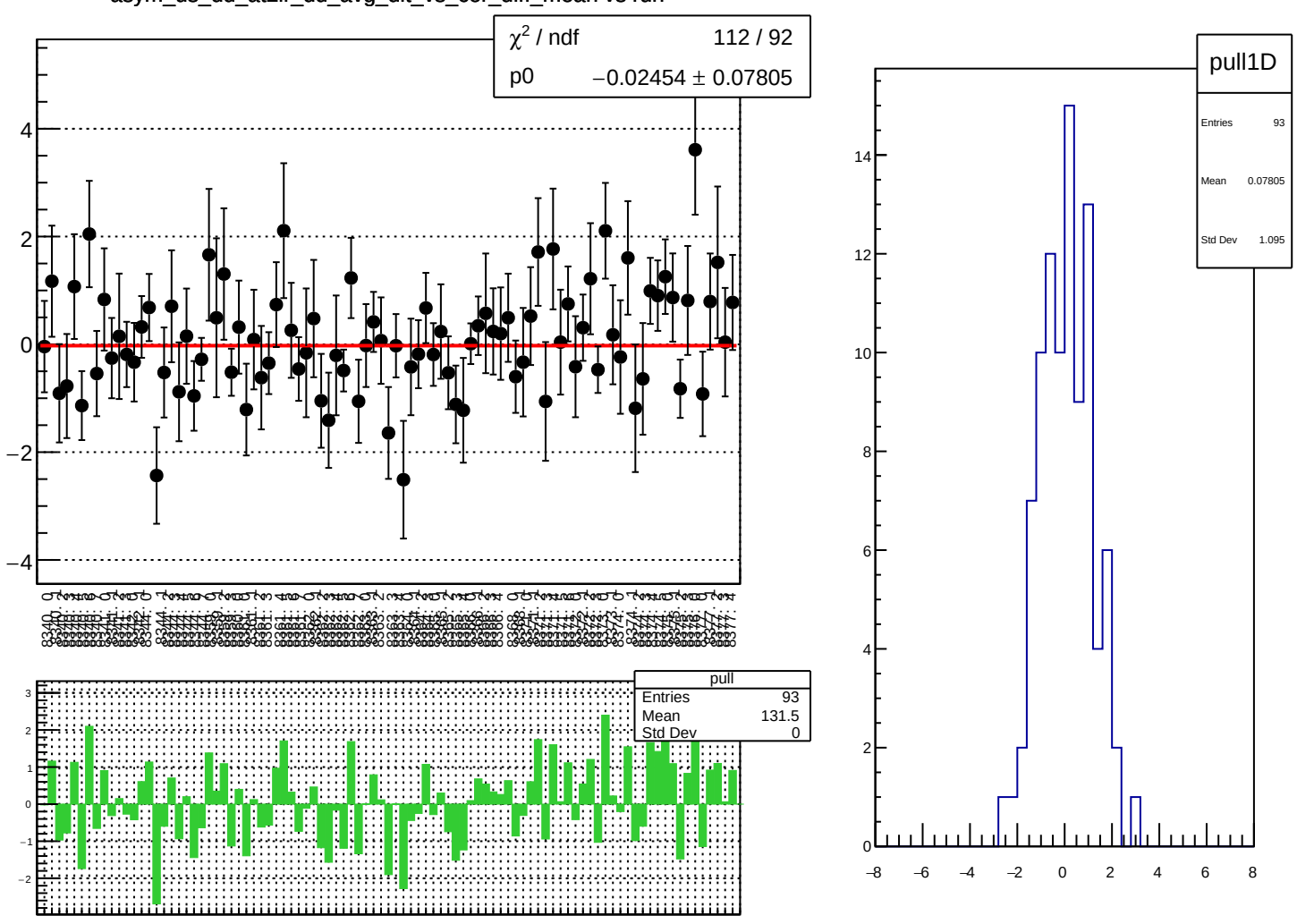

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 109 / 92
p0 2258 ± 4634
200
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −245.1
Std Dev 0
3
2
1
0
−1
−2

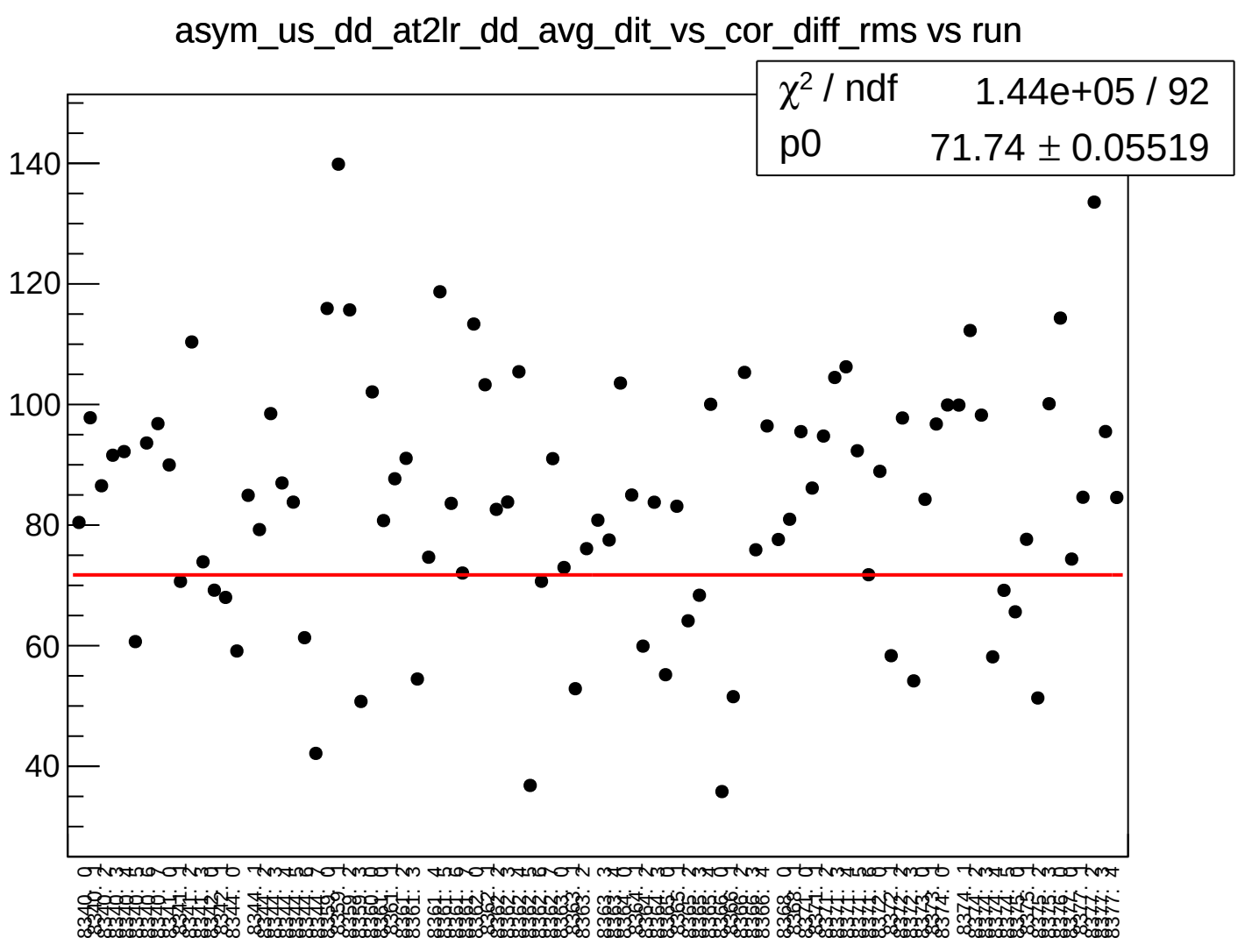

pull1D
Entries 93
Mean 0.02093
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 2271 / 92
p0 4434 ± 3.277
4900
4800
4700
4600
4500
4400
4300
4200
4100

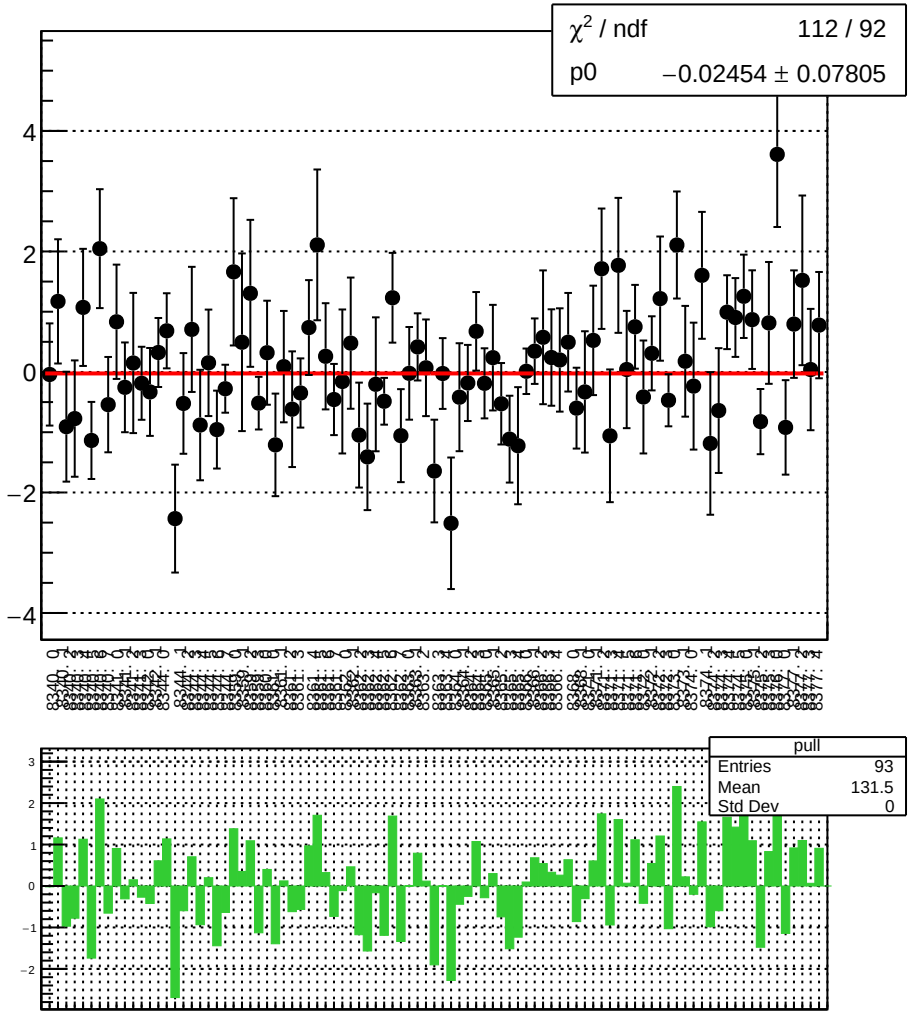

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.15 / 92
p0 −2.807e−13 ± 4.692e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 81.12
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.05541
Std Dev 0.9091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

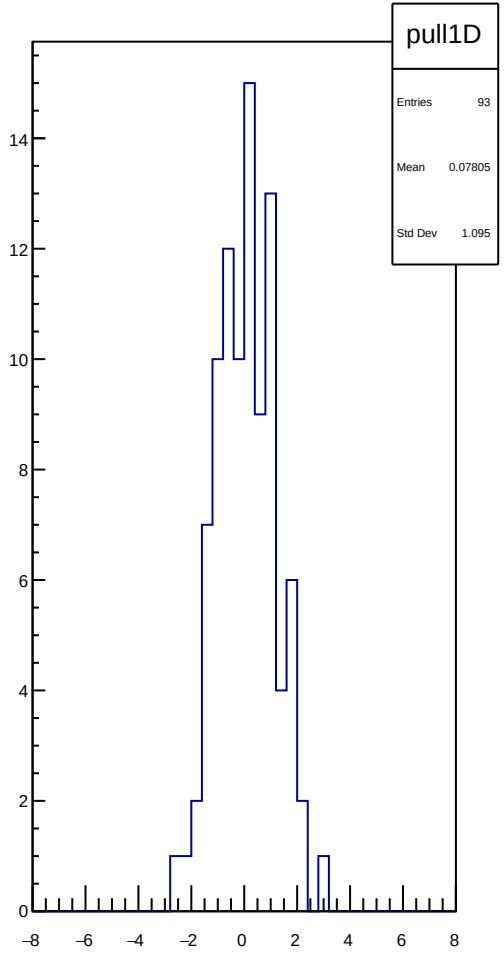

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.379e+05 / 92
p0 3.14e−10 ± 3.317e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

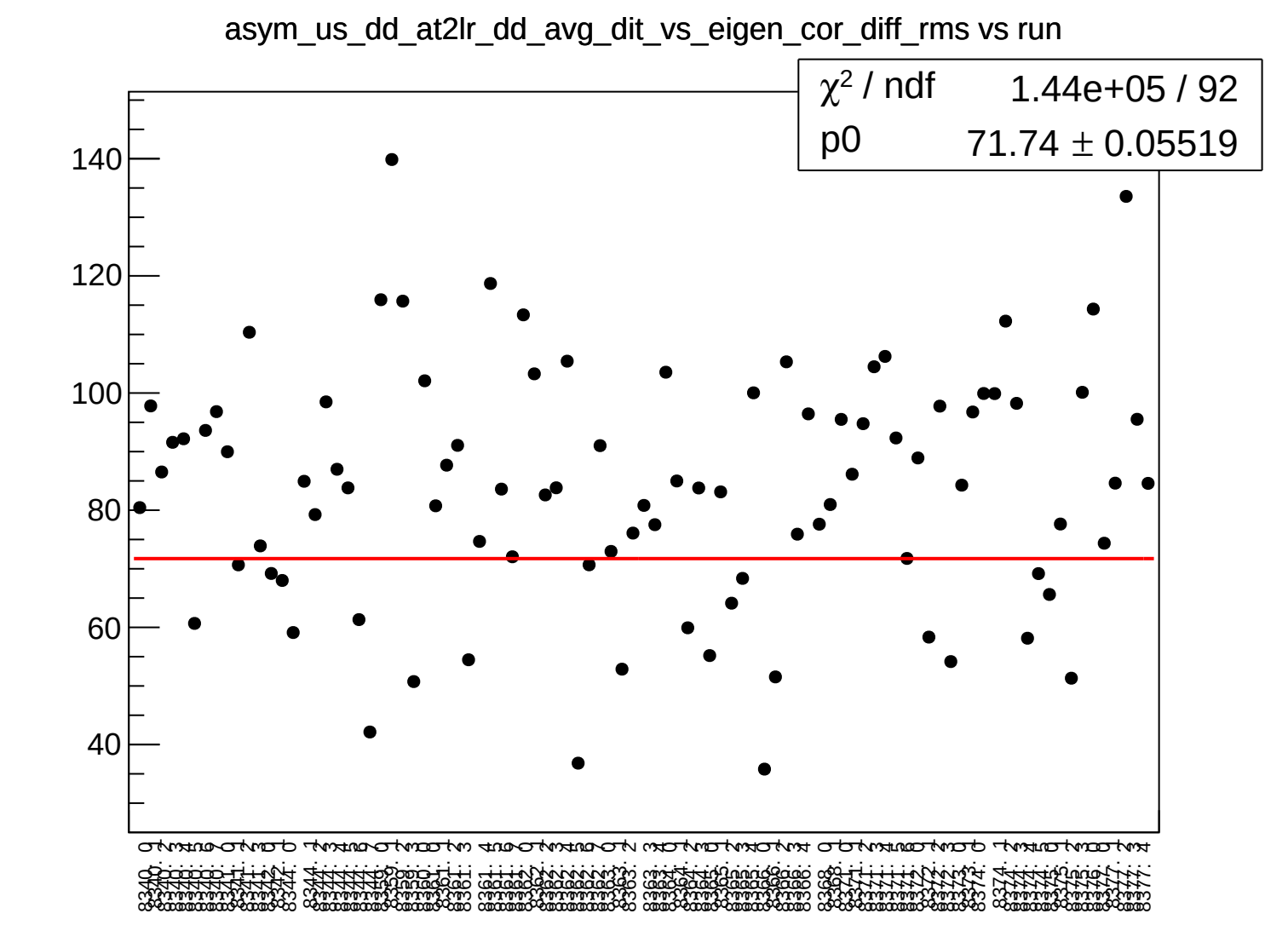

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112 / 92
p0 −0.02454 ± 0.07805
pull
Entries 93
Mean 131.5
Std Dev 0
pull1D
Entries 93
Mean 0.07805
Std Dev 1.095

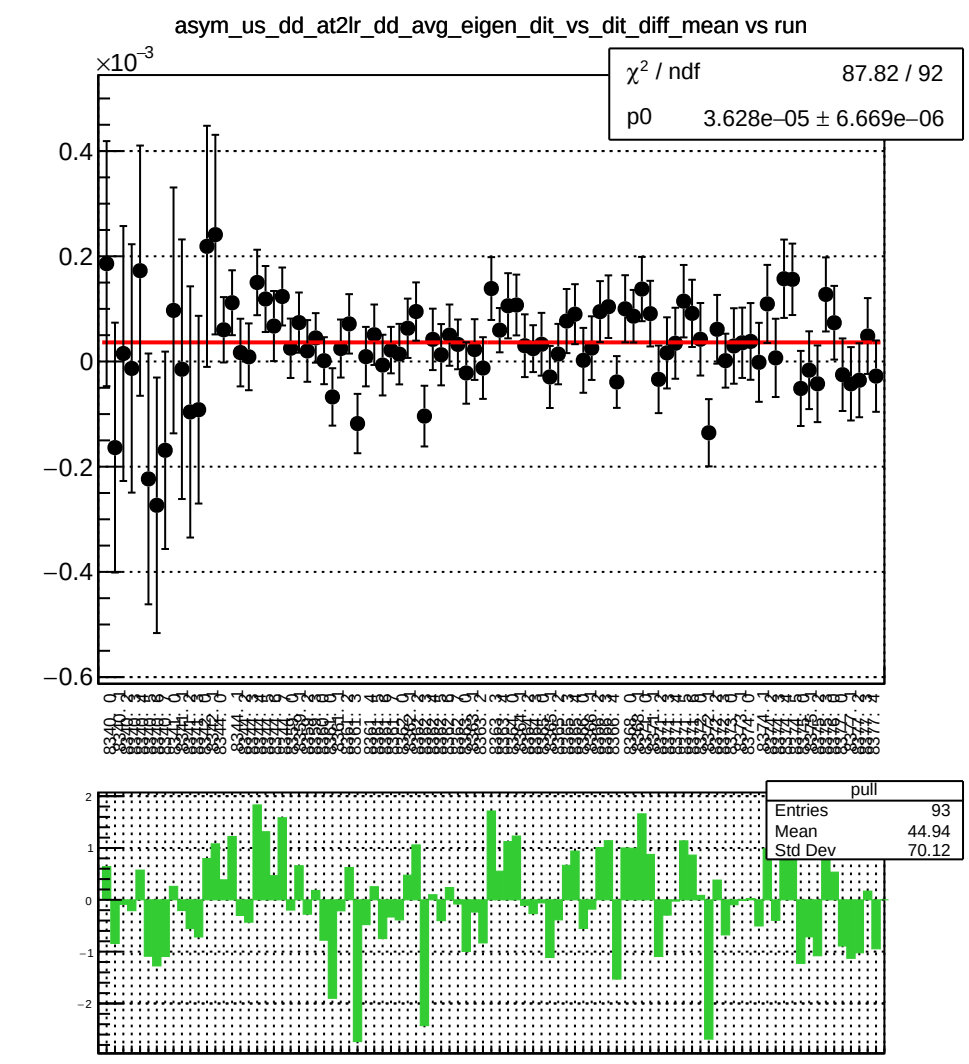

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 92
p0 71.74 ± 0.05519
140
120
100
80
60
40

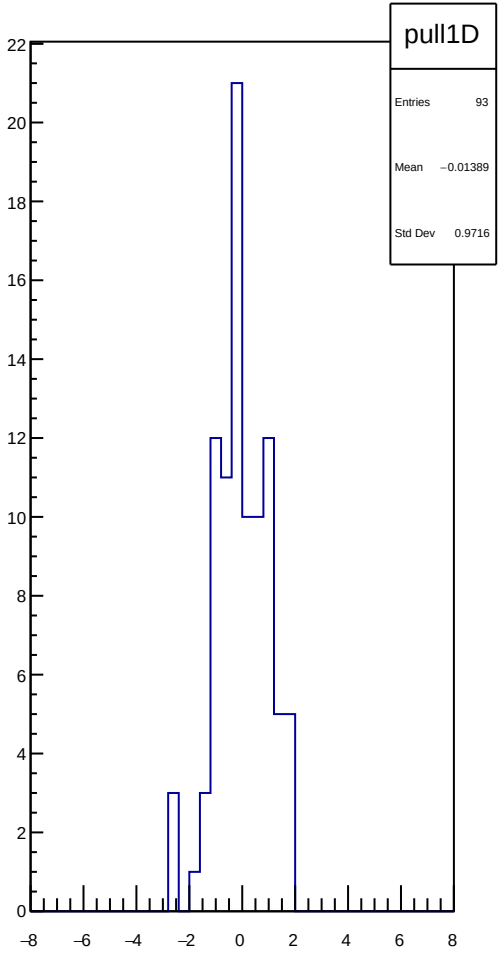
asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run

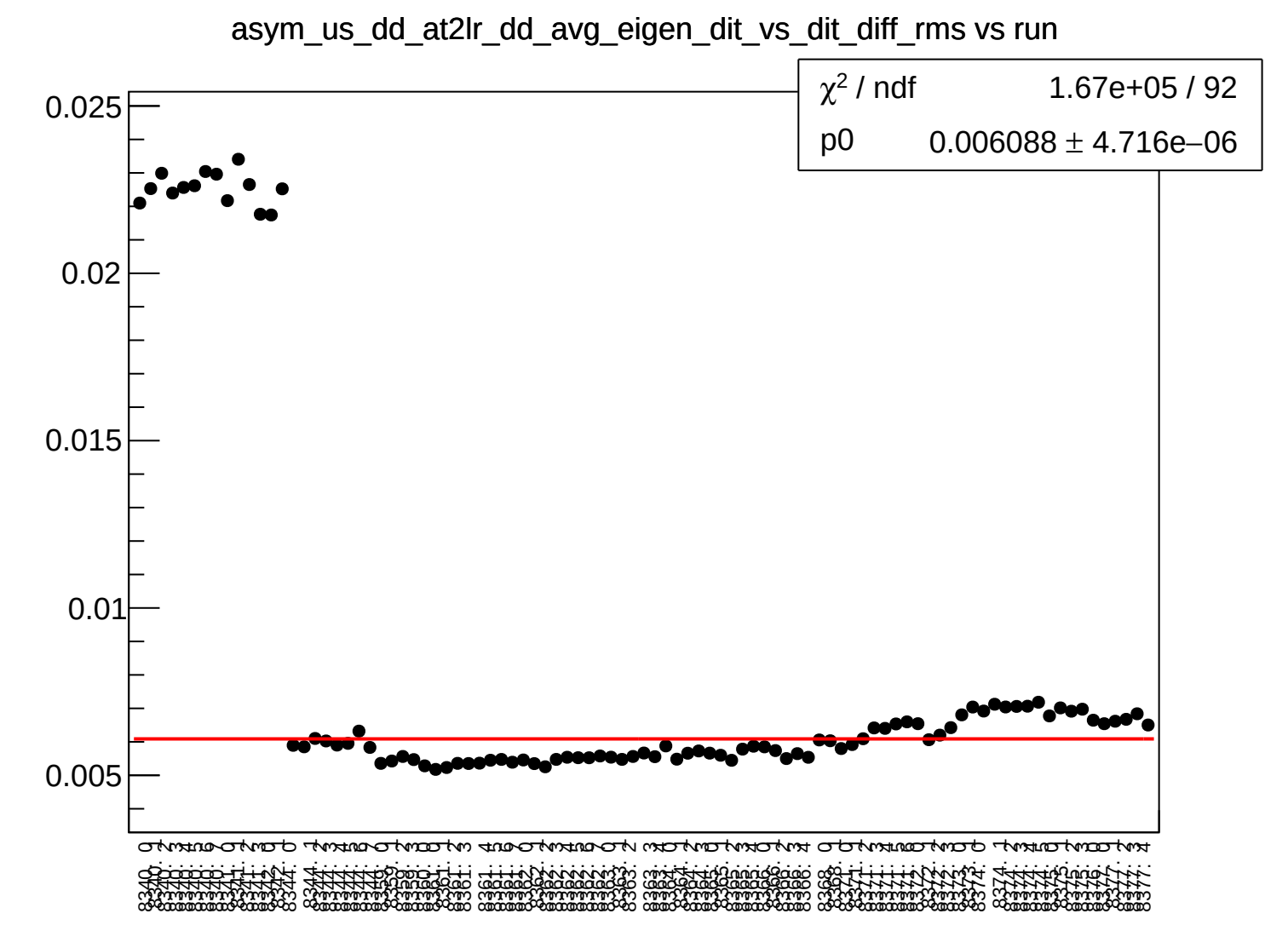




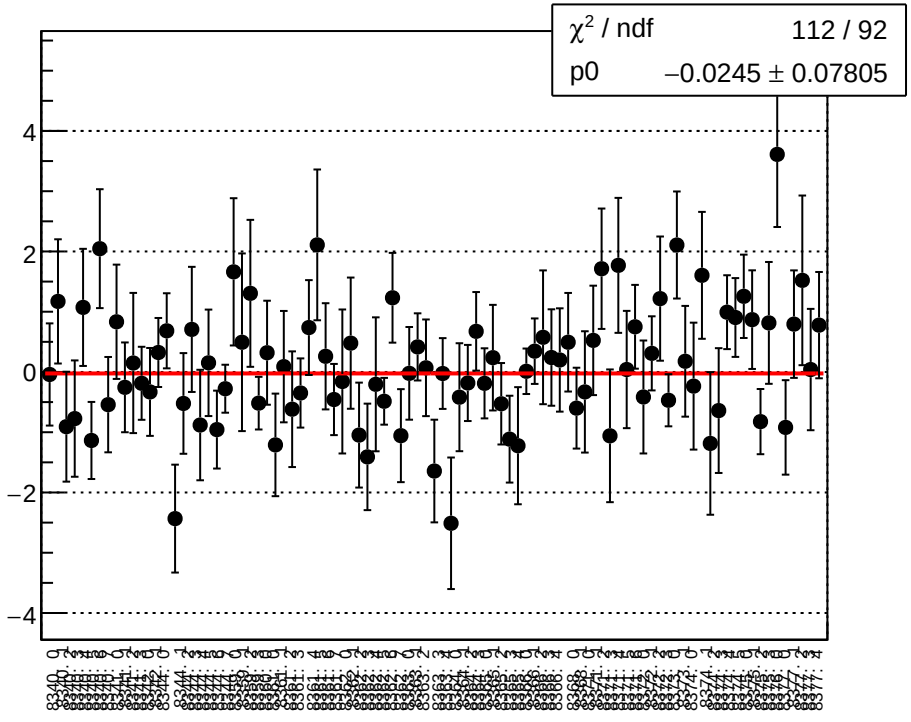

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 92
p0 71.74 ± 0.05519
140
120
100
80
60
40

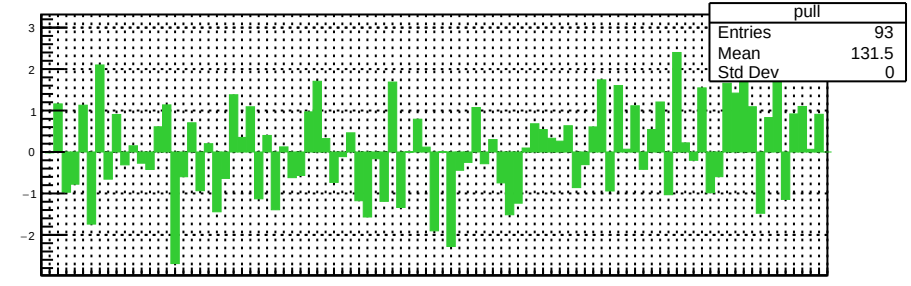

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.82 / 92
p0 3.628e−05 ± 6.669e−06
pull
Entries 93
Mean 44.94
Std Dev 70.12

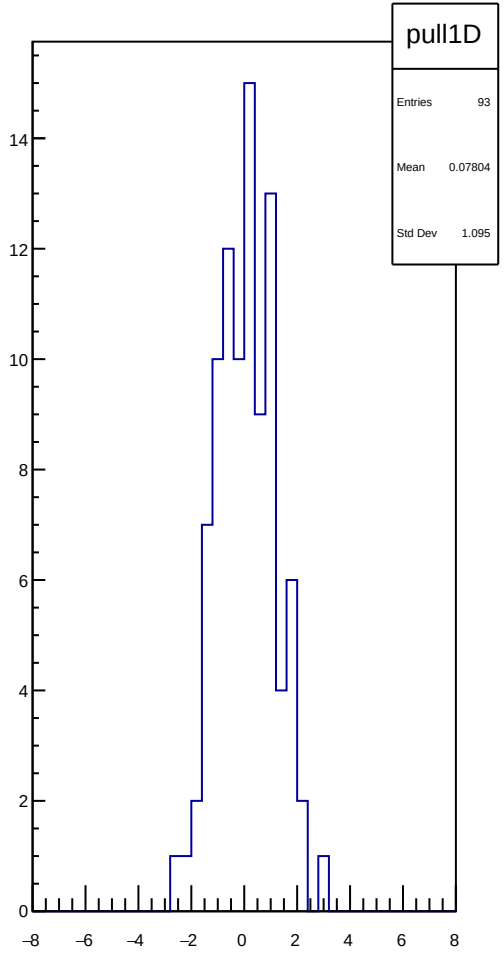

pull1D
Entries 93
Mean −0.01389
Std Dev 0.9716

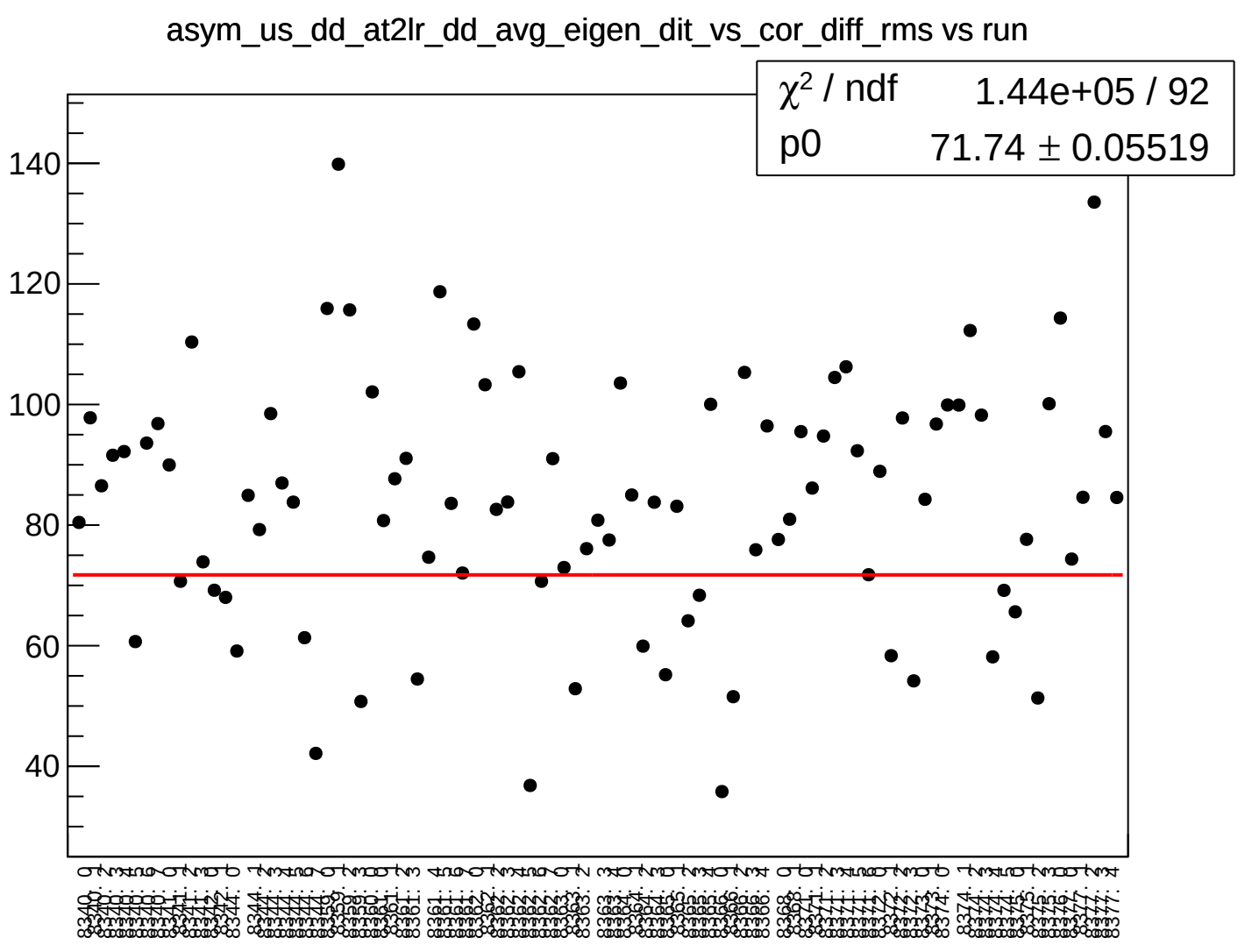

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.67e+05 / 92
p0 0.006088 ± 4.716e−06
0.025
0.02
0.015
0.01
0.005

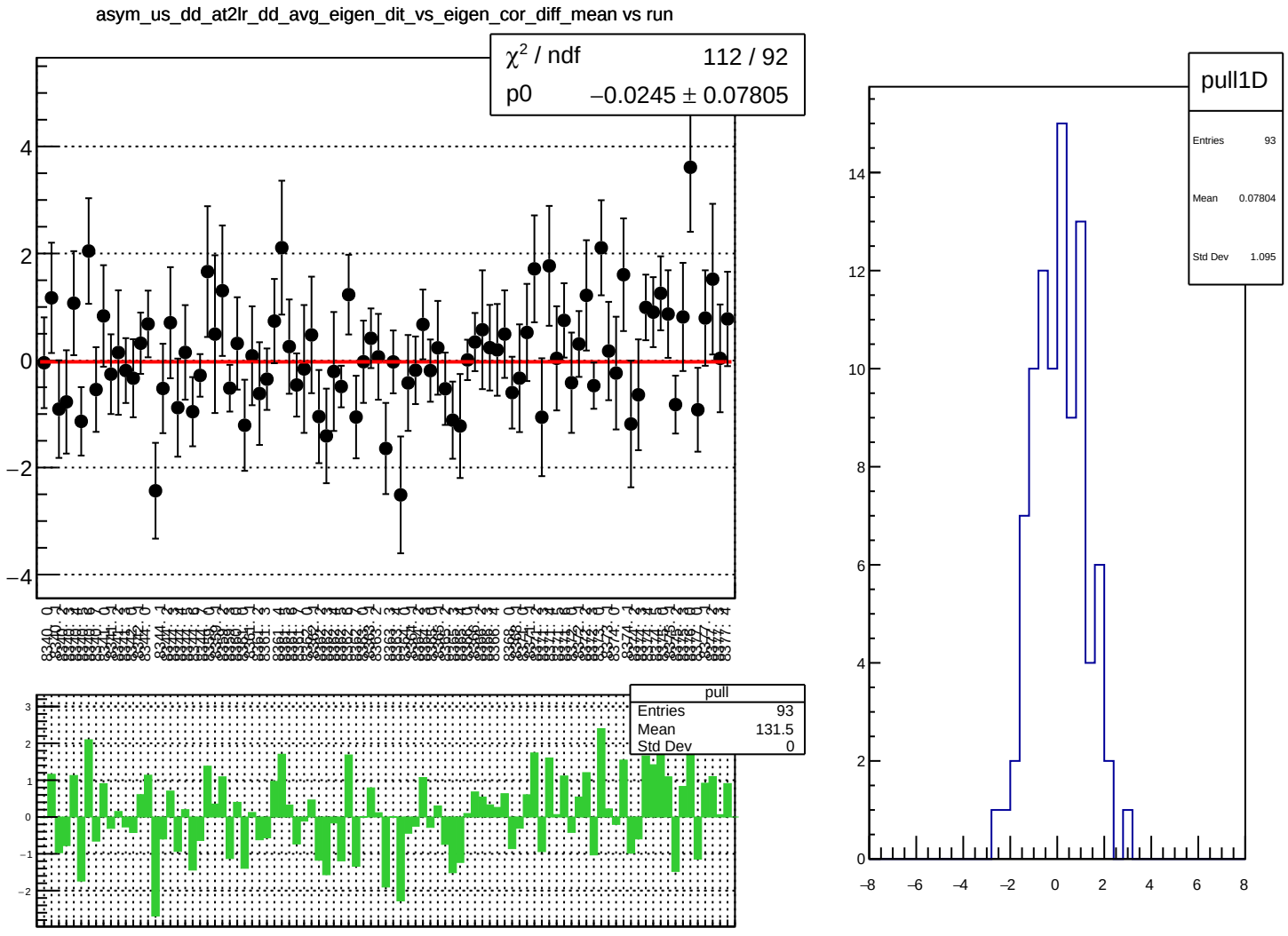
asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run

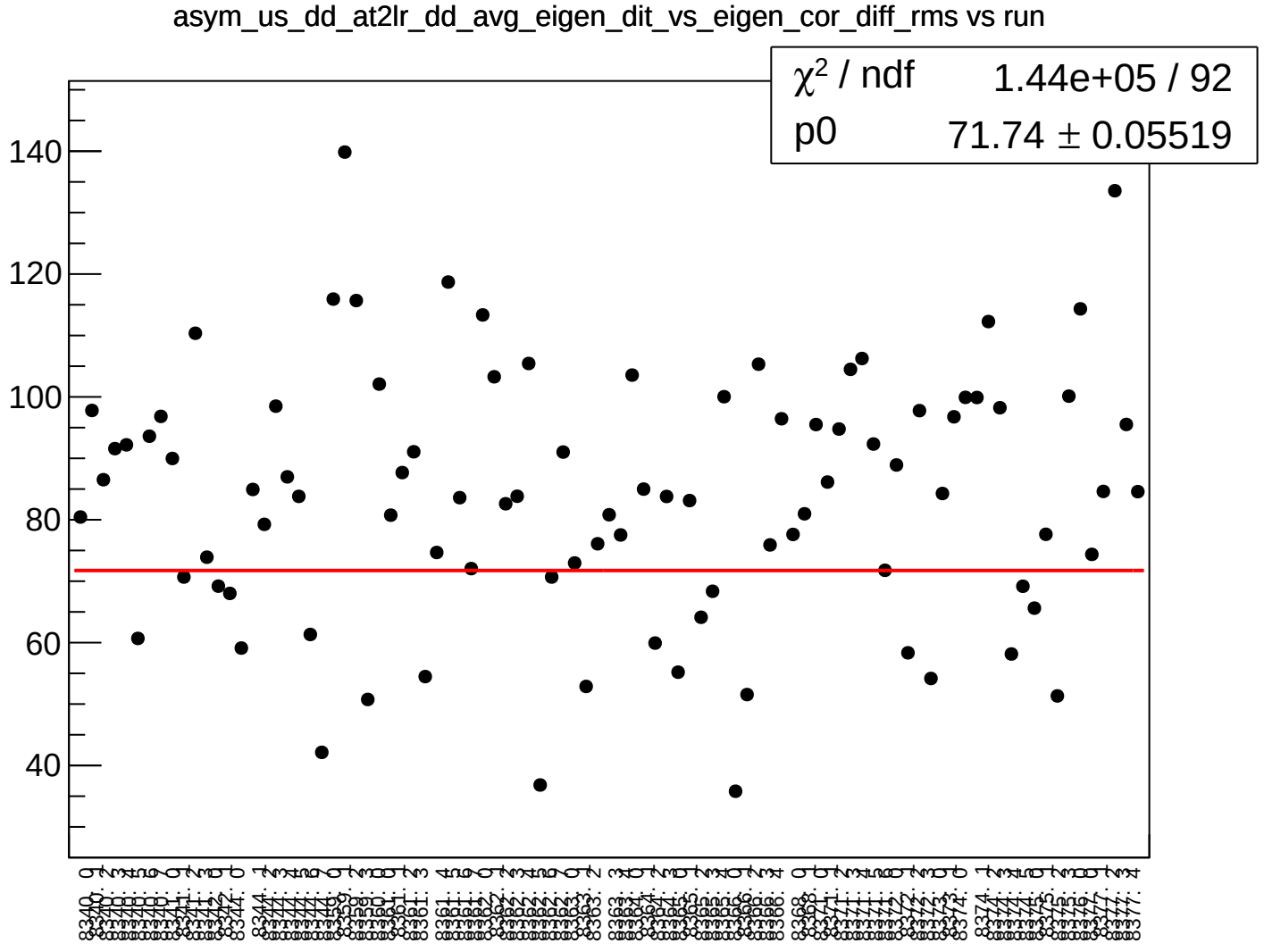


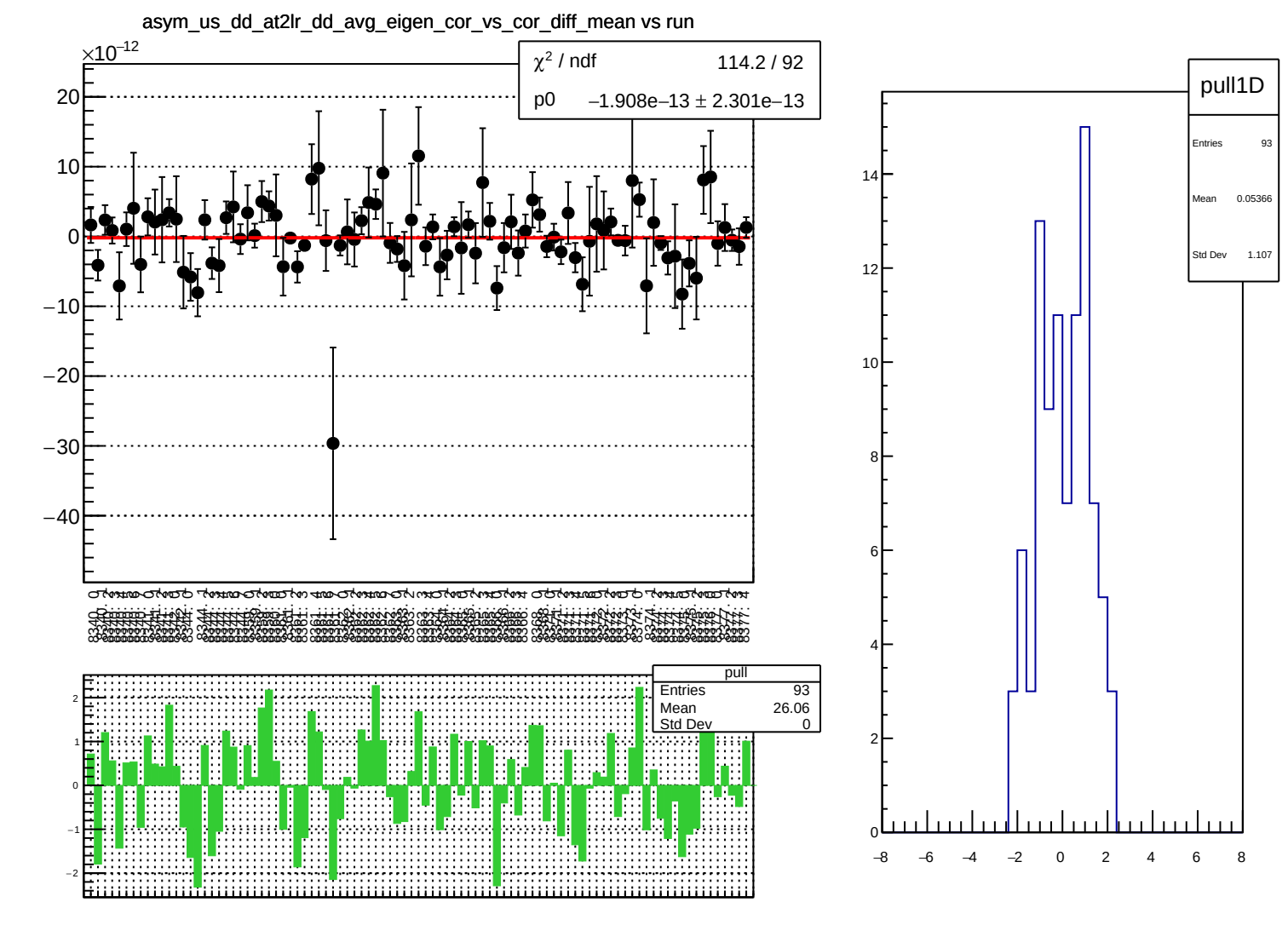


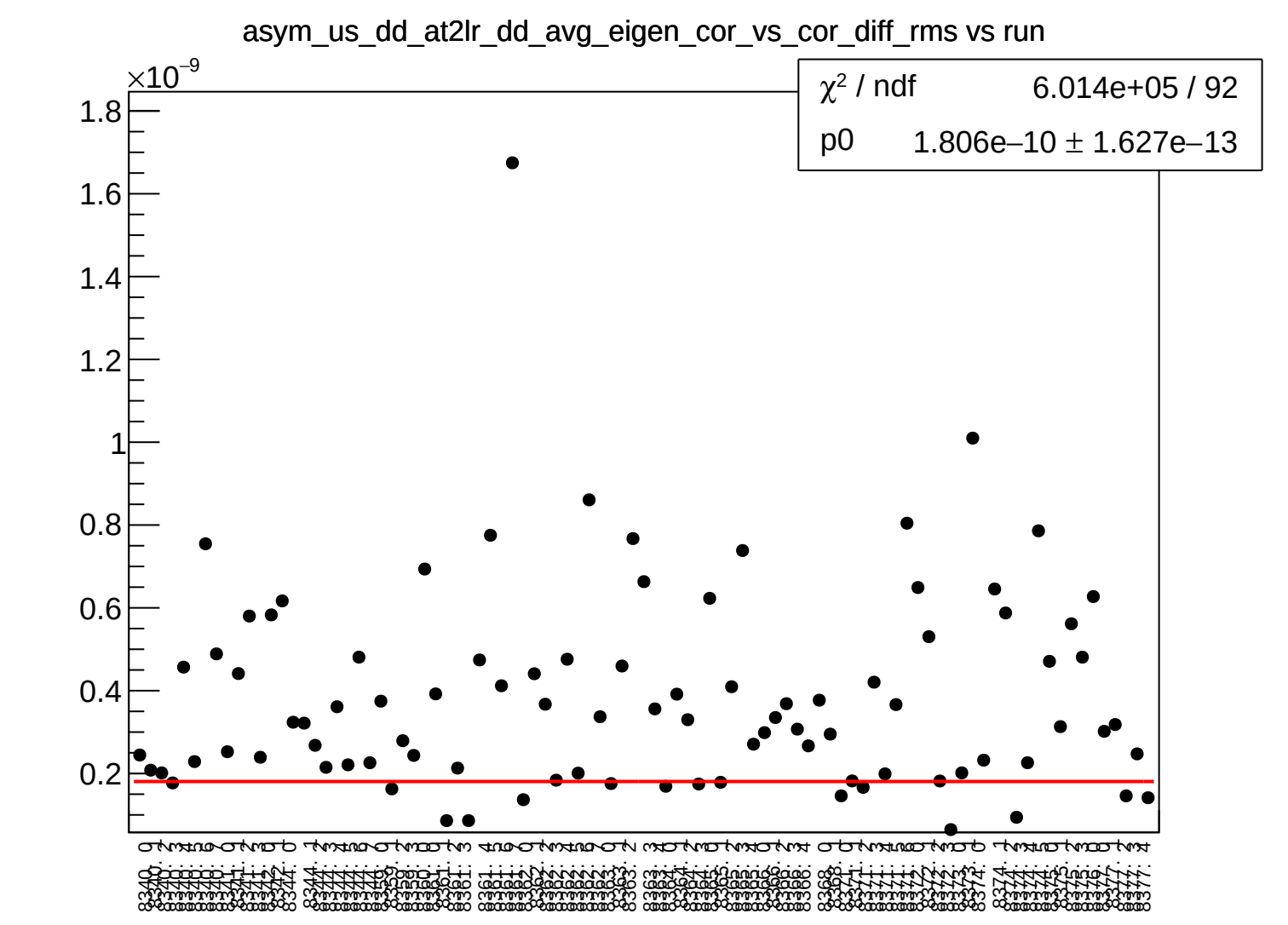


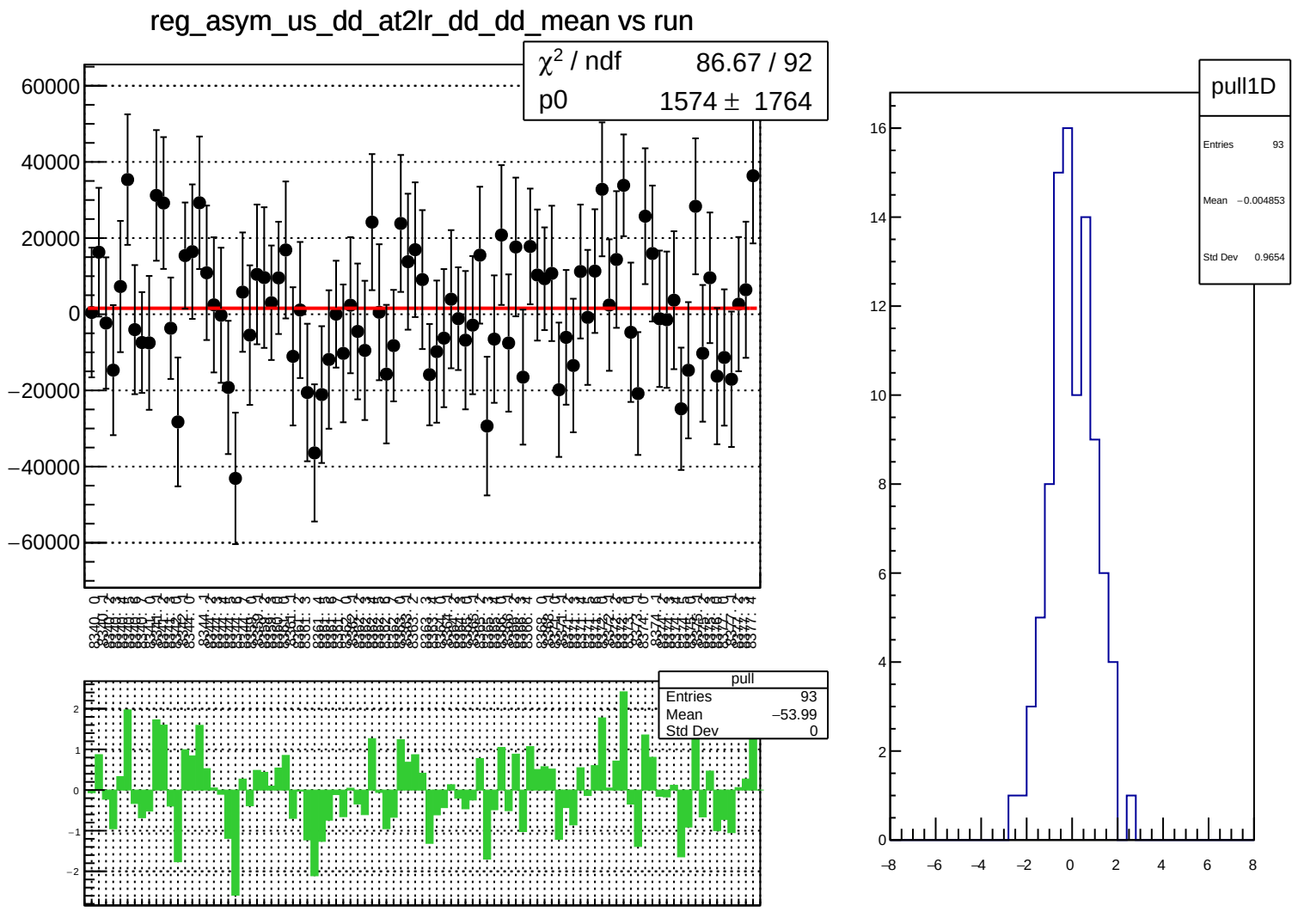

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 92
p0 71.74 ± 0.05519
140
120
100
80
60
40

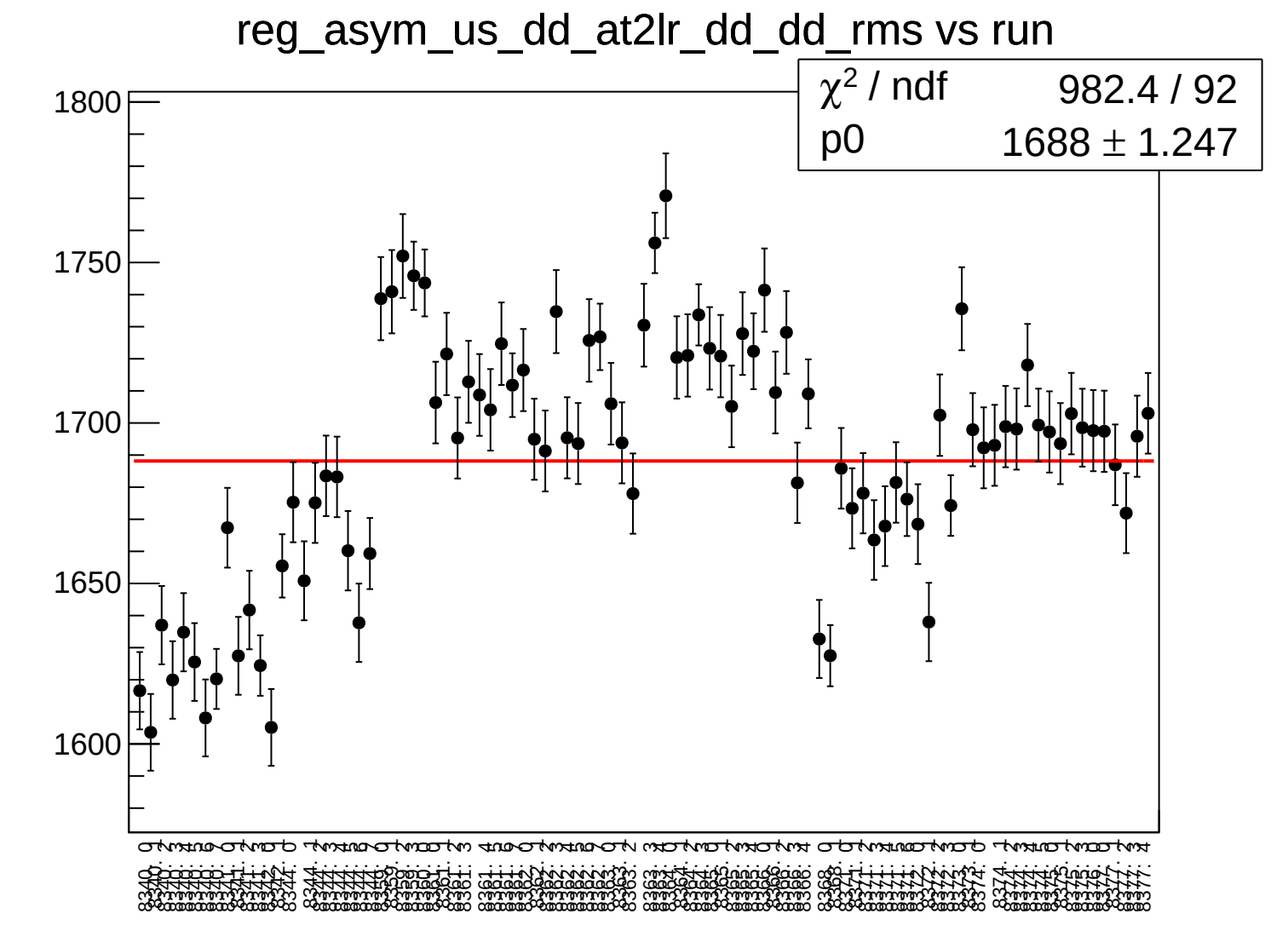

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112 / 92
p0 −0.0245 ± 0.07805
pull
Entries 93
Mean 131.5
Std Dev 0
pull1D
Entries 93
Mean 0.07804
Std Dev 1.095

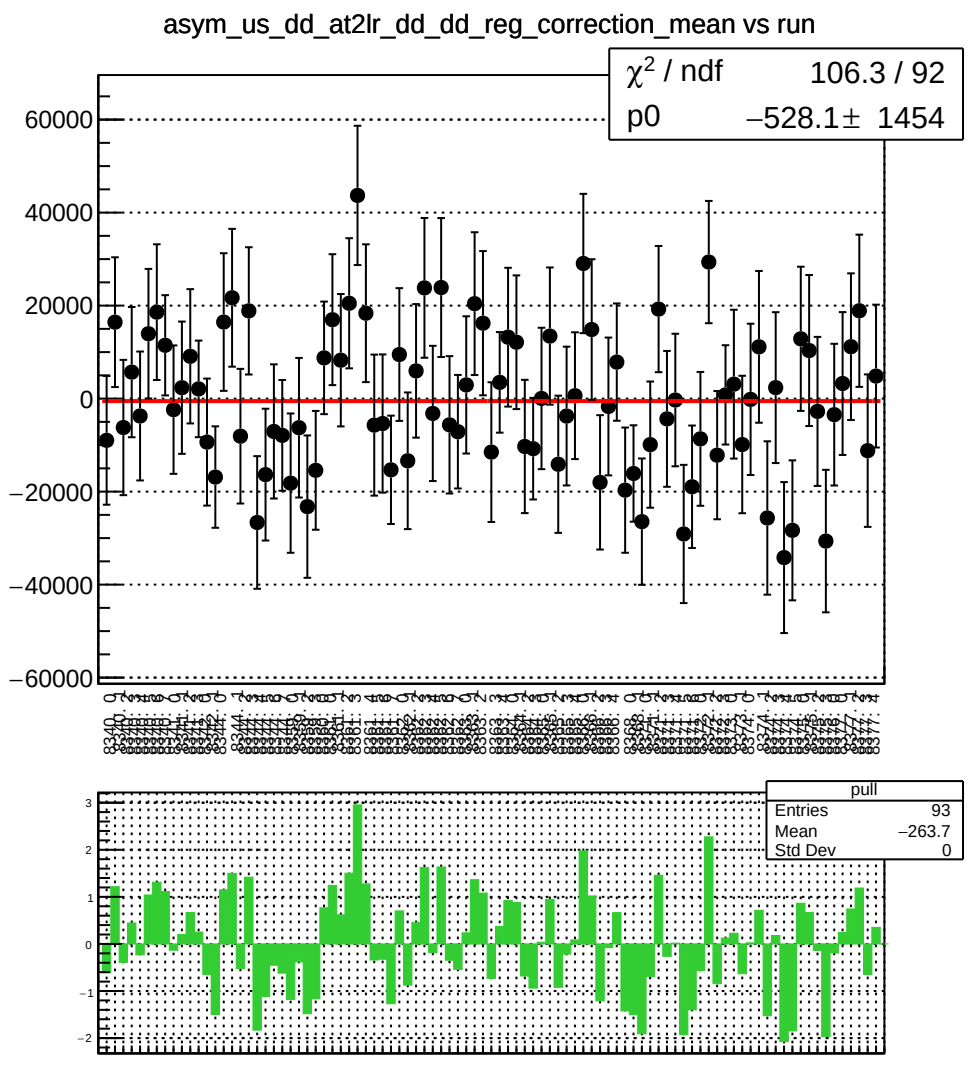

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.44e+05 / 92
p0 71.74 ± 0.05519
140
120
100
80
60
40

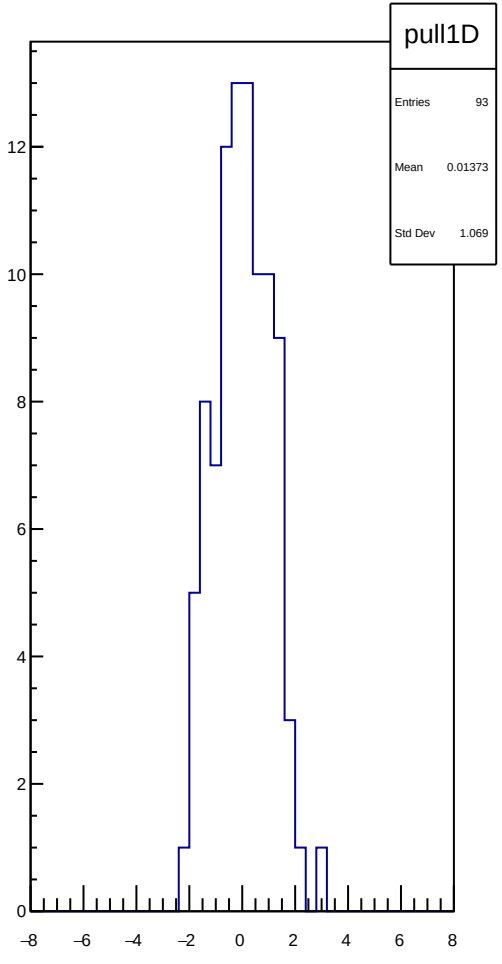

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 114.2 / 92
p0 −1.908e−13 ± 2.301e−13
pull
Entries 93
Mean 26.06
Std Dev 0
pull1D
Entries 93
Mean 0.05366
Std Dev 1.107

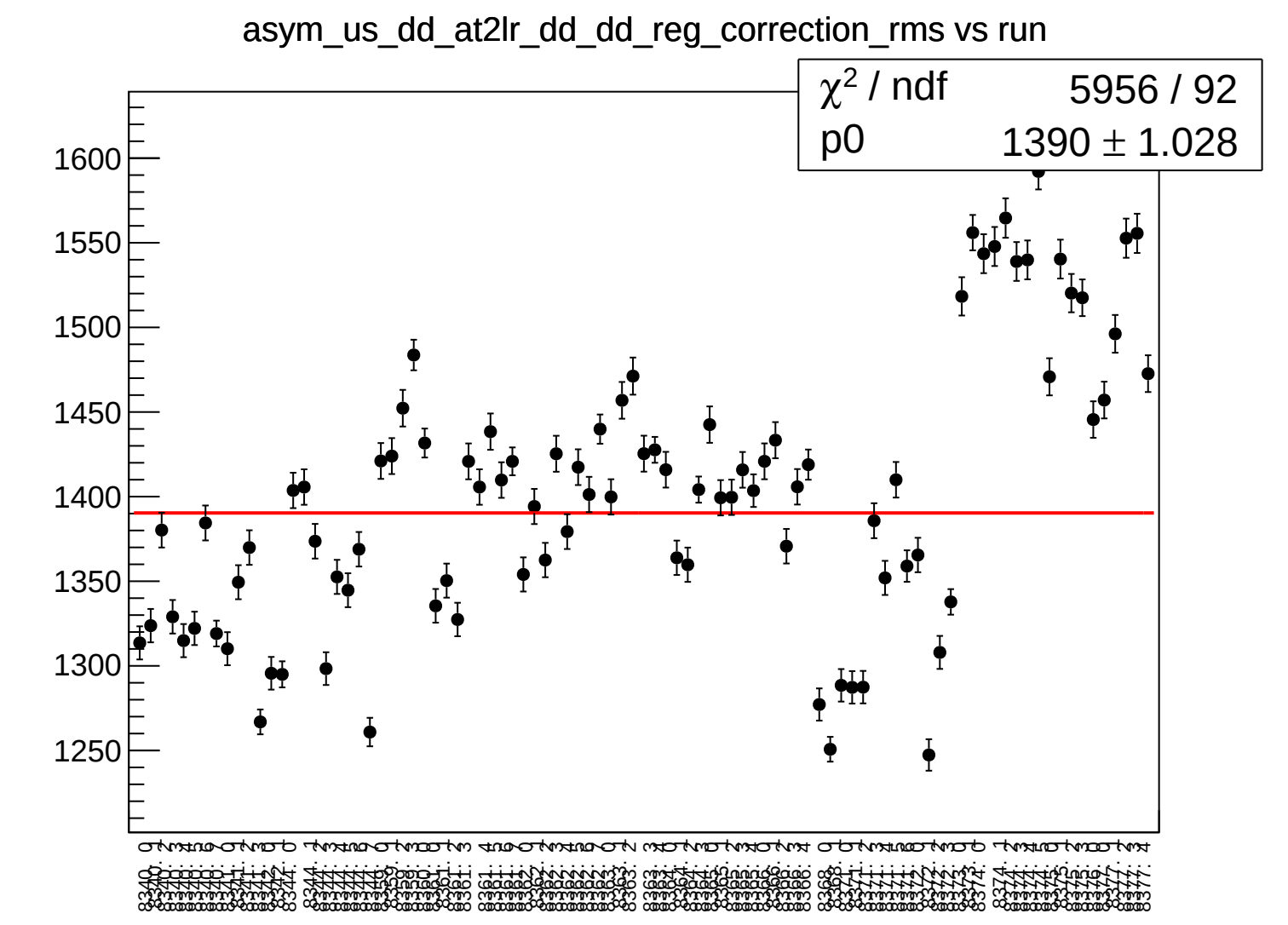

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.014e+05 / 92
p0 1.806e−10 ± 1.627e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

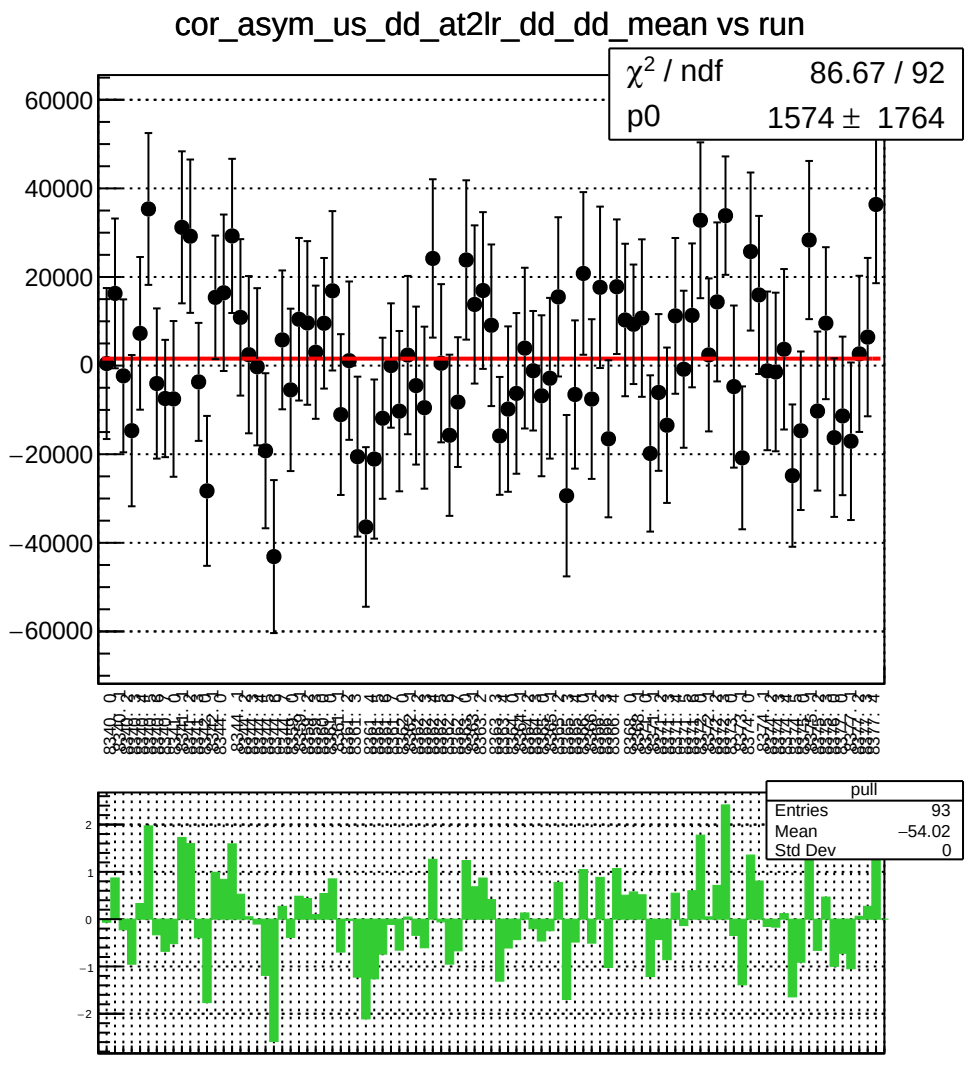

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.67 / 92
p0 1574 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −53.99
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004853
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

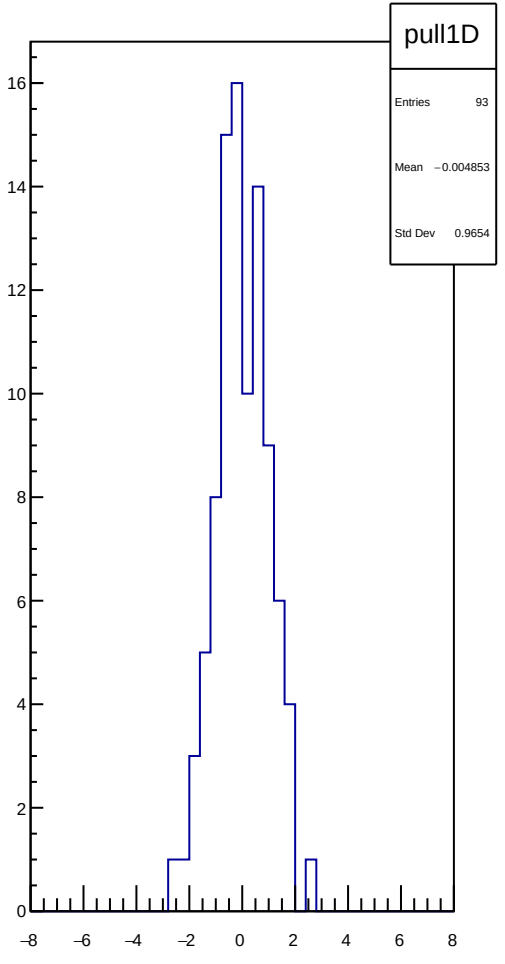

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 982.4 / 92
p0 1688 ± 1.247
1800
1750
1700
1650
1600

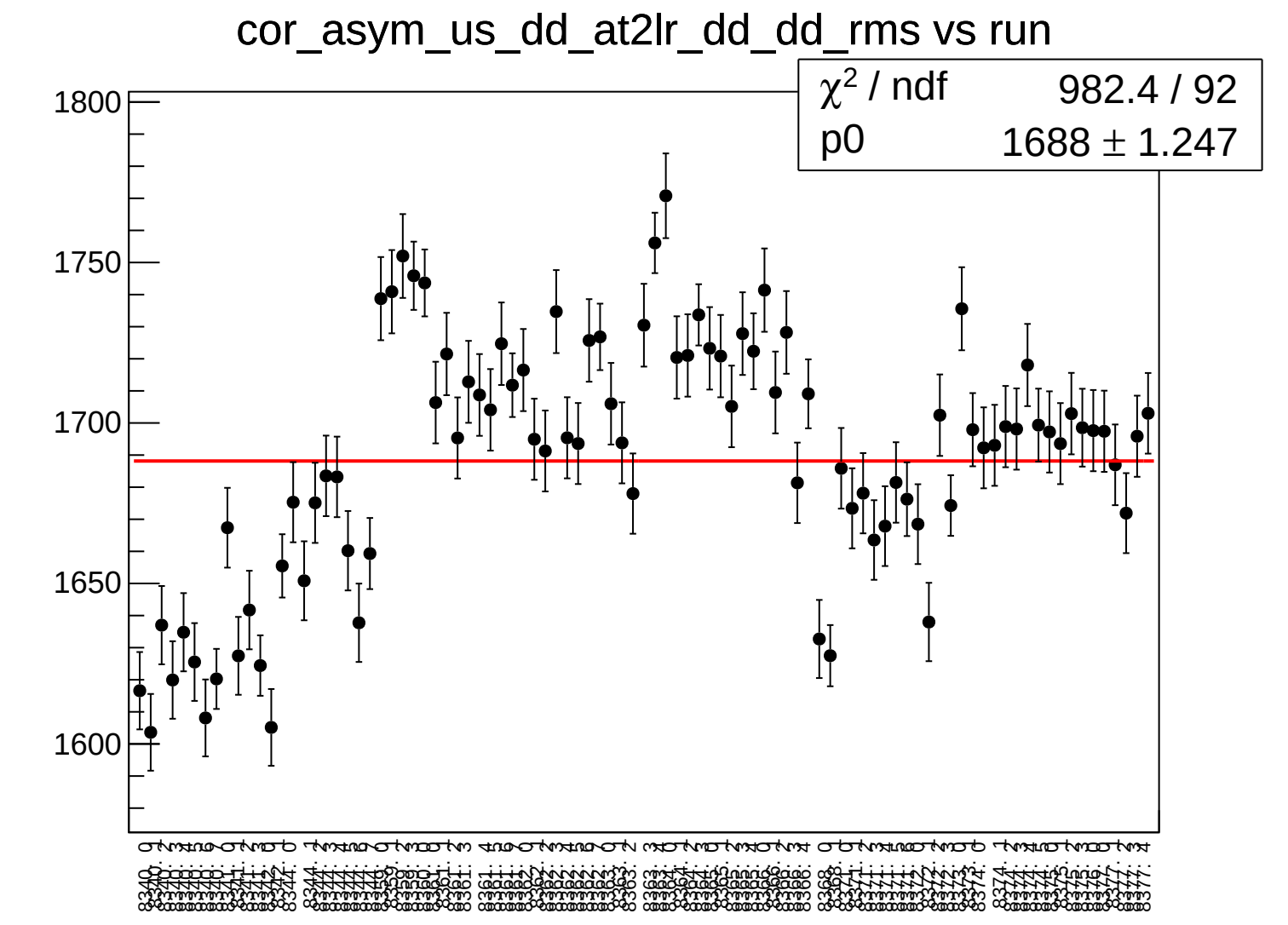

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 106.3 / 92
p0 −528.1± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −263.7
Std Dev 0
3
2
1
0
−1
−2

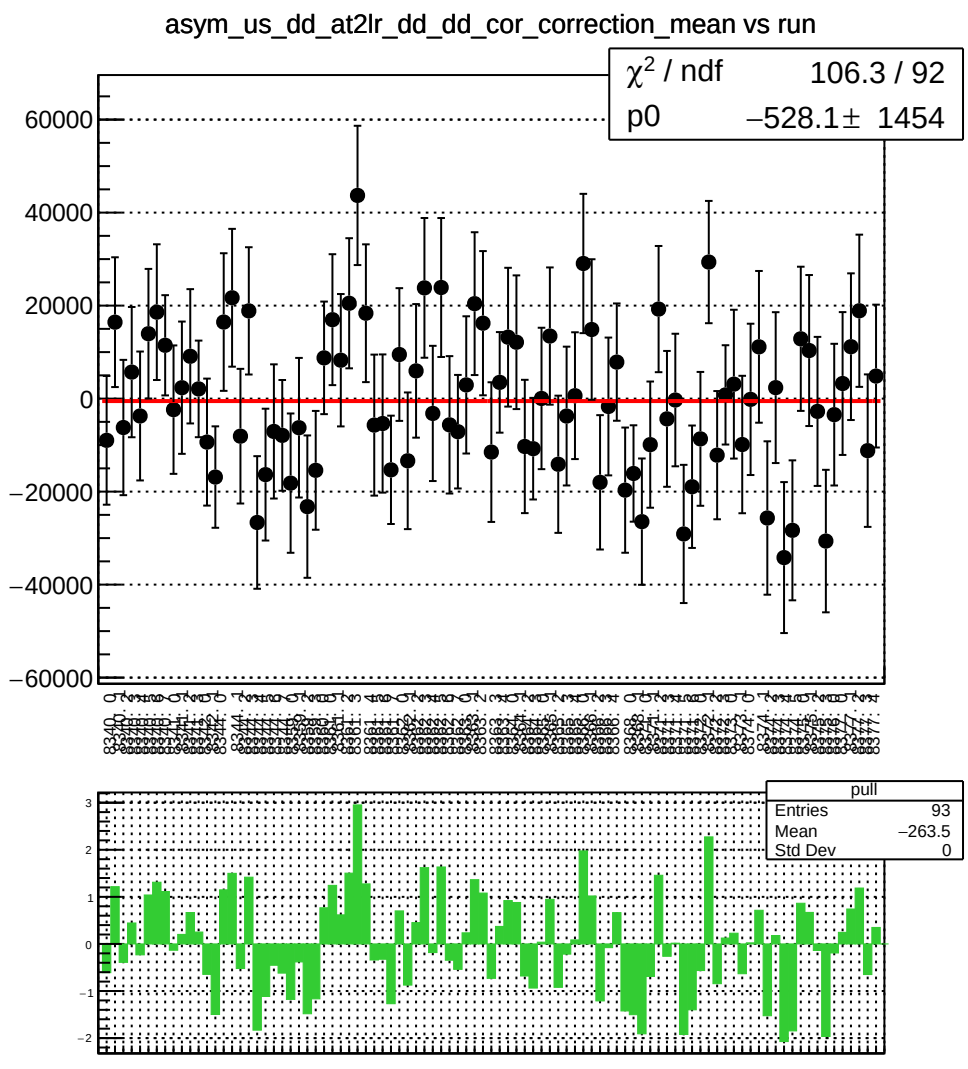

pull1D
Entries 93
Mean 0.01373
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

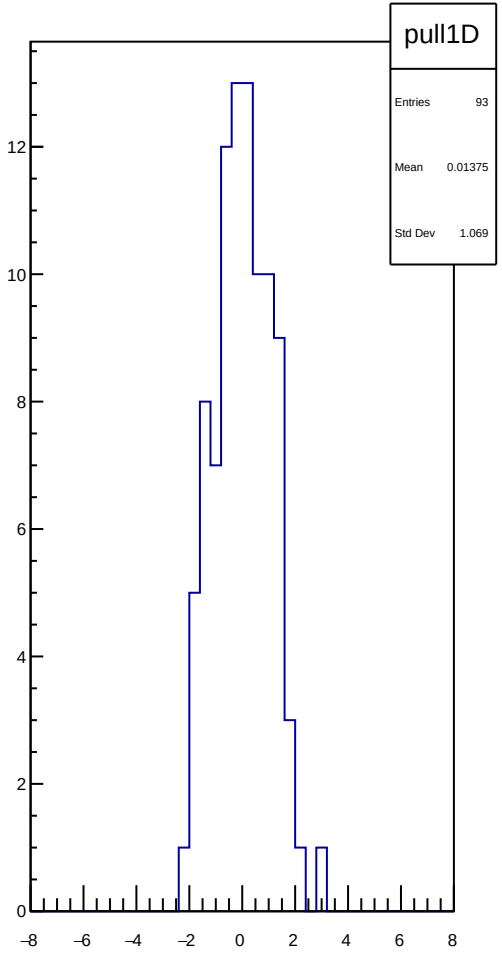

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5956 / 92
p0 1390 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

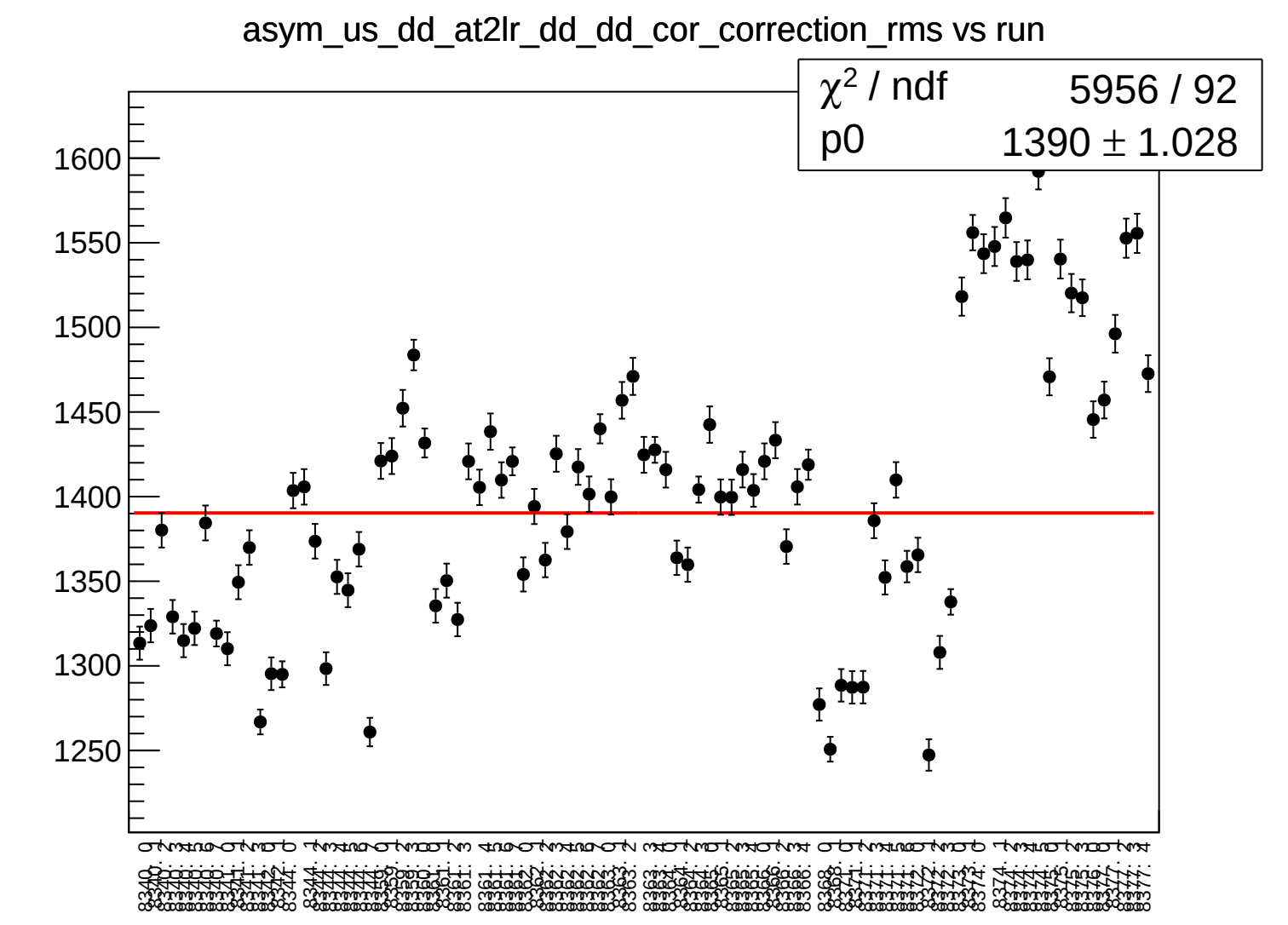

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.67 / 92
p0 1574 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −54.02
Std Dev 0
2
1
0
−1
−2

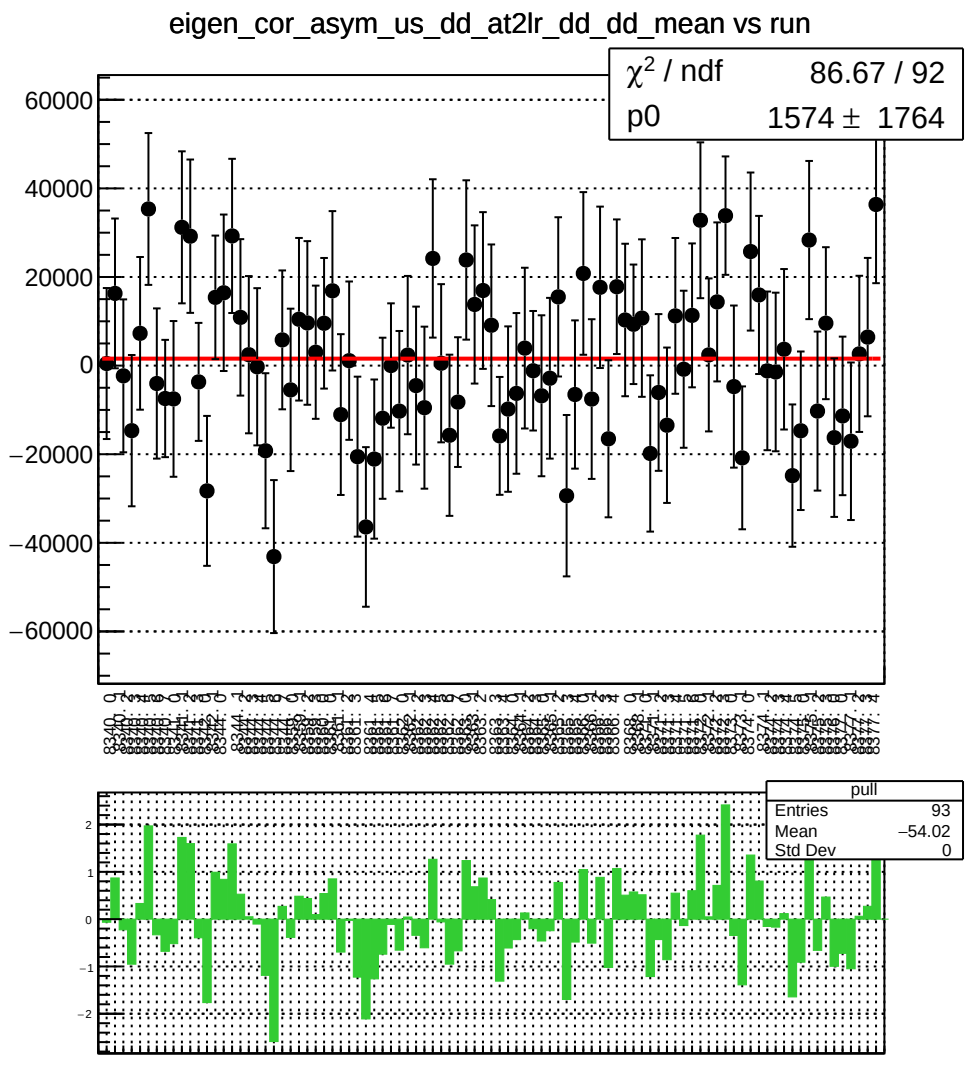

pull1D
Entries 93
Mean −0.004853
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

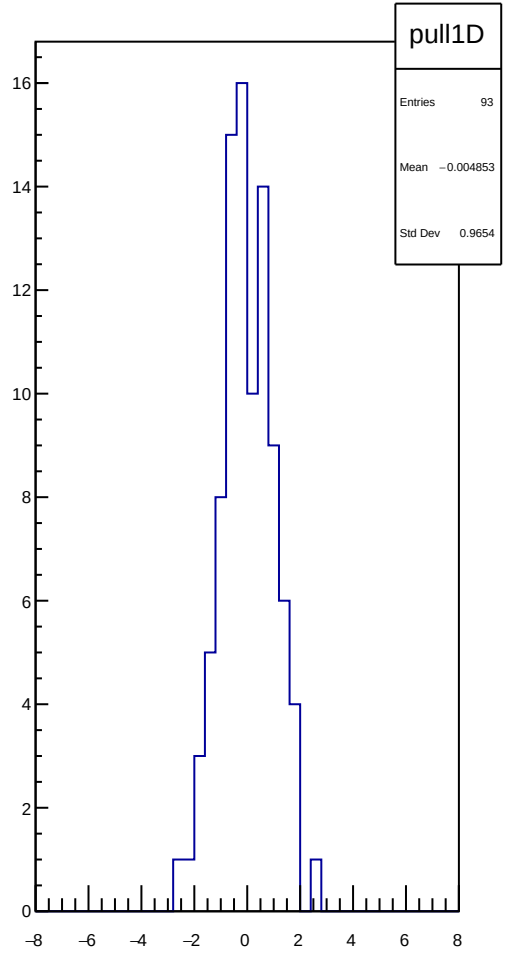

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 982.4 / 92
p0 1688 ± 1.247
1800
1750
1700
1650
1600

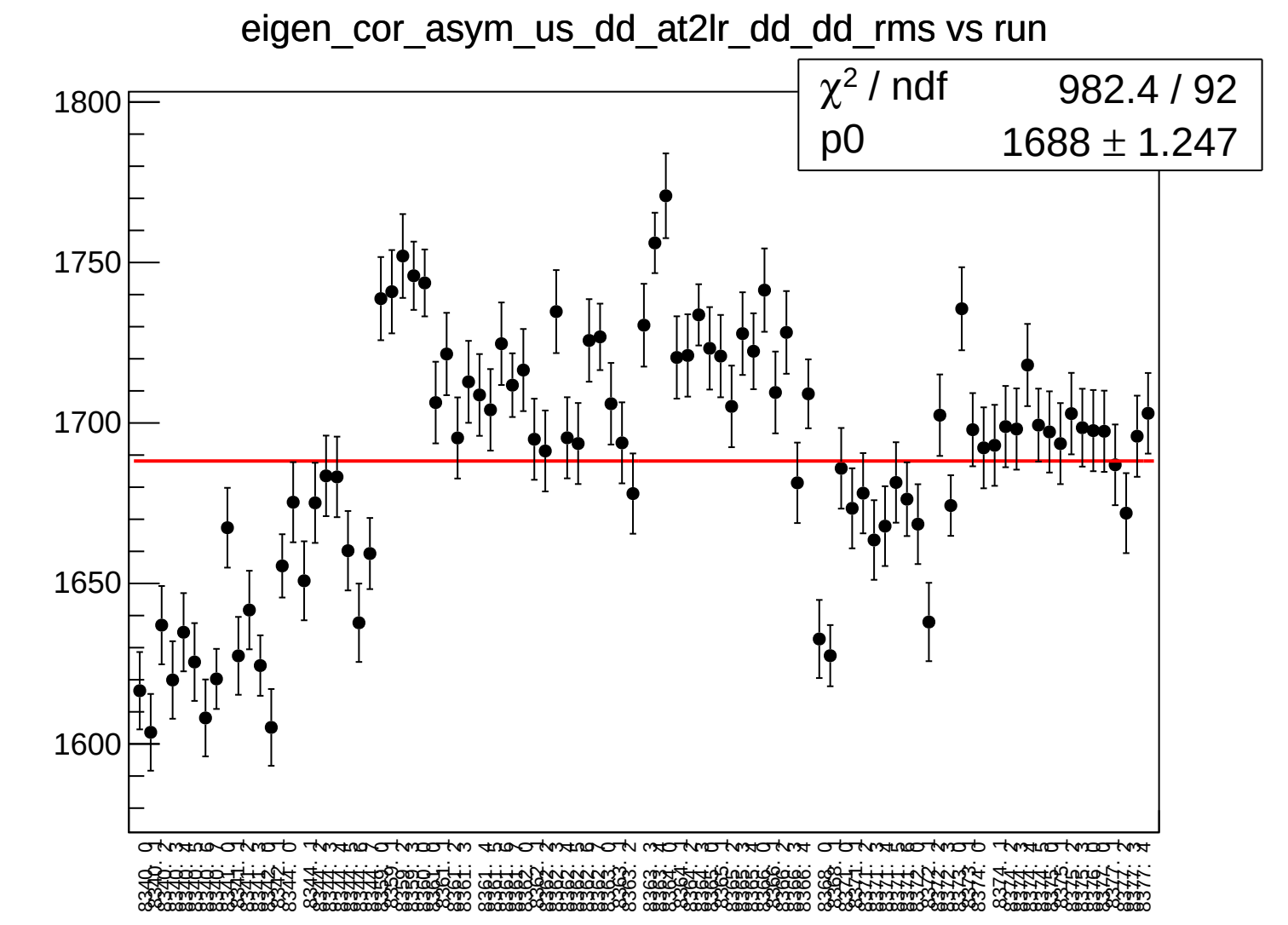

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 106.3 / 92
p0 −528.1± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −263.5
Std Dev 0
3
2
1
0
−1
−2

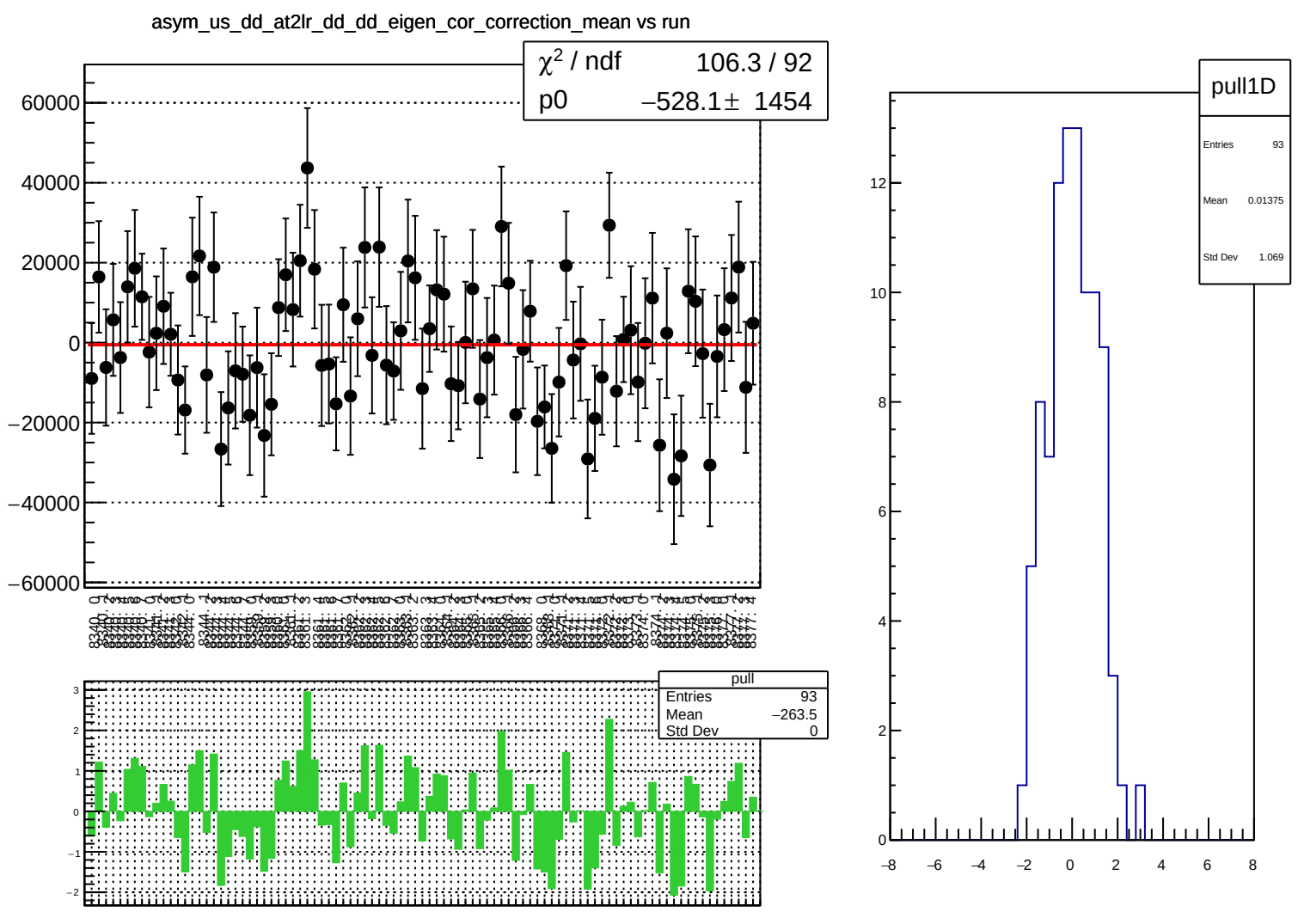

pull1D
Entries 93
Mean 0.01375
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

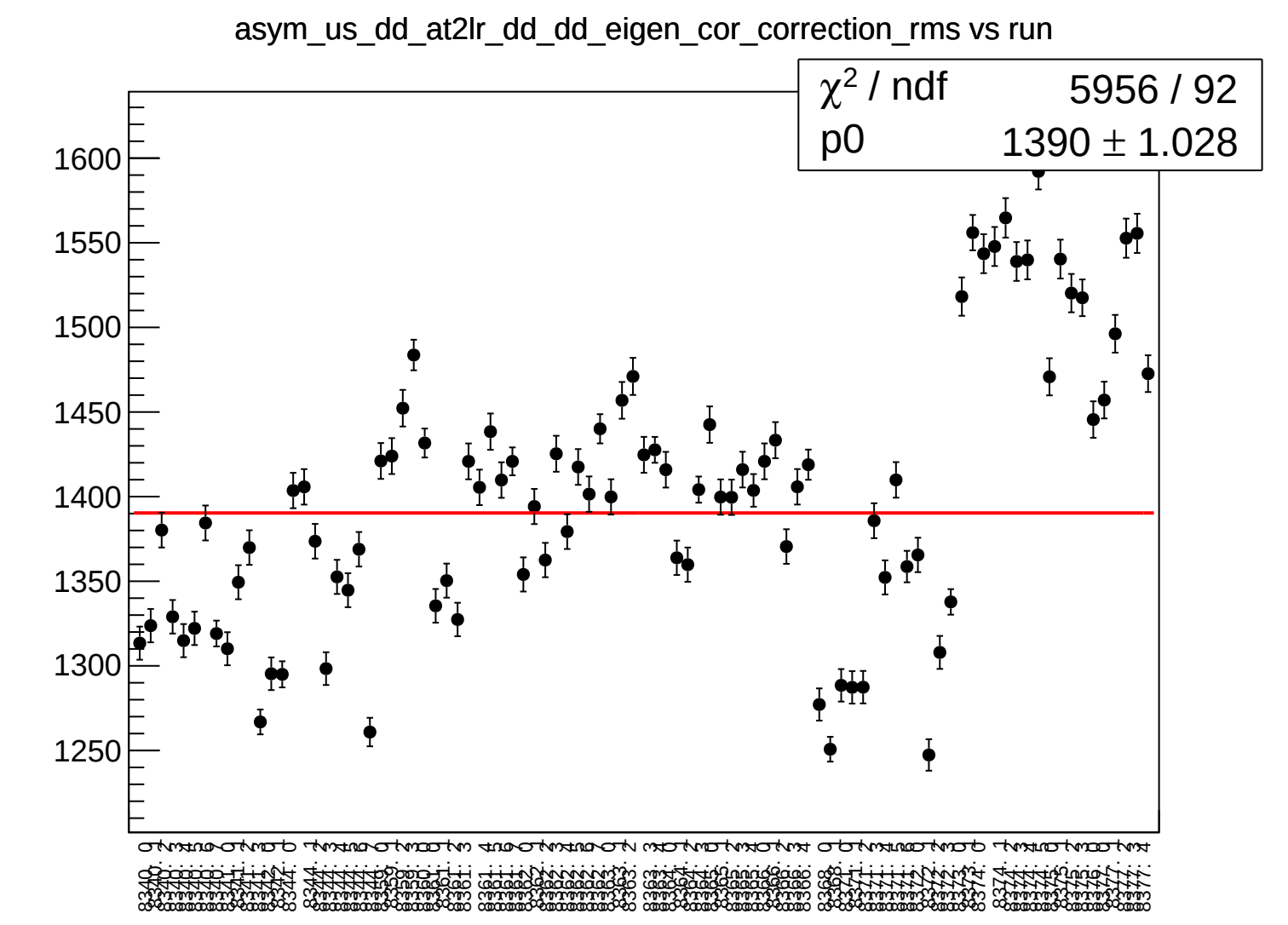

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5956 / 92
p0 1390 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

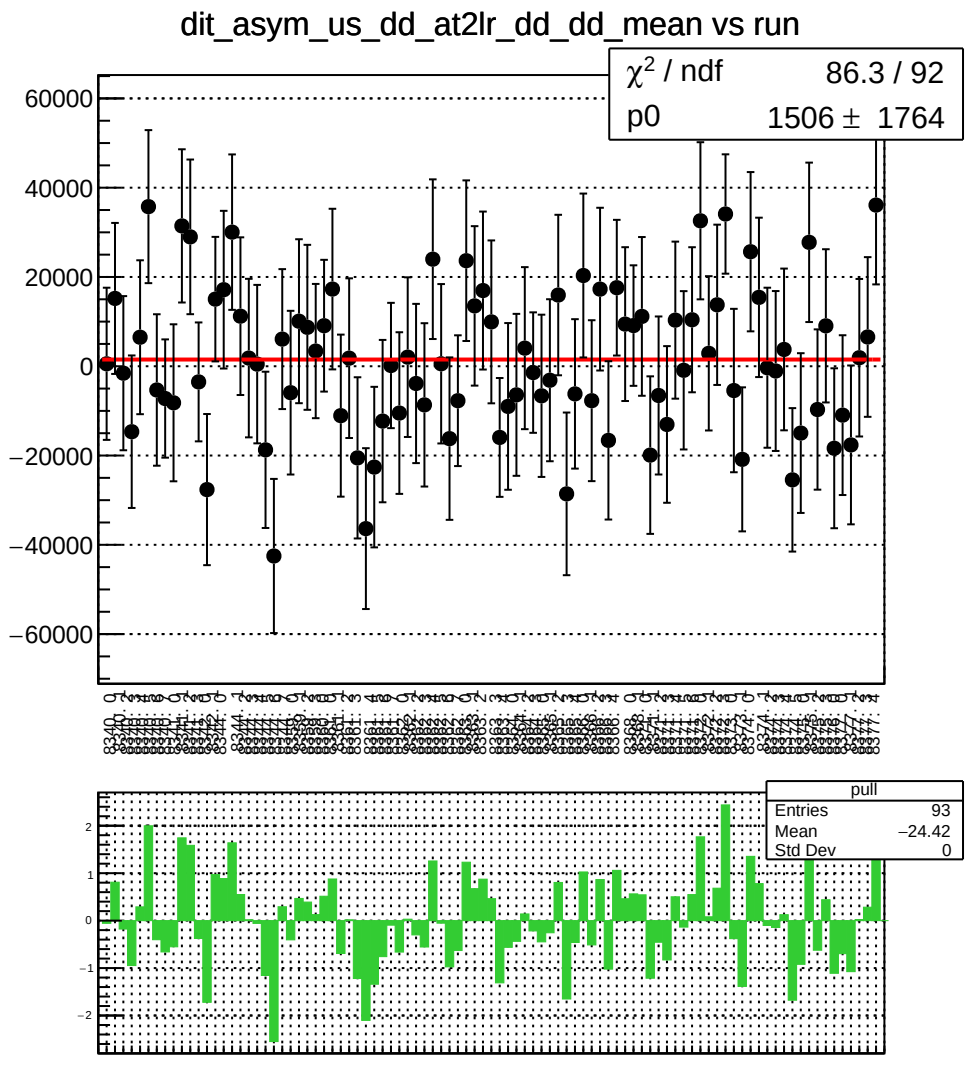

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.67 / 92
p0 1574 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −54.02
Std Dev 0
2
1
0
−1
−2

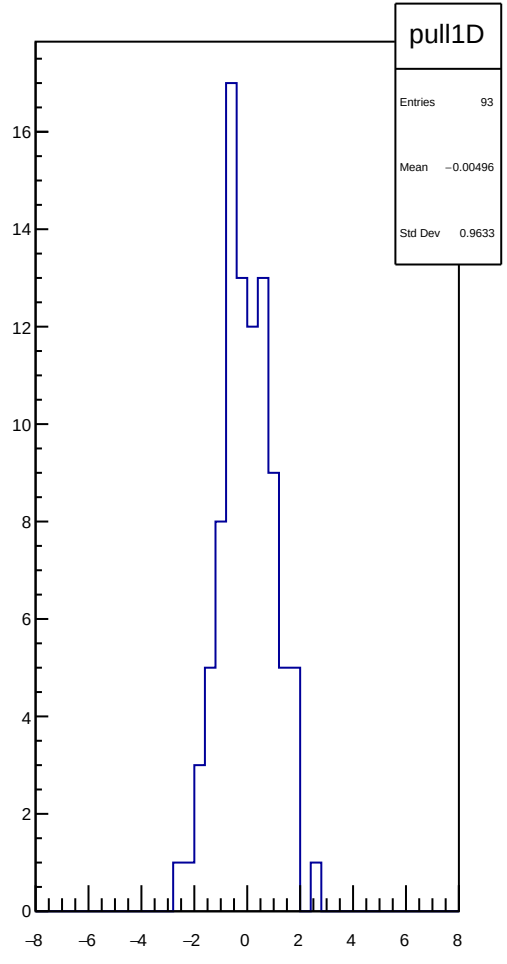

pull1D
Entries 93
Mean −0.004853
Std Dev 0.9654
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

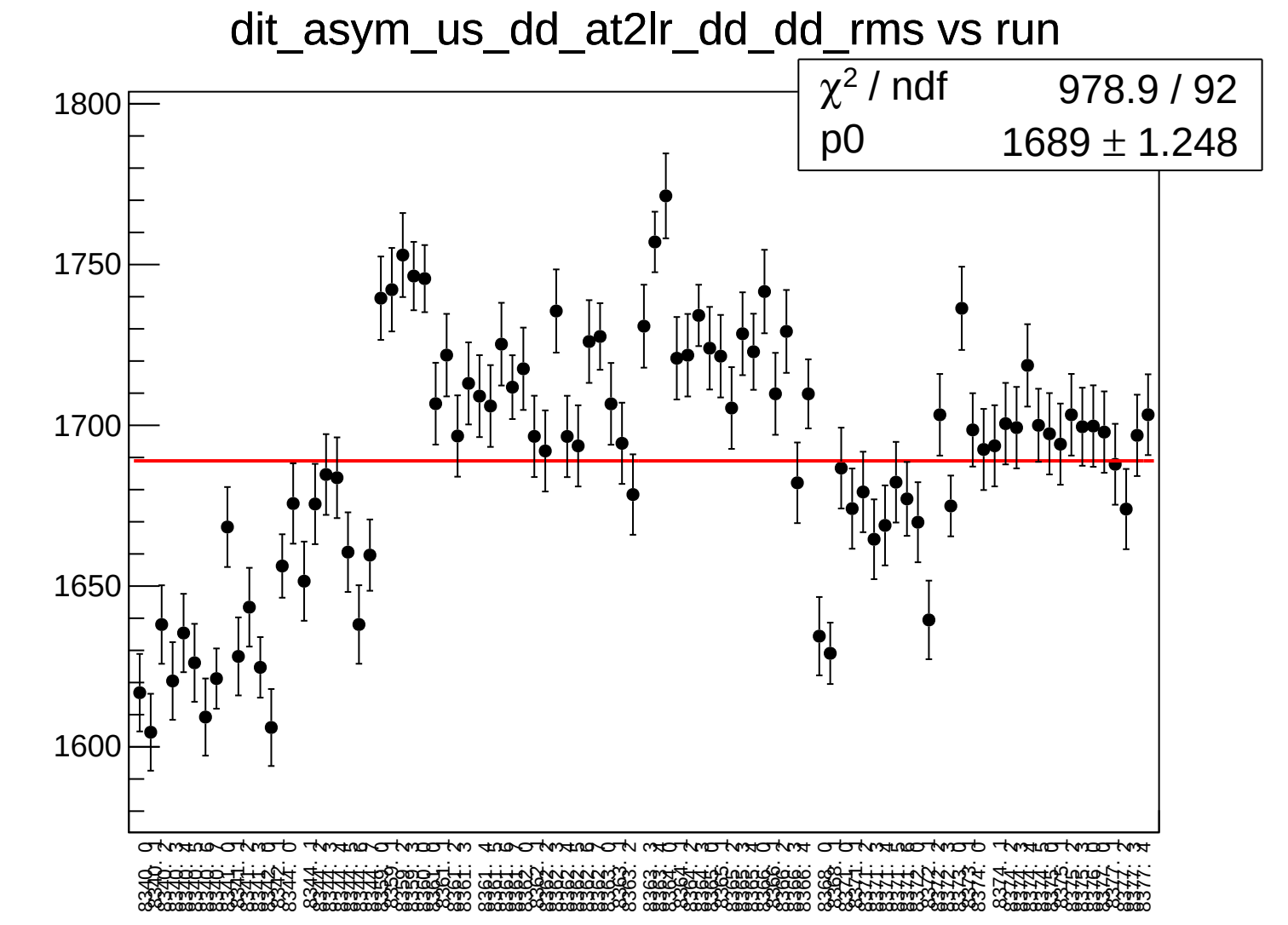

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 982.4 / 92
p0 1688 ± 1.247
1800
1750
1700
1650
1600

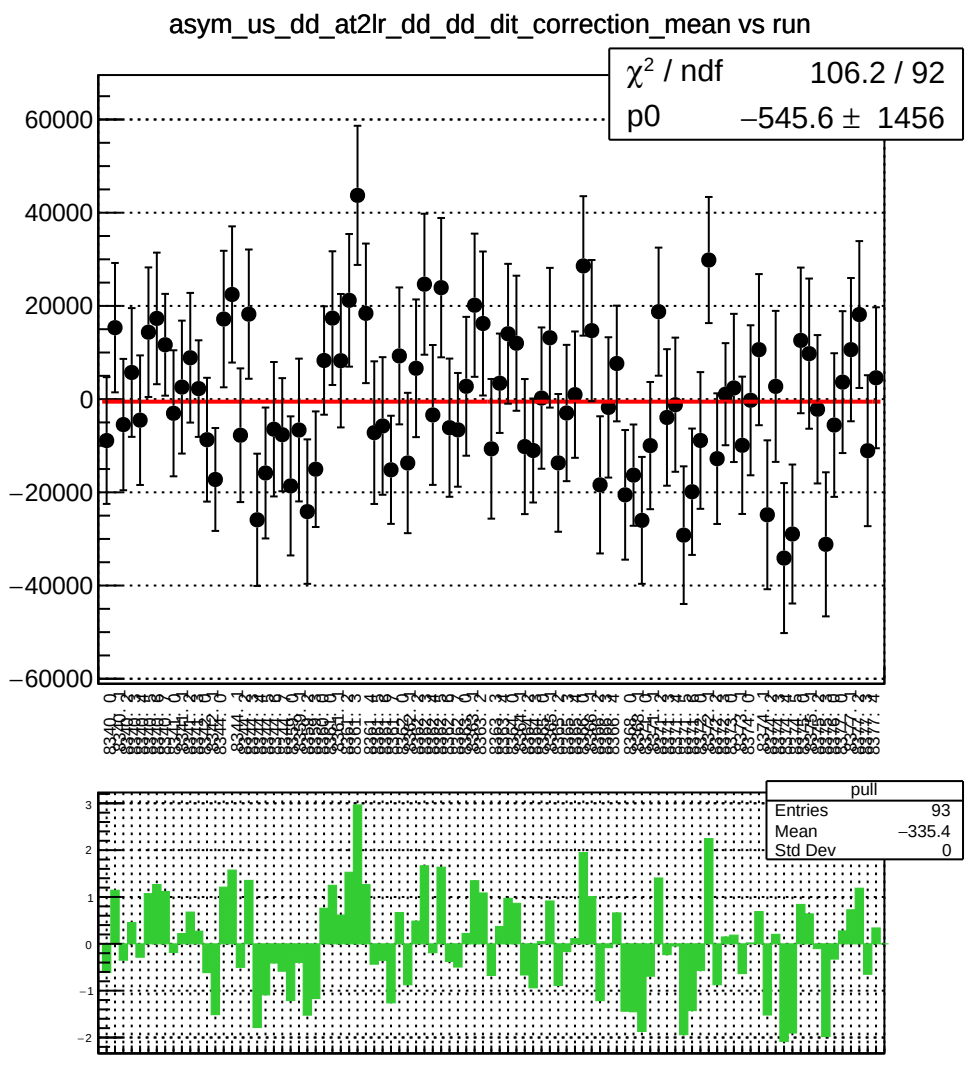

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.3 / 92
p0 −528.1± 1454
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −263.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01375
Std Dev 1.069
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

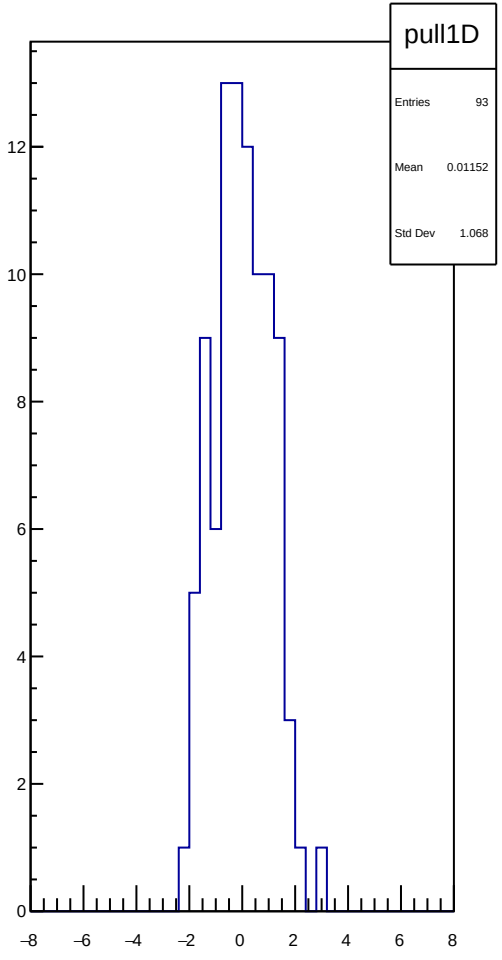

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5956 / 92
p0 1390 ± 1.028
1600
1550
1500
1450
1400
1350
1300
1250

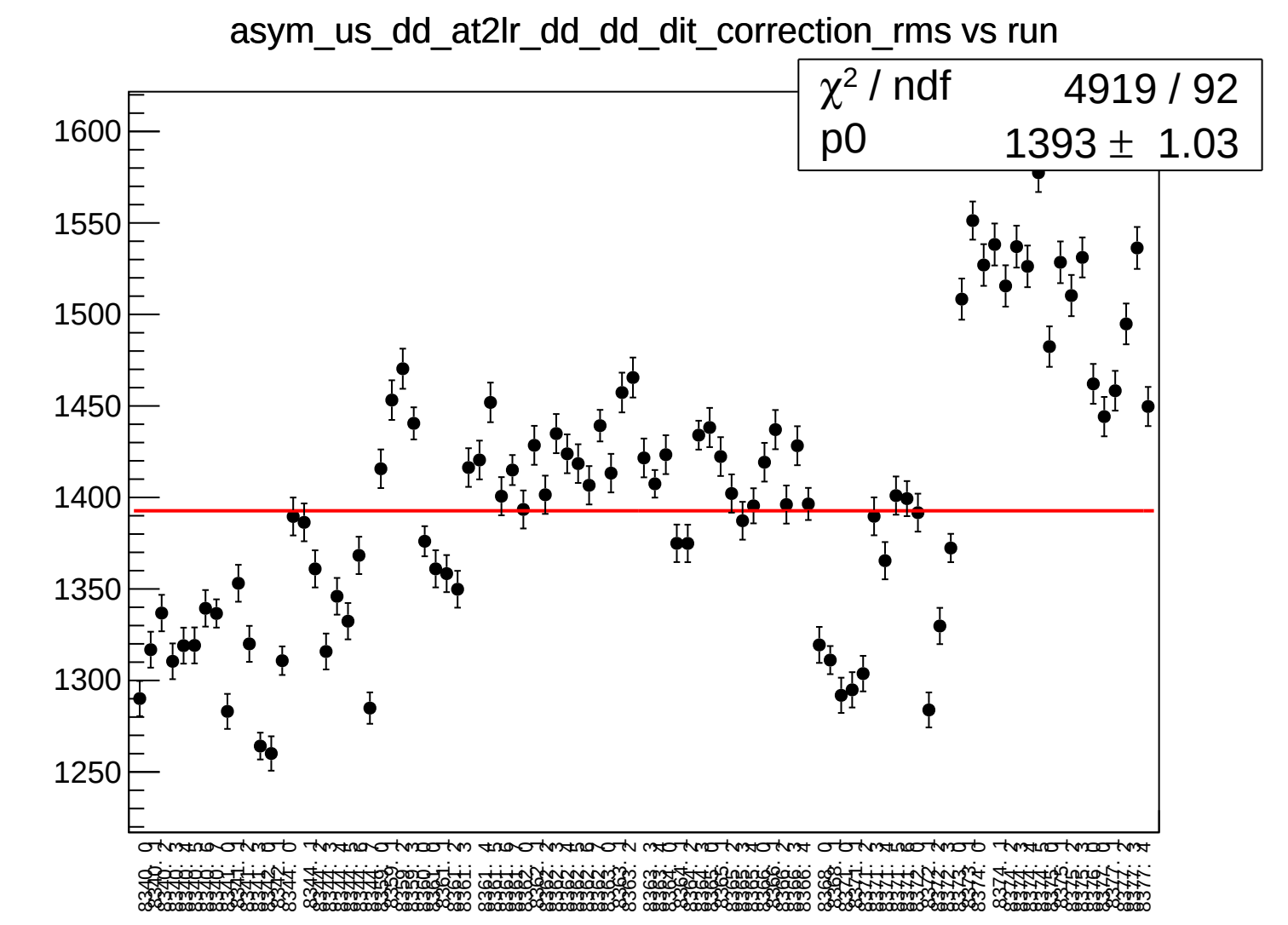

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.3 / 92
p0 1506 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −24.42
Std Dev 0
2
1
0
−1
−2

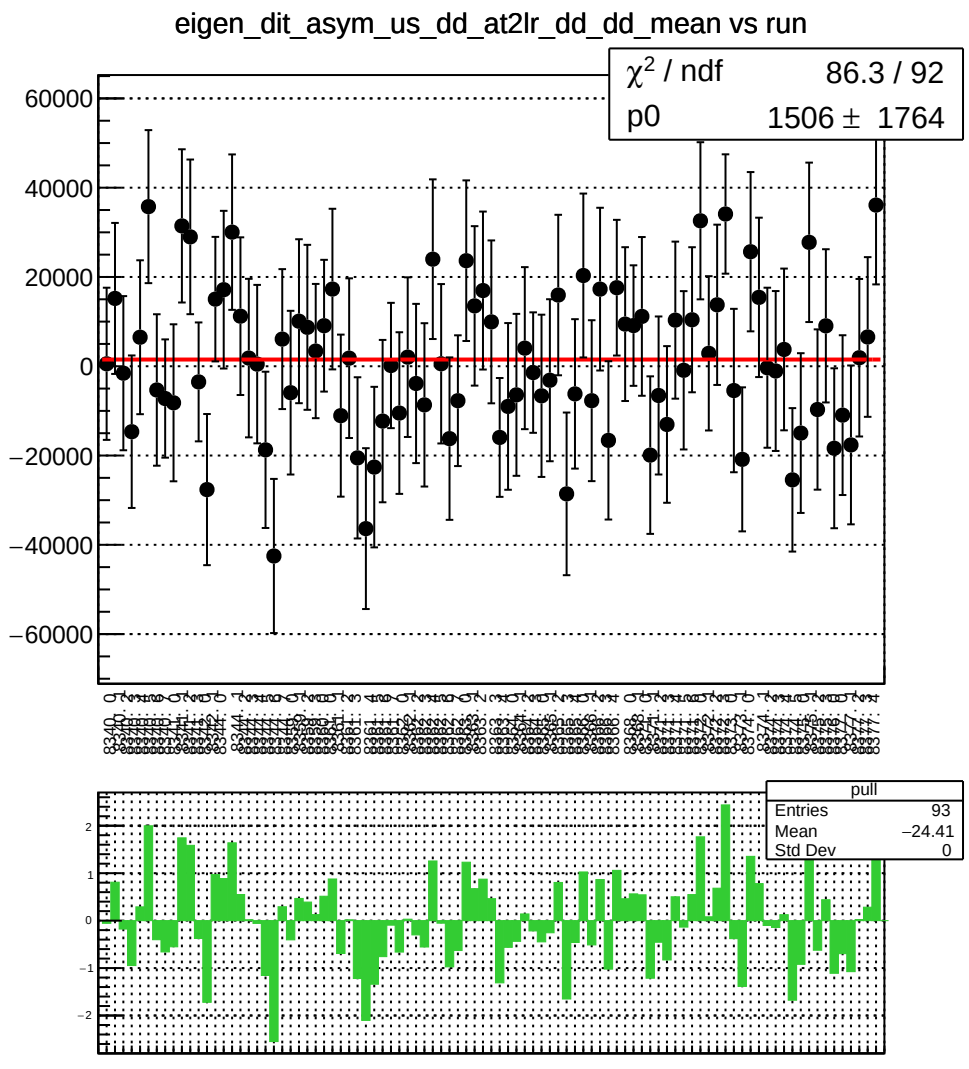

pull1D
Entries 93
Mean −0.00496
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

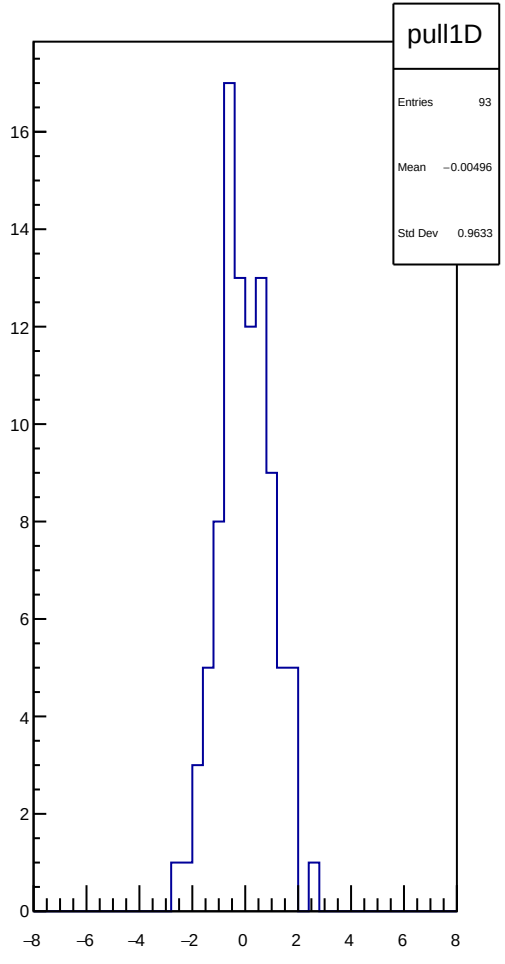

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 978.9 / 92
p0 1689 ± 1.248
1800
1750
1700
1650
1600

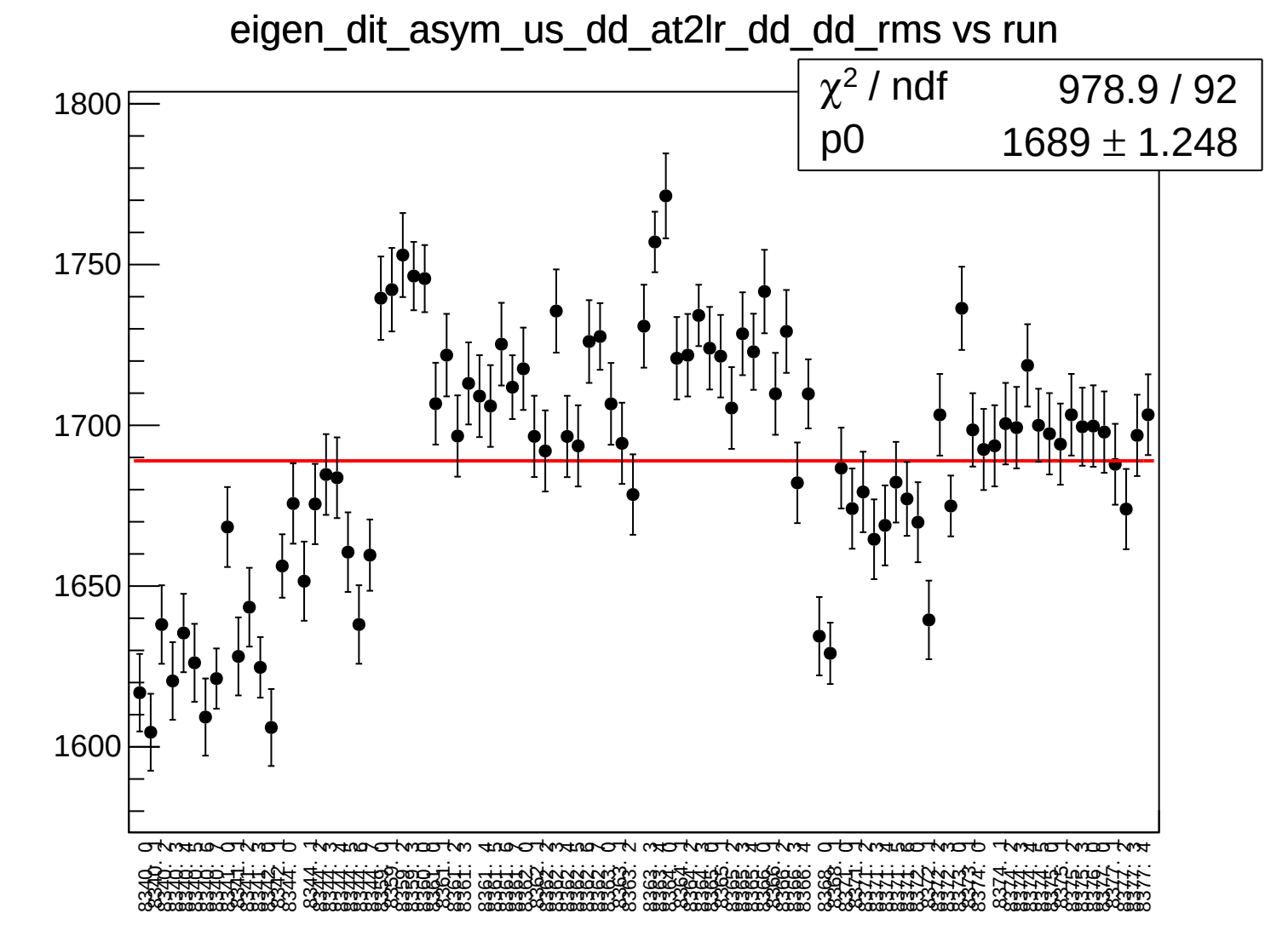

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 −545.6 ± 1456
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −335.4
Std Dev 0
3
2
1
0
−1
−2

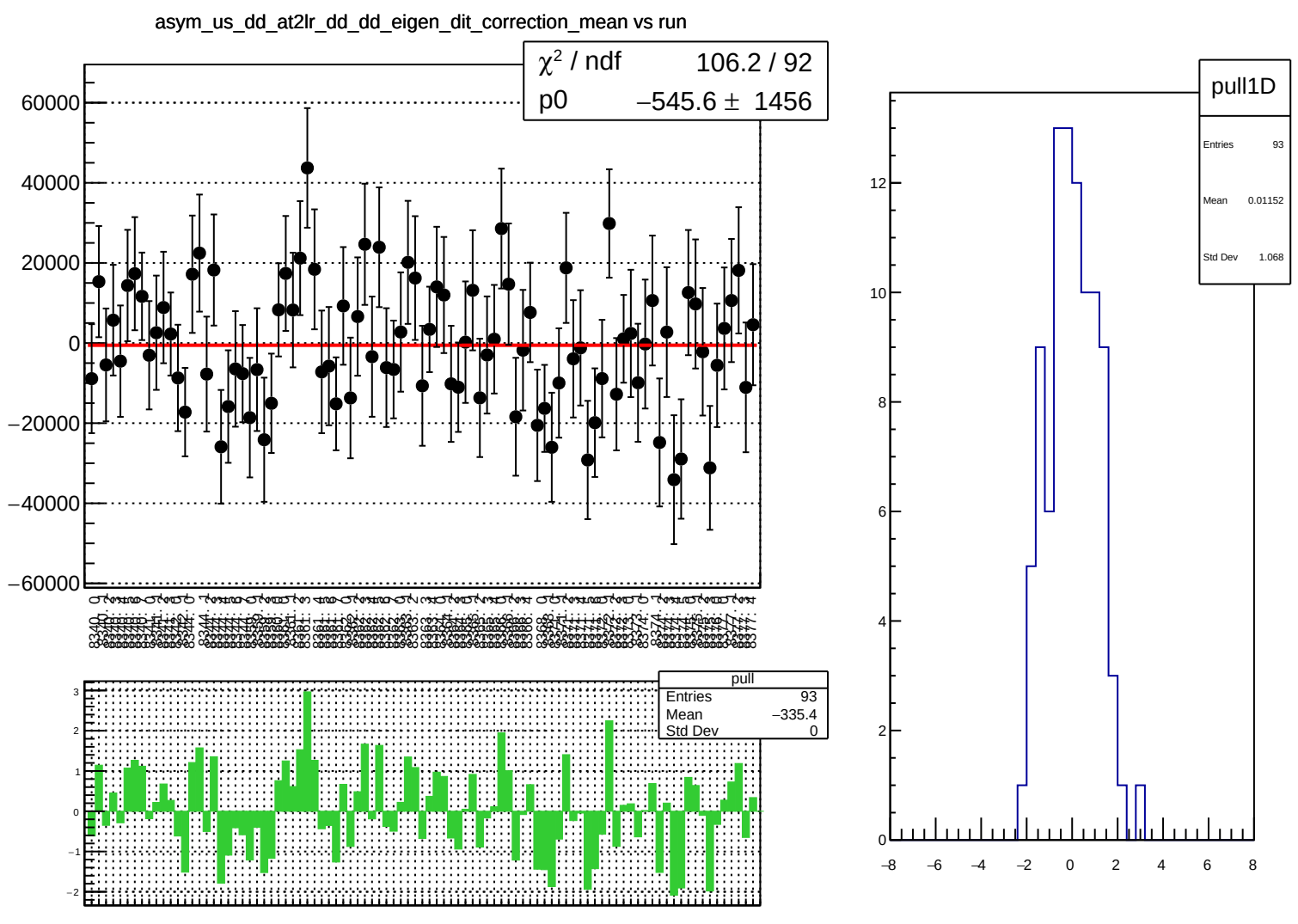

pull1D
Entries 93
Mean 0.01152
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

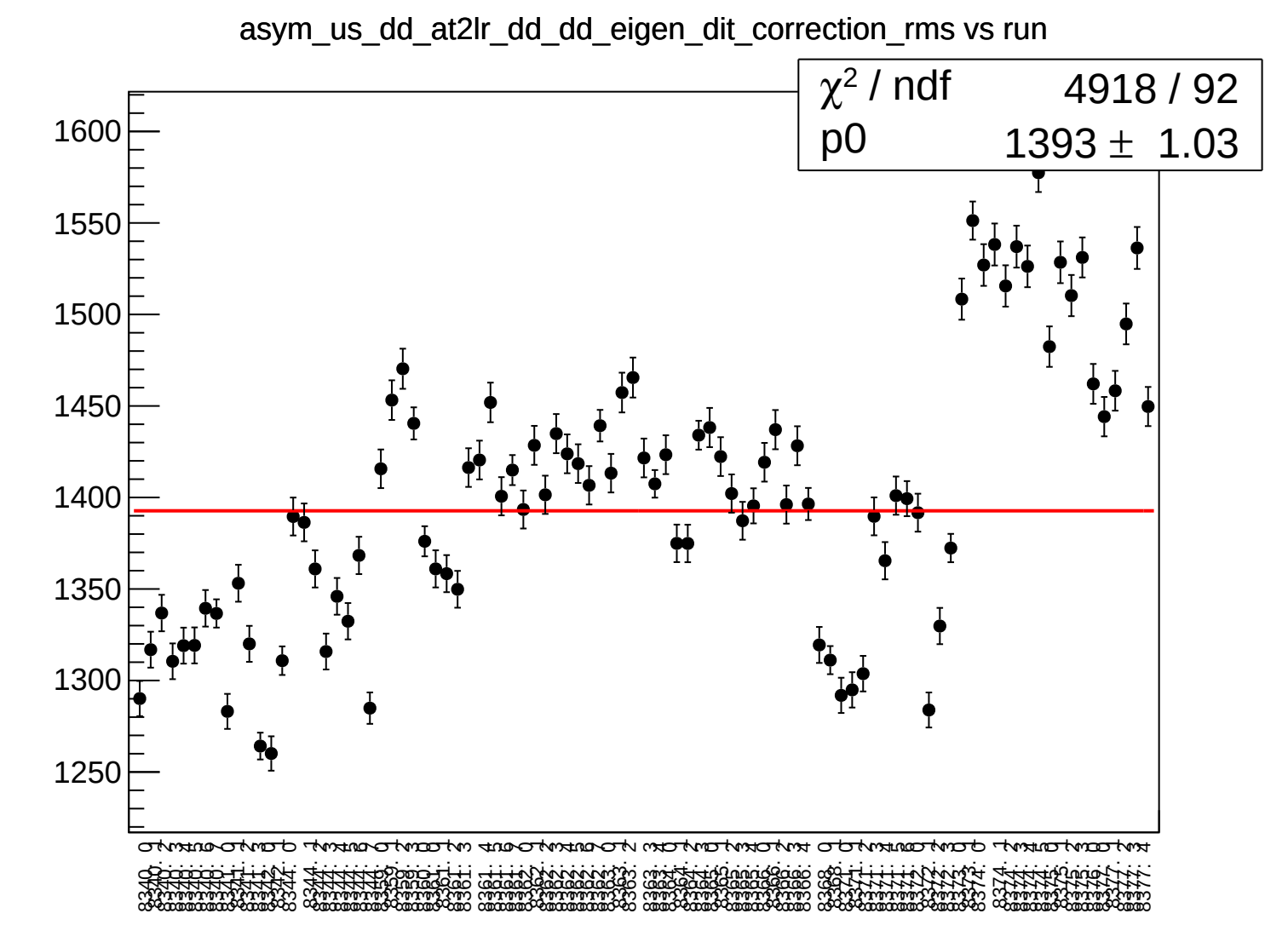

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4919 / 92
p0 1393 ± 1.03
1600
1550
1500
1450
1400
1350
1300
1250

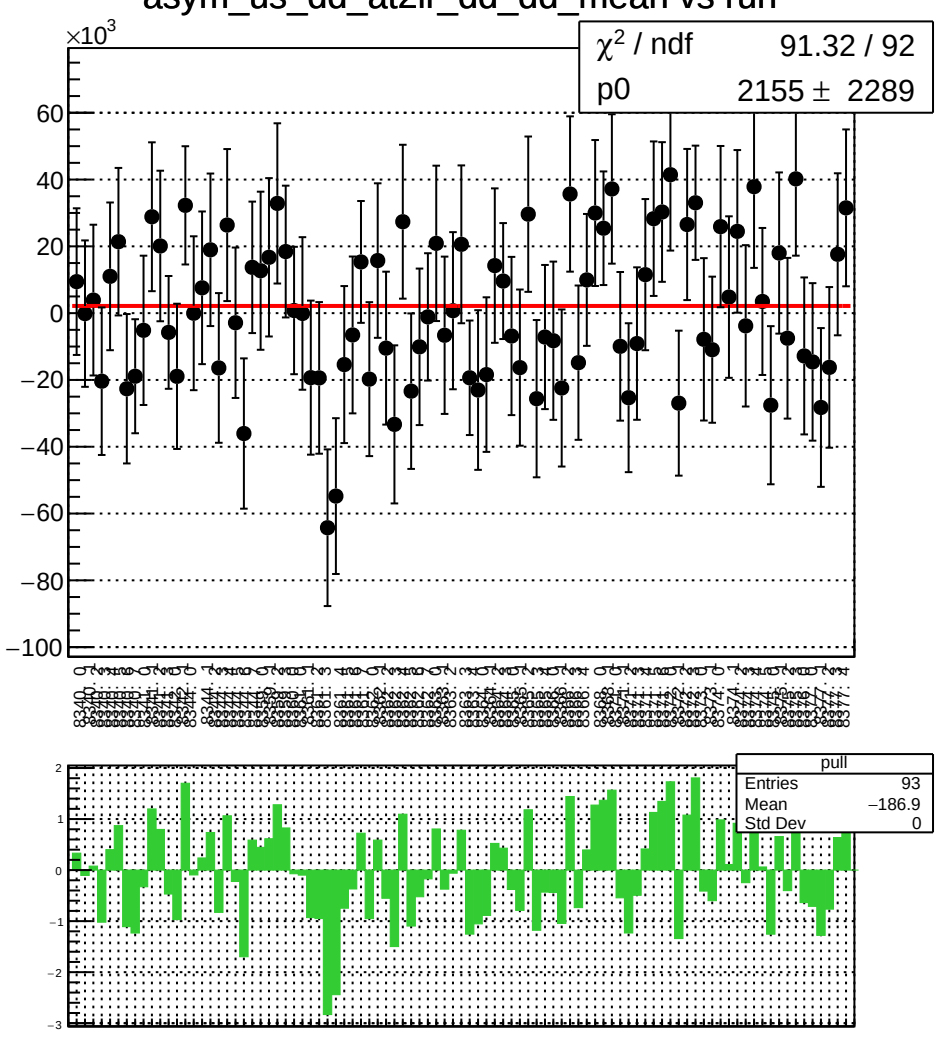

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 86.3 / 92
p0 1506 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −24.41
Std Dev 0
2
1
0
−1
−2

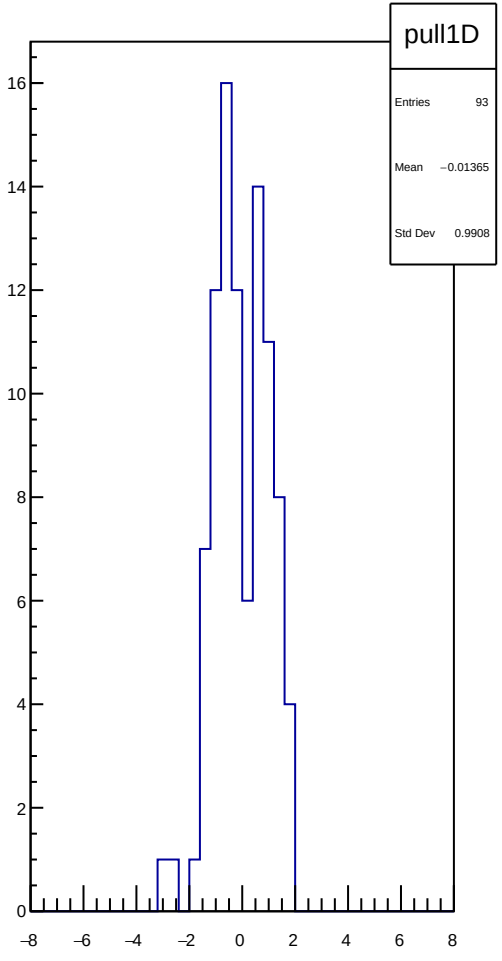

pull1D
Entries 93
Mean −0.00496
Std Dev 0.9633
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

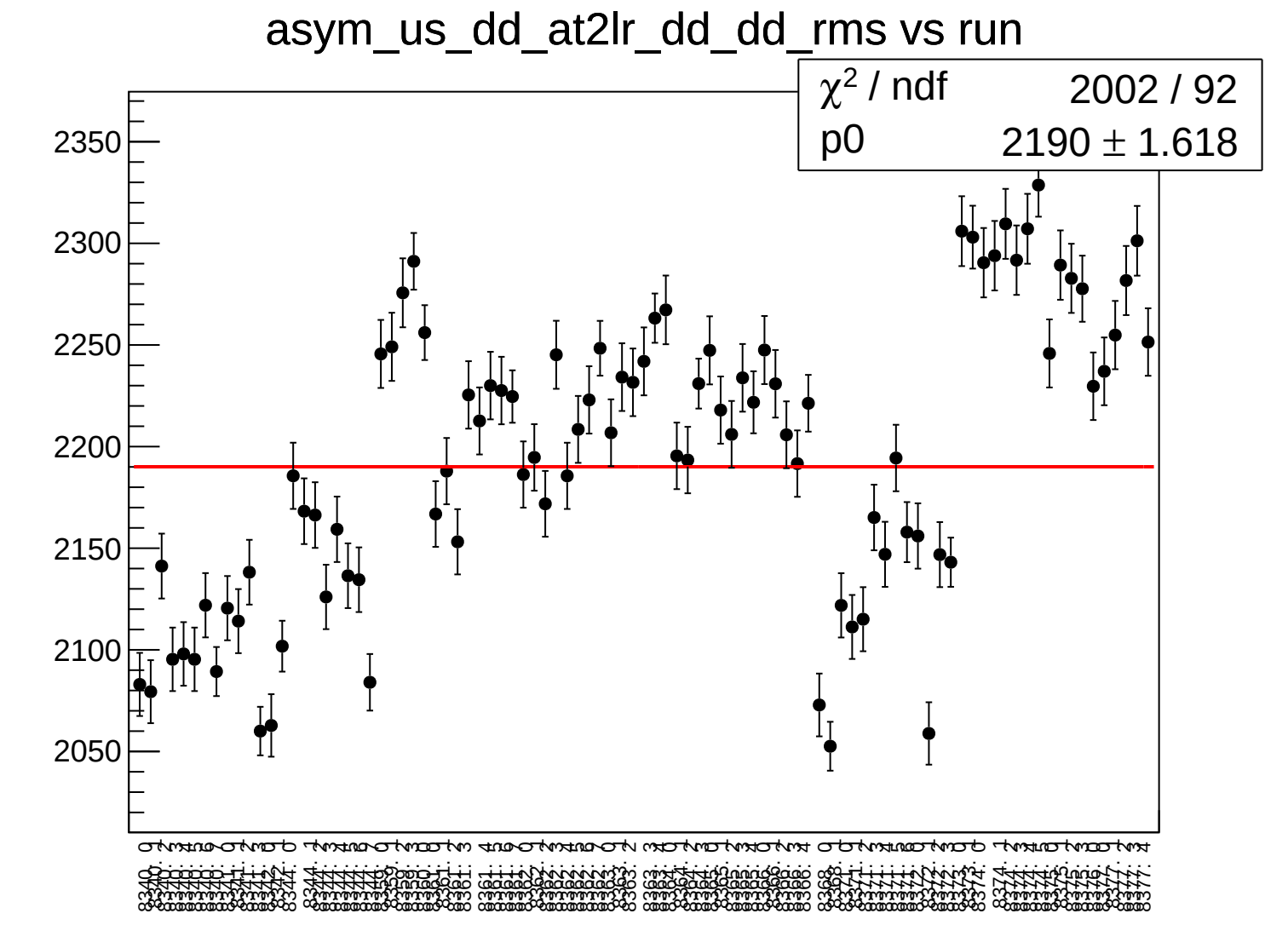

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 978.9 / 92
p0 1689 ± 1.248
1800
1750
1700
1650
1600

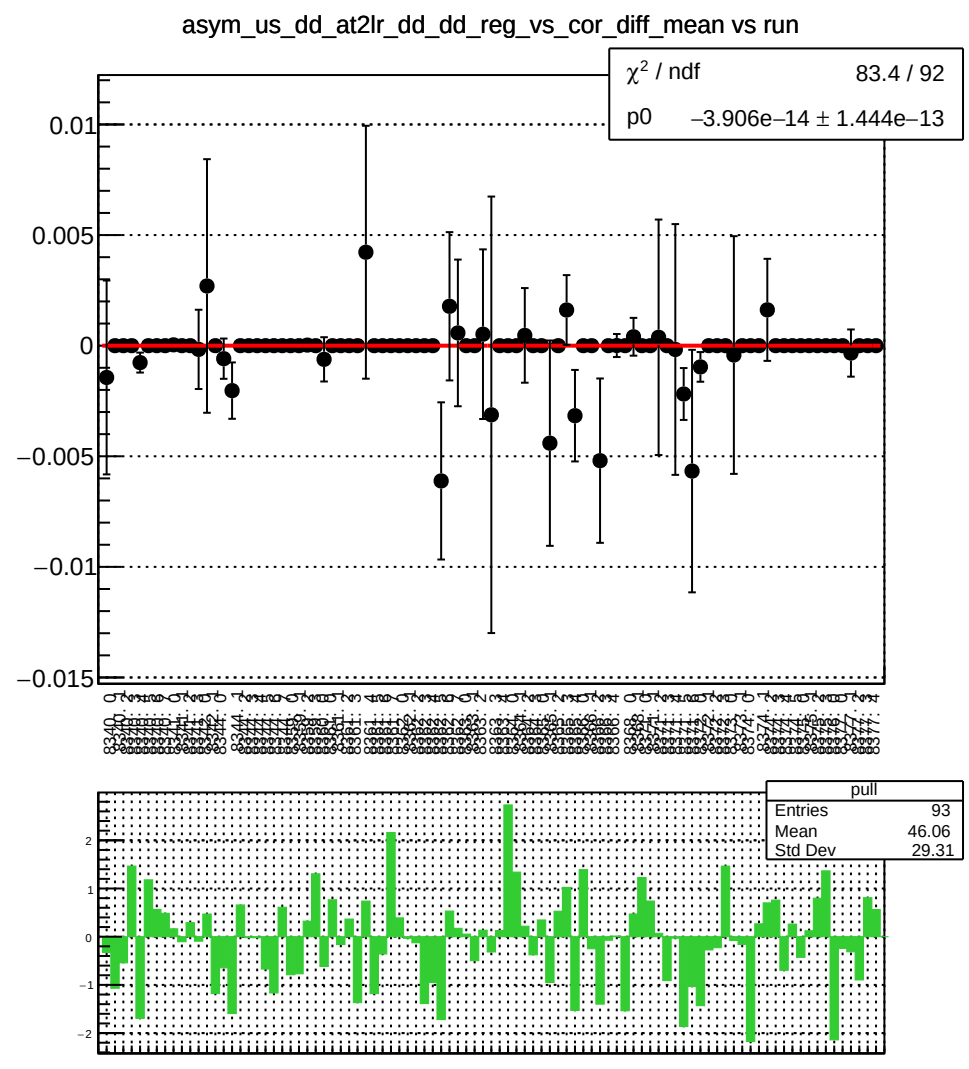

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 92
p0 −545.6 ± 1456
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −335.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01152
Std Dev 1.068
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

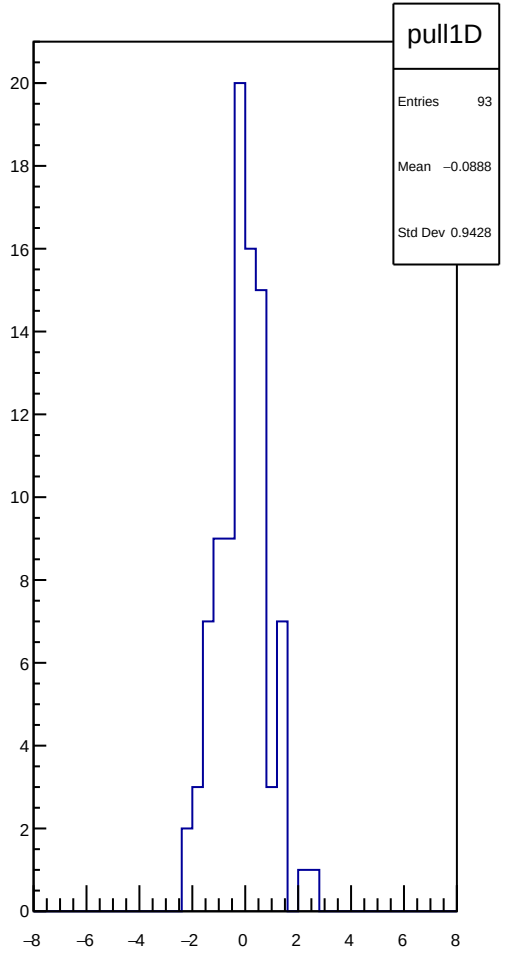

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4918 / 92
p0 1393 ± 1.03
1600
1550
1500
1450
1400
1350
1300
1250

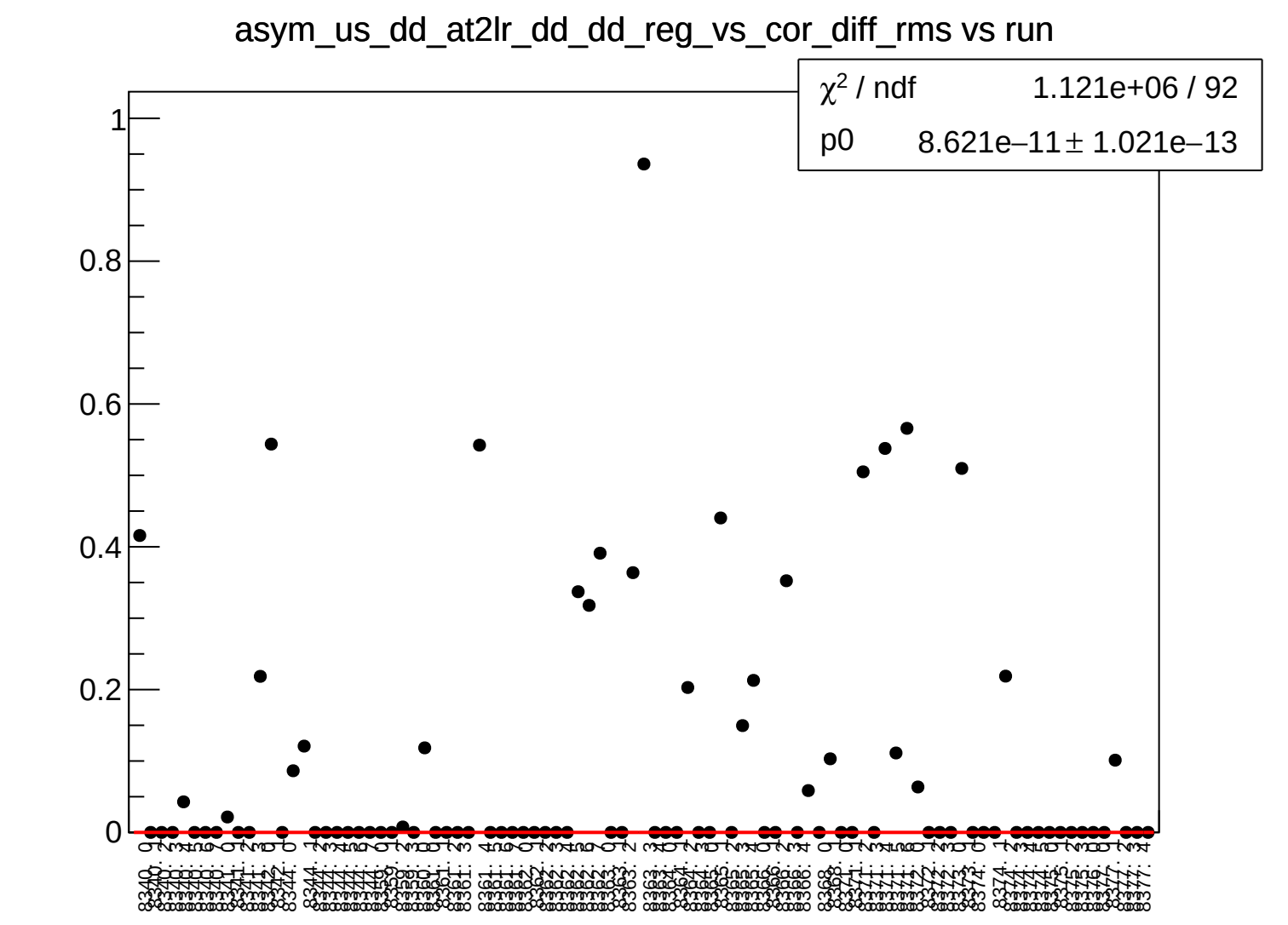

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 91.32 / 92
p0 2155 ± 2289
pull
Entries 93
Mean −186.9
Std Dev 0

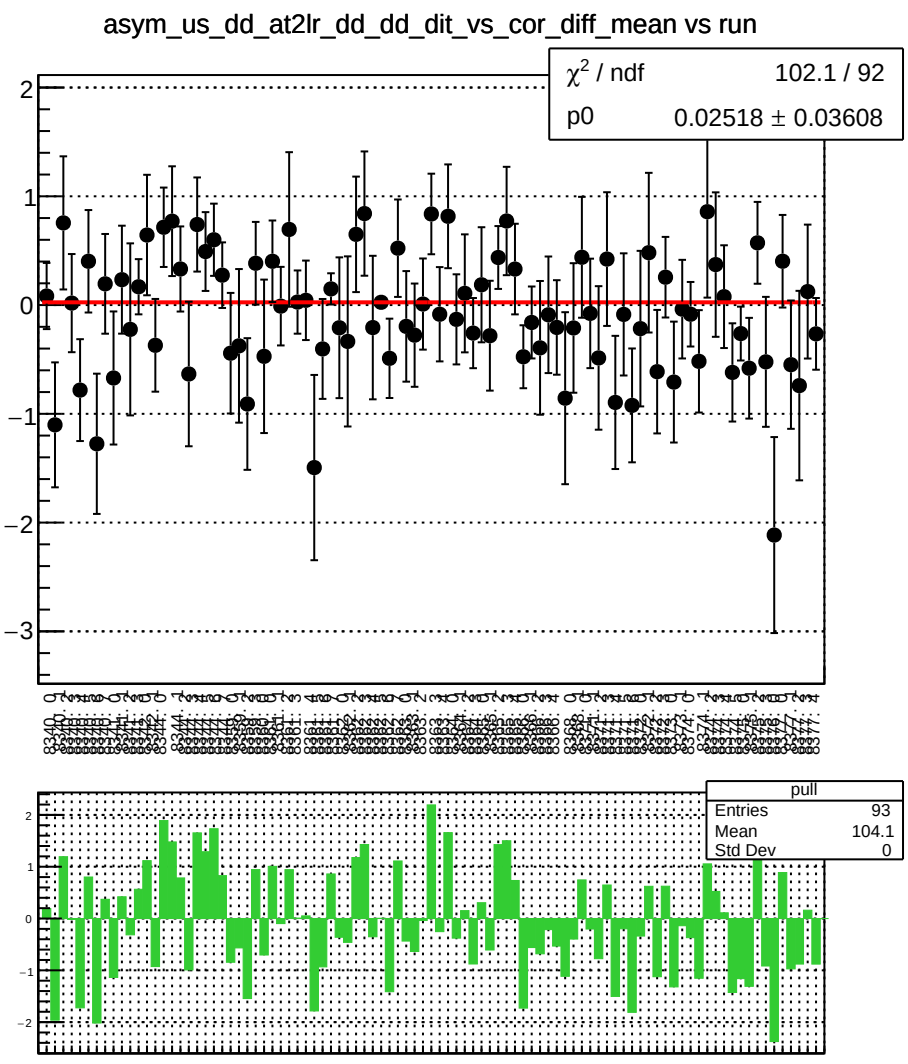

pull1D
Entries 93
Mean −0.01365
Std Dev 0.9908

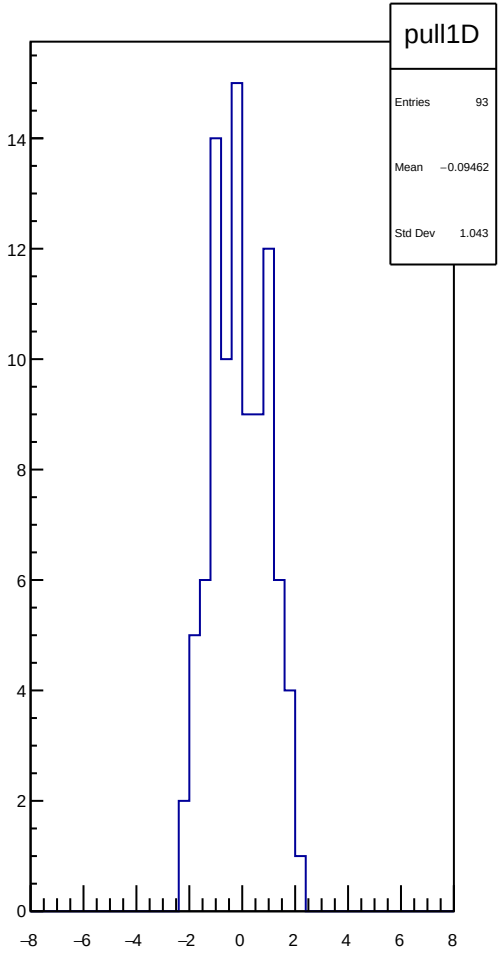

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 2002 / 92
p0 2190 ± 1.618
2350
2300
2250
2200
2150
2100
2050

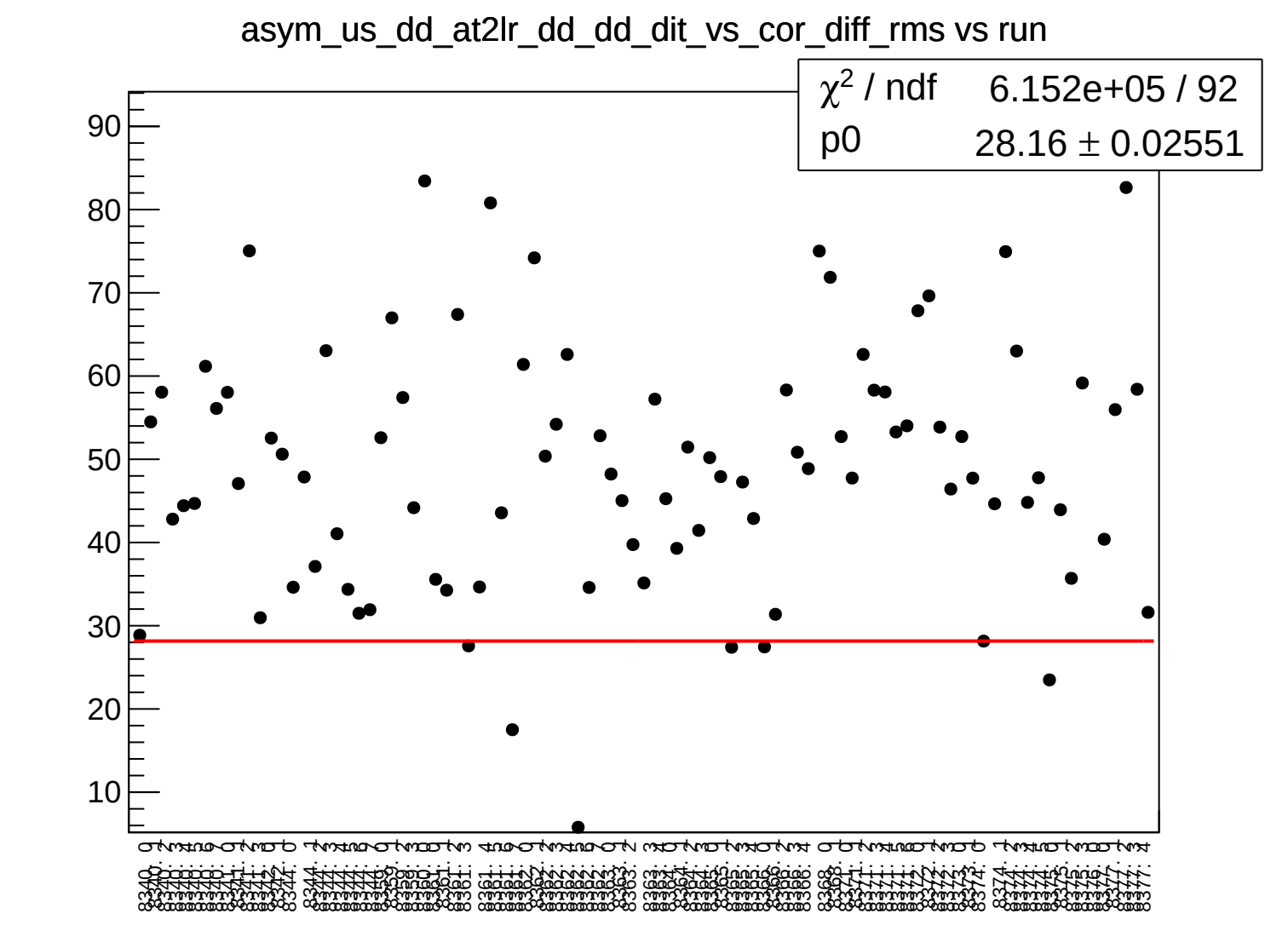

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 92
p0 −3.906e−14 ± 1.444e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 93
Mean 46.06
Std Dev 29.31
2
1
0
−1
−2

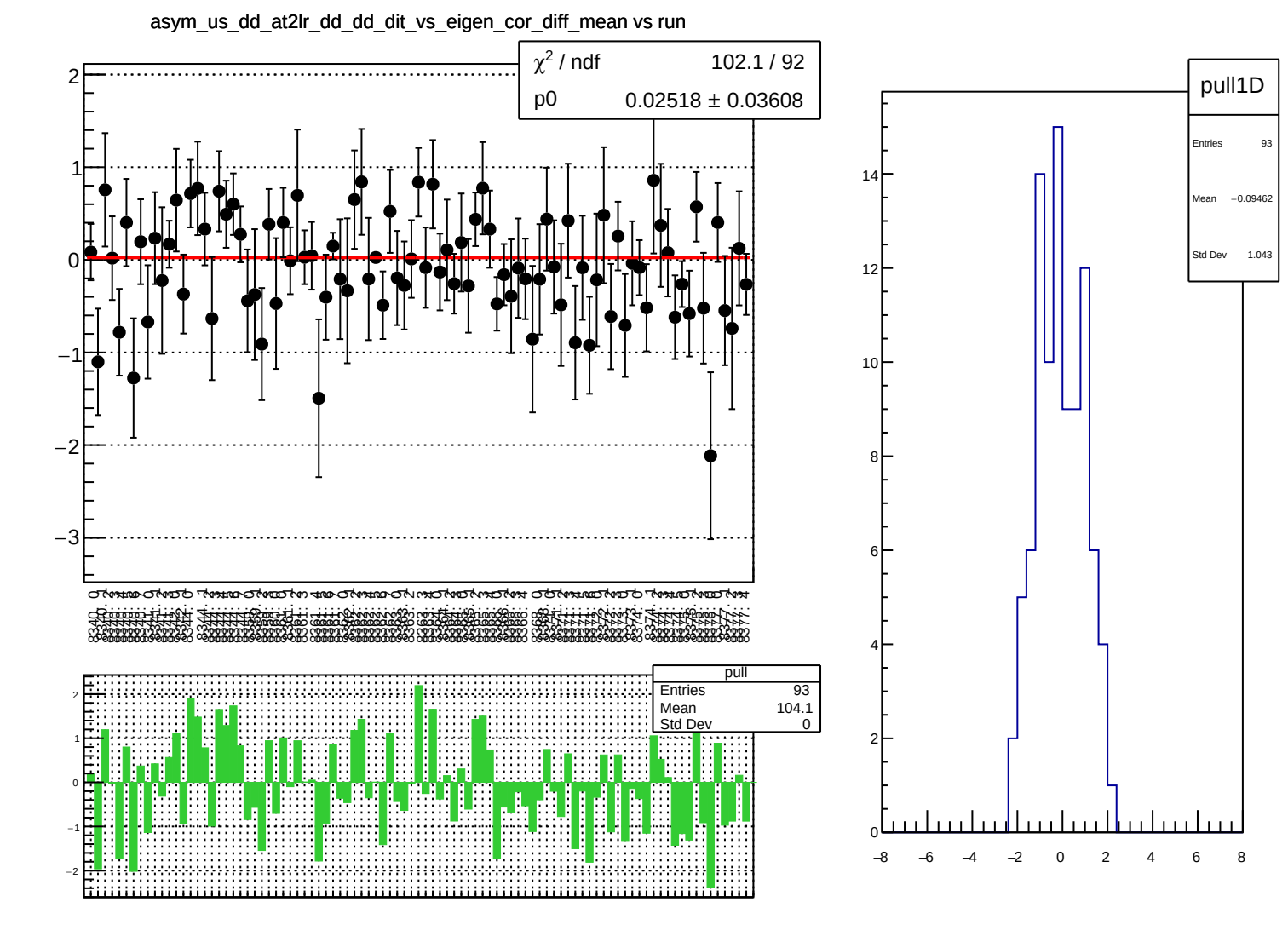

pull1D
Entries 93
Mean −0.0888
Std Dev 0.9428
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

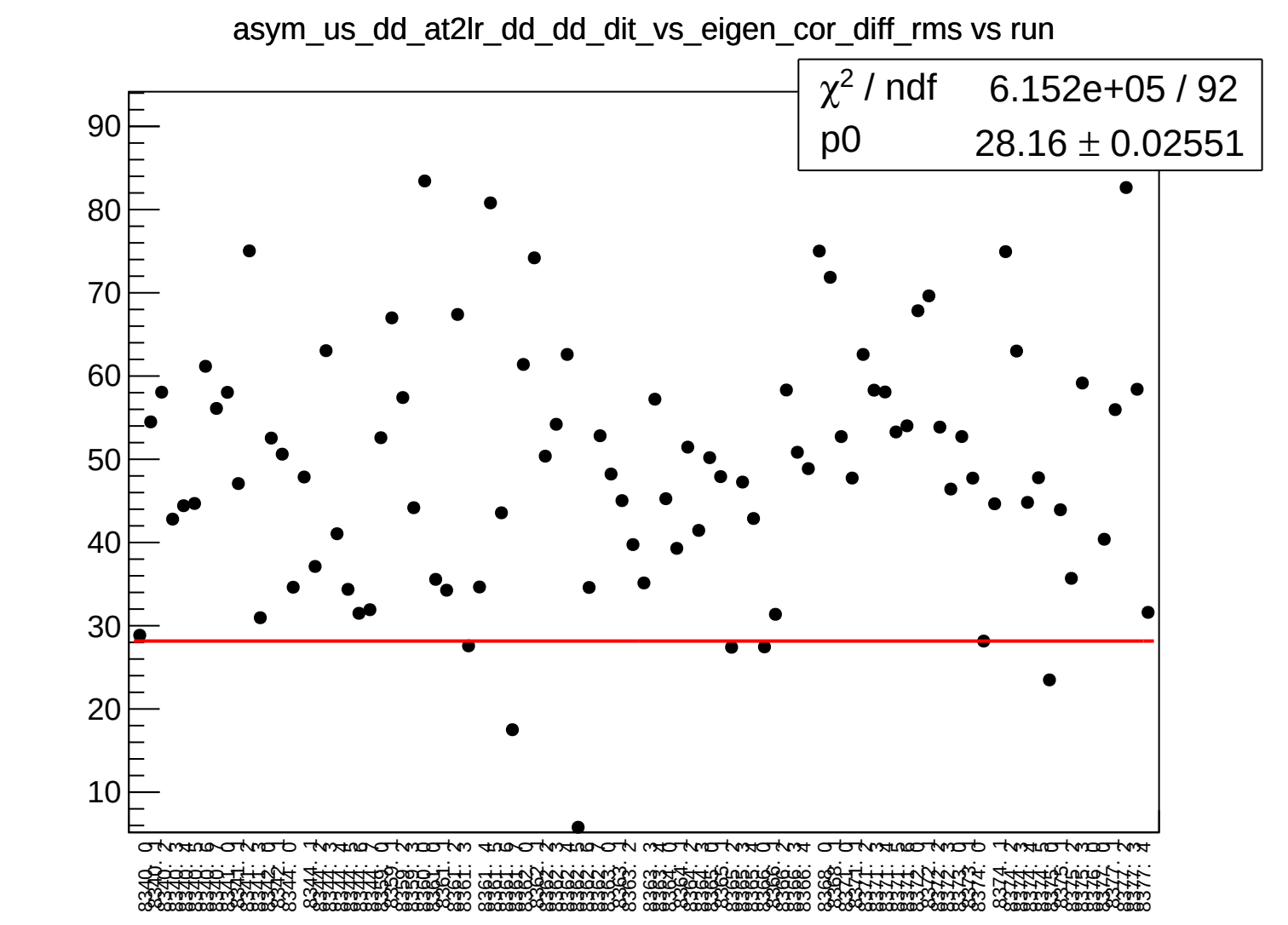

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 92
p0 8.621e−11 ± 1.021e−13
1
0.8
0.6
0.4
0.2
0

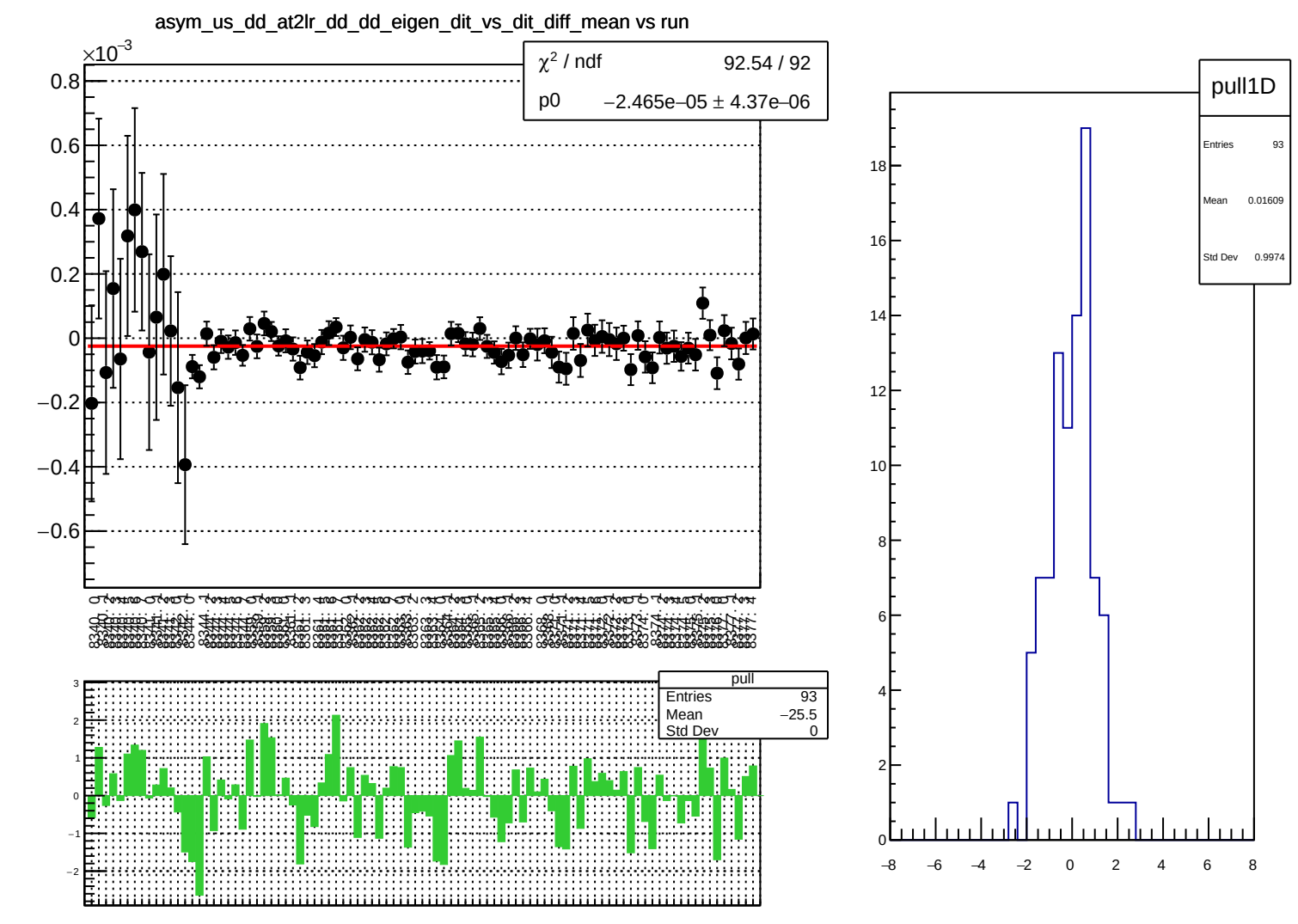

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 92
p0 0.02518 ± 0.03608
pull
Entries 93
Mean 104.1
Std Dev 0

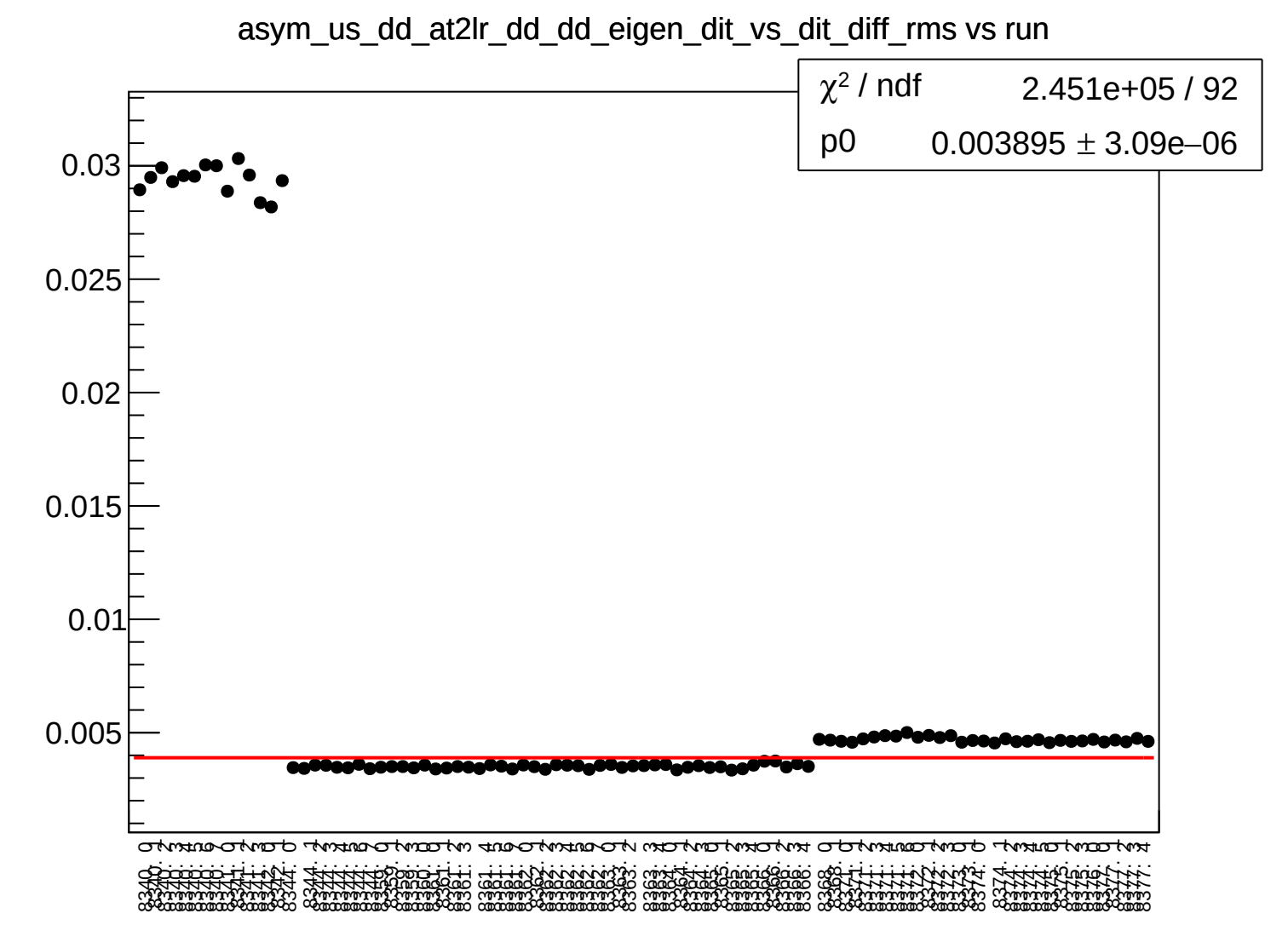

pull1D
Entries 93
Mean −0.09462
Std Dev 1.043

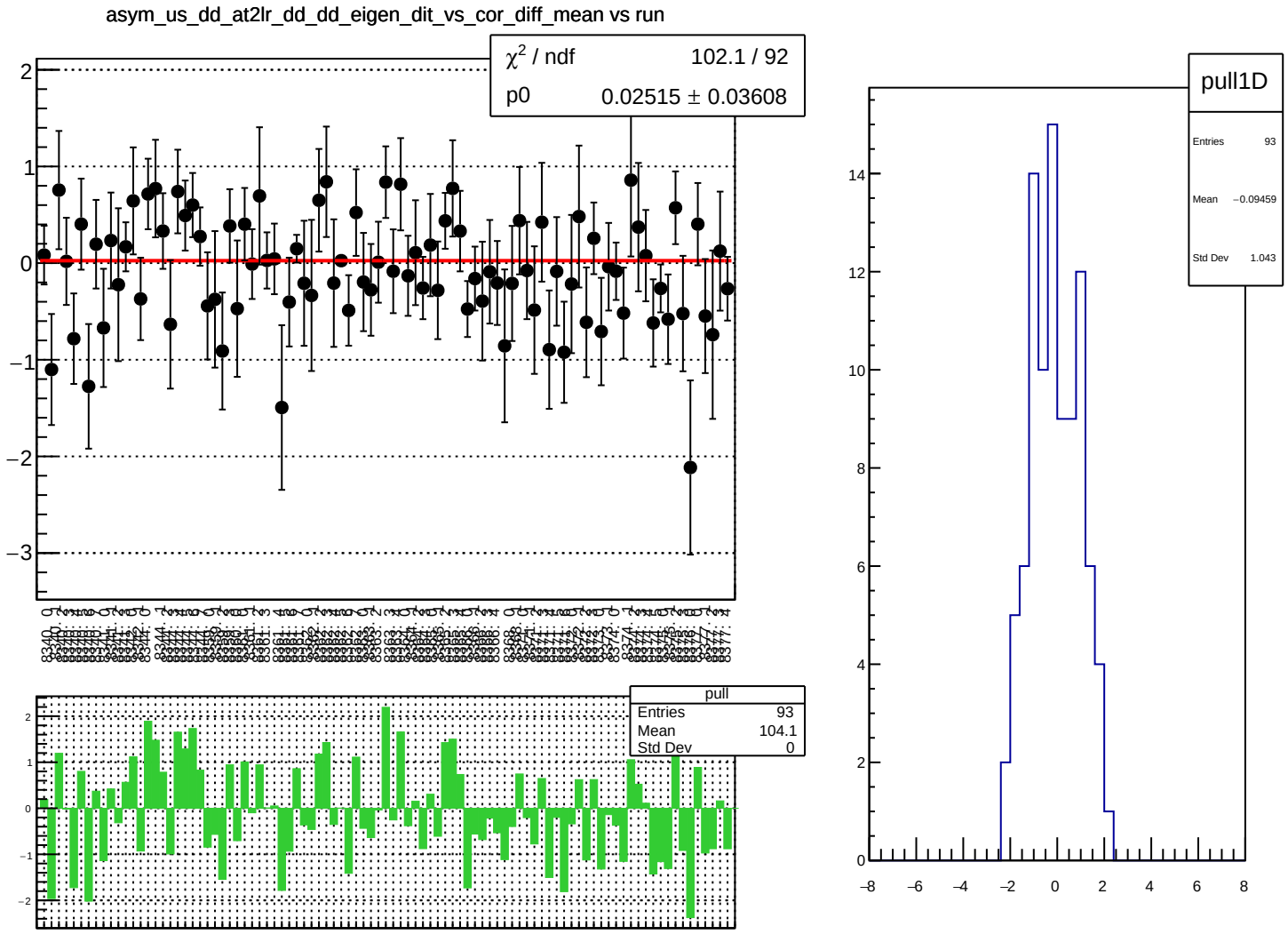

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.152e+05 / 92
p0 28.16 ± 0.02551
90
80
70
60
50
40
30
20
10

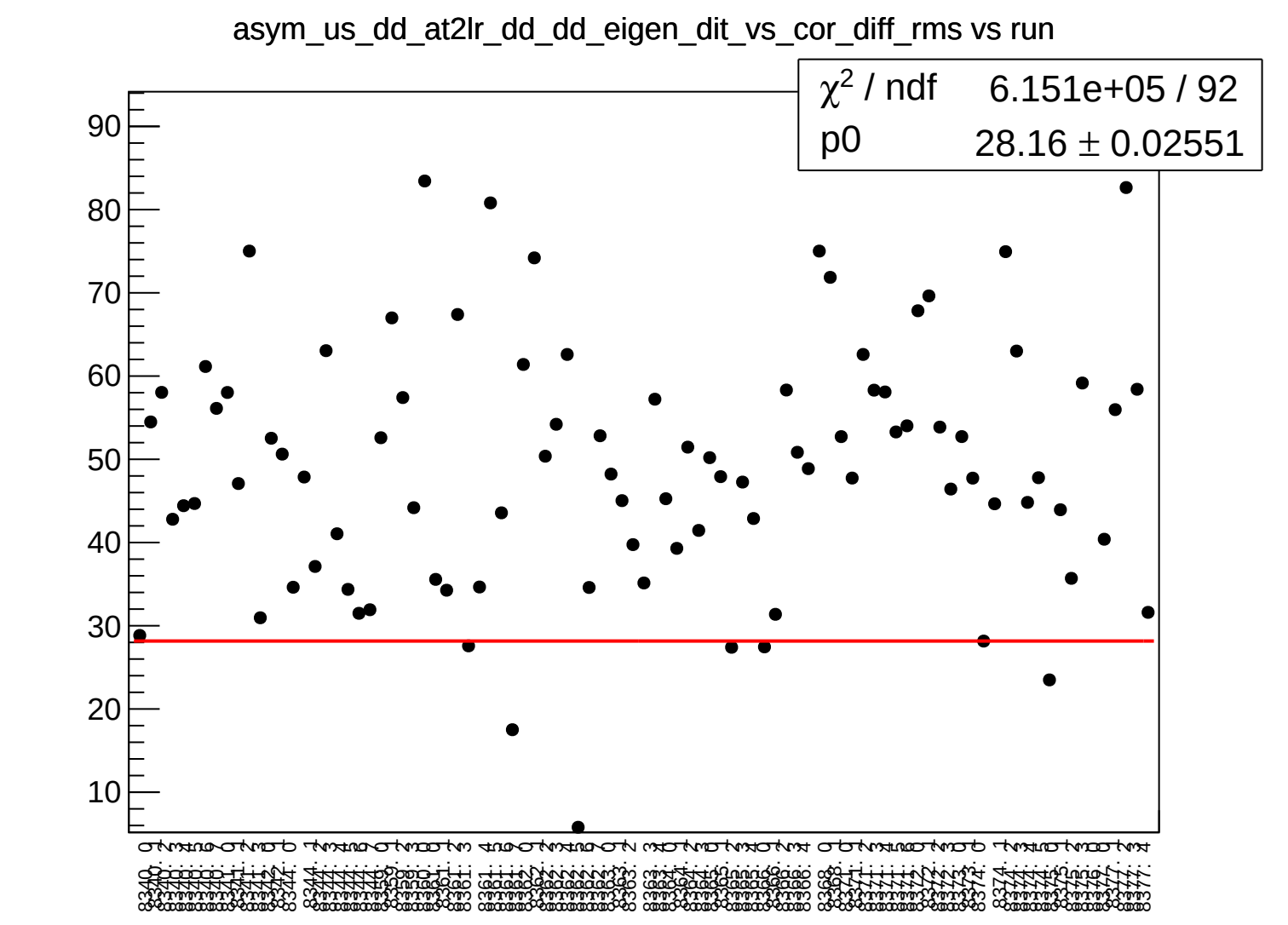

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 92
p0 0.02518 ± 0.03608
pull
Entries 93
Mean 104.1
Std Dev 0
pull1D
Entries 93
Mean −0.09462
Std Dev 1.043

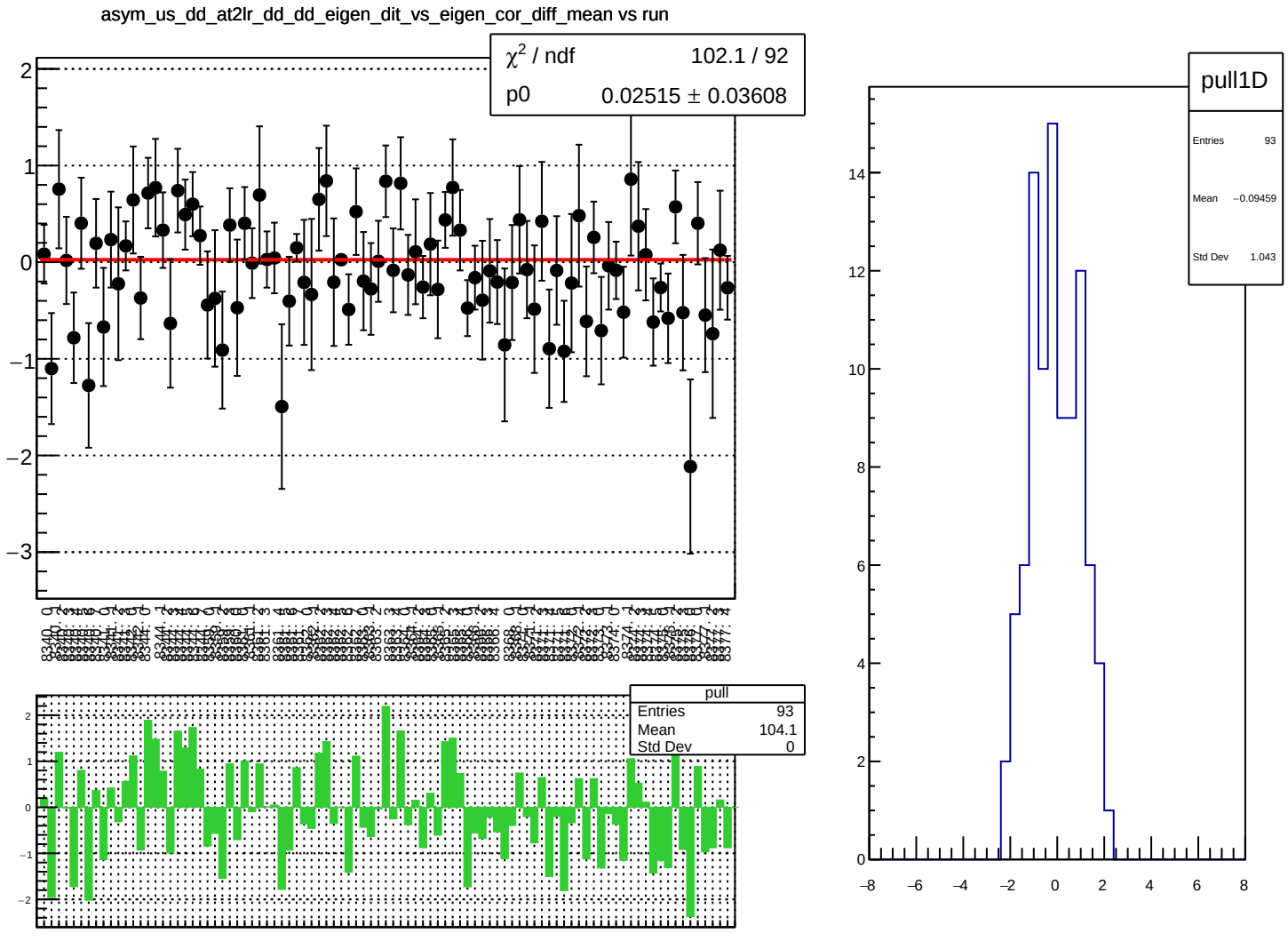

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.152e+05 / 92
p0 28.16 ± 0.02551
90
80
70
60
50
40
30
20
10

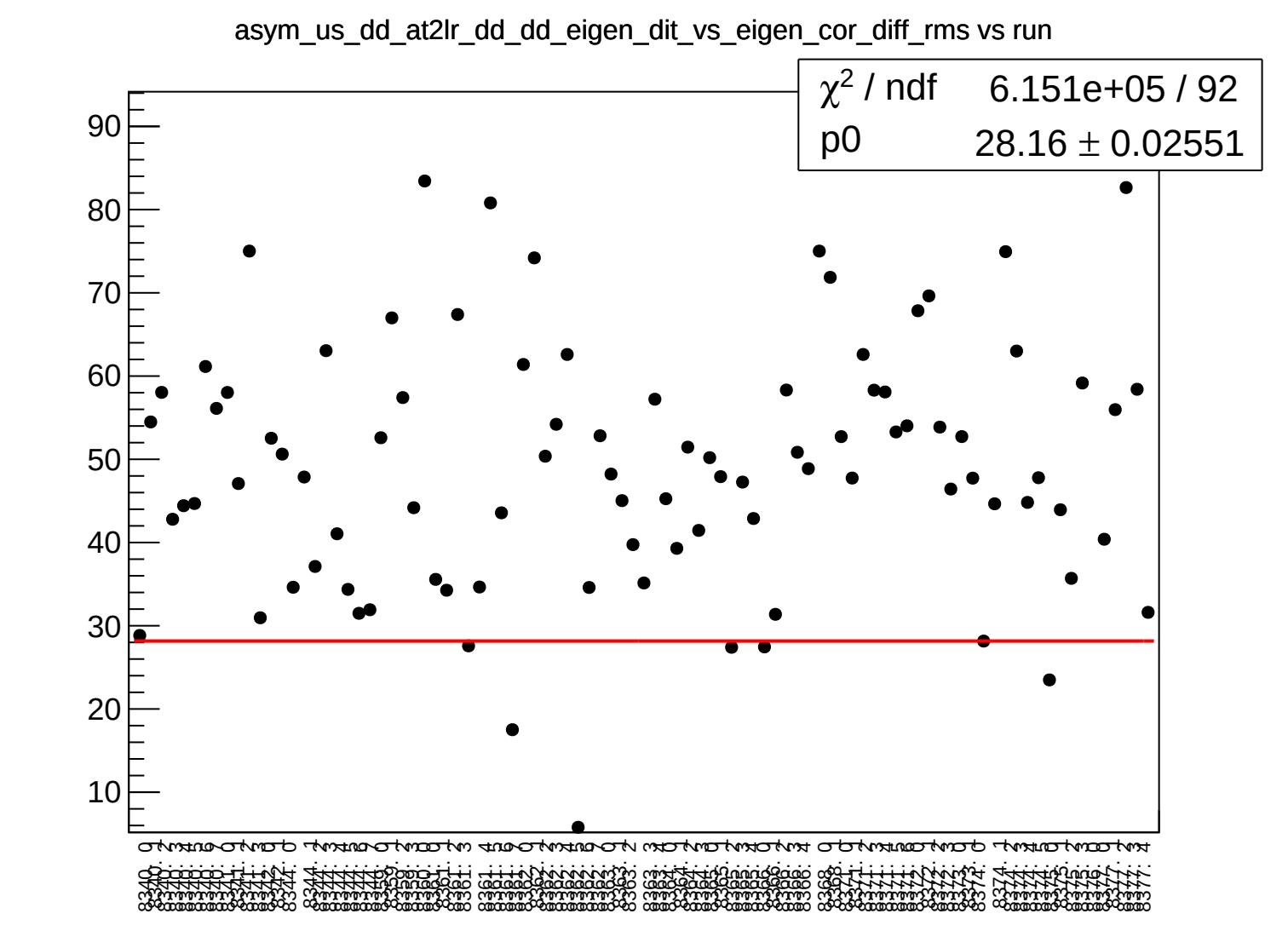

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.54 / 92
p0 −2.465e−05 ± 4.37e−06
pull
Entries 93
Mean −25.5
Std Dev 0
pull1D
Entries 93
Mean 0.01609
Std Dev 0.9974

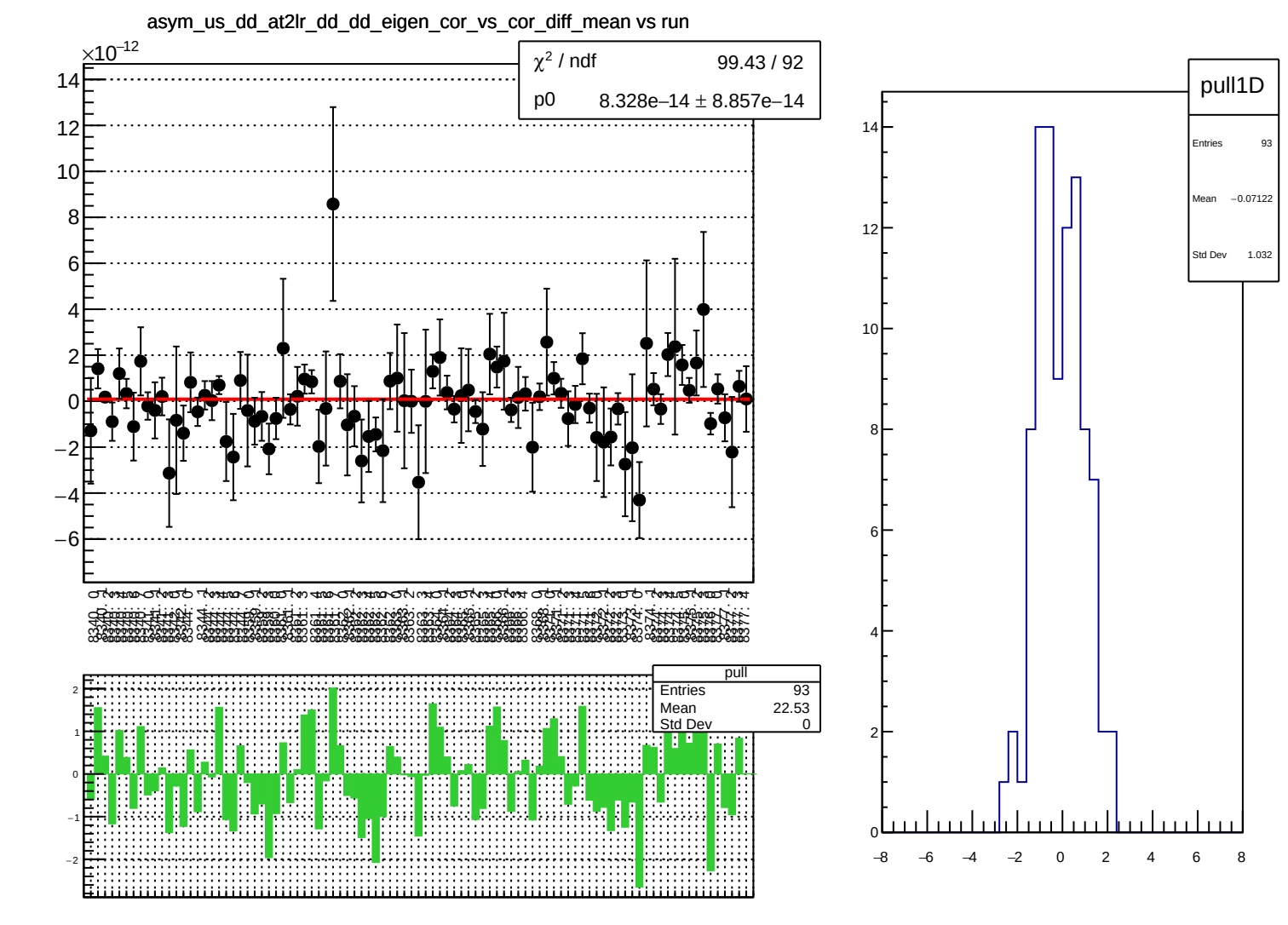

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.451e+05 / 92
p0 0.003895 ± 3.09e−06
0.03
0.025
0.02
0.015
0.01
0.005

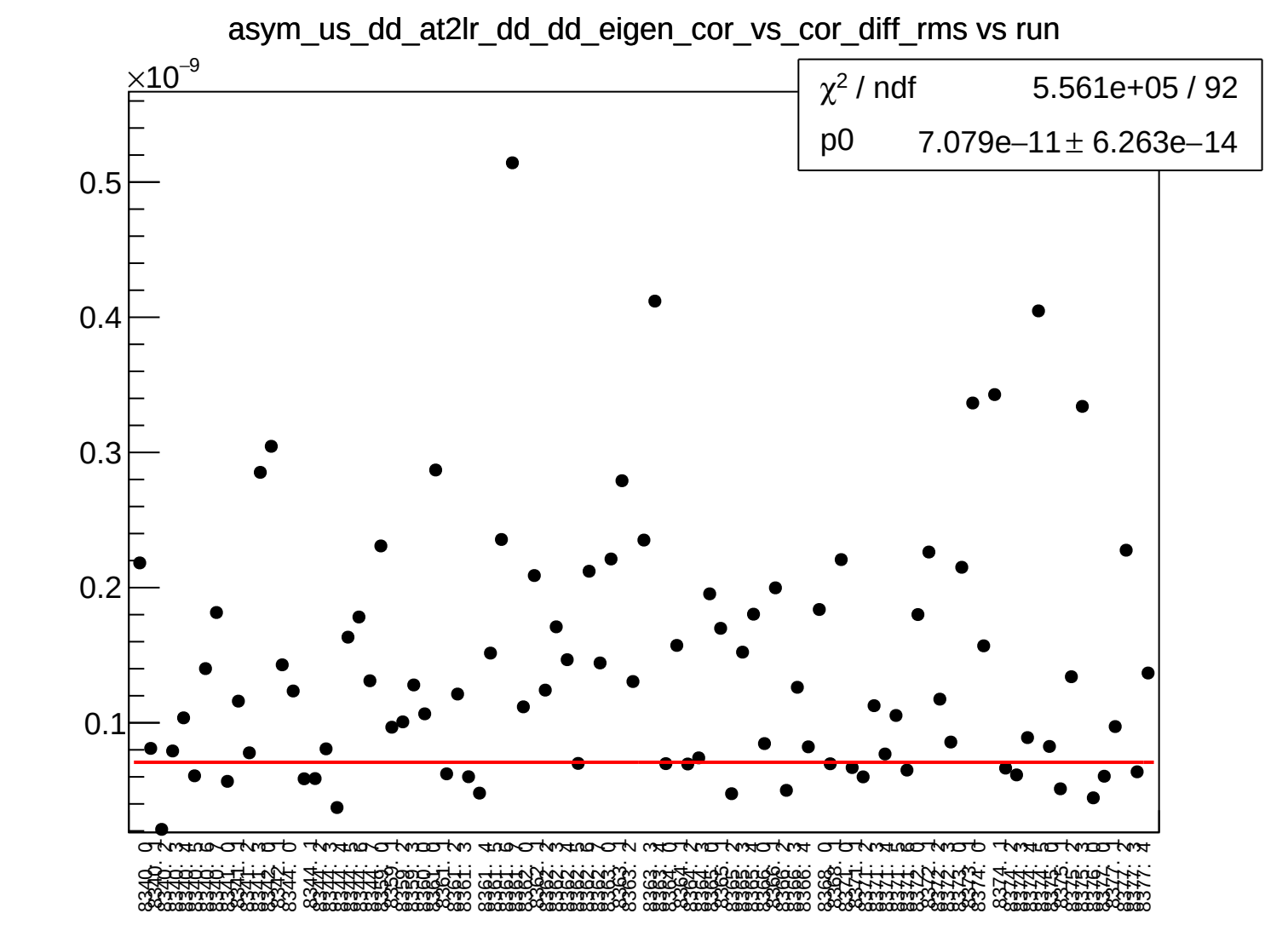

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 92
p0 0.02515 ± 0.03608
pull
Entries 93
Mean 104.1
Std Dev 0
pull1D
Entries 93
Mean −0.09459
Std Dev 1.043

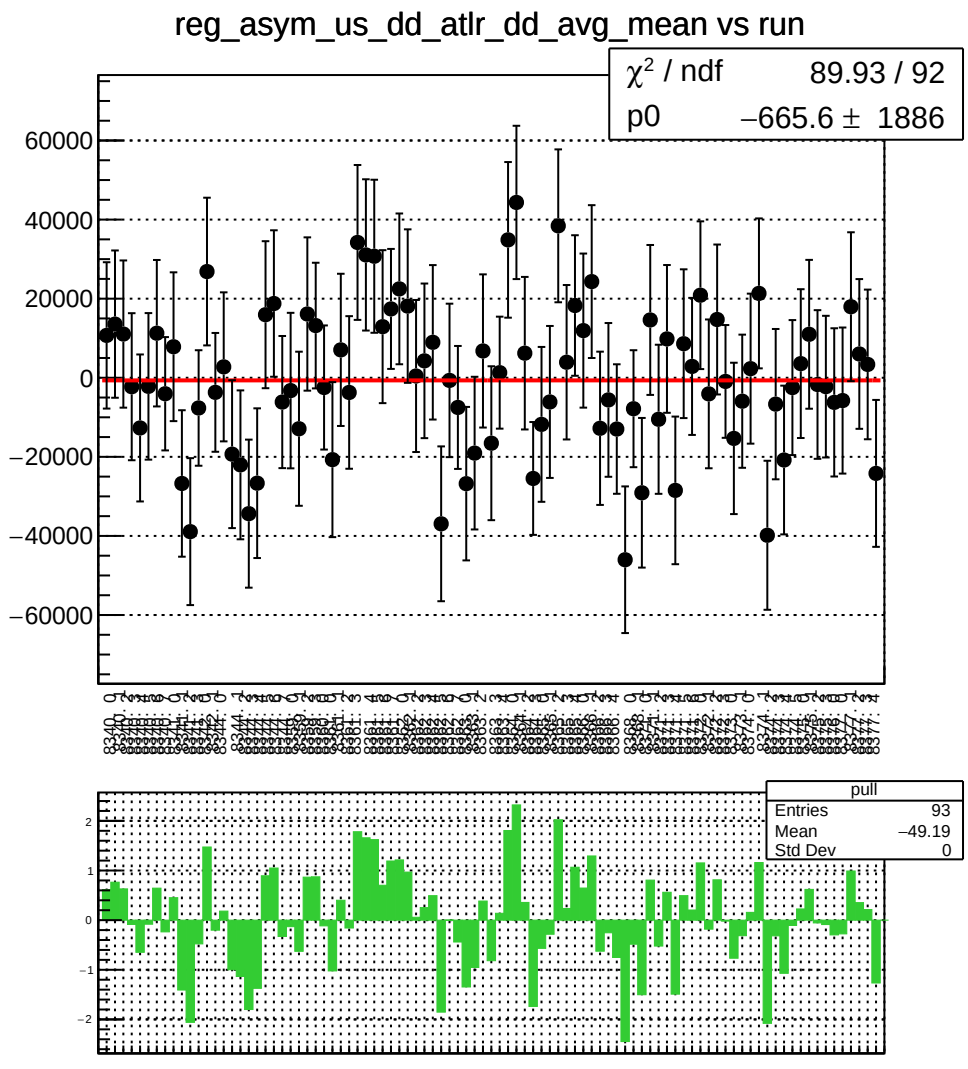

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.151e+05 / 92
p0 28.16 ± 0.02551
90
80
70
60
50
40
30
20
10

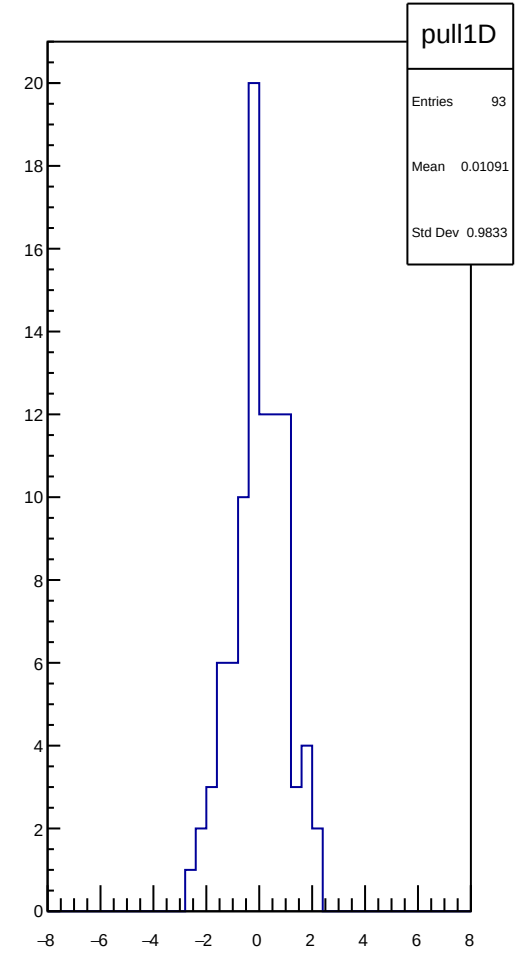

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 92
p0 0.02515 ± 0.03608
pull
Entries 93
Mean 104.1
Std Dev 0
pull1D
Entries 93
Mean −0.09459
Std Dev 1.043

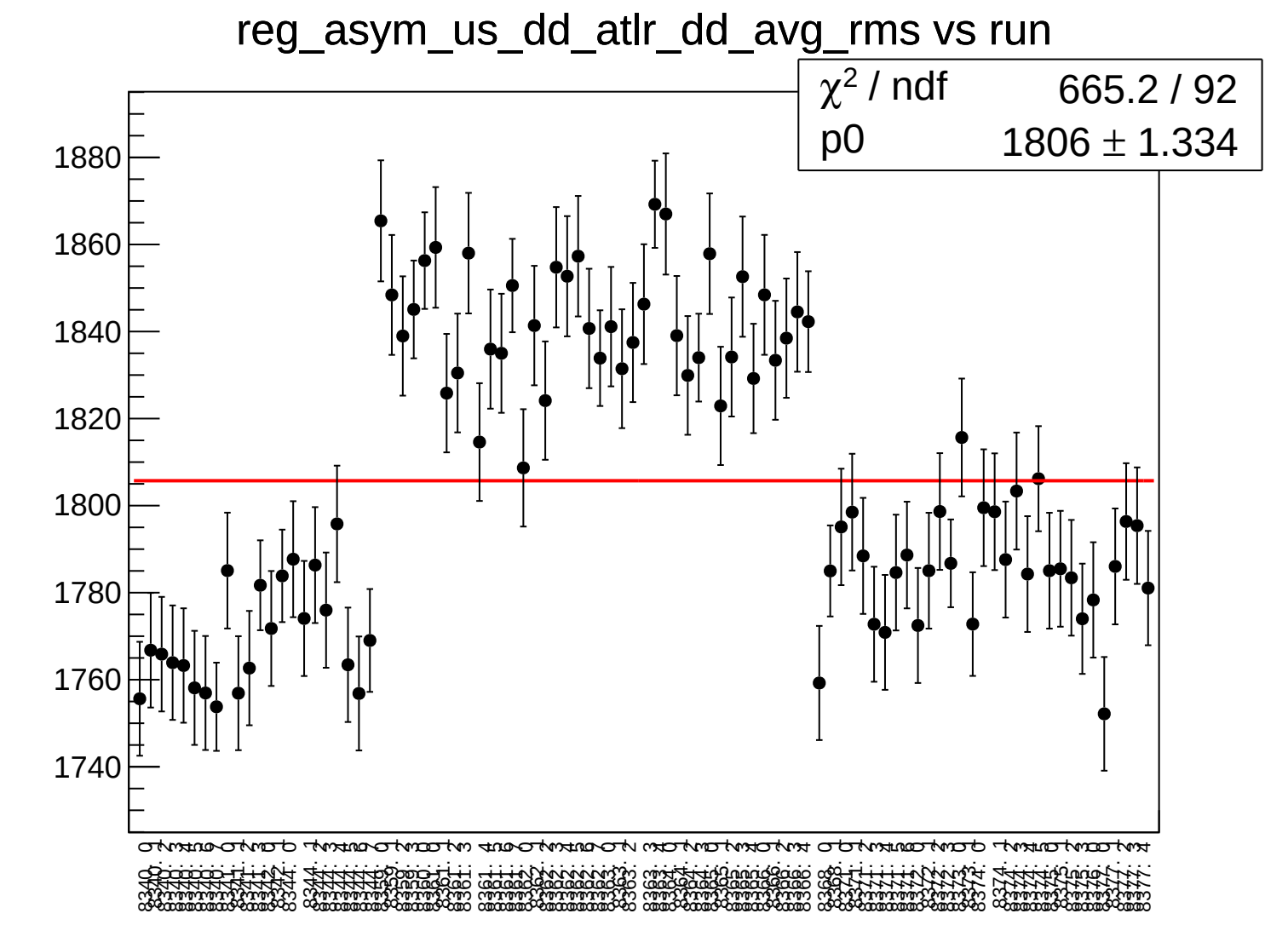

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.151e+05 / 92
p0 28.16 ± 0.02551
90
80
70
60
50
40
30
20
10

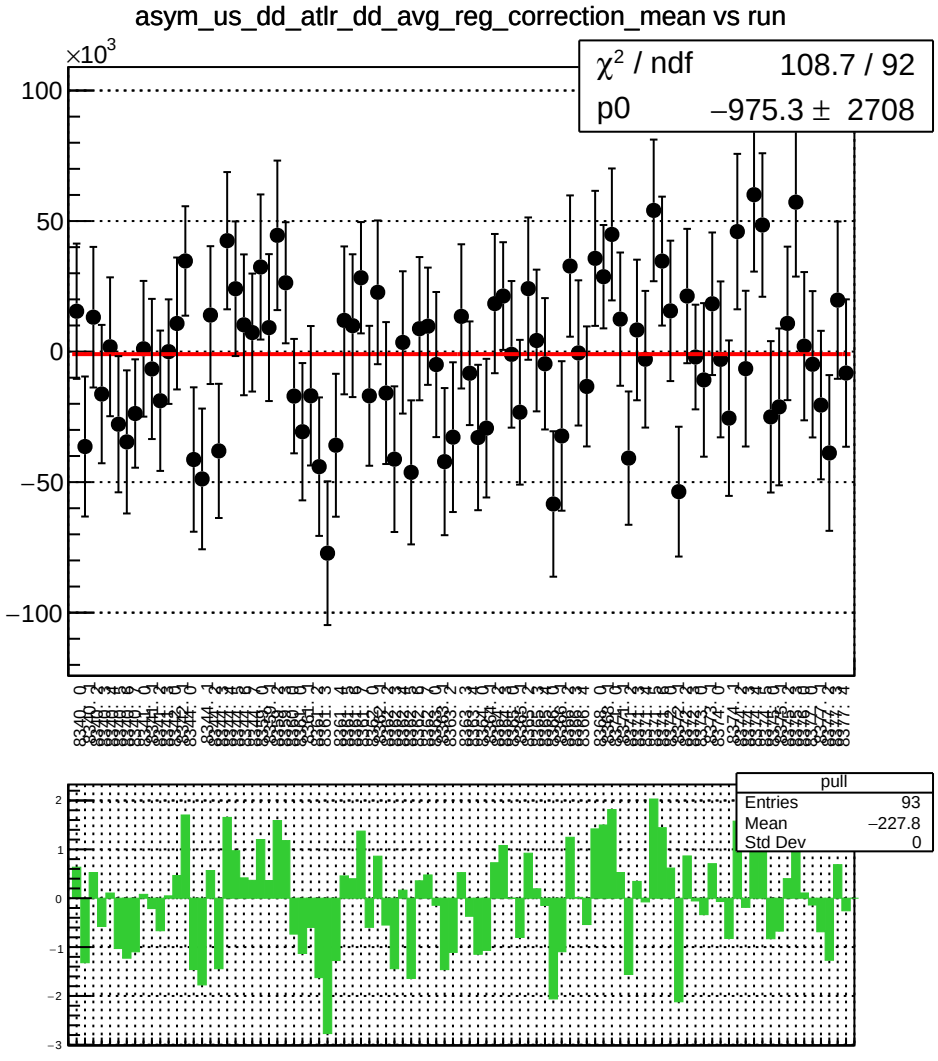

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.43 / 92
p0 8.328e−14 ± 8.857e−14
pull
Entries 93
Mean 22.53
Std Dev 0
pull1D
Entries 93
Mean −0.07122
Std Dev 1.032

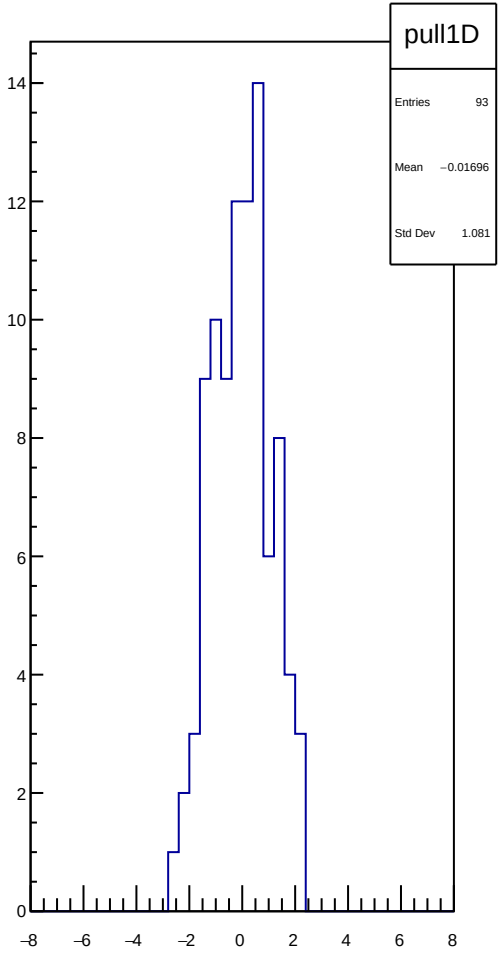

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.561e+05 / 92
p0 7.079e−11 ± 6.263e−14
0.5
0.4
0.3
0.2
0.1

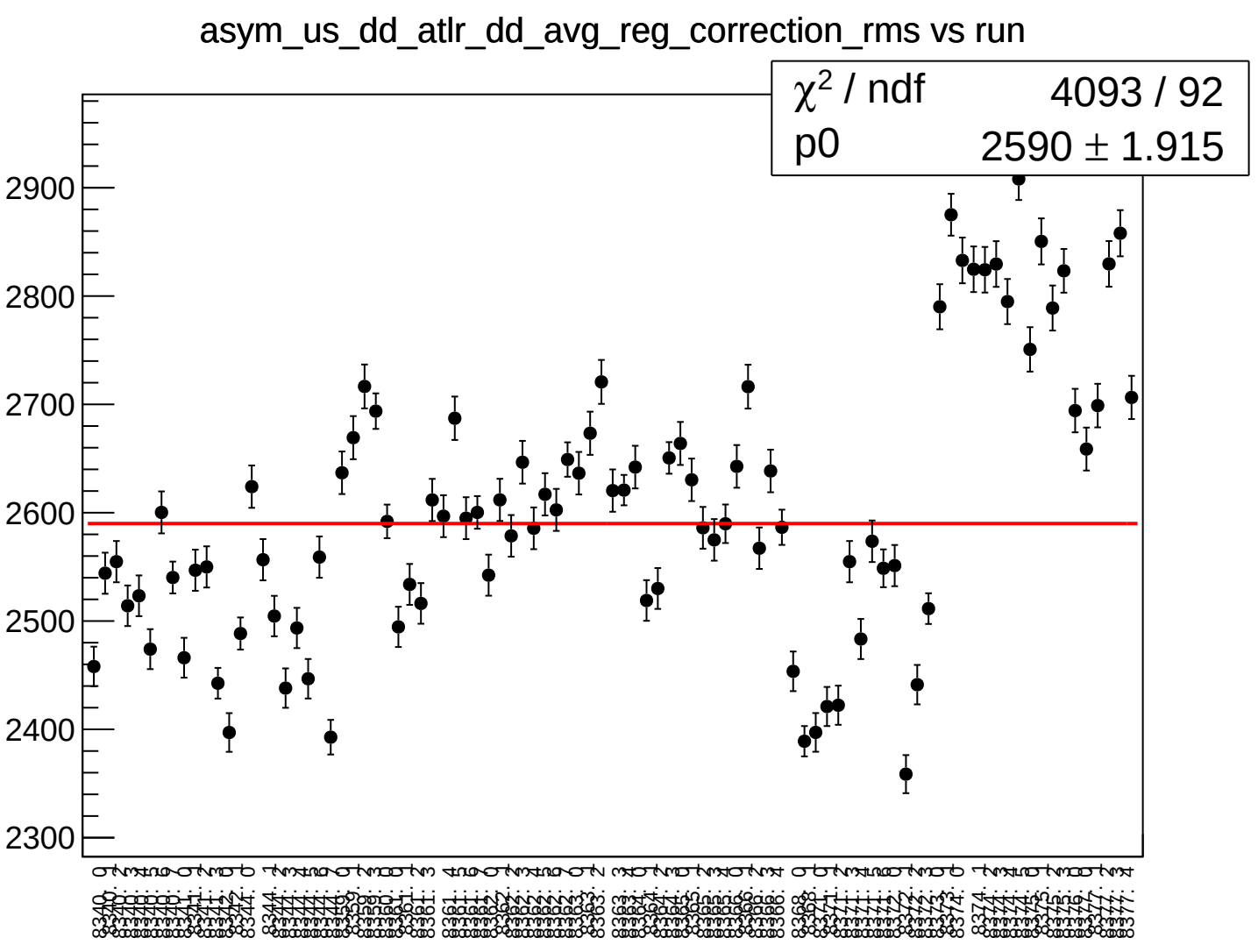

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.93 / 92
p0 −665.6 ± 1886
pull
Entries 93
Mean −49.19
Std Dev 0

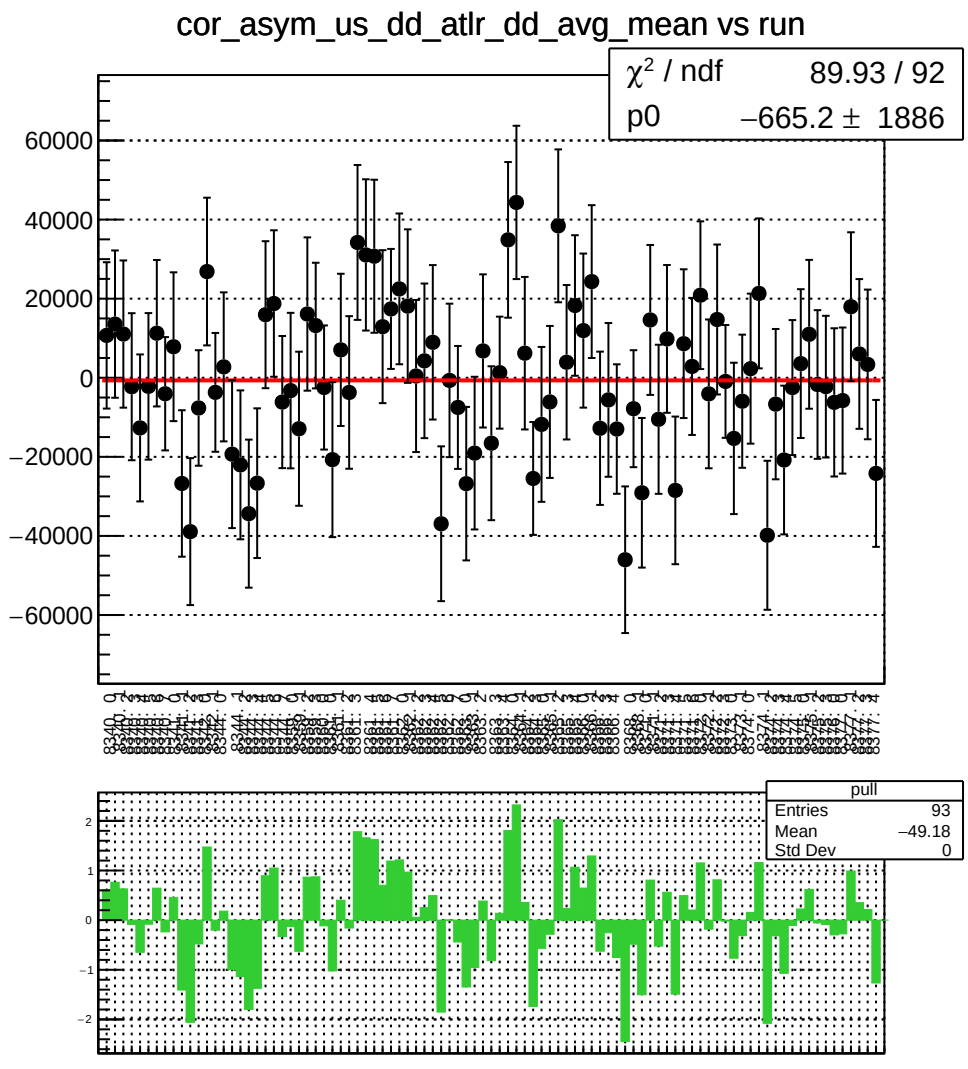

pull1D
Entries 93
Mean 0.01091
Std Dev 0.9833

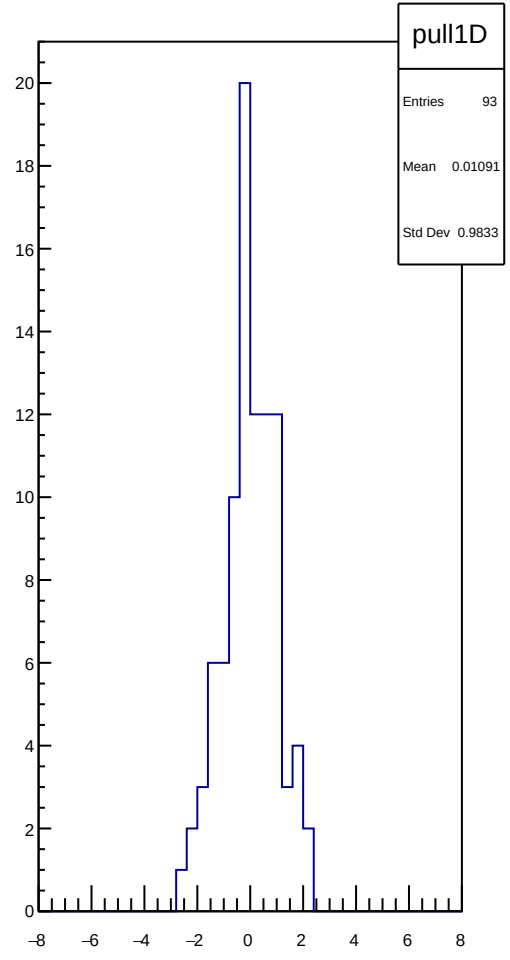

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 665.2 / 92
p0 1806 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740

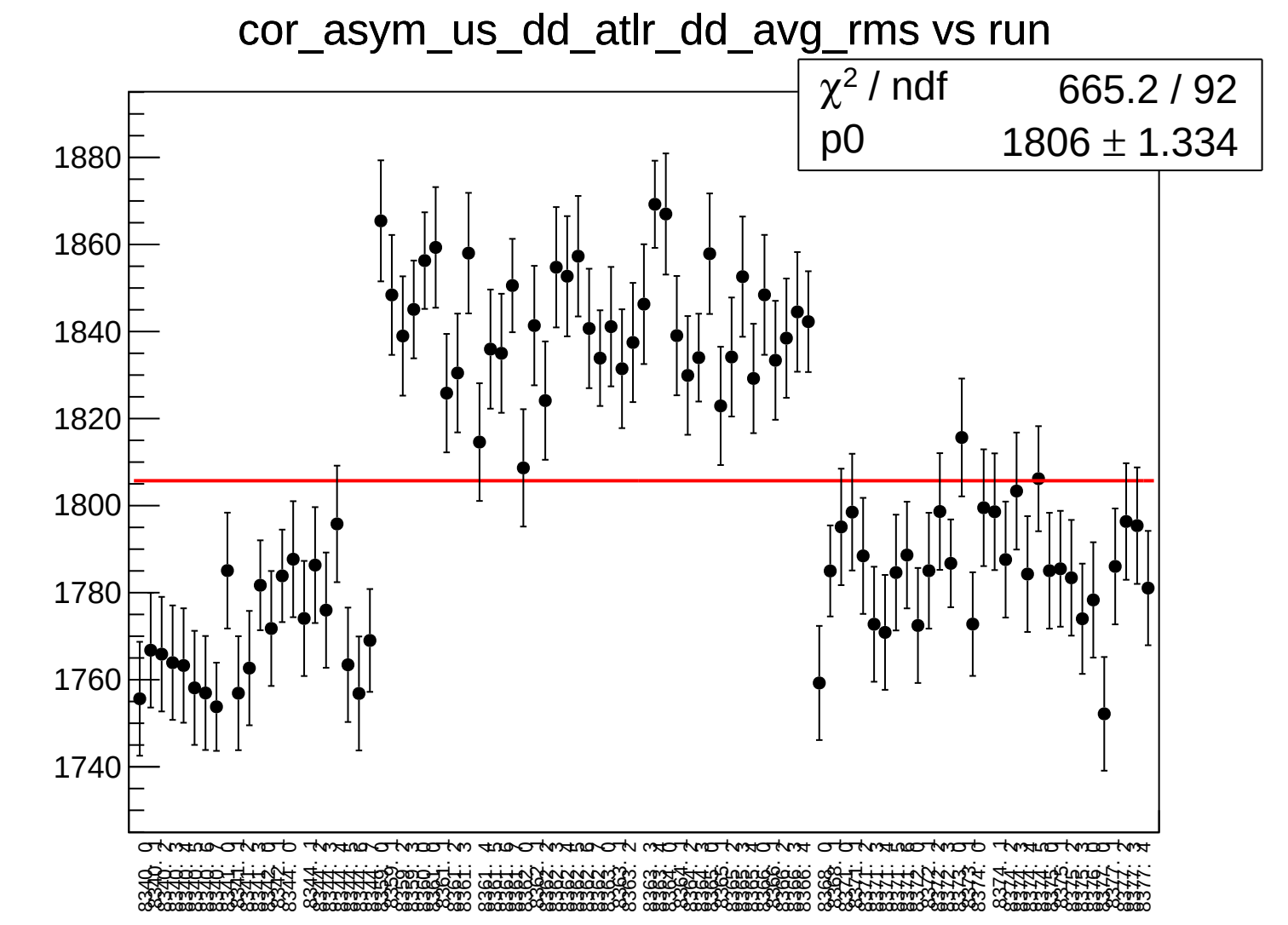

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 108.7 / 92
p0 −975.3 ± 2708
100
50
0
−50
−100
pull
Entries 93
Mean −227.8
Std Dev 0
2
1
0
−1
−2
−3

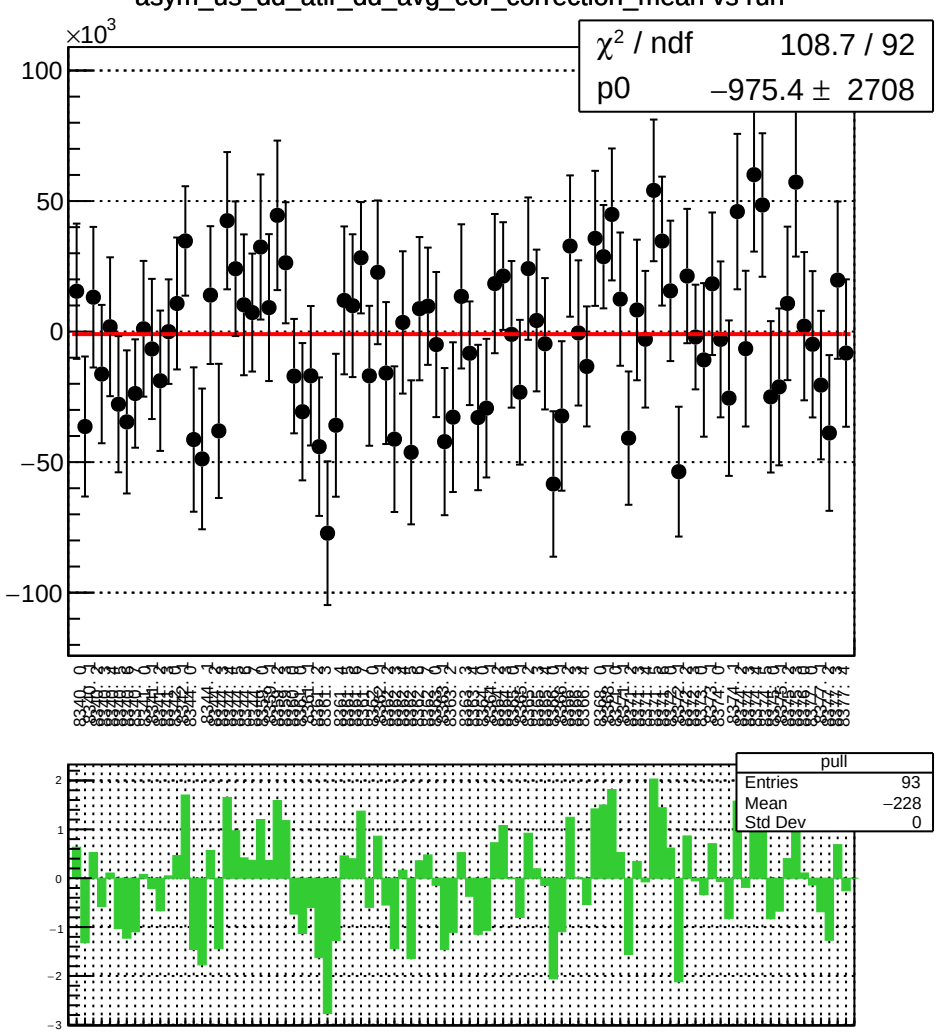

pull1D
Entries 93
Mean −0.01696
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

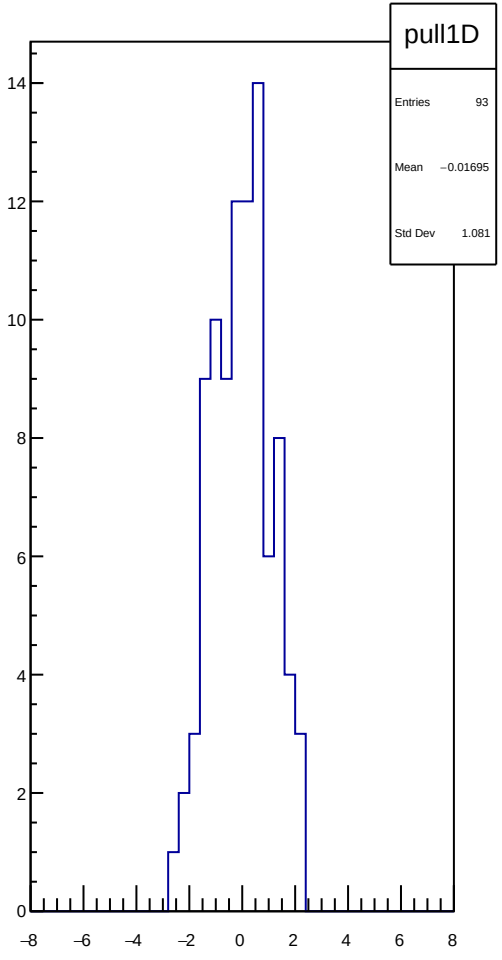

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4093 / 92
p0 2590 ± 1.915
2900
2800
2700
2600
2500
2400
2300

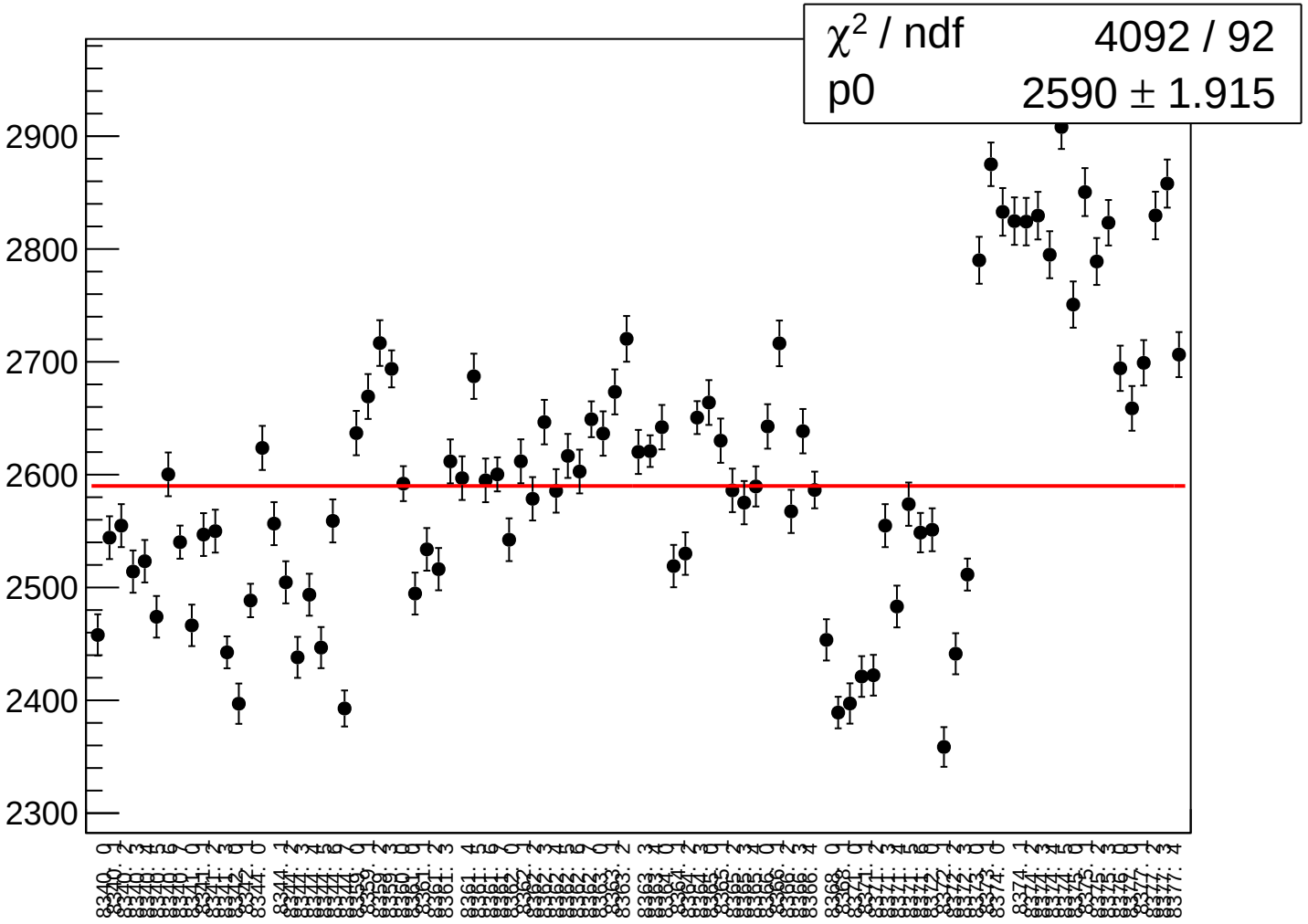

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.93 / 92
p0 −665.2 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −49.18
Std Dev 0
2
1
0
−1
−2

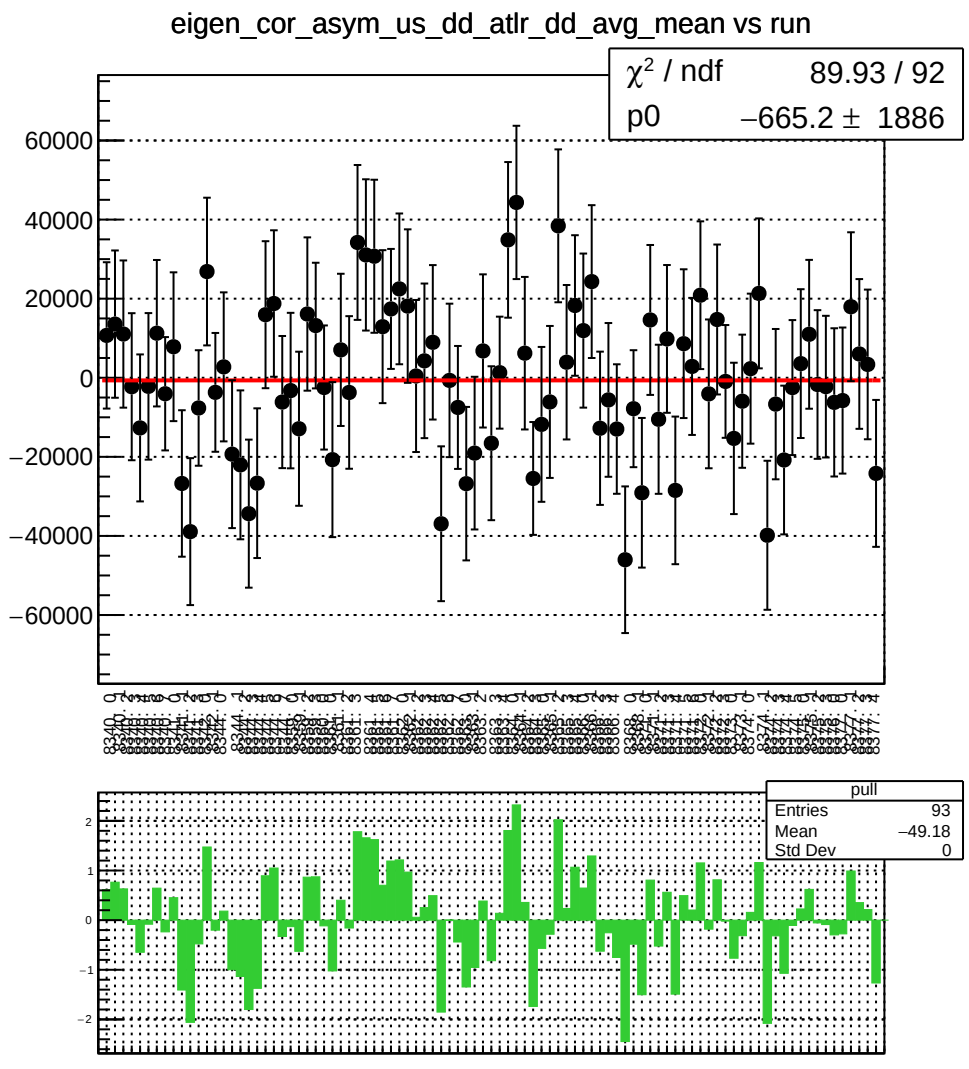

pull1D
Entries 93
Mean 0.01091
Std Dev 0.9833
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

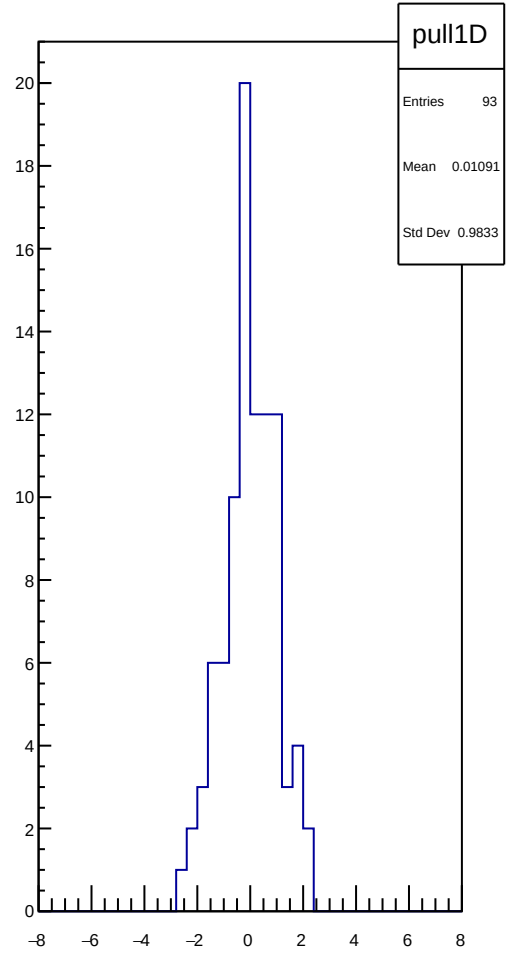

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 665.2 / 92
p0 1806 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740

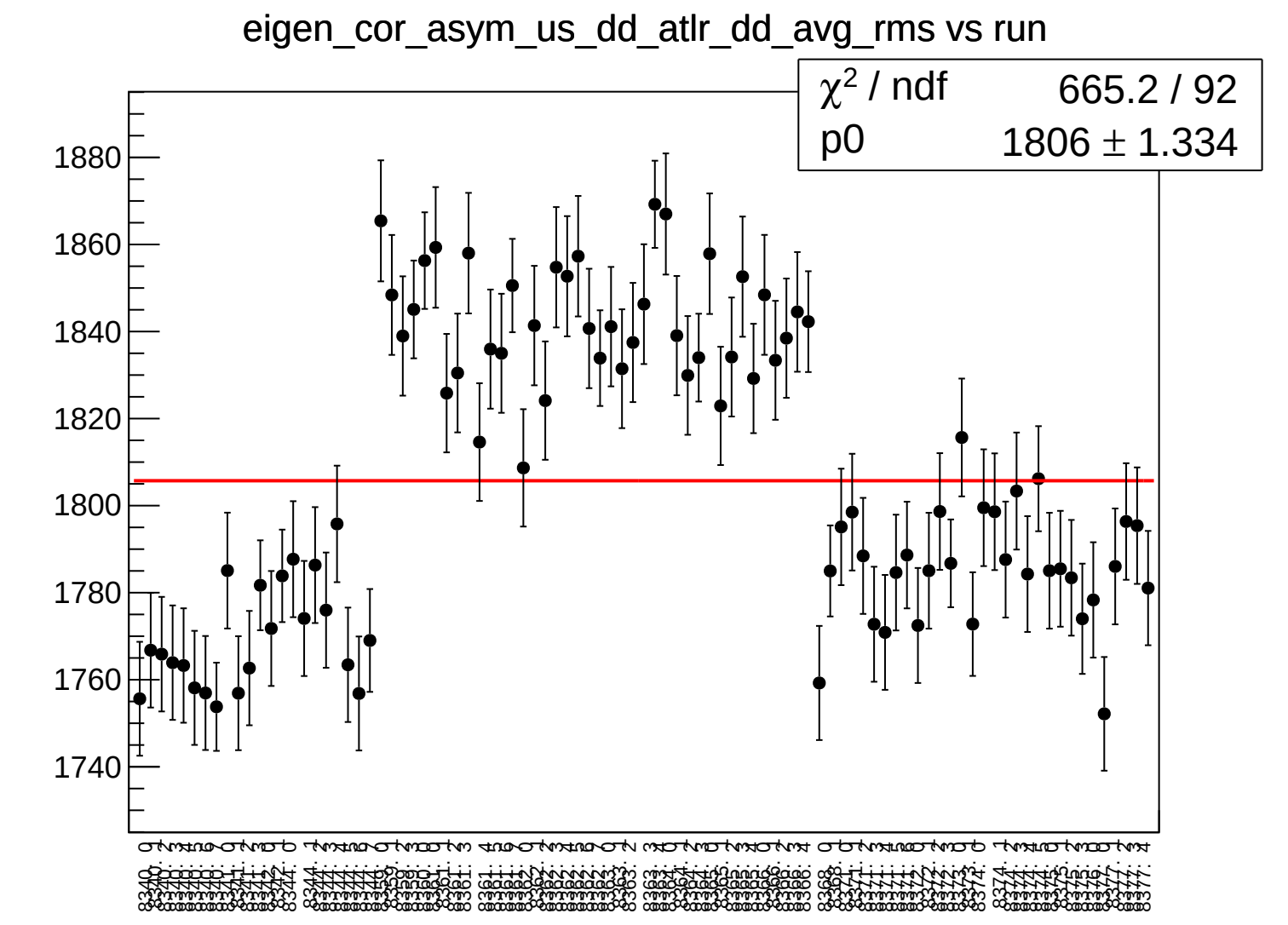

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.7 / 92
p0 −975.4 ± 2708
pull
Entries 93
Mean −228
Std Dev 0

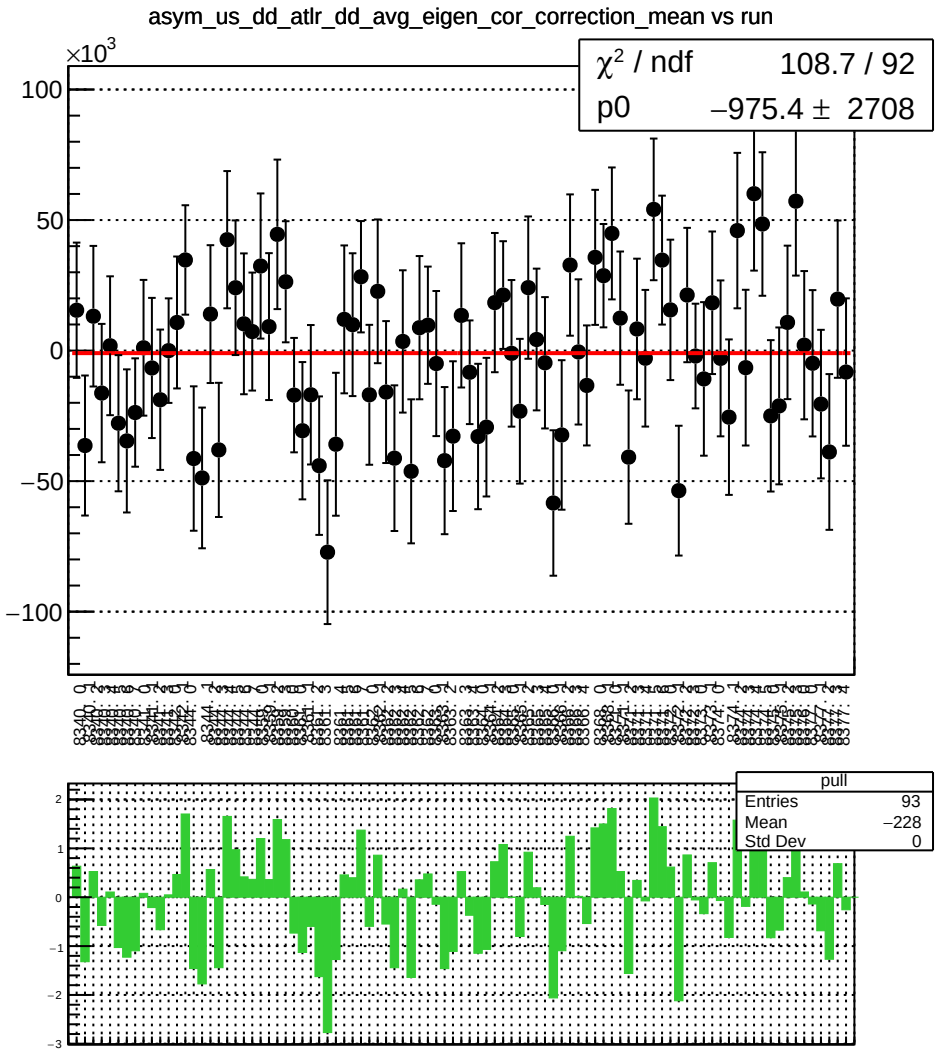

pull1D
Entries 93
Mean −0.01695
Std Dev 1.081

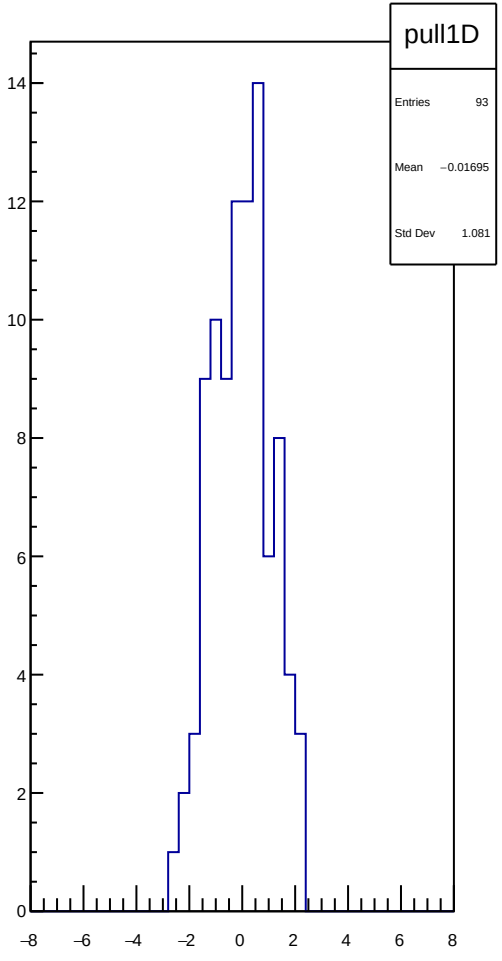

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4092 / 92
p0 2590 ± 1.915
2900
2800
2700
2600
2500
2400
2300

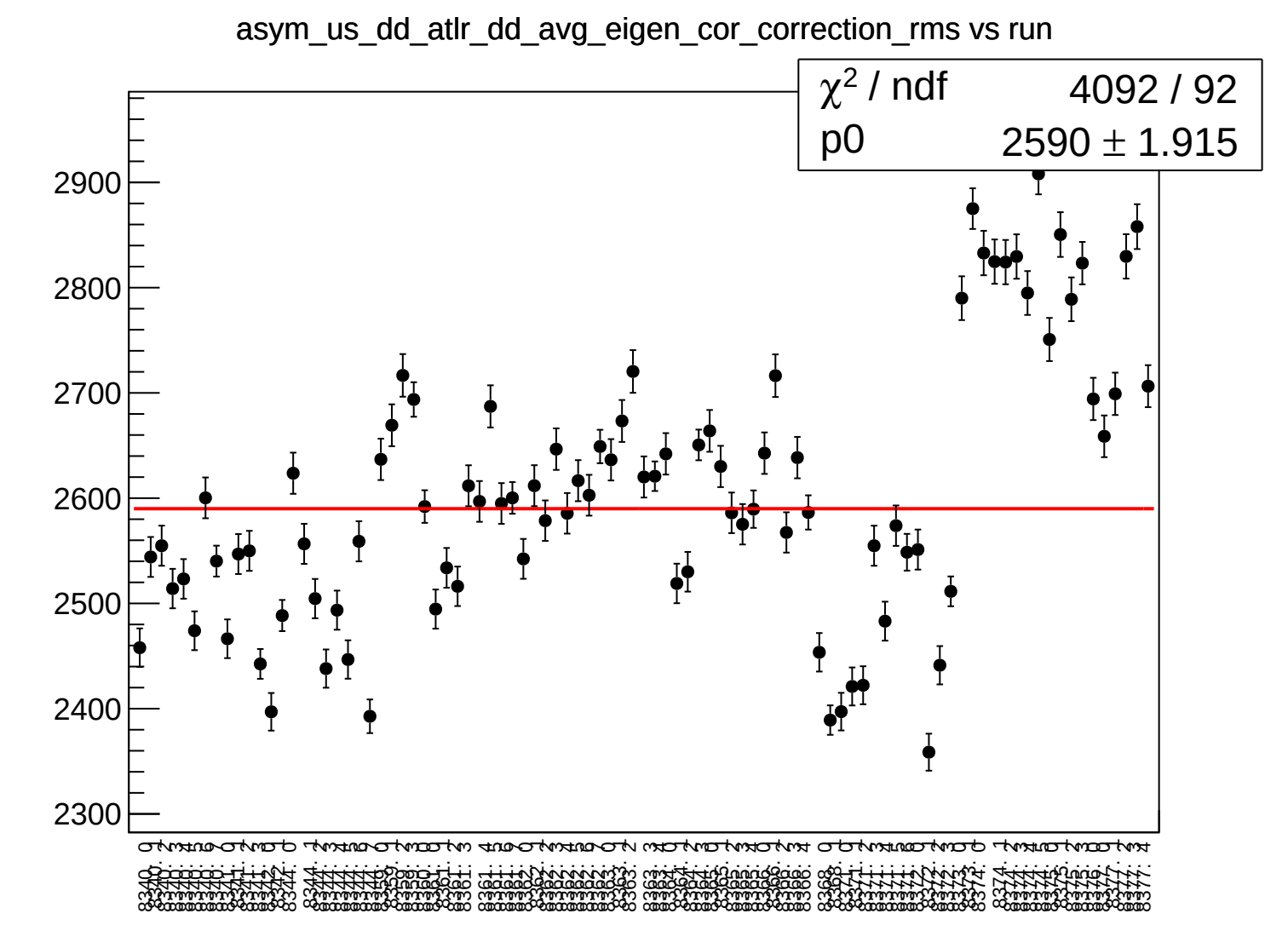

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.93 / 92
p0 −665.2 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −49.18
Std Dev 0
2
1
0
−1
−2

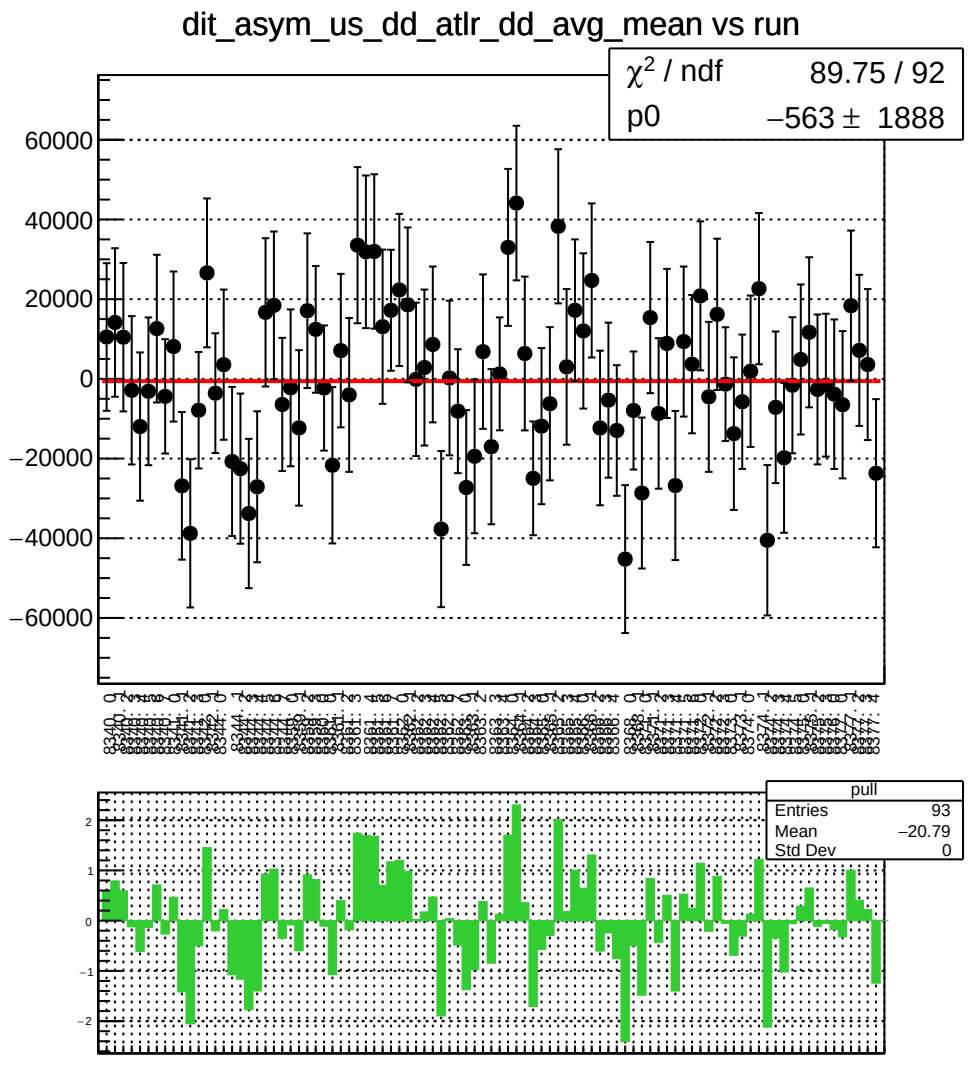

pull1D
Entries 93
Mean 0.01091
Std Dev 0.9833
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

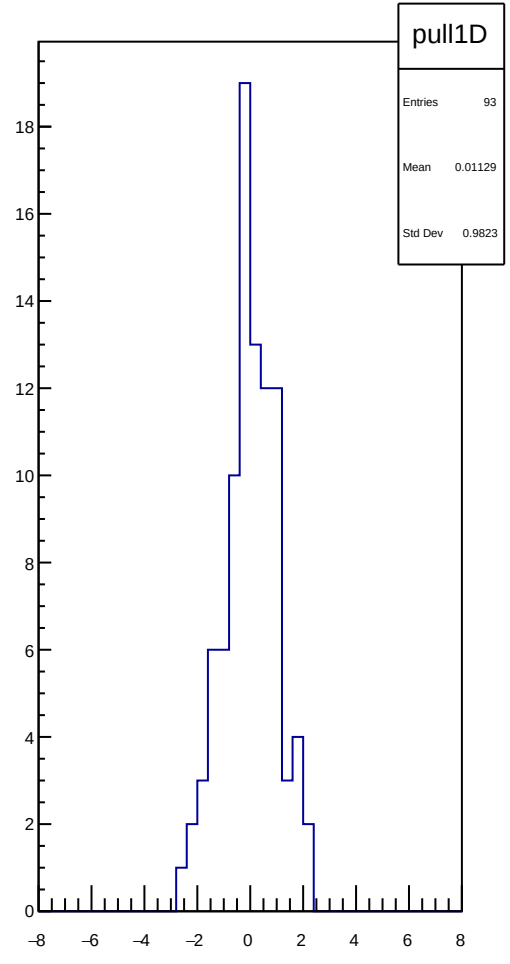

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 665.2 / 92
p0 1806 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740

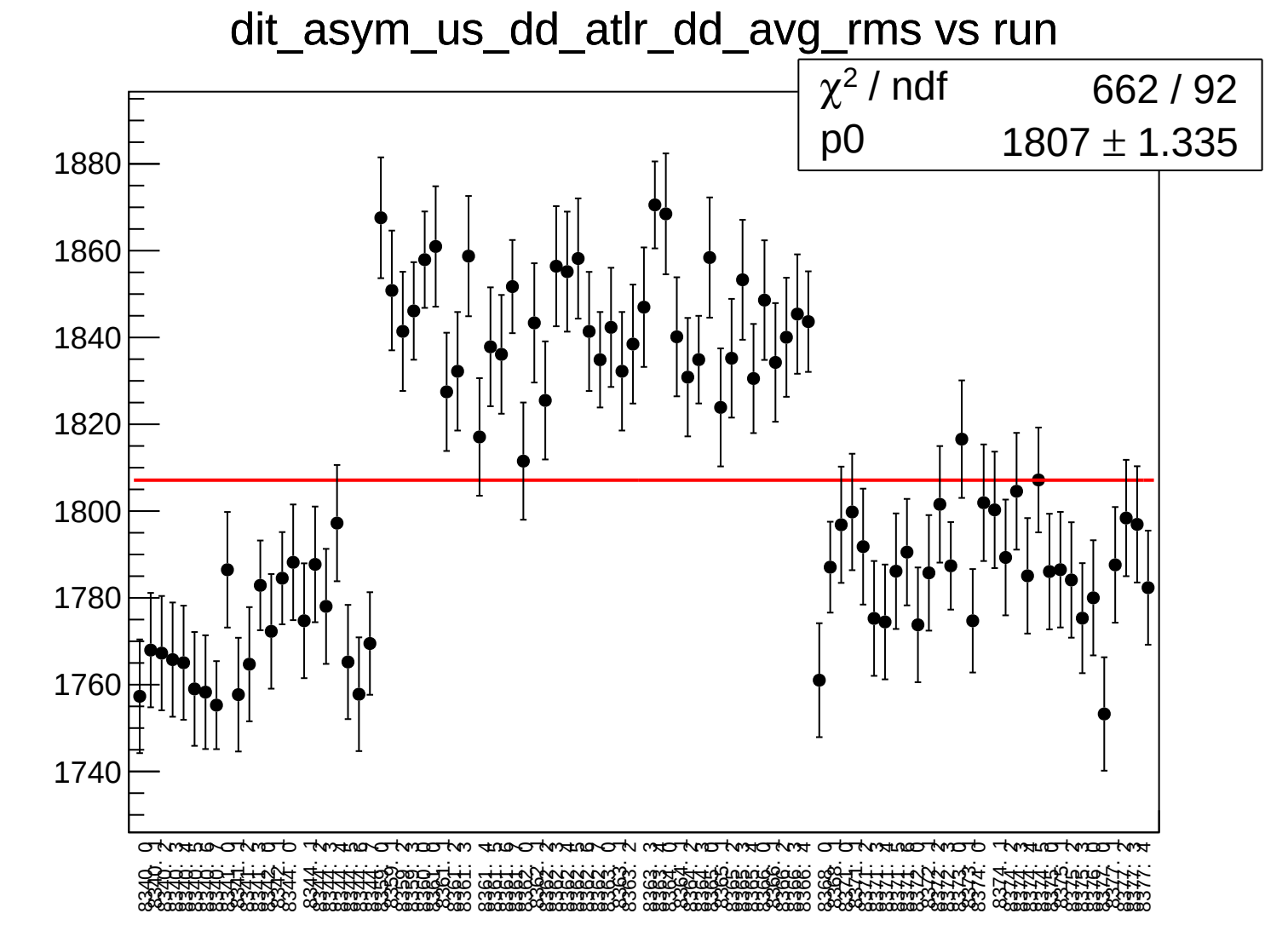

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.7 / 92
p0 −975.4 ± 2708
pull
Entries 93
Mean −228
Std Dev 0

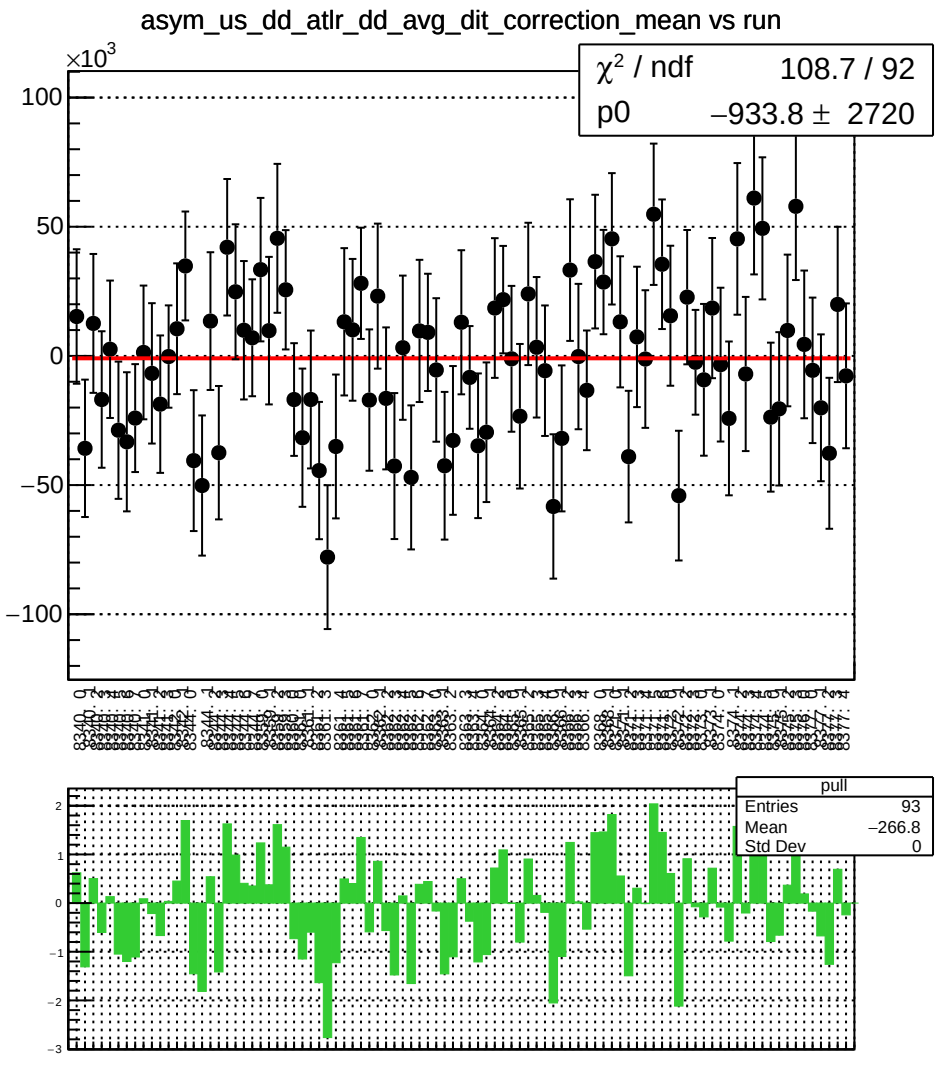

pull1D
Entries 93
Mean −0.01695
Std Dev 1.081

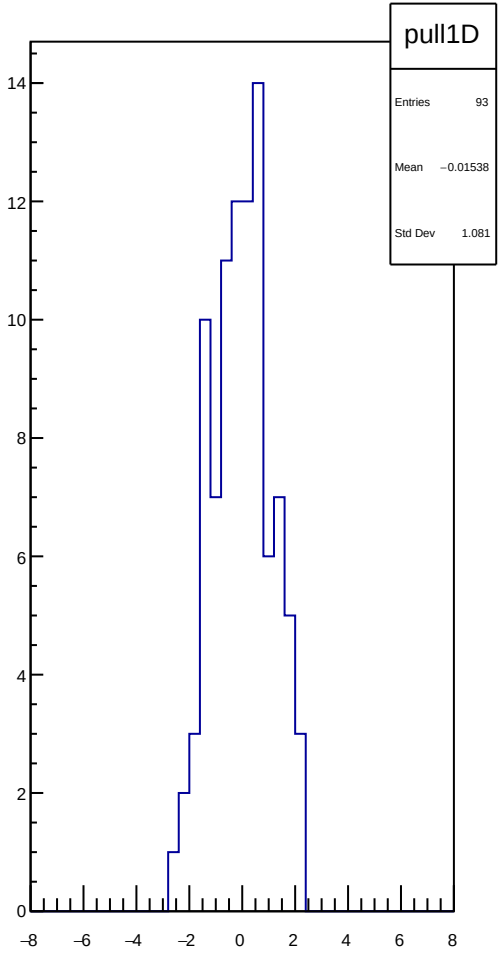

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4092 / 92
p0 2590 ± 1.915
2900
2800
2700
2600
2500
2400
2300

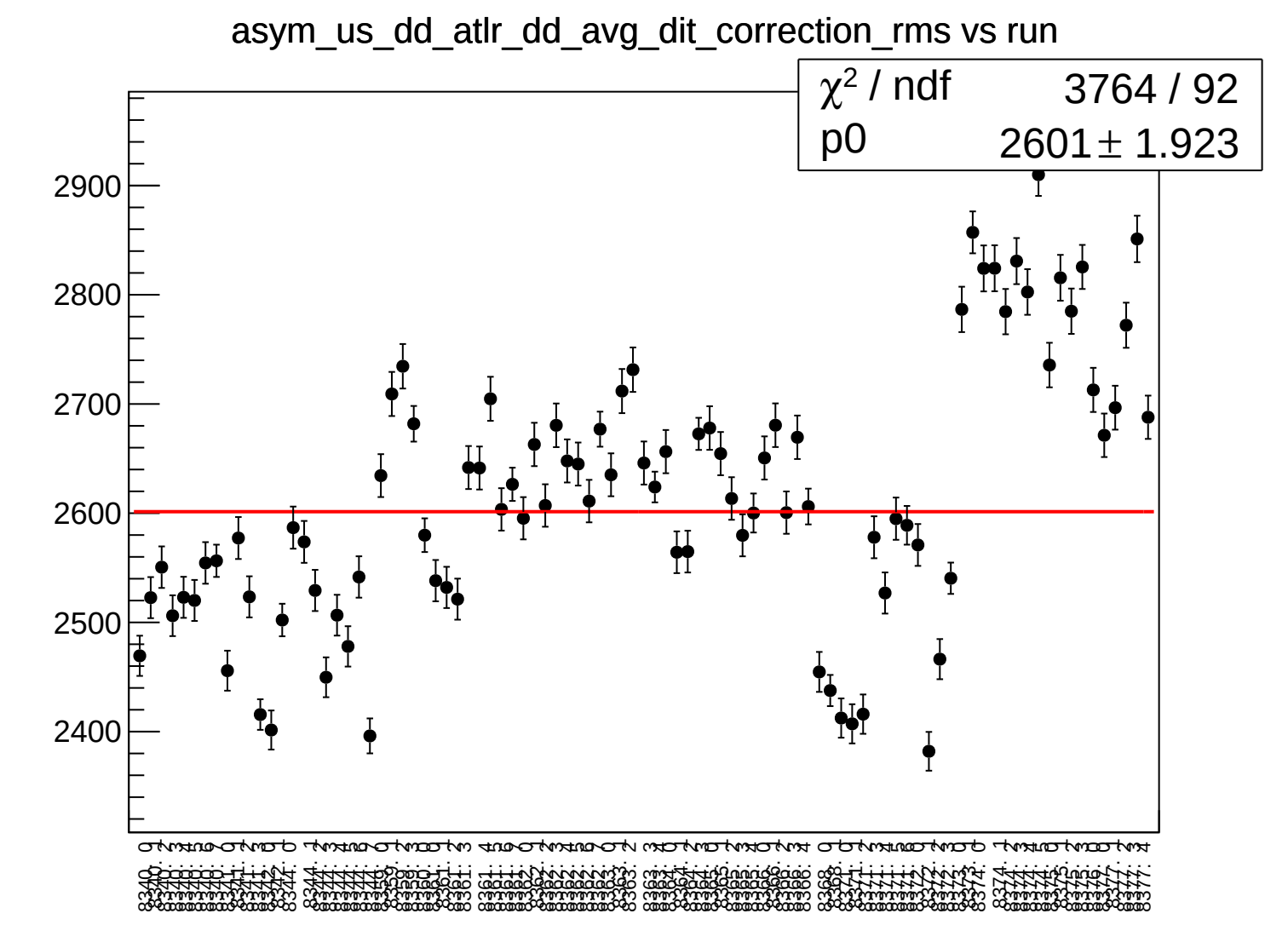

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.75 / 92
p0 −563 ± 1888
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −20.79
Std Dev 0
2
1
0
−1
−2

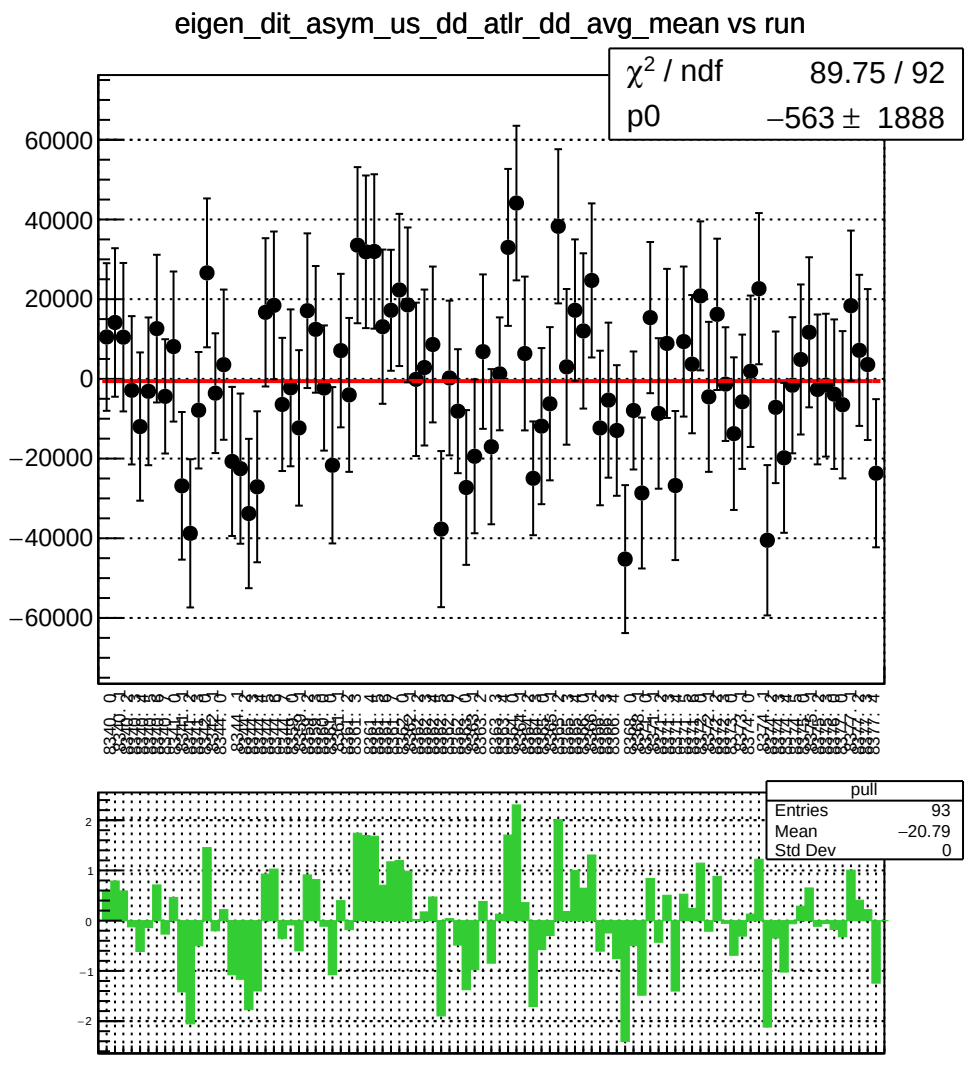

pull1D
Entries 93
Mean 0.01129
Std Dev 0.9823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

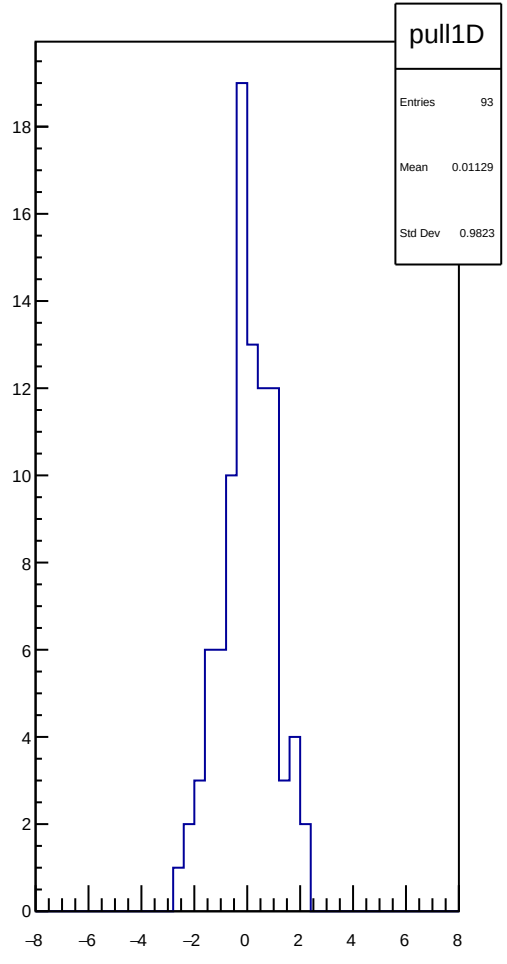

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 662 / 92
p0 1807 ± 1.335
1880
1860
1840
1820
1800
1780
1760
1740

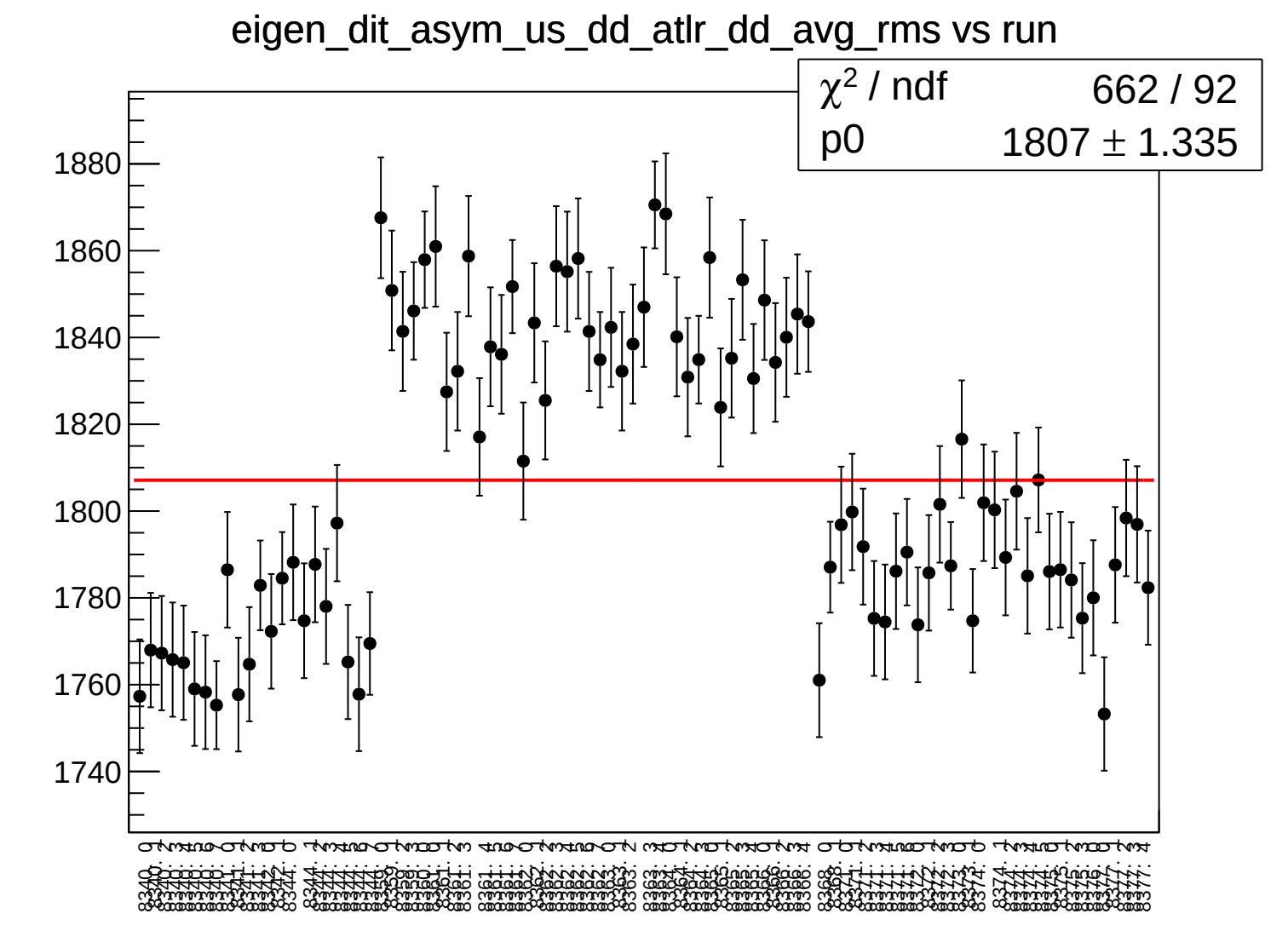

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 108.7 / 92
p0 −933.8 ± 2720
pull
Entries 93
Mean −266.8
Std Dev 0

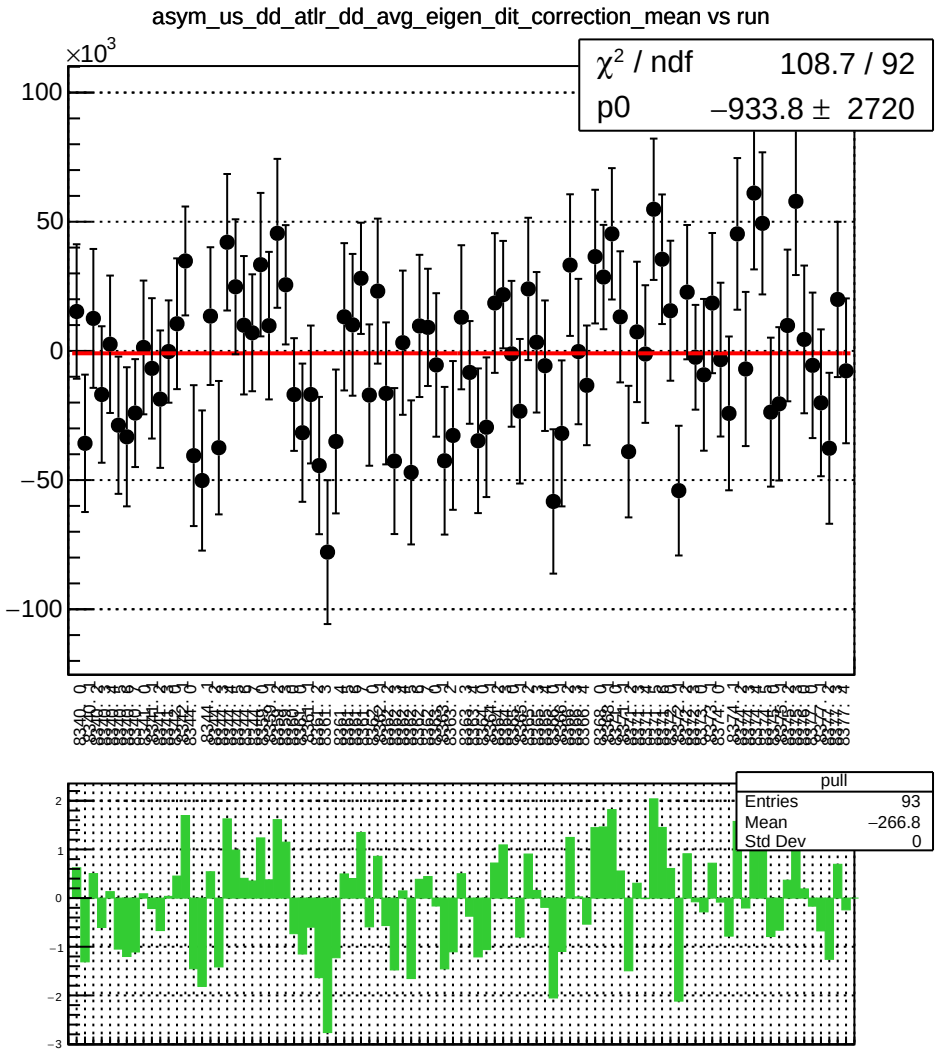

pull1D
Entries 93
Mean −0.01538
Std Dev 1.081

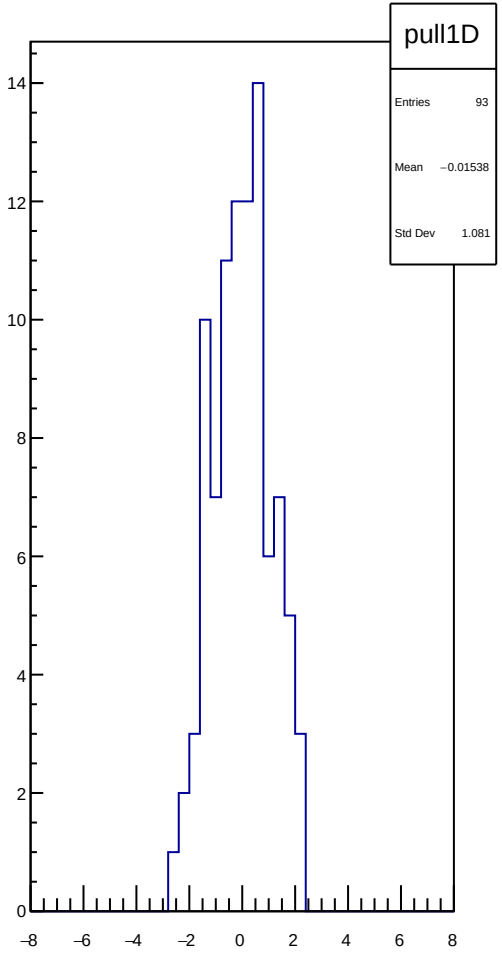

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3764 / 92
p0 2601 ± 1.923
2900
2800
2700
2600
2500
2400

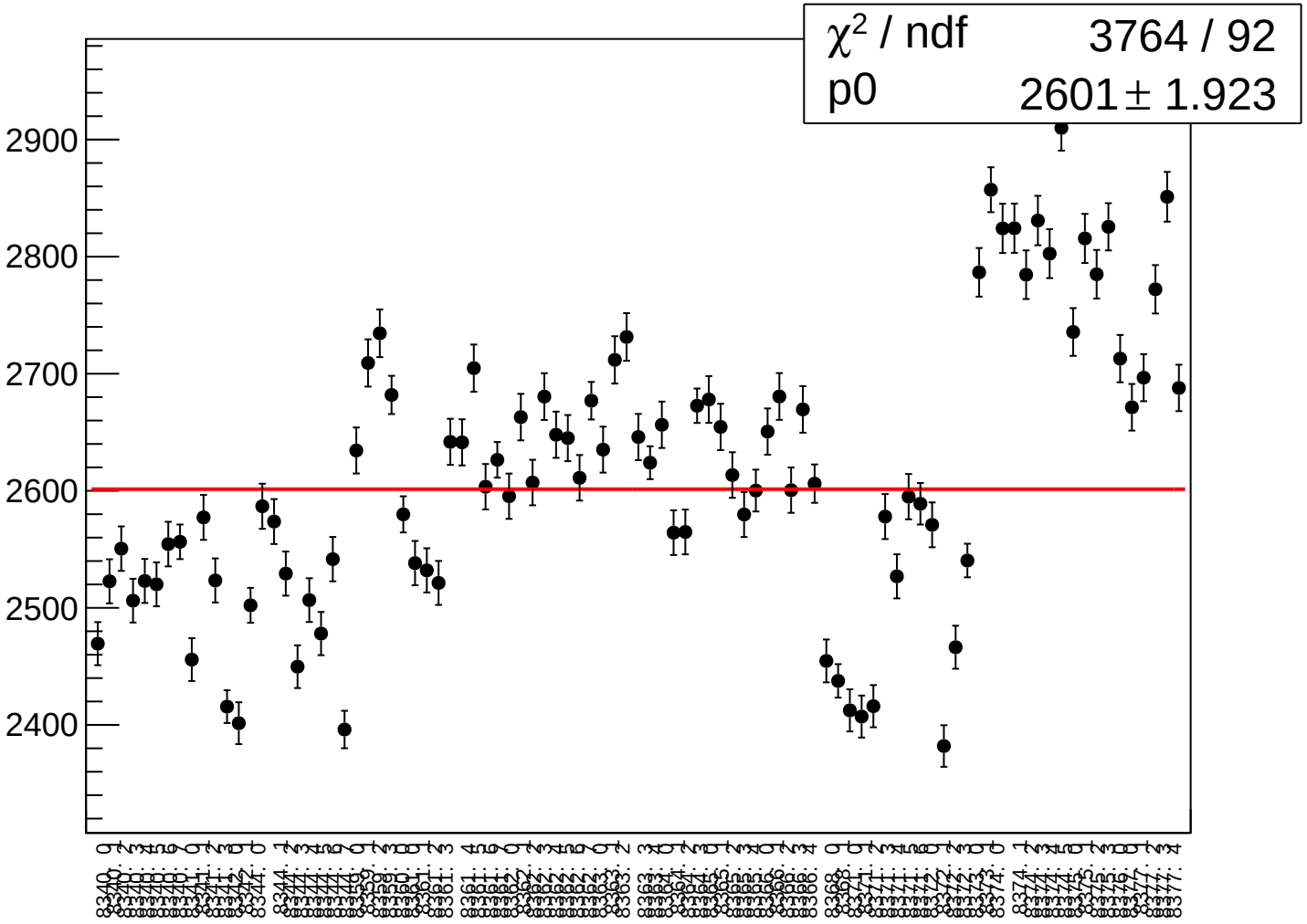

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 89.75 / 92
p0 −563 ± 1888
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −20.79
Std Dev 0
2
1
0
−1
−2

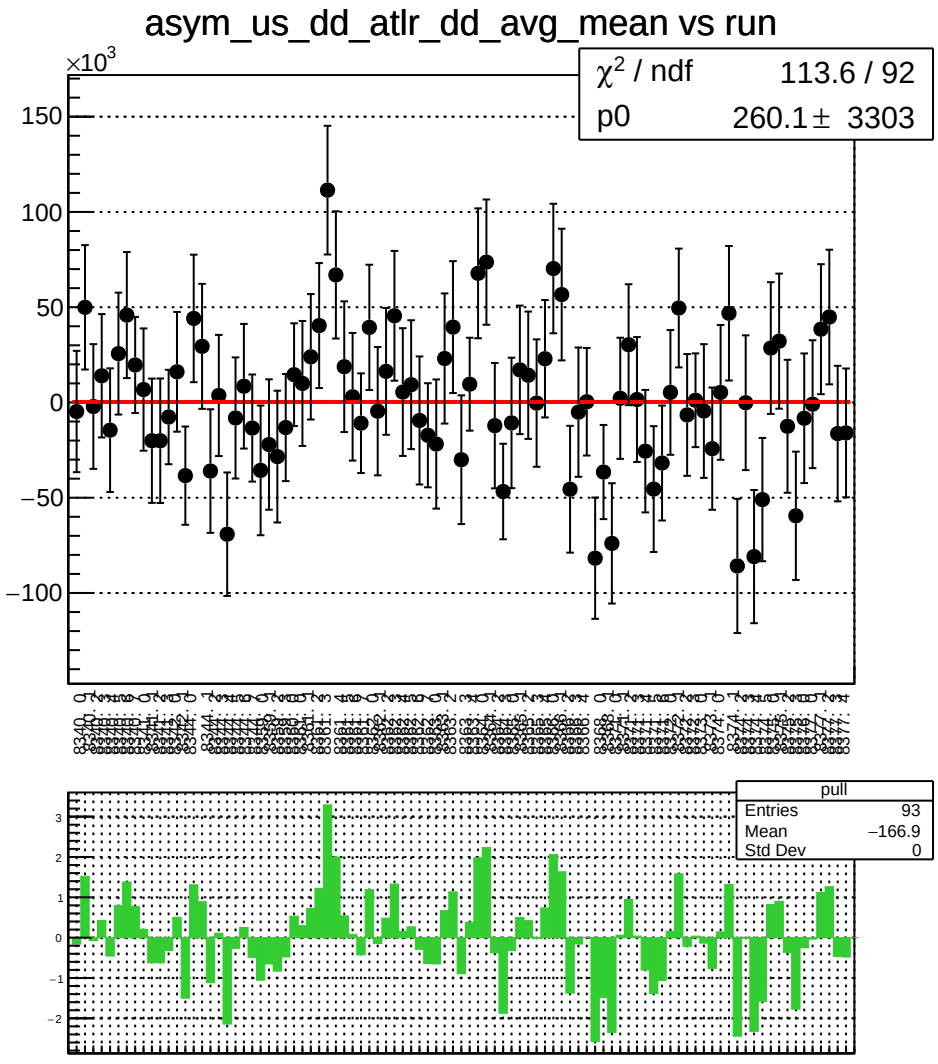

pull1D
Entries 93
Mean 0.01129
Std Dev 0.9823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

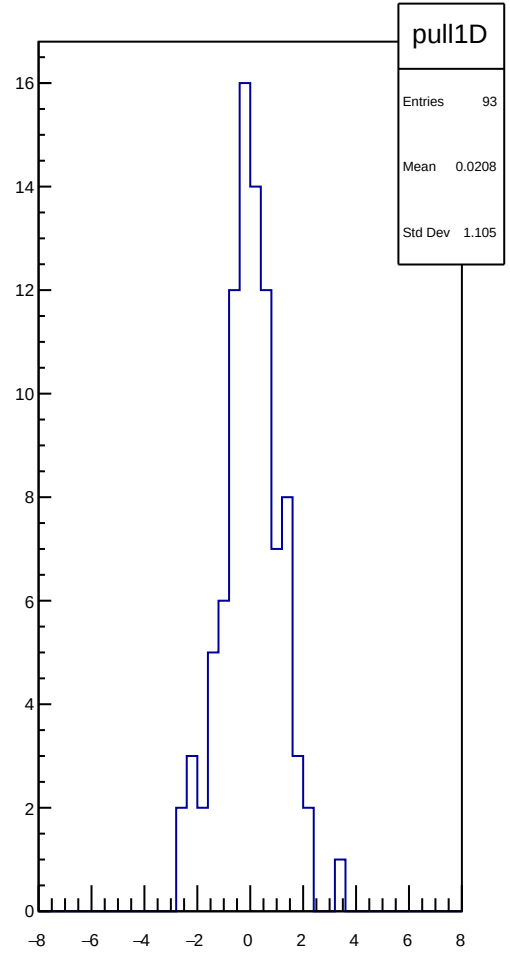

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 662 / 92
p0 1807 ± 1.335
1880
1860
1840
1820
1800
1780
1760
1740

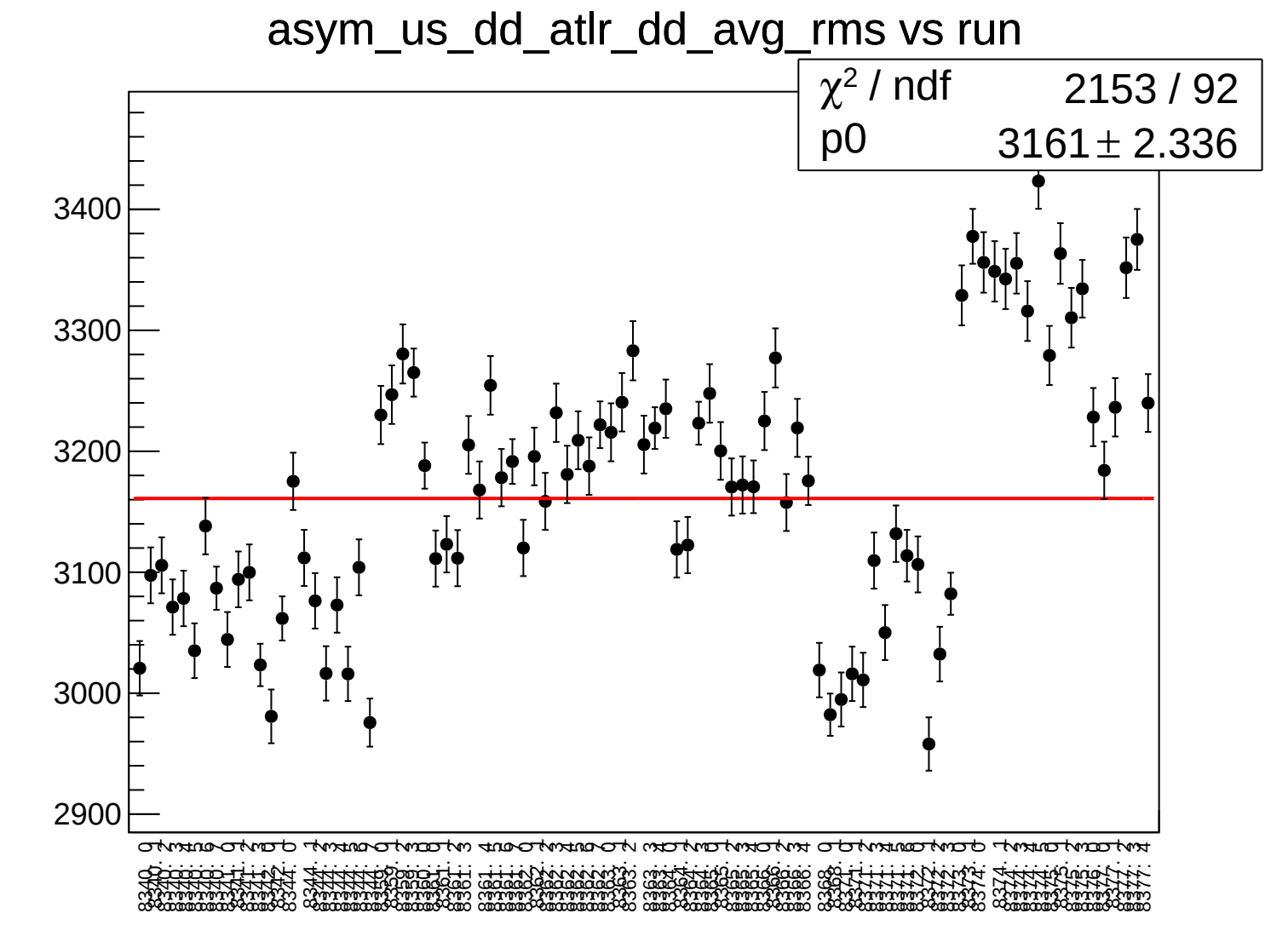

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 108.7 / 92
p0 −933.8 ± 2720
pull
Entries 93
Mean −266.8
Std Dev 0

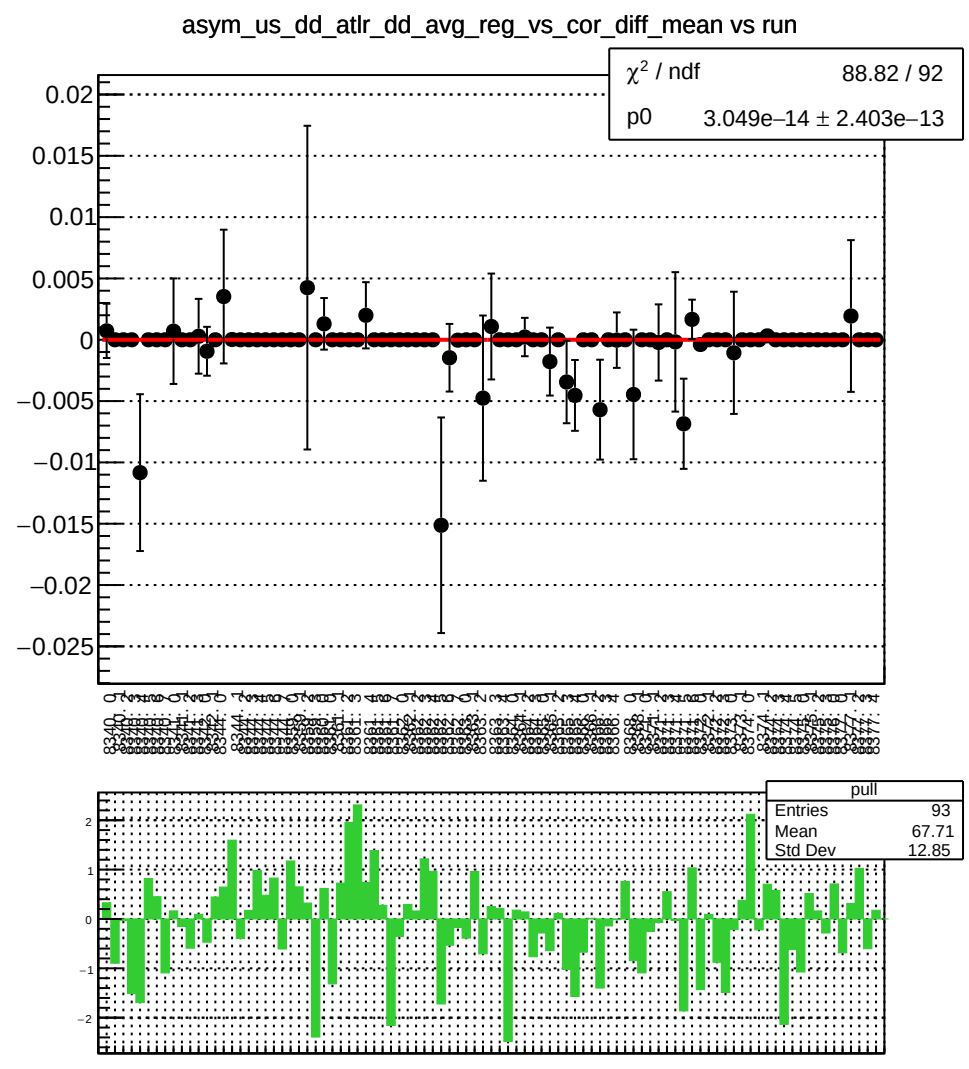

pull1D
Entries 93
Mean −0.01538
Std Dev 1.081

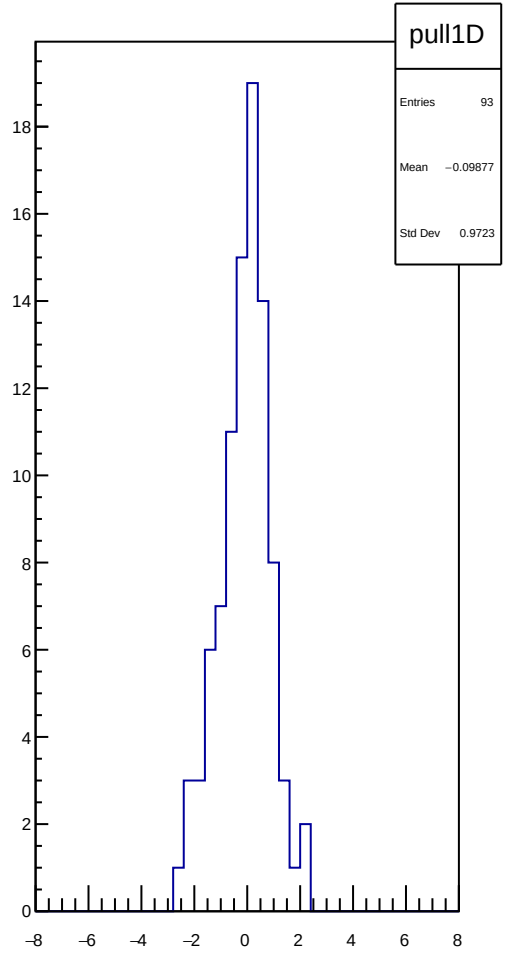

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3764 / 92
p0 2601 ± 1.923
2900
2800
2700
2600
2500
2400

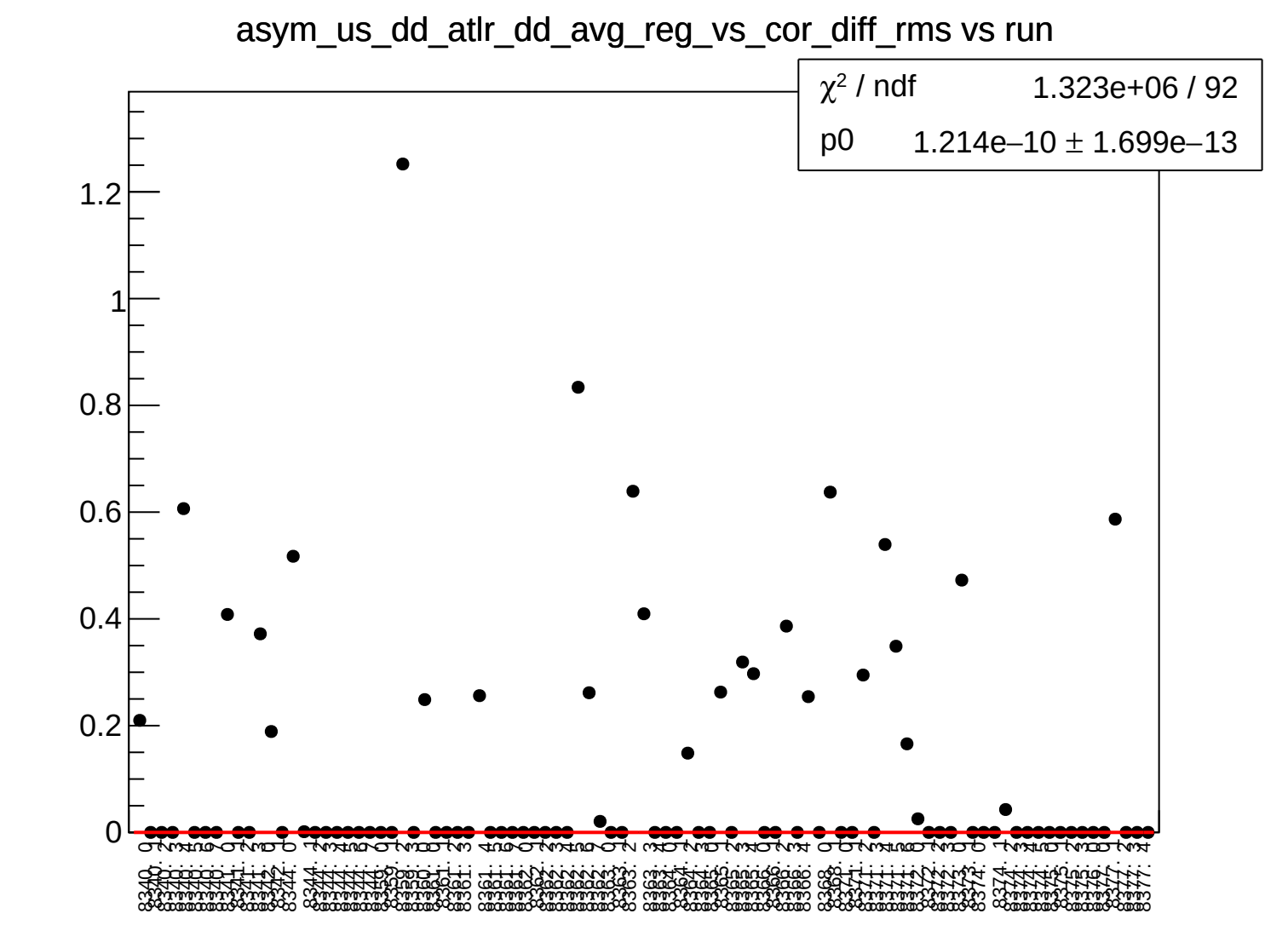

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 113.6 / 92
p0 260.1 ± 3303
150
100
50
0
−50
−100
pull
Entries 93
Mean −166.9
Std Dev 0
3
2
1
0
−1
−2

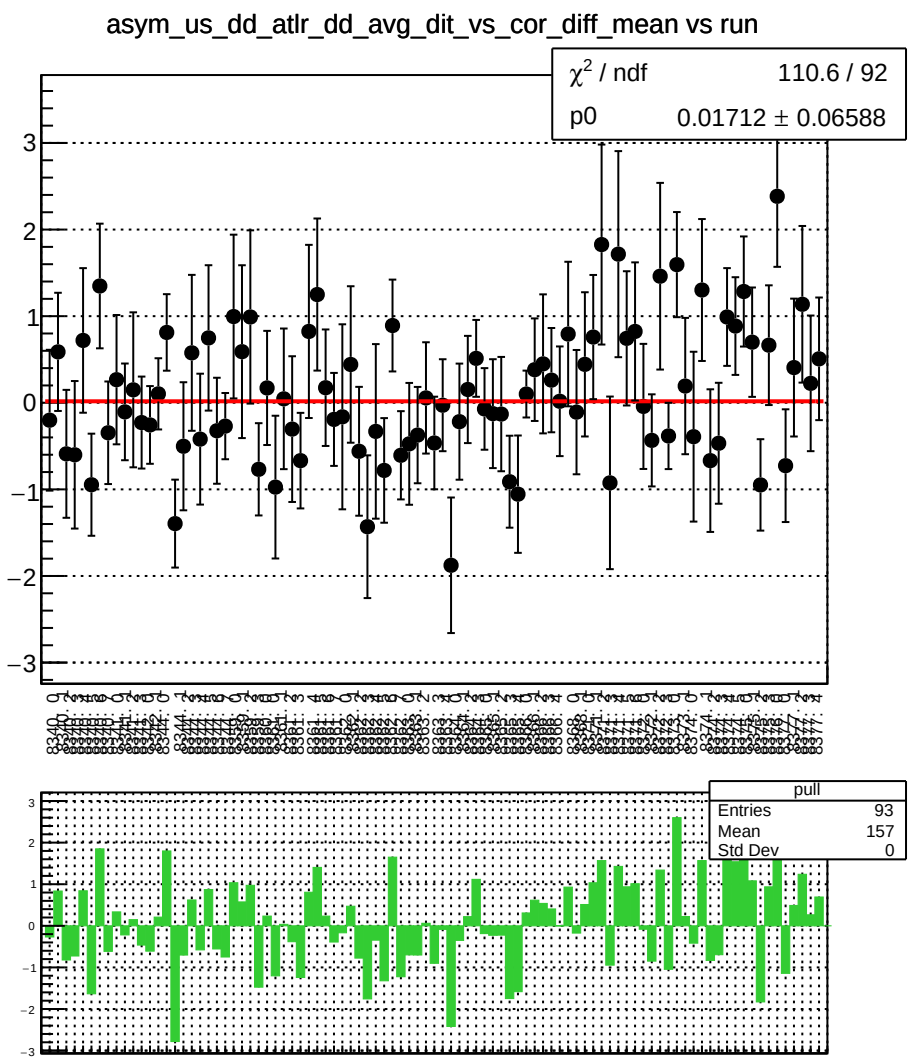

pull1D
Entries 93
Mean 0.0208
Std Dev 1.105
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

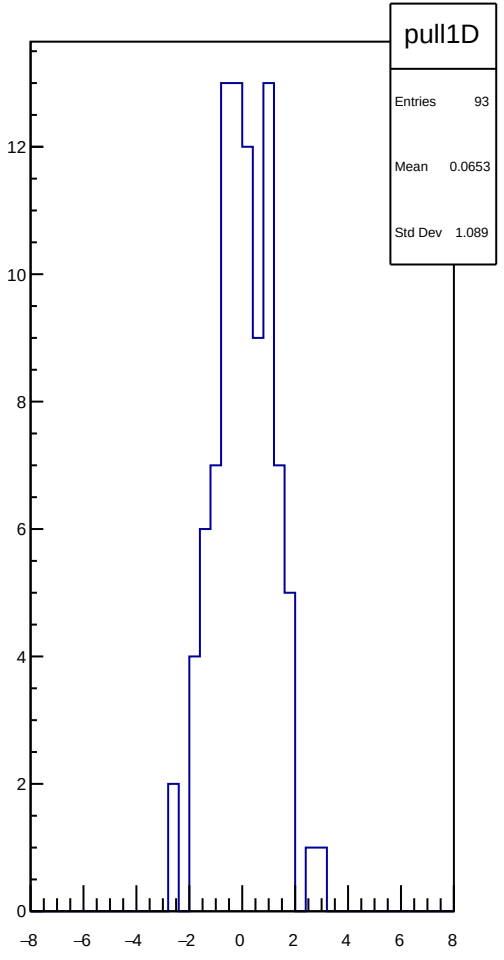

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2153 / 92
p0 3161 ± 2.336
3400
3300
3200
3100
3000
2900

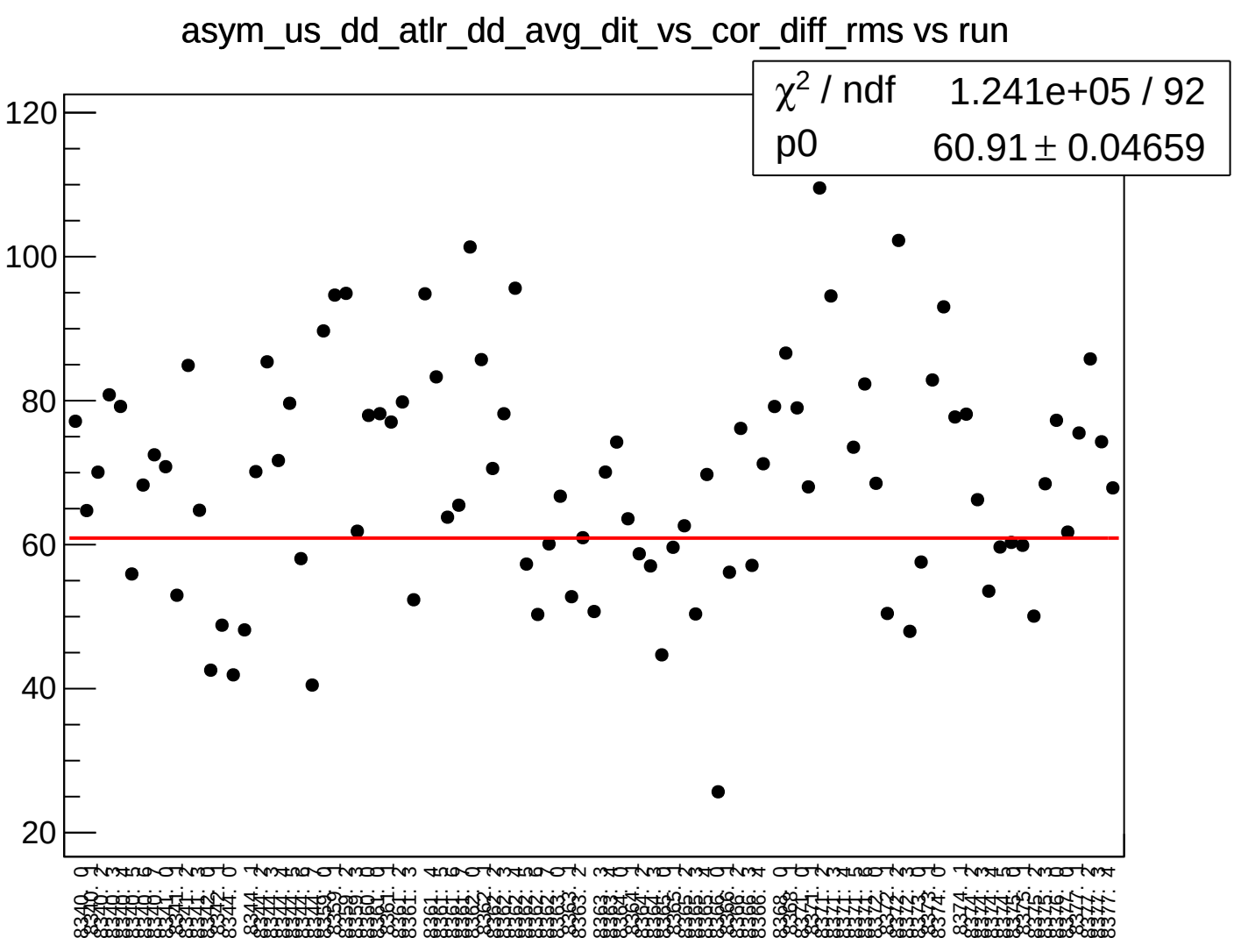

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.82 / 92
p0 3.049e−14 ± 2.403e−13
pull
Entries 93
Mean 67.71
Std Dev 12.85

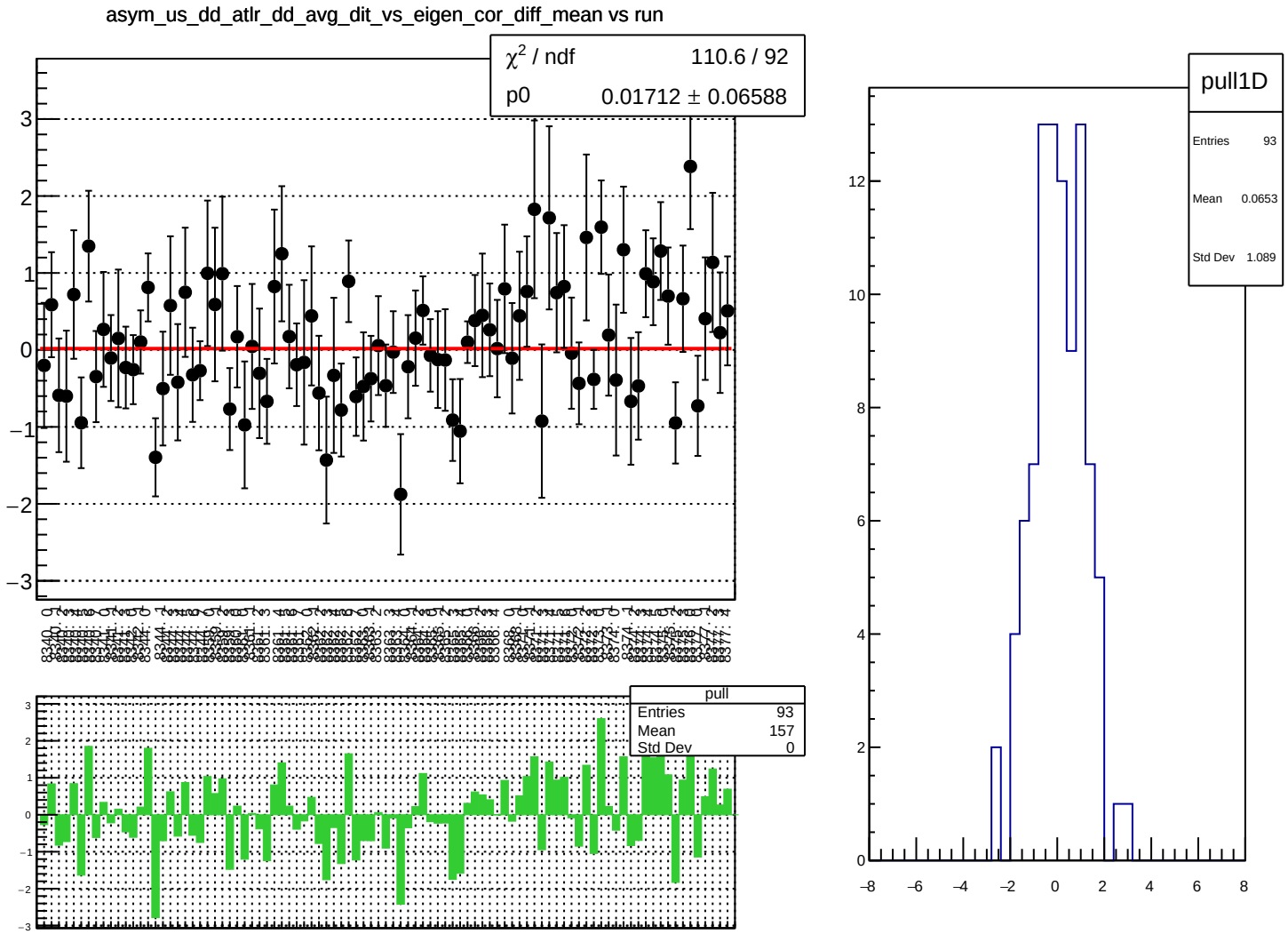

pull1D
Entries 93
Mean −0.09877
Std Dev 0.9723

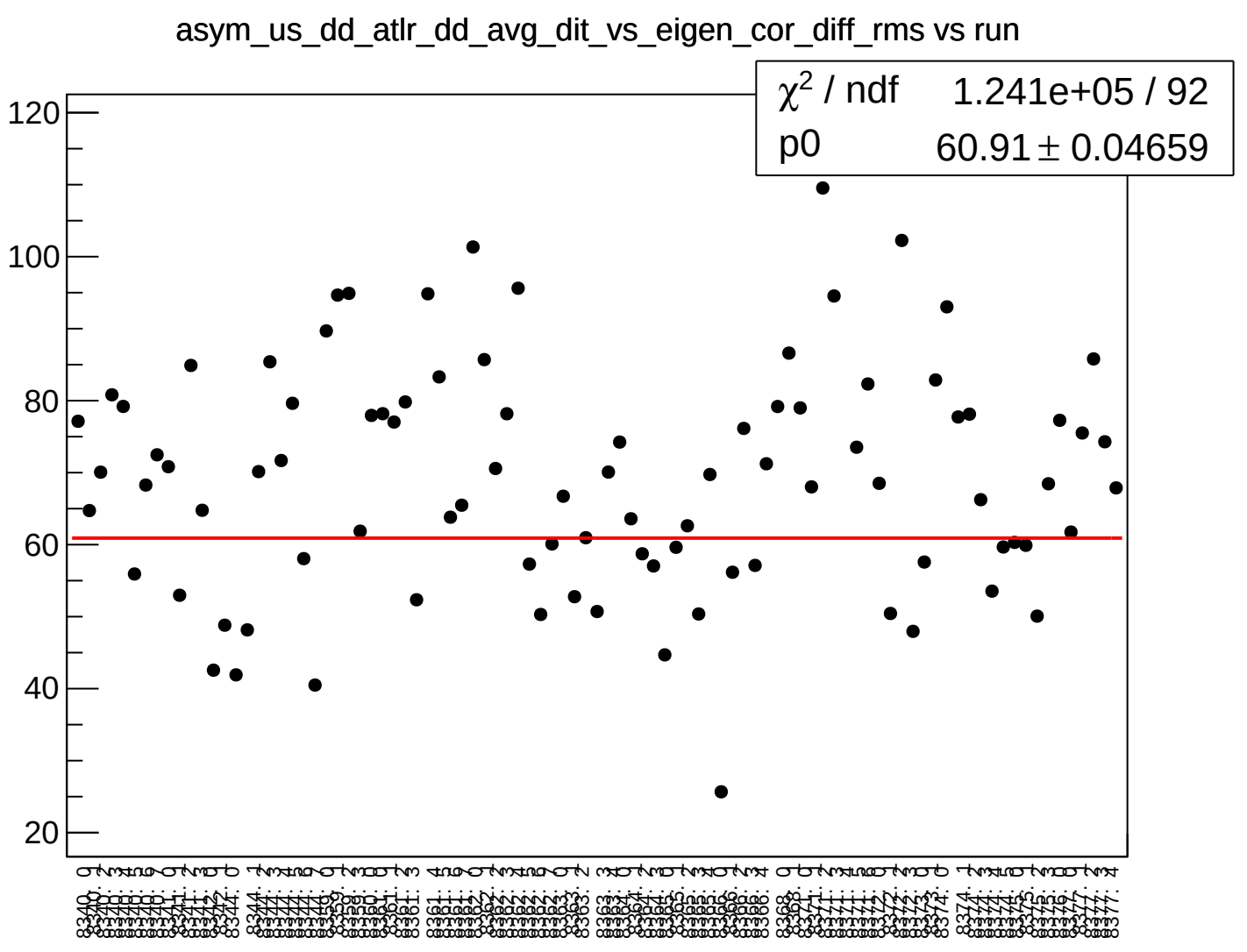

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.323e+06 / 92
p0 1.214e−10 ± 1.699e−13
1.2
1
0.8
0.6
0.4
0.2
0

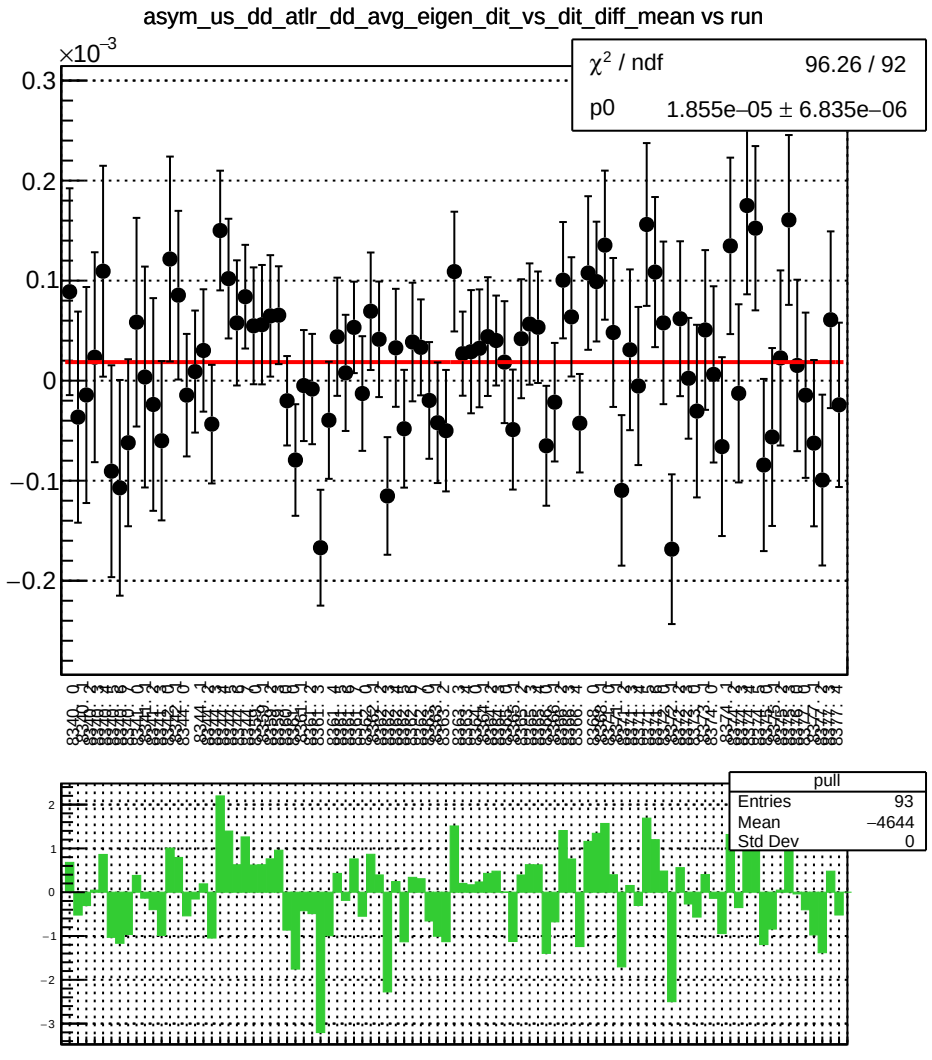

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 0.01712 ± 0.06588
pull
Entries 93
Mean 157
Std Dev 0

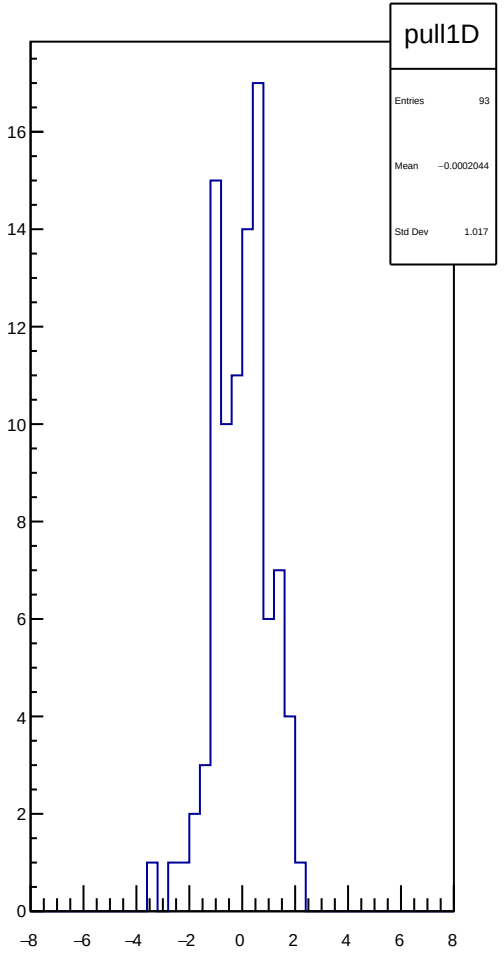

pull1D
Entries 93
Mean 0.0653
Std Dev 1.089

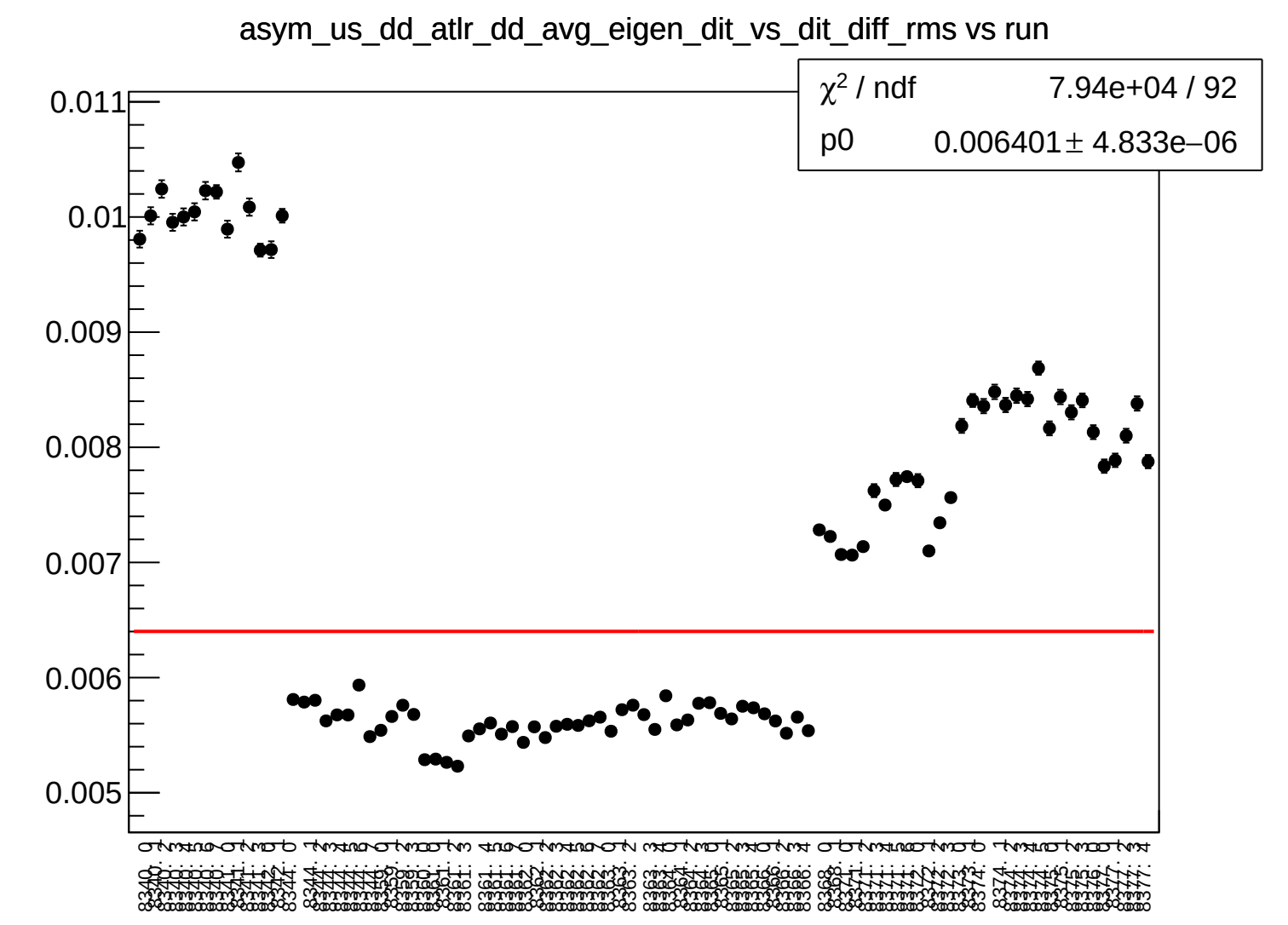

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.241e+05 / 92
p0 60.91 ± 0.04659
120
100
80
60
40
20

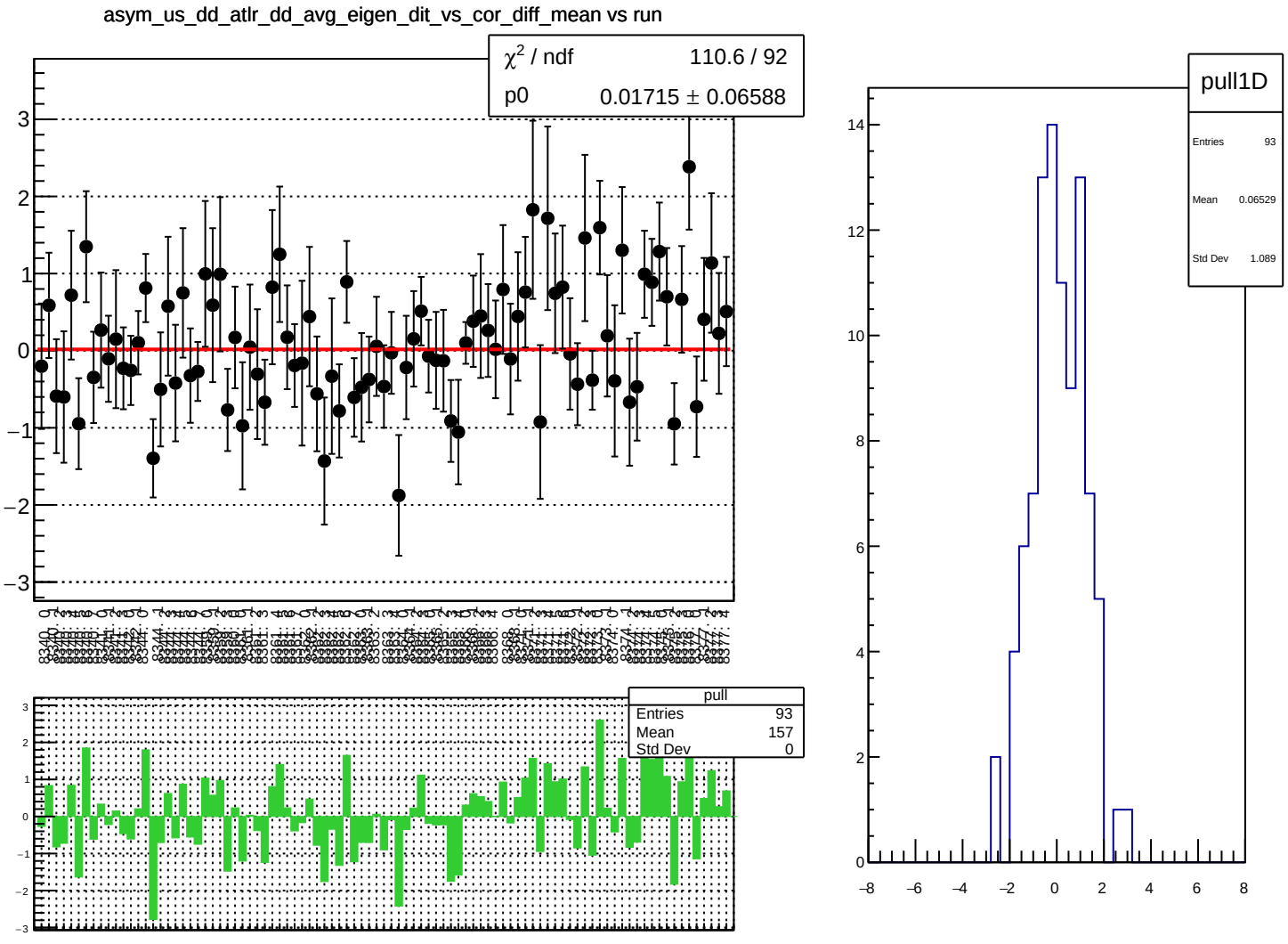

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 0.01712 ± 0.06588
pull
Entries 93
Mean 157
Std Dev 0
pull1D
Entries 93
Mean 0.0653
Std Dev 1.089

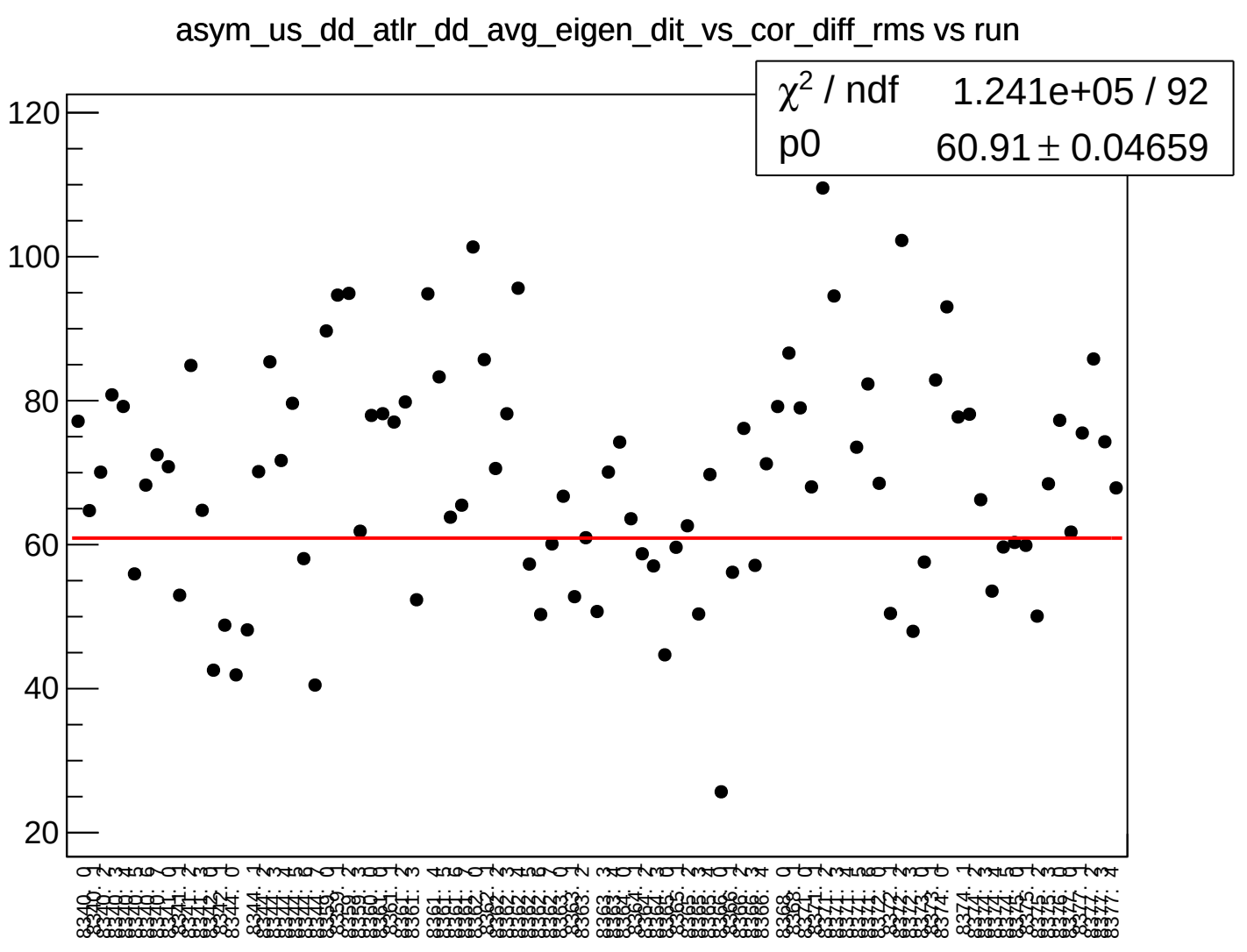

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.241e+05 / 92
p0 60.91 ± 0.04659
120
100
80
60
40
20

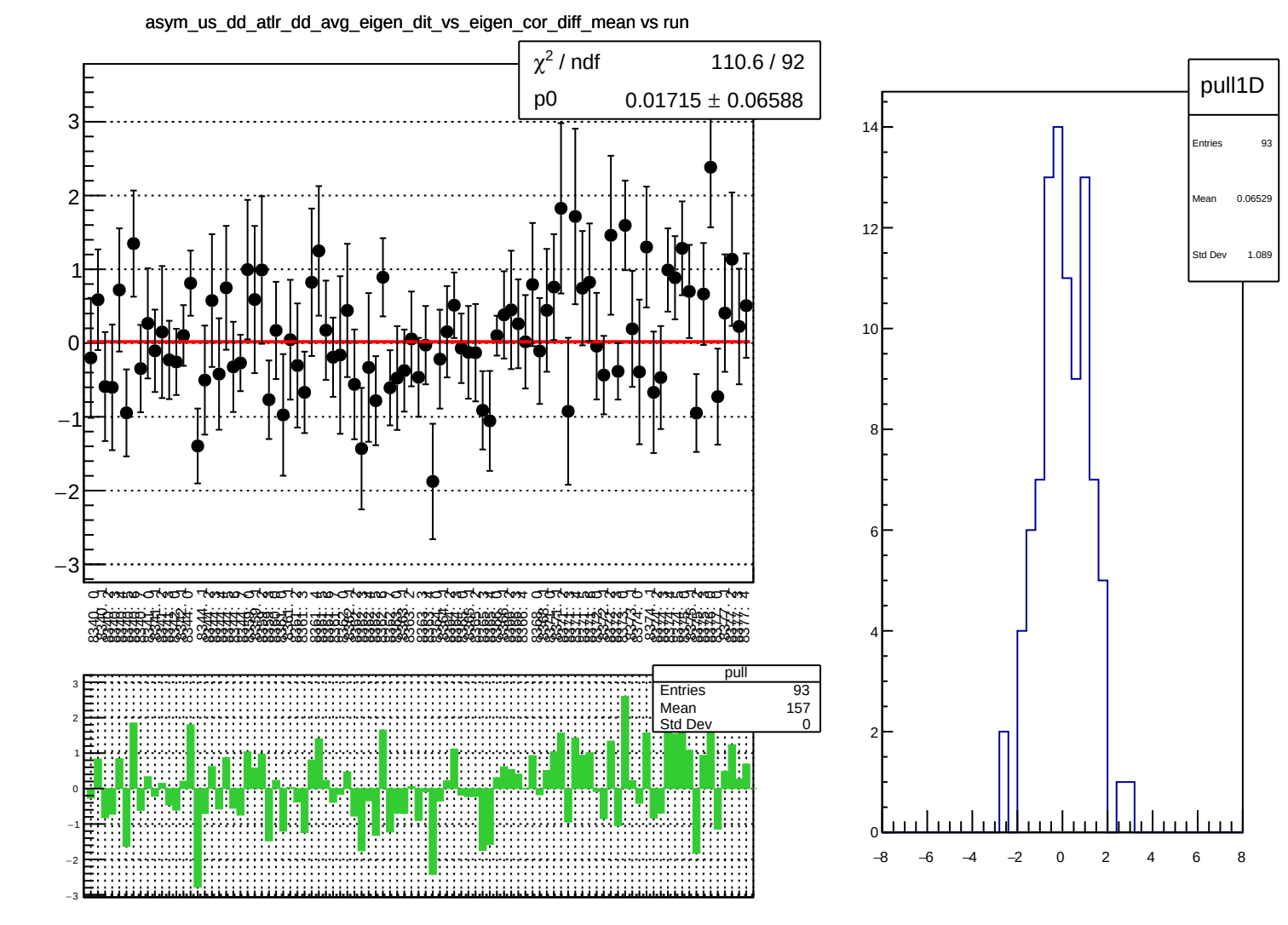

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.26 / 92
p0 1.855e−05 ± 6.835e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 93
Mean −4644
Std Dev 0
2
1
0
−1
−2
−3

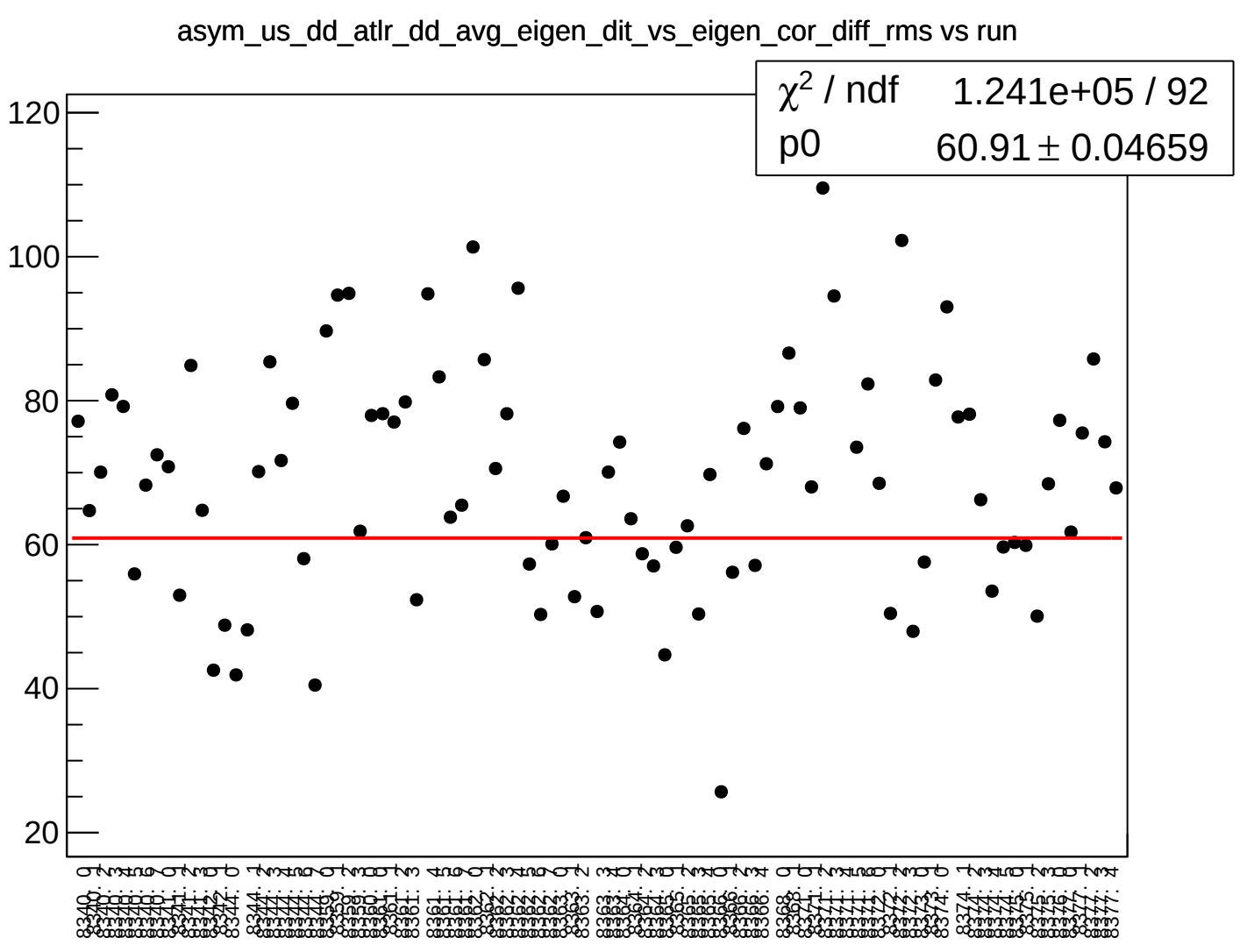

pull1D
Entries 93
Mean −0.0002044
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

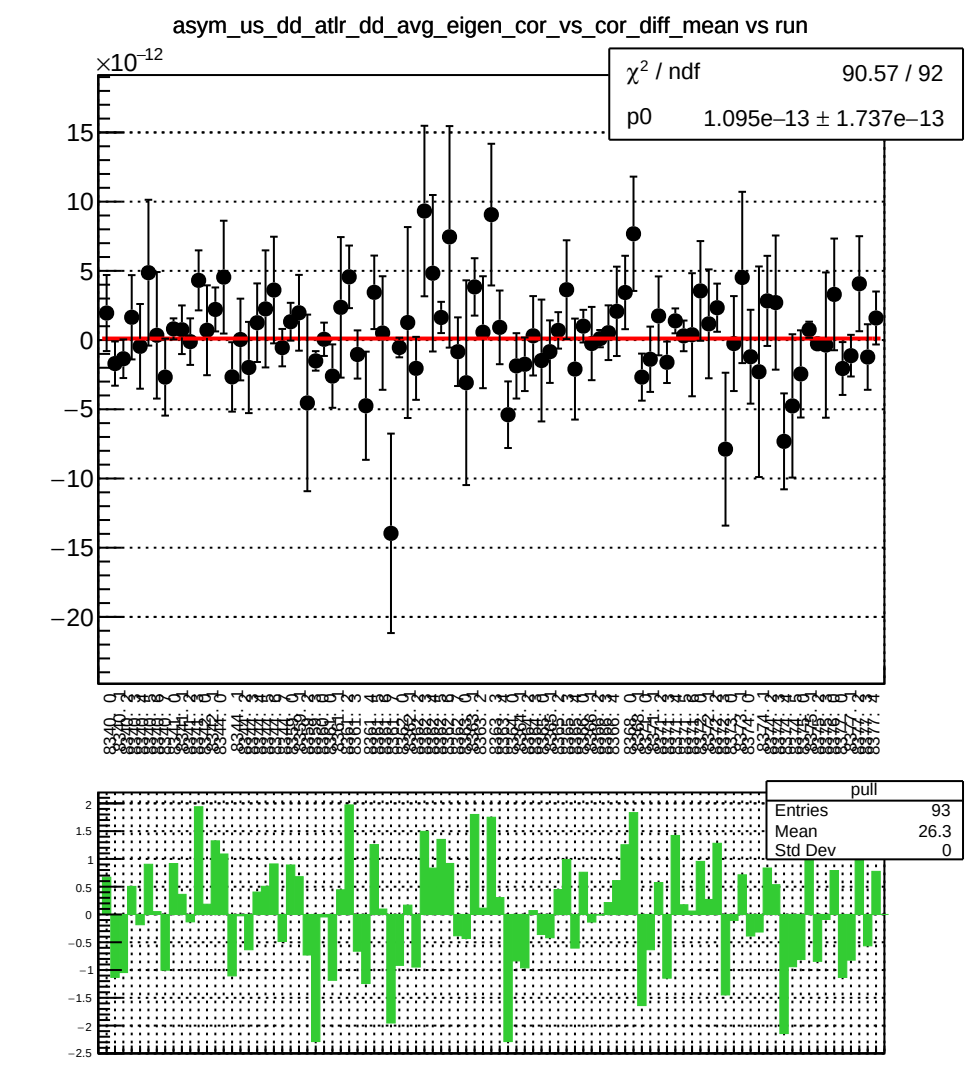

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.94e+04 / 92
p0 0.006401 ± 4.833e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

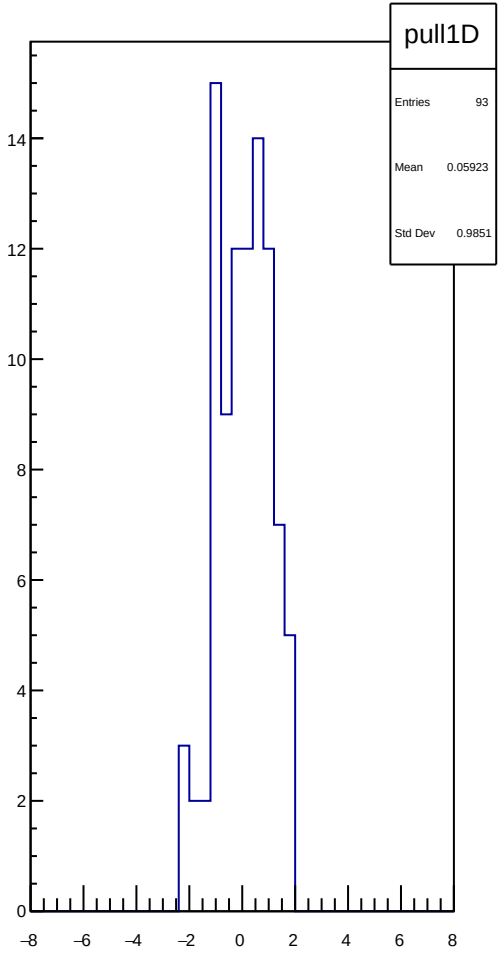

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 0.01715 ± 0.06588
pull
Entries 93
Mean 157
Std Dev 0
pull1D
Entries 93
Mean 0.06529
Std Dev 1.089

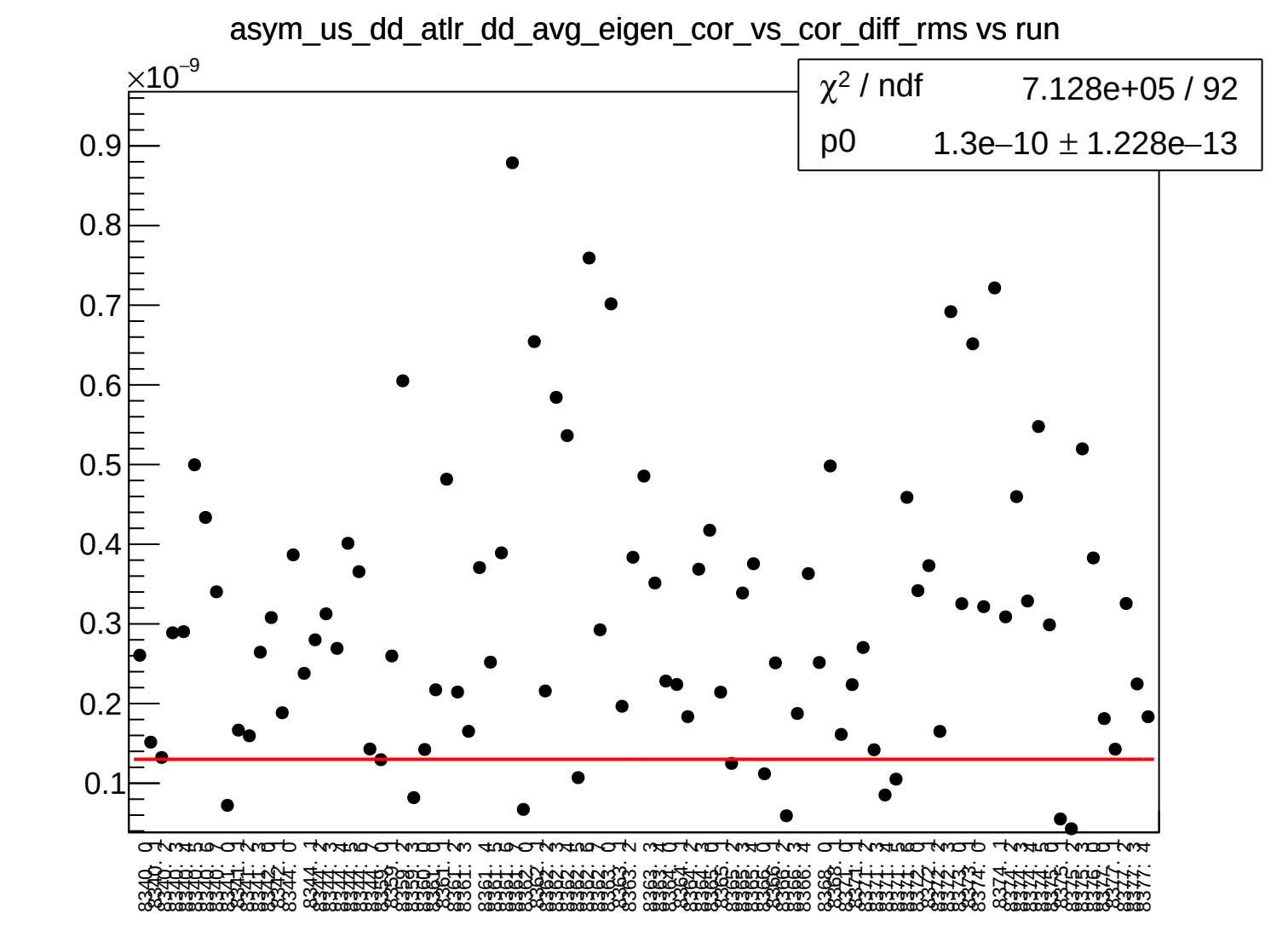

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.241e+05 / 92
p0 60.91 ± 0.04659
120
100
80
60
40
20

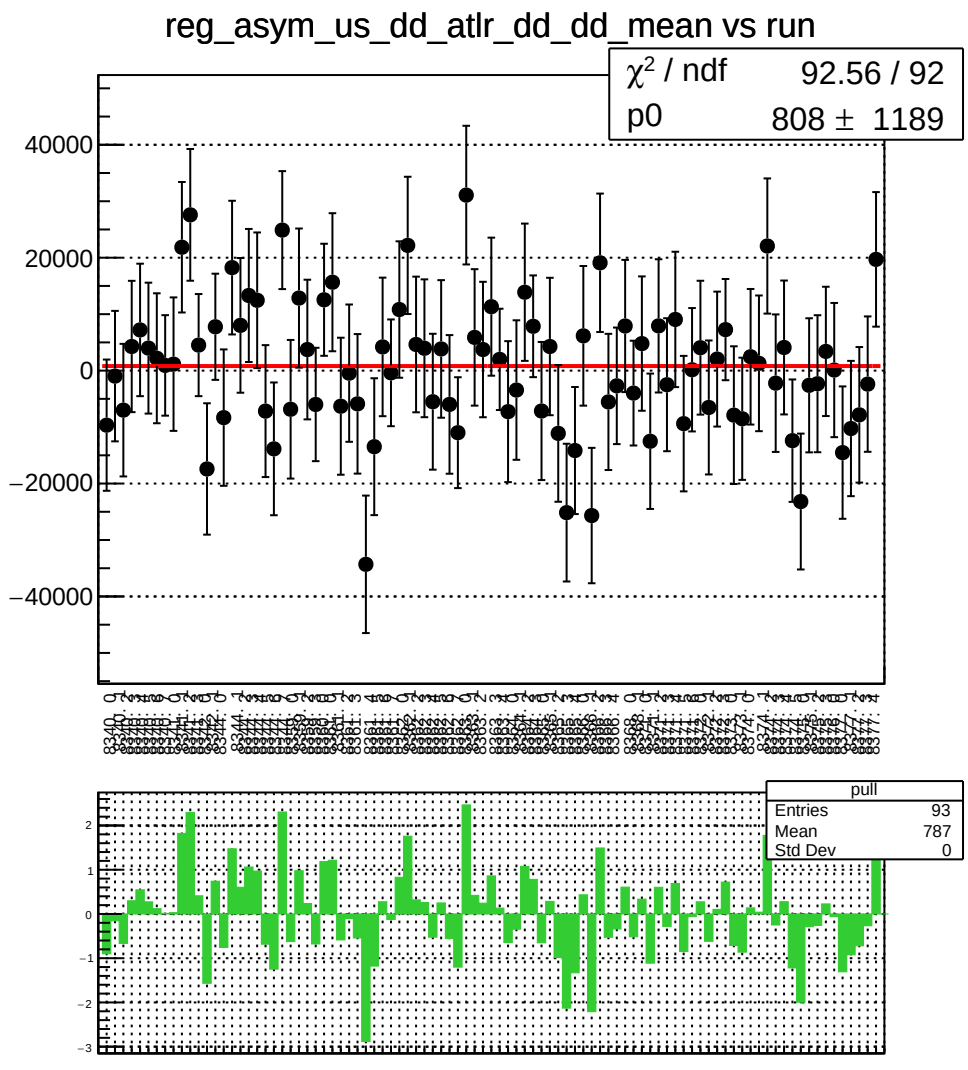

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 110.6 / 92
p0 0.01715 ± 0.06588
pull
Entries 93
Mean 157
Std Dev 0
pull1D
Entries 93
Mean 0.06529
Std Dev 1.089

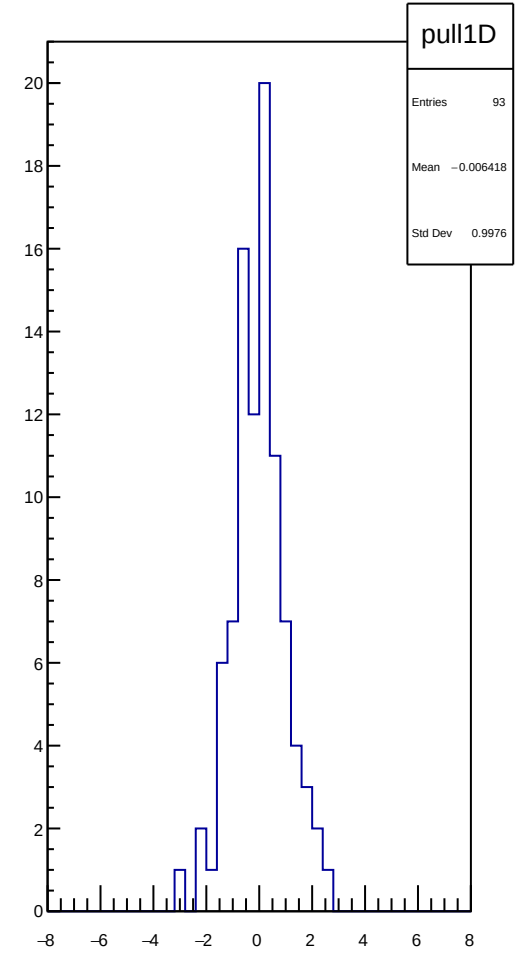

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.241e+05 / 92
p0 60.91 ± 0.04659
120
100
80
60
40
20

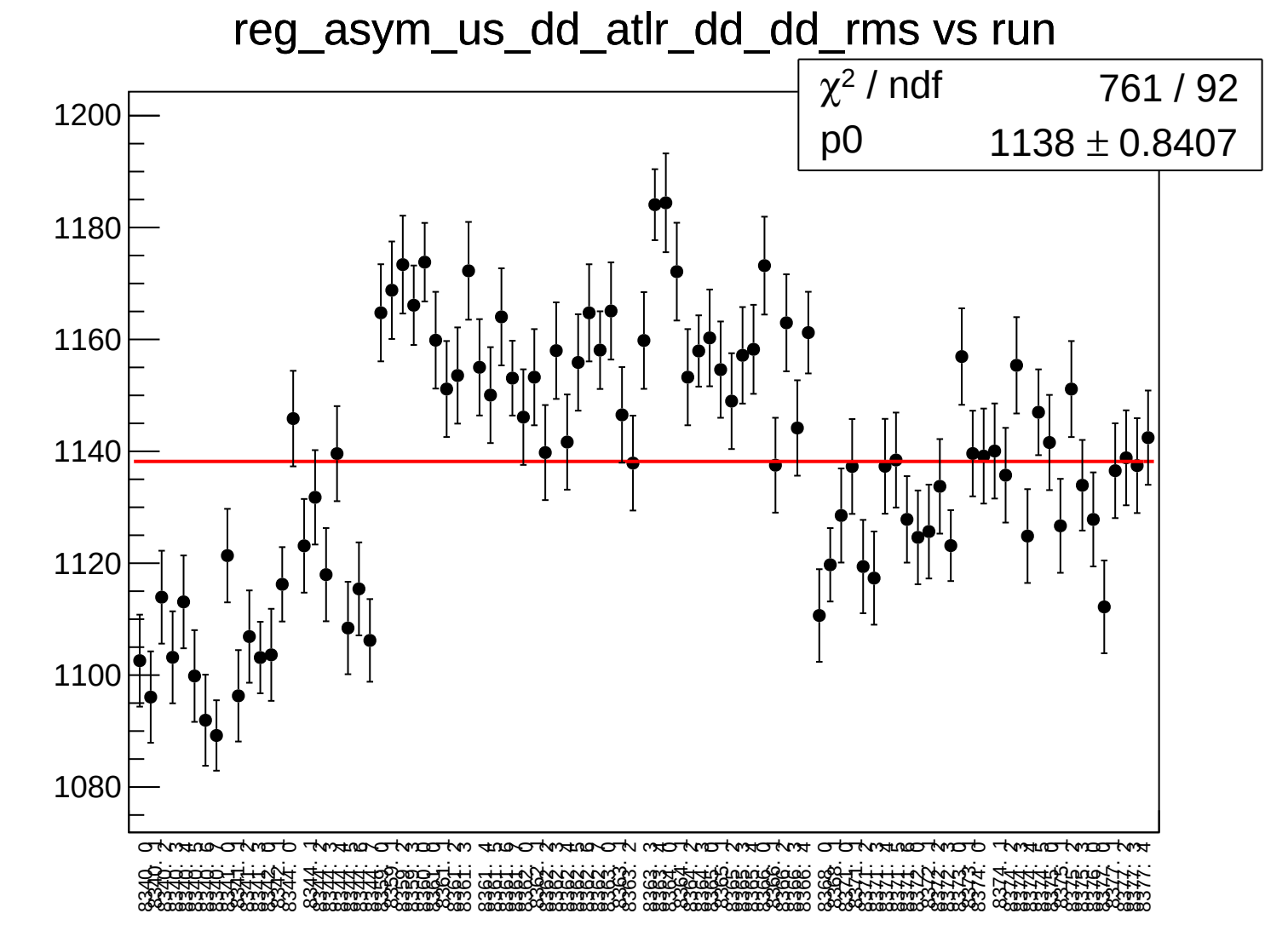

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.57 / 92
p0 1.095e−13 ± 1.737e−13
pull
Entries 93
Mean 26.3
Std Dev 0

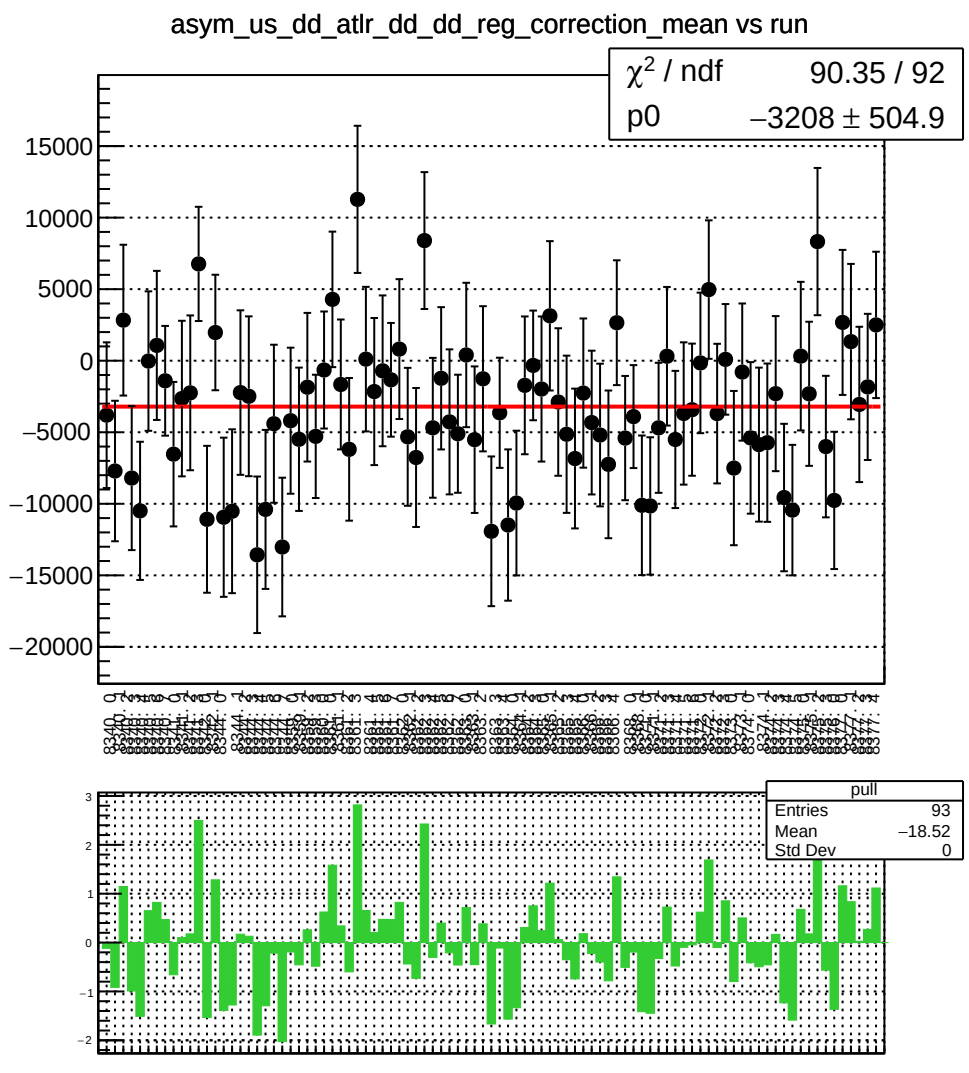

pull1D
Entries 93
Mean 0.05923
Std Dev 0.9851

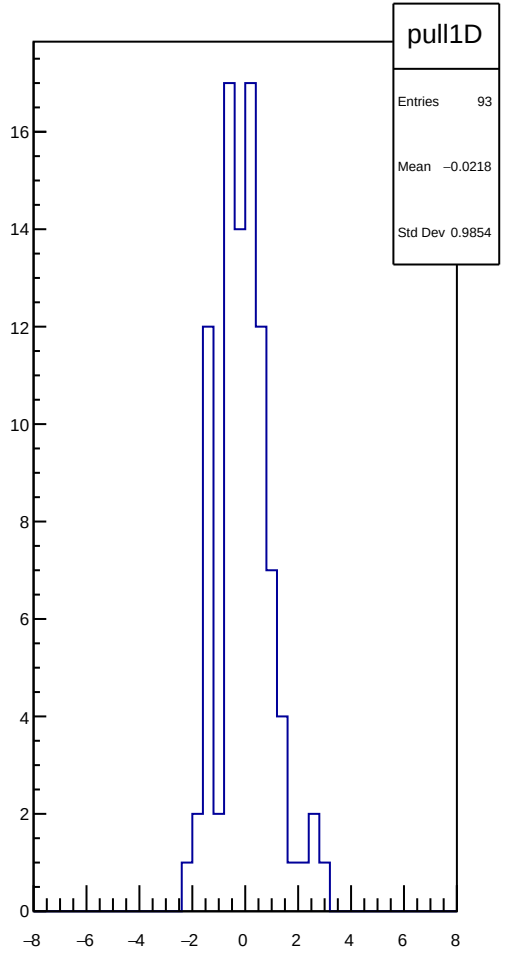

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.128e+05 / 92
p0 1.3e−10 ± 1.228e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

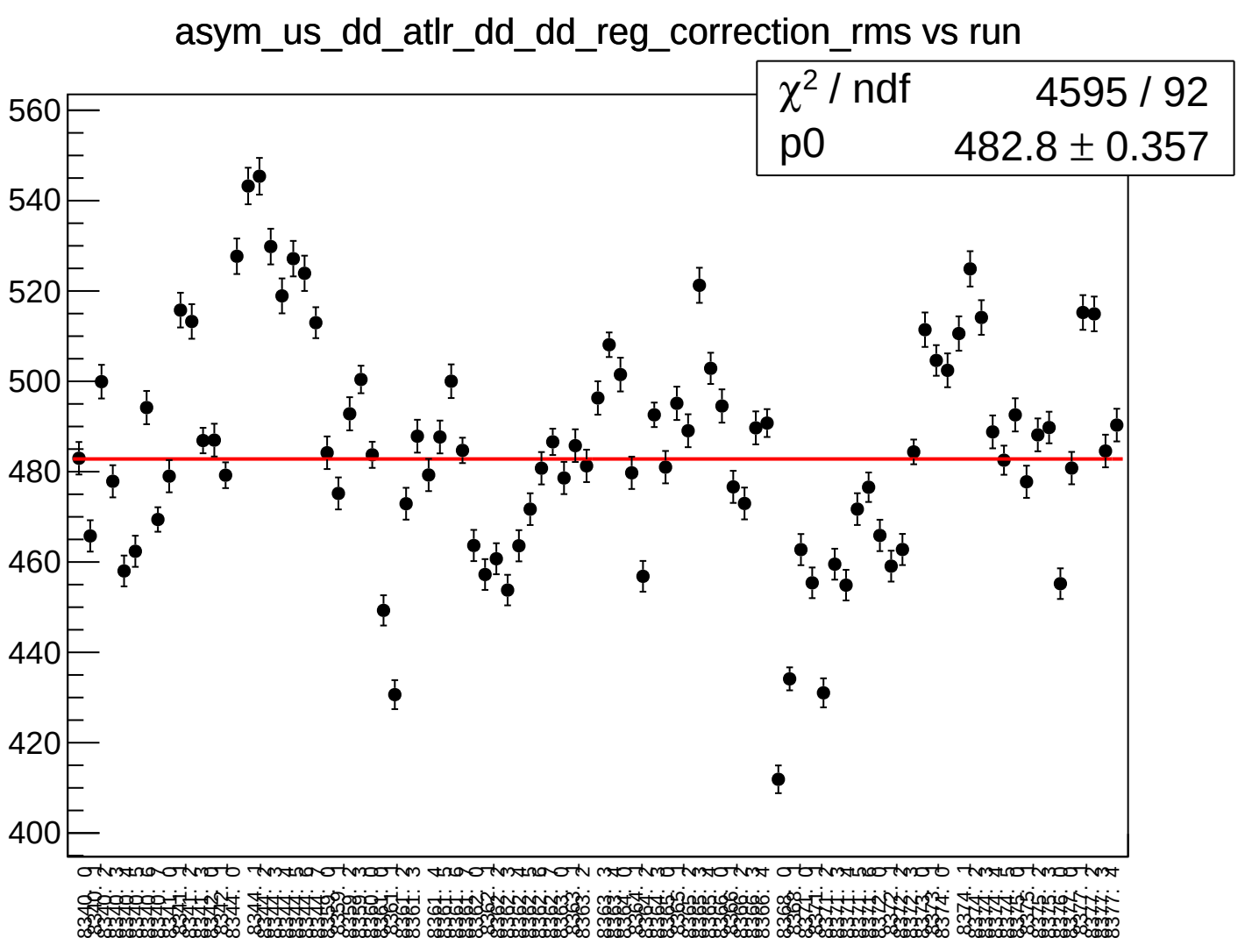

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.56 / 92
p0 808 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 787
Std Dev 0
2
1
0
−1
−2
−3

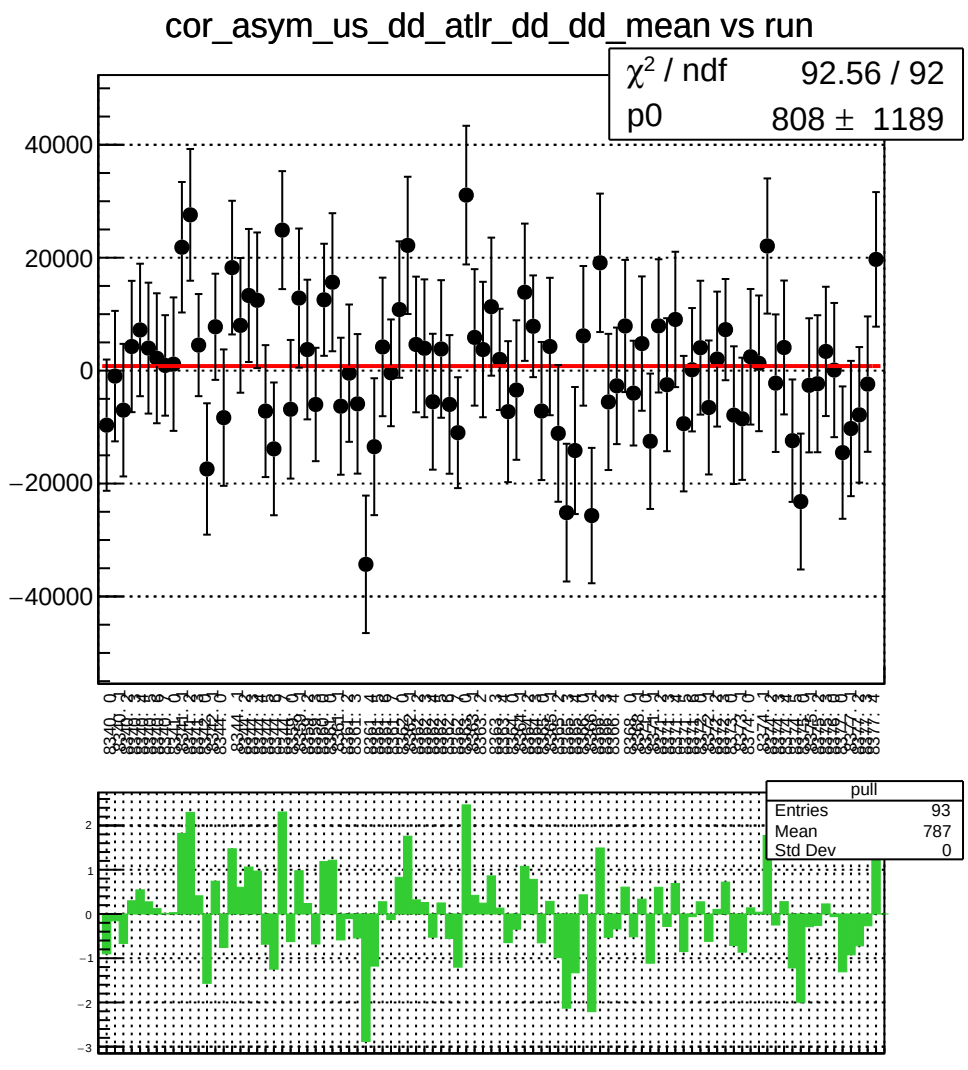

pull1D
Entries 93
Mean −0.006418
Std Dev 0.9976
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

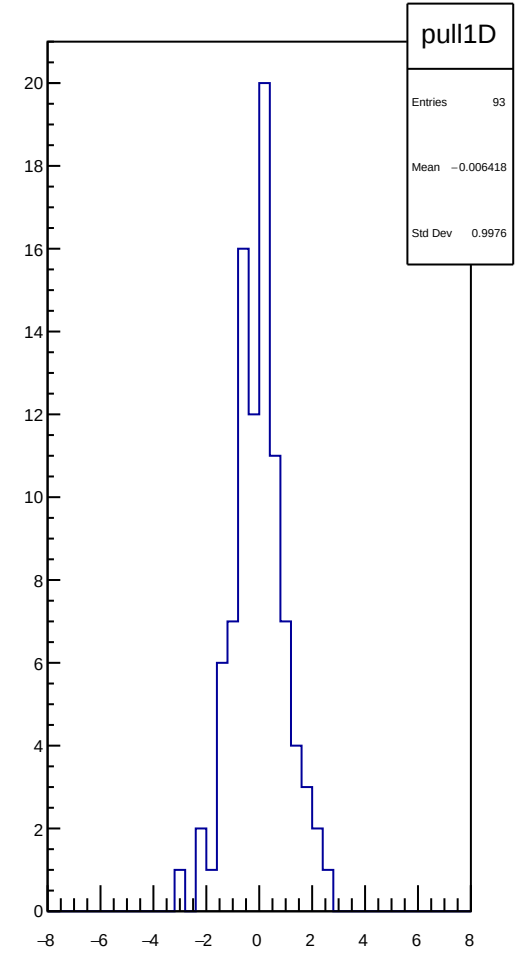

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 761 / 92
p0 1138 ± 0.8407
1200
1180
1160
1140
1120
1100
1080

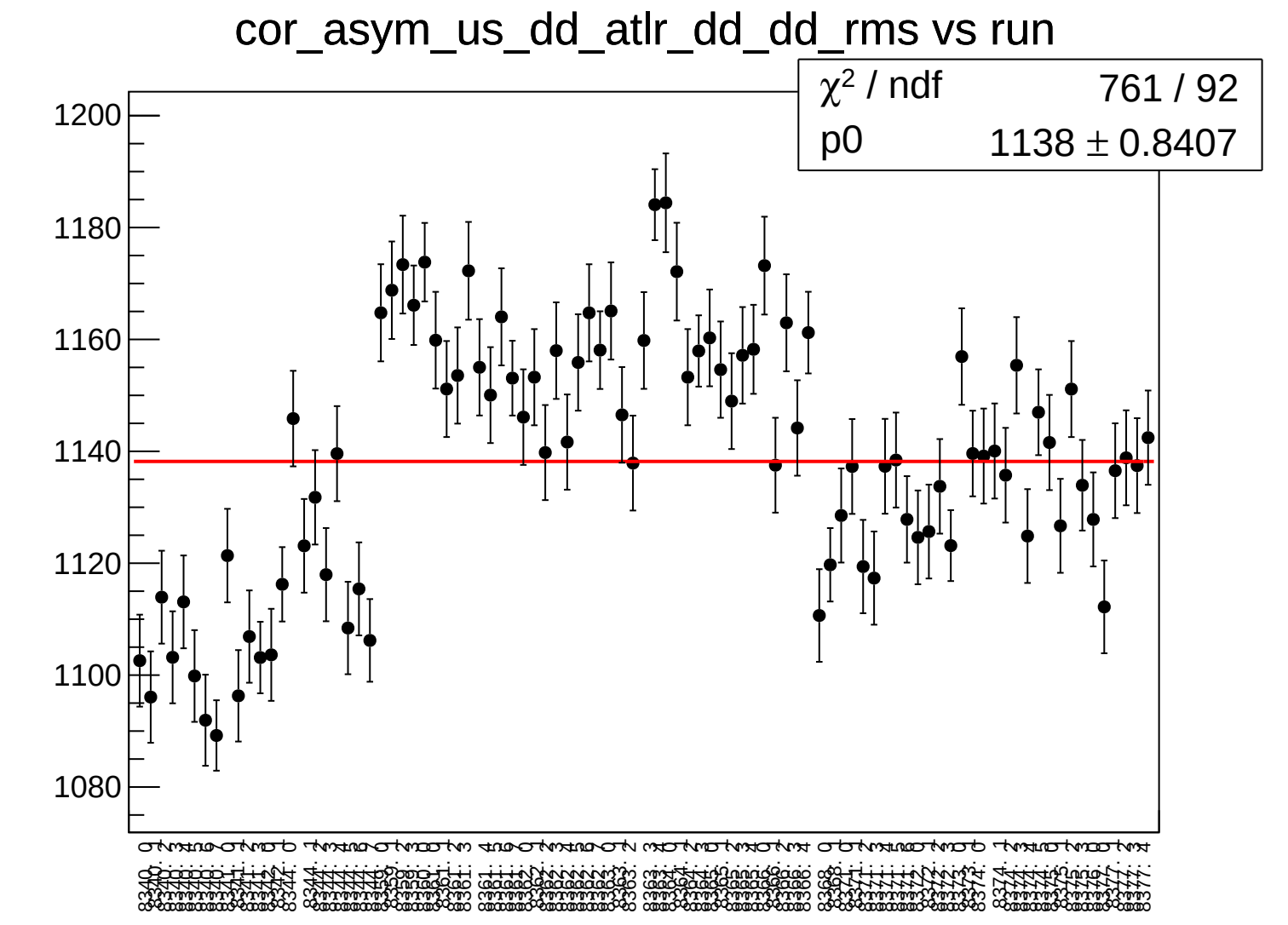

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 90.35 / 92
p0 −3208 ± 504.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −18.52
Std Dev 0
3
2
1
0
−1
−2

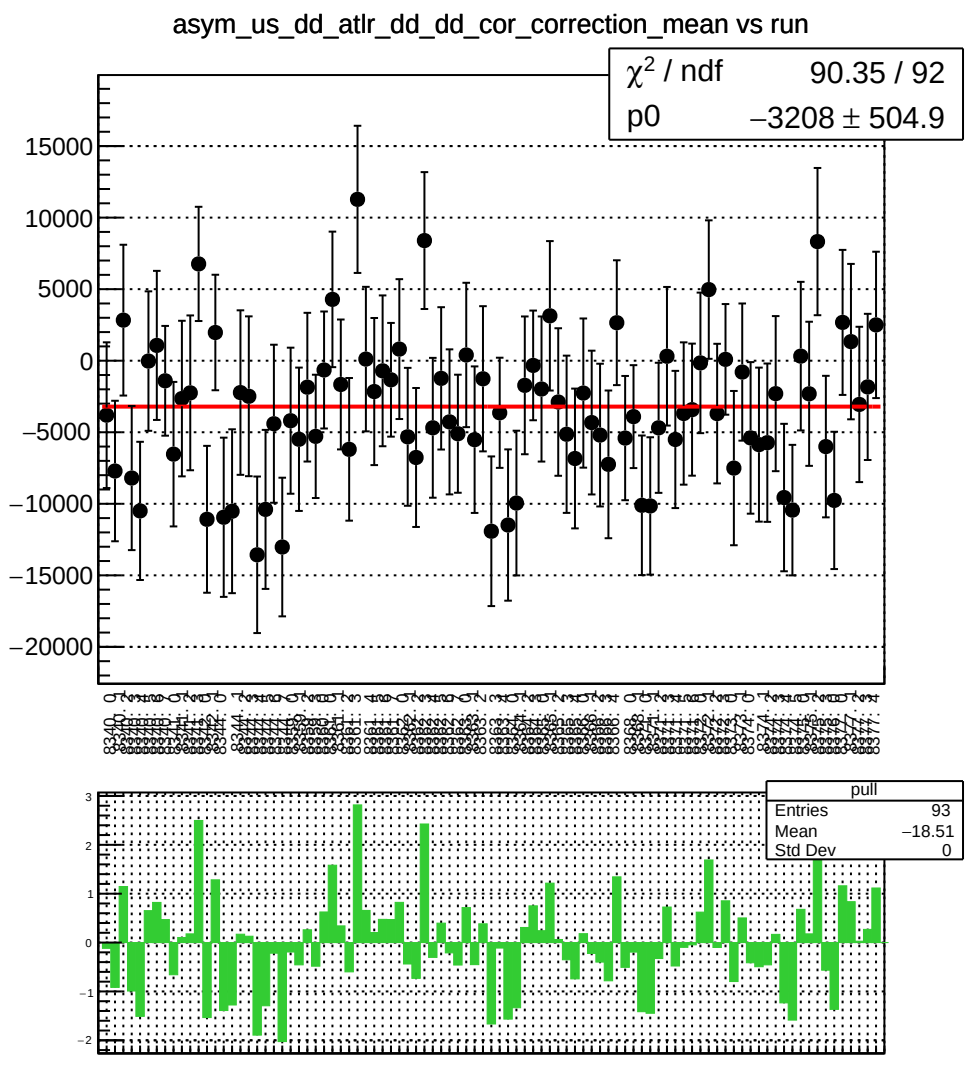

pull1D
Entries 93
Mean −0.0218
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

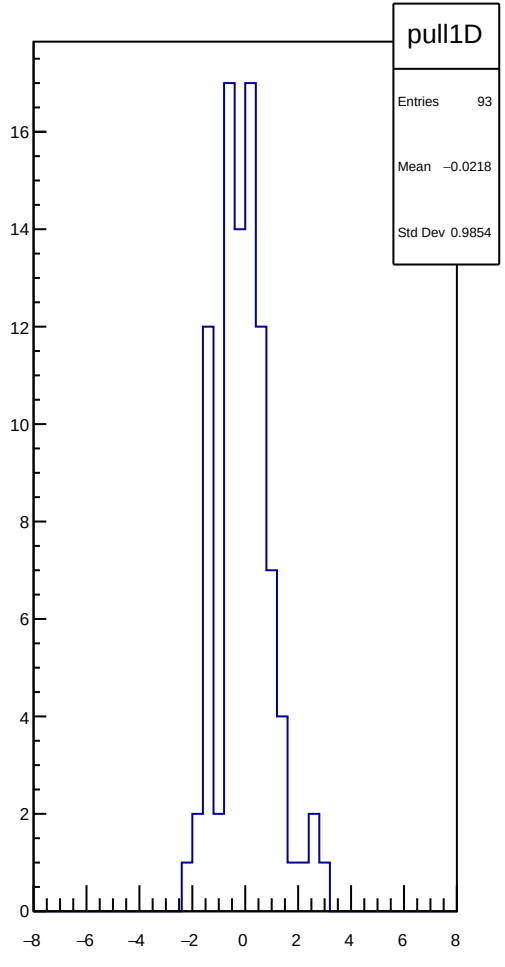

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 4595 / 92
p0 482.8 ± 0.357
560
540
520
500
480
460
440
420
400

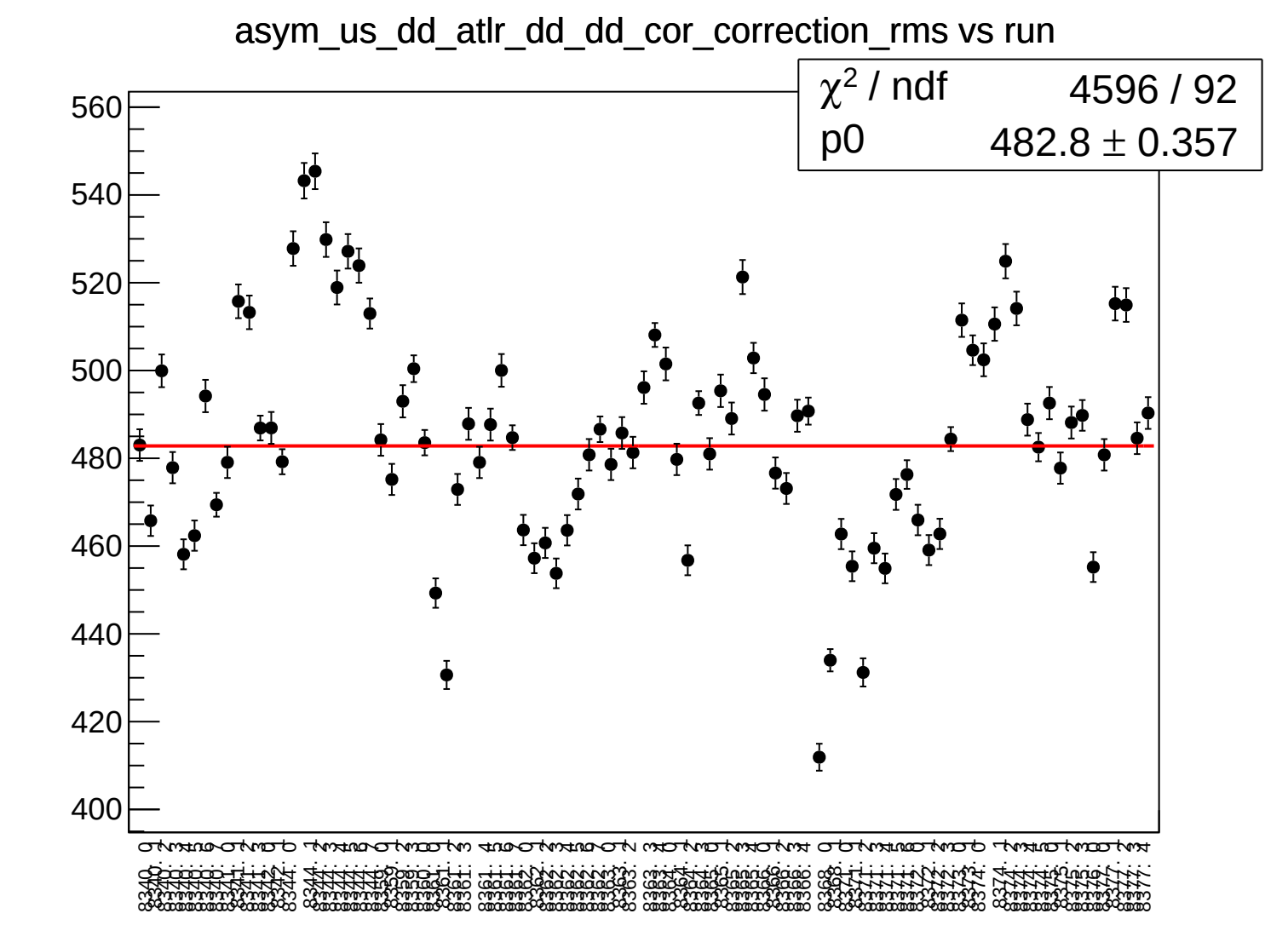

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.56 / 92
p0 808 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 787
Std Dev 0
2
1
0
−1
−2
−3

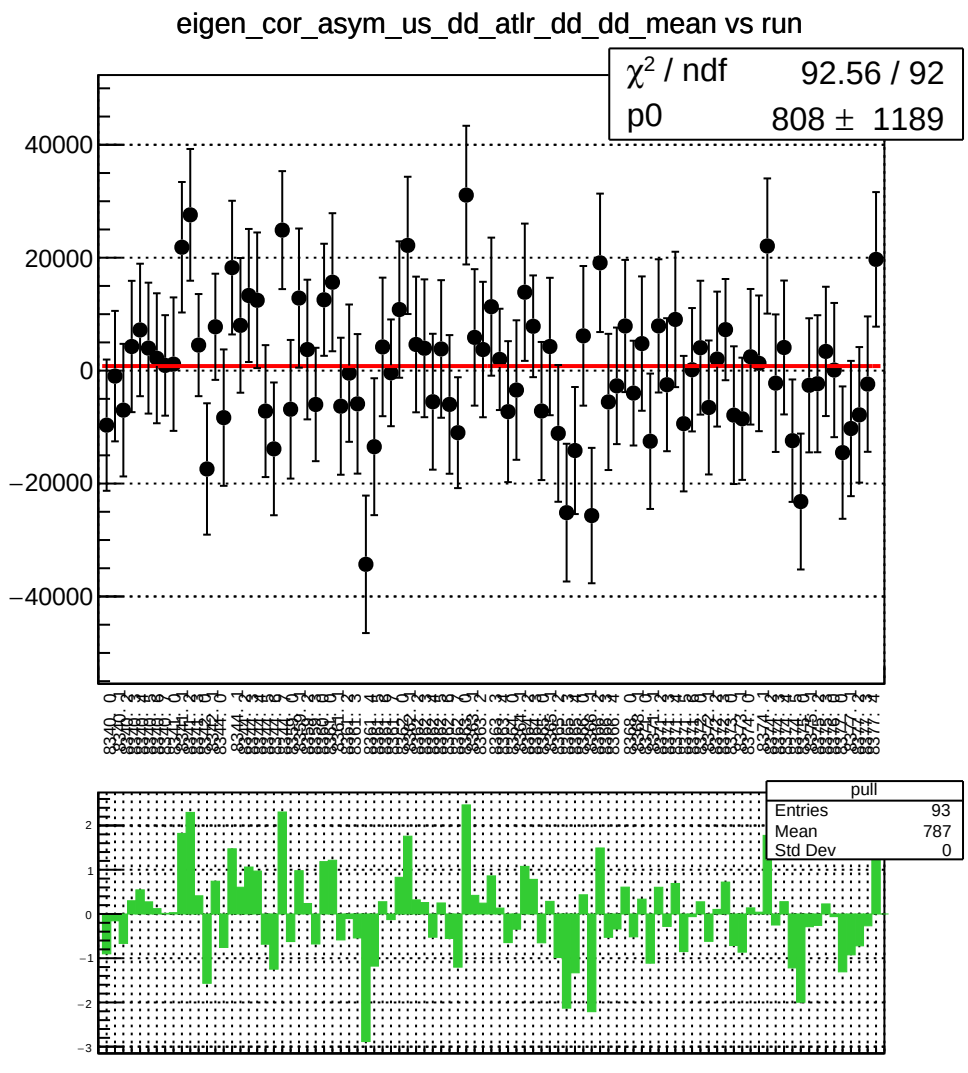

pull1D
Entries 93
Mean −0.006418
Std Dev 0.9976
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

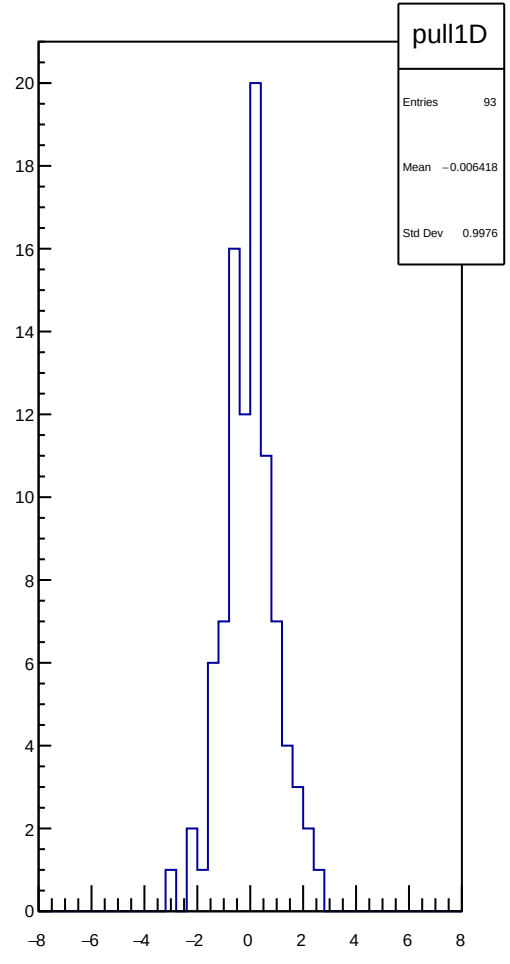

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 761 / 92
p0 1138 ± 0.8407
1200
1180
1160
1140
1120
1100
1080

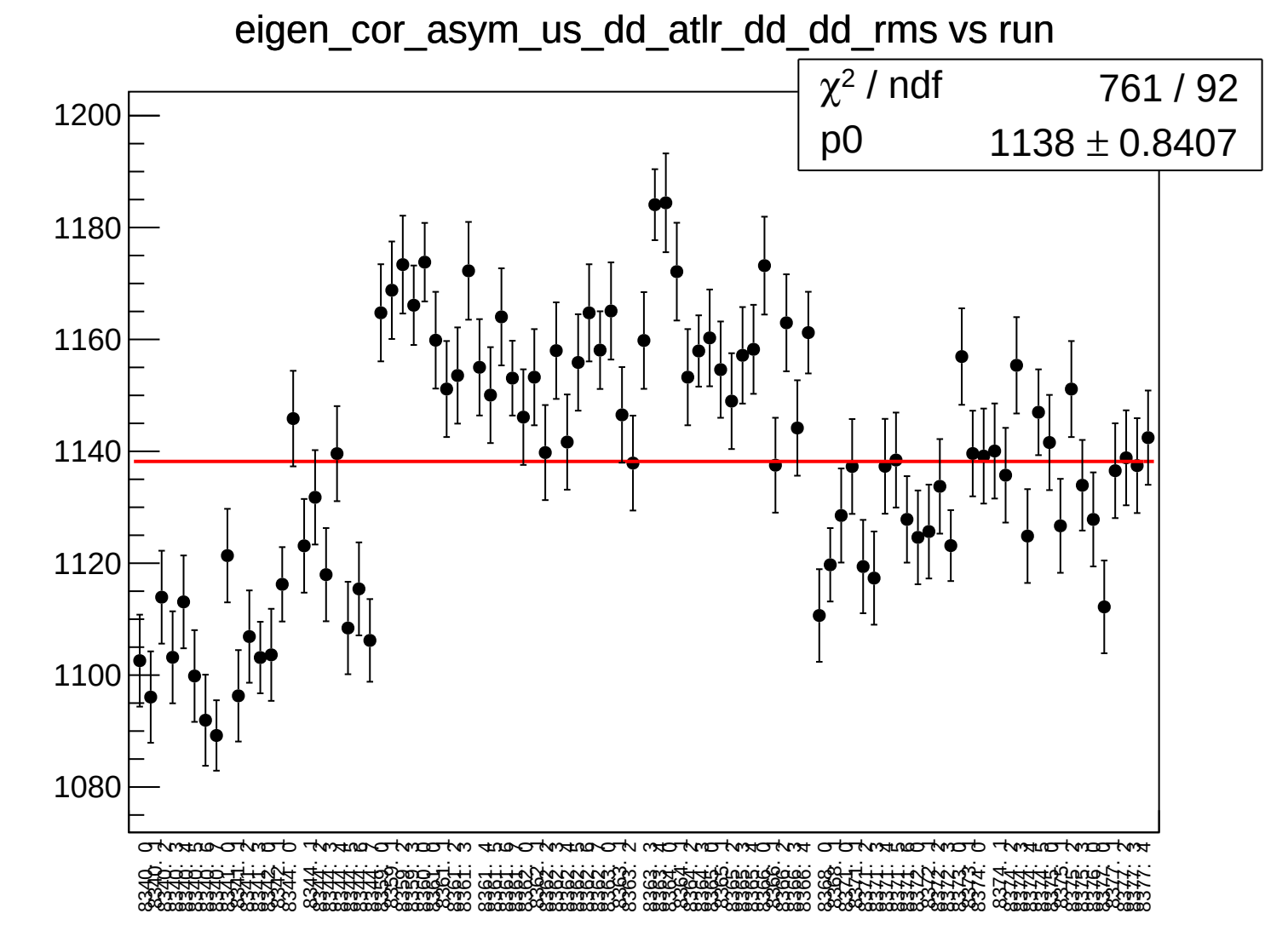

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 90.35 / 92
p0 −3208 ± 504.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −18.51
Std Dev 0
3
2
1
0
−1
−2

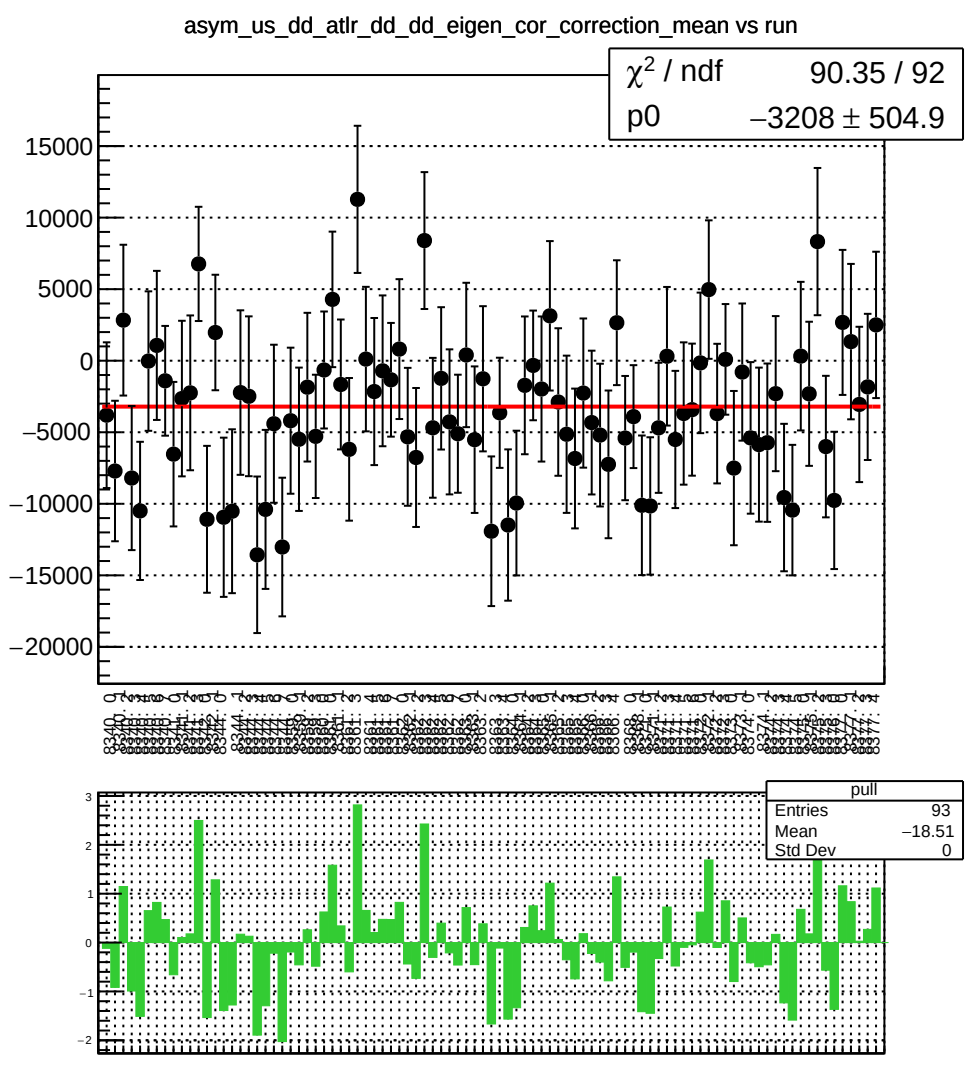

pull1D
Entries 93
Mean −0.0218
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

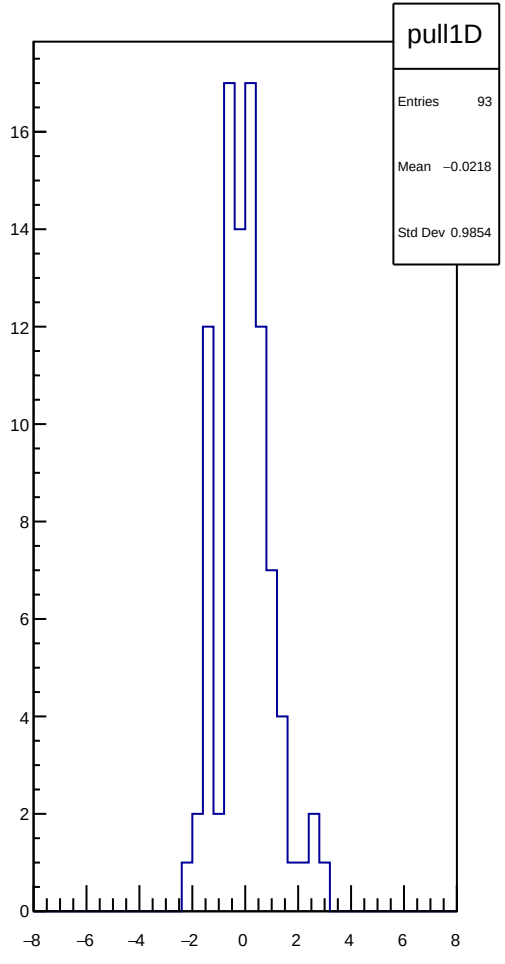

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 4596 / 92
p0 482.8 ± 0.357
560
540
520
500
480
460
440
420
400

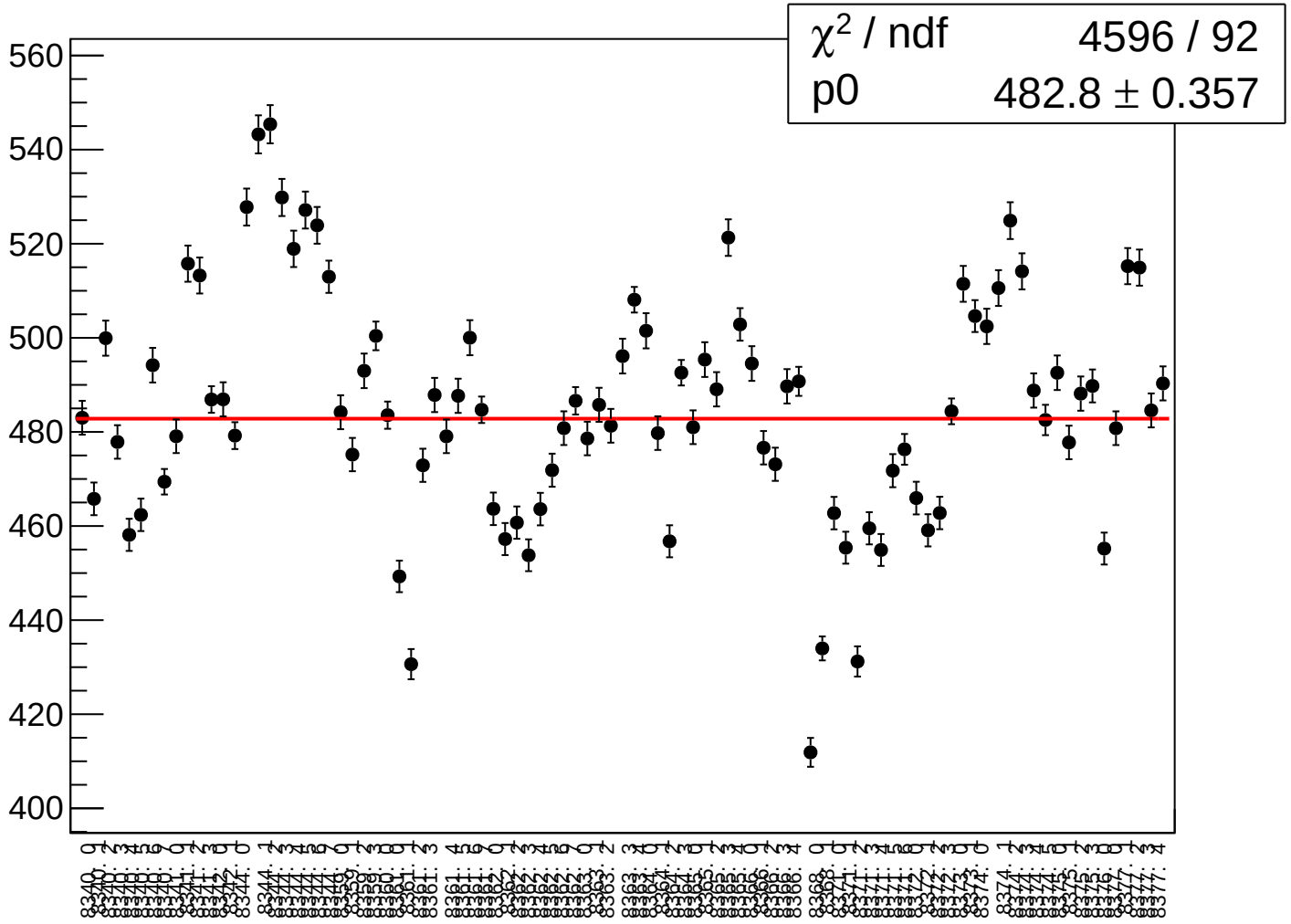

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 92.56 / 92
p0 808 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 787
Std Dev 0
2
1
0
−1
−2
−3

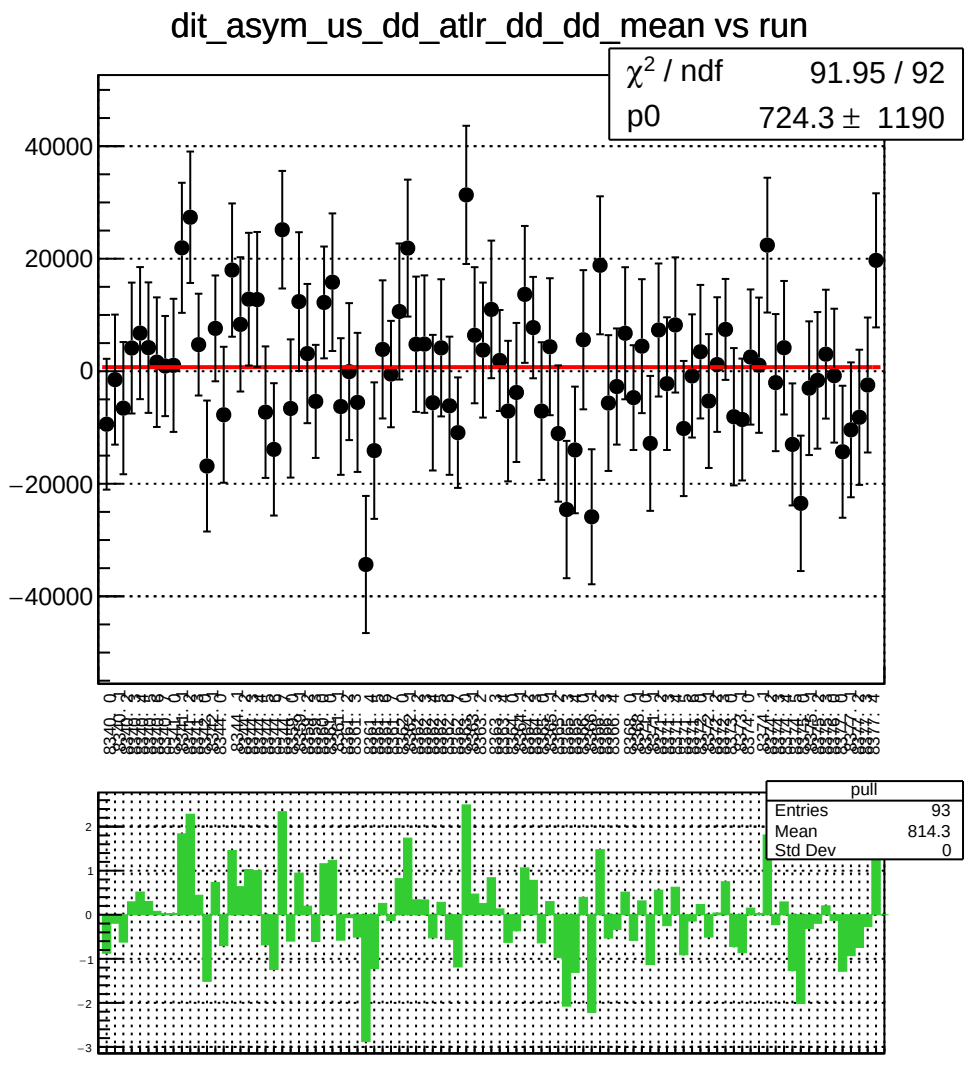

pull1D
Entries 93
Mean −0.006418
Std Dev 0.9976
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

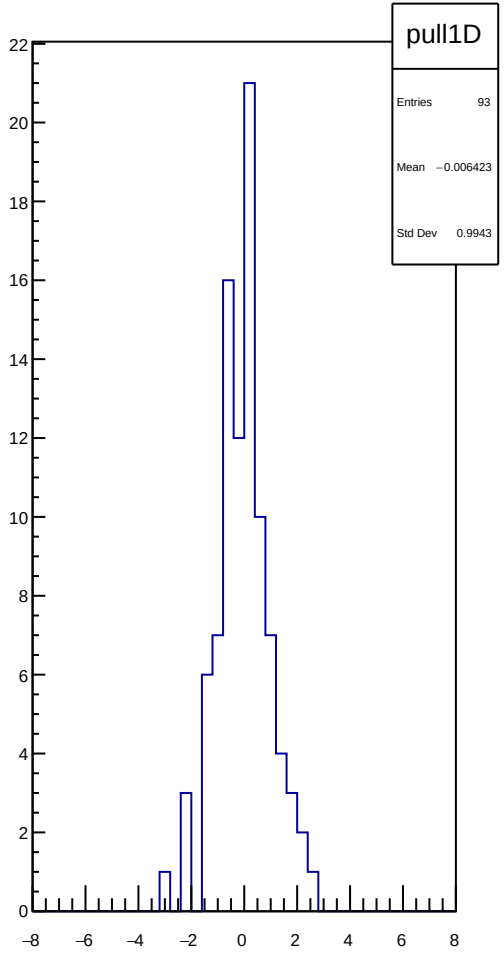

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 761 / 92
p0 1138 ± 0.8407
1200
1180
1160
1140
1120
1100
1080

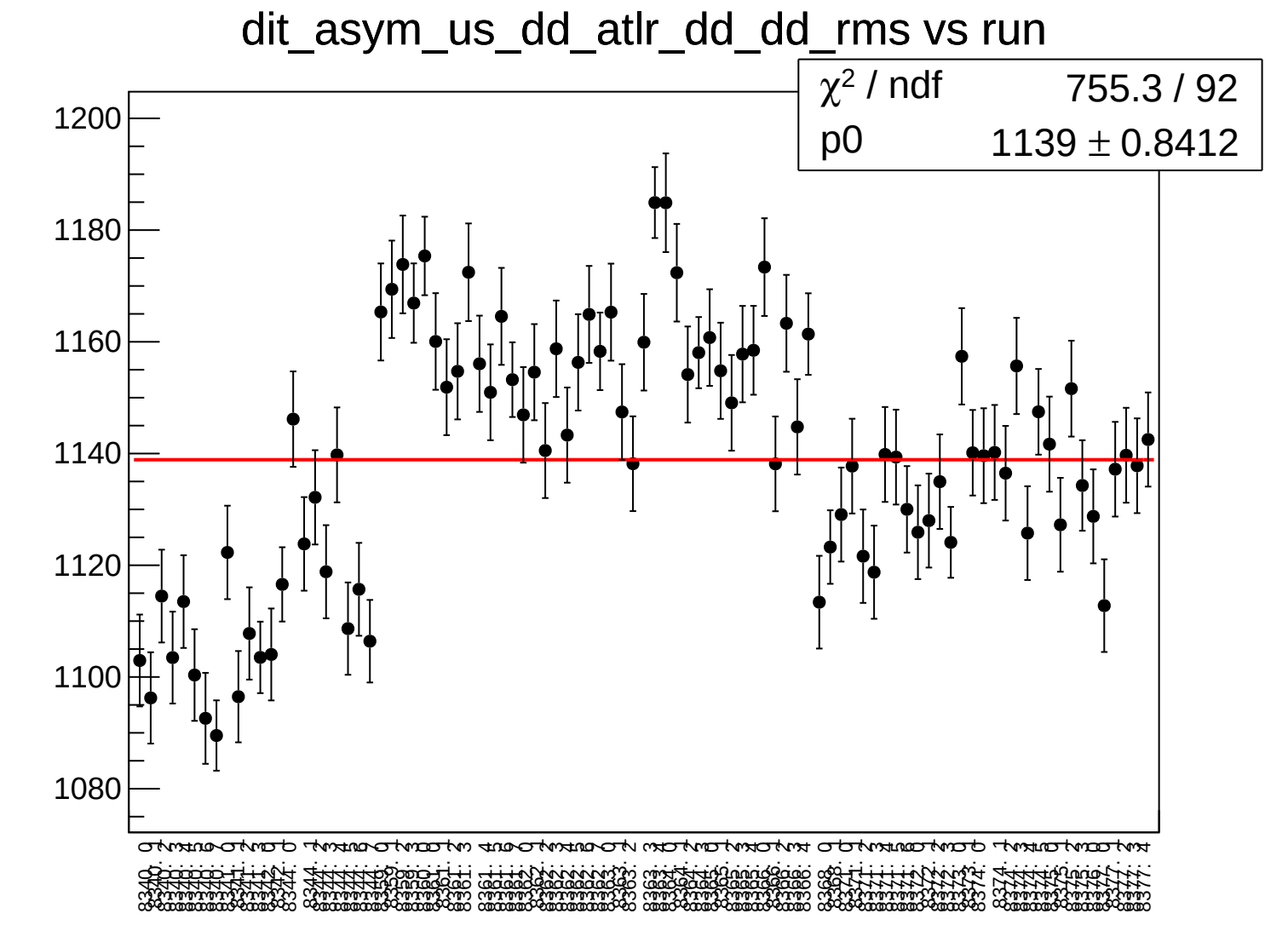

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 90.35 / 92
p0 −3208 ± 504.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −18.51
Std Dev 0
3
2
1
0
−1
−2

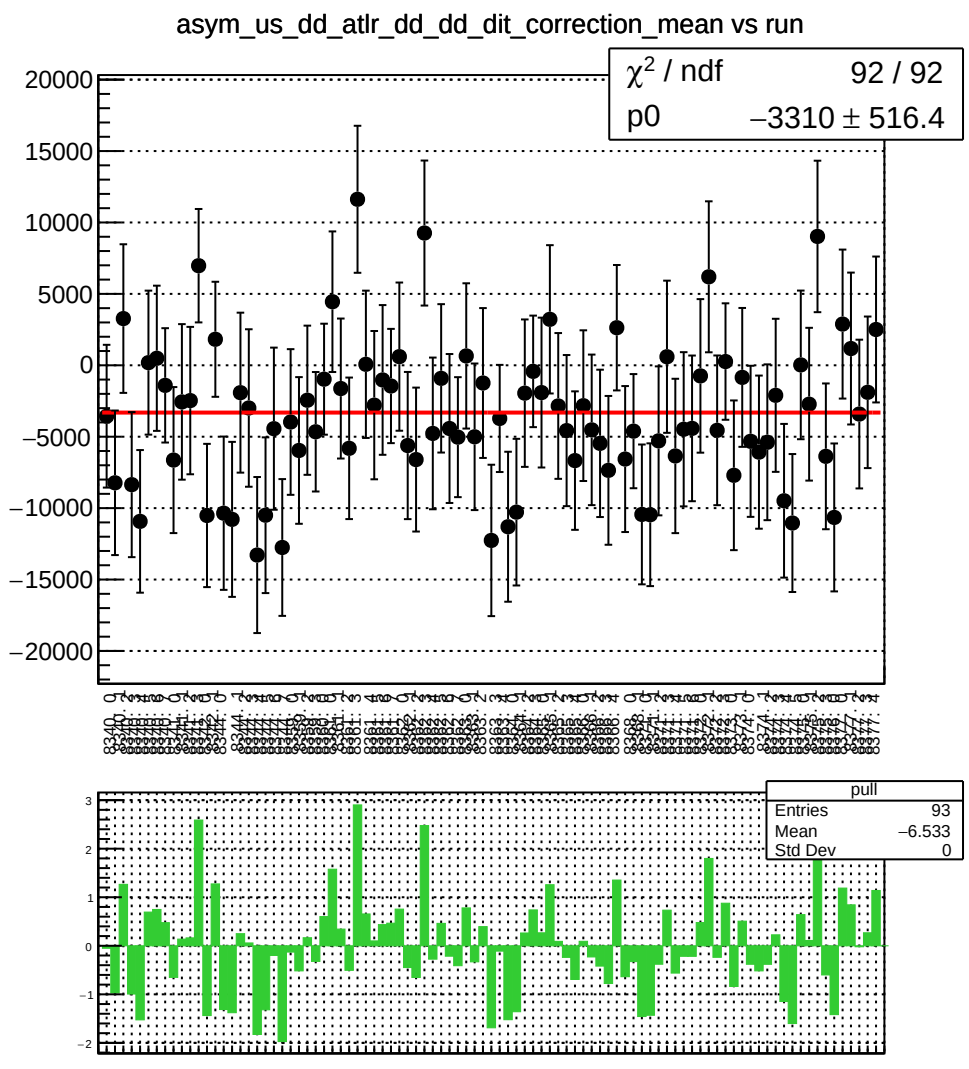

pull1D
Entries 93
Mean −0.0218
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

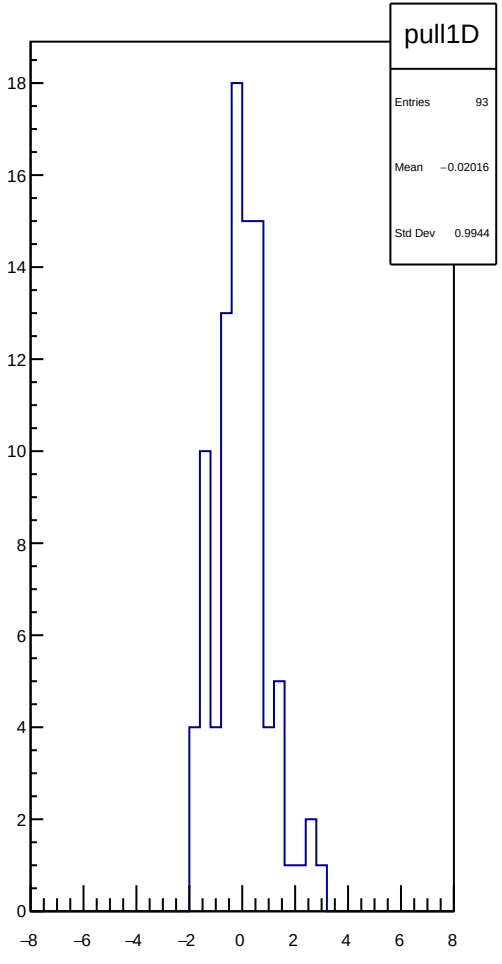

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4596 / 92
p0 482.8 ± 0.357
560
540
520
500
480
460
440
420
400

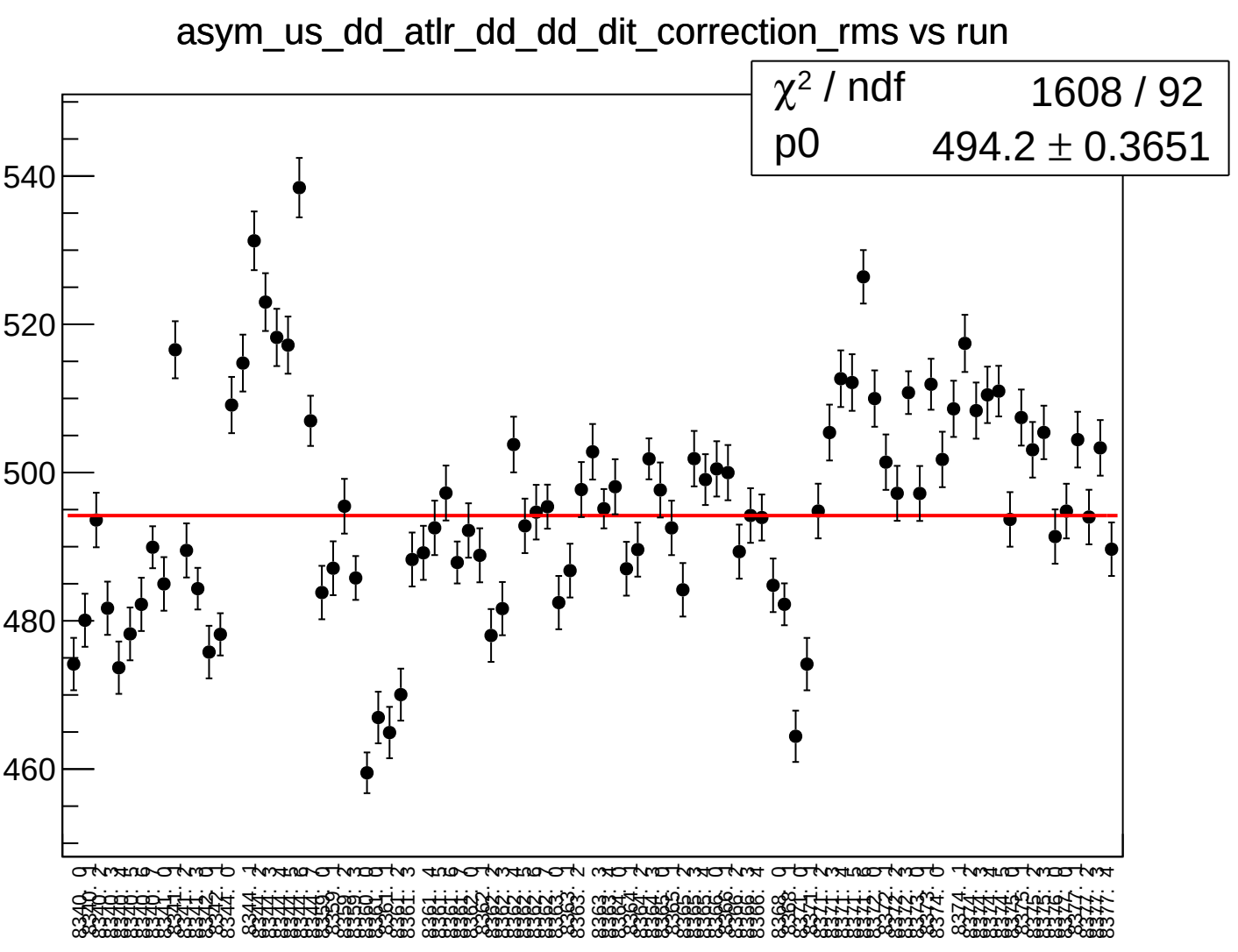

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.95 / 92
p0 724.3 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 814.3
Std Dev 0
2
1
0
−1
−2
−3

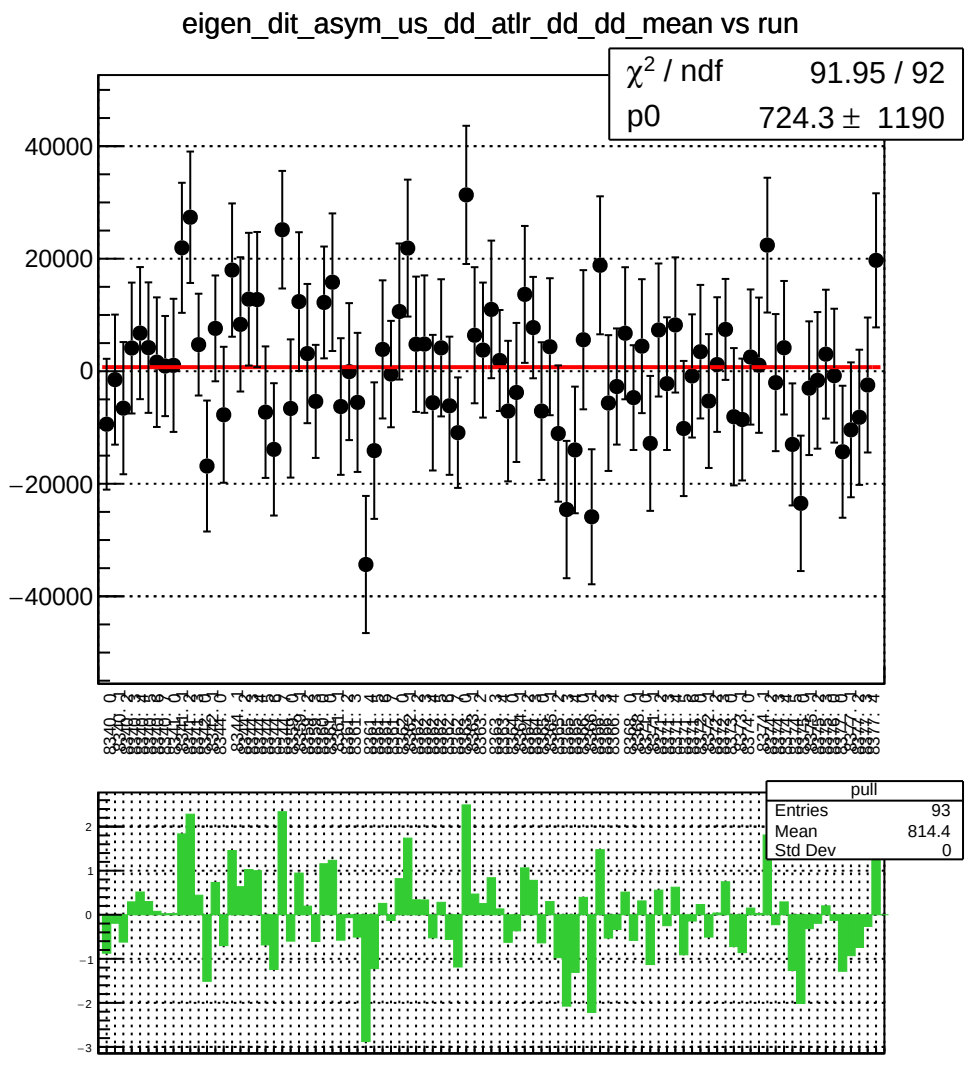

pull1D
Entries 93
Mean −0.006423
Std Dev 0.9943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

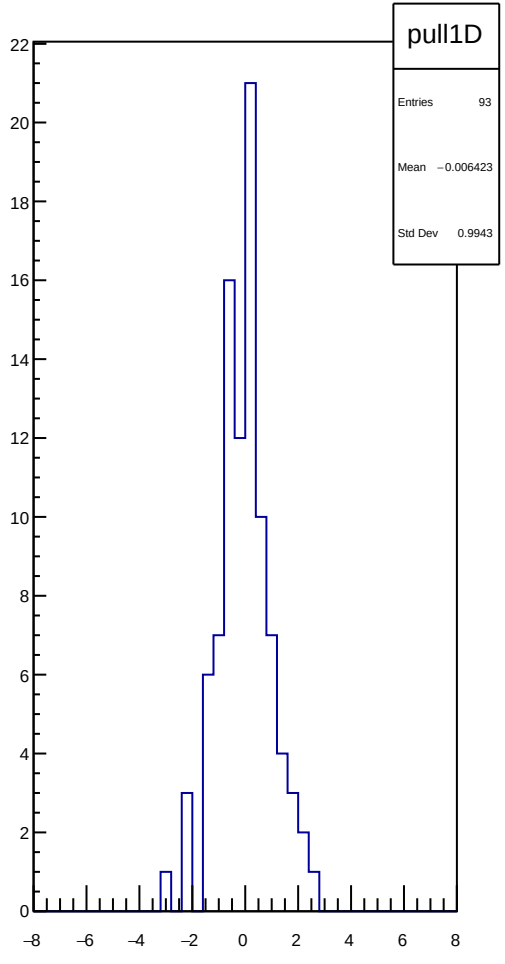

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 755.3 / 92
p0 1139 ± 0.8412
1200
1180
1160
1140
1120
1100
1080

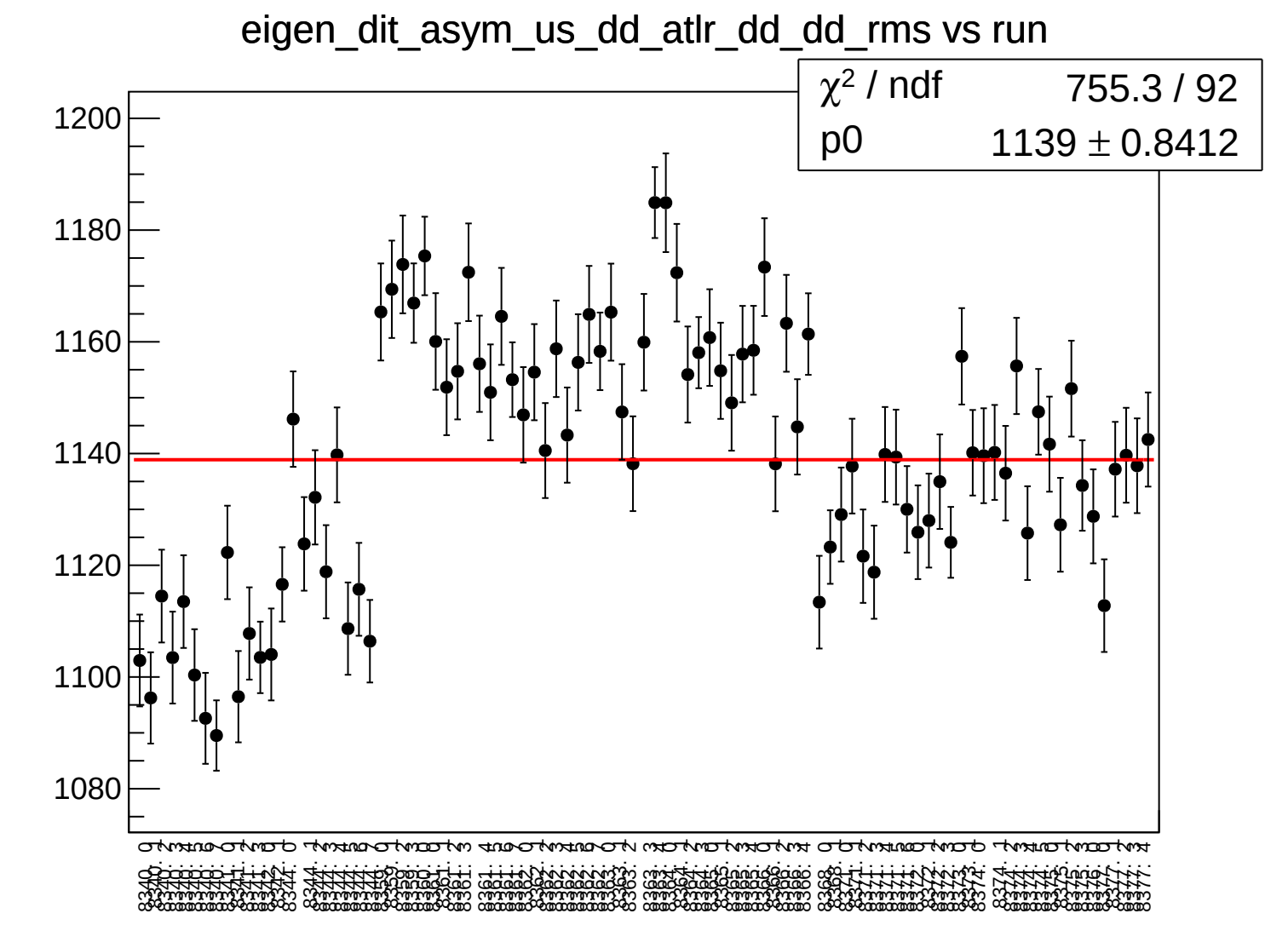

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 92 / 92
p0 −3310 ± 516.4
pull
Entries 93
Mean −6.533
Std Dev 0

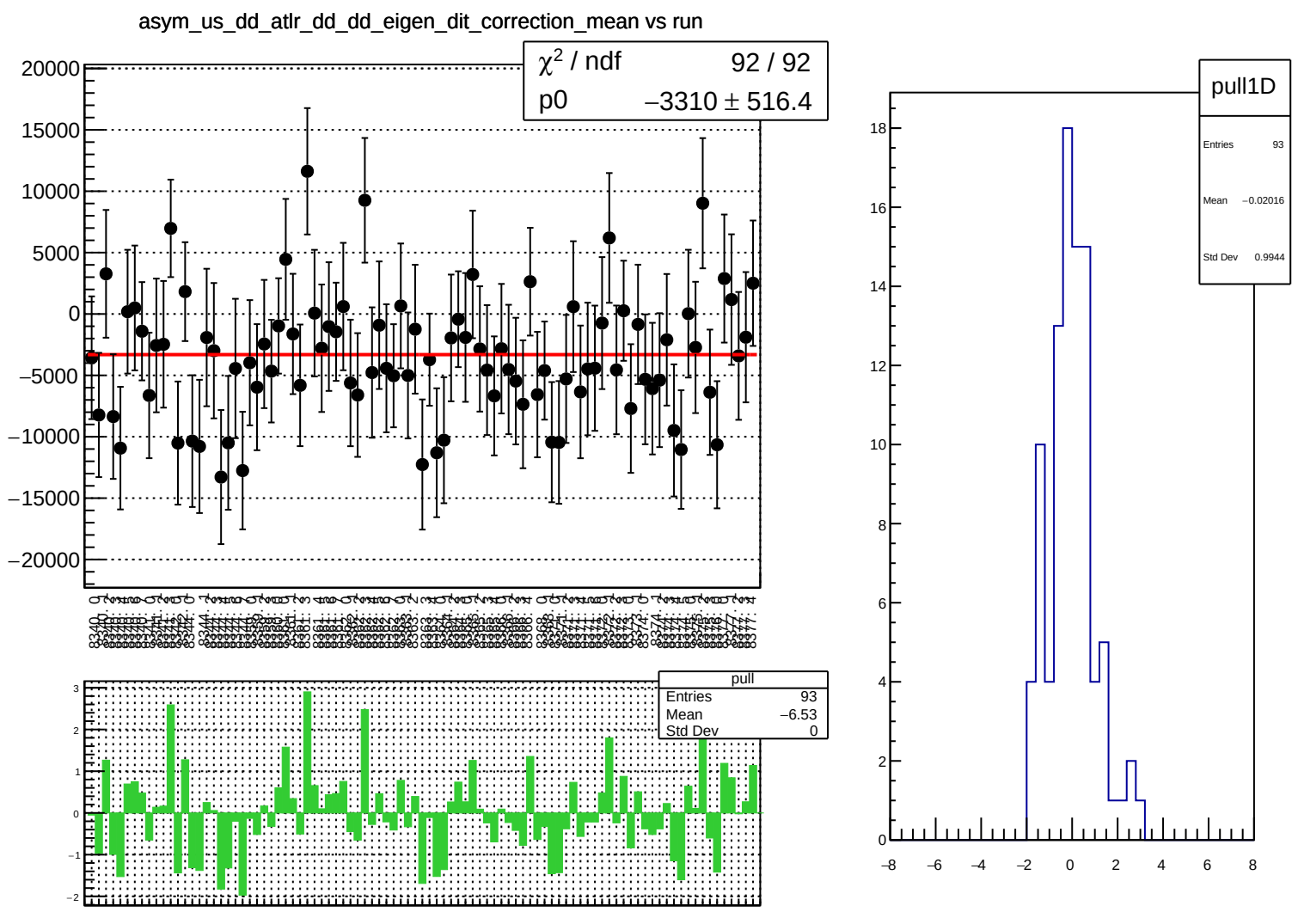

pull1D
Entries 93
Mean −0.02016
Std Dev 0.9944

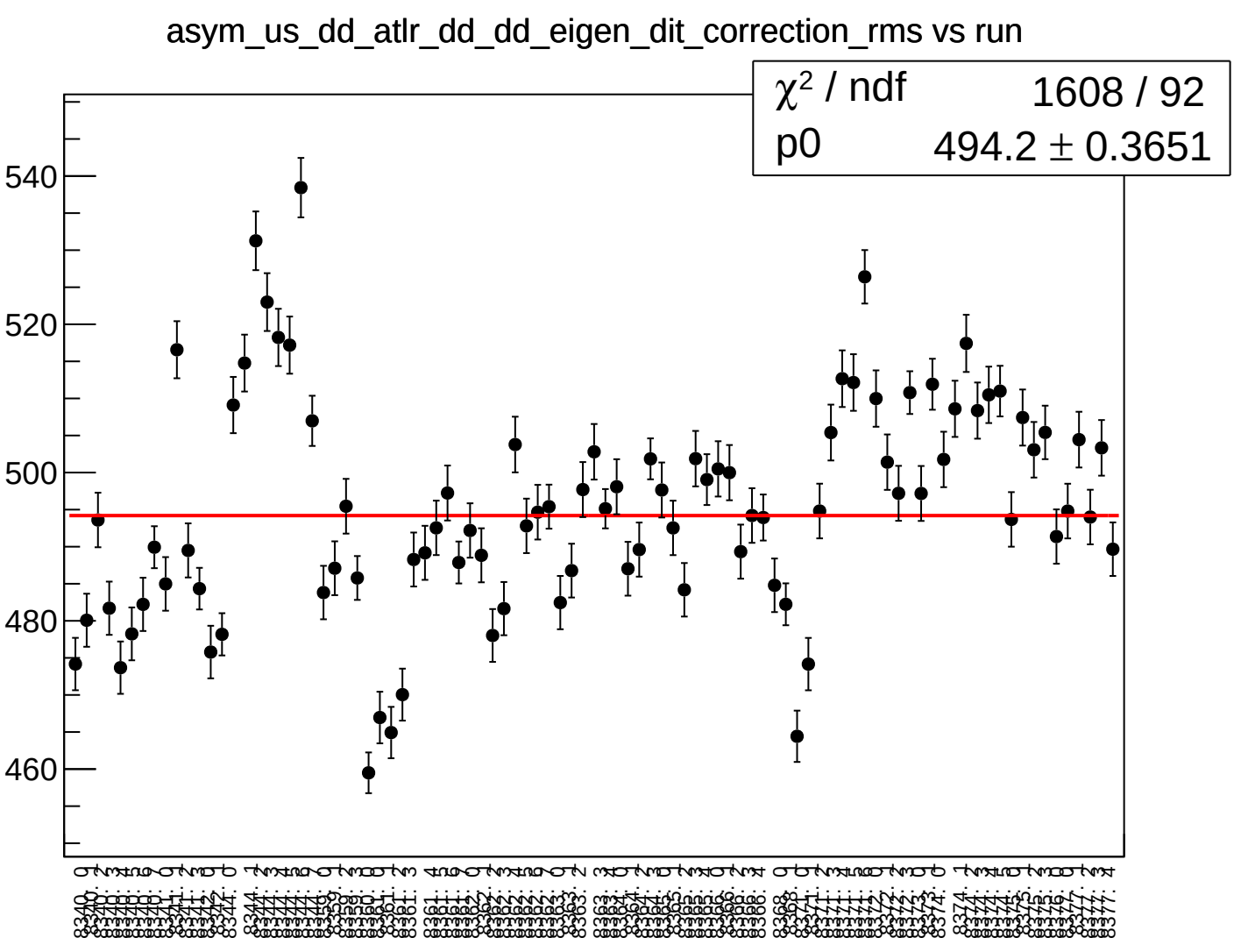

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1608 / 92
p0 494.2 ± 0.3651
540
520
500
480
460

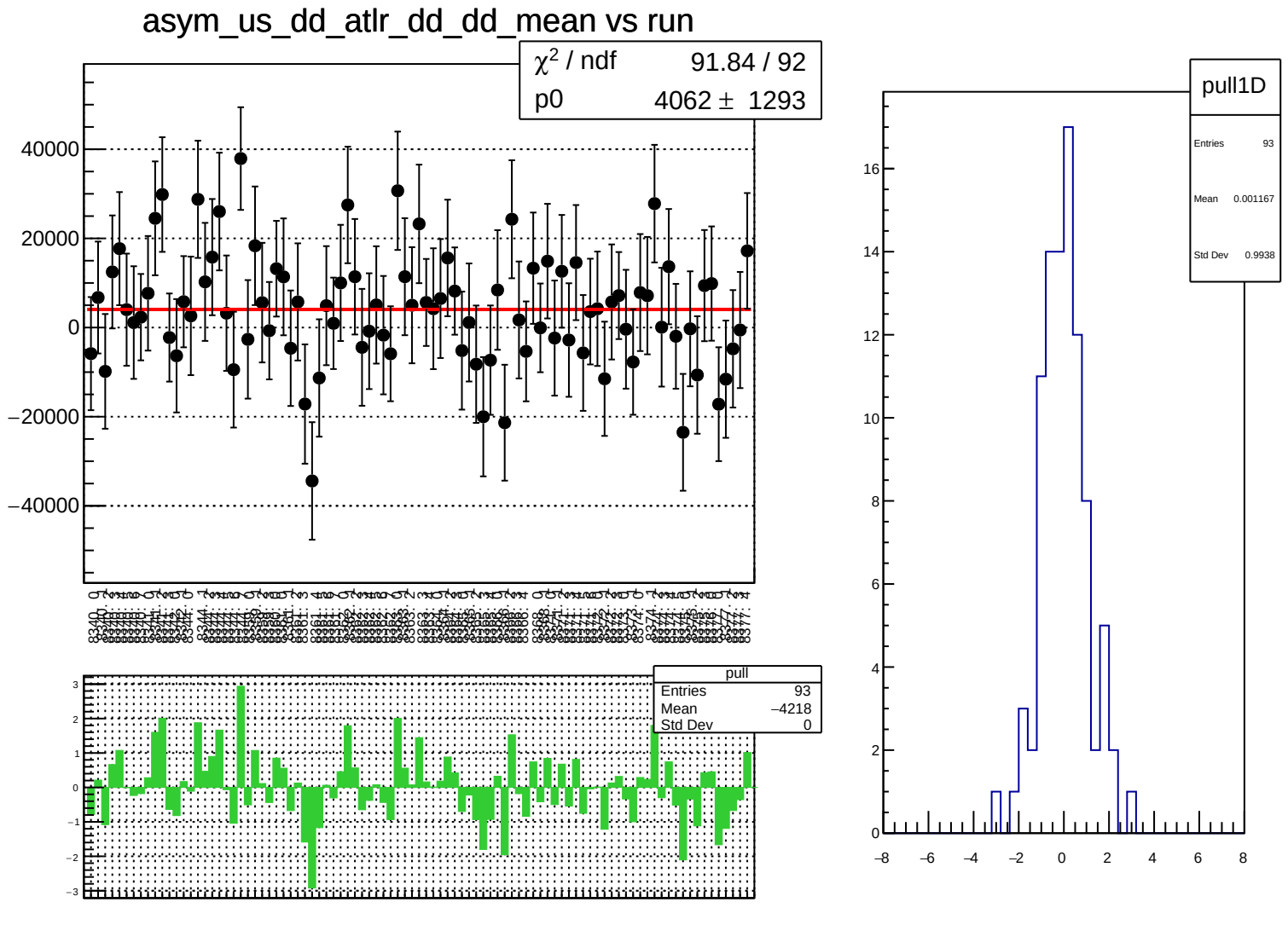

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.95 / 92
p0 724.3 ± 1190
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 814.4
Std Dev 0
2
1
0
−1
−2
−3

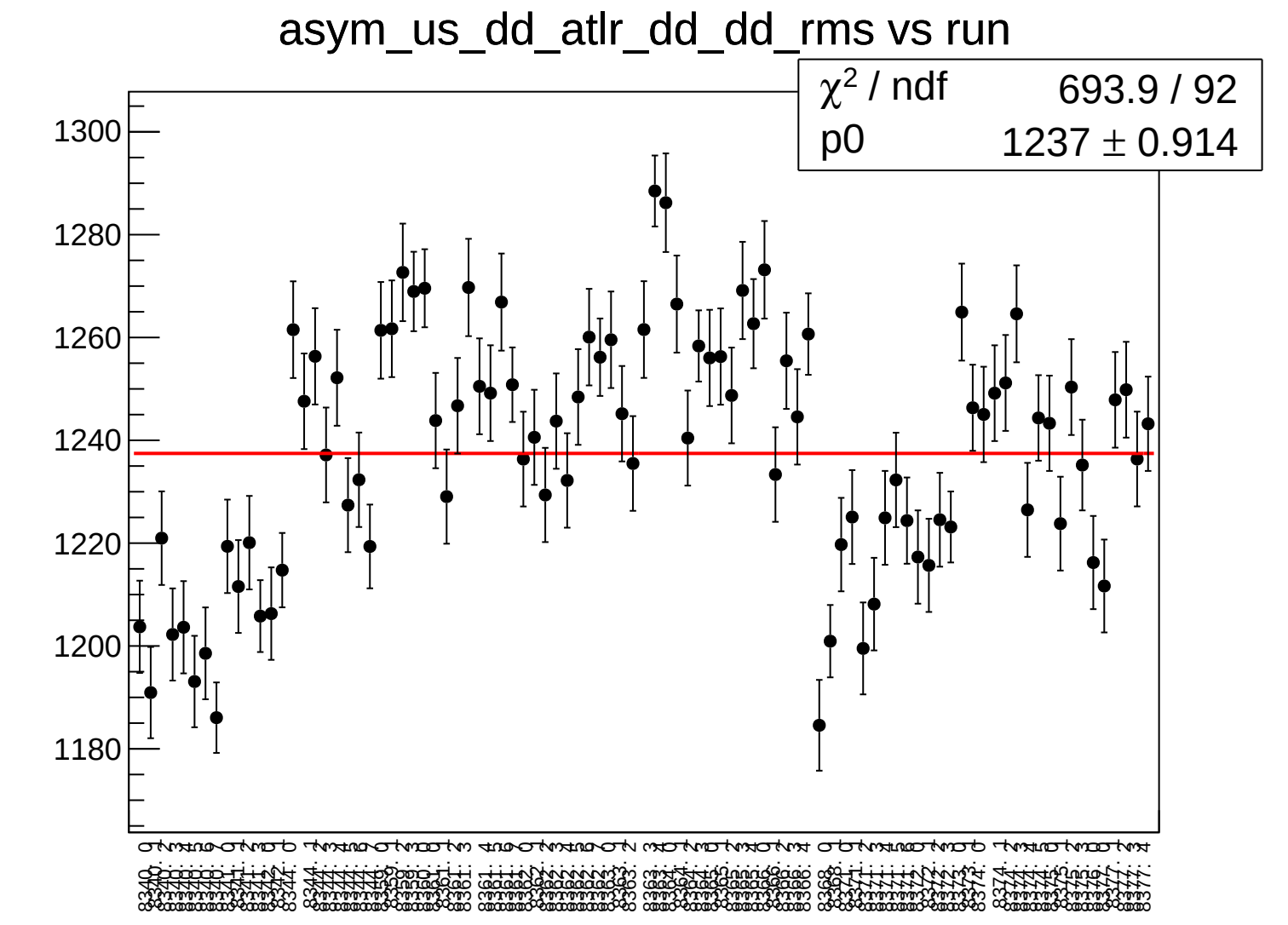

pull1D
Entries 93
Mean −0.006423
Std Dev 0.9943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

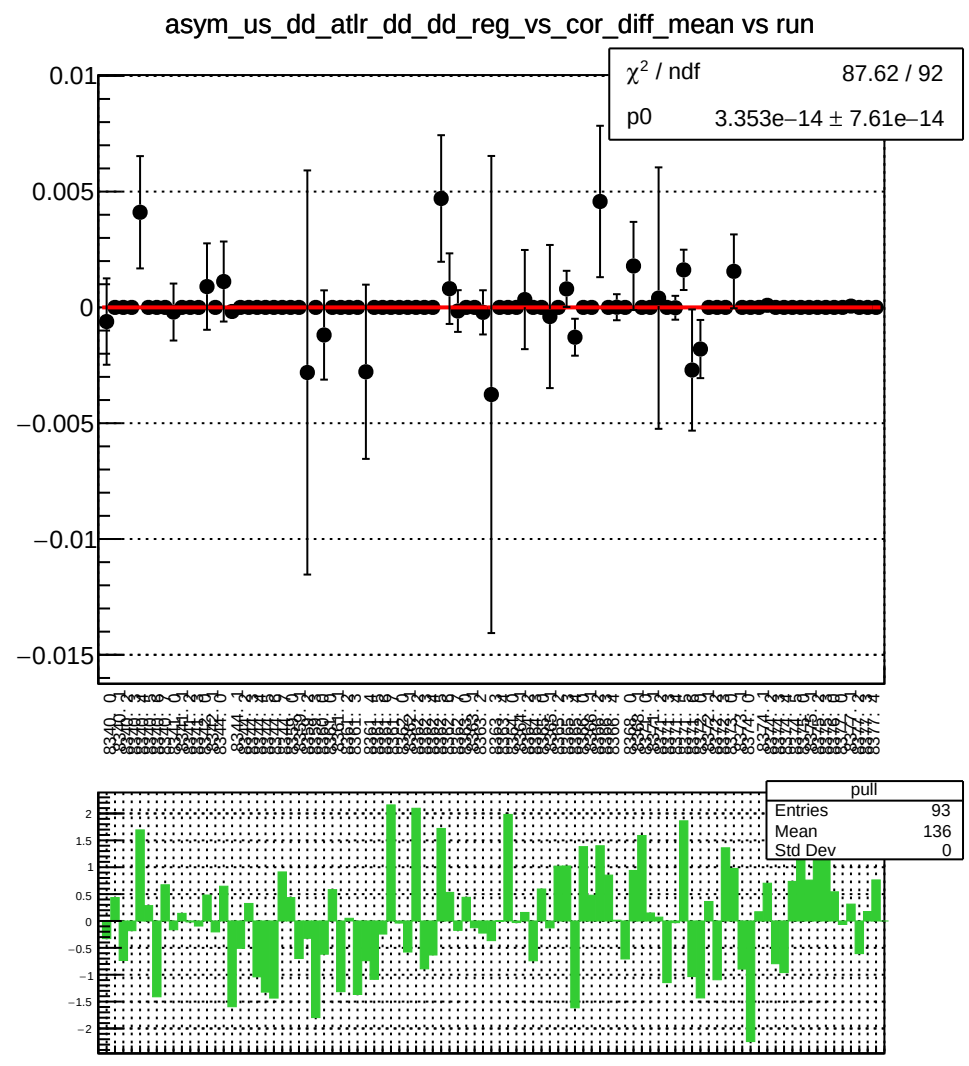

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 755.3 / 92
p0 1139 ± 0.8412
1200
1180
1160
1140
1120
1100
1080

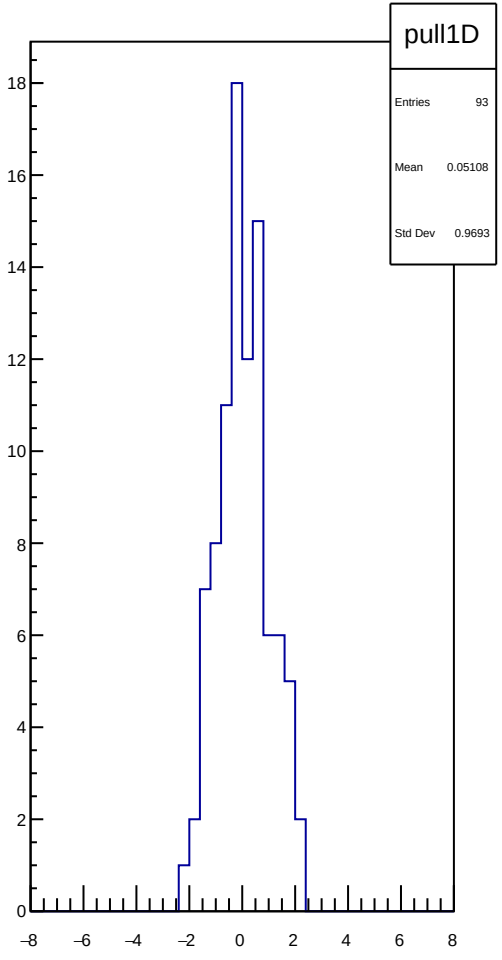

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 92 / 92
p0 −3310 ± 516.4
pull
Entries 93
Mean −6.53
Std Dev 0
pull1D
Entries 93
Mean −0.02016
Std Dev 0.9944

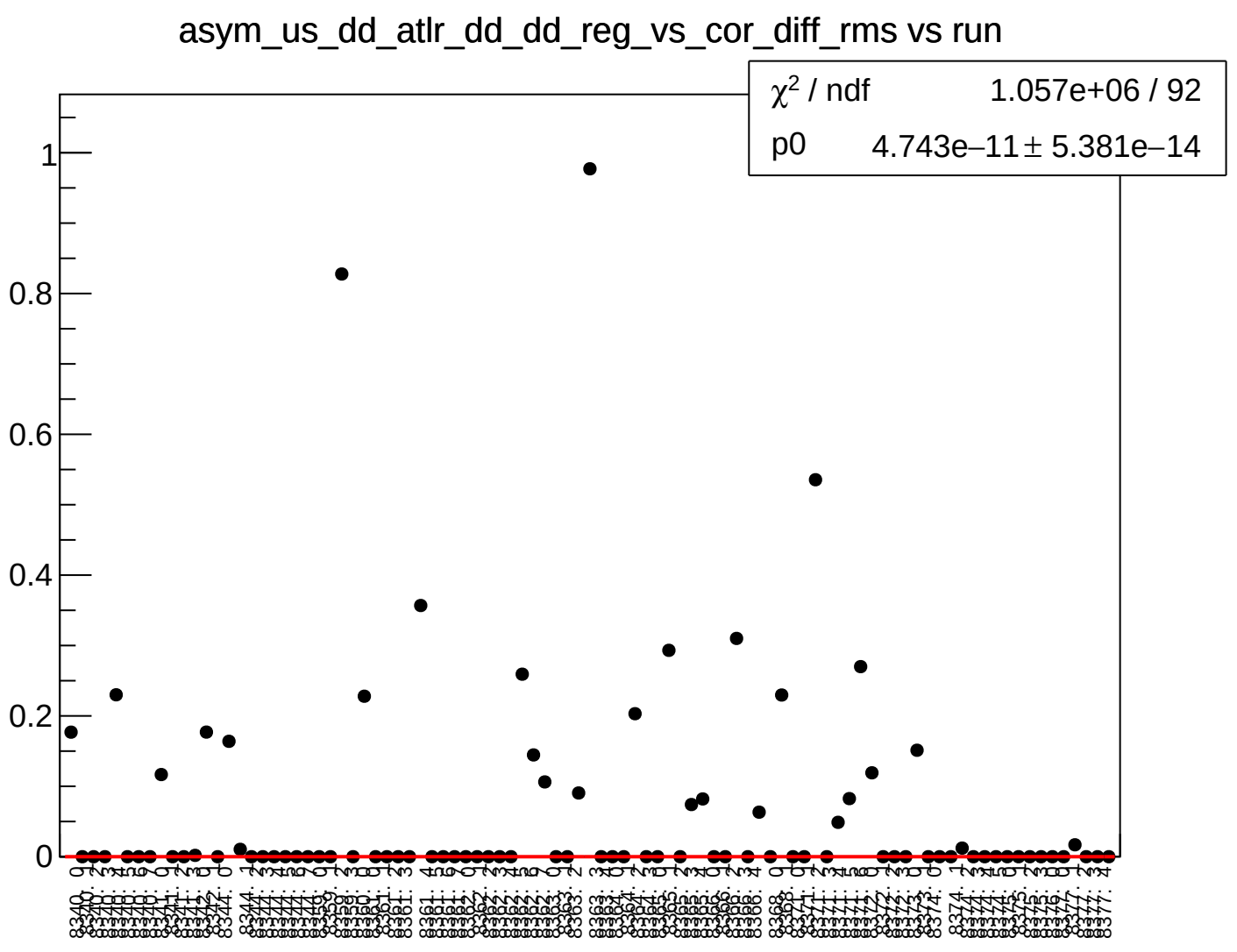

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1608 / 92
p0 494.2 ± 0.3651
540
520
500
480
460

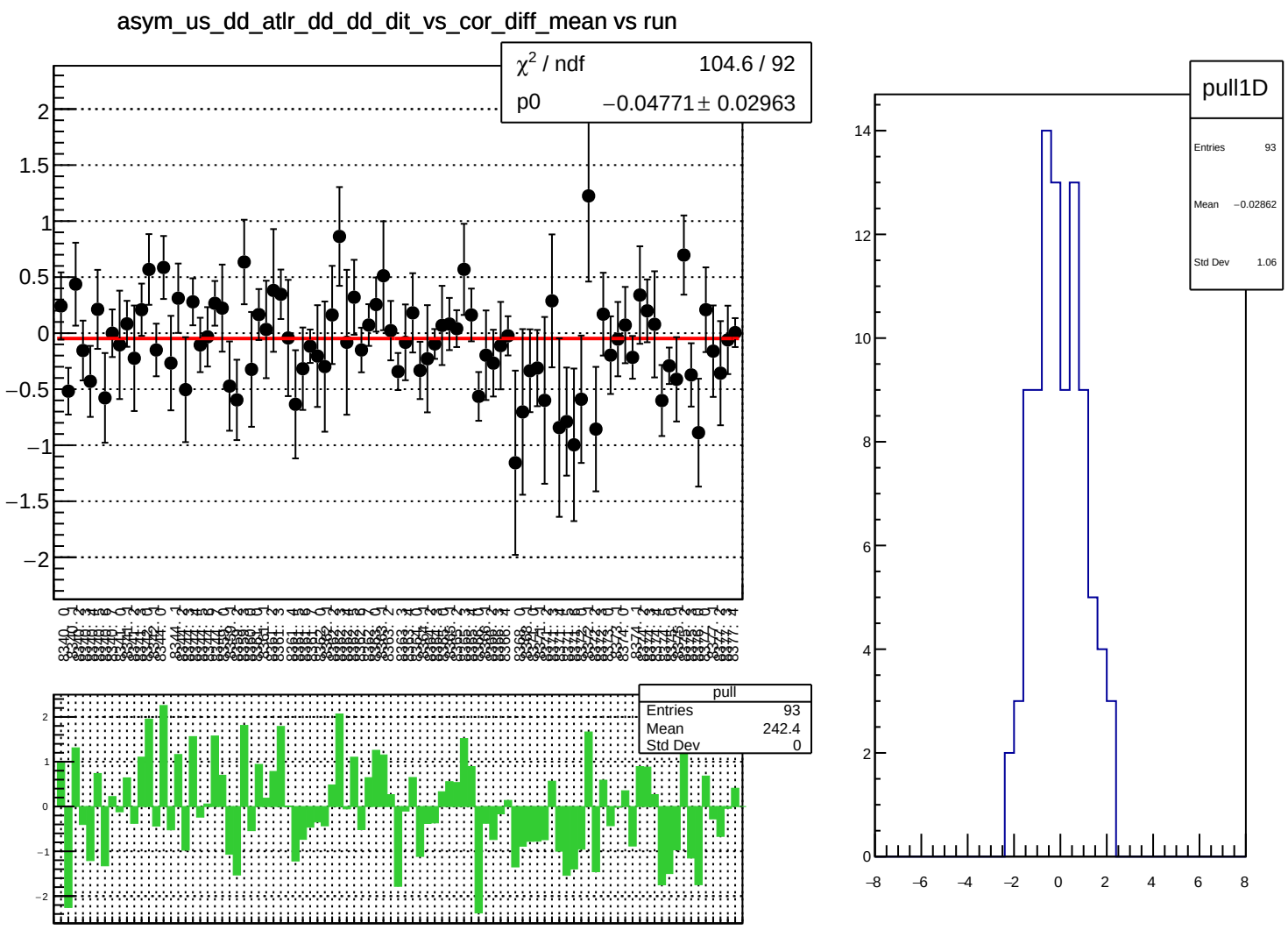

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 91.84 / 92
p0 4062 ± 1293
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −4218
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001167
Std Dev 0.9938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

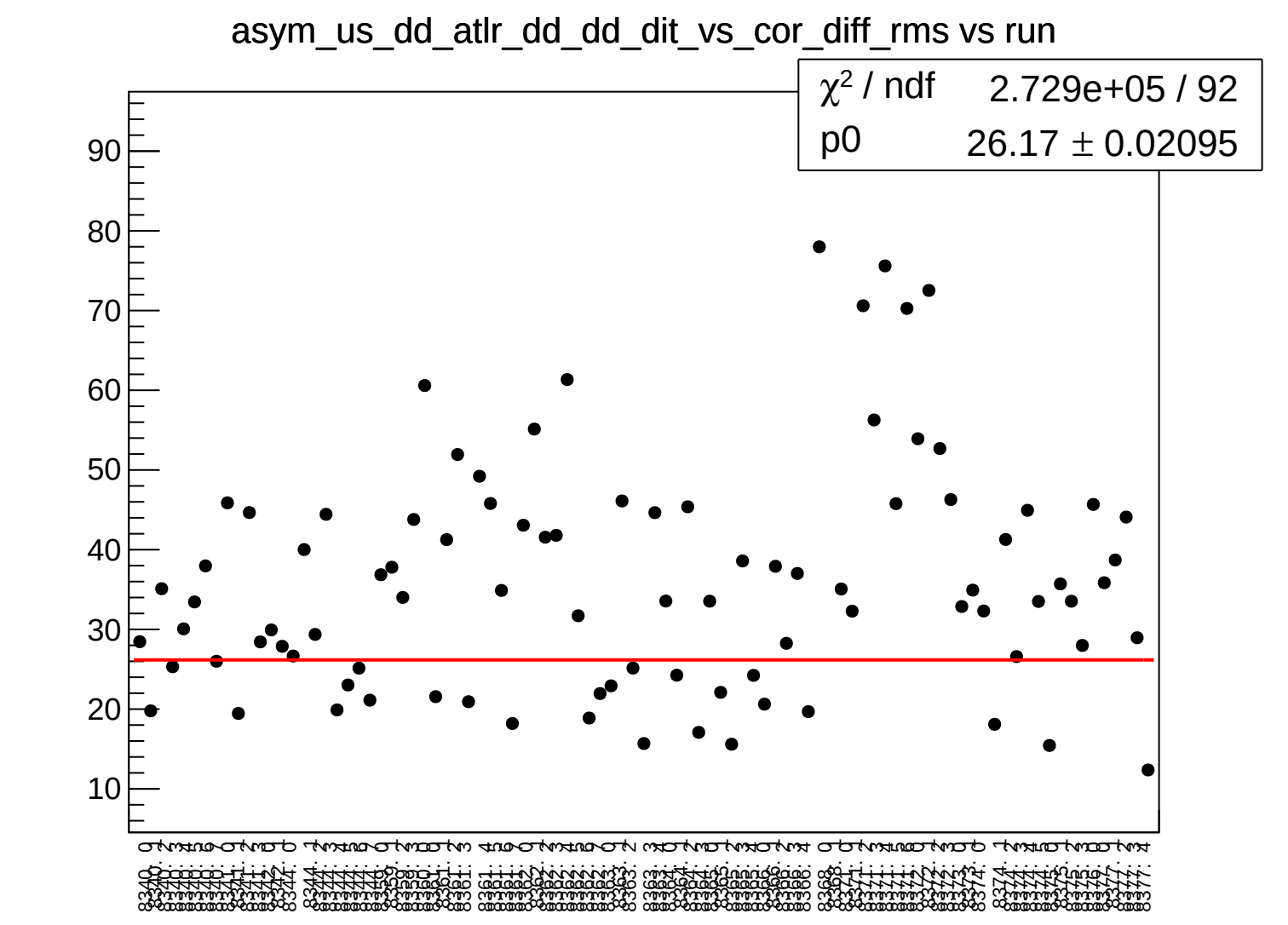

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 693.9 / 92
p0 1237 ± 0.914
1300
1280
1260
1240
1220
1200
1180

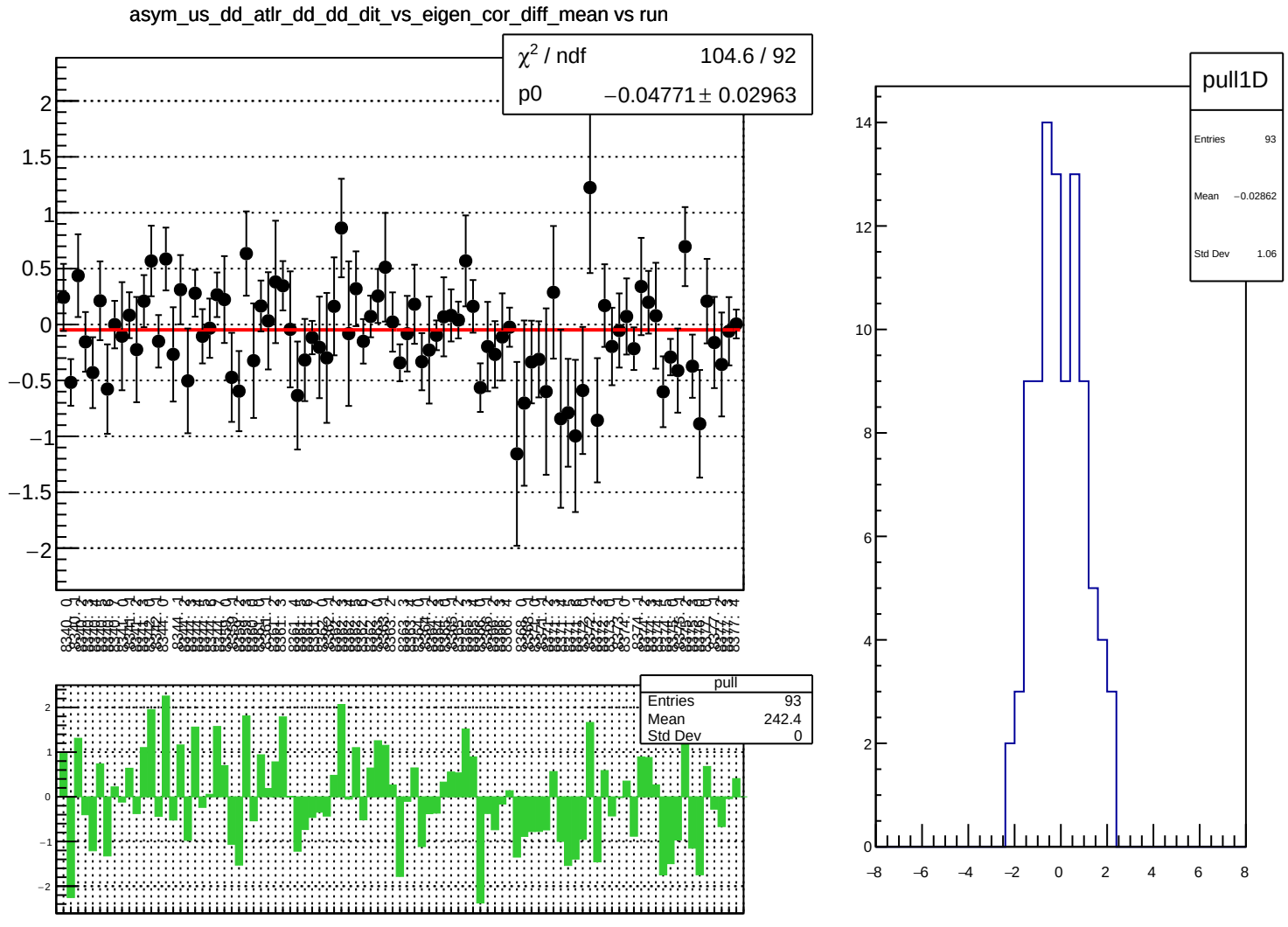

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.62 / 92
p0 3.353e−14 ± 7.61e−14
pull
Entries 93
Mean 136
Std Dev 0

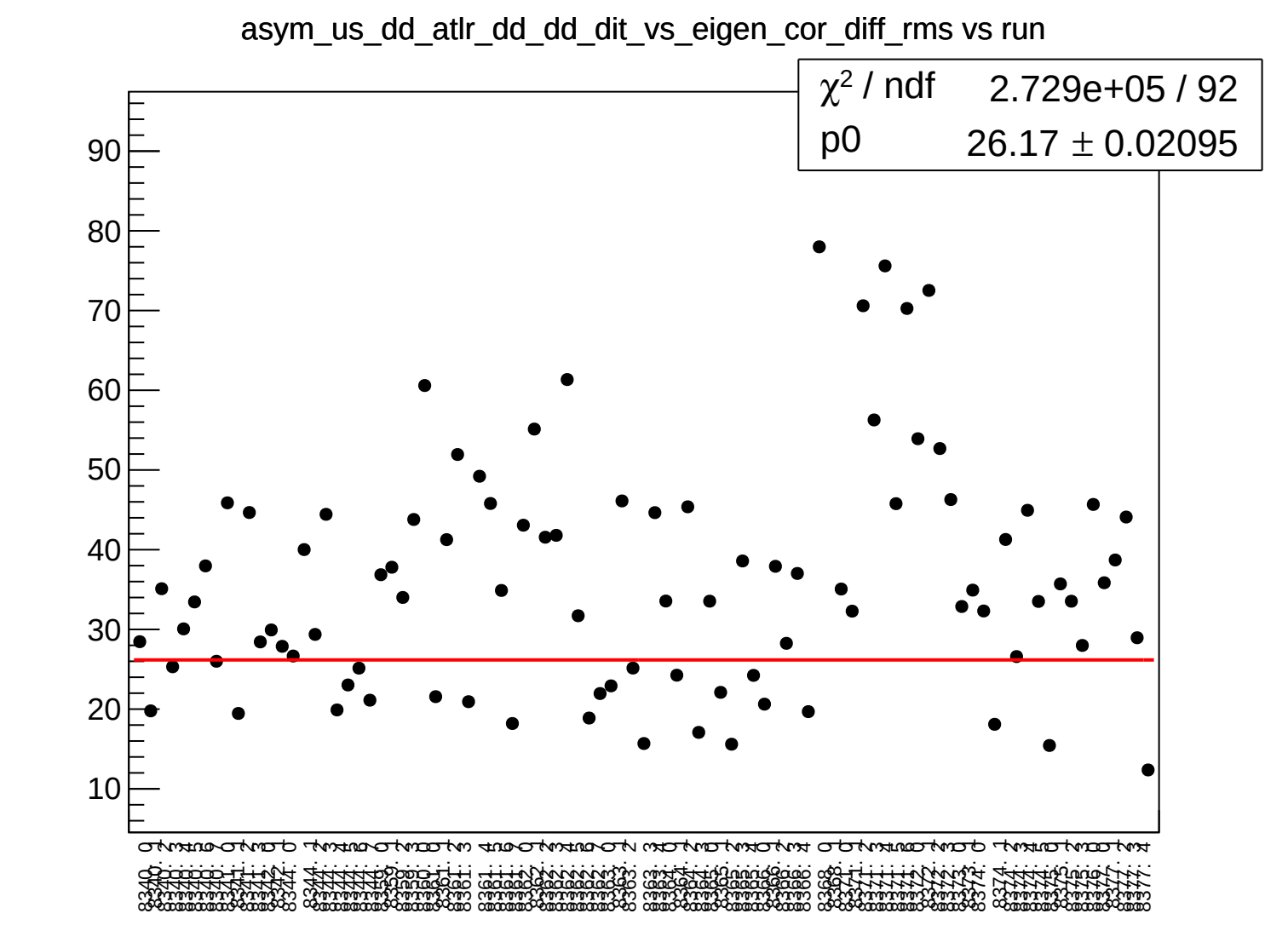

pull1D
Entries 93
Mean 0.05108
Std Dev 0.9693

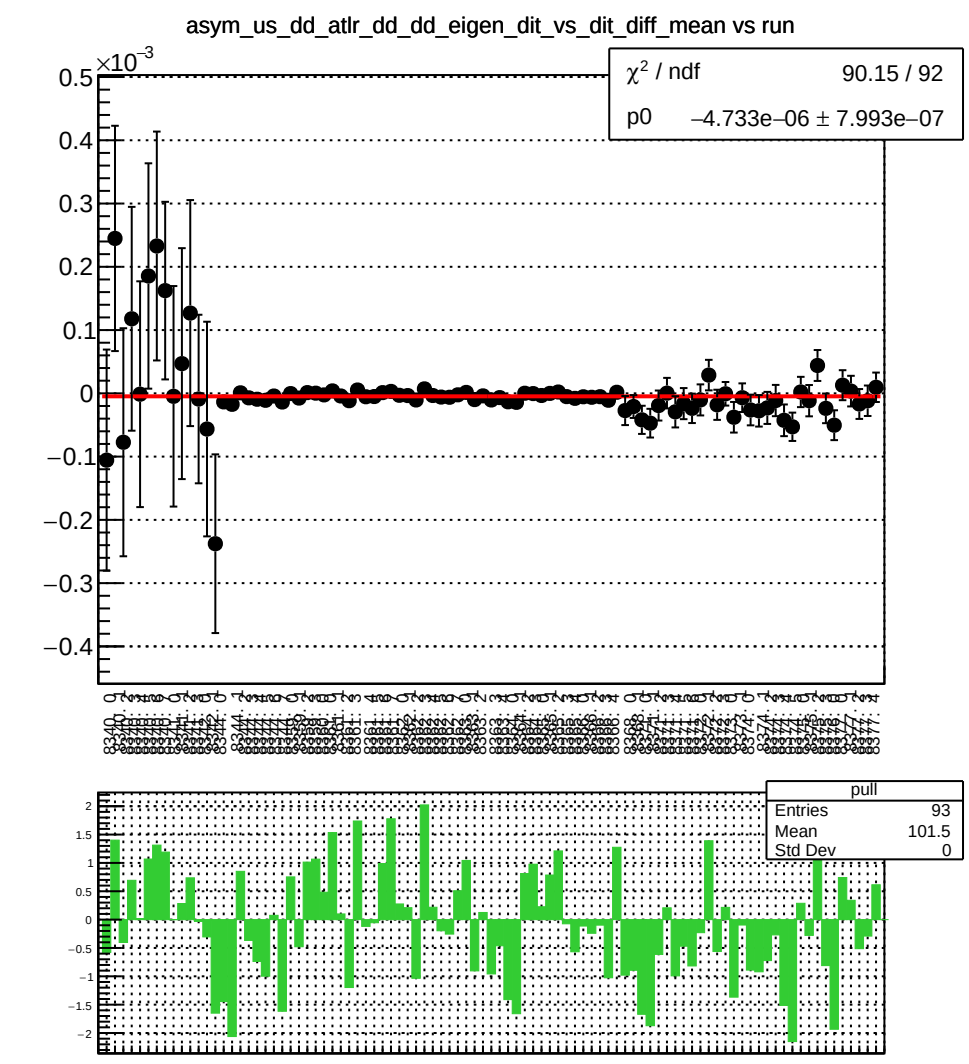

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 92
p0 4.743e−11 ± 5.381e−14
1
0.8
0.6
0.4
0.2
0

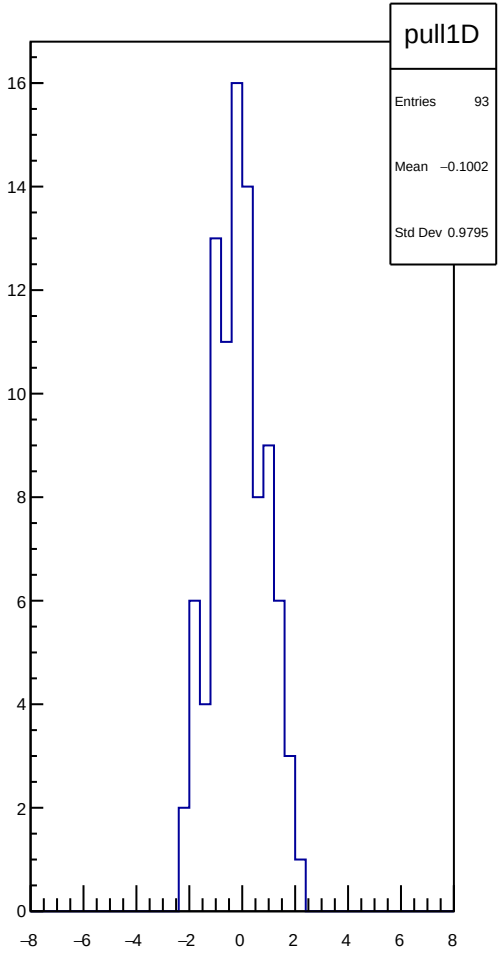

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 92
p0 −0.04771 ± 0.02963
pull
Entries 93
Mean 242.4
Std Dev 0
pull1D
Entries 93
Mean −0.02862
Std Dev 1.06

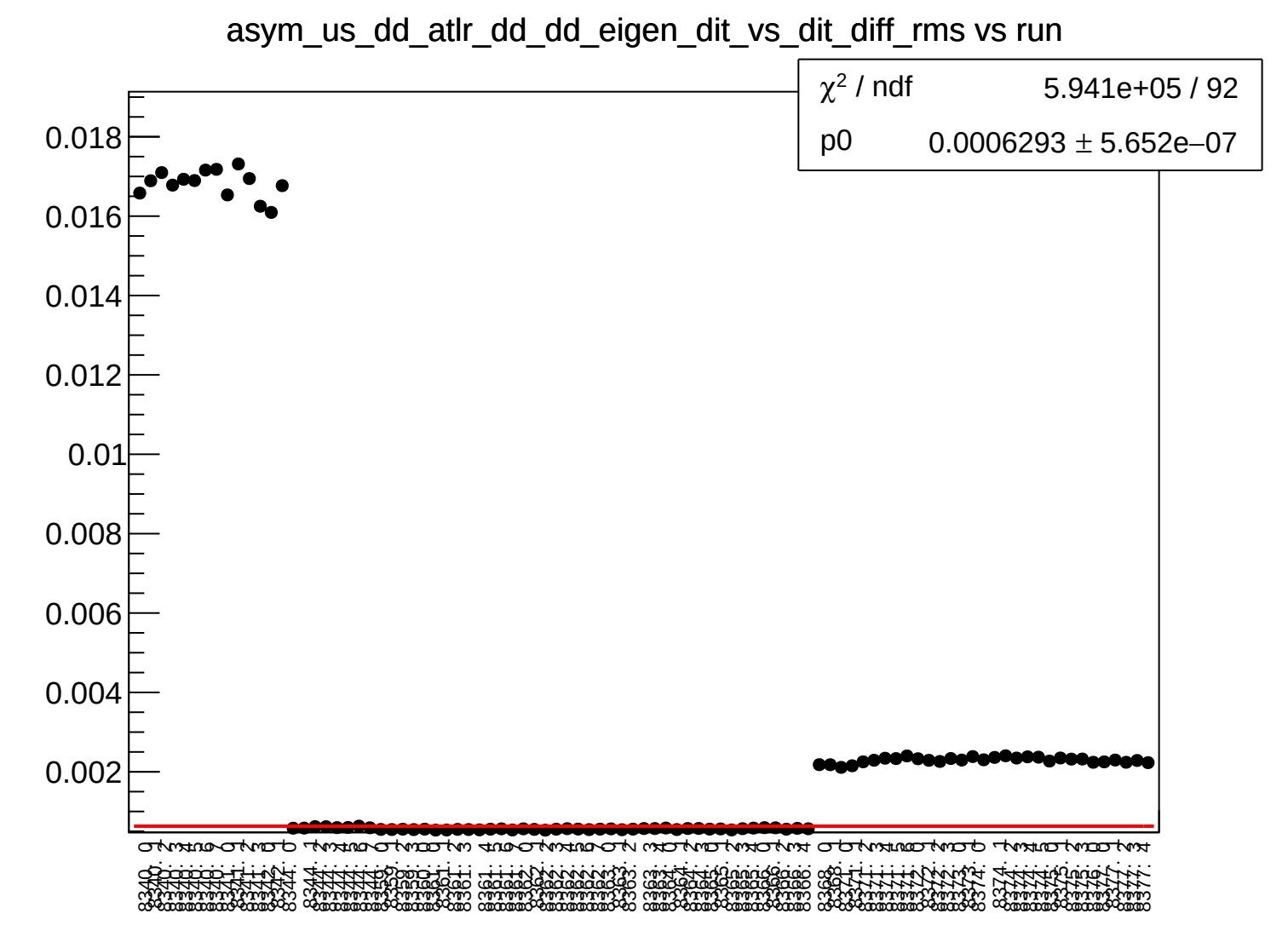

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 92
p0 26.17 ± 0.02095
90
80
70
60
50
40
30
20
10

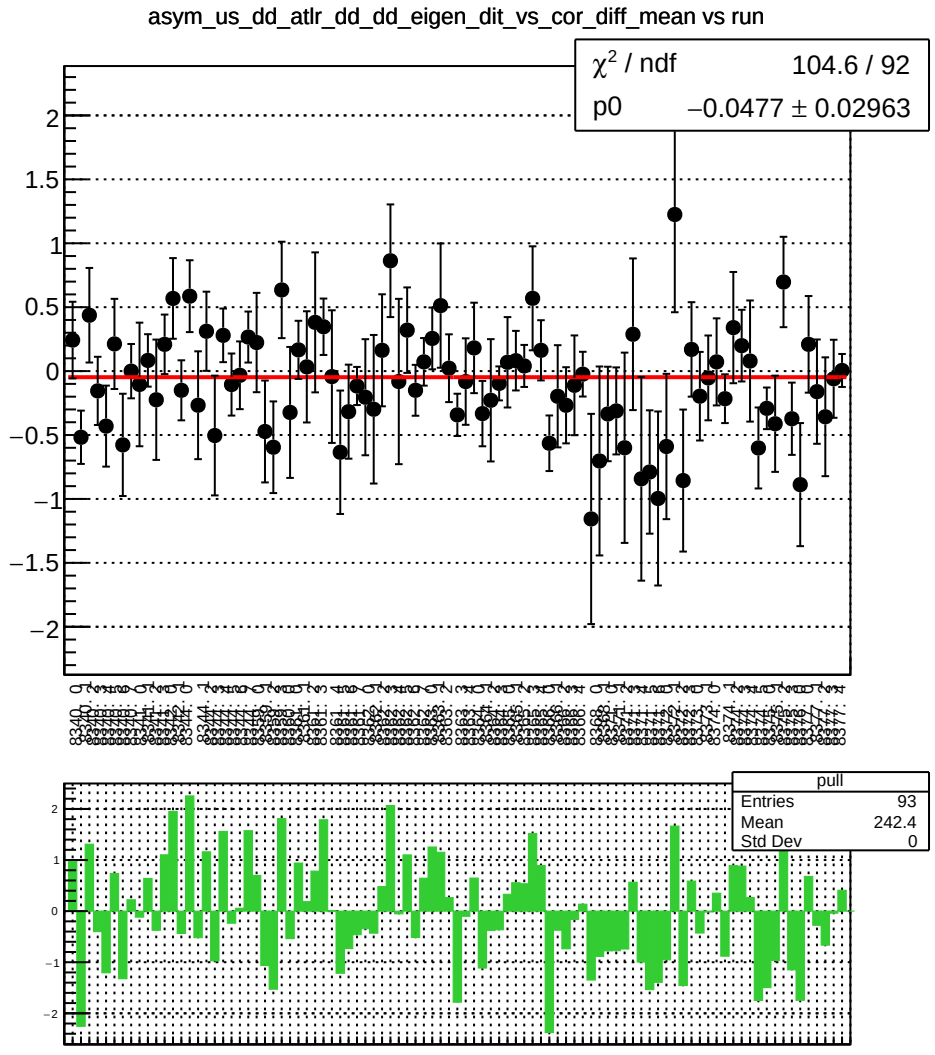

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 92
p0 −0.04771 ± 0.02963
pull
Entries 93
Mean 242.4
Std Dev 0
pull1D
Entries 93
Mean −0.02862
Std Dev 1.06

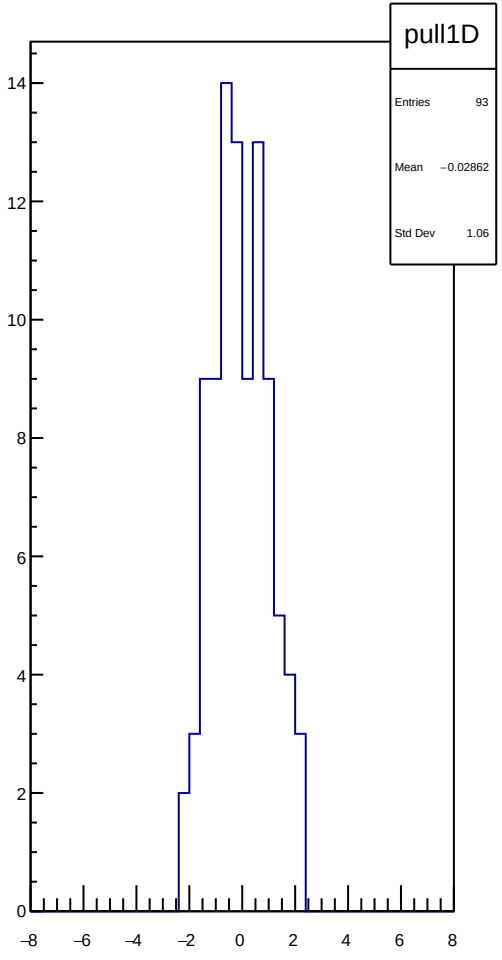

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 92
p0 26.17 ± 0.02095
90
80
70
60
50
40
30
20
10

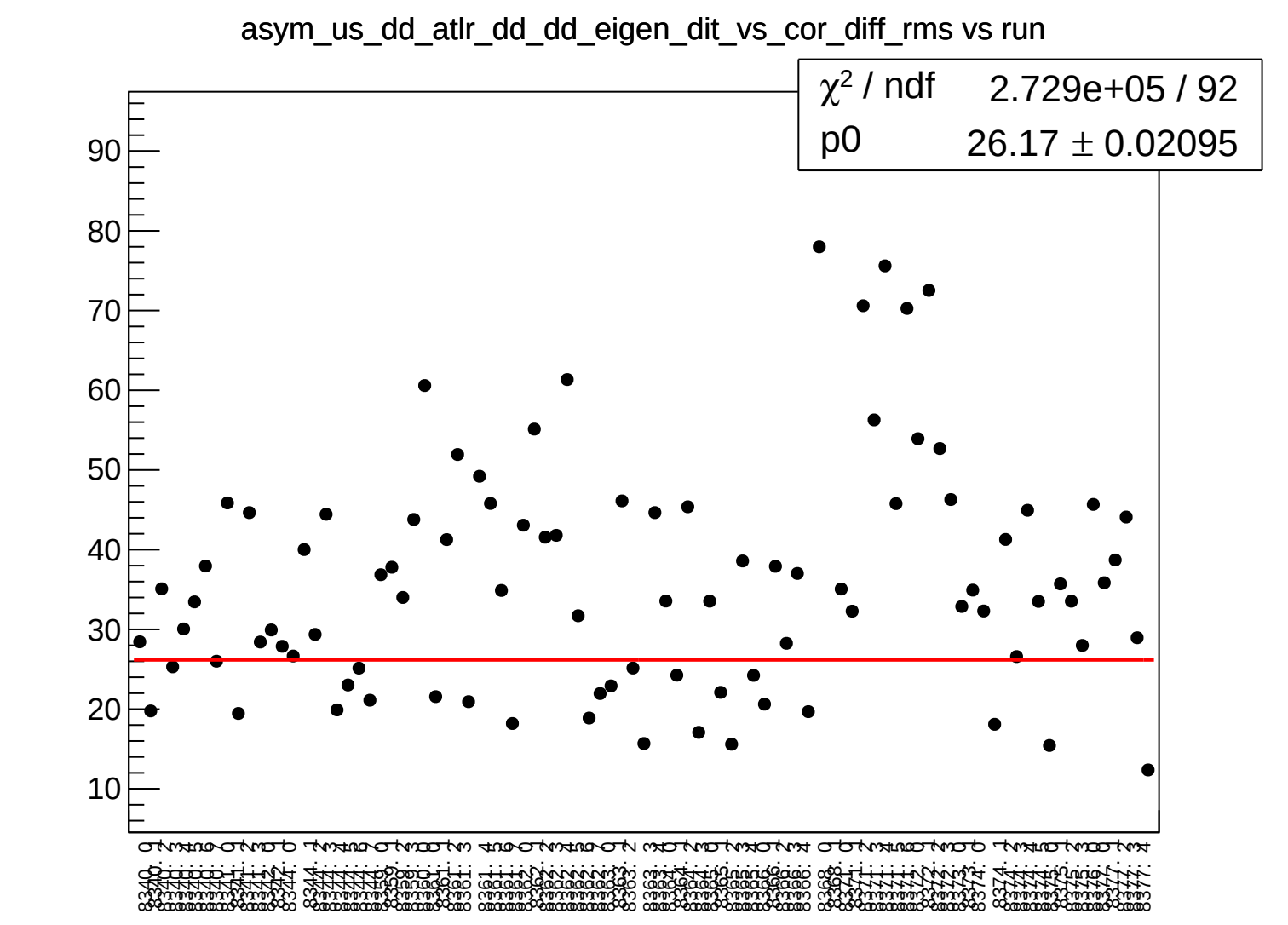

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.15 / 92
p0 −4.733e−06 ± 7.993e−07
pull
Entries 93
Mean 101.5
Std Dev 0

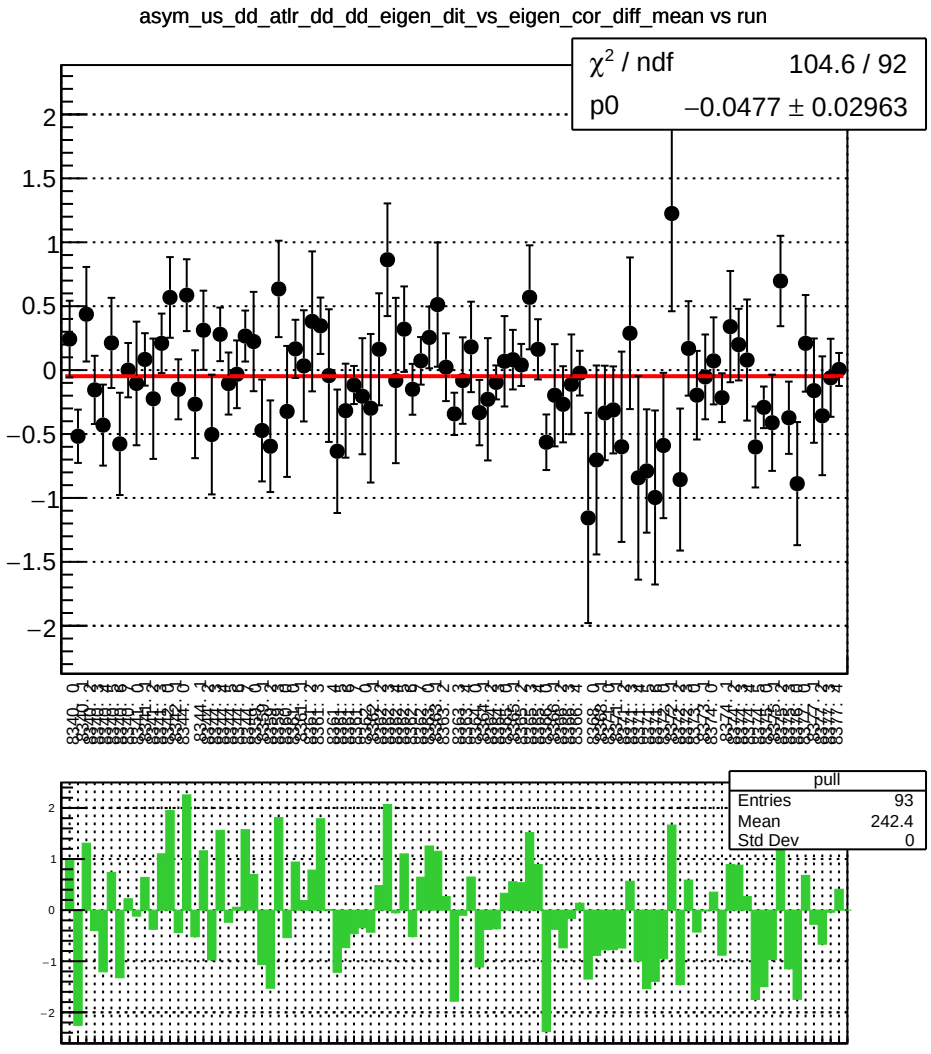

pull1D
Entries 93
Mean −0.1002
Std Dev 0.9795

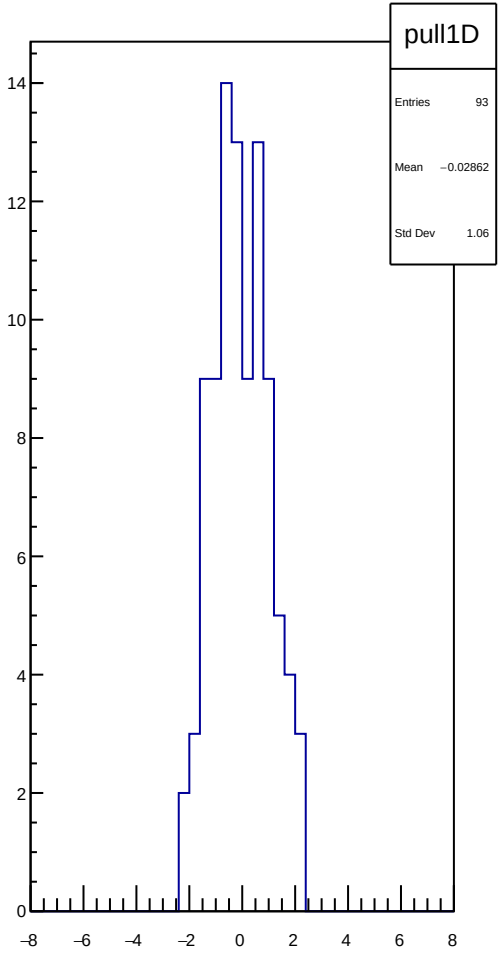

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.941e+05 / 92
p0 0.0006293 ± 5.652e−07
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

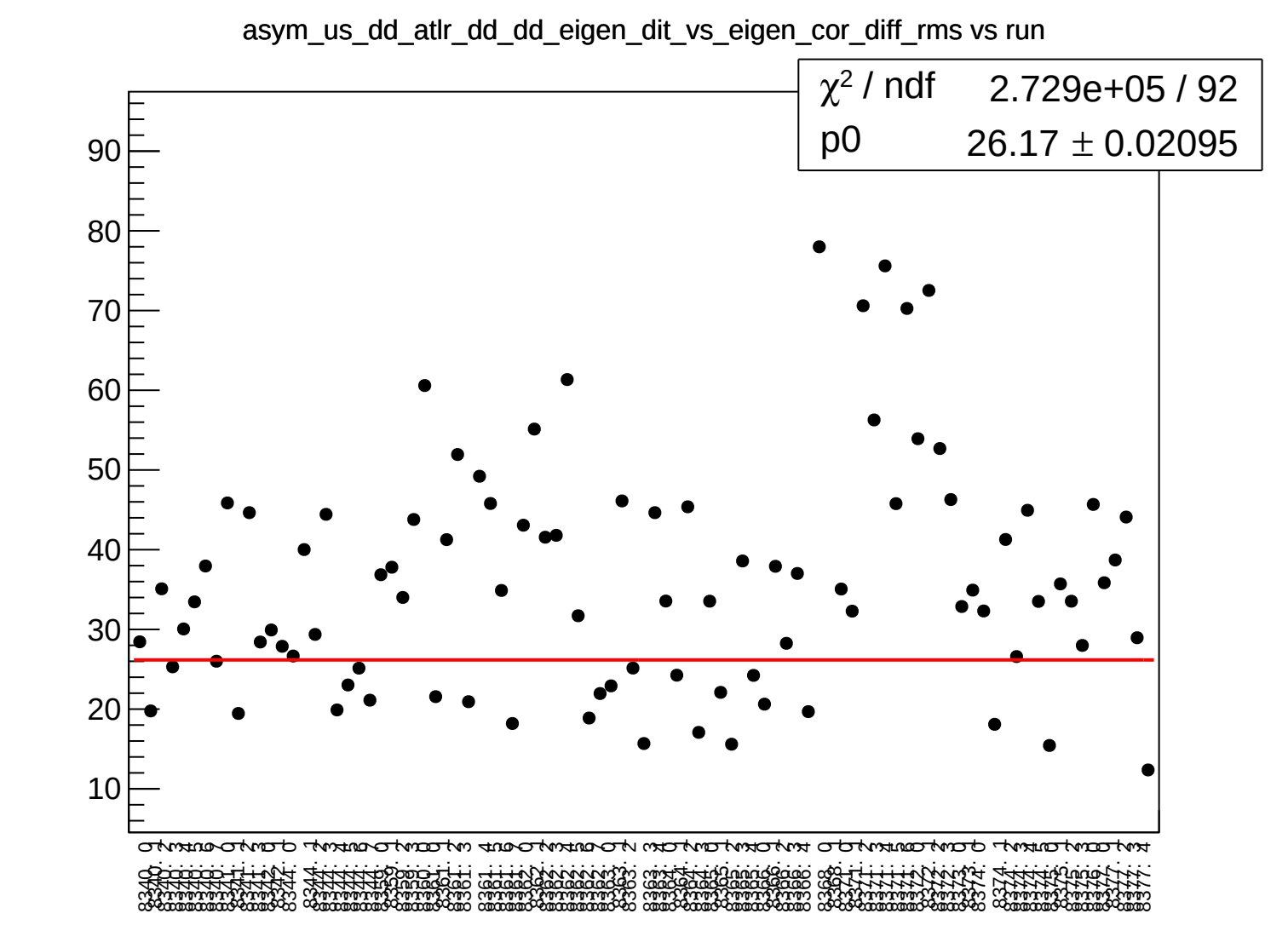

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 92
p0 −0.0477 ± 0.02963
pull
Entries 93
Mean 242.4
Std Dev 0

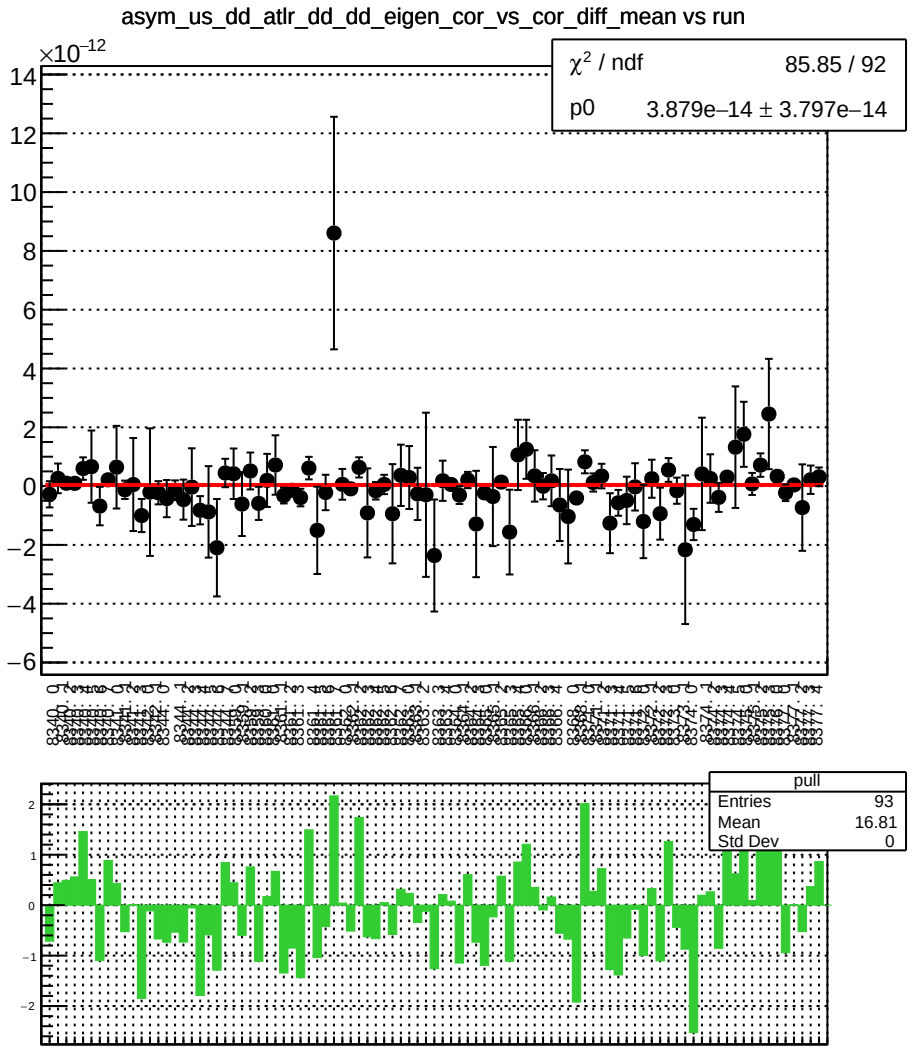

pull1D
Entries 93
Mean −0.02862
Std Dev 1.06

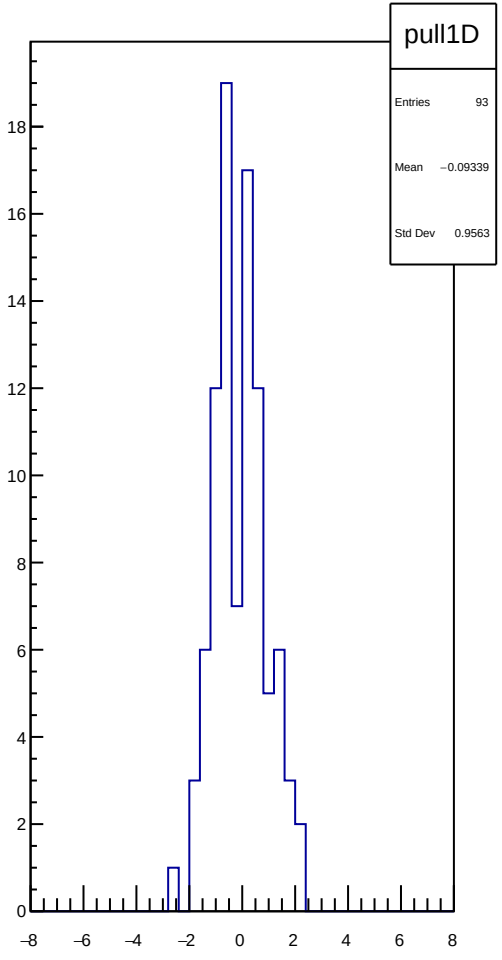

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 92
p0 26.17 ± 0.02095
90
80
70
60
50
40
30
20
10

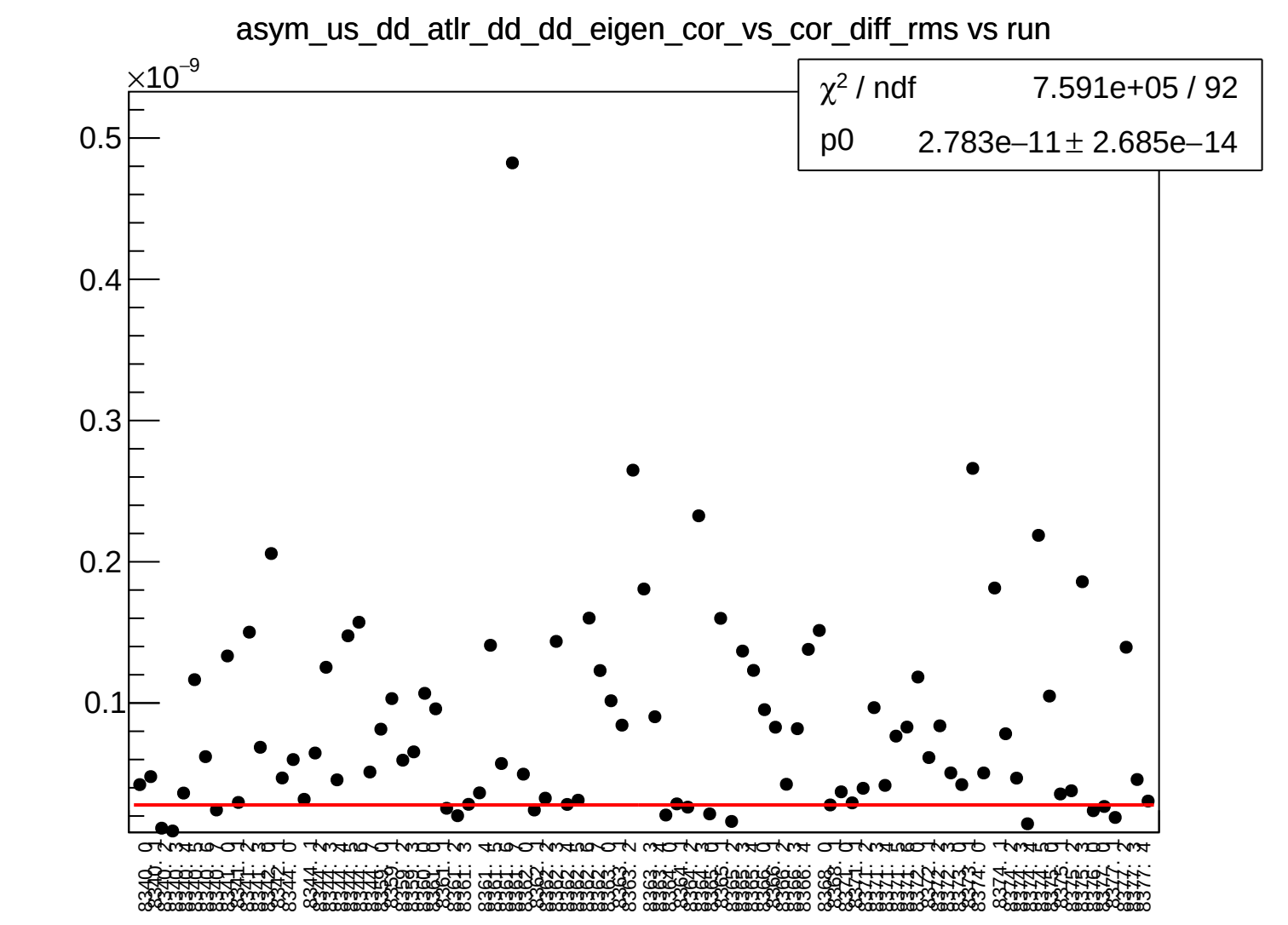

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 92
p0 −0.0477 ± 0.02963
pull
Entries 93
Mean 242.4
Std Dev 0

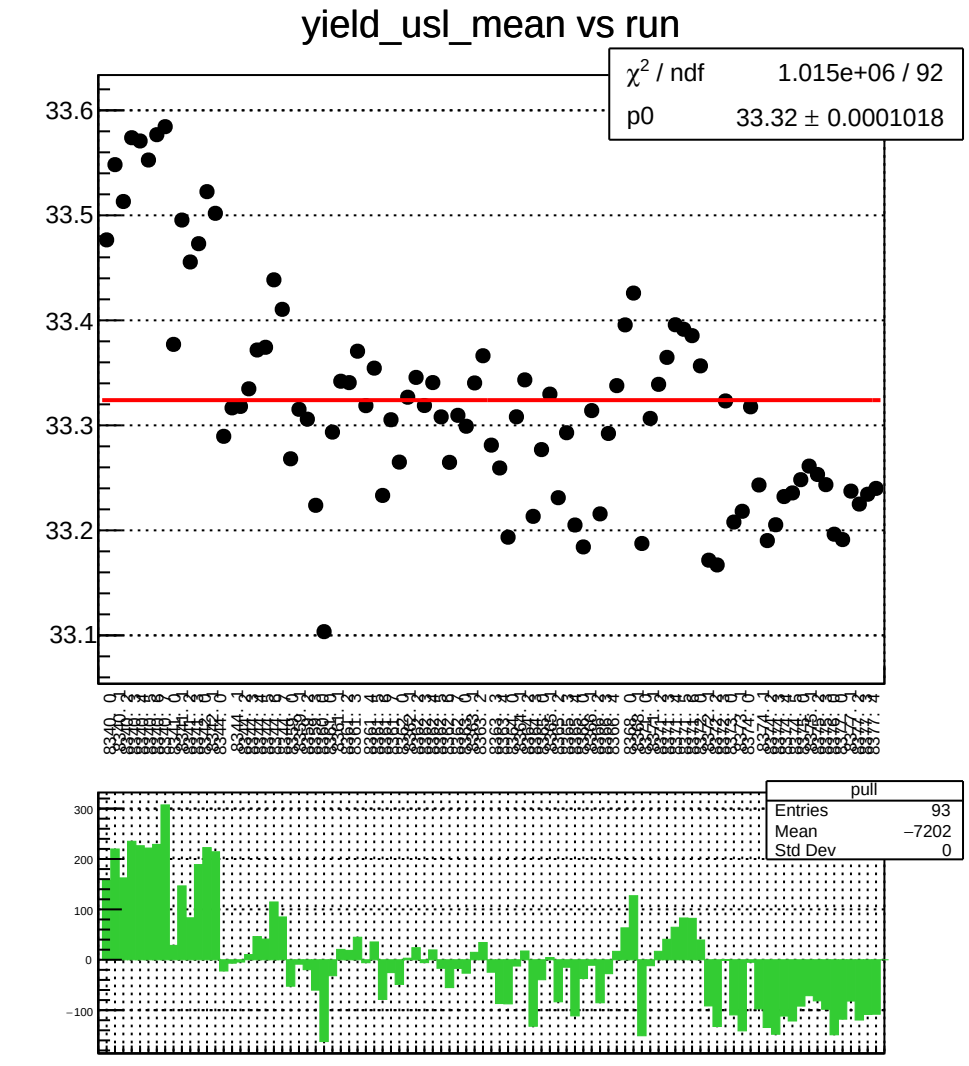

pull1D
Entries 93
Mean −0.02862
Std Dev 1.06

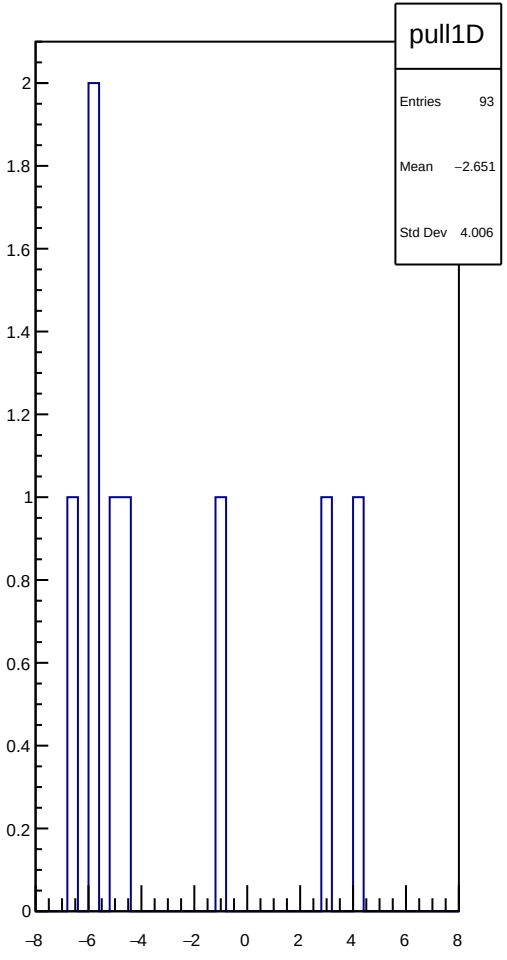

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.729e+05 / 92
p0 26.17 ± 0.02095
90
80
70
60
50
40
30
20
10

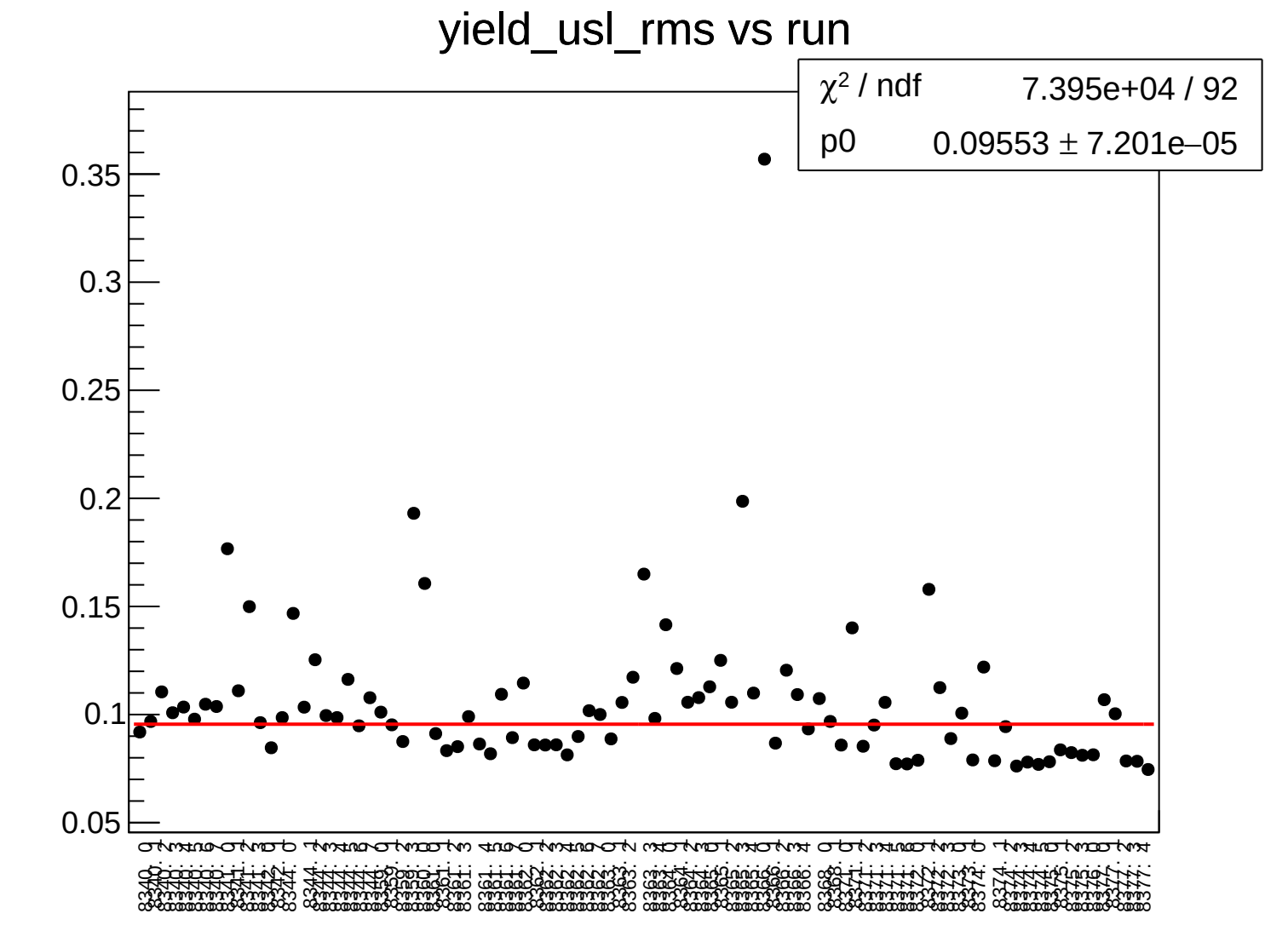

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.85 / 92
p0 3.879e−14 ± 3.797e−14
pull
Entries 93
Mean 16.81
Std Dev 0

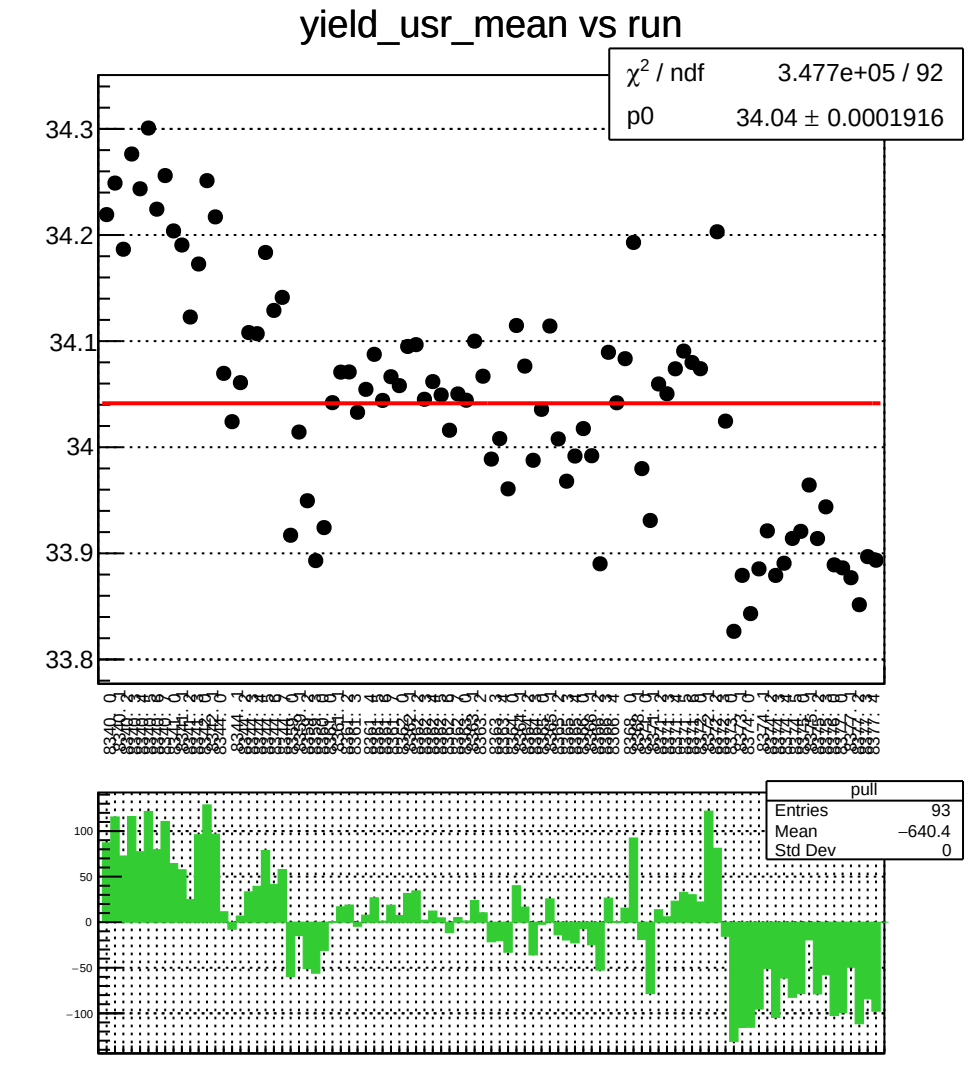

pull1D
Entries 93
Mean −0.09339
Std Dev 0.9563

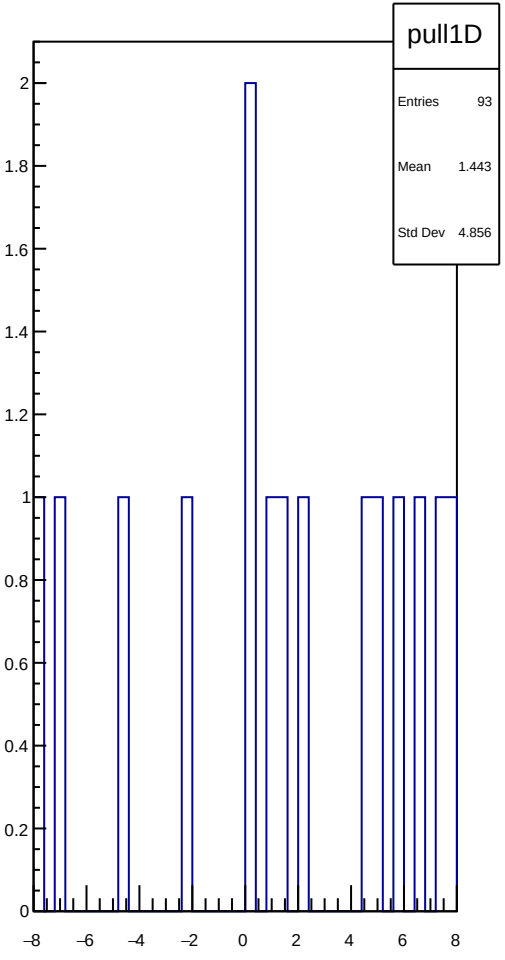

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.591e+05 / 92
p0 2.783e−11 ± 2.685e−14
0.5
0.4
0.3
0.2
0.1

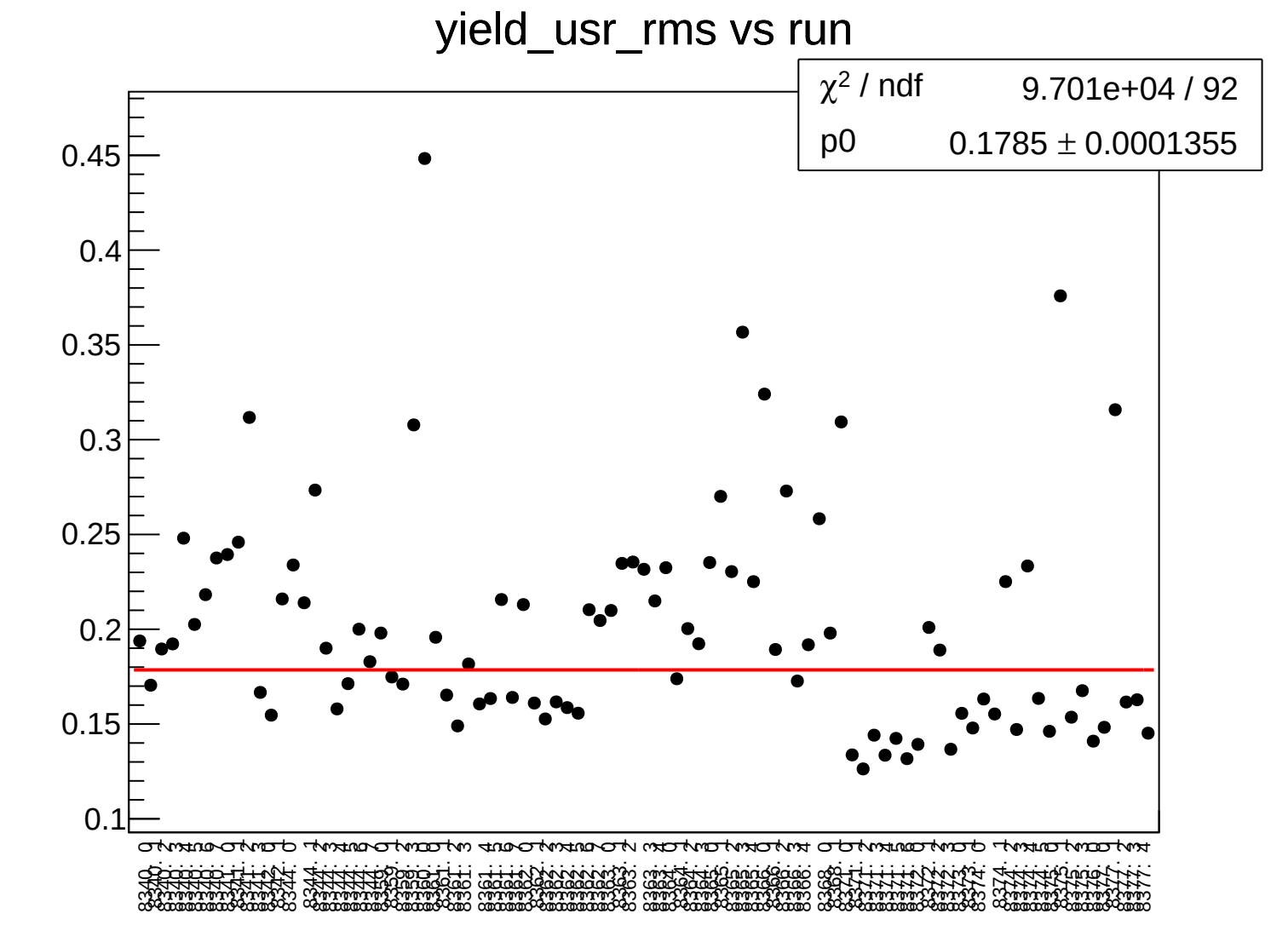

yield_usl_mean vs run
χ² / ndf 1.015e+06 / 92
p0 33.32 ± 0.0001018
33.6
33.5
33.4
33.3
33.2
33.1
pull
Entries 93
Mean −7202
Std Dev 0
300
200
100
0
−100

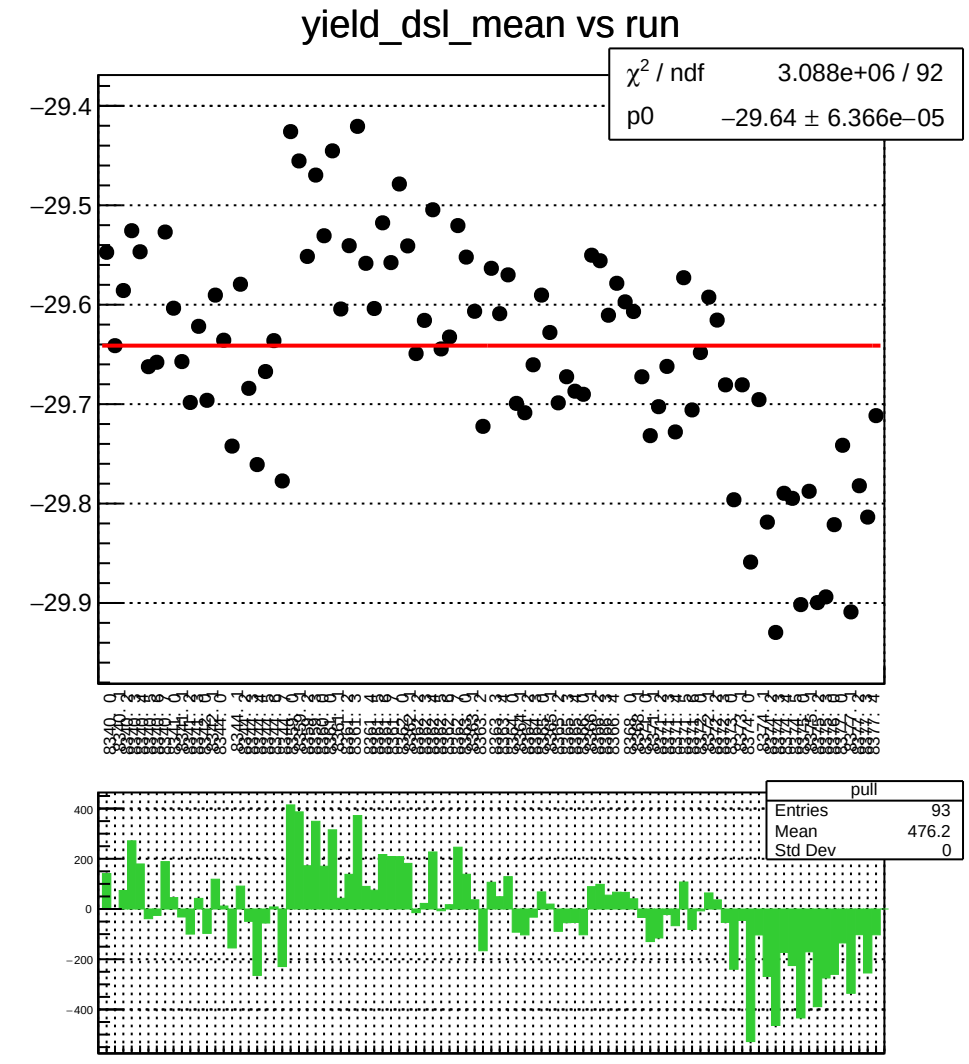

pull1D
Entries 93
Mean −2.651
Std Dev 4.006
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

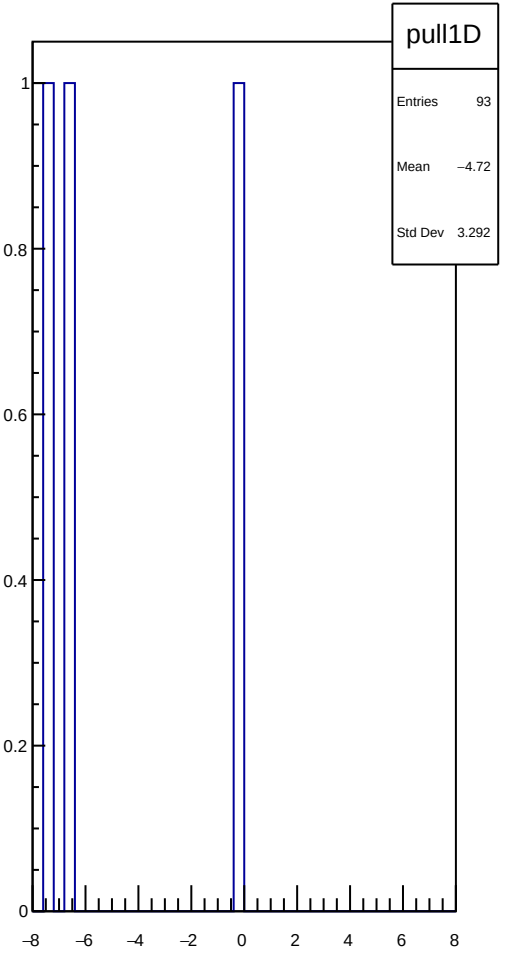

yield_usl_rms vs run
χ² / ndf 7.395e+04 / 92
p0 0.09553 ± 7.201e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

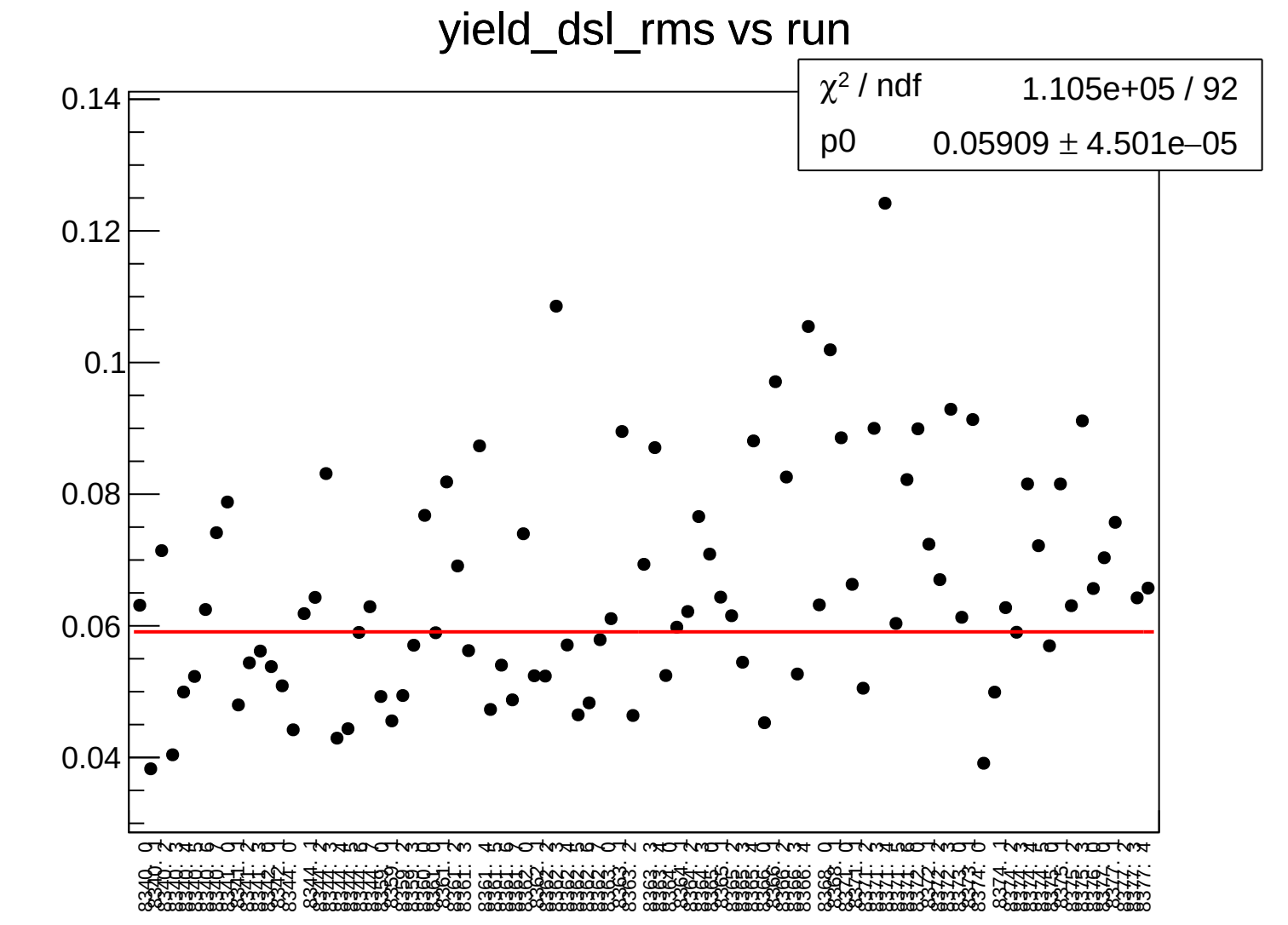

yield_usr_mean vs run
χ² / ndf 3.477e+05 / 92
p0 34.04 ± 0.0001916
34.3
34.2
34.1
34
33.9
33.8
pull
Entries 93
Mean −640.4
Std Dev 0
100
50
0
−50
−100

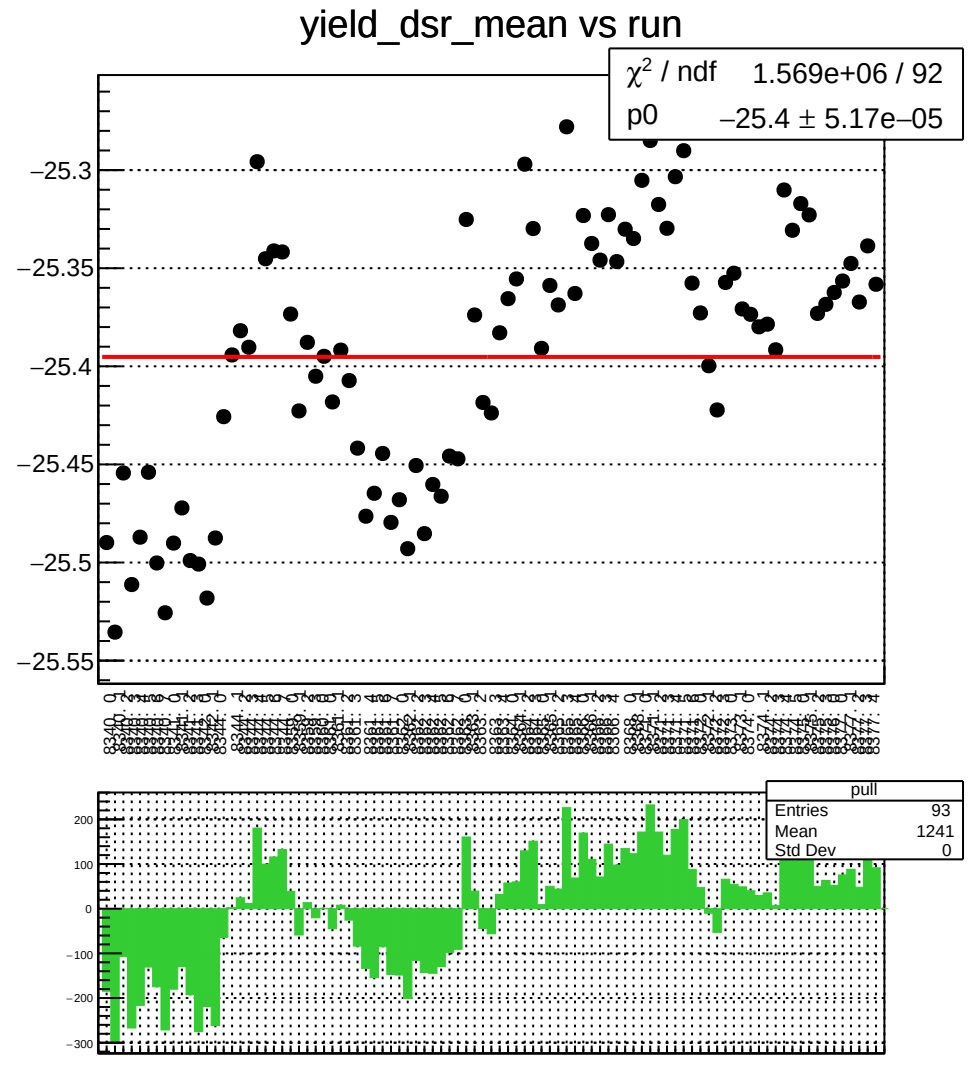

pull1D
Entries 93
Mean 1.443
Std Dev 4.856
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

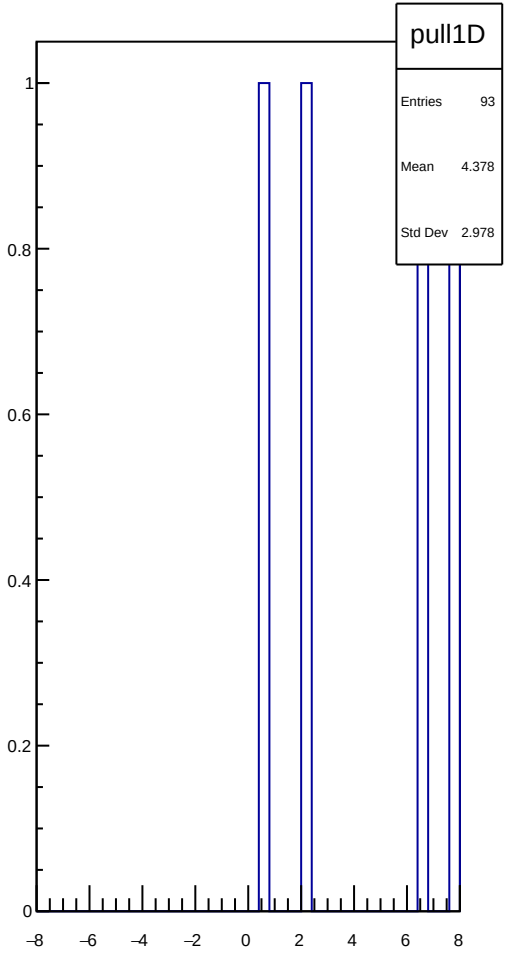

yield_usr_rms vs run
χ2 / ndf 9.701e+04 / 92
p0 0.1785 ± 0.0001355
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

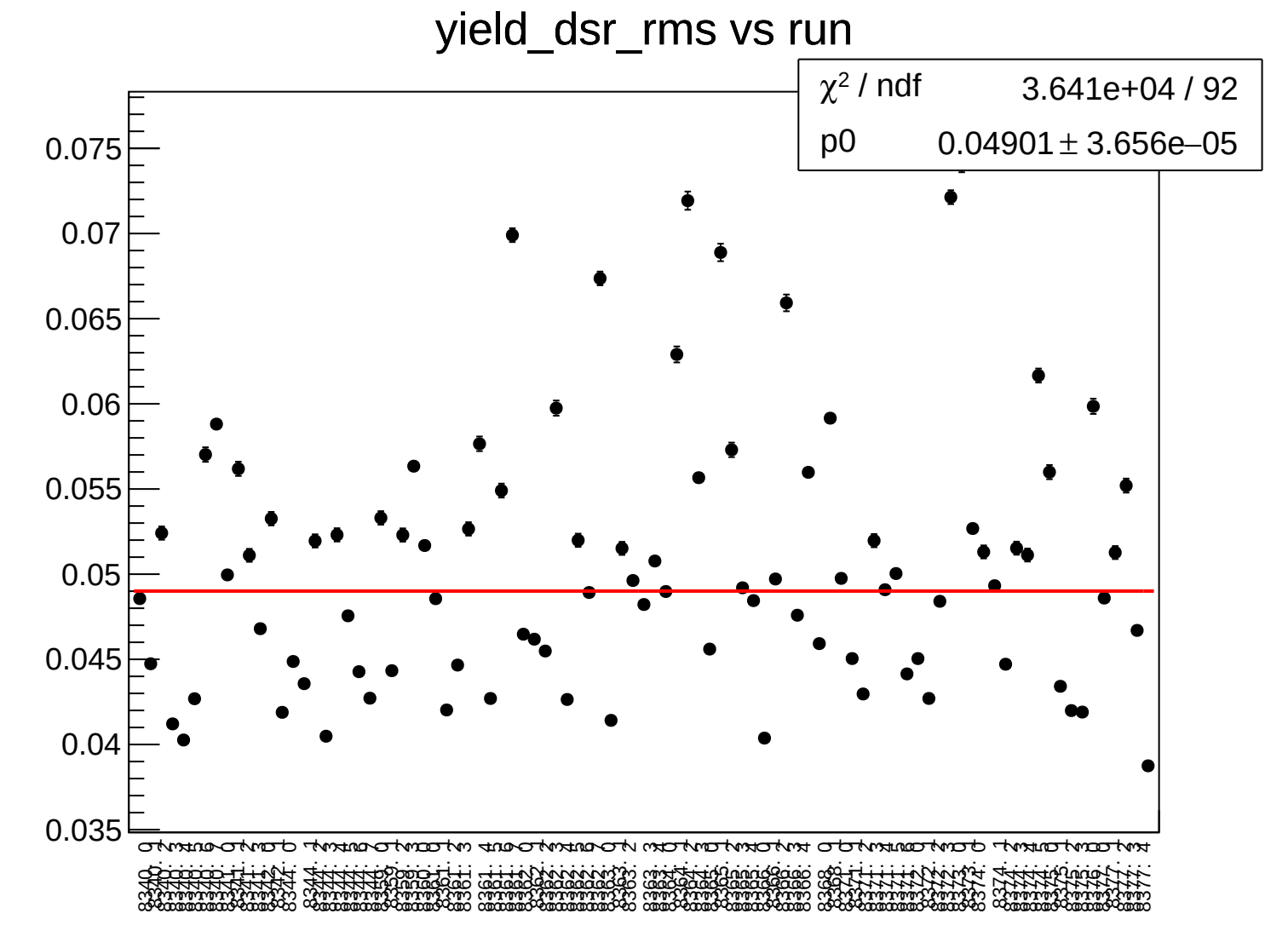

yield_dsl_mean vs run
χ² / ndf 3.088e+06 / 92
p0 −29.64 ± 6.366e−05
−29.4
−29.5
−29.6
−29.7
−29.8
−29.9
pull
Entries 93
Mean 476.2
Std Dev 0
400
200
0
−200
−400

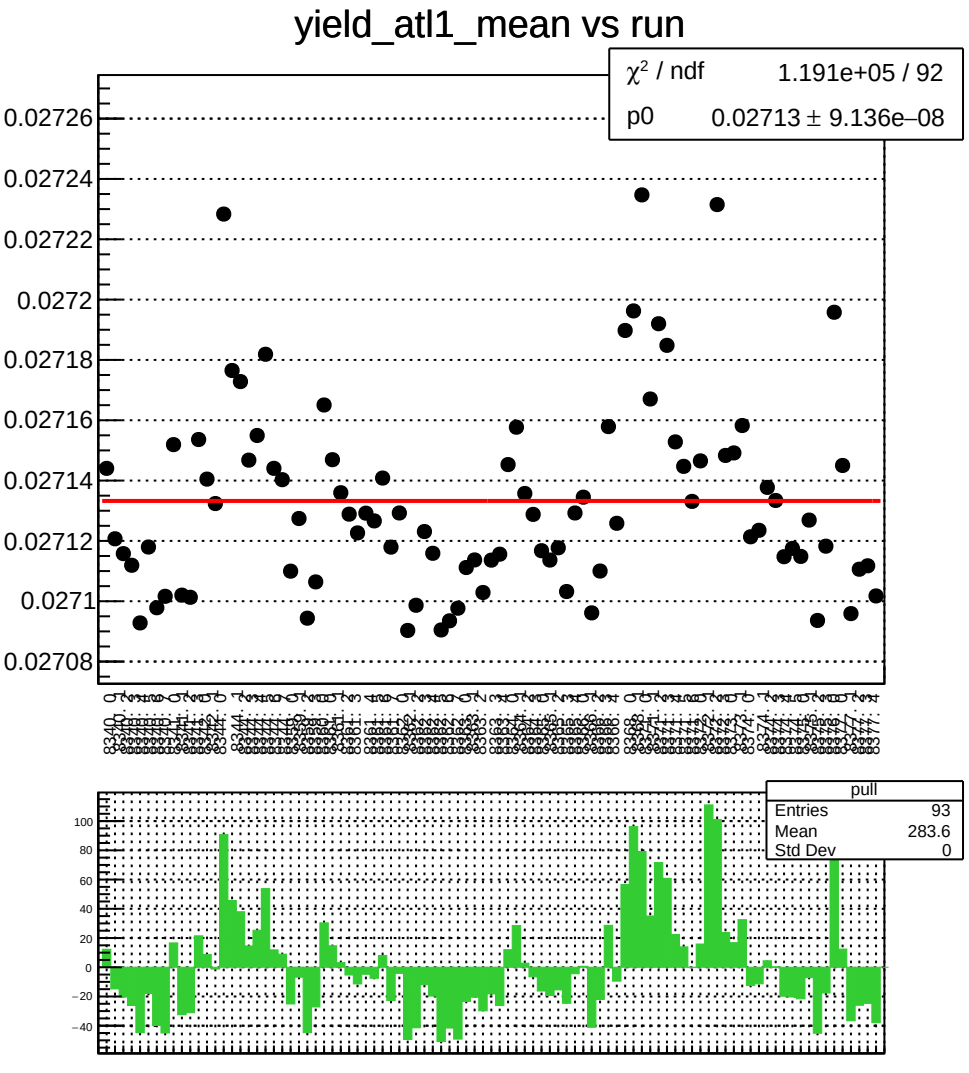

pull1D
Entries 93
Mean −4.72
Std Dev 3.292
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

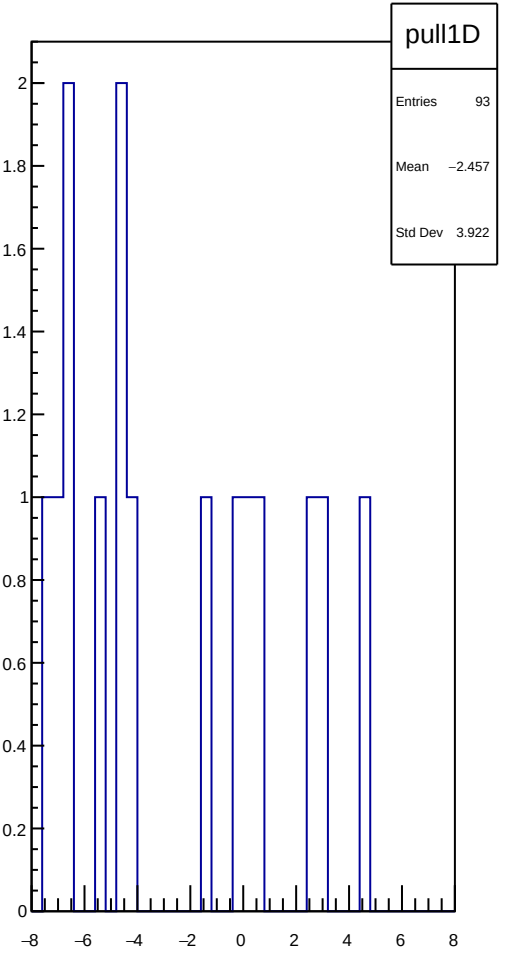

yield_dsl_rms vs run
χ² / ndf 1.105e+05 / 92
p0 0.05909 ± 4.501e−05
0.14
0.12
0.1
0.08
0.06
0.04

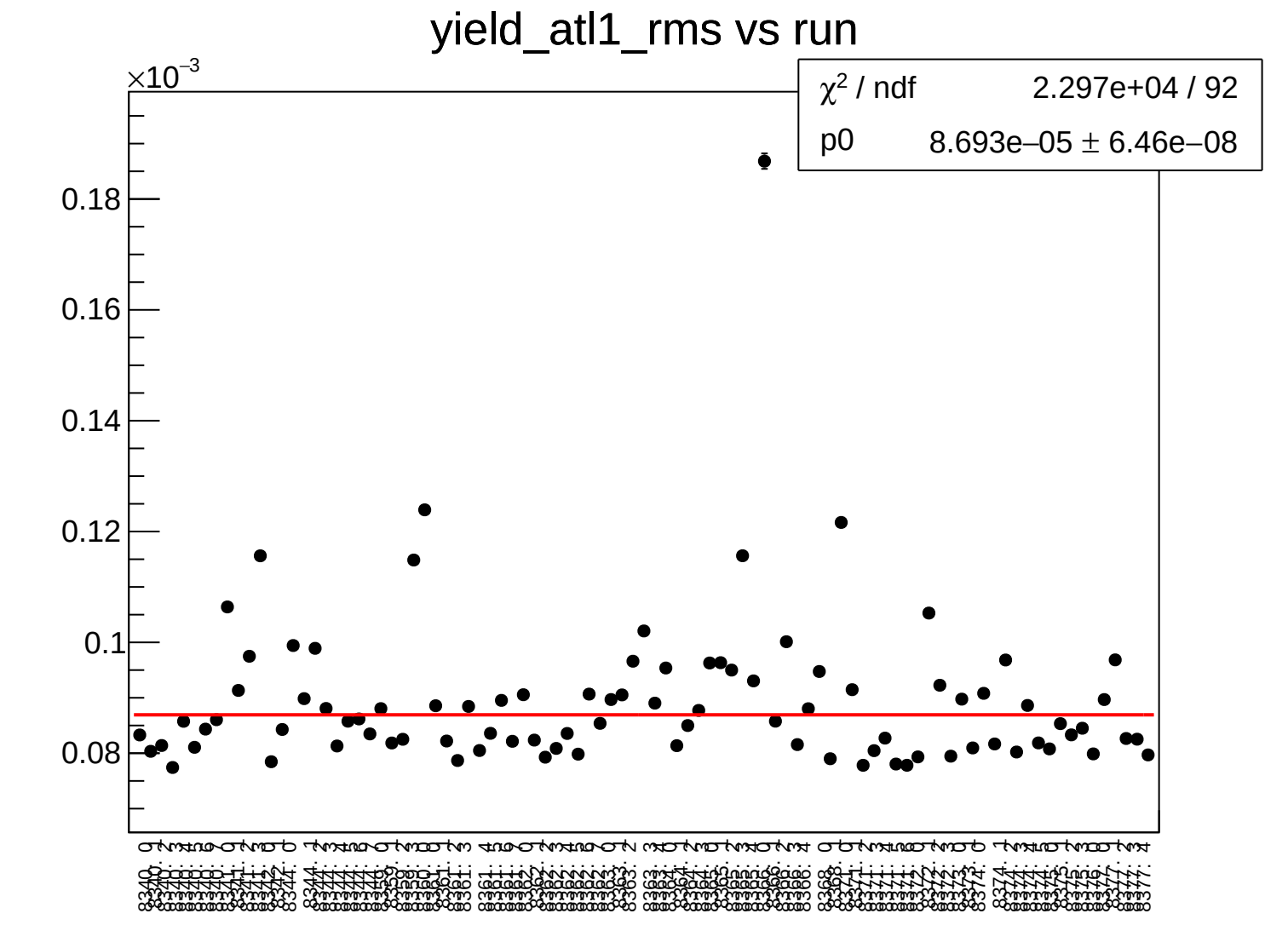

yield_dsr_mean vs run
χ² / ndf 1.569e+06 / 92
p0 −25.4 ± 5.17e−05
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 93
Mean 1241
Std Dev 0
200
100
0
−100
−200
−300

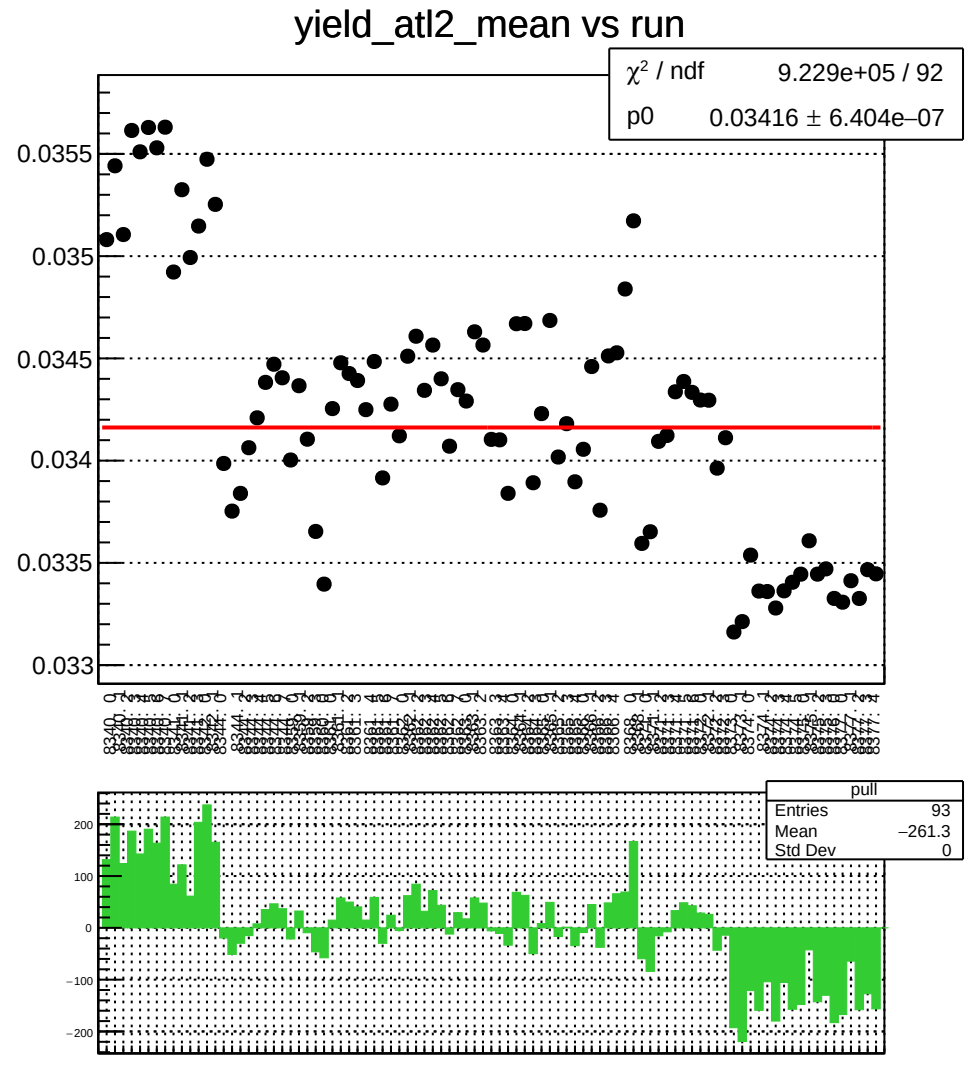

pull1D
Entries 93
Mean 4.378
Std Dev 2.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

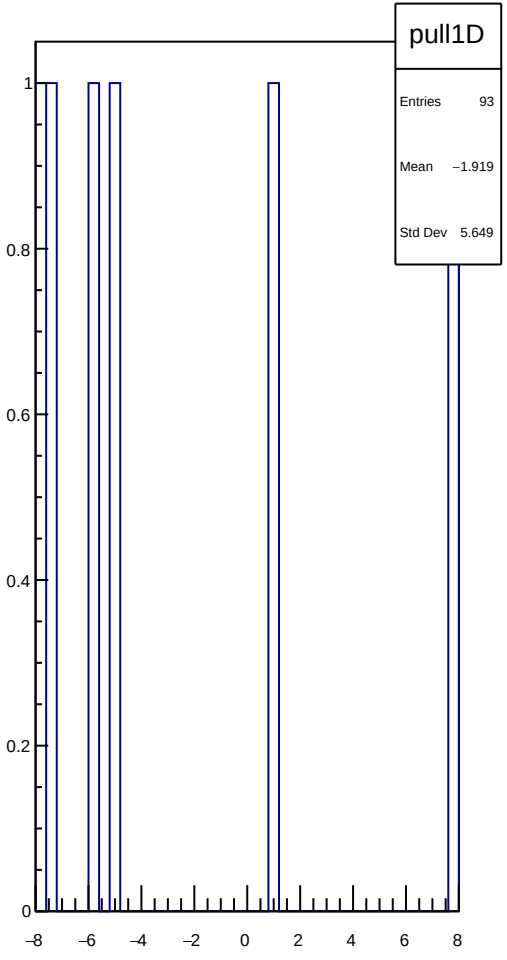

yield_dsr_rms vs run
χ² / ndf 3.641e+04 / 92
p0 0.04901 ± 3.656e–05
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

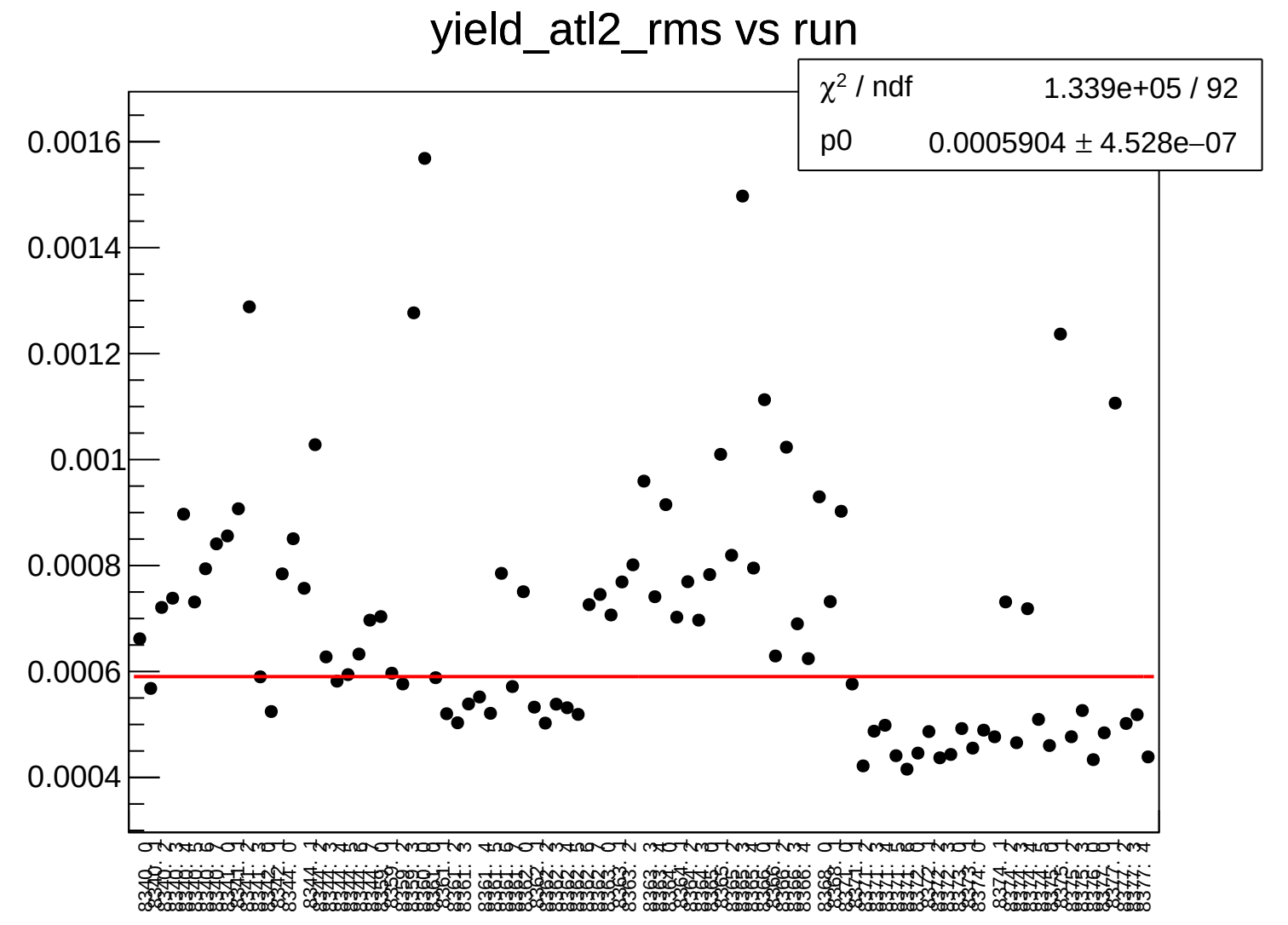

yield_atl1_mean vs run
χ² / ndf 1.191e+05 / 92
p0 0.02713 ± 9.136e−08
0.02726
0.02724
0.02722
0.0272
0.02718
0.02716
0.02714
0.02712
0.0271
0.02708
pull
Entries 93
Mean 283.6
Std Dev 0
100
80
60
40
20
0
−20
−40

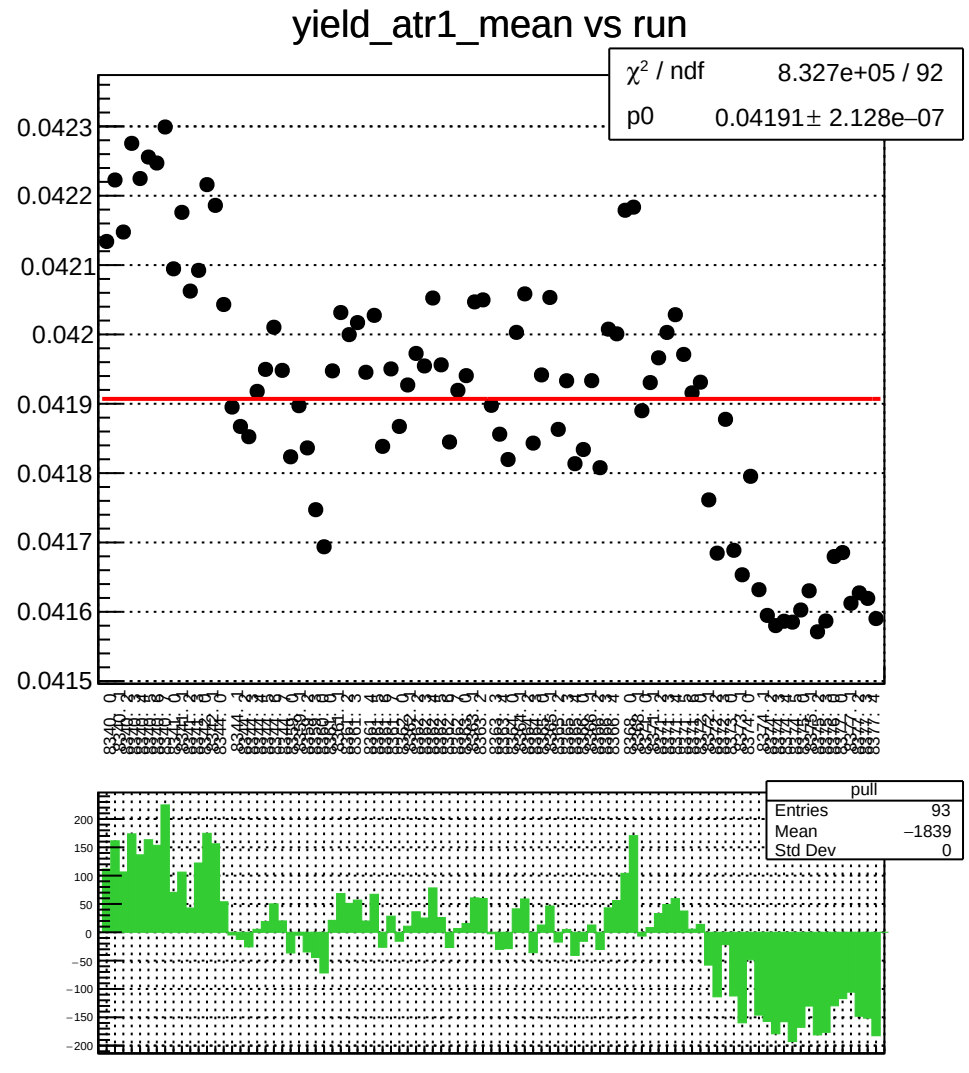

pull1D
Entries 93
Mean −2.457
Std Dev 3.922
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

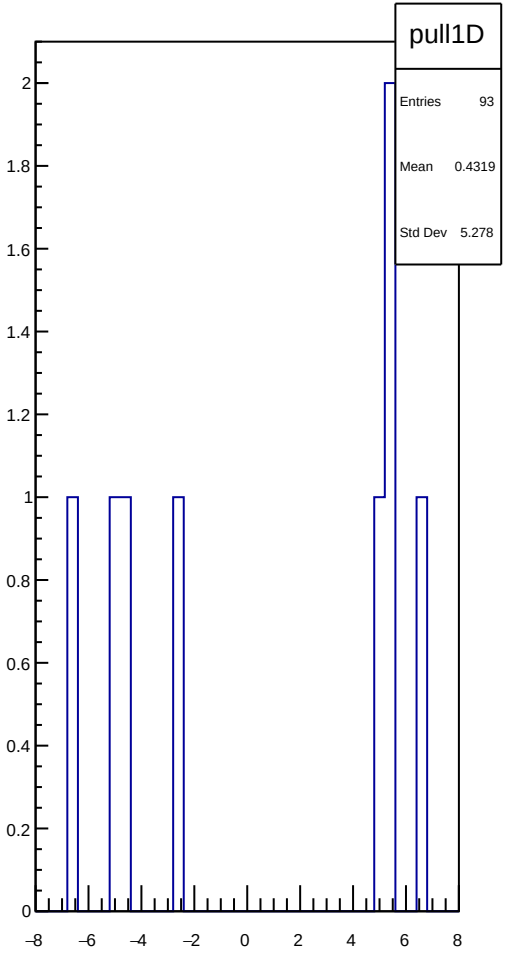

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.297e+04 / 92
p0 8.693e−05 ± 6.46e−08
0.18
0.16
0.14
0.12
0.1
0.08

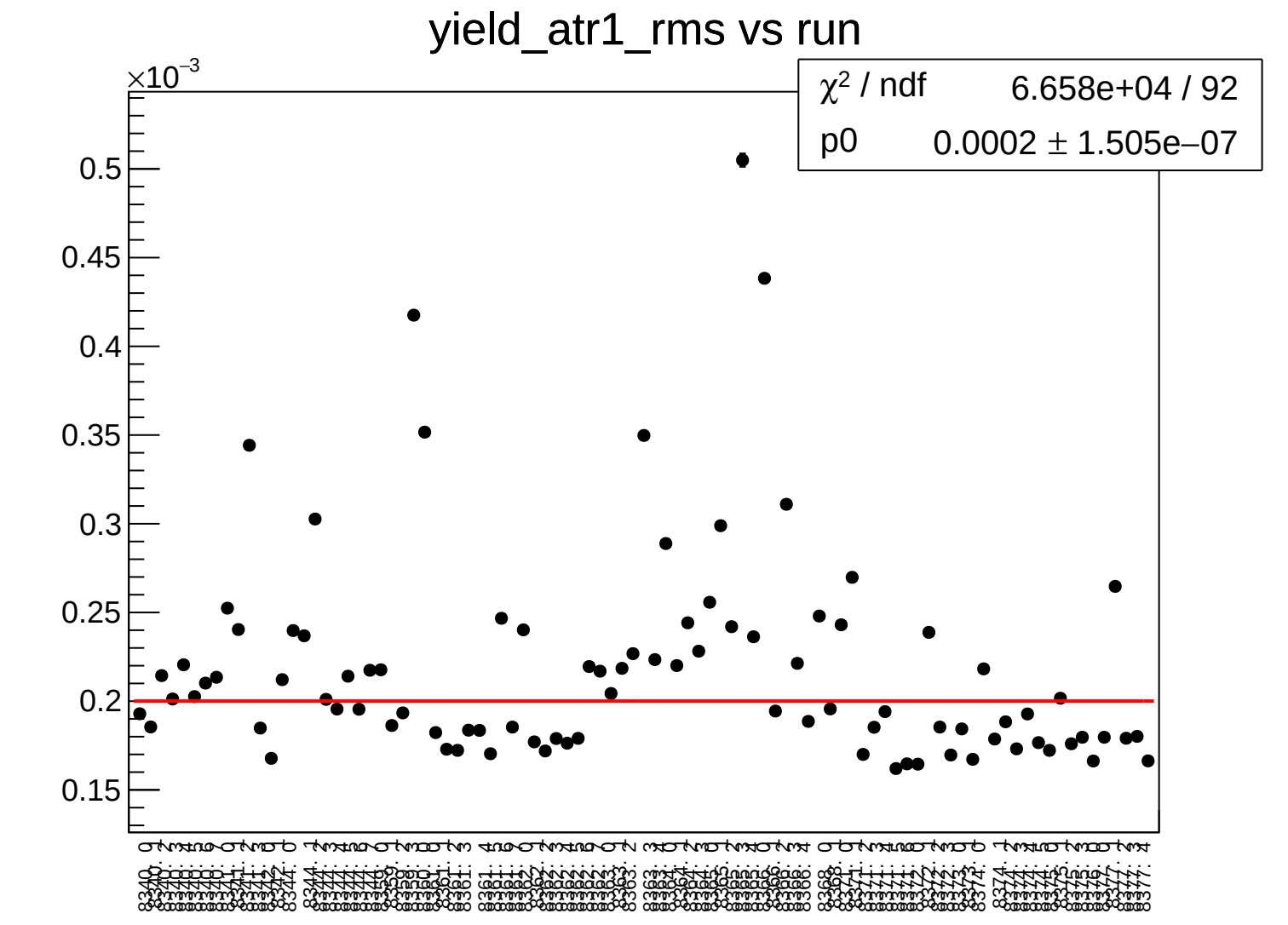

yield_atl2_mean vs run
χ² / ndf 9.229e+05 / 92
p0 0.03416 ± 6.404e−07
0.0355
0.035
0.0345
0.034
0.0335
0.033
pull
Entries 93
Mean −261.3
Std Dev 0
200
100
0
−100
−200

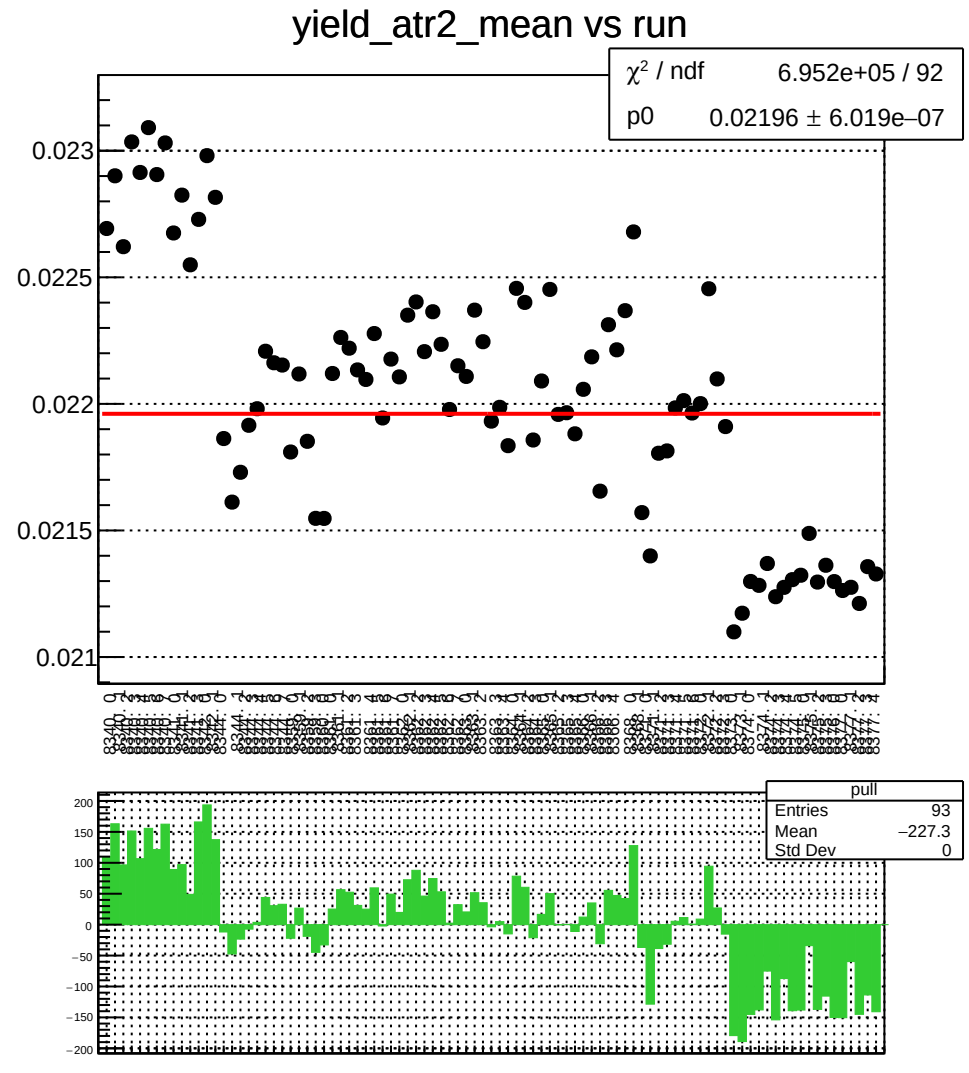

pull1D
Entries 93
Mean −1.919
Std Dev 5.649
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

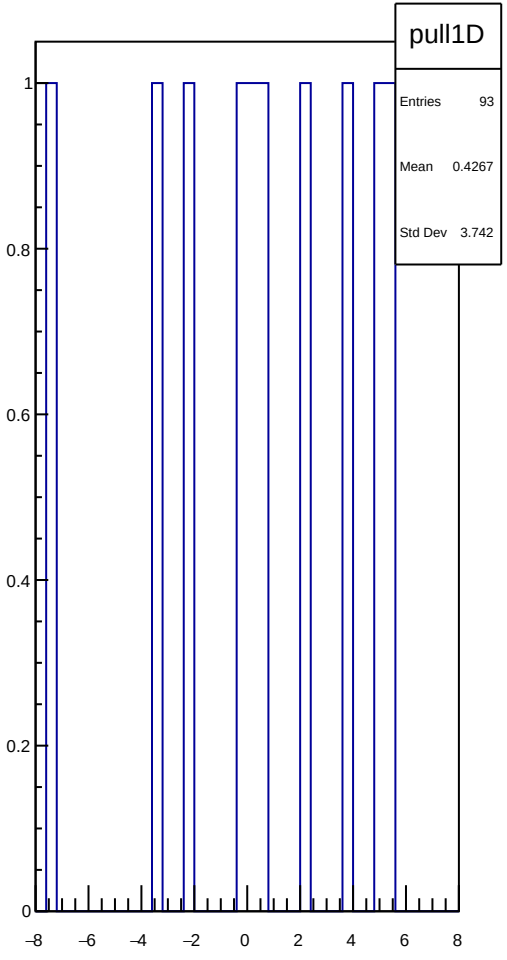

yield_atl2_rms vs run
χ² / ndf 1.339e+05 / 92
p0 0.0005904 ± 4.528e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

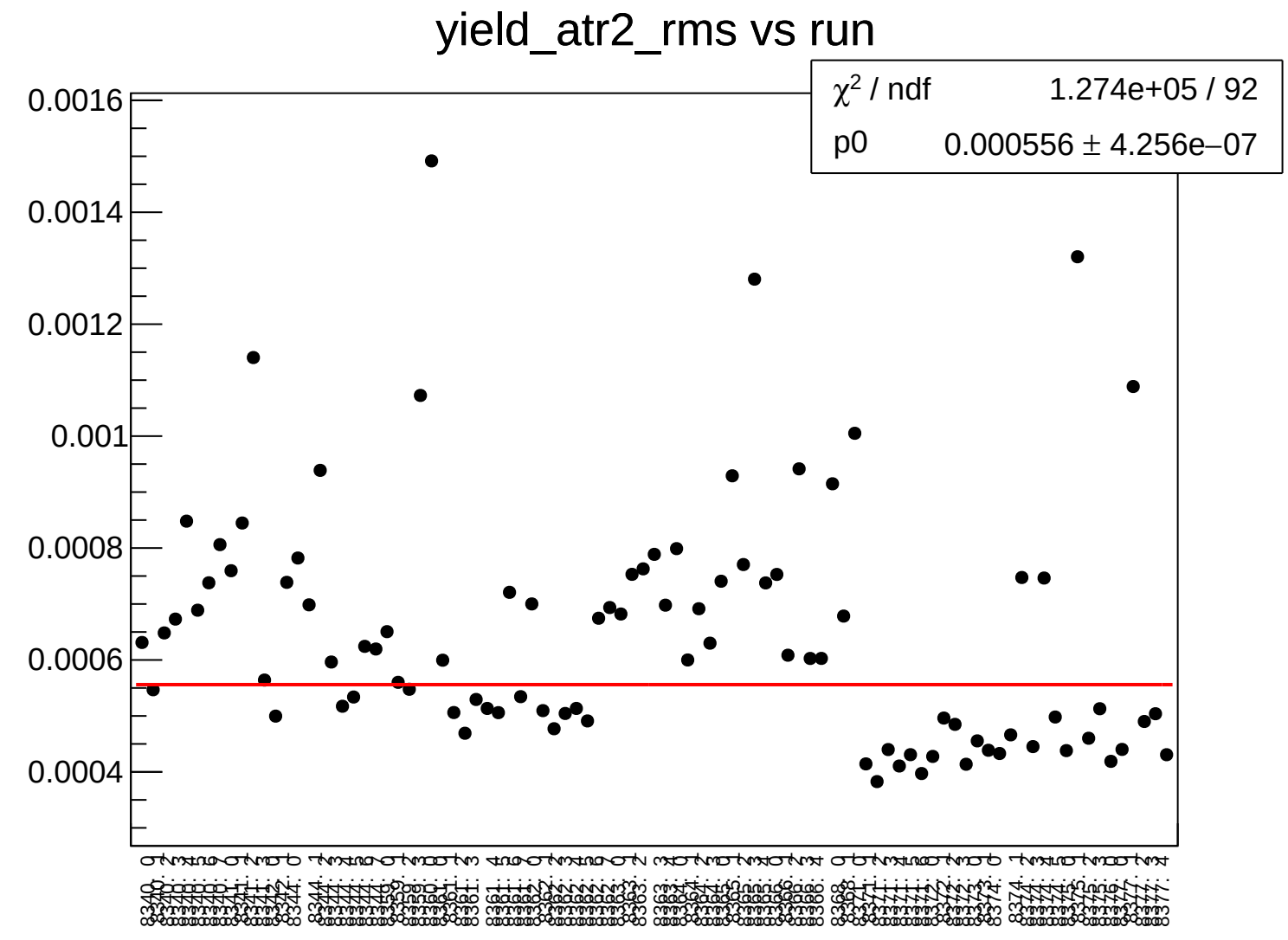

yield_atr1_mean vs run
χ² / ndf 8.327e+05 / 92
p0 0.04191± 2.128e−07
0.0423
0.0422
0.0421
0.042
0.0419
0.0418
0.0417
0.0416
0.0415
pull
Entries 93
Mean −1839
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

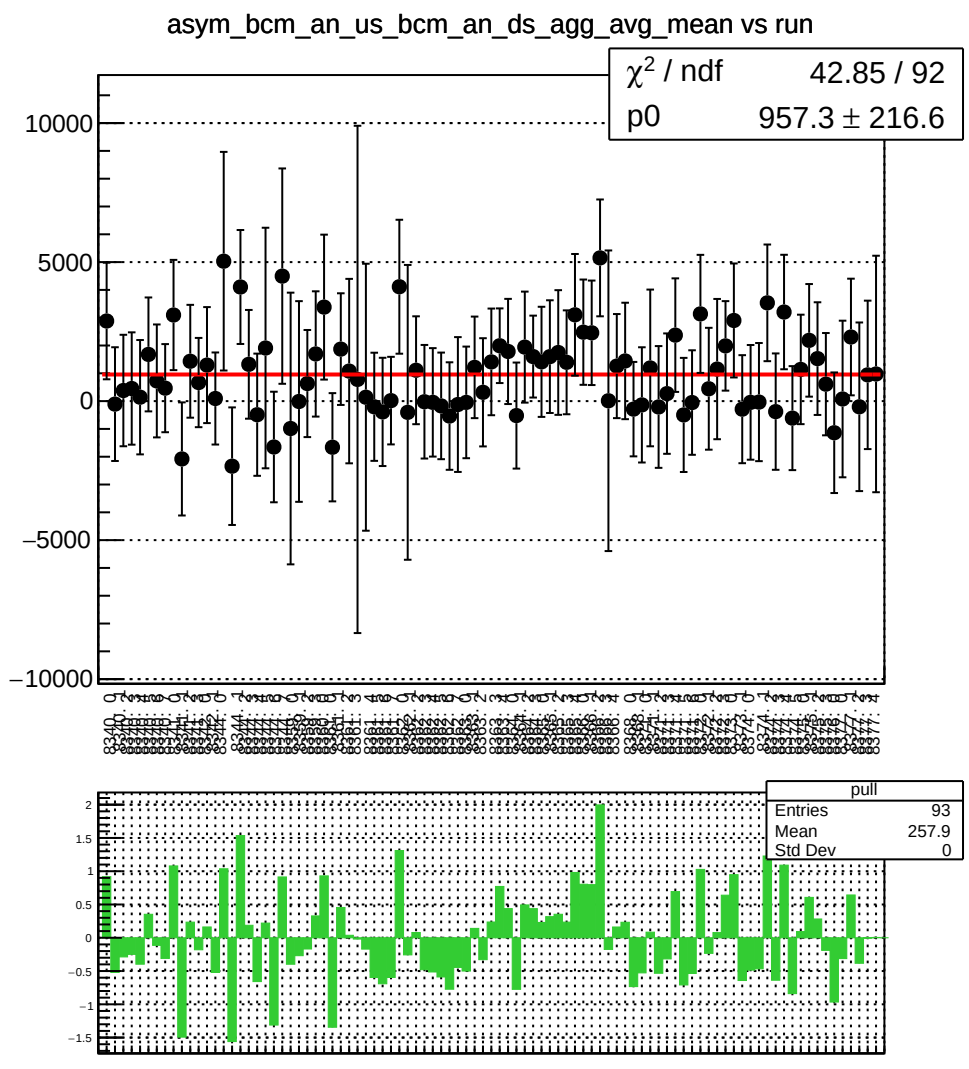

pull1D
Entries 93
Mean 0.4319
Std Dev 5.278
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

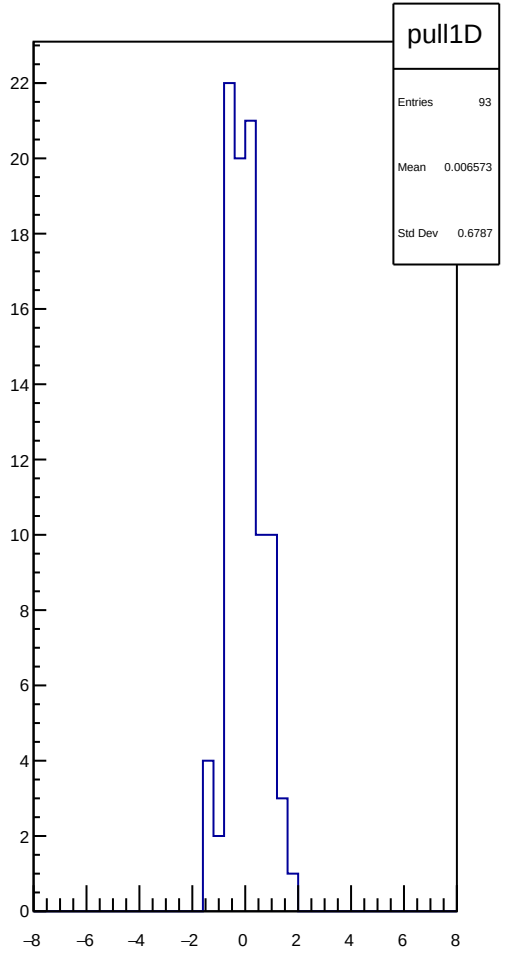

yield_atr1_rms vs run
×10⁻³
χ² / ndf 6.658e+04 / 92
p0 0.0002 ± 1.505e−07
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

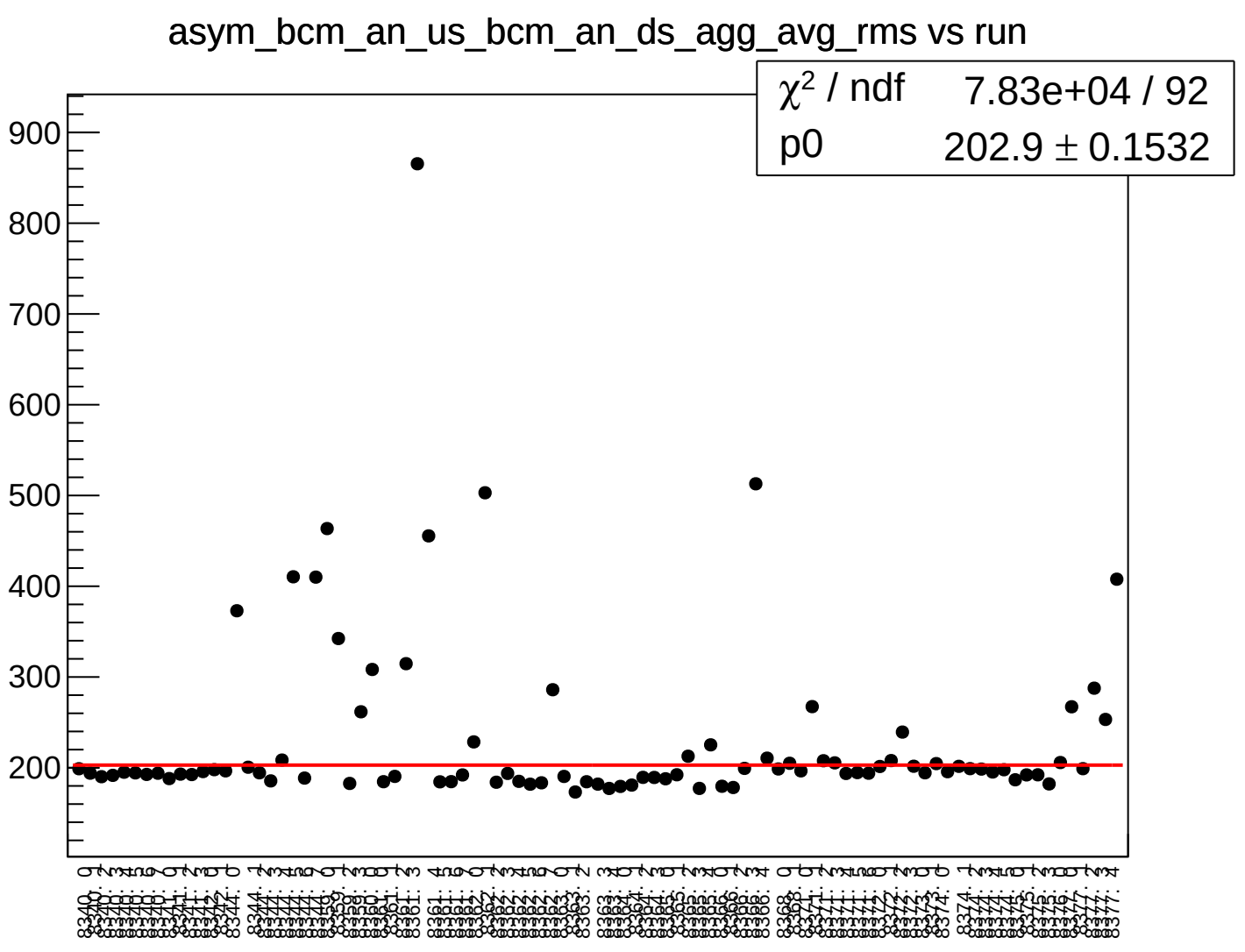

yield_atr2_mean vs run
χ² / ndf 6.952e+05 / 92
p0 0.02196 ± 6.019e−07
0.023
0.0225
0.022
0.0215
0.021
pull
Entries 93
Mean −227.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

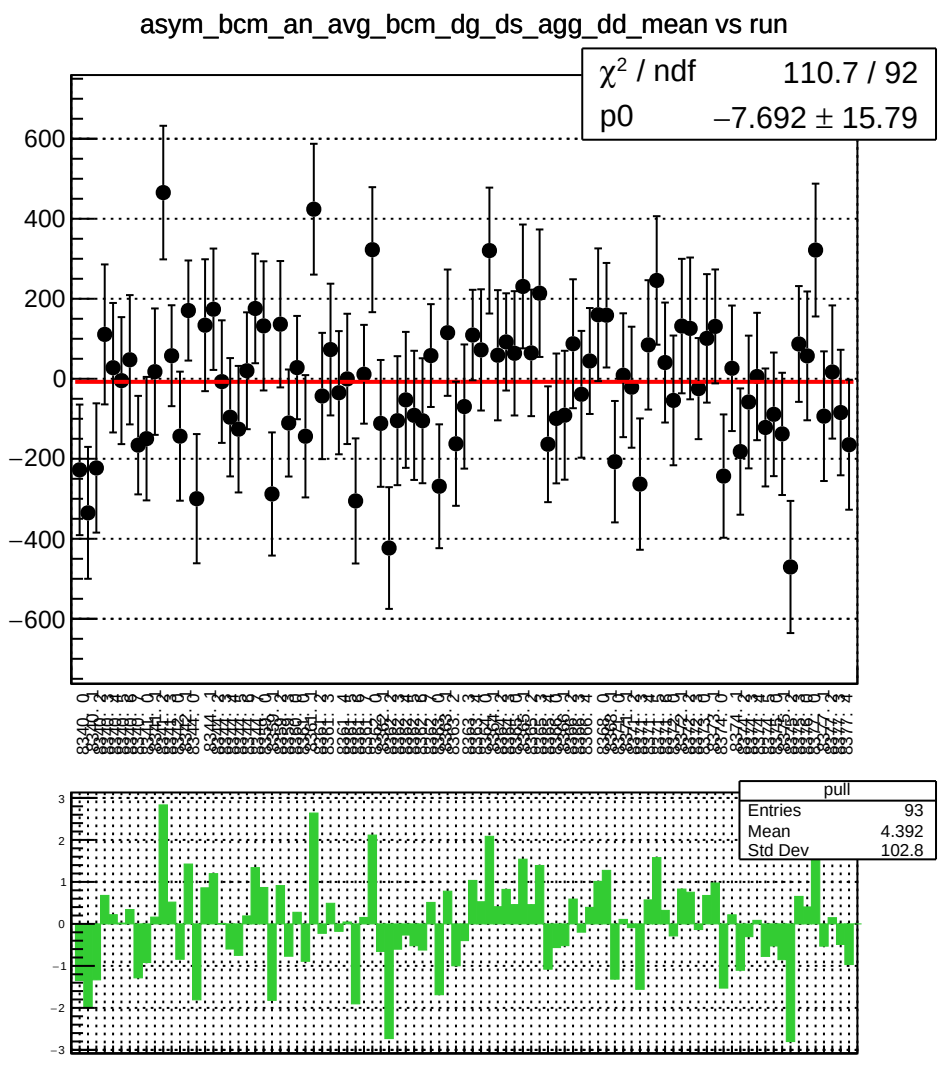

pull1D
Entries 93
Mean 0.4267
Std Dev 3.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

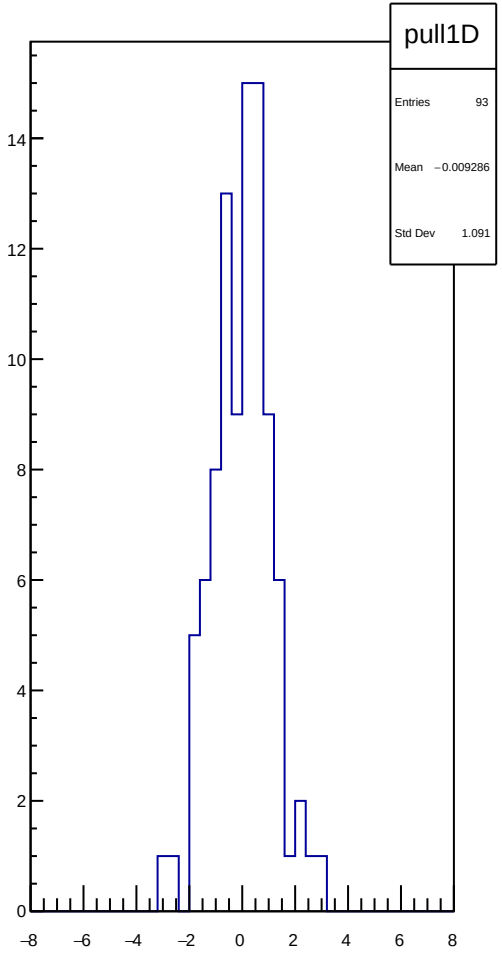

yield_atr2_rms vs run
χ² / ndf 1.274e+05 / 92
p0 0.000556 ± 4.256e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

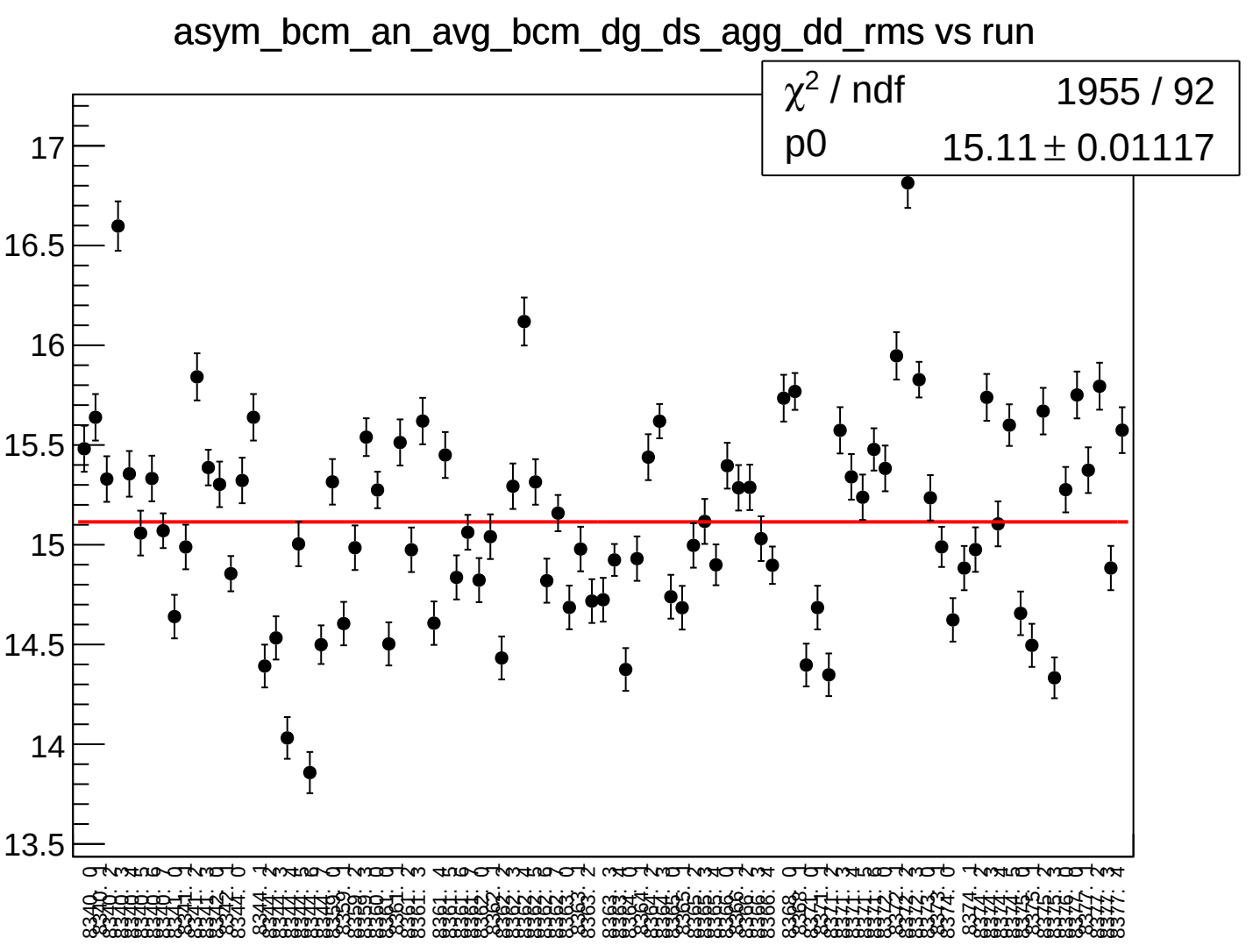

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 42.85 / 92
p0 957.3 ± 216.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 257.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

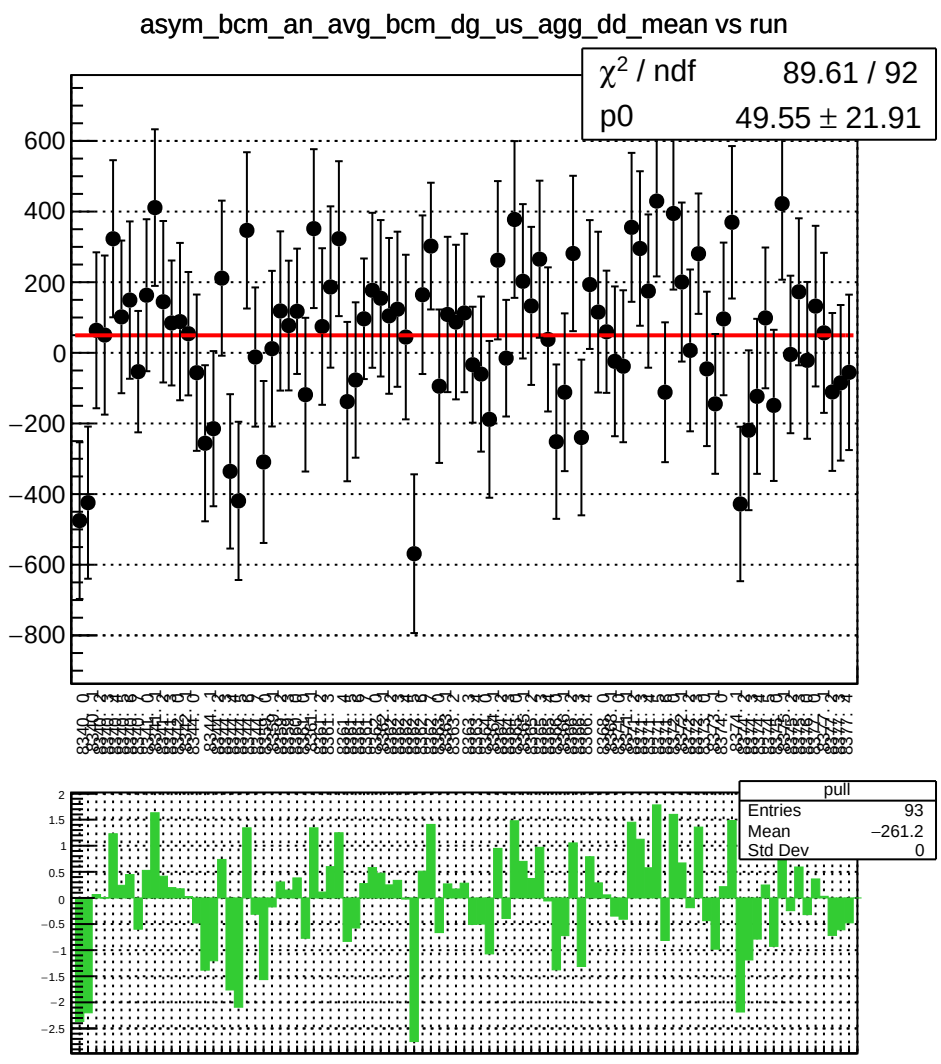

pull1D
Entries 93
Mean 0.006573
Std Dev 0.6787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

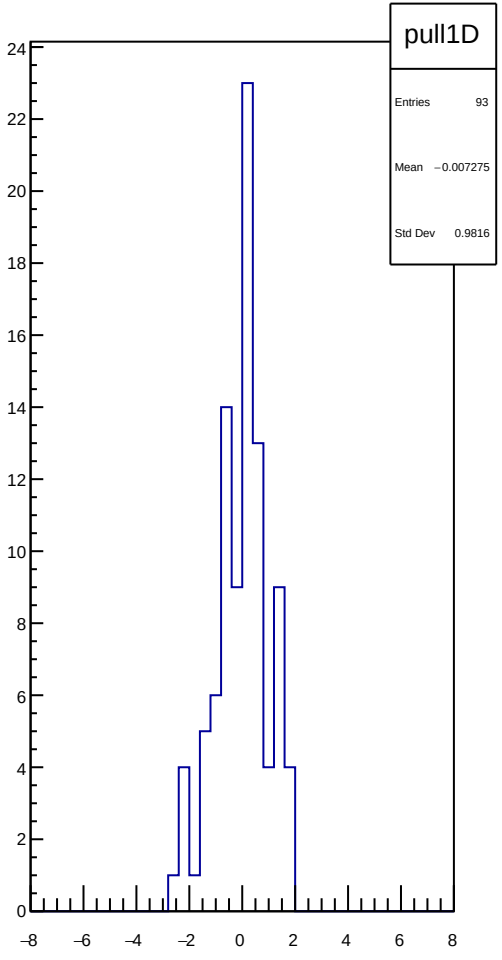

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.83e+04 / 92
p0 202.9 ± 0.1532
900
800
700
600
500
400
300
200

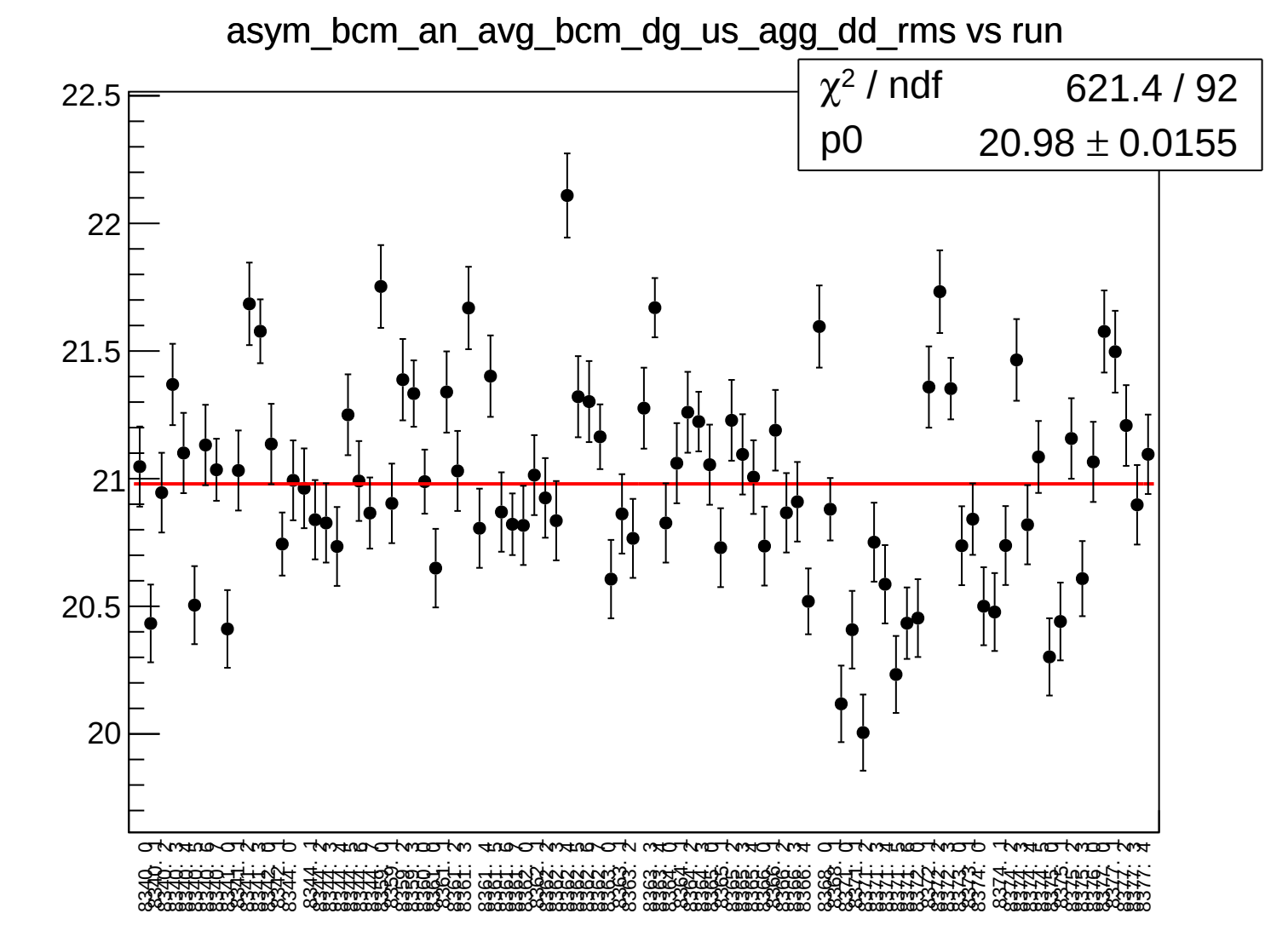

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 110.7 / 92
p0 −7.692 ± 15.79
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean 4.392
Std Dev 102.8
3
2
1
0
−1
−2
−3

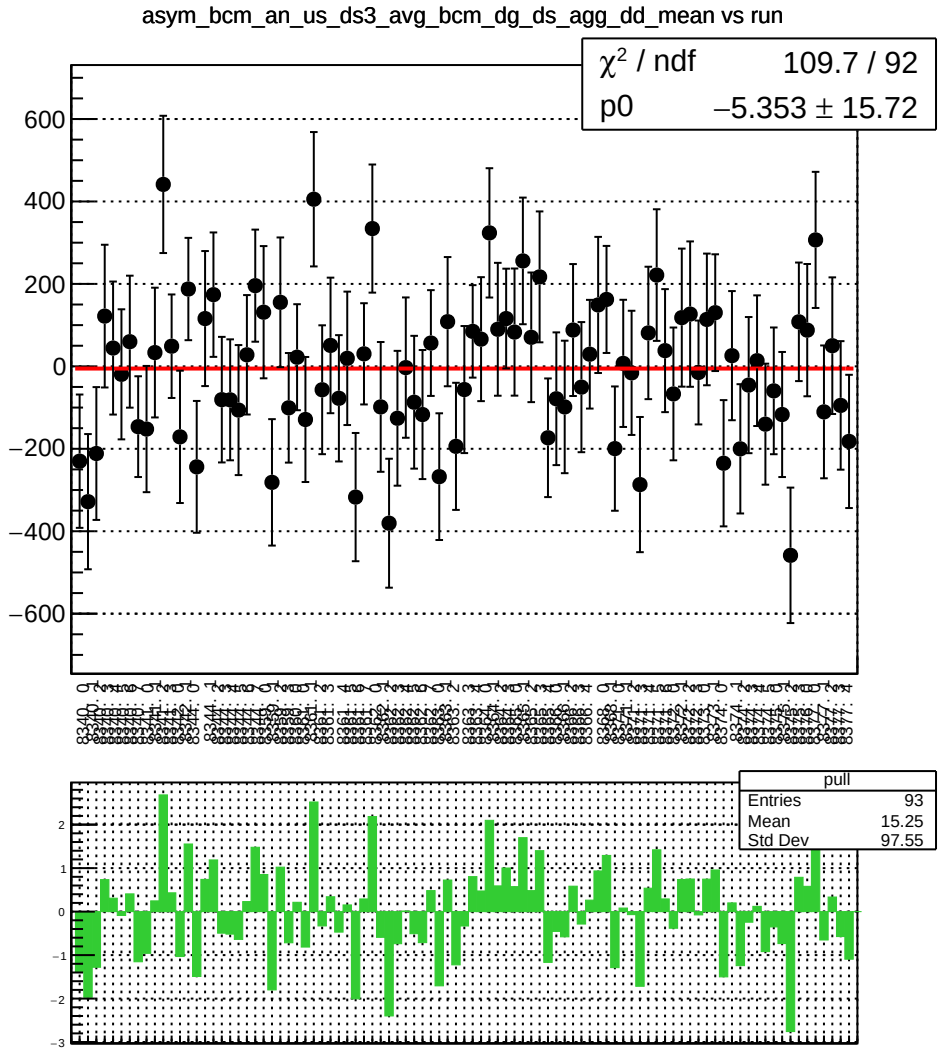

pull1D
Entries 93
Mean −0.009286
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

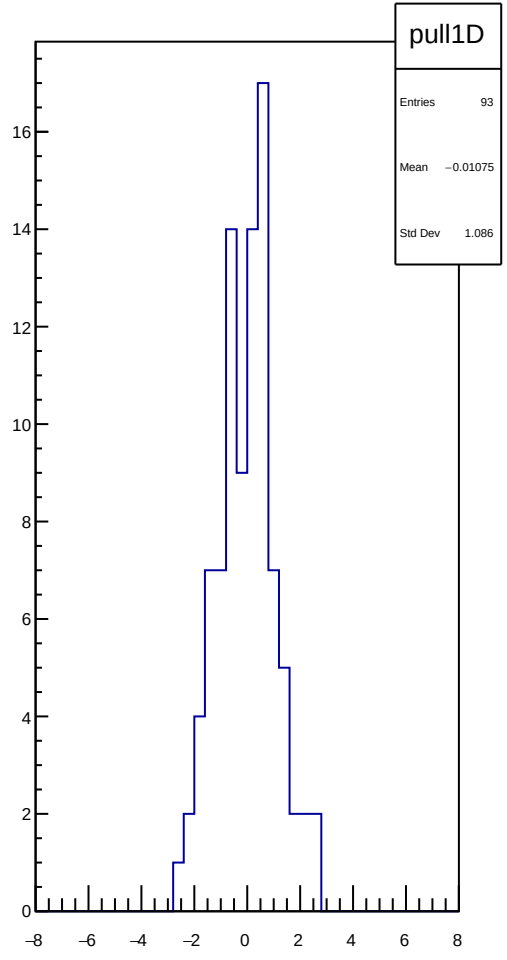

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1955 / 92
p0 15.11 ± 0.01117
17
16.5
16
15.5
15
14.5
14
13.5

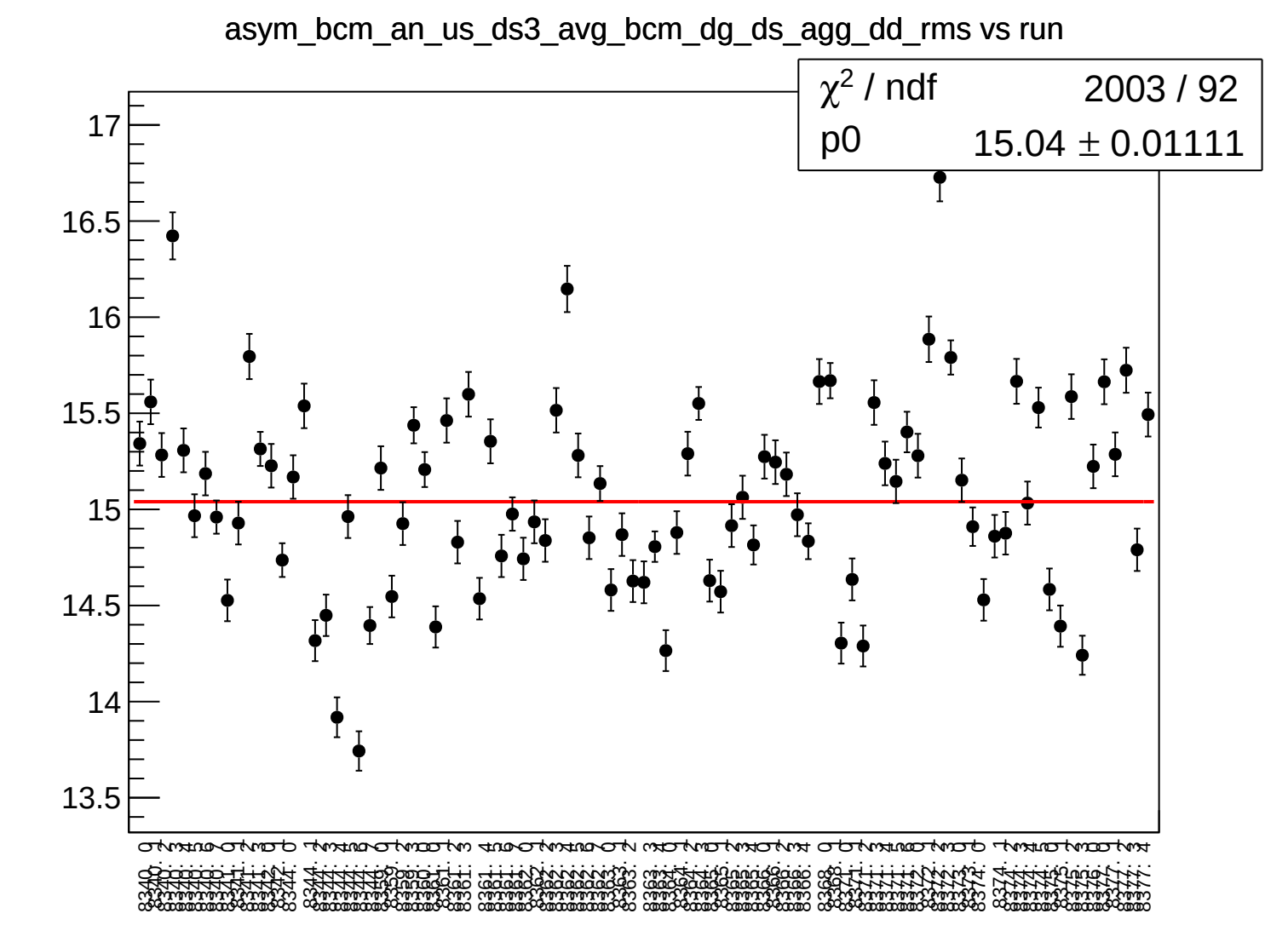

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 89.61 / 92
p0 49.55 ± 21.91
pull
Entries 93
Mean −261.2
Std Dev 0

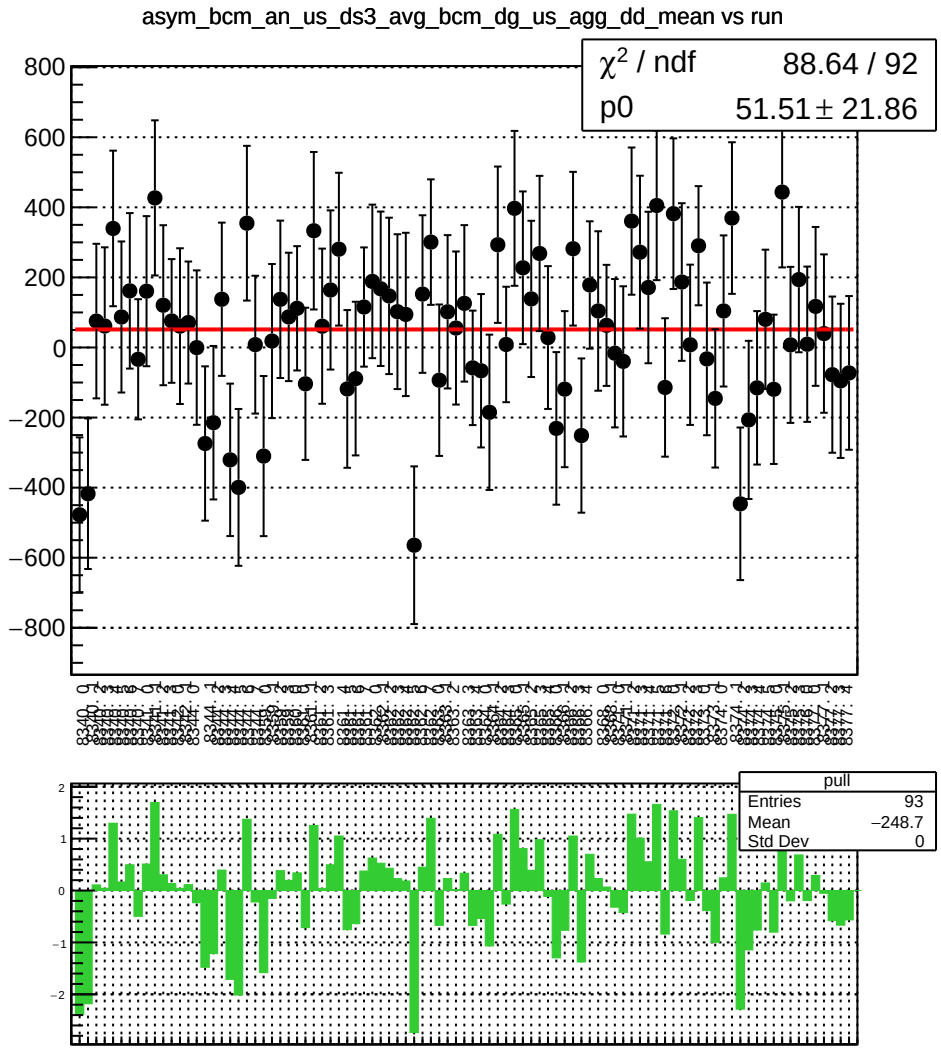

pull1D
Entries 93
Mean −0.007275
Std Dev 0.9816

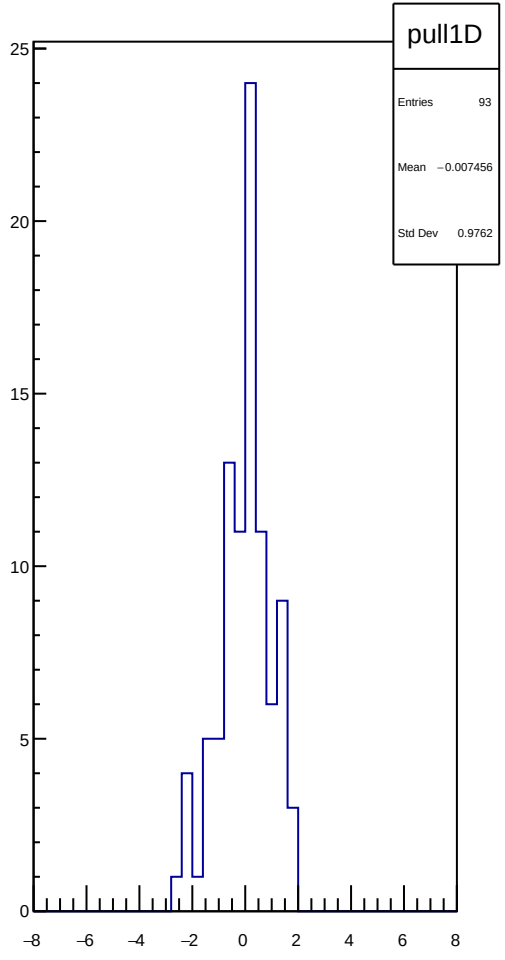

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 621.4 / 92
p0 20.98 ± 0.0155
22.5
22
21.5
21
20.5
20

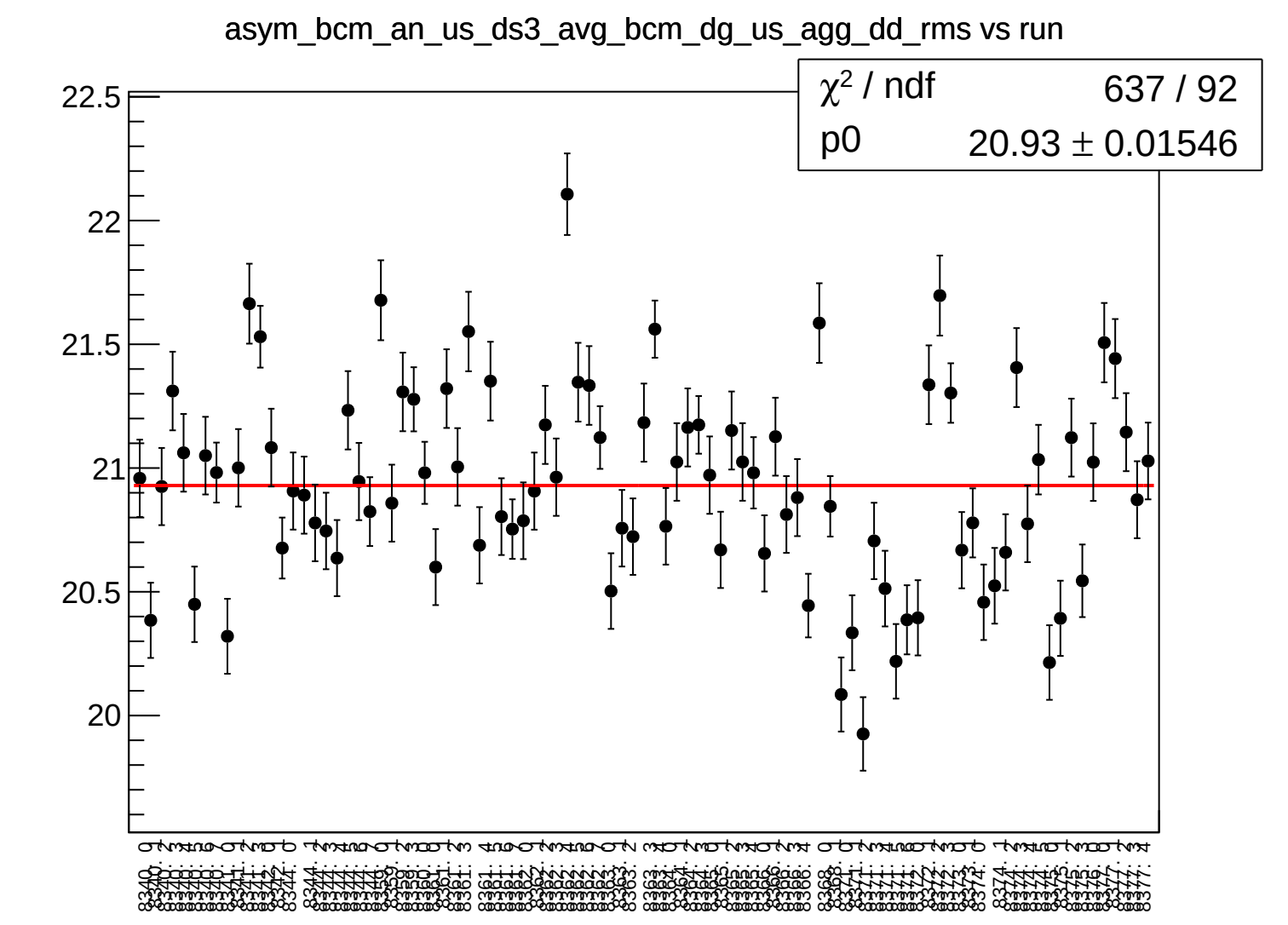

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 109.7 / 92
p0 −5.353 ± 15.72
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean 15.25
Std Dev 97.55
2
1
0
−1
−2
−3

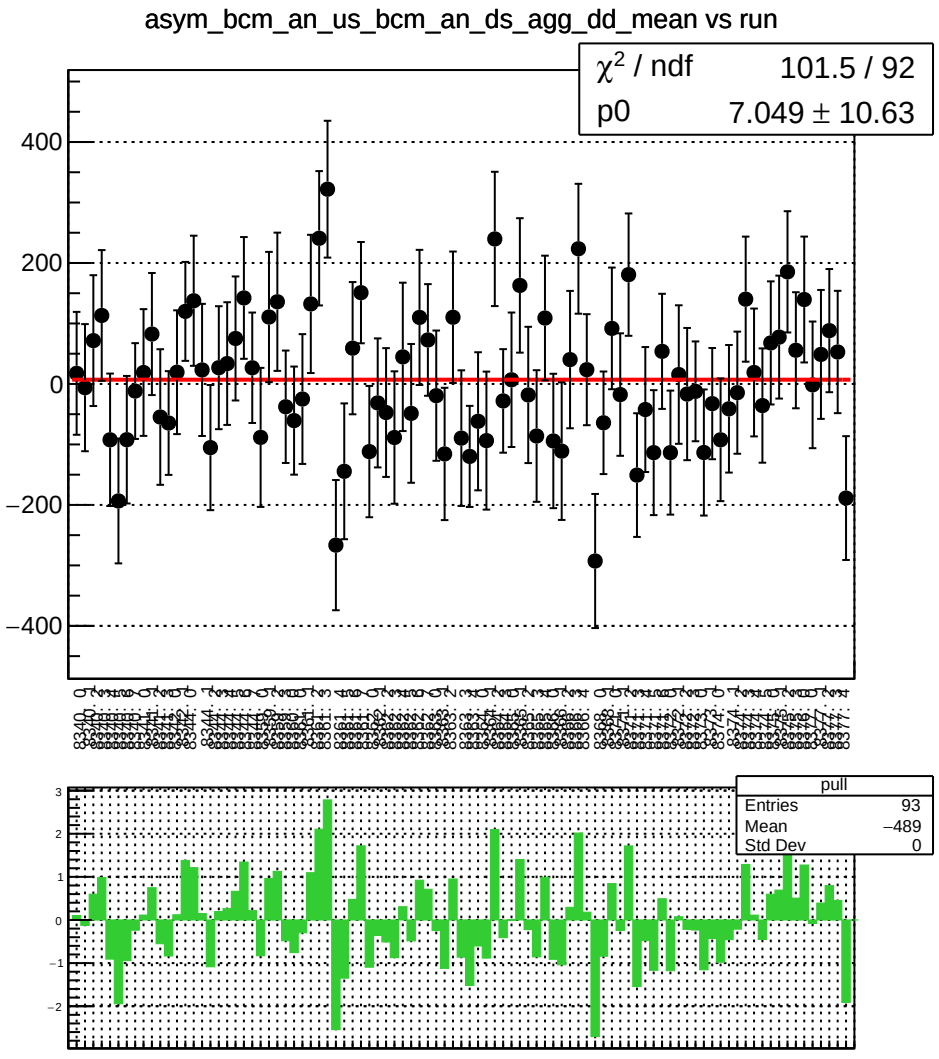

pull1D
Entries 93
Mean −0.01075
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

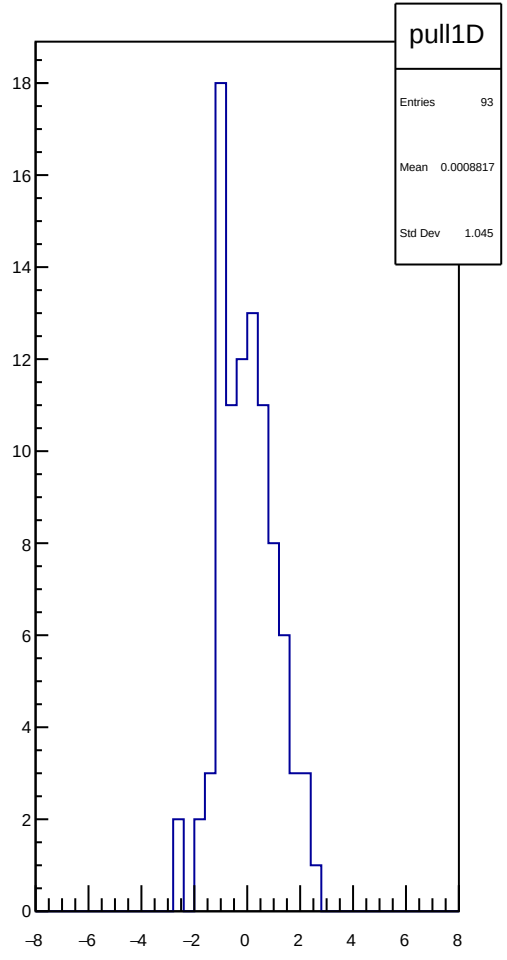

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2003 / 92
p0 15.04 ± 0.01111
17
16.5
16
15.5
15
14.5
14
13.5

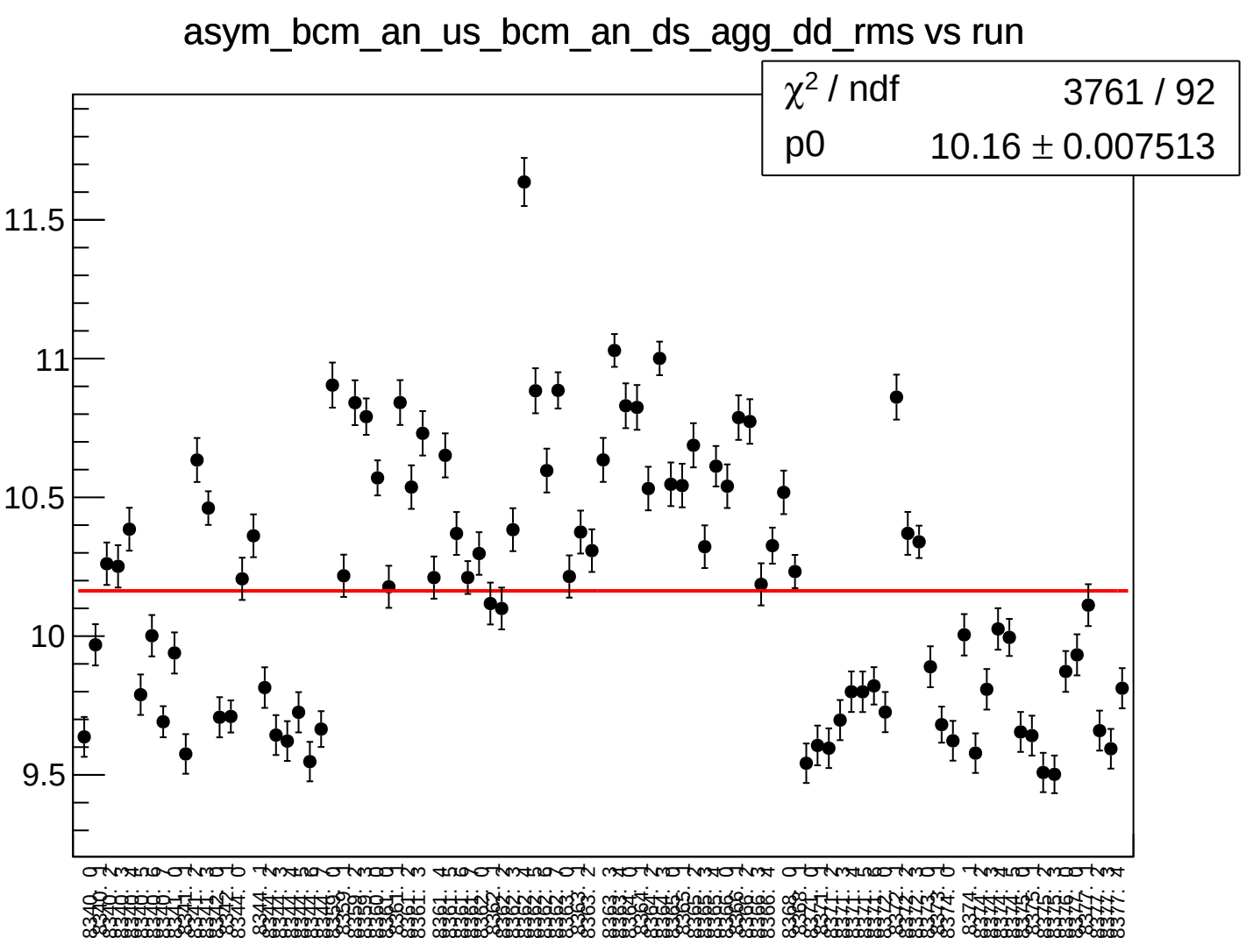

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 88.64 / 92
p0 51.51 ± 21.86
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 93
Mean −248.7
Std Dev 0
2
1
0
−1
−2

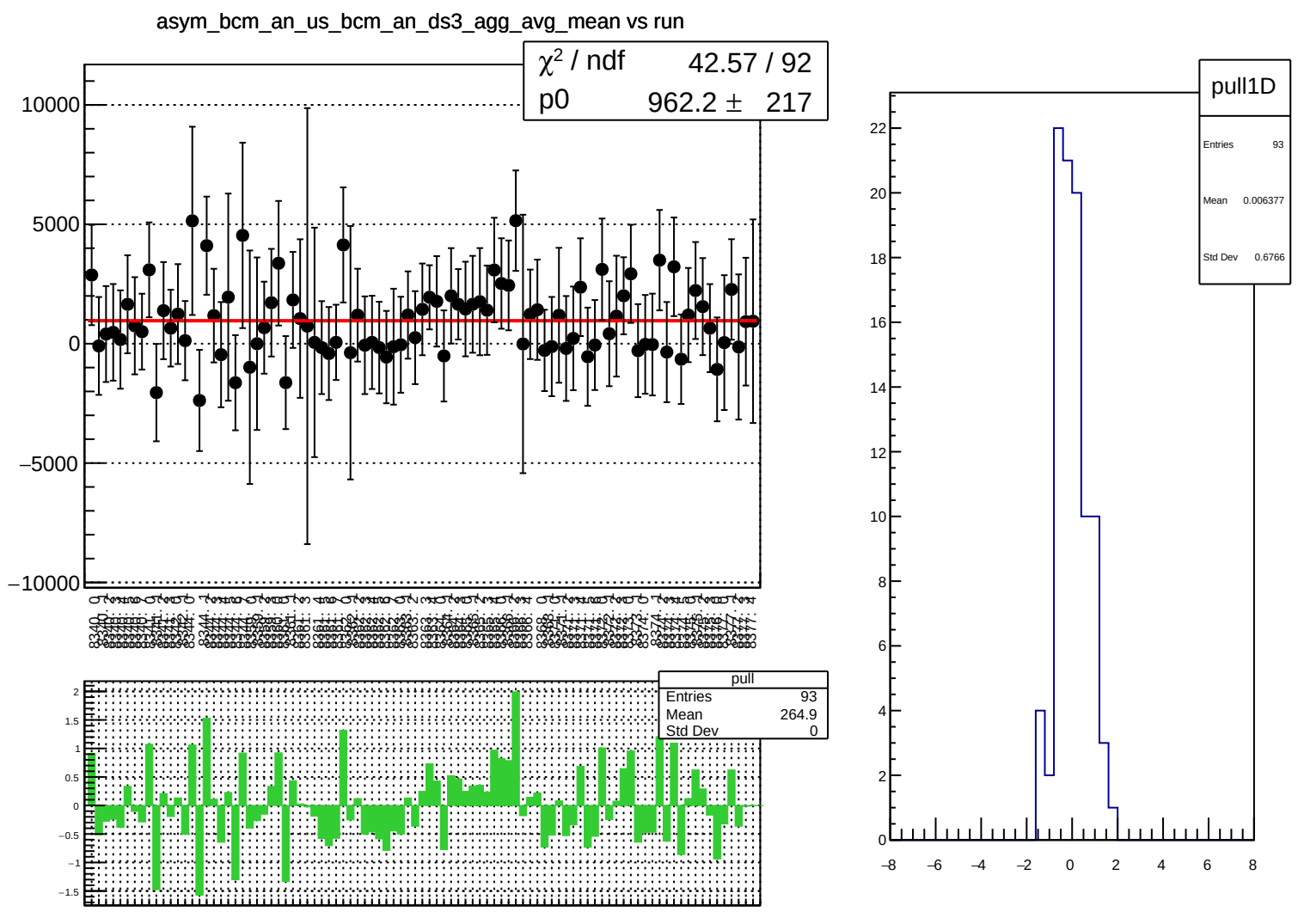

pull1D
Entries 93
Mean −0.007456
Std Dev 0.9762
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

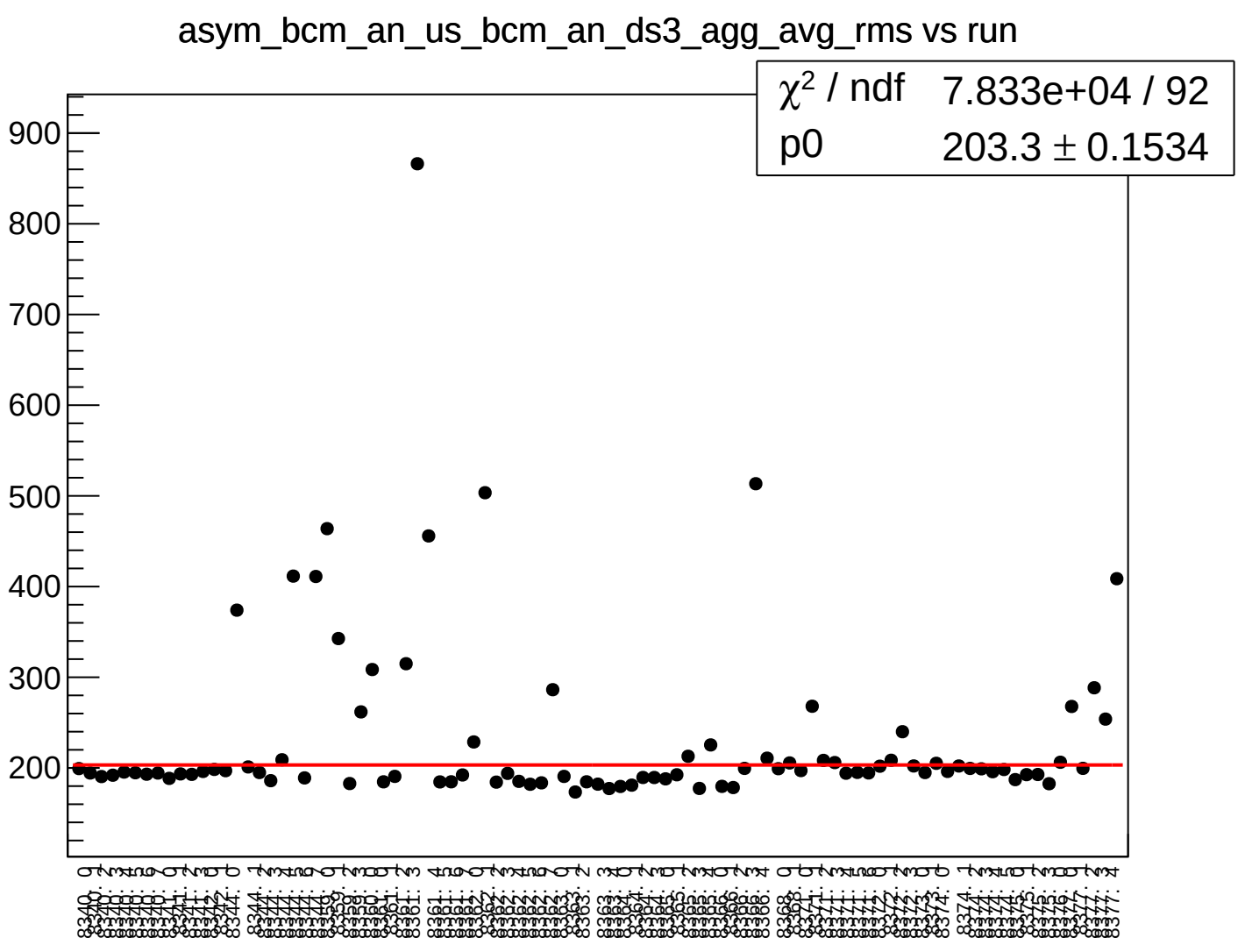

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 637 / 92
p0 20.93 ± 0.01546
22.5
22
21.5
21
20.5
20

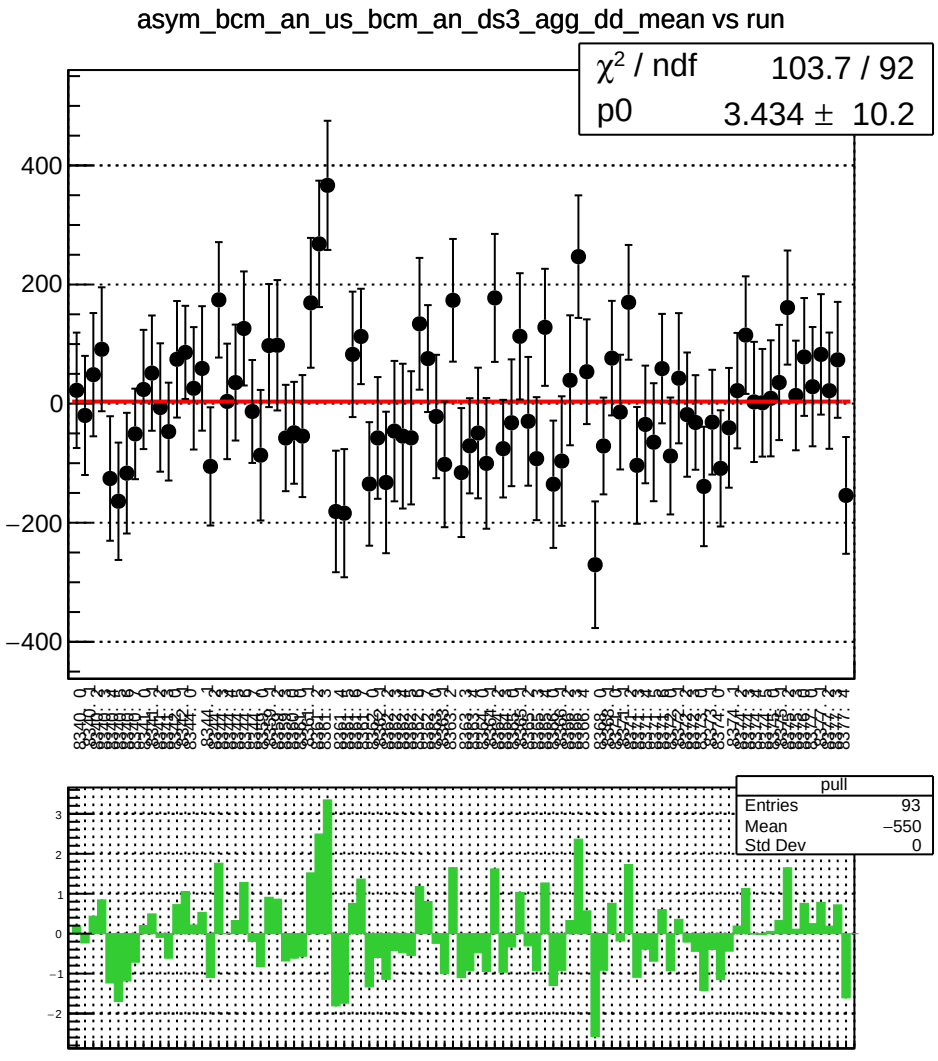

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.5 / 92
p0 7.049 ± 10.63
400
200
0
−200
−400
pull
Entries 93
Mean −489
Std Dev 0
3
2
1
0
−1
−2

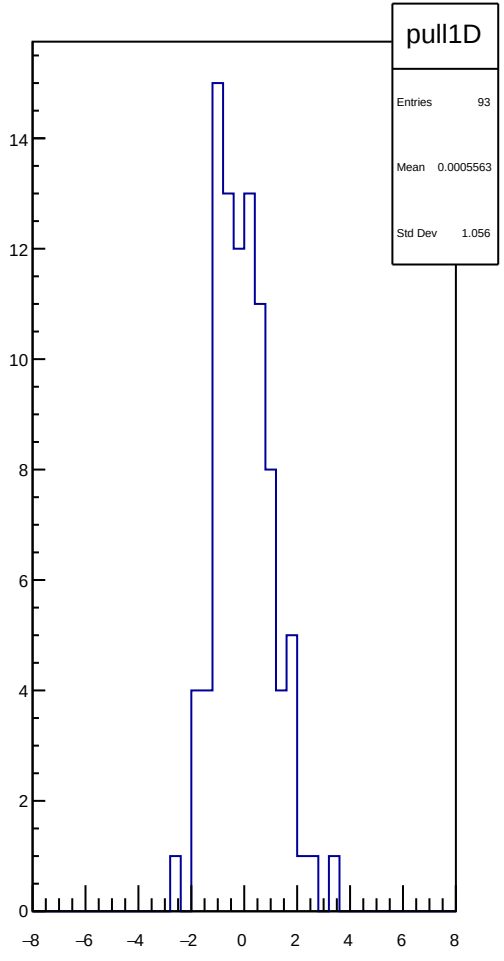

pull1D
Entries 93
Mean 0.0008817
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

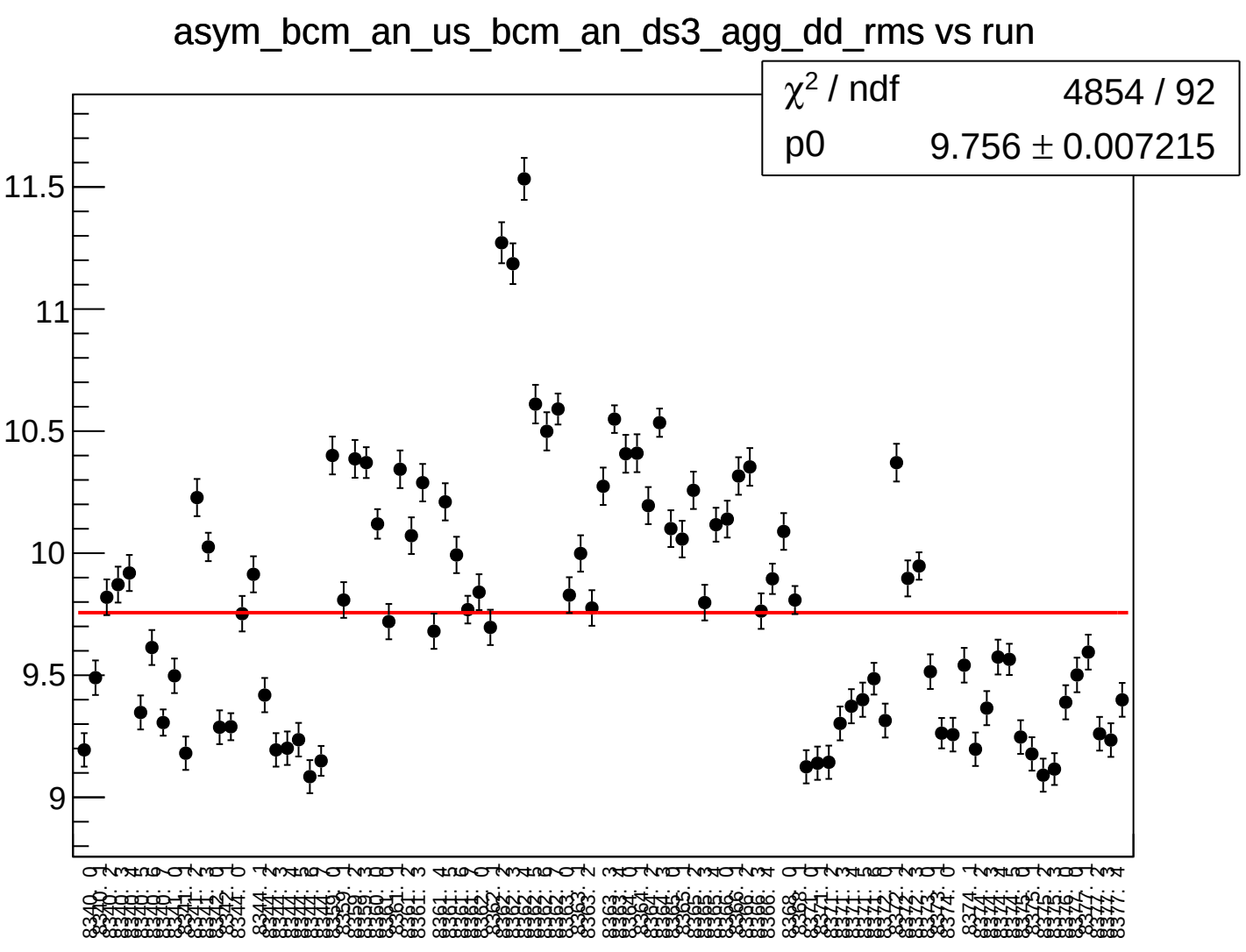

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3761 / 92
p0 10.16 ± 0.007513
11.5
11
10.5
10
9.5

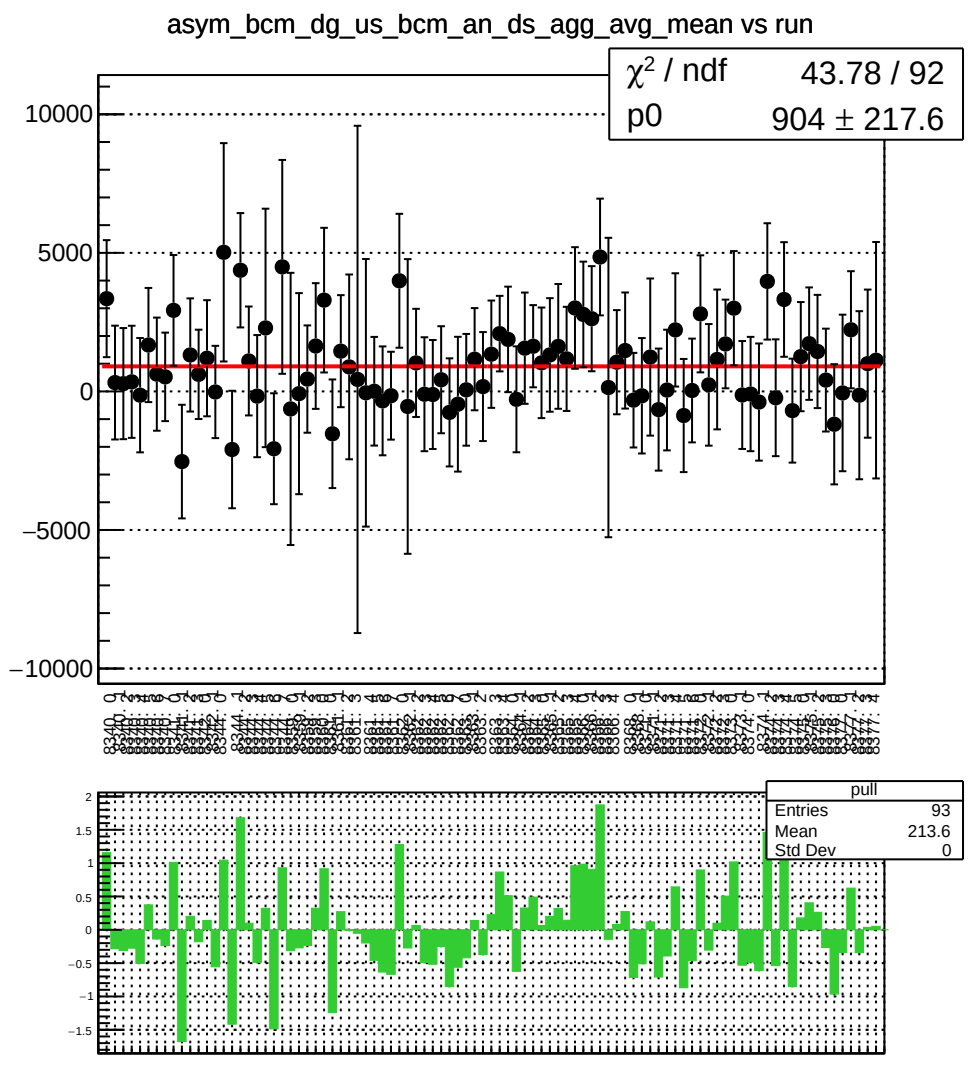

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 42.57 / 92
p0 962.2 ± 217
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 264.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.006377
Std Dev 0.6766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

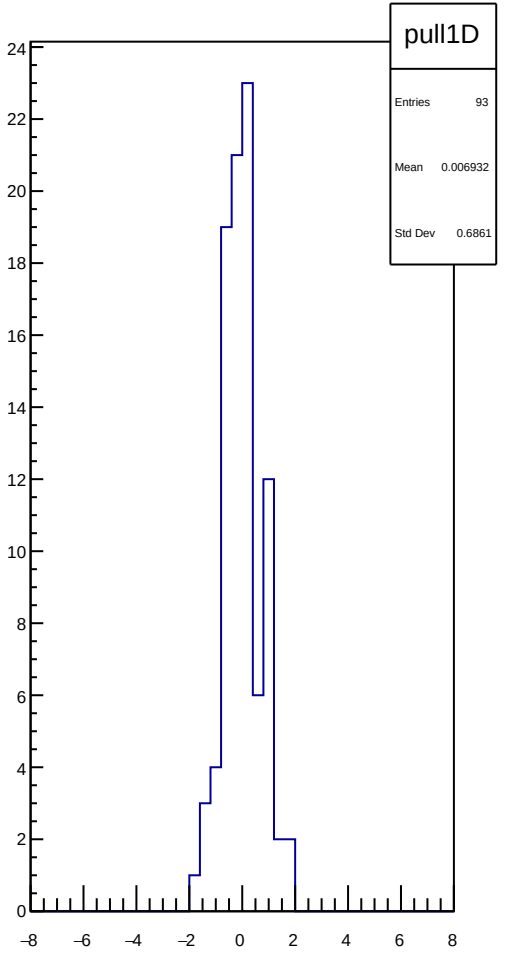

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 7.833e+04 / 92
p0 203.3 ± 0.1534
900
800
700
600
500
400
300
200

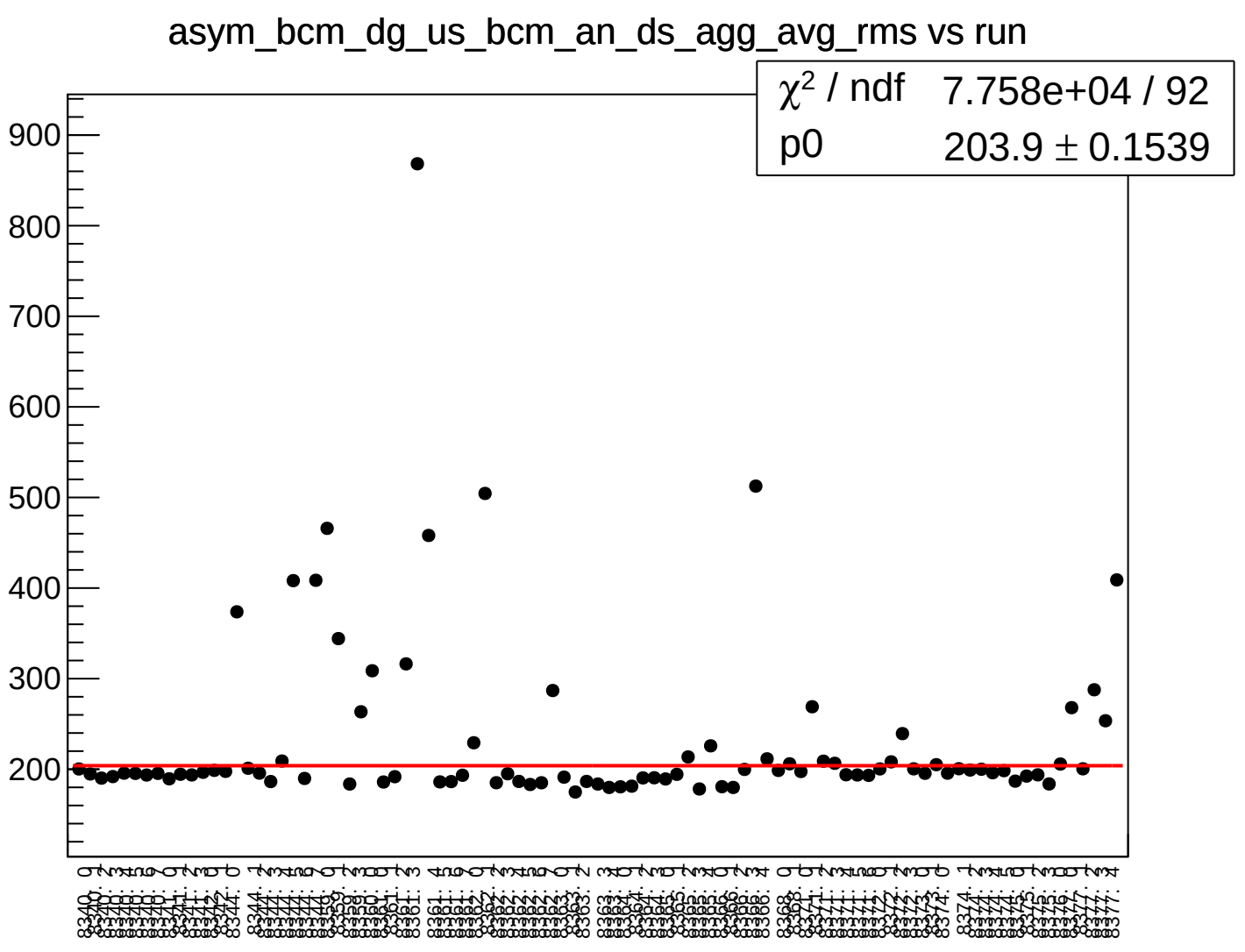

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 103.7 / 92
p0 3.434 ± 10.2
400
200
0
−200
−400
pull
Entries 93
Mean −550
Std Dev 0
3
2
1
0
−1
−2

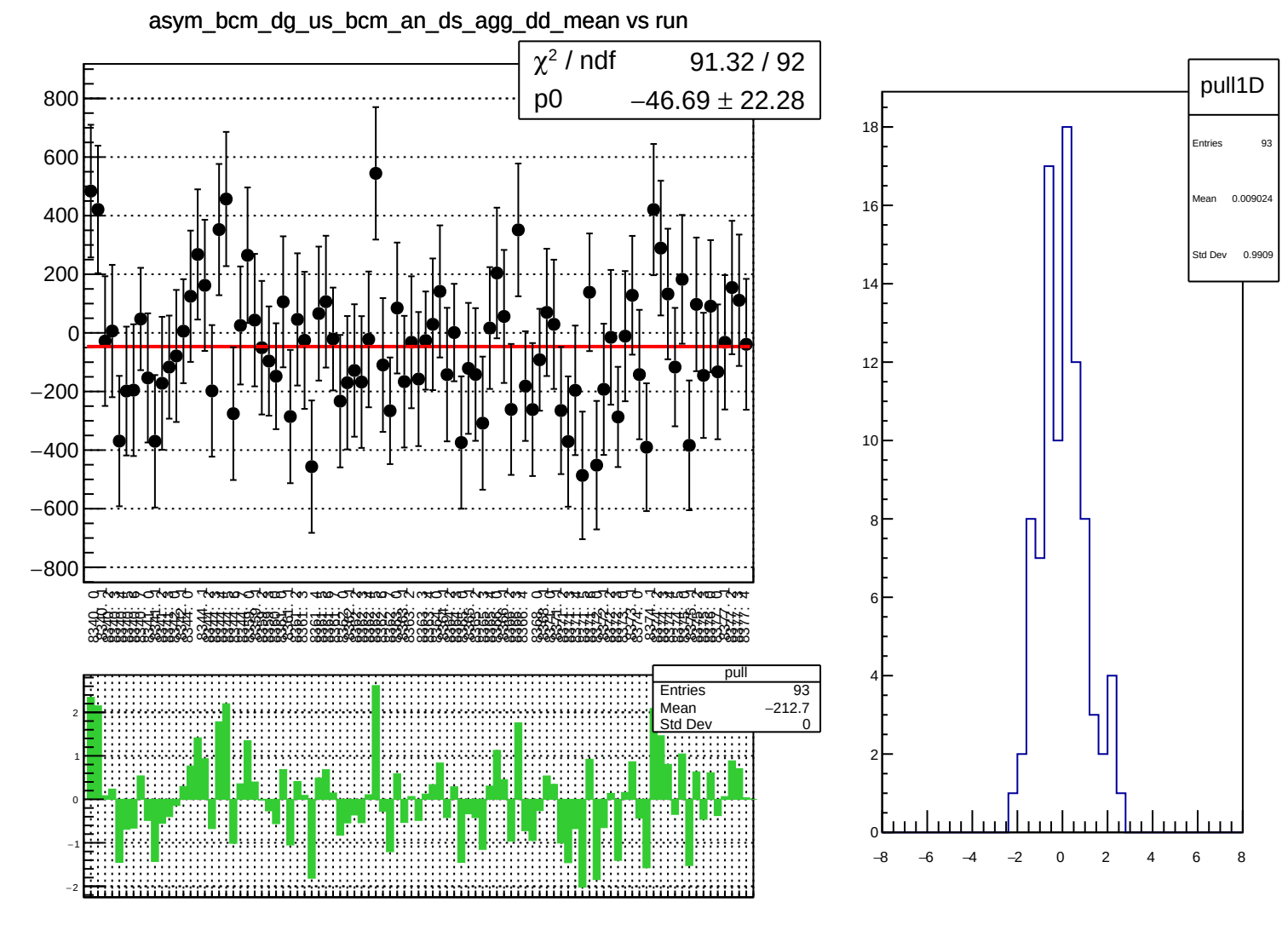

pull1D
Entries 93
Mean 0.0005563
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

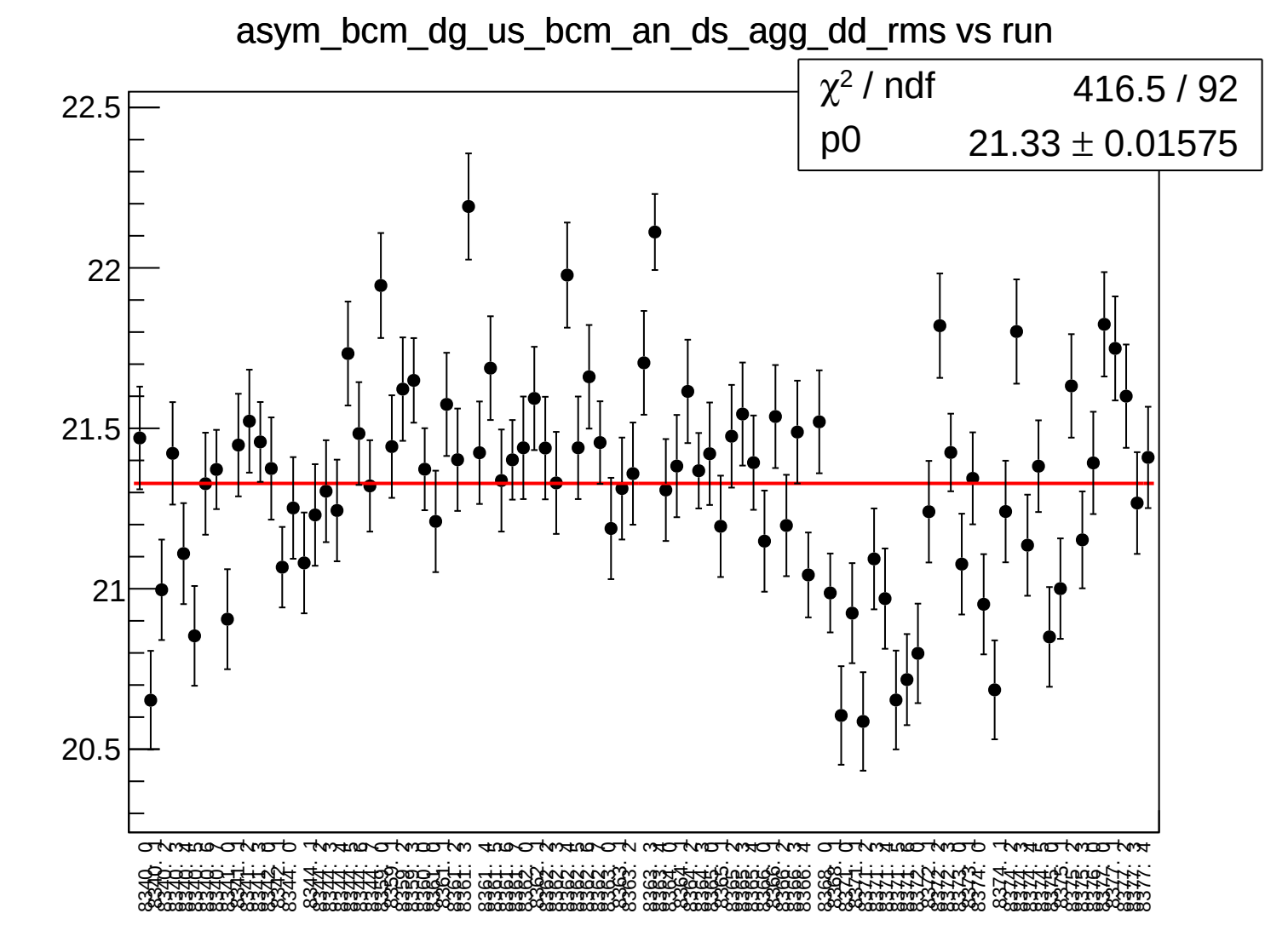

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4854 / 92
p0 9.756 ± 0.007215
11.5
11
10.5
10
9.5
9

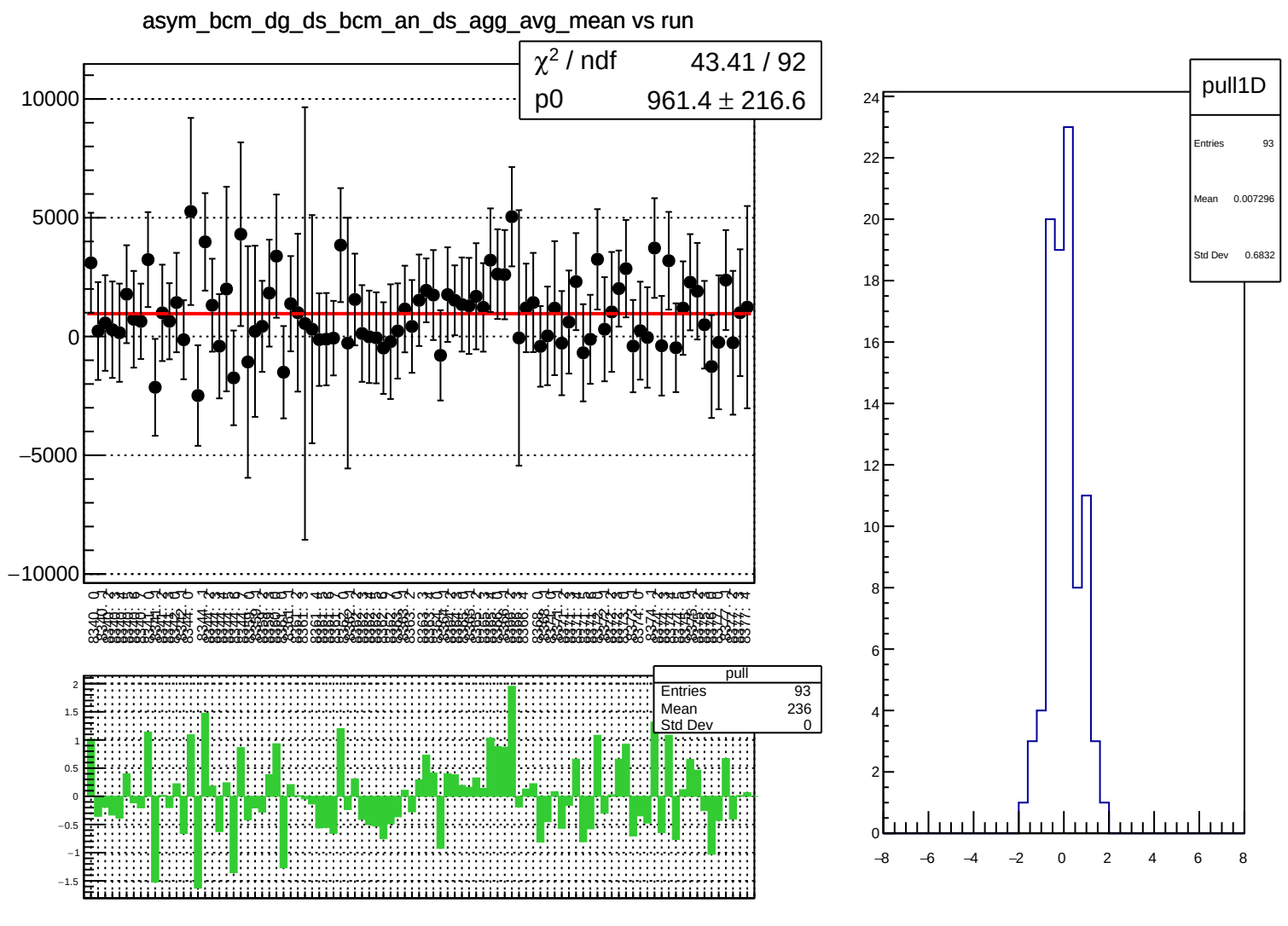

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 43.78 / 92
p0 904 ± 217.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 213.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

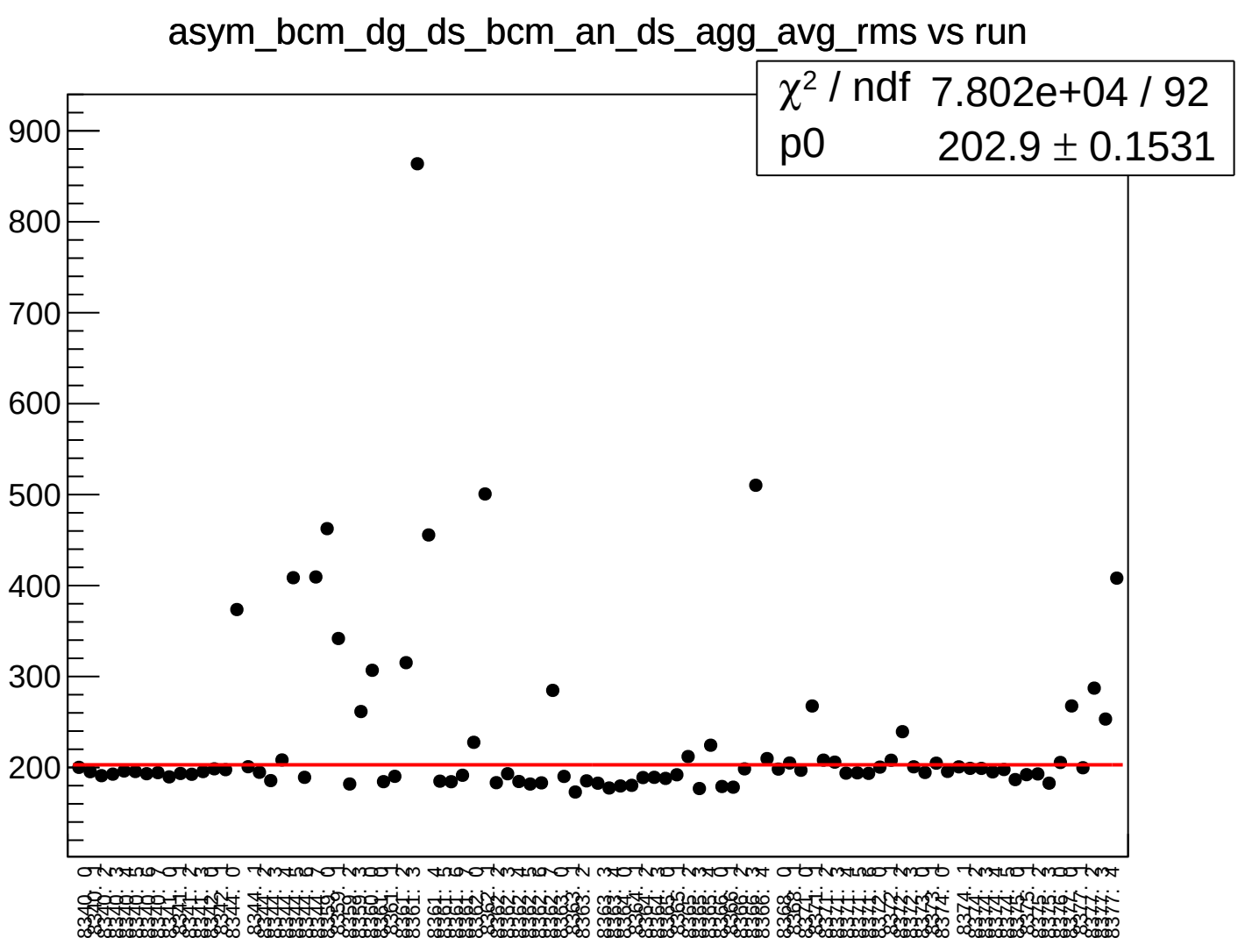

pull1D
Entries 93
Mean 0.006932
Std Dev 0.6861
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

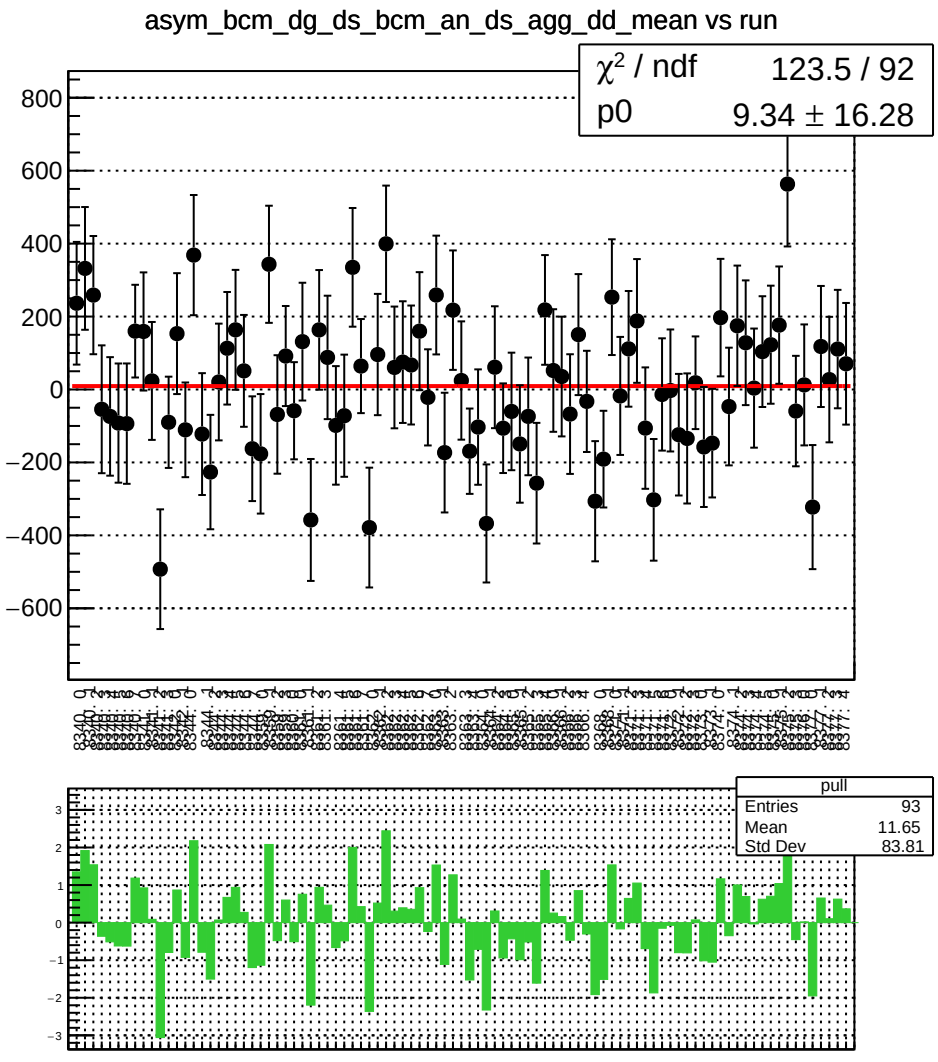

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.758e+04 / 92
p0 203.9 ± 0.1539
900
800
700
600
500
400
300
200

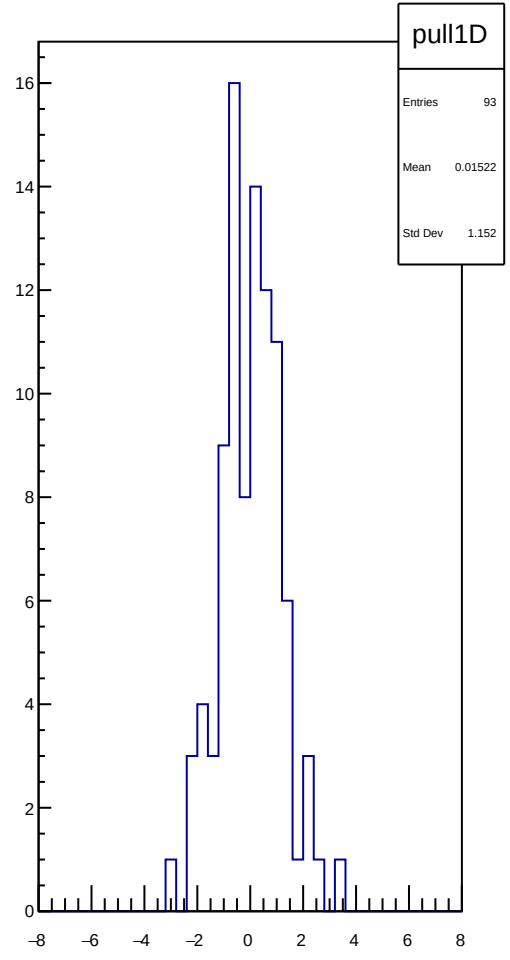

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 91.32 / 92
p0 −46.69 ± 22.28
pull
Entries 93
Mean −212.7
Std Dev 0
pull1D
Entries 93
Mean 0.009024
Std Dev 0.9909

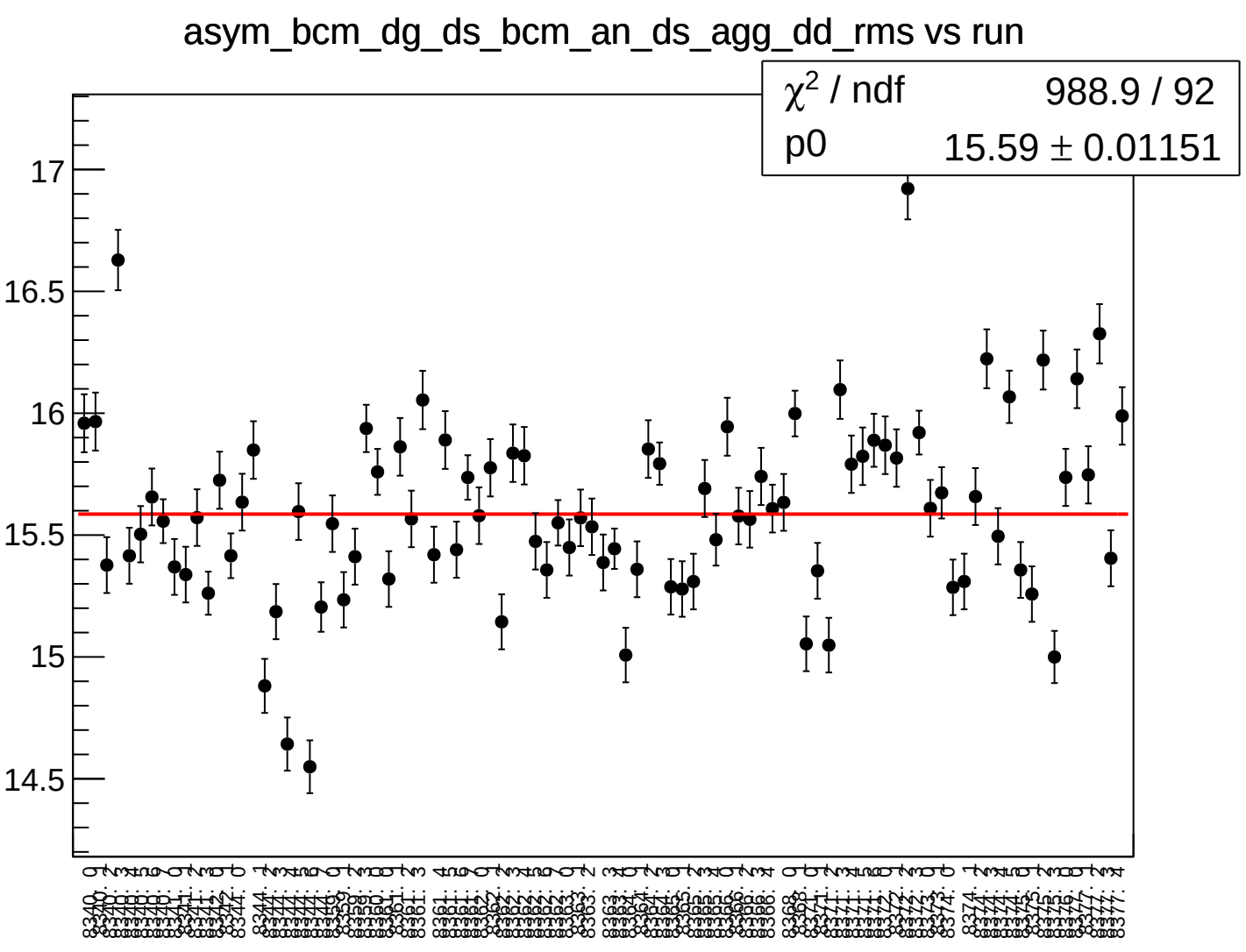

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 416.5 / 92
p0 21.33 ± 0.01575
22.5
22
21.5
21
20.5

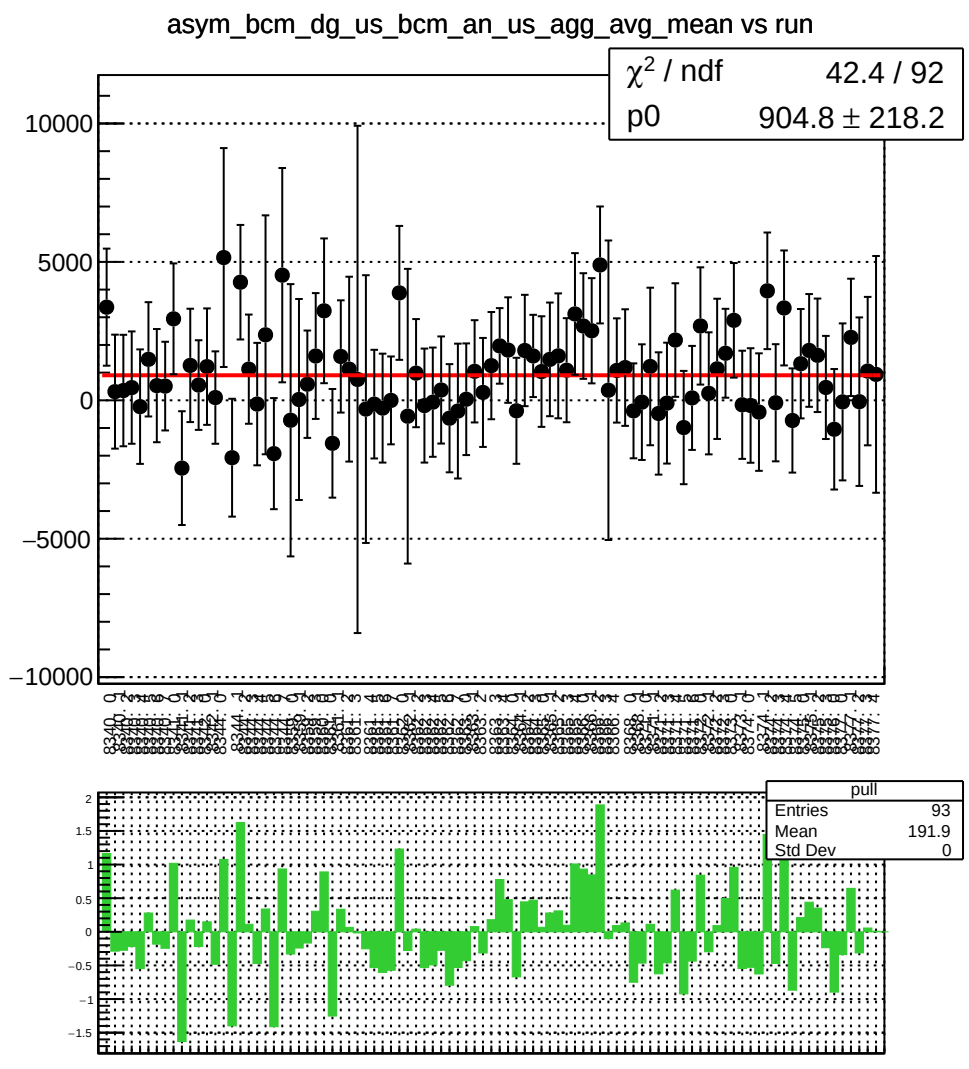

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 43.41 / 92
p0 961.4 ± 216.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 236
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.007296
Std Dev 0.6832
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

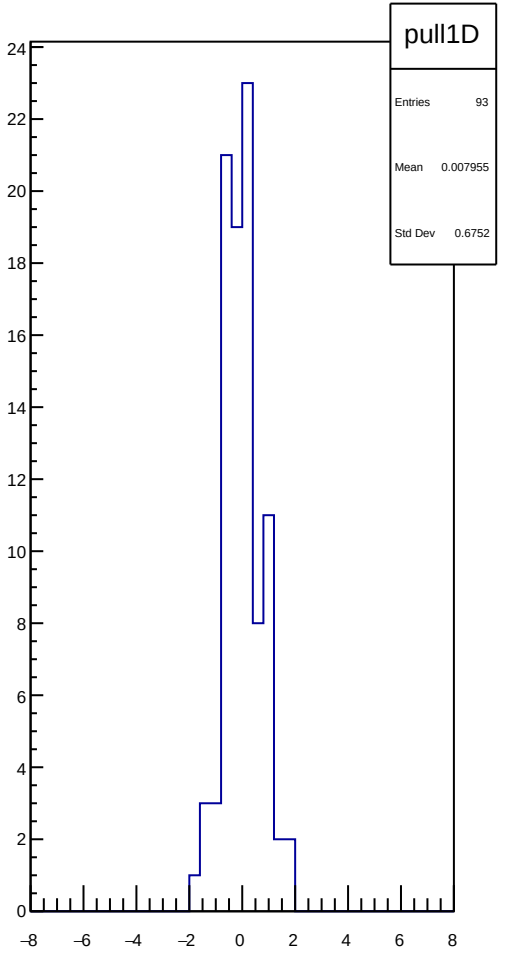

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.802e+04 / 92
p0 202.9 ± 0.1531
900
800
700
600
500
400
300
200

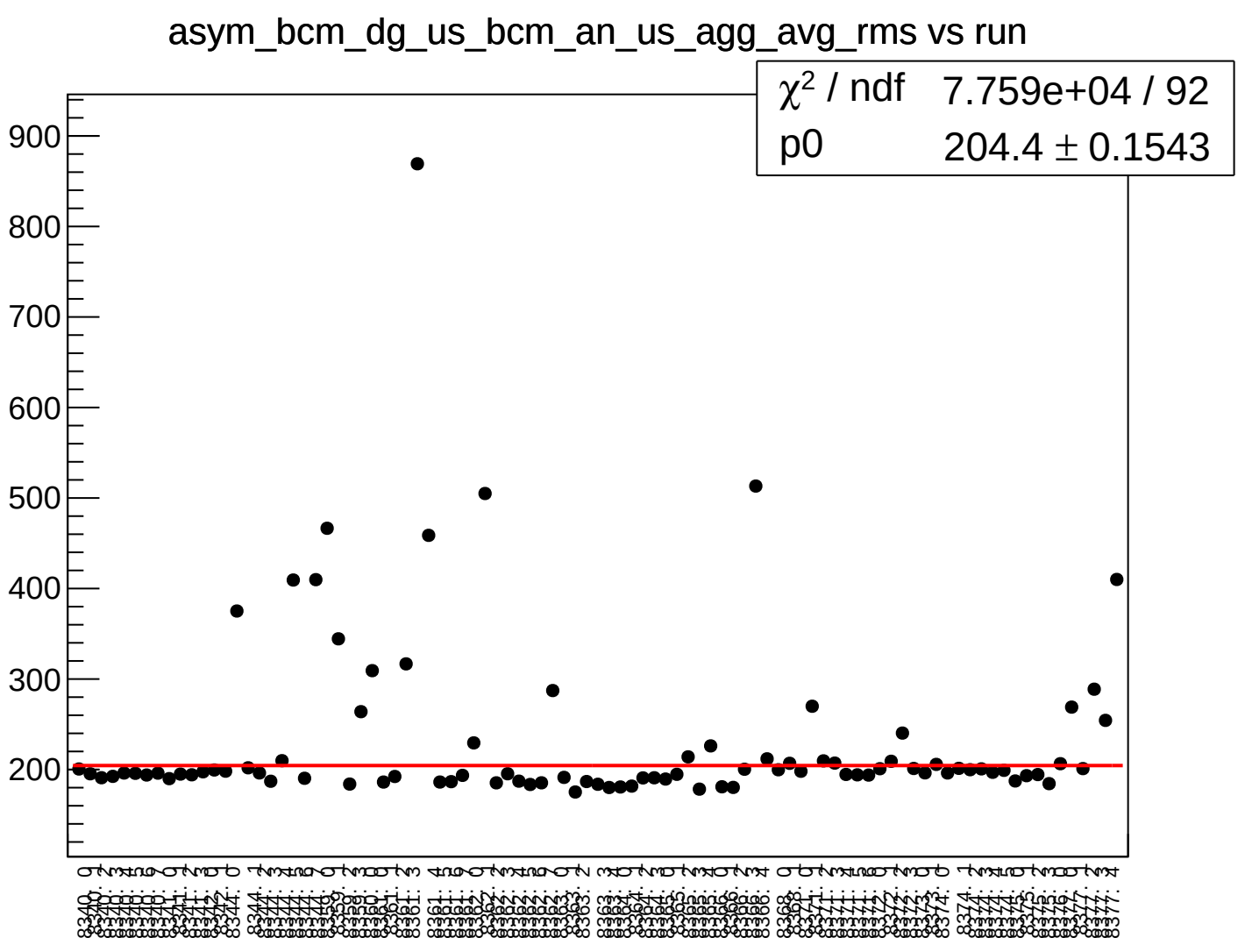

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 123.5 / 92
p0 9.34 ± 16.28
pull
Entries 93
Mean 11.65
Std Dev 83.81

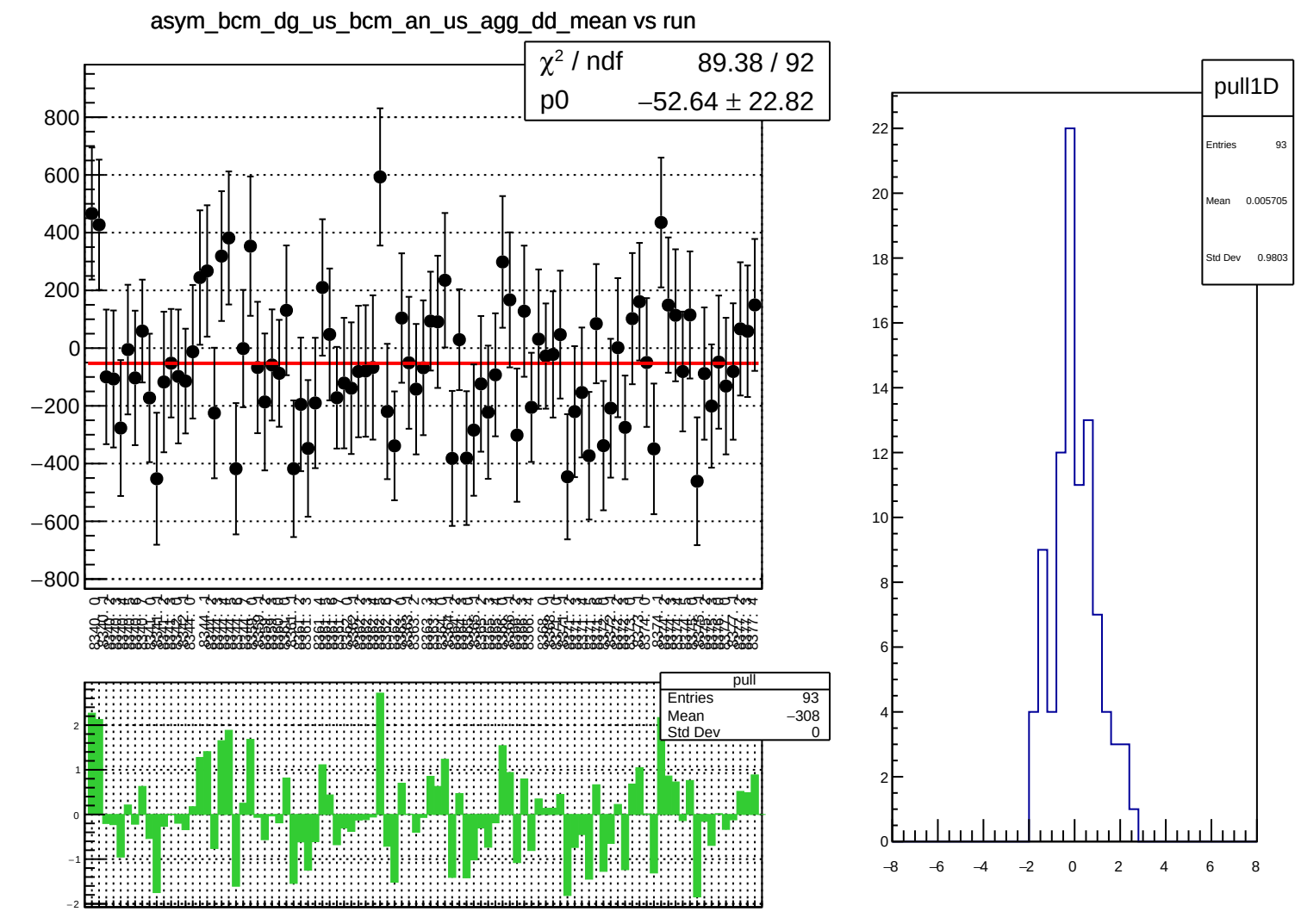

pull1D
Entries 93
Mean 0.01522
Std Dev 1.152

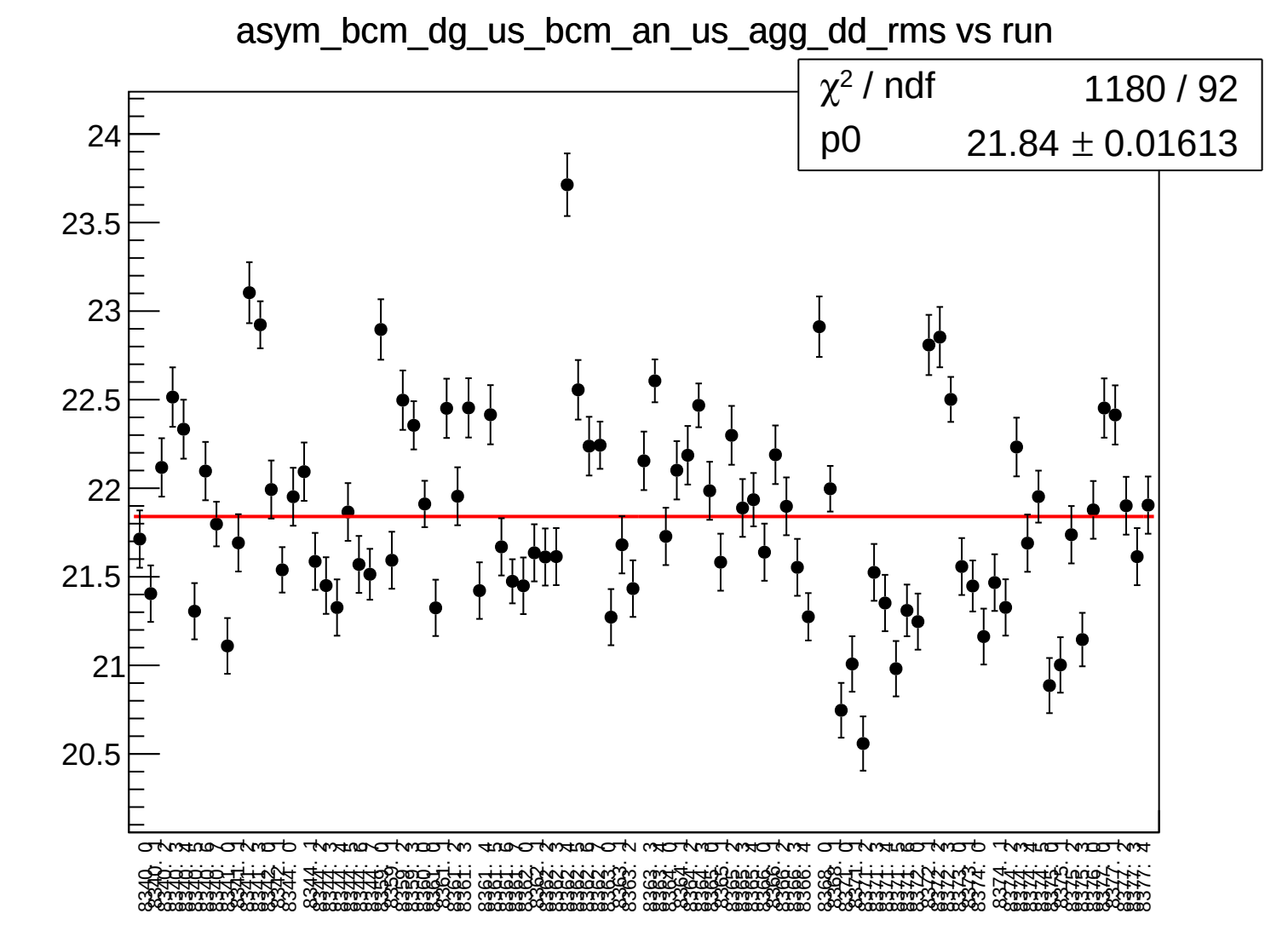

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 988.9 / 92
p0 15.59 ± 0.01151
17
16.5
16
15.5
15
14.5

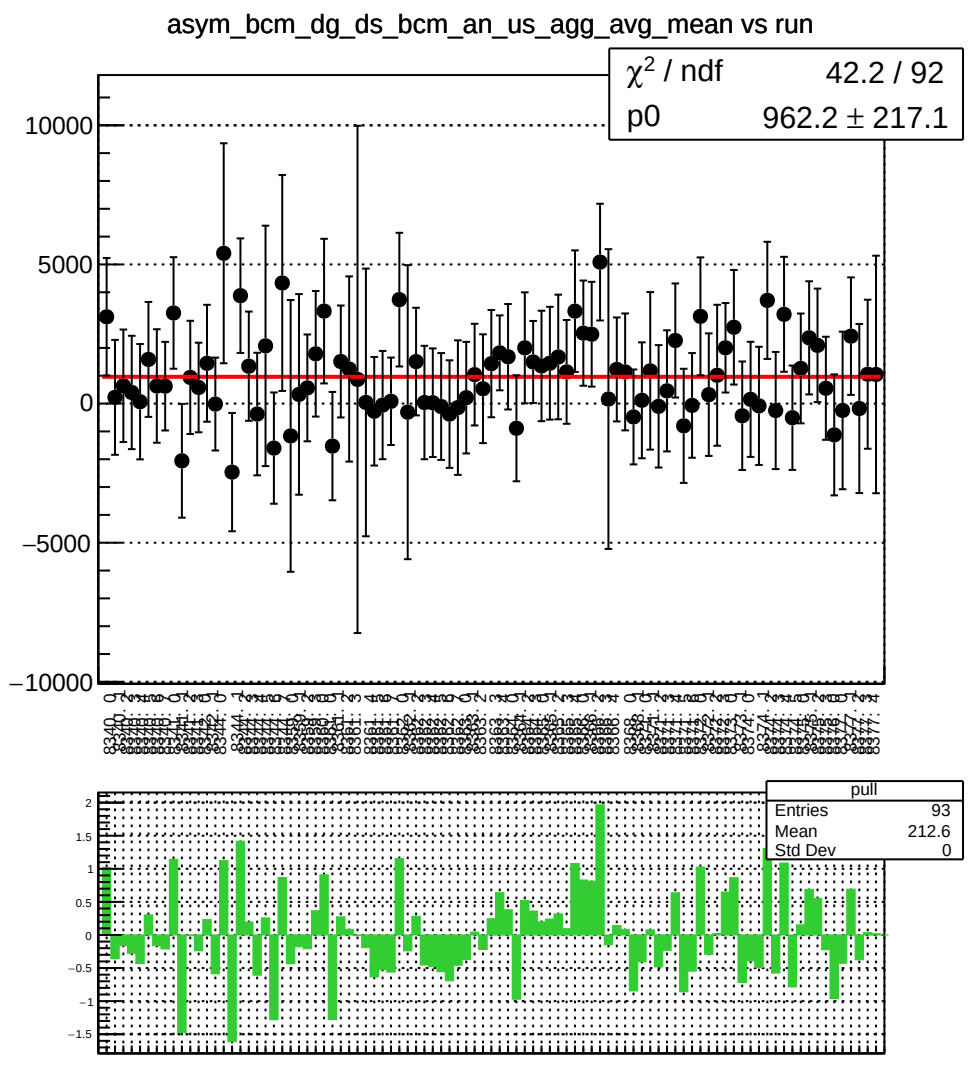

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 42.4 / 92
p0 904.8 ± 218.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 191.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

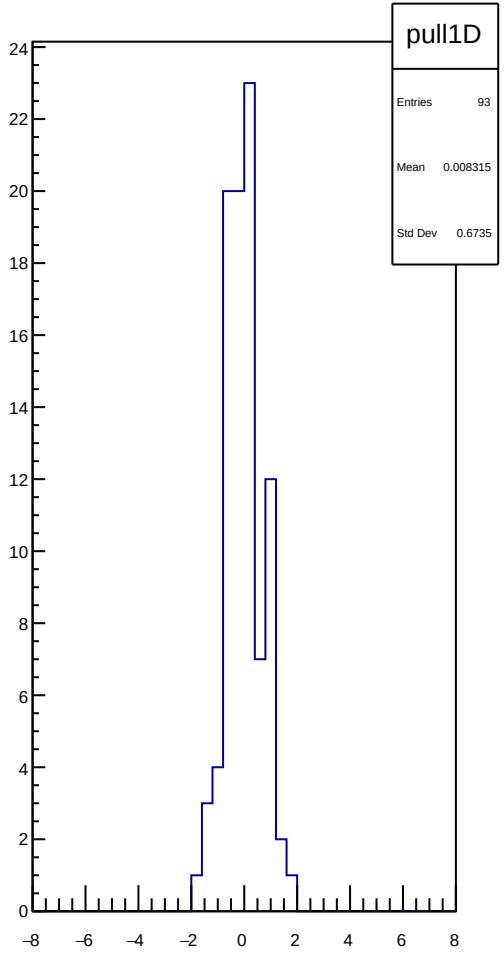

pull1D
Entries 93
Mean 0.007955
Std Dev 0.6752
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 7.759e+04 / 92
p0 204.4 ± 0.1543
900
800
700
600
500
400
300
200


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 89.38 / 92
p0 −52.64 ± 22.82
pull
Entries 93
Mean −308
Std Dev 0
pull1D
Entries 93
Mean 0.005705
Std Dev 0.9803


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1180 / 92
p0 21.84 ± 0.01613
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 42.2 / 92
p0 962.2 ± 217.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 212.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 93
Mean 0.008315
Std Dev 0.6735
24
22
20
18
16
14
12
10
8
6
4
2
0
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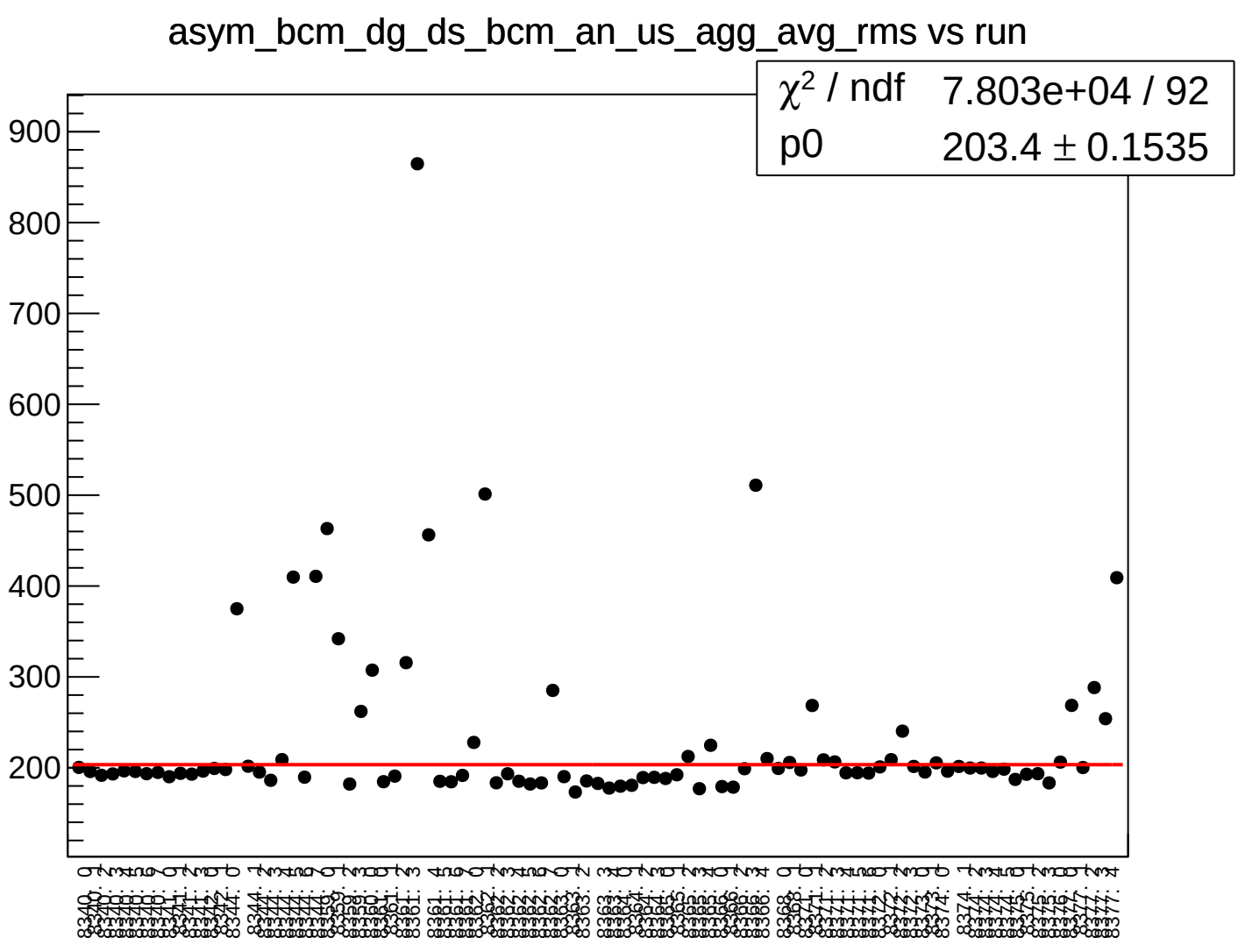
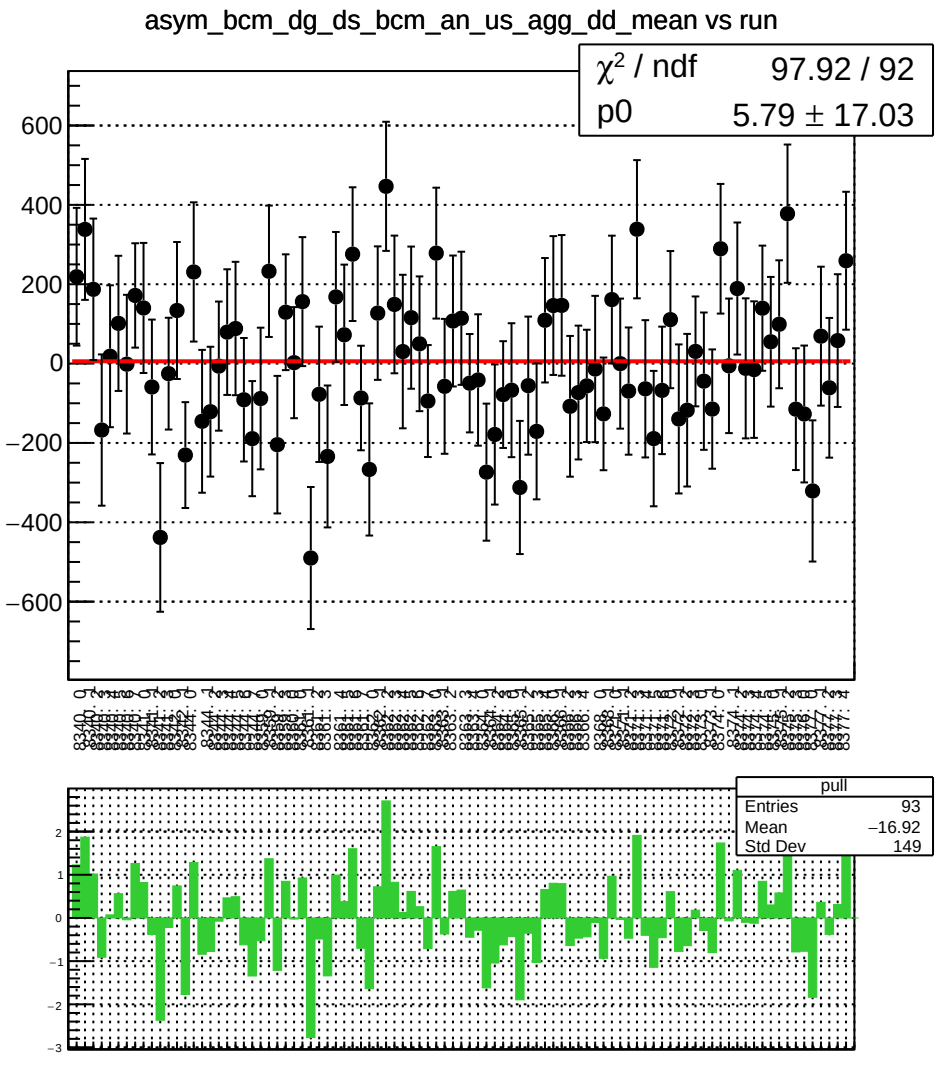
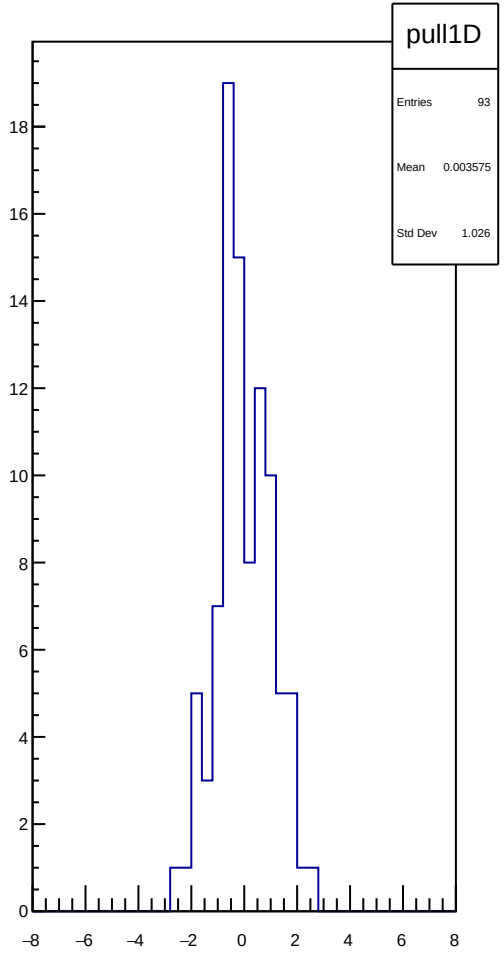
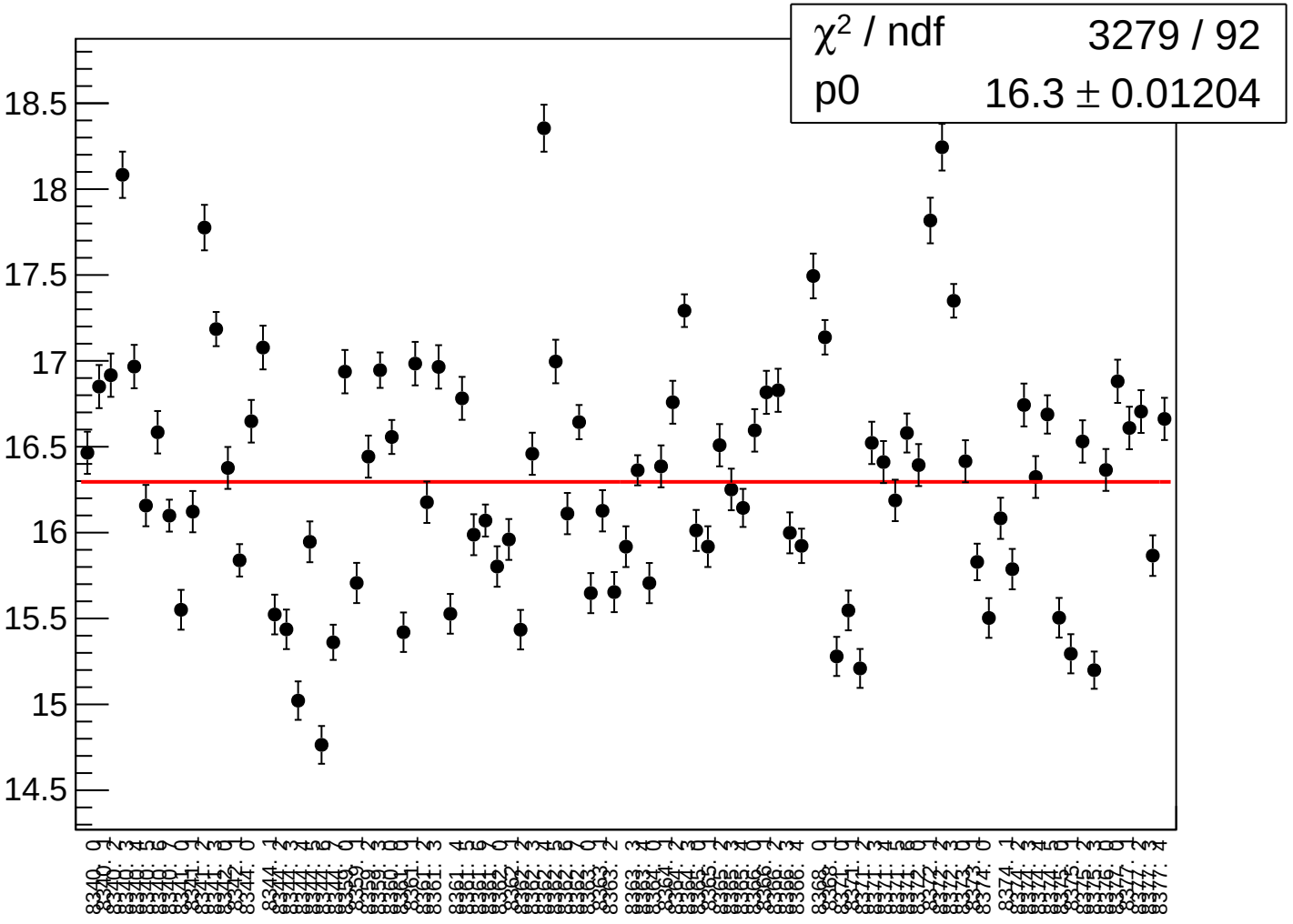
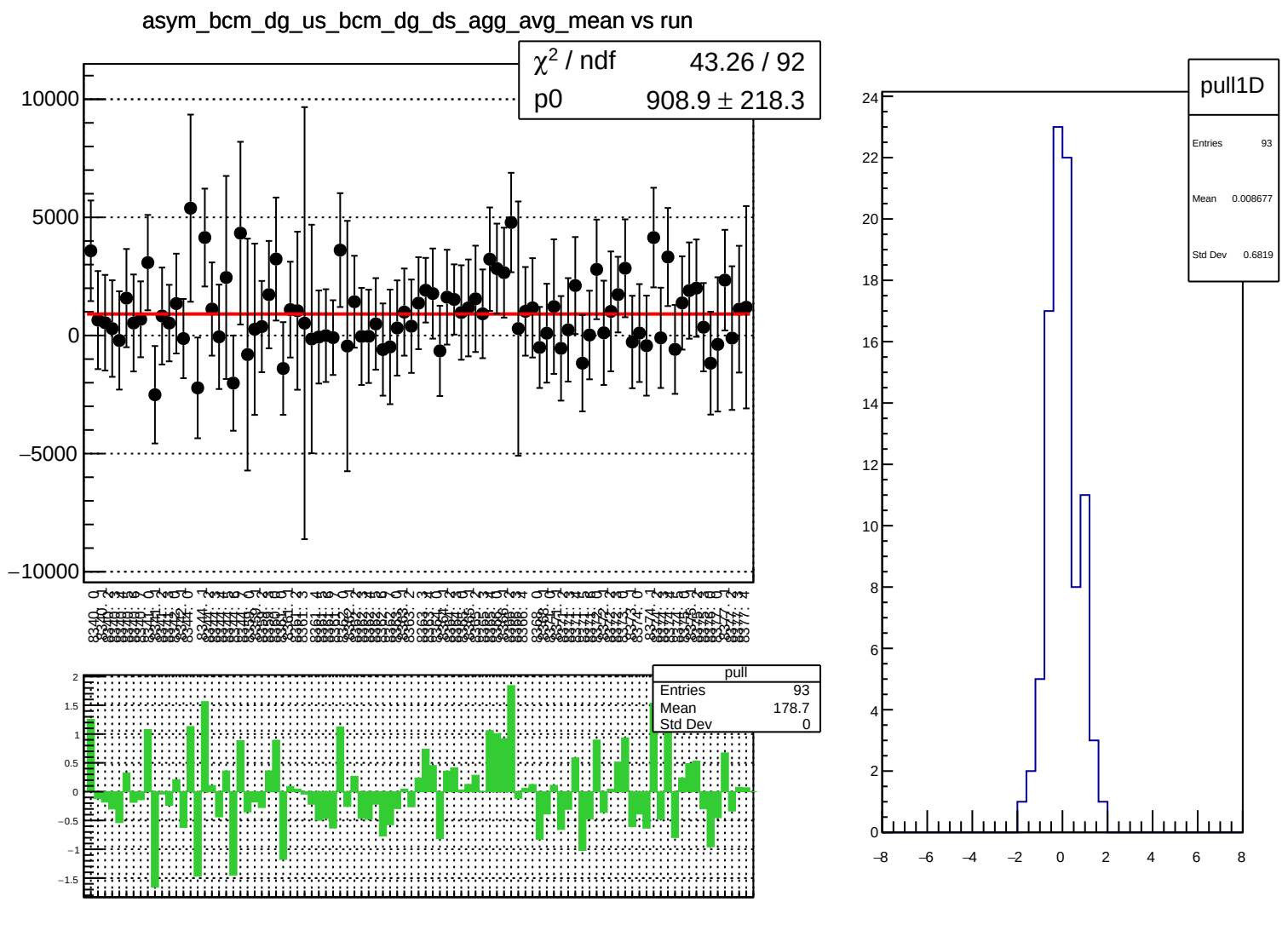
−6
−4
−2
0
2
4
6
8

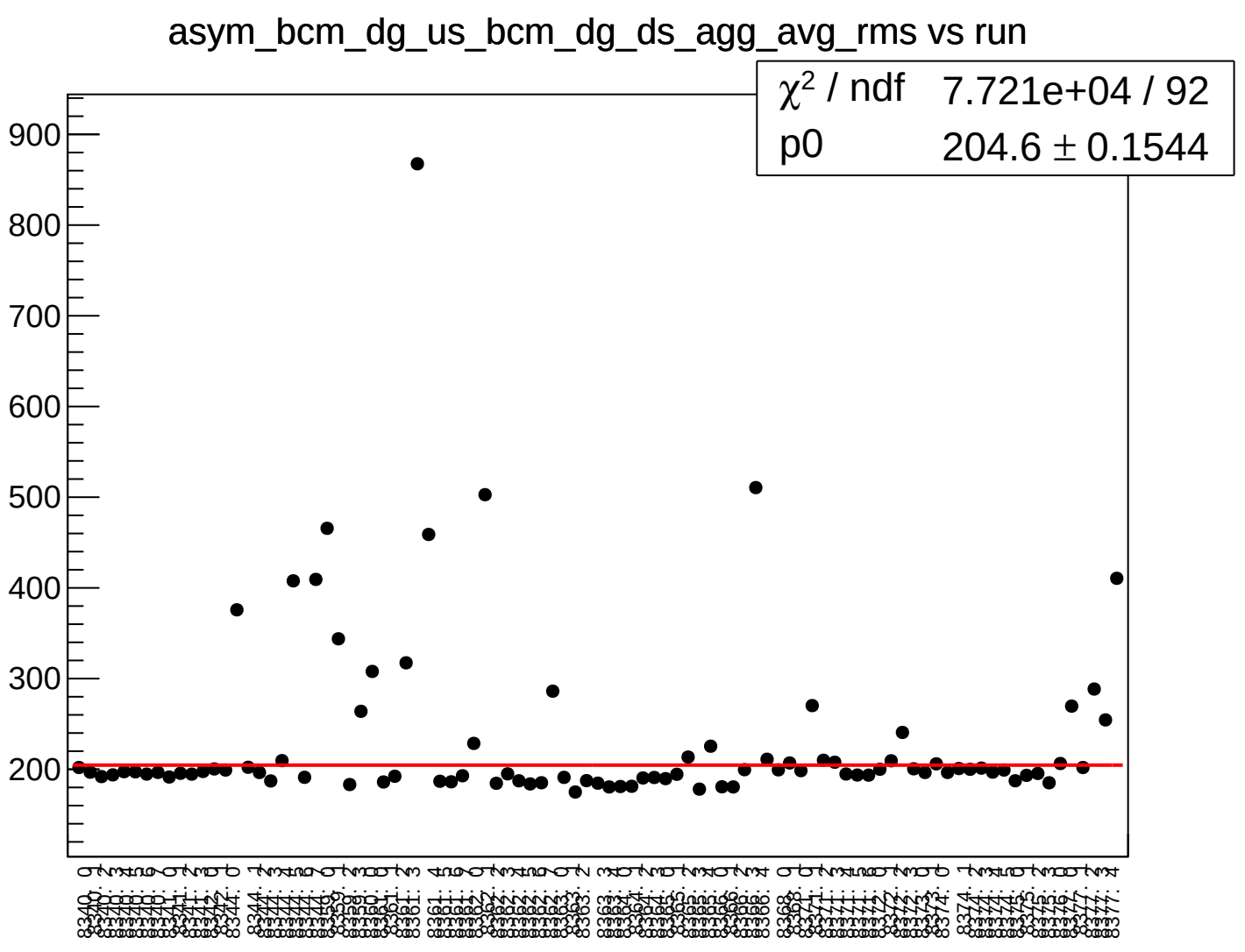

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.803e+04 / 92
p0 203.4 ± 0.1535
900
800
700
600
500
400
300
200

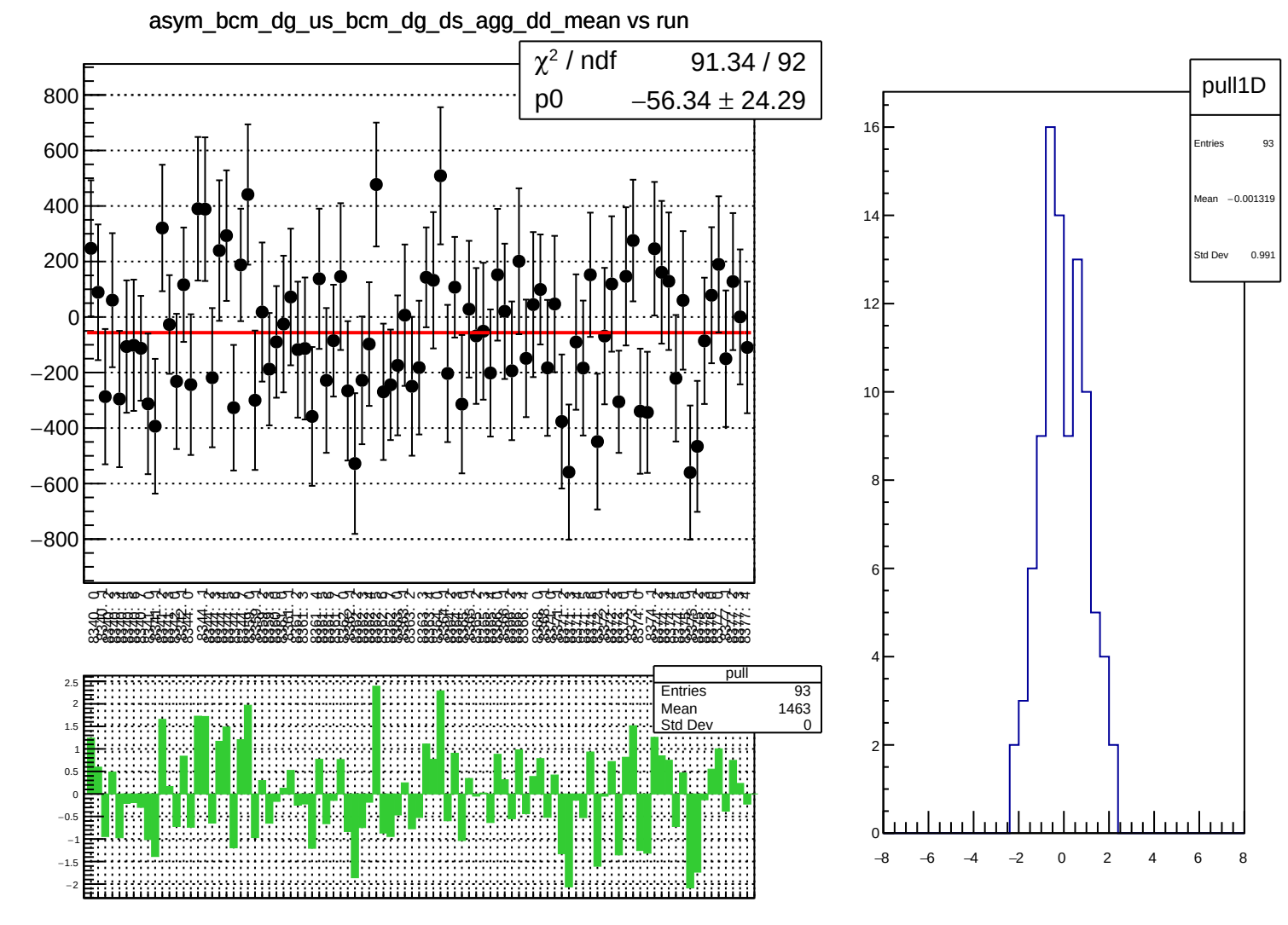

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.92 / 92
p0 5.79 ± 17.03
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −16.92
Std Dev 149
2
1
0
−1
−2
−3

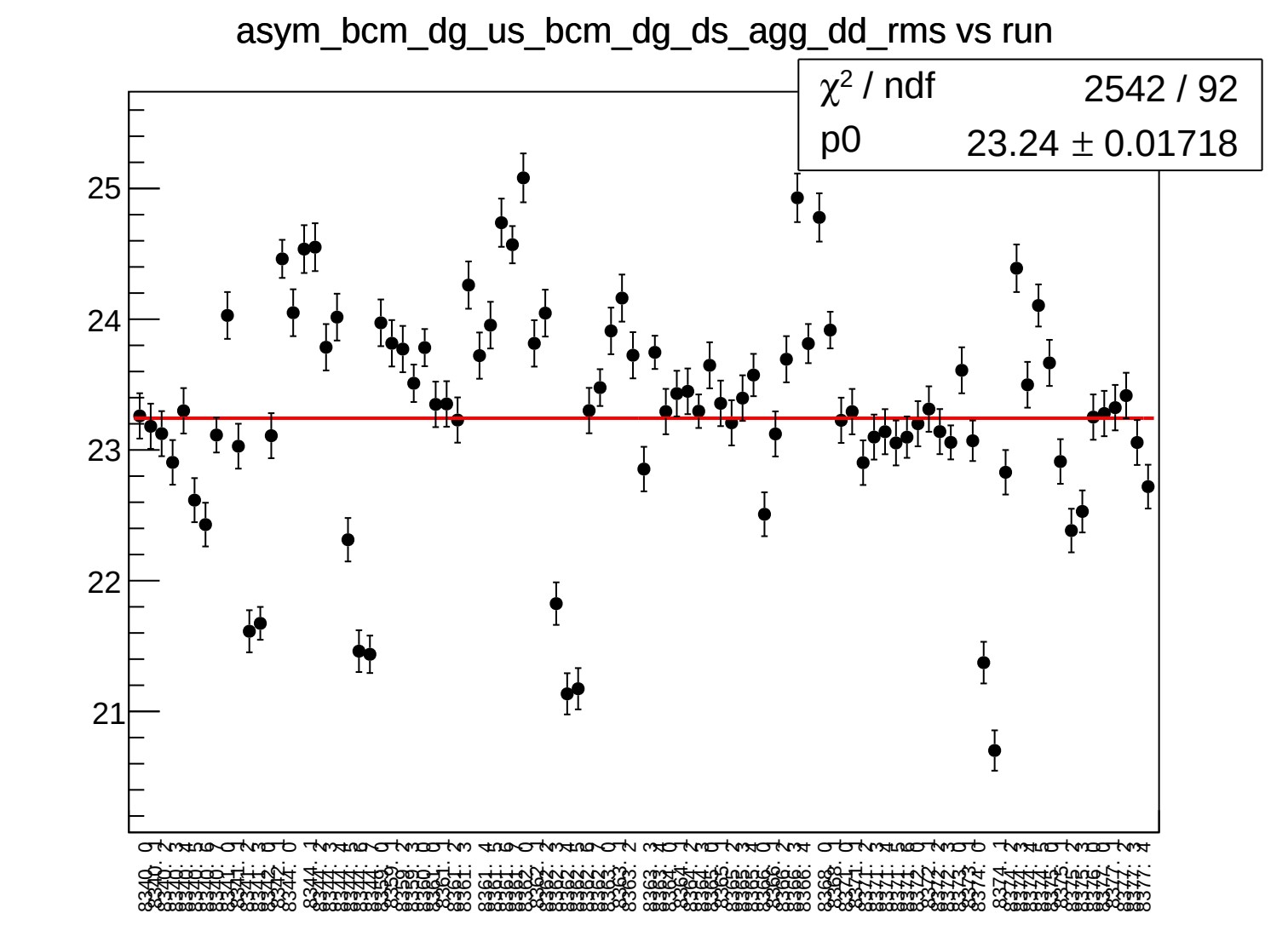

pull1D
Entries 93
Mean 0.003575
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

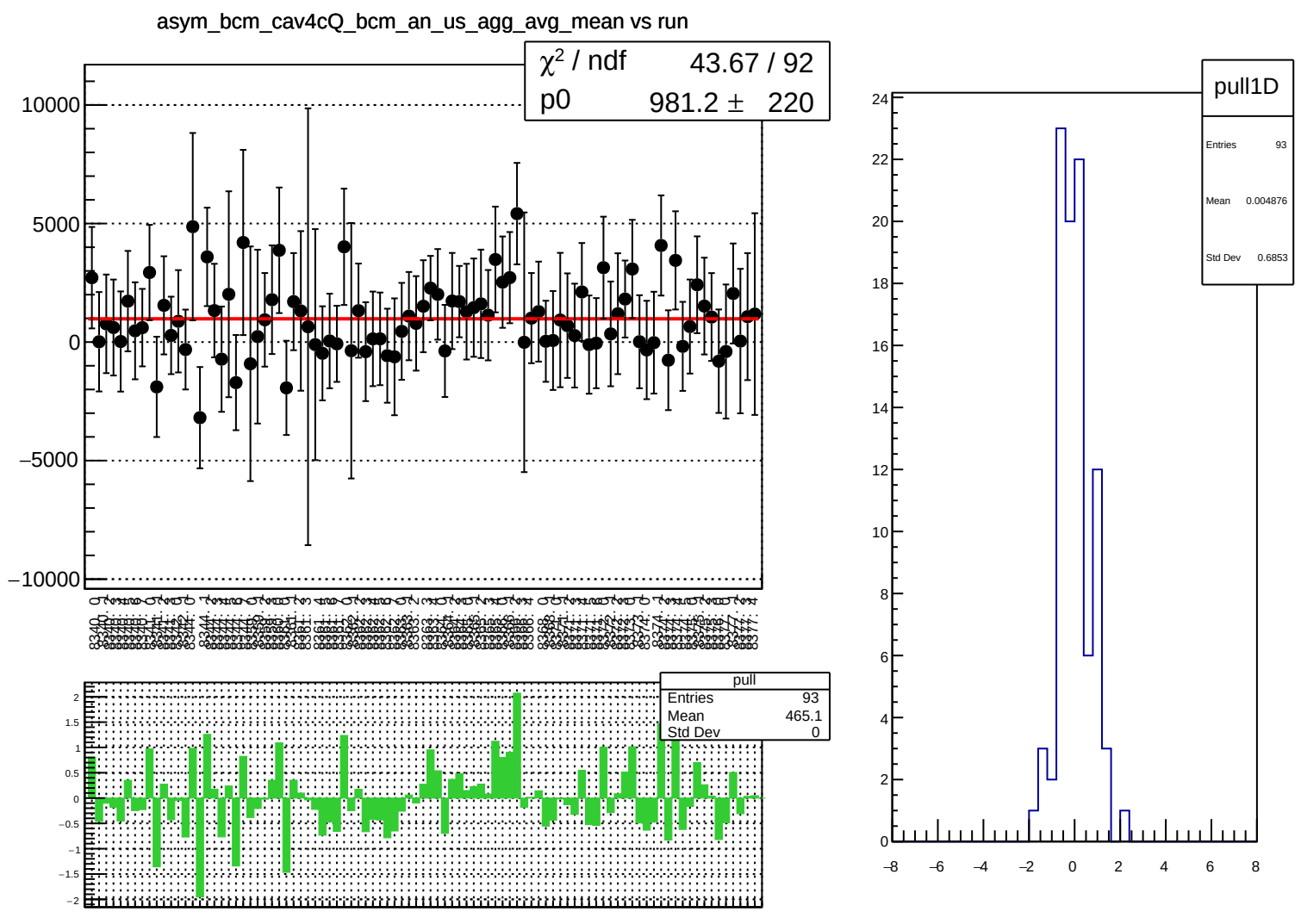

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3279 / 92
p0 16.3 ± 0.01204
18.5
18
17.5
17
16.5
16
15.5
15
14.5

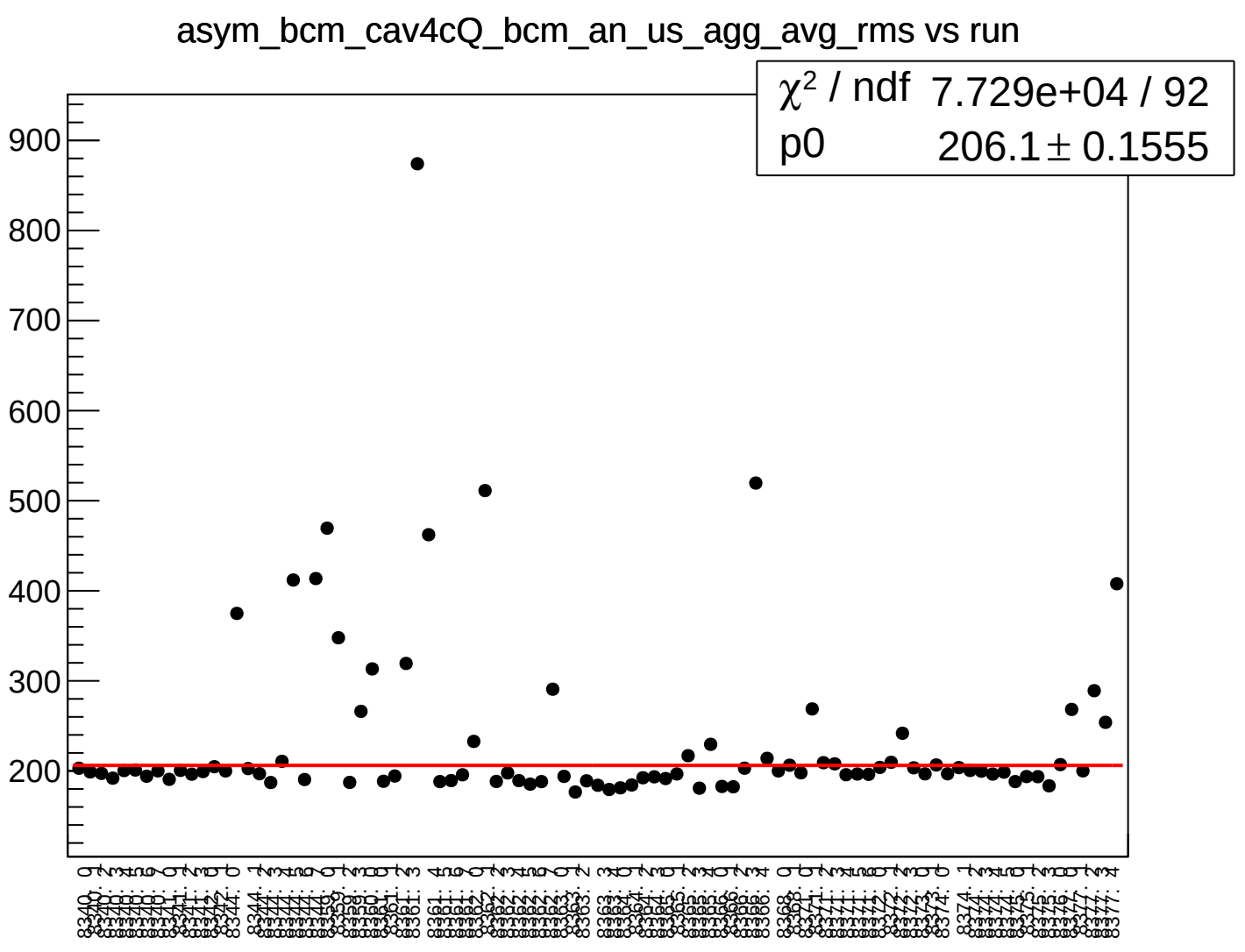

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 43.26 / 92
p0 908.9 ± 218.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 178.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.008677
Std Dev 0.6819
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

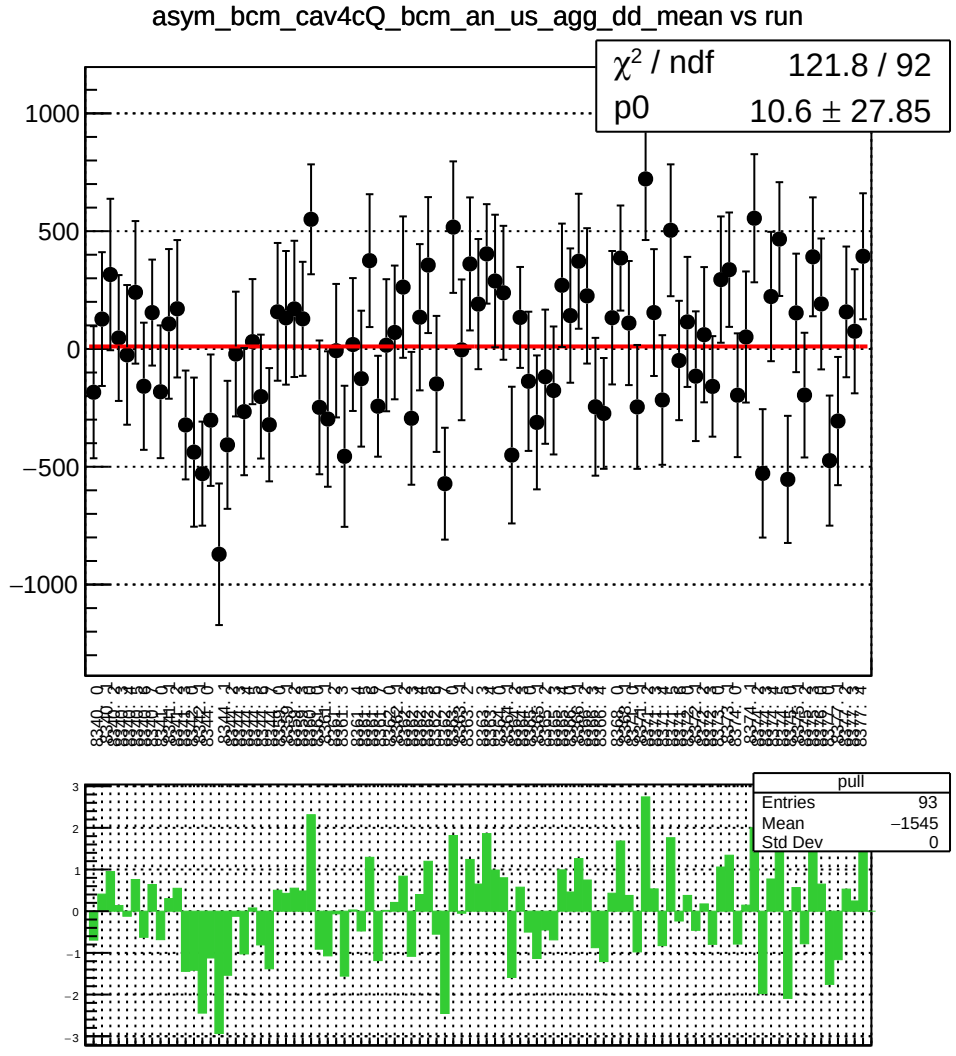

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.721e+04 / 92
p0 204.6 ± 0.1544
900
800
700
600
500
400
300
200

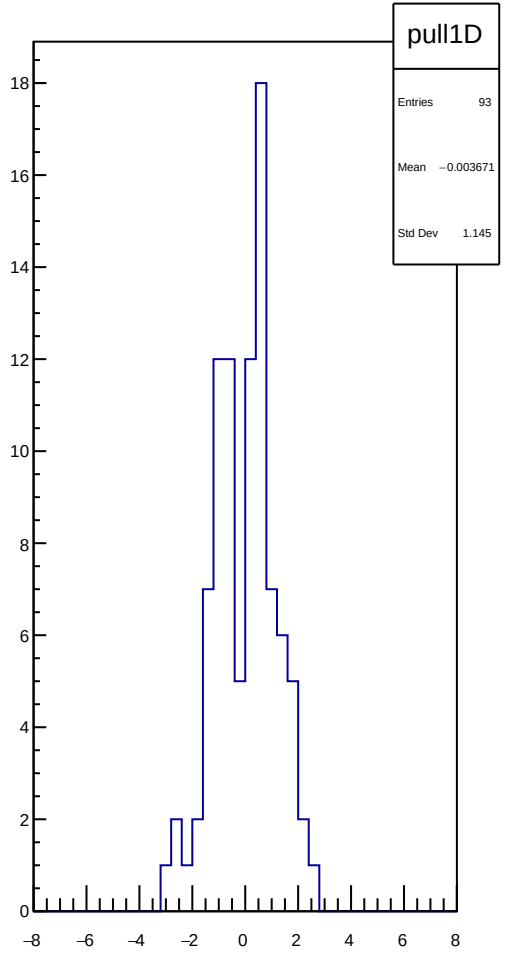

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 91.34 / 92
p0 −56.34 ± 24.29
pull
Entries 93
Mean 1463
Std Dev 0
pull1D
Entries 93
Mean −0.001319
Std Dev 0.991

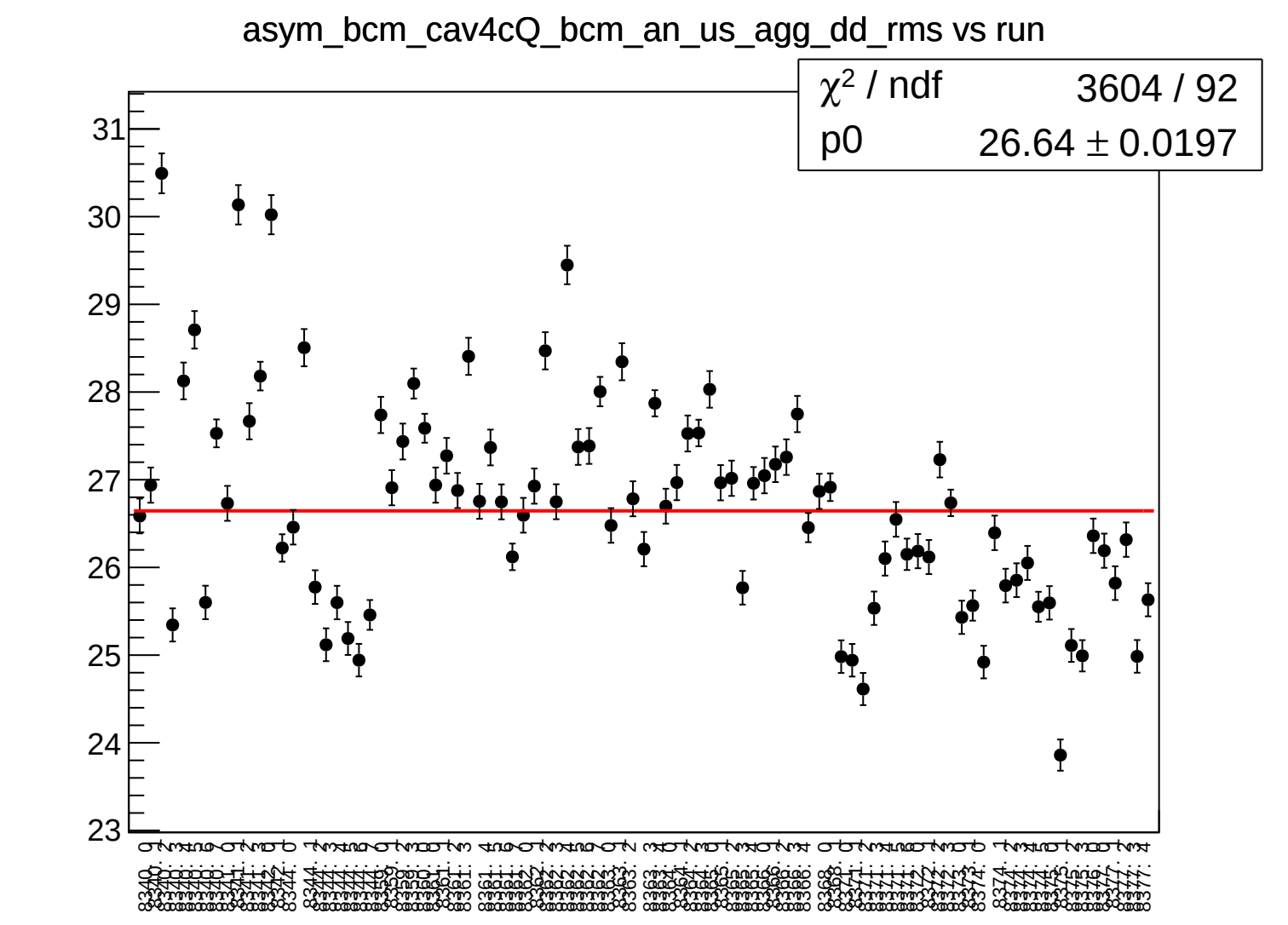

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2542 / 92
p0 23.24 ± 0.01718
25
24
23
22
21

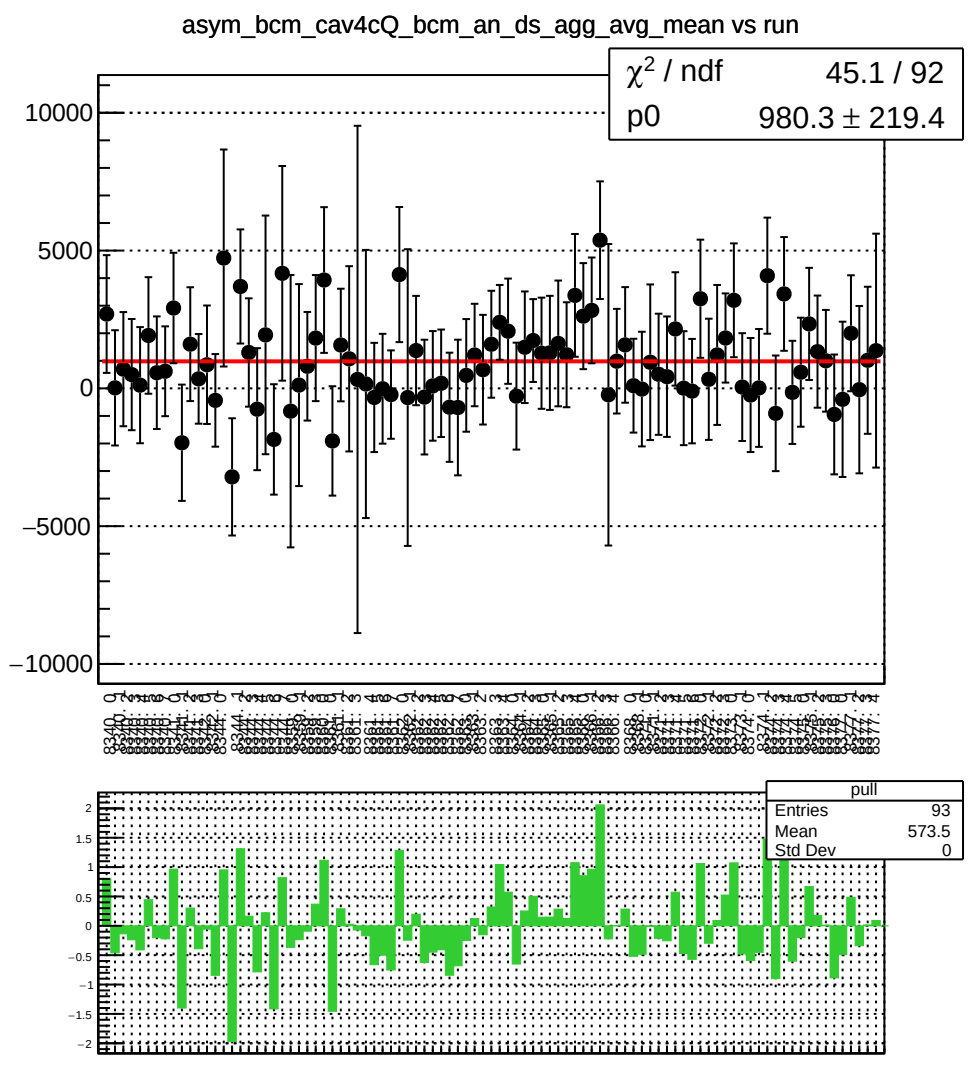

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 43.67 / 92
p0 981.2 ± 220
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 465.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.004876
Std Dev 0.6853
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

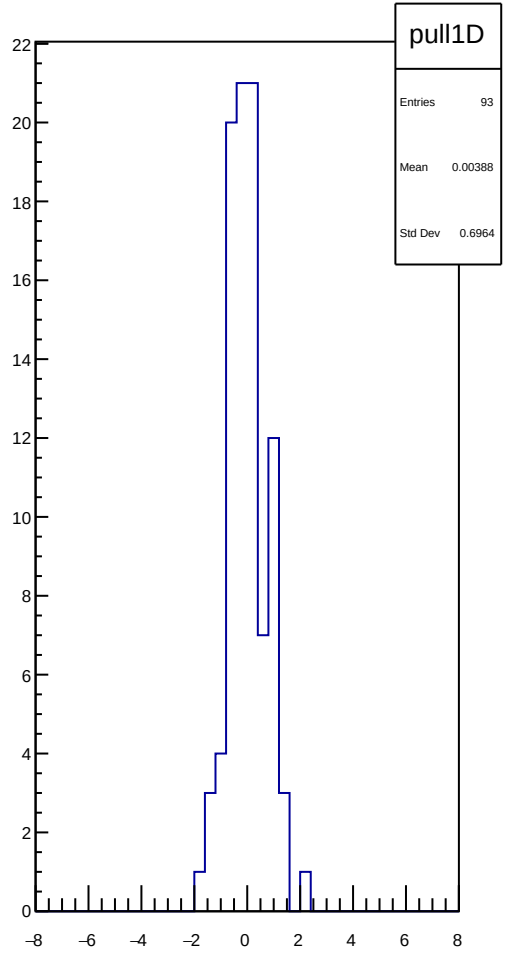

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7.729e+04 / 92
p0 206.1 ± 0.1555
900
800
700
600
500
400
300
200

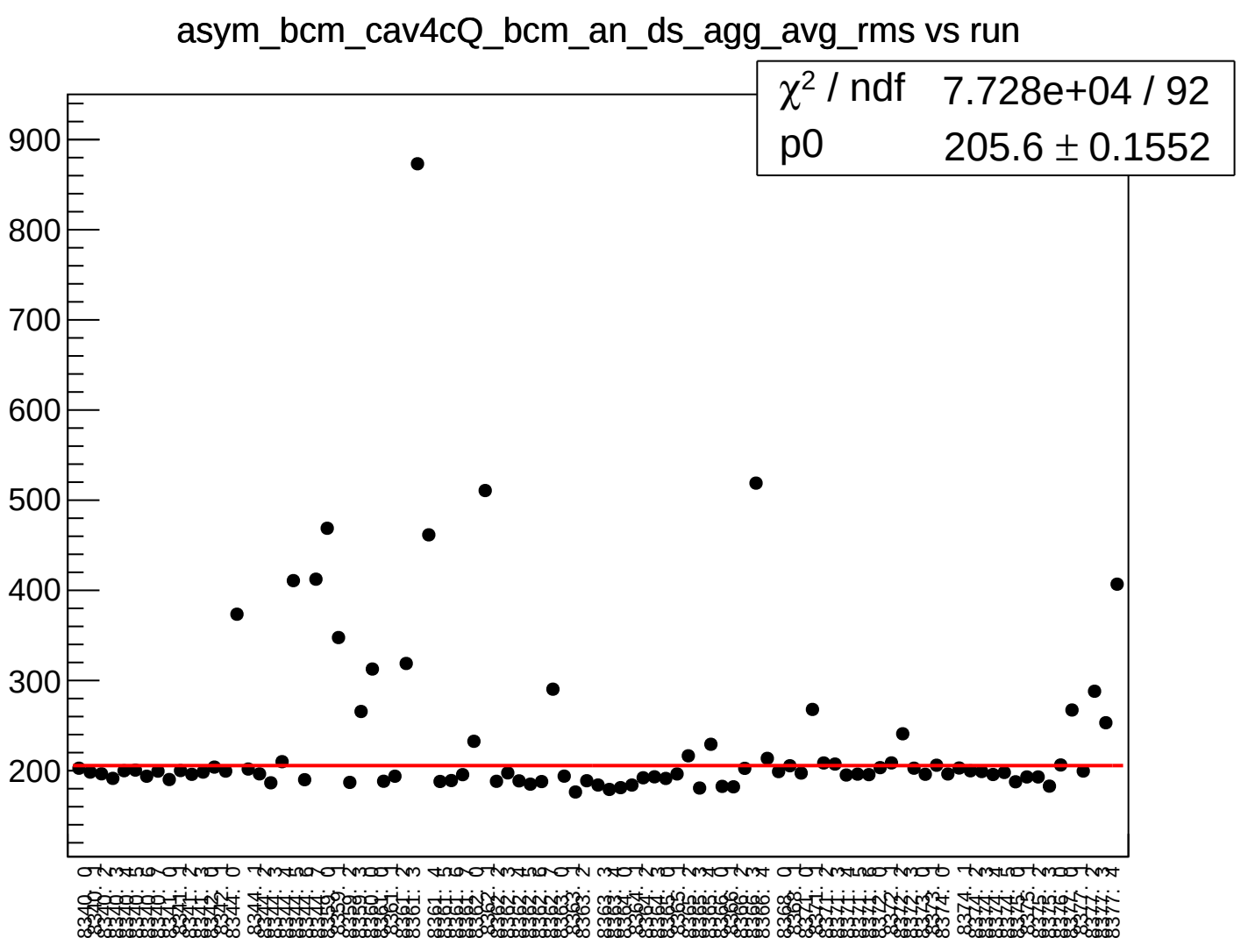

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 121.8 / 92
p0 10.6 ± 27.85
1000
500
0
−500
−1000
pull
Entries 93
Mean −1545
Std Dev 0
3
2
1
0
−1
−2
−3

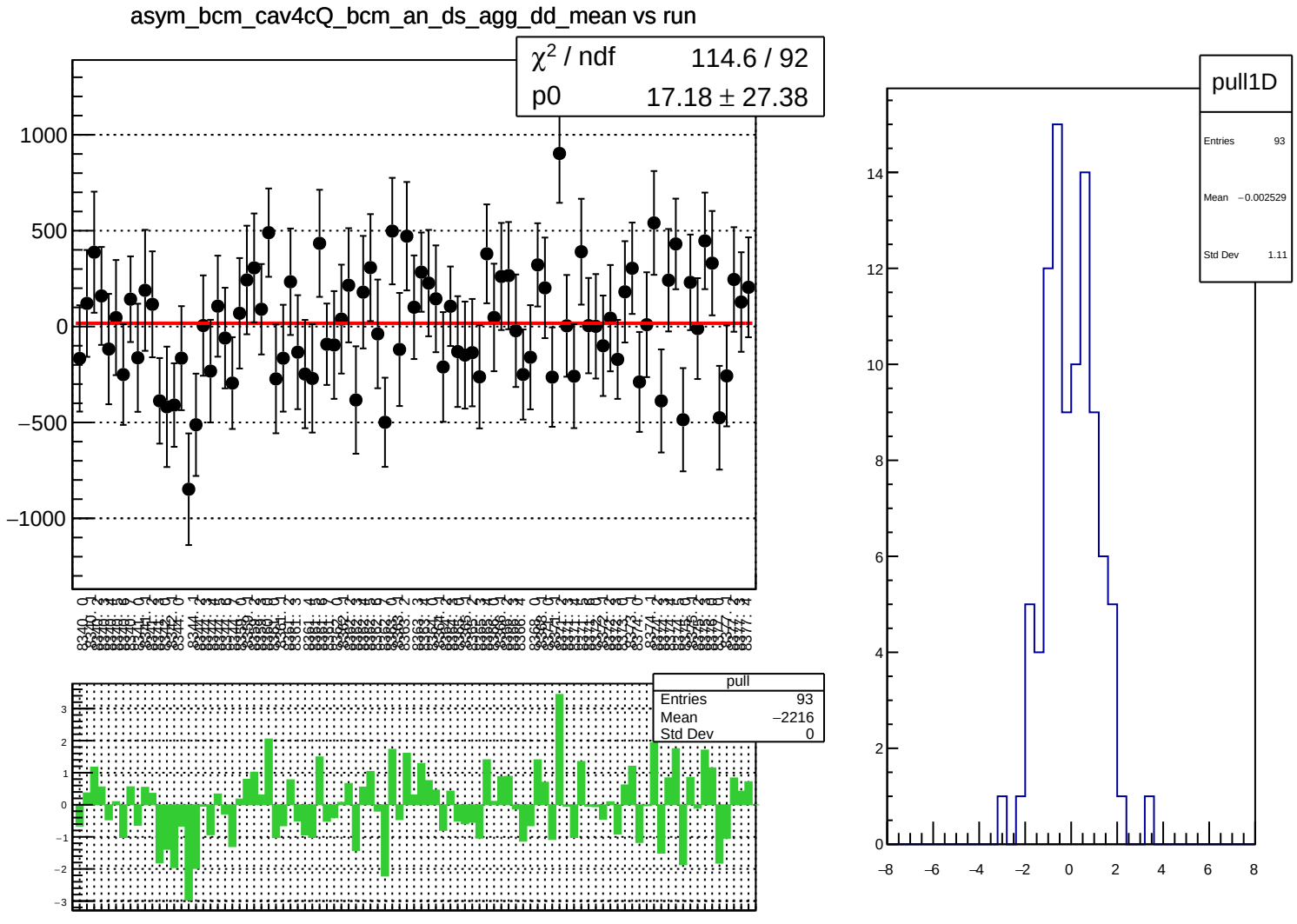

pull1D
Entries 93
Mean −0.003671
Std Dev 1.145
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

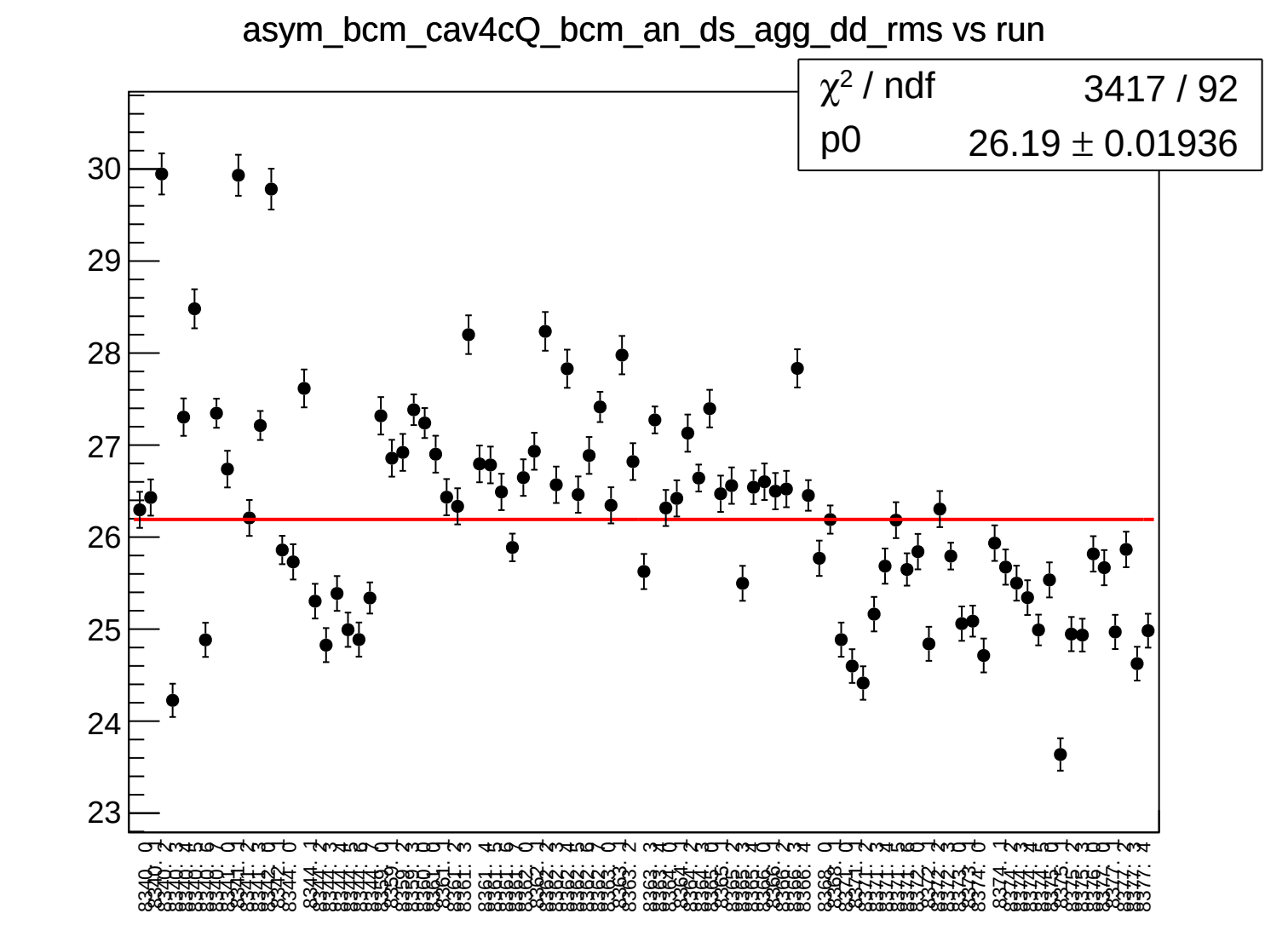

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3604 / 92
p0 26.64 ± 0.0197
31
30
29
28
27
26
25
24
23

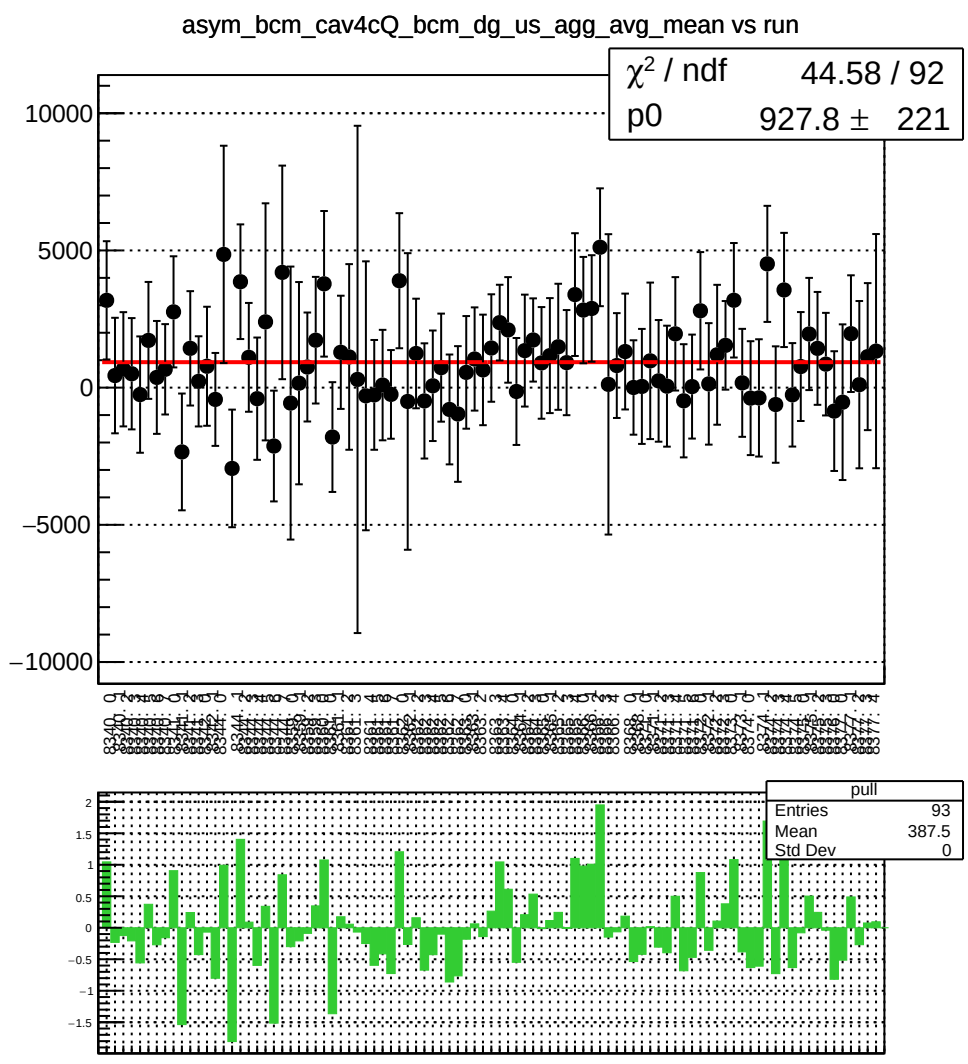

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 45.1 / 92
p0 980.3 ± 219.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 573.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

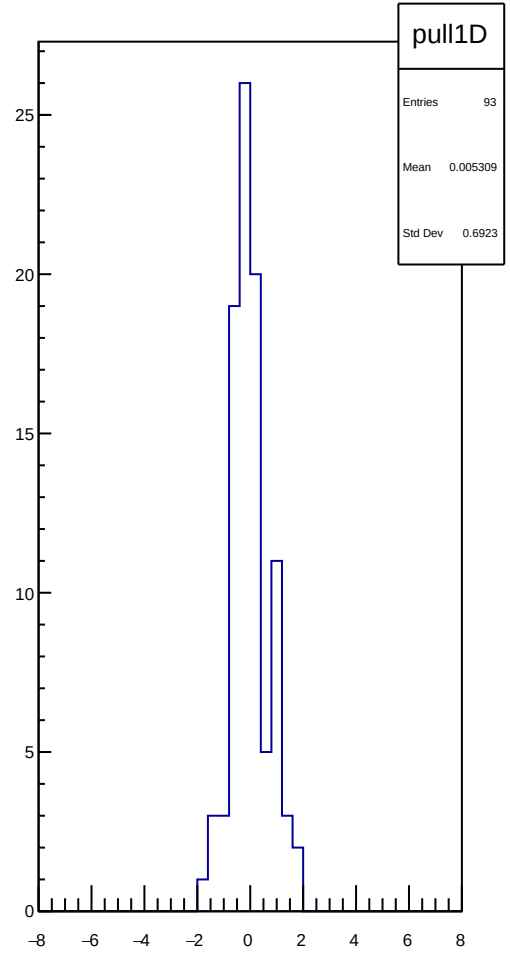

pull1D
Entries 93
Mean 0.00388
Std Dev 0.6964
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

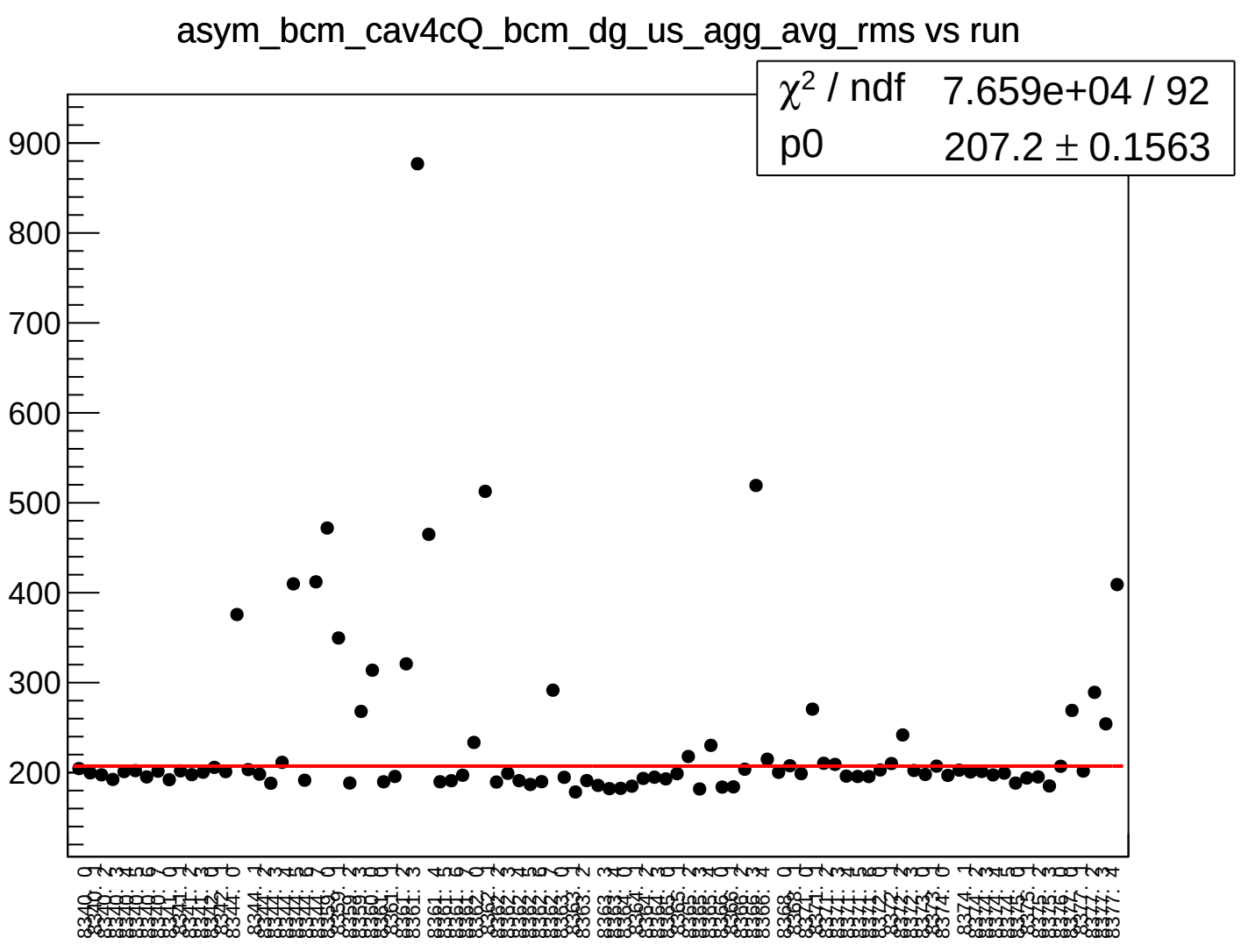

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7.728e+04 / 92
p0 205.6 ± 0.1552
900
800
700
600
500
400
300
200

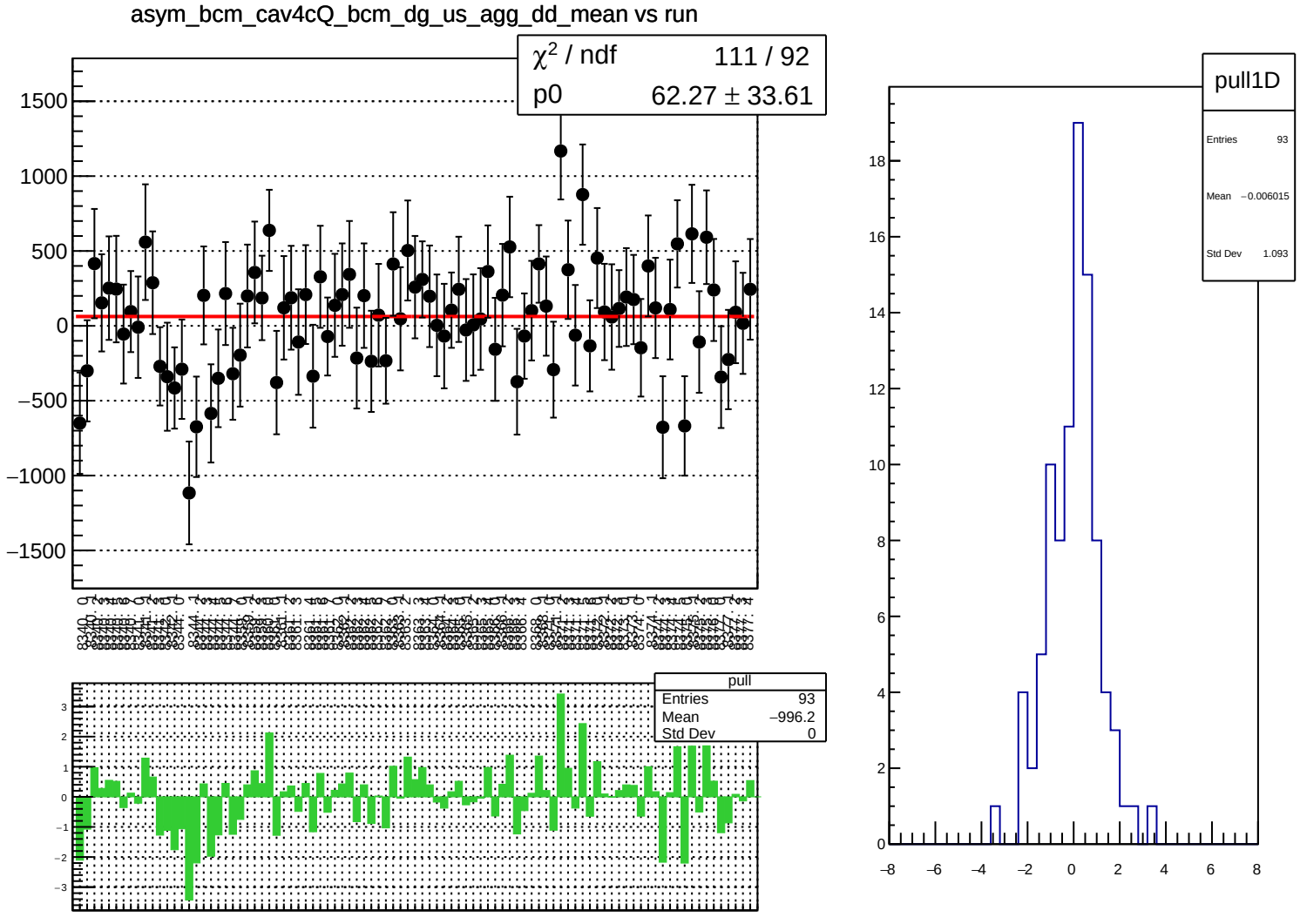

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.6 / 92
p0 17.18 ± 27.38
1000
500
0
−500
−1000
pull
Entries 93
Mean −2216
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002529
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

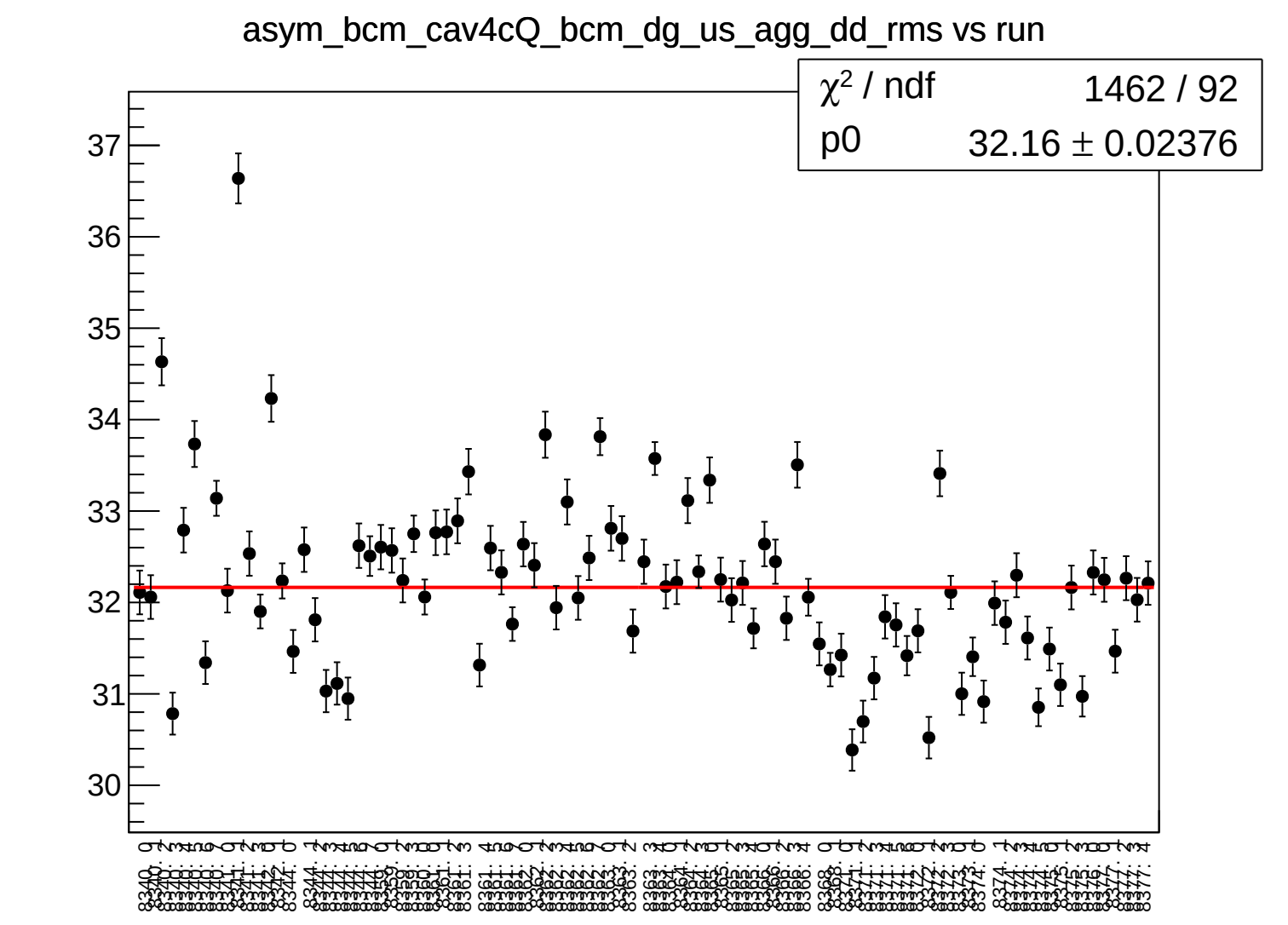

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3417 / 92
p0 26.19 ± 0.01936
30
29
28
27
26
25
24
23

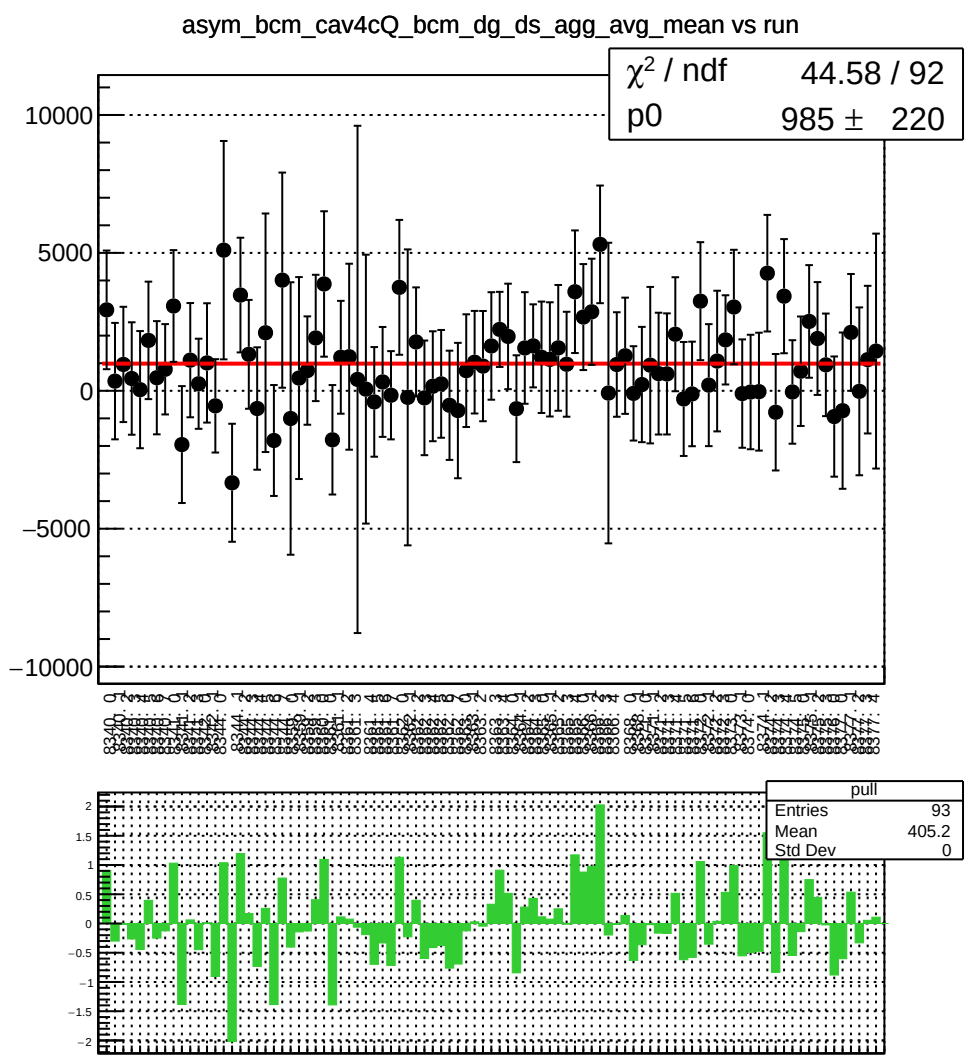

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 44.58 / 92
p0 927.8 ± 221
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 387.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

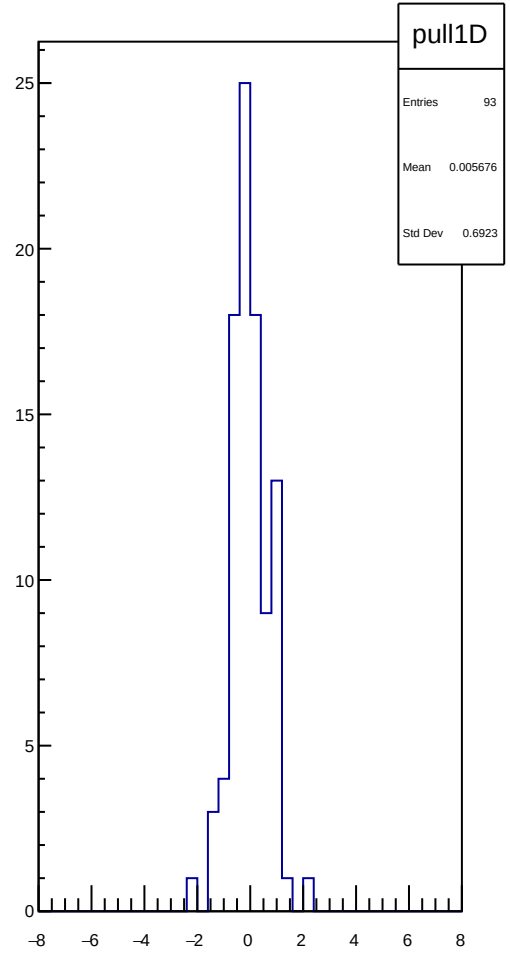

pull1D
Entries 93
Mean 0.005309
Std Dev 0.6923
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

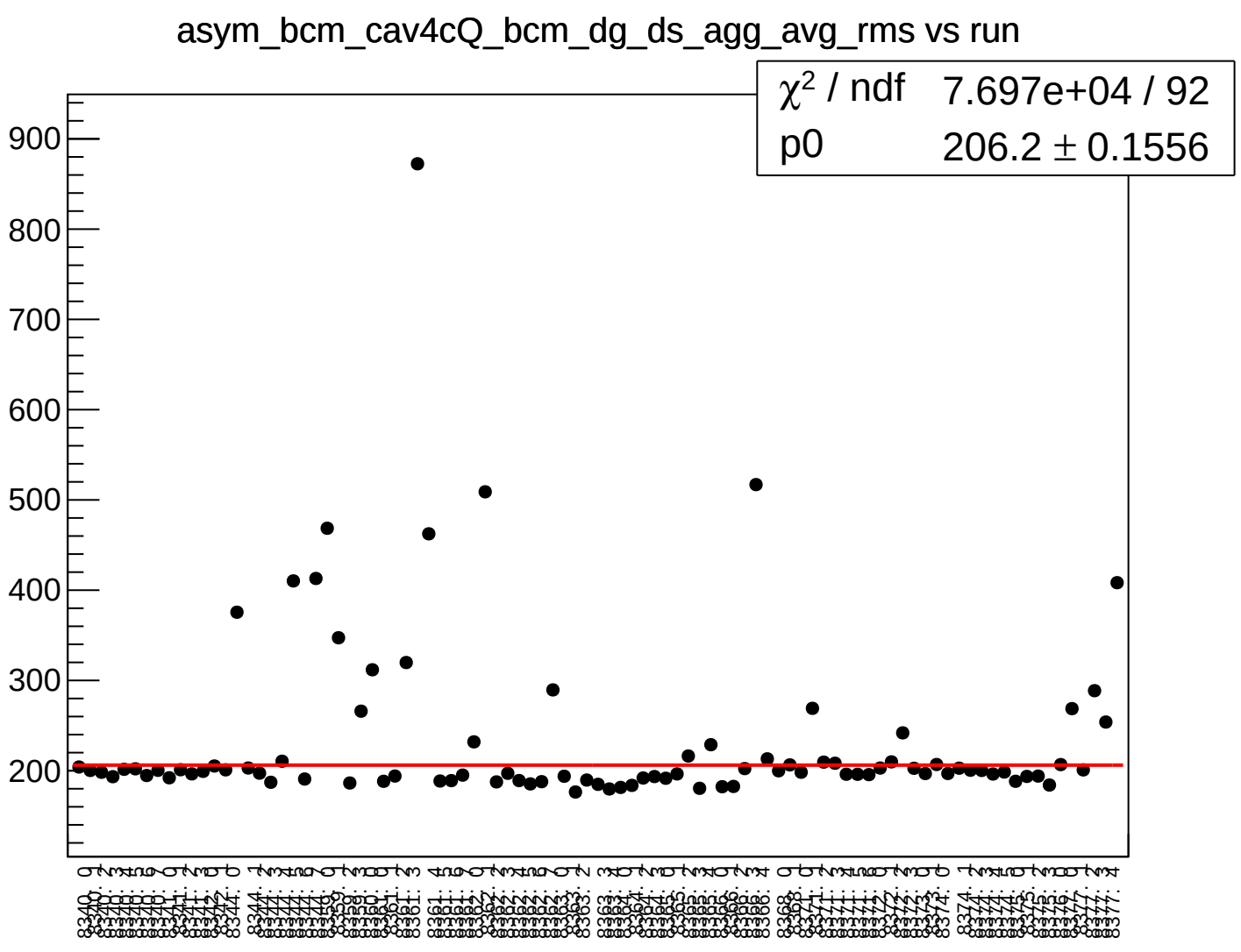

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7.659e+04 / 92
p0 207.2 ± 0.1563
900
800
700
600
500
400
300
200

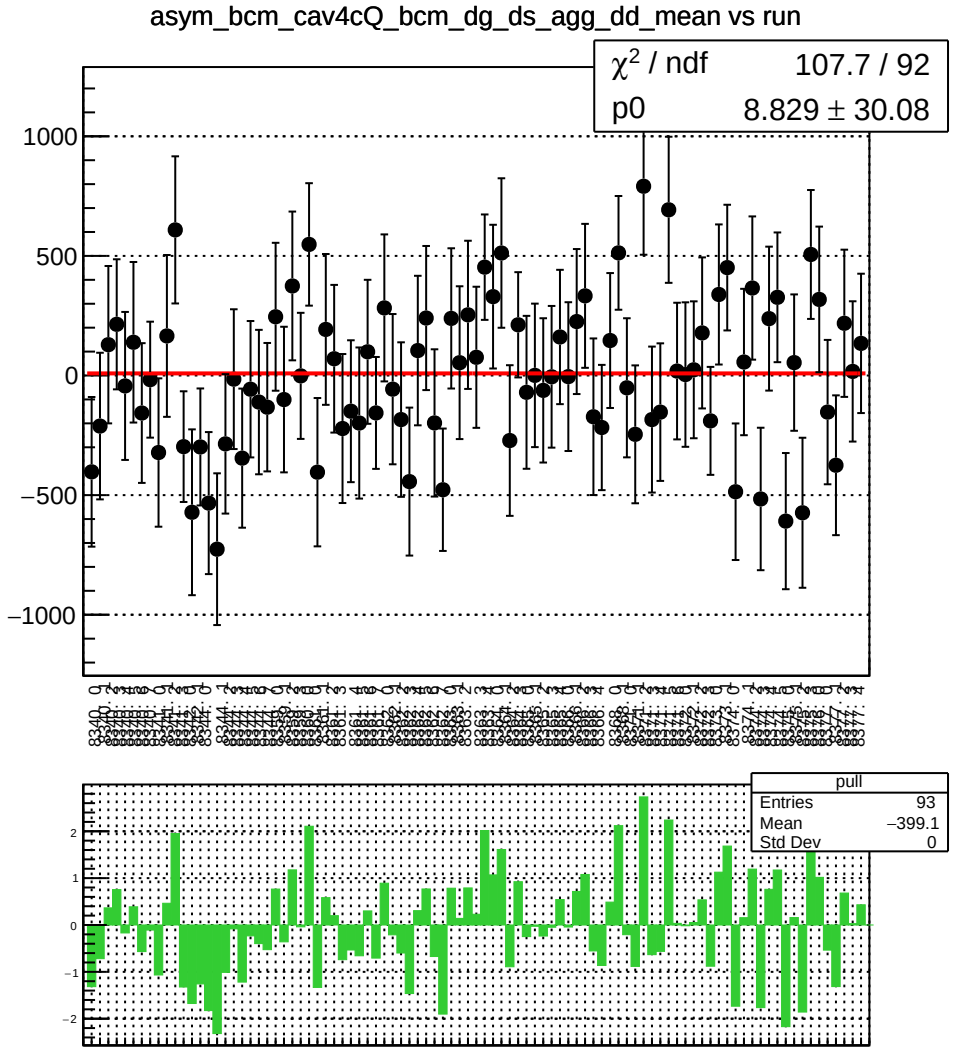

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 111 / 92
p0 62.27 ± 33.61
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −996.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.006015
Std Dev 1.093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

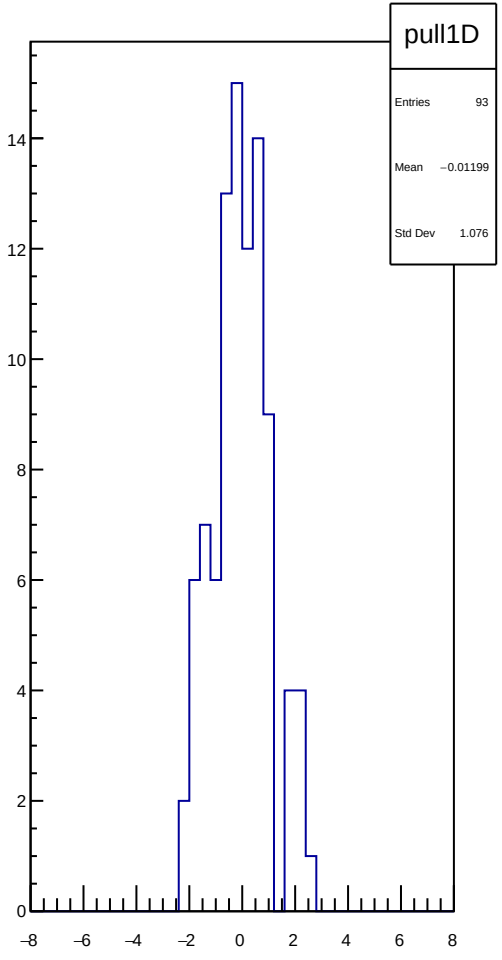

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1462 / 92
p0 32.16 ± 0.02376
37
36
35
34
33
32
31
30

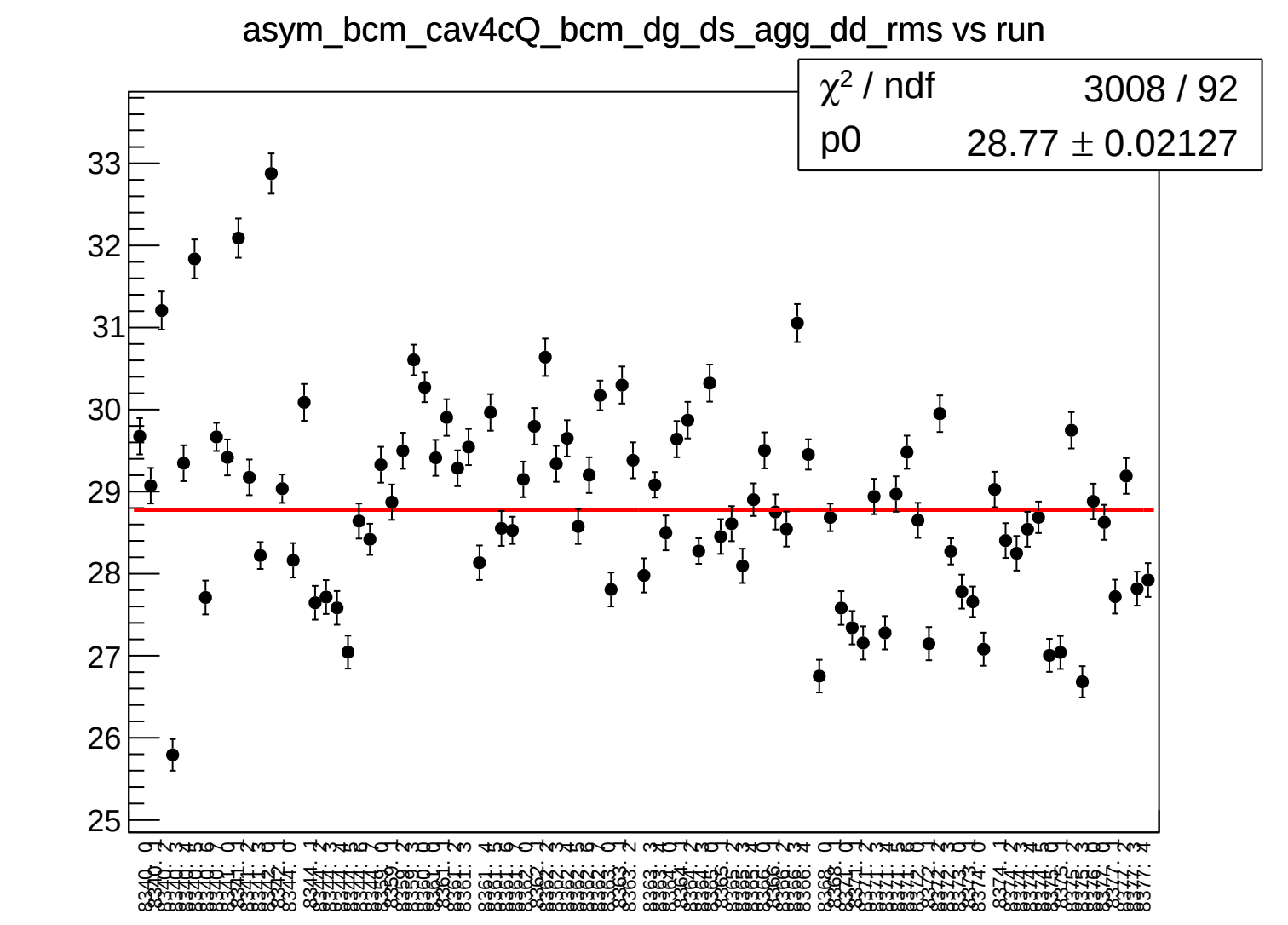

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 44.58 / 92
p0 985 ± 220
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 405.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

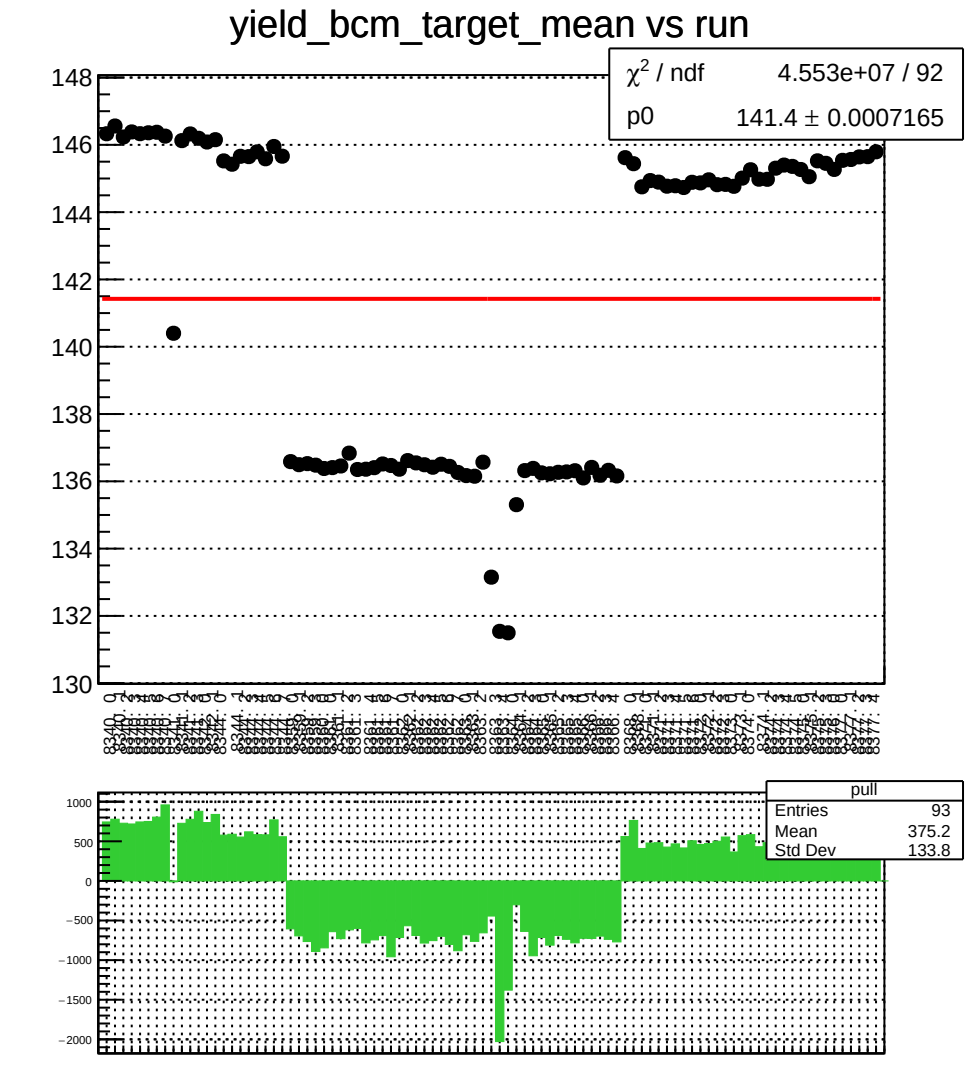

pull1D
Entries 93
Mean 0.005676
Std Dev 0.6923
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

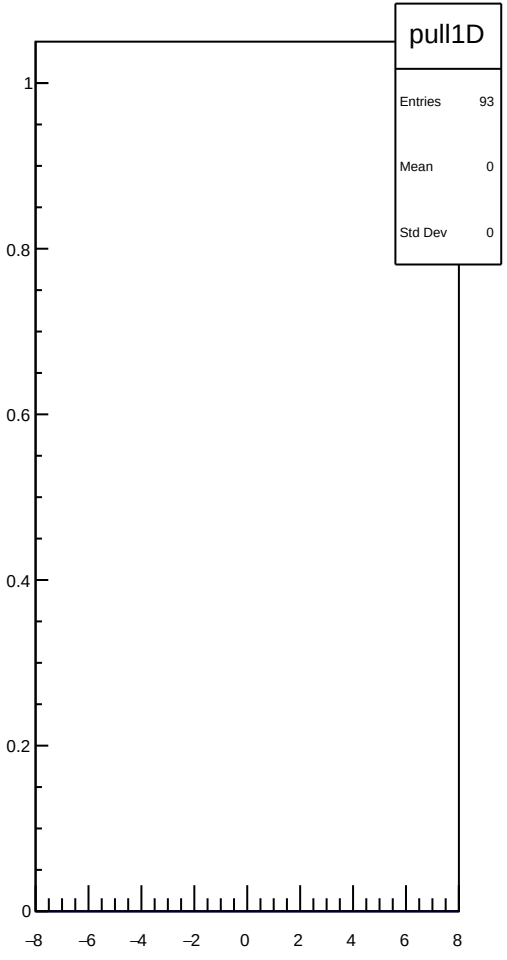

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7.697e+04 / 92
p0 206.2 ± 0.1556
900
800
700
600
500
400
300
200

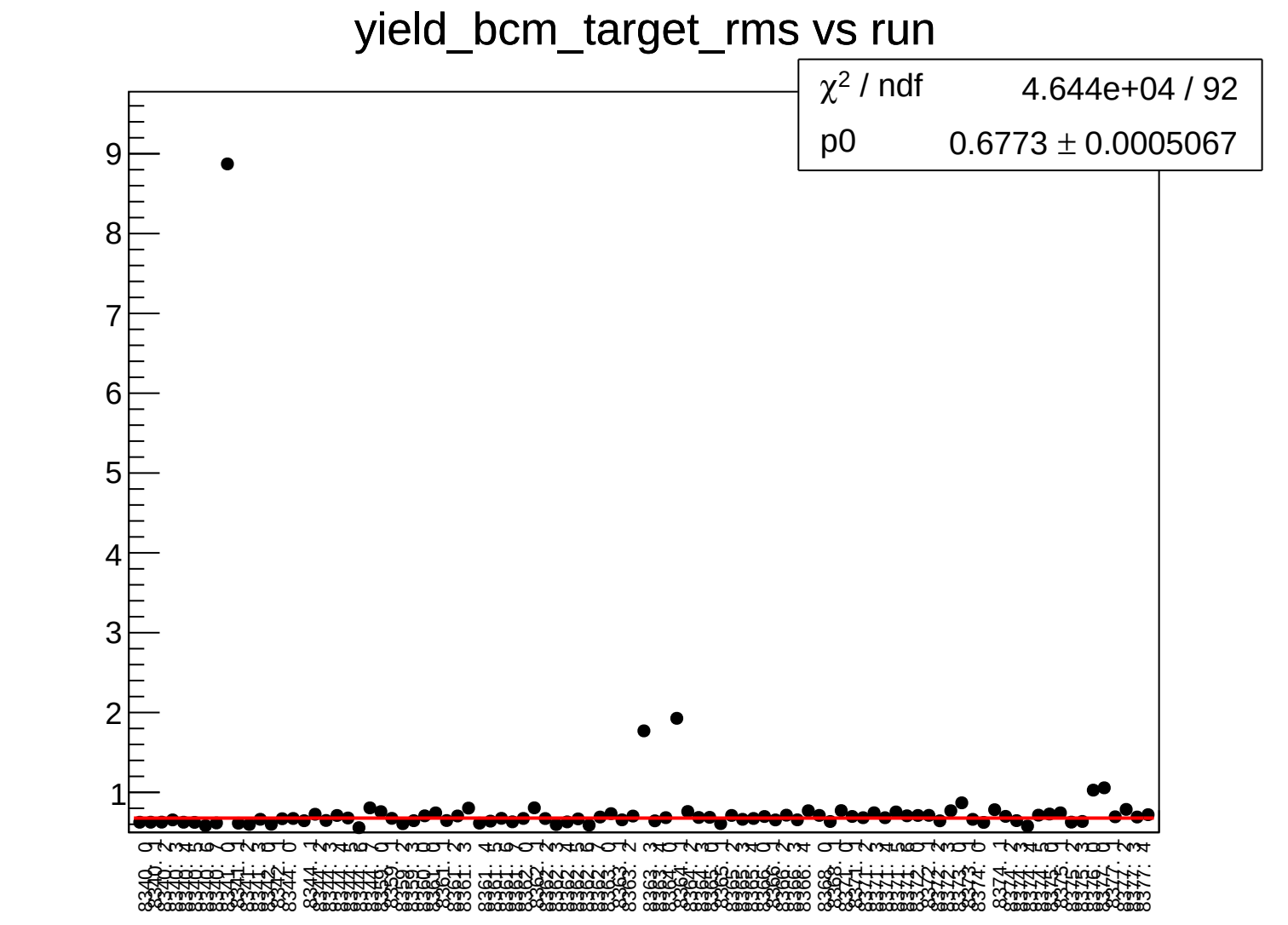

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 107.7 / 92
p0 8.829 ± 30.08
1000
500
0
−500
−1000
pull
Entries 93
Mean −399.1
Std Dev 0
2
1
0
−1
−2

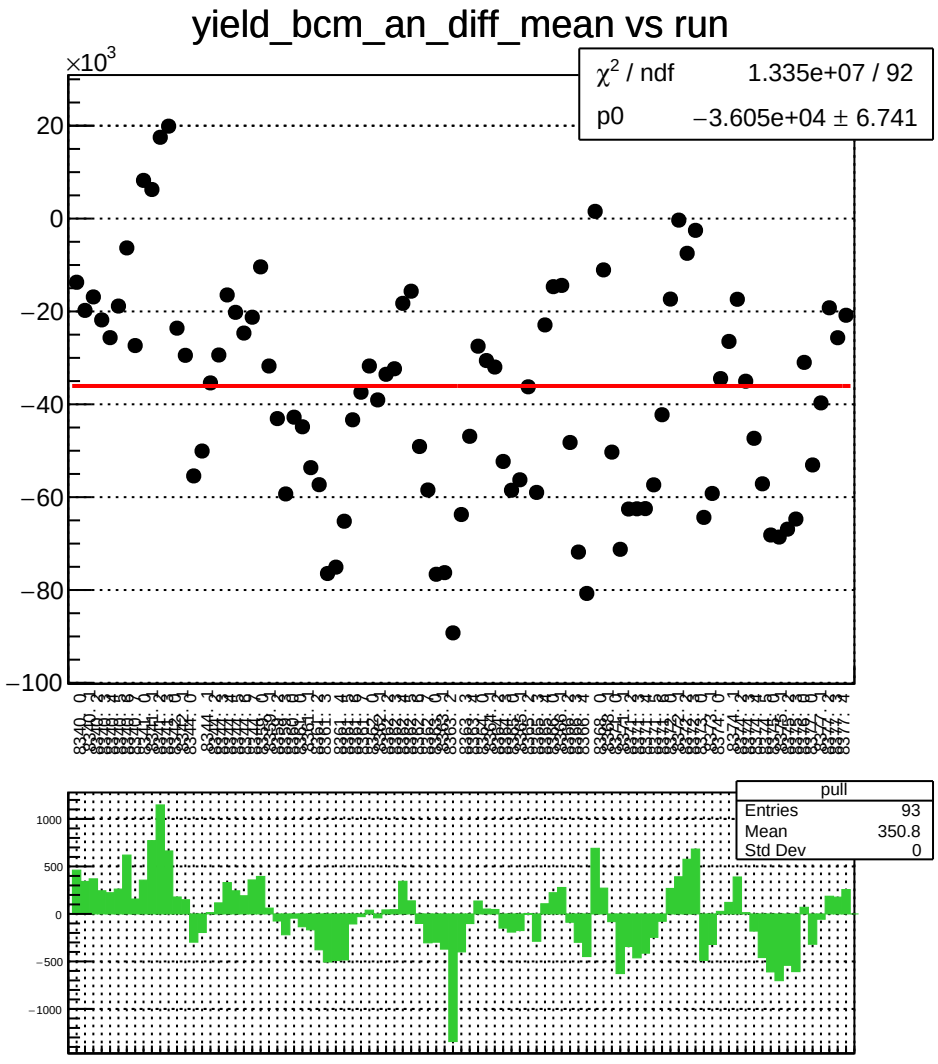

pull1D
Entries 93
Mean −0.01199
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

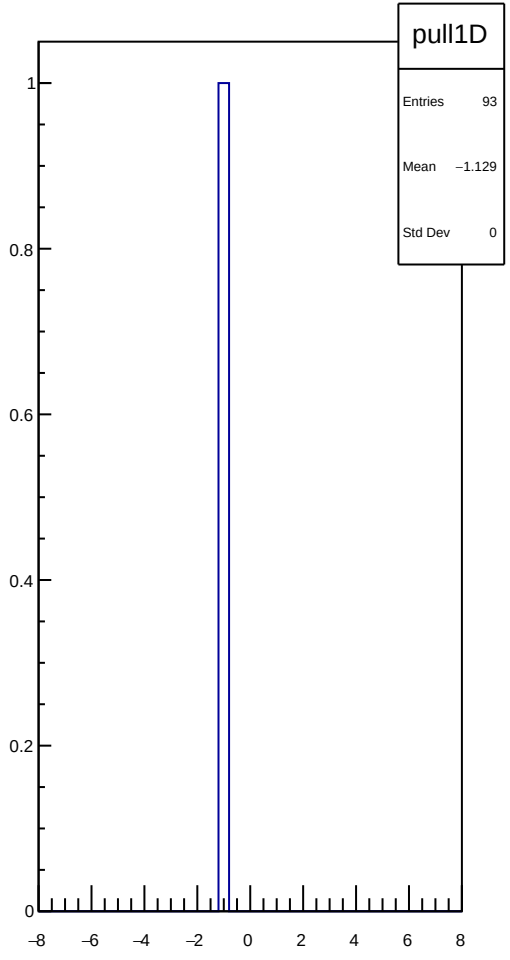

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3008 / 92
p0 28.77 ± 0.02127
33
32
31
30
29
28
27
26
25

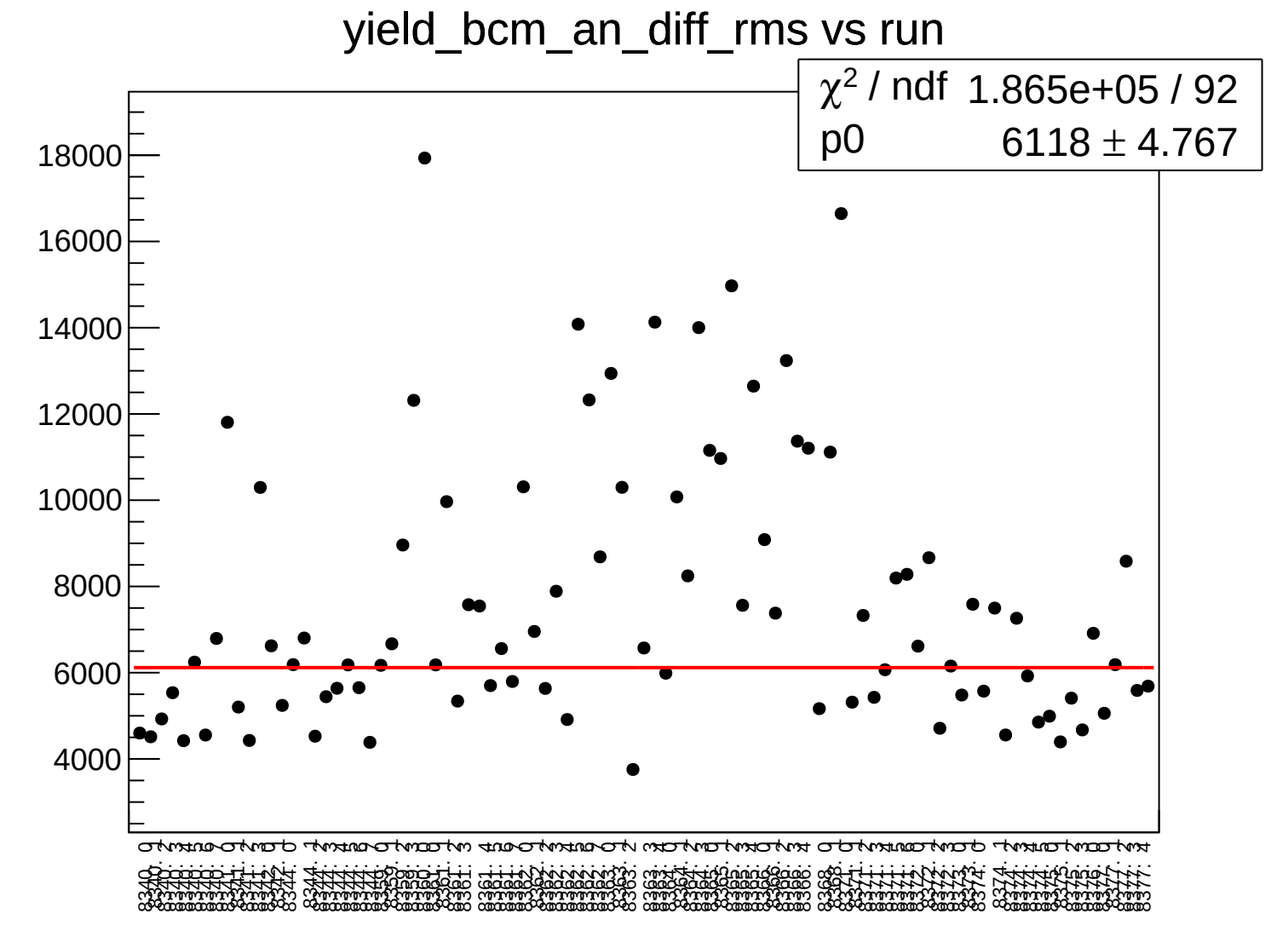

yield_bcm_target_mean vs run
χ² / ndf 4.553e+07 / 92
p0 141.4 ± 0.0007165
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean 375.2
Std Dev 133.8
1000
500
0
−500
−1000
−1500
−2000

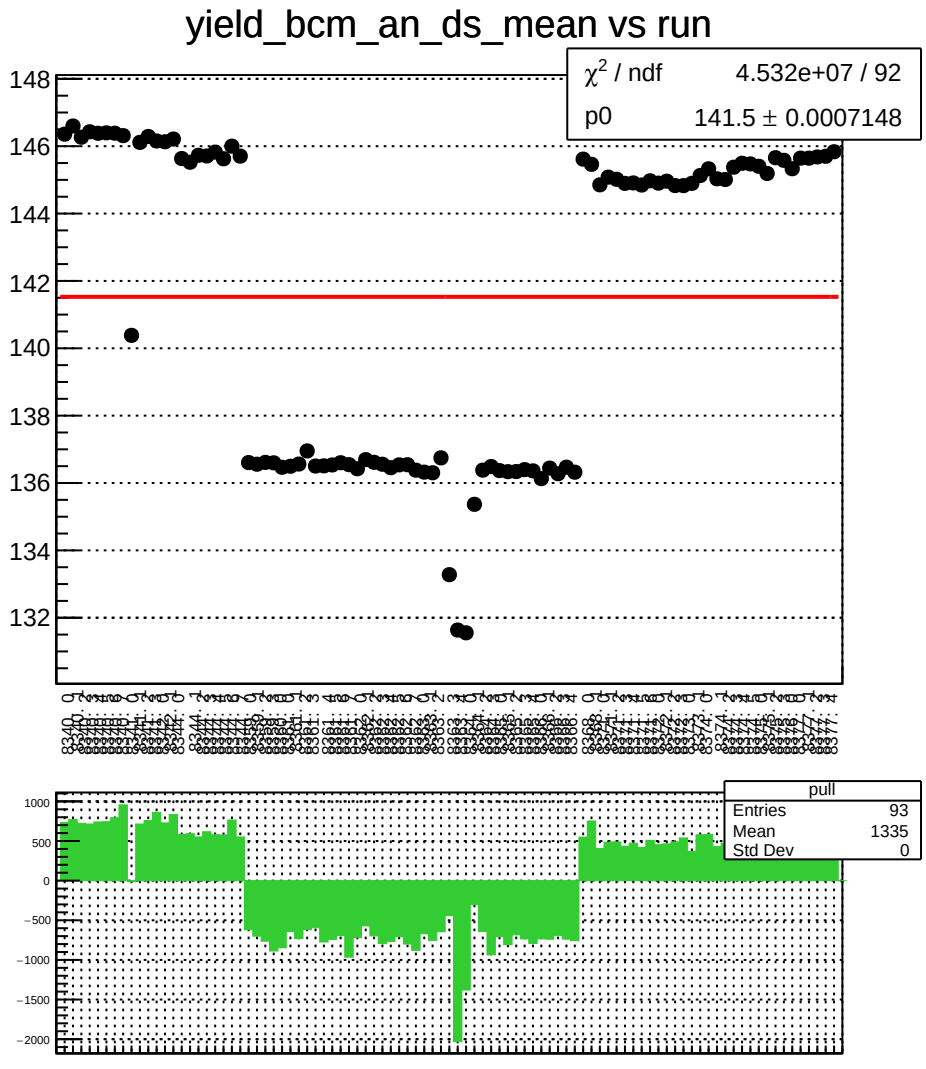

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

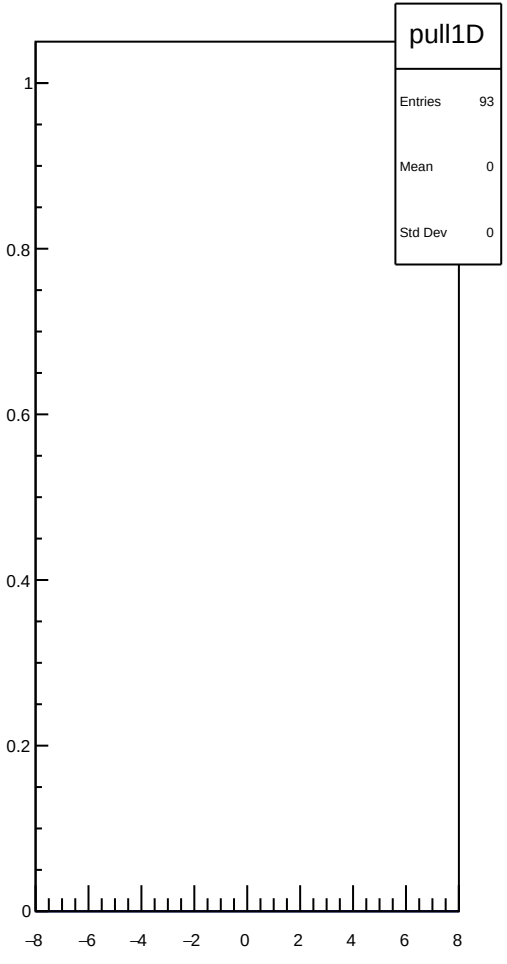

yield_bcm_target_rms vs run
χ² / ndf 4.644e+04 / 92
p0 0.6773 ± 0.0005067
9
8
7
6
5
4
3
2
1

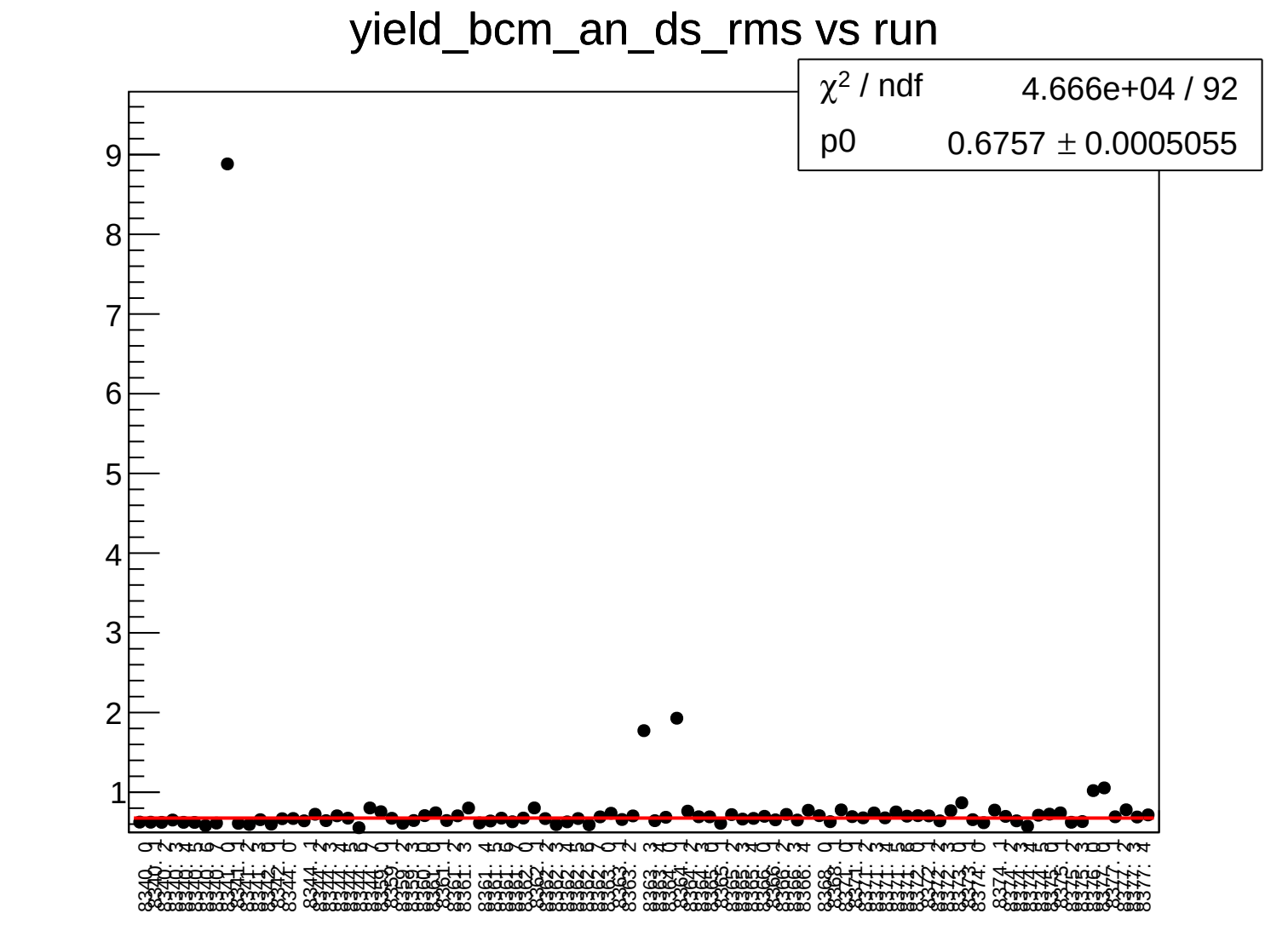

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.335e+07 / 92
p0 −3.605e+04 ± 6.741
20
0
−20
−40
−60
−80
−100
pull
Entries 93
Mean 350.8
Std Dev 0
1000
500
0
−500
−1000

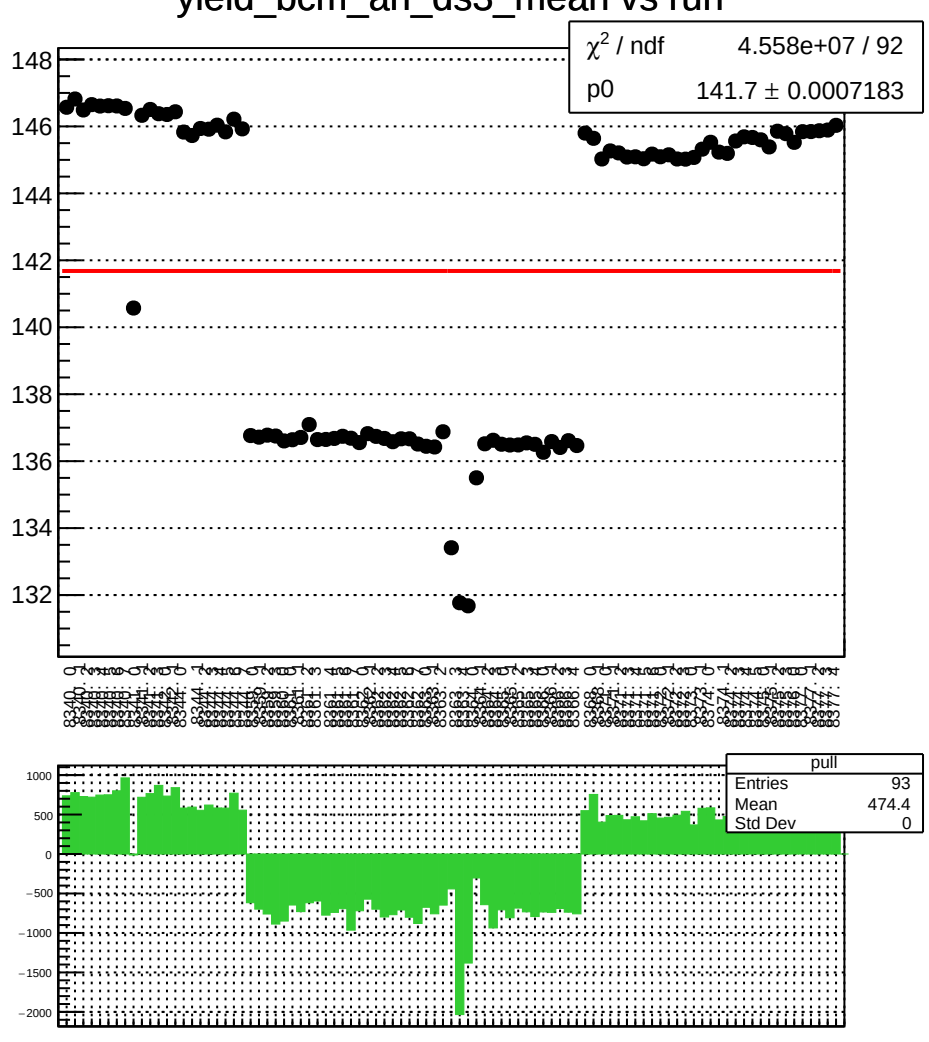

pull1D
Entries 93
Mean −1.129
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

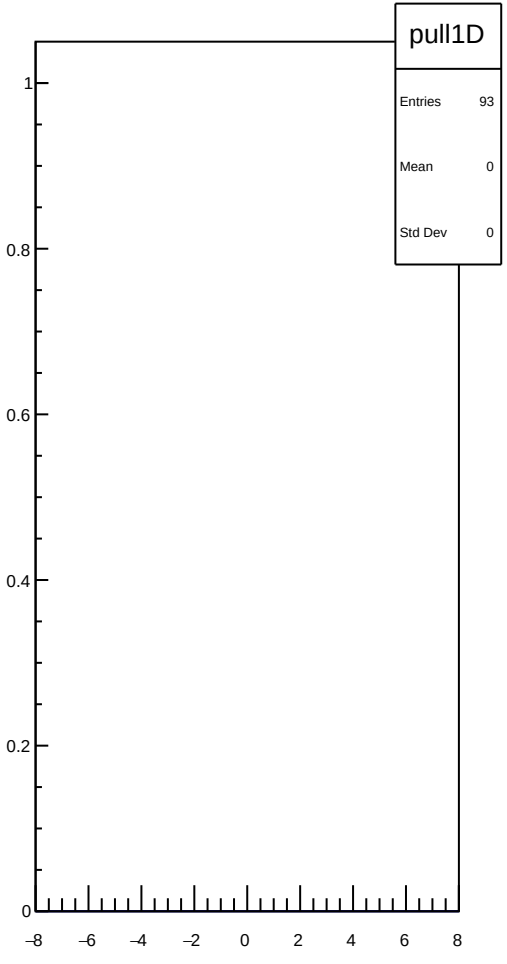

yield_bcm_an_diff_rms vs run
χ² / ndf 1.865e+05 / 92
p0 6118 ± 4.767
18000
16000
14000
12000
10000
8000
6000
4000

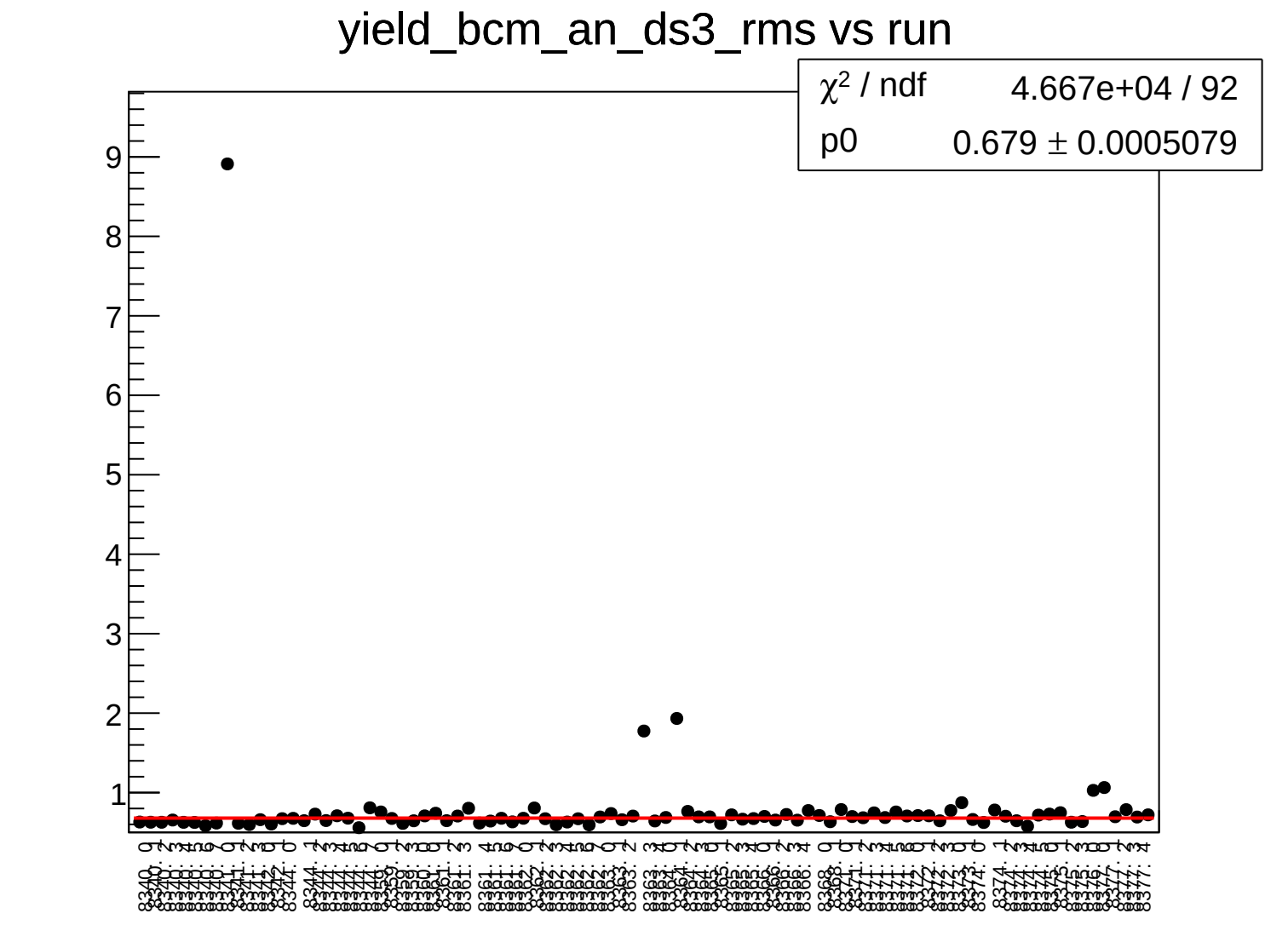

yield_bcm_an_ds_mean vs run
χ² / ndf 4.532e+07 / 92
p0 141.5 ± 0.0007148
148
146
144
142
140
138
136
134
132
pull
Entries 93
Mean 1335
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

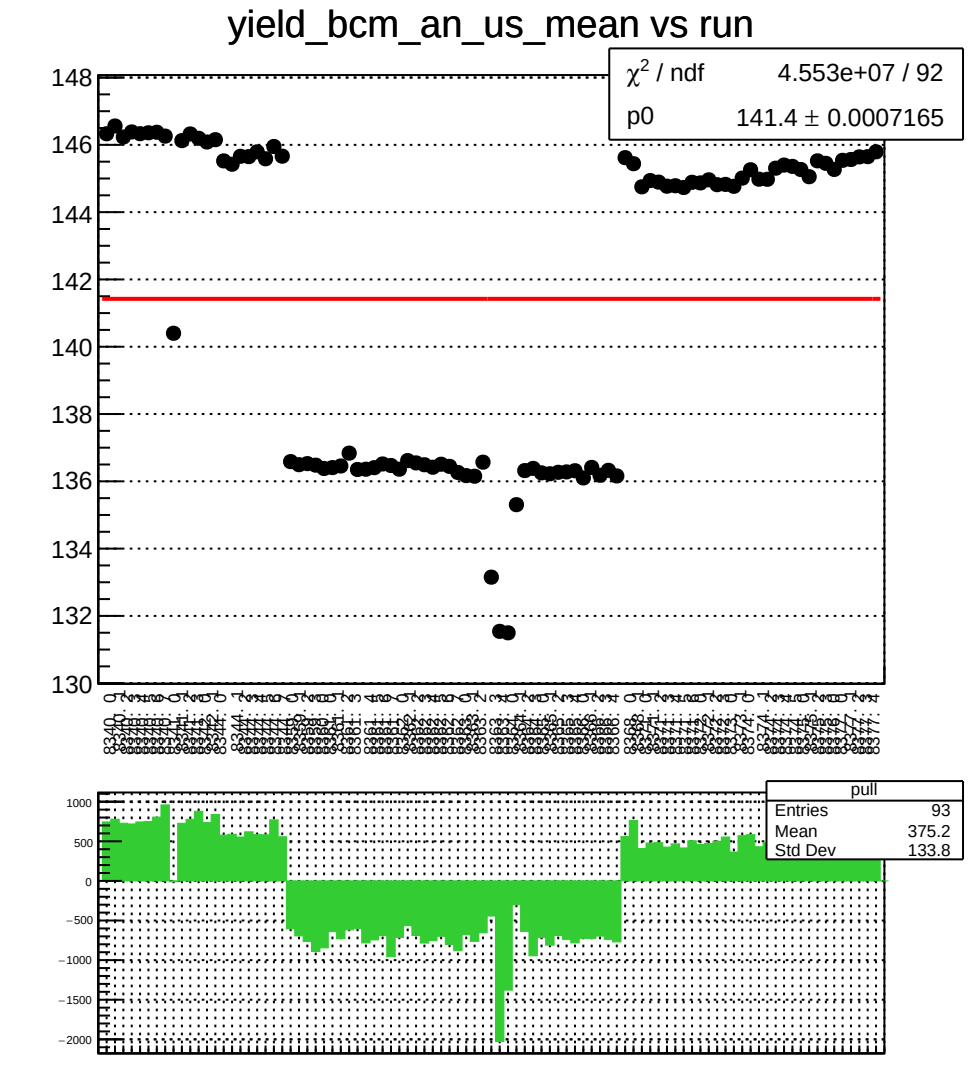

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

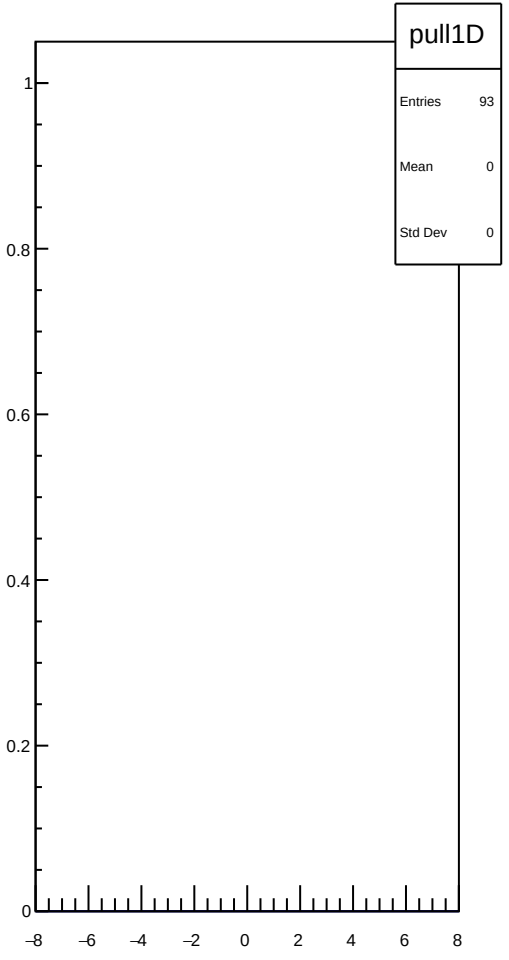

yield_bcm_an_ds_rms vs run
χ² / ndf 4.666e+04 / 92
p0 0.6757 ± 0.0005055
9
8
7
6
5
4
3
2
1

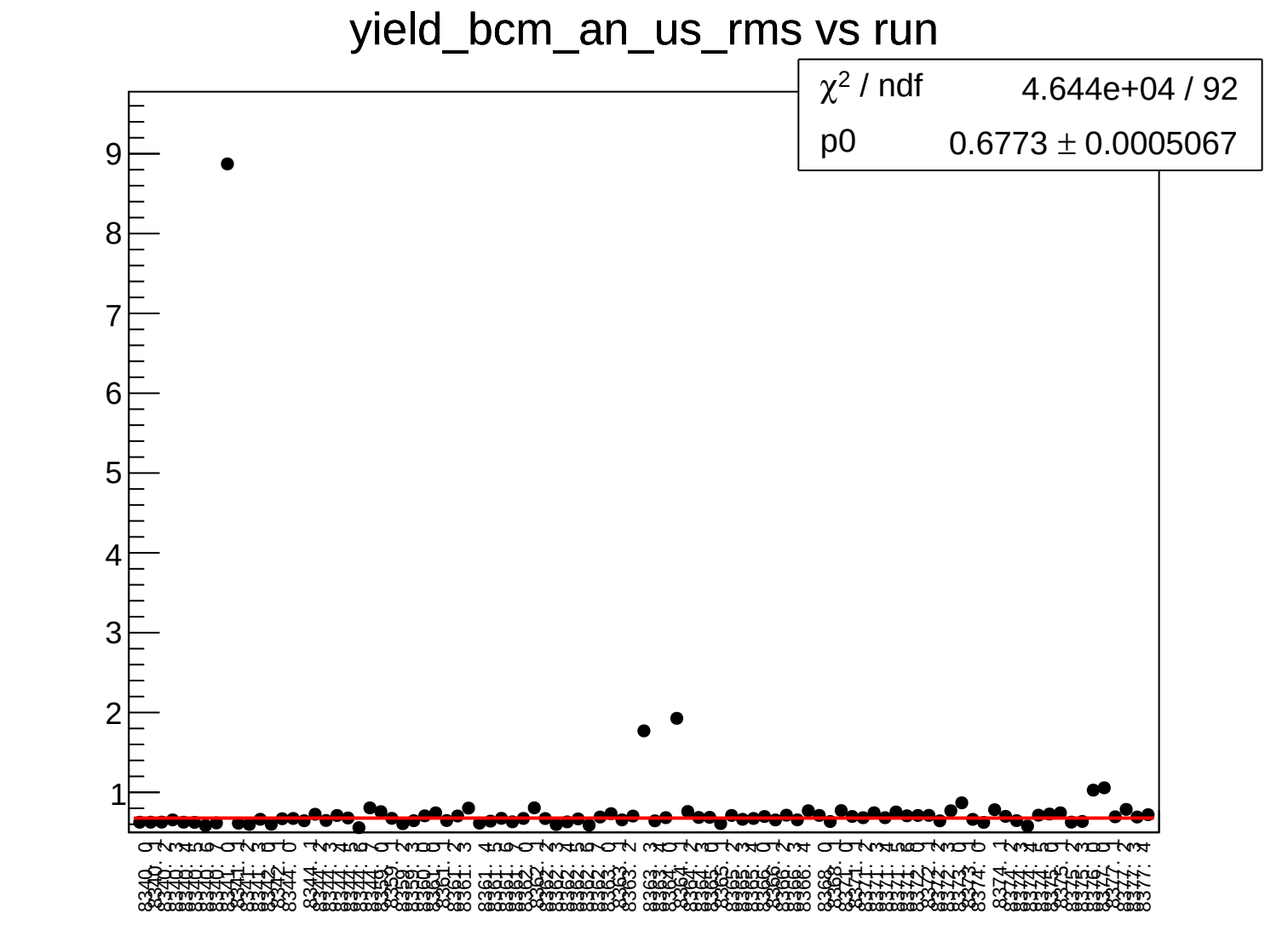

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.558e+07 / 92
p0 141.7 ± 0.0007183
148
146
144
142
140
138
136
134
132
pull
Entries 93
Mean 474.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

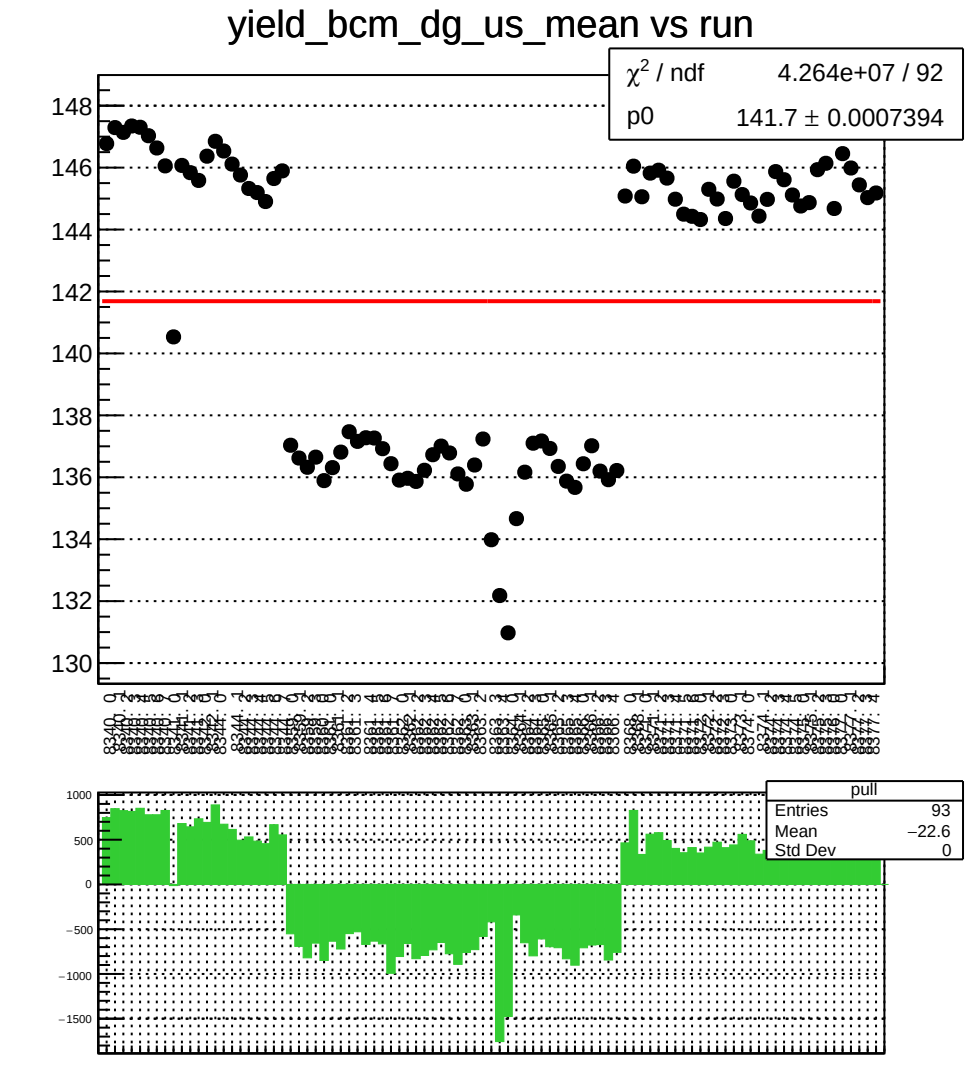

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

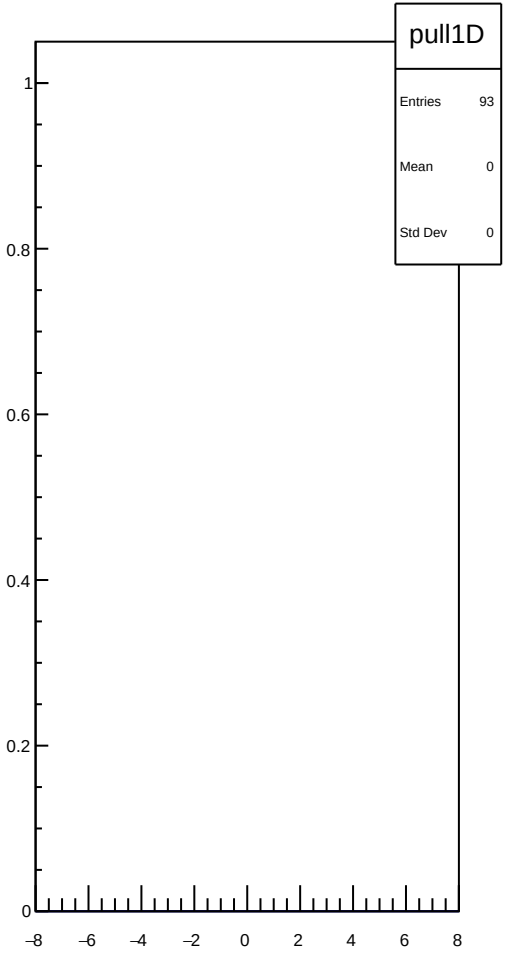

yield_bcm_an_ds3_rms vs run
χ² / ndf 4.667e+04 / 92
p0 0.679 ± 0.0005079
9
8
7
6
5
4
3
2
1

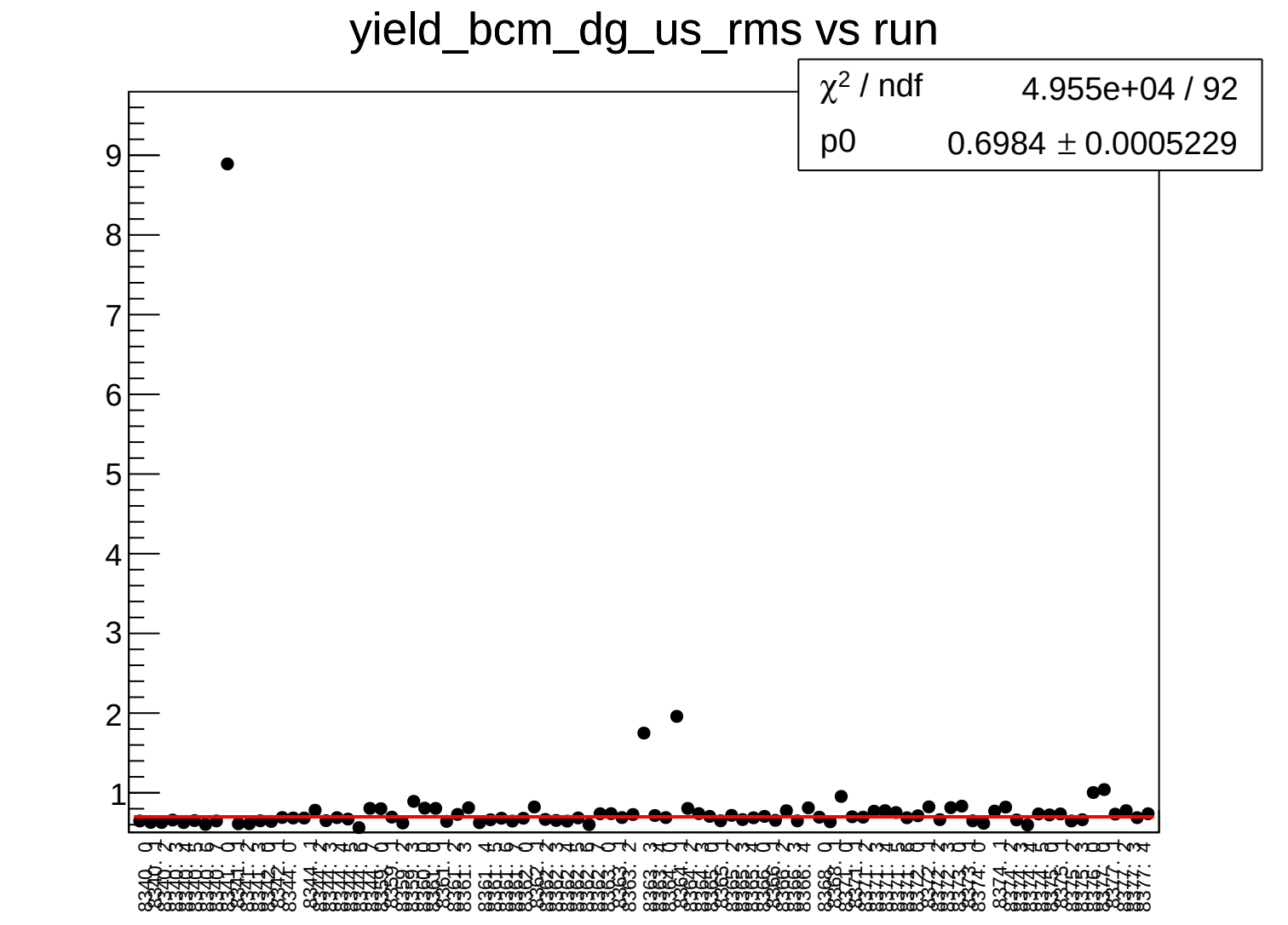

yield_bcm_an_us_mean vs run
χ² / ndf 4.553e+07 / 92
p0 141.4 ± 0.0007165
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean 375.2
Std Dev 133.8
1000
500
0
−500
−1000
−1500
−2000

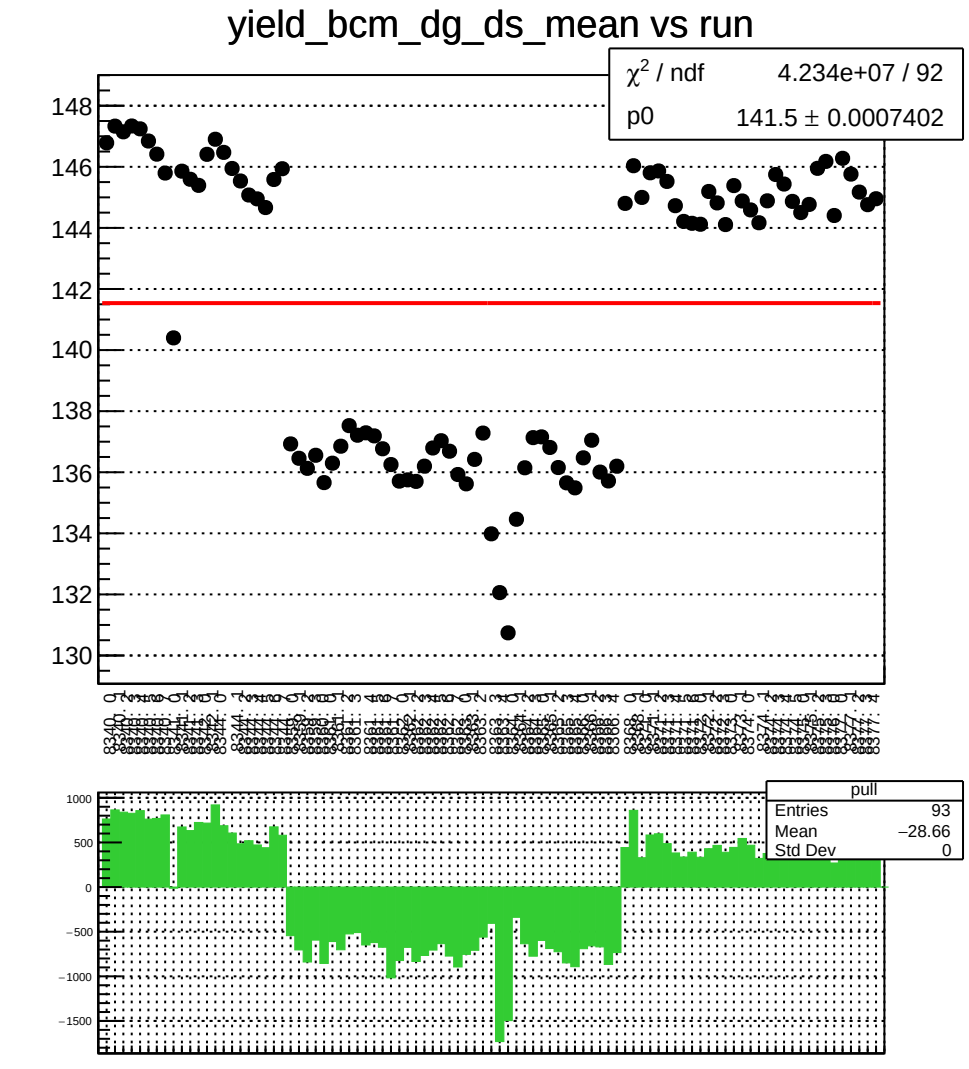

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

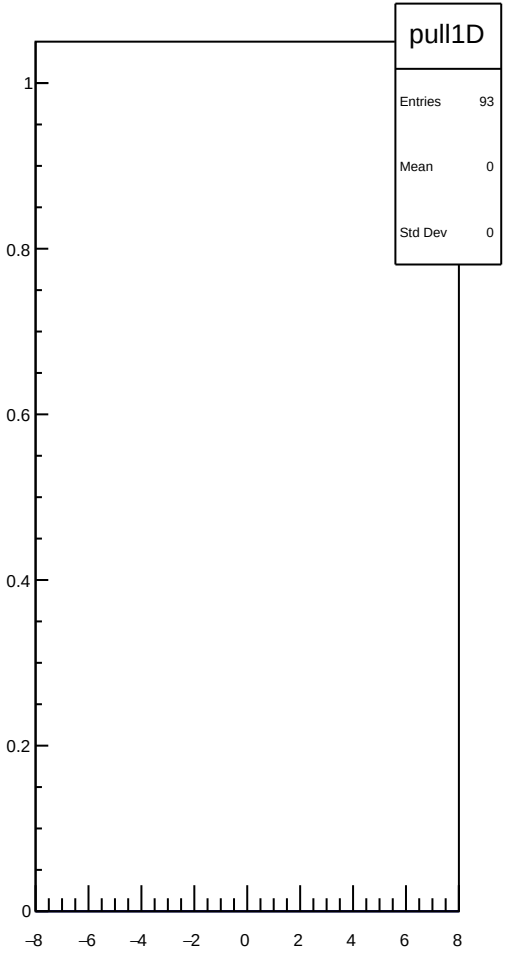

yield_bcm_an_us_rms vs run
χ² / ndf 4.644e+04 / 92
p0 0.6773 ± 0.0005067
9
8
7
6
5
4
3
2
1

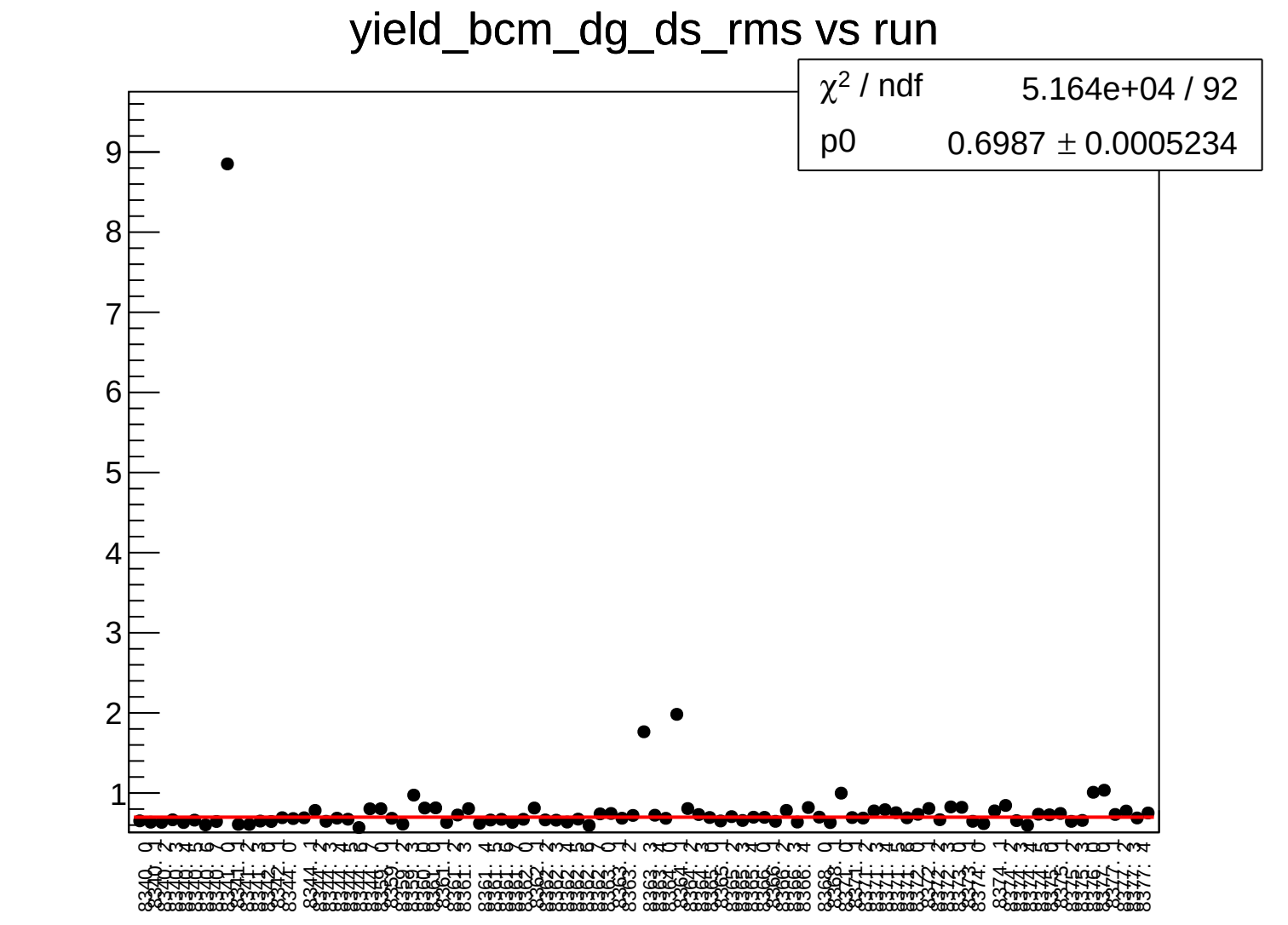

yield_bcm_dg_us_mean vs run
χ² / ndf 4.264e+07 / 92
p0 141.7 ± 0.0007394
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean −22.6
Std Dev 0
1000
500
0
−500
−1000
−1500

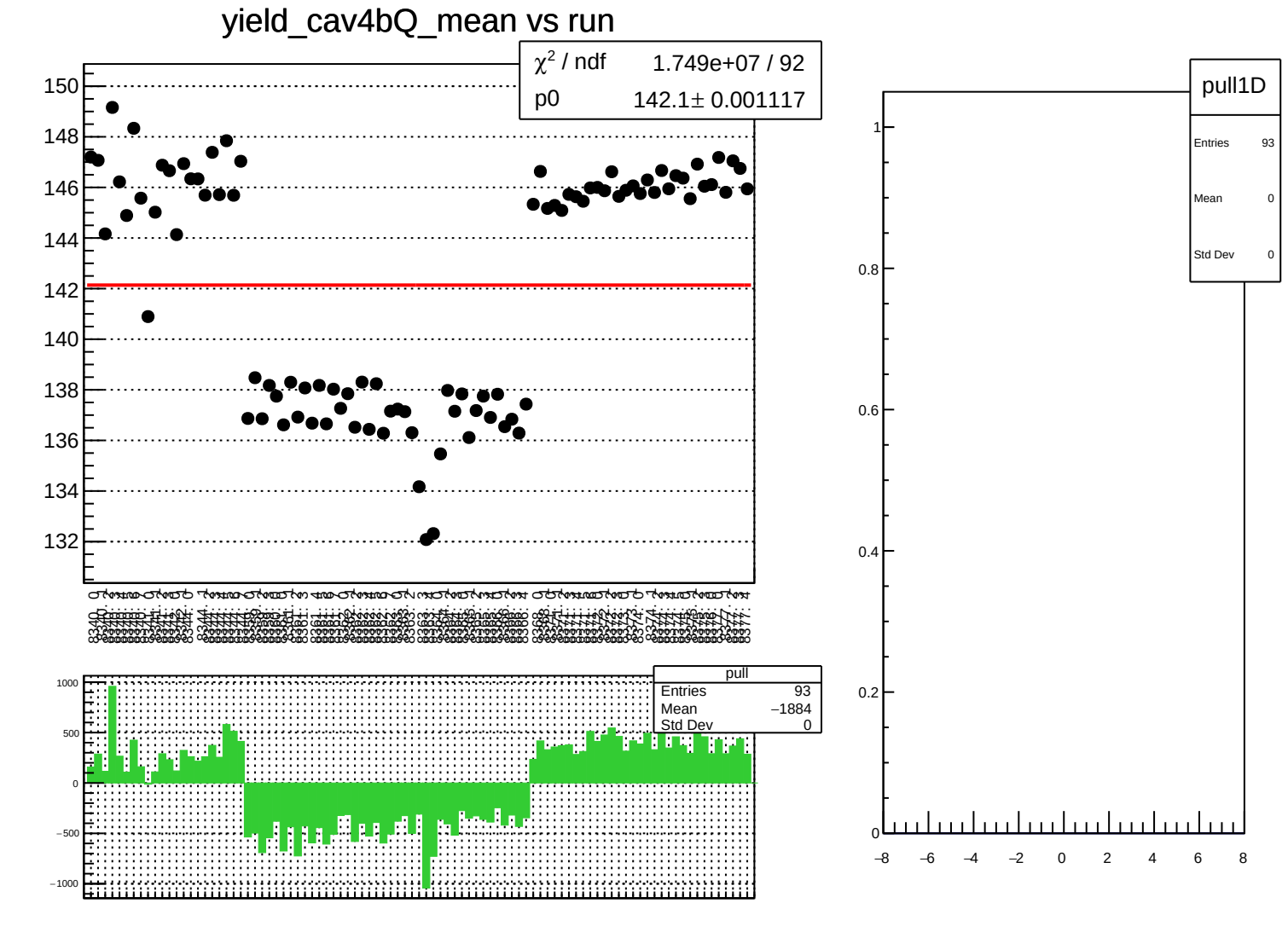

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

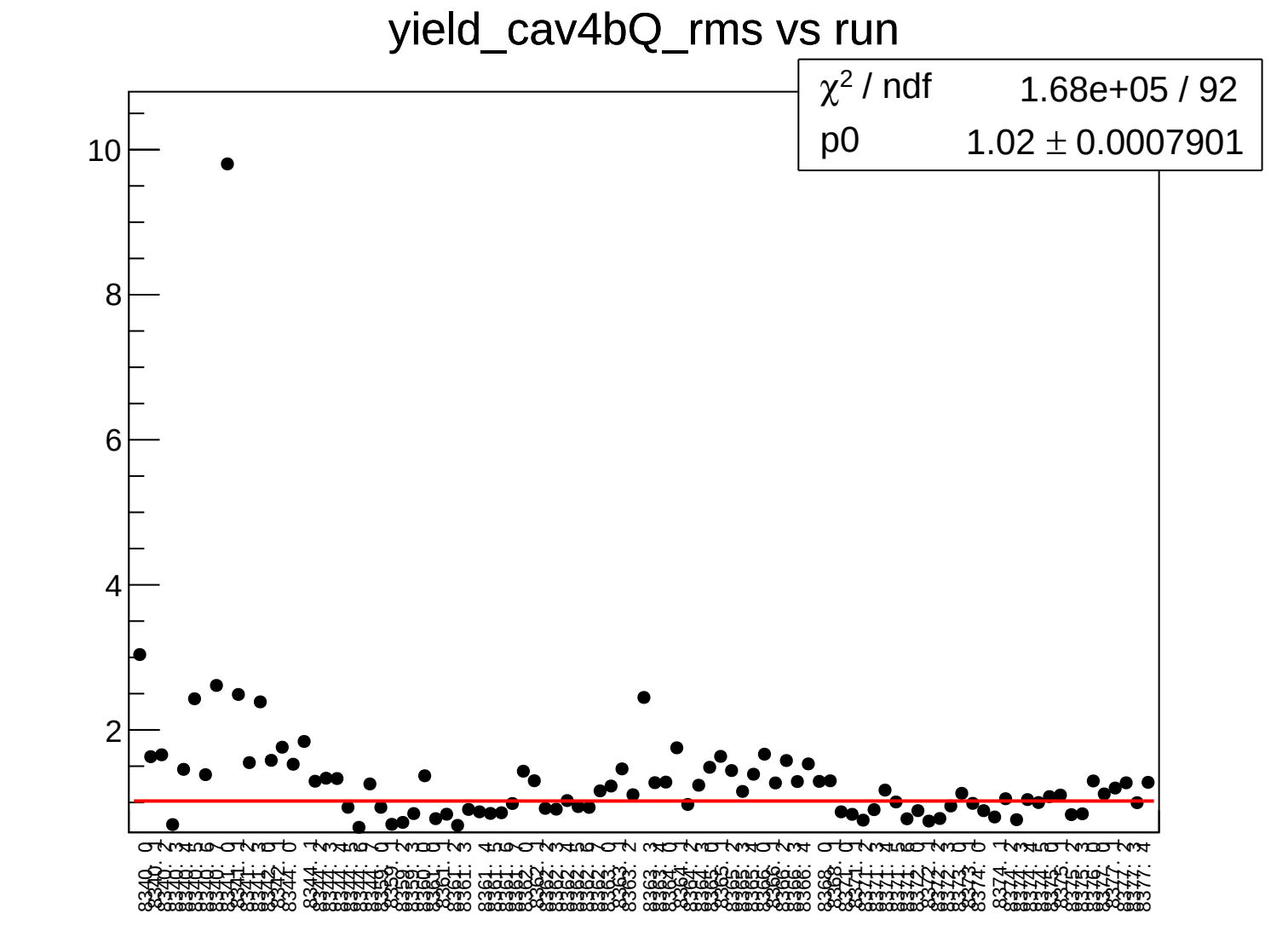

yield_bcm_dg_us_rms vs run
χ² / ndf 4.955e+04 / 92
p0 0.6984 ± 0.0005229
9
8
7
6
5
4
3
2
1

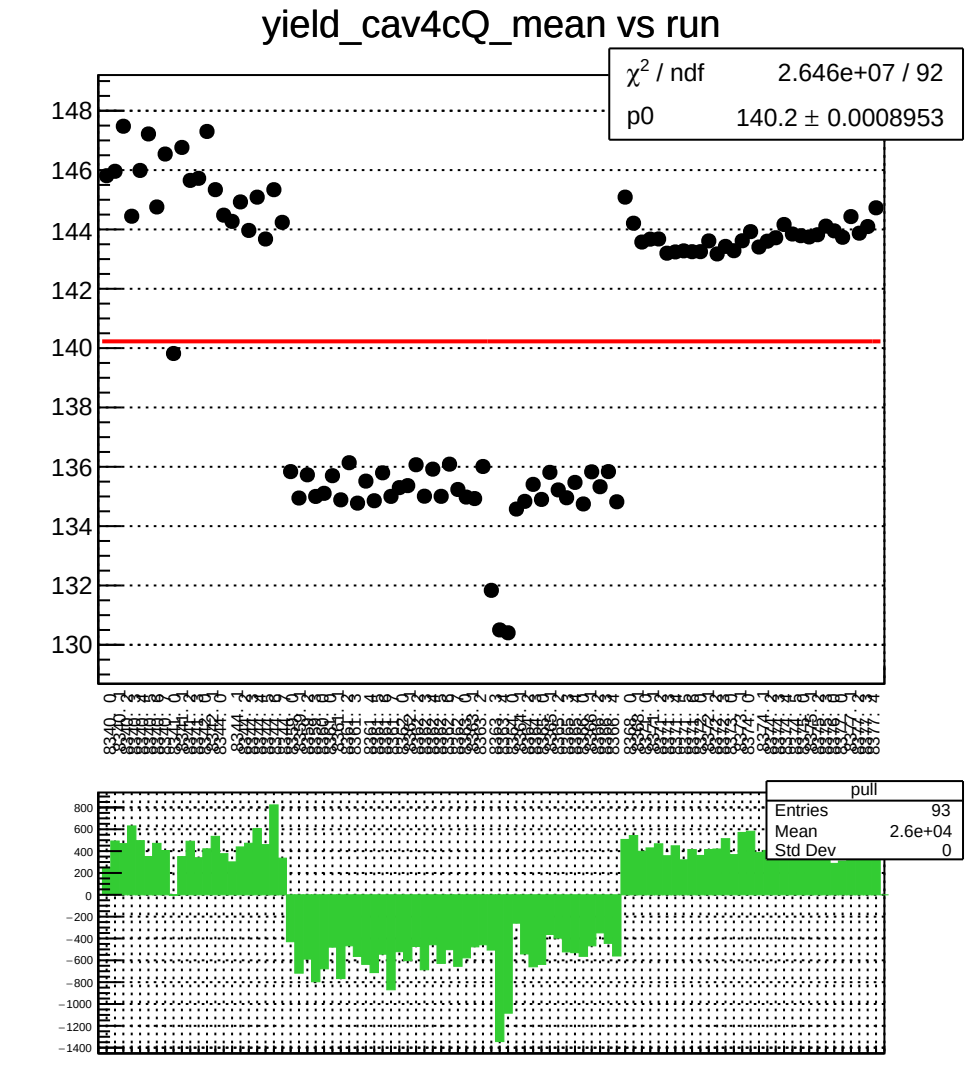

yield_bcm_dg_ds_mean vs run
χ² / ndf 4.234e+07 / 92
p0 141.5 ± 0.0007402
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean −28.66
Std Dev 0
1000
500
0
−500
−1000
−1500

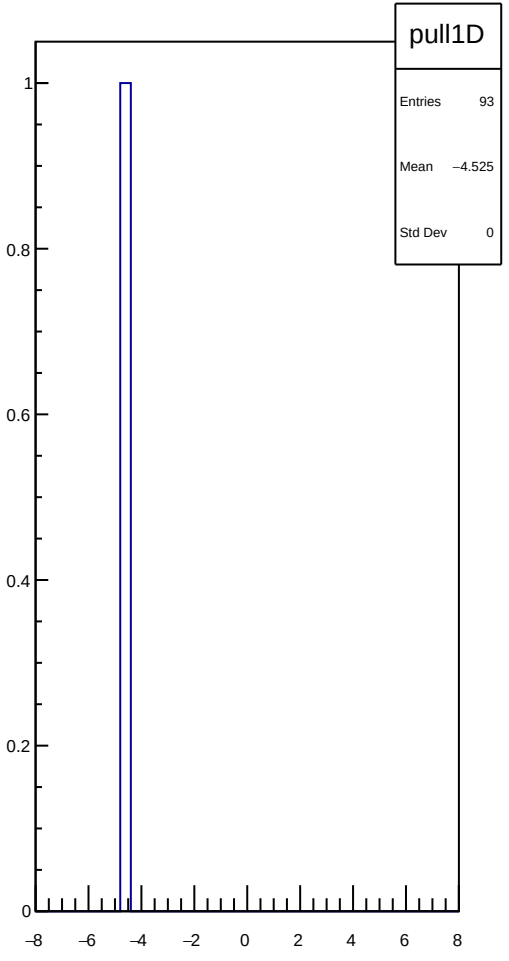

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_dg_ds_rms vs run
χ² / ndf 5.164e+04 / 92
p0 0.6987 ± 0.0005234
9
8
7
6
5
4
3
2
1

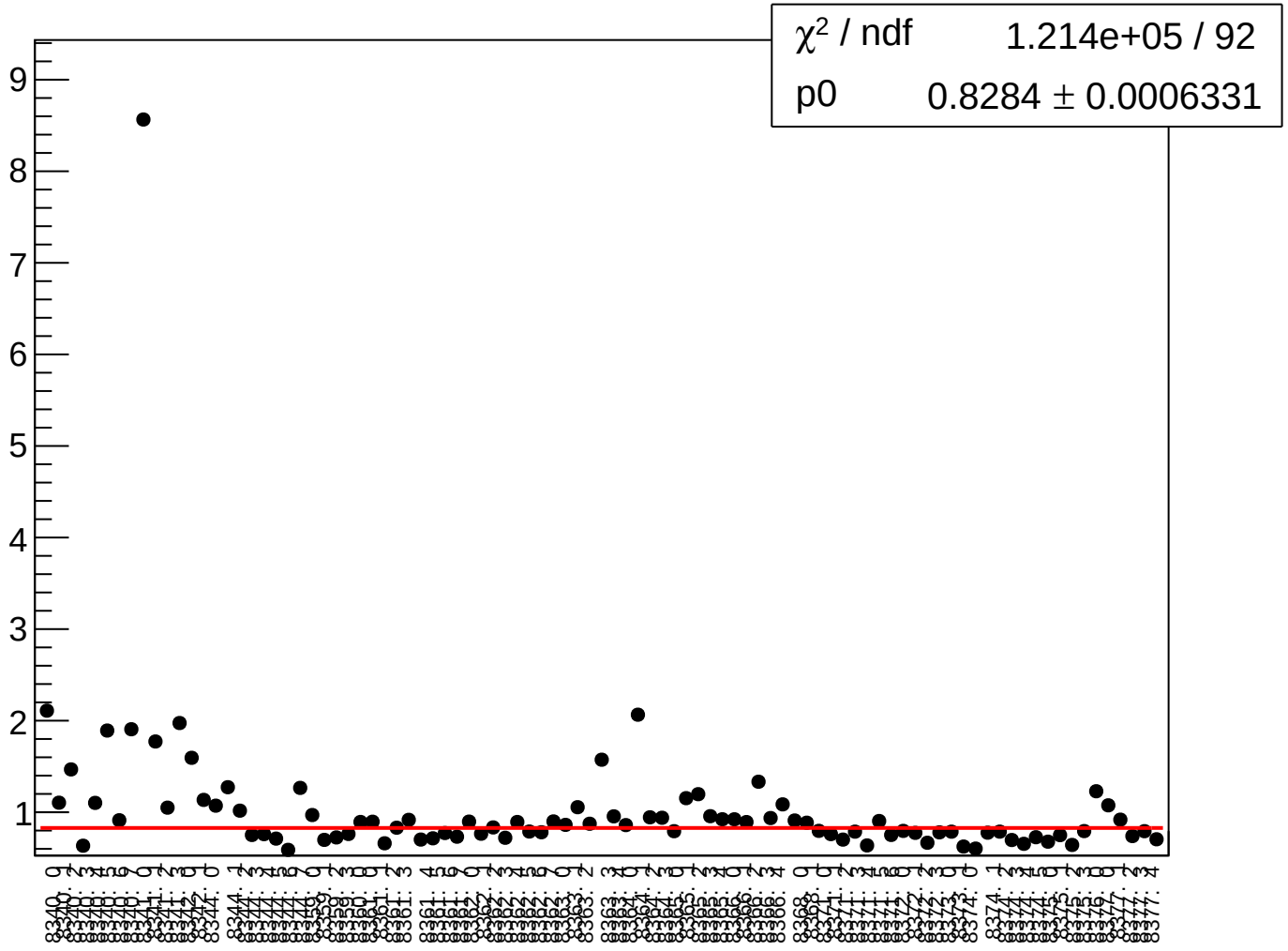

yield_cav4bQ_mean vs run
χ² / ndf 1.749e+07 / 92
p0 142.1± 0.001117
150
148
146
144
142
140
138
136
134
132
pull
Entries 93
Mean −1884
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

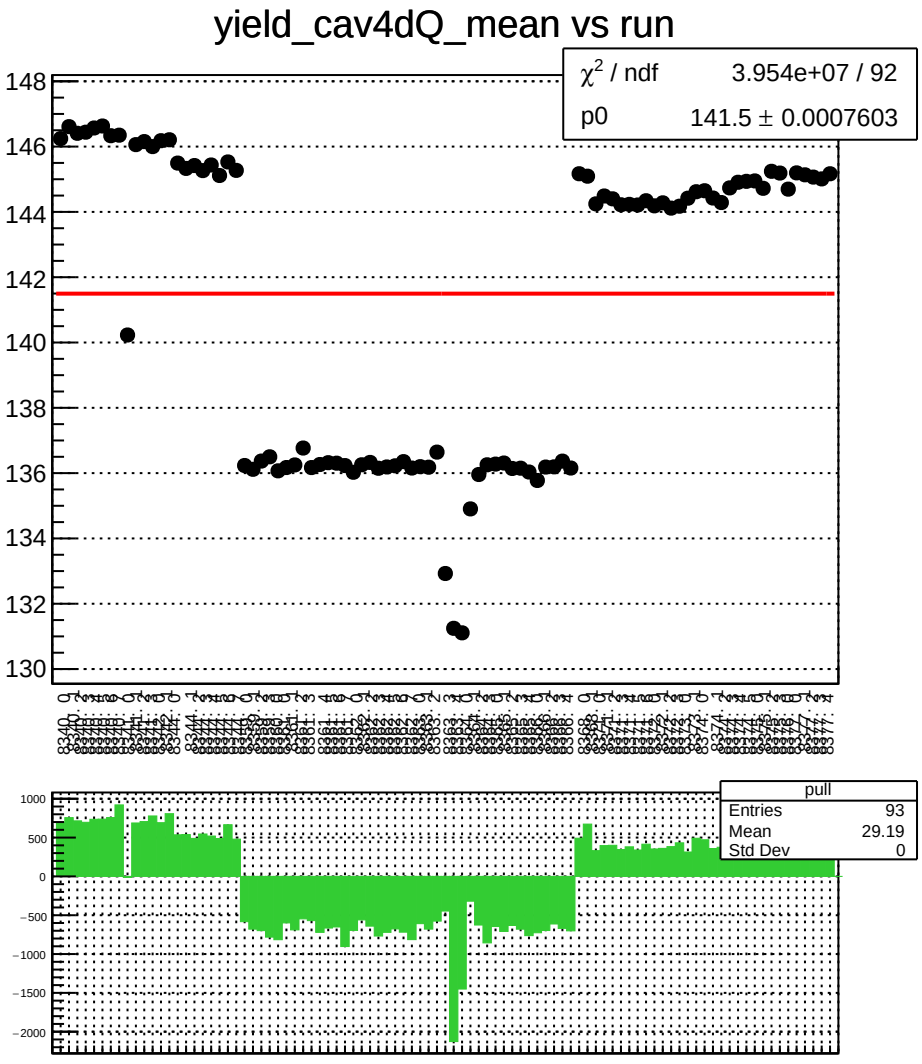

yield_cav4bQ_rms vs run
χ^2 / ndf 1.68e+05 / 92
p0 1.02 ± 0.0007901
10
8
6
4
2

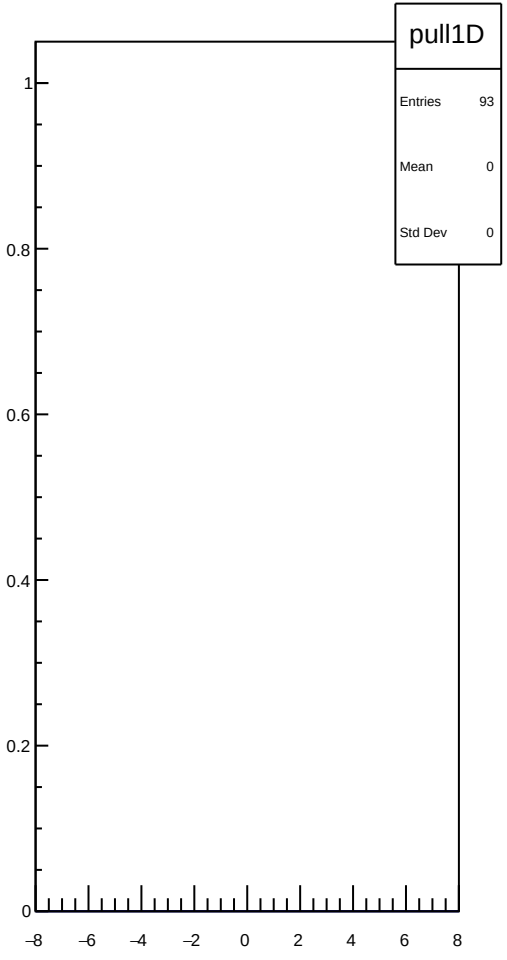

yield_cav4cQ_mean vs run
χ² / ndf 2.646e+07 / 92
p0 140.2 ± 0.0008953
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean 2.6e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

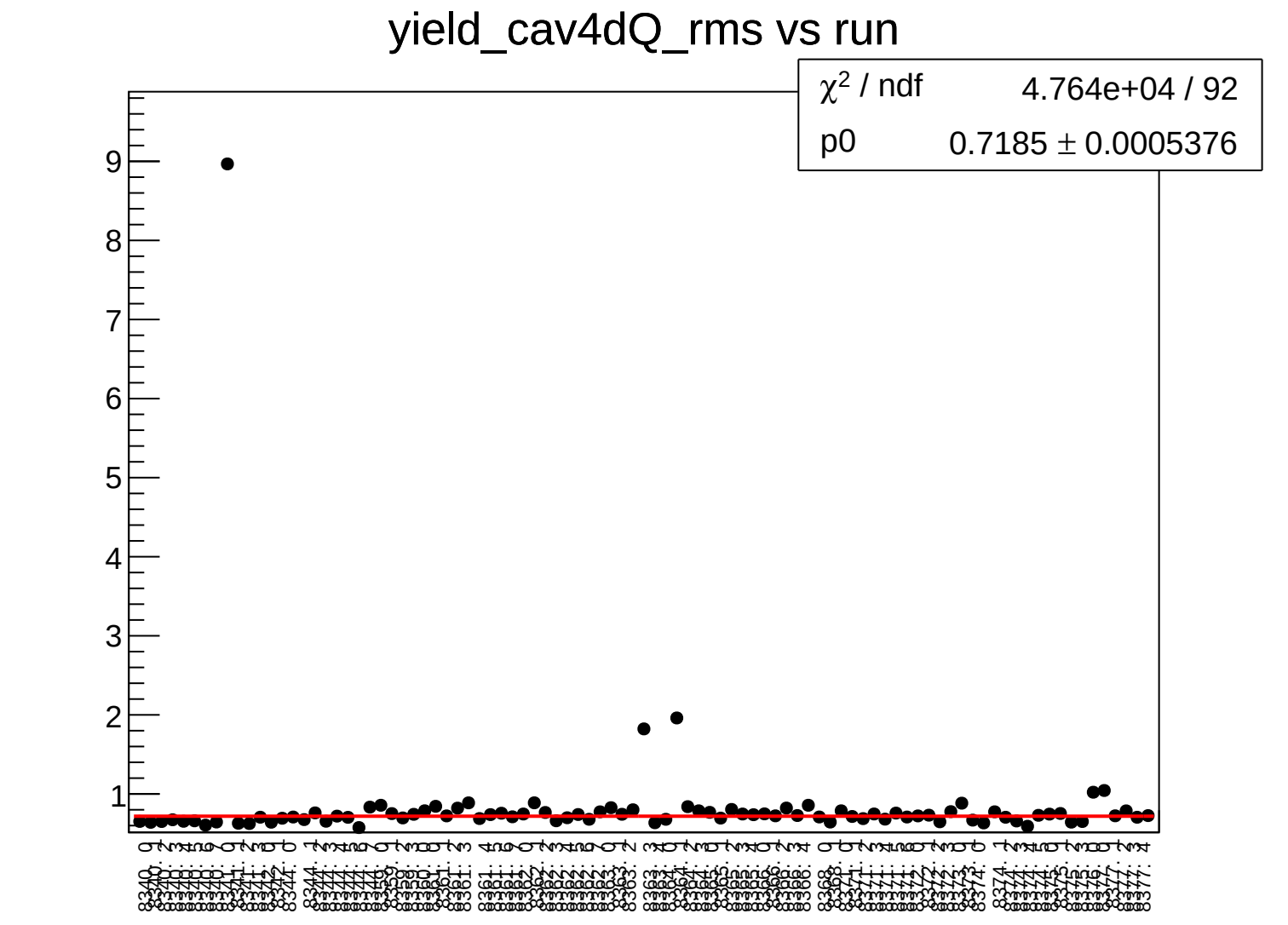

pull1D
Entries 93
Mean −4.525
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

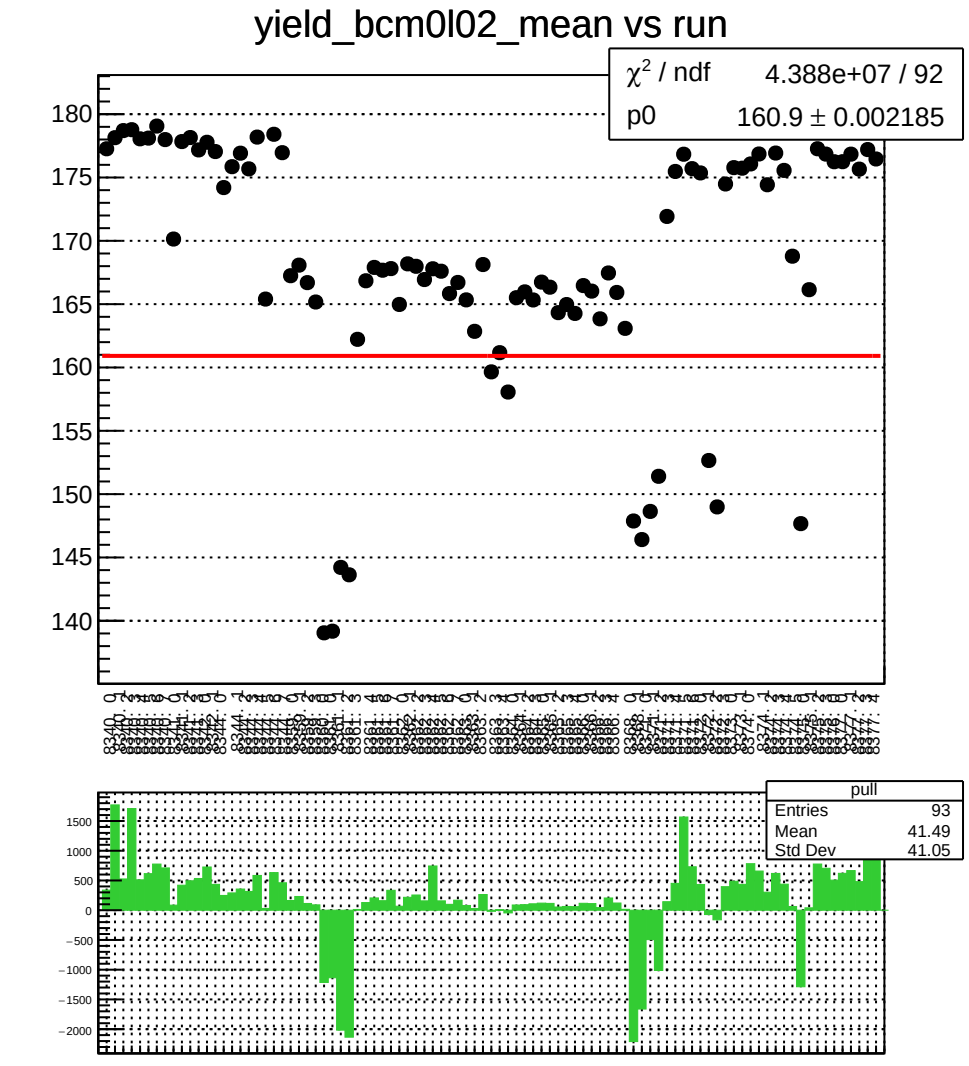
yield_cav4cQ_rms vs run

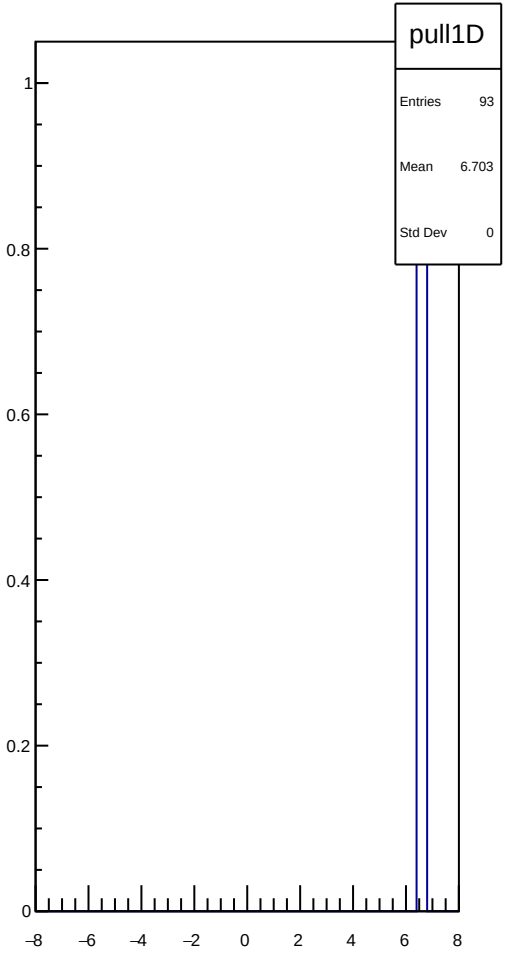


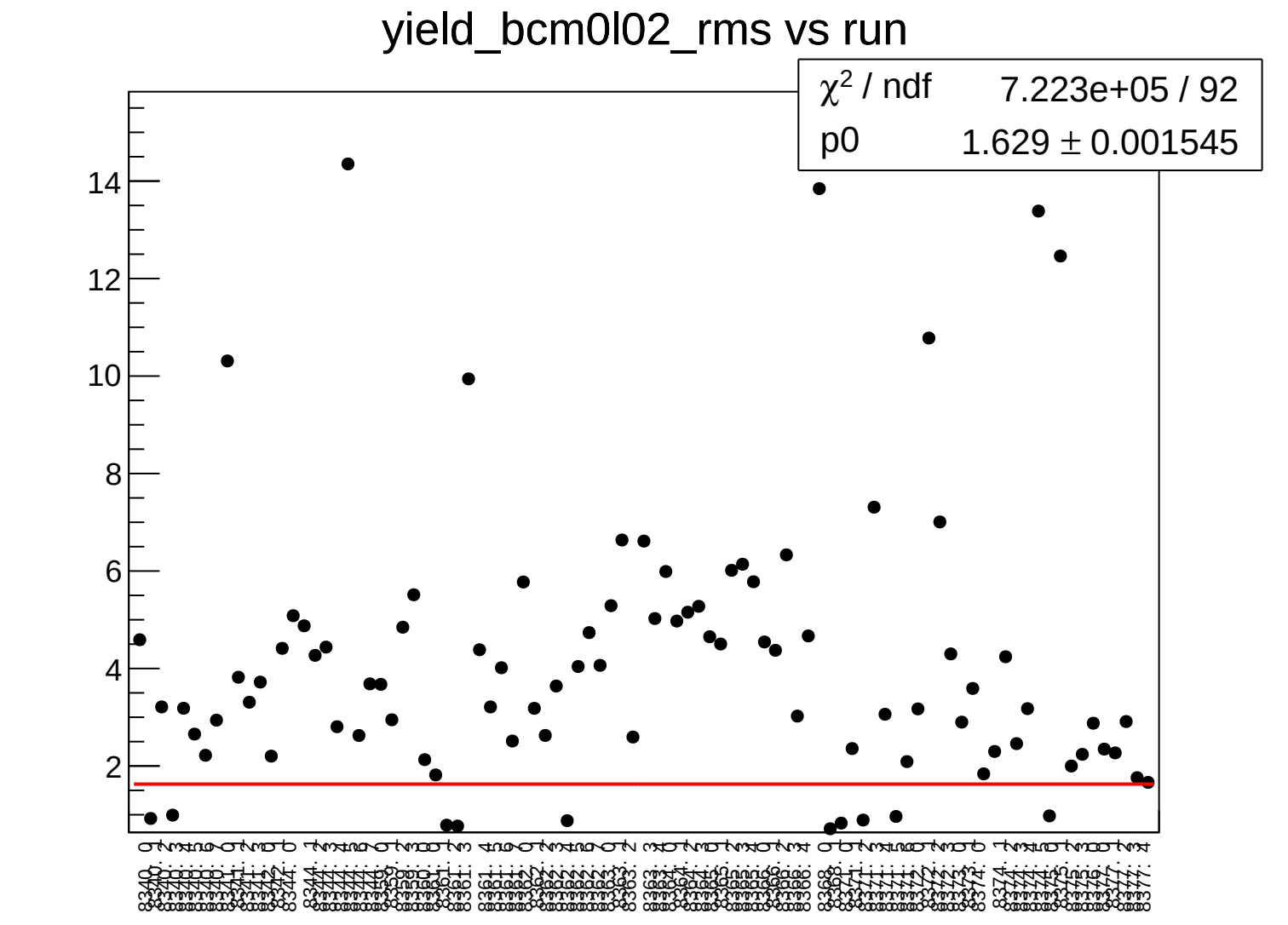

yield_cav4dQ_mean vs run
χ² / ndf 3.954e+07 / 92
p0 141.5 ± 0.0007603
148
146
144
142
140
138
136
134
132
130
pull
Entries 93
Mean 29.19
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

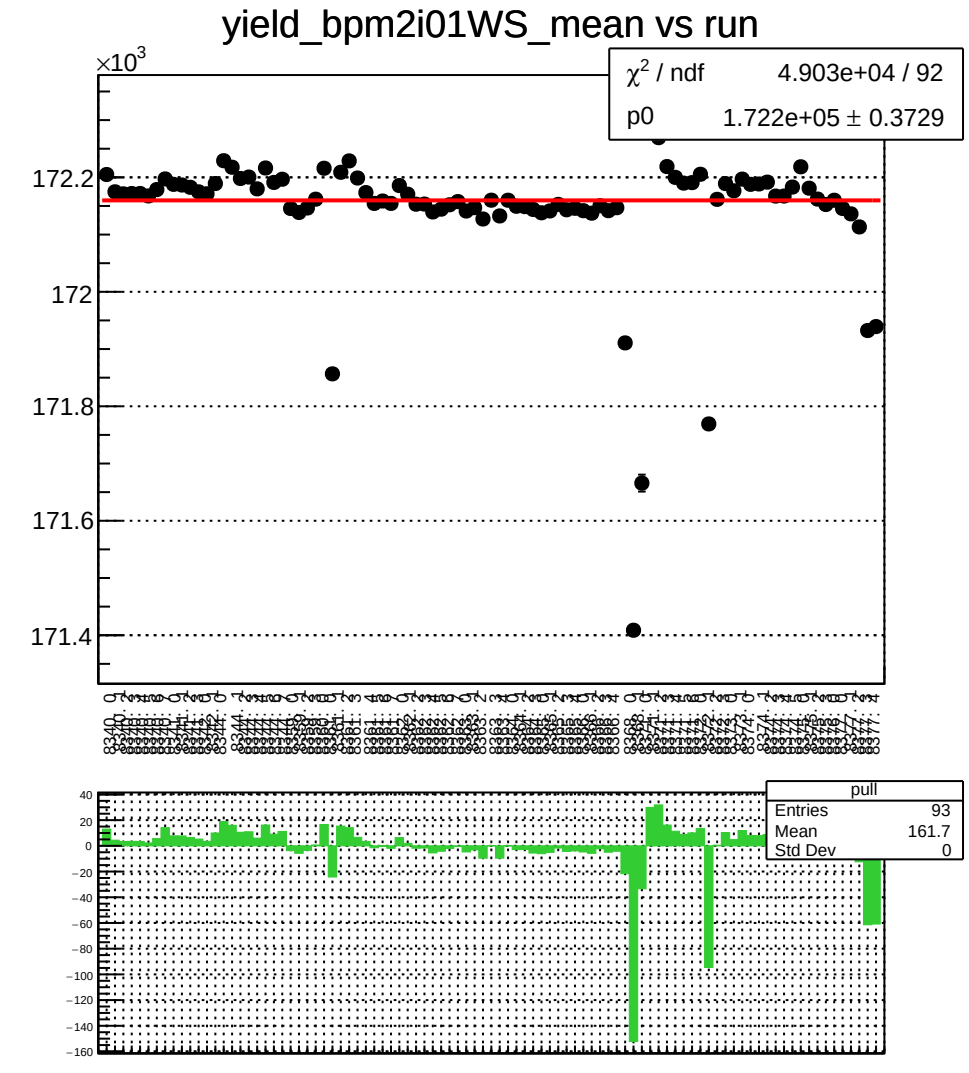

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

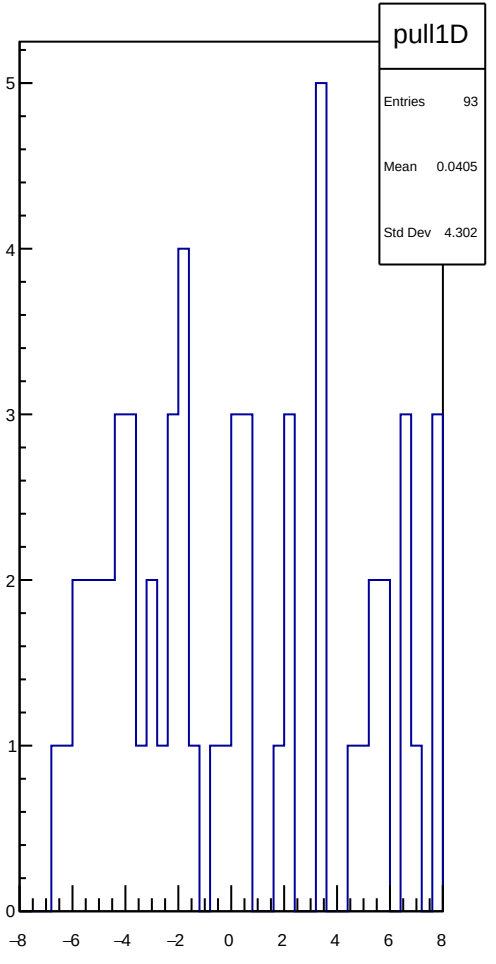

yield_cav4dQ_rms vs run
χ² / ndf 4.764e+04 / 92
p0 0.7185 ± 0.0005376
9
8
7
6
5
4
3
2
1

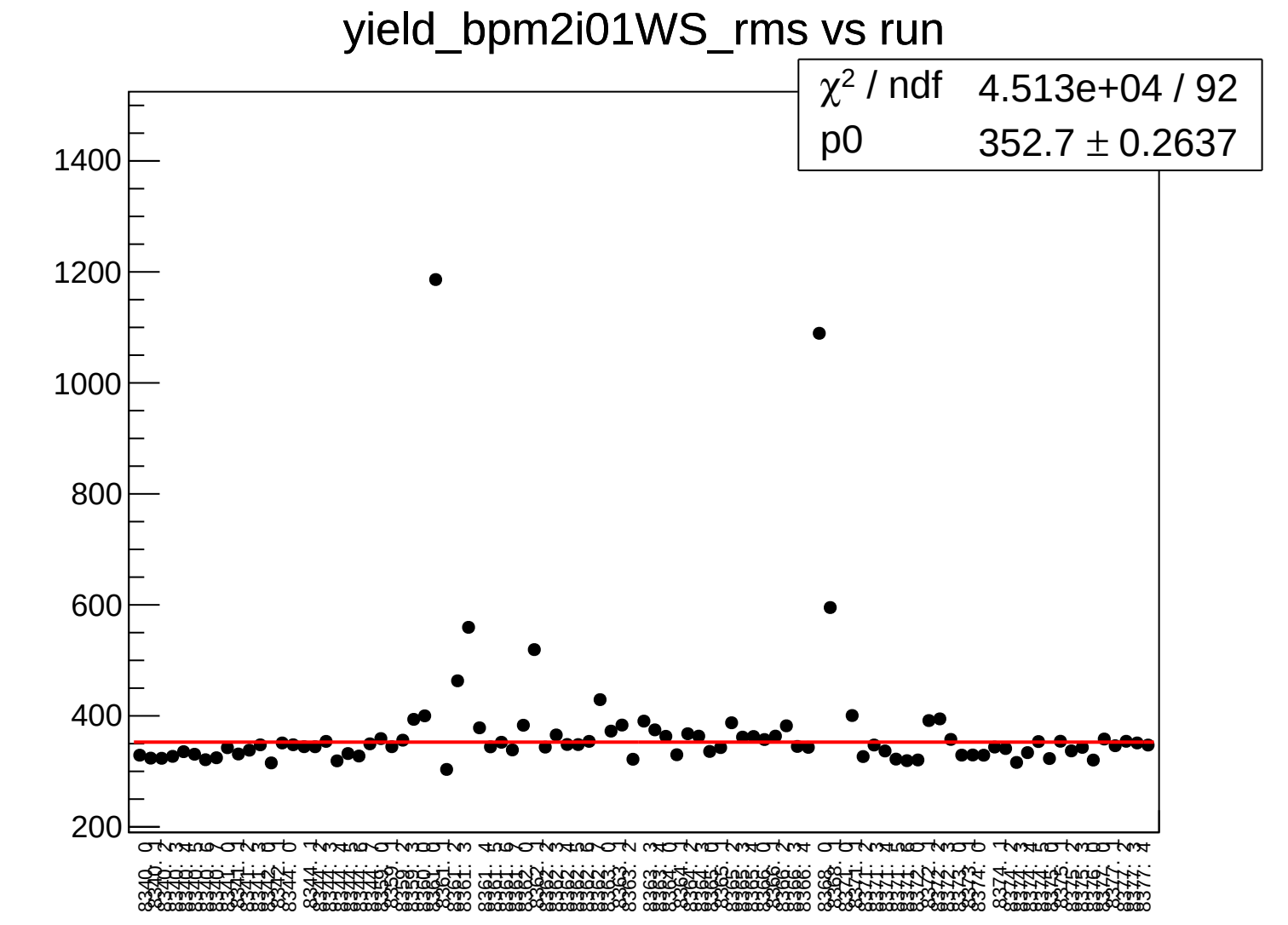

yield_bcm0l02_mean vs run
χ² / ndf 4.388e+07 / 92
p0 160.9 ± 0.002185
180
175
170
165
160
155
150
145
140
pull
Entries 93
Mean 41.49
Std Dev 41.05
1500
1000
500
0
−500
−1000
−1500
−2000

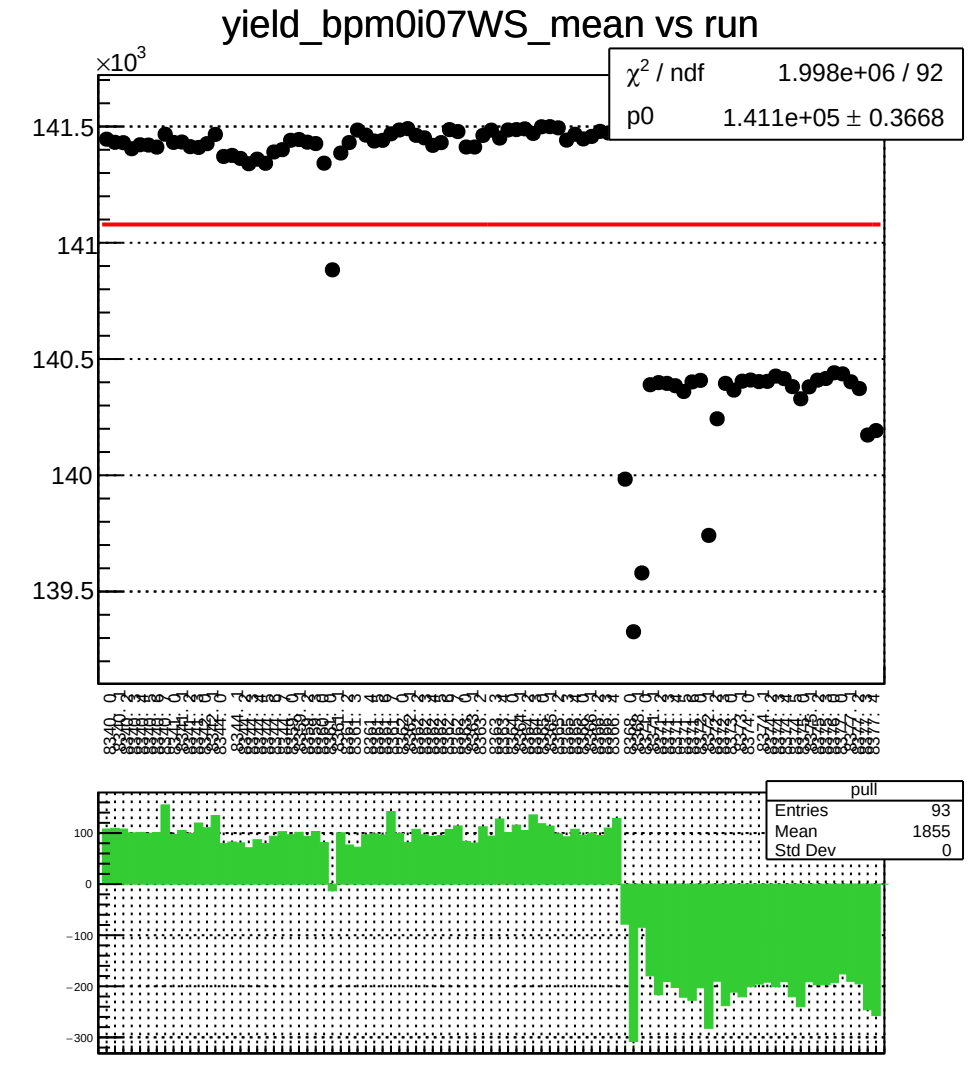

pull1D
Entries 93
Mean 6.703
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

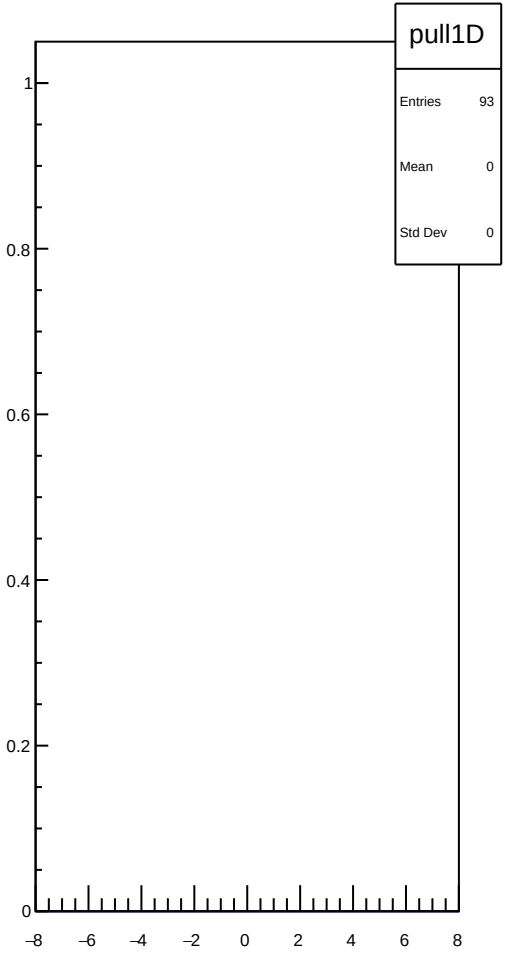

yield_bcm0l02_rms vs run
χ^2 / ndf 7.223e+05 / 92
p0 1.629 ± 0.001545
14
12
10
8
6
4
2

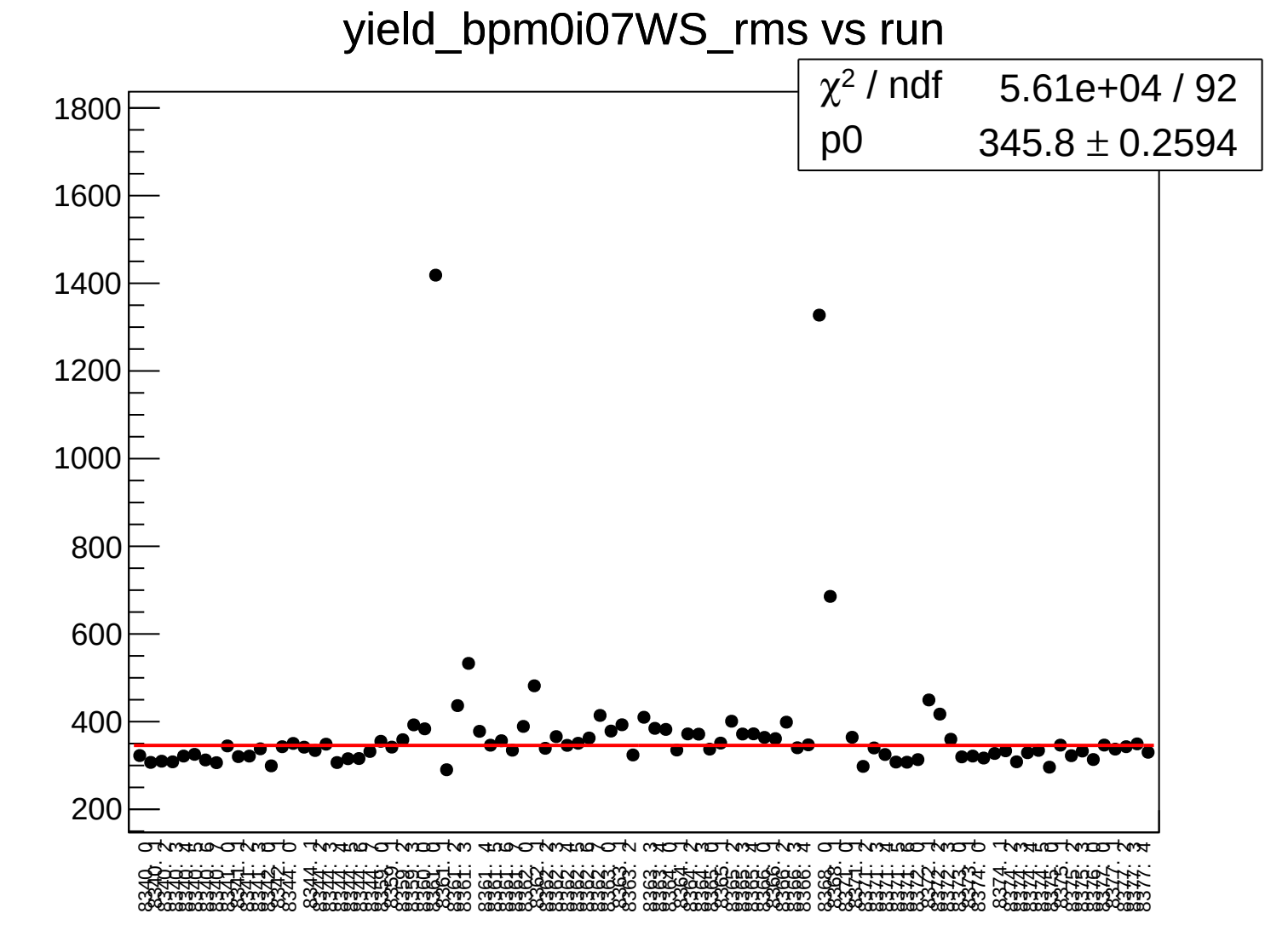

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 4.903e+04 / 92
p0 1.722e+05 ± 0.3729
172.2
172
171.8
171.6
171.4
pull
Entries 93
Mean 161.7
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160

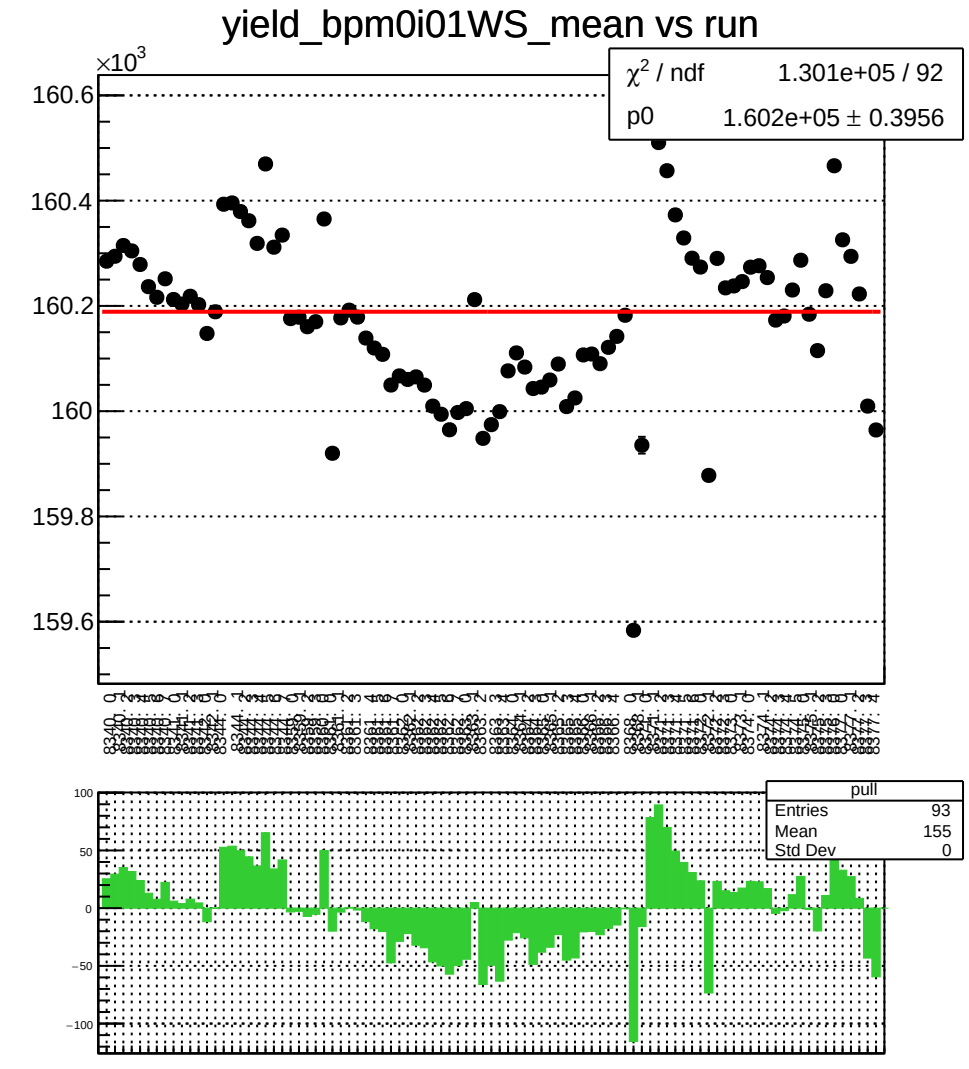

pull1D
Entries 93
Mean 0.0405
Std Dev 4.302
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

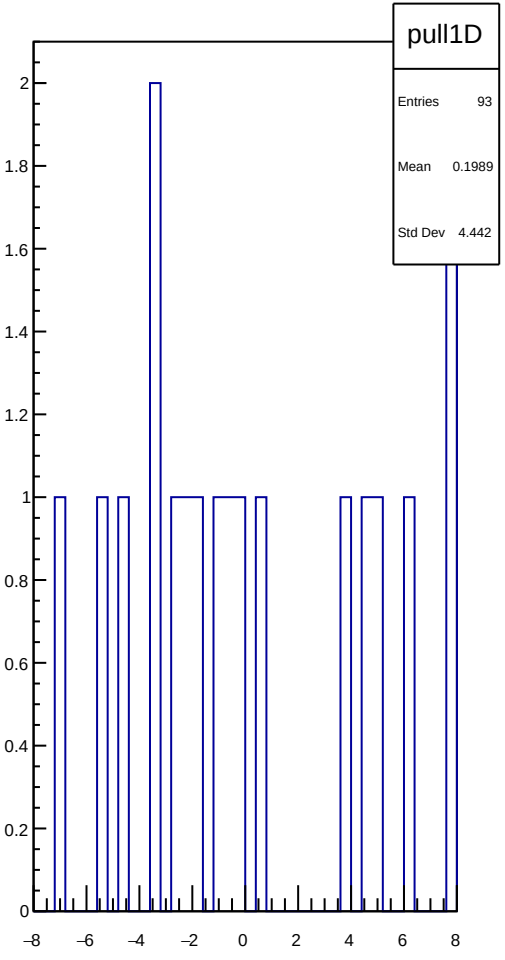

yield_bpm2i01WS_rms vs run
χ² / ndf 4.513e+04 / 92
p0 352.7 ± 0.2637
1400
1200
1000
800
600
400
200

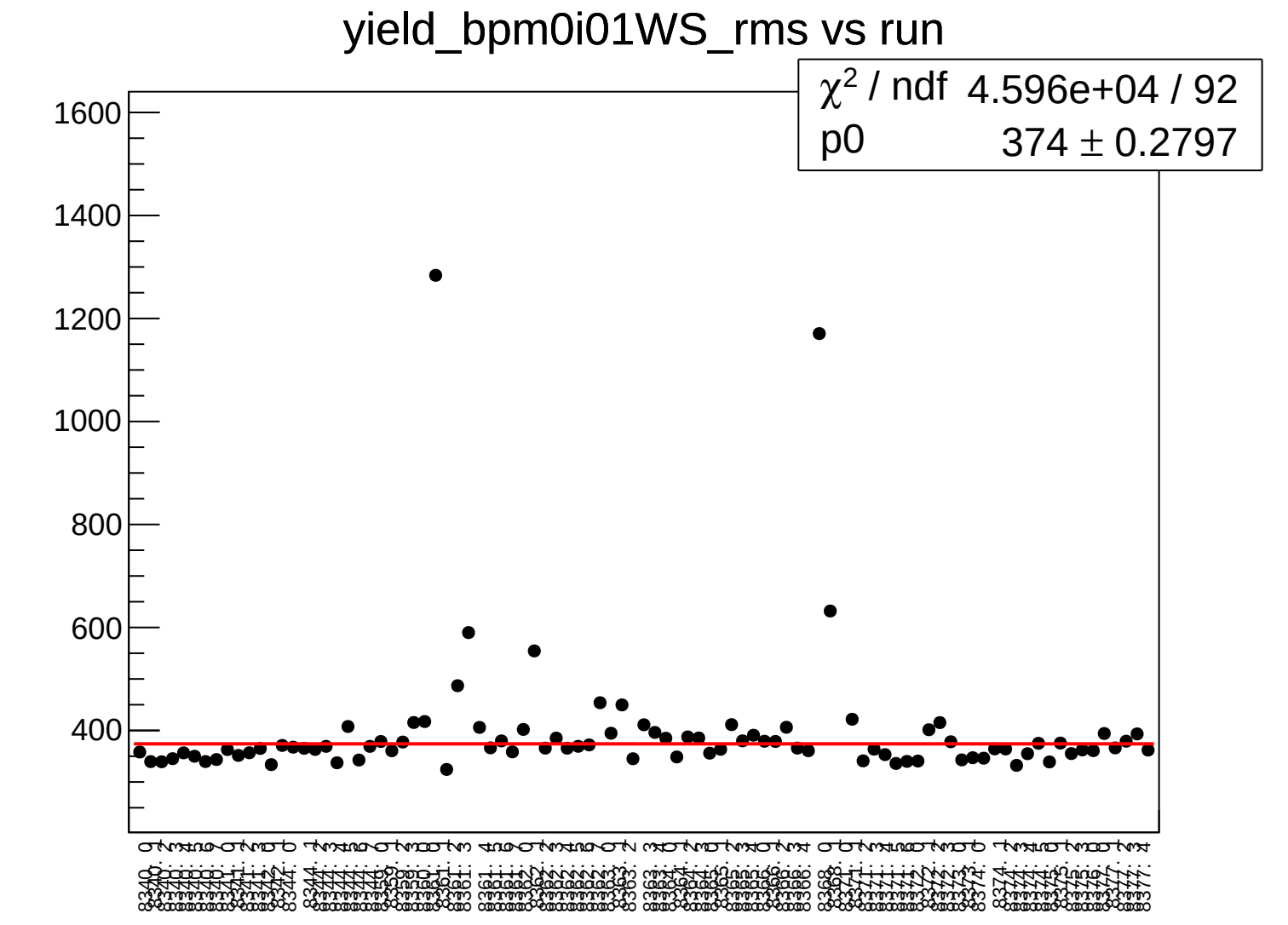

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.998e+06 / 92
p0 1.411e+05 ± 0.3668
141.5
141
140.5
140
139.5
pull
Entries 93
Mean 1855
Std Dev 0
100
0
−100
−200
−300

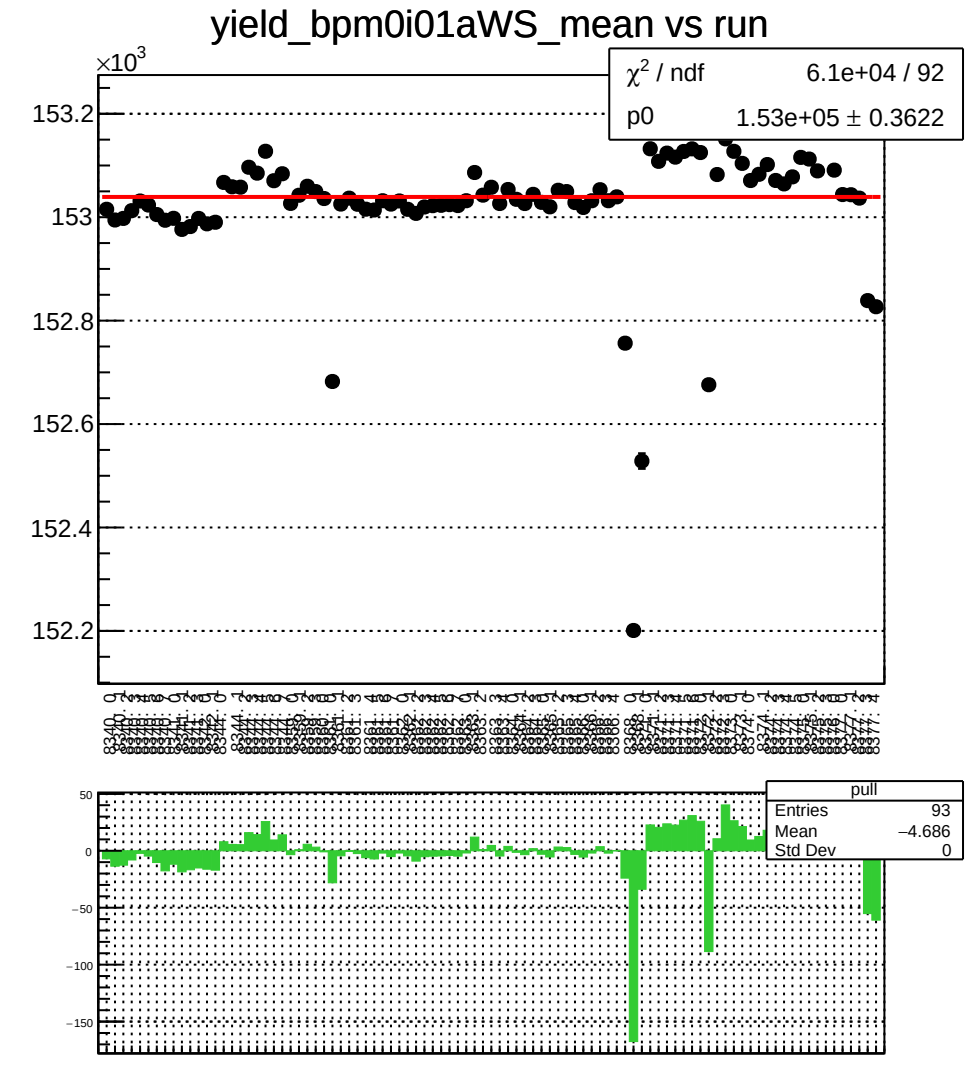

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

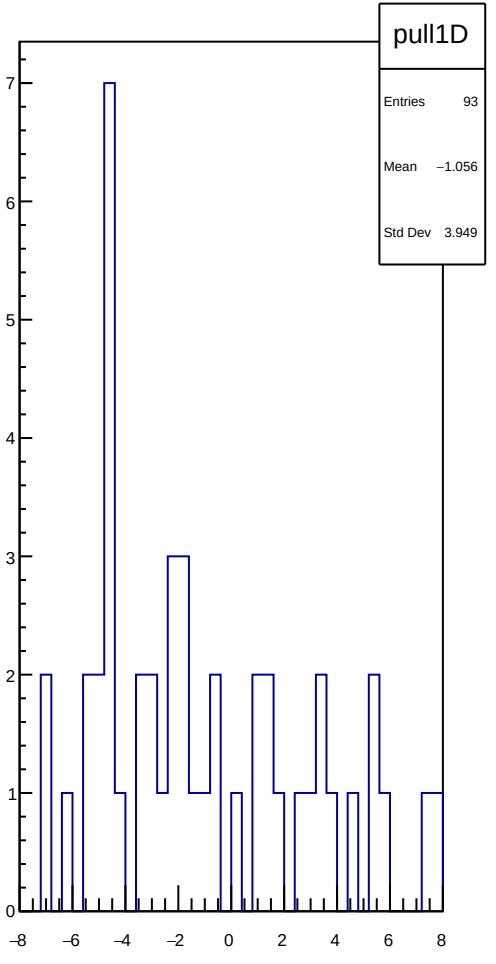

yield_bpm0i07WS_rms vs run
χ² / ndf 5.61e+04 / 92
p0 345.8 ± 0.2594
1800
1600
1400
1200
1000
800
600
400
200

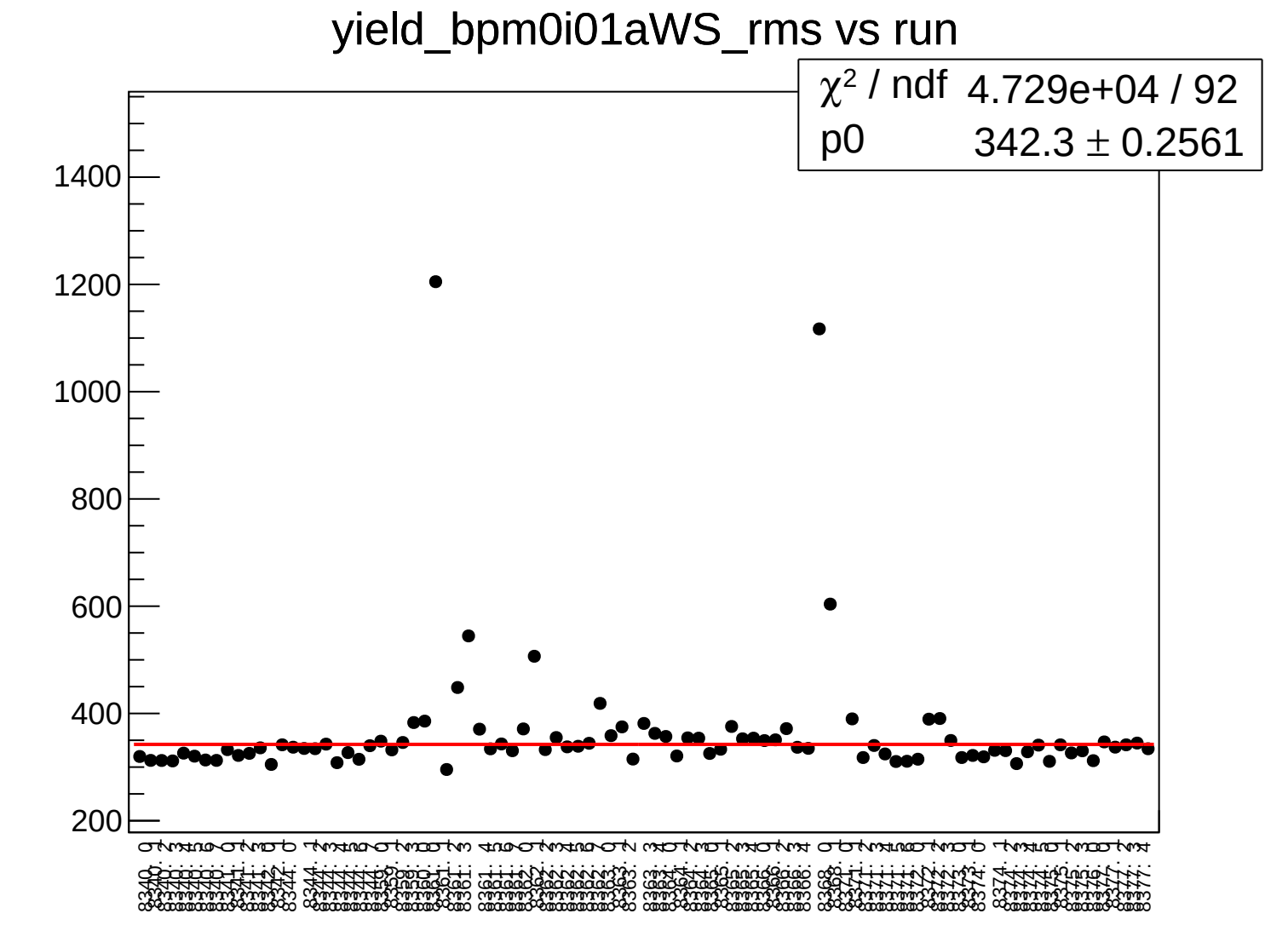

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.301e+05 / 92
p0 1.602e+05 ± 0.3956
160.6
160.4
160.2
160
159.8
159.6
pull
Entries 93
Mean 155
Std Dev 0
100
50
0
−50
−100

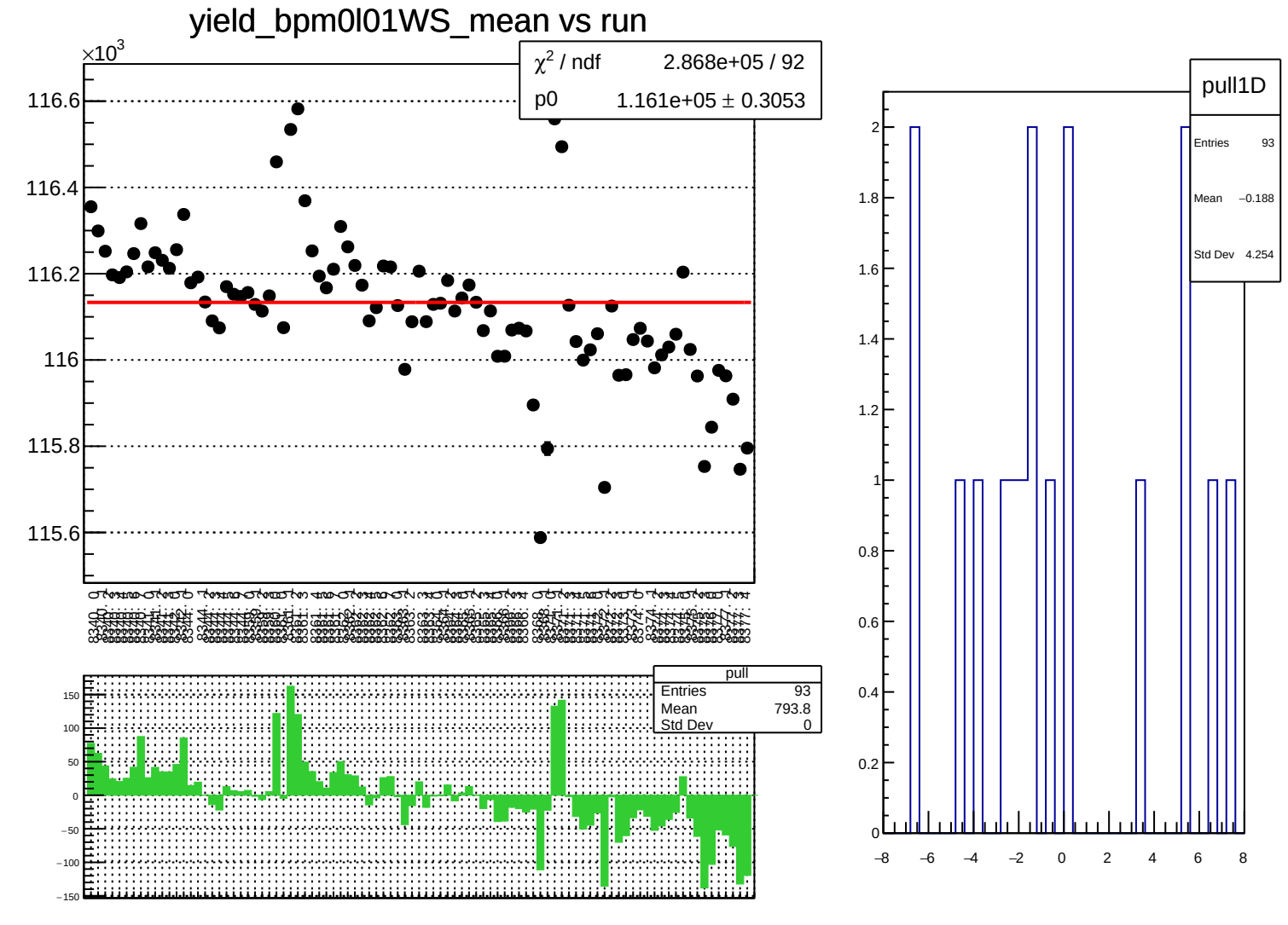

pull1D
Entries 93
Mean 0.1989
Std Dev 4.442
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

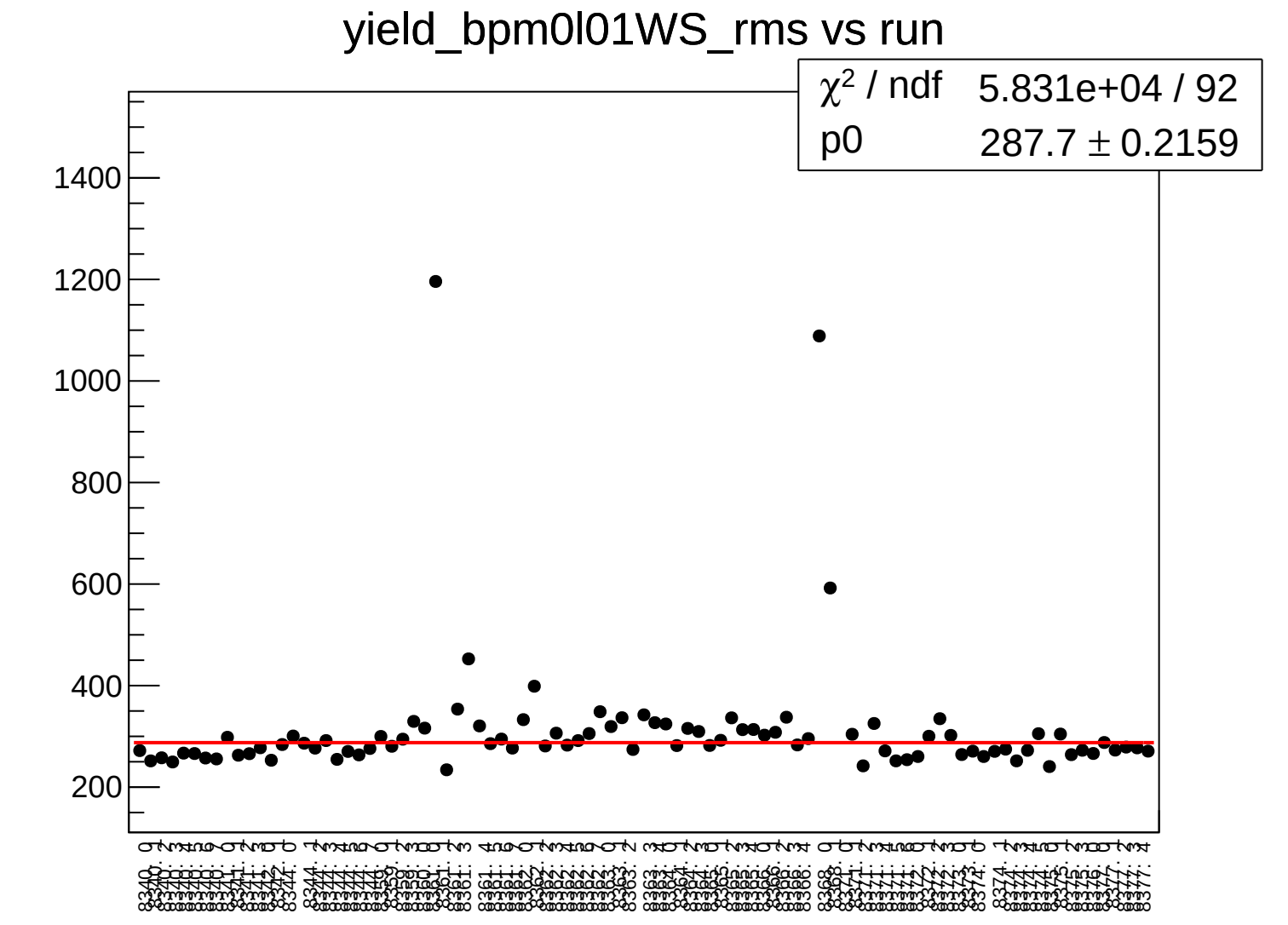

yield_bpm0i01WS_rms vs run
χ² / ndf 4.596e+04 / 92
p0 374 ± 0.2797
1600
1400
1200
1000
800
600
400

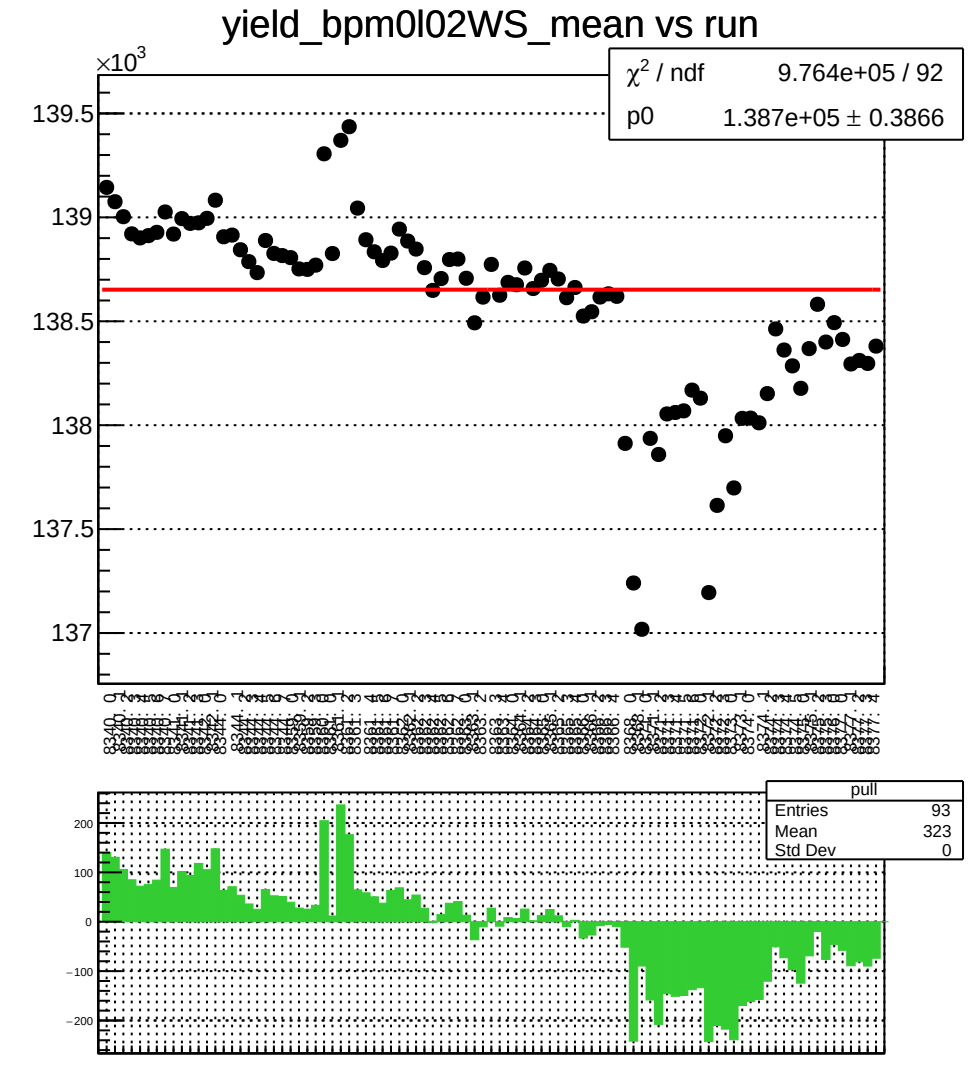

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6.1e+04 / 92
p0 1.53e+05 ± 0.3622
153.2
153
152.8
152.6
152.4
152.2
pull
Entries 93
Mean −4.686
Std Dev 0
50
0
−50
−100
−150

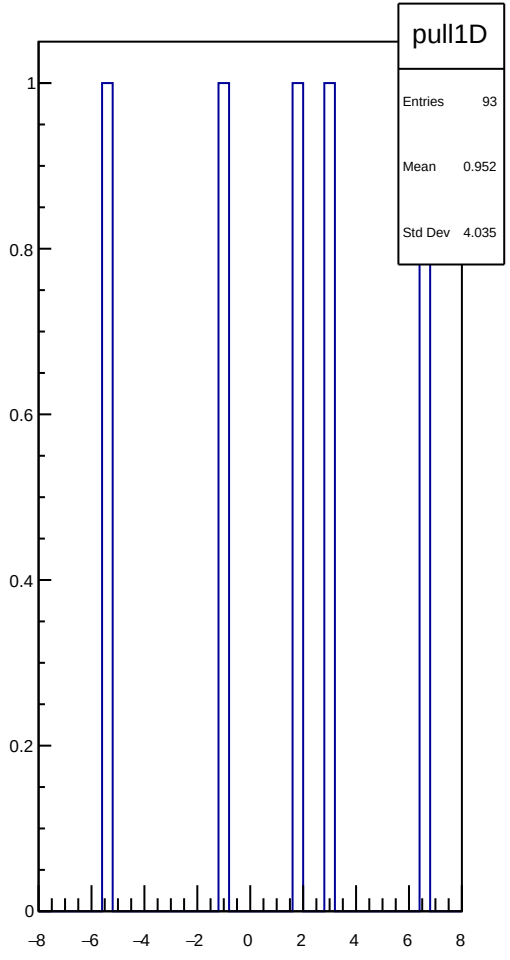

pull1D
Entries 93
Mean −1.056
Std Dev 3.949
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

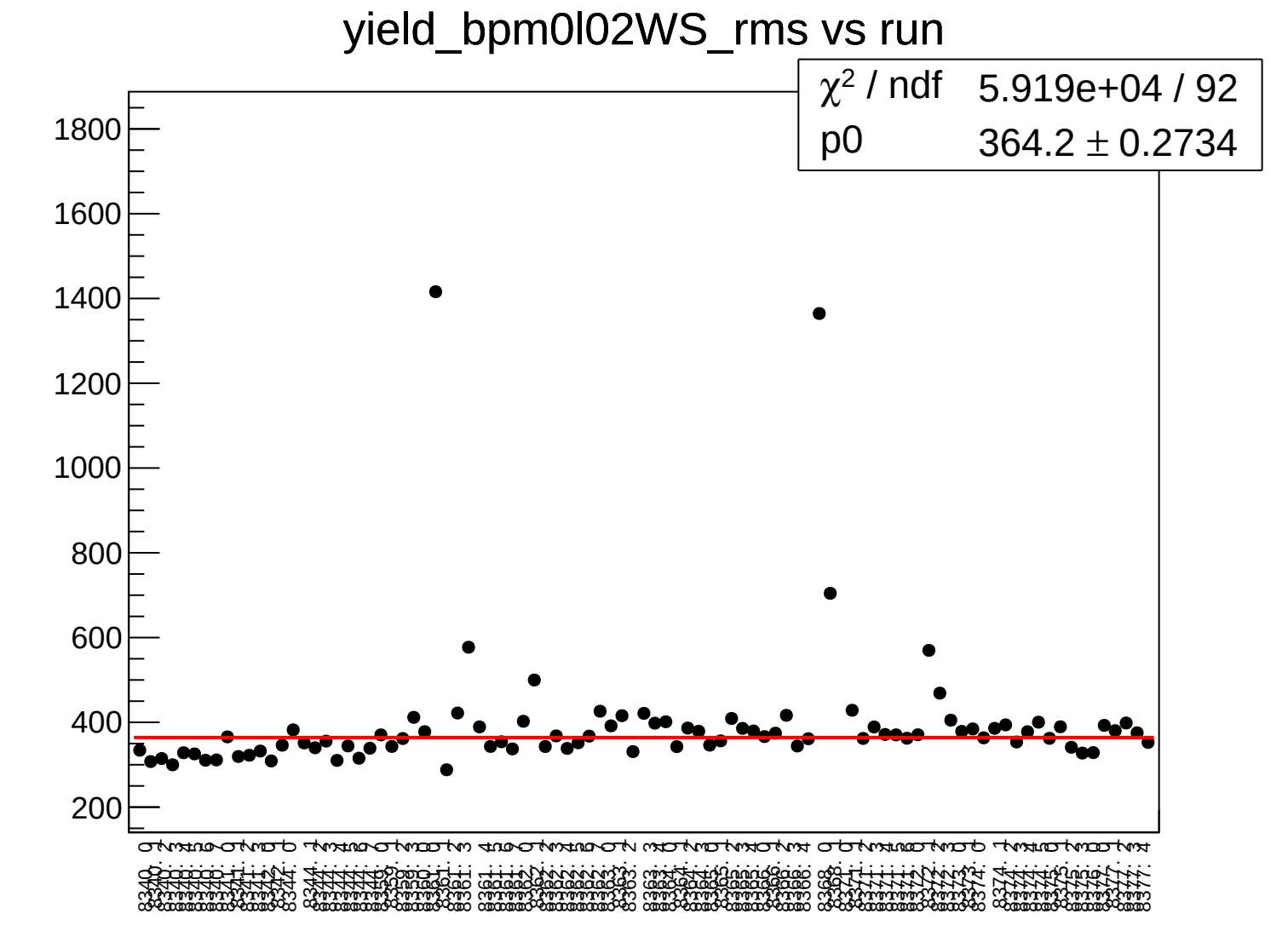

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.729e+04 / 92
p0 342.3 ± 0.2561
1400
1200
1000
800
600
400
200

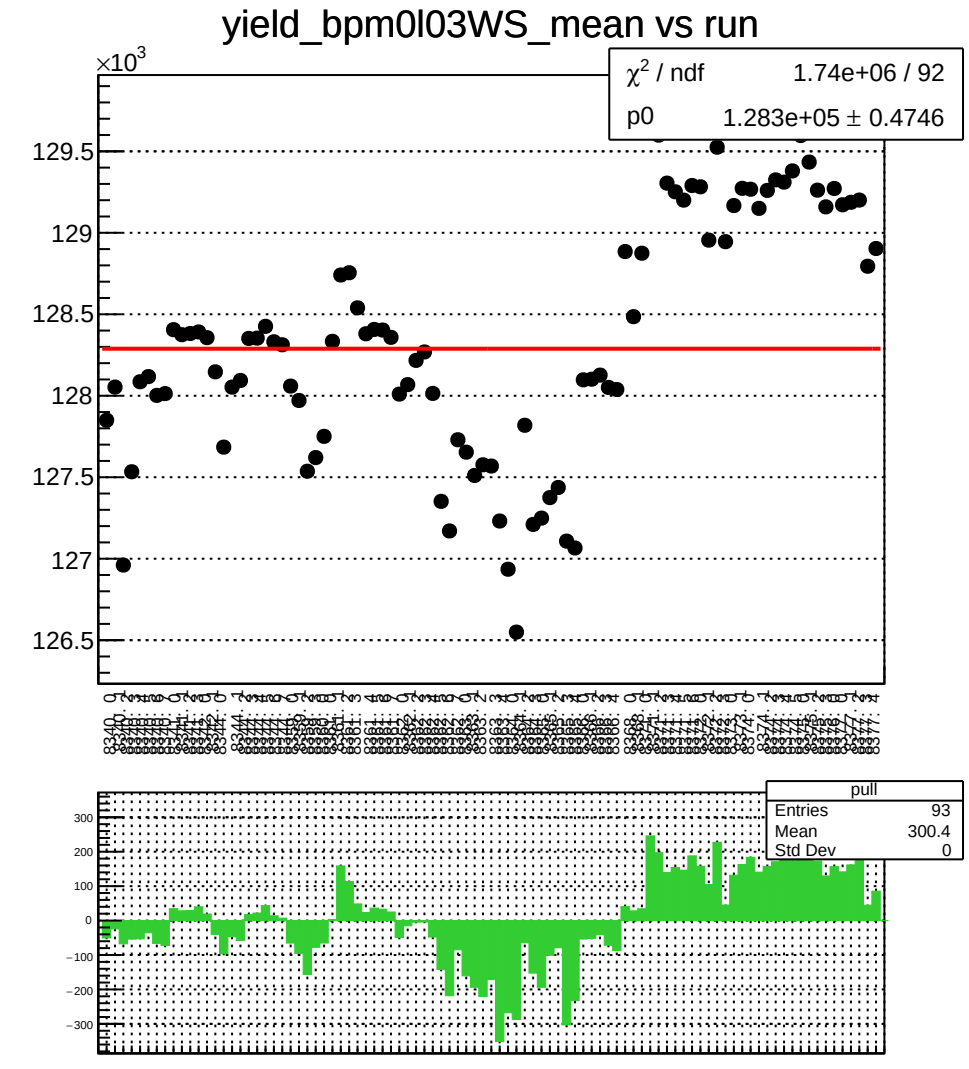

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.868e+05 / 92
p0 1.161e+05 ± 0.3053
116.6
116.4
116.2
116
115.8
115.6
pull
Entries 93
Mean 793.8
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 93
Mean −0.188
Std Dev 4.254
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

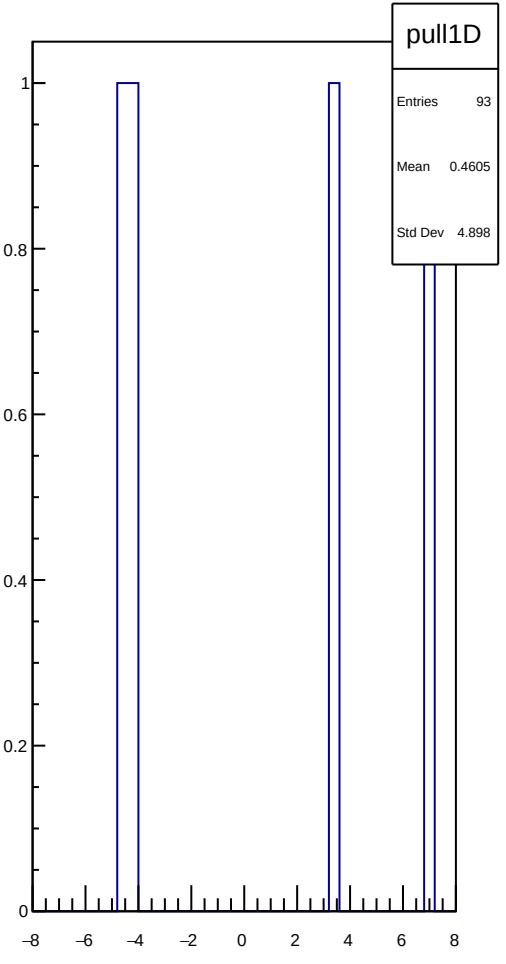

yield_bpm0l01WS_rms vs run
χ² / ndf 5.831e+04 / 92
p0 287.7 ± 0.2159
1400
1200
1000
800
600
400
200

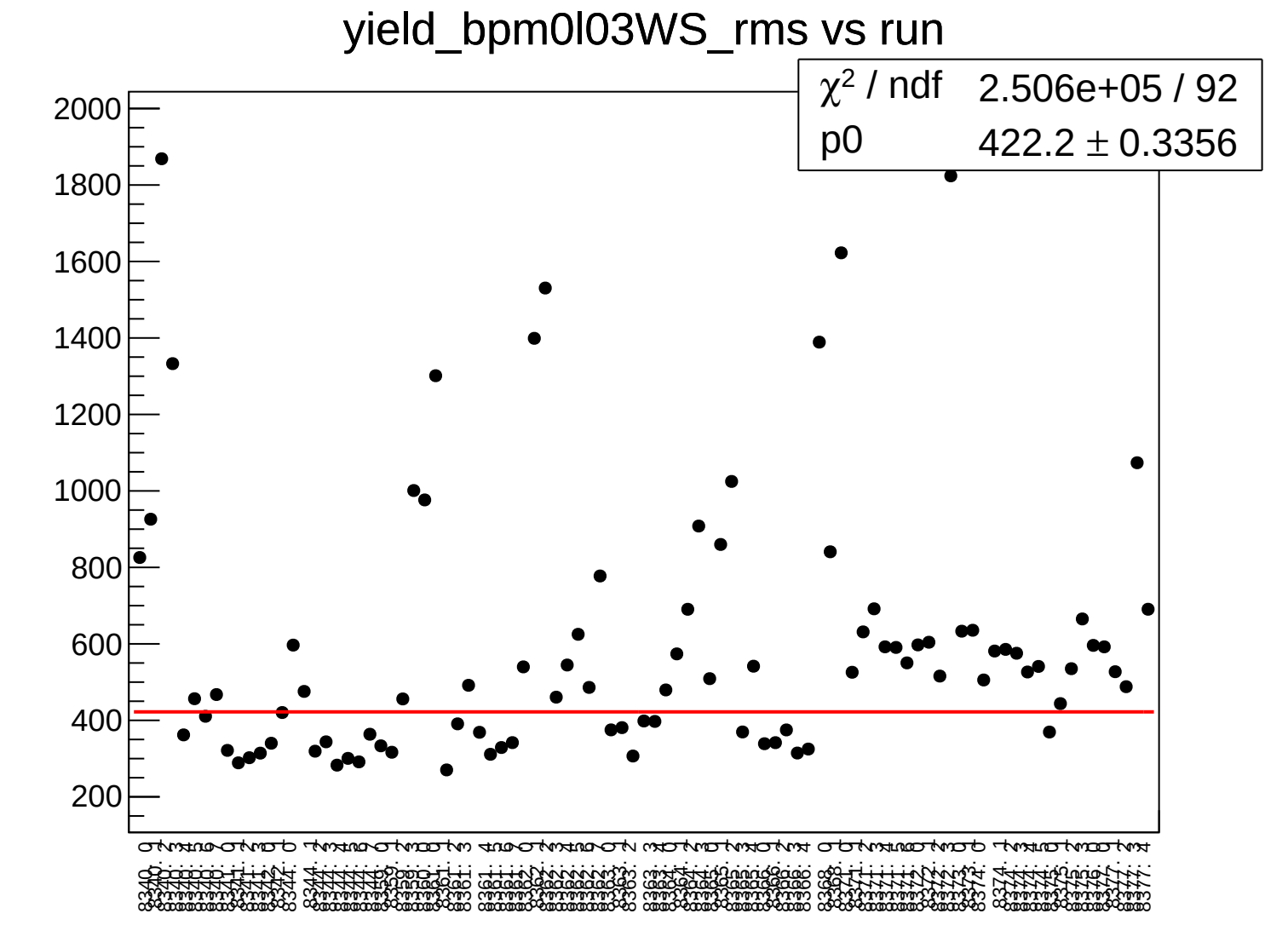

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 9.764e+05 / 92
p0 1.387e+05 ± 0.3866
139.5
139
138.5
138
137.5
137
pull
Entries 93
Mean 323
Std Dev 0
200
100
0
−100
−200

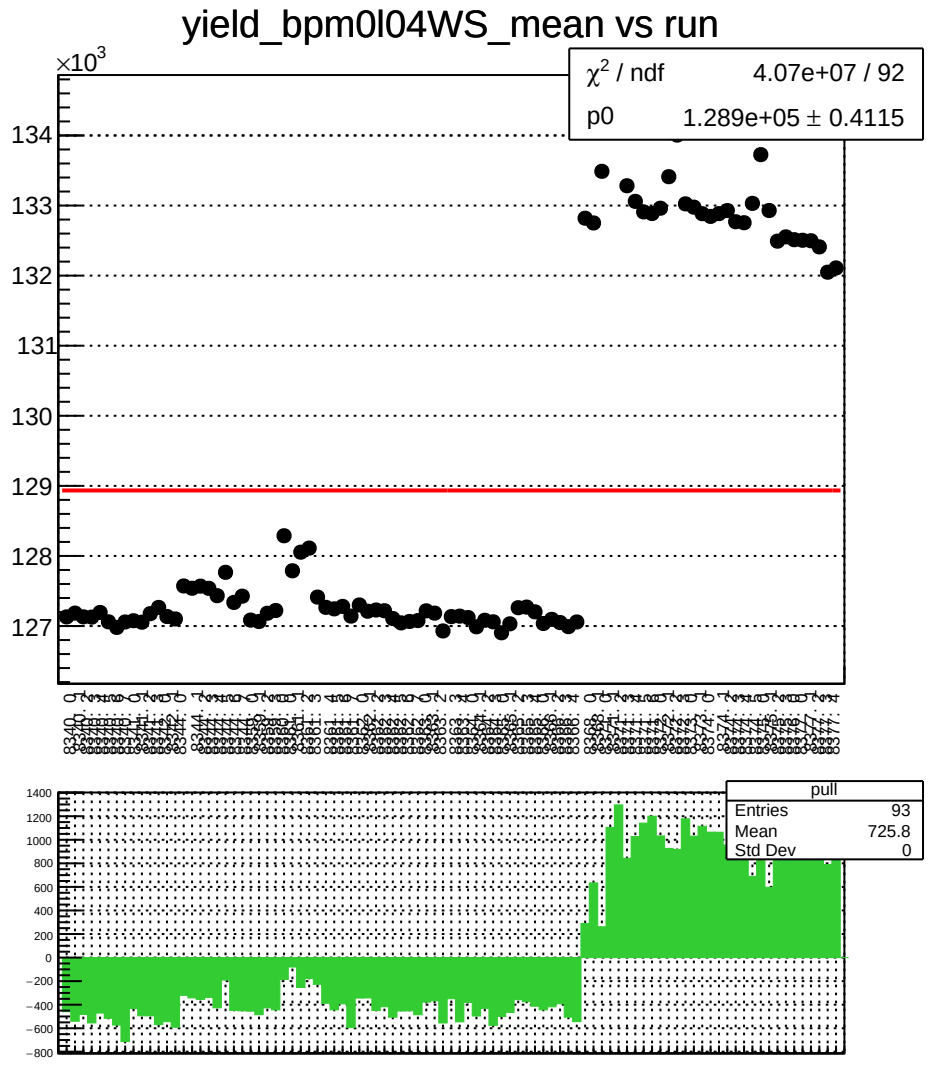

pull1D
Entries 93
Mean 0.952
Std Dev 4.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

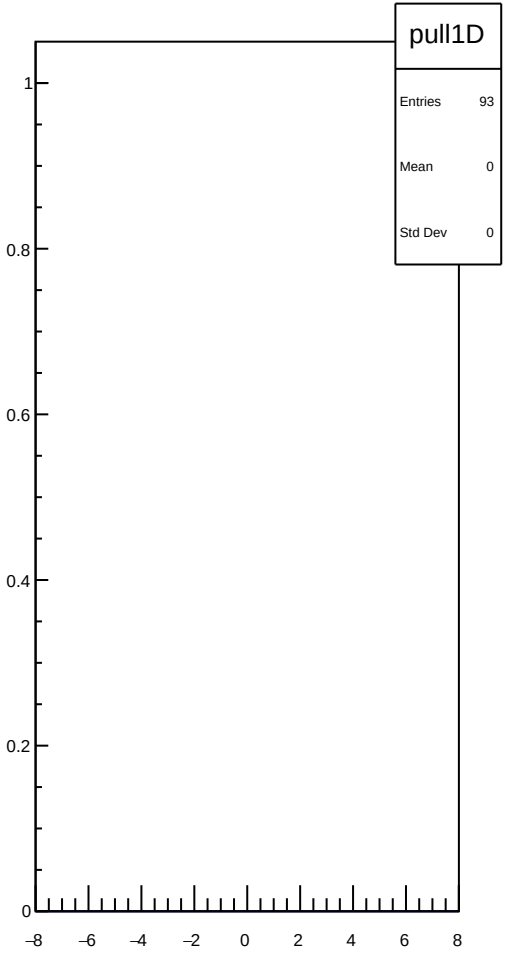

yield_bpm0l02WS_rms vs run
χ² / ndf 5.919e+04 / 92
p0 364.2 ± 0.2734
1800
1600
1400
1200
1000
800
600
400
200

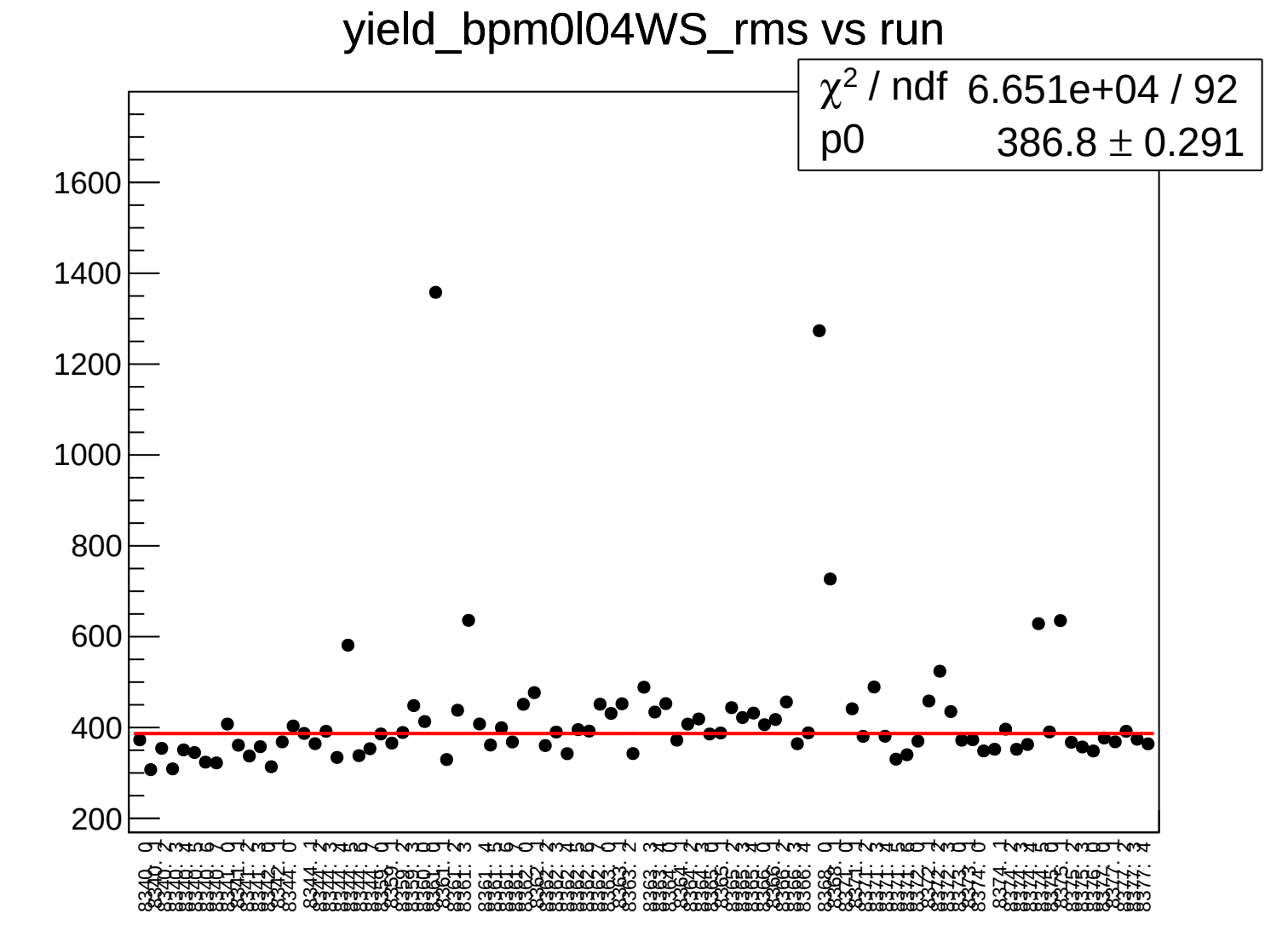

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.74e+06 / 92
p0 1.283e+05 ± 0.4746
129.5
129
128.5
128
127.5
127
126.5
pull
Entries 93
Mean 300.4
Std Dev 0
300
200
100
0
−100
−200
−300

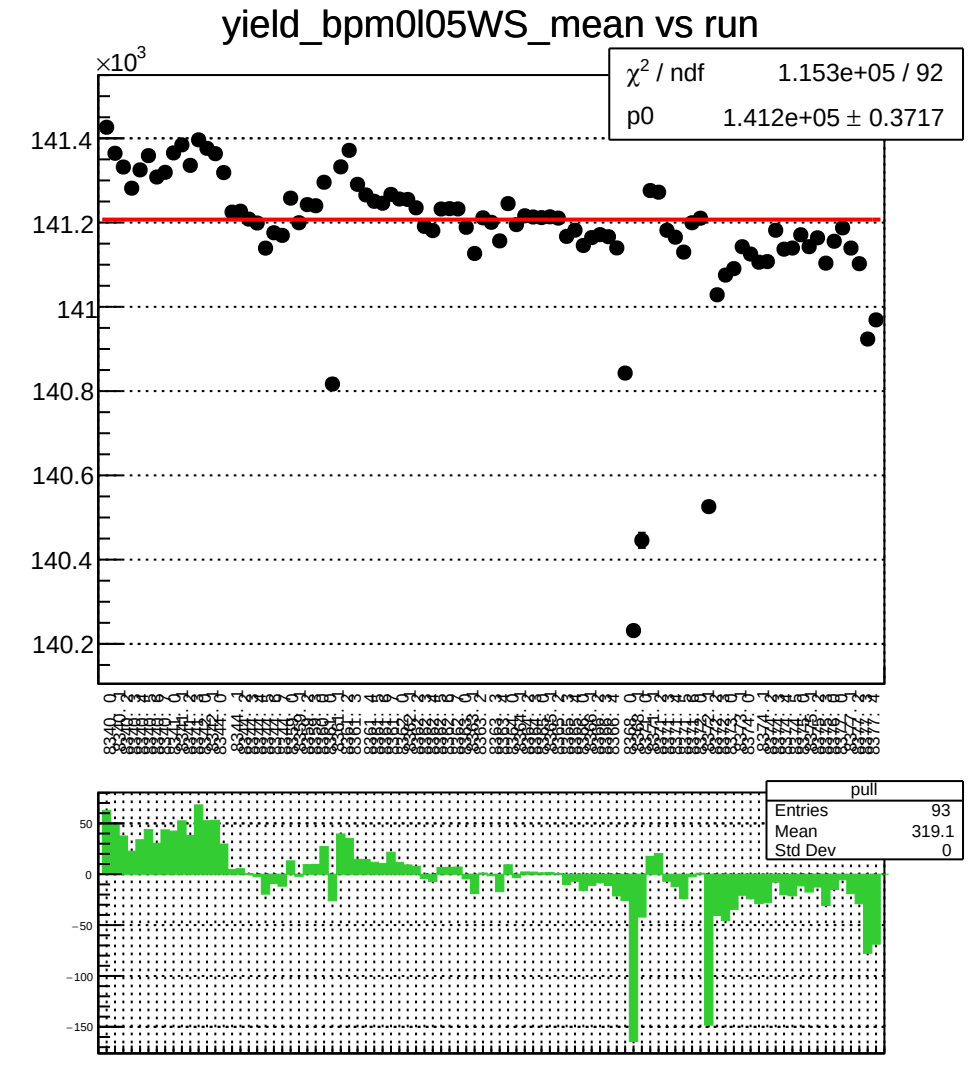

pull1D
Entries 93
Mean 0.4605
Std Dev 4.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

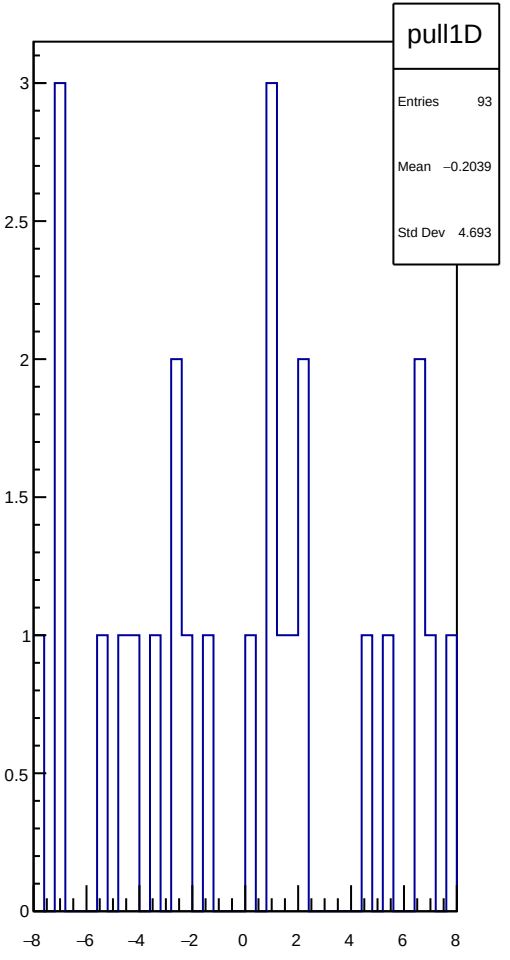

yield_bpm0l03WS_rms vs run
χ² / ndf 2.506e+05 / 92
p0 422.2 ± 0.3356
2000
1800
1600
1400
1200
1000
800
600
400
200

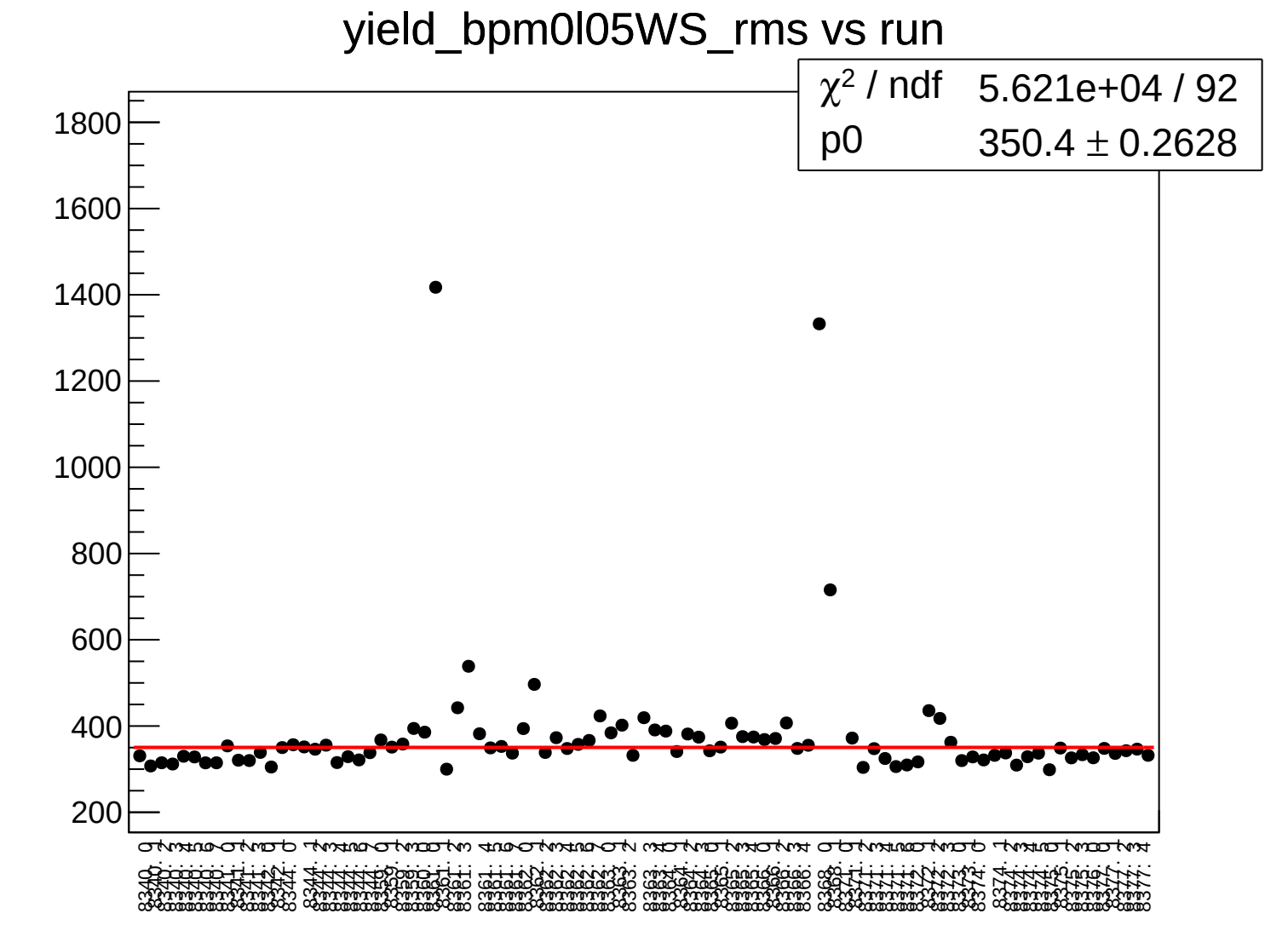

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.07e+07 / 92
p0 1.289e+05 ± 0.4115
134
133
132
131
130
129
128
127
pull
Entries 93
Mean 725.8
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

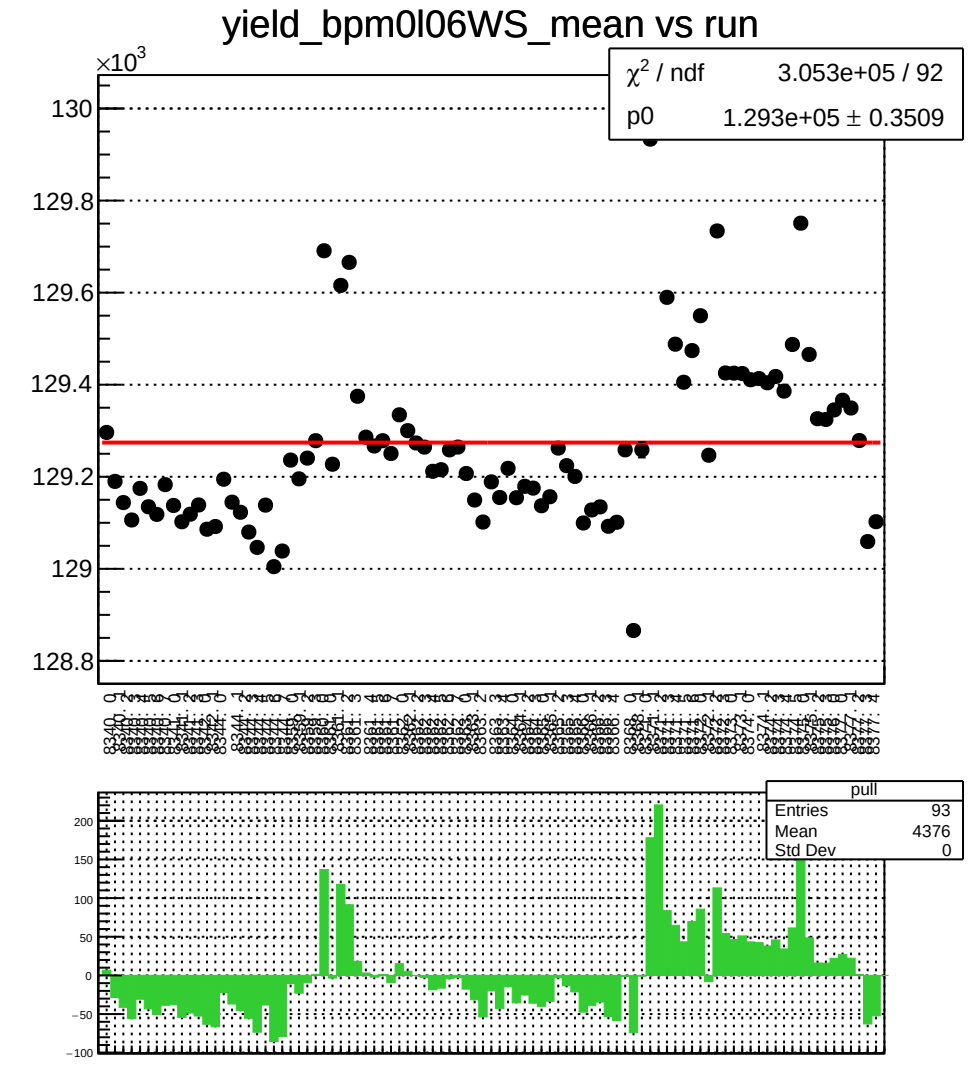

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

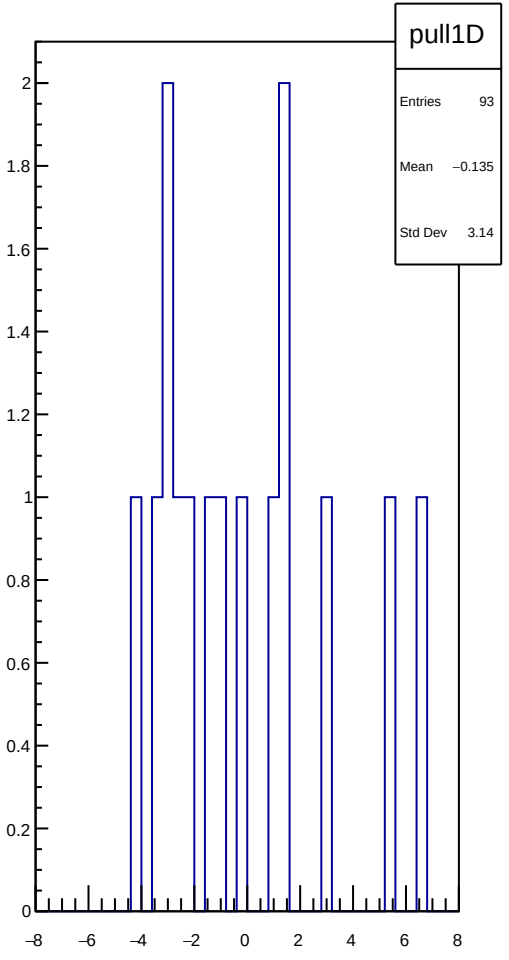

yield_bpm0l04WS_rms vs run
χ² / ndf 6.651e+04 / 92
p0 386.8 ± 0.291
1600
1400
1200
1000
800
600
400
200

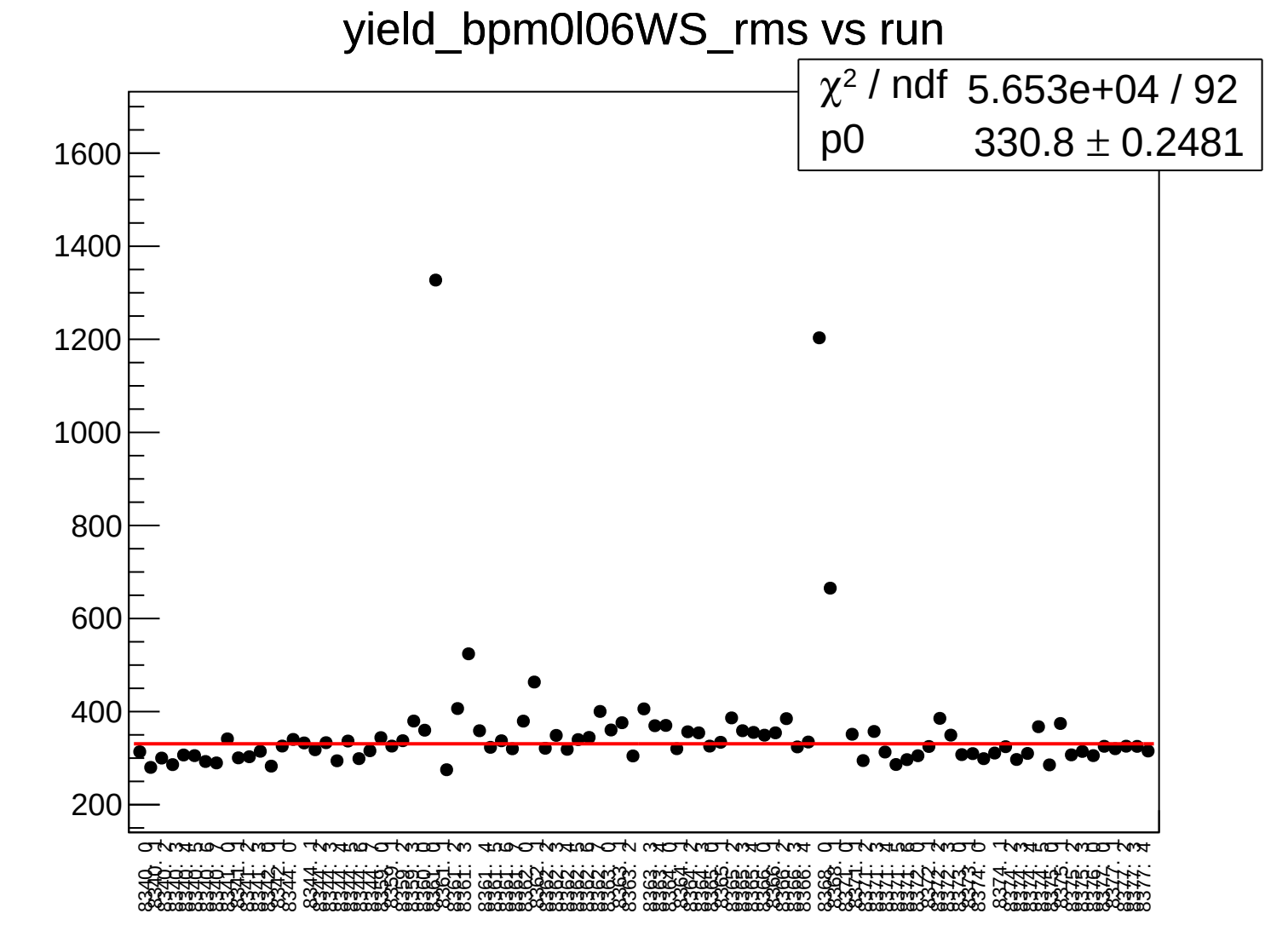

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 1.153e+05 / 92
p0 1.412e+05 ± 0.3717
141.4
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 93
Mean 319.1
Std Dev 0
50
0
−50
−100
−150

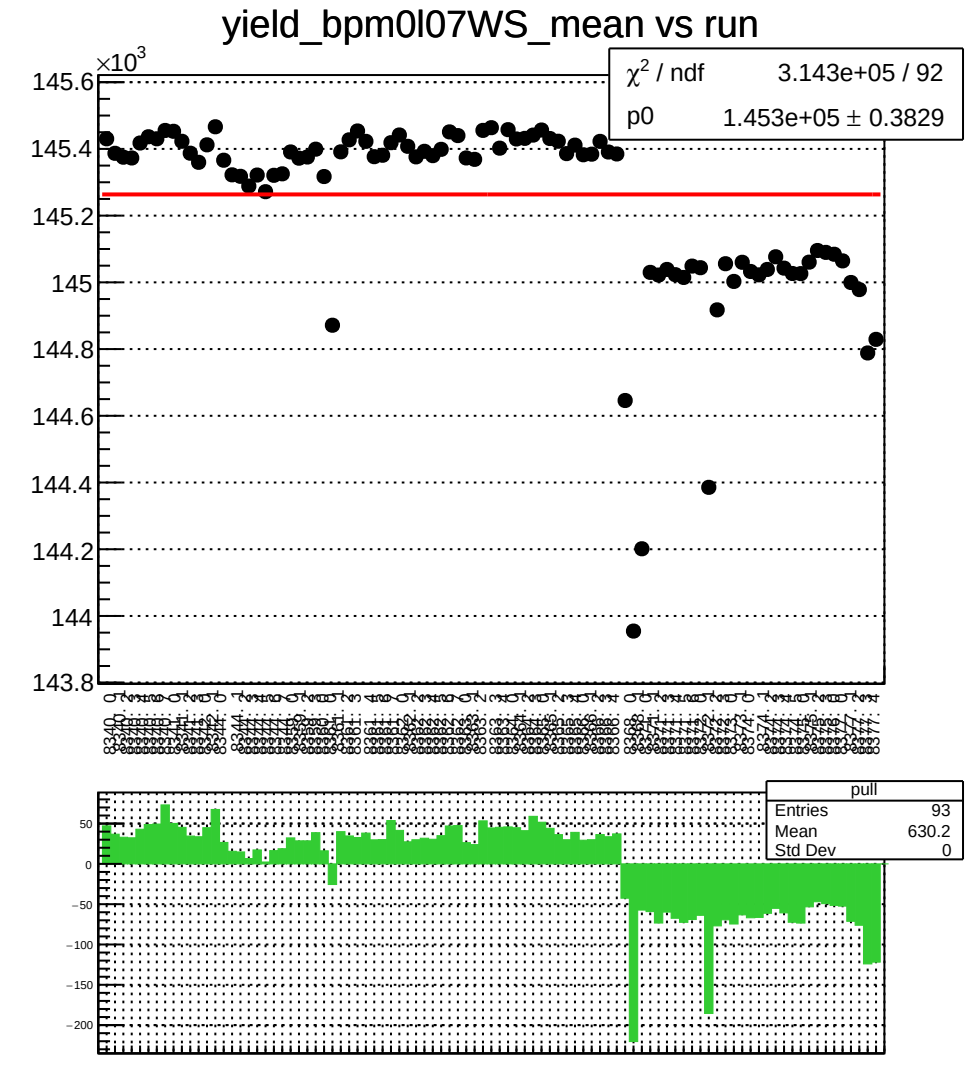

pull1D
Entries 93
Mean −0.2039
Std Dev 4.693
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

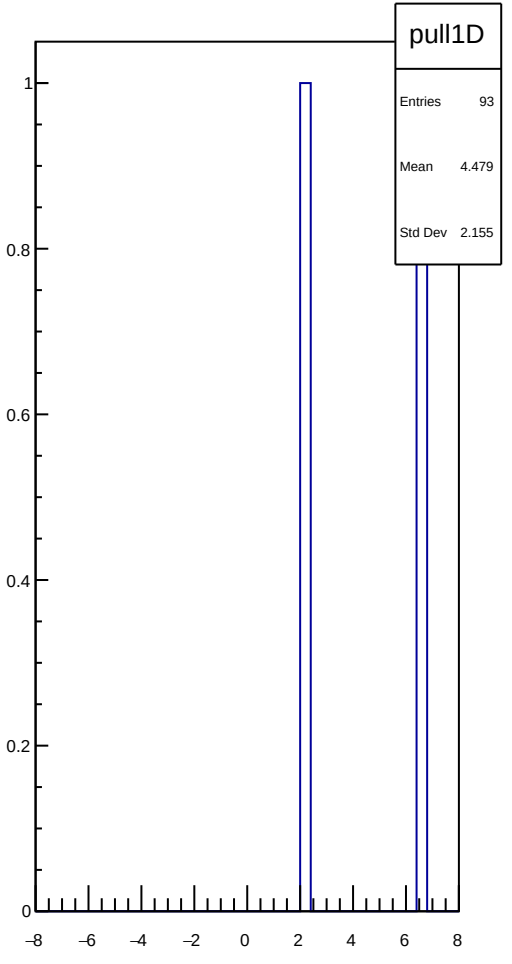

yield_bpm0l05WS_rms vs run
χ² / ndf 5.621e+04 / 92
p0 350.4 ± 0.2628
1800
1600
1400
1200
1000
800
600
400
200

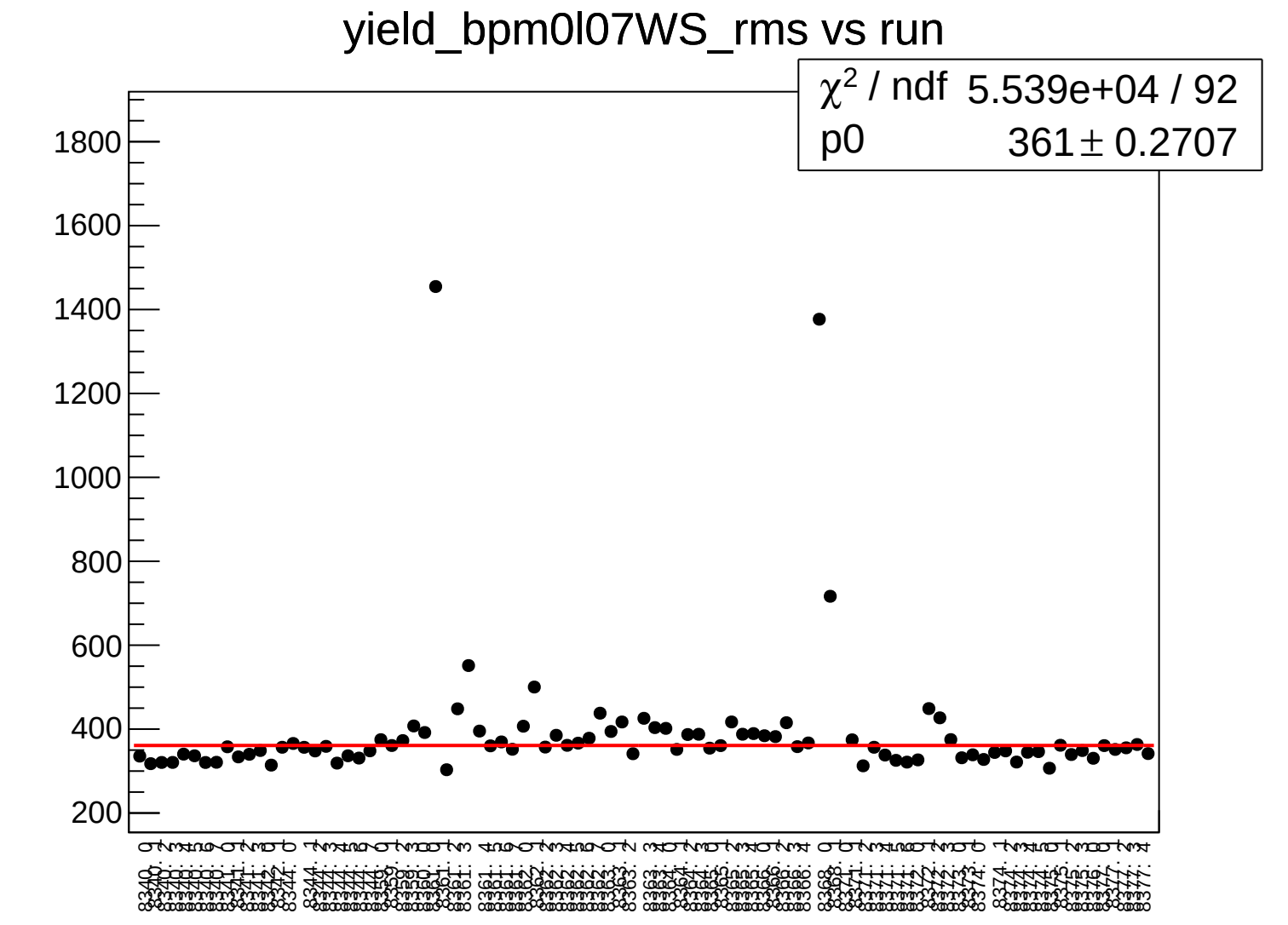

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.053e+05 / 92
p0 1.293e+05 ± 0.3509
130
129.8
129.6
129.4
129.2
129
128.8
pull
Entries 93
Mean 4376
Std Dev 0
200
150
100
50
0
−50
−100

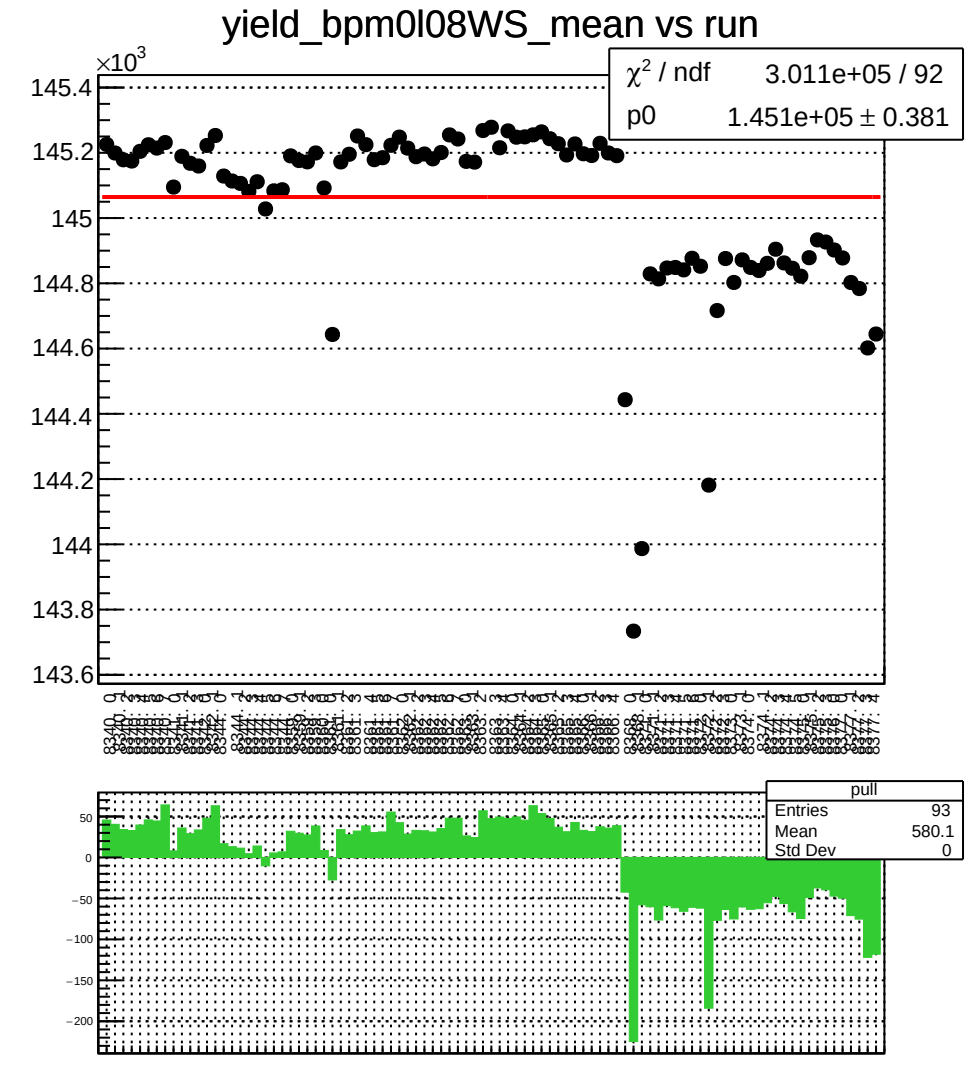

pull1D
Entries 93
Mean −0.135
Std Dev 3.14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

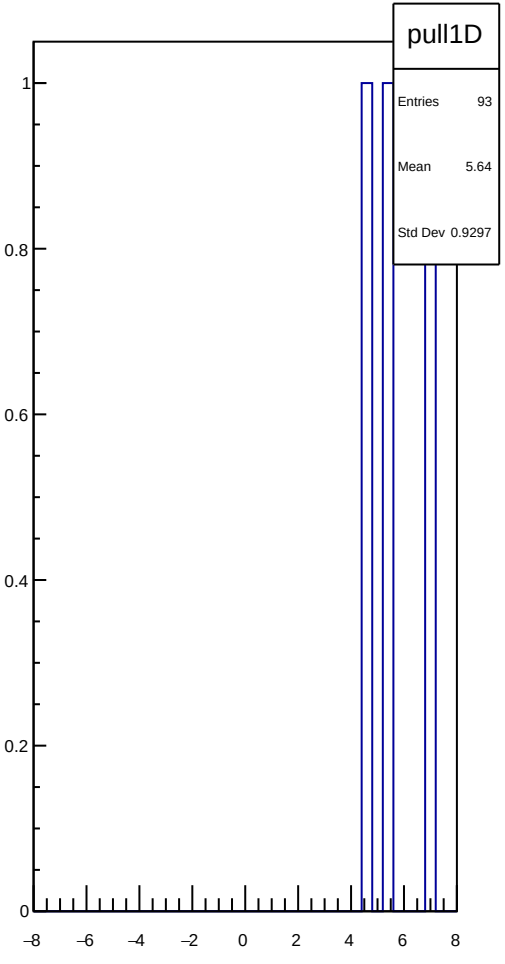

yield_bpm0l06WS_rms vs run
χ² / ndf 5.653e+04 / 92
p0 330.8 ± 0.2481
1600
1400
1200
1000
800
600
400
200

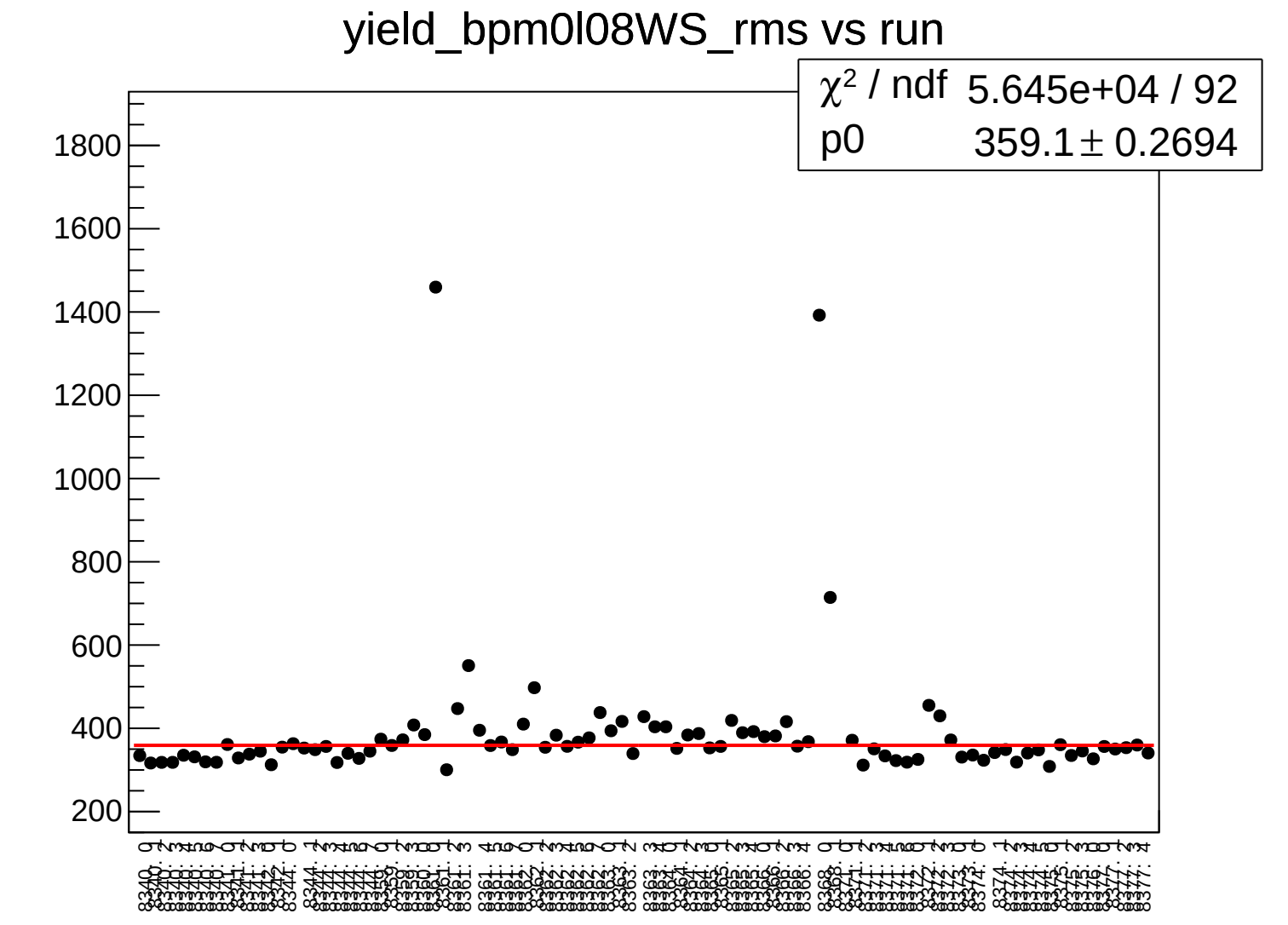

yield_bpm0l07WS_mean vs run
×10^3
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
χ² / ndf 3.143e+05 / 92
p0 1.453e+05 ± 0.3829
pull
Entries 93
Mean 630.2
Std Dev 0
50
0
−50
−100
−150
−200

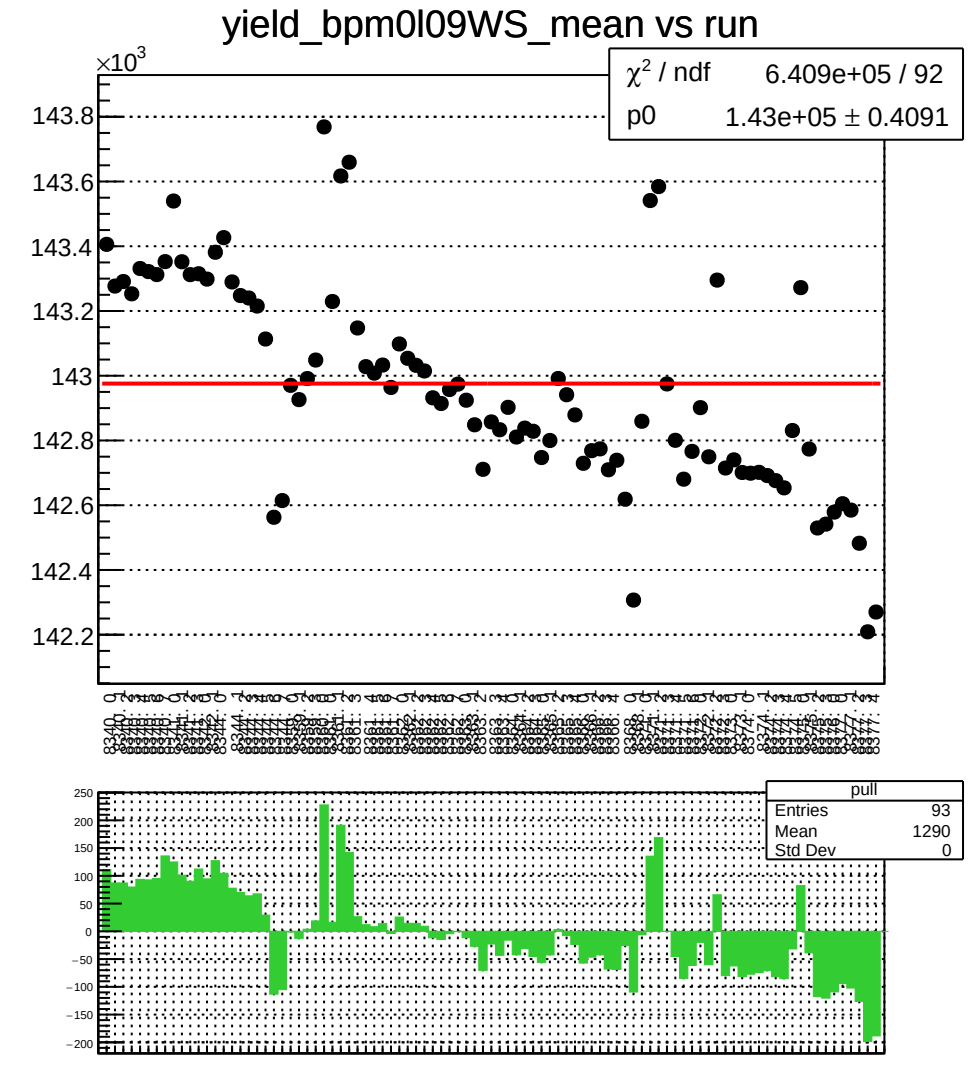

pull1D
Entries 93
Mean 4.479
Std Dev 2.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

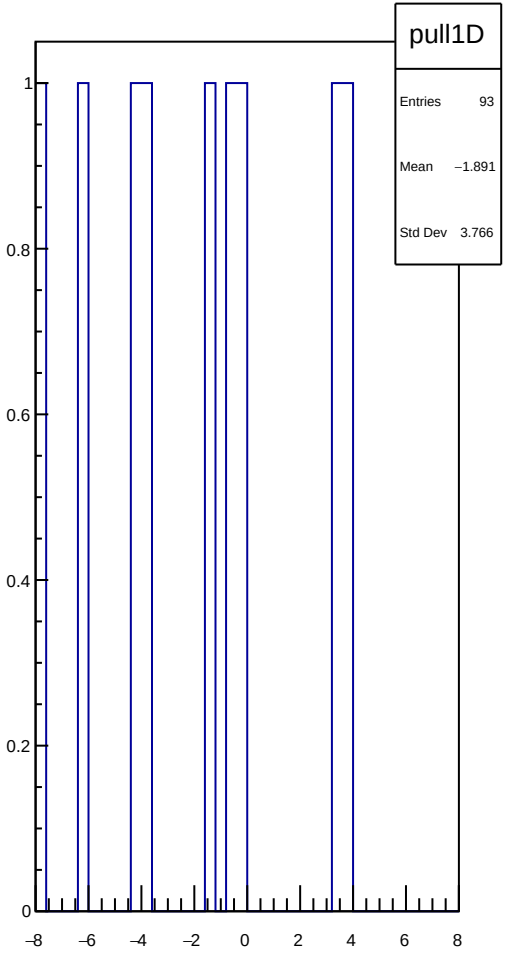

yield_bpm0l07WS_rms vs run
χ² / ndf 5.539e+04 / 92
p0 361 ± 0.2707
1800
1600
1400
1200
1000
800
600
400
200

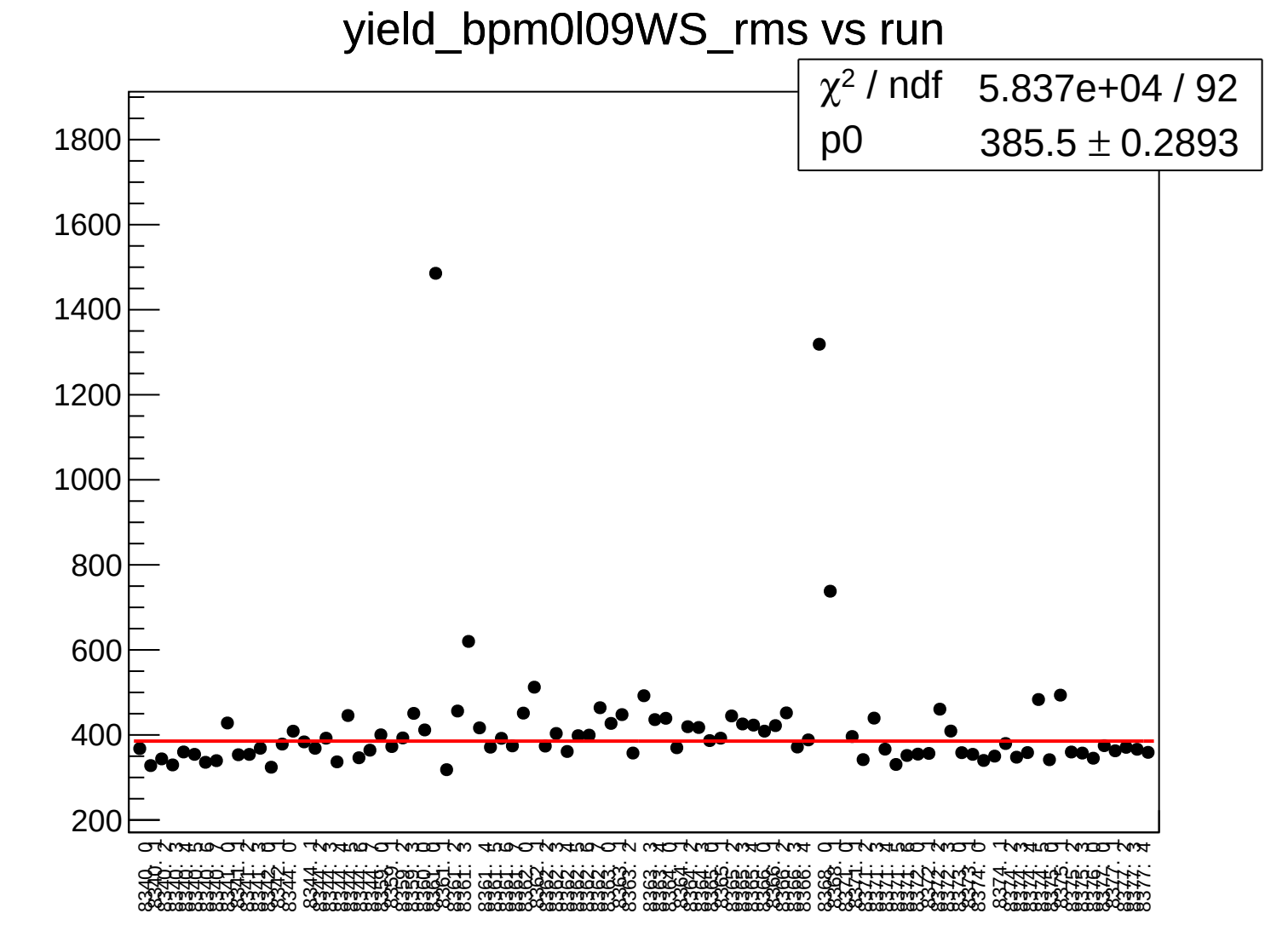

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 3.011e+05 / 92
p0 1.451e+05 ± 0.381
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 93
Mean 580.1
Std Dev 0
50
0
−50
−100
−150
−200

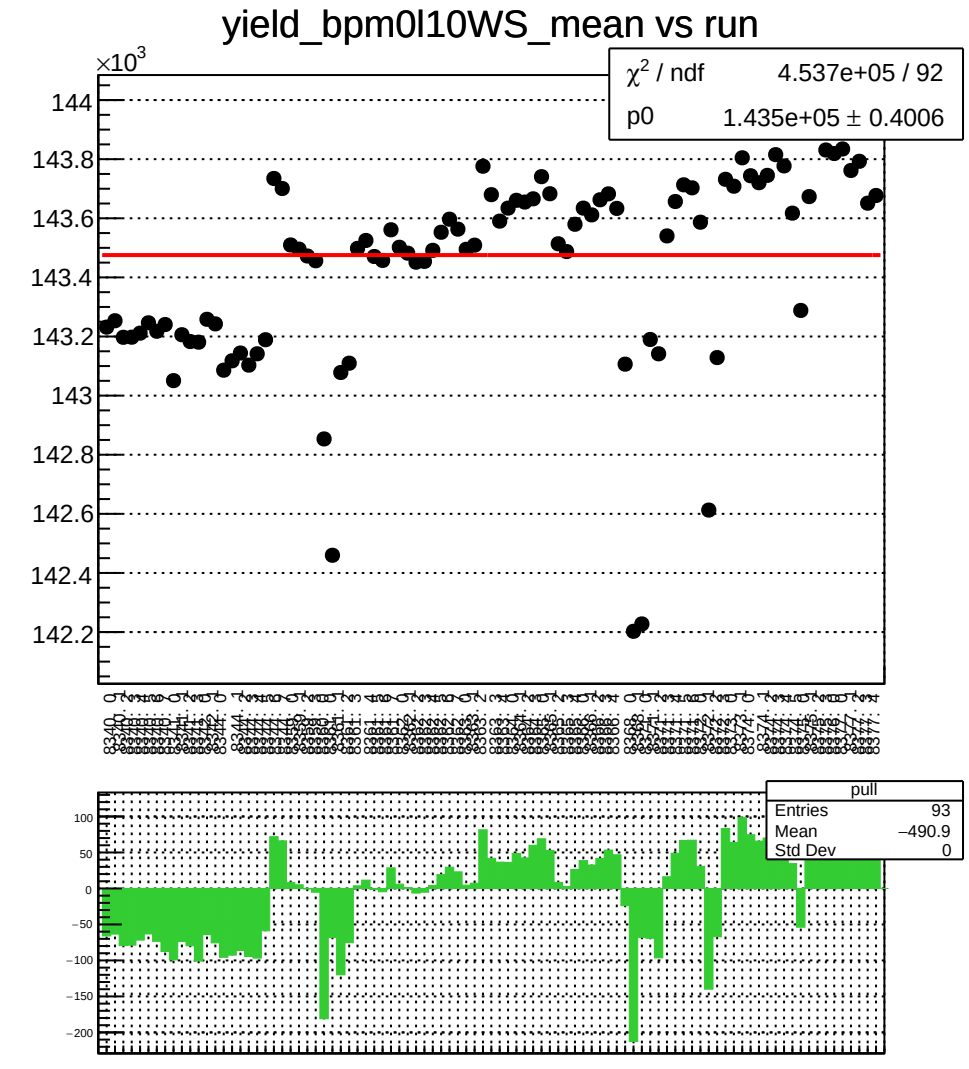

pull1D
Entries 93
Mean 5.64
Std Dev 0.9297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

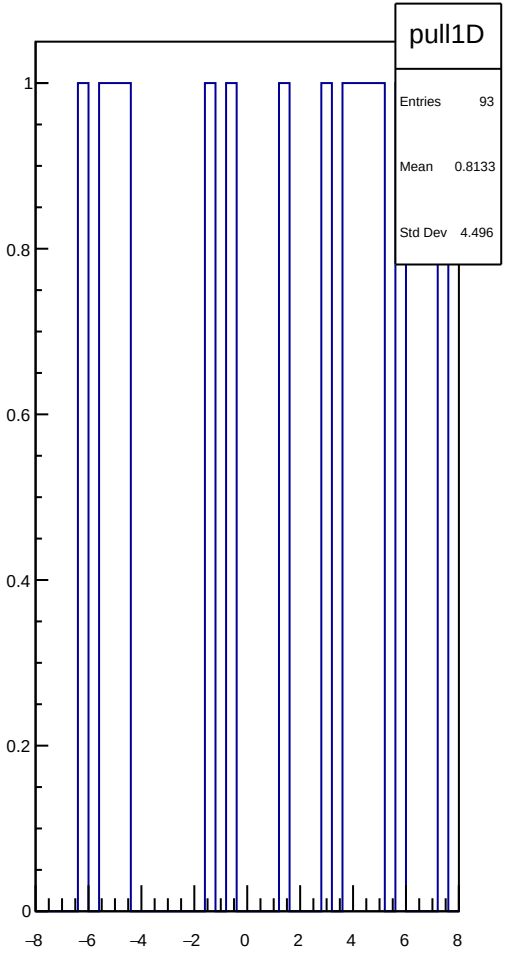

yield_bpm0l08WS_rms vs run
χ² / ndf 5.645e+04 / 92
p0 359.1 ± 0.2694
1800
1600
1400
1200
1000
800
600
400
200

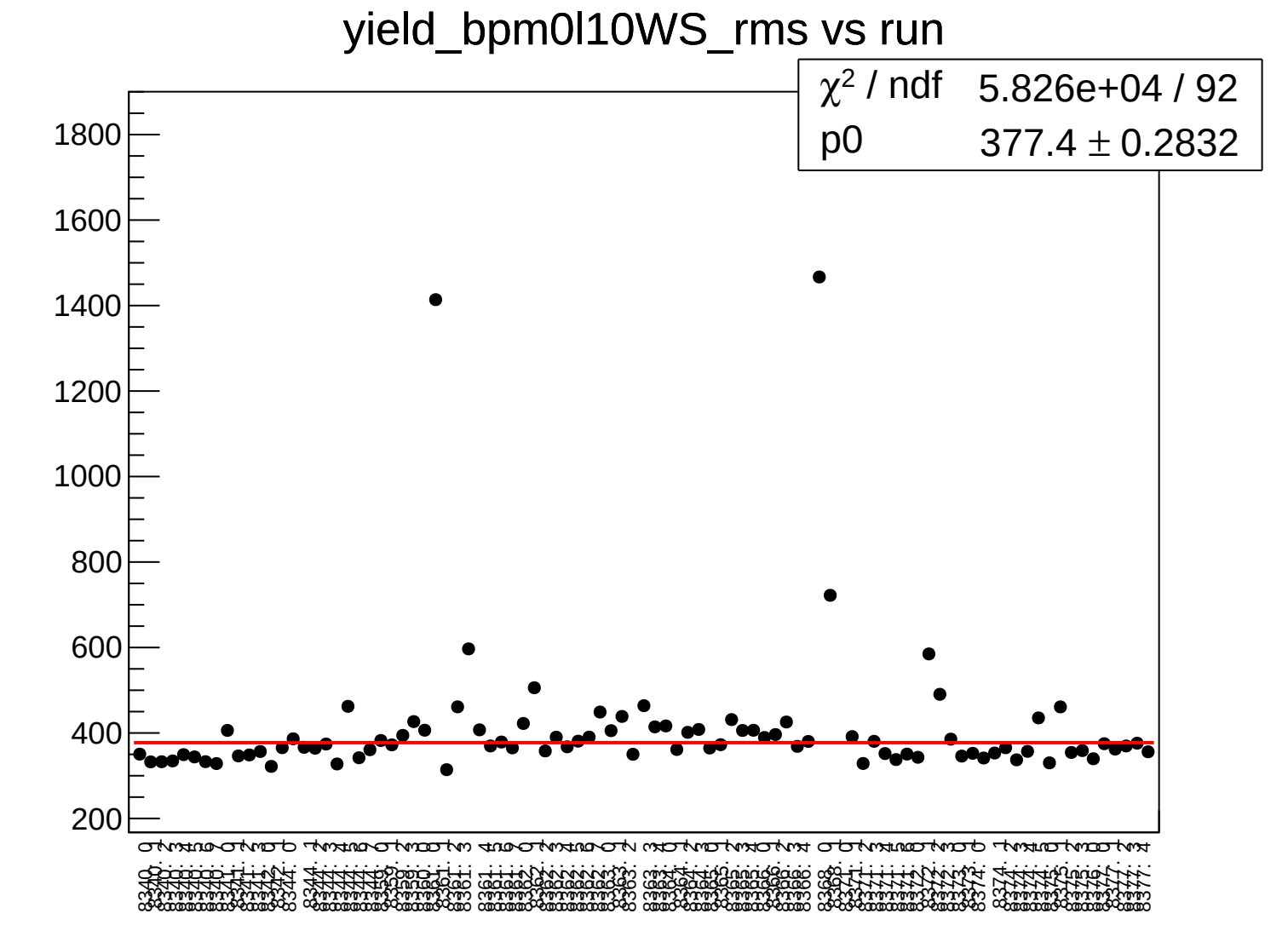

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 6.409e+05 / 92
p0 1.43e+05 ± 0.4091
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
pull
Entries 93
Mean 1290
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

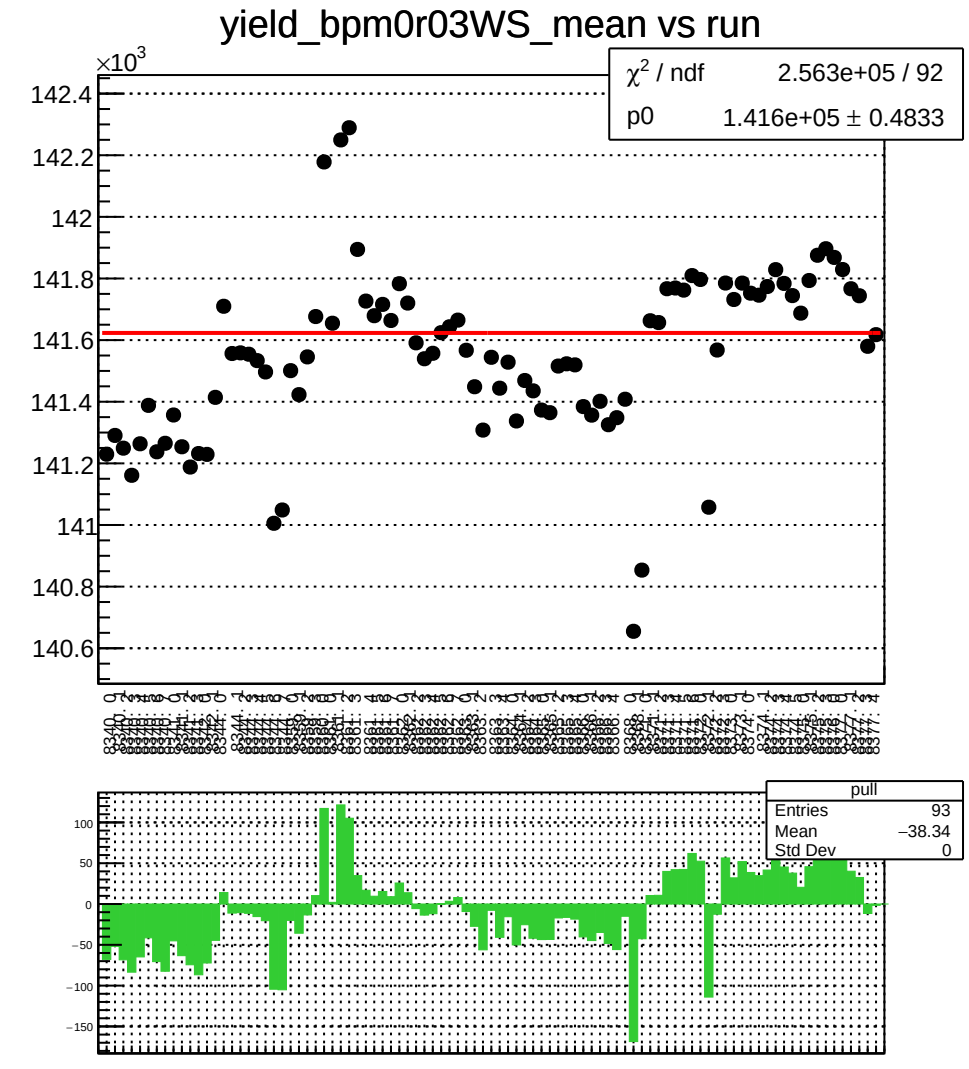

pull1D
Entries 93
Mean −1.891
Std Dev 3.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

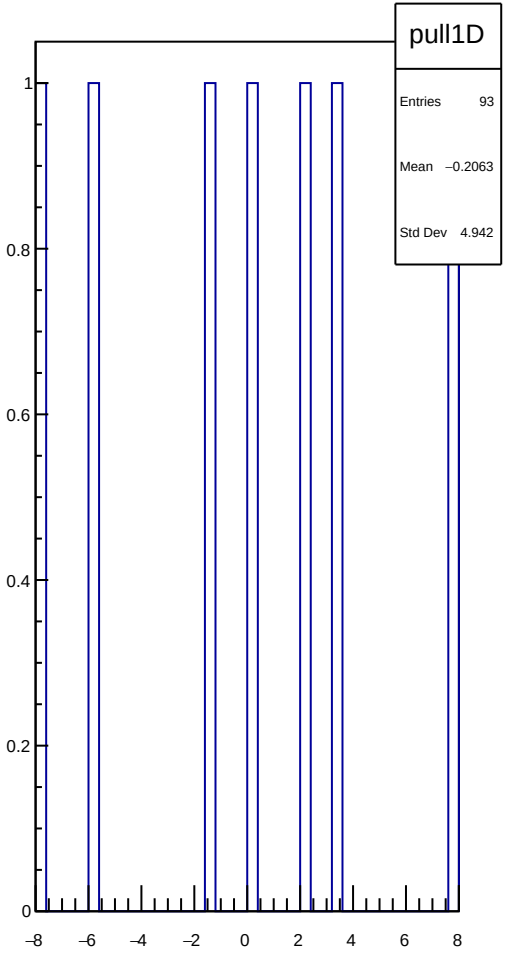

yield_bpm0l09WS_rms vs run
χ² / ndf 5.837e+04 / 92
p0 385.5 ± 0.2893
1800
1600
1400
1200
1000
800
600
400
200

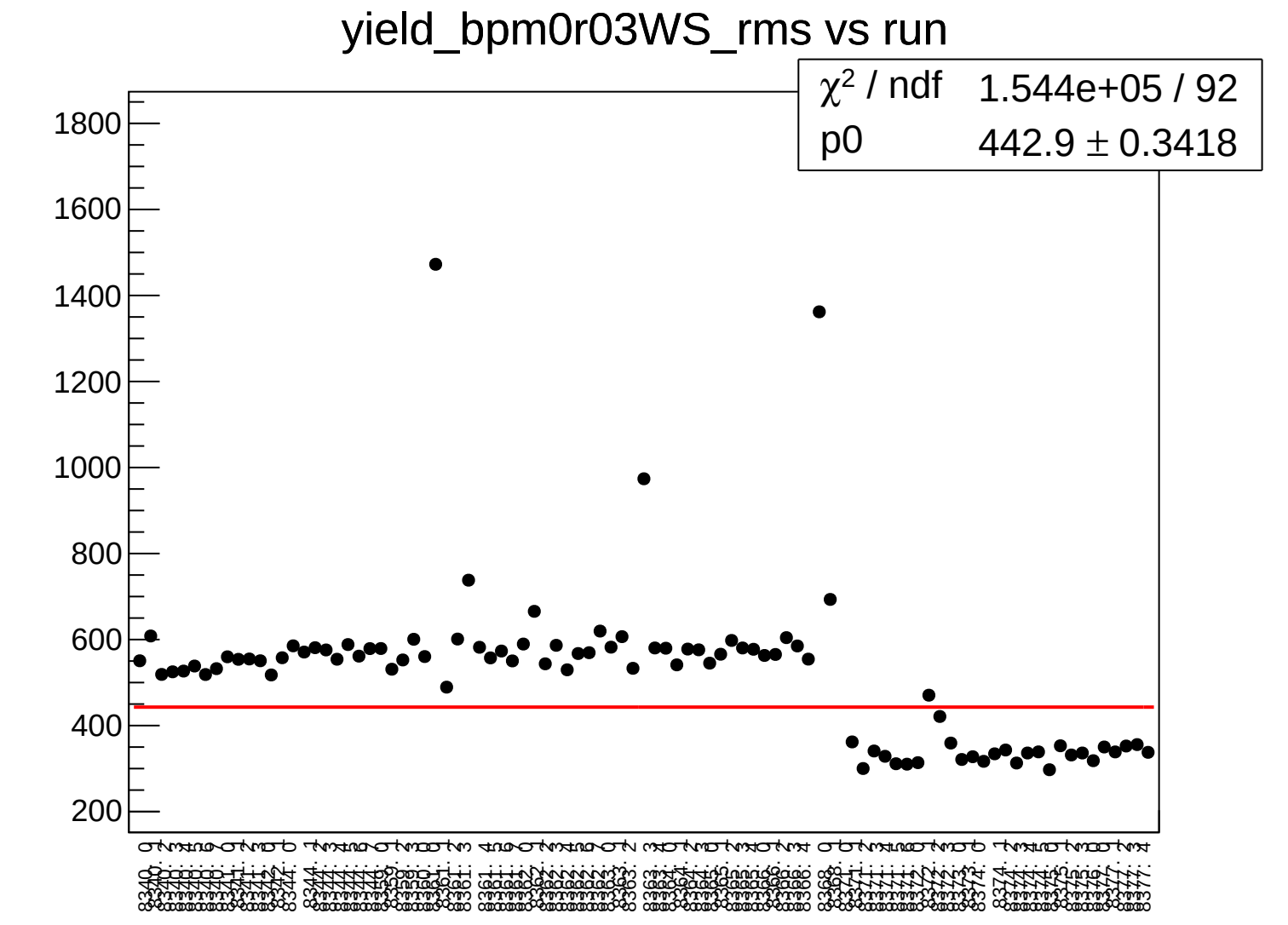

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.537e+05 / 92
p0 1.435e+05 ± 0.4006
144
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
pull
Entries 93
Mean −490.9
Std Dev 0
100
50
0
−50
−100
−150
−200

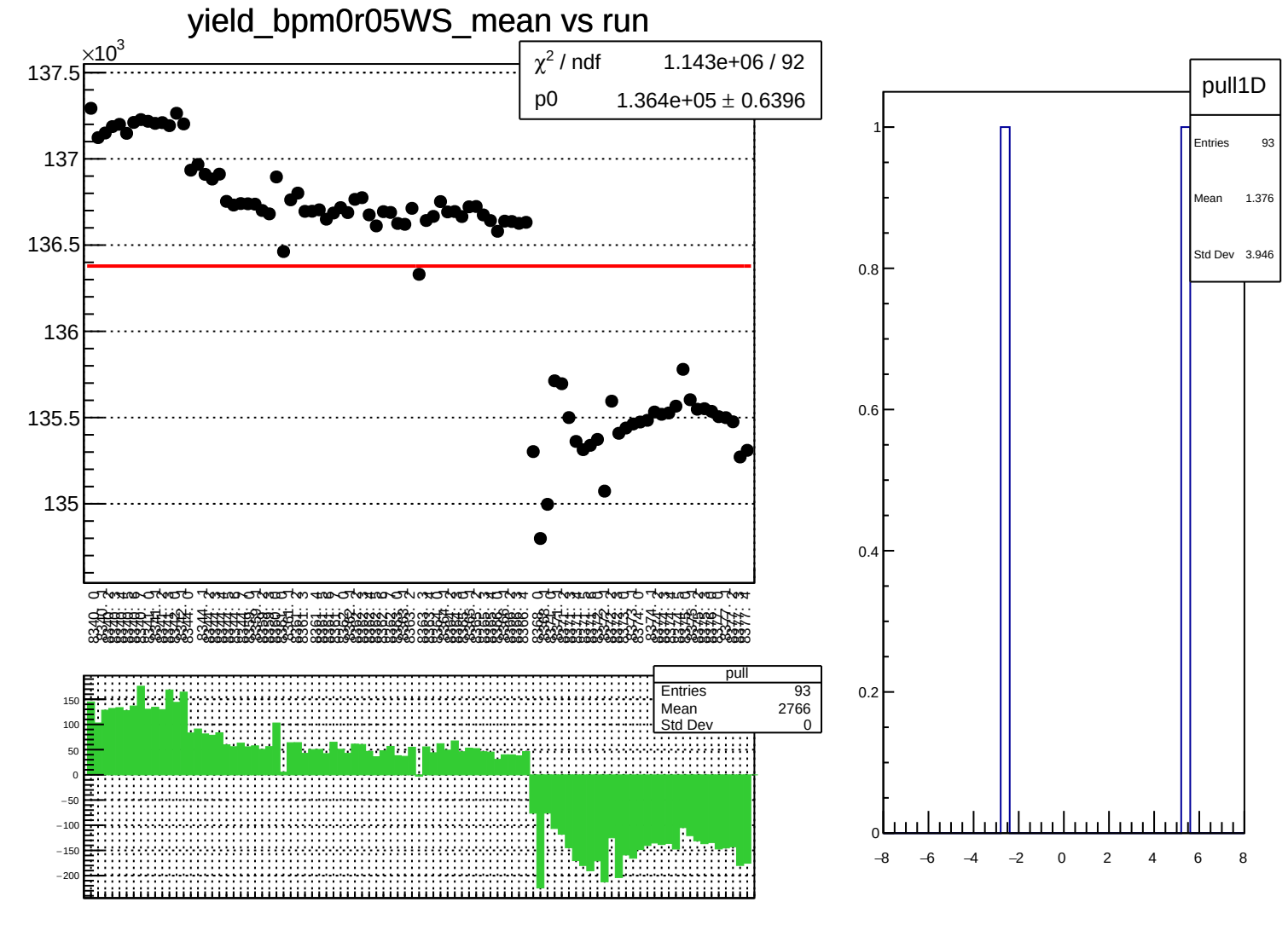

pull1D
Entries 93
Mean 0.8133
Std Dev 4.496
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

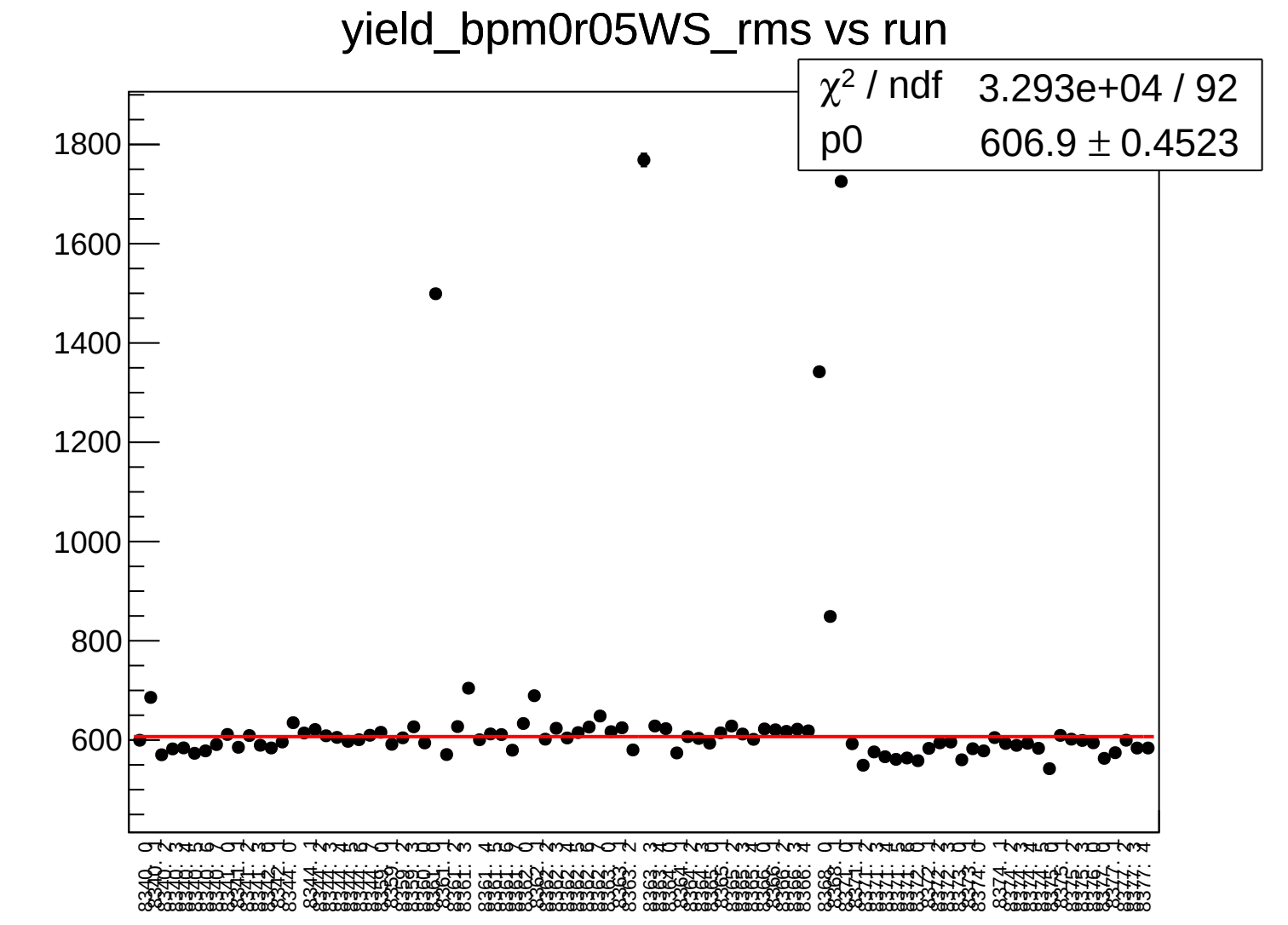

yield_bpm0l10WS_rms vs run
χ² / ndf 5.826e+04 / 92
p0 377.4 ± 0.2832
1800
1600
1400
1200
1000
800
600
400
200

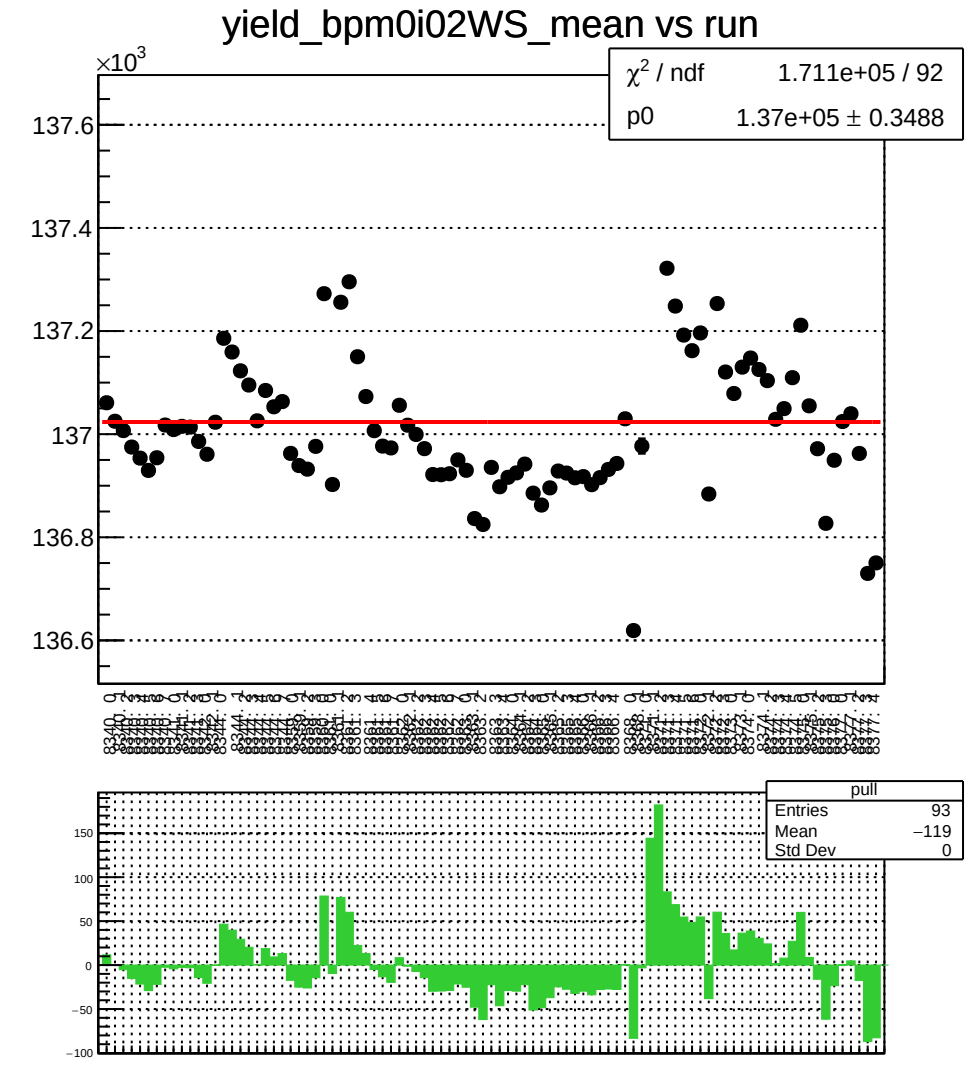

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.563e+05 / 92
p0 1.416e+05 ± 0.4833
142.4
142.2
142
141.8
141.6
141.4
141.2
141
140.8
140.6
pull
Entries 93
Mean −38.34
Std Dev 0
100
50
0
−50
−100
−150

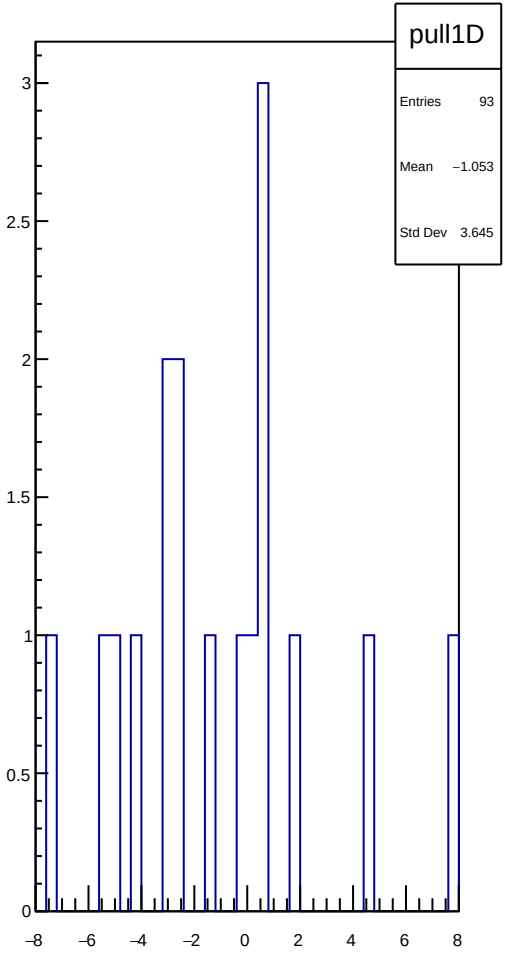

pull1D
Entries 93
Mean −0.2063
Std Dev 4.942
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

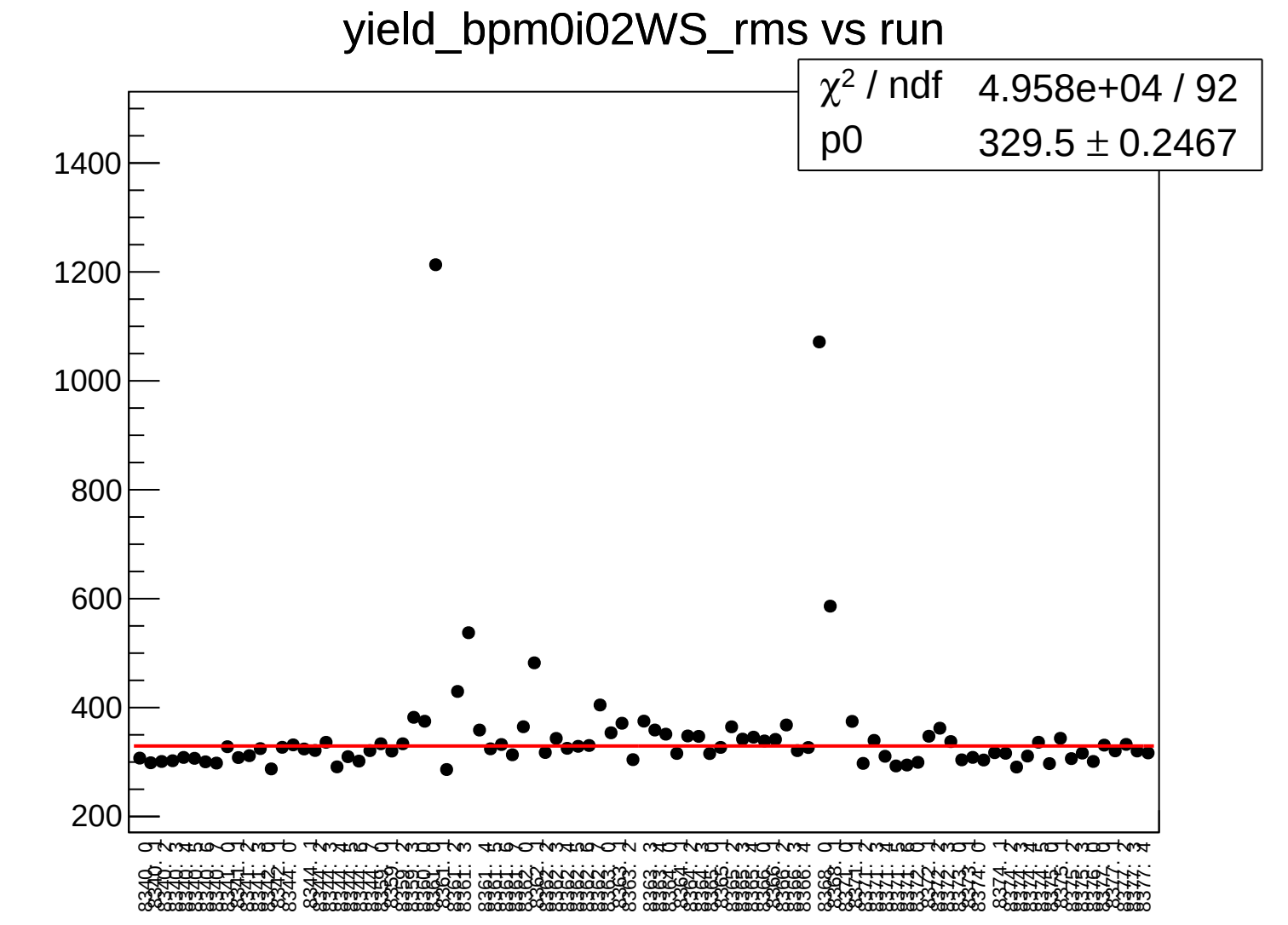

yield_bpm0r03WS_rms vs run
χ² / ndf 1.544e+05 / 92
p0 442.9 ± 0.3418
1800
1600
1400
1200
1000
800
600
400
200

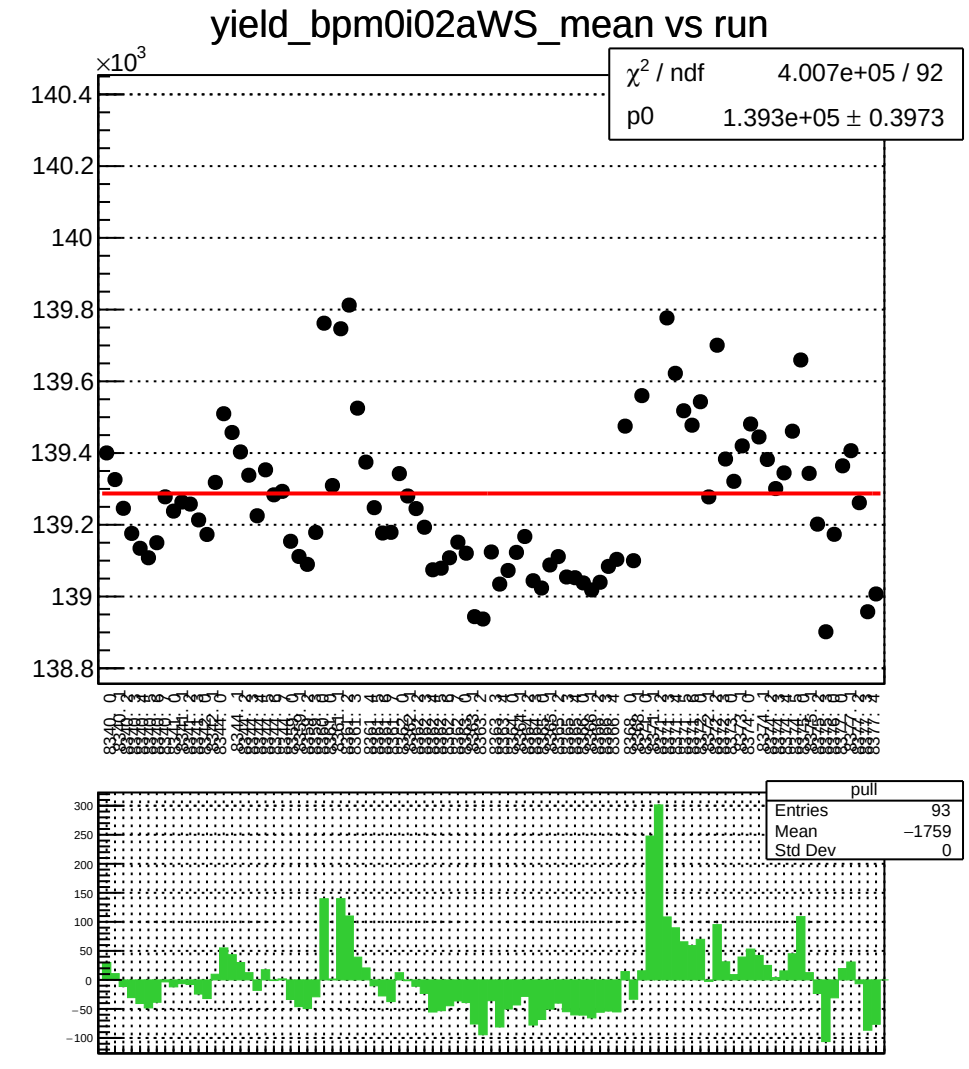

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 1.143e+06 / 92
p0 1.364e+05 ± 0.6396
137.5
137
136.5
136
135.5
135
pull
Entries 93
Mean 2766
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 93
Mean 1.376
Std Dev 3.946
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

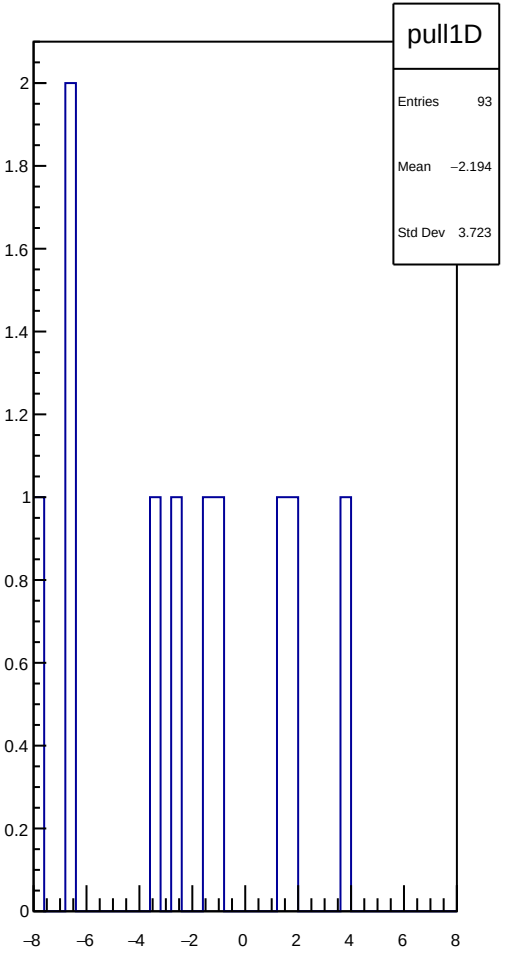

yield_bpm0r05WS_rms vs run
χ² / ndf 3.293e+04 / 92
p0 606.9 ± 0.4523
1800
1600
1400
1200
1000
800
600

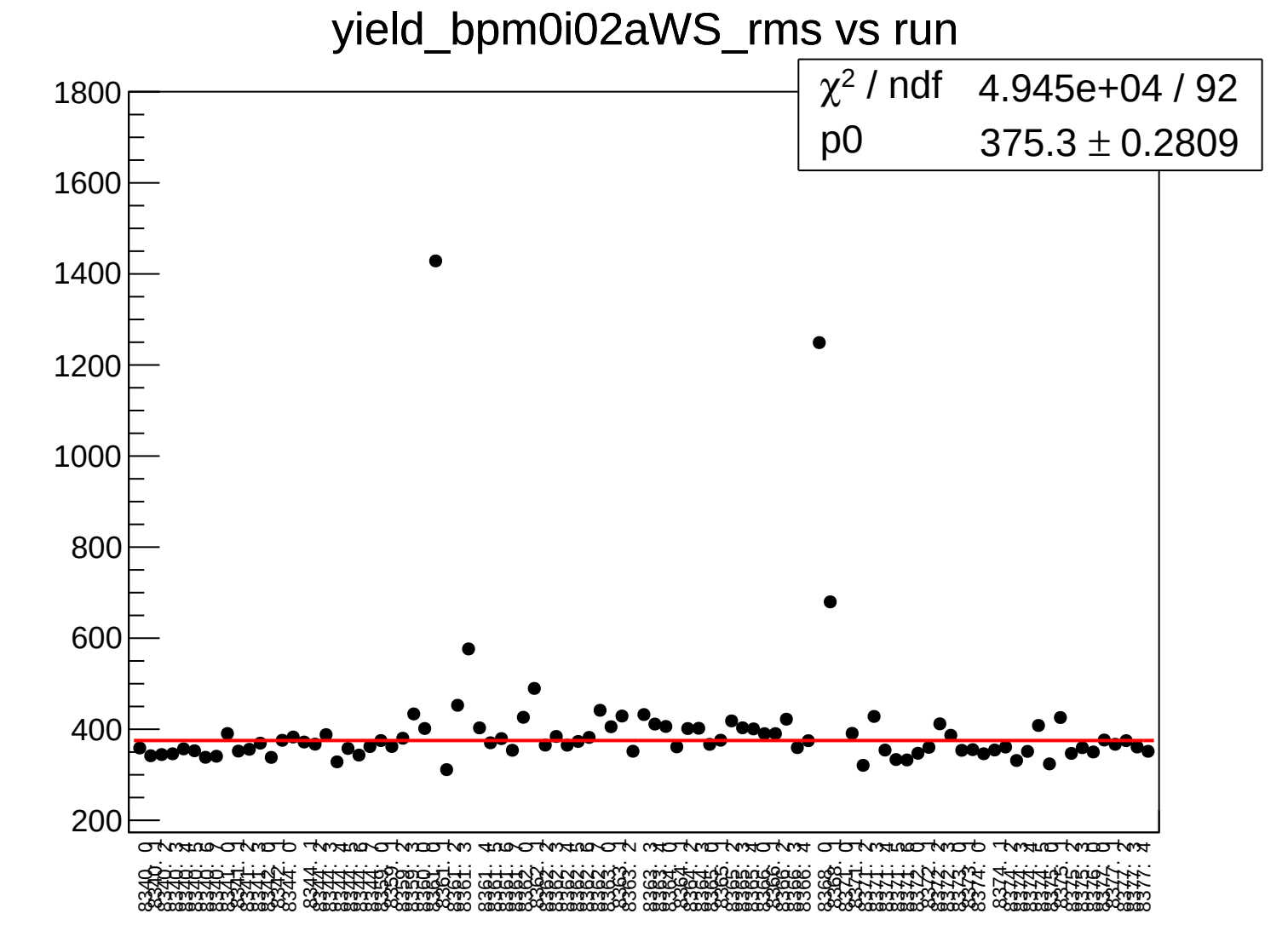

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.711e+05 / 92
p0 1.37e+05 ± 0.3488
137.6
137.4
137.2
137
136.8
136.6
pull
Entries 93
Mean −119
Std Dev 0
150
100
50
0
−50
−100

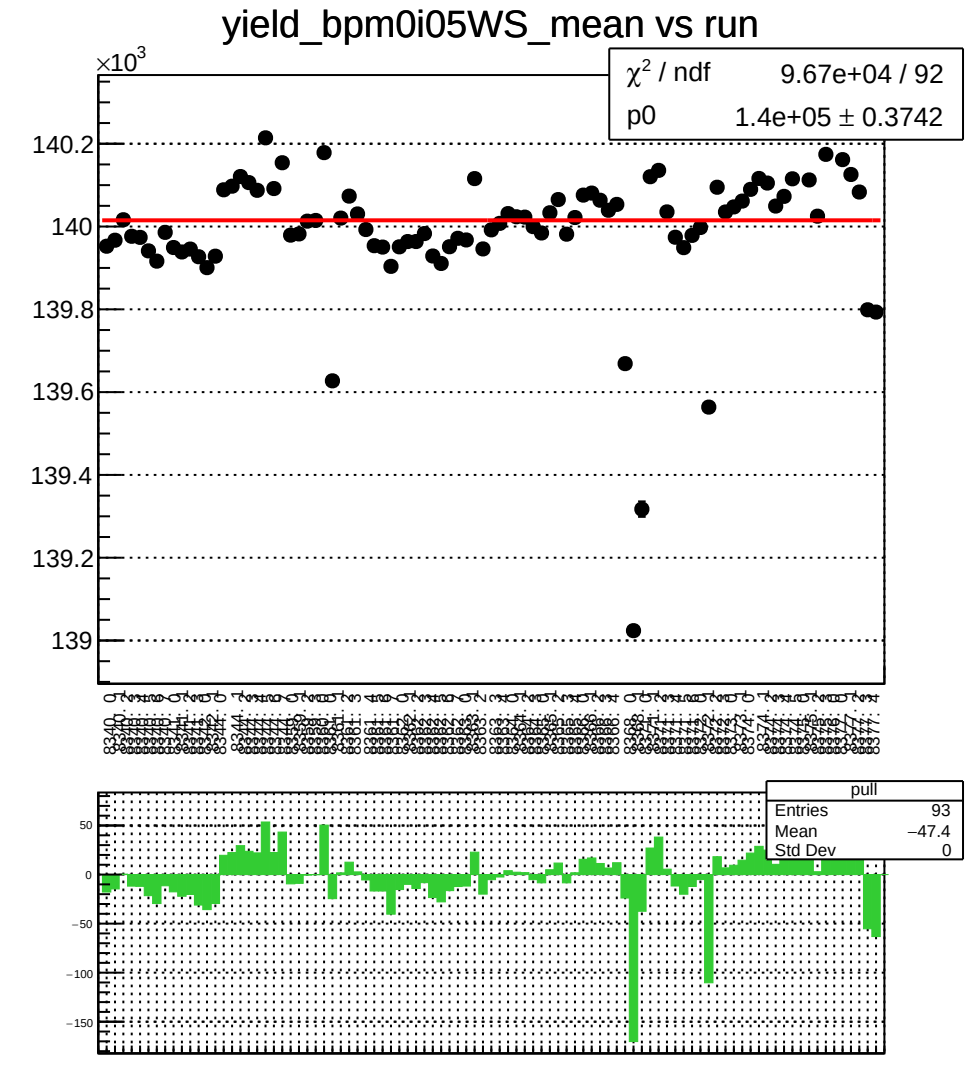

pull1D
Entries 93
Mean −1.053
Std Dev 3.645
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

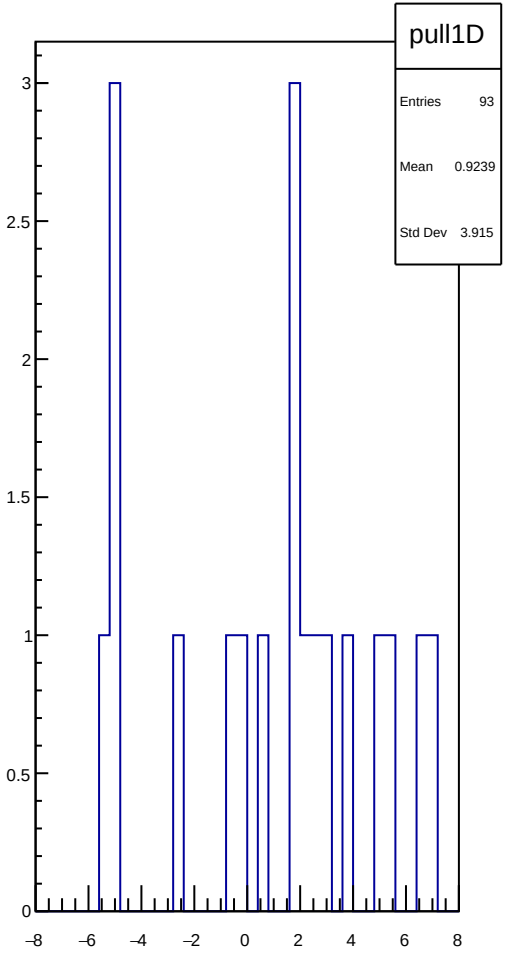

yield_bpm0i02WS_rms vs run
χ² / ndf 4.958e+04 / 92
p0 329.5 ± 0.2467
1400
1200
1000
800
600
400
200

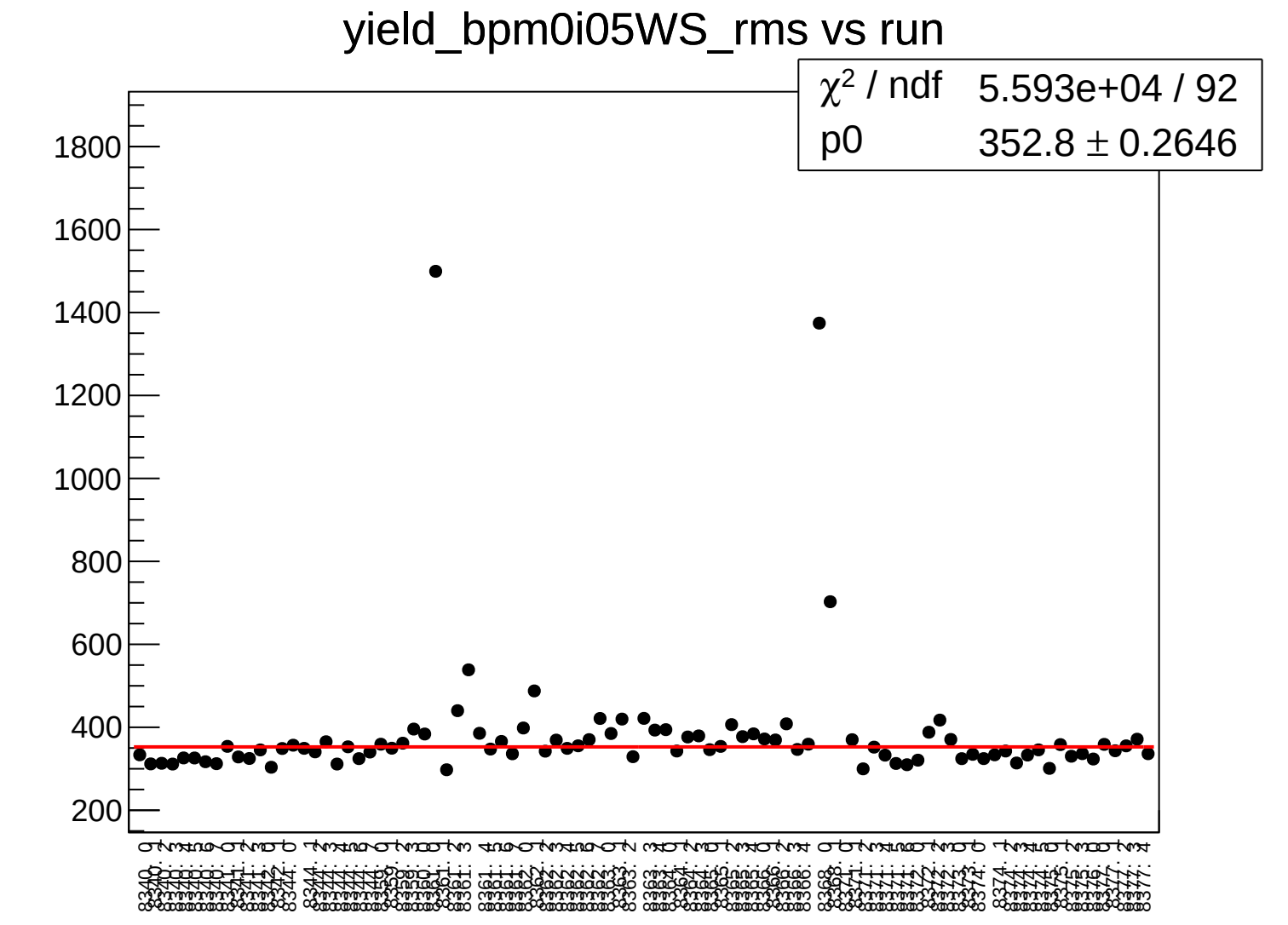

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.007e+05 / 92
p0 1.393e+05 ± 0.3973
140.4
140.2
140
139.8
139.6
139.4
139.2
139
138.8
pull
Entries 93
Mean −1759
Std Dev 0
300
250
200
150
100
50
0
−50
−100

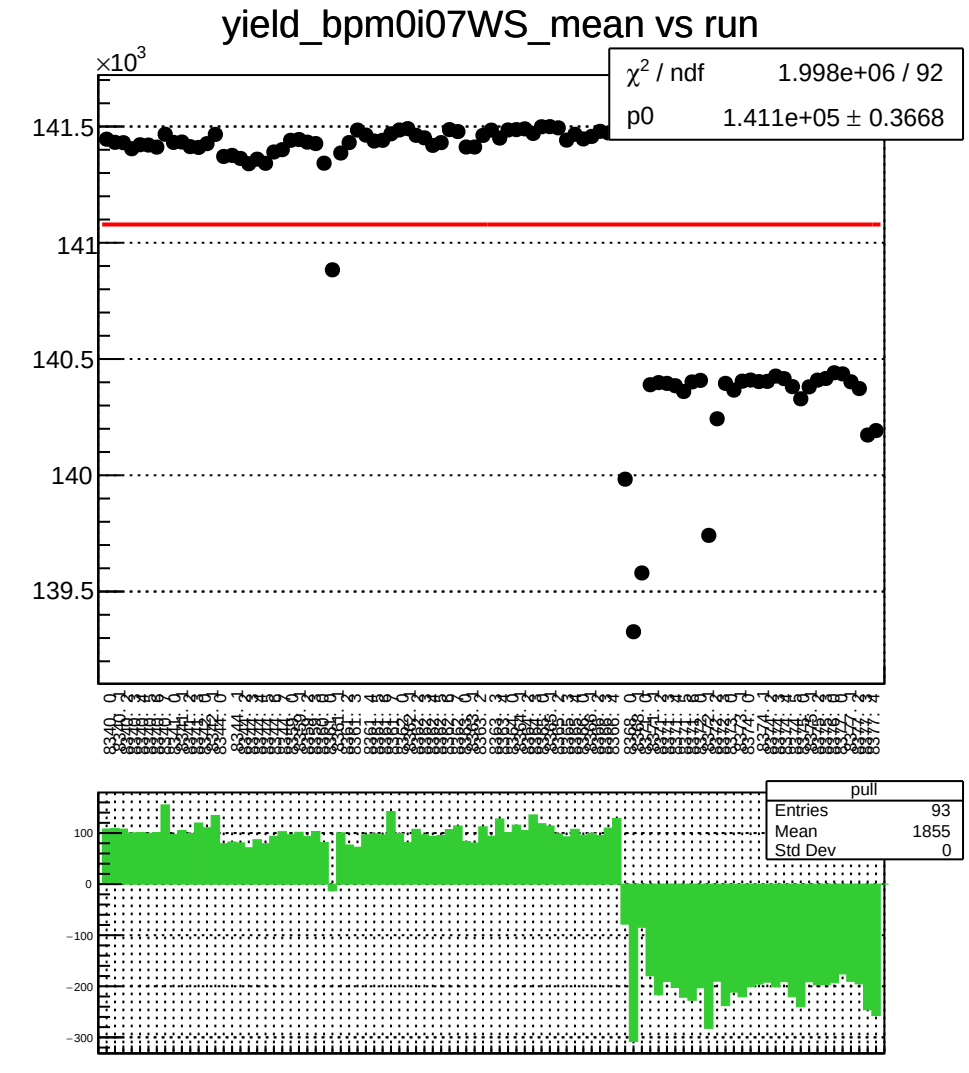

pull1D
Entries 93
Mean −2.194
Std Dev 3.723
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

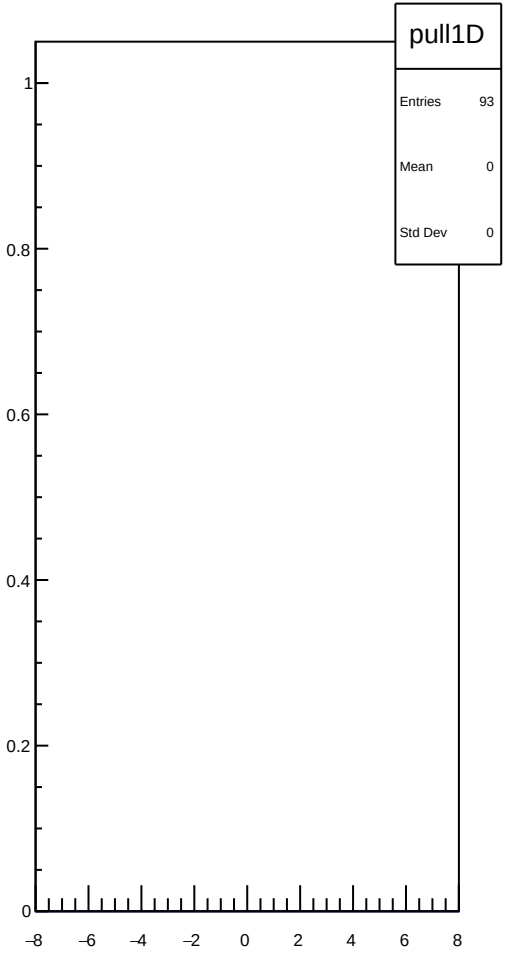

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.945e+04 / 92
p0 375.3 ± 0.2809
1800
1600
1400
1200
1000
800
600
400
200

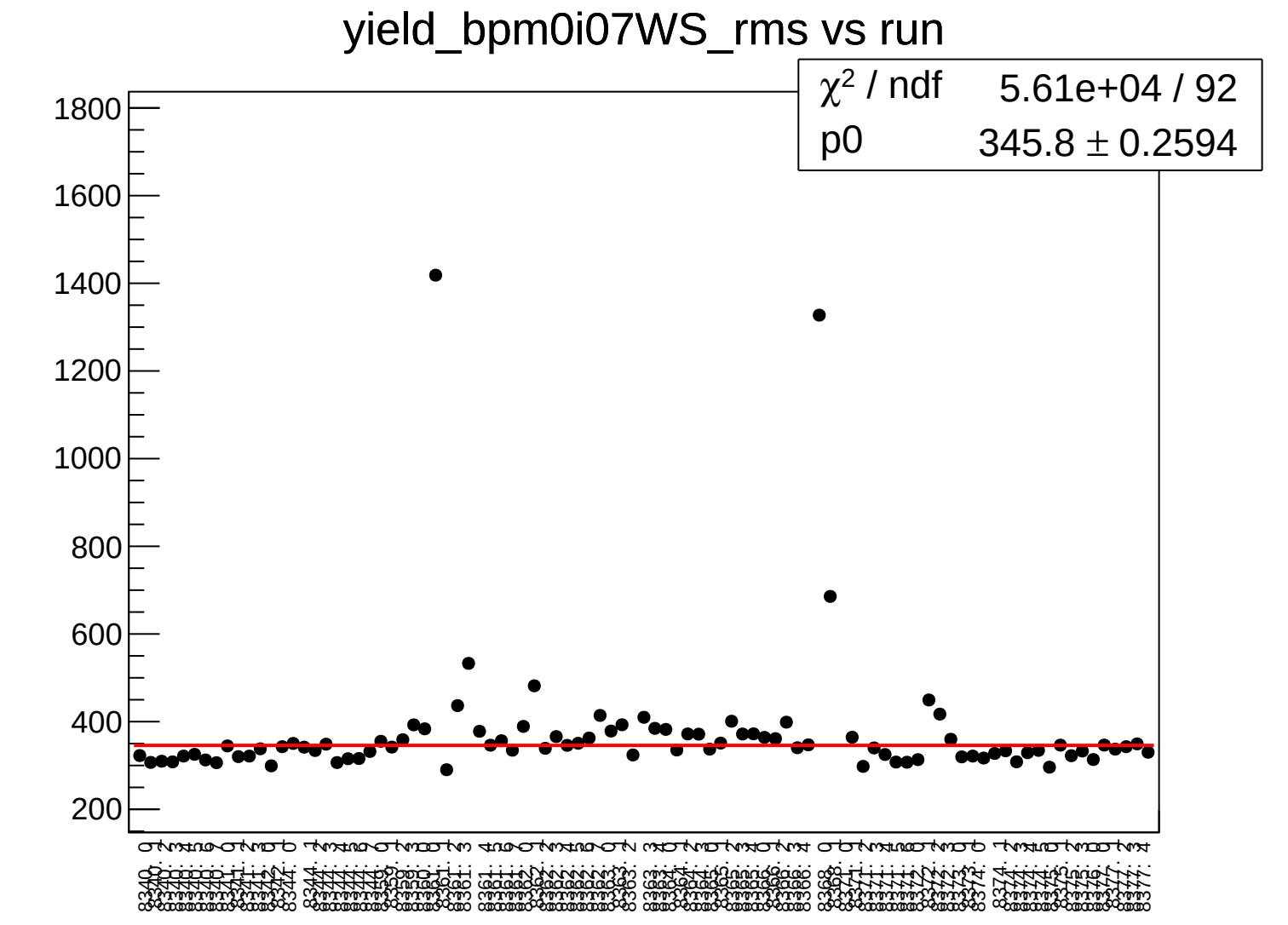

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 9.67e+04 / 92
p0 1.4e+05 ± 0.3742
140.2
140
139.8
139.6
139.4
139.2
139
pull
Entries 93
Mean −47.4
Std Dev 0
50
0
−50
−100
−150

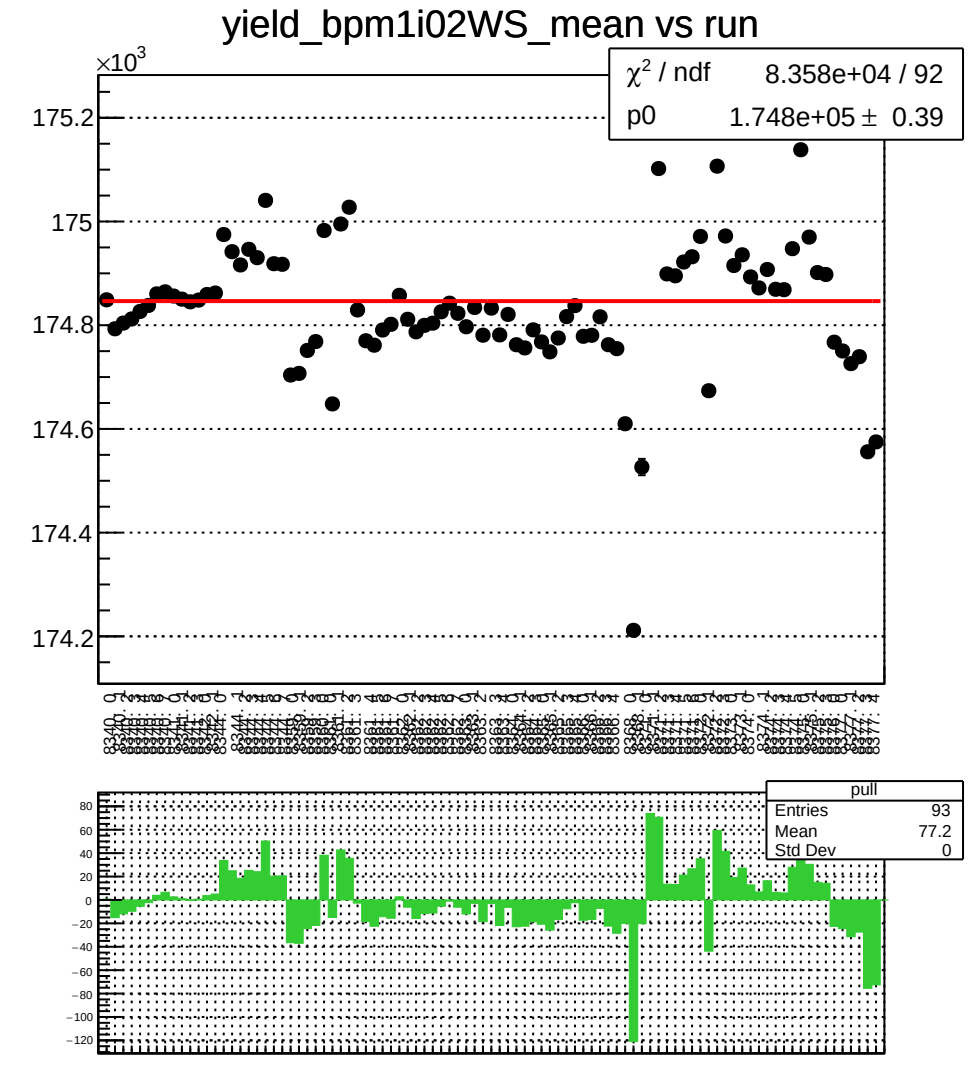

pull1D
Entries 93
Mean 0.9239
Std Dev 3.915
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

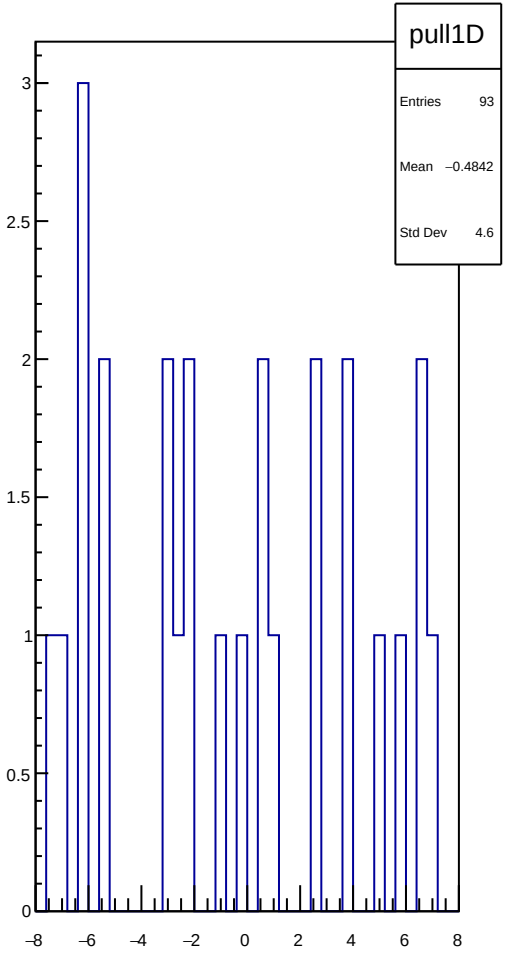

yield_bpm0i05WS_rms vs run
χ² / ndf 5.593e+04 / 92
p0 352.8 ± 0.2646
1800
1600
1400
1200
1000
800
600
400
200

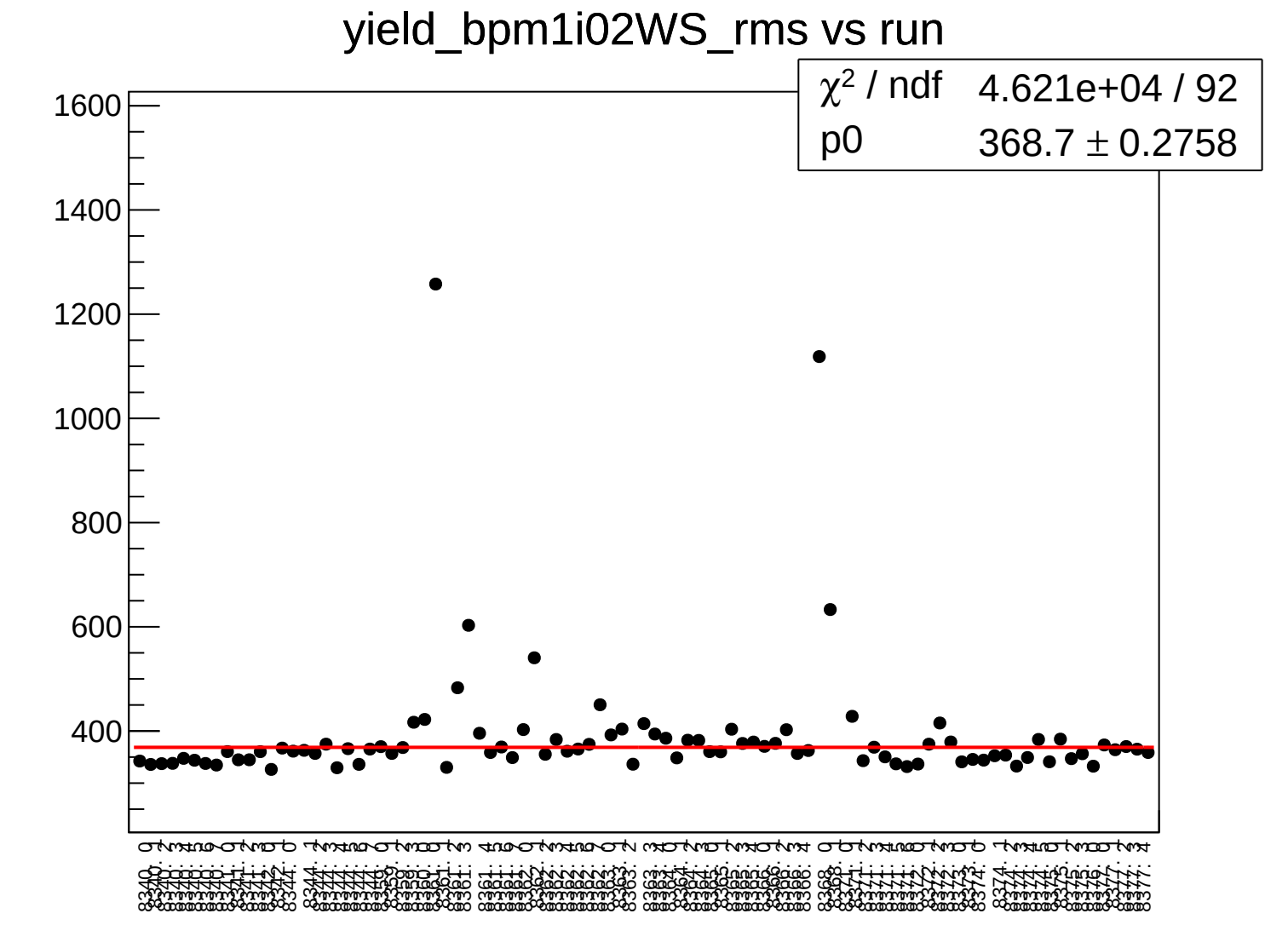

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.998e+06 / 92
p0 1.411e+05 ± 0.3668
141.5
141
140.5
140
139.5
pull
Entries 93
Mean 1855
Std Dev 0
100
0
−100
−200
−300

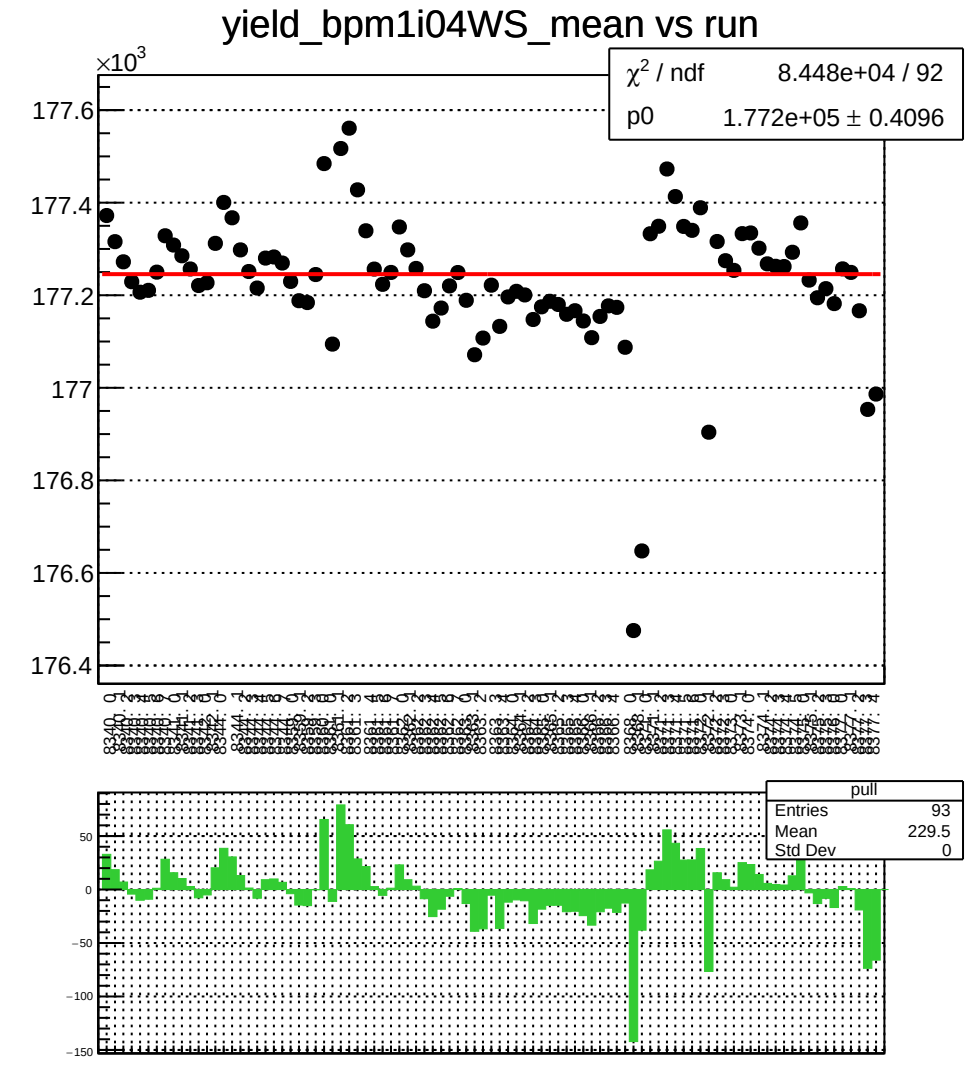

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

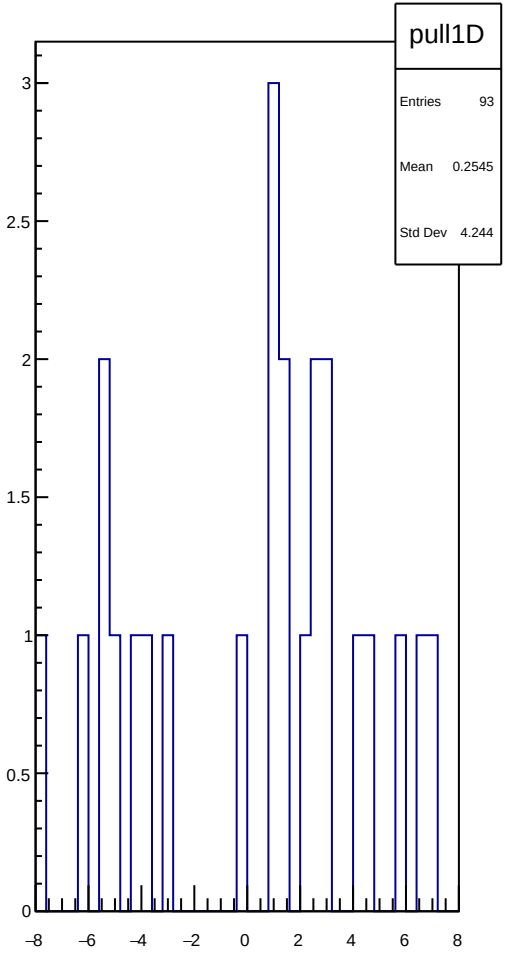

yield_bpm0i07WS_rms vs run
χ² / ndf 5.61e+04 / 92
p0 345.8 ± 0.2594
1800
1600
1400
1200
1000
800
600
400
200

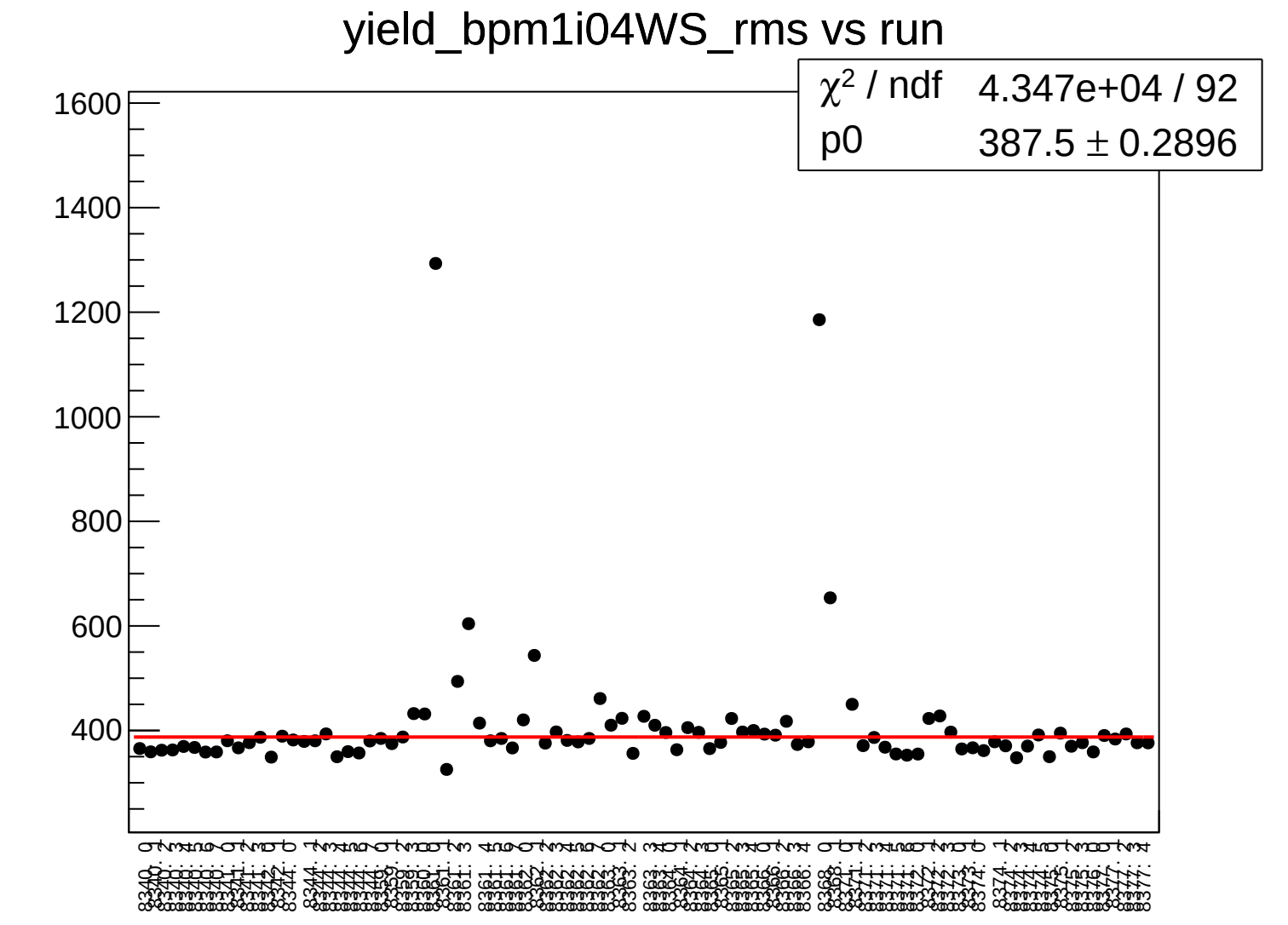

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 8.358e+04 / 92
p0 1.748e+05 ± 0.39
175.2
175
174.8
174.6
174.4
174.2
pull
Entries 93
Mean 77.2
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

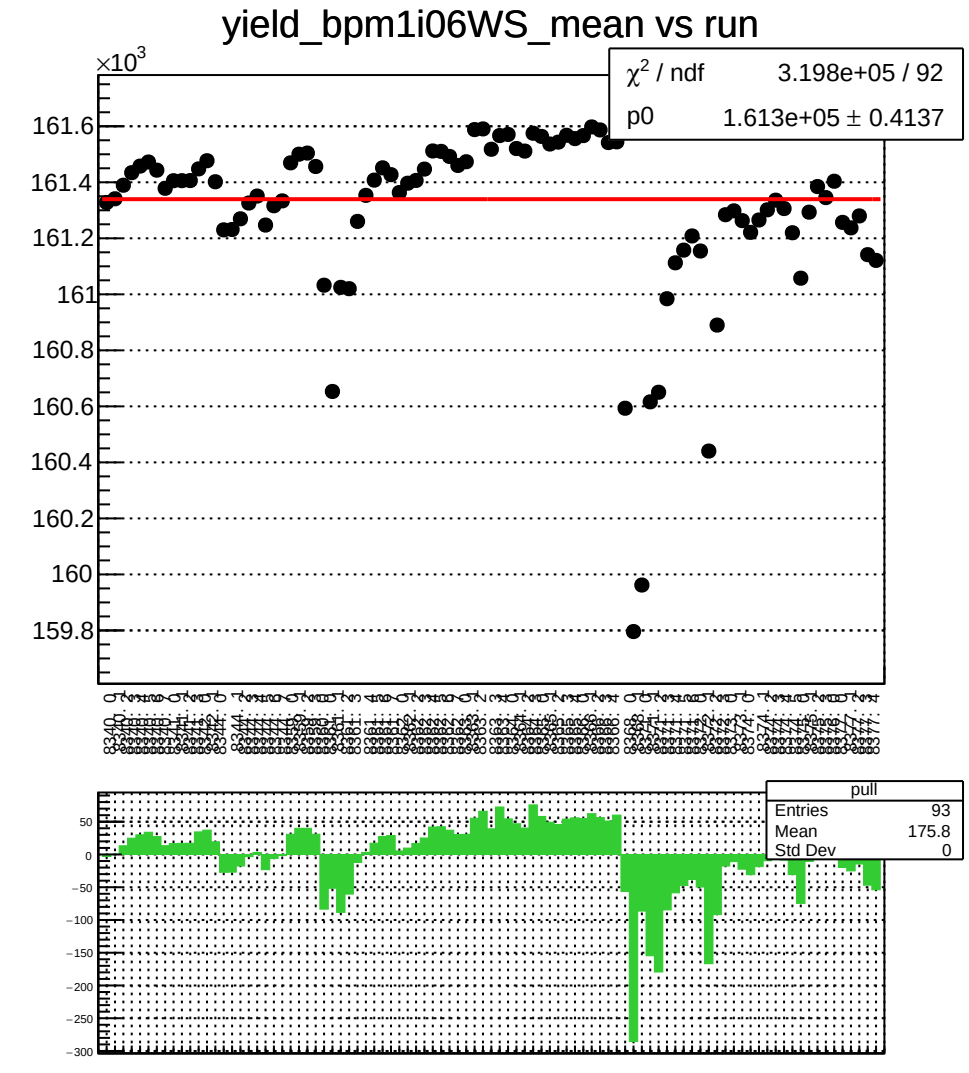

pull1D
Entries 93
Mean −0.4842
Std Dev 4.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

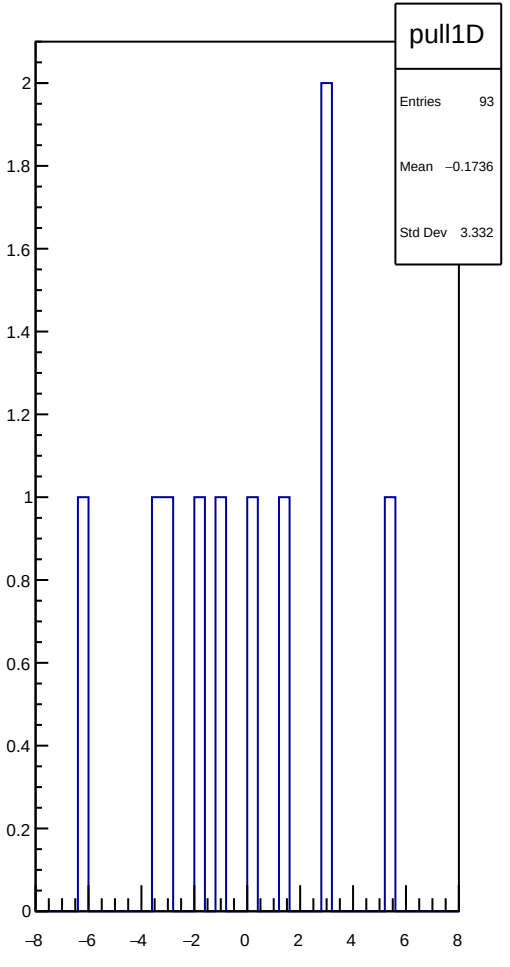

yield_bpm1i02WS_rms vs run
χ² / ndf 4.621e+04 / 92
p0 368.7 ± 0.2758
1600
1400
1200
1000
800
600
400

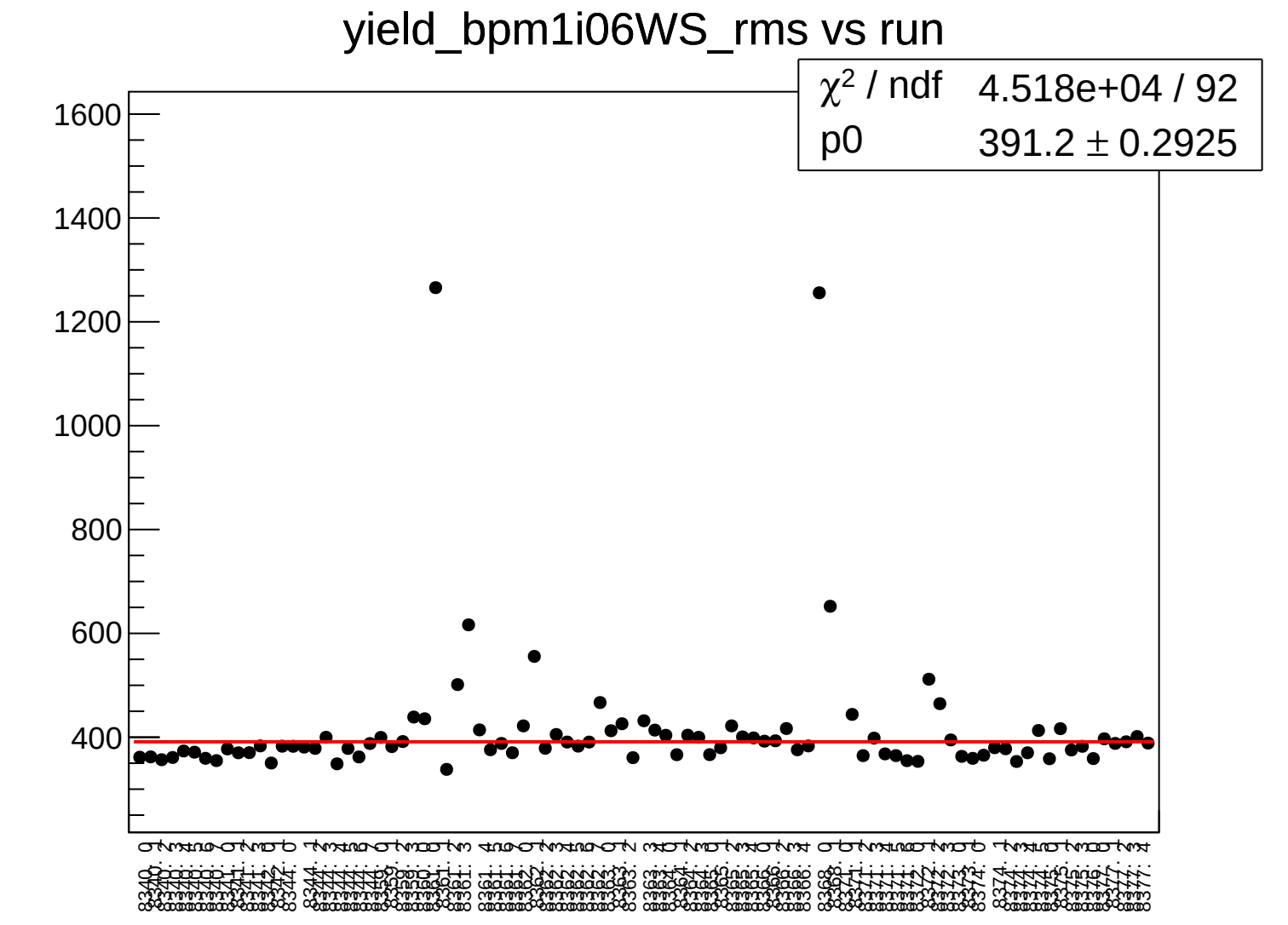

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 8.448e+04 / 92
p0 1.772e+05 ± 0.4096
177.6
177.4
177.2
177
176.8
176.6
176.4
pull
Entries 93
Mean 229.5
Std Dev 0
50
0
−50
−100
−150

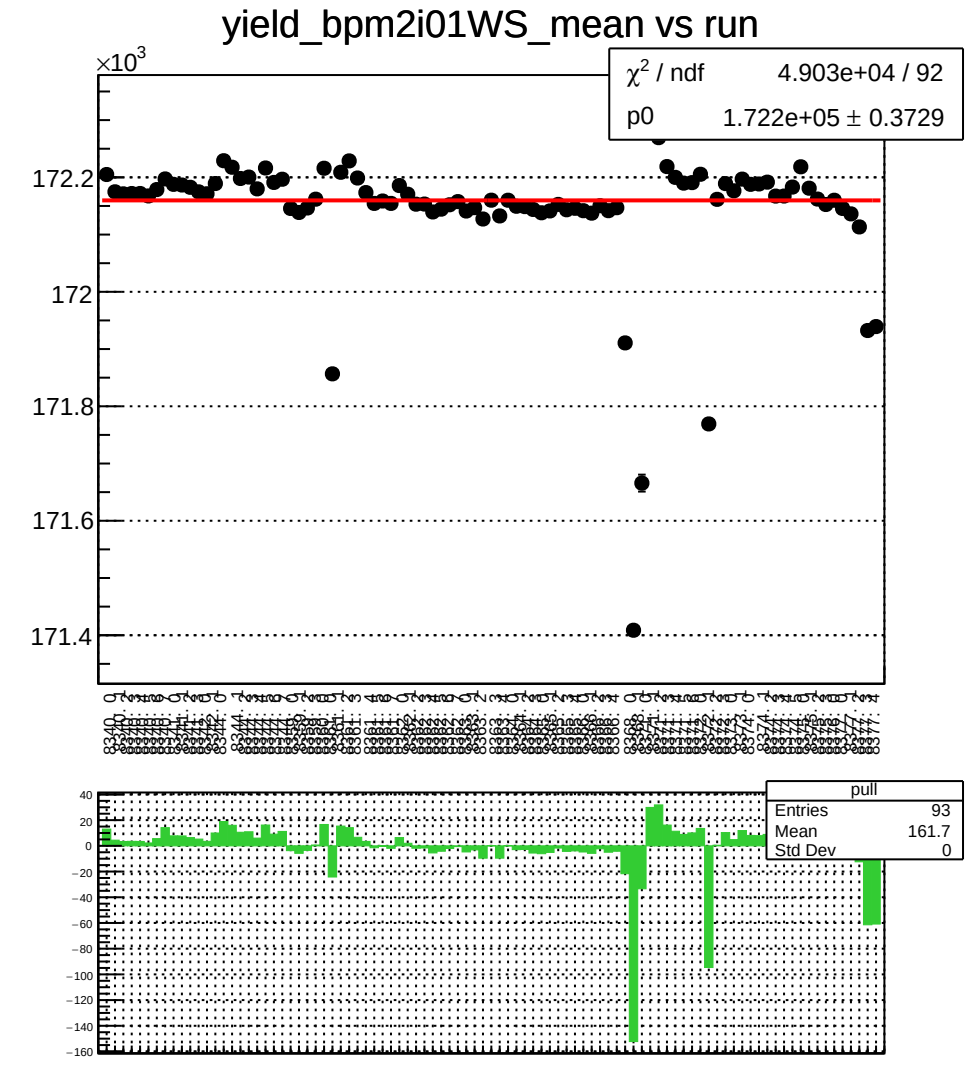

pull1D
Entries 93
Mean 0.2545
Std Dev 4.244
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

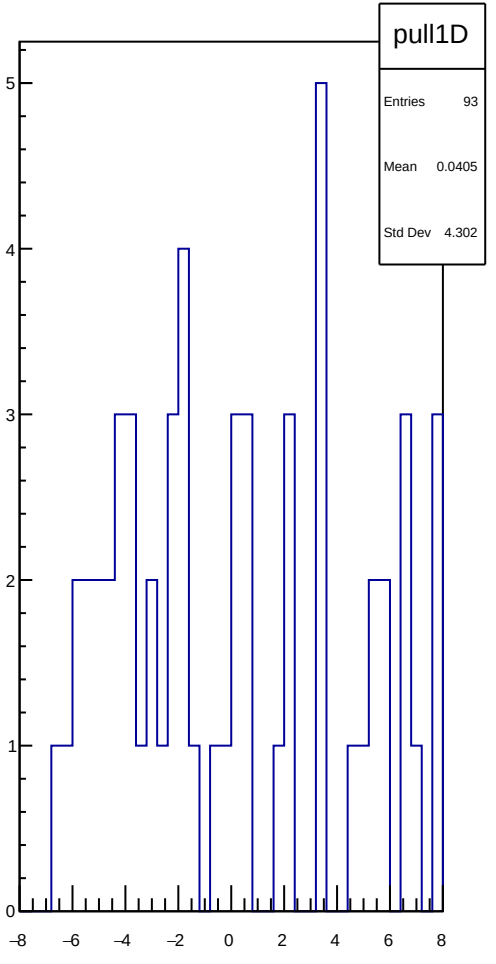

yield_bpm1i04WS_rms vs run
χ² / ndf 4.347e+04 / 92
p0 387.5 ± 0.2896
1600
1400
1200
1000
800
600
400

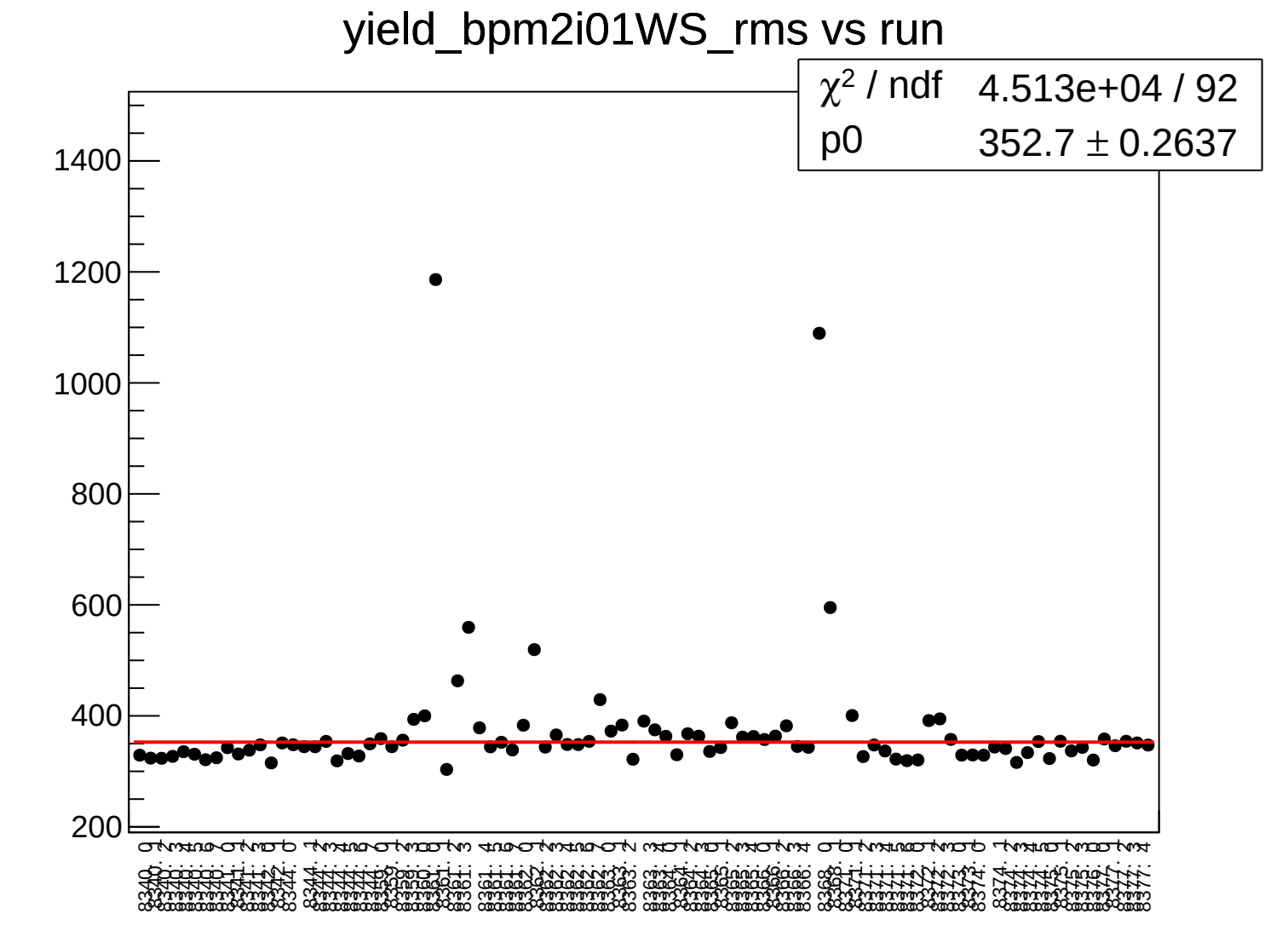

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 3.198e+05 / 92
p0 1.613e+05 ± 0.4137
161.6
161.4
161.2
161
160.8
160.6
160.4
160.2
160
159.8
pull
Entries 93
Mean 175.8
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300

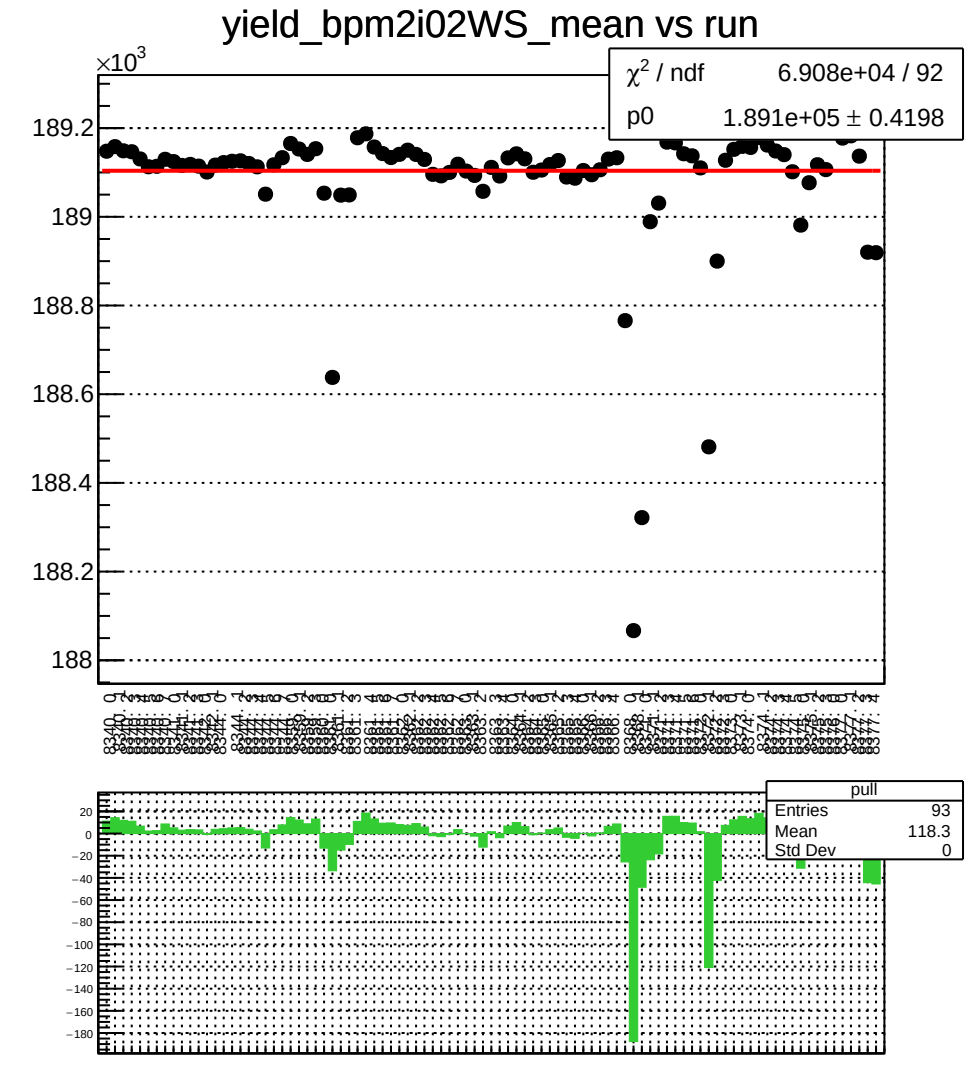

pull1D
Entries 93
Mean −0.1736
Std Dev 3.332
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

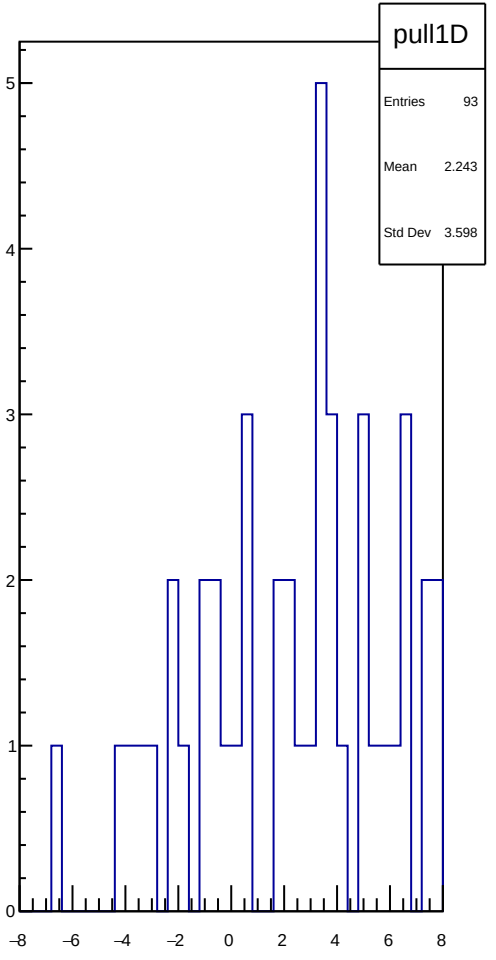

yield_bpm1i06WS_rms vs run
χ² / ndf 4.518e+04 / 92
p0 391.2 ± 0.2925
1600
1400
1200
1000
800
600
400

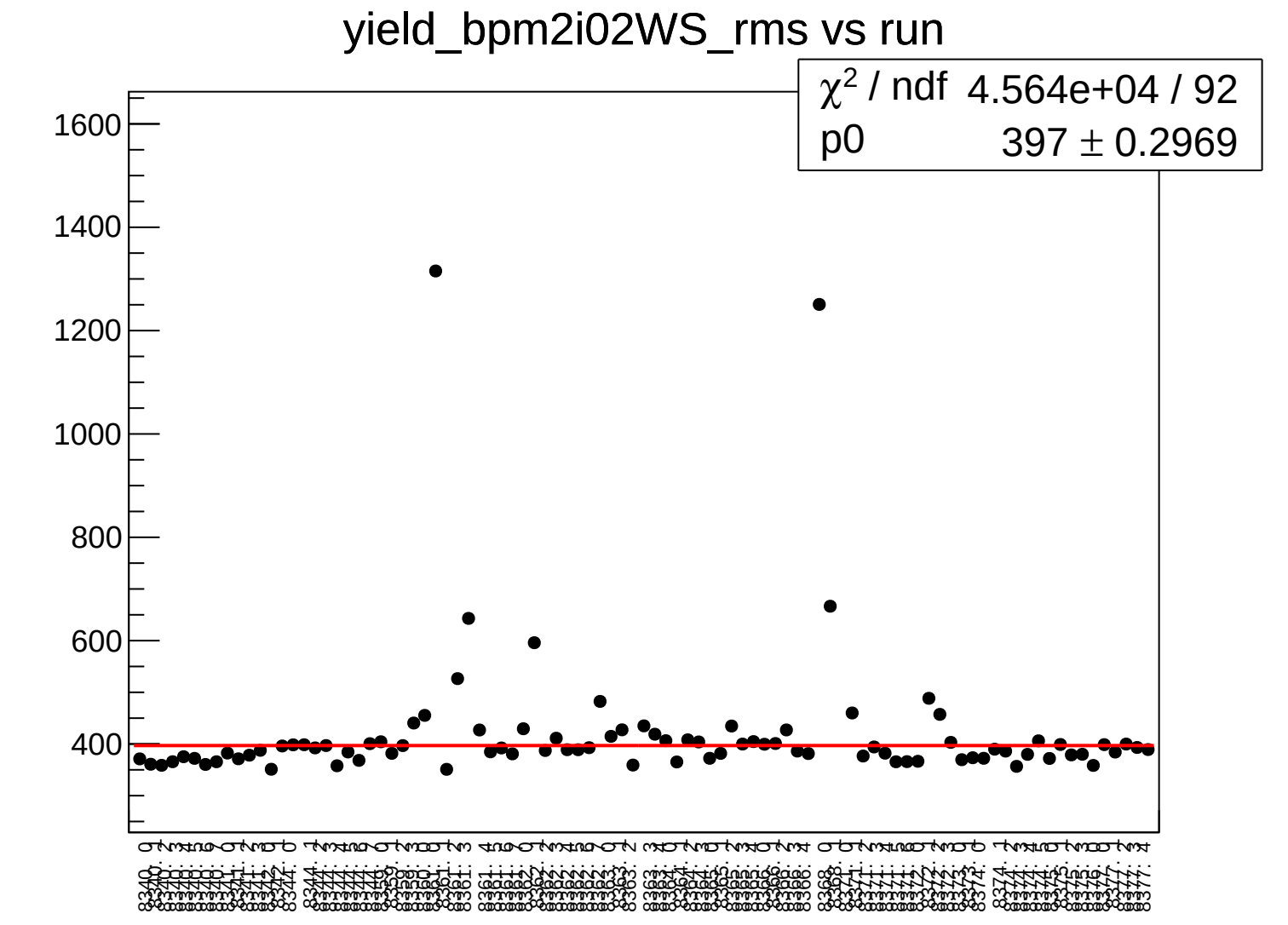

yield_bpm2i01WS_mean vs run
×10^3
χ^2 / ndf 4.903e+04 / 92
p0 1.722e+05 ± 0.3729
172.2
172
171.8
171.6
171.4
pull
Entries 93
Mean 161.7
Std Dev 0
40
20
0
−20
−40
−60
−80
−100
−120
−140
−160

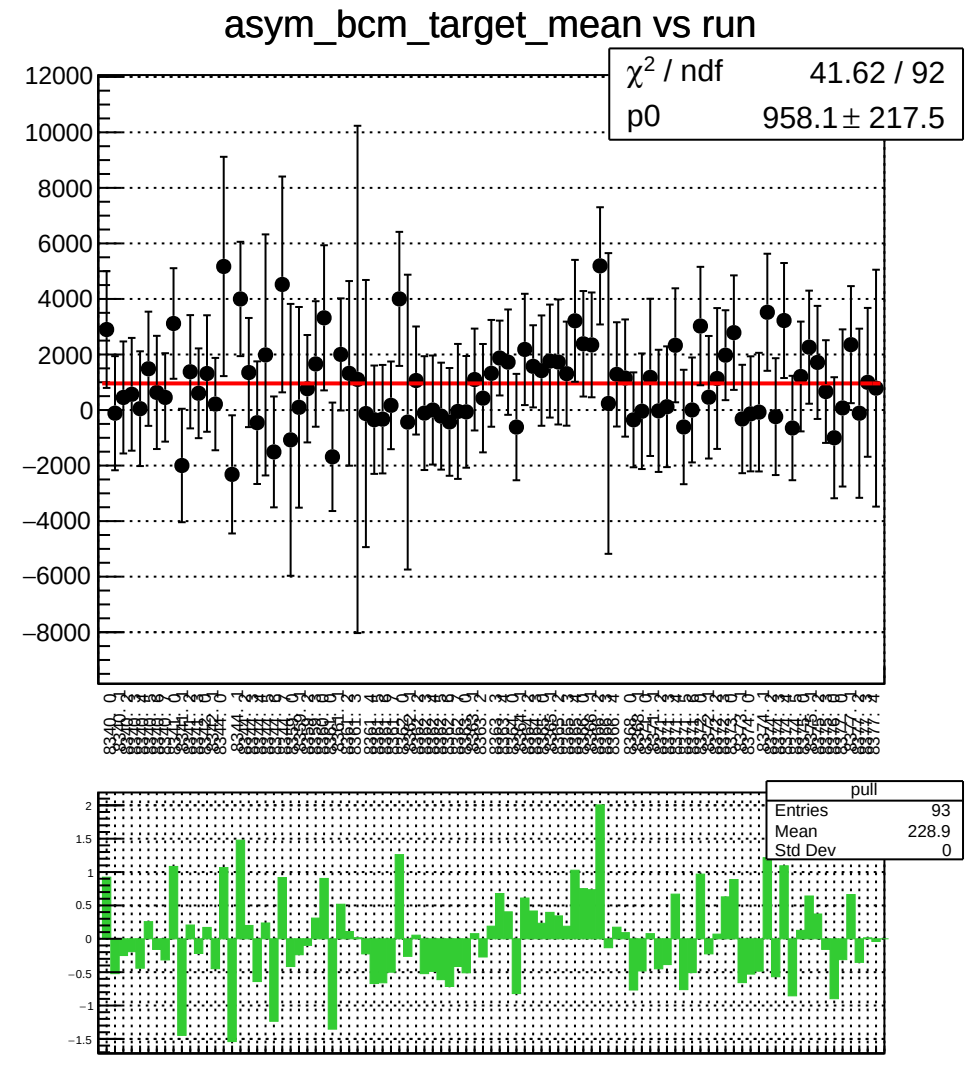

pull1D
Entries 93
Mean 0.0405
Std Dev 4.302
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

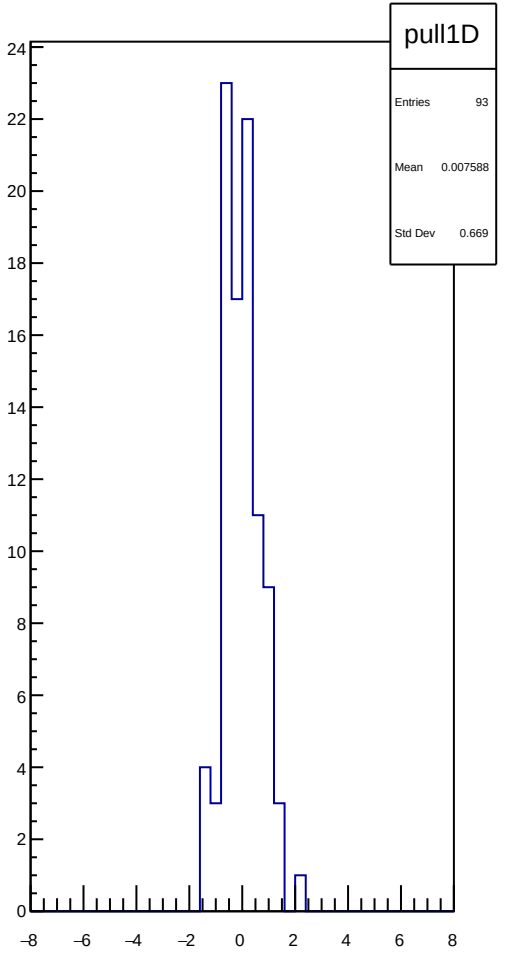

yield_bpm2i01WS_rms vs run
χ² / ndf 4.513e+04 / 92
p0 352.7 ± 0.2637
1400
1200
1000
800
600
400
200

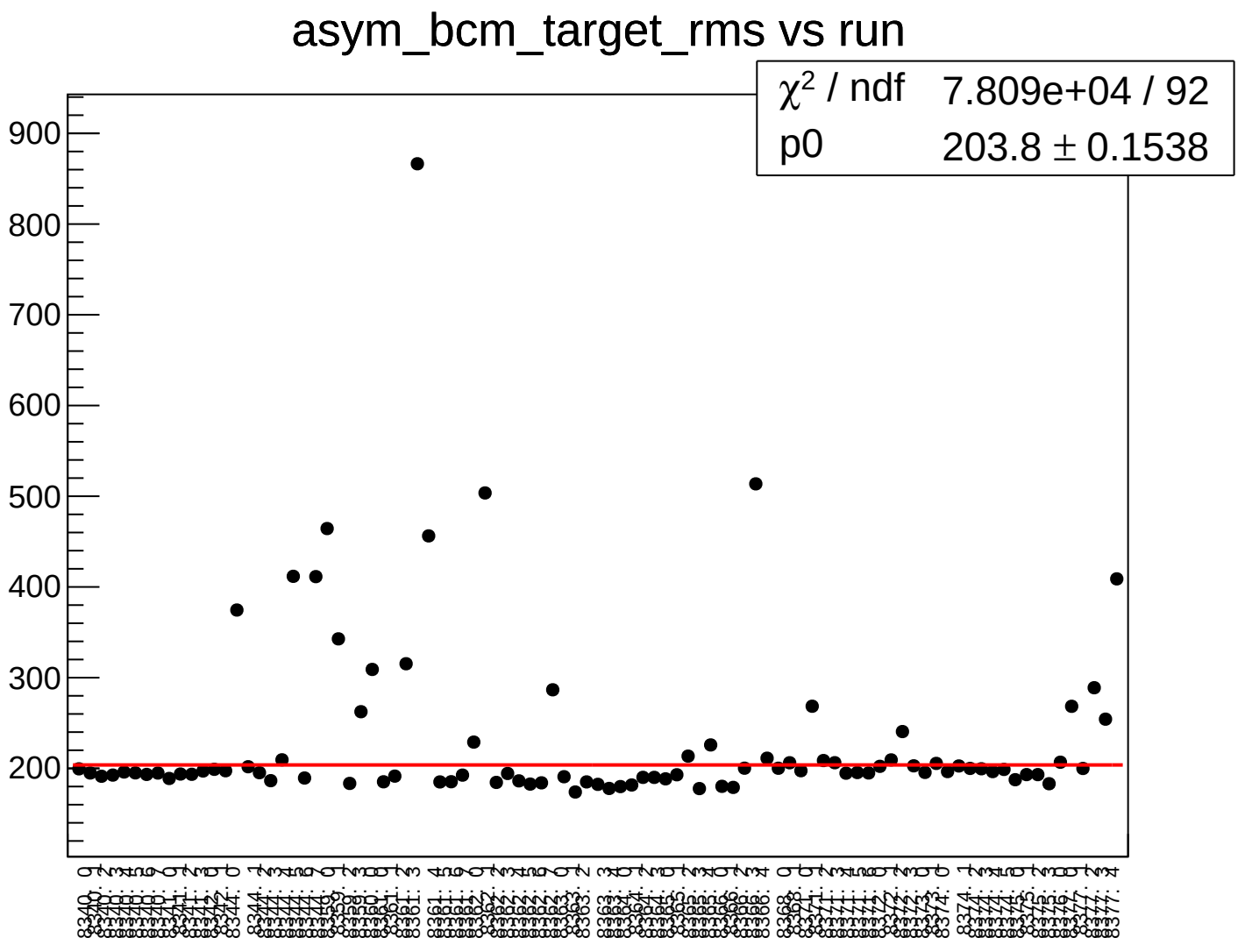

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 6.908e+04 / 92
p0 1.891e+05 ± 0.4198
189.2
189
188.8
188.6
188.4
188.2
188
pull
Entries 93
Mean 118.3
Std Dev 0
20
0
−20
−40
−60
−80
−100
−120
−140
−160
−180

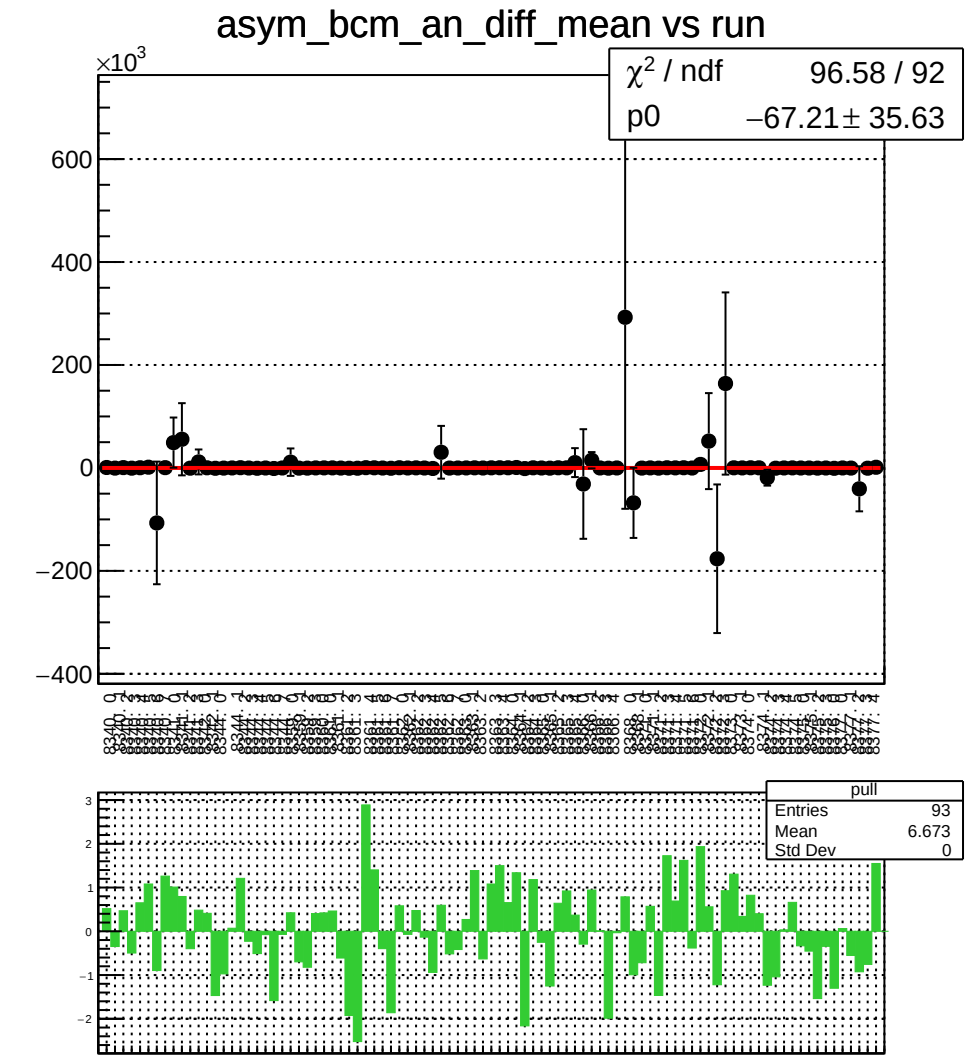

pull1D
Entries 93
Mean 2.243
Std Dev 3.598
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

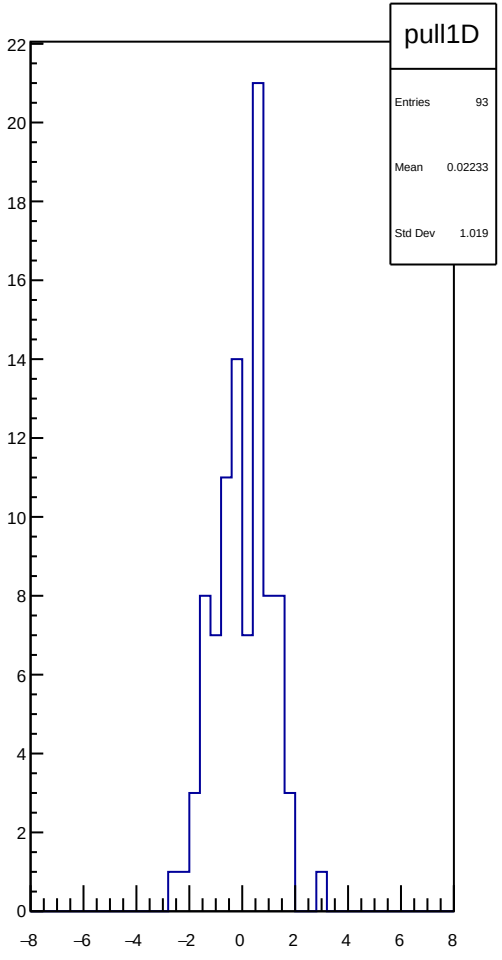

yield_bpm2i02WS_rms vs run
χ² / ndf 4.564e+04 / 92
p0 397 ± 0.2969
1600
1400
1200
1000
800
600
400

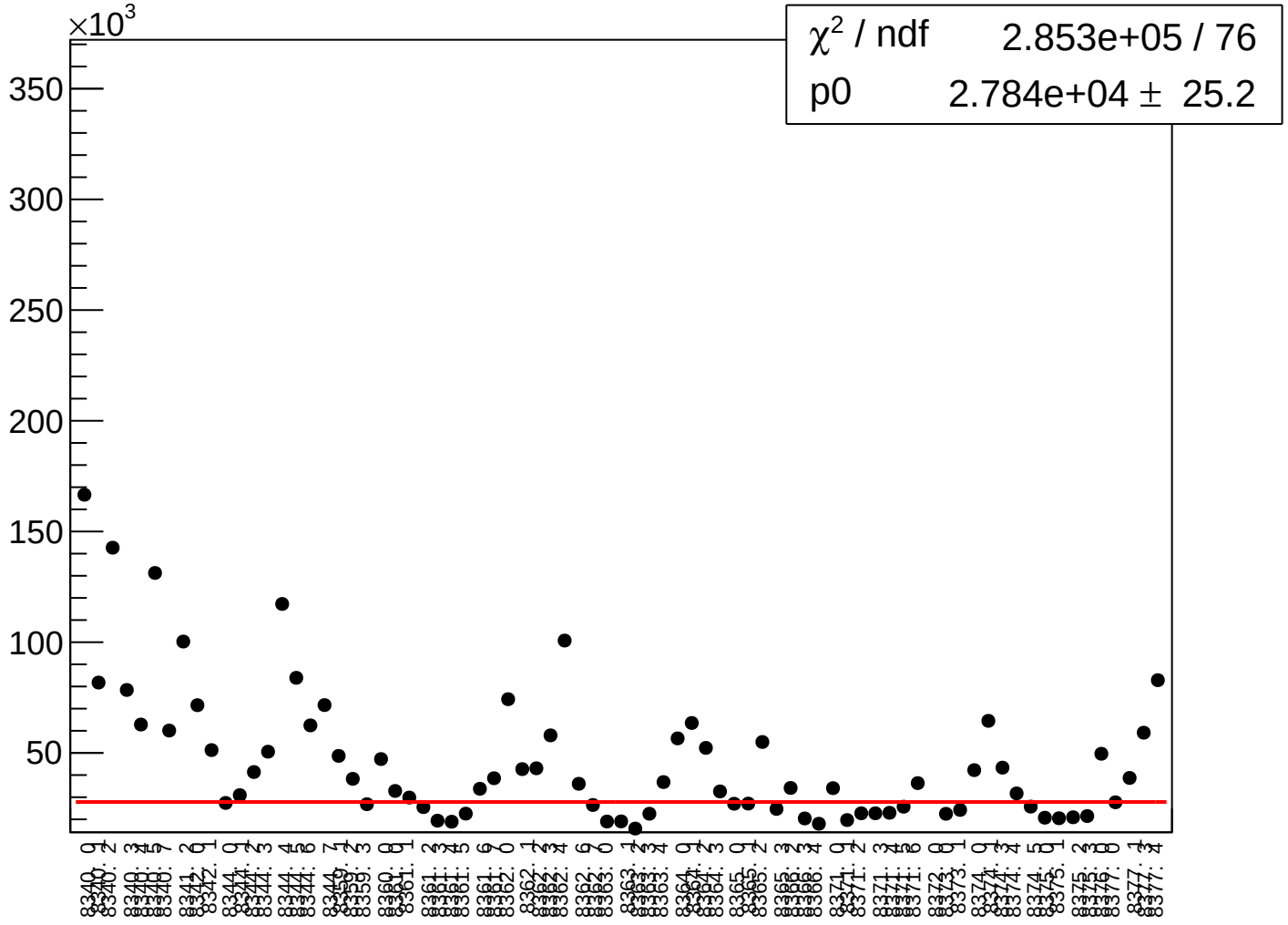

asym_bcm_target_mean vs run
χ² / ndf 41.62 / 92
p0 958.1 ± 217.5
pull
Entries 93
Mean 228.9
Std Dev 0

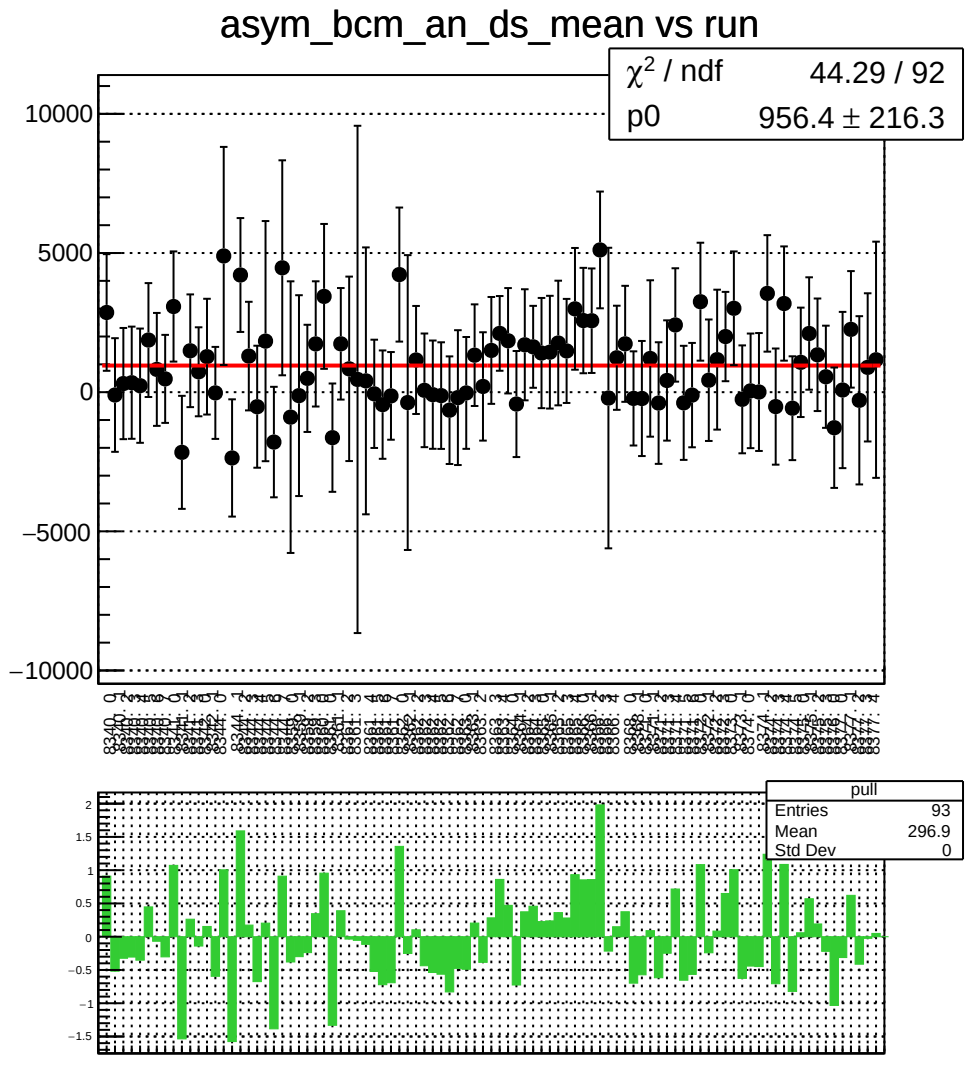

pull1D
Entries 93
Mean 0.007588
Std Dev 0.669

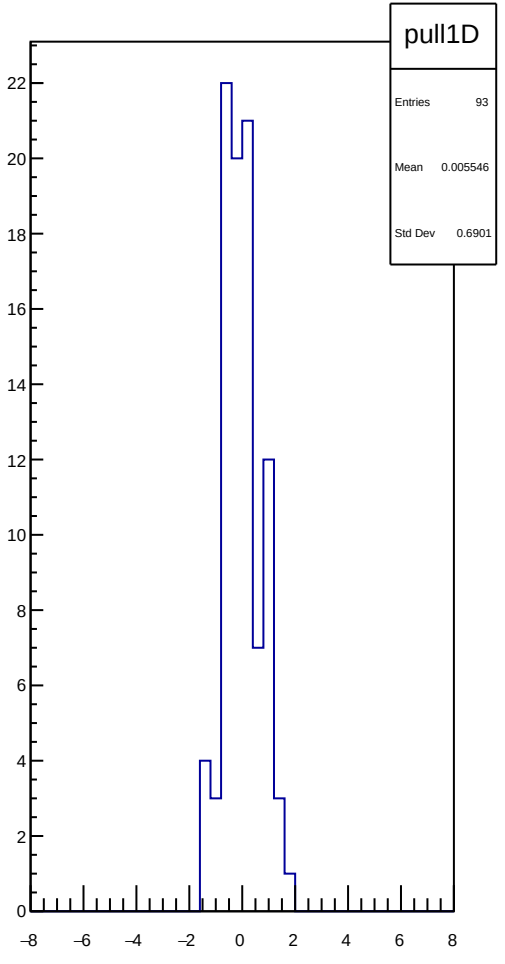

asym_bcm_target_rms vs run
χ² / ndf 7.809e+04 / 92
p0 203.8 ± 0.1538
900
800
700
600
500
400
300
200

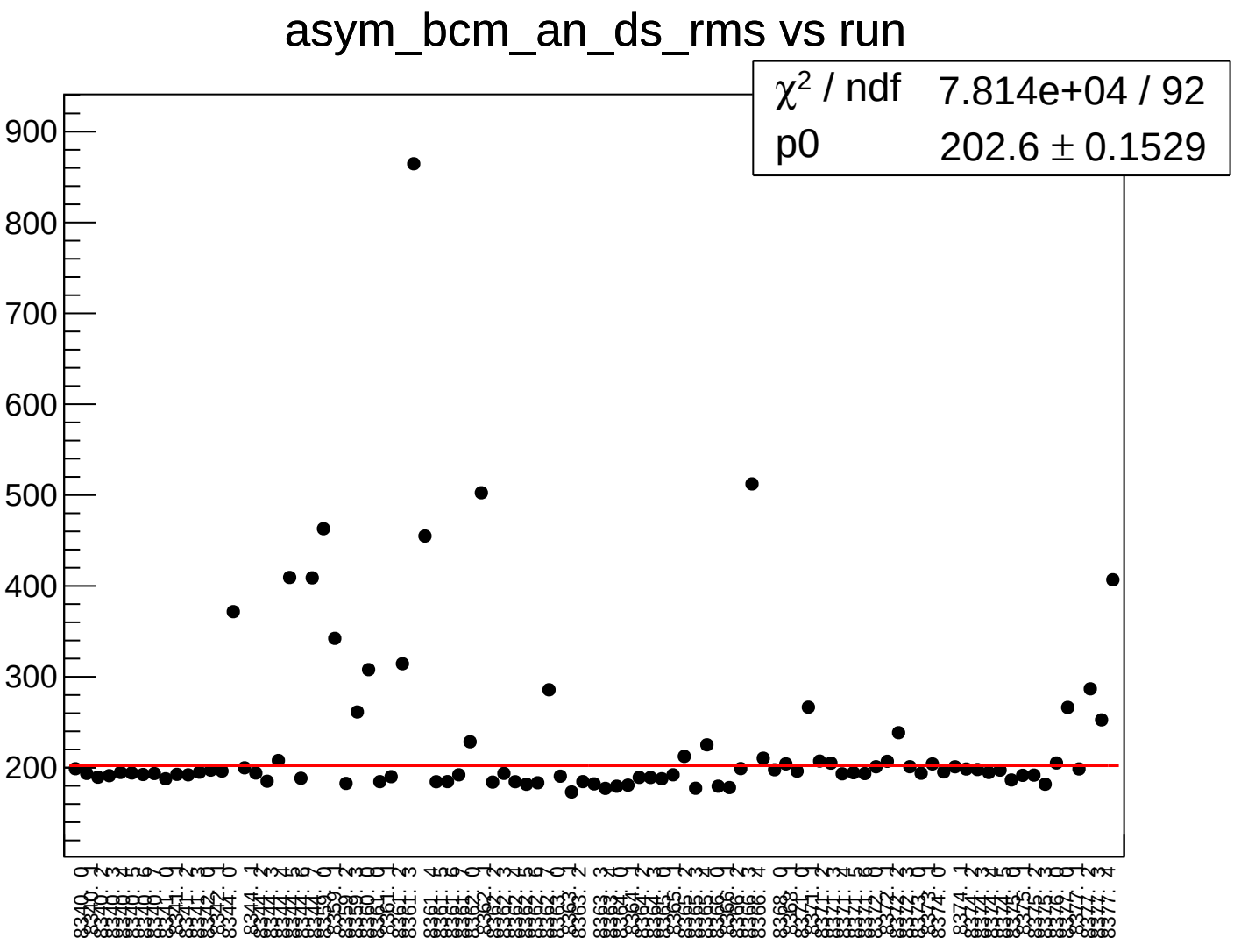

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 96.58 / 92
p0 −67.21± 35.63
600
400
200
0
−200
−400
pull
Entries 93
Mean 6.673
Std Dev 0
3
2
1
0
−1
−2

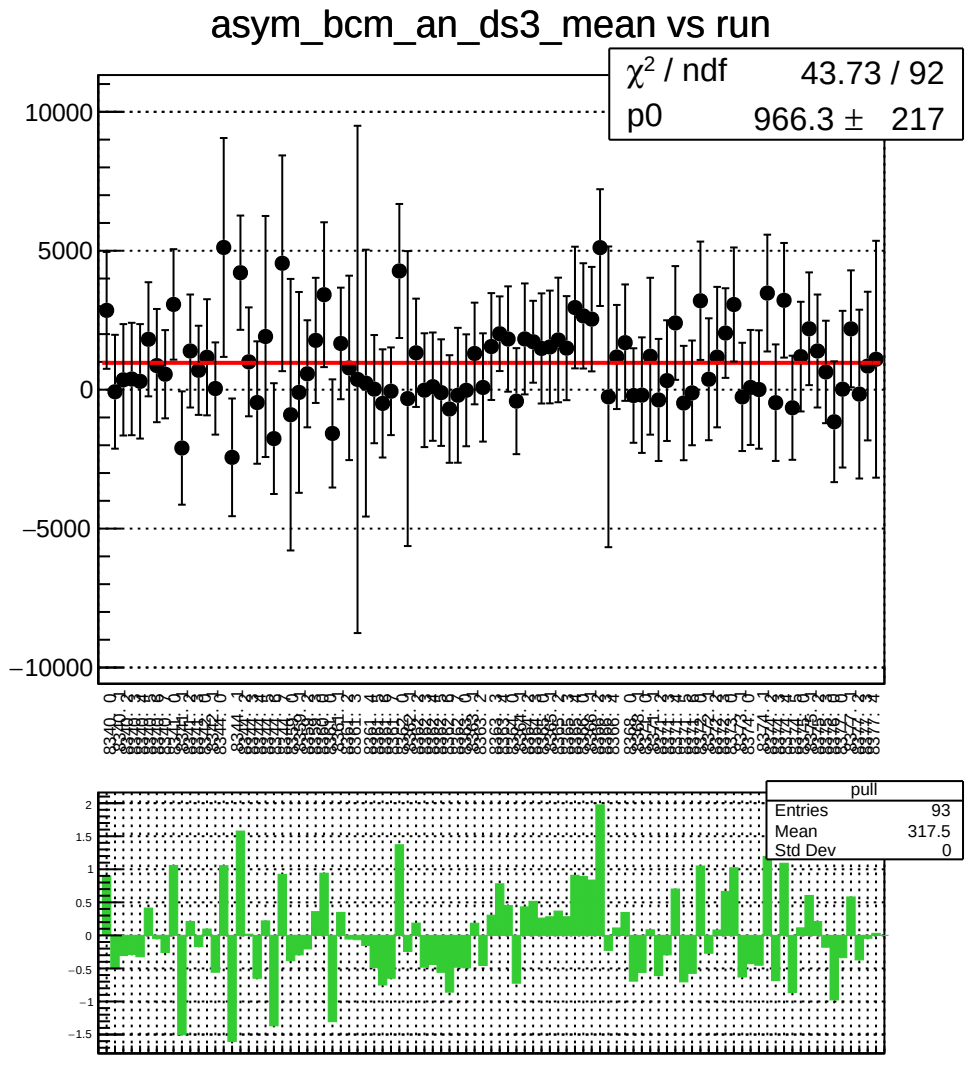

pull1D
Entries 93
Mean 0.02233
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

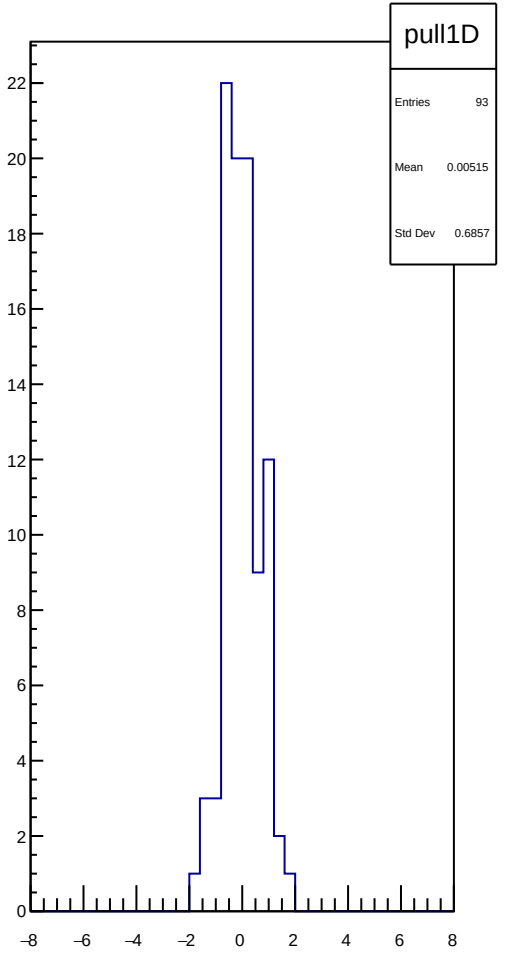

asym_bcm_an_diff_rms vs run
×10^3
χ^2 / ndf 2.853e+05 / 76
p0 2.784e+04 ± 25.2
350
300
250
200
150
100
50

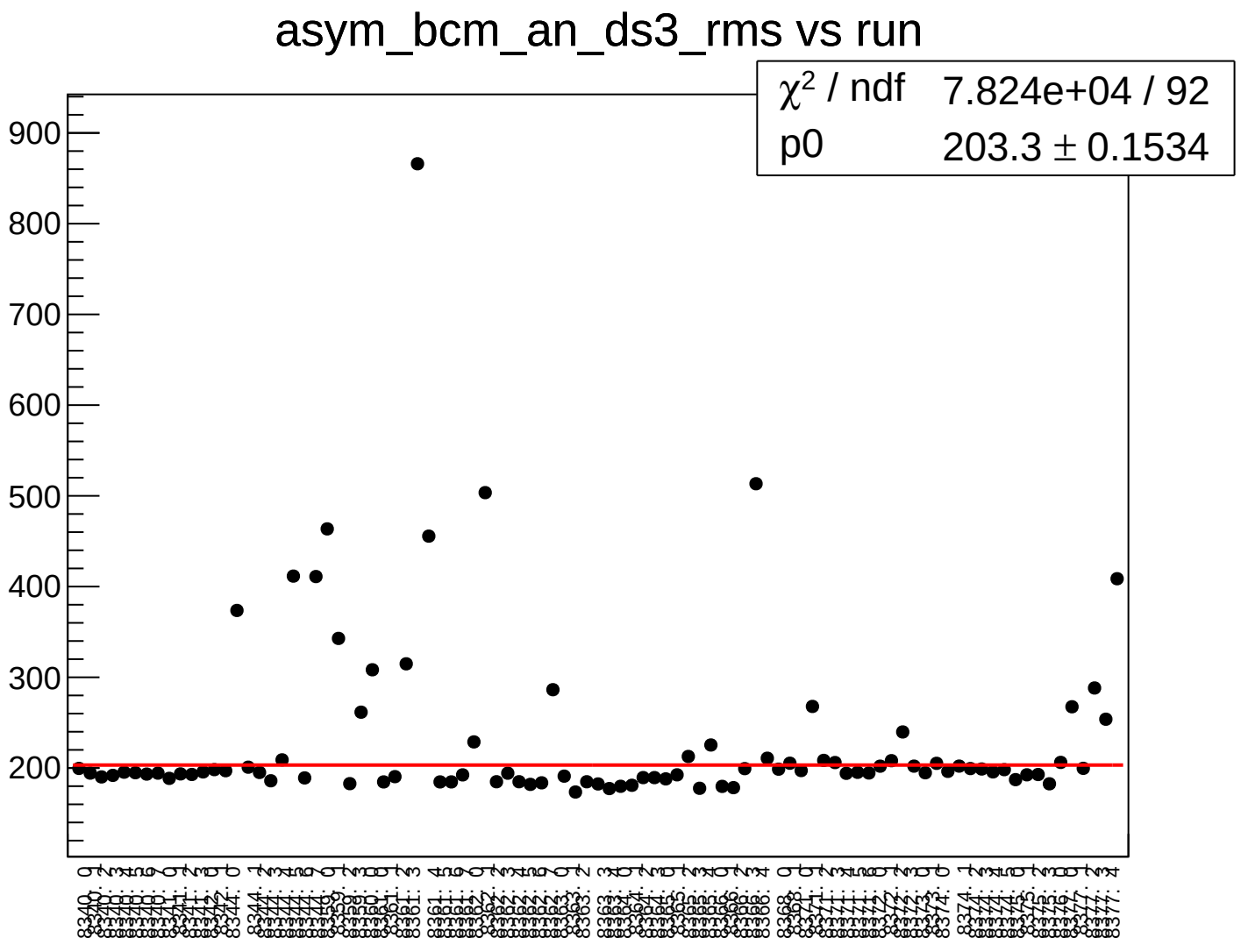

asym_bcm_an_ds_mean vs run
χ² / ndf 44.29 / 92
p0 956.4 ± 216.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 296.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

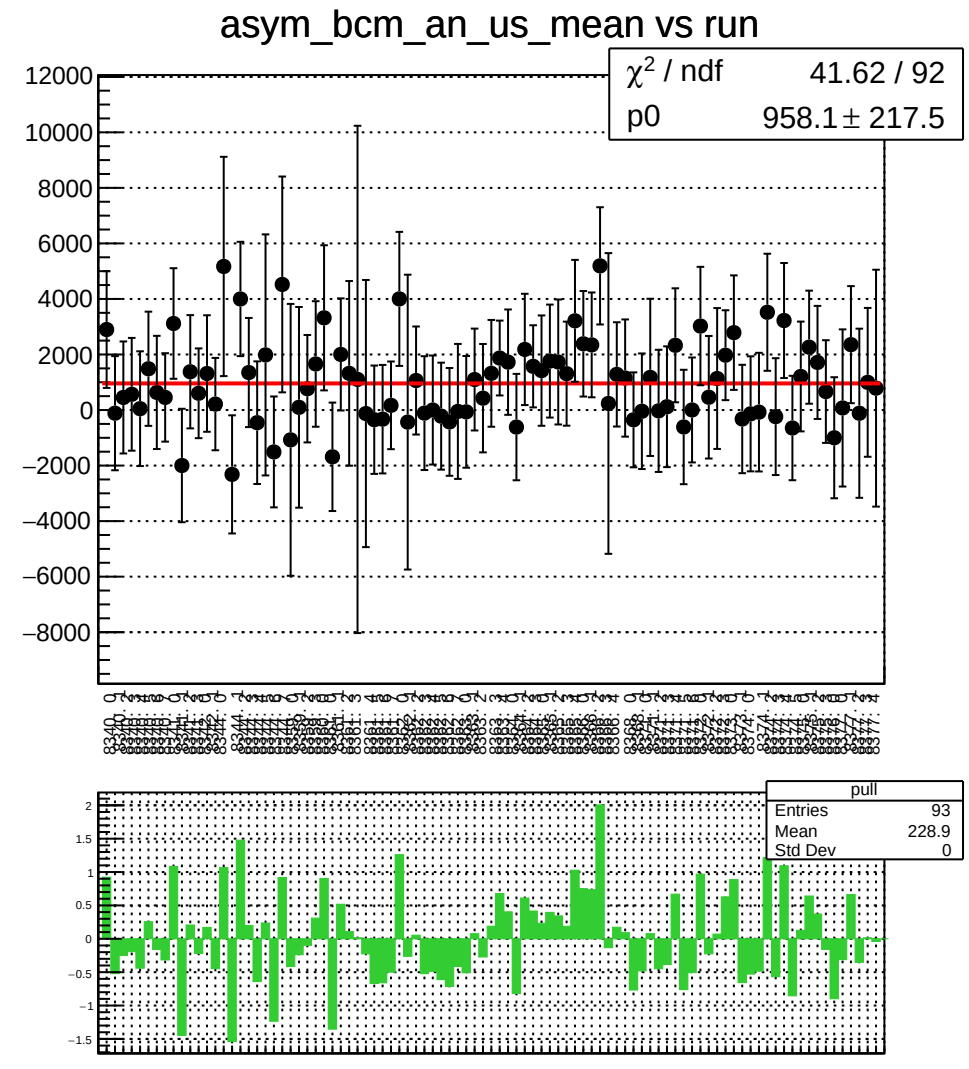

pull1D
Entries 93
Mean 0.005546
Std Dev 0.6901
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

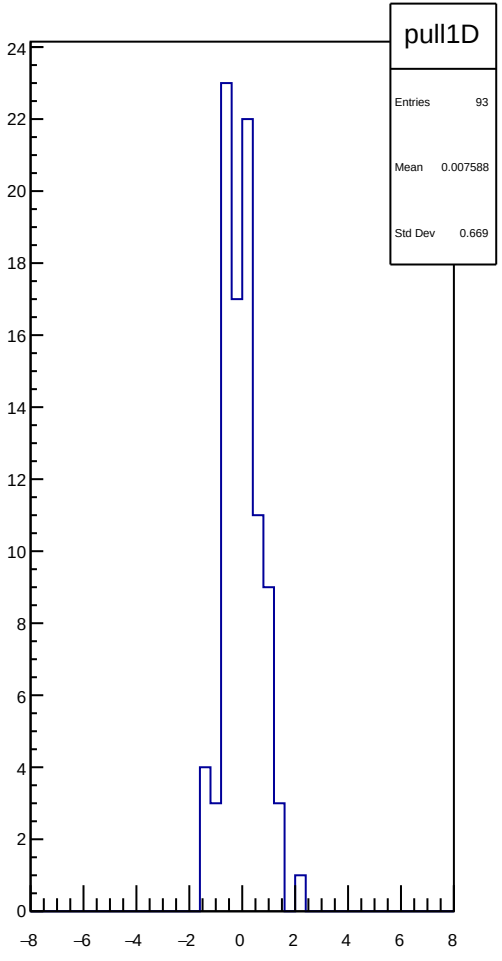

asym_bcm_an_ds_rms vs run
χ² / ndf 7.814e+04 / 92
p0 202.6 ± 0.1529
900
800
700
600
500
400
300
200

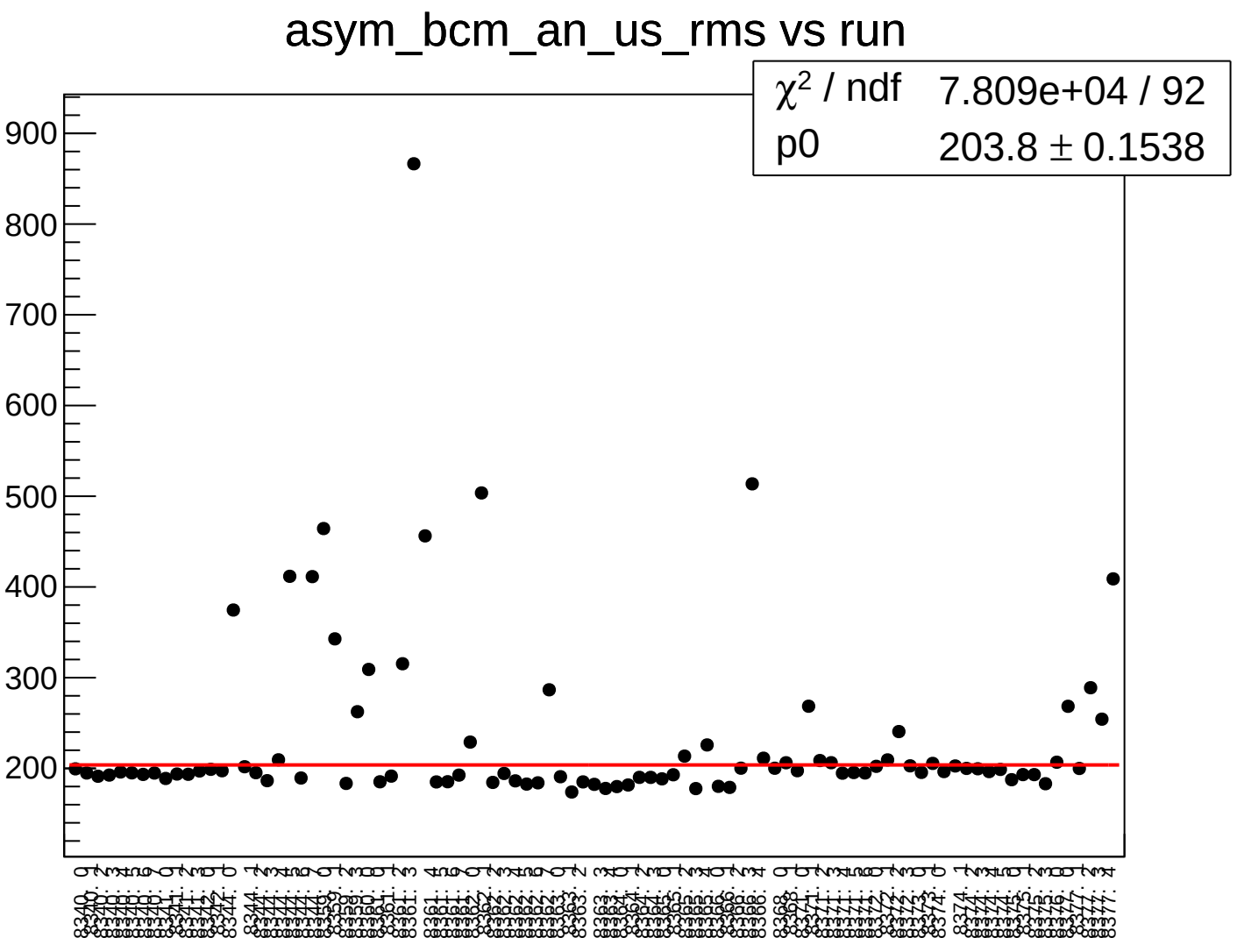

asym_bcm_an_ds3_mean vs run
χ² / ndf 43.73 / 92
p0 966.3 ± 217
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 317.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

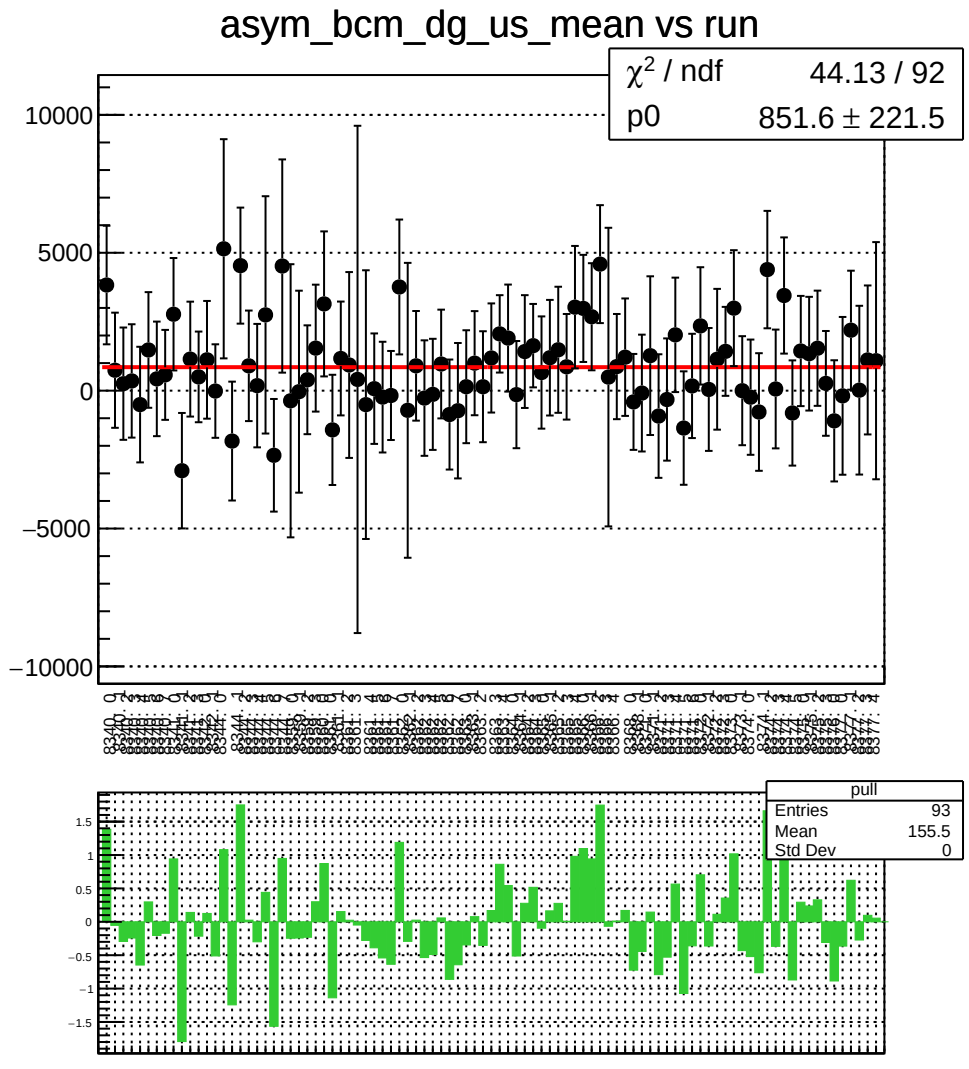

pull1D
Entries 93
Mean 0.00515
Std Dev 0.6857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

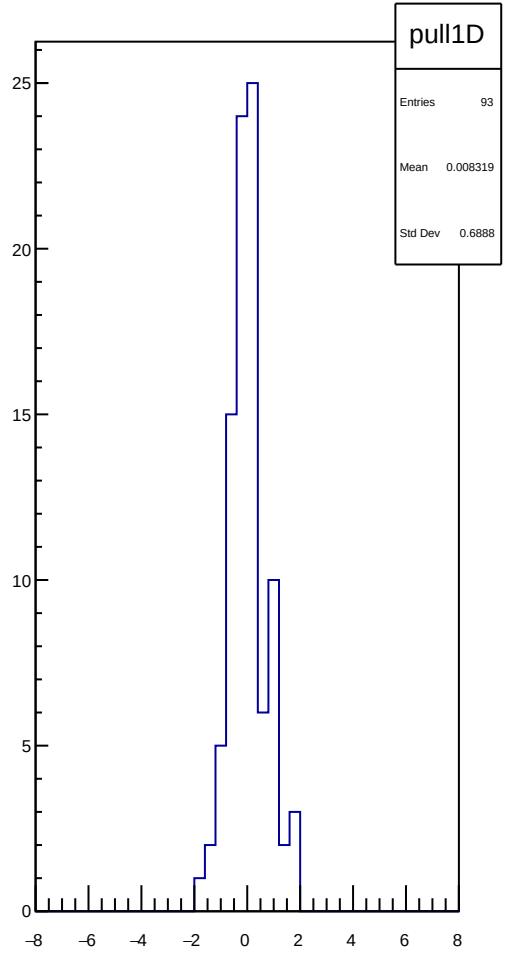

asym_bcm_an_ds3_rms vs run
χ² / ndf 7.824e+04 / 92
p0 203.3 ± 0.1534
900
800
700
600
500
400
300
200

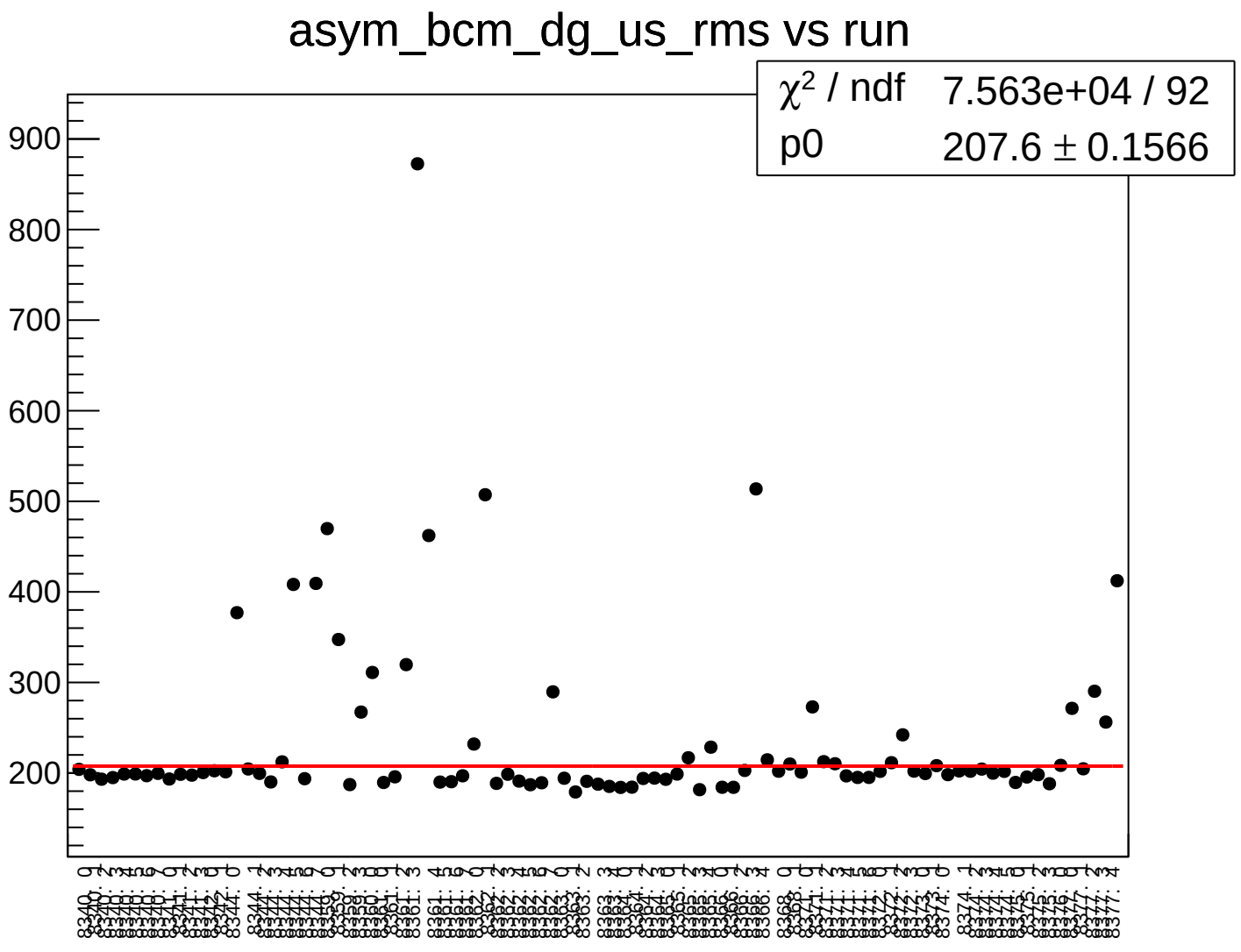

asym_bcm_an_us_mean vs run
χ^2 / ndf 41.62 / 92
p0 958.1 ± 217.5
pull
Entries 93
Mean 228.9
Std Dev 0

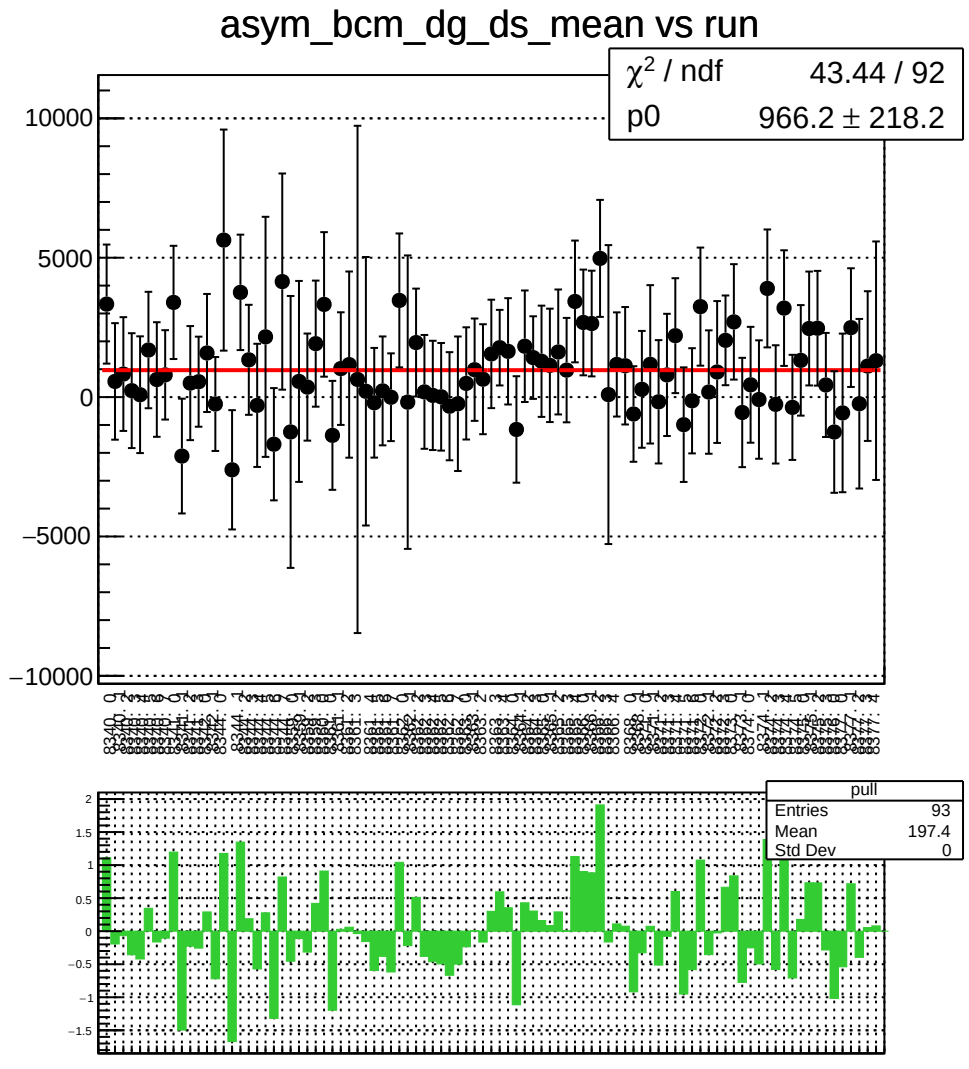

pull1D
Entries 93
Mean 0.007588
Std Dev 0.669

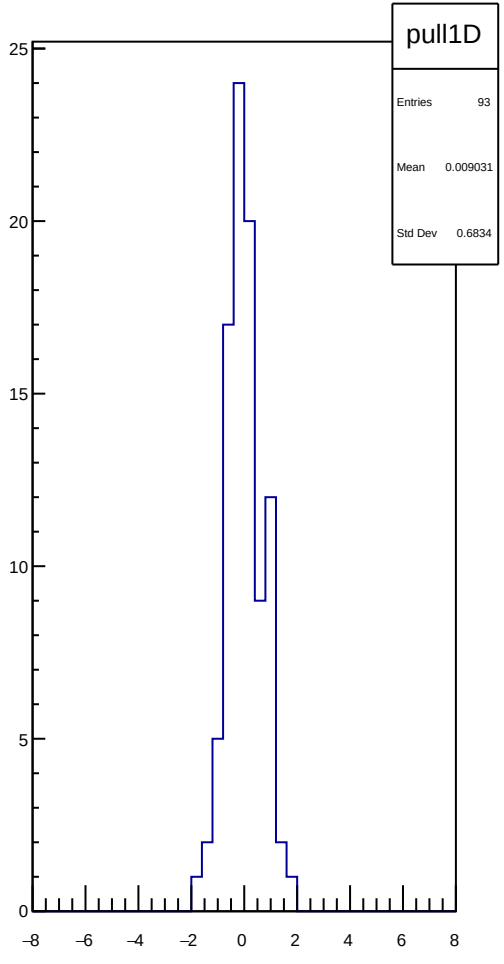

asym_bcm_an_us_rms vs run
χ² / ndf 7.809e+04 / 92
p0 203.8 ± 0.1538
900
800
700
600
500
400
300
200

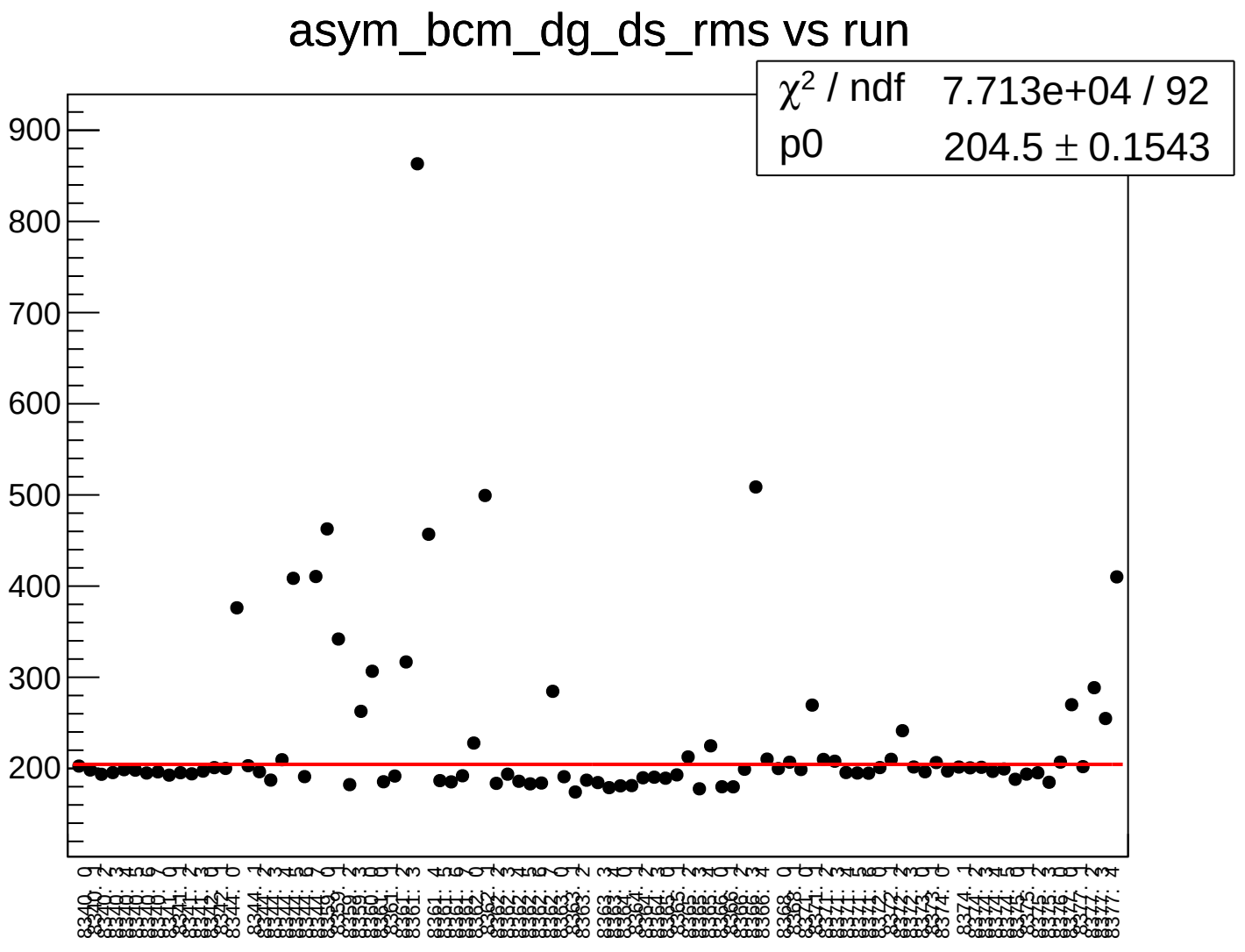

asym_bcm_dg_us_mean vs run
χ² / ndf 44.13 / 92
p0 851.6 ± 221.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 155.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

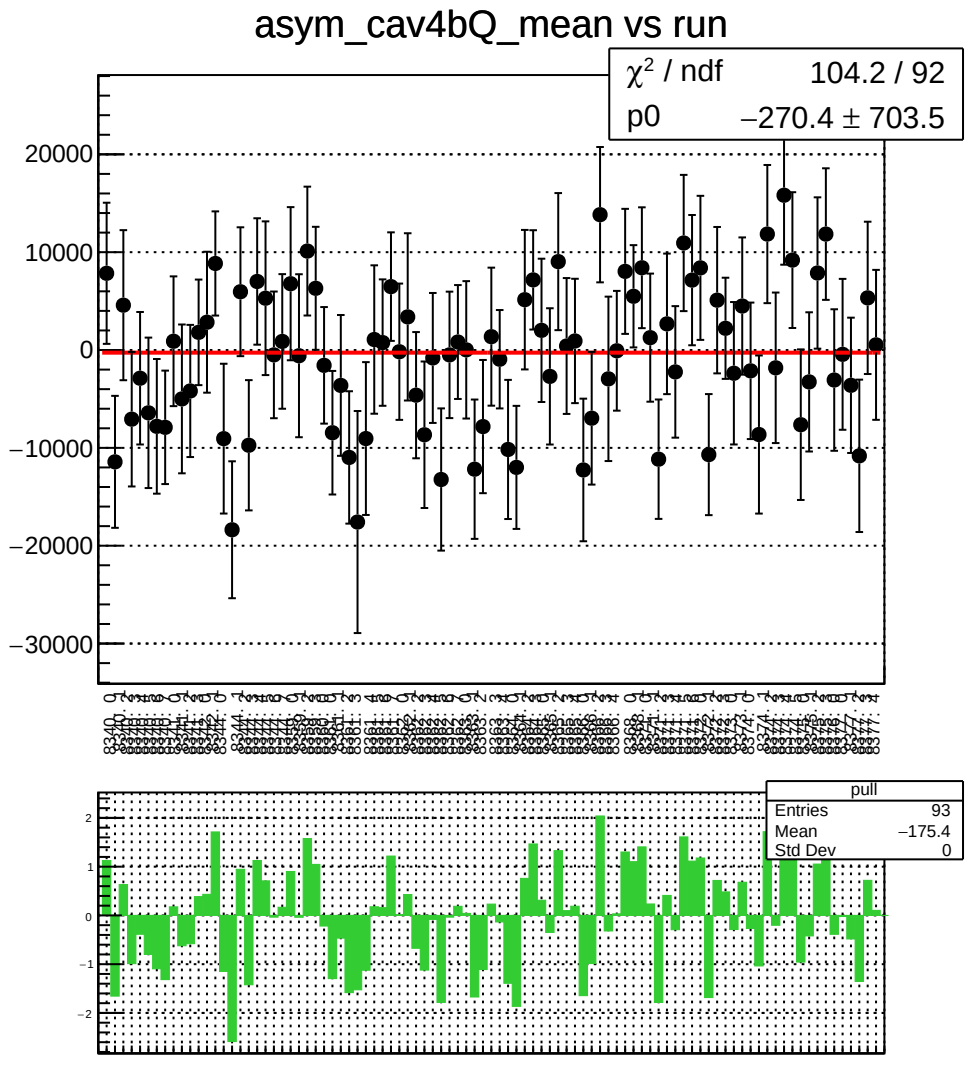

pull1D
Entries 93
Mean 0.008319
Std Dev 0.6888
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

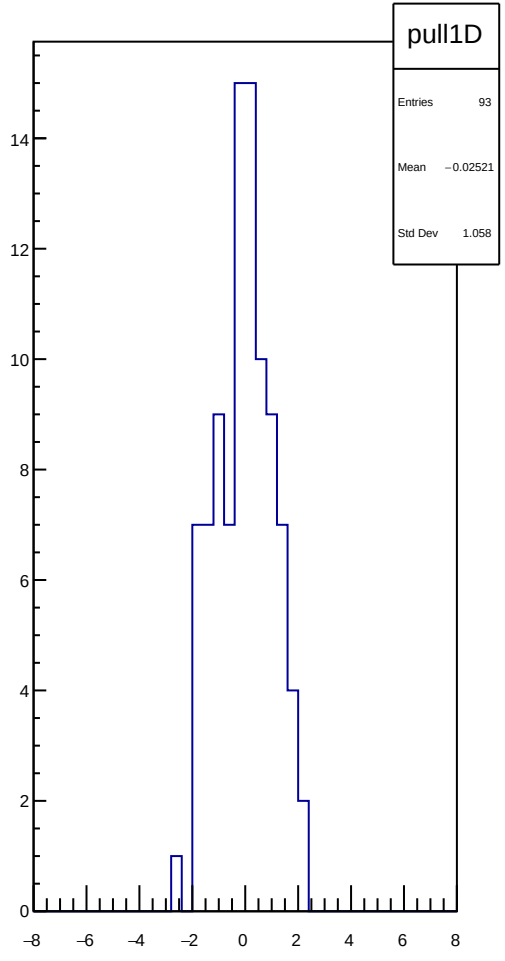

asym_bcm_dg_us_rms vs run
χ² / ndf 7.563e+04 / 92
p0 207.6 ± 0.1566
900
800
700
600
500
400
300
200

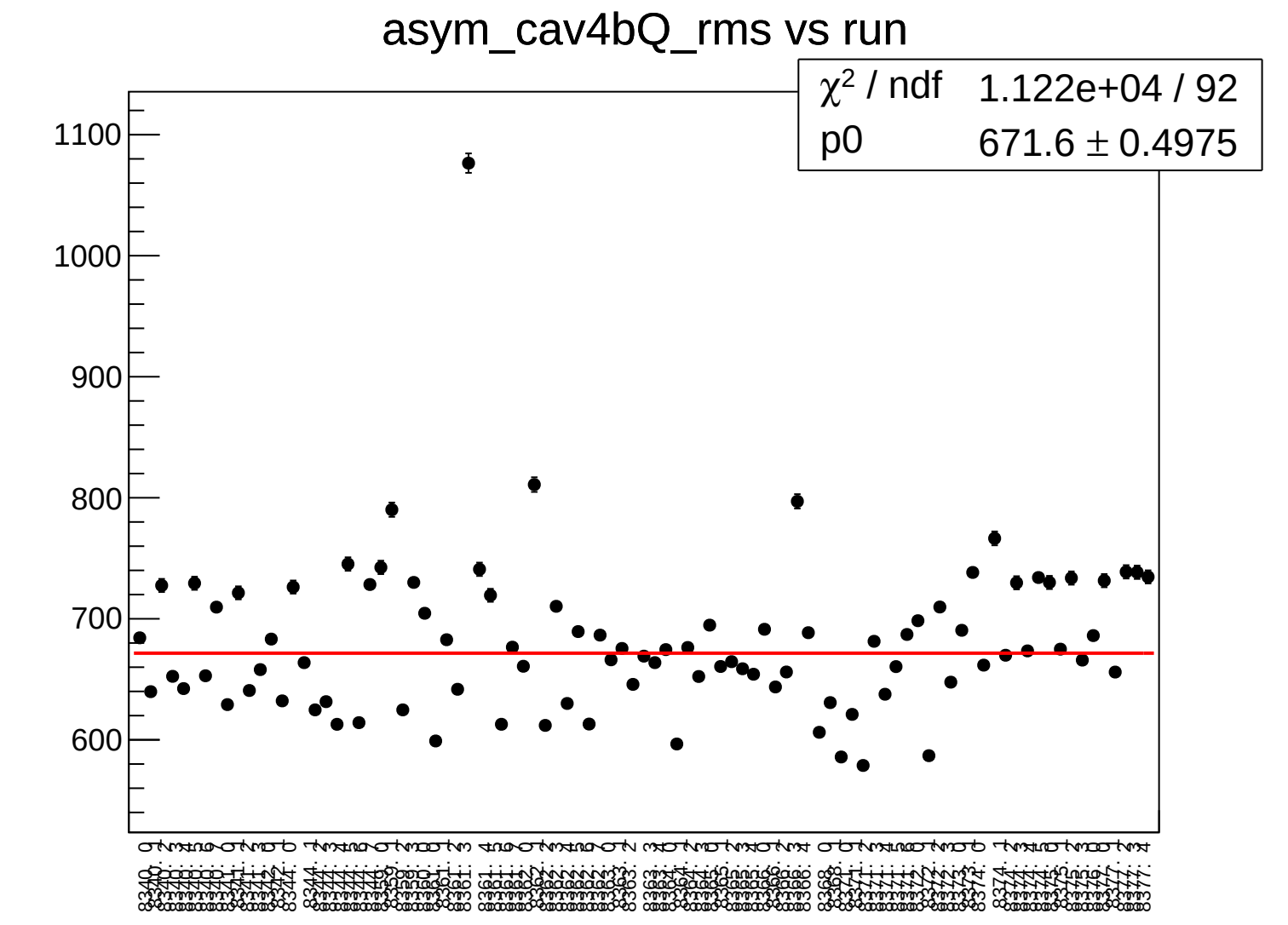

asym_bcm_dg_ds_mean vs run
χ² / ndf 43.44 / 92
p0 966.2 ± 218.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 197.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

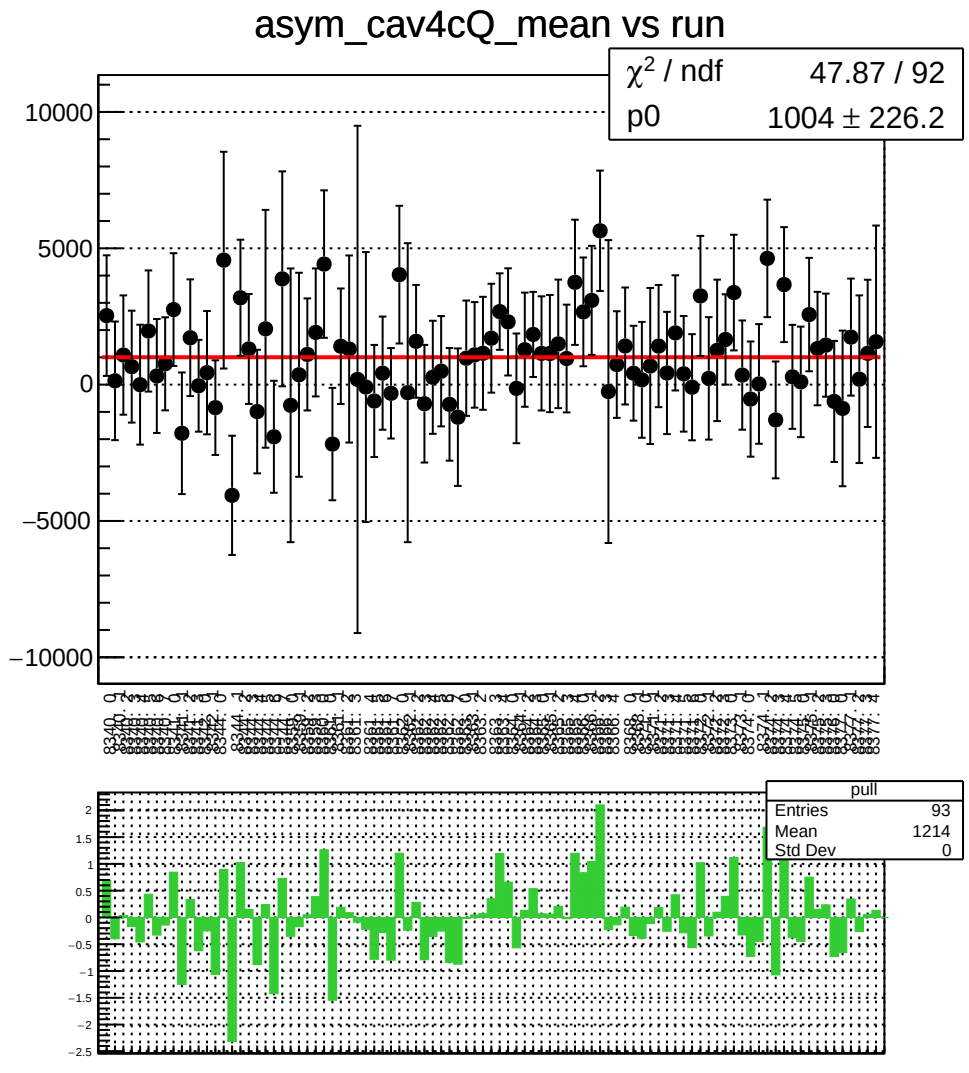

pull1D
Entries 93
Mean 0.009031
Std Dev 0.6834
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

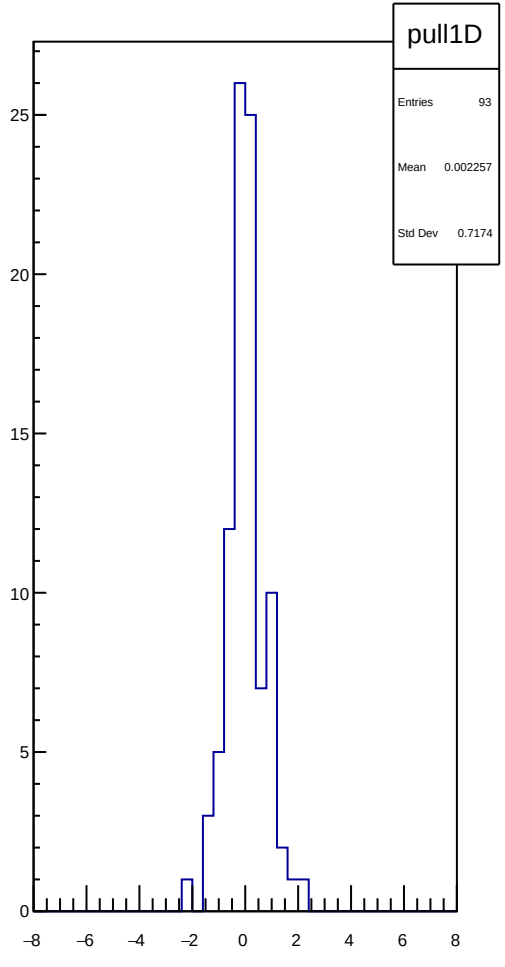

asym_bcm_dg_ds_rms vs run
χ² / ndf 7.713e+04 / 92
p0 204.5 ± 0.1543
900
800
700
600
500
400
300
200

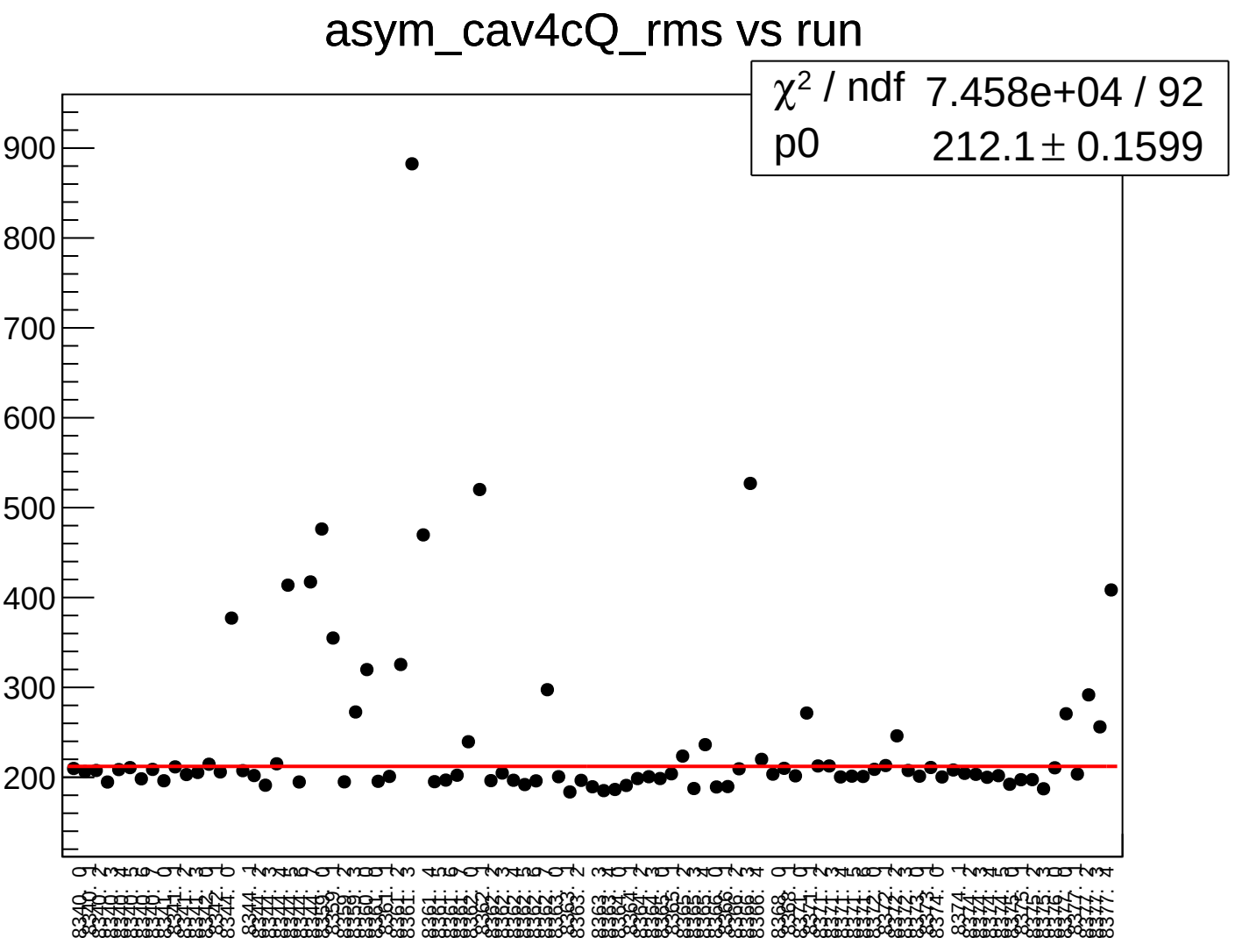

asym_cav4bQ_mean vs run
χ² / ndf 104.2 / 92
p0 −270.4 ± 703.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −175.4
Std Dev 0
2
1
0
−1
−2

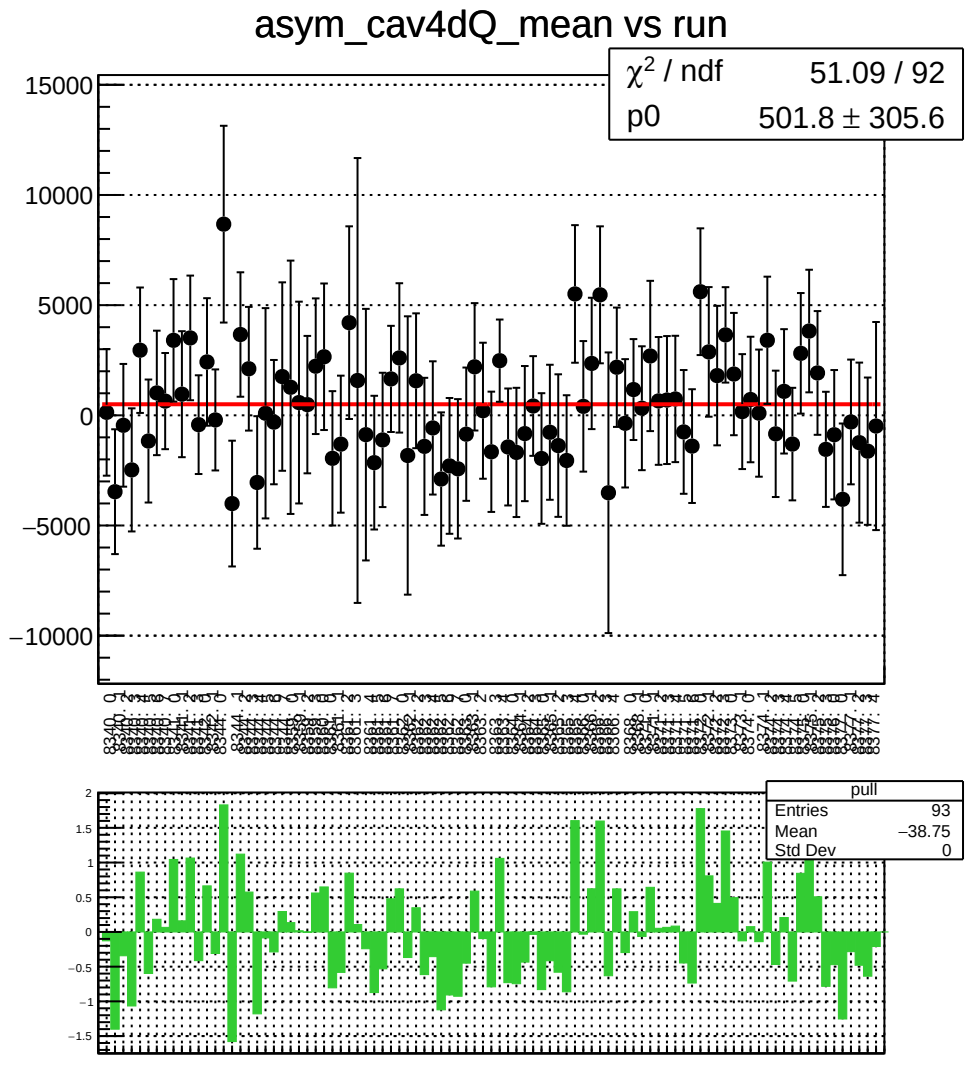

pull1D
Entries 93
Mean −0.02521
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

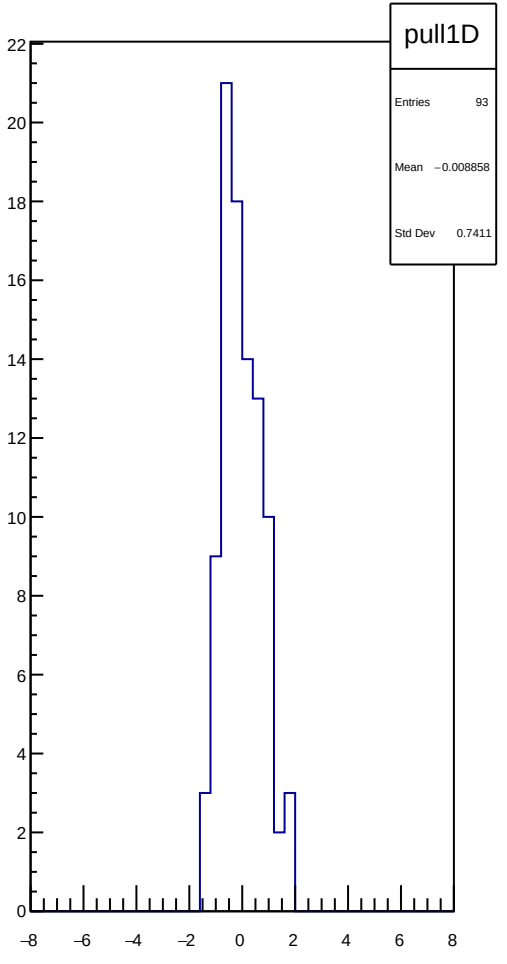

asym_cav4bQ_rms vs run
χ² / ndf 1.122e+04 / 92
p0 671.6 ± 0.4975
1100
1000
900
800
700
600

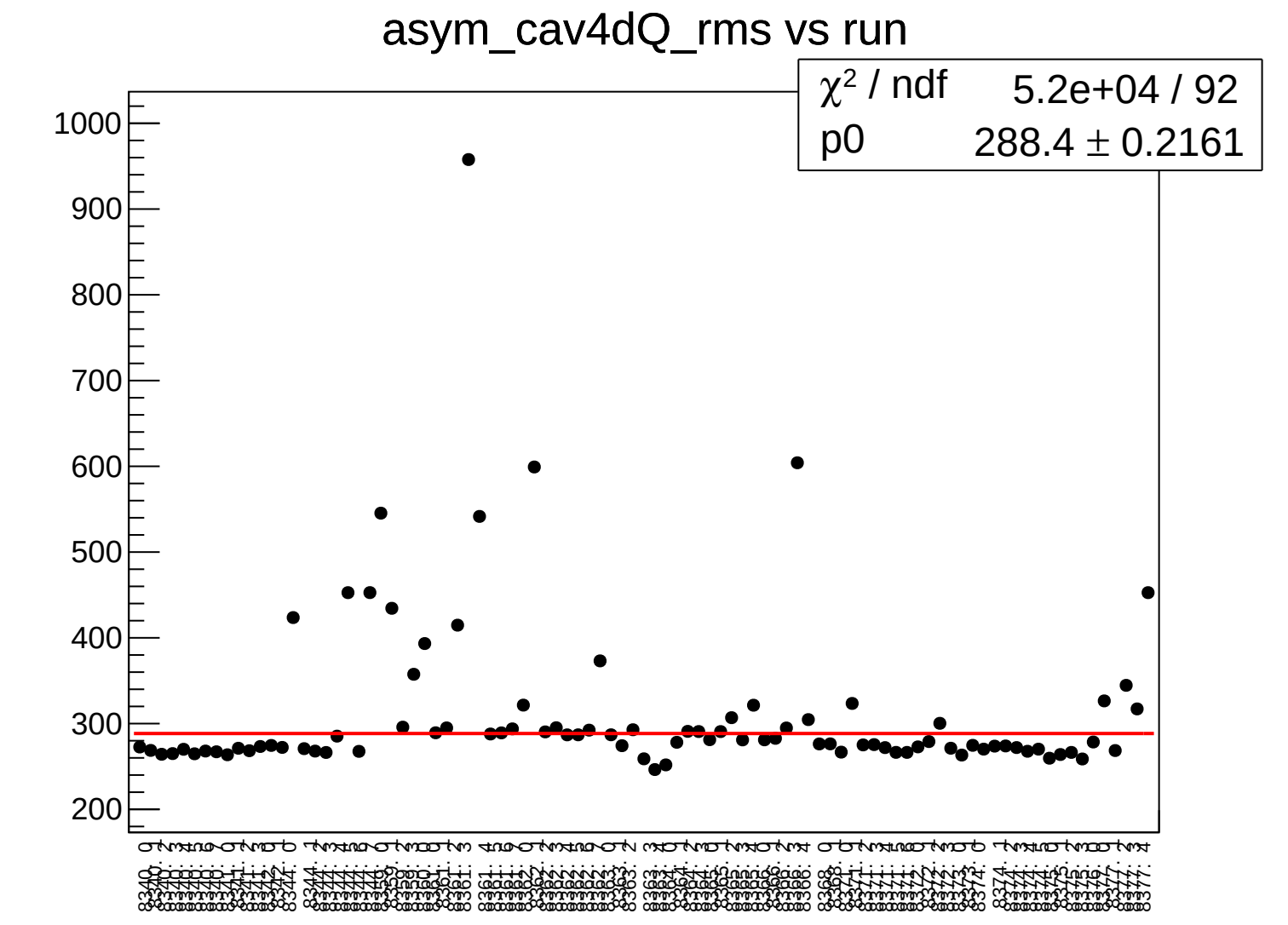

asym_cav4cQ_mean vs run
χ² / ndf 47.87 / 92
p0 1004 ± 226.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1214
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

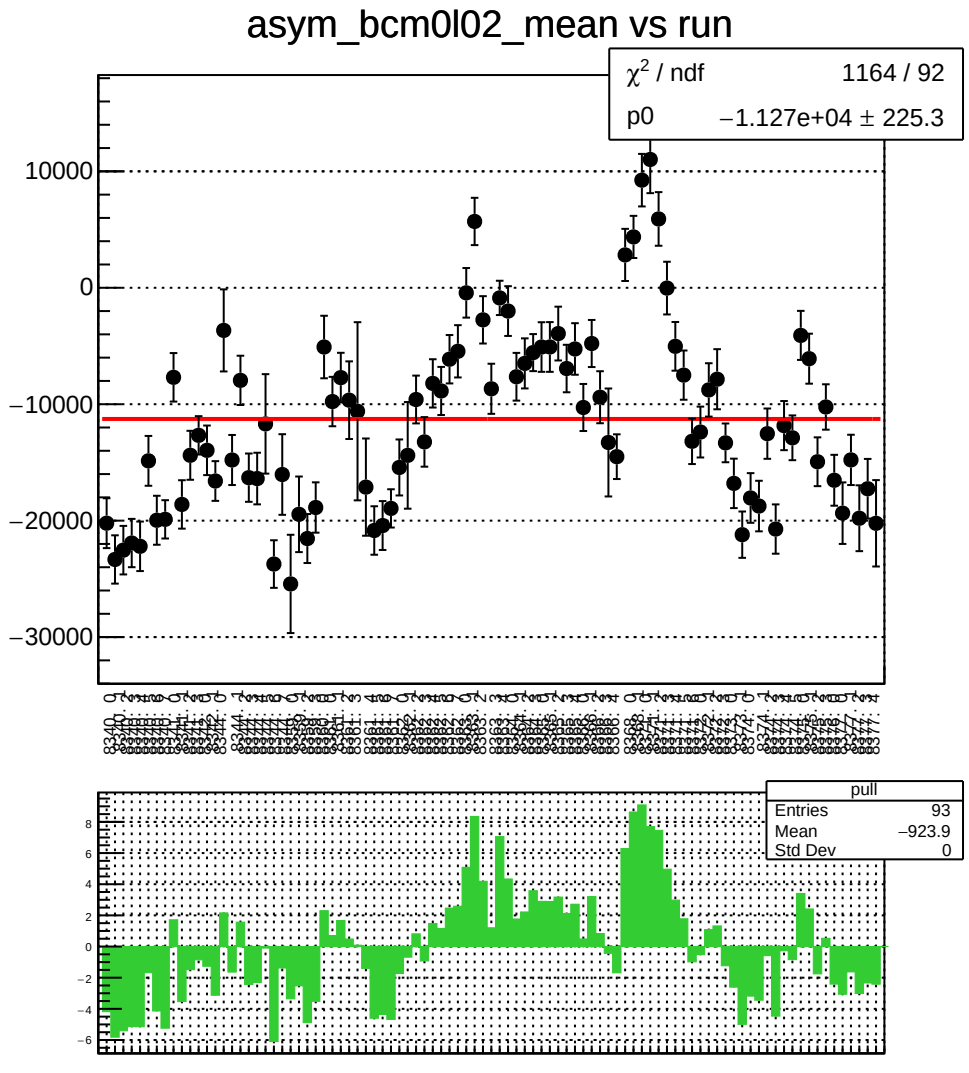

pull1D
Entries 93
Mean 0.002257
Std Dev 0.7174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

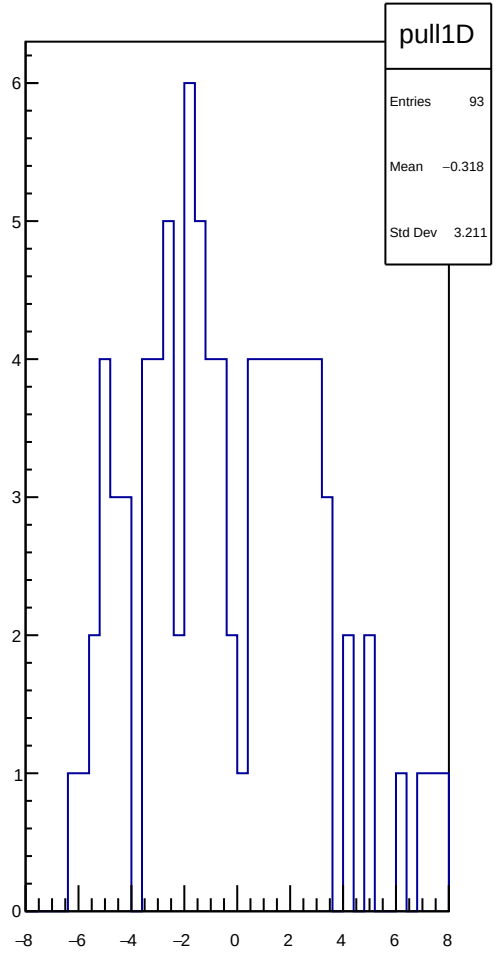

asym_cav4cQ_rms vs run
χ² / ndf 7.458e+04 / 92
p0 212.1 ± 0.1599
900
800
700
600
500
400
300
200

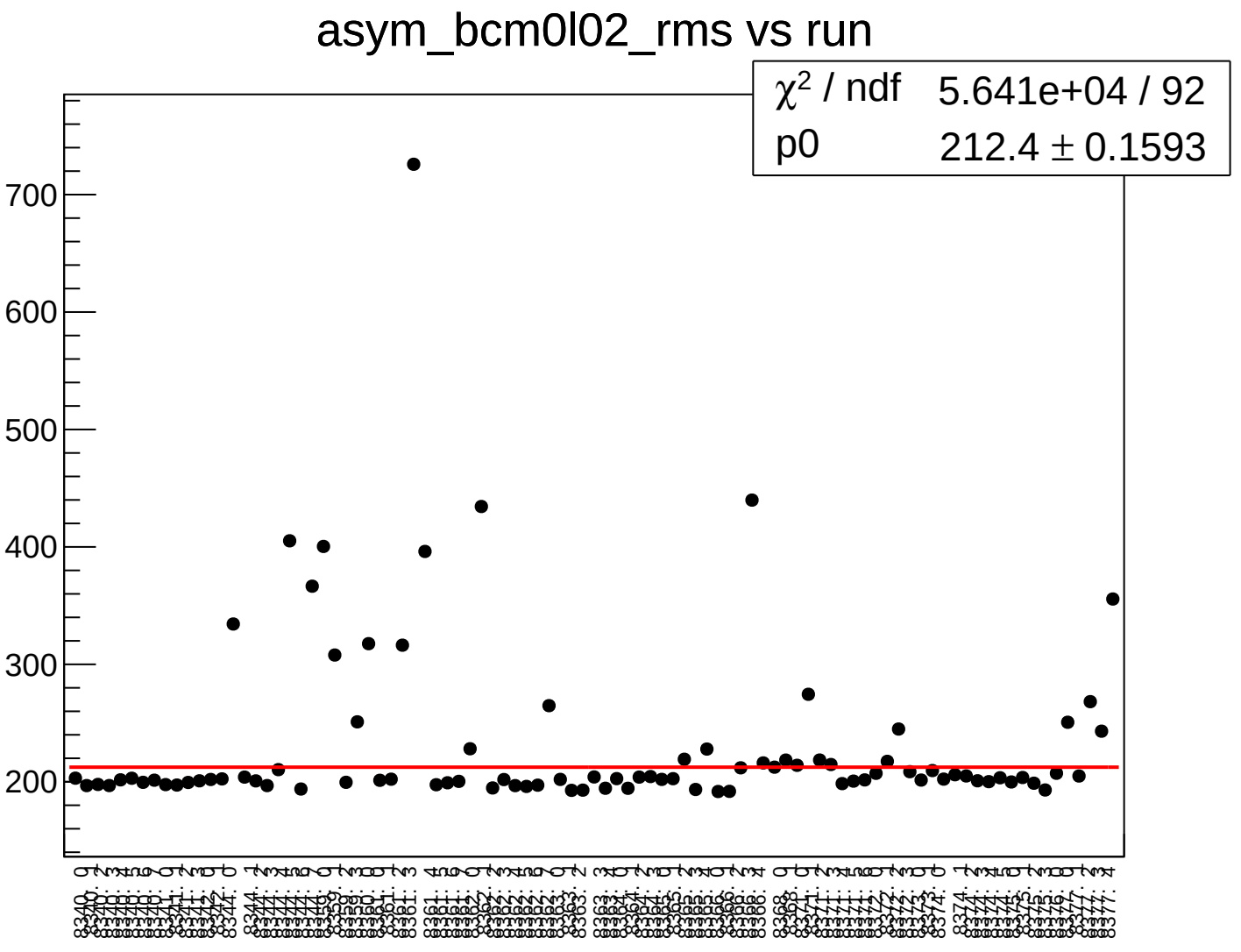

asym_cav4dQ_mean vs run
χ² / ndf 51.09 / 92
p0 501.8 ± 305.6
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −38.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

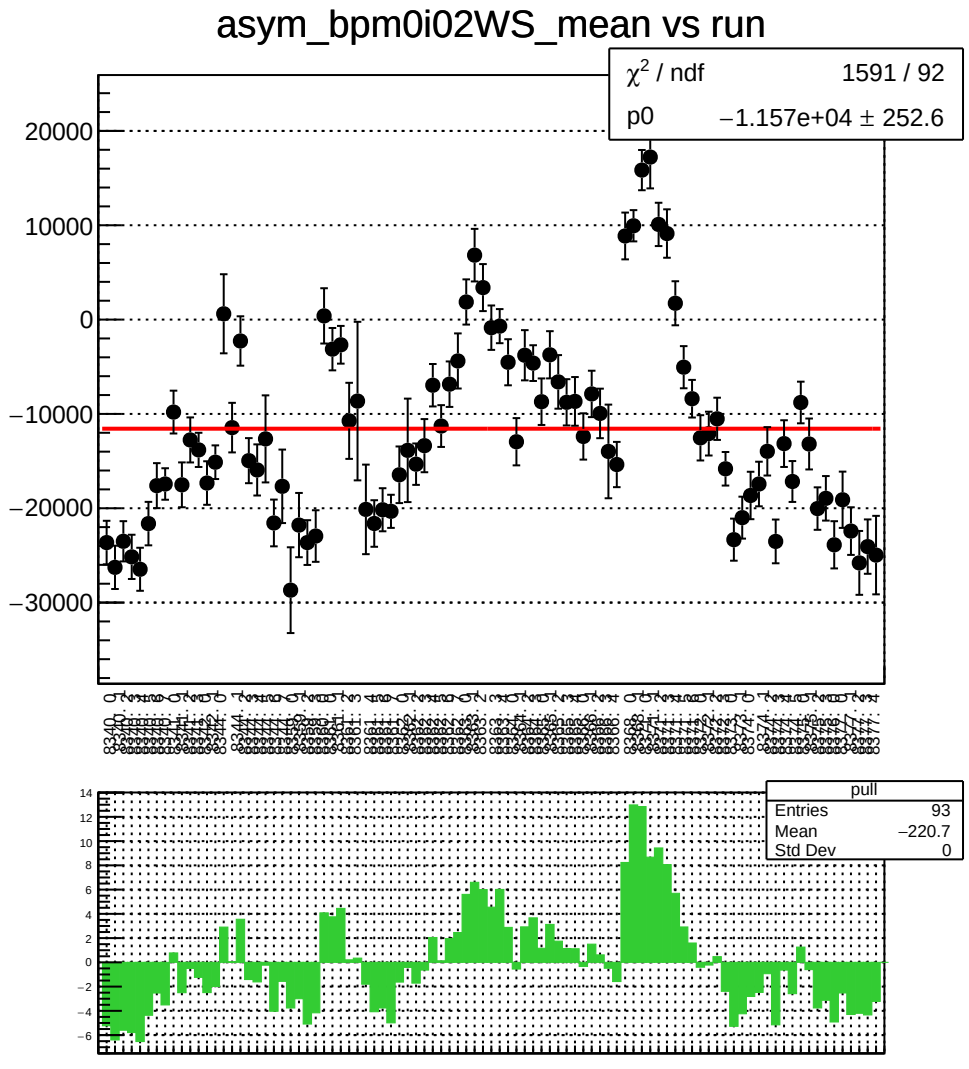

pull1D
Entries 93
Mean −0.008858
Std Dev 0.7411
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

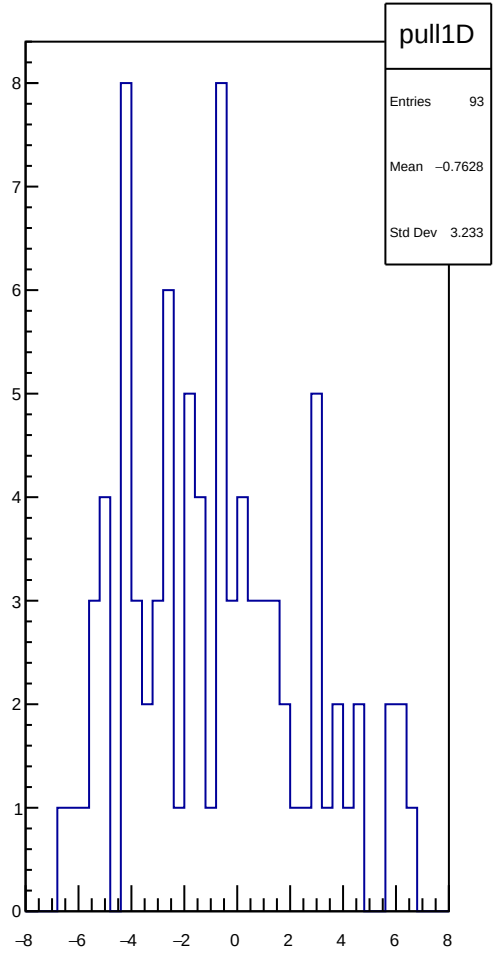

asym_cav4dQ_rms vs run
χ² / ndf 5.2e+04 / 92
p0 288.4 ± 0.2161
1000
900
800
700
600
500
400
300
200

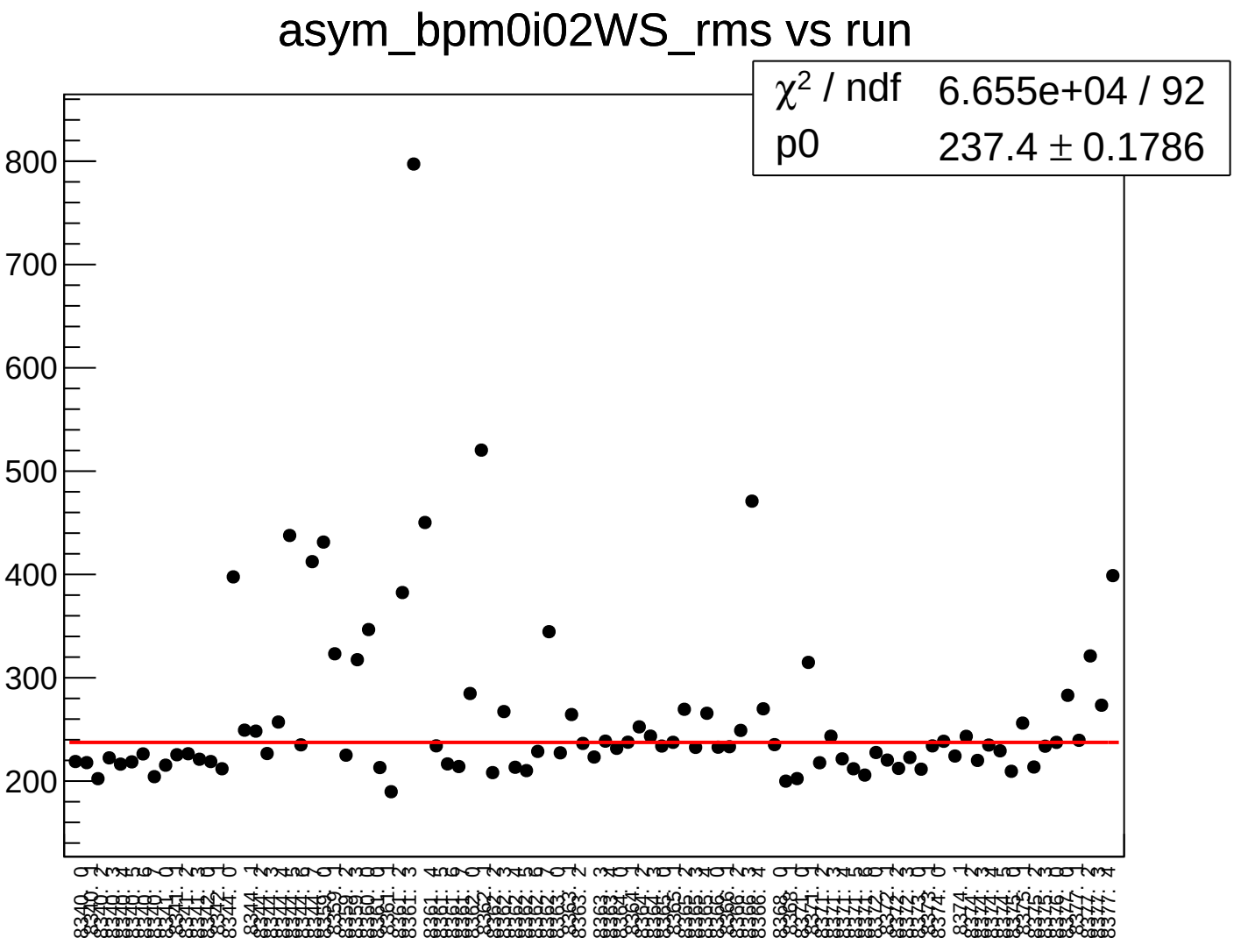

asym_bcm0l02_mean vs run
χ² / ndf 1164 / 92
p0 −1.127e+04 ± 225.3
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −923.9
Std Dev 0
8
6
4
2
0
−2
−4
−6

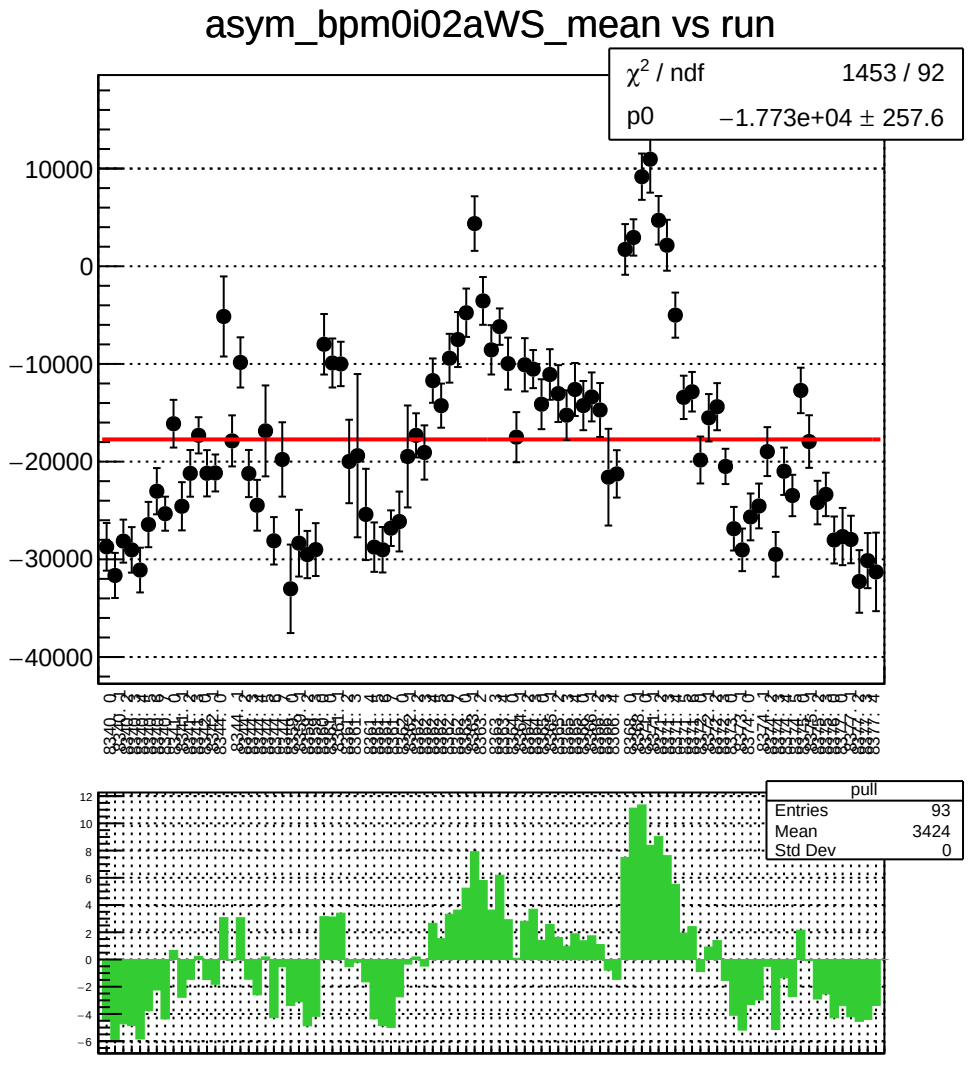

pull1D
Entries 93
Mean −0.318
Std Dev 3.211
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

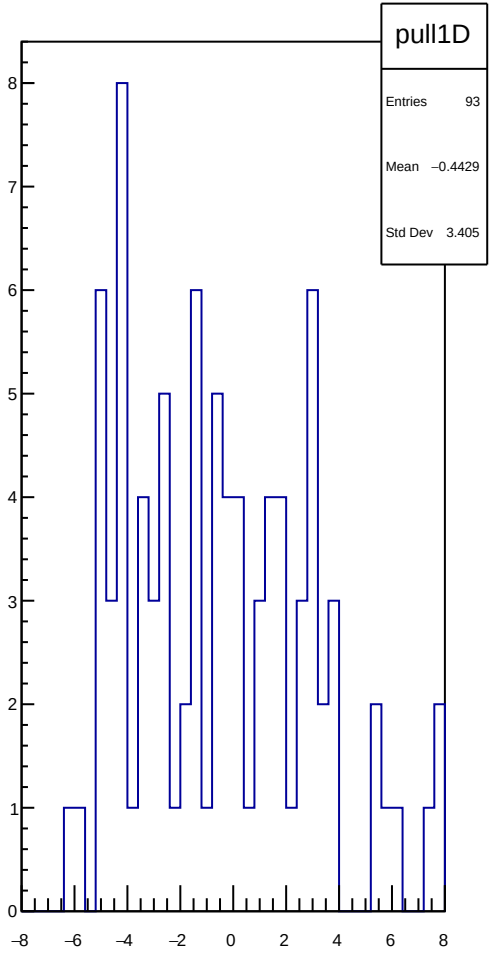

asym_bcm0l02_rms vs run
χ² / ndf 5.641e+04 / 92
p0 212.4 ± 0.1593
700
600
500
400
300
200

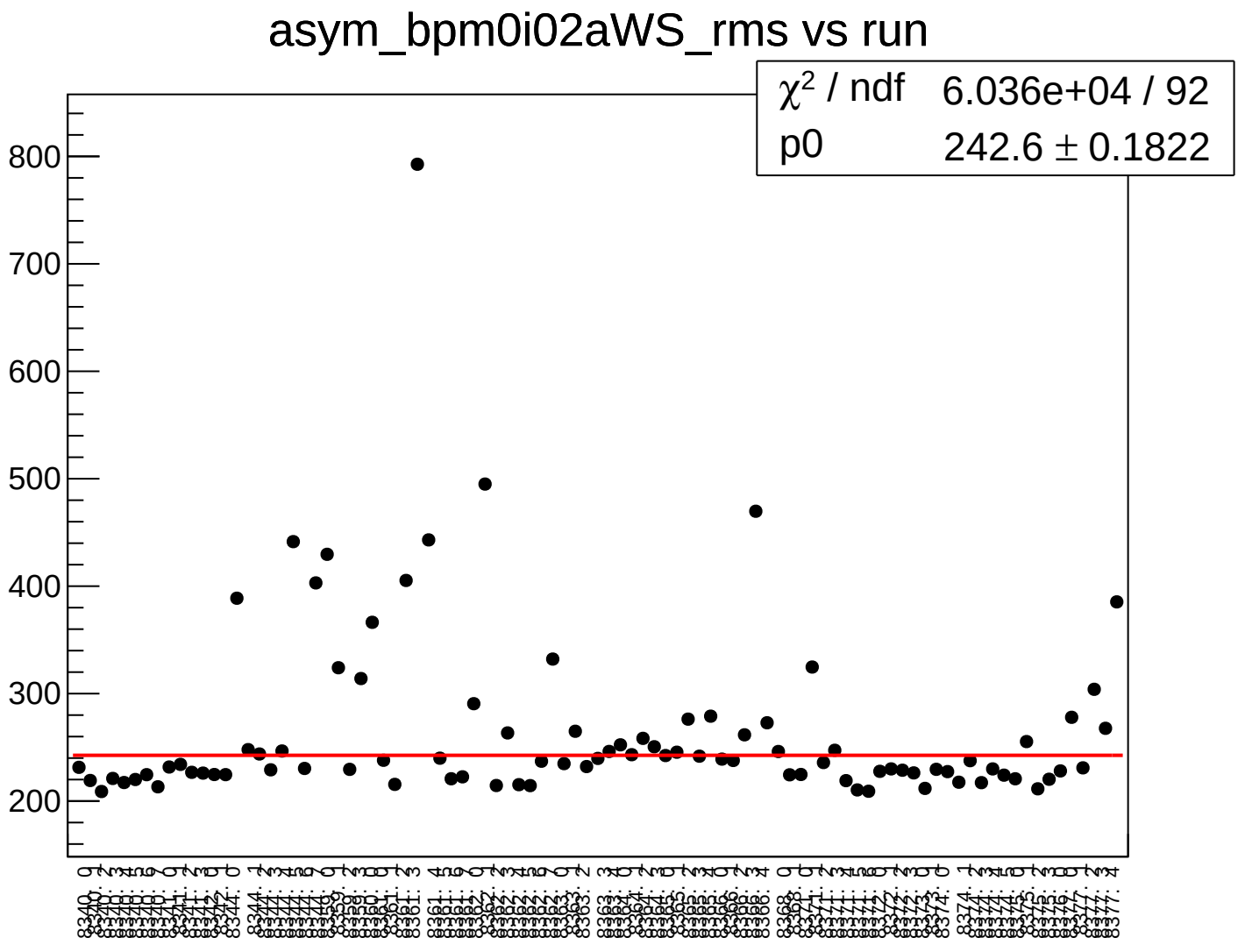

asym_bpm0i02WS_mean vs run
χ² / ndf 1591 / 92
p0 −1.157e+04 ± 252.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −220.7
Std Dev 0
14
12
10
8
6
4
2
0
−2
−4
−6

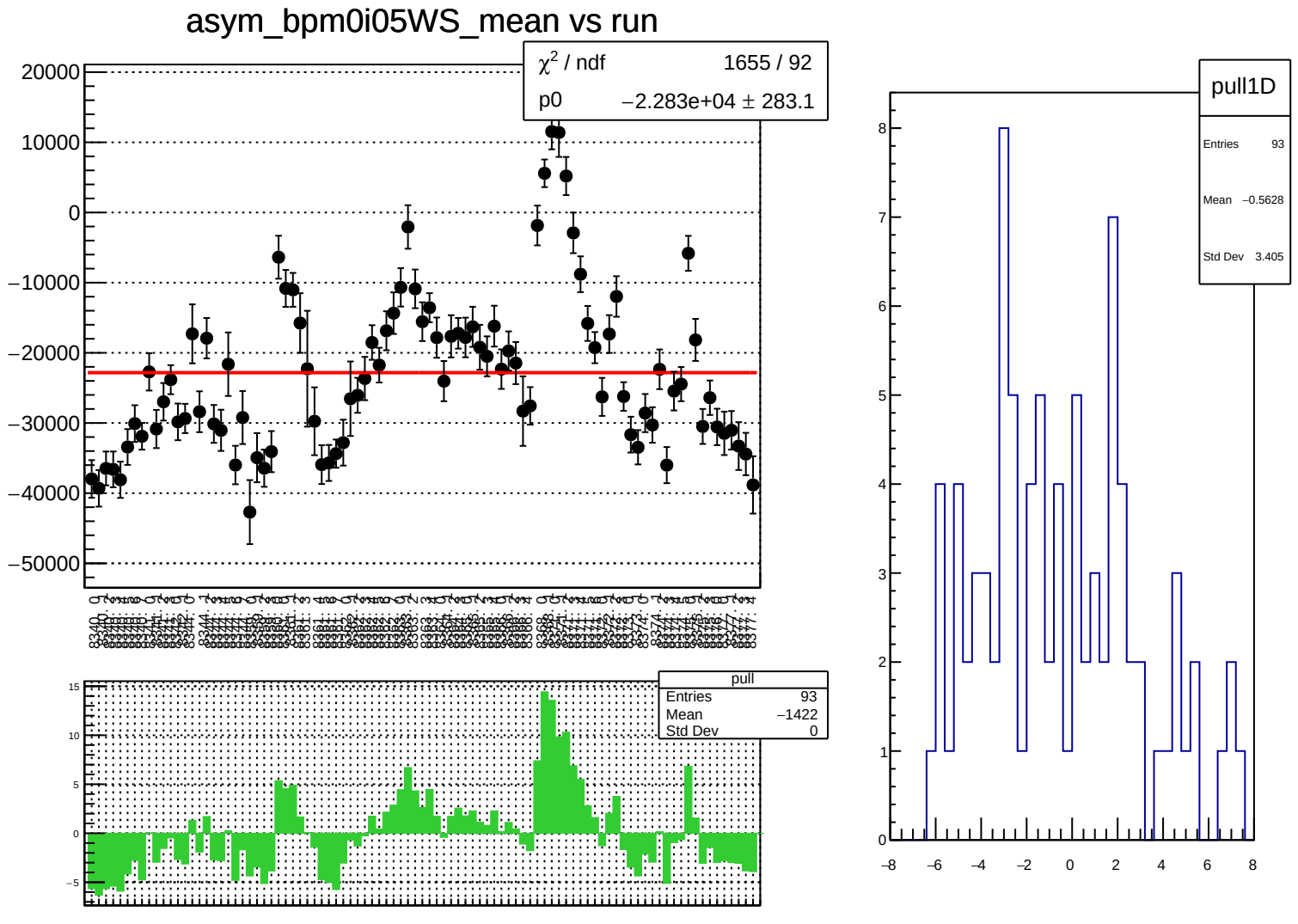

pull1D
Entries 93
Mean −0.7628
Std Dev 3.233
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

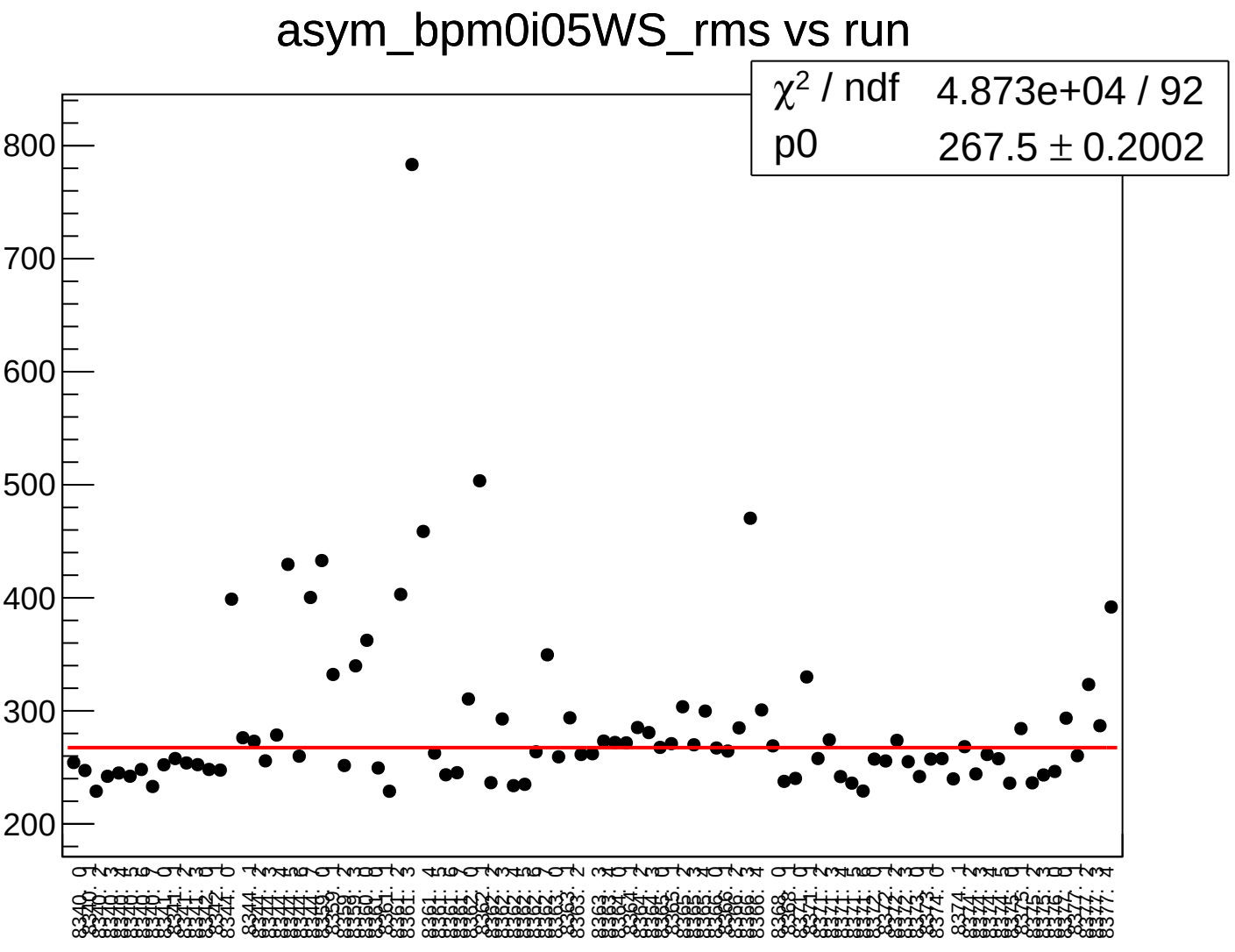

asym_bpm0i02WS_rms vs run
χ² / ndf 6.655e+04 / 92
p0 237.4 ± 0.1786
800
700
600
500
400
300
200

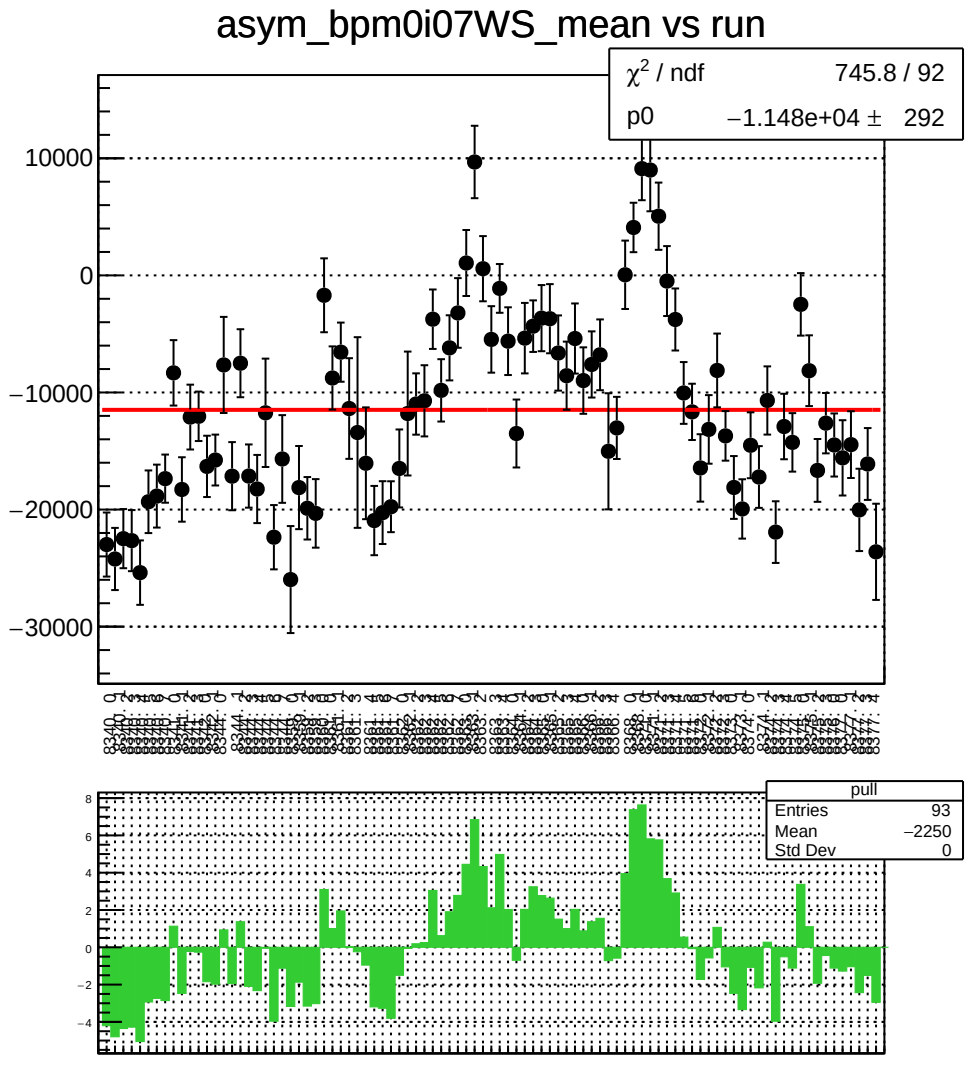

asym_bpm0i02aWS_mean vs run
χ² / ndf 1453 / 92
p0 −1.773e+04 ± 257.6
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 3424
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6

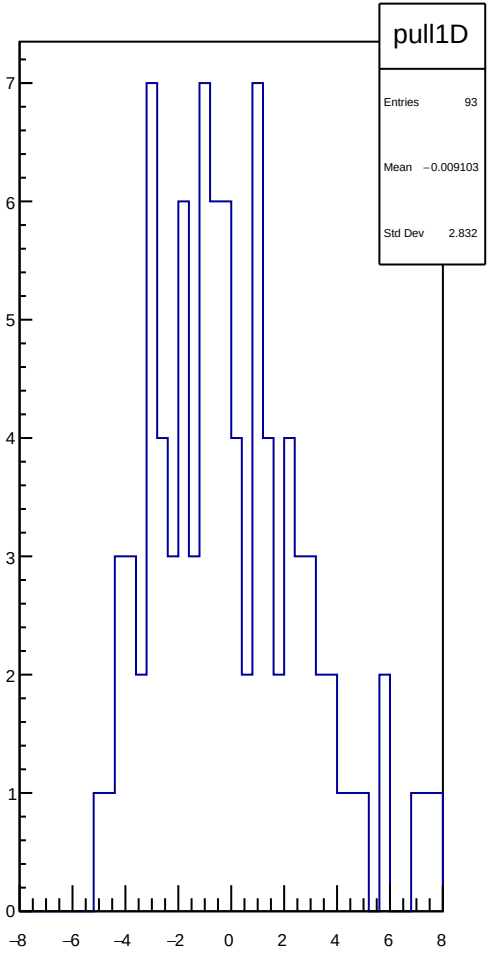

pull1D
Entries 93
Mean −0.4429
Std Dev 3.405
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

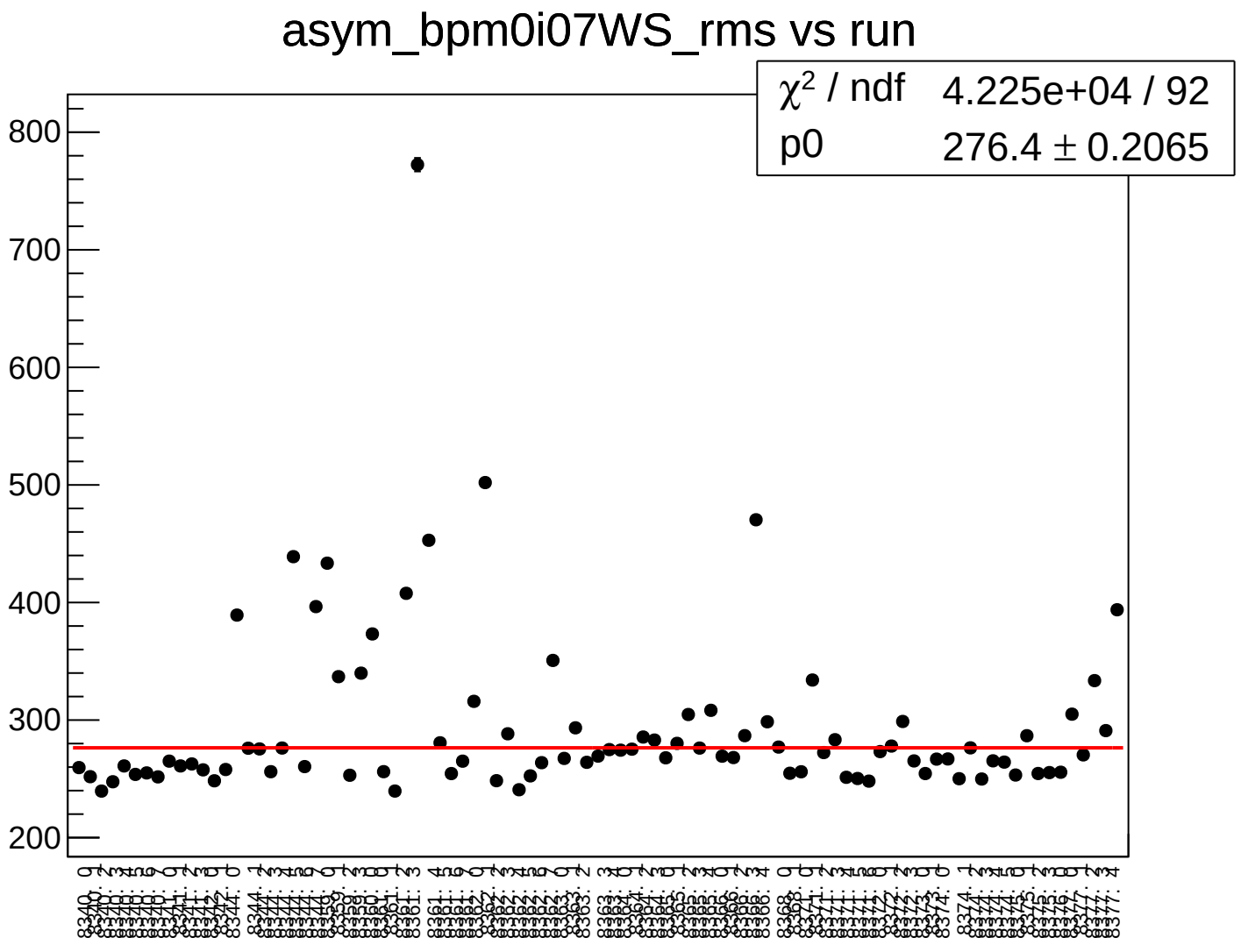

asym_bpm0i02aWS_rms vs run
χ² / ndf 6.036e+04 / 92
p0 242.6 ± 0.1822
800
700
600
500
400
300
200

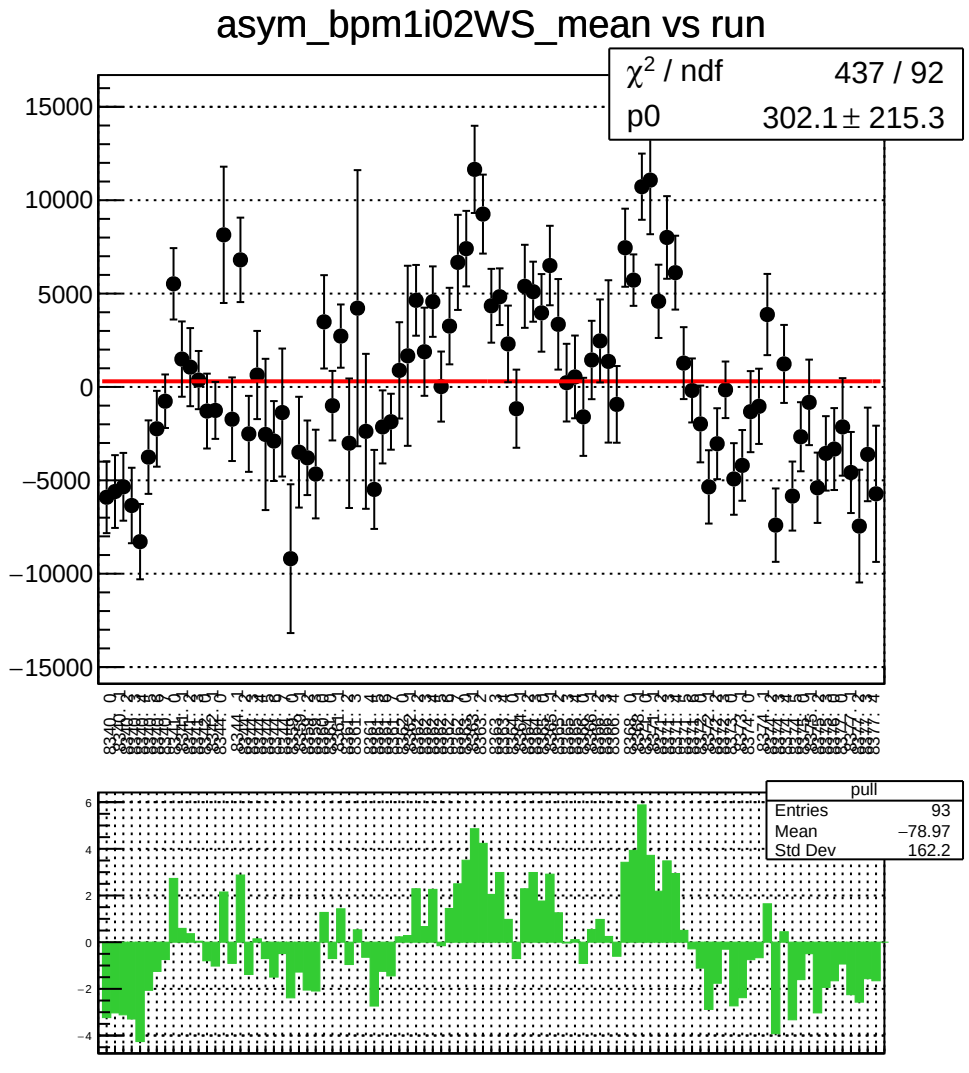

asym_bpm0i05WS_mean vs run
χ² / ndf 1655 / 92
p0 −2.283e+04 ± 283.1
pull
Entries 93
Mean −1422
Std Dev 0
pull1D
Entries 93
Mean −0.5628
Std Dev 3.405

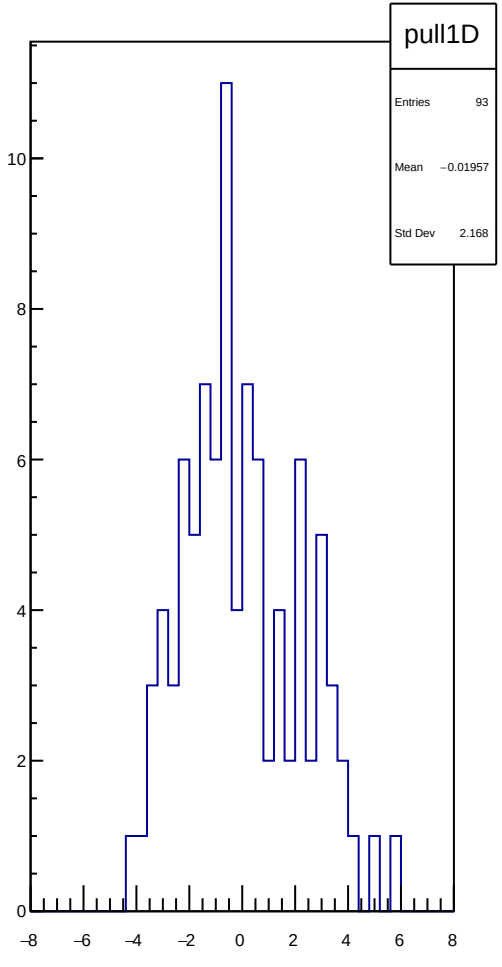

asym_bpm0i05WS_rms vs run
χ² / ndf 4.873e+04 / 92
p0 267.5 ± 0.2002
800
700
600
500
400
300
200

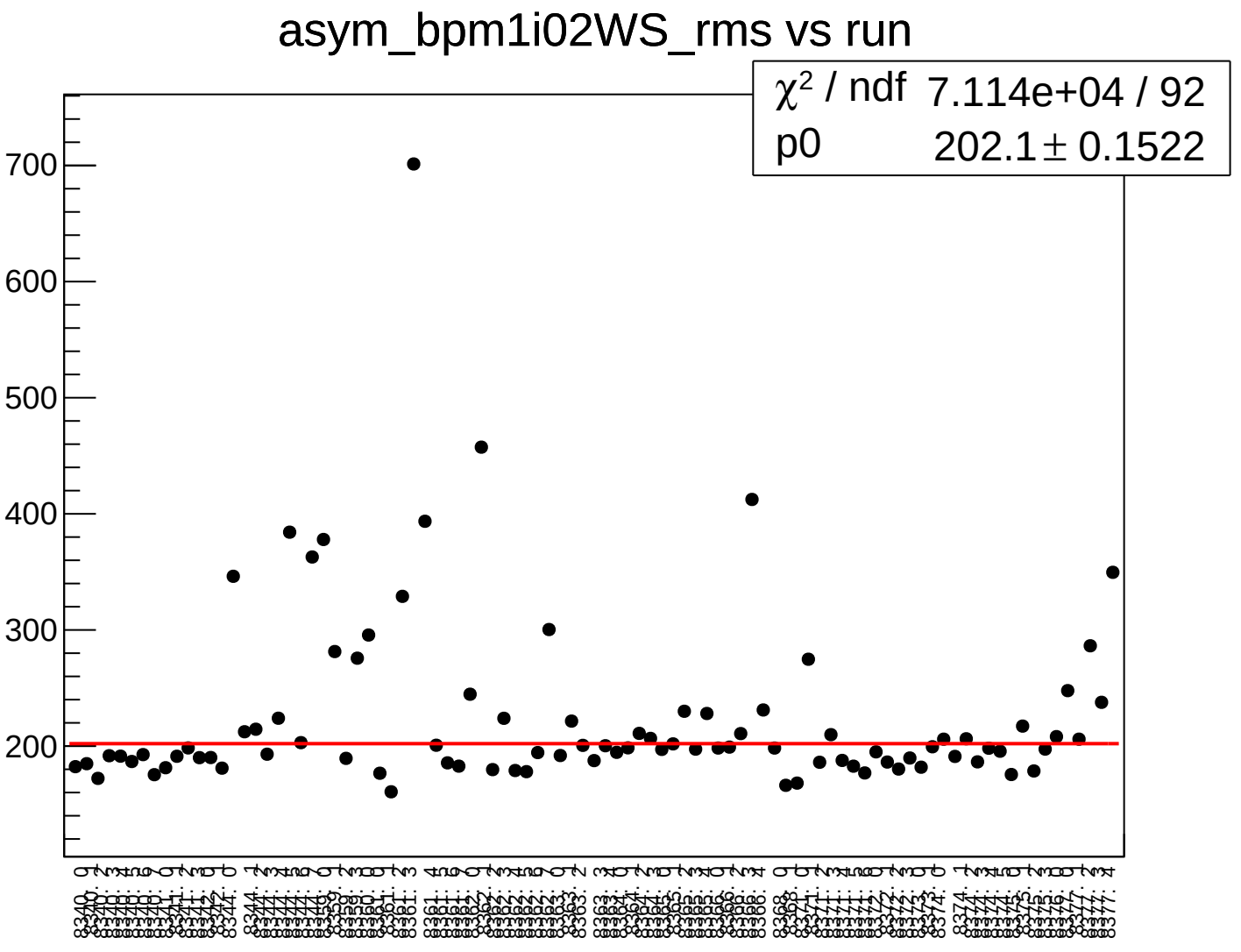

asym_bpm0i07WS_mean vs run
χ² / ndf 745.8 / 92
p0 −1.148e+04 ± 292
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −2250
Std Dev 0
8
6
4
2
0
−2
−4

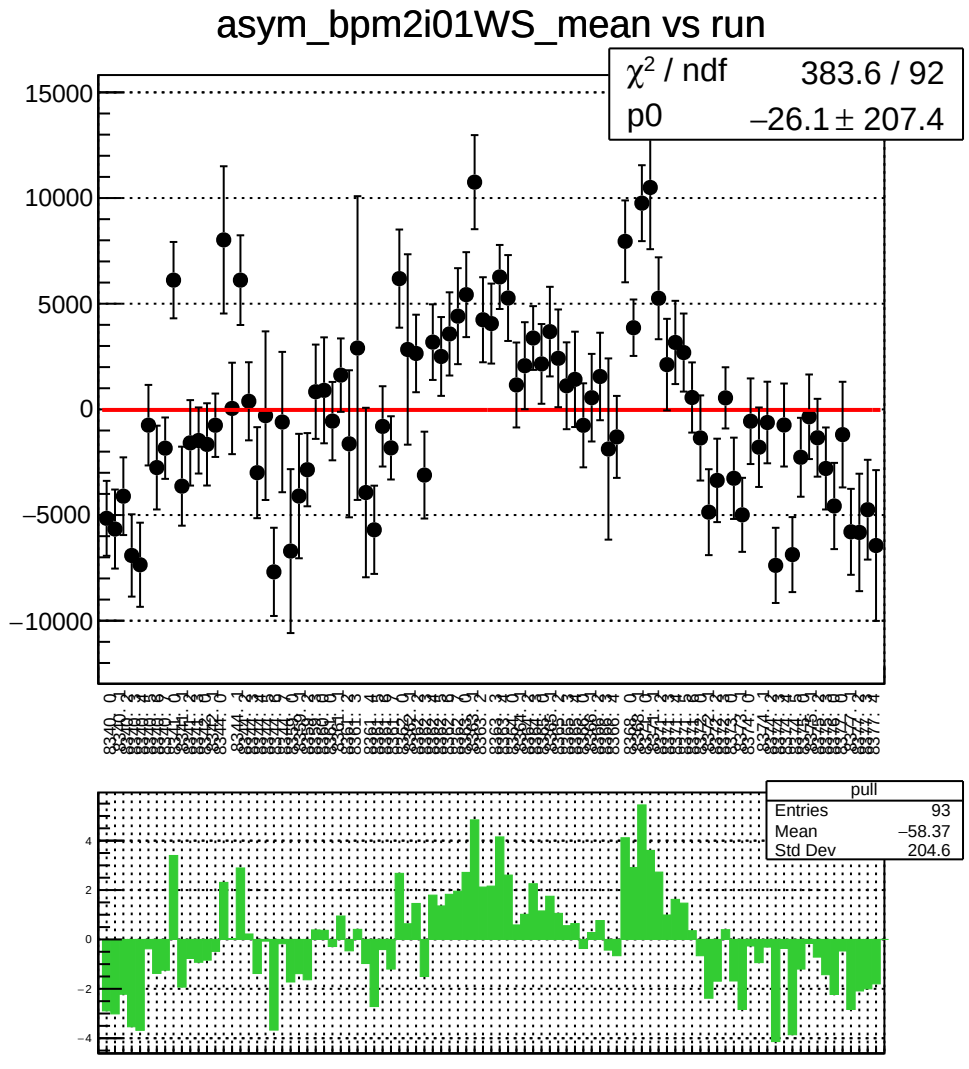

pull1D
Entries 93
Mean −0.009103
Std Dev 2.832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

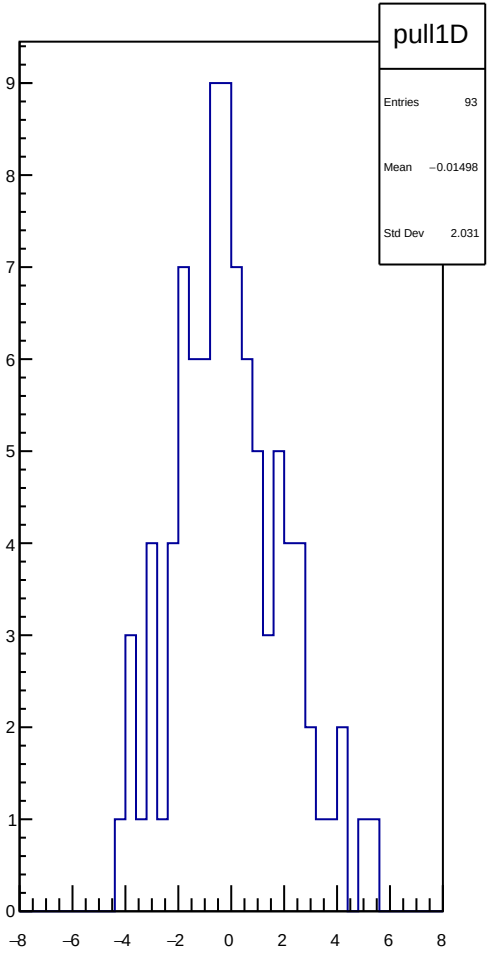

asym_bpm0i07WS_rms vs run
χ² / ndf 4.225e+04 / 92
p0 276.4 ± 0.2065
800
700
600
500
400
300
200

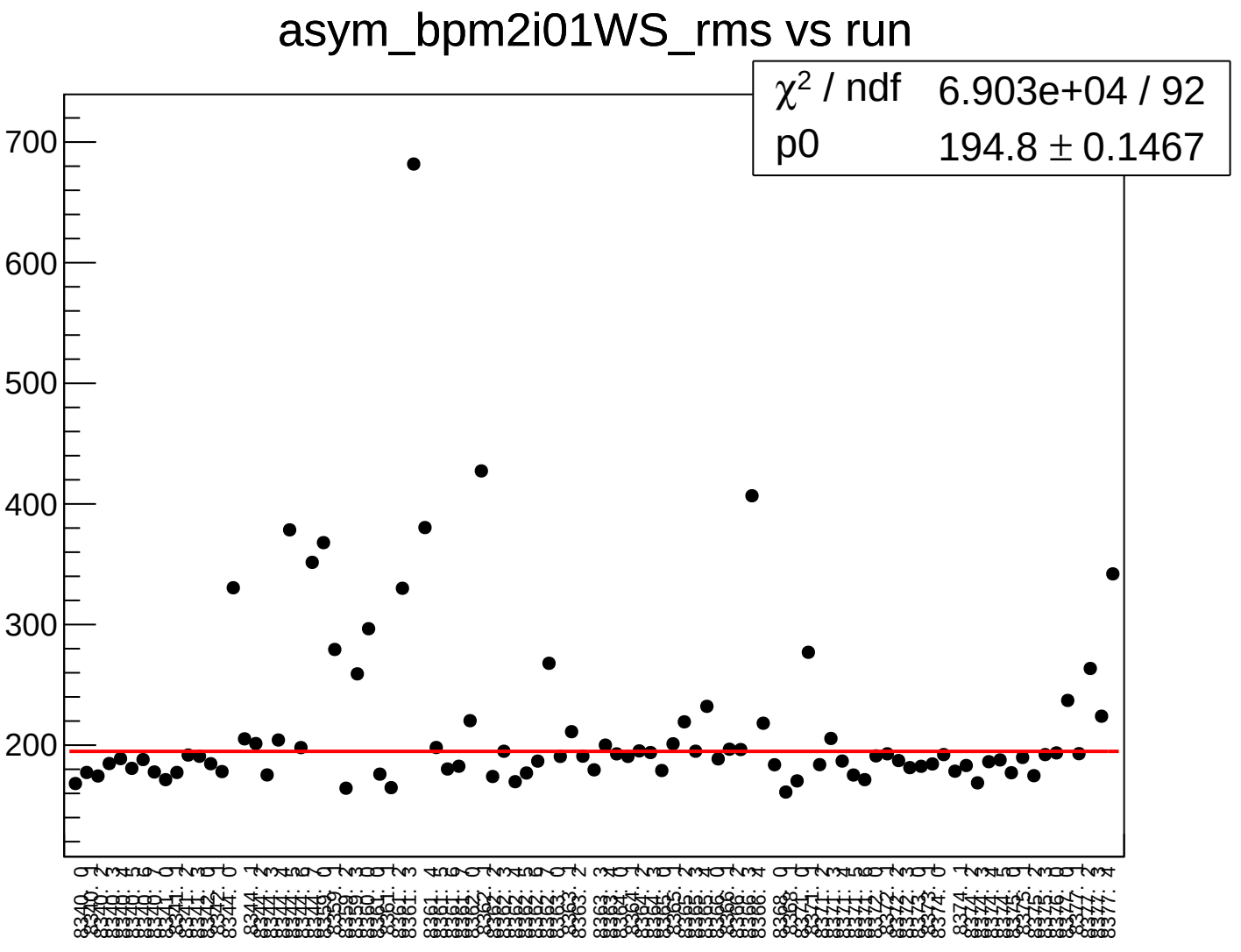

asym_bpm1i02WS_mean vs run
χ² / ndf 437 / 92
p0 302.1 ± 215.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −78.97
Std Dev 162.2
6
4
2
0
−2
−4

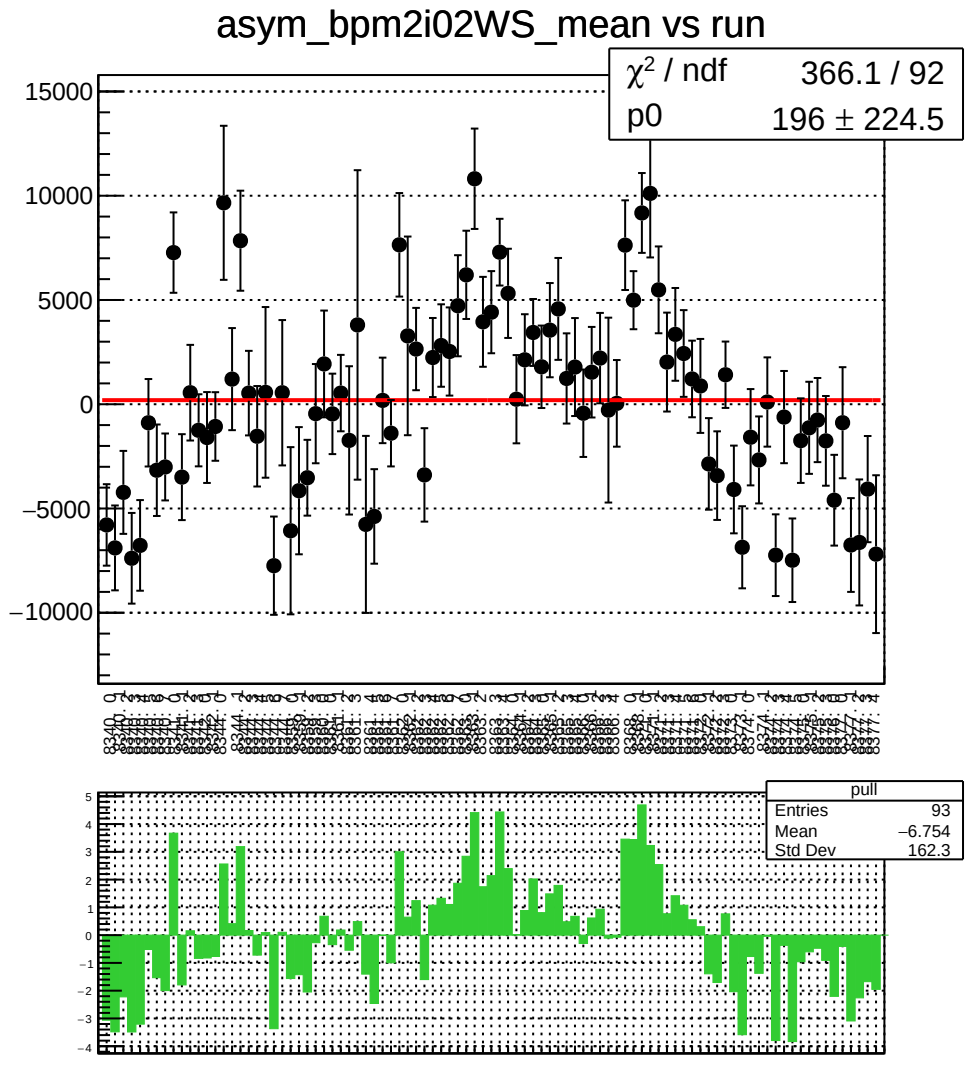

pull1D
Entries 93
Mean −0.01957
Std Dev 2.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

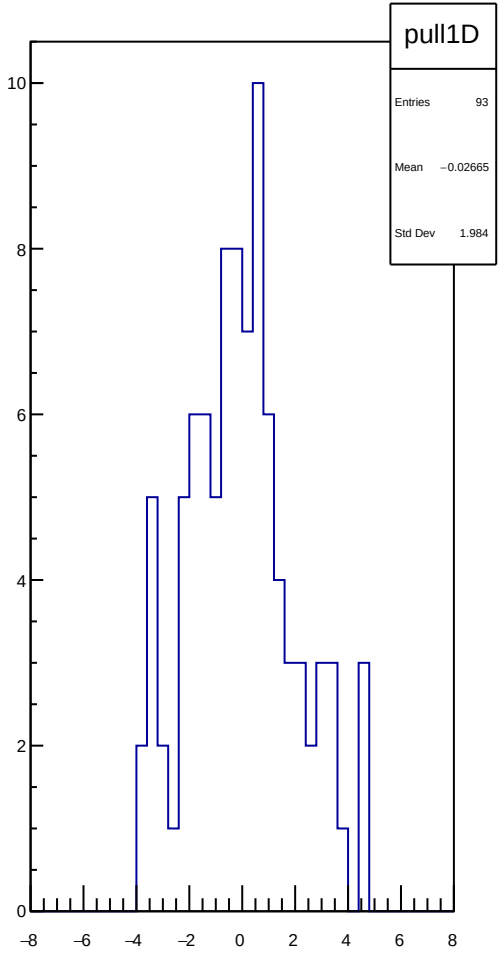

asym_bpm1i02WS_rms vs run
χ² / ndf 7.114e+04 / 92
p0 202.1 ± 0.1522
700
600
500
400
300
200

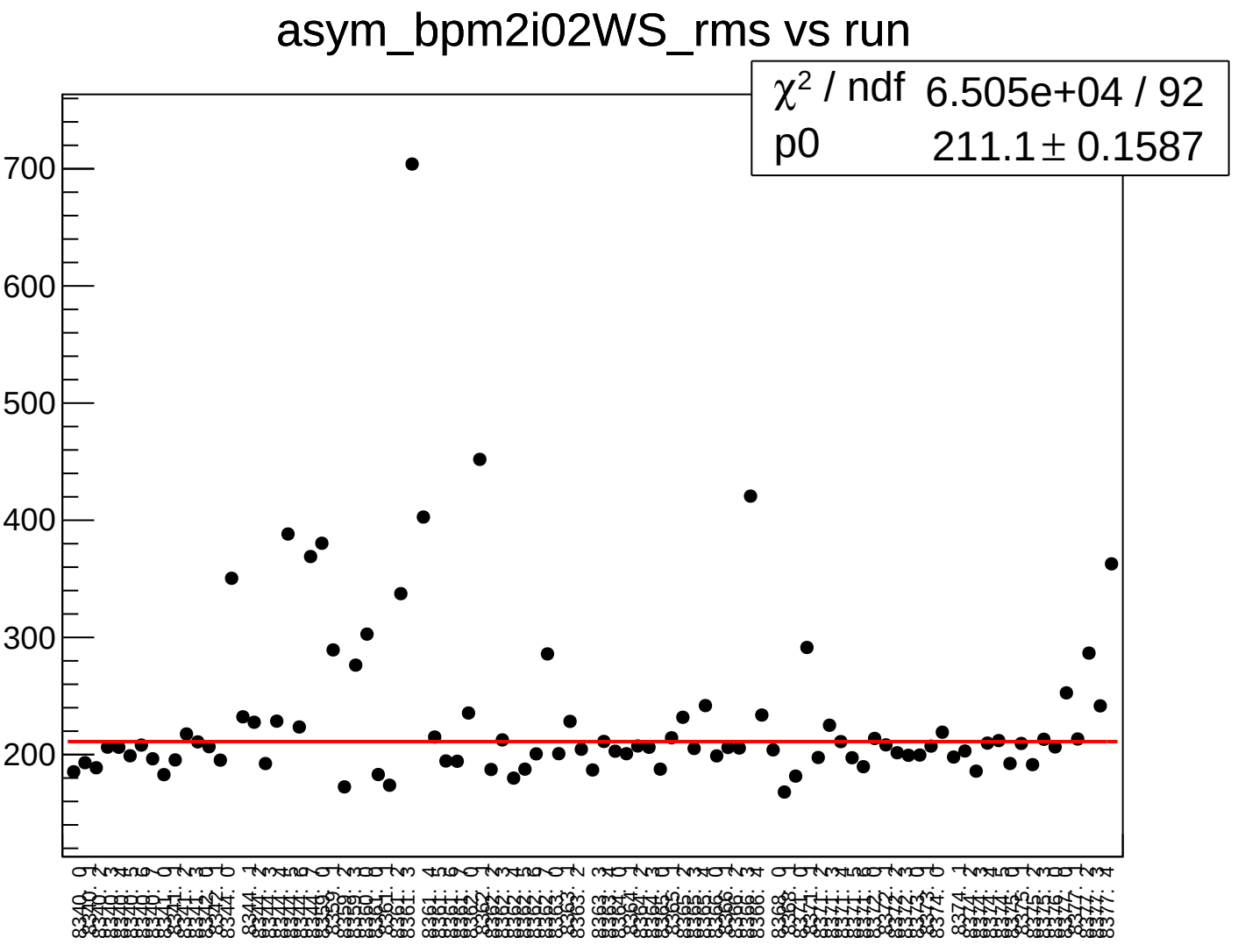

asym_bpm2i01WS_mean vs run
χ² / ndf 383.6 / 92
p0 −26.1 ± 207.4
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −58.37
Std Dev 204.6
4
2
0
−2
−4

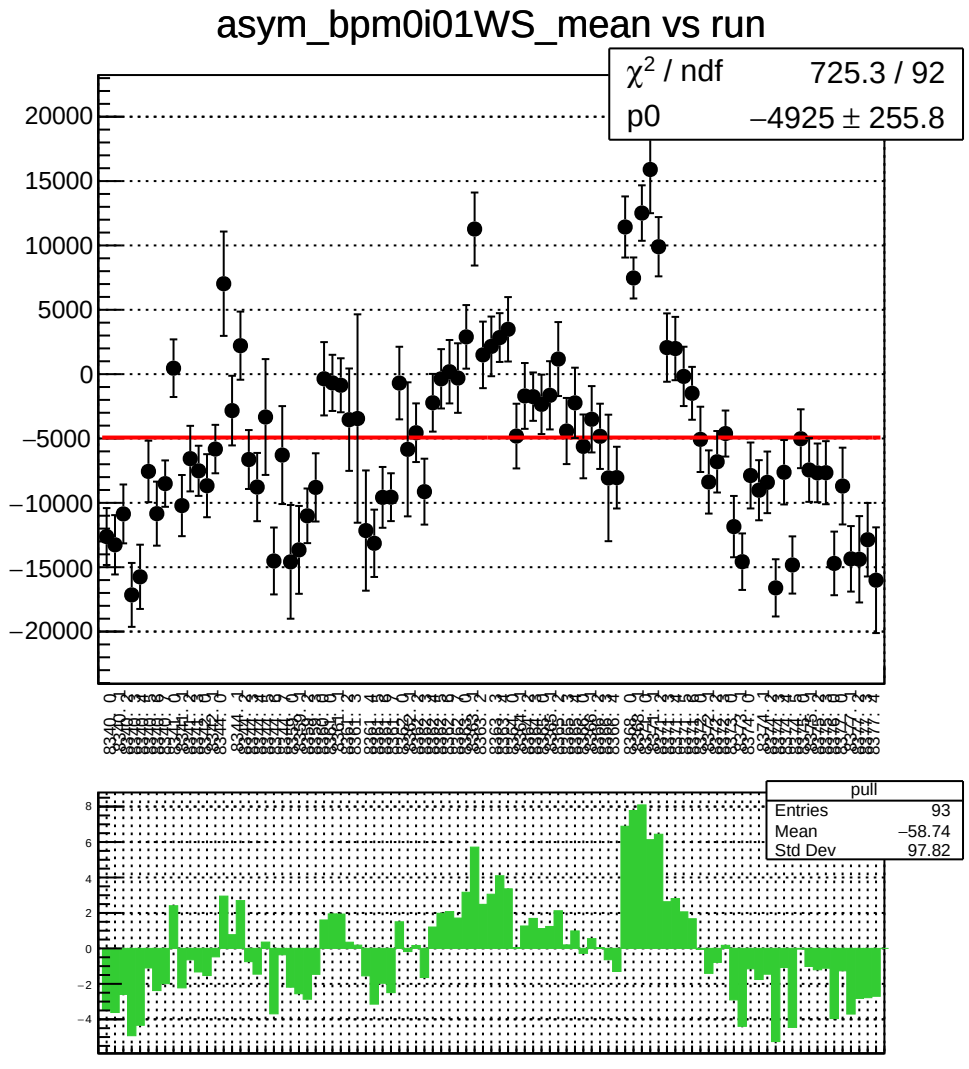

pull1D
Entries 93
Mean −0.01498
Std Dev 2.031
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

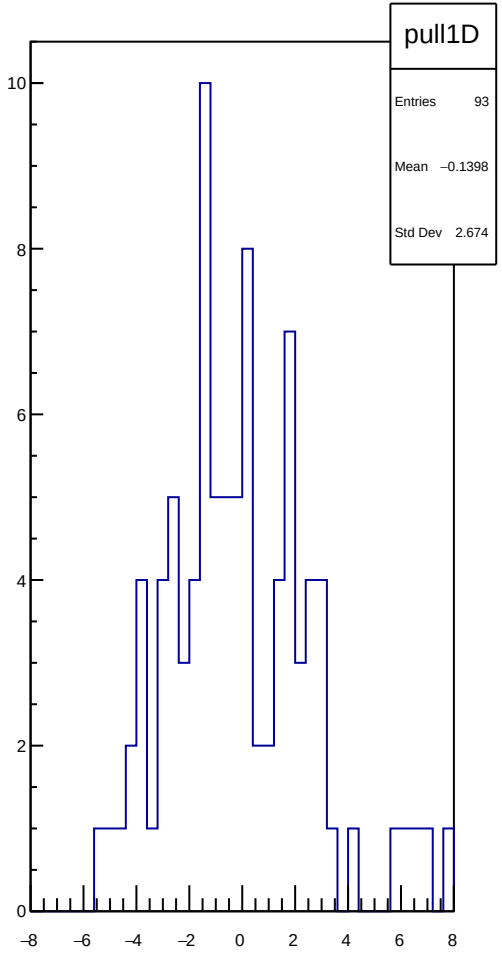

asym_bpm2i01WS_rms vs run
χ² / ndf 6.903e+04 / 92
p0 194.8 ± 0.1467
700
600
500
400
300
200

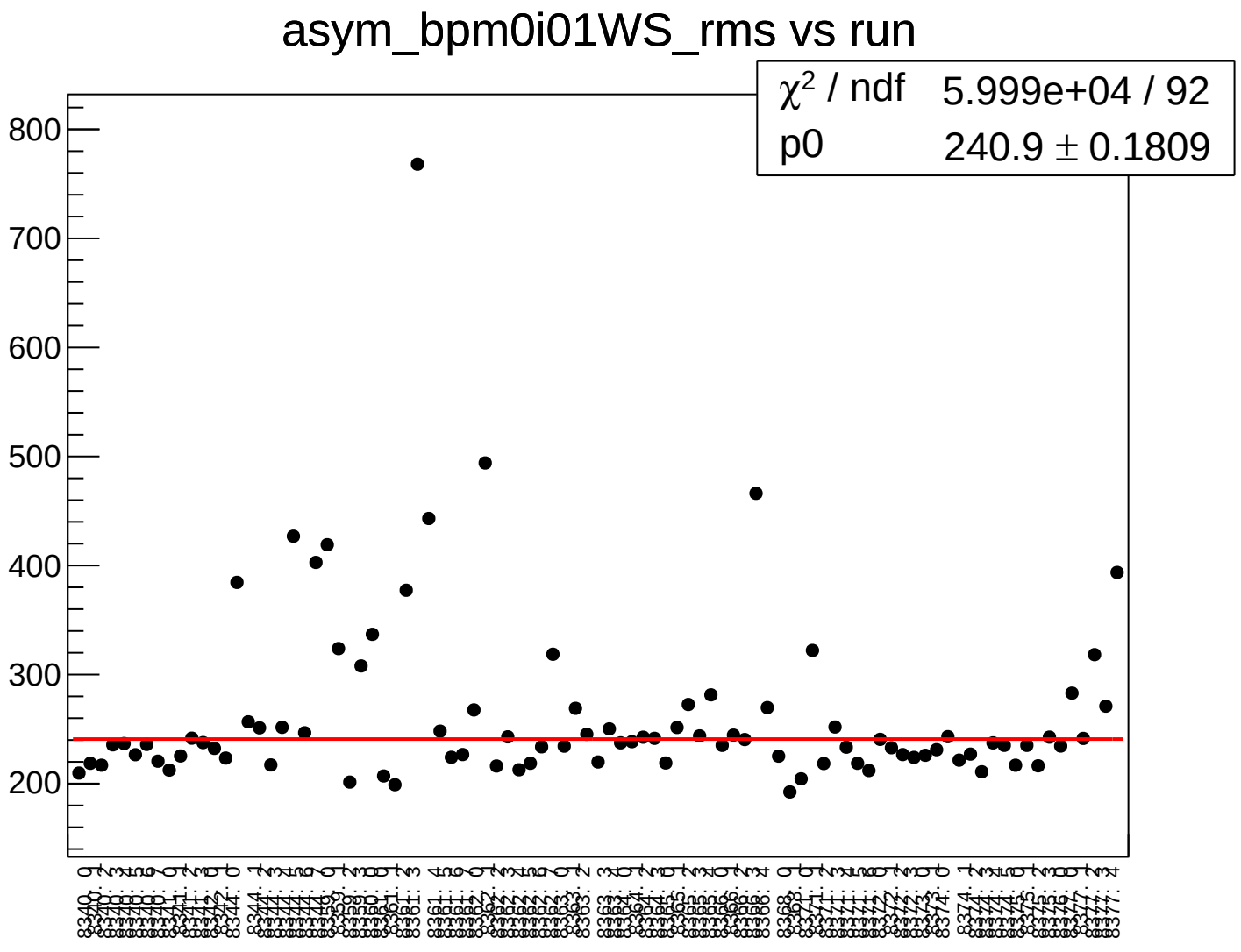

asym_bpm2i02WS_mean vs run
χ² / ndf 366.1 / 92
p0 196 ± 224.5
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −6.754
Std Dev 162.3
5
4
3
2
1
0
−1
−2
−3
−4

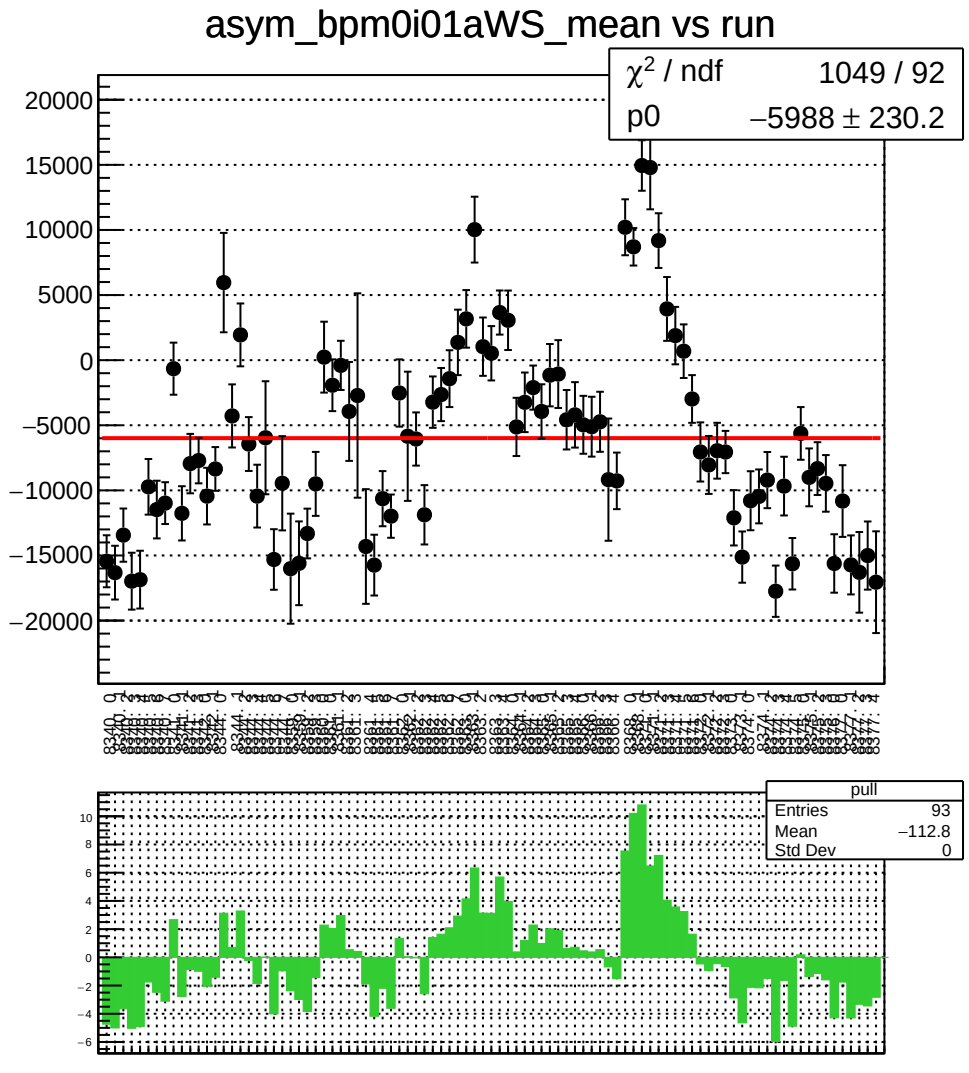

pull1D
Entries 93
Mean −0.02665
Std Dev 1.984
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

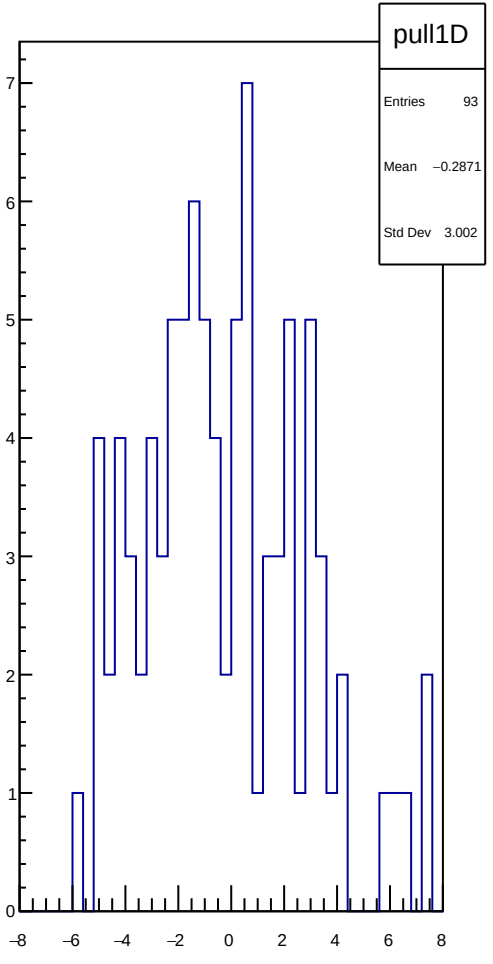

asym_bpm2i02WS_rms vs run
χ² / ndf 6.505e+04 / 92
p0 211.1 ± 0.1587
700
600
500
400
300
200

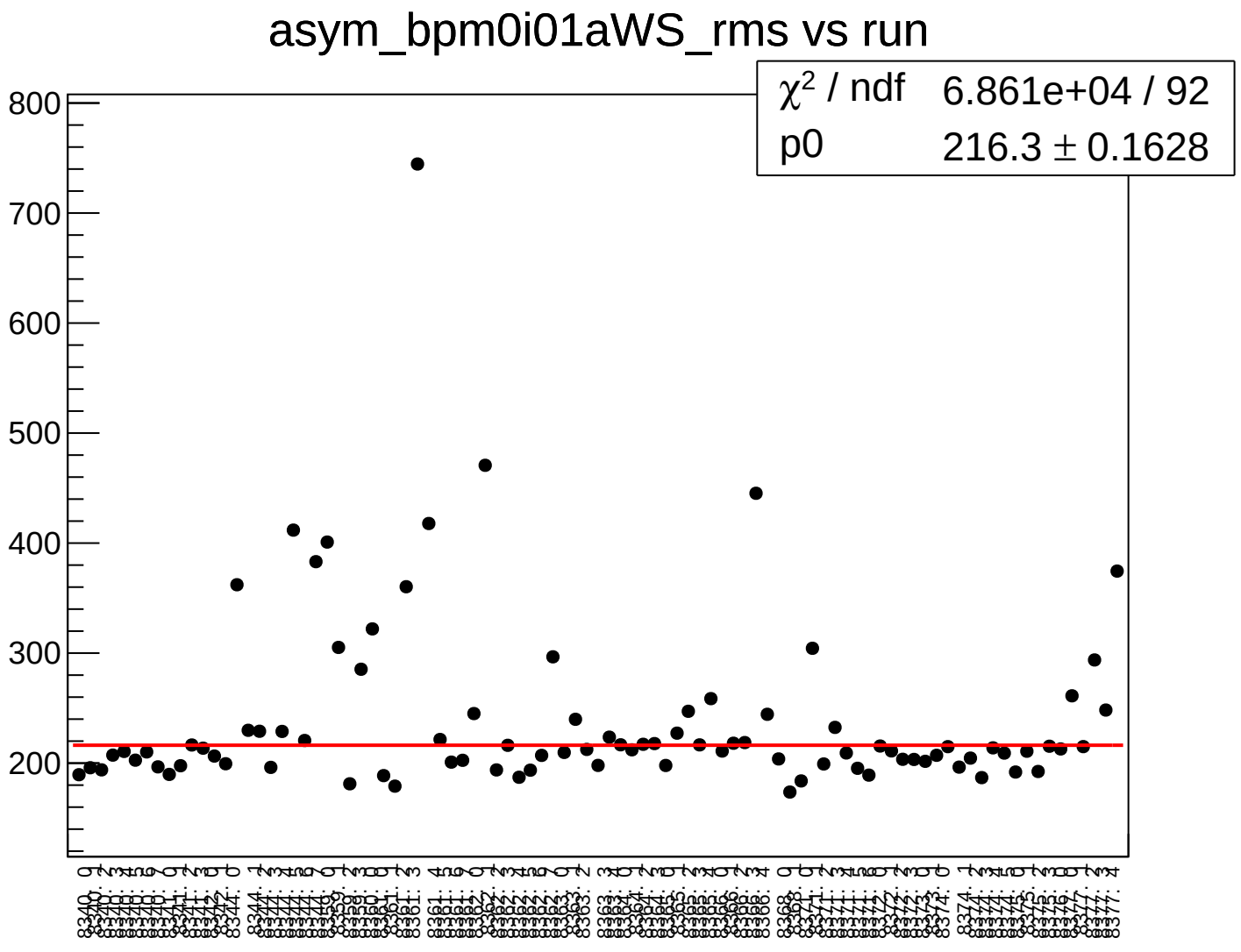

asym_bpm0i01WS_mean vs run
χ² / ndf 725.3 / 92
p0 −4925 ± 255.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −58.74
Std Dev 97.82
8
6
4
2
0
−2
−4

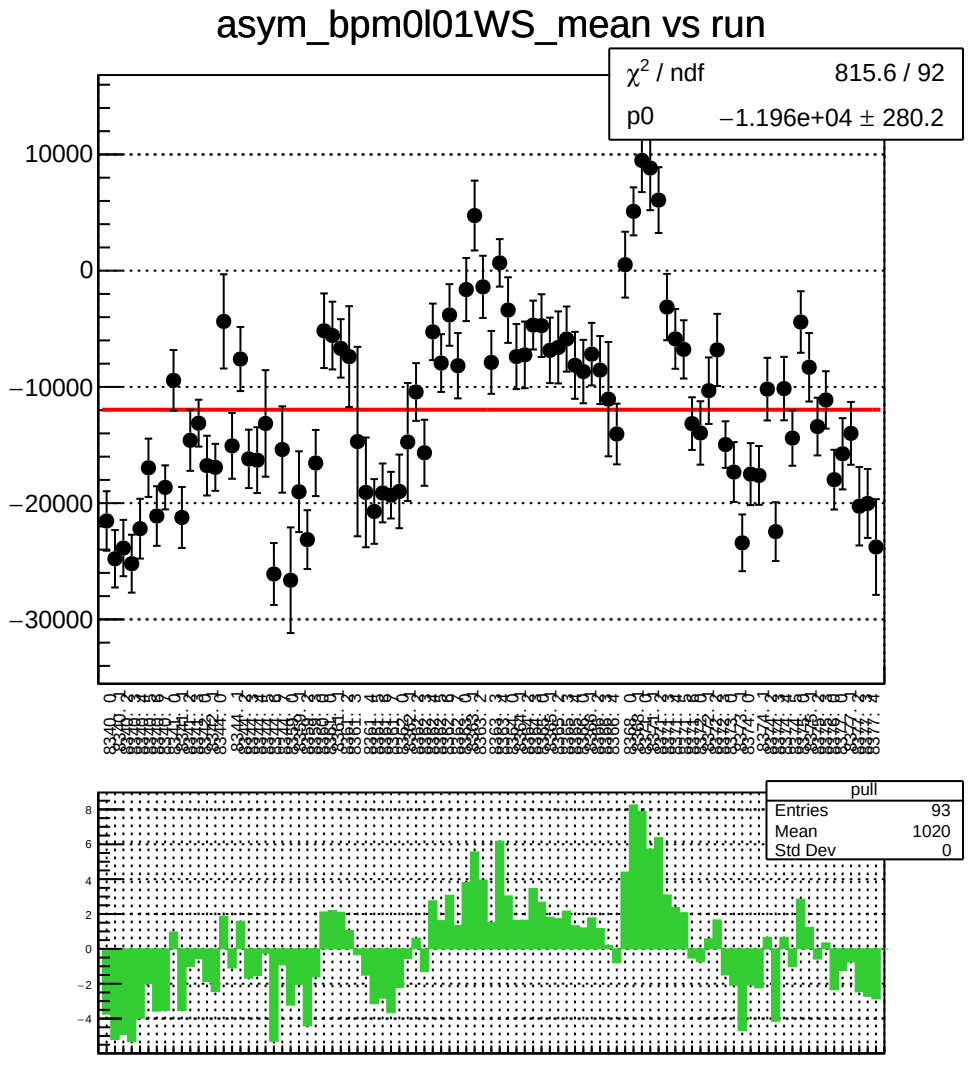

pull1D
Entries 93
Mean −0.1398
Std Dev 2.674
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

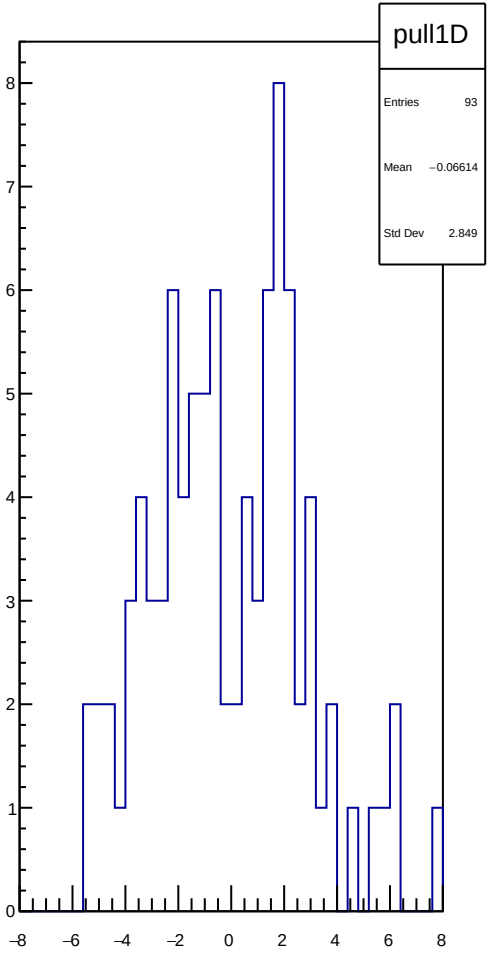

asym_bpm0i01WS_rms vs run
χ² / ndf 5.999e+04 / 92
p0 240.9 ± 0.1809
800
700
600
500
400
300
200

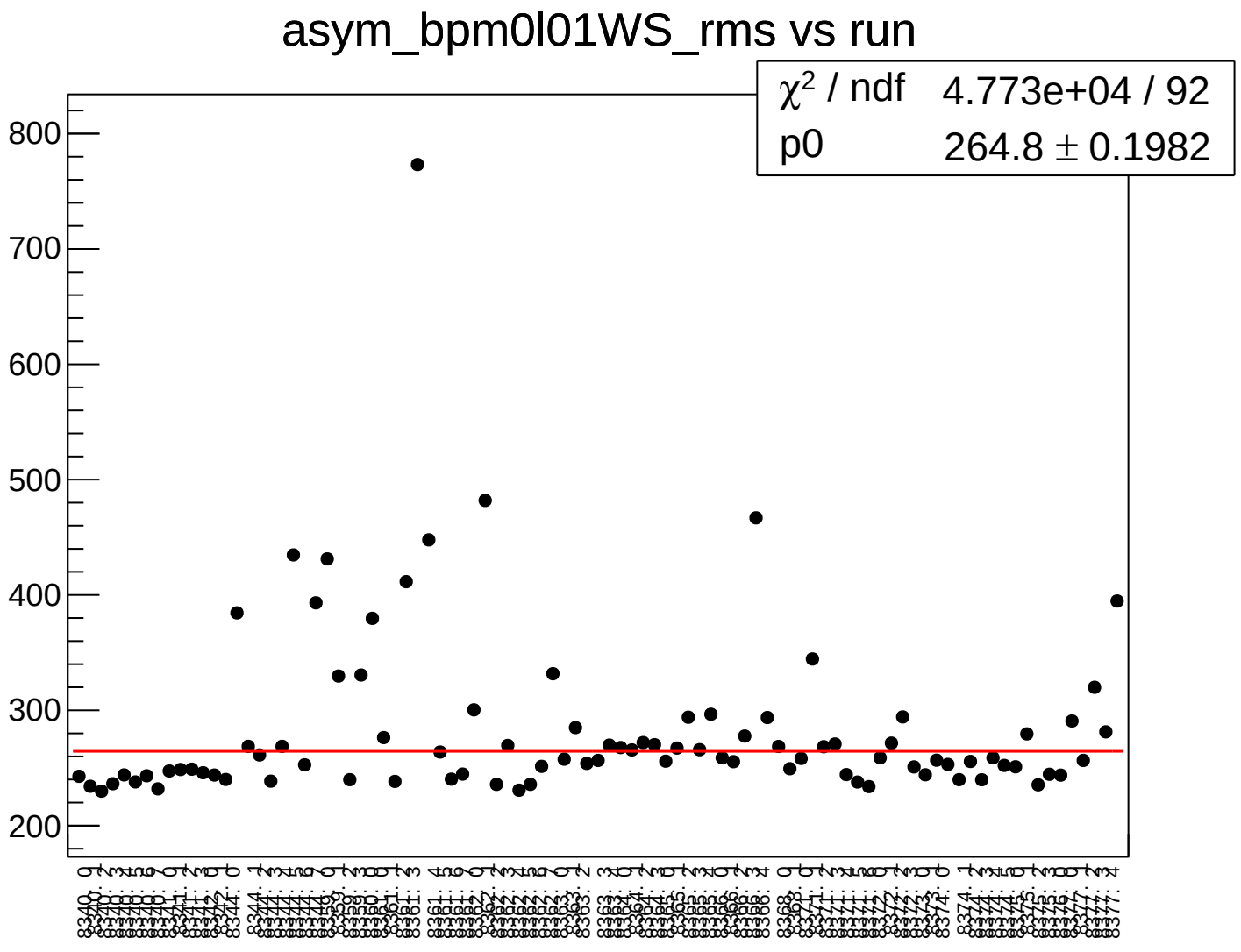

asym_bpm0i01aWS_mean vs run
χ² / ndf 1049 / 92
p0 −5988 ± 230.2
pull
Entries 93
Mean −112.8
Std Dev 0

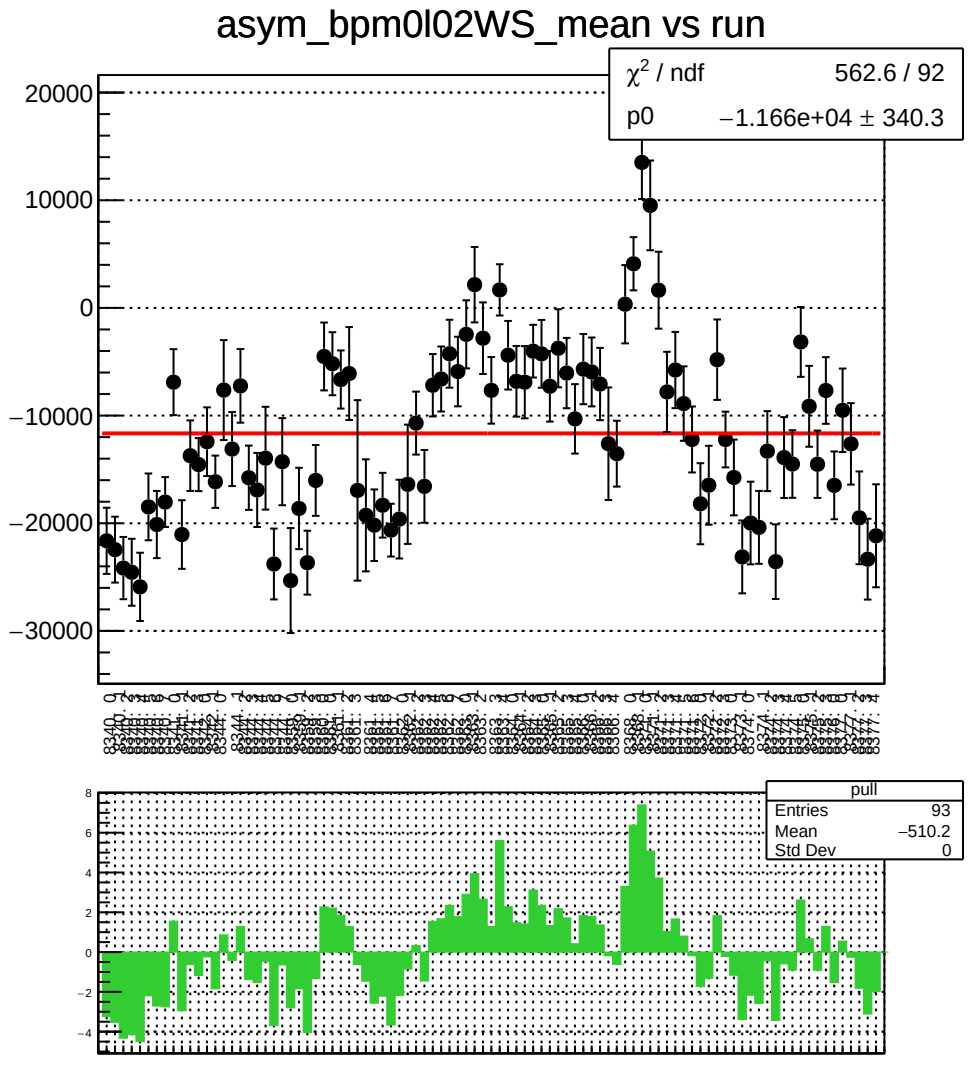

pull1D
Entries 93
Mean −0.2871
Std Dev 3.002

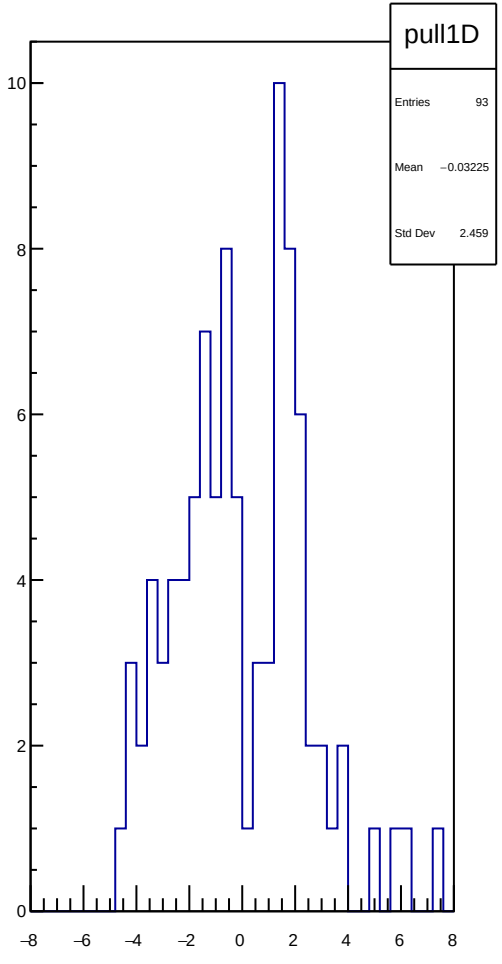

asym_bpm0i01aWS_rms vs run
χ² / ndf 6.861e+04 / 92
p0 216.3 ± 0.1628
800
700
600
500
400
300
200

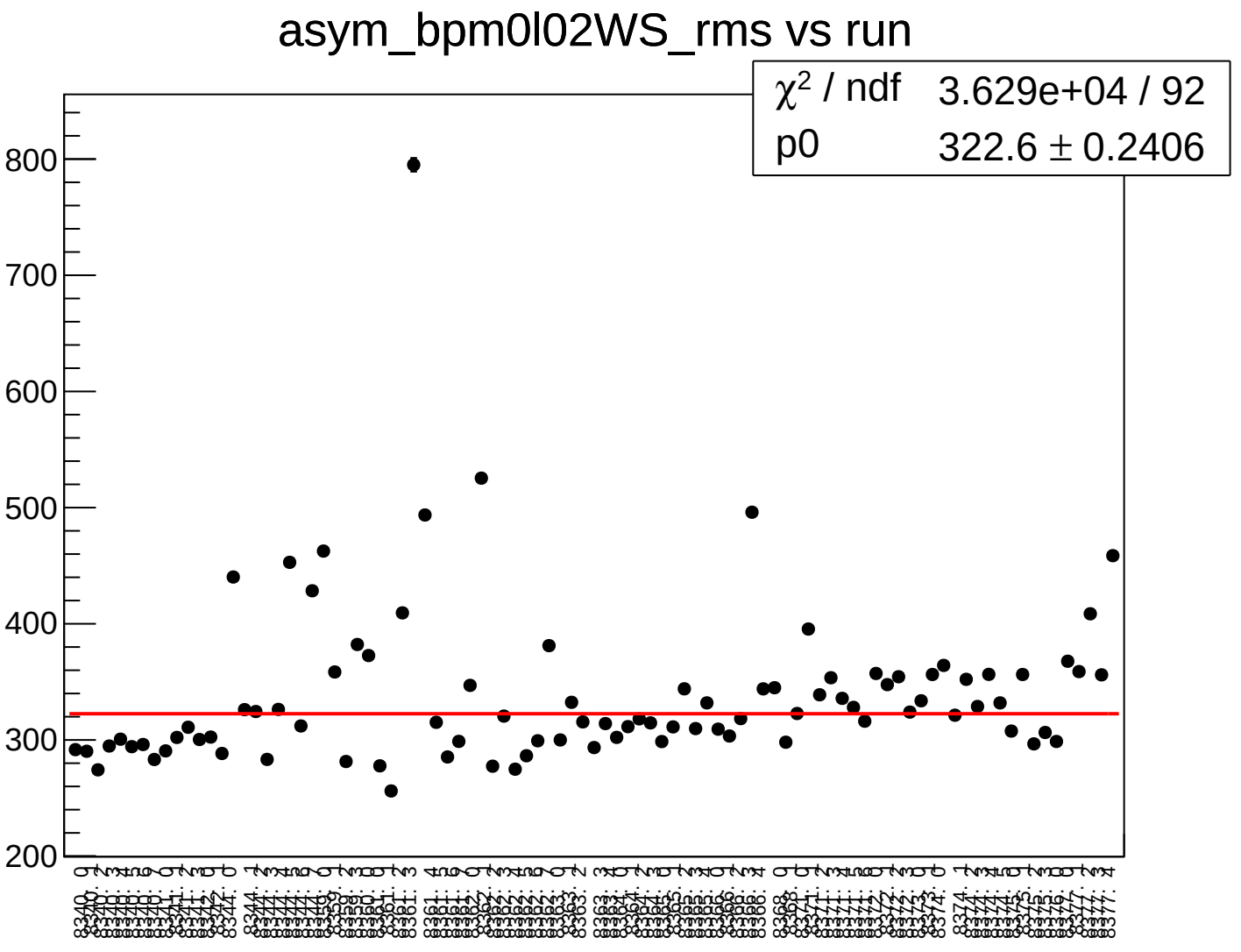

asym_bpm0l01WS_mean vs run
χ² / ndf 815.6 / 92
p0 −1.196e+04 ± 280.2
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 1020
Std Dev 0
8
6
4
2
0
−2
−4

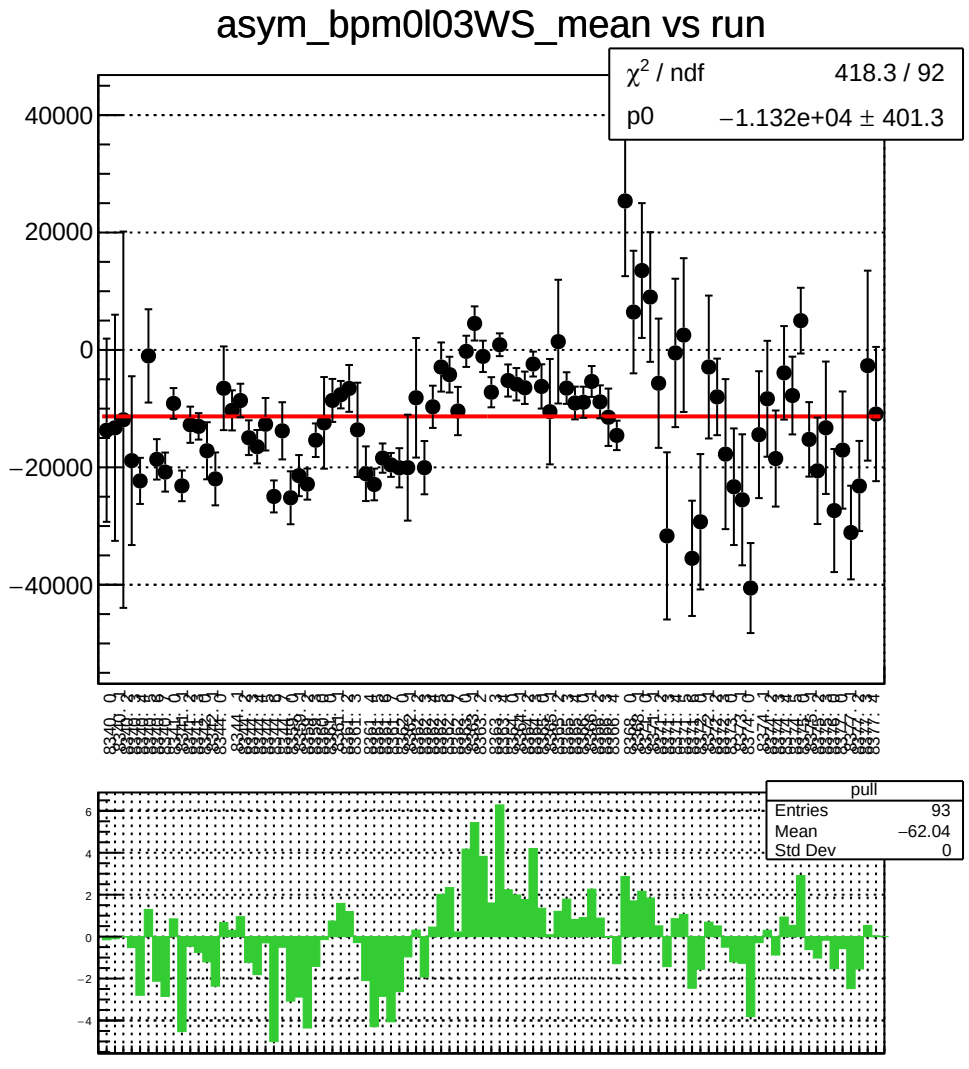

pull1D
Entries 93
Mean −0.06614
Std Dev 2.849
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

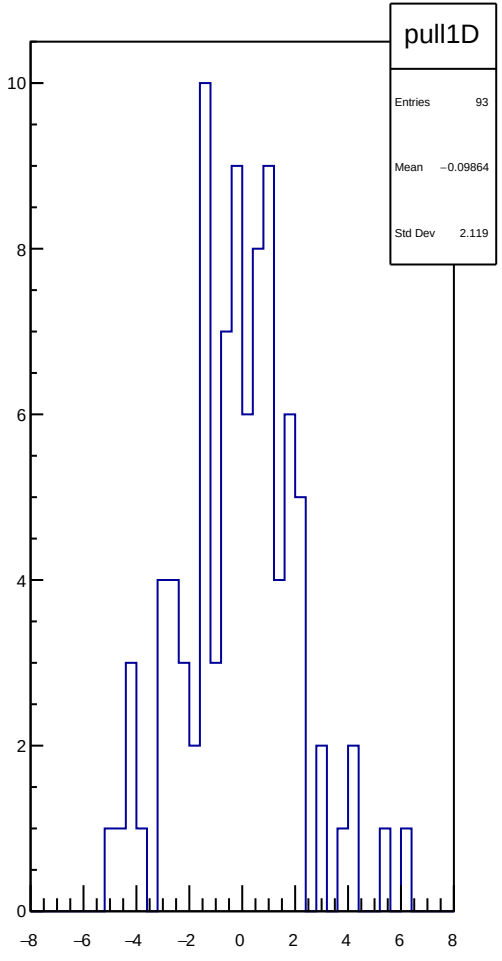

asym_bpm0l01WS_rms vs run
χ² / ndf 4.773e+04 / 92
p0 264.8 ± 0.1982
800
700
600
500
400
300
200

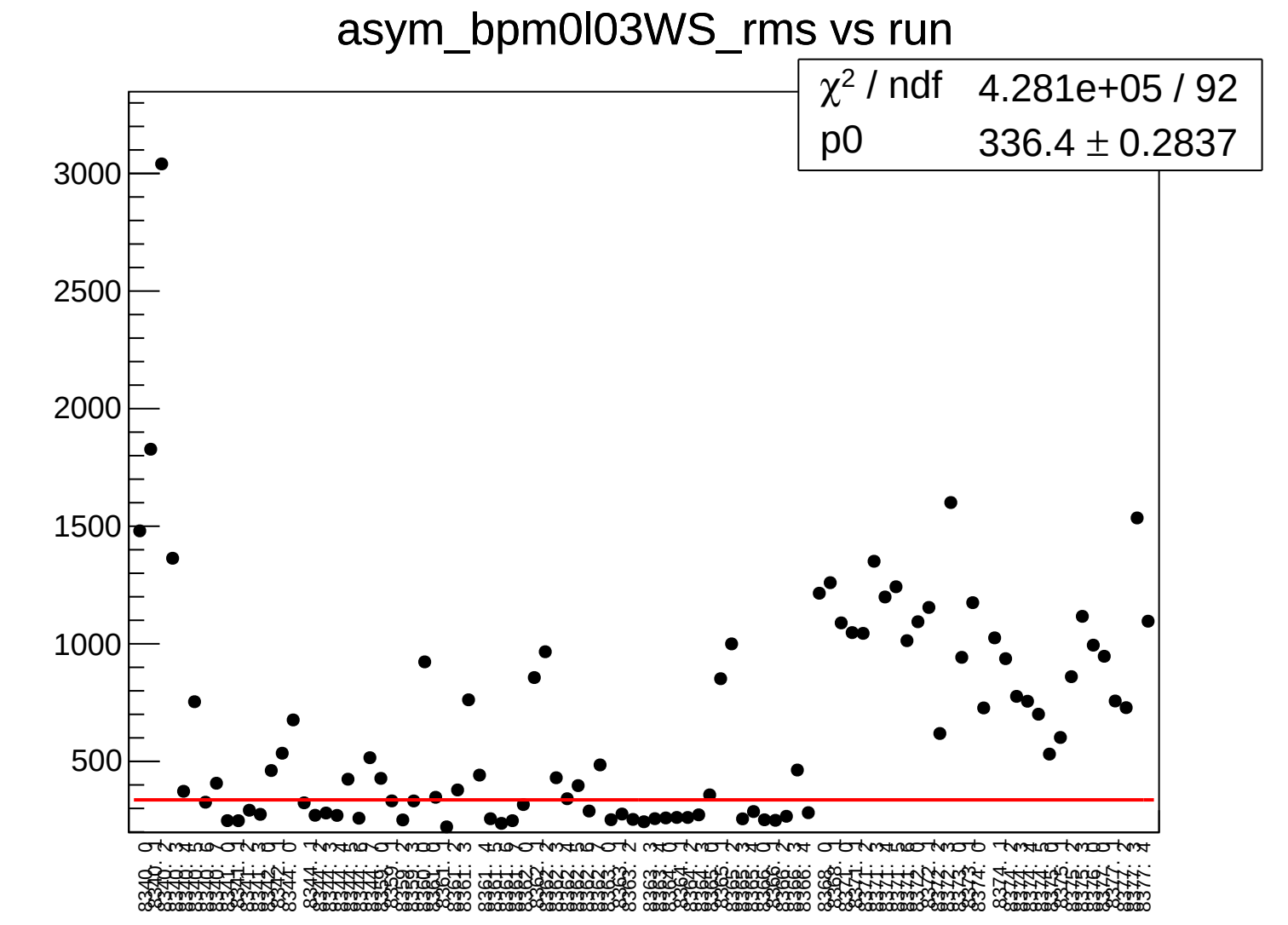

asym_bpm0l02WS_mean vs run
χ² / ndf 562.6 / 92
p0 −1.166e+04 ± 340.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −510.2
Std Dev 0
8
6
4
2
0
−2
−4

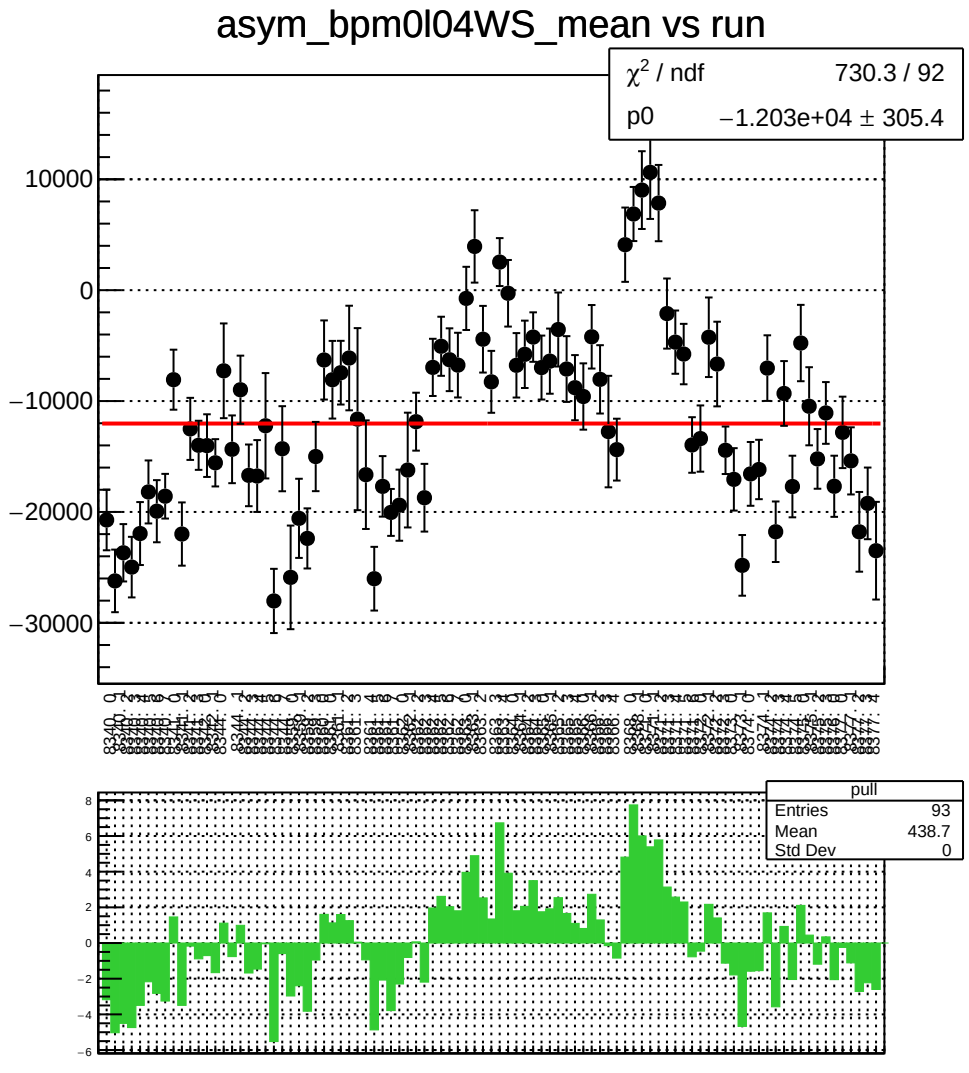

pull1D
Entries 93
Mean −0.03225
Std Dev 2.459
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

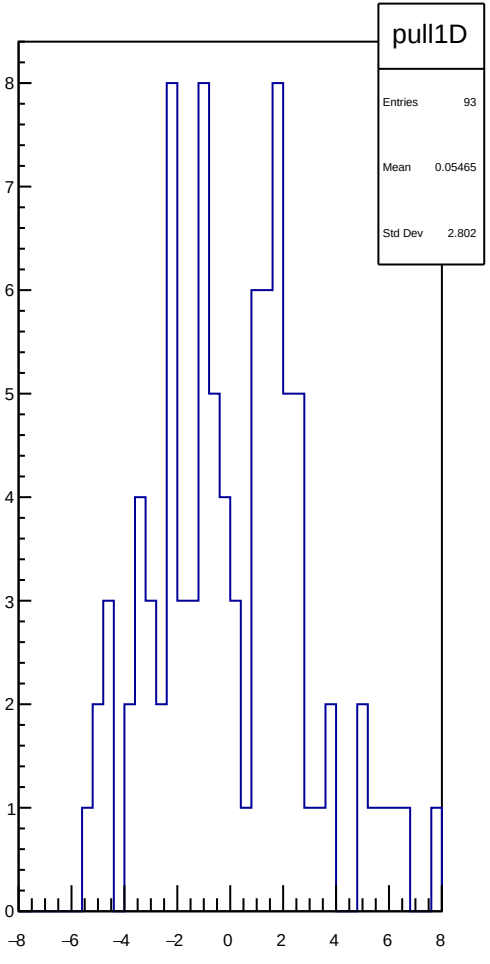

asym_bpm0l02WS_rms vs run
χ² / ndf 3.629e+04 / 92
p0 322.6 ± 0.2406
800
700
600
500
400
300
200

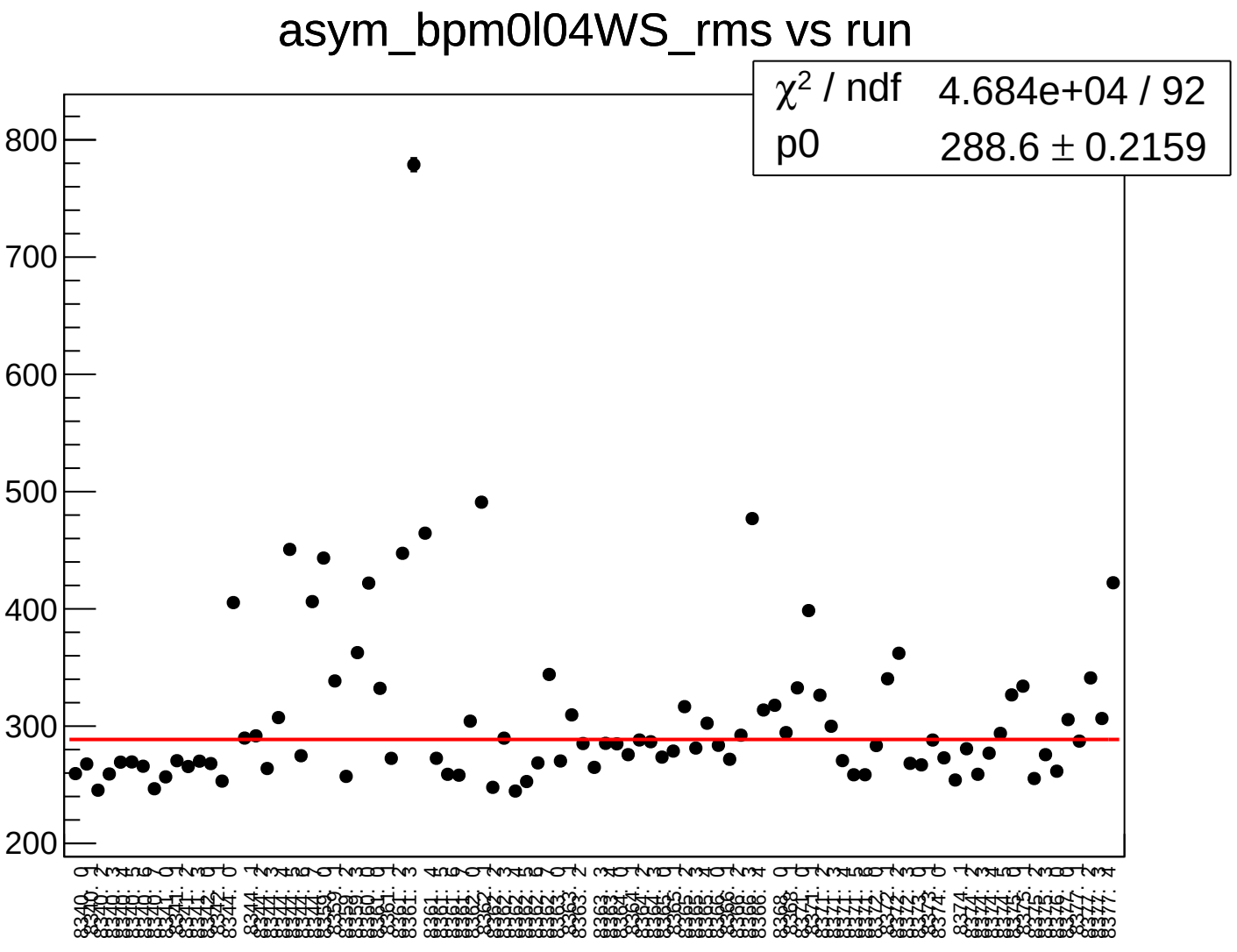

asym_bpm0l03WS_mean vs run
χ² / ndf 418.3 / 92
p0 −1.132e+04 ± 401.3
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −62.04
Std Dev 0
6
4
2
0
−2
−4

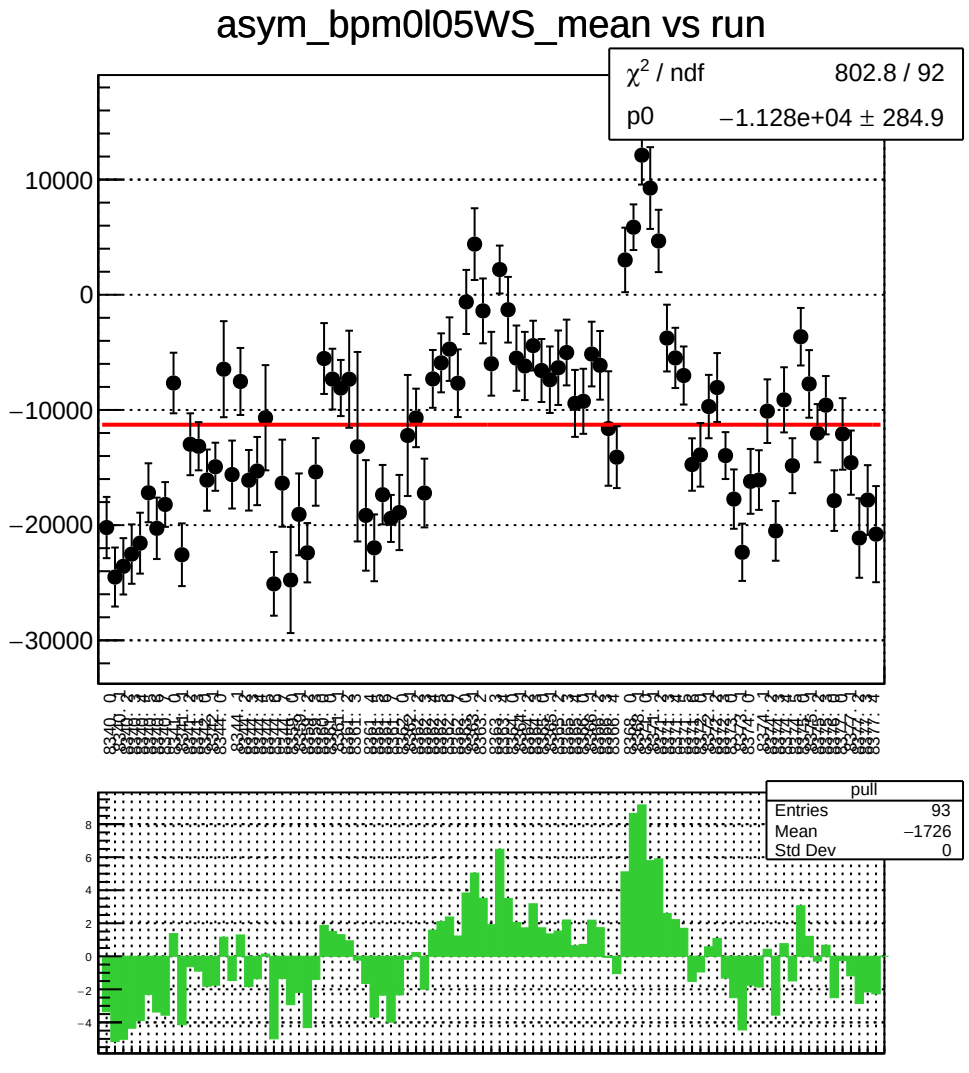

pull1D
Entries 93
Mean −0.09864
Std Dev 2.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

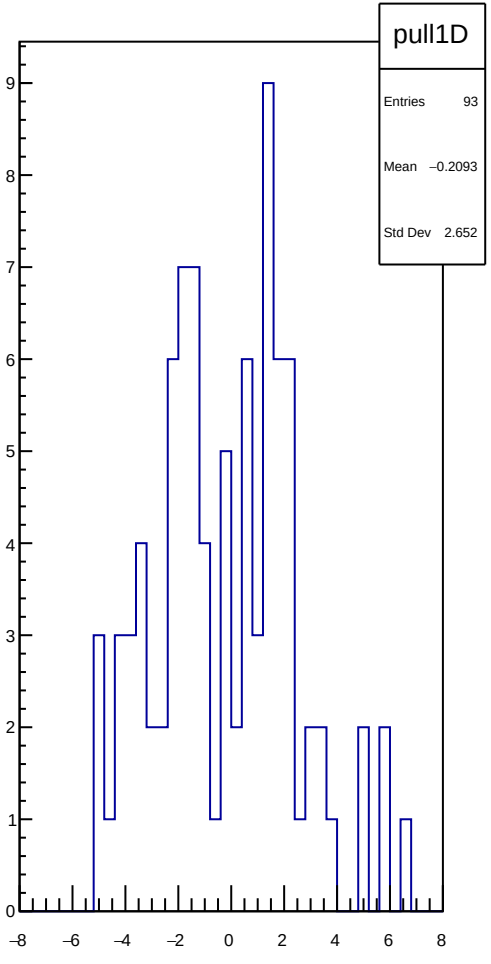

asym_bpm0l03WS_rms vs run
χ² / ndf 4.281e+05 / 92
p0 336.4 ± 0.2837
3000
2500
2000
1500
1000
500

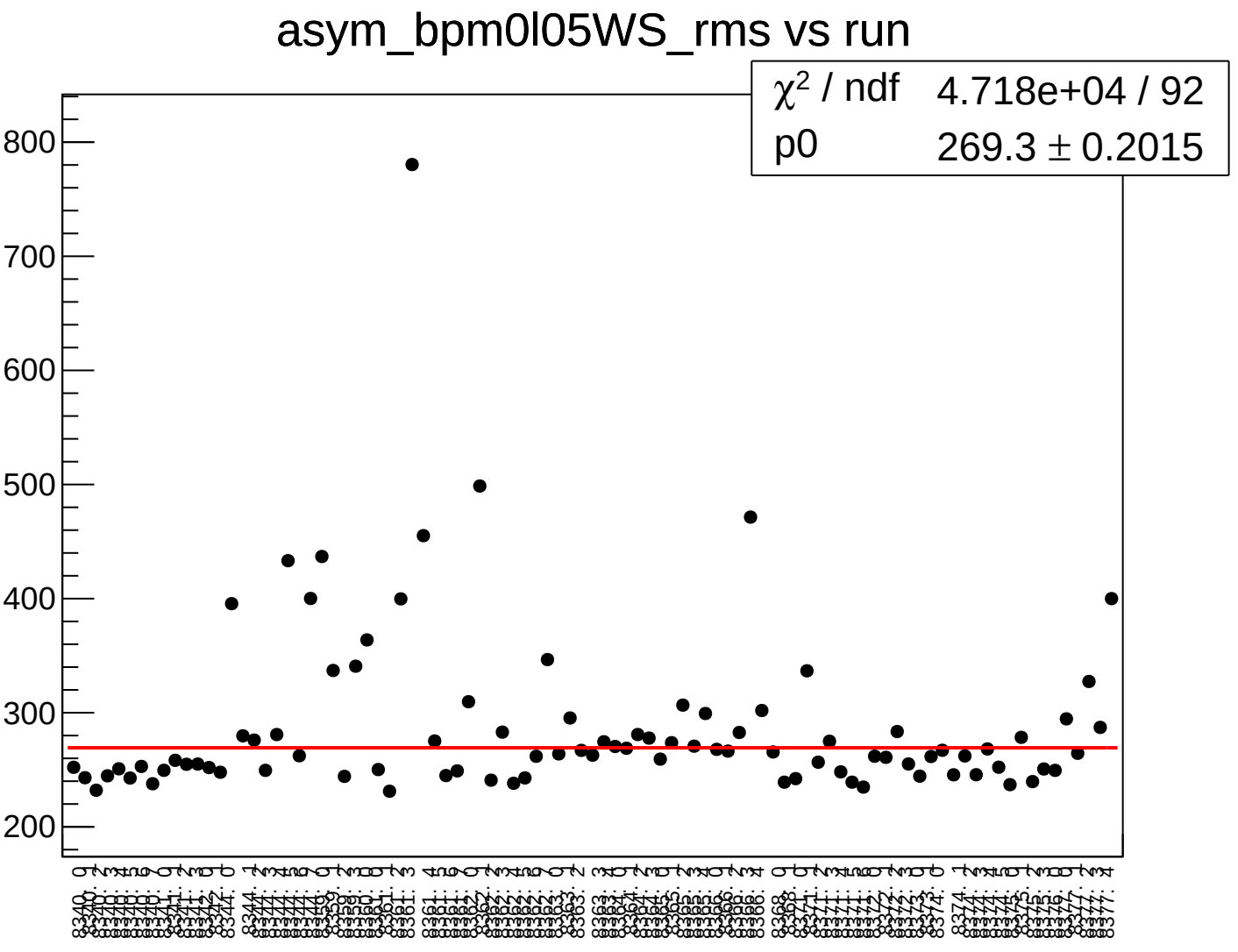

asym_bpm0l04WS_mean vs run
χ² / ndf 730.3 / 92
p0 −1.203e+04 ± 305.4
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 438.7
Std Dev 0
8
6
4
2
0
−2
−4
−6

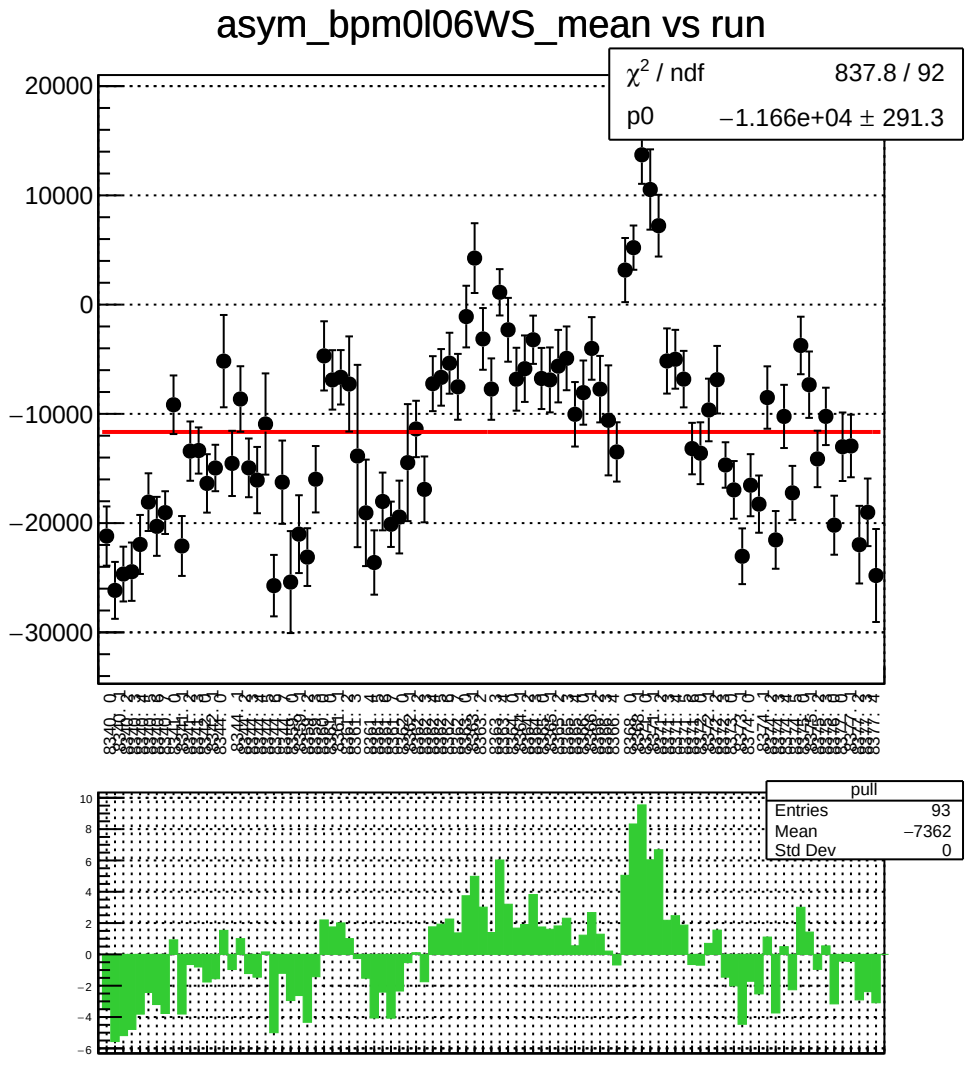

pull1D
Entries 93
Mean 0.05465
Std Dev 2.802
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

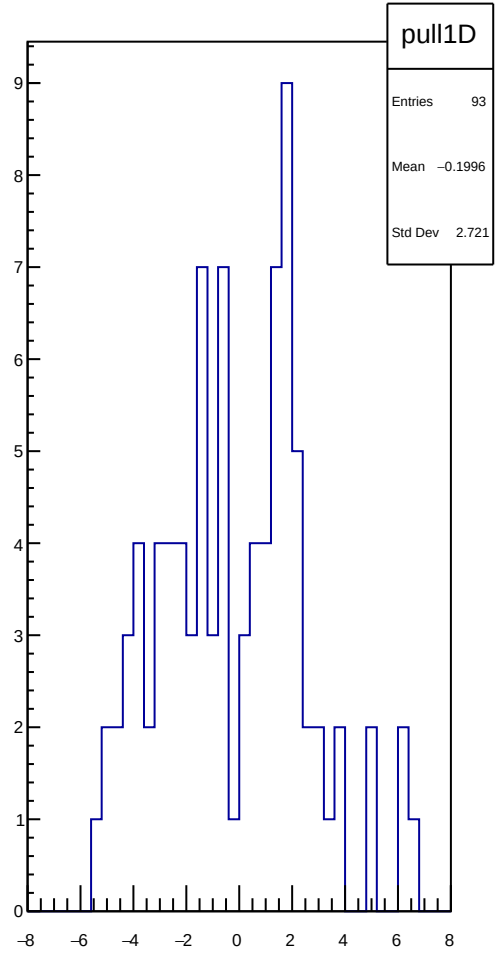

asym_bpm0l04WS_rms vs run
χ² / ndf 4.684e+04 / 92
p0 288.6 ± 0.2159
800
700
600
500
400
300
200

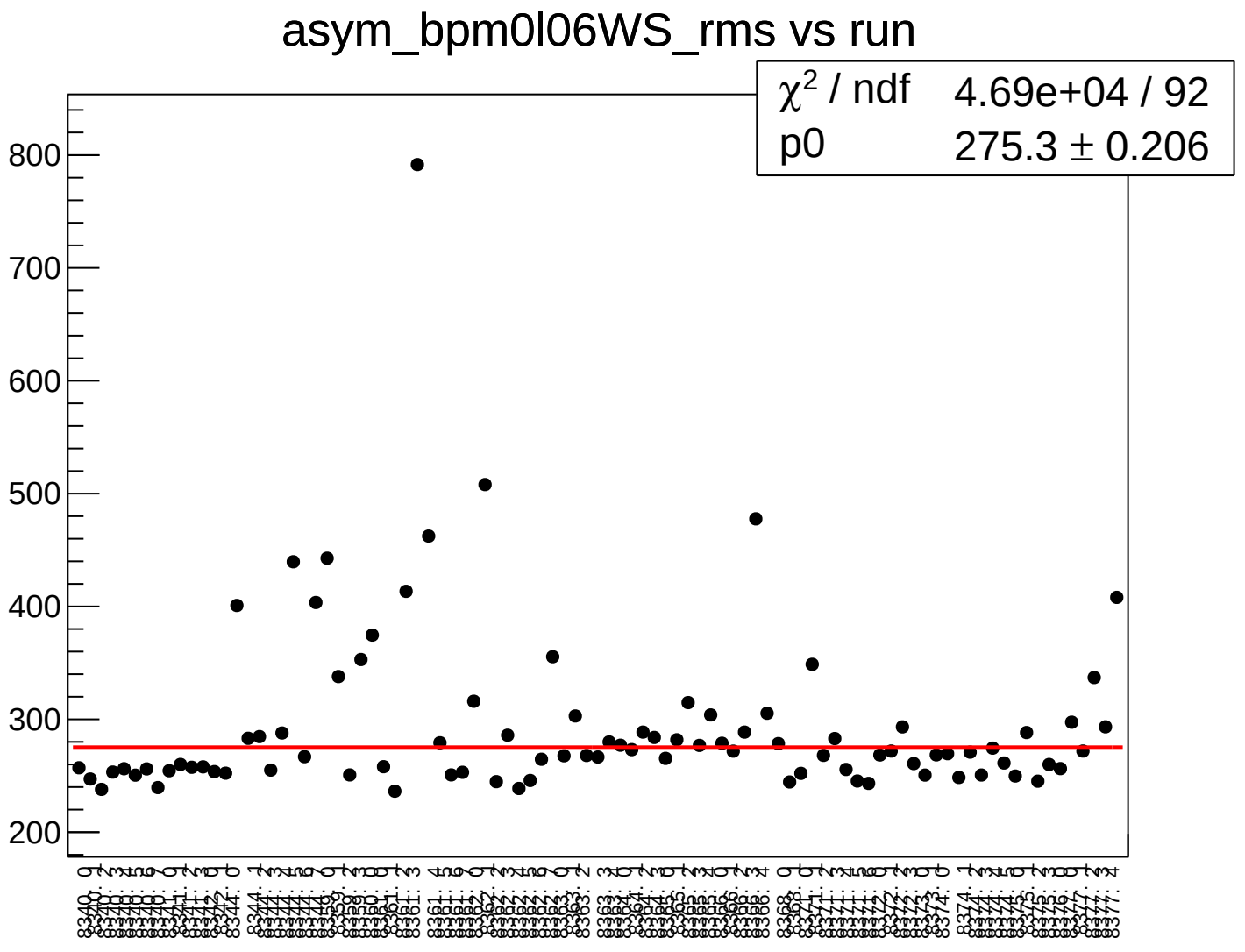

asym_bpm0l05WS_mean vs run
χ² / ndf 802.8 / 92
p0 −1.128e+04 ± 284.9
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −1726
Std Dev 0
8
6
4
2
0
−2
−4

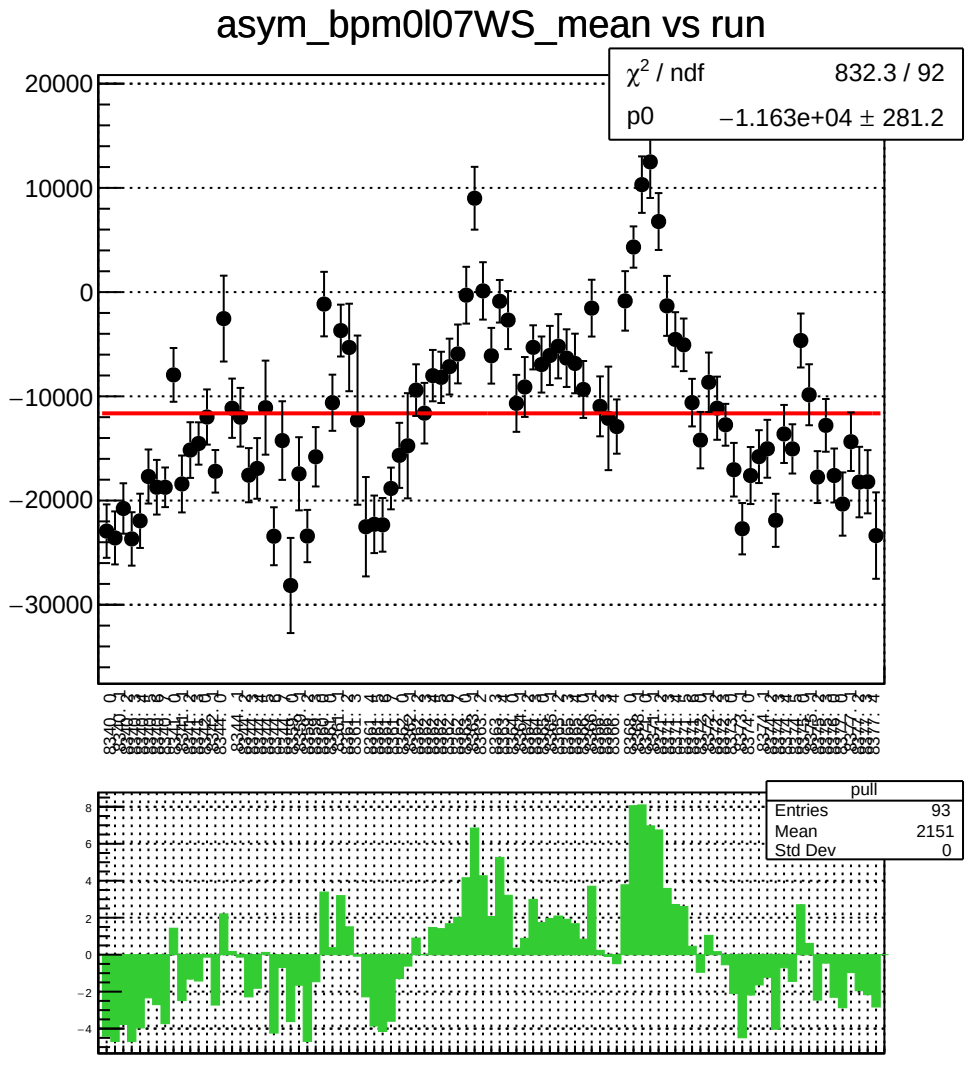

pull1D
Entries 93
Mean −0.2093
Std Dev 2.652
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

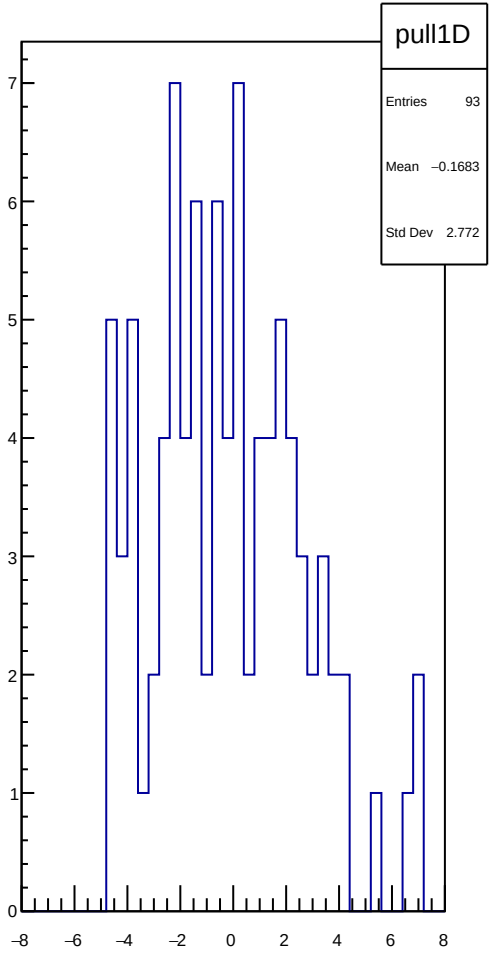

asym_bpm0l05WS_rms vs run
χ² / ndf 4.718e+04 / 92
p0 269.3 ± 0.2015
800
700
600
500
400
300
200

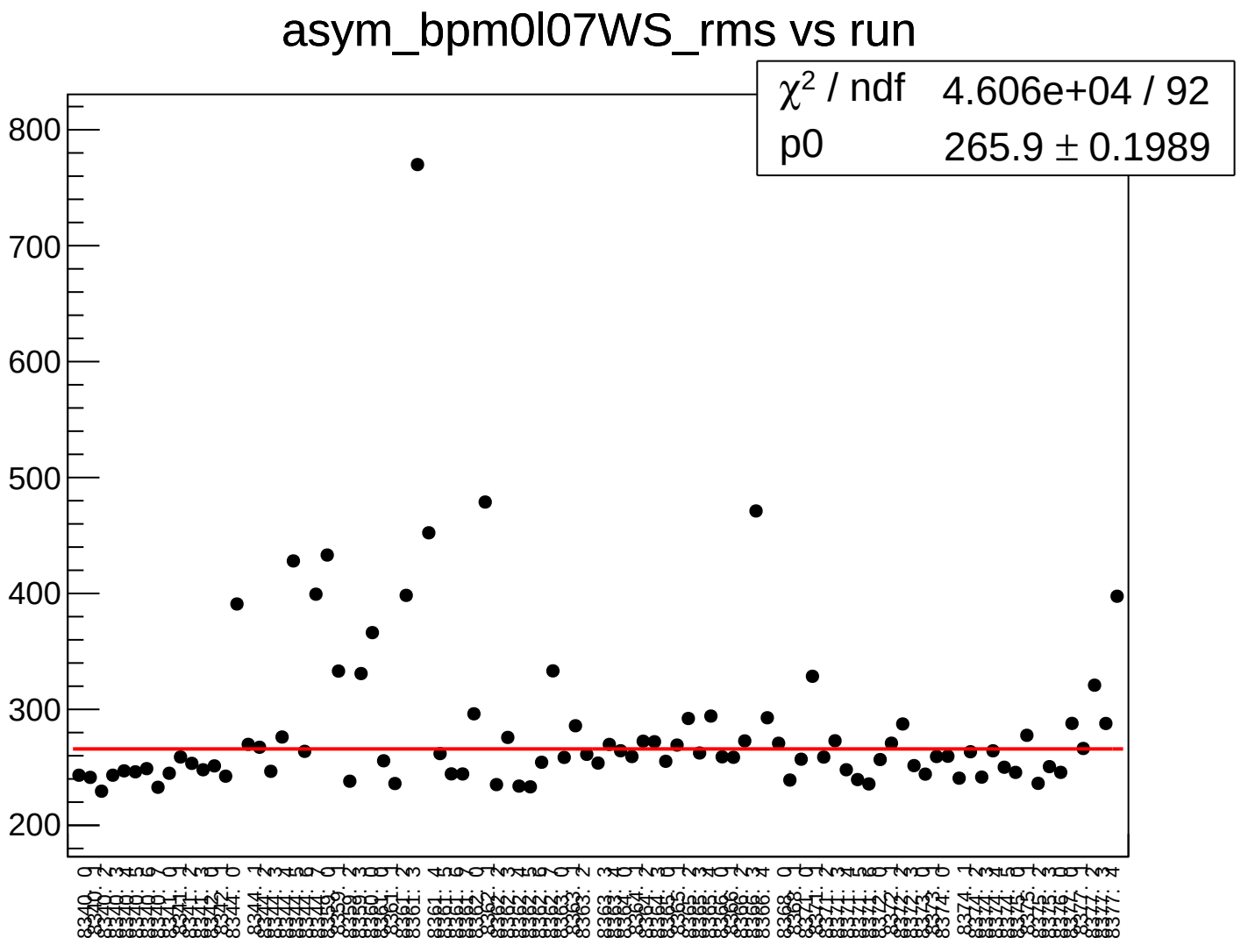

asym_bpm0l06WS_mean vs run
χ² / ndf 837.8 / 92
p0 −1.166e+04 ± 291.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −7362
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

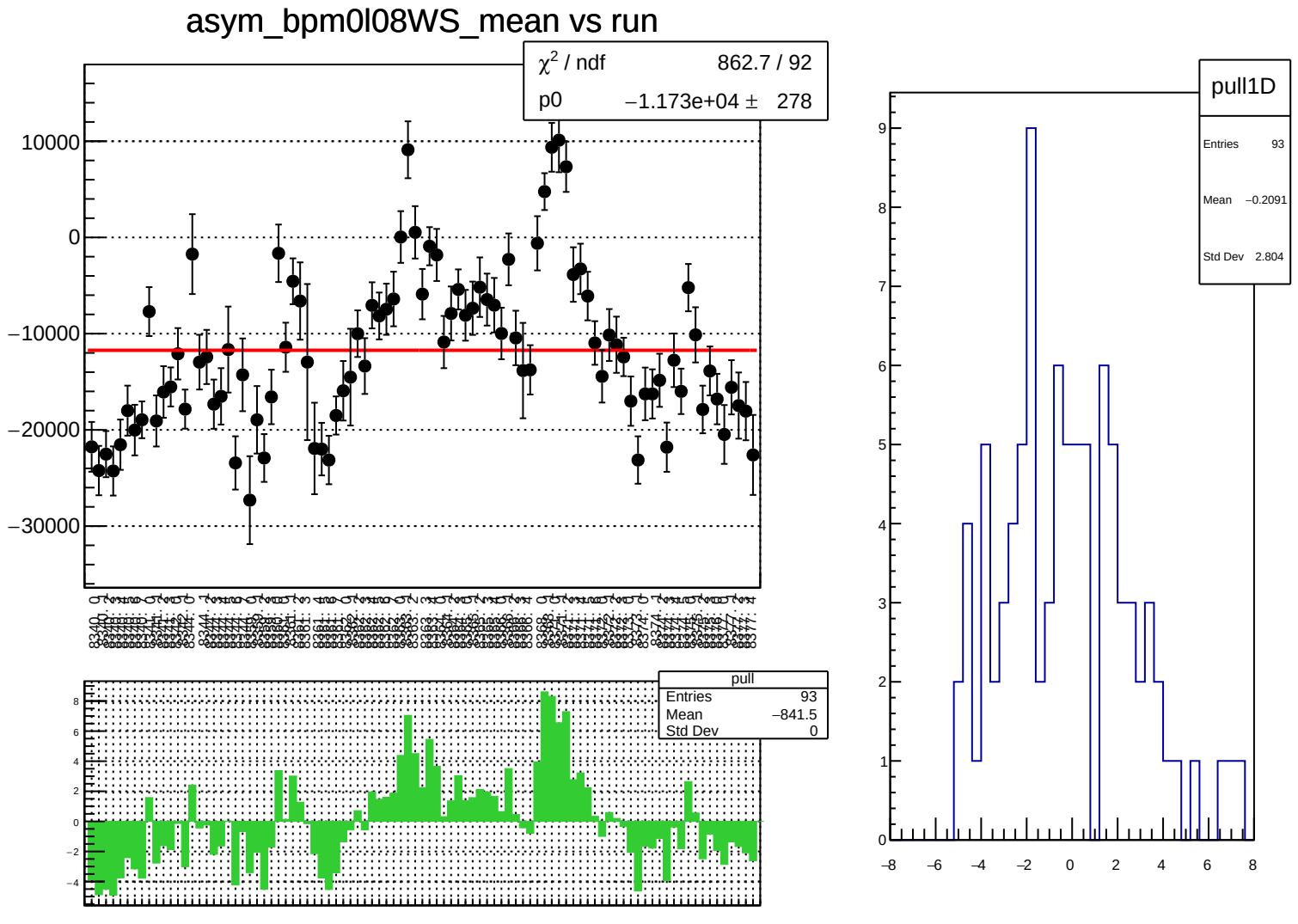

pull1D
Entries 93
Mean −0.1996
Std Dev 2.721
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

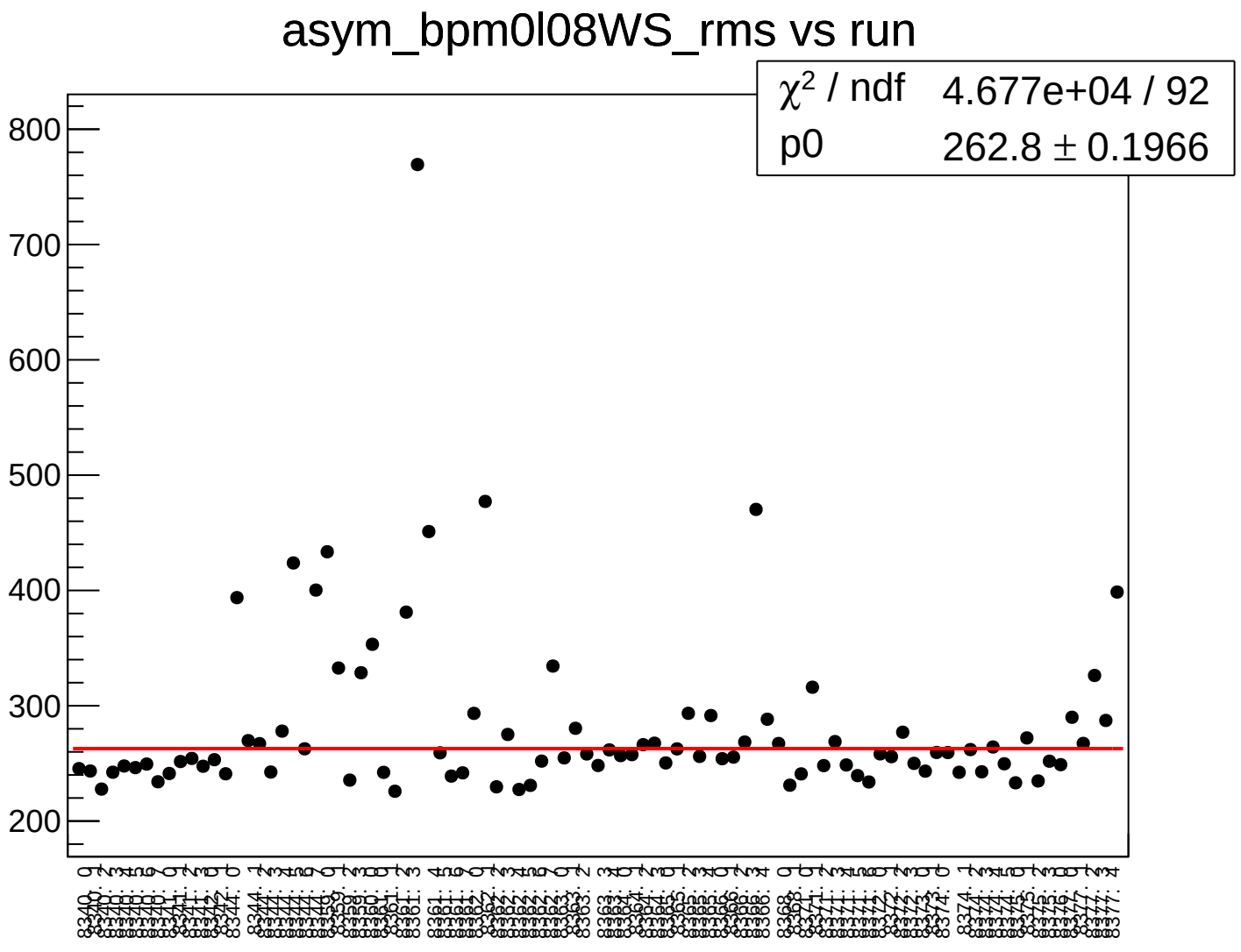

asym_bpm0l06WS_rms vs run
χ² / ndf 4.69e+04 / 92
p0 275.3 ± 0.206
800
700
600
500
400
300
200

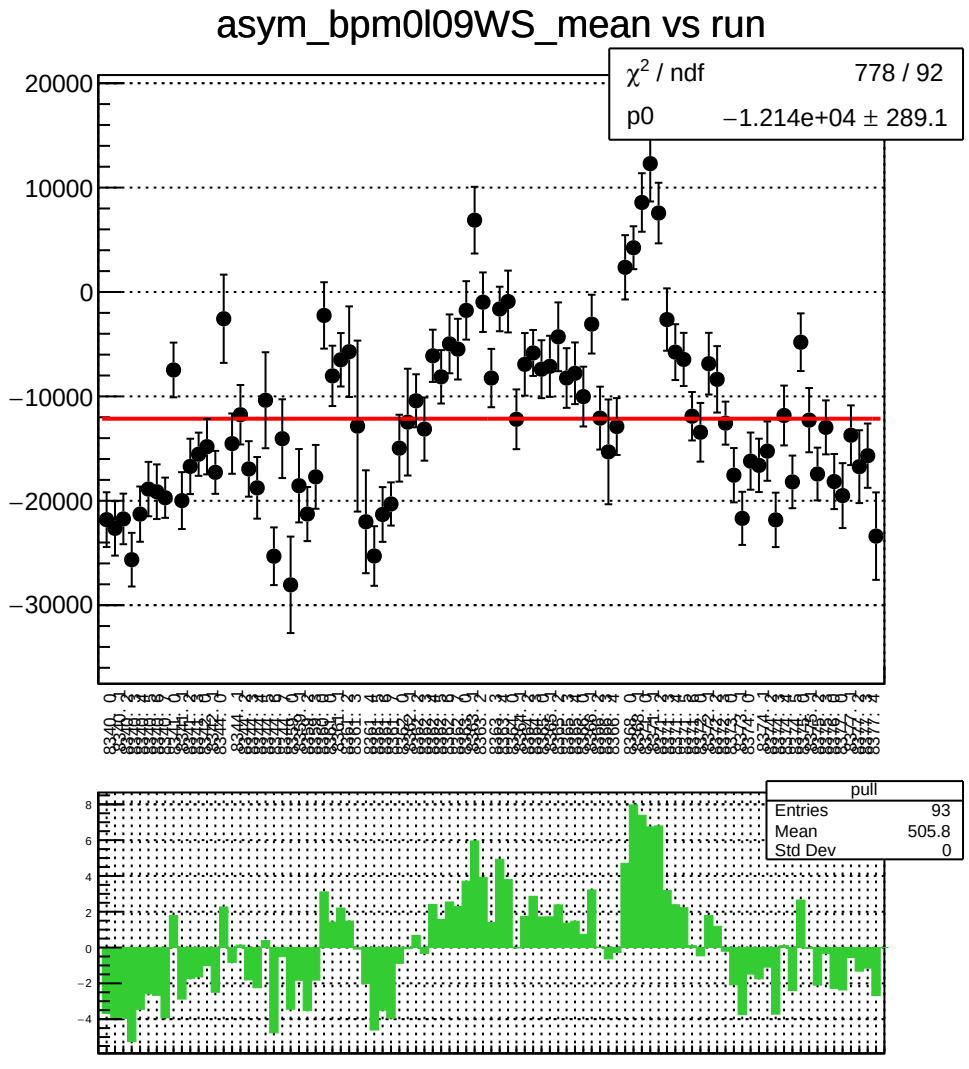

asym_bpm0l07WS_mean vs run
χ² / ndf 832.3 / 92
p0 −1.163e+04 ± 281.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2151
Std Dev 0
8
6
4
2
0
−2
−4

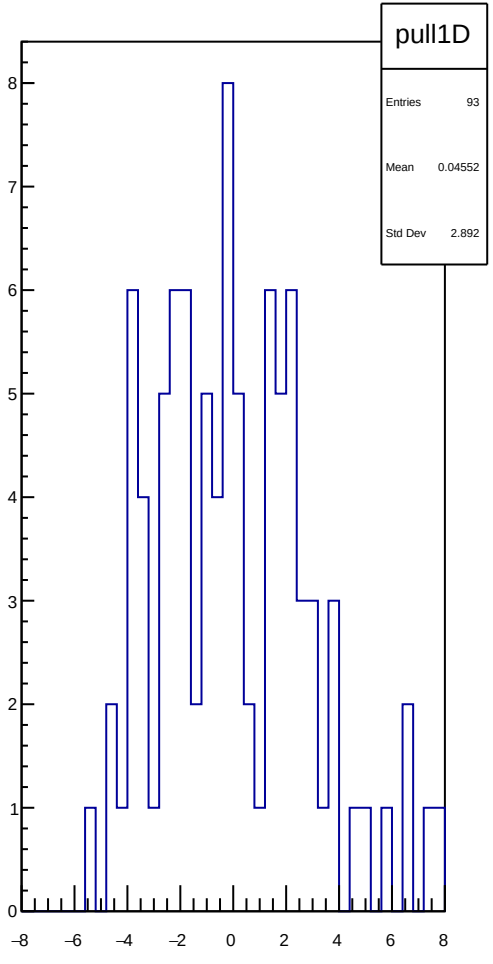

pull1D
Entries 93
Mean −0.1683
Std Dev 2.772
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

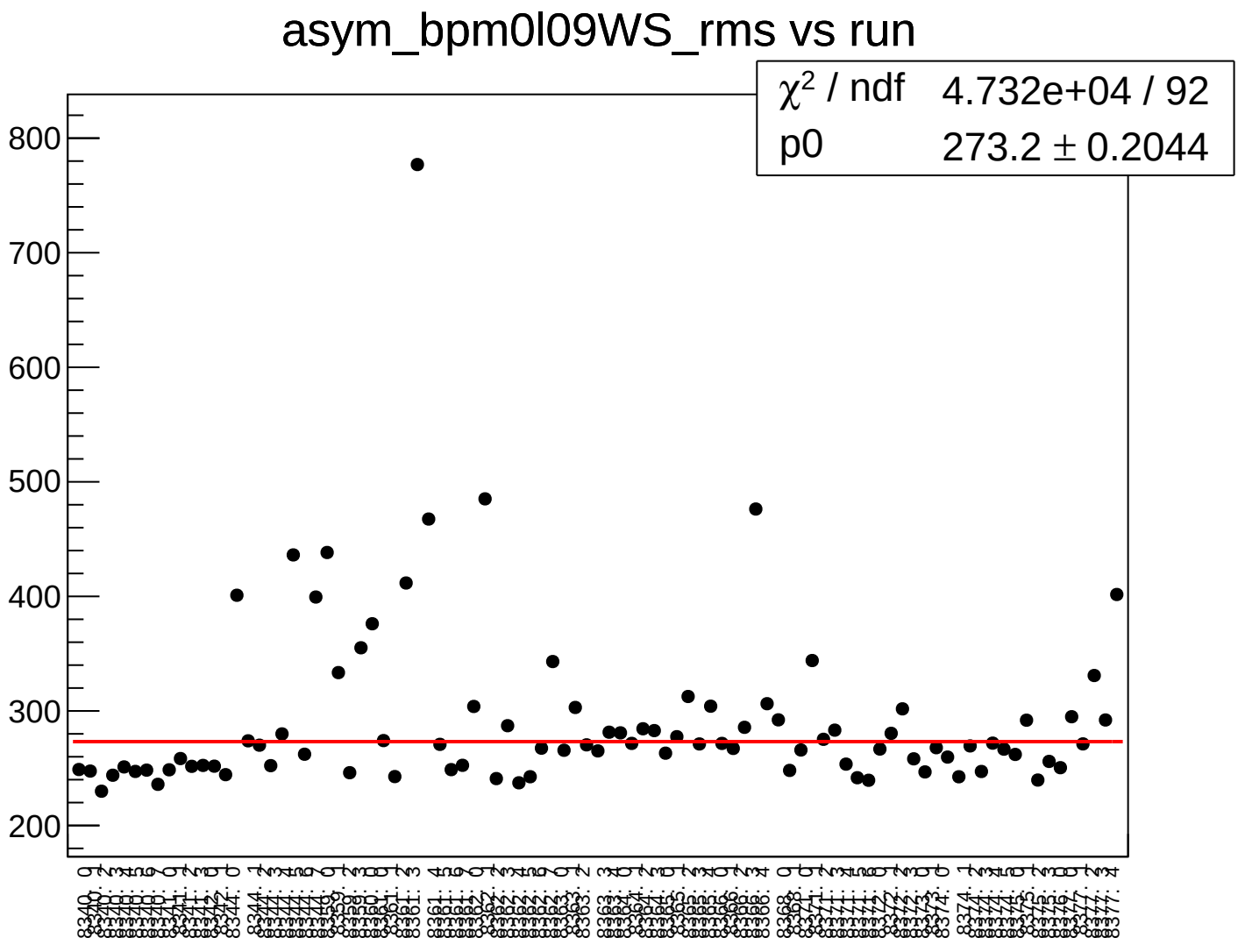

asym_bpm0l07WS_rms vs run
χ² / ndf 4.606e+04 / 92
p0 265.9 ± 0.1989
800
700
600
500
400
300
200

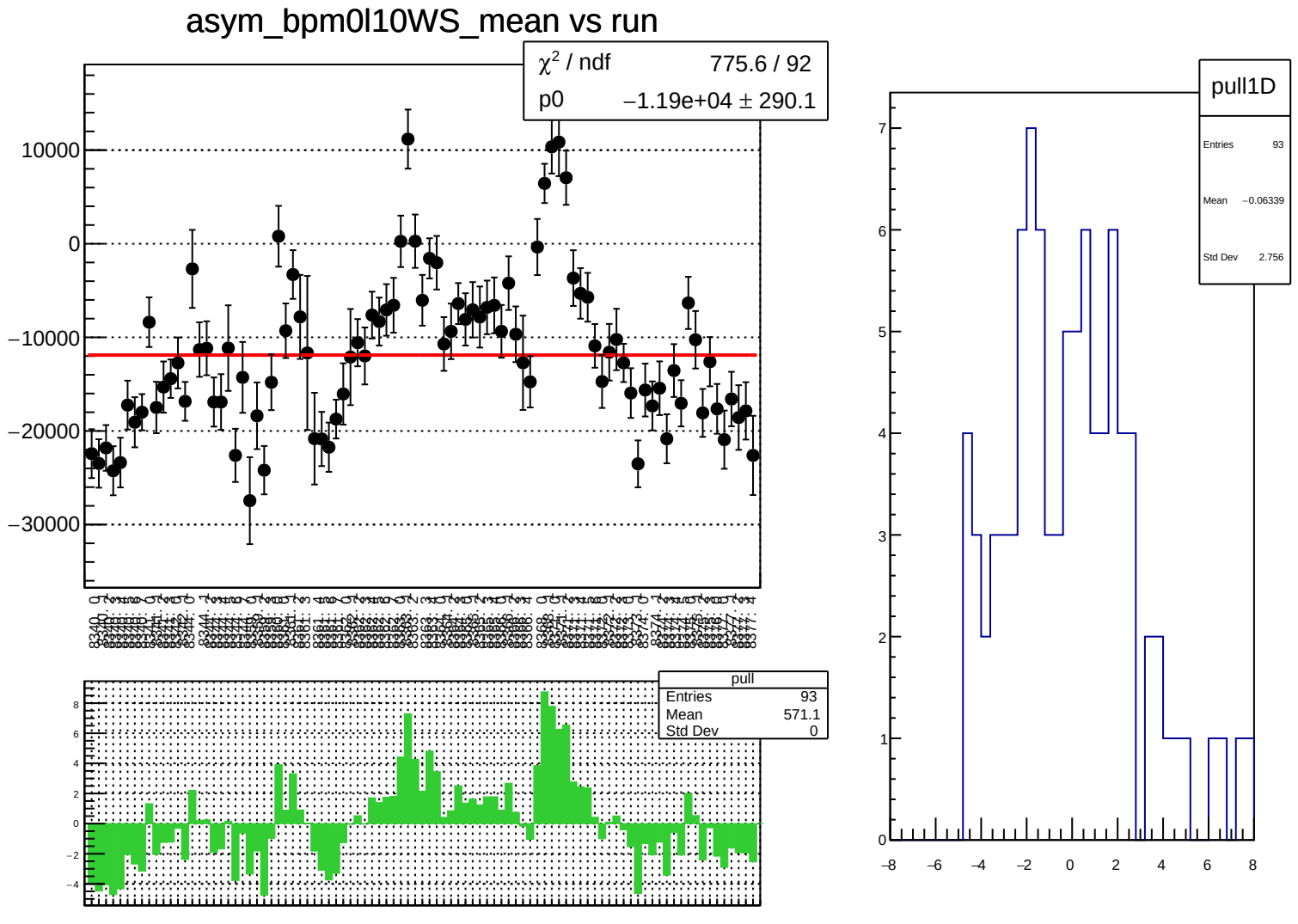

asym_bpm0l08WS_mean vs run
χ² / ndf 862.7 / 92
p0 −1.173e+04 ± 278
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −841.5
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 93
Mean −0.2091
Std Dev 2.804
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

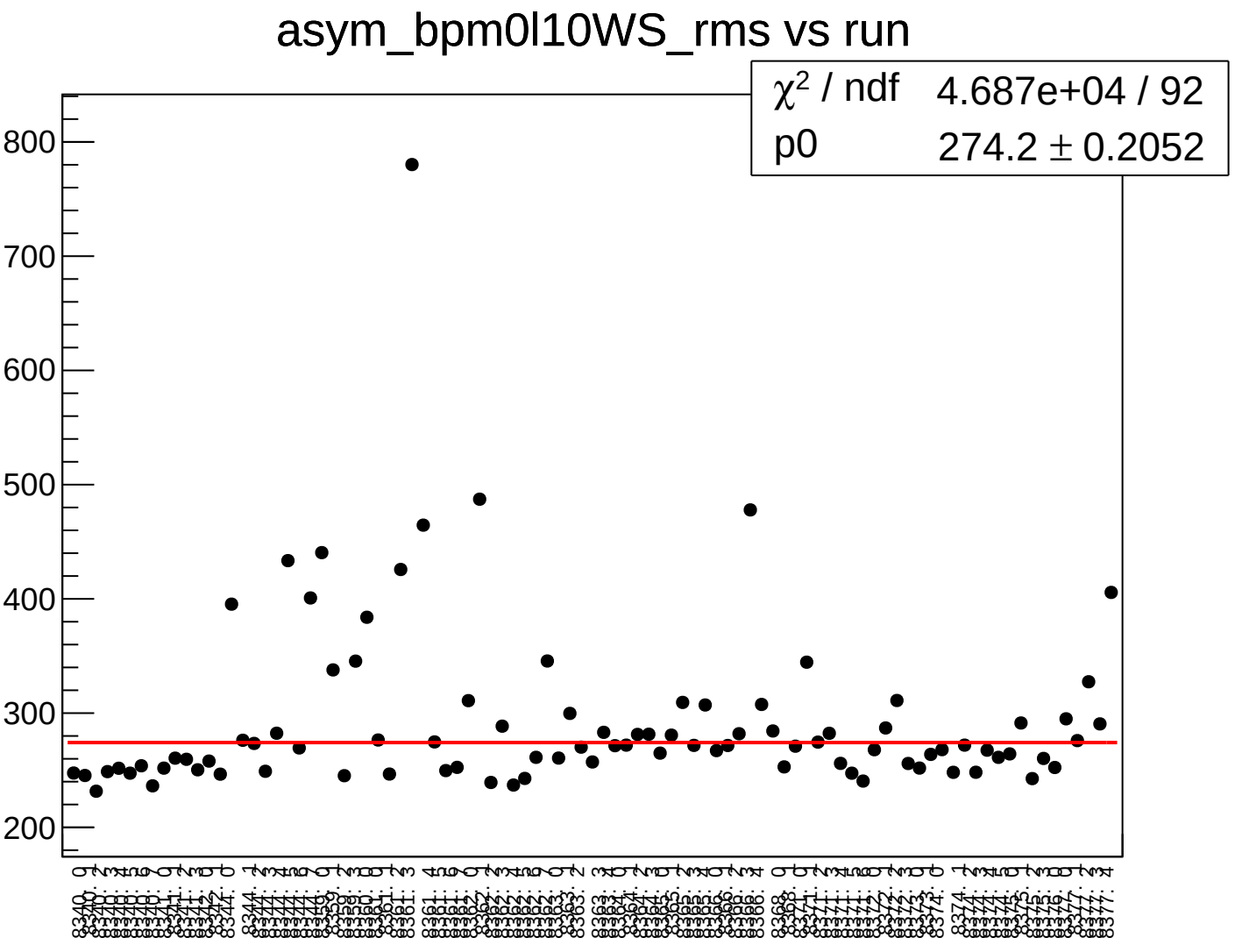

asym_bpm0l08WS_rms vs run
χ² / ndf 4.677e+04 / 92
p0 262.8 ± 0.1966
800
700
600
500
400
300
200

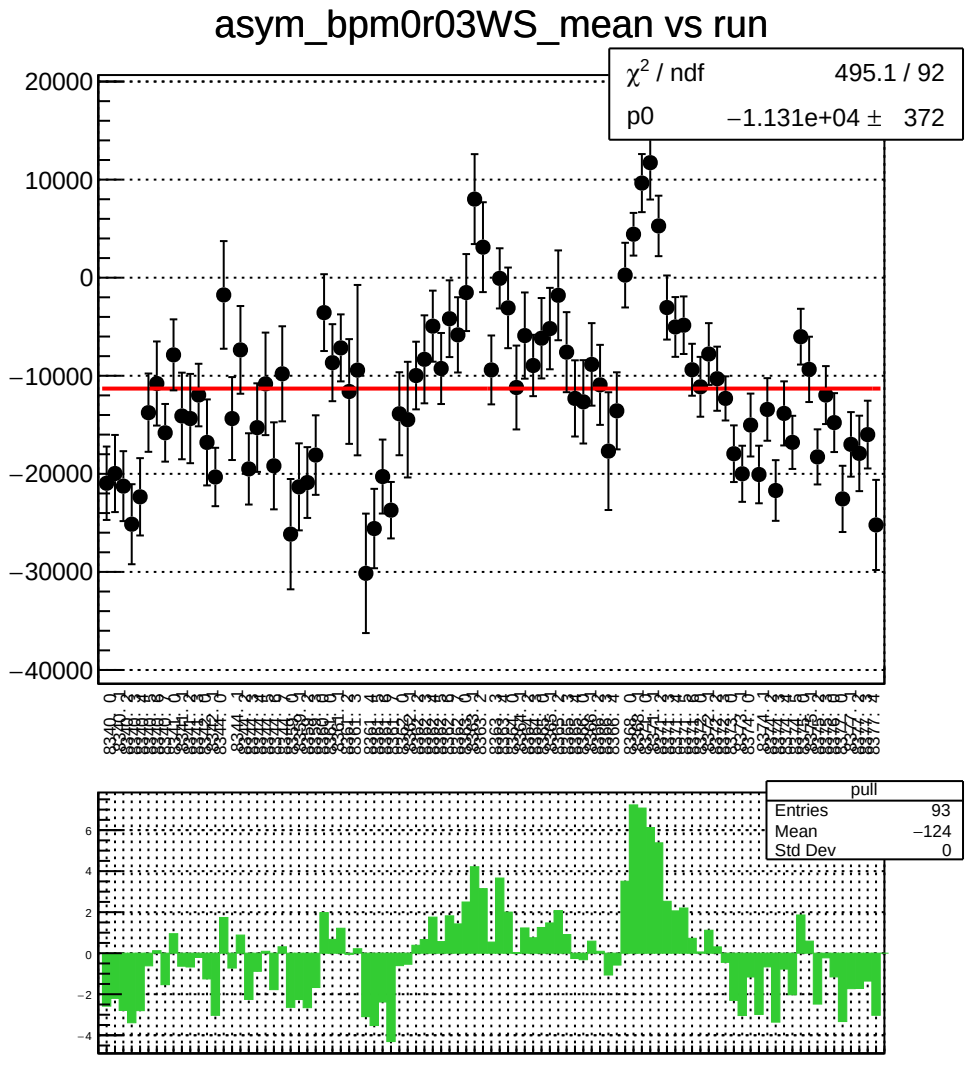

asym_bpm0l09WS_mean vs run
χ² / ndf 778 / 92
p0 −1.214e+04 ± 289.1
pull
Entries 93
Mean 505.8
Std Dev 0

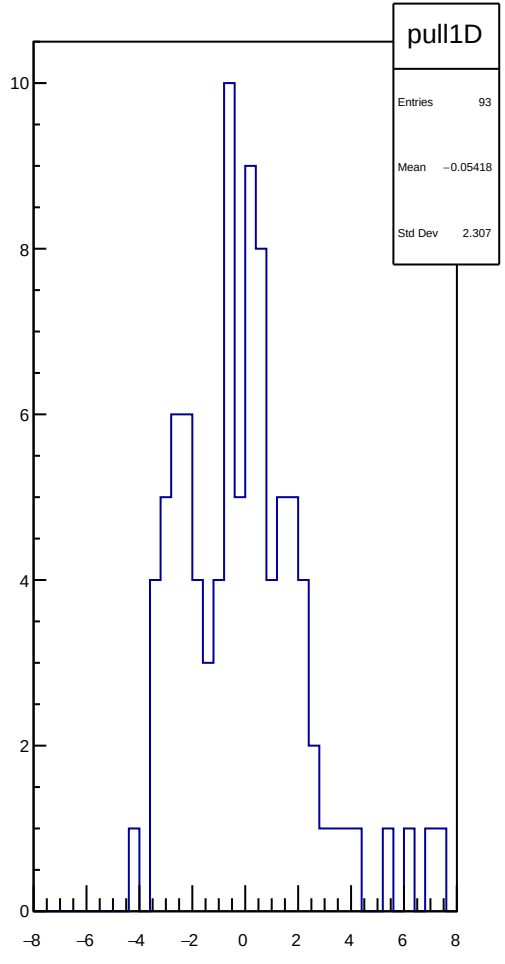

pull1D
Entries 93
Mean 0.04552
Std Dev 2.892

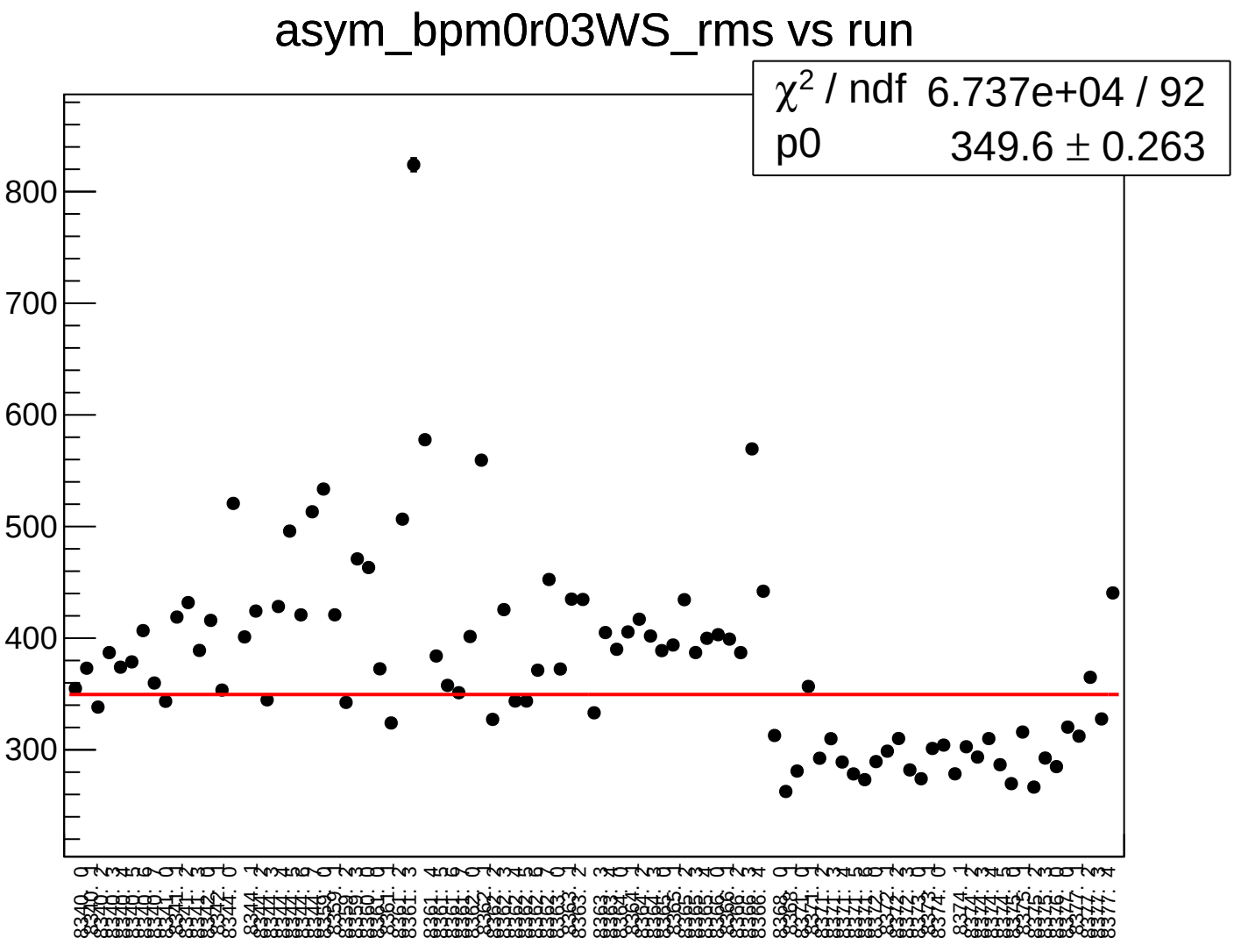

asym_bpm0l09WS_rms vs run
χ² / ndf 4.732e+04 / 92
p0 273.2 ± 0.2044
800
700
600
500
400
300
200

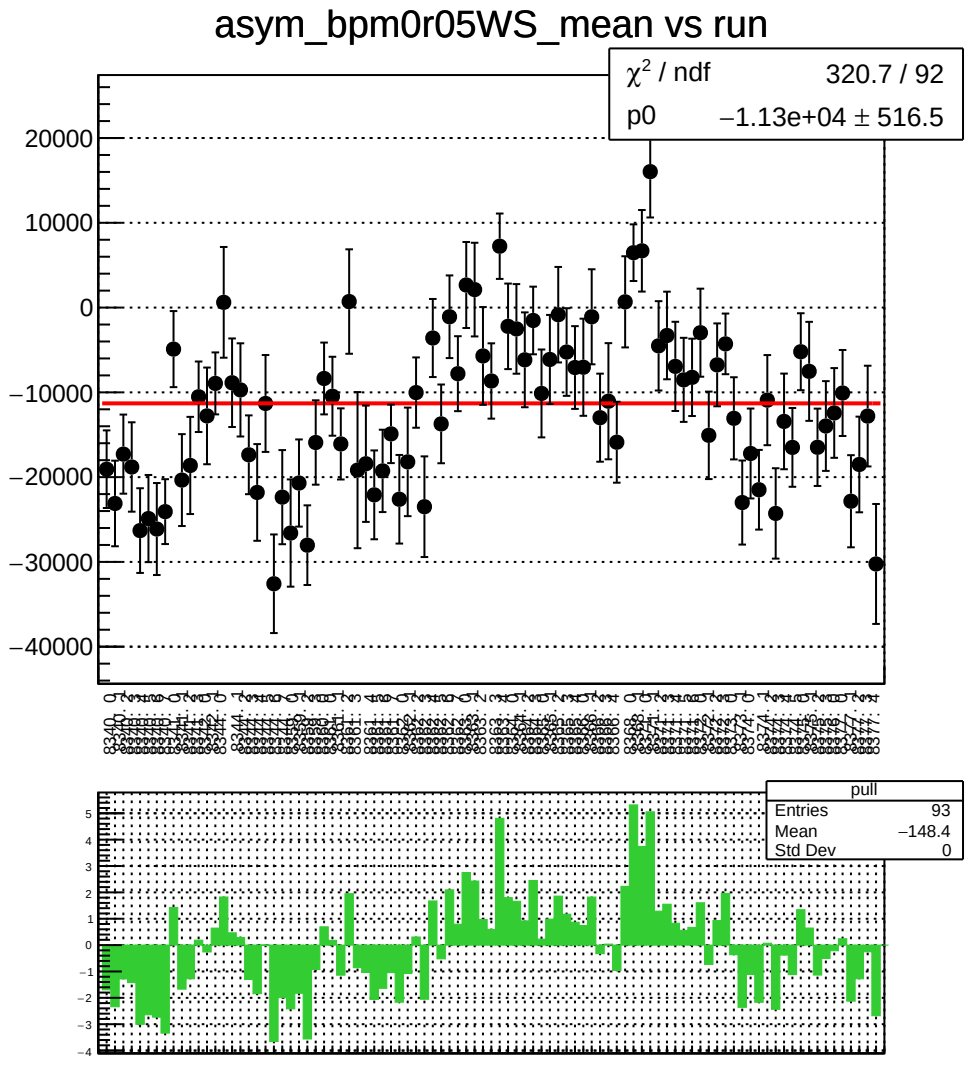

asym_bpm0l10WS_mean vs run
χ² / ndf 775.6 / 92
p0 −1.19e+04 ± 290.1
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 571.1
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 93
Mean −0.06339
Std Dev 2.756
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

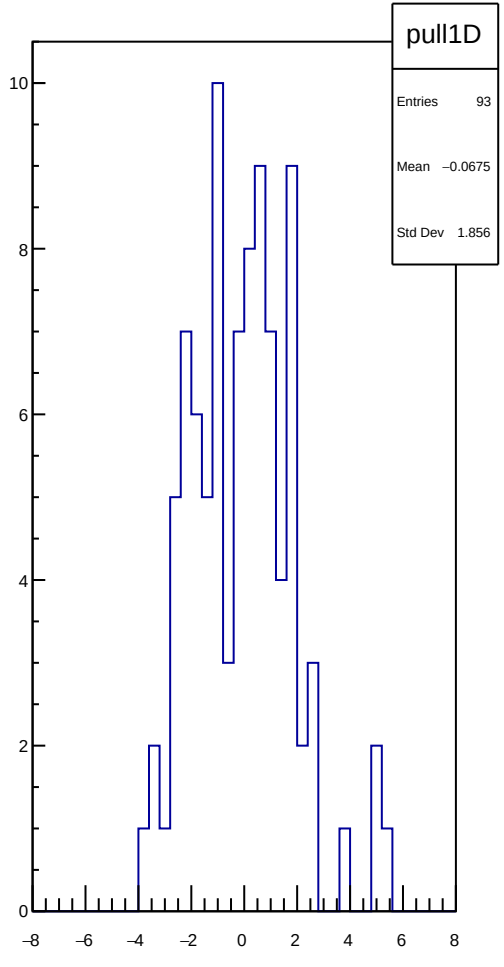

asym_bpm0l10WS_rms vs run
χ² / ndf 4.687e+04 / 92
p0 274.2 ± 0.2052
800
700
600
500
400
300
200

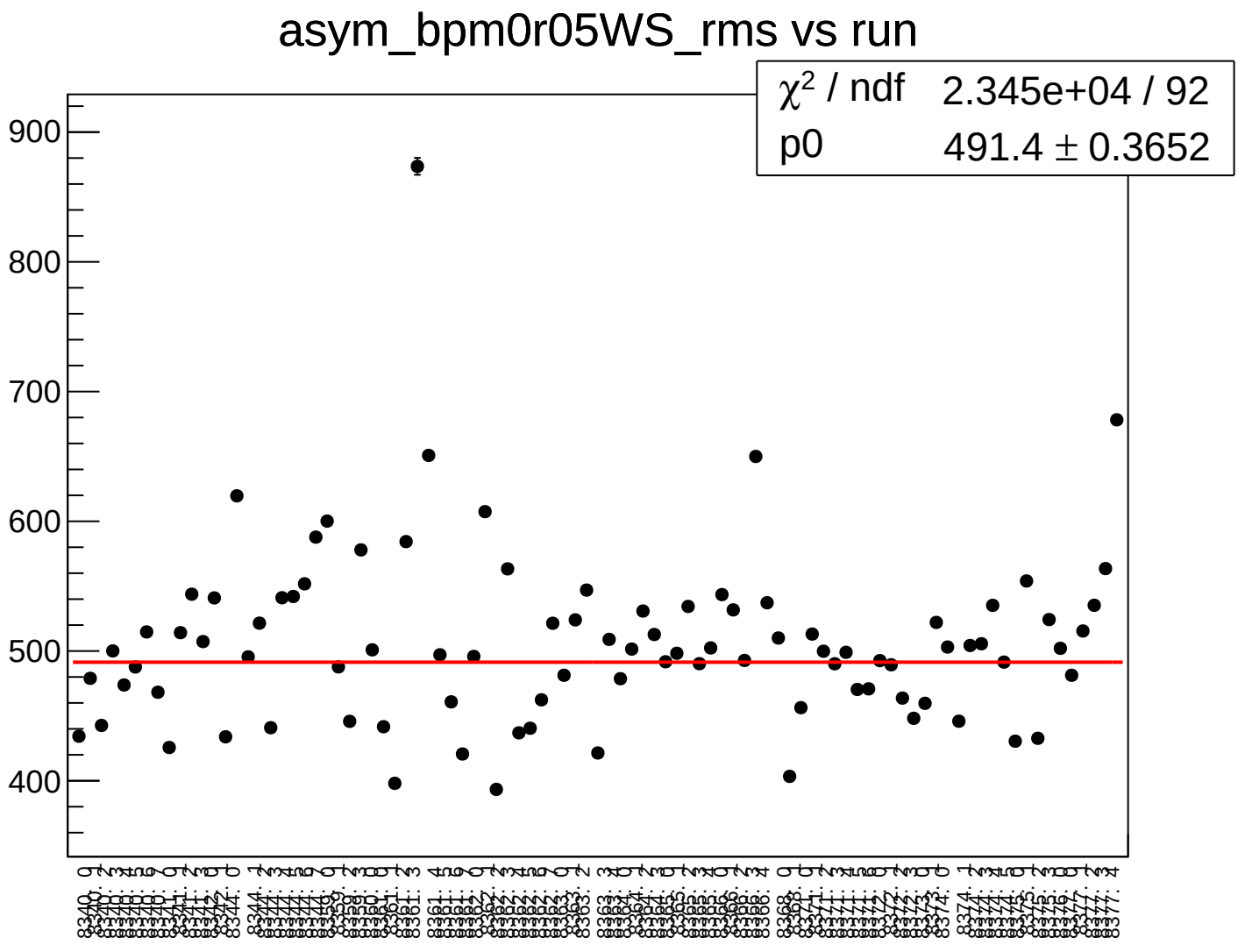

asym_bpm0r03WS_mean vs run
χ² / ndf 495.1 / 92
p0 −1.131e+04 ± 372
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −124
Std Dev 0
6
4
2
0
−2
−4

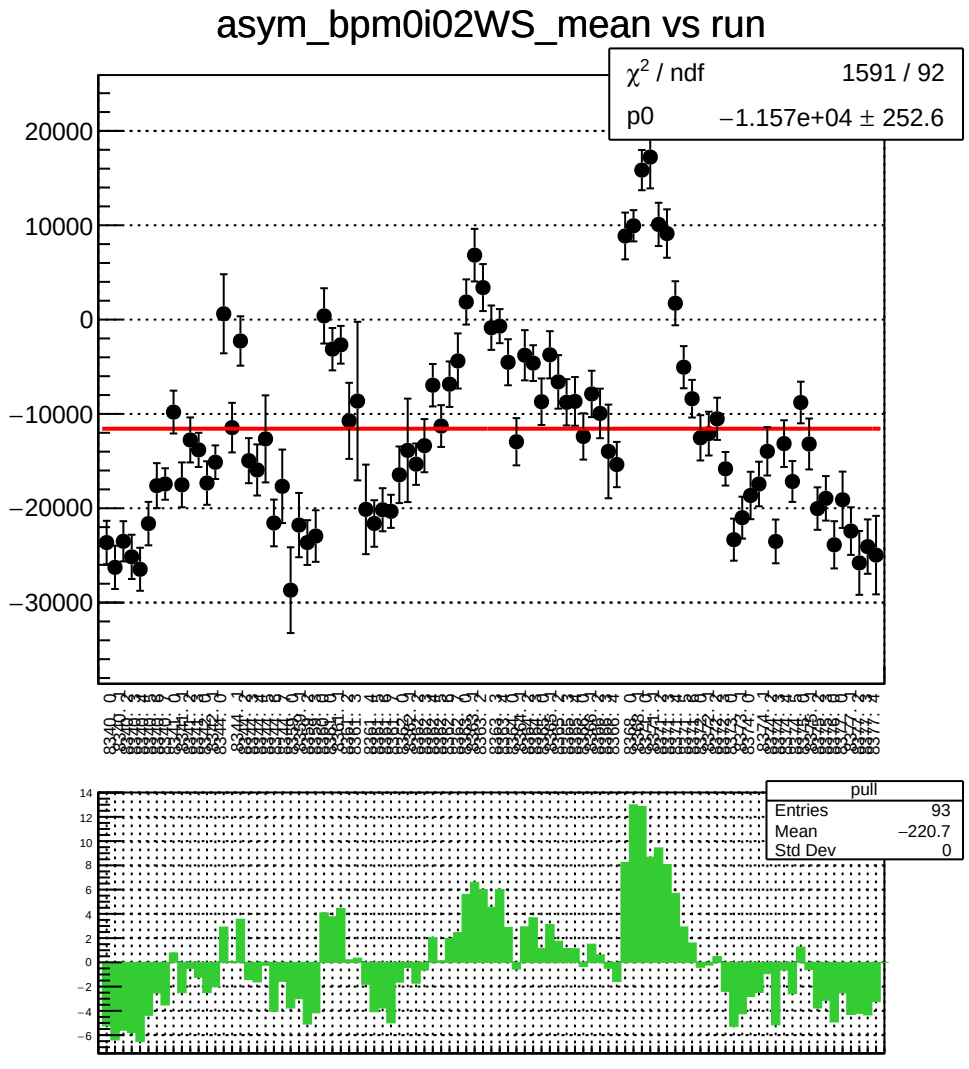

pull1D
Entries 93
Mean −0.05418
Std Dev 2.307
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

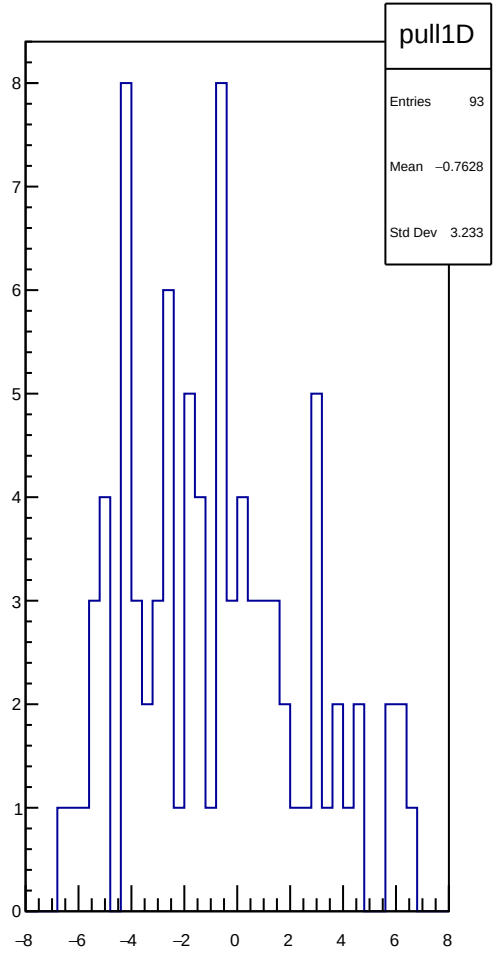

asym_bpm0r03WS_rms vs run
χ² / ndf 6.737e+04 / 92
p0 349.6 ± 0.263
800
700
600
500
400
300

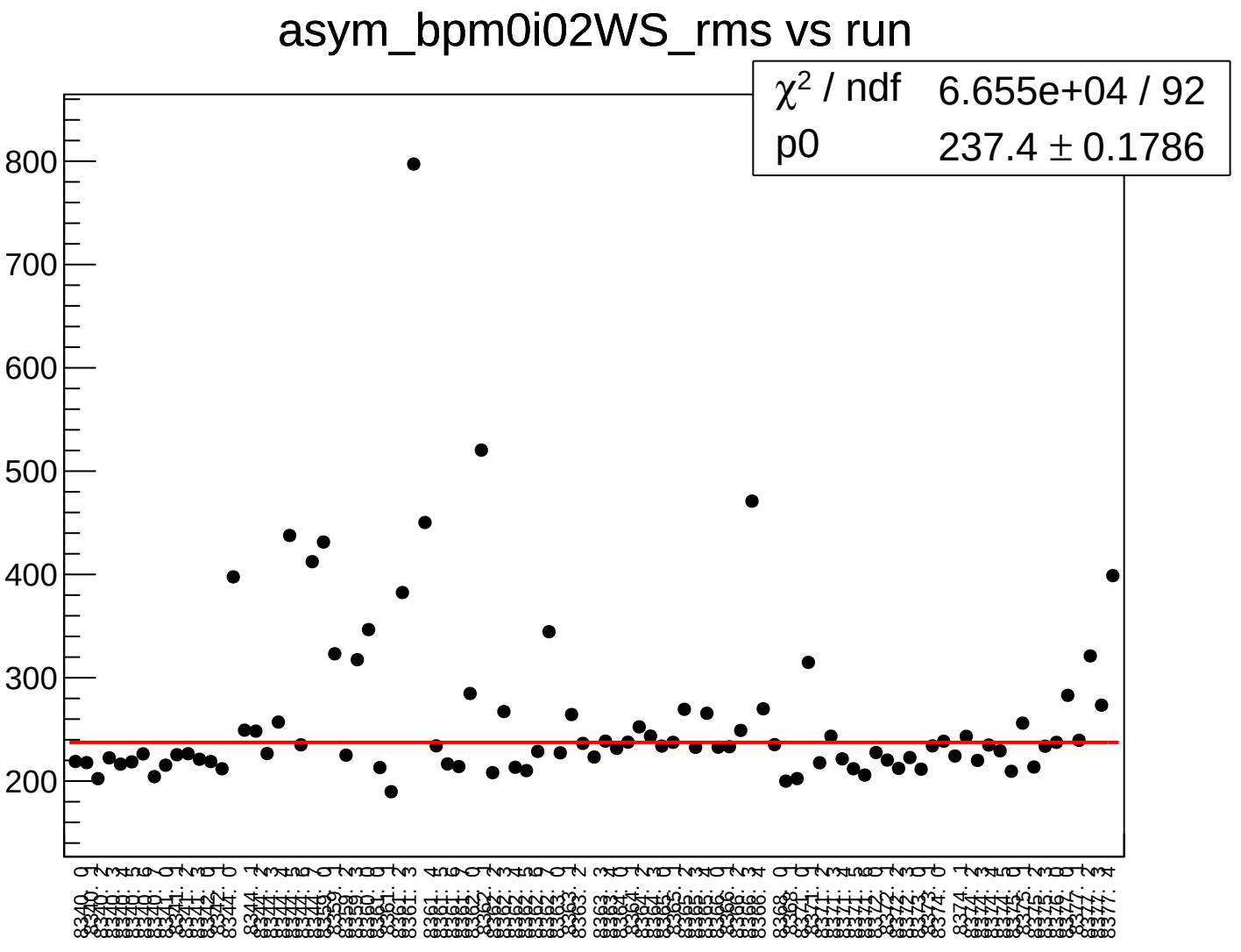

asym_bpm0r05WS_mean vs run
χ² / ndf 320.7 / 92
p0 −1.13e+04 ± 516.5
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −148.4
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

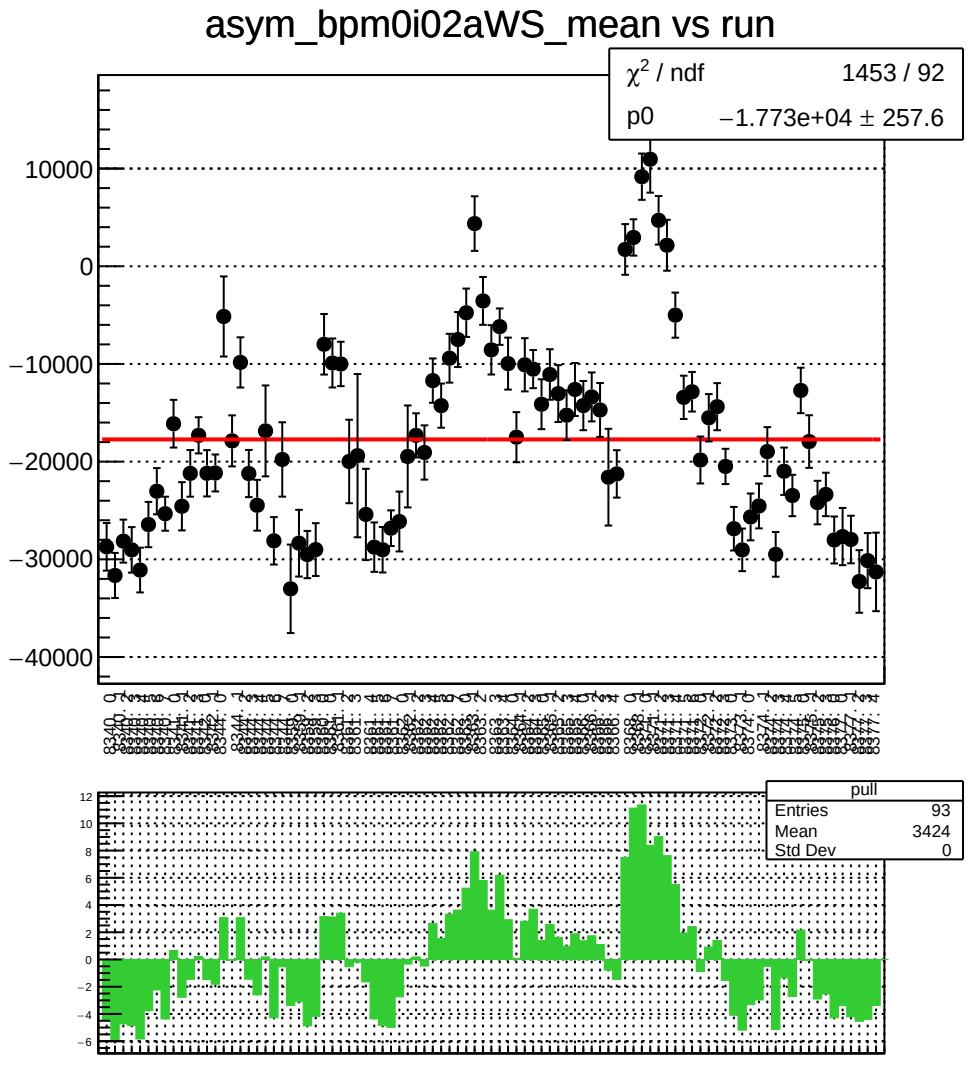

pull1D
Entries 93
Mean −0.0675
Std Dev 1.856
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

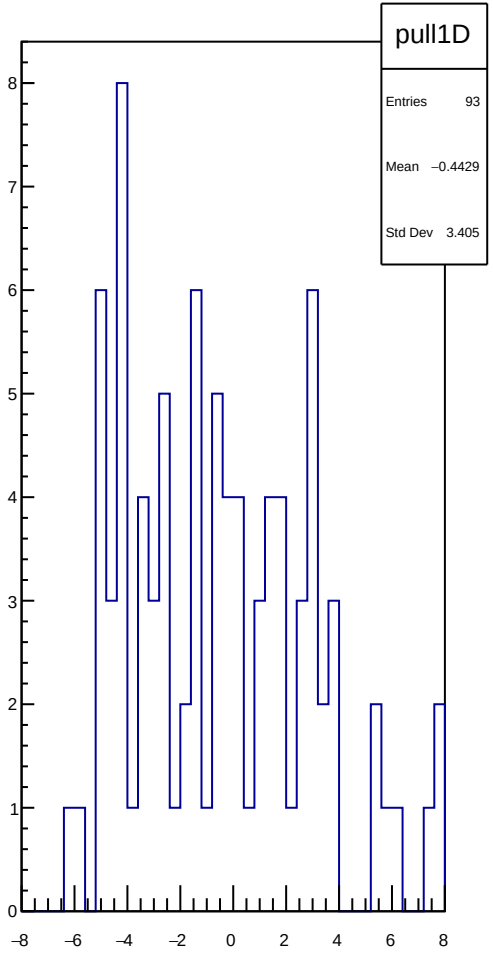

asym_bpm0r05WS_rms vs run
χ² / ndf 2.345e+04 / 92
p0 491.4 ± 0.3652
900
800
700
600
500
400

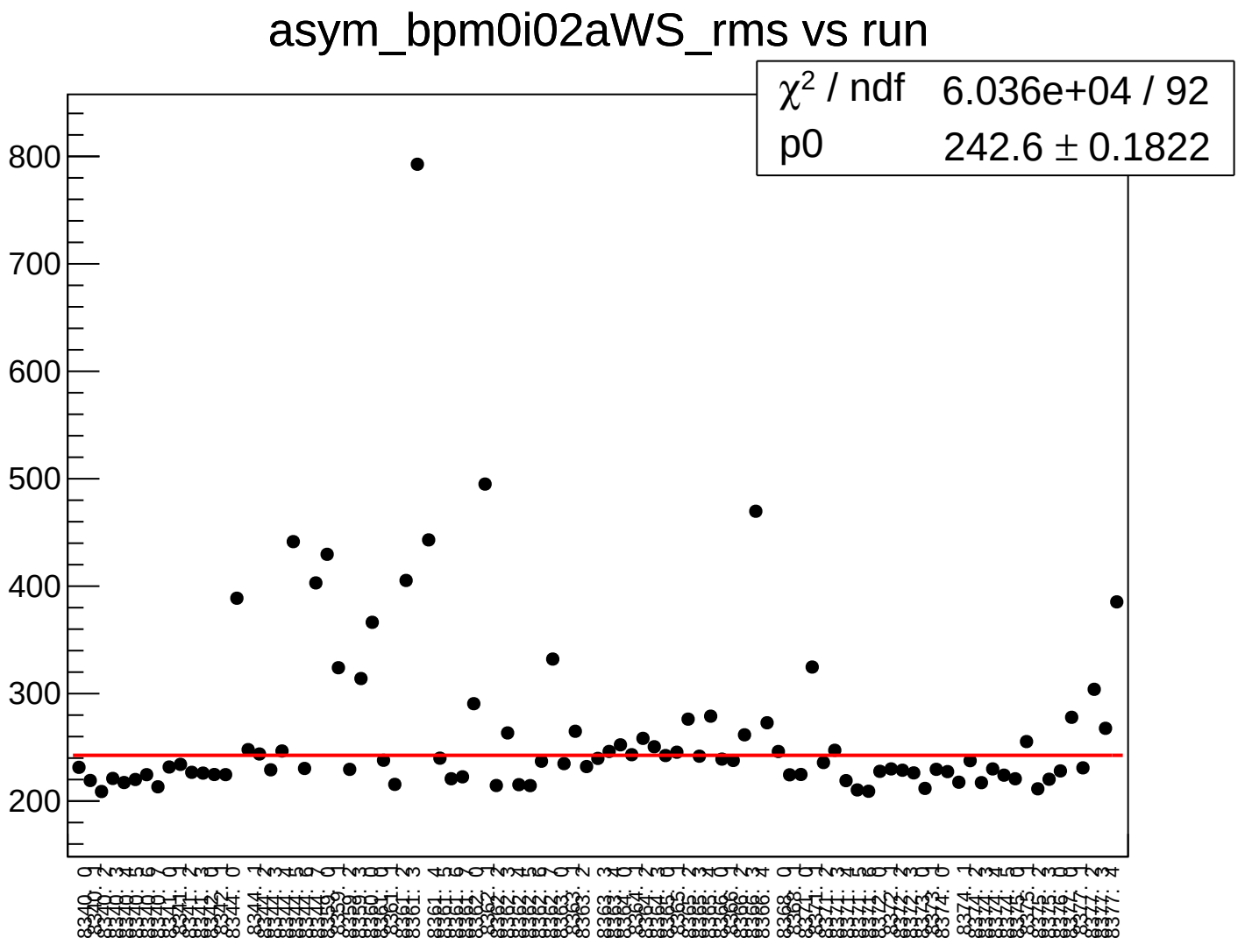

asym_bpm0i02WS_mean vs run
χ² / ndf 1591 / 92
p0 −1.157e+04 ± 252.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −220.7
Std Dev 0
14
12
10
8
6
4
2
0
−2
−4
−6

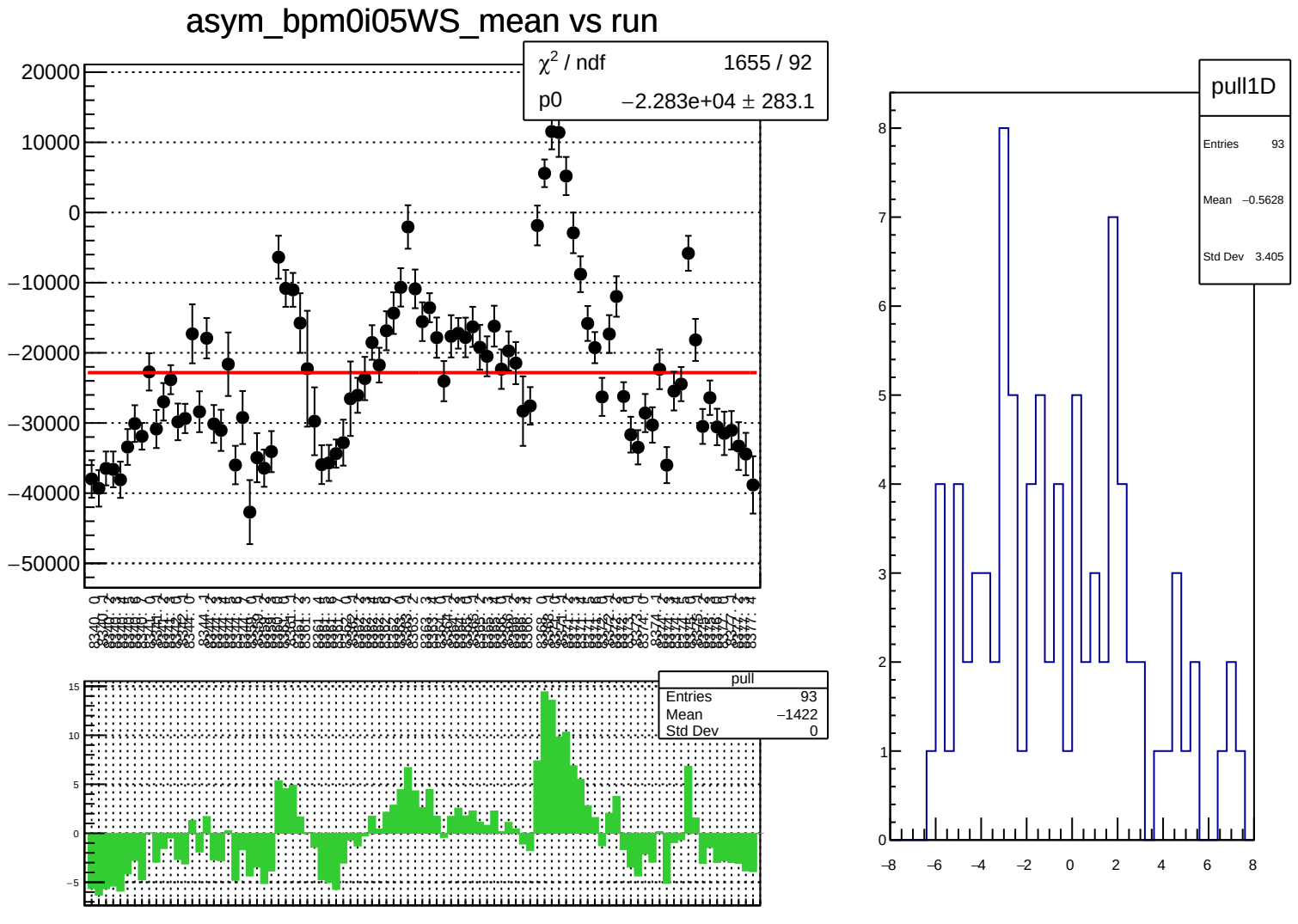

pull1D
Entries 93
Mean −0.7628
Std Dev 3.233
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

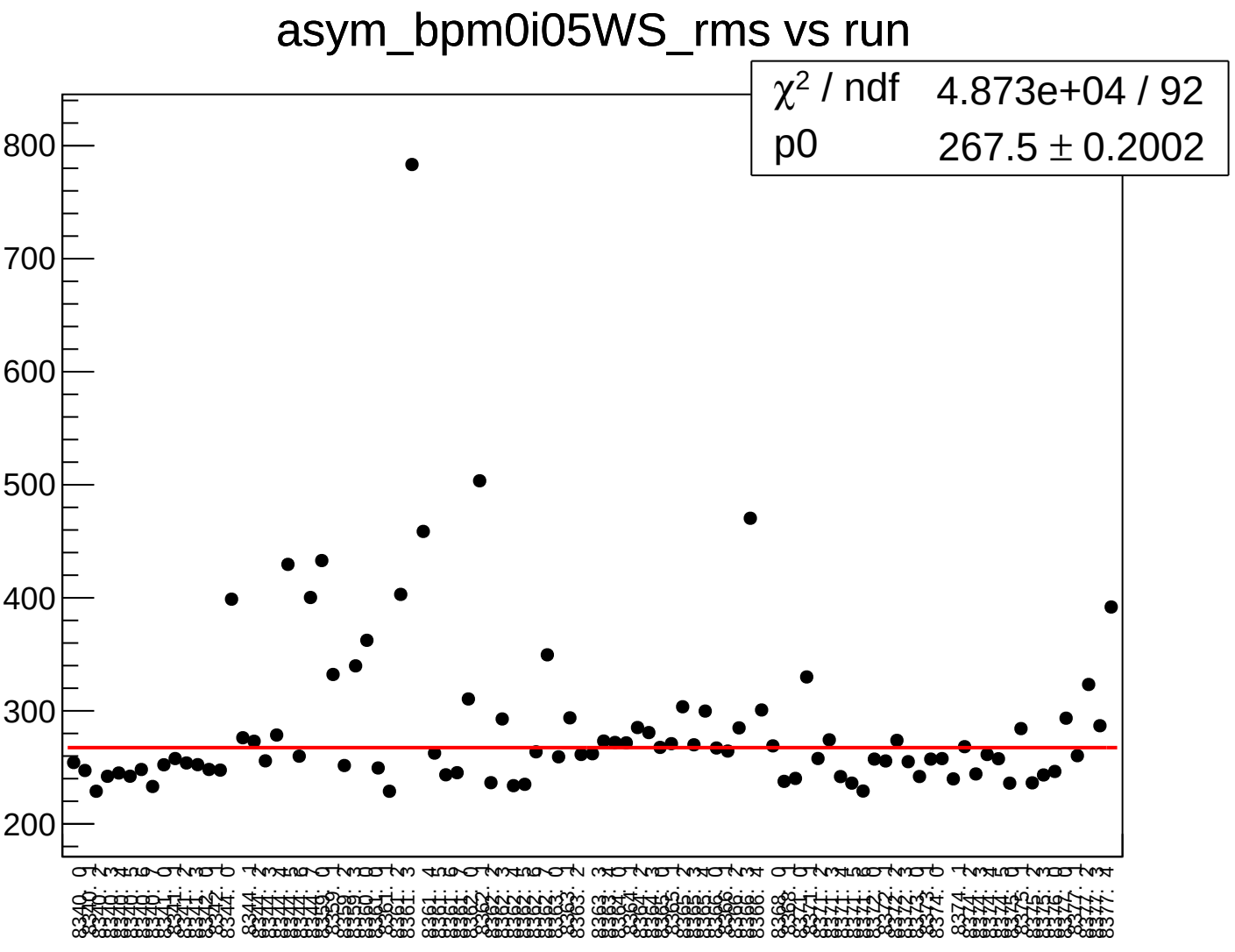

asym_bpm0i02WS_rms vs run
χ² / ndf 6.655e+04 / 92
p0 237.4 ± 0.1786
800
700
600
500
400
300
200

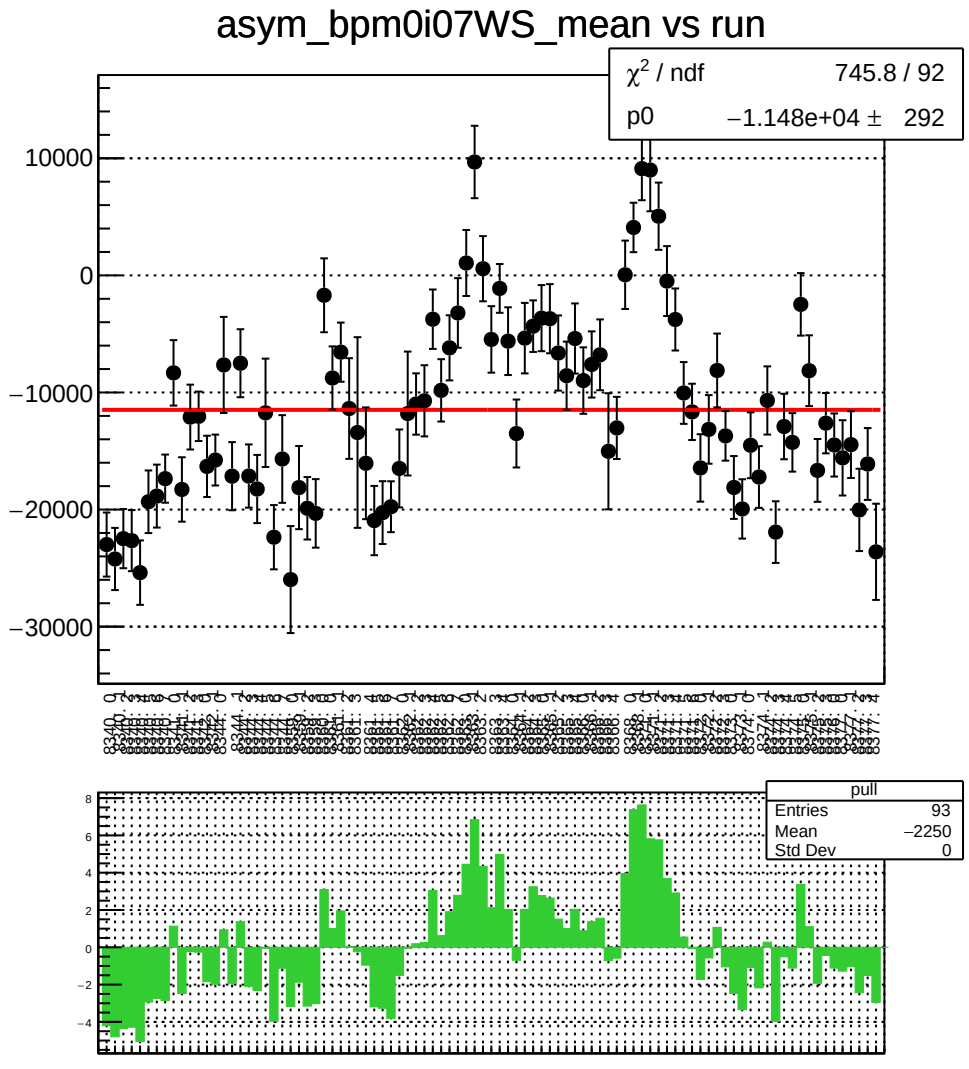

asym_bpm0i02aWS_mean vs run
χ² / ndf 1453 / 92
p0 −1.773e+04 ± 257.6
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 3424
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6

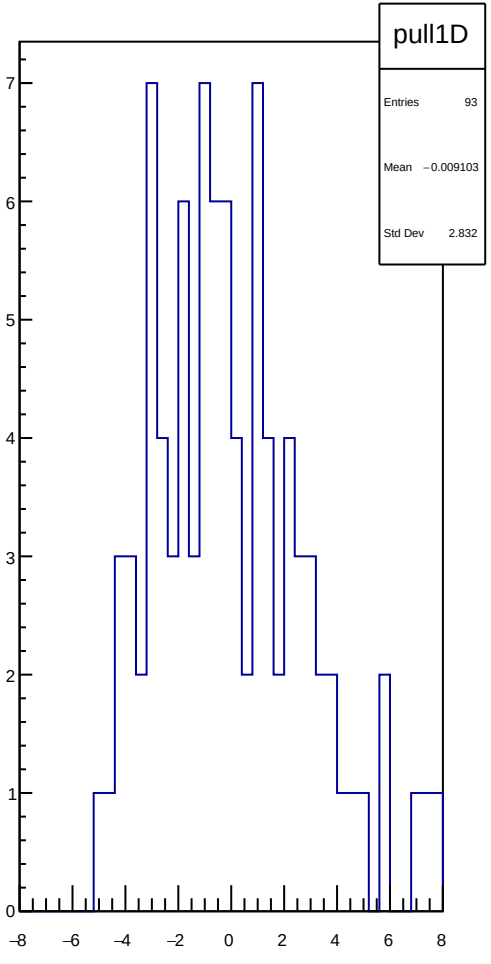

pull1D
Entries 93
Mean −0.4429
Std Dev 3.405
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

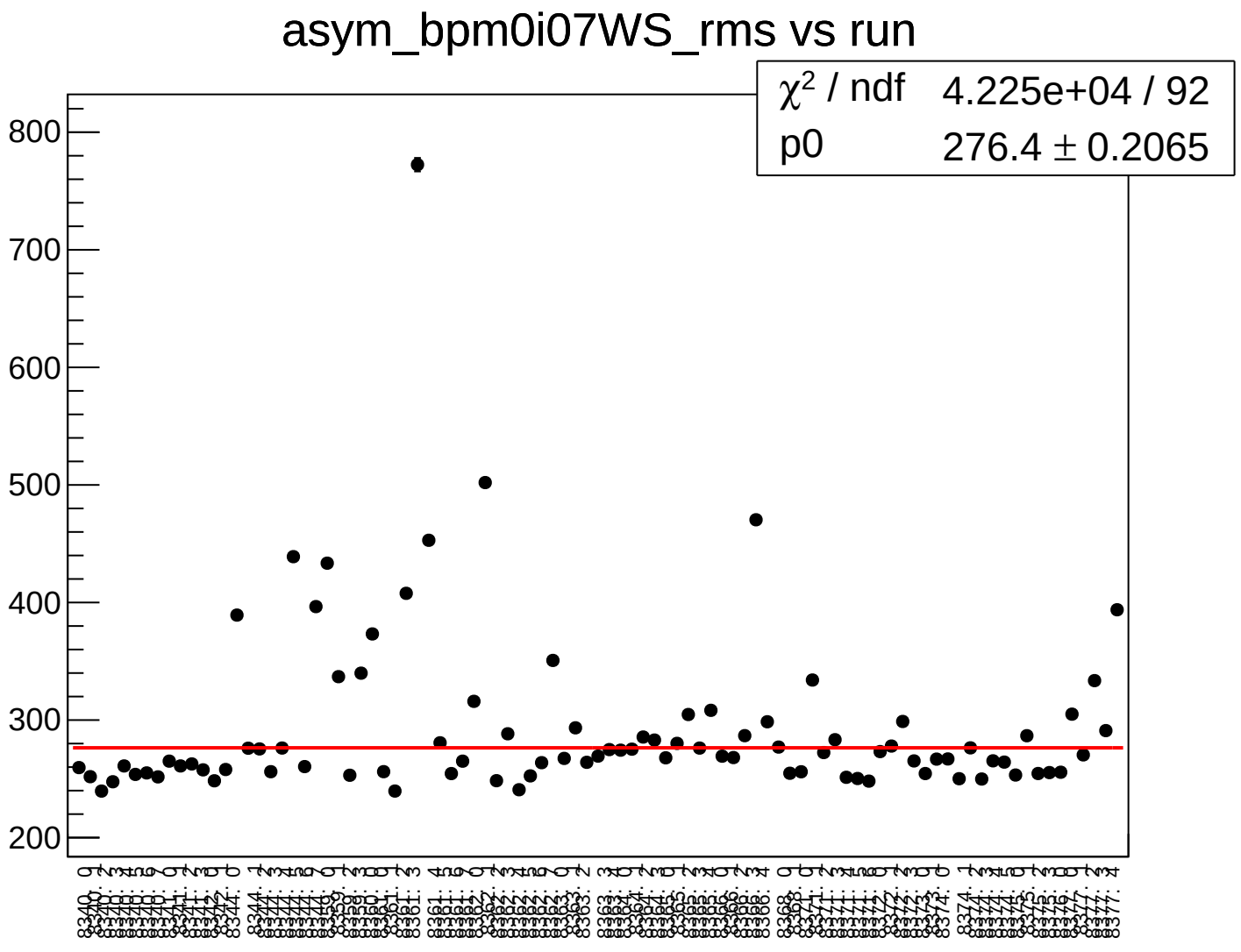

asym_bpm0i02aWS_rms vs run
χ² / ndf 6.036e+04 / 92
p0 242.6 ± 0.1822
800
700
600
500
400
300
200

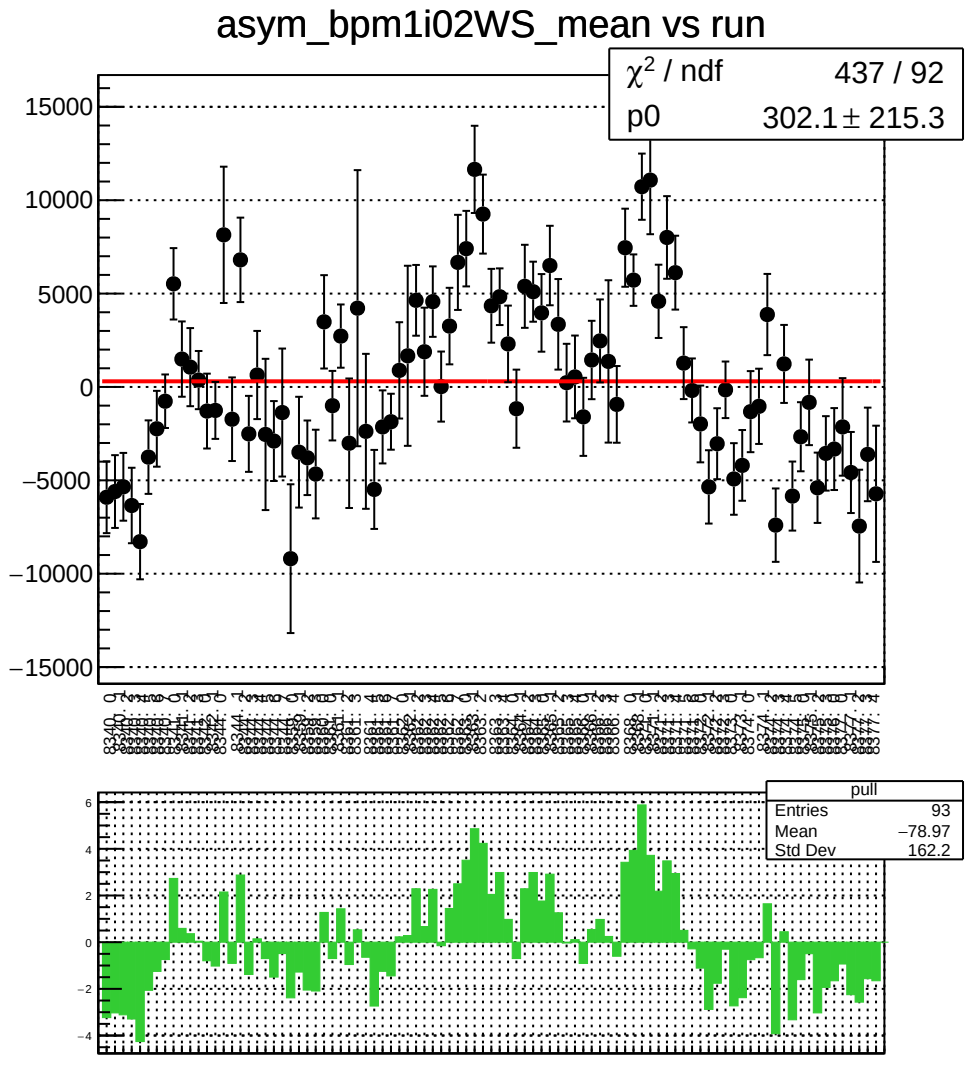

asym_bpm0i05WS_mean vs run
χ² / ndf 1655 / 92
p0 −2.283e+04 ± 283.1
pull
Entries 93
Mean −1422
Std Dev 0
pull1D
Entries 93
Mean −0.5628
Std Dev 3.405

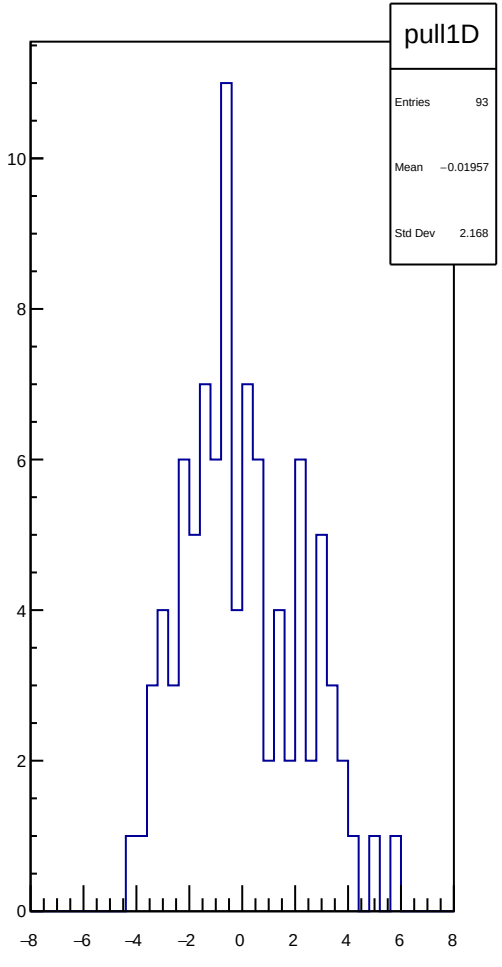

asym_bpm0i05WS_rms vs run
χ² / ndf 4.873e+04 / 92
p0 267.5 ± 0.2002
800
700
600
500
400
300
200

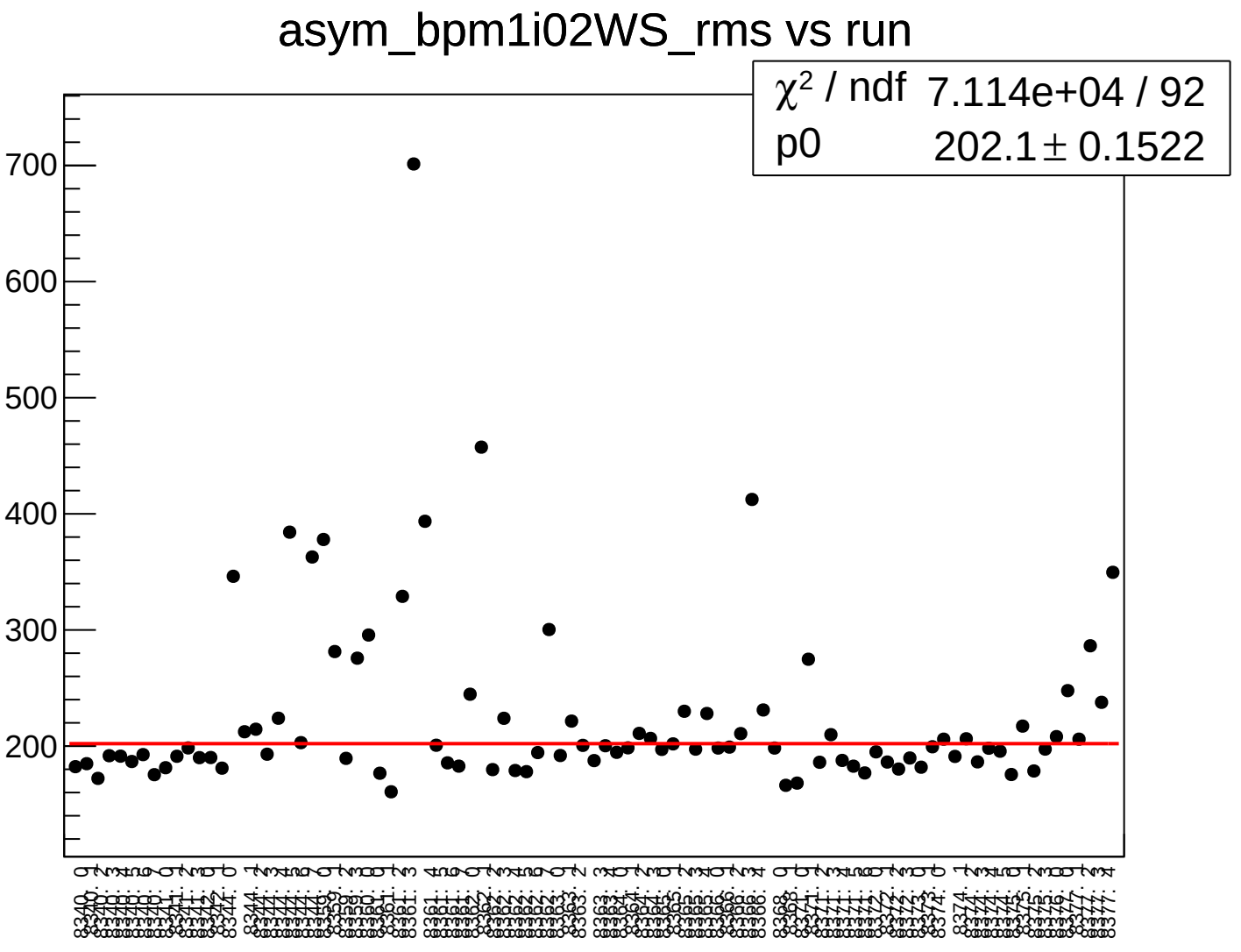

asym_bpm0i07WS_mean vs run
χ² / ndf 745.8 / 92
p0 −1.148e+04 ± 292
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −2250
Std Dev 0
8
6
4
2
0
−2
−4

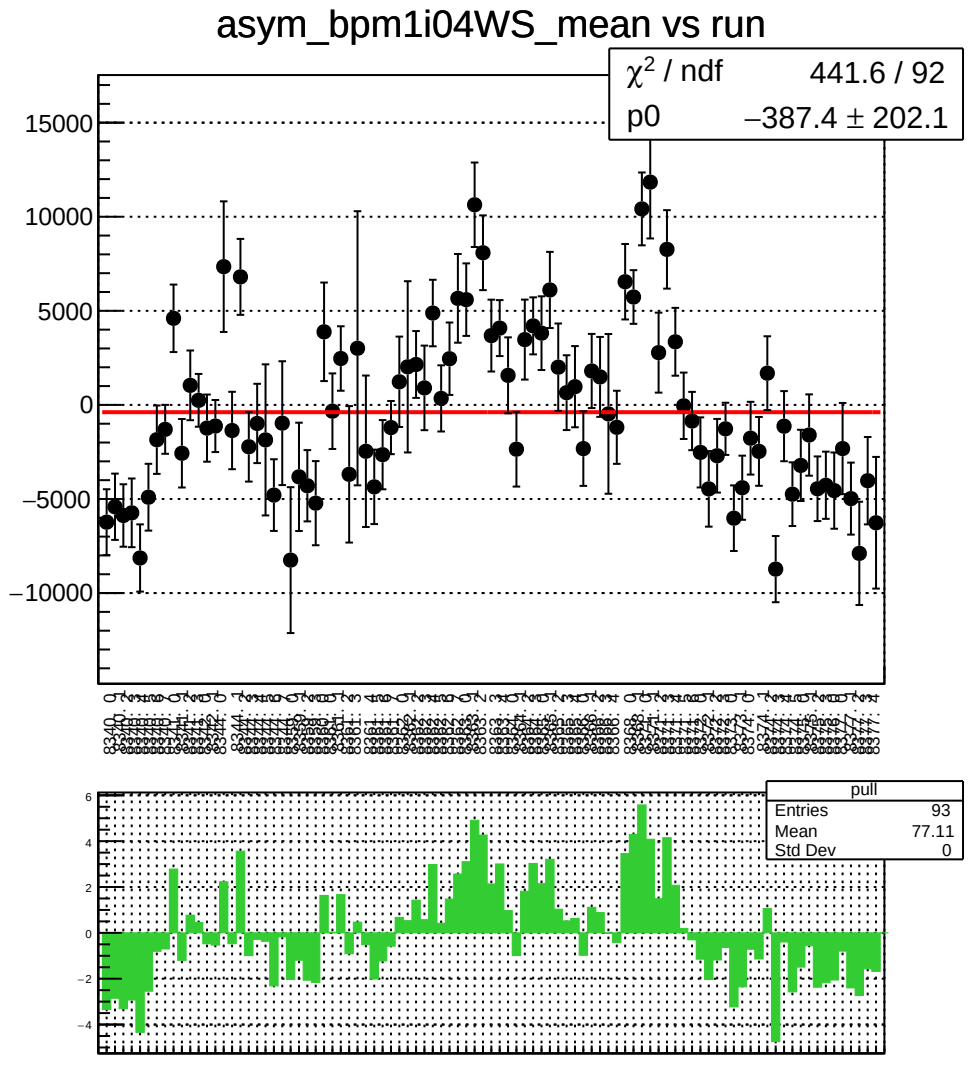

pull1D
Entries 93
Mean −0.009103
Std Dev 2.832
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

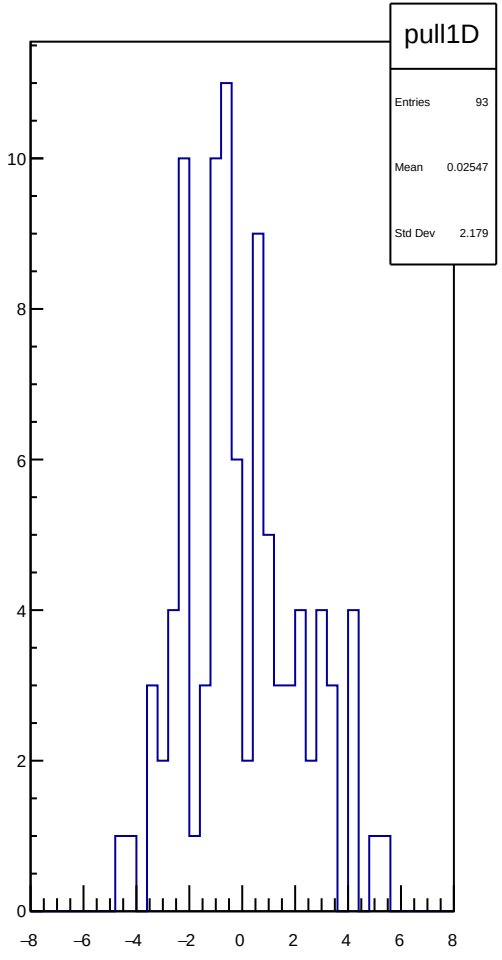

asym_bpm0i07WS_rms vs run
χ² / ndf 4.225e+04 / 92
p0 276.4 ± 0.2065
800
700
600
500
400
300
200

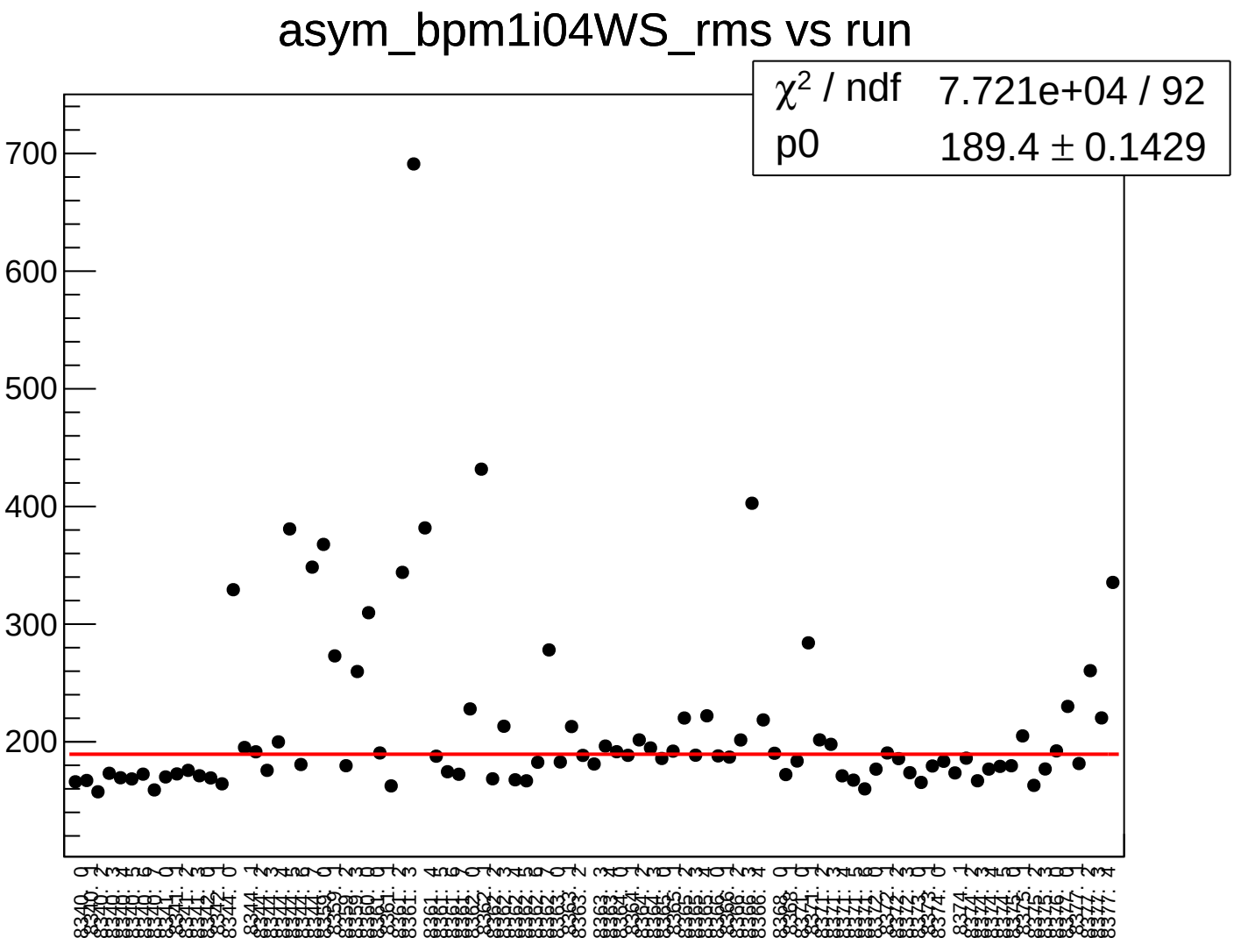

asym_bpm1i02WS_mean vs run
χ² / ndf 437 / 92
p0 302.1 ± 215.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −78.97
Std Dev 162.2
6
4
2
0
−2
−4

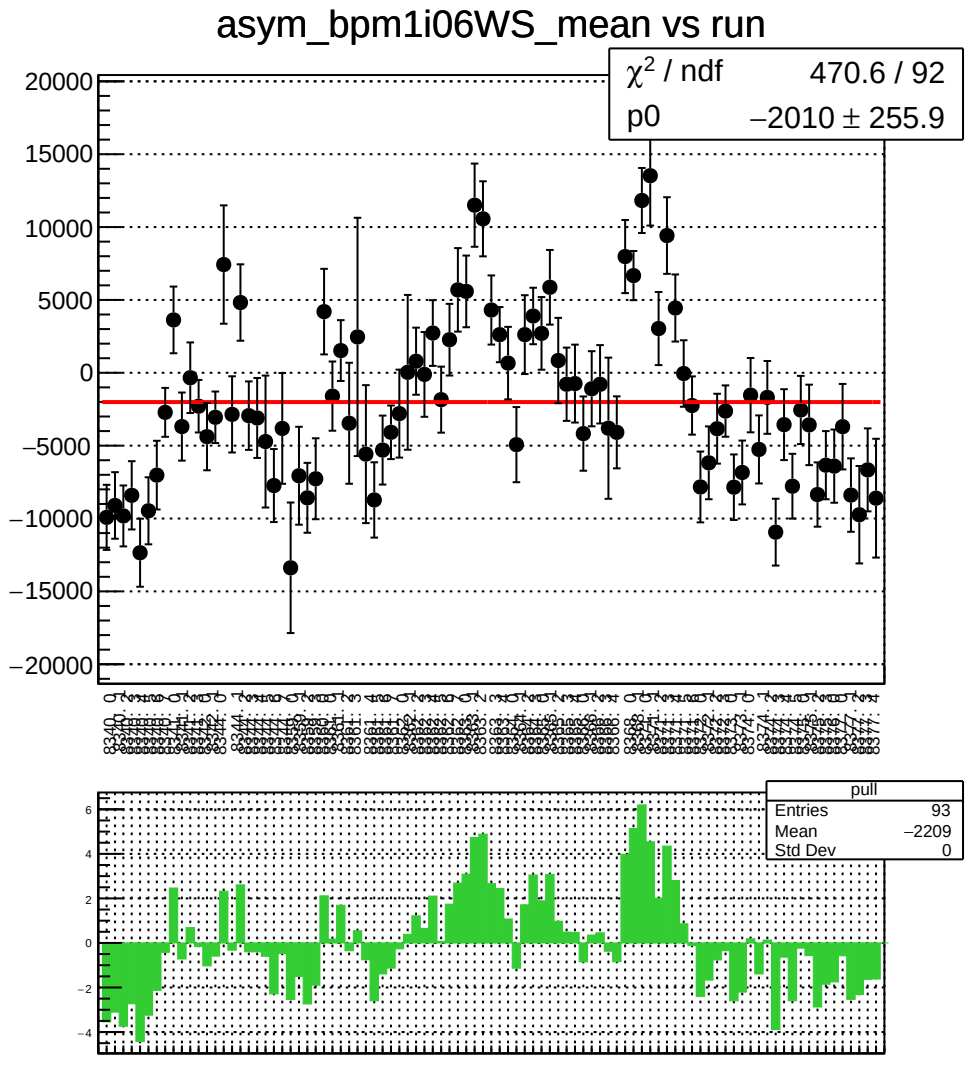

pull1D
Entries 93
Mean −0.01957
Std Dev 2.168
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

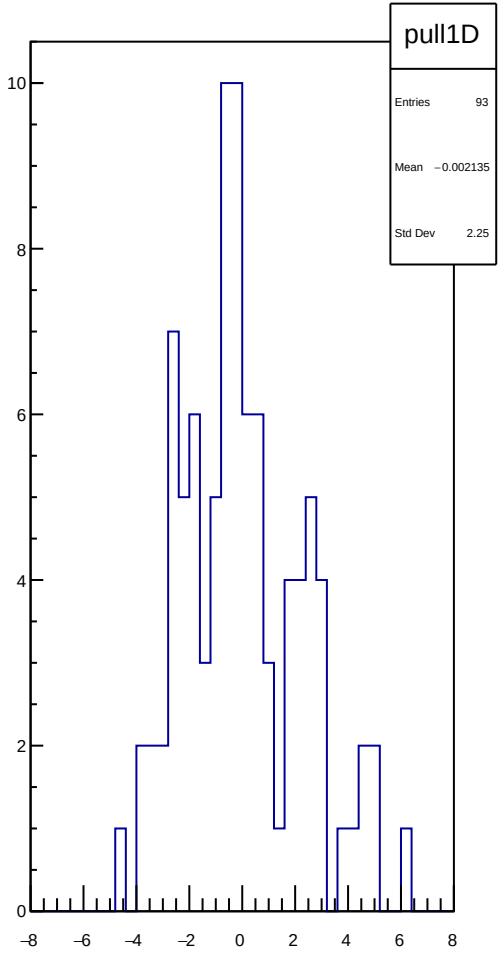

asym_bpm1i02WS_rms vs run
χ² / ndf 7.114e+04 / 92
p0 202.1 ± 0.1522
700
600
500
400
300
200

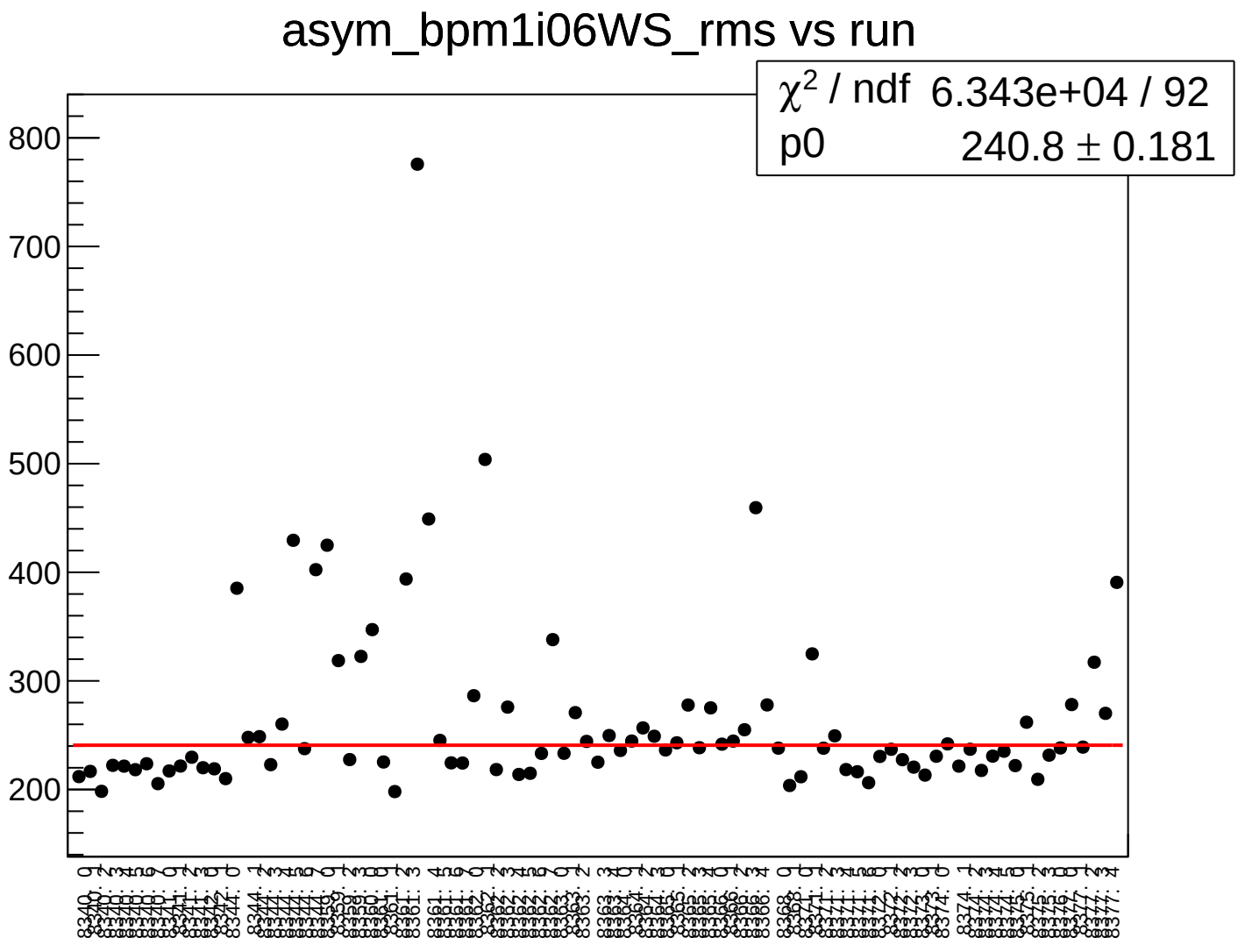

asym_bpm1i04WS_mean vs run
χ² / ndf 441.6 / 92
p0 −387.4 ± 202.1
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 77.11
Std Dev 0
6
4
2
0
−2
−4

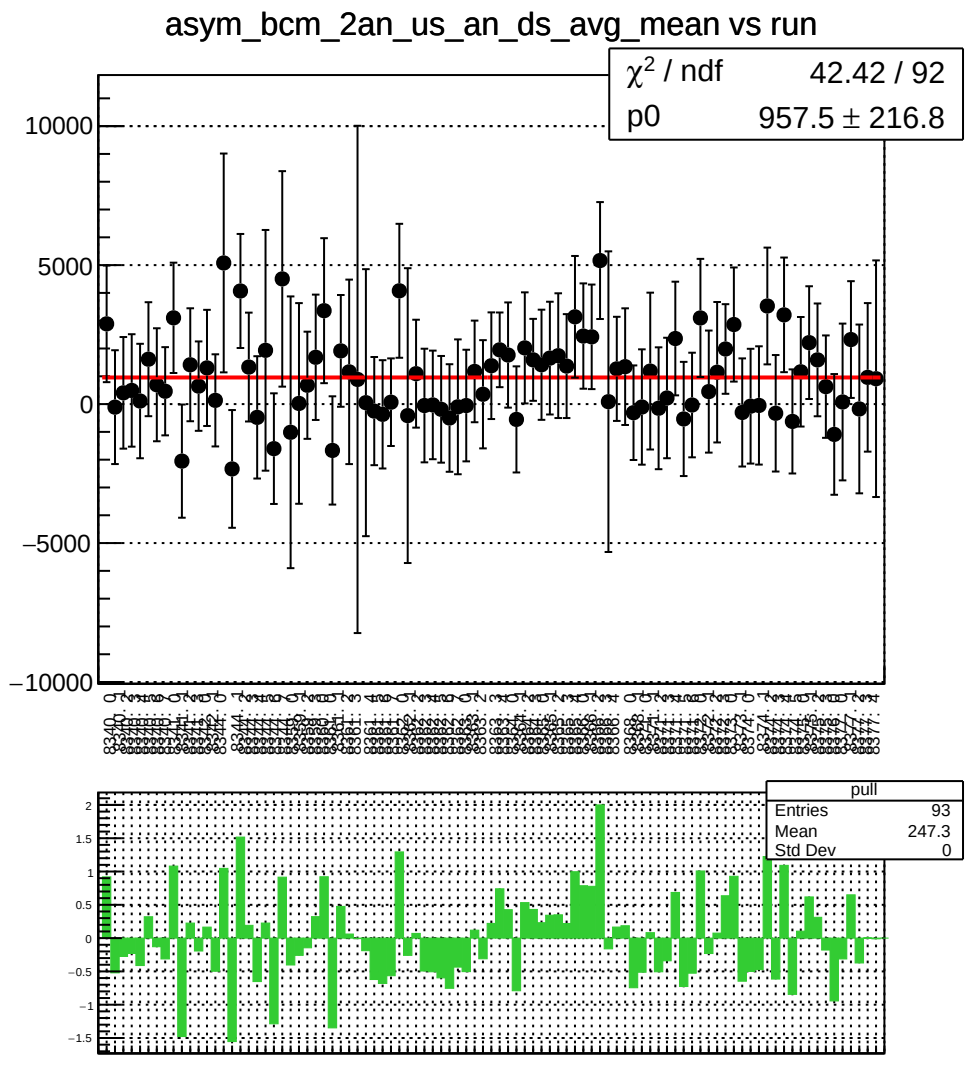

pull1D
Entries 93
Mean 0.02547
Std Dev 2.179
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

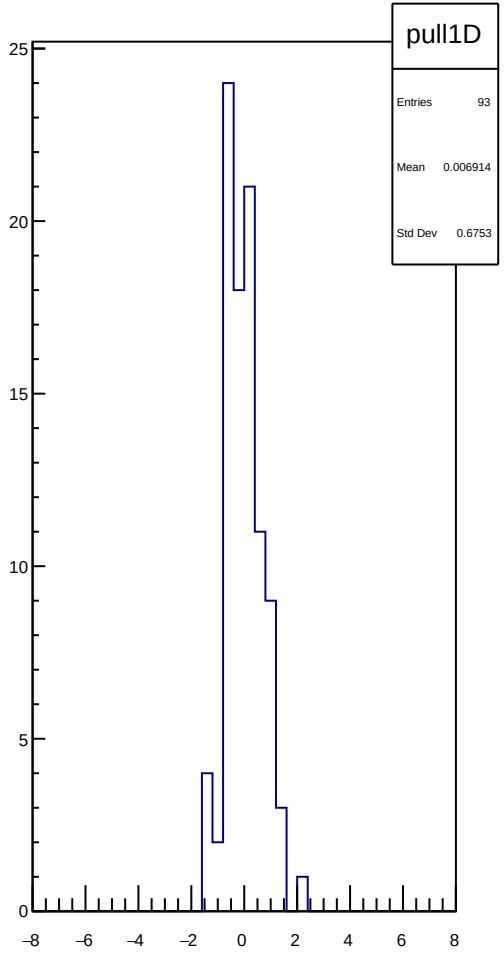

asym_bpm1i04WS_rms vs run
χ² / ndf 7.721e+04 / 92
p0 189.4 ± 0.1429
700
600
500
400
300
200

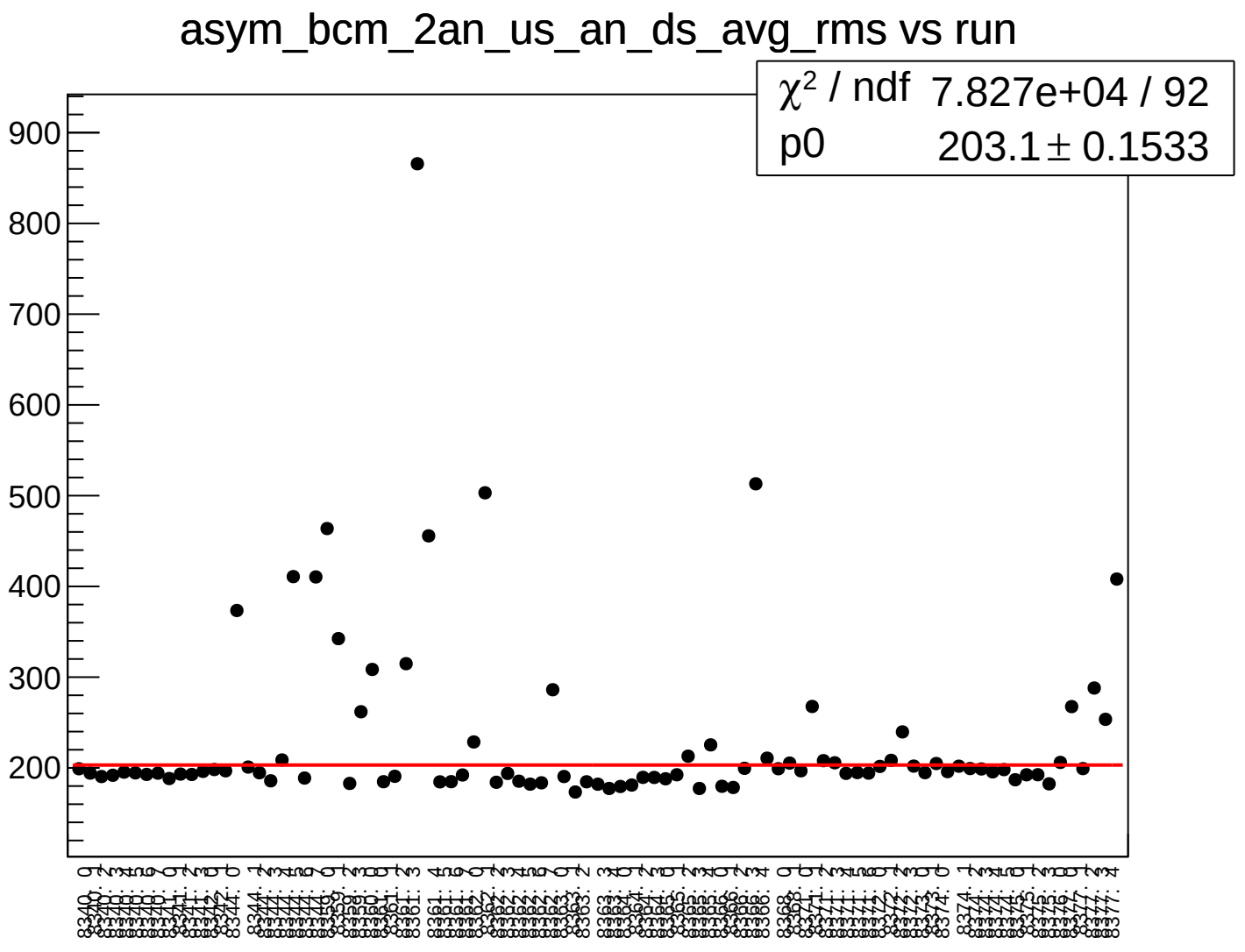

asym_bpm1i06WS_mean vs run
χ² / ndf 470.6 / 92
p0 −2010 ± 255.9
pull
Entries 93
Mean −2209
Std Dev 0

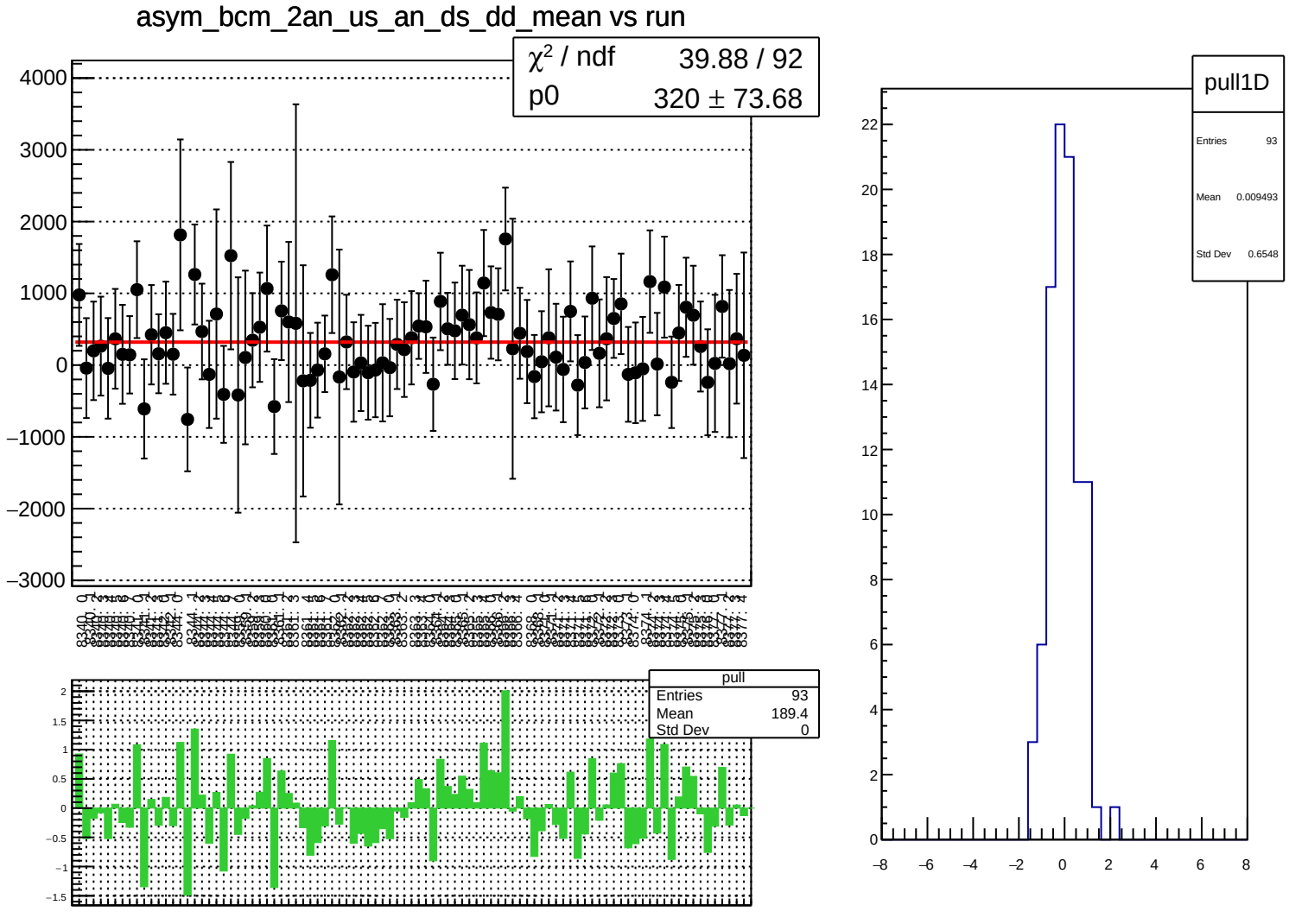

pull1D
Entries 93
Mean −0.002135
Std Dev 2.25

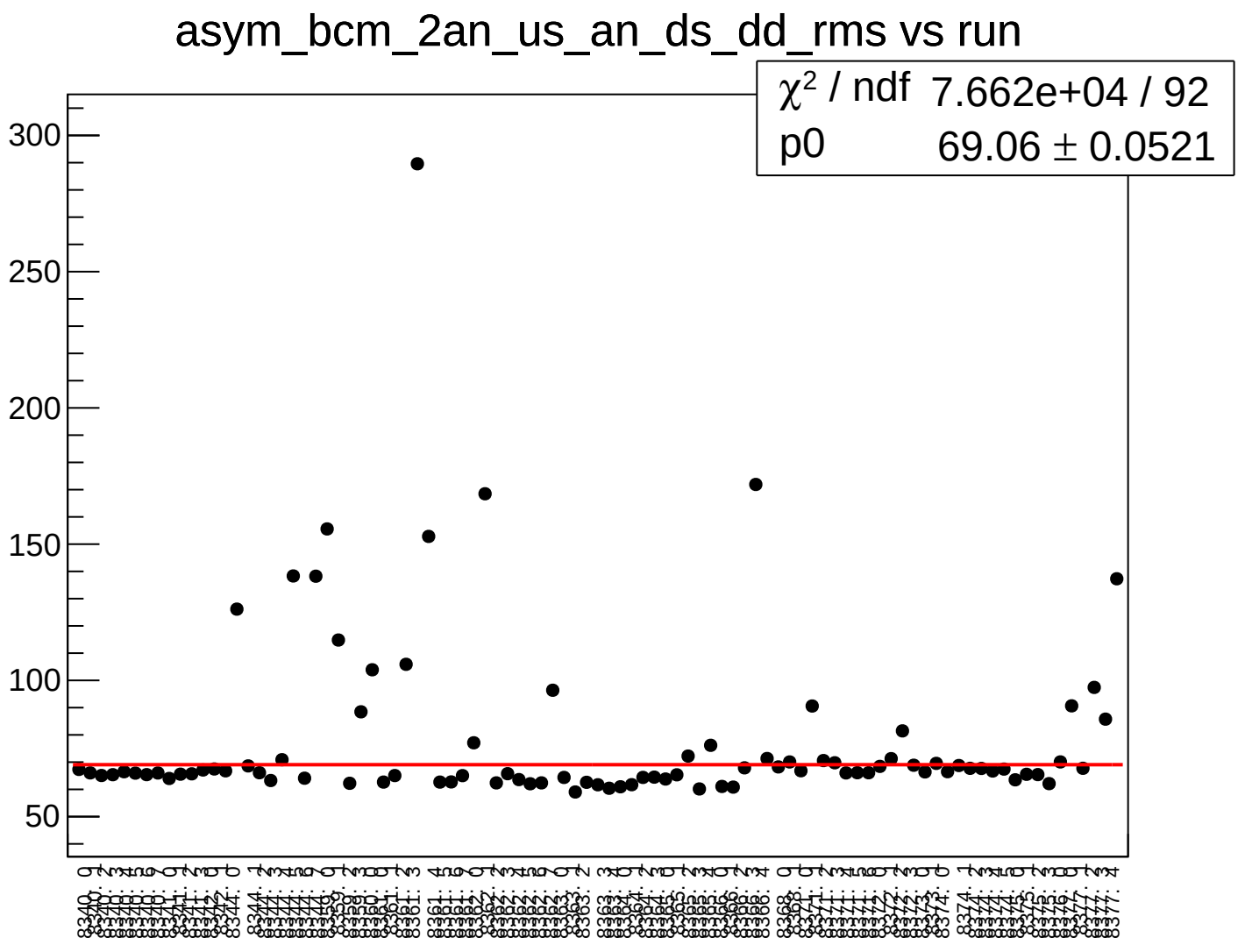

asym_bpm1i06WS_rms vs run
χ^2 / ndf 6.343e+04 / 92
p0 240.8 ± 0.181
800
700
600
500
400
300
200

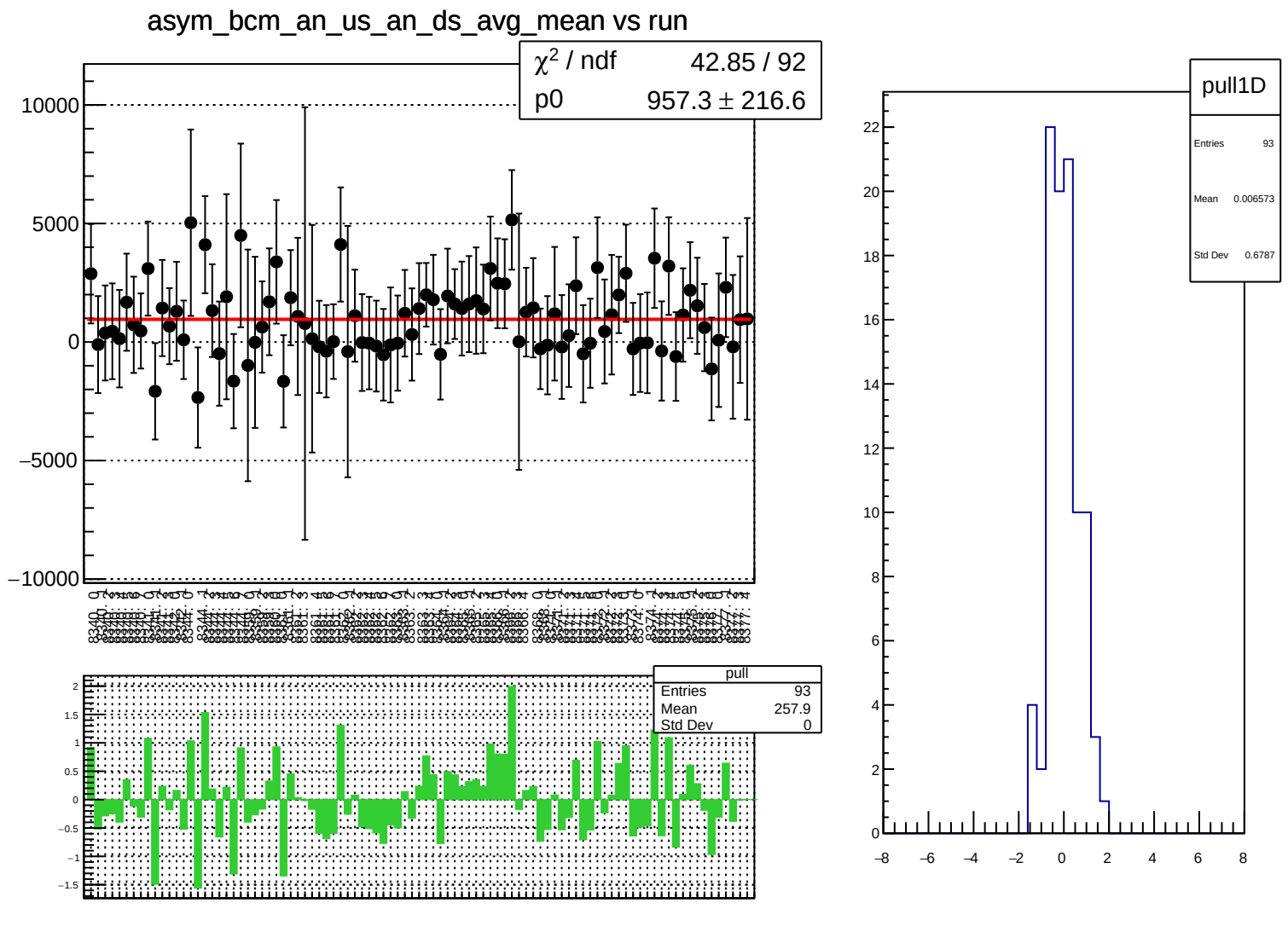

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 42.42 / 92
p0 957.5 ± 216.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 247.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

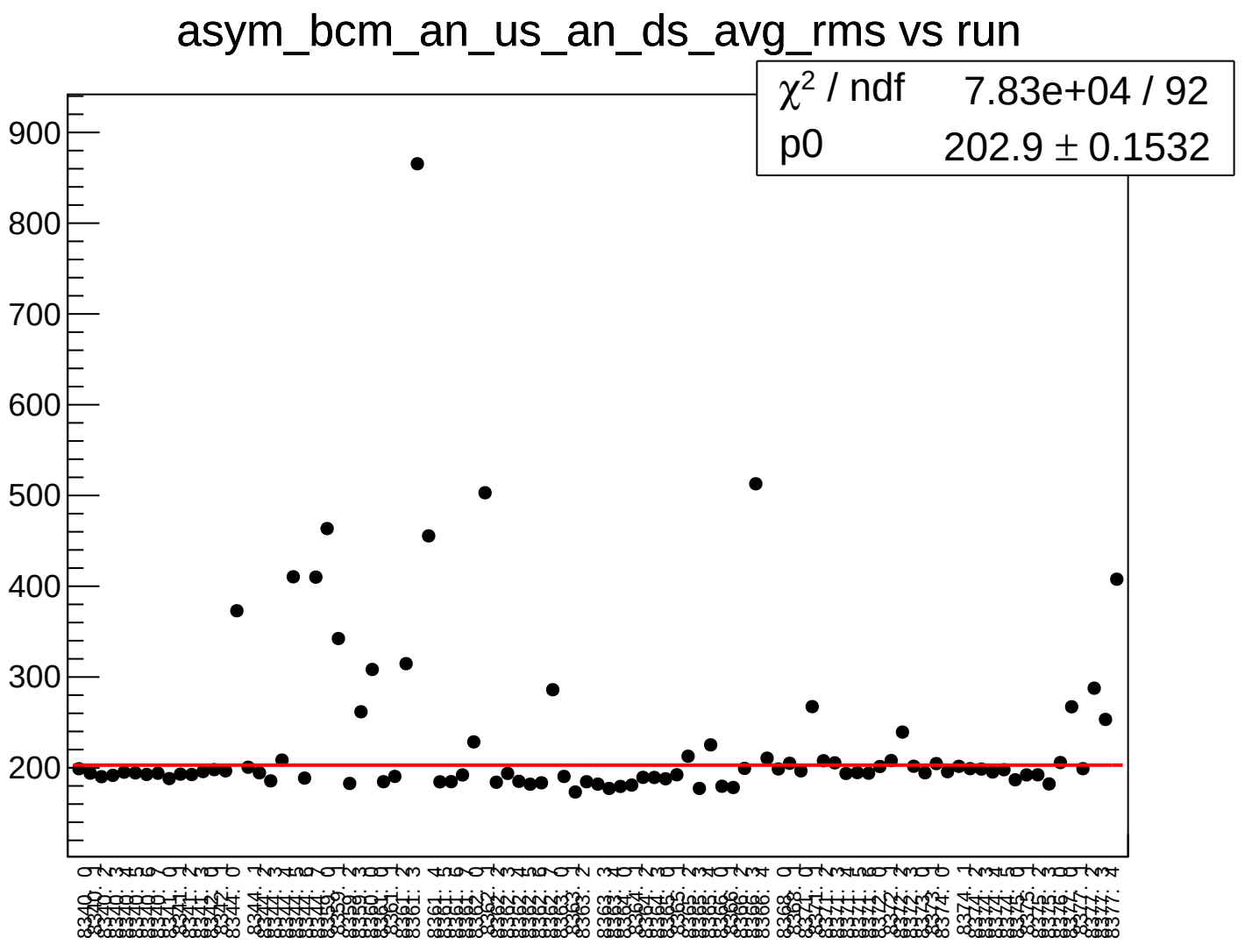

pull1D
Entries 93
Mean 0.006914
Std Dev 0.6753
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

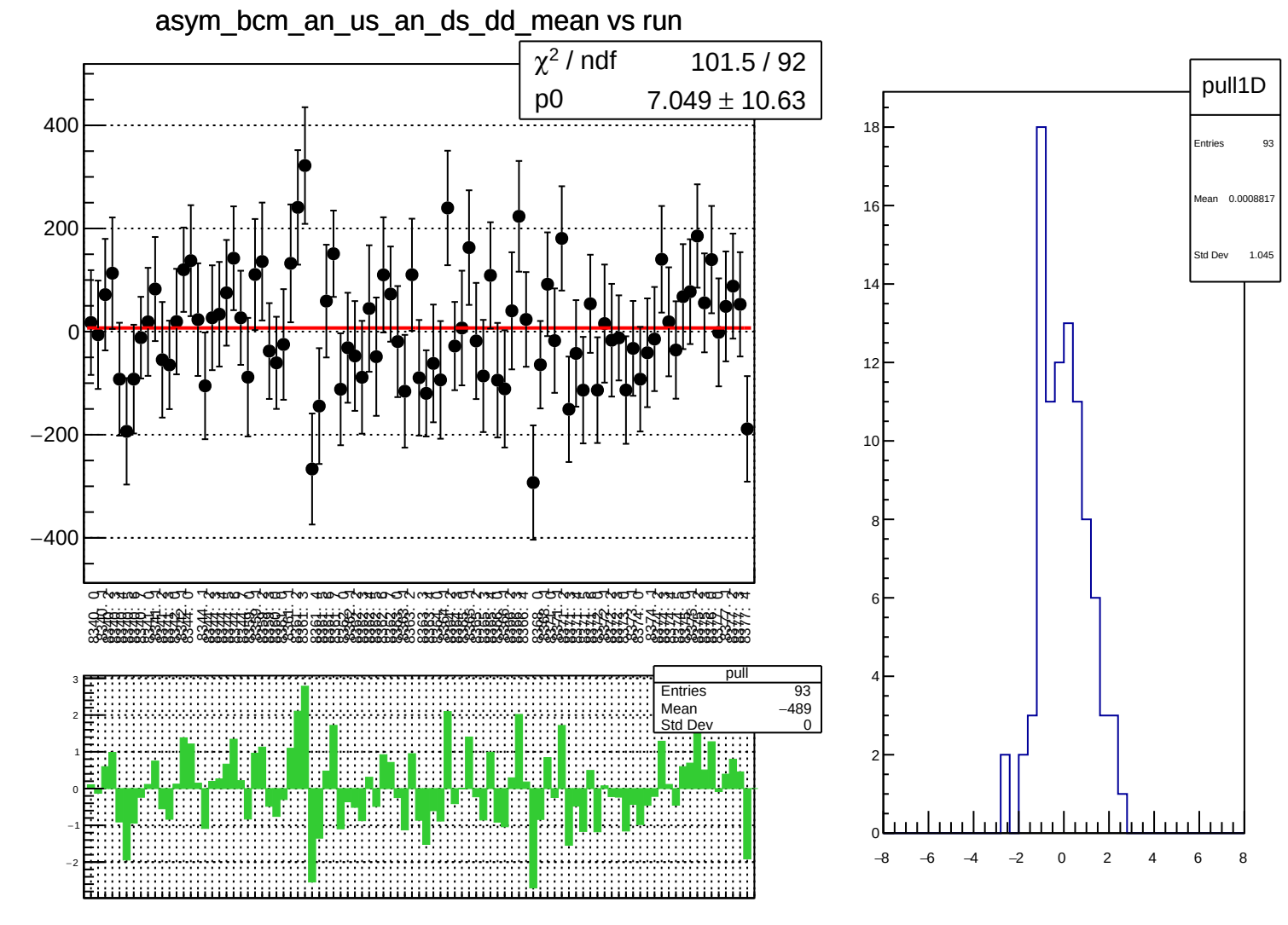

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 7.827e+04 / 92
p0 203.1 ± 0.1533
900
800
700
600
500
400
300
200

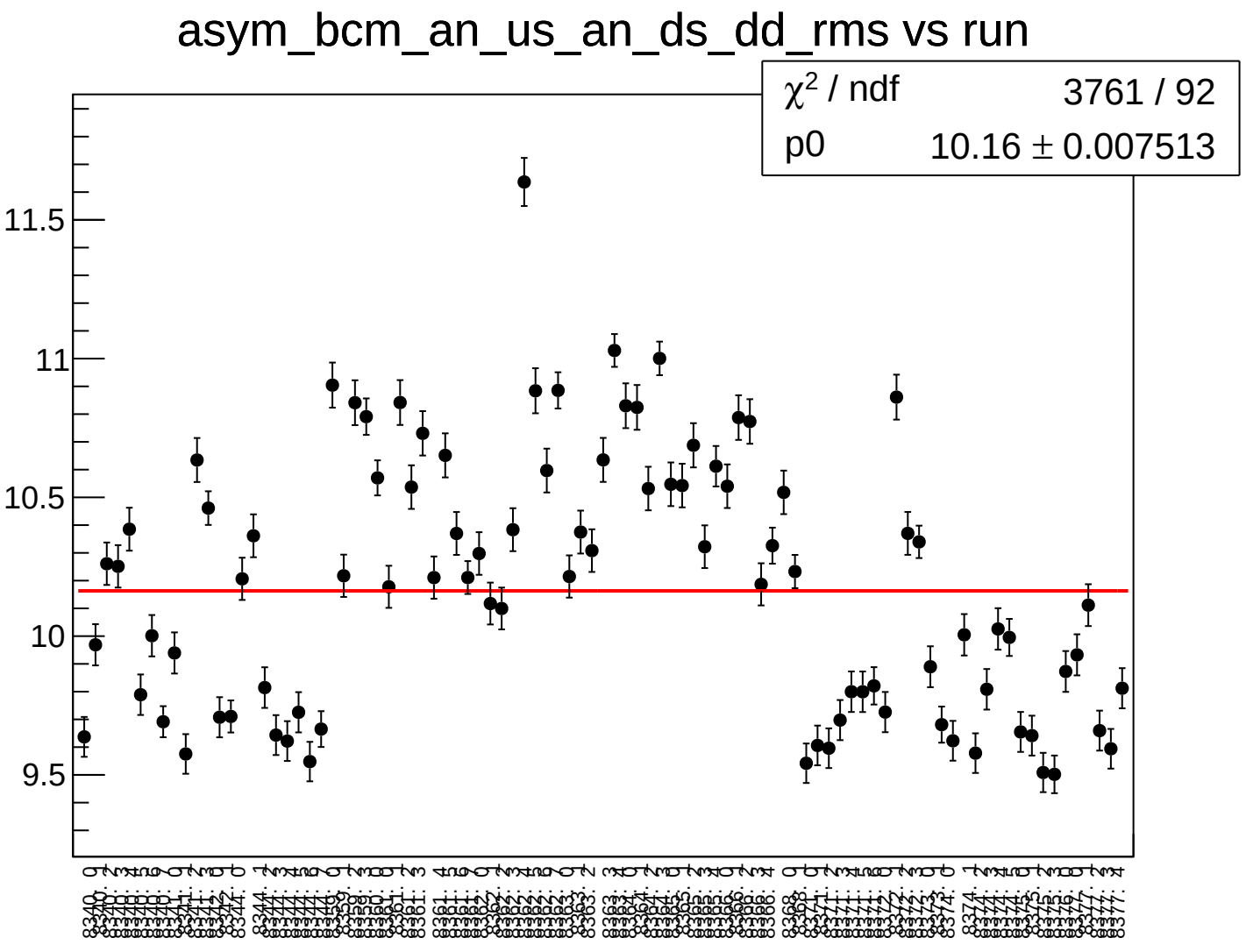

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 39.88 / 92
p0 320 ± 73.68
pull
Entries 93
Mean 189.4
Std Dev 0
pull1D
Entries 93
Mean 0.009493
Std Dev 0.6548

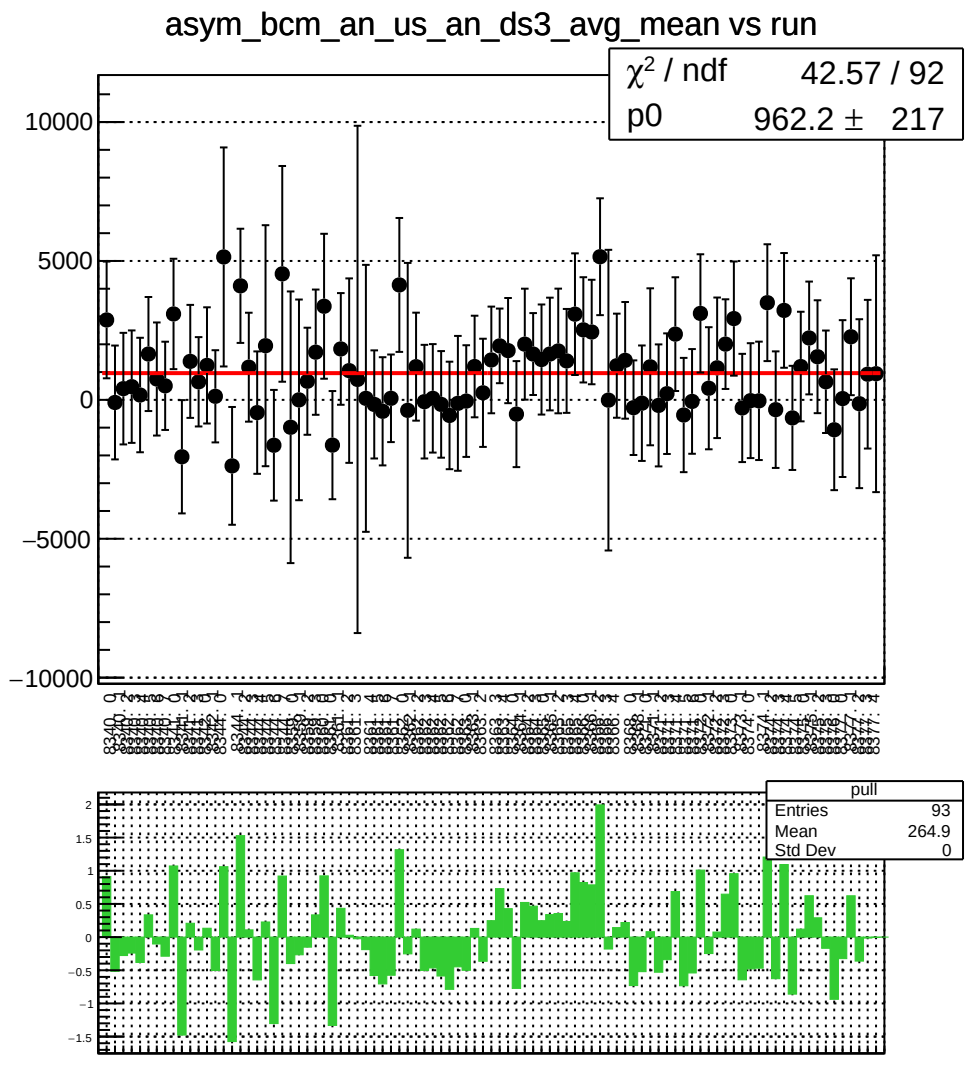

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 7.662e+04 / 92
p0 69.06 ± 0.0521
300
250
200
150
100
50

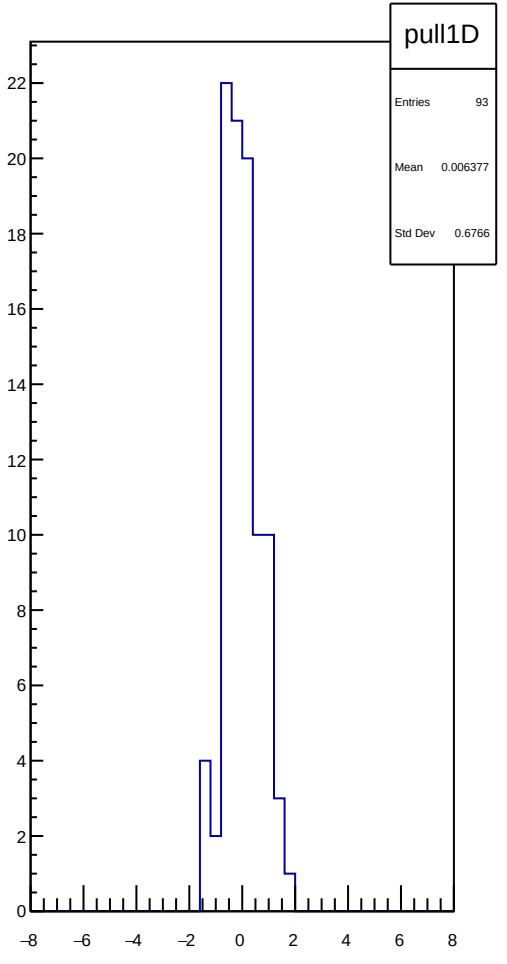

asym_bcm_an_us_an_ds_avg_mean vs run
χ^2 / ndf 42.85 / 92
p0 957.3 ± 216.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 257.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.006573
Std Dev 0.6787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

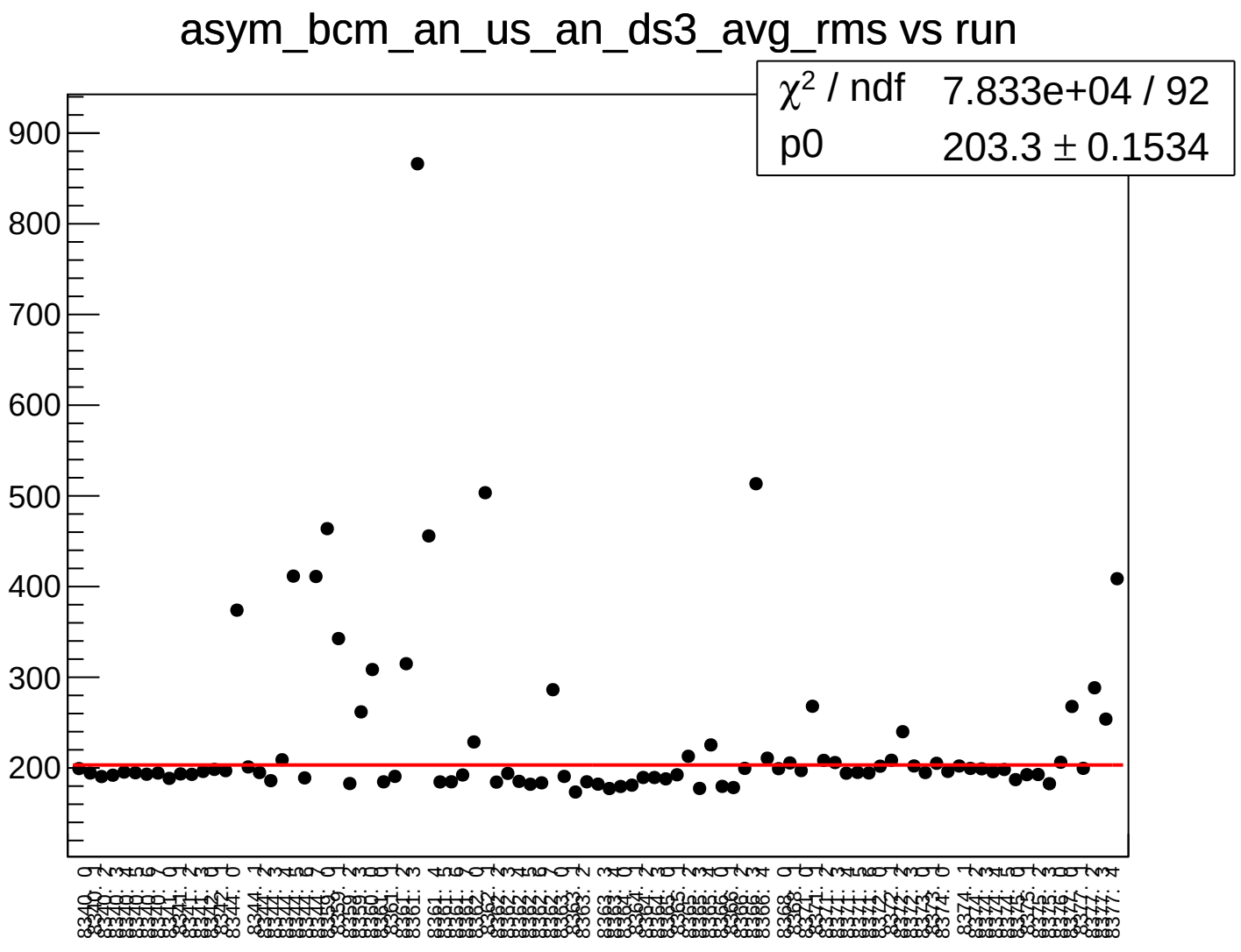

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 7.83e+04 / 92
p0 202.9 ± 0.1532
900
800
700
600
500
400
300
200

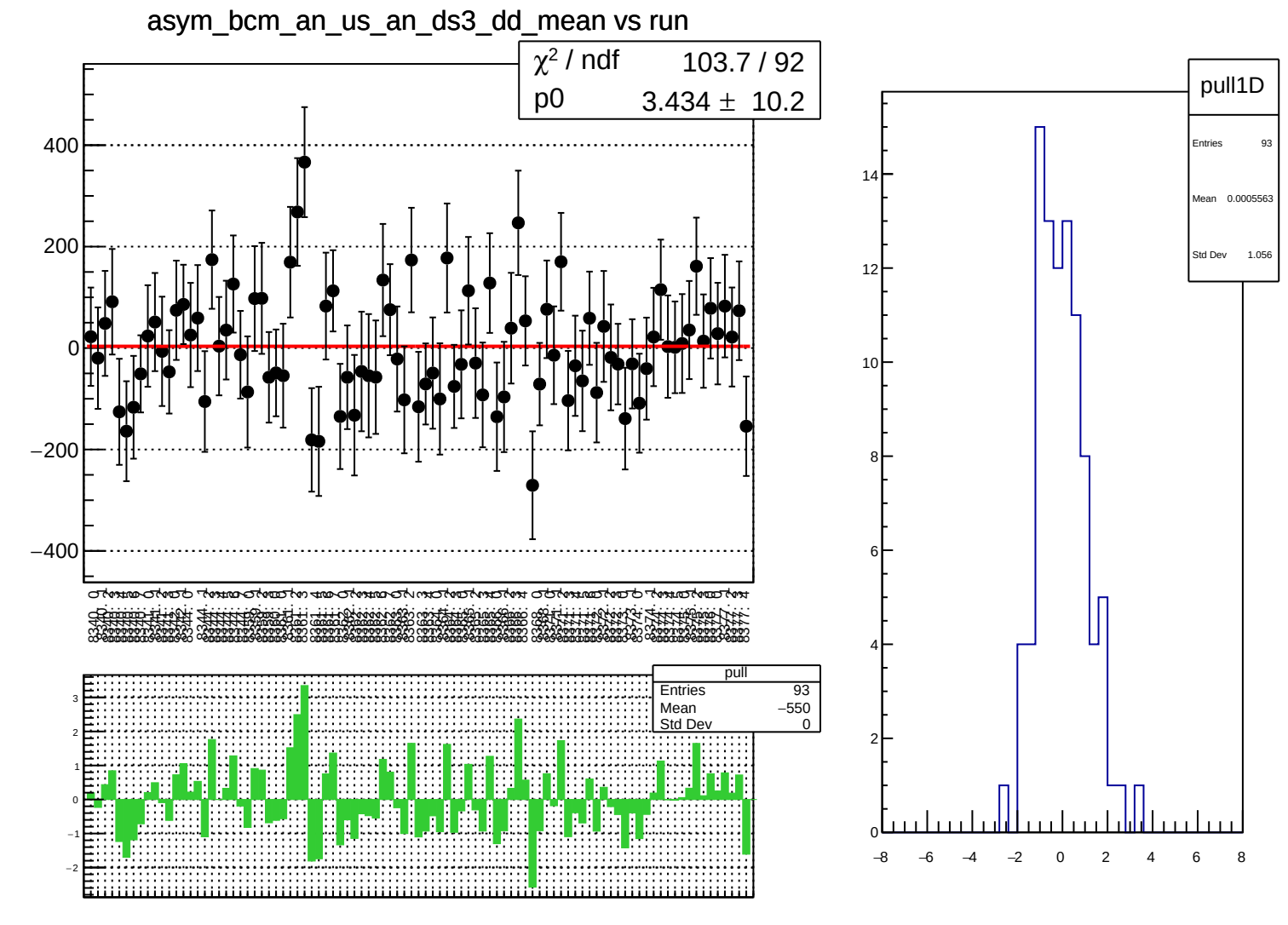

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 101.5 / 92
p0 7.049 ± 10.63
400
200
0
−200
−400
pull
Entries 93
Mean −489
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0008817
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

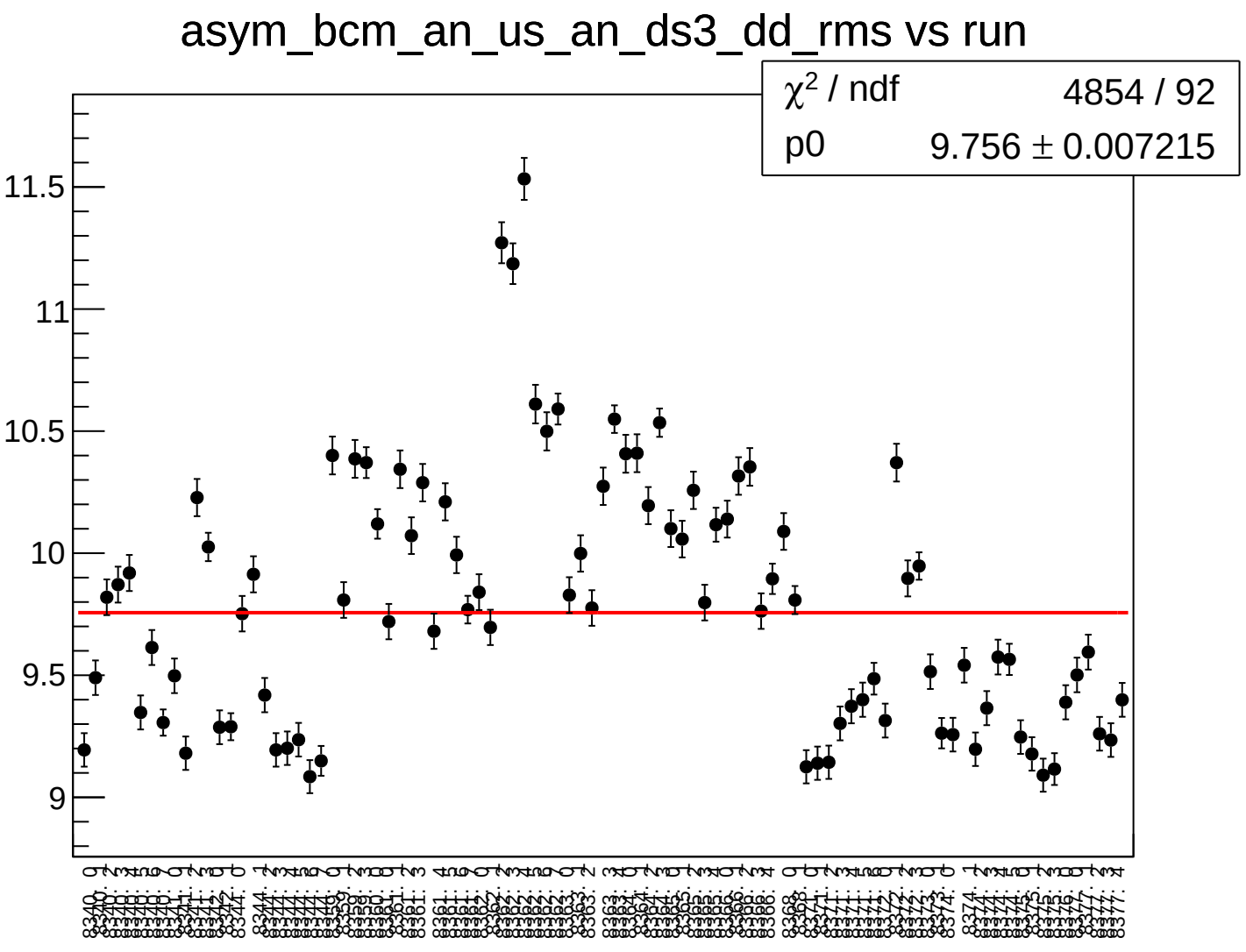

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 3761 / 92
p0 10.16 ± 0.007513
11.5
11
10.5
10
9.5

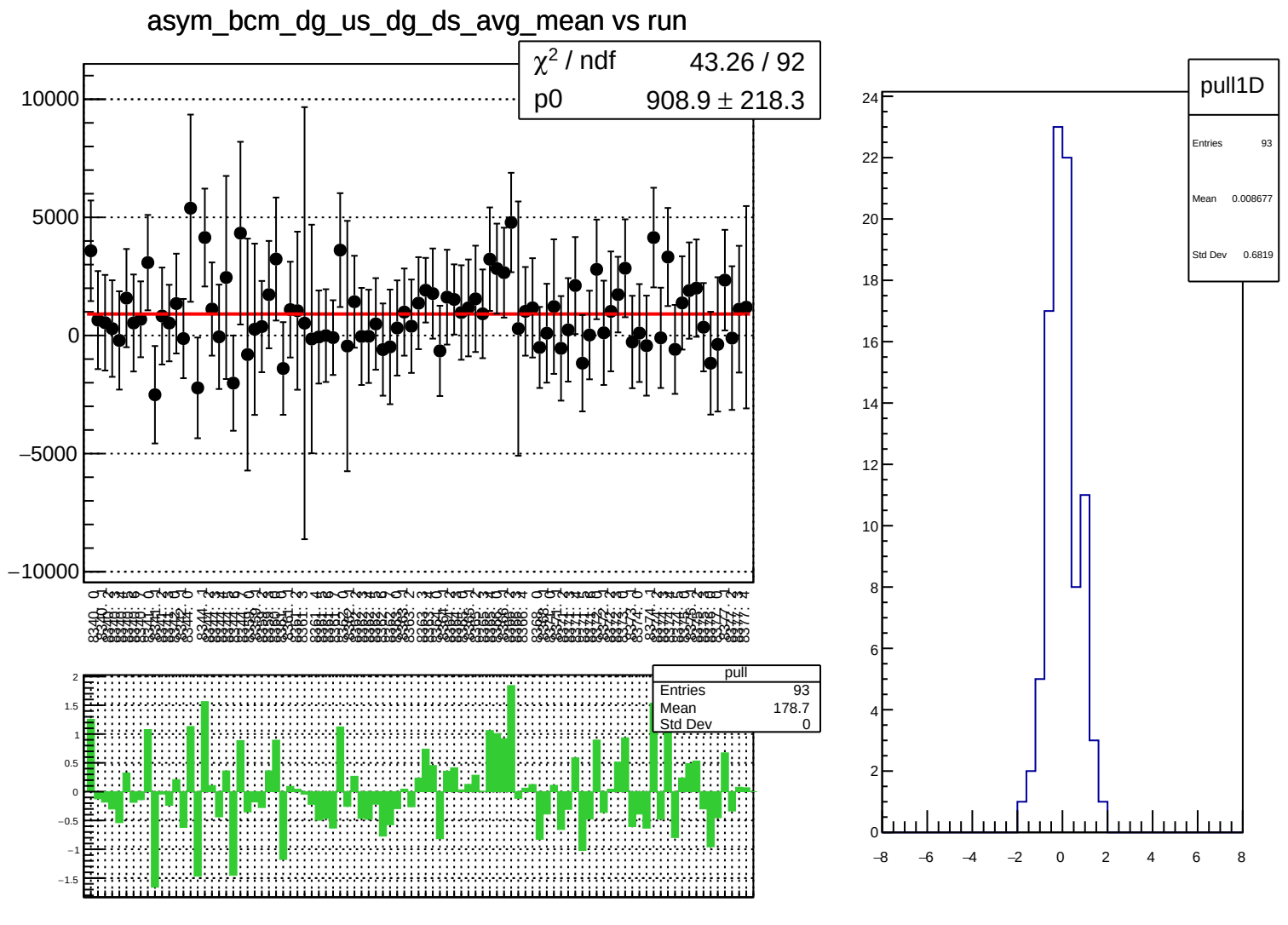

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 42.57 / 92
p0 962.2 ± 217
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 264.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

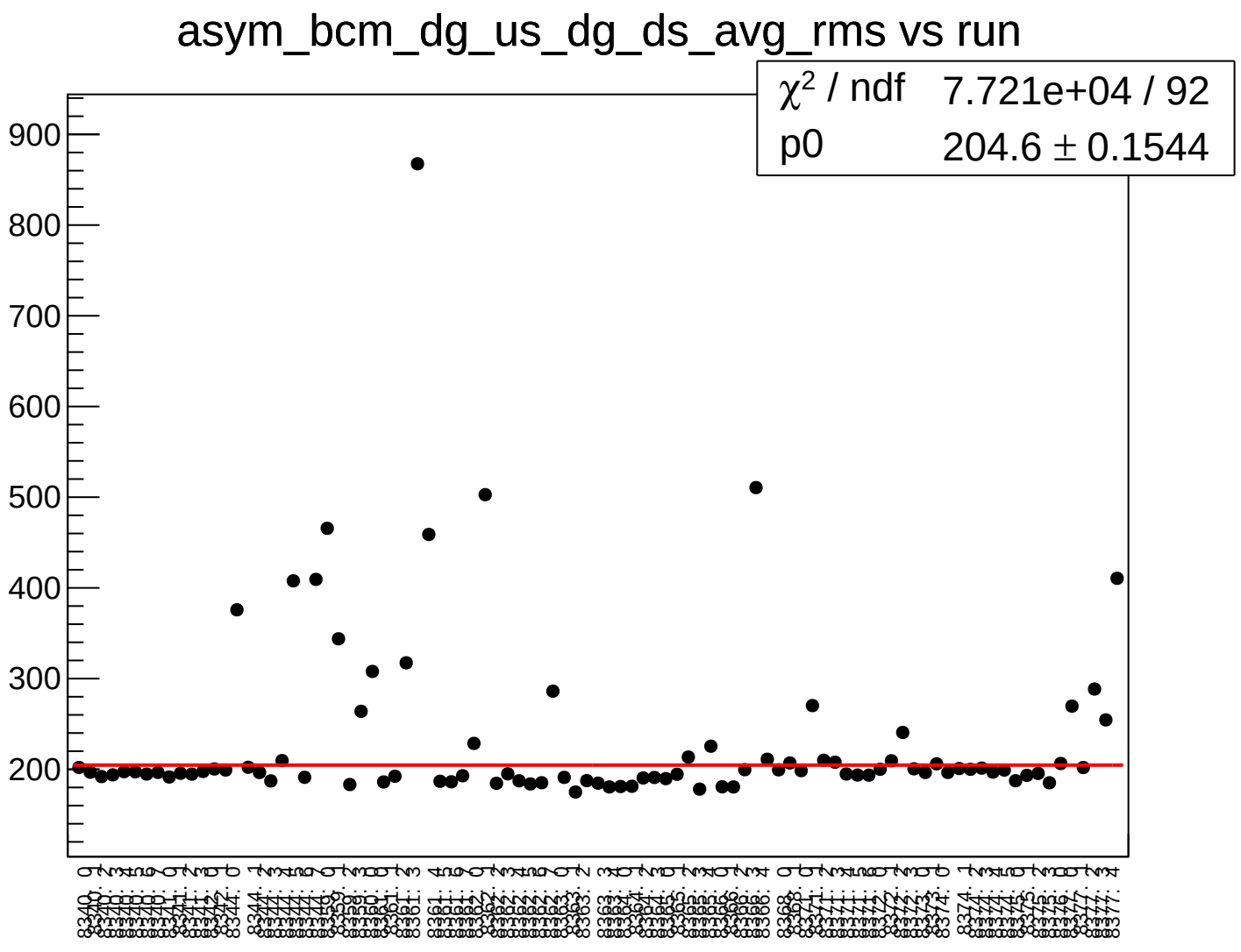

pull1D
Entries 93
Mean 0.006377
Std Dev 0.6766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

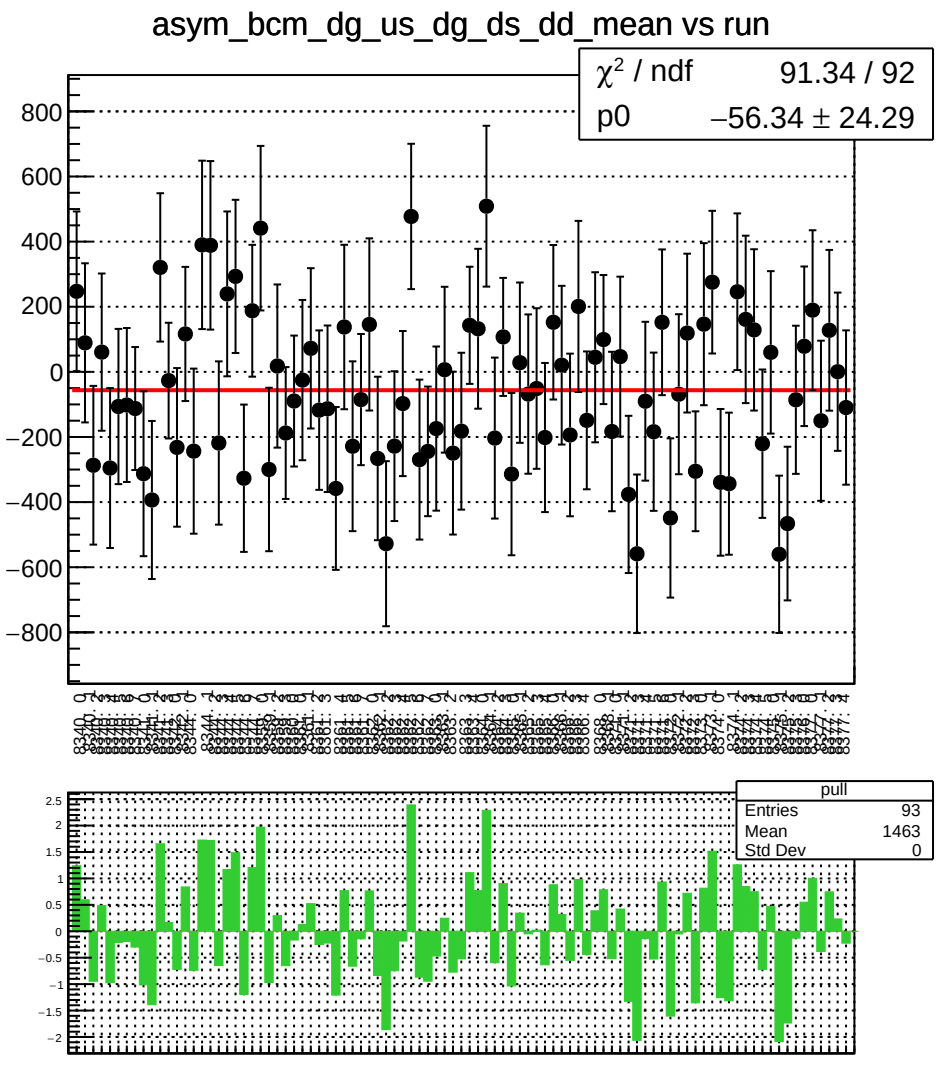

asym_bcm_an_us_an_ds3_avg_rms vs run
χ^2 / ndf 7.833e+04 / 92
p0 203.3 ± 0.1534
900
800
700
600
500
400
300
200

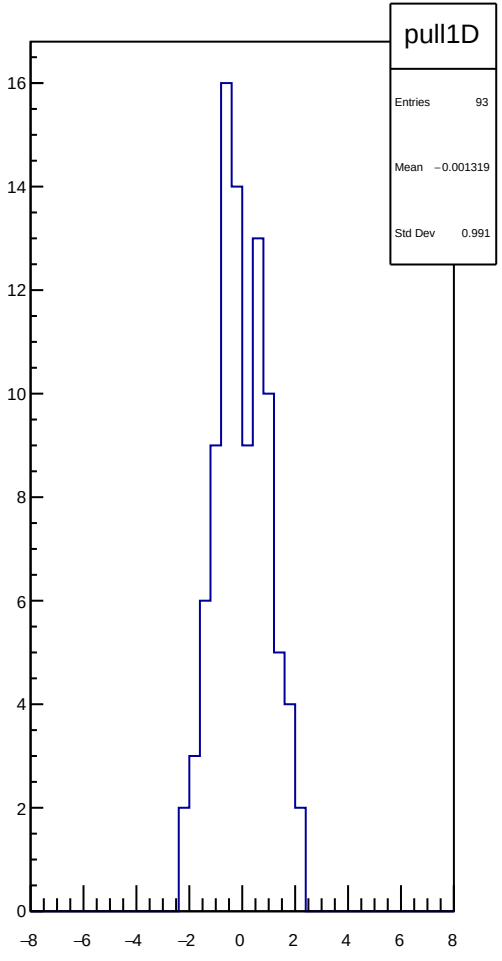

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 103.7 / 92
p0 3.434 ± 10.2
400
200
0
−200
−400
pull
Entries 93
Mean −550
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0005563
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

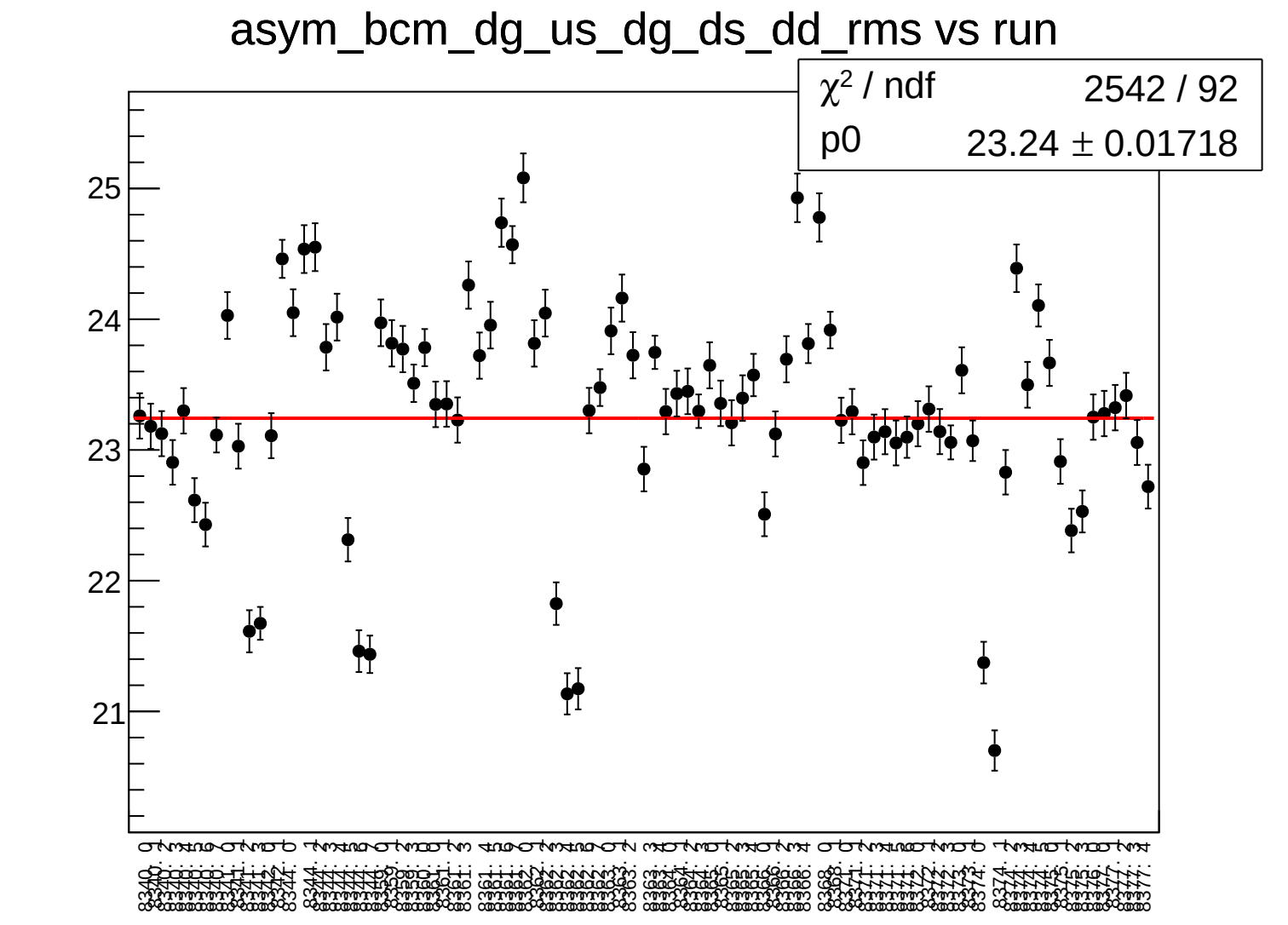

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 4854 / 92
p0 9.756 ± 0.007215
11.5
11
10.5
10
9.5
9

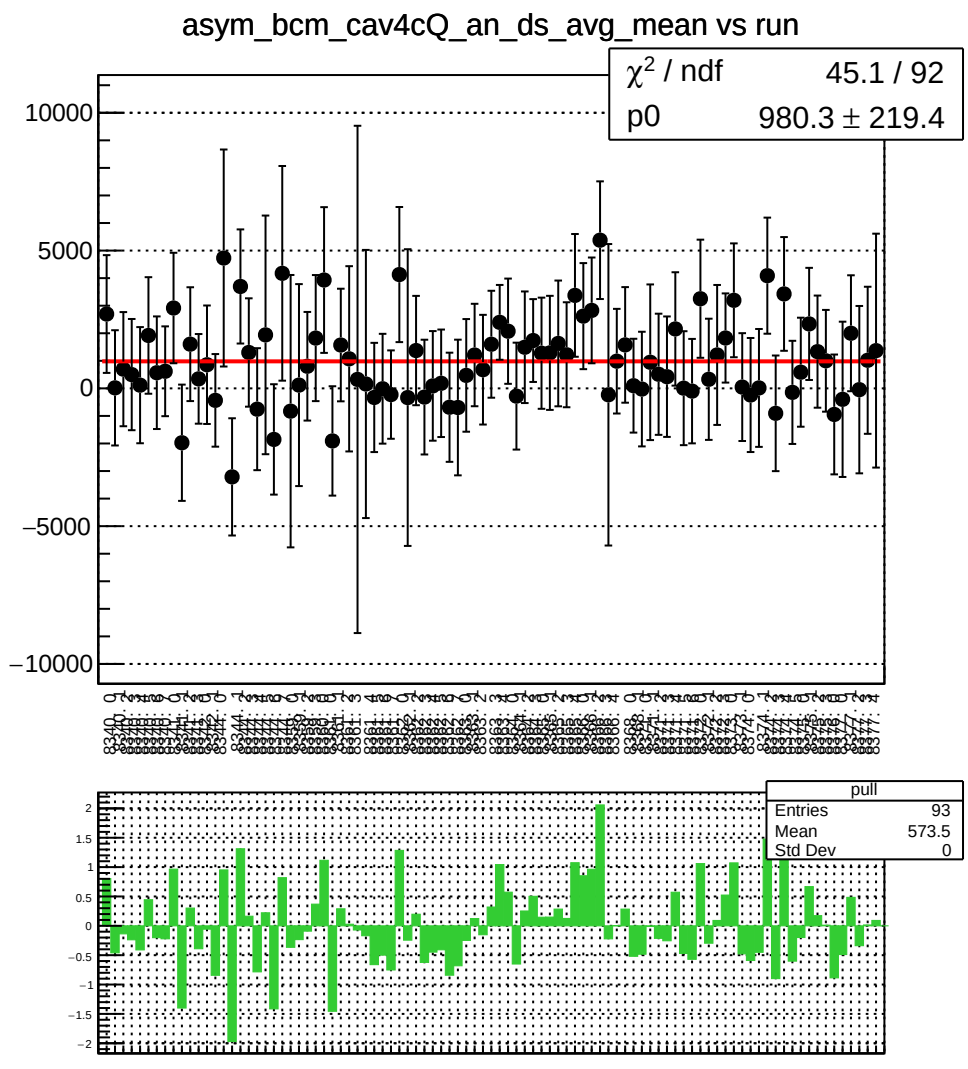

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 43.26 / 92
p0 908.9 ± 218.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 178.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.008677
Std Dev 0.6819
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

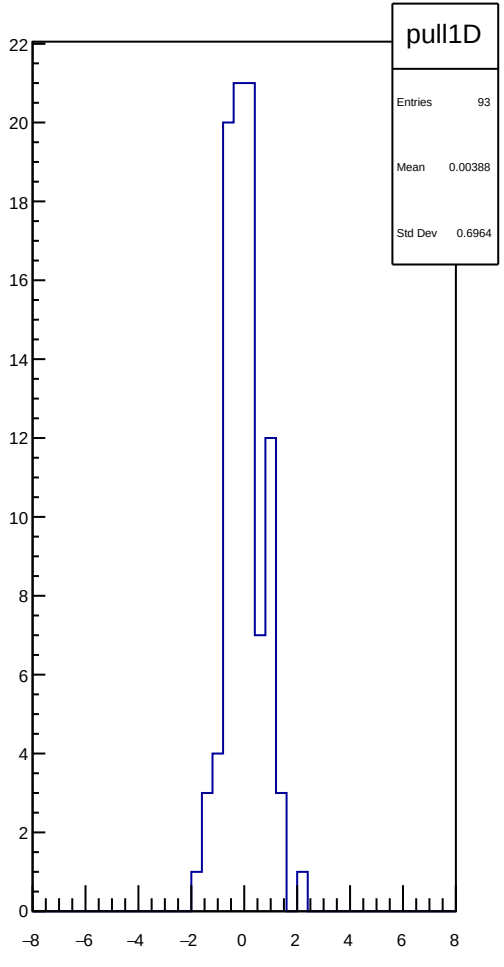

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 7.721e+04 / 92
p0 204.6 ± 0.1544
900
800
700
600
500
400
300
200

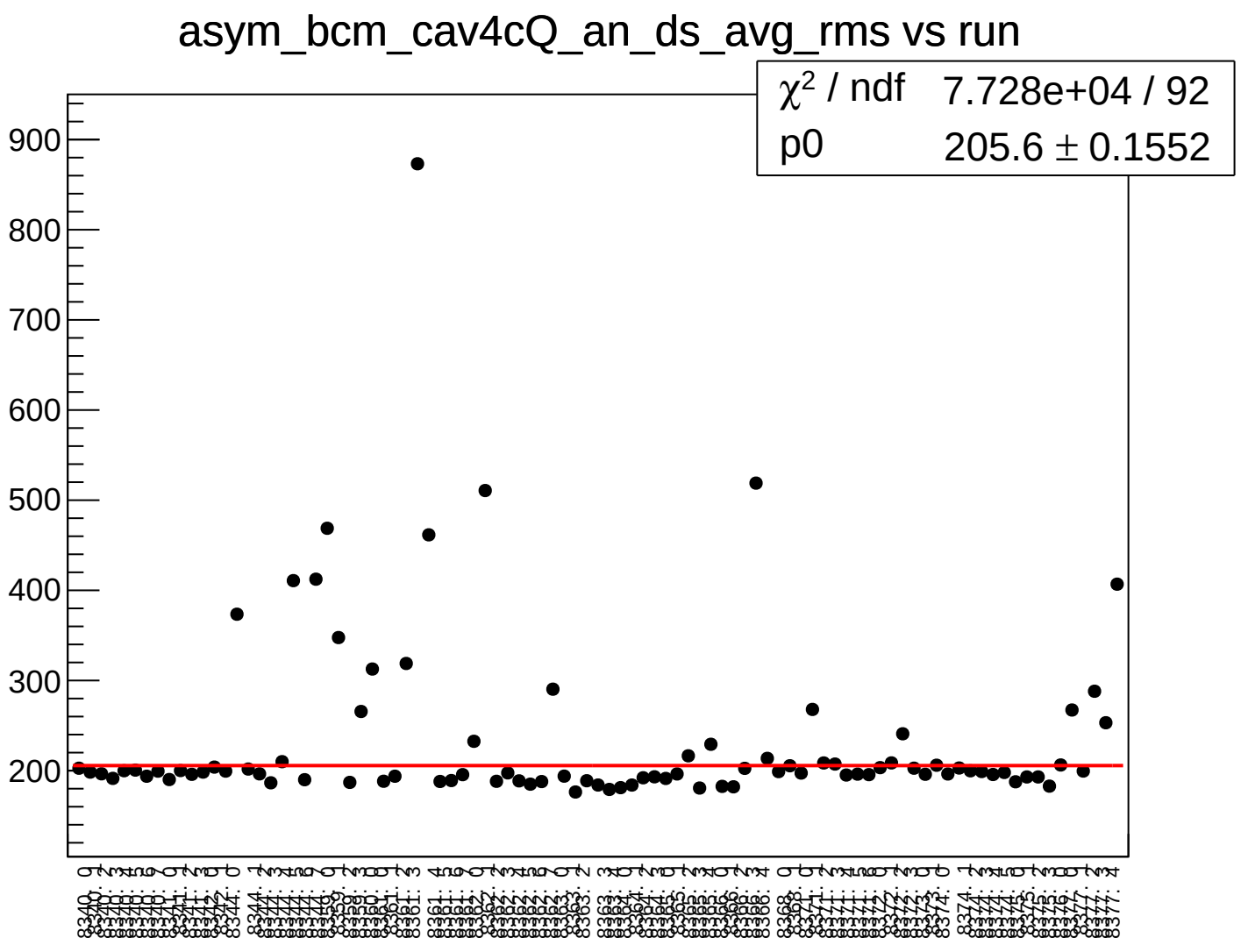

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 91.34 / 92
p0 −56.34 ± 24.29
pull
Entries 93
Mean 1463
Std Dev 0

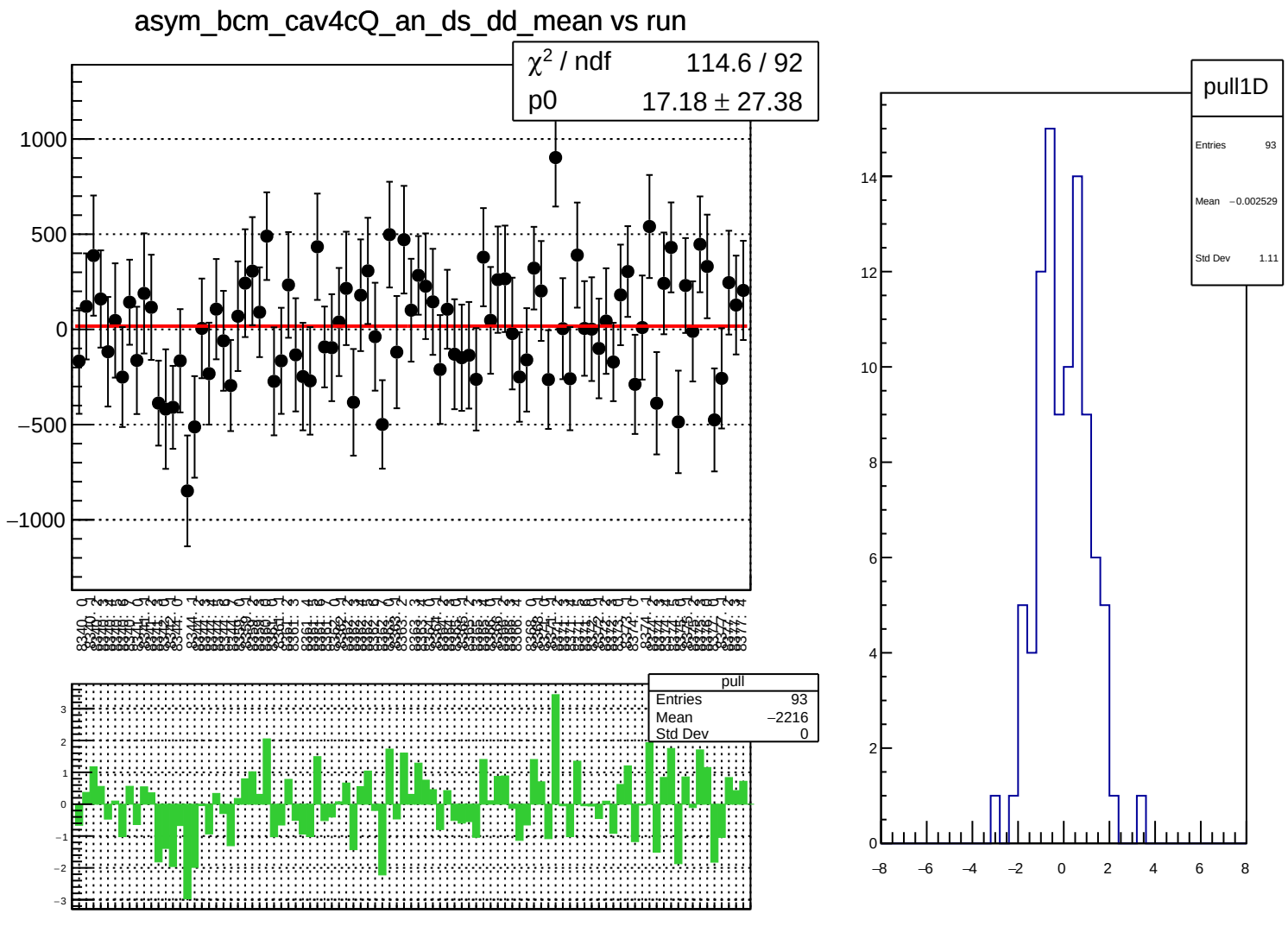

pull1D
Entries 93
Mean −0.001319
Std Dev 0.991

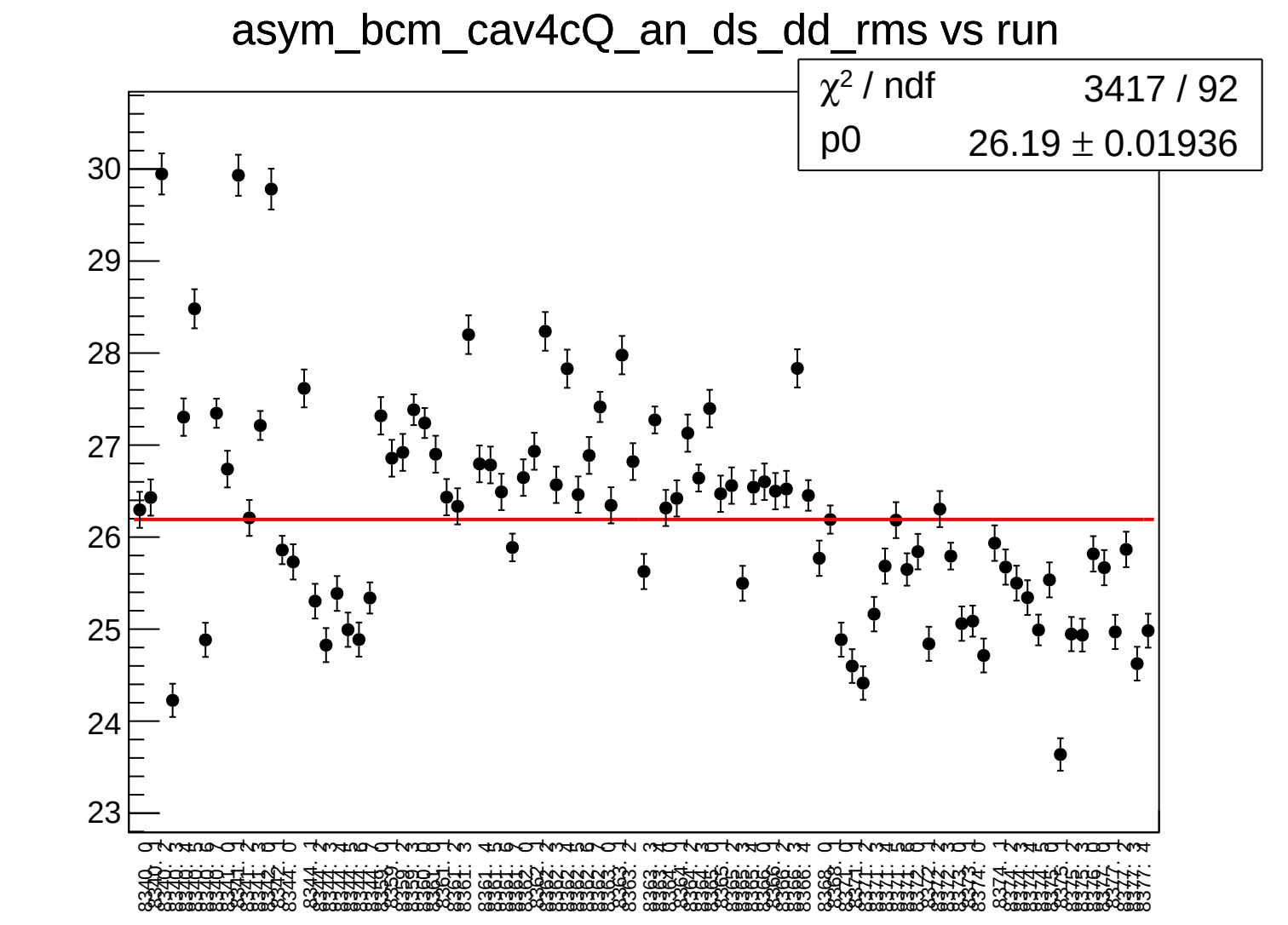

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2542 / 92
p0 23.24 ± 0.01718
25
24
23
22
21

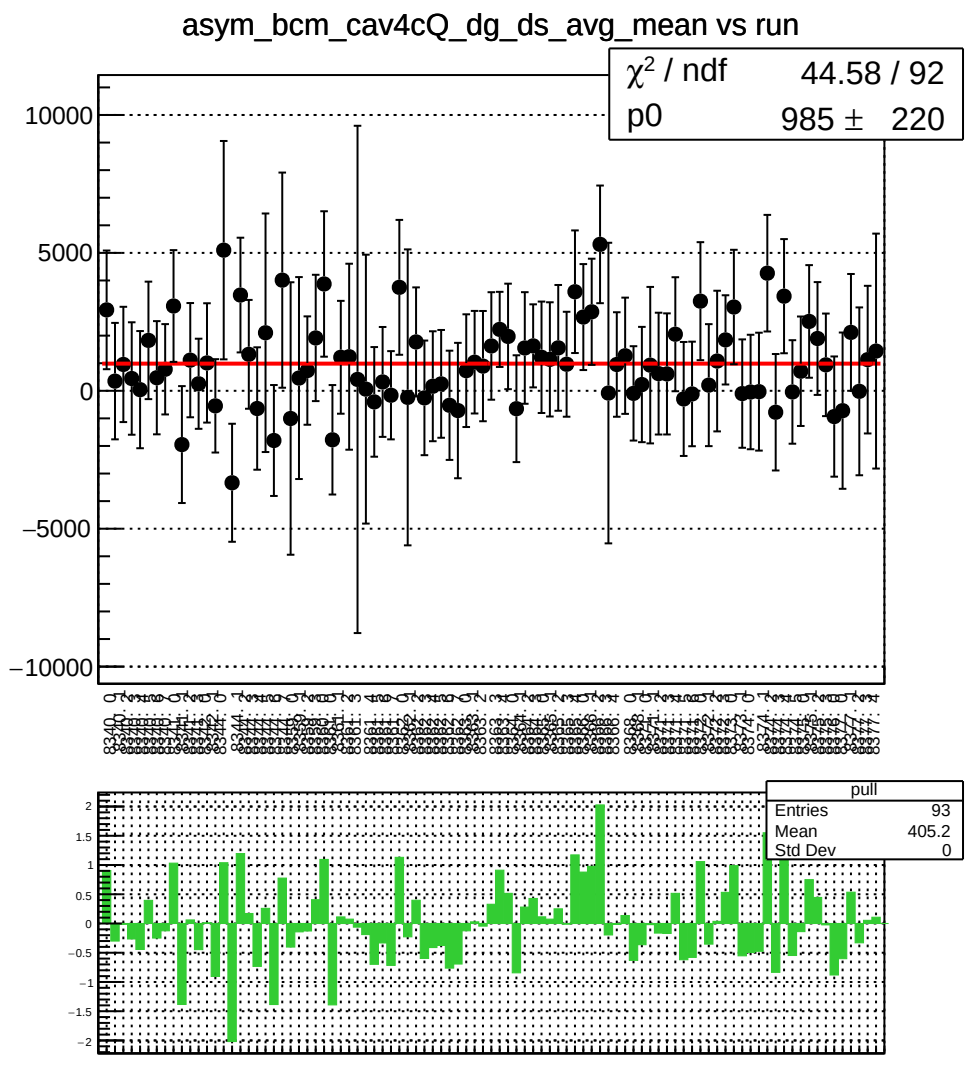

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 45.1 / 92
p0 980.3 ± 219.4
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 573.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

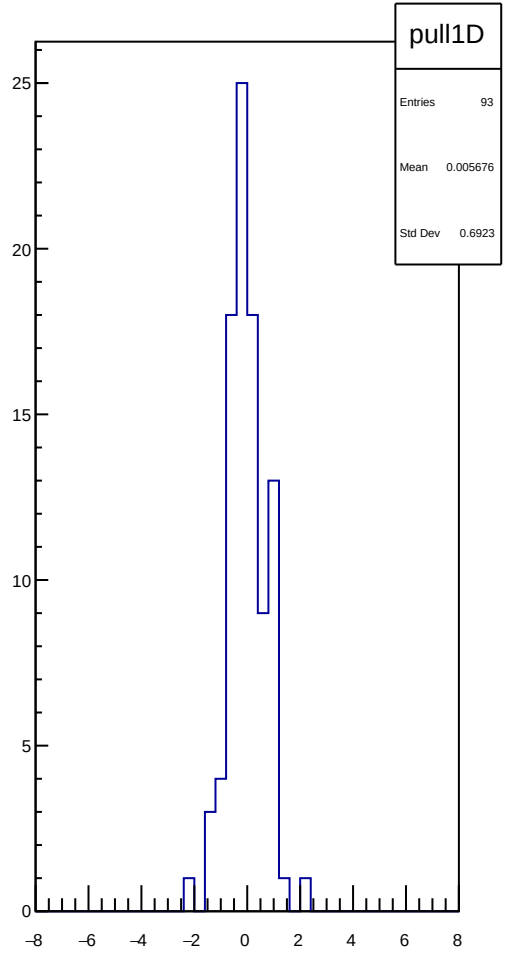

pull1D
Entries 93
Mean 0.00388
Std Dev 0.6964
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

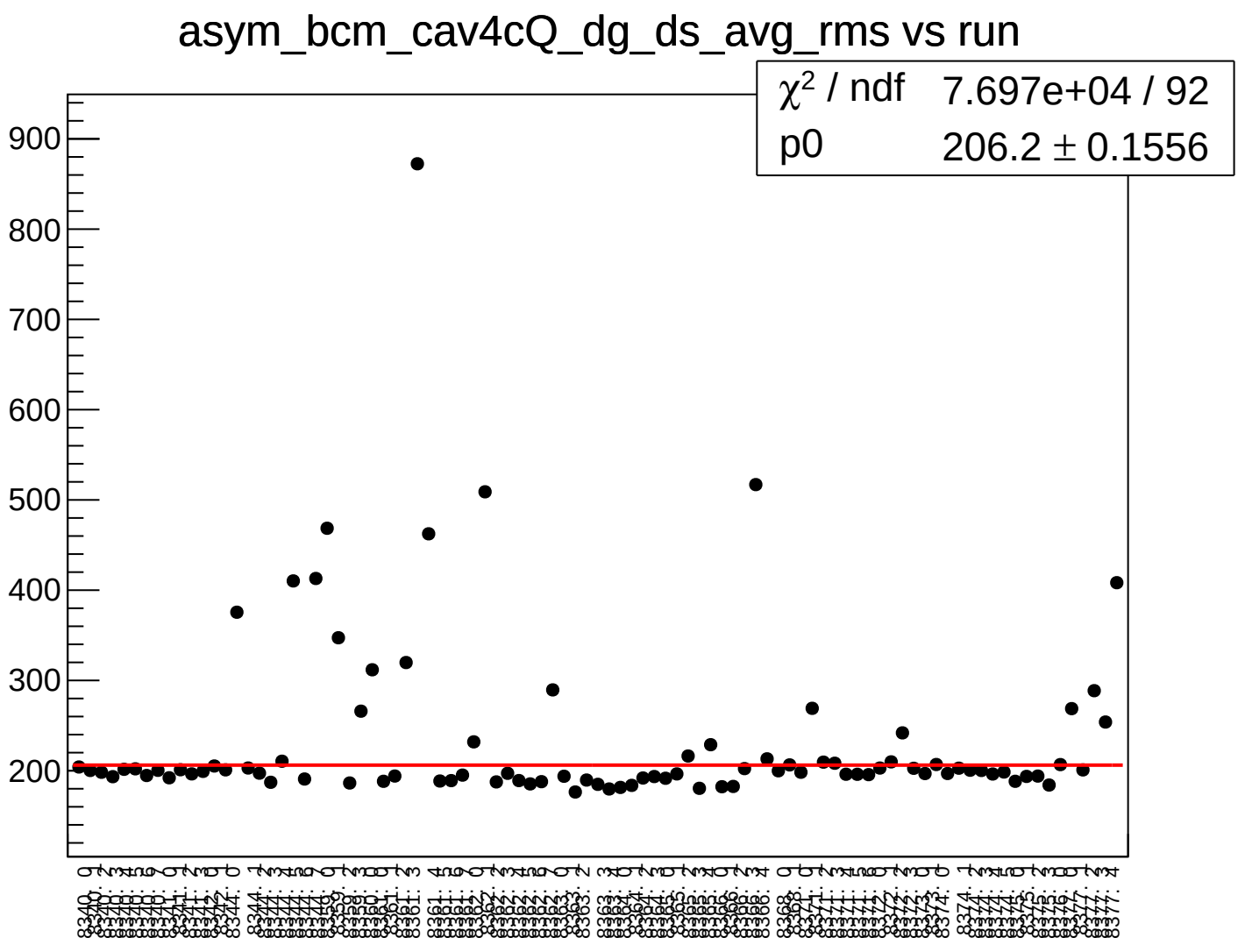

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ^2 / ndf 7.728e+04 / 92
p0 205.6 ± 0.1552
900
800
700
600
500
400
300
200

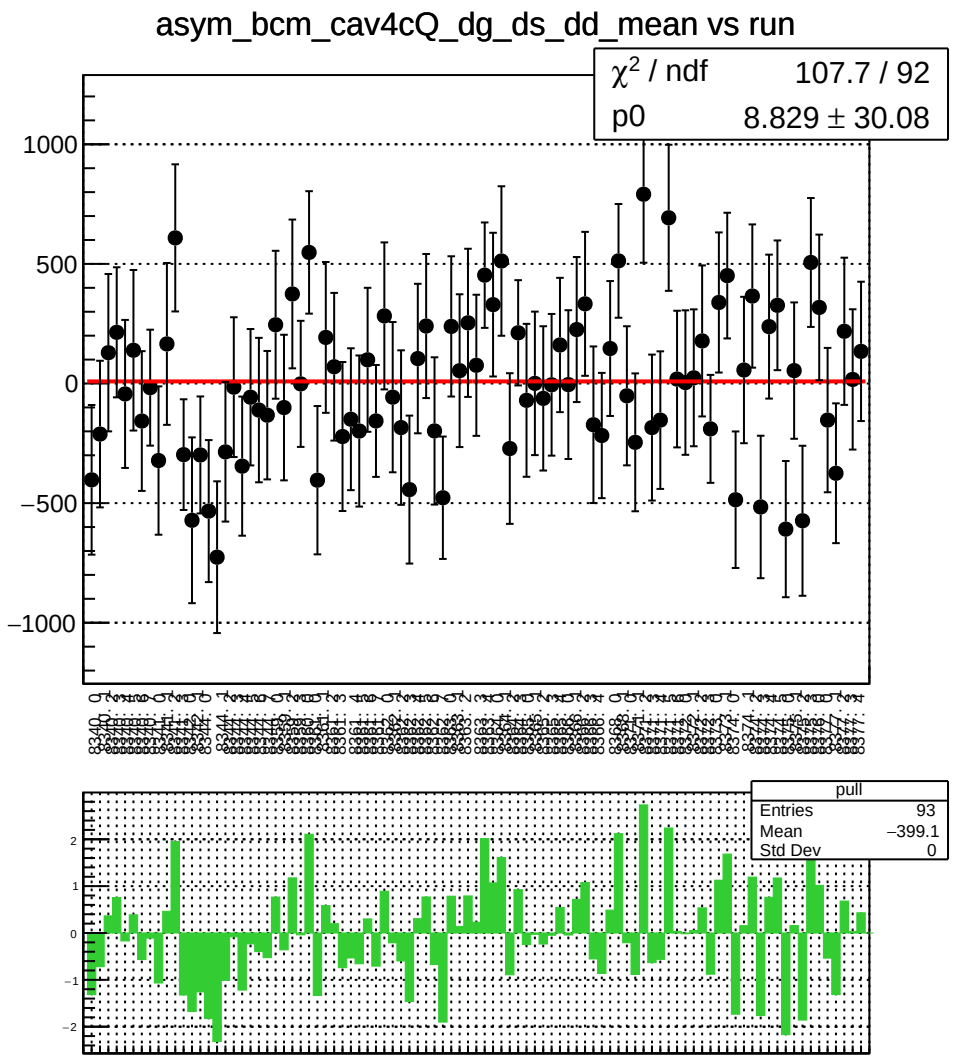

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 114.6 / 92
p0 17.18 ± 27.38
1000
500
0
−500
−1000
pull
Entries 93
Mean −2216
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002529
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

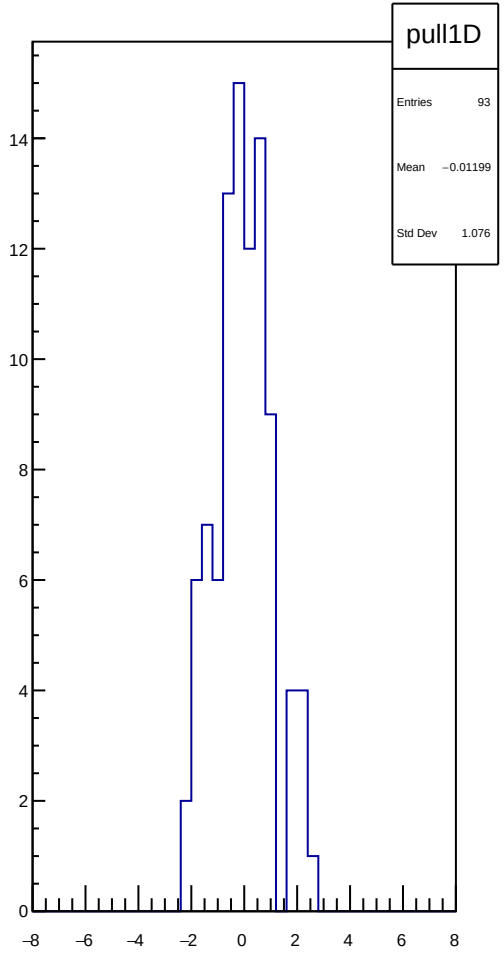

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 3417 / 92
p0 26.19 ± 0.01936
30
29
28
27
26
25
24
23

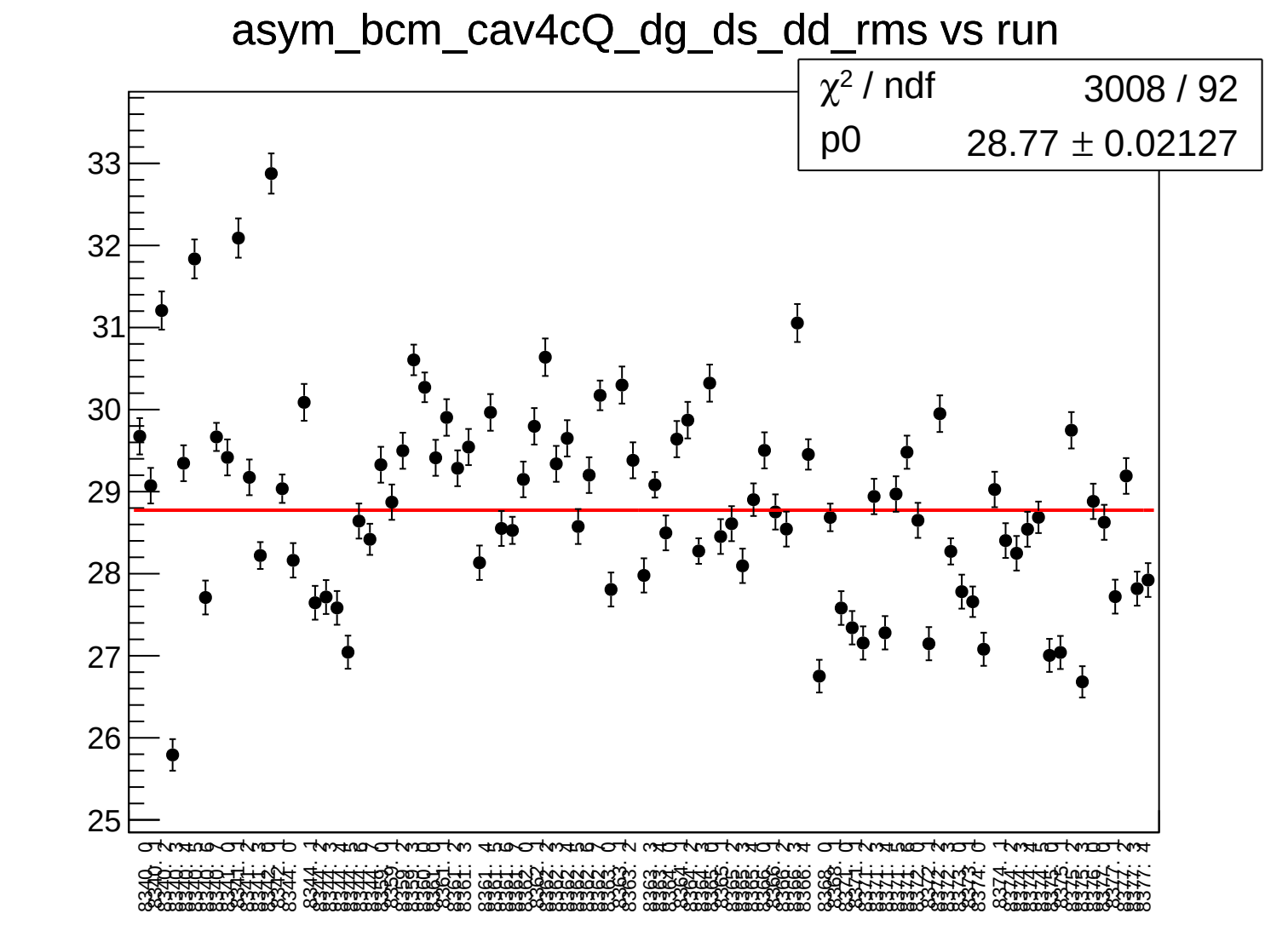

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 44.58 / 92
p0 985 ± 220
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 405.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

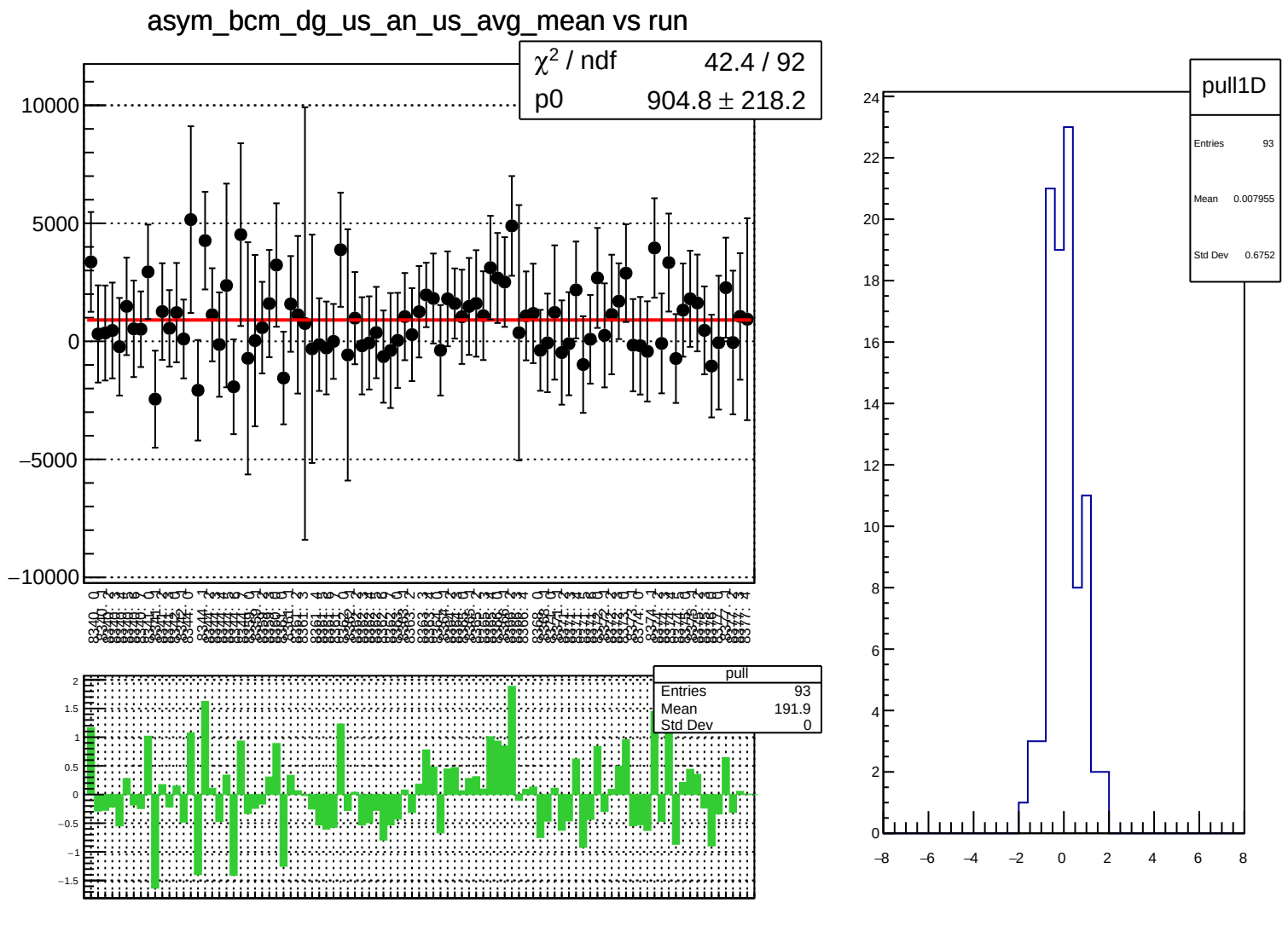

pull1D
Entries 93
Mean 0.005676
Std Dev 0.6923
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

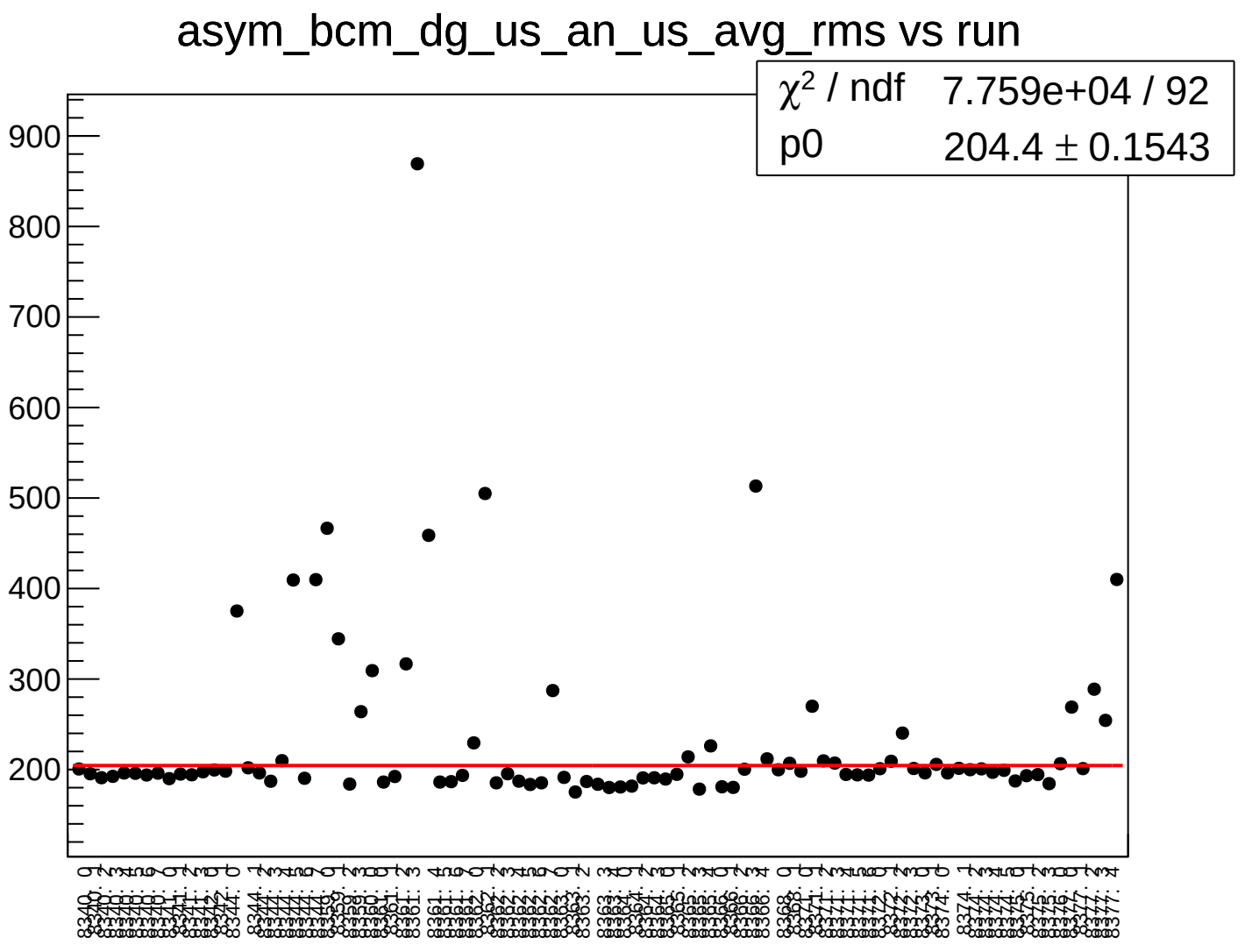

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 7.697e+04 / 92
p0 206.2 ± 0.1556
900
800
700
600
500
400
300
200

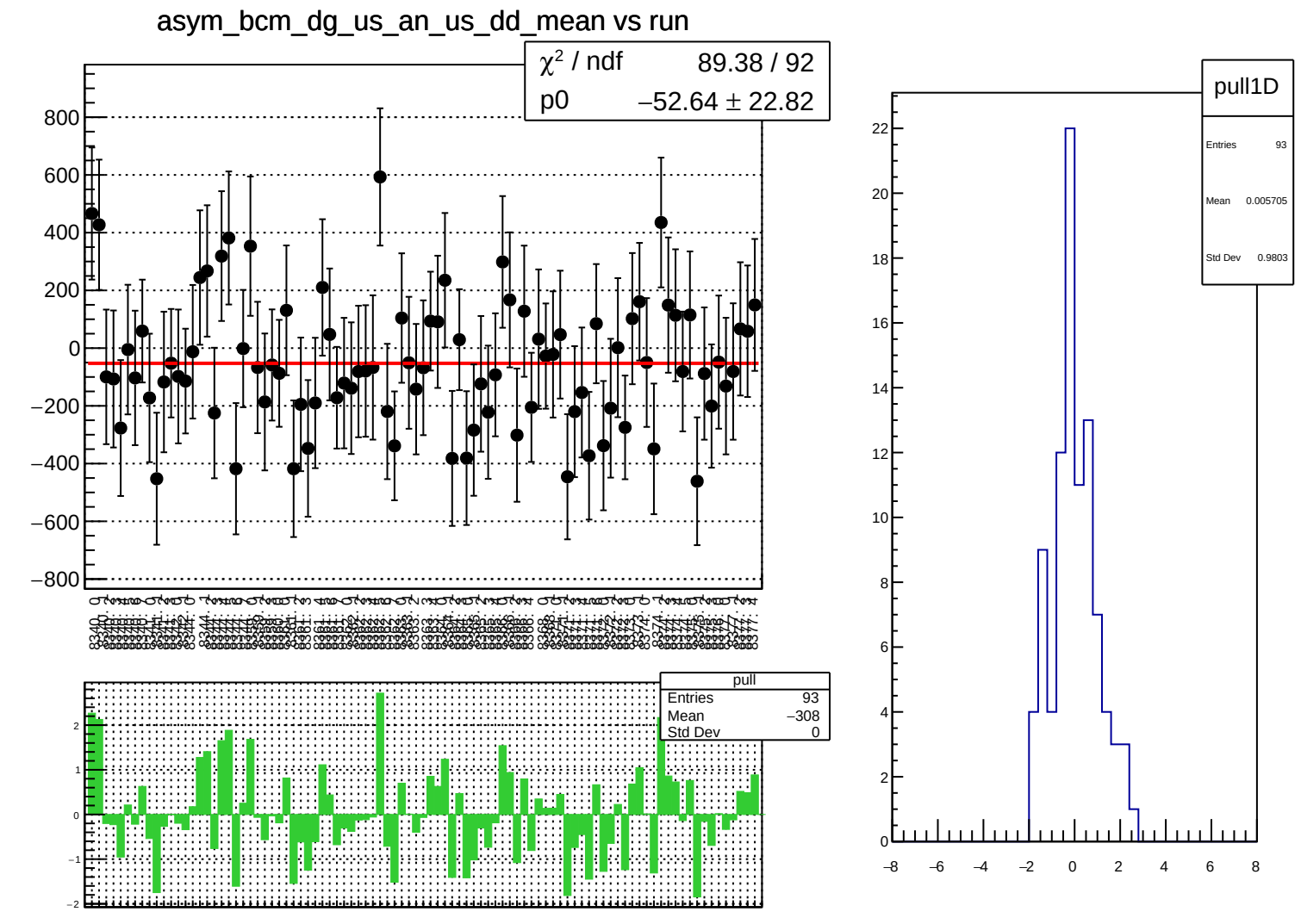

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 107.7 / 92
p0 8.829 ± 30.08
1000
500
0
−500
−1000
pull
Entries 93
Mean −399.1
Std Dev 0
2
1
0
−1
−2

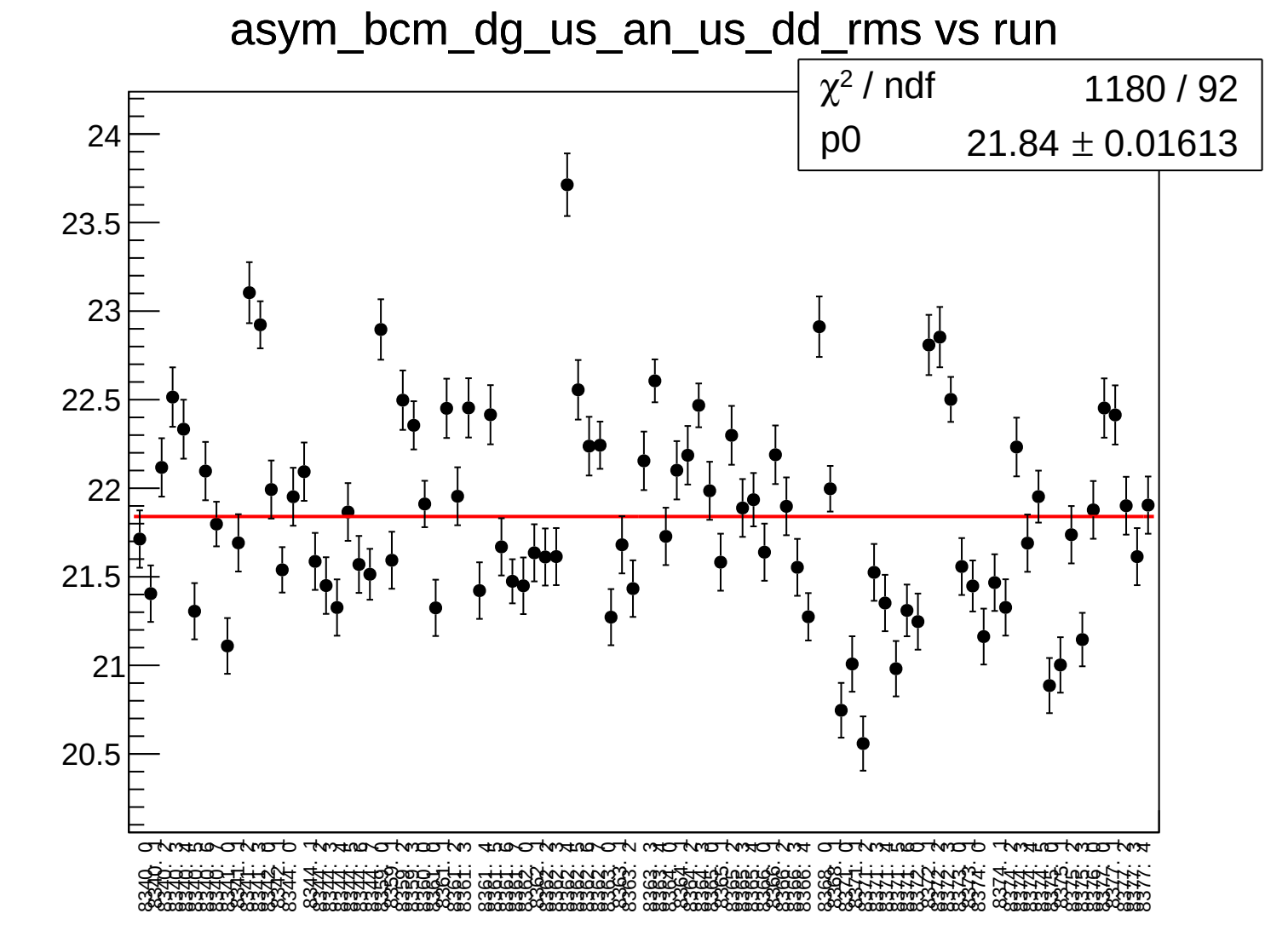

pull1D
Entries 93
Mean −0.01199
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

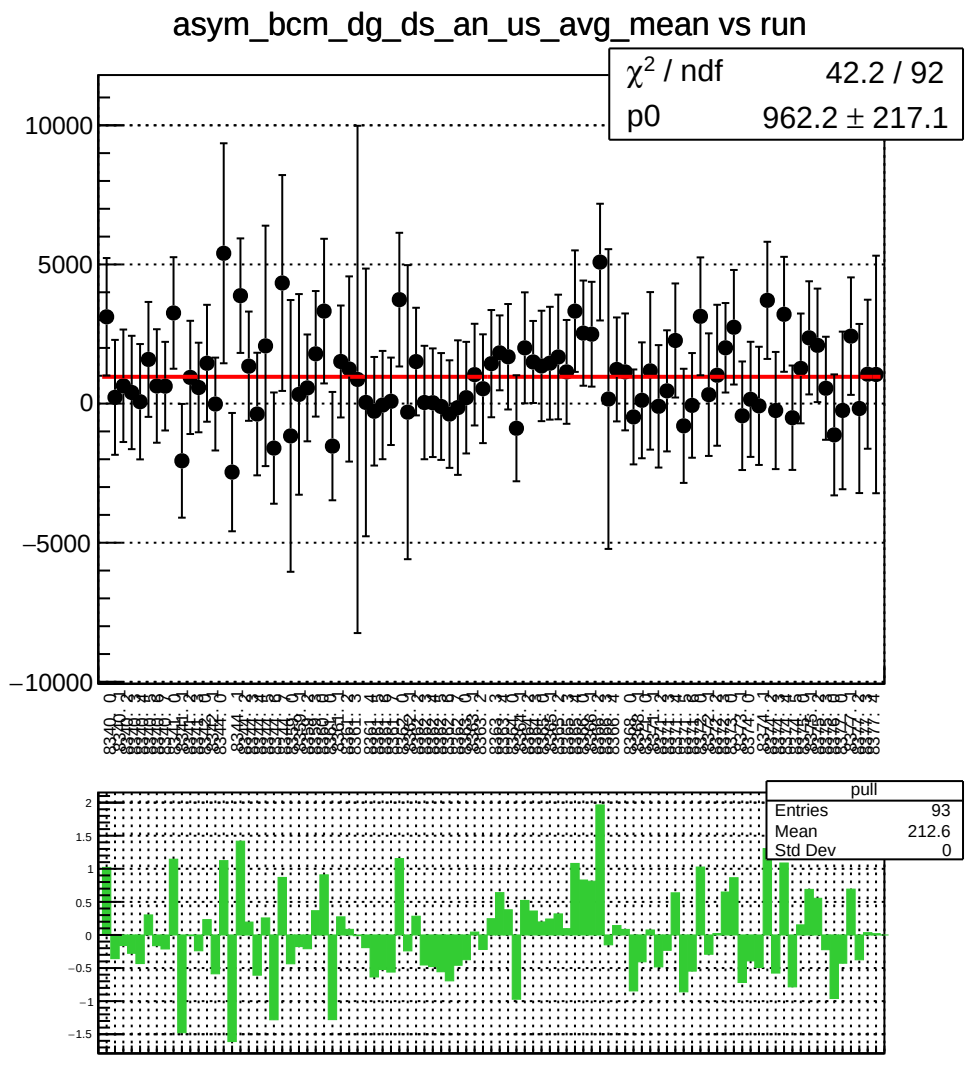

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3008 / 92
p0 28.77 ± 0.02127
33
32
31
30
29
28
27
26
25

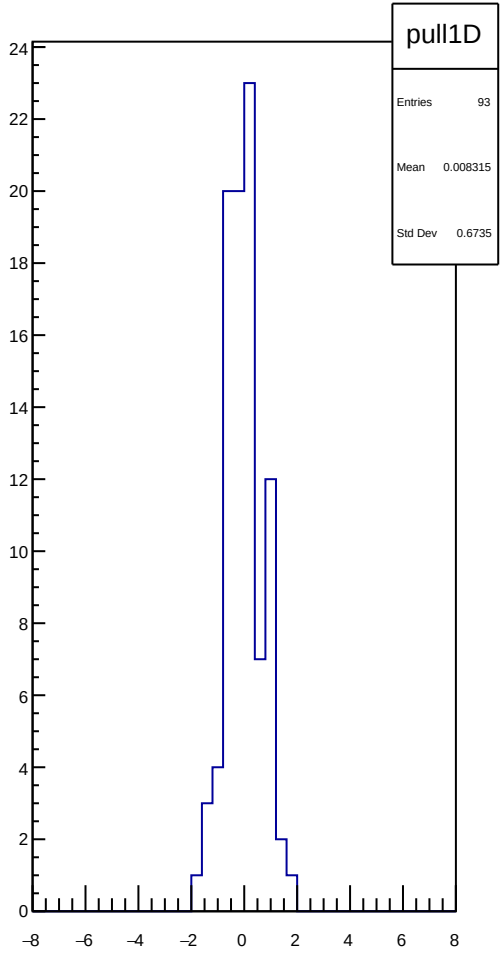

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 42.4 / 92
p0 904.8 ± 218.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 191.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.007955
Std Dev 0.6752
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

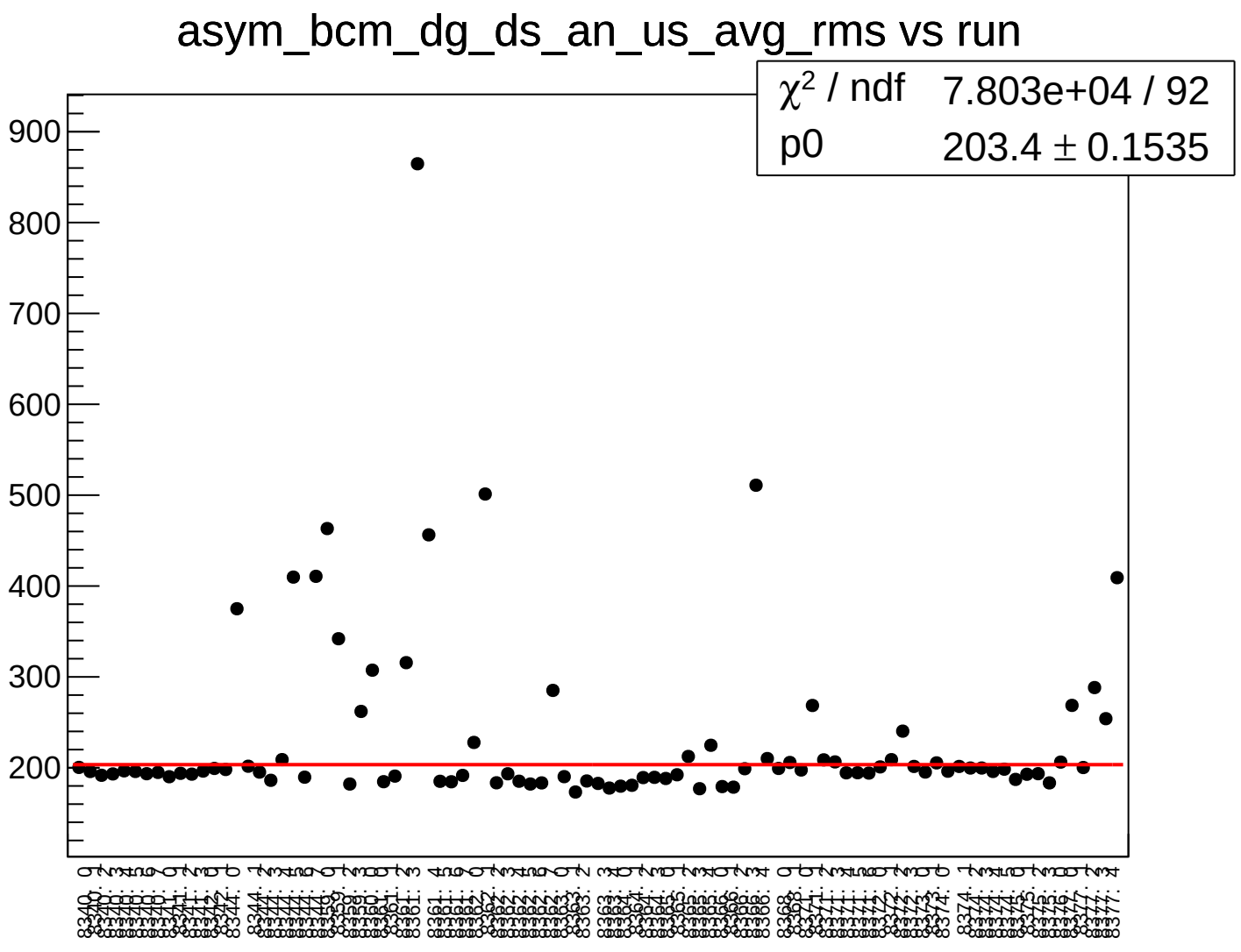

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 7.759e+04 / 92
p0 204.4 ± 0.1543
900
800
700
600
500
400
300
200

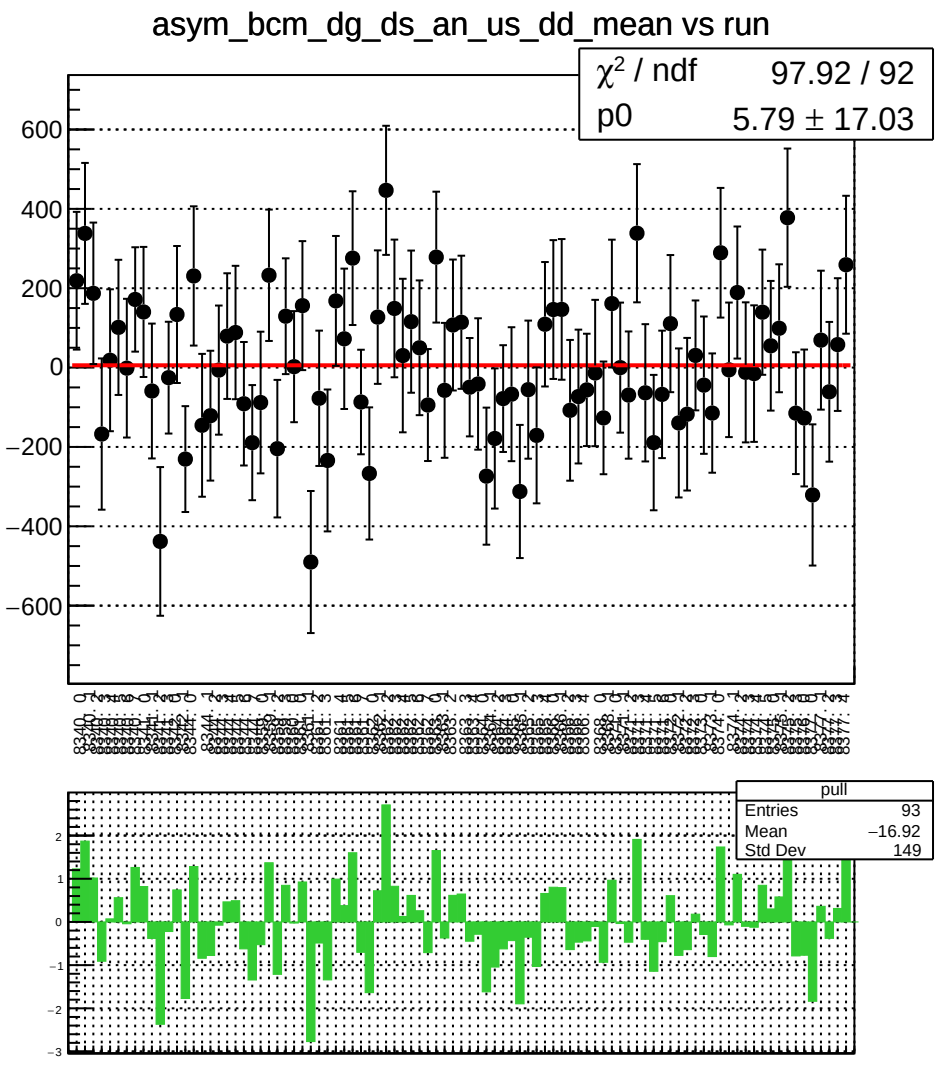

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 89.38 / 92
p0 −52.64 ± 22.82
pull
Entries 93
Mean −308
Std Dev 0
pull1D
Entries 93
Mean 0.005705
Std Dev 0.9803

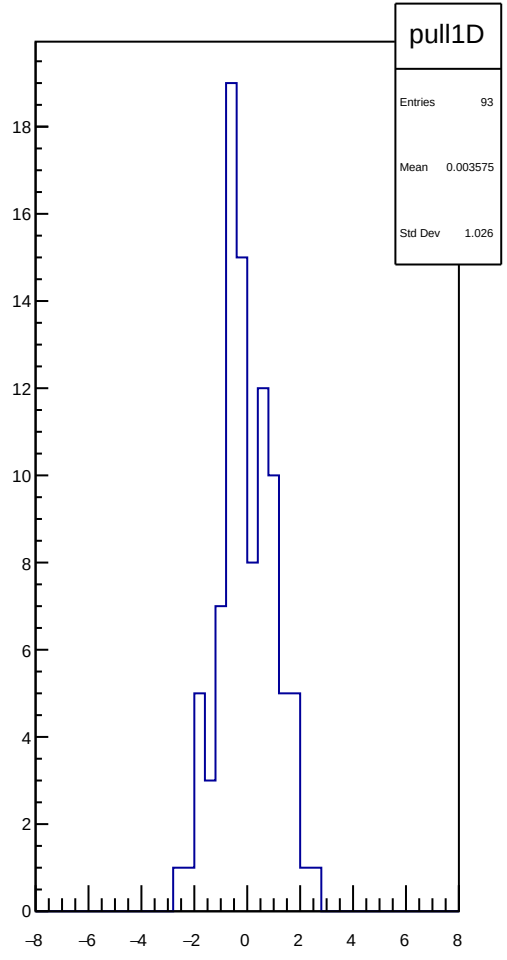

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1180 / 92
p0 21.84 ± 0.01613
24
23.5
23
22.5
22
21.5
21
20.5

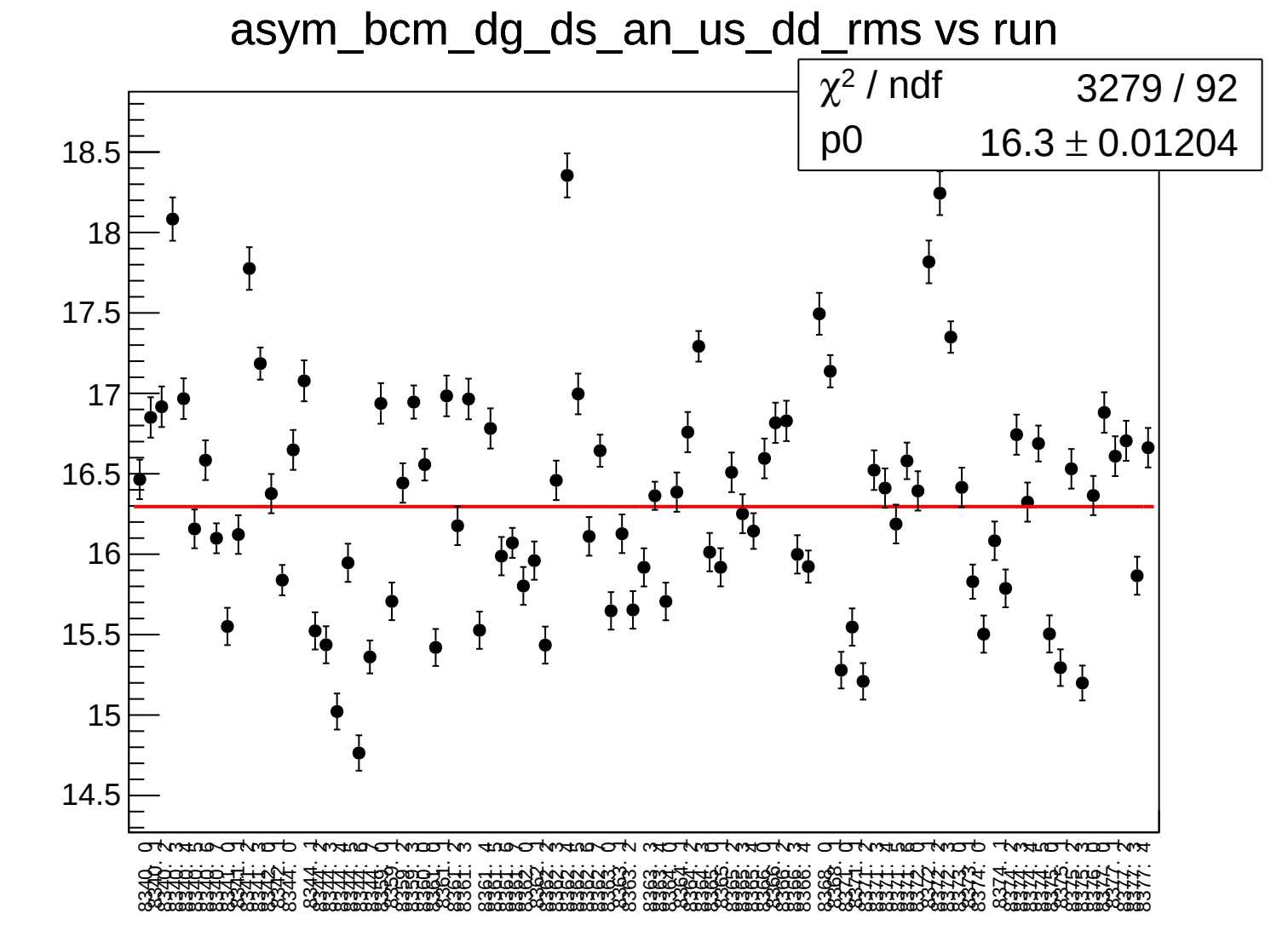

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 42.2 / 92
p0 962.2 ± 217.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 212.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

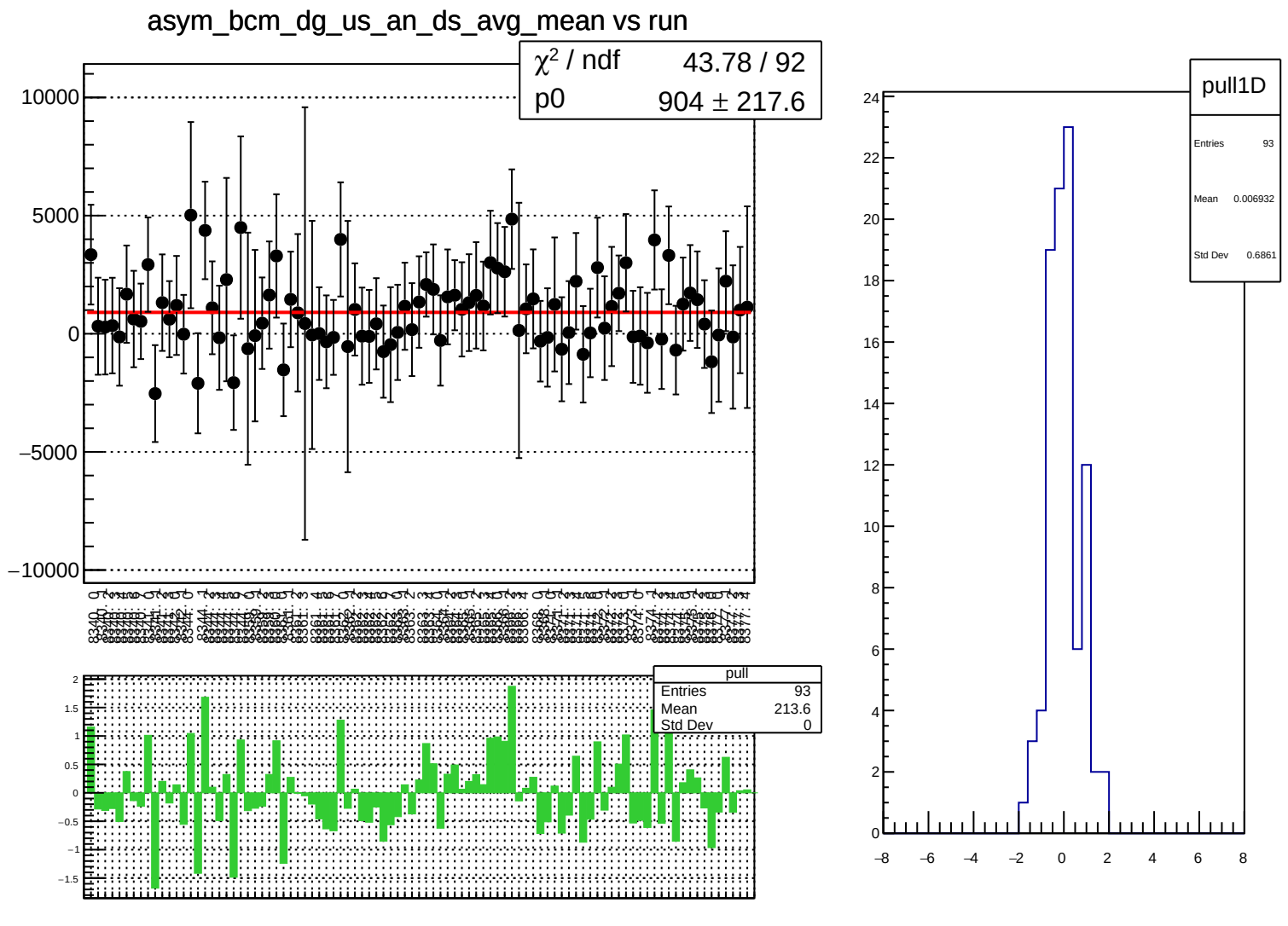

pull1D
Entries 93
Mean 0.008315
Std Dev 0.6735
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

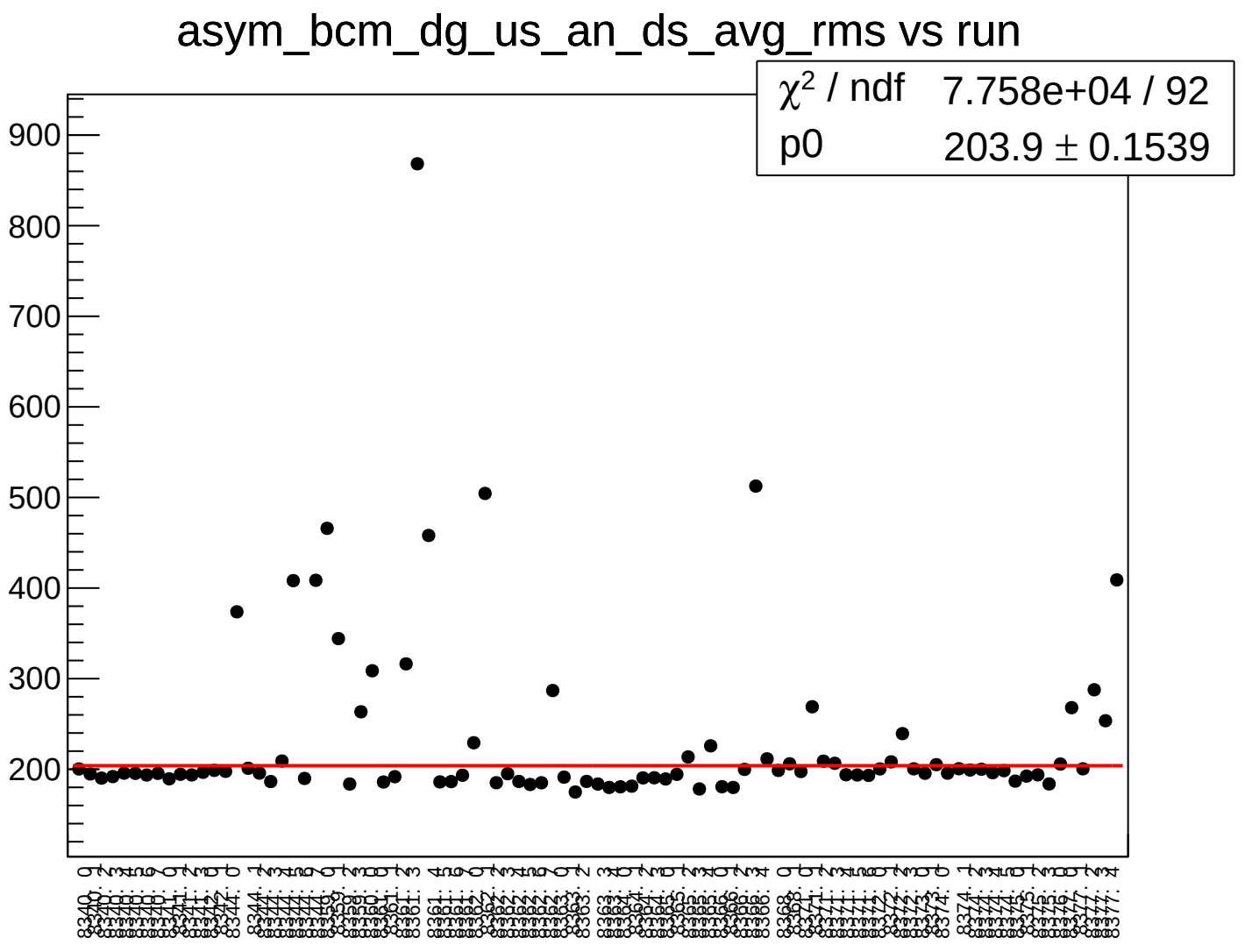

asym_bcm_dg_ds_an_us_avg_rms vs run
χ^2 / ndf 7.803e+04 / 92
p0 203.4 ± 0.1535
900
800
700
600
500
400
300
200

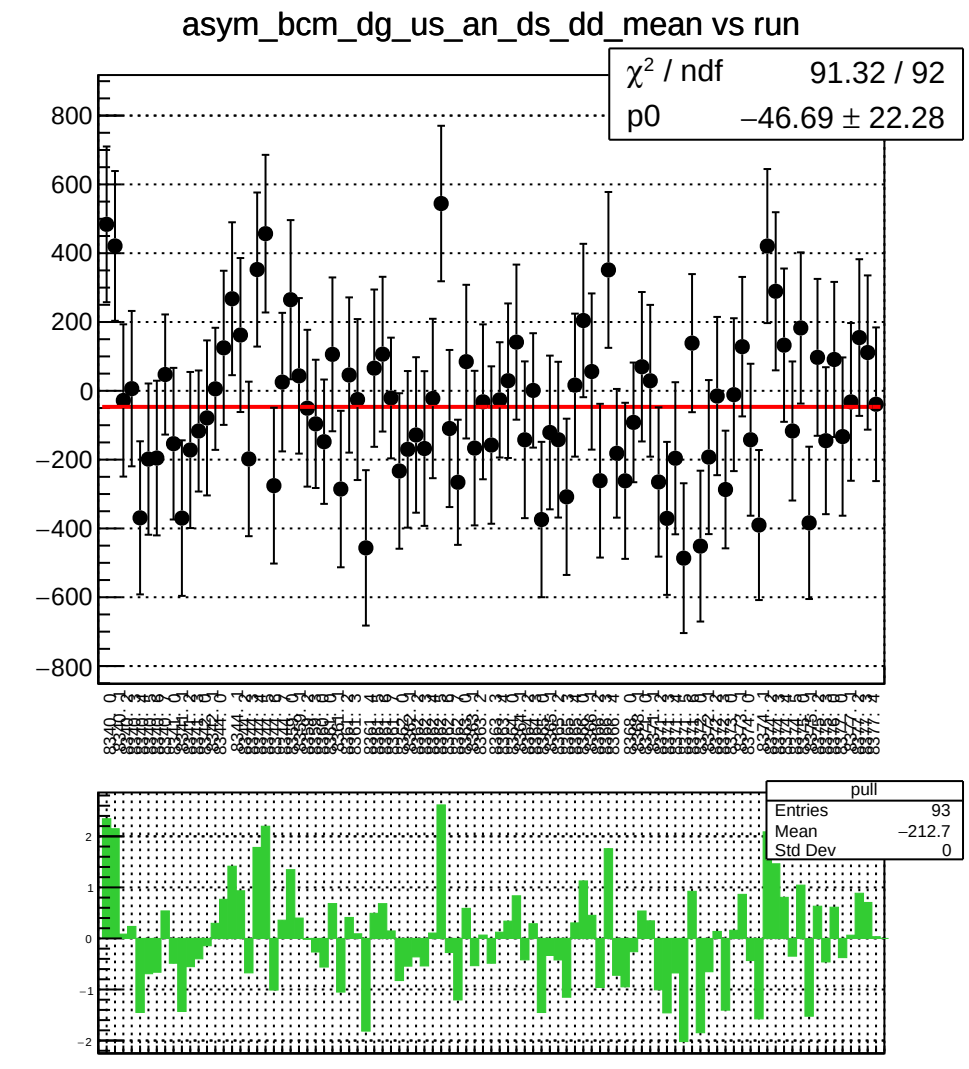

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 97.92 / 92
p0 5.79 ± 17.03
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −16.92
Std Dev 149
2
1
0
−1
−2
−3

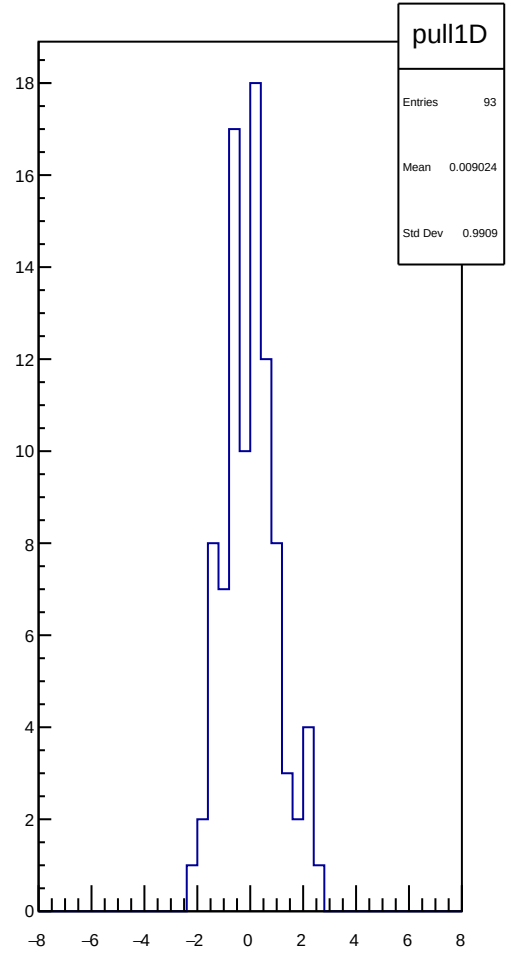

pull1D
Entries 93
Mean 0.003575
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

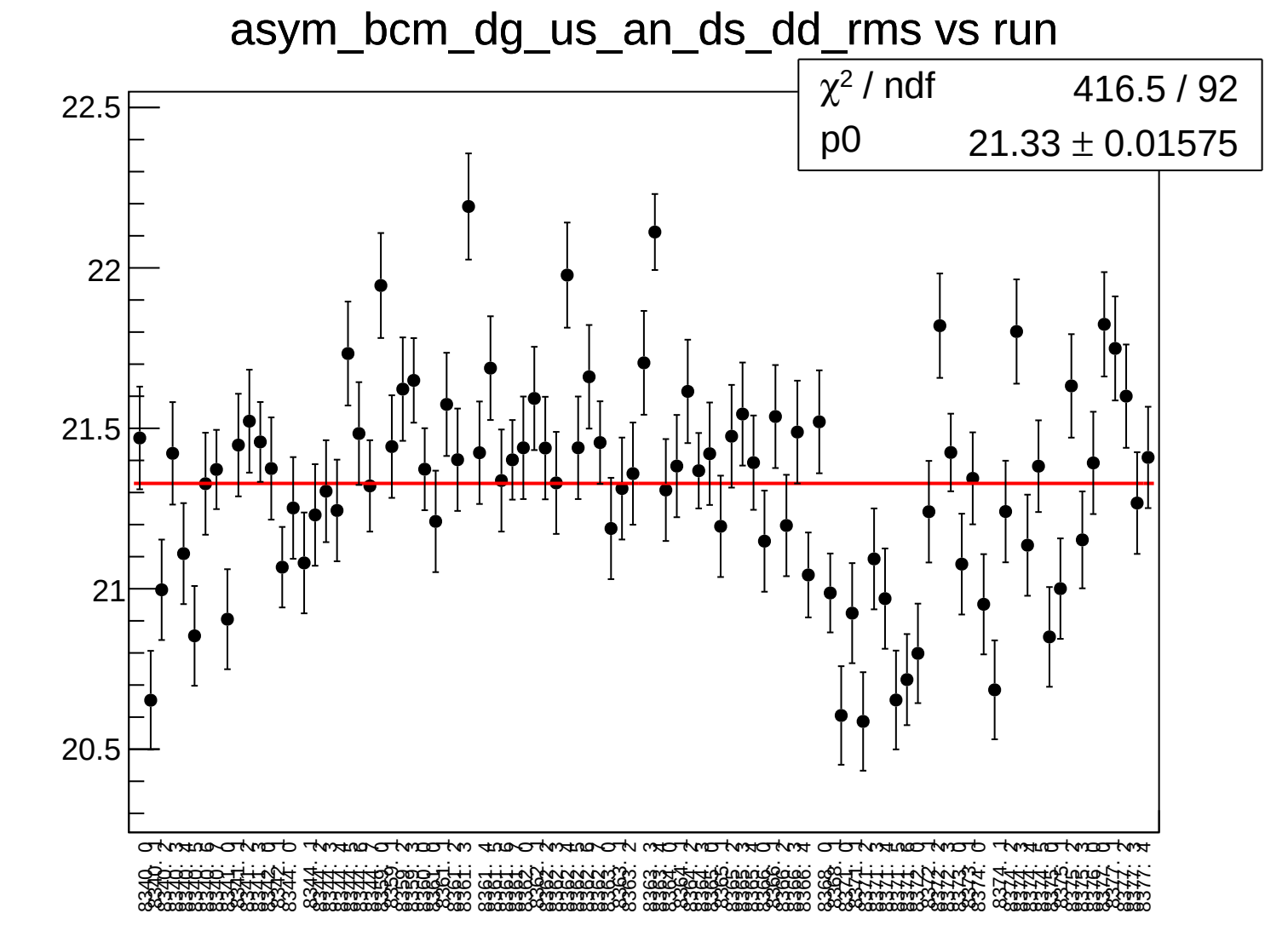

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3279 / 92
p0 16.3 ± 0.01204
18.5
18
17.5
17
16.5
16
15.5
15
14.5

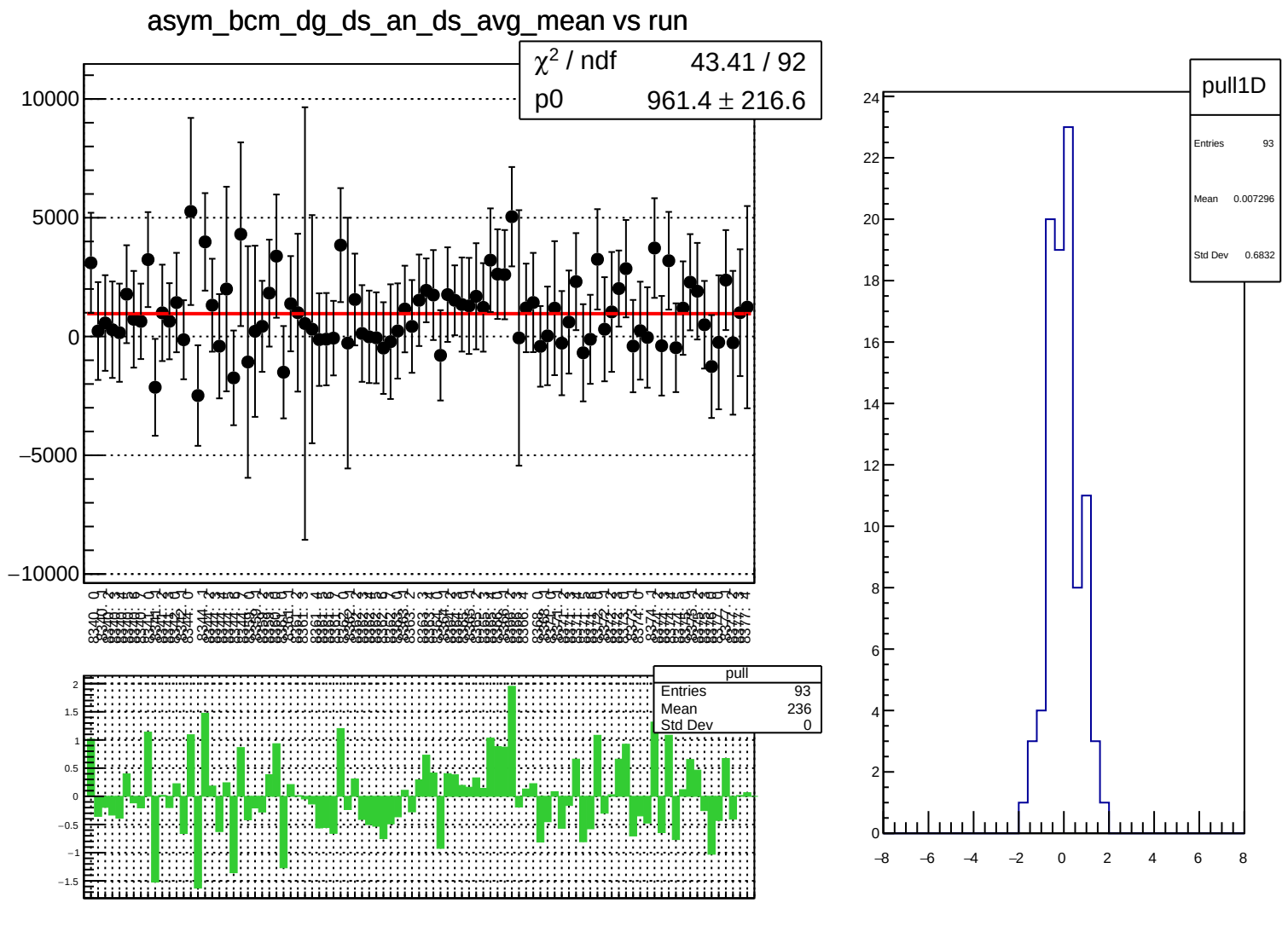

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 43.78 / 92
p0 904 ± 217.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 213.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.006932
Std Dev 0.6861
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

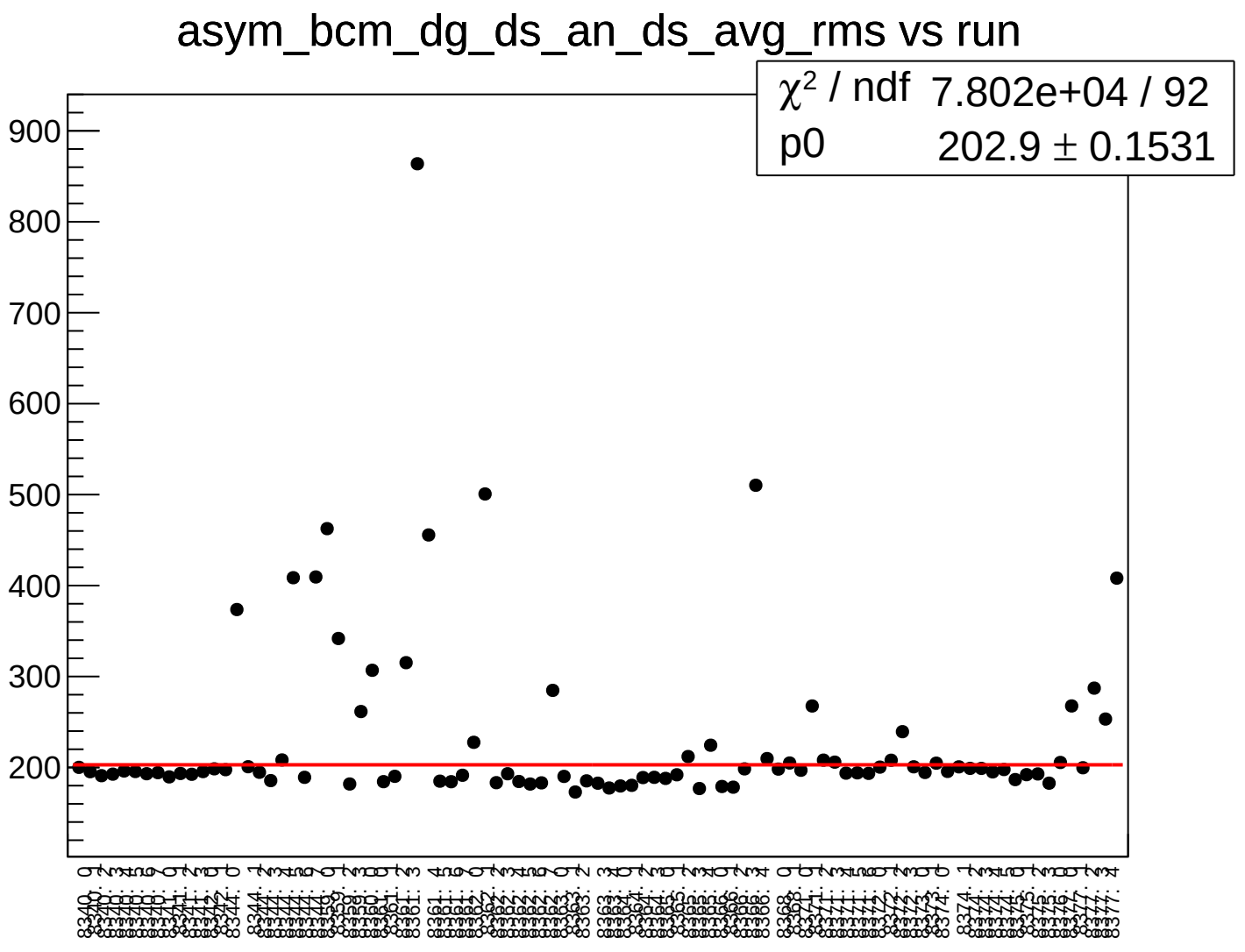

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 7.758e+04 / 92
p0 203.9 ± 0.1539
900
800
700
600
500
400
300
200

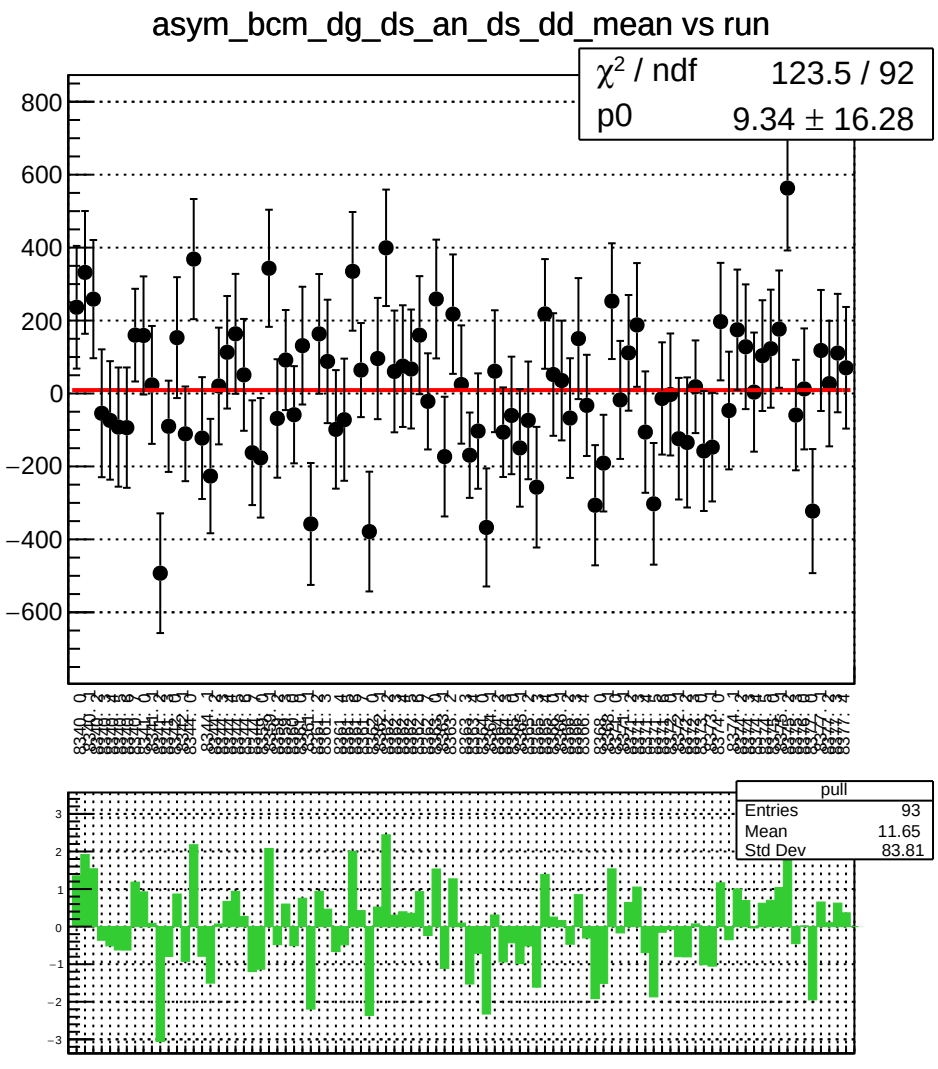

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 91.32 / 92
p0 −46.69 ± 22.28
pull
Entries 93
Mean −212.7
Std Dev 0

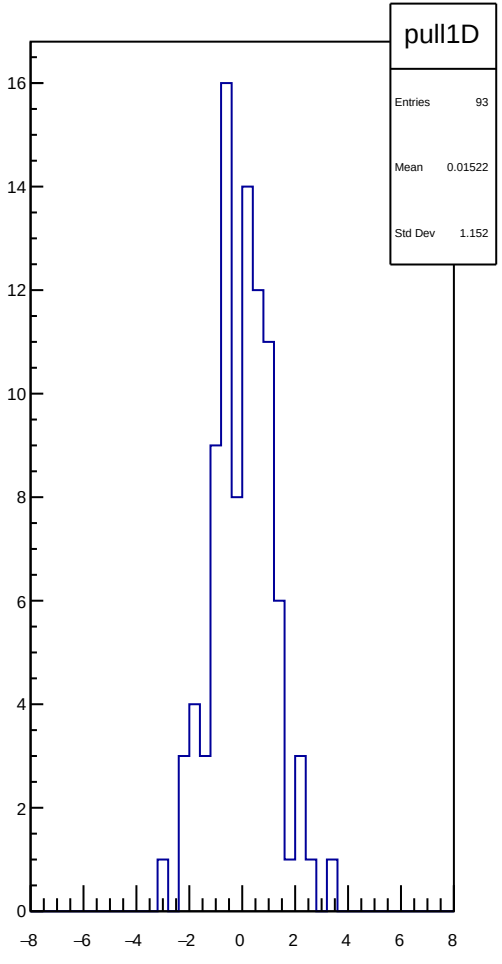

pull1D
Entries 93
Mean 0.009024
Std Dev 0.9909

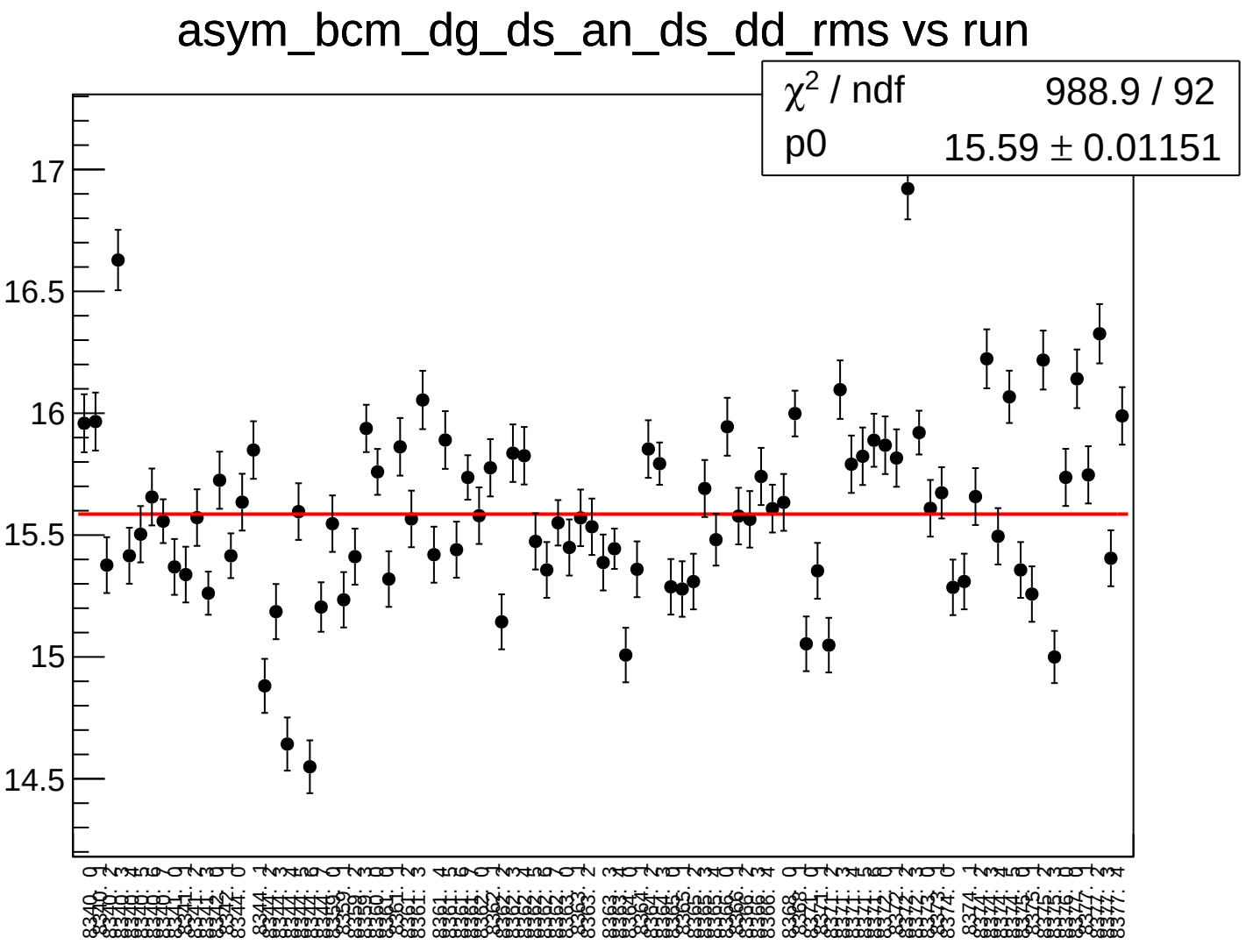

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 416.5 / 92
p0 21.33 ± 0.01575
22.5
22
21.5
21
20.5

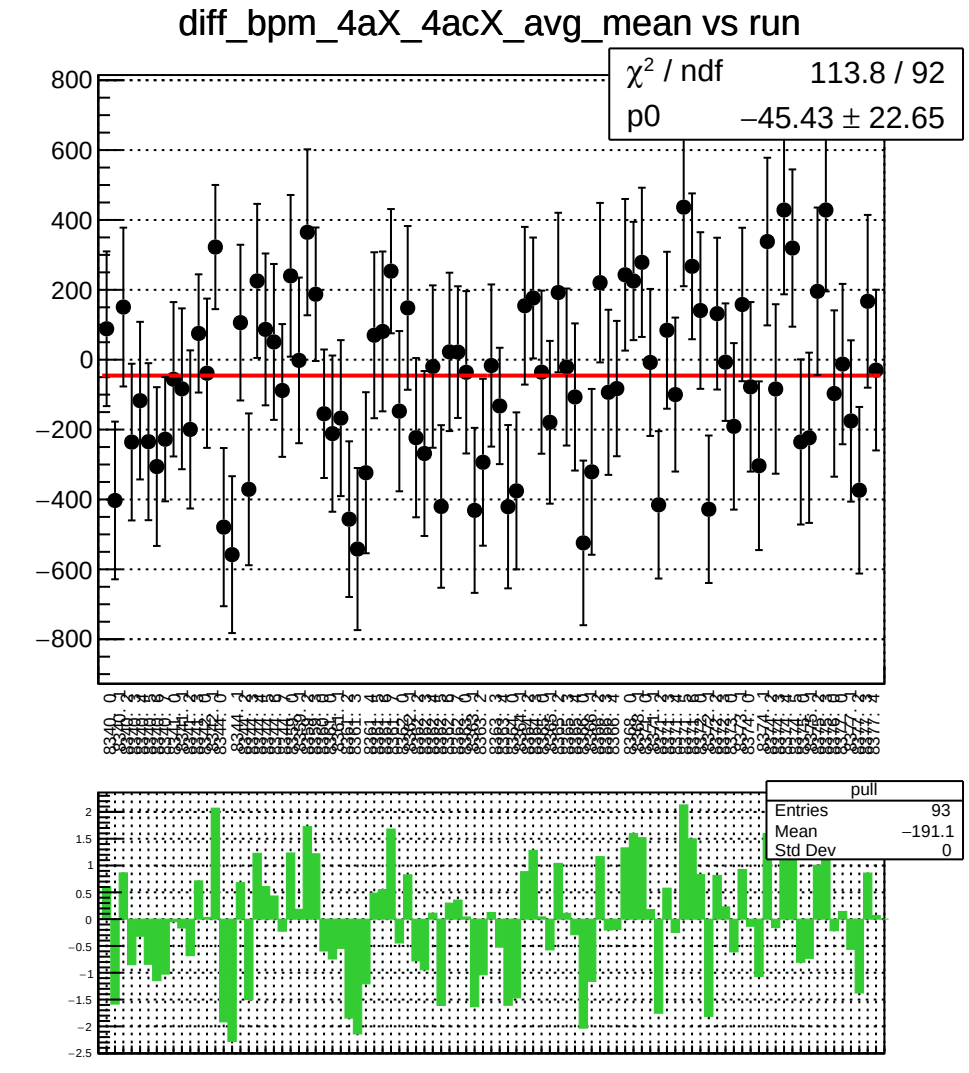

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 43.41 / 92
p0 961.4 ± 216.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 236
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.007296
Std Dev 0.6832
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

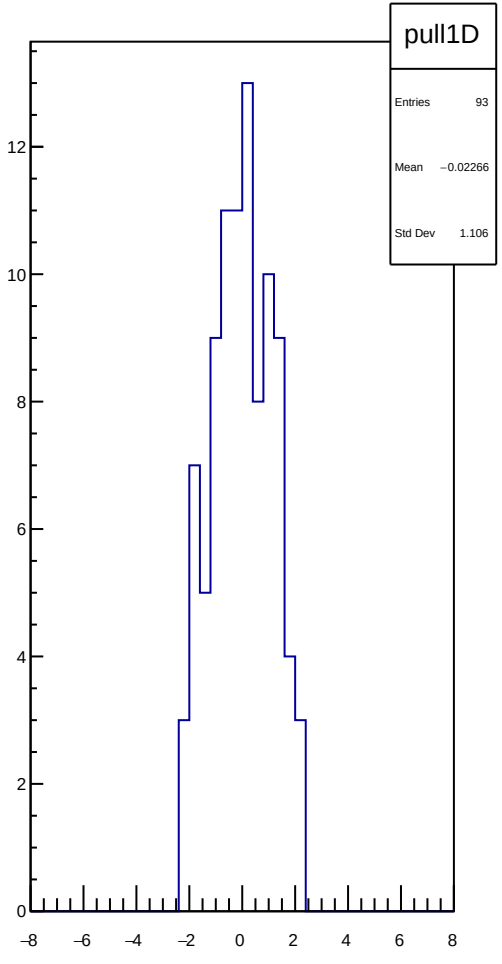

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 7.802e+04 / 92
p0 202.9 ± 0.1531
900
800
700
600
500
400
300
200

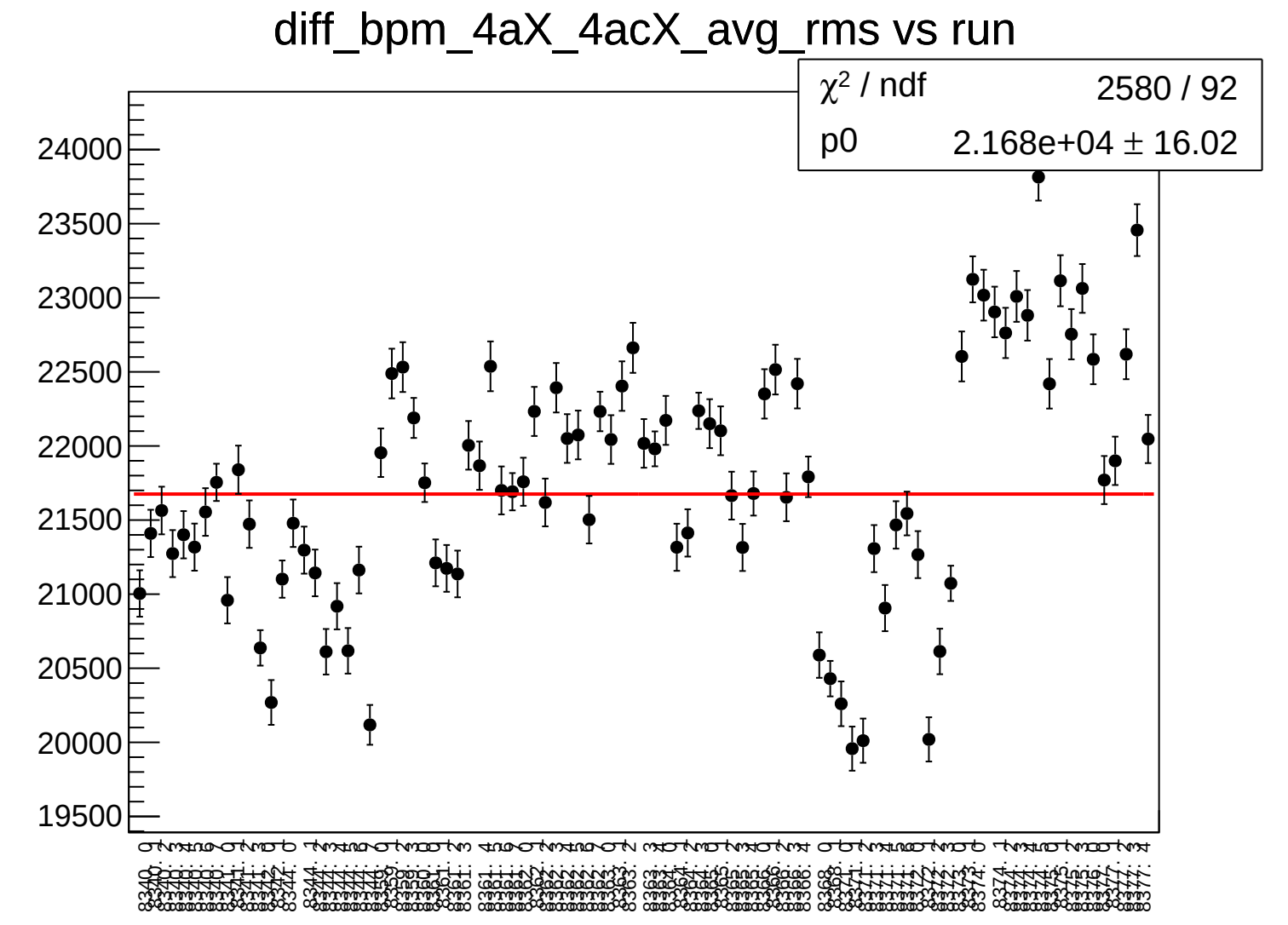

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 123.5 / 92
p0 9.34 ± 16.28
pull
Entries 93
Mean 11.65
Std Dev 83.81

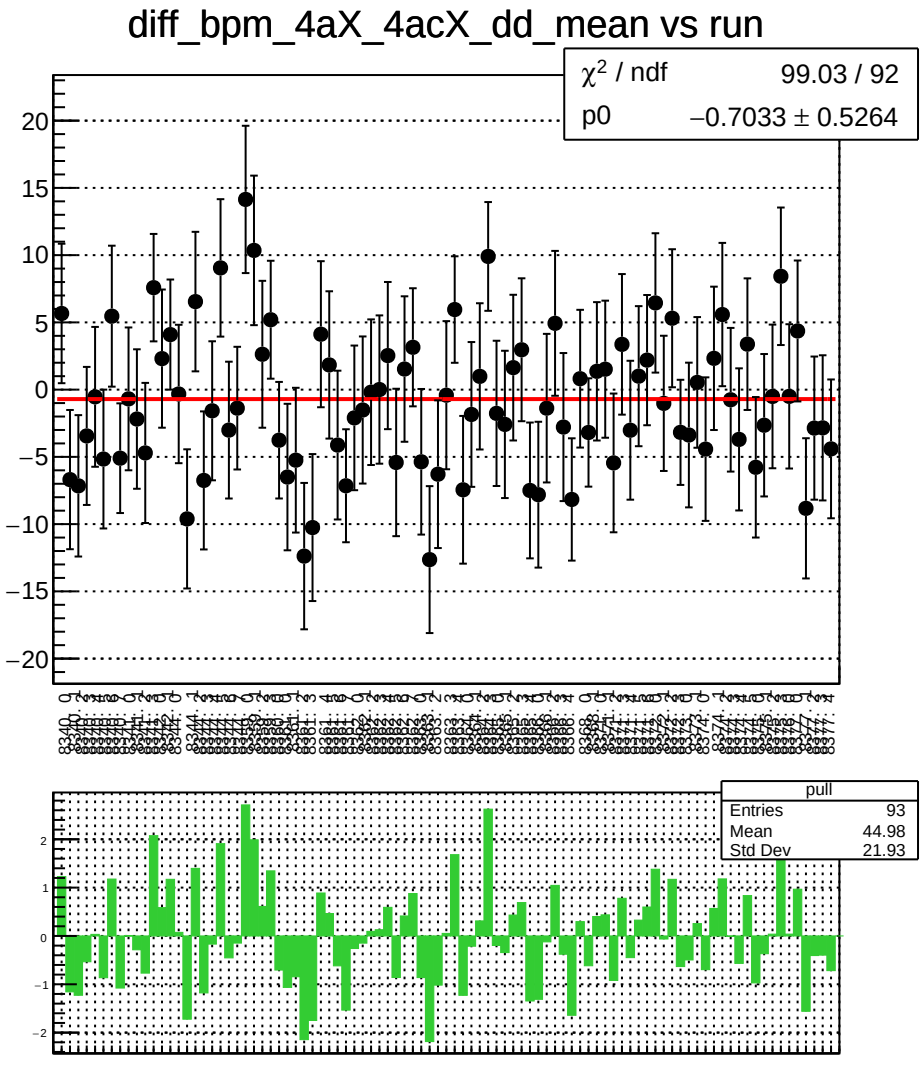

pull1D
Entries 93
Mean 0.01522
Std Dev 1.152

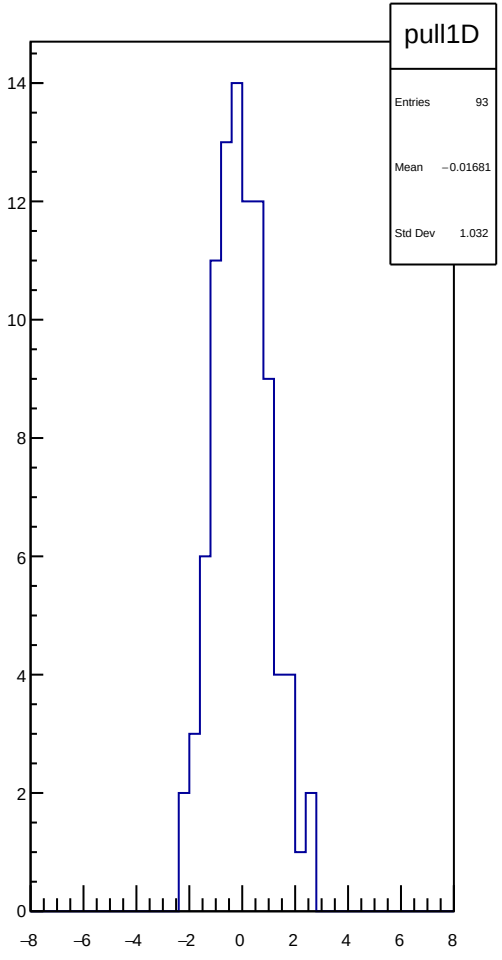

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ^2 / ndf 988.9 / 92
p0 15.59 ± 0.01151
17
16.5
16
15.5
15
14.5

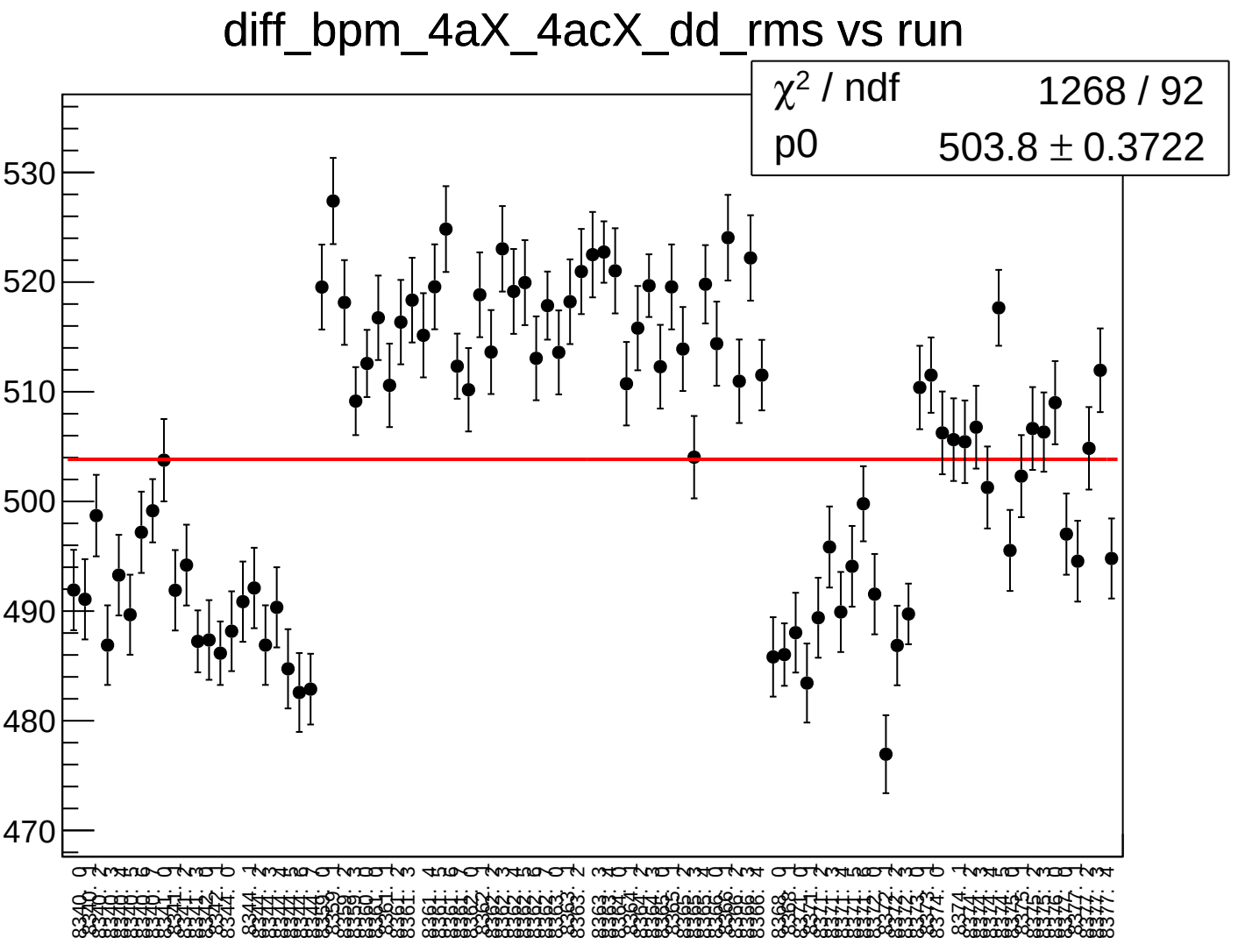

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 113.8 / 92
p0 −45.43 ± 22.65
pull
Entries 93
Mean −191.1
Std Dev 0

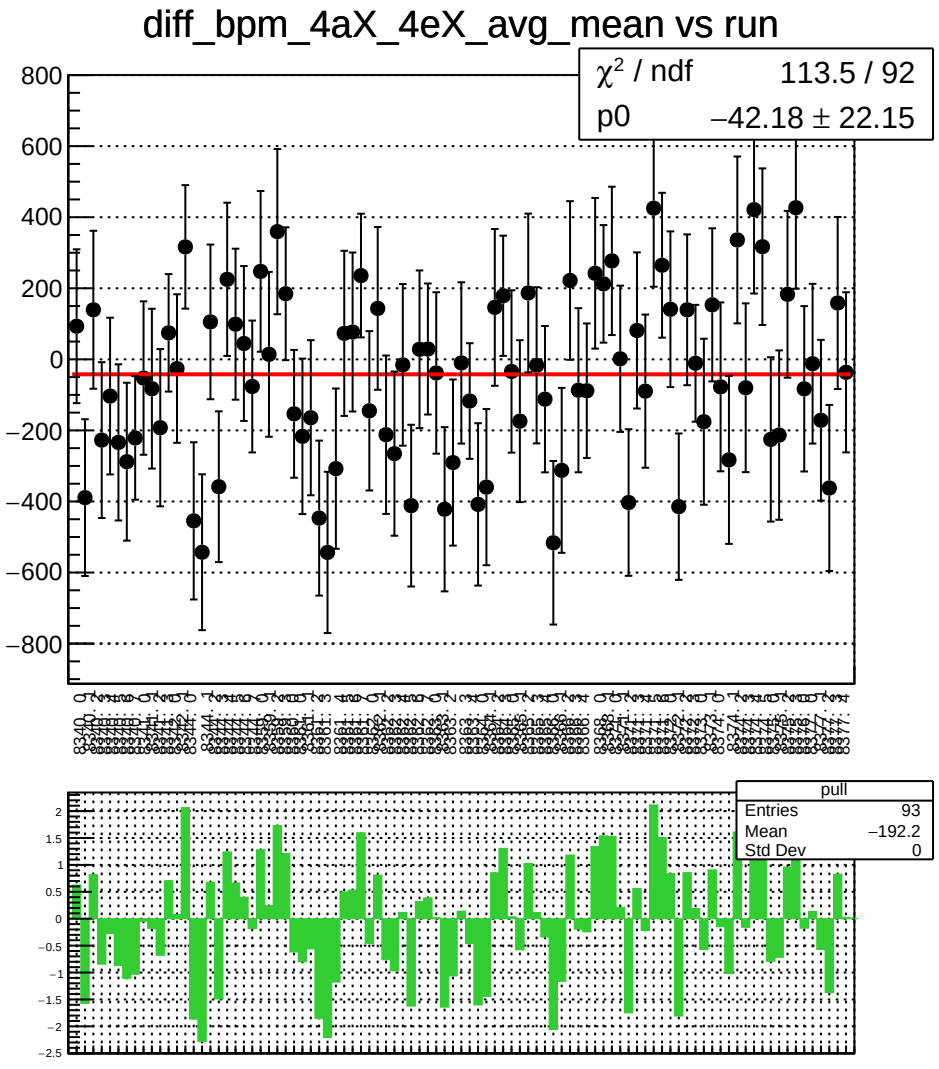

pull1D
Entries 93
Mean −0.02266
Std Dev 1.106

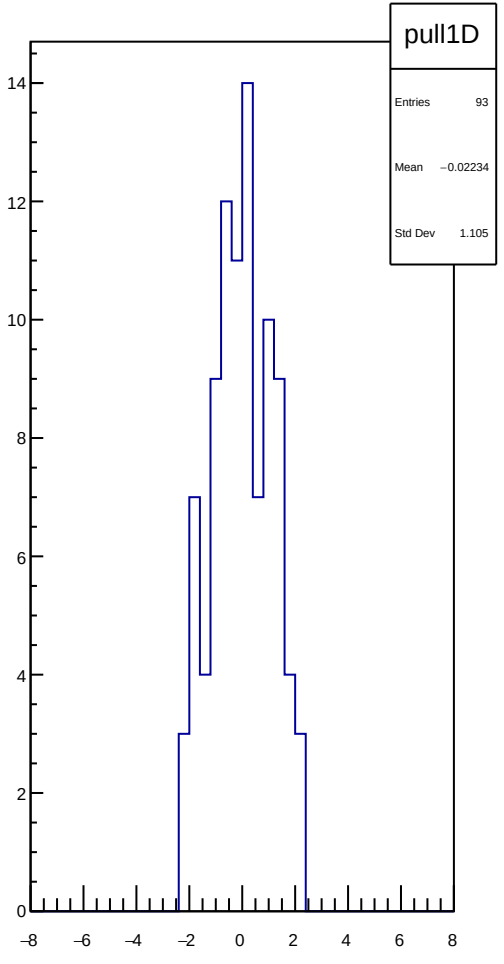

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2580 / 92
p0 2.168e+04 ± 16.02
24000
23500
23000
22500
22000
21500
21000
20500
20000
19500

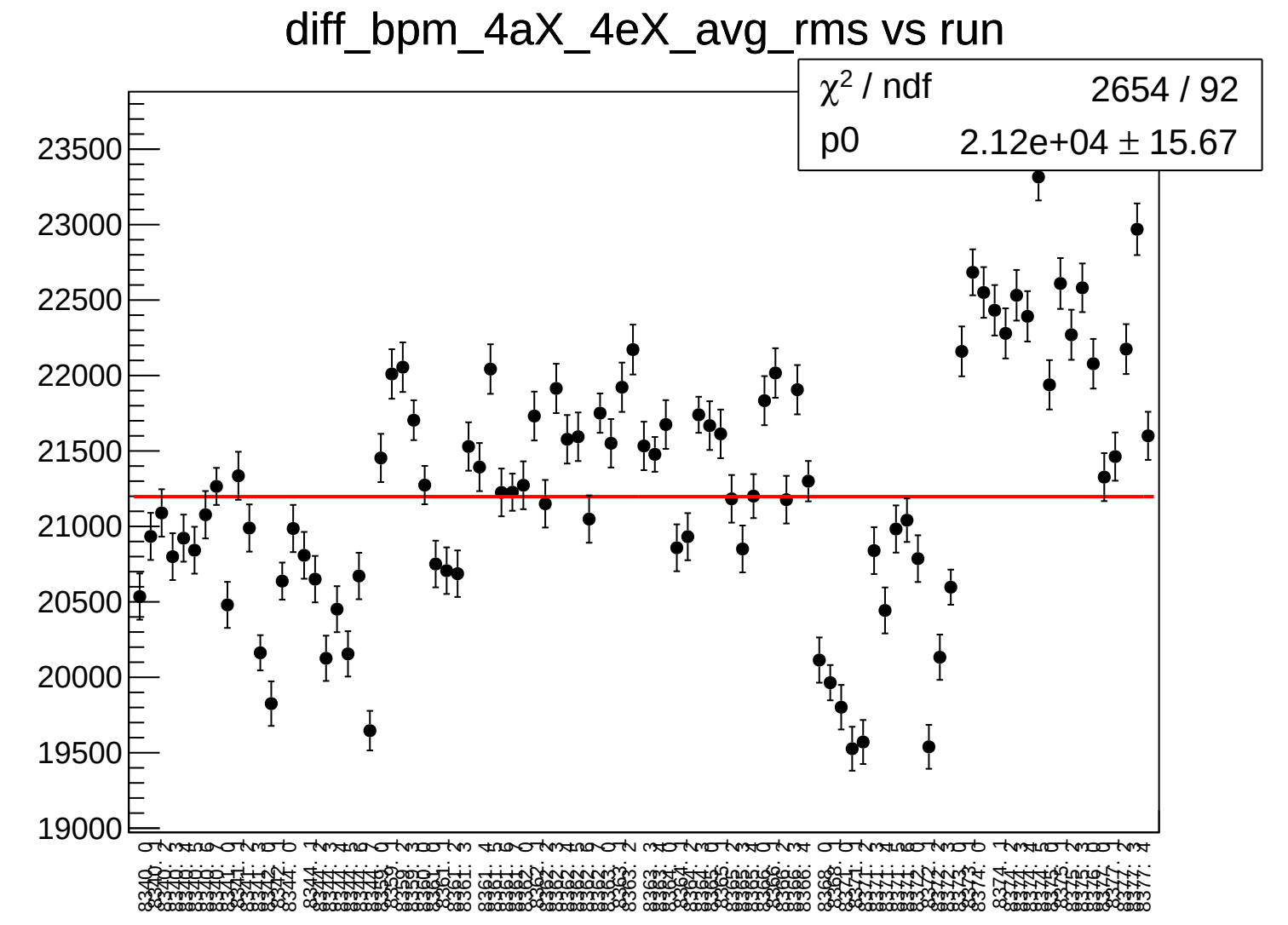

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 99.03 / 92
p0 −0.7033 ± 0.5264
pull
Entries 93
Mean 44.98
Std Dev 21.93

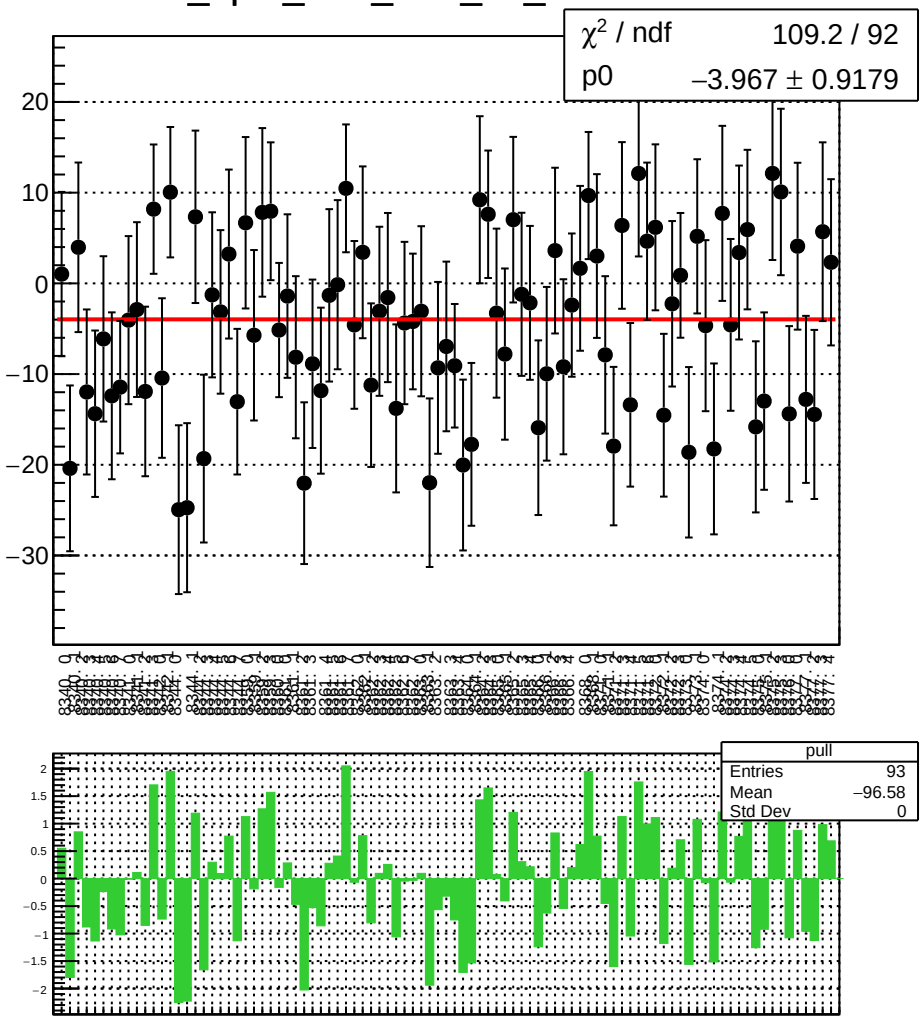

pull1D
Entries 93
Mean −0.01681
Std Dev 1.032

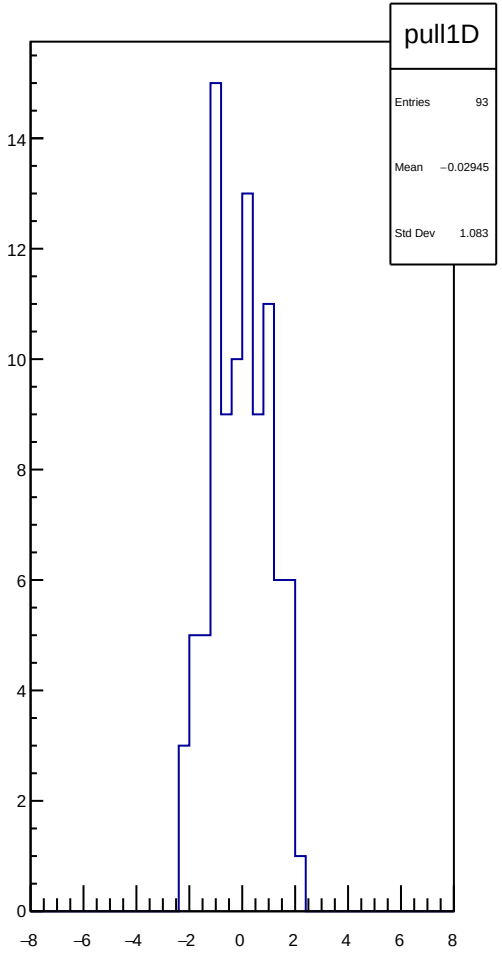

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 1268 / 92
p0 503.8 ± 0.3722
530
520
510
500
490
480
470

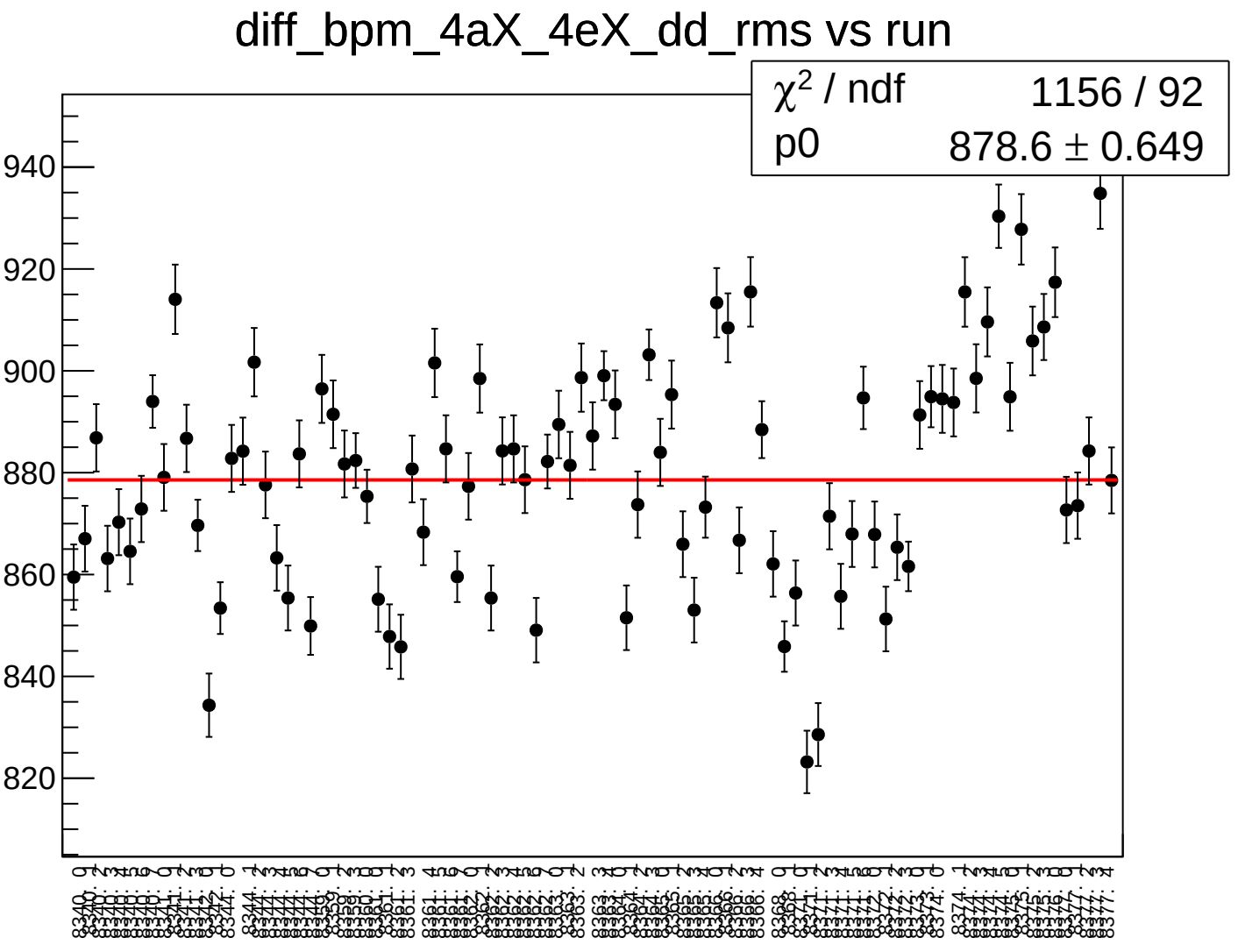

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 113.5 / 92
p0 −42.18 ± 22.15
pull
Entries 93
Mean −192.2
Std Dev 0

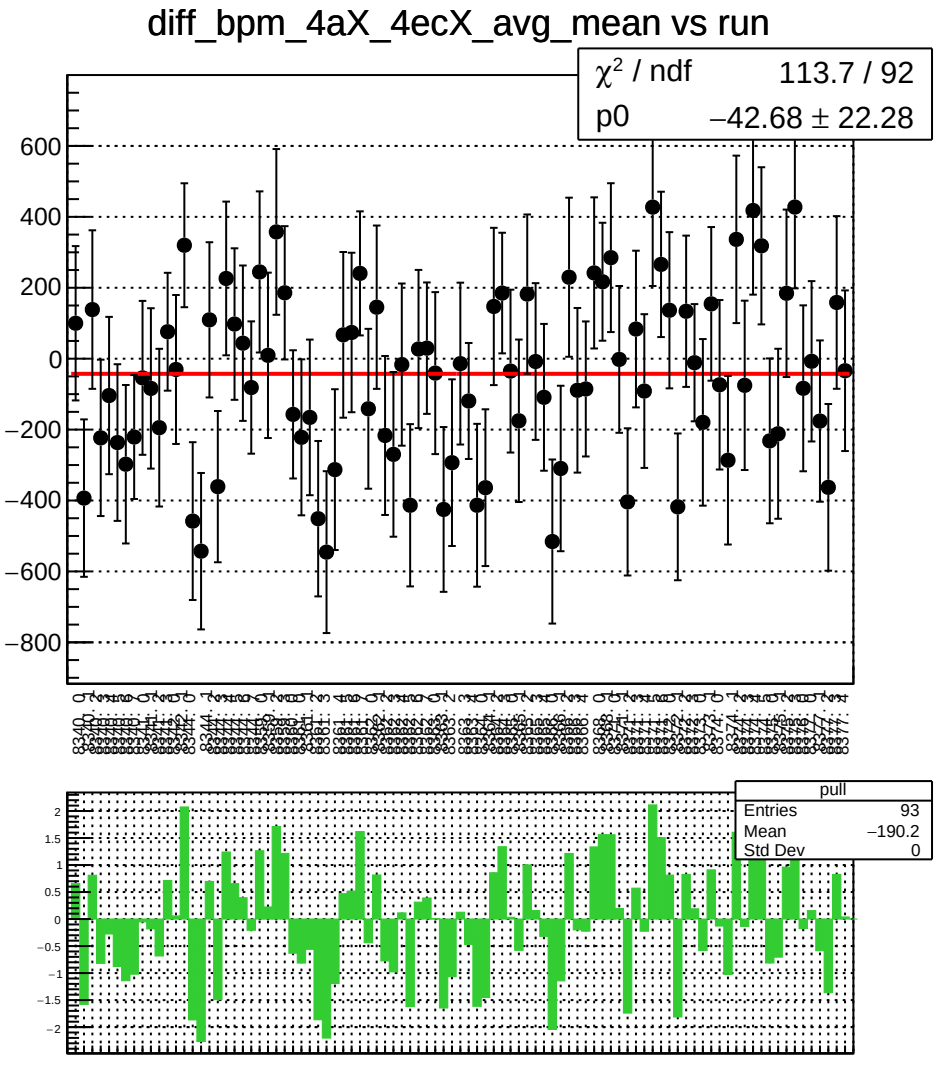

pull1D
Entries 93
Mean −0.02234
Std Dev 1.105

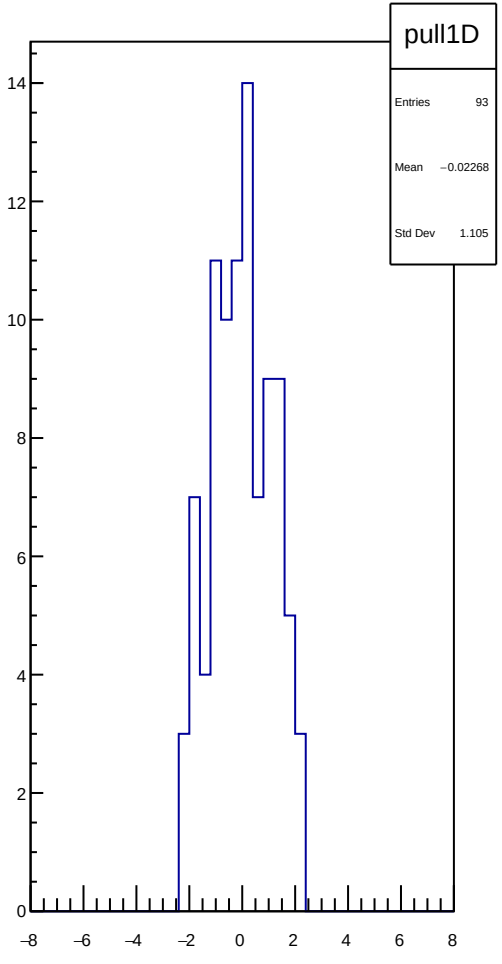

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 2654 / 92
p0 2.12e+04 ± 15.67
23500
23000
22500
22000
21500
21000
20500
20000
19500
19000

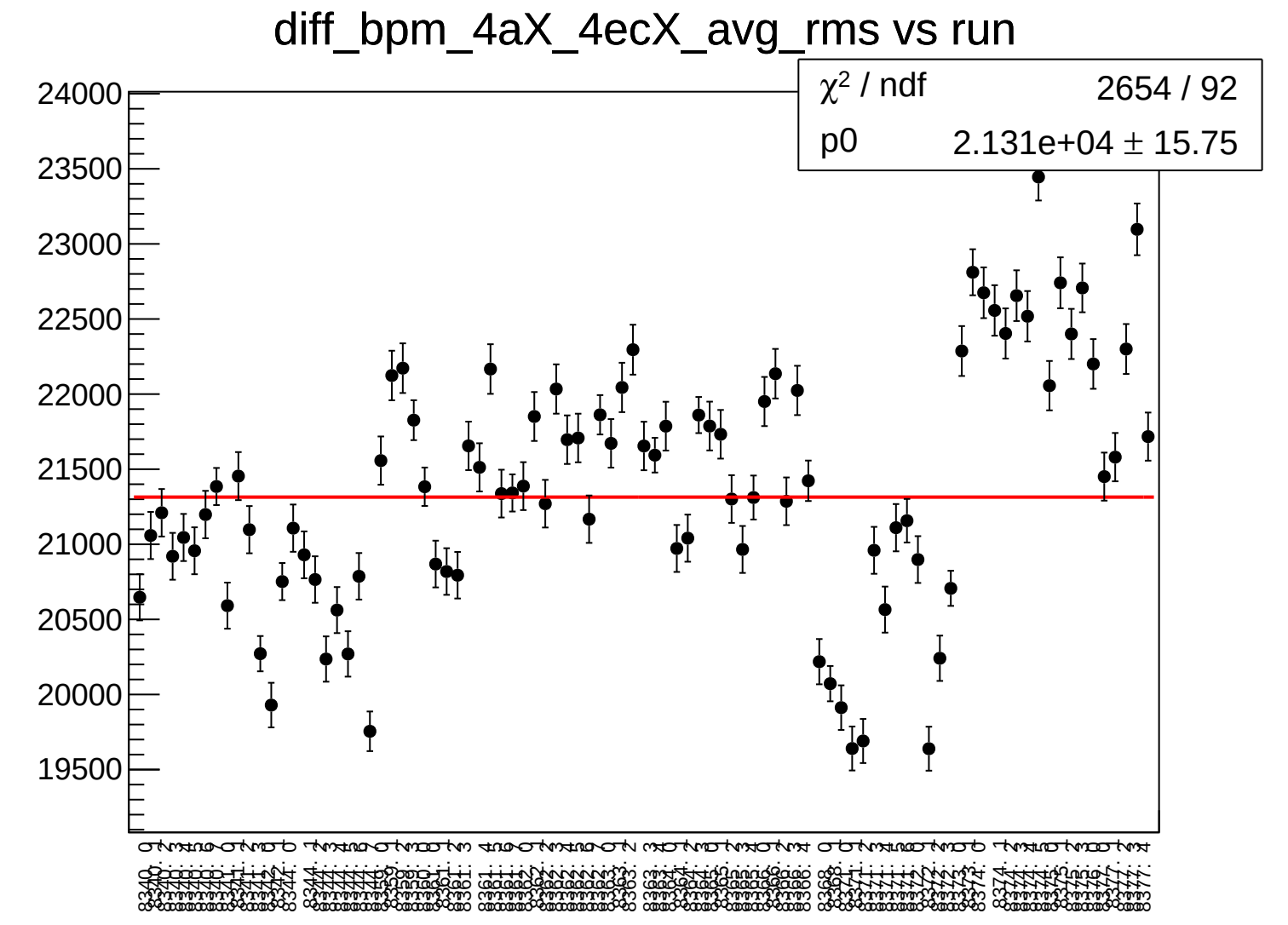

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 109.2 / 92
p0 −3.967 ± 0.9179
pull
Entries 93
Mean −96.58
Std Dev 0

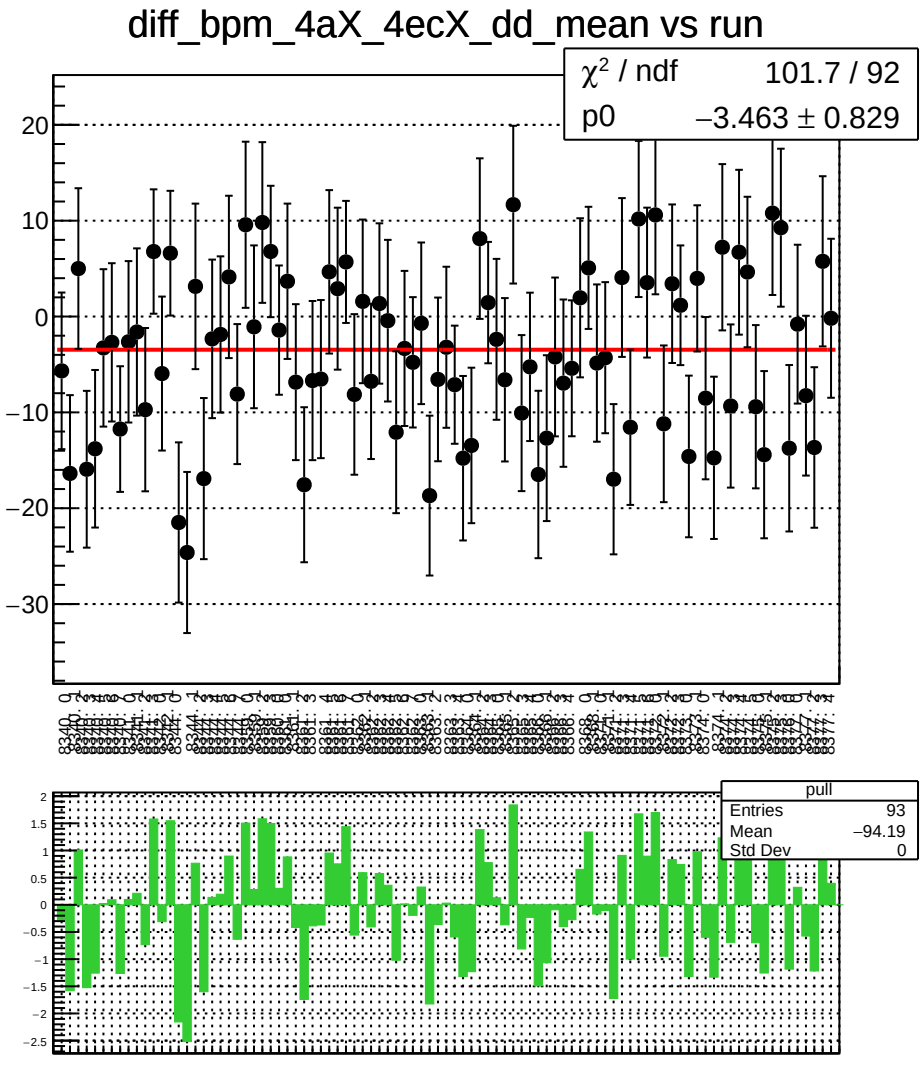

pull1D
Entries 93
Mean −0.02945
Std Dev 1.083

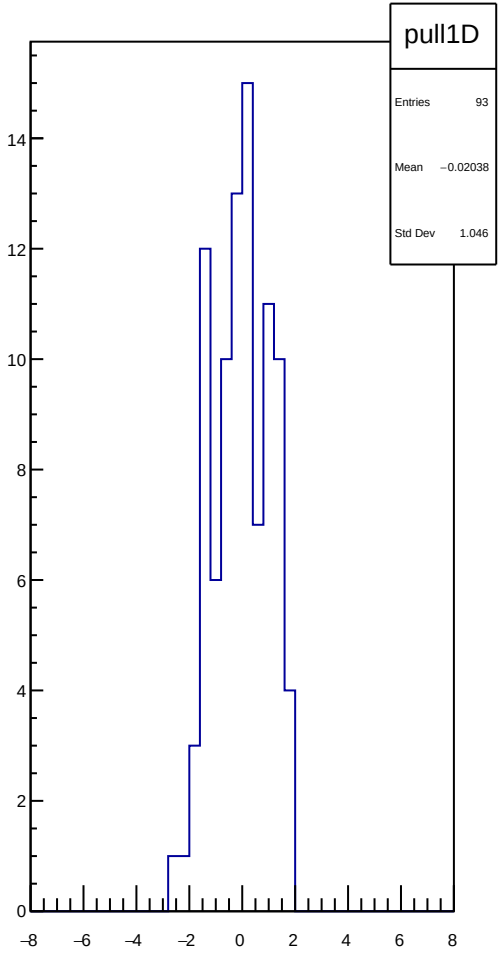

diff_bpm_4aX_4eX_dd_rms vs run
χ^2 / ndf 1156 / 92
p0 878.6 ± 0.649
940
920
900
880
860
840
820

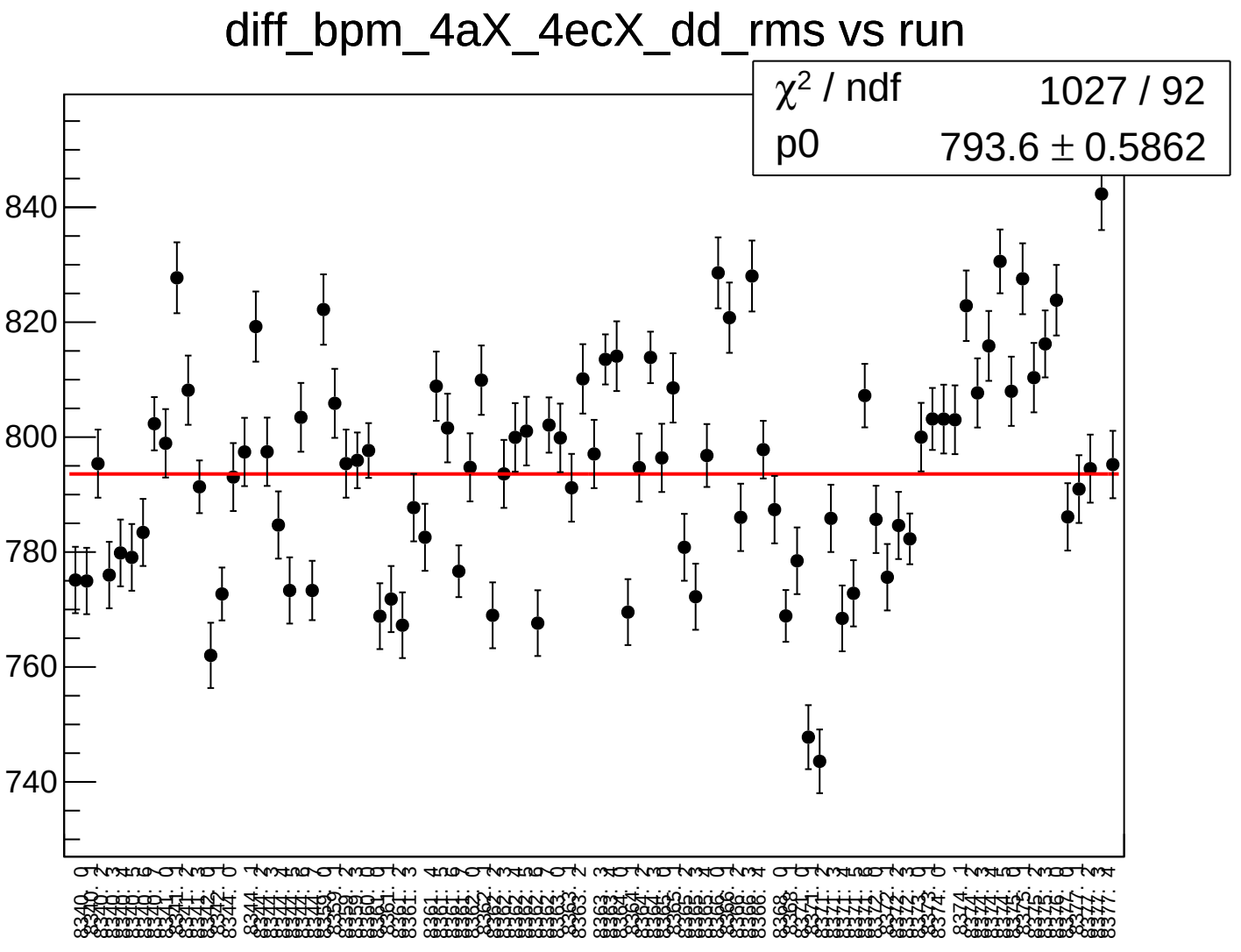

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 113.7 / 92
p0 −42.68 ± 22.28
pull
Entries 93
Mean −190.2
Std Dev 0

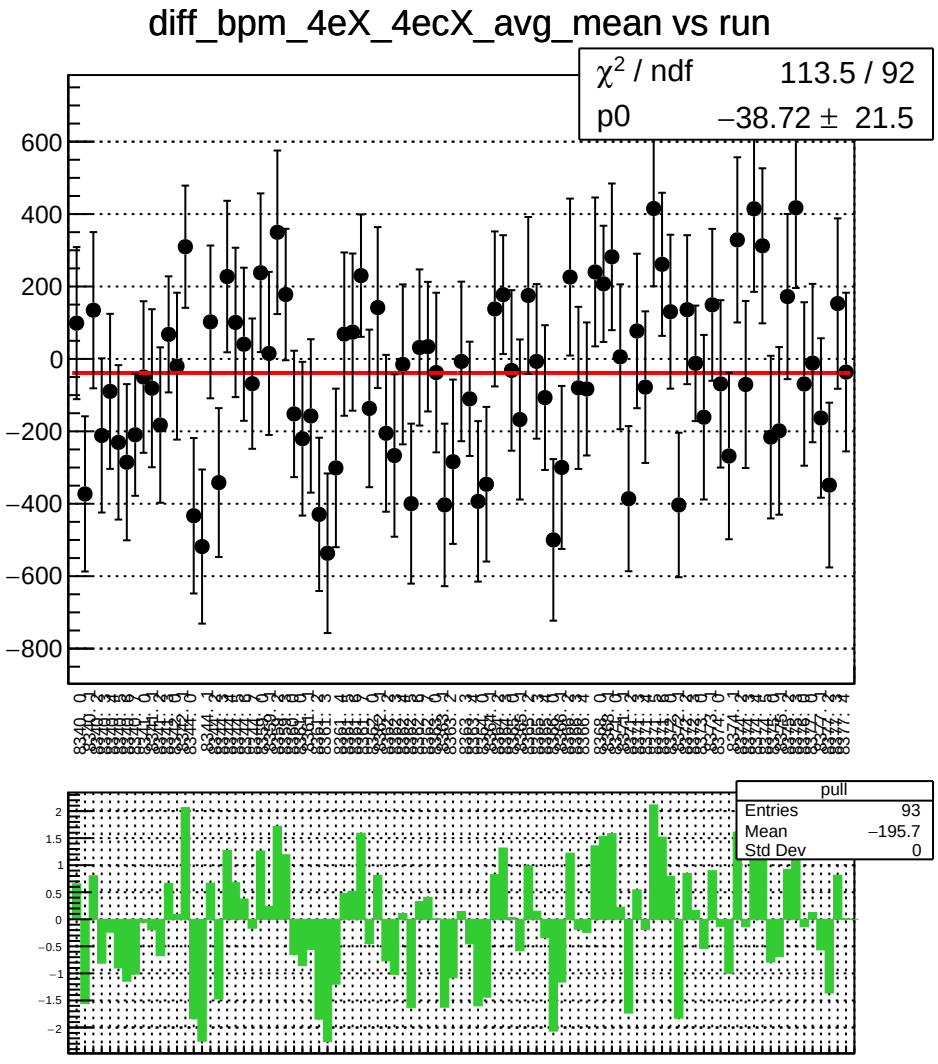

pull1D
Entries 93
Mean −0.02268
Std Dev 1.105

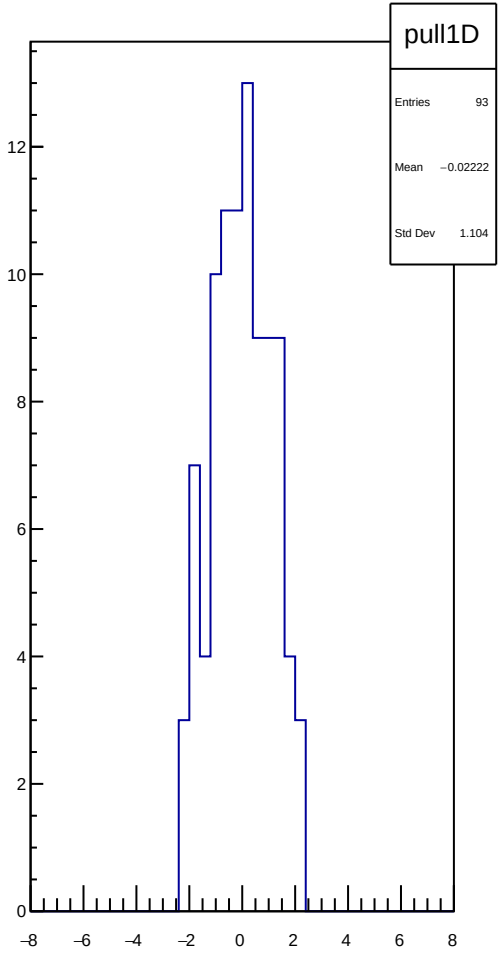

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 2654 / 92
p0 2.131e+04 ± 15.75
24000
23500
23000
22500
22000
21500
21000
20500
20000
19500

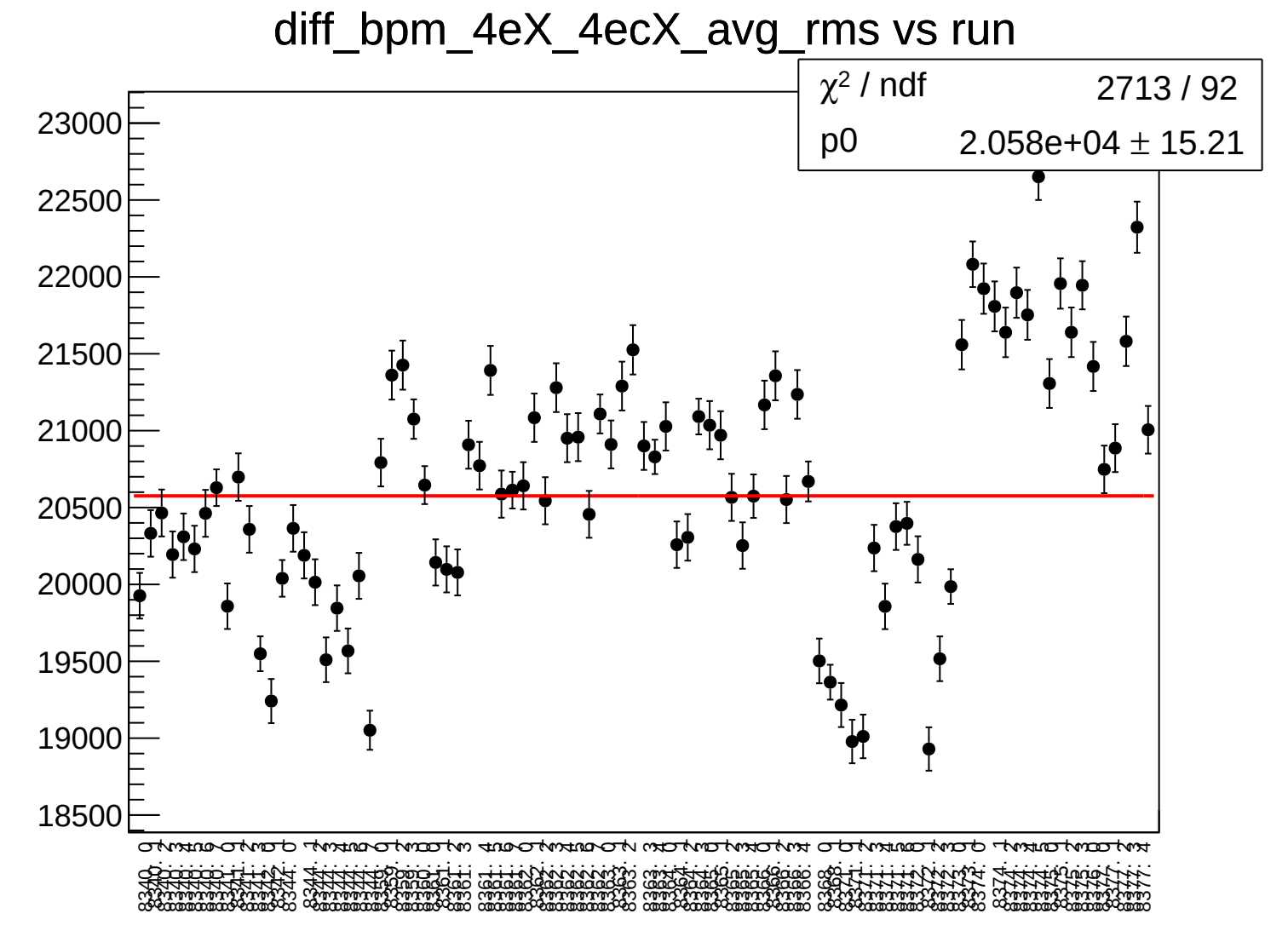

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 101.7 / 92
p0 −3.463 ± 0.829
pull
Entries 93
Mean −94.19
Std Dev 0

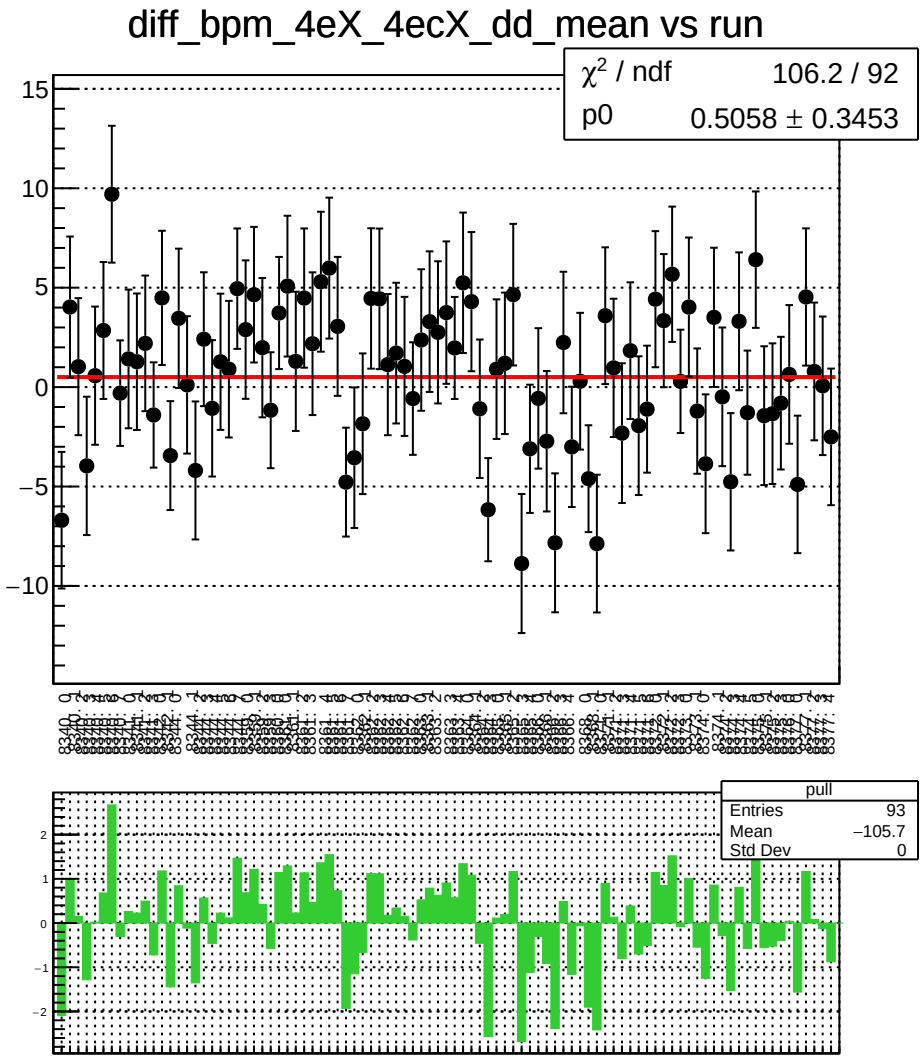

pull1D
Entries 93
Mean −0.02038
Std Dev 1.046

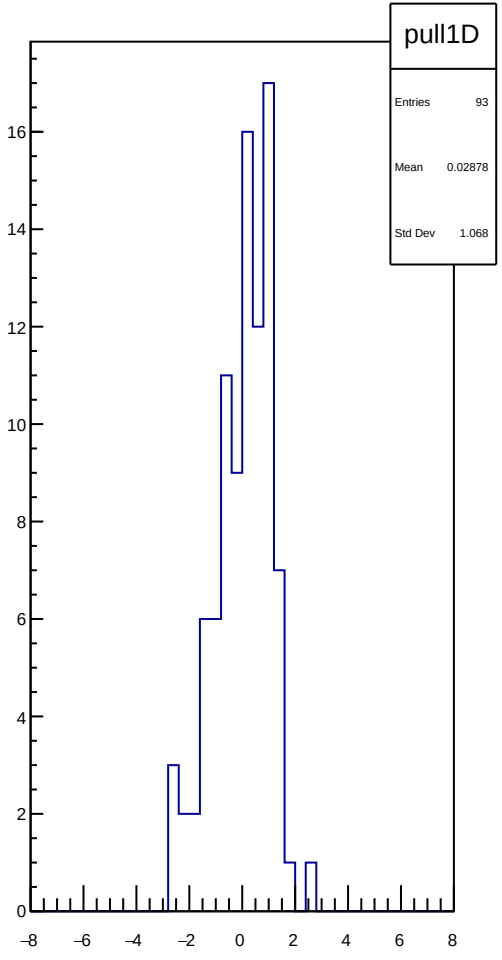

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1027 / 92
p0 793.6 ± 0.5862
840
820
800
780
760
740

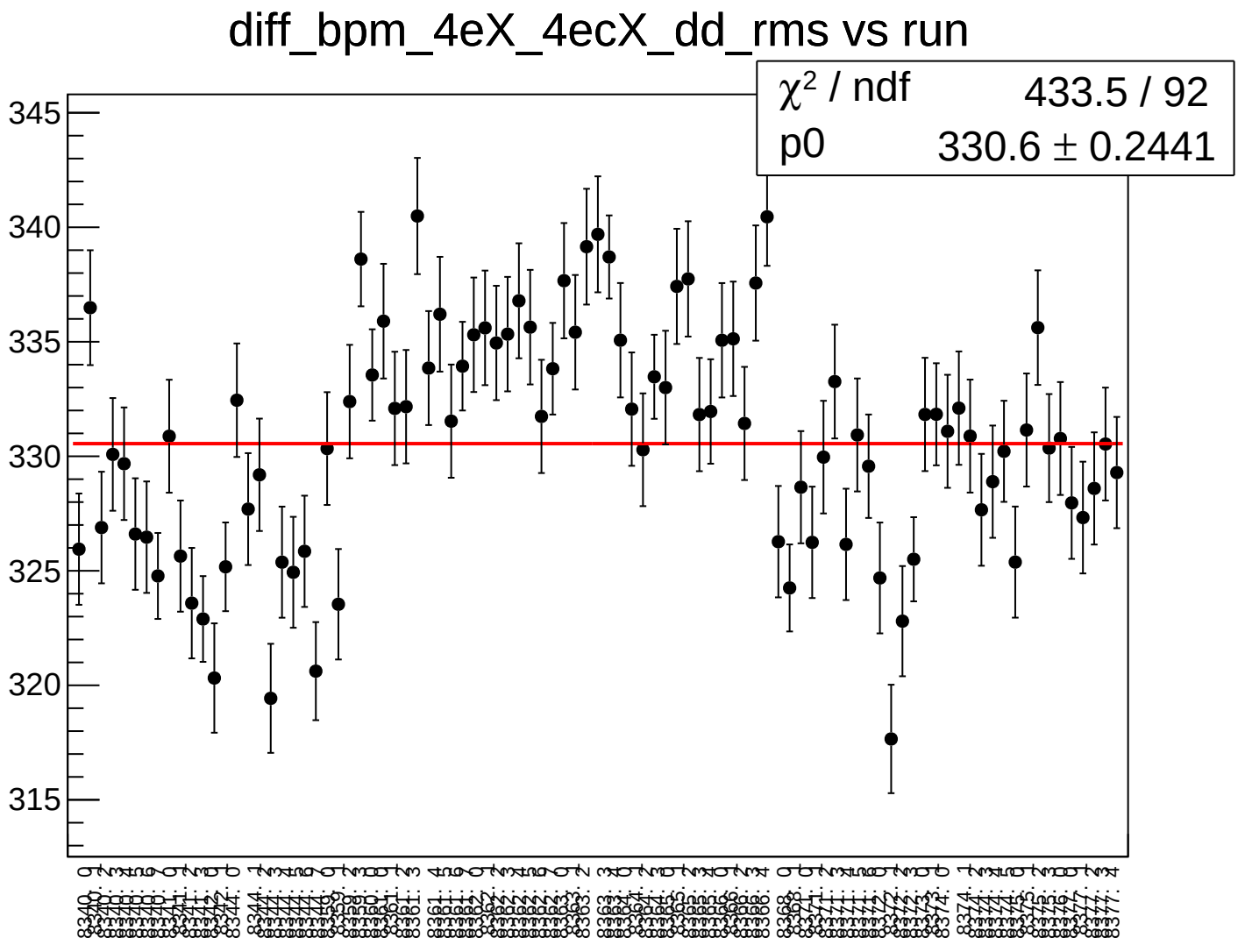

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 113.5 / 92
p0 −38.72 ± 21.5
pull
Entries 93
Mean −195.7
Std Dev 0

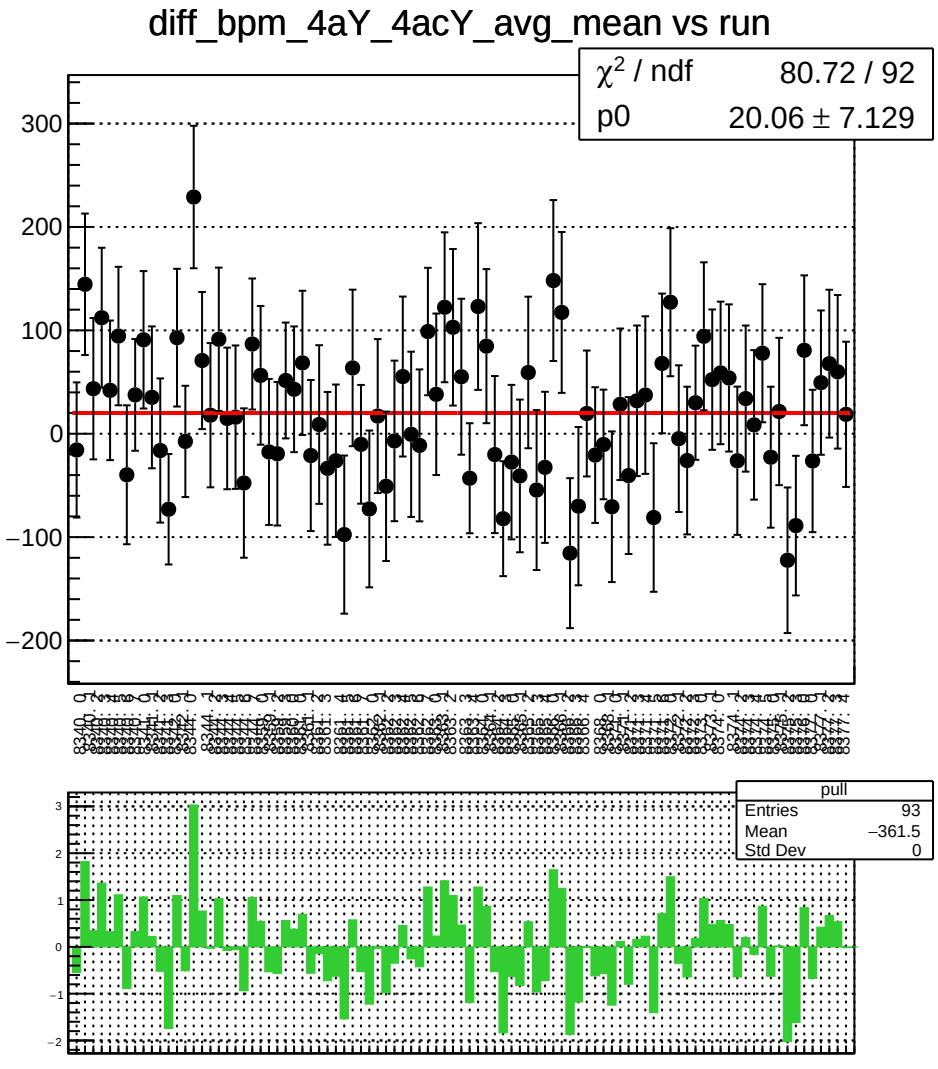

pull1D
Entries 93
Mean −0.02222
Std Dev 1.104

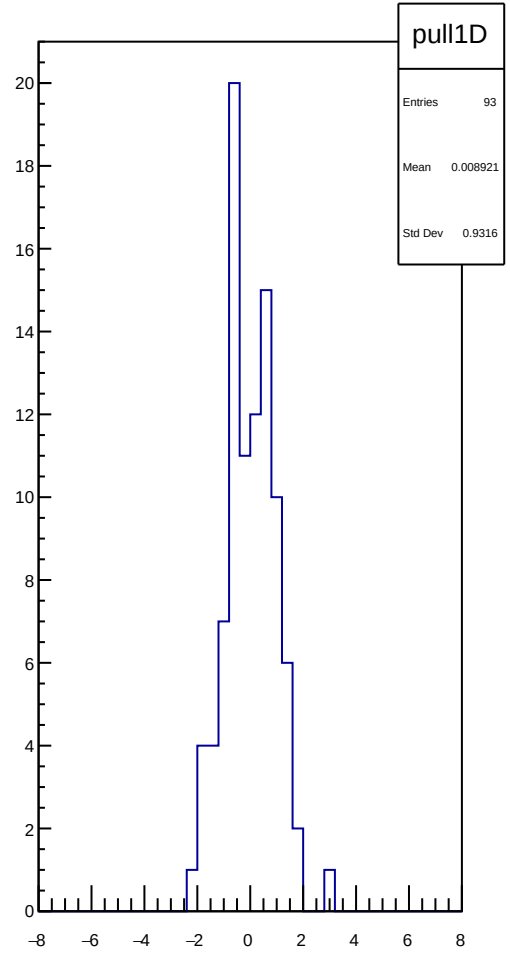

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 2713 / 92
p0 2.058e+04 ± 15.21
23000
22500
22000
21500
21000
20500
20000
19500
19000
18500

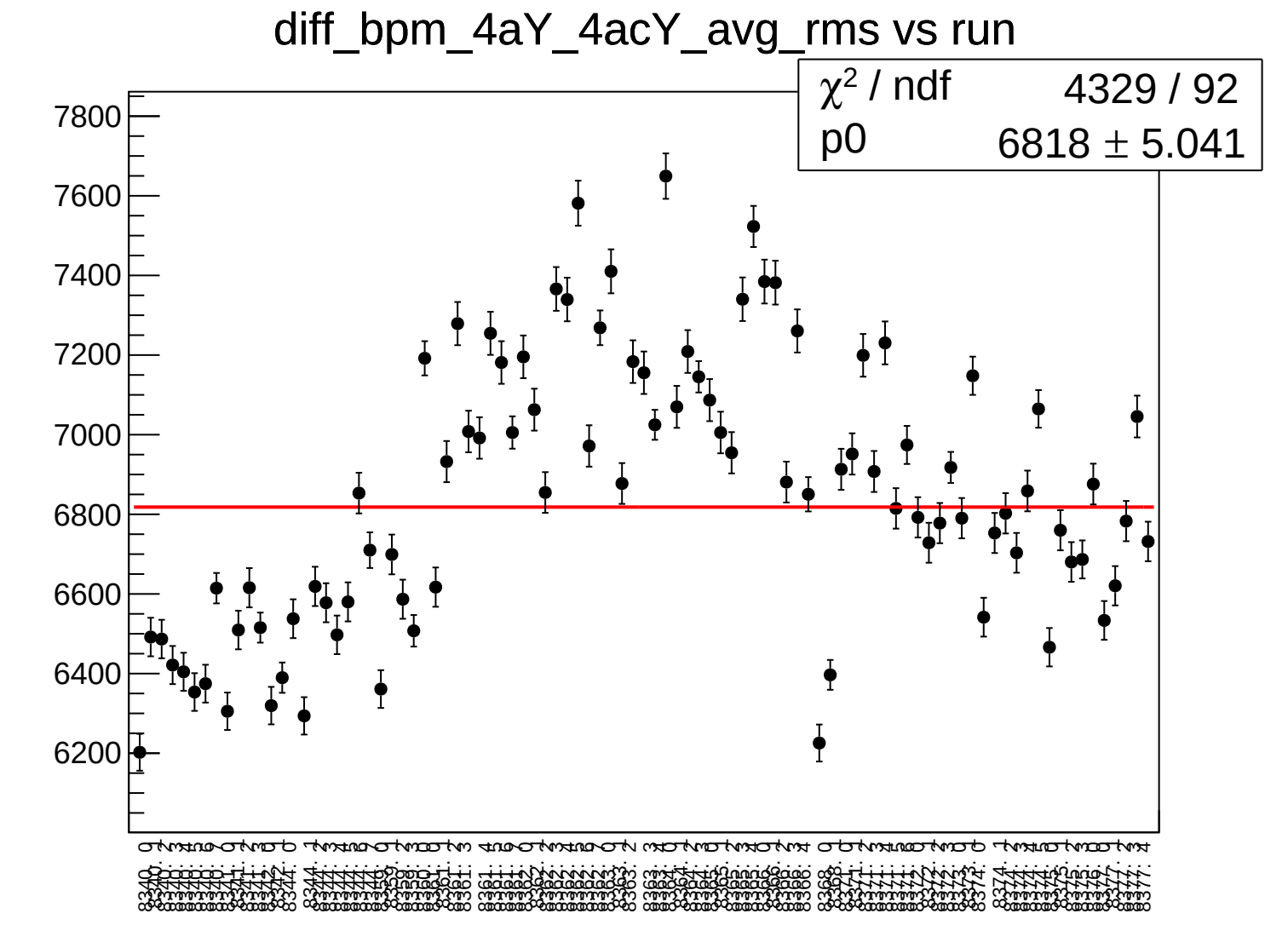

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 106.2 / 92
p0 0.5058 ± 0.3453
pull
Entries 93
Mean −105.7
Std Dev 0

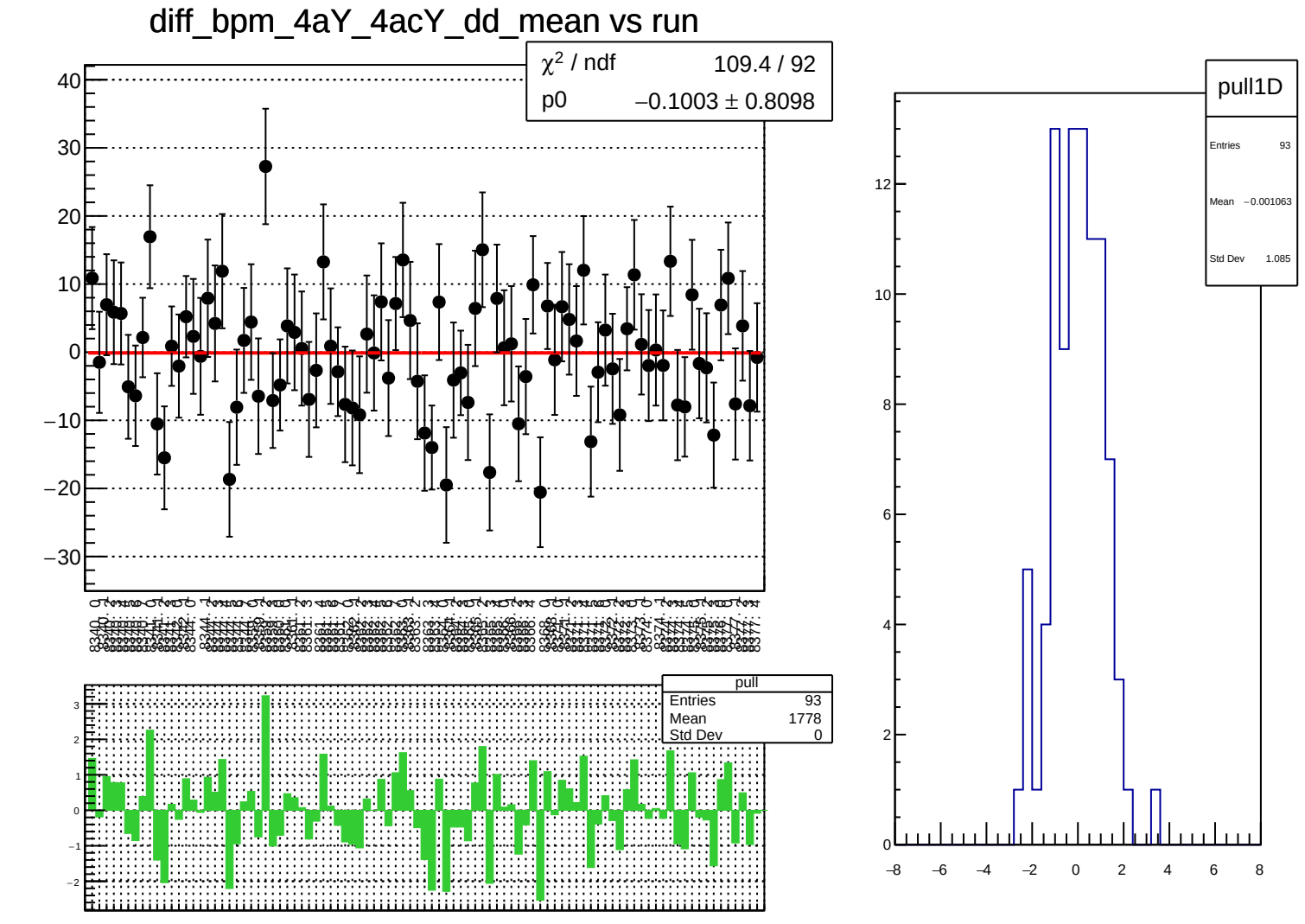

pull1D
Entries 93
Mean 0.02878
Std Dev 1.068

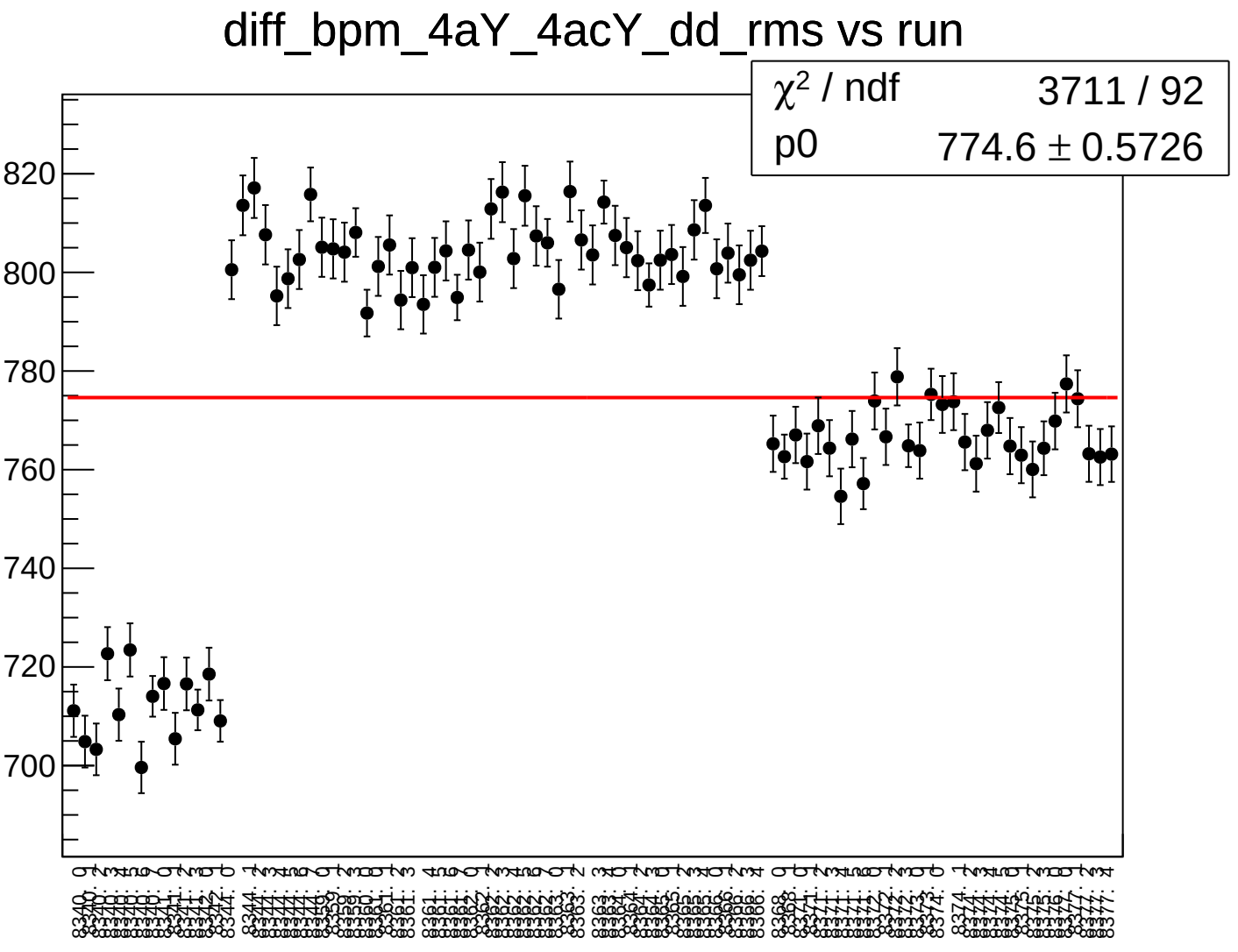

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 433.5 / 92
p0 330.6 ± 0.2441
345
340
335
330
325
320
315

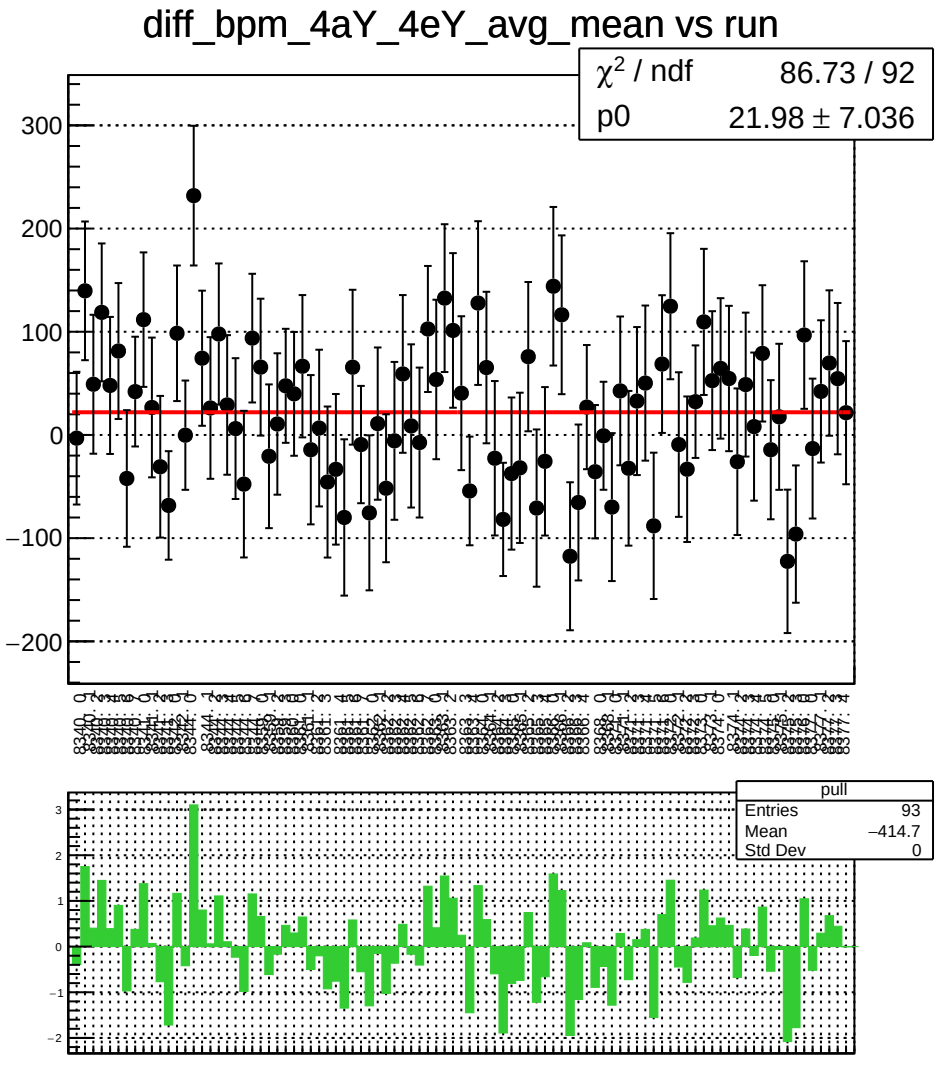

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 80.72 / 92
p0 20.06 ± 7.129
pull
Entries 93
Mean −361.5
Std Dev 0

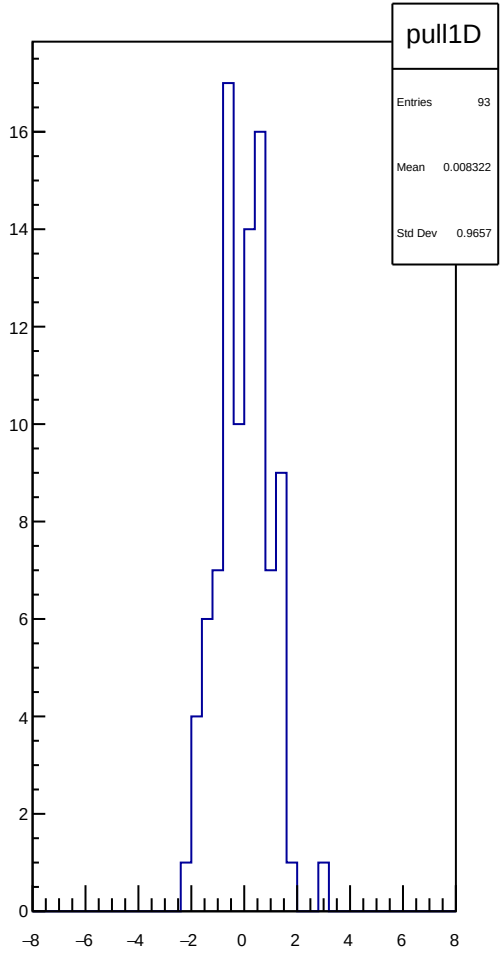

pull1D
Entries 93
Mean 0.008921
Std Dev 0.9316

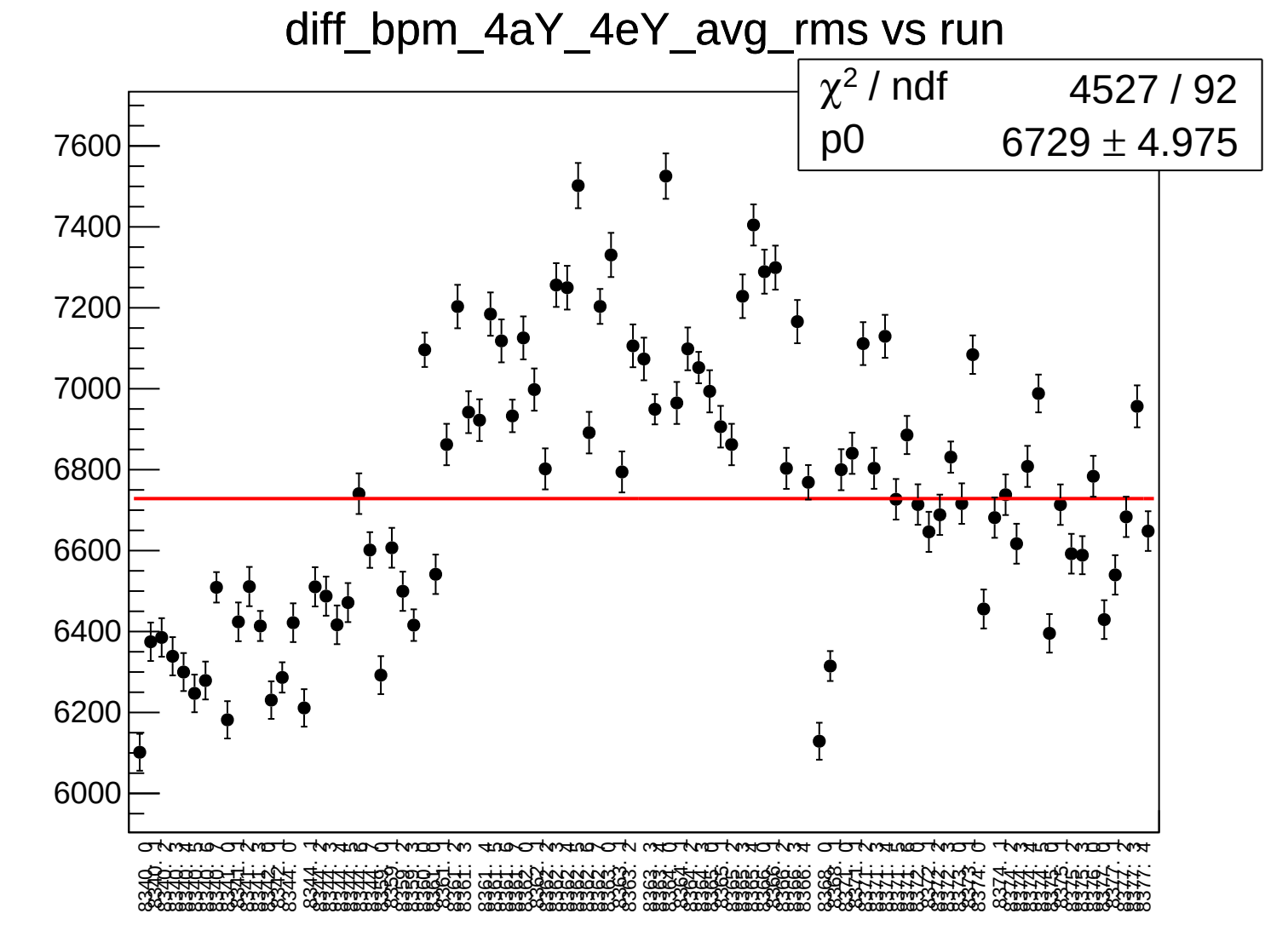

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 4329 / 92
p0 6818 ± 5.041
7800
7600
7400
7200
7000
6800
6600
6400
6200

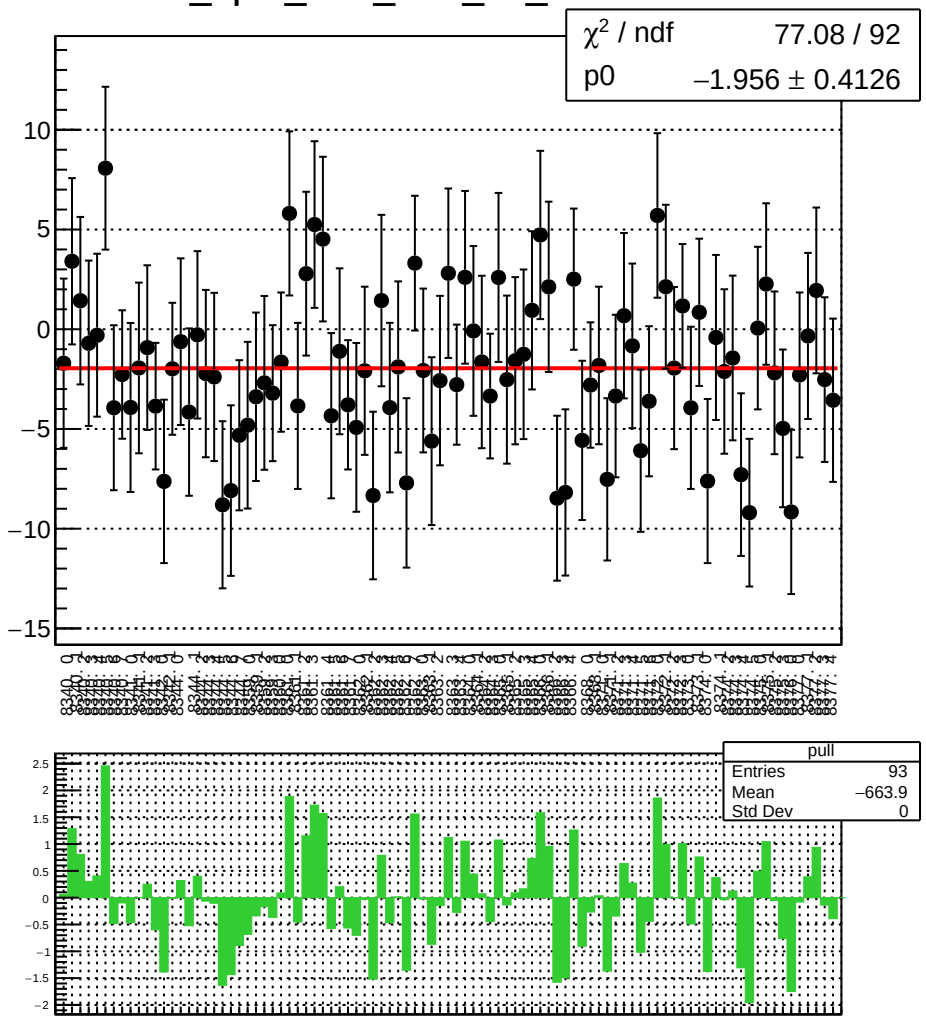

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 109.4 / 92
p0 −0.1003 ± 0.8098
pull
Entries 93
Mean 1778
Std Dev 0
pull1D
Entries 93
Mean −0.001063
Std Dev 1.085

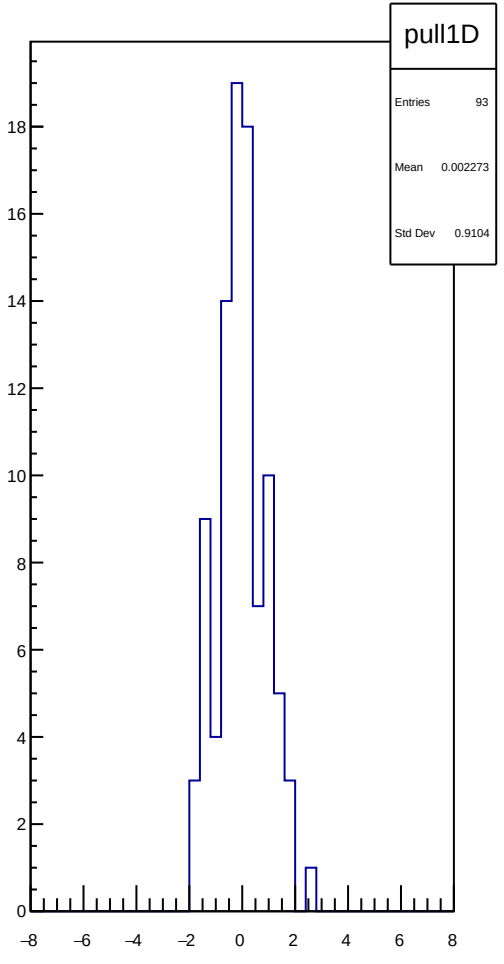

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 3711 / 92
p0 774.6 ± 0.5726
820
800
780
760
740
720
700

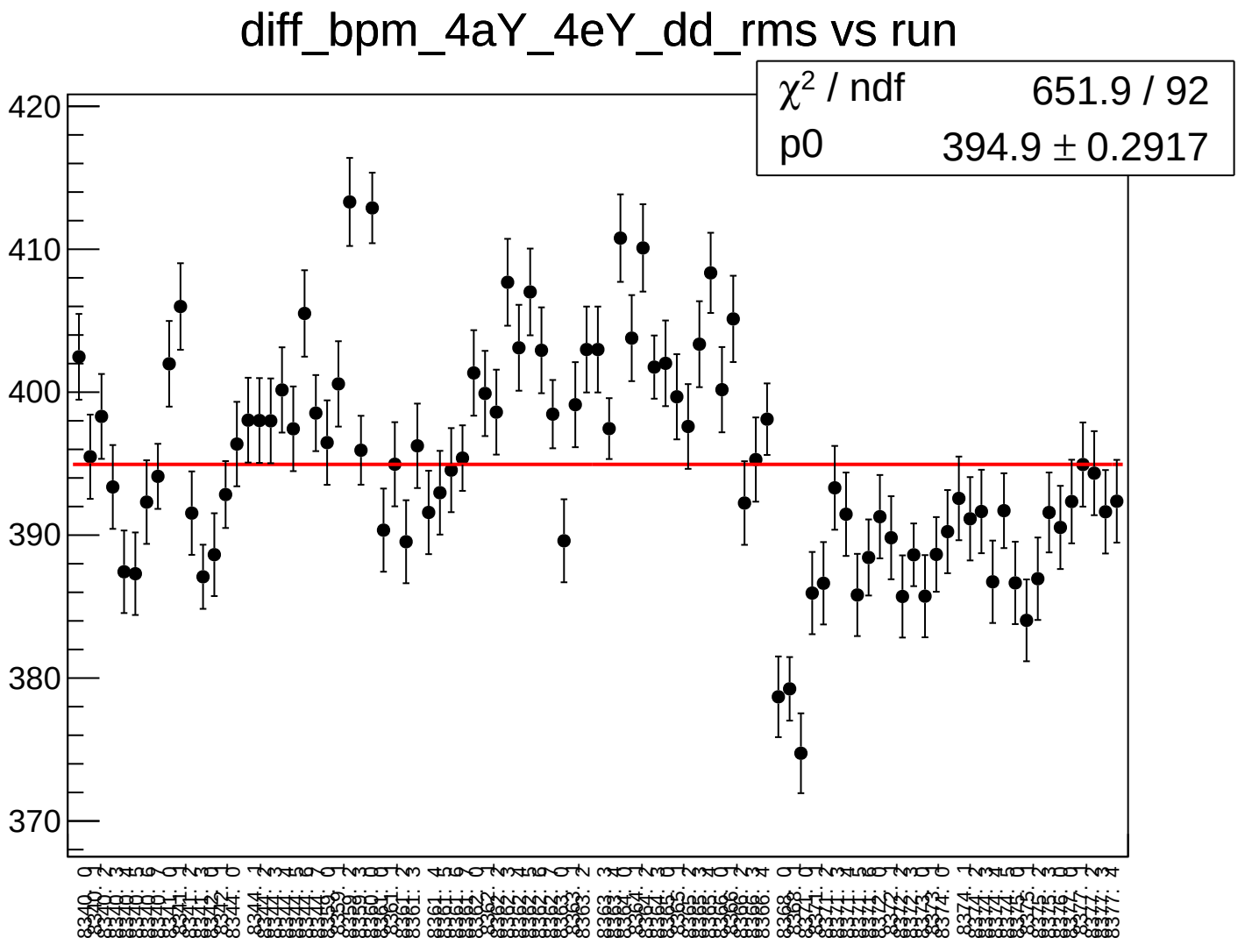

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 86.73 / 92
p0 21.98 ± 7.036
300
200
100
0
−100
−200
pull
Entries 93
Mean −414.7
Std Dev 0
3
2
1
0
−1
−2

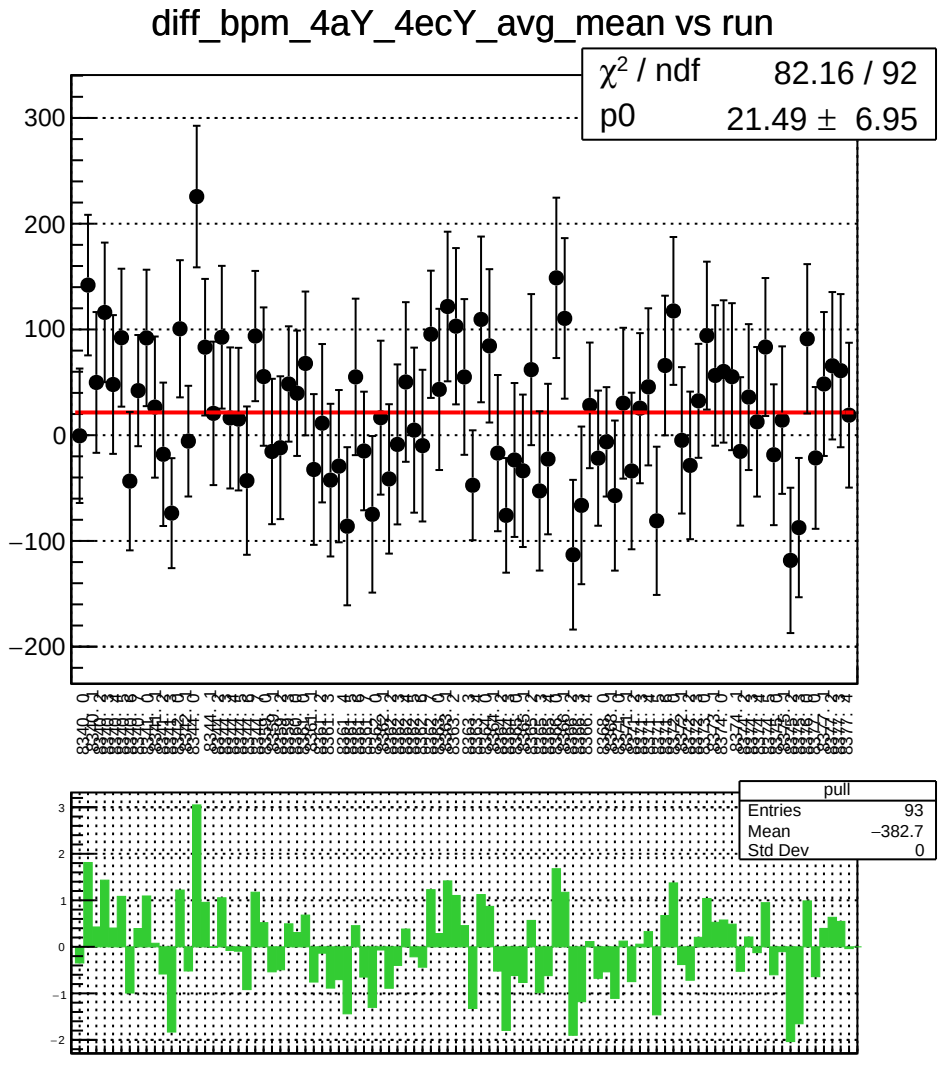

pull1D
Entries 93
Mean 0.008322
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

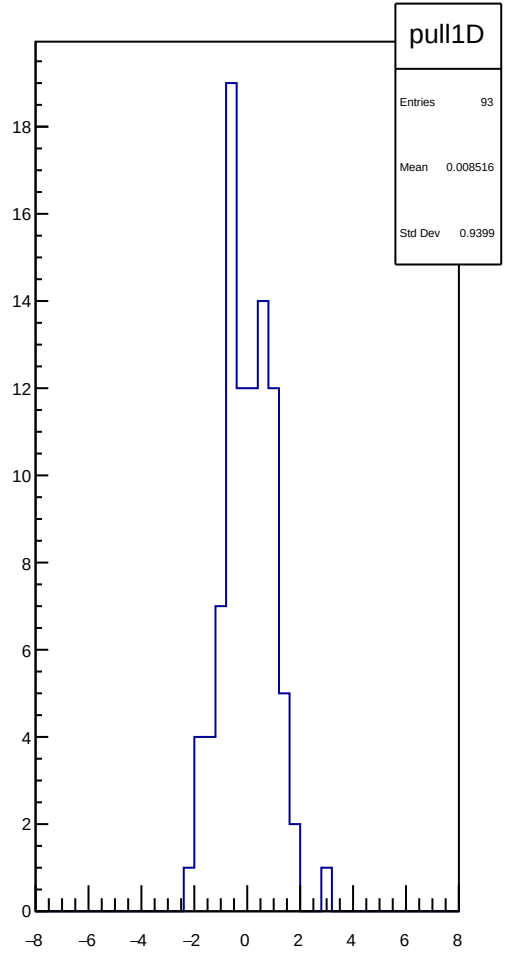

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 4527 / 92
p0 6729 ± 4.975
7600
7400
7200
7000
6800
6600
6400
6200
6000

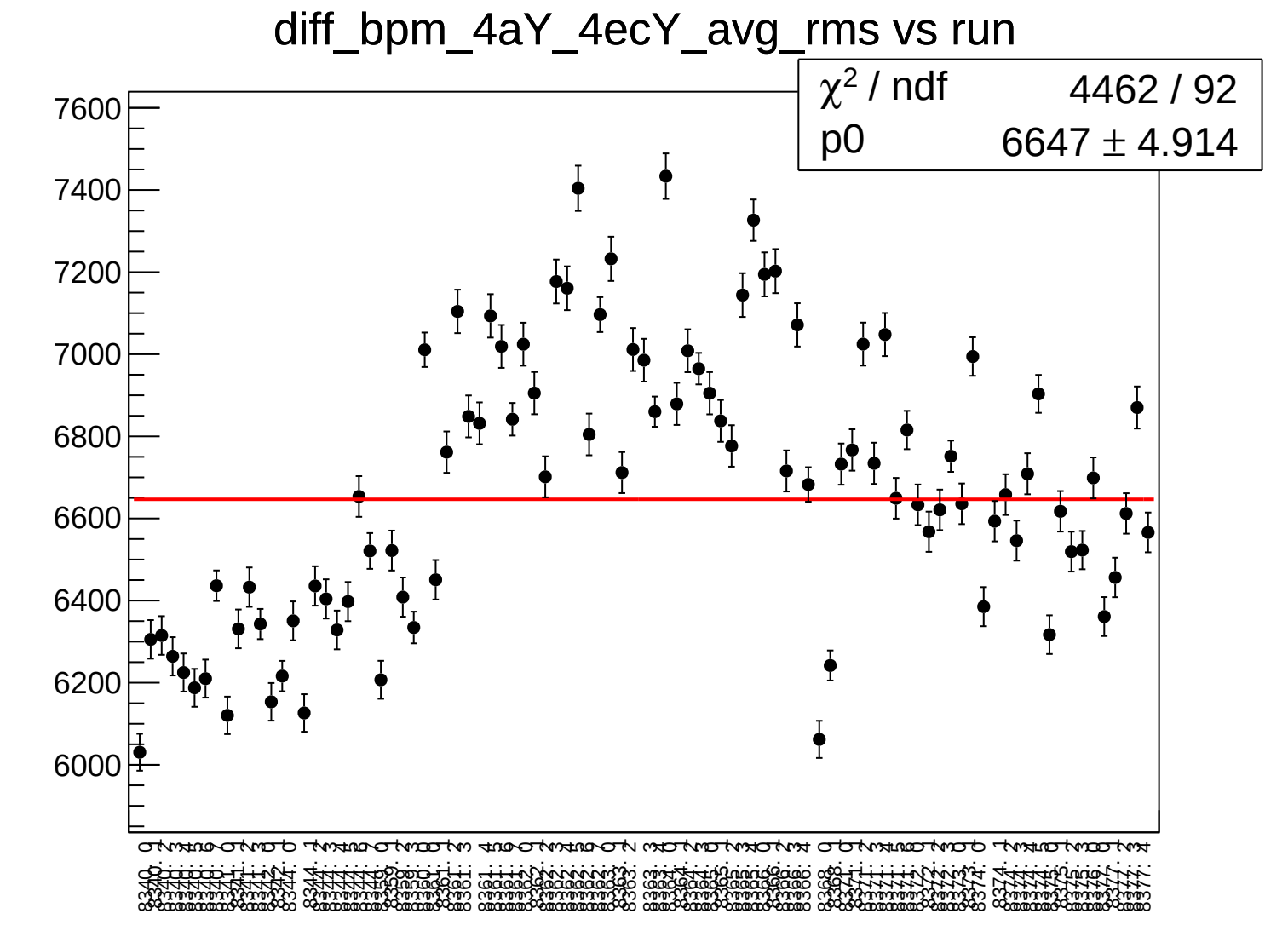

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 77.08 / 92
p0 −1.956 ± 0.4126
pull
Entries 93
Mean −663.9
Std Dev 0

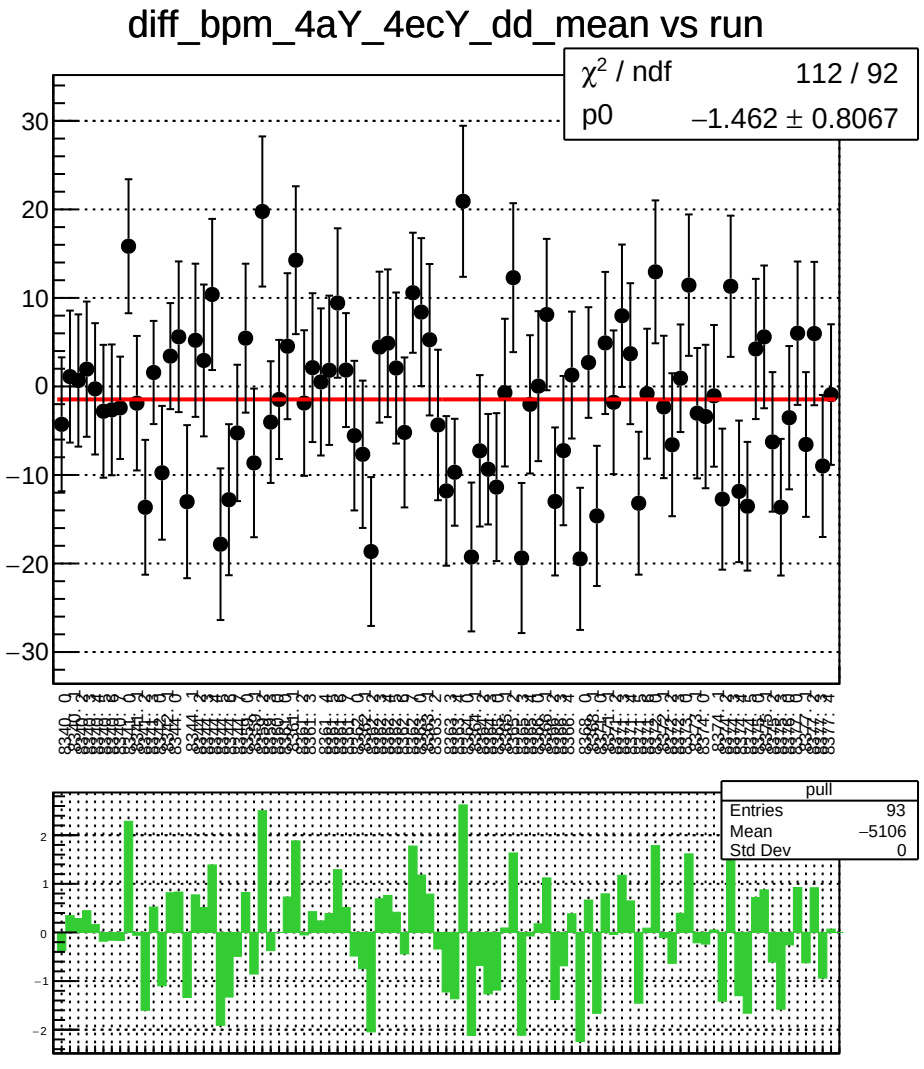

pull1D
Entries 93
Mean 0.002273
Std Dev 0.9104

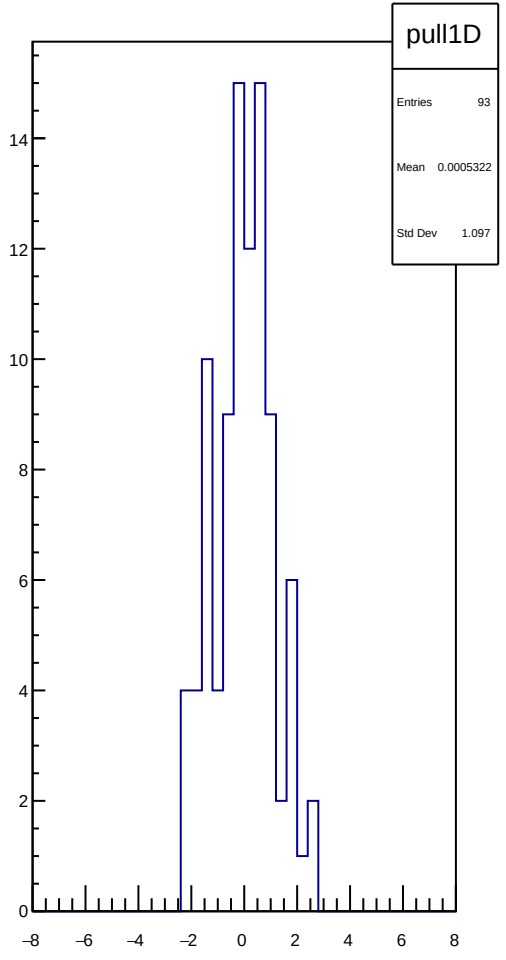

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 651.9 / 92
p0 394.9 ± 0.2917
420
410
400
390
380
370

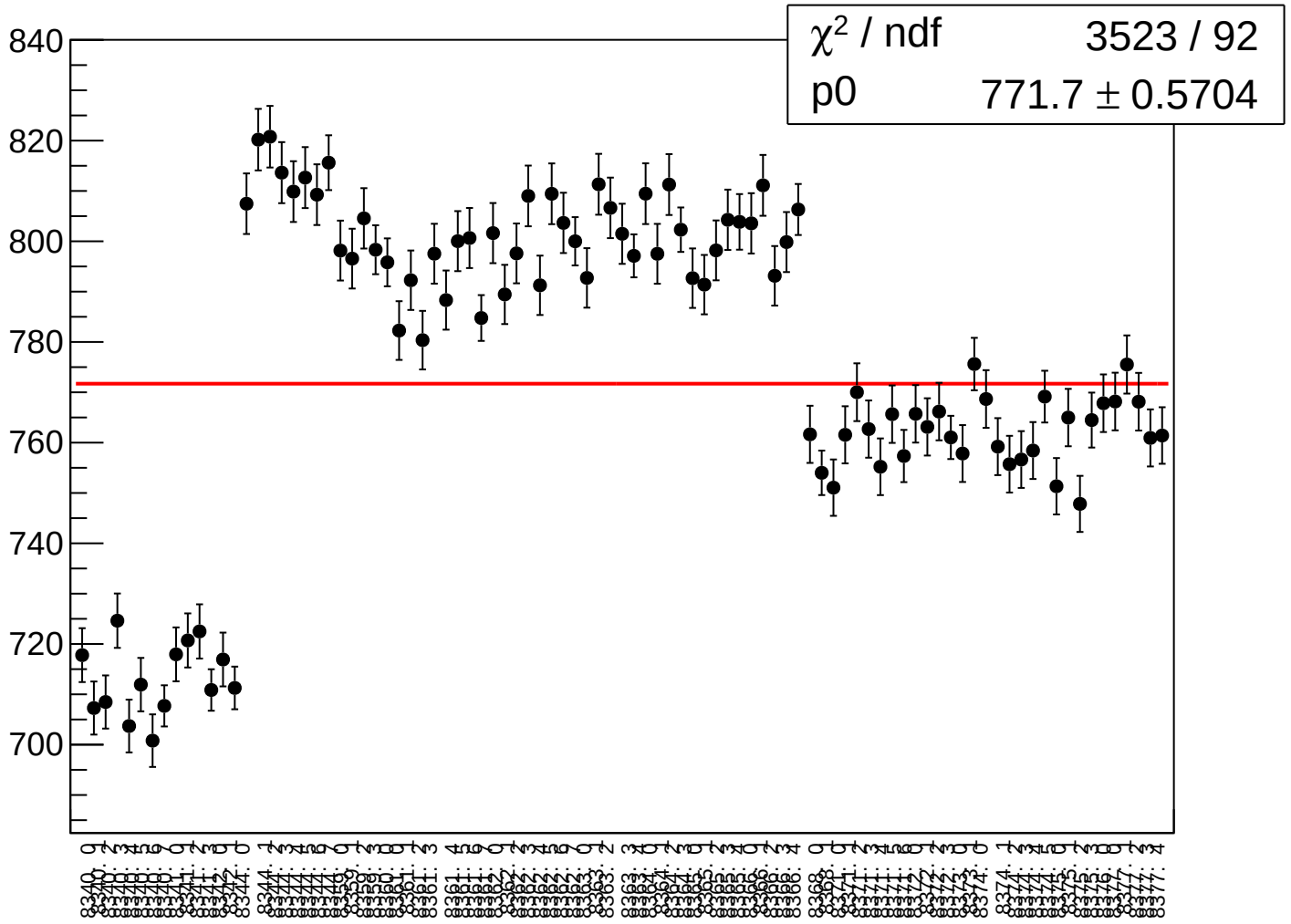

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 82.16 / 92
p0 21.49 ± 6.95
300
200
100
0
−100
−200
pull
Entries 93
Mean −382.7
Std Dev 0
3
2
1
0
−1
−2

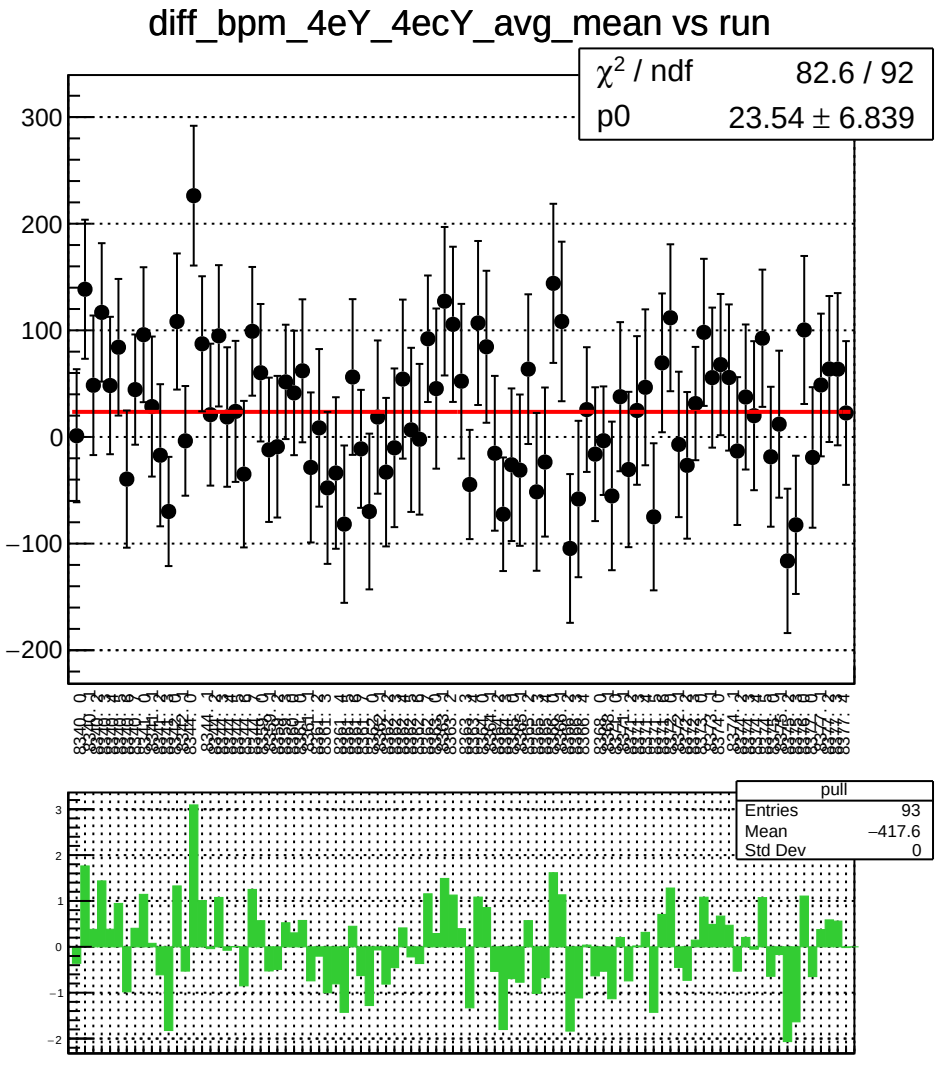

pull1D
Entries 93
Mean 0.008516
Std Dev 0.9399
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

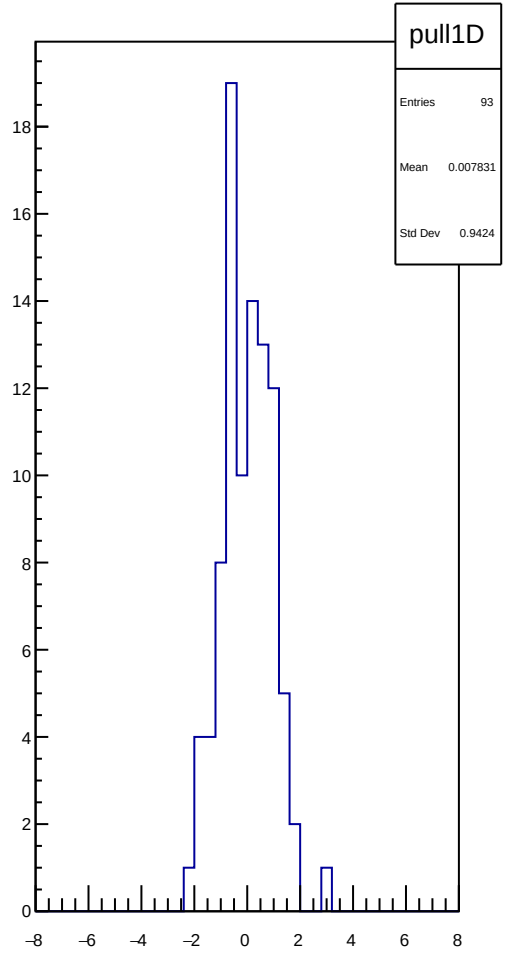

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 4462 / 92
p0 6647 ± 4.914
7600
7400
7200
7000
6800
6600
6400
6200
6000

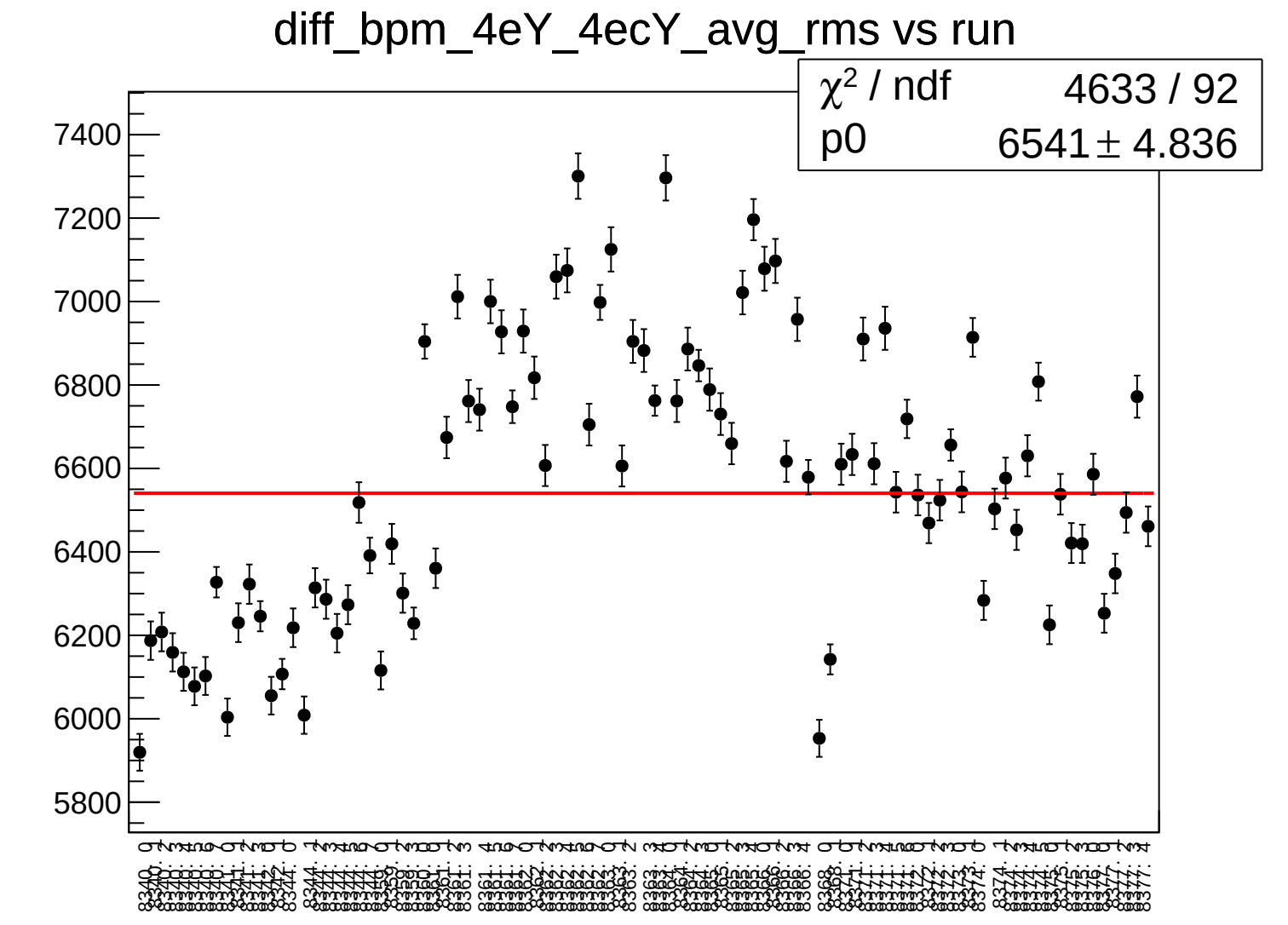

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 112 / 92
p0 −1.462 ± 0.8067
30
20
10
0
−10
−20
−30
pull
Entries 93
Mean −5106
Std Dev 0
2
1
0
−1
−2

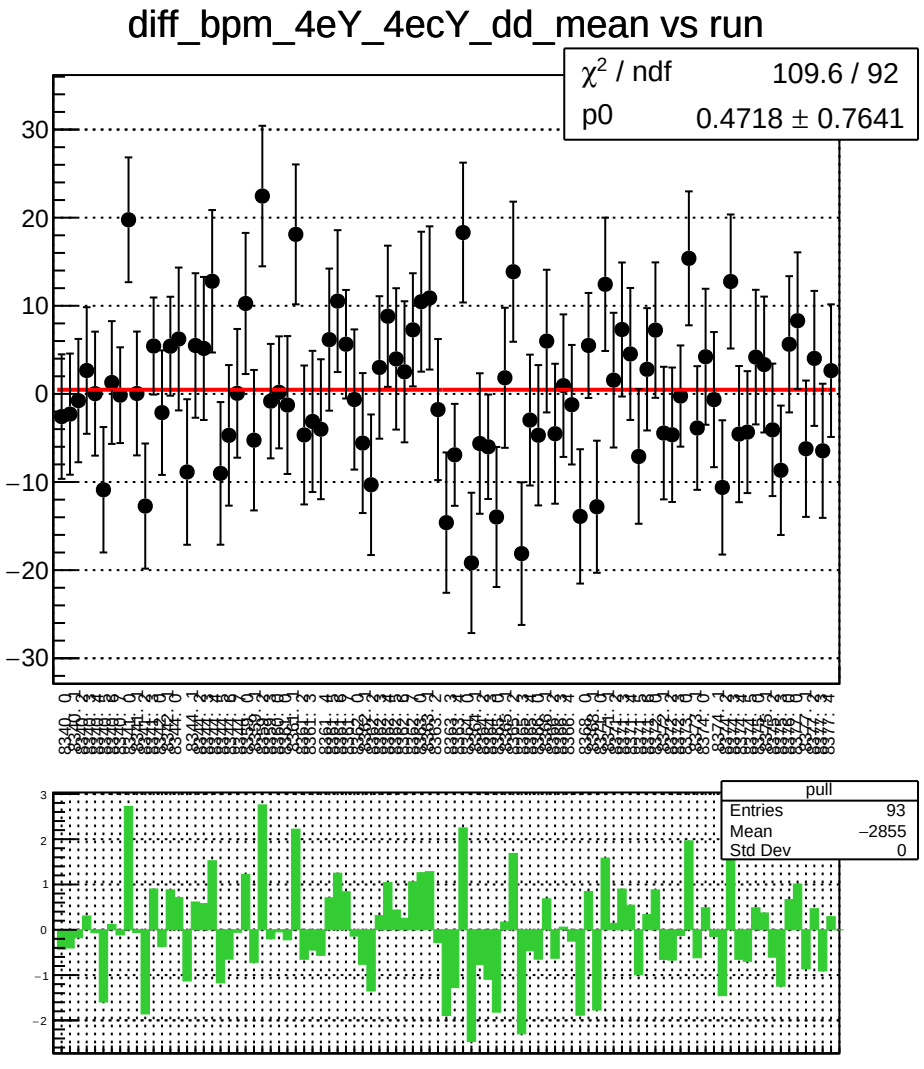

pull1D
Entries 93
Mean 0.0005322
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

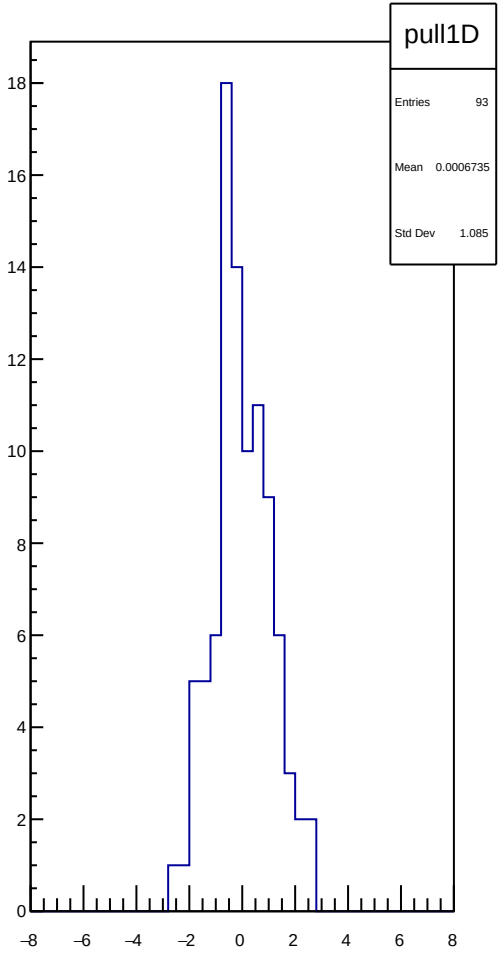

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 3523 / 92
p0 771.7 ± 0.5704
840
820
800
780
760
740
720
700

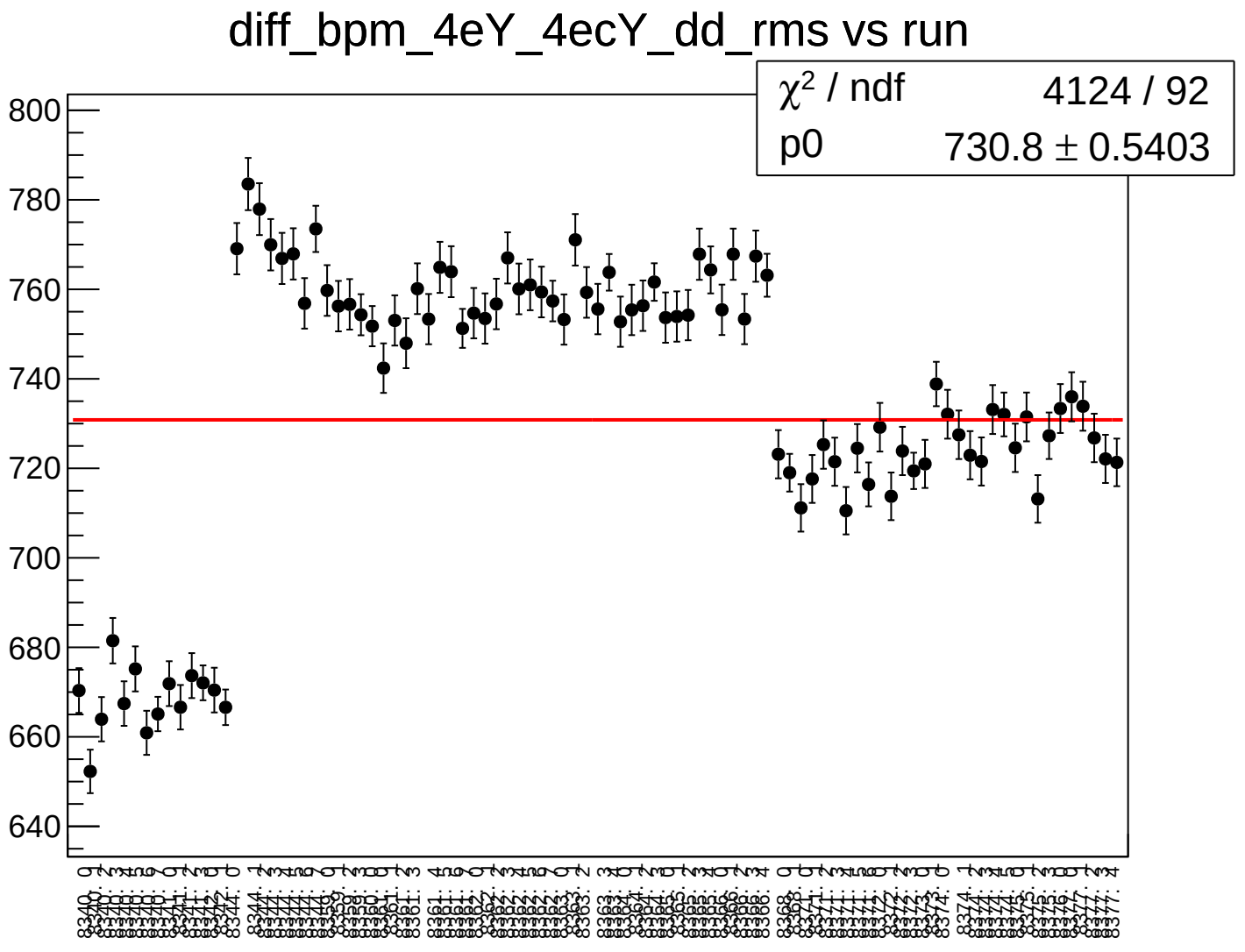

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 82.6 / 92
p0 23.54 ± 6.839
300
200
100
0
−100
−200
pull
Entries 93
Mean −417.6
Std Dev 0
3
2
1
0
−1
−2

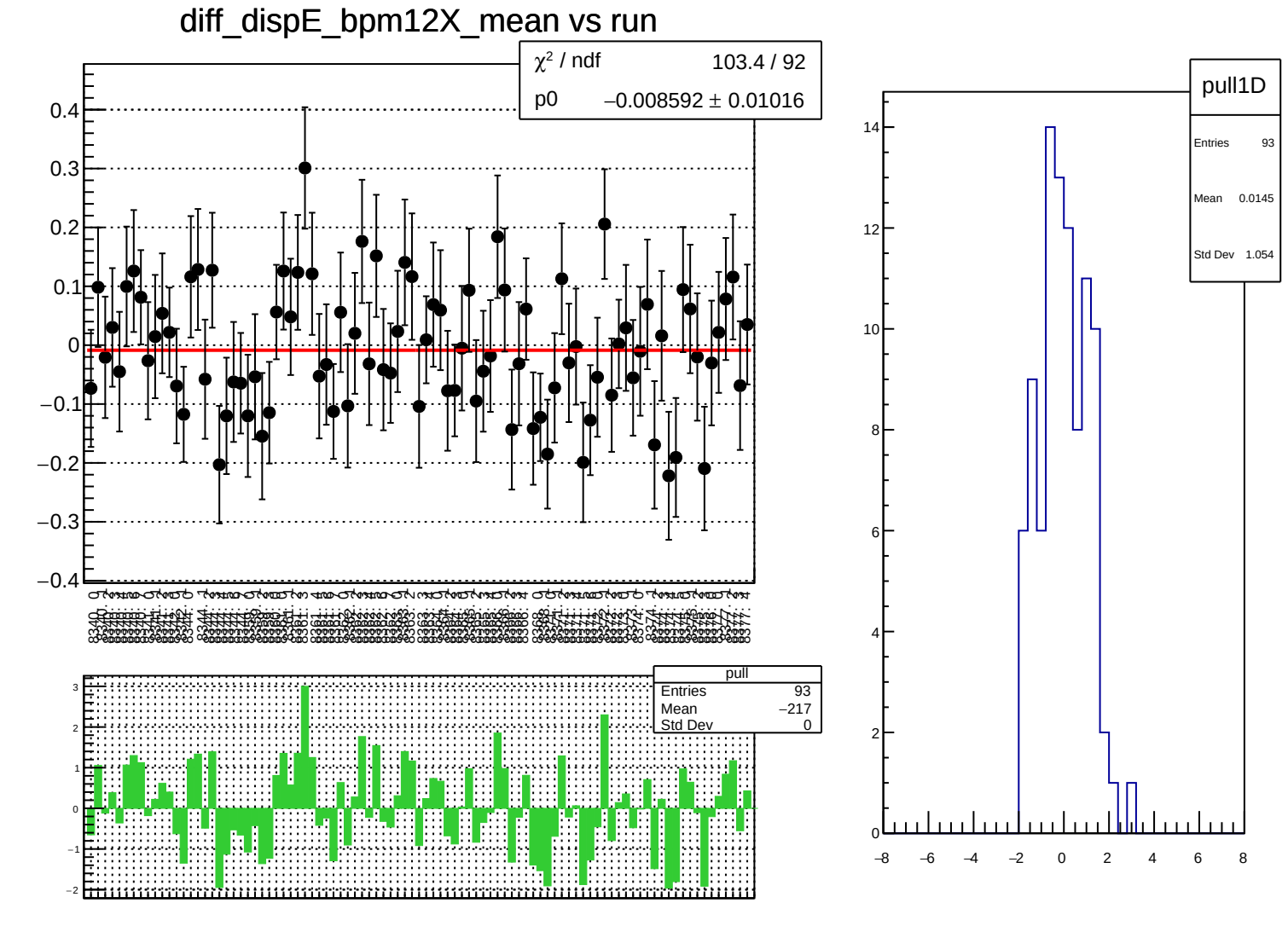

pull1D
Entries 93
Mean 0.007831
Std Dev 0.9424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

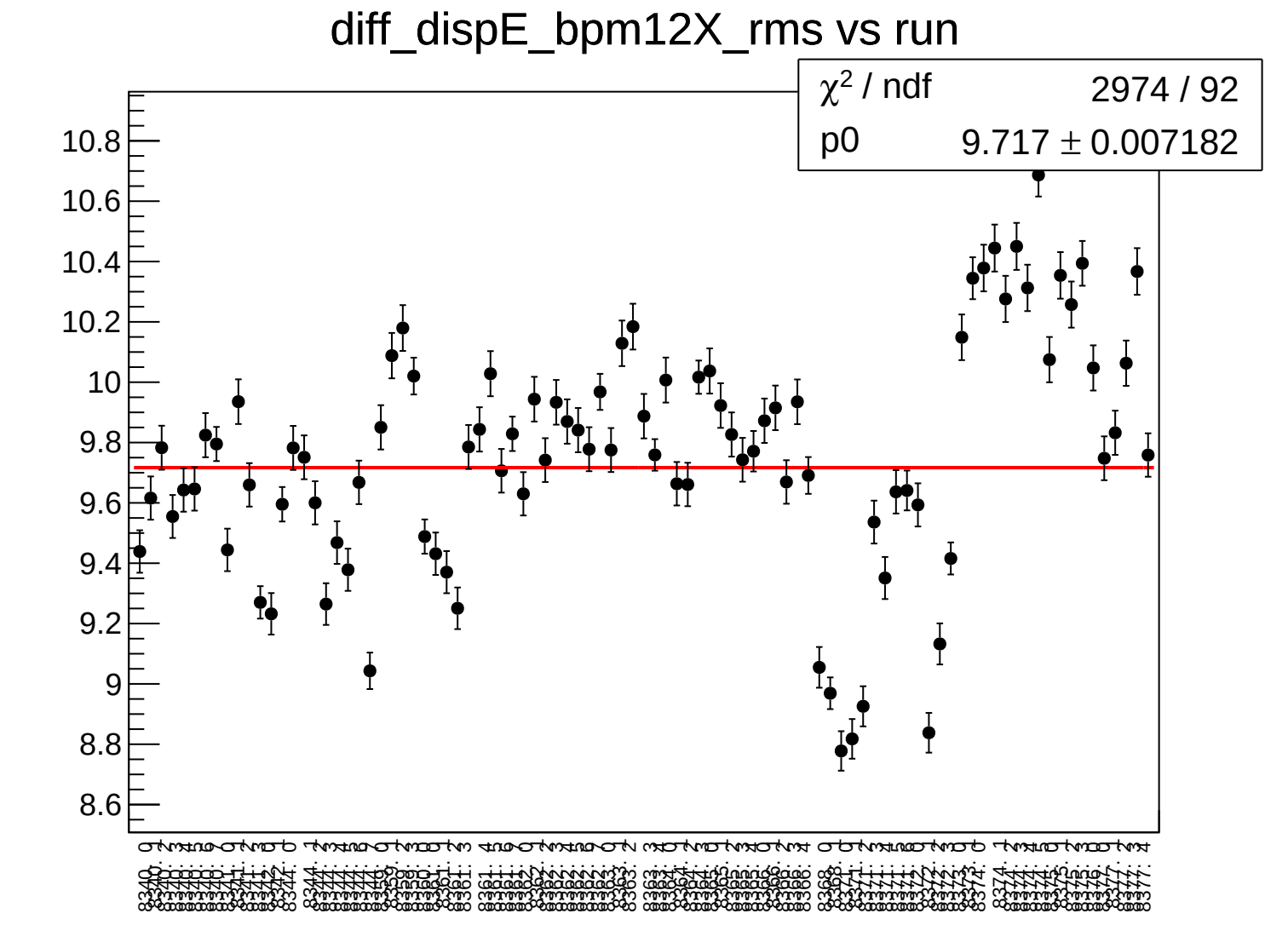

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4633 / 92
p0 6541 ± 4.836
7400
7200
7000
6800
6600
6400
6200
6000
5800

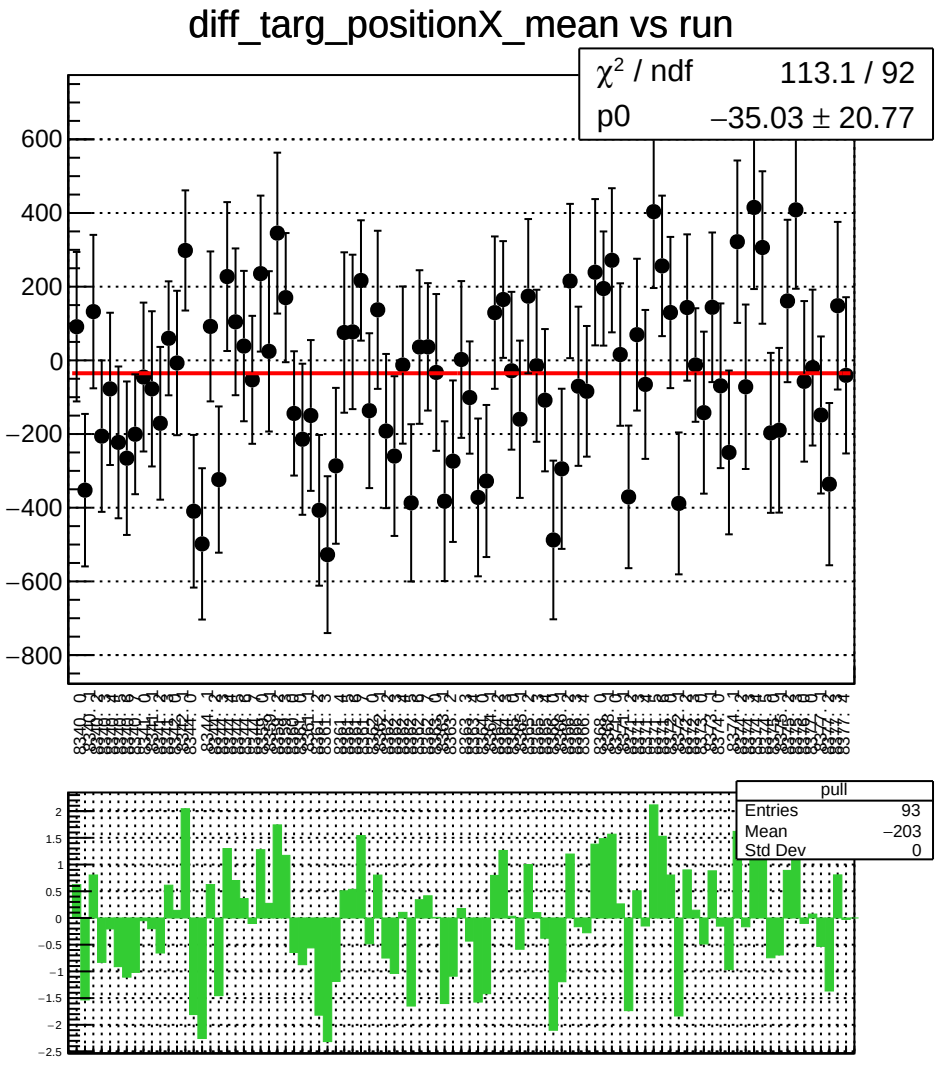

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 109.6 / 92
p0 0.4718 ± 0.7641
pull
Entries 93
Mean −2855
Std Dev 0

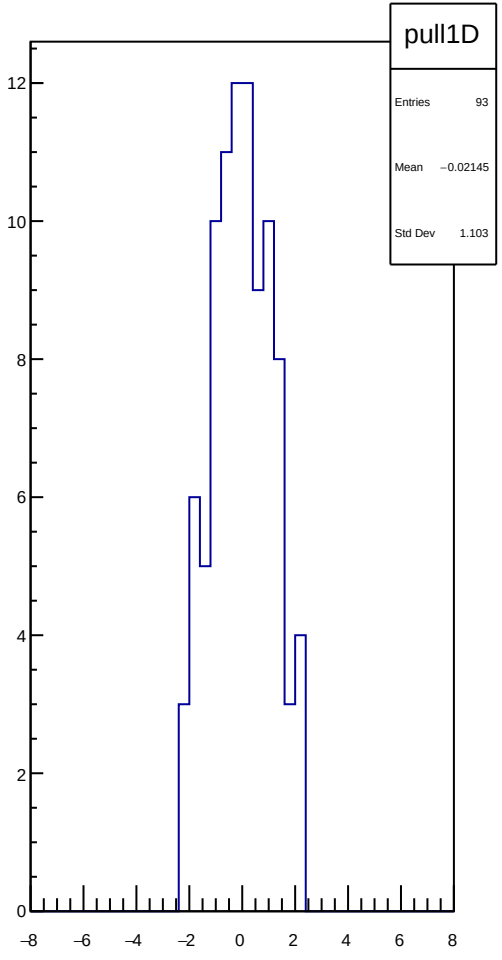

pull1D
Entries 93
Mean 0.0006735
Std Dev 1.085

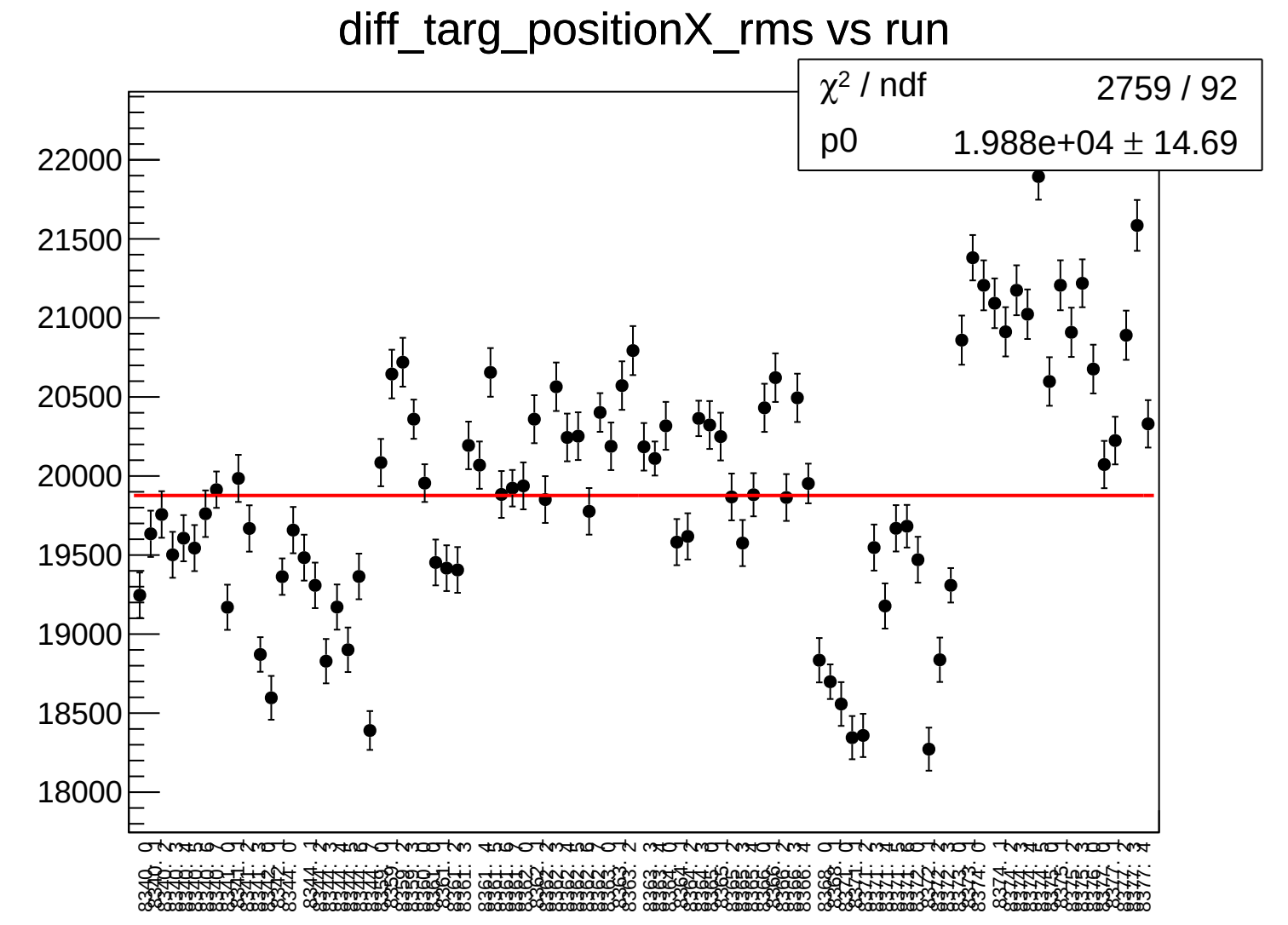

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 4124 / 92
p0 730.8 ± 0.5403
800
780
760
740
720
700
680
660
640

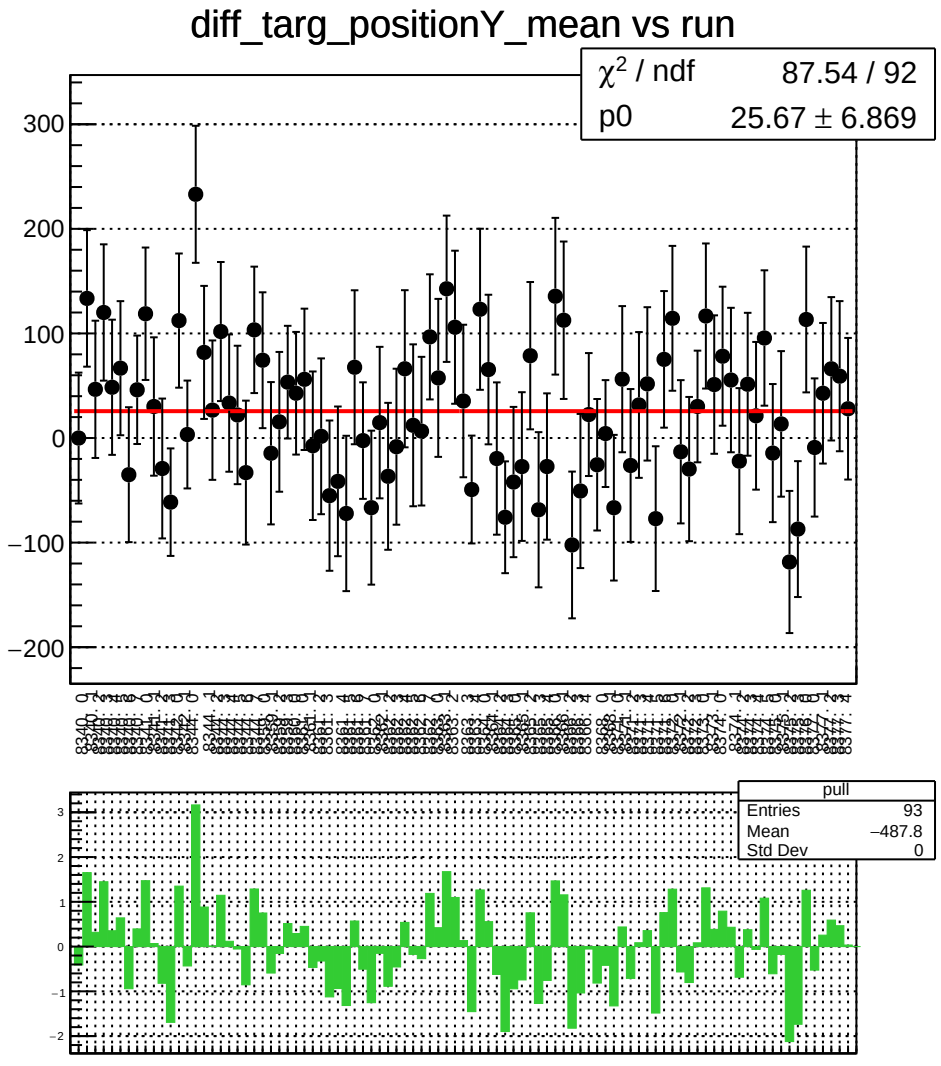

diff_dispE_bpm12X_mean vs run
χ² / ndf 103.4 / 92
p0 −0.008592 ± 0.01016
pull
Entries 93
Mean −217
Std Dev 0
pull1D
Entries 93
Mean 0.0145
Std Dev 1.054

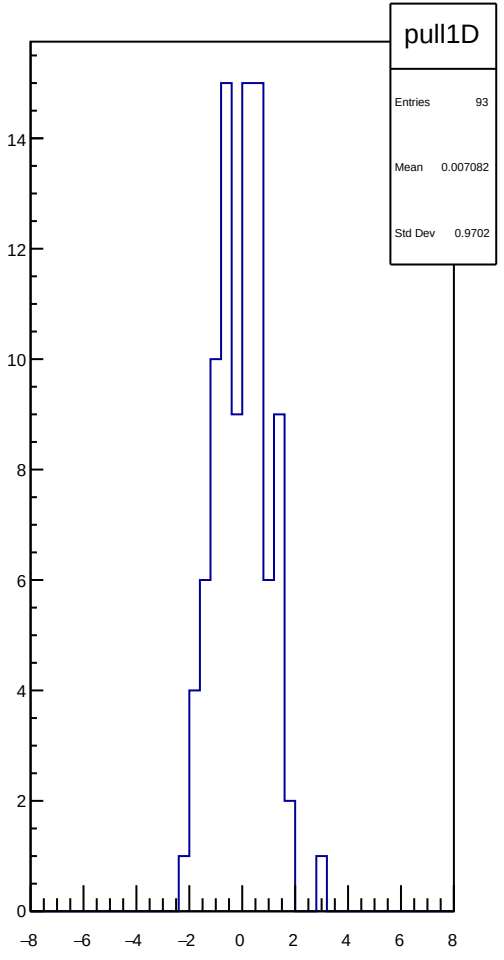

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2974 / 92
p0 9.717 ± 0.007182
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8
8.6

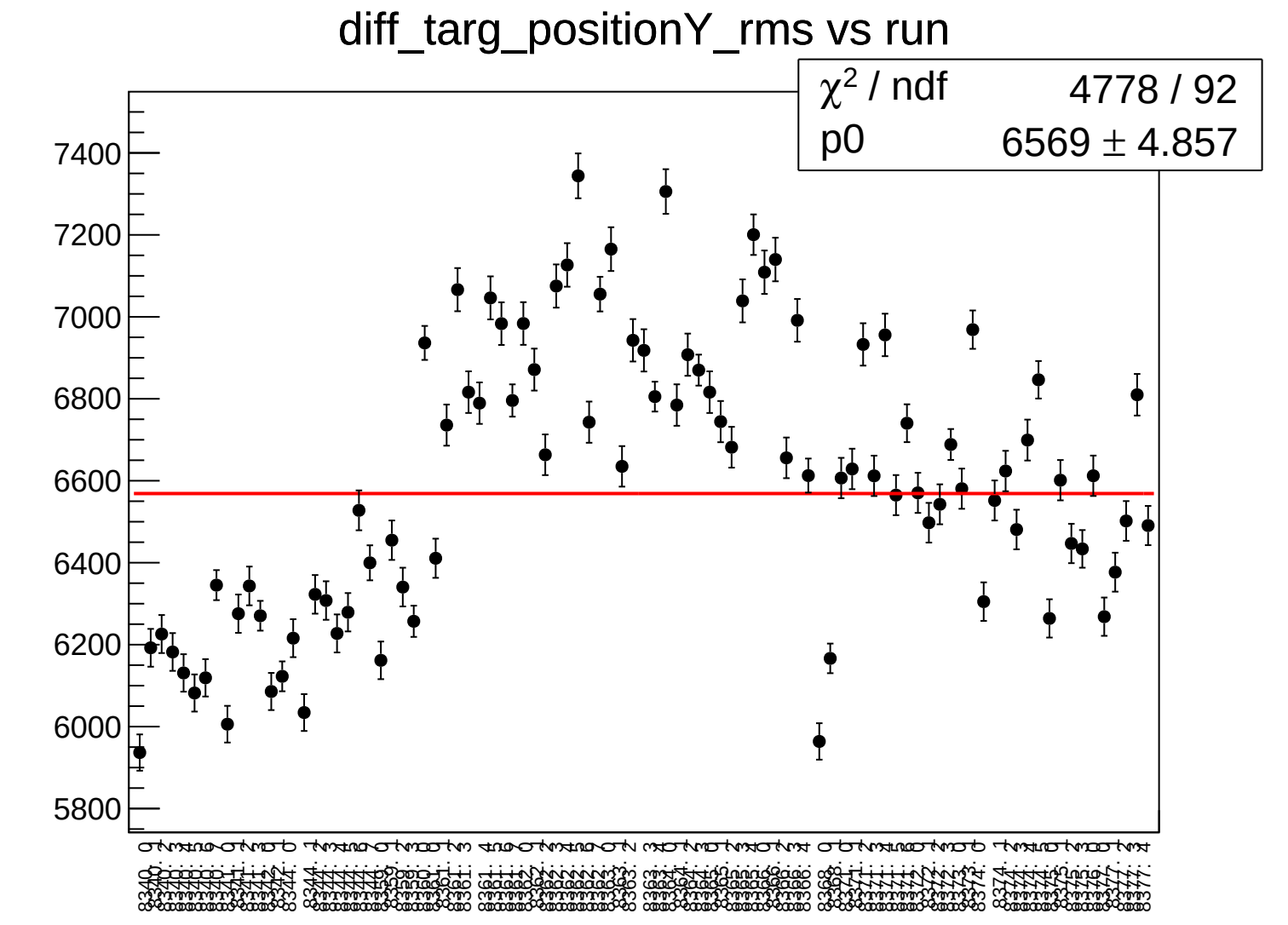

diff_targ_positionX_mean vs run
χ² / ndf 113.1 / 92
p0 −35.03 ± 20.77
pull
Entries 93
Mean −203
Std Dev 0

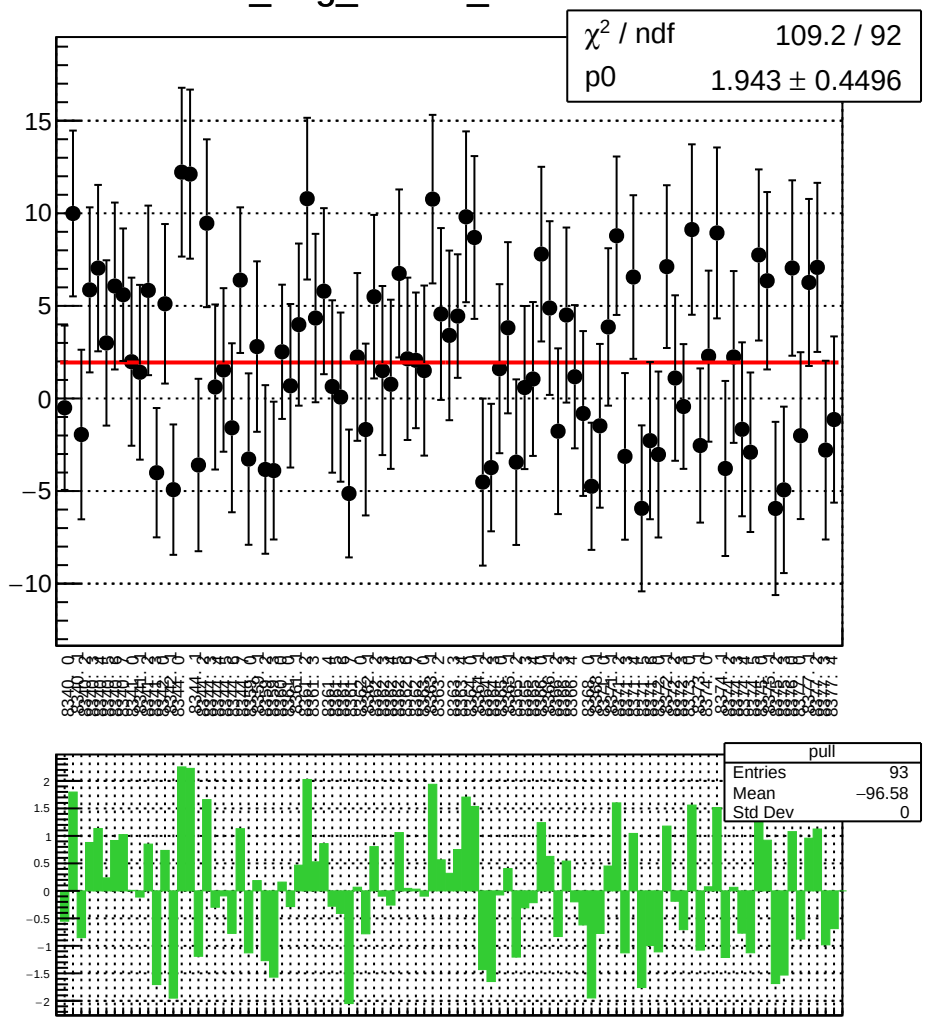

pull1D
Entries 93
Mean −0.02145
Std Dev 1.103

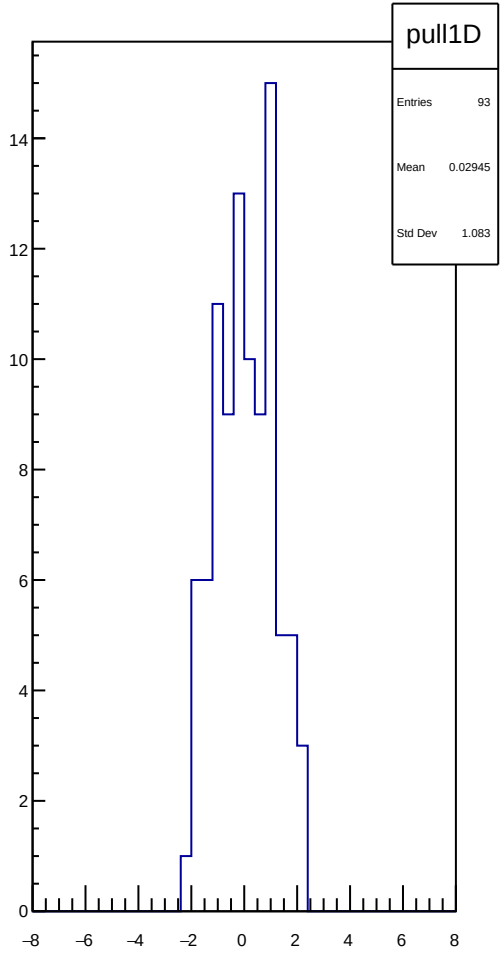

diff_targ_positionX_rms vs run
χ² / ndf 2759 / 92
p0 1.988e+04 ± 14.69
22000
21500
21000
20500
20000
19500
19000
18500
18000

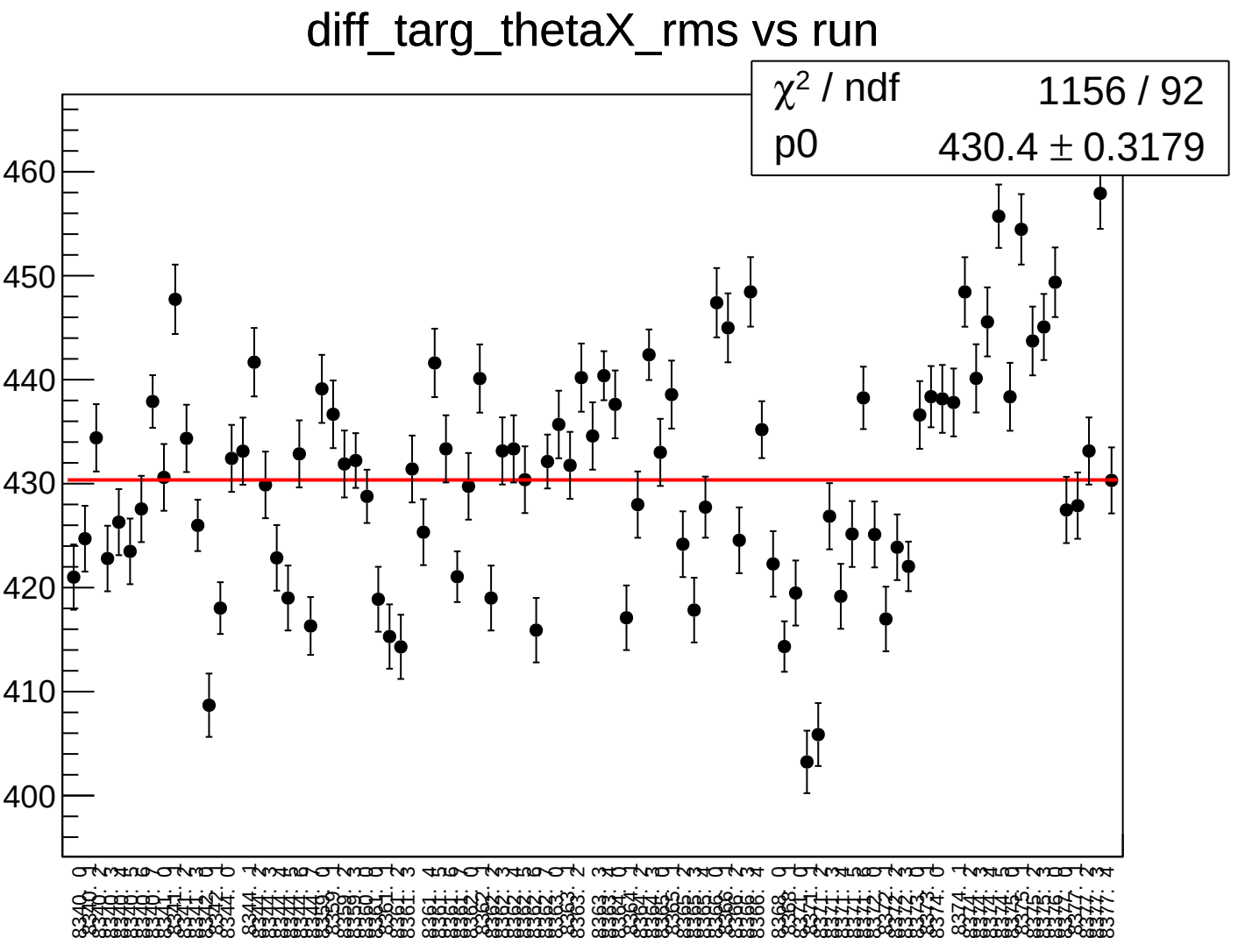

diff_targ_positionY_mean vs run
χ² / ndf 87.54 / 92
p0 25.67 ± 6.869
300
200
100
0
−100
−200
pull
Entries 93
Mean −487.8
Std Dev 0
3
2
1
0
−1
−2

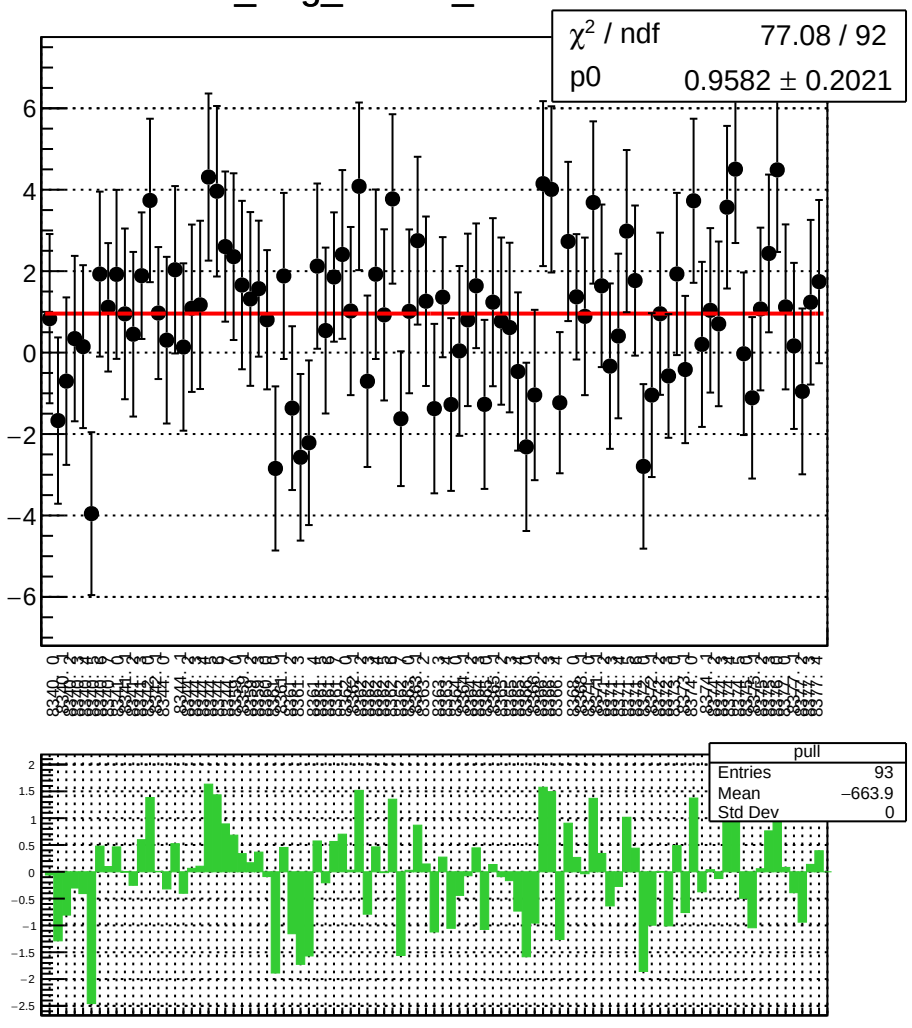

pull1D
Entries 93
Mean 0.007082
Std Dev 0.9702
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

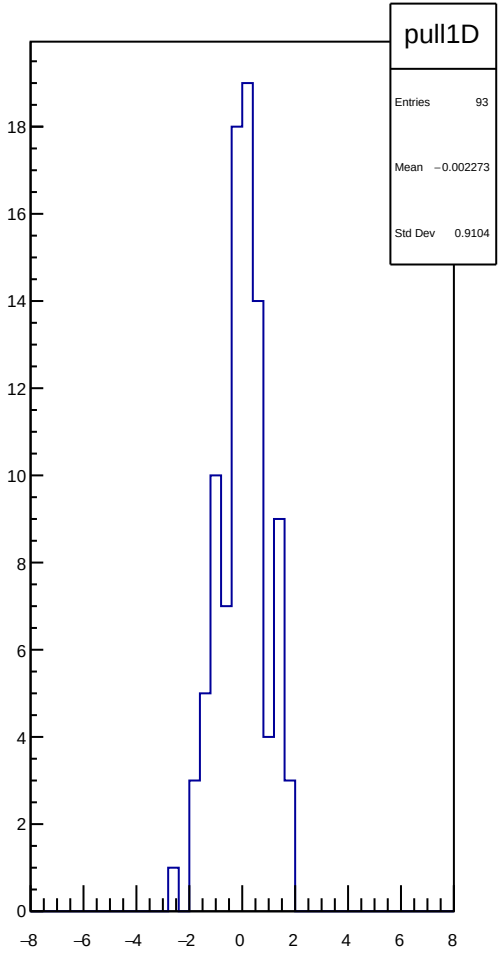

diff_targ_positionY_rms vs run
χ² / ndf 4778 / 92
p0 6569 ± 4.857
7400
7200
7000
6800
6600
6400
6200
6000
5800

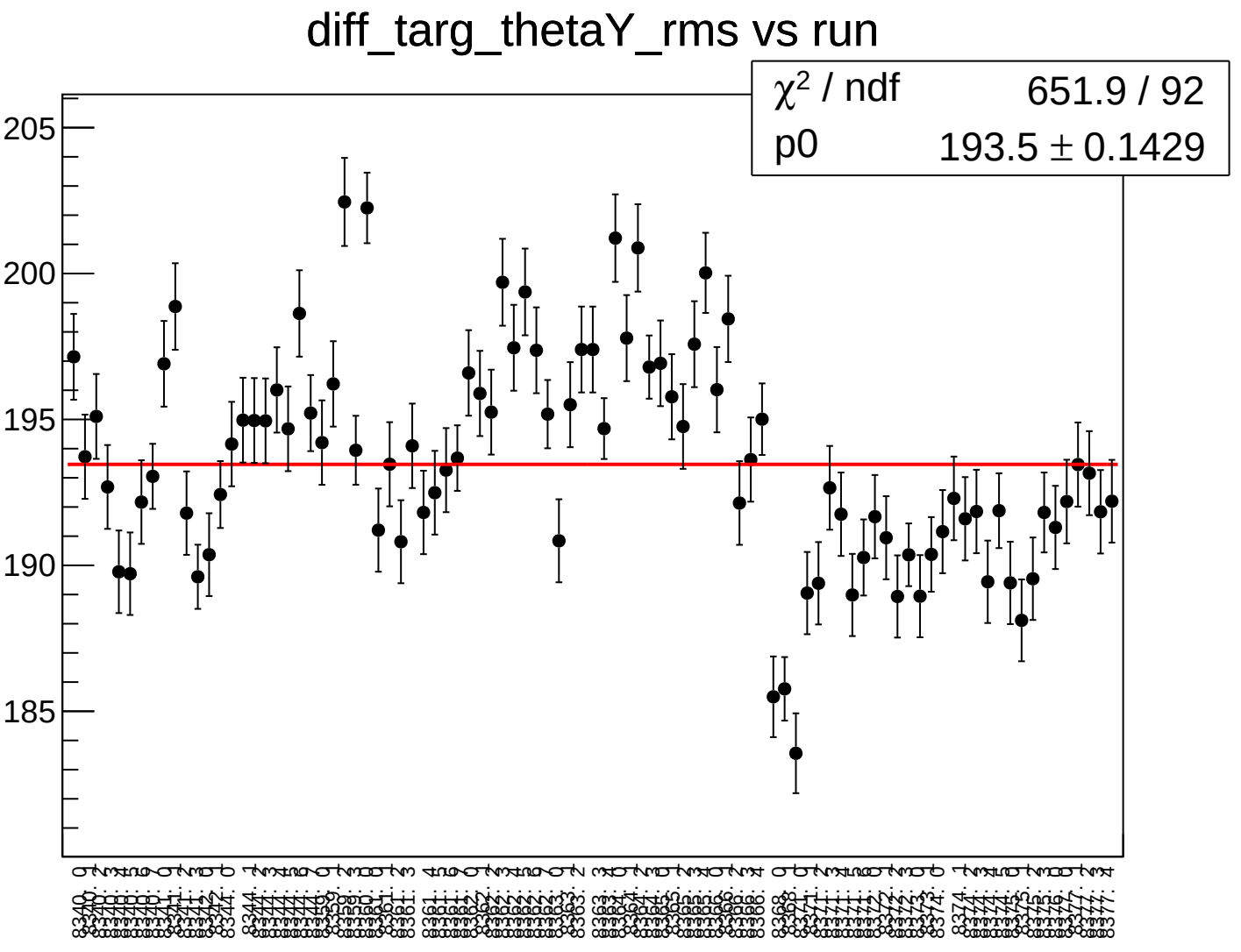

diff_targ_thetaX_mean vs run
χ² / ndf 109.2 / 92
p0 1.943 ± 0.4496
pull
Entries 93
Mean −96.58
Std Dev 0

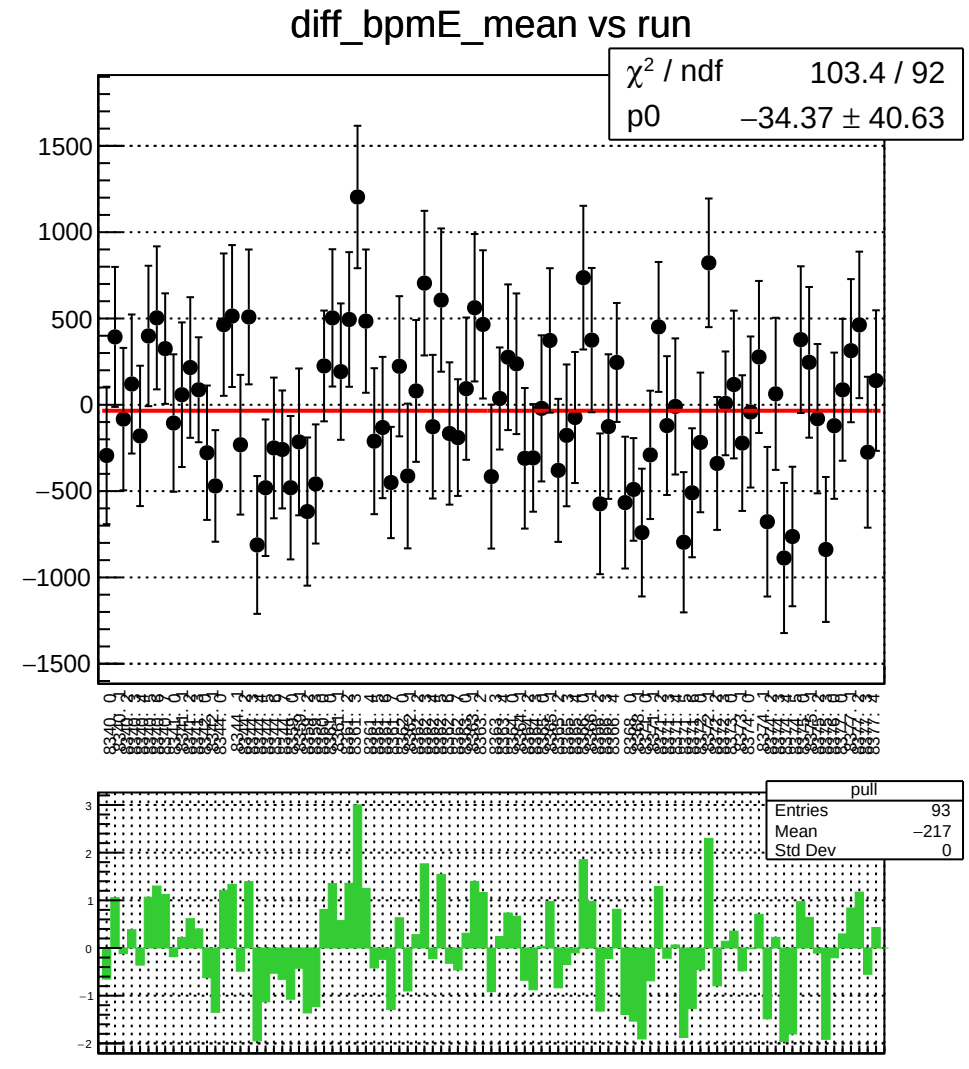

pull1D
Entries 93
Mean 0.02945
Std Dev 1.083

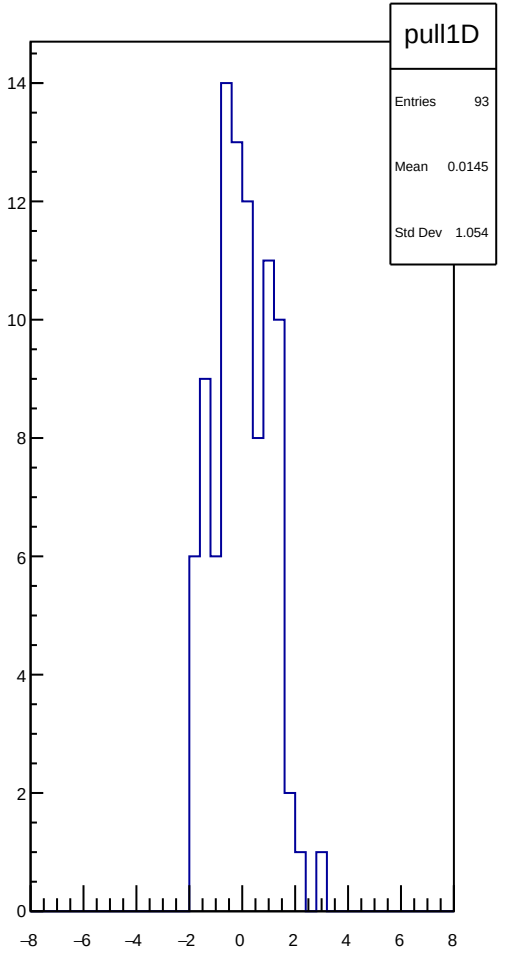

diff_targ_thetaX_rms vs run
χ² / ndf 1156 / 92
p0 430.4 ± 0.3179
460
450
440
430
420
410
400

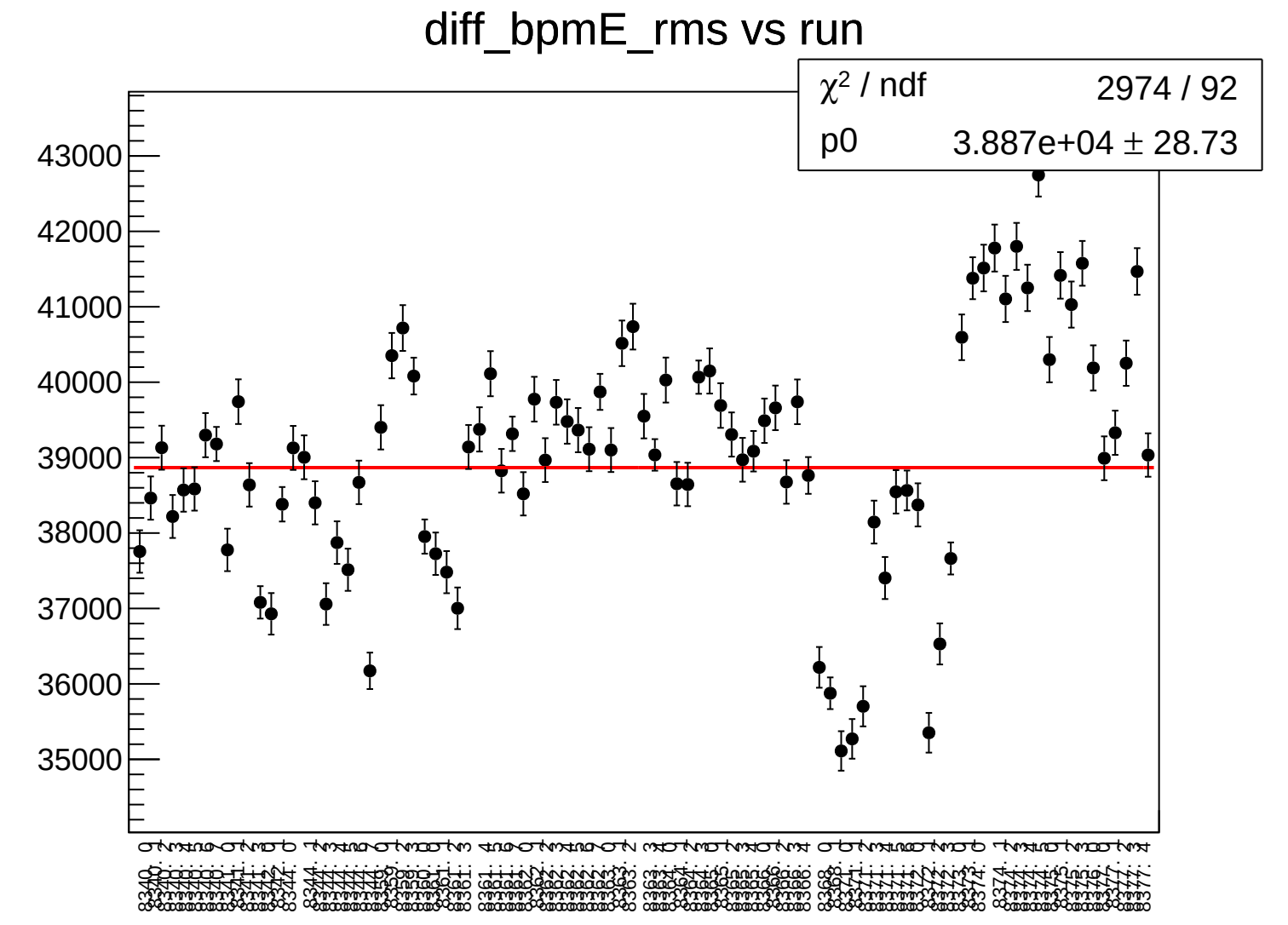

diff_targ_thetaY_mean vs run
χ² / ndf 77.08 / 92
p0 0.9582 ± 0.2021
pull
Entries 93
Mean −663.9
Std Dev 0

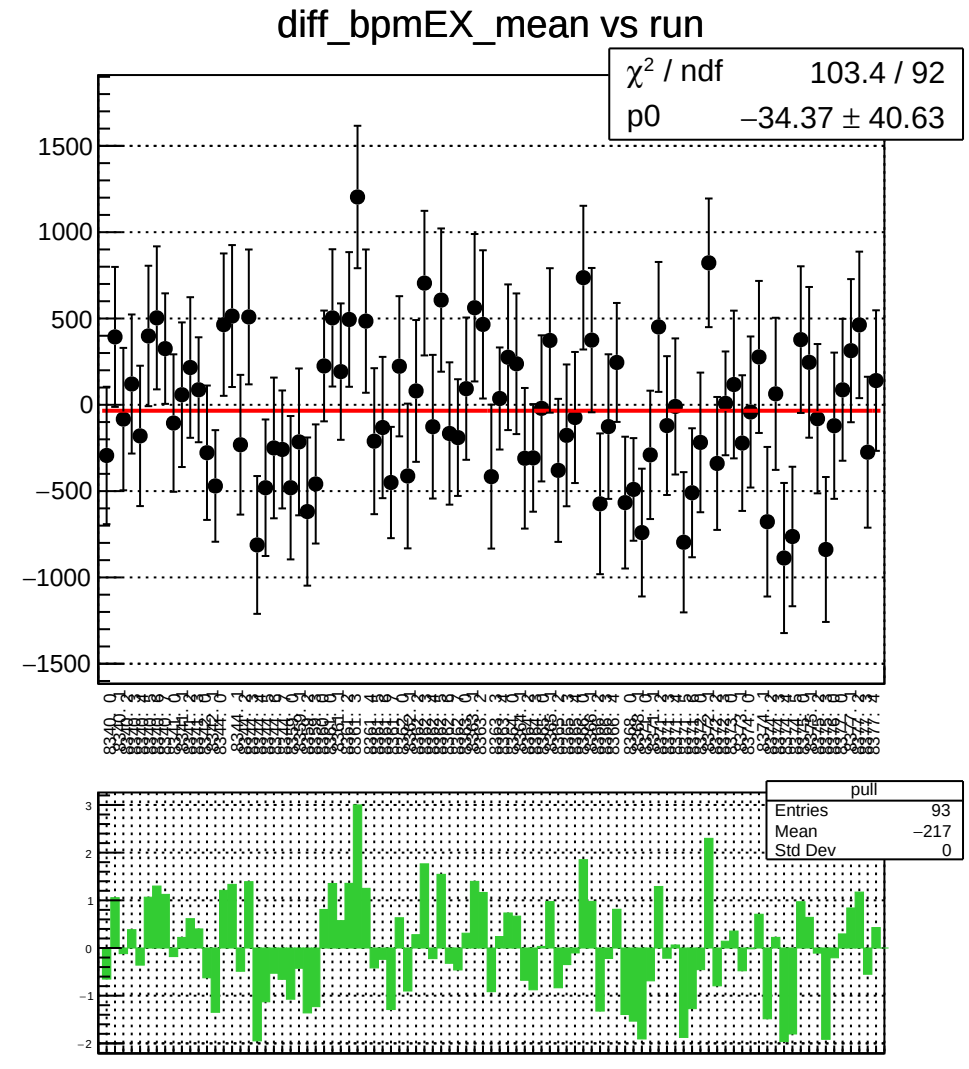

pull1D
Entries 93
Mean −0.002273
Std Dev 0.9104

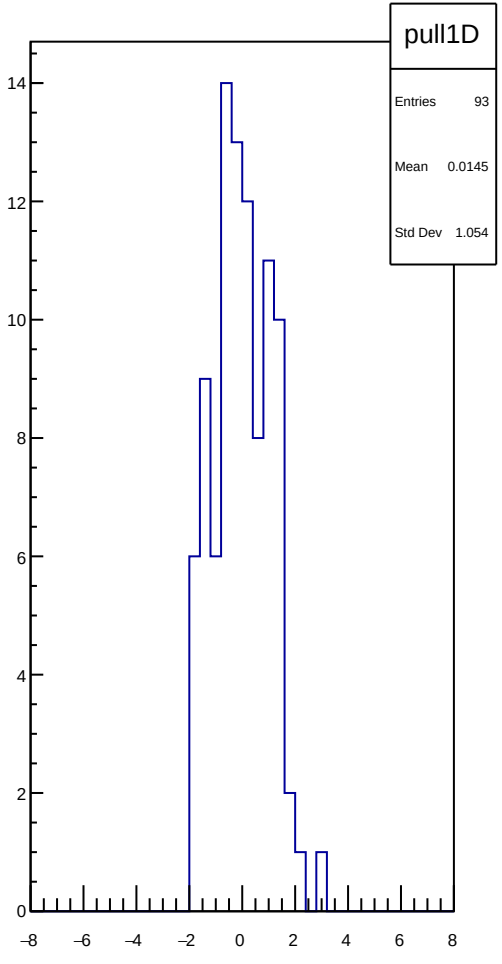

diff_targ_thetaY_rms vs run
χ² / ndf 651.9 / 92
p0 193.5 ± 0.1429
205
200
195
190
185

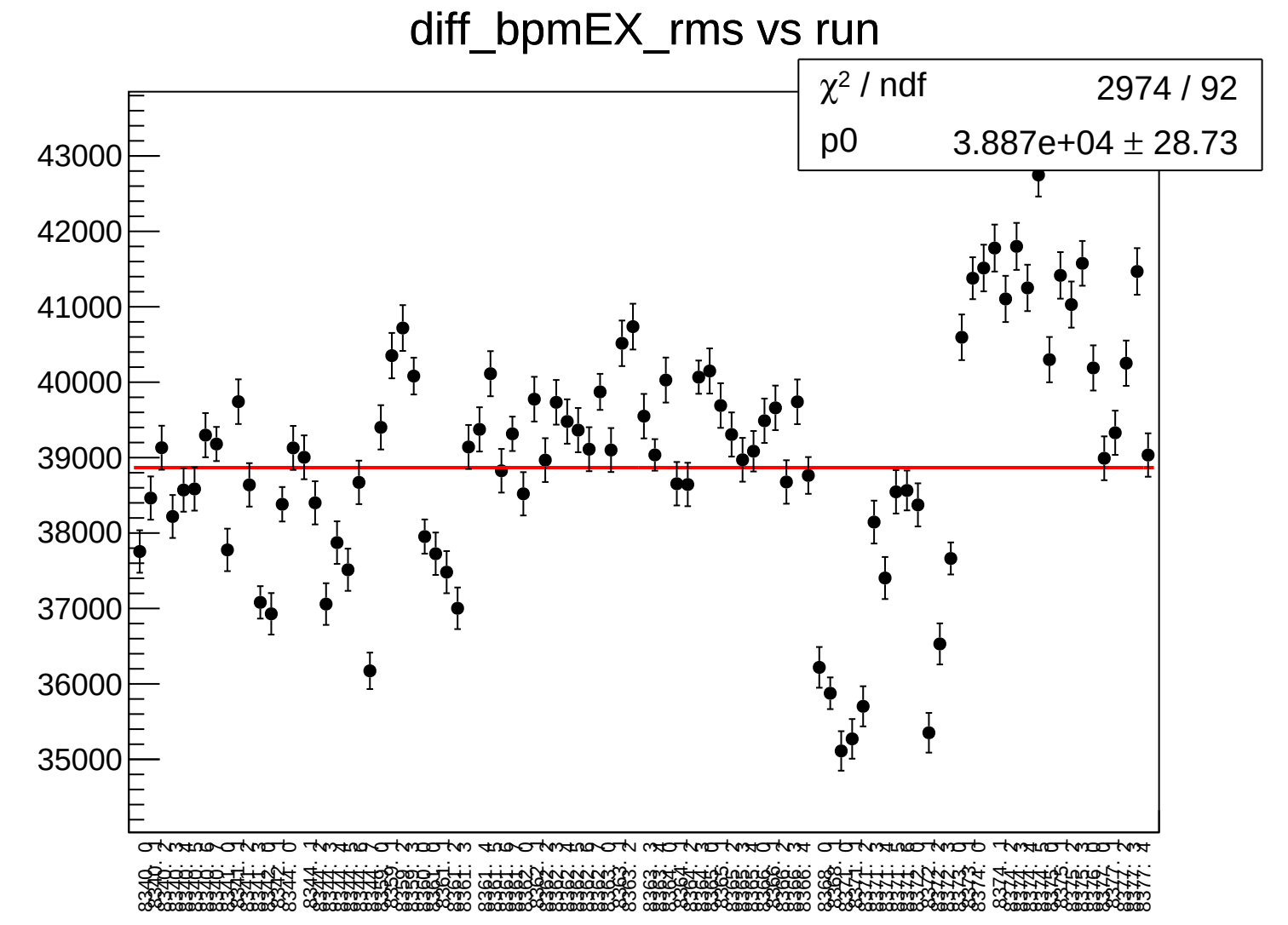

diff_bpmE_mean vs run
χ² / ndf 103.4 / 92
p0 −34.37 ± 40.63
pull
Entries 93
Mean −217
Std Dev 0

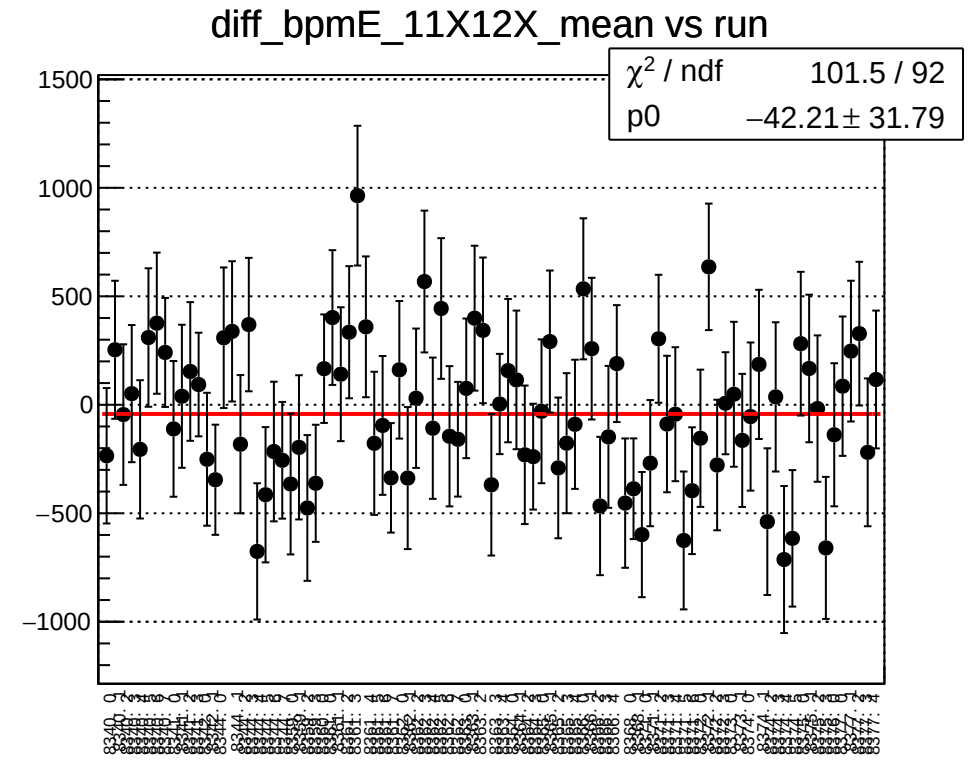

pull1D
Entries 93
Mean 0.0145
Std Dev 1.054

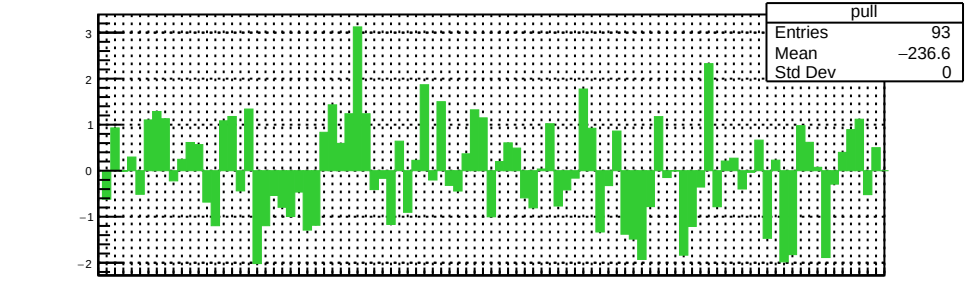

diff_bpmE_rms vs run
χ² / ndf 2974 / 92
p0 3.887e+04 ± 28.73
43000
42000
41000
40000
39000
38000
37000
36000
35000

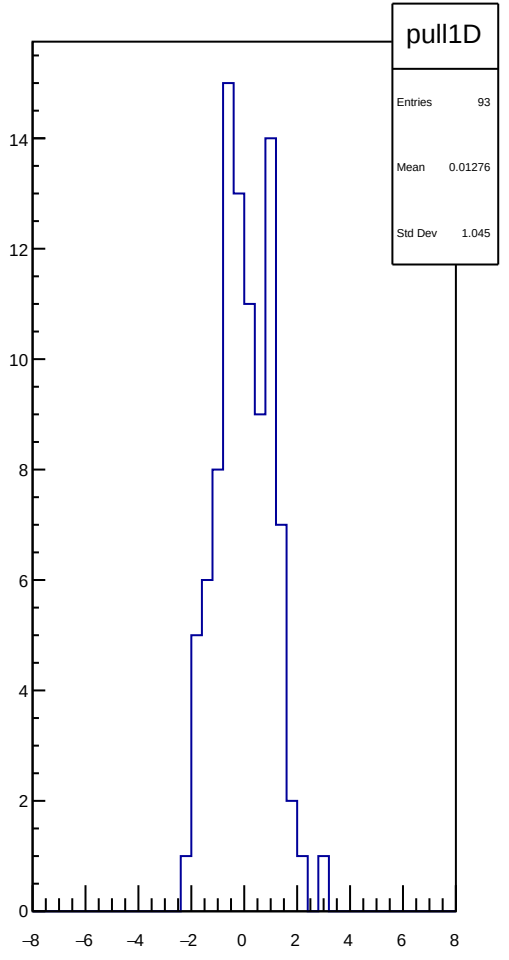

diff_bpmEX_mean vs run
χ² / ndf 103.4 / 92
p0 −34.37 ± 40.63
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −217
Std Dev 0
3
2
1
0
−1
−2

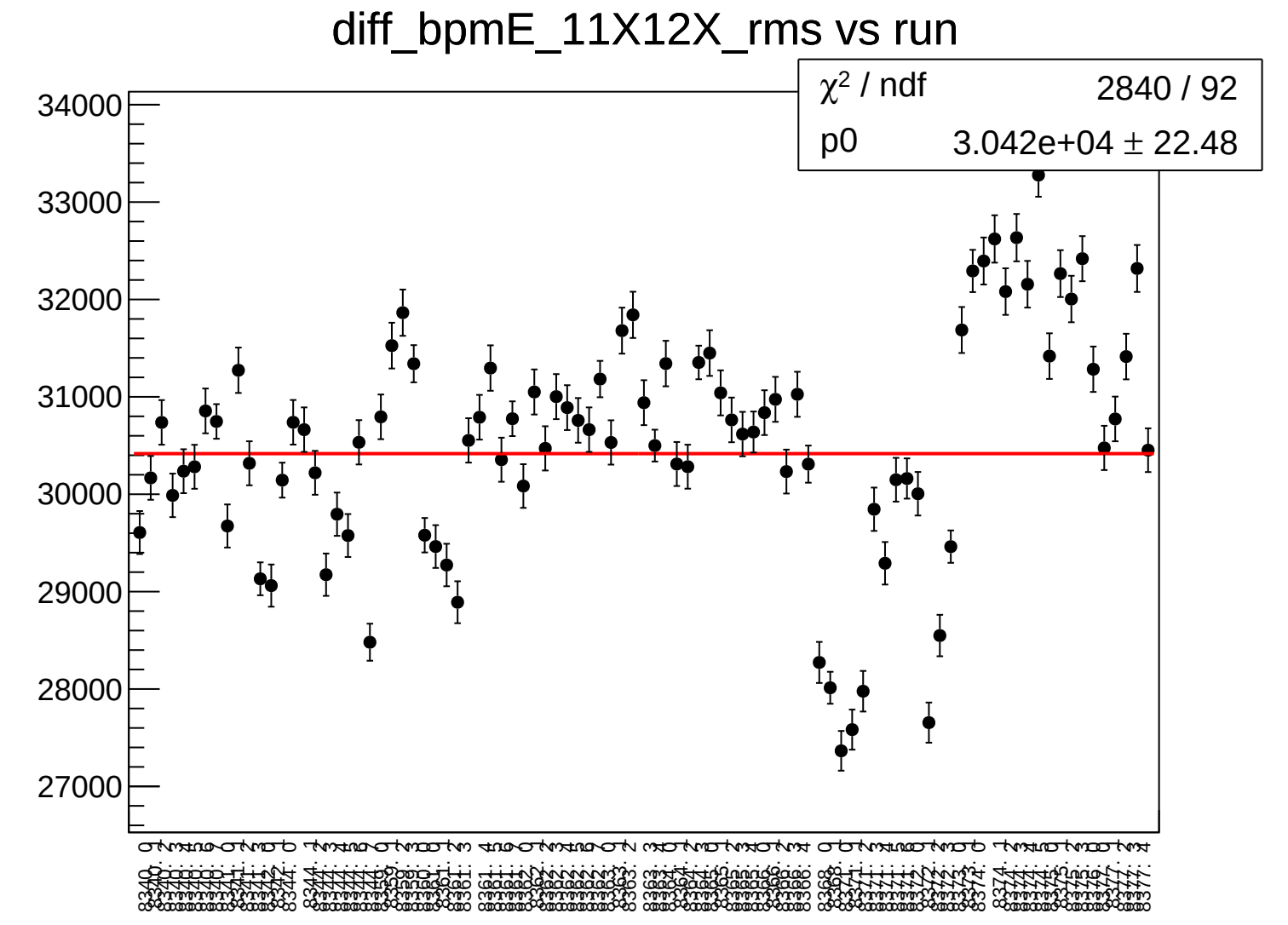

pull1D
Entries 93
Mean 0.0145
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

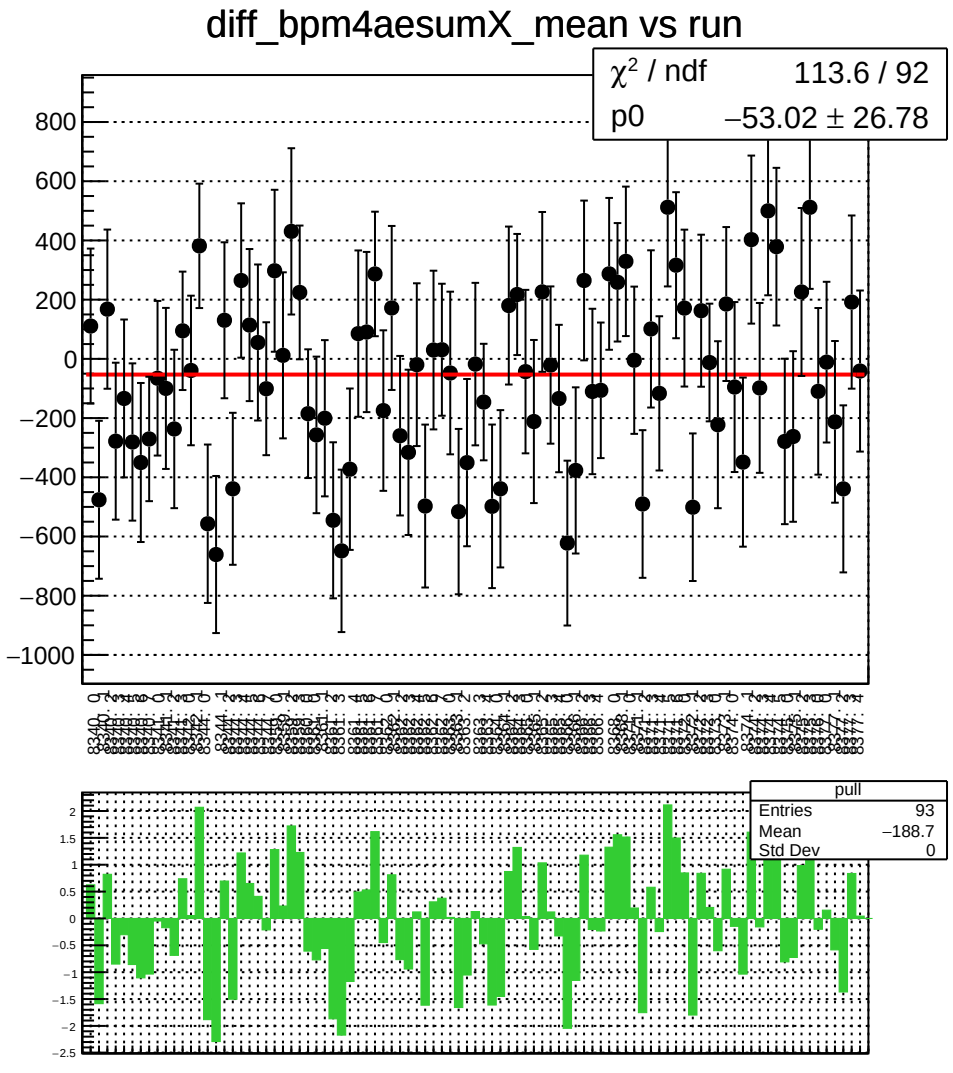

diff_bpmEX_rms vs run
χ² / ndf 2974 / 92
p0 3.887e+04 ± 28.73
43000
42000
41000
40000
39000
38000
37000
36000
35000

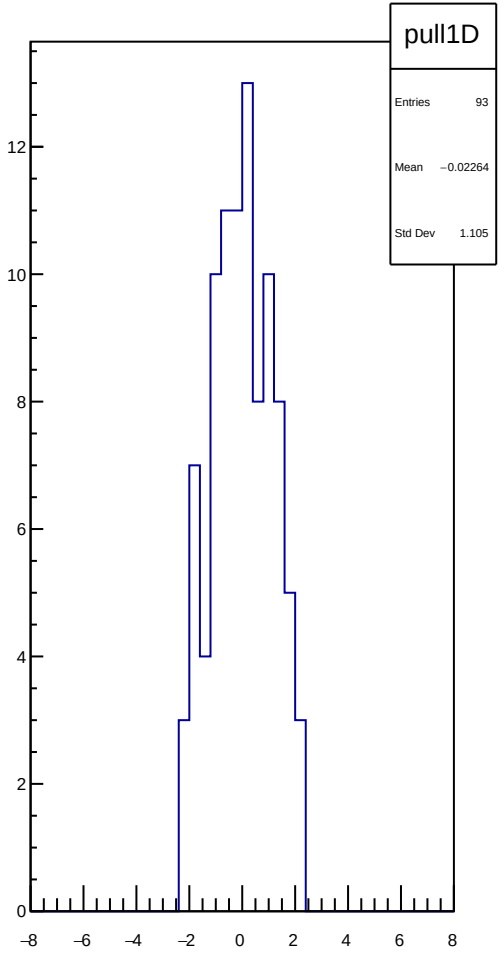

diff_bpmE_11X12X_mean vs run
χ^2 / ndf 101.5 / 92
p0 −42.21 ± 31.79
1500
1000
500
0
−500
−1000


pull
Entries 93
Mean −236.6
Std Dev 0
3
2
1
0
−1
−2

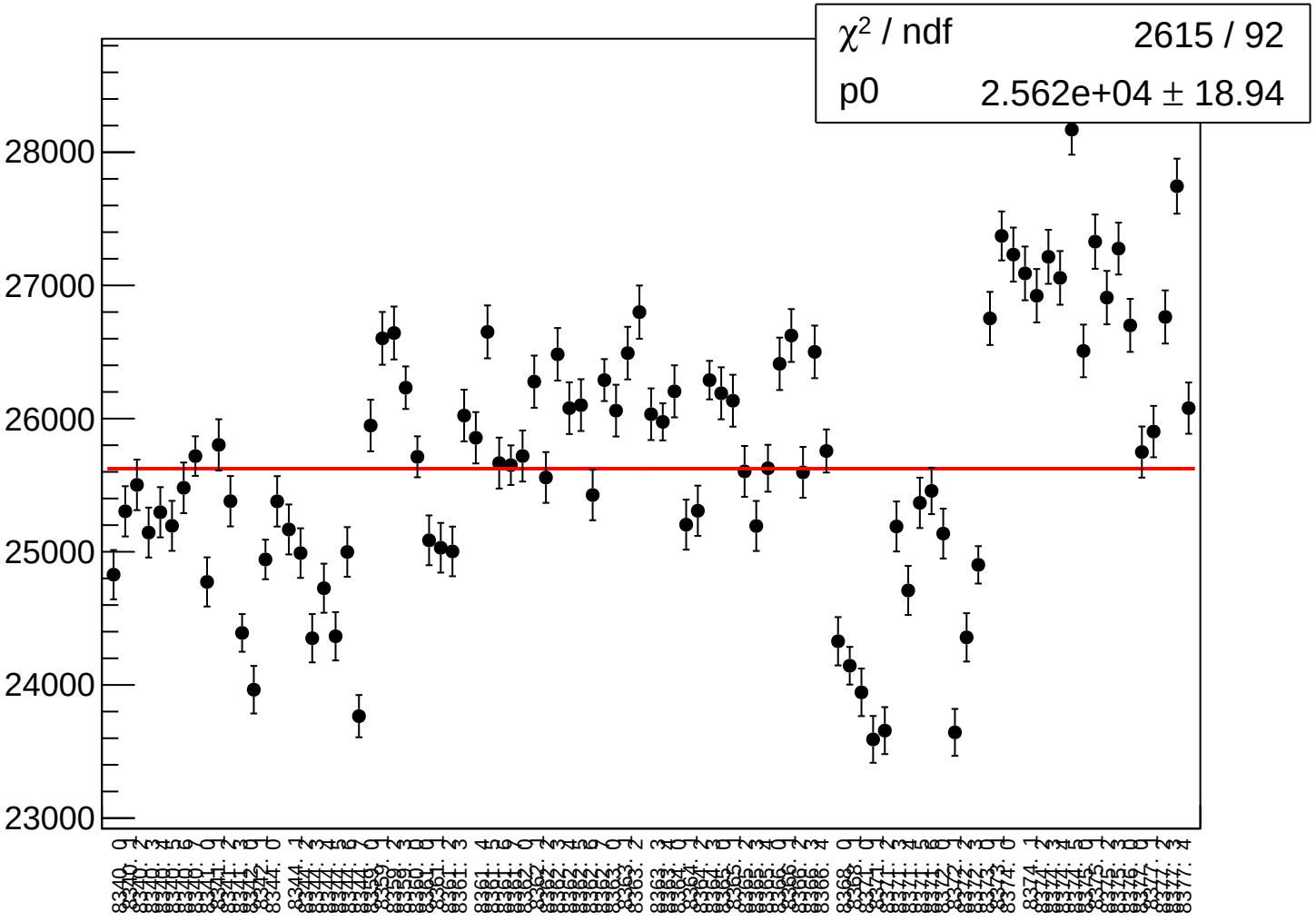

pull1D
Entries 93
Mean 0.01276
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

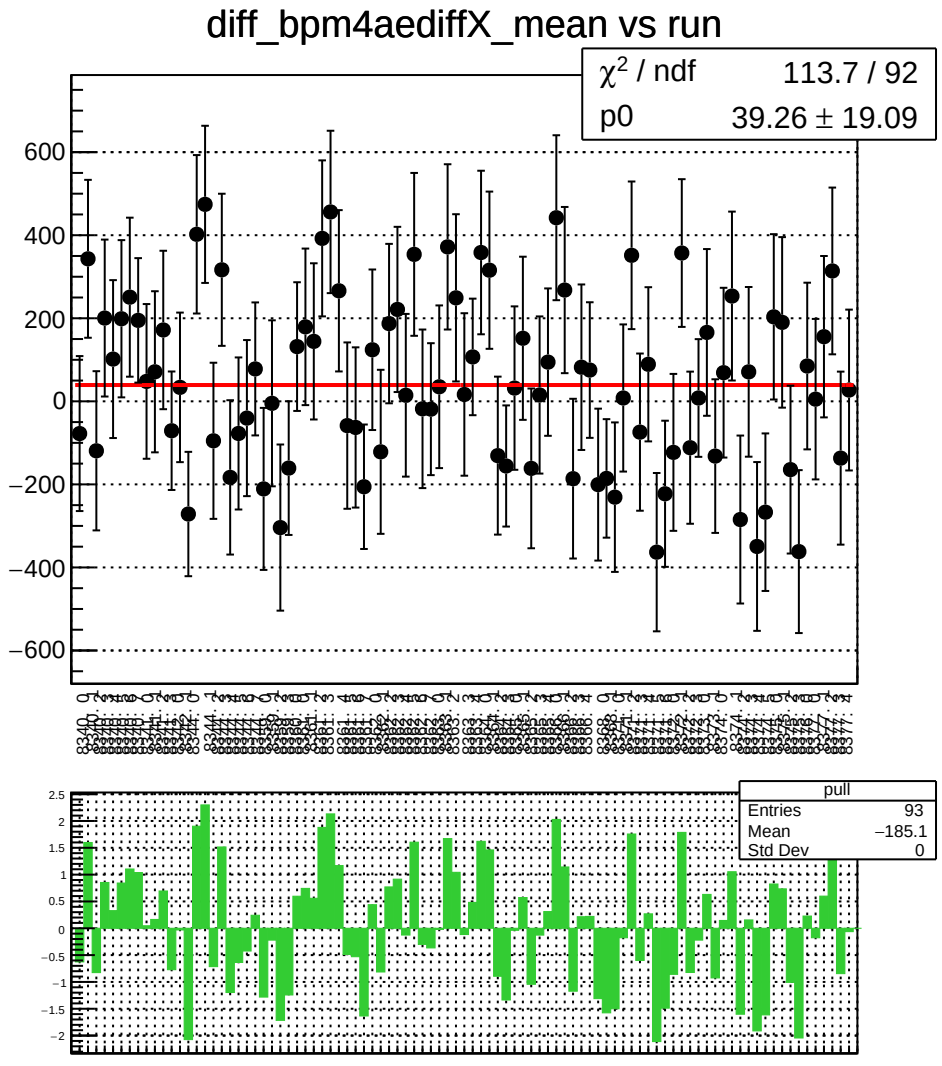

diff_bpmE_11X12X_rms vs run
χ² / ndf 2840 / 92
p0 3.042e+04 ± 22.48
34000
33000
32000
31000
30000
29000
28000
27000

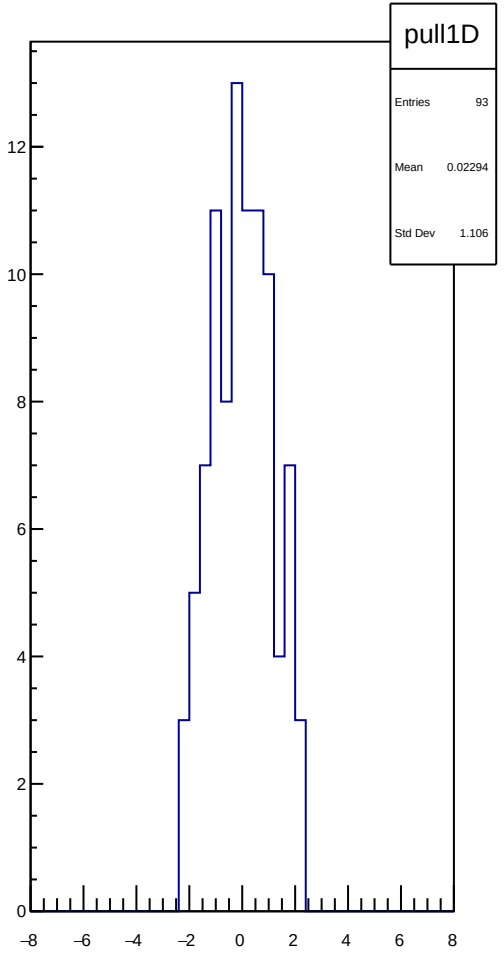

diff_bpm4aesumX_mean vs run
χ² / ndf 113.6 / 92
p0 −53.02 ± 26.78
pull
Entries 93
Mean −188.7
Std Dev 0

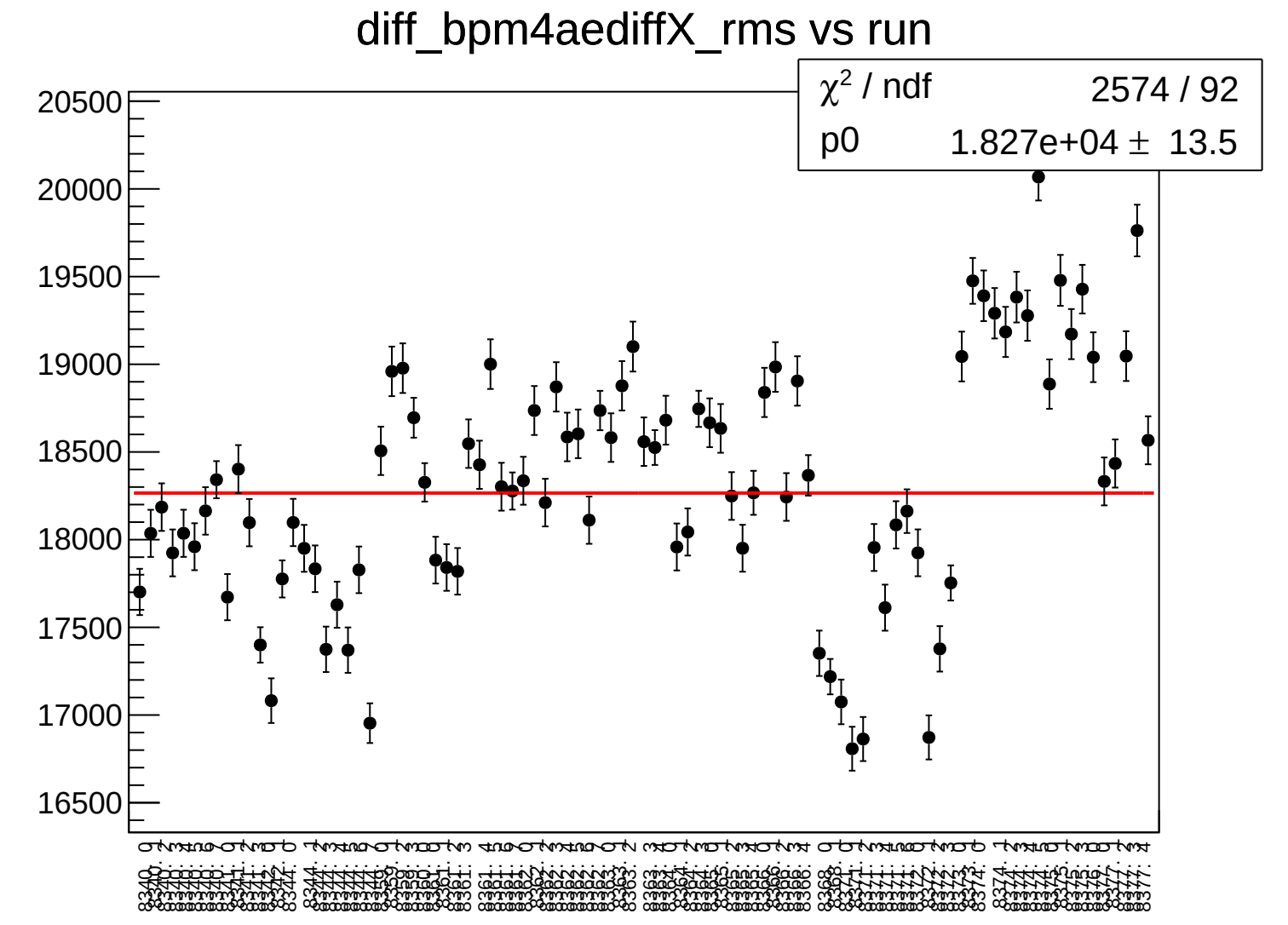

pull1D
Entries 93
Mean −0.02264
Std Dev 1.105

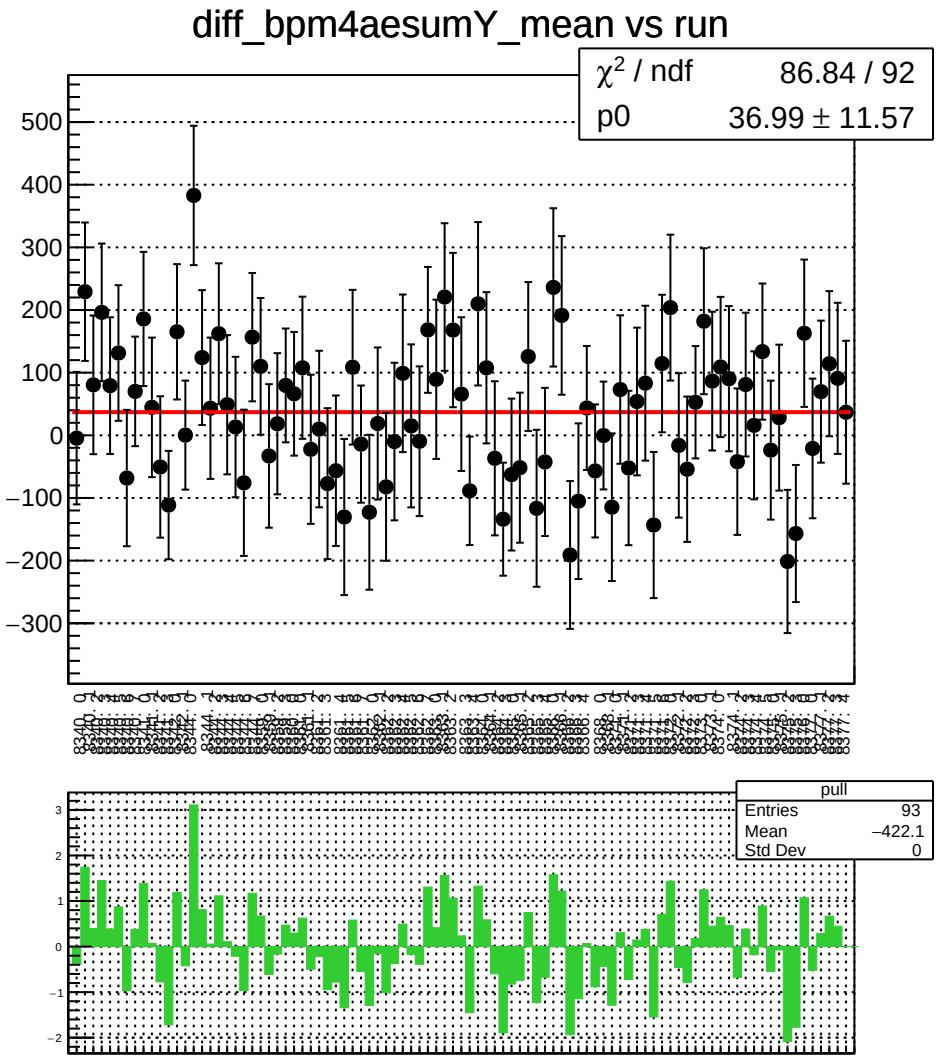
diff_bpm4aesumX_rms vs run

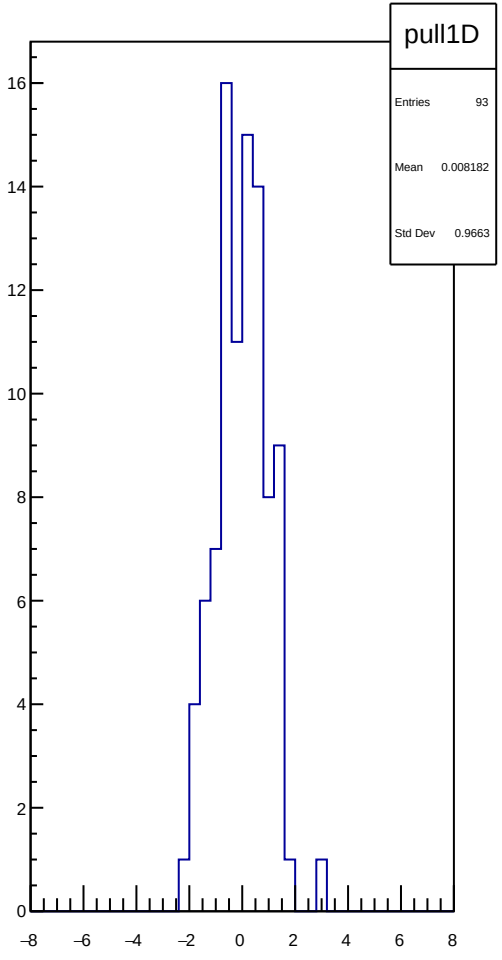


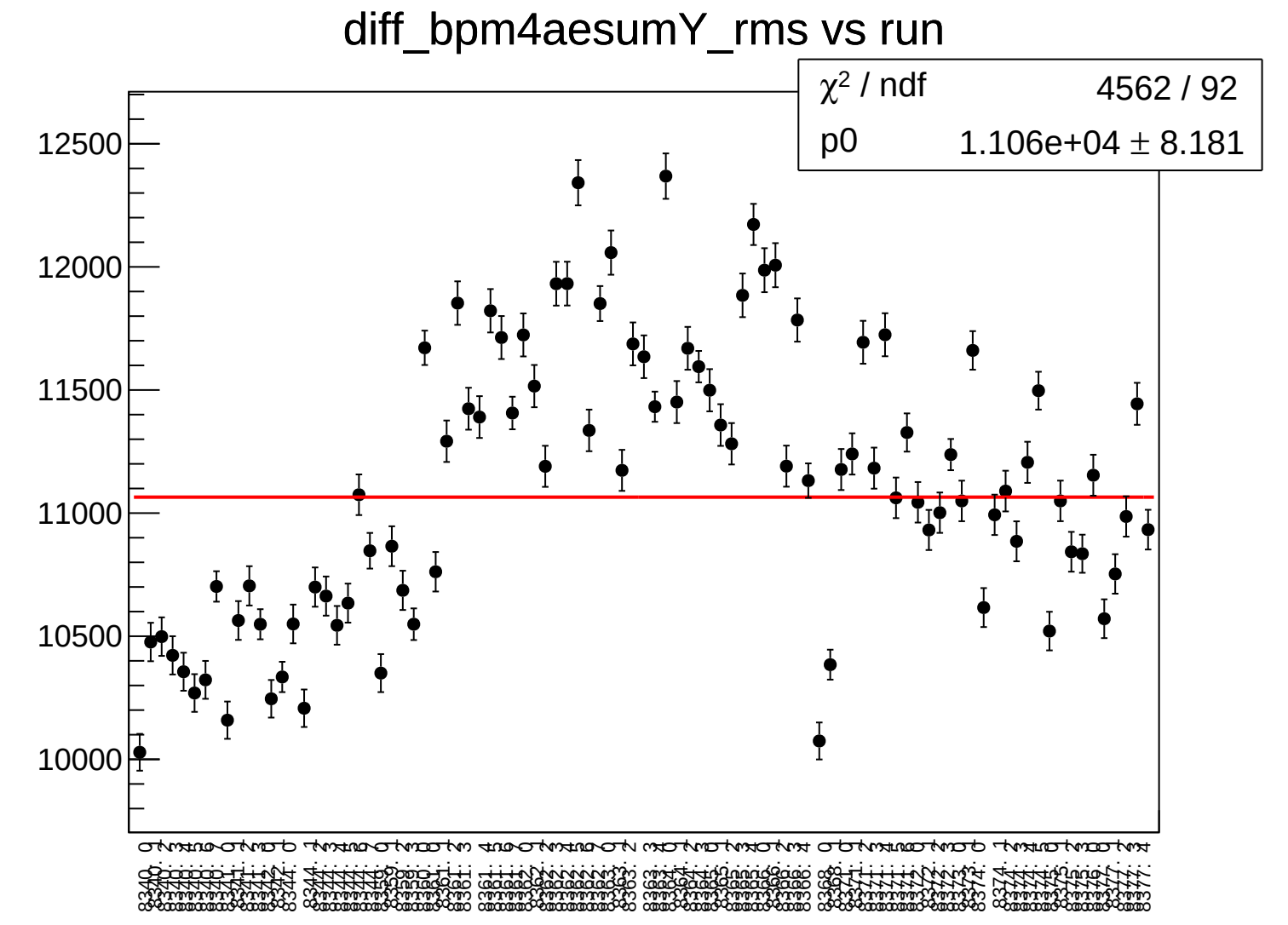

diff_bpm4aediffX_mean vs run
χ² / ndf 113.7 / 92
p0 39.26 ± 19.09
600
400
200
0
−200
−400
−600
pull
Entries 93
Mean −185.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

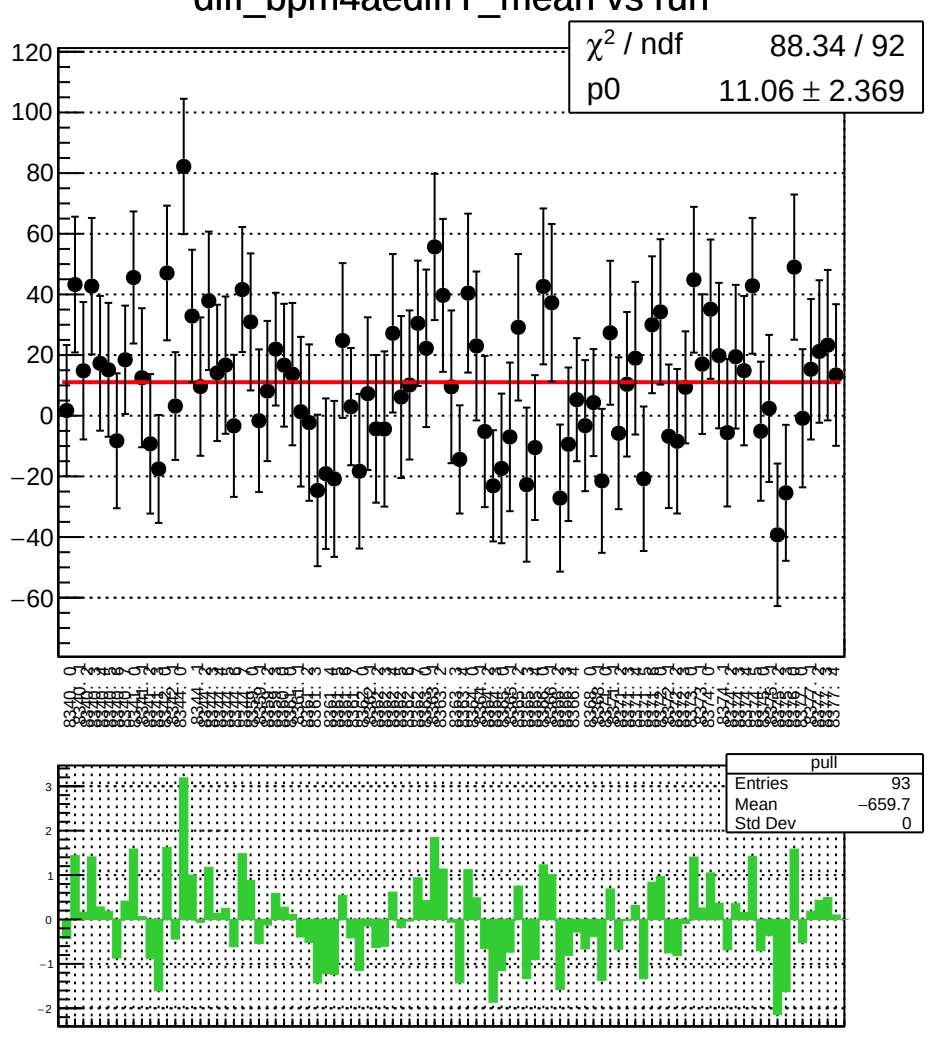

pull1D
Entries 93
Mean 0.02294
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

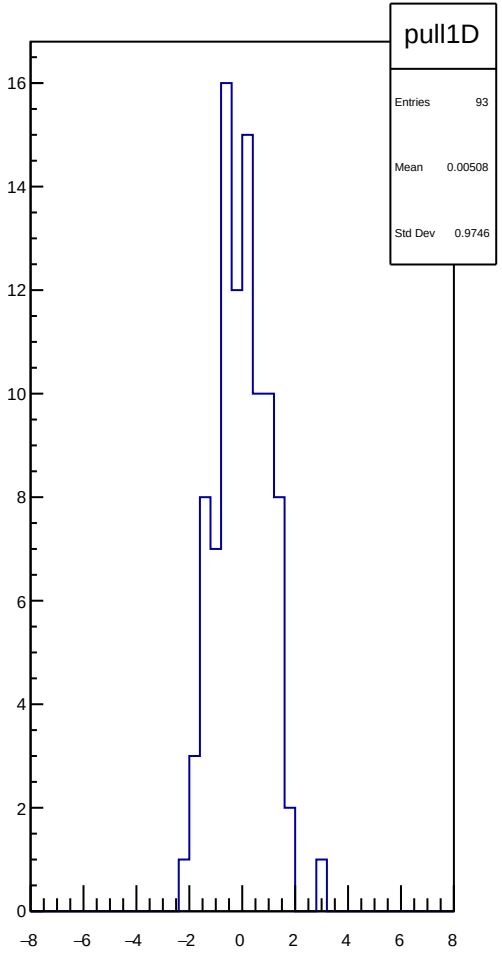

diff_bpm4aediffX_rms vs run
χ² / ndf 2574 / 92
p0 1.827e+04 ± 13.5
20500
20000
19500
19000
18500
18000
17500
17000
16500

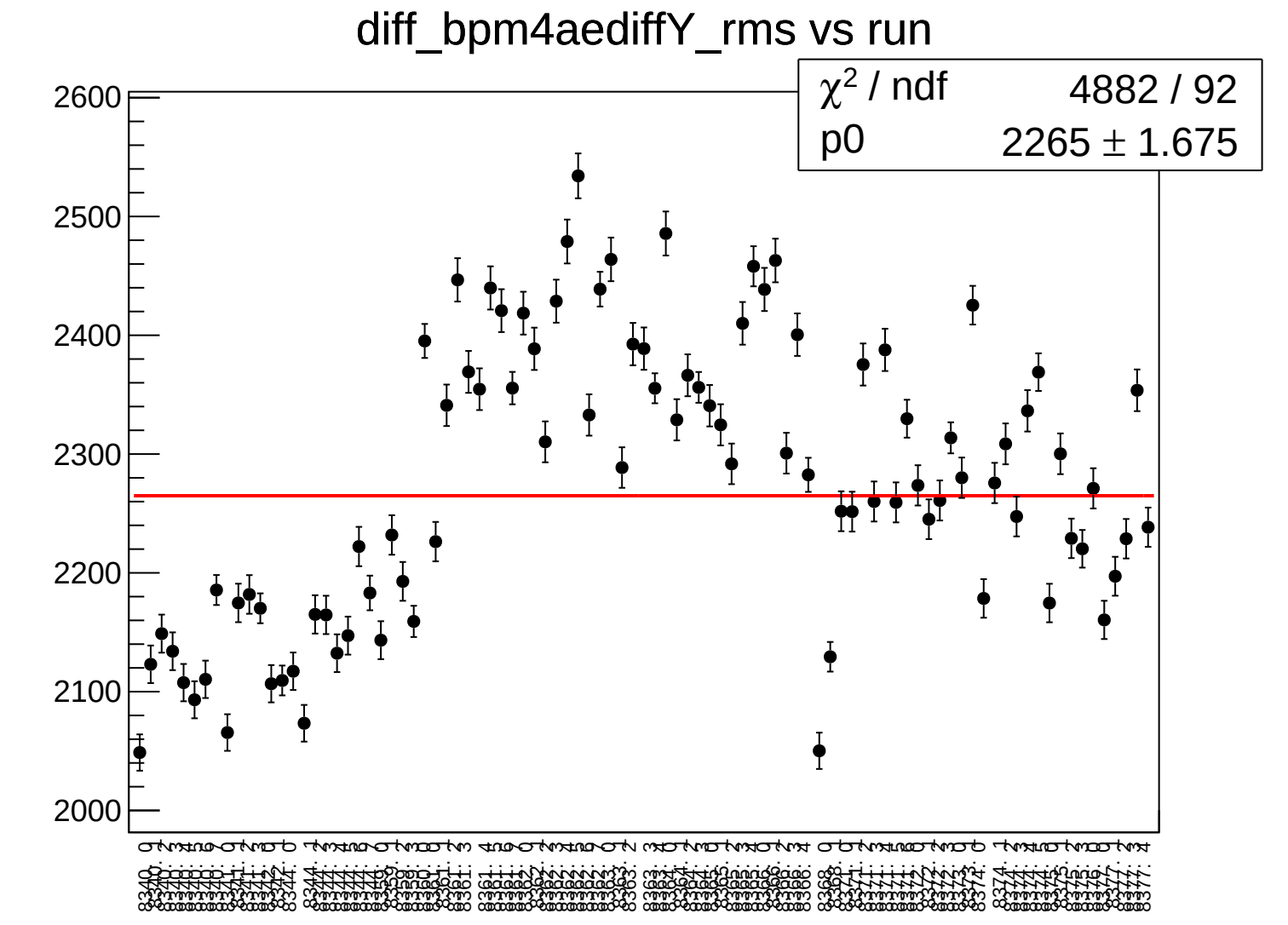

diff_bpm4aesumY_mean vs run
χ² / ndf 86.84 / 92
p0 36.99 ± 11.57
pull
Entries 93
Mean −422.1
Std Dev 0

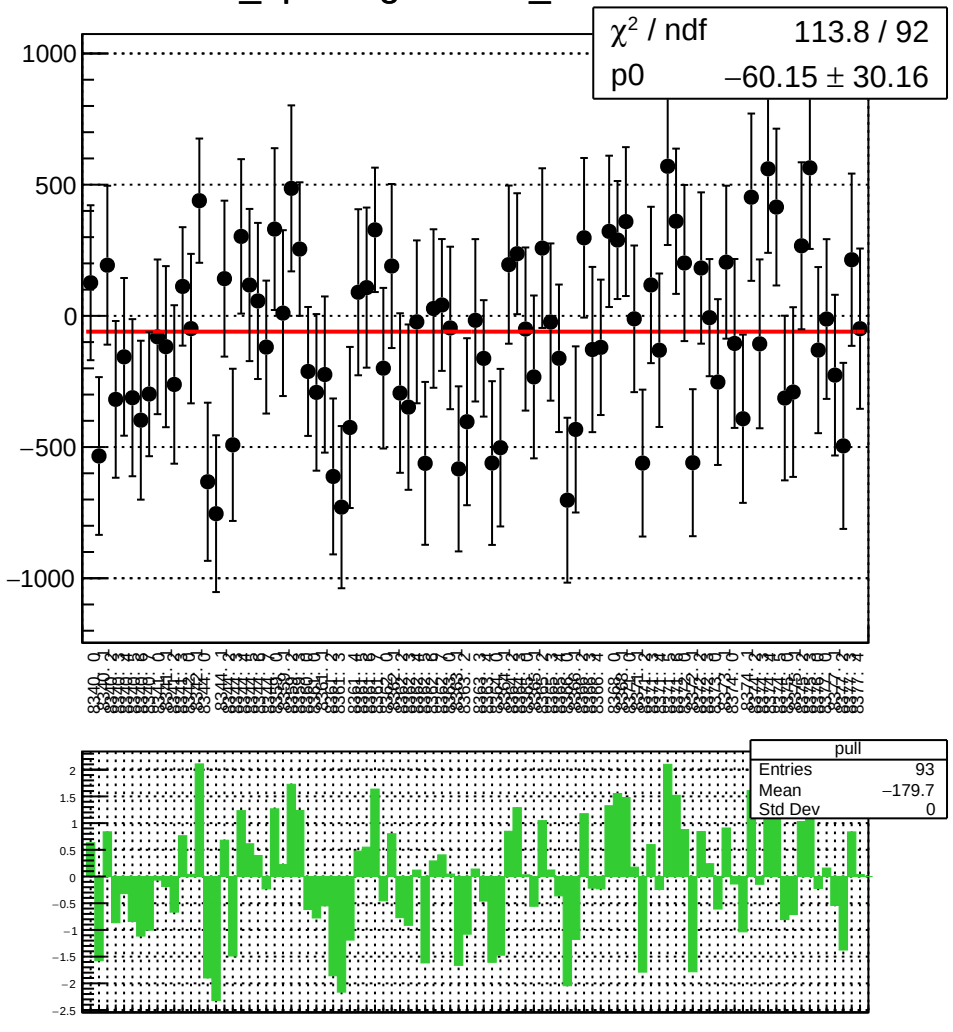

pull1D
Entries 93
Mean 0.008182
Std Dev 0.9663

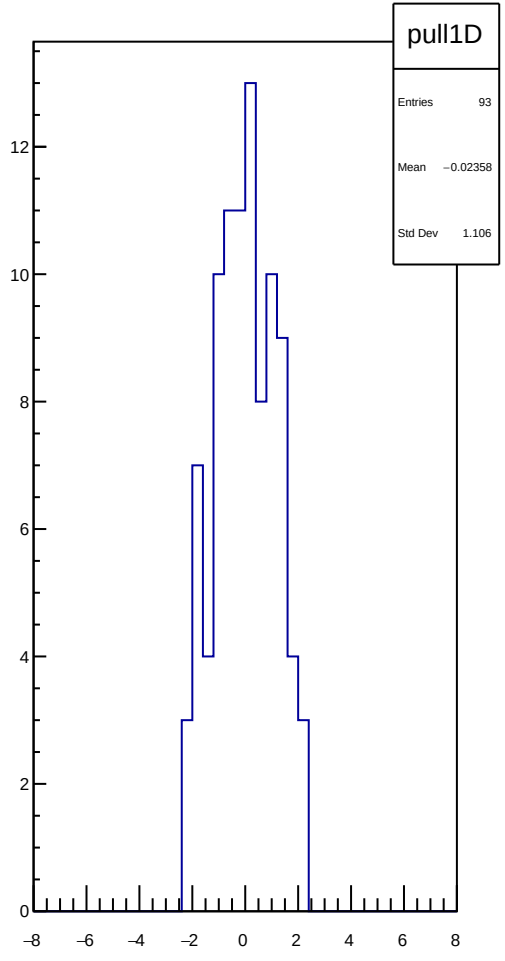

diff_bpm4aesumY_rms vs run
χ² / ndf 4562 / 92
p0 1.106e+04 ± 8.181
12500
12000
11500
11000
10500
10000

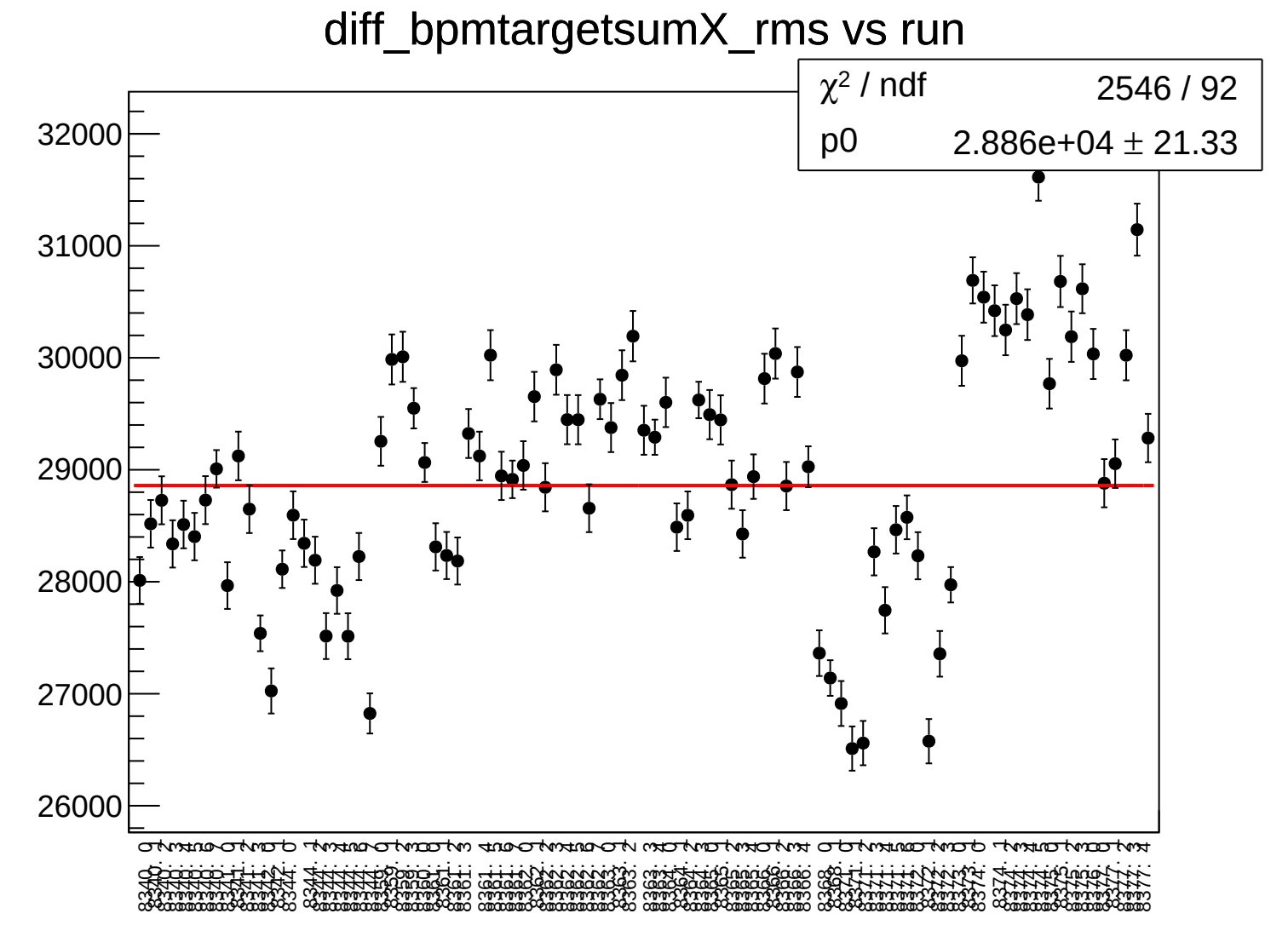

diff_bpm4aediffY_mean vs run
χ² / ndf 88.34 / 92
p0 11.06 ± 2.369
pull
Entries 93
Mean −659.7
Std Dev 0

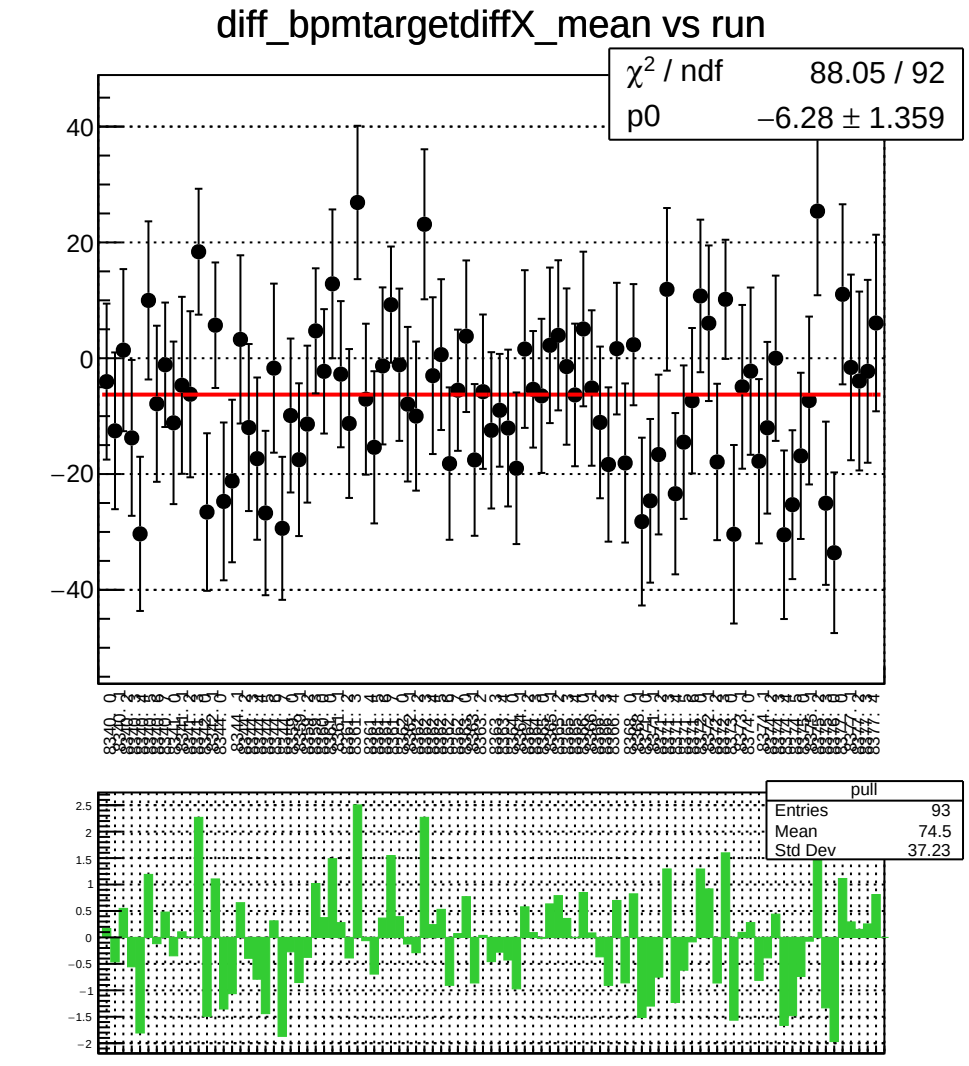

pull1D
Entries 93
Mean 0.00508
Std Dev 0.9746

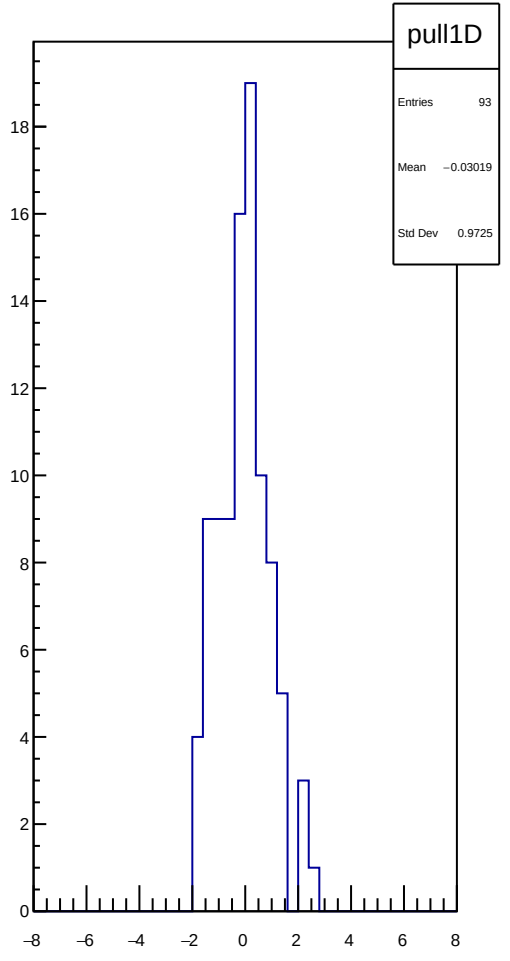

diff_bpm4aediffY_rms vs run
χ² / ndf 4882 / 92
p0 2265 ± 1.675
2600
2500
2400
2300
2200
2100
2000

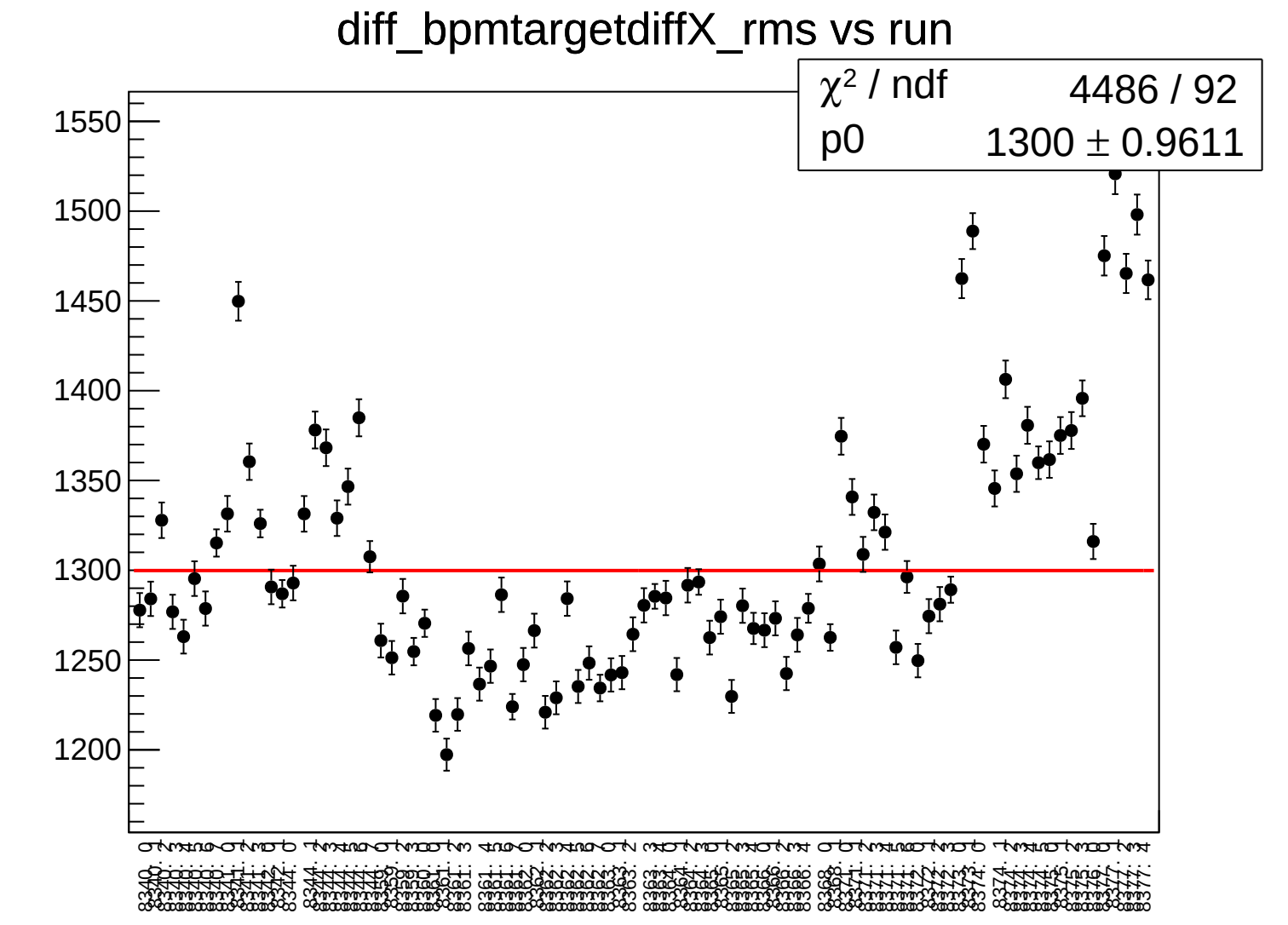

diff_bpmtargetsumX_mean vs run
χ² / ndf 113.8 / 92
p0 −60.15 ± 30.16
1000
500
0
−500
−1000
pull
Entries 93
Mean −179.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

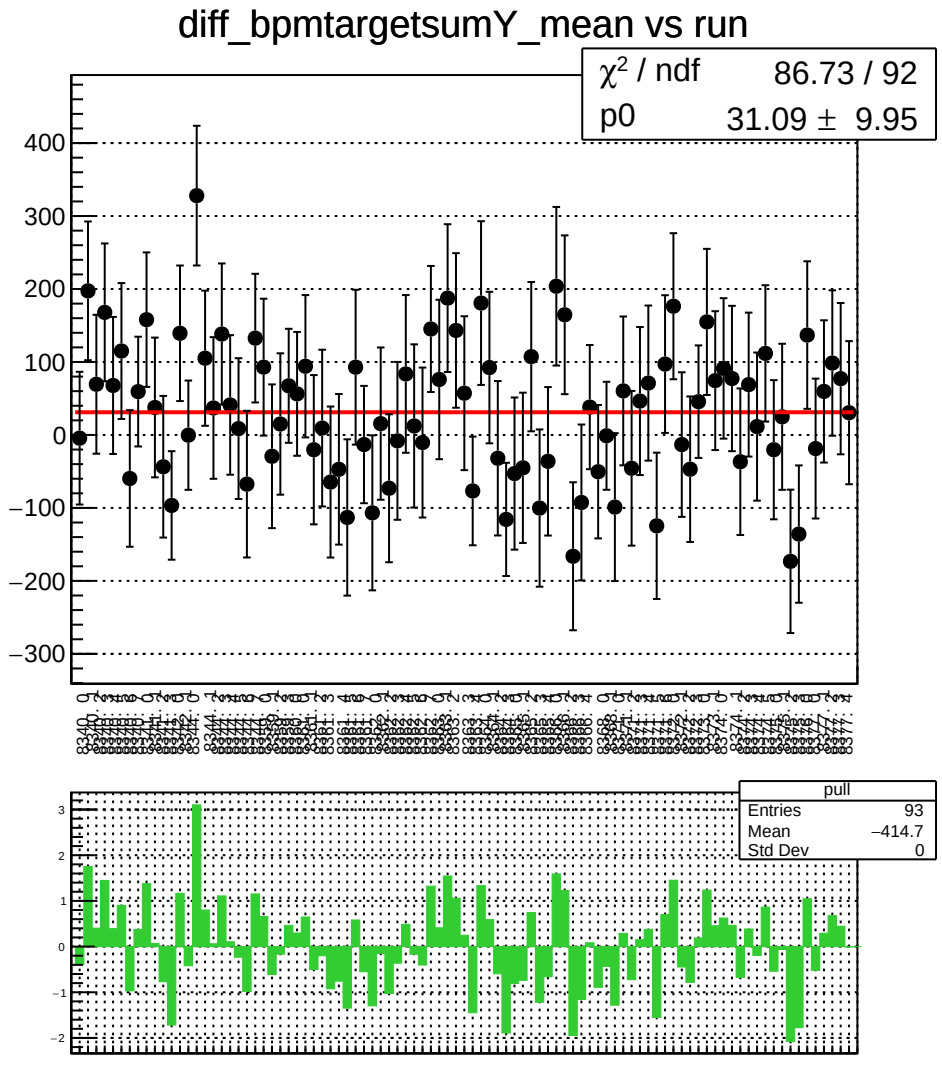

pull1D
Entries 93
Mean −0.02358
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

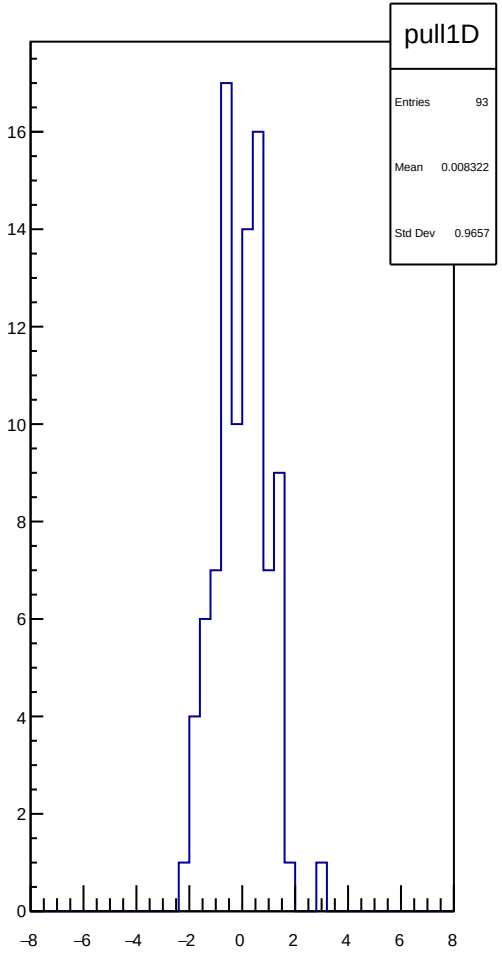

diff_bpmtargetsumX_rms vs run
χ² / ndf 2546 / 92
p0 2.886e+04 ± 21.33
32000
31000
30000
29000
28000
27000
26000

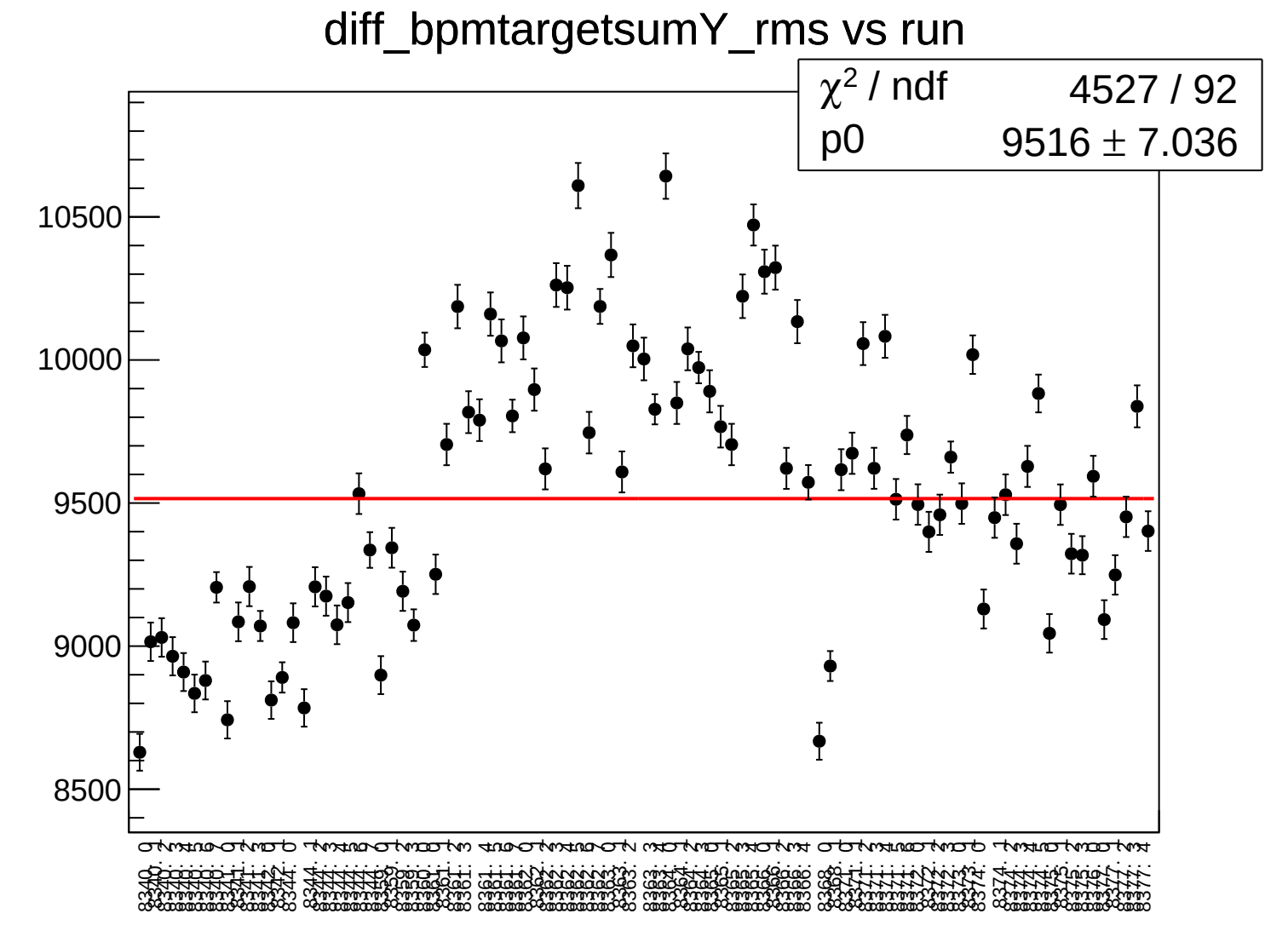

diff_bpmtargetdiffX_mean vs run
χ² / ndf 88.05 / 92
p0 −6.28 ± 1.359
40
20
0
−20
−40
pull
Entries 93
Mean 74.5
Std Dev 37.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

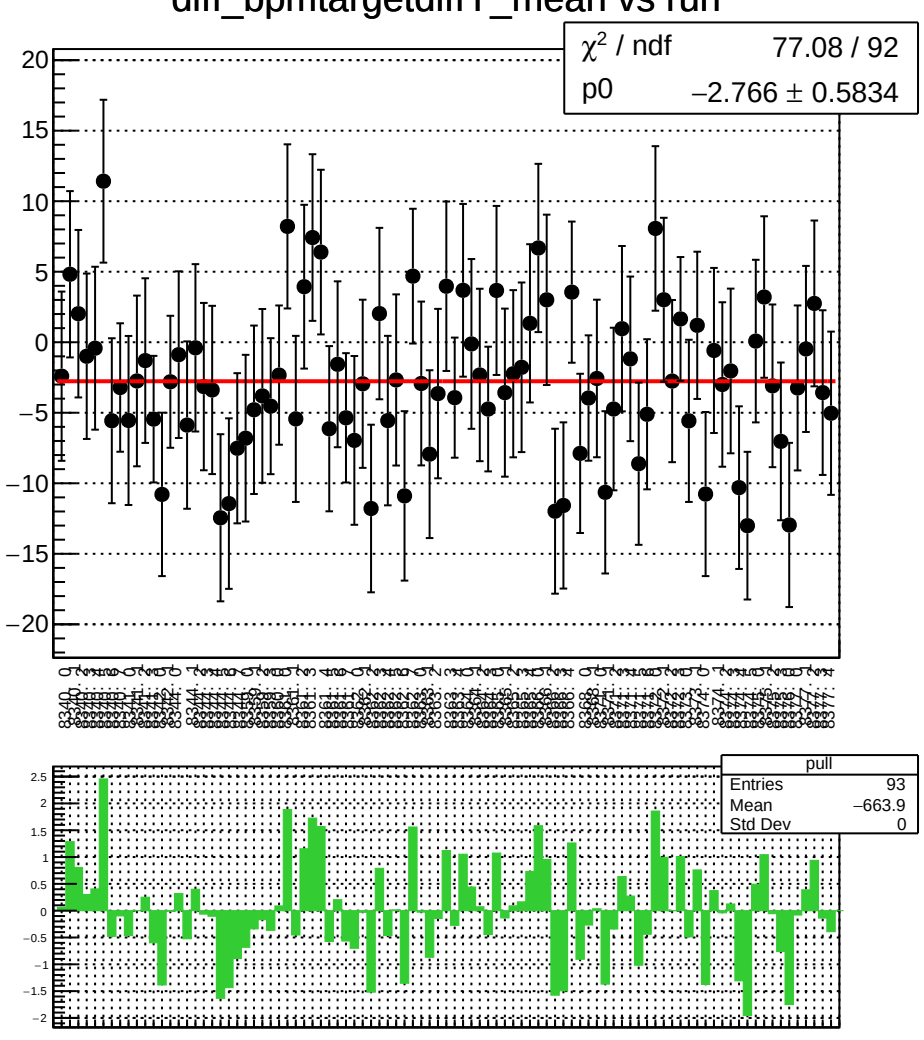

pull1D
Entries 93
Mean −0.03019
Std Dev 0.9725
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

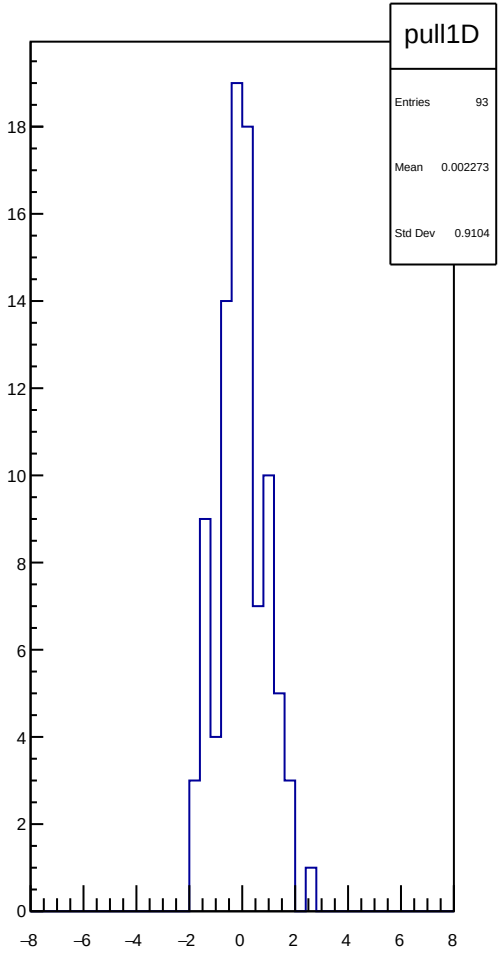

diff_bpmtargetdiffX_rms vs run
χ² / ndf 4486 / 92
p0 1300 ± 0.9611
1550
1500
1450
1400
1350
1300
1250
1200

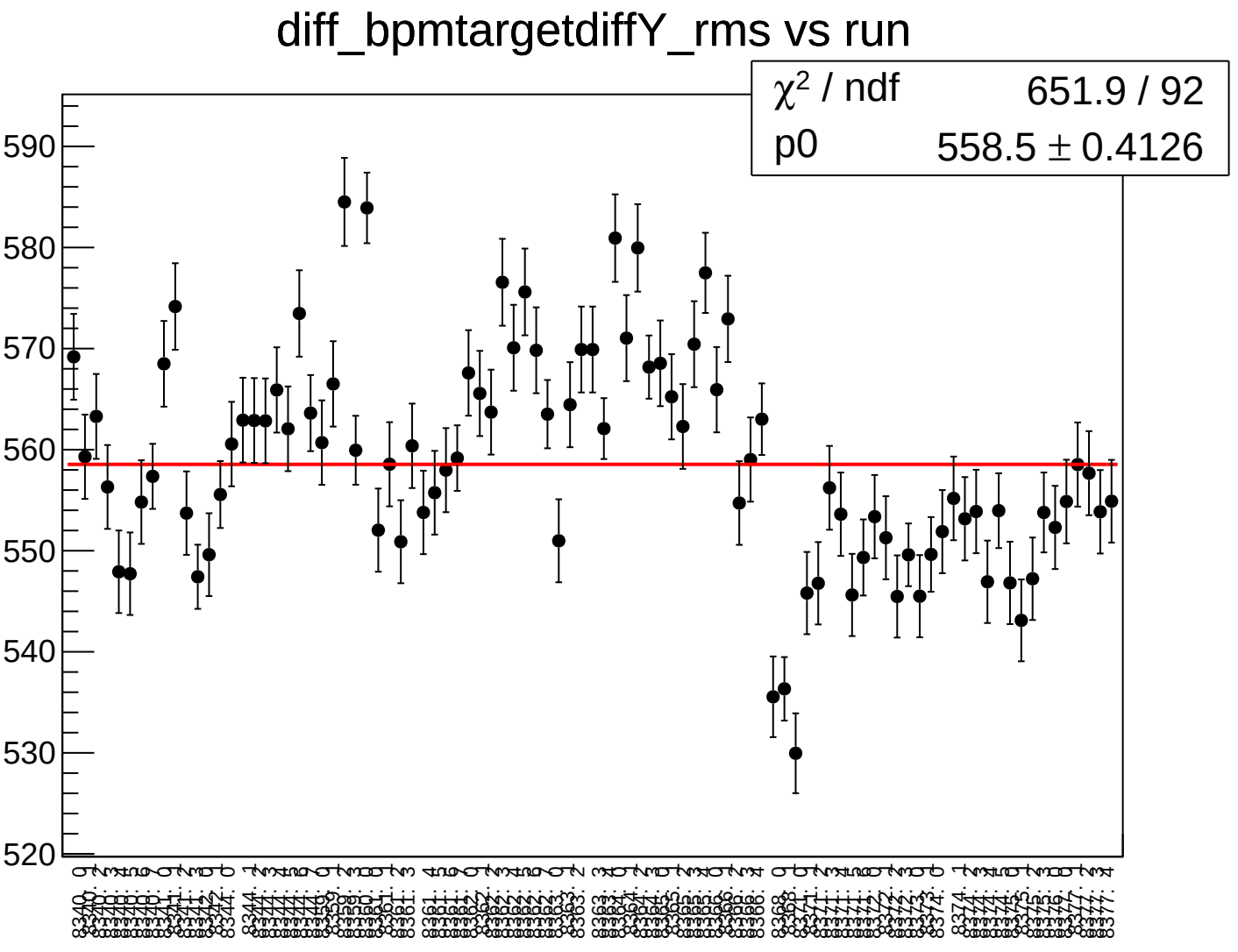

diff_bpmtargetsumY_mean vs run
χ² / ndf 86.73 / 92
p0 31.09 ± 9.95
pull
Entries 93
Mean −414.7
Std Dev 0

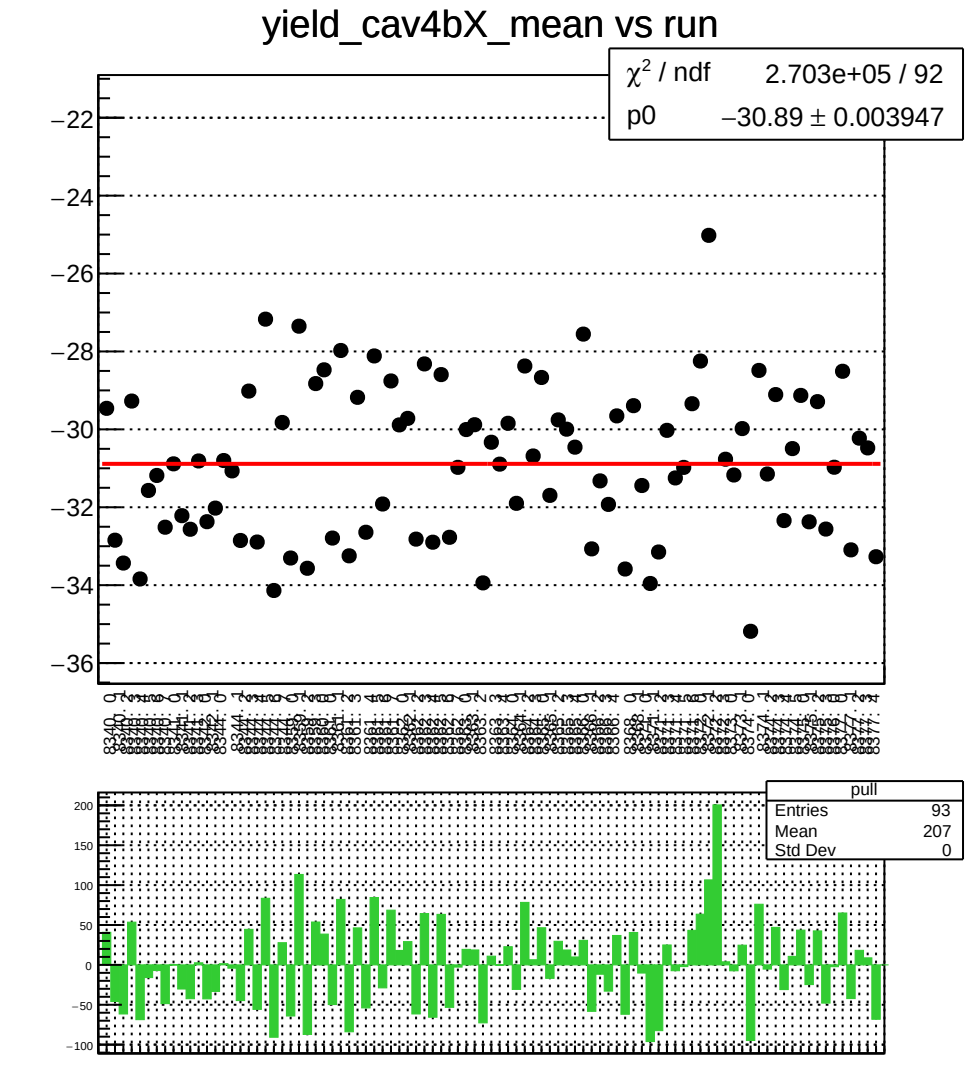

pull1D
Entries 93
Mean 0.008322
Std Dev 0.9657

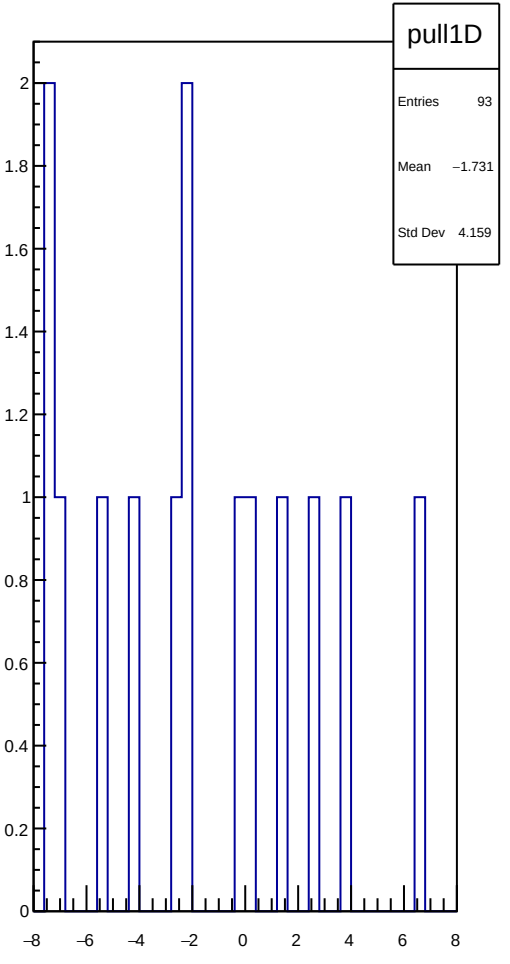

diff_bpmtargetsumY_rms vs run
χ² / ndf 4527 / 92
p0 9516 ± 7.036
10500
10000
9500
9000
8500

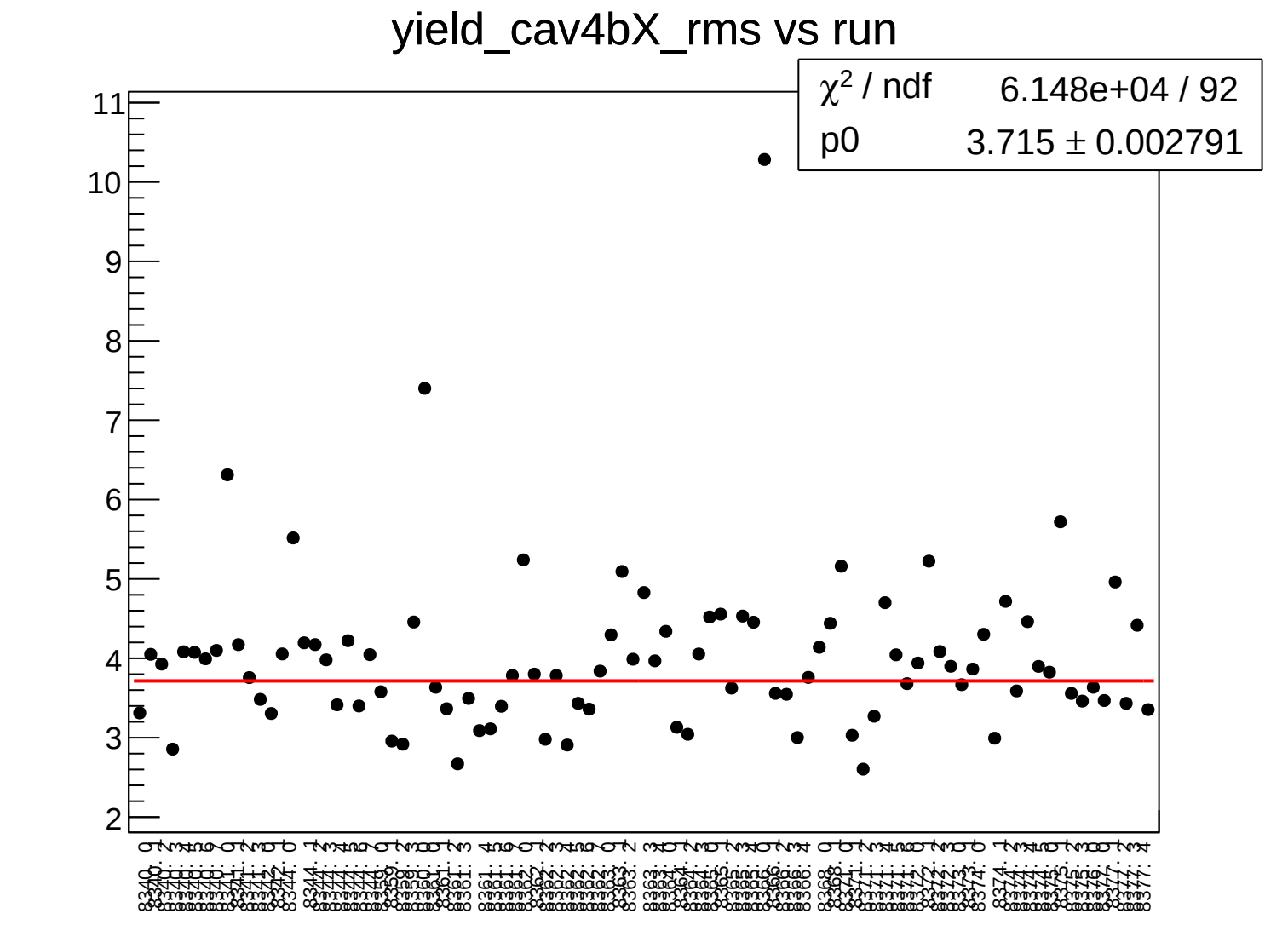

diff_bpmtargetdiffY_mean vs run
χ² / ndf 77.08 / 92
p0 −2.766 ± 0.5834
pull
Entries 93
Mean −663.9
Std Dev 0

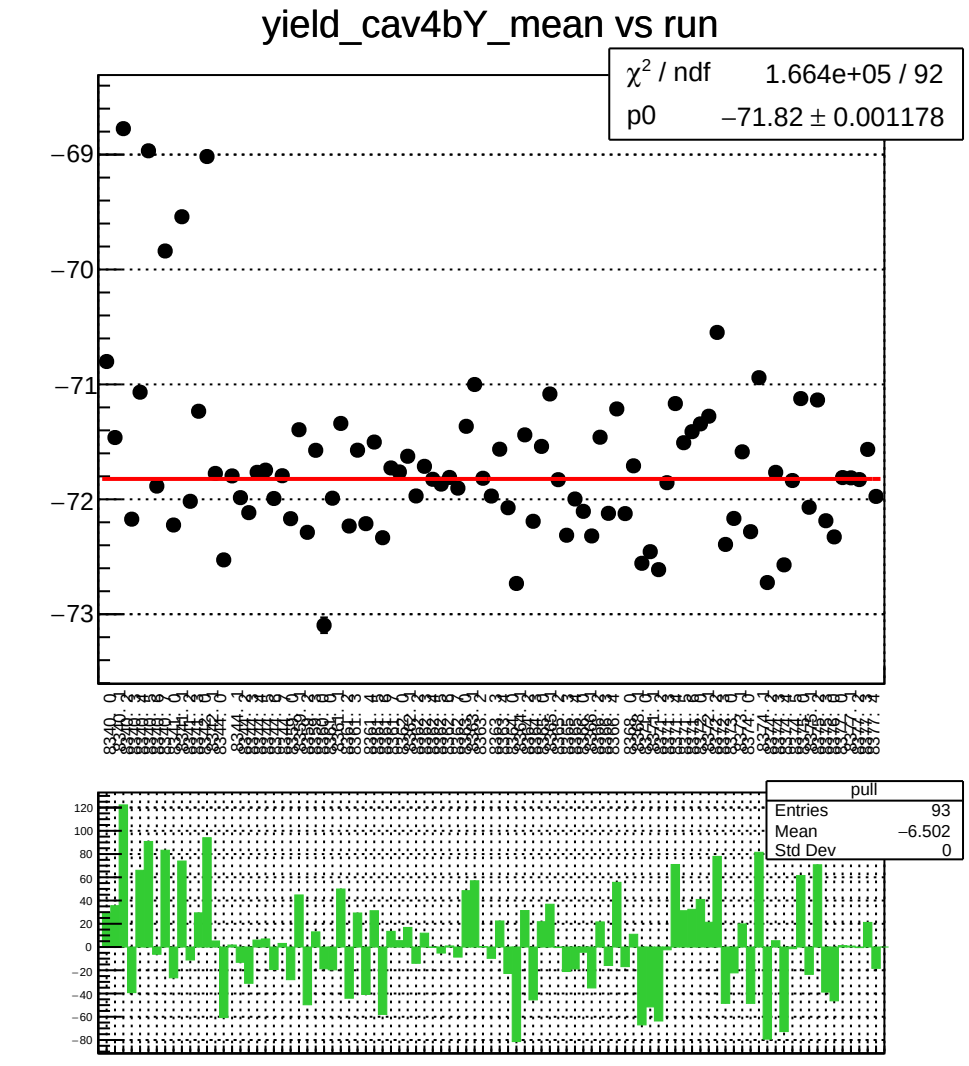

pull1D
Entries 93
Mean 0.002273
Std Dev 0.9104

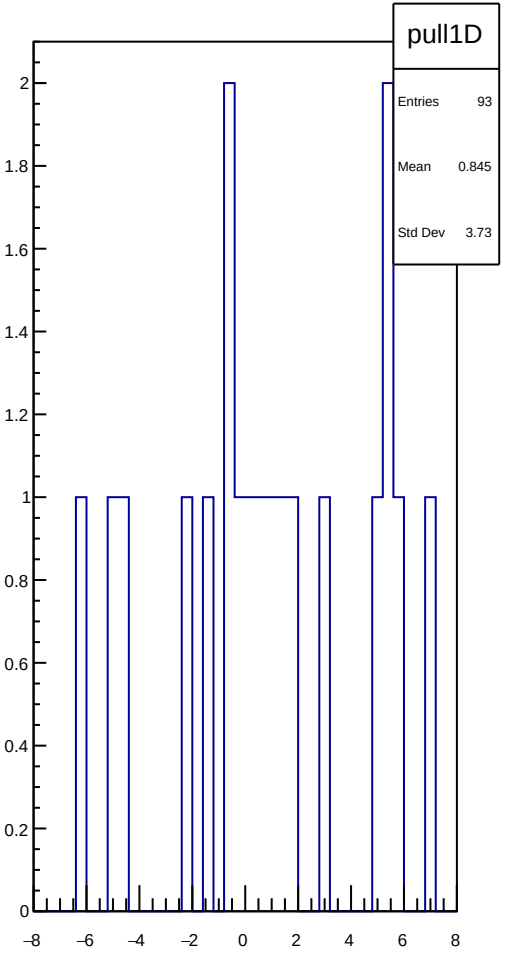

diff_bpmtargetdiffY_rms vs run
χ² / ndf 651.9 / 92
p0 558.5 ± 0.4126
590
580
570
560
550
540
530
520

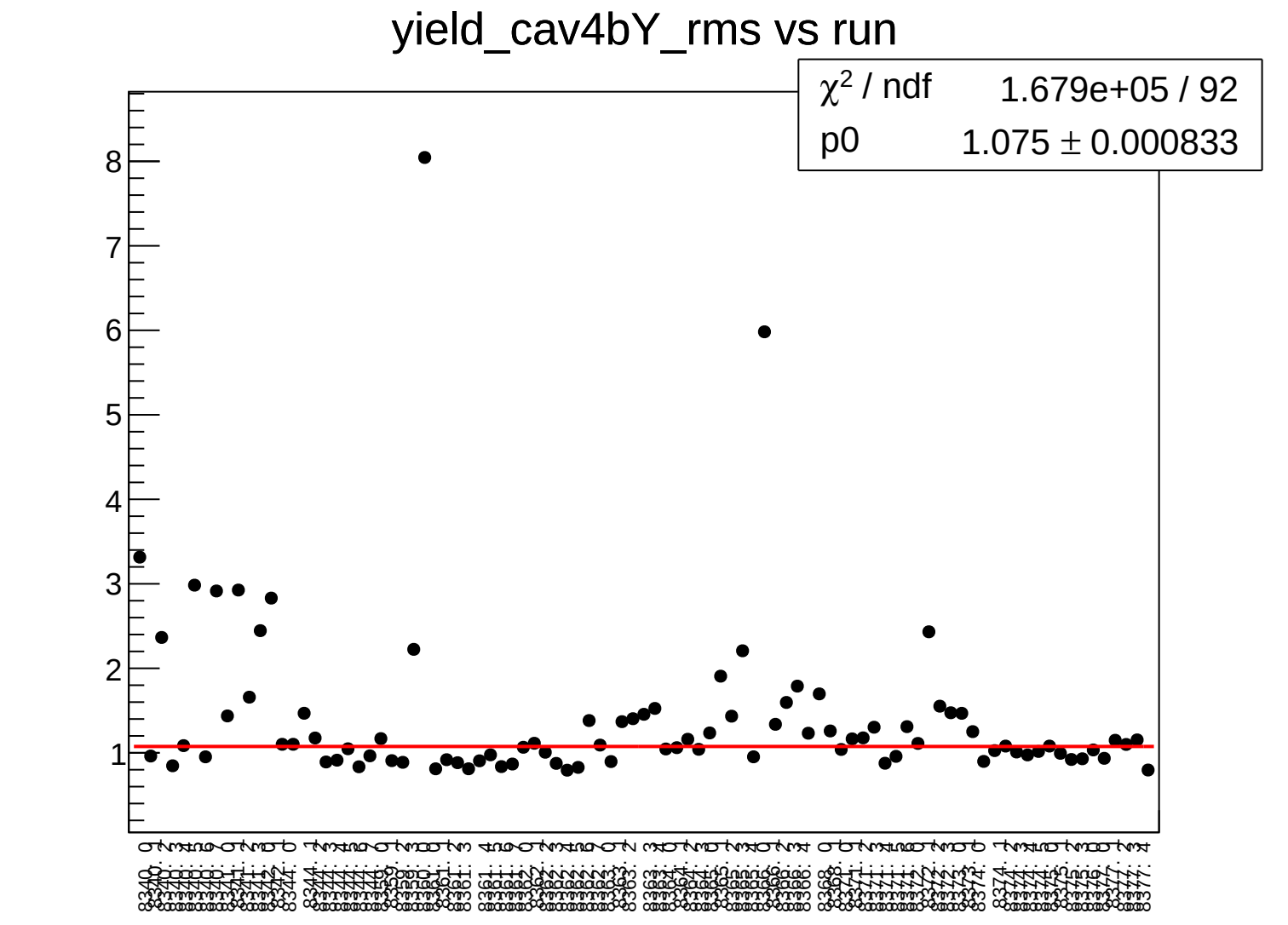

yield_cav4bX_mean vs run
χ² / ndf 2.703e+05 / 92
p0 −30.89 ± 0.003947
−22
−24
−26
−28
−30
−32
−34
−36
pull
Entries 93
Mean 207
Std Dev 0
200
150
100
50
0
−50
−100

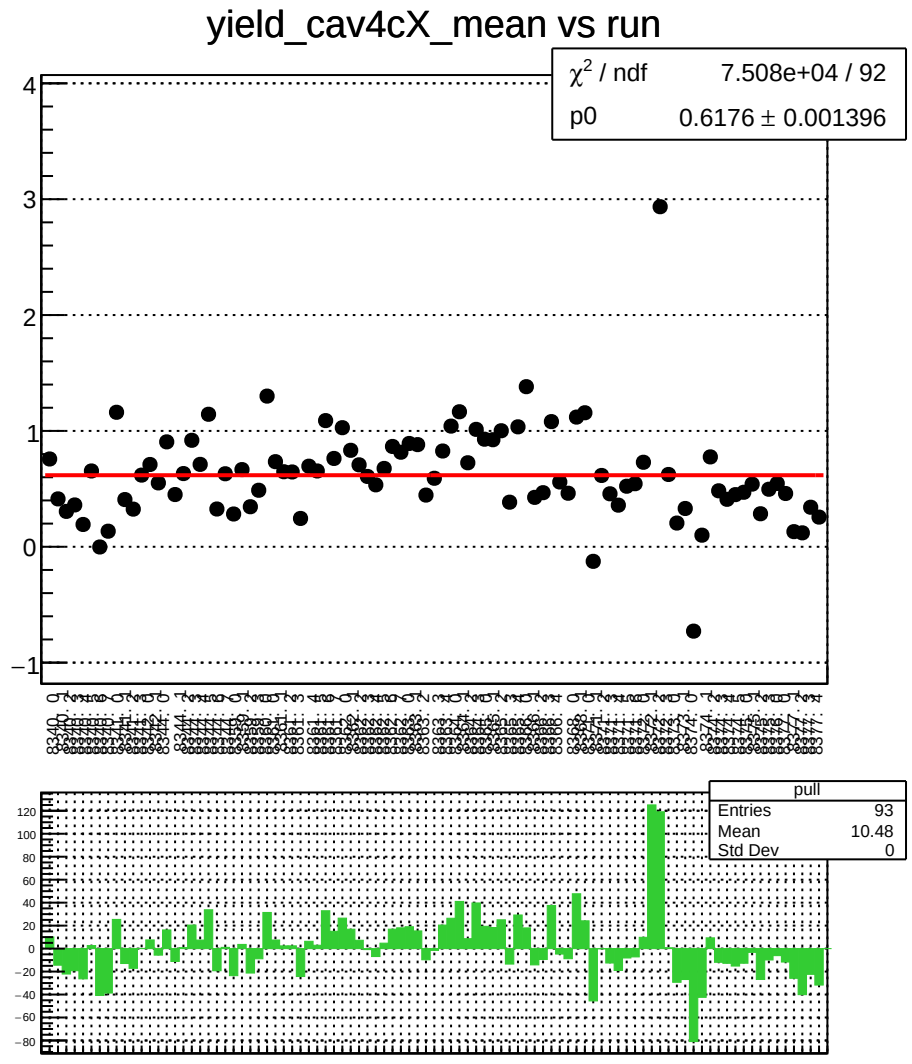

pull1D
Entries 93
Mean −1.731
Std Dev 4.159
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

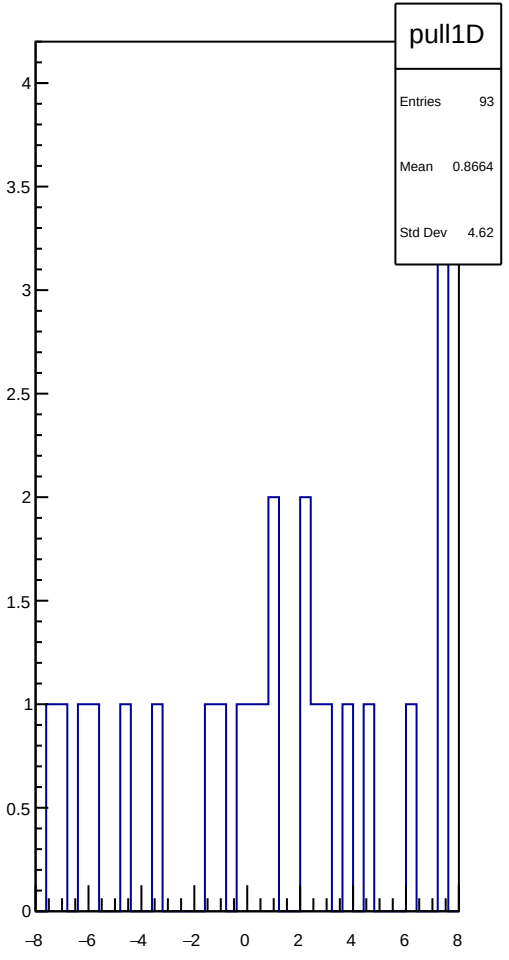

yield_cav4bX_rms vs run
χ^2 / ndf 6.148e+04 / 92
p0 3.715 ± 0.002791
11
10
9
8
7
6
5
4
3
2

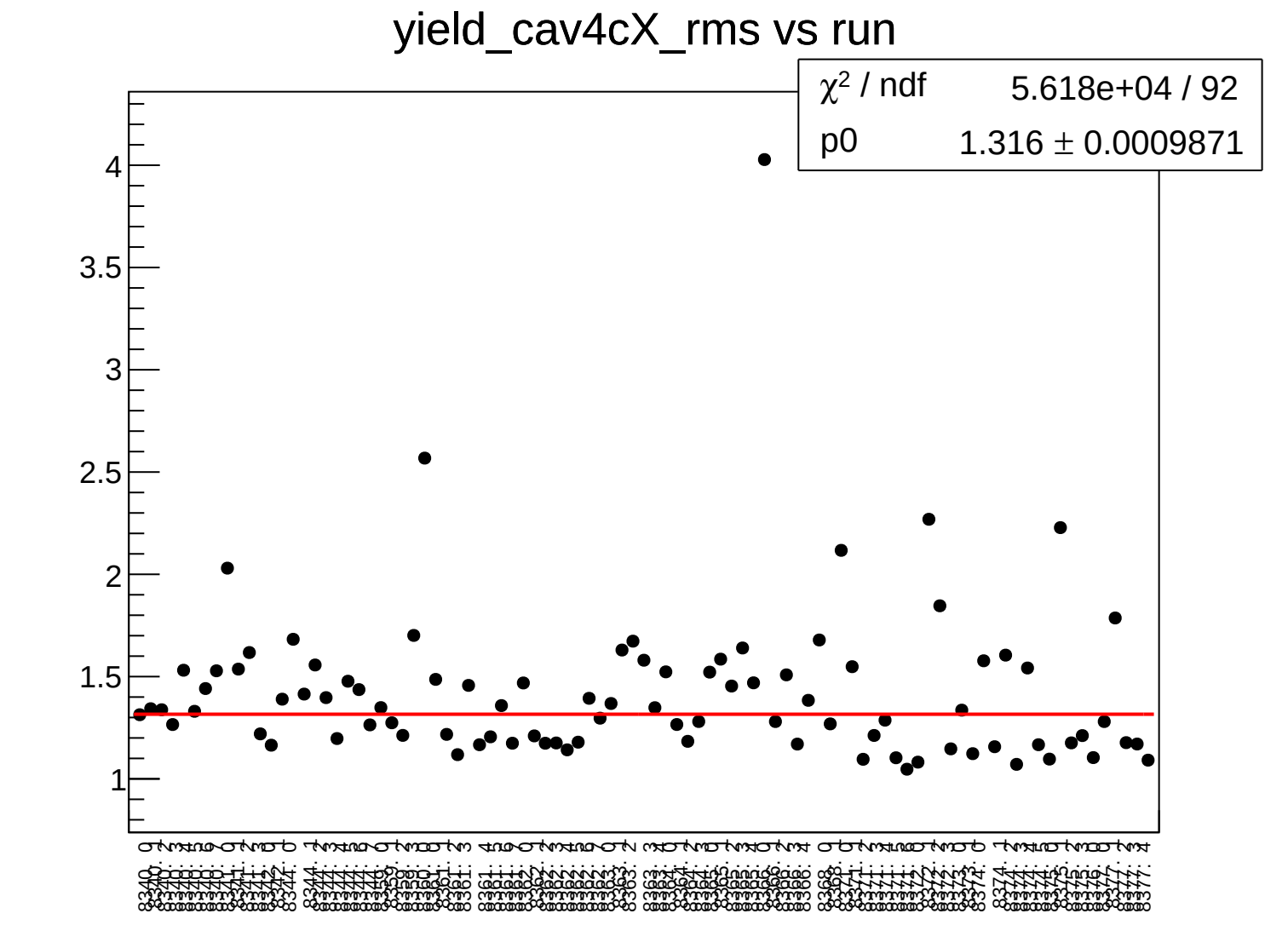

yield_cav4bY_mean vs run
χ² / ndf 1.664e+05 / 92
p0 −71.82 ± 0.001178
−69
−70
−71
−72
−73
pull
Entries 93
Mean −6.502
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

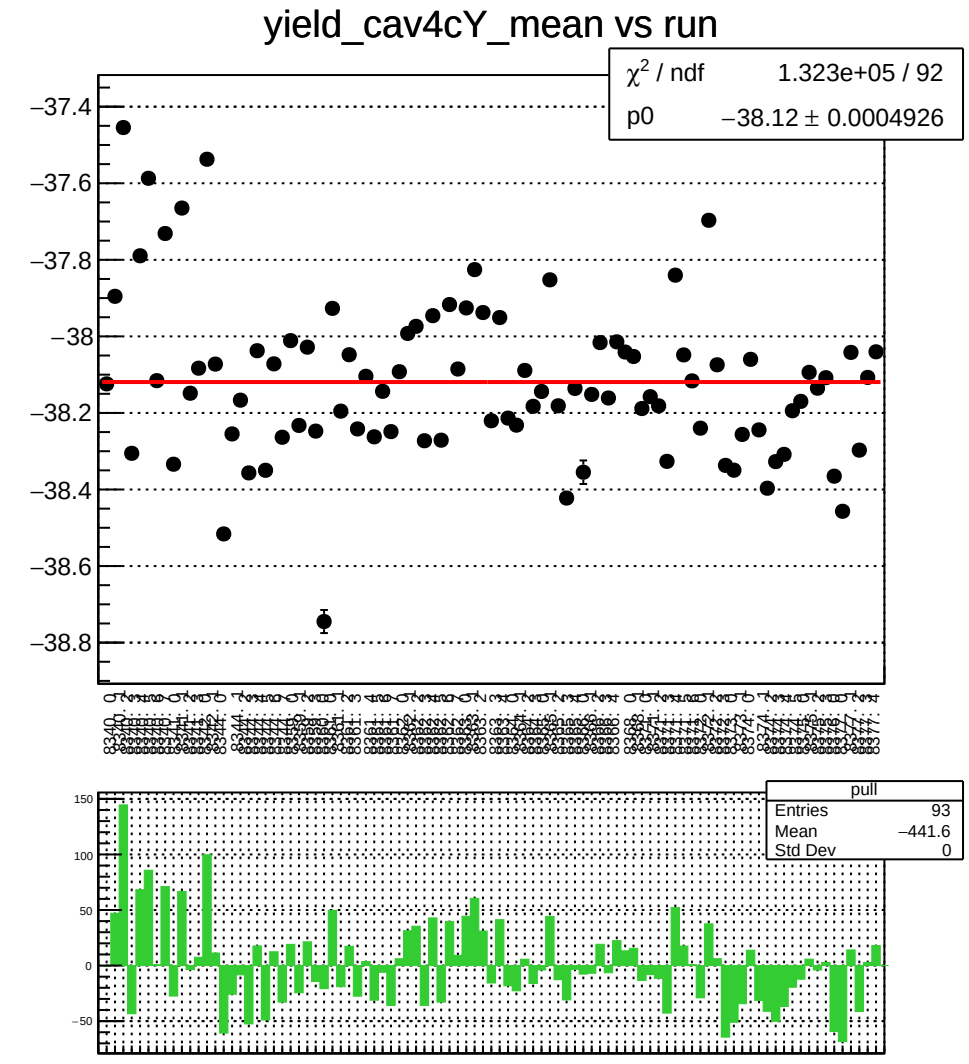

pull1D
Entries 93
Mean 0.845
Std Dev 3.73
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

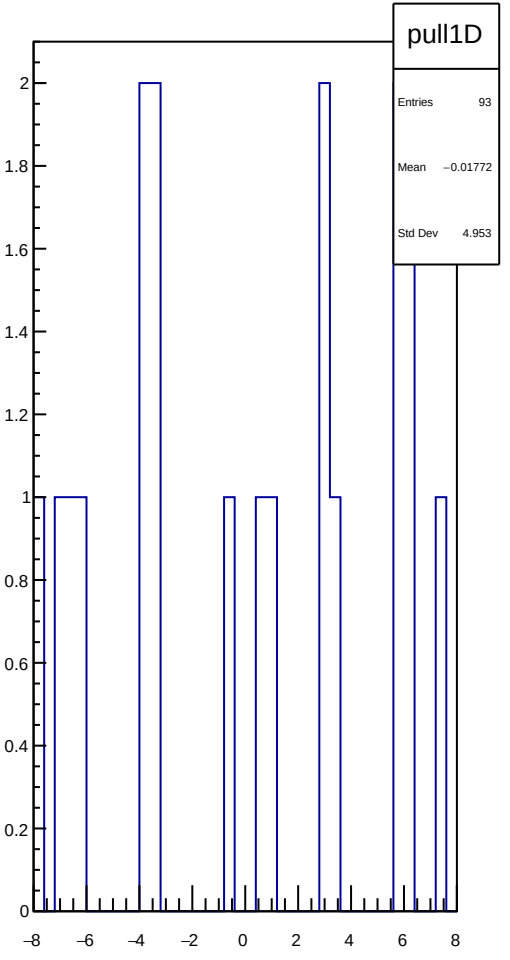

yield_cav4bY_rms vs run
χ^2 / ndf 1.679e+05 / 92
p0 1.075 ± 0.000833
8
7
6
5
4
3
2
1

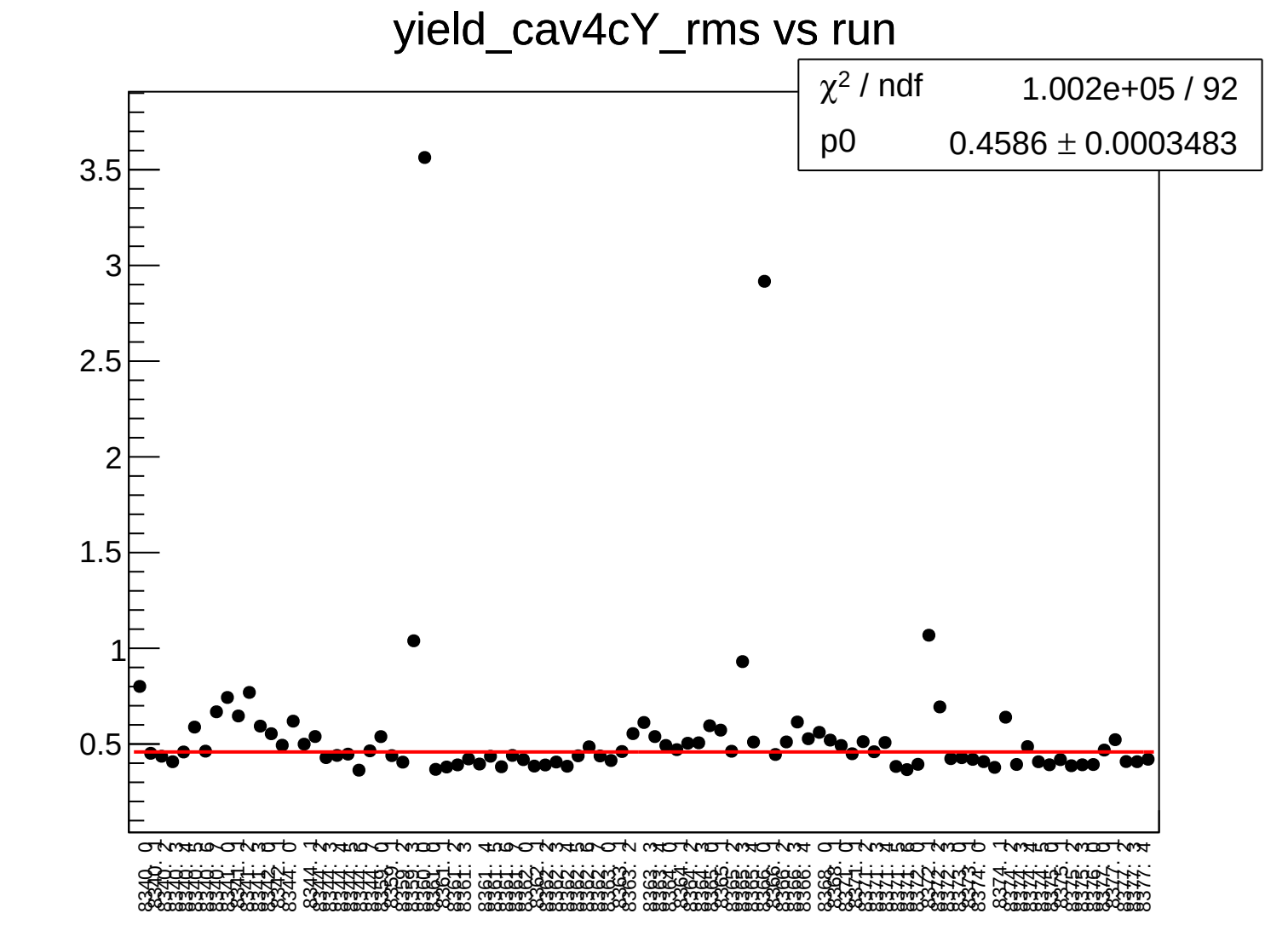

yield_cav4cX_mean vs run
χ² / ndf 7.508e+04 / 92
p0 0.6176 ± 0.001396
pull
Entries 93
Mean 10.48
Std Dev 0

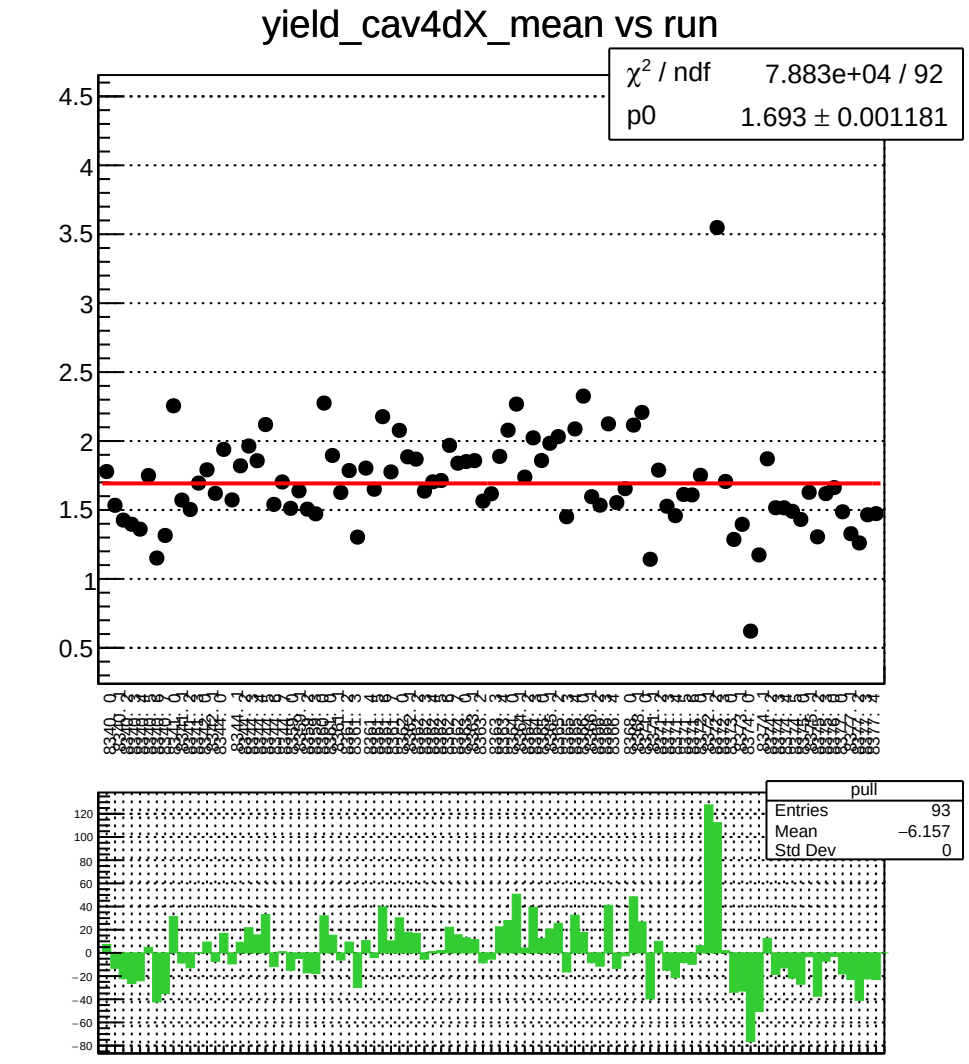

pull1D
Entries 93
Mean 0.8664
Std Dev 4.62

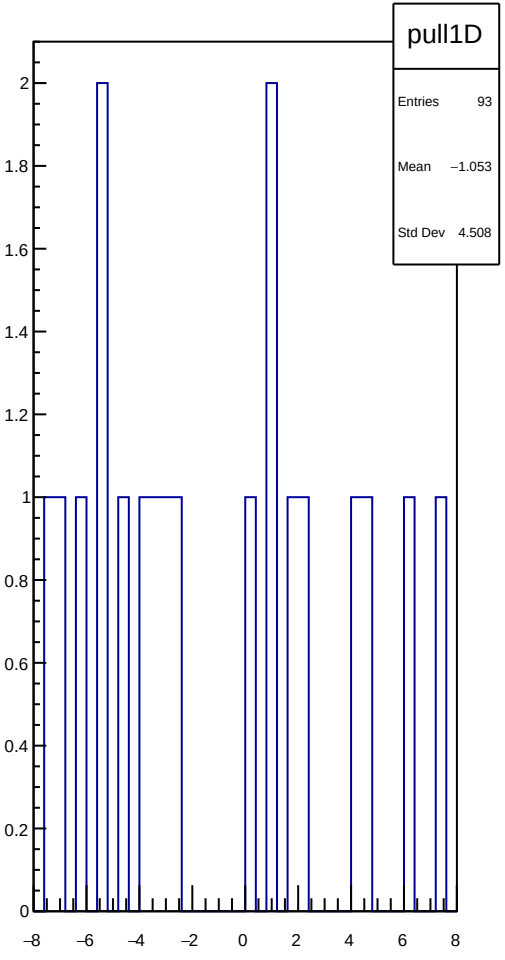

yield_cav4cX_rms vs run
χ² / ndf 5.618e+04 / 92
p0 1.316 ± 0.0009871
4
3.5
3
2.5
2
1.5
1

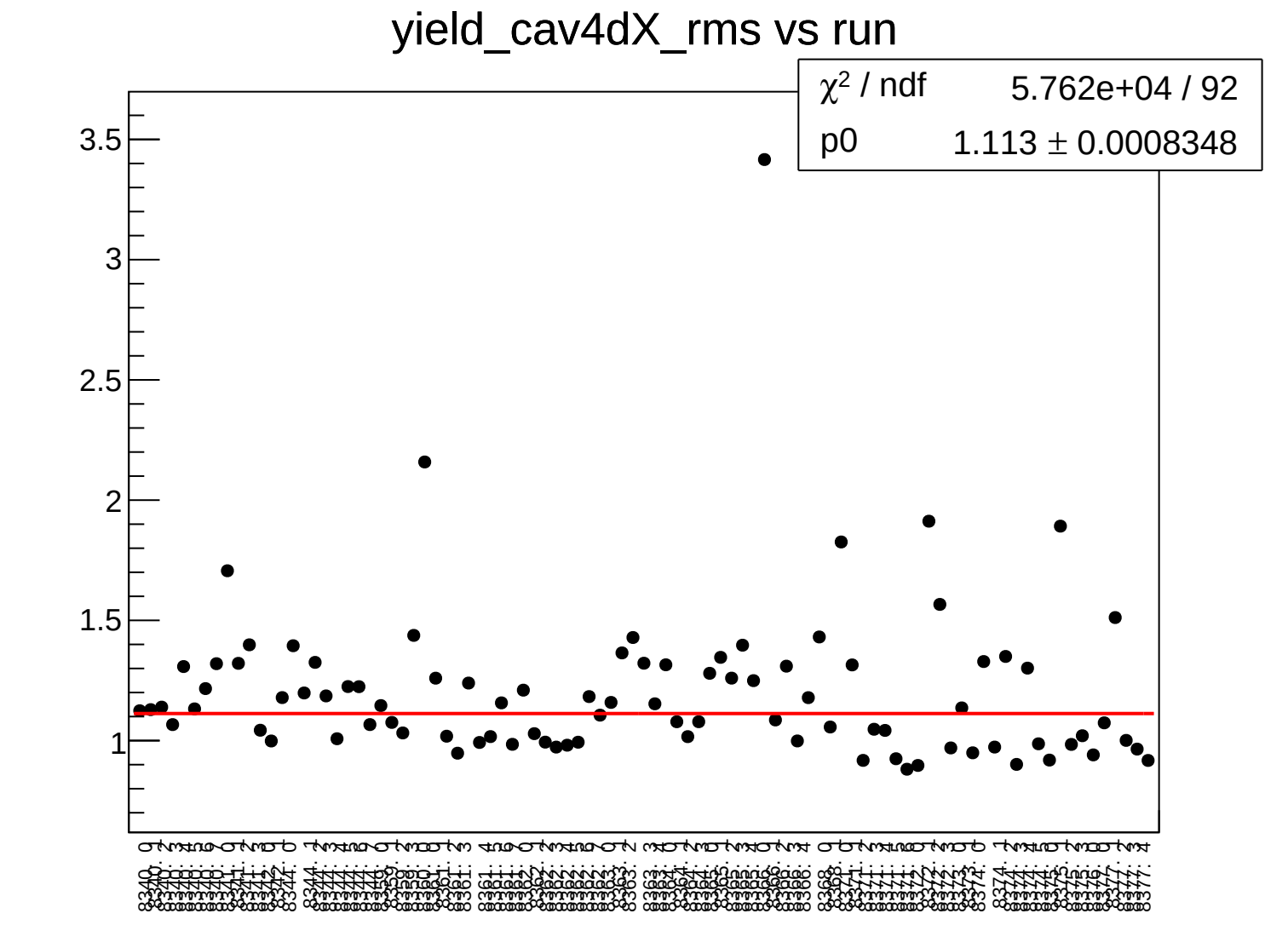

yield_cav4cY_mean vs run
χ² / ndf 1.323e+05 / 92
p0 −38.12 ± 0.0004926
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
−38.8
pull
Entries 93
Mean −441.6
Std Dev 0
150
100
50
0
−50

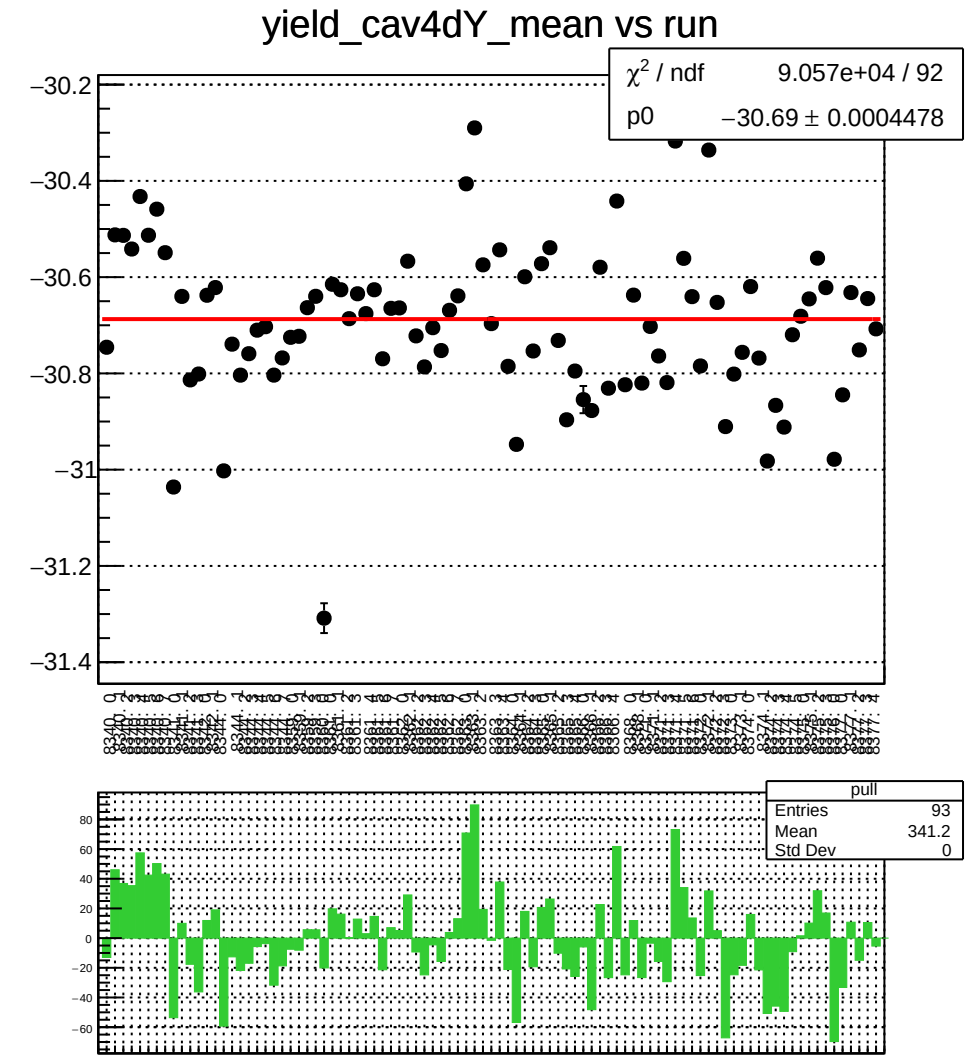

pull1D
Entries 93
Mean −0.01772
Std Dev 4.953
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

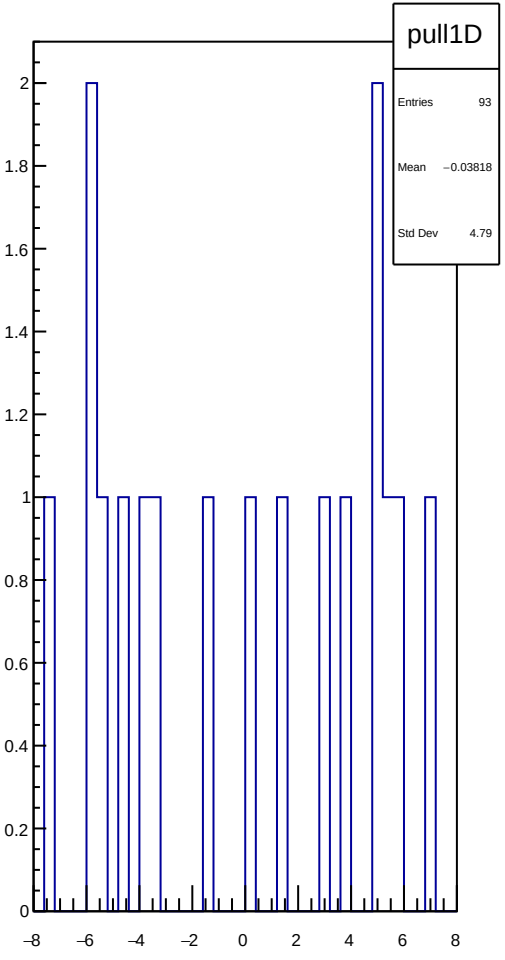

yield_cav4cY_rms vs run
χ² / ndf 1.002e+05 / 92
p0 0.4586 ± 0.0003483
3.5
3
2.5
2
1.5
1
0.5

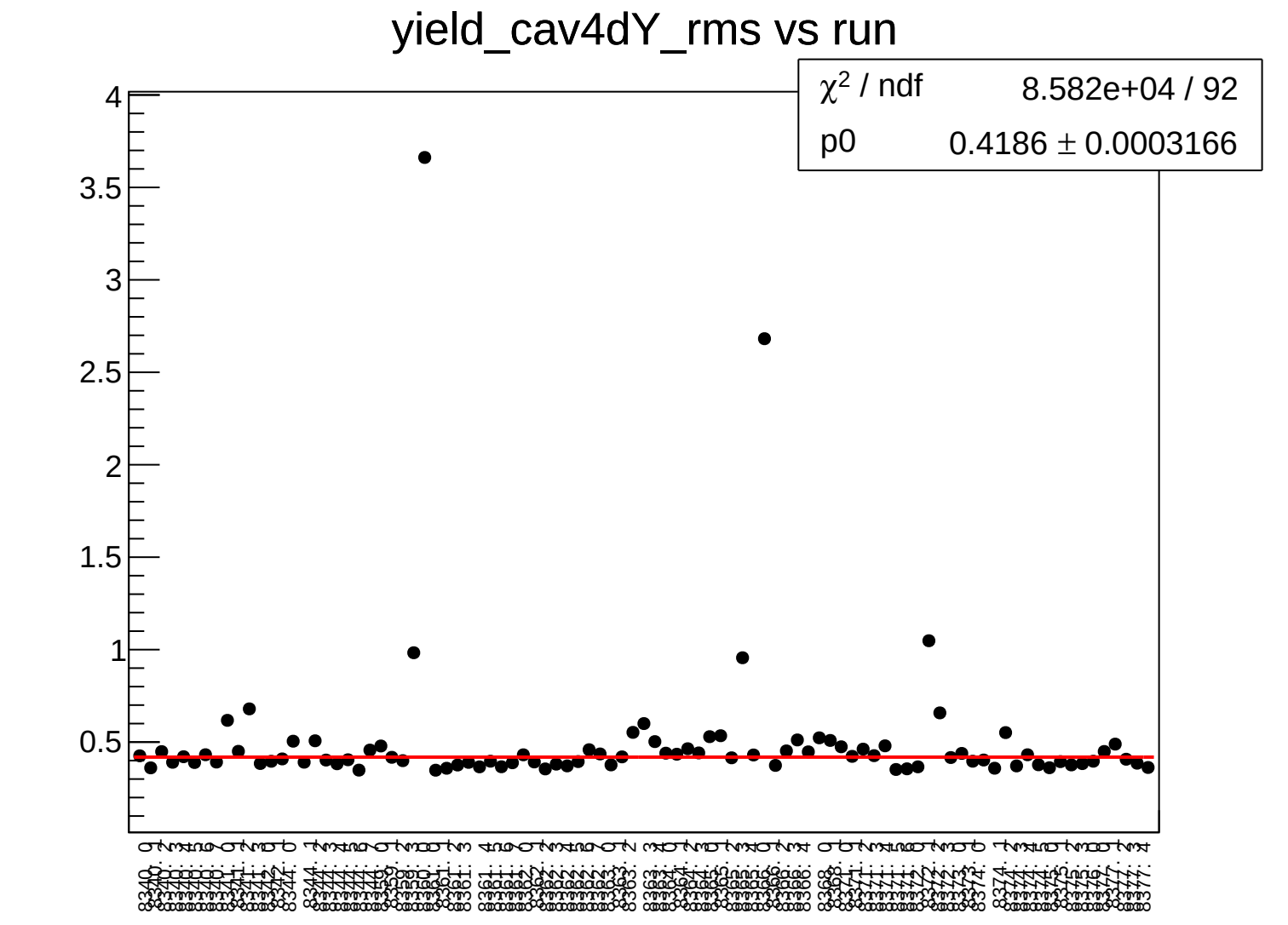

yield_cav4dX_mean vs run
χ² / ndf 7.883e+04 / 92
p0 1.693 ± 0.001181
pull
Entries 93
Mean −6.157
Std Dev 0

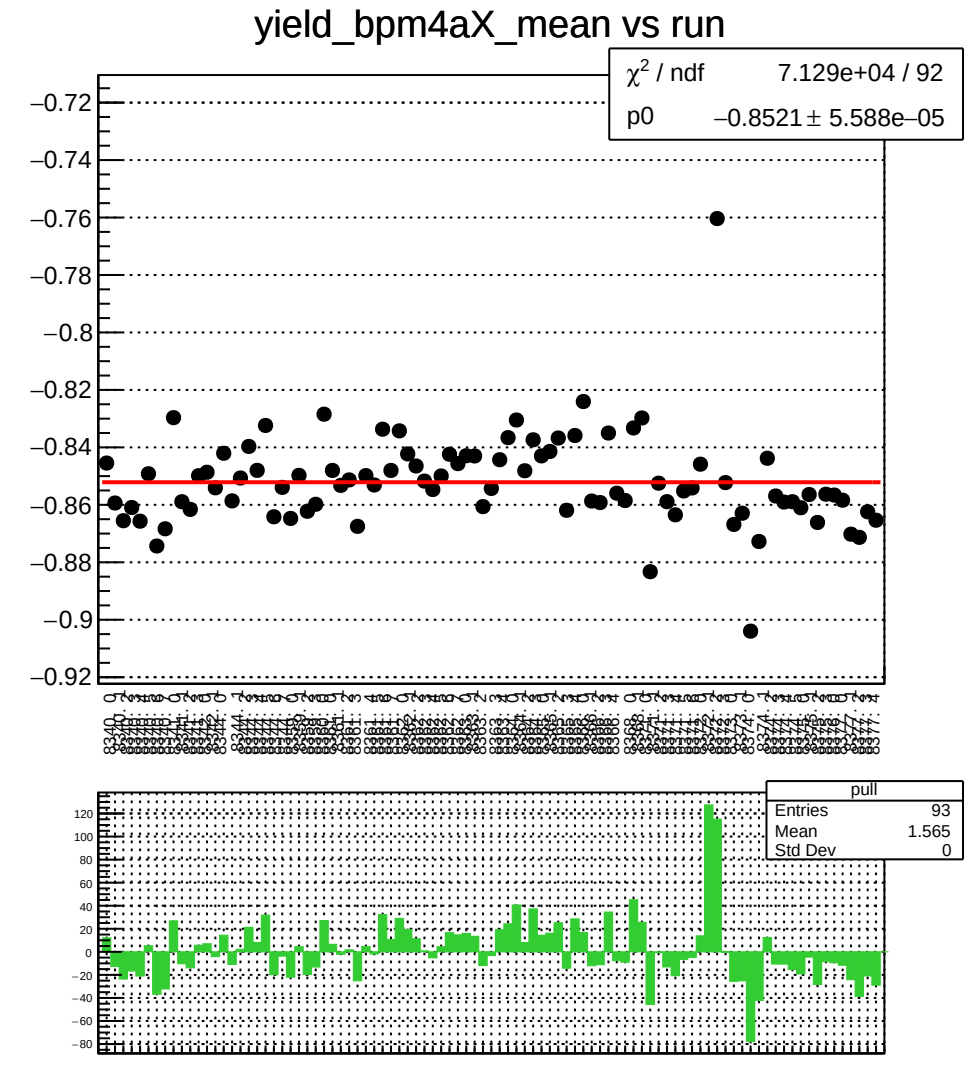

pull1D
Entries 93
Mean −1.053
Std Dev 4.508

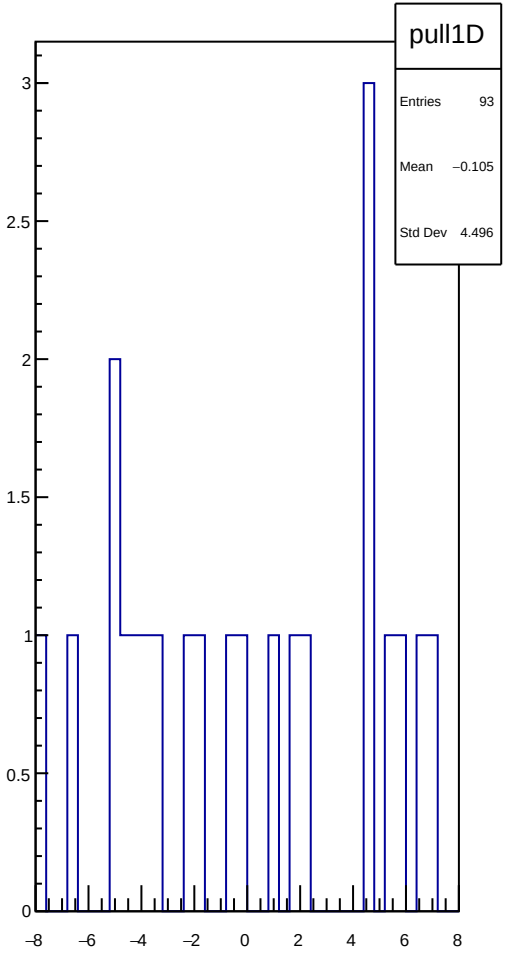

yield_cav4dX_rms vs run
χ² / ndf 5.762e+04 / 92
p0 1.113 ± 0.0008348
3.5
3
2.5
2
1.5
1

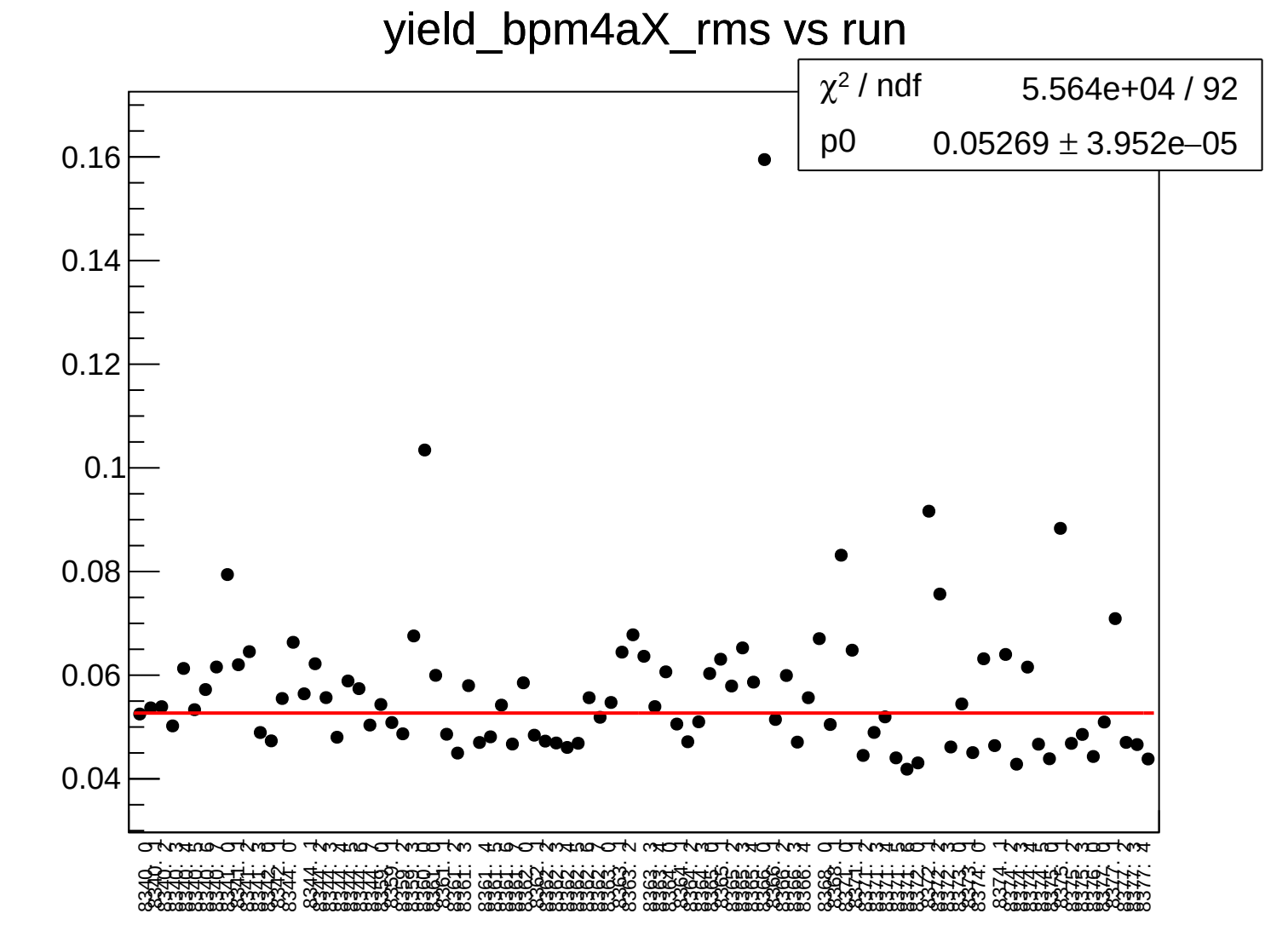

yield_cav4dY_mean vs run
χ² / ndf 9.057e+04 / 92
p0 −30.69 ± 0.0004478
−30.2
−30.4
−30.6
−30.8
−31
−31.2
−31.4
pull
Entries 93
Mean 341.2
Std Dev 0
80
60
40
20
0
−20
−40
−60

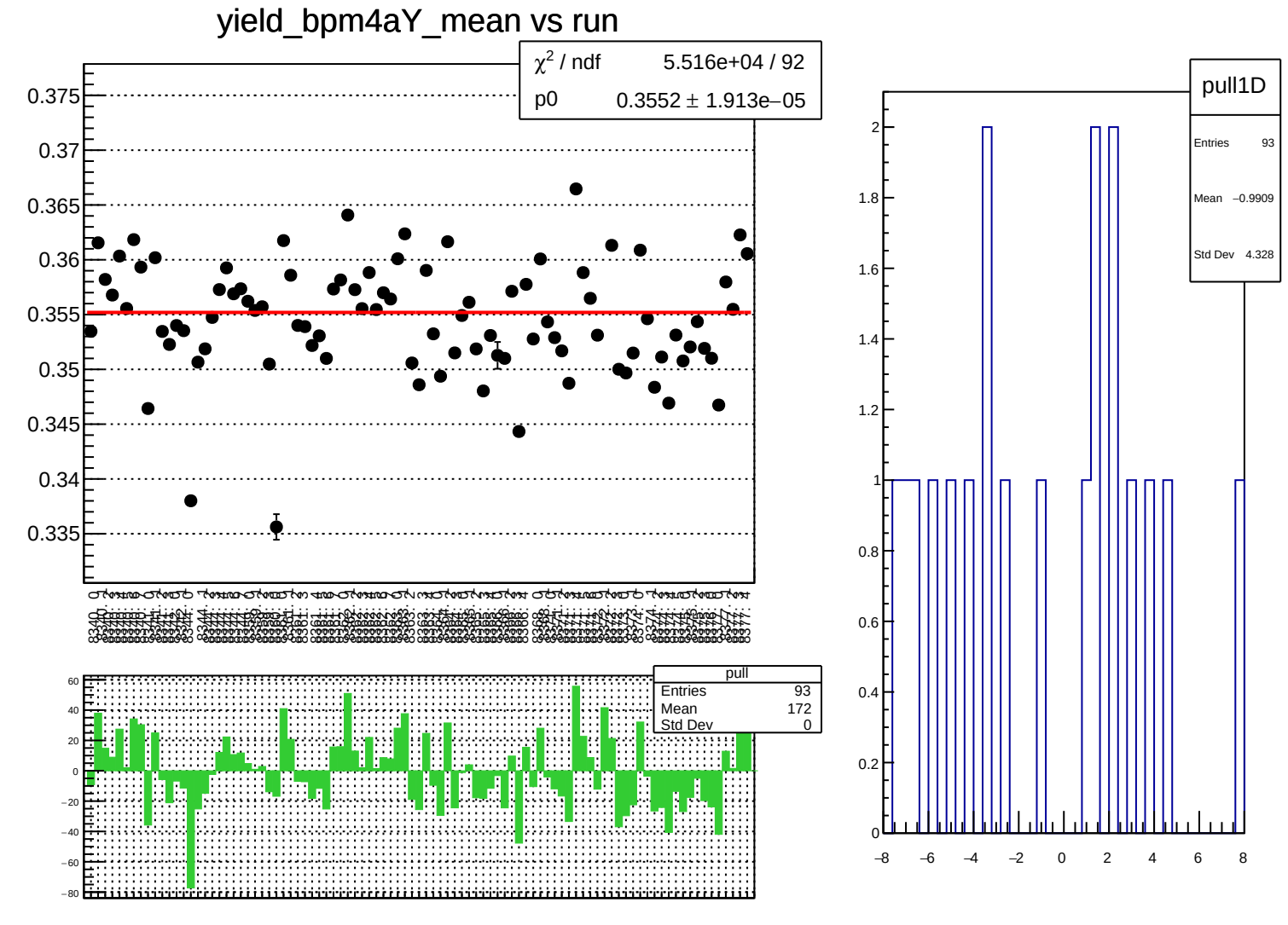

pull1D
Entries 93
Mean −0.03818
Std Dev 4.79
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

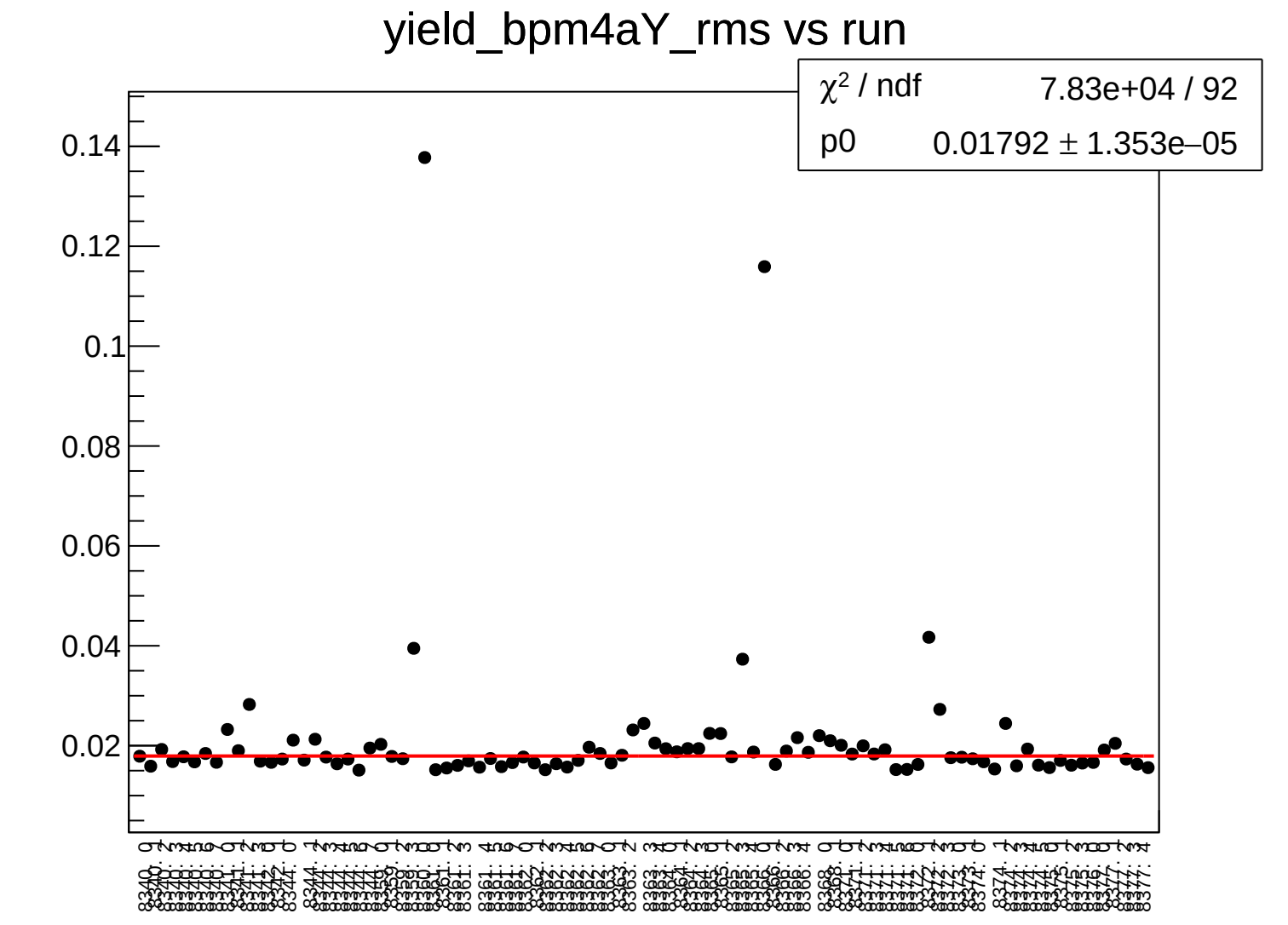

yield_cav4dY_rms vs run
χ² / ndf 8.582e+04 / 92
p0 0.4186 ± 0.0003166
4
3.5
3
2.5
2
1.5
1
0.5

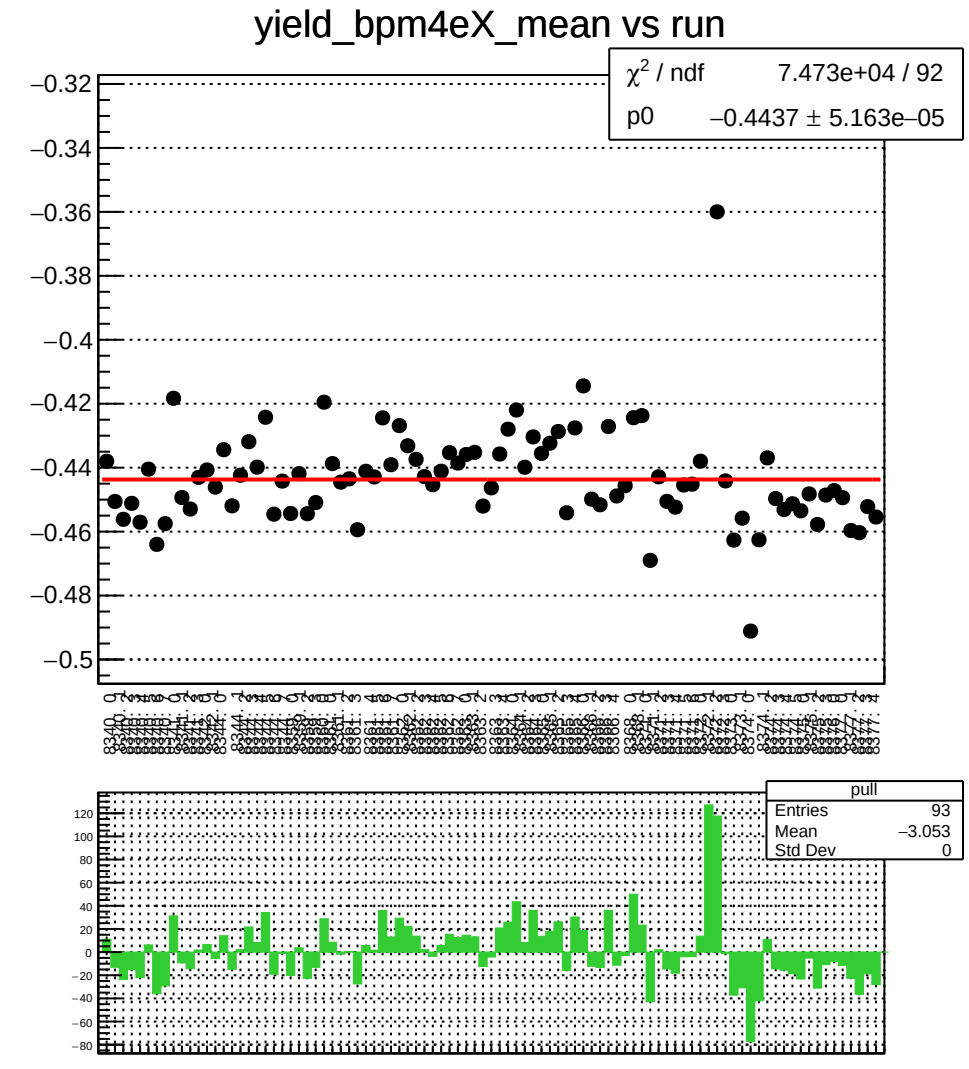

yield_bpm4aX_mean vs run
χ² / ndf 7.129e+04 / 92
p0 −0.8521 ± 5.588e−05
pull
Entries 93
Mean 1.565
Std Dev 0

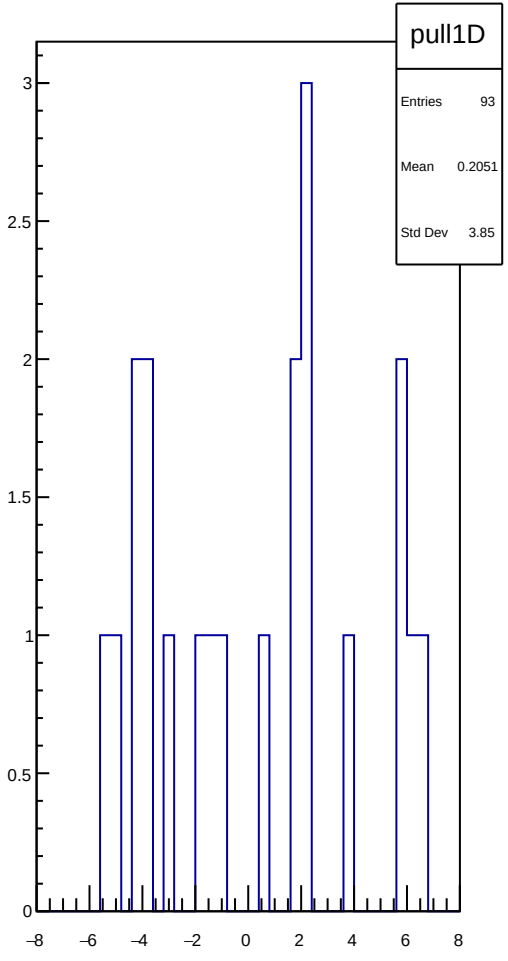

pull1D
Entries 93
Mean −0.105
Std Dev 4.496

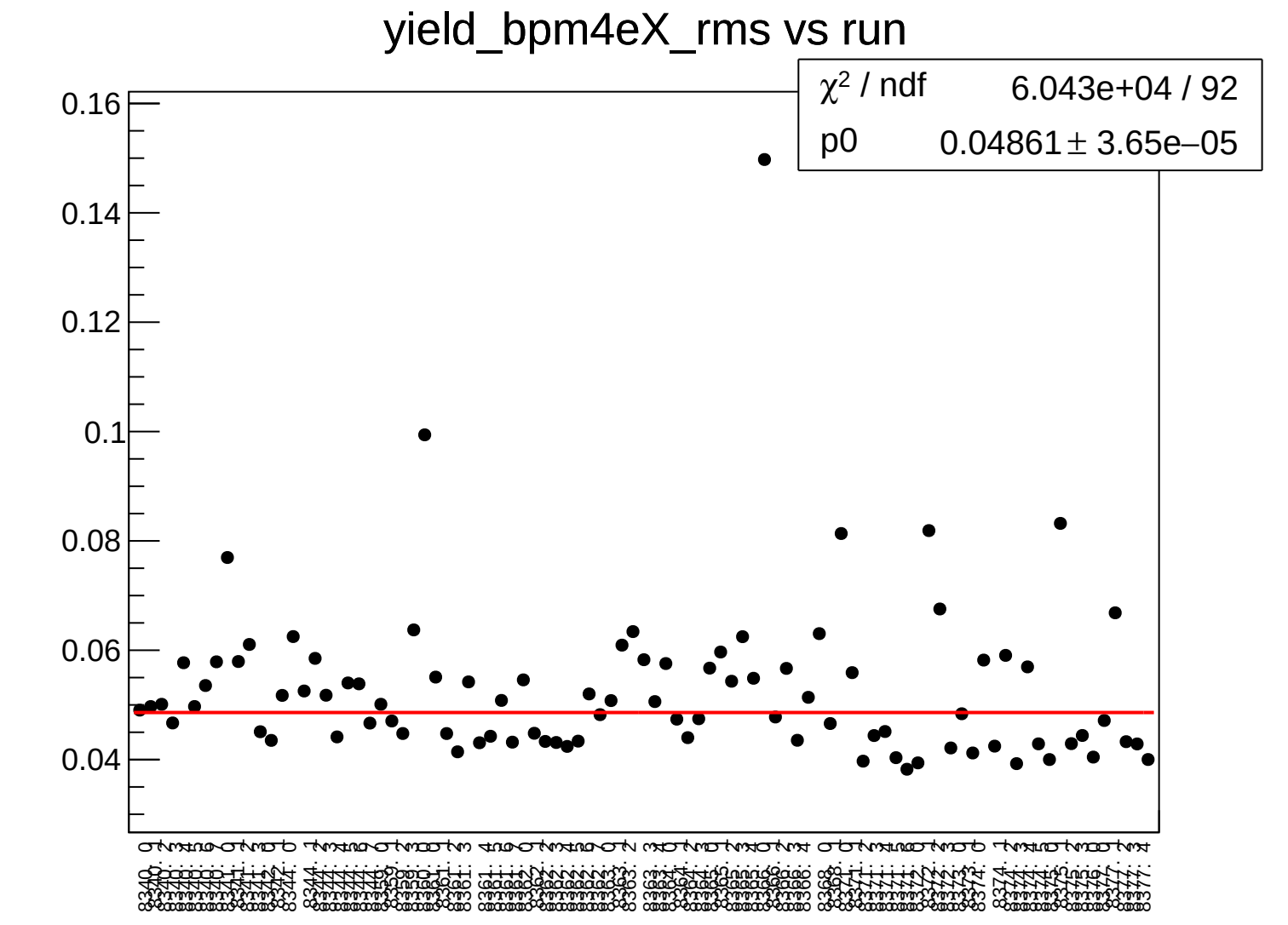

yield_bpm4aX_rms vs run
χ² / ndf 5.564e+04 / 92
p0 0.05269 ± 3.952e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

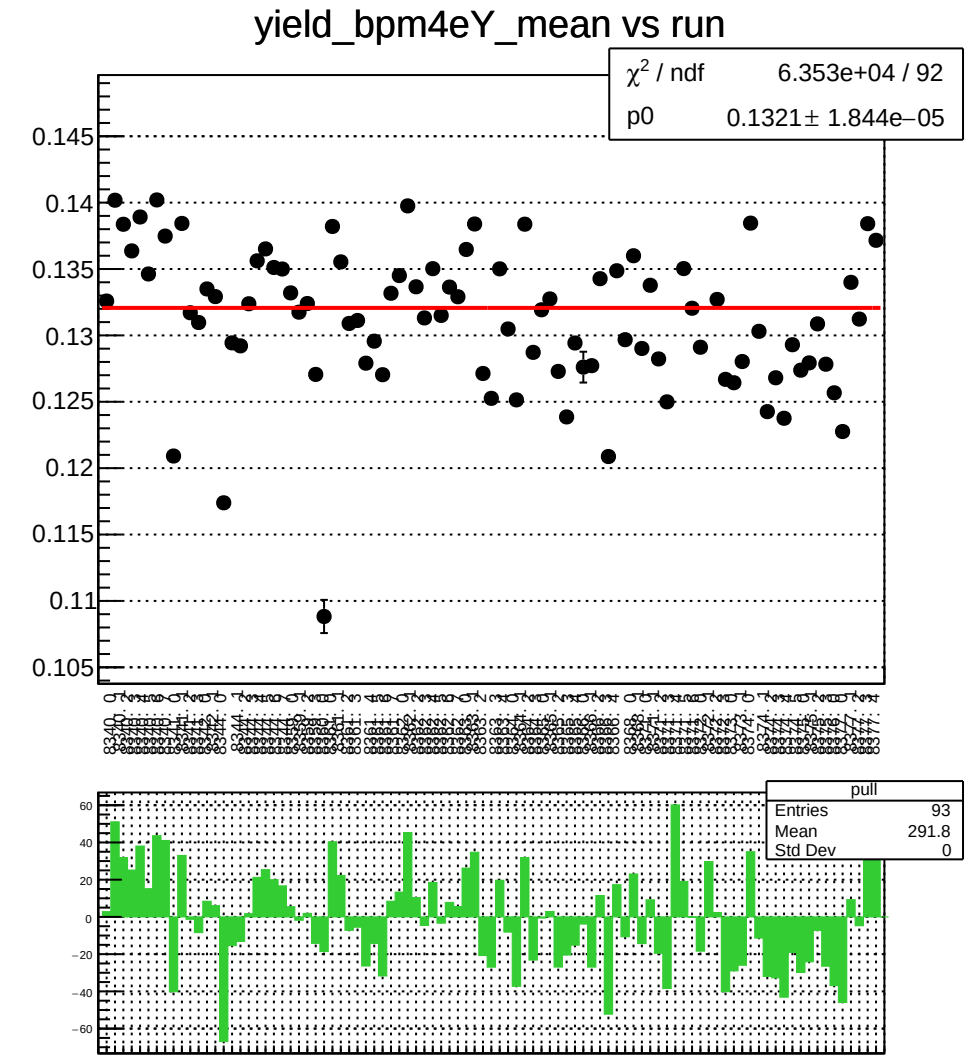

yield_bpm4aY_mean vs run
χ² / ndf 5.516e+04 / 92
p0 0.3552 ± 1.913e−05
pull
Entries 93
Mean 172
Std Dev 0
pull1D
Entries 93
Mean −0.9909
Std Dev 4.328

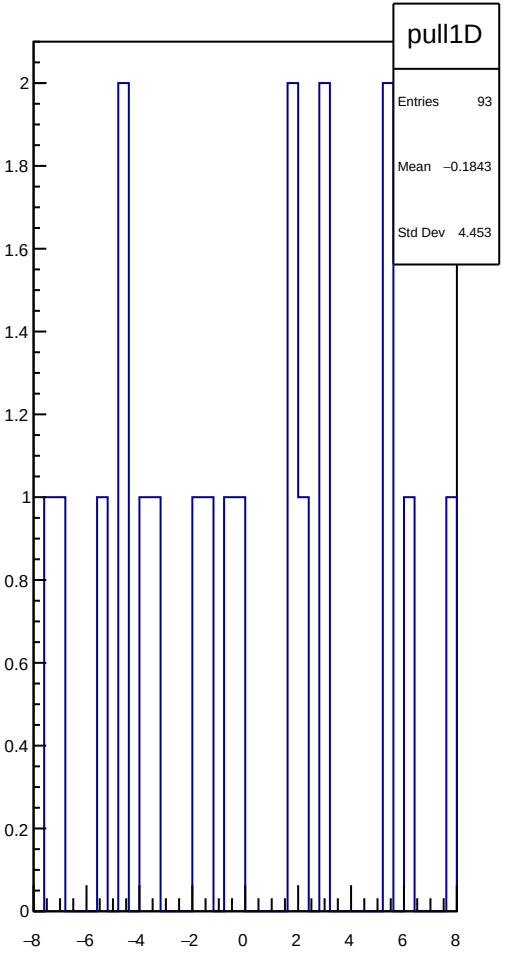

yield_bpm4aY_rms vs run
χ² / ndf 7.83e+04 / 92
p0 0.01792 ± 1.353e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02


yield_bpm4eX_mean vs run
χ² / ndf 7.473e+04 / 92
p0 −0.4437 ± 5.163e−05
pull
Entries 93
Mean −3.053
Std Dev 0

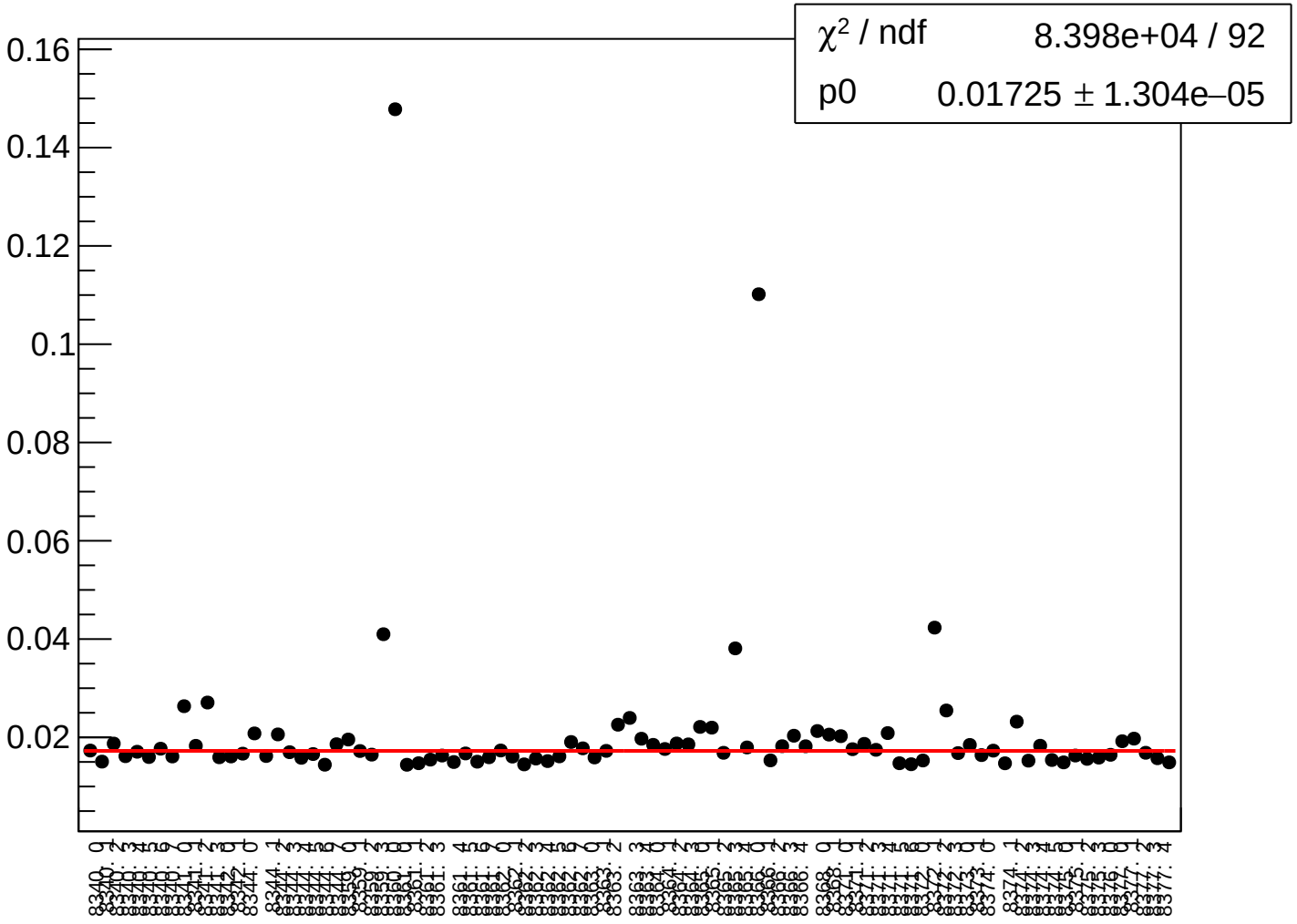

pull1D
Entries 93
Mean 0.2051
Std Dev 3.85

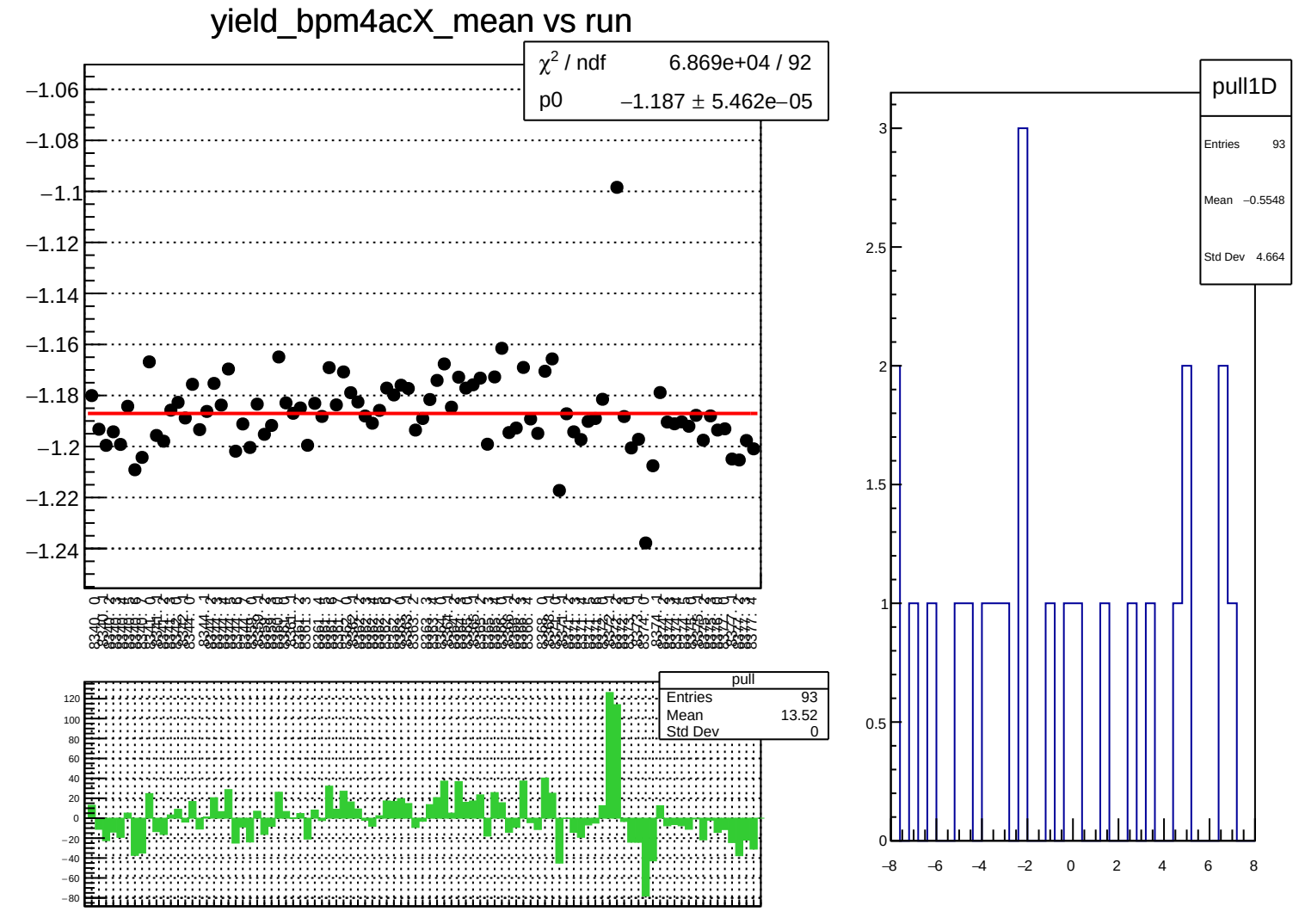

yield_bpm4eX_rms vs run
χ² / ndf 6.043e+04 / 92
p0 0.04861 ± 3.65e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

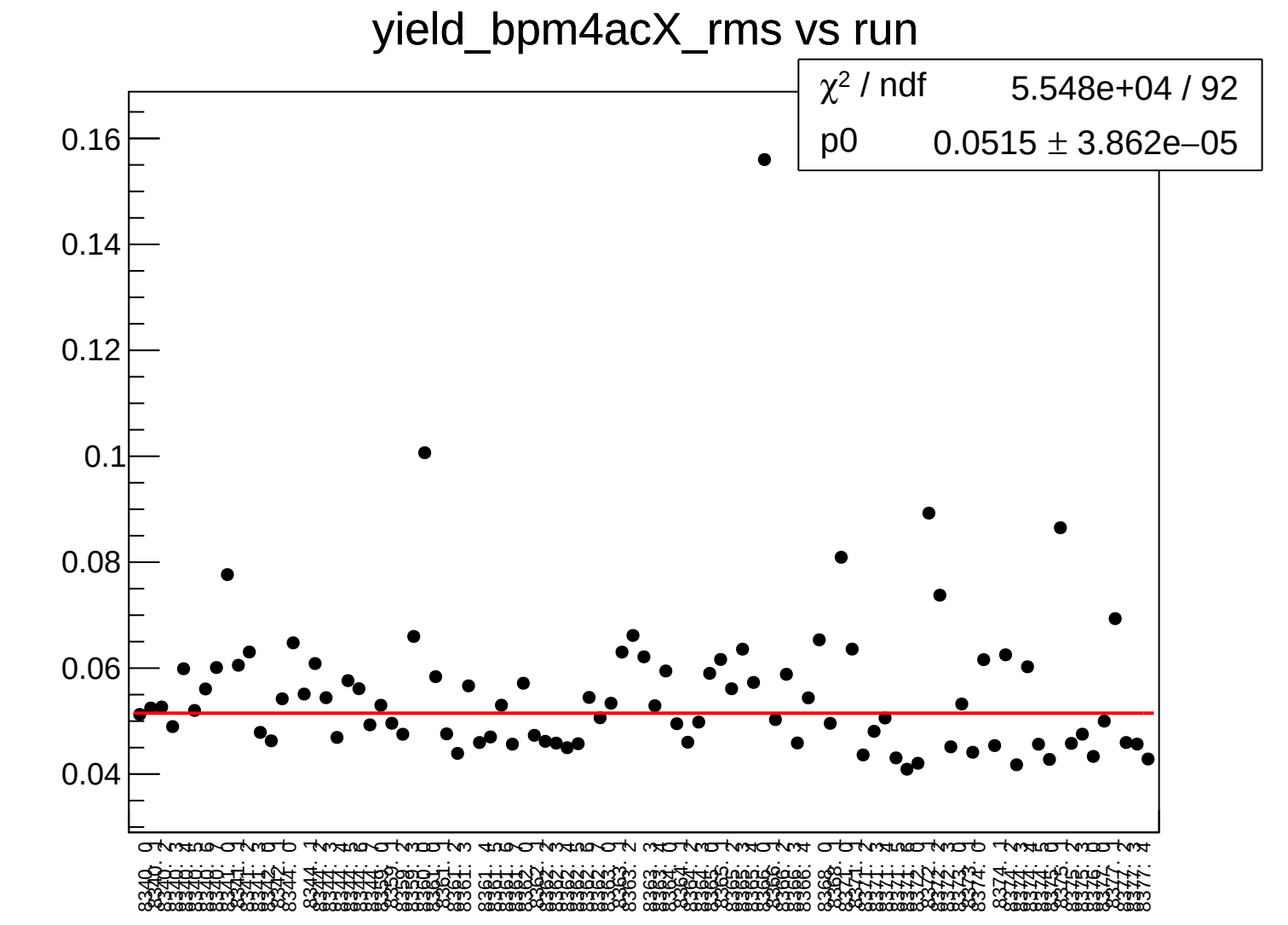

yield_bpm4eY_mean vs run
χ² / ndf 6.353e+04 / 92
p0 0.1321 ± 1.844e−05
0.145
0.14
0.135
0.13
0.125
0.12
0.115
0.11
0.105
pull
Entries 93
Mean 291.8
Std Dev 0
60
40
20
0
−20
−40
−60

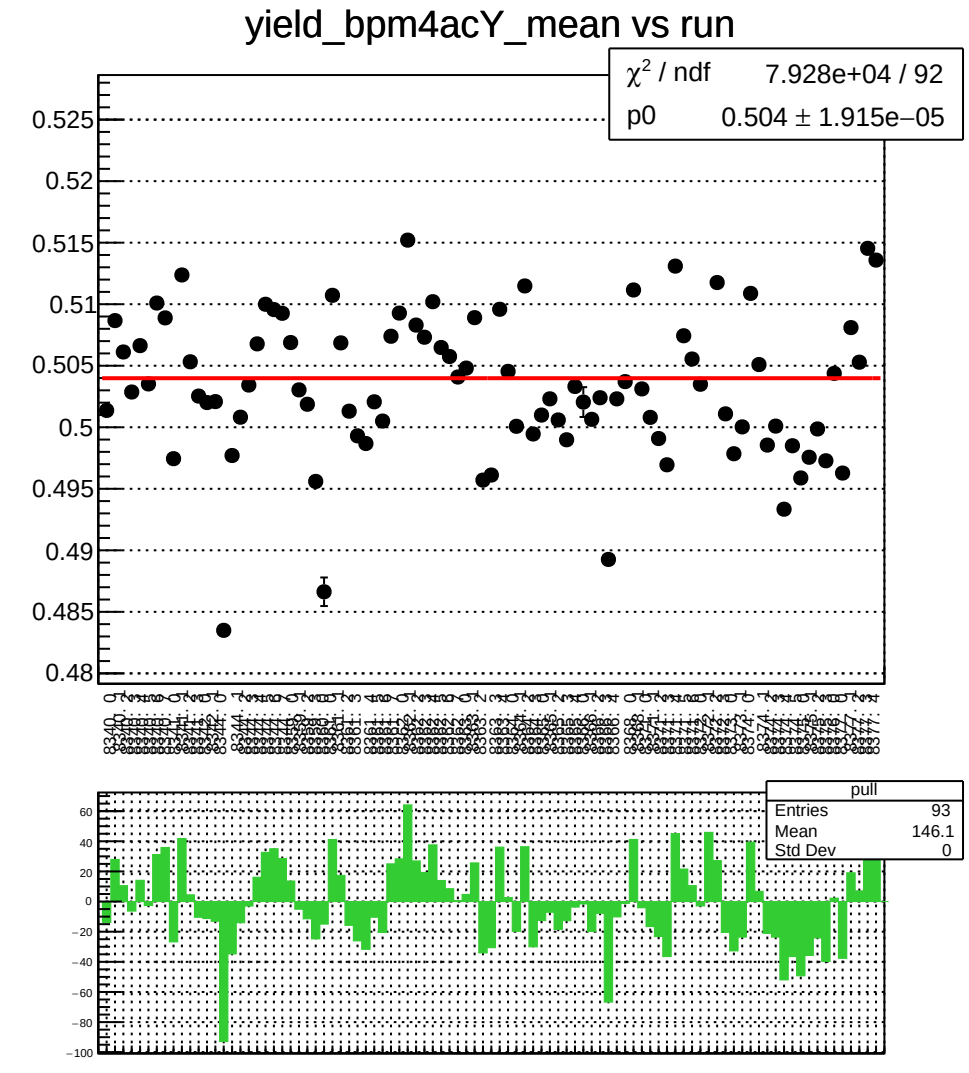

pull1D
Entries 93
Mean −0.1843
Std Dev 4.453
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

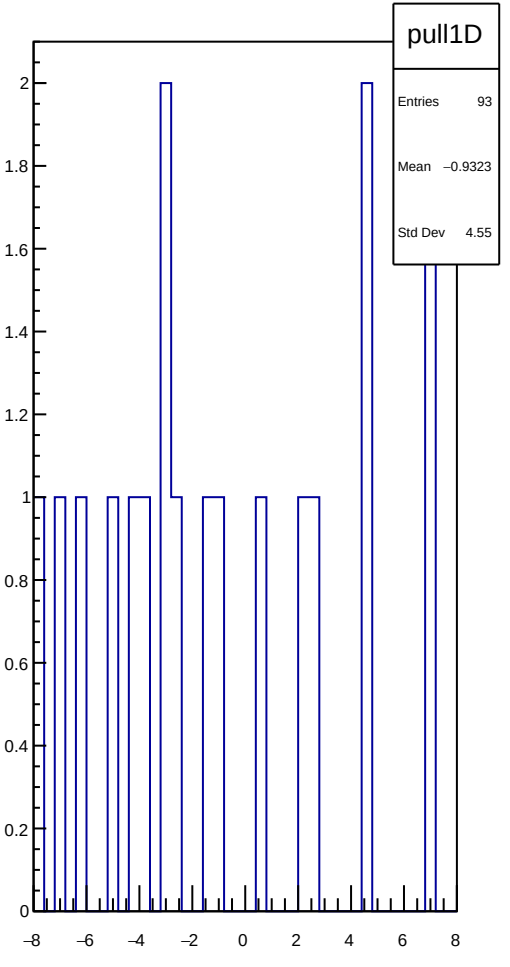
yield_bpm4eY_rms vs run

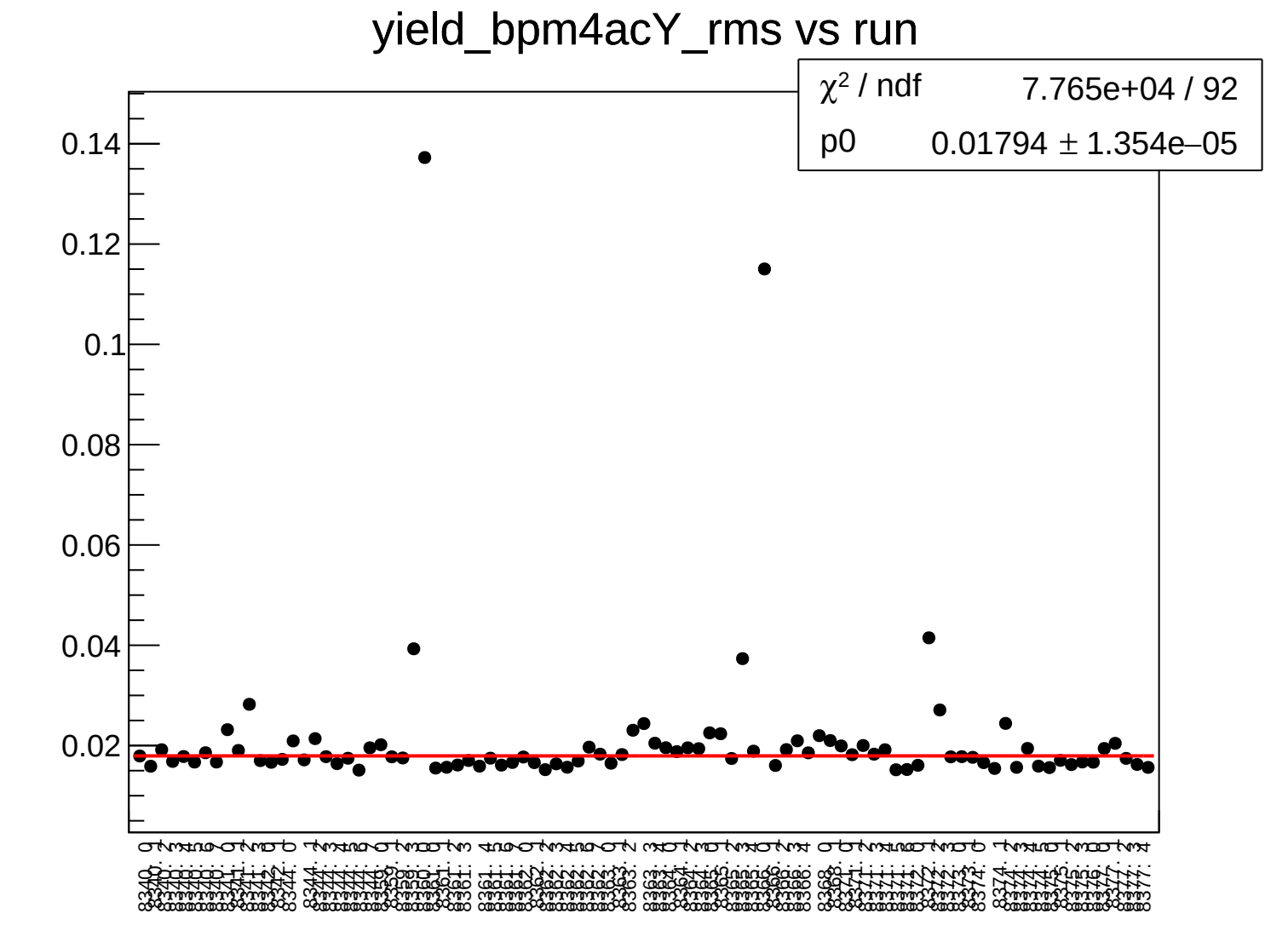


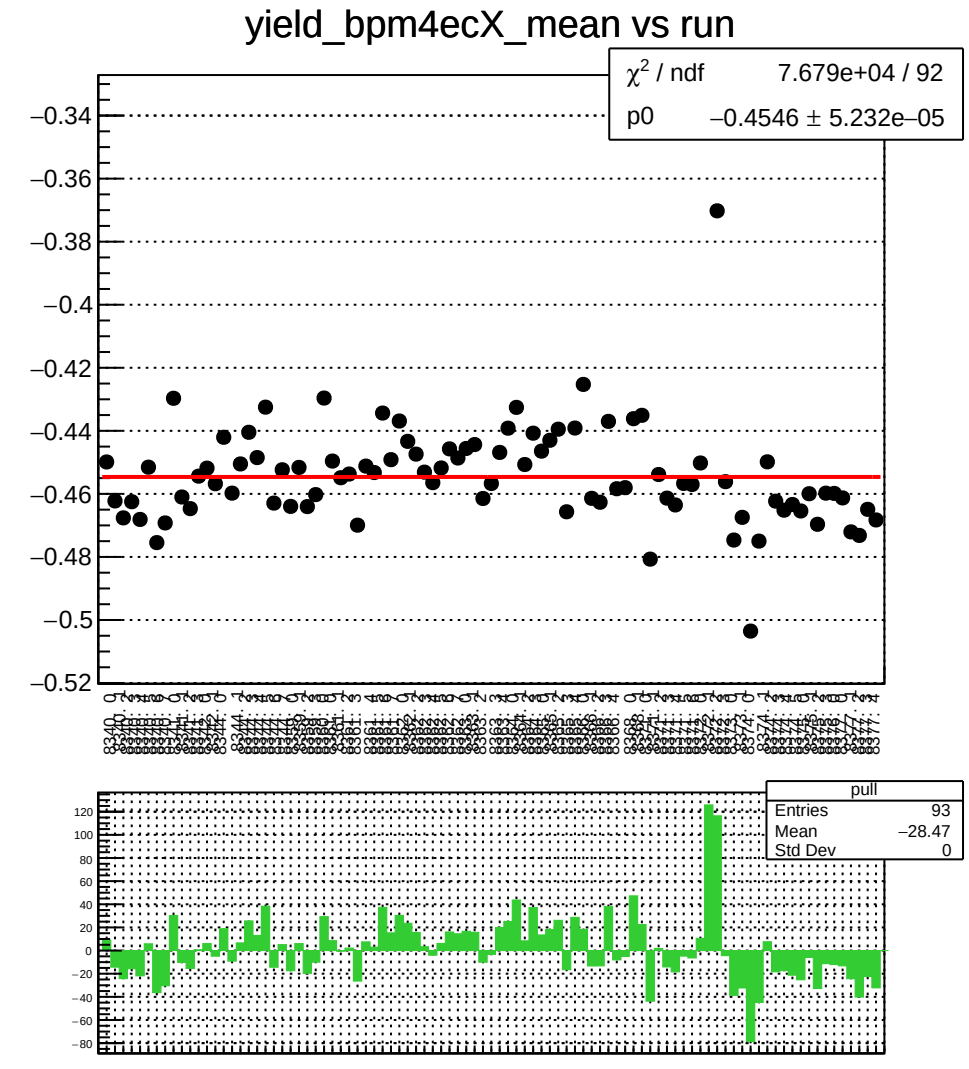

yield_bpm4acX_mean vs run
χ² / ndf 6.869e+04 / 92
p0 −1.187 ± 5.462e−05
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 93
Mean 13.52
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 93
Mean −0.5548
Std Dev 4.664
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

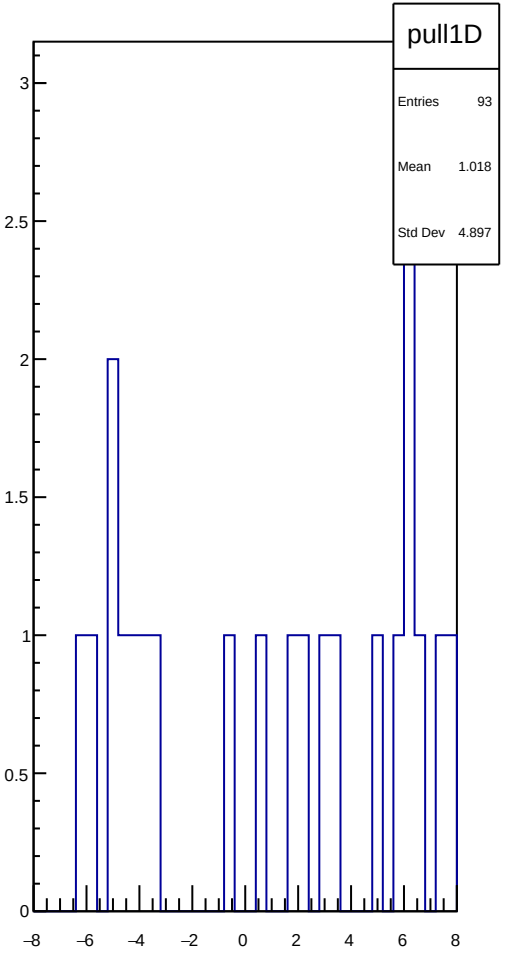

yield_bpm4acX_rms vs run
χ² / ndf 5.548e+04 / 92
p0 0.0515 ± 3.862e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

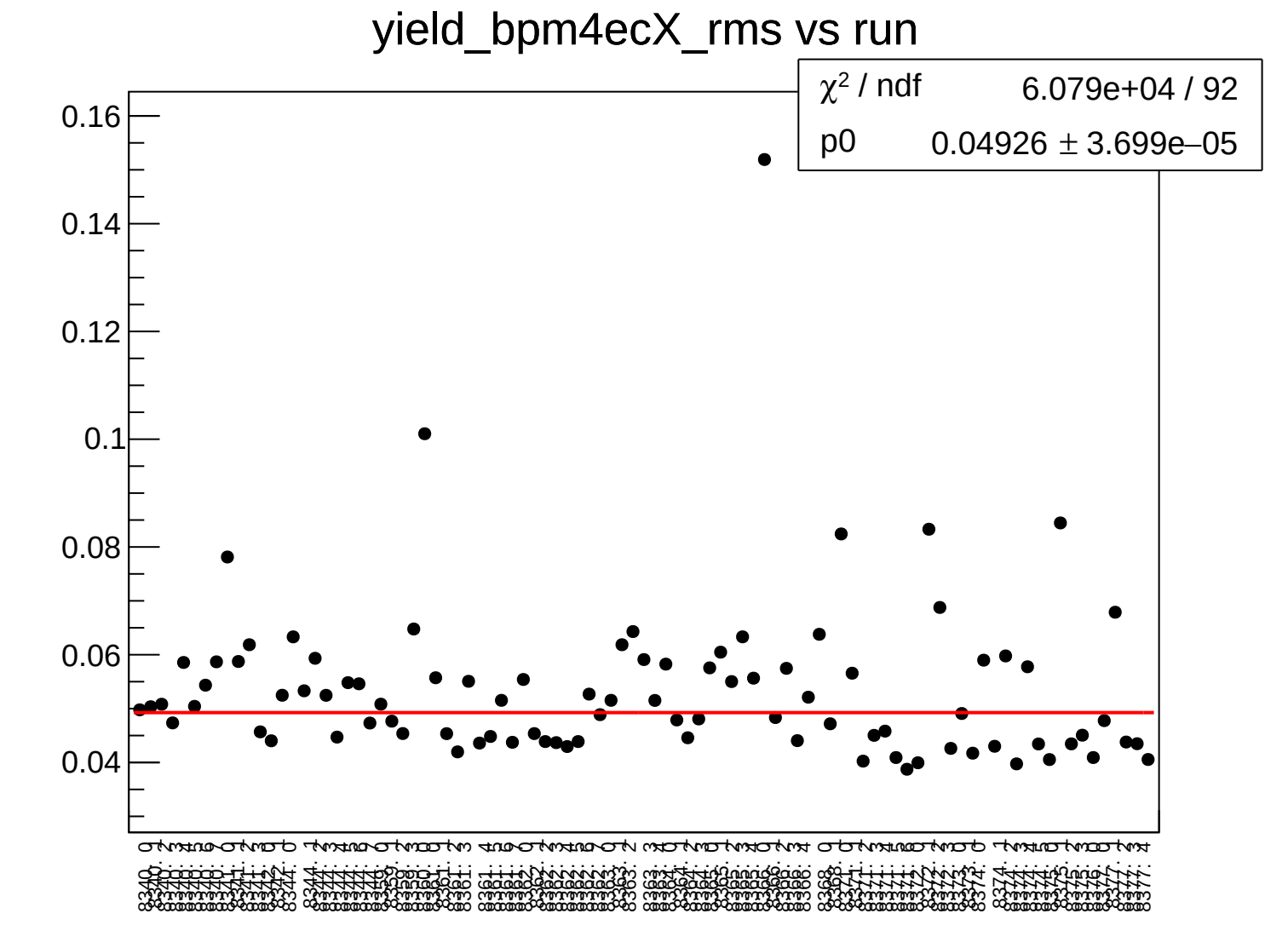

yield_bpm4acY_mean vs run
χ² / ndf 7.928e+04 / 92
p0 0.504 ± 1.915e−05
0.525
0.52
0.515
0.51
0.505
0.5
0.495
0.49
0.485
0.48
pull
Entries 93
Mean 146.1
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

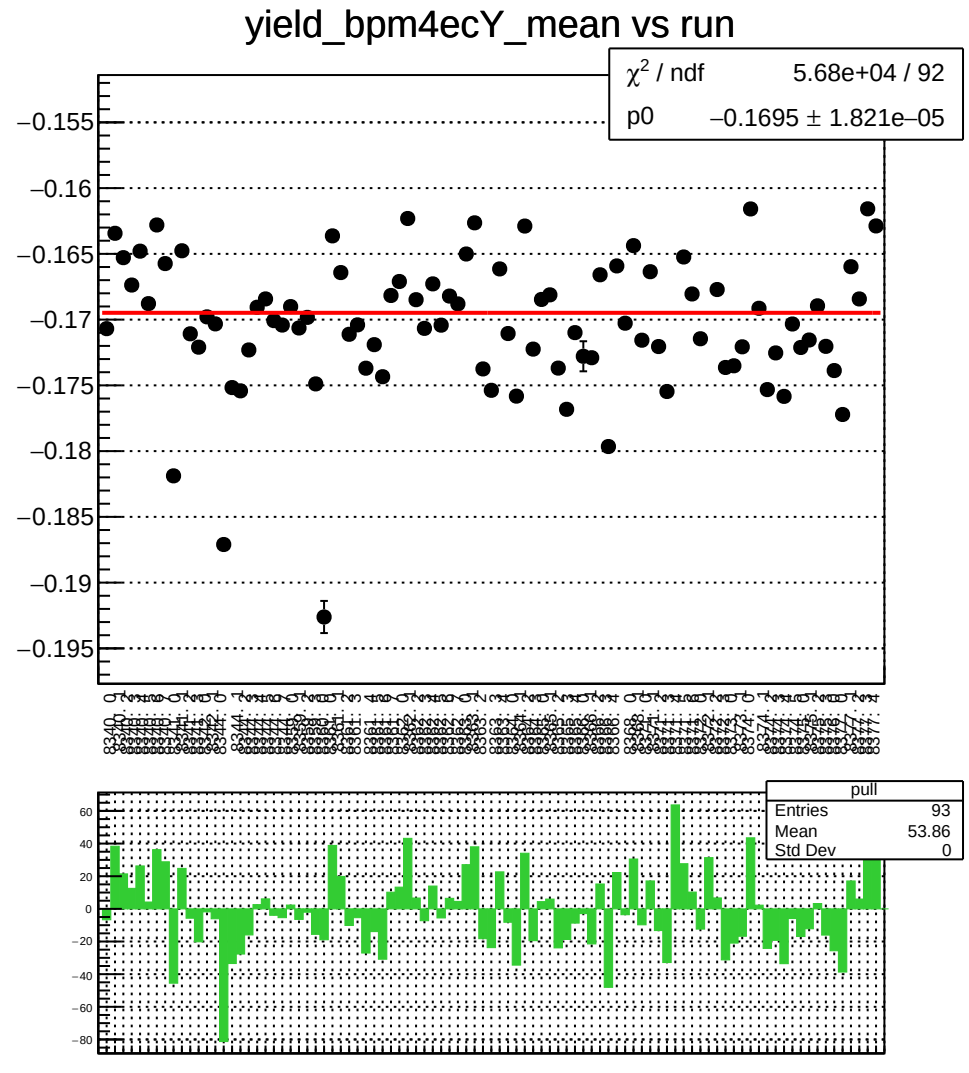

pull1D
Entries 93
Mean −0.9323
Std Dev 4.55
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

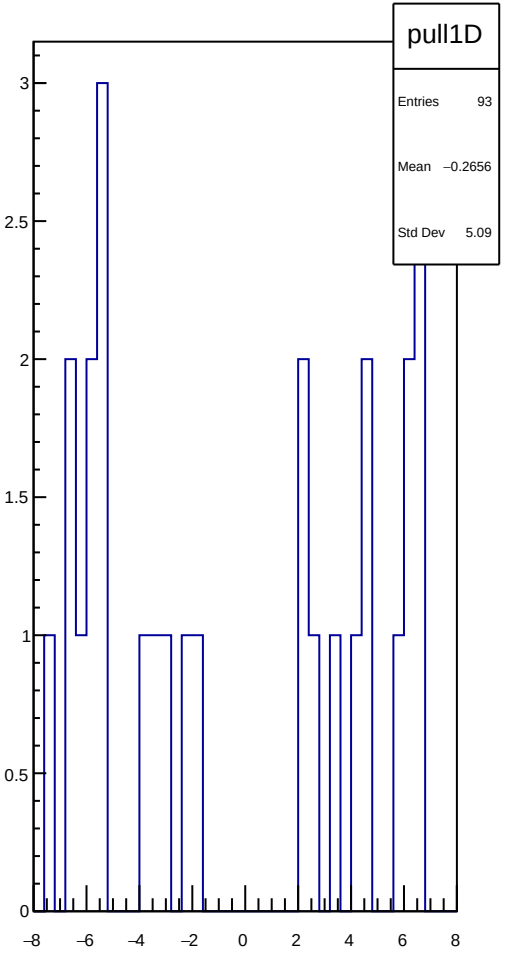

yield_bpm4acY_rms vs run
χ² / ndf 7.765e+04 / 92
p0 0.01794 ± 1.354e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

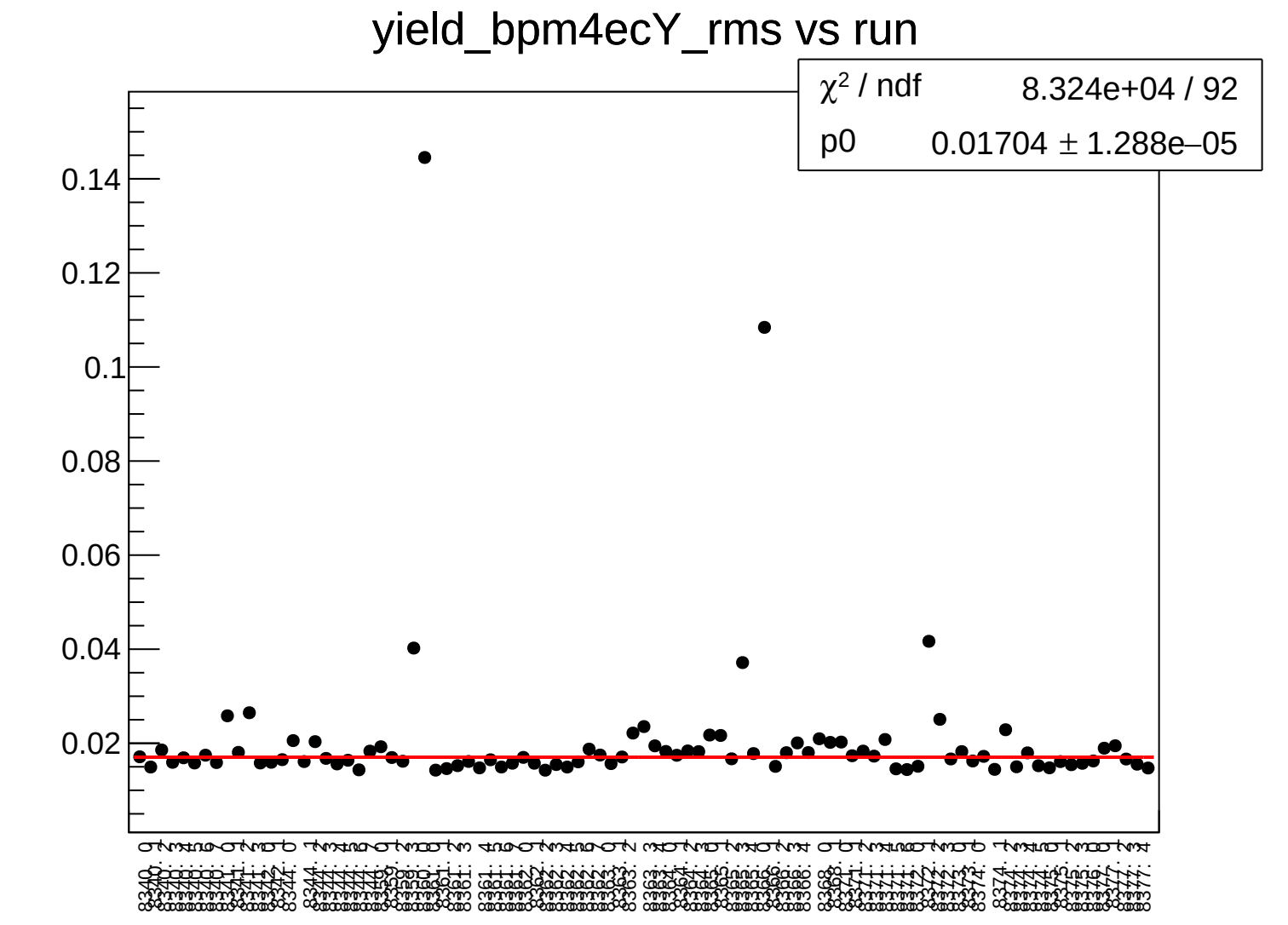

yield_bpm4ecX_mean vs run
χ² / ndf 7.679e+04 / 92
p0 −0.4546 ± 5.232e−05
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 93
Mean −28.47
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

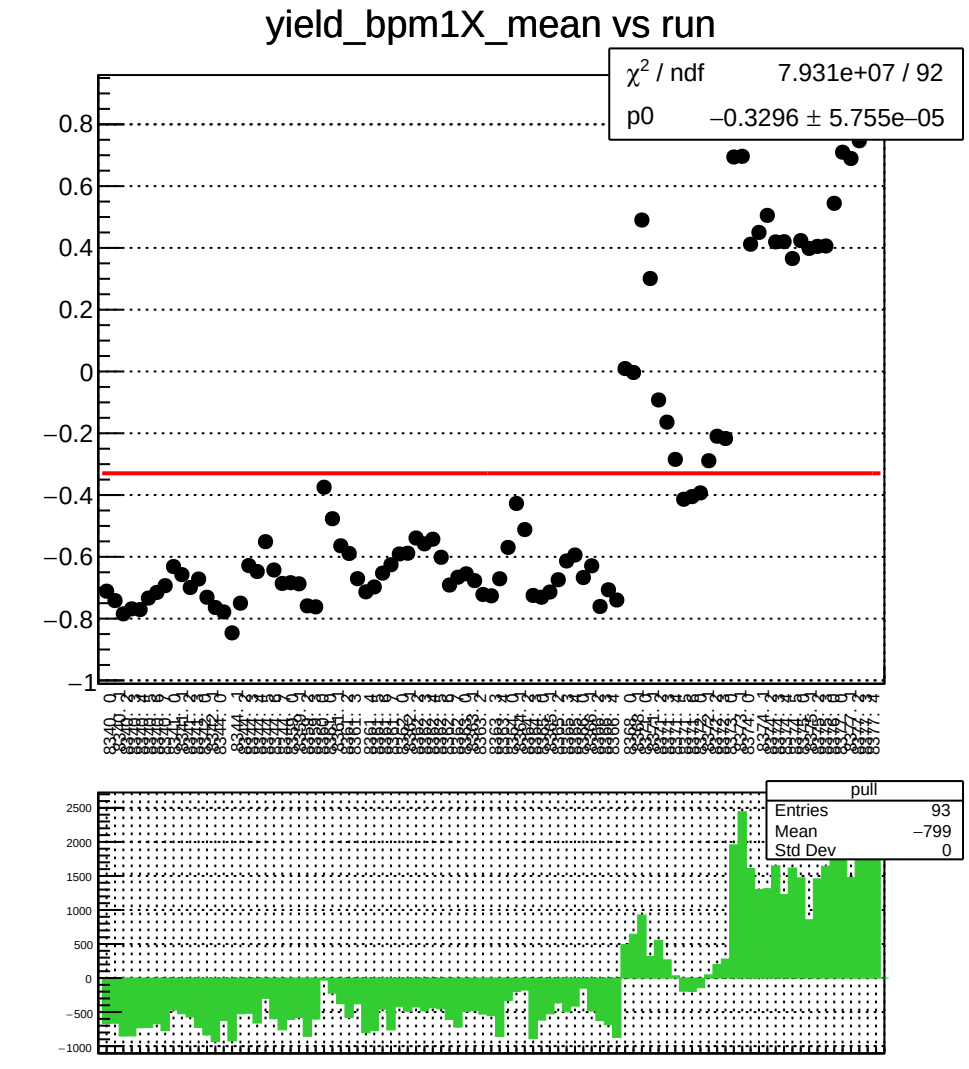

pull1D
Entries 93
Mean 1.018
Std Dev 4.897
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

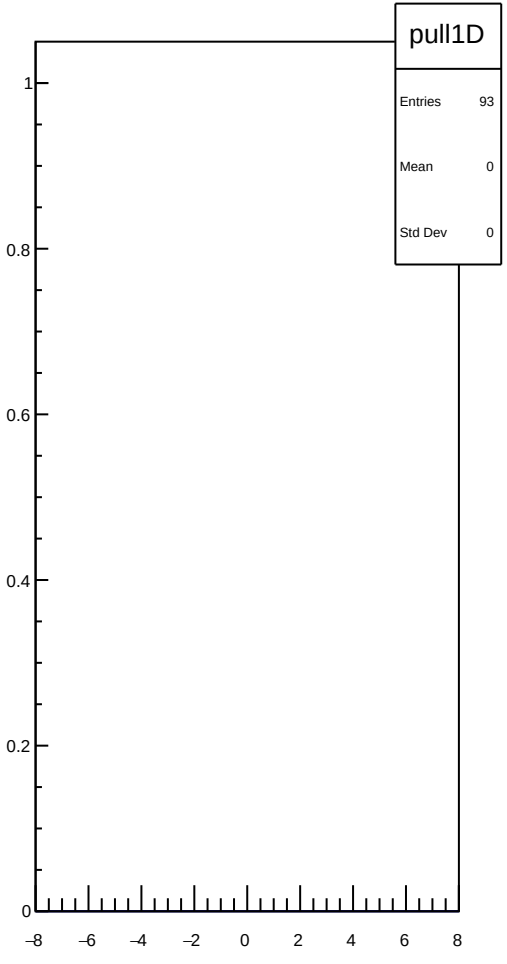

yield_bpm4ecX_rms vs run
χ² / ndf 6.079e+04 / 92
p0 0.04926 ± 3.699e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

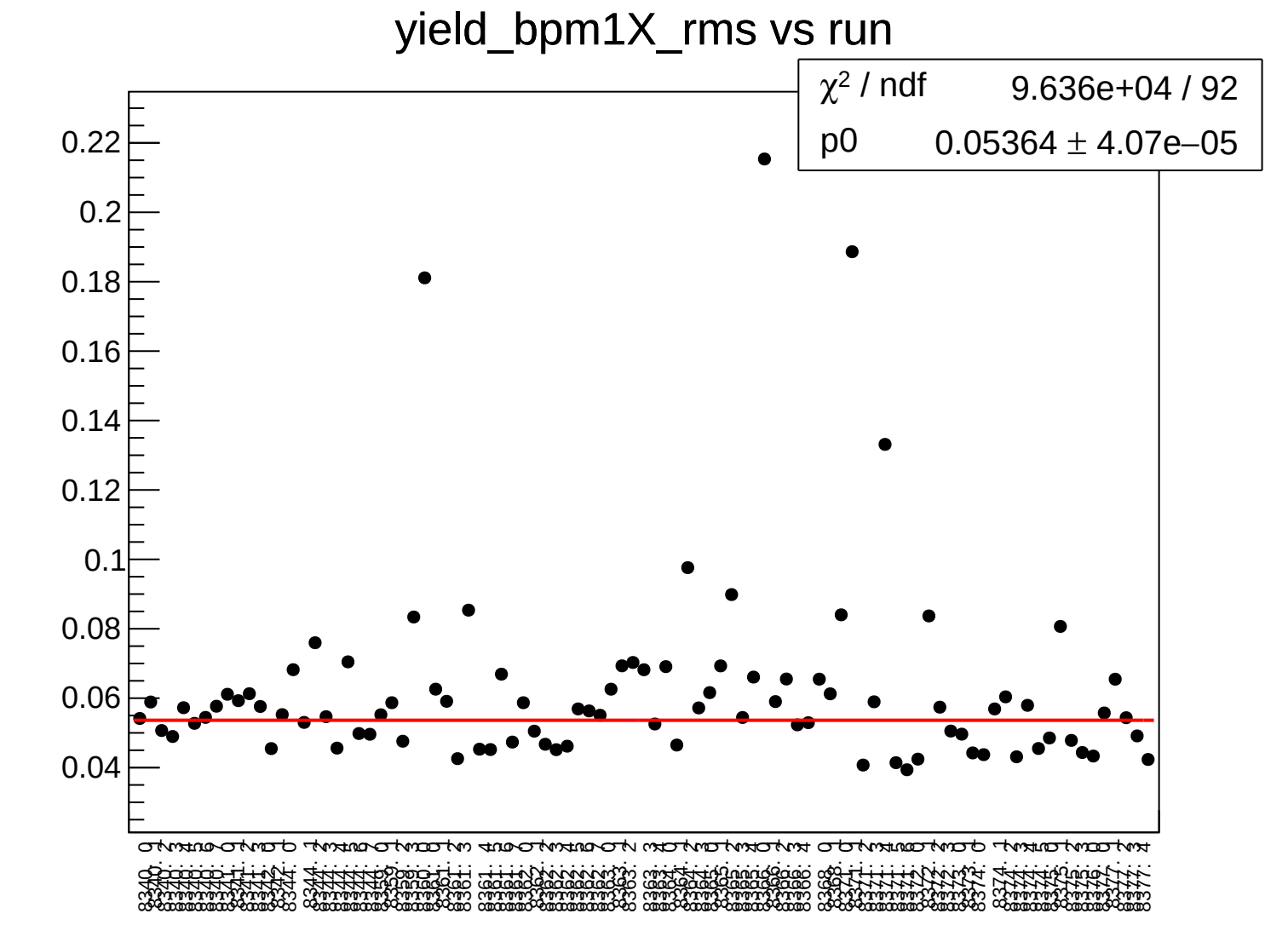

yield_bpm4ecY_mean vs run
χ² / ndf 5.68e+04 / 92
p0 −0.1695 ± 1.821e−05
−0.155
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
pull
Entries 93
Mean 53.86
Std Dev 0
60
40
20
0
−20
−40
−60
−80

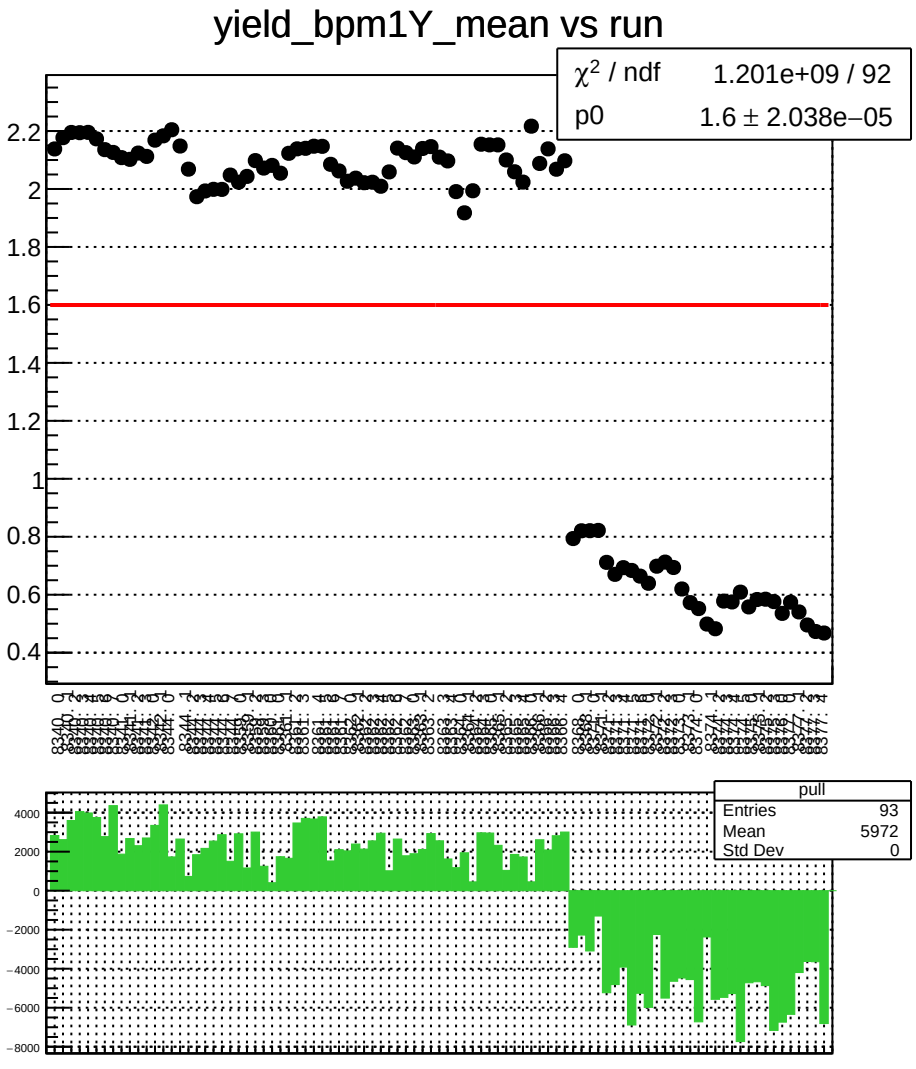

pull1D
Entries 93
Mean −0.2656
Std Dev 5.09
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

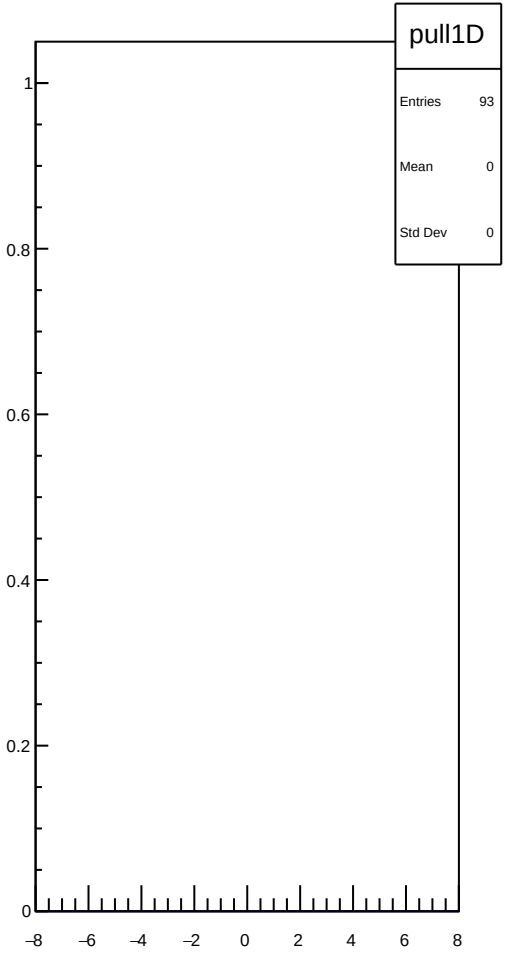

yield_bpm4ecY_rms vs run
χ² / ndf 8.324e+04 / 92
p0 0.01704 ± 1.288e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

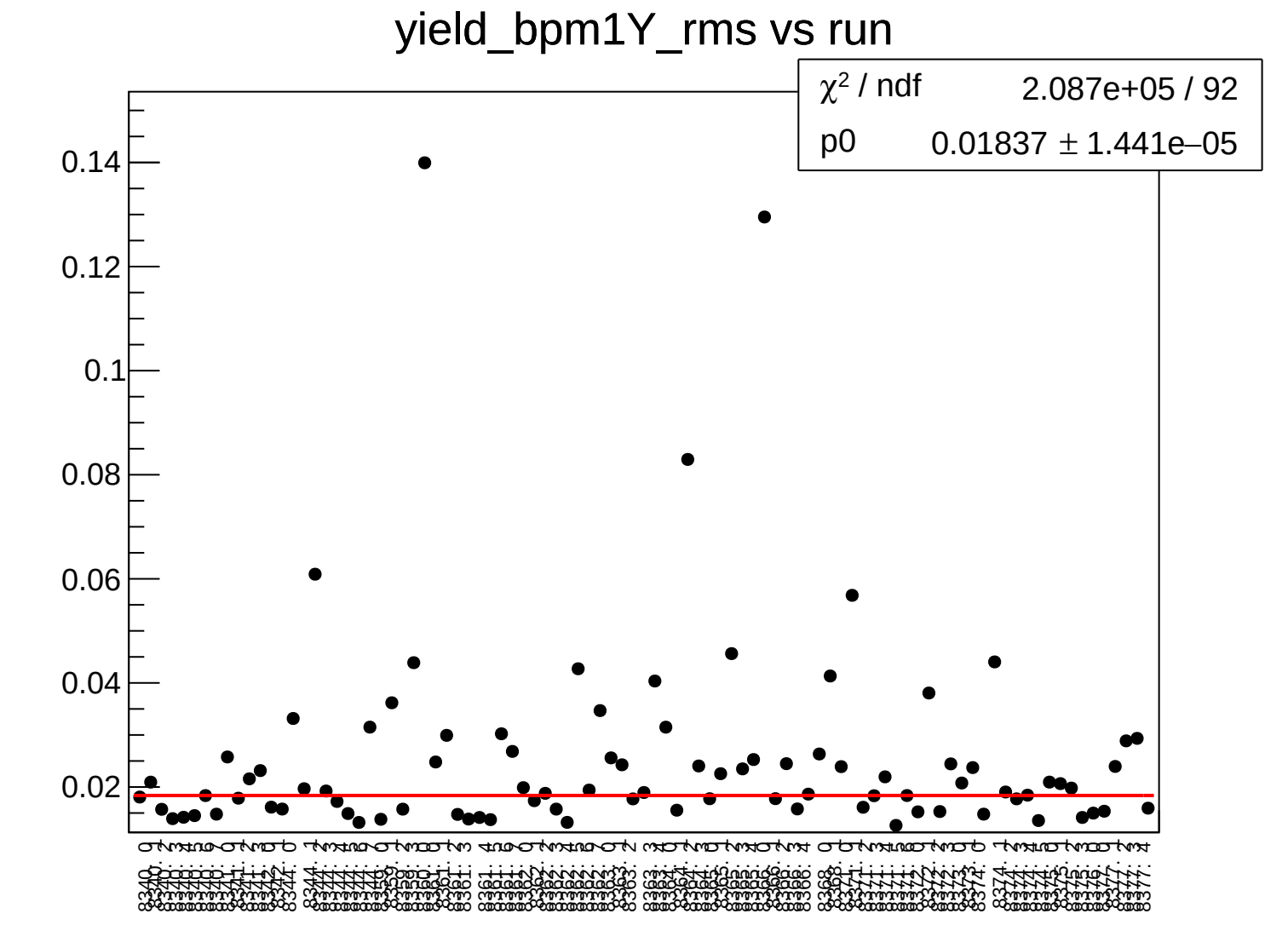

yield_bpm1X_mean vs run
χ² / ndf 7.931e+07 / 92
p0 −0.3296 ± 5.755e−05
pull
Entries 93
Mean −799
Std Dev 0

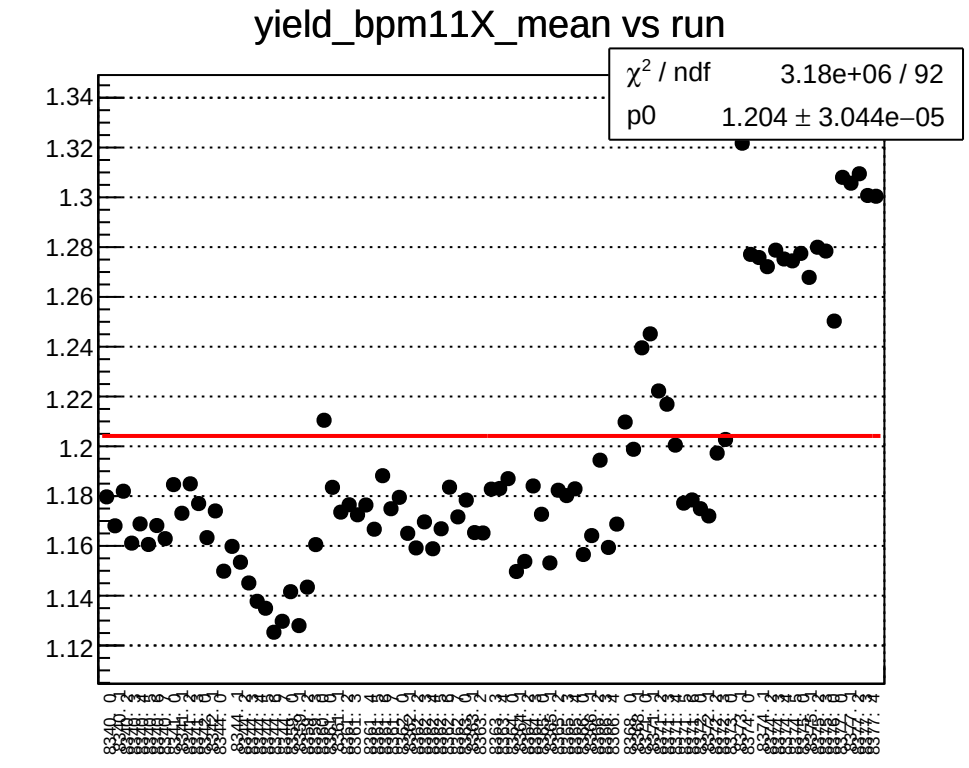

pull1D
Entries 93
Mean 0
Std Dev 0

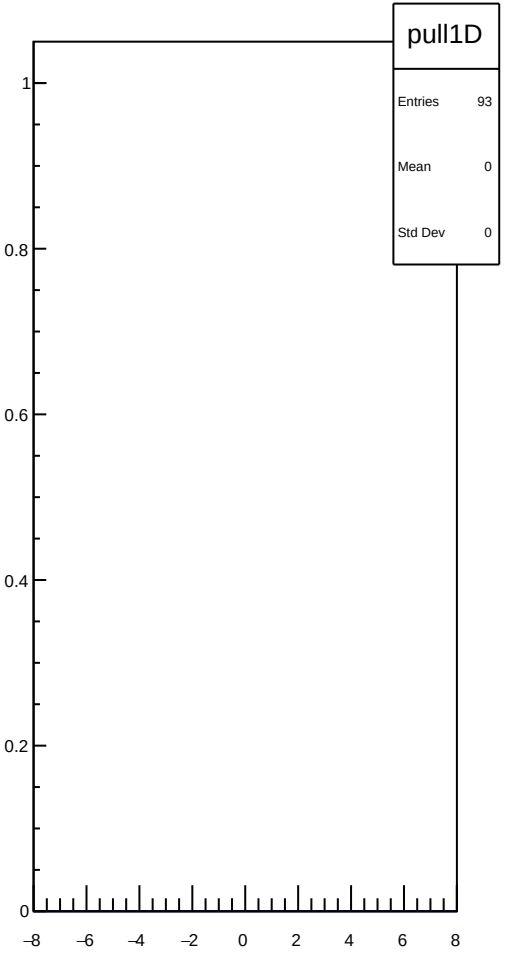

yield_bpm1X_rms vs run
χ² / ndf 9.636e+04 / 92
p0 0.05364 ± 4.07e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

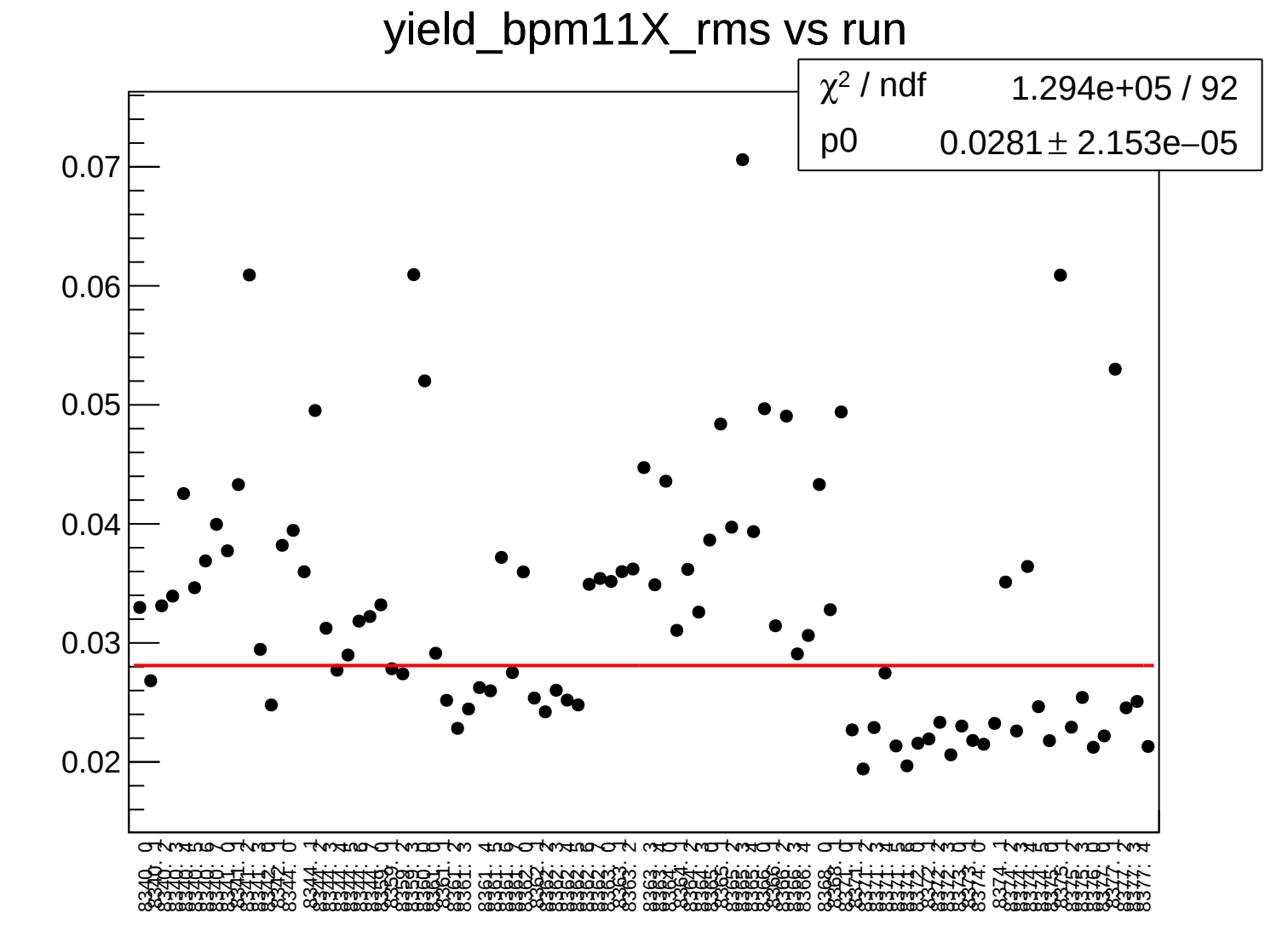

yield_bpm1Y_mean vs run
χ² / ndf 1.201e+09 / 92
p0 1.6 ± 2.038e−05
pull
Entries 93
Mean 5972
Std Dev 0

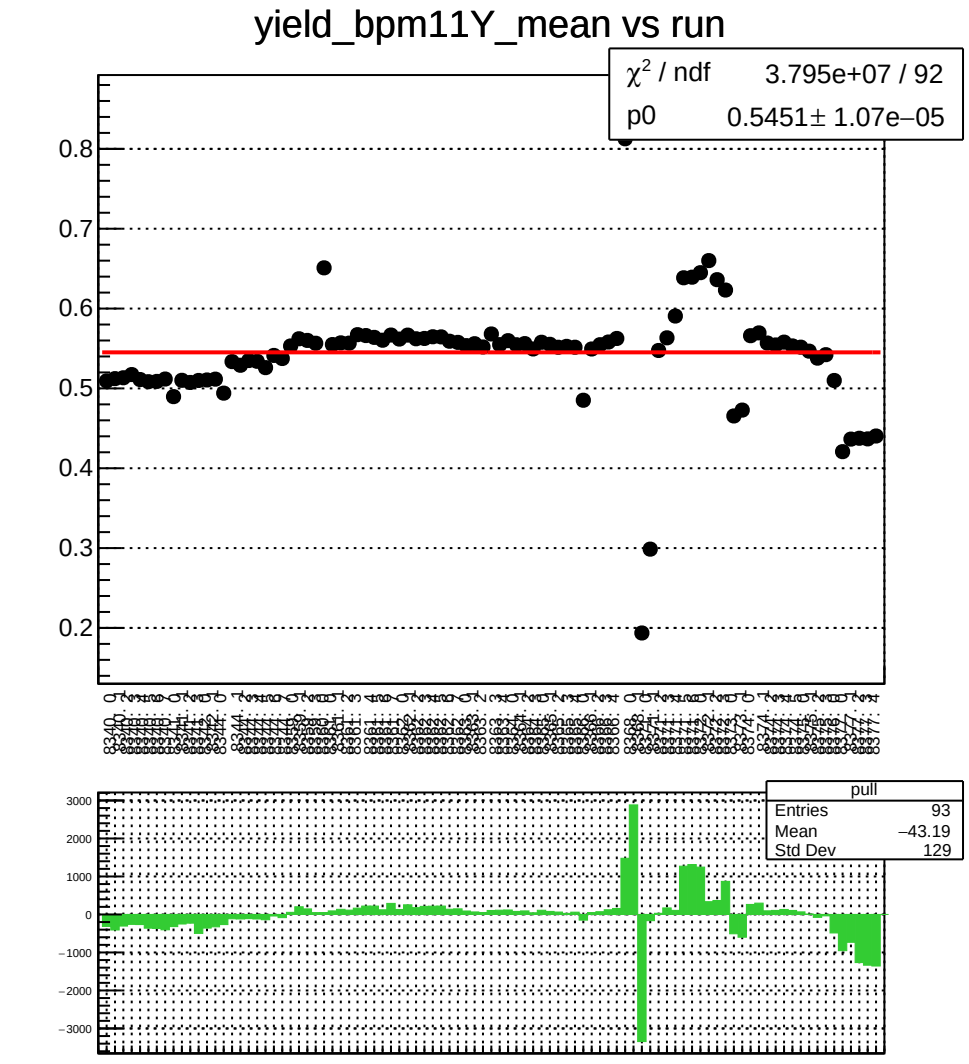

pull1D
Entries 93
Mean 0
Std Dev 0

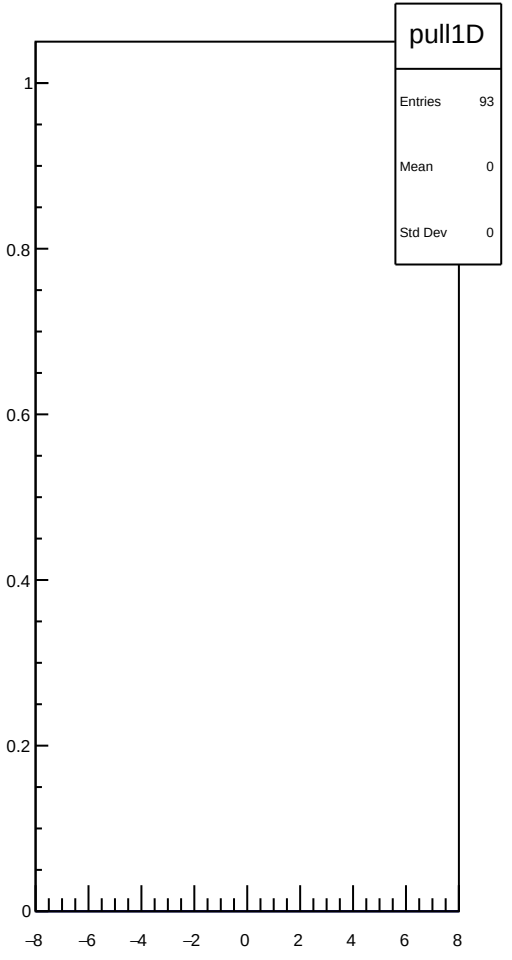

yield_bpm1Y_rms vs run
χ² / ndf 2.087e+05 / 92
p0 0.01837 ± 1.441e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

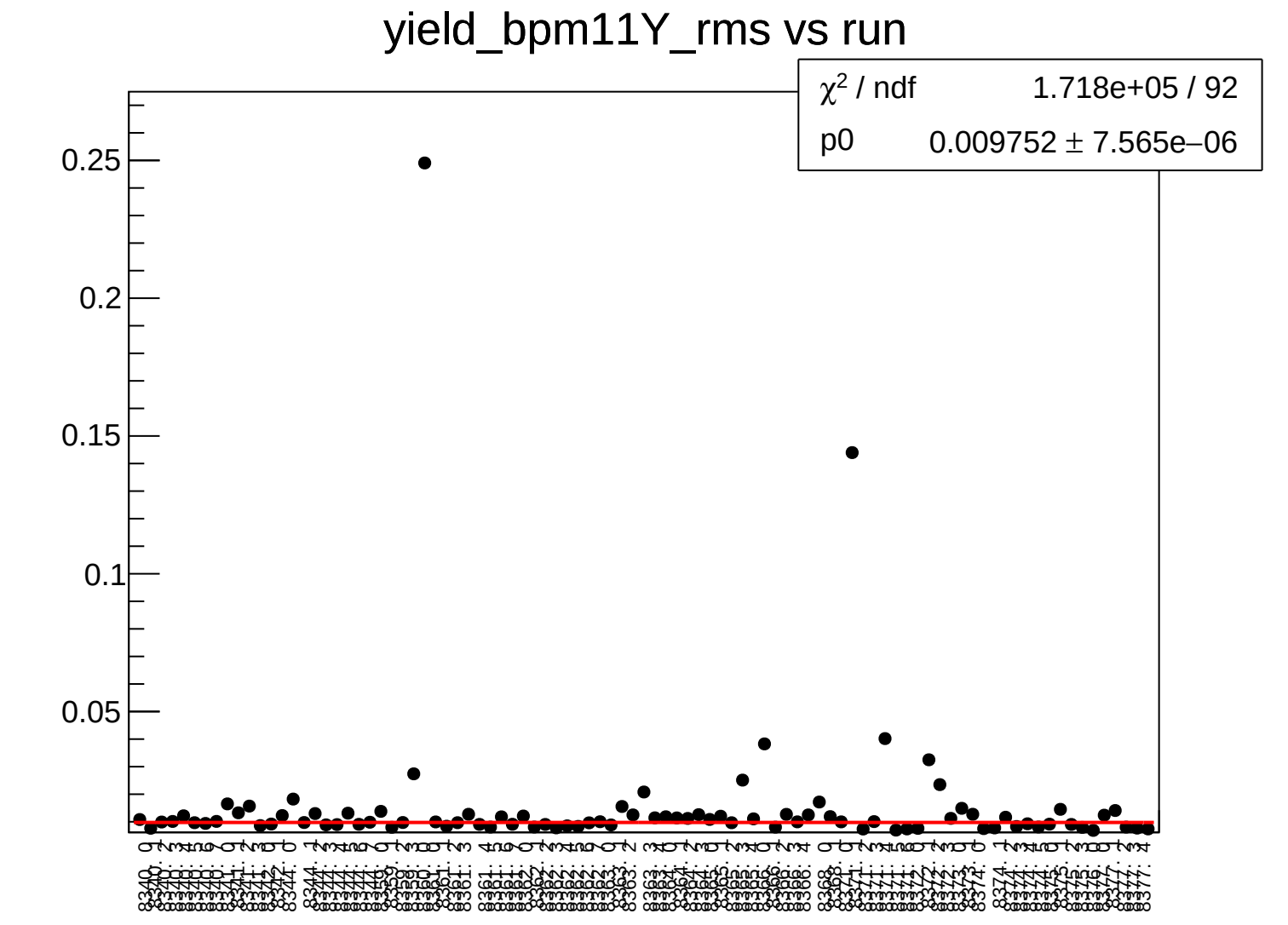

yield_bpm11X_mean vs run
χ² / ndf 3.18e+06 / 92
p0 1.204 ± 3.044e−05
1.34
1.32
1.3
1.28
1.26
1.24
1.22
1.2
1.18
1.16
1.14
1.12
pull
Entries 93
Mean −186.2
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300

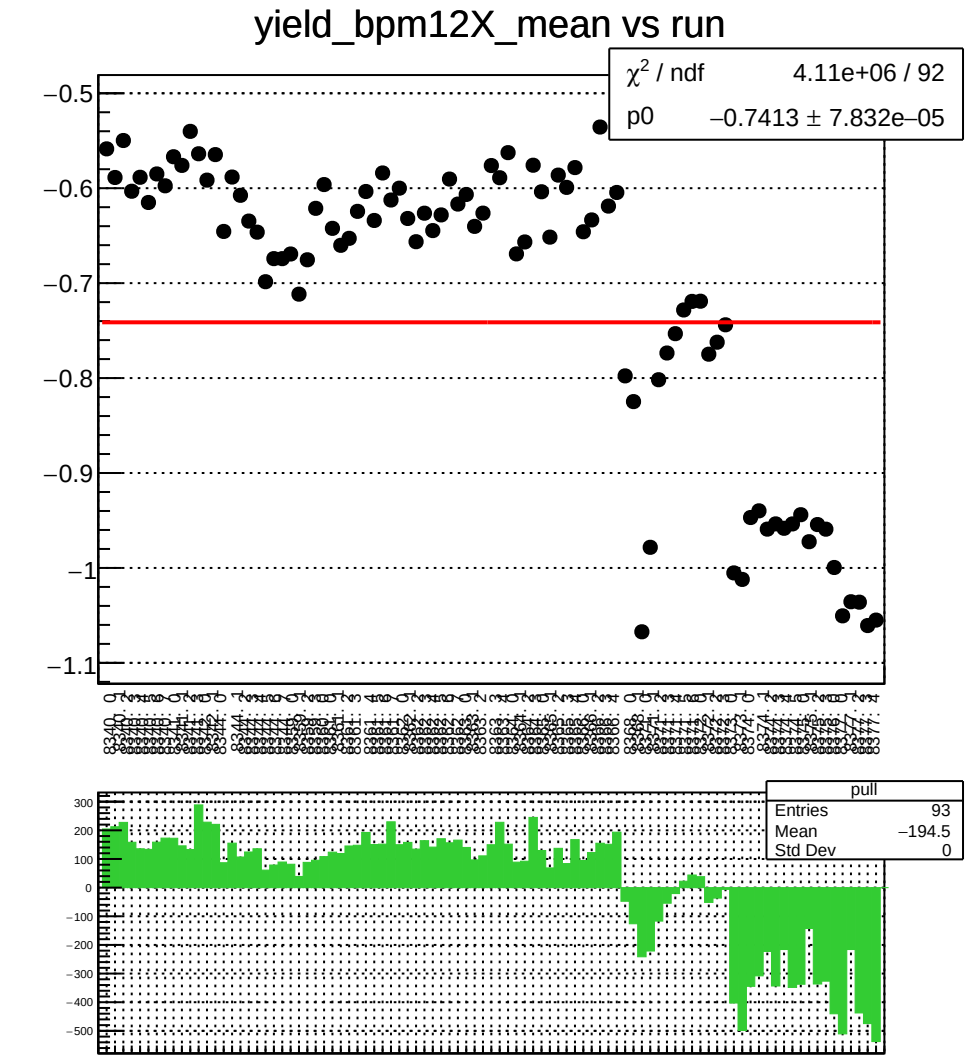

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

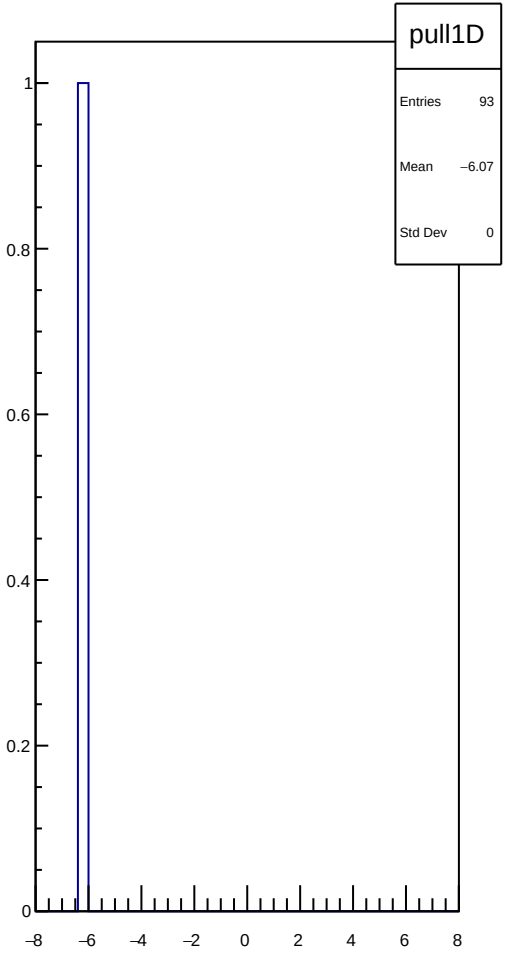

yield_bpm11X_rms vs run
χ² / ndf 1.294e+05 / 92
p0 0.0281 ± 2.153e−05
0.07
0.06
0.05
0.04
0.03
0.02

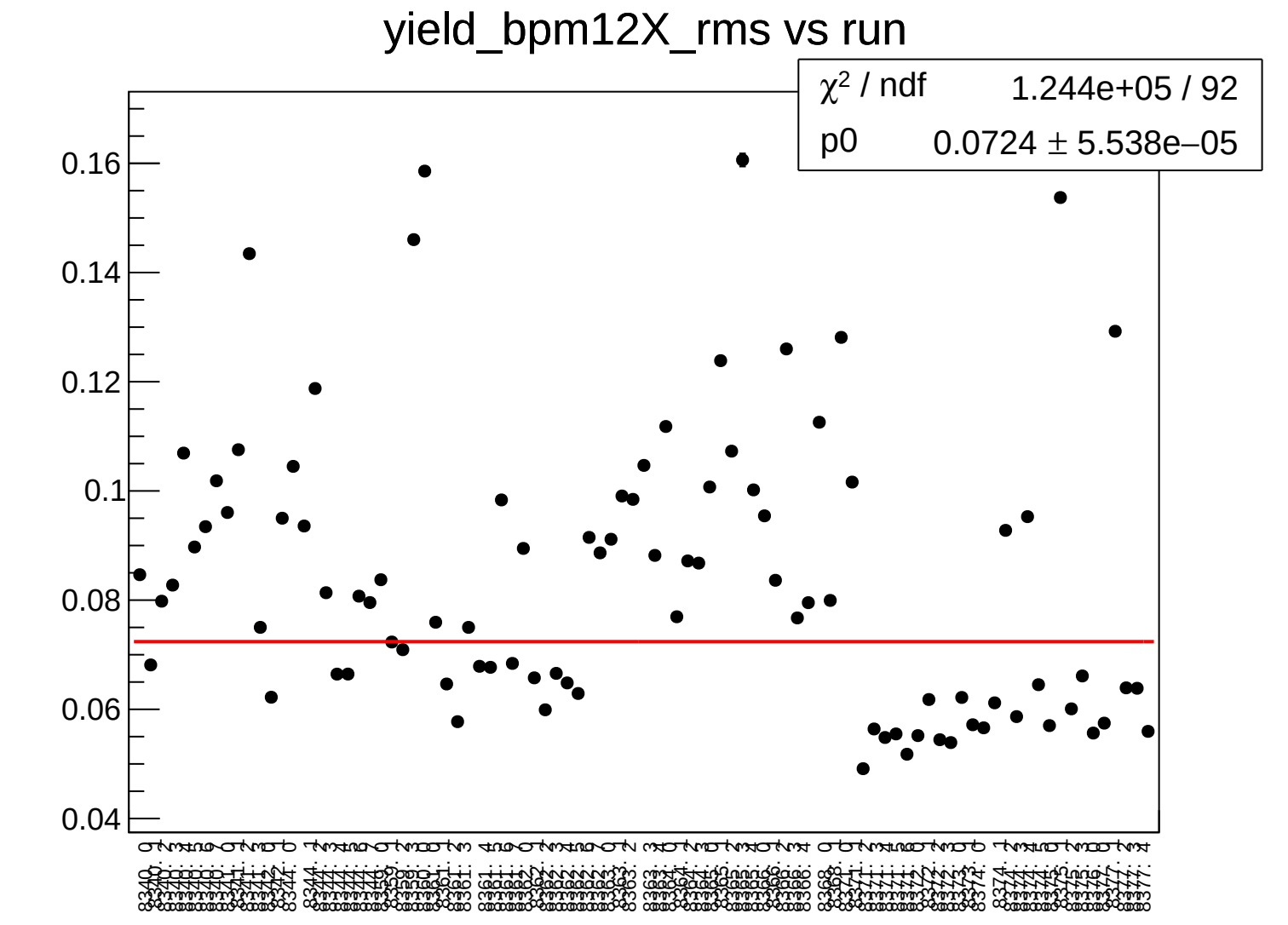

yield_bpm11Y_mean vs run
χ² / ndf 3.795e+07 / 92
p0 0.5451± 1.07e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 93
Mean –43.19
Std Dev 129
3000
2000
1000
0
–1000
–2000
–3000

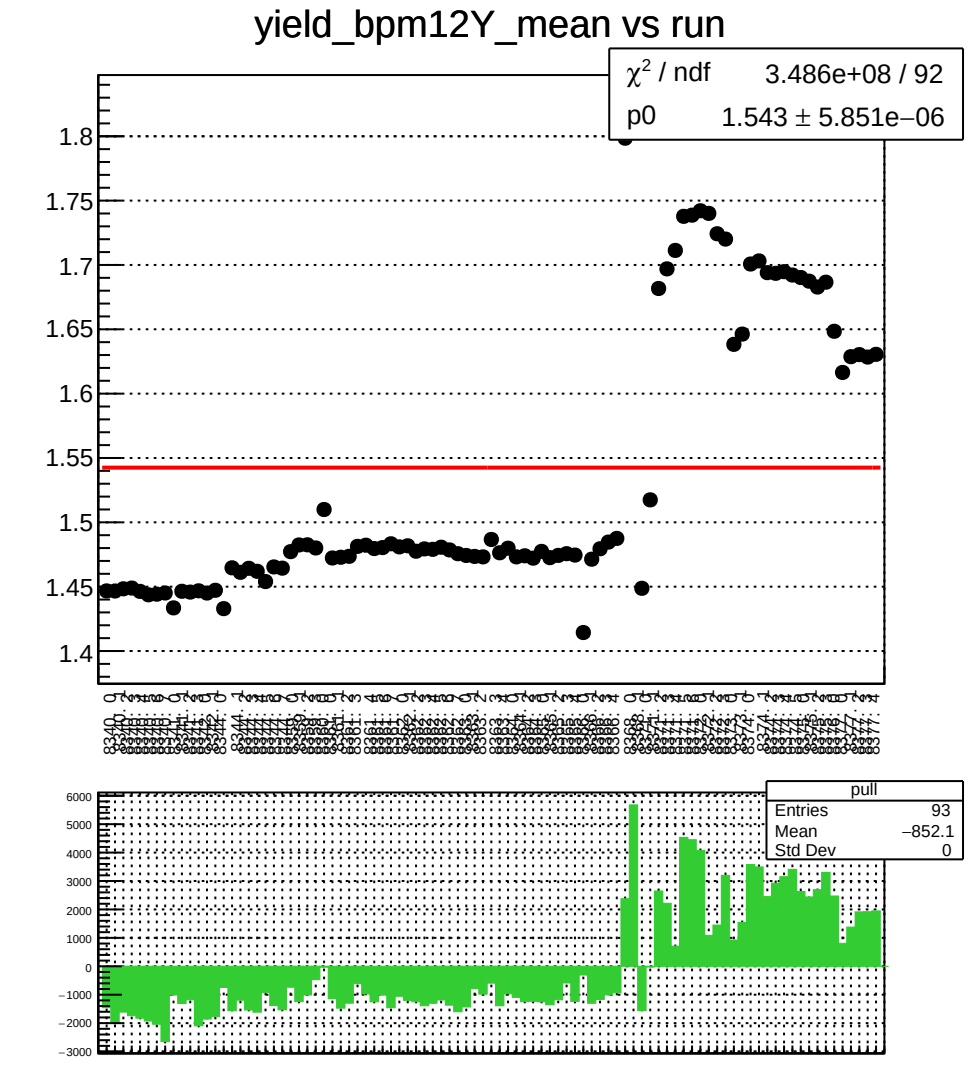

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

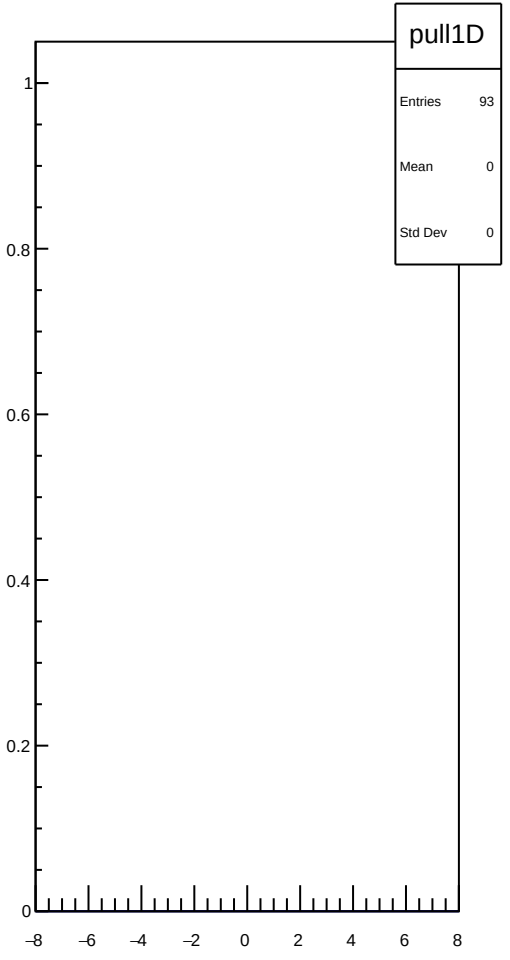

yield_bpm11Y_rms vs run
χ² / ndf 1.718e+05 / 92
p0 0.009752 ± 7.565e−06
0.25
0.2
0.15
0.1
0.05

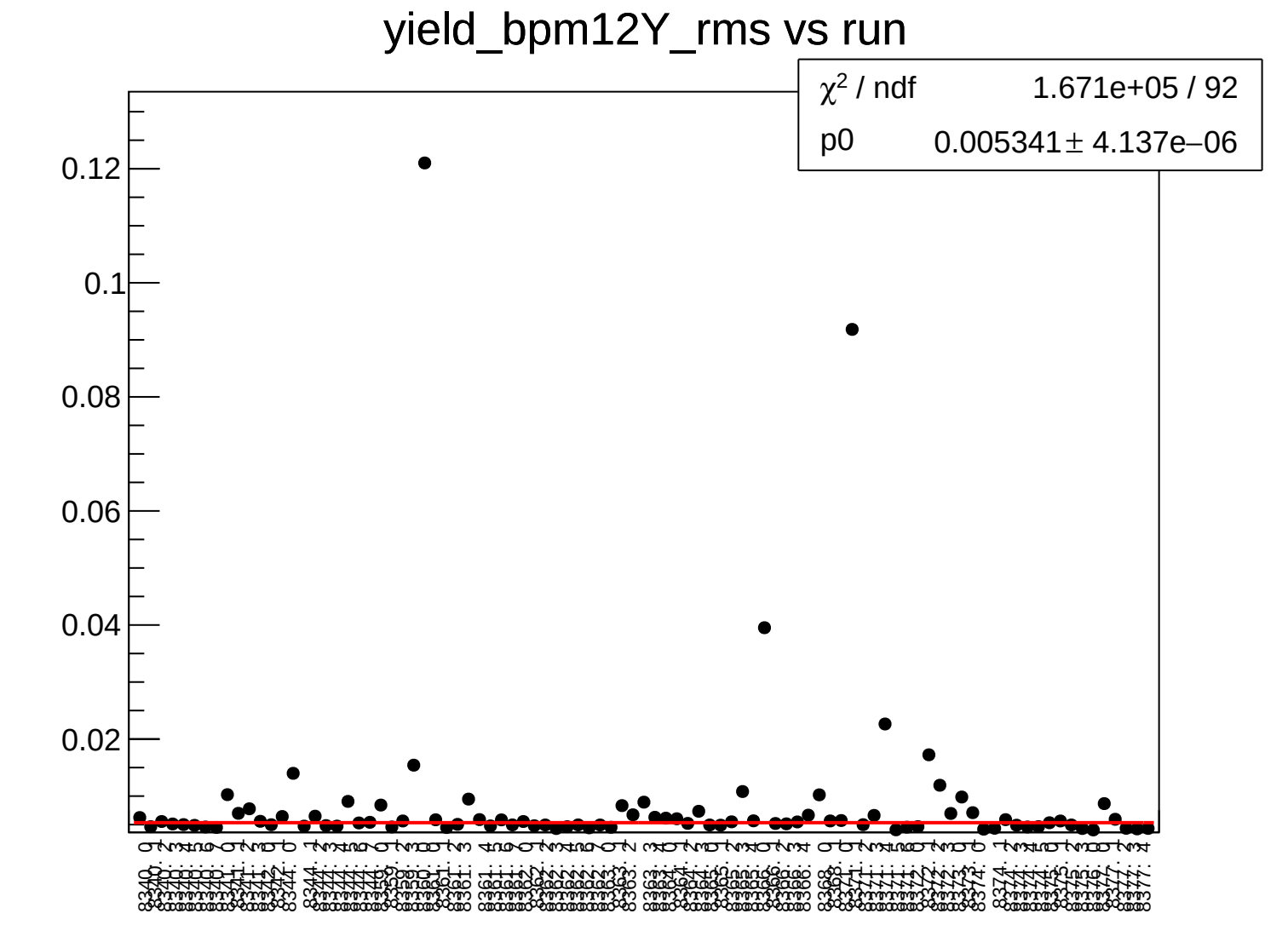

yield_bpm12X_mean vs run
χ² / ndf 4.11e+06 / 92
p0 −0.7413 ± 7.832e−05
pull
Entries 93
Mean −194.5
Std Dev 0

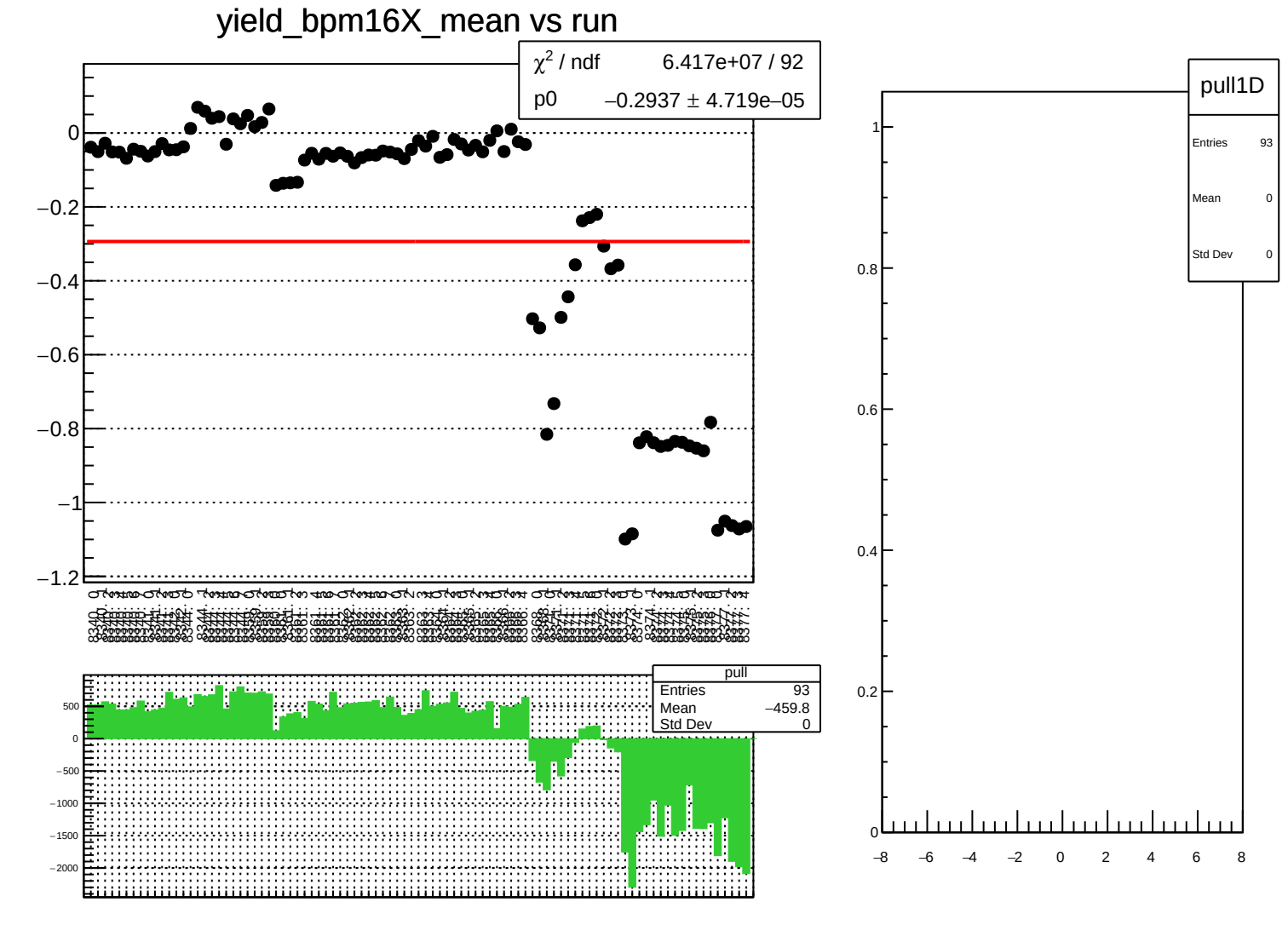

pull1D
Entries 93
Mean −6.07
Std Dev 0

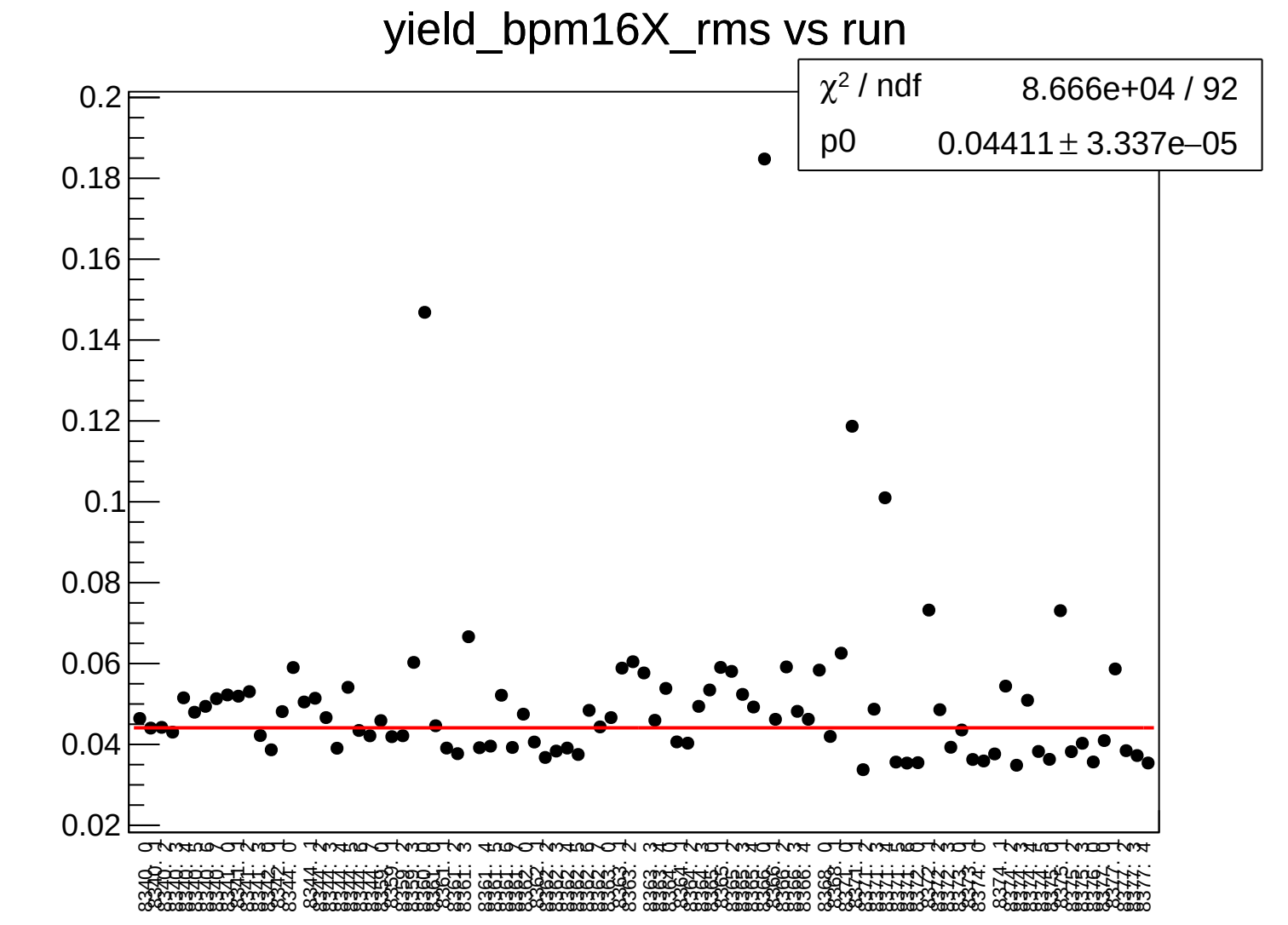

yield_bpm12X_rms vs run
χ² / ndf 1.244e+05 / 92
p0 0.0724 ± 5.538e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

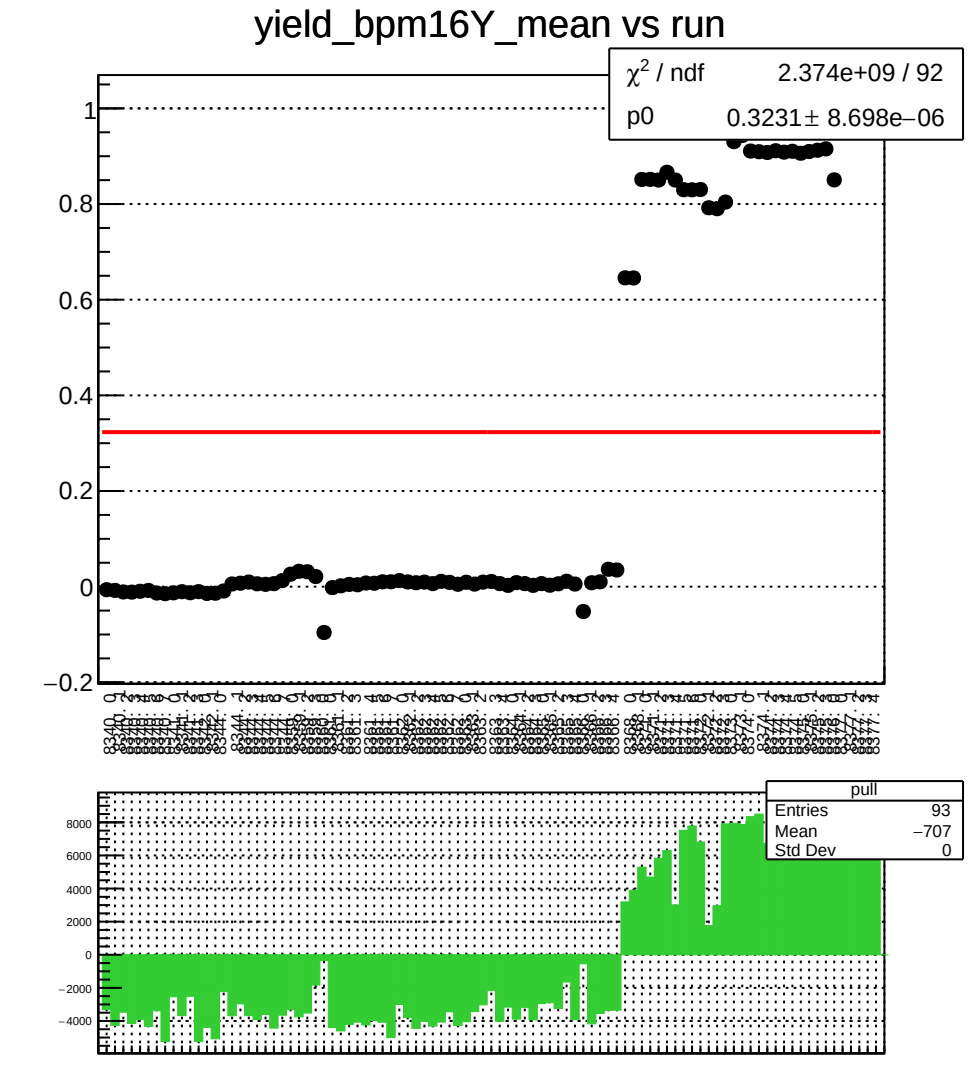

yield_bpm12Y_mean vs run
χ² / ndf 3.486e+08 / 92
p0 1.543 ± 5.851e−06
1.8
1.75
1.7
1.65
1.6
1.55
1.5
1.45
1.4
pull
Entries 93
Mean −852.1
Std Dev 0
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

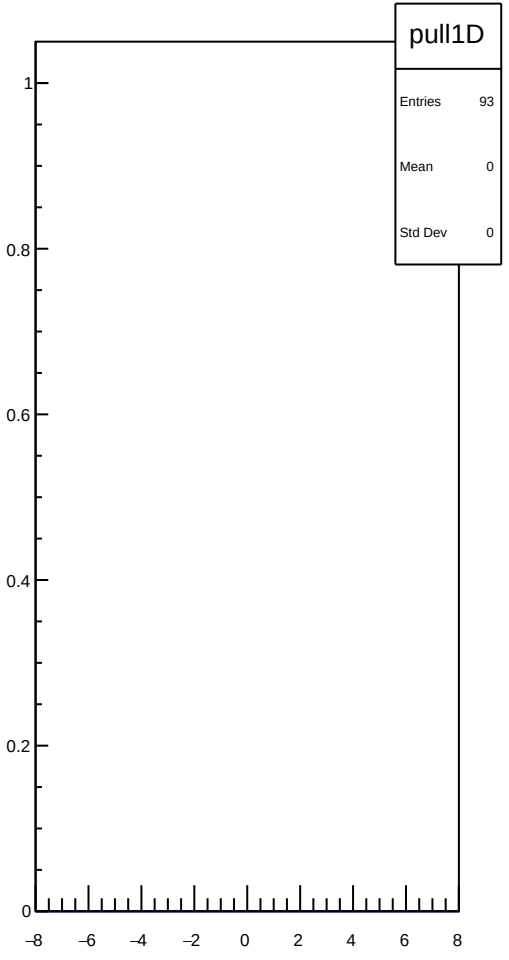

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

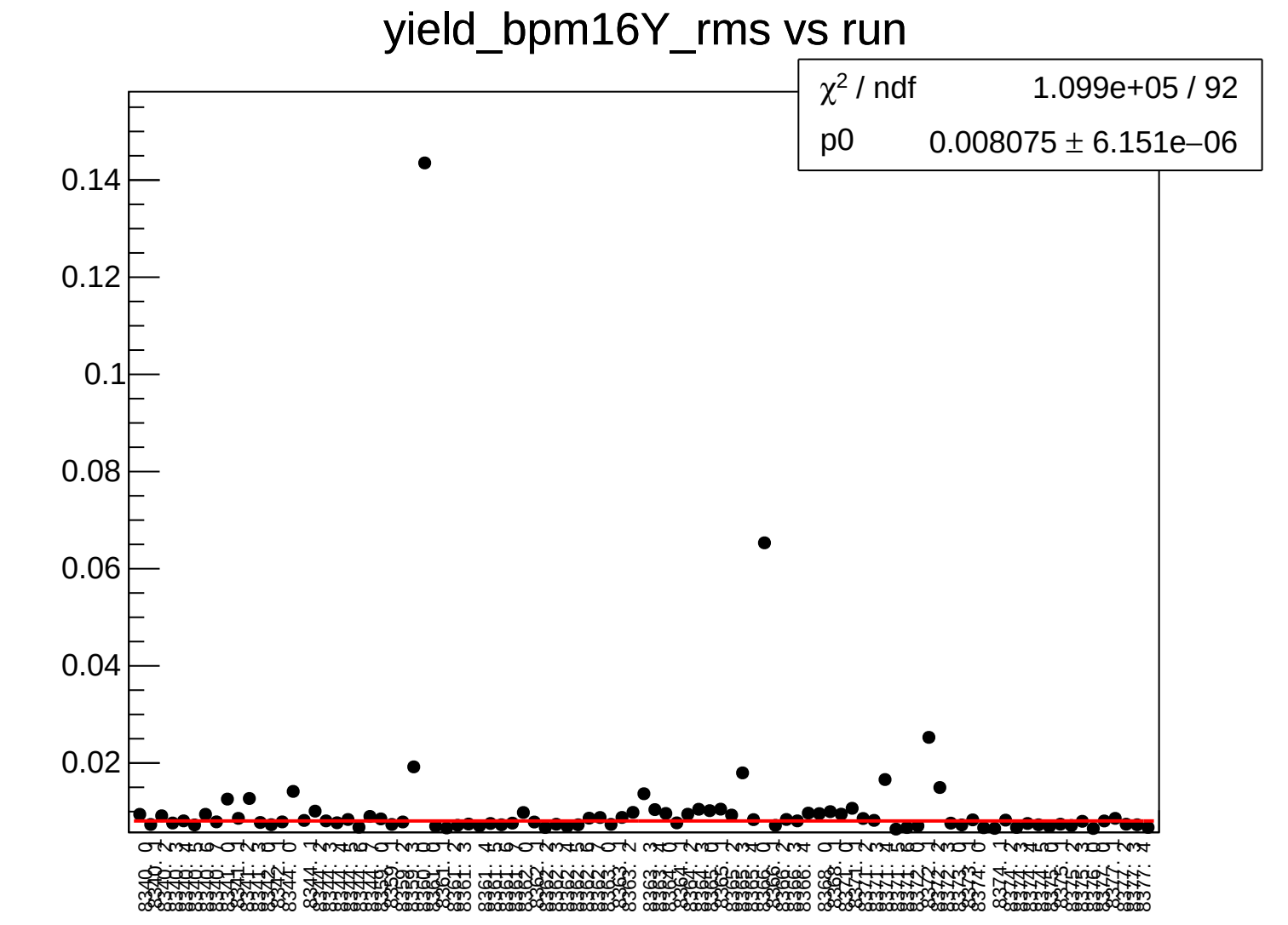

yield_bpm12Y_rms vs run
χ² / ndf 1.671e+05 / 92
p0 0.005341 ± 4.137e−06
0.12
0.1
0.08
0.06
0.04
0.02

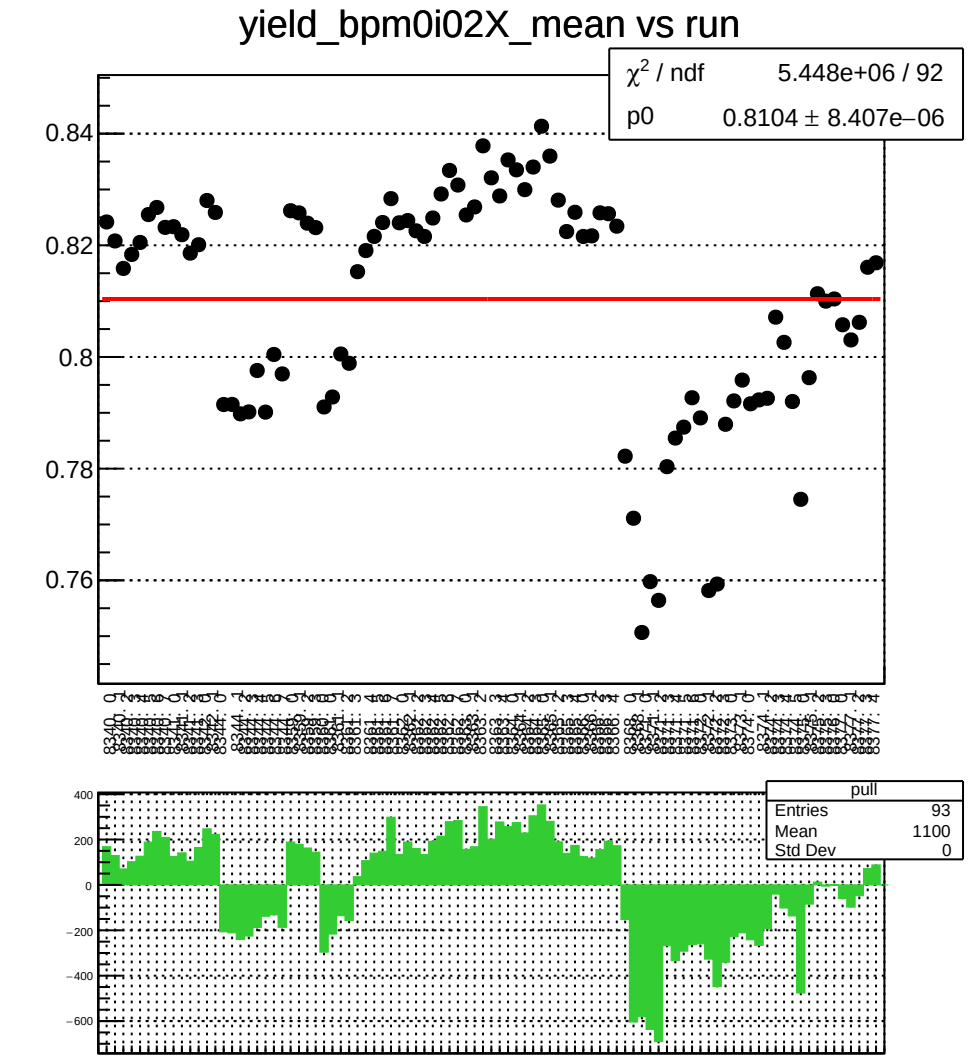

yield_bpm16X_mean vs run
χ² / ndf 6.417e+07 / 92
p0 −0.2937 ± 4.719e−05
pull
Entries 93
Mean −459.8
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

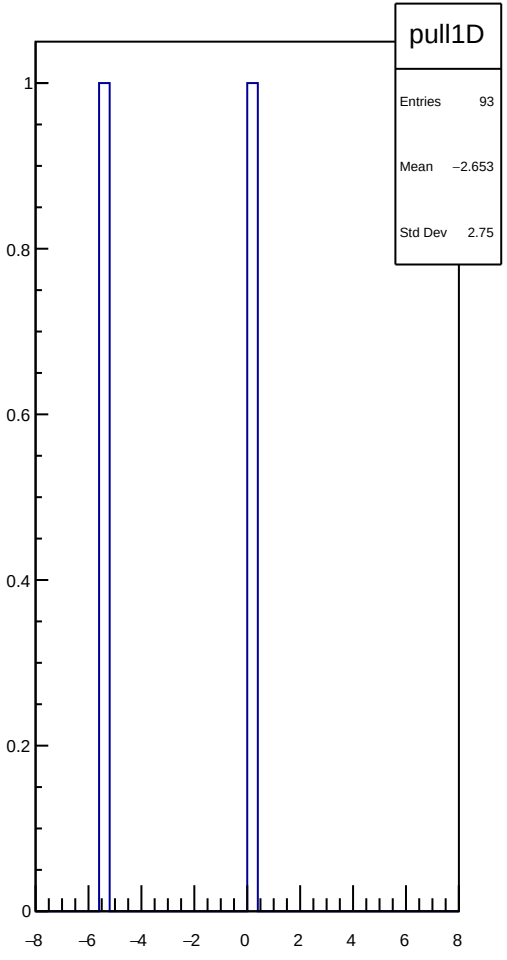

yield_bpm16X_rms vs run
χ² / ndf 8.666e+04 / 92
p0 0.04411 ± 3.337e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

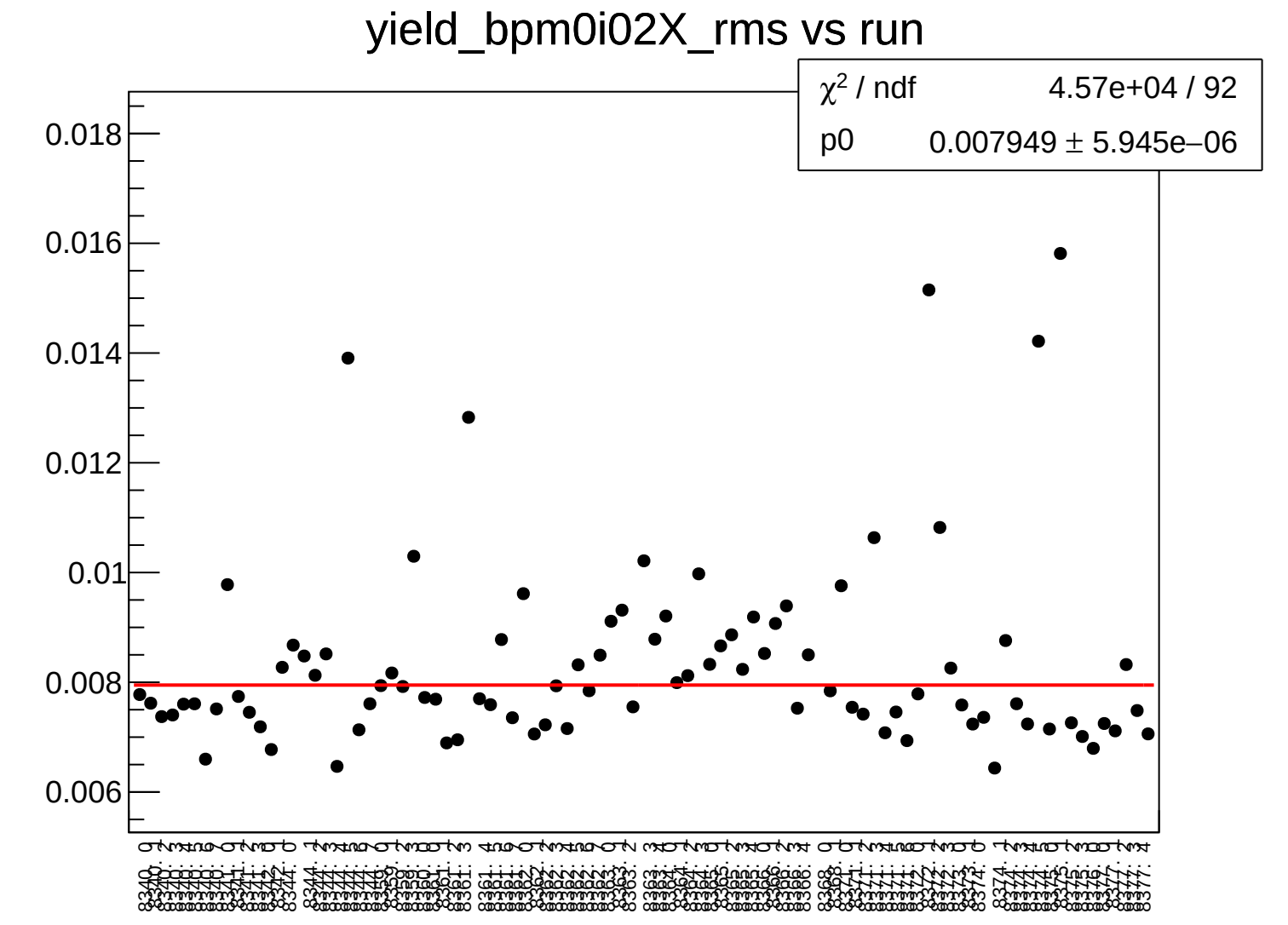

yield_bpm16Y_mean vs run
χ² / ndf 2.374e+09 / 92
p0 0.3231 ± 8.698e−06
pull
Entries 93
Mean −707
Std Dev 0

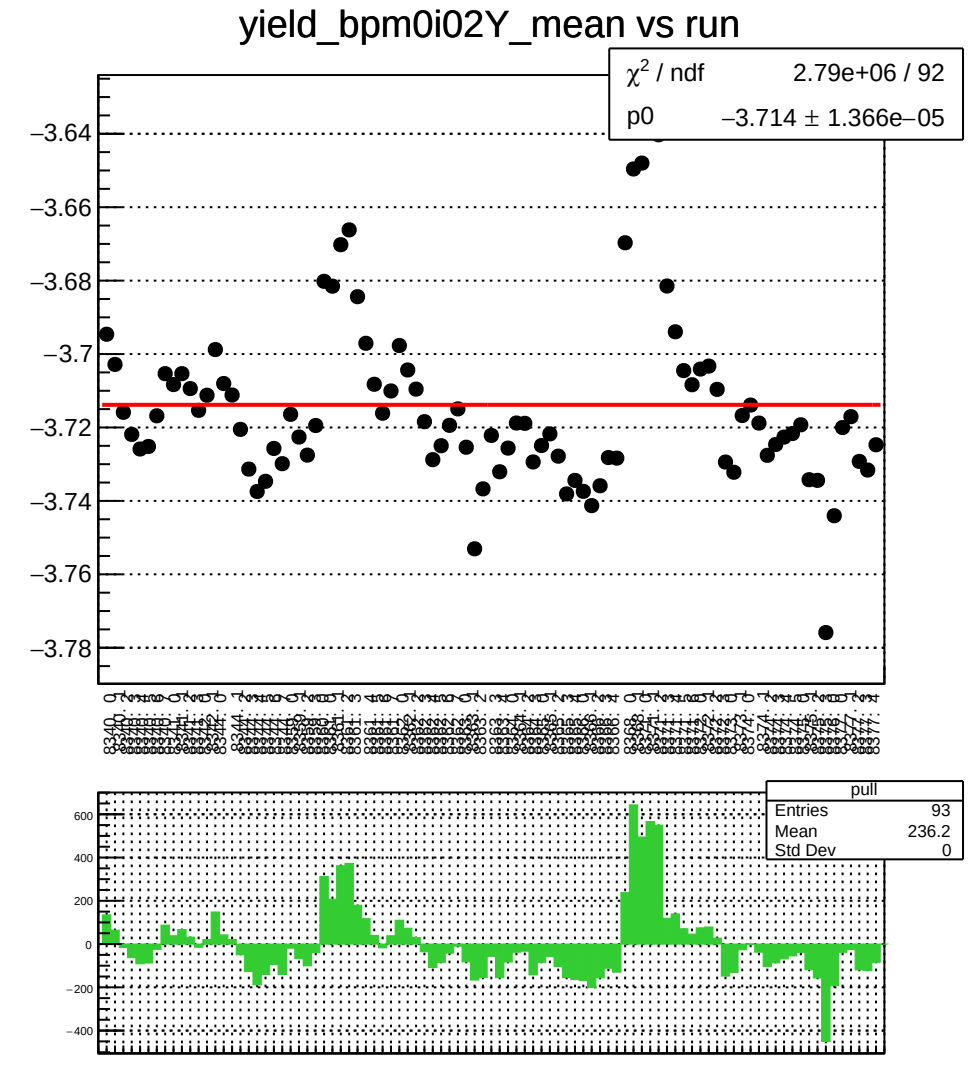

pull1D
Entries 93
Mean 0
Std Dev 0

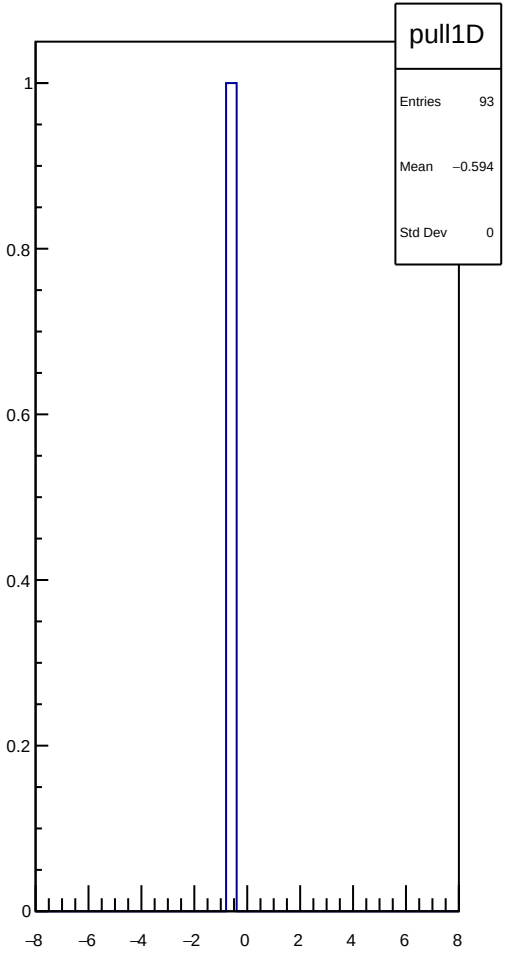

yield_bpm16Y_rms vs run
χ² / ndf 1.099e+05 / 92
p0 0.008075 ± 6.151e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

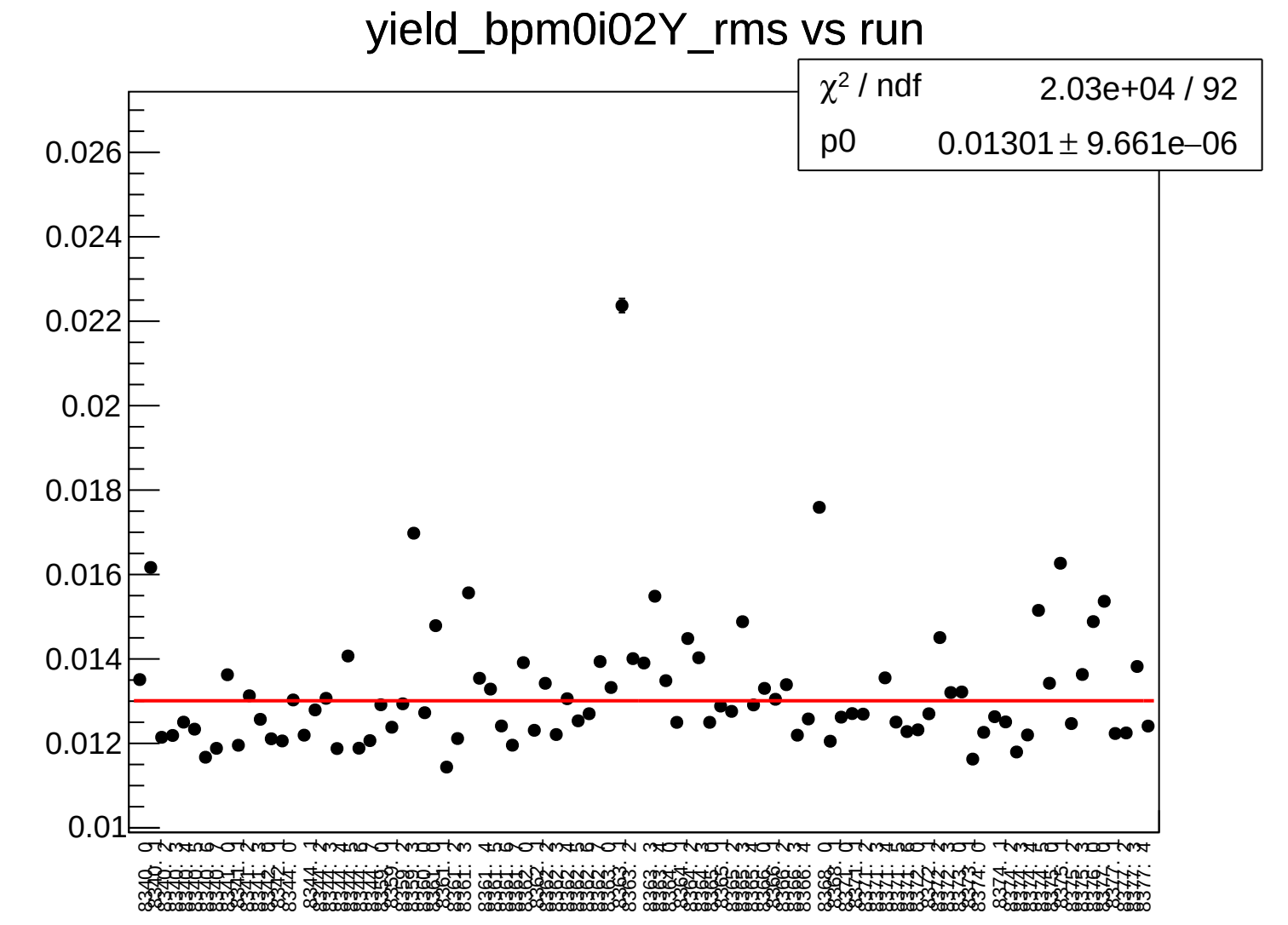

yield_bpm0i02X_mean vs run
χ² / ndf 5.448e+06 / 92
p0 0.8104 ± 8.407e−06
0.84
0.82
0.8
0.78
0.76
pull
Entries 93
Mean 1100
Std Dev 0
400
200
0
−200
−400
−600

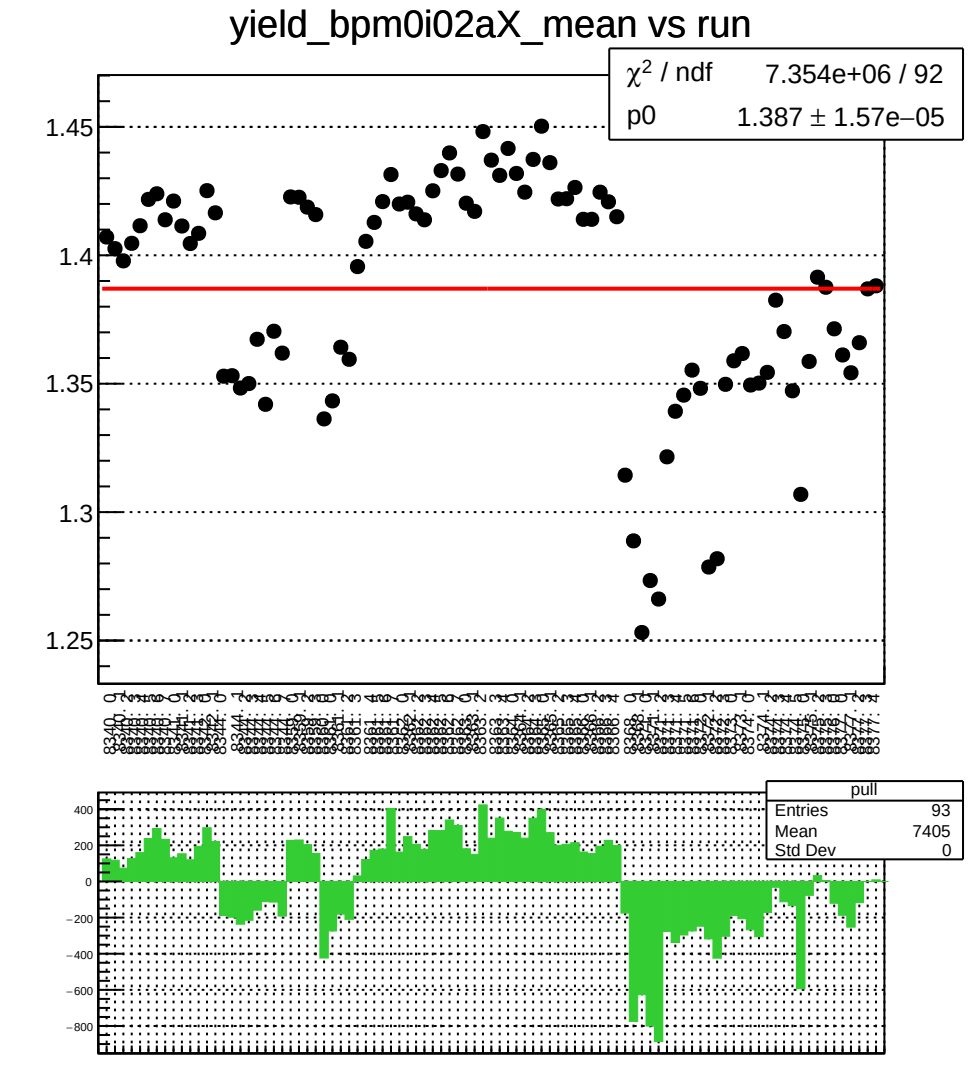

pull1D
Entries 93
Mean −2.653
Std Dev 2.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

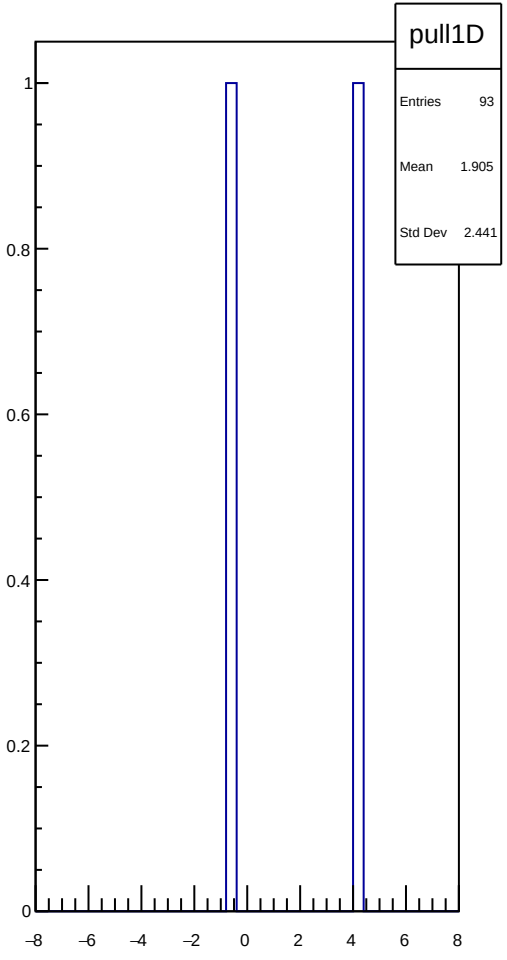

yield_bpm0i02X_rms vs run
χ^2 / ndf 4.57e+04 / 92
p0 0.007949 ± 5.945e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

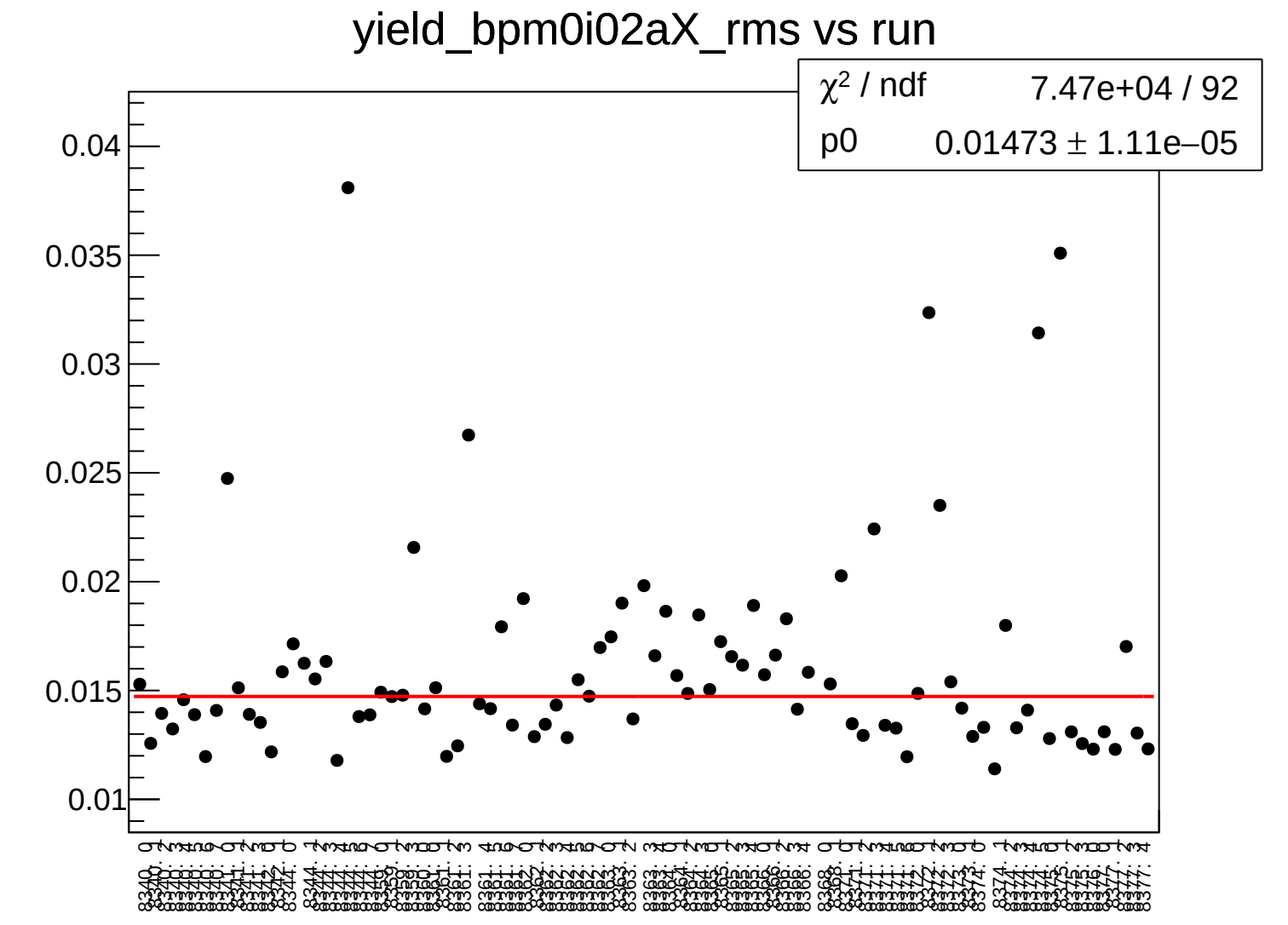

yield_bpm0i02Y_mean vs run
χ² / ndf 2.79e+06 / 92
p0 −3.714 ± 1.366e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 93
Mean 236.2
Std Dev 0
600
400
200
0
−200
−400

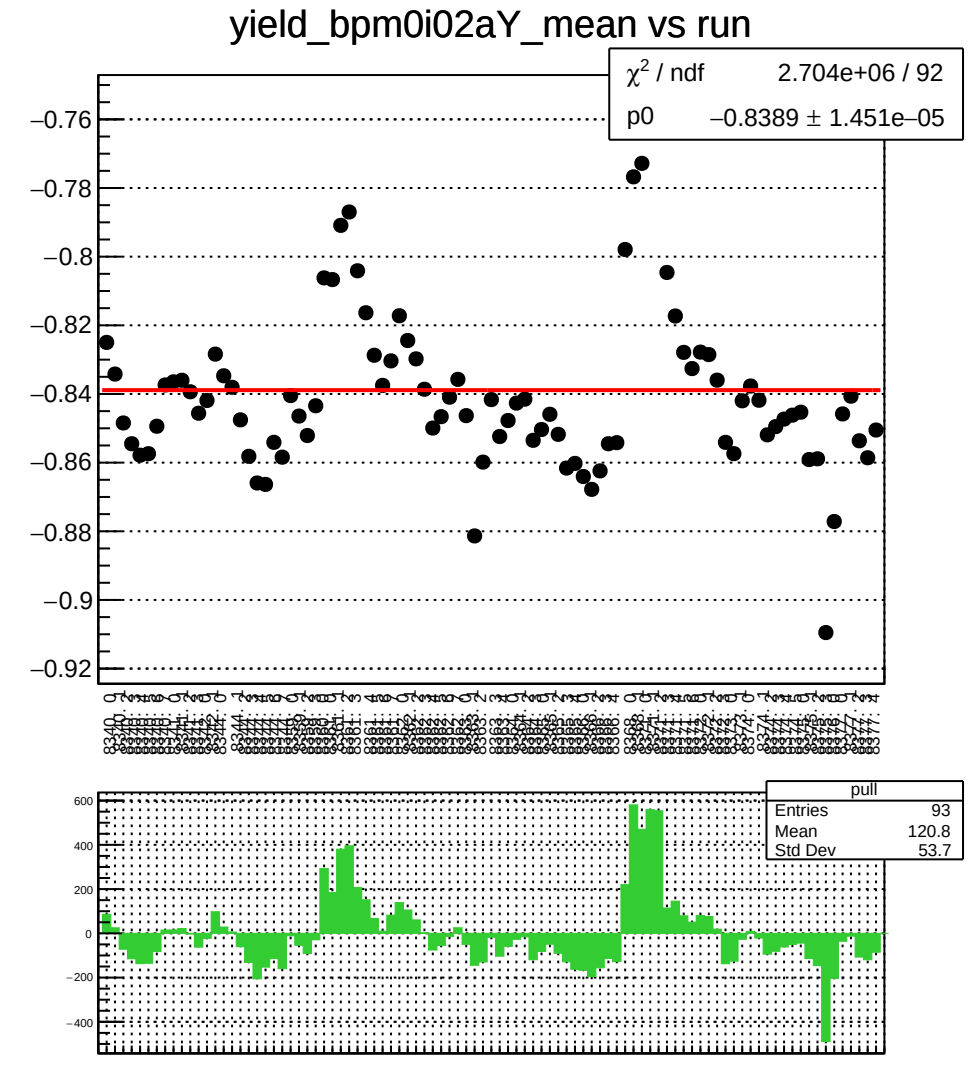

pull1D
Entries 93
Mean −0.594
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

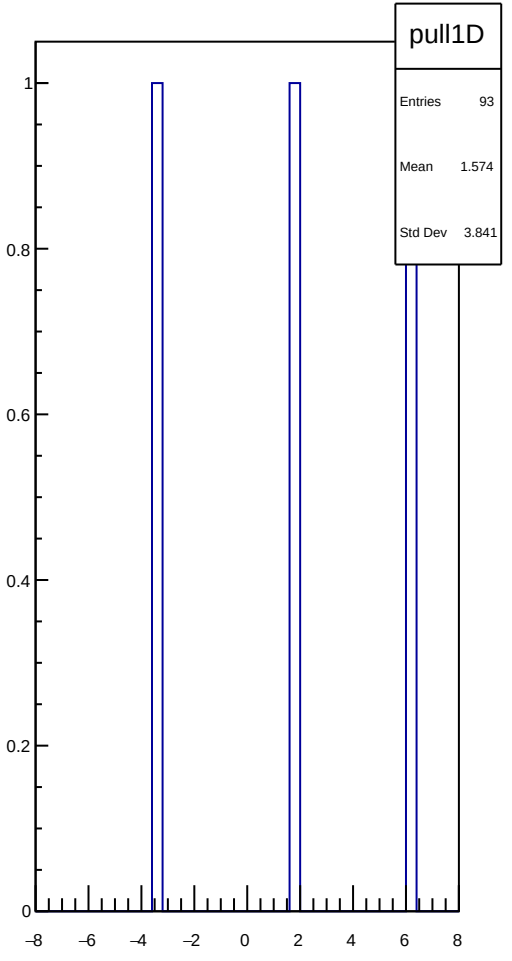

yield_bpm0i02Y_rms vs run
χ² / ndf 2.03e+04 / 92
p0 0.01301 ± 9.661e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

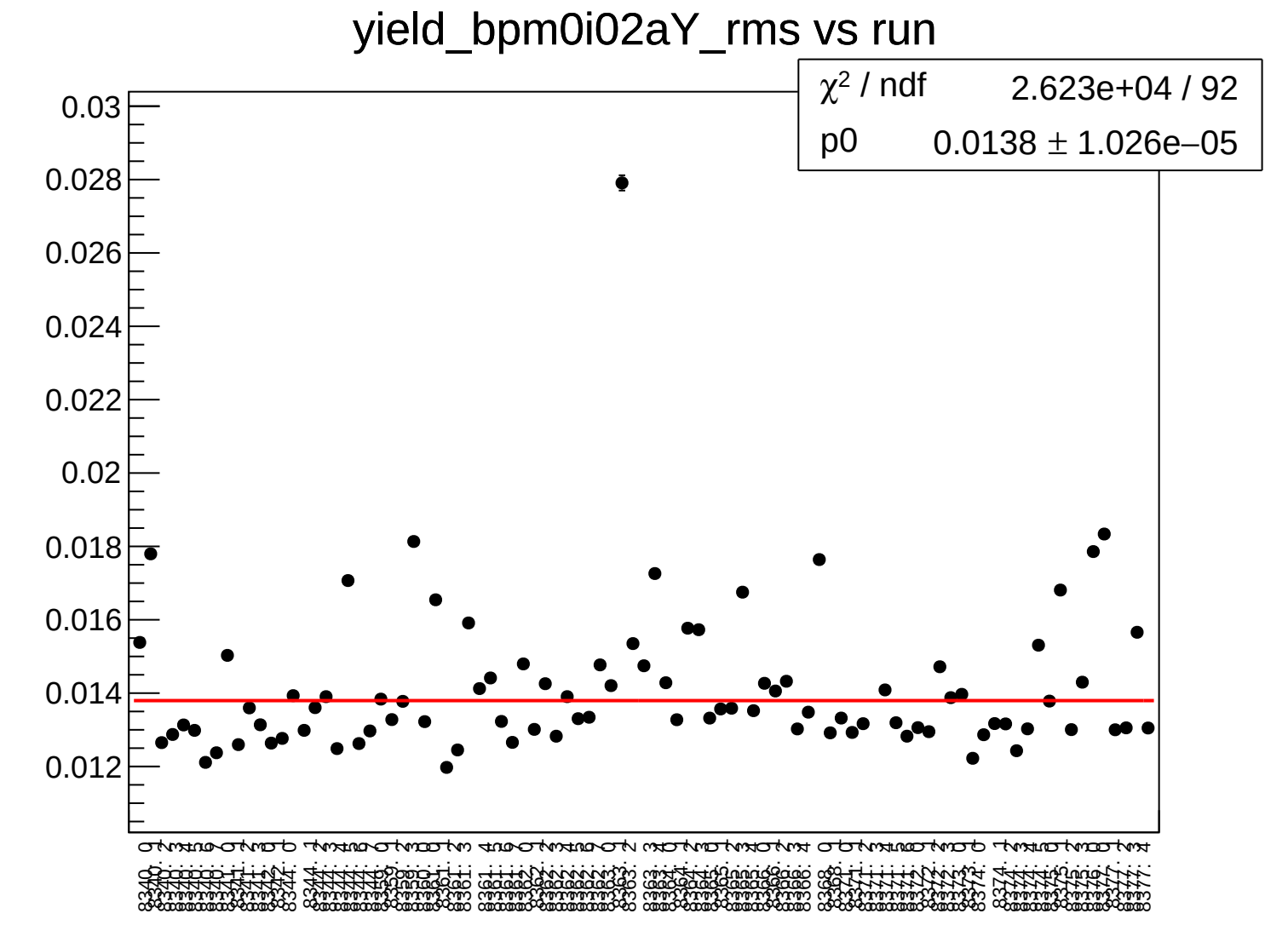

yield_bpm0i02aX_mean vs run
χ² / ndf 7.354e+06 / 92
p0 1.387 ± 1.57e−05
1.45
1.4
1.35
1.3
1.25
pull
Entries 93
Mean 7405
Std Dev 0
400
200
0
−200
−400
−600
−800

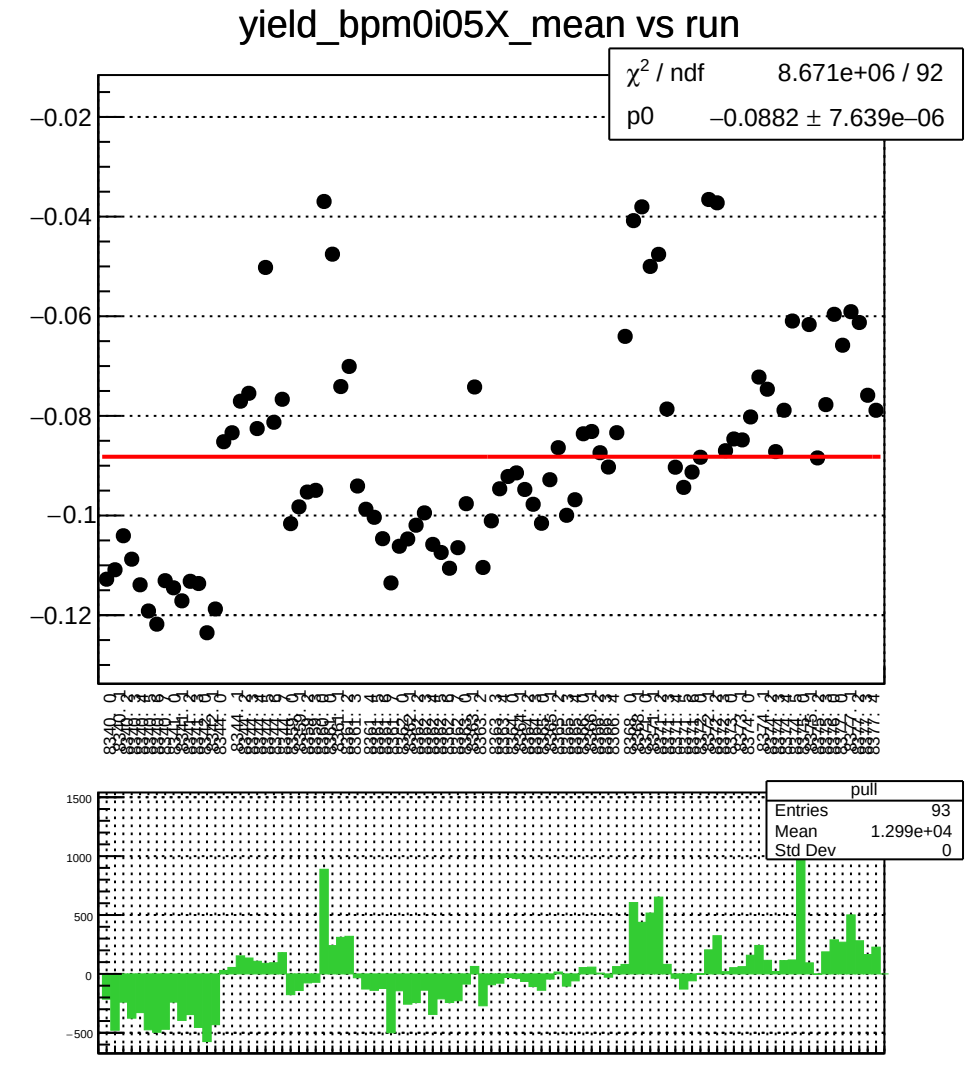

pull1D
Entries 93
Mean 1.905
Std Dev 2.441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

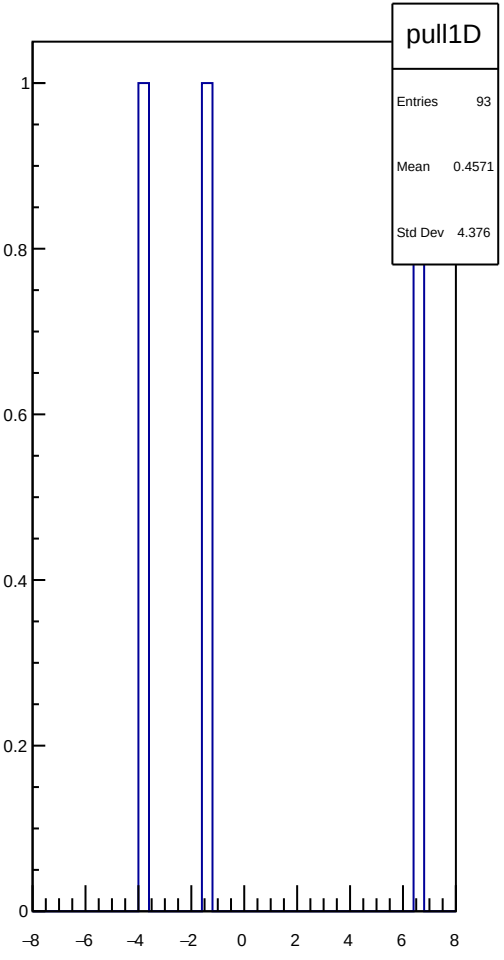

yield_bpm0i02aX_rms vs run
χ² / ndf 7.47e+04 / 92
p0 0.01473 ± 1.11e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

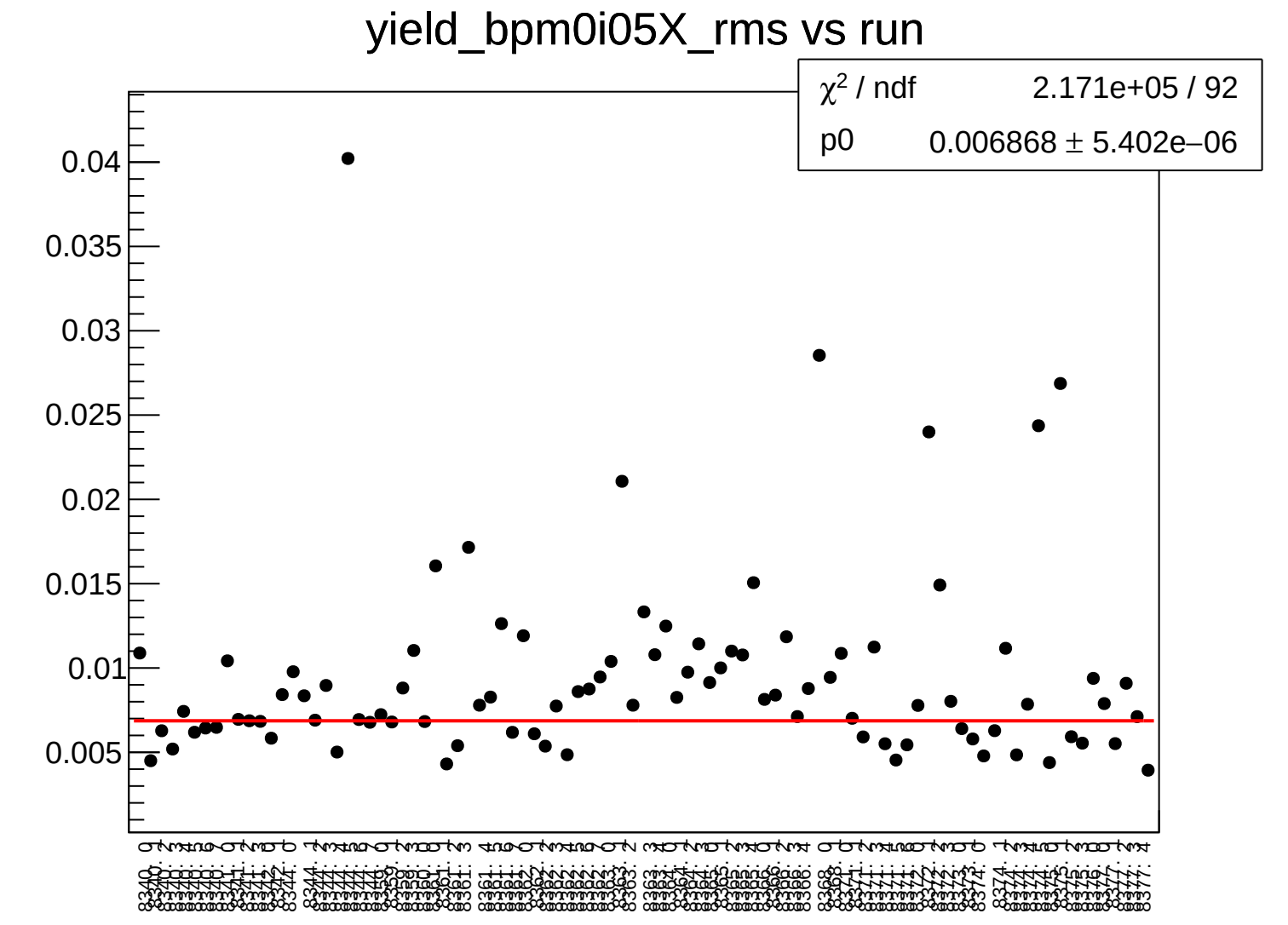

yield_bpm0i02aY_mean vs run
χ² / ndf 2.704e+06 / 92
p0 −0.8389 ± 1.451e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 93
Mean 120.8
Std Dev 53.7
600
400
200
0
−200
−400

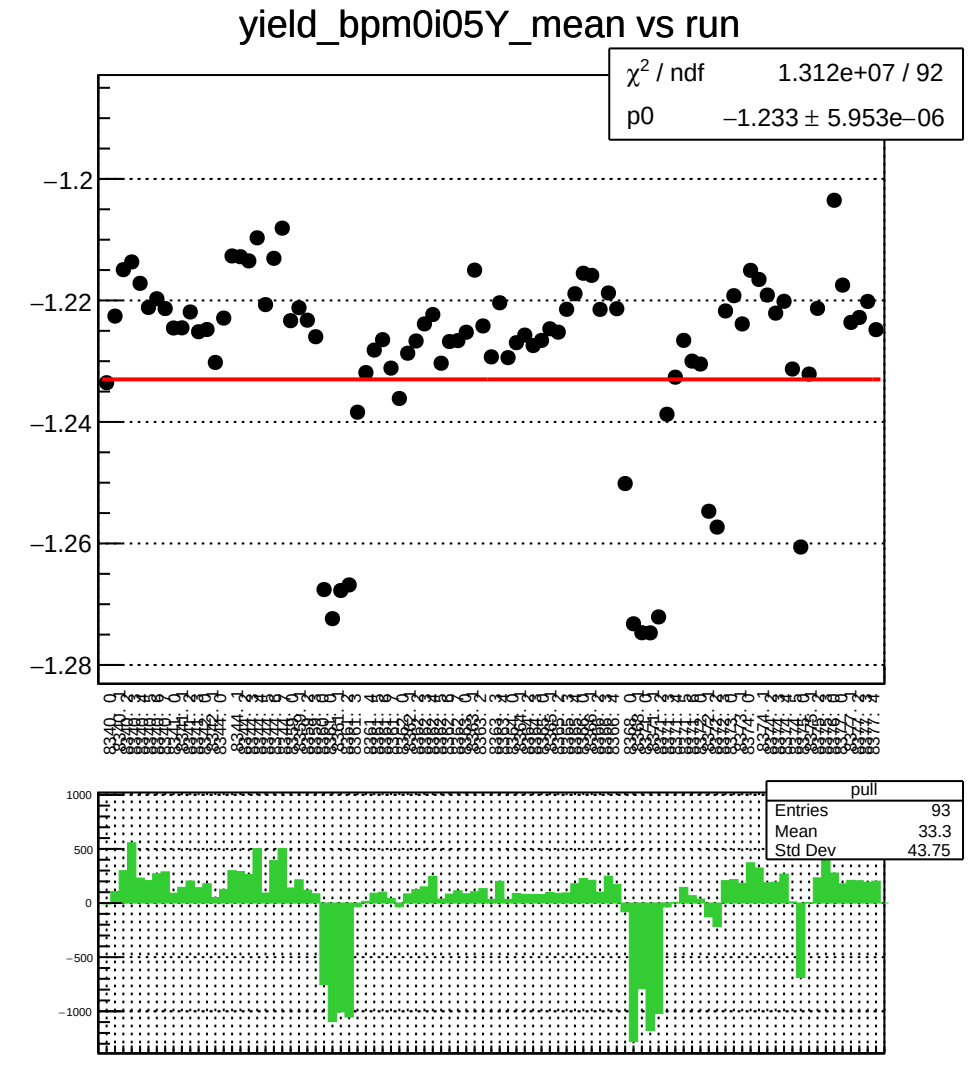

pull1D
Entries 93
Mean 1.574
Std Dev 3.841
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

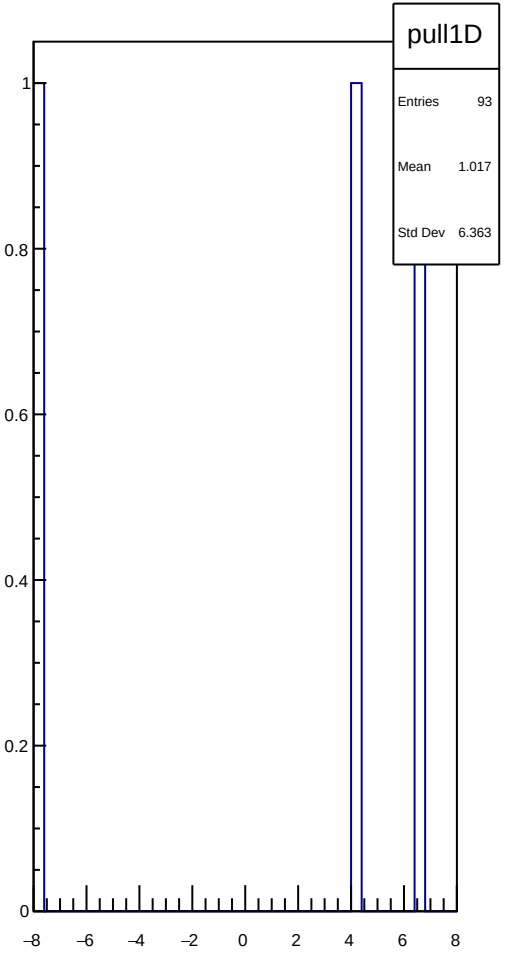

yield_bpm0i02aY_rms vs run
χ² / ndf 2.623e+04 / 92
p0 0.0138 ± 1.026e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

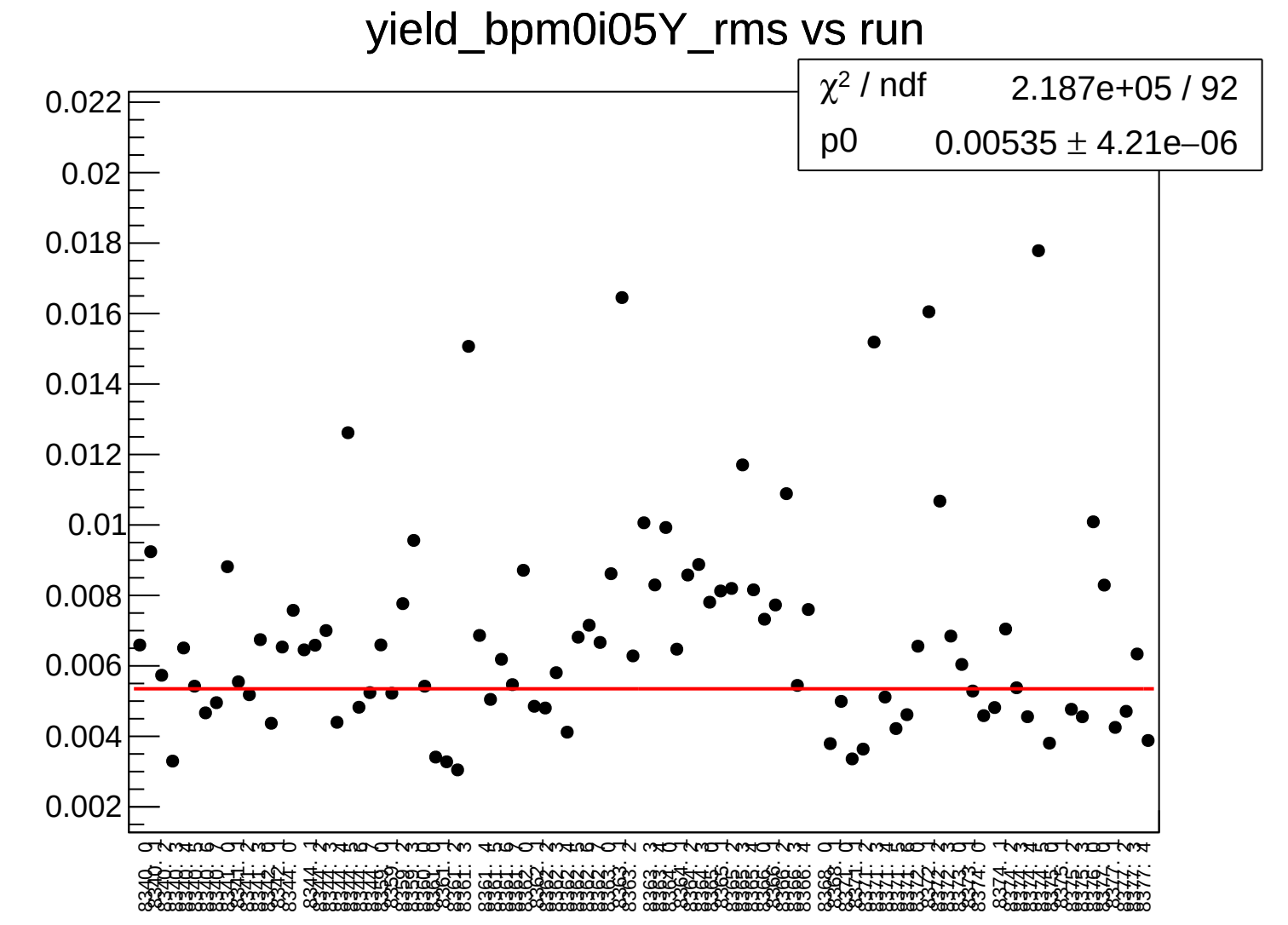

yield_bpm0i05X_mean vs run
χ² / ndf 8.671e+06 / 92
p0 −0.0882 ± 7.639e−06
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 93
Mean 1.299e+04
Std Dev 0
1500
1000
500
0
−500

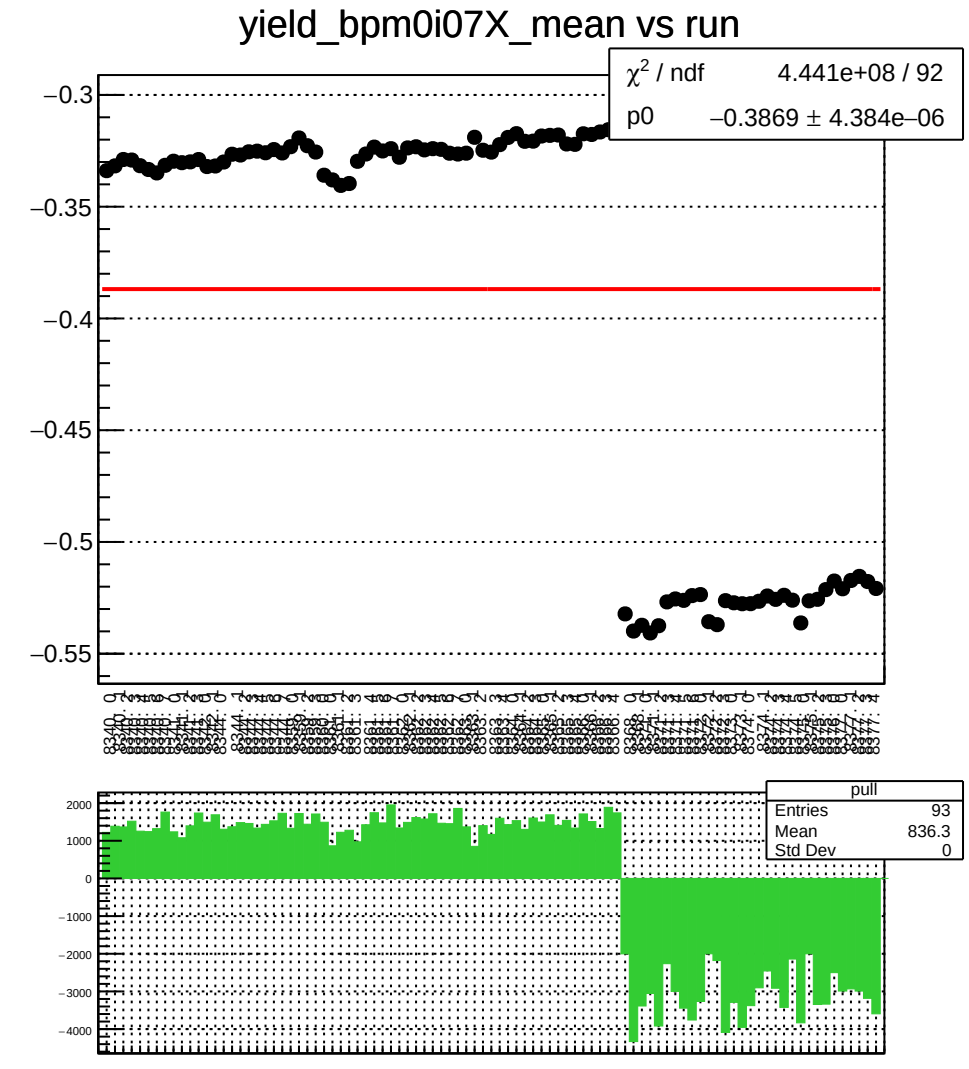

pull1D
Entries 93
Mean 0.4571
Std Dev 4.376
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

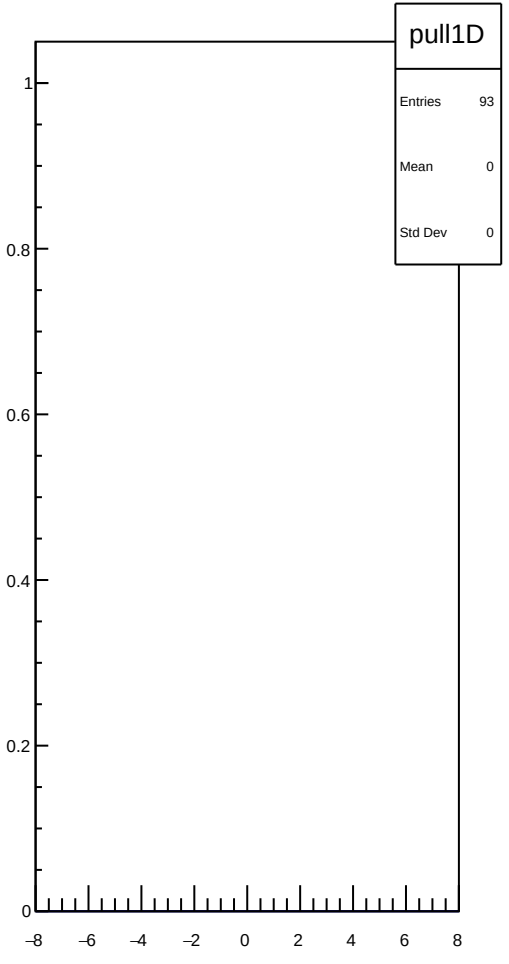

yield_bpm0i05X_rms vs run
χ^2 / ndf 2.171e+05 / 92
p0 0.006868 ± 5.402e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

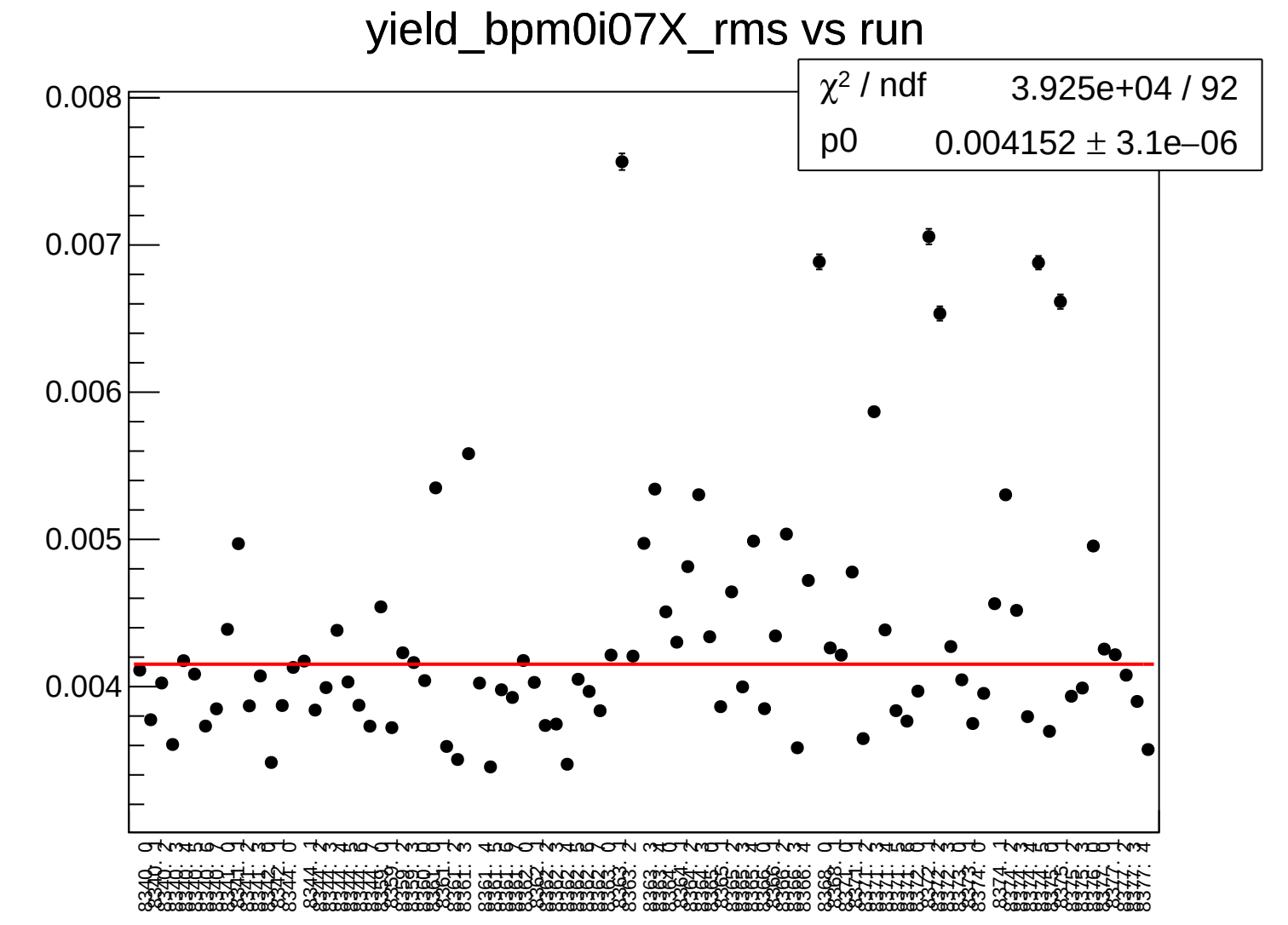

yield_bpm0i05Y_mean vs run
χ² / ndf 1.312e+07 / 92
p0 −1.233 ± 5.953e−06
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 93
Mean 33.3
Std Dev 43.75
1000
500
0
−500
−1000

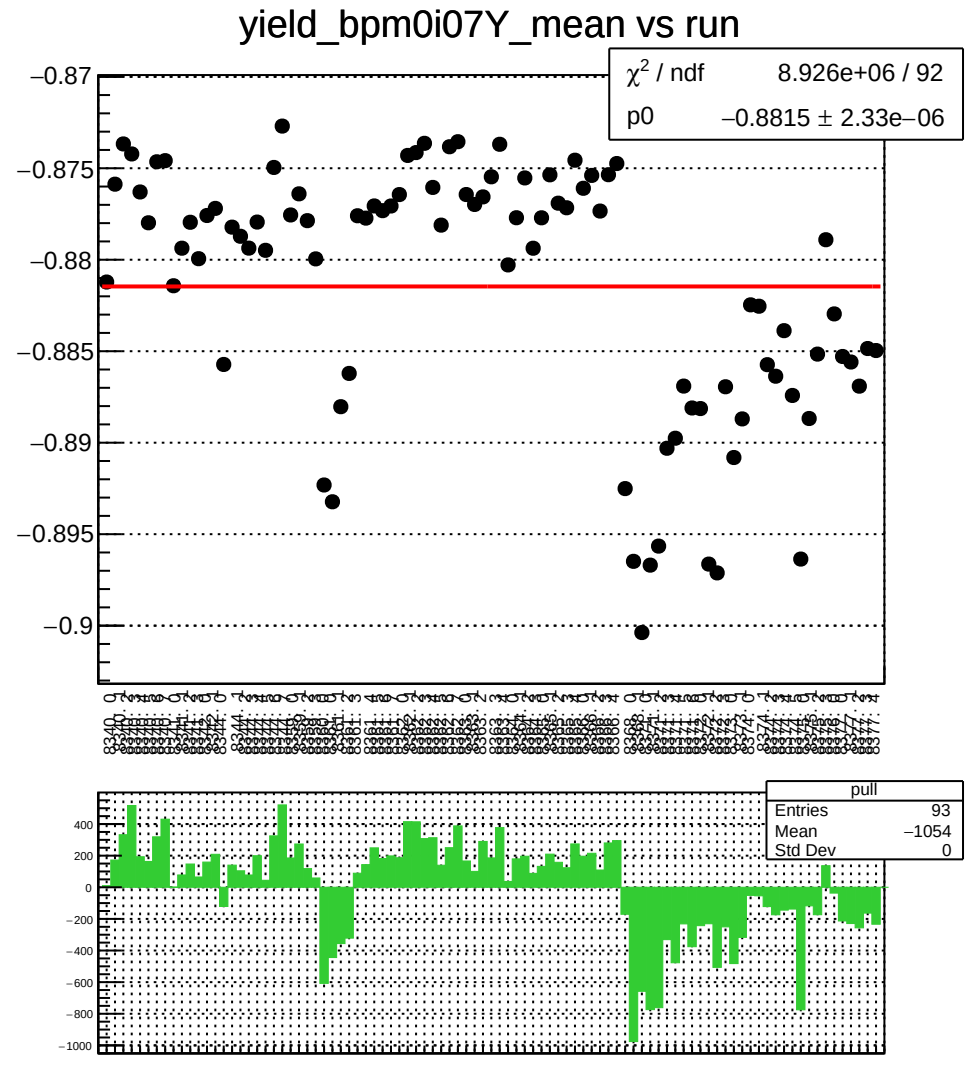

pull1D
Entries 93
Mean 1.017
Std Dev 6.363
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

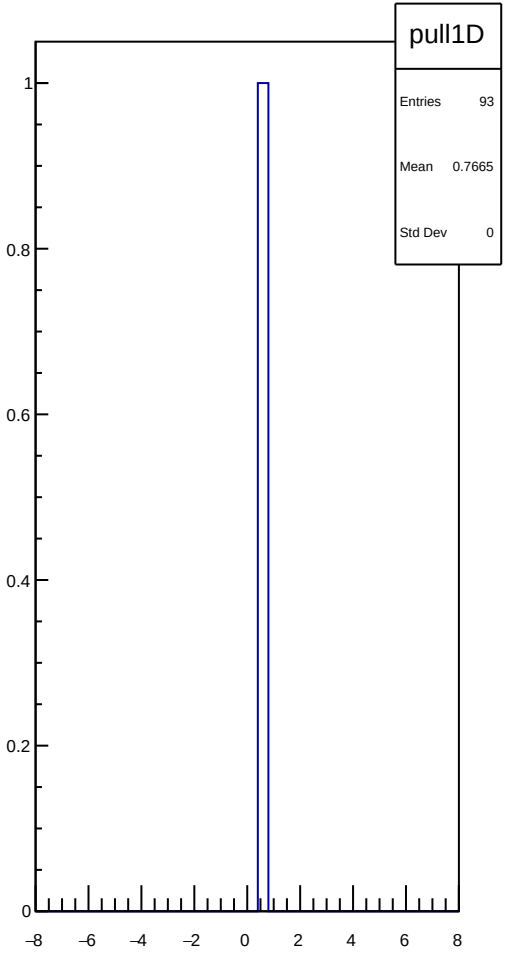

yield_bpm0i05Y_rms vs run
χ² / ndf 2.187e+05 / 92
p0 0.00535 ± 4.21e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

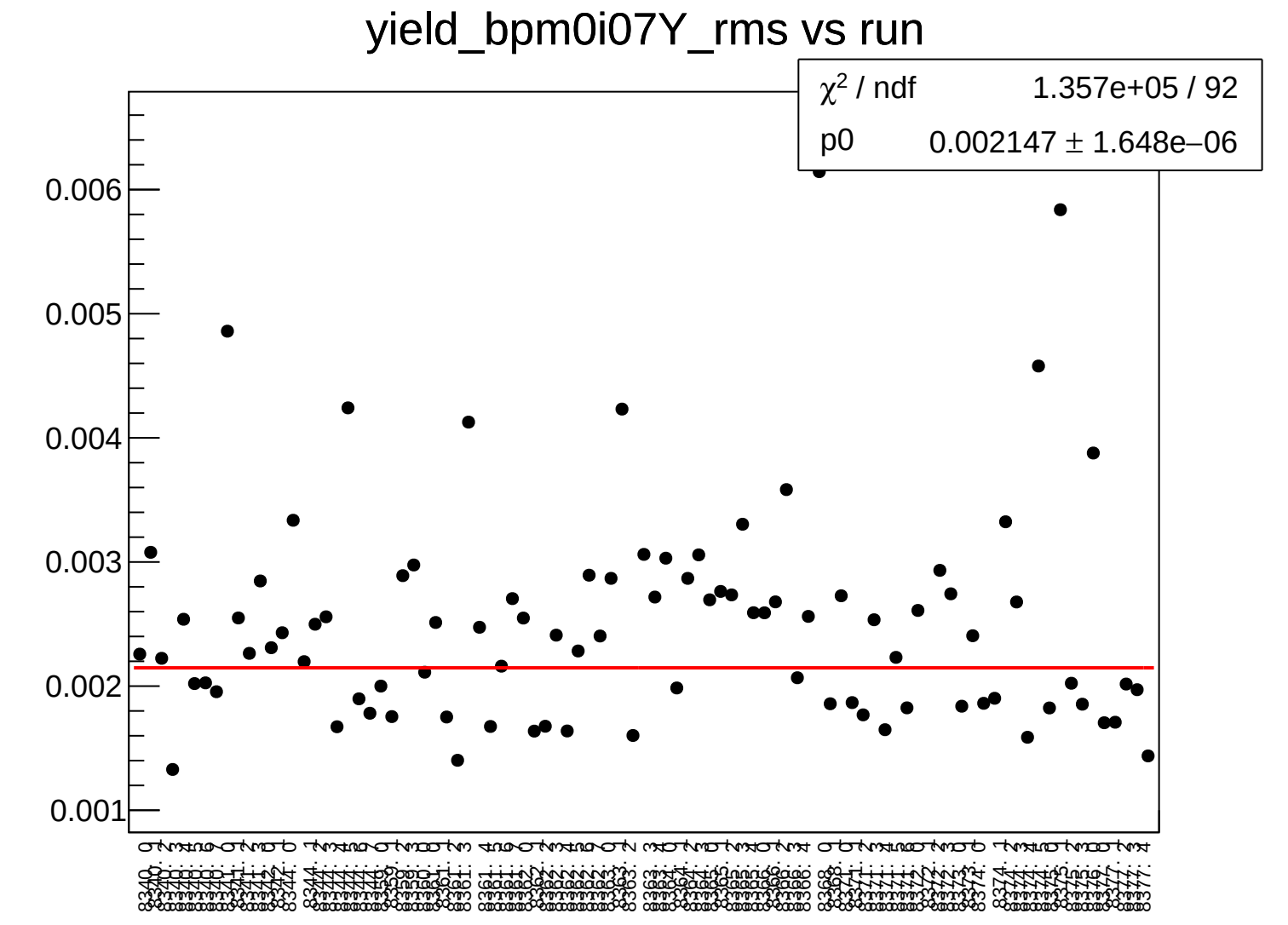

yield_bpm0i07X_mean vs run
χ² / ndf 4.441e+08 / 92
p0 −0.3869 ± 4.384e−06
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 93
Mean 836.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000

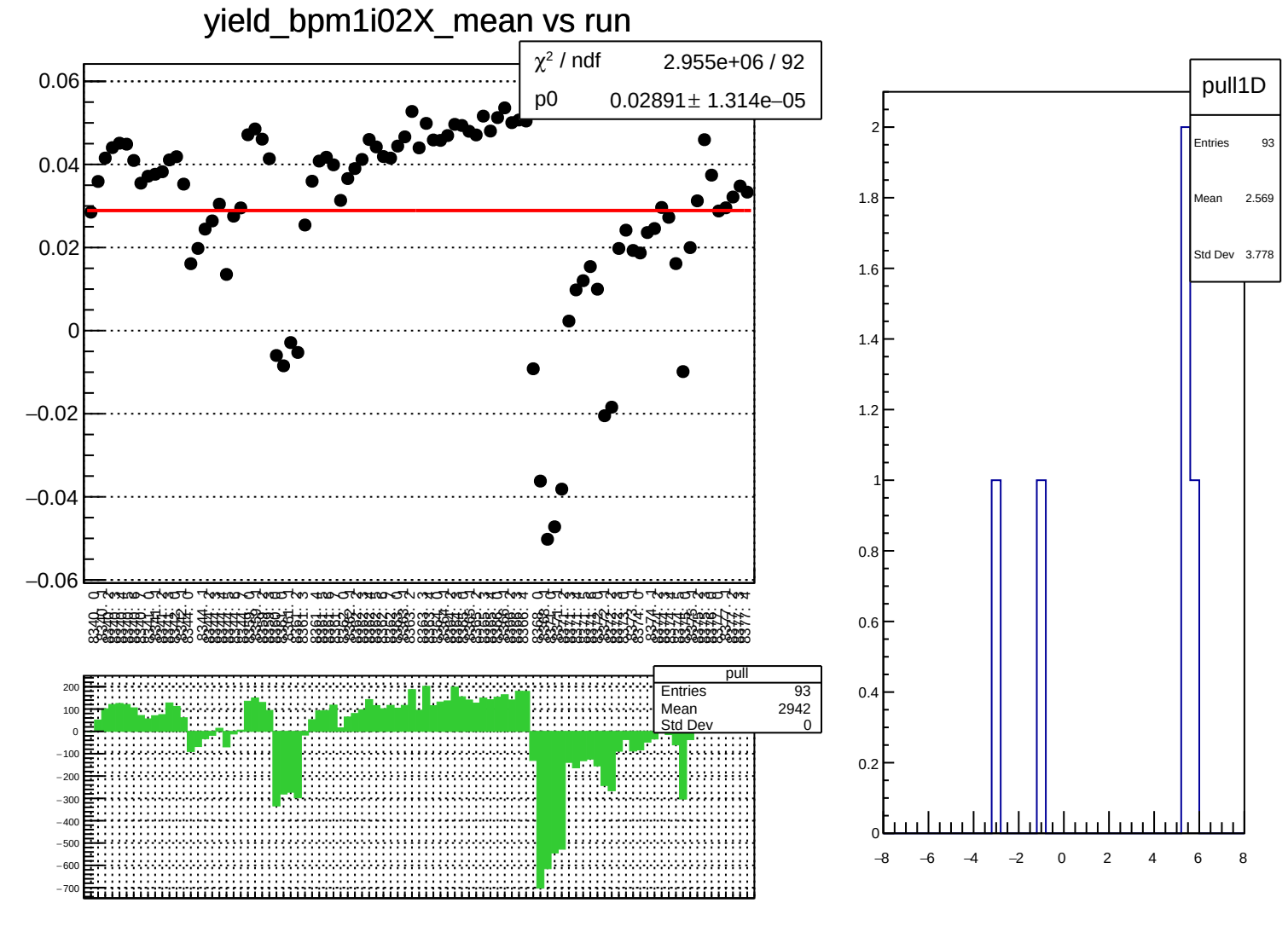

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

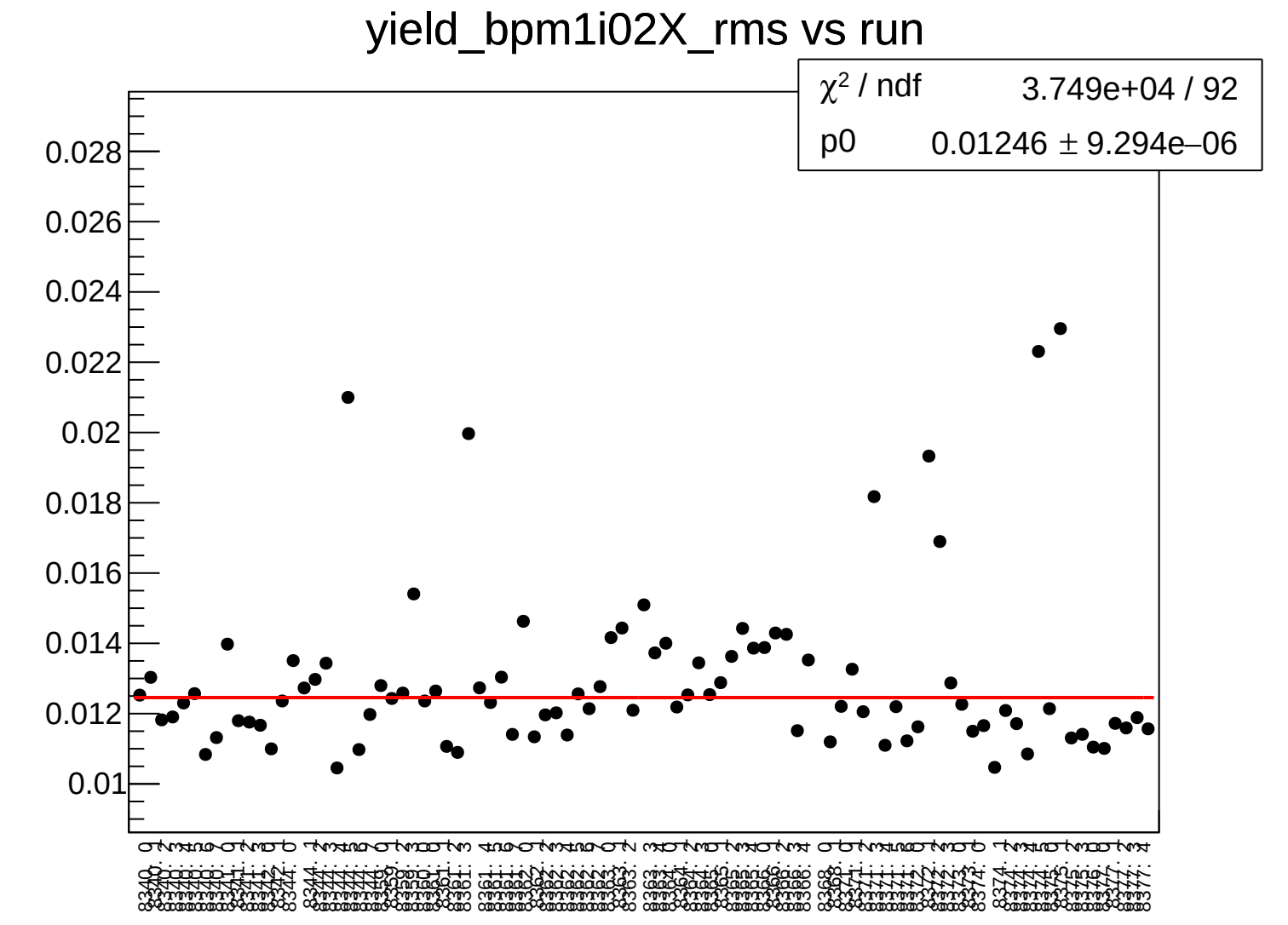

yield_bpm0i07X_rms vs run
χ² / ndf 3.925e+04 / 92
p0 0.004152 ± 3.1e−06
0.008
0.007
0.006
0.005
0.004

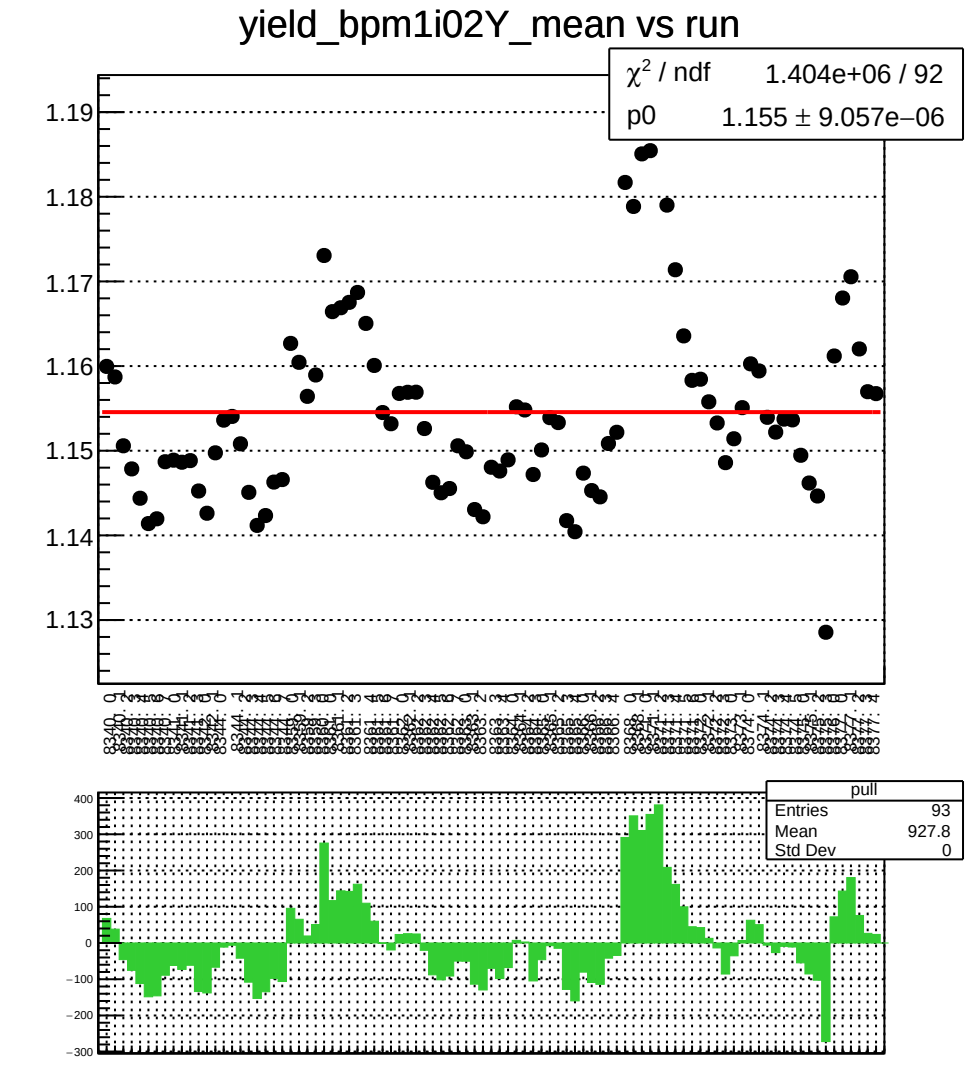

yield_bpm0i07Y_mean vs run
χ² / ndf 8.926e+06 / 92
p0 −0.8815 ± 2.33e−06
−0.87
−0.875
−0.88
−0.885
−0.89
−0.895
−0.9
pull
Entries 93
Mean −1054
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000

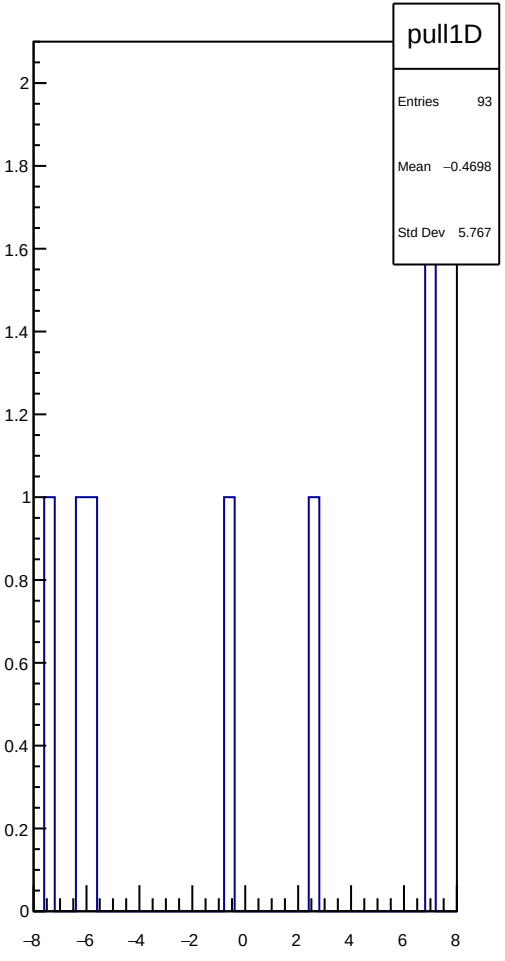

pull1D
Entries 93
Mean 0.7665
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

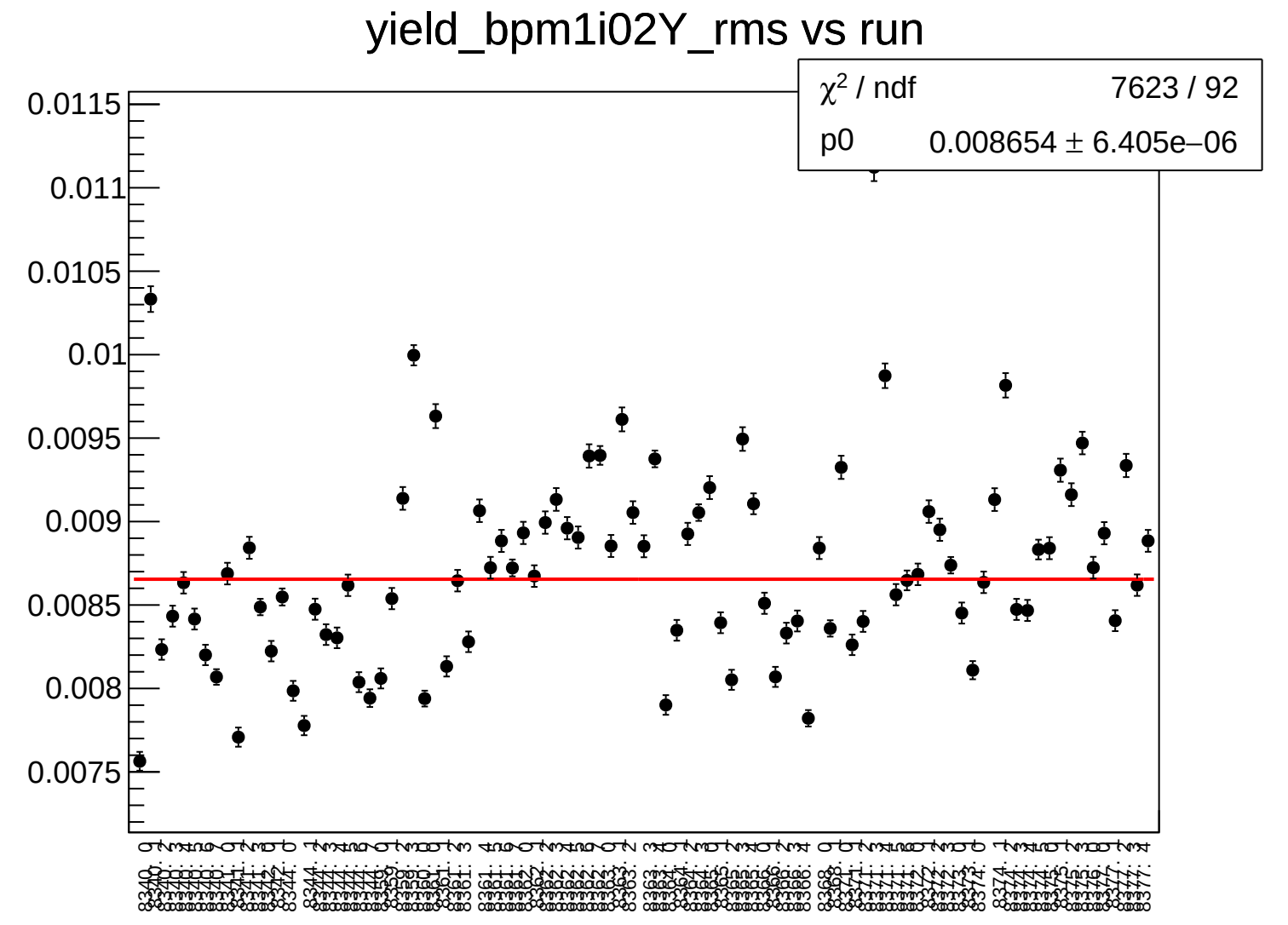

yield_bpm0i07Y_rms vs run
χ² / ndf 1.357e+05 / 92
p0 0.002147 ± 1.648e−06
0.006
0.005
0.004
0.003
0.002
0.001

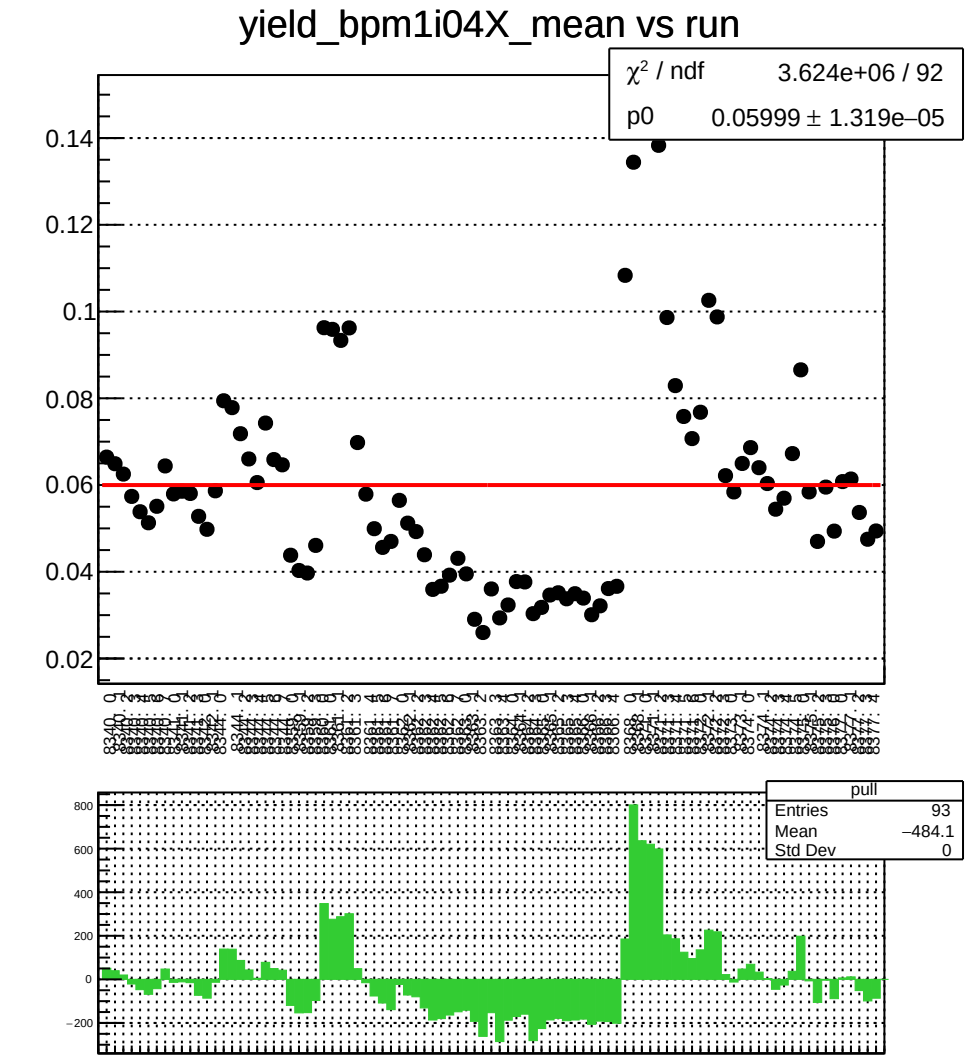

yield_bpm1i02X_mean vs run
χ² / ndf 2.955e+06 / 92
p0 0.02891± 1.314e–05
0.06
0.04
0.02
0
–0.02
–0.04
–0.06
pull
Entries 93
Mean 2942
Std Dev 0
200
100
0
–100
–200
–300
–400
–500
–600
–700
pull1D
Entries 93
Mean 2.569
Std Dev 3.778
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

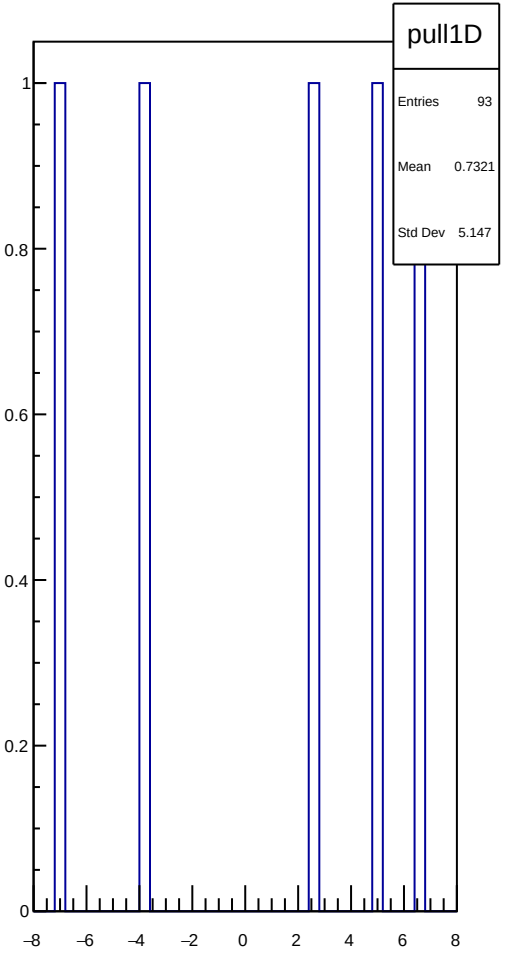

yield_bpm1i02X_rms vs run
χ² / ndf 3.749e+04 / 92
p0 0.01246 ± 9.294e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

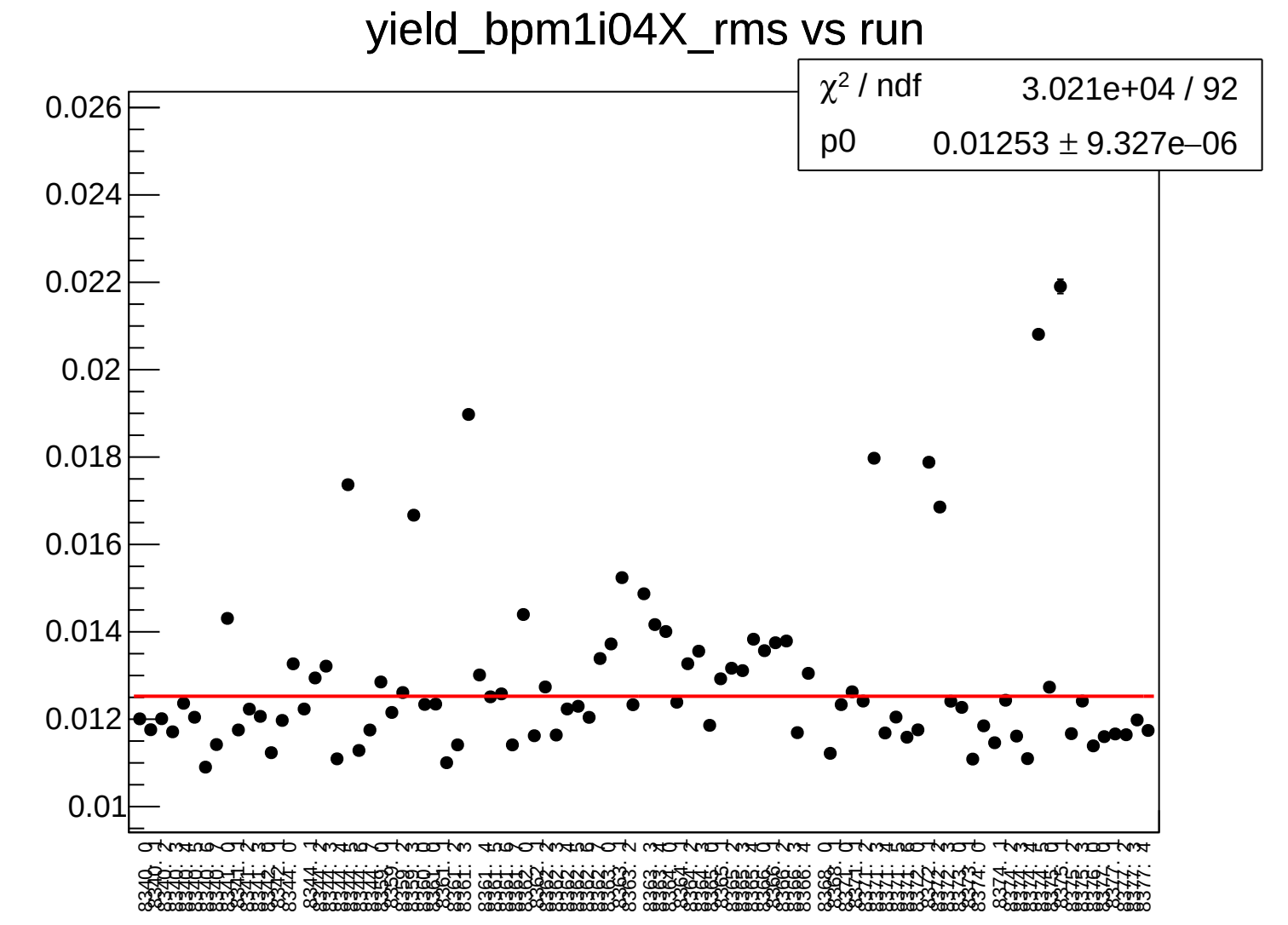

yield_bpm1i02Y_mean vs run
χ² / ndf 1.404e+06 / 92
p0 1.155 ± 9.057e−06
1.19
1.18
1.17
1.16
1.15
1.14
1.13
pull
Entries 93
Mean 927.8
Std Dev 0
400
300
200
100
0
−100
−200
−300

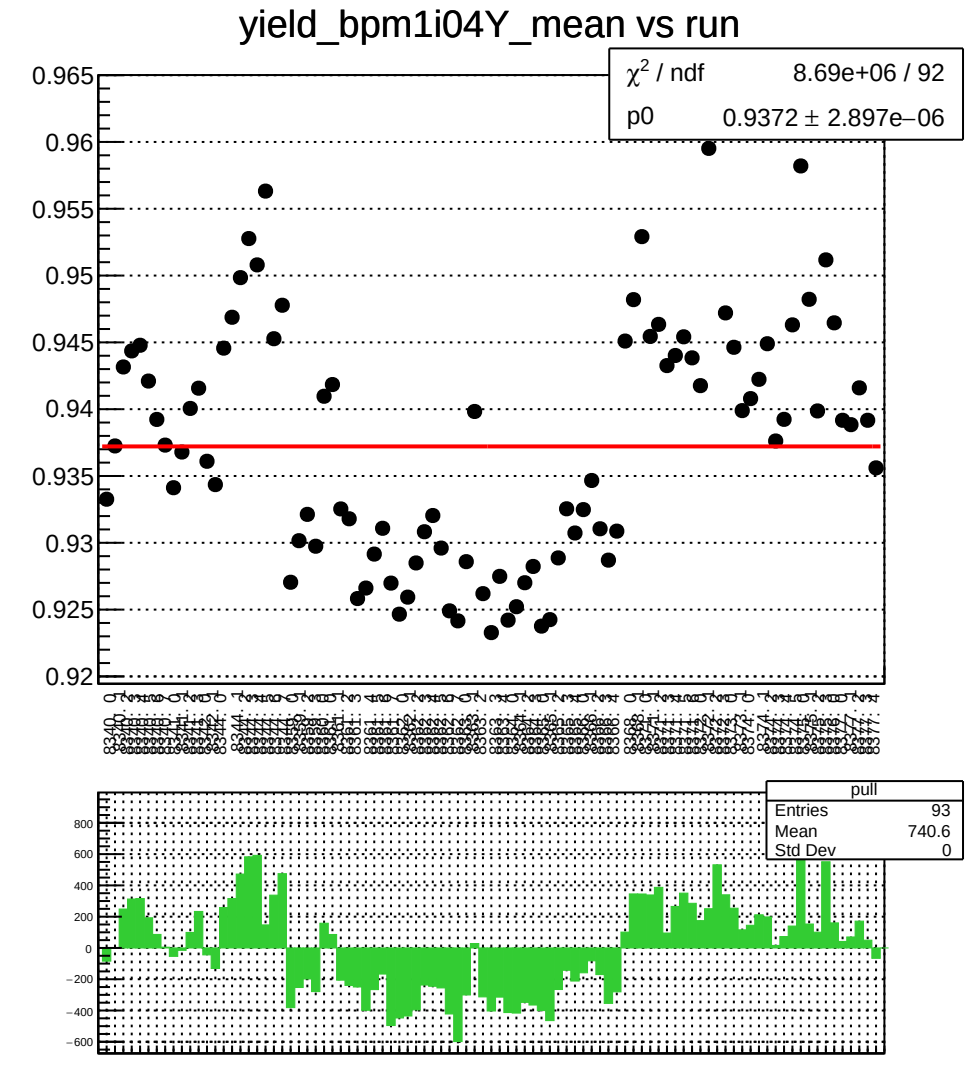

pull1D
Entries 93
Mean −0.4698
Std Dev 5.767
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

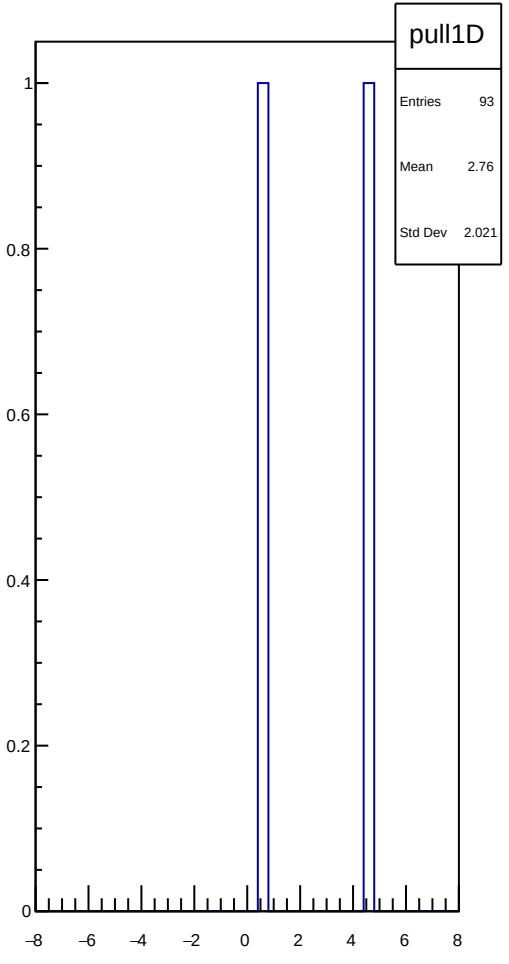

yield_bpm1i02Y_rms vs run
χ² / ndf 7623 / 92
p0 0.008654 ± 6.405e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

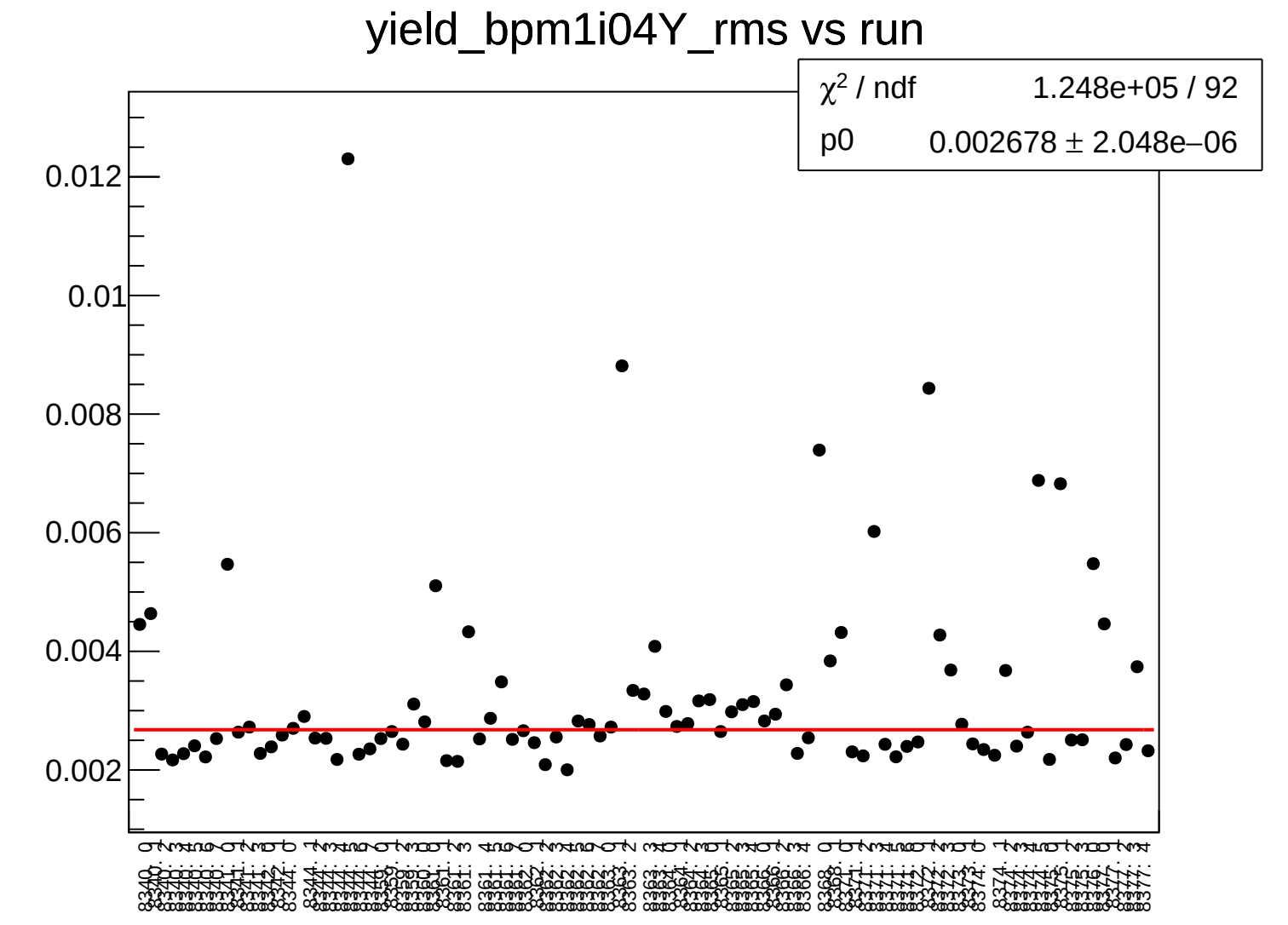

yield_bpm1i04X_mean vs run
χ² / ndf 3.624e+06 / 92
p0 0.05999 ± 1.319e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 93
Mean −484.1
Std Dev 0
800
600
400
200
0
−200

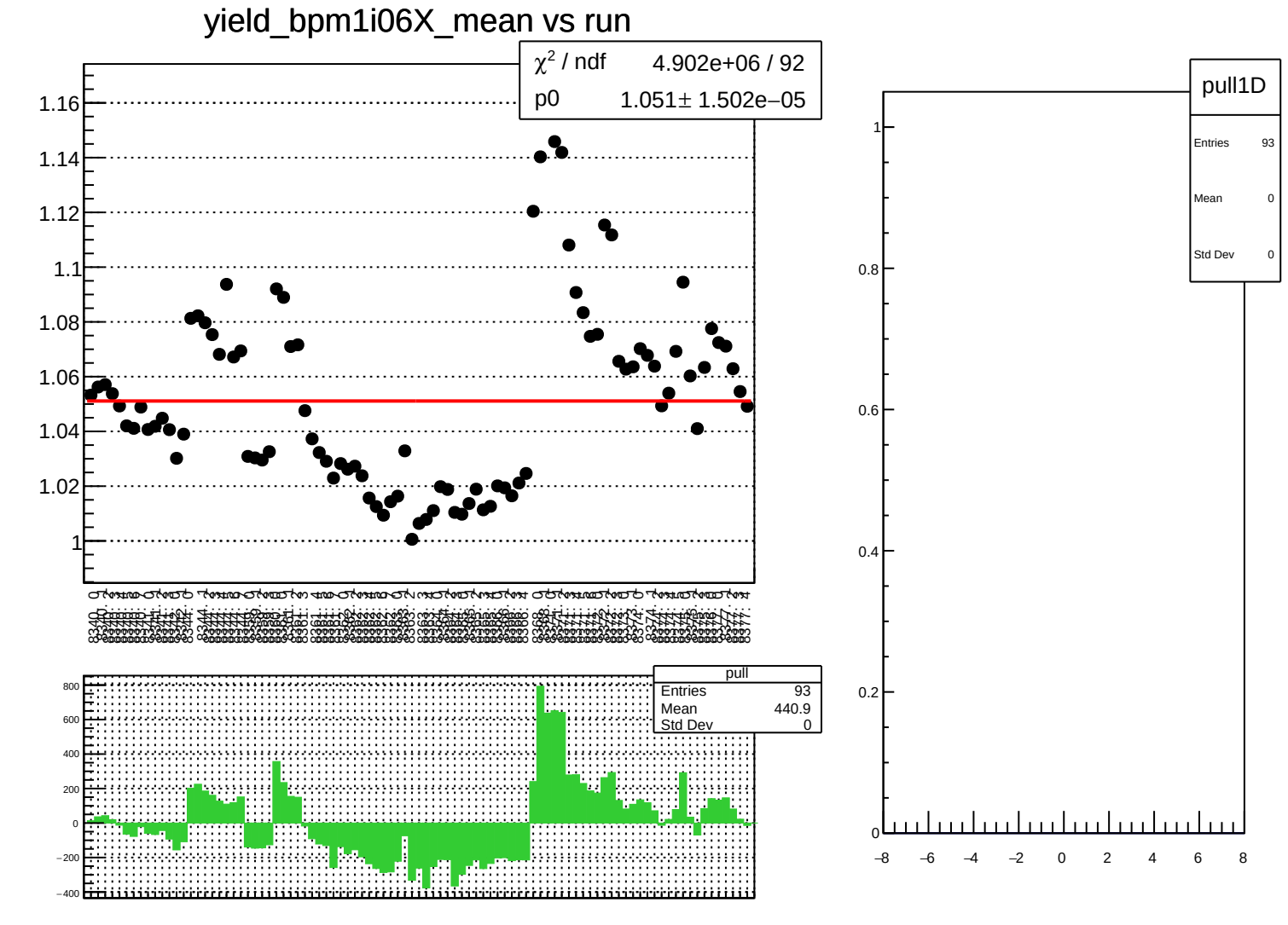

pull1D
Entries 93
Mean 0.7321
Std Dev 5.147
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

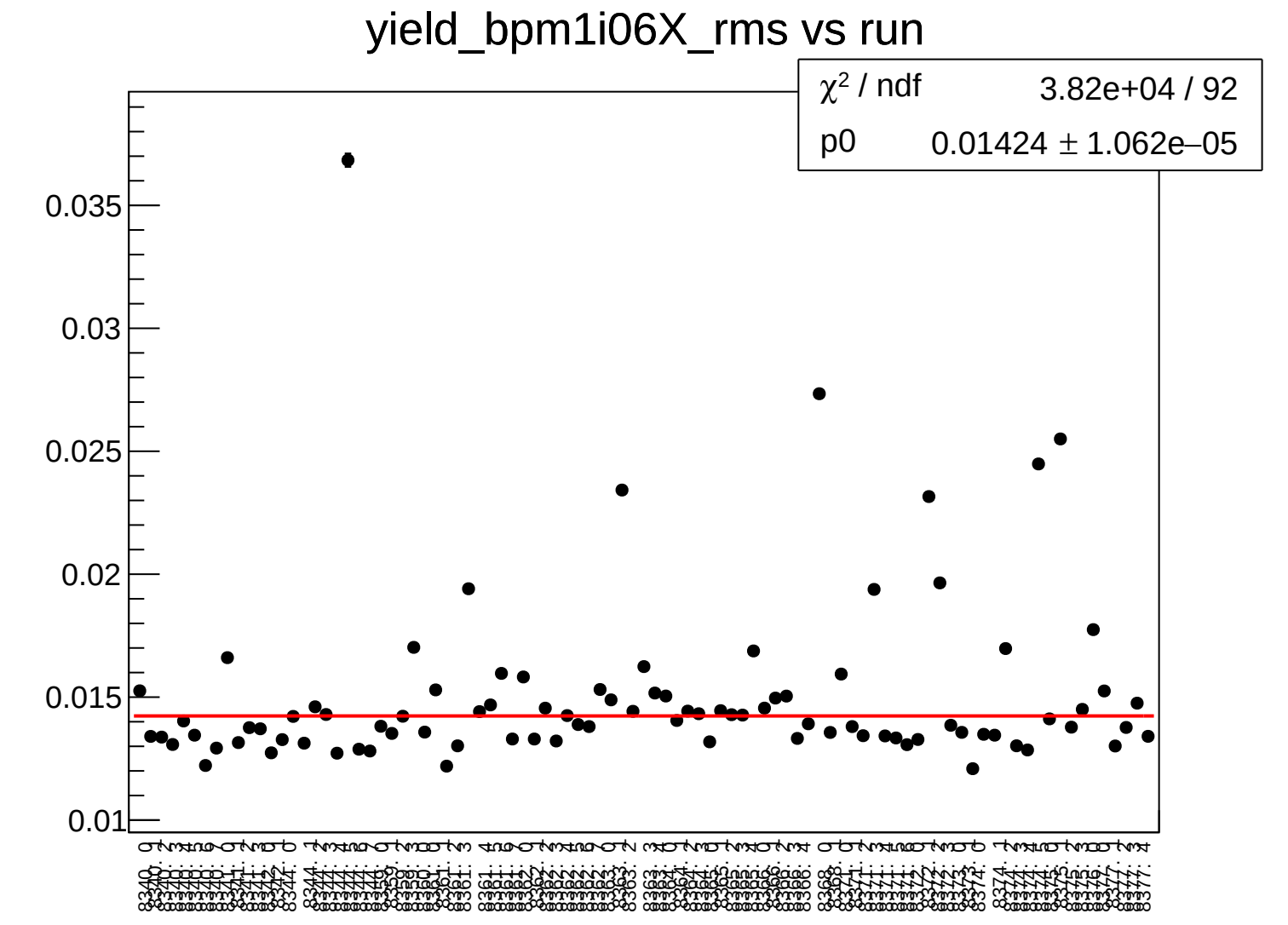

yield_bpm1i04X_rms vs run
χ² / ndf 3.021e+04 / 92
p0 0.01253 ± 9.327e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

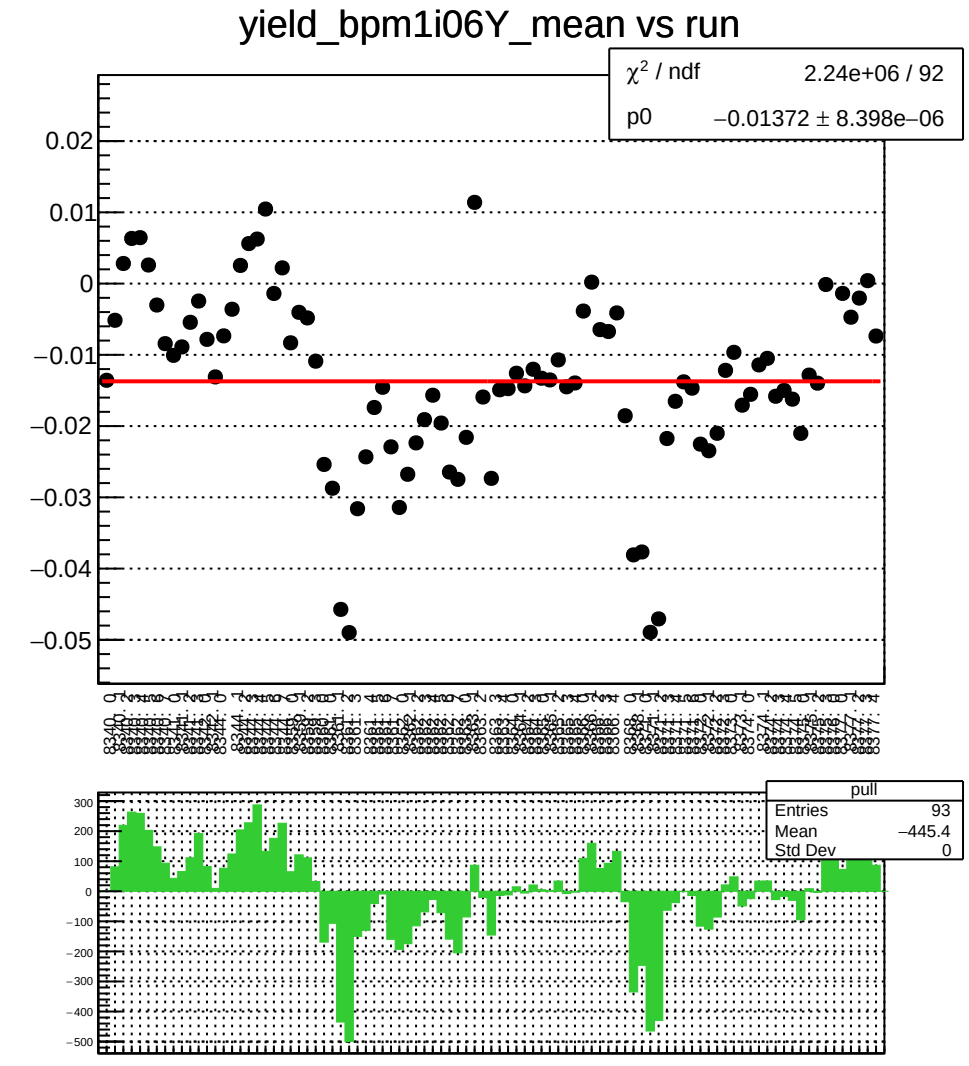

yield_bpm1i04Y_mean vs run
χ² / ndf 8.69e+06 / 92
p0 0.9372 ± 2.897e−06
0.965
0.96
0.955
0.95
0.945
0.94
0.935
0.93
0.925
0.92
pull
Entries 93
Mean 740.6
Std Dev 0
800
600
400
200
0
−200
−400
−600

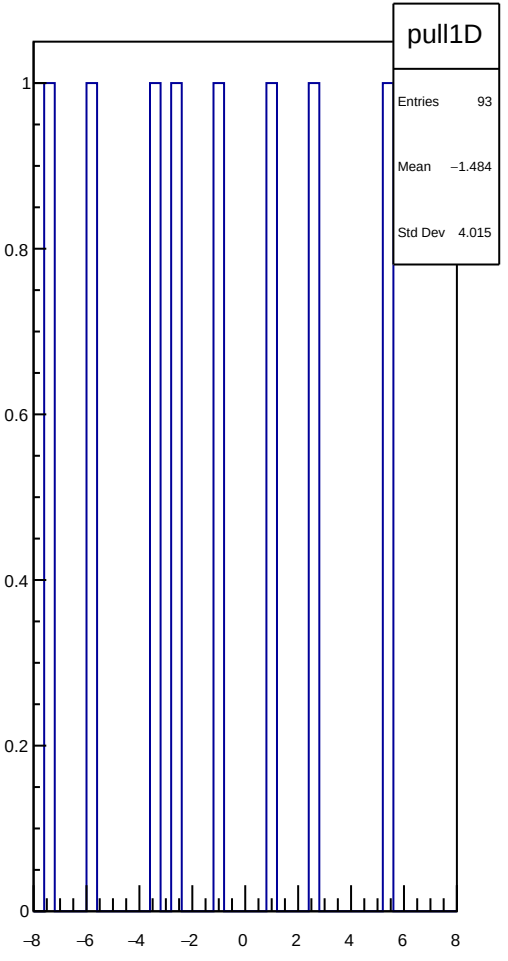

pull1D
Entries 93
Mean 2.76
Std Dev 2.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

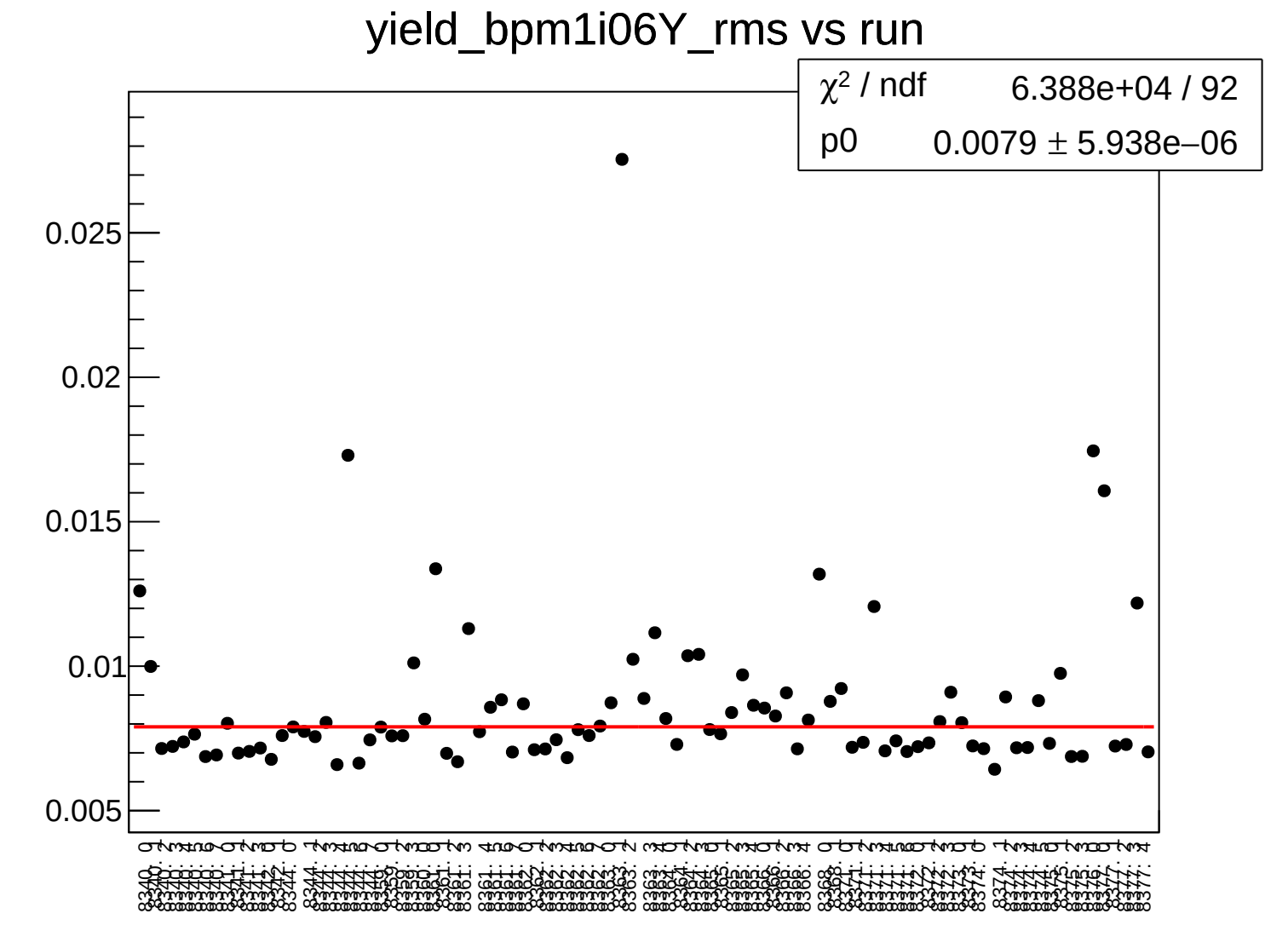

yield_bpm1i04Y_rms vs run
χ² / ndf 1.248e+05 / 92
p0 0.002678 ± 2.048e−06
0.012
0.01
0.008
0.006
0.004
0.002

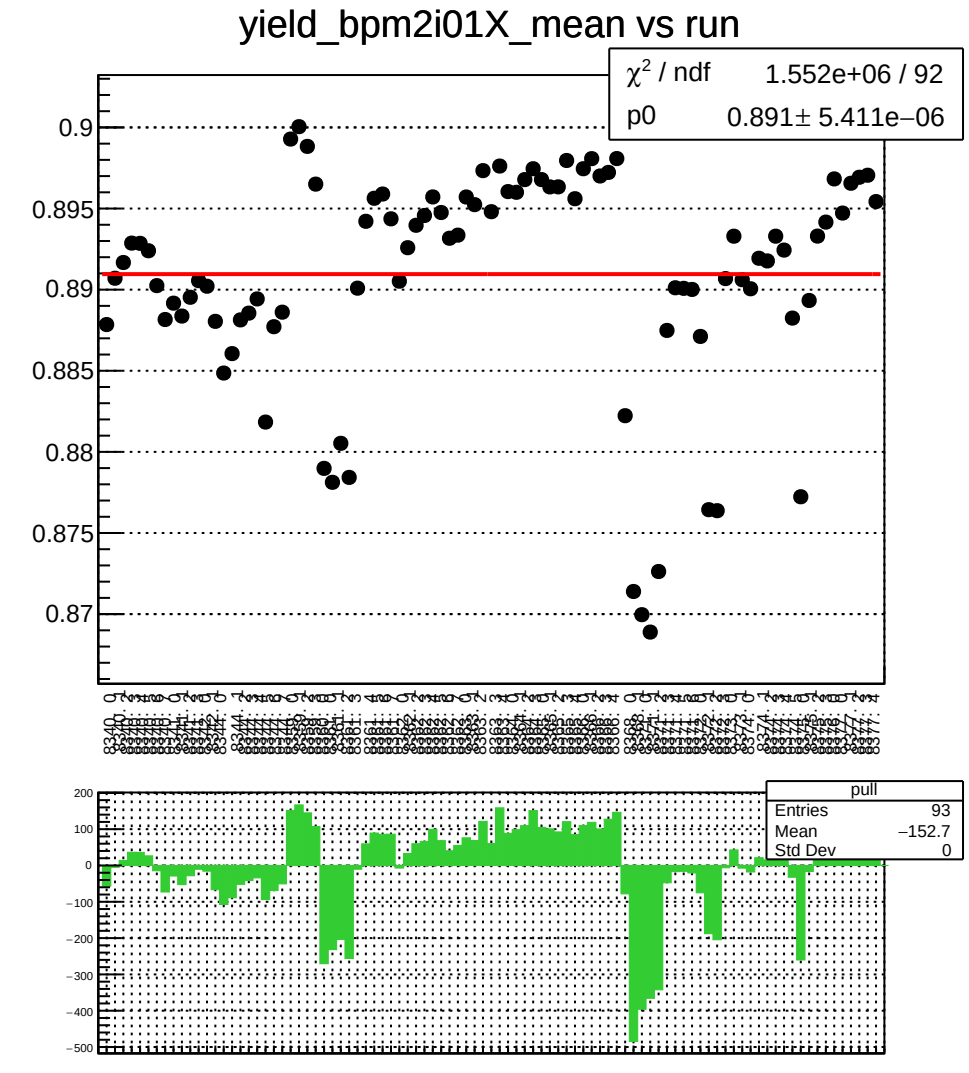

yield_bpm1i06X_mean vs run
χ² / ndf 4.902e+06 / 92
p0 1.051± 1.502e−05
1.16
1.14
1.12
1.1
1.08
1.06
1.04
1.02
1
pull
Entries 93
Mean 440.9
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

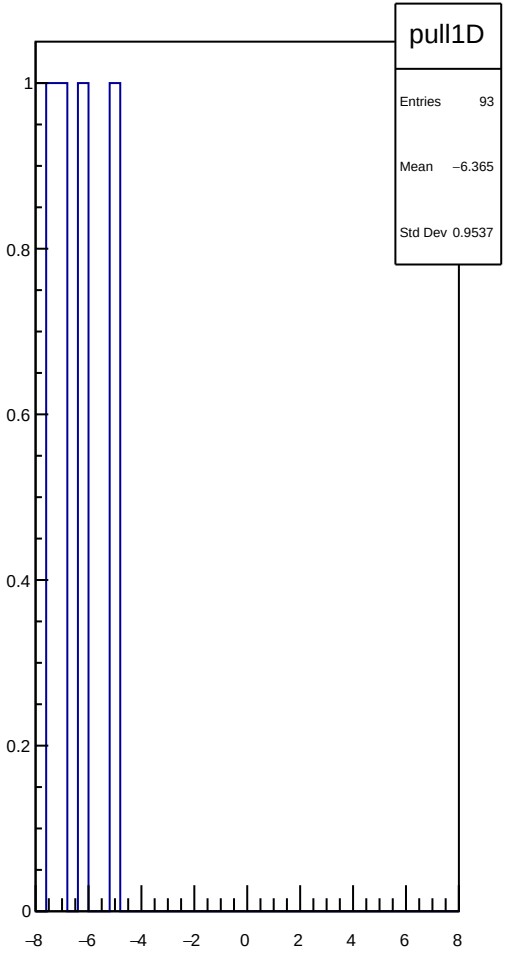

yield_bpm1i06X_rms vs run
χ² / ndf 3.82e+04 / 92
p0 0.01424 ± 1.062e−05
0.035
0.03
0.025
0.02
0.015
0.01

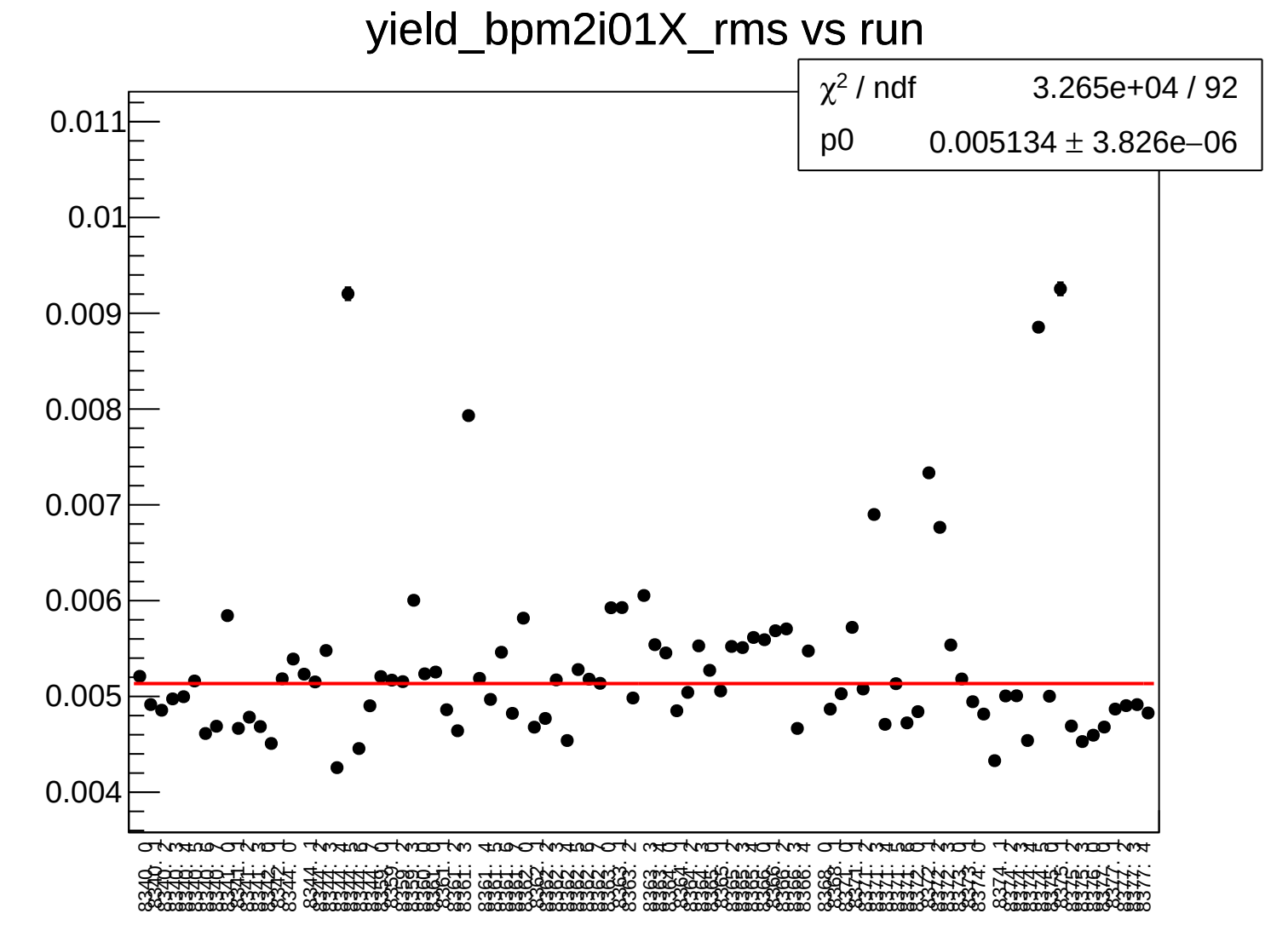

yield_bpm1i06Y_mean vs run
χ² / ndf 2.24e+06 / 92
p0 −0.01372 ± 8.398e−06
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 93
Mean −445.4
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

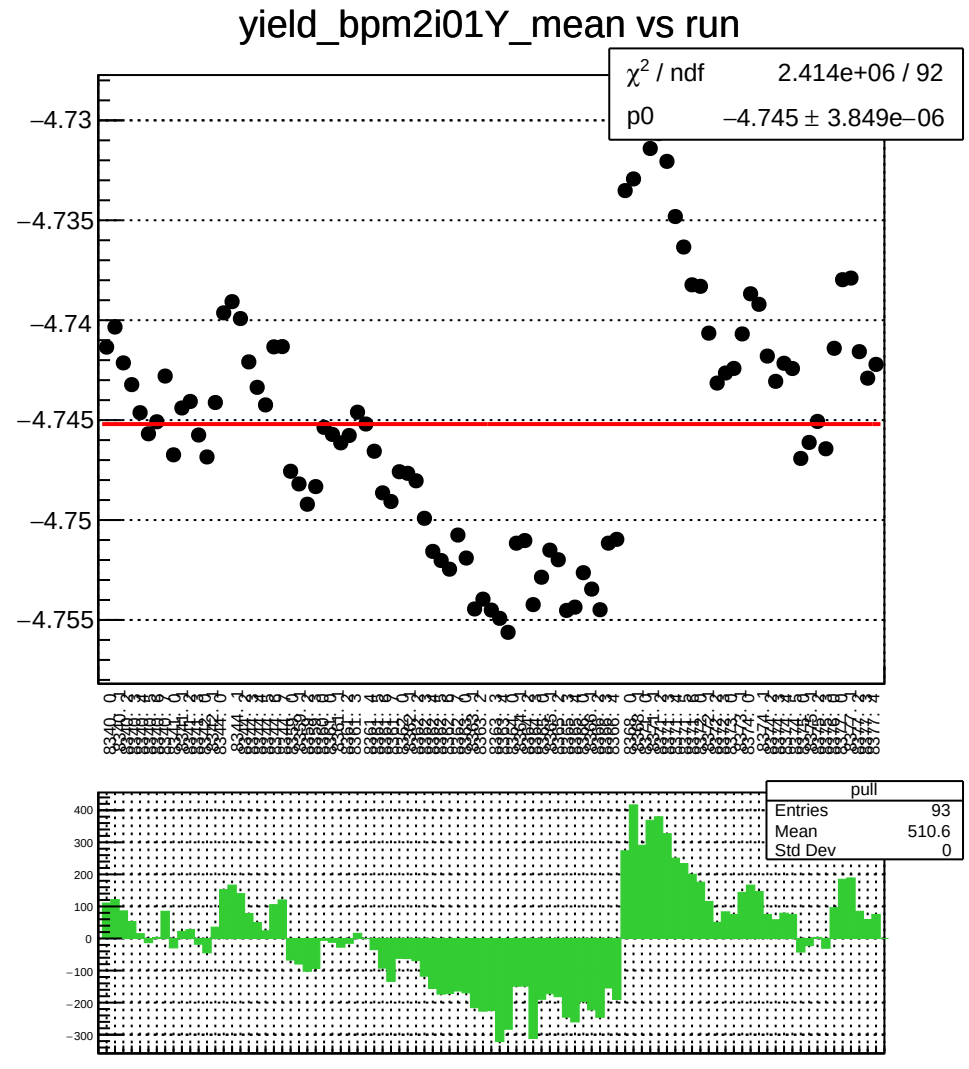

pull1D
Entries 93
Mean −1.484
Std Dev 4.015
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

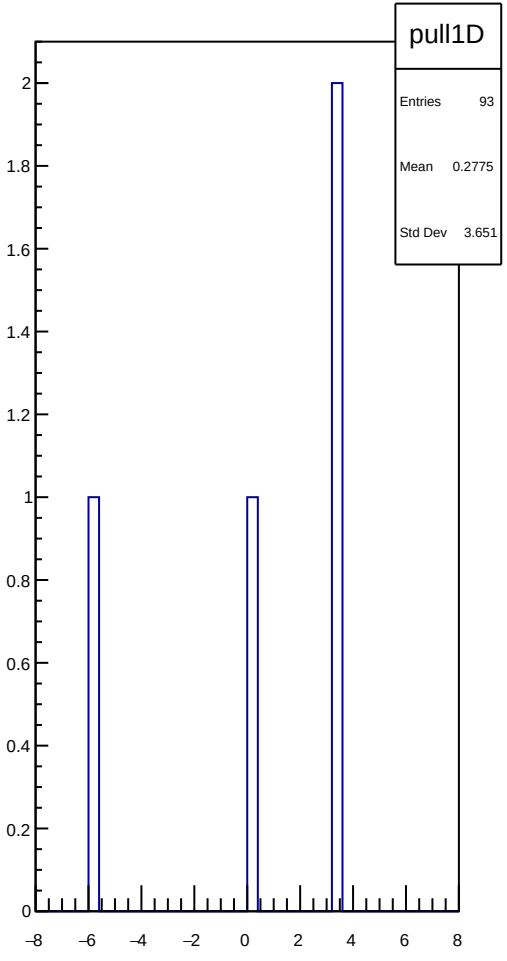

yield_bpm1i06Y_rms vs run
χ² / ndf 6.388e+04 / 92
p0 0.0079 ± 5.938e−06
0.025
0.02
0.015
0.01
0.005

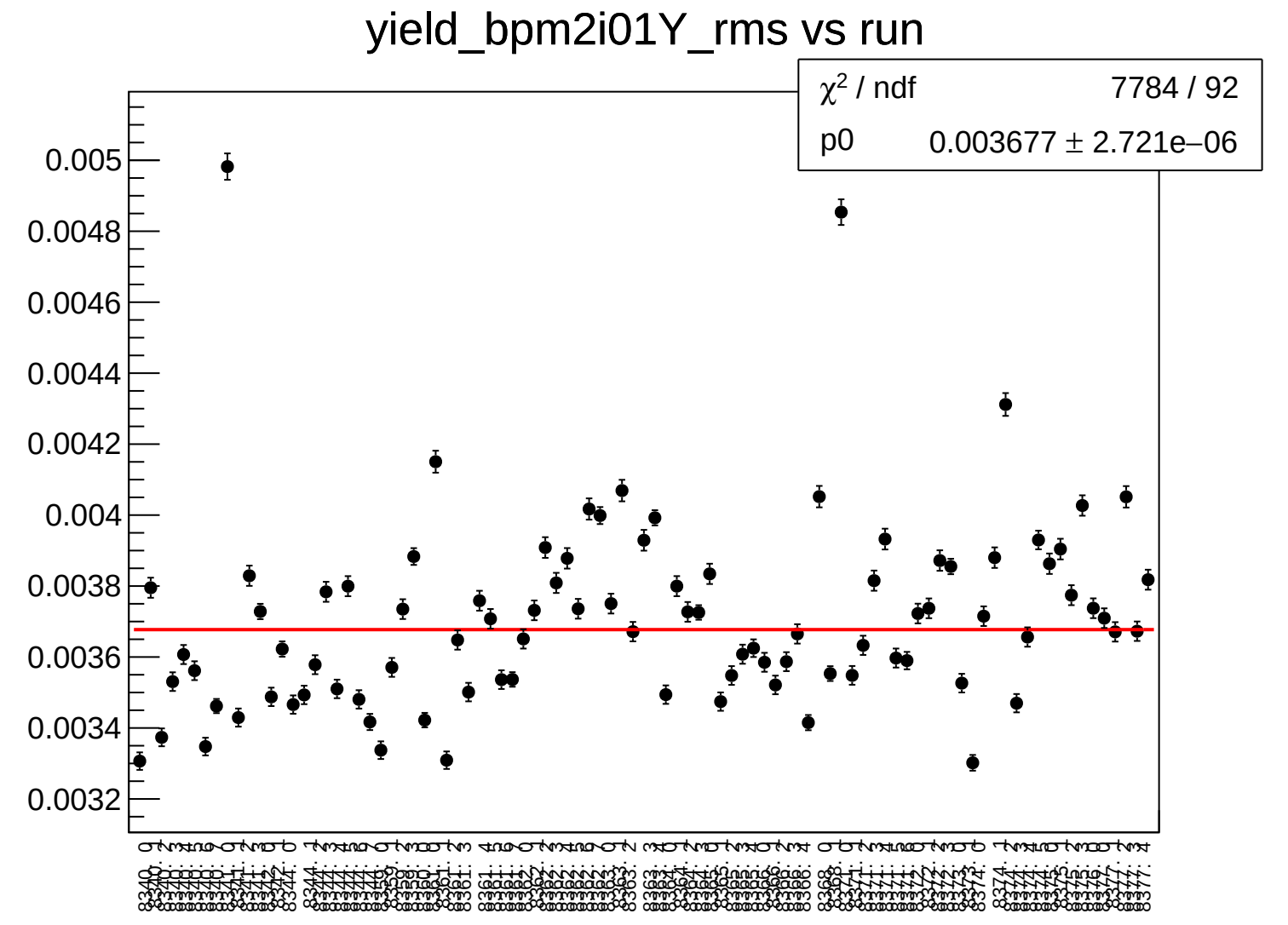

yield_bpm2i01X_mean vs run
χ² / ndf 1.552e+06 / 92
p0 0.891± 5.411e−06
0.9
0.895
0.89
0.885
0.88
0.875
0.87
pull
Entries 93
Mean −152.7
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

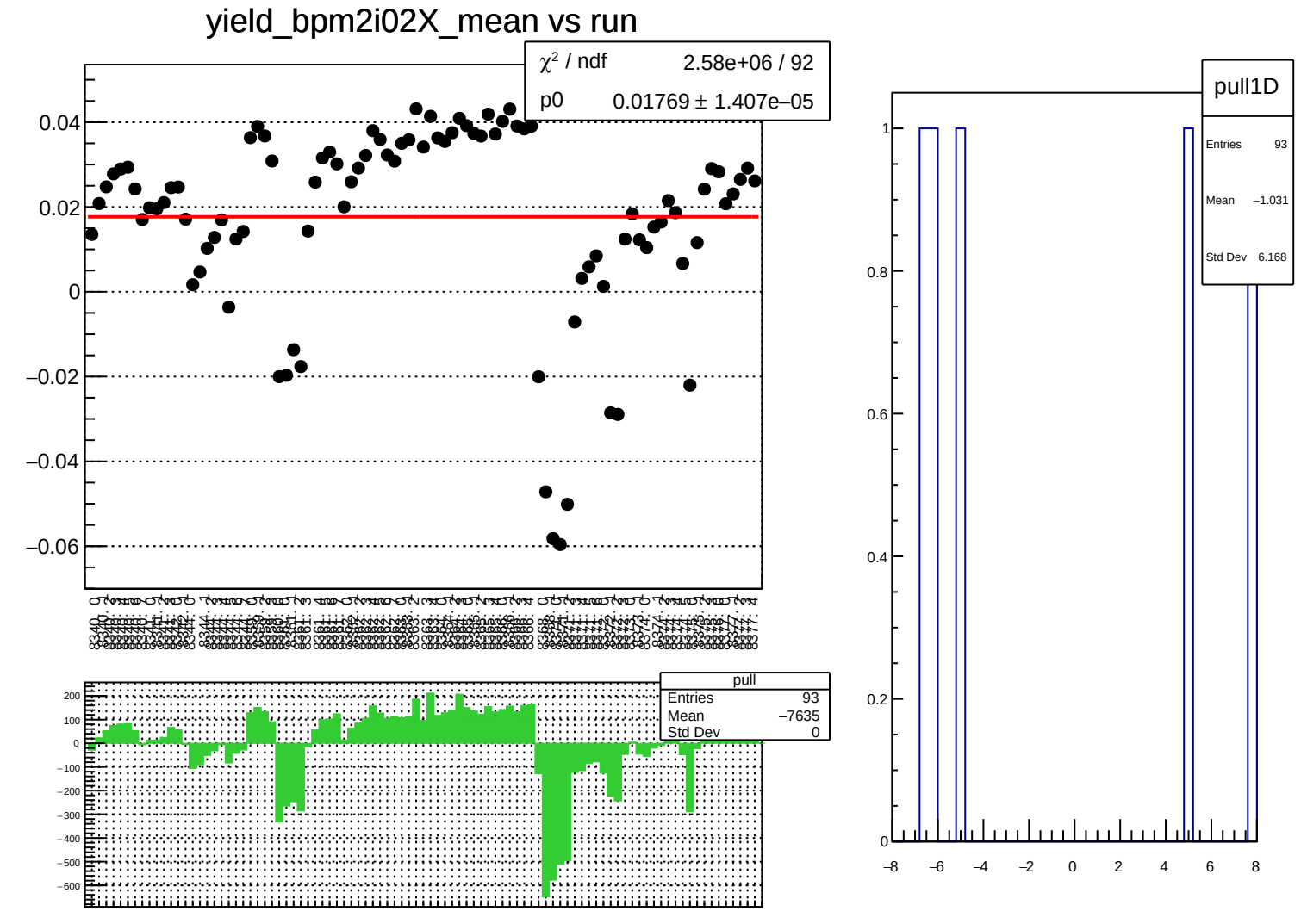

pull1D
Entries 93
Mean −6.365
Std Dev 0.9537
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

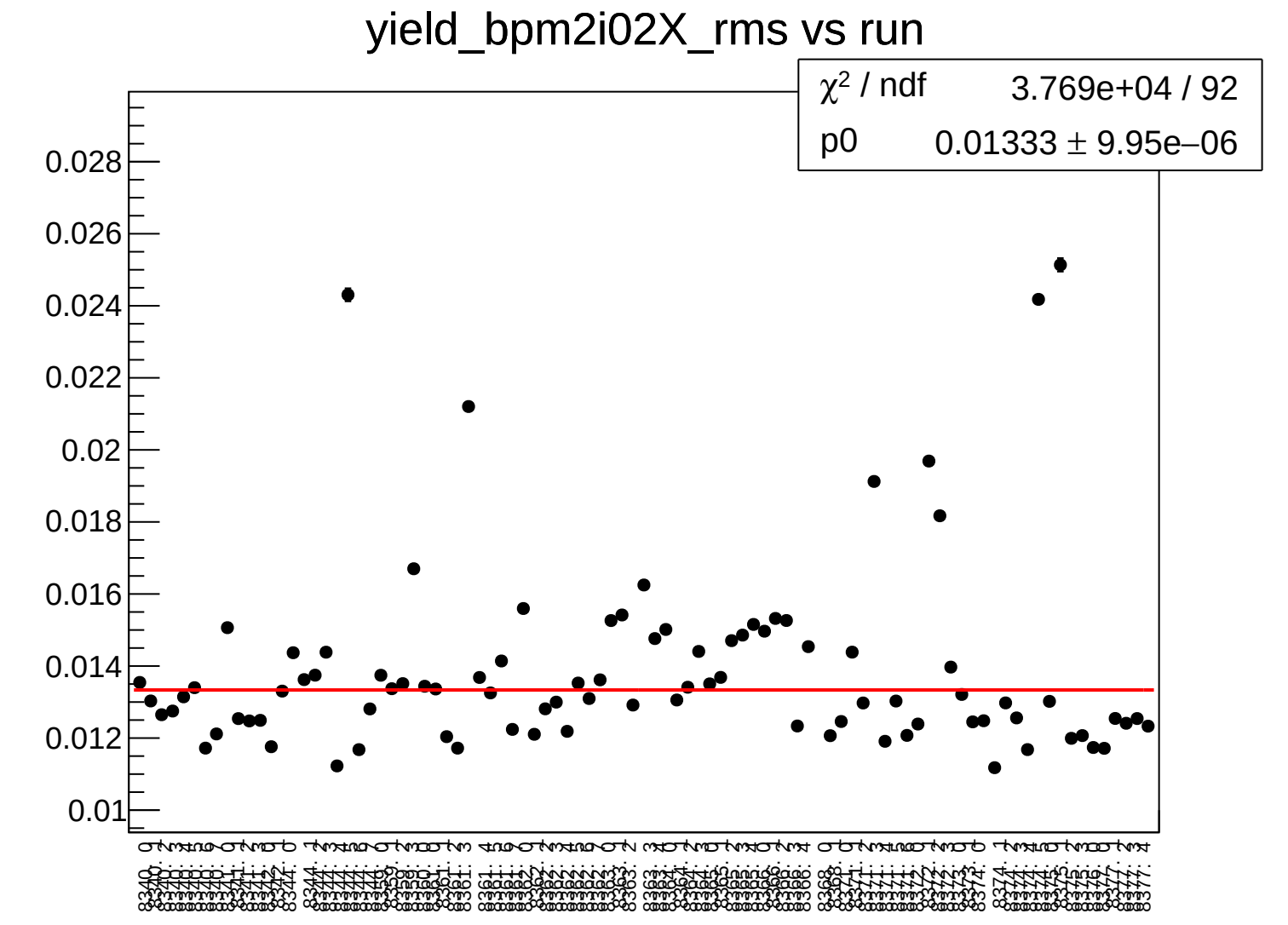

yield_bpm2i01X_rms vs run
χ² / ndf 3.265e+04 / 92
p0 0.005134 ± 3.826e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

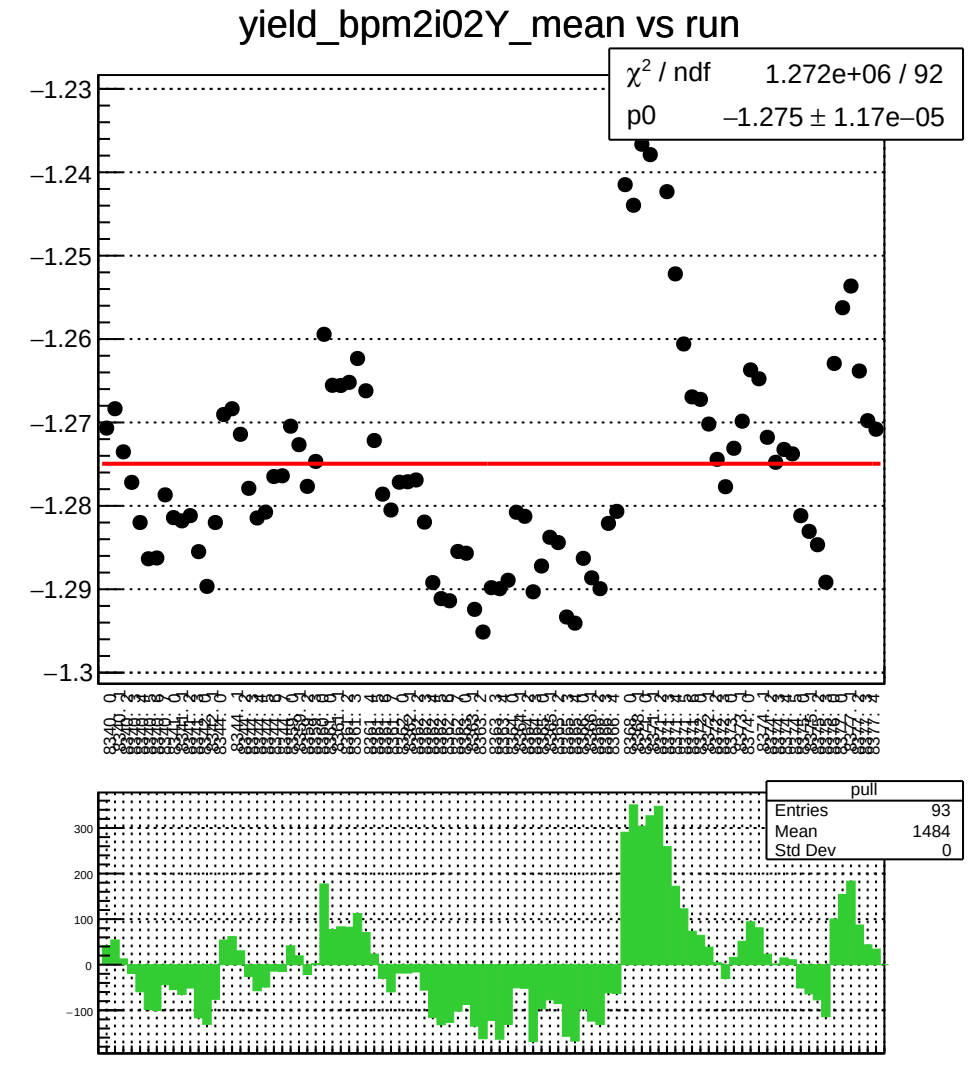

yield_bpm2i01Y_mean vs run
χ² / ndf 2.414e+06 / 92
p0 −4.745 ± 3.849e−06
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 93
Mean 510.6
Std Dev 0
400
300
200
100
0
−100
−200
−300

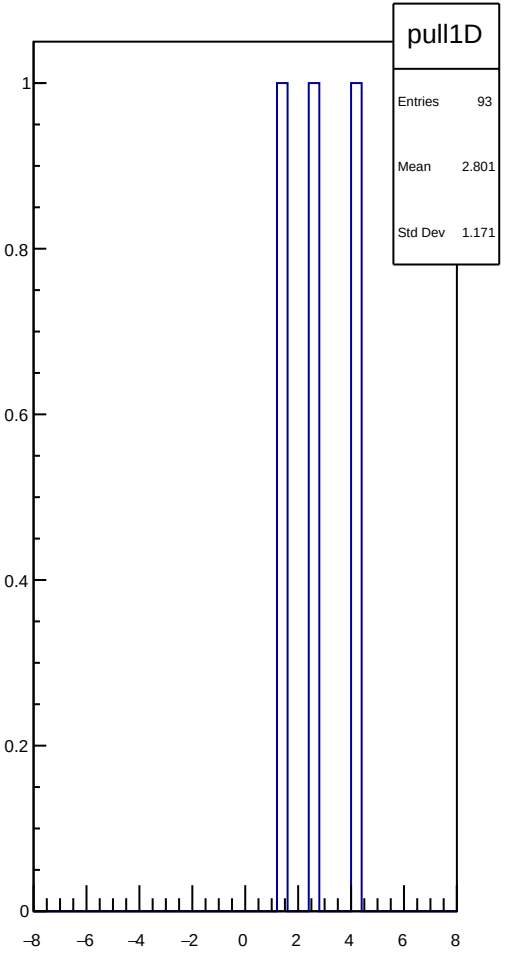

pull1D
Entries 93
Mean 0.2775
Std Dev 3.651
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

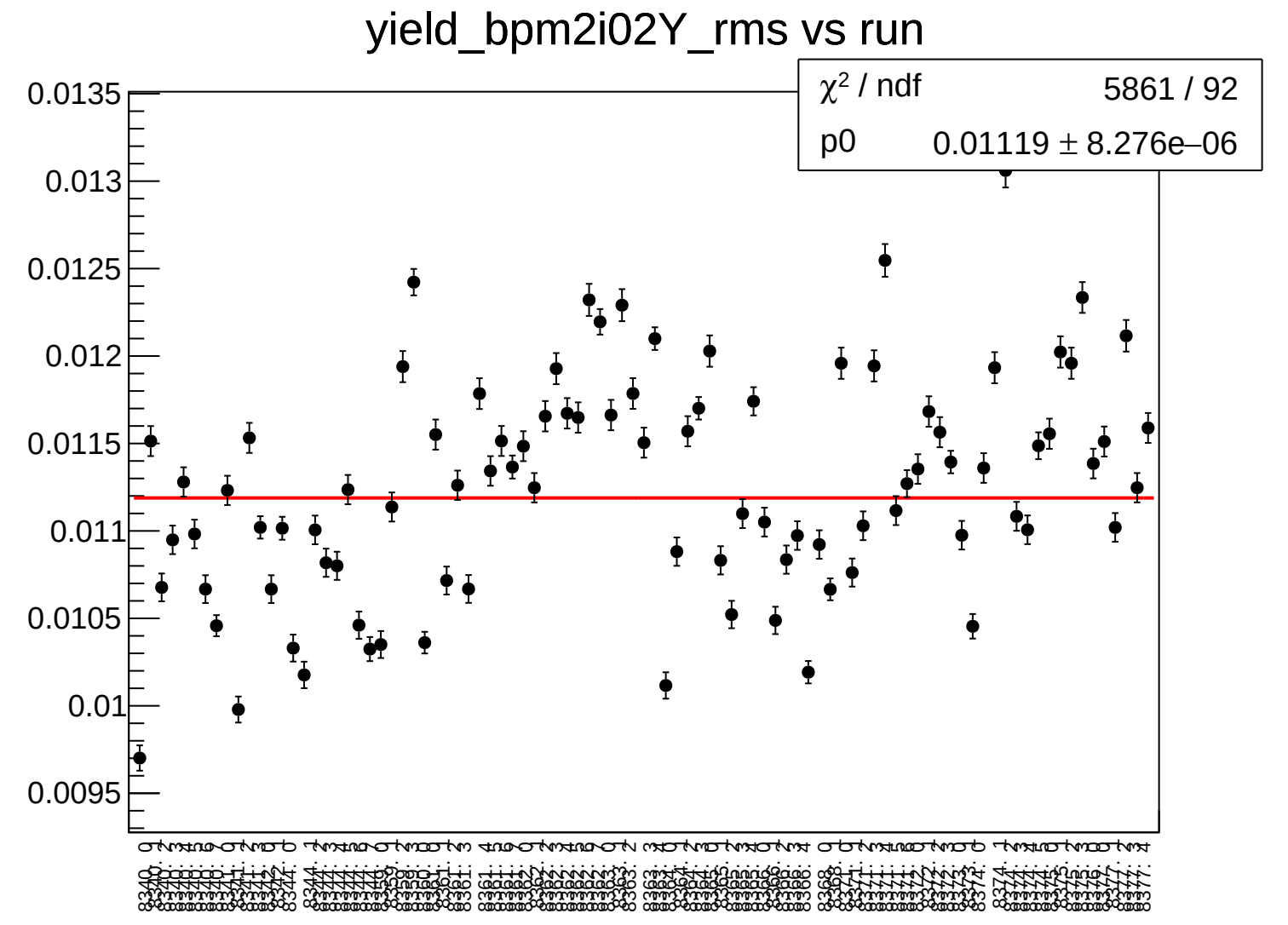

yield_bpm2i01Y_rms vs run
χ² / ndf 7784 / 92
p0 0.003677 ± 2.721e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

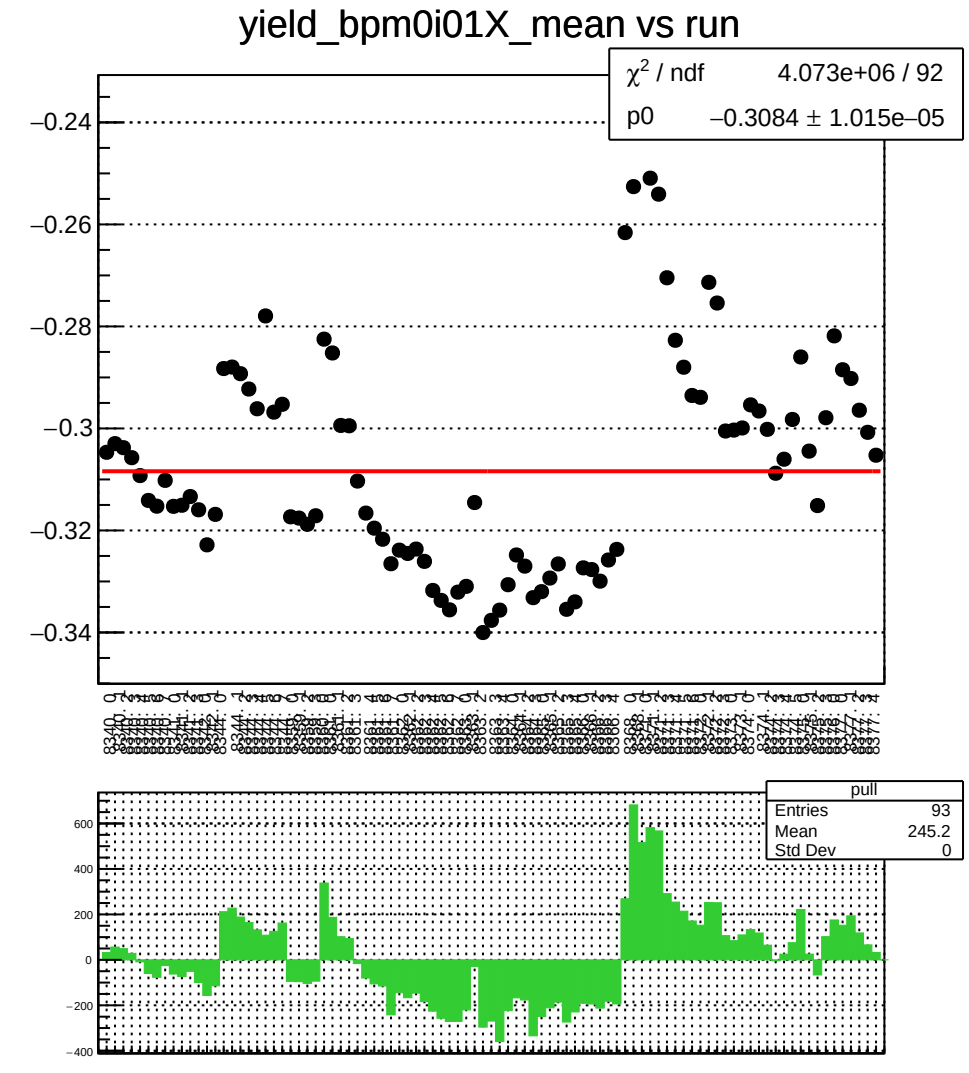

yield_bpm2i02X_mean vs run
χ² / ndf 2.58e+06 / 92
p0 0.01769 ± 1.407e−05
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −7635
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 93
Mean −1.031
Std Dev 6.168
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

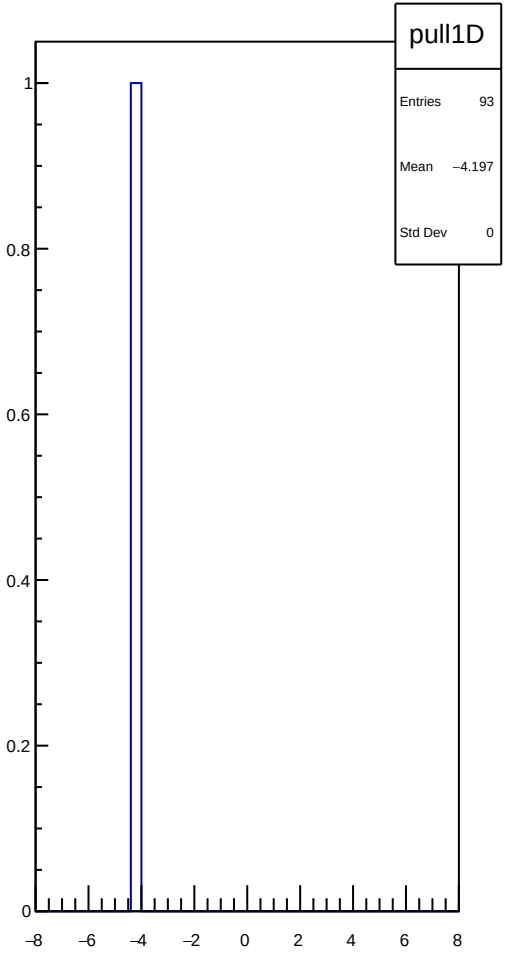

yield_bpm2i02X_rms vs run
χ² / ndf 3.769e+04 / 92
p0 0.01333 ± 9.95e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

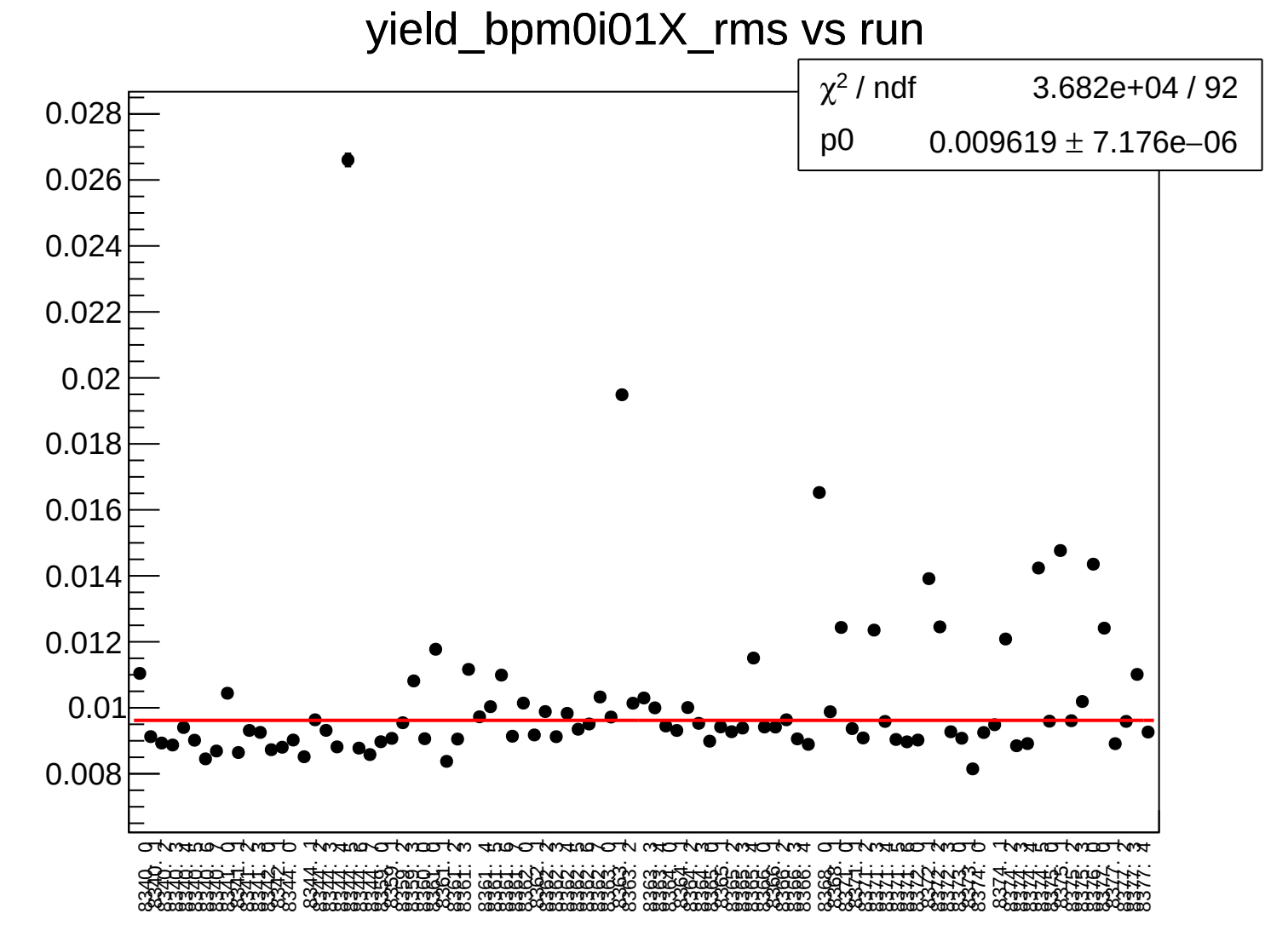

yield_bpm2i02Y_mean vs run
χ² / ndf 1.272e+06 / 92
p0 −1.275 ± 1.17e−05
−1.23
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 93
Mean 1484
Std Dev 0
300
200
100
0
−100

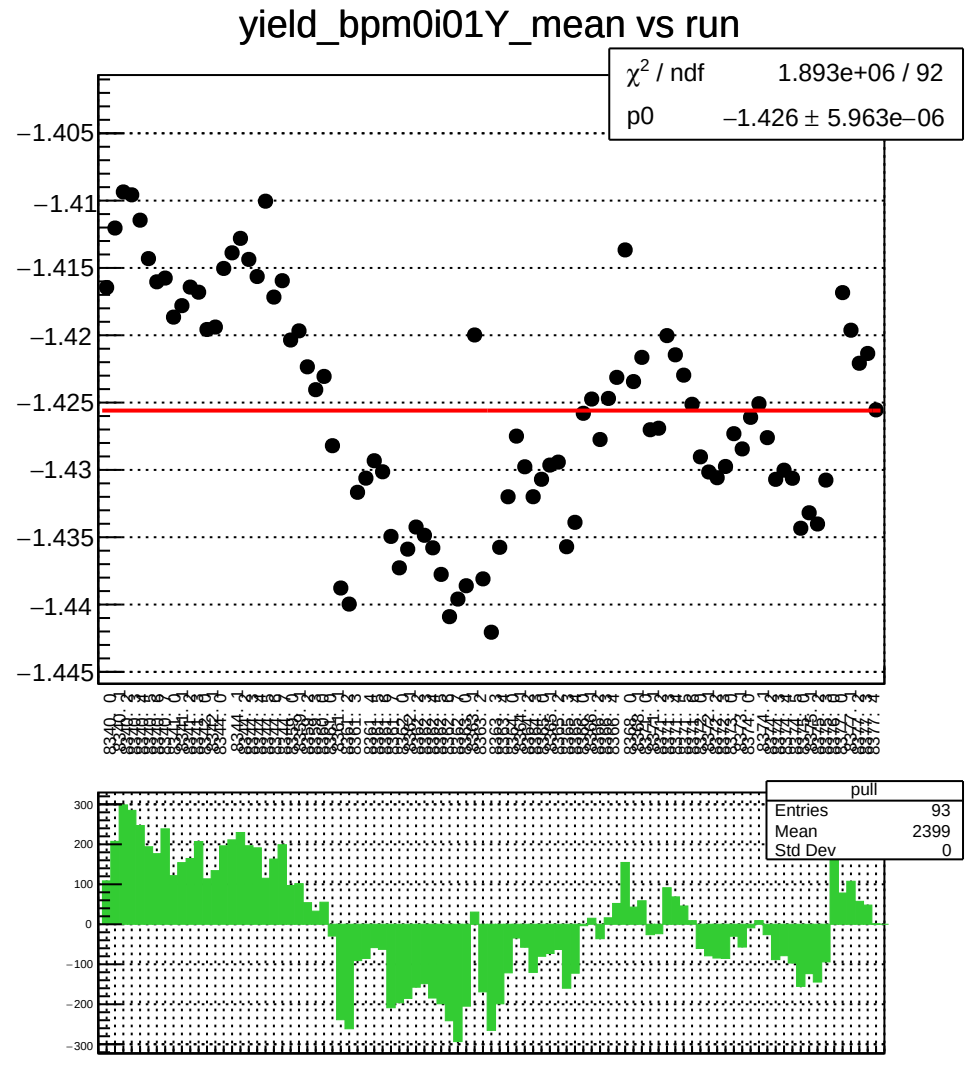

pull1D
Entries 93
Mean 2.801
Std Dev 1.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

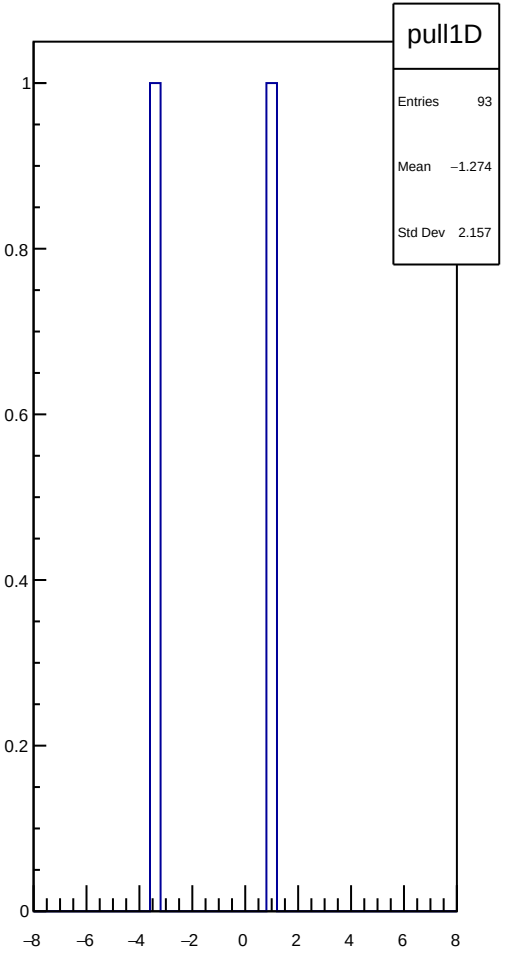

yield_bpm2i02Y_rms vs run
χ² / ndf 5861 / 92
p0 0.01119 ± 8.276e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

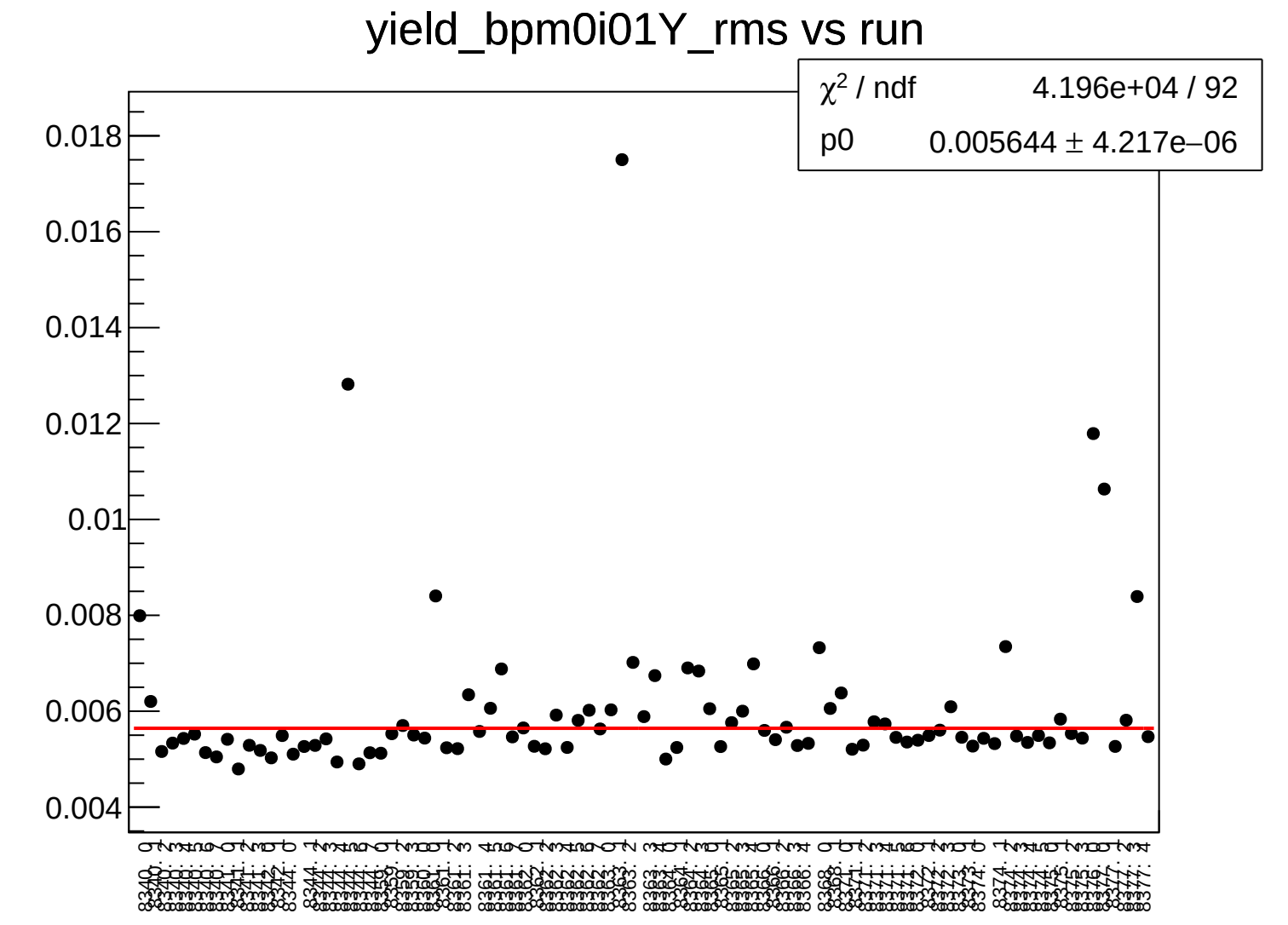

yield_bpm0i01X_mean vs run
χ² / ndf 4.073e+06 / 92
p0 −0.3084 ± 1.015e−05
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 93
Mean 245.2
Std Dev 0
600
400
200
0
−200
−400

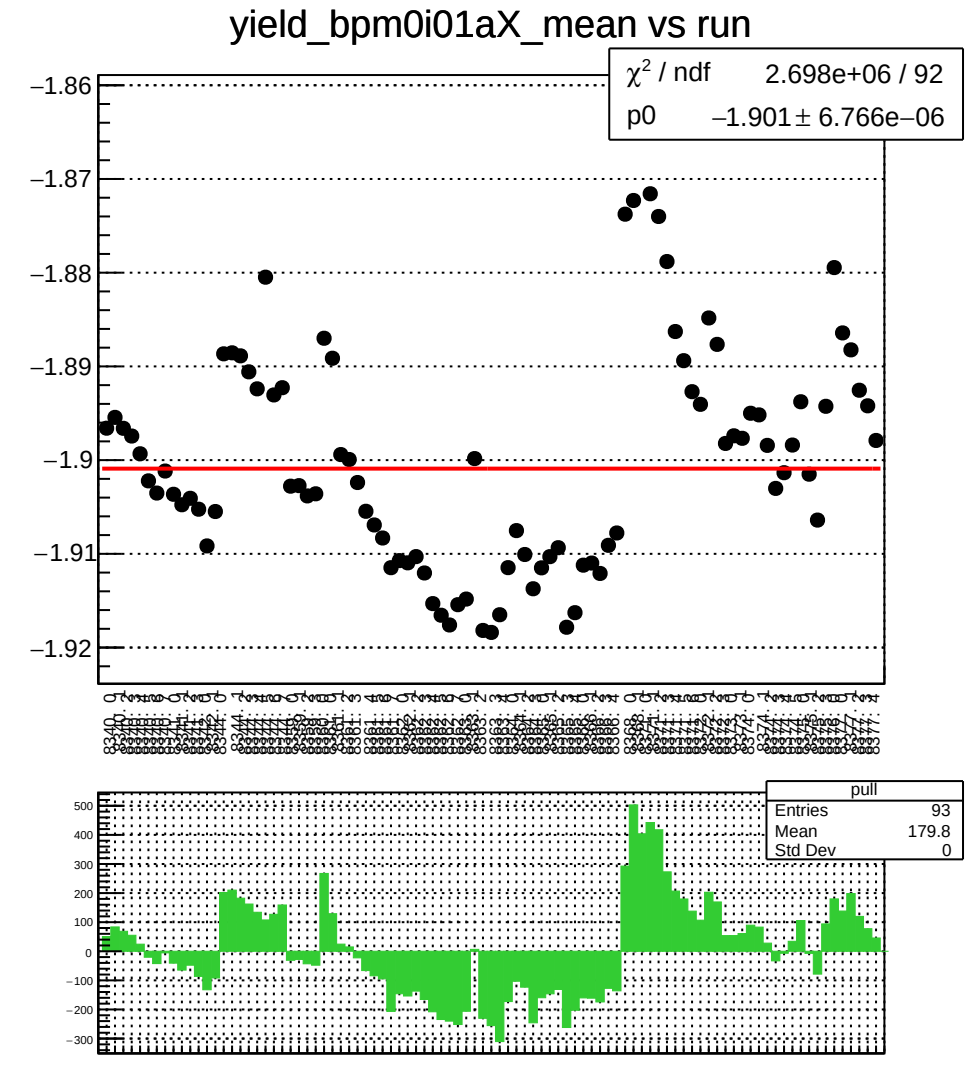

pull1D
Entries 93
Mean −4.197
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

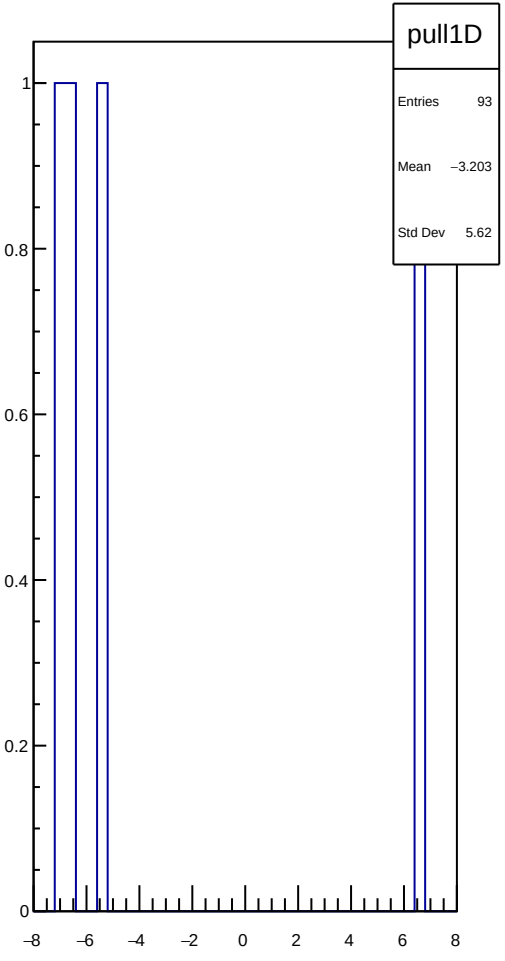

yield_bpm0i01X_rms vs run
χ² / ndf 3.682e+04 / 92
p0 0.009619 ± 7.176e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

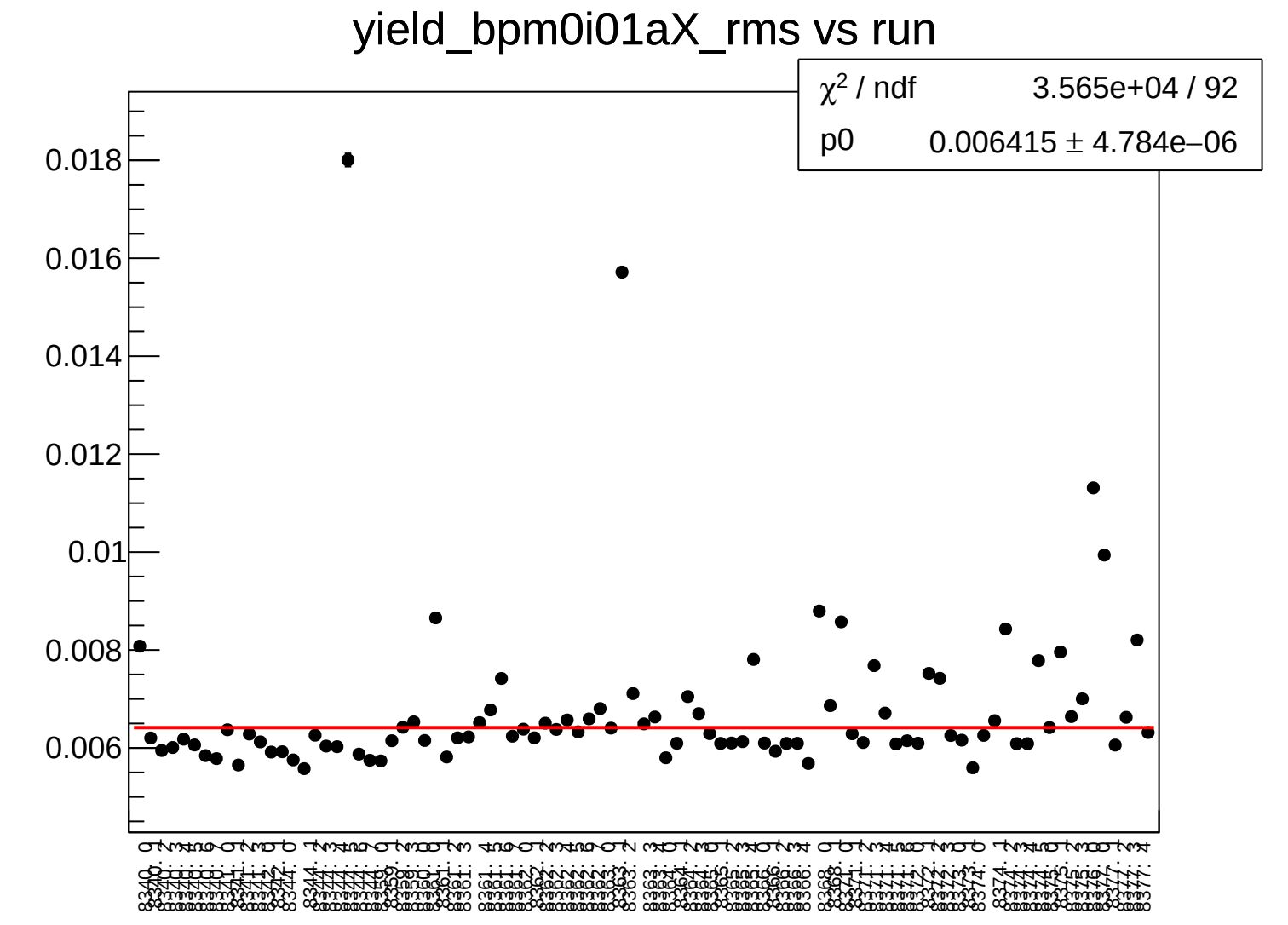

yield_bpm0i01Y_mean vs run
χ² / ndf 1.893e+06 / 92
p0 −1.426 ± 5.963e−06
−1.405
−1.41
−1.415
−1.42
−1.425
−1.43
−1.435
−1.44
−1.445
pull
Entries 93
Mean 2399
Std Dev 0
300
200
100
0
−100
−200
−300

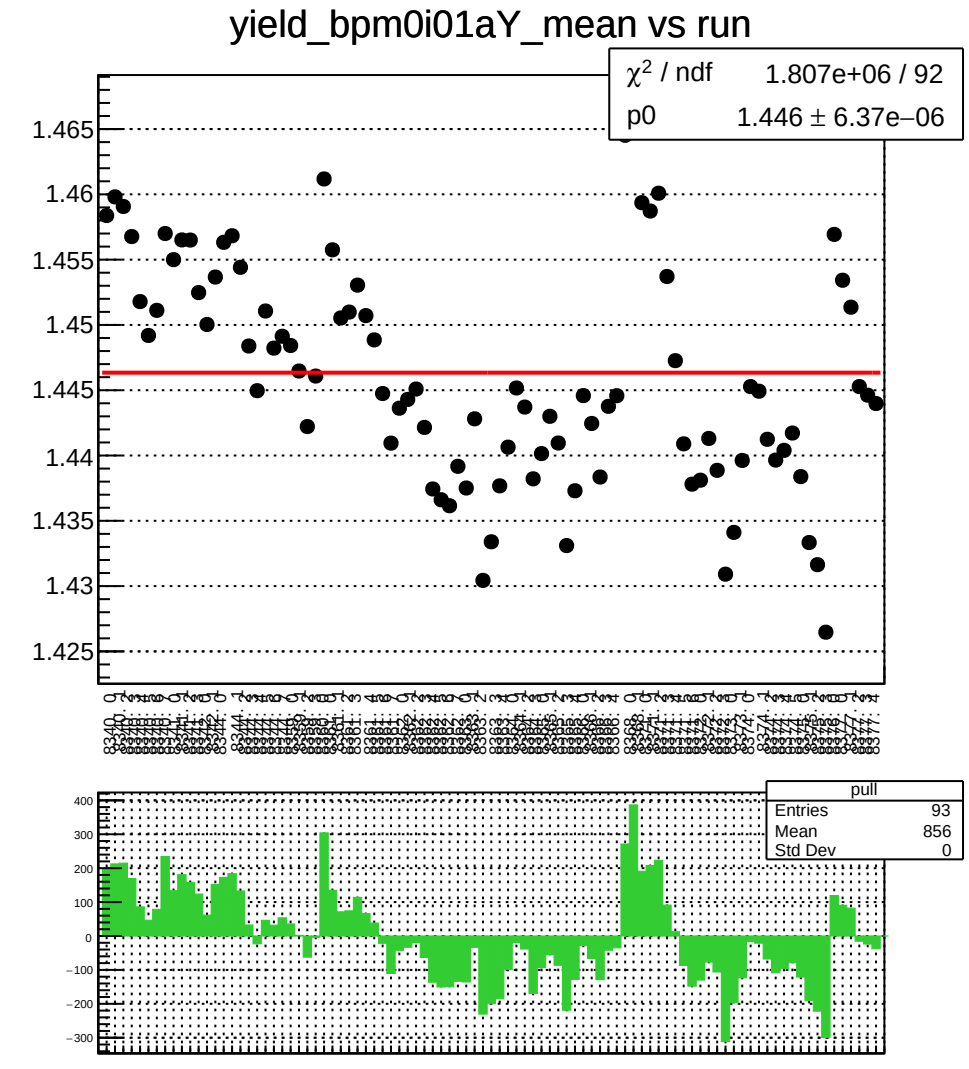

pull1D
Entries 93
Mean −1.274
Std Dev 2.157
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

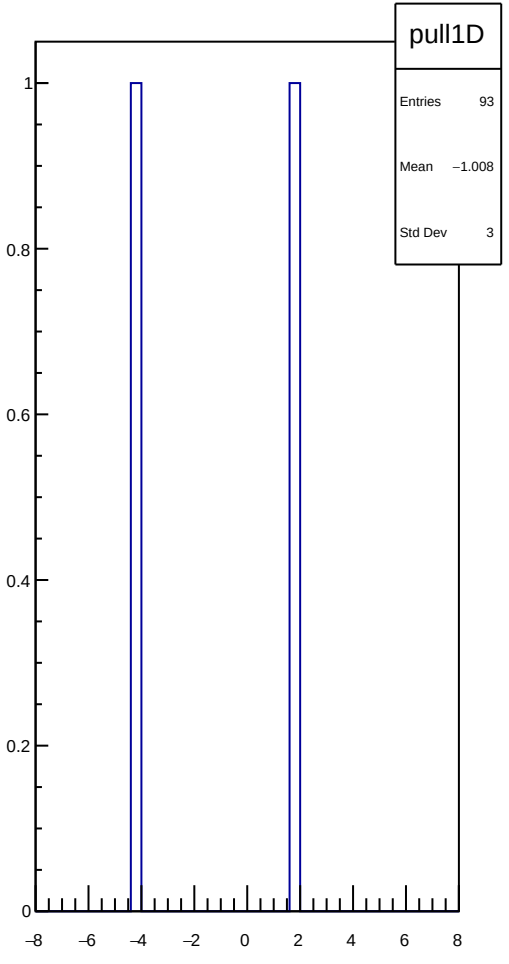

yield_bpm0i01Y_rms vs run
χ^2 / ndf 4.196e+04 / 92
p0 0.005644 ± 4.217e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

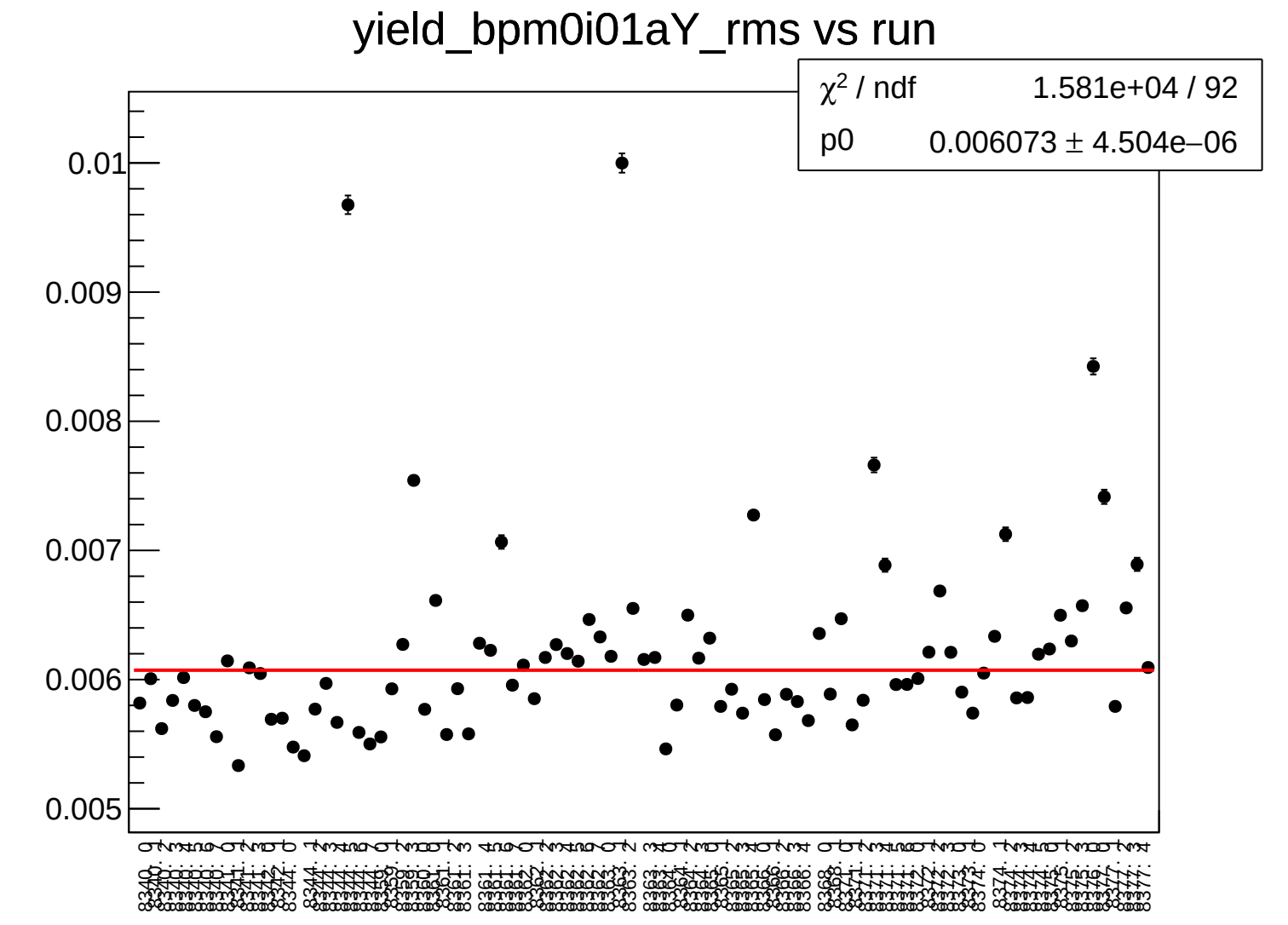

yield_bpm0i01aX_mean vs run
χ² / ndf 2.698e+06 / 92
p0 −1.901 ± 6.766e−06
−1.86
−1.87
−1.88
−1.89
−1.9
−1.91
−1.92
pull
Entries 93
Mean 179.8
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

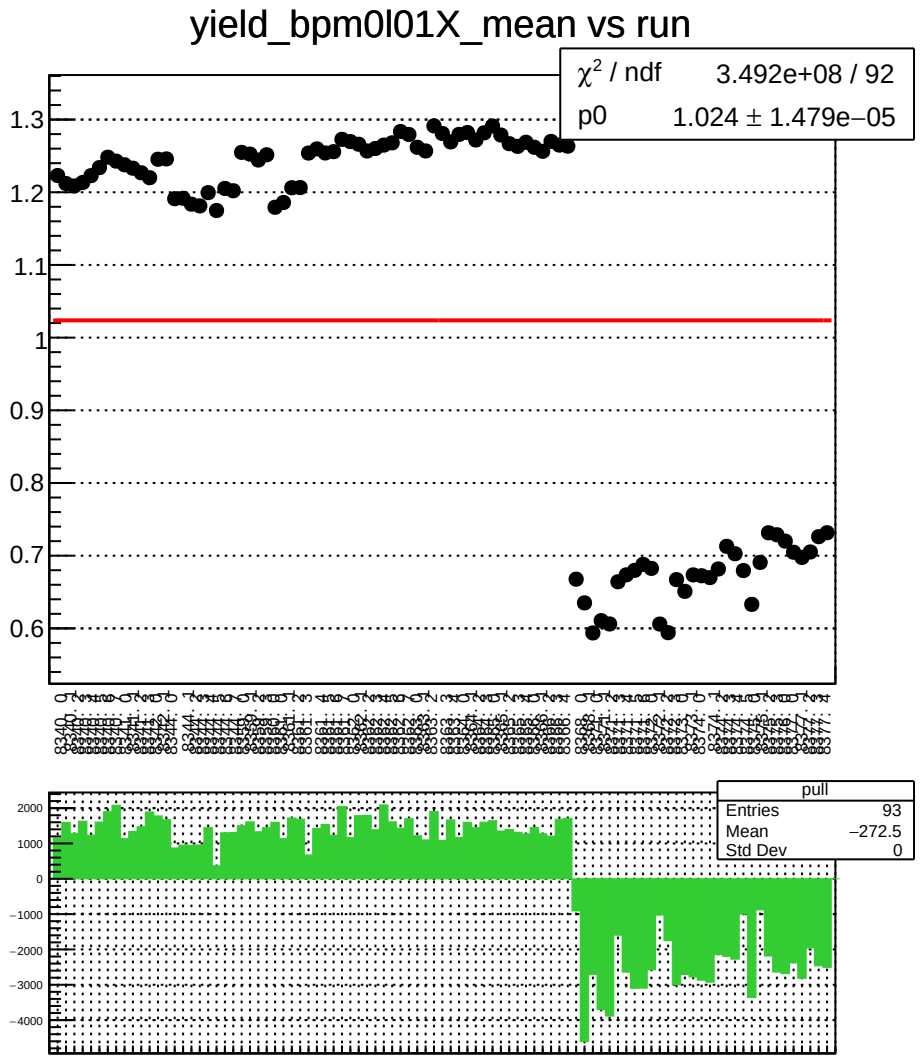

pull1D
Entries 93
Mean −3.203
Std Dev 5.62
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

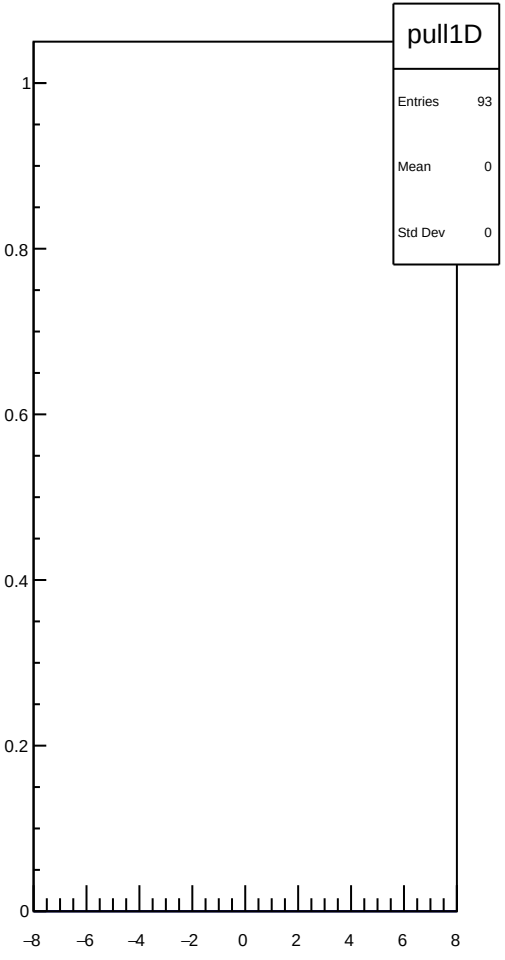

yield_bpm0i01aX_rms vs run
χ² / ndf 3.565e+04 / 92
p0 0.006415 ± 4.784e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

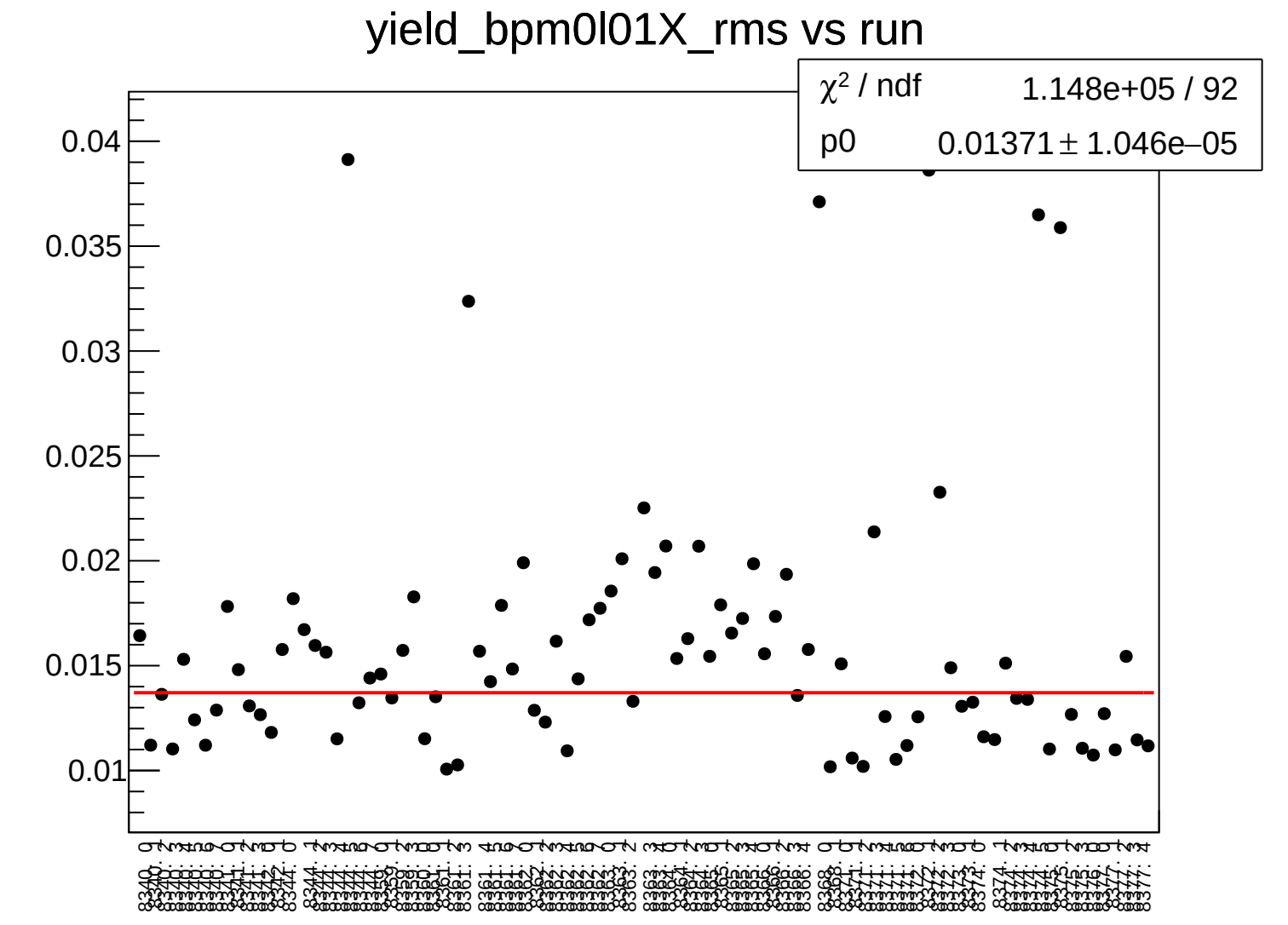

yield_bpm0i01aY_mean vs run
χ² / ndf 1.807e+06 / 92
p0 1.446 ± 6.37e−06
1.465
1.46
1.455
1.45
1.445
1.44
1.435
1.43
1.425
pull
Entries 93
Mean 856
Std Dev 0
400
300
200
100
0
−100
−200
−300

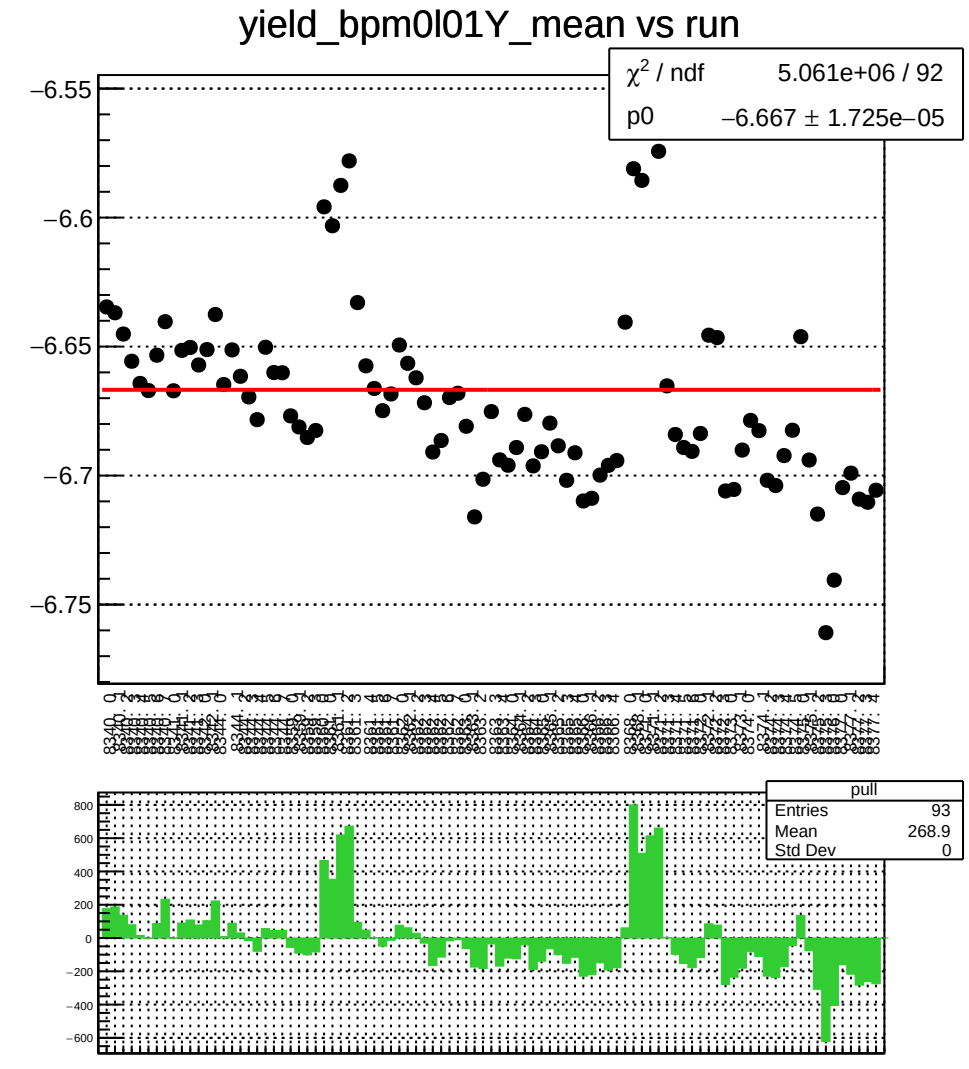

pull1D
Entries 93
Mean −1.008
Std Dev 3
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

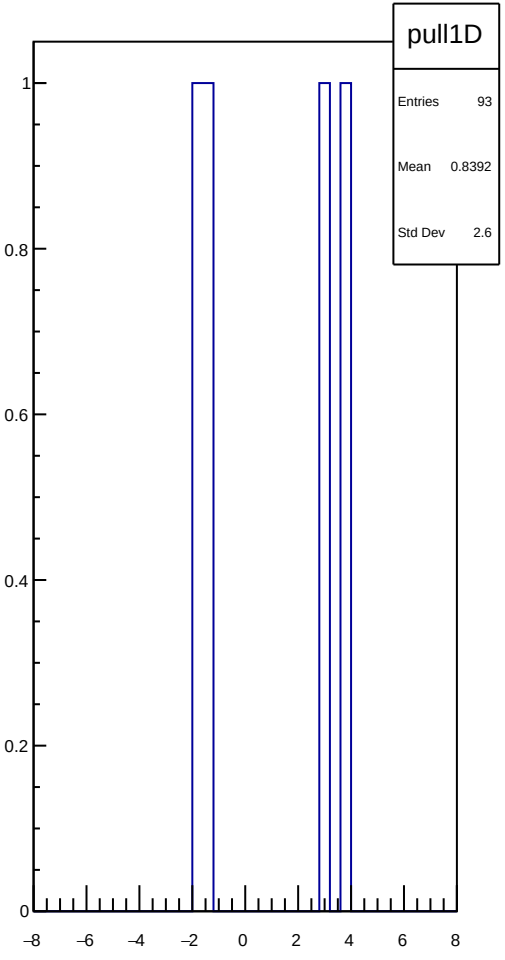

yield_bpm0i01aY_rms vs run
χ^2 / ndf 1.581e+04 / 92
p0 0.006073 ± 4.504e−06
0.01
0.009
0.008
0.007
0.006
0.005

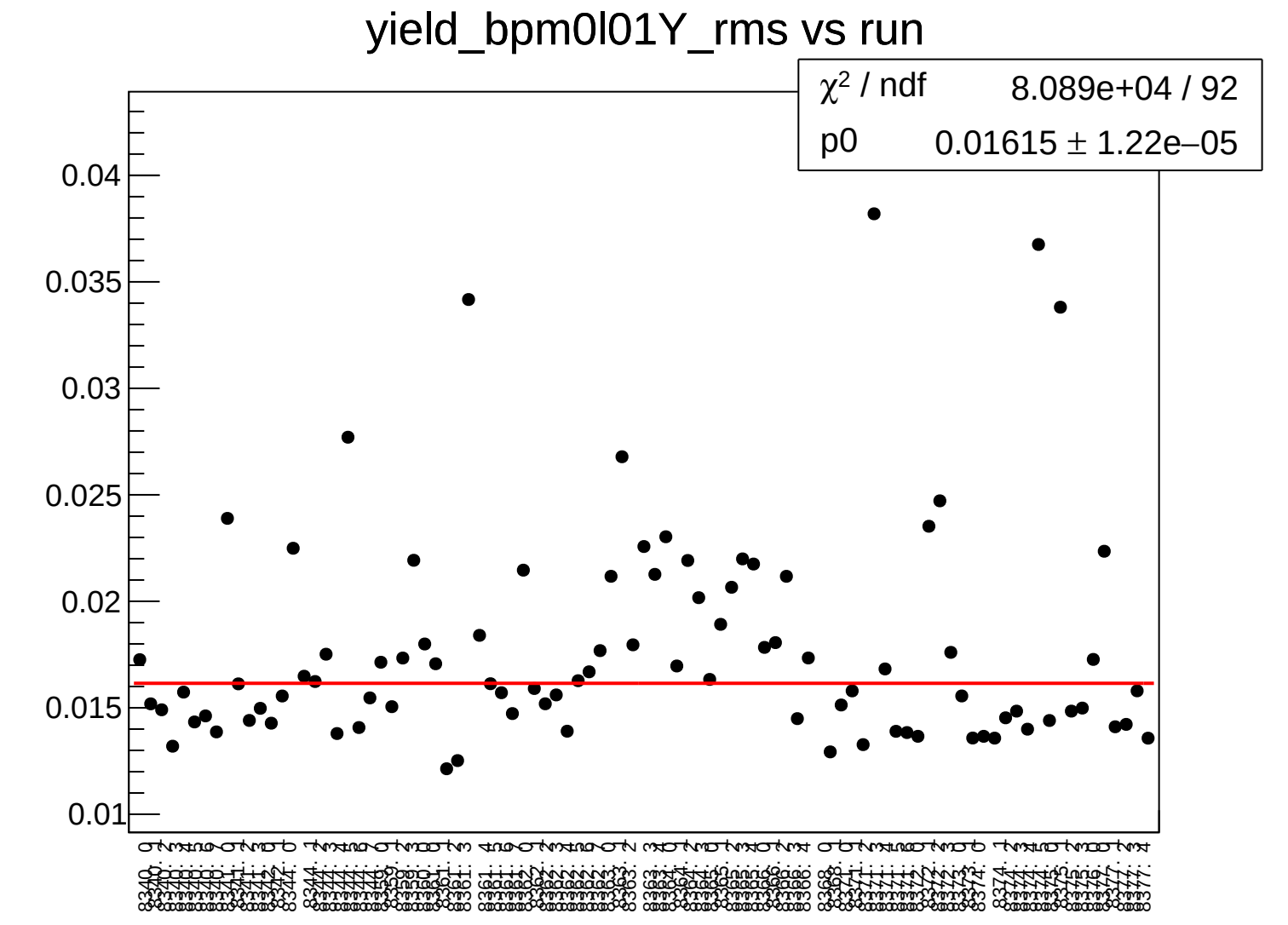

yield_bpm0l01X_mean vs run
χ² / ndf 3.492e+08 / 92
p0 1.024 ± 1.479e−05
pull
Entries 93
Mean −272.5
Std Dev 0

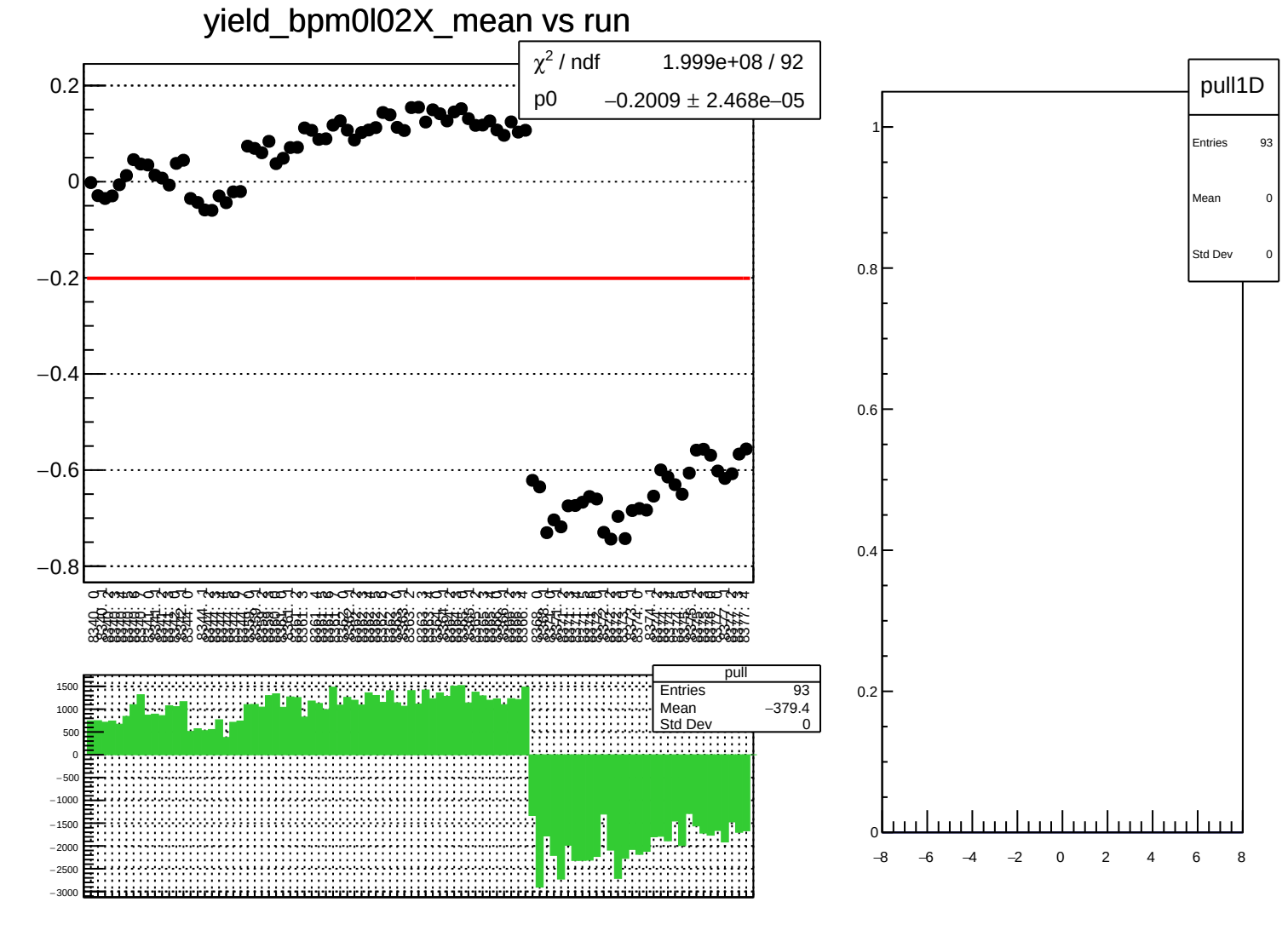

pull1D
Entries 93
Mean 0
Std Dev 0

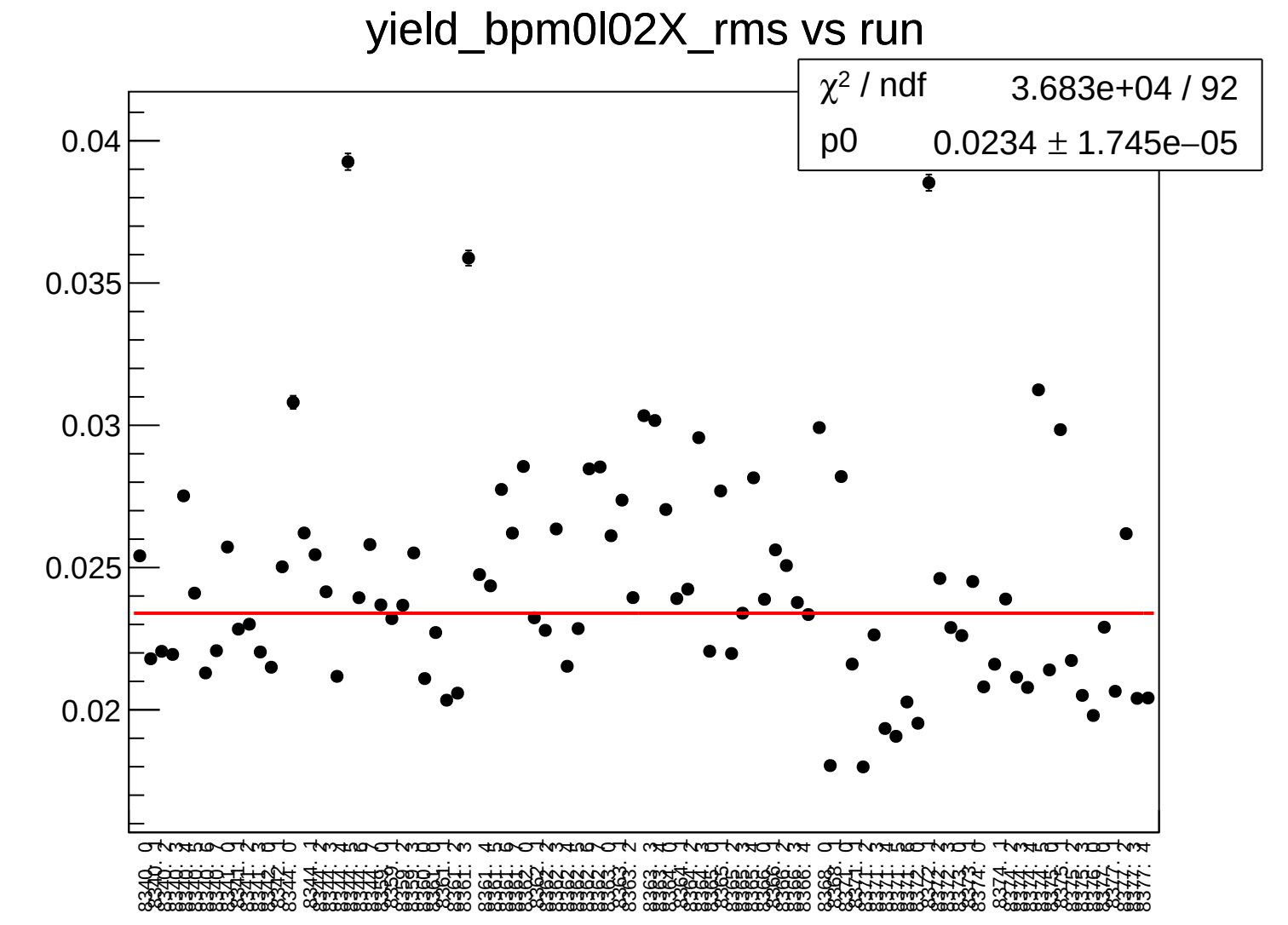

yield_bpm0l01X_rms vs run
χ² / ndf 1.148e+05 / 92
p0 0.01371 ± 1.046e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

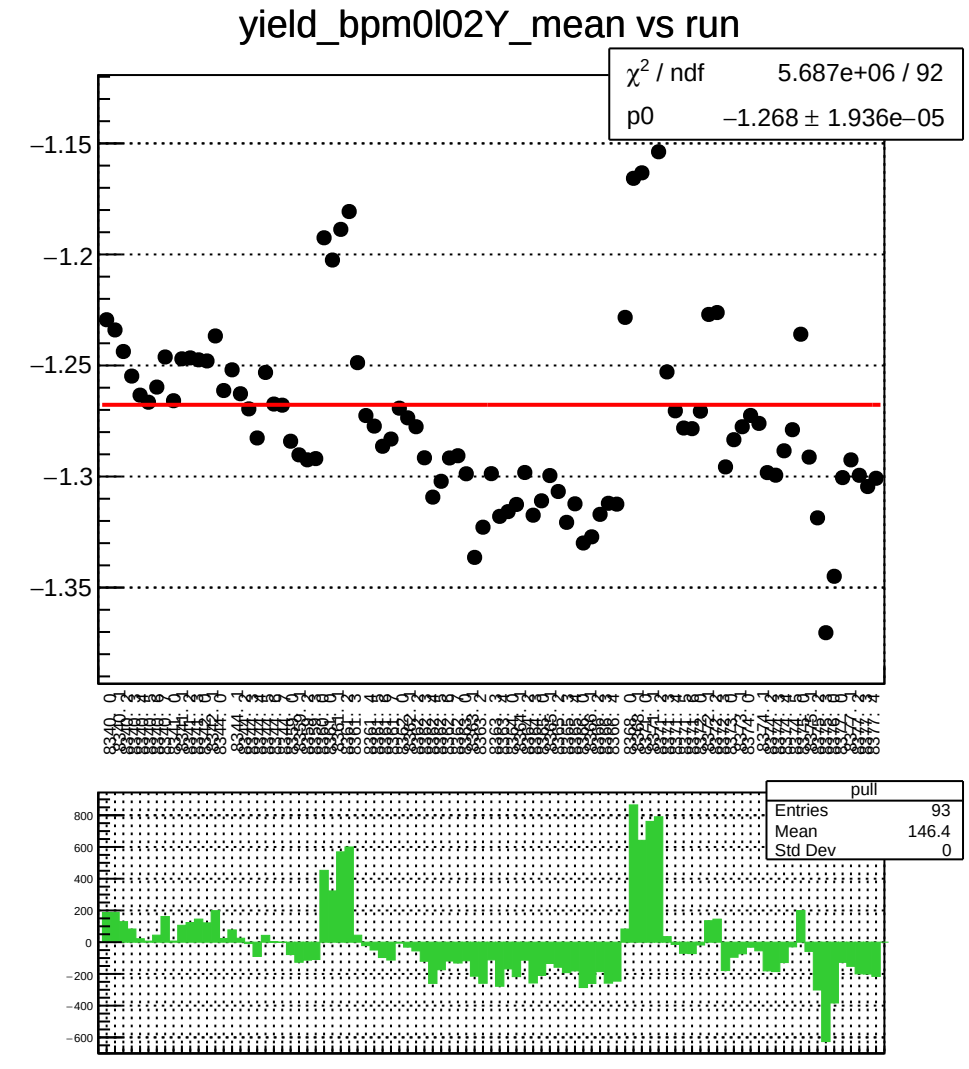

yield_bpm0l01Y_mean vs run
χ² / ndf 5.061e+06 / 92
p0 −6.667 ± 1.725e−05
−6.55
−6.6
−6.65
−6.7
−6.75
pull
Entries 93
Mean 268.9
Std Dev 0
800
600
400
200
0
−200
−400
−600

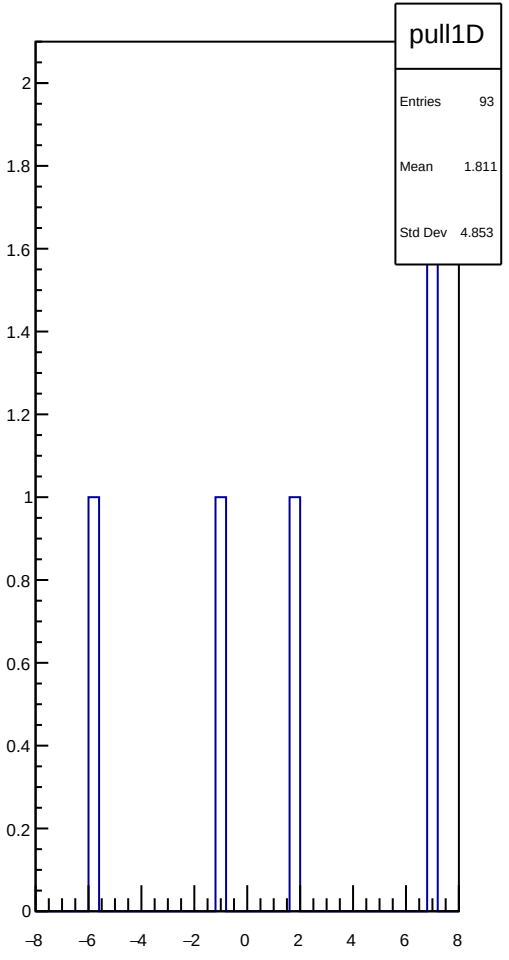

pull1D
Entries 93
Mean 0.8392
Std Dev 2.6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

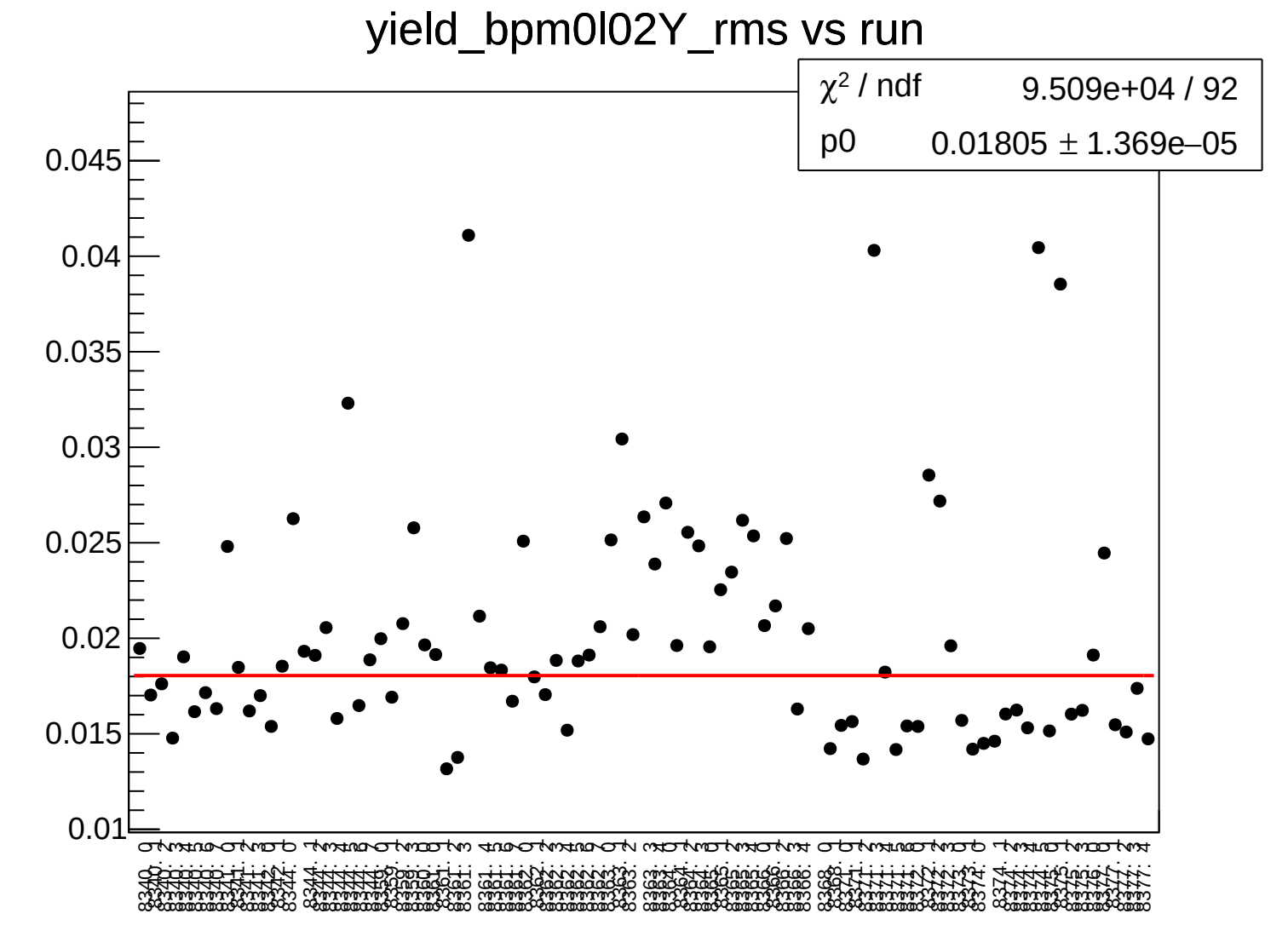

yield_bpm0l01Y_rms vs run
χ² / ndf 8.089e+04 / 92
p0 0.01615 ± 1.22e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

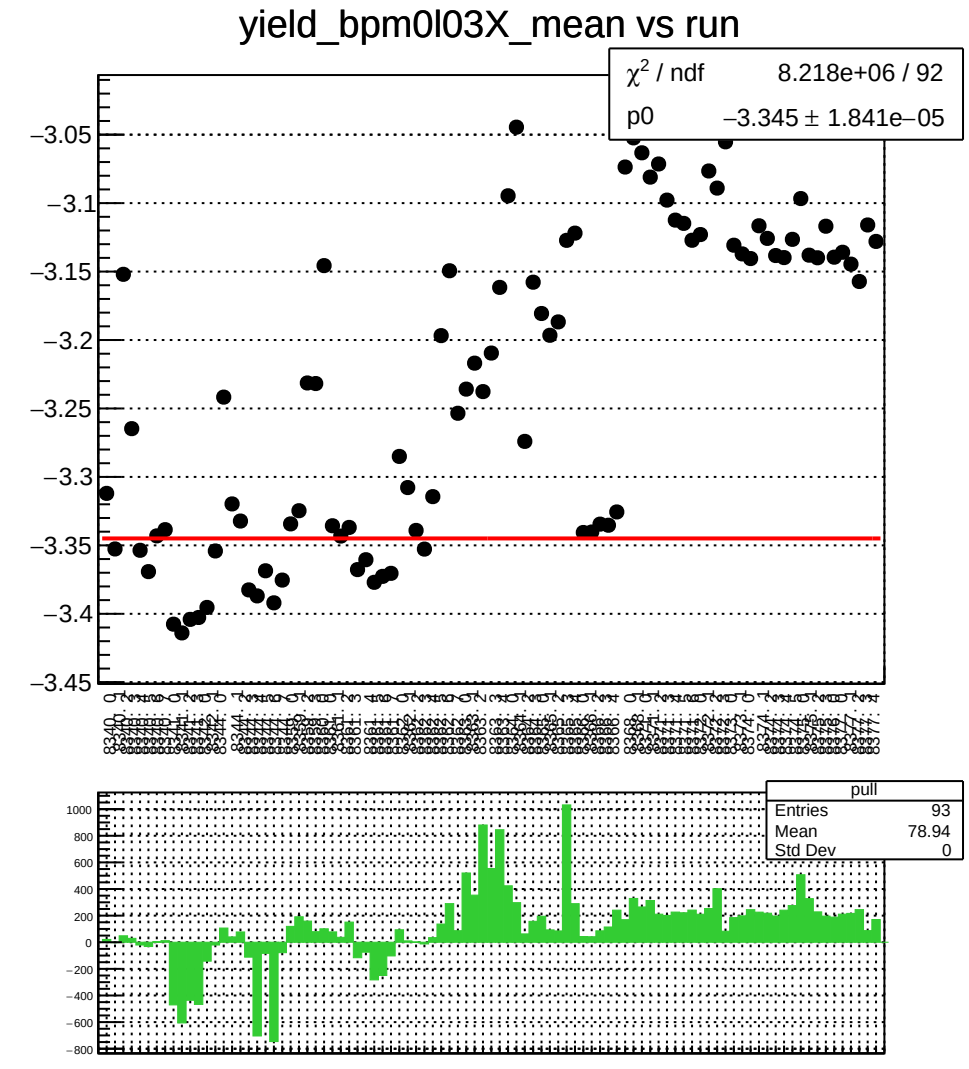

yield_bpm0l02X_mean vs run
χ² / ndf 1.999e+08 / 92
p0 −0.2009 ± 2.468e−05
pull
Entries 93
Mean −379.4
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0

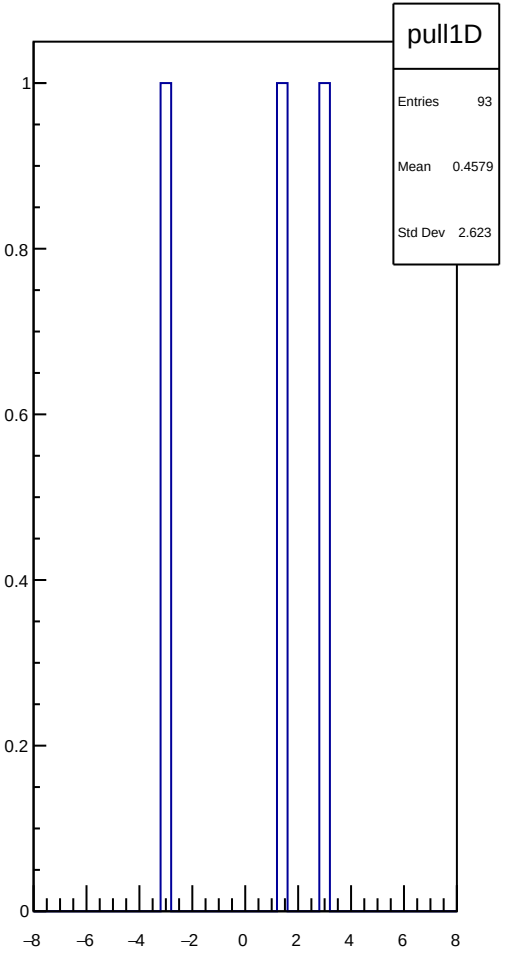

yield_bpm0l02X_rms vs run
χ² / ndf 3.683e+04 / 92
p0 0.0234 ± 1.745e−05
0.04
0.035
0.03
0.025
0.02

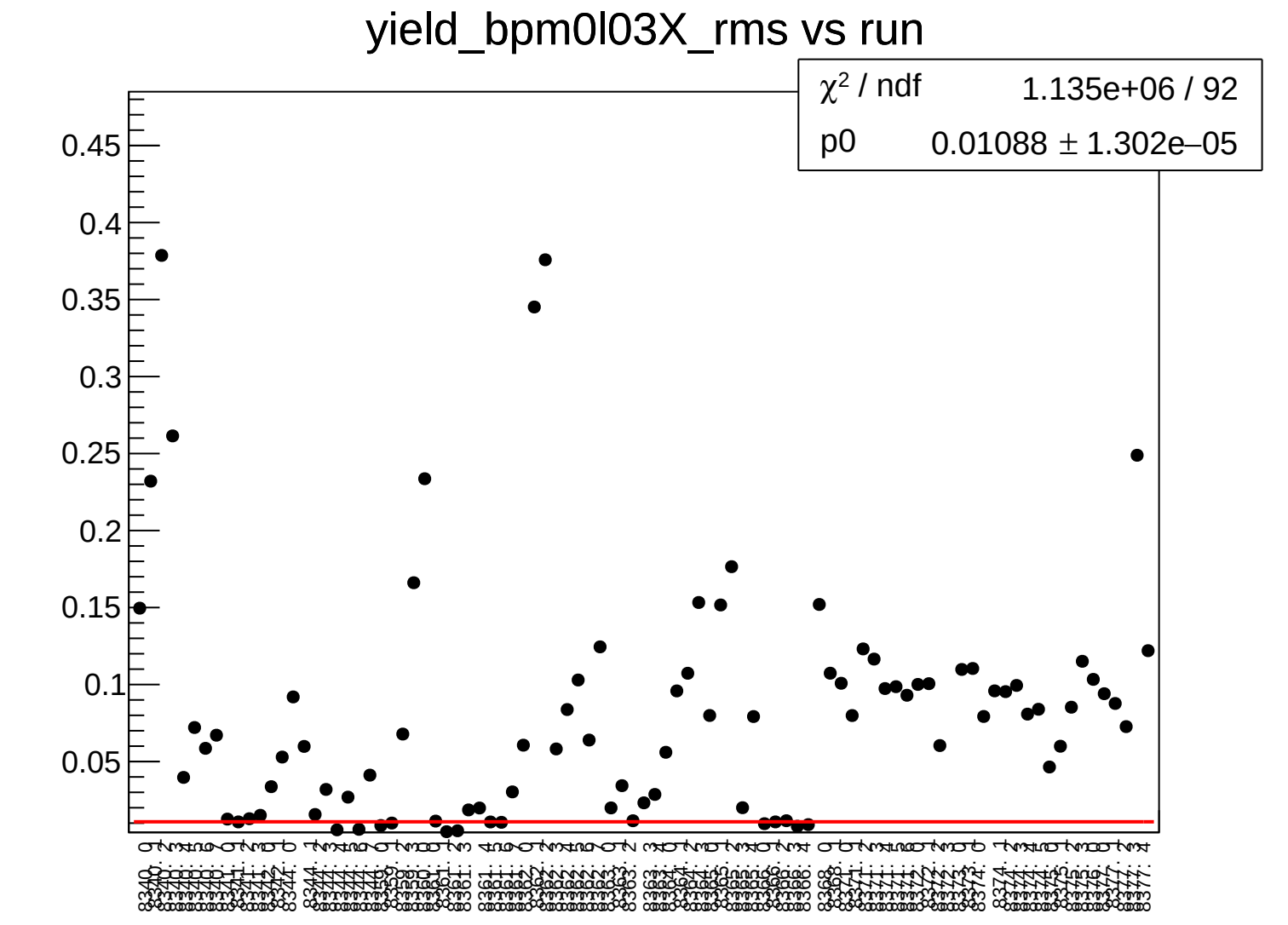

yield_bpm0l02Y_mean vs run
χ² / ndf 5.687e+06 / 92
p0 −1.268 ± 1.936e−05
−1.15
−1.2
−1.25
−1.3
−1.35
pull
Entries 93
Mean 146.4
Std Dev 0
800
600
400
200
0
−200
−400
−600

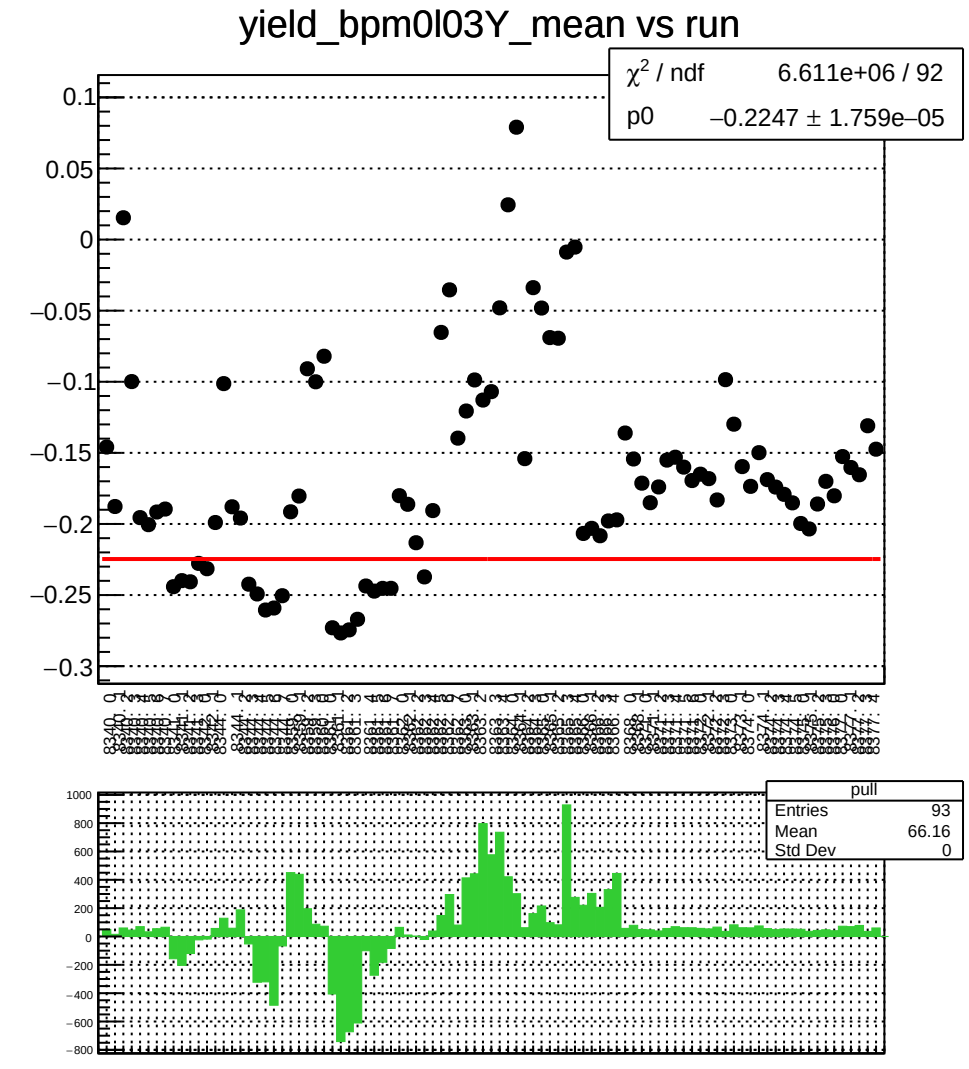

pull1D
Entries 93
Mean 1.811
Std Dev 4.853
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

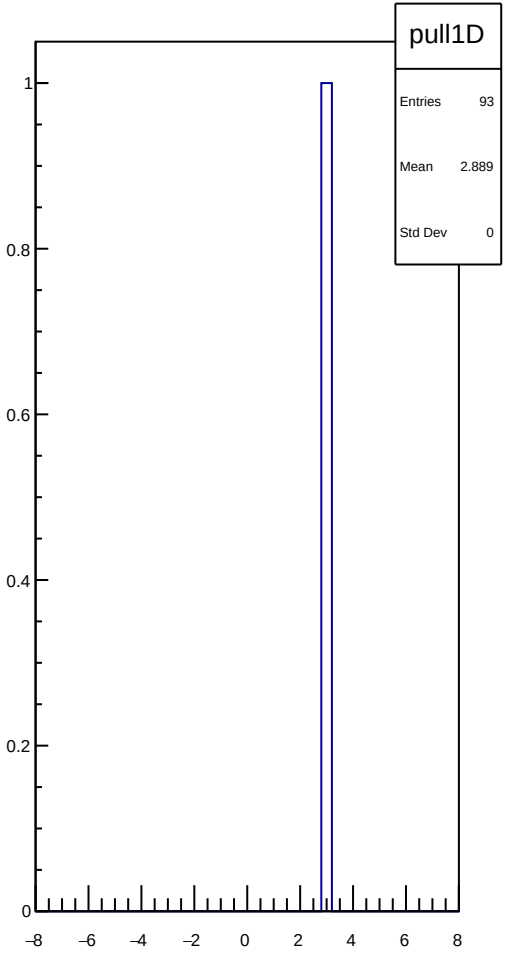

yield_bpm0l02Y_rms vs run
χ² / ndf 9.509e+04 / 92
p0 0.01805 ± 1.369e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

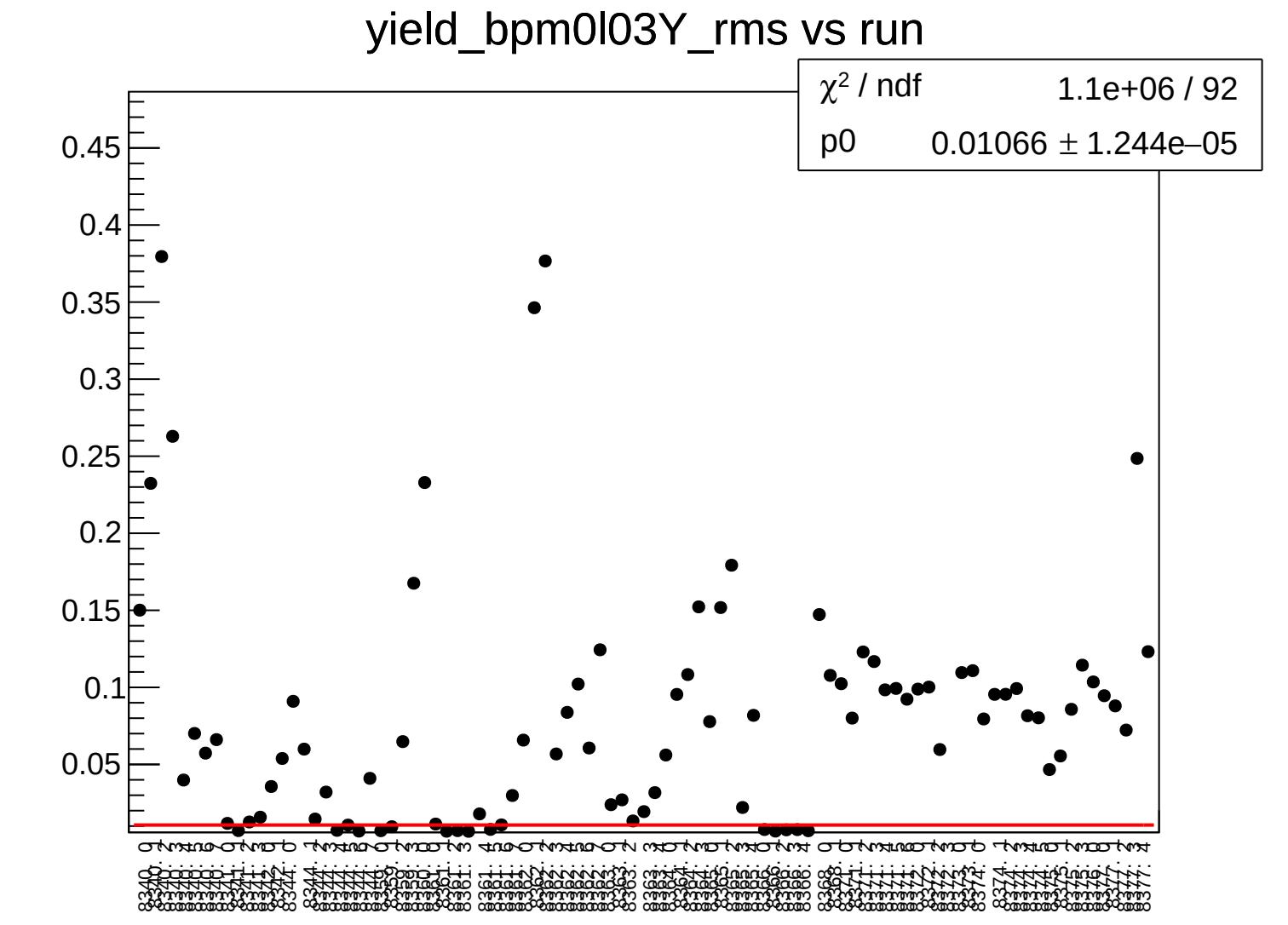

yield_bpm0l03X_mean vs run
χ² / ndf 8.218e+06 / 92
p0 −3.345 ± 1.841e−05
−3.05
−3.1
−3.15
−3.2
−3.25
−3.3
−3.35
−3.4
−3.45
pull
Entries 93
Mean 78.94
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

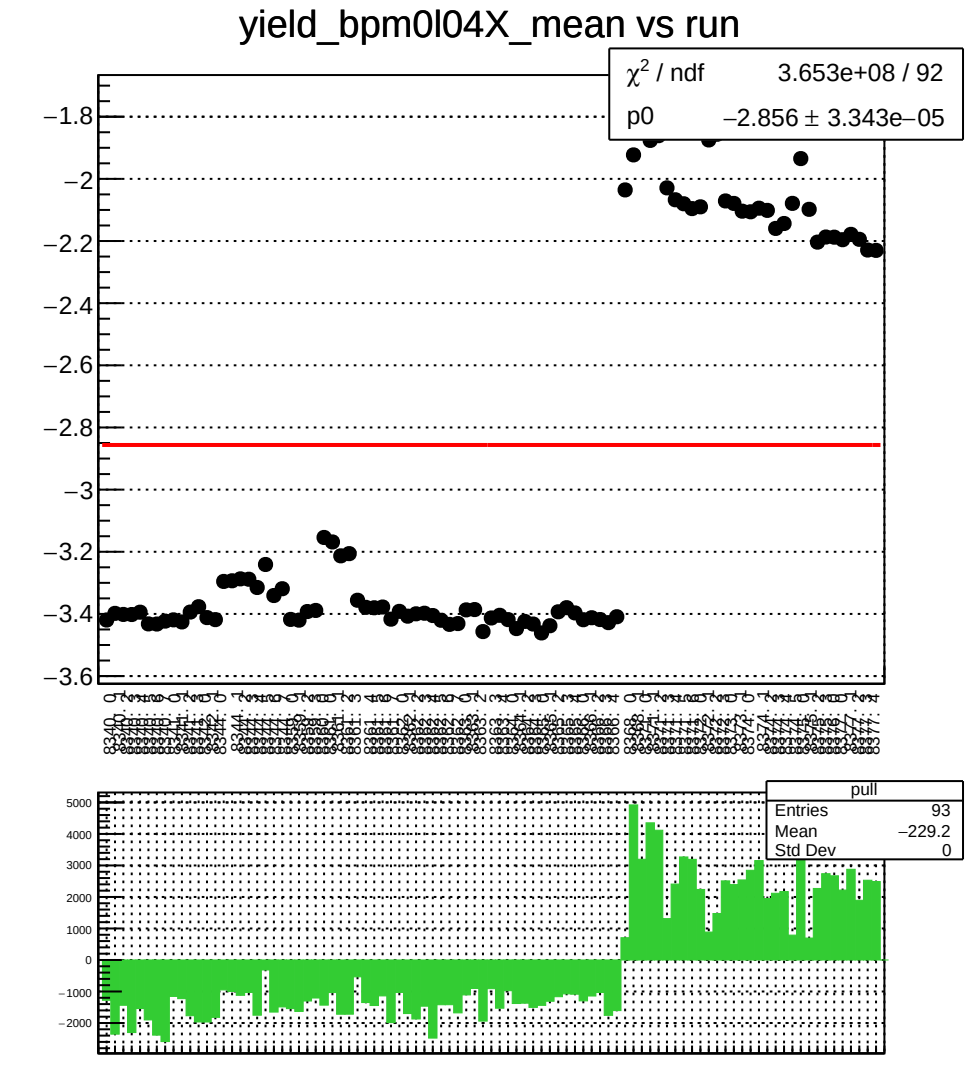

pull1D
Entries 93
Mean 0.4579
Std Dev 2.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

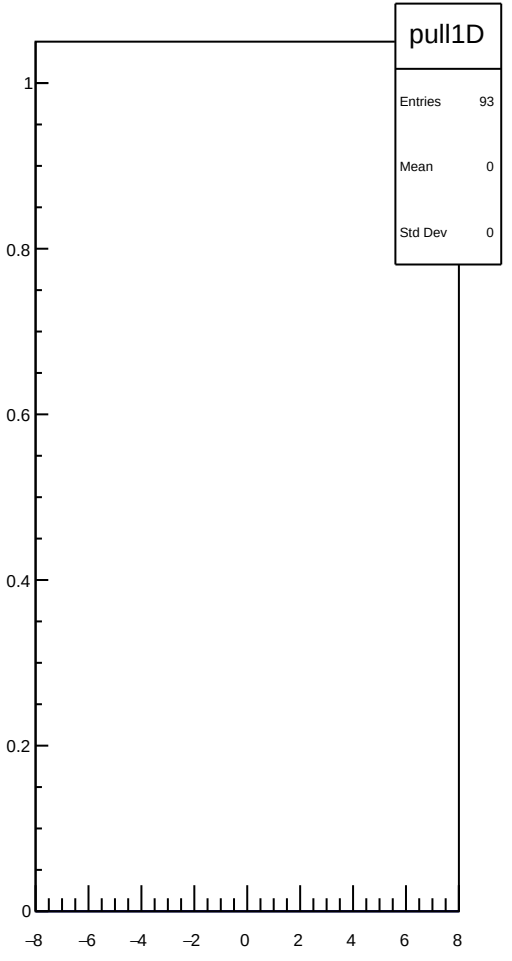

yield_bpm0l03X_rms vs run
χ² / ndf 1.135e+06 / 92
p0 0.01088 ± 1.302e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

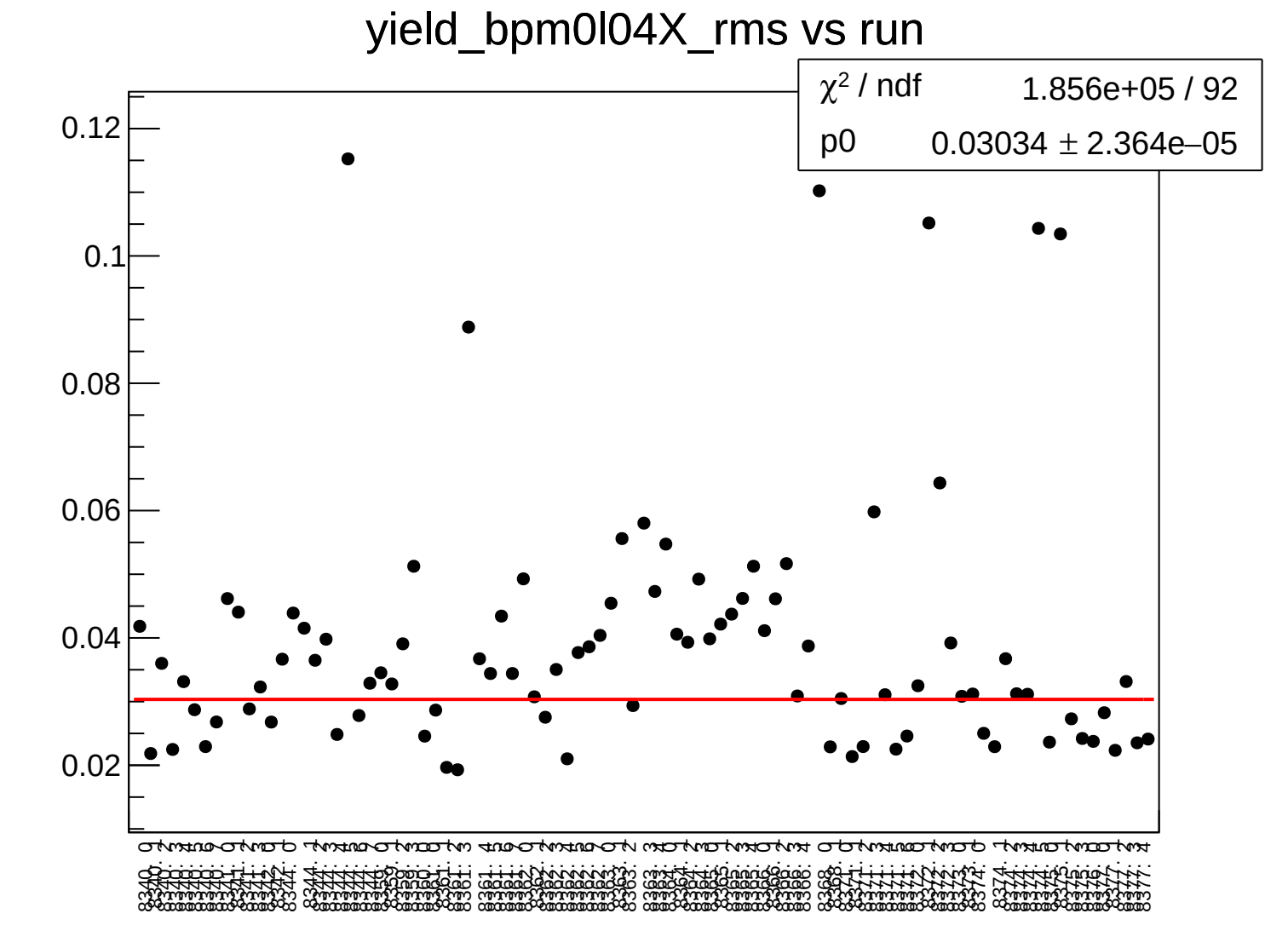

yield_bpm0l03Y_mean vs run
χ² / ndf 6.611e+06 / 92
p0 −0.2247 ± 1.759e−05
pull
Entries 93
Mean 66.16
Std Dev 0

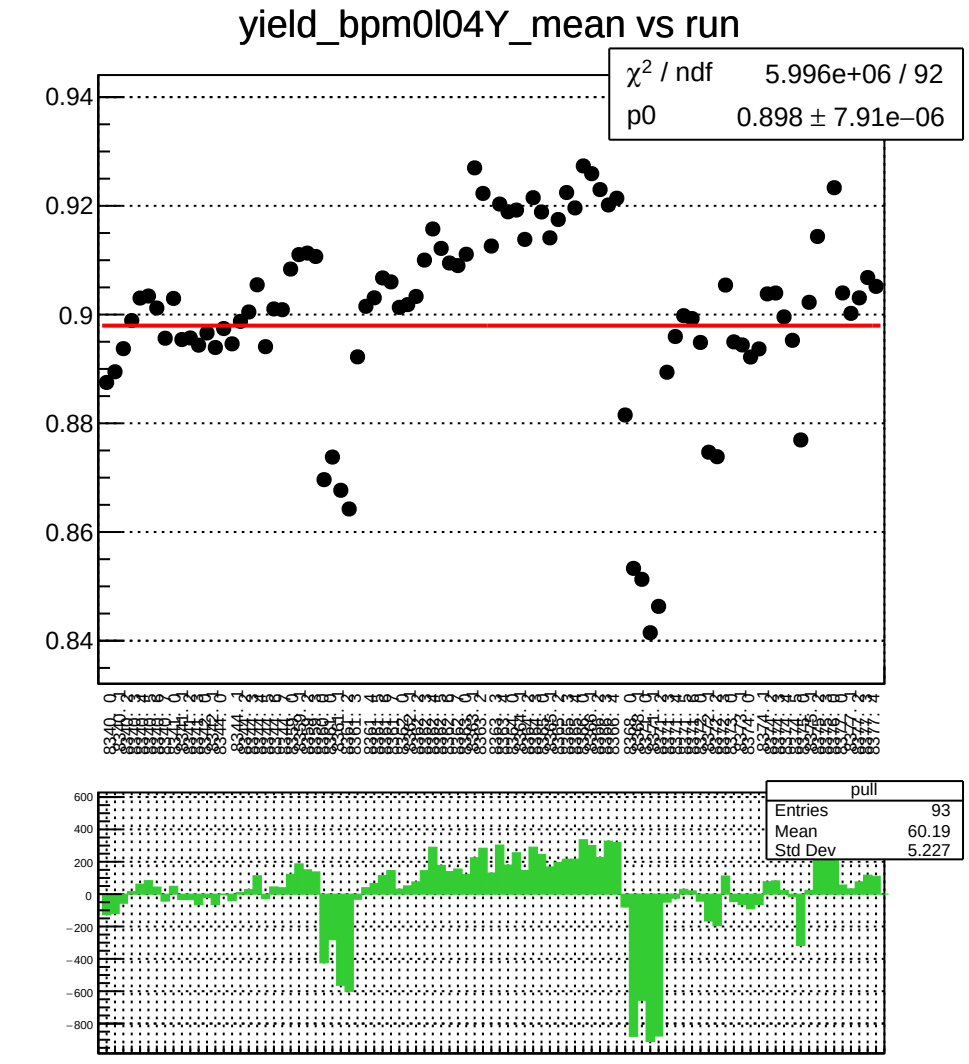

pull1D
Entries 93
Mean 2.889
Std Dev 0

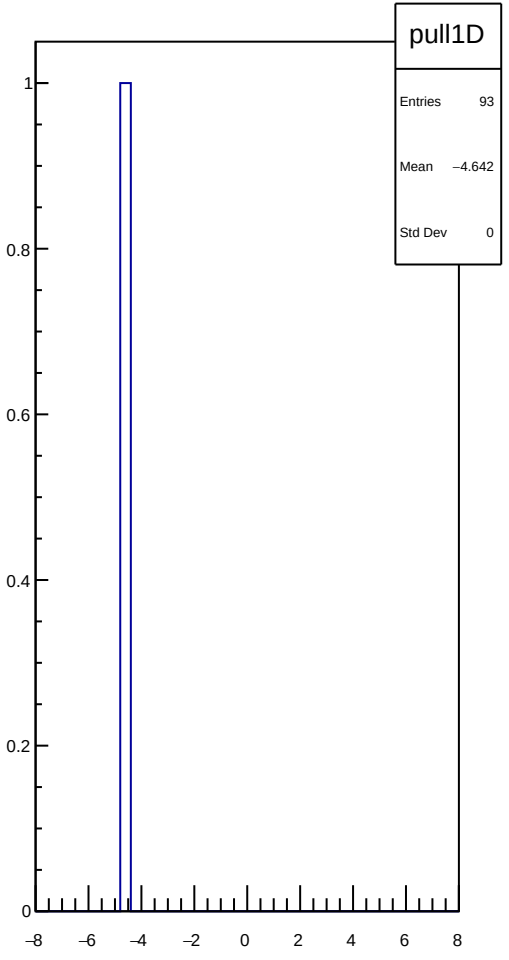

yield_bpm0l03Y_rms vs run
χ² / ndf 1.1e+06 / 92
p0 0.01066 ± 1.244e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

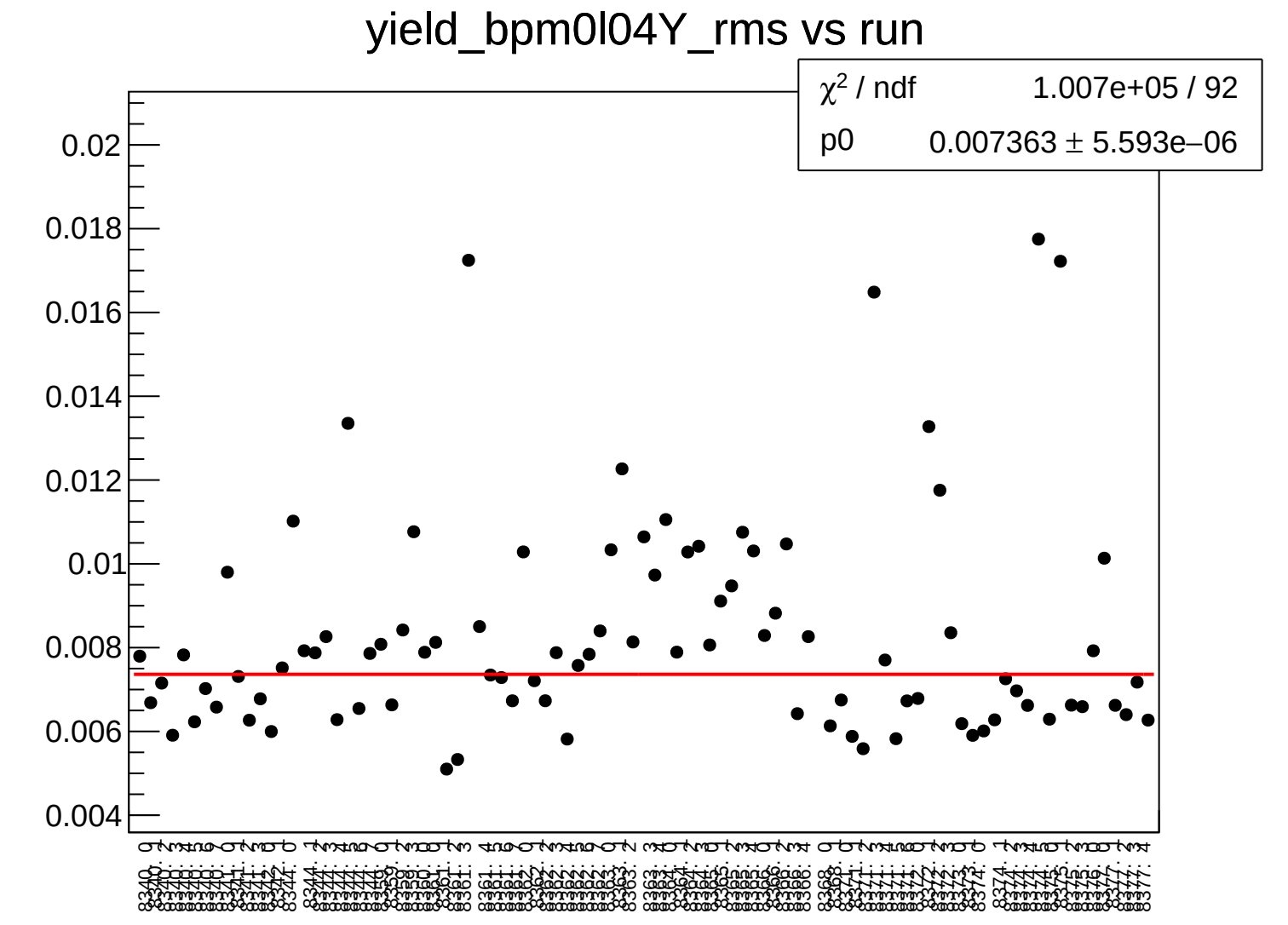

yield_bpm0l04X_mean vs run
χ² / ndf 3.653e+08 / 92
p0 −2.856 ± 3.343e−05
−1.8
−2
−2.2
−2.4
−2.6
−2.8
−3
−3.2
−3.4
−3.6
pull
Entries 93
Mean −229.2
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000

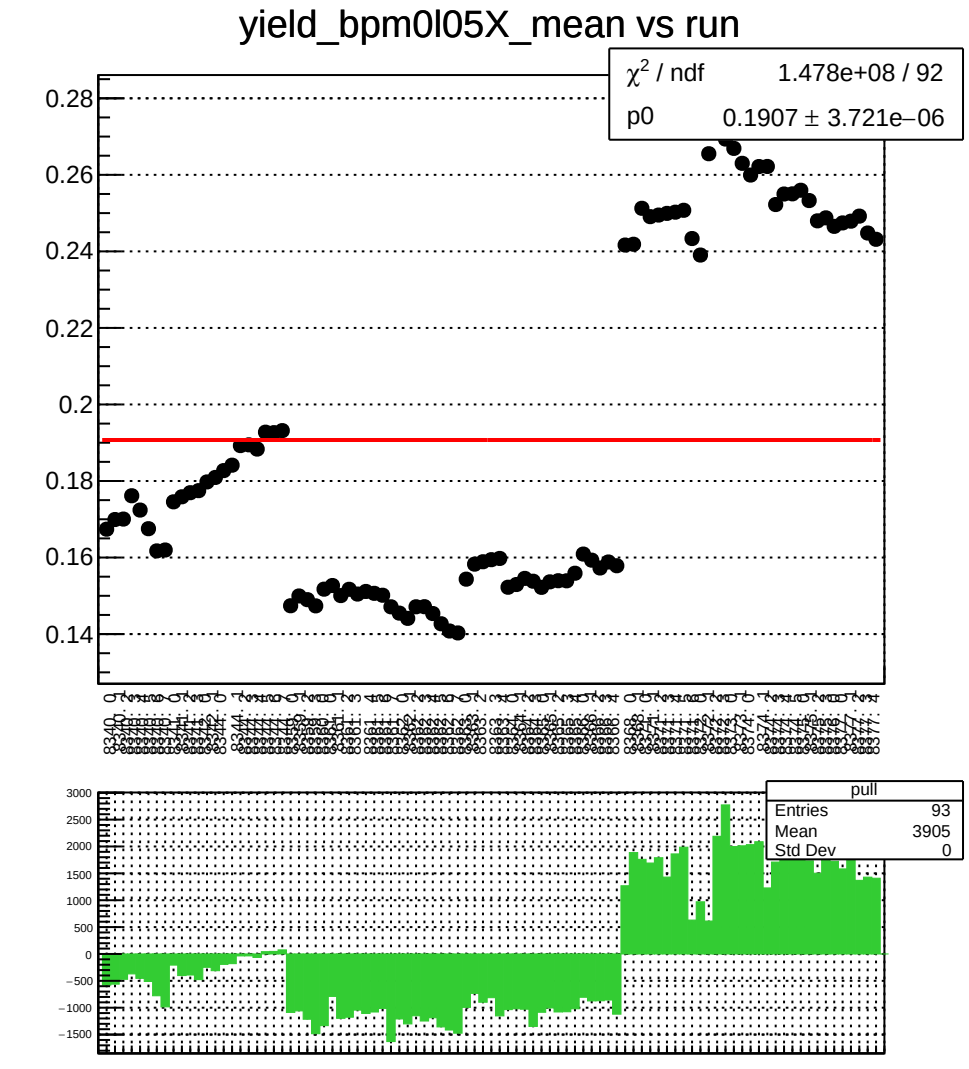

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

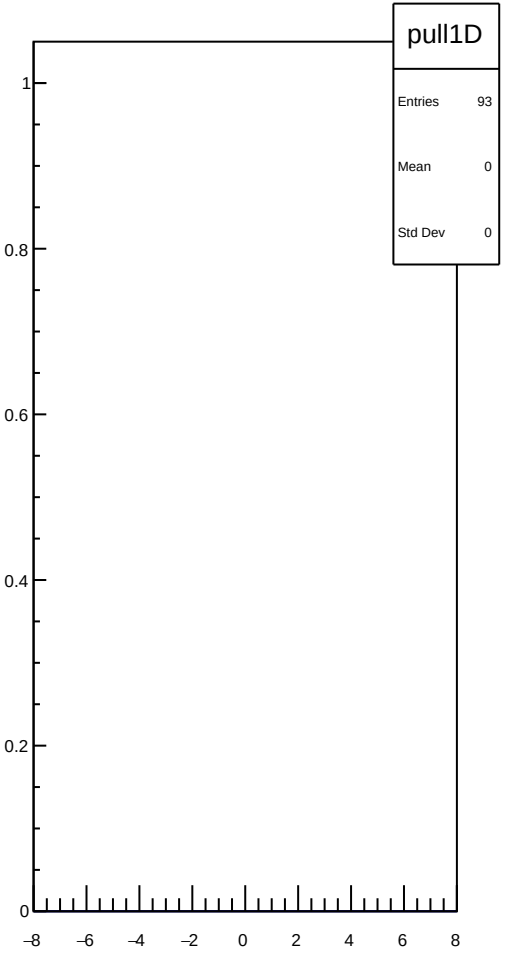

yield_bpm0l04X_rms vs run
χ² / ndf 1.856e+05 / 92
p0 0.03034 ± 2.364e−05
0.12
0.1
0.08
0.06
0.04
0.02

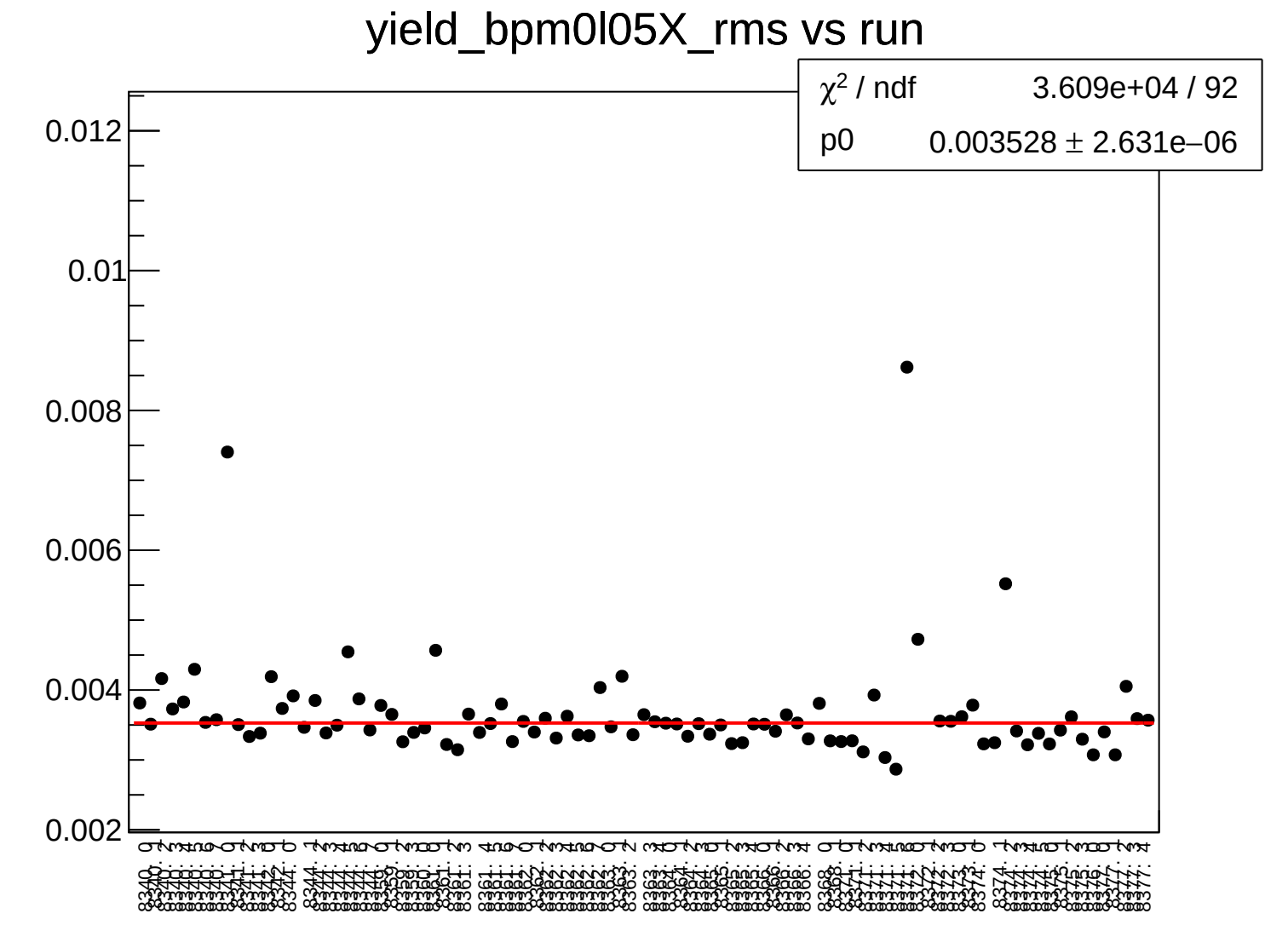

yield_bpm0l04Y_mean vs run
χ² / ndf 5.996e+06 / 92
p0 0.898 ± 7.91e−06
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 93
Mean 60.19
Std Dev 5.227
600
400
200
0
−200
−400
−600
−800

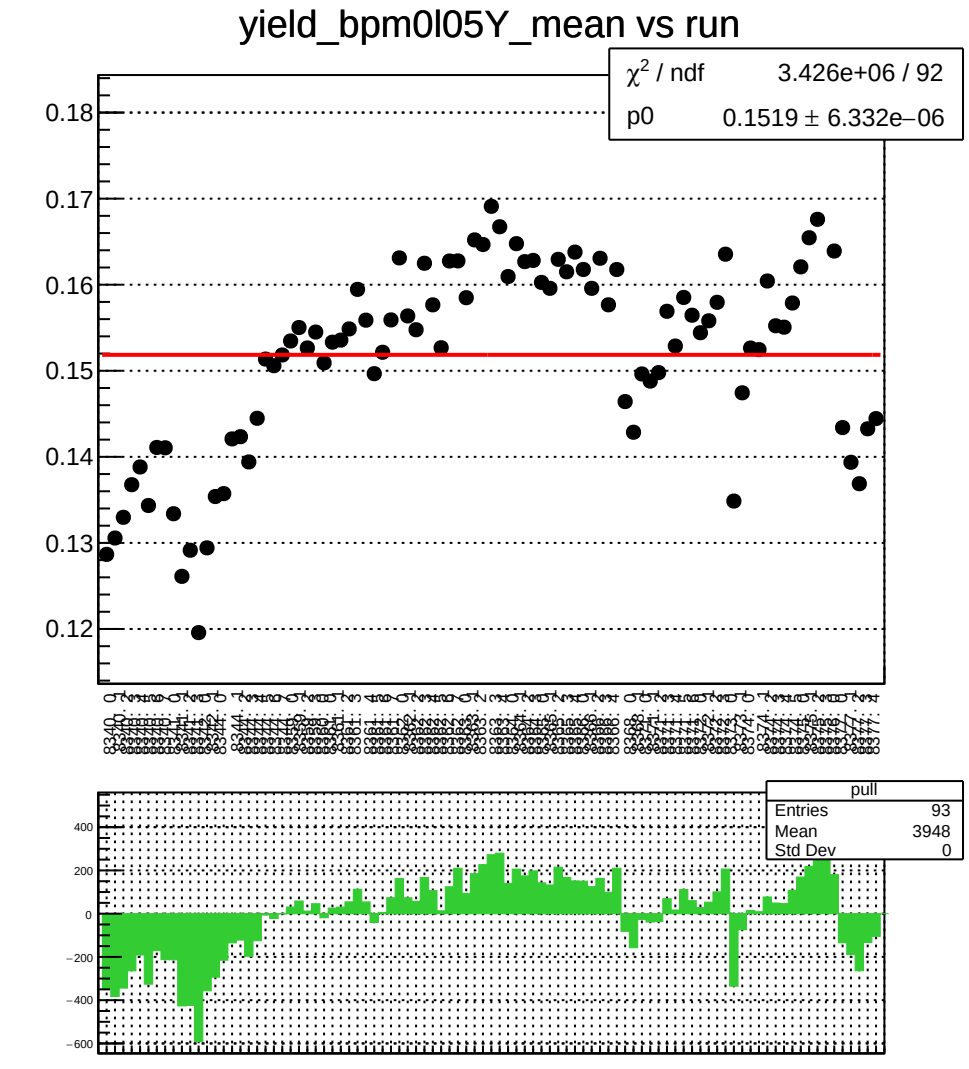

pull1D
Entries 93
Mean −4.642
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

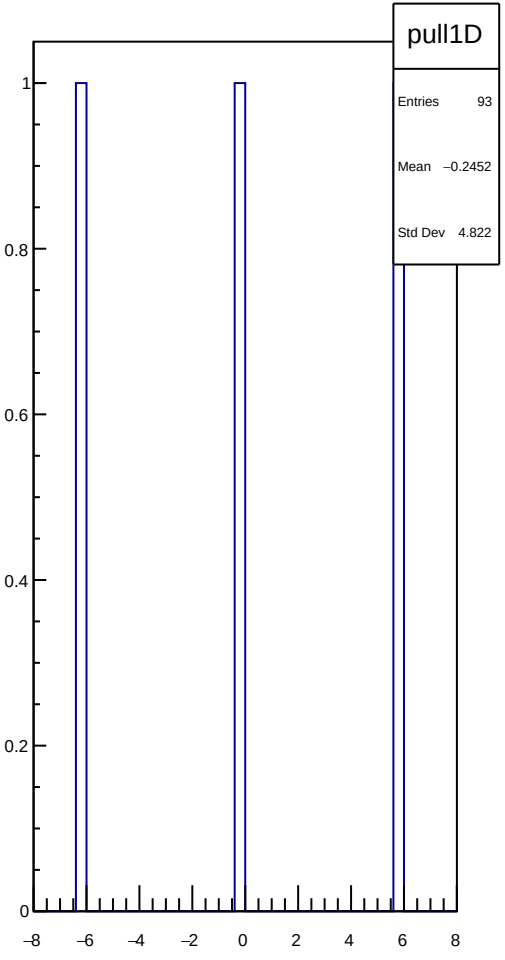

yield_bpm0l04Y_rms vs run
χ² / ndf 1.007e+05 / 92
p0 0.007363 ± 5.593e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

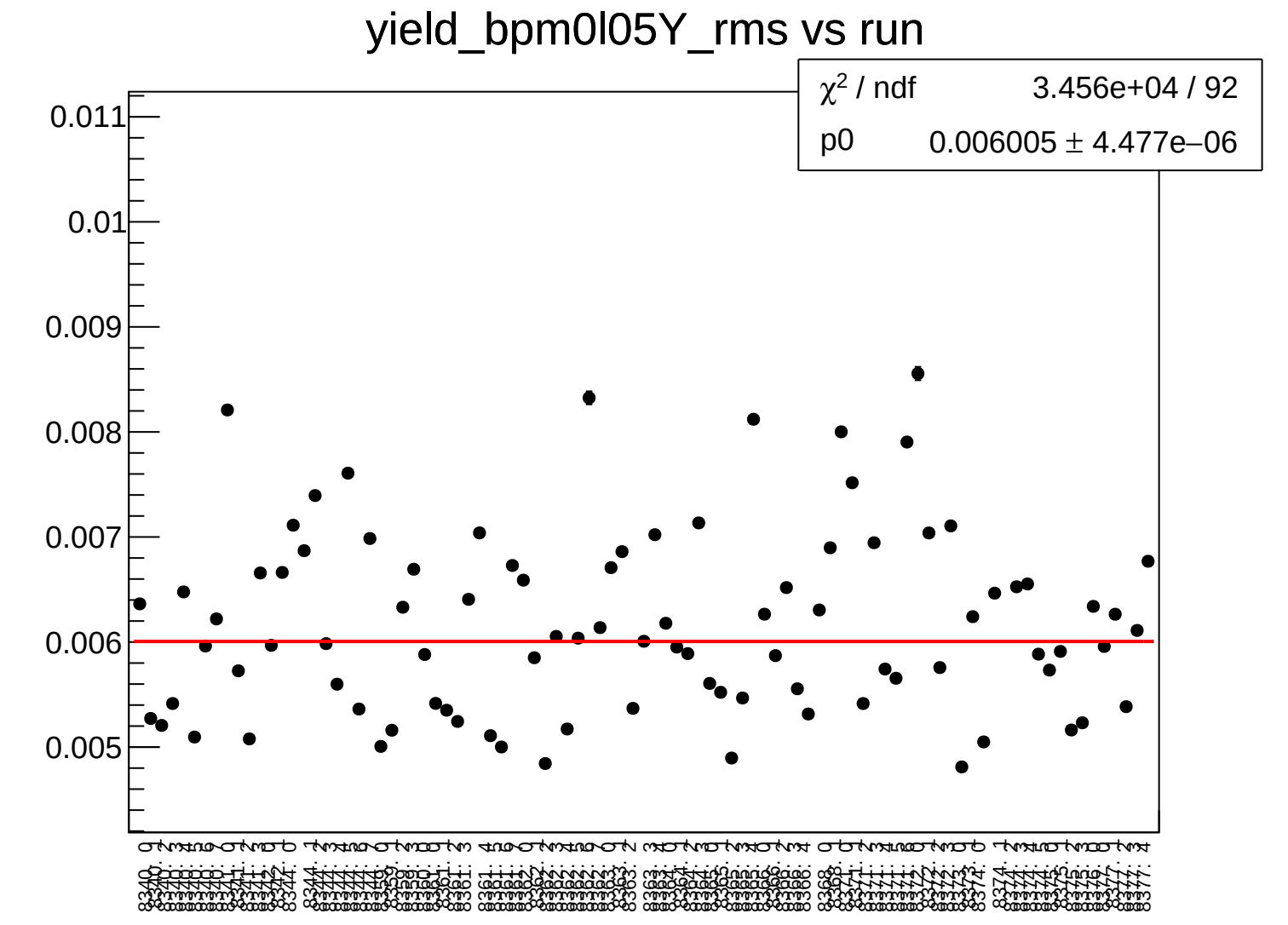

yield_bpm0l05X_mean vs run
χ² / ndf 1.478e+08 / 92
p0 0.1907 ± 3.721e−06
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 93
Mean 3905
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000
−1500

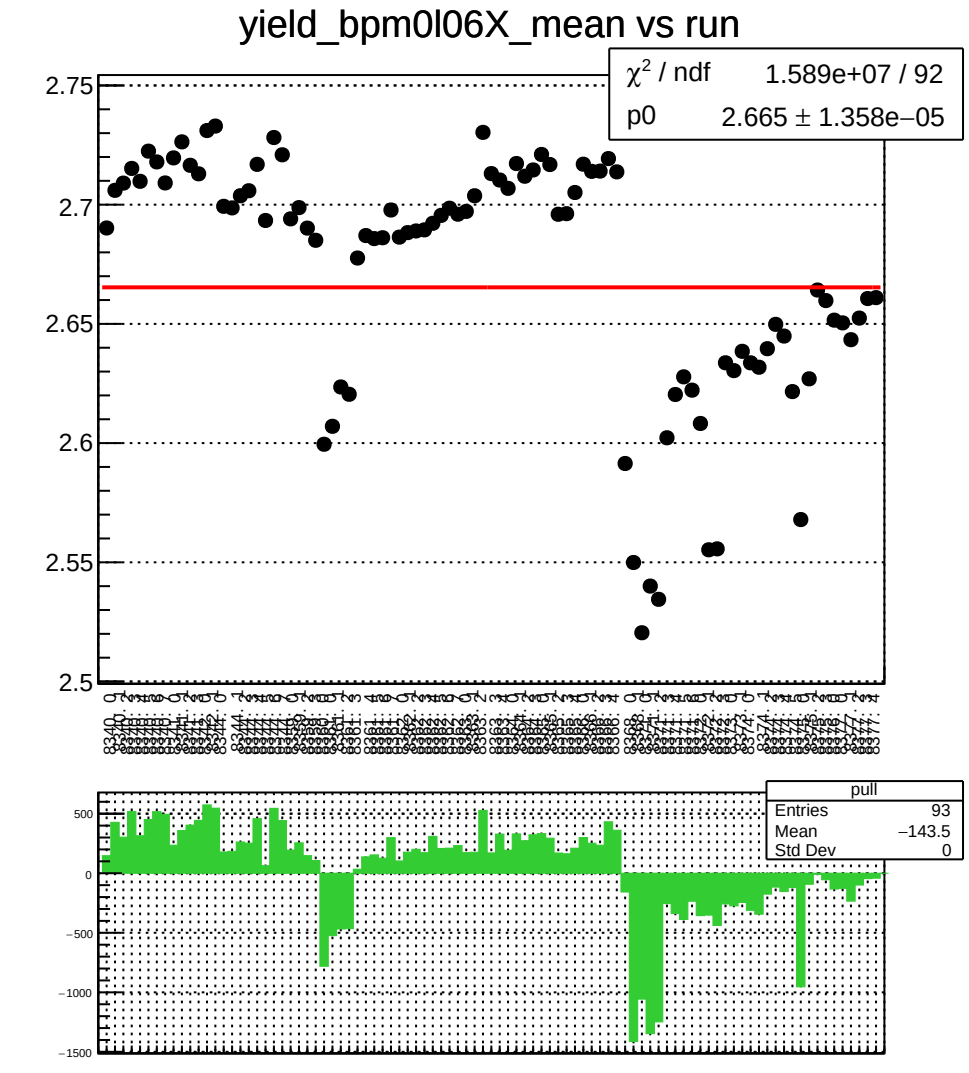

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

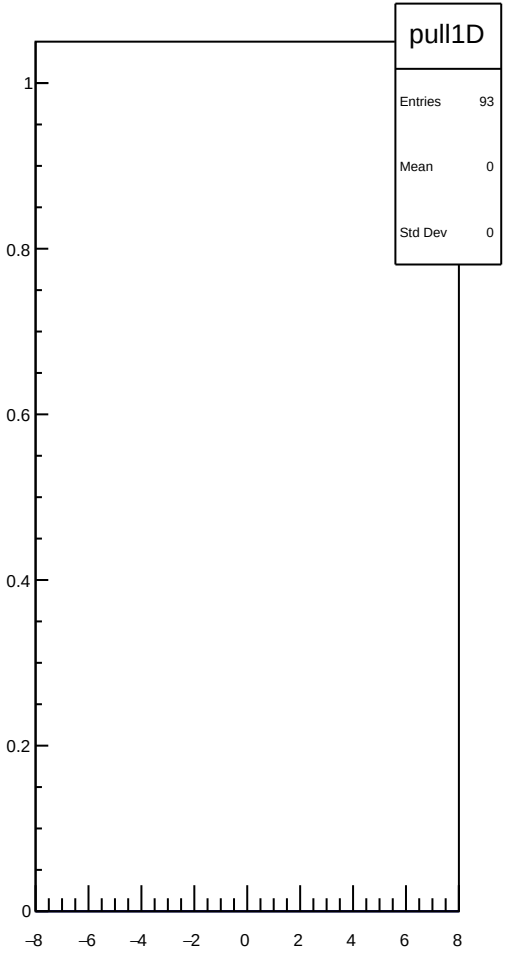

yield_bpm0l05X_rms vs run
χ² / ndf 3.609e+04 / 92
p0 0.003528 ± 2.631e−06
0.012
0.01
0.008
0.006
0.004
0.002

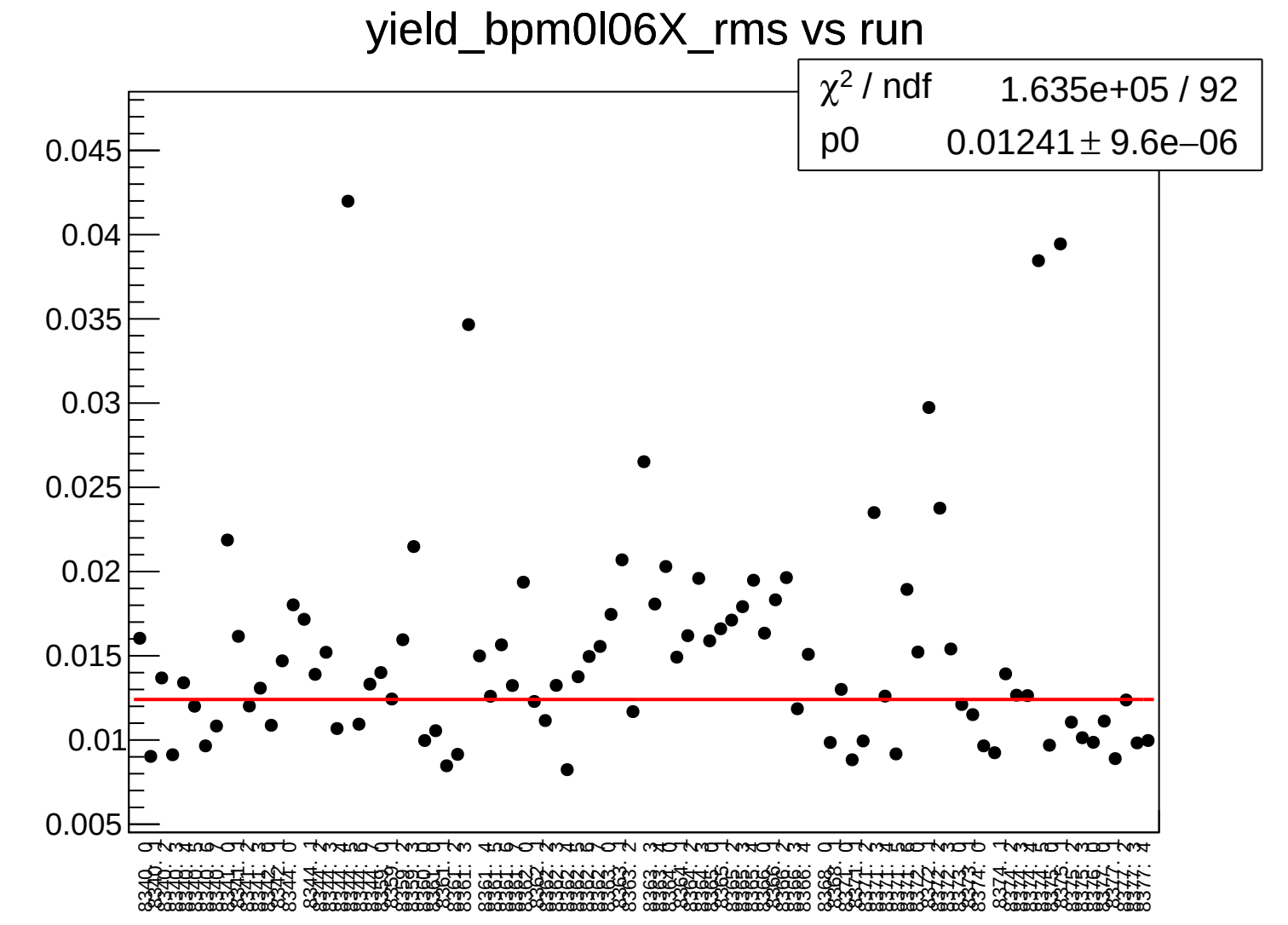

yield_bpm0l05Y_mean vs run
χ² / ndf 3.426e+06 / 92
p0 0.1519 ± 6.332e−06
0.18
0.17
0.16
0.15
0.14
0.13
0.12
pull
Entries 93
Mean 3948
Std Dev 0
400
200
0
−200
−400
−600

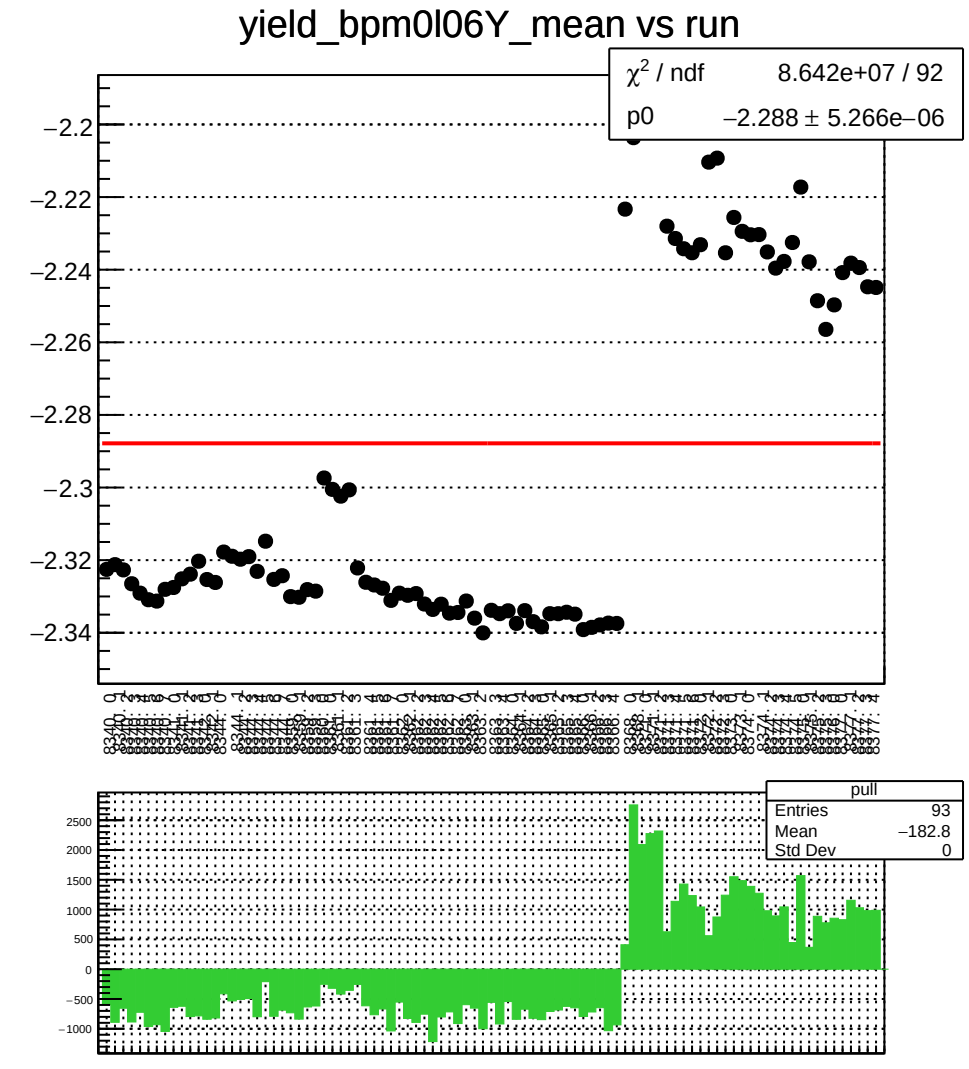

pull1D
Entries 93
Mean −0.2452
Std Dev 4.822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

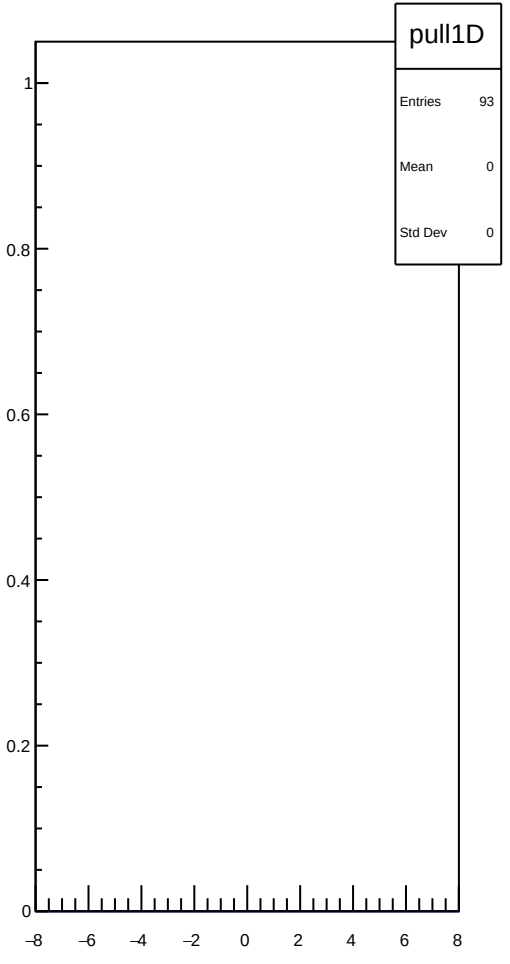

yield_bpm0l05Y_rms vs run
χ² / ndf 3.456e+04 / 92
p0 0.006005 ± 4.477e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

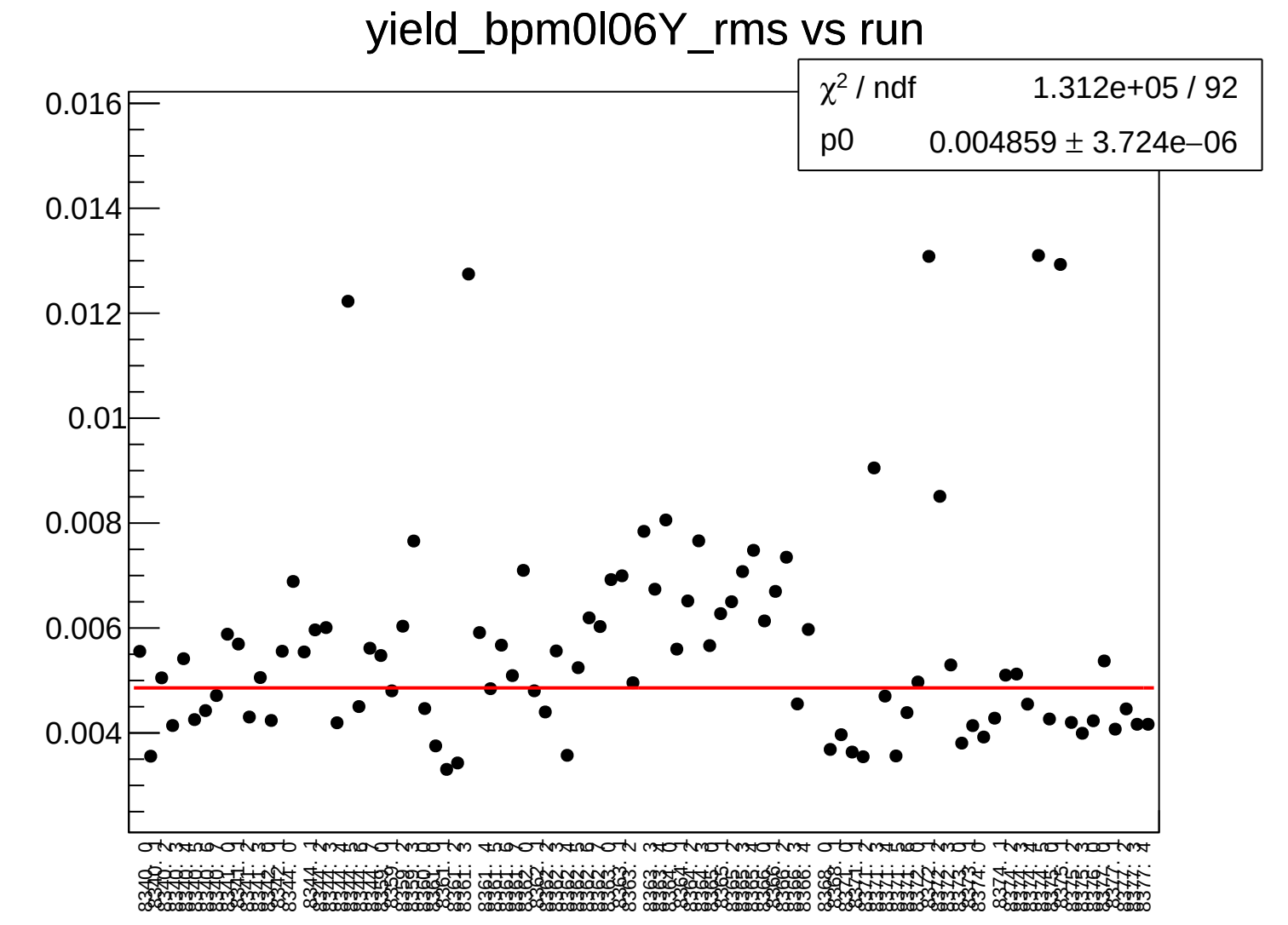

yield_bpm0l06X_mean vs run
χ² / ndf 1.589e+07 / 92
p0 2.665 ± 1.358e−05
2.75
2.7
2.65
2.6
2.55
2.5
pull
Entries 93
Mean −143.5
Std Dev 0
500
0
−500
−1000
−1500

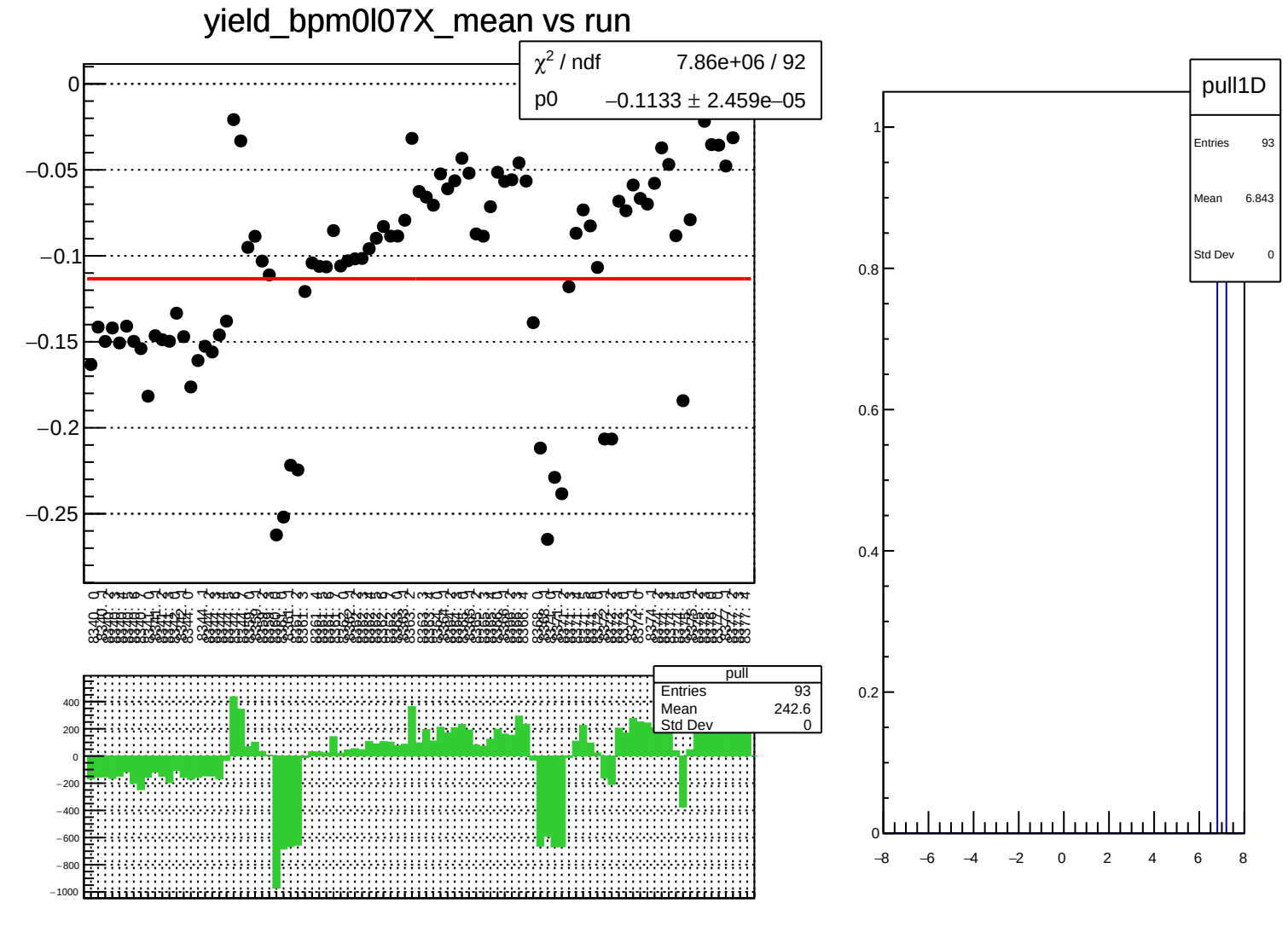

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

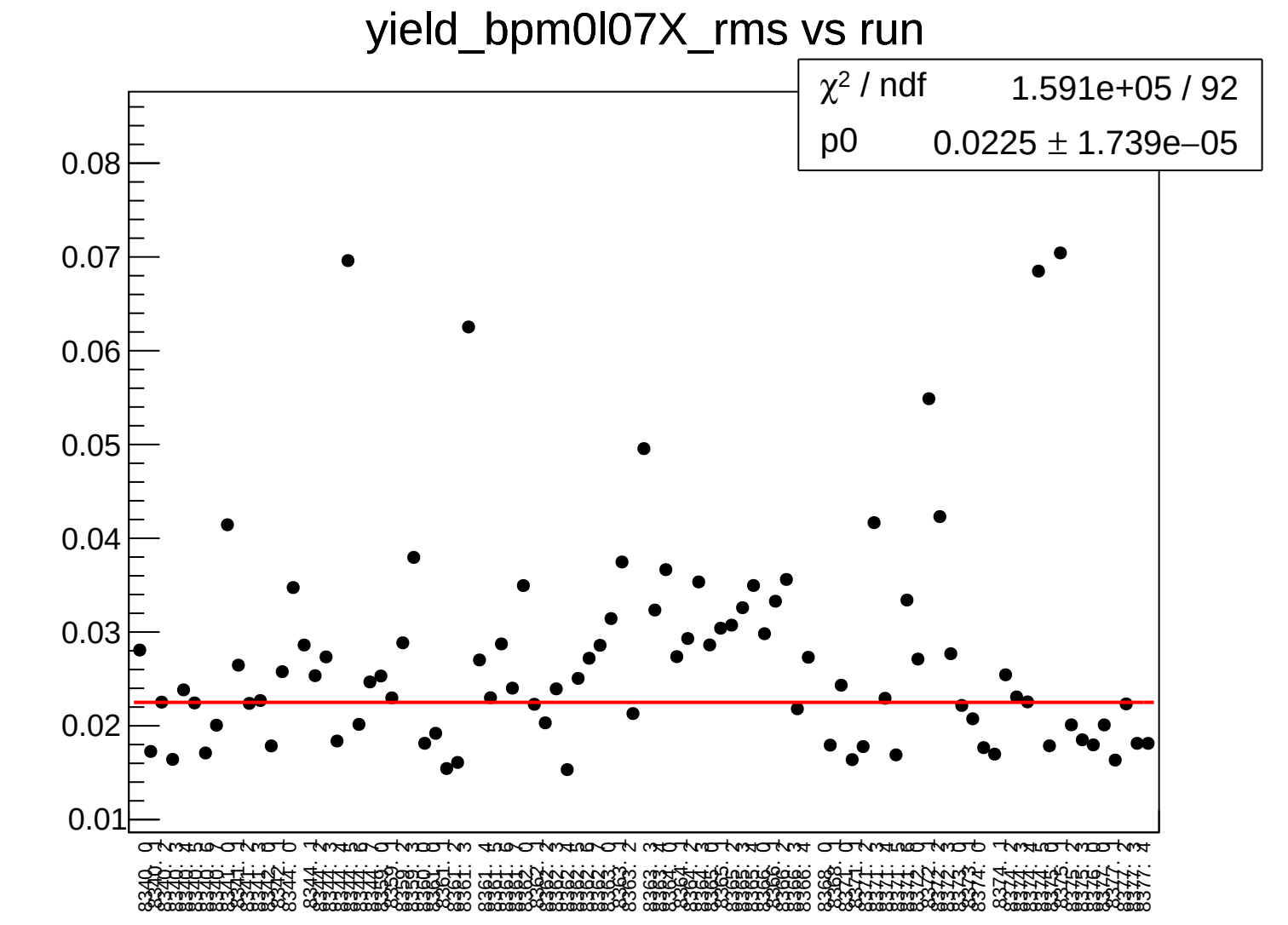

yield_bpm0l06X_rms vs run
χ^2 / ndf 1.635e+05 / 92
p0 0.01241 ± 9.6e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

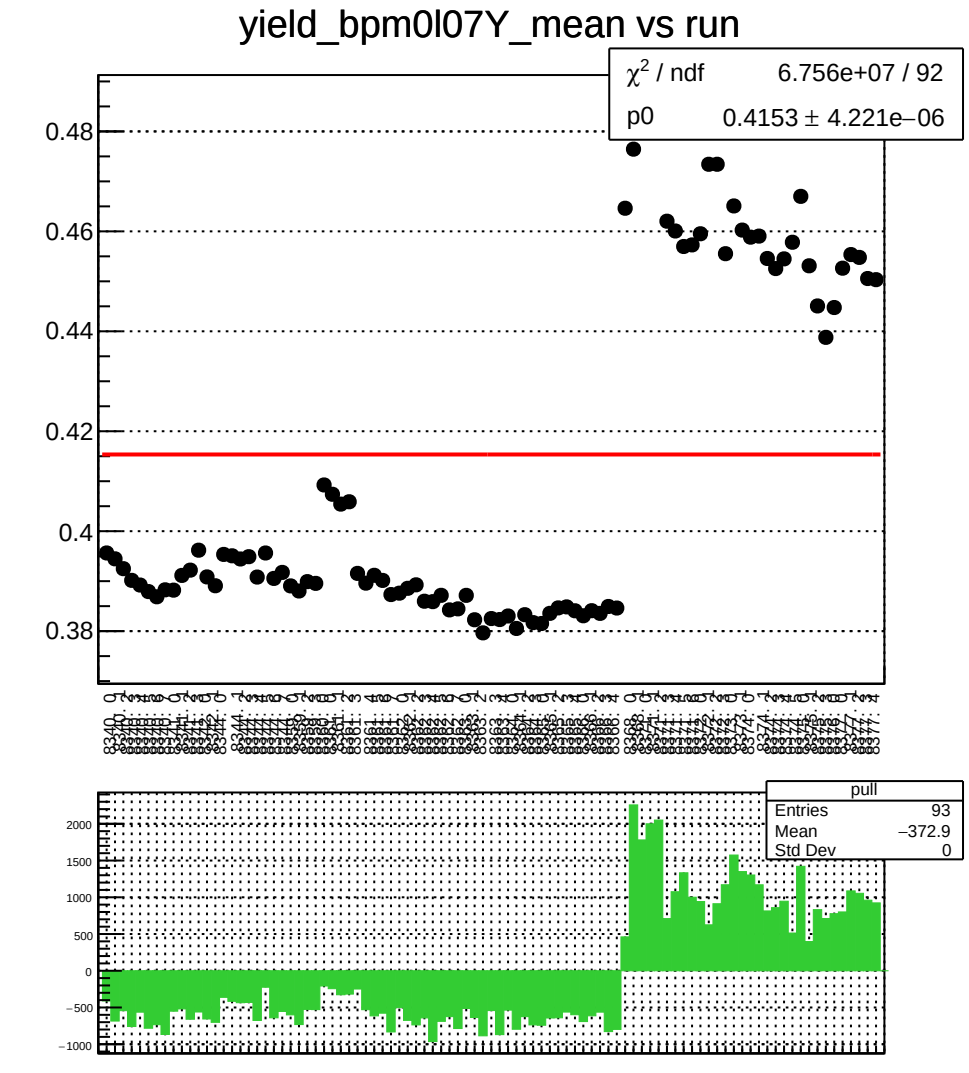

yield_bpm0l06Y_mean vs run
χ² / ndf 8.642e+07 / 92
p0 −2.288 ± 5.266e−06
−2.2
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
−2.34
pull
Entries 93
Mean −182.8
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

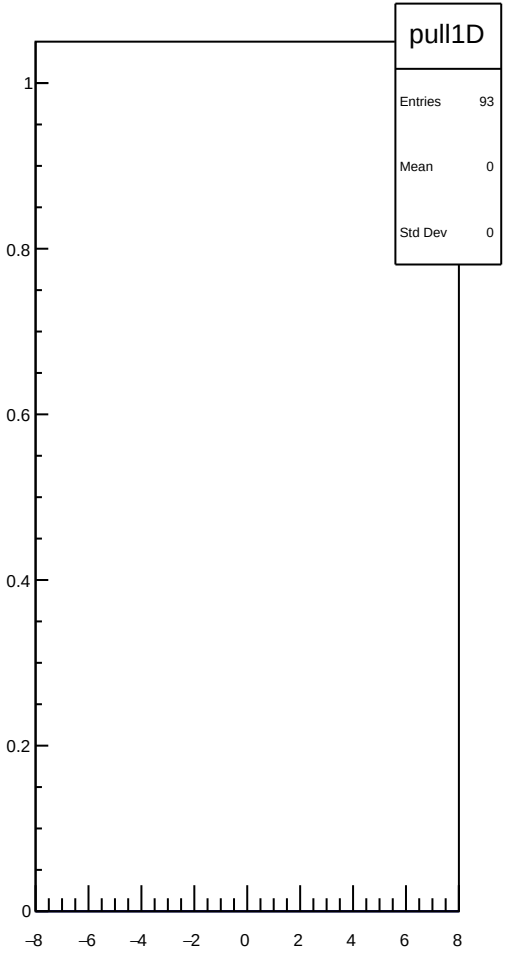

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

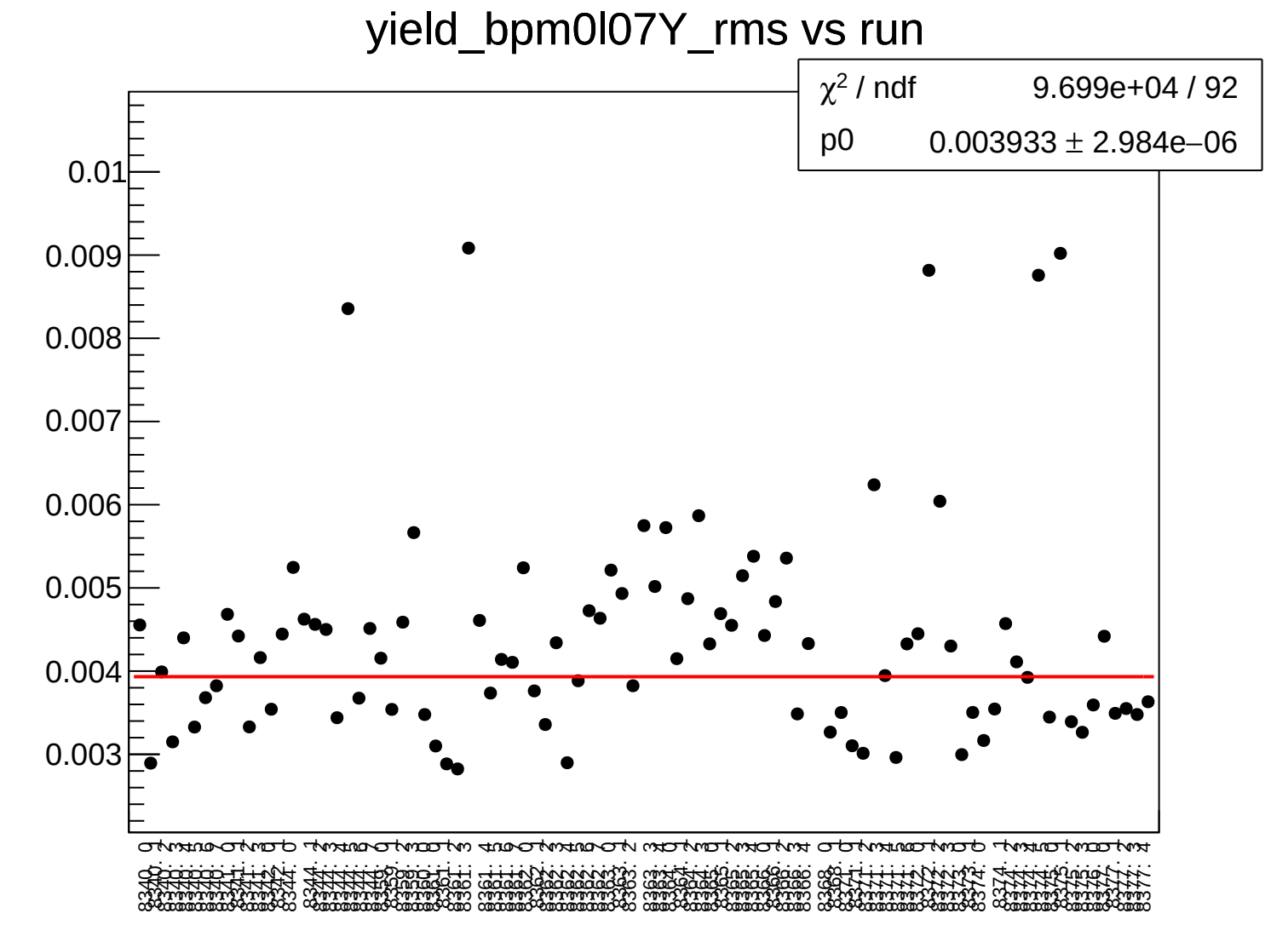

yield_bpm0l06Y_rms vs run
χ² / ndf 1.312e+05 / 92
p0 0.004859 ± 3.724e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

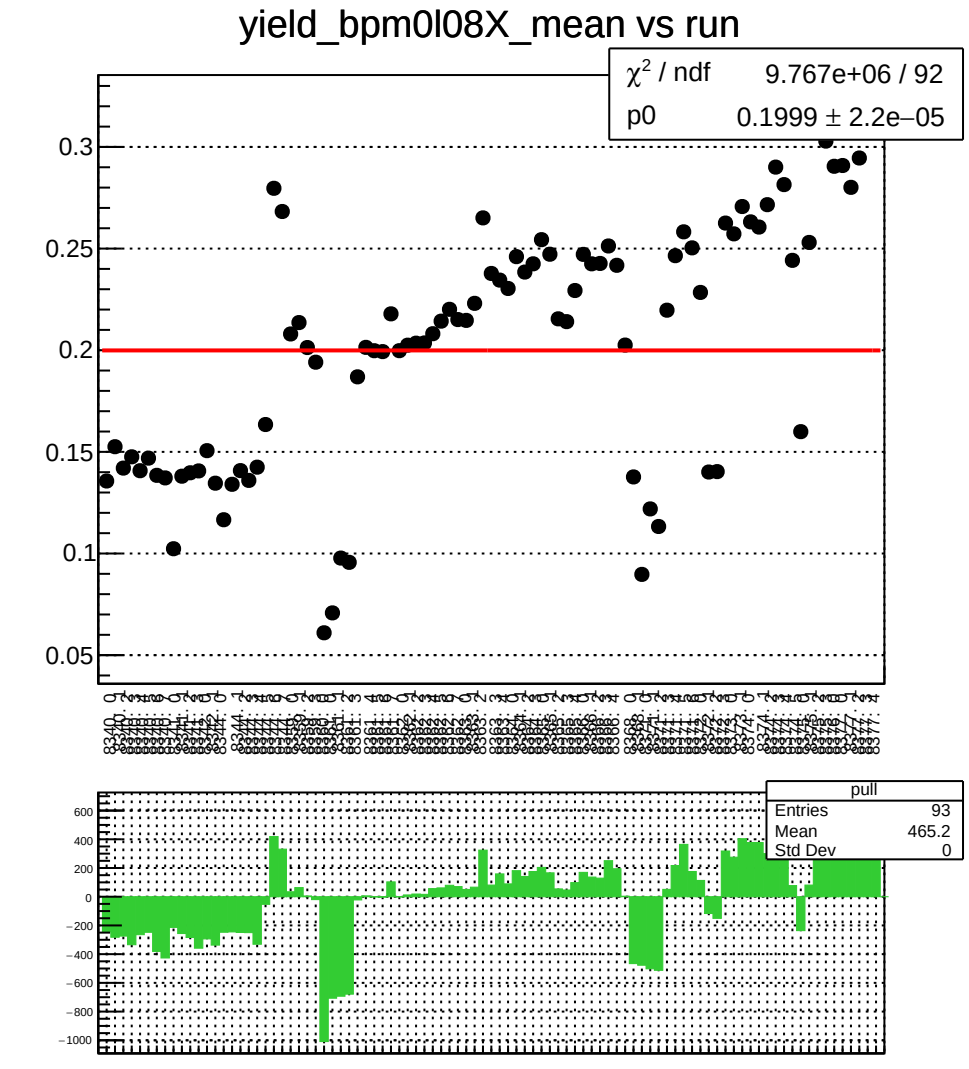

yield_bpm0l07X_mean vs run
χ² / ndf 7.86e+06 / 92
p0 −0.1133 ± 2.459e−05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 93
Mean 242.6
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 93
Mean 6.843
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

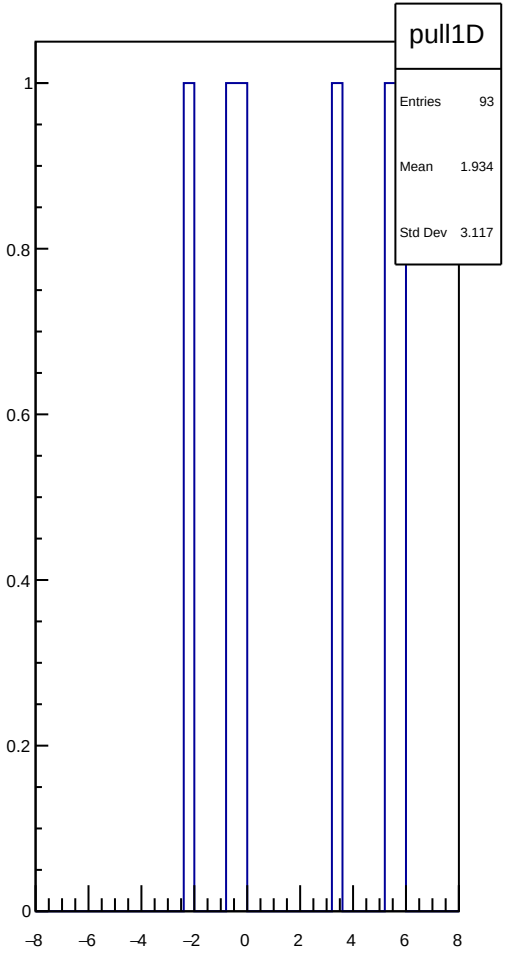

yield_bpm0l07X_rms vs run
χ² / ndf 1.591e+05 / 92
p0 0.0225 ± 1.739e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

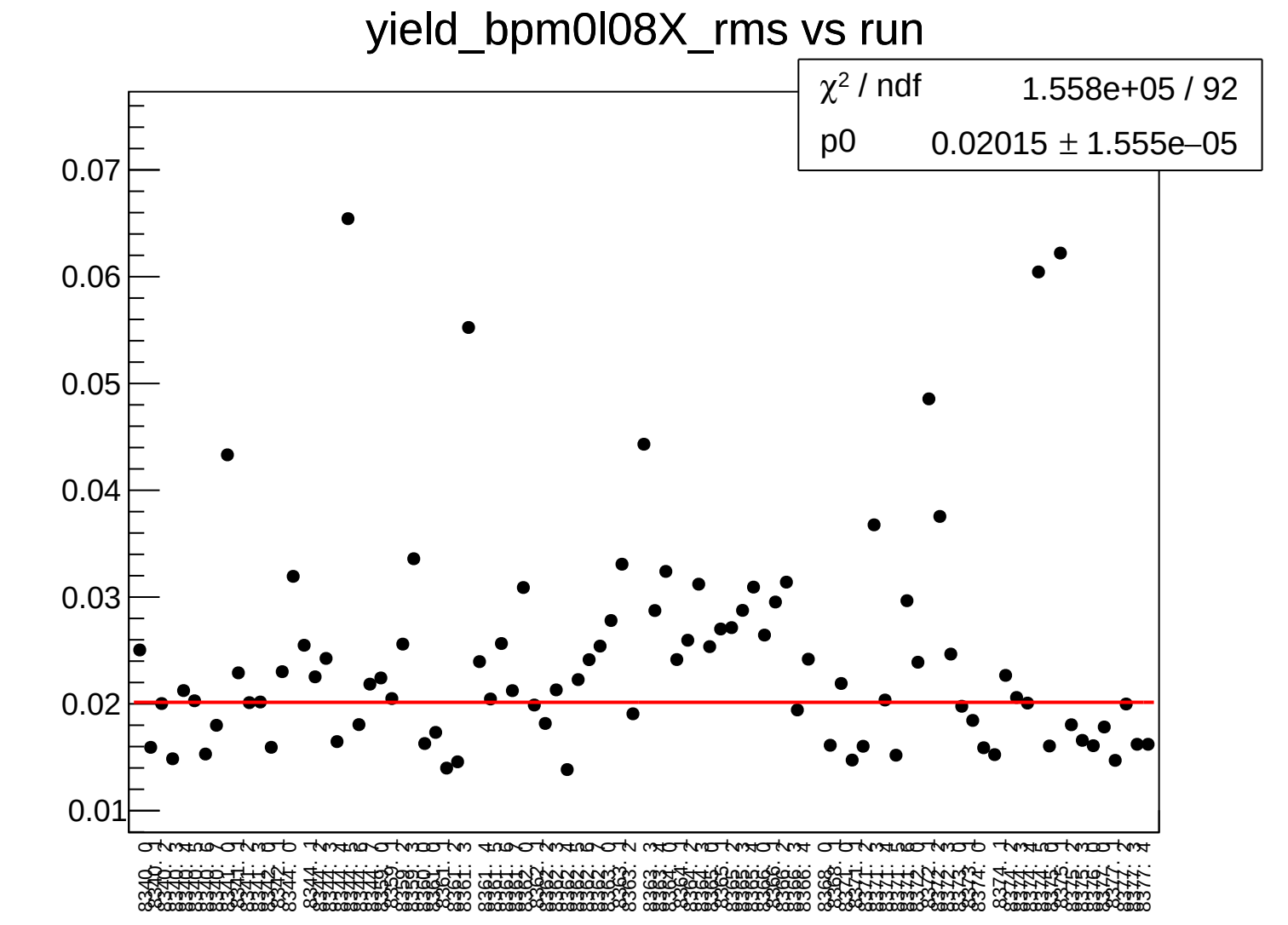

yield_bpm0l07Y_mean vs run
χ² / ndf 6.756e+07 / 92
p0 0.4153 ± 4.221e−06
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 93
Mean −372.9
Std Dev 0
2000
1500
1000
500
0
−500
−1000

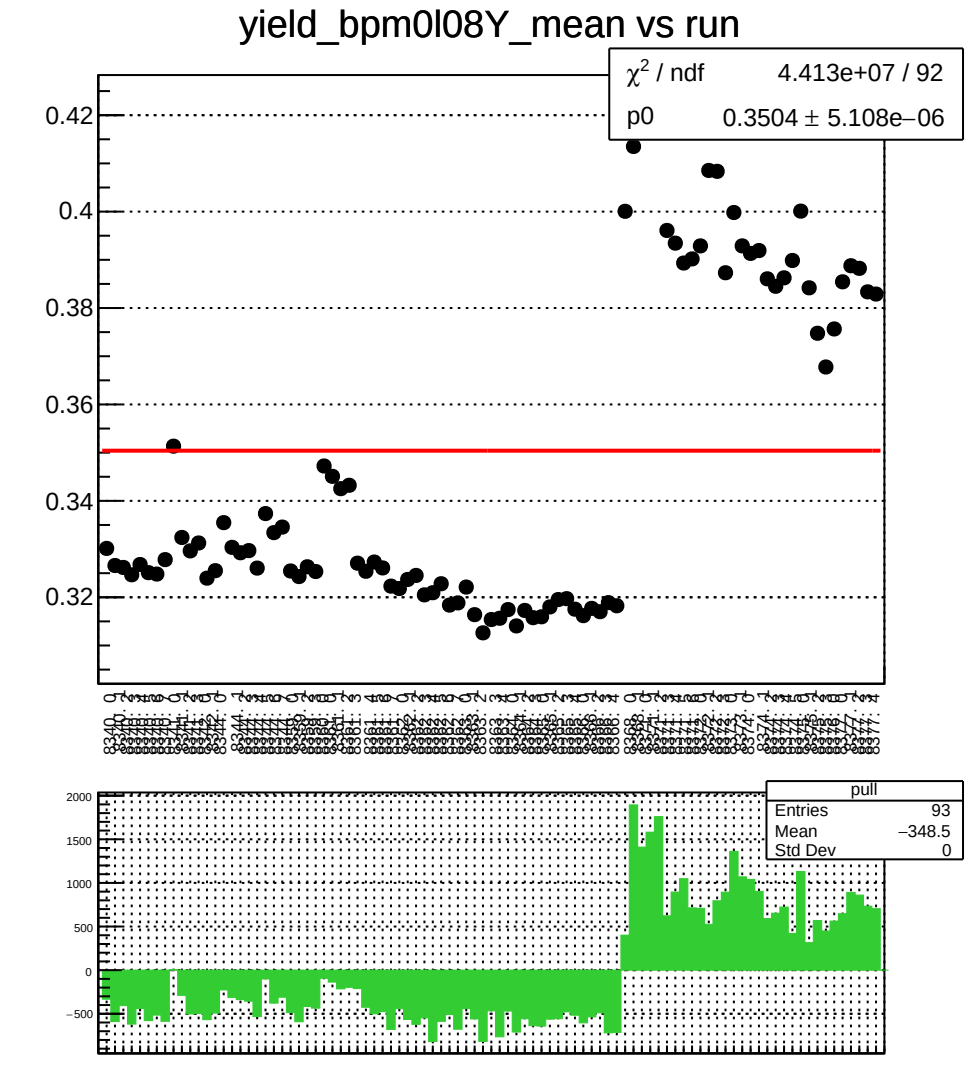

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

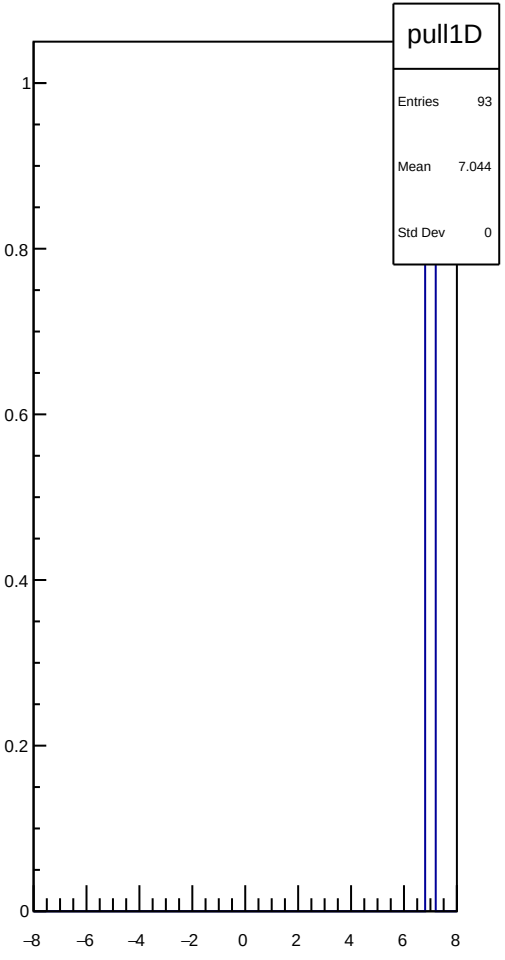

yield_bpm0l07Y_rms vs run
χ² / ndf 9.699e+04 / 92
p0 0.003933 ± 2.984e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

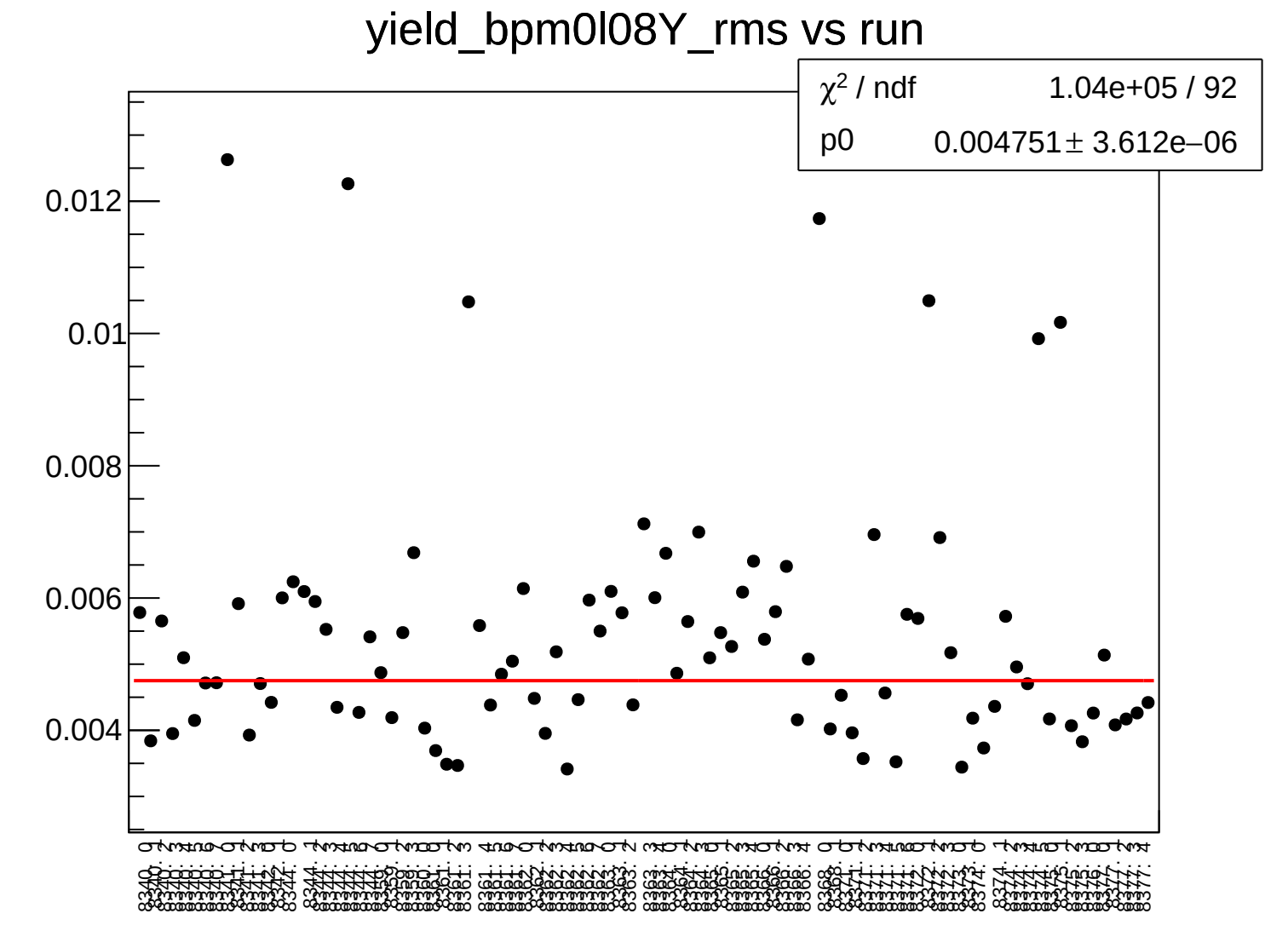

yield_bpm0l08X_mean vs run
χ² / ndf 9.767e+06 / 92
p0 0.1999 ± 2.2e−05
0.3
0.25
0.2
0.15
0.1
0.05
pull
Entries 93
Mean 465.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

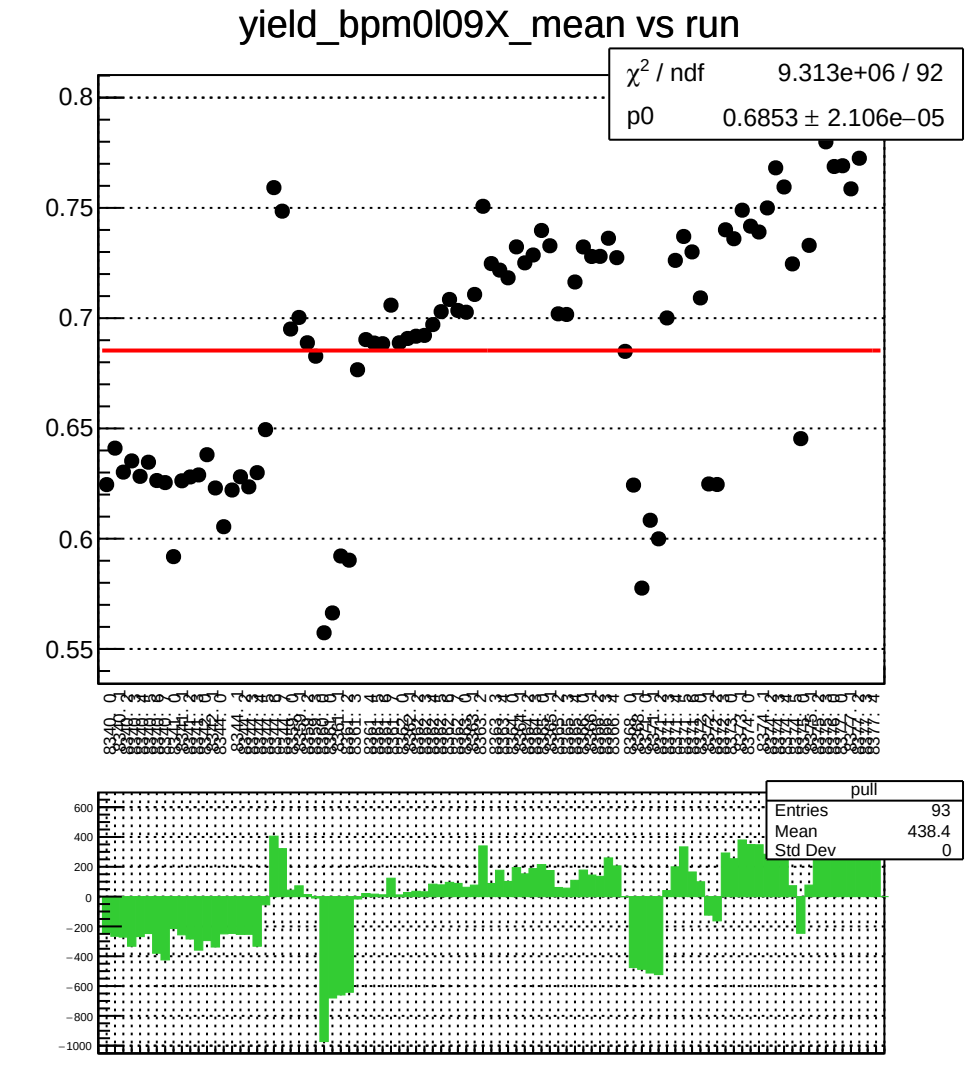

pull1D
Entries 93
Mean 1.934
Std Dev 3.117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

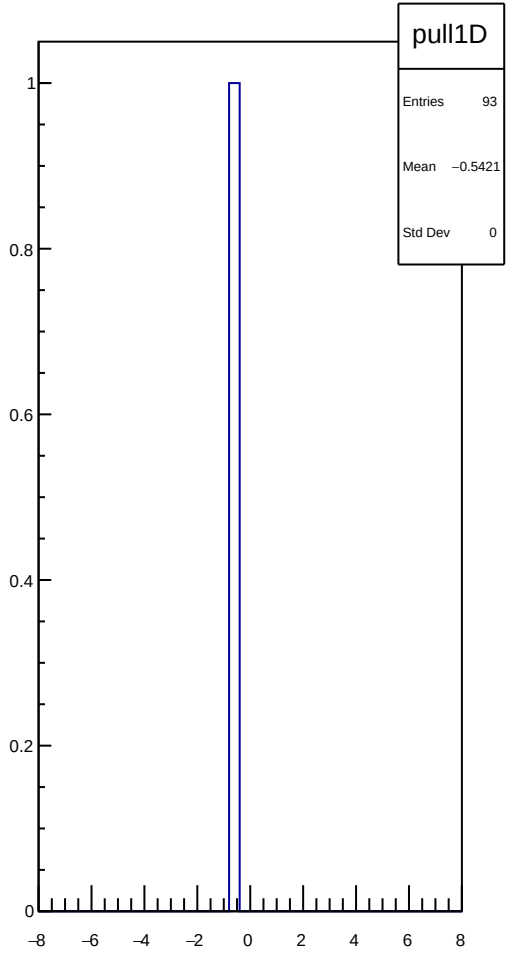

yield_bpm0l08X_rms vs run
χ² / ndf 1.558e+05 / 92
p0 0.02015 ± 1.555e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

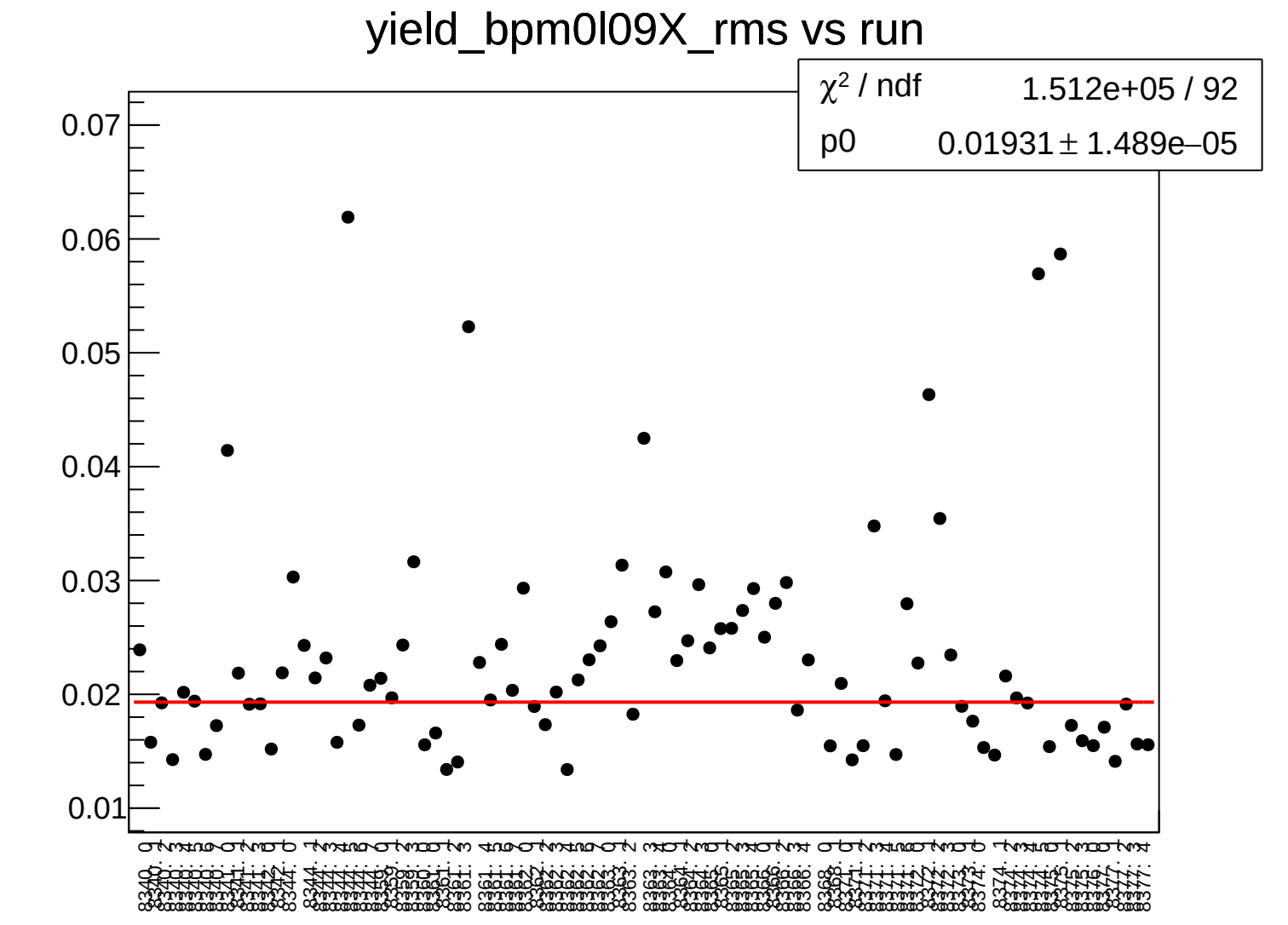

yield_bpm0l08Y_mean vs run
χ² / ndf 4.413e+07 / 92
p0 0.3504 ± 5.108e−06
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 93
Mean −348.5
Std Dev 0
2000
1500
1000
500
0
−500

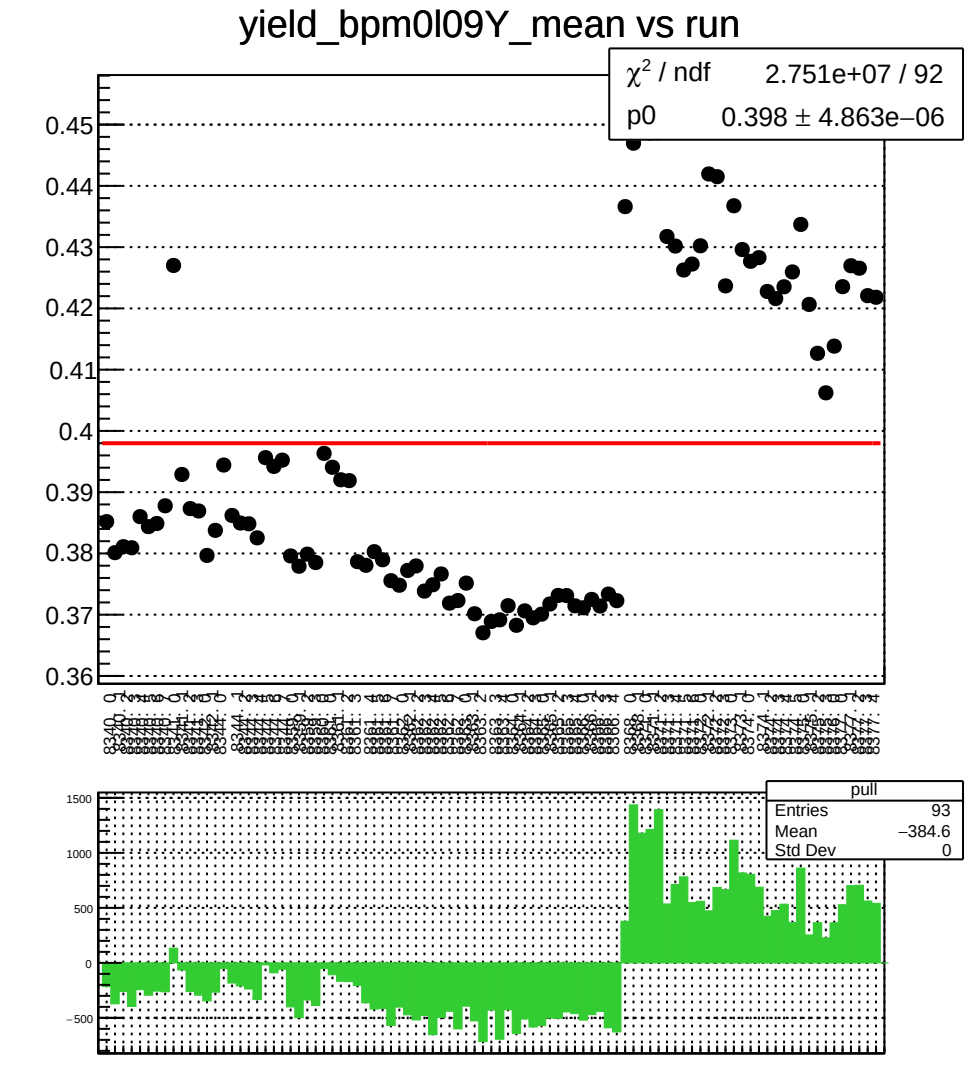

pull1D
Entries 93
Mean 7.044
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

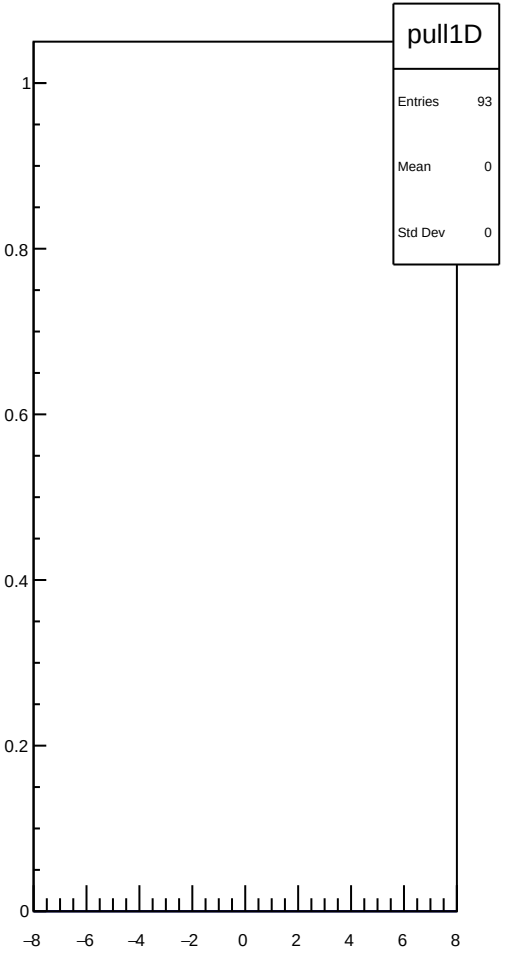

yield_bpm0l08Y_rms vs run
χ² / ndf 1.04e+05 / 92
p0 0.004751 ± 3.612e−06
0.012
0.01
0.008
0.006
0.004

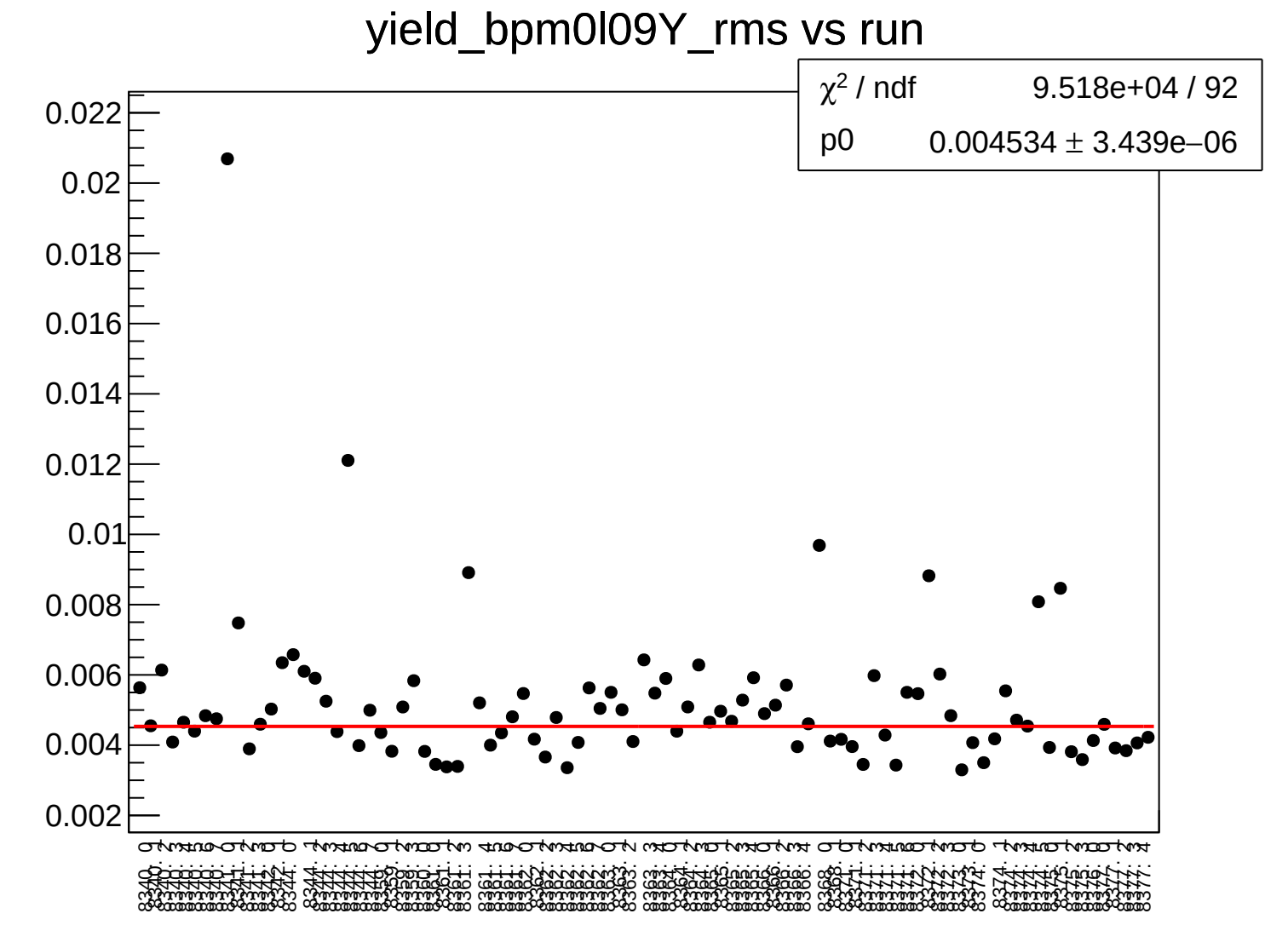

yield_bpm0l09X_mean vs run
χ² / ndf 9.313e+06 / 92
p0 0.6853 ± 2.106e−05
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 93
Mean 438.4
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

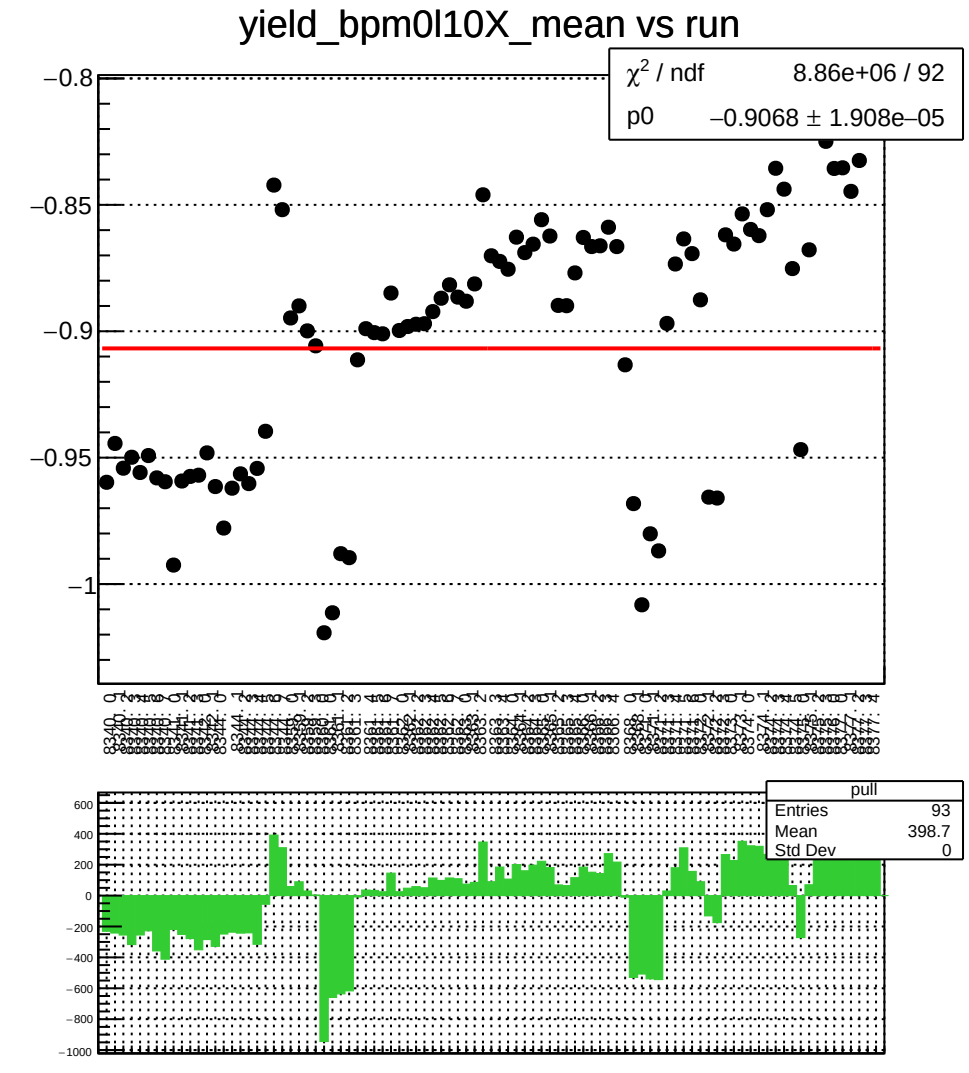

pull1D
Entries 93
Mean −0.5421
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

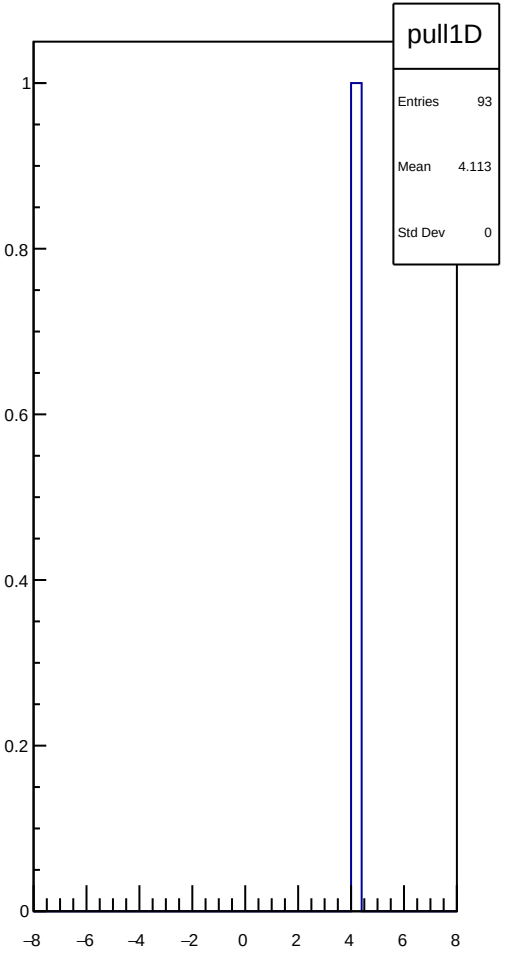

yield_bpm0l09X_rms vs run
χ² / ndf 1.512e+05 / 92
p0 0.01931 ± 1.489e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

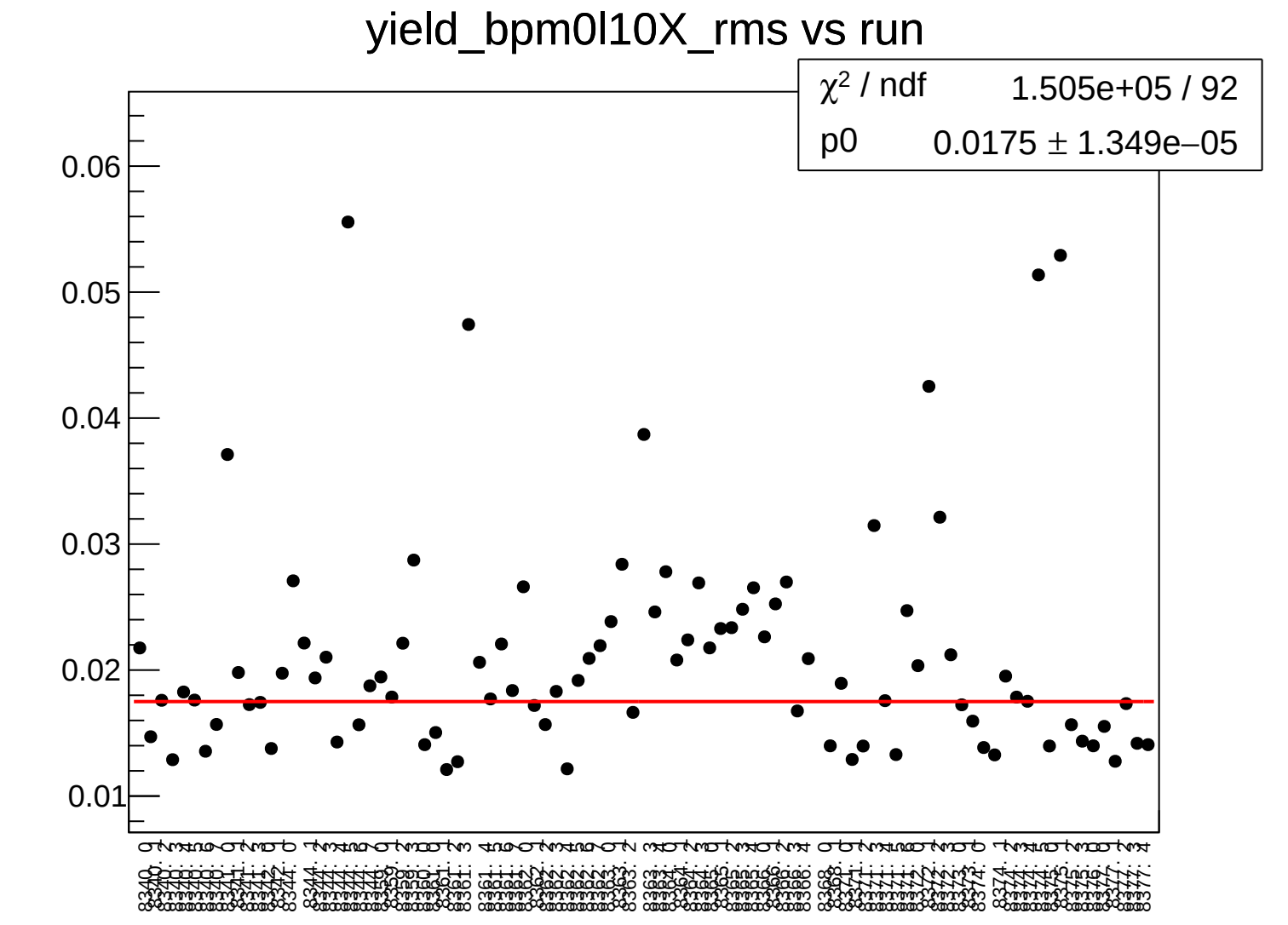

yield_bpm0l09Y_mean vs run
χ² / ndf 2.751e+07 / 92
p0 0.398 ± 4.863e−06
0.45
0.44
0.43
0.42
0.41
0.4
0.39
0.38
0.37
0.36
pull
Entries 93
Mean −384.6
Std Dev 0
1500
1000
500
0
−500

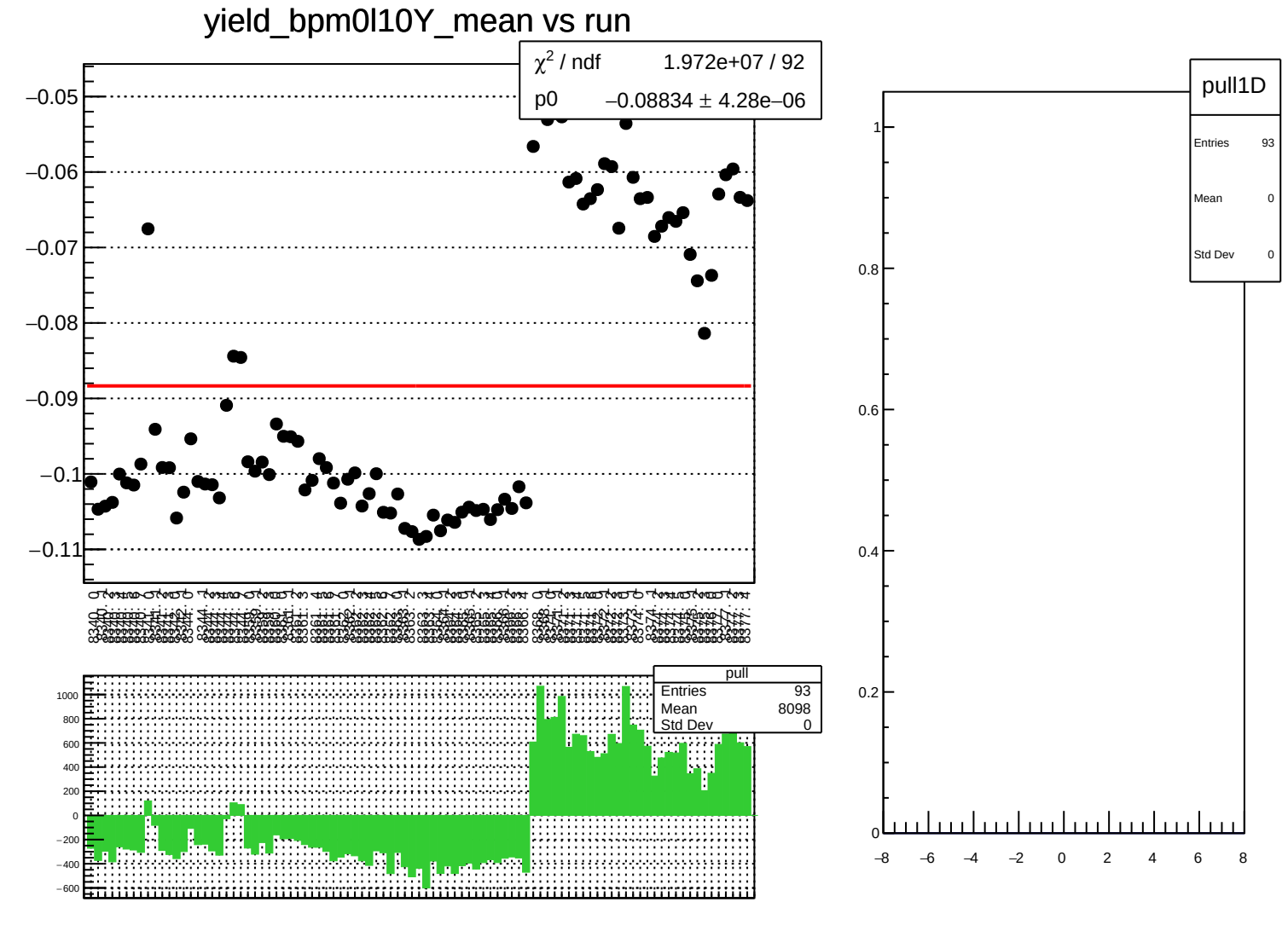

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

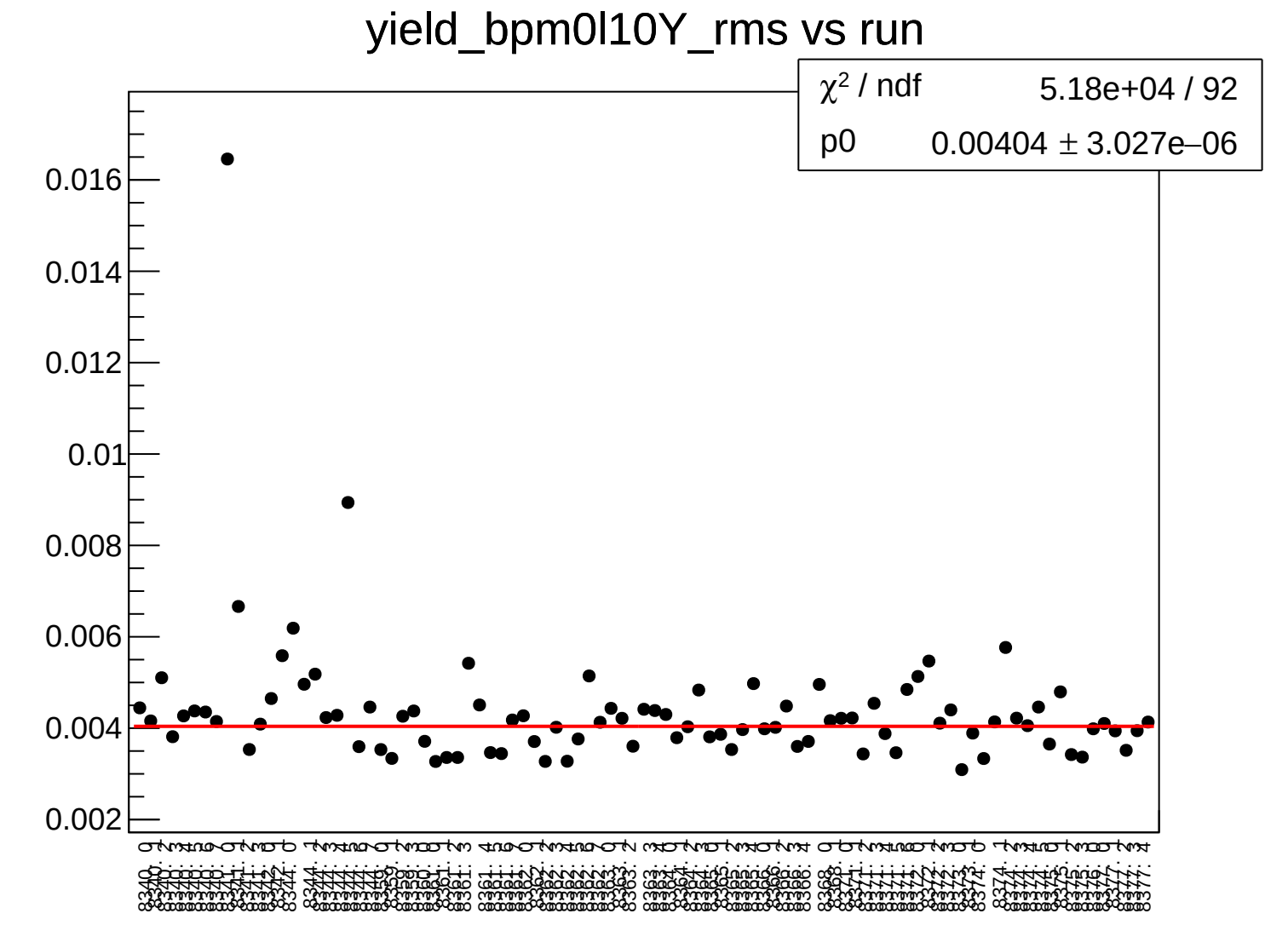

yield_bpm0l09Y_rms vs run
χ² / ndf 9.518e+04 / 92
p0 0.004534 ± 3.439e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

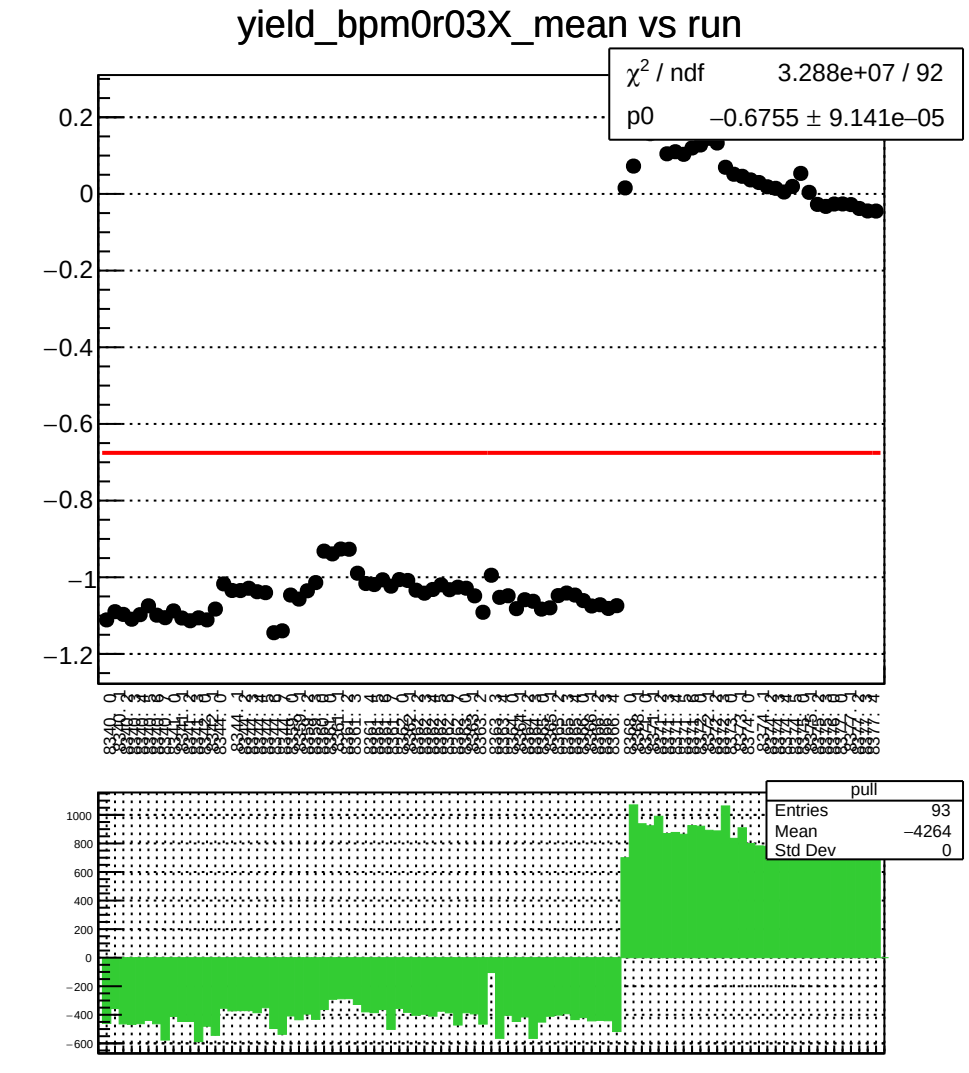

yield_bpm0l10X_mean vs run
χ² / ndf 8.86e+06 / 92
p0 −0.9068 ± 1.908e−05
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 93
Mean 398.7
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

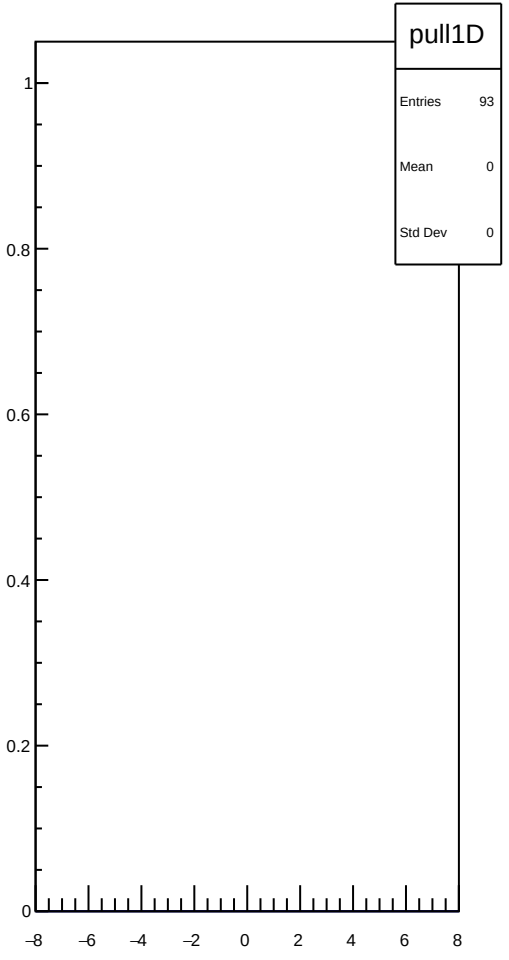

pull1D
Entries 93
Mean 4.113
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

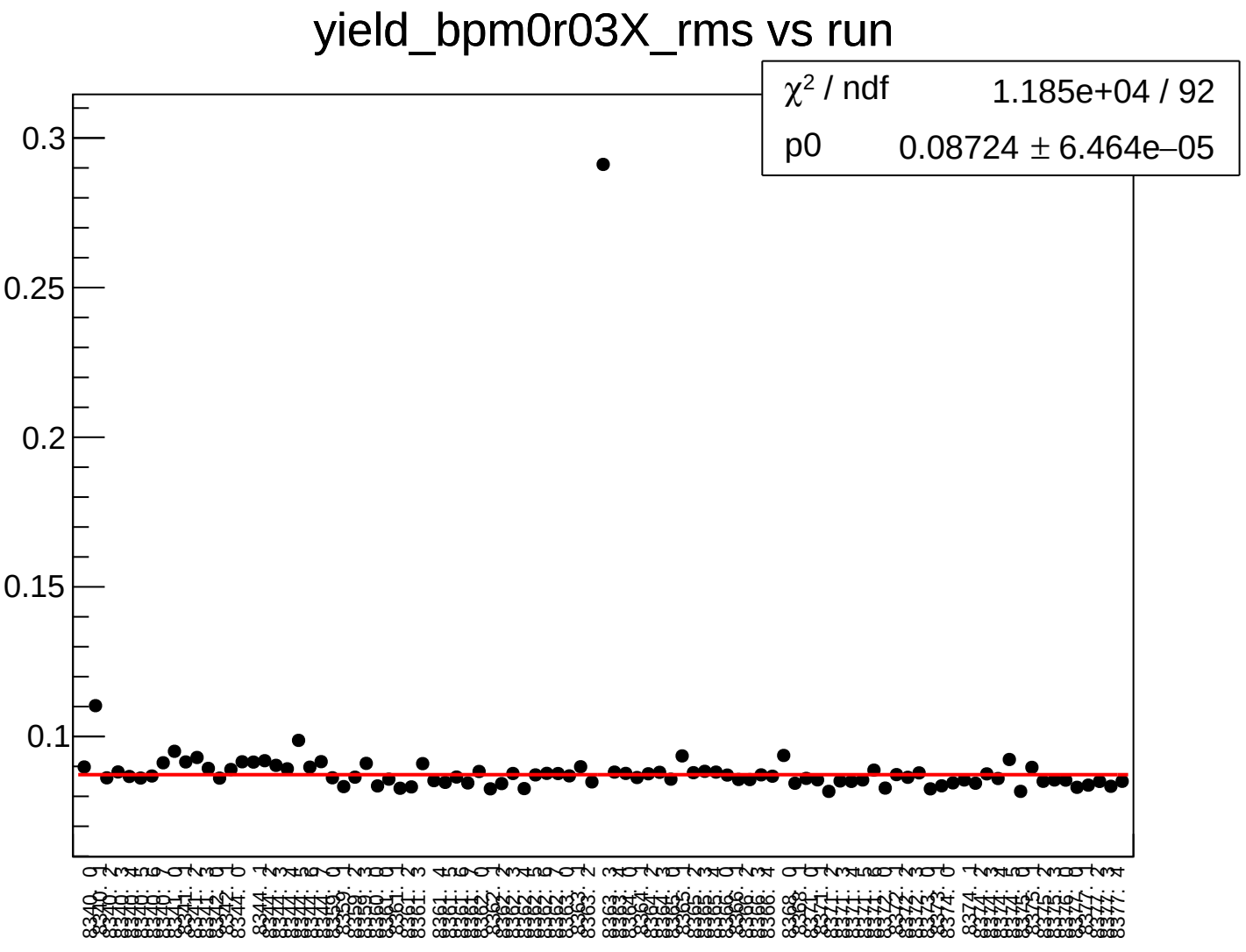

yield_bpm0l10X_rms vs run
χ² / ndf 1.505e+05 / 92
p0 0.0175 ± 1.349e−05
0.06
0.05
0.04
0.03
0.02
0.01

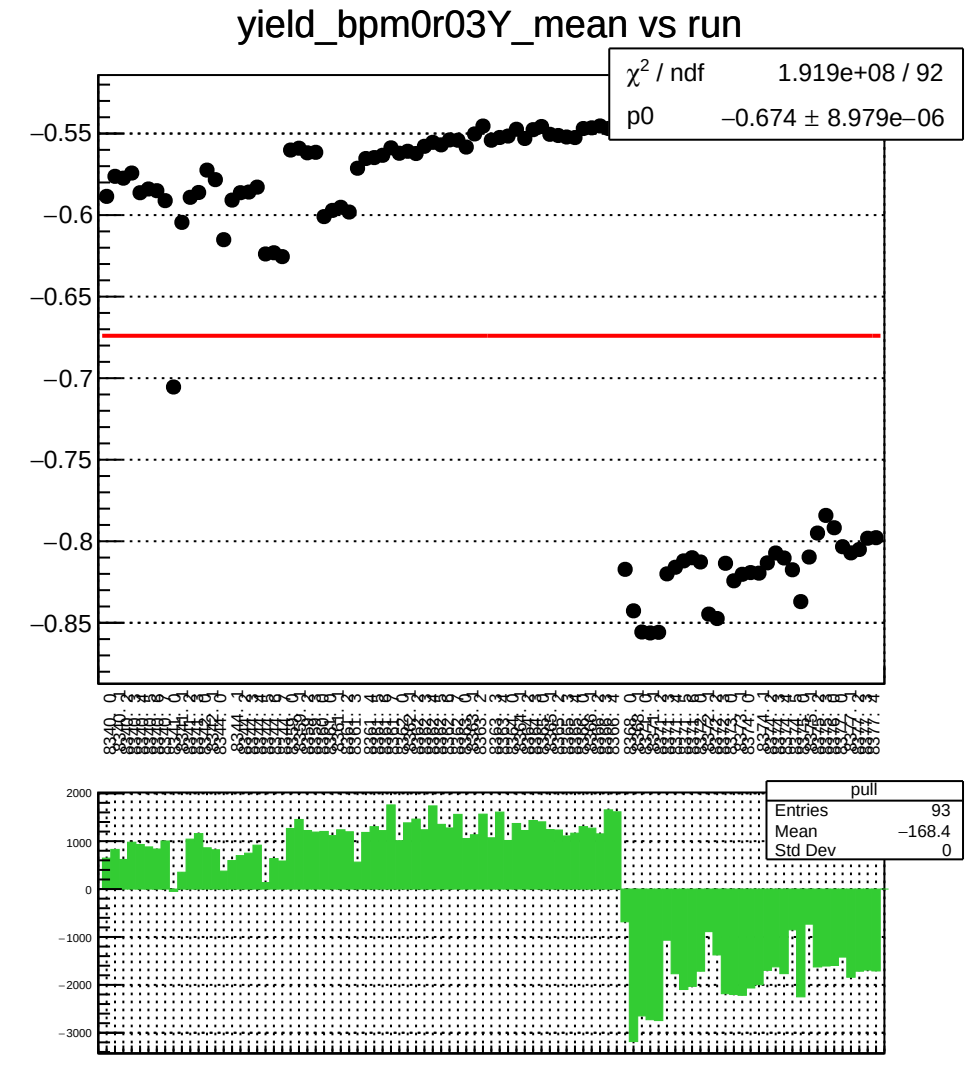

yield_bpm0l10Y_mean vs run
χ² / ndf 1.972e+07 / 92
p0 −0.08834 ± 4.28e−06
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
pull
Entries 93
Mean 8098
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

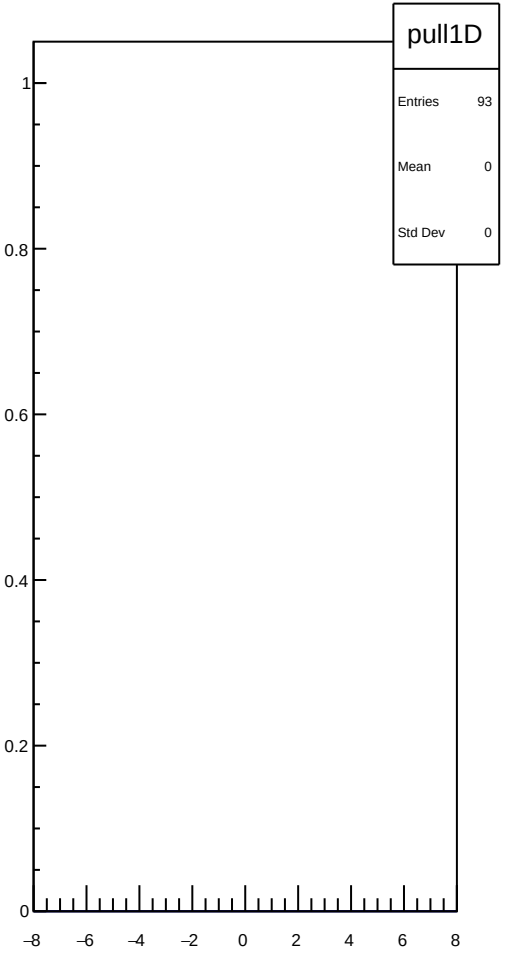

yield_bpm0l10Y_rms vs run
χ² / ndf 5.18e+04 / 92
p0 0.00404 ± 3.027e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

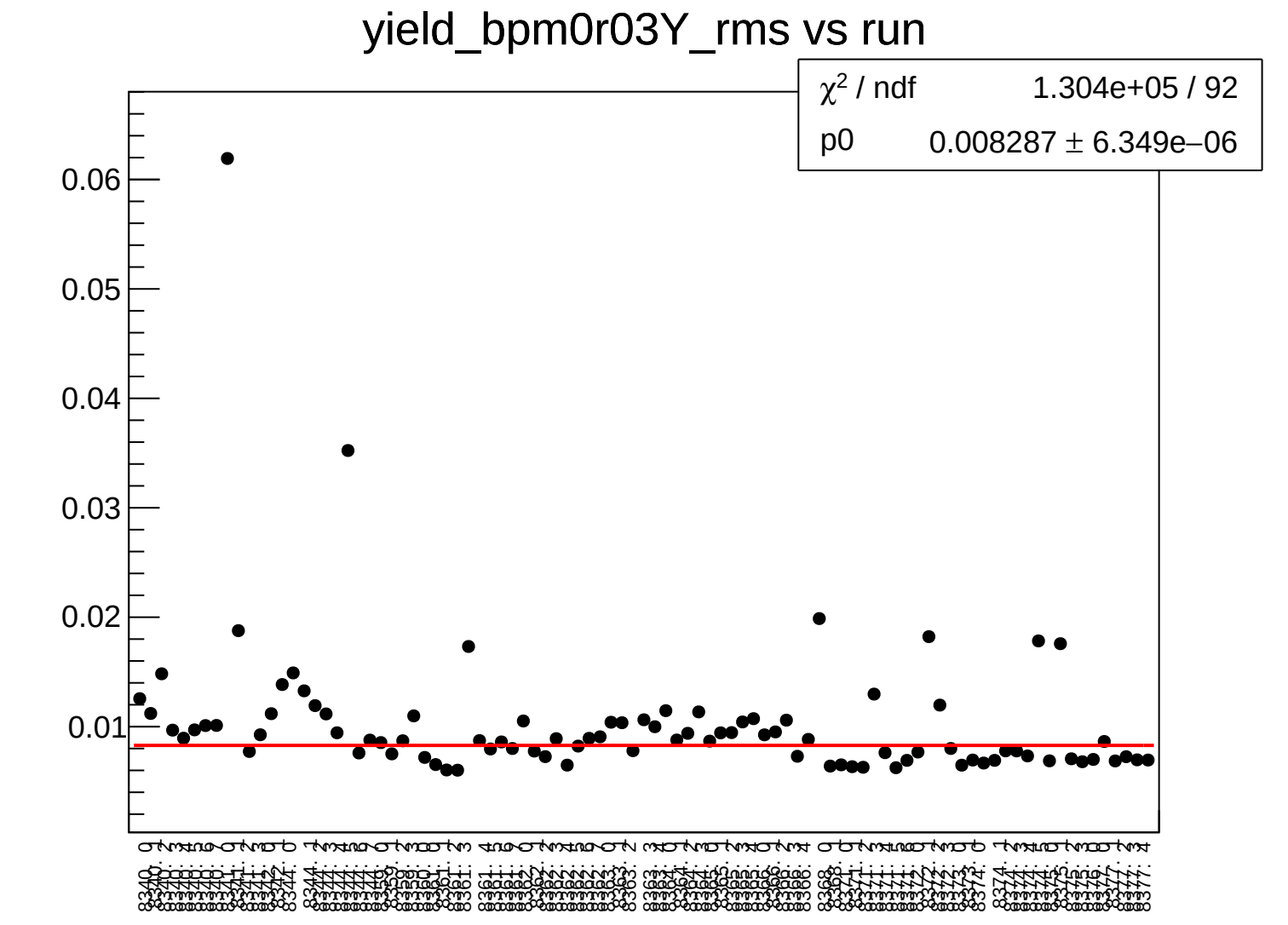

yield_bpm0r03X_mean vs run
χ² / ndf 3.288e+07 / 92
p0 −0.6755 ± 9.141e−05
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 93
Mean −4264
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

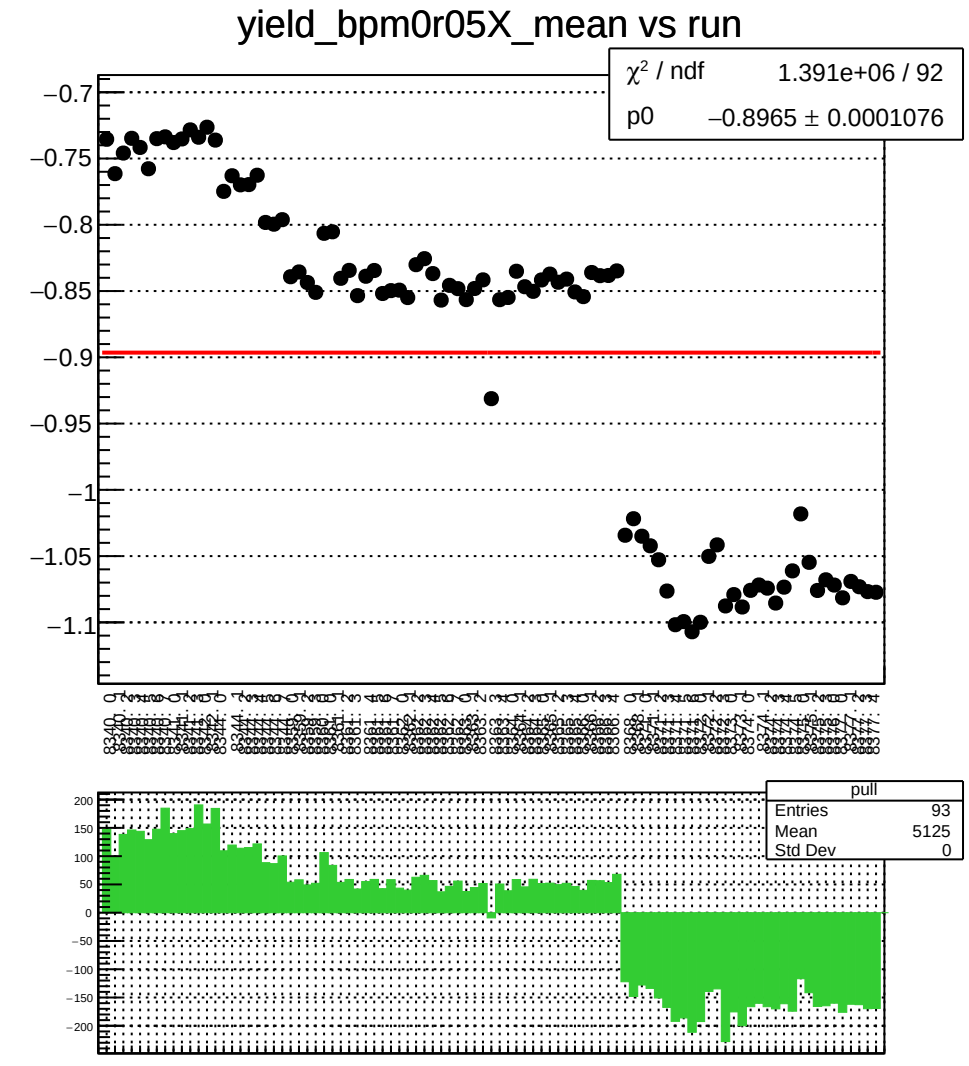

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

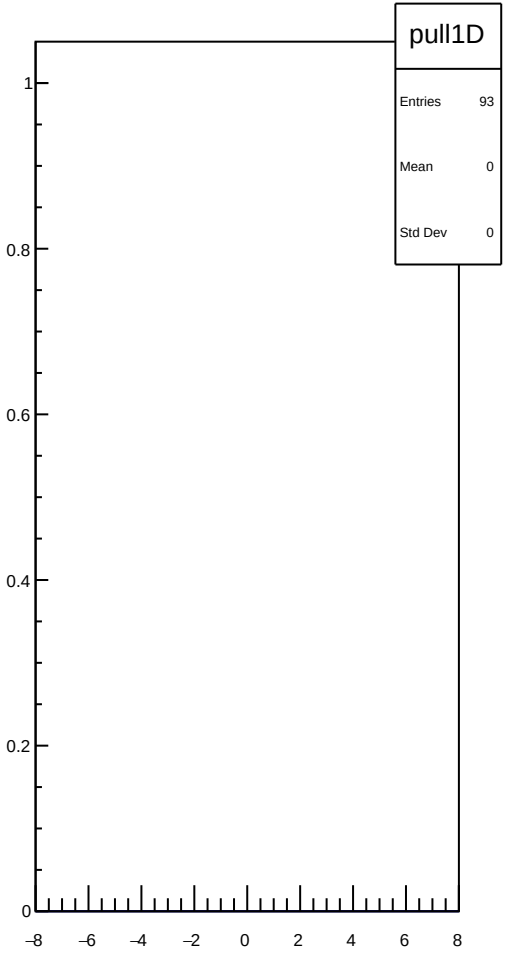

yield_bpm0r03X_rms vs run
χ² / ndf 1.185e+04 / 92
p0 0.08724 ± 6.464e−05
0.3
0.25
0.2
0.15
0.1

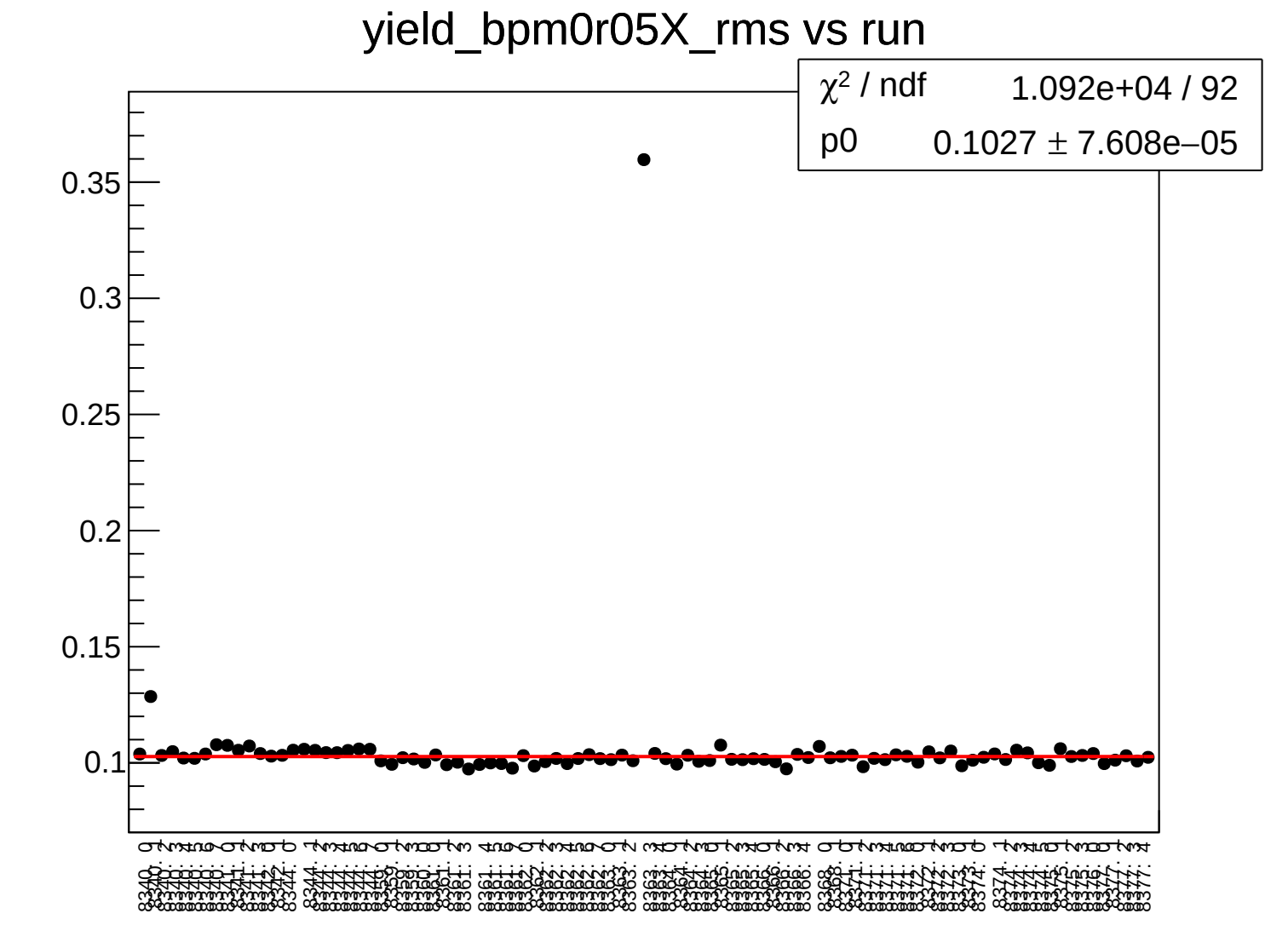

yield_bpm0r03Y_mean vs run
χ² / ndf 1.919e+08 / 92
p0 −0.674 ± 8.979e−06
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 93
Mean −168.4
Std Dev 0
2000
1000
0
−1000
−2000
−3000

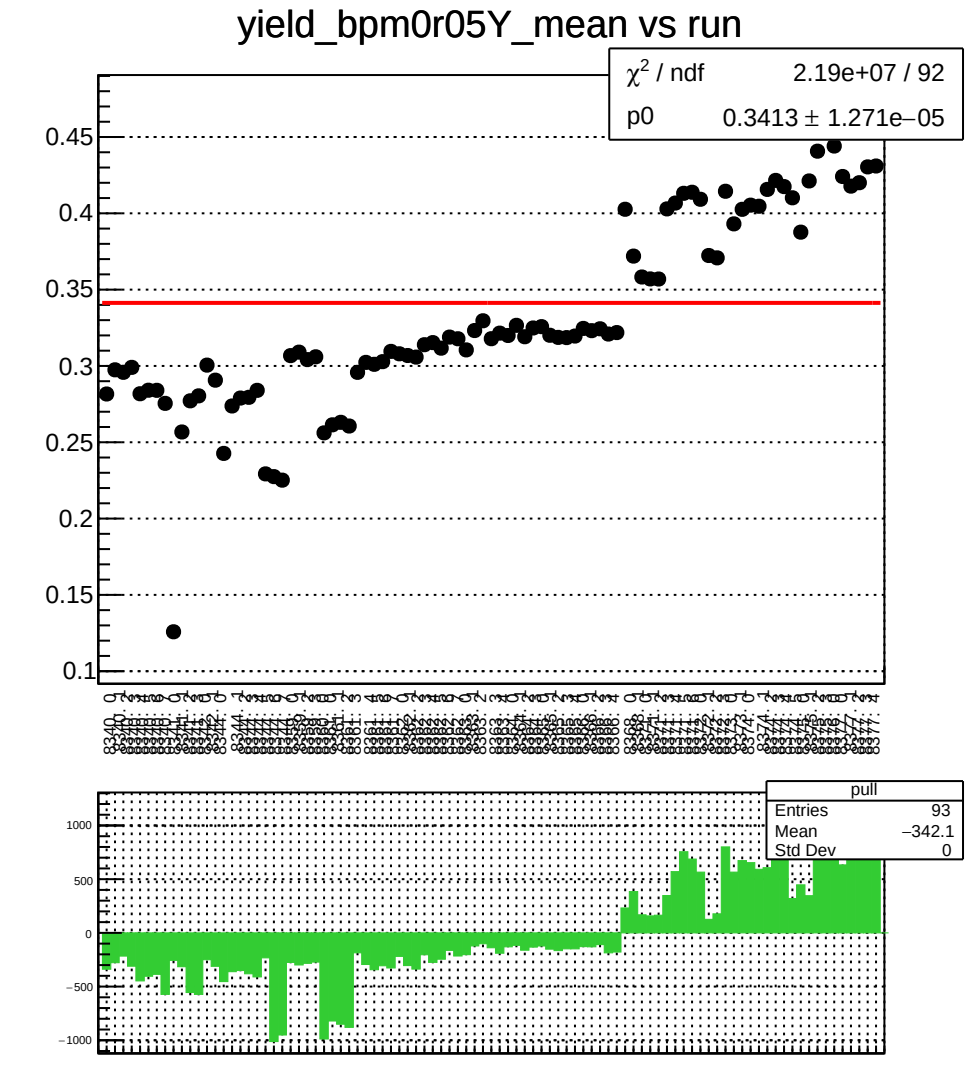

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

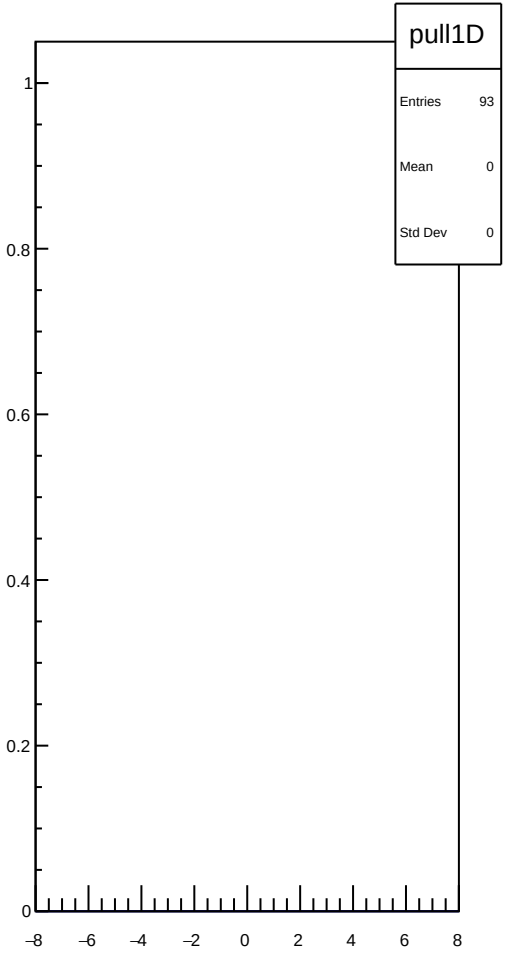

yield_bpm0r03Y_rms vs run
χ^2 / ndf 1.304e+05 / 92
p0 0.008287 ± 6.349e−06
0.06
0.05
0.04
0.03
0.02
0.01

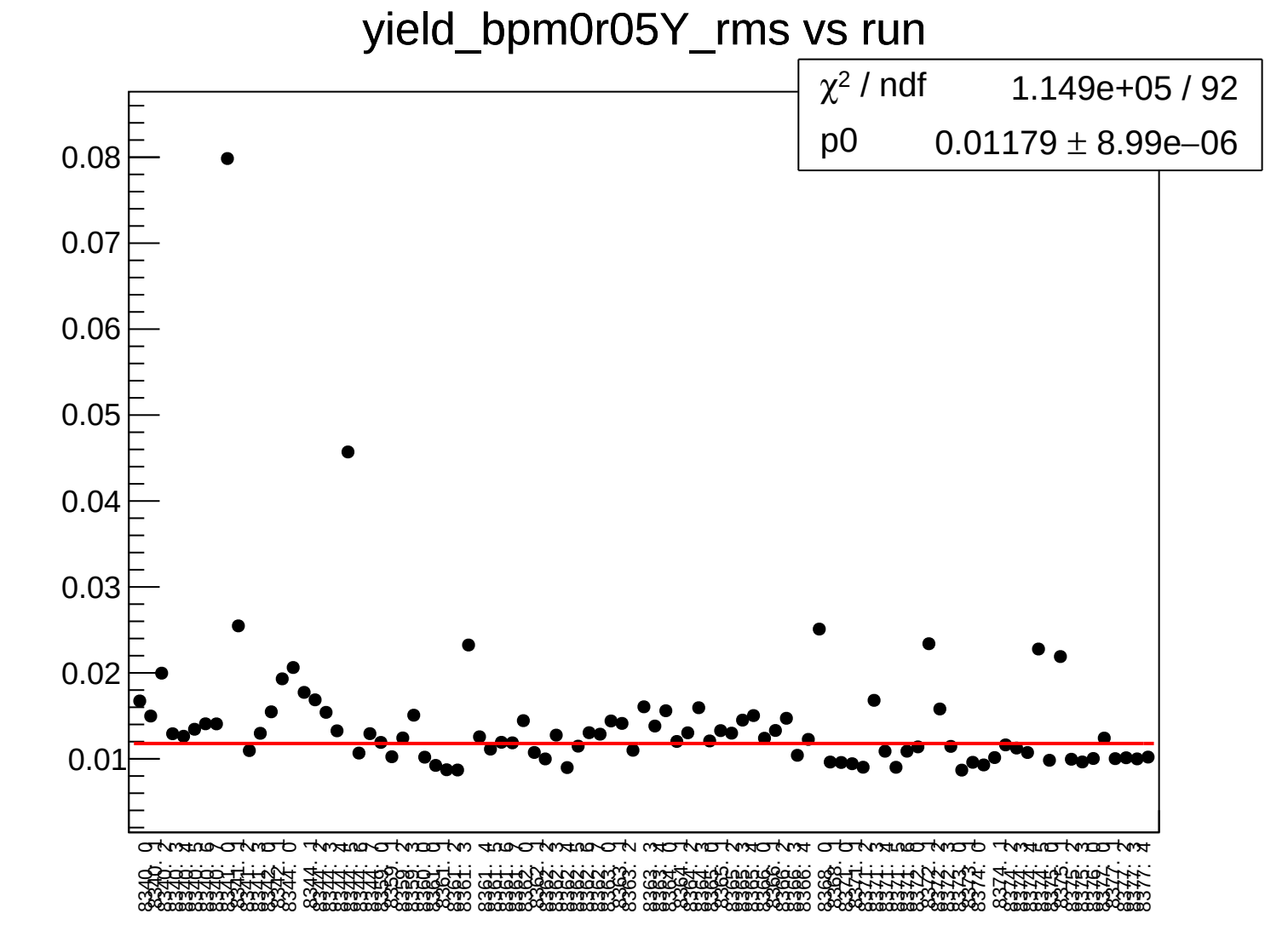

yield_bpm0r05X_mean vs run
χ² / ndf 1.391e+06 / 92
p0 −0.8965 ± 0.0001076
pull
Entries 93
Mean 5125
Std Dev 0

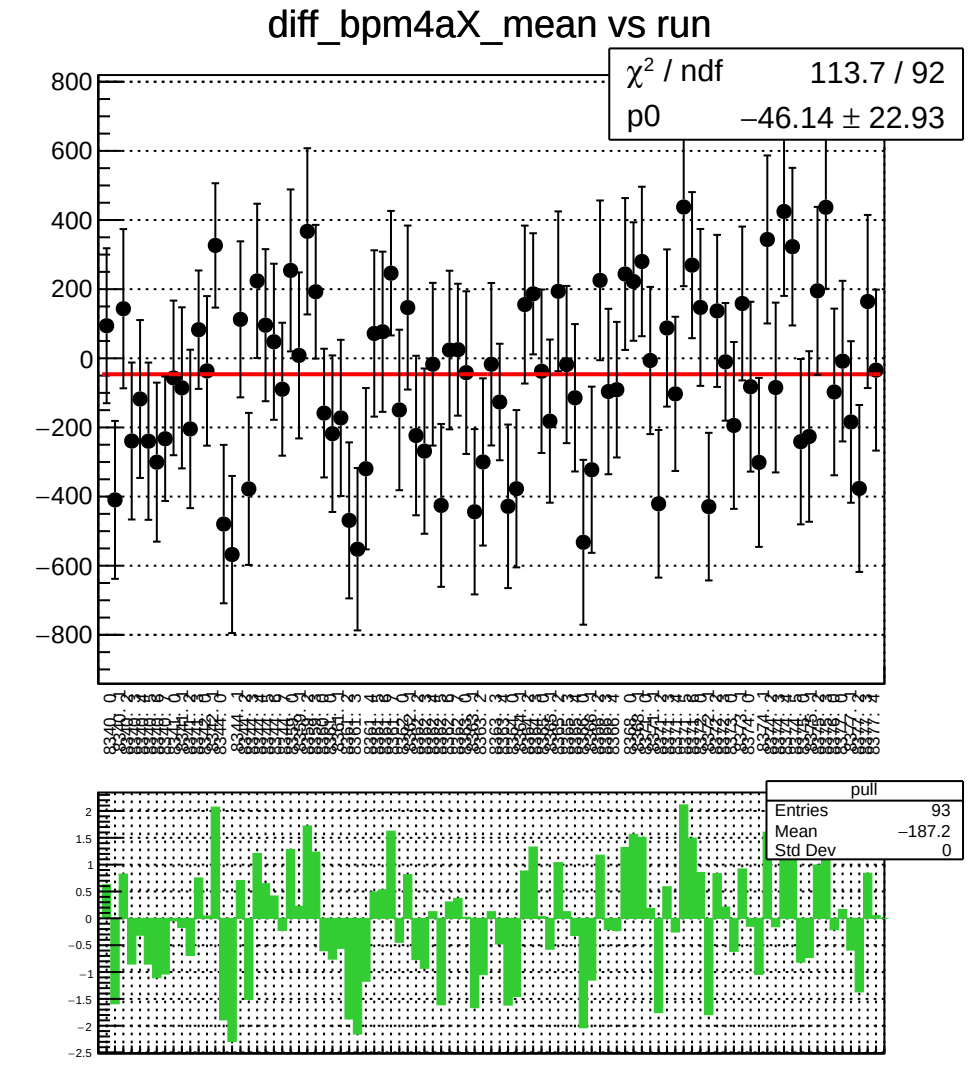

pull1D
Entries 93
Mean 0
Std Dev 0

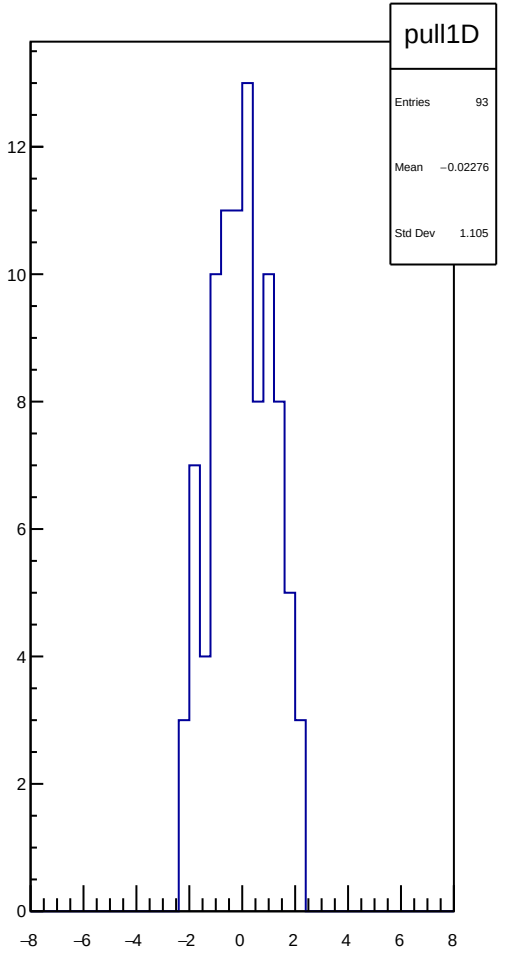

yield_bpm0r05X_rms vs run
χ² / ndf 1.092e+04 / 92
p0 0.1027 ± 7.608e−05
0.35
0.3
0.25
0.2
0.15
0.1

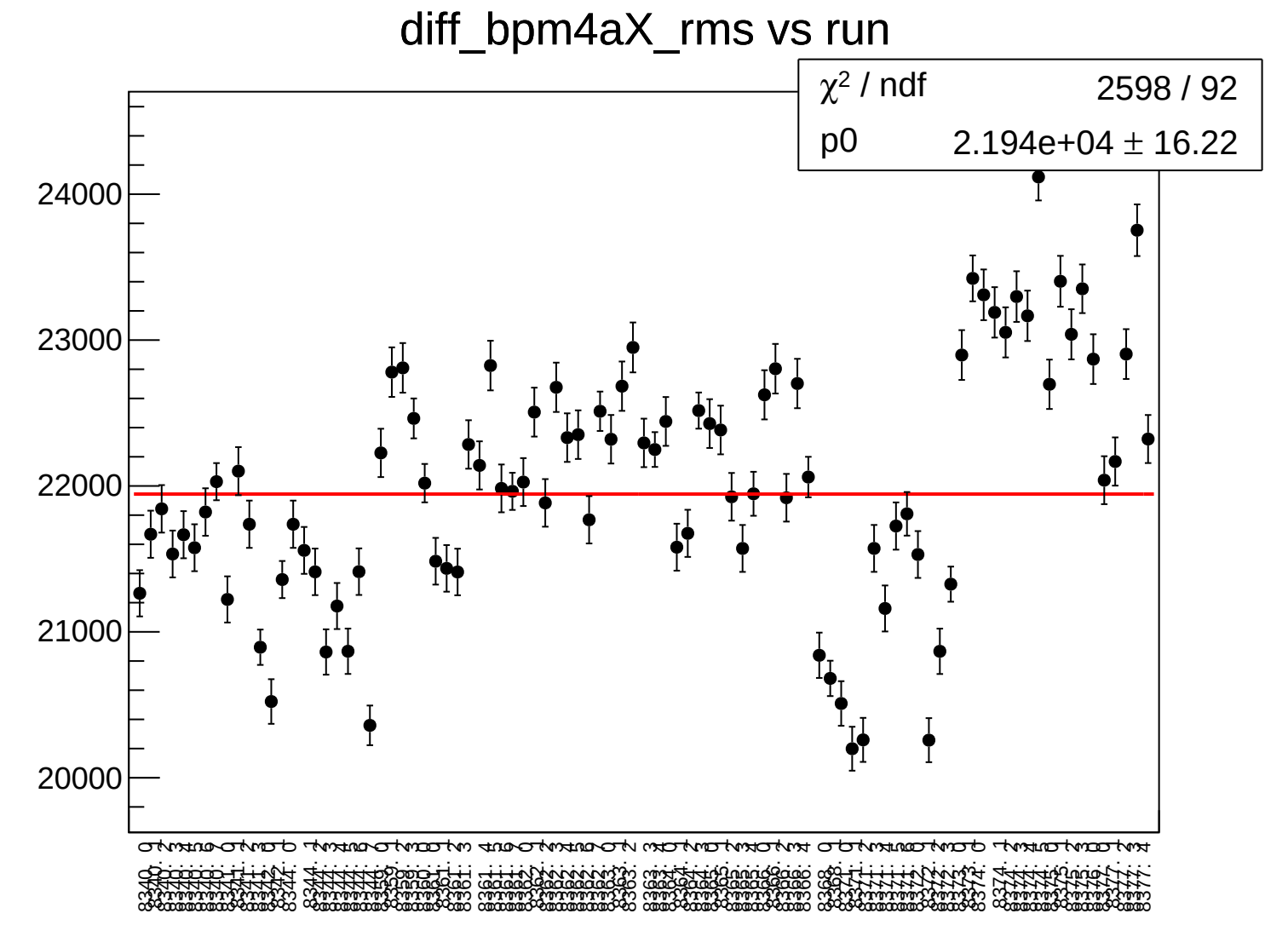

yield_bpm0r05Y_mean vs run
χ² / ndf 2.19e+07 / 92
p0 0.3413 ± 1.271e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
pull
Entries 93
Mean −342.1
Std Dev 0
1000
500
0
−500
−1000

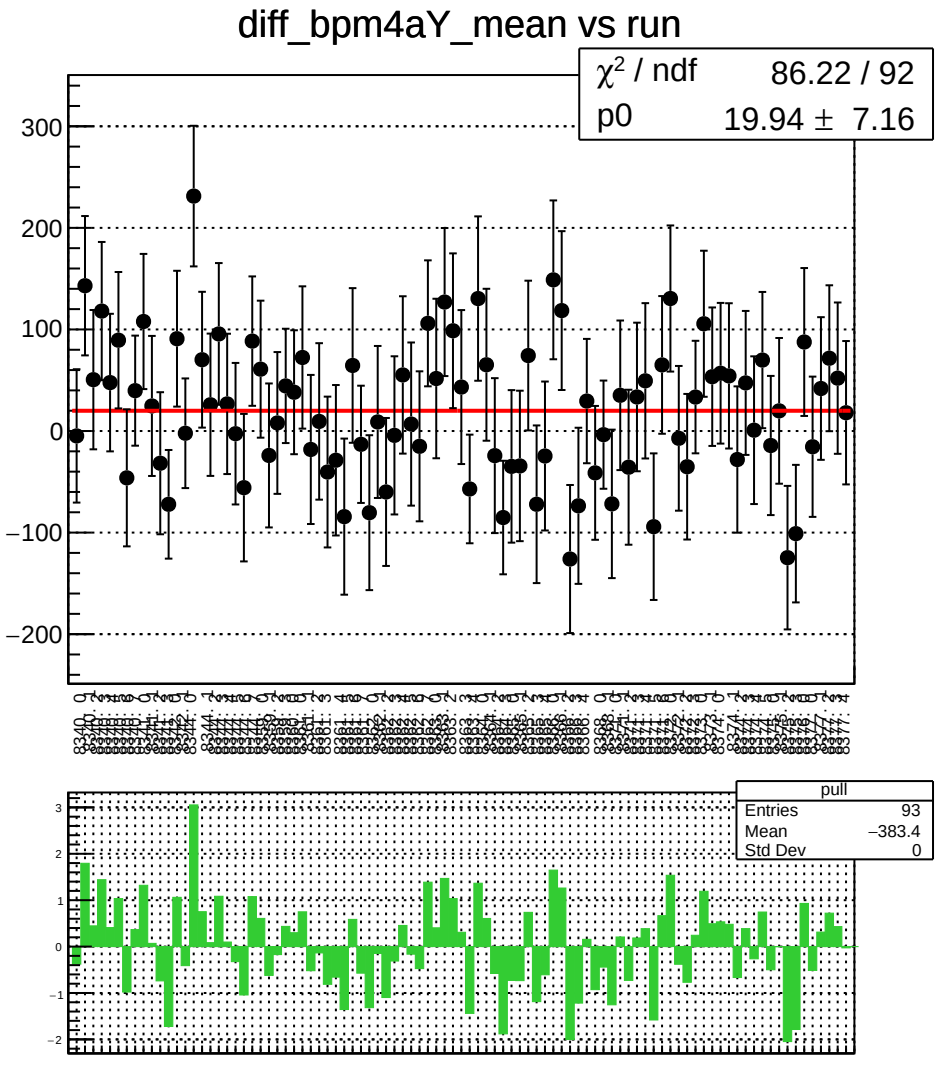

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

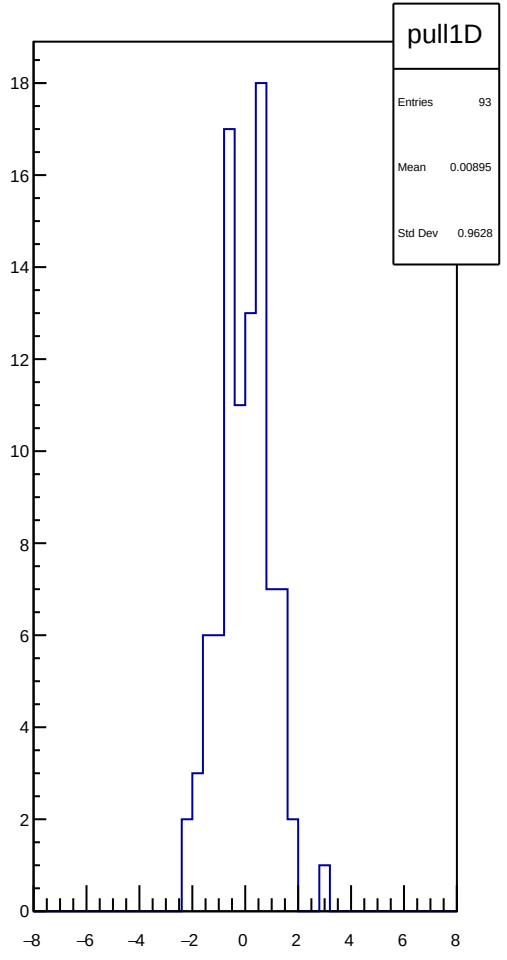

yield_bpm0r05Y_rms vs run
χ² / ndf 1.149e+05 / 92
p0 0.01179 ± 8.99e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

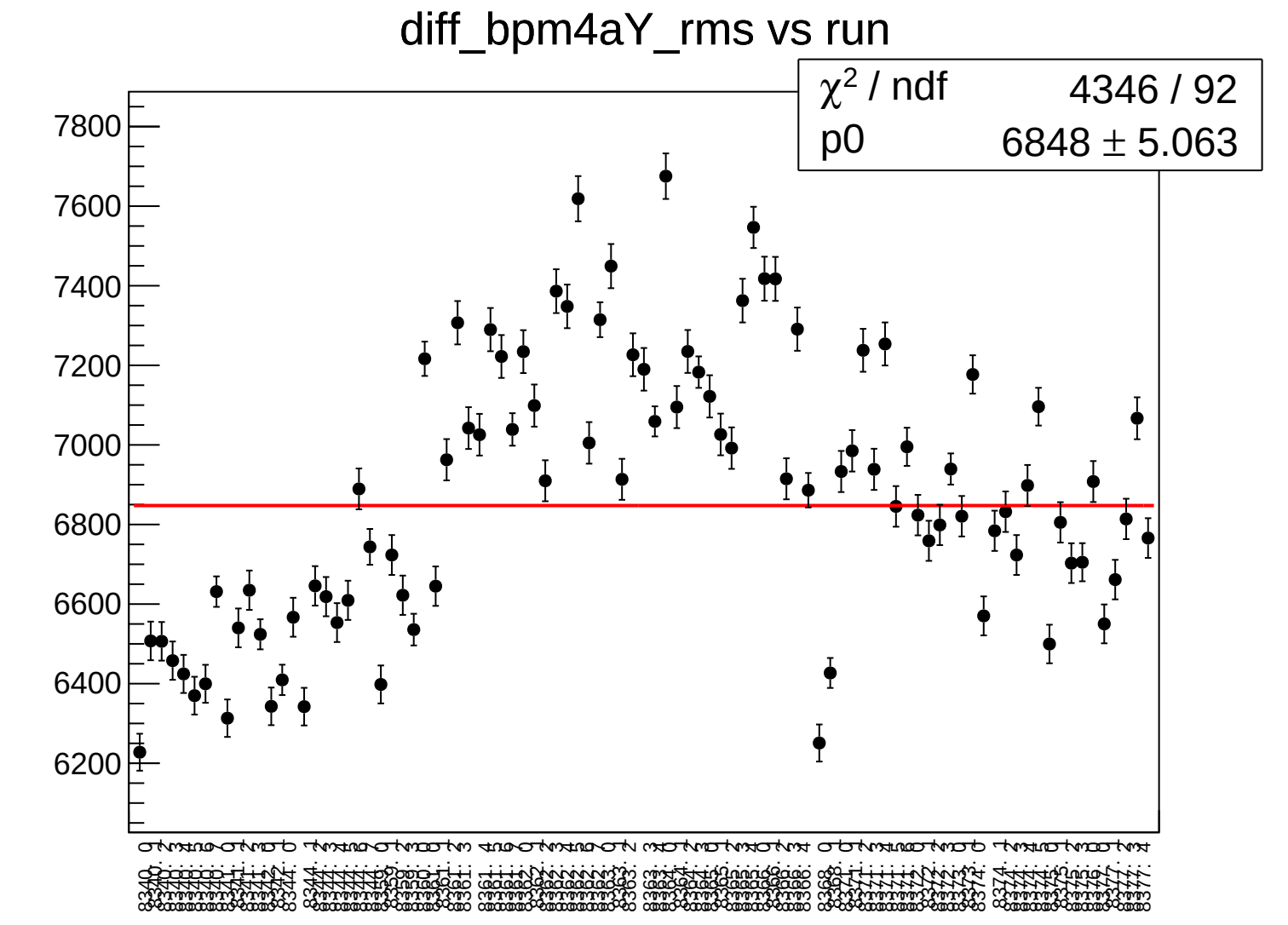

diff_bpm4aX_mean vs run
χ² / ndf 113.7 / 92
p0 −46.14 ± 22.93
pull
Entries 93
Mean −187.2
Std Dev 0

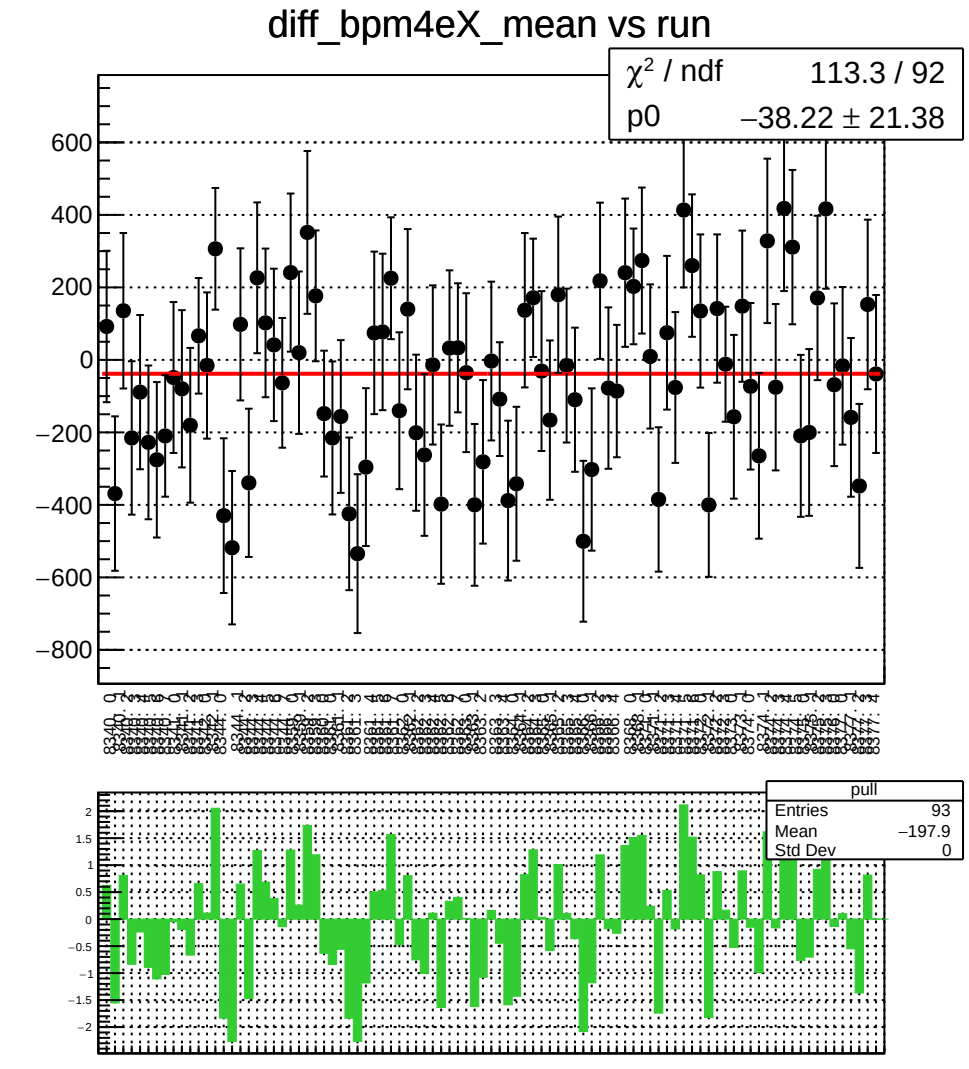

pull1D
Entries 93
Mean −0.02276
Std Dev 1.105

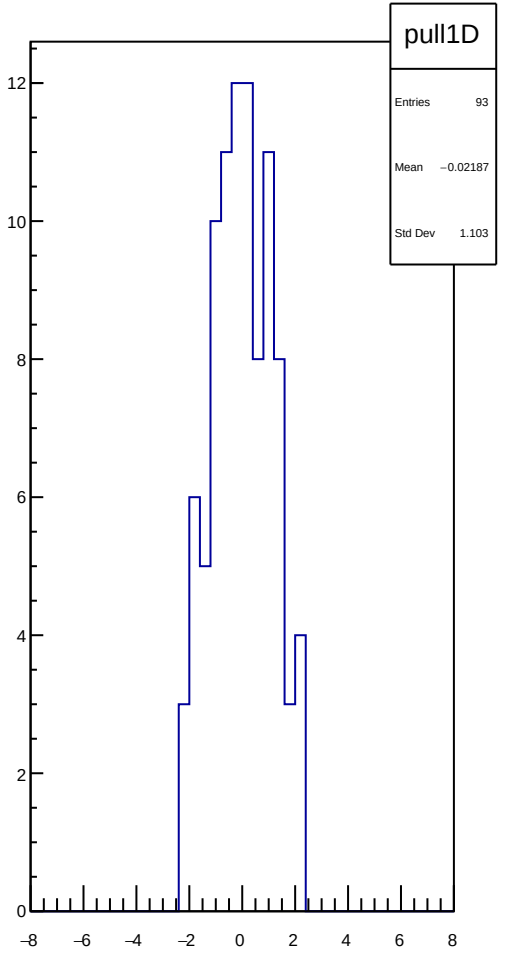

diff_bpm4aX_rms vs run
χ² / ndf 2598 / 92
p0 2.194e+04 ± 16.22
24000
23000
22000
21000
20000

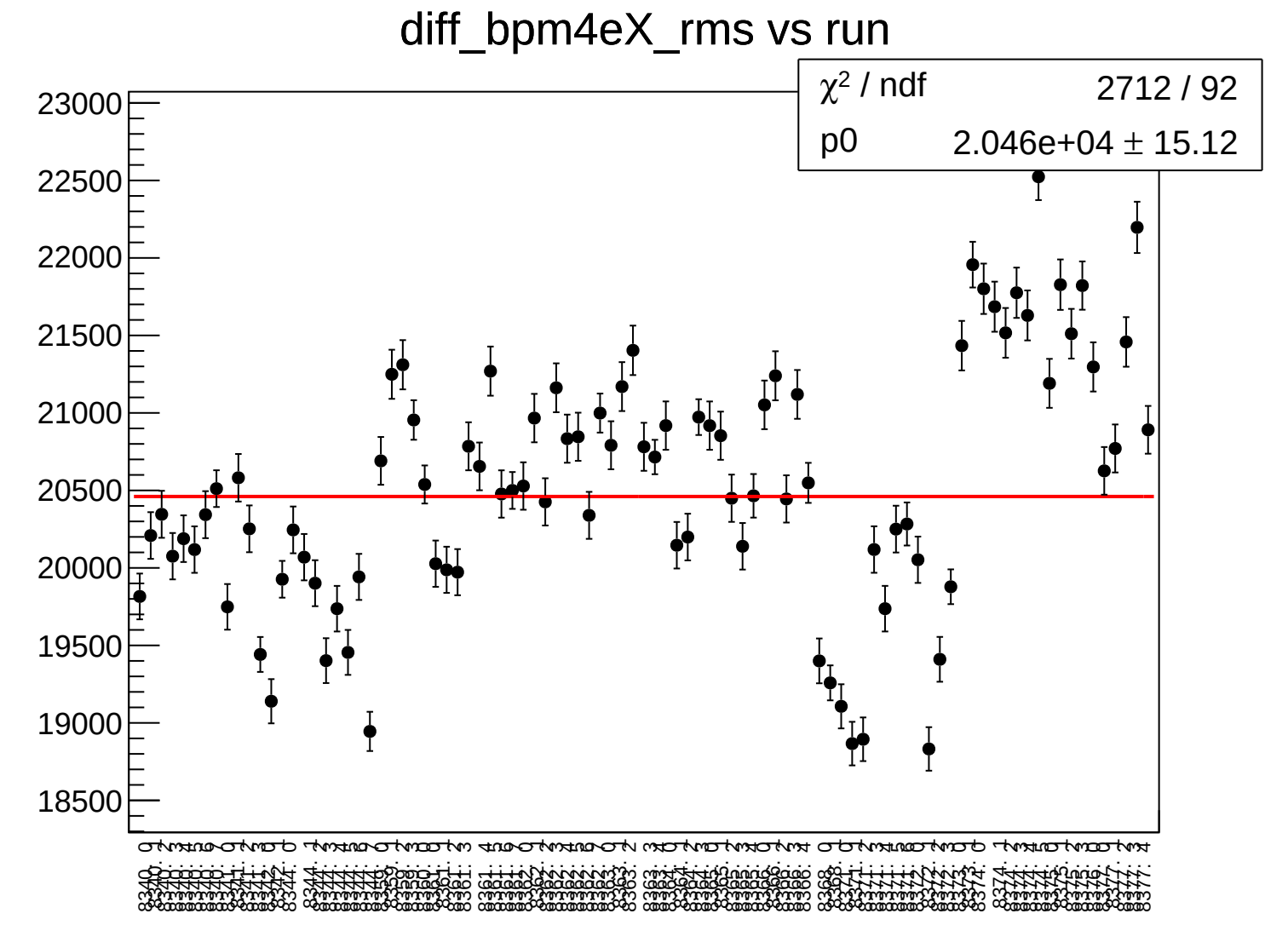

diff_bpm4aY_mean vs run
χ² / ndf 86.22 / 92
p0 19.94 ± 7.16
300
200
100
0
−100
−200
pull
Entries 93
Mean −383.4
Std Dev 0
3
2
1
0
−1
−2

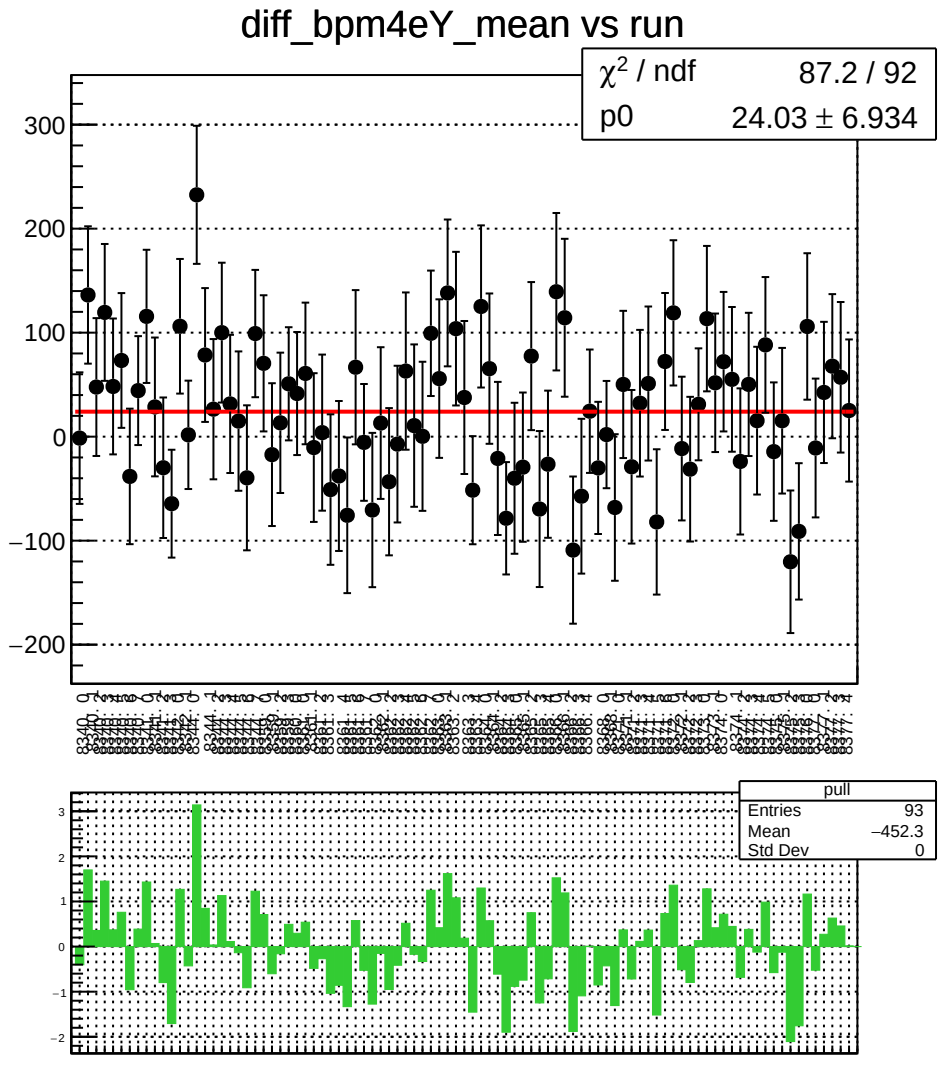

pull1D
Entries 93
Mean 0.00895
Std Dev 0.9628
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

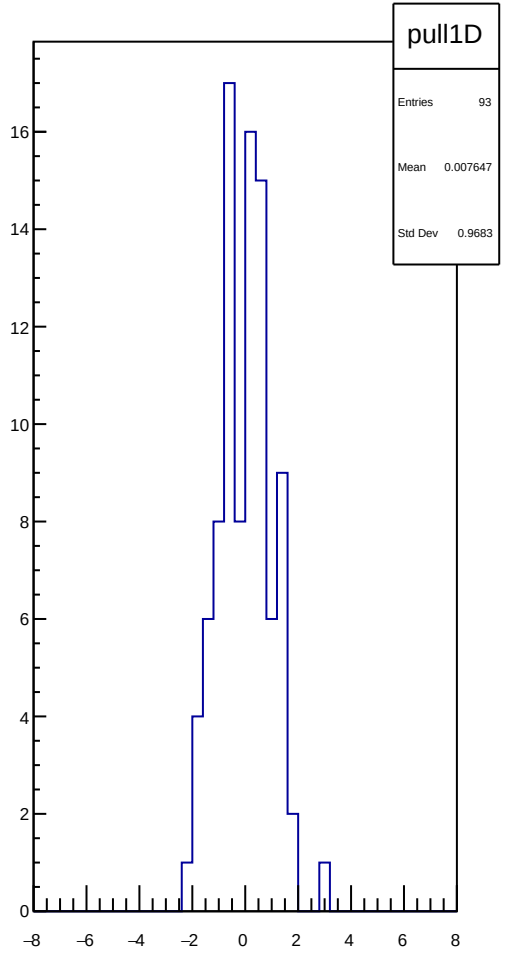

diff_bpm4aY_rms vs run
χ² / ndf 4346 / 92
p0 6848 ± 5.063
7800
7600
7400
7200
7000
6800
6600
6400
6200

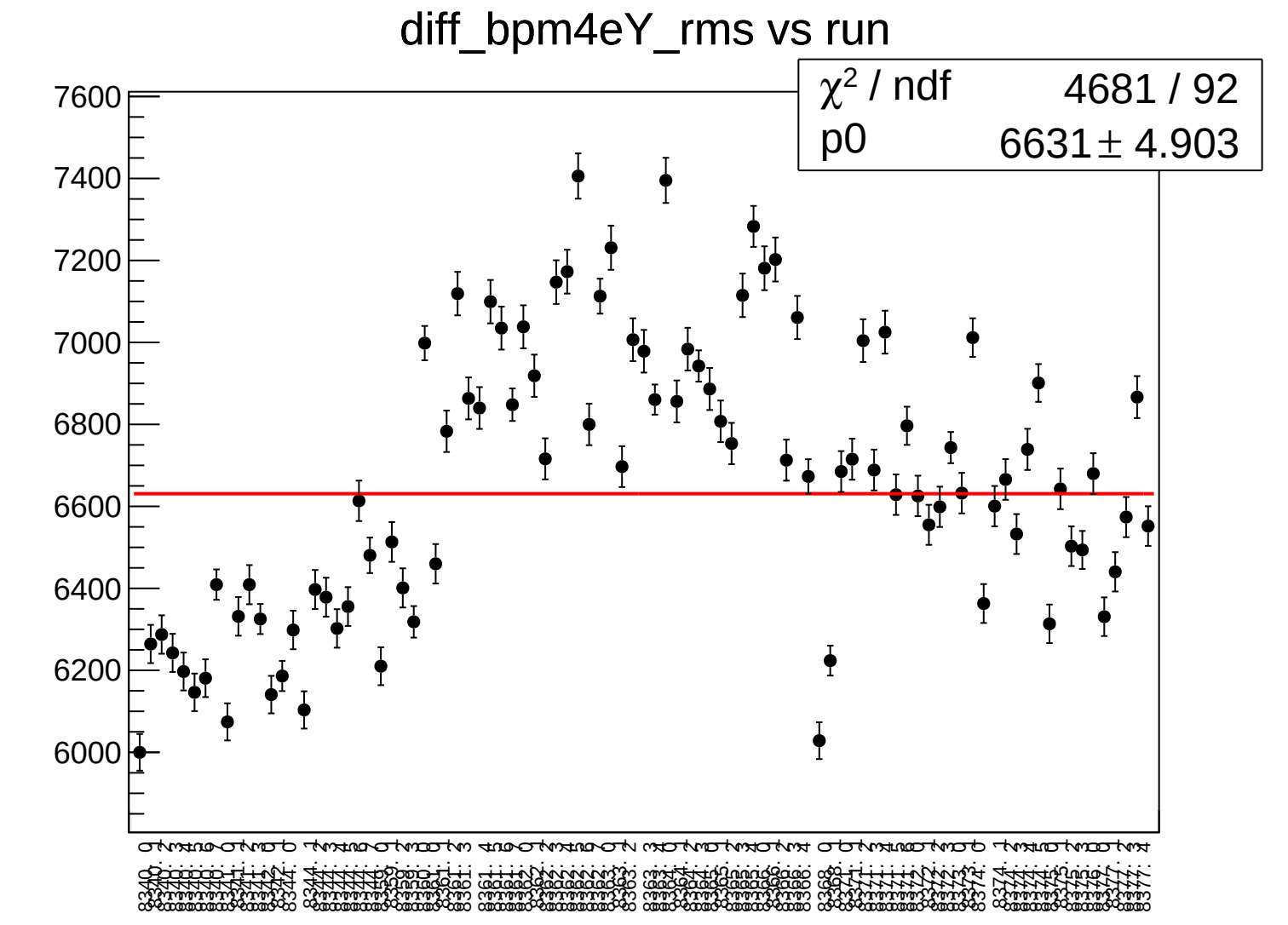

diff_bpm4eX_mean vs run
χ² / ndf 113.3 / 92
p0 −38.22 ± 21.38
600
400
200
0
−200
−400
−600
−800
pull
Entries 93
Mean −197.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

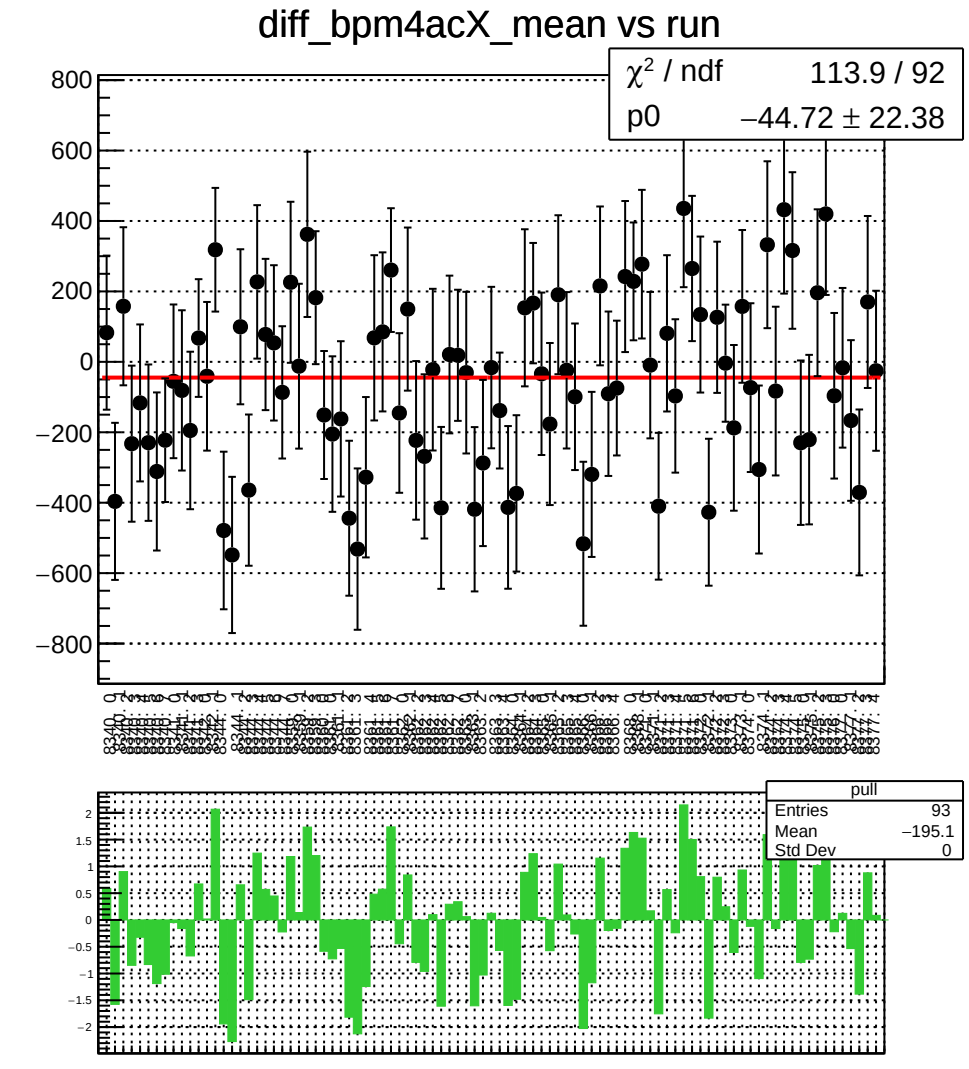

pull1D
Entries 93
Mean −0.02187
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

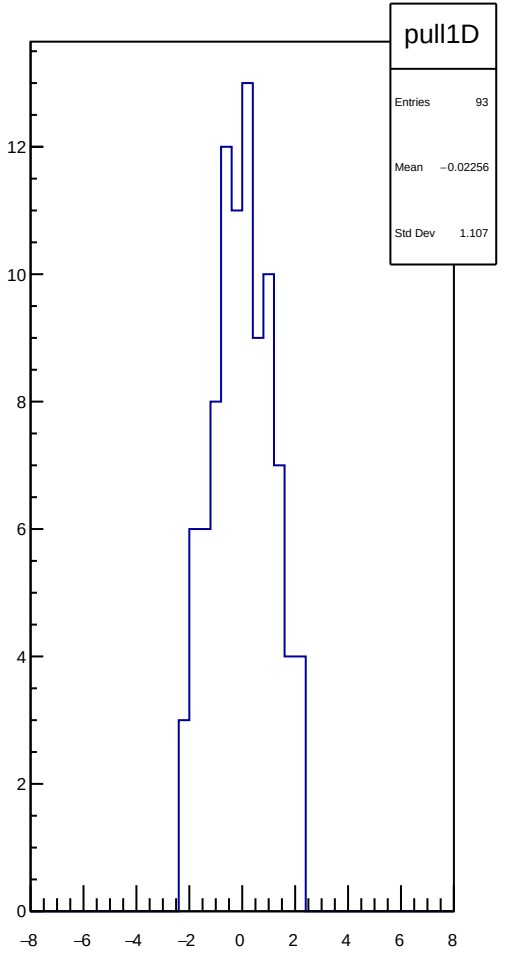

diff_bpm4eX_rms vs run
χ² / ndf 2712 / 92
p0 2.046e+04 ± 15.12
23000
22500
22000
21500
21000
20500
20000
19500
19000
18500

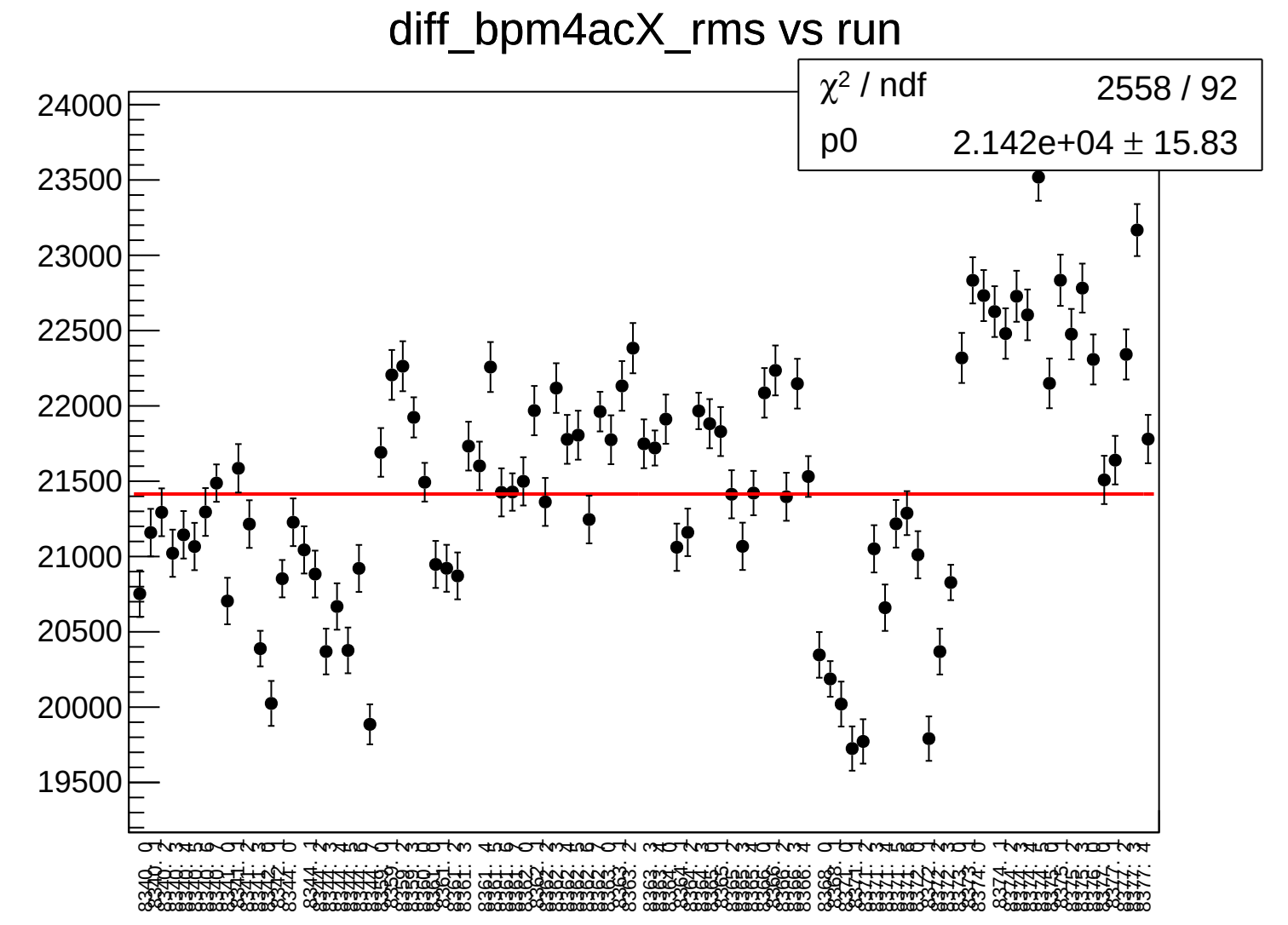

diff_bpm4eY_mean vs run
χ^2 / ndf 87.2 / 92
p0 24.03 ± 6.934
300
200
100
0
−100
−200
pull
Entries 93
Mean −452.3
Std Dev 0
3
2
1
0
−1
−2

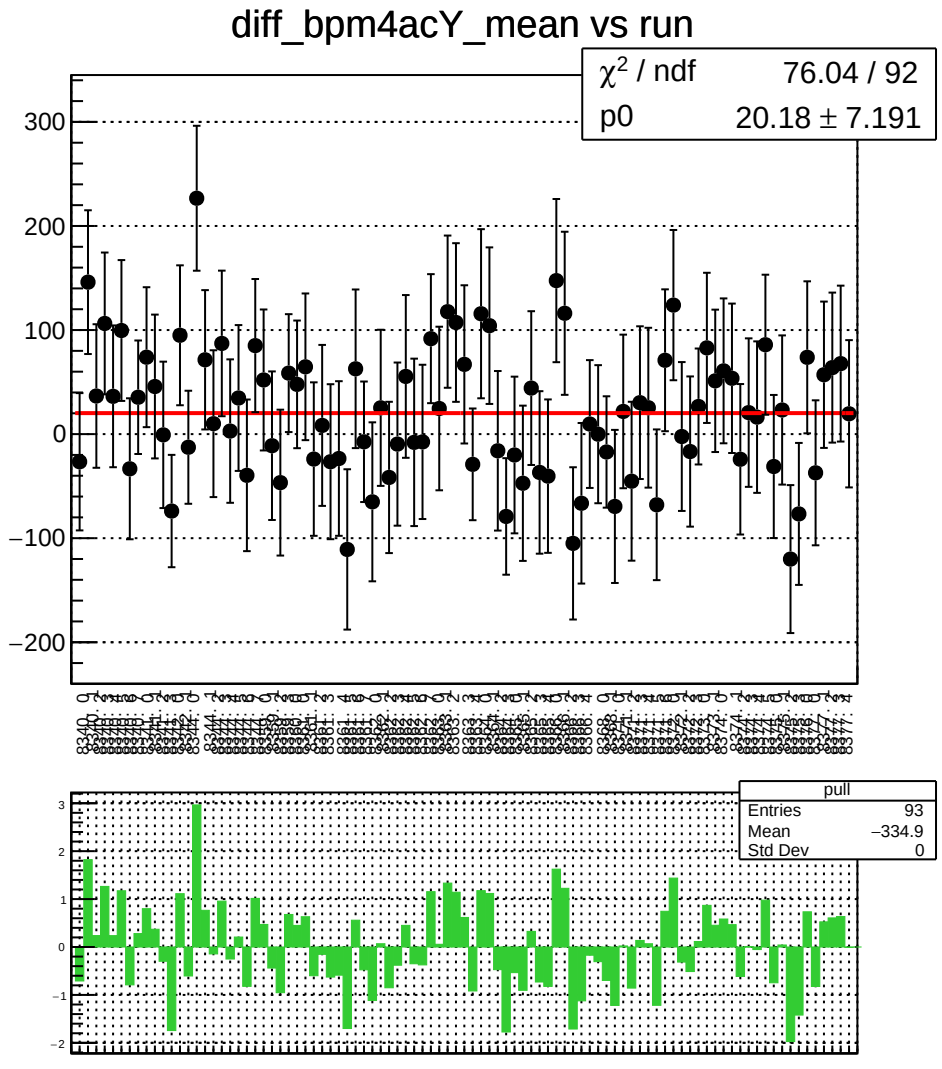

pull1D
Entries 93
Mean 0.007647
Std Dev 0.9683
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

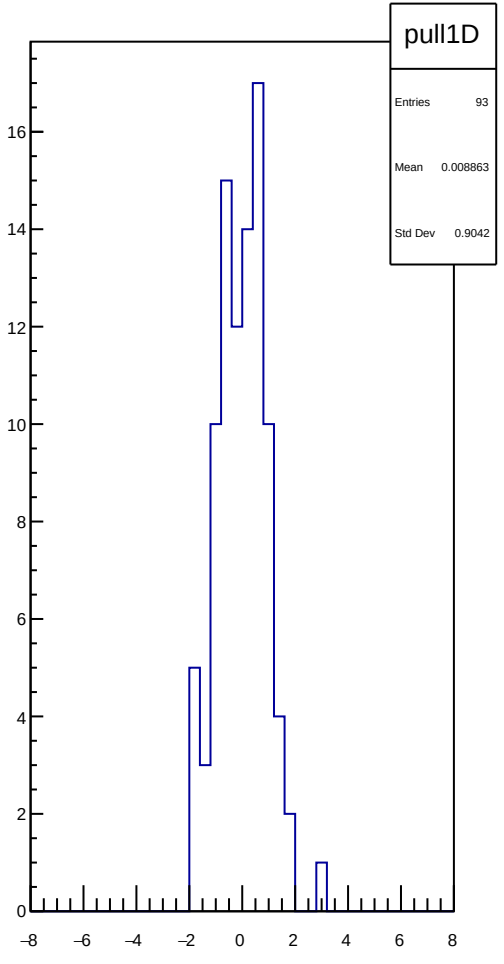

diff_bpm4eY_rms vs run
χ² / ndf 4681 / 92
p0 6631 ± 4.903
7600
7400
7200
7000
6800
6600
6400
6200
6000

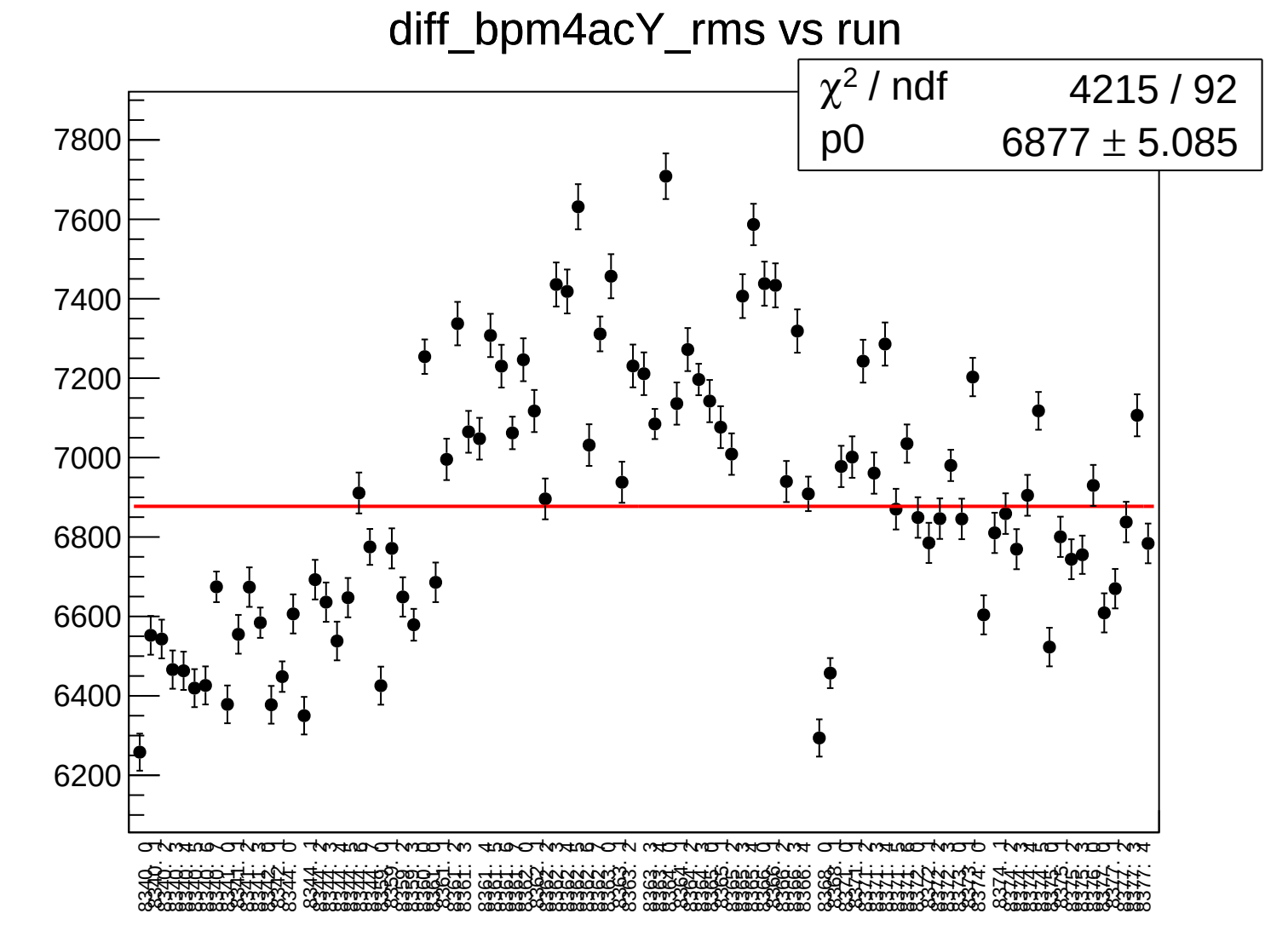

diff_bpm4acX_mean vs run
χ² / ndf 113.9 / 92
p0 −44.72 ± 22.38
pull
Entries 93
Mean −195.1
Std Dev 0

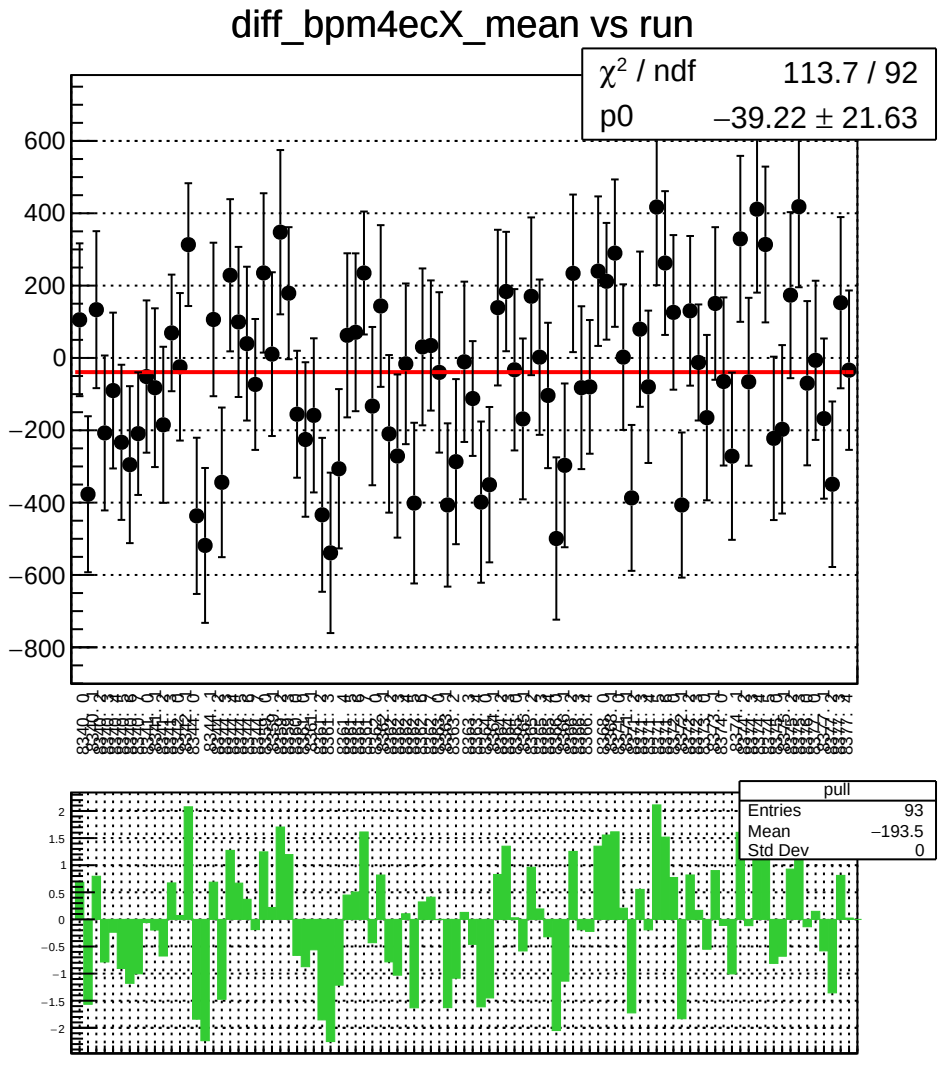

pull1D
Entries 93
Mean −0.02256
Std Dev 1.107

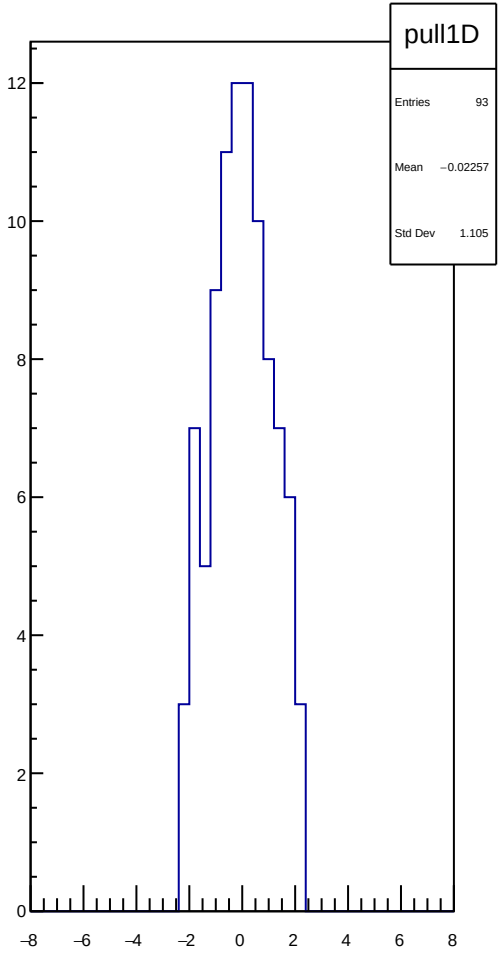

diff_bpm4acX_rms vs run
χ² / ndf 2558 / 92
p0 2.142e+04 ± 15.83
24000
23500
23000
22500
22000
21500
21000
20500
20000
19500

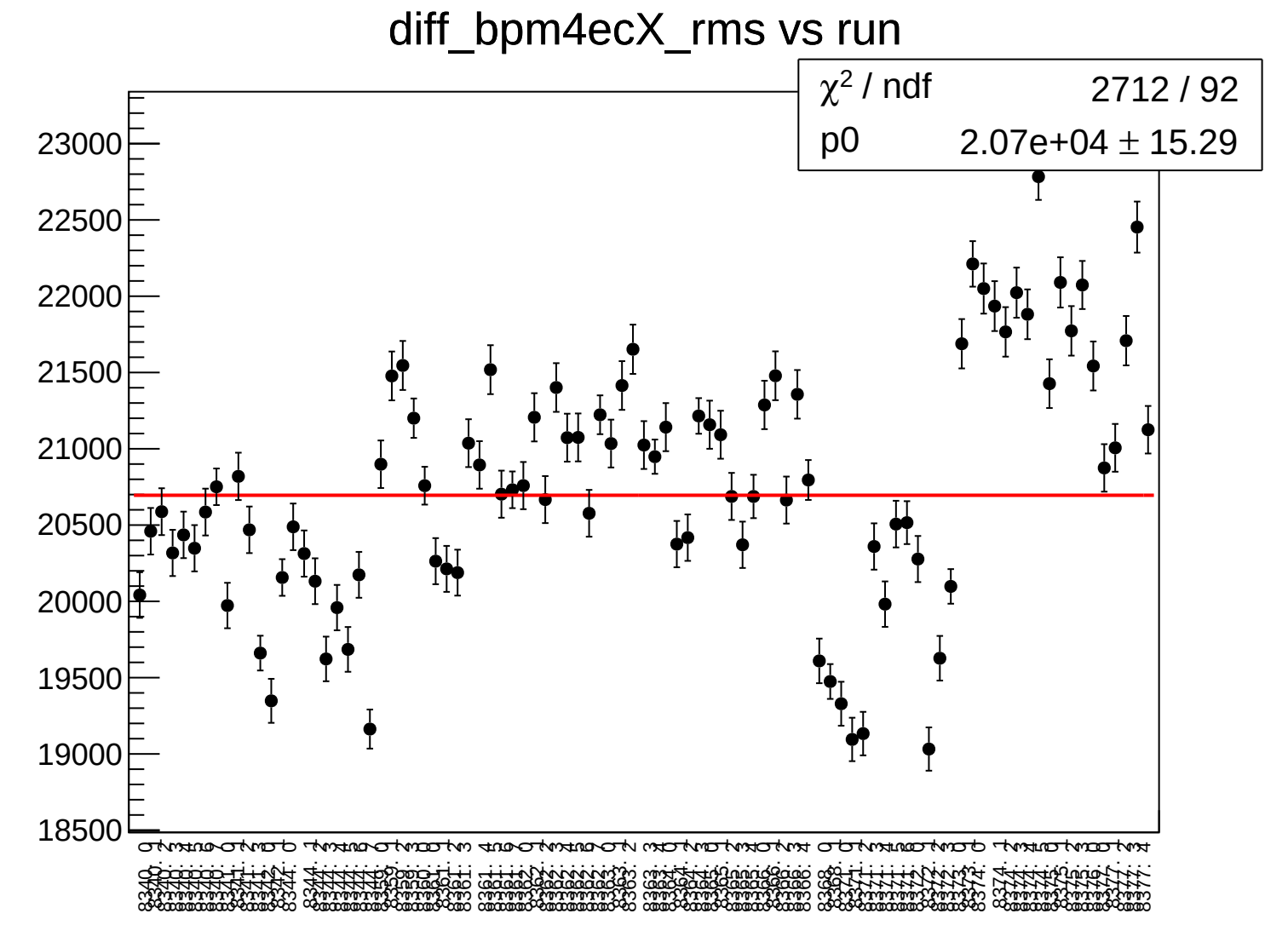

diff_bpm4acY_mean vs run
χ² / ndf 76.04 / 92
p0 20.18 ± 7.191
300
200
100
0
−100
−200
pull
Entries 93
Mean −334.9
Std Dev 0
3
2
1
0
−1
−2

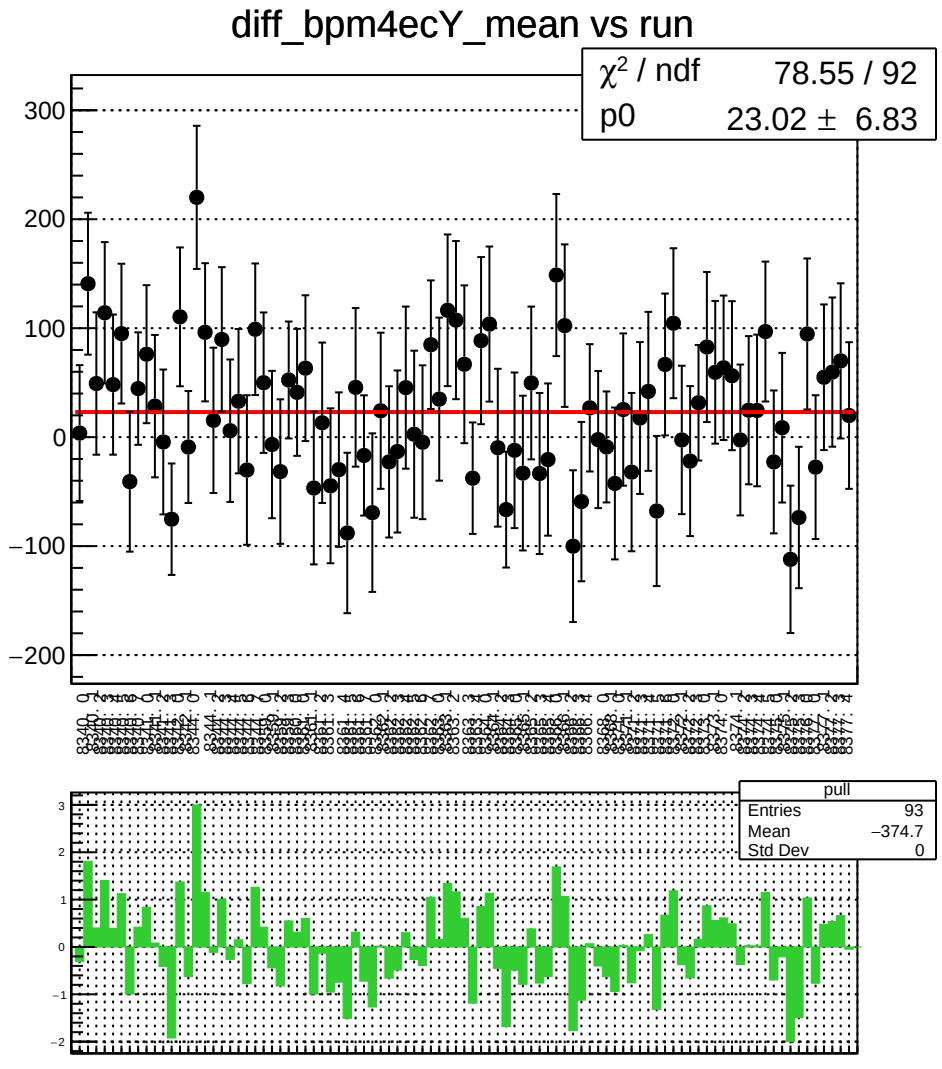

pull1D
Entries 93
Mean 0.008863
Std Dev 0.9042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

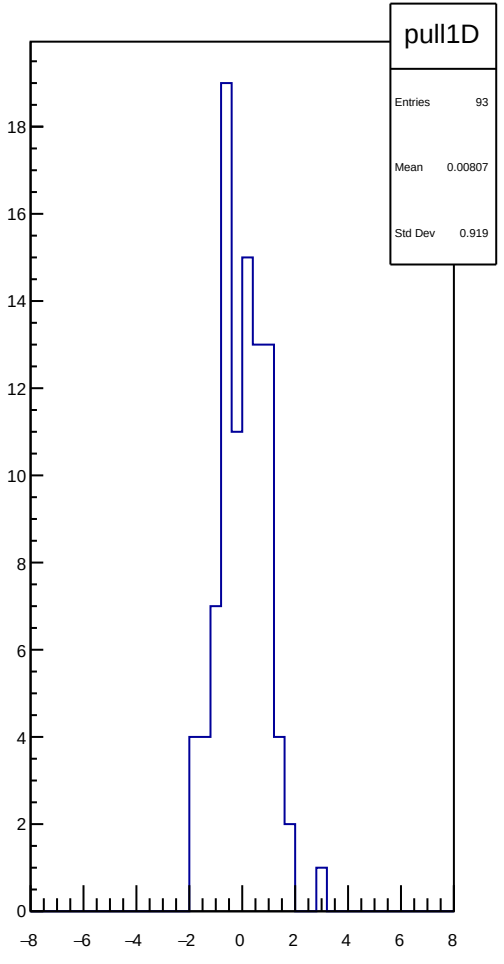

diff_bpm4acY_rms vs run
χ² / ndf 4215 / 92
p0 6877 ± 5.085
7800
7600
7400
7200
7000
6800
6600
6400
6200

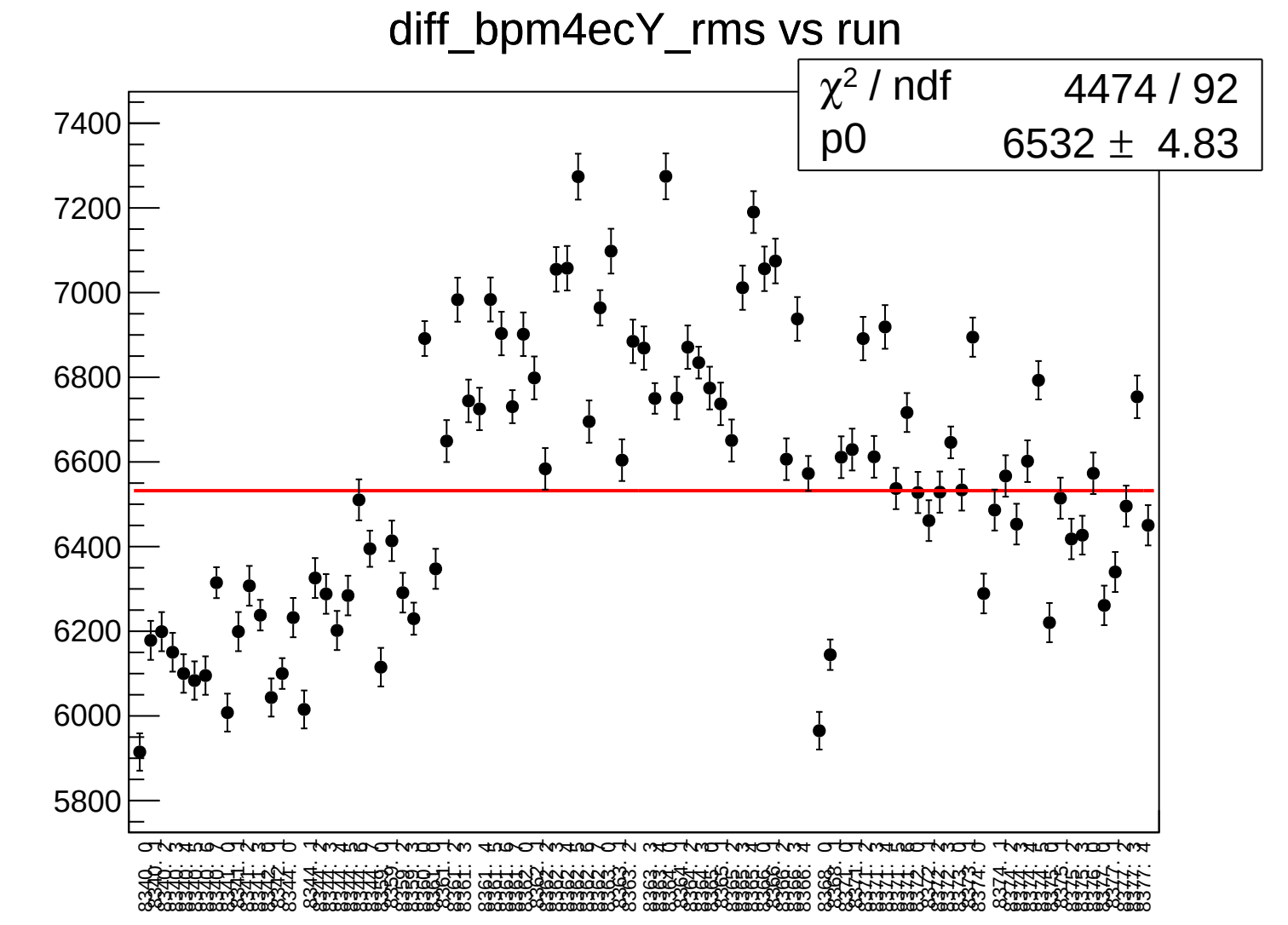

diff_bpm4ecX_mean vs run
χ² / ndf 113.7 / 92
p0 −39.22 ± 21.63
pull
Entries 93
Mean −193.5
Std Dev 0

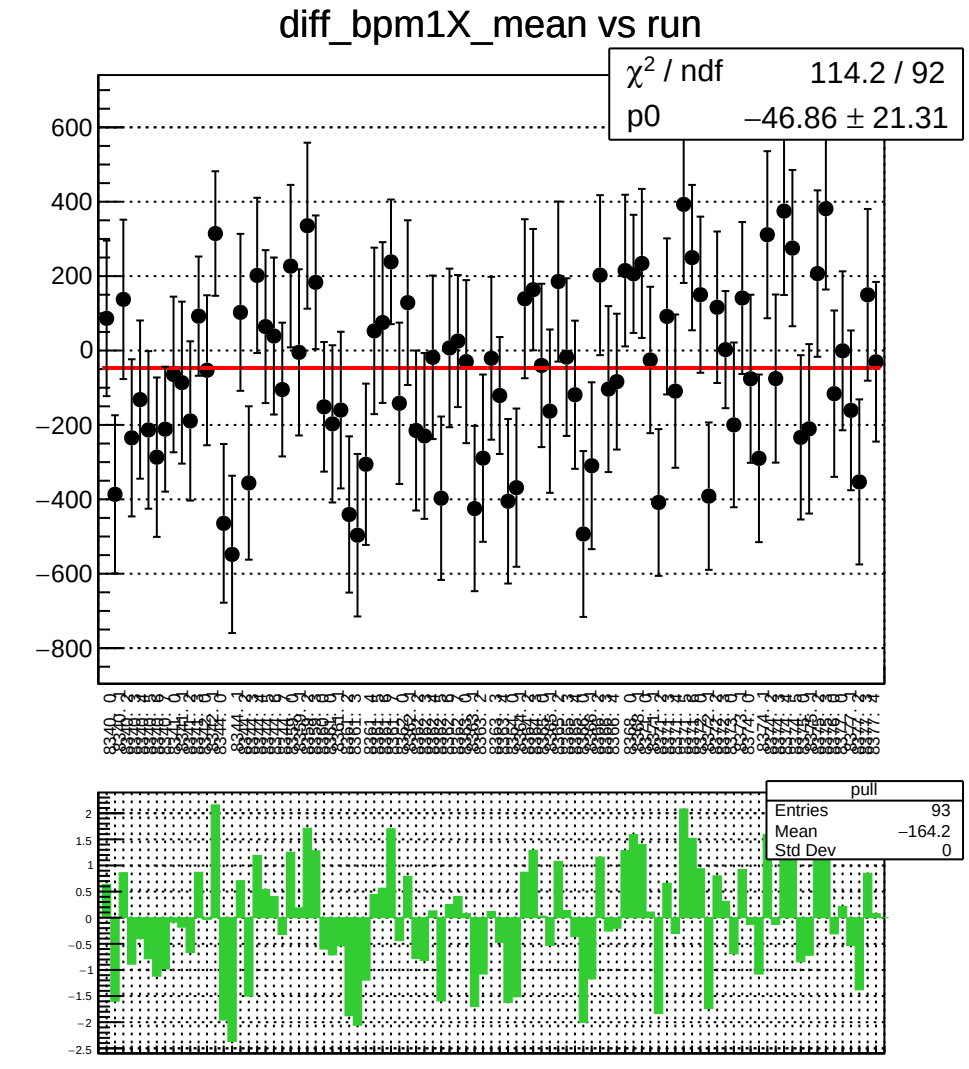

pull1D
Entries 93
Mean −0.02257
Std Dev 1.105

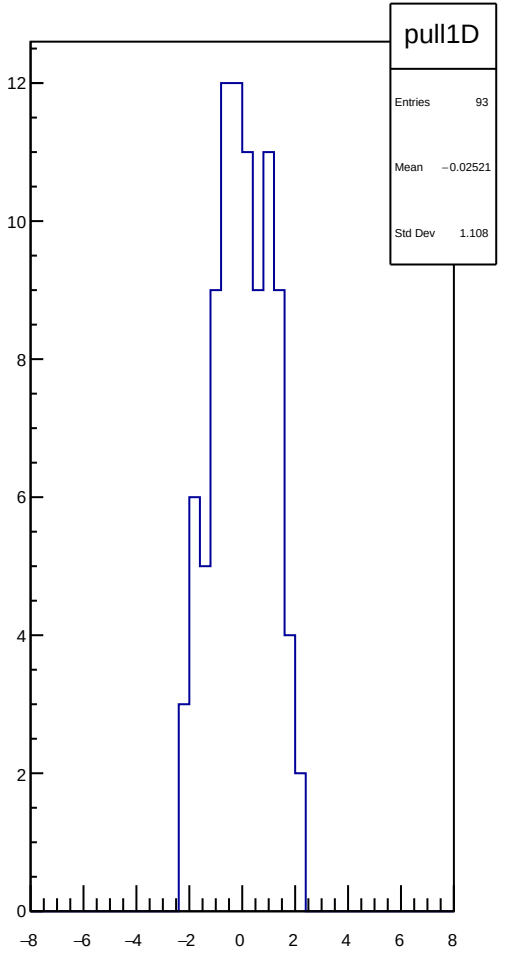

diff_bpm4ecX_rms vs run
χ² / ndf 2712 / 92
p0 2.07e+04 ± 15.29
23000
22500
22000
21500
21000
20500
20000
19500
19000
18500

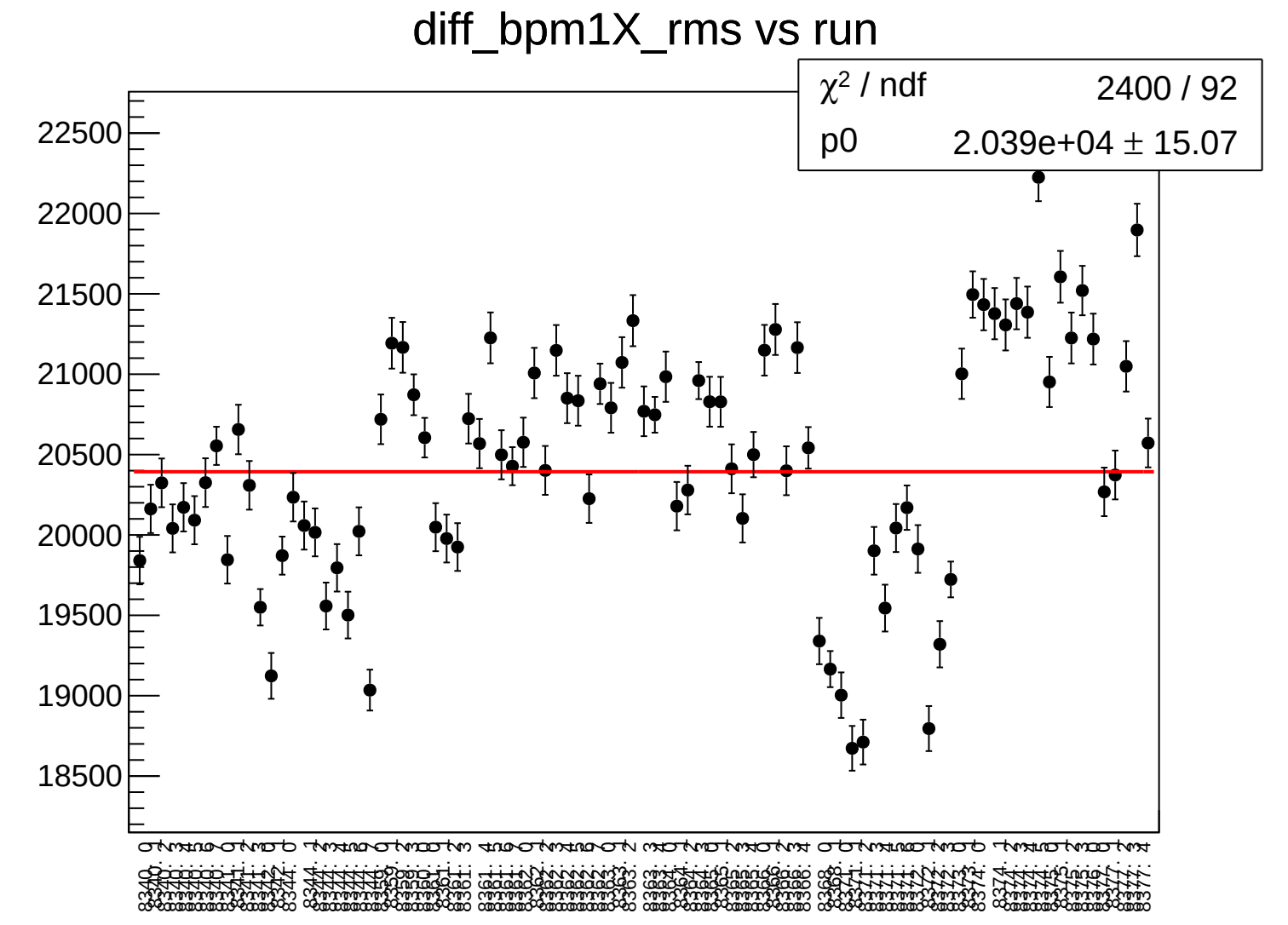

diff_bpm4ecY_mean vs run
χ² / ndf 78.55 / 92
p0 23.02 ± 6.83
300
200
100
0
−100
−200
pull
Entries 93
Mean −374.7
Std Dev 0
3
2
1
0
−1
−2

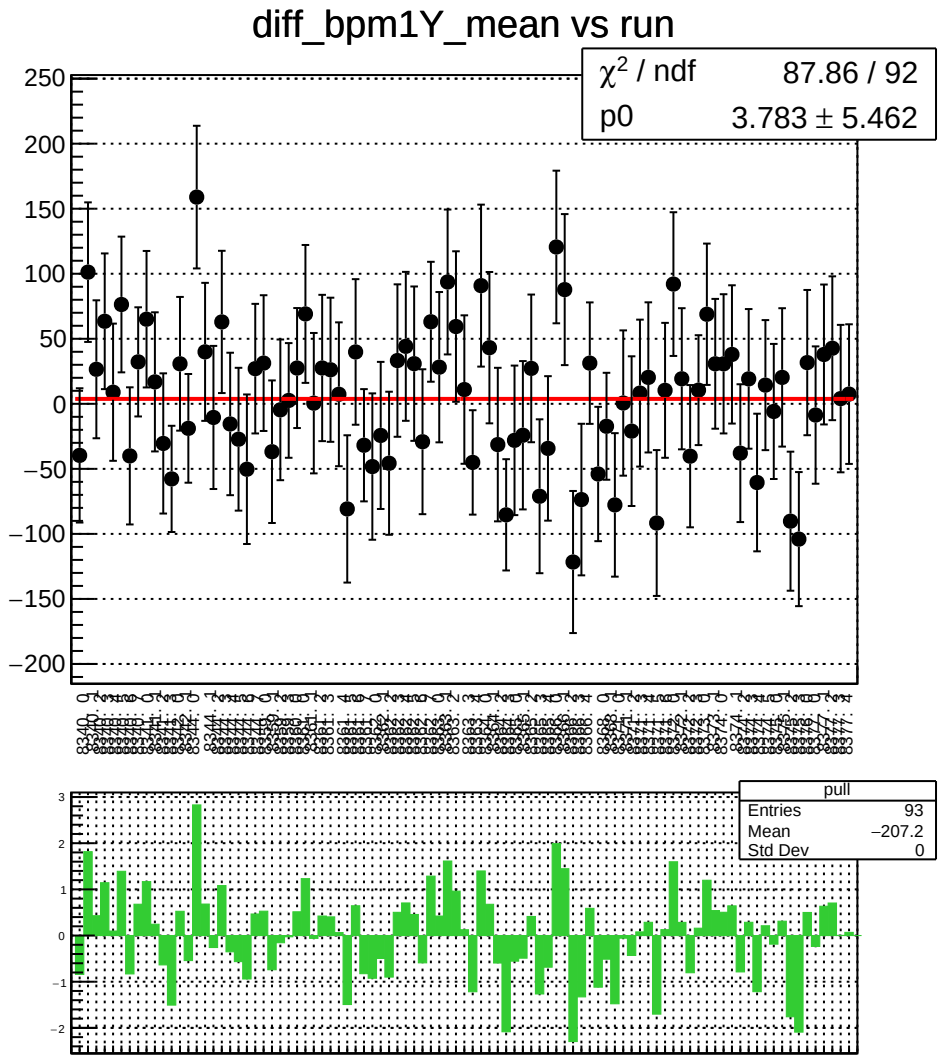

pull1D
Entries 93
Mean 0.00807
Std Dev 0.919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

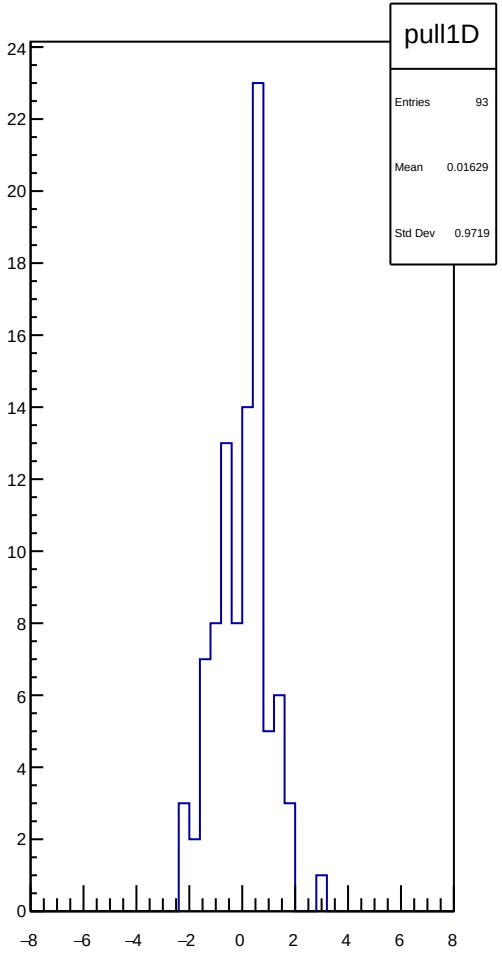

diff_bpm4ecY_rms vs run
χ² / ndf 4474 / 92
p0 6532 ± 4.83
7400
7200
7000
6800
6600
6400
6200
6000
5800

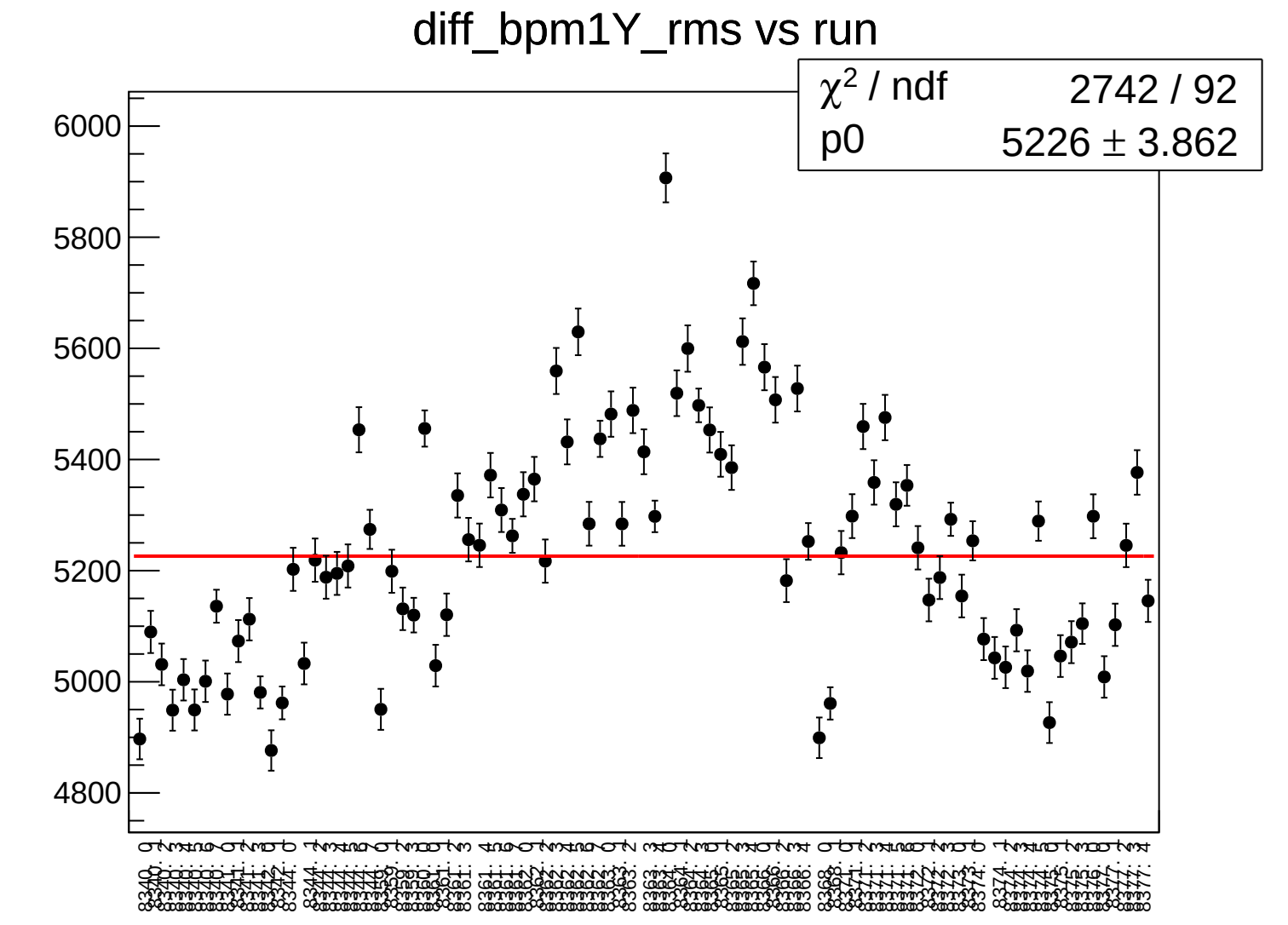

diff_bpm1X_mean vs run
χ^2 / ndf 114.2 / 92
p0 −46.86 ± 21.31
pull
Entries 93
Mean −164.2
Std Dev 0

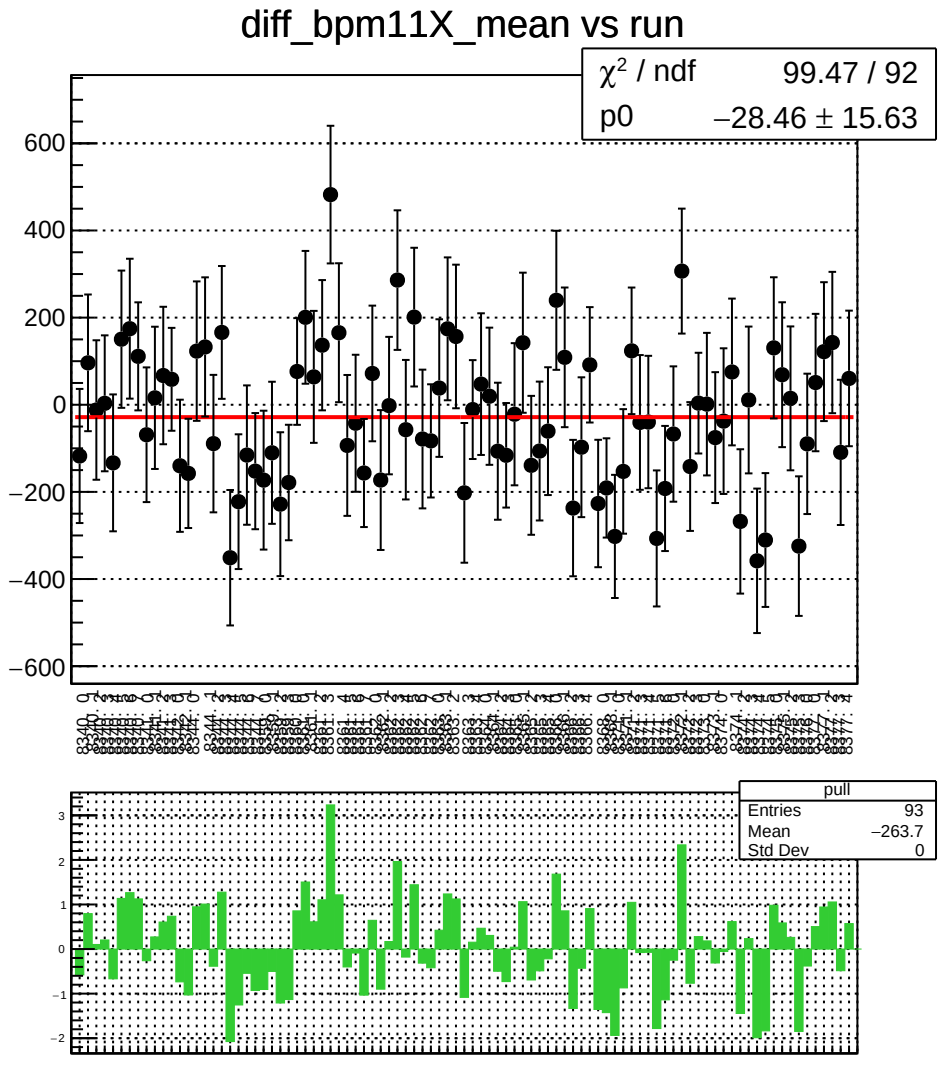

pull1D
Entries 93
Mean −0.02521
Std Dev 1.108

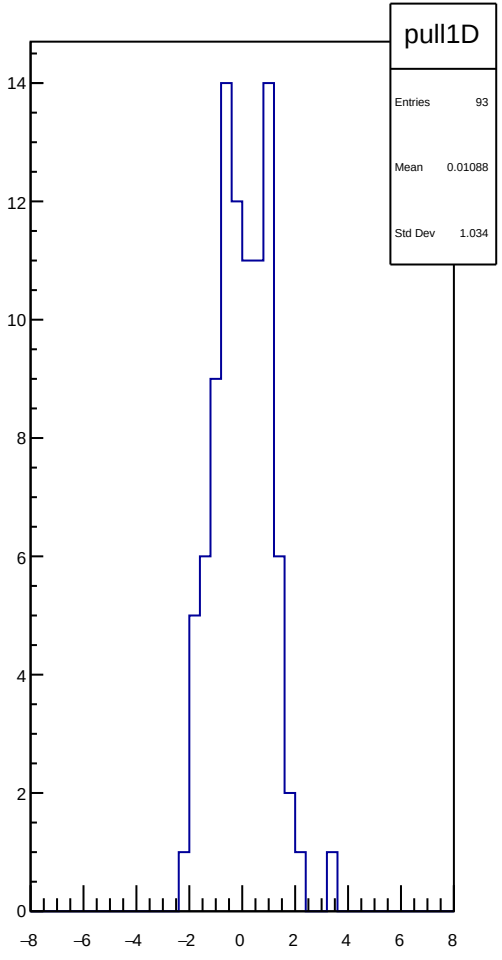

diff_bpm1X_rms vs run
χ² / ndf 2400 / 92
p0 2.039e+04 ± 15.07
22500
22000
21500
21000
20500
20000
19500
19000
18500

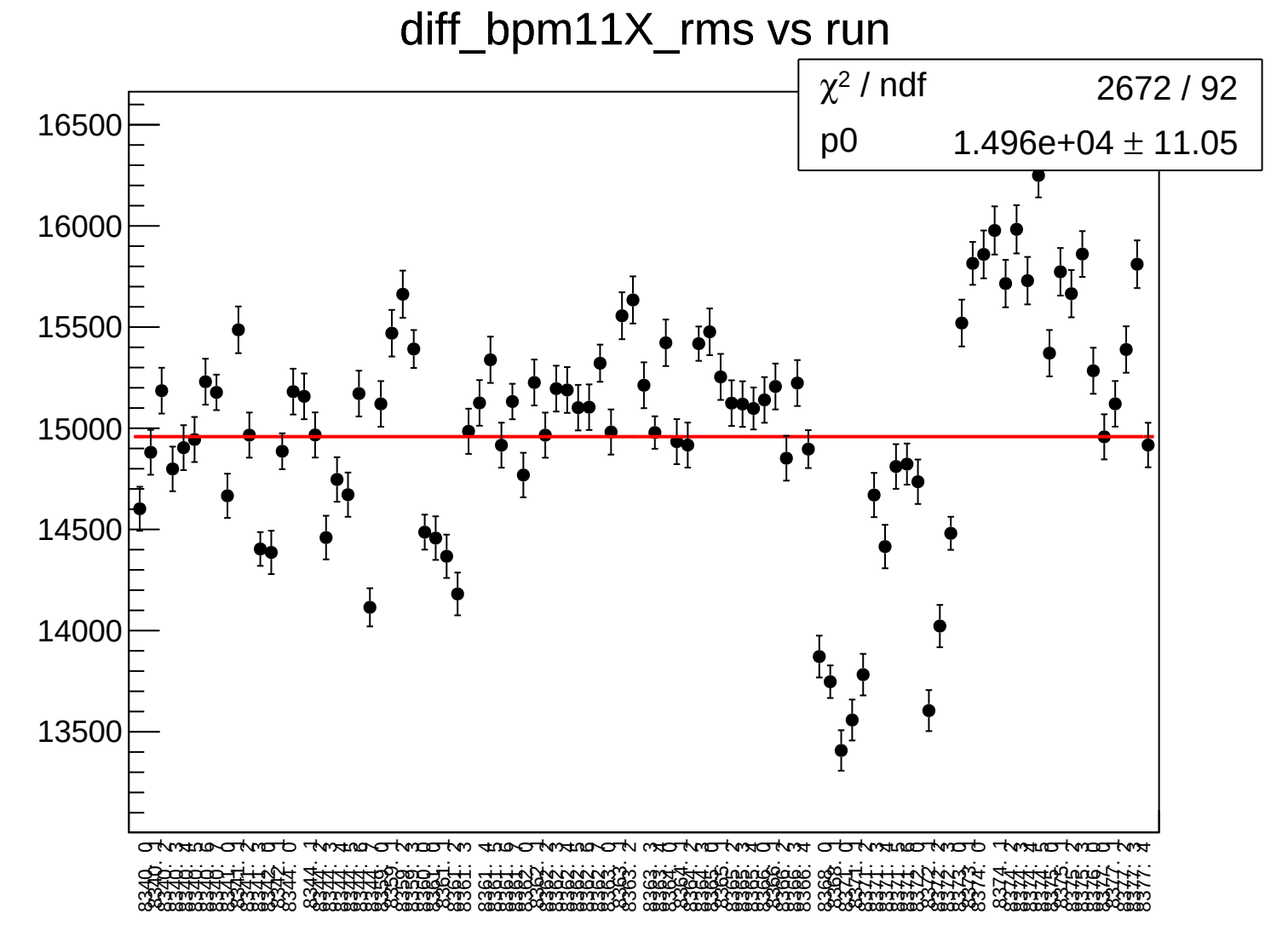

diff_bpm1Y_mean vs run
χ² / ndf 87.86 / 92
p0 3.783 ± 5.462
pull
Entries 93
Mean −207.2
Std Dev 0

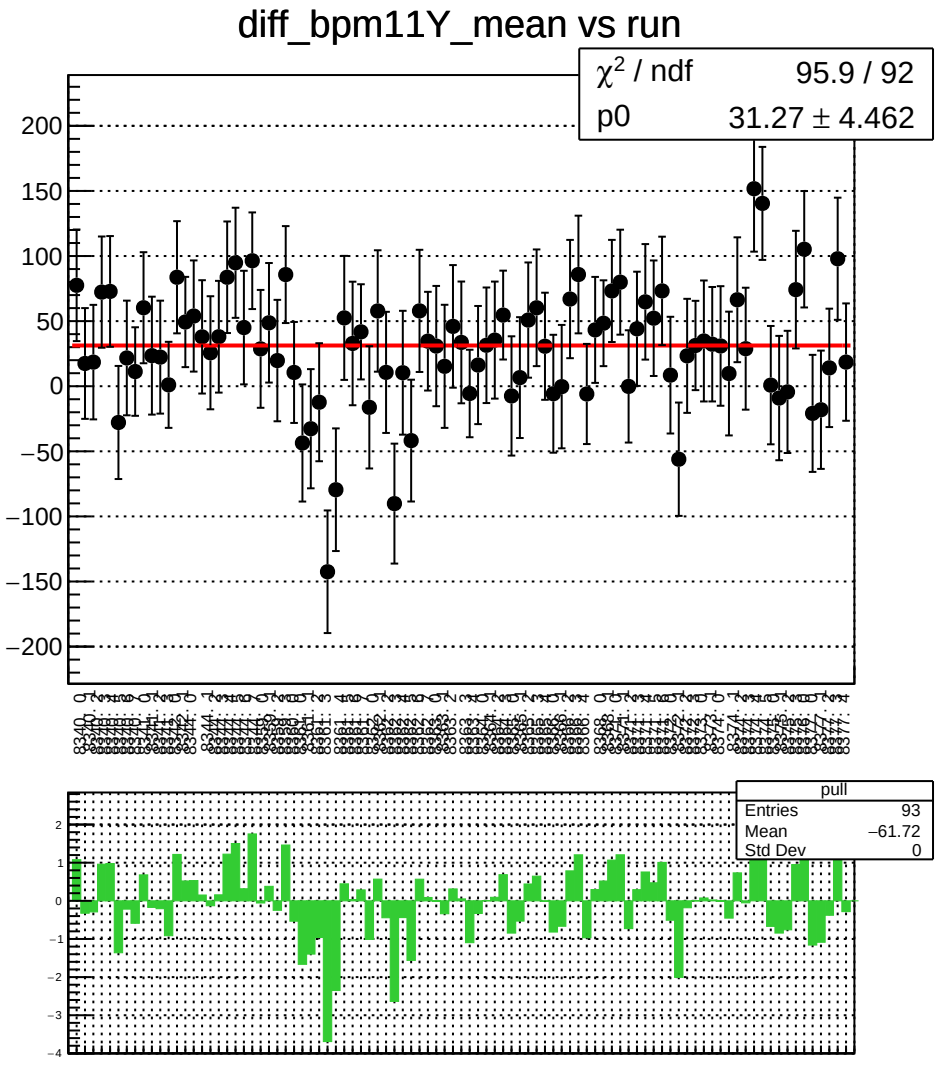

pull1D
Entries 93
Mean 0.01629
Std Dev 0.9719

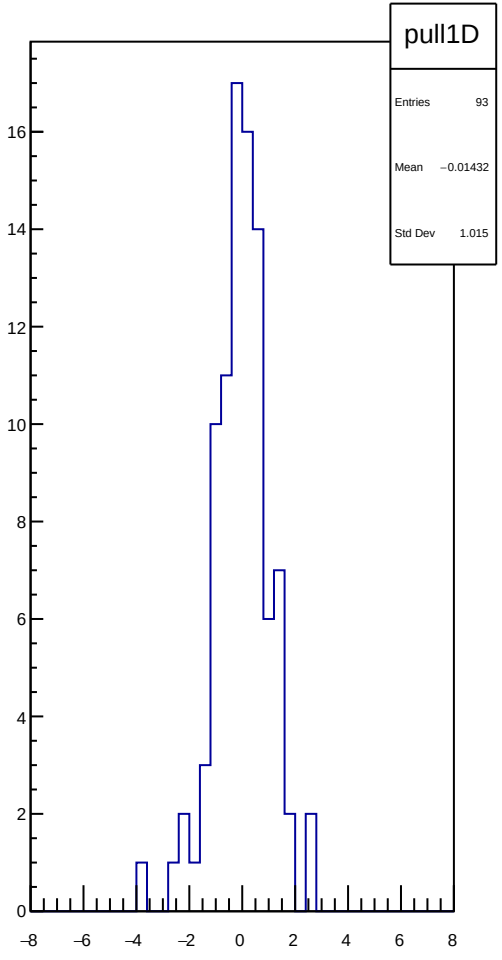

diff_bpm1Y_rms vs run
χ² / ndf 2742 / 92
p0 5226 ± 3.862
6000
5800
5600
5400
5200
5000
4800

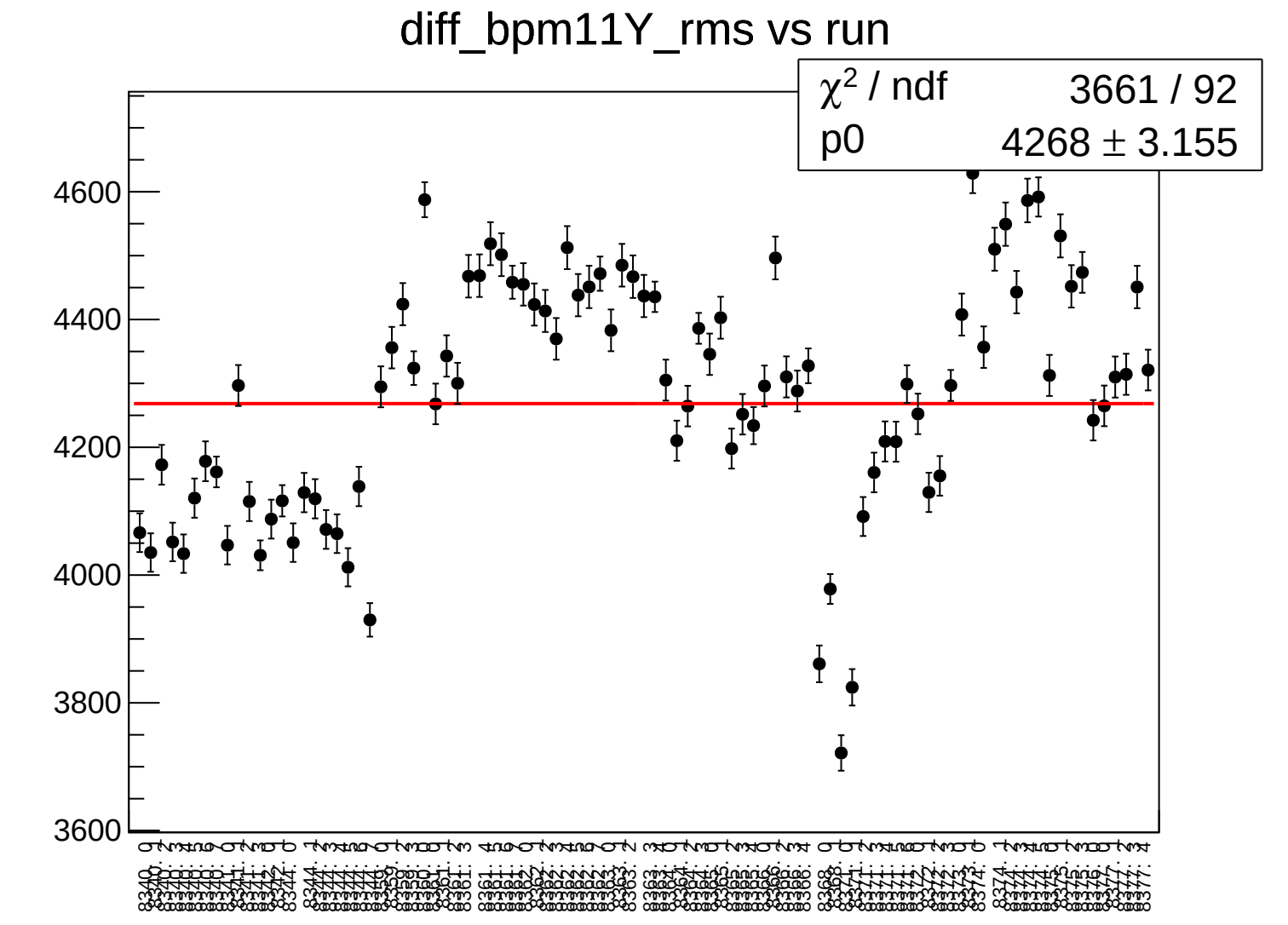

diff_bpm11X_mean vs run
χ² / ndf 99.47 / 92
p0 −28.46 ± 15.63
pull
Entries 93
Mean −263.7
Std Dev 0

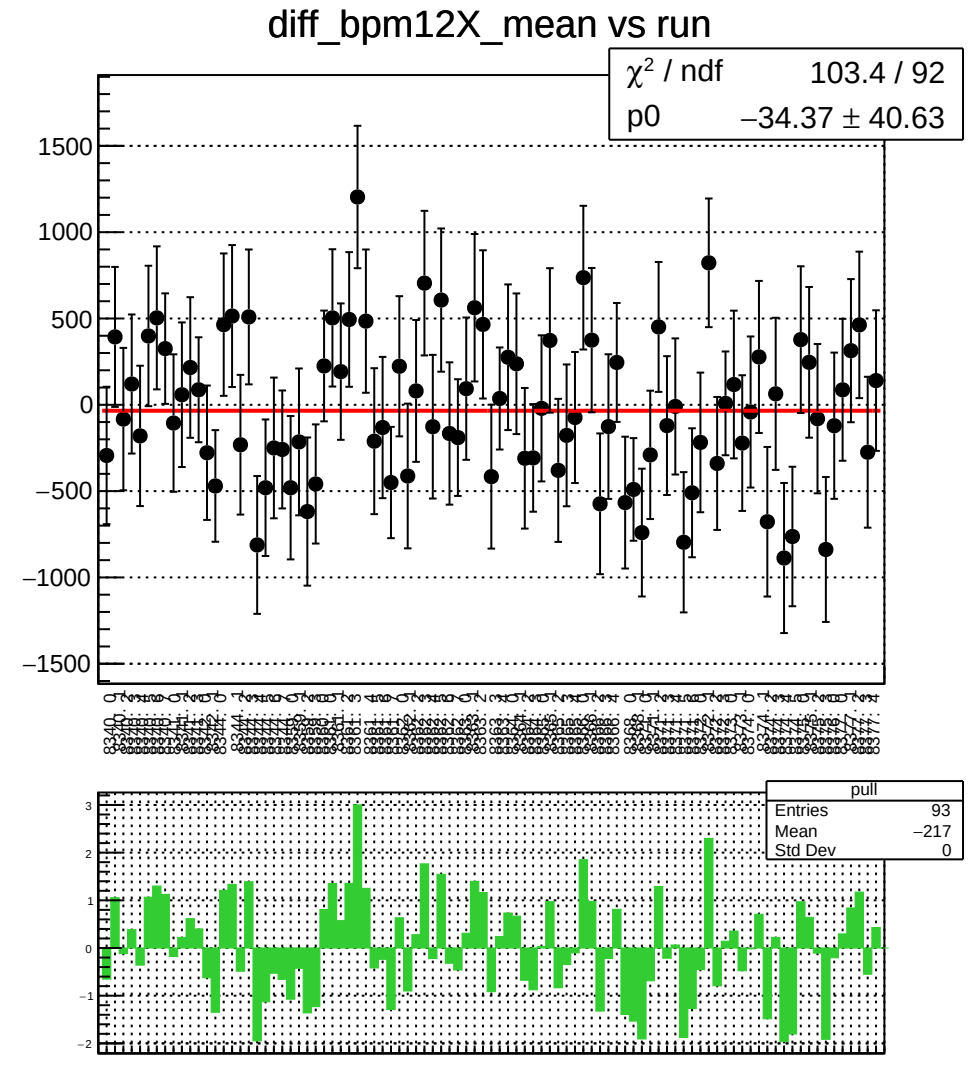

pull1D
Entries 93
Mean 0.01088
Std Dev 1.034

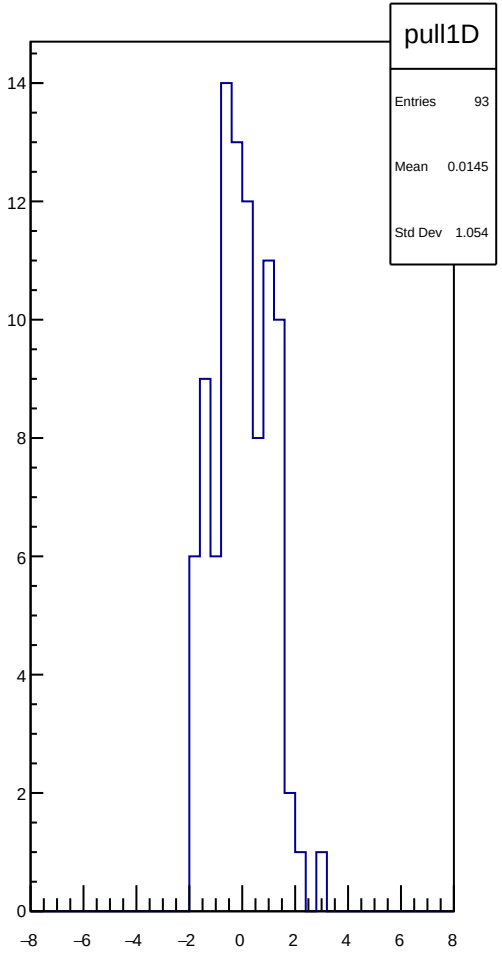

diff_bpm11X_rms vs run
χ² / ndf 2672 / 92
p0 1.496e+04 ± 11.05
16500
16000
15500
15000
14500
14000
13500

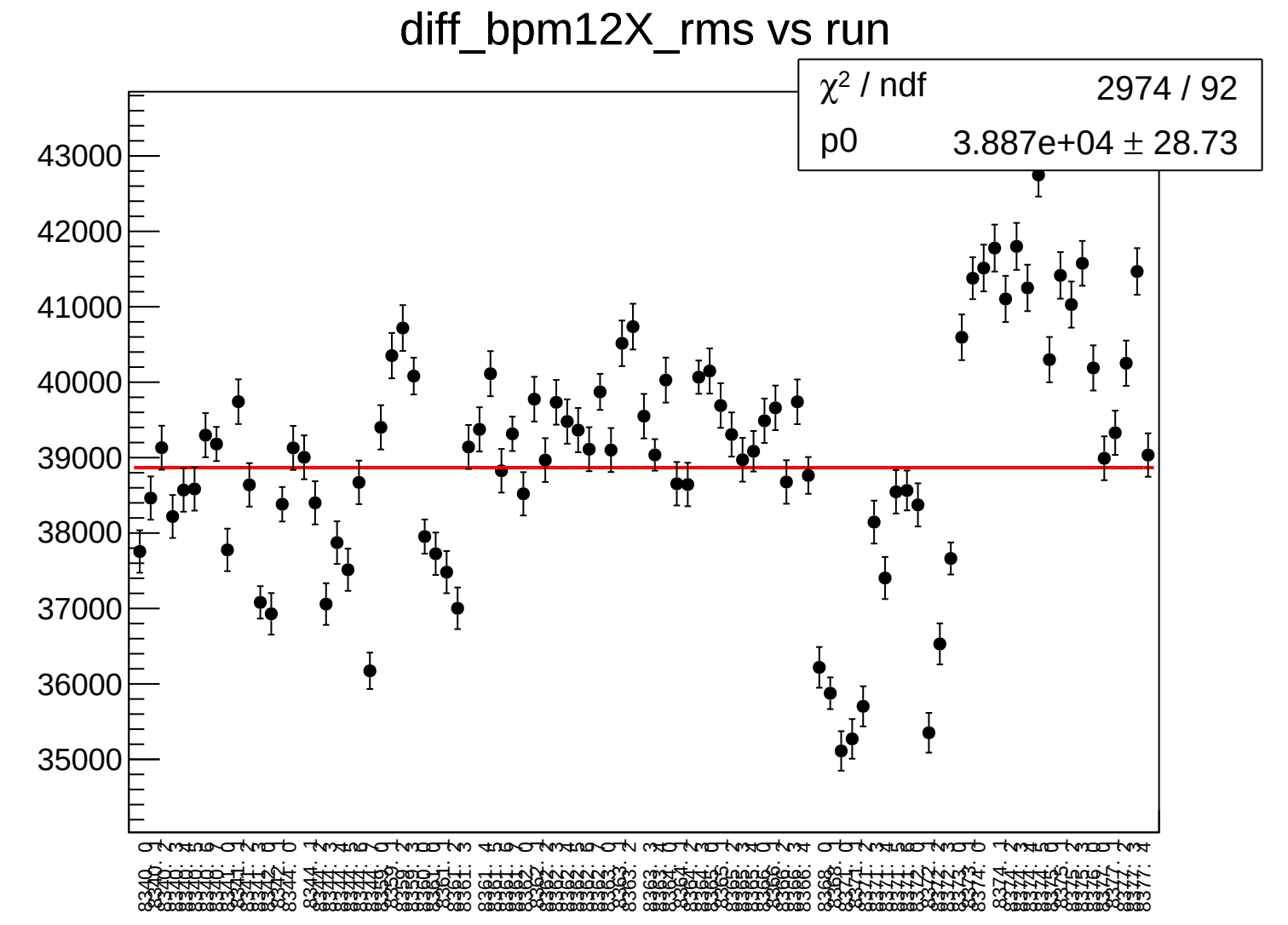

diff_bpm11Y_mean vs run
χ² / ndf 95.9 / 92
p0 31.27 ± 4.462
pull
Entries 93
Mean −61.72
Std Dev 0

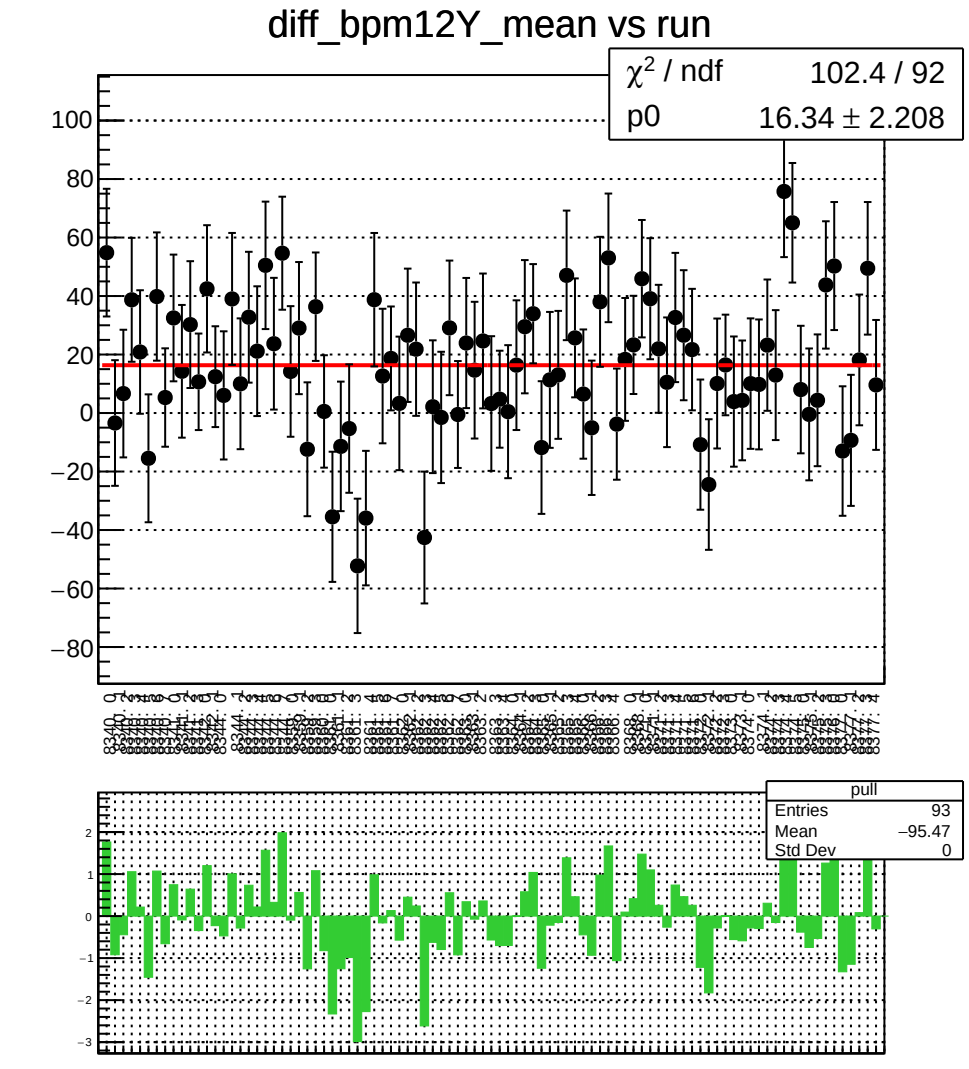

pull1D
Entries 93
Mean −0.01432
Std Dev 1.015

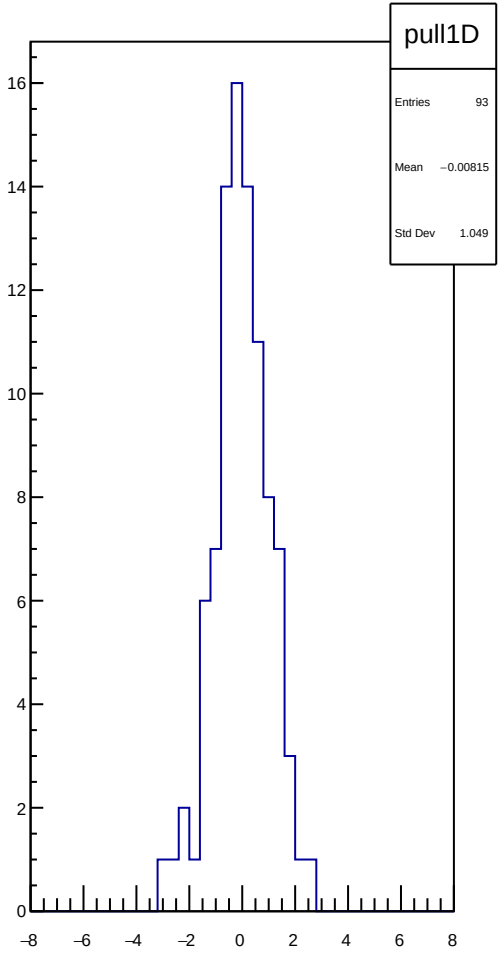

diff_bpm11Y_rms vs run
χ² / ndf 3661 / 92
p0 4268 ± 3.155
4600
4400
4200
4000
3800
3600

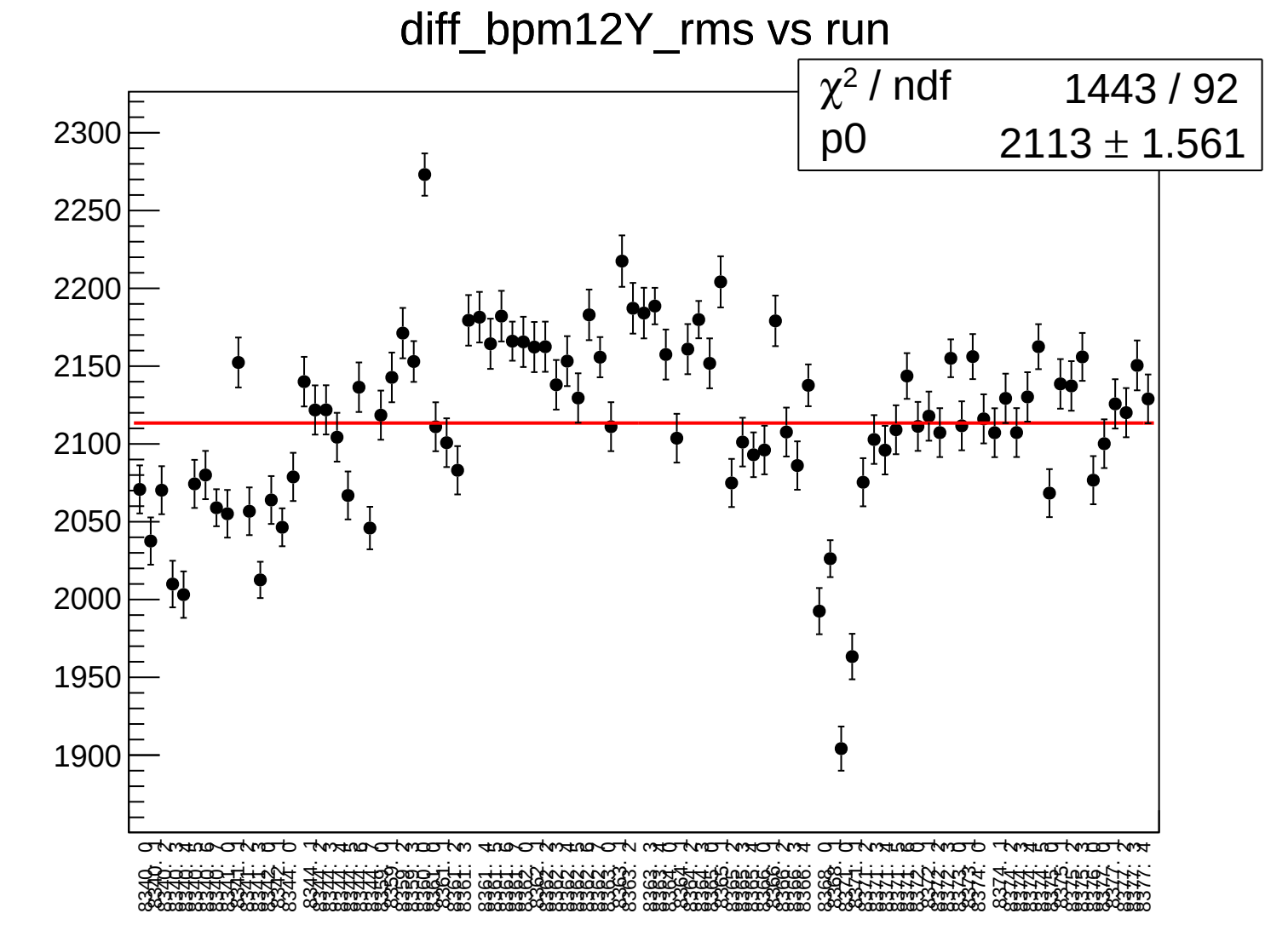

diff_bpm12X_mean vs run
χ² / ndf 103.4 / 92
p0 −34.37 ± 40.63
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −217
Std Dev 0
3
2
1
0
−1
−2

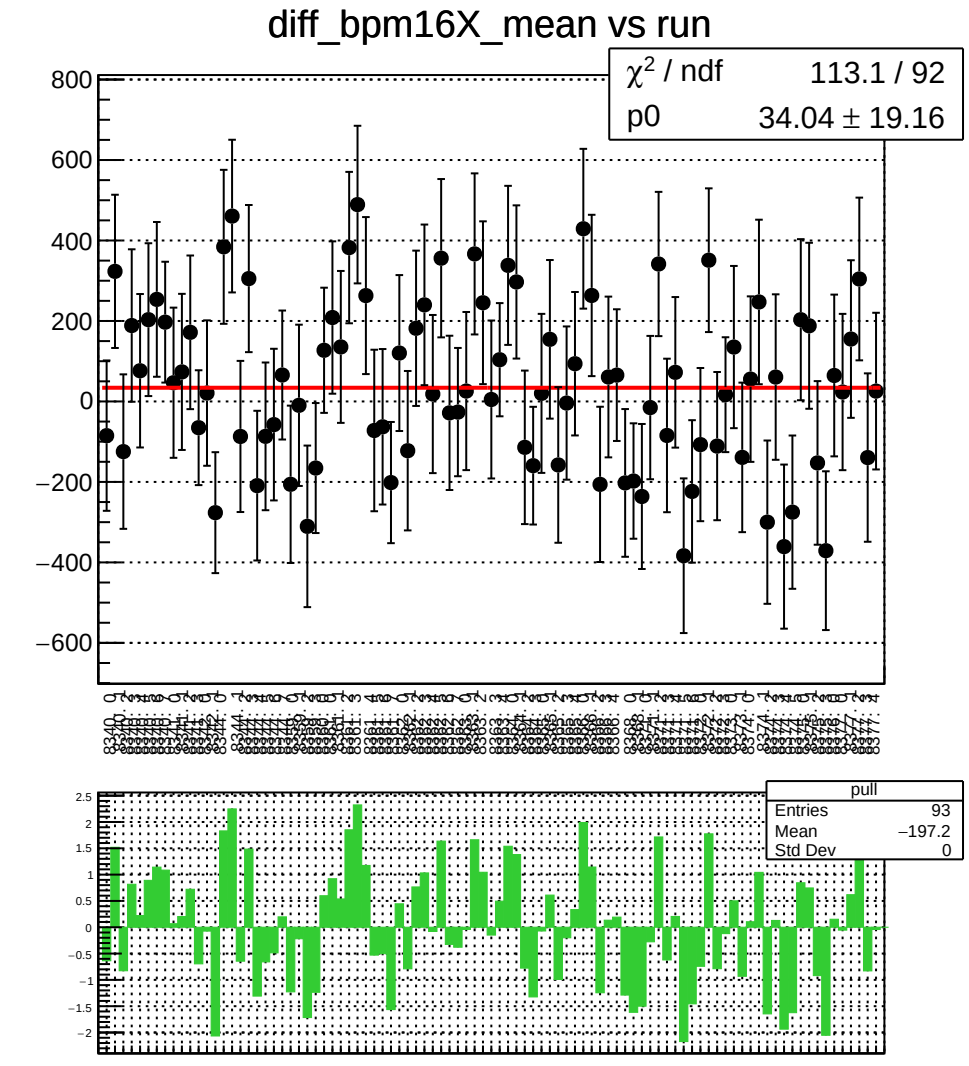

pull1D
Entries 93
Mean 0.0145
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

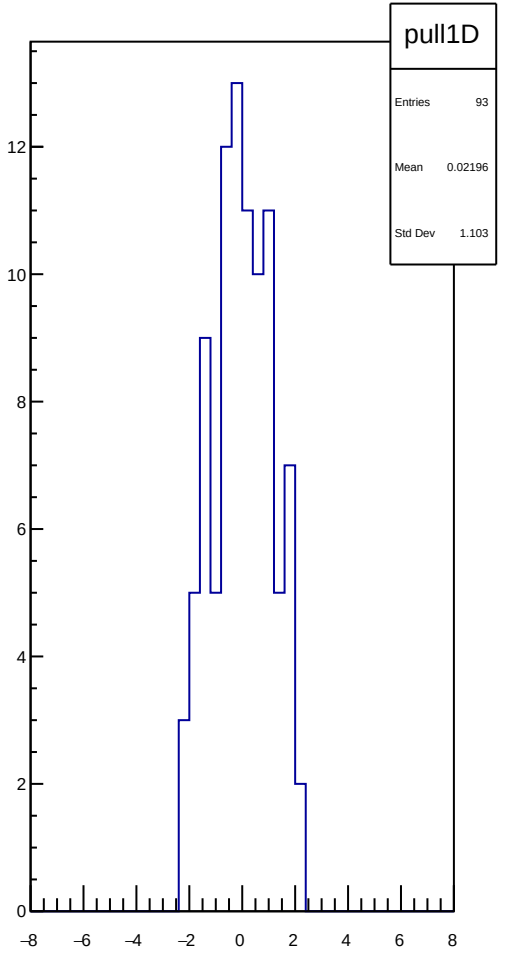

diff_bpm12X_rms vs run
χ² / ndf 2974 / 92
p0 3.887e+04 ± 28.73
43000
42000
41000
40000
39000
38000
37000
36000
35000

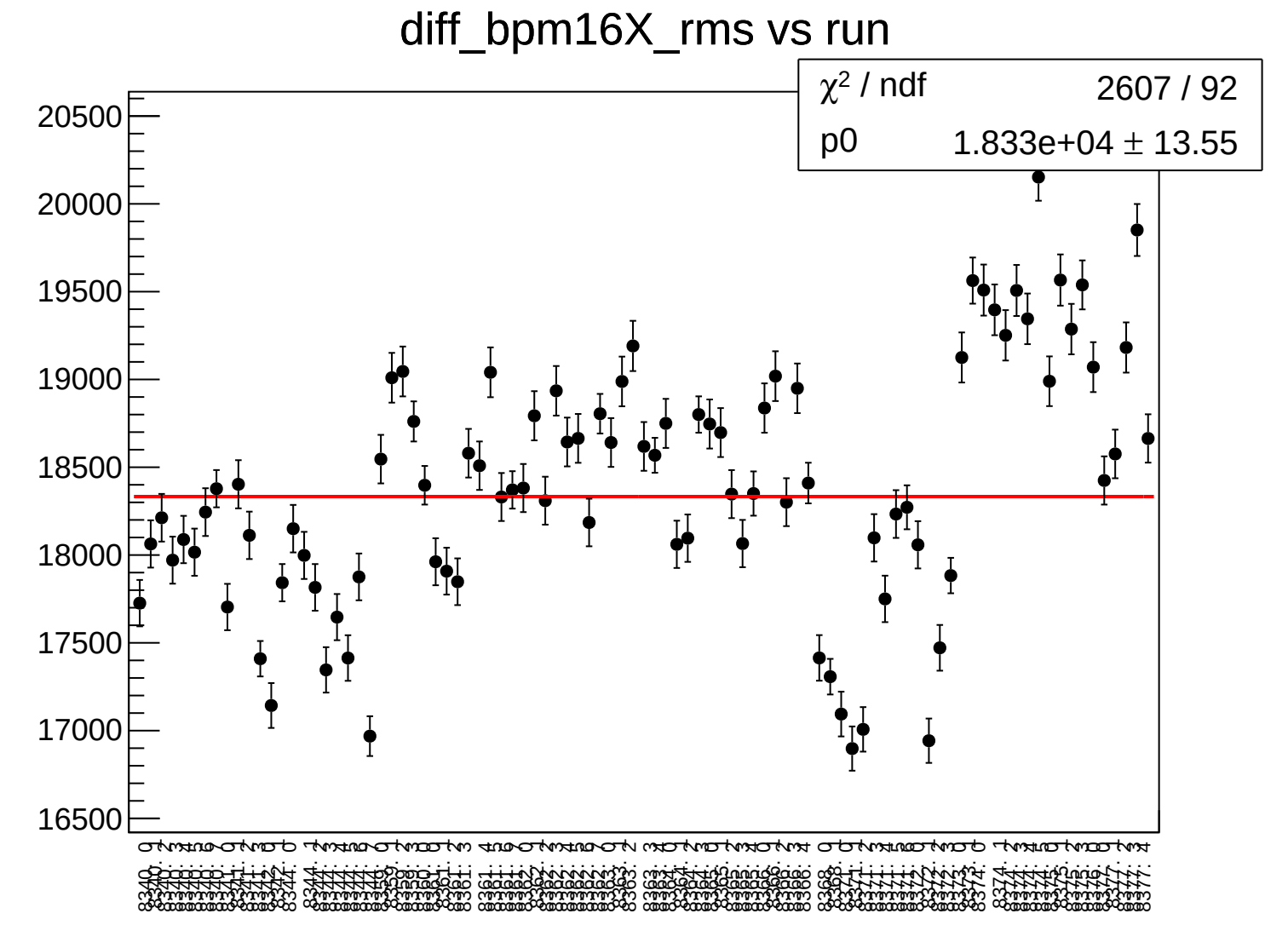

diff_bpm12Y_mean vs run
χ^2 / ndf 102.4 / 92
p0 16.34 ± 2.208
pull
Entries 93
Mean −95.47
Std Dev 0

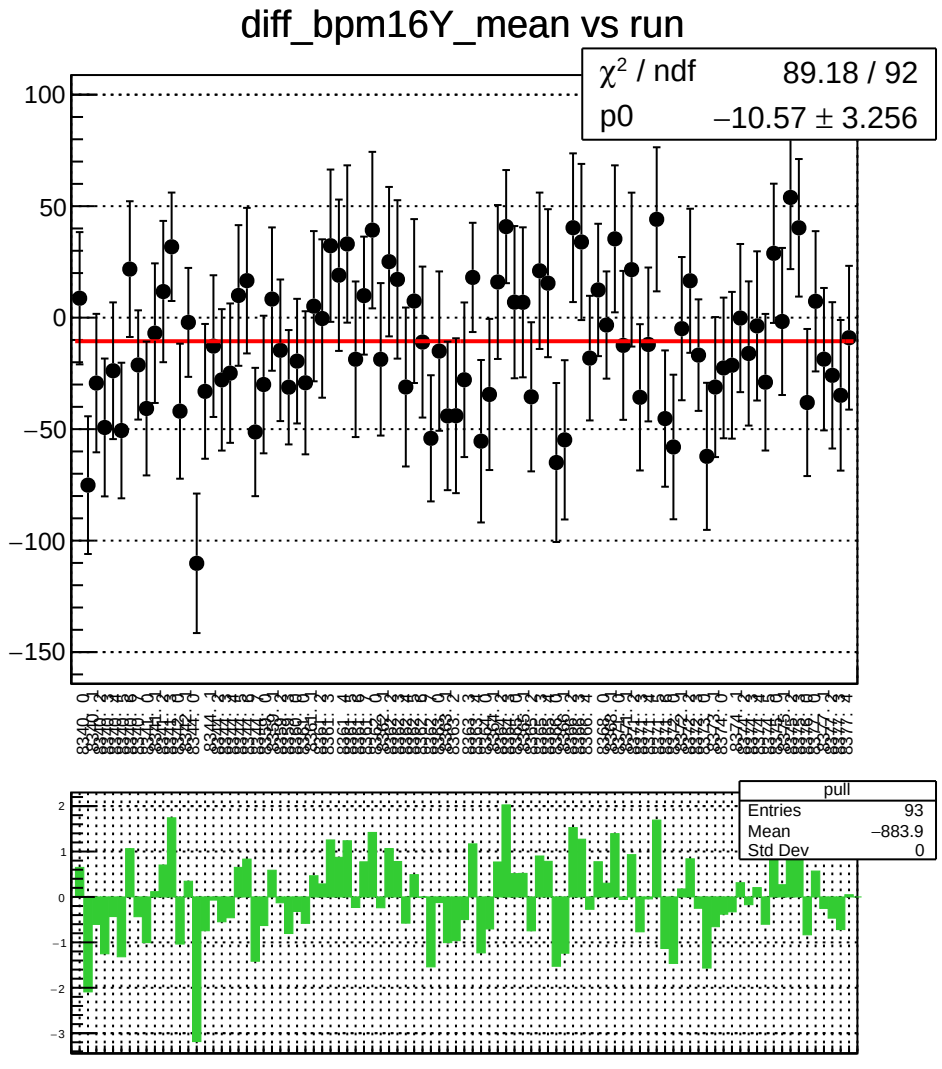

pull1D
Entries 93
Mean −0.00815
Std Dev 1.049

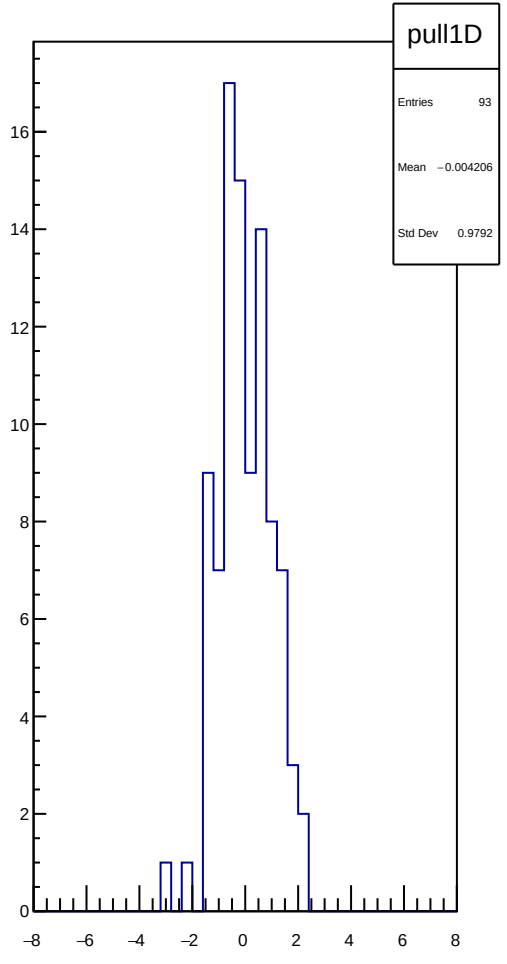

diff_bpm12Y_rms vs run
χ² / ndf 1443 / 92
p0 2113 ± 1.561
2300
2250
2200
2150
2100
2050
2000
1950
1900

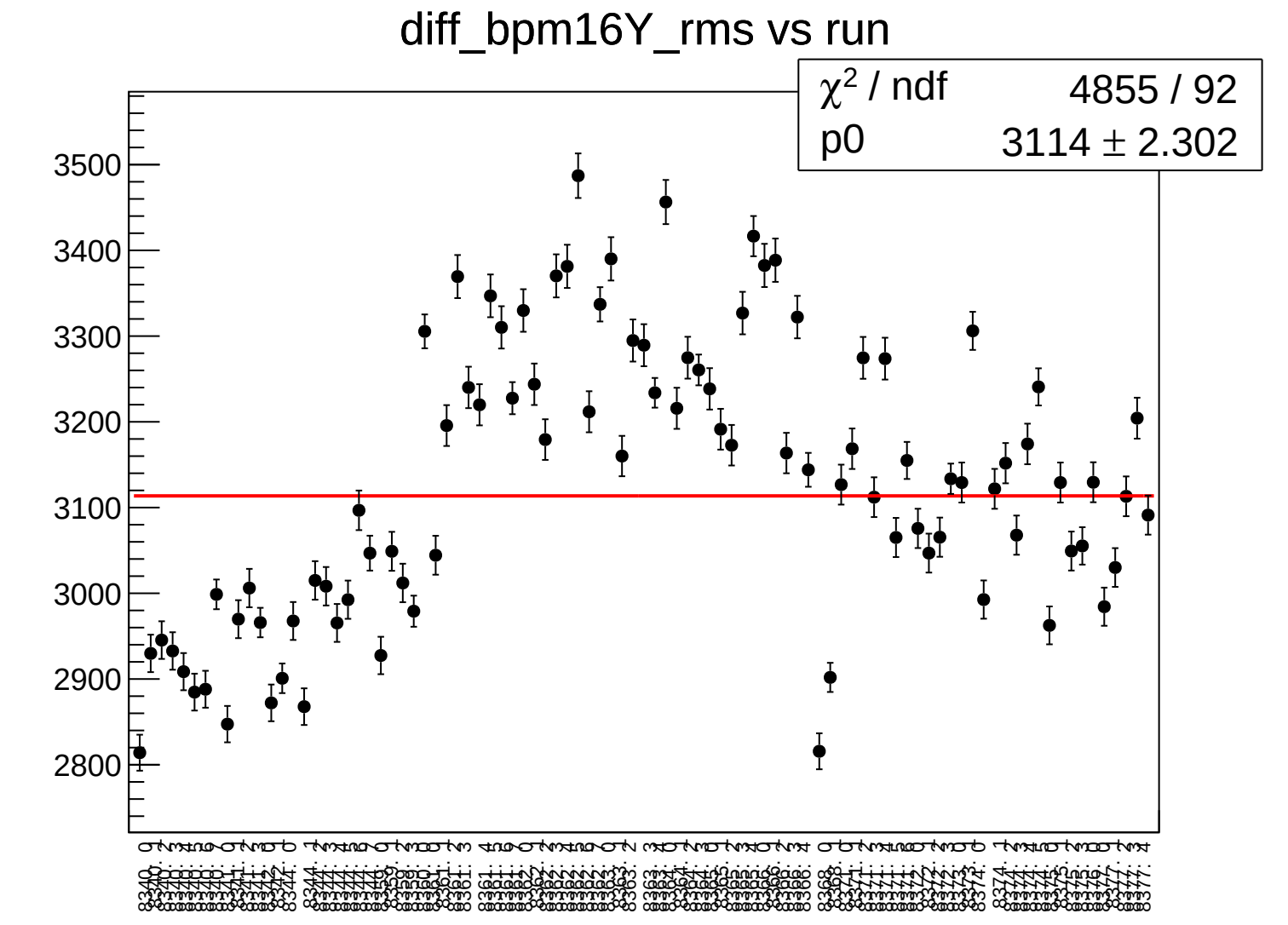

diff_bpm16X_mean vs run
χ² / ndf 113.1 / 92
p0 34.04 ± 19.16
pull
Entries 93
Mean −197.2
Std Dev 0

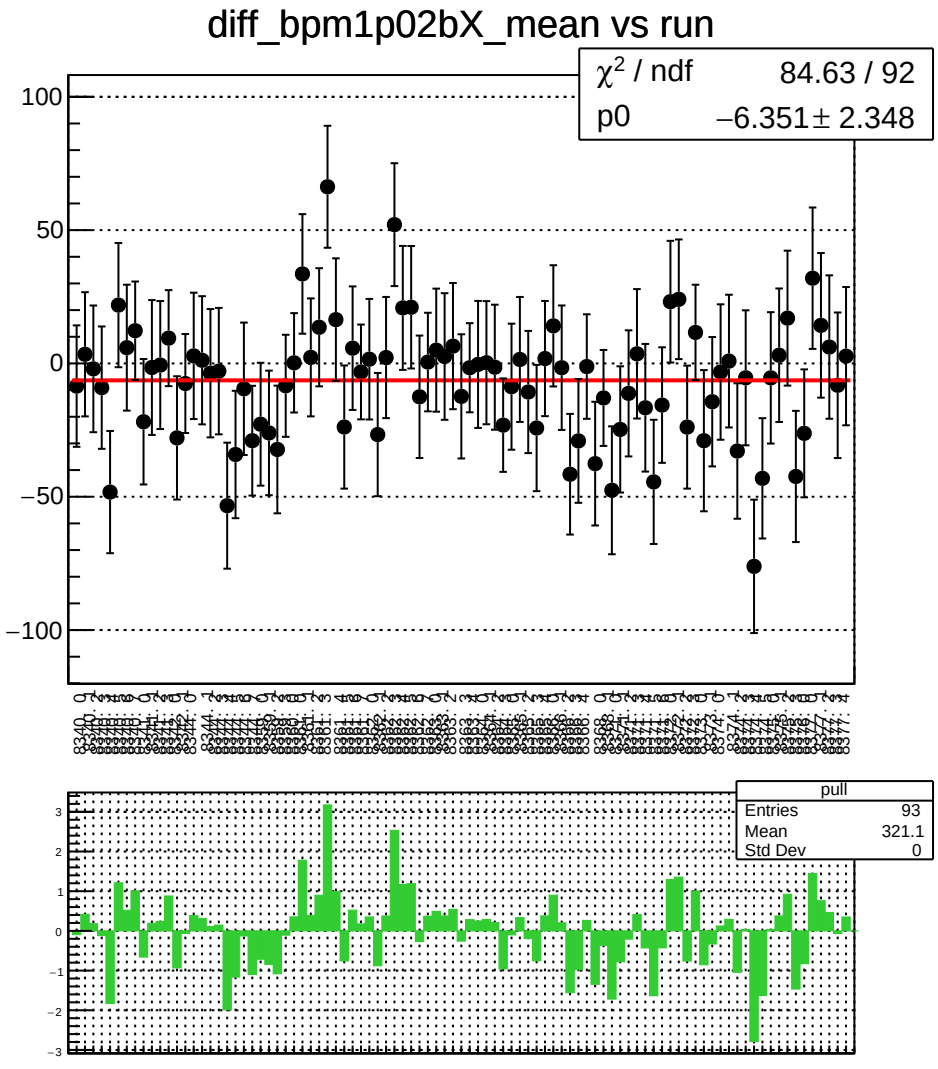

pull1D
Entries 93
Mean 0.02196
Std Dev 1.103

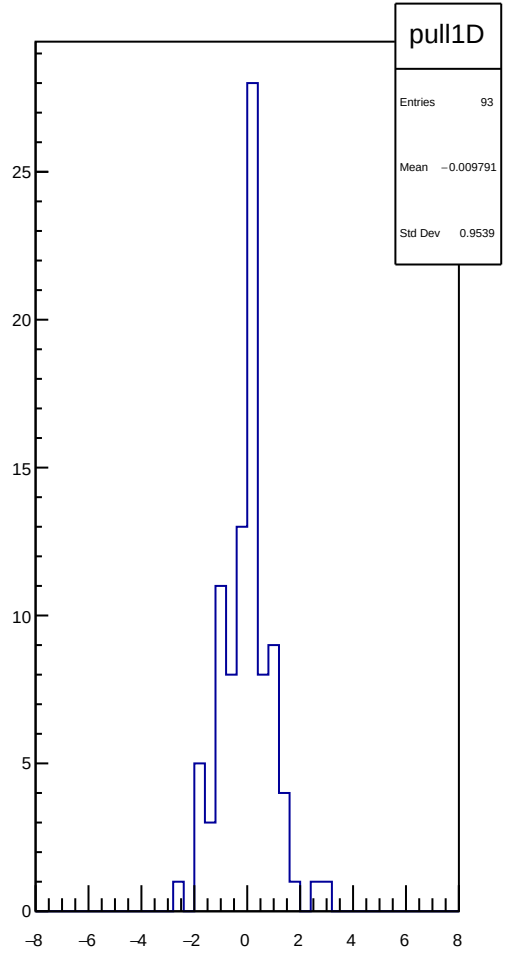

diff_bpm16X_rms vs run
χ² / ndf 2607 / 92
p0 1.833e+04 ± 13.55
20500
20000
19500
19000
18500
18000
17500
17000
16500

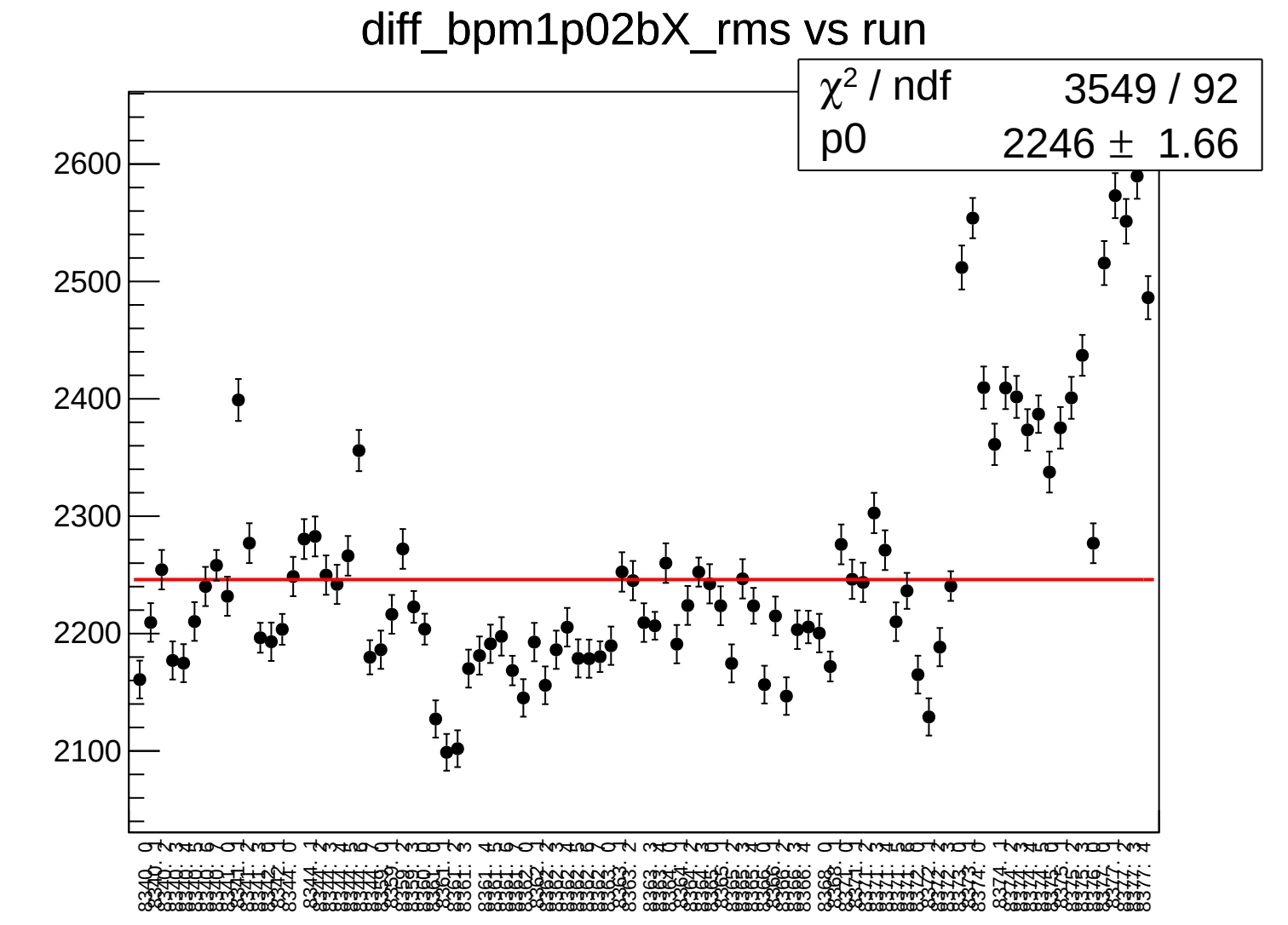

diff_bpm16Y_mean vs run
χ² / ndf 89.18 / 92
p0 −10.57 ± 3.256
100
50
0
−50
−100
−150
pull
Entries 93
Mean −883.9
Std Dev 0
2
1
0
−1
−2
−3

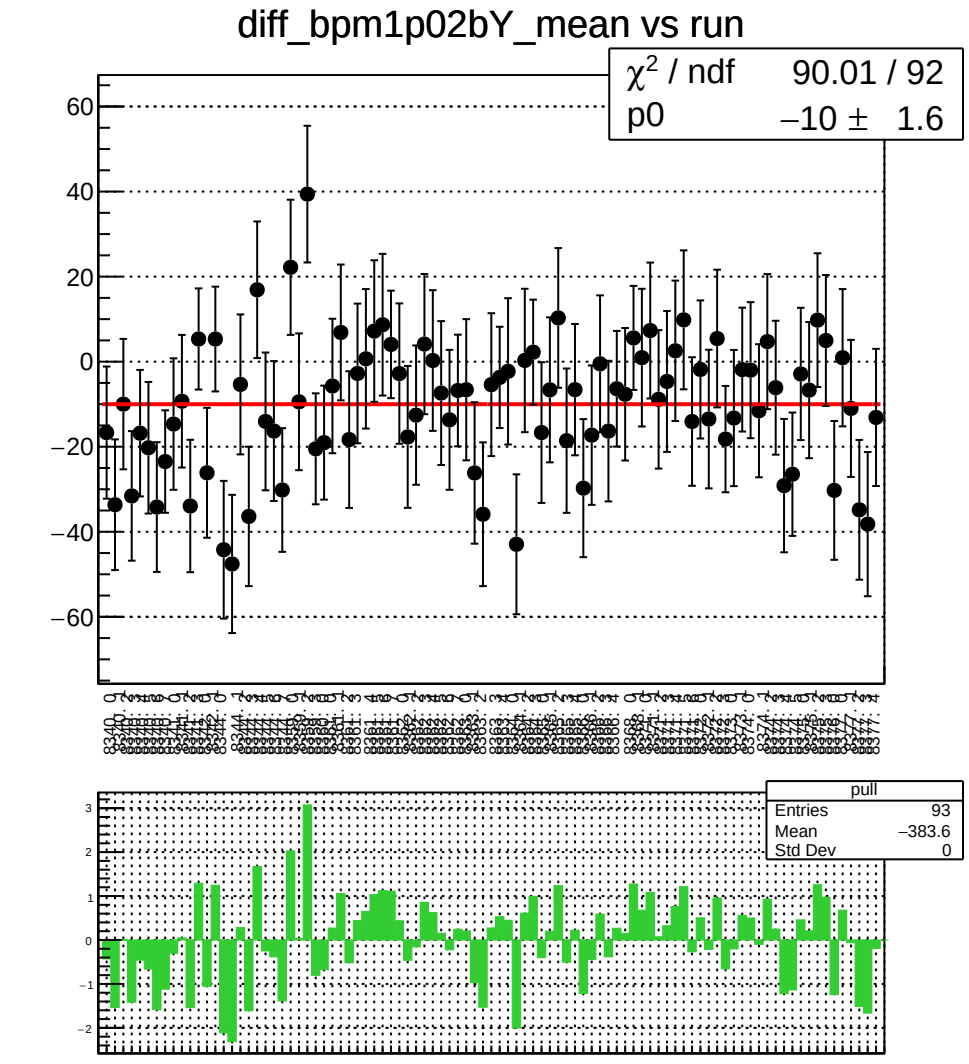

pull1D
Entries 93
Mean −0.004206
Std Dev 0.9792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

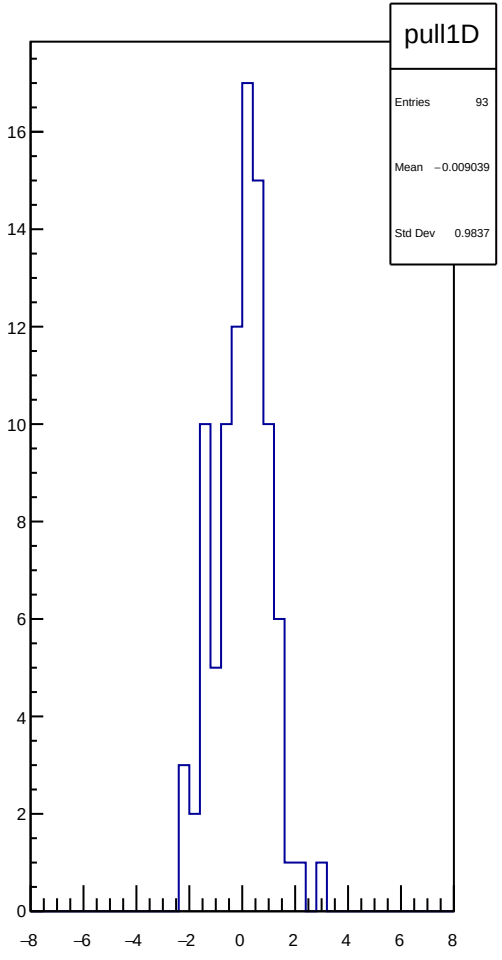

diff_bpm16Y_rms vs run
χ² / ndf 4855 / 92
p0 3114 ± 2.302
3500
3400
3300
3200
3100
3000
2900
2800

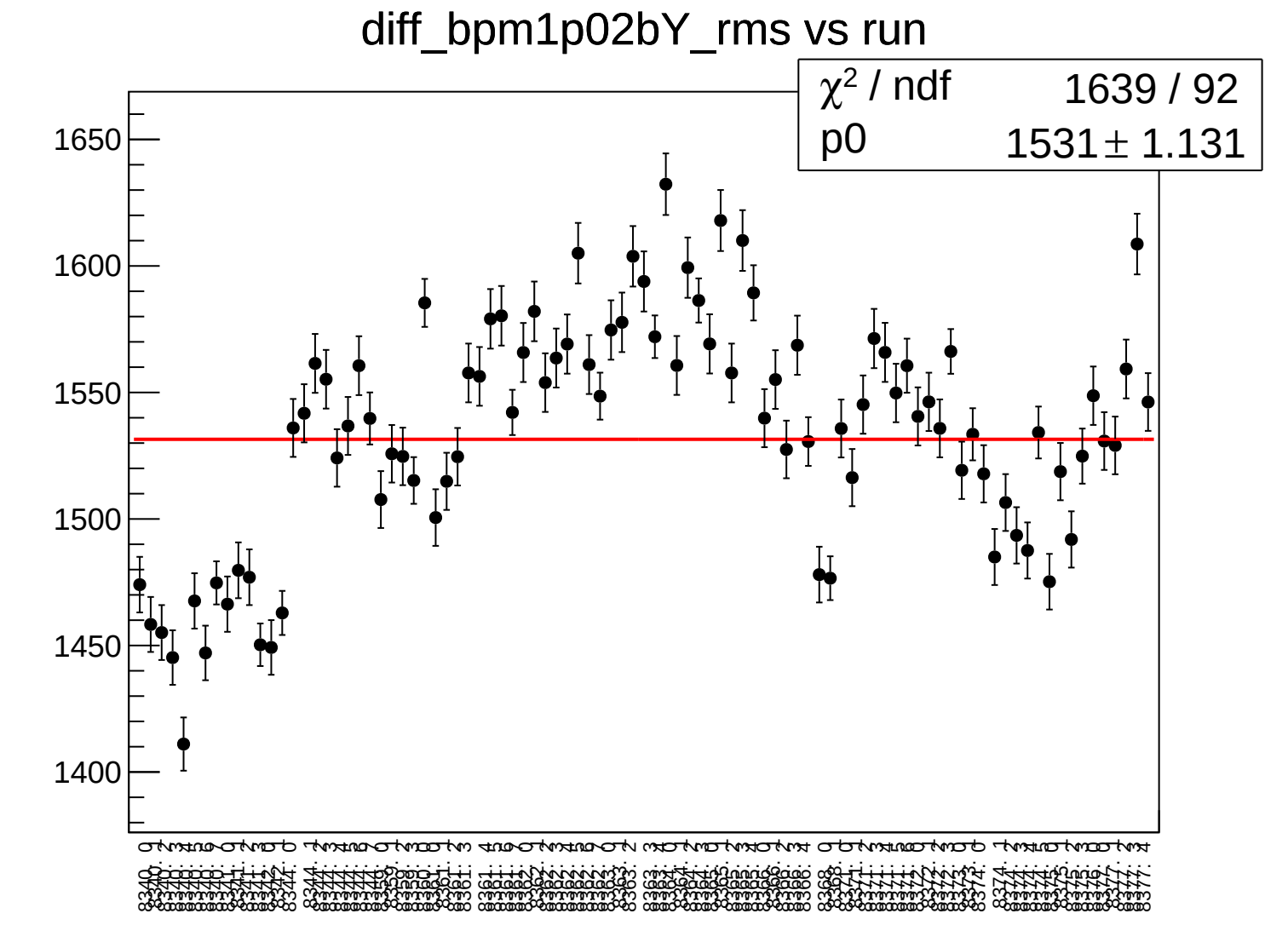

diff_bpm1p02bX_mean vs run
χ² / ndf 84.63 / 92
p0 −6.351 ± 2.348
100
50
0
−50
−100
pull
Entries 93
Mean 321.1
Std Dev 0
3
2
1
0
−1
−2
−3

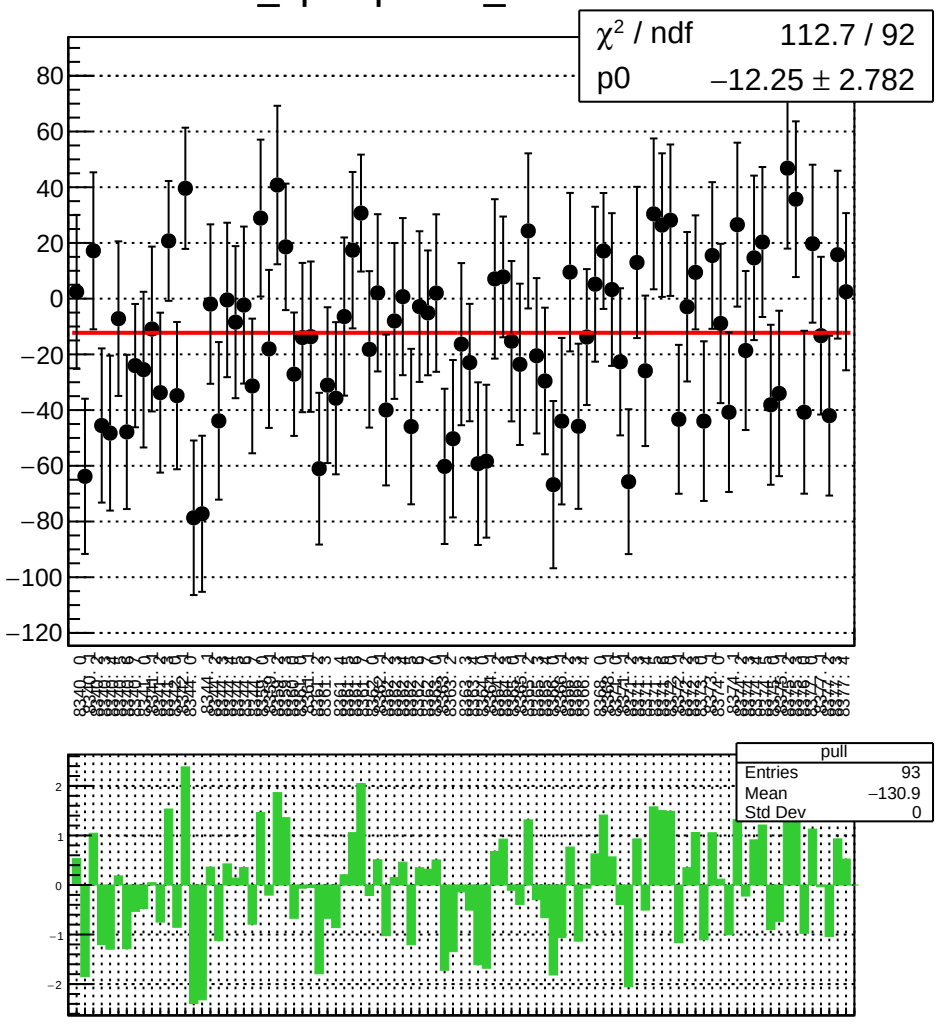

pull1D
Entries 93
Mean −0.009791
Std Dev 0.9539
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

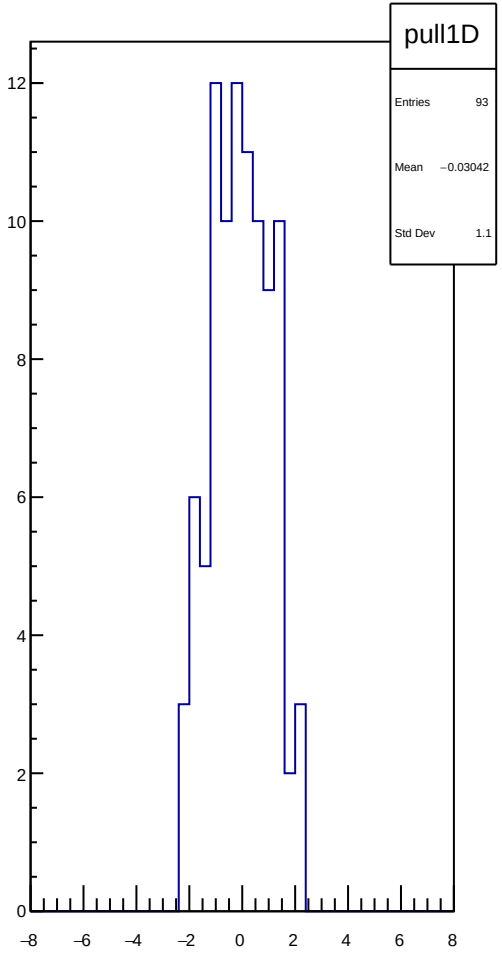

diff_bpm1p02bX_rms vs run
χ² / ndf 3549 / 92
p0 2246 ± 1.66
2600
2500
2400
2300
2200
2100

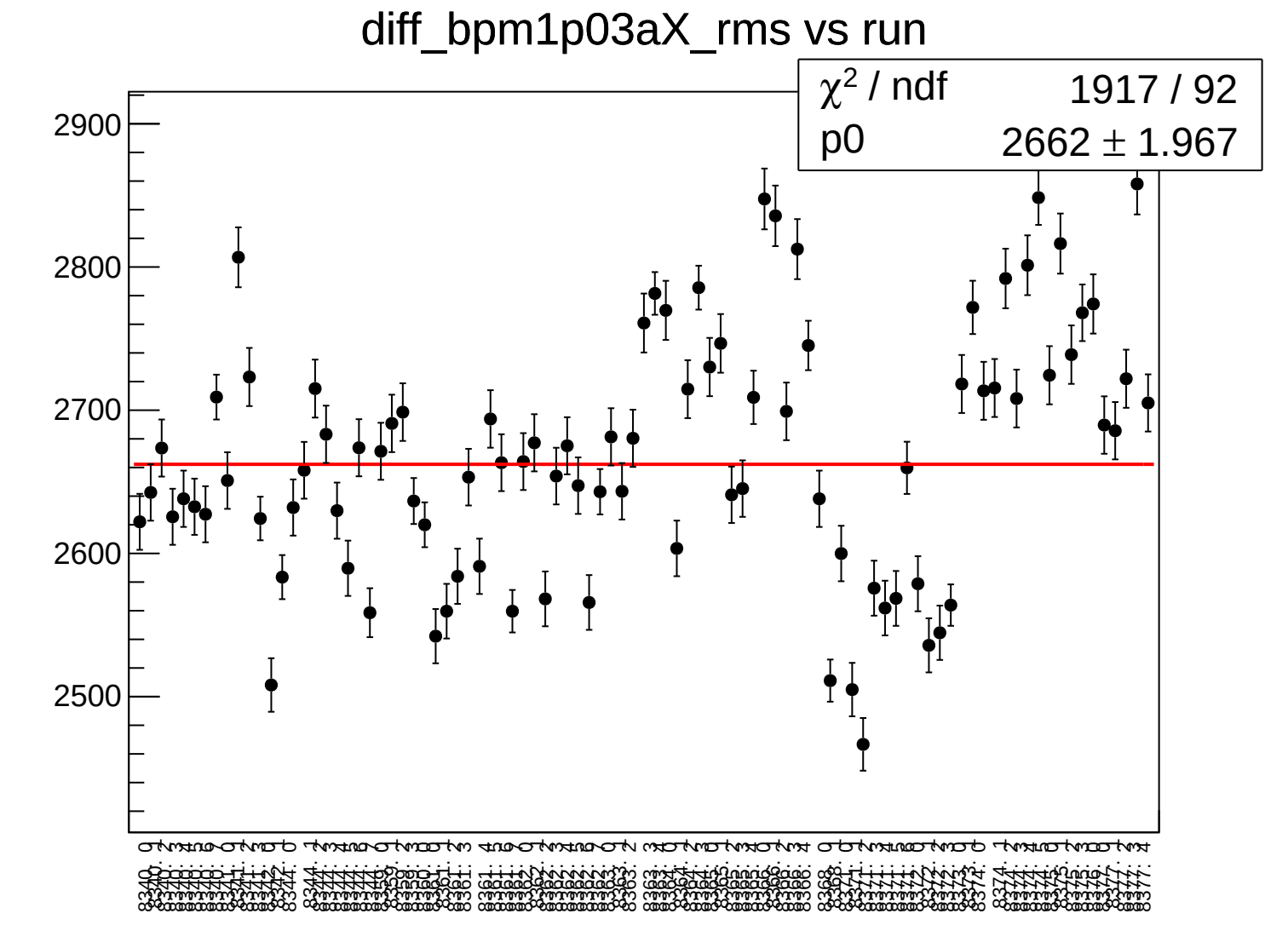

diff_bpm1p02bY_mean vs run
χ² / ndf 90.01 / 92
p0 −10 ± 1.6
pull
Entries 93
Mean −383.6
Std Dev 0

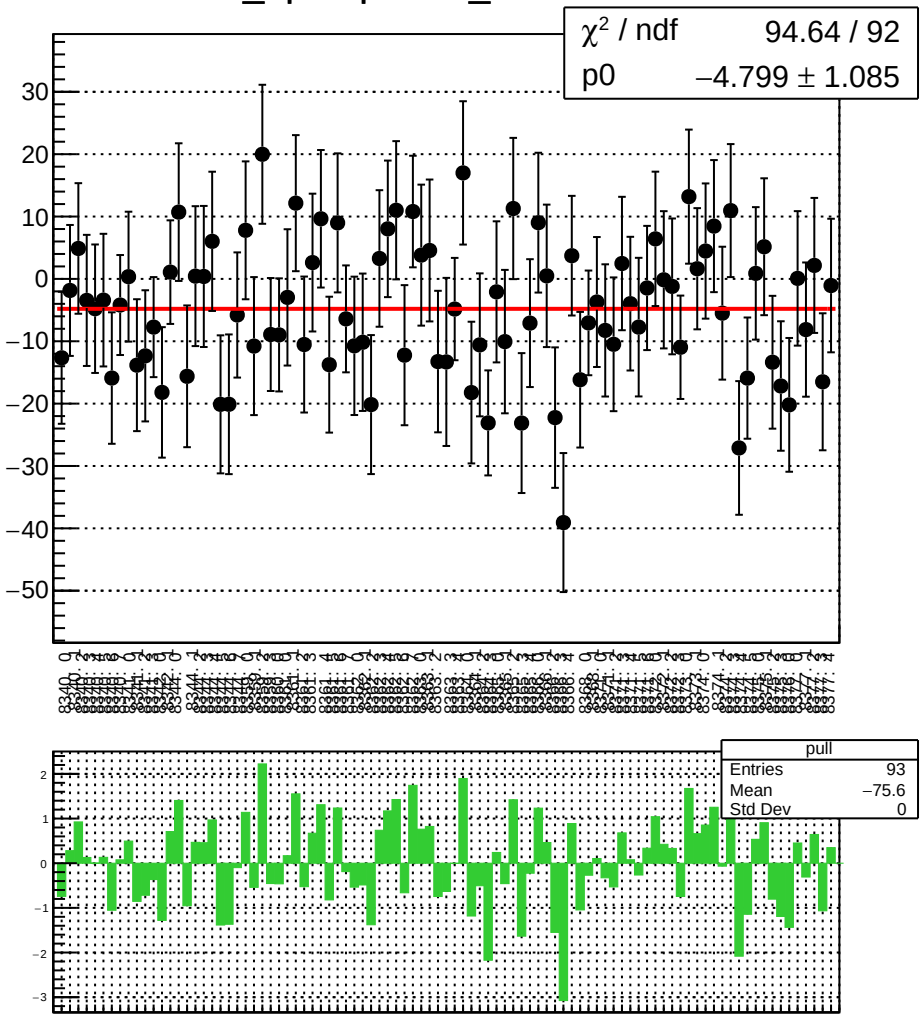

pull1D
Entries 93
Mean −0.009039
Std Dev 0.9837

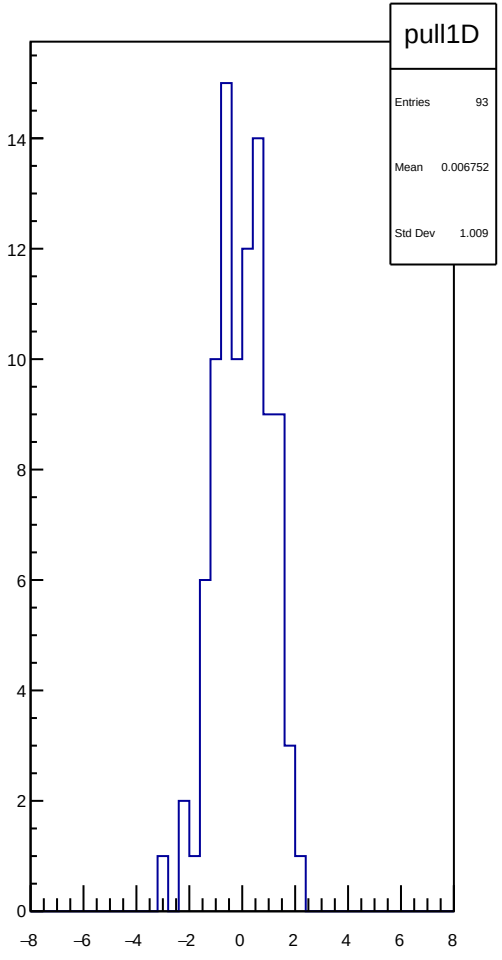

diff_bpm1p02bY_rms vs run
χ² / ndf 1639 / 92
p0 1531 ± 1.131
1650
1600
1550
1500
1450
1400

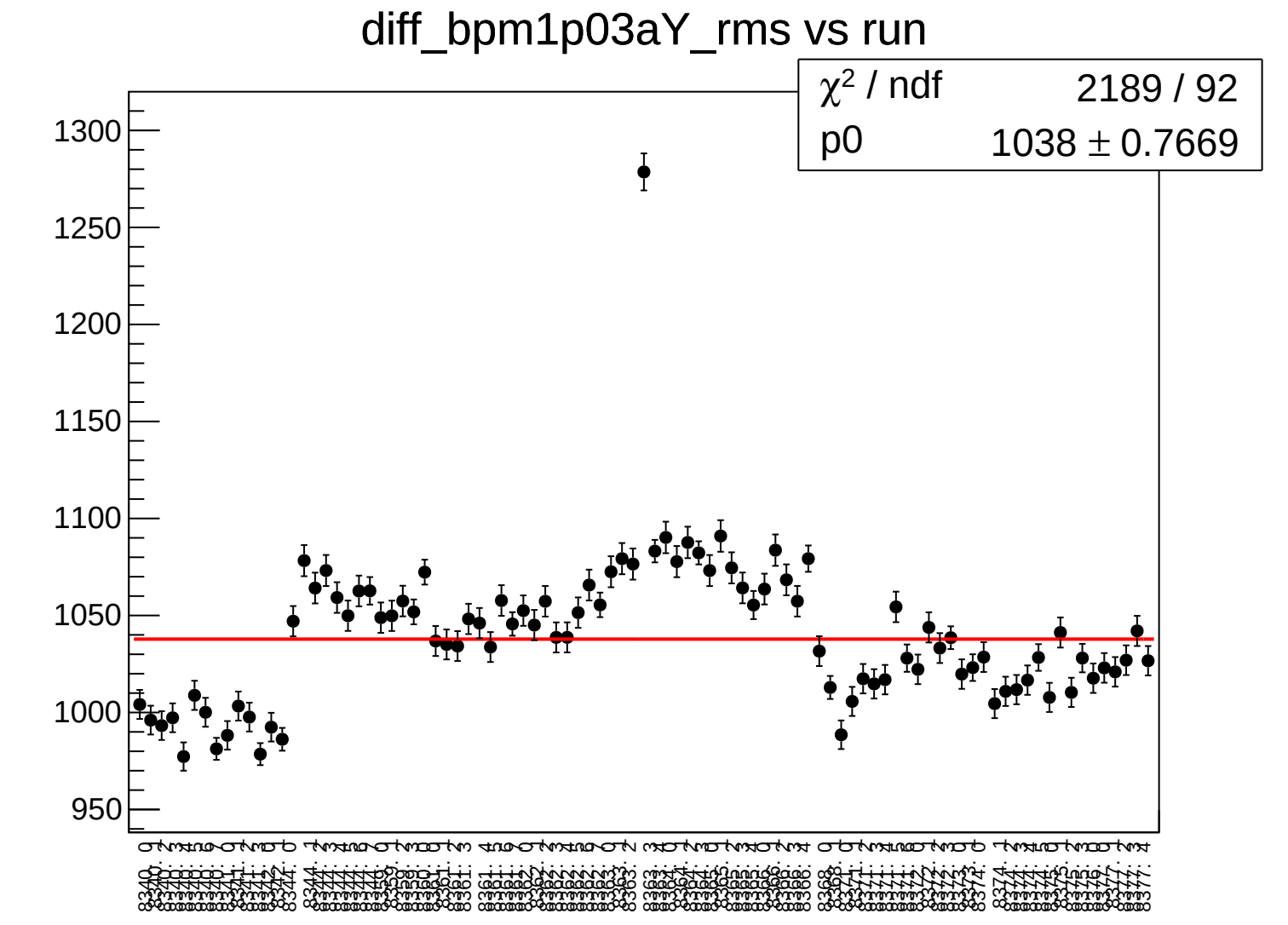

diff_bpm1p03aX_mean vs run
χ² / ndf 112.7 / 92
p0 −12.25 ± 2.782
pull
Entries 93
Mean −130.9
Std Dev 0

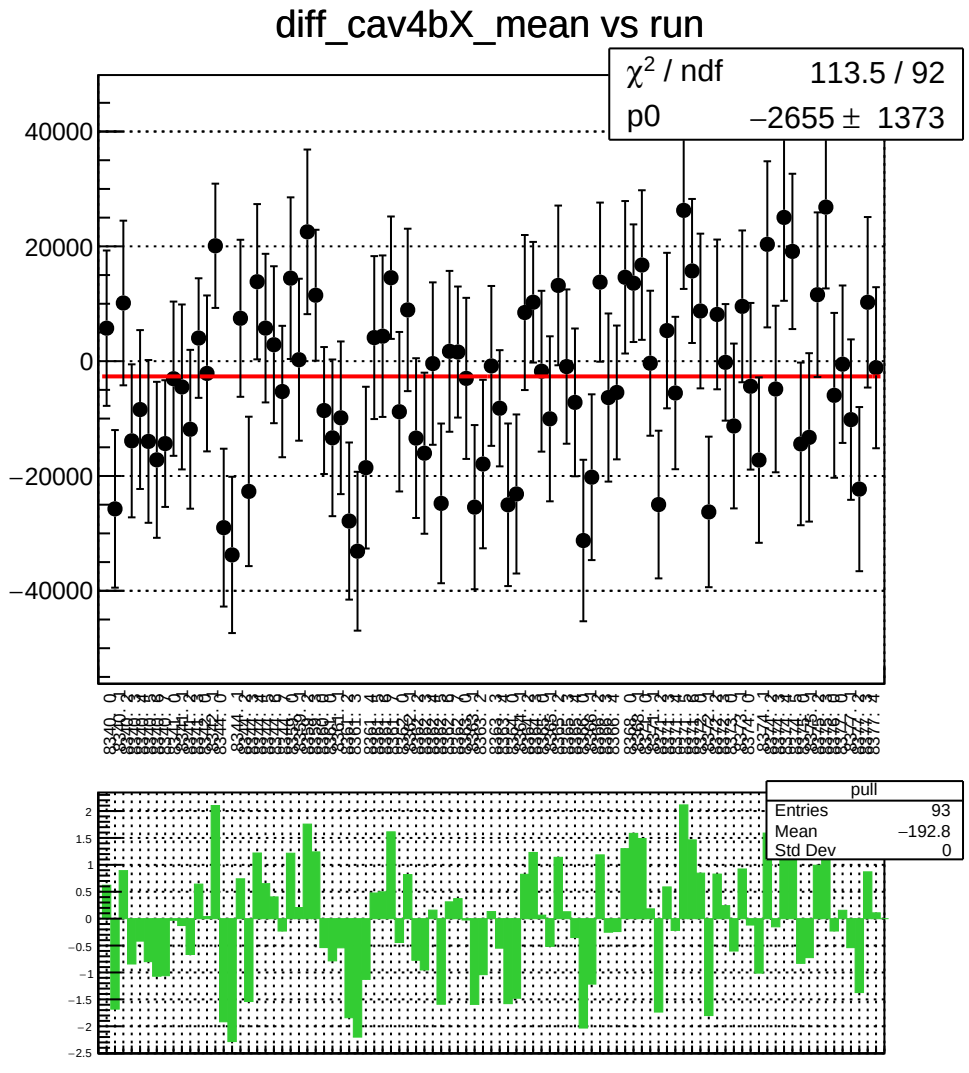

pull1D
Entries 93
Mean −0.03042
Std Dev 1.1

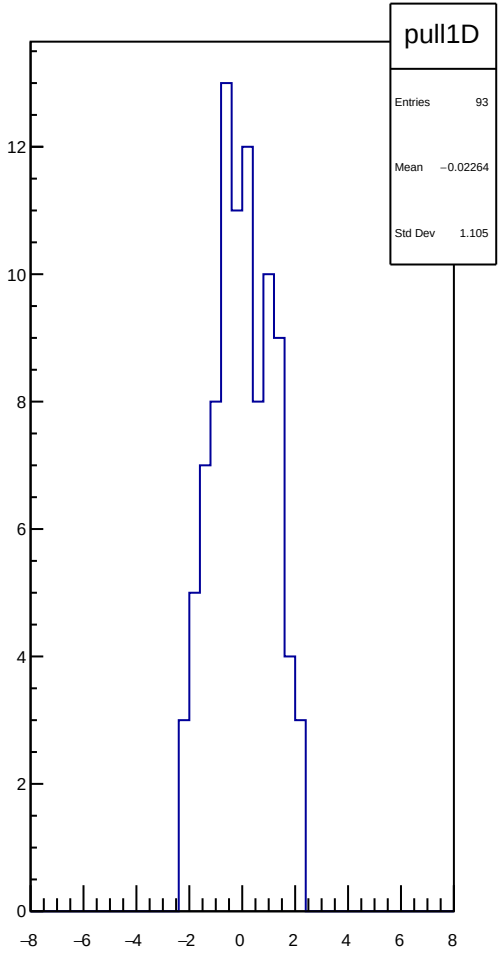

diff_bpm1p03aX_rms vs run
χ^2 / ndf 1917 / 92
p0 2662 ± 1.967
2900
2800
2700
2600
2500

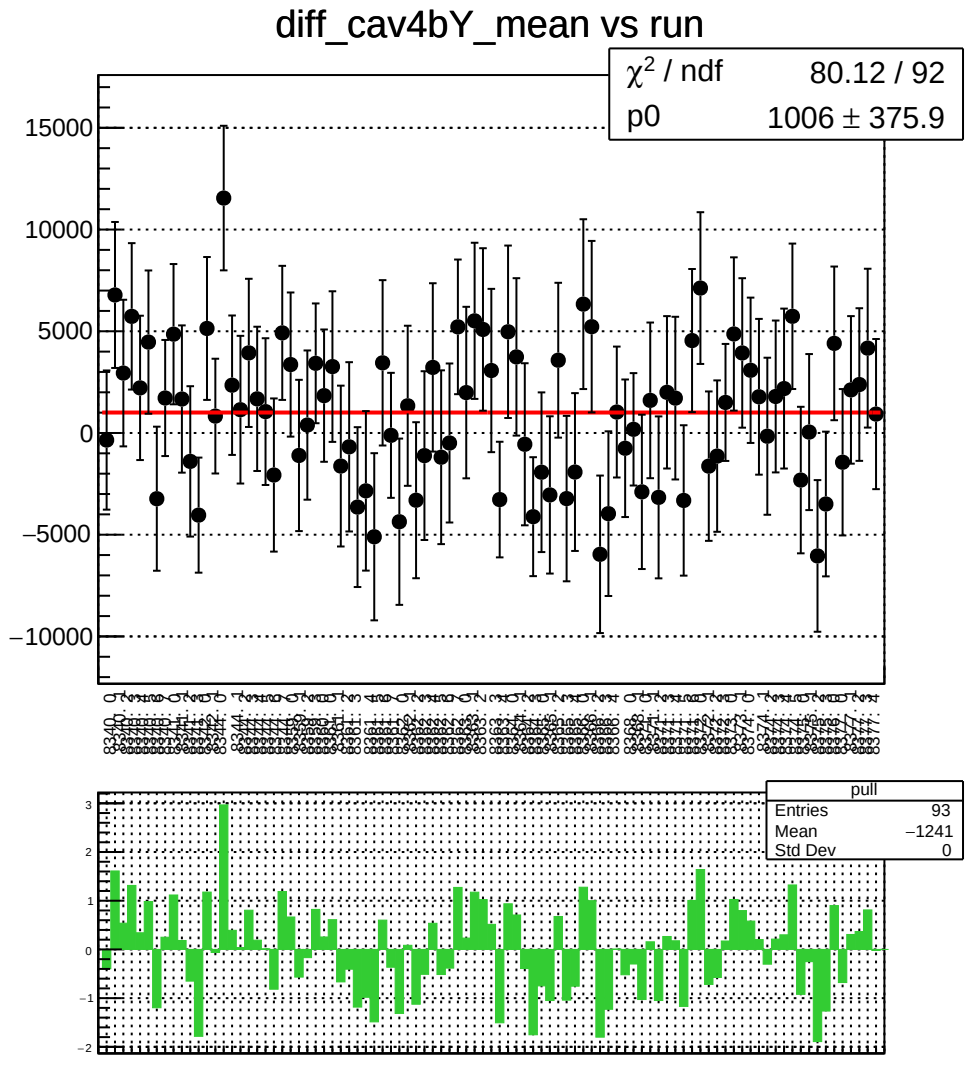

diff_bpm1p03aY_mean vs run
χ² / ndf 94.64 / 92
p0 −4.799 ± 1.085
pull
Entries 93
Mean −75.6
Std Dev 0

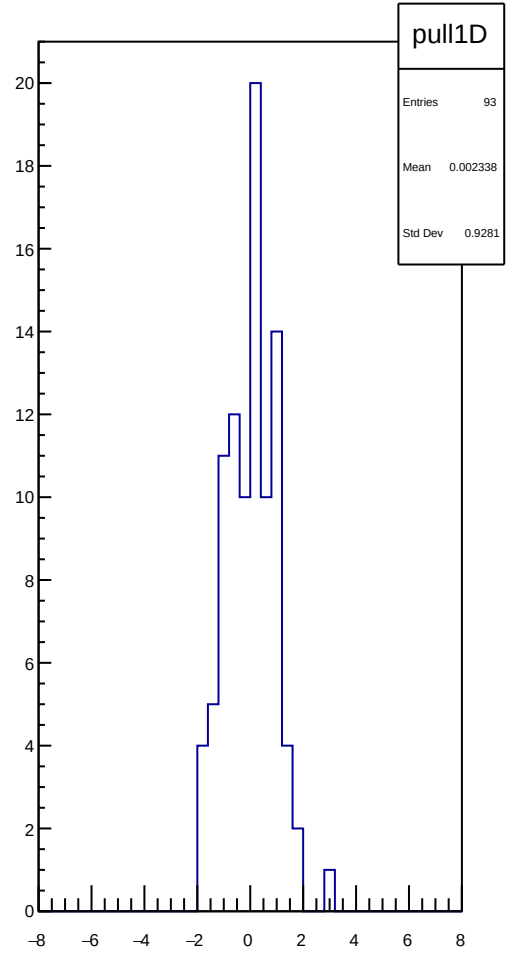

pull1D
Entries 93
Mean 0.006752
Std Dev 1.009

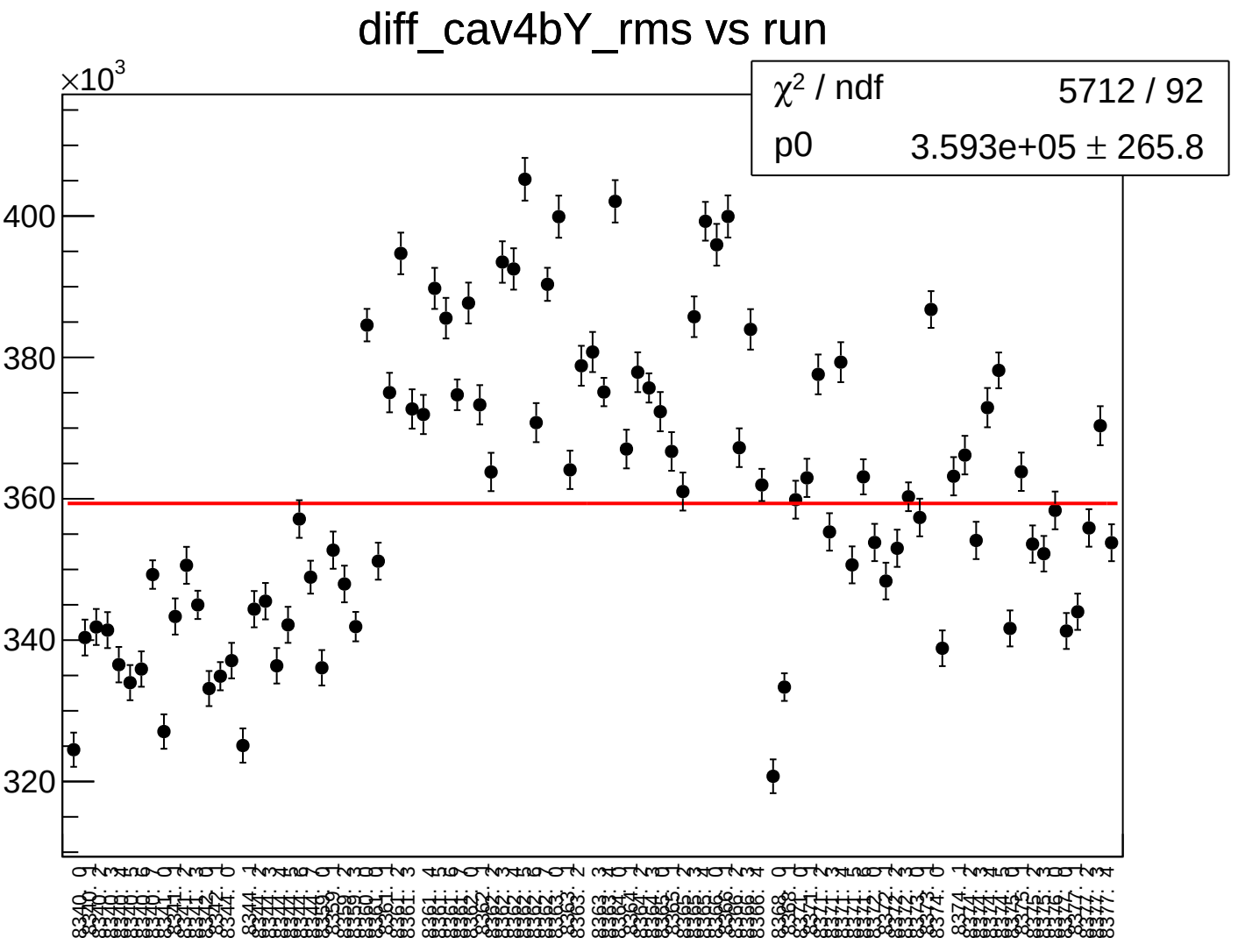

diff_bpm1p03aY_rms vs run
χ² / ndf 2189 / 92
p0 1038 ± 0.7669
1300
1250
1200
1150
1100
1050
1000
950

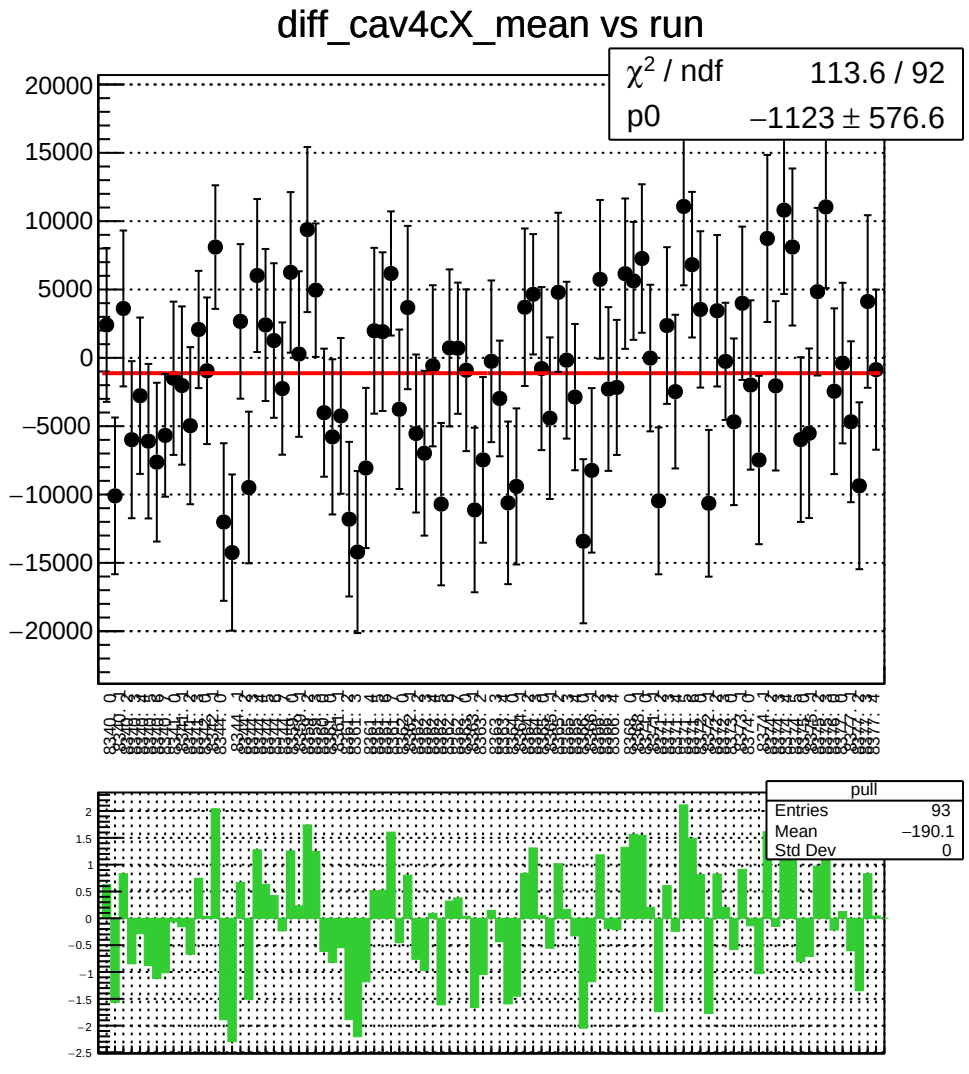

diff_cav4bX_mean vs run
χ² / ndf 113.5 / 92
p0 −2655 ± 1373
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −192.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

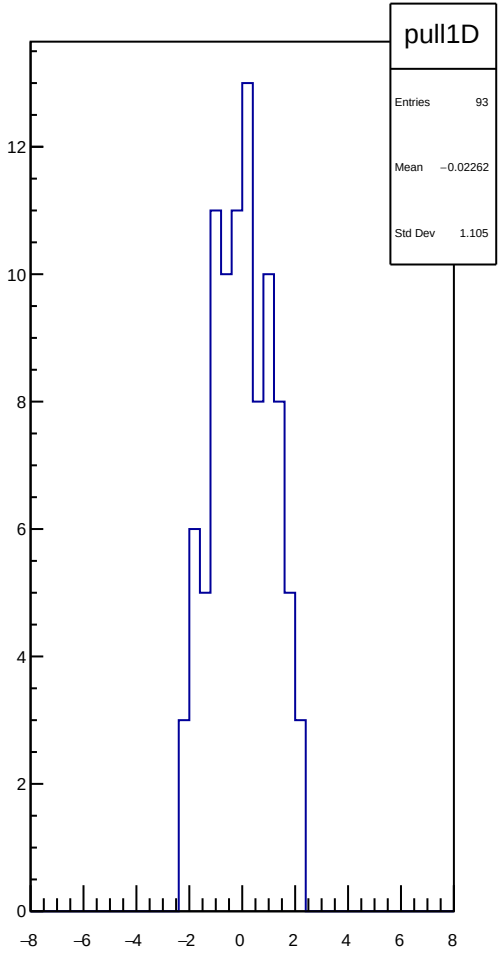

pull1D
Entries 93
Mean −0.02264
Std Dev 1.105
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

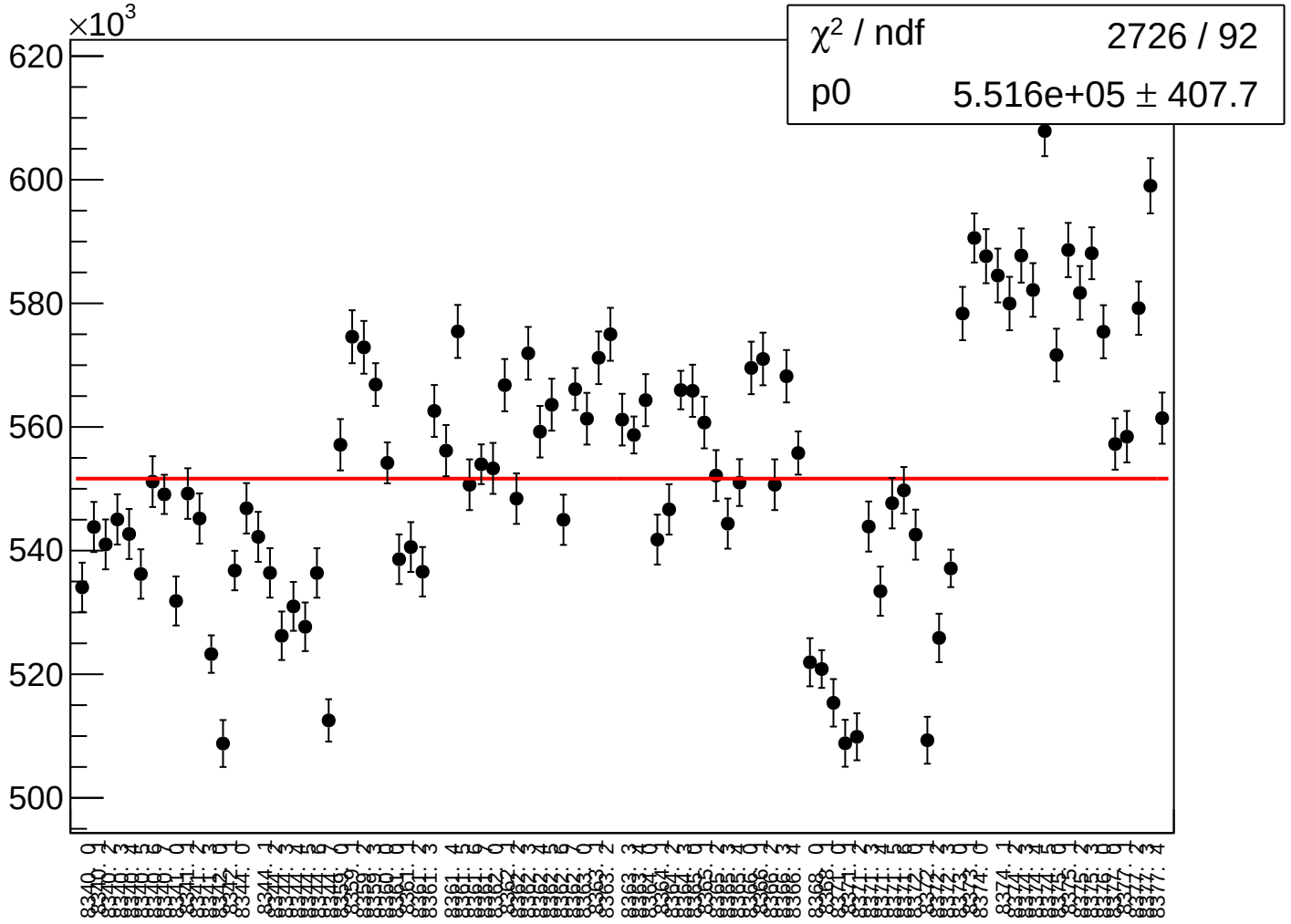

diff_cav4bY_mean vs run
χ² / ndf 80.12 / 92
p0 1006 ± 375.9
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −1241
Std Dev 0
3
2
1
0
−1
−2

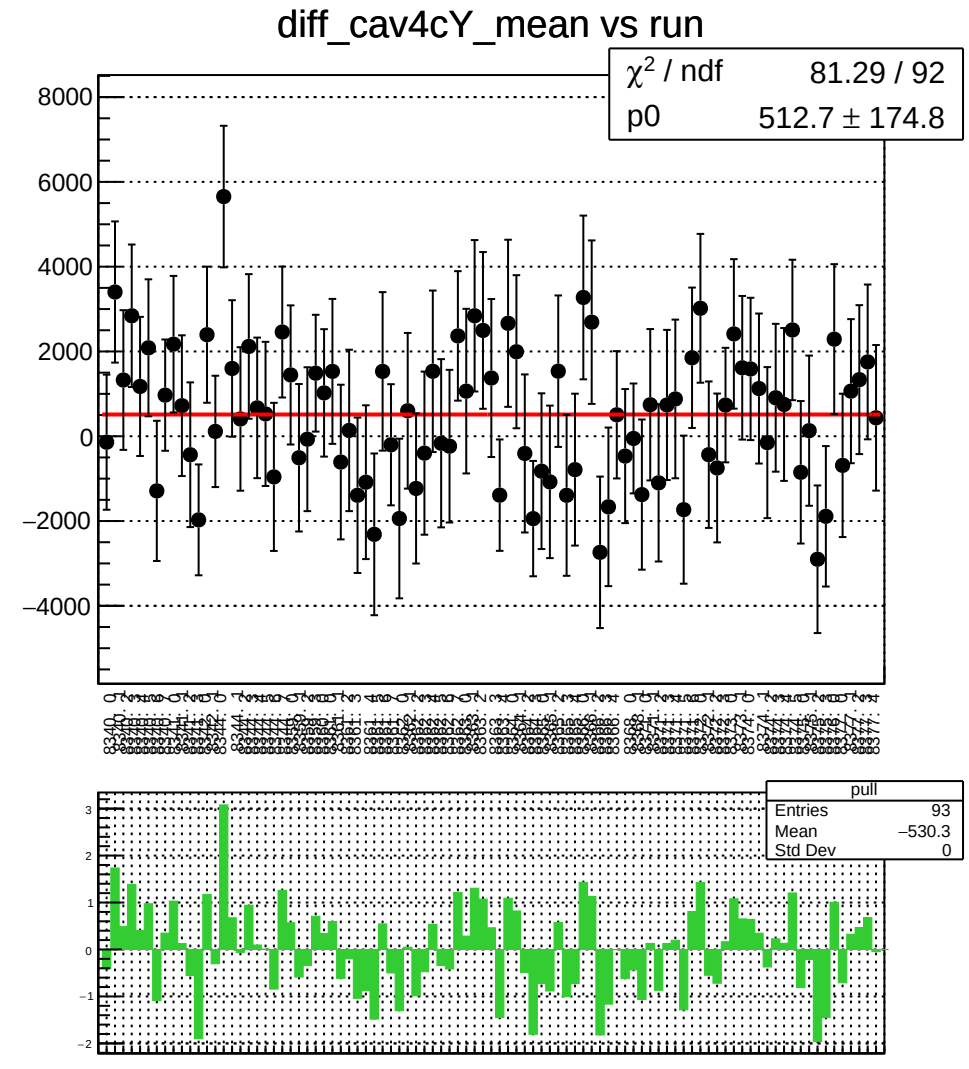

pull1D
Entries 93
Mean 0.002338
Std Dev 0.9281
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

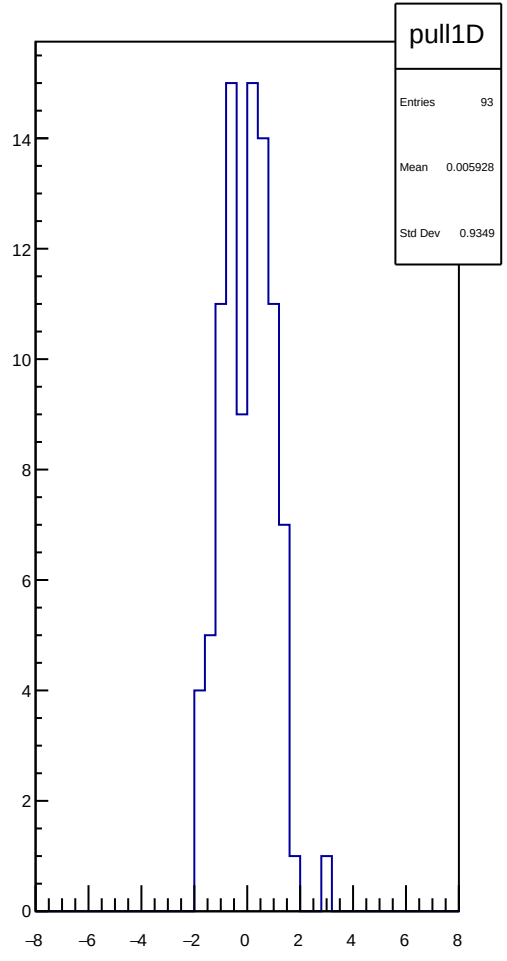

diff_cav4bY_rms vs run
×10^3
χ² / ndf 5712 / 92
p0 3.593e+05 ± 265.8
400
380
360
340
320

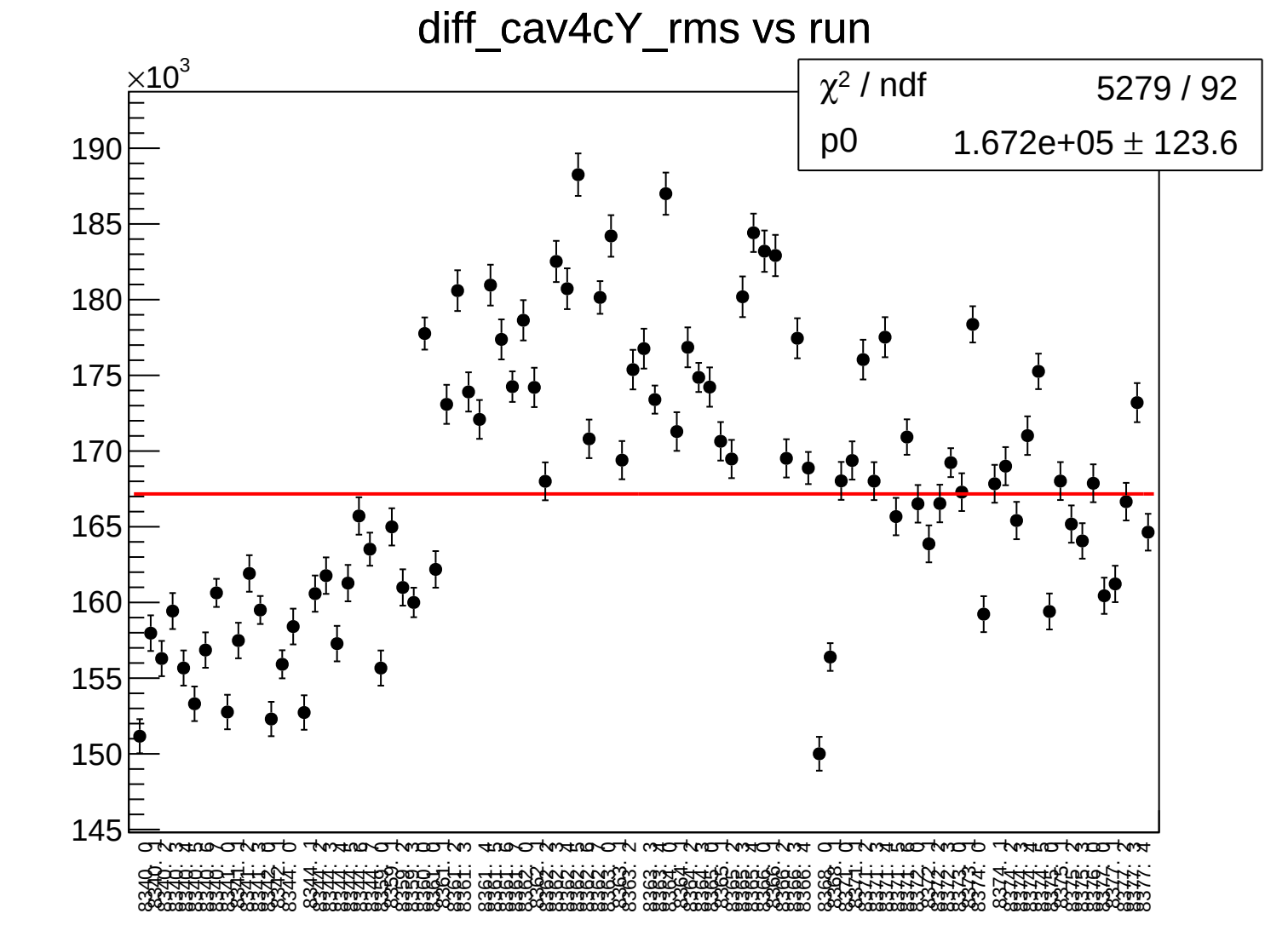

diff_cav4cX_mean vs run
χ² / ndf 113.6 / 92
p0 −1123 ± 576.6
pull
Entries 93
Mean −190.1
Std Dev 0

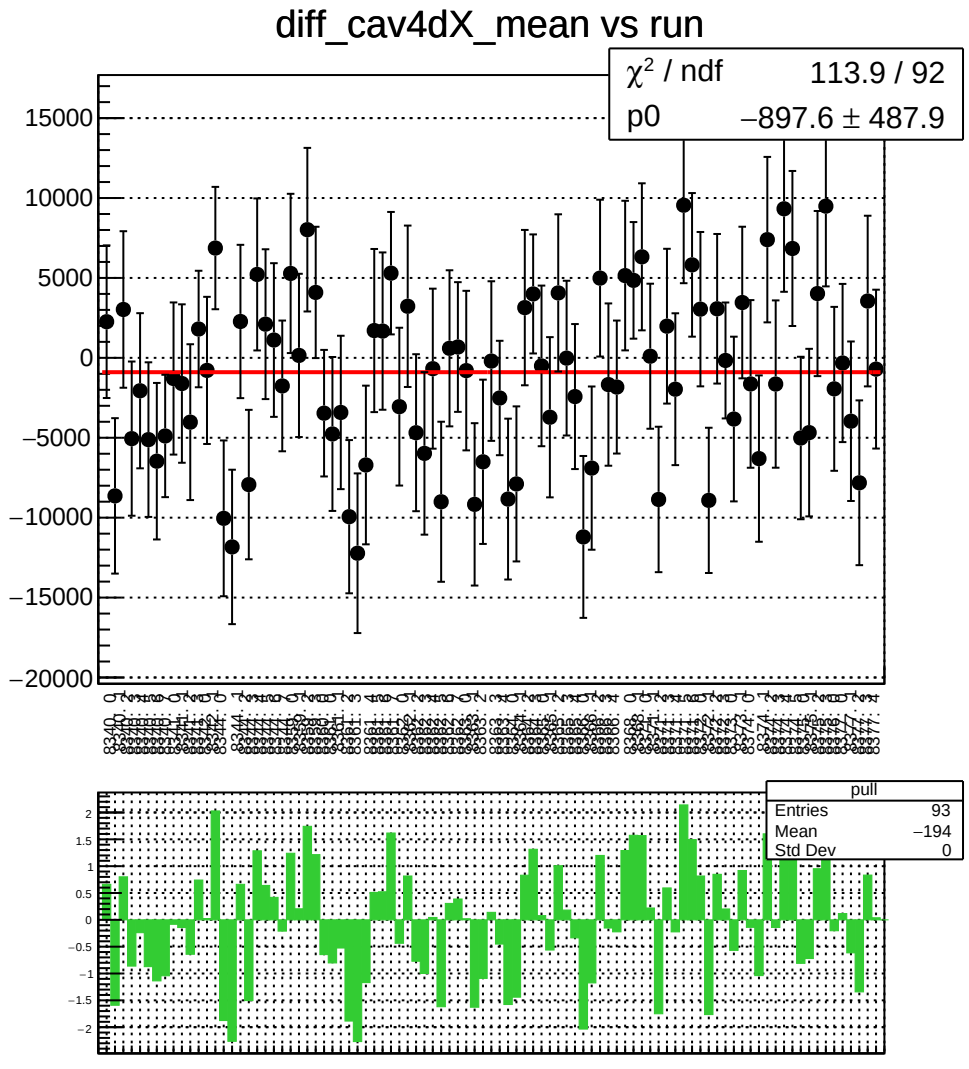

pull1D
Entries 93
Mean −0.02262
Std Dev 1.105

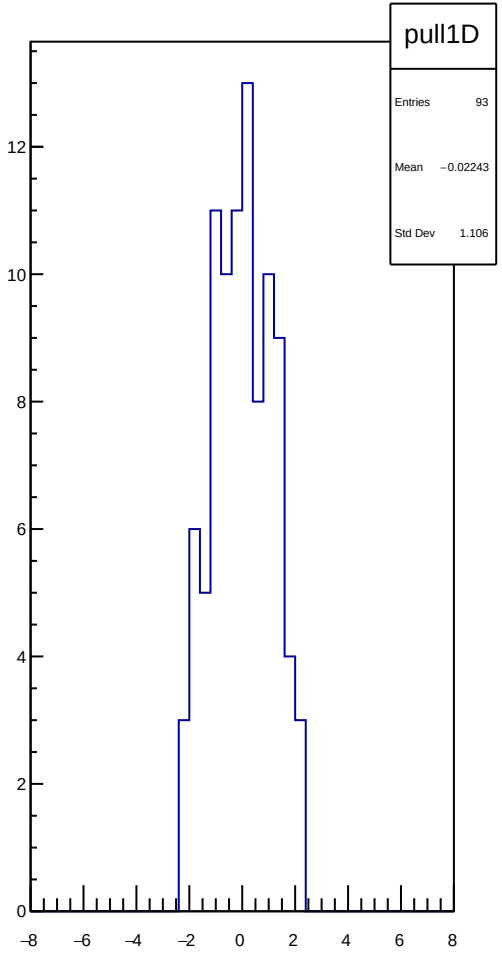

diff_cav4cX_rms vs run
×10^3
620
600
580
560
540
520
500
χ² / ndf 2726 / 92
p0 5.516e+05 ± 407.7

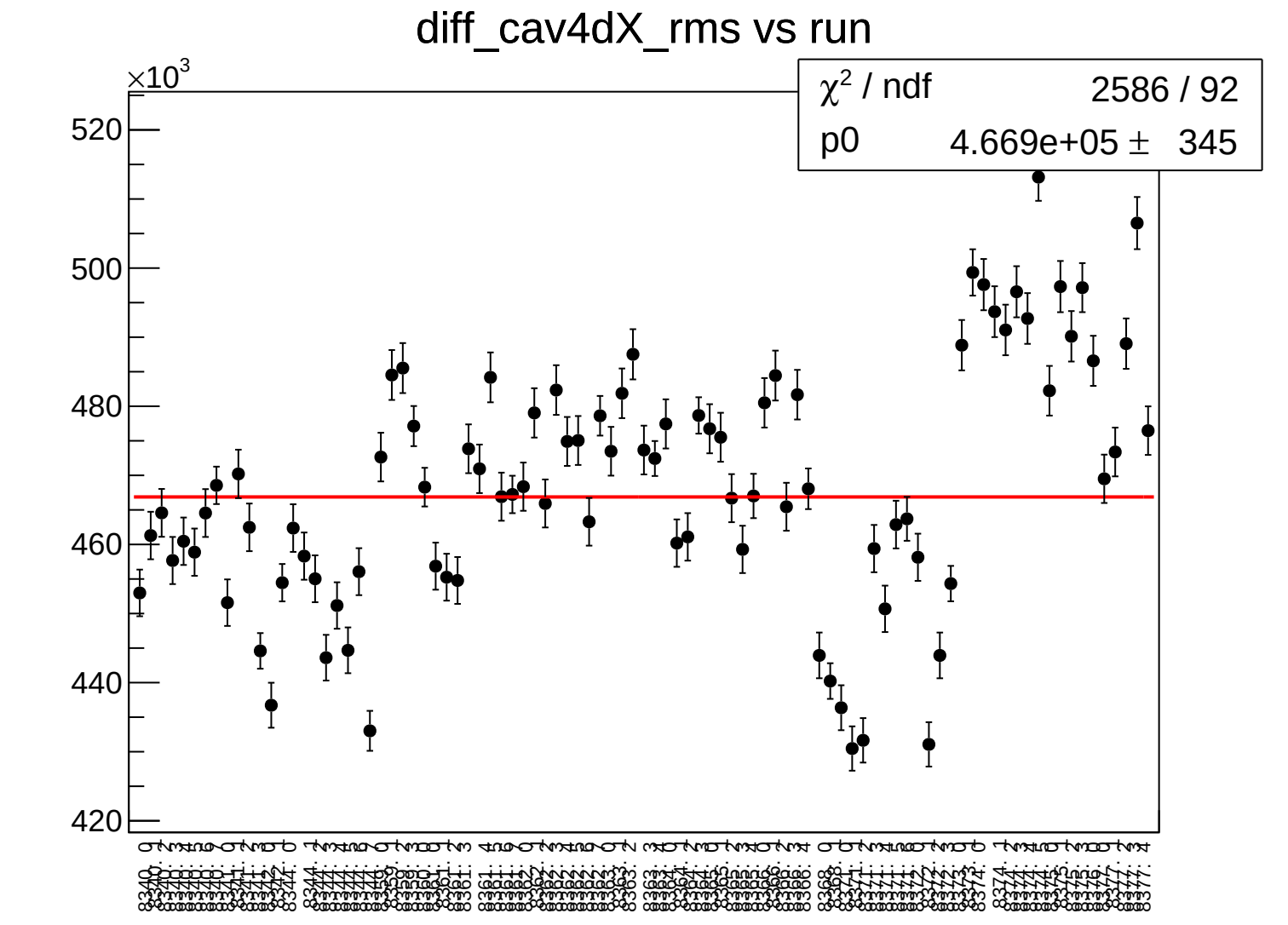

diff_cav4cY_mean vs run
χ² / ndf 81.29 / 92
p0 512.7 ± 174.8
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −530.3
Std Dev 0
3
2
1
0
−1
−2

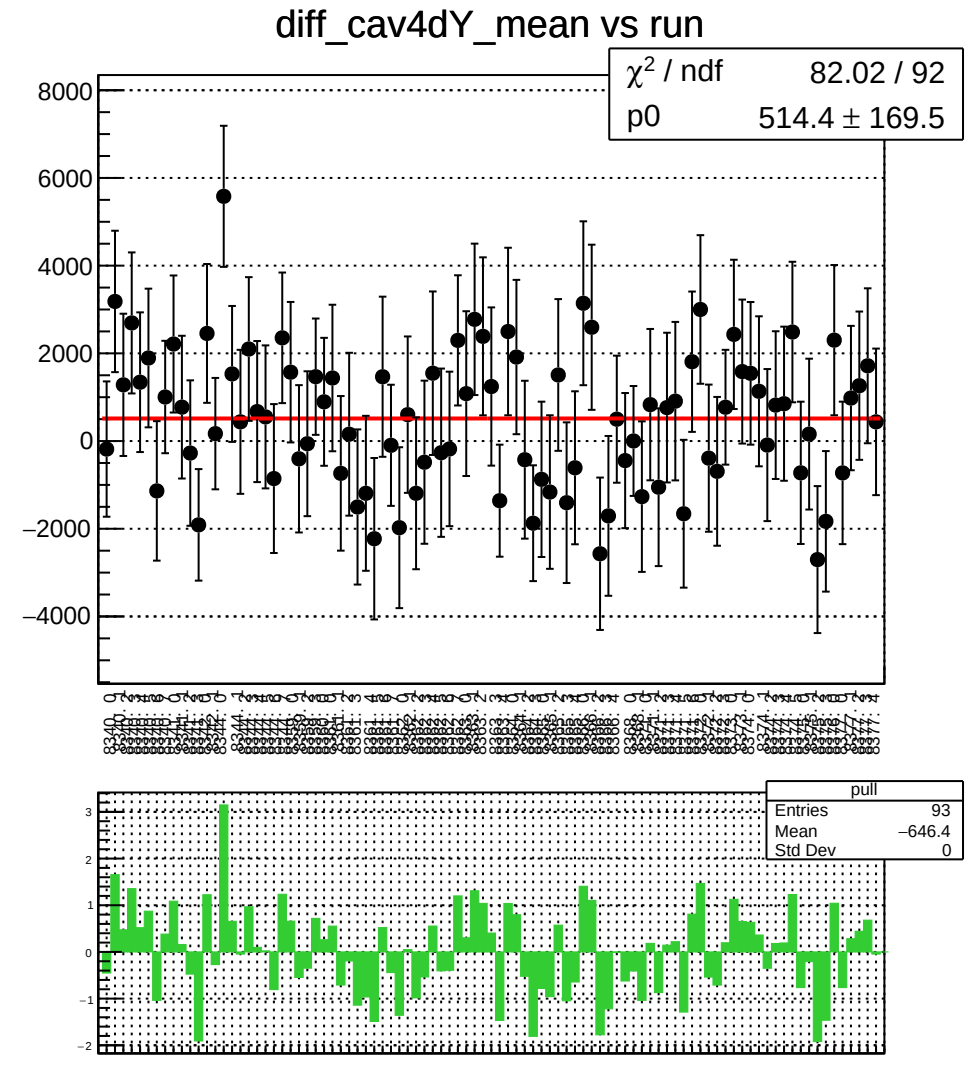

pull1D
Entries 93
Mean 0.005928
Std Dev 0.9349
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

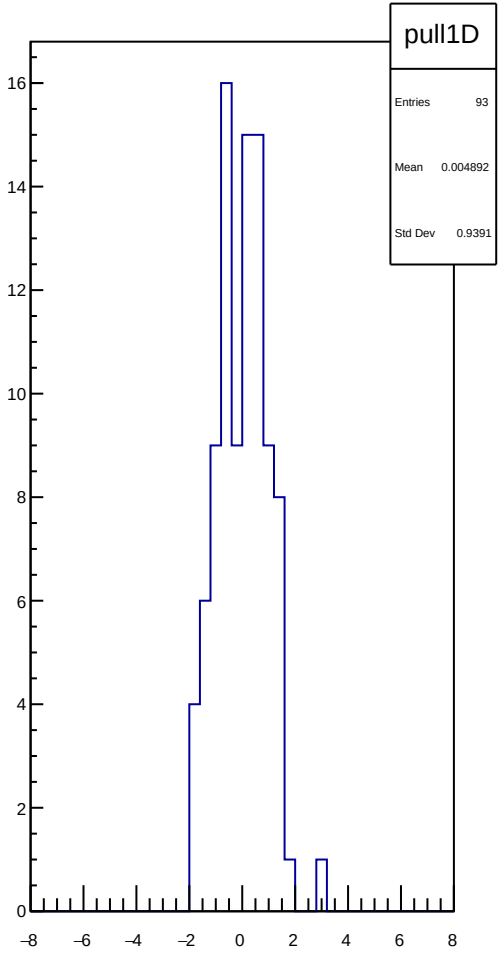

diff_cav4cY_rms vs run
×10^3
χ² / ndf 5279 / 92
p0 1.672e+05 ± 123.6
190
185
180
175
170
165
160
155
150
145

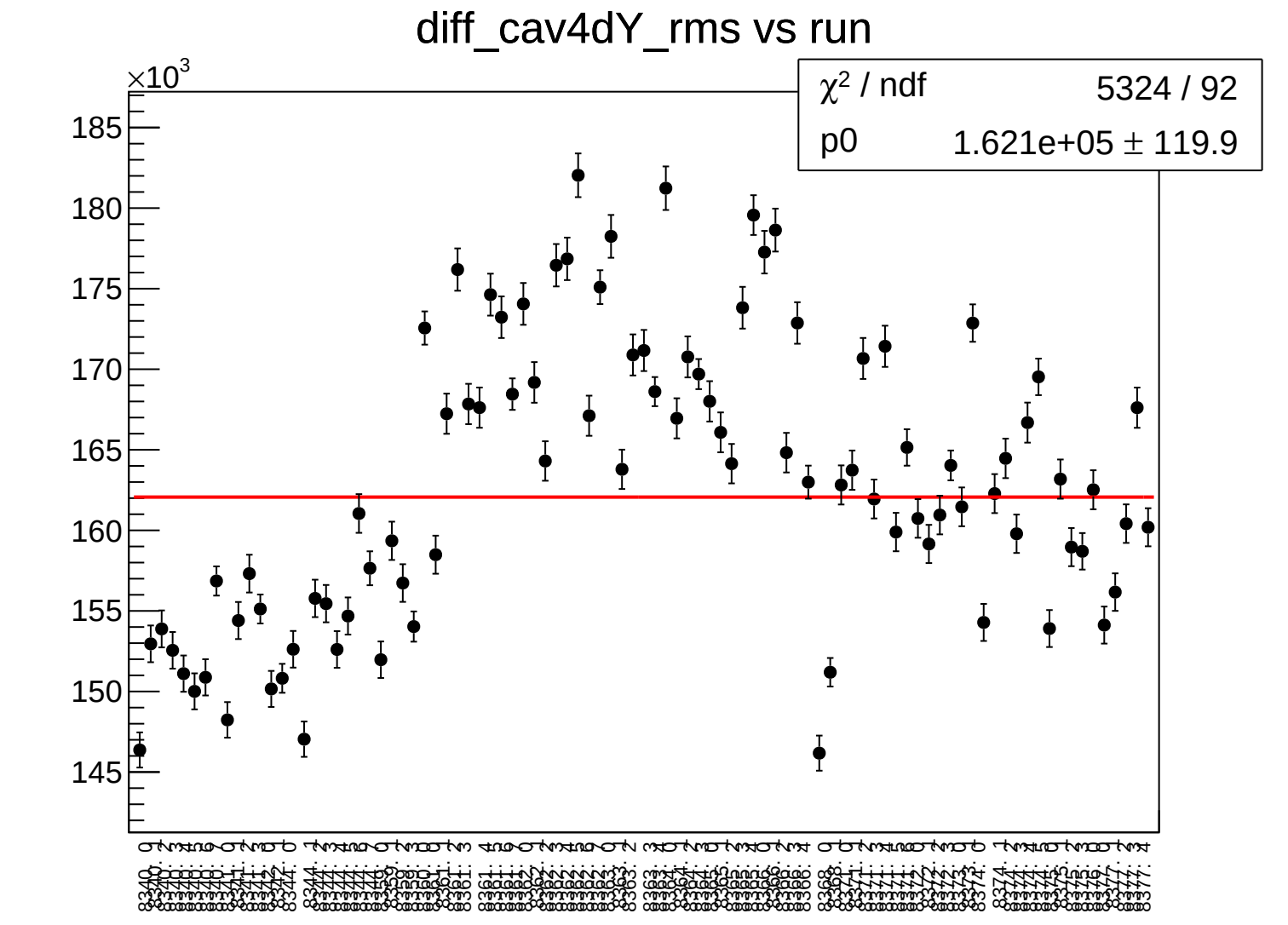

diff_cav4dX_mean vs run
χ² / ndf 113.9 / 92
p0 −897.6 ± 487.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −194
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

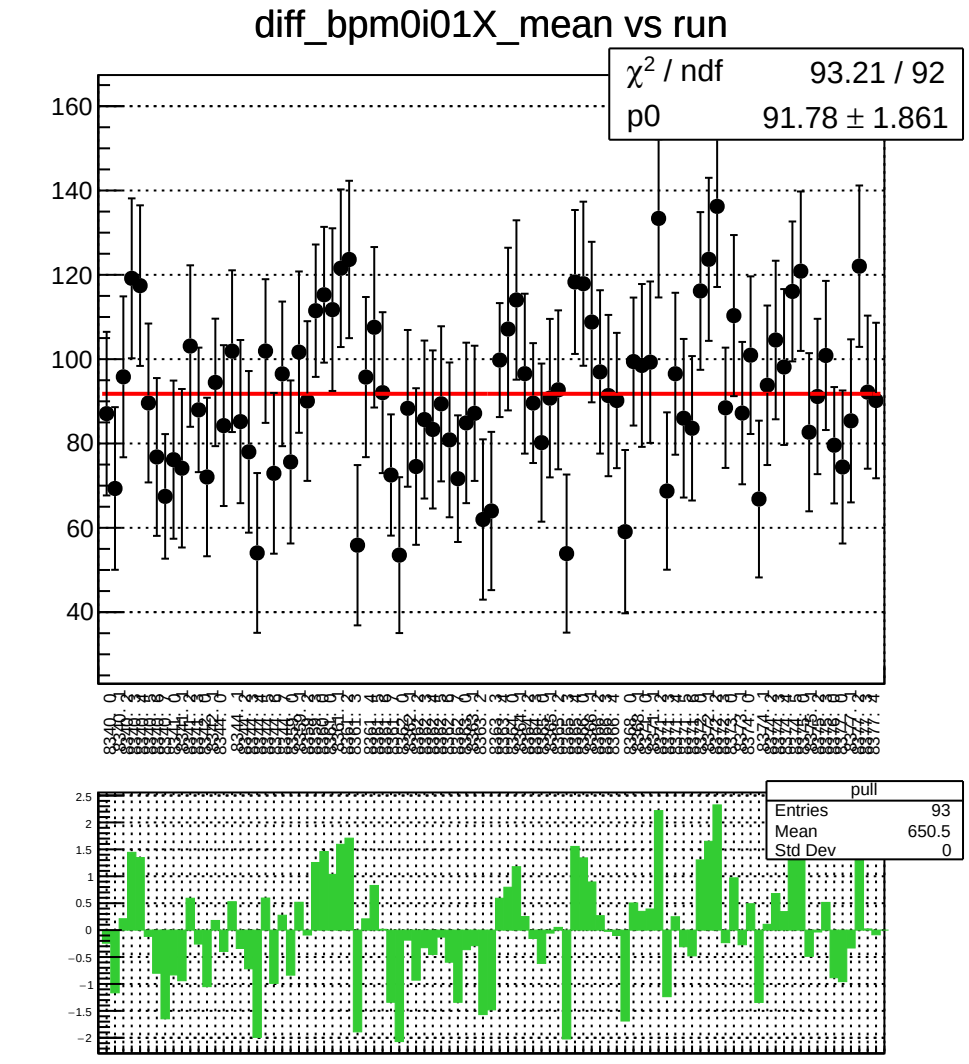

pull1D
Entries 93
Mean −0.02243
Std Dev 1.106
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

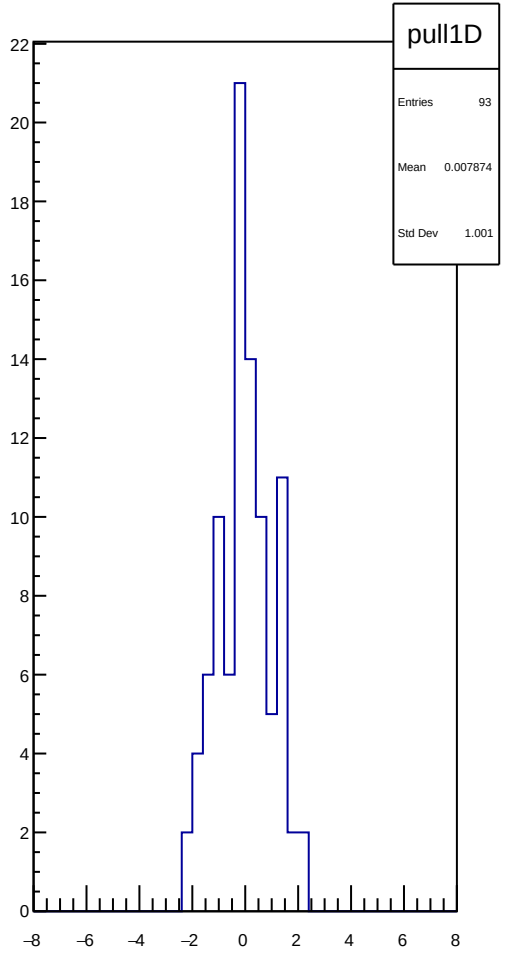

diff_cav4dX_rms vs run
×10^3
520
500
480
460
440
420
χ² / ndf 2586 / 92
p0 4.669e+05 ± 345

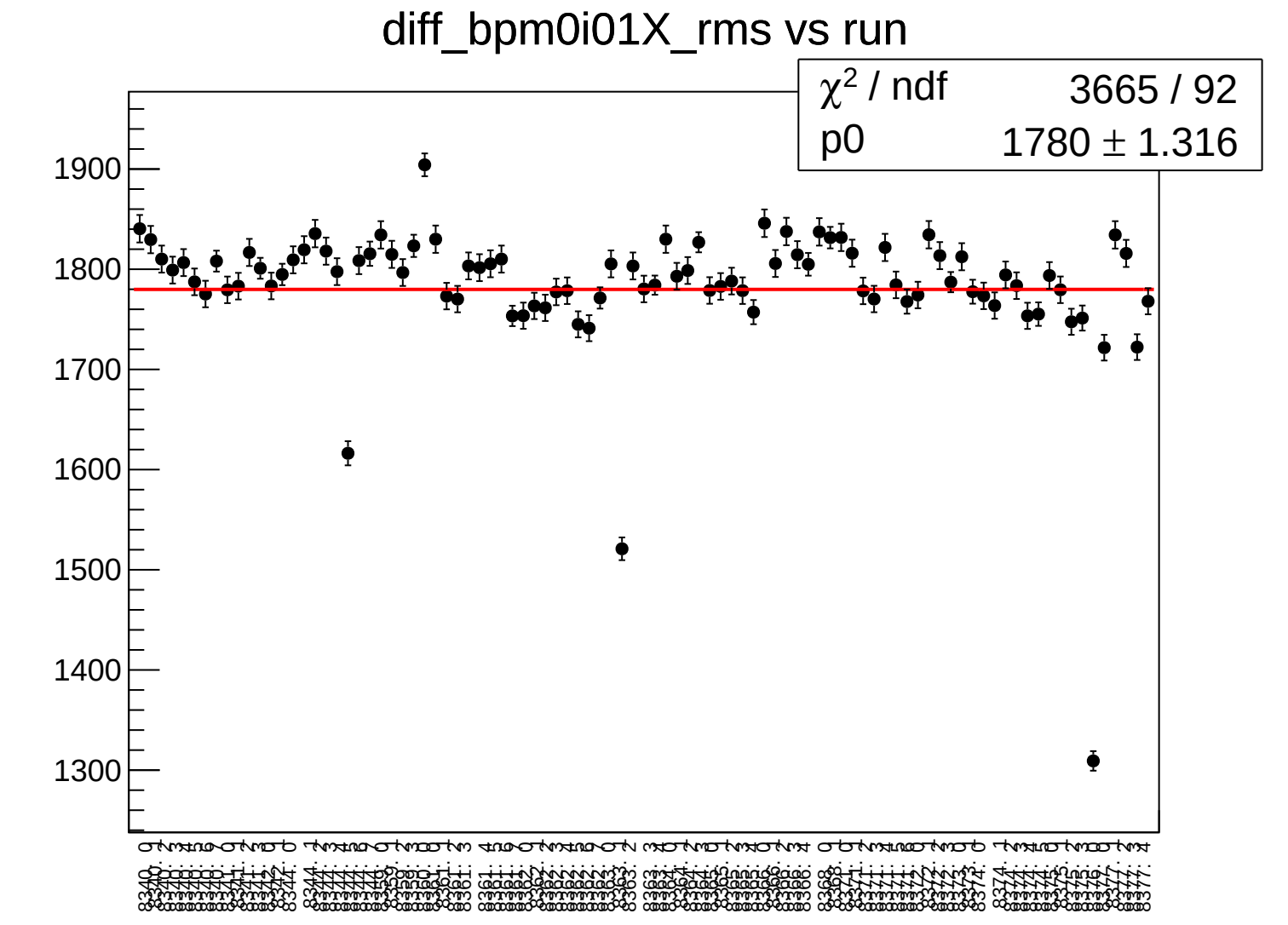

diff_cav4dY_mean vs run
χ² / ndf 82.02 / 92
p0 514.4 ± 169.5
pull
Entries 93
Mean −646.4
Std Dev 0

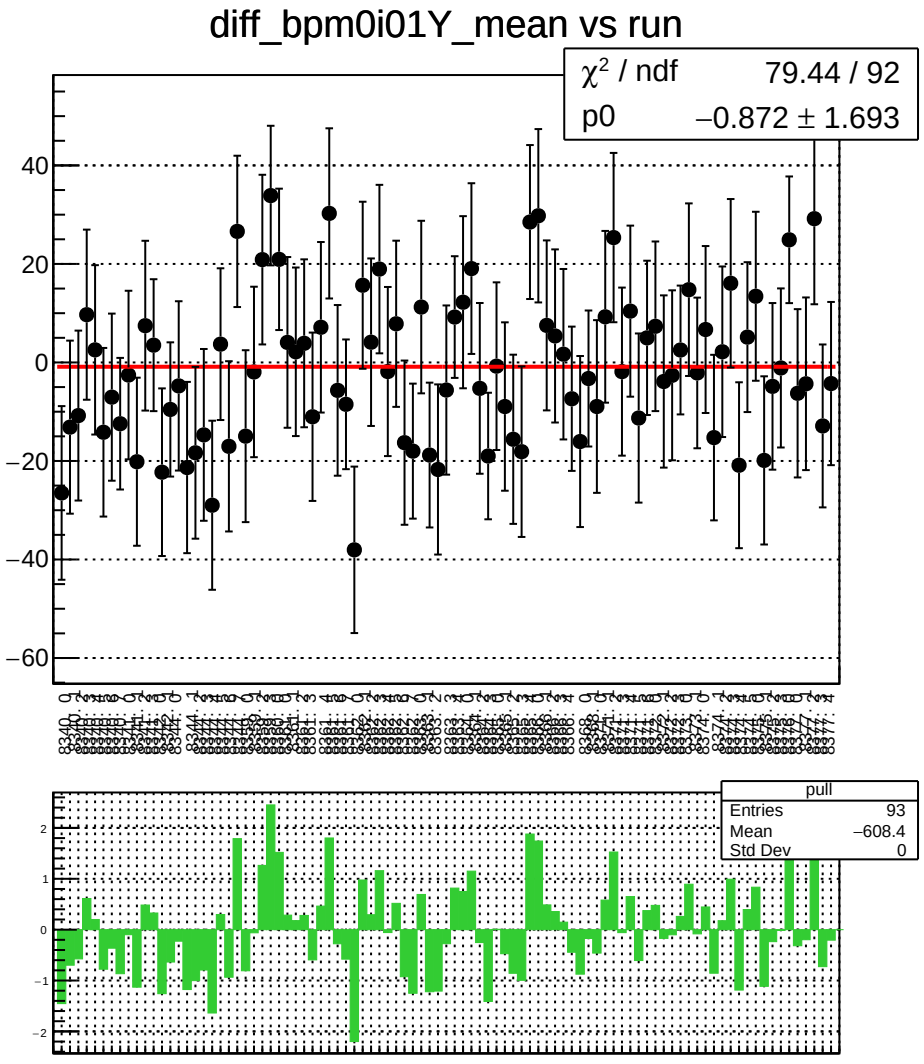

pull1D
Entries 93
Mean 0.004892
Std Dev 0.9391

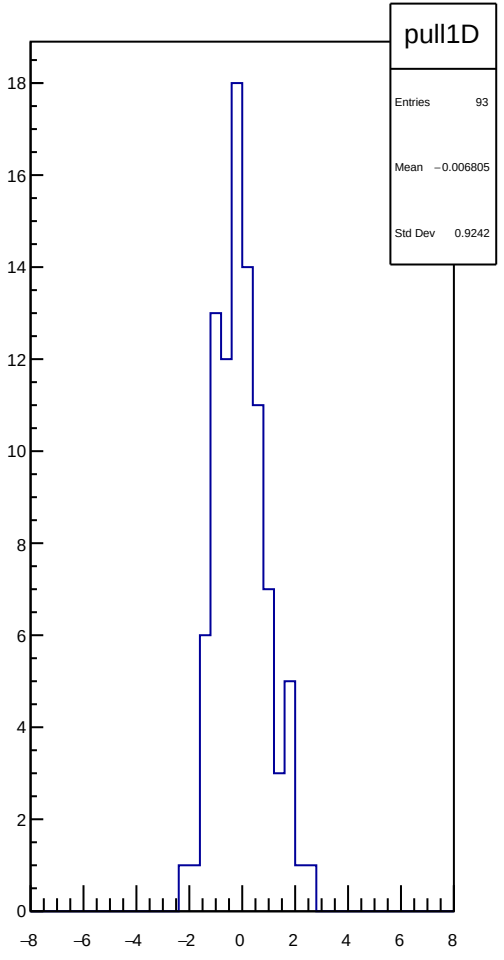

diff_cav4dY_rms vs run
×10^3
185
180
175
170
165
160
155
150
145
χ² / ndf 5324 / 92
p0 1.621e+05 ± 119.9

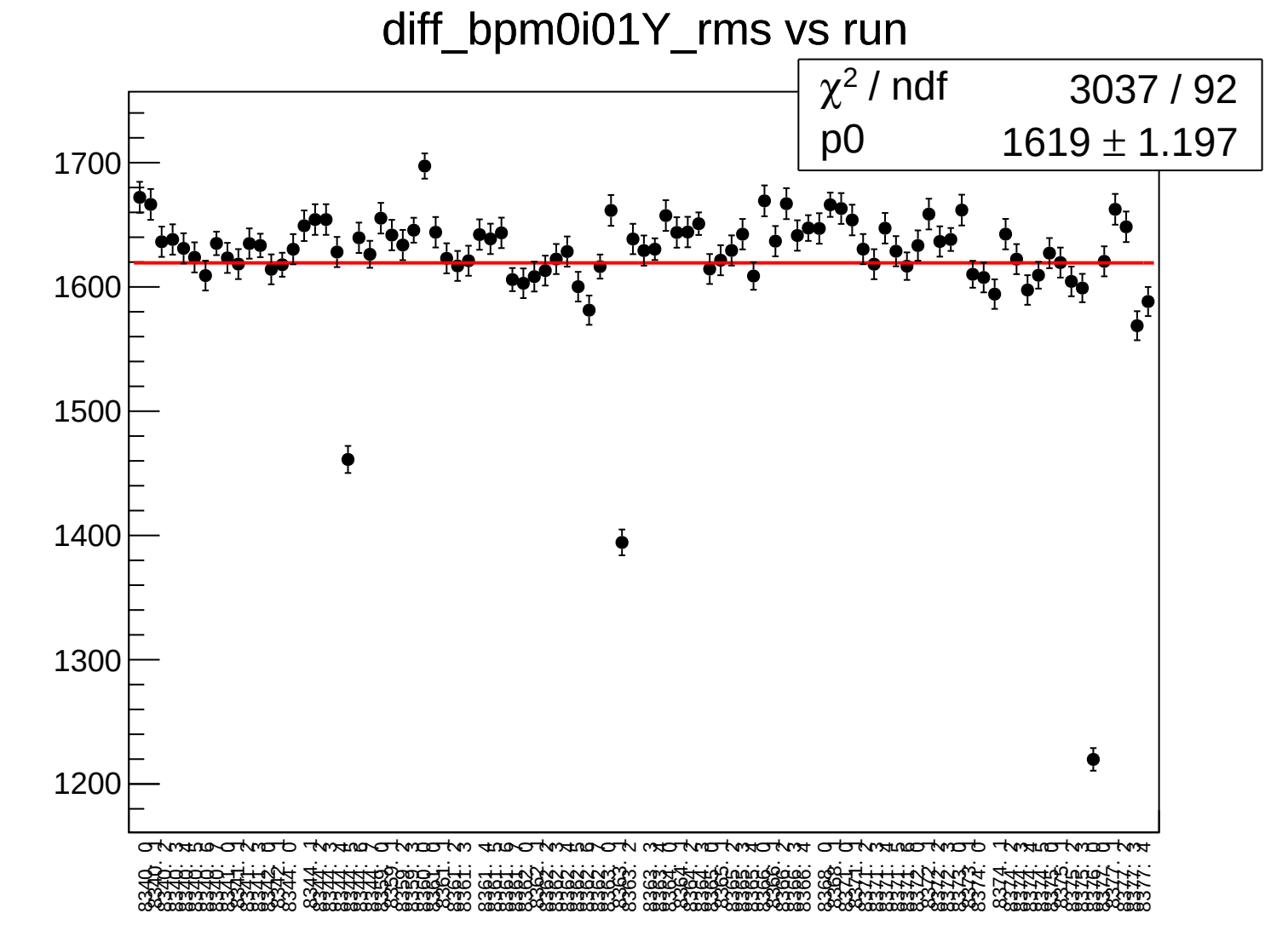

diff_bpm0i01X_mean vs run
χ² / ndf 93.21 / 92
p0 91.78 ± 1.861
160
140
120
100
80
60
40
pull
Entries 93
Mean 650.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

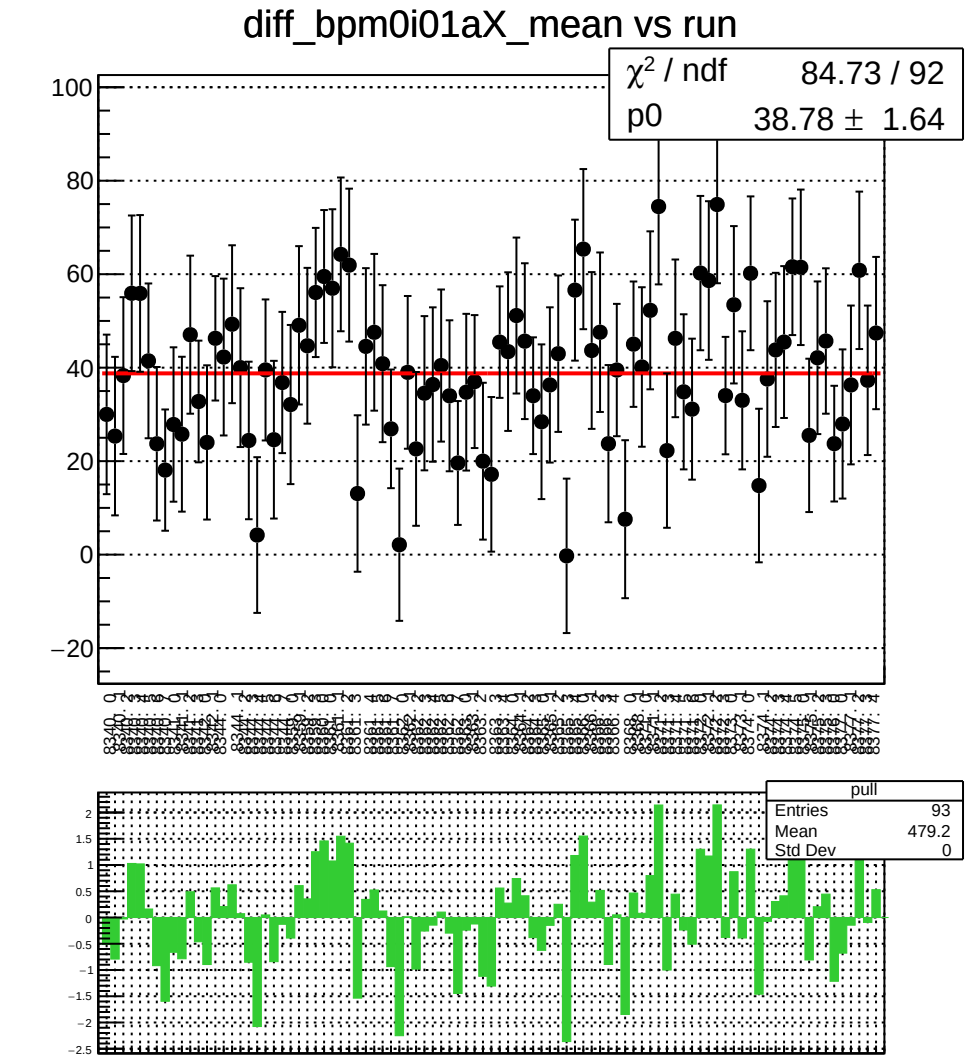

pull1D
Entries 93
Mean 0.007874
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

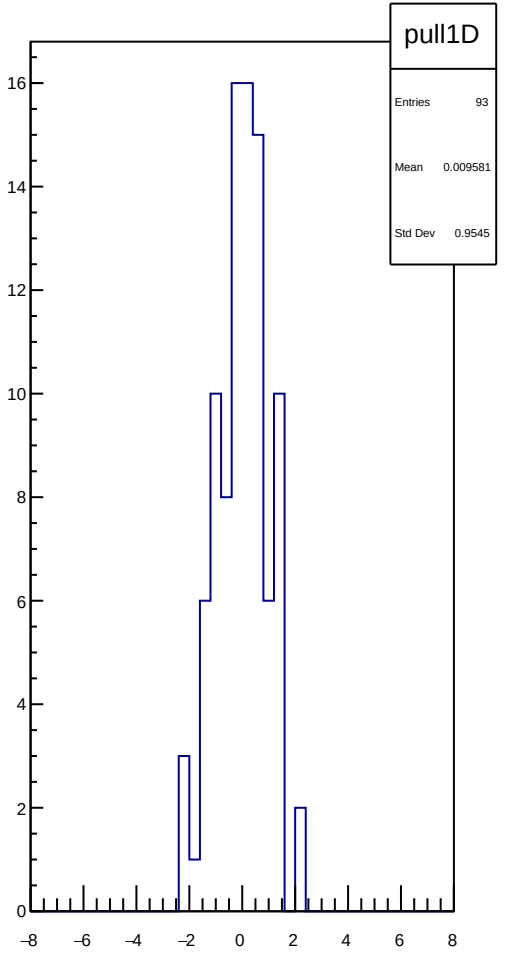

diff_bpm0i01X_rms vs run
χ² / ndf 3665 / 92
p0 1780 ± 1.316
1900
1800
1700
1600
1500
1400
1300

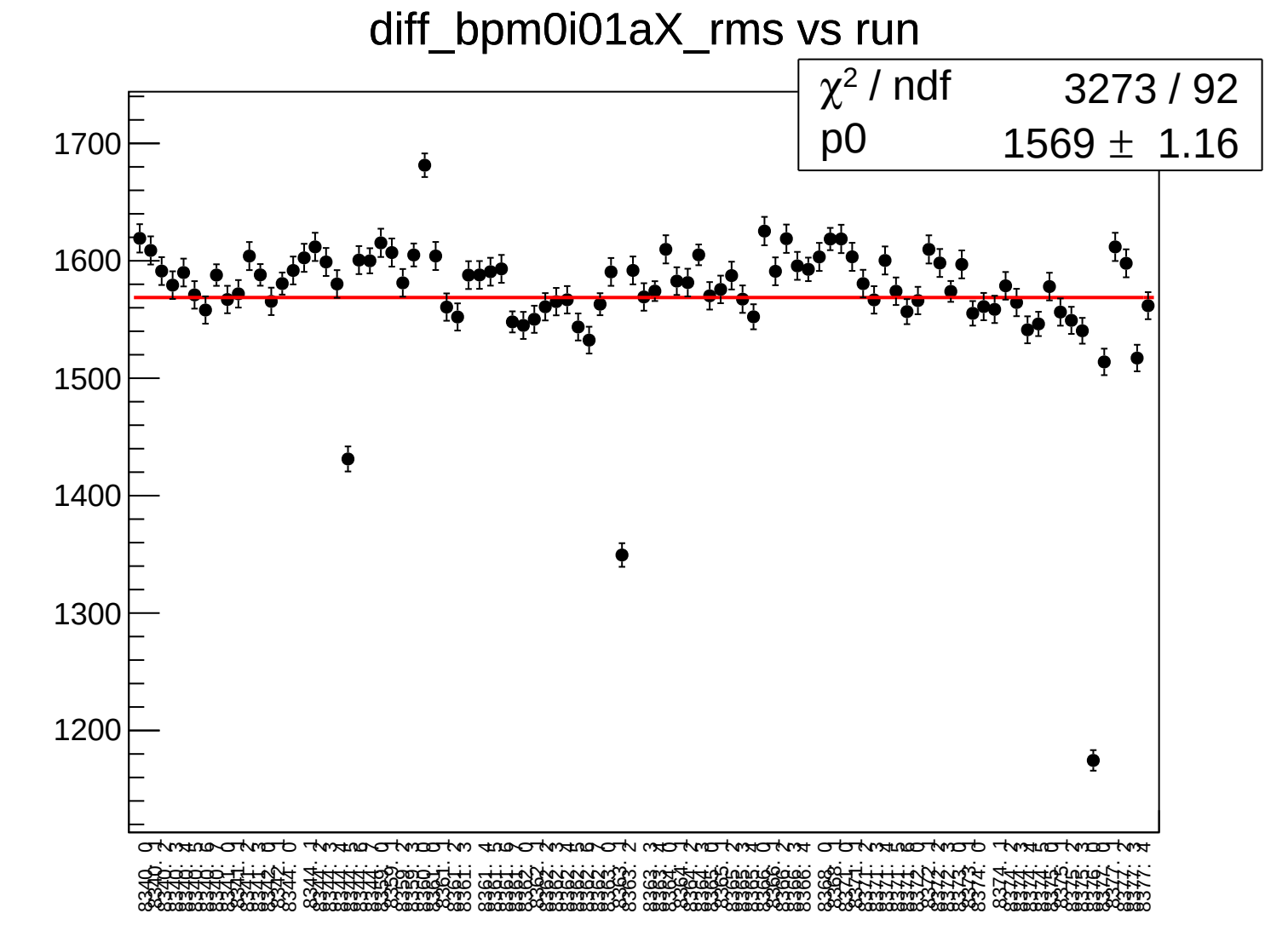

diff_bpm0i01Y_mean vs run
χ² / ndf 79.44 / 92
p0 −0.872 ± 1.693
pull
Entries 93
Mean −608.4
Std Dev 0

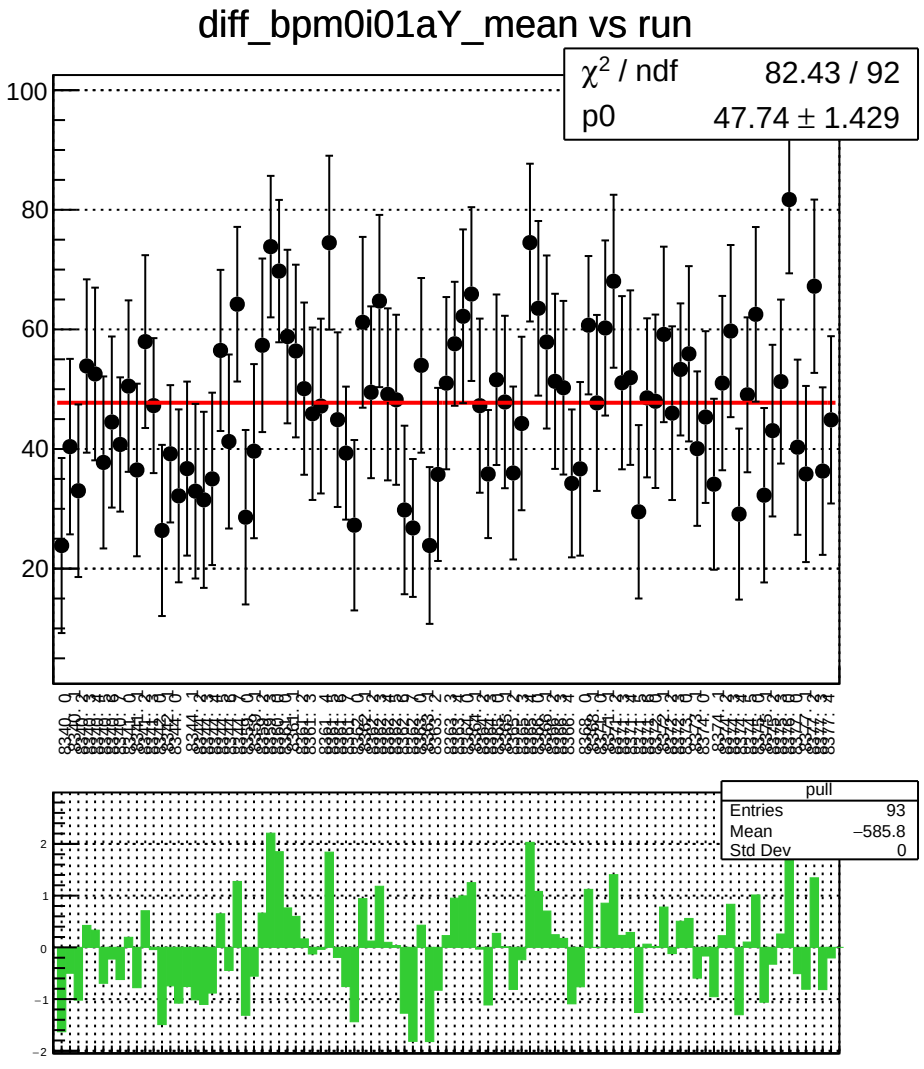

pull1D
Entries 93
Mean −0.006805
Std Dev 0.9242

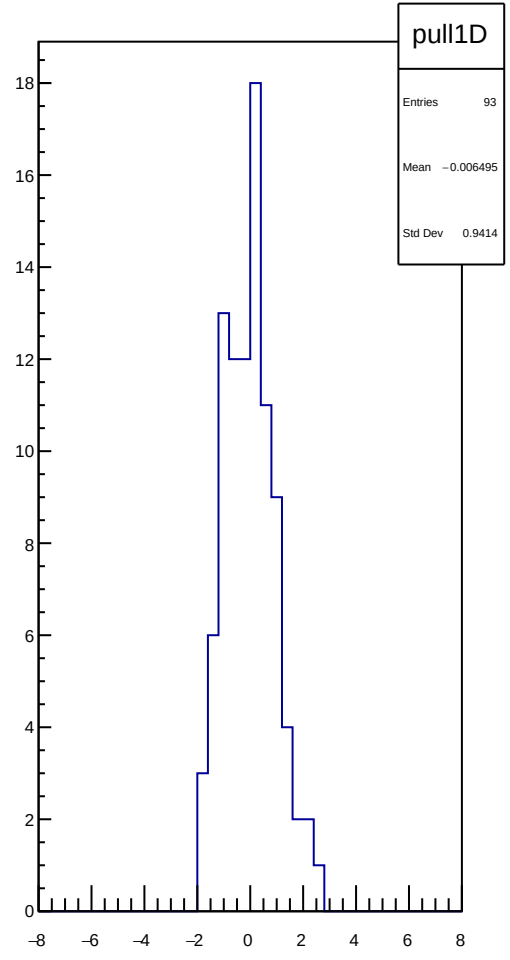

diff_bpm0i01Y_rms vs run
χ² / ndf 3037 / 92
p0 1619 ± 1.197
1700
1600
1500
1400
1300
1200

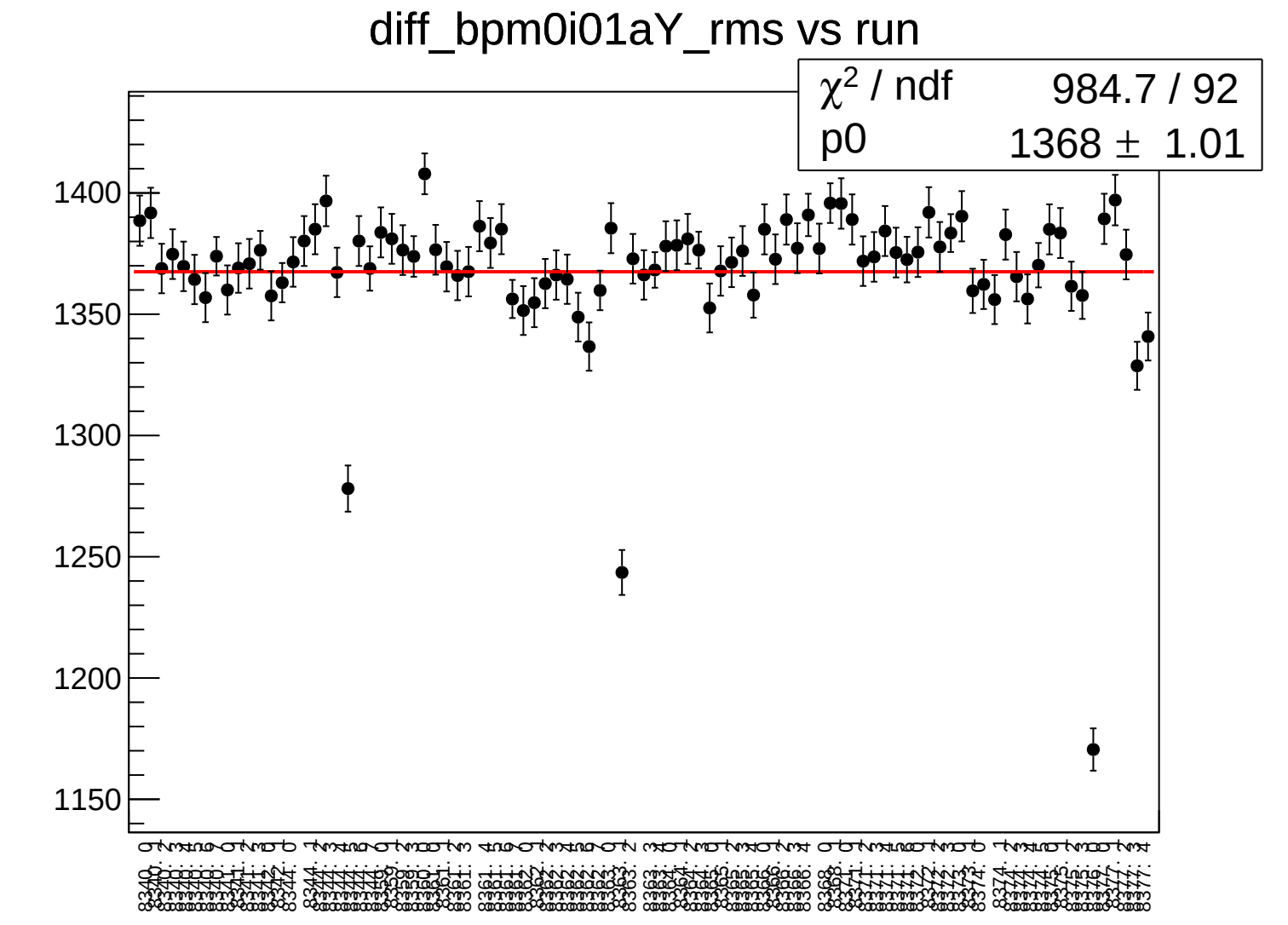

diff_bpm0i01aX_mean vs run
χ² / ndf 84.73 / 92
p0 38.78 ± 1.64
pull
Entries 93
Mean 479.2
Std Dev 0

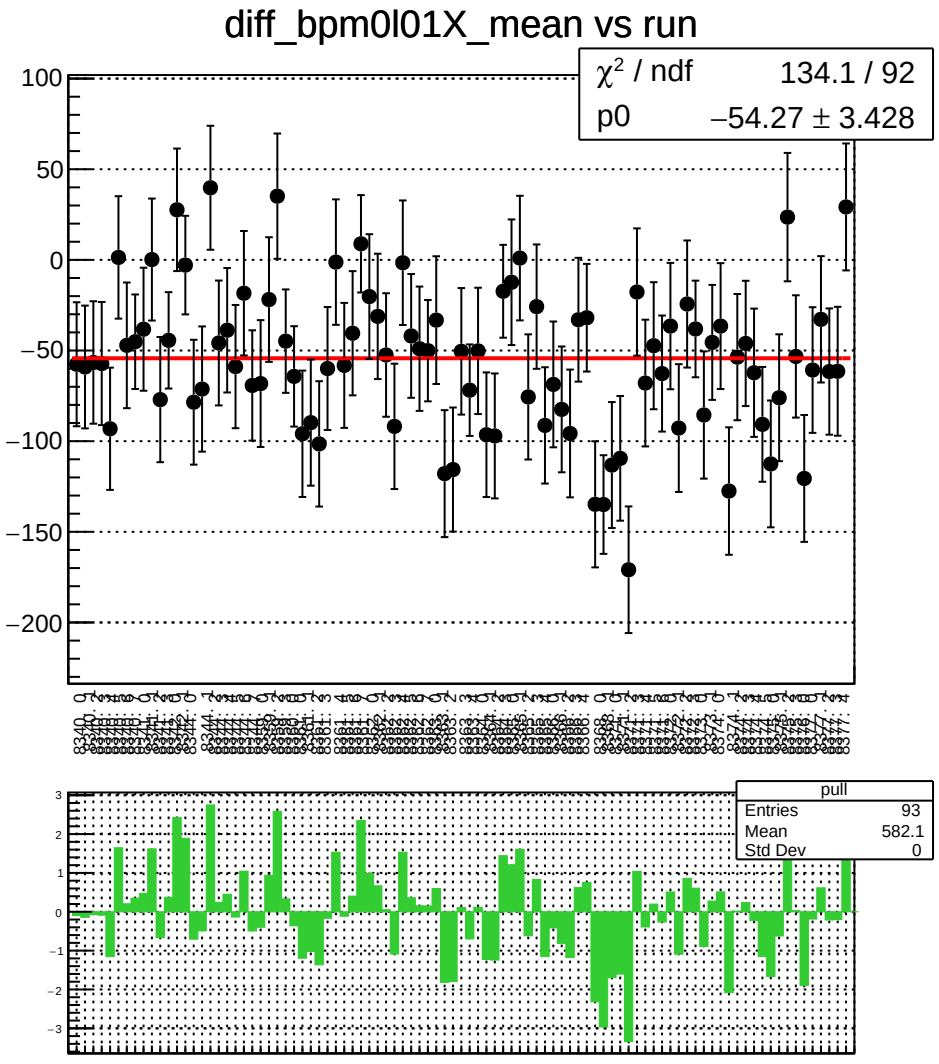

pull1D
Entries 93
Mean 0.009581
Std Dev 0.9545

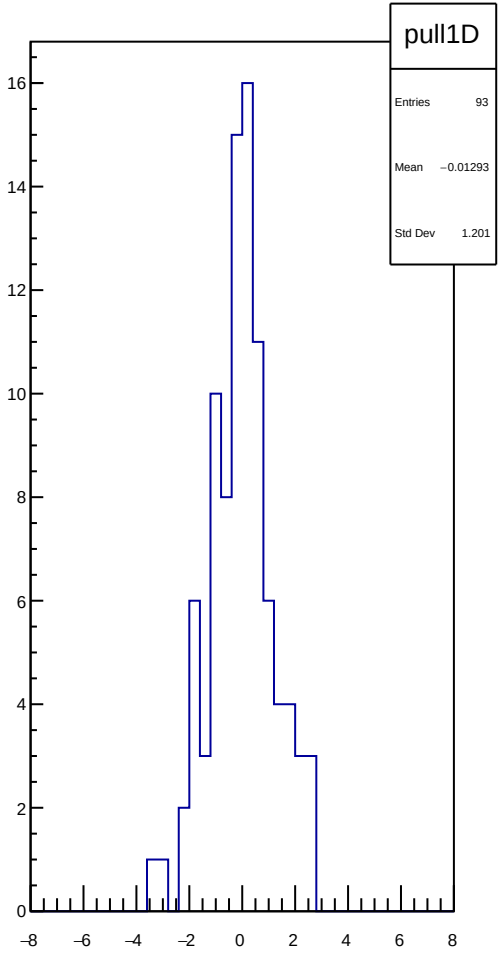

diff_bpm0i01aX_rms vs run
χ² / ndf 3273 / 92
p0 1569 ± 1.16
1700
1600
1500
1400
1300
1200

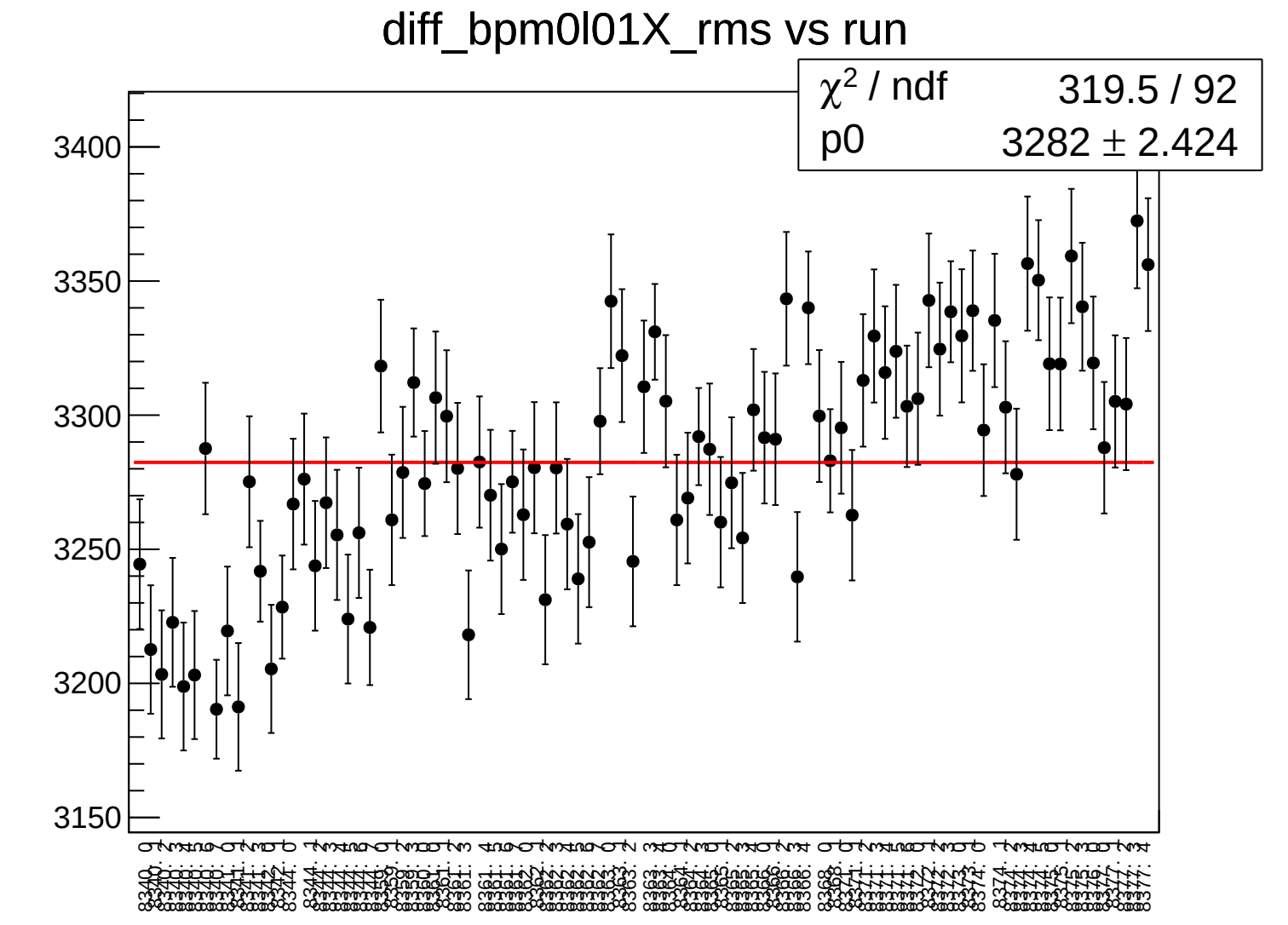

diff_bpm0i01aY_mean vs run
χ^2 / ndf 82.43 / 92
p0 47.74 ± 1.429
pull
Entries 93
Mean −585.8
Std Dev 0

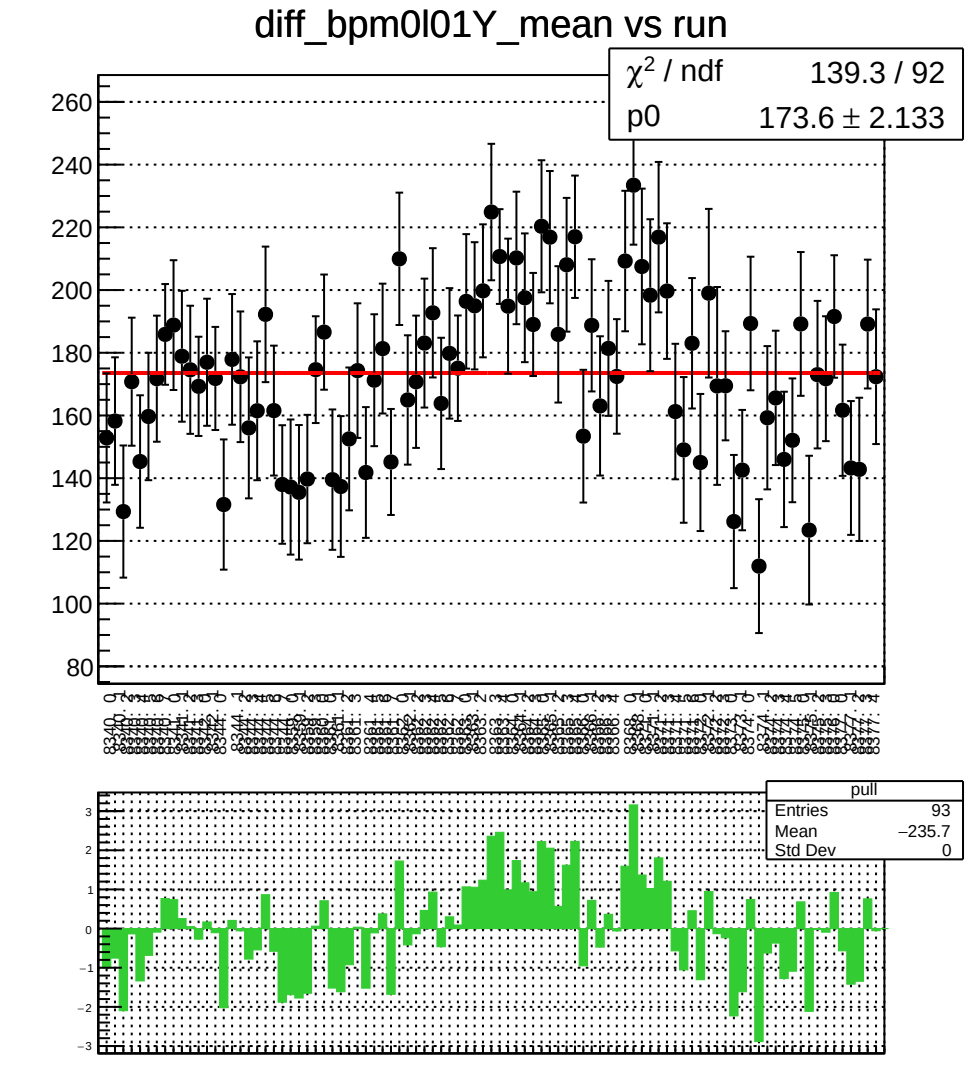

pull1D
Entries 93
Mean −0.006495
Std Dev 0.9414

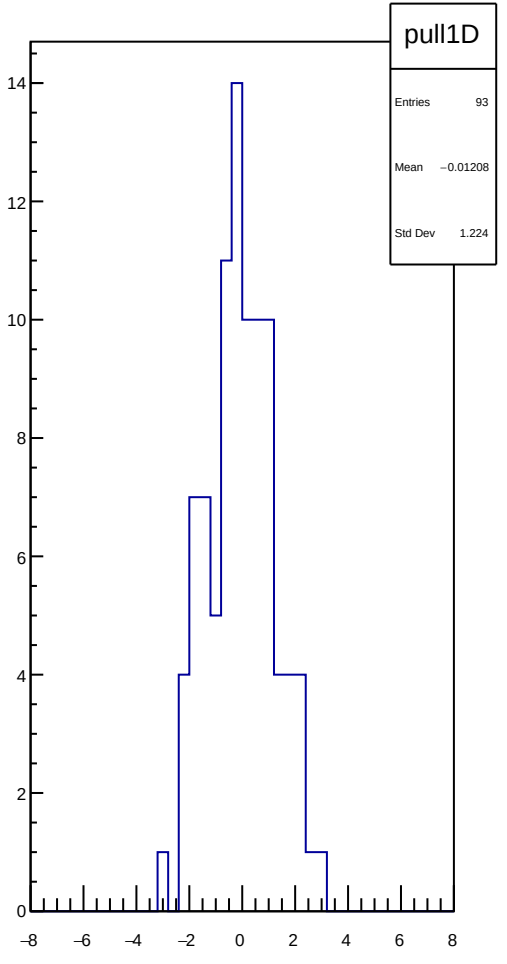

diff_bpm0i01aY_rms vs run
χ² / ndf 984.7 / 92
p0 1368 ± 1.01
1400
1350
1300
1250
1200
1150

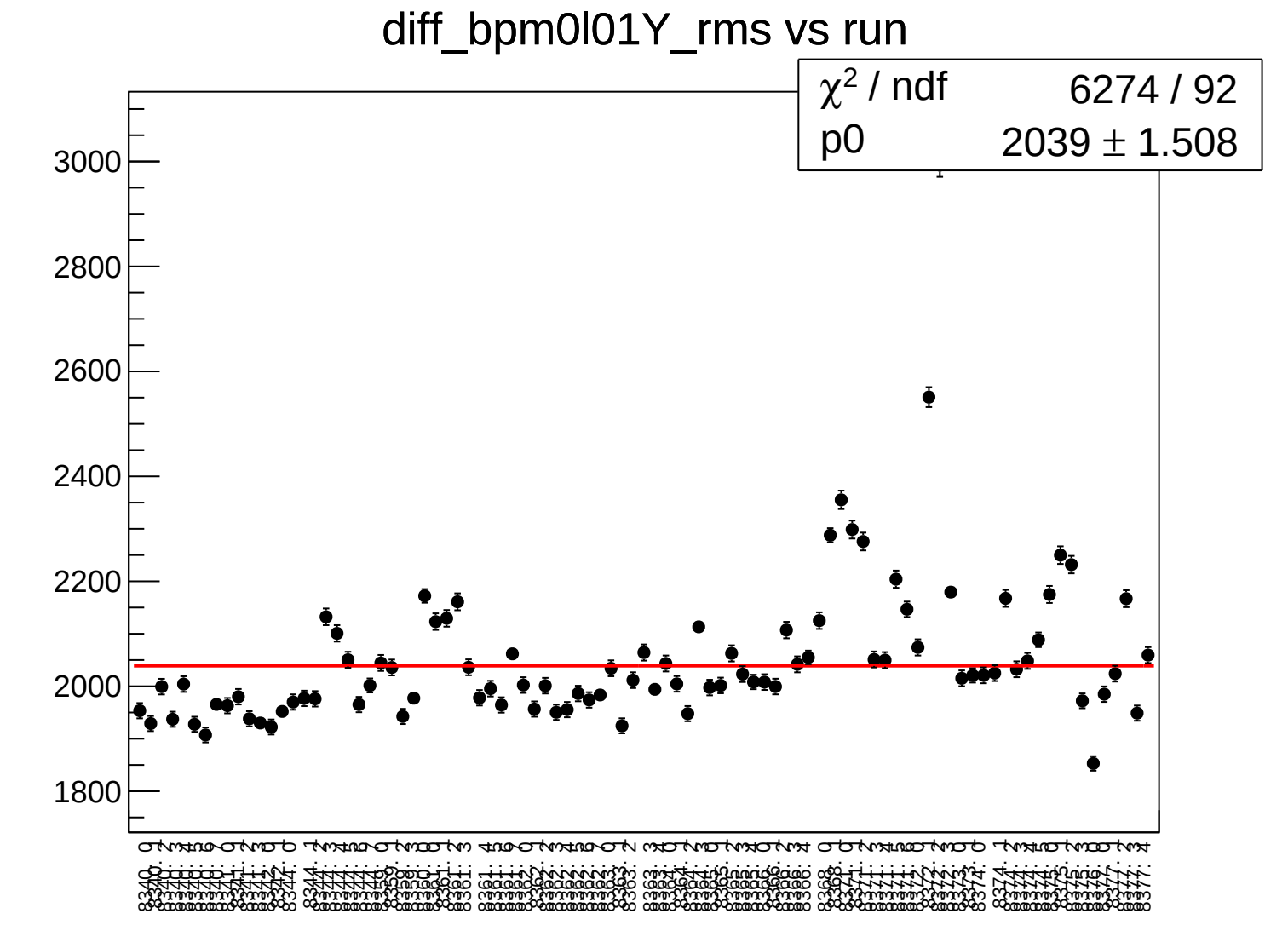

diff_bpm0l01X_mean vs run
χ² / ndf 134.1 / 92
p0 −54.27 ± 3.428
pull
Entries 93
Mean 582.1
Std Dev 0

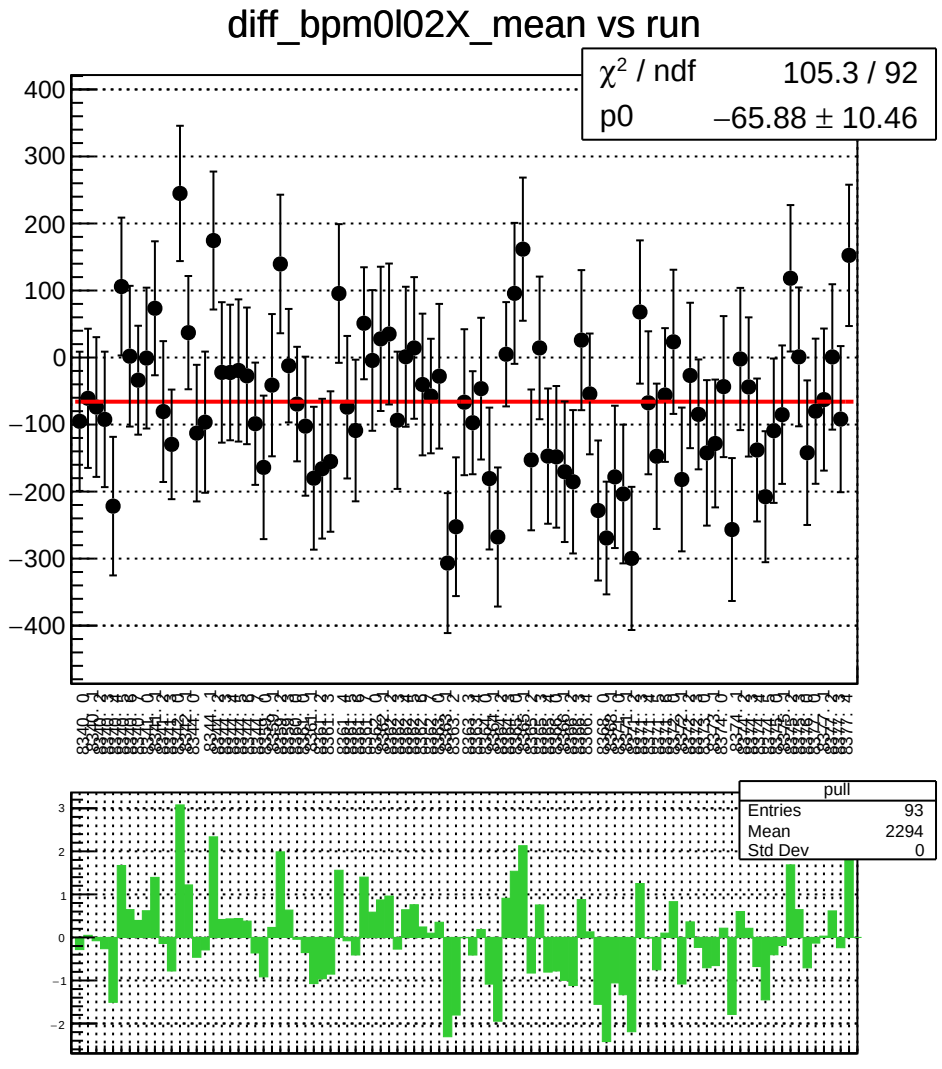

pull1D
Entries 93
Mean −0.01293
Std Dev 1.201

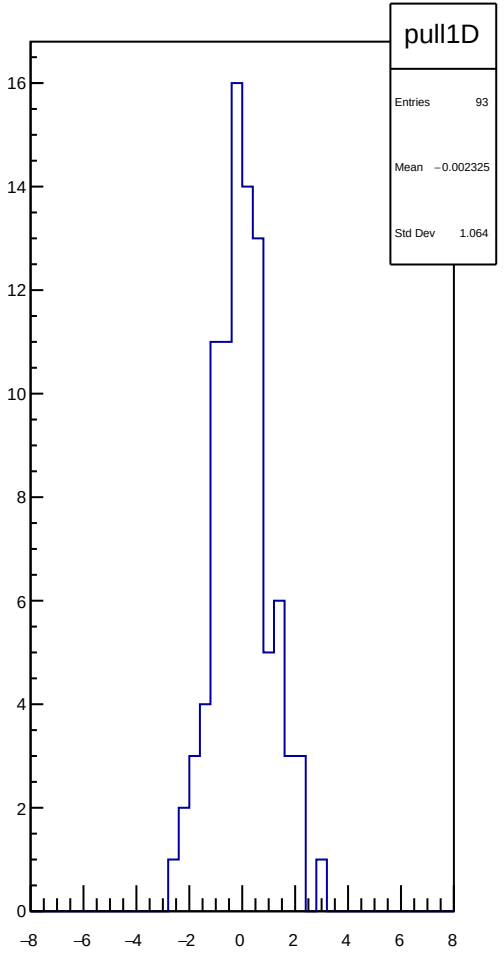

diff_bpm0l01X_rms vs run
χ² / ndf 319.5 / 92
p0 3282 ± 2.424
3400
3350
3300
3250
3200
3150

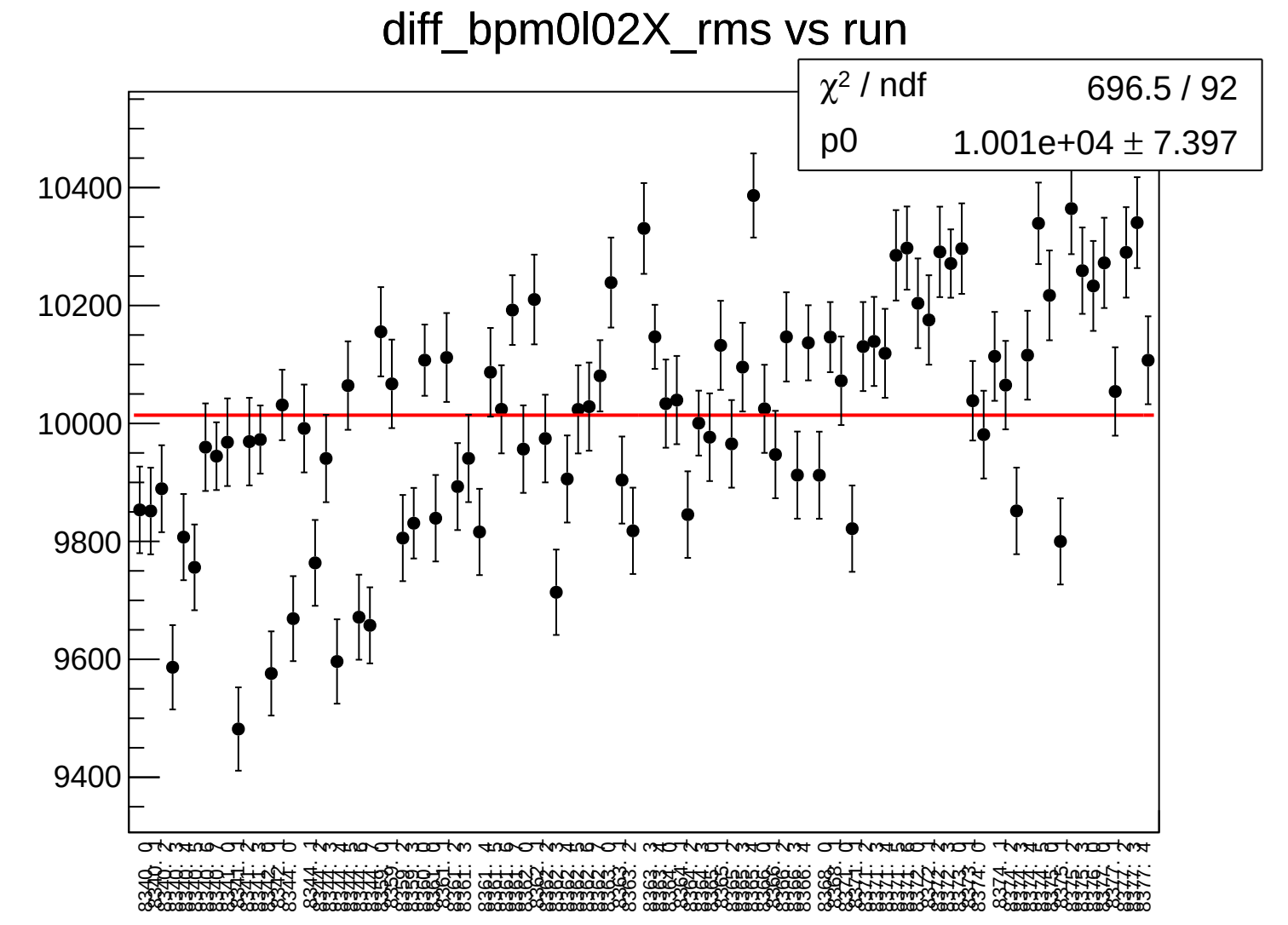

diff_bpm0l01Y_mean vs run
χ^2 / ndf 139.3 / 92
p0 173.6 ± 2.133
260
240
220
200
180
160
140
120
100
80
pull
Entries 93
Mean −235.7
Std Dev 0
3
2
1
0
−1
−2
−3

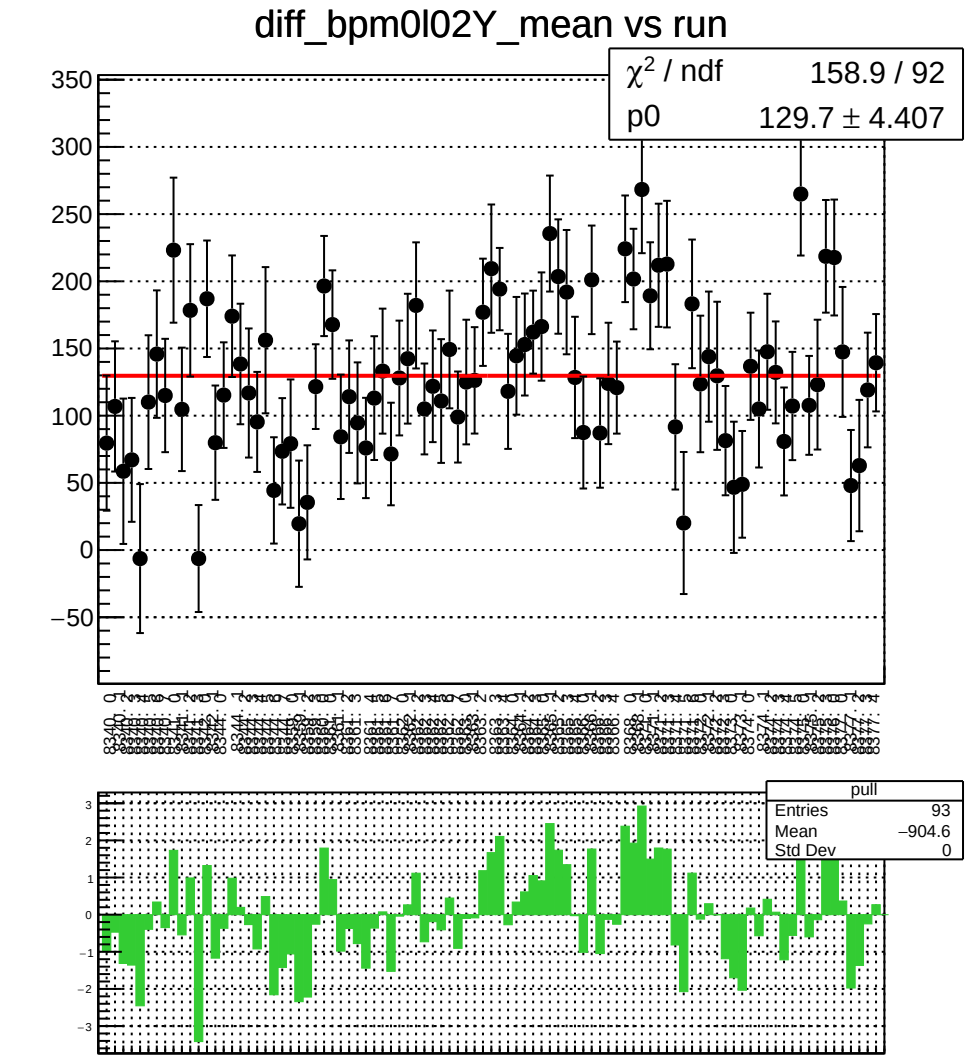

pull1D
Entries 93
Mean −0.01208
Std Dev 1.224
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

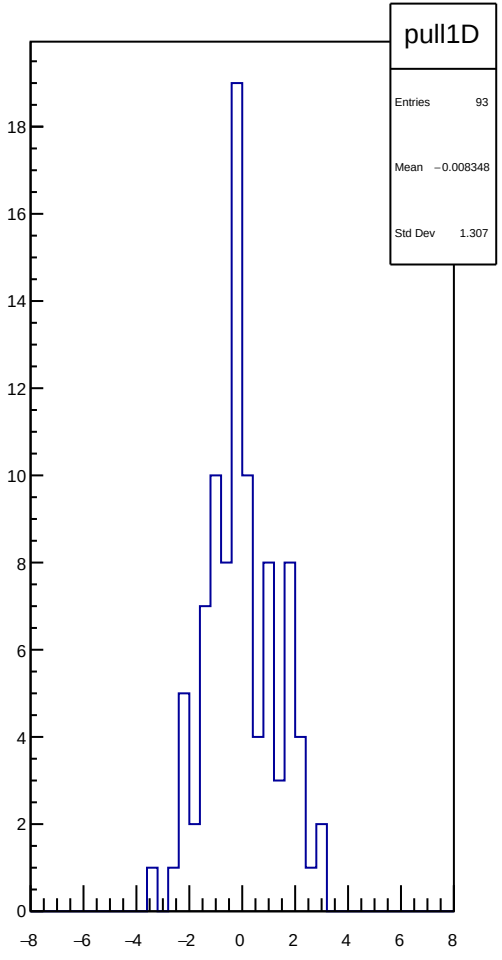

diff_bpm0l01Y_rms vs run
χ² / ndf 6274 / 92
p0 2039 ± 1.508
3000
2800
2600
2400
2200
2000
1800

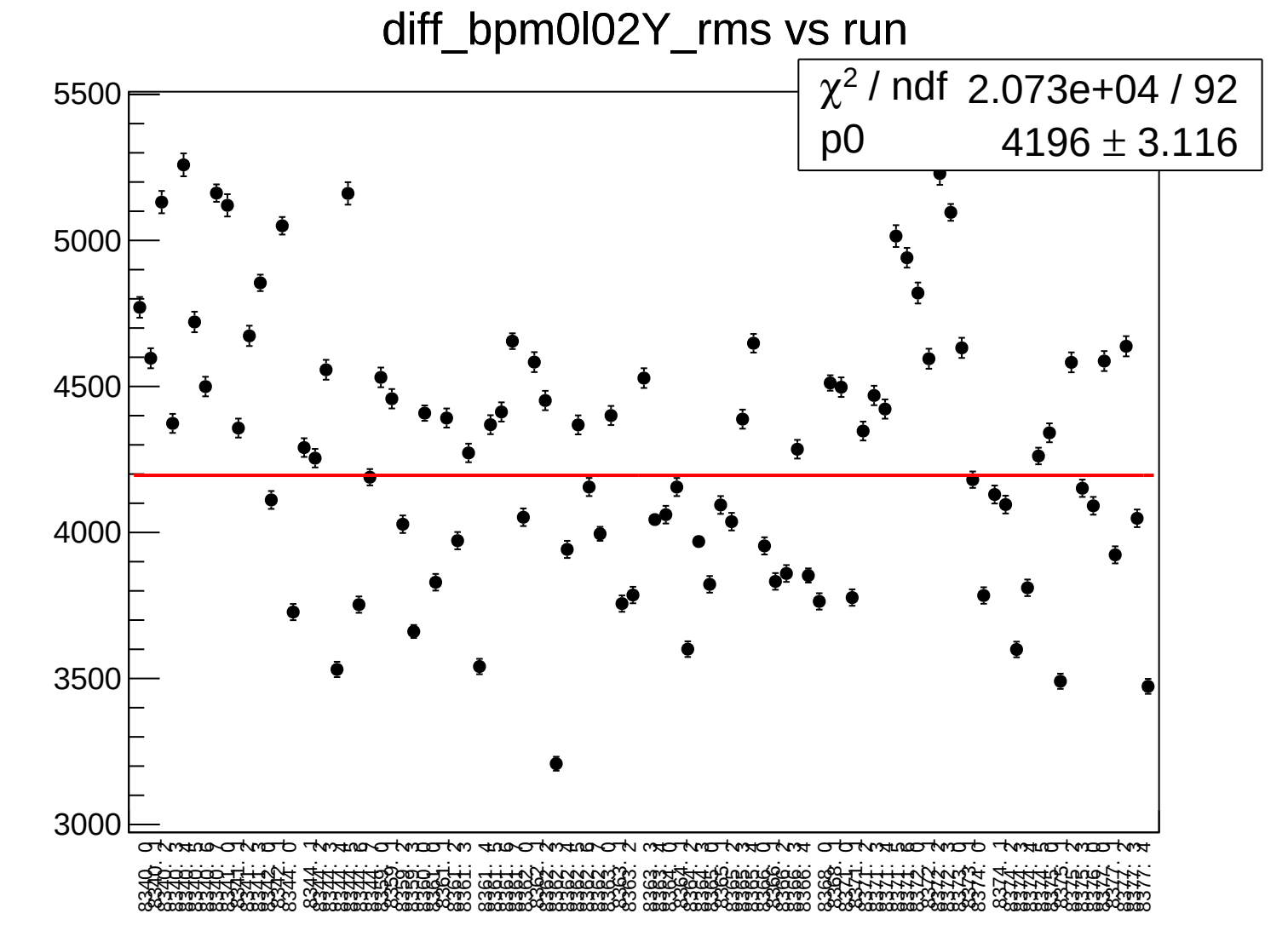

diff_bpm0l02X_mean vs run
χ^2 / ndf 105.3 / 92
p0 −65.88 ± 10.46
pull
Entries 93
Mean 2294
Std Dev 0

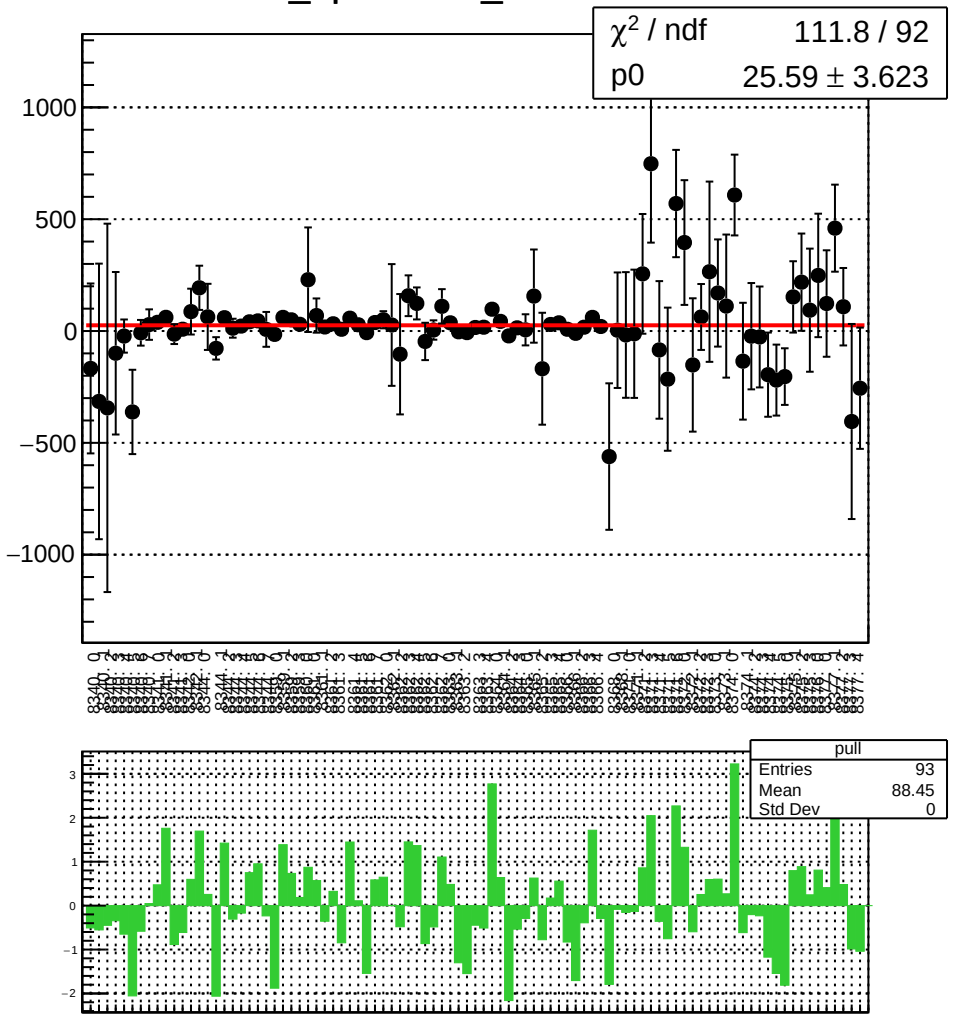

pull1D
Entries 93
Mean −0.002325
Std Dev 1.064

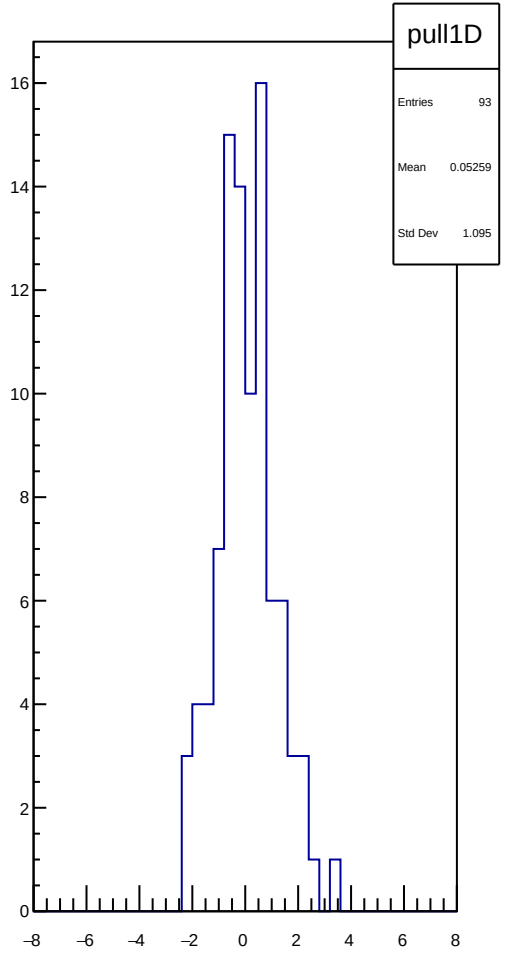

diff_bpm0l02X_rms vs run
χ² / ndf 696.5 / 92
p0 1.001e+04 ± 7.397
10400
10200
10000
9800
9600
9400

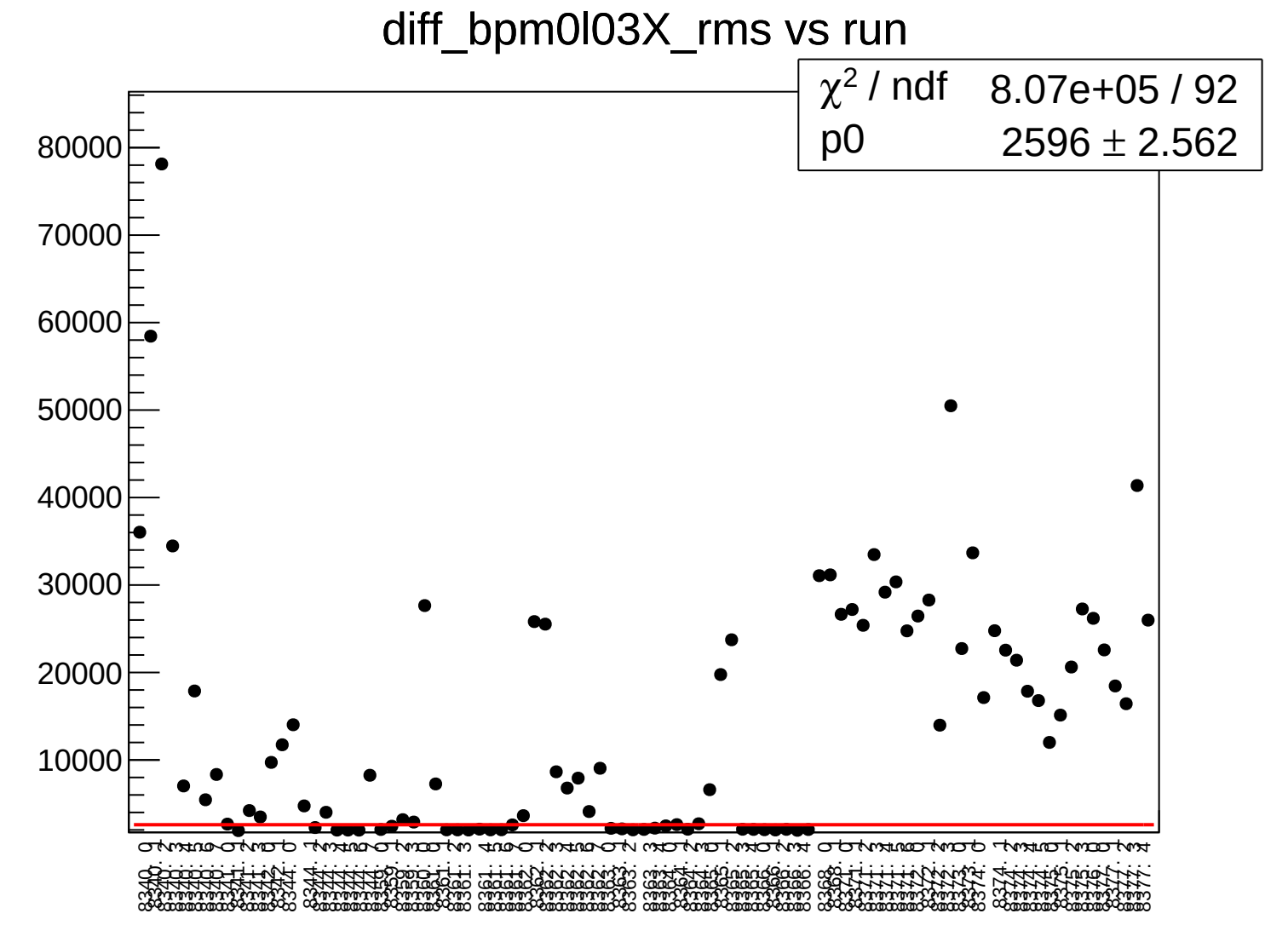

diff_bpm0l02Y_mean vs run
χ^2 / ndf 158.9 / 92
p0 129.7 ± 4.407
pull
Entries 93
Mean −904.6
Std Dev 0

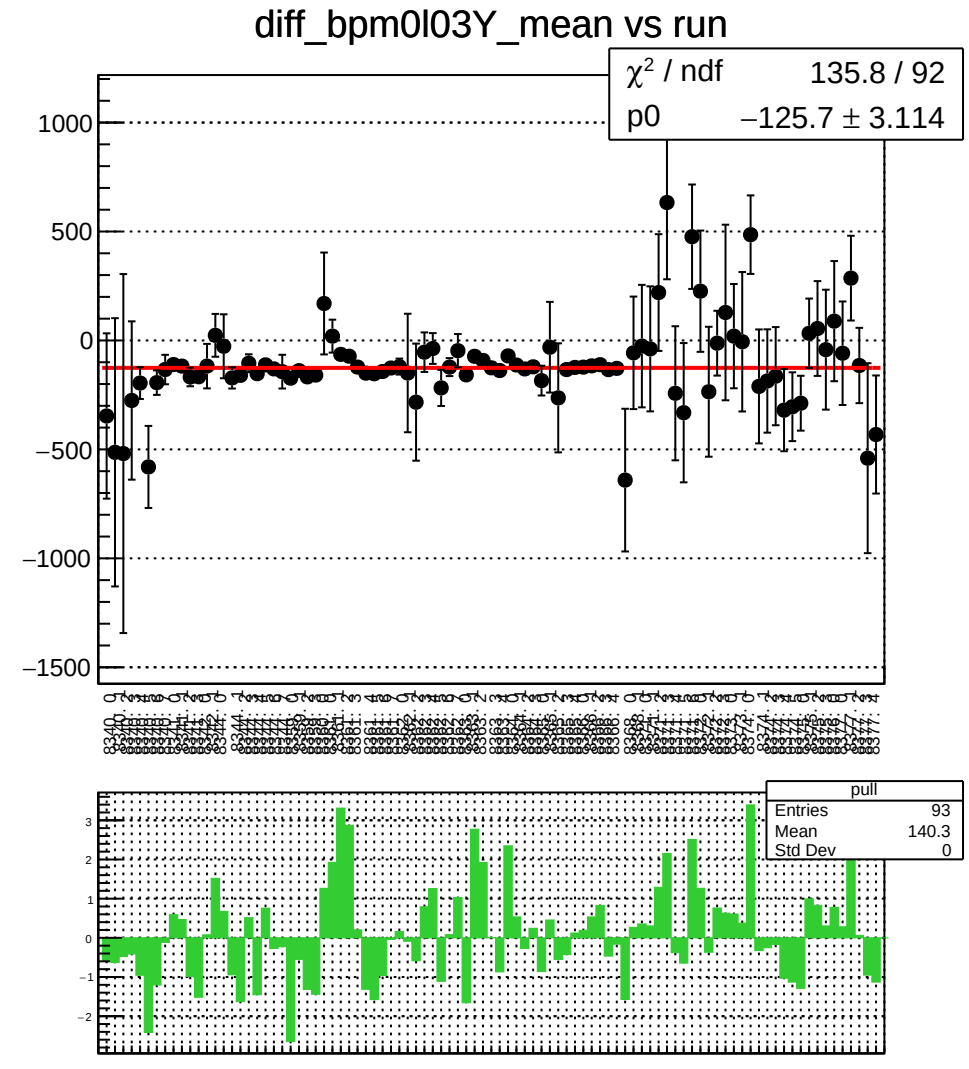

pull1D
Entries 93
Mean −0.008348
Std Dev 1.307

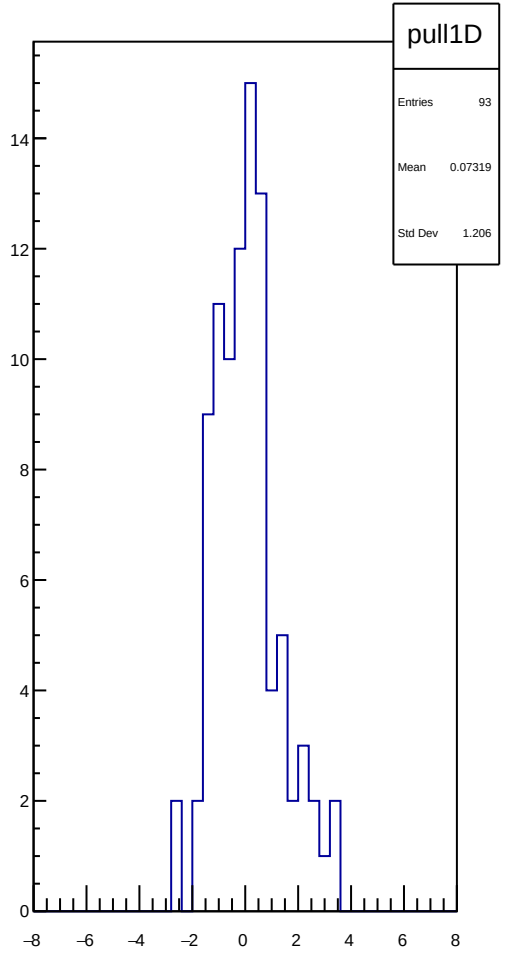

diff_bpm0l02Y_rms vs run
χ² / ndf 2.073e+04 / 92
p0 4196 ± 3.116
5500
5000
4500
4000
3500
3000

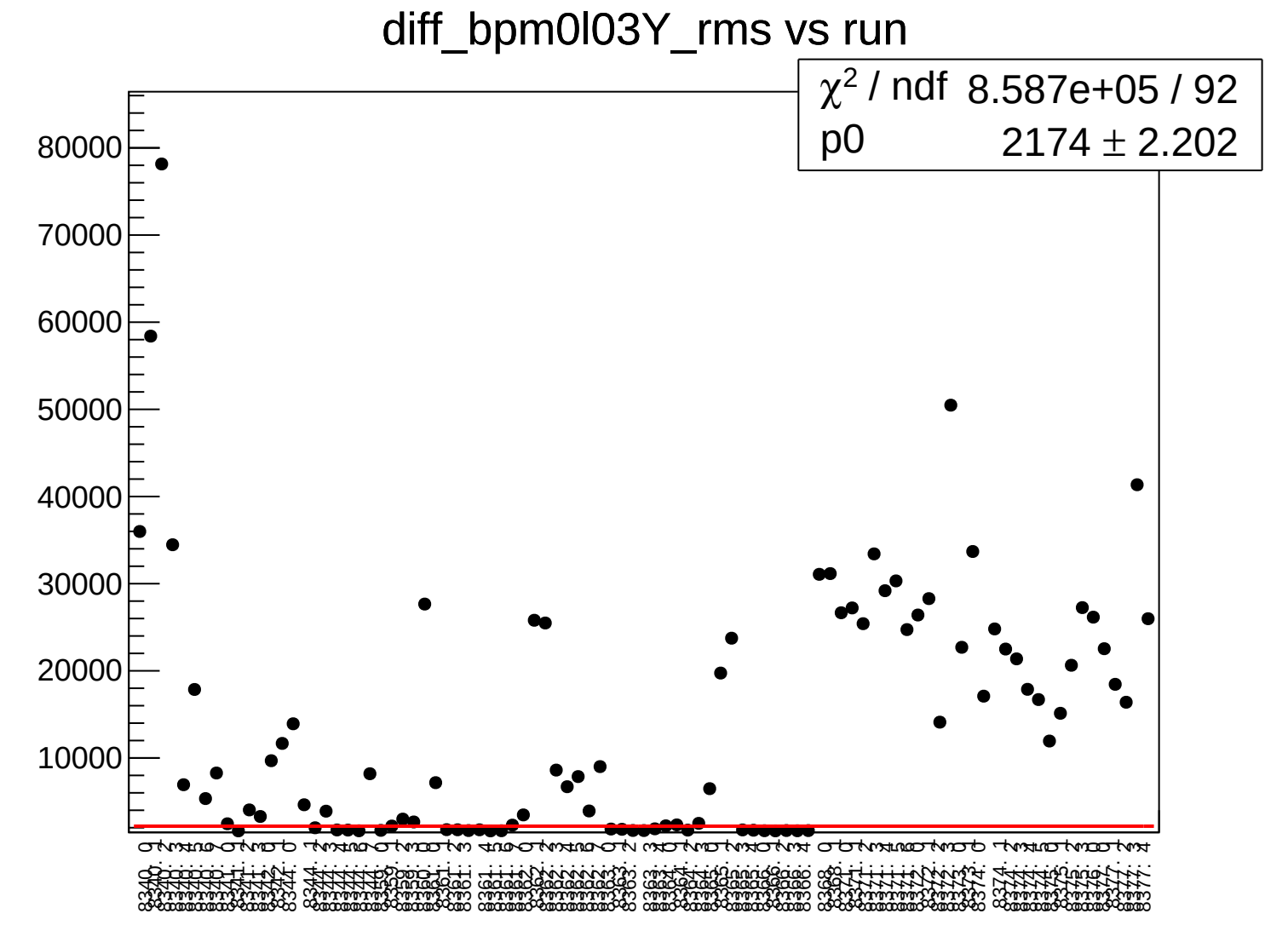

diff_bpm0l03X_mean vs run
χ^2 / ndf 111.8 / 92
p0 25.59 ± 3.623
1000
500
0
−500
−1000
pull
Entries 93
Mean 88.45
Std Dev 0
3
2
1
0
−1
−2

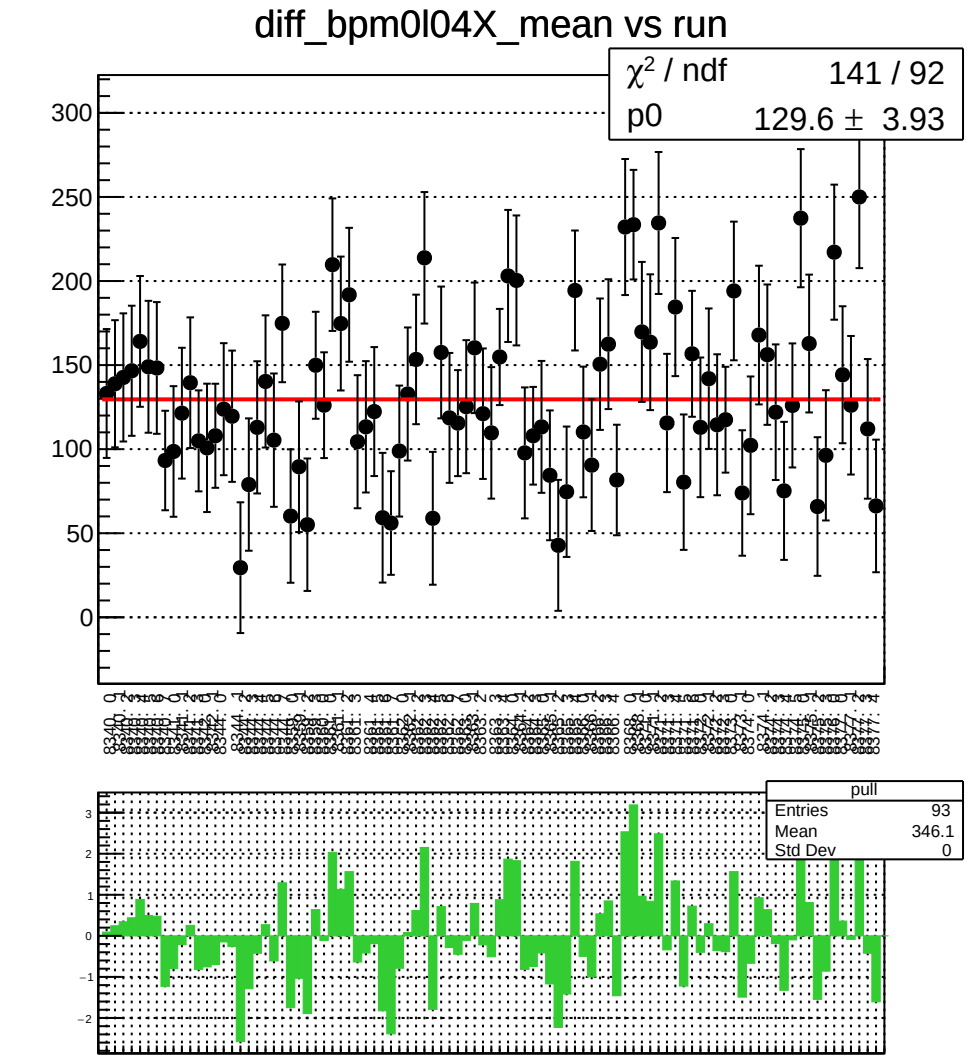

pull1D
Entries 93
Mean 0.05259
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

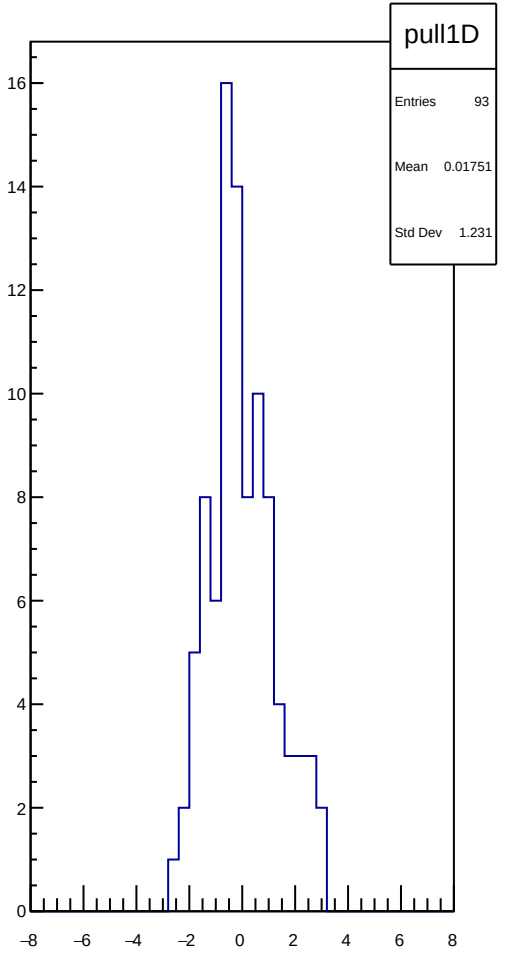

diff_bpm0l03X_rms vs run
χ² / ndf 8.07e+05 / 92
p0 2596 ± 2.562
80000
70000
60000
50000
40000
30000
20000
10000

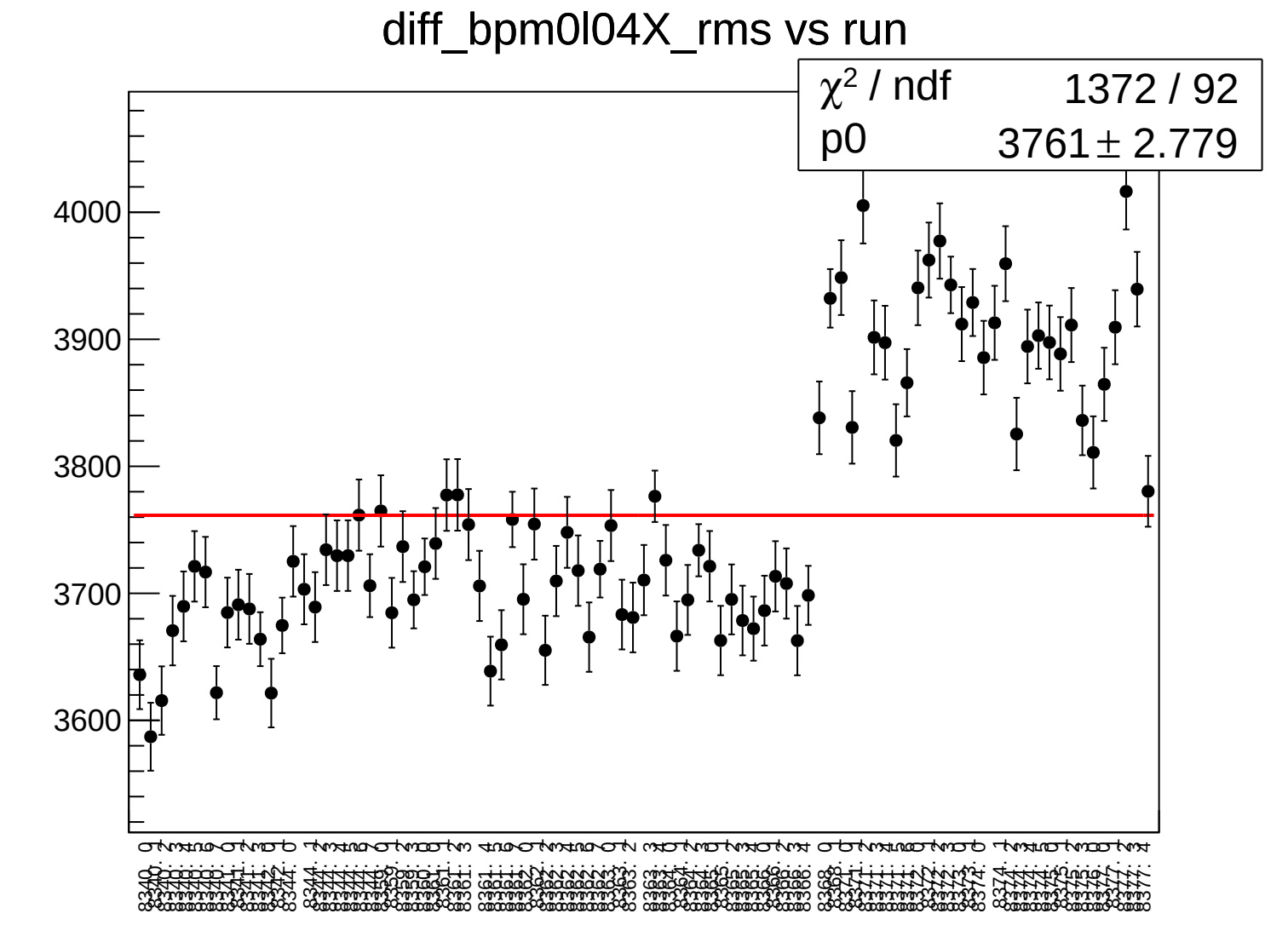

diff_bpm0l03Y_mean vs run
χ² / ndf 135.8 / 92
p0 −125.7 ± 3.114
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 140.3
Std Dev 0
3
2
1
0
−1
−2

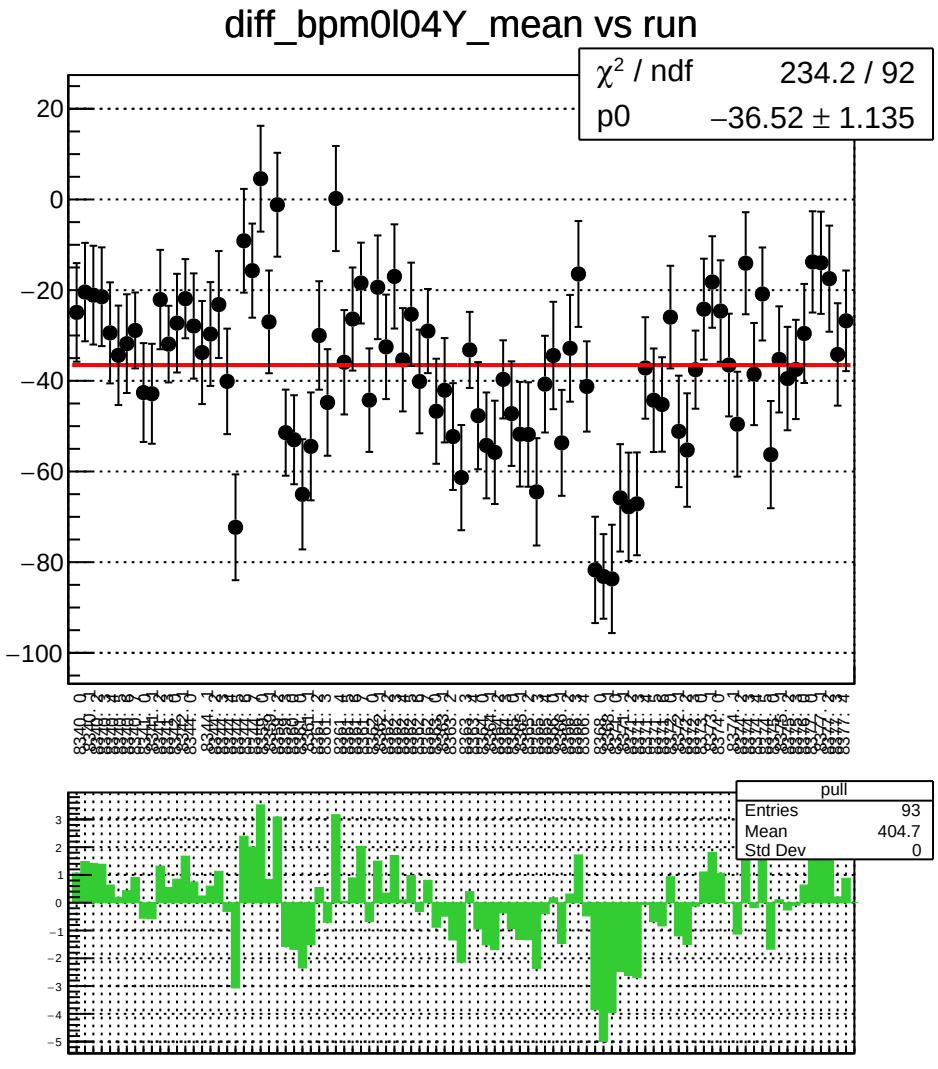

pull1D
Entries 93
Mean 0.07319
Std Dev 1.206
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

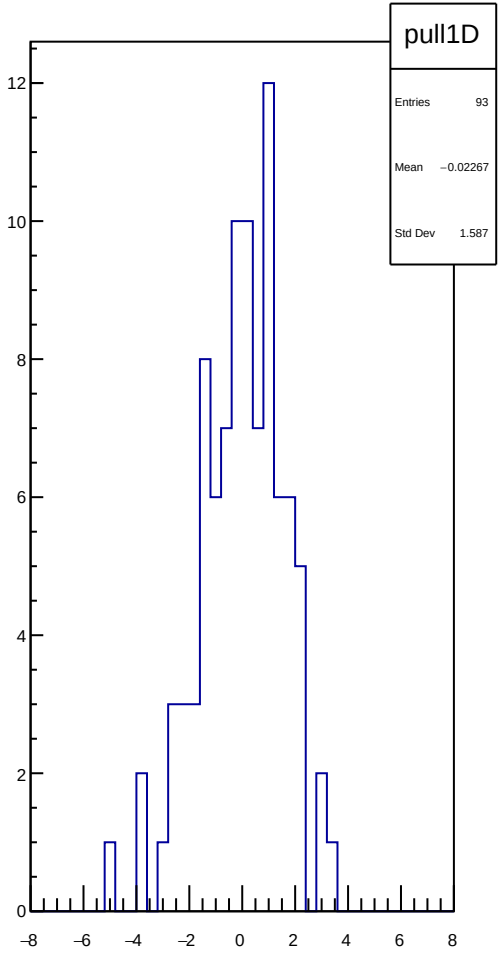

diff_bpm0l03Y_rms vs run
χ² / ndf 8.587e+05 / 92
p0 2174 ± 2.202
80000
70000
60000
50000
40000
30000
20000
10000

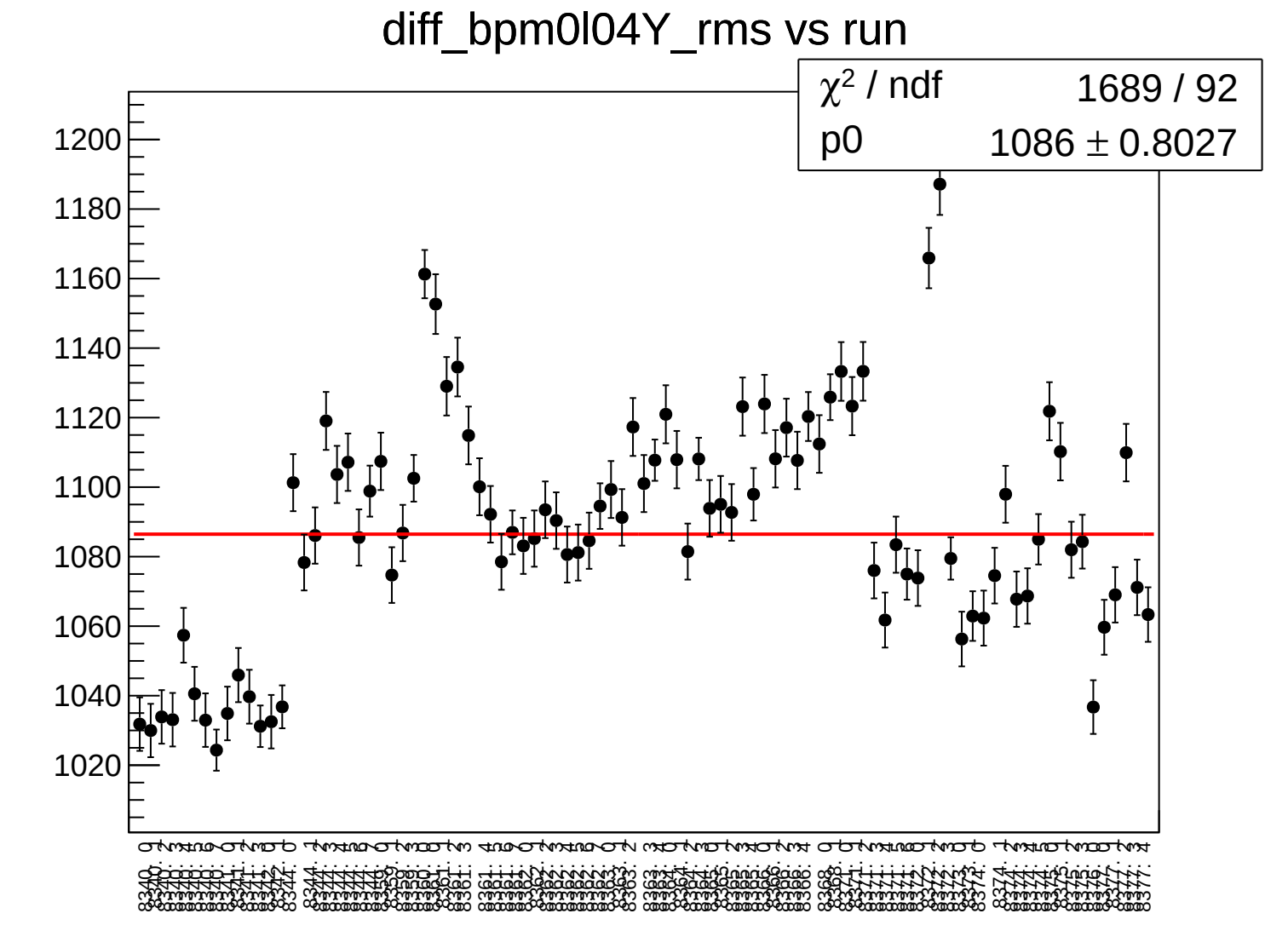

diff_bpm0l04X_mean vs run
χ² / ndf 141 / 92
p0 129.6 ± 3.93
pull
Entries 93
Mean 346.1
Std Dev 0

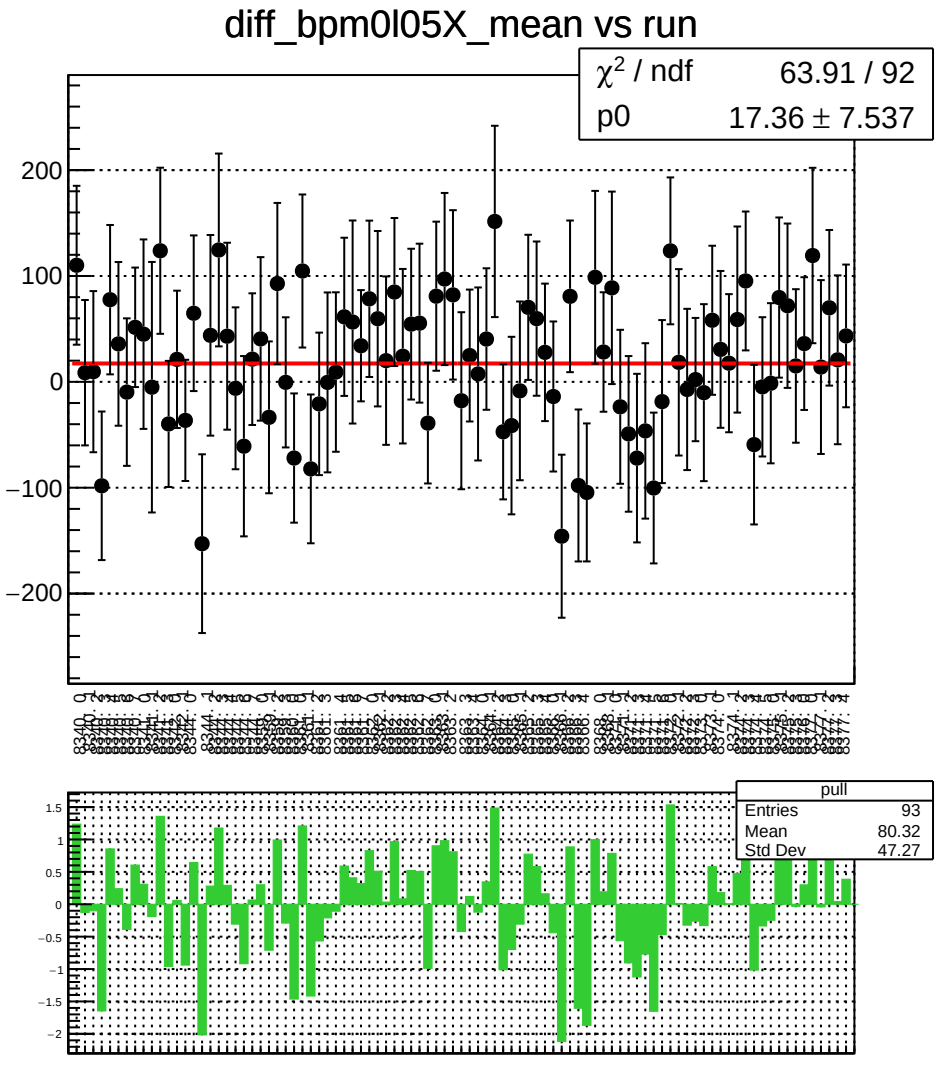

pull1D
Entries 93
Mean 0.01751
Std Dev 1.231

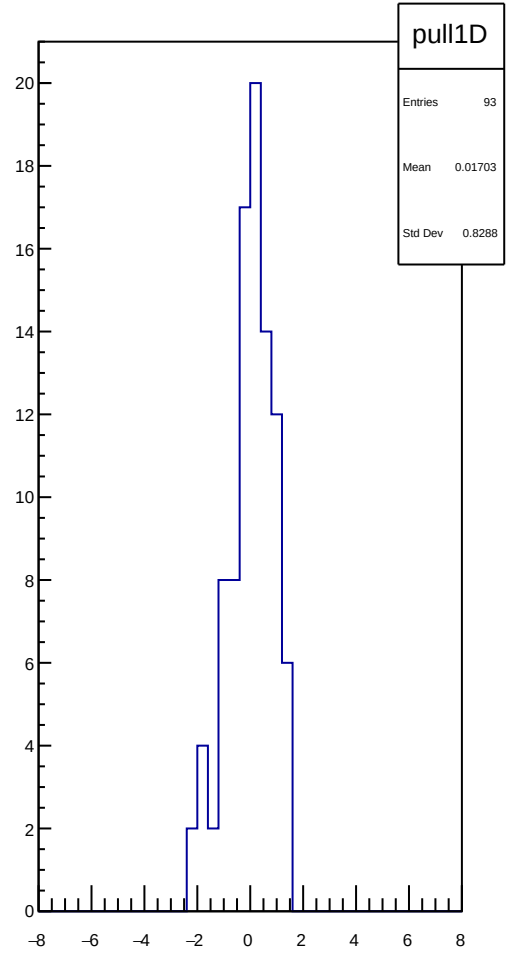

diff_bpm0l04X_rms vs run
χ² / ndf 1372 / 92
p0 3761 ± 2.779
4000
3900
3800
3700
3600

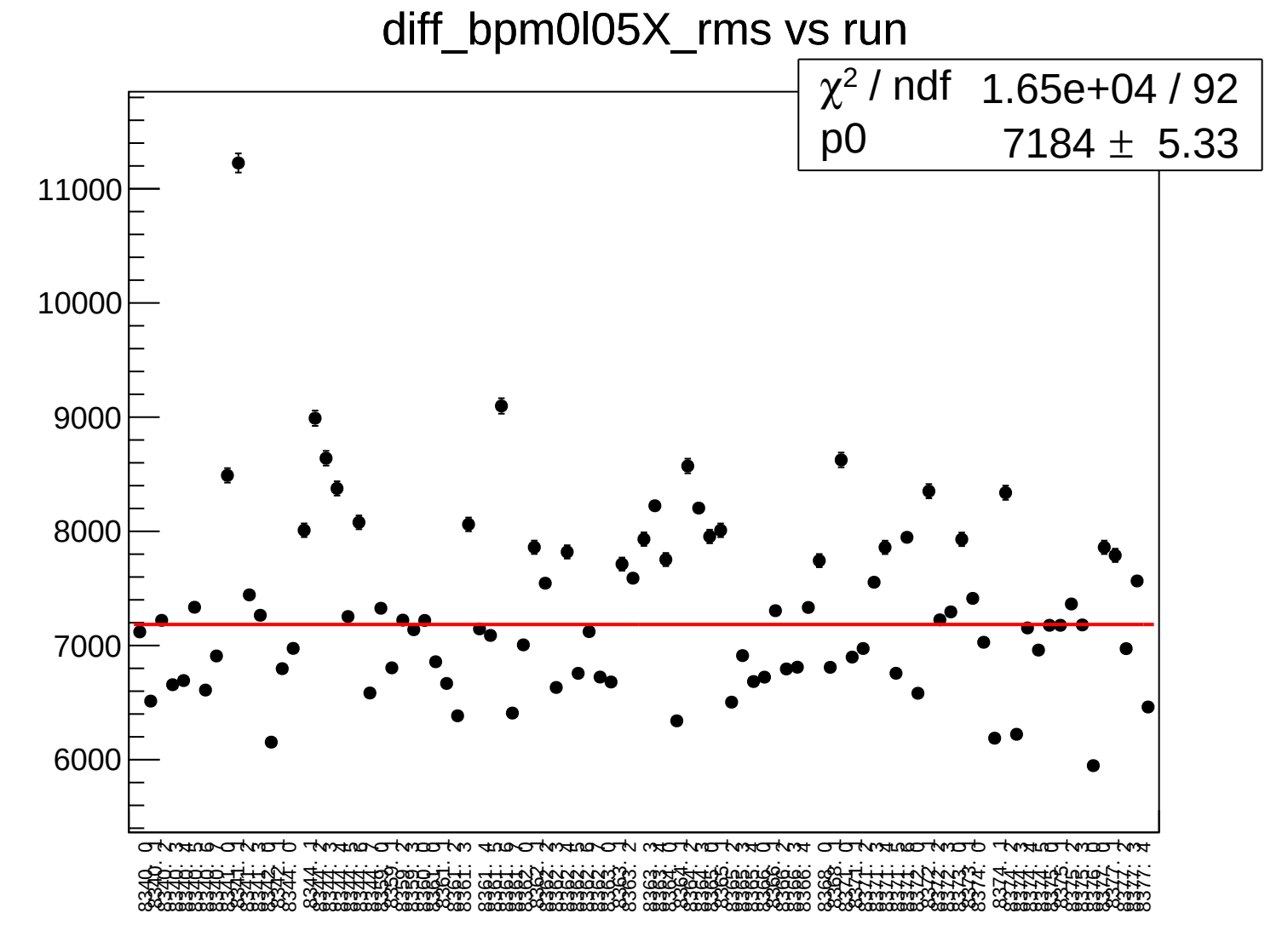

diff_bpm0l04Y_mean vs run
χ² / ndf 234.2 / 92
p0 −36.52 ± 1.135
pull
Entries 93
Mean 404.7
Std Dev 0

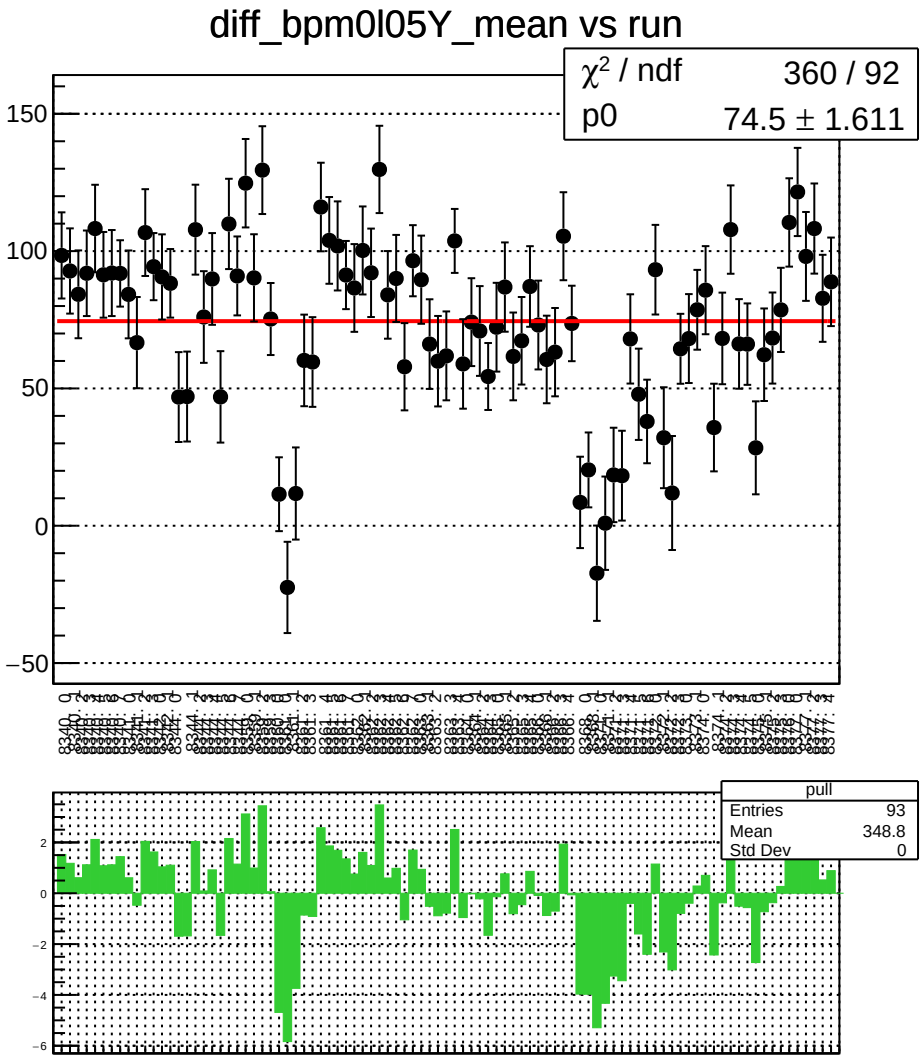

pull1D
Entries 93
Mean −0.02267
Std Dev 1.587

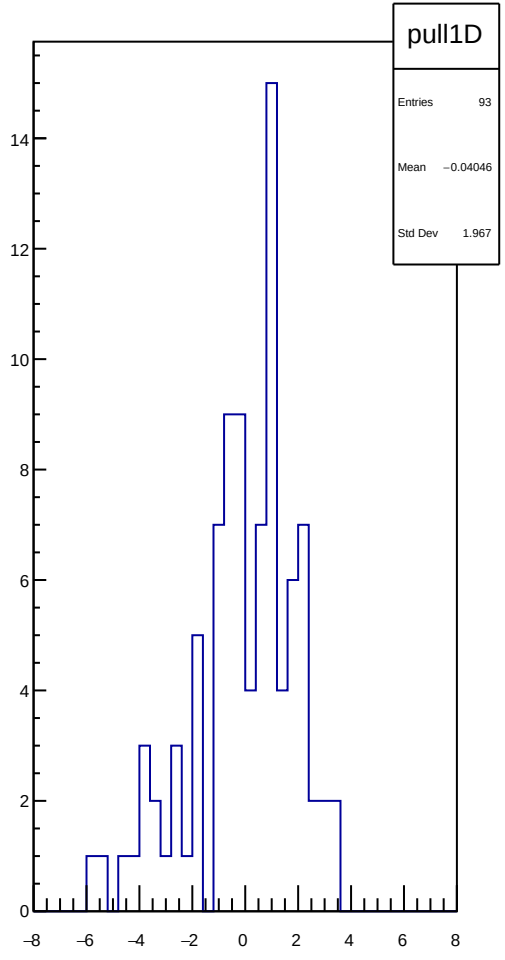

diff_bpm0l04Y_rms vs run
χ² / ndf 1689 / 92
p0 1086 ± 0.8027
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

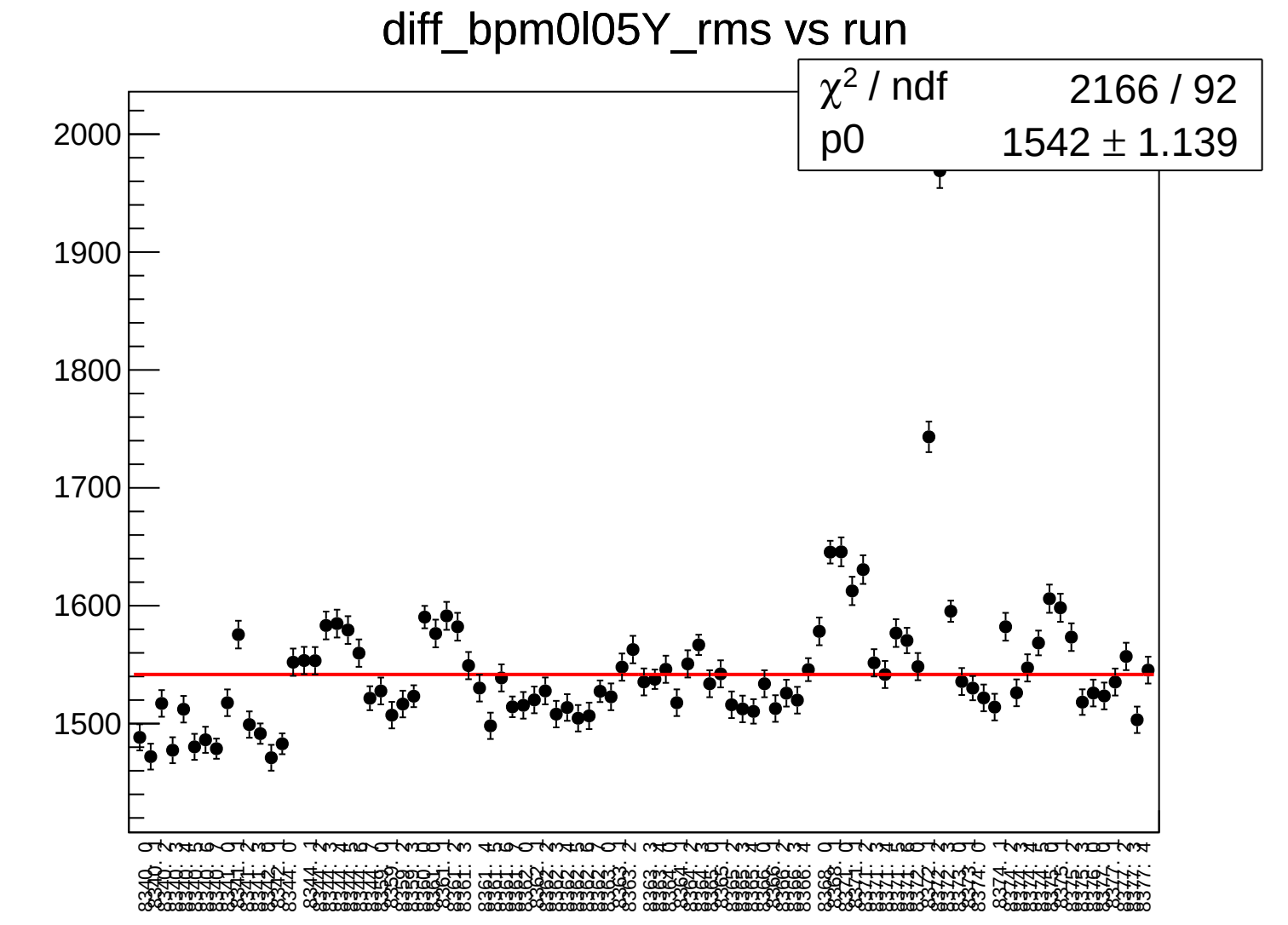

diff_bpm0l05X_mean vs run
χ^2 / ndf 63.91 / 92
p0 17.36 ± 7.537
200
100
0
−100
−200
pull
Entries 93
Mean 80.32
Std Dev 47.27
1.5
1
0.5
0
−0.5
−1
−1.5
−2

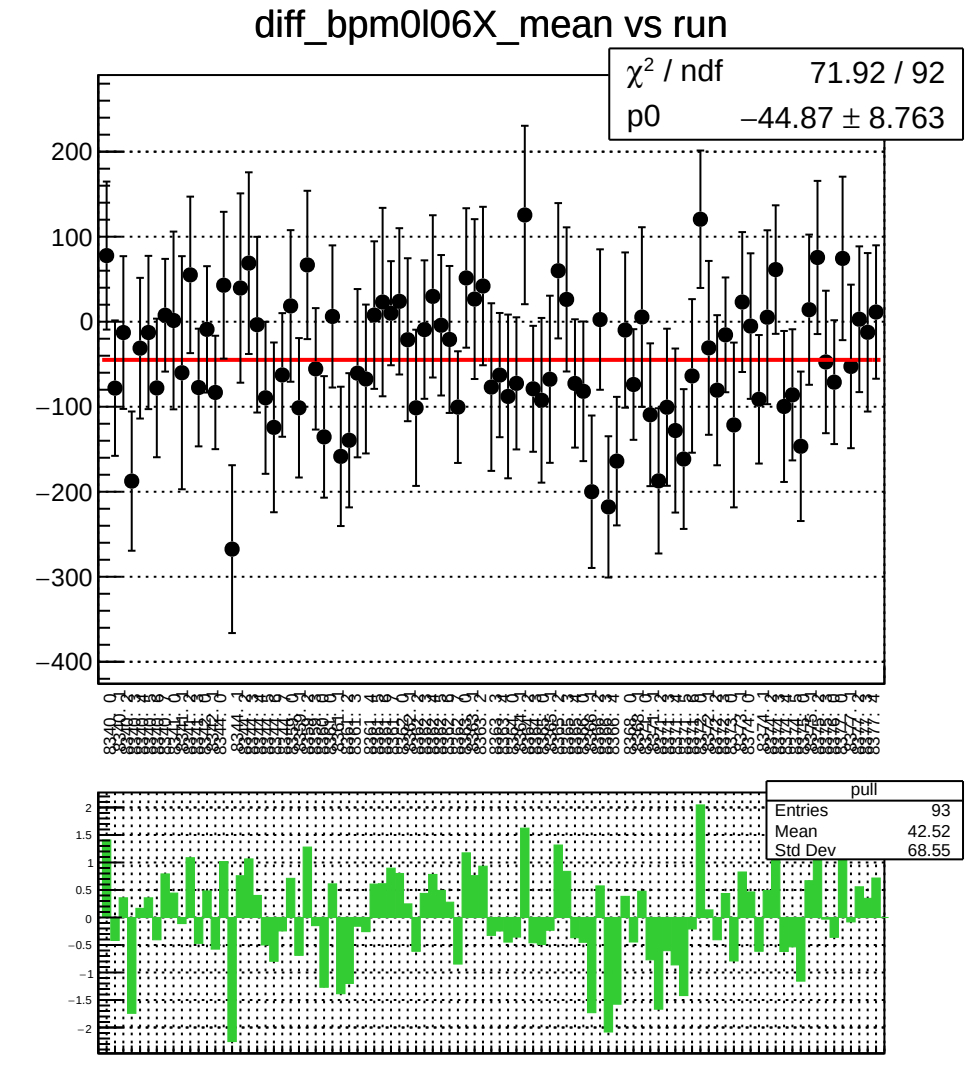

pull1D
Entries 93
Mean 0.01703
Std Dev 0.8288
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

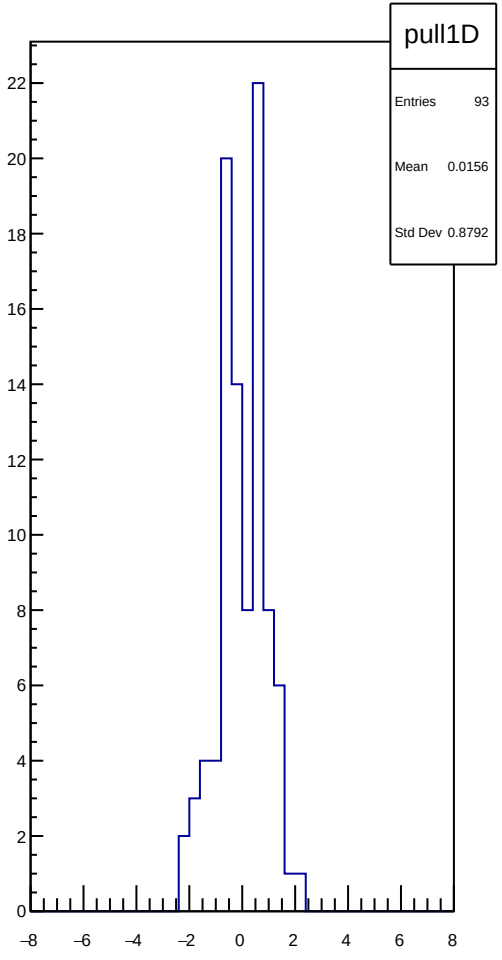

diff_bpm0l05X_rms vs run
χ² / ndf 1.65e+04 / 92
p0 7184 ± 5.33
11000
10000
9000
8000
7000
6000

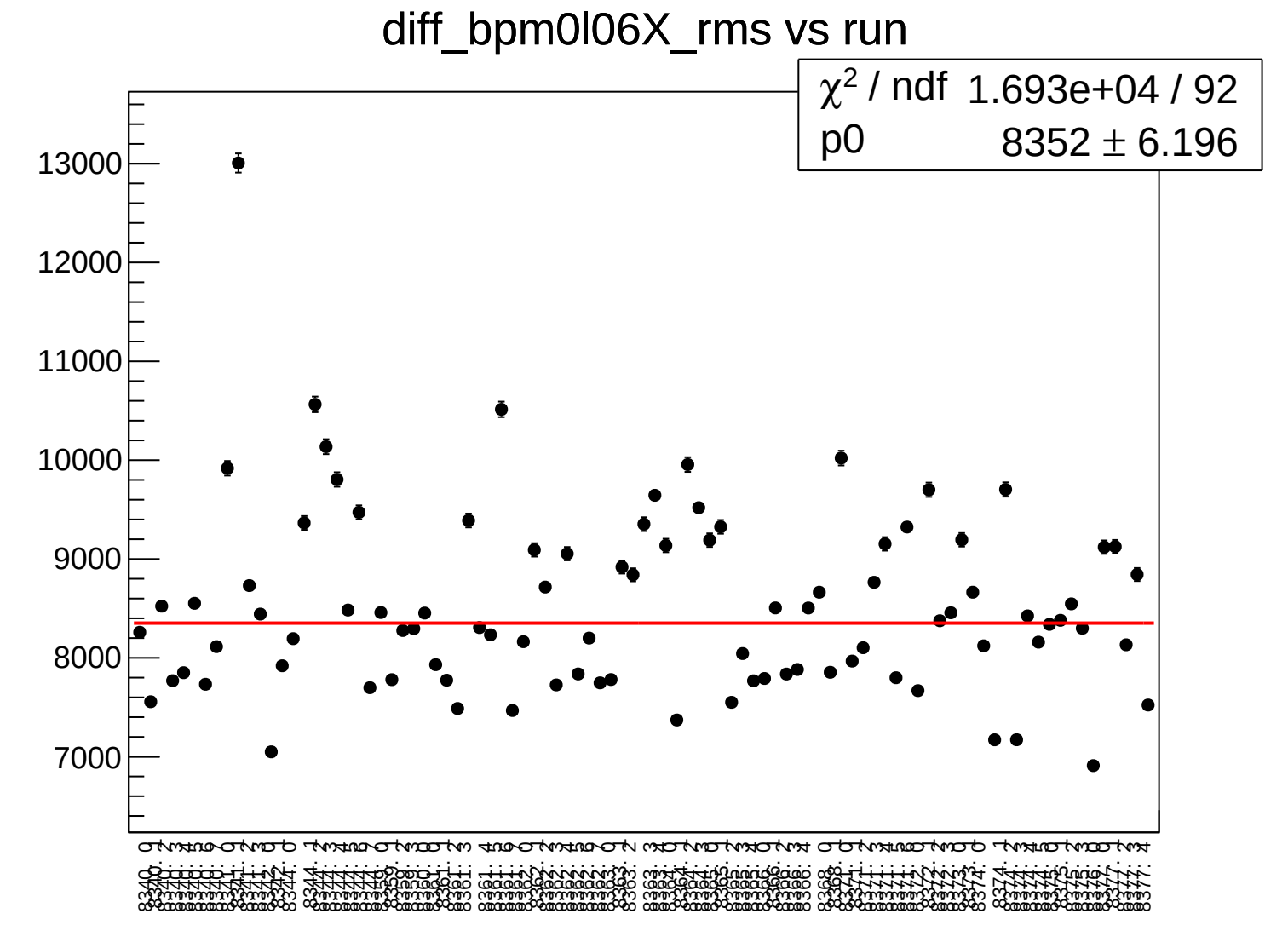

diff_bpm0l05Y_mean vs run
χ² / ndf 360 / 92
p0 74.5 ± 1.611
150
100
50
0
−50
pull
Entries 93
Mean 348.8
Std Dev 0
2
0
−2
−4
−6

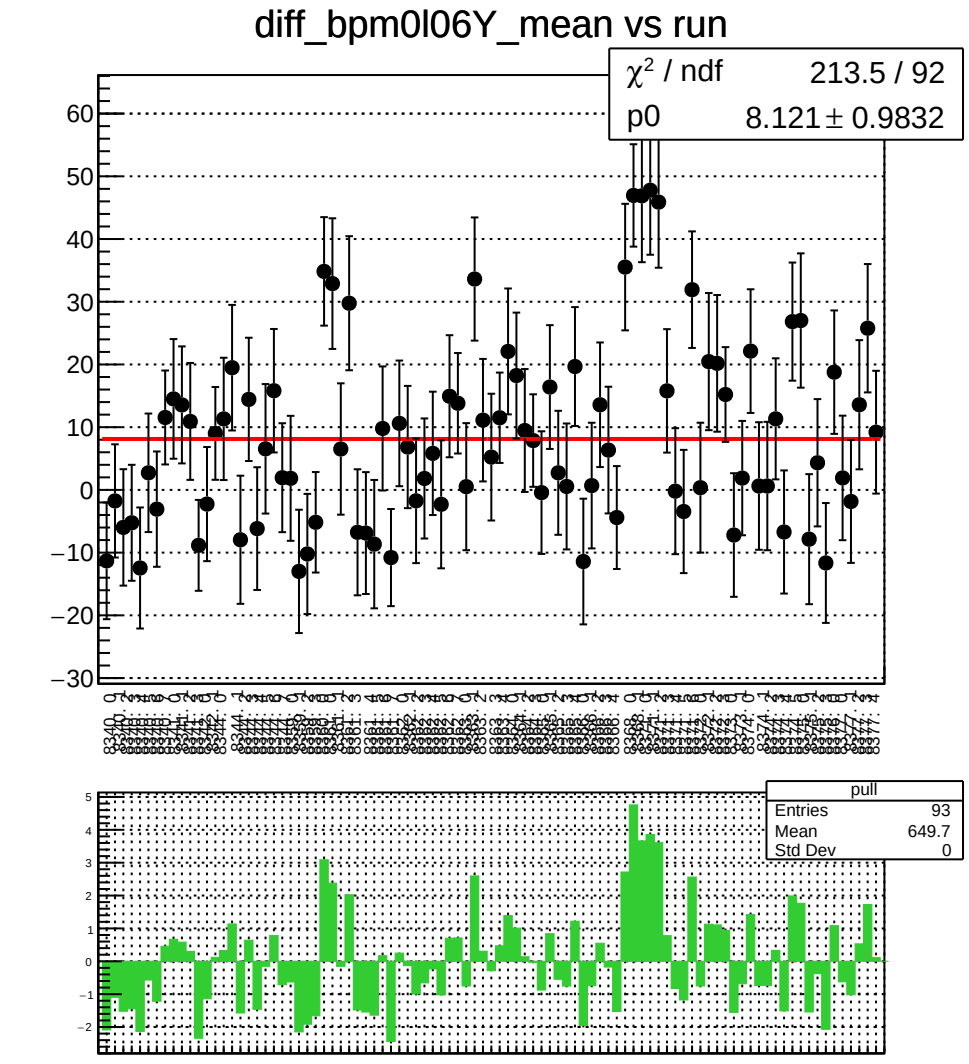

pull1D
Entries 93
Mean −0.04046
Std Dev 1.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

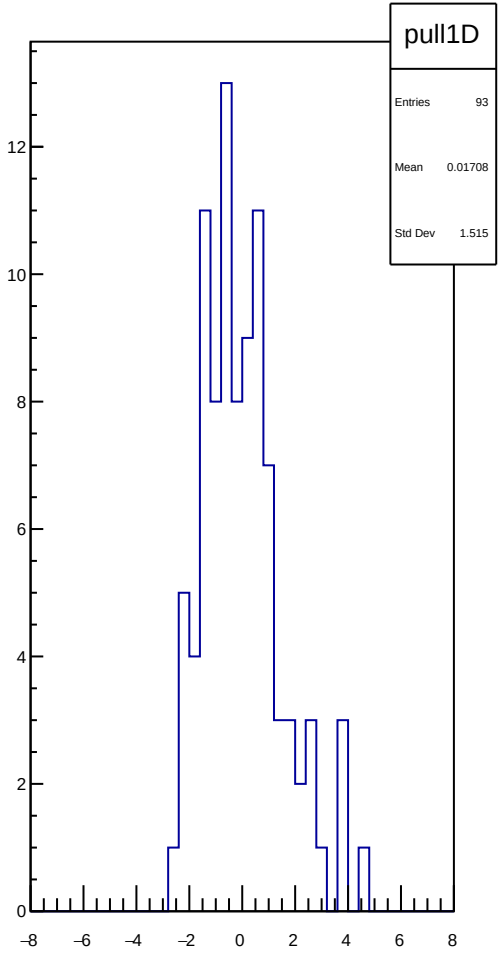

diff_bpm0l05Y_rms vs run
χ² / ndf 2166 / 92
p0 1542 ± 1.139
2000
1900
1800
1700
1600
1500

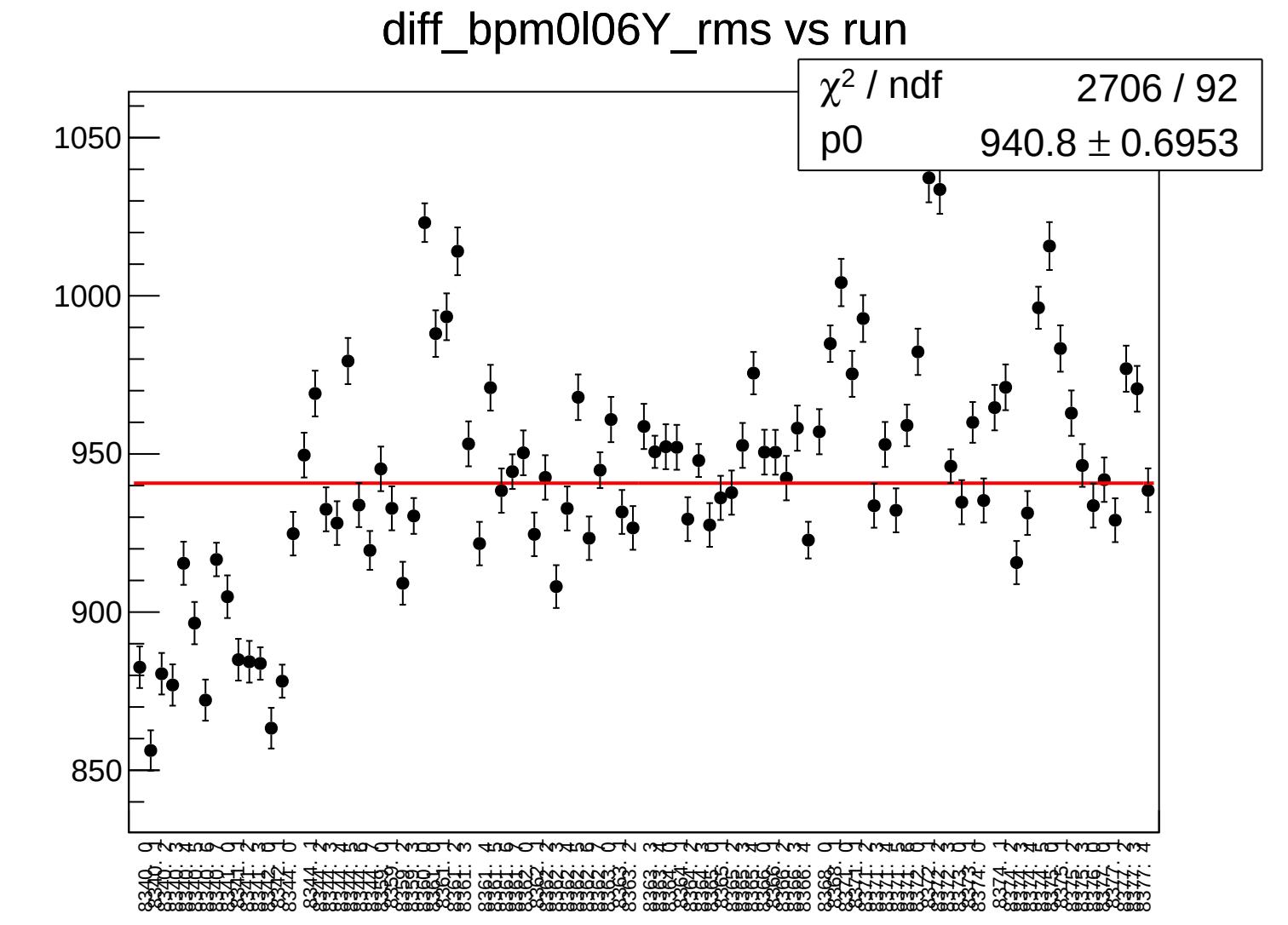

diff_bpm0l06X_mean vs run
χ² / ndf 71.92 / 92
p0 −44.87 ± 8.763
pull
Entries 93
Mean 42.52
Std Dev 68.55

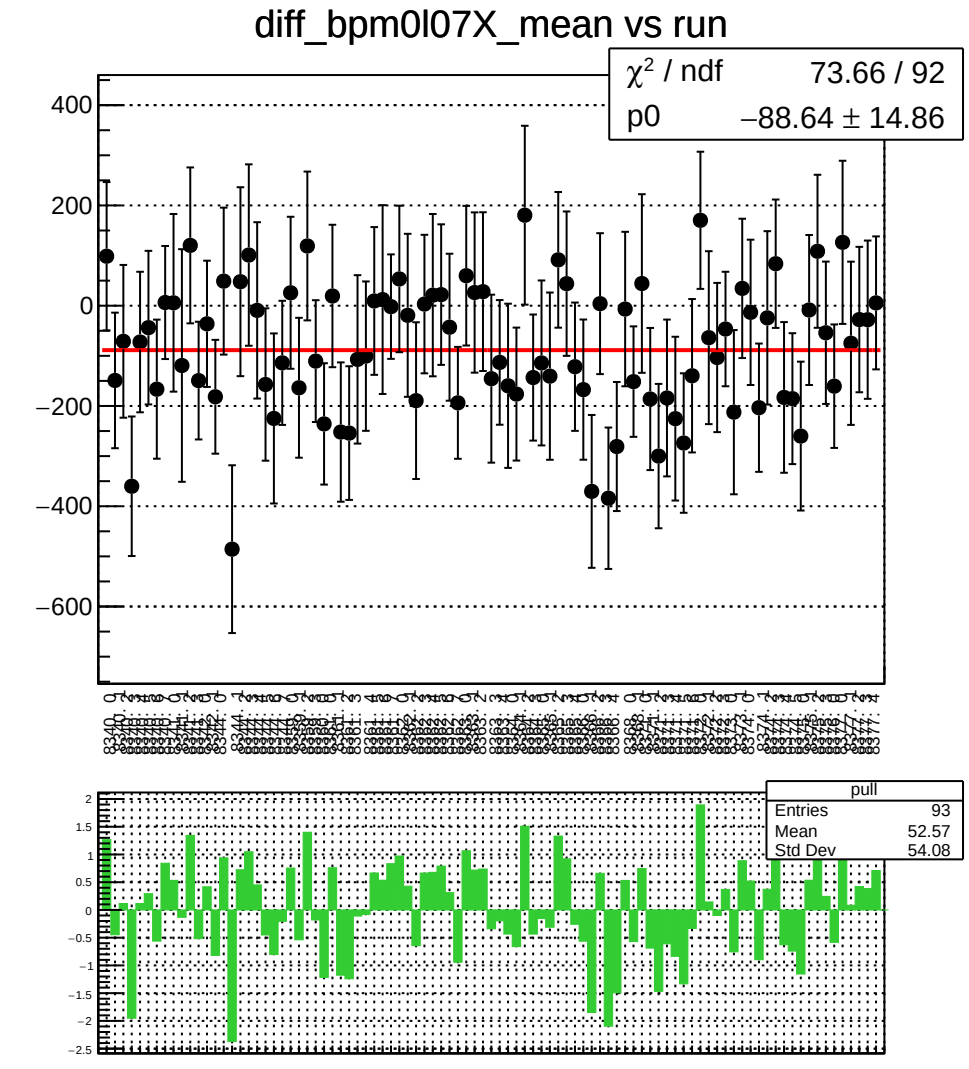

pull1D
Entries 93
Mean 0.0156
Std Dev 0.8792

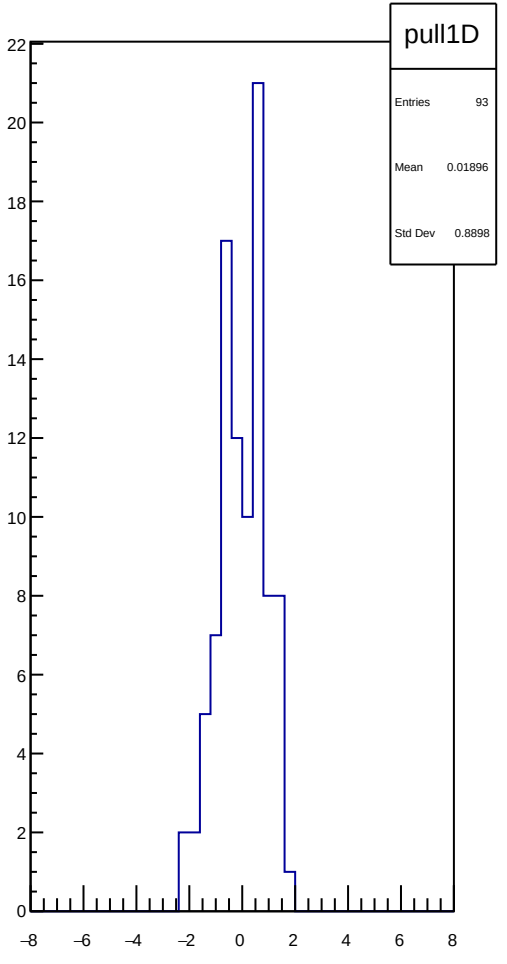

diff_bpm0l06X_rms vs run
χ² / ndf 1.693e+04 / 92
p0 8352 ± 6.196
13000
12000
11000
10000
9000
8000
7000


diff_bpm0l06Y_mean vs run
χ² / ndf 213.5 / 92
p0 8.121 ± 0.9832
pull
Entries 93
Mean 649.7
Std Dev 0

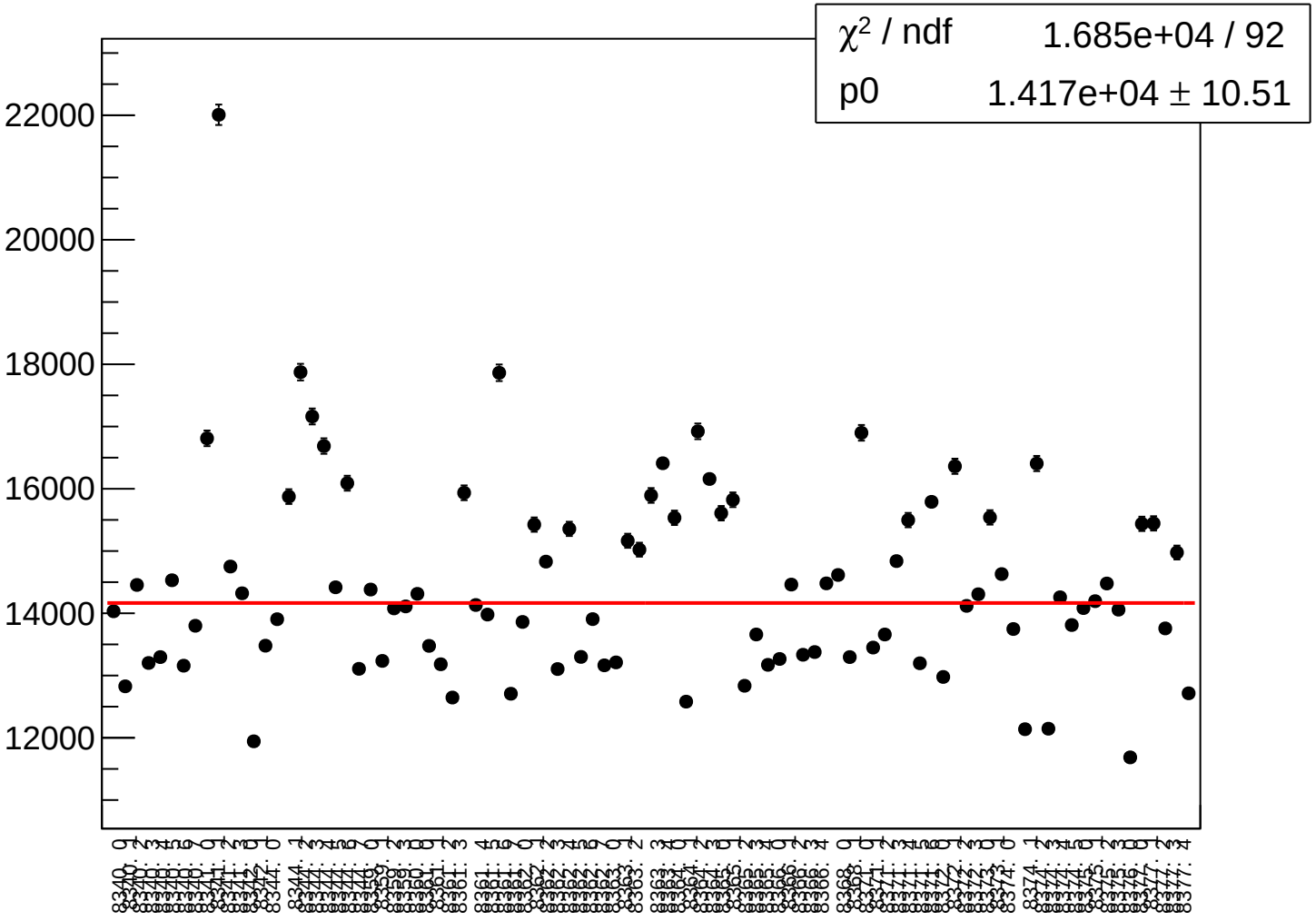

pull1D
Entries 93
Mean 0.01708
Std Dev 1.515

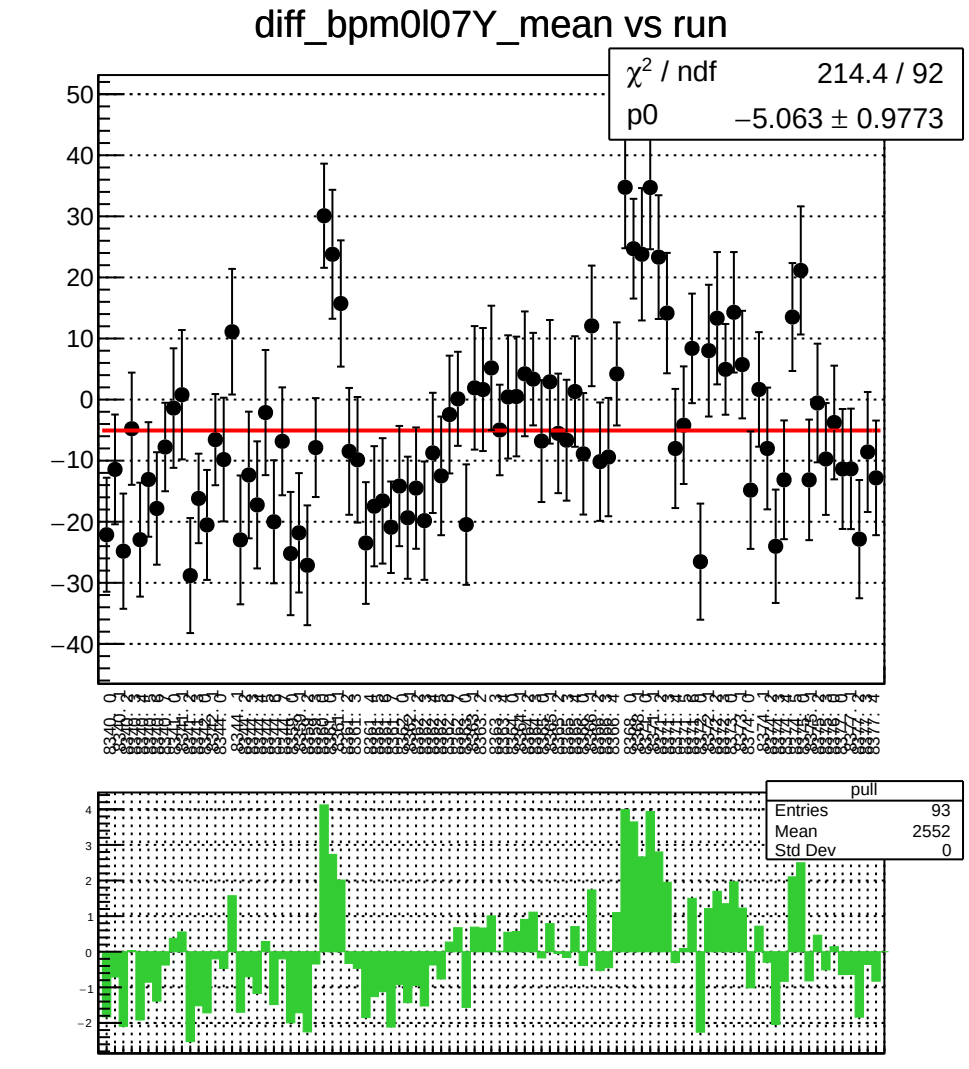

diff_bpm0l06Y_rms vs run
χ² / ndf 2706 / 92
p0 940.8 ± 0.6953
1050
1000
950
900
850

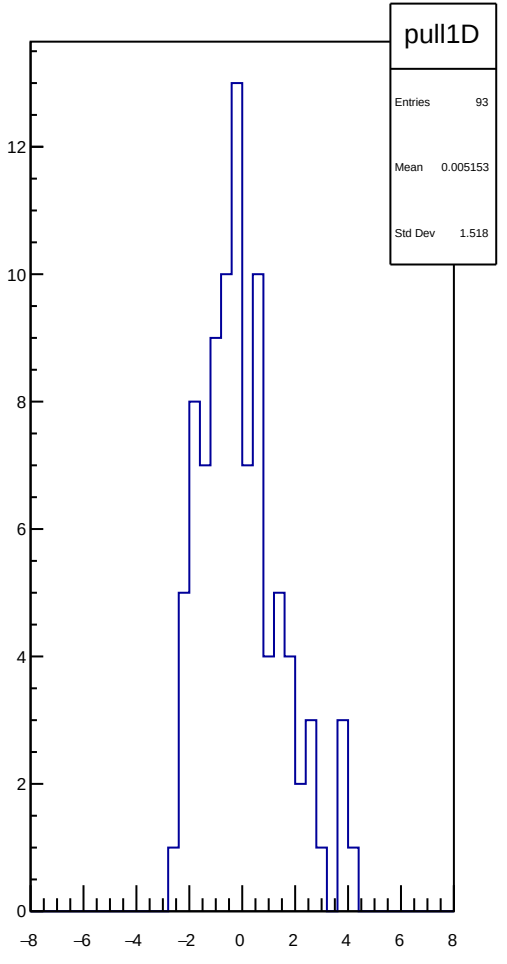

diff_bpm0l07X_mean vs run
χ² / ndf 73.66 / 92
p0 −88.64 ± 14.86
pull
Entries 93
Mean 52.57
Std Dev 54.08

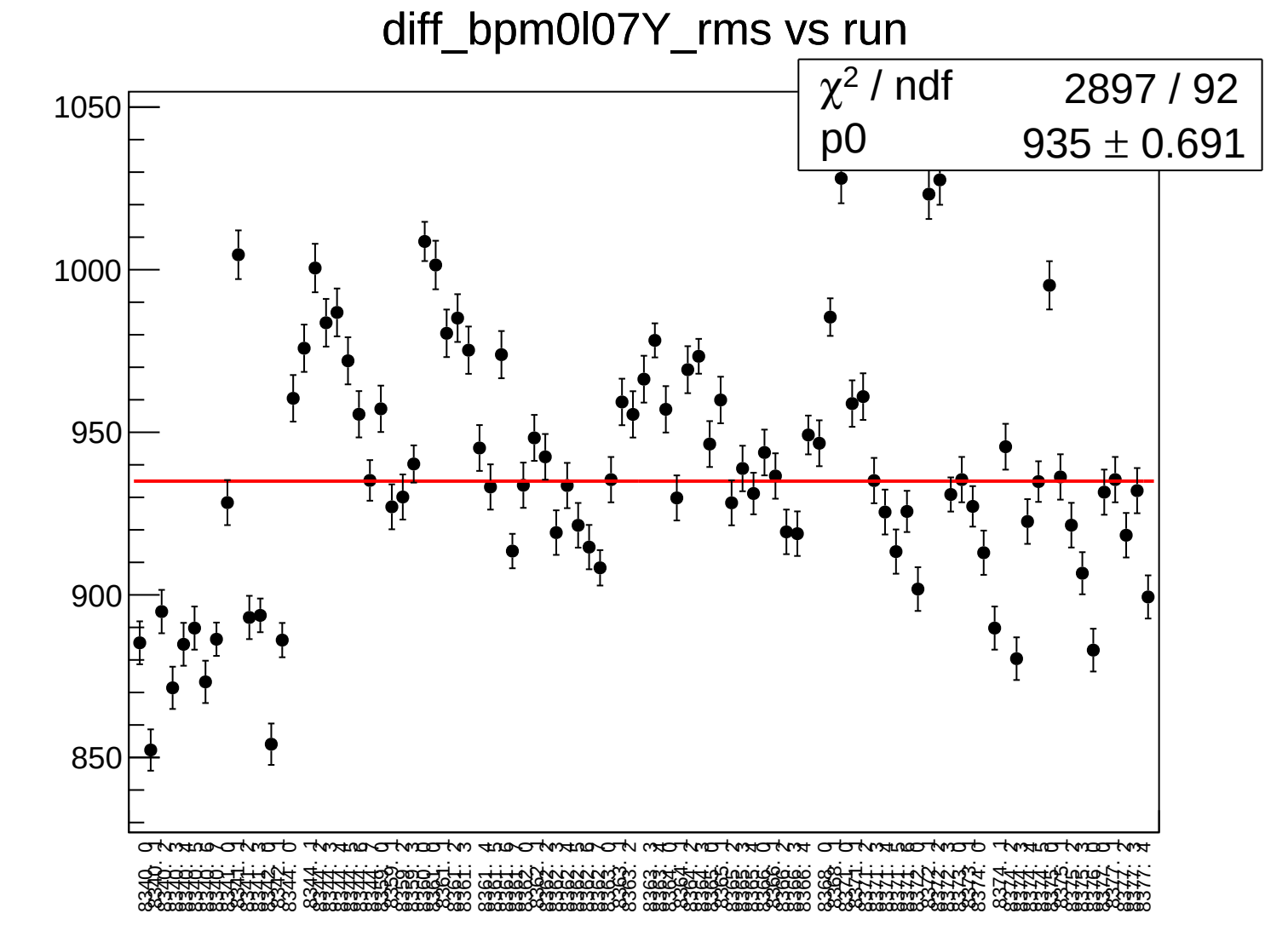

pull1D
Entries 93
Mean 0.01896
Std Dev 0.8898

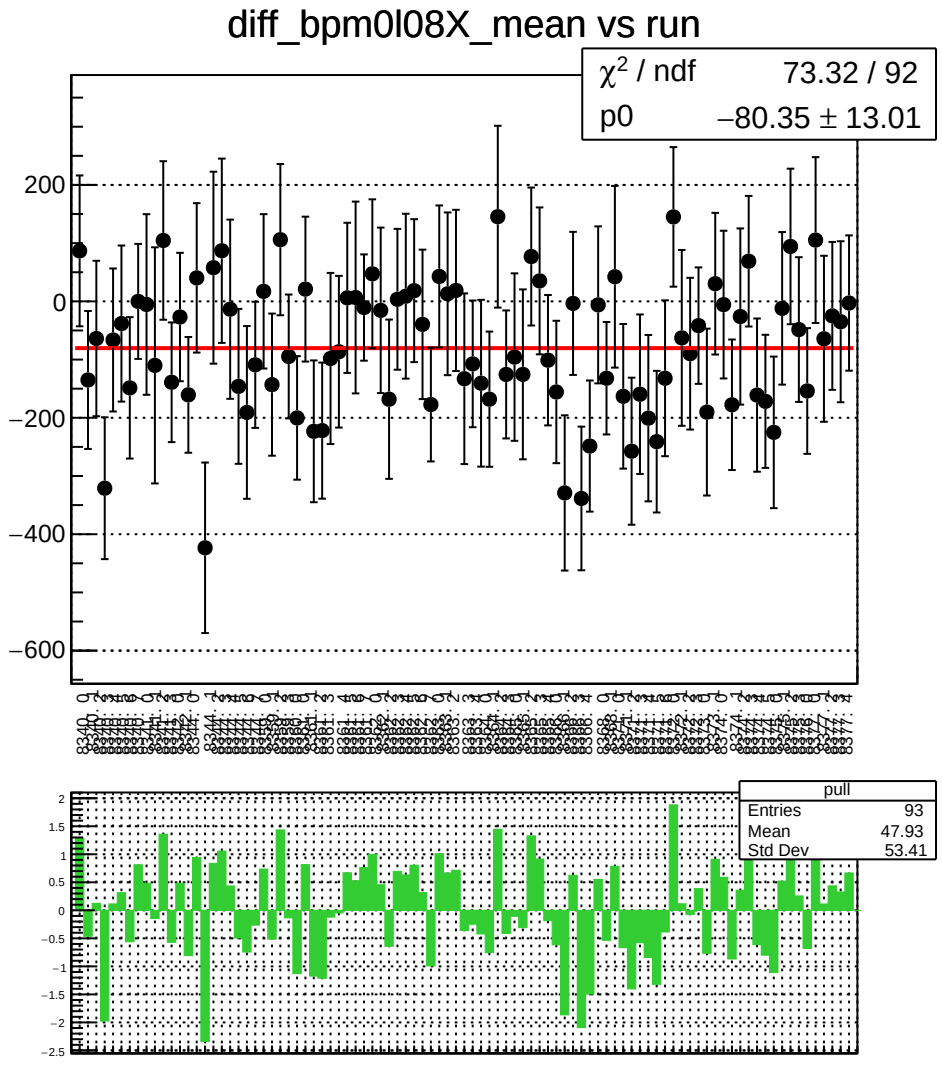
diff_bpm0l07X_rms vs run

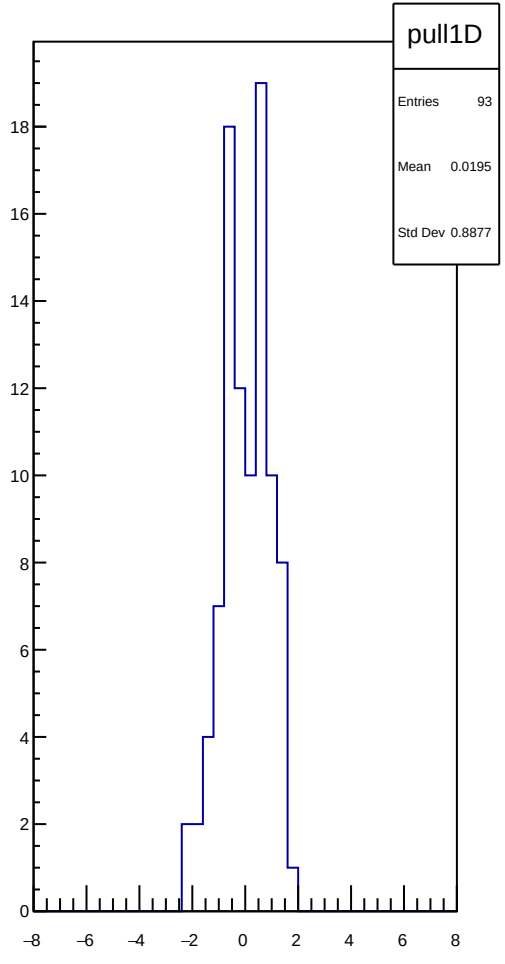


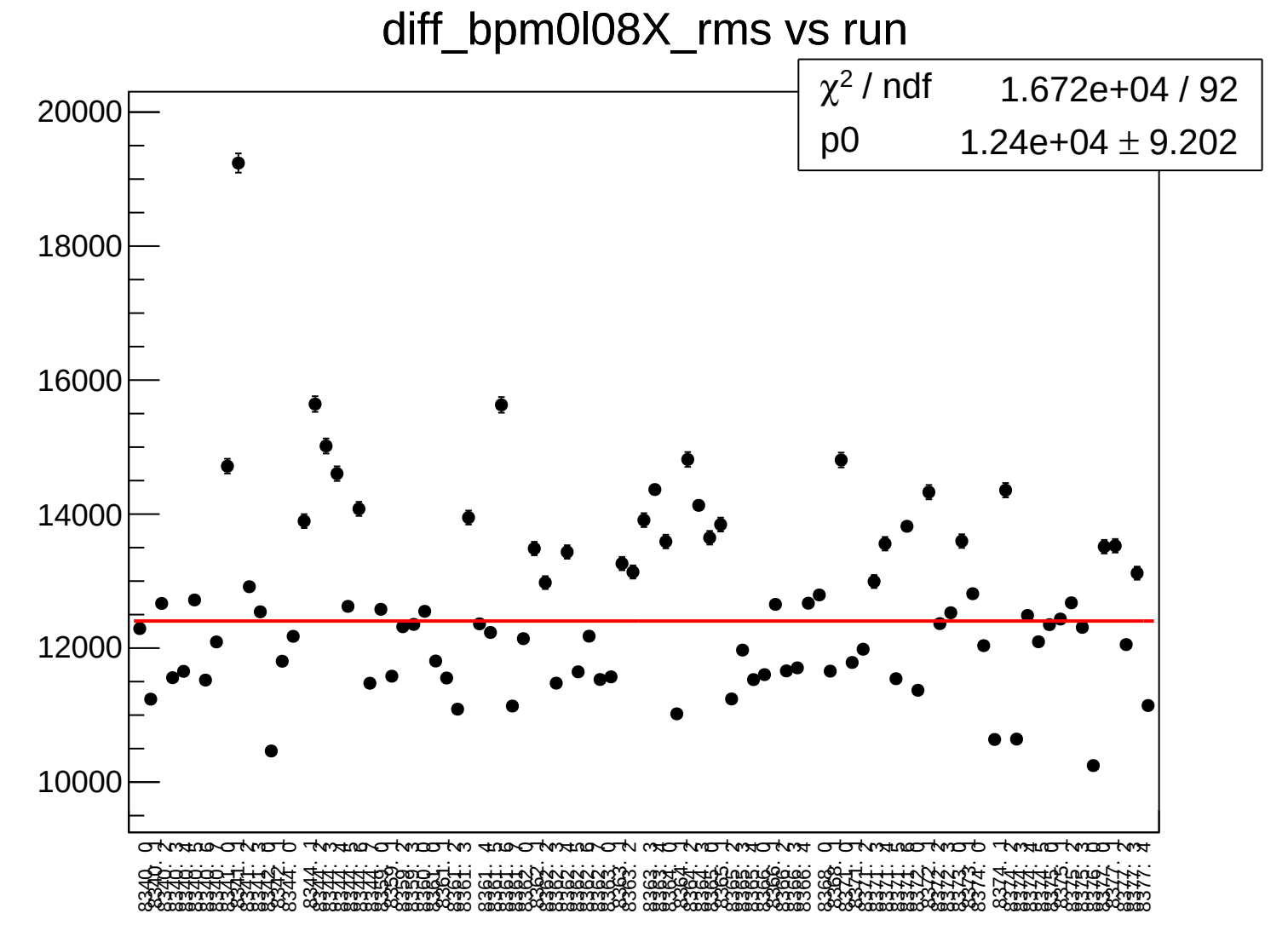

diff_bpm0l07Y_mean vs run
χ² / ndf 214.4 / 92
p0 −5.063 ± 0.9773
pull
Entries 93
Mean 2552
Std Dev 0

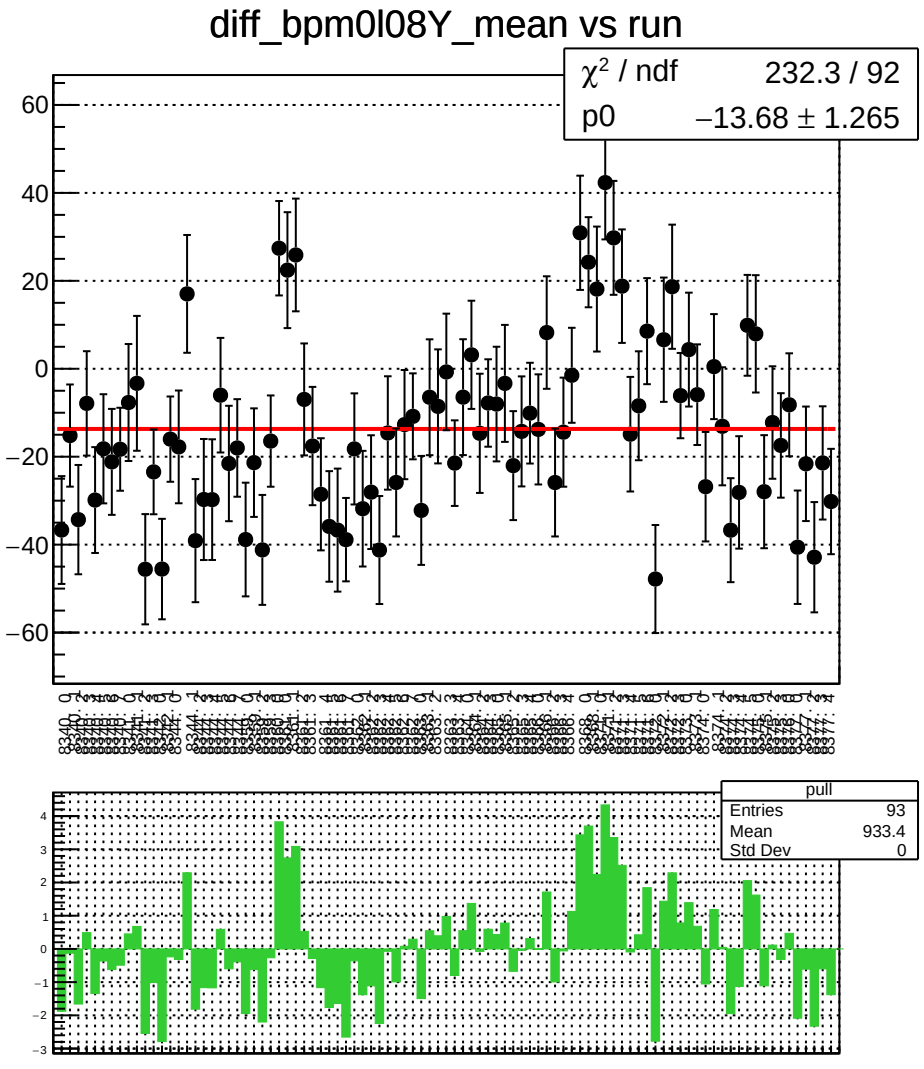

pull1D
Entries 93
Mean 0.005153
Std Dev 1.518

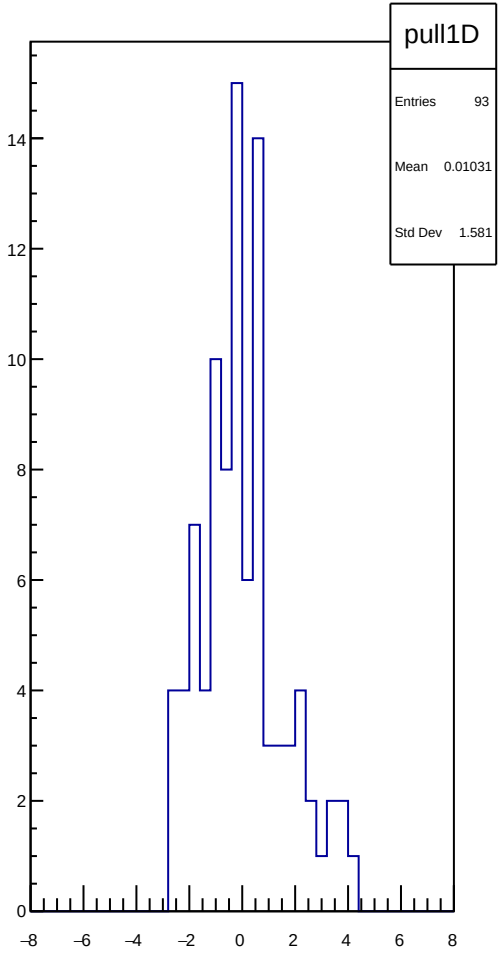

diff_bpm0l07Y_rms vs run
χ² / ndf 2897 / 92
p0 935 ± 0.691
1050
1000
950
900
850

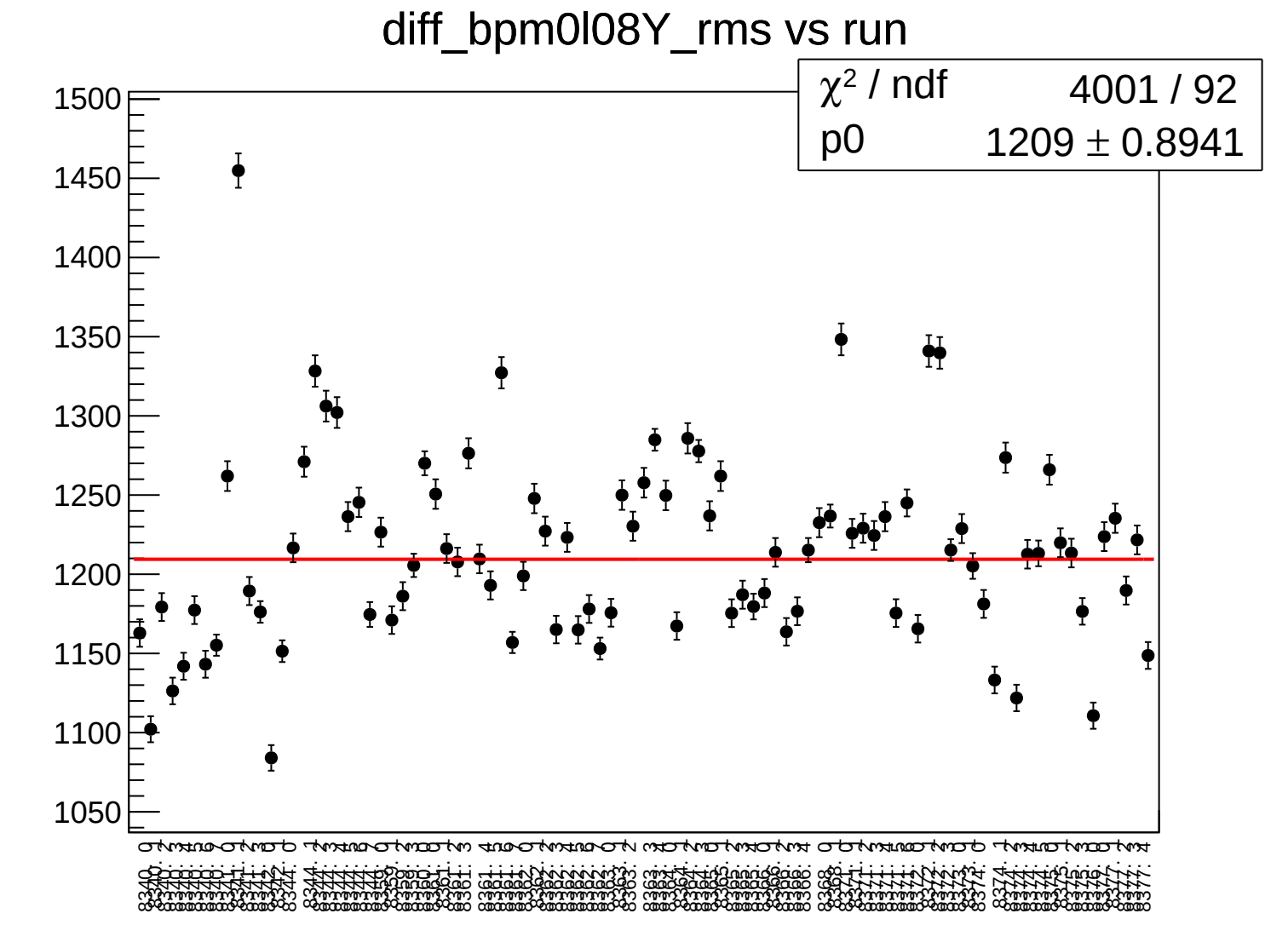

diff_bpm0l08X_mean vs run
χ² / ndf 73.32 / 92
p0 −80.35 ± 13.01
200
0
−200
−400
−600
pull
Entries 93
Mean 47.93
Std Dev 53.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

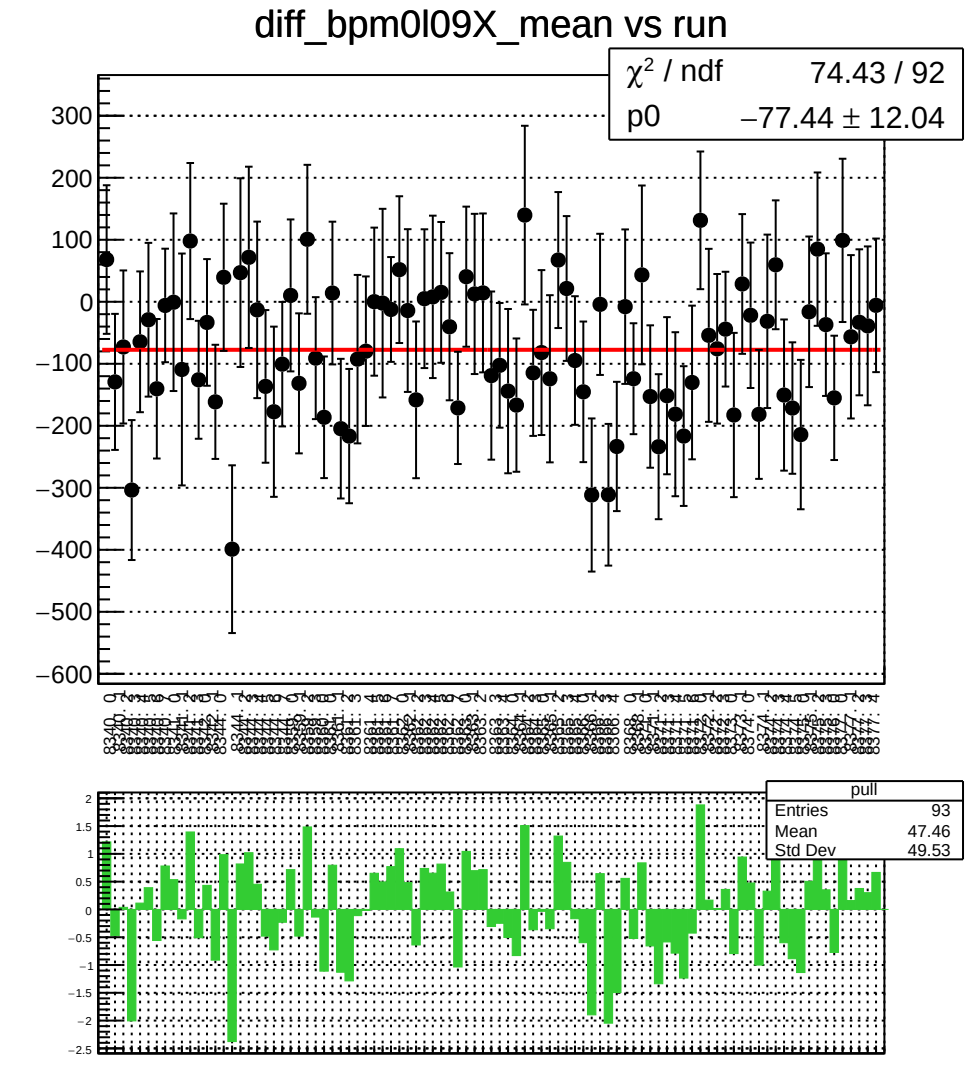

pull1D
Entries 93
Mean 0.0195
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

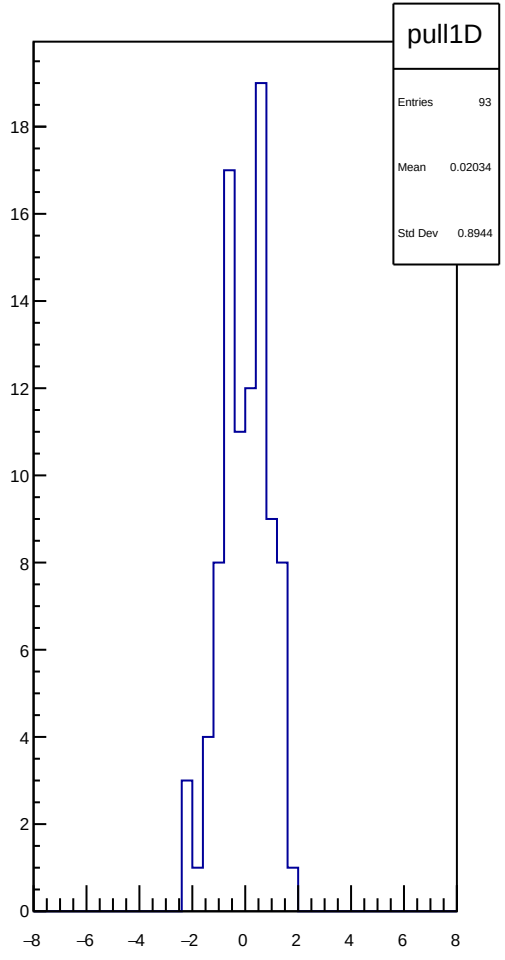

diff_bpm0l08X_rms vs run
χ² / ndf 1.672e+04 / 92
p0 1.24e+04 ± 9.202
20000
18000
16000
14000
12000
10000


diff_bpm0l08Y_mean vs run
χ² / ndf 232.3 / 92
p0 −13.68 ± 1.265
pull
Entries 93
Mean 933.4
Std Dev 0

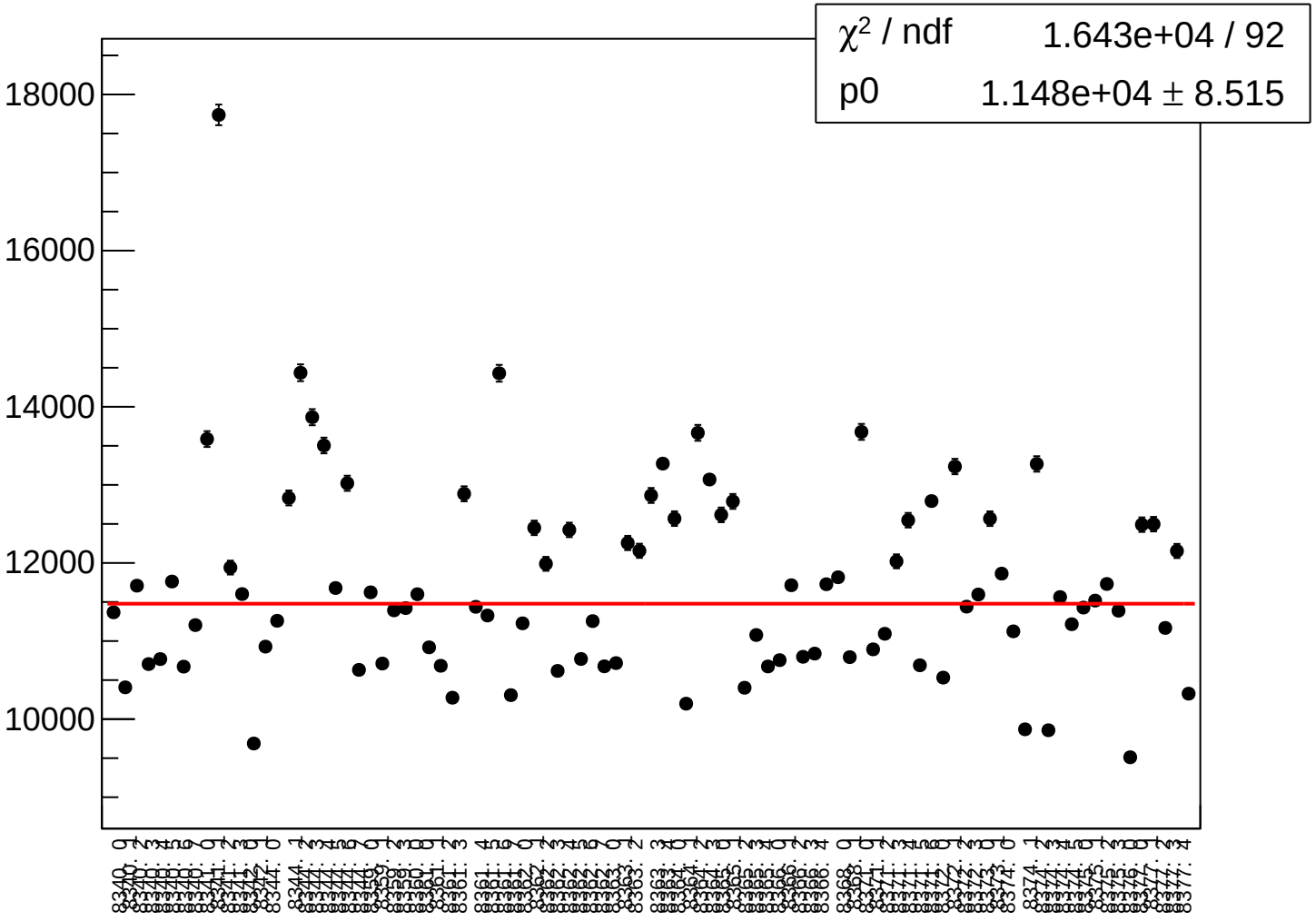

pull1D
Entries 93
Mean 0.01031
Std Dev 1.581

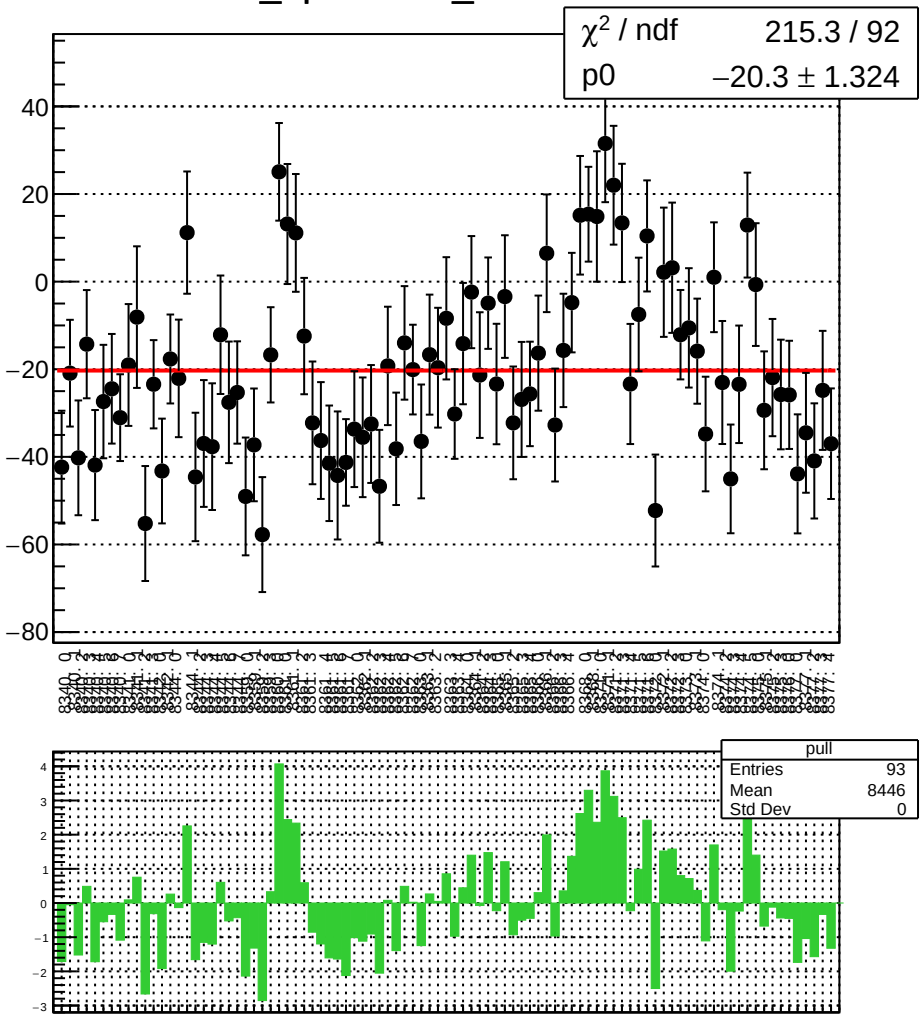

diff_bpm0l08Y_rms vs run
χ² / ndf 4001 / 92
p0 1209 ± 0.8941
1500
1450
1400
1350
1300
1250
1200
1150
1100
1050

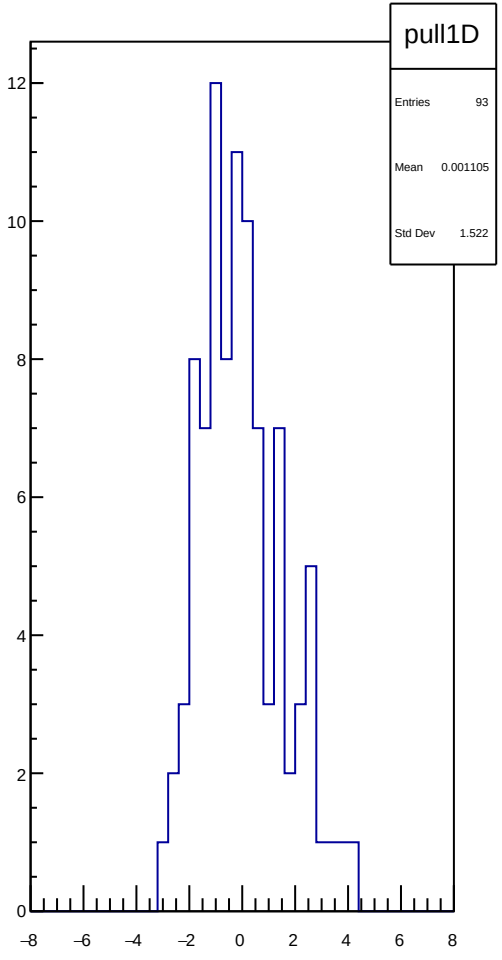

diff_bpm0l09X_mean vs run
χ² / ndf 74.43 / 92
p0 −77.44 ± 12.04
pull
Entries 93
Mean 47.46
Std Dev 49.53

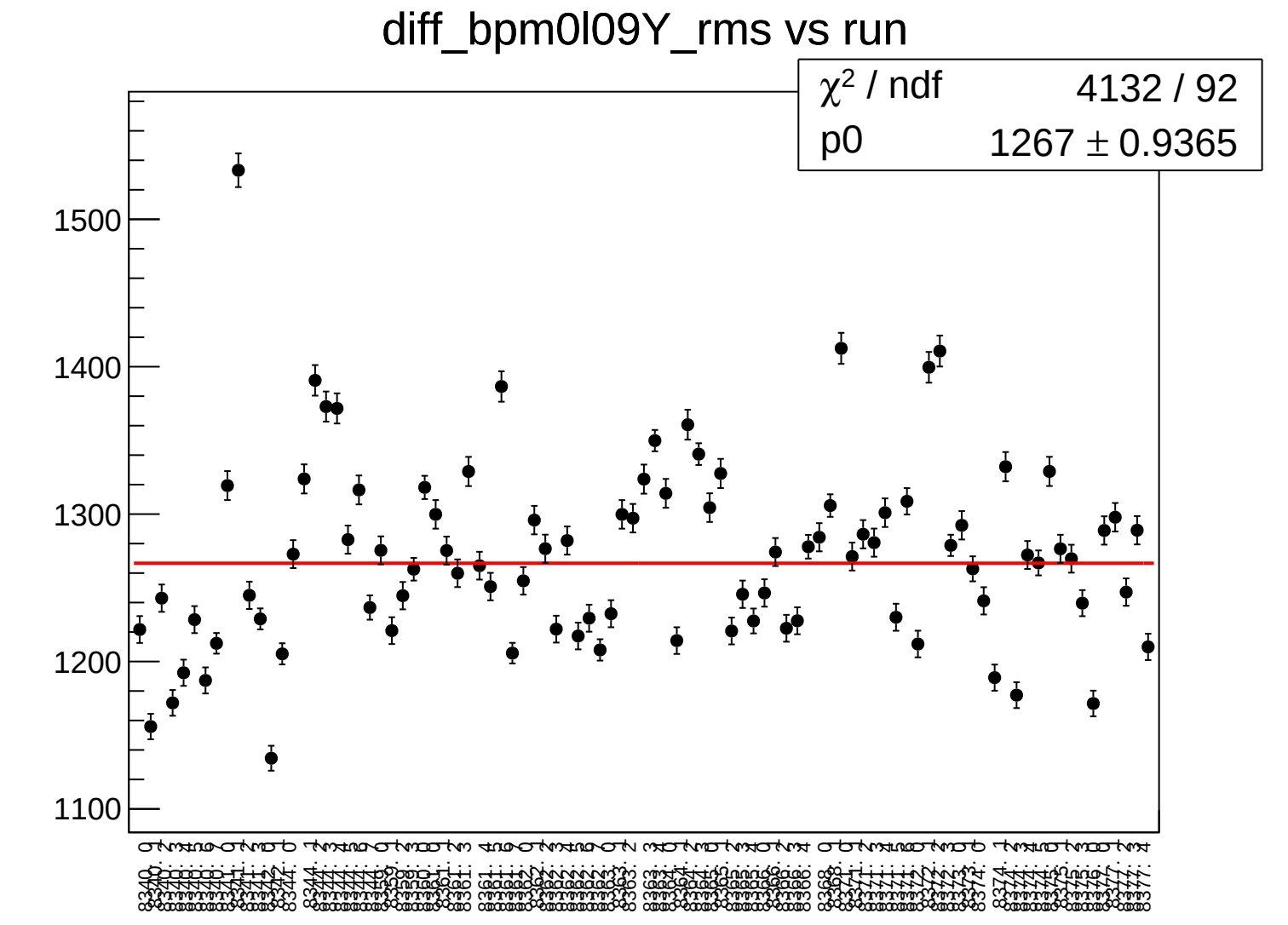

pull1D
Entries 93
Mean 0.02034
Std Dev 0.8944

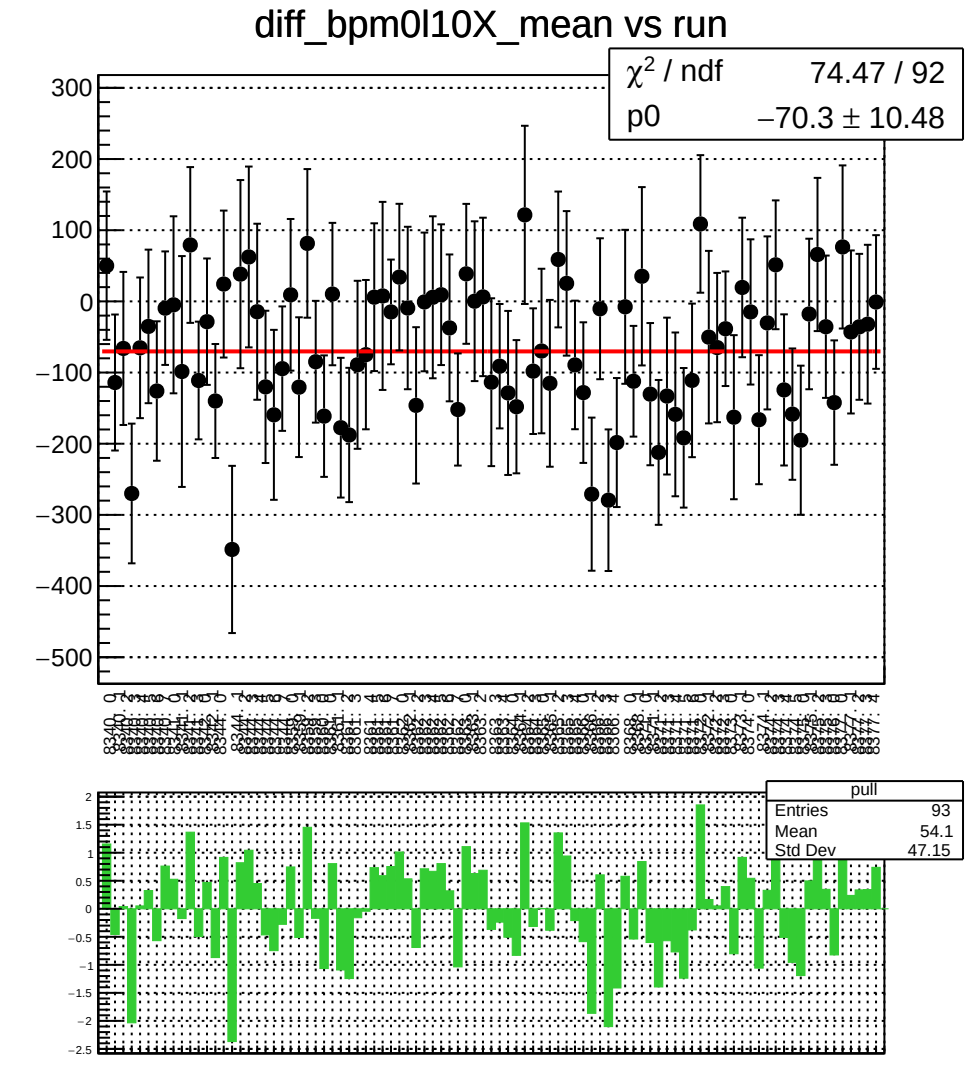
diff_bpm0l09X_rms vs run

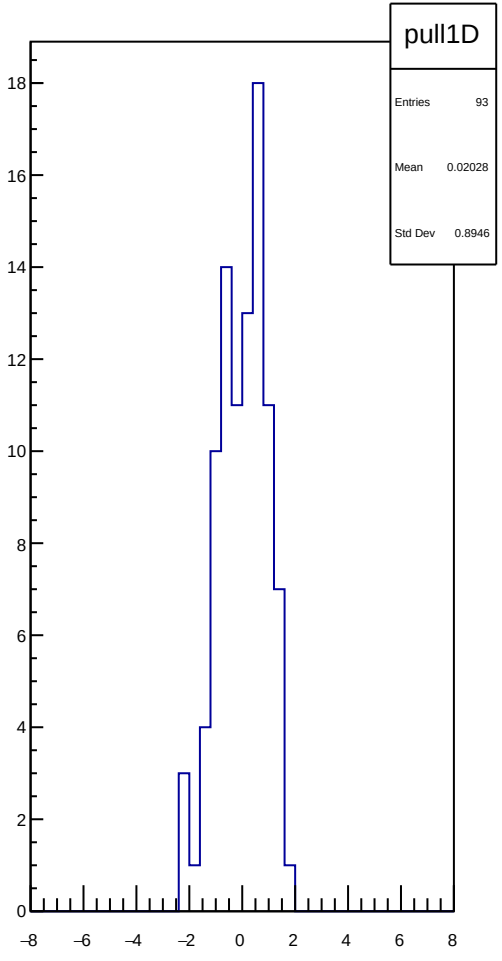


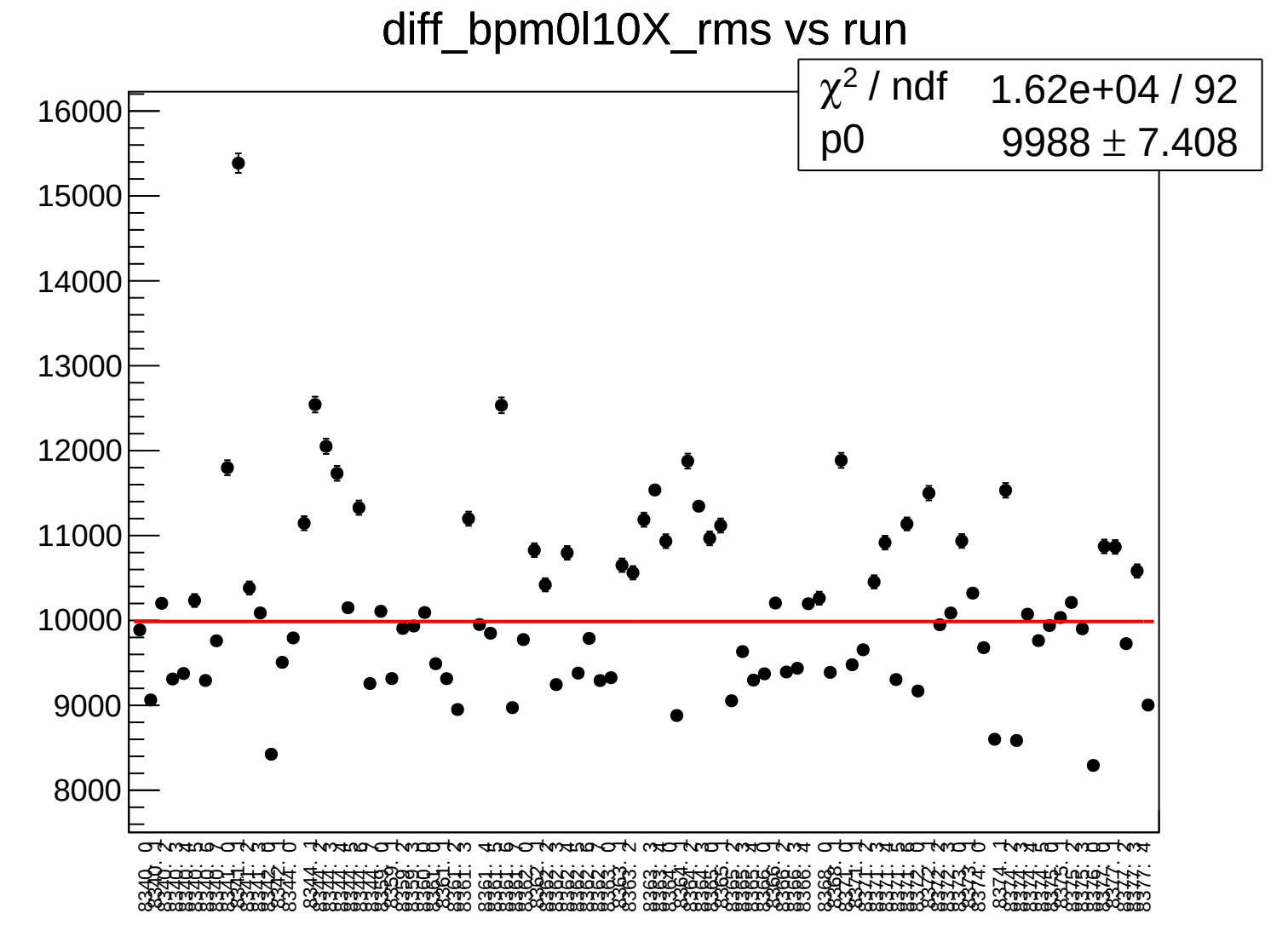

diff_bpm0l09Y_mean vs run
χ² / ndf 215.3 / 92
p0 −20.3 ± 1.324
pull
Entries 93
Mean 8446
Std Dev 0

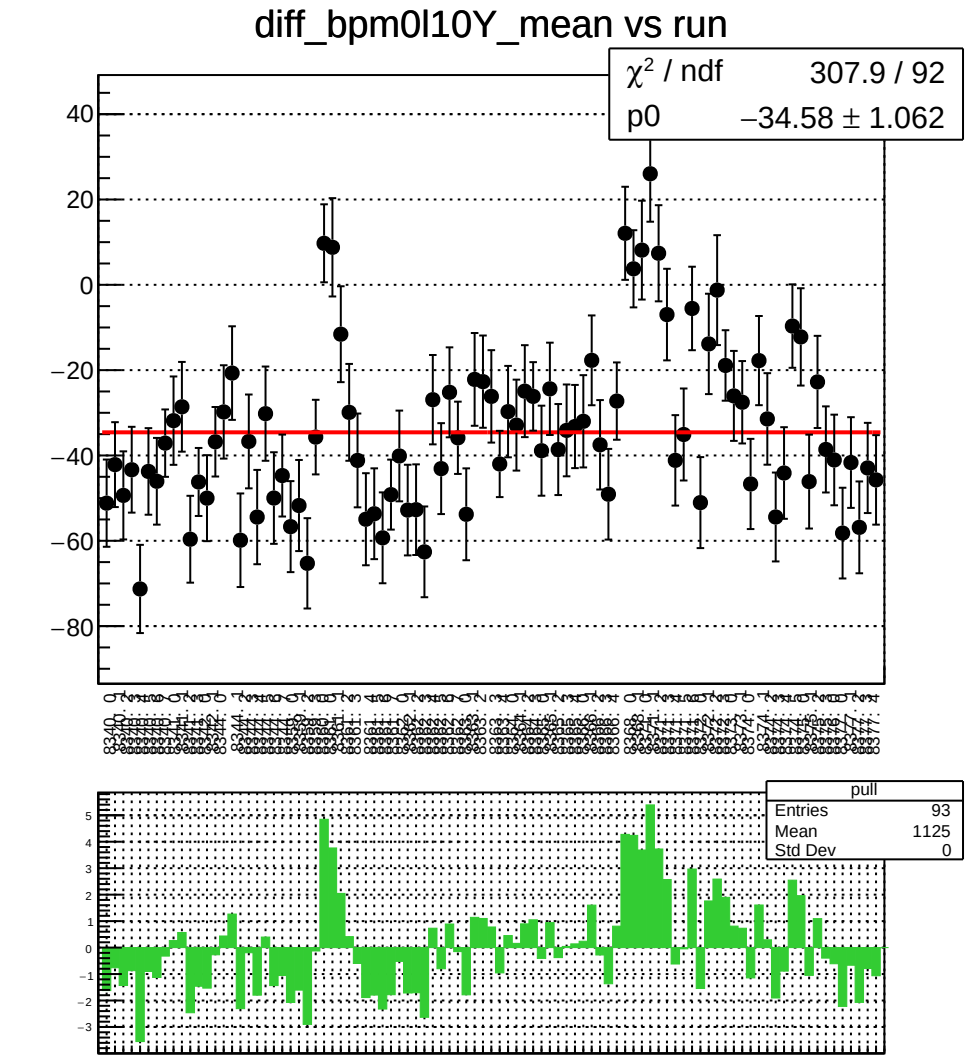

pull1D
Entries 93
Mean 0.001105
Std Dev 1.522

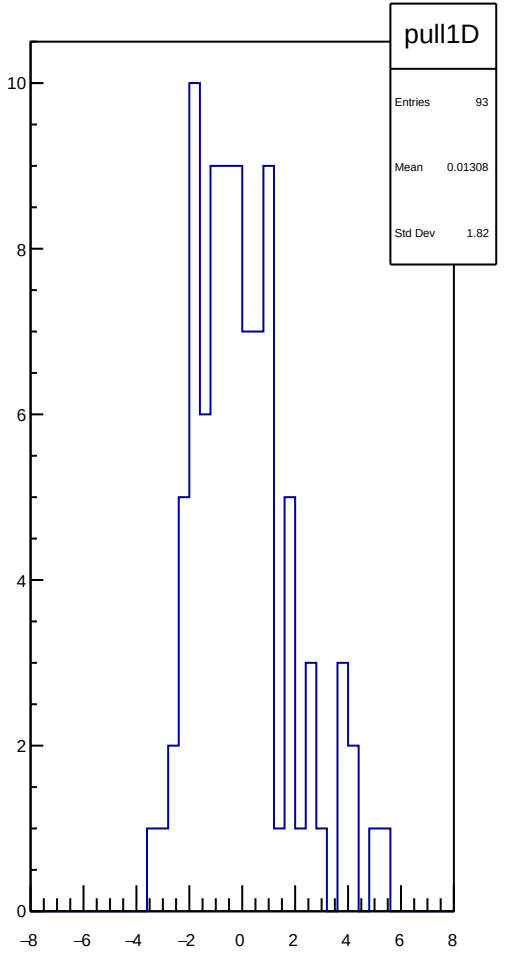

diff_bpm0l09Y_rms vs run
χ² / ndf 4132 / 92
p0 1267 ± 0.9365
1500
1400
1300
1200
1100

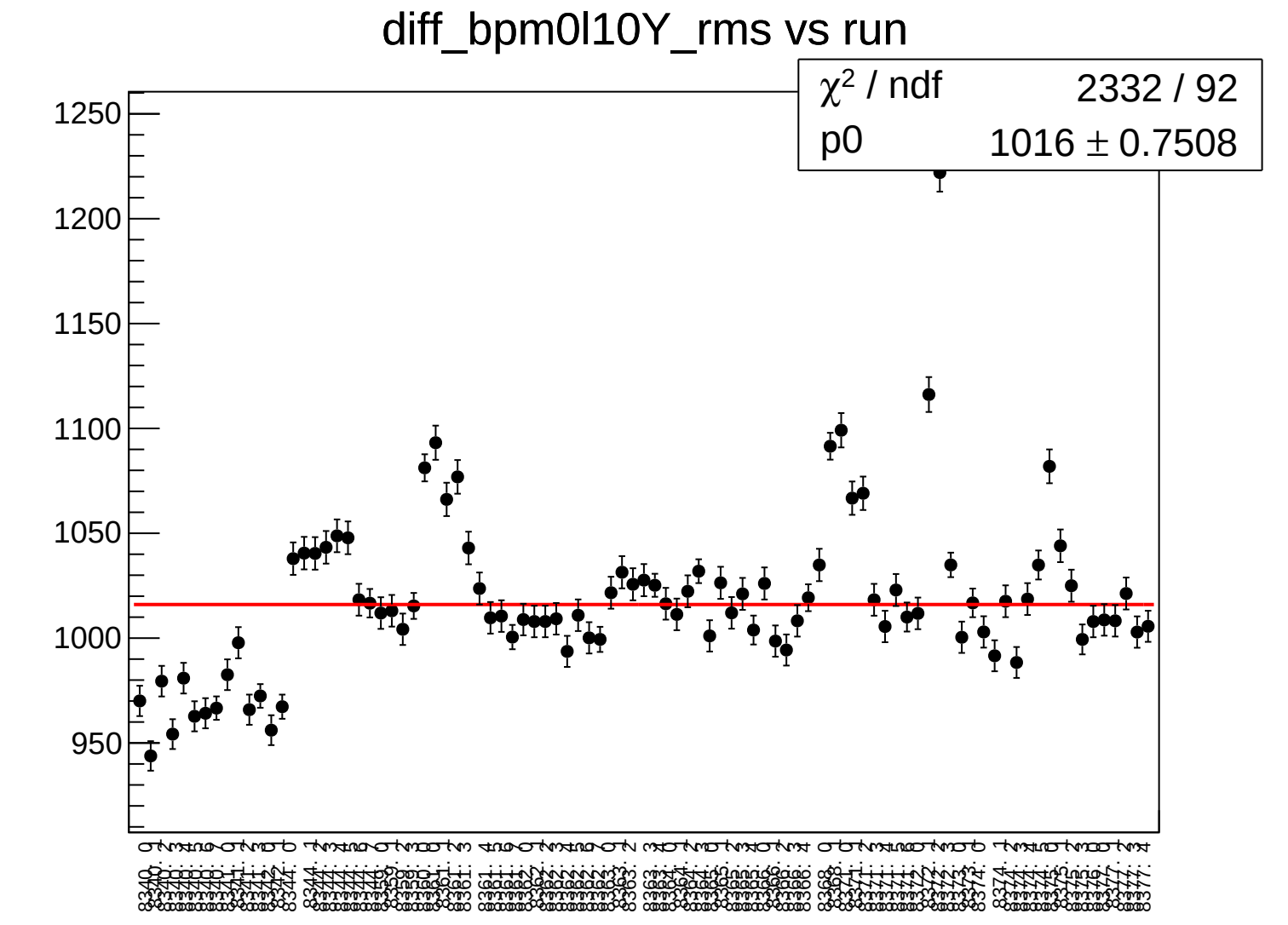

diff_bpm0l10X_mean vs run
χ² / ndf 74.47 / 92
p0 −70.3 ± 10.48
pull
Entries 93
Mean 54.1
Std Dev 47.15

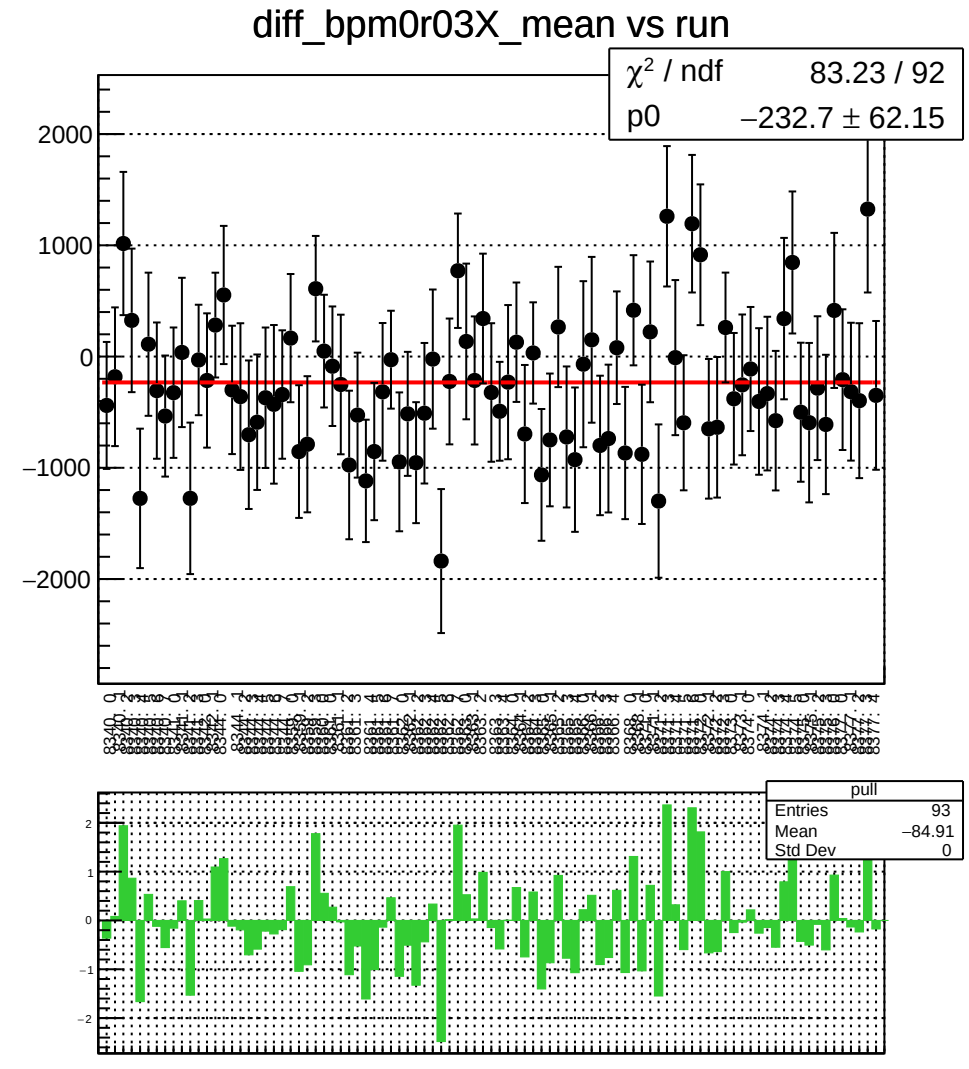

pull1D
Entries 93
Mean 0.02028
Std Dev 0.8946

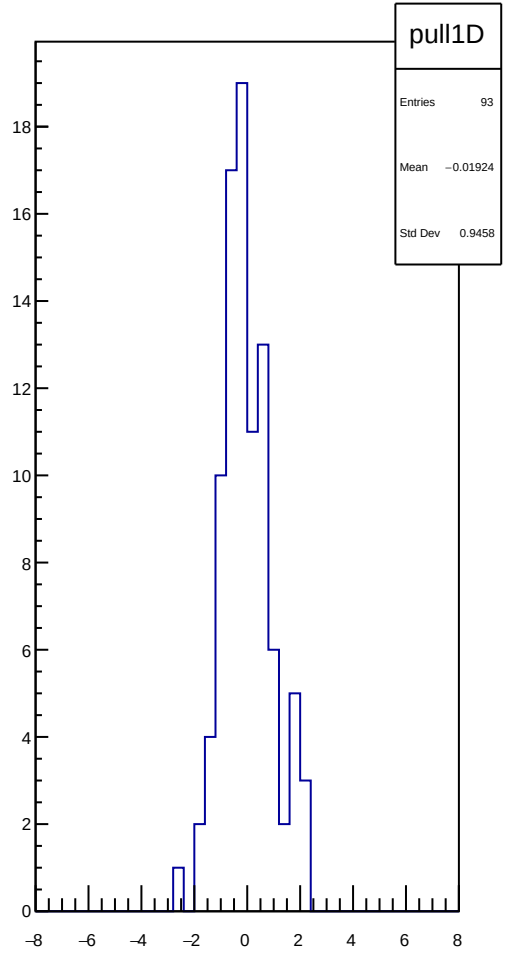

diff_bpm0l10X_rms vs run
χ² / ndf 1.62e+04 / 92
p0 9988 ± 7.408
16000
15000
14000
13000
12000
11000
10000
9000
8000

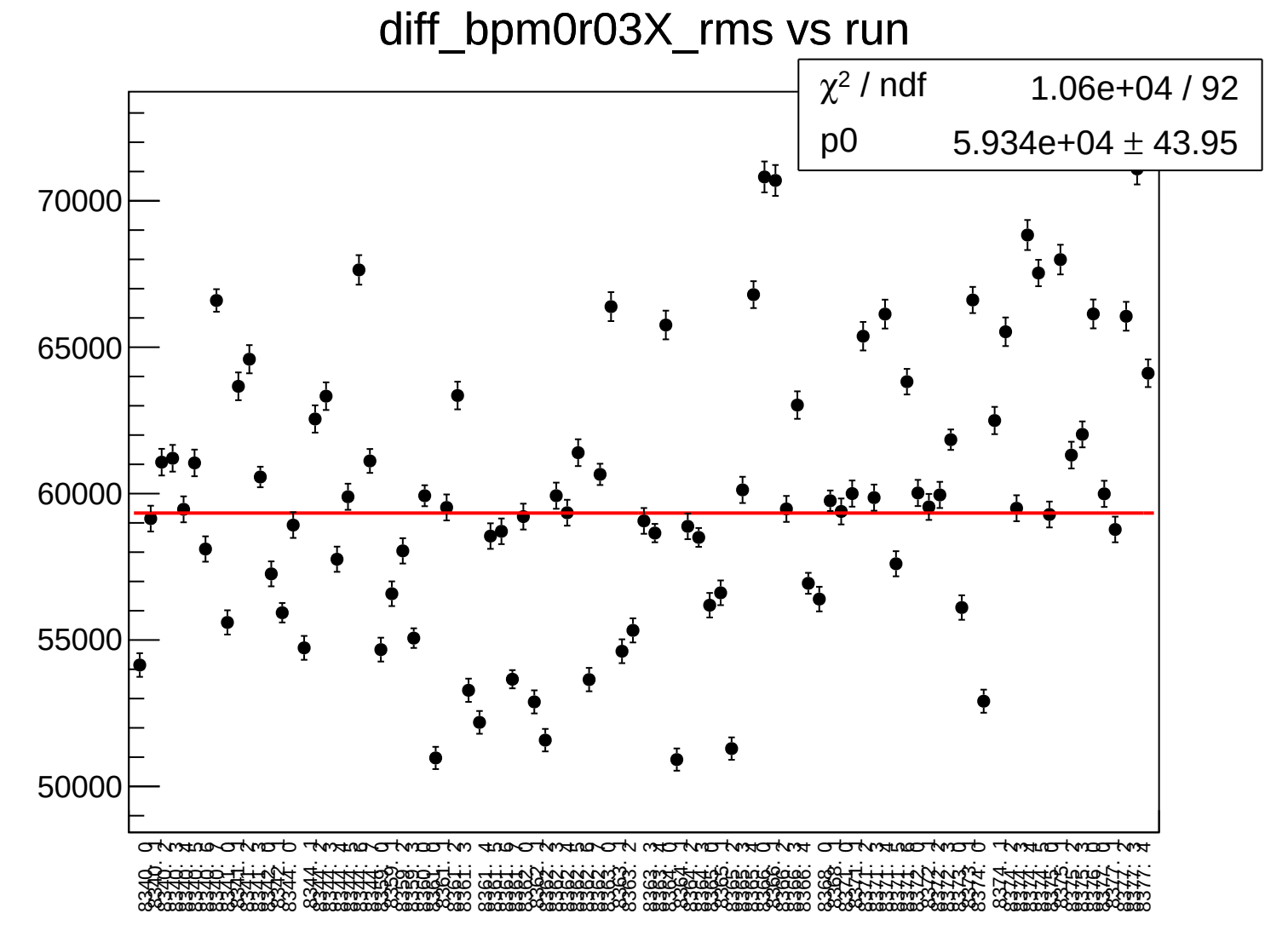

diff_bpm0l10Y_mean vs run
χ² / ndf 307.9 / 92
p0 −34.58 ± 1.062
pull
Entries 93
Mean 1125
Std Dev 0

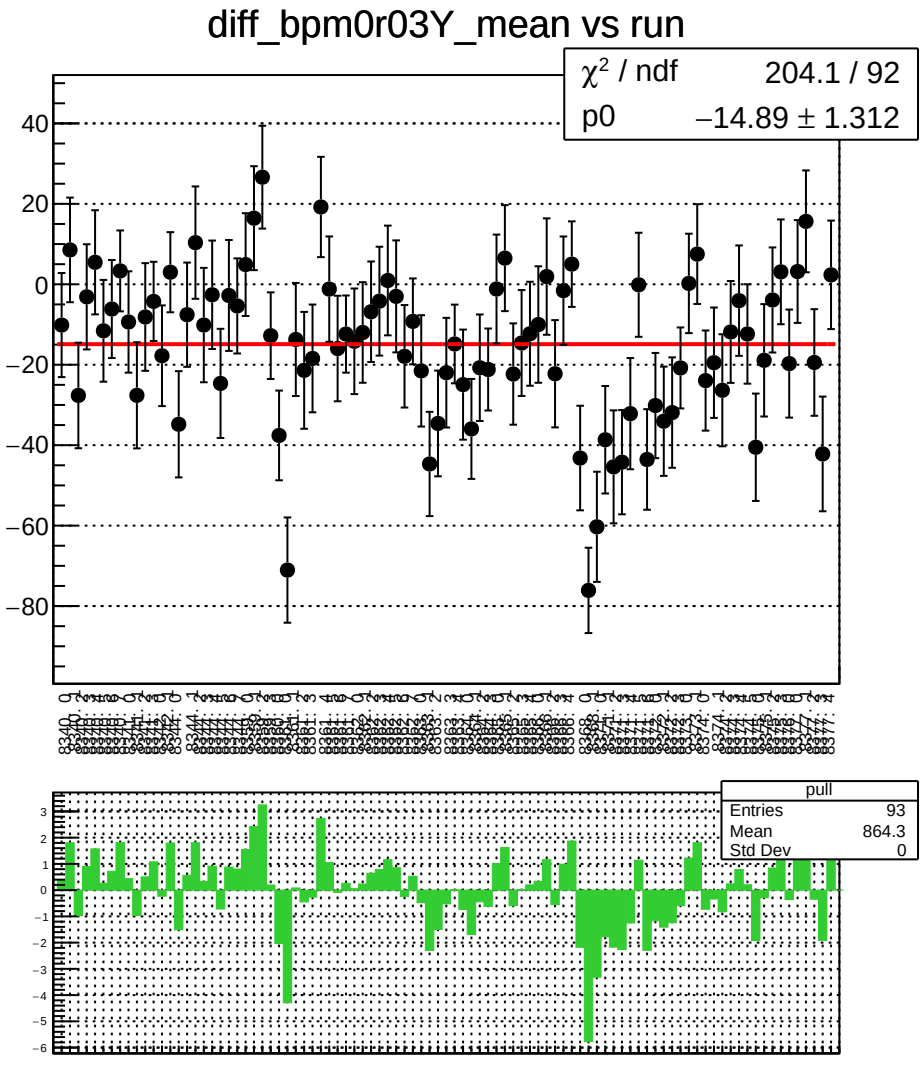

pull1D
Entries 93
Mean 0.01308
Std Dev 1.82

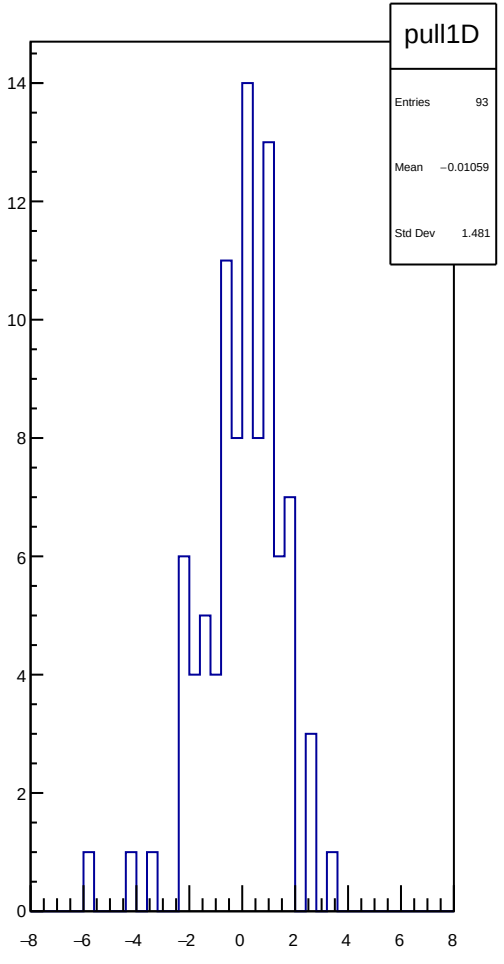

diff_bpm0l10Y_rms vs run
χ² / ndf 2332 / 92
p0 1016 ± 0.7508
1250
1200
1150
1100
1050
1000
950

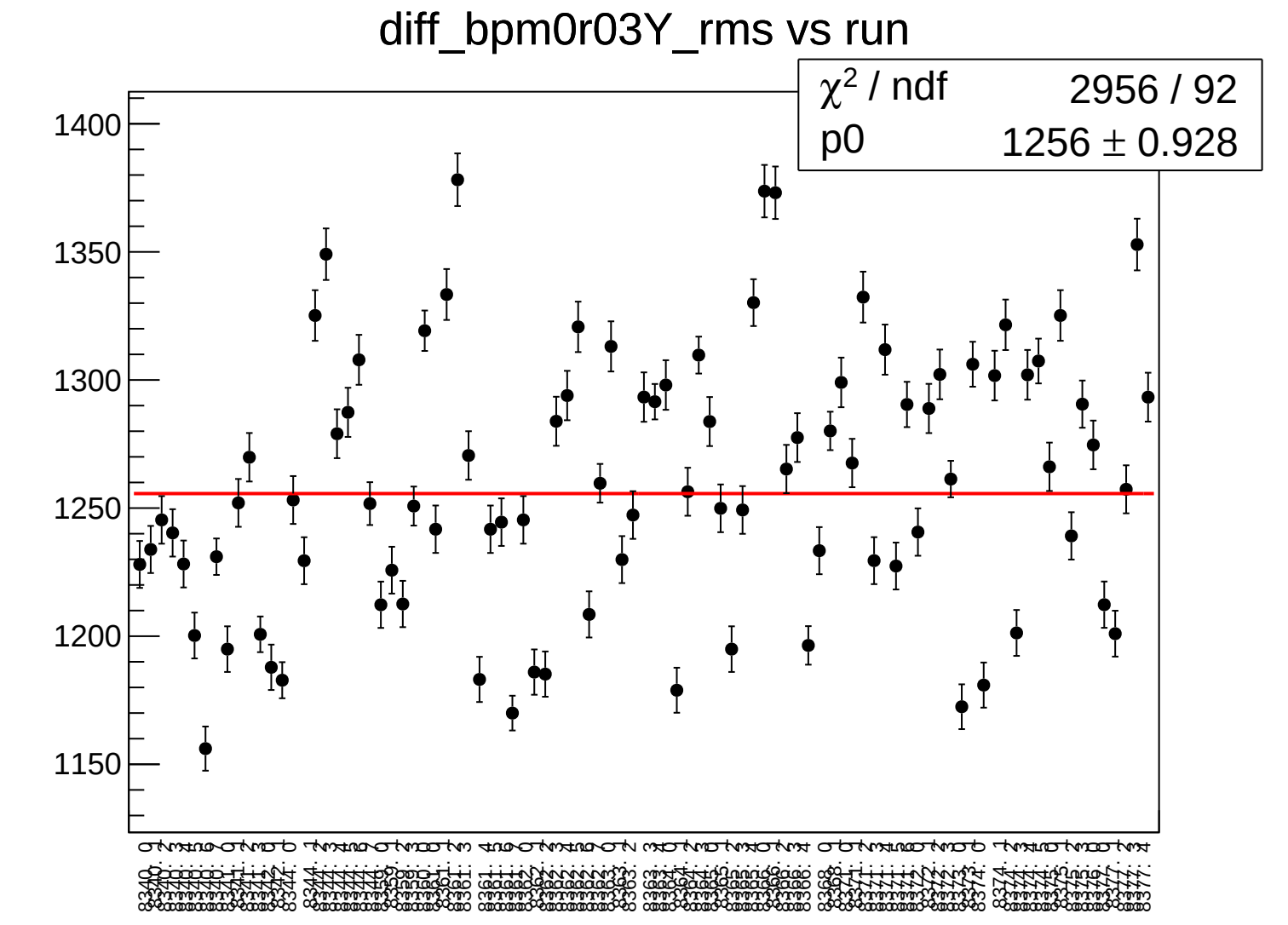

diff_bpm0r03X_mean vs run
χ² / ndf 83.23 / 92
p0 −232.7 ± 62.15
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −84.91
Std Dev 0
2
1
0
−1
−2

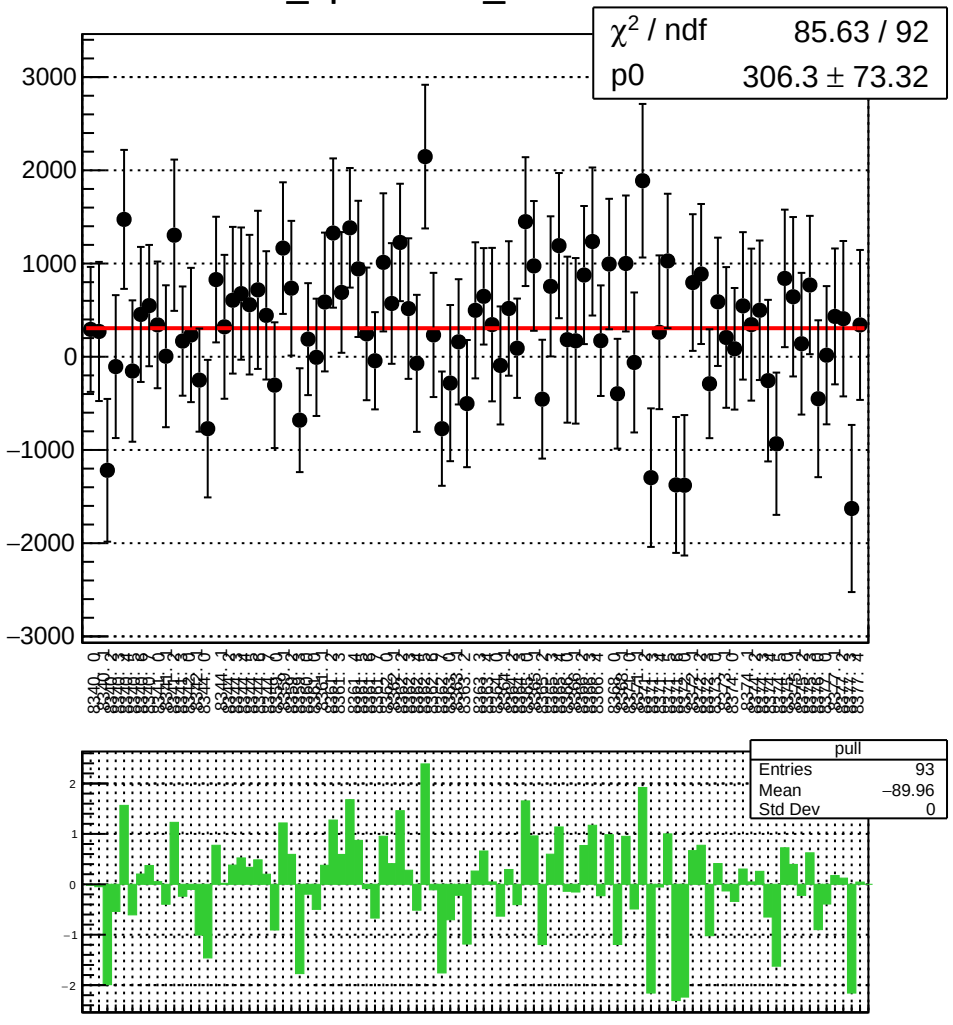

pull1D
Entries 93
Mean −0.01924
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

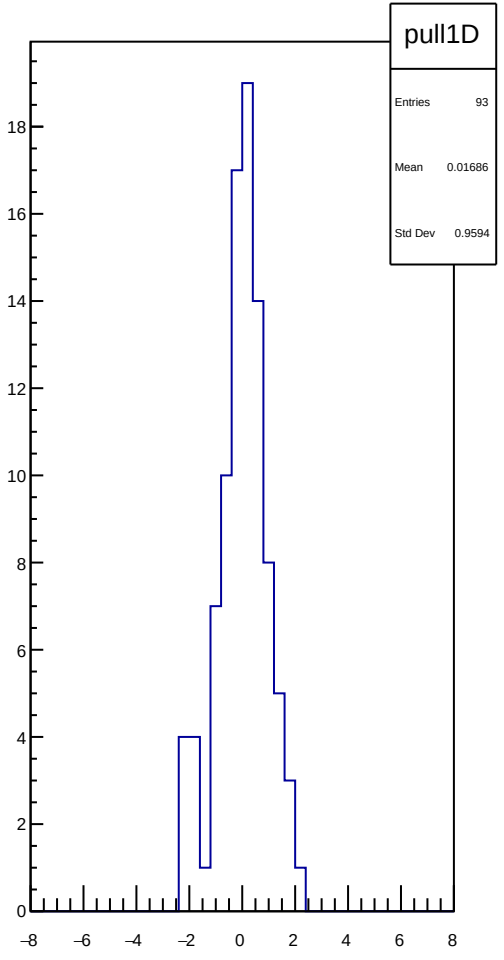

diff_bpm0r03X_rms vs run
χ² / ndf 1.06e+04 / 92
p0 5.934e+04 ± 43.95
70000
65000
60000
55000
50000

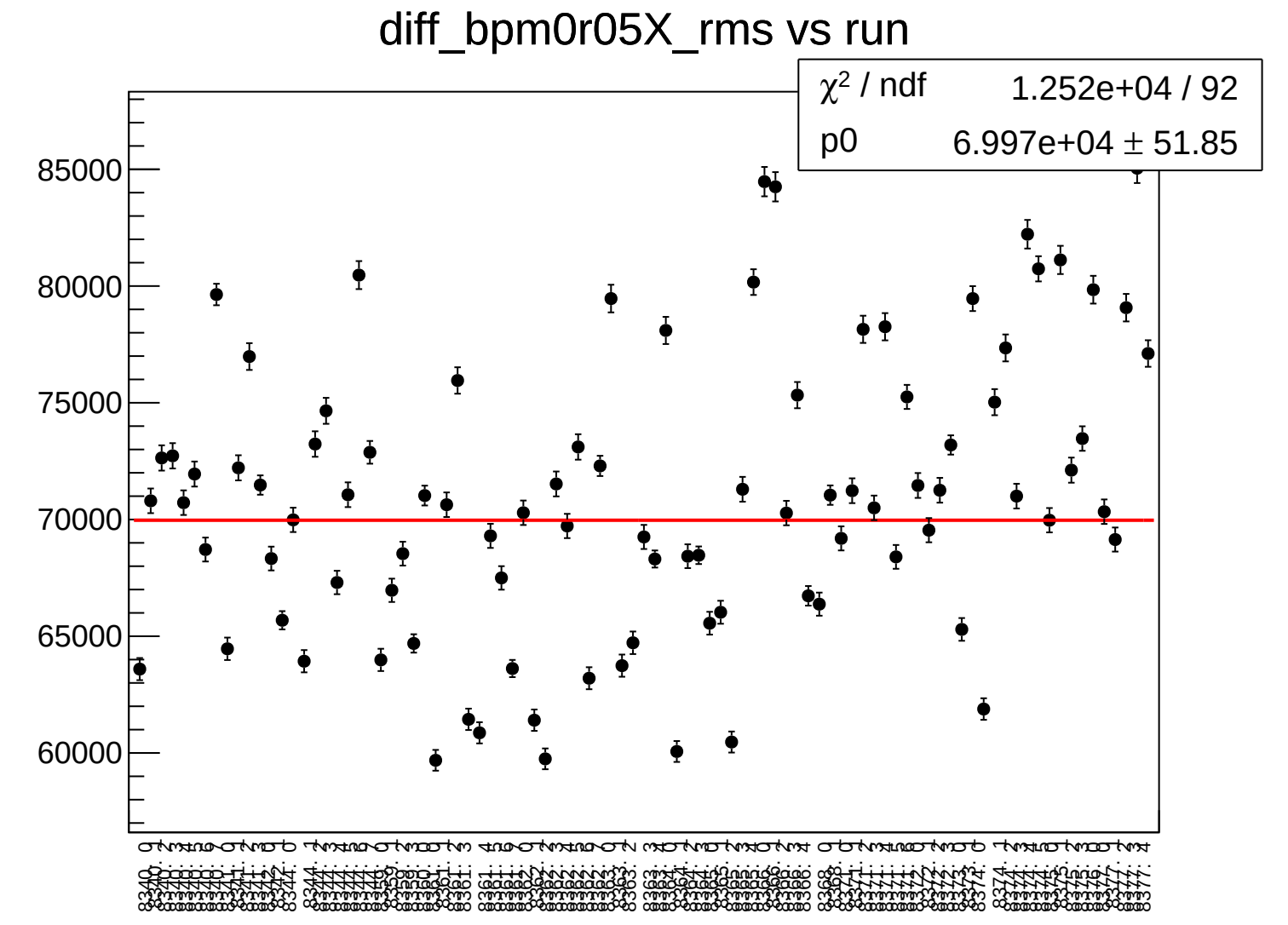

diff_bpm0r03Y_mean vs run
χ² / ndf 204.1 / 92
p0 −14.89 ± 1.312
pull
Entries 93
Mean 864.3
Std Dev 0

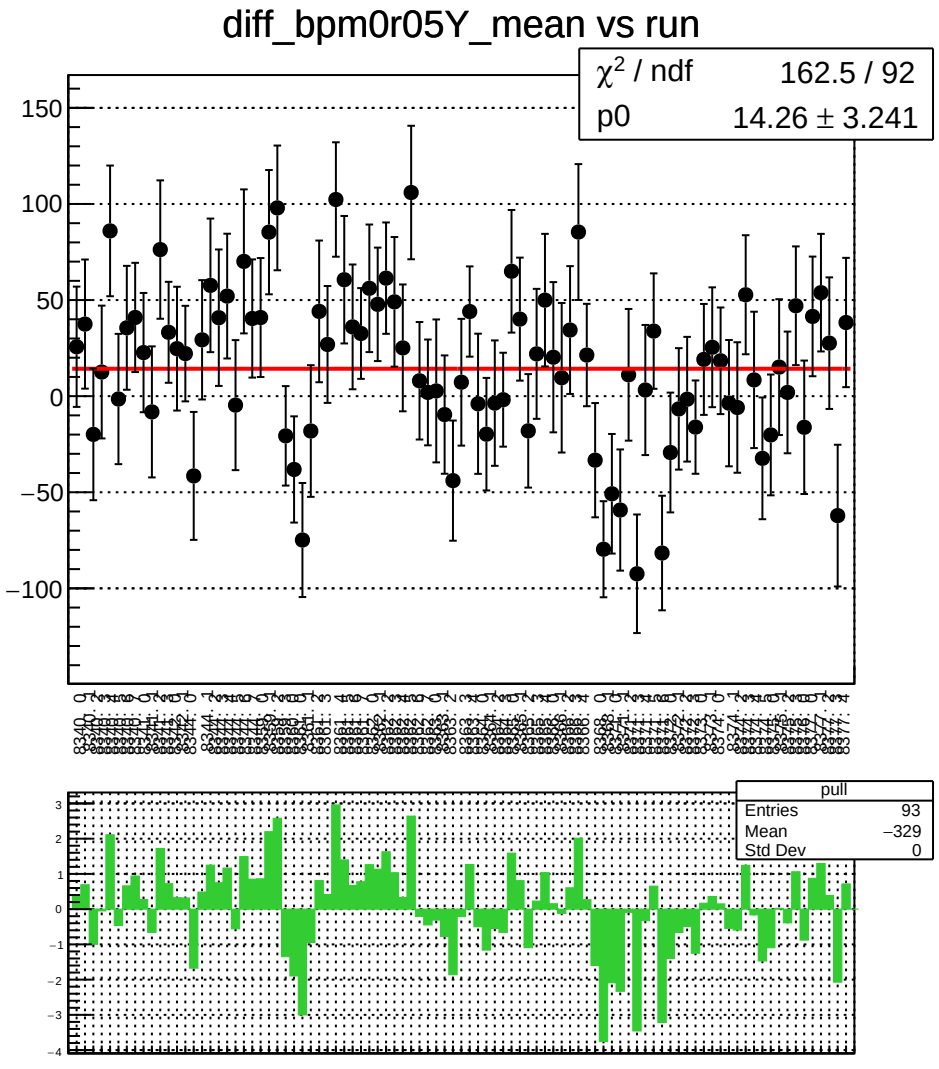

pull1D
Entries 93
Mean −0.01059
Std Dev 1.481

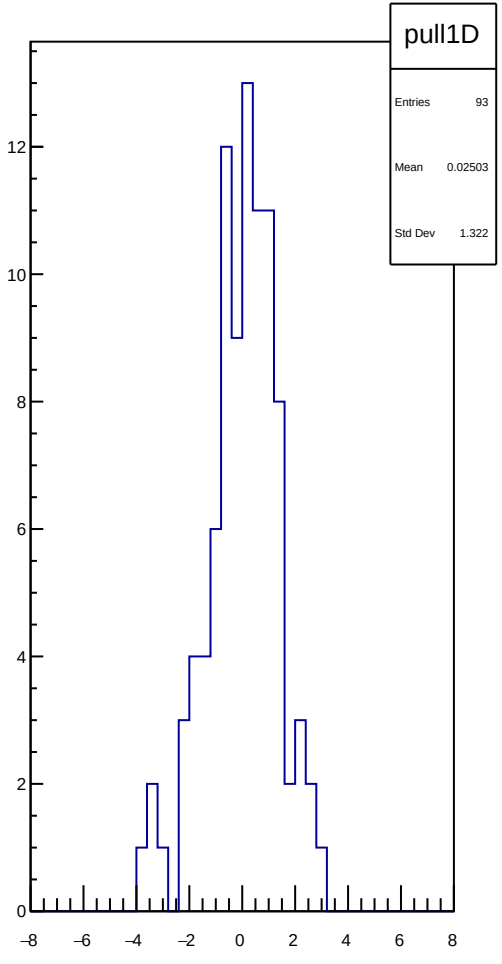

diff_bpm0r03Y_rms vs run
χ² / ndf 2956 / 92
p0 1256 ± 0.928
1400
1350
1300
1250
1200
1150

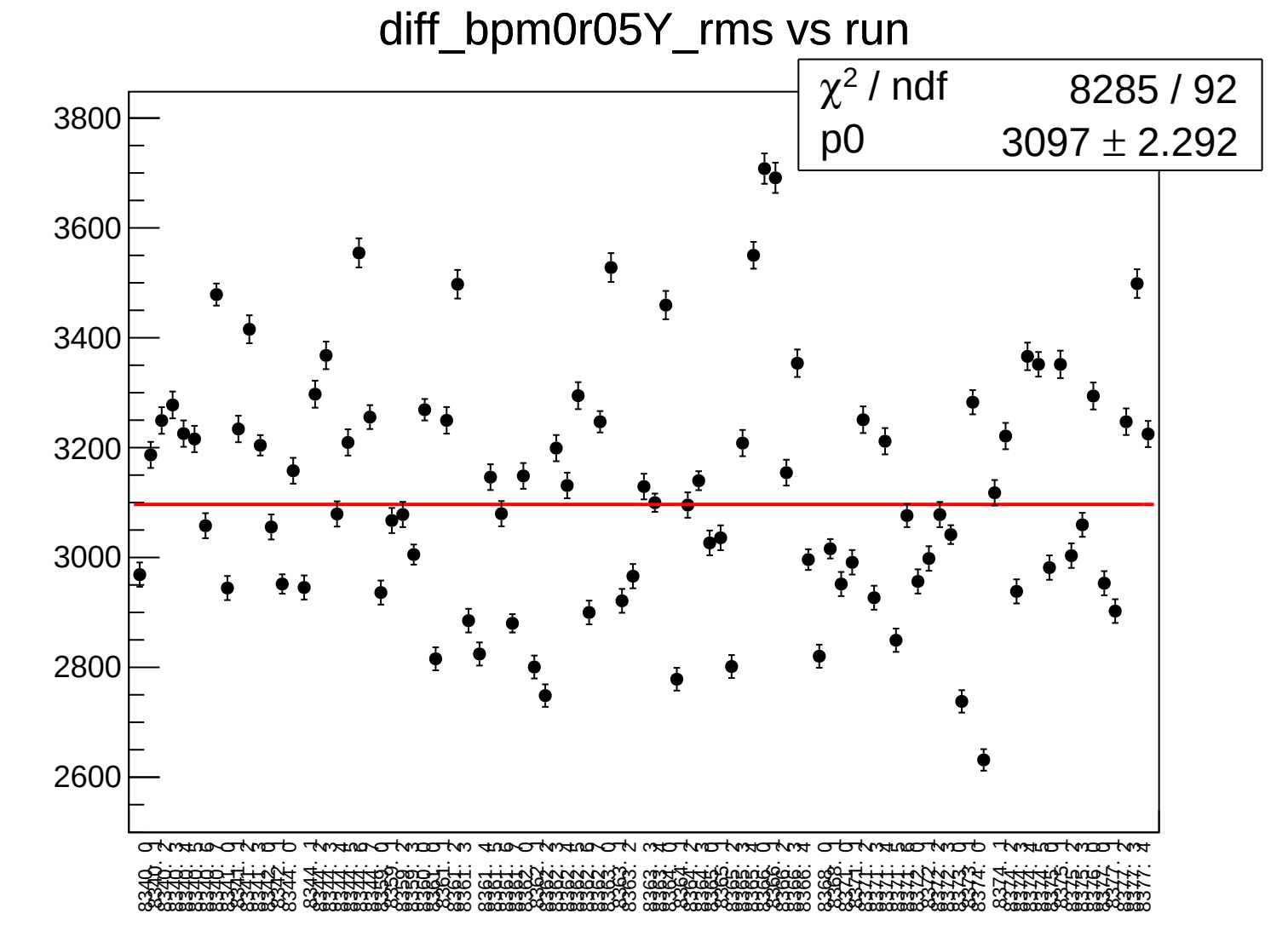

diff_bpm0r05X_mean vs run
χ^2 / ndf 85.63 / 92
p0 306.3 ± 73.32
pull
Entries 93
Mean −89.96
Std Dev 0

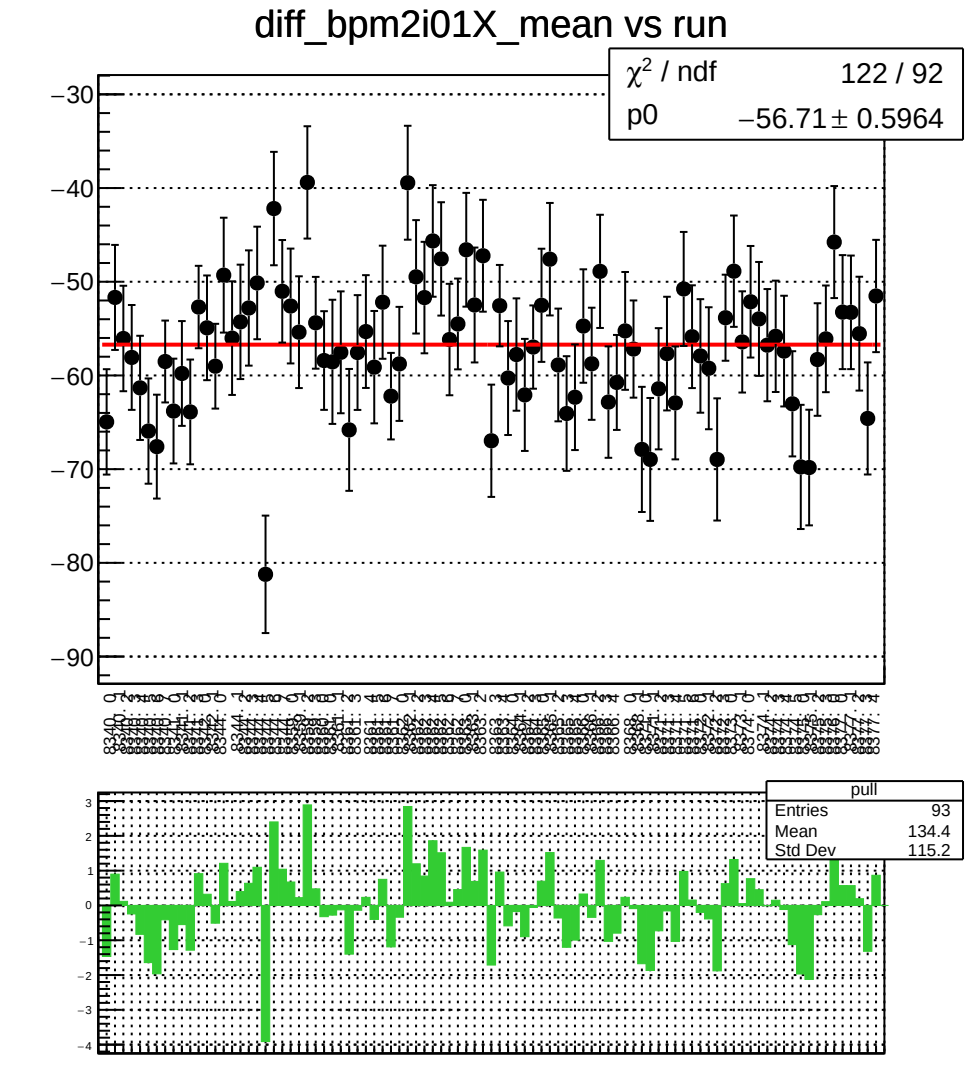

pull1D
Entries 93
Mean 0.01686
Std Dev 0.9594

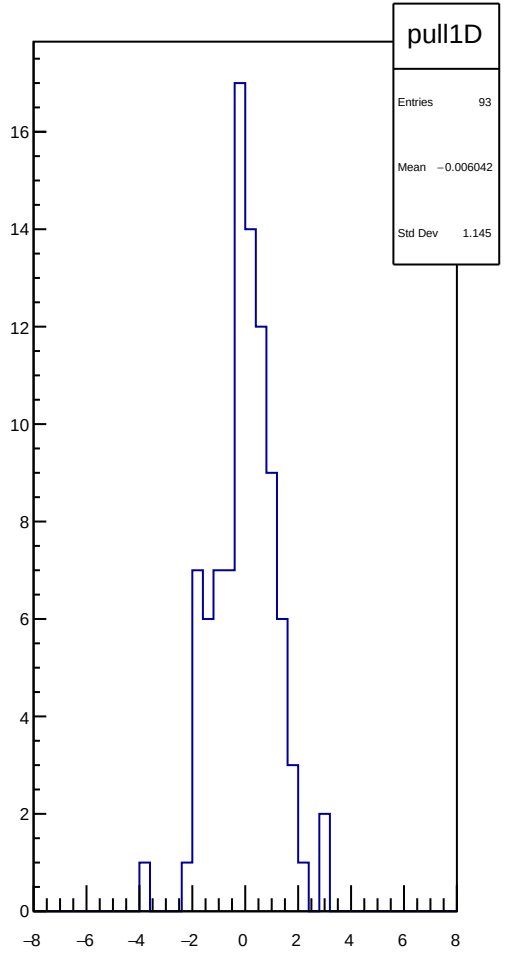

diff_bpm0r05X_rms vs run
χ² / ndf 1.252e+04 / 92
p0 6.997e+04 ± 51.85
85000
80000
75000
70000
65000
60000

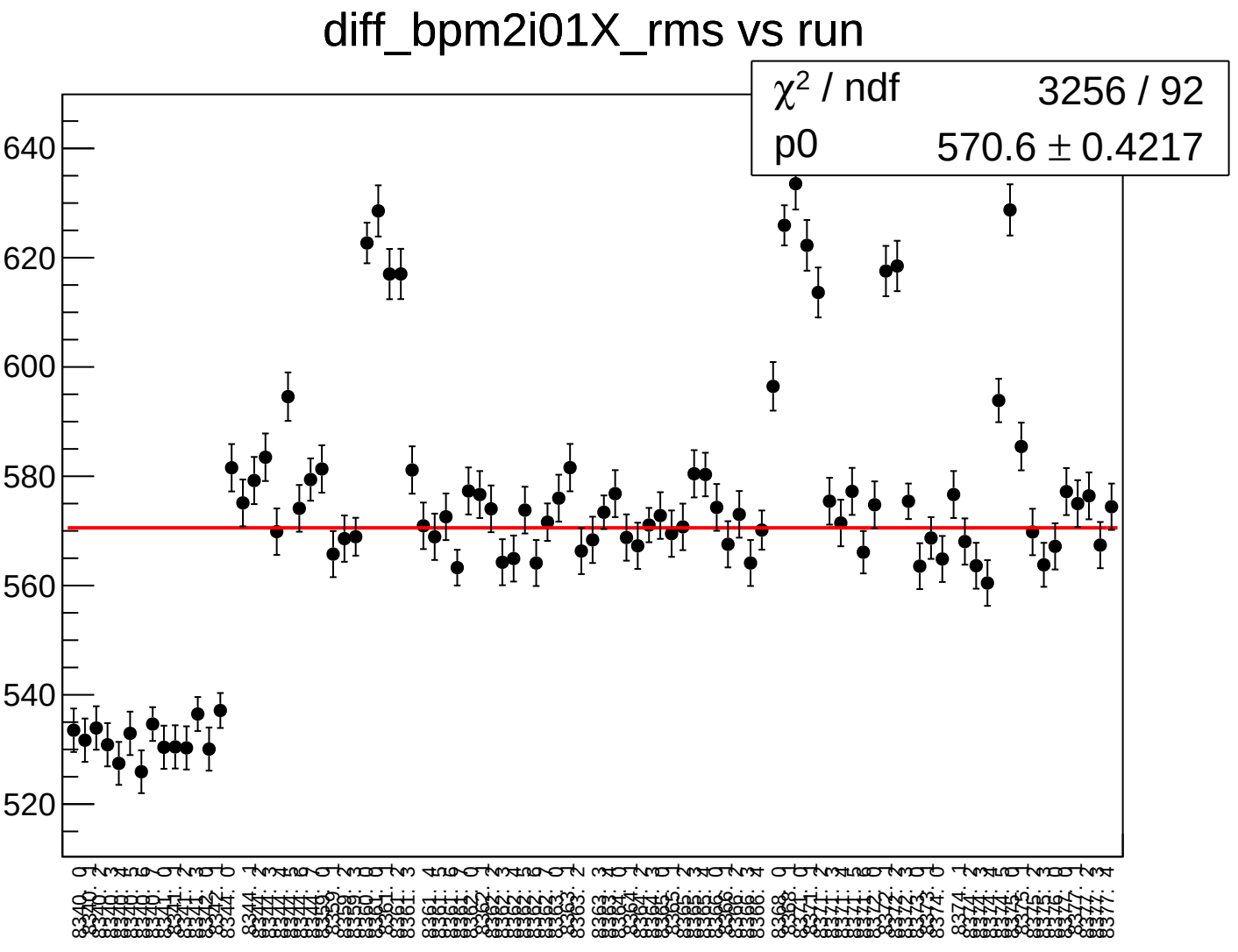

diff_bpm0r05Y_mean vs run
χ² / ndf 162.5 / 92
p0 14.26 ± 3.241
150
100
50
0
−50
−100
pull
Entries 93
Mean −329
Std Dev 0
3
2
1
0
−1
−2
−3
−4

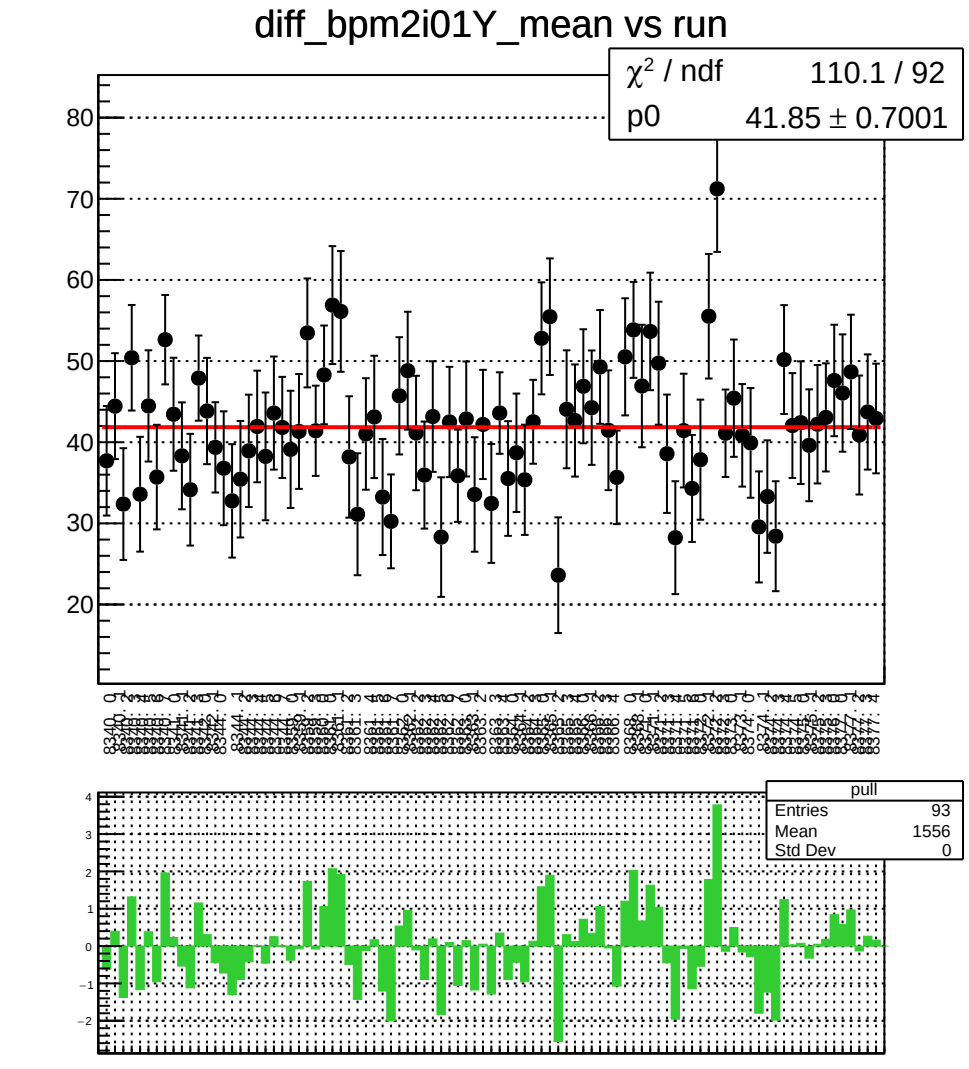

pull1D
Entries 93
Mean 0.02503
Std Dev 1.322
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

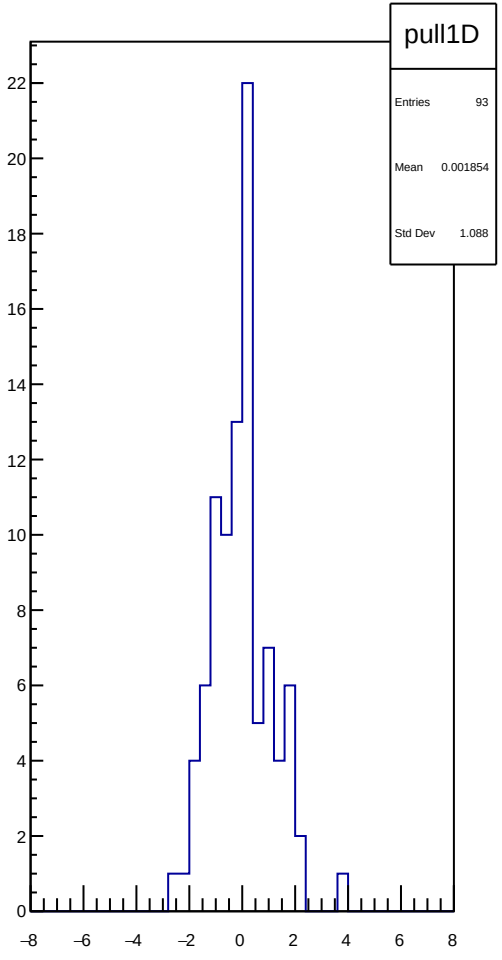

diff_bpm0r05Y_rms vs run
χ² / ndf 8285 / 92
p0 3097 ± 2.292
3800
3600
3400
3200
3000
2800
2600

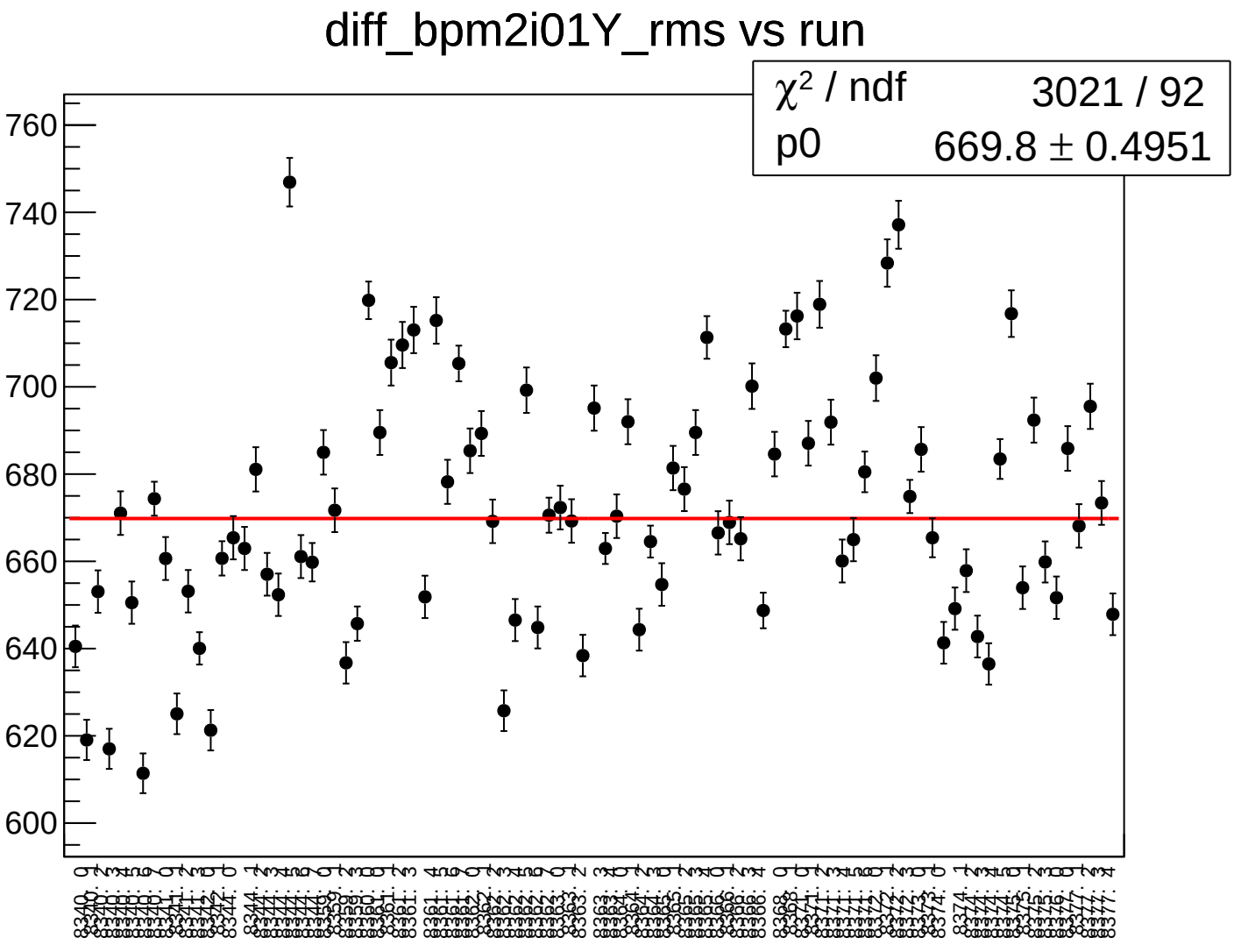

diff_bpm2i01X_mean vs run
χ² / ndf 122 / 92
p0 −56.71 ± 0.5964
pull
Entries 93
Mean 134.4
Std Dev 115.2

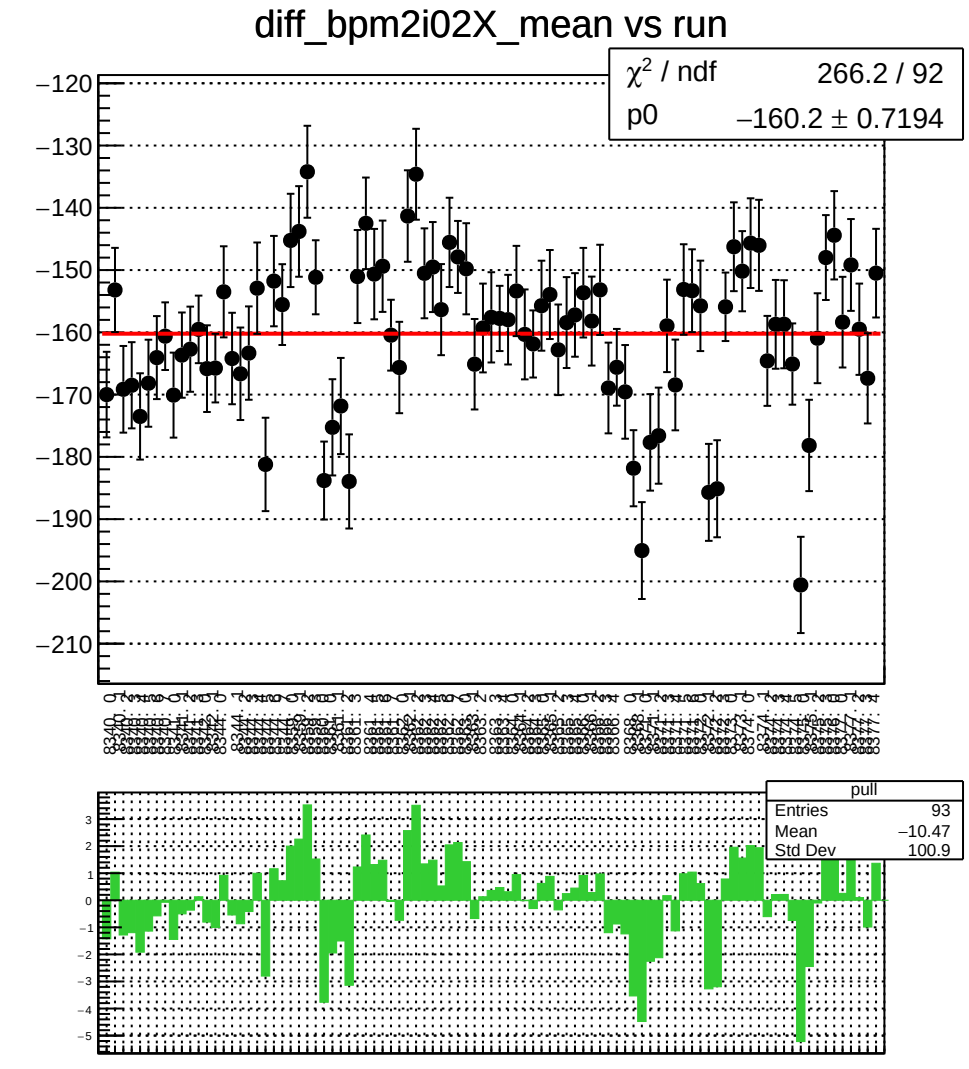

pull1D
Entries 93
Mean −0.006042
Std Dev 1.145

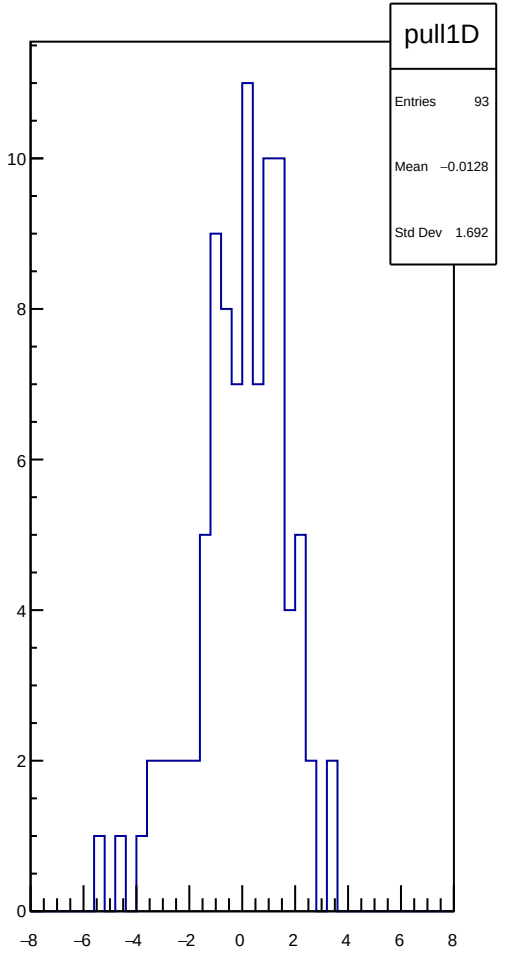

diff_bpm2i01X_rms vs run
χ² / ndf 3256 / 92
p0 570.6 ± 0.4217
640
620
600
580
560
540
520

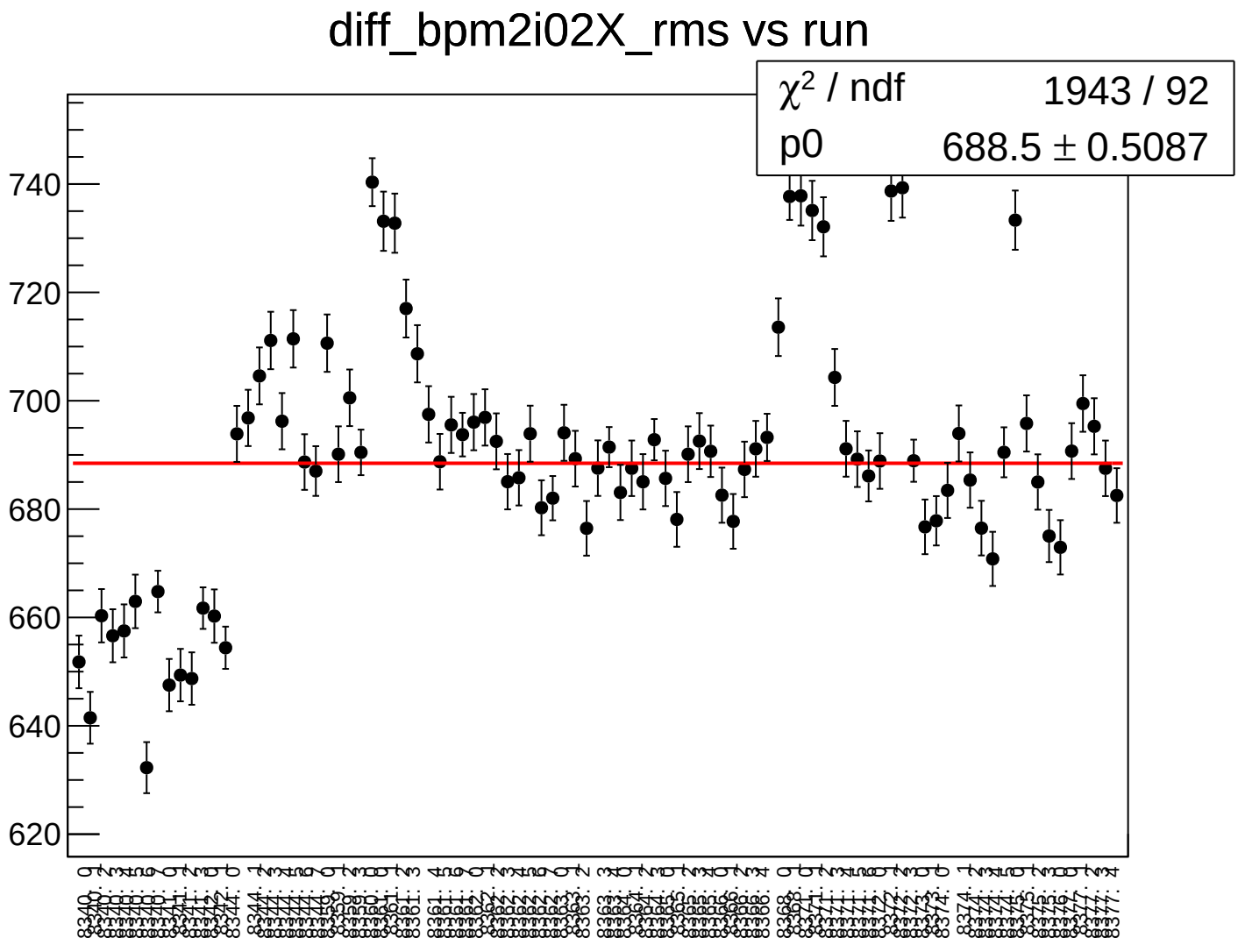

diff_bpm2i01Y_mean vs run
χ² / ndf 110.1 / 92
p0 41.85 ± 0.7001
pull
Entries 93
Mean 1556
Std Dev 0

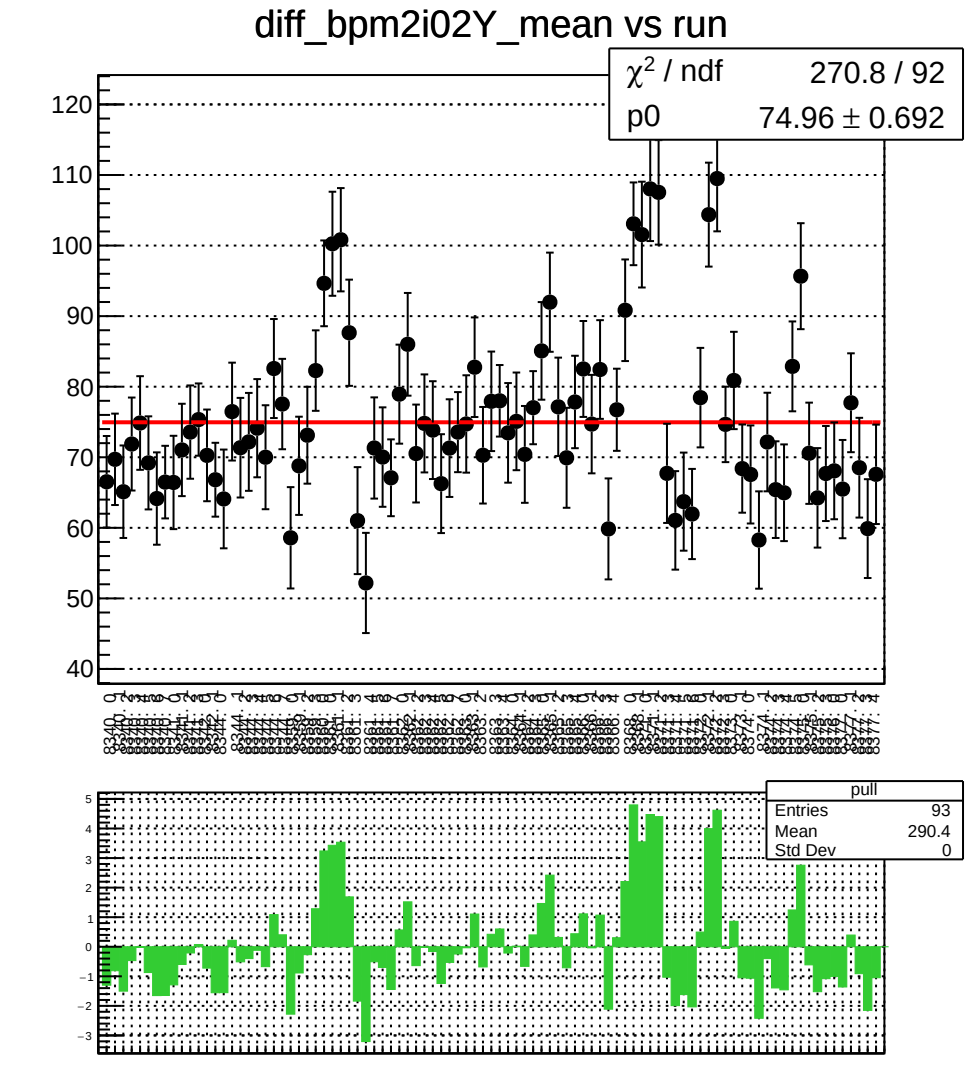

pull1D
Entries 93
Mean 0.001854
Std Dev 1.088

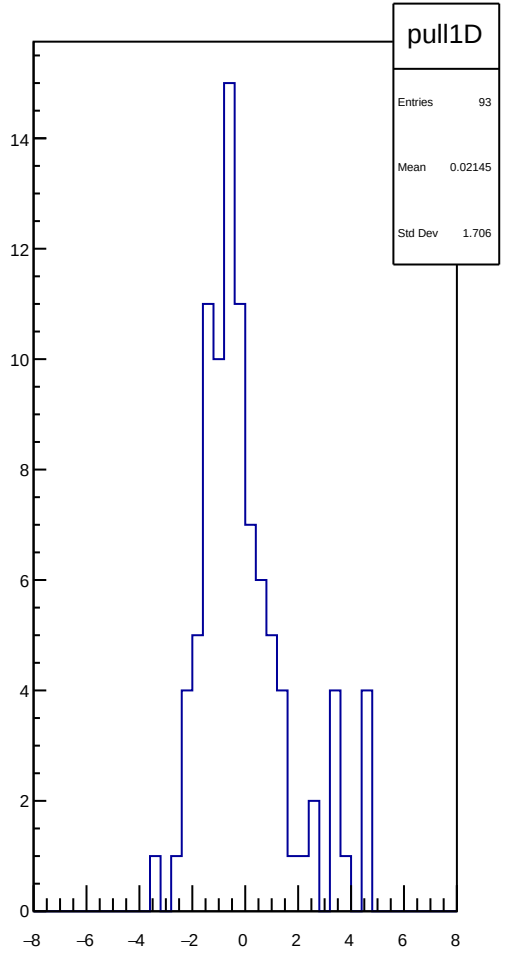

diff_bpm2i01Y_rms vs run
χ² / ndf 3021 / 92
p0 669.8 ± 0.4951
760
740
720
700
680
660
640
620
600

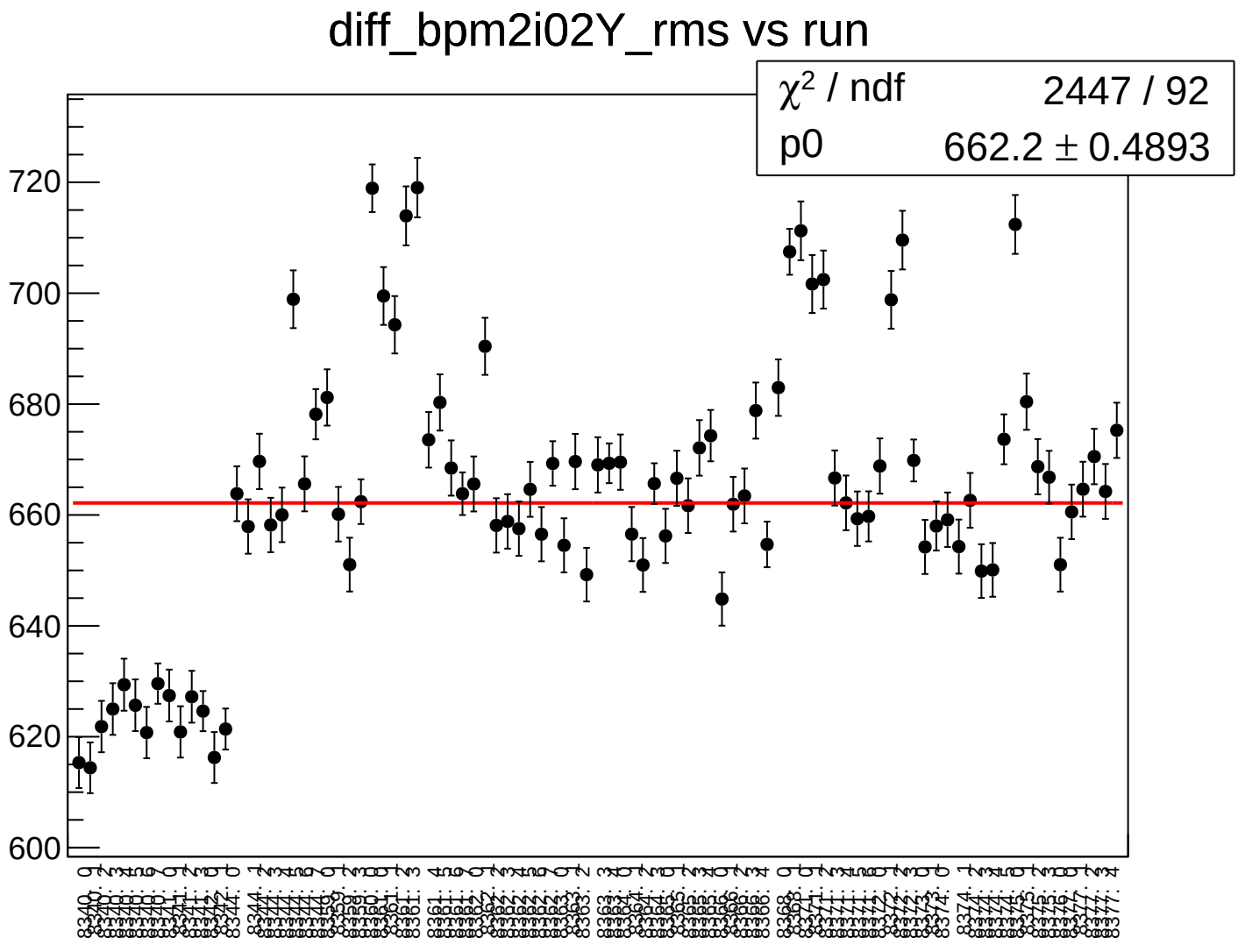

diff_bpm2i02X_mean vs run
χ² / ndf 266.2 / 92
p0 −160.2 ± 0.7194
pull
Entries 93
Mean −10.47
Std Dev 100.9

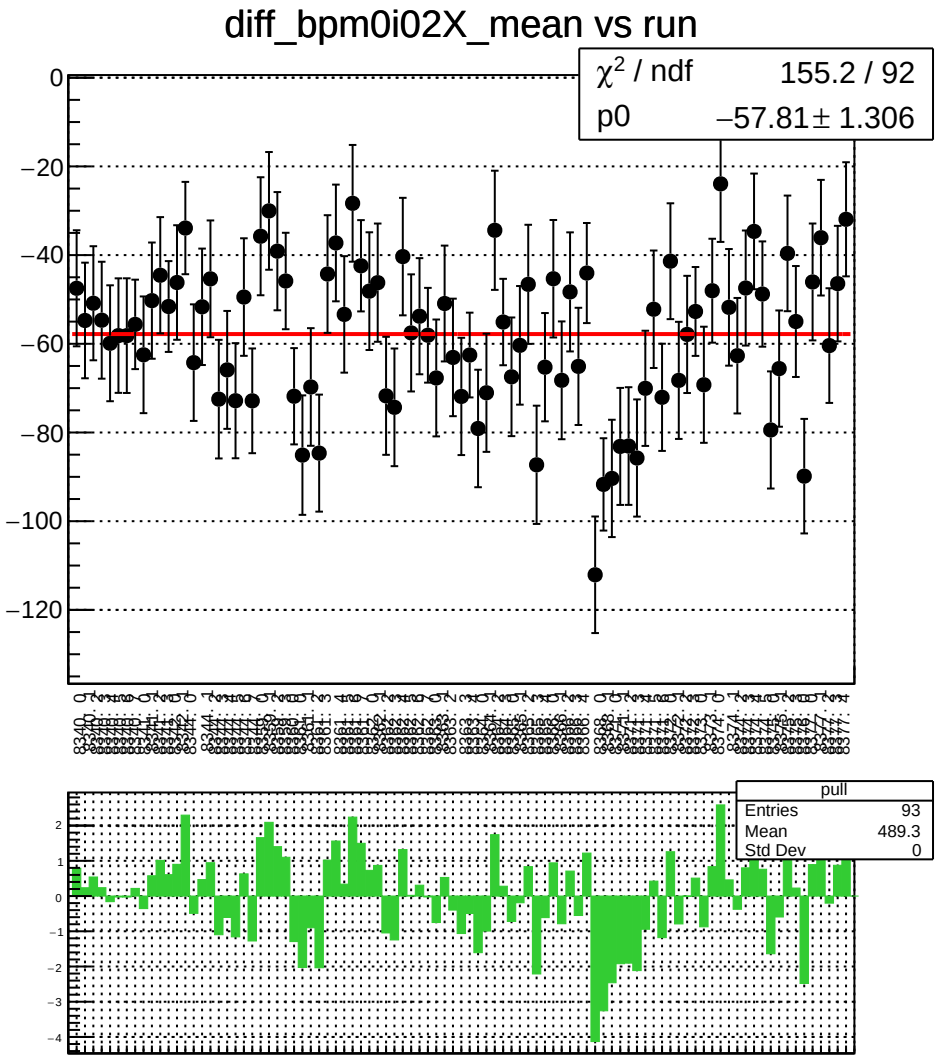

pull1D
Entries 93
Mean −0.0128
Std Dev 1.692

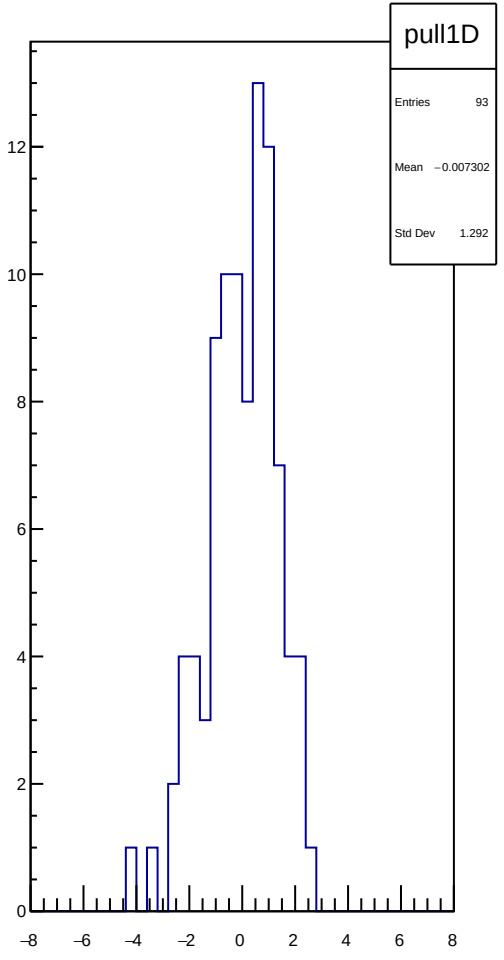

diff_bpm2i02X_rms vs run
χ² / ndf 1943 / 92
p0 688.5 ± 0.5087
740
720
700
680
660
640
620

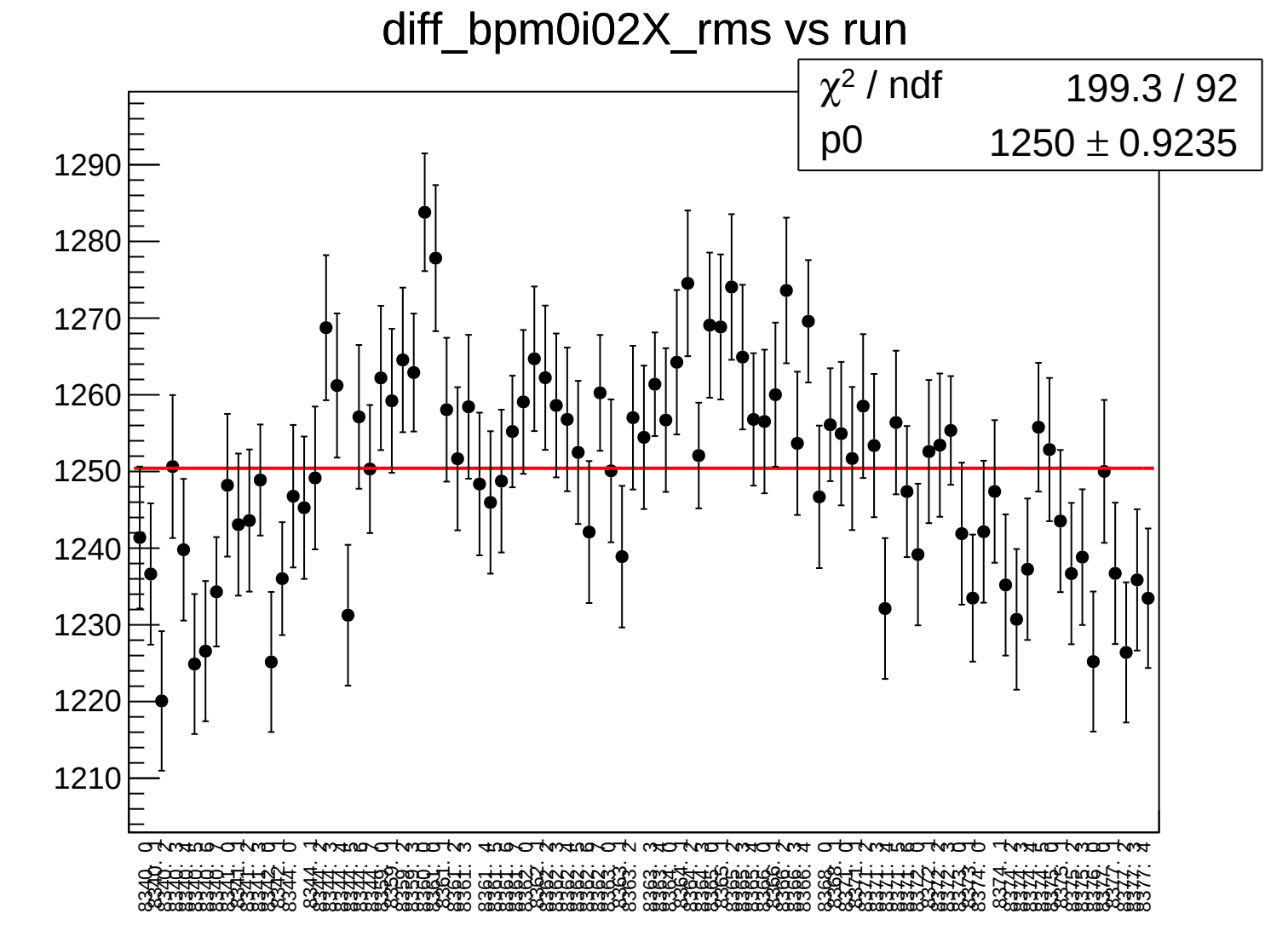

diff_bpm2i02Y_mean vs run
χ^2 / ndf 270.8 / 92
p0 74.96 ± 0.692
pull
Entries 93
Mean 290.4
Std Dev 0

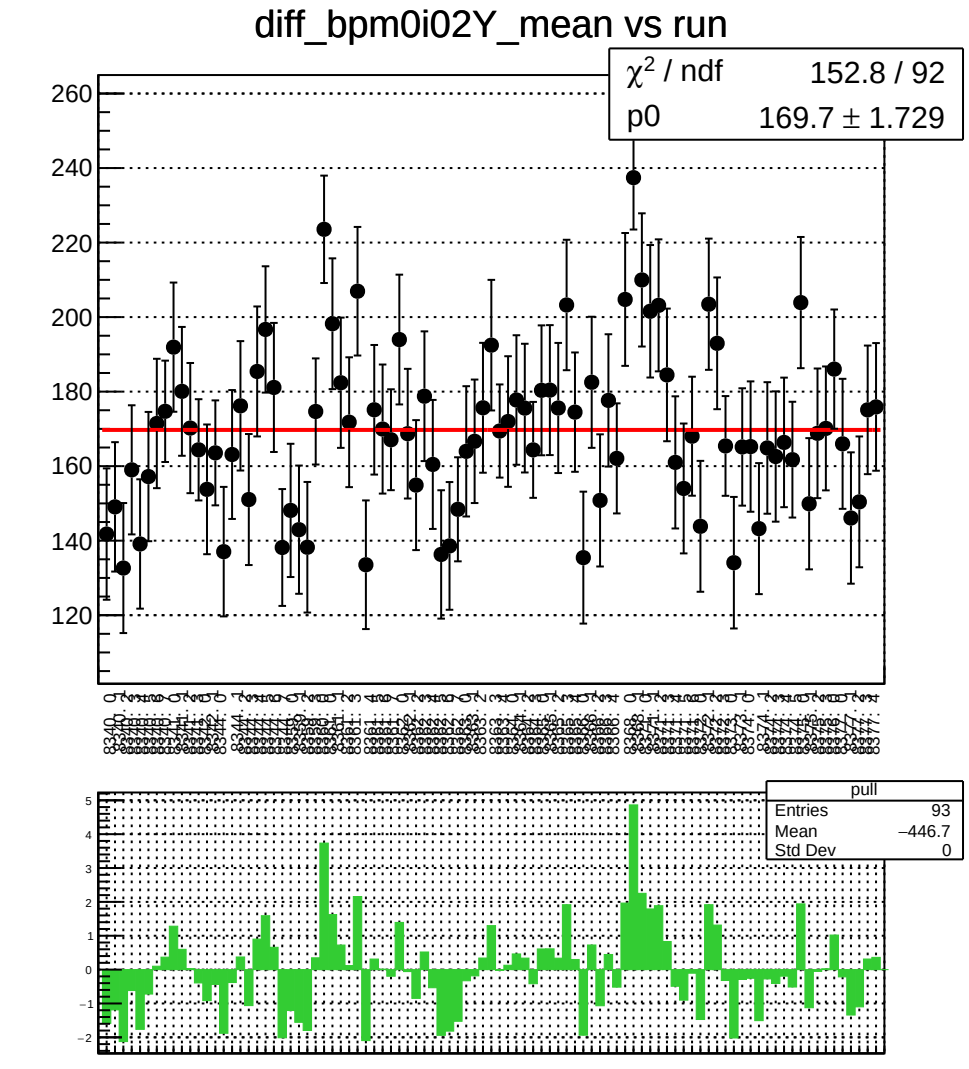

pull1D
Entries 93
Mean 0.02145
Std Dev 1.706

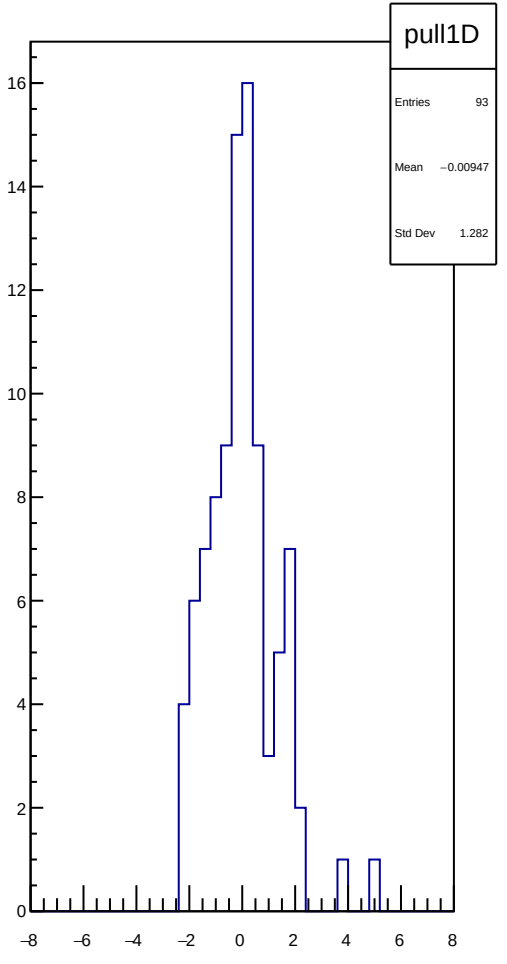

diff_bpm2i02Y_rms vs run
χ² / ndf 2447 / 92
p0 662.2 ± 0.4893
720
700
680
660
640
620
600

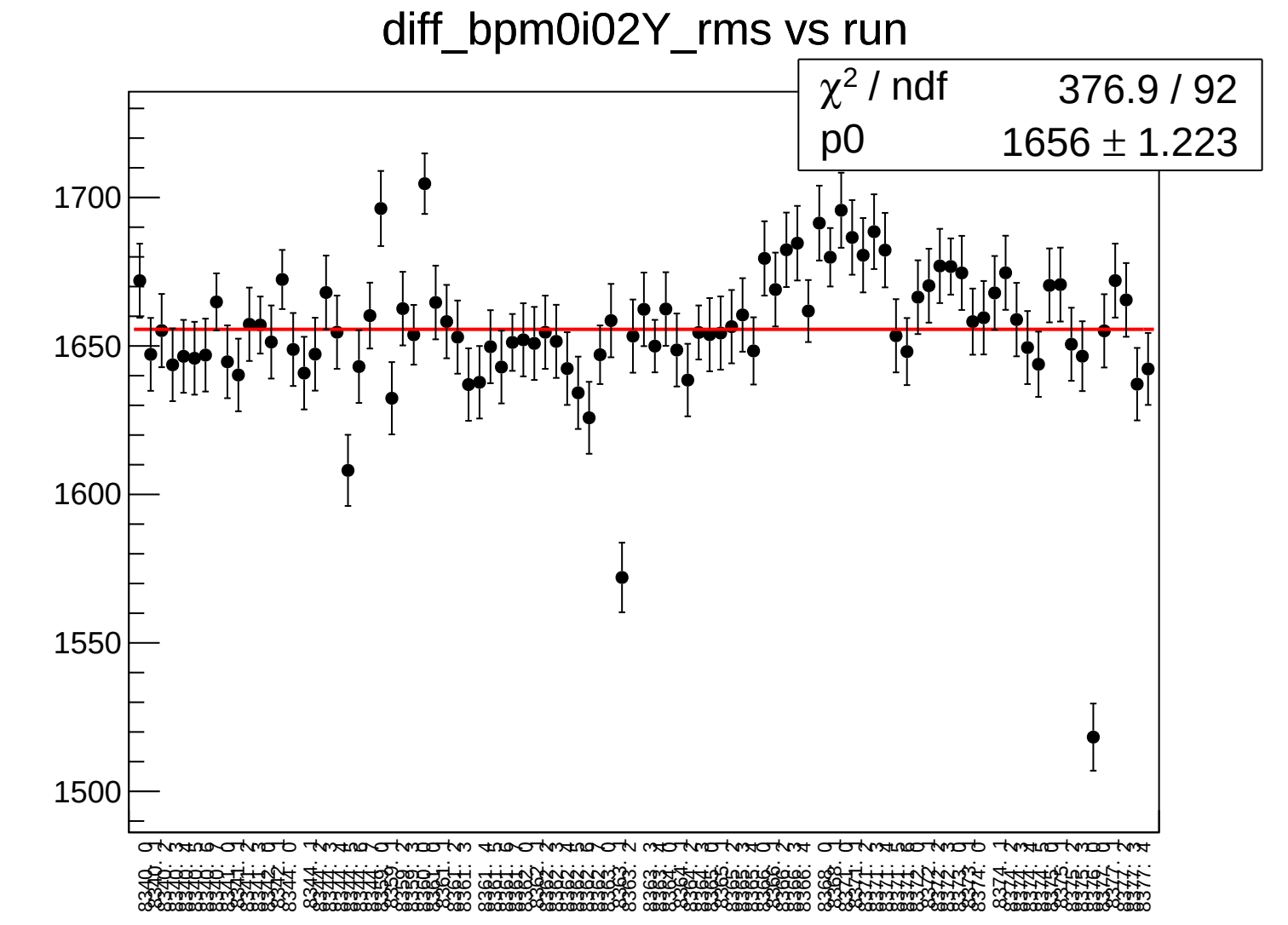

diff_bpm0i02X_mean vs run
χ² / ndf 155.2 / 92
p0 −57.81 ± 1.306
pull
Entries 93
Mean 489.3
Std Dev 0

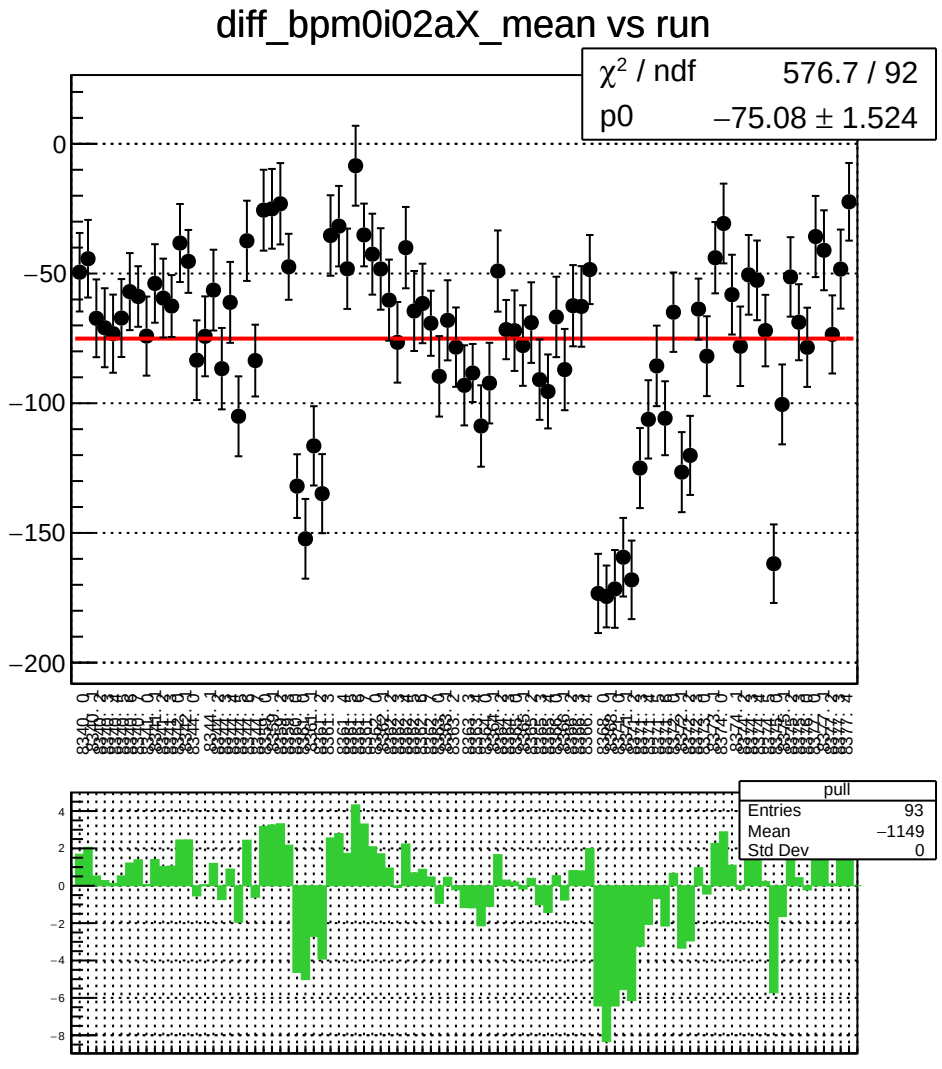

pull1D
Entries 93
Mean −0.007302
Std Dev 1.292

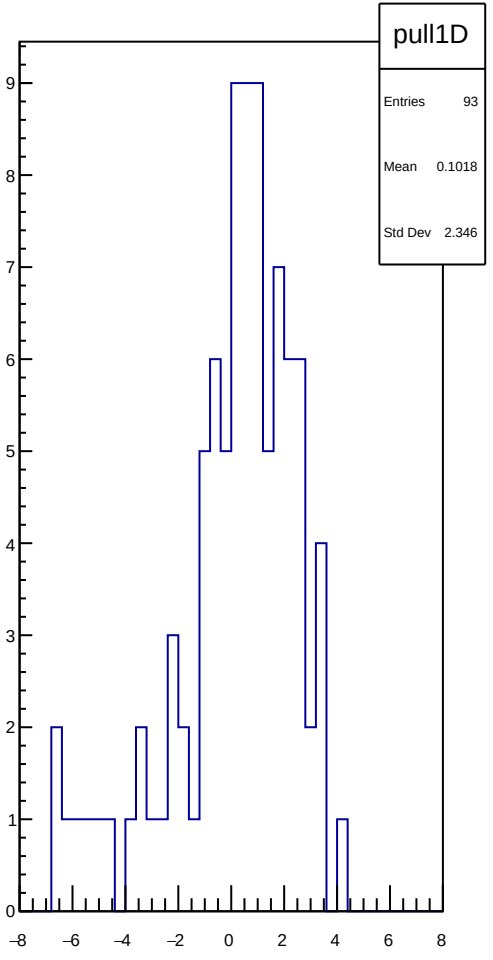

diff_bpm0i02X_rms vs run
χ² / ndf 199.3 / 92
p0 1250 ± 0.9235
1290
1280
1270
1260
1250
1240
1230
1220
1210

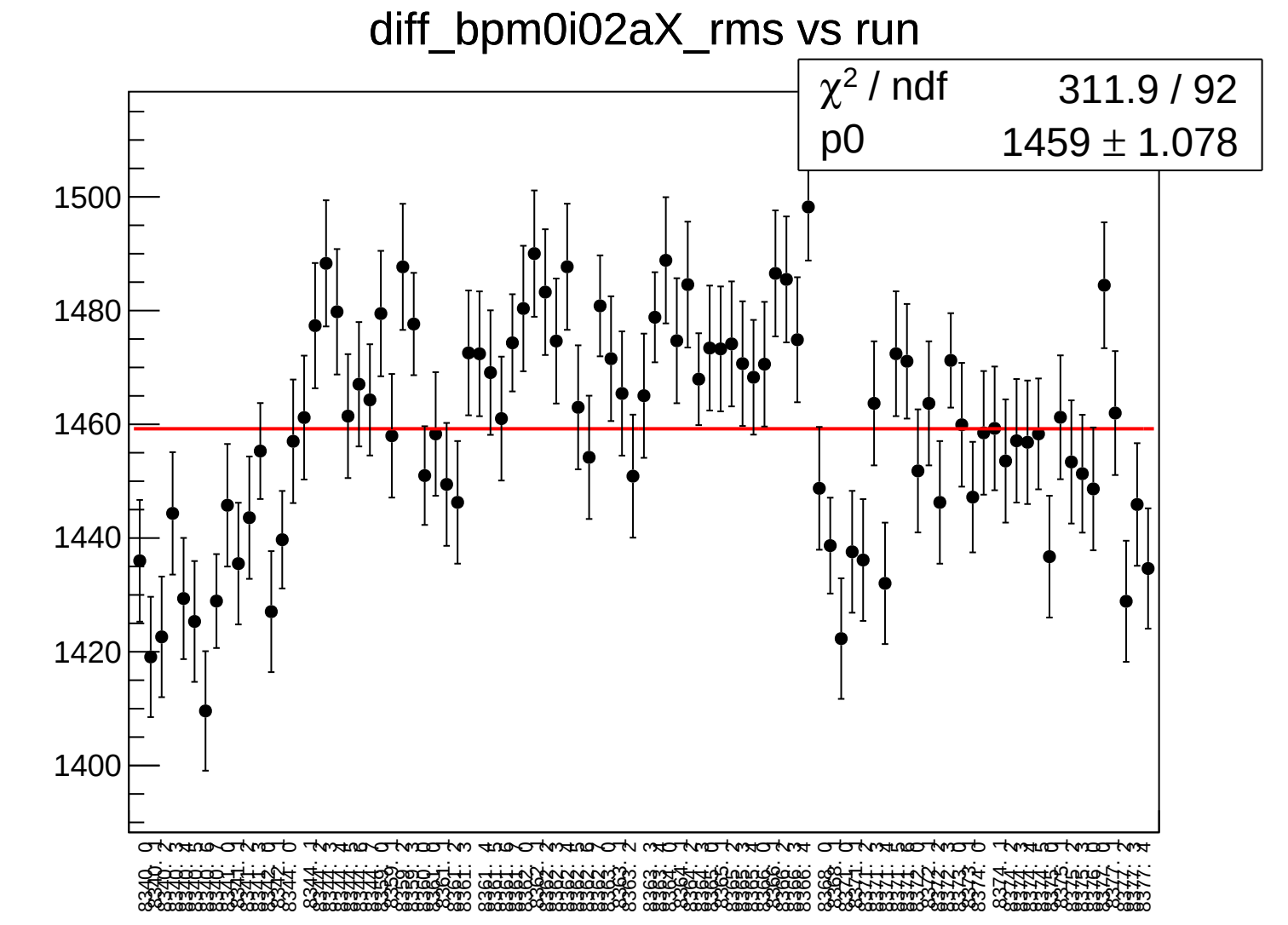

diff_bpm0i02Y_mean vs run
χ² / ndf 152.8 / 92
p0 169.7 ± 1.729
260
240
220
200
180
160
140
120
pull
Entries 93
Mean −446.7
Std Dev 0
5
4
3
2
1
0
−1
−2

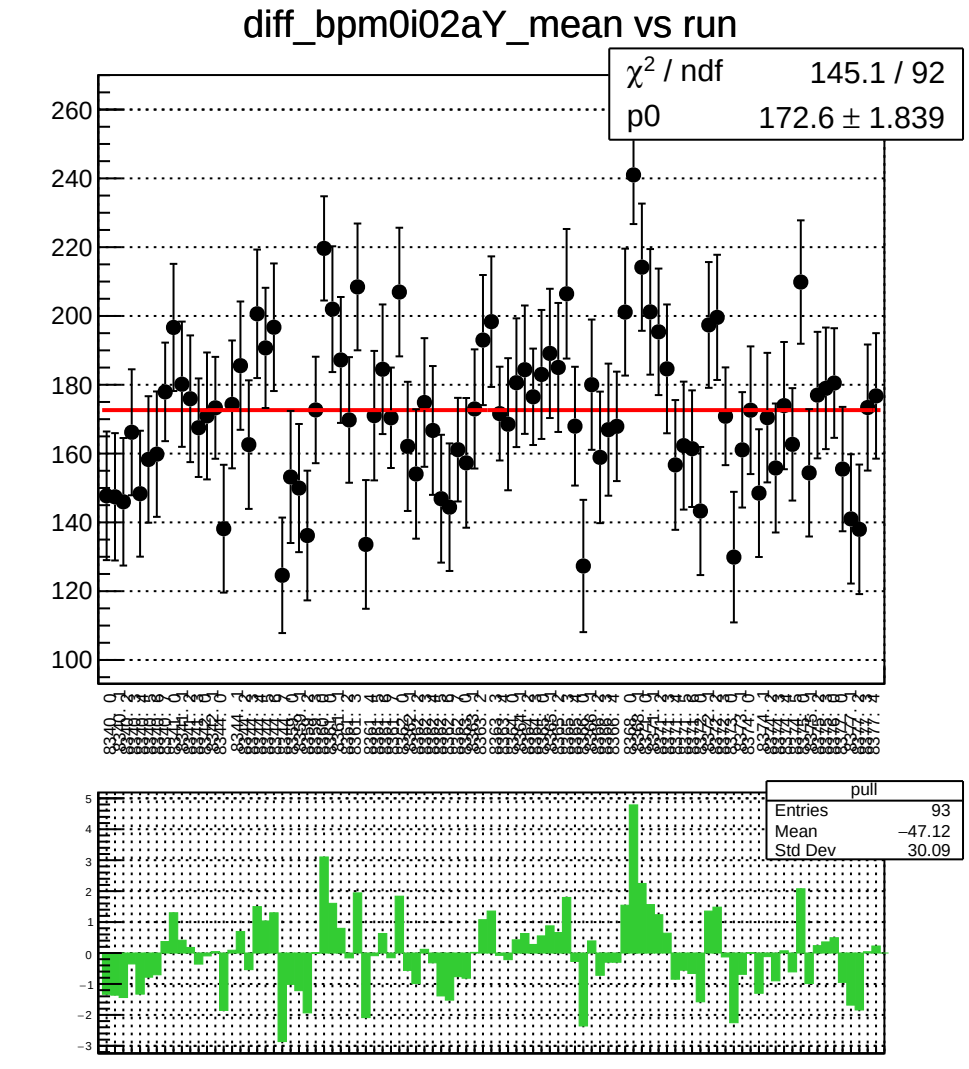

pull1D
Entries 93
Mean −0.00947
Std Dev 1.282
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

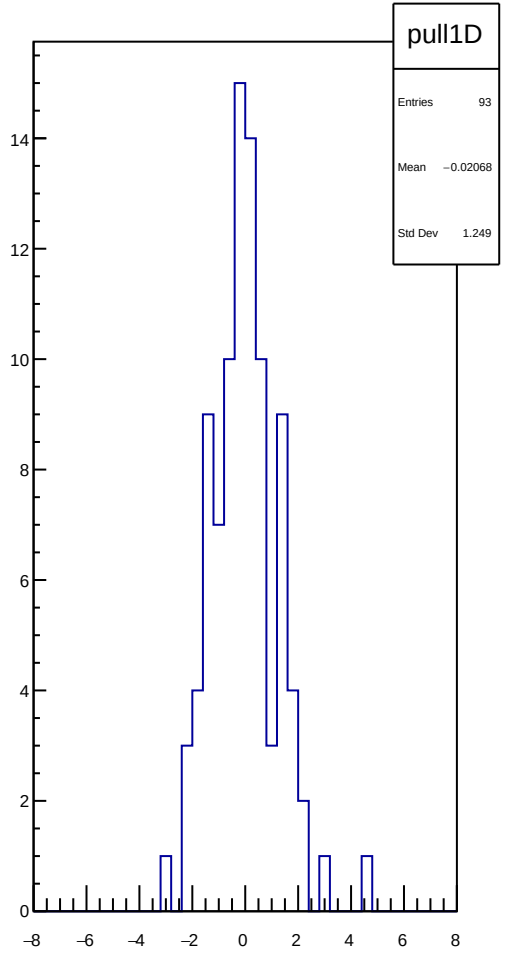

diff_bpm0i02Y_rms vs run
χ² / ndf 376.9 / 92
p0 1656 ± 1.223
1700
1650
1600
1550
1500

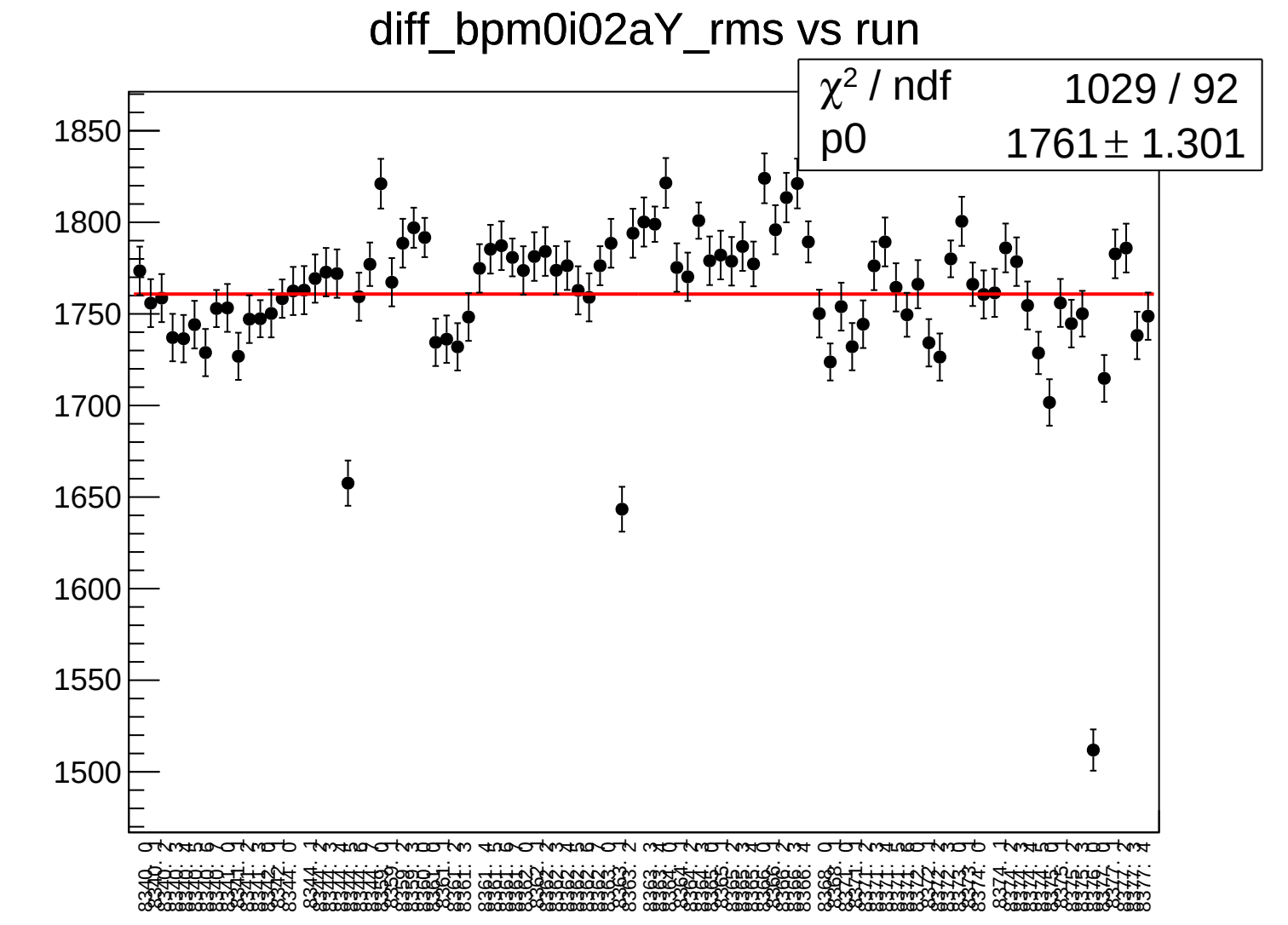

diff_bpm0i02aX_mean vs run
χ^2 / ndf 576.7 / 92
p0 −75.08 ± 1.524
0
−50
−100
−150
−200
pull
Entries 93
Mean −1149
Std Dev 0
4
2
0
−2
−4
−6
−8

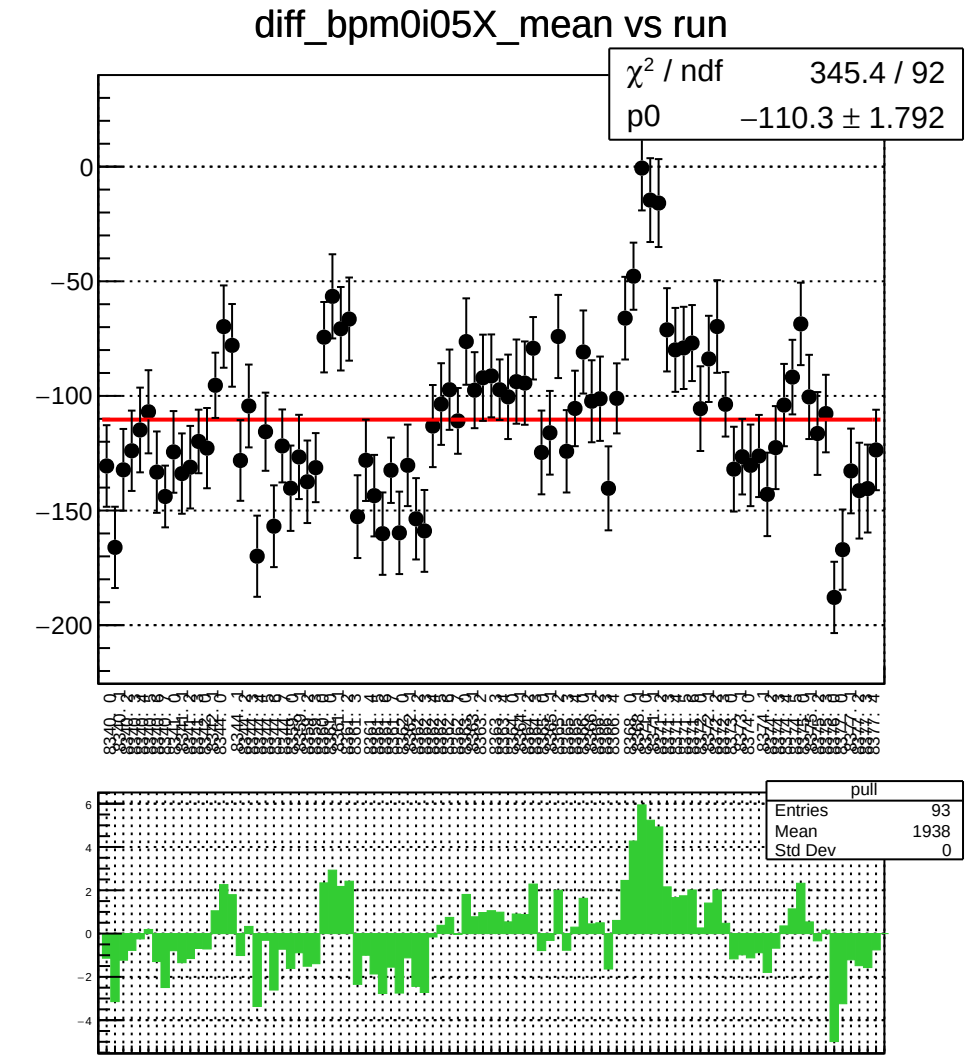

pull1D
Entries 93
Mean 0.1018
Std Dev 2.346
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

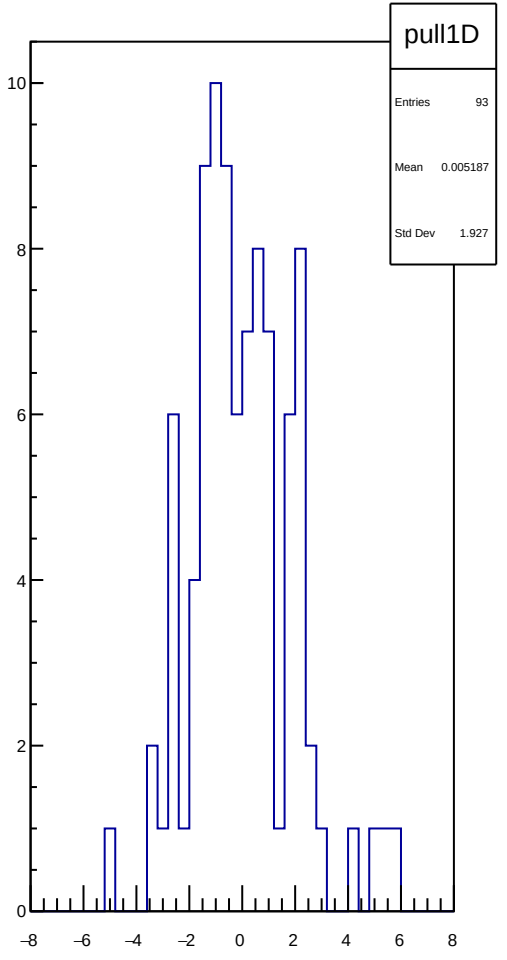

diff_bpm0i02aX_rms vs run
χ² / ndf 311.9 / 92
p0 1459 ± 1.078
1500
1480
1460
1440
1420
1400

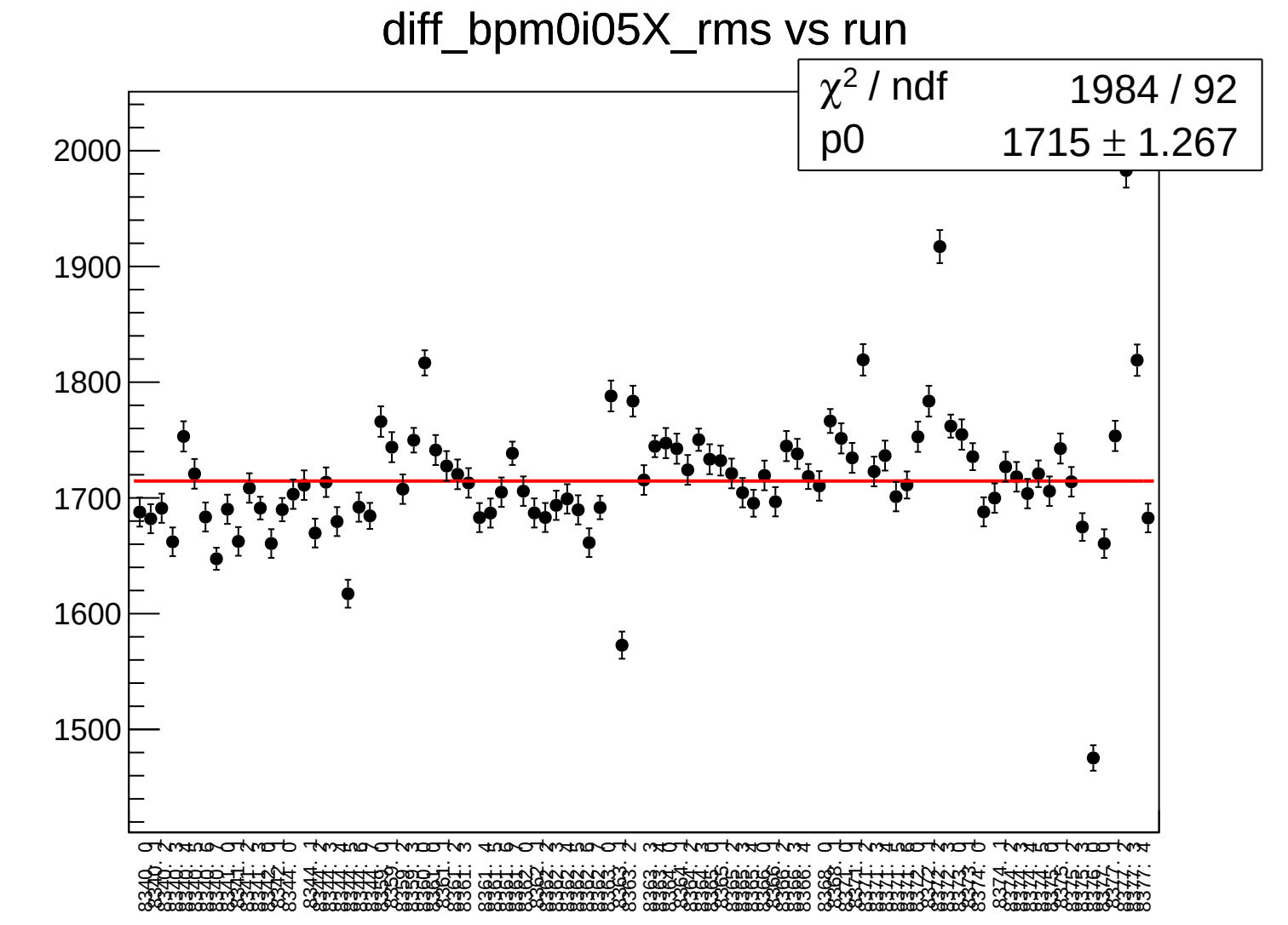

diff_bpm0i02aY_mean vs run
χ² / ndf 145.1 / 92
p0 172.6 ± 1.839
260
240
220
200
180
160
140
120
100
pull
Entries 93
Mean −47.12
Std Dev 30.09
5
4
3
2
1
0
−1
−2
−3

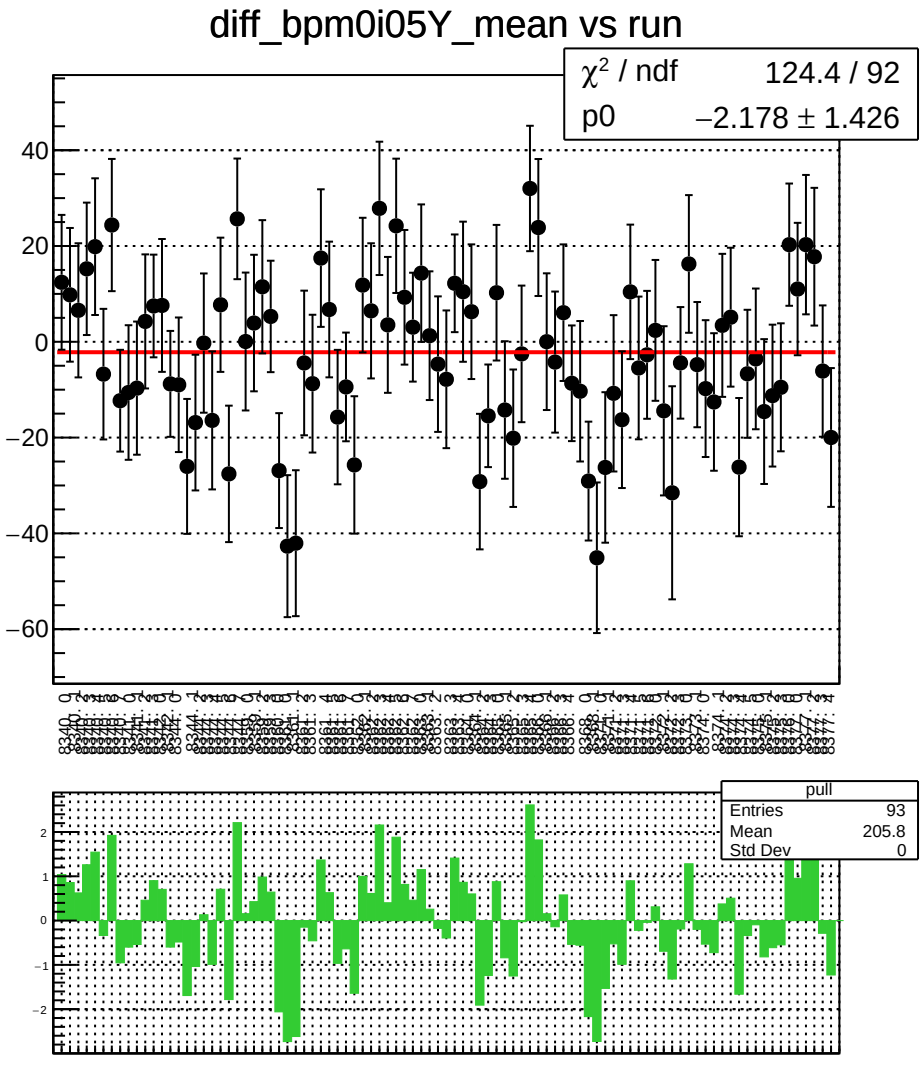

pull1D
Entries 93
Mean −0.02068
Std Dev 1.249
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

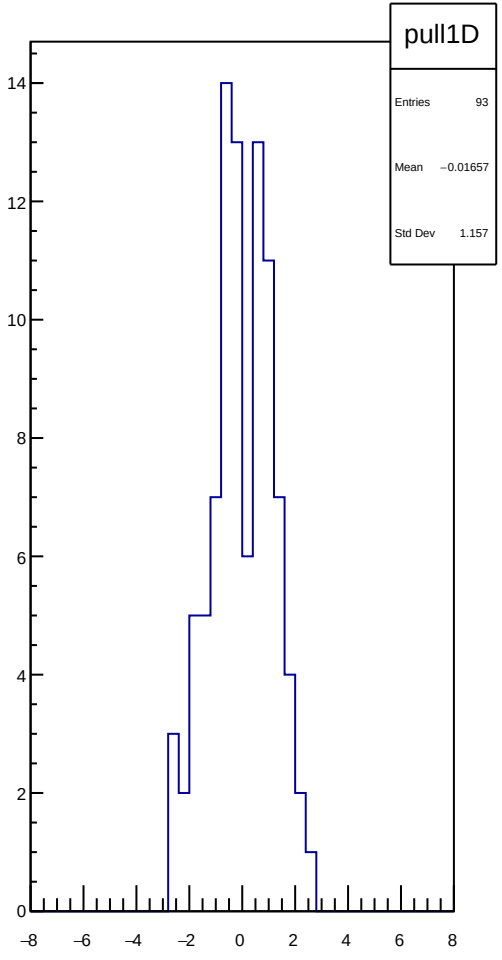

diff_bpm0i02aY_rms vs run
χ² / ndf 1029 / 92
p0 1761 ± 1.301
1850
1800
1750
1700
1650
1600
1550
1500

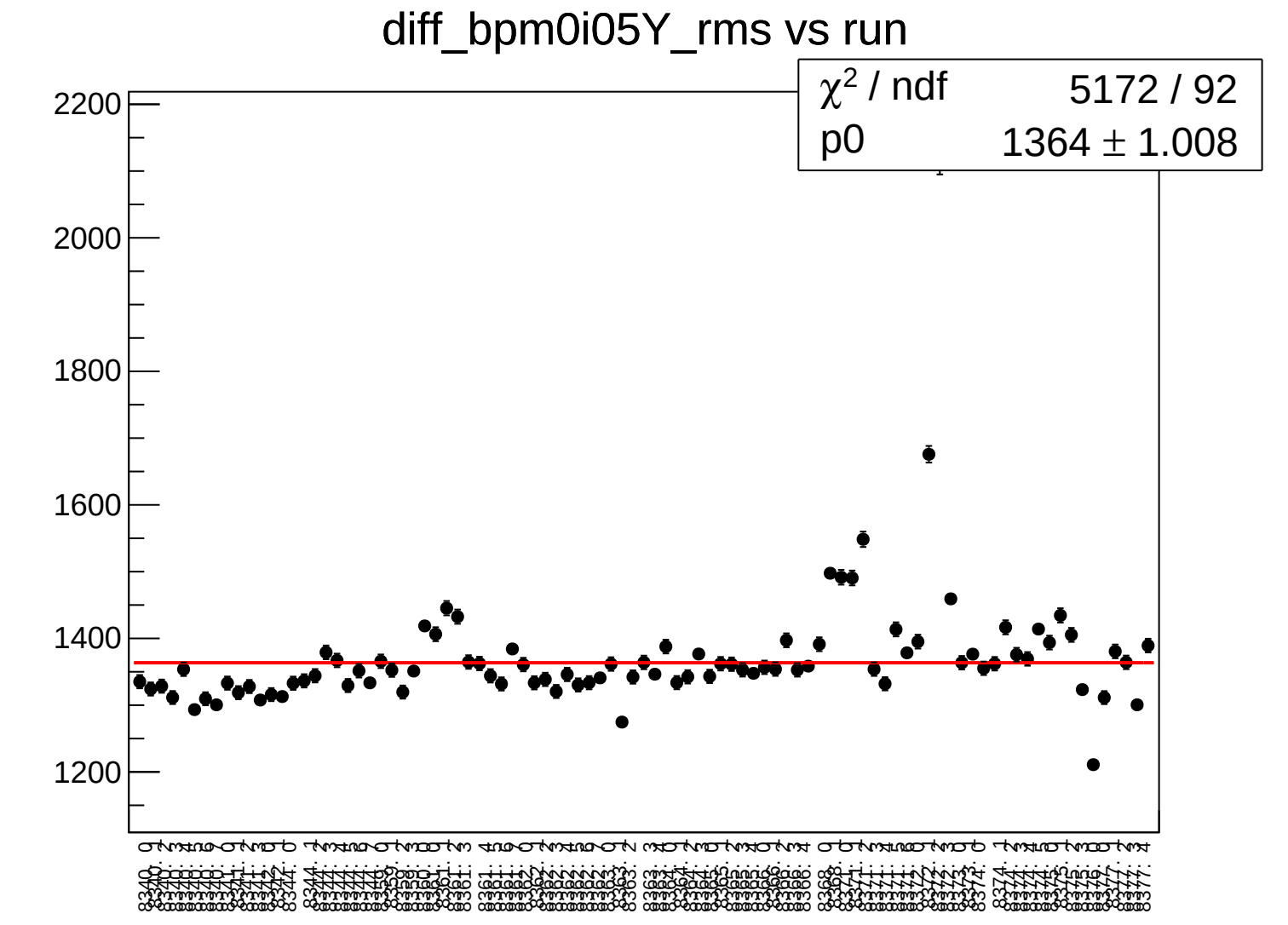

diff_bpm0i05X_mean vs run
χ² / ndf 345.4 / 92
p0 −110.3 ± 1.792
0
−50
−100
−150
−200
pull
Entries 93
Mean 1938
Std Dev 0
6
4
2
0
−2
−4

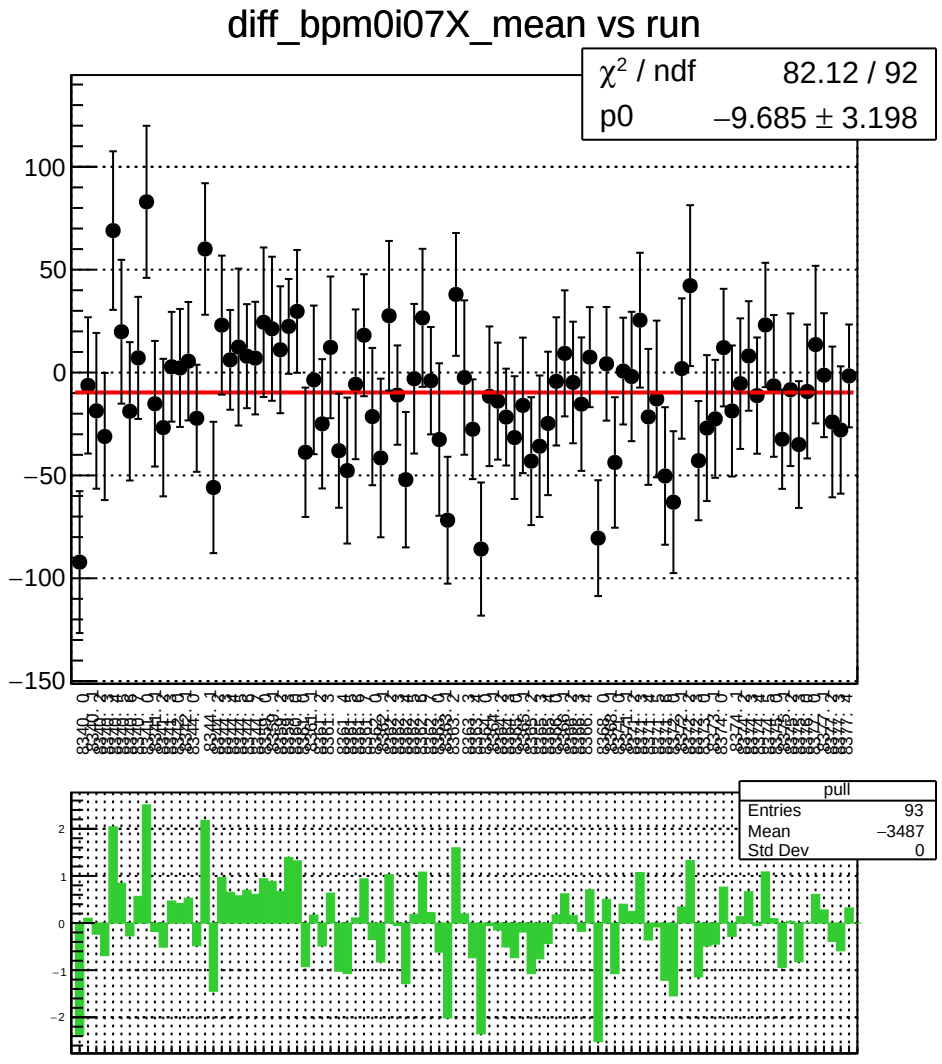

pull1D
Entries 93
Mean 0.005187
Std Dev 1.927
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

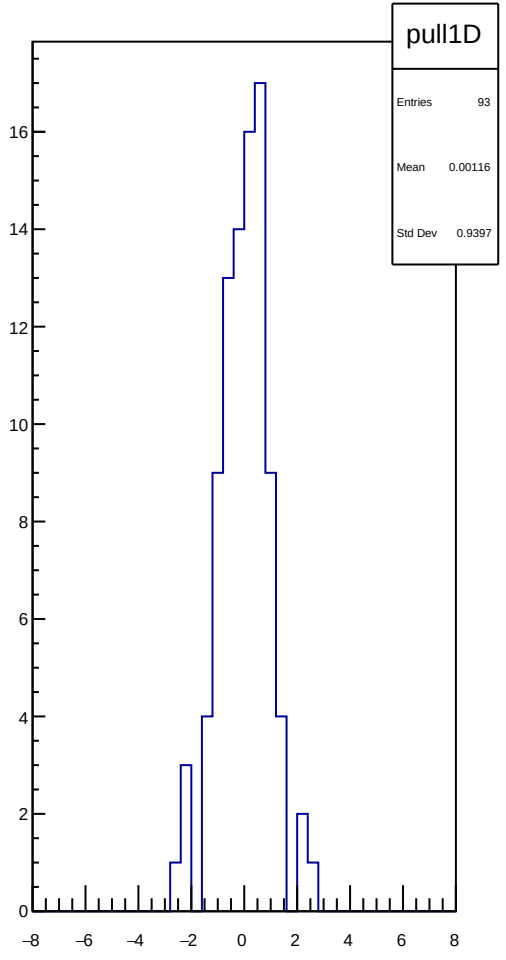

diff_bpm0i05X_rms vs run
χ² / ndf 1984 / 92
p0 1715 ± 1.267
2000
1900
1800
1700
1600
1500

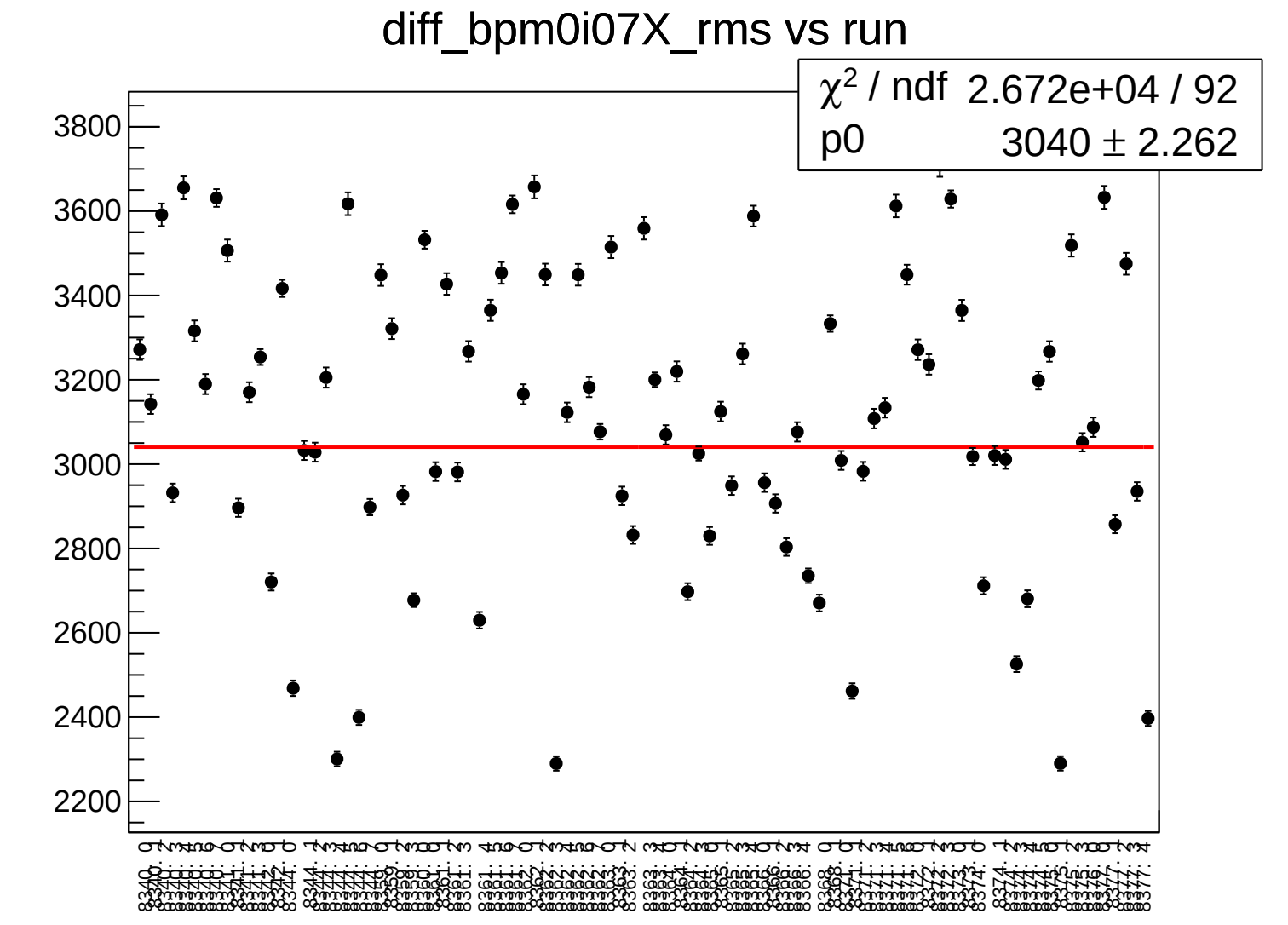

diff_bpm0i05Y_mean vs run
χ² / ndf 124.4 / 92
p0 −2.178 ± 1.426
pull
Entries 93
Mean 205.8
Std Dev 0

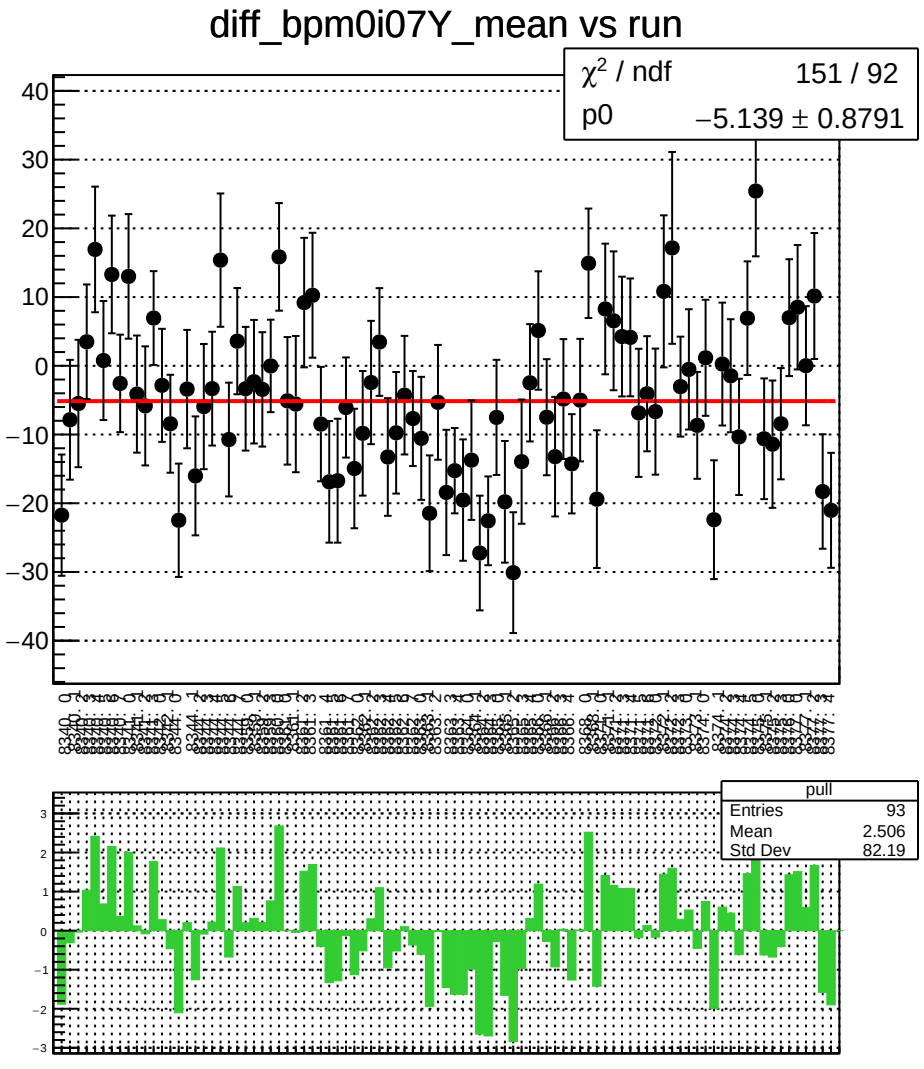

pull1D
Entries 93
Mean −0.01657
Std Dev 1.157

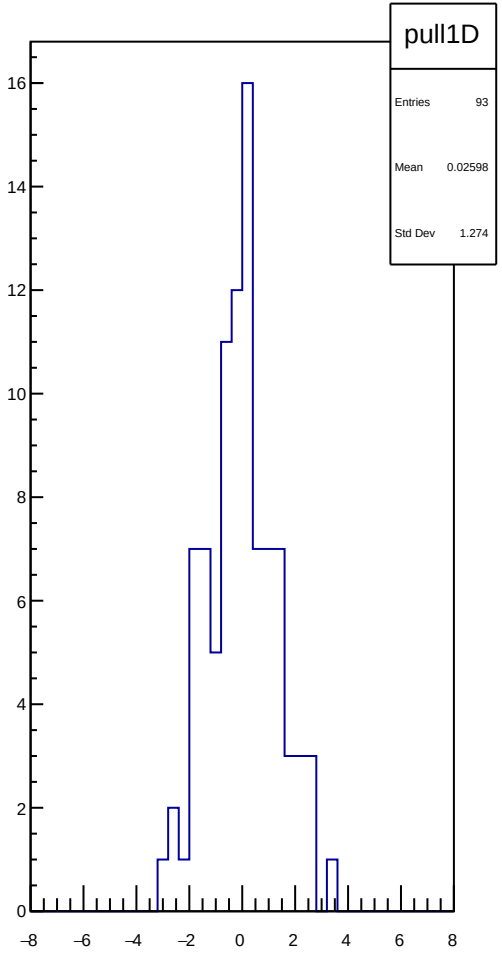

diff_bpm0i05Y_rms vs run
χ² / ndf 5172 / 92
p0 1364 ± 1.008
2200
2000
1800
1600
1400
1200

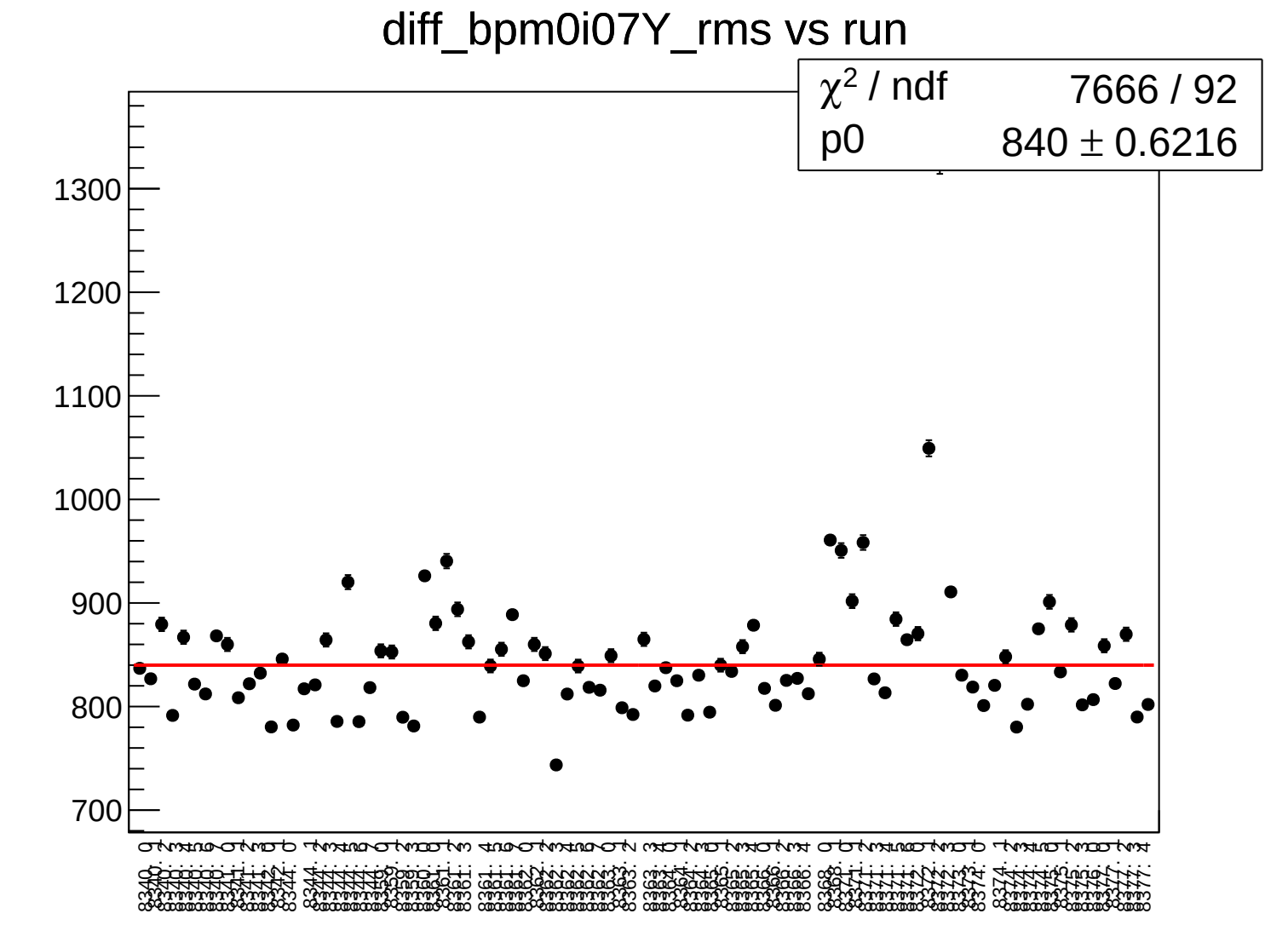

diff_bpm0i07X_mean vs run
χ² / ndf 82.12 / 92
p0 −9.685 ± 3.198
100
50
0
−50
−100
−150
pull
Entries 93
Mean −3487
Std Dev 0
2
1
0
−1
−2

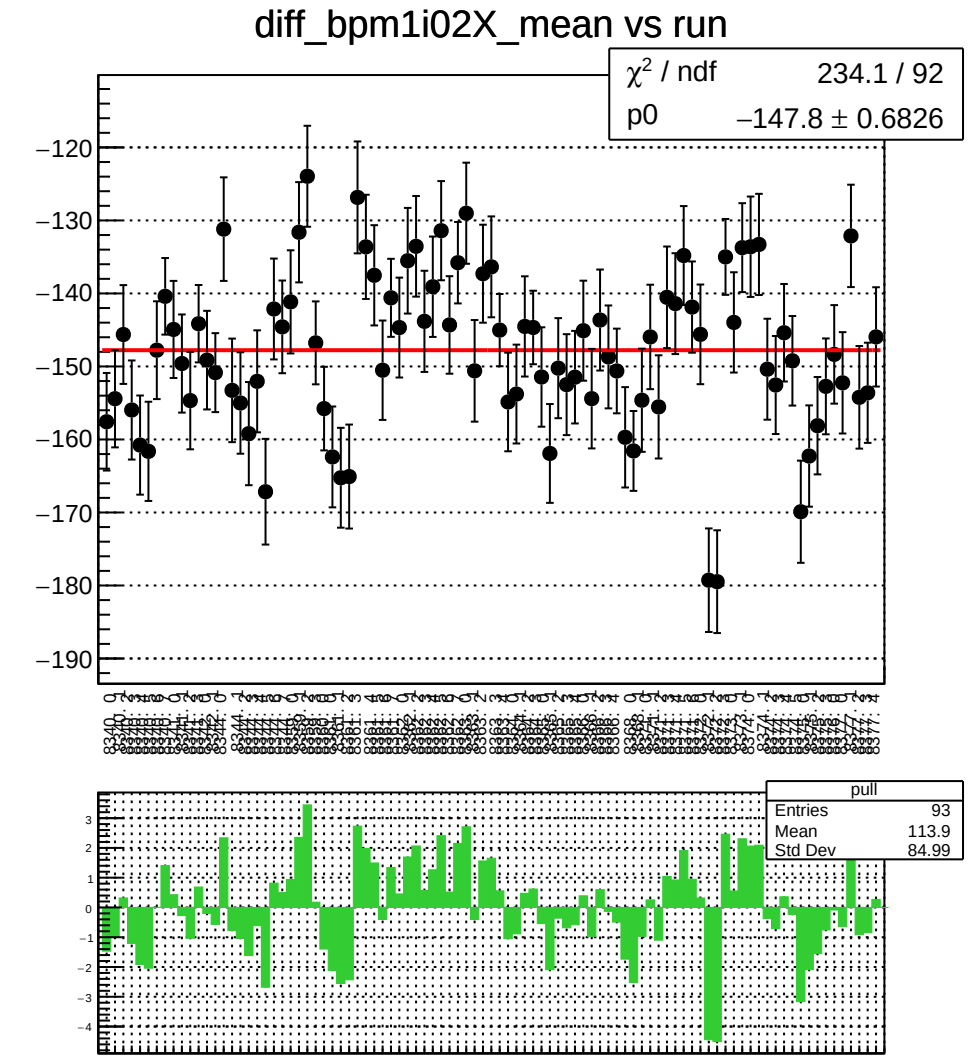

pull1D
Entries 93
Mean 0.00116
Std Dev 0.9397
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

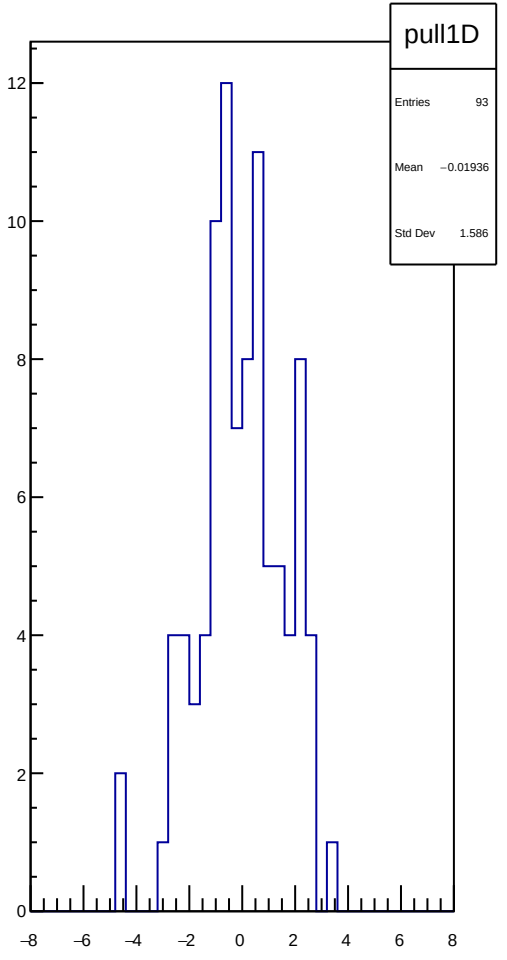

diff_bpm0i07X_rms vs run
χ² / ndf 2.672e+04 / 92
p0 3040 ± 2.262
3800
3600
3400
3200
3000
2800
2600
2400
2200

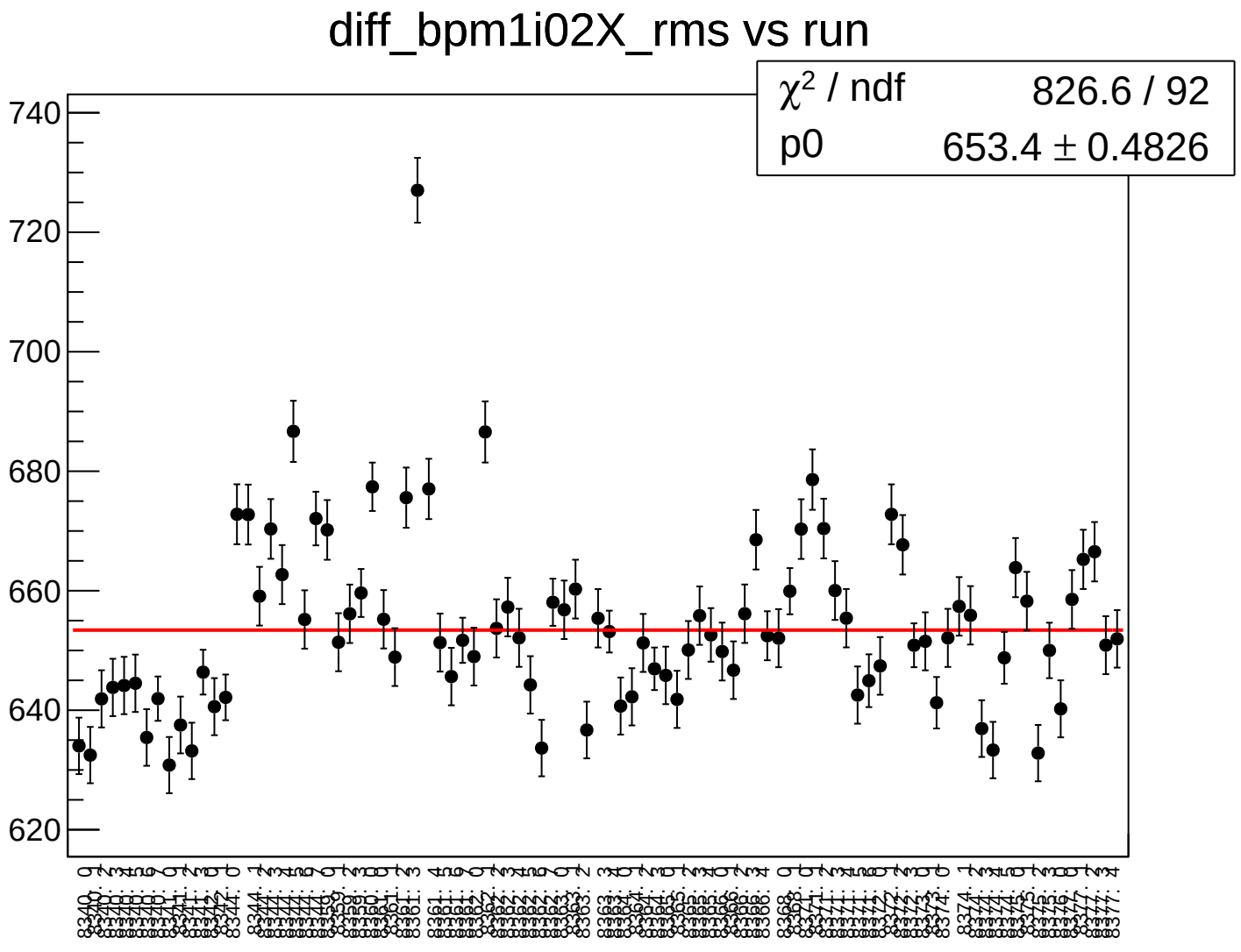

diff_bpm0i07Y_mean vs run
χ² / ndf 151 / 92
p0 −5.139 ± 0.8791
pull
Entries 93
Mean 2.506
Std Dev 82.19

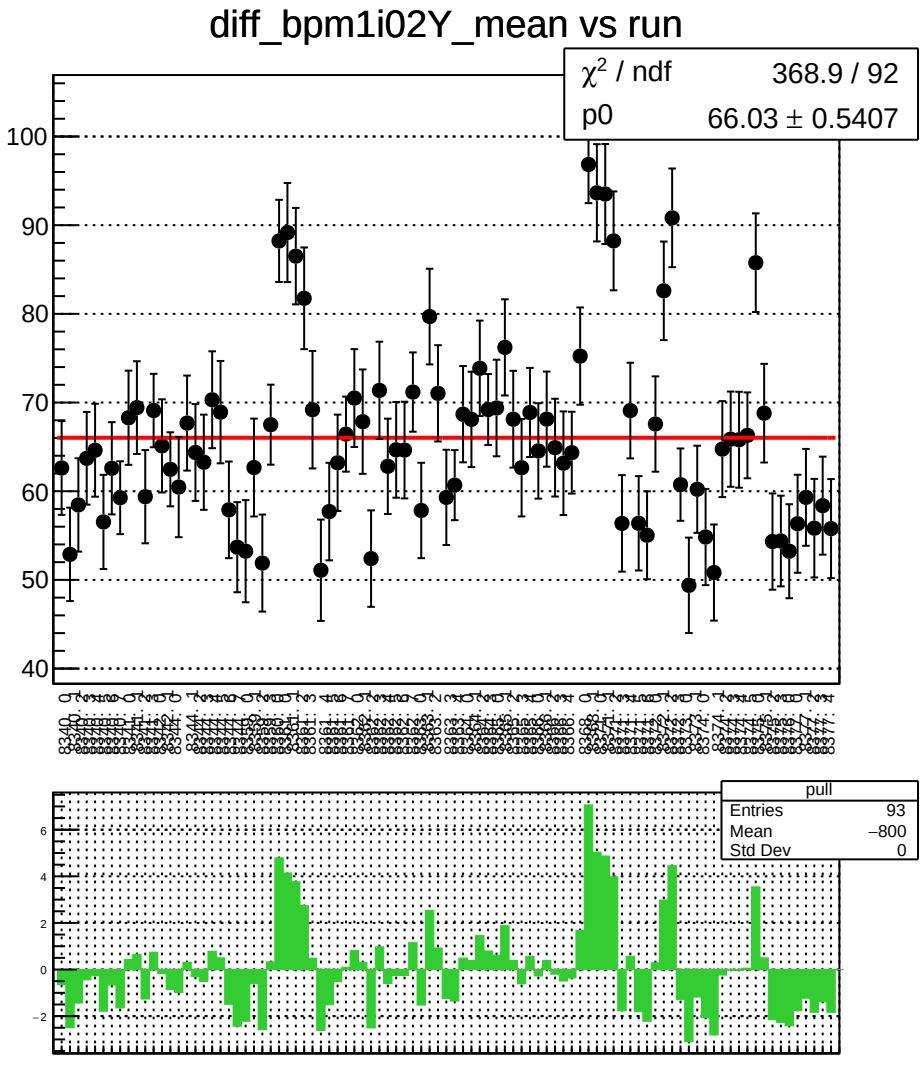

pull1D
Entries 93
Mean 0.02598
Std Dev 1.274

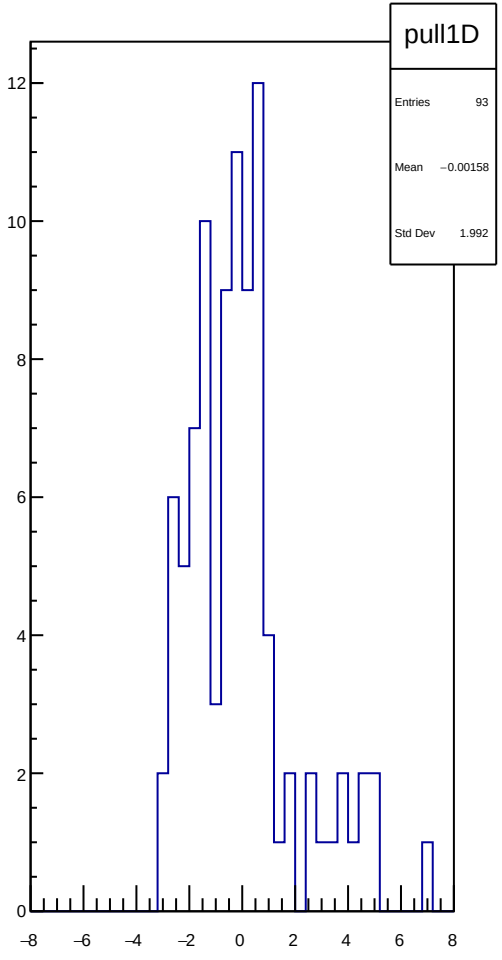

diff_bpm0i07Y_rms vs run
χ² / ndf 7666 / 92
p0 840 ± 0.6216
1300
1200
1100
1000
900
800
700

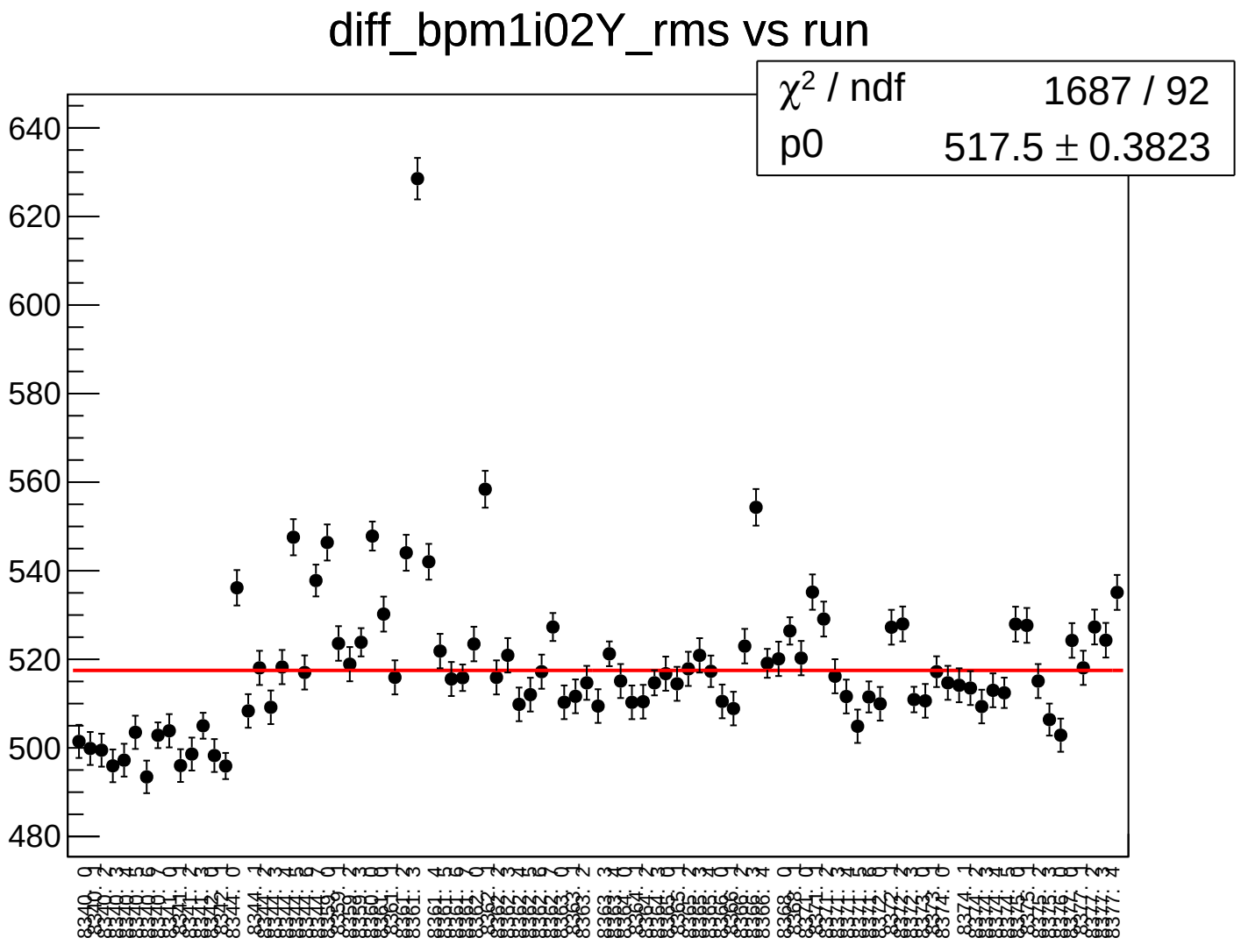

diff_bpm1i02X_mean vs run
χ² / ndf 234.1 / 92
p0 −147.8 ± 0.6826
−120
−130
−140
−150
−160
−170
−180
−190
pull
Entries 93
Mean 113.9
Std Dev 84.99
3
2
1
0
−1
−2
−3
−4

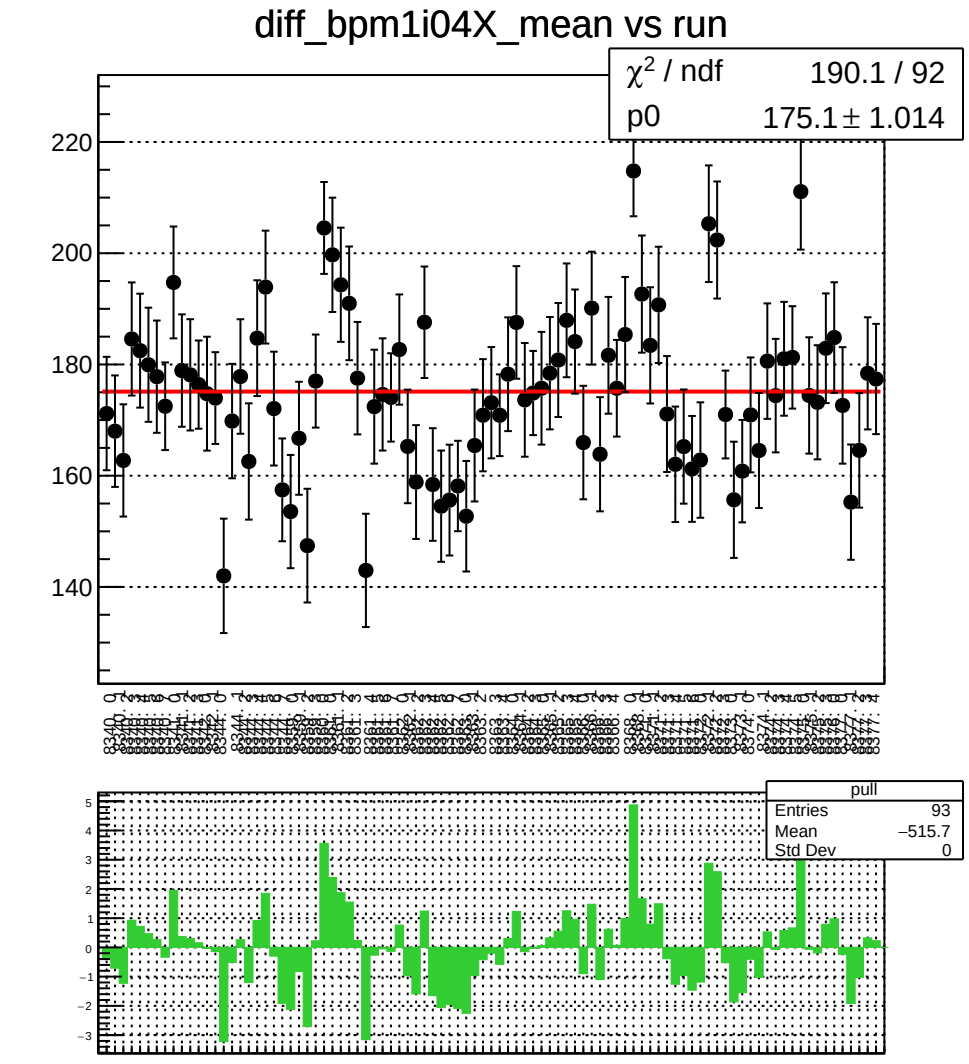

pull1D
Entries 93
Mean −0.01936
Std Dev 1.586
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

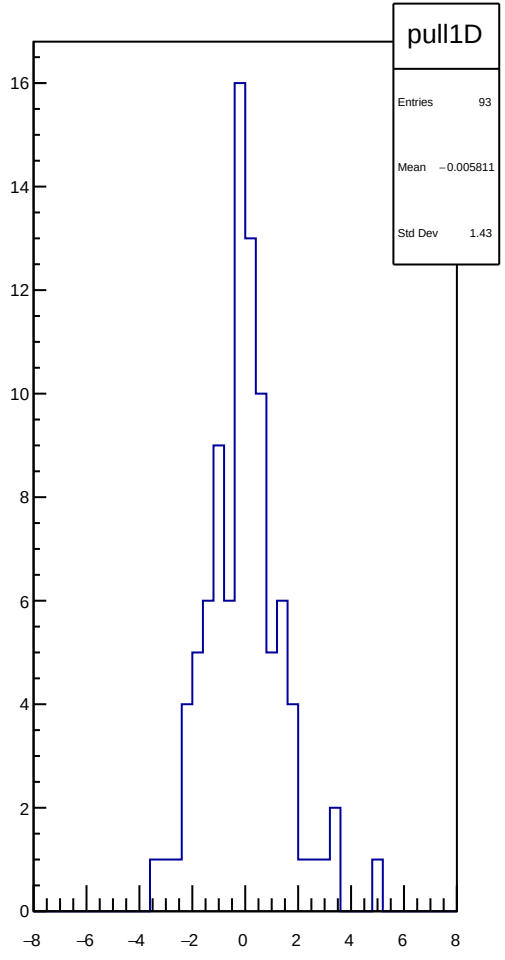

diff_bpm1i02X_rms vs run
χ² / ndf 826.6 / 92
p0 653.4 ± 0.4826
740
720
700
680
660
640
620

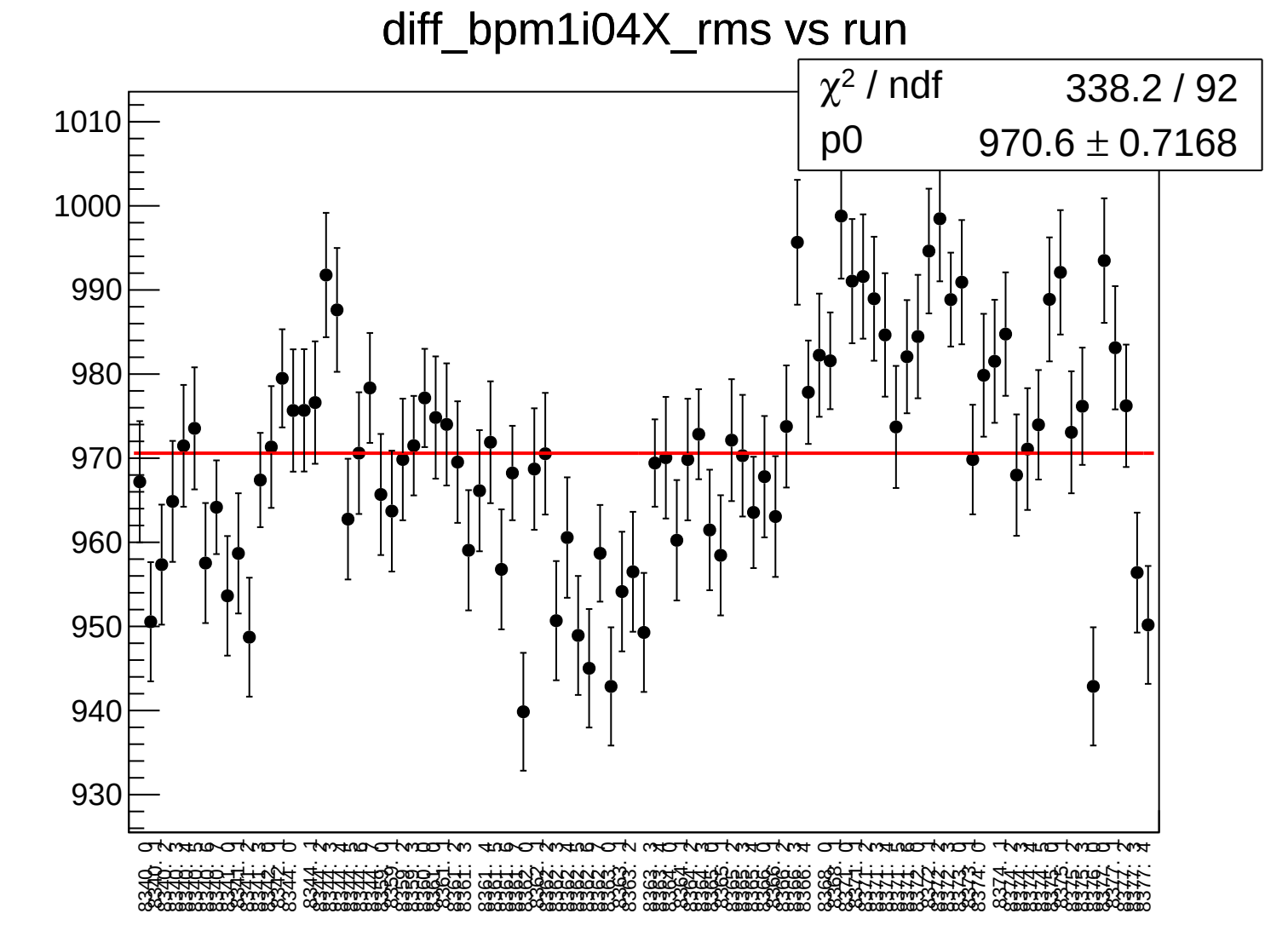

diff_bpm1i02Y_mean vs run
χ^2 / ndf 368.9 / 92
p0 66.03 ± 0.5407
pull
Entries 93
Mean −800
Std Dev 0

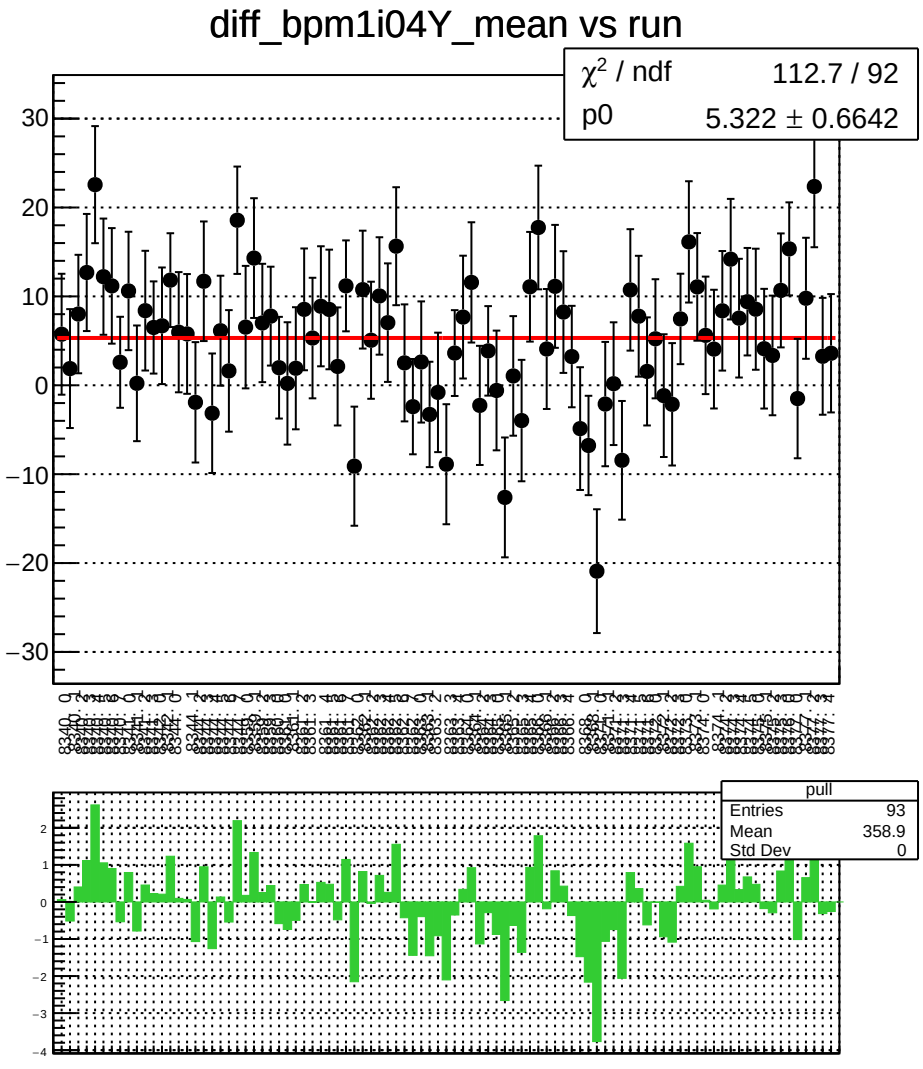

pull1D
Entries 93
Mean −0.00158
Std Dev 1.992

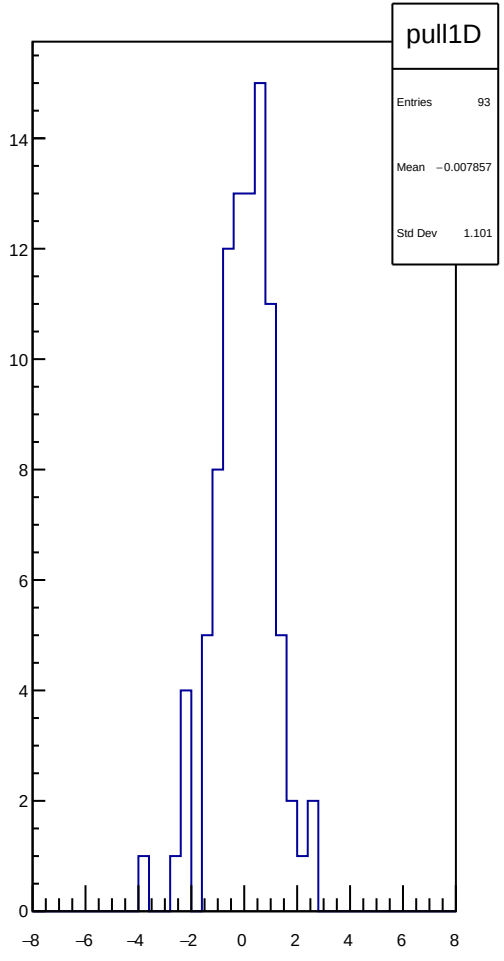

diff_bpm1i02Y_rms vs run
χ² / ndf 1687 / 92
p0 517.5 ± 0.3823
640
620
600
580
560
540
520
500
480

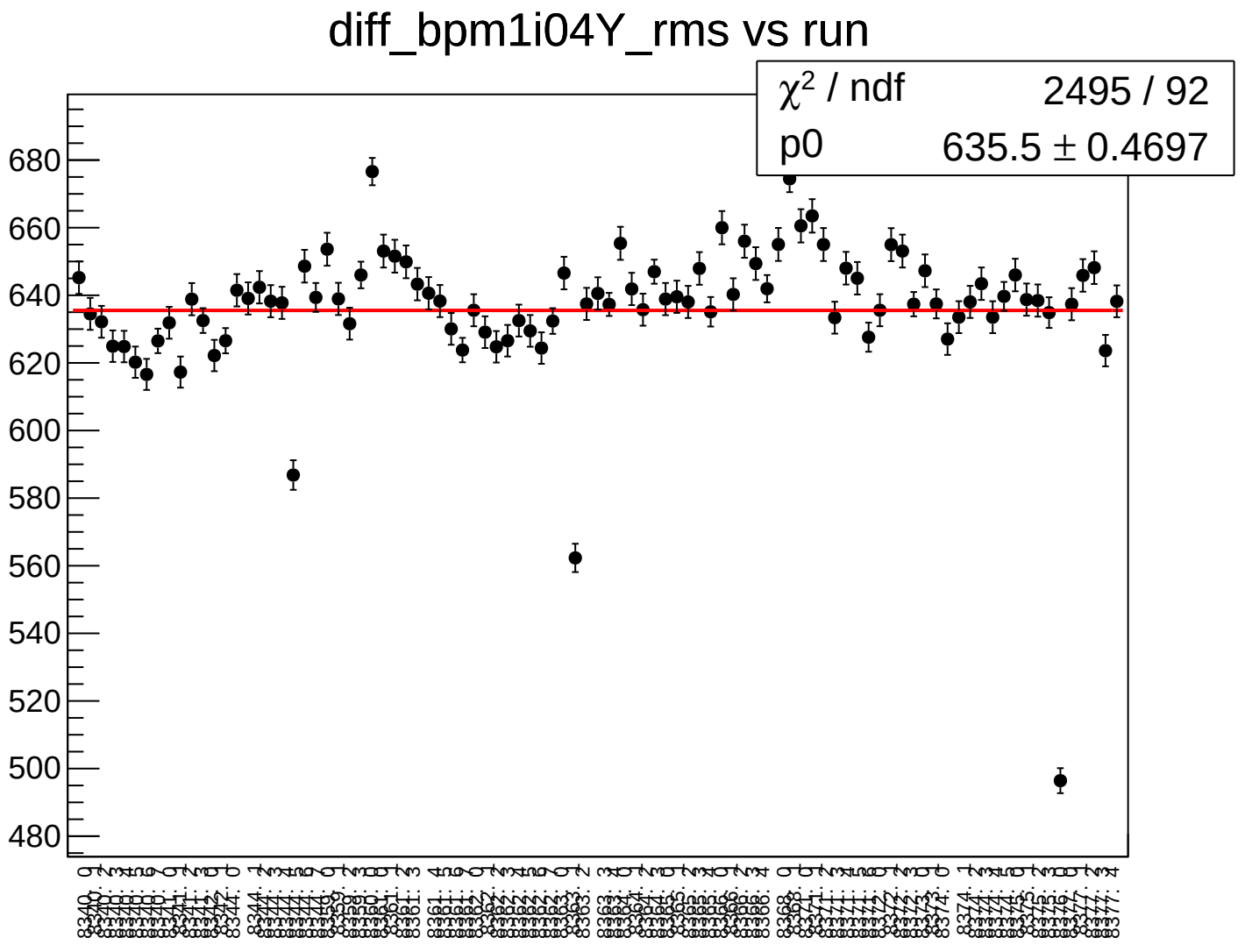

diff_bpm1i04X_mean vs run
χ² / ndf 190.1 / 92
p0 175.1 ± 1.014
220
200
180
160
140
pull
Entries 93
Mean −515.7
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

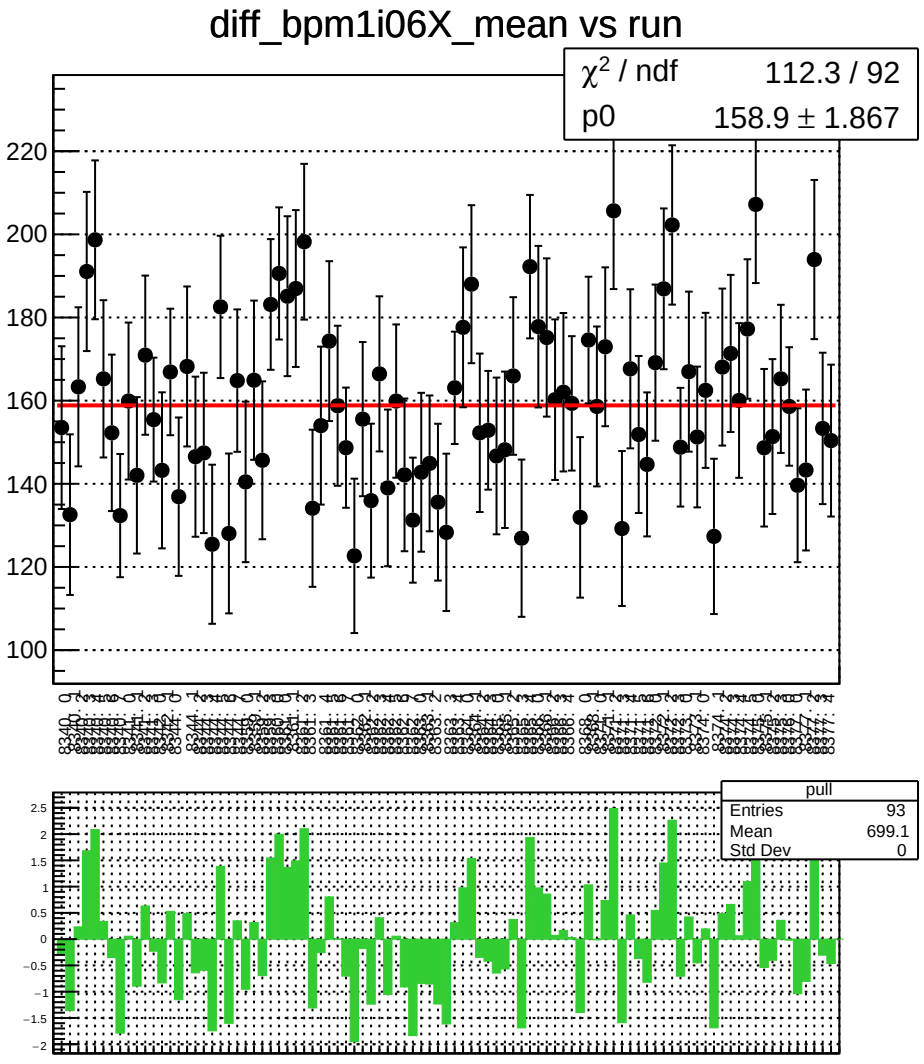

pull1D
Entries 93
Mean −0.005811
Std Dev 1.43
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

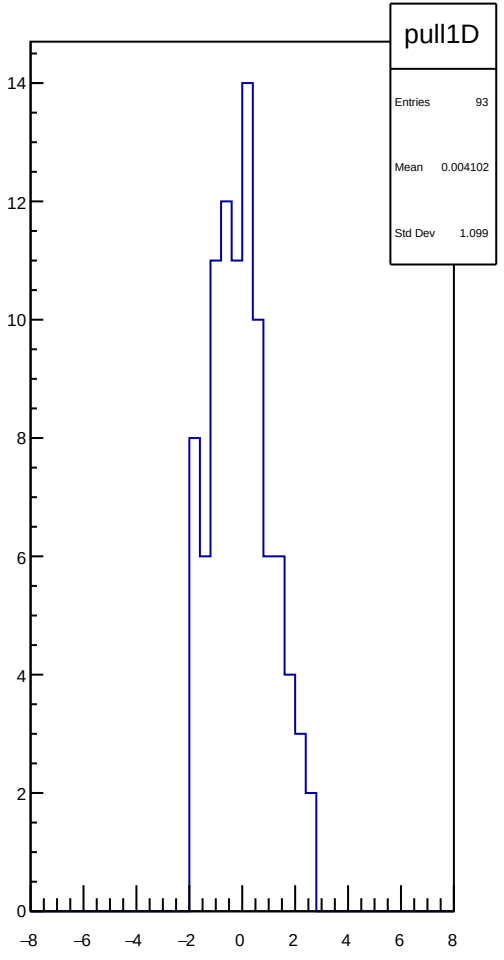

diff_bpm1i04X_rms vs run
χ² / ndf 338.2 / 92
p0 970.6 ± 0.7168
1010
1000
990
980
970
960
950
940
930

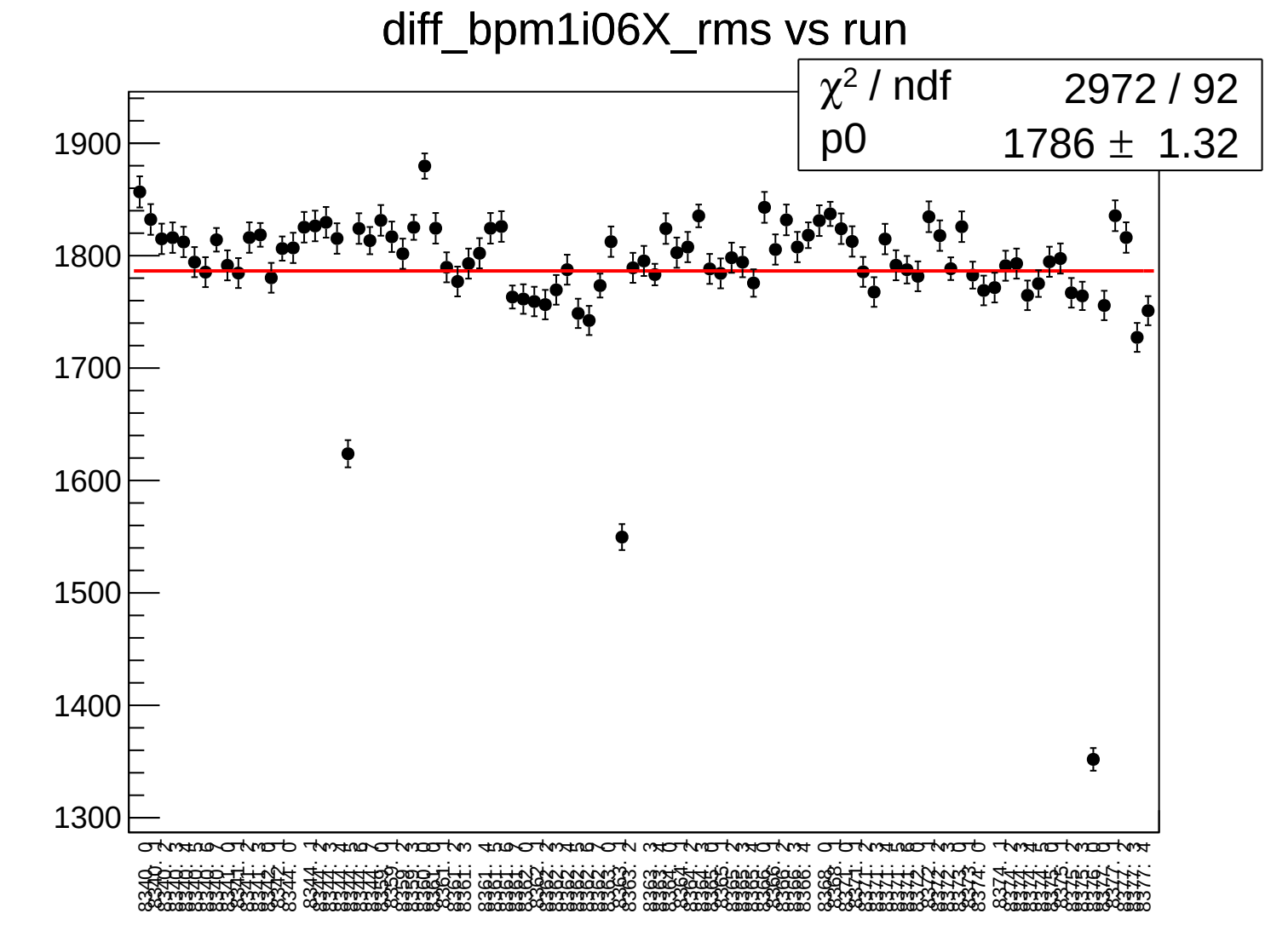

diff_bpm1i04Y_mean vs run
χ² / ndf 112.7 / 92
p0 5.322 ± 0.6642
pull
Entries 93
Mean 358.9
Std Dev 0

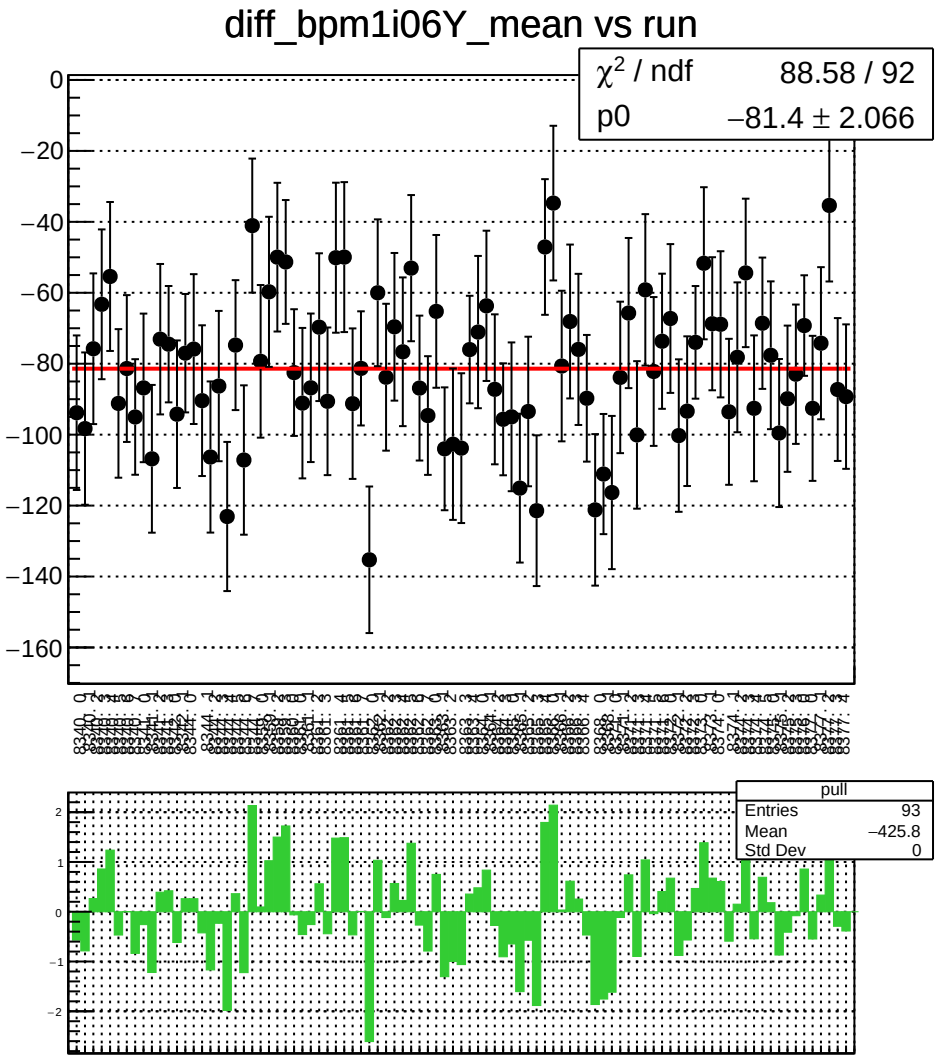

pull1D
Entries 93
Mean −0.007857
Std Dev 1.101

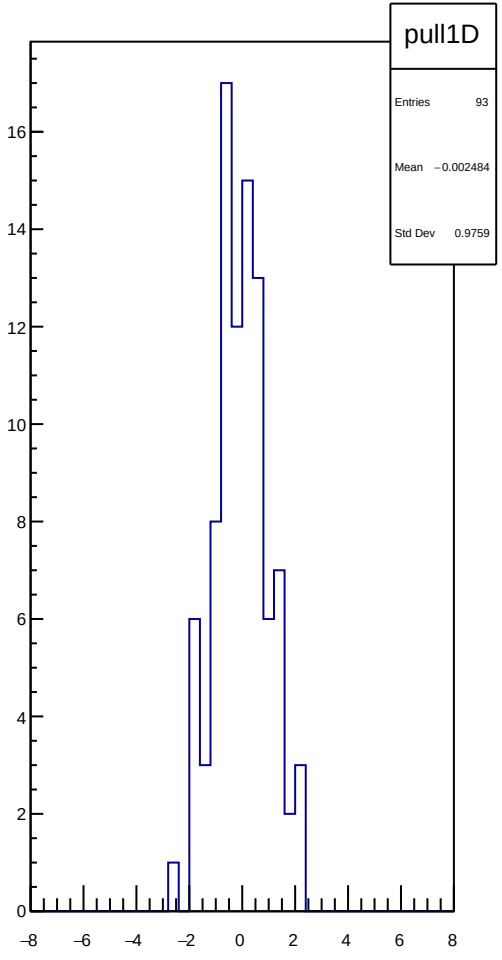

diff_bpm1i04Y_rms vs run
χ² / ndf 2495 / 92
p0 635.5 ± 0.4697
680
660
640
620
600
580
560
540
520
500
480

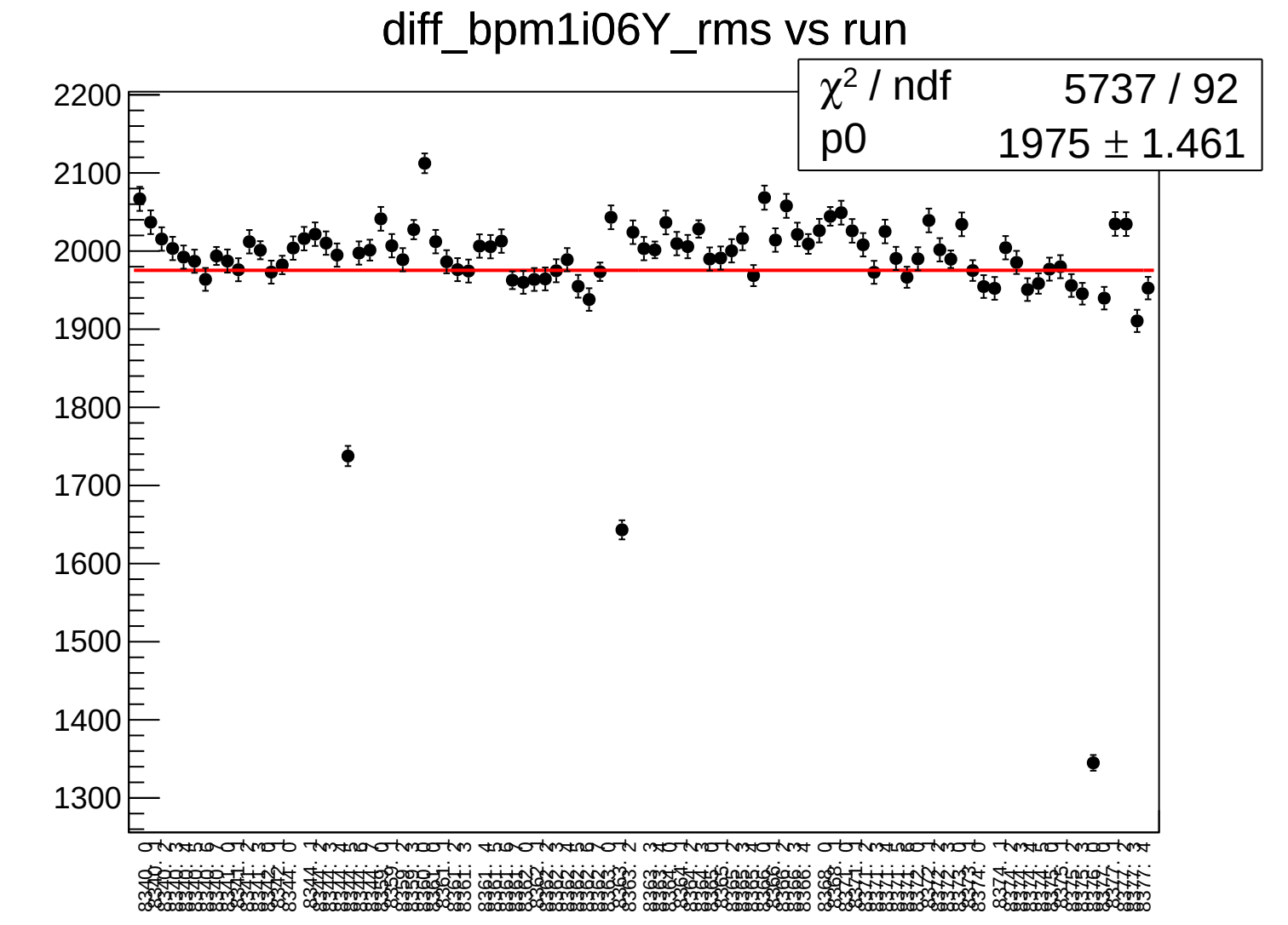

diff_bpm1i06X_mean vs run
χ^2 / ndf 112.3 / 92
p0 158.9 ± 1.867
pull
Entries 93
Mean 699.1
Std Dev 0

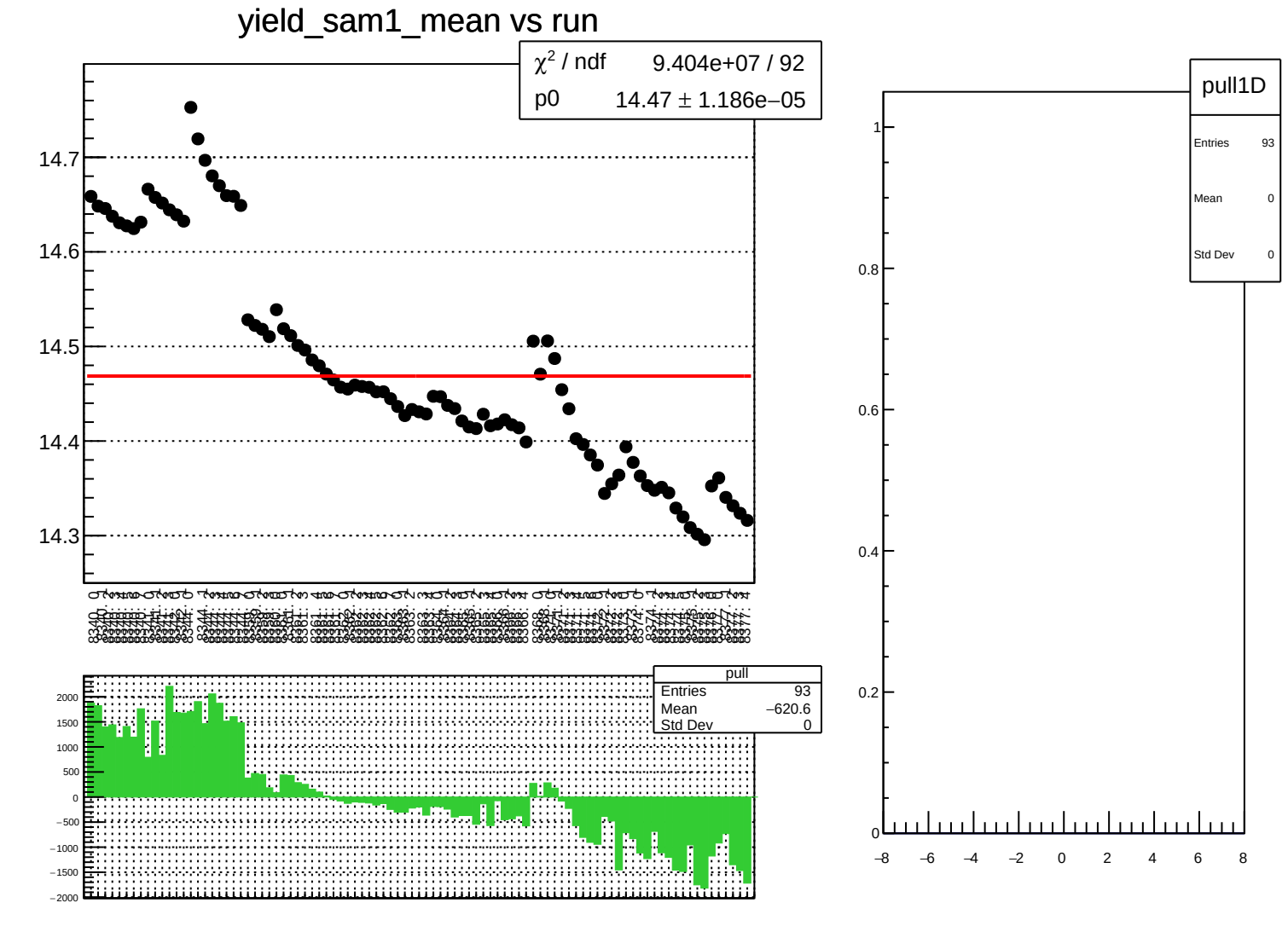

pull1D
Entries 93
Mean 0.004102
Std Dev 1.099

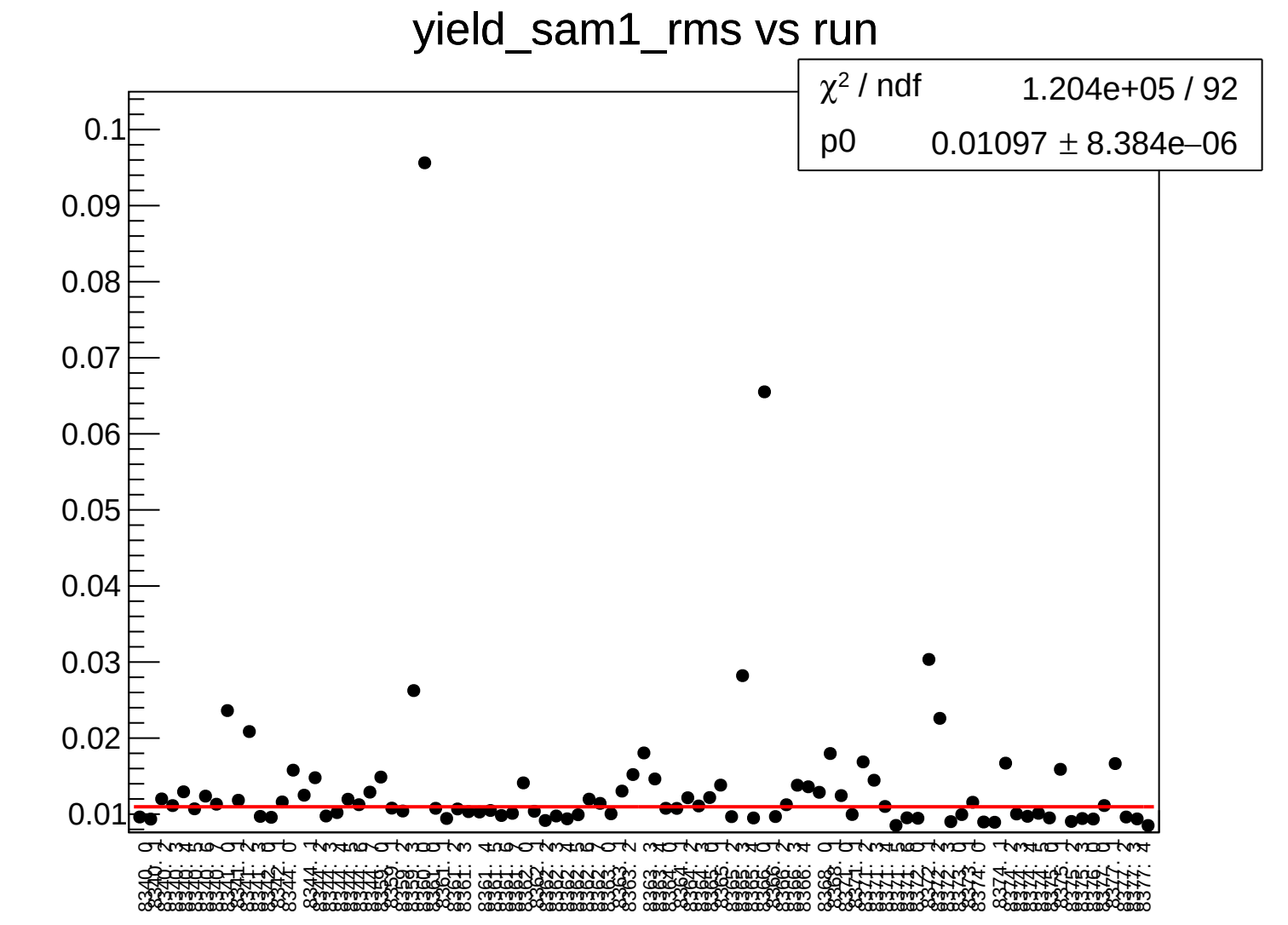

diff_bpm1i06X_rms vs run
χ² / ndf 2972 / 92
p0 1786 ± 1.32
1900
1800
1700
1600
1500
1400
1300

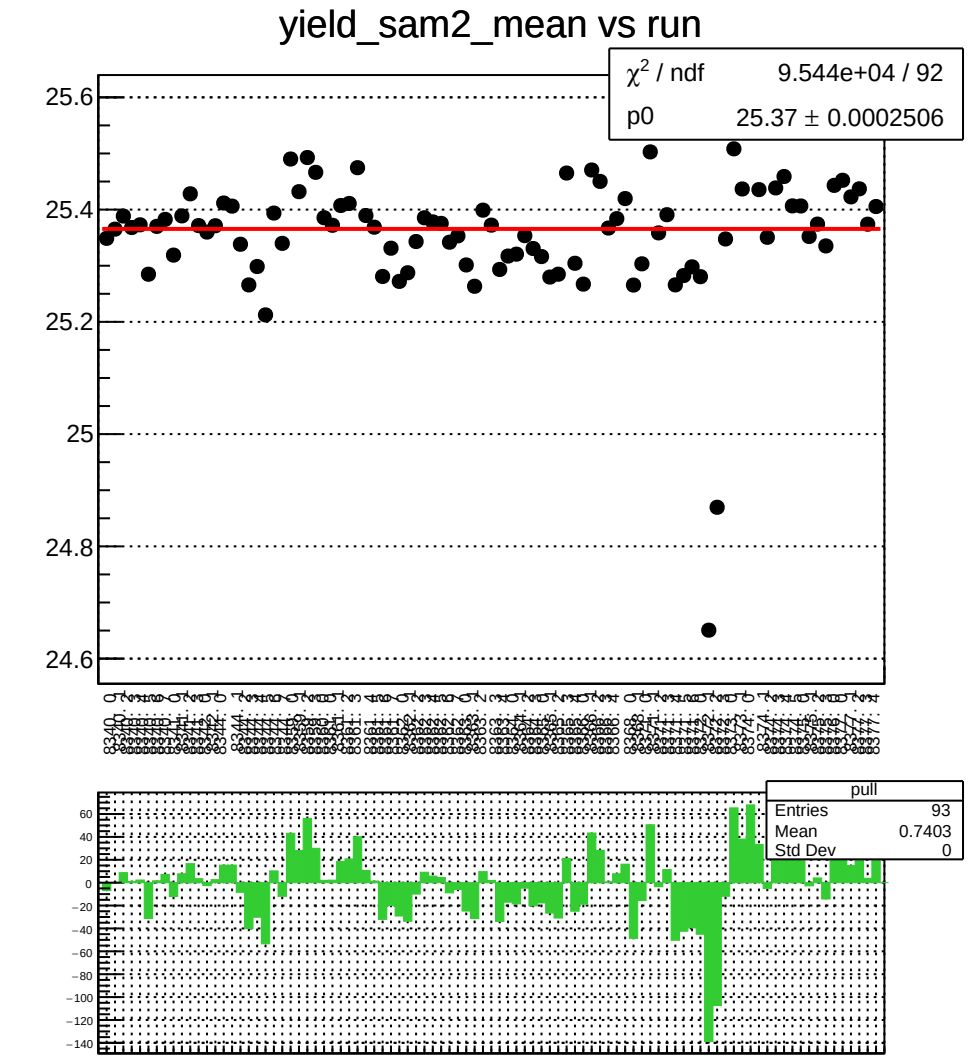

diff_bpm1i06Y_mean vs run
χ² / ndf 88.58 / 92
p0 −81.4 ± 2.066
pull
Entries 93
Mean −425.8
Std Dev 0

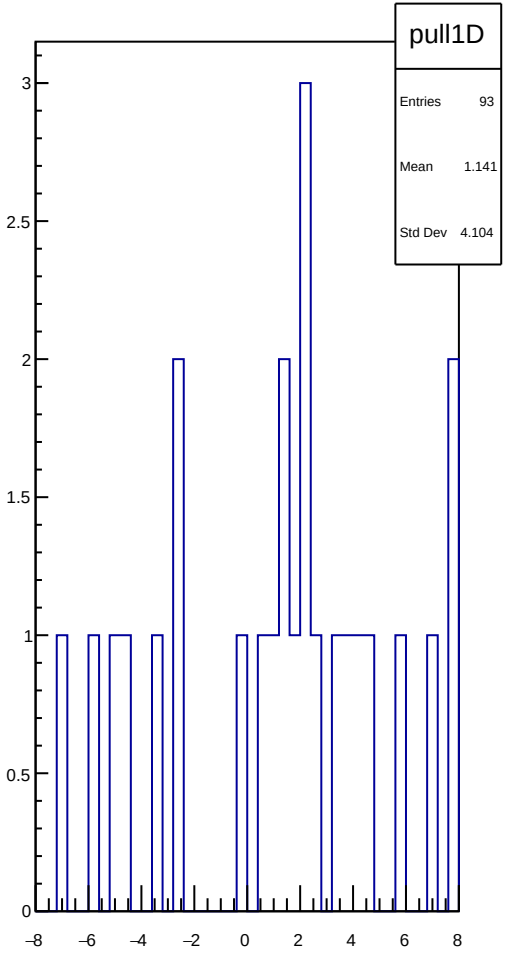

pull1D
Entries 93
Mean −0.002484
Std Dev 0.9759

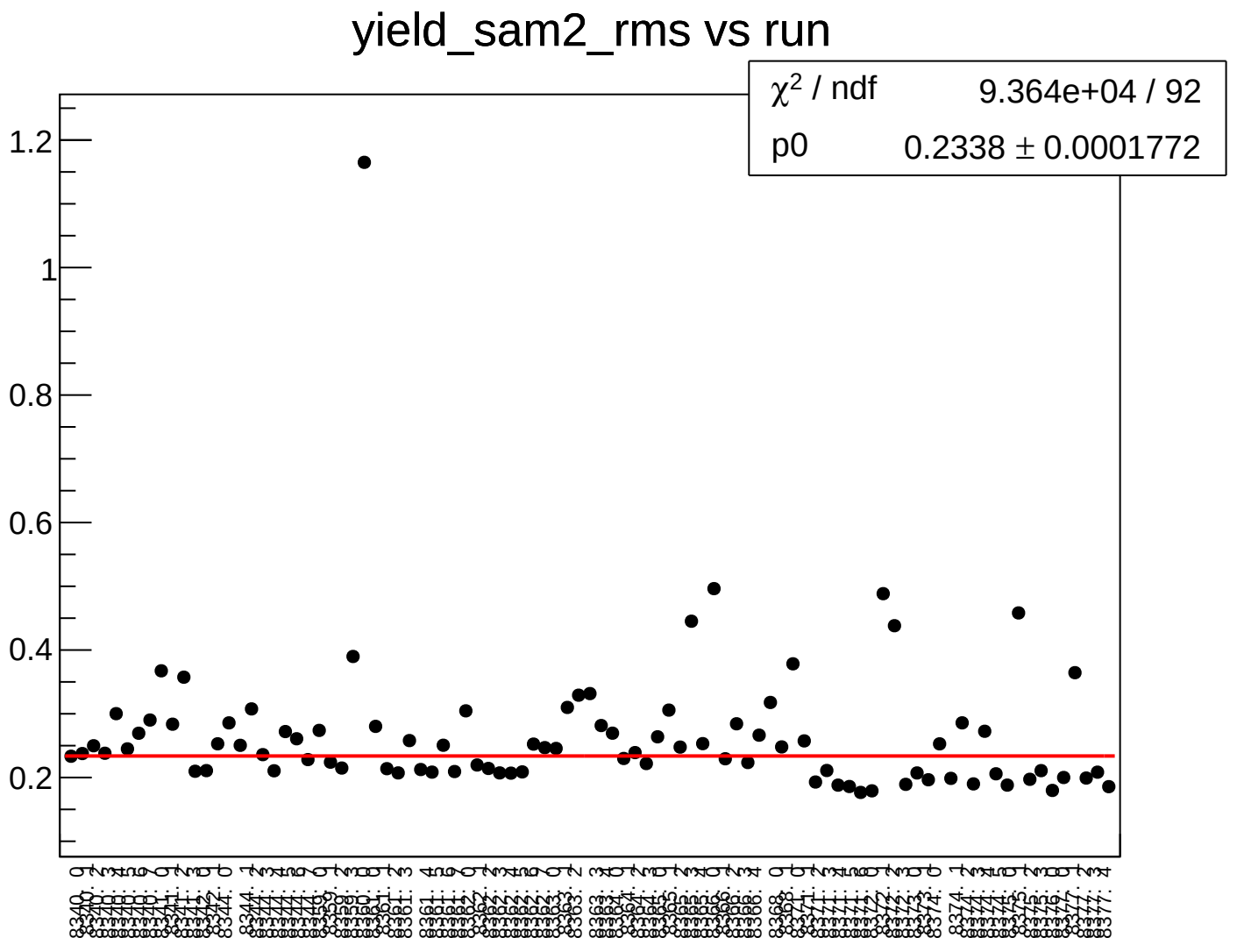

diff_bpm1i06Y_rms vs run
χ² / ndf 5737 / 92
p0 1975 ± 1.461
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

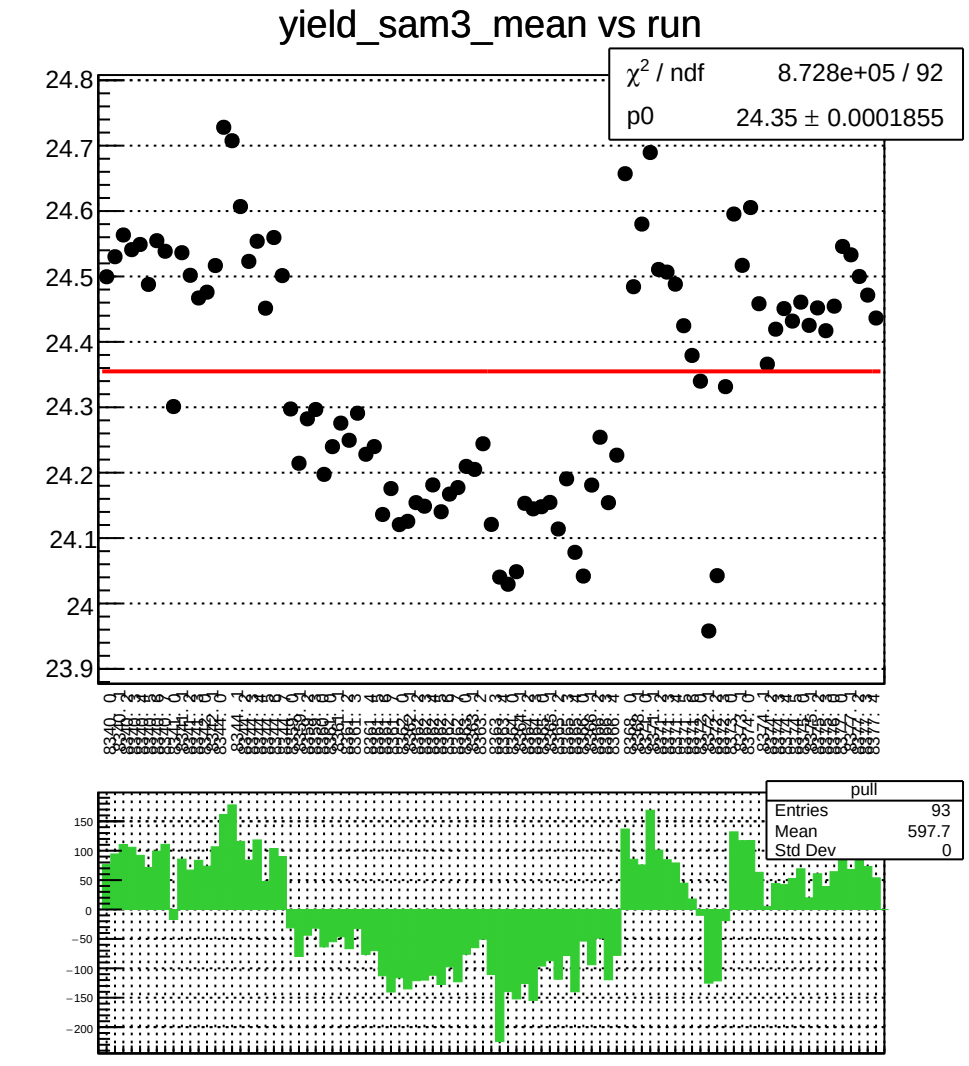

yield_sam1_mean vs run
χ² / ndf 9.404e+07 / 92
p0 14.47 ± 1.186e−05
14.7
14.6
14.5
14.4
14.3
pull
Entries 93
Mean −620.6
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

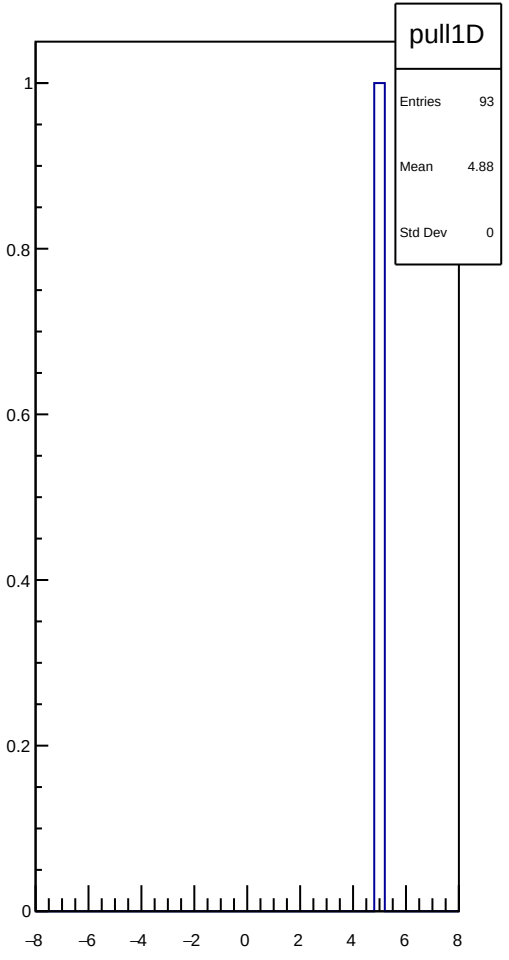

yield_sam1_rms vs run
χ² / ndf 1.204e+05 / 92
p0 0.01097 ± 8.384e–06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

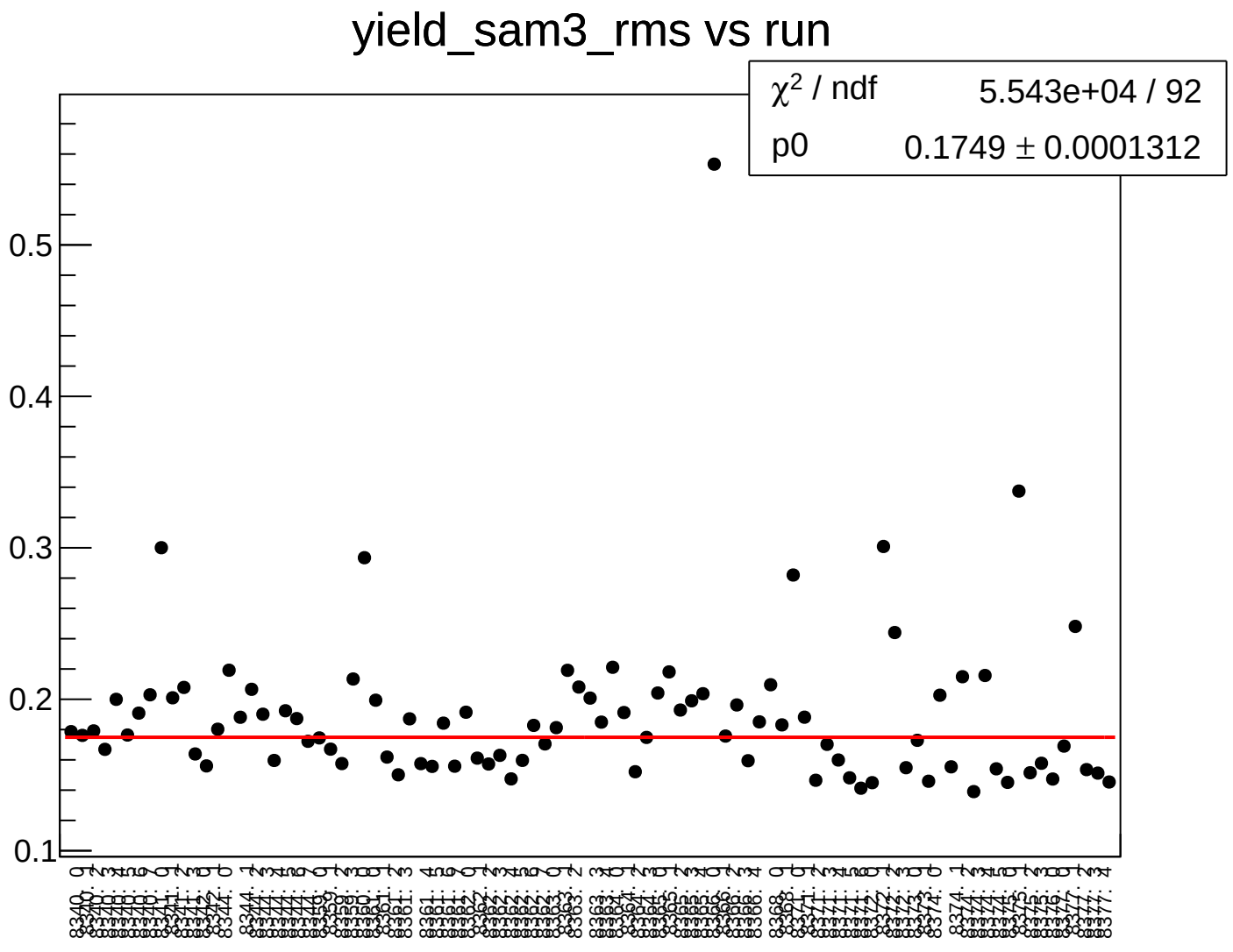

yield_sam2_mean vs run
χ² / ndf 9.544e+04 / 92
p0 25.37 ± 0.0002506
25.6
25.4
25.2
25
24.8
24.6
pull
Entries 93
Mean 0.7403
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

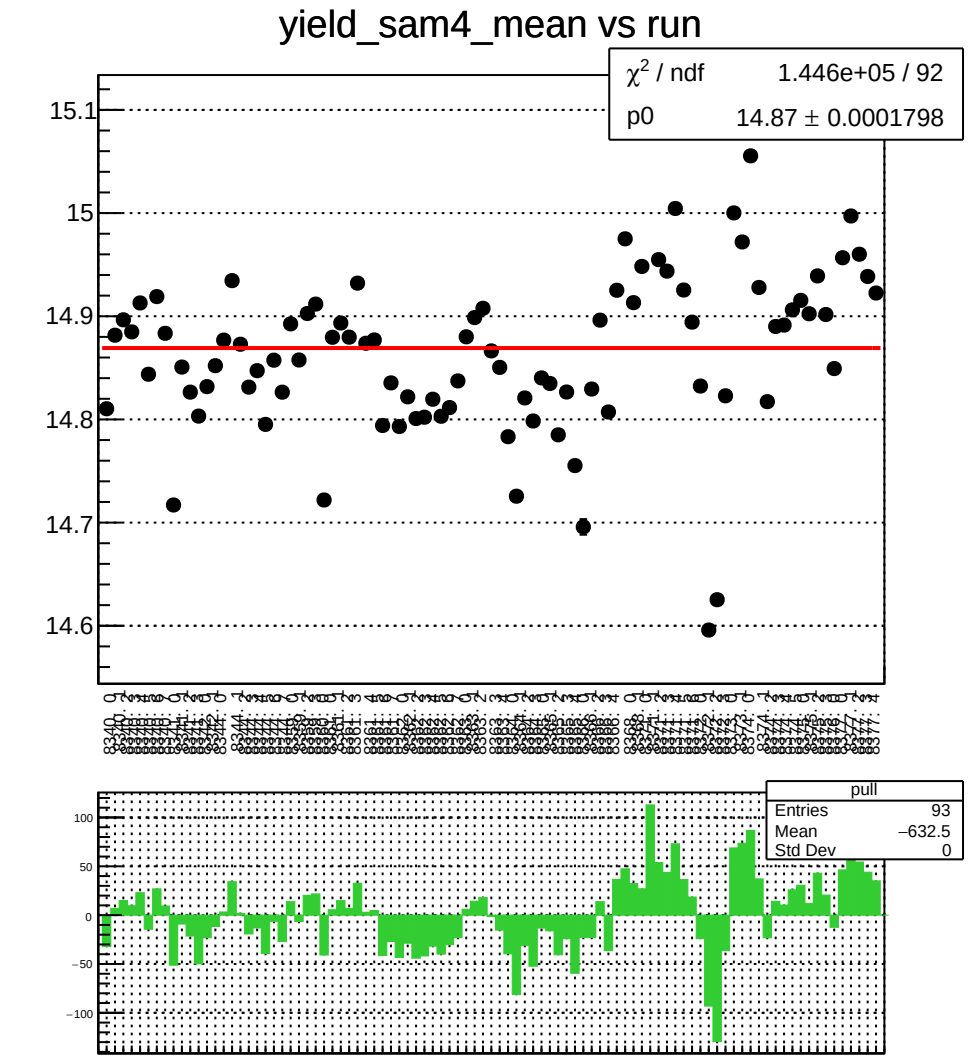

pull1D
Entries 93
Mean 1.141
Std Dev 4.104
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

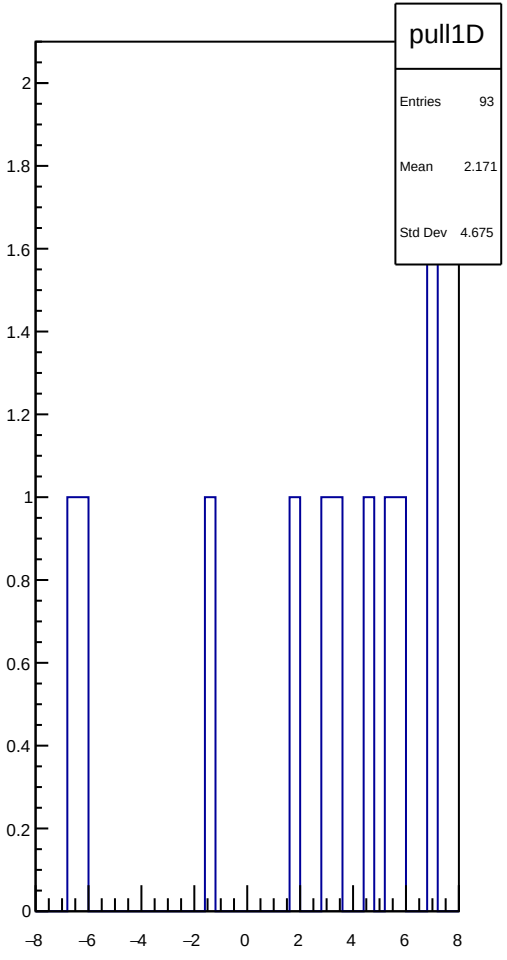

yield_sam2_rms vs run
χ² / ndf 9.364e+04 / 92
p0 0.2338 ± 0.0001772
1.2
1
0.8
0.6
0.4
0.2

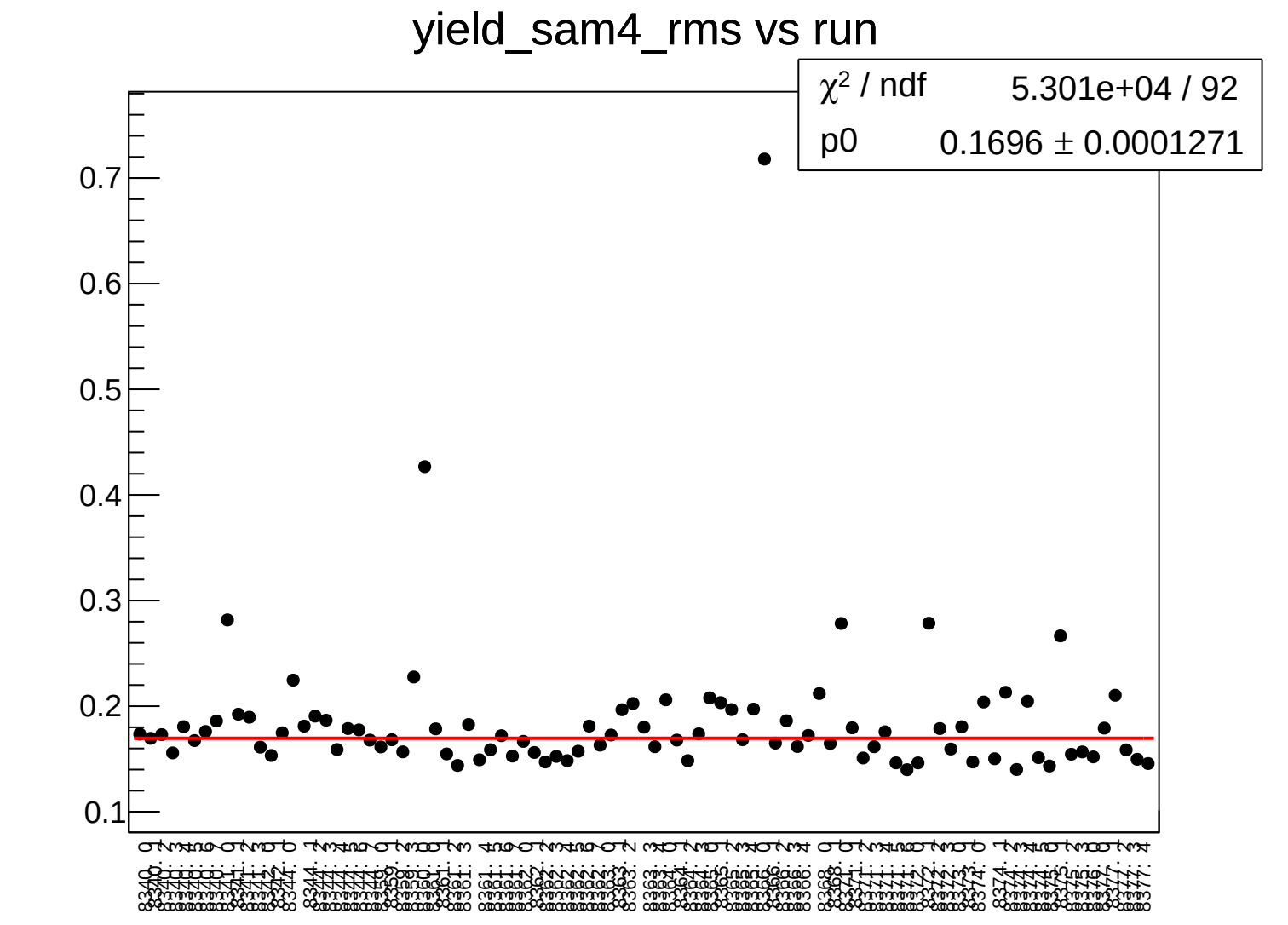

yield_sam3_mean vs run
χ² / ndf 8.728e+05 / 92
p0 24.35 ± 0.0001855
24.8
24.7
24.6
24.5
24.4
24.3
24.2
24.1
24
23.9
pull
Entries 93
Mean 597.7
Std Dev 0
150
100
50
0
−50
−100
−150
−200

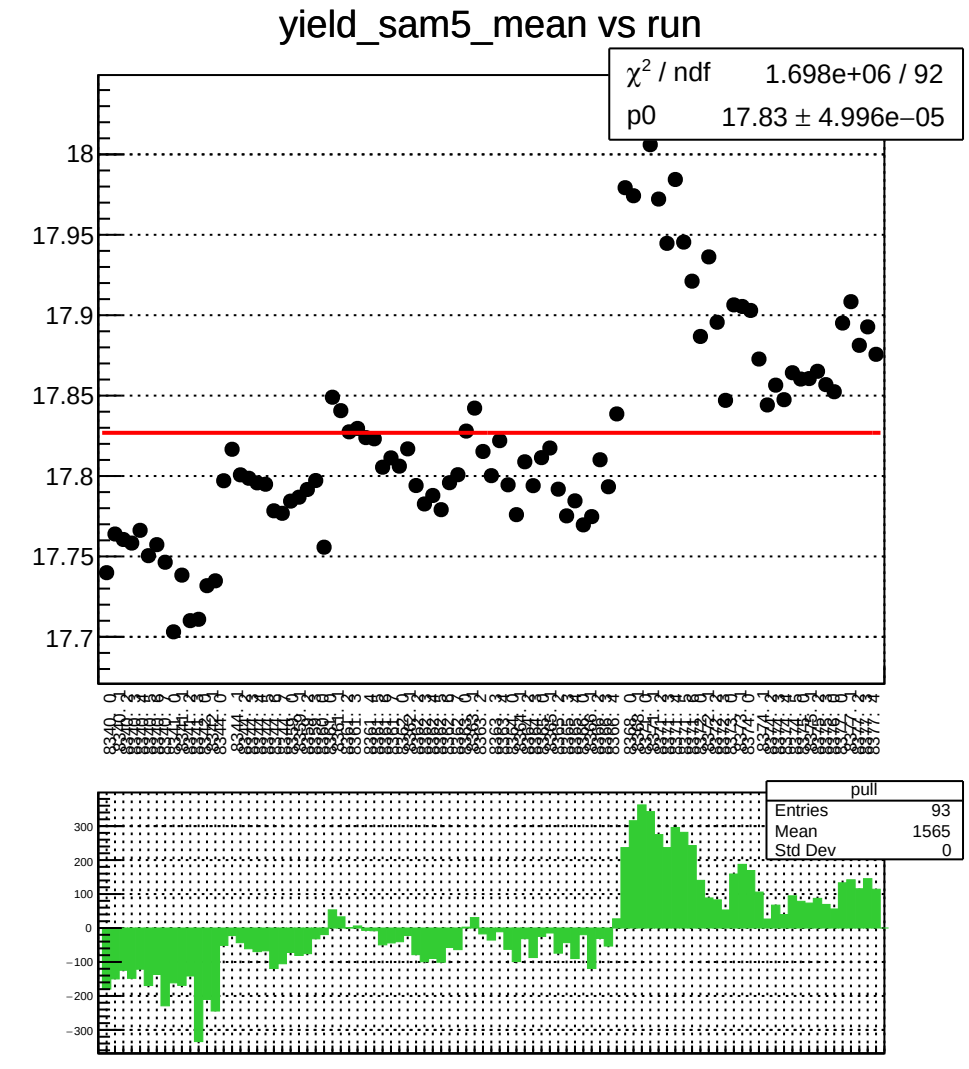

pull1D
Entries 93
Mean 4.88
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

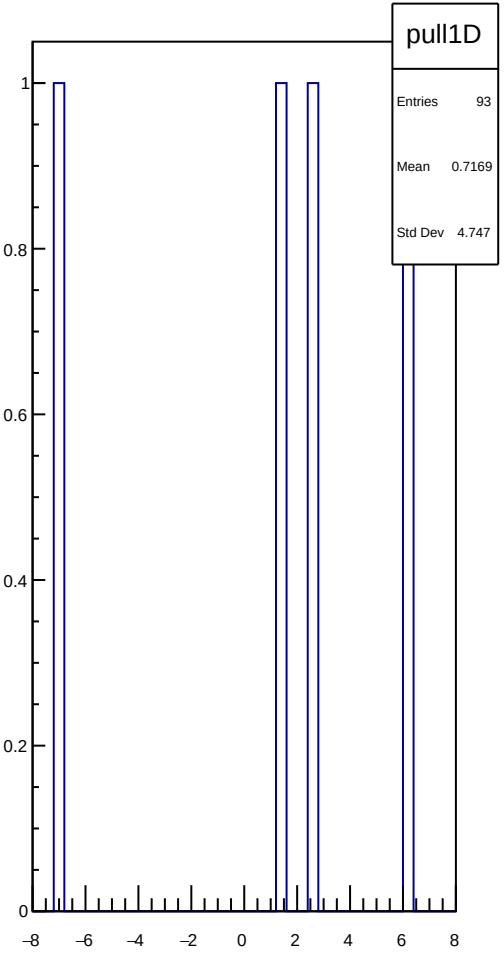

yield_sam3_rms vs run
χ² / ndf 5.543e+04 / 92
p0 0.1749 ± 0.0001312
0.5
0.4
0.3
0.2
0.1

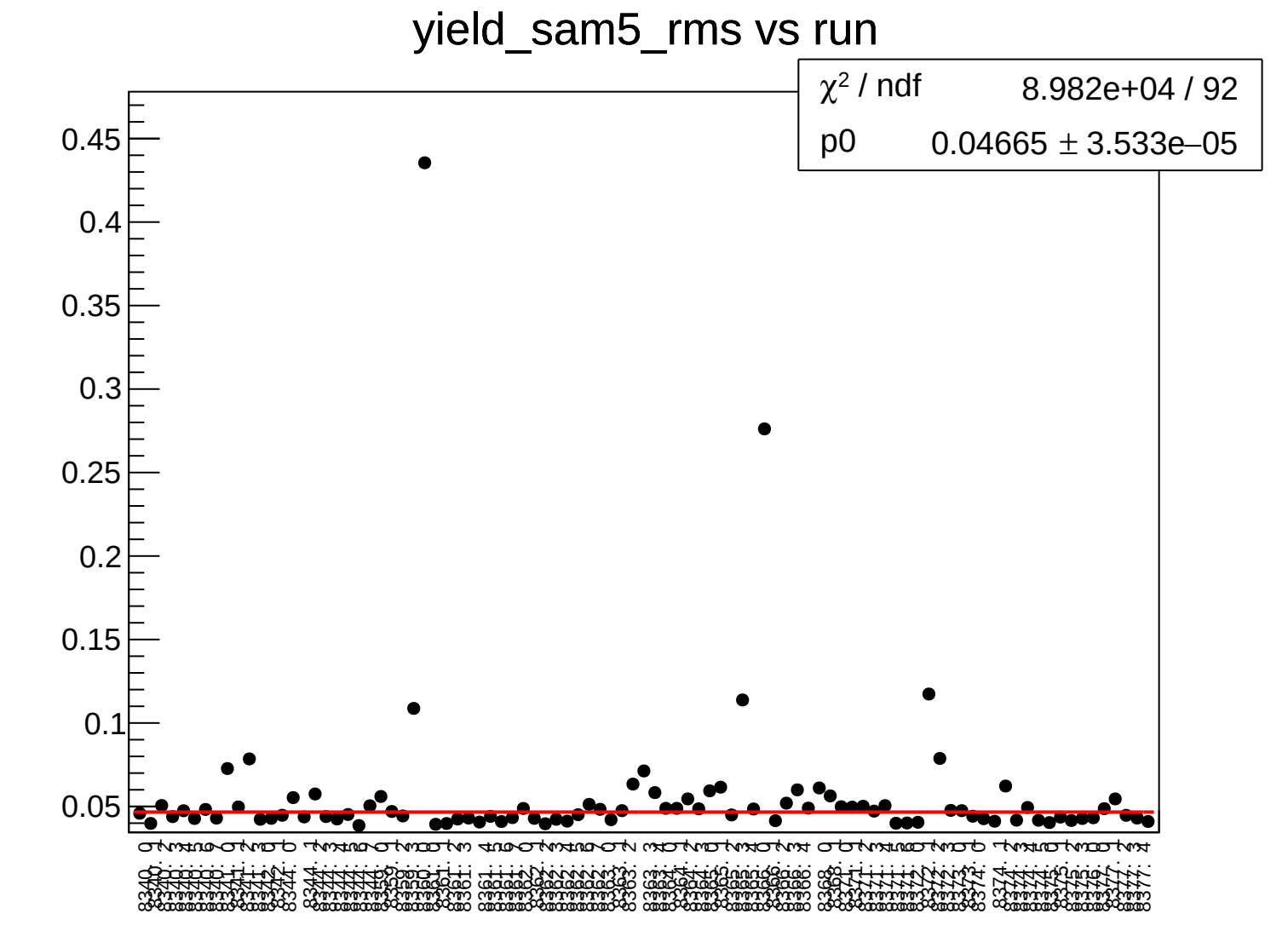

yield_sam4_mean vs run
χ² / ndf 1.446e+05 / 92
p0 14.87 ± 0.0001798
15.1
15
14.9
14.8
14.7
14.6
pull
Entries 93
Mean −632.5
Std Dev 0
100
50
0
−50
−100

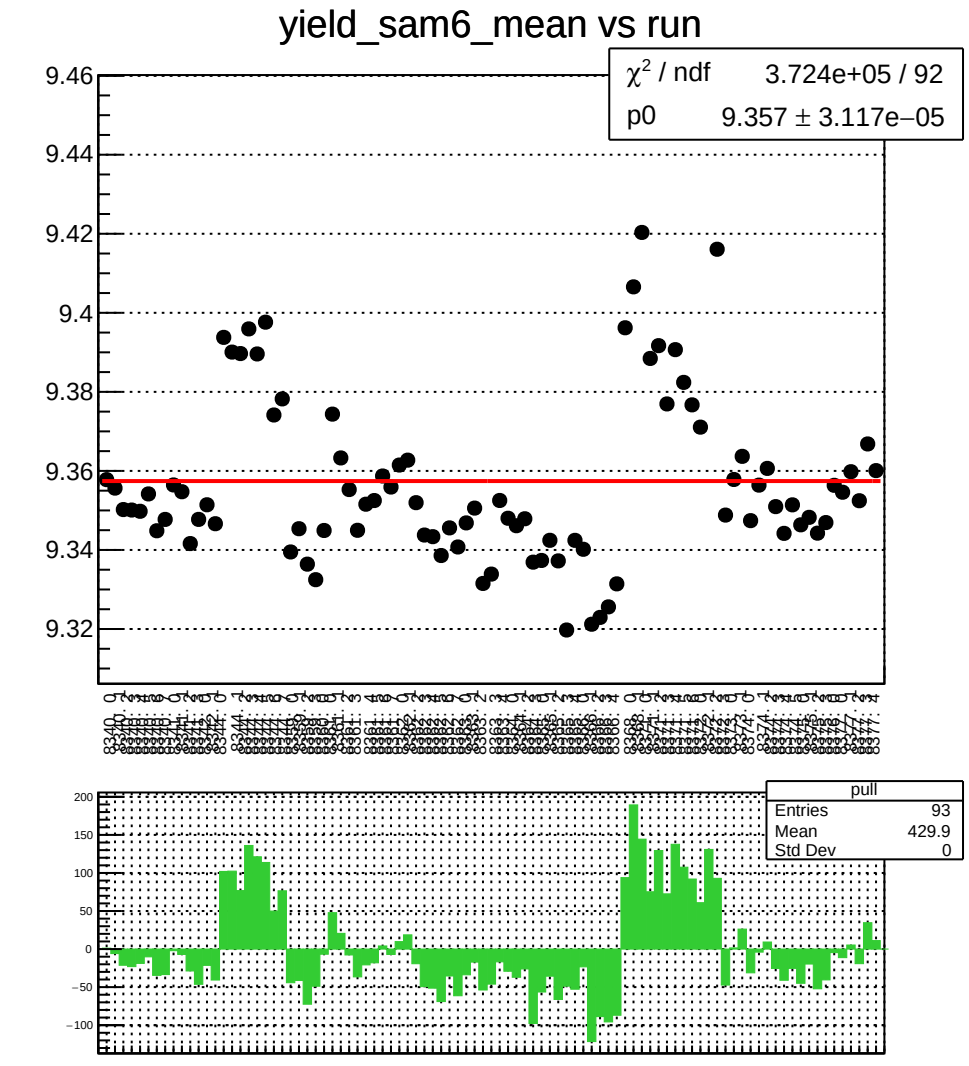

pull1D
Entries 93
Mean 2.171
Std Dev 4.675
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

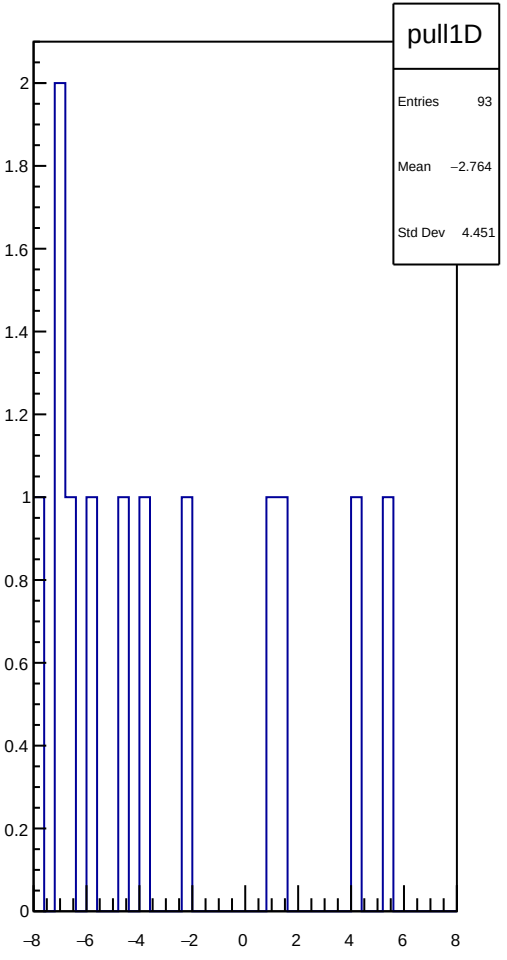

yield_sam4_rms vs run
χ² / ndf 5.301e+04 / 92
p0 0.1696 ± 0.0001271
0.7
0.6
0.5
0.4
0.3
0.2
0.1

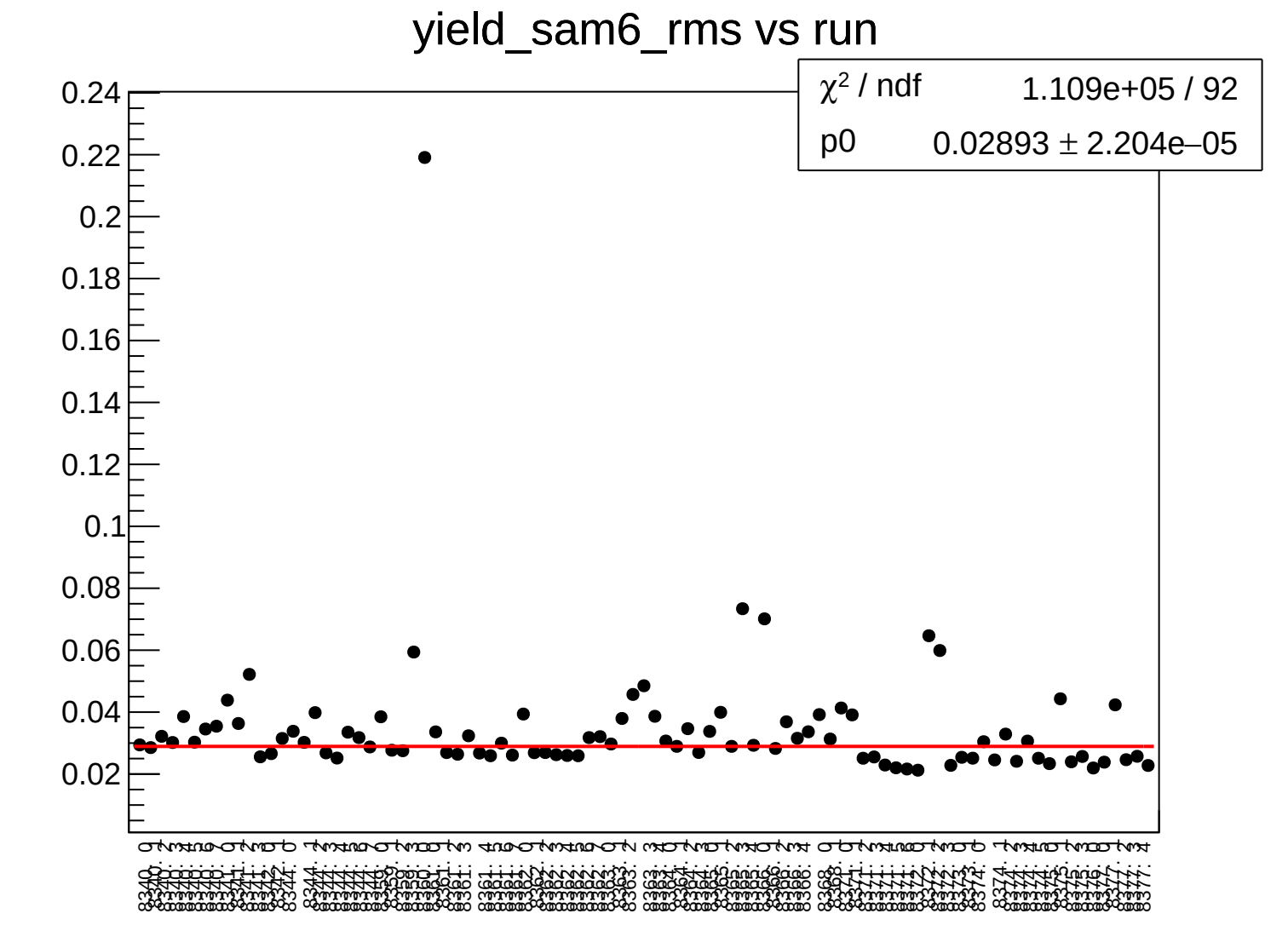

yield_sam5_mean vs run
χ² / ndf 1.698e+06 / 92
p0 17.83 ± 4.996e−05
18
17.95
17.9
17.85
17.8
17.75
17.7
pull
Entries 93
Mean 1565
Std Dev 0
300
200
100
0
−100
−200
−300

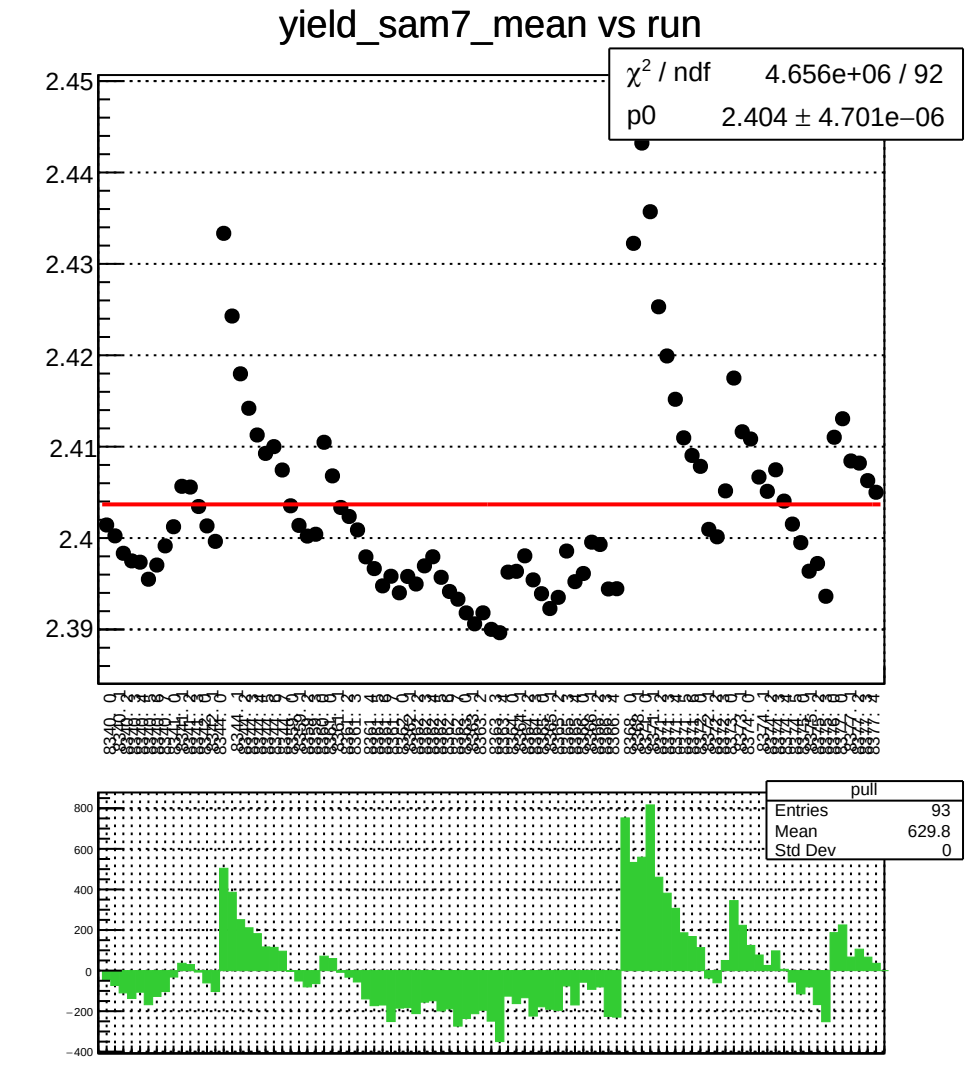

pull1D
Entries 93
Mean 0.7169
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

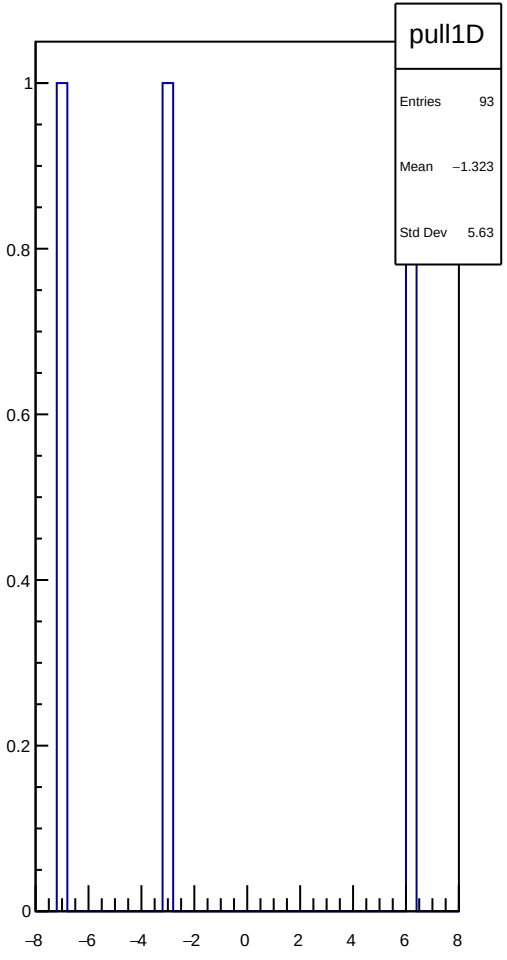

yield_sam5_rms vs run
χ² / ndf 8.982e+04 / 92
p0 0.04665 ± 3.533e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

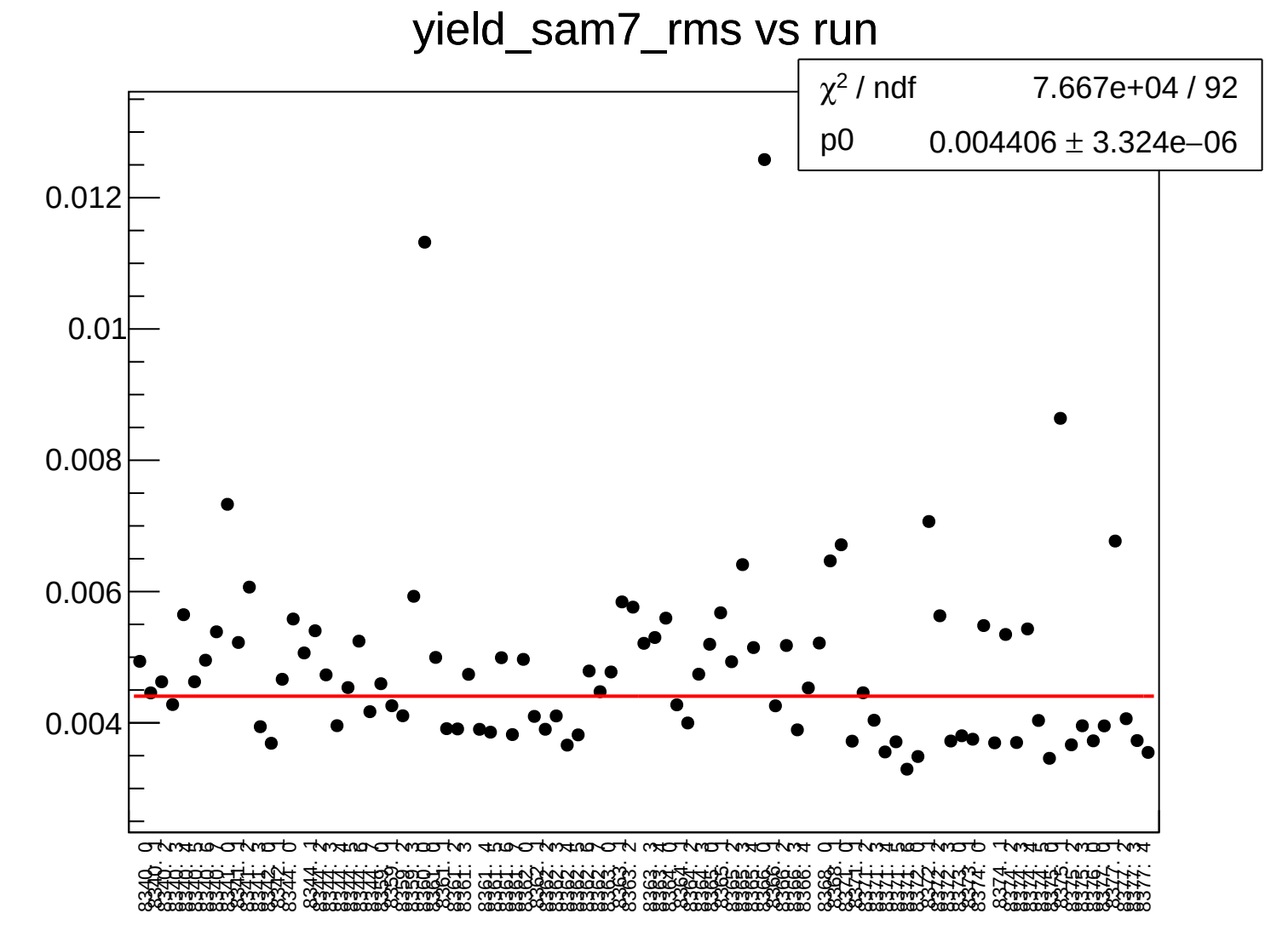

yield_sam6_mean vs run
χ² / ndf 3.724e+05 / 92
p0 9.357 ± 3.117e−05
9.46
9.44
9.42
9.4
9.38
9.36
9.34
9.32
pull
Entries 93
Mean 429.9
Std Dev 0
200
150
100
50
0
−50
−100

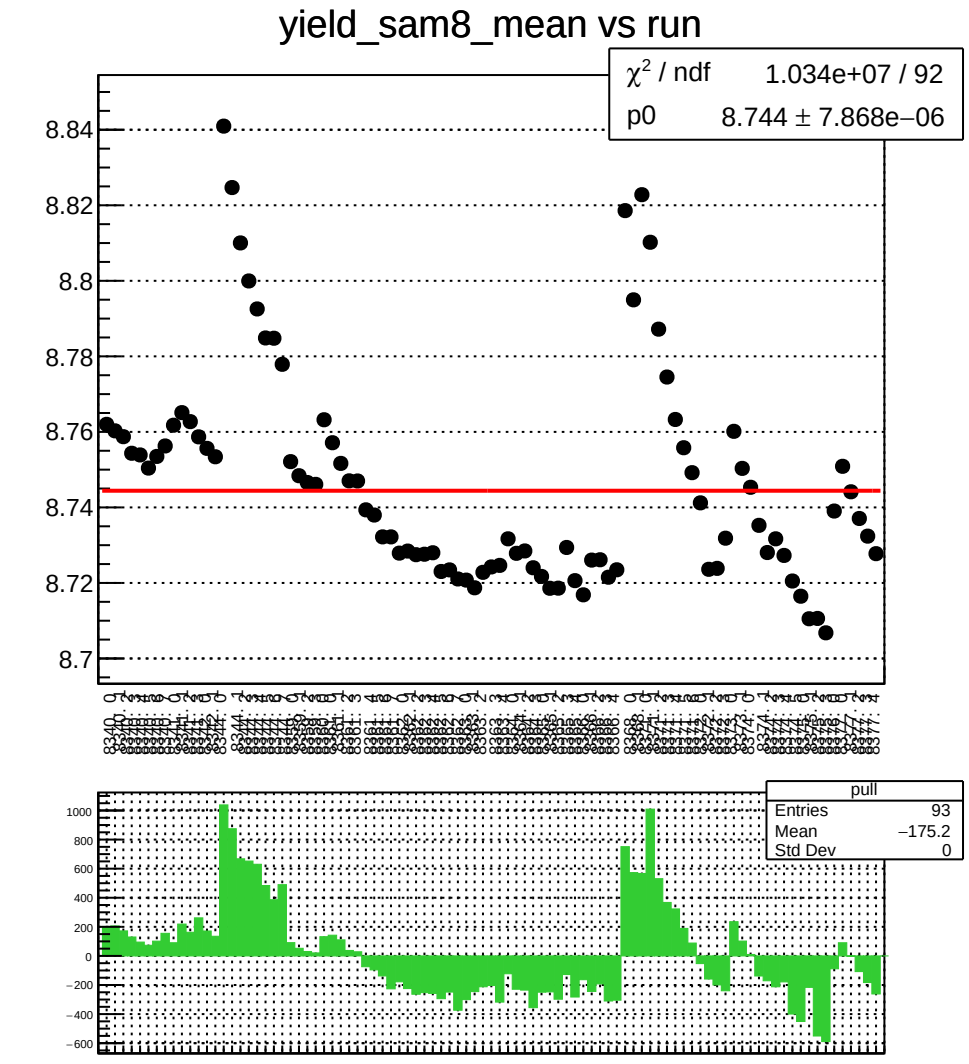

pull1D
Entries 93
Mean −2.764
Std Dev 4.451
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

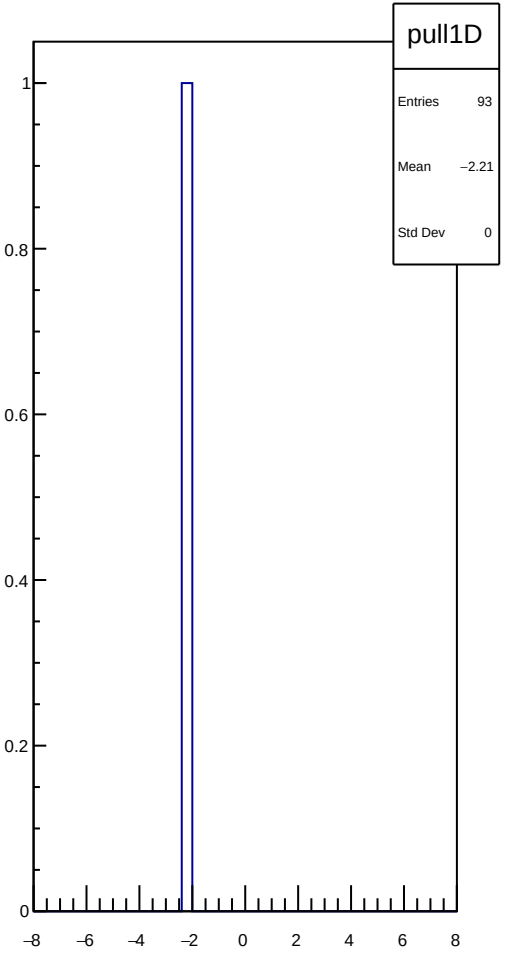

yield_sam6_rms vs run
χ² / ndf 1.109e+05 / 92
p0 0.02893 ± 2.204e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

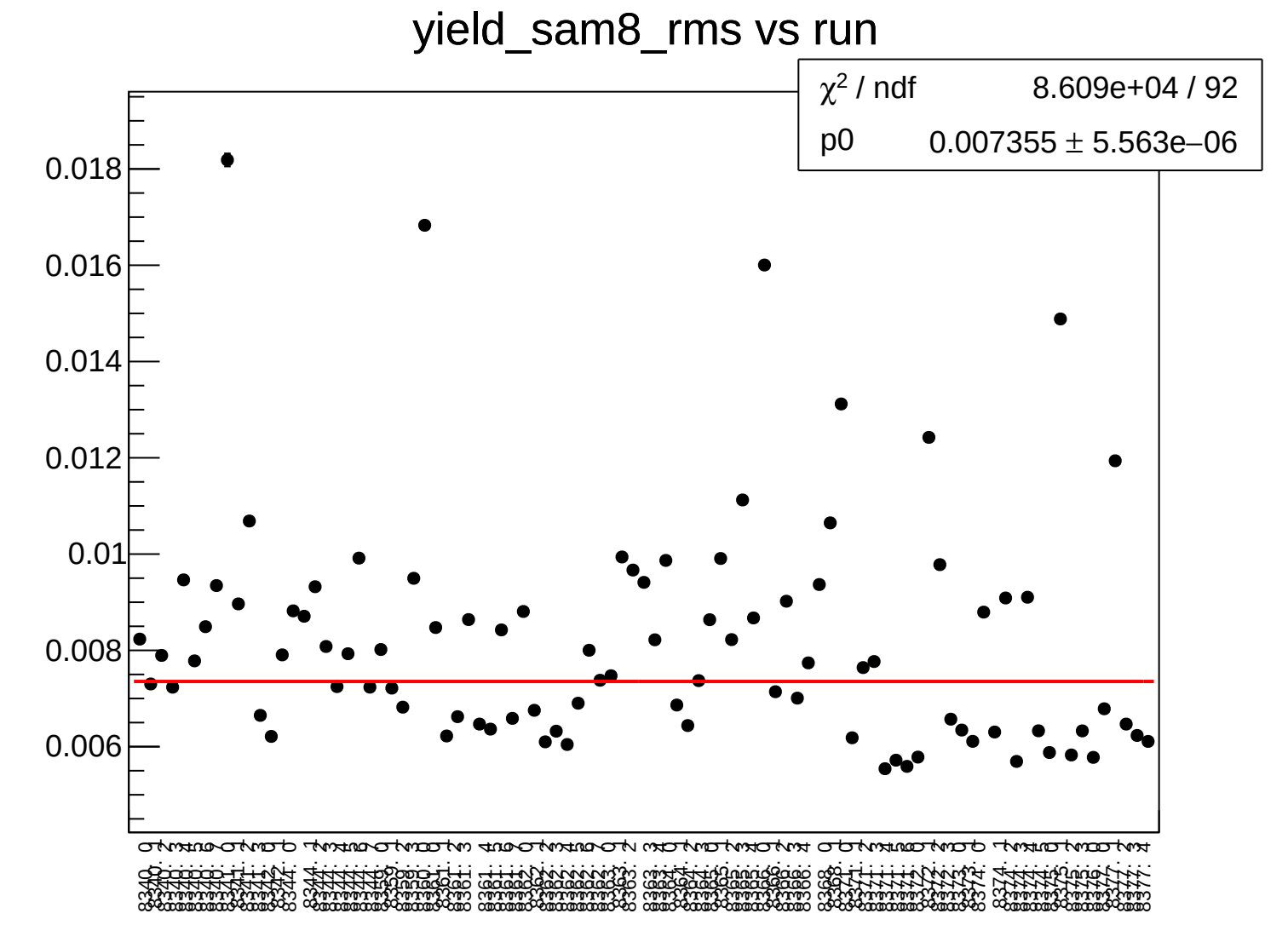

yield_sam7_mean vs run
χ² / ndf 4.656e+06 / 92
p0 2.404 ± 4.701e−06
2.45
2.44
2.43
2.42
2.41
2.4
2.39
pull
Entries 93
Mean 629.8
Std Dev 0
800
600
400
200
0
−200
−400

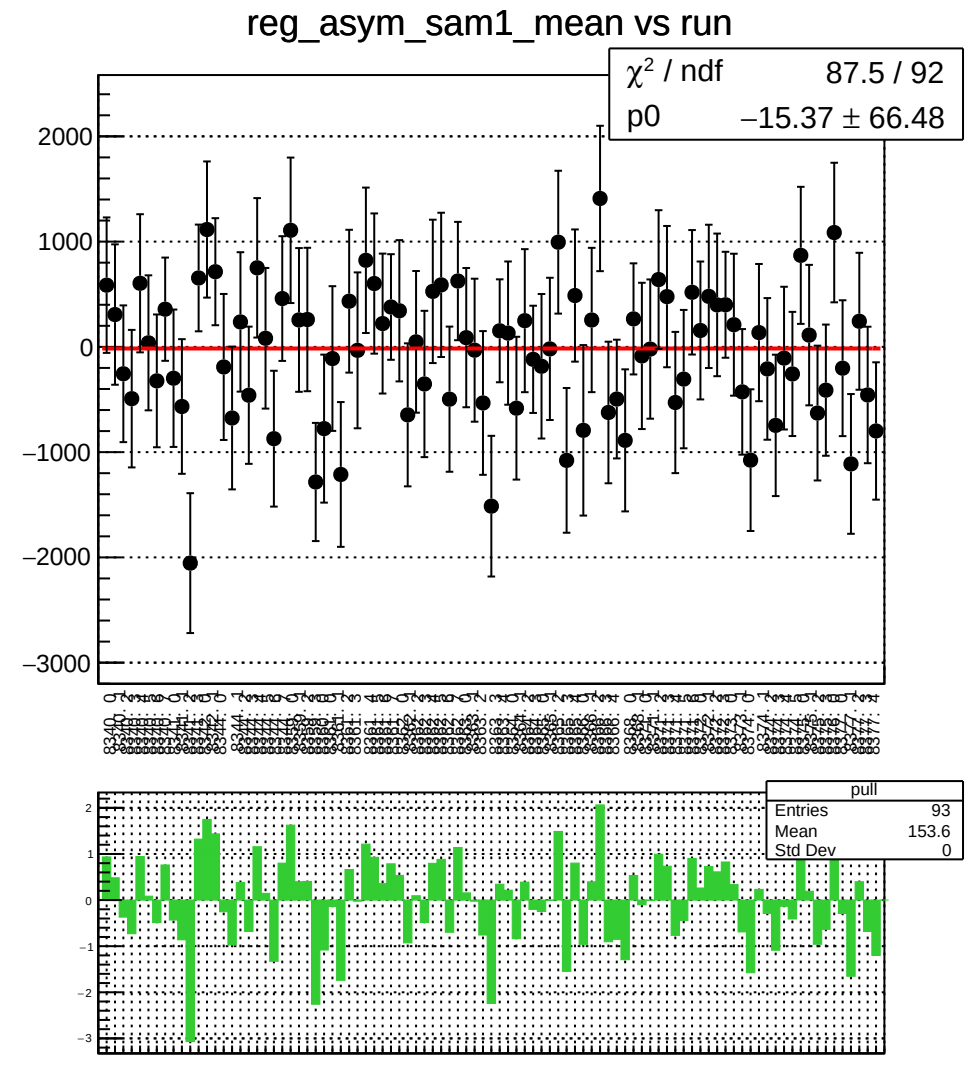

pull1D
Entries 93
Mean −1.323
Std Dev 5.63
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

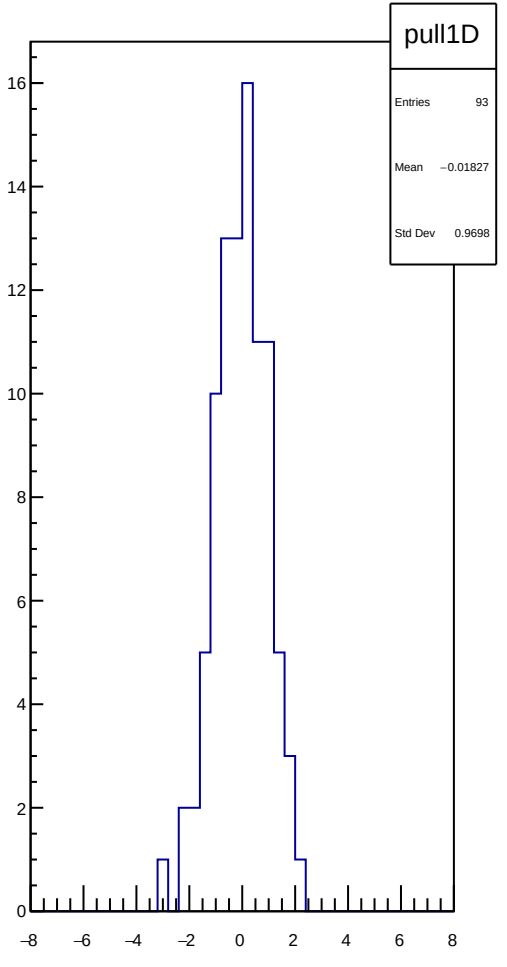

yield_sam7_rms vs run
χ^2 / ndf 7.667e+04 / 92
p0 0.004406 ± 3.324e−06
0.012
0.01
0.008
0.006
0.004

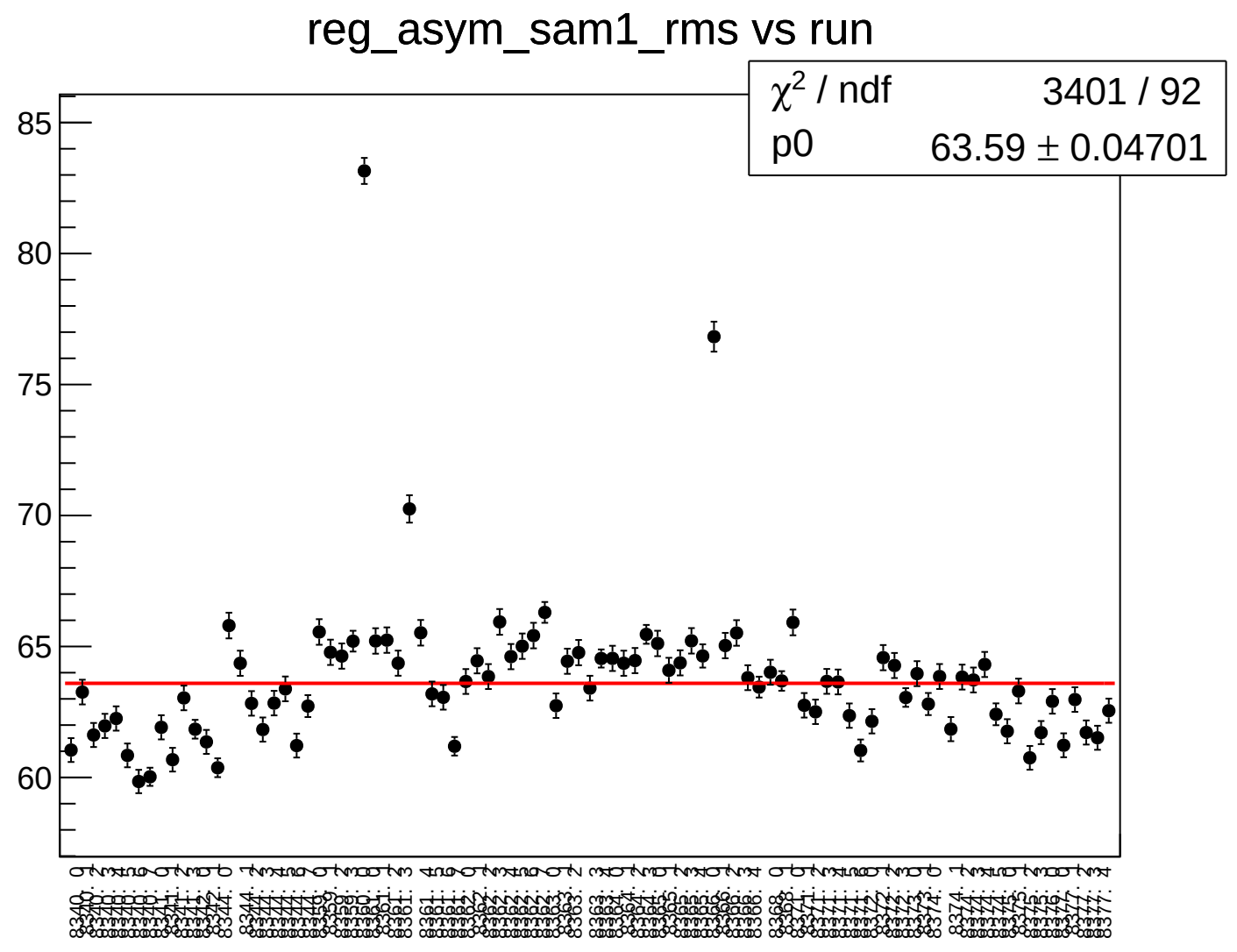

yield_sam8_mean vs run
χ² / ndf 1.034e+07 / 92
p0 8.744 ± 7.868e−06
8.84
8.82
8.8
8.78
8.76
8.74
8.72
8.7
pull
Entries 93
Mean −175.2
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

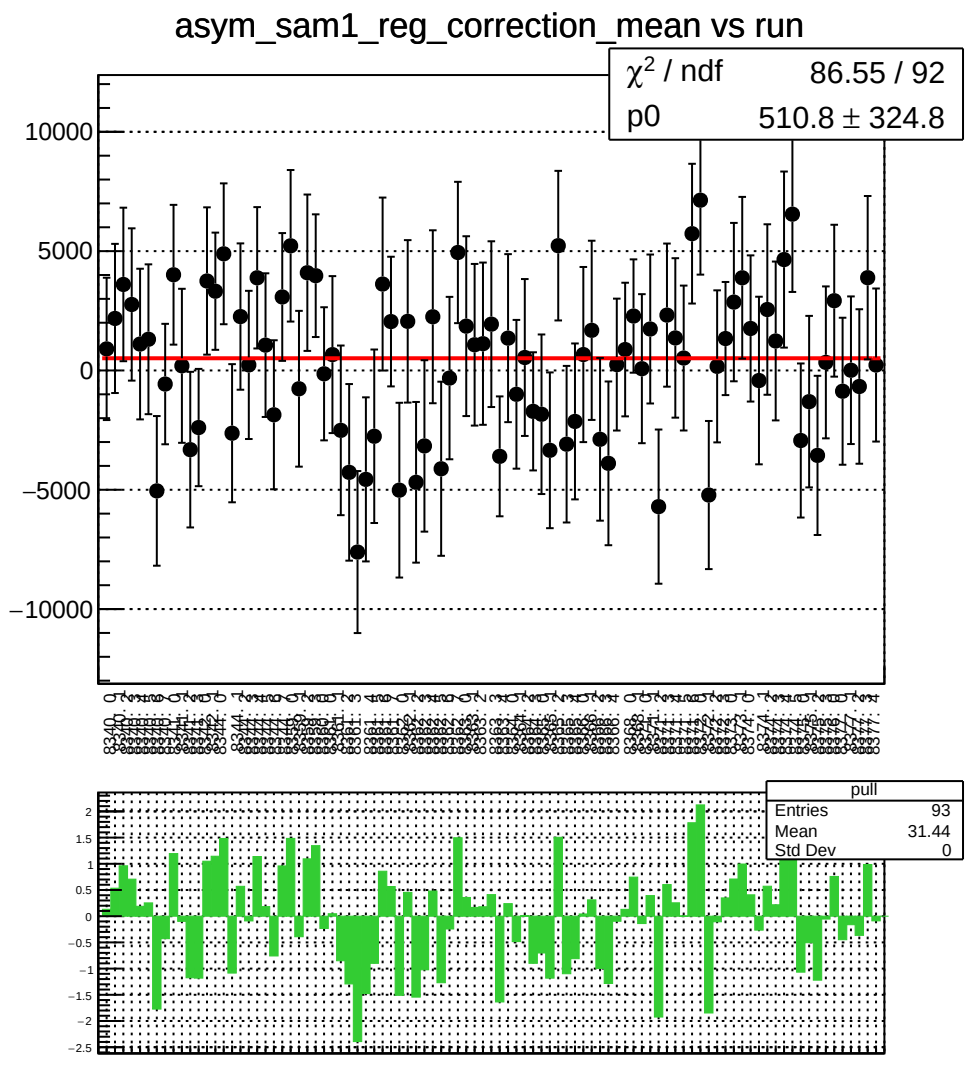

pull1D
Entries 93
Mean −2.21
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

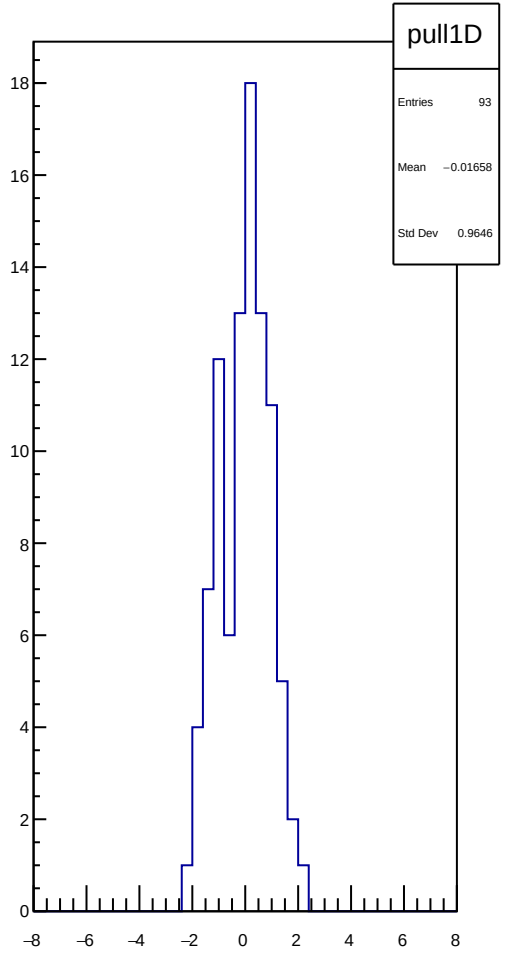

yield_sam8_rms vs run
χ² / ndf 8.609e+04 / 92
p0 0.007355 ± 5.563e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

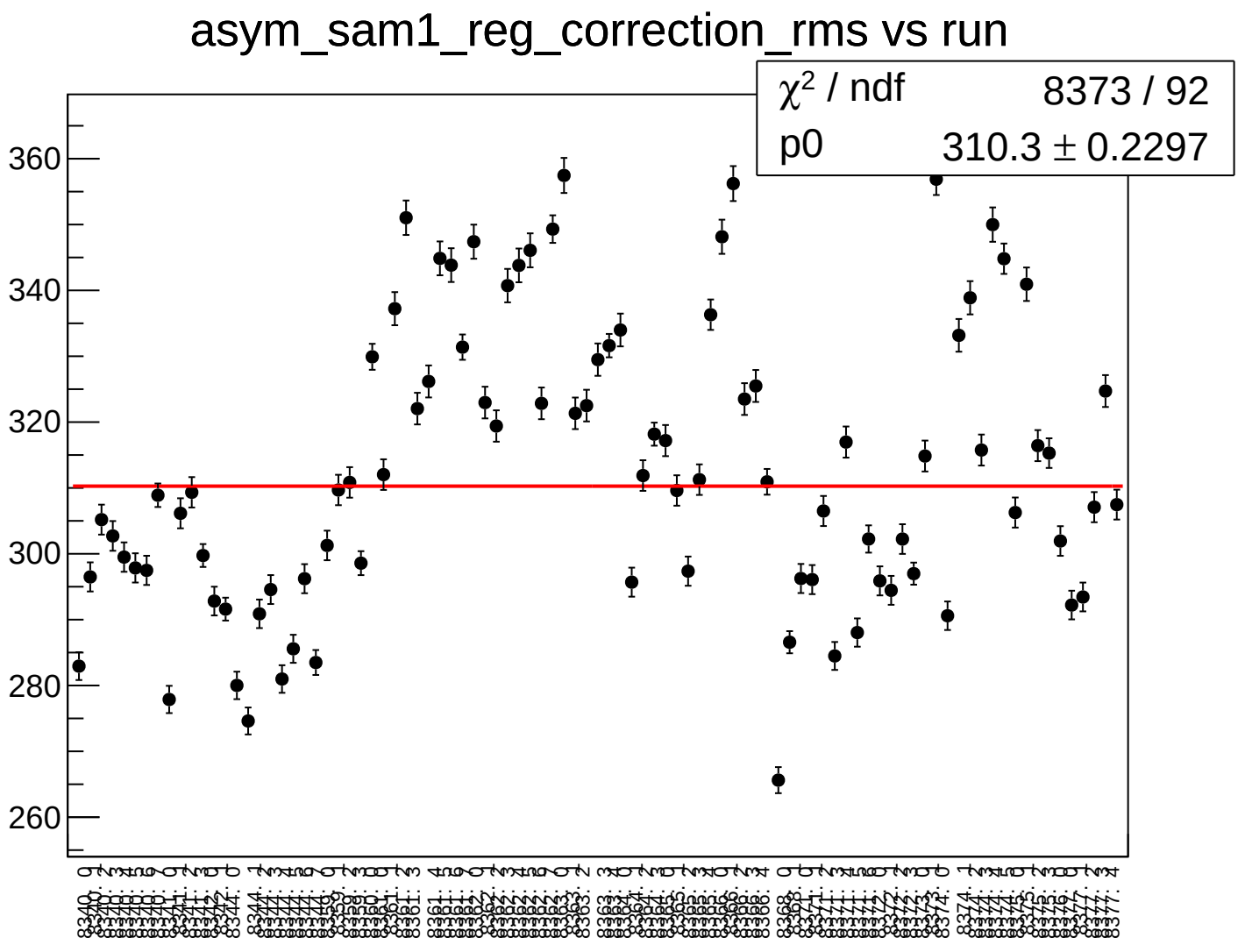

reg_asym_sam1_mean vs run
χ² / ndf 87.5 / 92
p0 −15.37 ± 66.48
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 153.6
Std Dev 0
2
1
0
−1
−2
−3

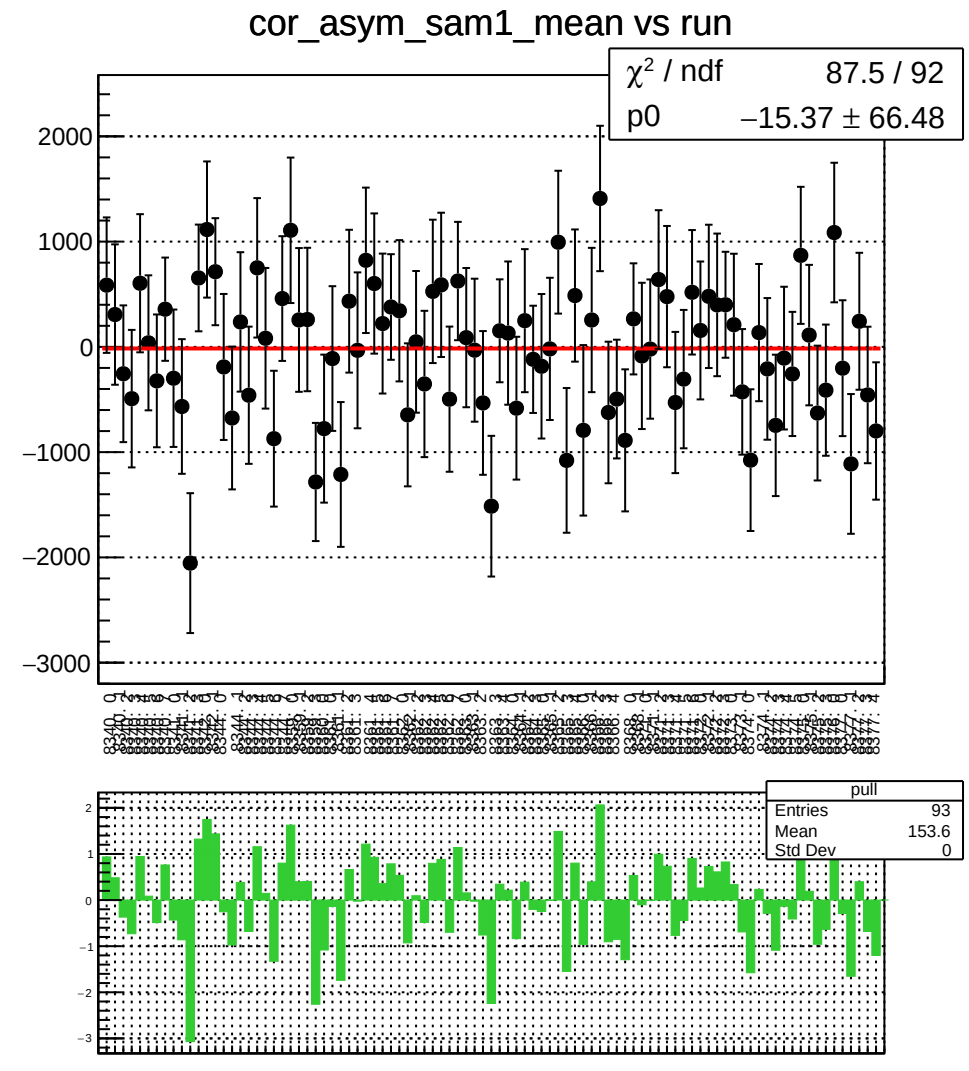

pull1D
Entries 93
Mean −0.01827
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

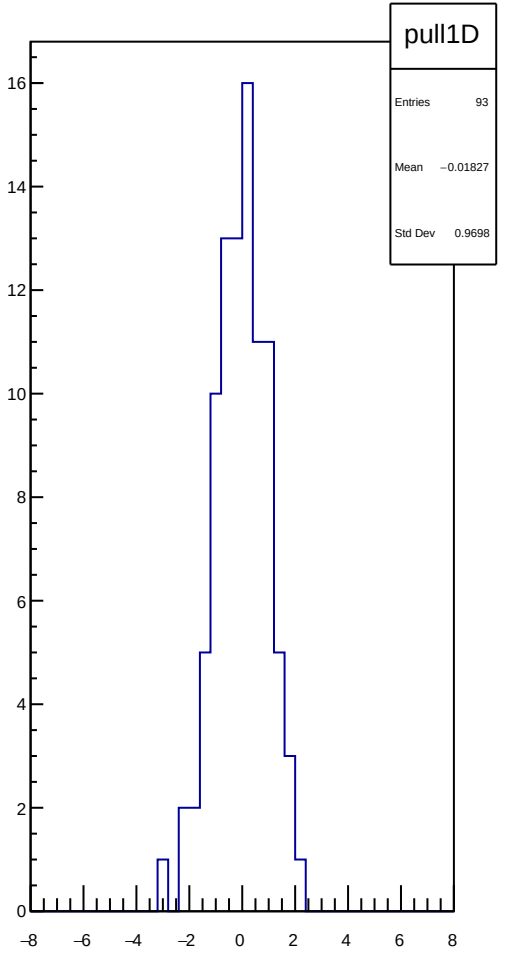

reg_asym_sam1_rms vs run
χ^2 / ndf 3401 / 92
p0 63.59 ± 0.04701
85
80
75
70
65
60

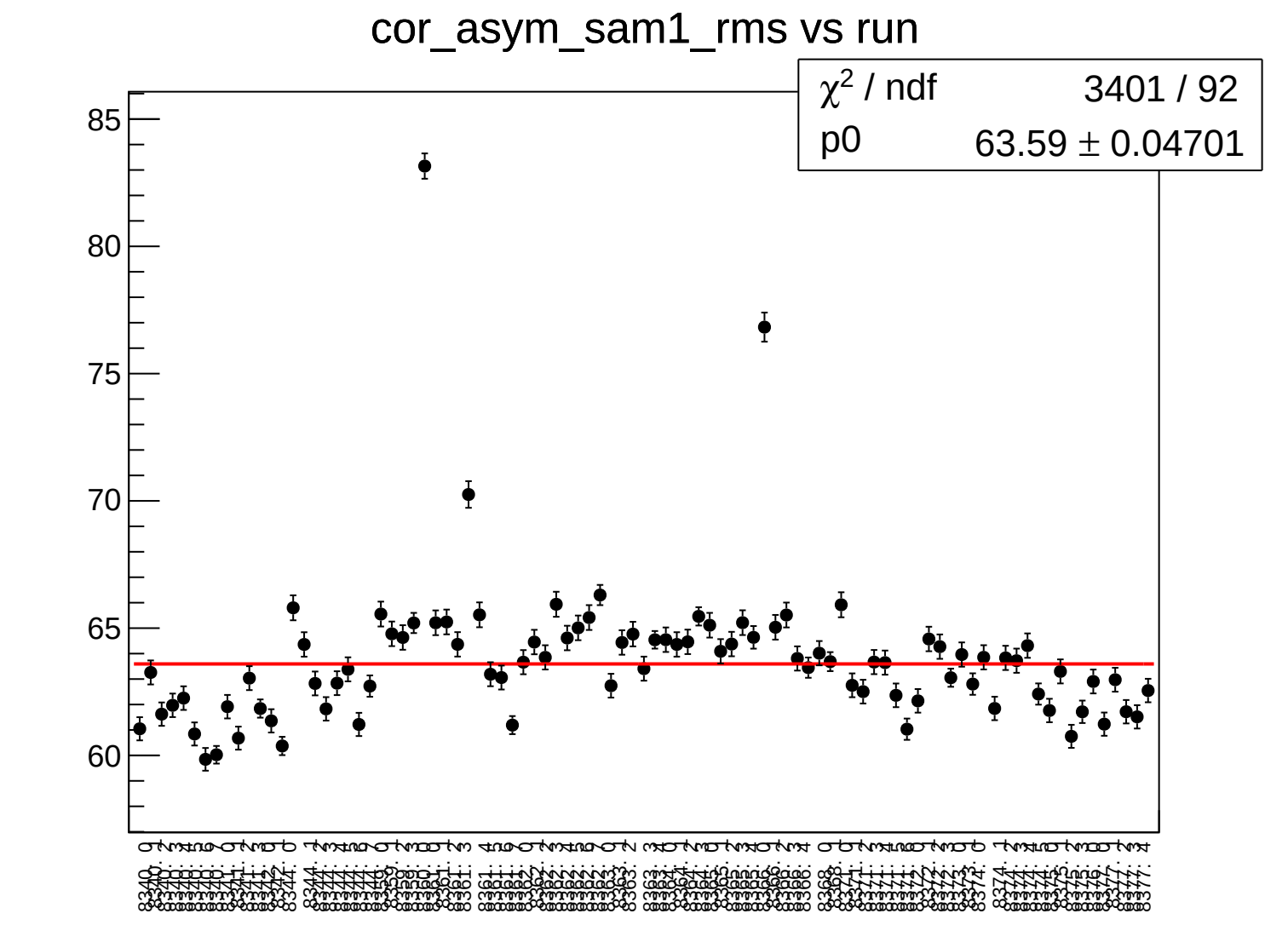

asym_sam1_reg_correction_mean vs run
χ² / ndf 86.55 / 92
p0 510.8 ± 324.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 31.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

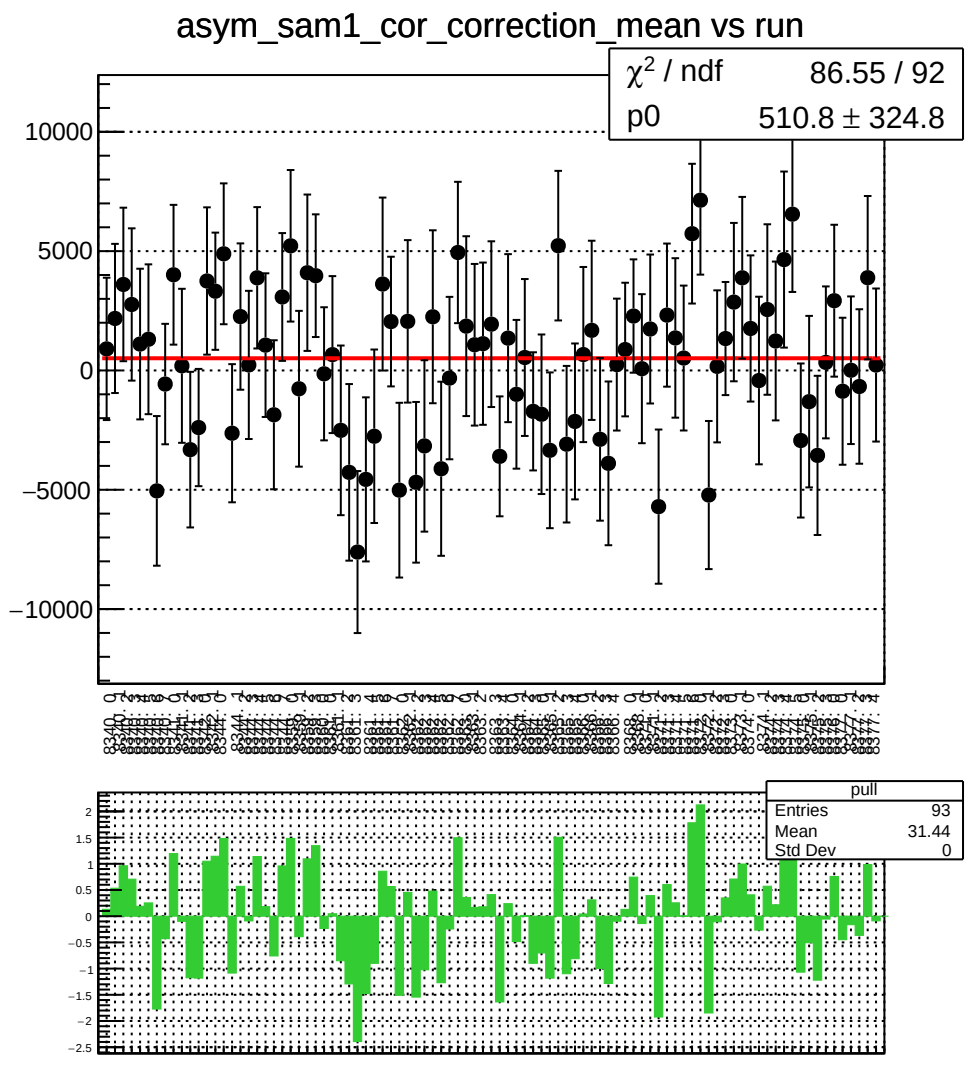

pull1D
Entries 93
Mean −0.01658
Std Dev 0.9646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

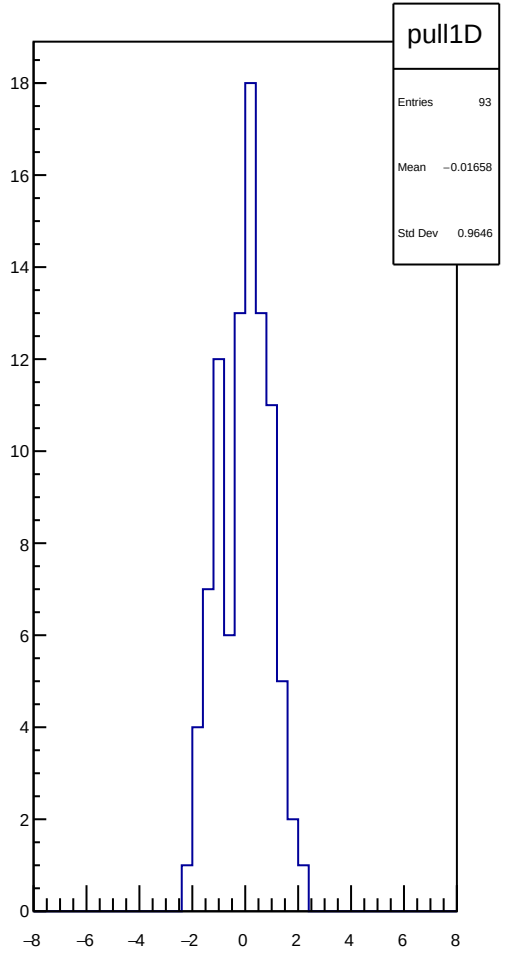

asym_sam1_reg_correction_rms vs run
χ² / ndf 8373 / 92
p0 310.3 ± 0.2297
360
340
320
300
280
260

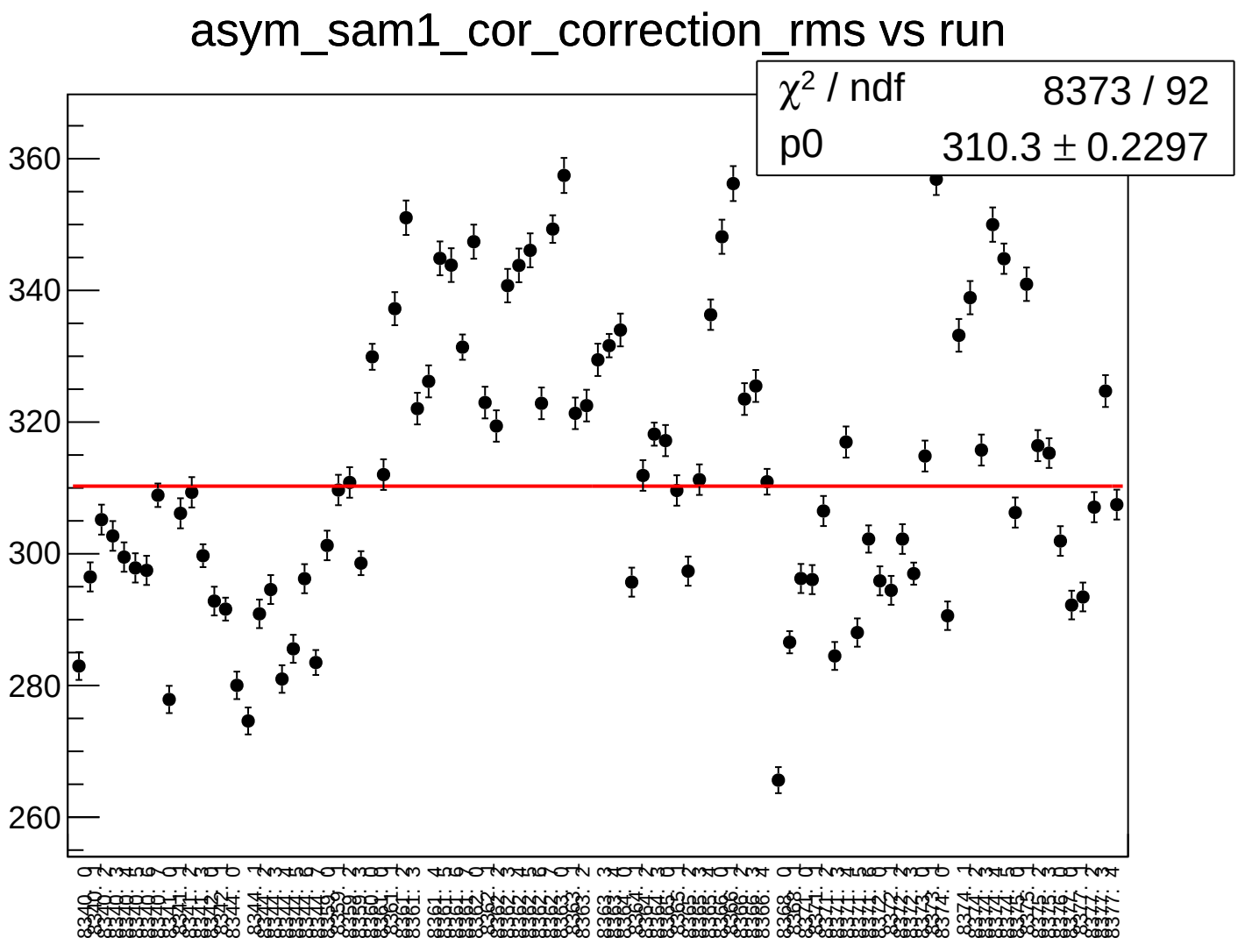

cor_asym_sam1_mean vs run
χ² / ndf 87.5 / 92
p0 −15.37 ± 66.48
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 153.6
Std Dev 0
2
1
0
−1
−2
−3

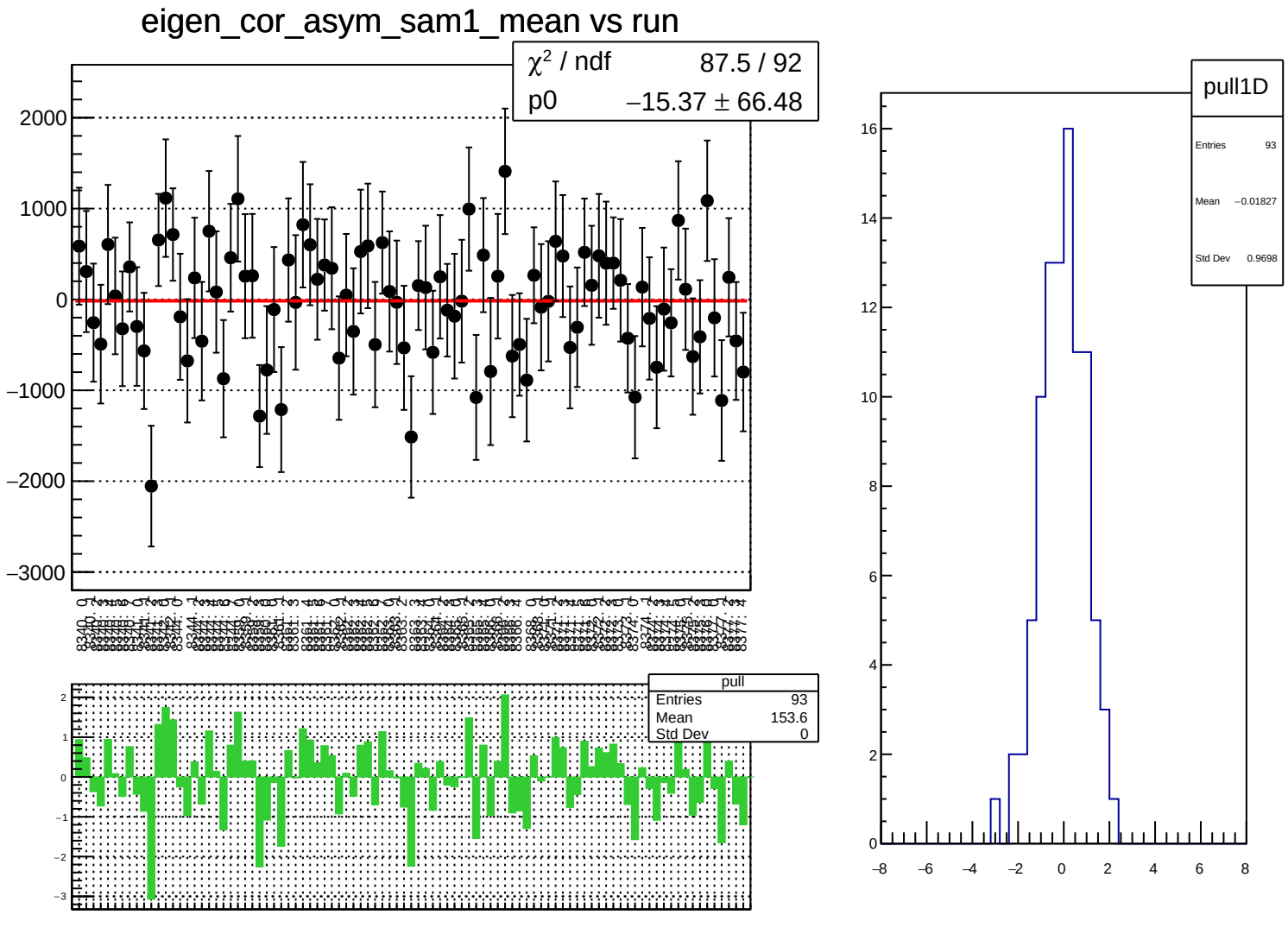

pull1D
Entries 93
Mean −0.01827
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam1_rms vs run
χ² / ndf 3401 / 92
p0 63.59 ± 0.04701
85
80
75
70
65
60


asym_sam1_cor_correction_mean vs run
χ² / ndf 86.55 / 92
p0 510.8 ± 324.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 31.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.01658
Std Dev 0.9646
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
χ² / ndf 8373 / 92
p0 310.3 ± 0.2297
360
340
320
300
280
260


eigen_cor_asym_sam1_mean vs run
χ² / ndf 87.5 / 92
p0 −15.37 ± 66.48
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 153.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01827
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
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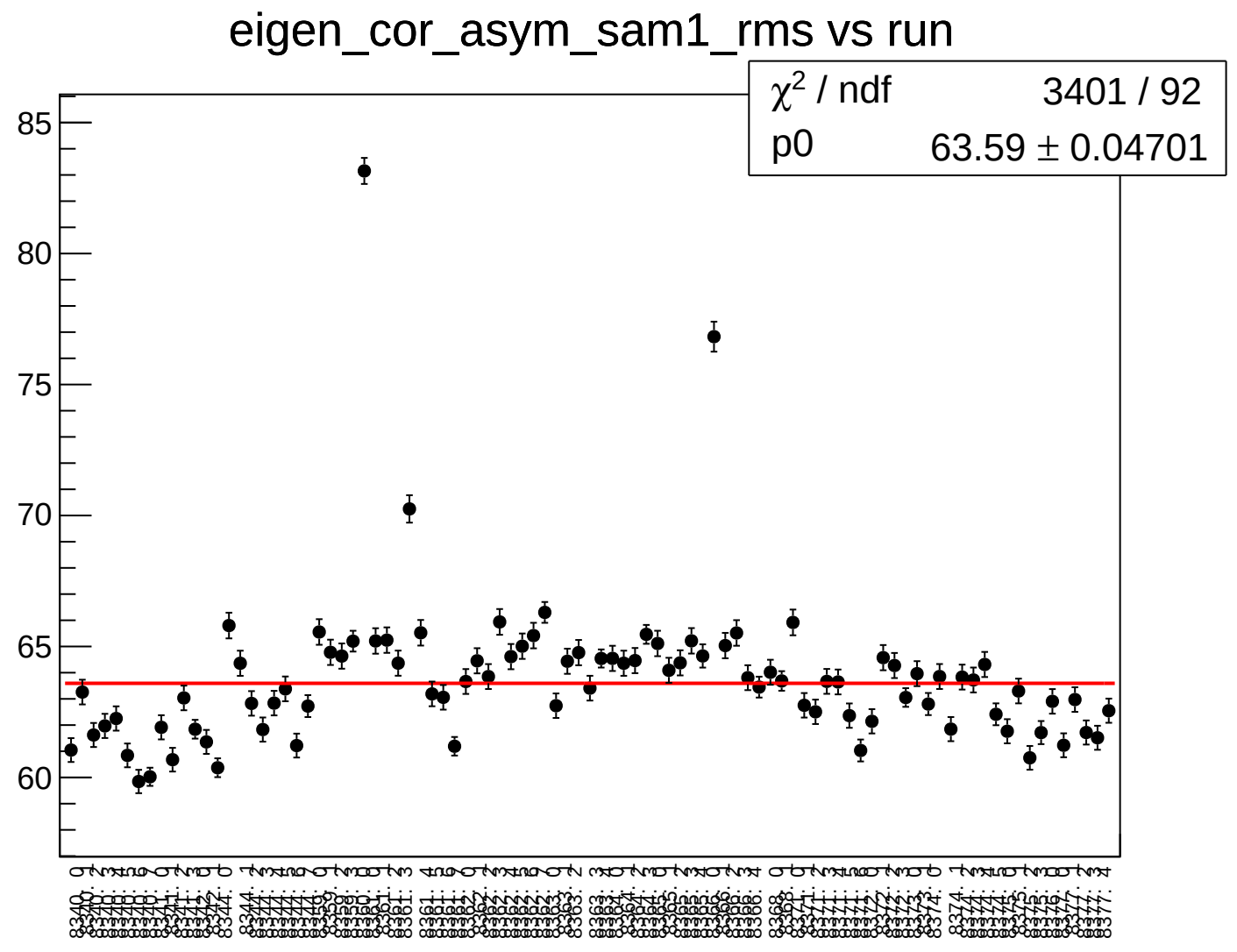
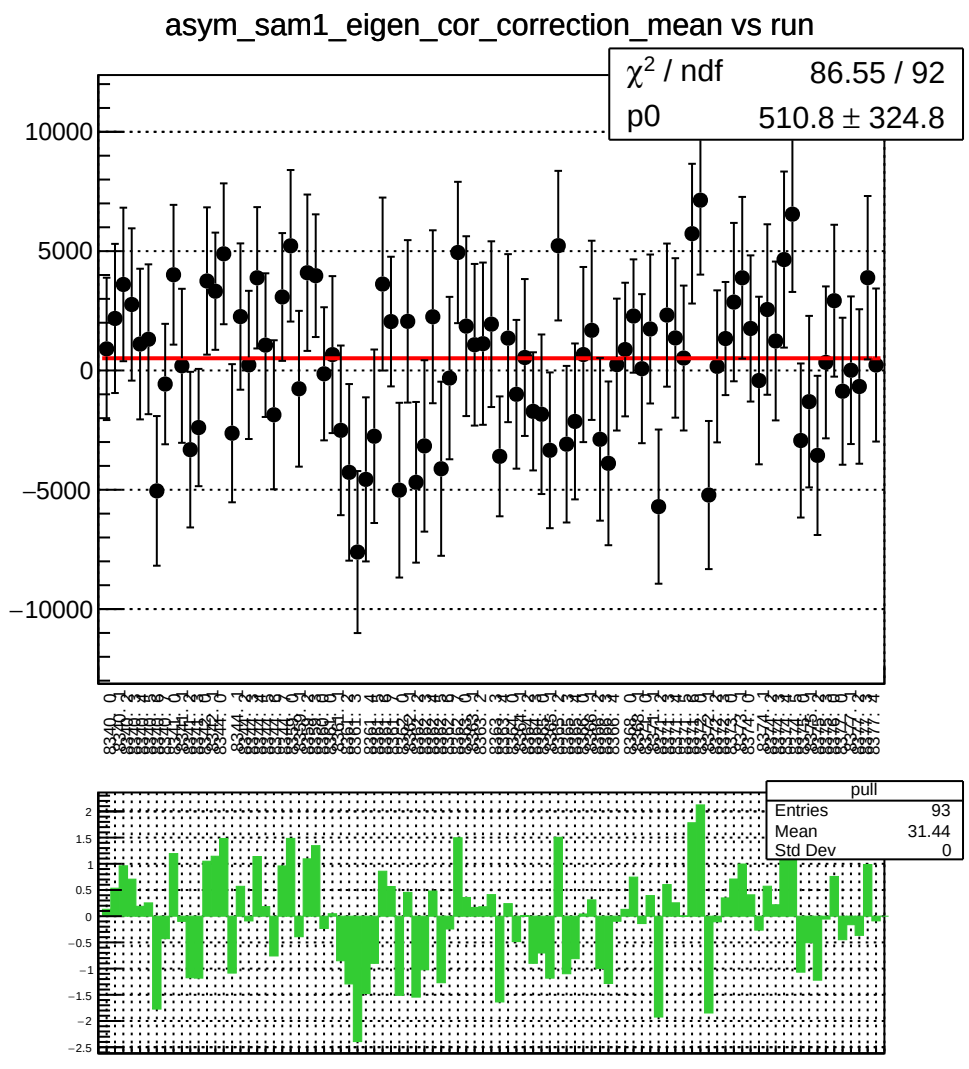
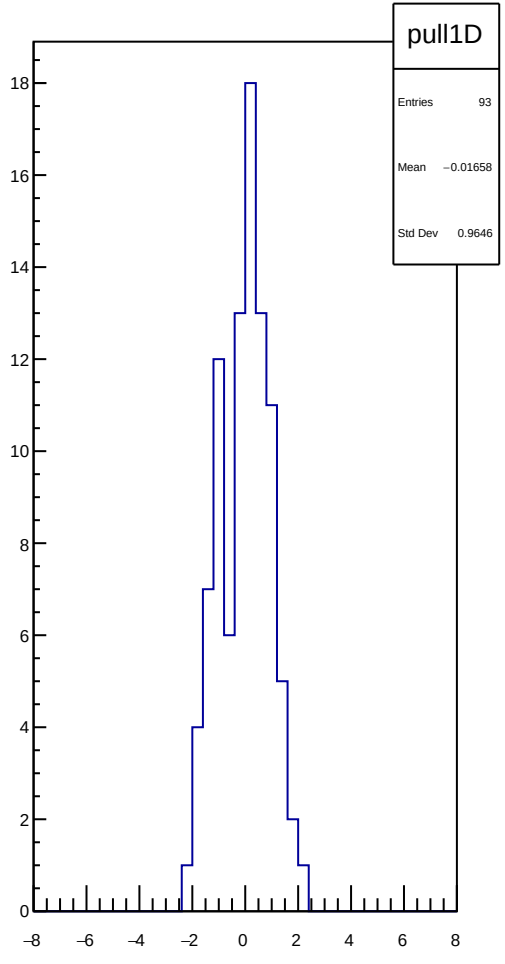
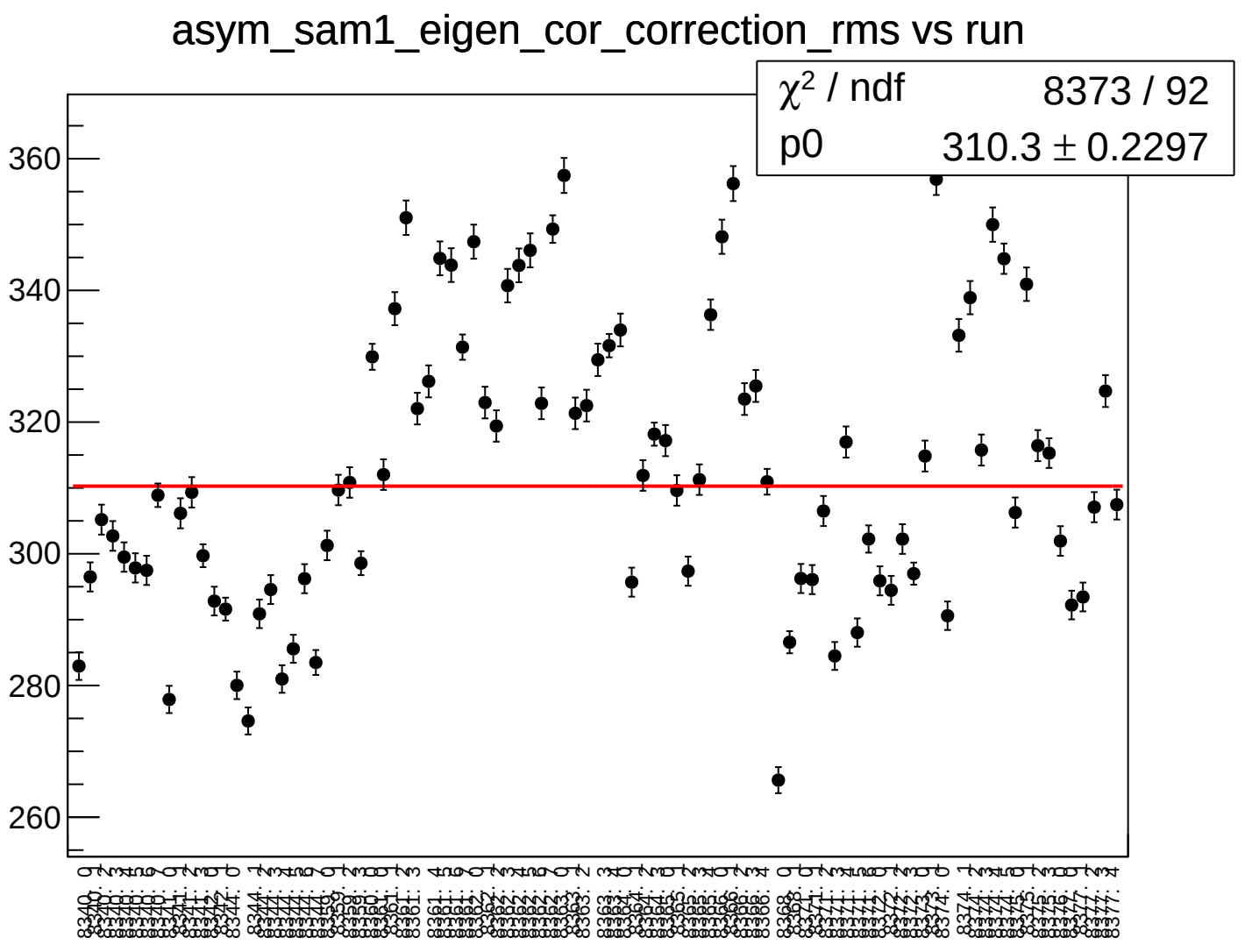
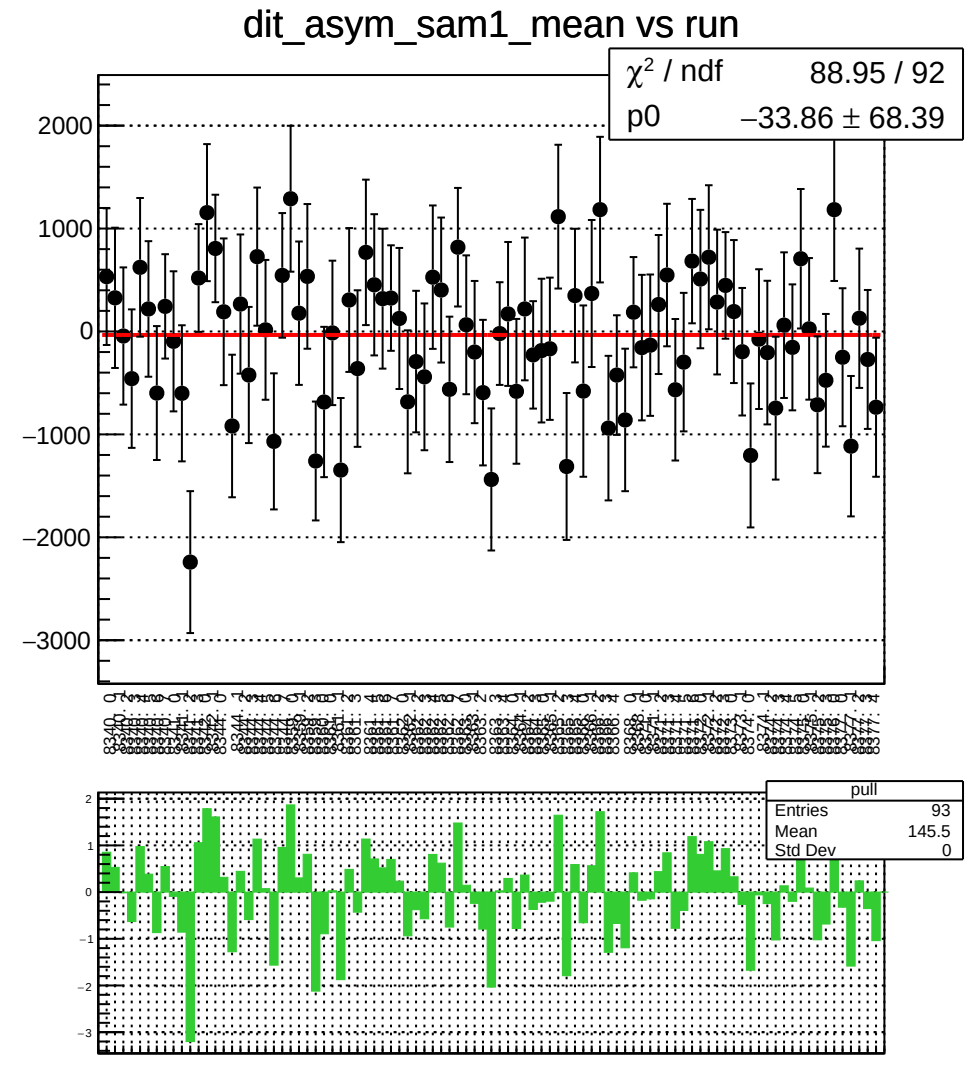
2
4
6
8

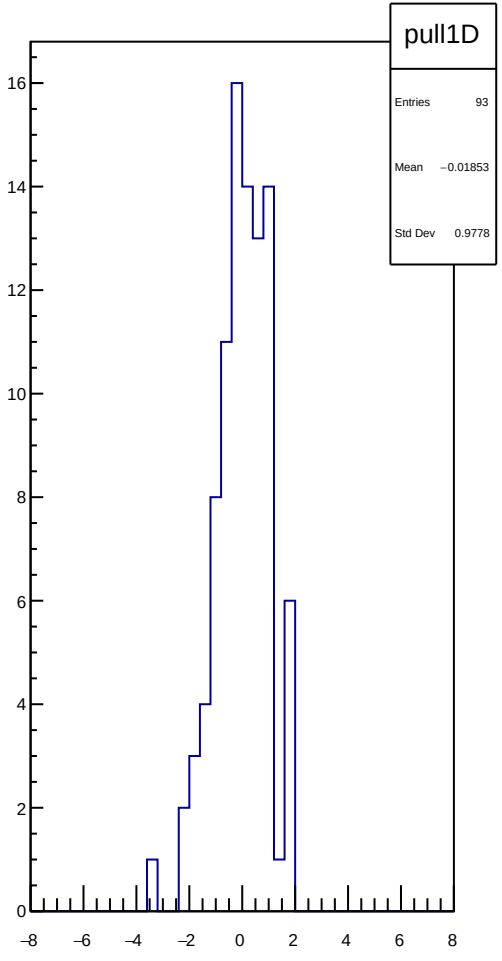

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3401 / 92
p0 63.59 ± 0.04701
85
80
75
70
65
60


asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 86.55 / 92
p0 510.8 ± 324.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 31.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 93
Mean −0.01658
Std Dev 0.9646
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 8373 / 92
p0 310.3 ± 0.2297
360
340
320
300
280
260


dit_asym_sam1_mean vs run
χ² / ndf 88.95 / 92
p0 −33.86 ± 68.39
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 145.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.01853
Std Dev 0.9778
16
14
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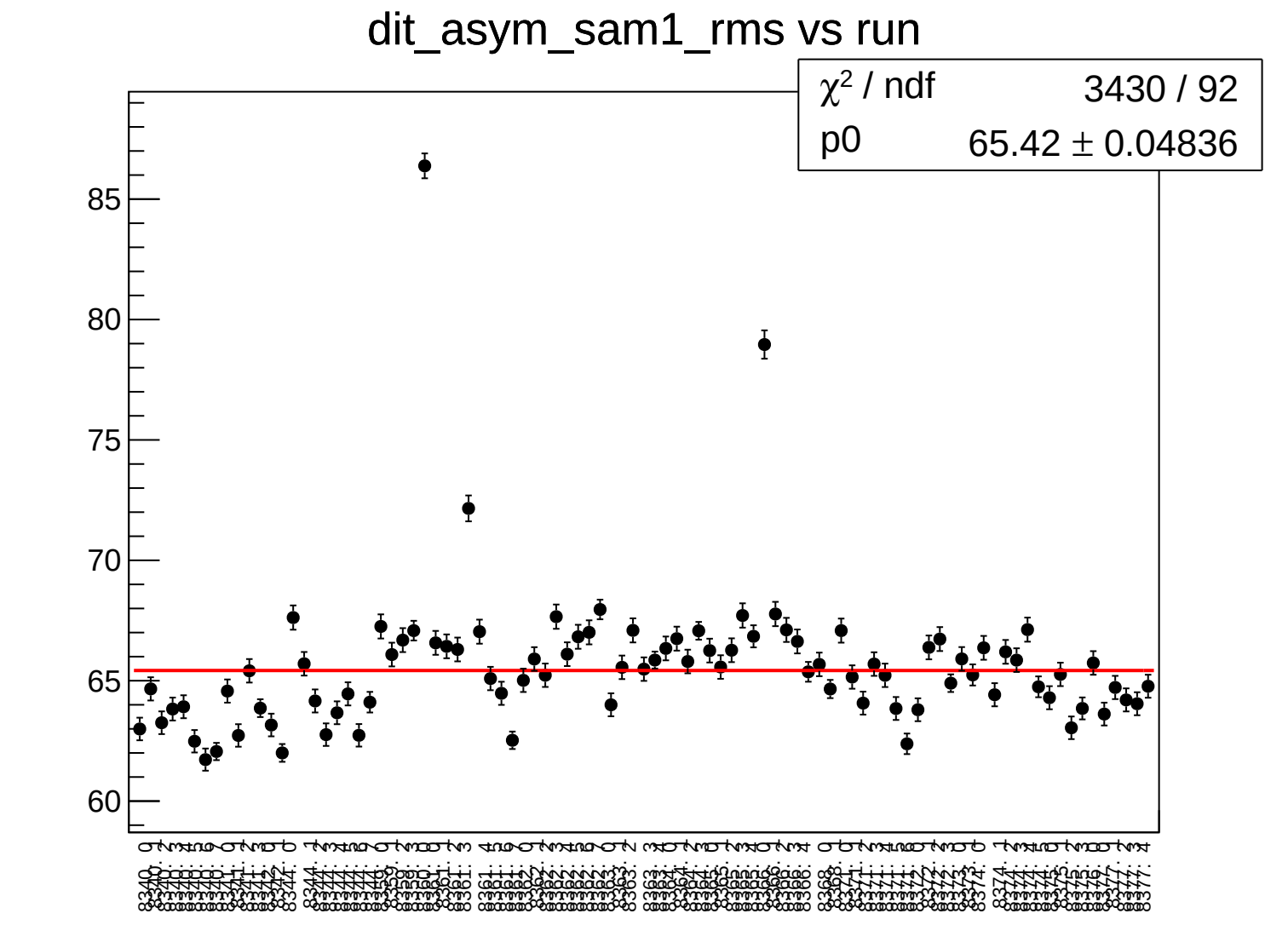
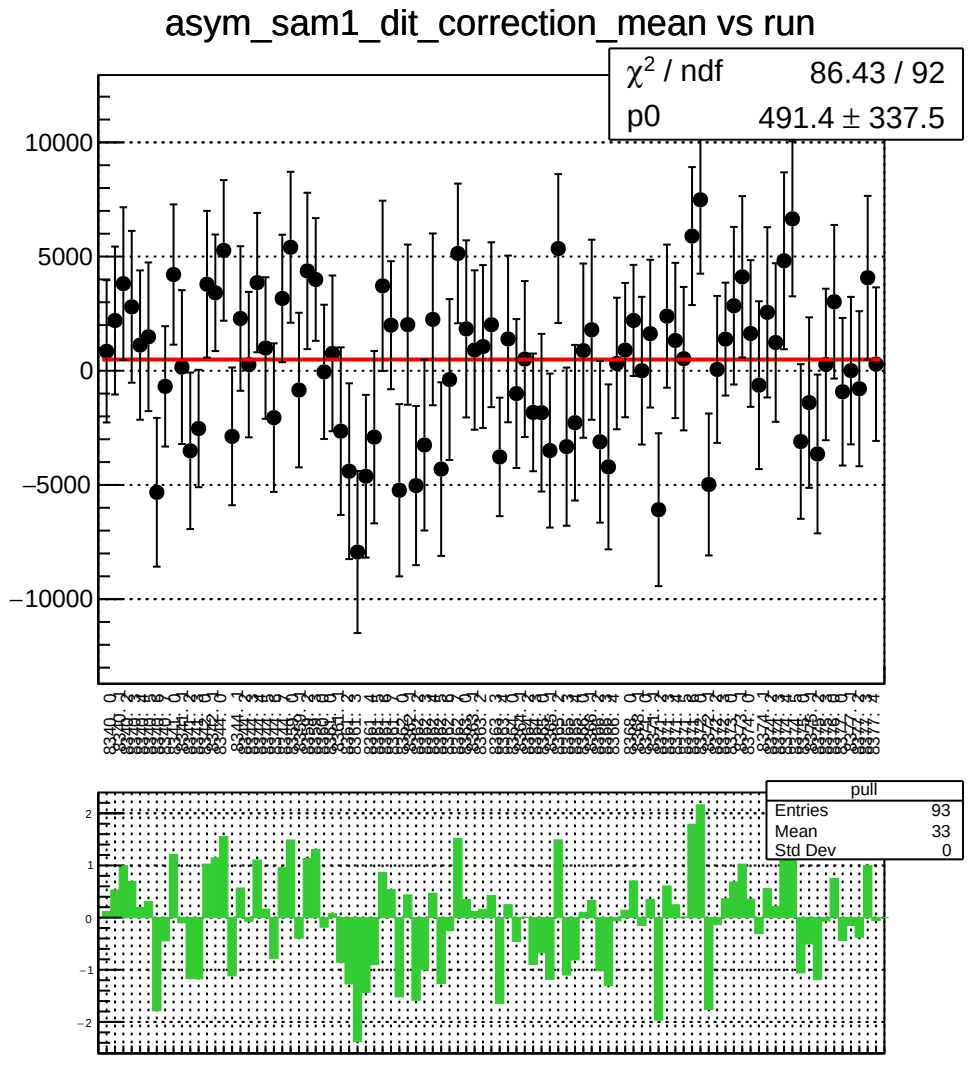
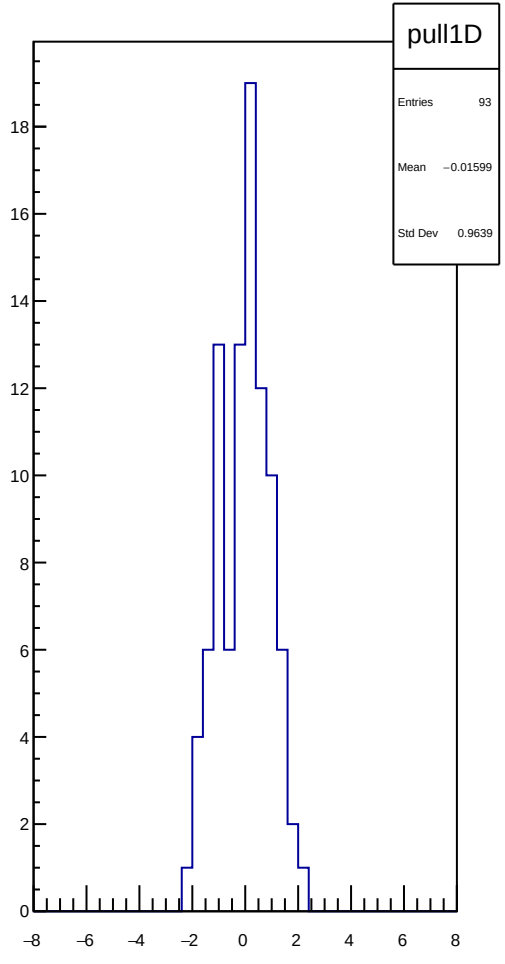
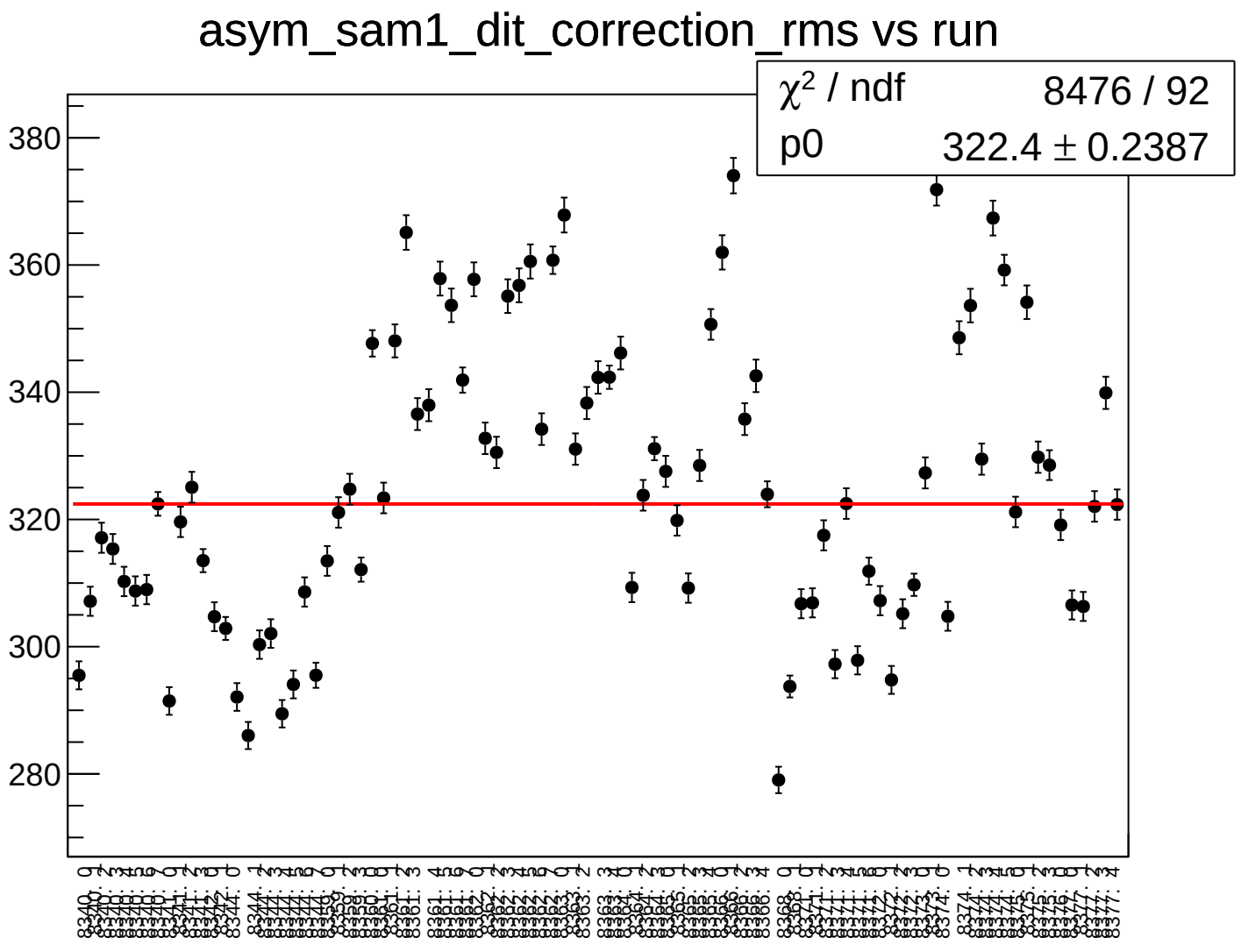
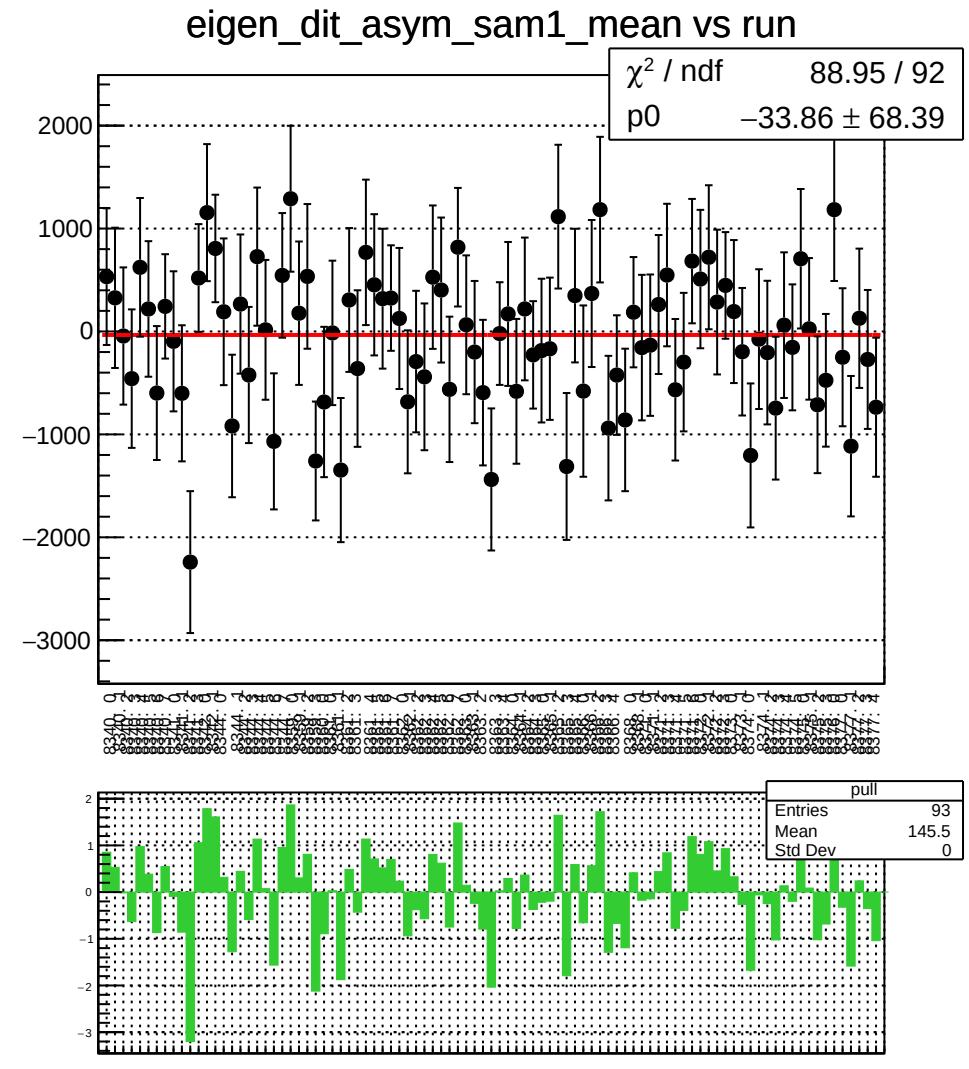
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

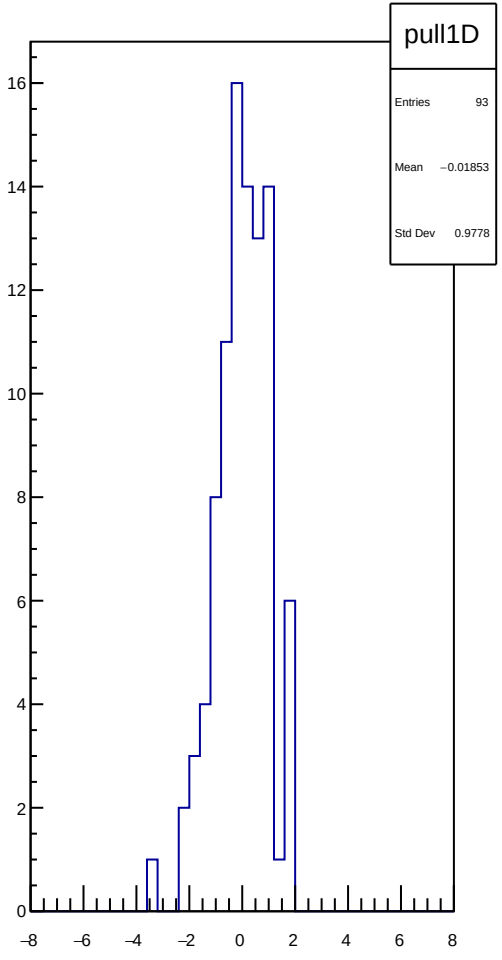

dit_asym_sam1_rms vs run
χ² / ndf 3430 / 92
p0 65.42 ± 0.04836
85
80
75
70
65
60

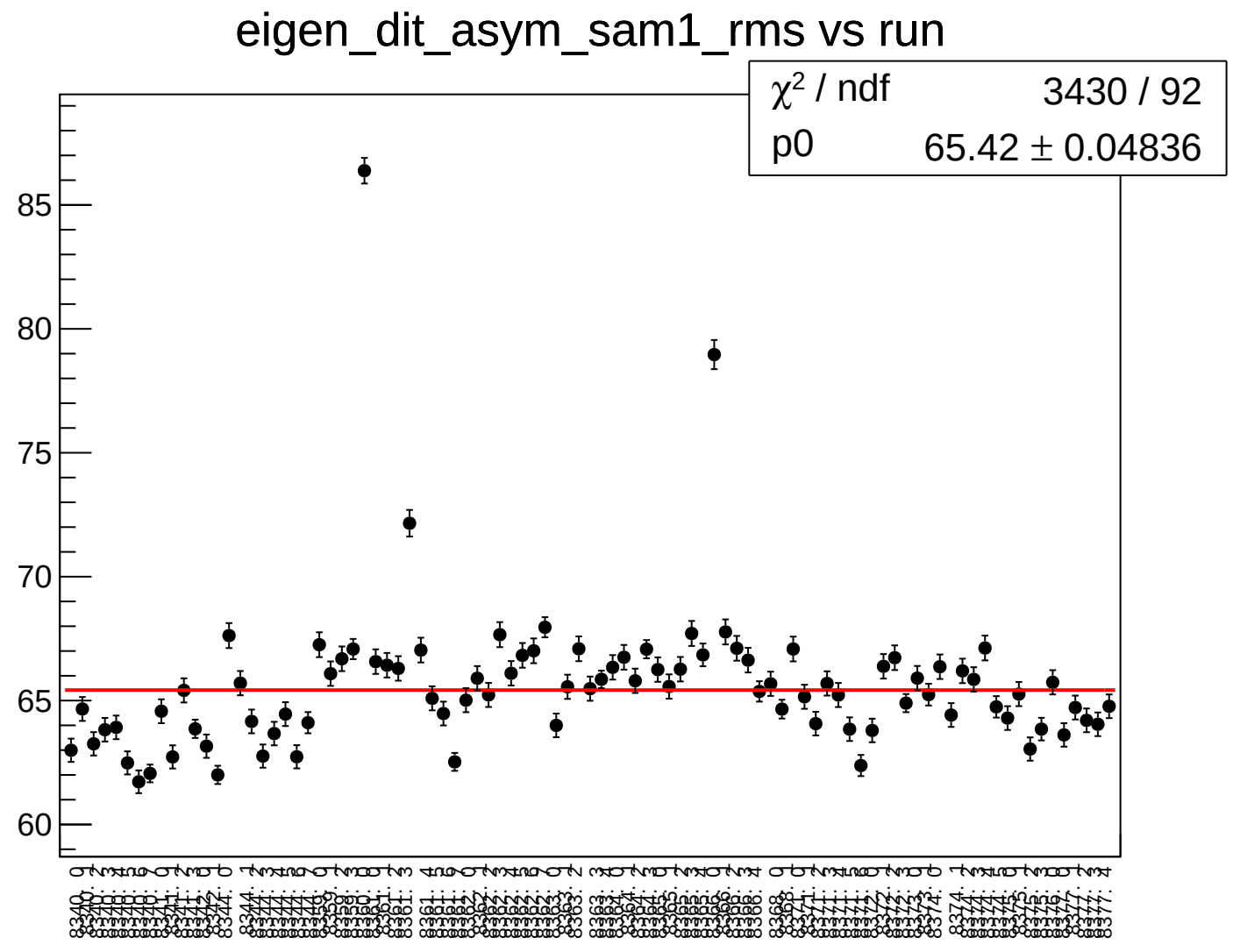

asym_sam1_dit_correction_mean vs run
χ² / ndf 86.43 / 92
p0 491.4 ± 337.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 33
Std Dev 0
2
1
0
−1
−2

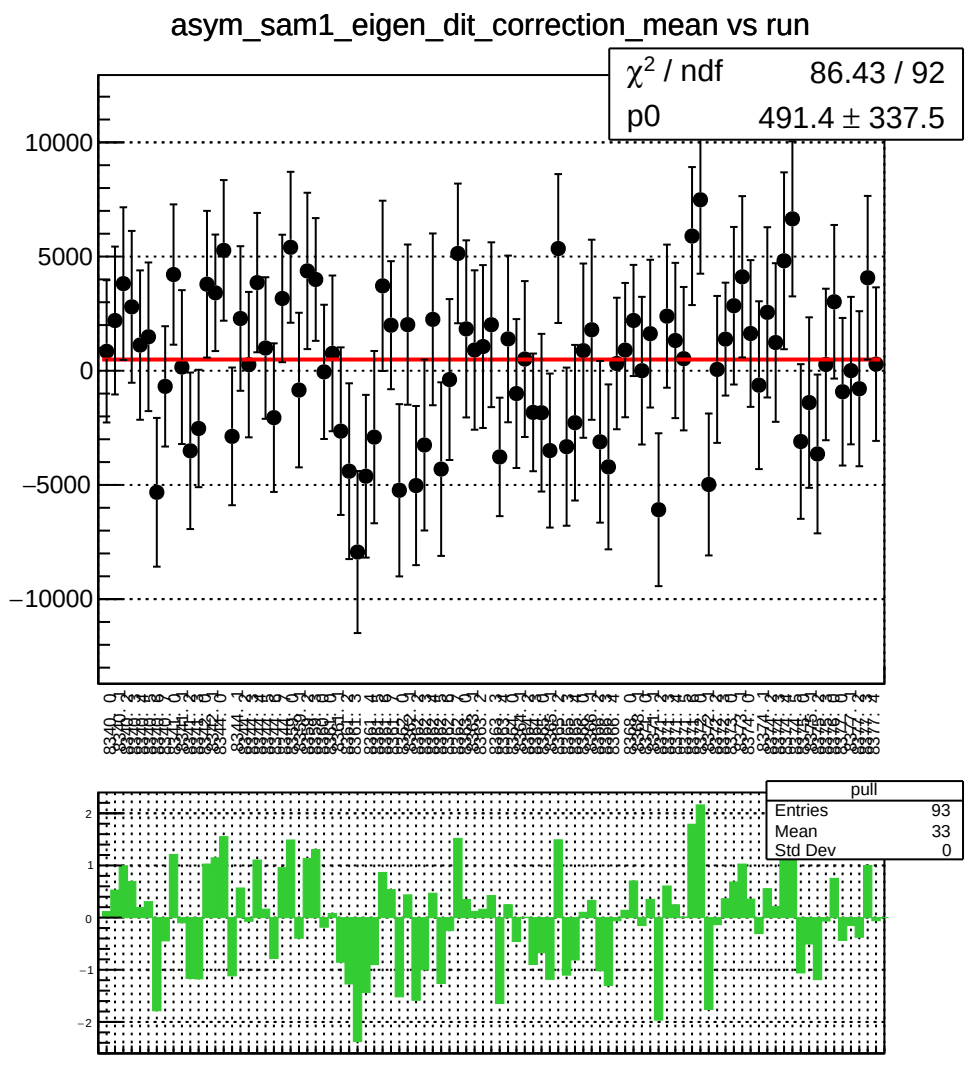

pull1D
Entries 93
Mean −0.01599
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

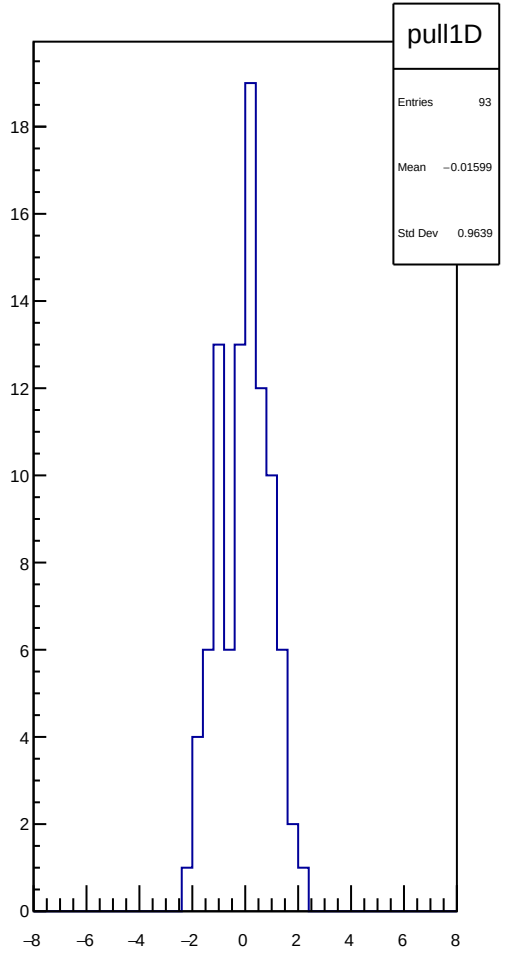

asym_sam1_dit_correction_rms vs run
χ² / ndf 8476 / 92
p0 322.4 ± 0.2387
380
360
340
320
300
280

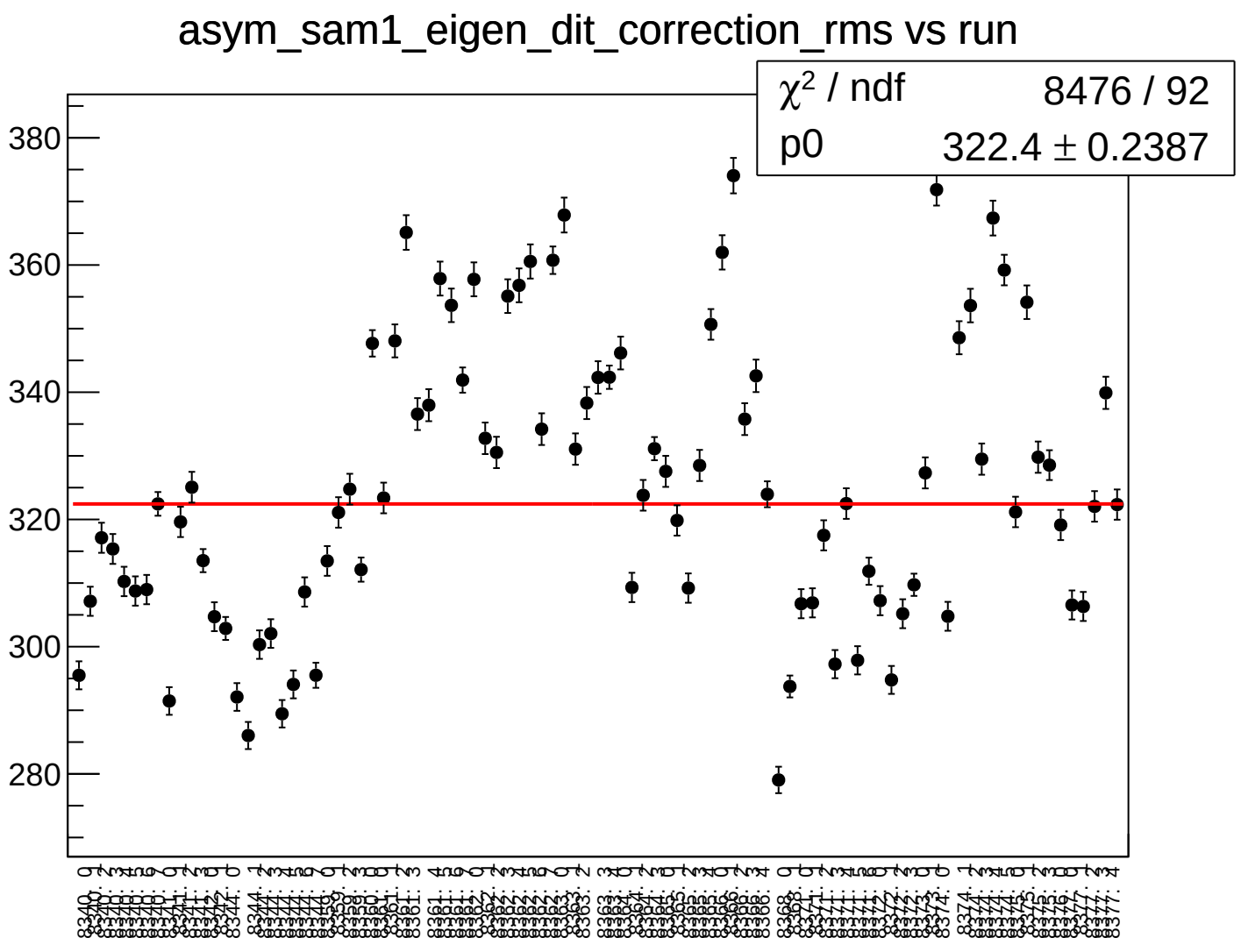

eigen_dit_asym_sam1_mean vs run
χ² / ndf 88.95 / 92
p0 −33.86 ± 68.39
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 145.5
Std Dev 0
2
1
0
−1
−2
−3

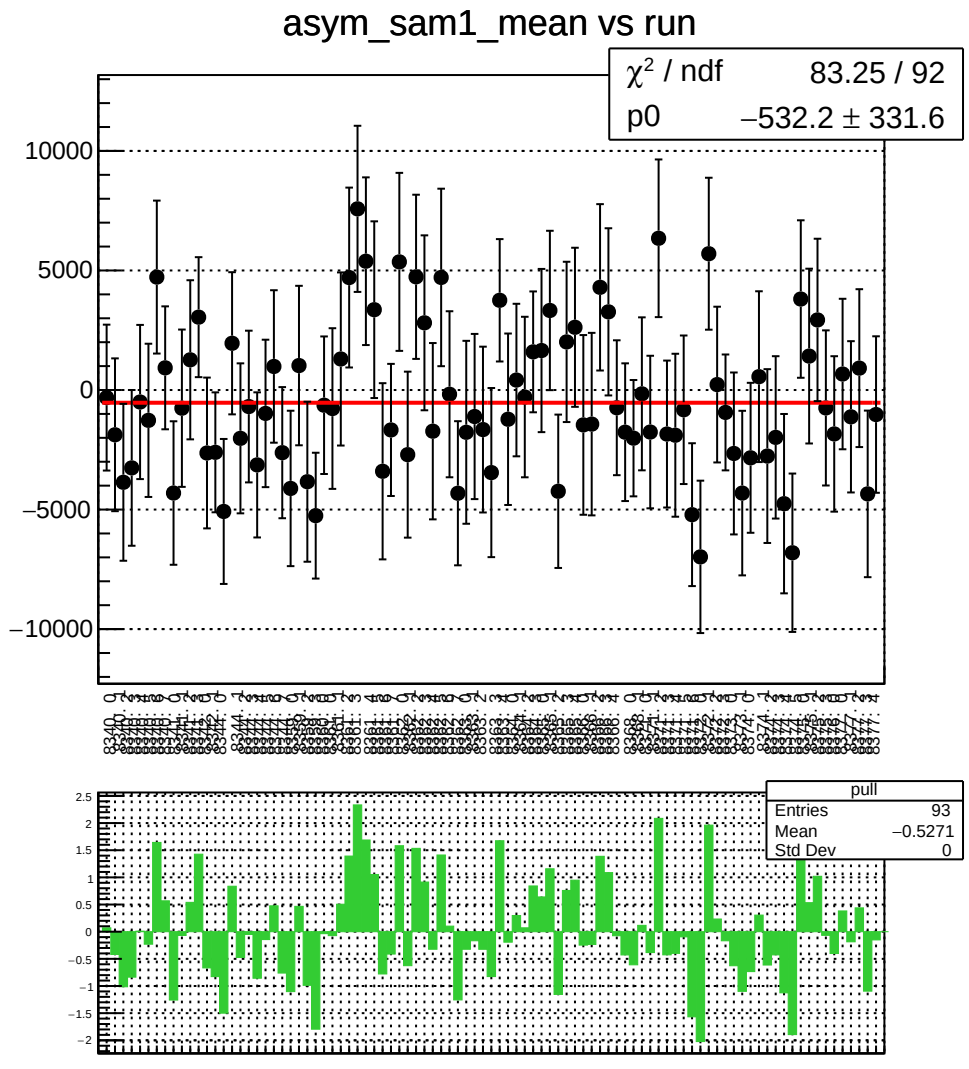

pull1D
Entries 93
Mean −0.01853
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

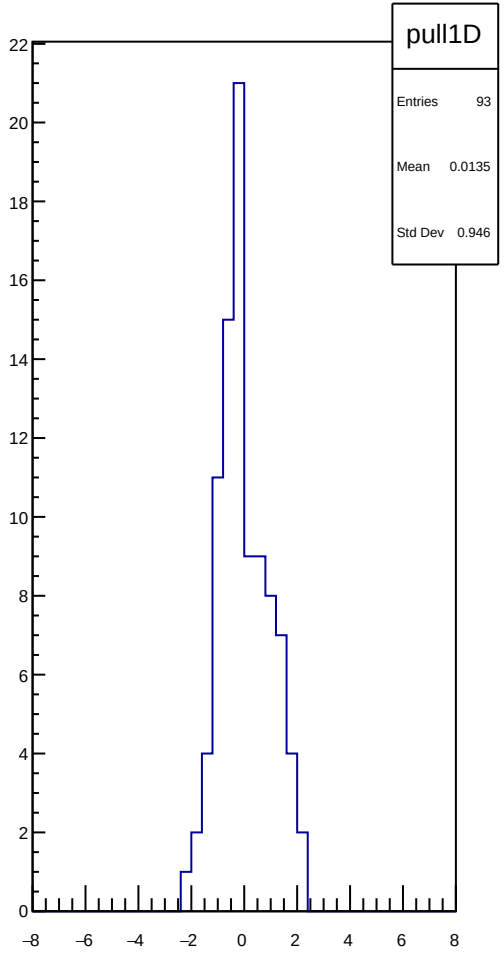

eigen_dit_asym_sam1_rms vs run
χ² / ndf 3430 / 92
p0 65.42 ± 0.04836
85
80
75
70
65
60

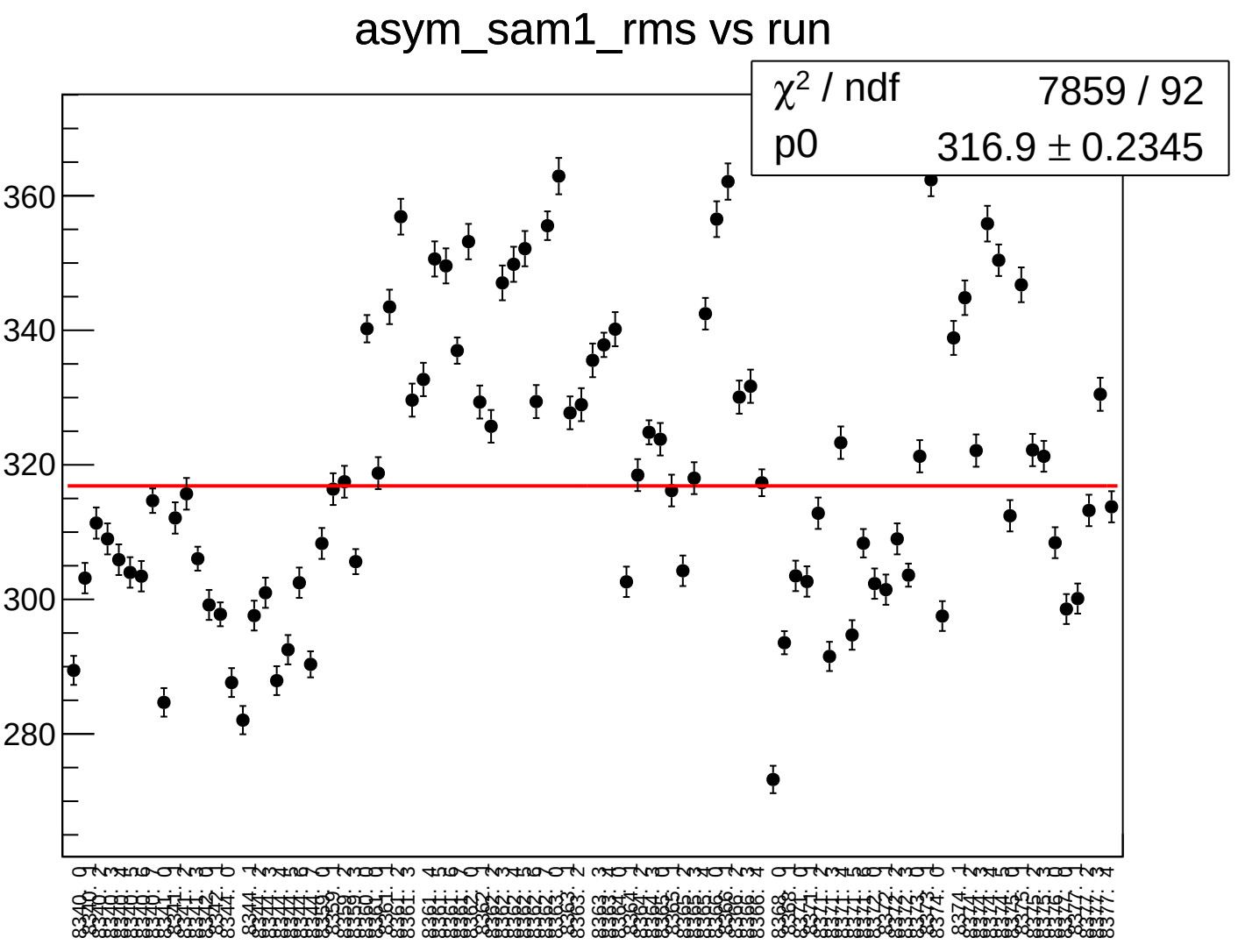

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 86.43 / 92
p0 491.4 ± 337.5
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 33
Std Dev 0
2
1
0
−1
−2

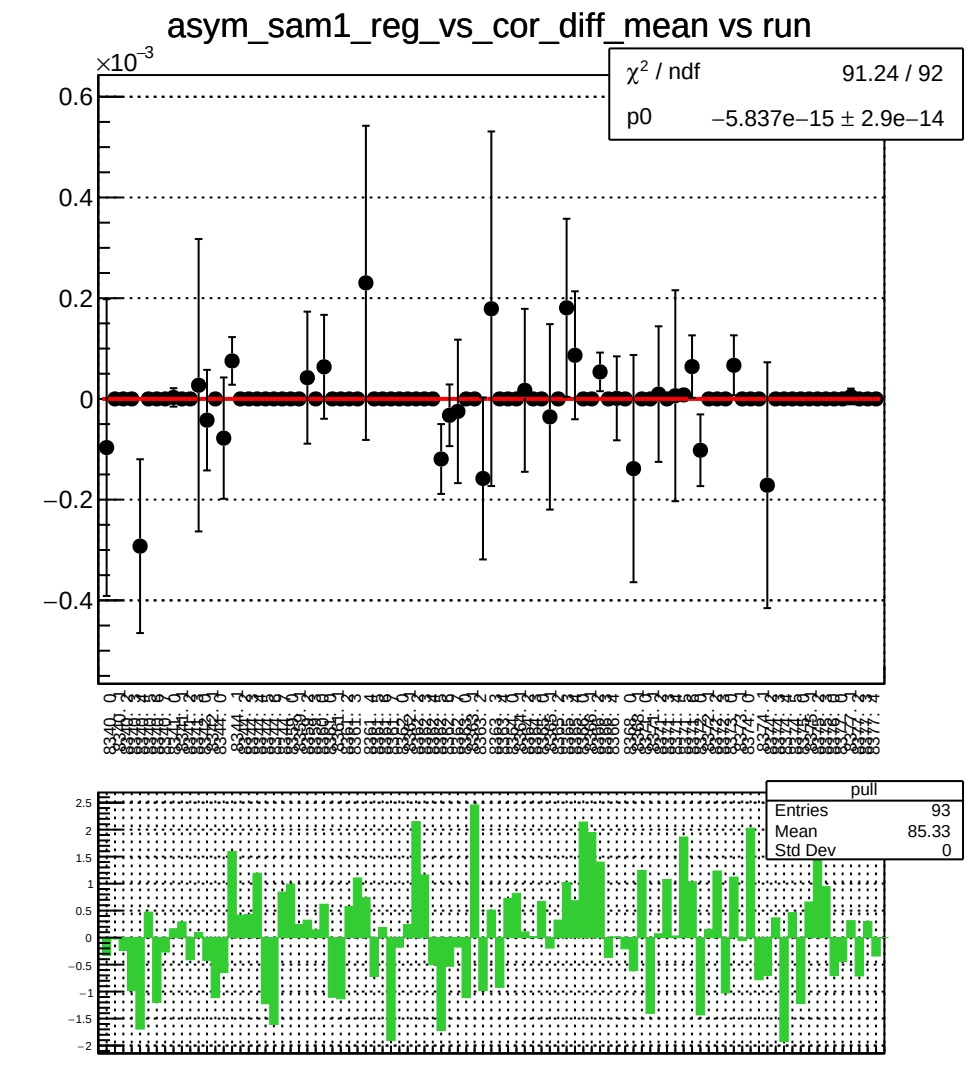

pull1D
Entries 93
Mean −0.01599
Std Dev 0.9639
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

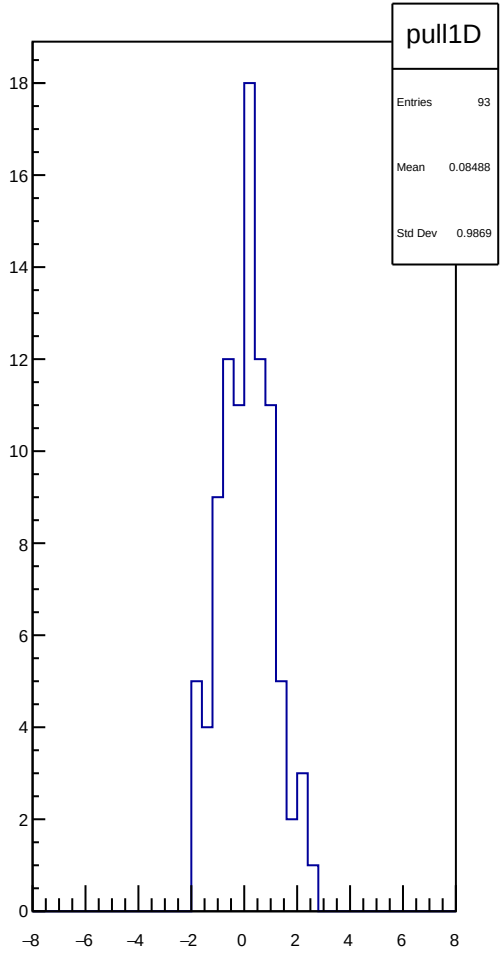

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 8476 / 92
p0 322.4 ± 0.2387
380
360
340
320
300
280

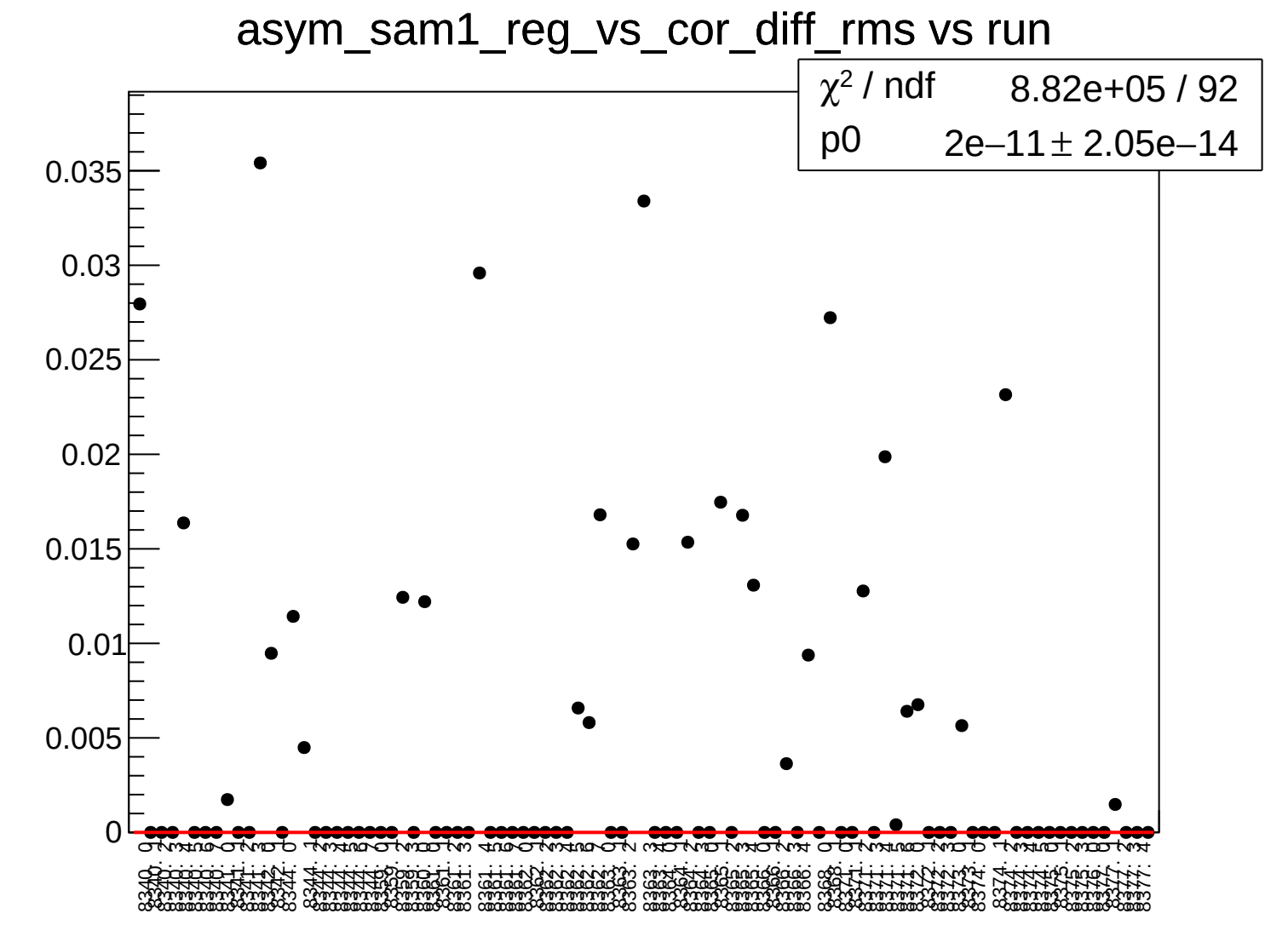

asym_sam1_mean vs run
χ² / ndf 83.25 / 92
p0 −532.2 ± 331.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −0.5271
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

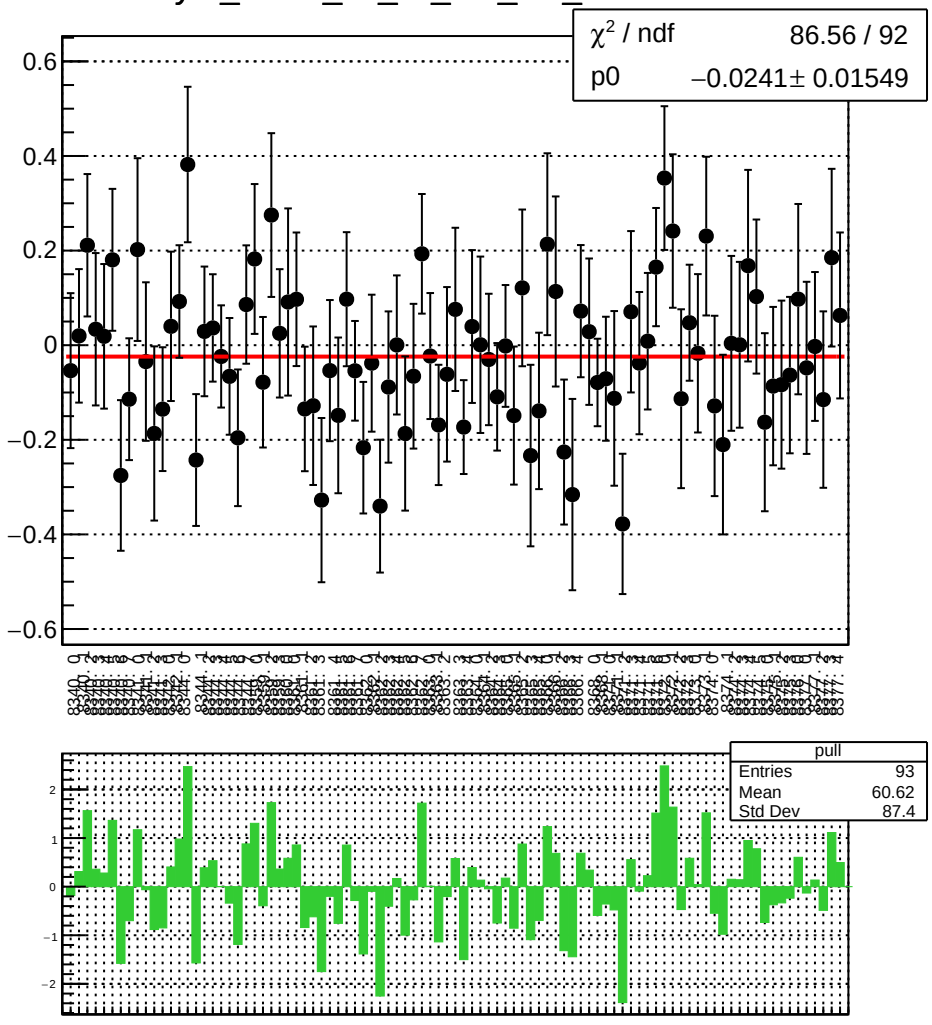

pull1D
Entries 93
Mean 0.0135
Std Dev 0.946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

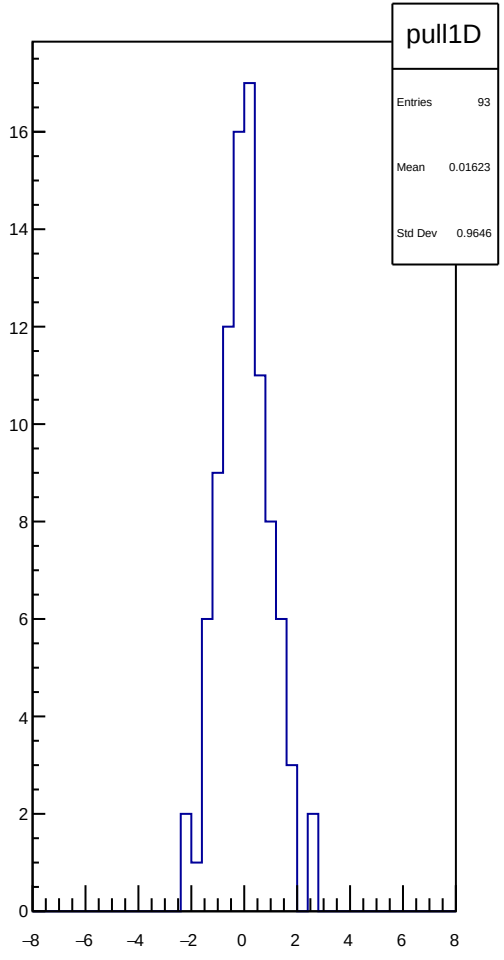

asym_sam1_rms vs run
χ² / ndf 7859 / 92
p0 316.9 ± 0.2345
360
340
320
300
280

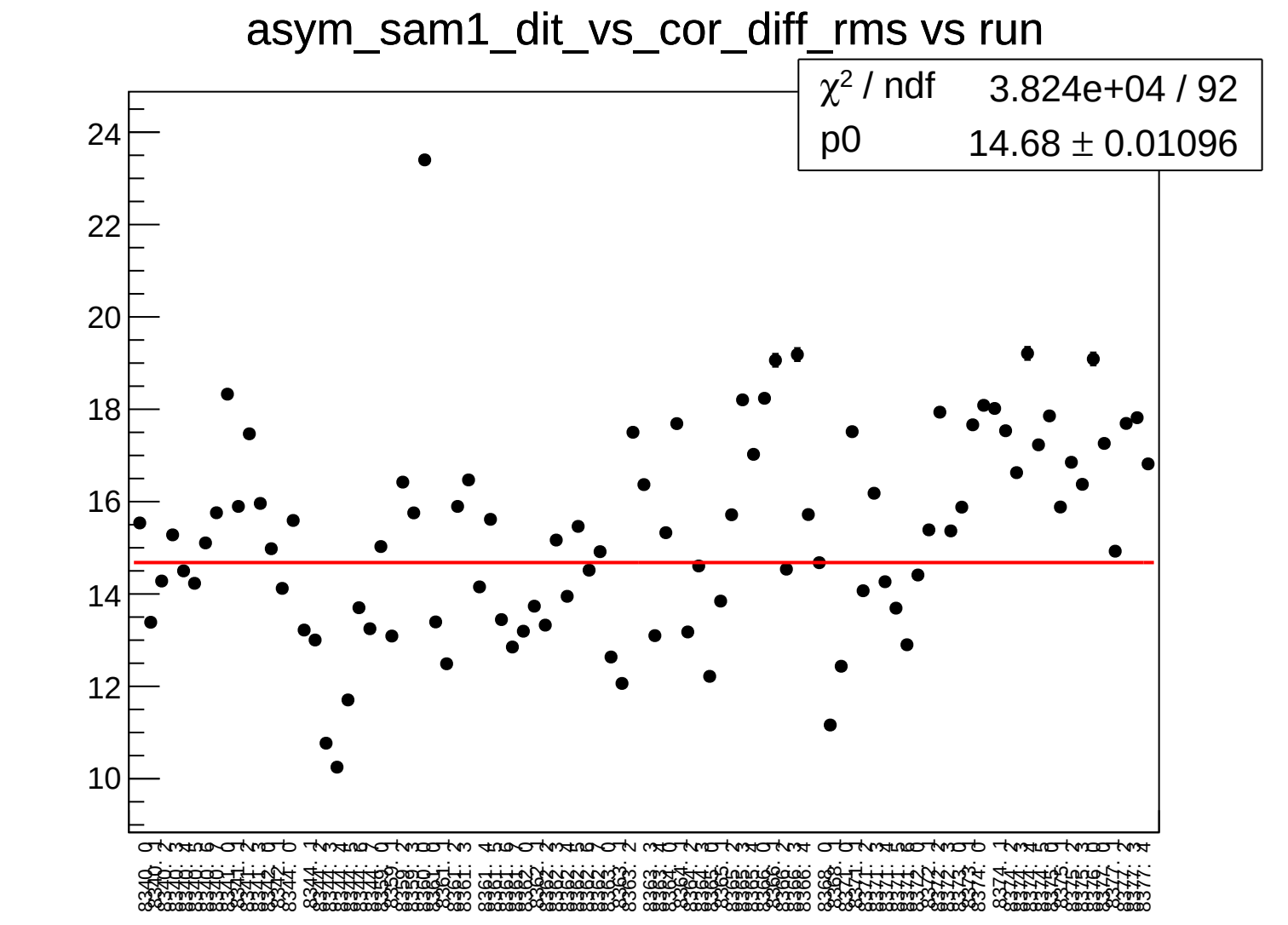

asym_sam1_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 91.24 / 92
p0 −5.837e−15 ± 2.9e−14
pull
Entries 93
Mean 85.33
Std Dev 0

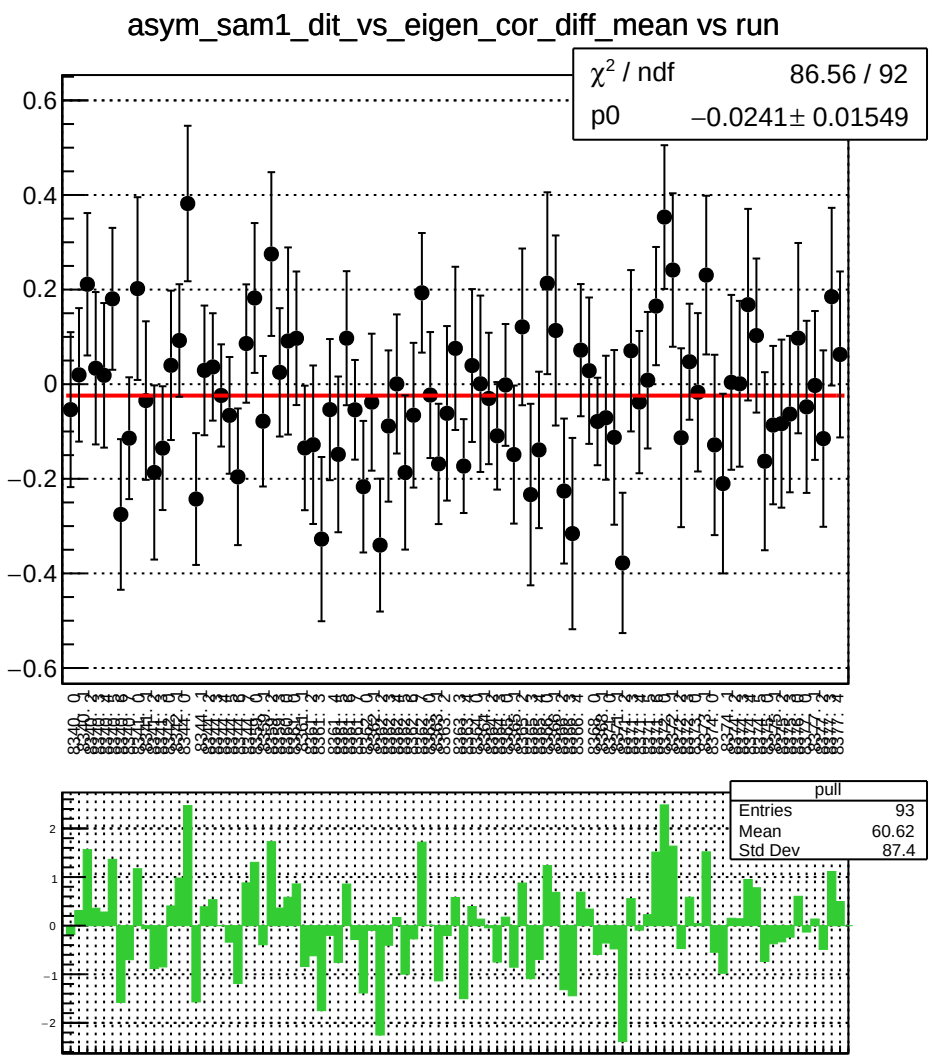

pull1D
Entries 93
Mean 0.08488
Std Dev 0.9869

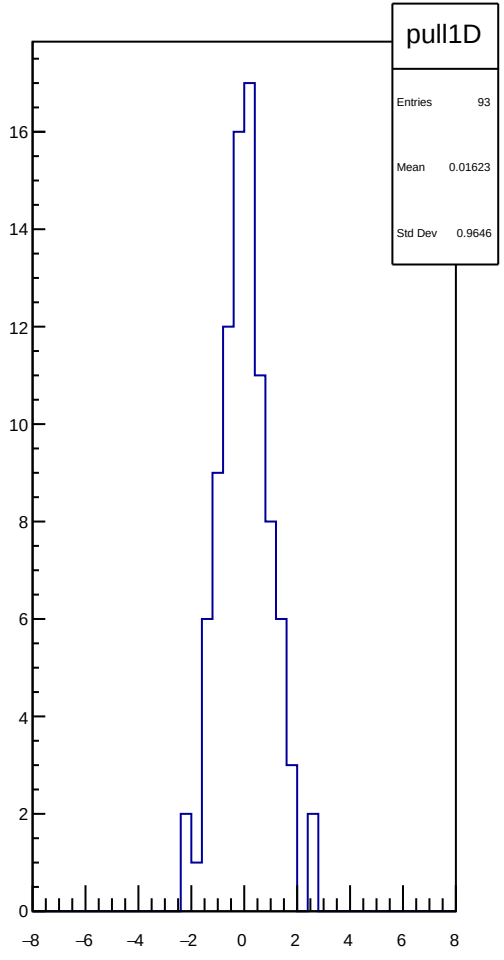

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 8.82e+05 / 92
p0 2e−11 ± 2.05e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

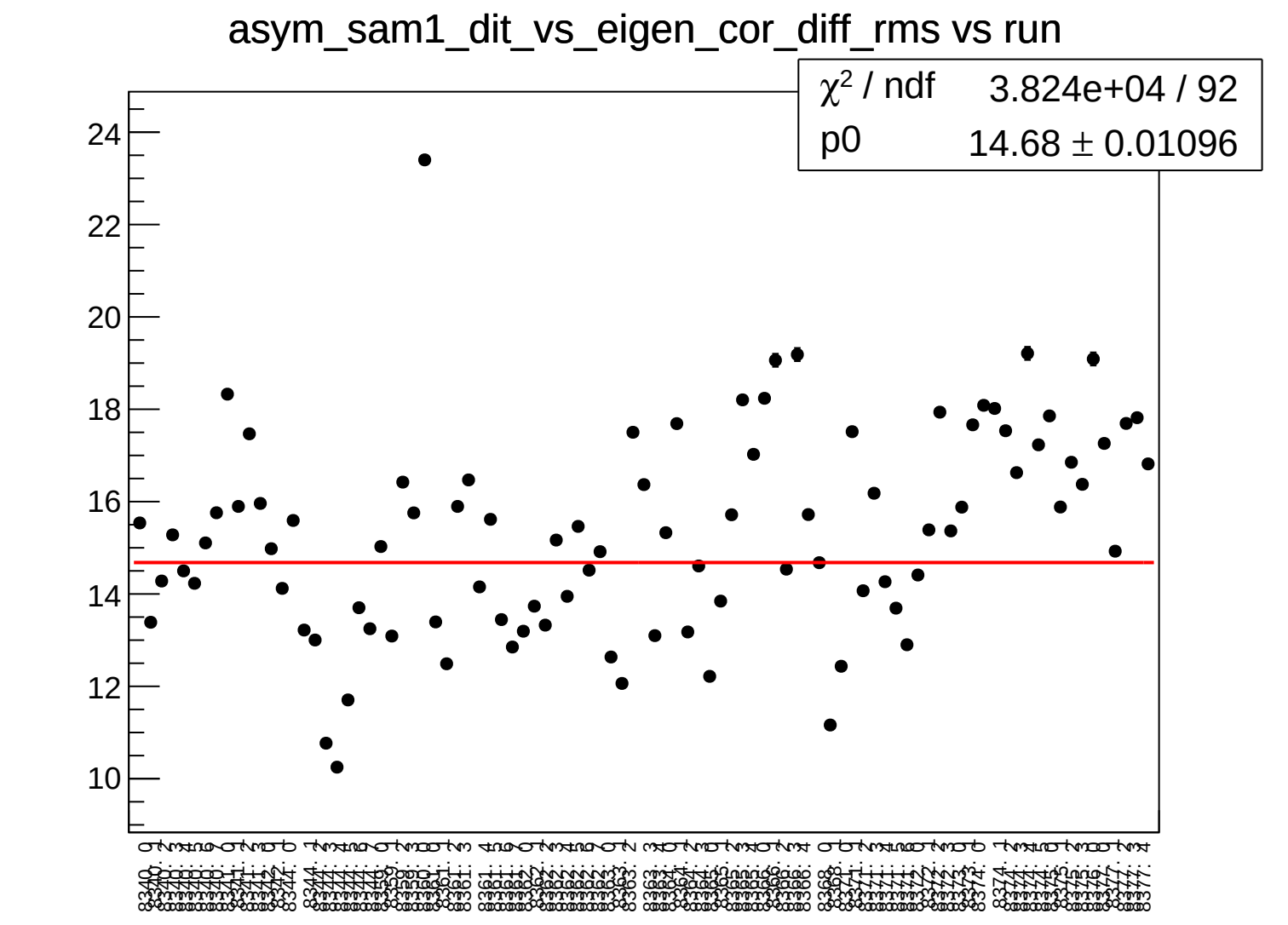

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.56 / 92
p0 −0.0241± 0.01549
pull
Entries 93
Mean 60.62
Std Dev 87.4

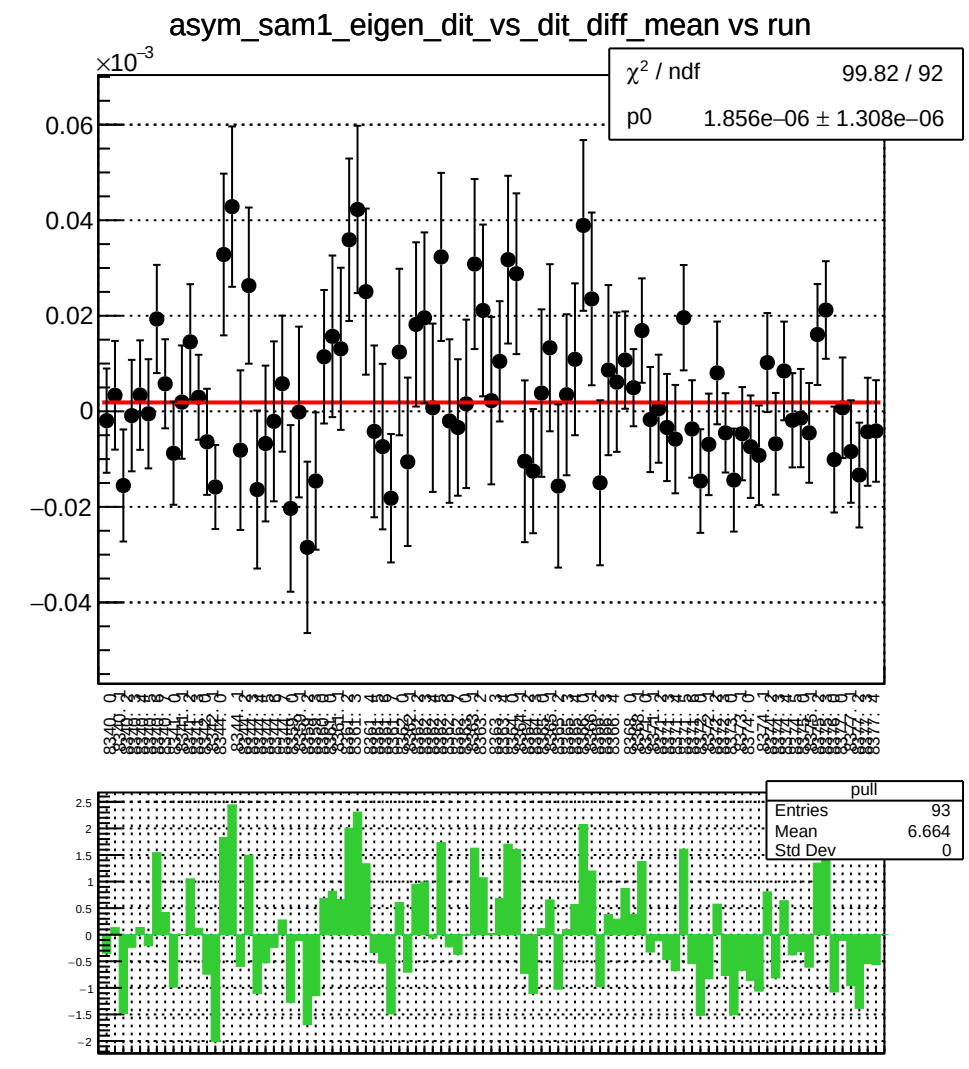

pull1D
Entries 93
Mean 0.01623
Std Dev 0.9646

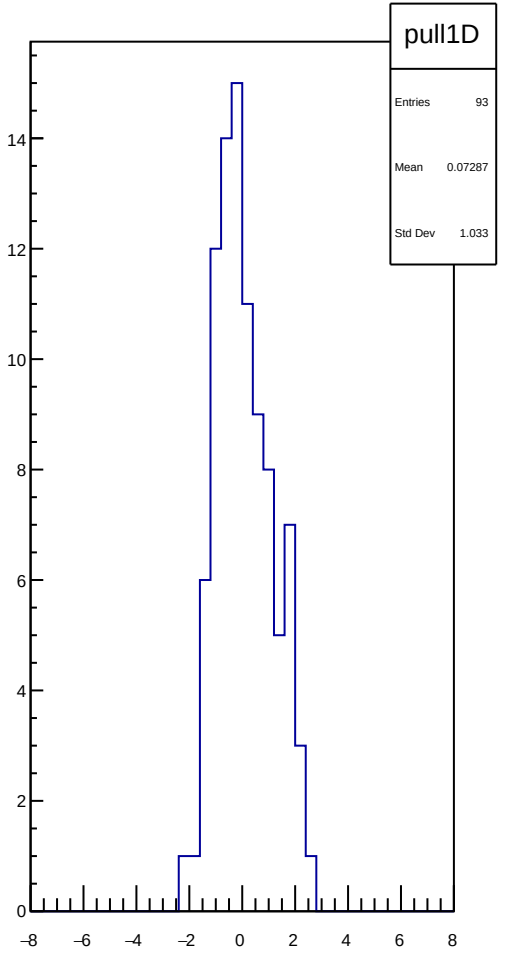

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.824e+04 / 92
p0 14.68 ± 0.01096
24
22
20
18
16
14
12
10

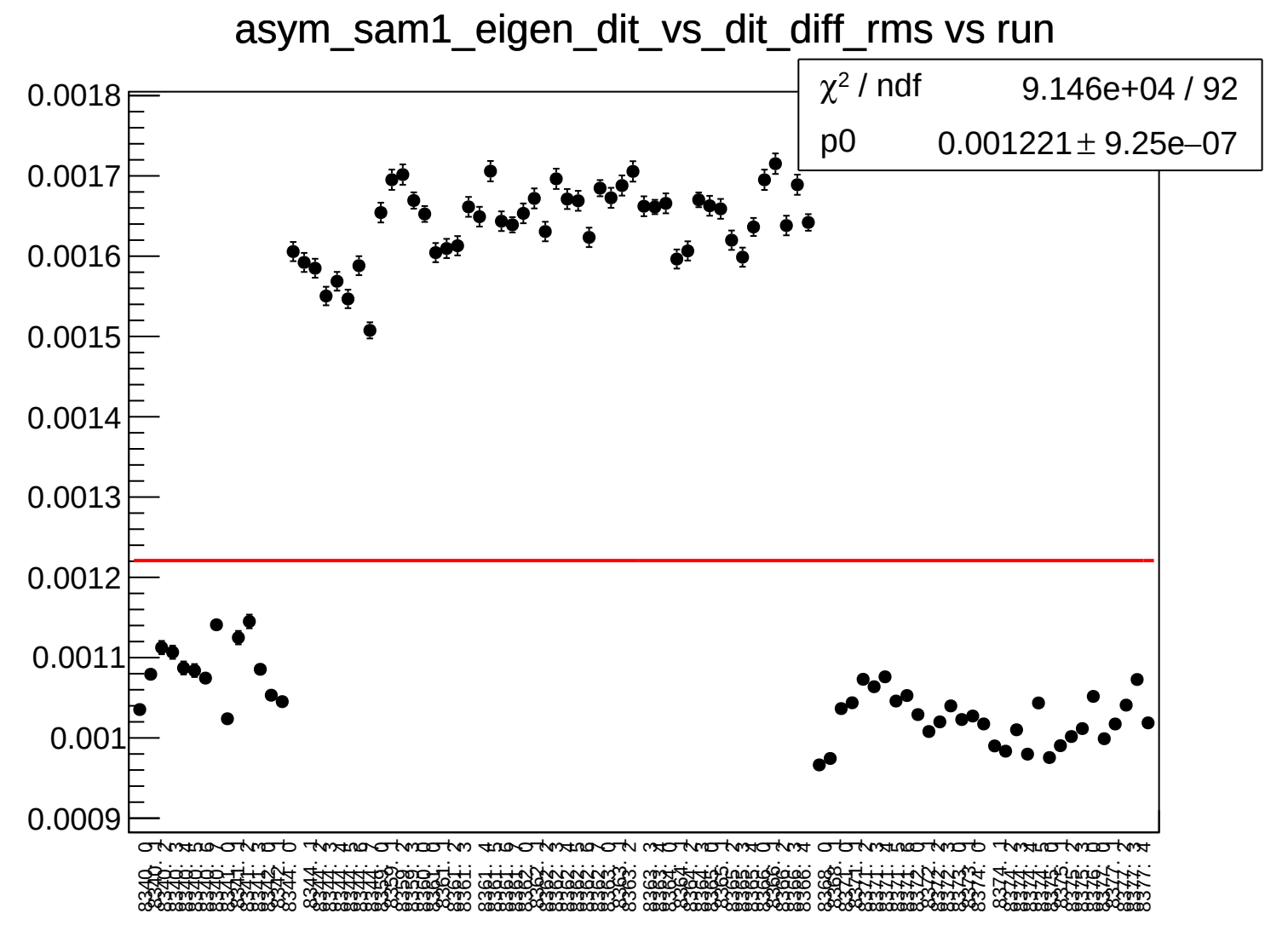

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.56 / 92
p0 −0.0241± 0.01549
pull
Entries 93
Mean 60.62
Std Dev 87.4


pull1D
Entries 93
Mean 0.01623
Std Dev 0.9646

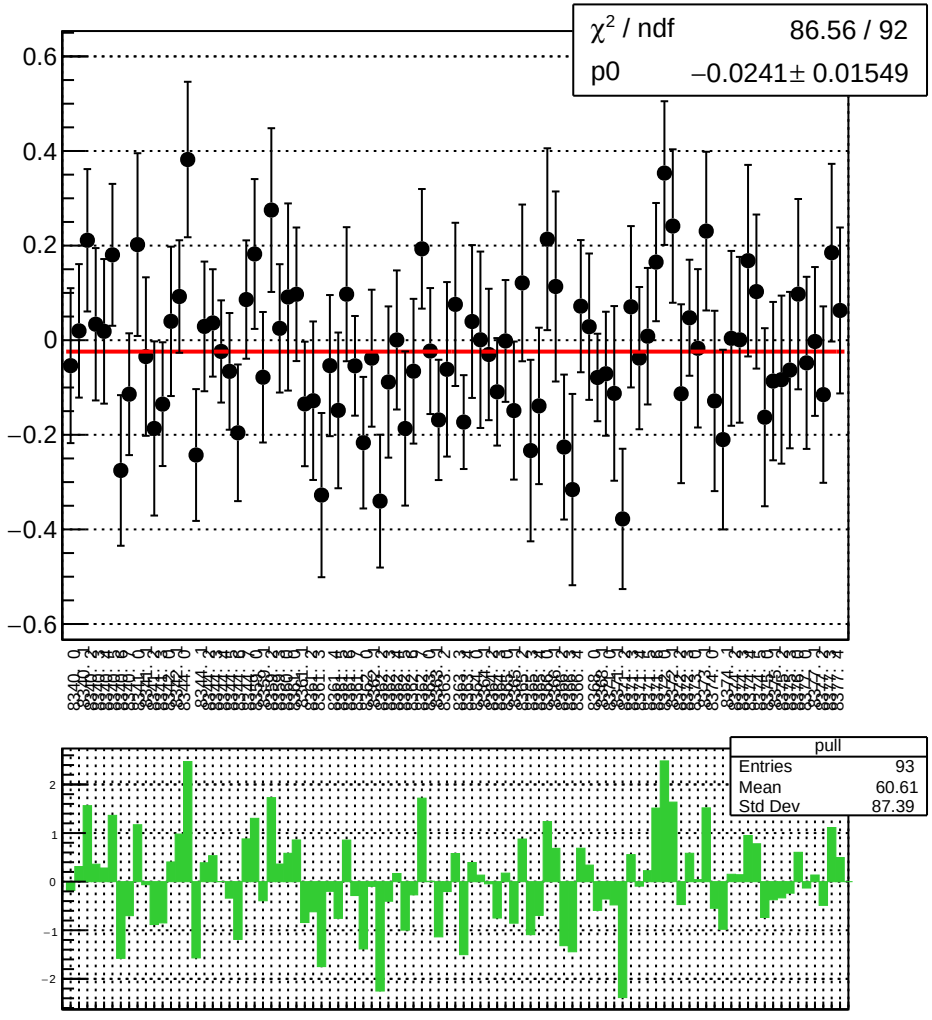

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.824e+04 / 92
p0 14.68 ± 0.01096
24
22
20
18
16
14
12
10

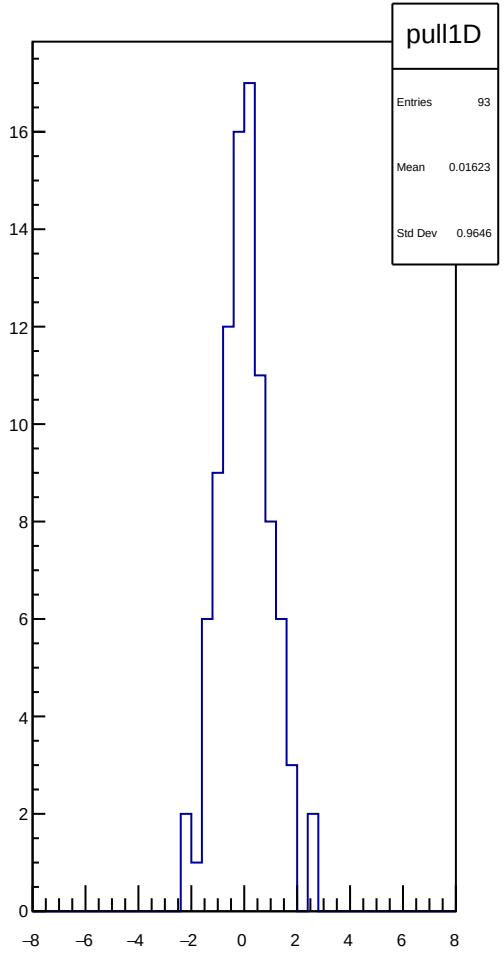

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.82 / 92
p0 1.856e−06 ± 1.308e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 6.664
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

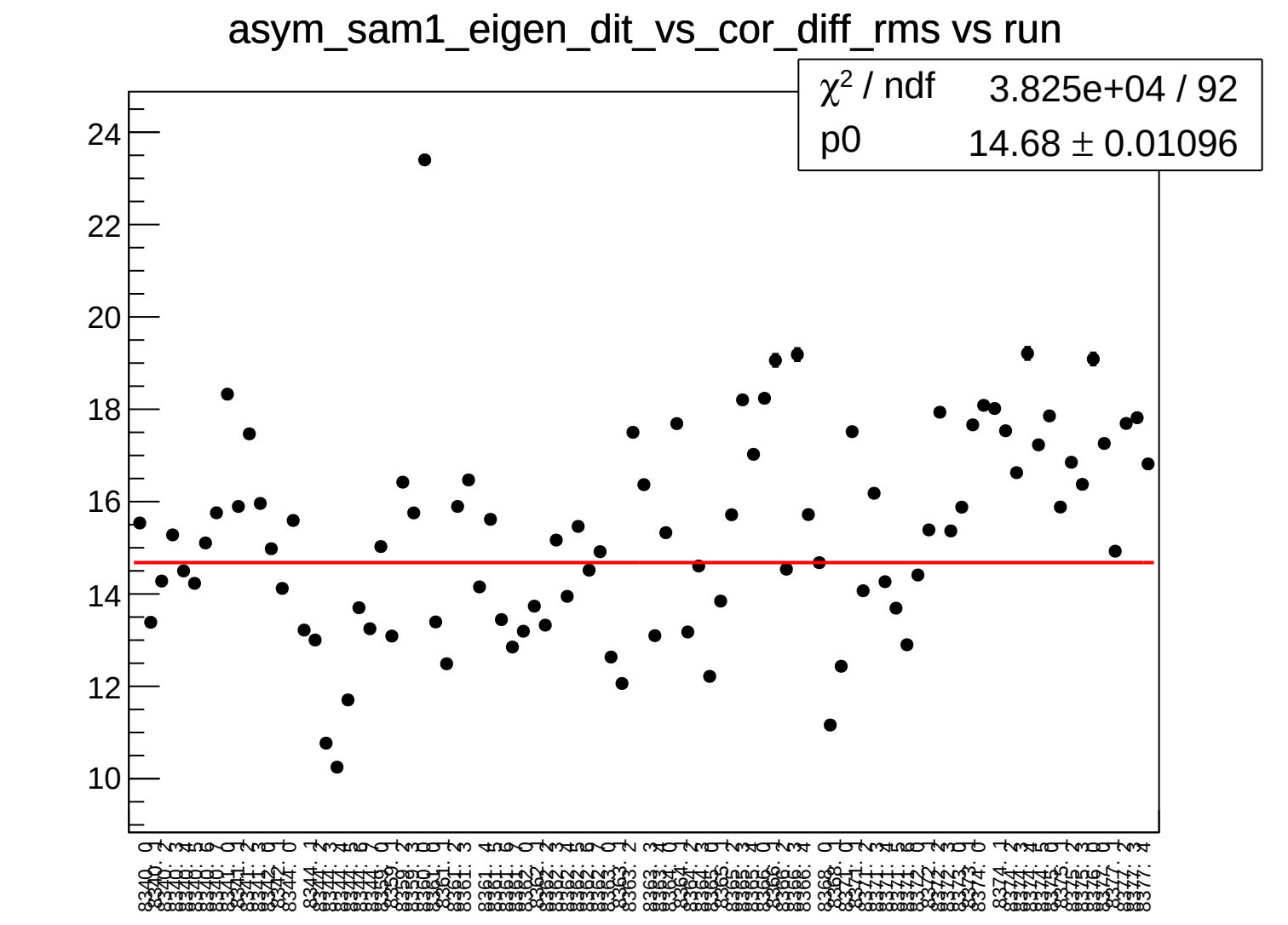

pull1D
Entries 93
Mean 0.07287
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

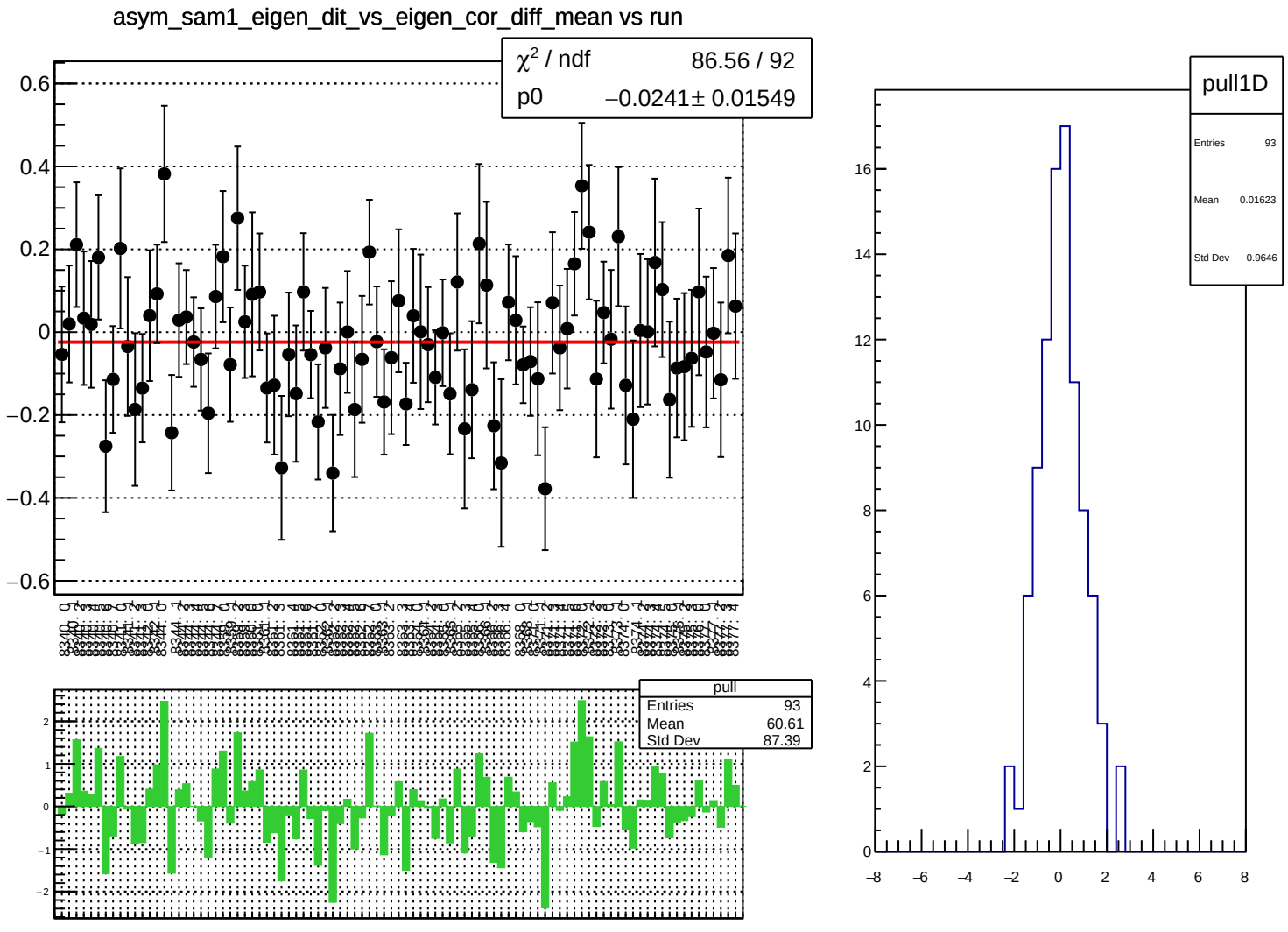

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.146e+04 / 92
p0 0.001221 ± 9.25e–07
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

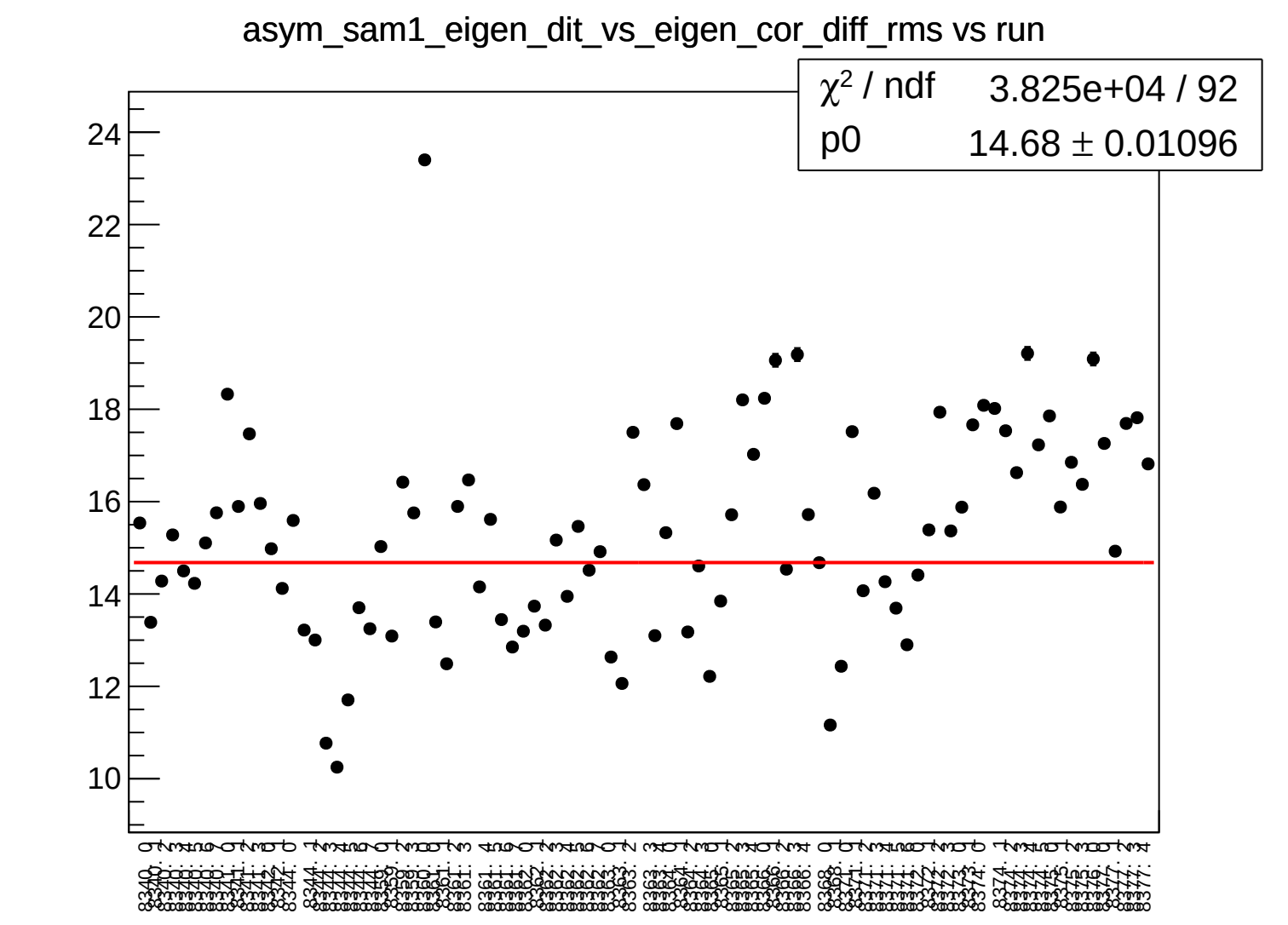
asym_sam1_eigen_dit_vs_cor_diff_mean vs run

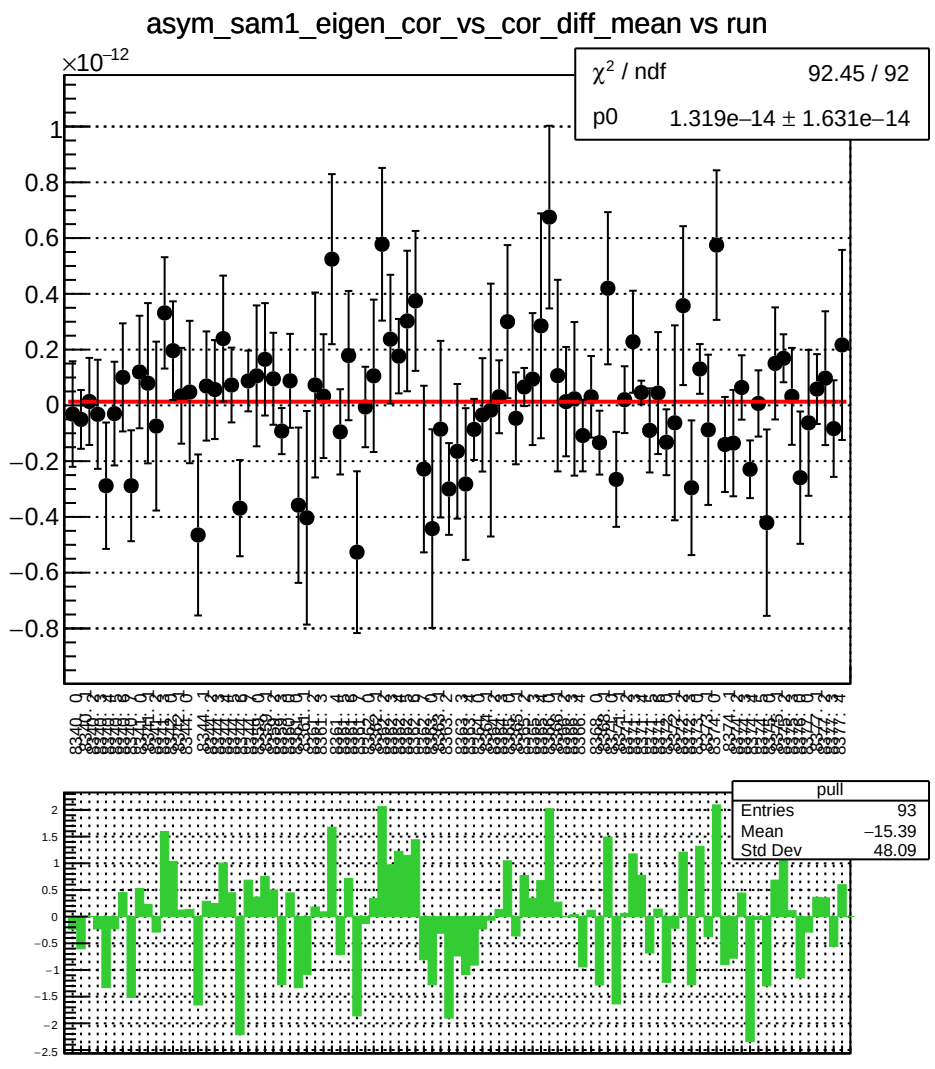


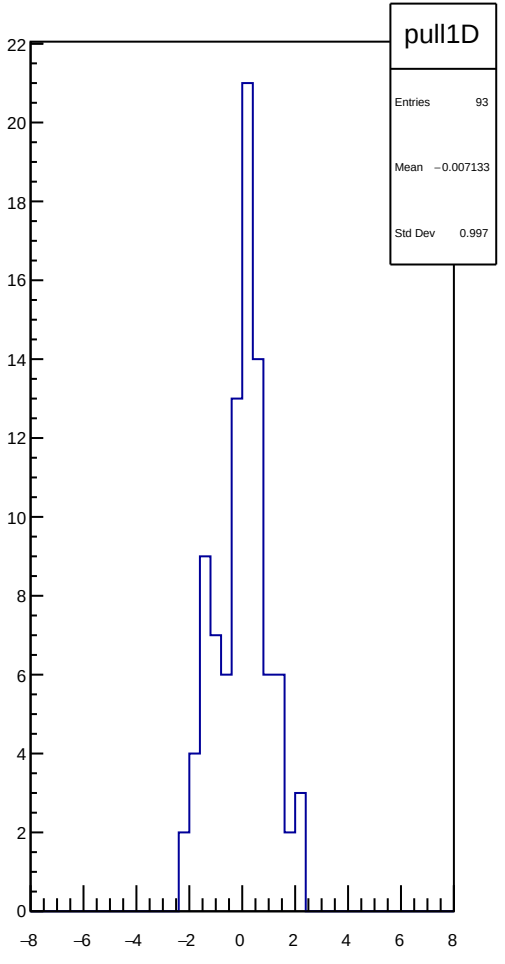


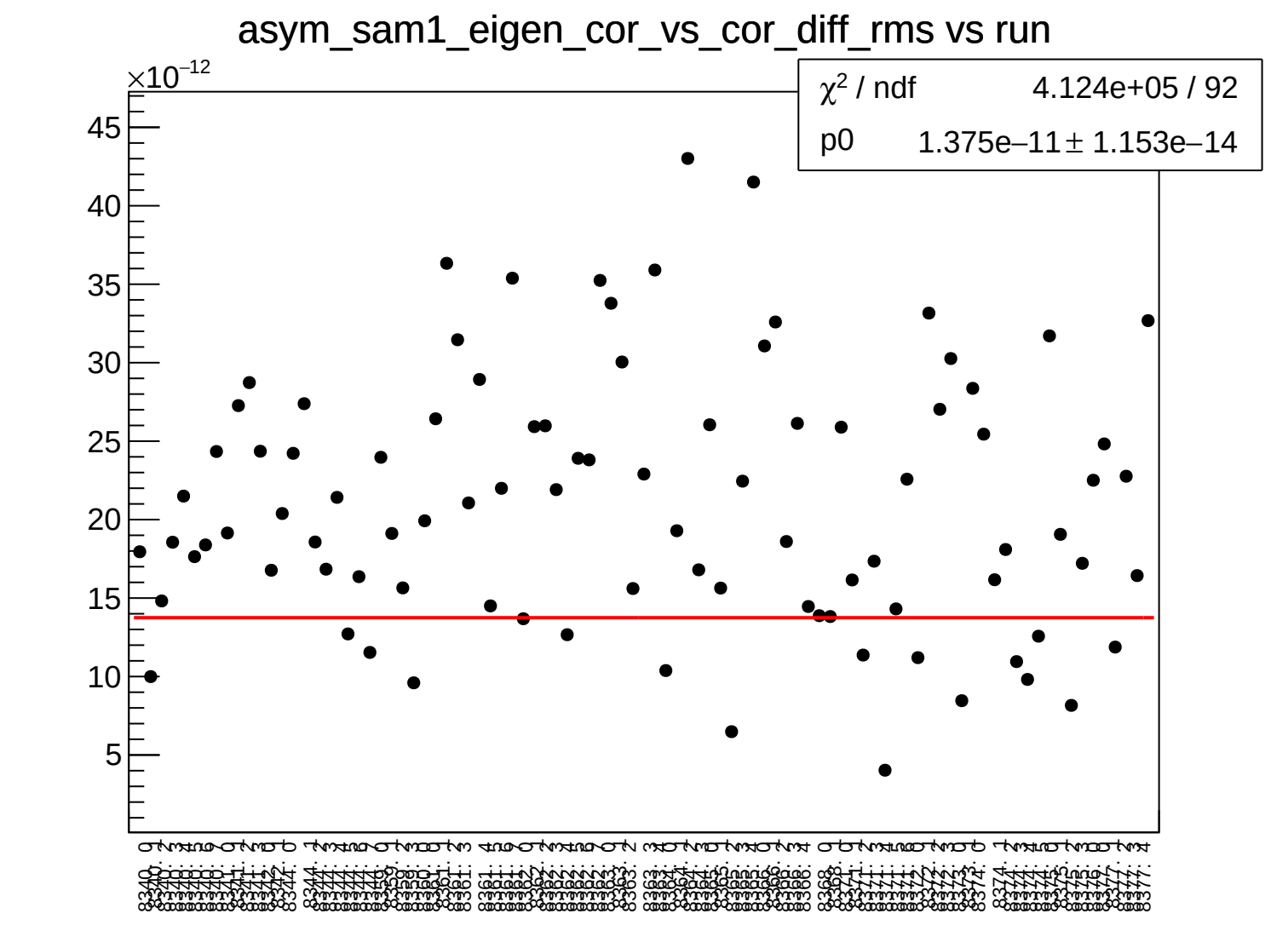

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.825e+04 / 92
p0 14.68 ± 0.01096
24
22
20
18
16
14
12
10

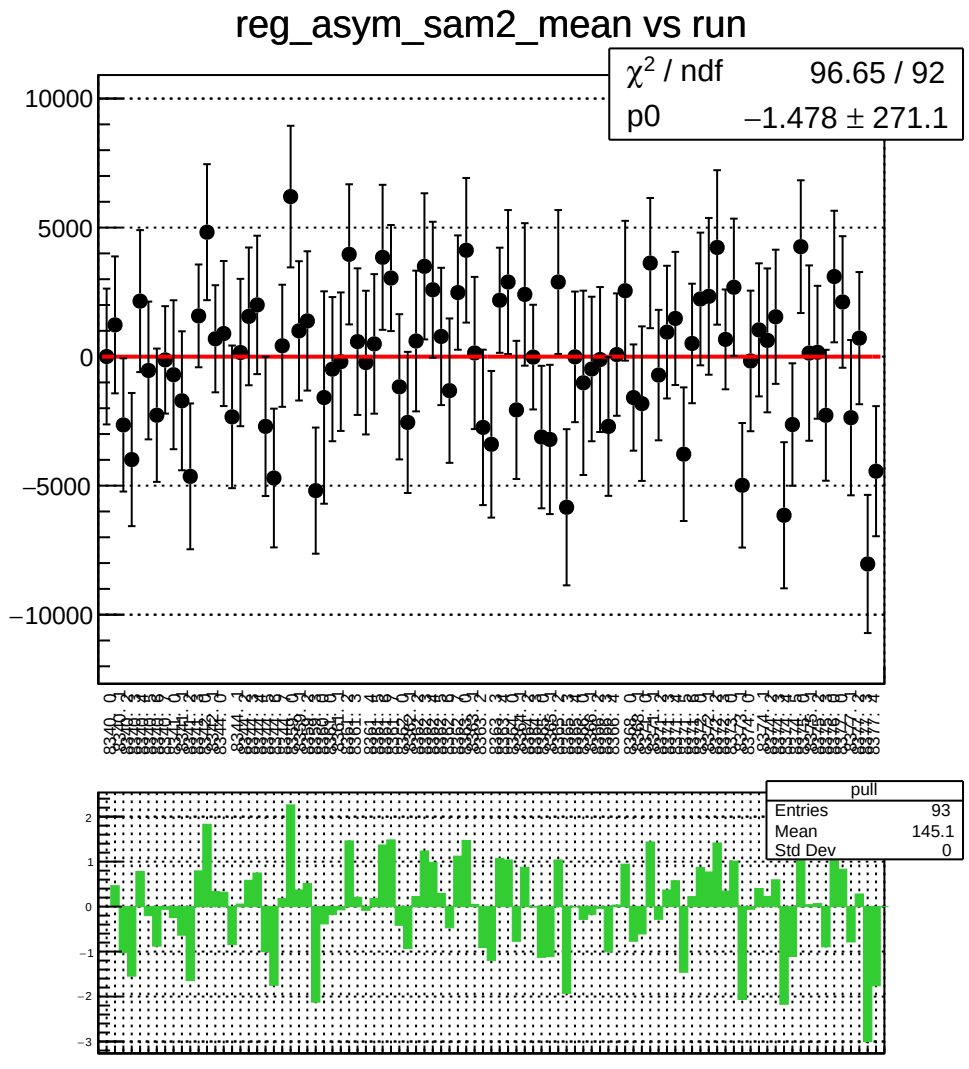

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.56 / 92
p0 −0.0241± 0.01549
pull
Entries 93
Mean 60.61
Std Dev 87.39
pull1D
Entries 93
Mean 0.01623
Std Dev 0.9646

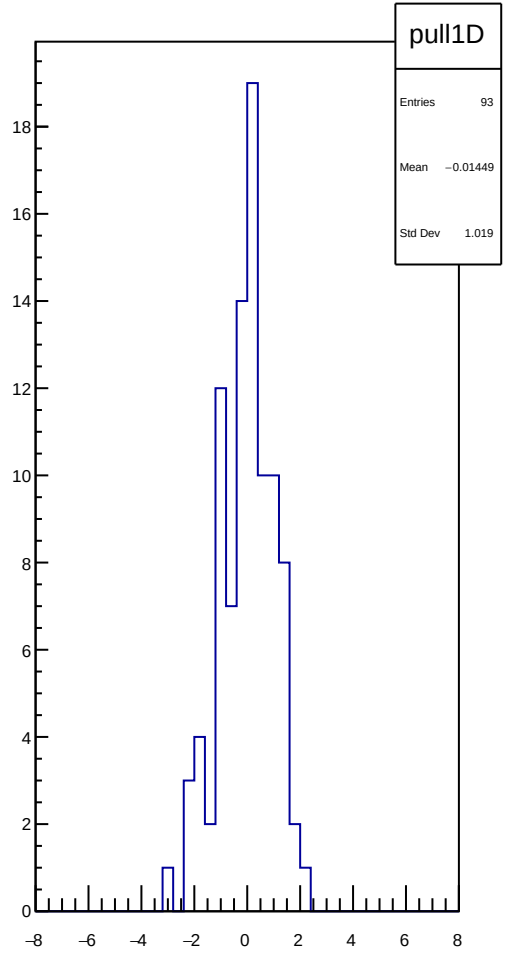

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.825e+04 / 92
p0 14.68 ± 0.01096
24
22
20
18
16
14
12
10

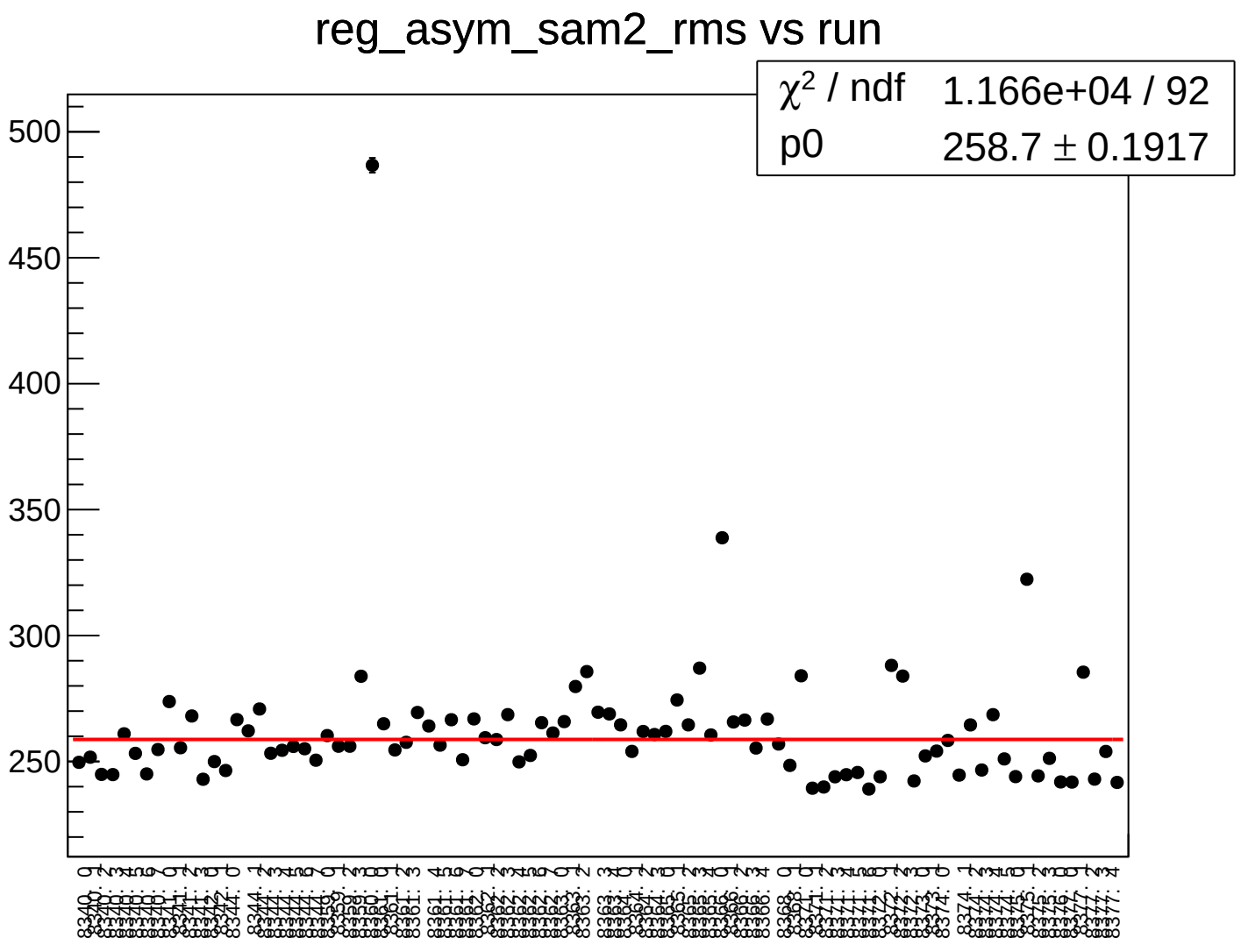

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.45 / 92
p0 1.319e−14 ± 1.631e−14
pull
Entries 93
Mean −15.39
Std Dev 48.09

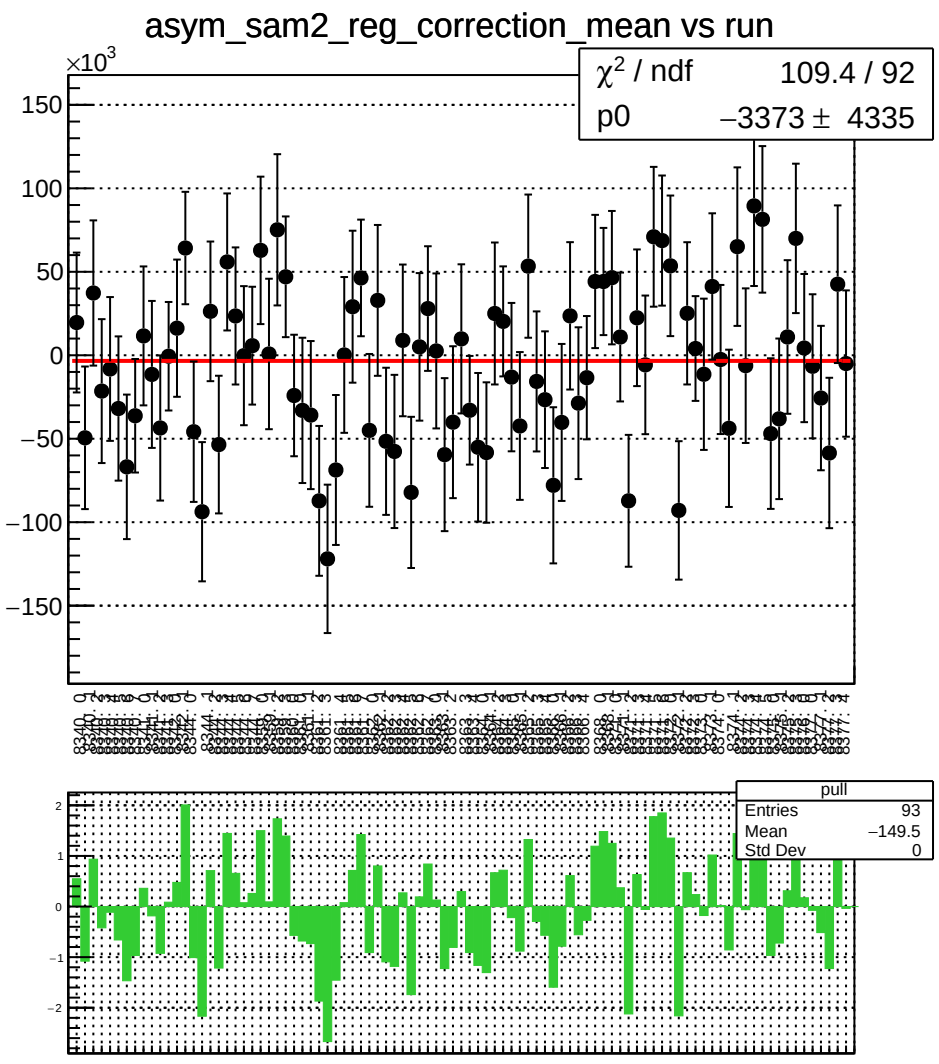

pull1D
Entries 93
Mean −0.007133
Std Dev 0.997

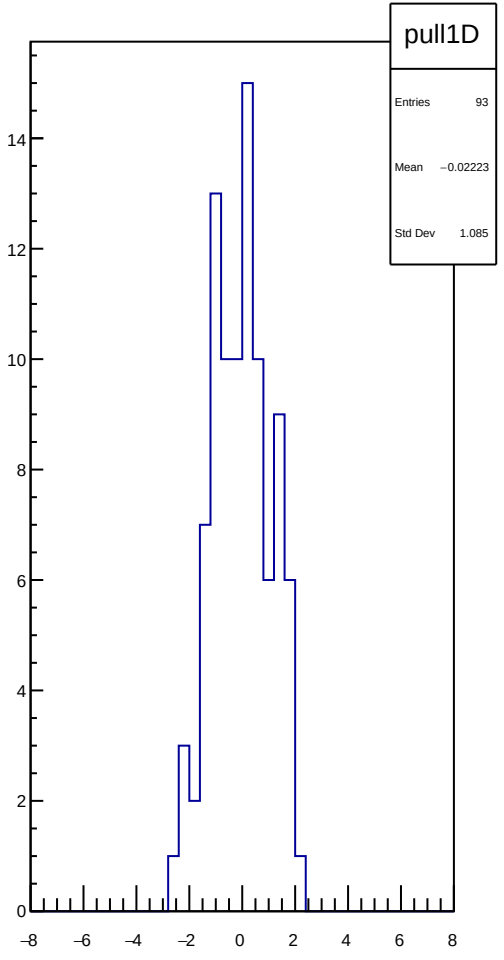

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.124e+05 / 92
p0 1.375e−11 ± 1.153e−14
45
40
35
30
25
20
15
10
5

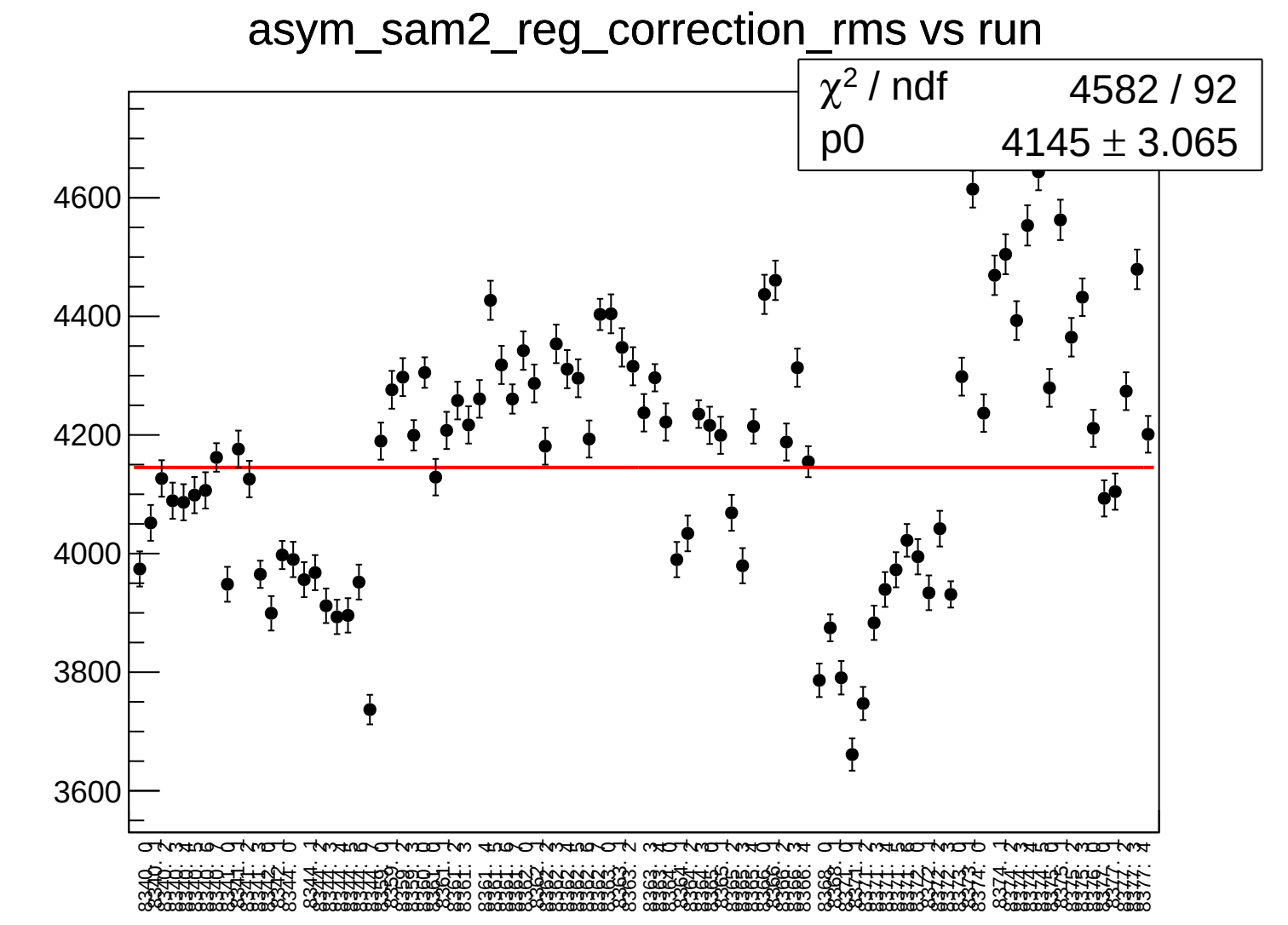

reg_asym_sam2_mean vs run
χ^2 / ndf 96.65 / 92
p0 −1.478 ± 271.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3

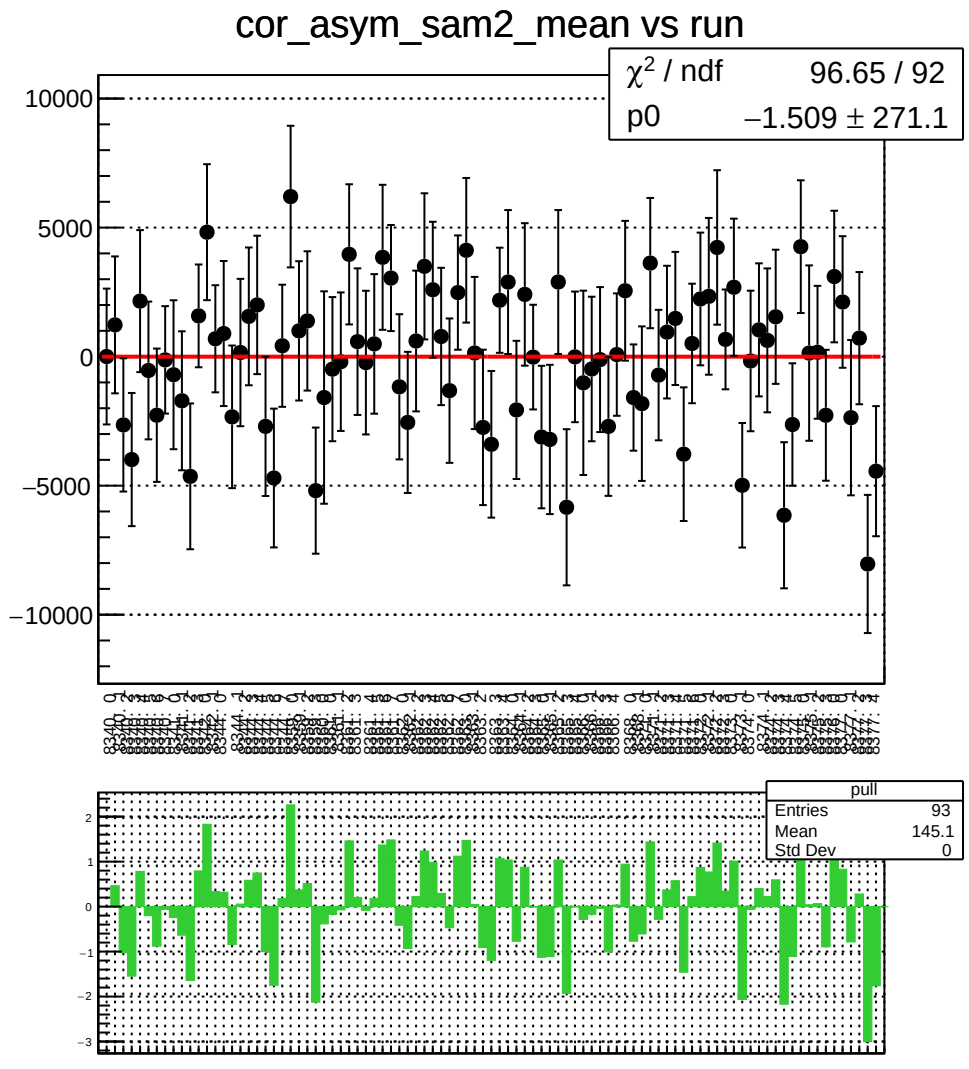

pull1D
Entries 93
Mean −0.01449
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

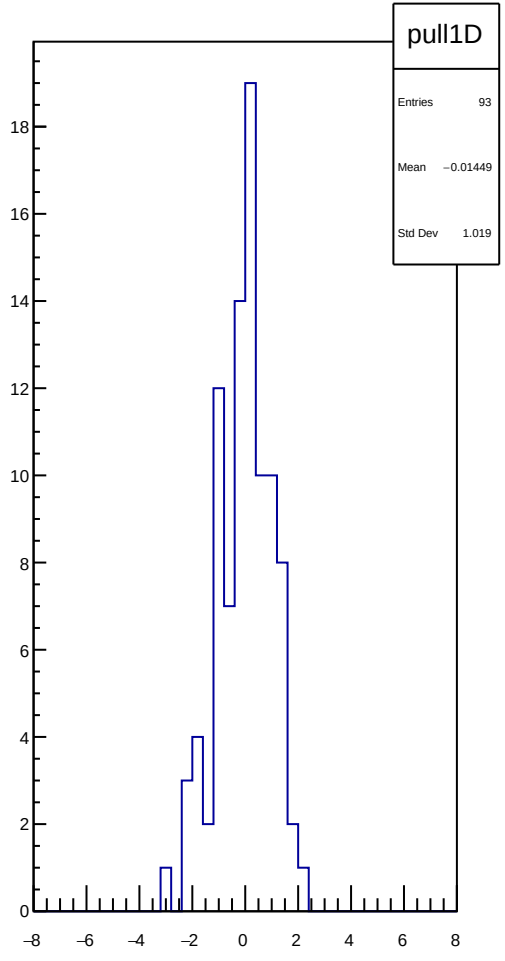

reg_asym_sam2_rms vs run
χ² / ndf 1.166e+04 / 92
p0 258.7 ± 0.1917
500
450
400
350
300
250

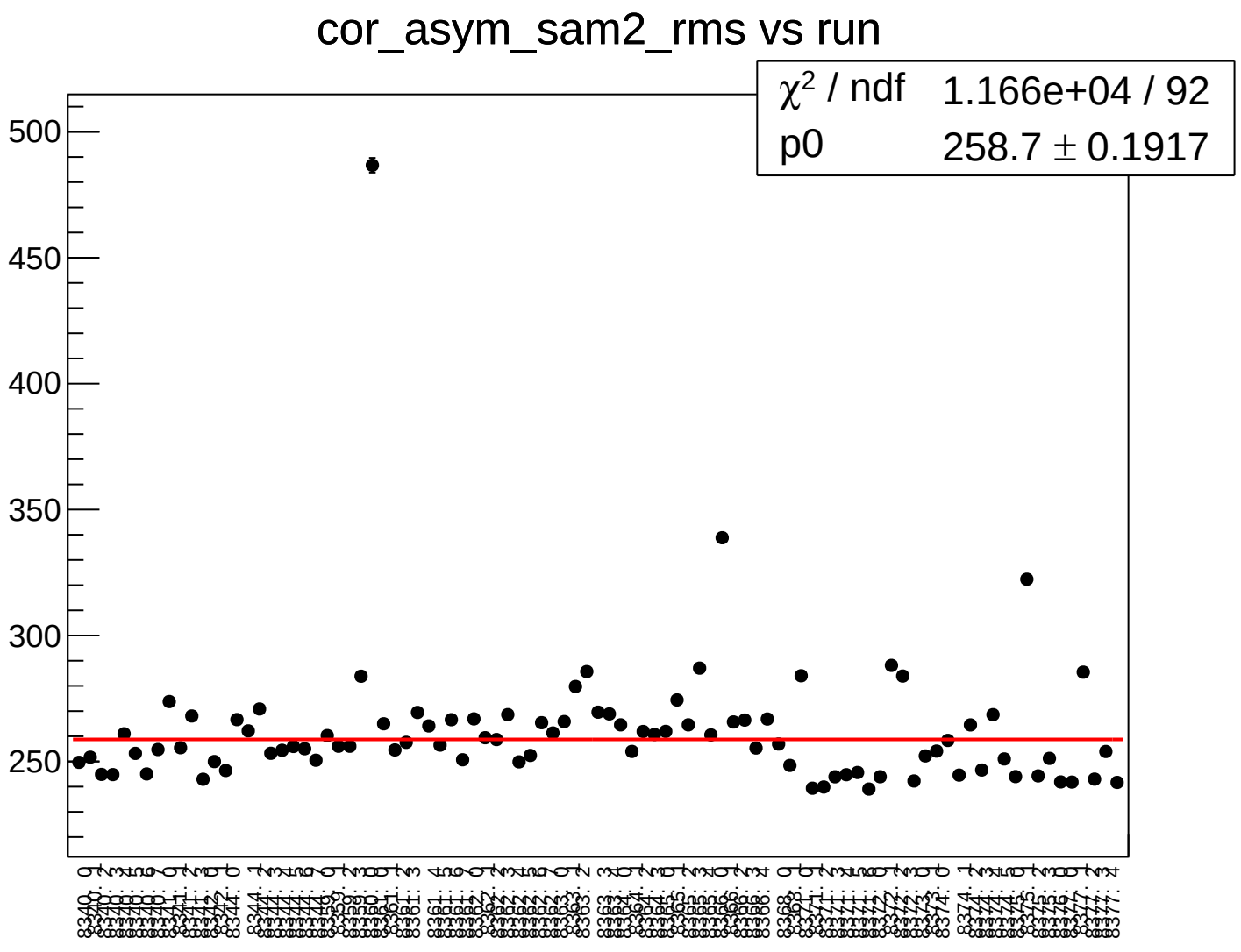

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 109.4 / 92
p0 −3373 ± 4335
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −149.5
Std Dev 0
2
1
0
−1
−2

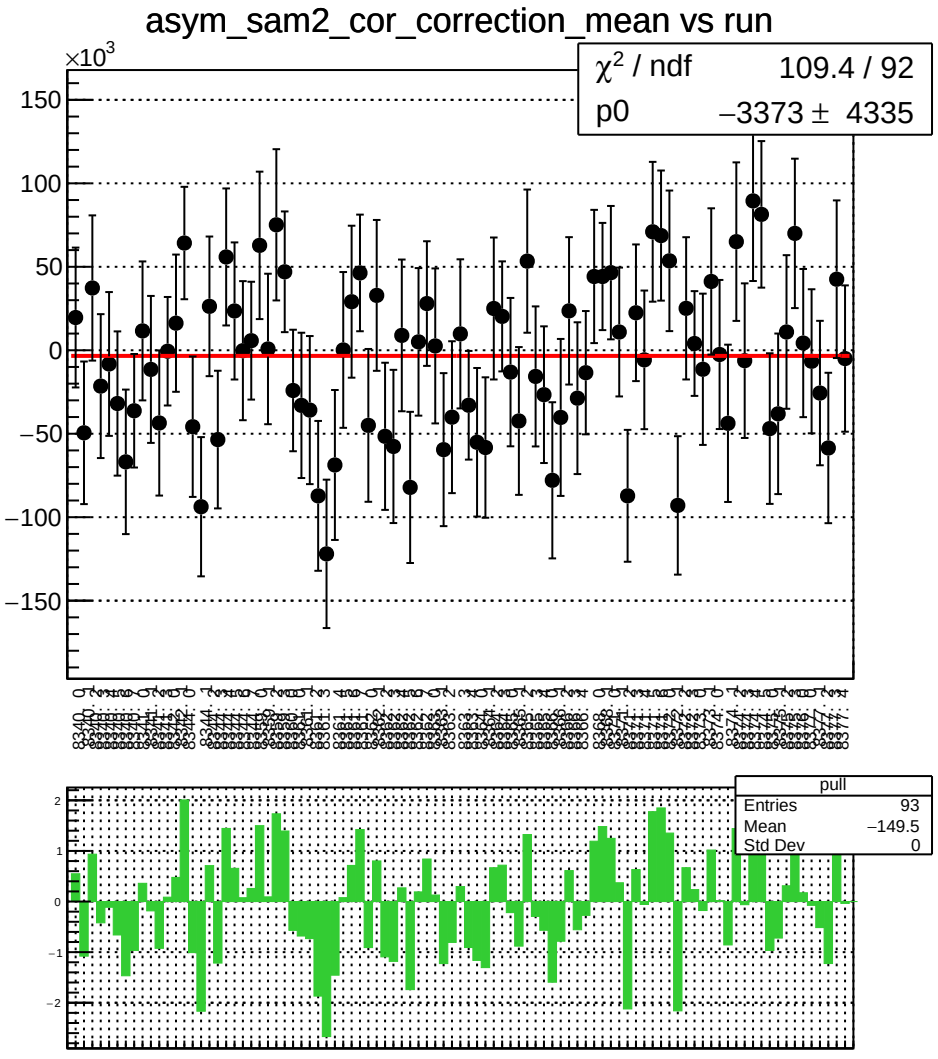

pull1D
Entries 93
Mean −0.02223
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

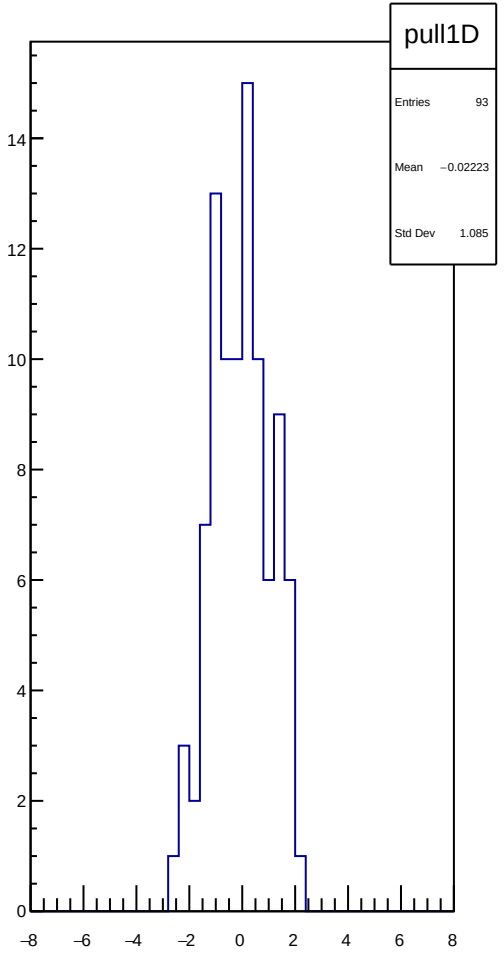

asym_sam2_reg_correction_rms vs run
χ² / ndf 4582 / 92
p0 4145 ± 3.065
4600
4400
4200
4000
3800
3600

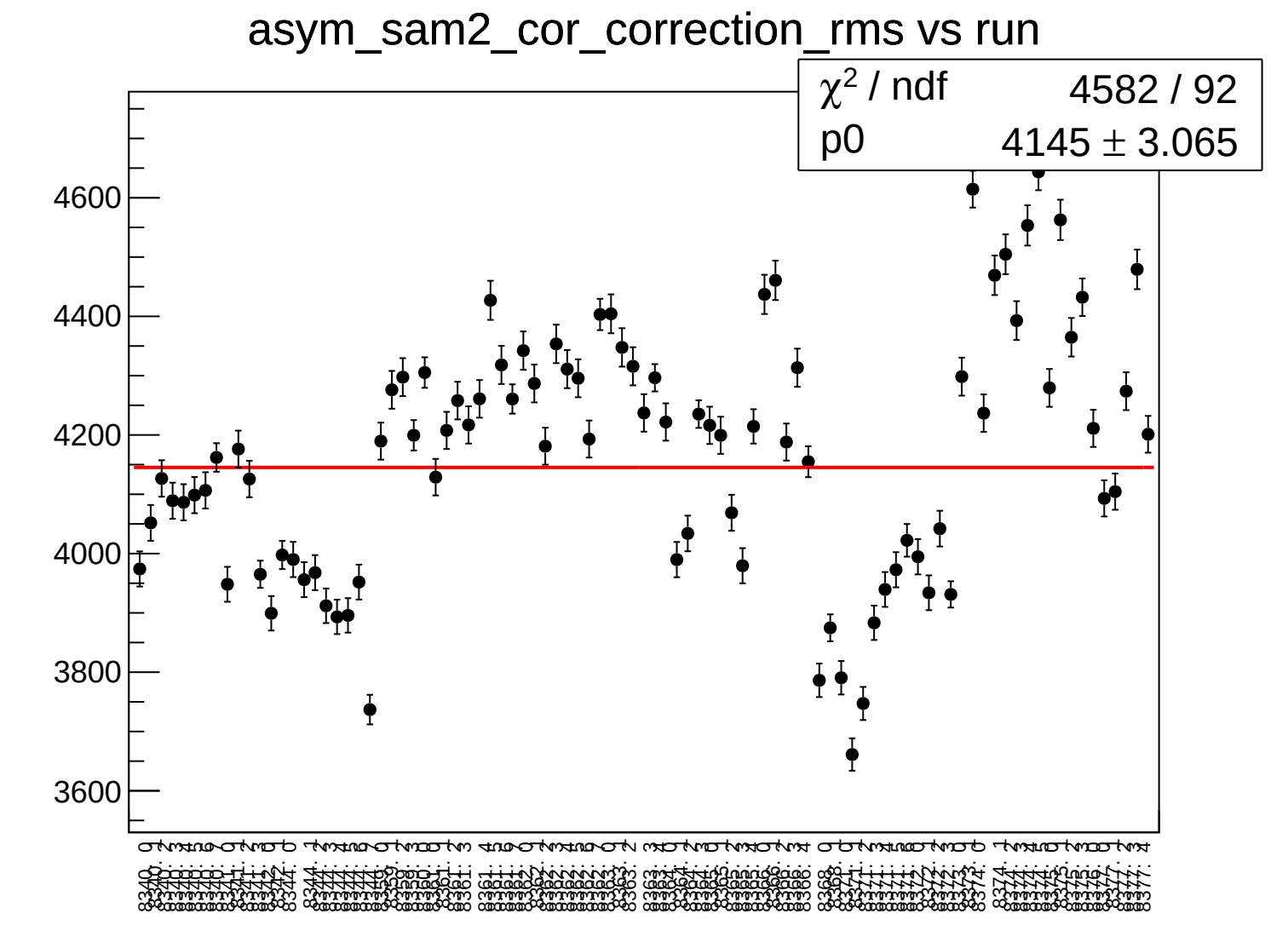

cor_asym_sam2_mean vs run
χ² / ndf 96.65 / 92
p0 −1.509 ± 271.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3

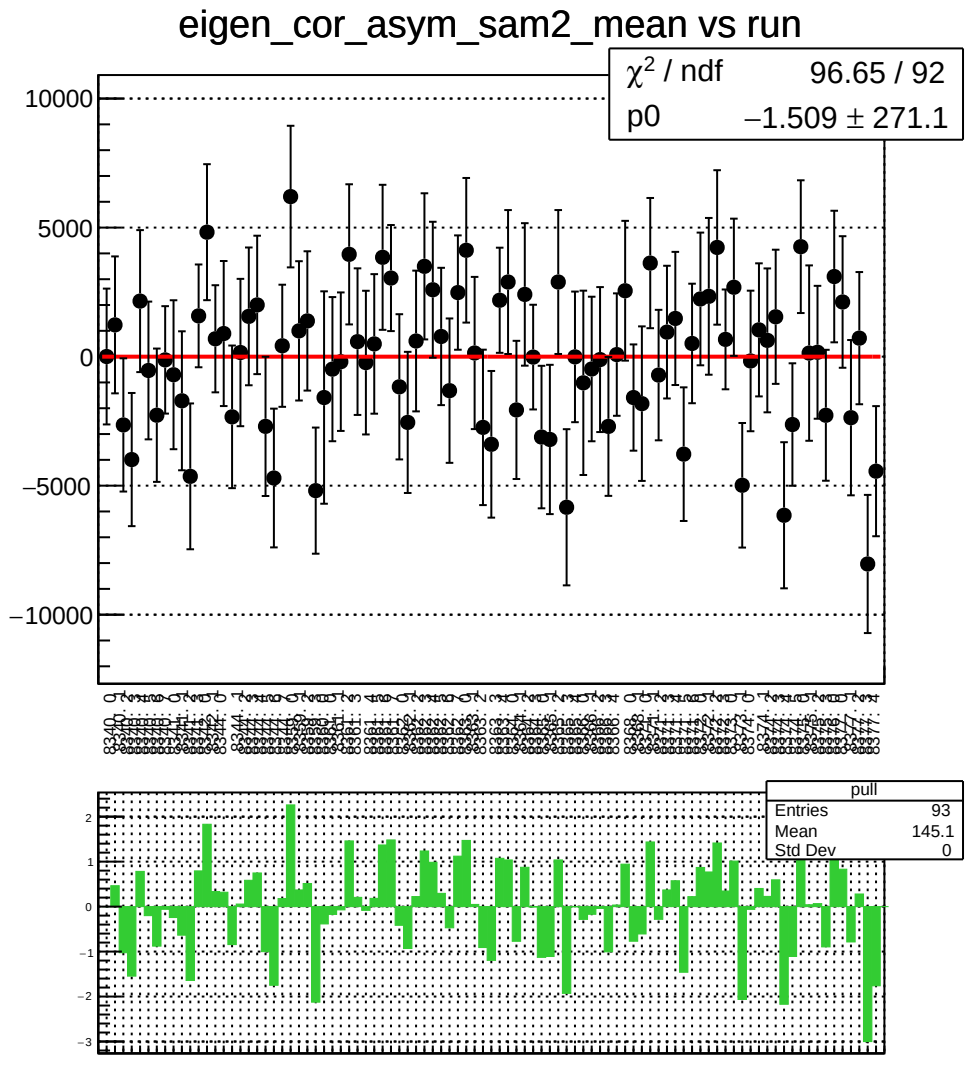

pull1D
Entries 93
Mean −0.01449
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

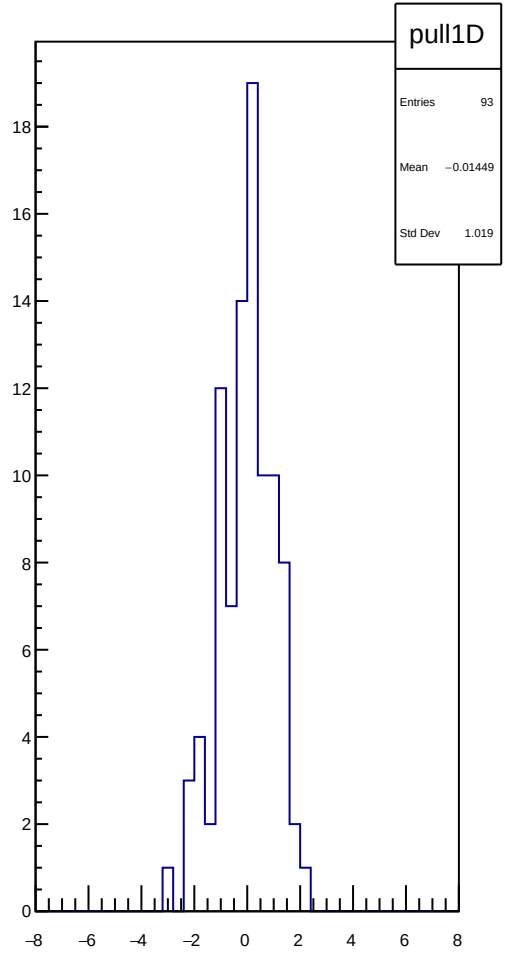

cor_asym_sam2_rms vs run
χ² / ndf 1.166e+04 / 92
p0 258.7 ± 0.1917
500
450
400
350
300
250

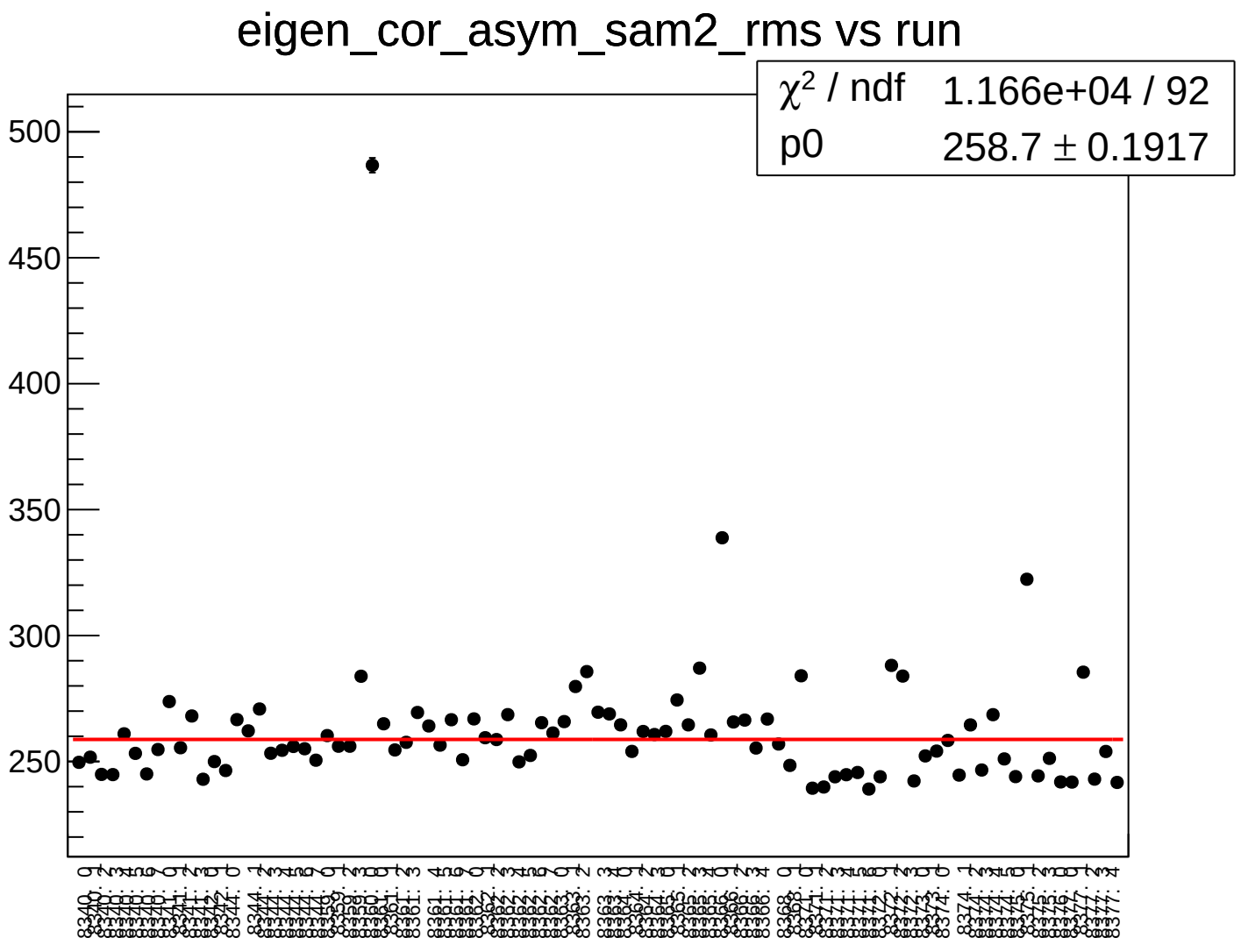

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 109.4 / 92
p0 −3373 ± 4335
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −149.5
Std Dev 0
2
1
0
−1
−2

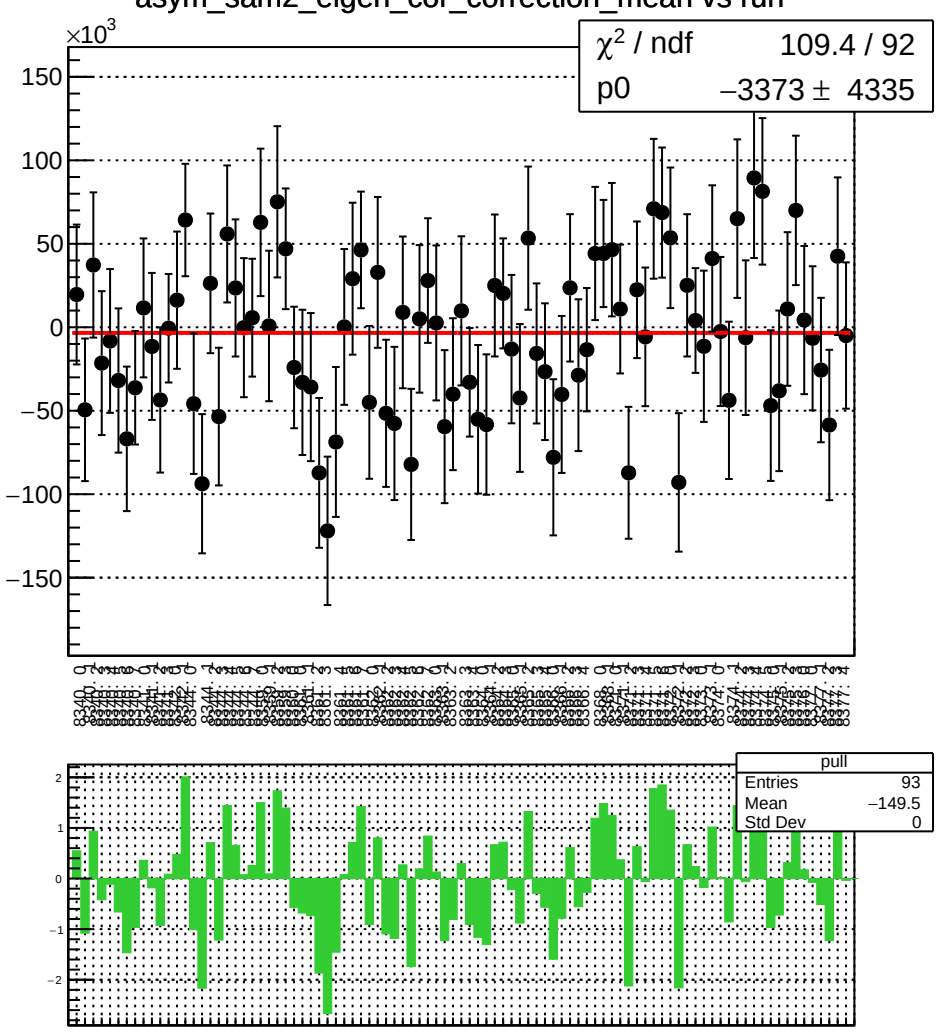

pull1D
Entries 93
Mean −0.02223
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

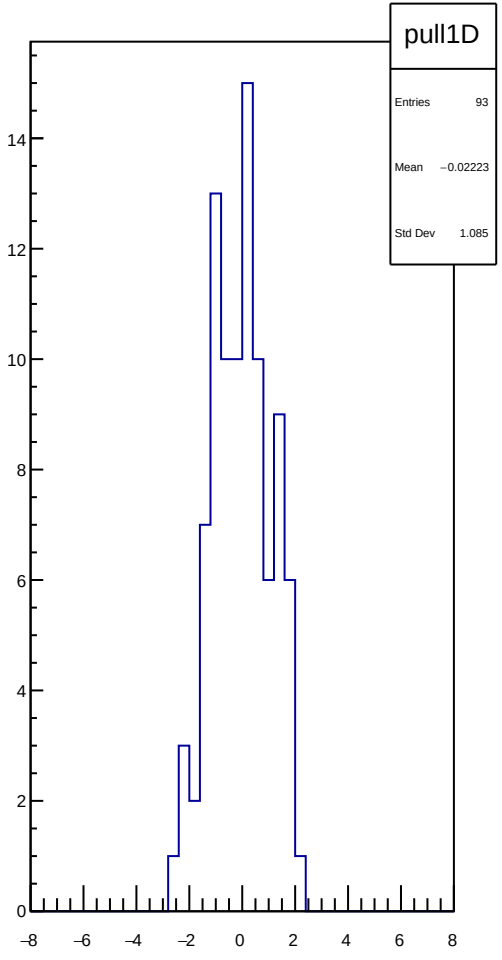

asym_sam2_cor_correction_rms vs run
χ² / ndf 4582 / 92
p0 4145 ± 3.065
4600
4400
4200
4000
3800
3600

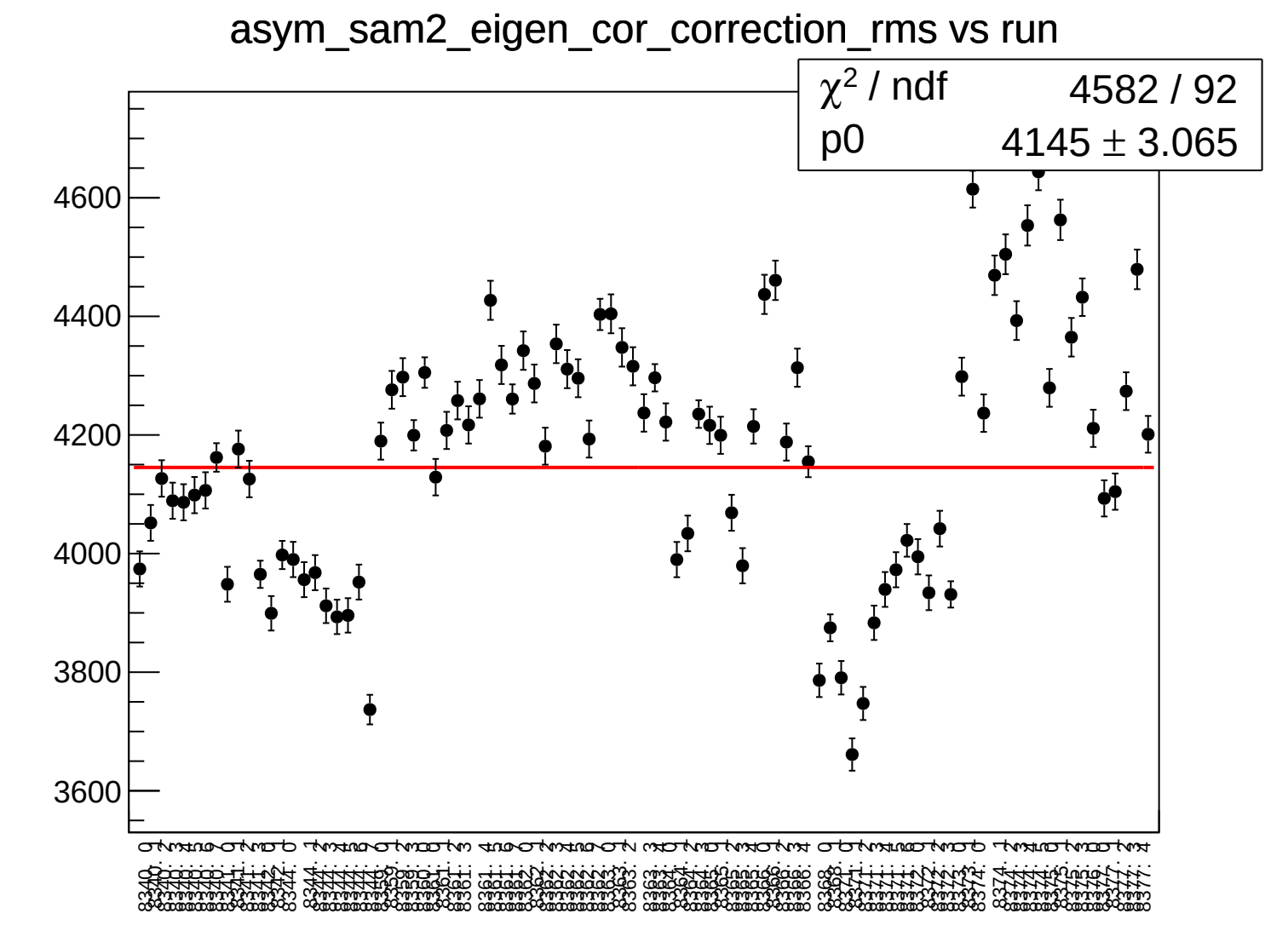

eigen_cor_asym_sam2_mean vs run
χ² / ndf 96.65 / 92
p0 −1.509 ± 271.1
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 145.1
Std Dev 0
2
1
0
−1
−2
−3

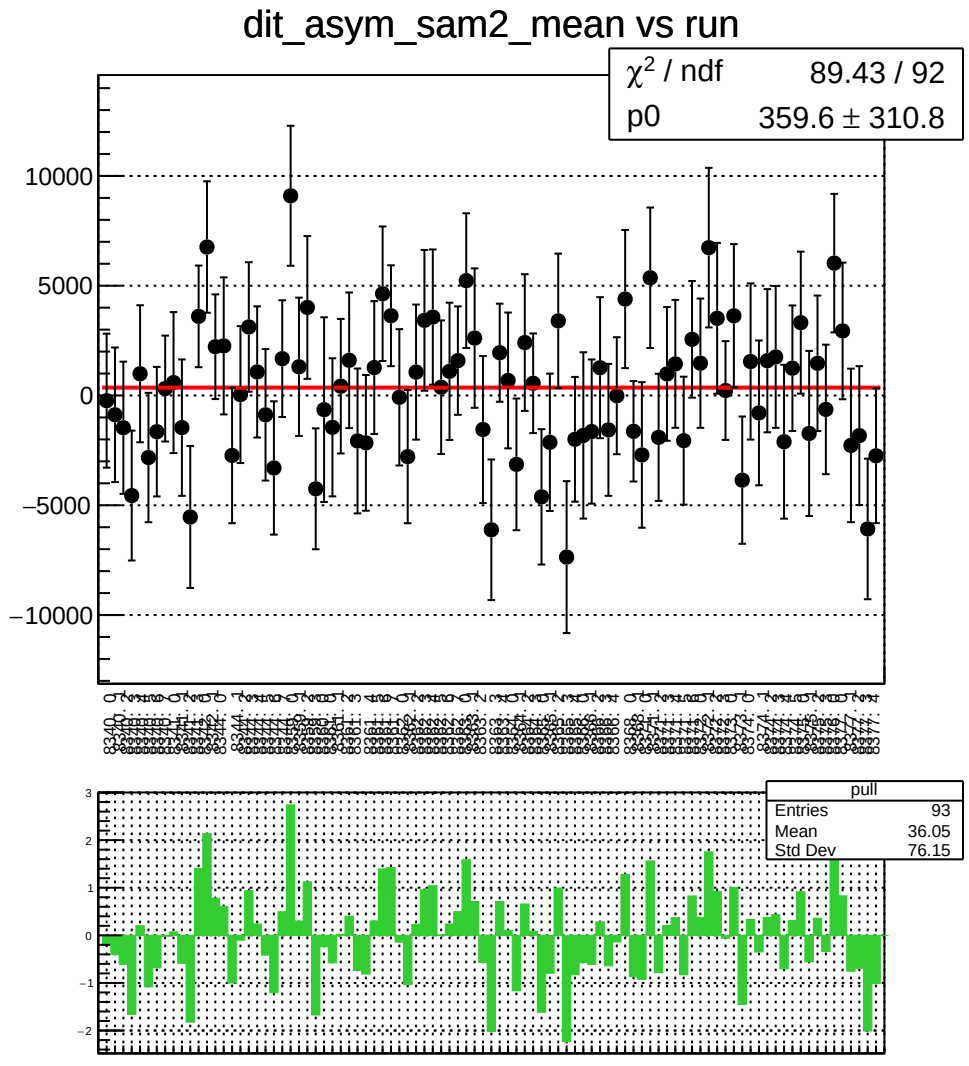

pull1D
Entries 93
Mean −0.01449
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

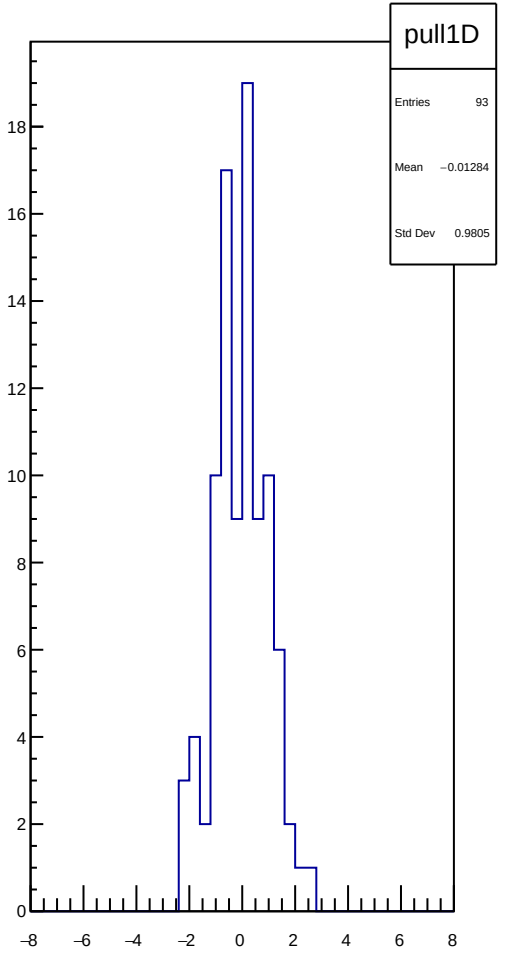

eigen_cor_asym_sam2_rms vs run
χ^2 / ndf 1.166e+04 / 92
p0 258.7 ± 0.1917
500
450
400
350
300
250

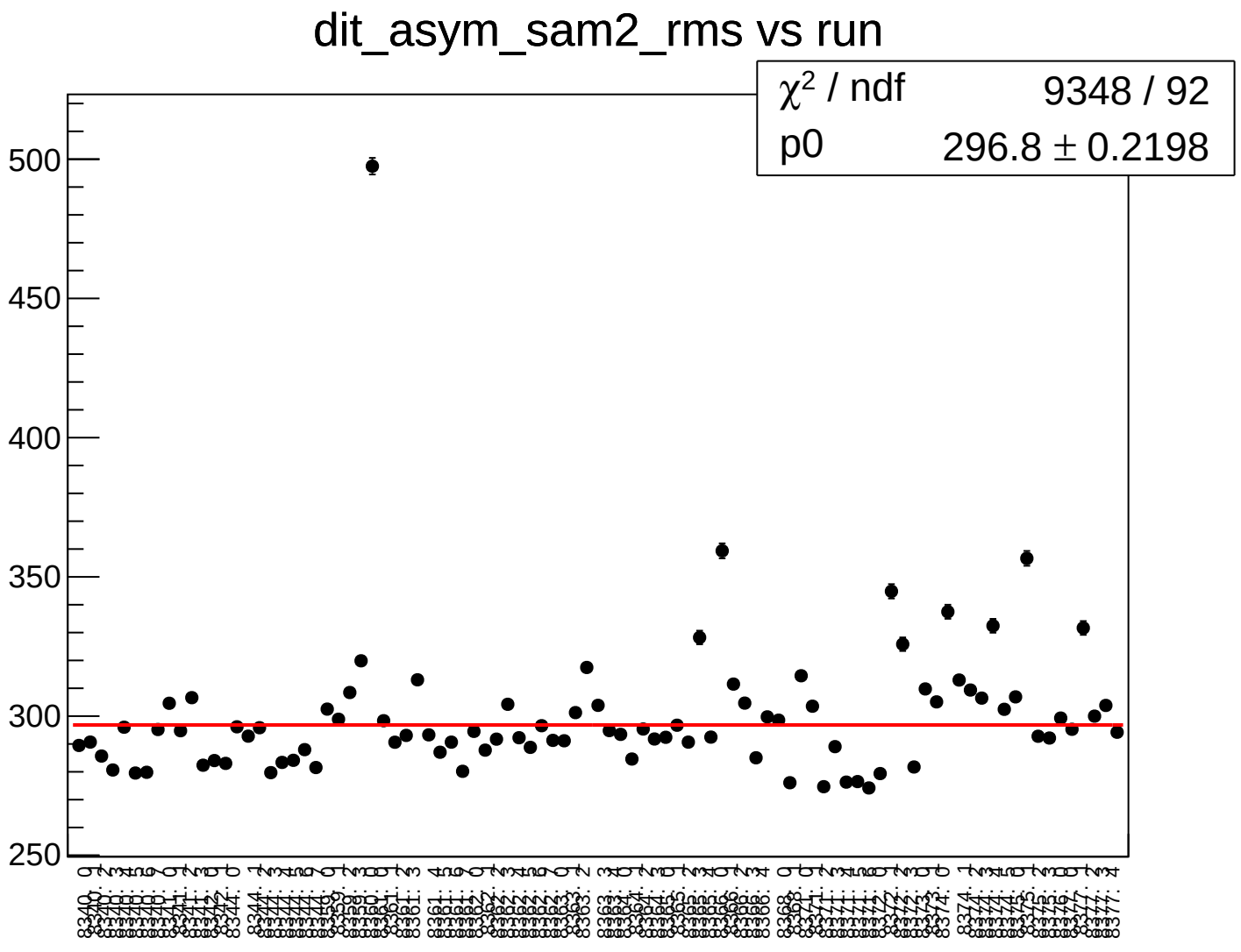

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.4 / 92
p0 −3373 ± 4335
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −149.5
Std Dev 0
2
1
0
−1
−2

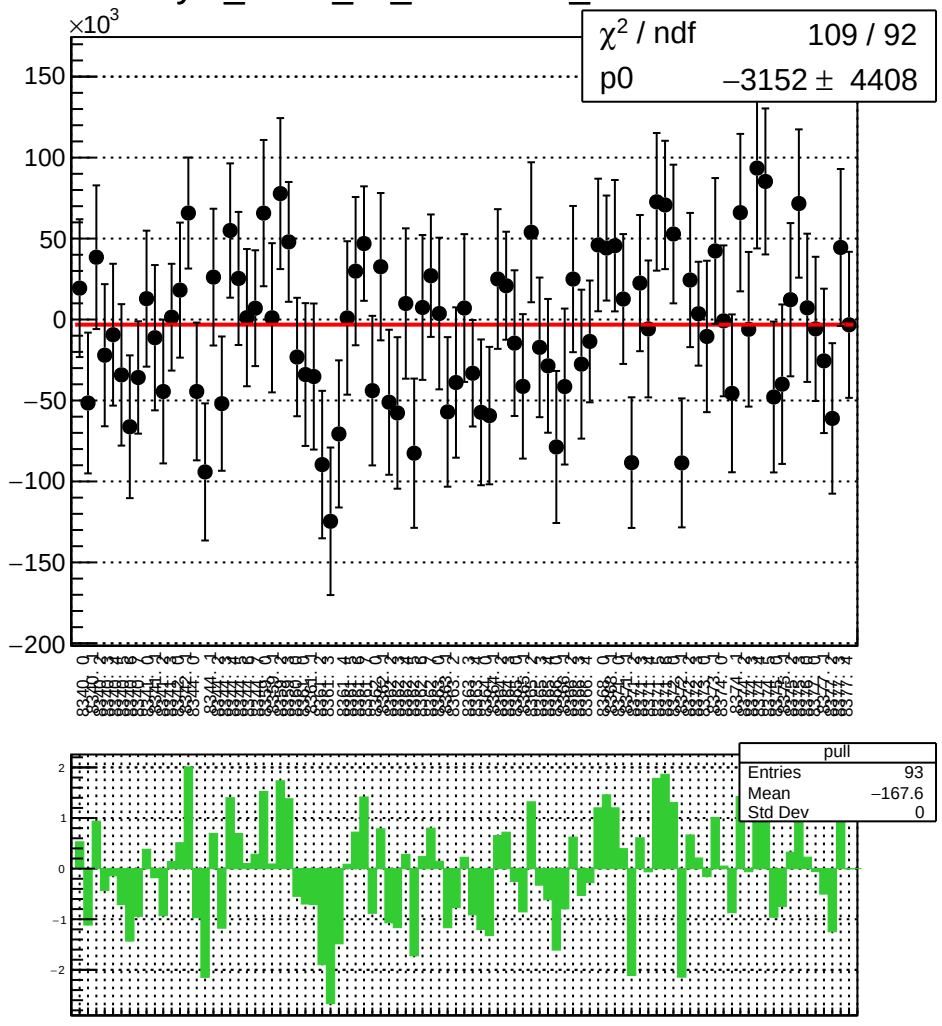

pull1D
Entries 93
Mean −0.02223
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

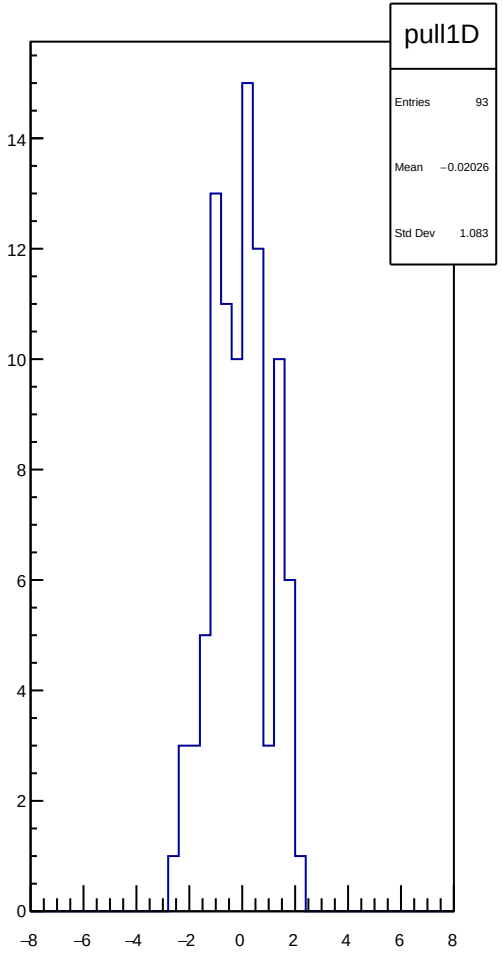

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4582 / 92
p0 4145 ± 3.065
4600
4400
4200
4000
3800
3600

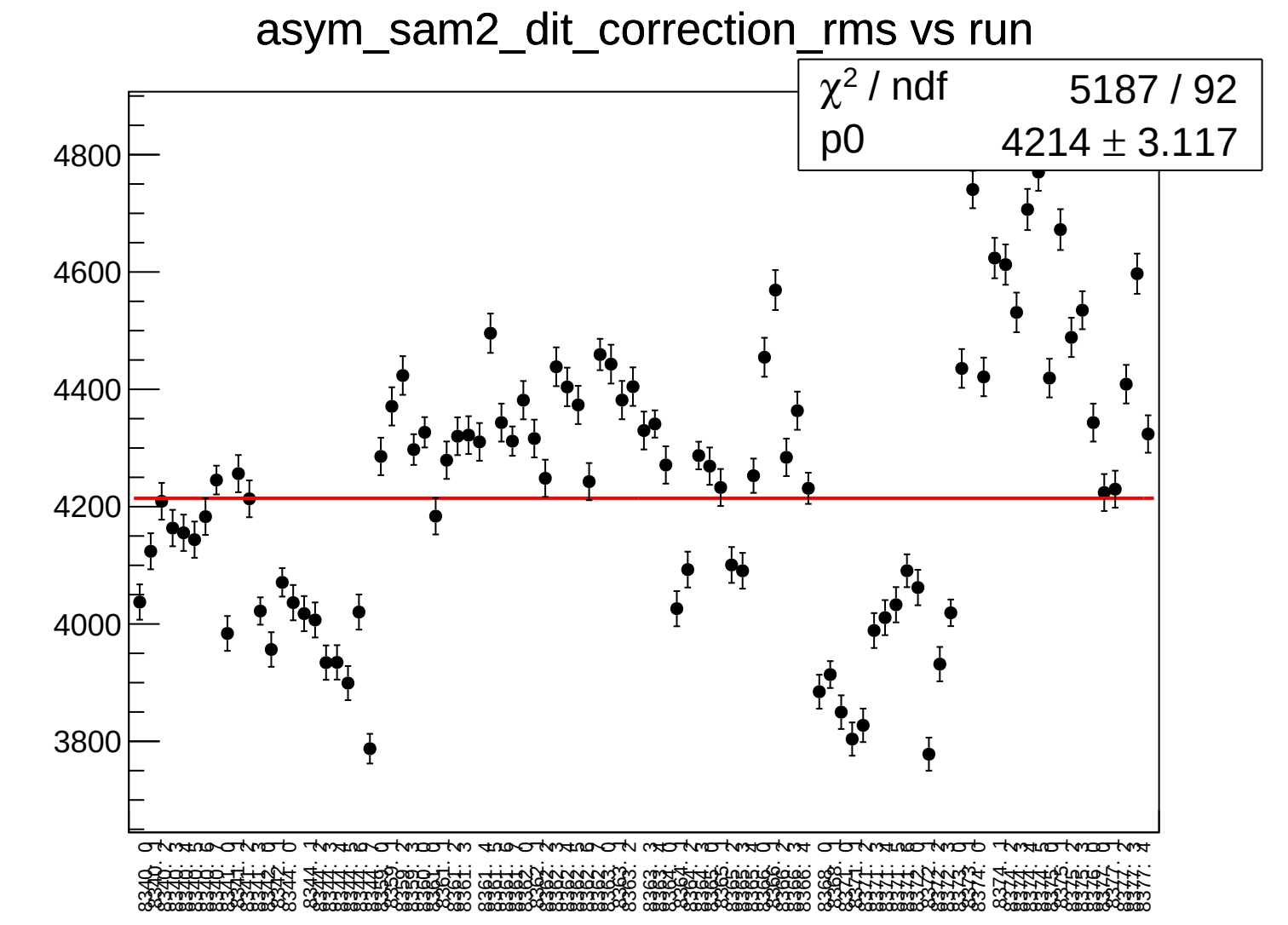

dit_asym_sam2_mean vs run
χ² / ndf 89.43 / 92
p0 359.6 ± 310.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 36.05
Std Dev 76.15
3
2
1
0
−1
−2

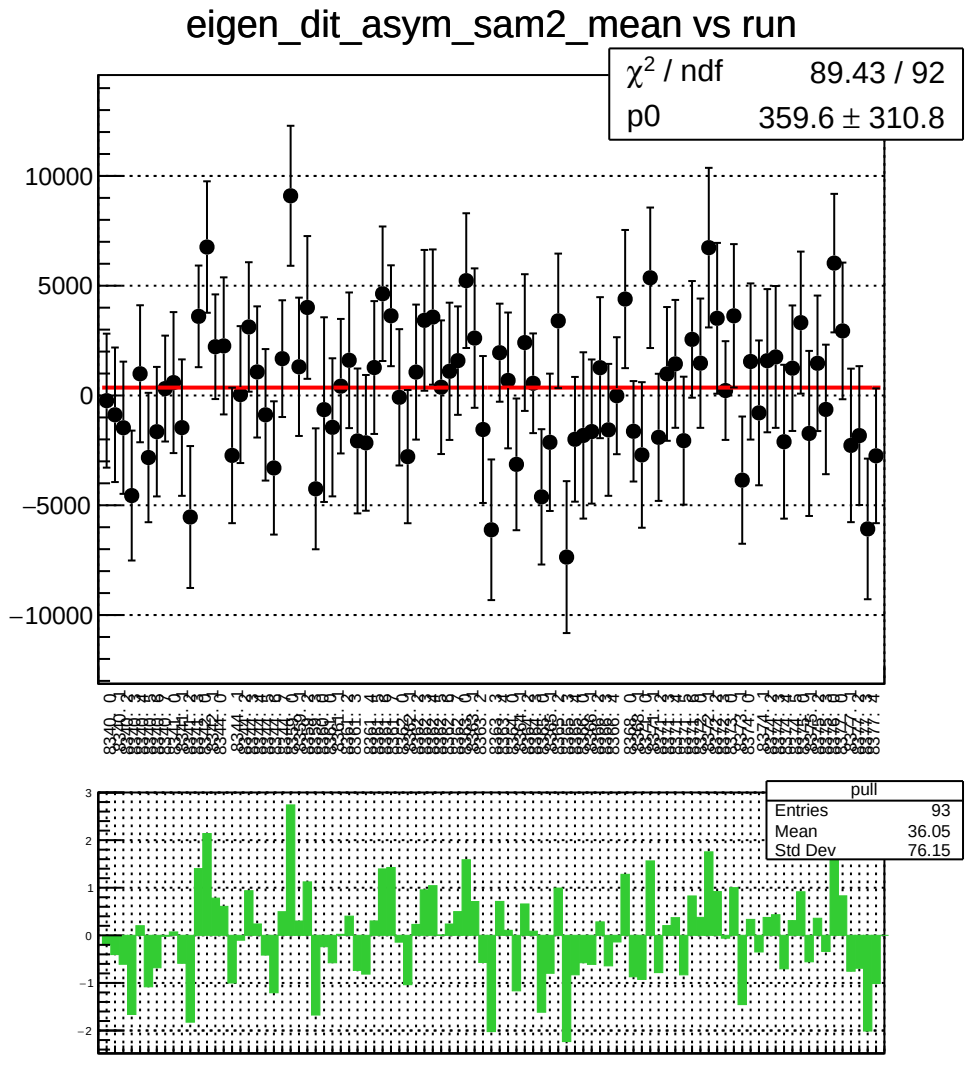

pull1D
Entries 93
Mean −0.01284
Std Dev 0.9805
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

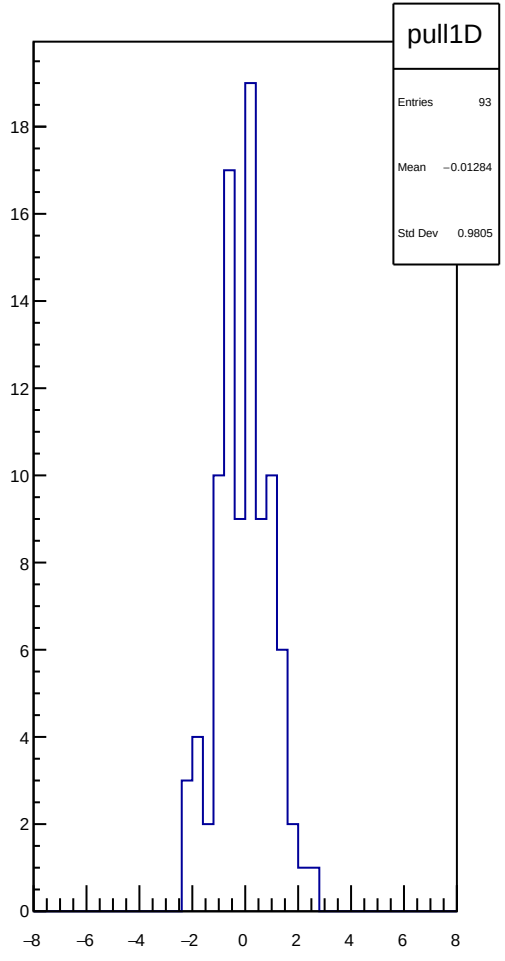

dit_asym_sam2_rms vs run
χ² / ndf 9348 / 92
p0 296.8 ± 0.2198
500
450
400
350
300
250

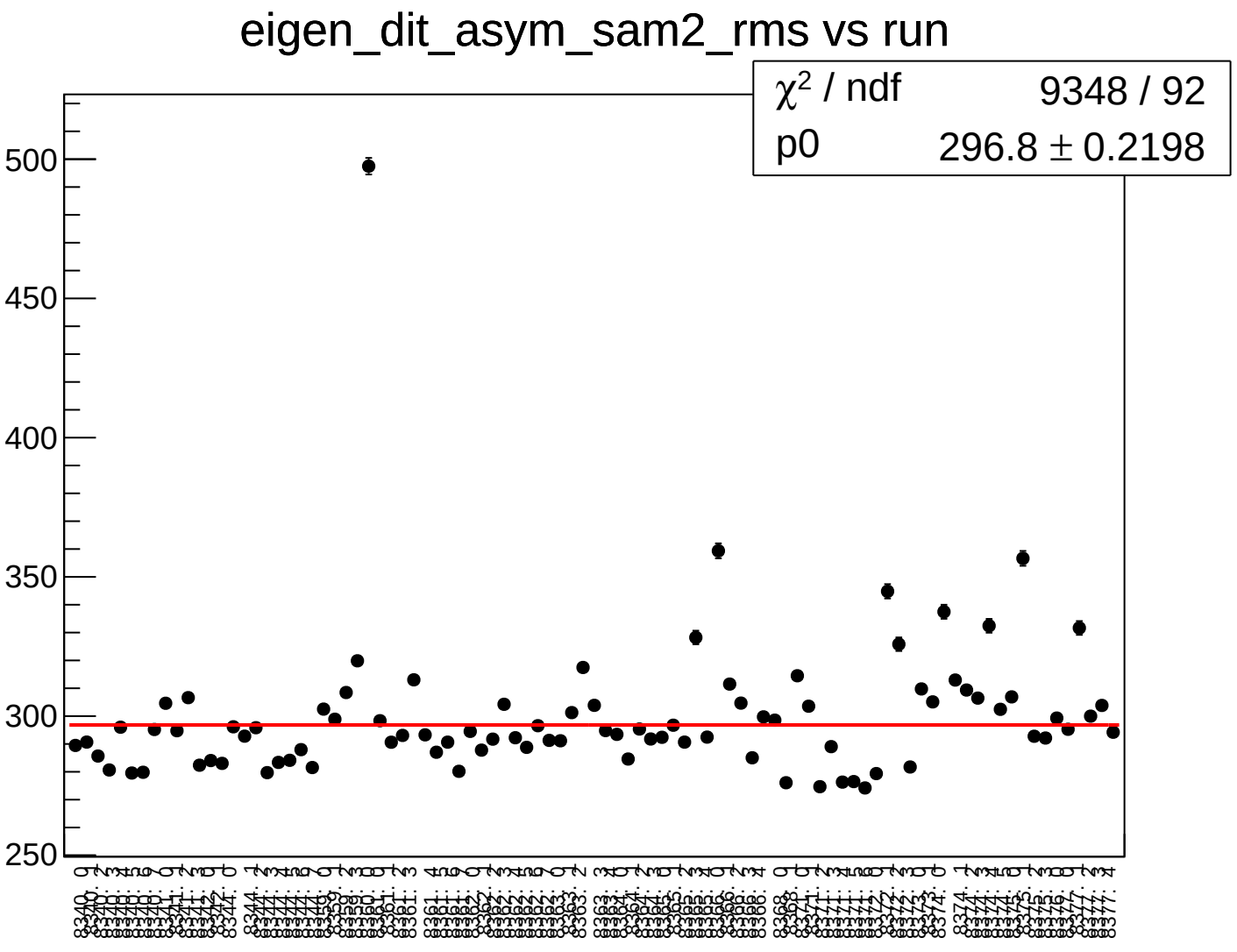

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 109 / 92
p0 −3152 ± 4408
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −167.6
Std Dev 0
2
1
0
−1
−2

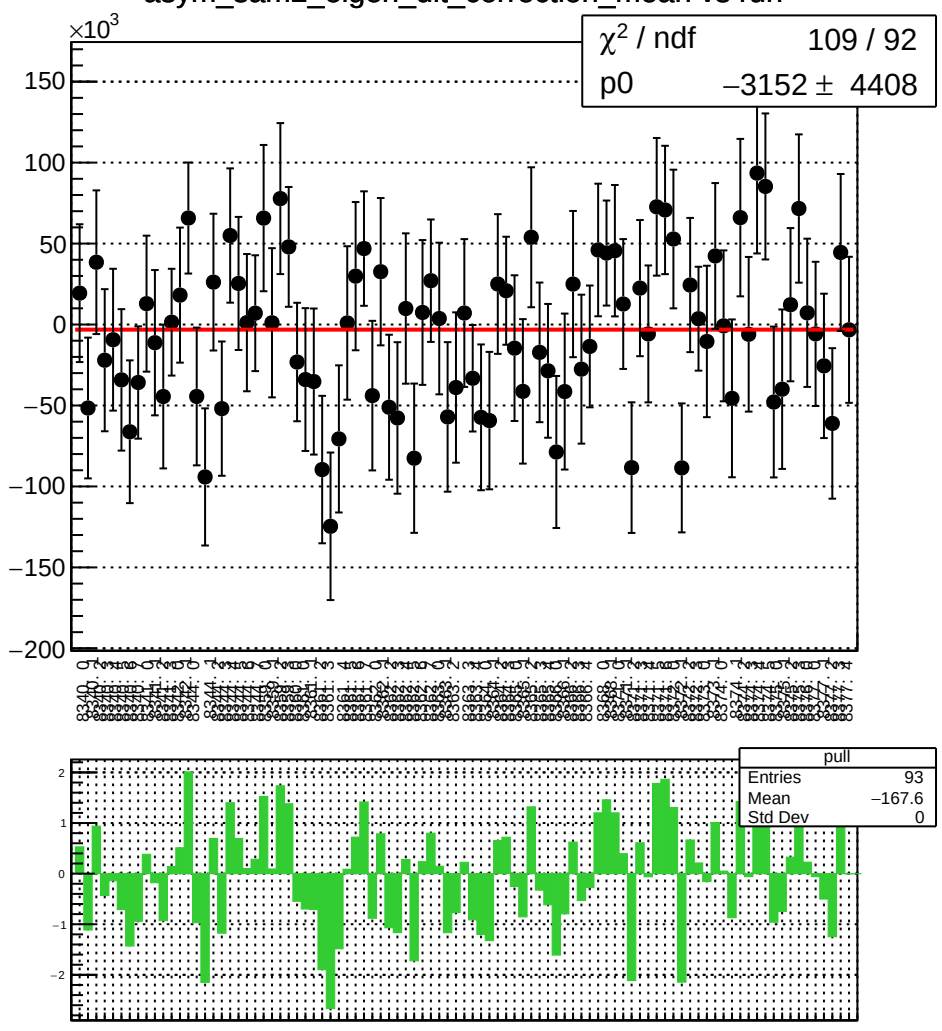

pull1D
Entries 93
Mean −0.02026
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

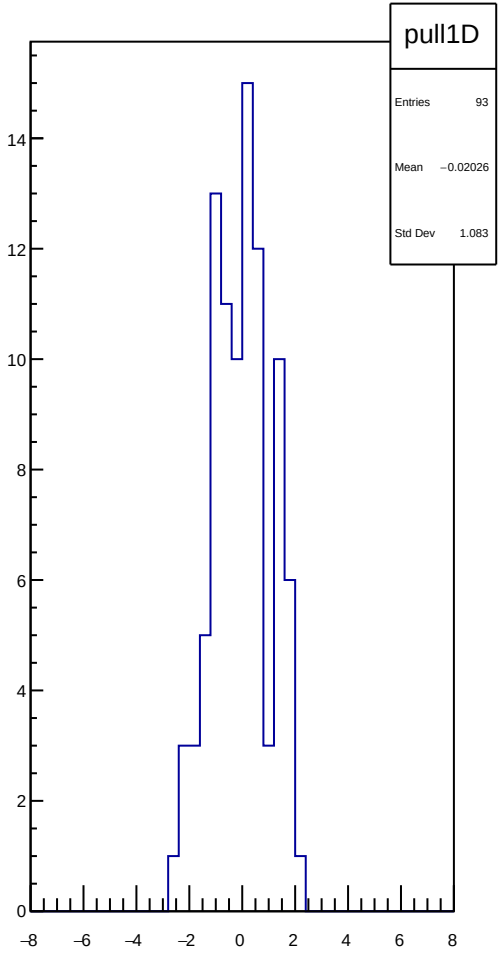

asym_sam2_dit_correction_rms vs run
χ² / ndf 5187 / 92
p0 4214 ± 3.117
4800
4600
4400
4200
4000
3800

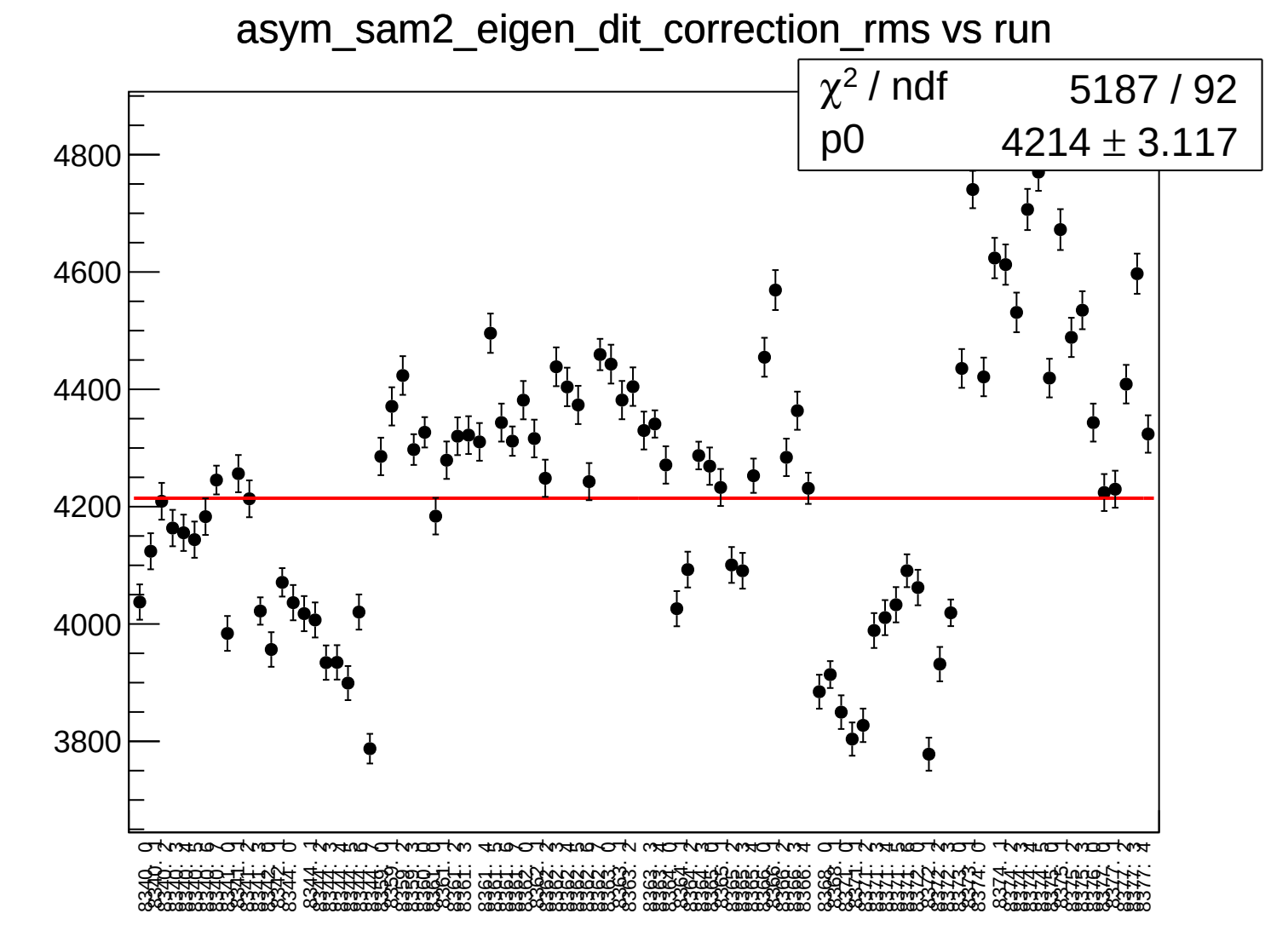

eigen_dit_asym_sam2_mean vs run
χ² / ndf 89.43 / 92
p0 359.6 ± 310.8
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 36.05
Std Dev 76.15
3
2
1
0
−1
−2

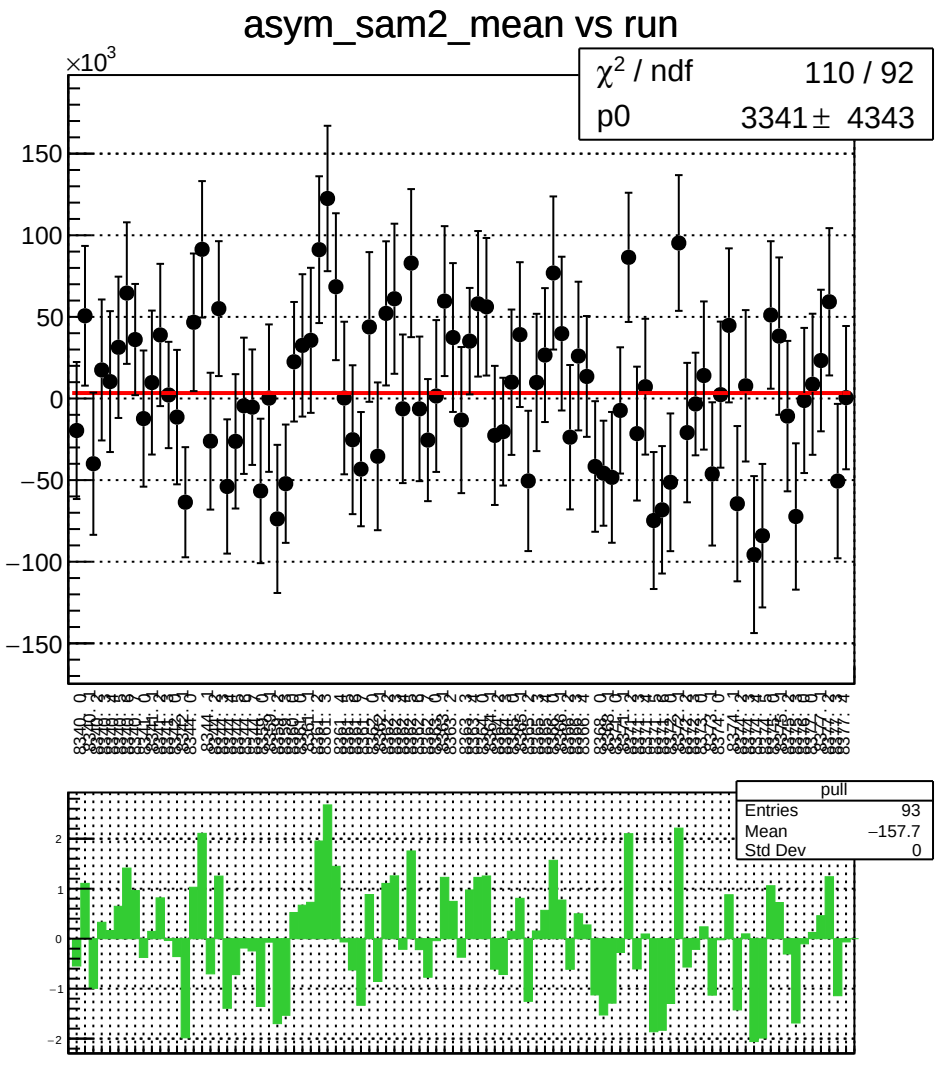

pull1D
Entries 93
Mean −0.01284
Std Dev 0.9805
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

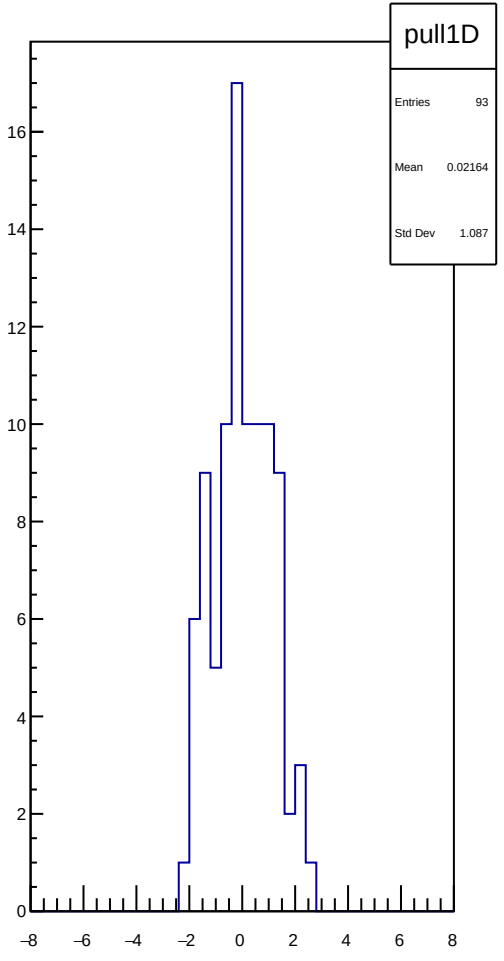

eigen_dit_asym_sam2_rms vs run
χ² / ndf 9348 / 92
p0 296.8 ± 0.2198
500
450
400
350
300
250

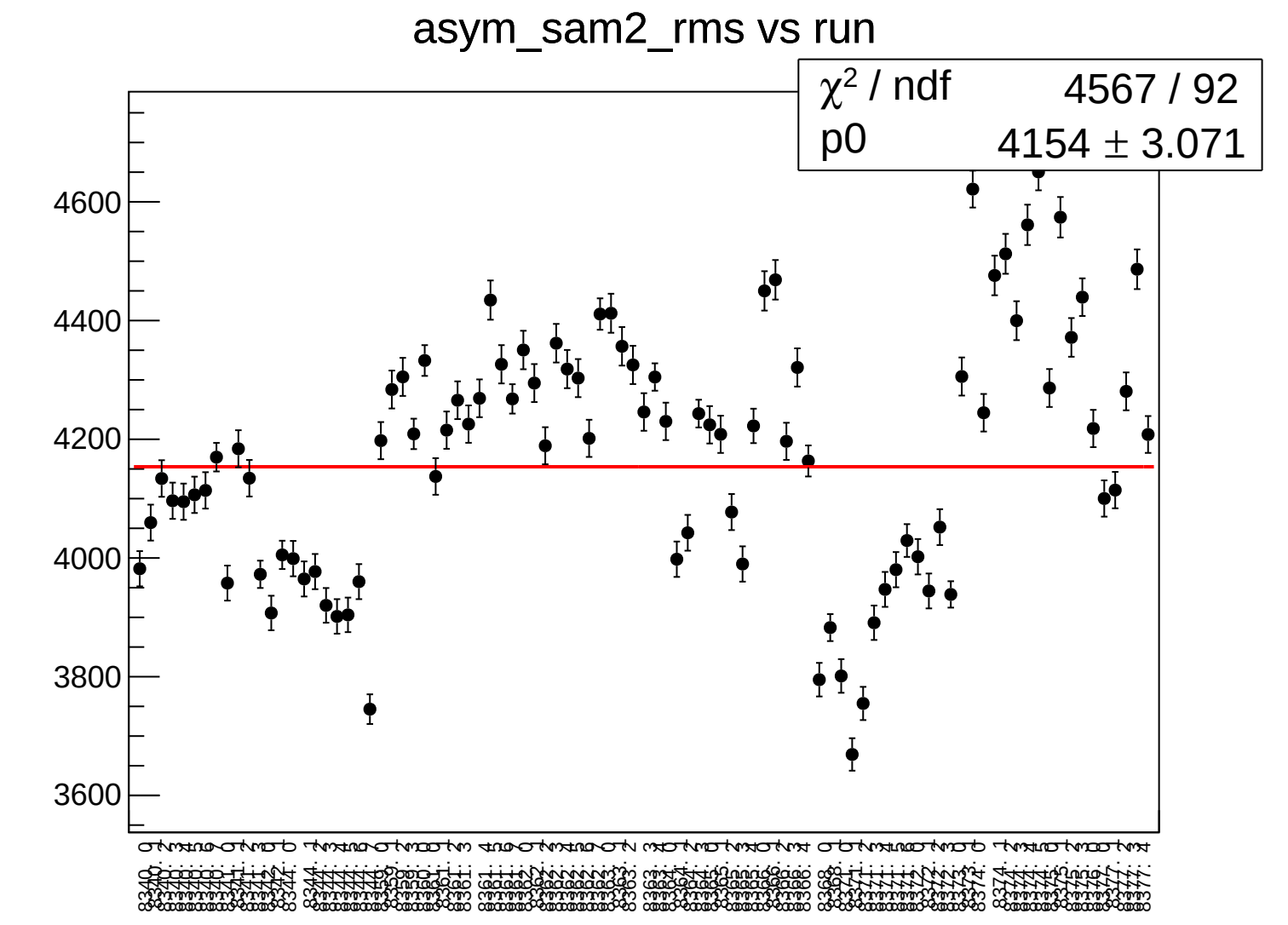

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109 / 92
p0 −3152 ± 4408
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −167.6
Std Dev 0
2
1
0
−1
−2

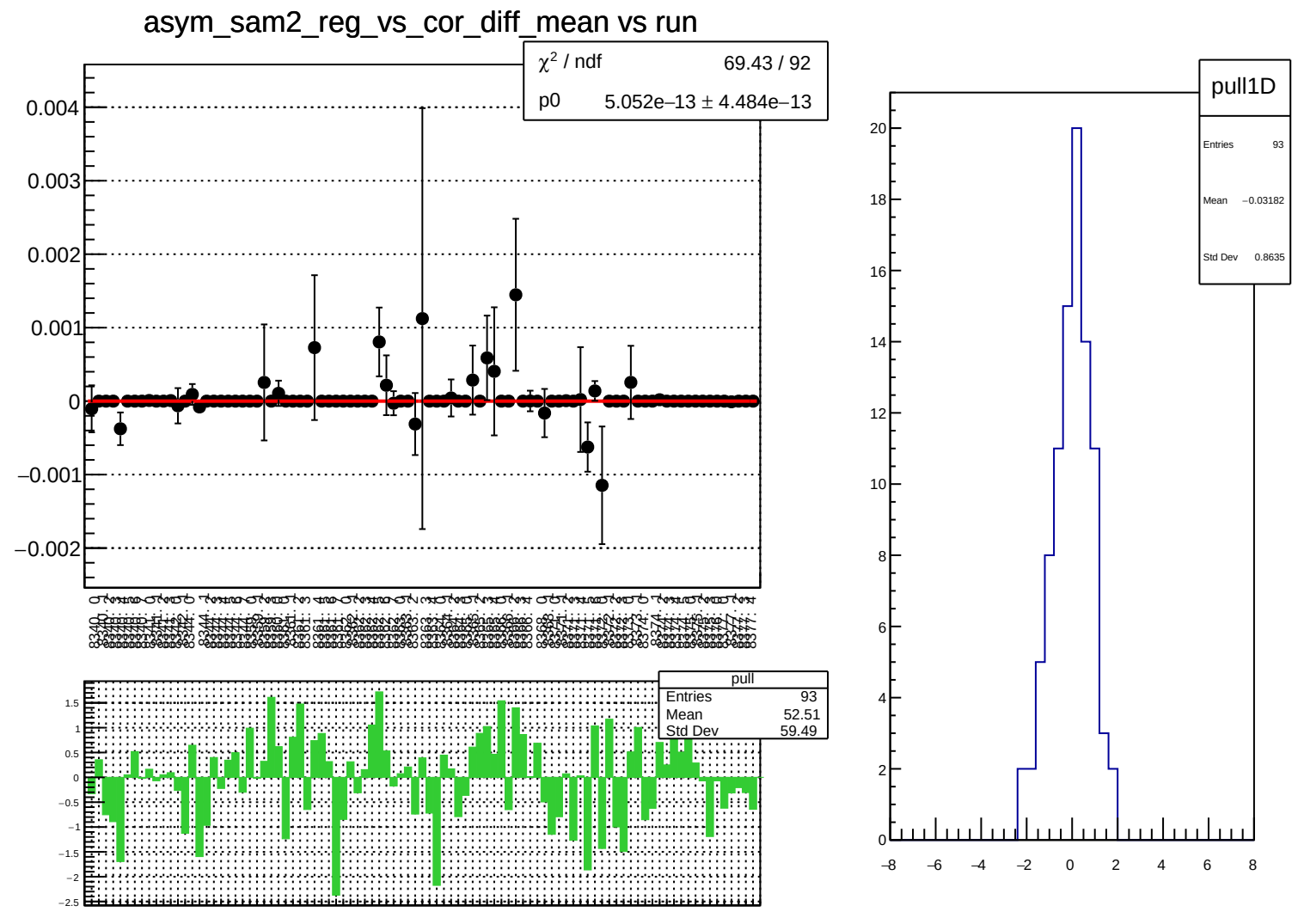

pull1D
Entries 93
Mean −0.02026
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

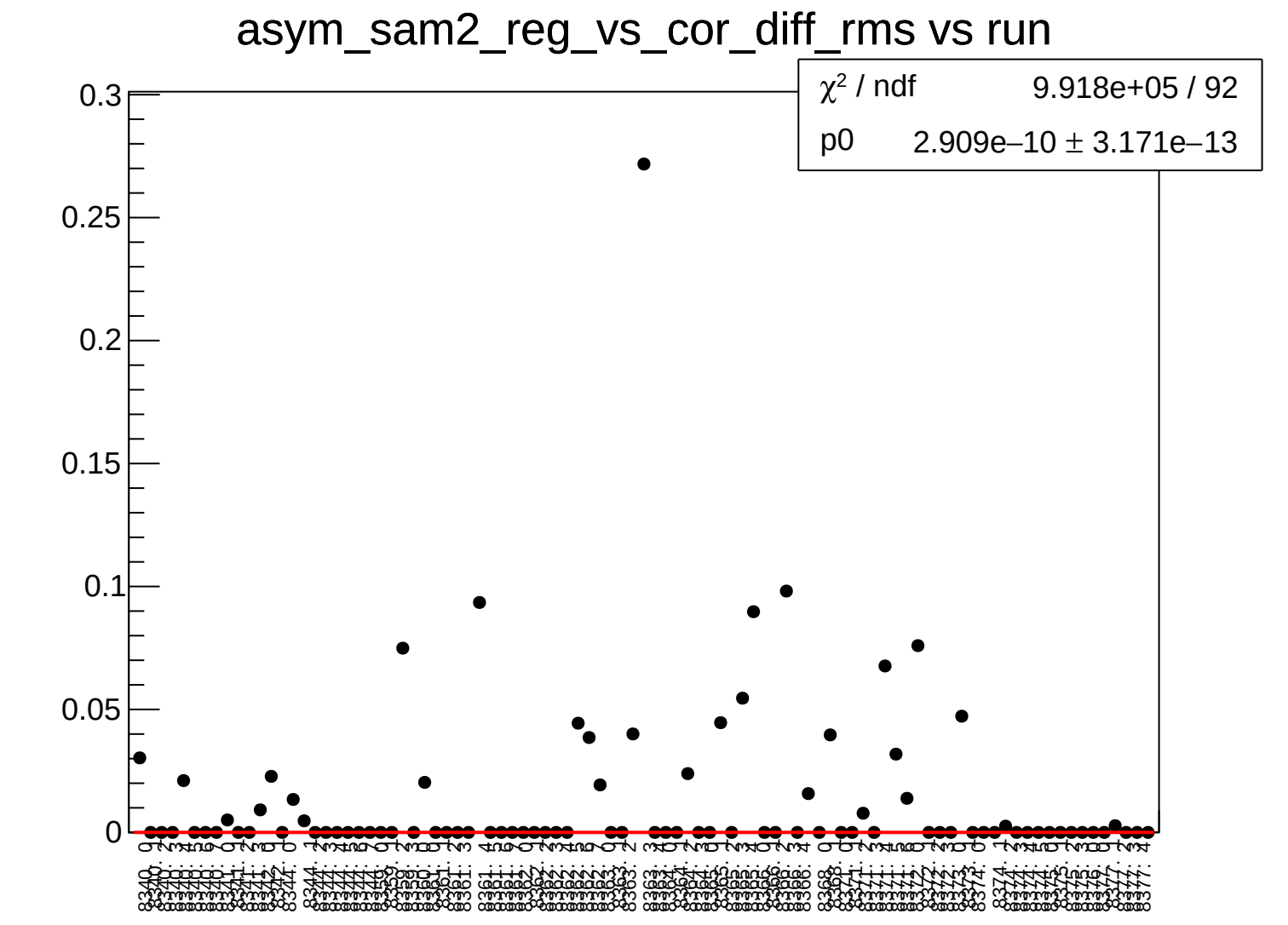

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 5187 / 92
p0 4214 ± 3.117
4800
4600
4400
4200
4000
3800

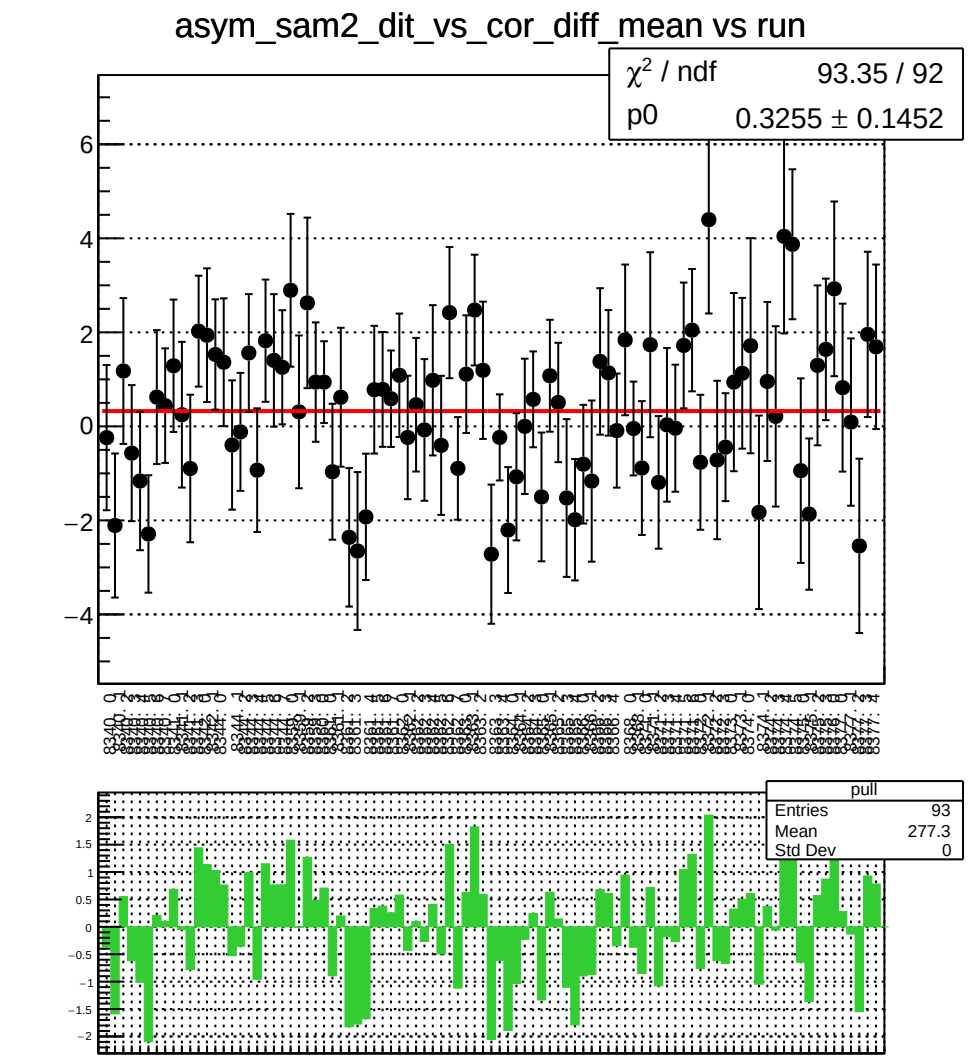

asym_sam2_mean vs run
×10^3
χ^2 / ndf 110 / 92
p0 3341 ± 4343
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −157.7
Std Dev 0
2
1
0
−1
−2

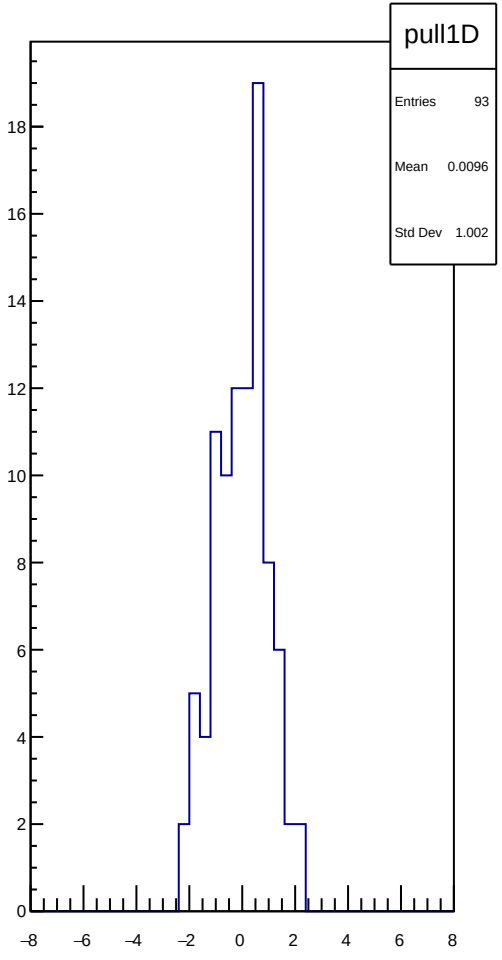

pull1D
Entries 93
Mean 0.02164
Std Dev 1.087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

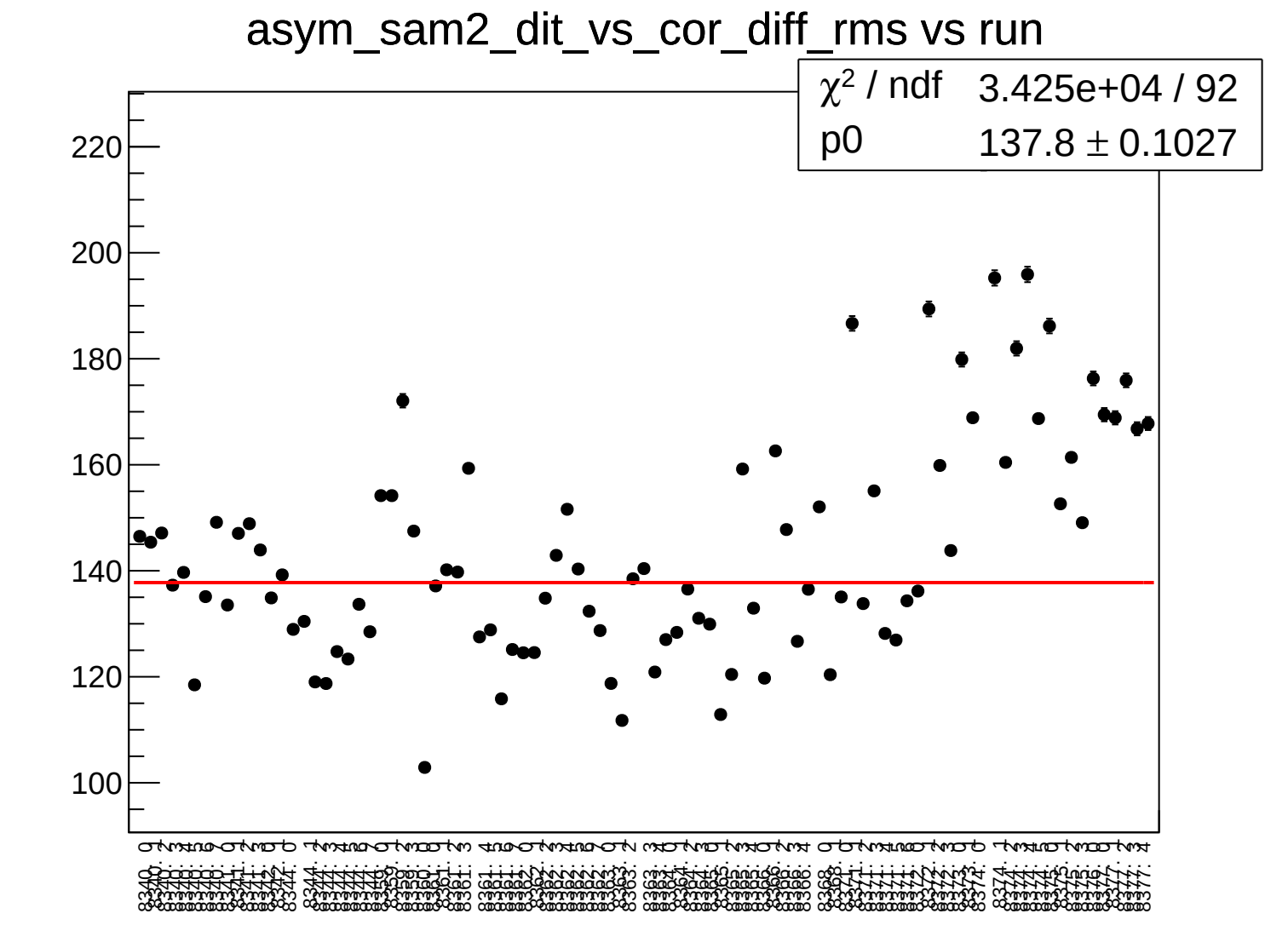

asym_sam2_rms vs run
χ² / ndf 4567 / 92
p0 4154 ± 3.071
4600
4400
4200
4000
3800
3600

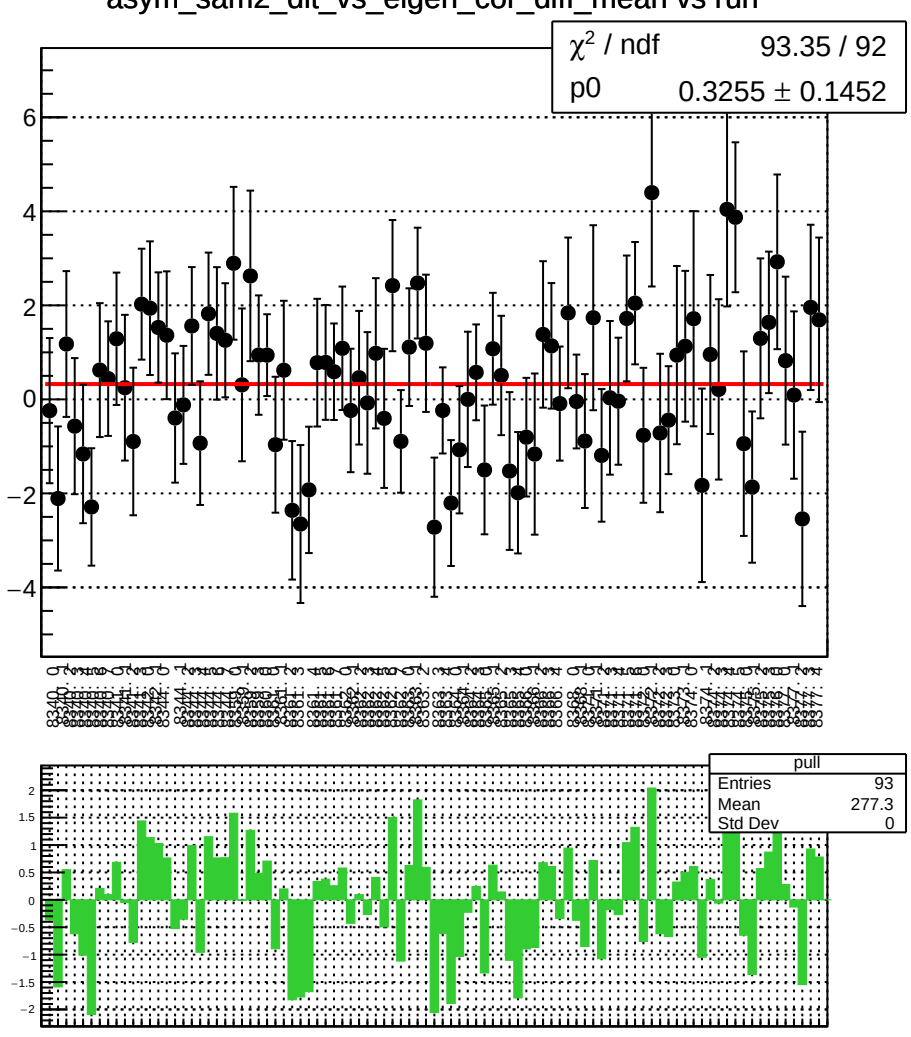

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 69.43 / 92
p0 5.052e−13 ± 4.484e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 93
Mean 52.51
Std Dev 59.49
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.03182
Std Dev 0.8635
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

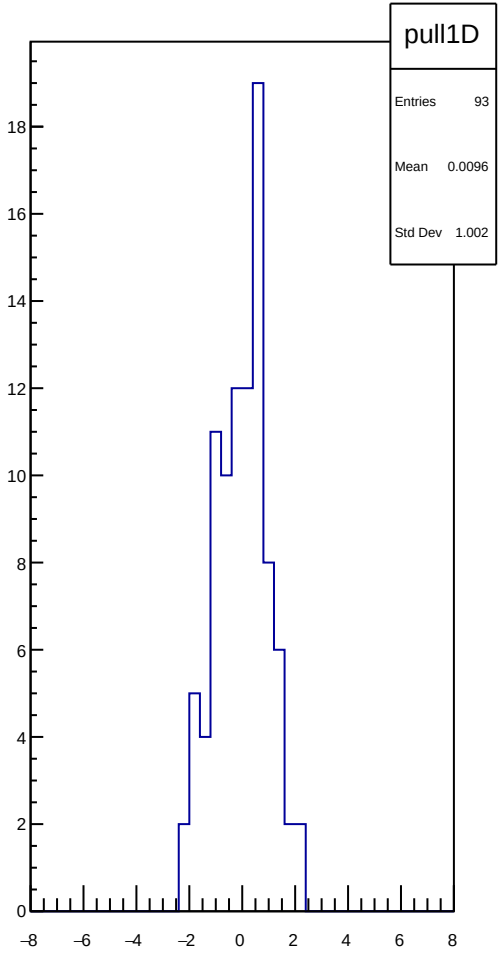

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.918e+05 / 92
p0 2.909e−10 ± 3.171e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

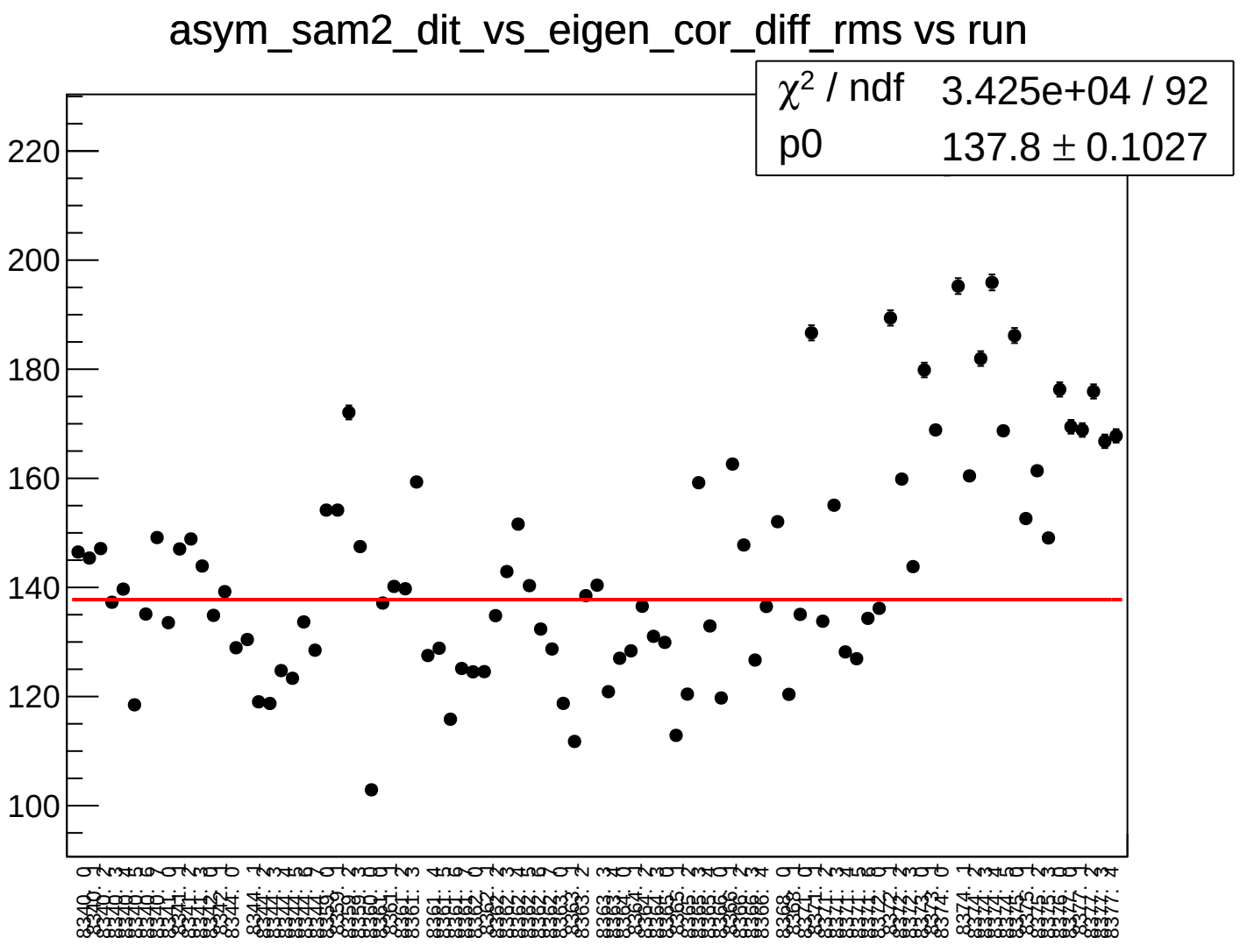

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 92
p0 0.3255 ± 0.1452
pull
Entries 93
Mean 277.3
Std Dev 0

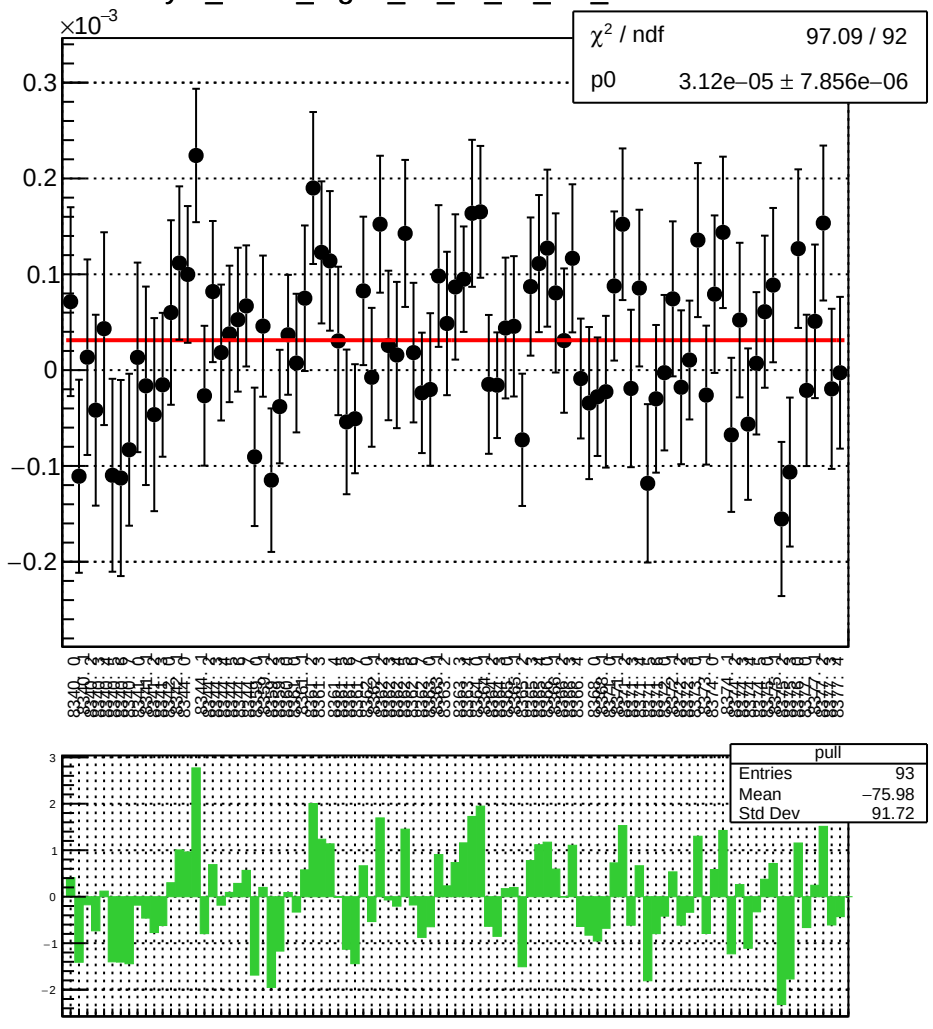

pull1D
Entries 93
Mean 0.0096
Std Dev 1.002

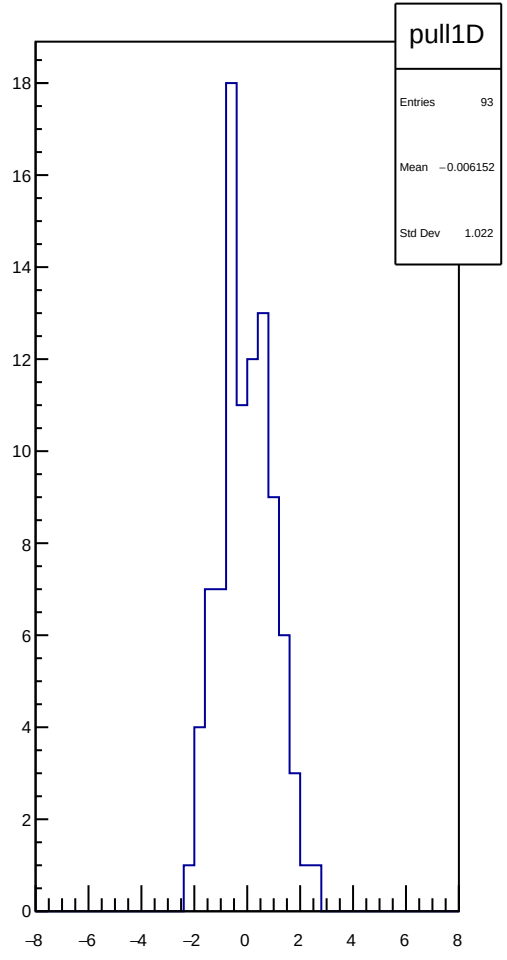

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 3.425e+04 / 92
p0 137.8 ± 0.1027
220
200
180
160
140
120
100

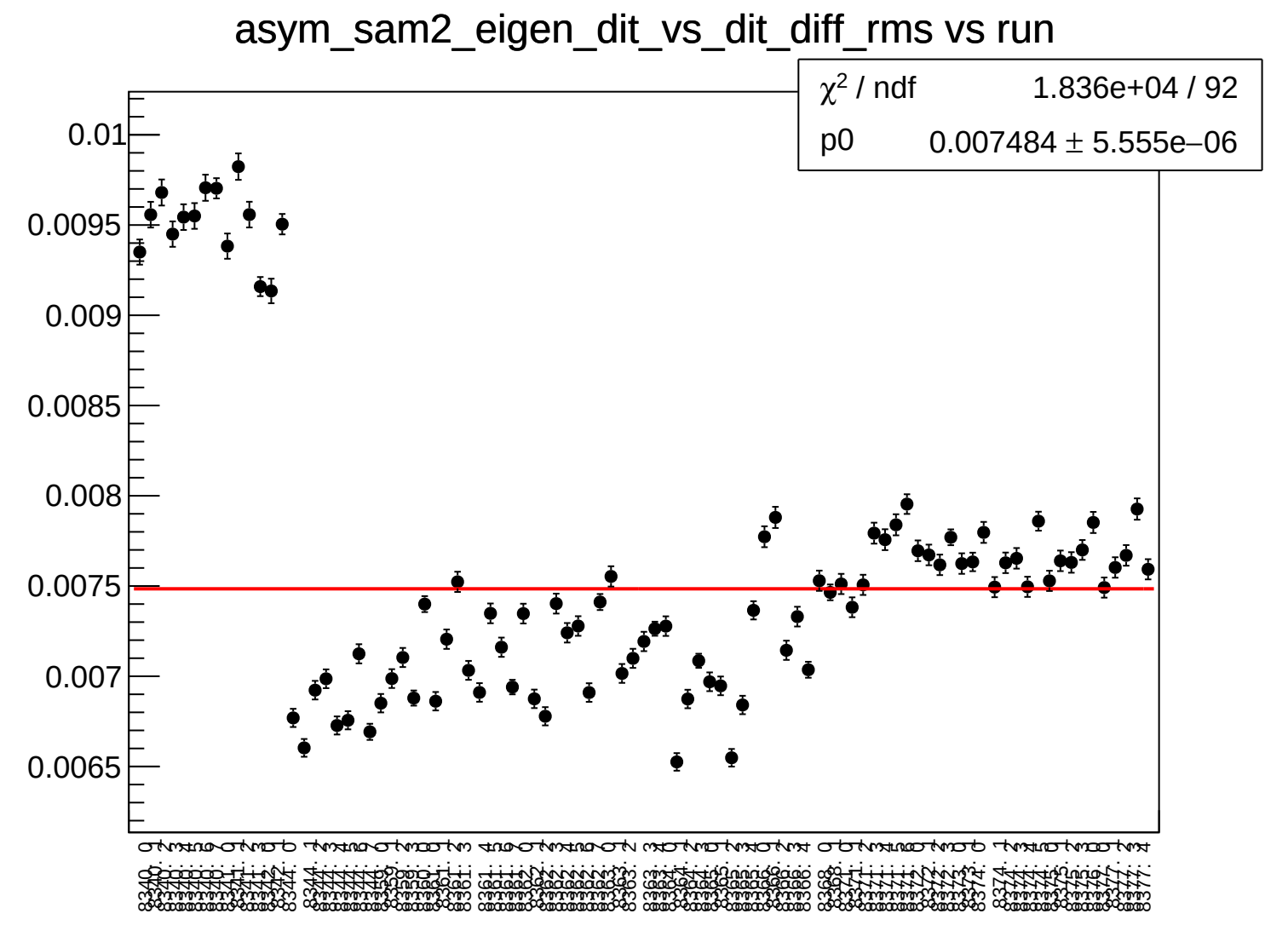

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 92
p0 0.3255 ± 0.1452
pull
Entries 93
Mean 277.3
Std Dev 0

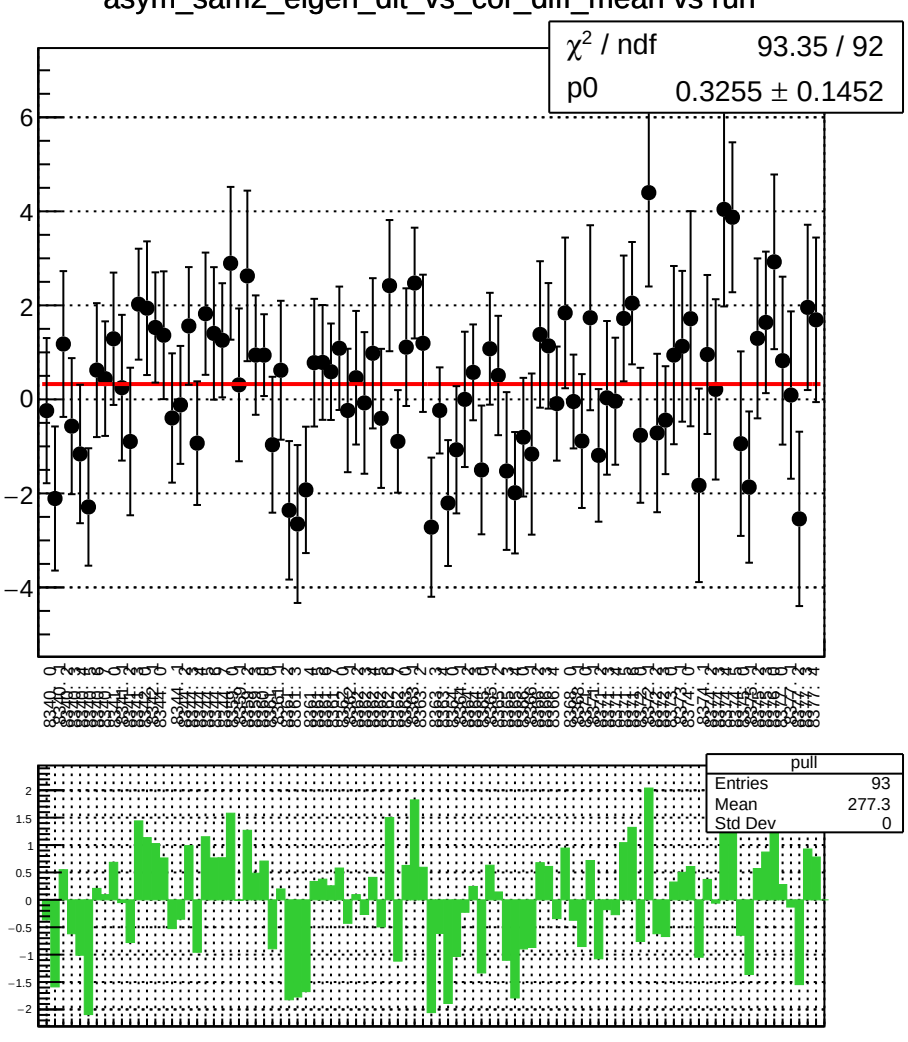

pull1D
Entries 93
Mean 0.0096
Std Dev 1.002

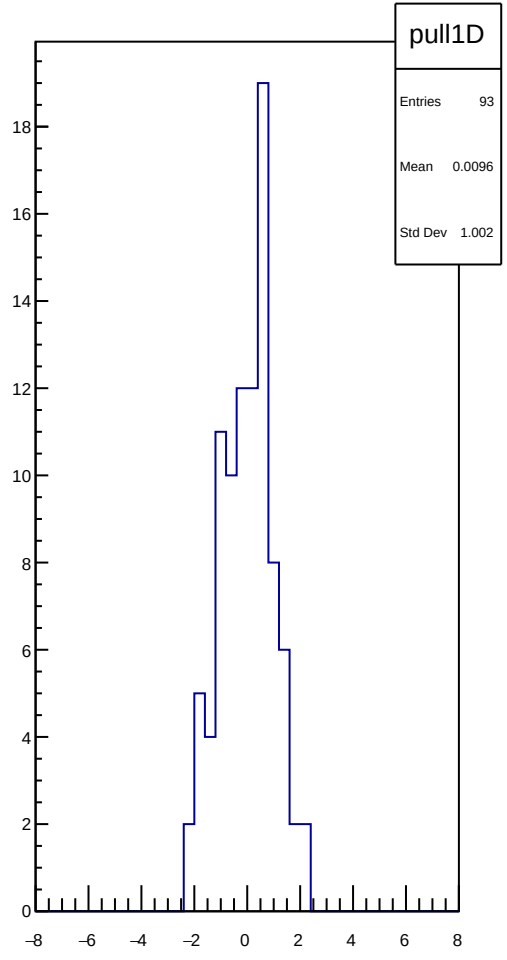

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.425e+04 / 92
p0 137.8 ± 0.1027
220
200
180
160
140
120
100

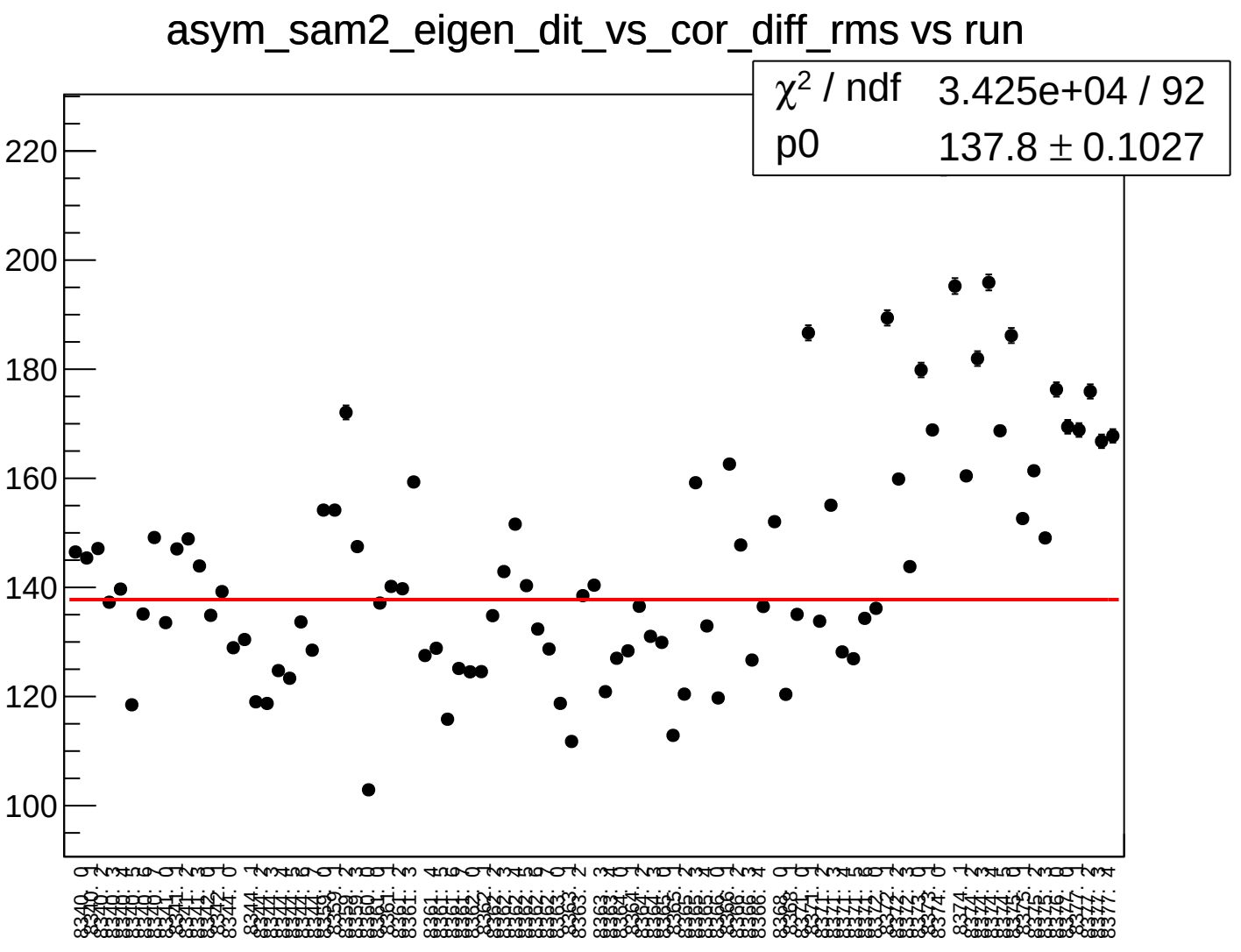

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.09 / 92
p0 3.12e−05 ± 7.856e−06
pull
Entries 93
Mean −75.98
Std Dev 91.72

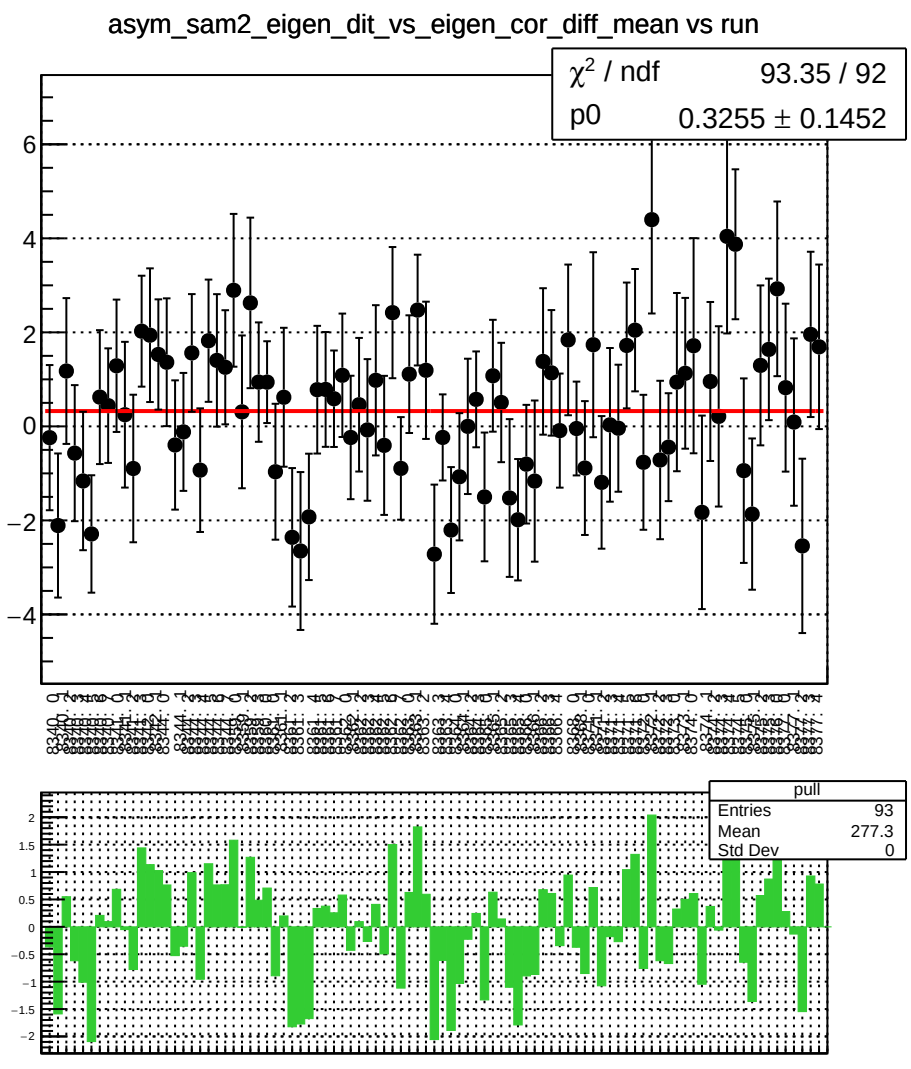

pull1D
Entries 93
Mean −0.006152
Std Dev 1.022

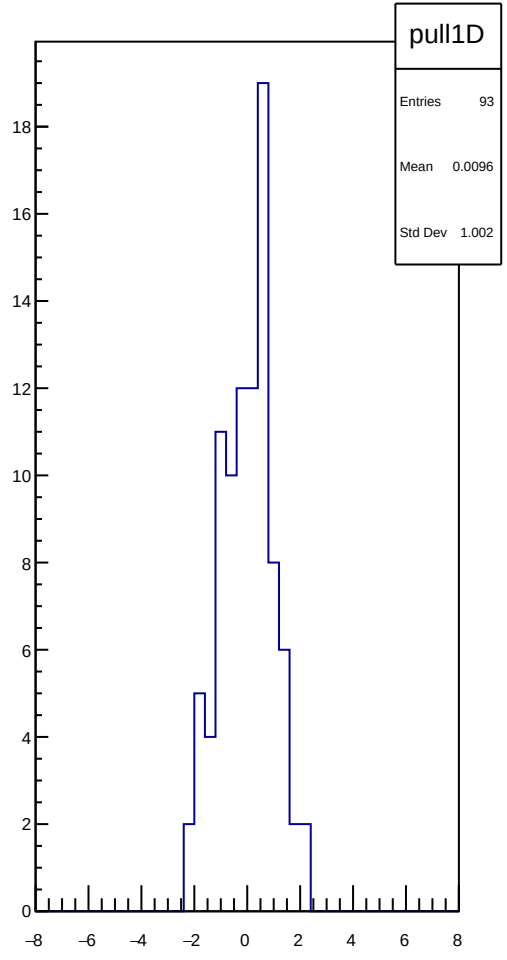

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.836e+04 / 92
p0 0.007484 ± 5.555e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

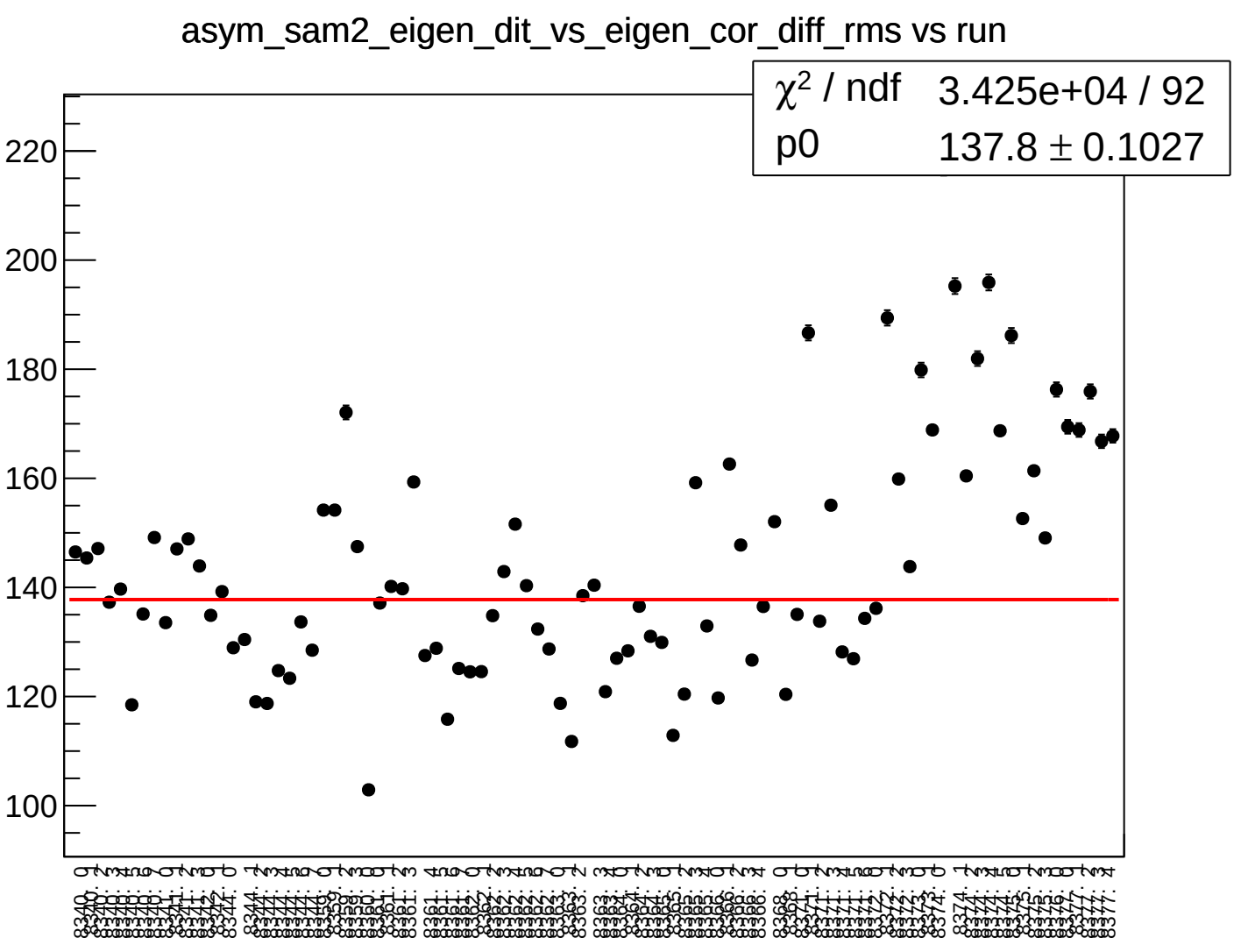

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.35 / 92
p0 0.3255 ± 0.1452
pull
Entries 93
Mean 277.3
Std Dev 0

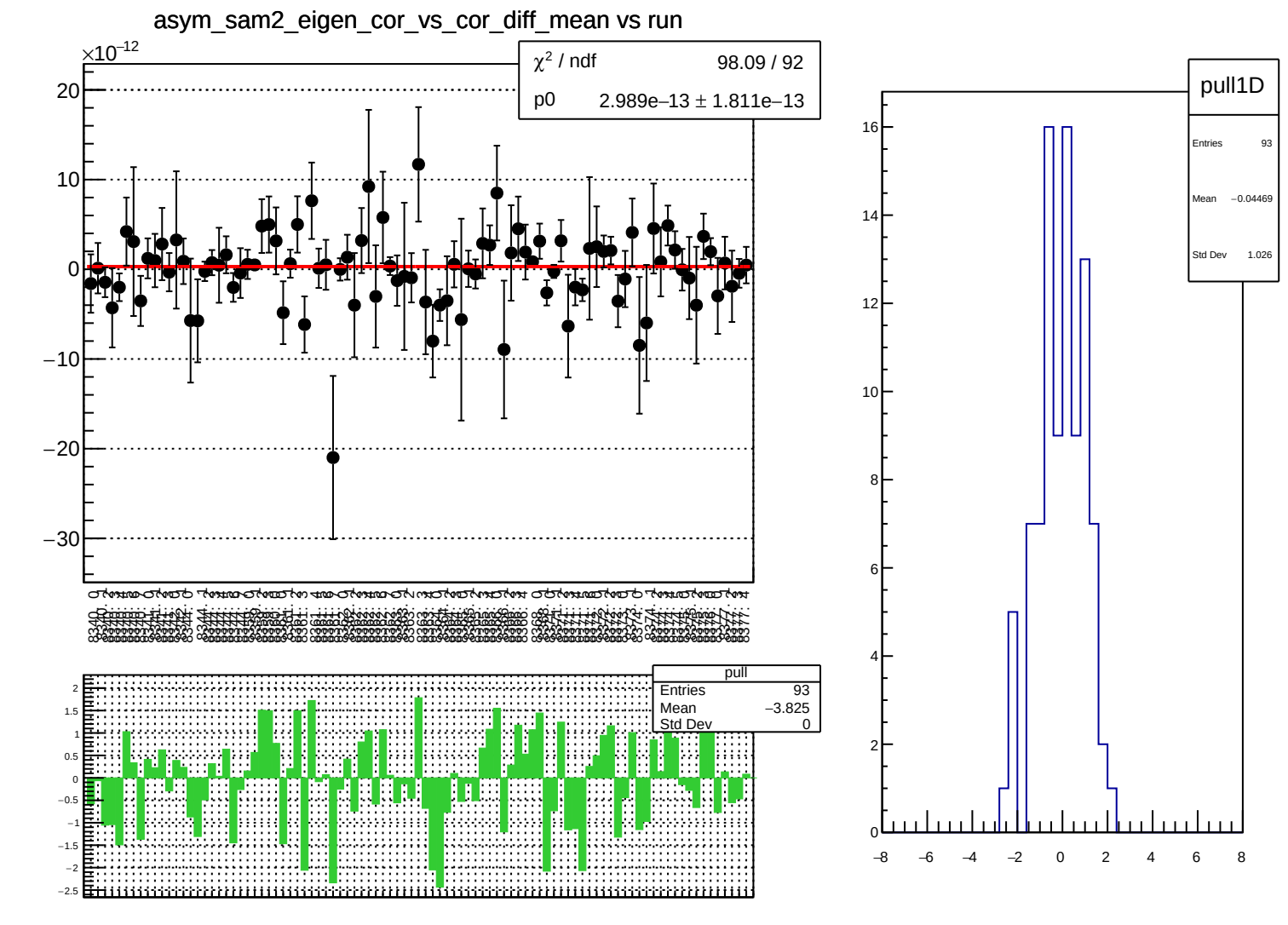

pull1D
Entries 93
Mean 0.0096
Std Dev 1.002

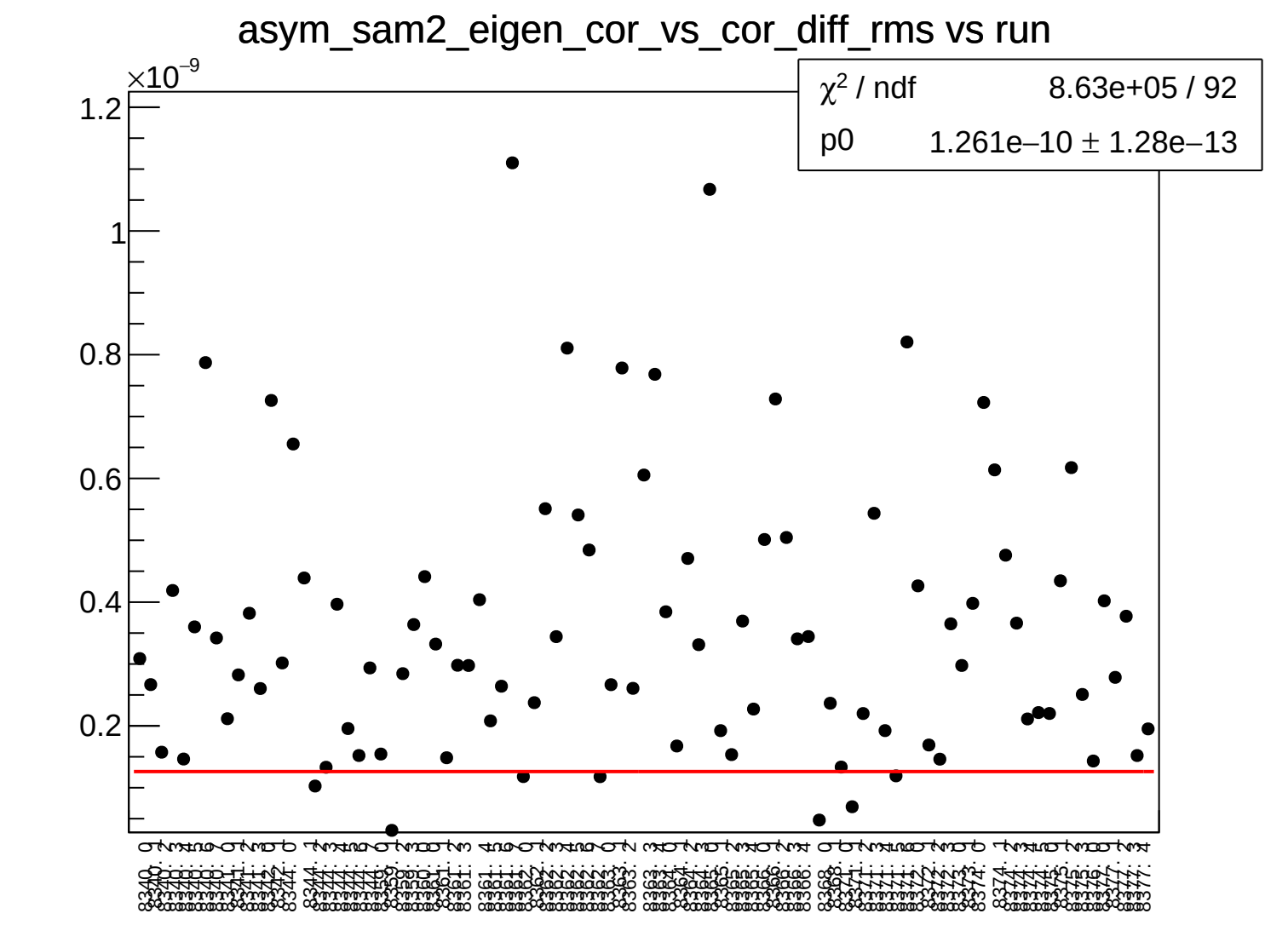

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.425e+04 / 92
p0 137.8 ± 0.1027
220
200
180
160
140
120
100

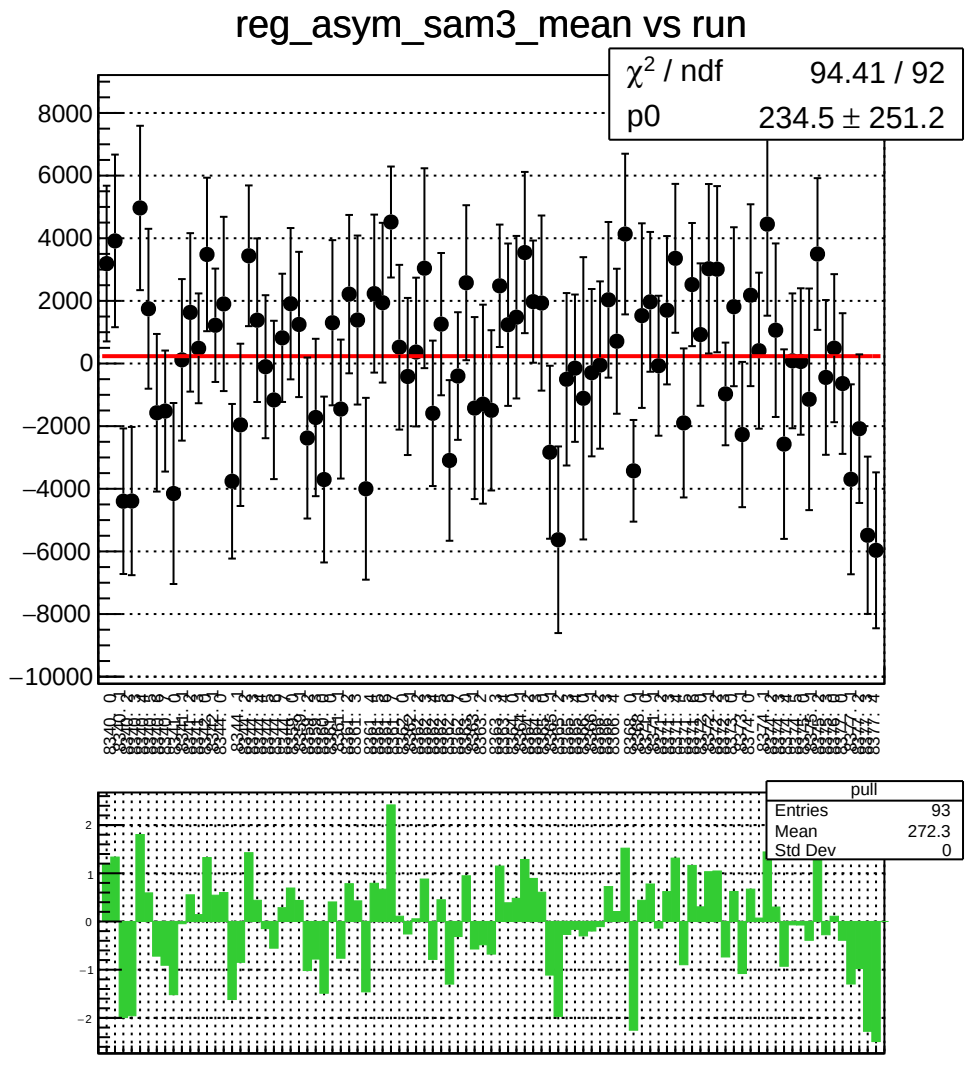

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.35 / 92
p0 0.3255 ± 0.1452
pull
Entries 93
Mean 277.3
Std Dev 0

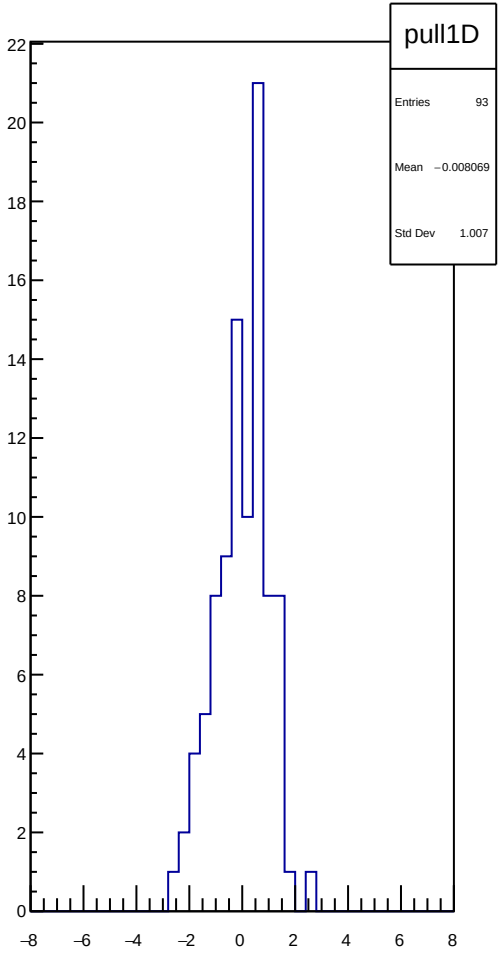

pull1D
Entries 93
Mean 0.0096
Std Dev 1.002

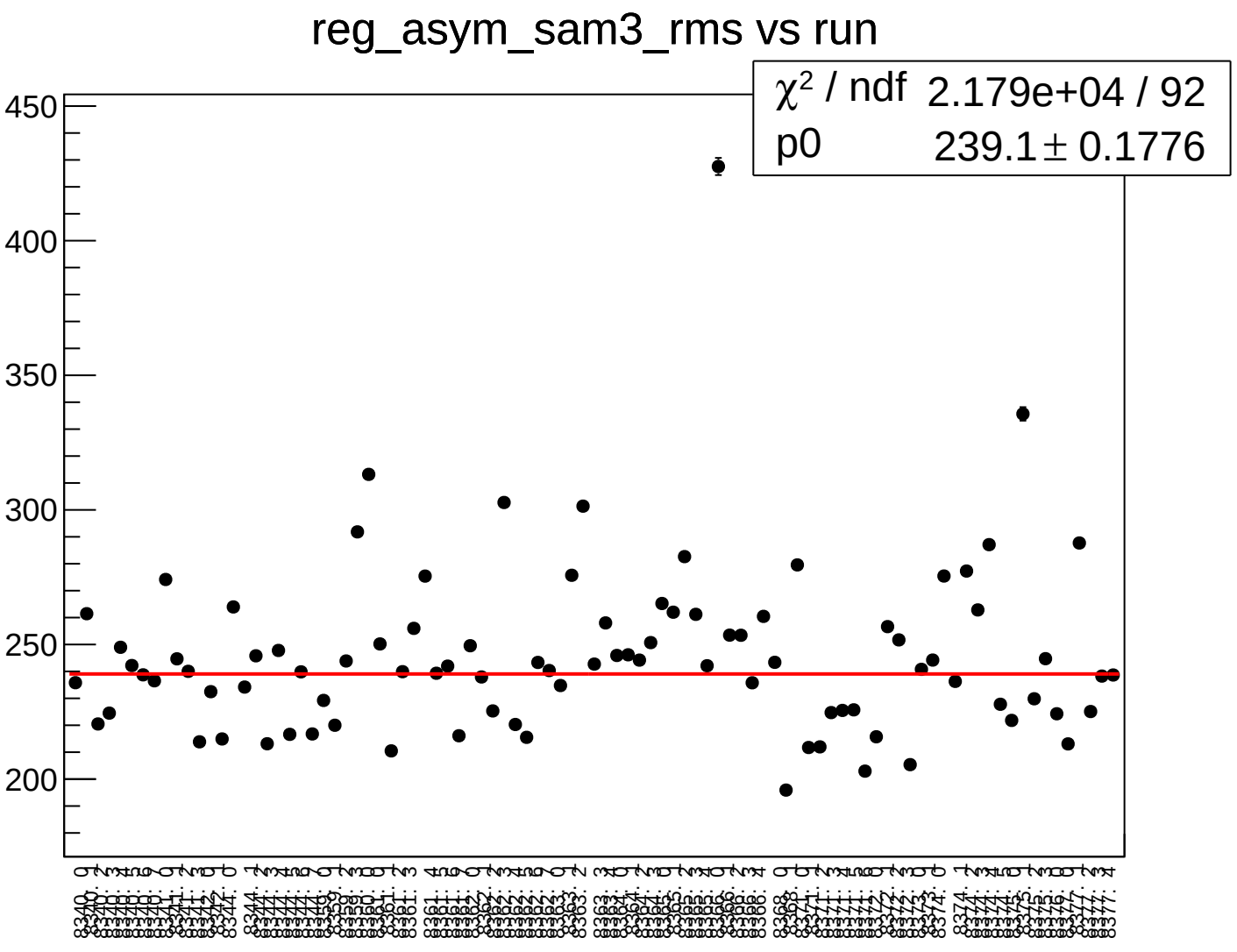

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.425e+04 / 92
p0 137.8 ± 0.1027
220
200
180
160
140
120
100

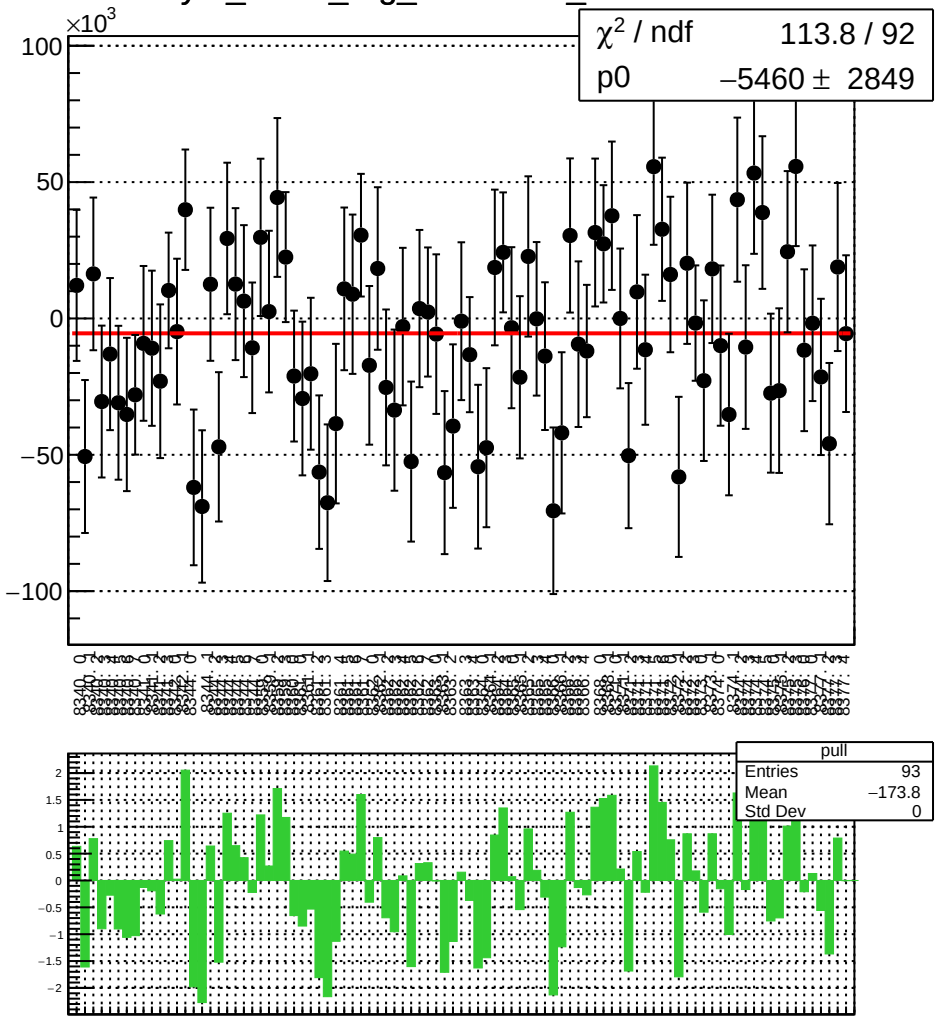

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.09 / 92
p0 2.989e−13 ± 1.811e−13
20
10
0
−10
−20
−30
pull
Entries 93
Mean −3.825
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.04469
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

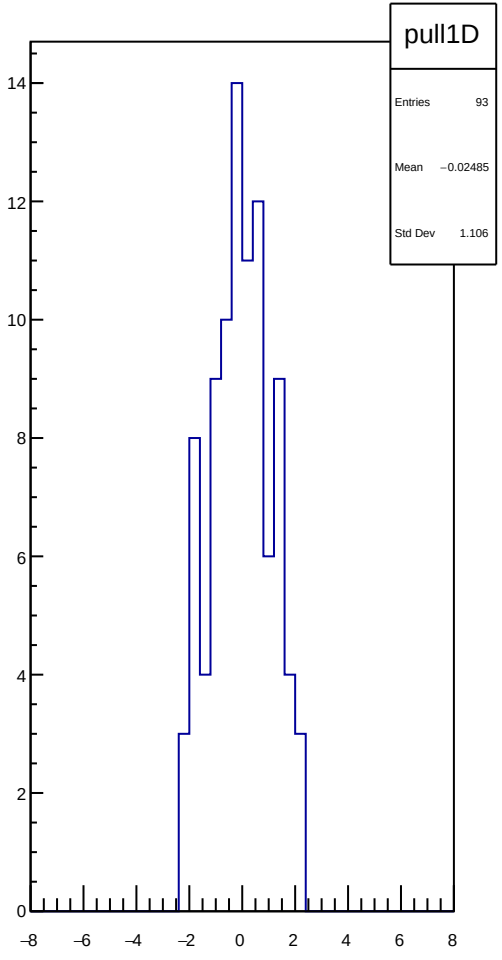

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.63e+05 / 92
p0 1.261e−10 ± 1.28e−13
1.2
1
0.8
0.6
0.4
0.2

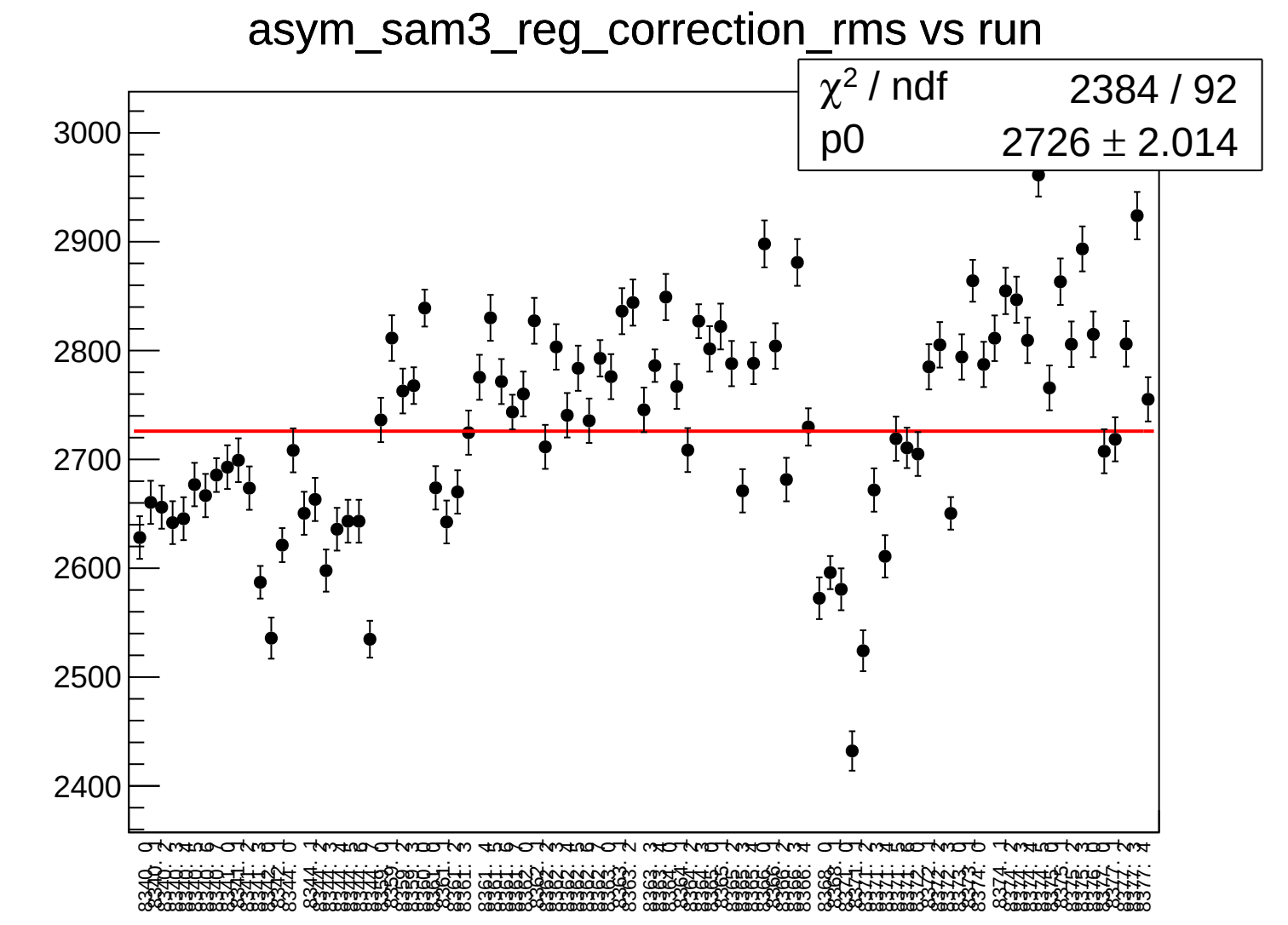

reg_asym_sam3_mean vs run
χ² / ndf 94.41 / 92
p0 234.5 ± 251.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 93
Mean 272.3
Std Dev 0
2
1
0
−1
−2

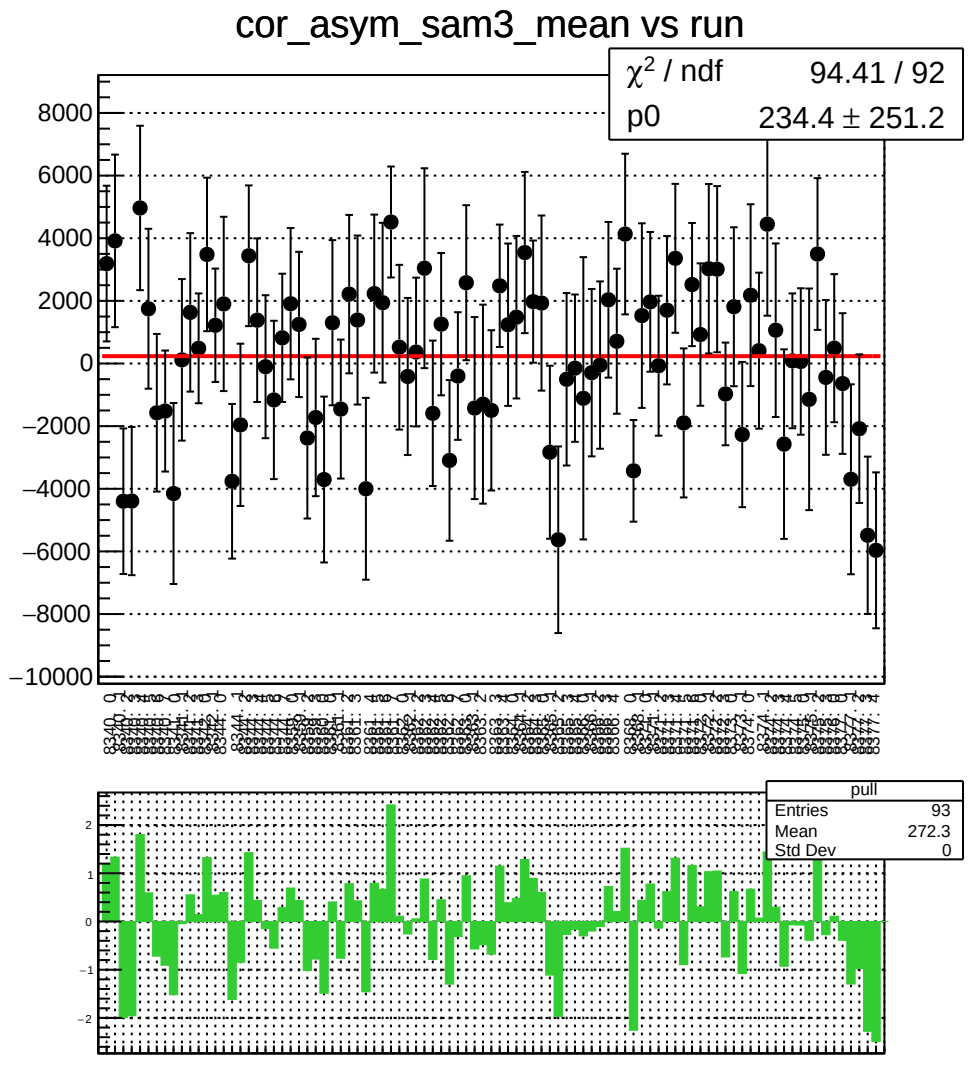

pull1D
Entries 93
Mean −0.008069
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

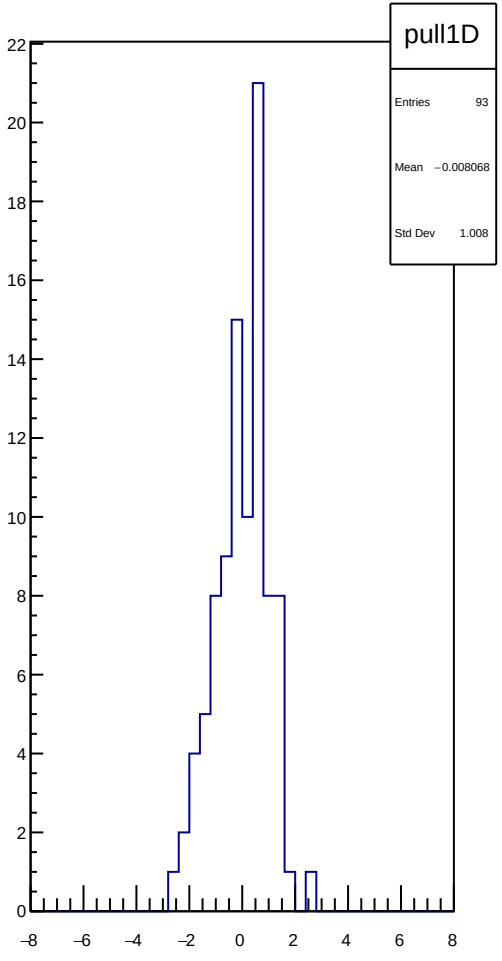

reg_asym_sam3_rms vs run
χ² / ndf 2.179e+04 / 92
p0 239.1 ± 0.1776
450
400
350
300
250
200

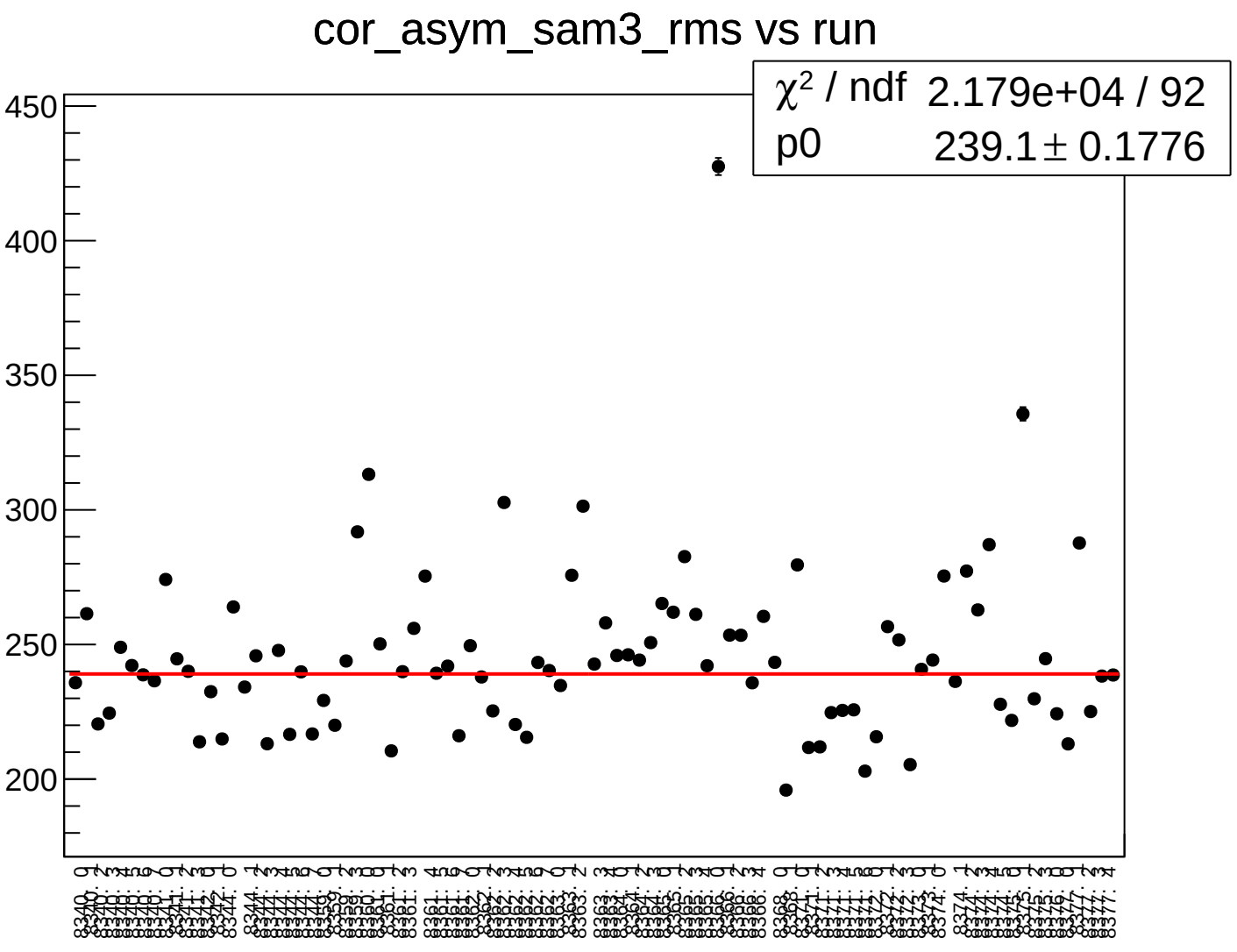

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 113.8 / 92
p0 −5460 ± 2849
100
50
0
−50
−100
pull
Entries 93
Mean −173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

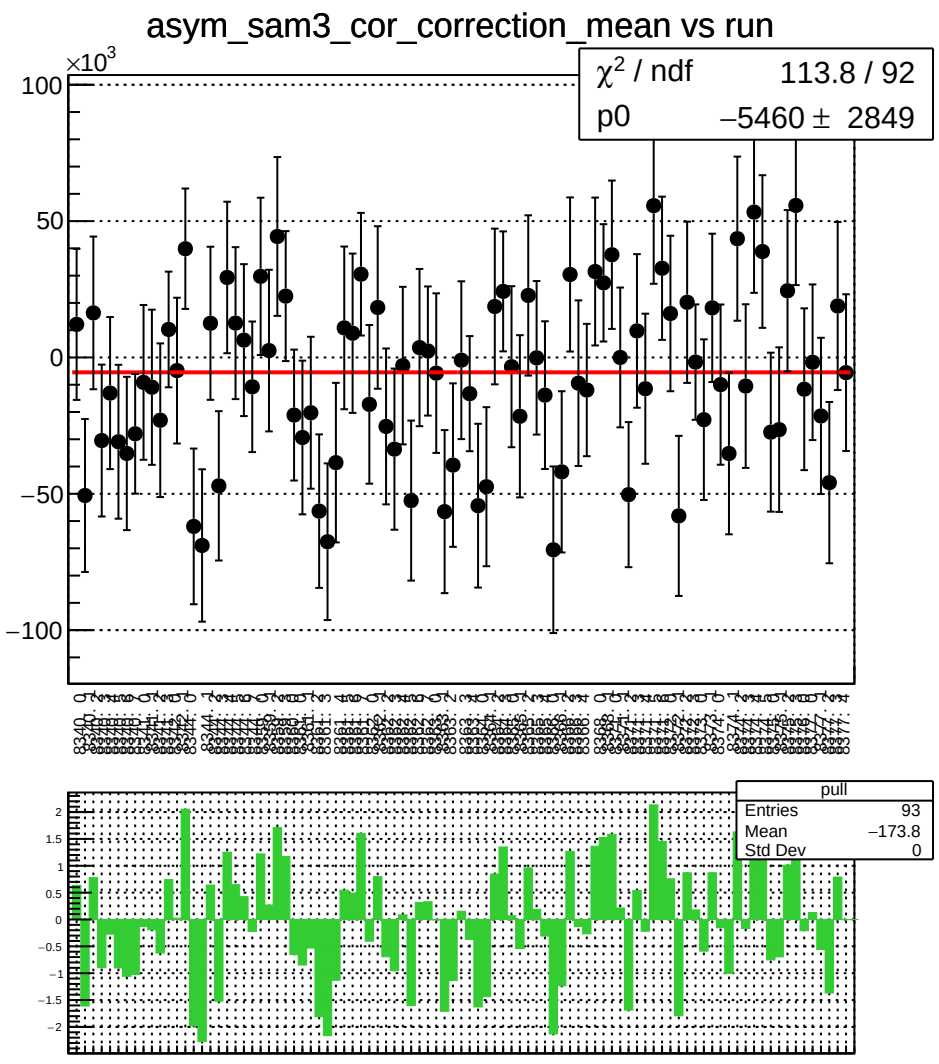

pull1D
Entries 93
Mean −0.02485
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

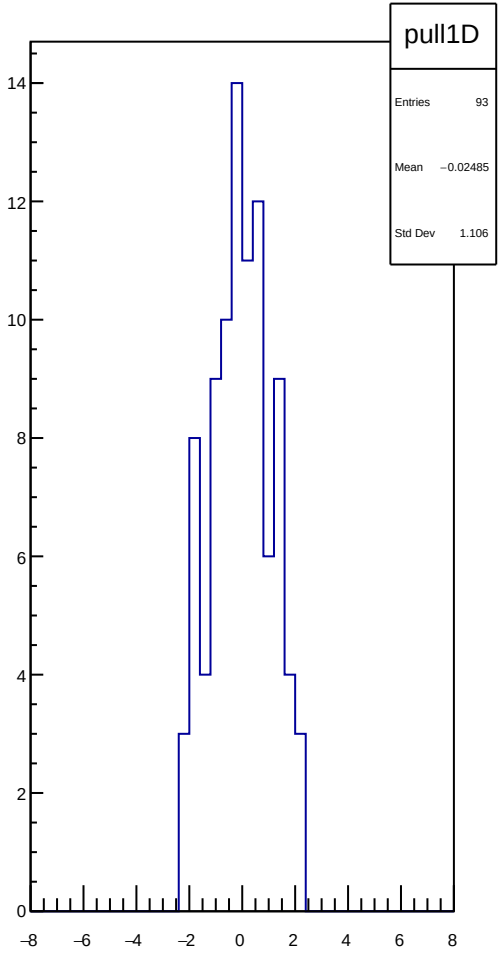

asym_sam3_reg_correction_rms vs run
χ² / ndf 2384 / 92
p0 2726 ± 2.014
3000
2900
2800
2700
2600
2500
2400

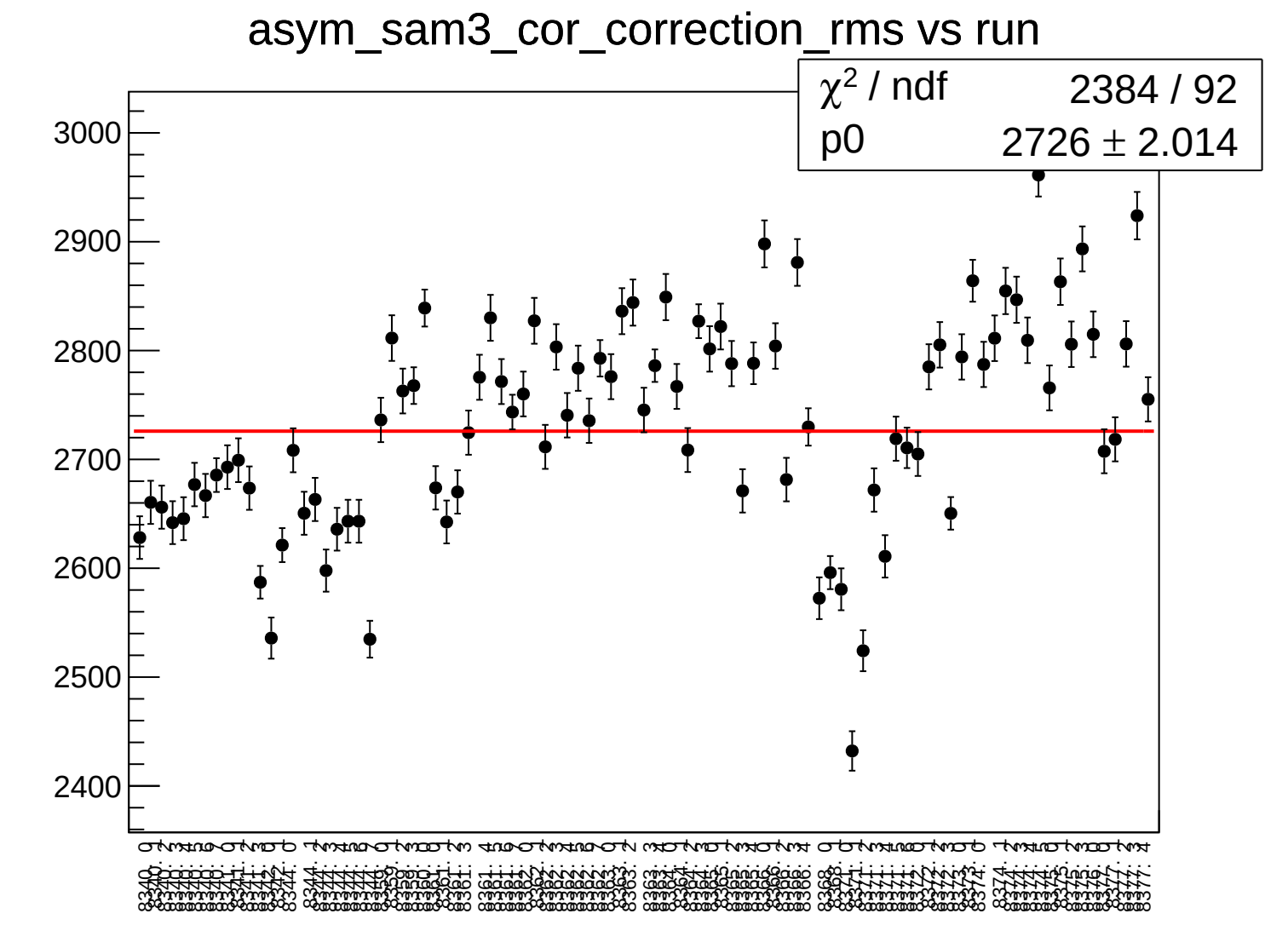

cor_asym_sam3_mean vs run
χ² / ndf 94.41 / 92
p0 234.4 ± 251.2
pull
Entries 93
Mean 272.3
Std Dev 0

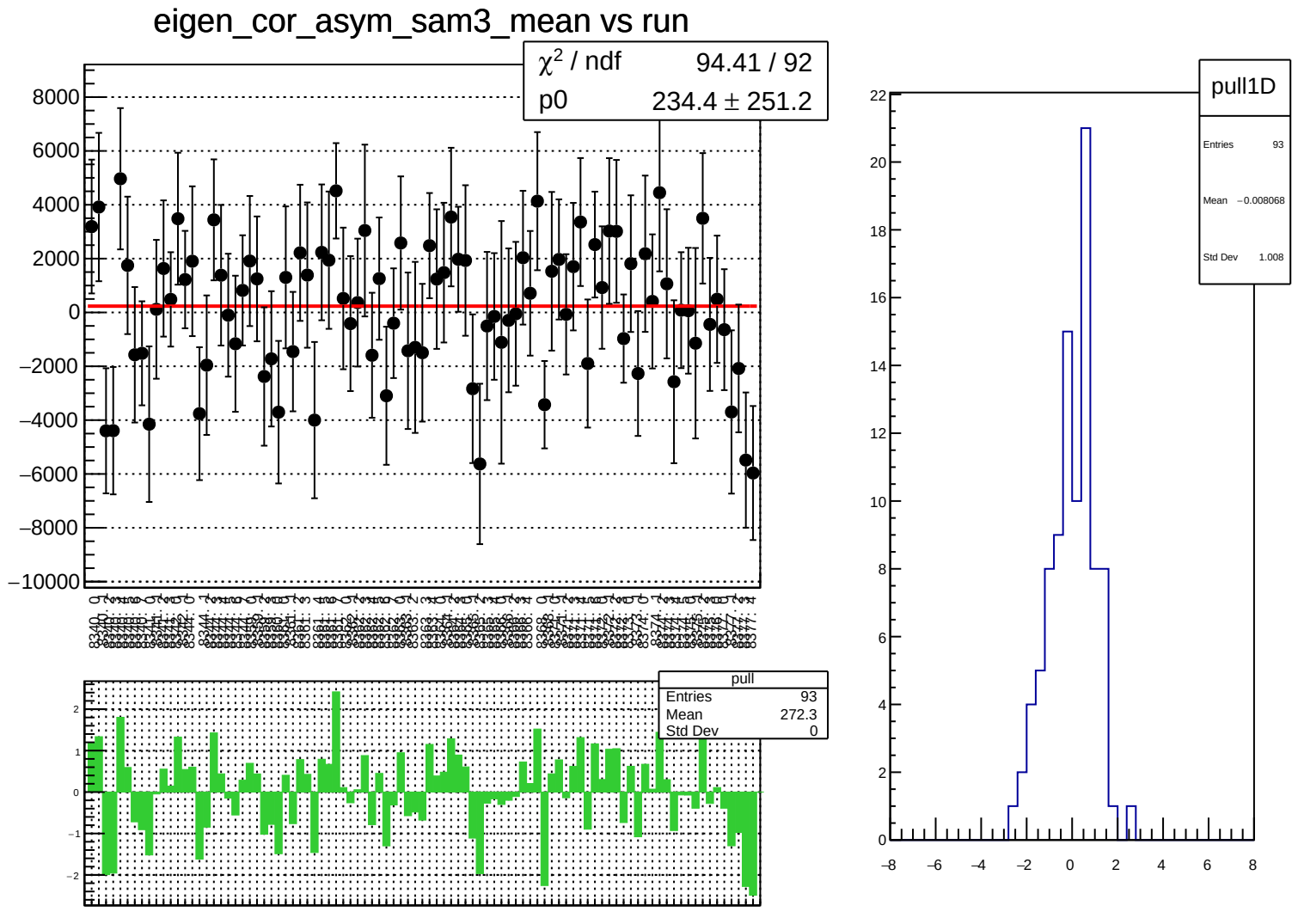

pull1D
Entries 93
Mean −0.008068
Std Dev 1.008

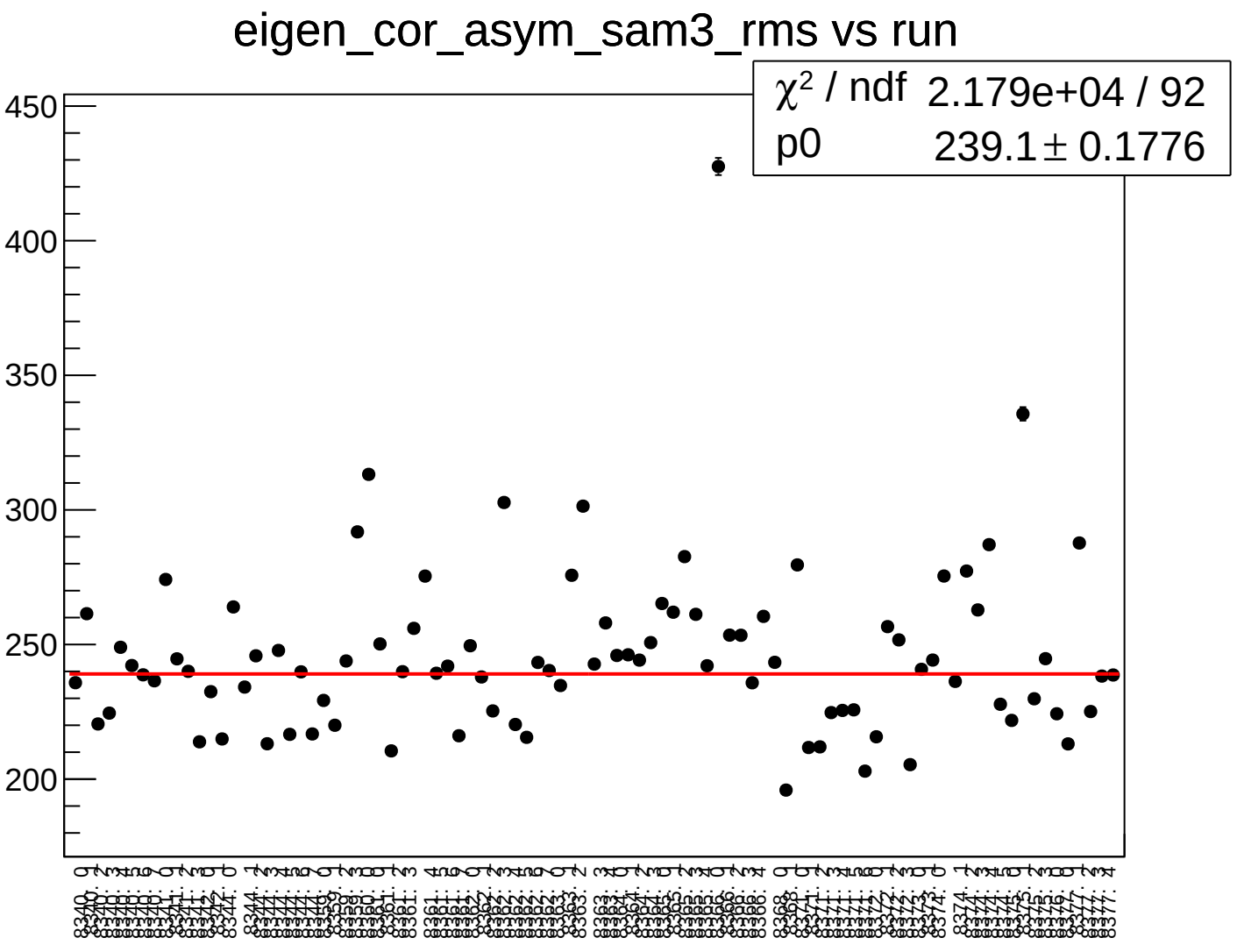

cor_asym_sam3_rms vs run
χ² / ndf 2.179e+04 / 92
p0 239.1 ± 0.1776
450
400
350
300
250
200

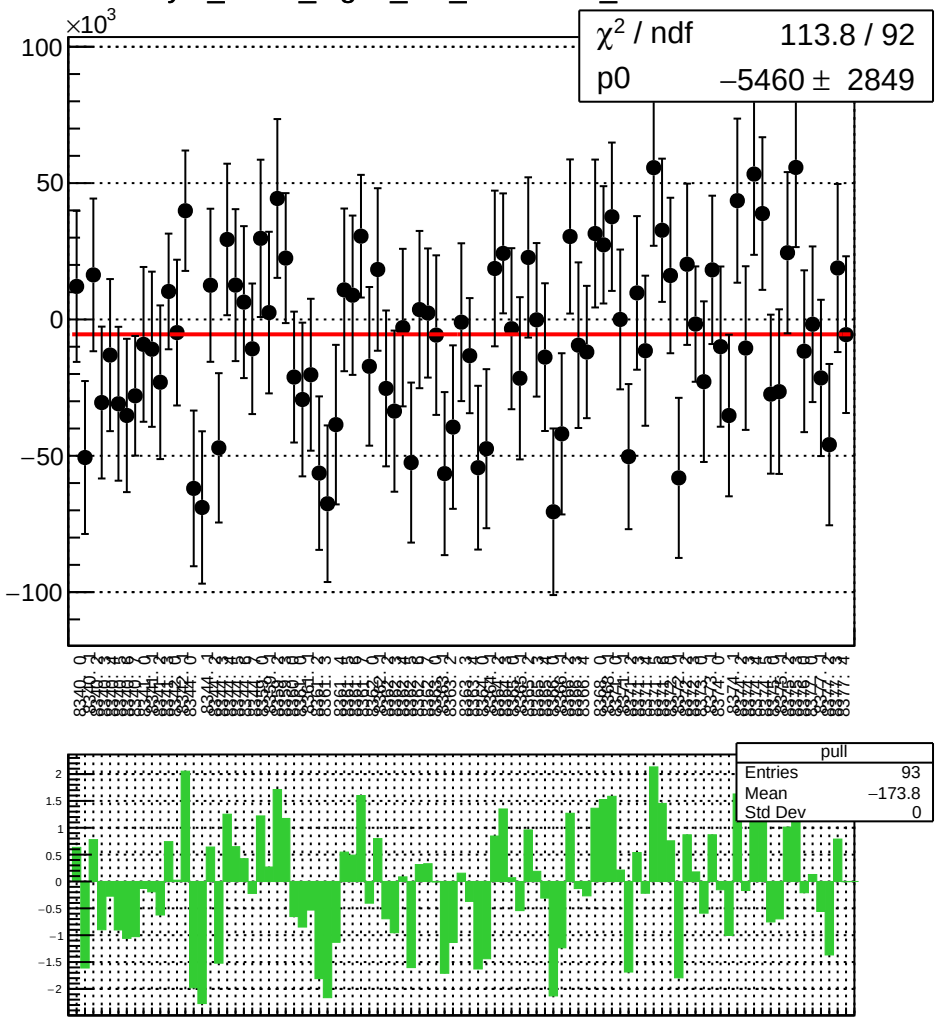

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 113.8 / 92
p0 −5460 ± 2849
100
50
0
−50
−100
pull
Entries 93
Mean −173.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

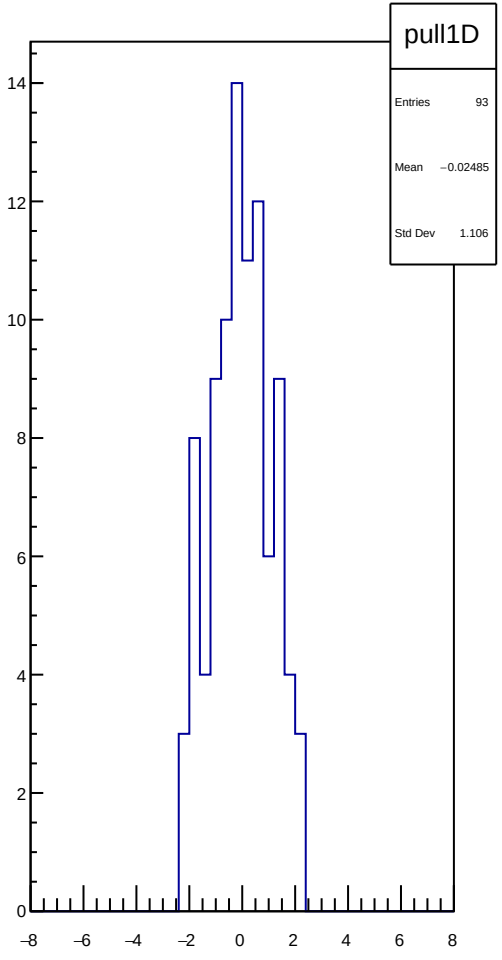

pull1D
Entries 93
Mean −0.02485
Std Dev 1.106
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

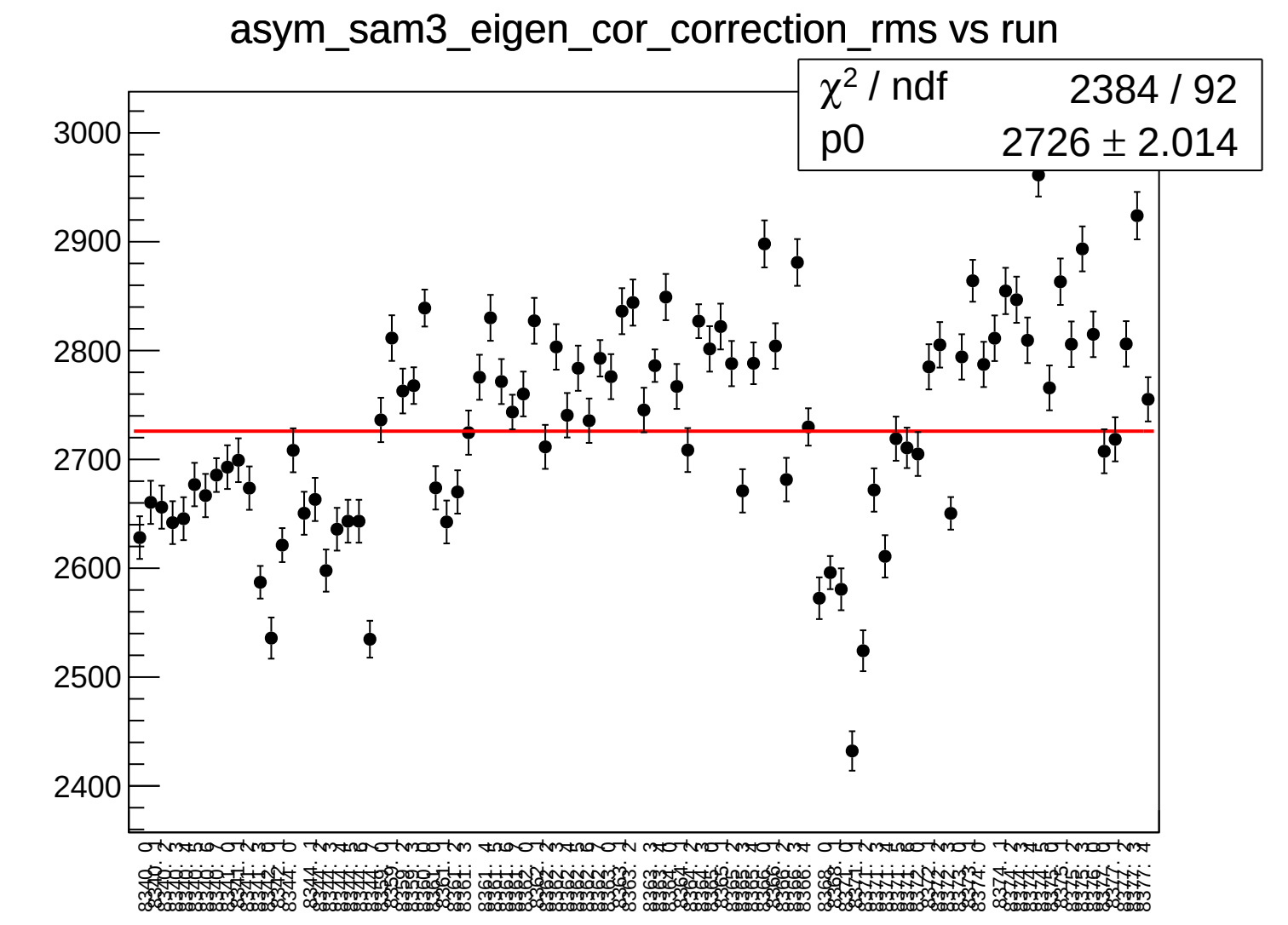

asym_sam3_cor_correction_rms vs run
χ² / ndf 2384 / 92
p0 2726 ± 2.014
3000
2900
2800
2700
2600
2500
2400

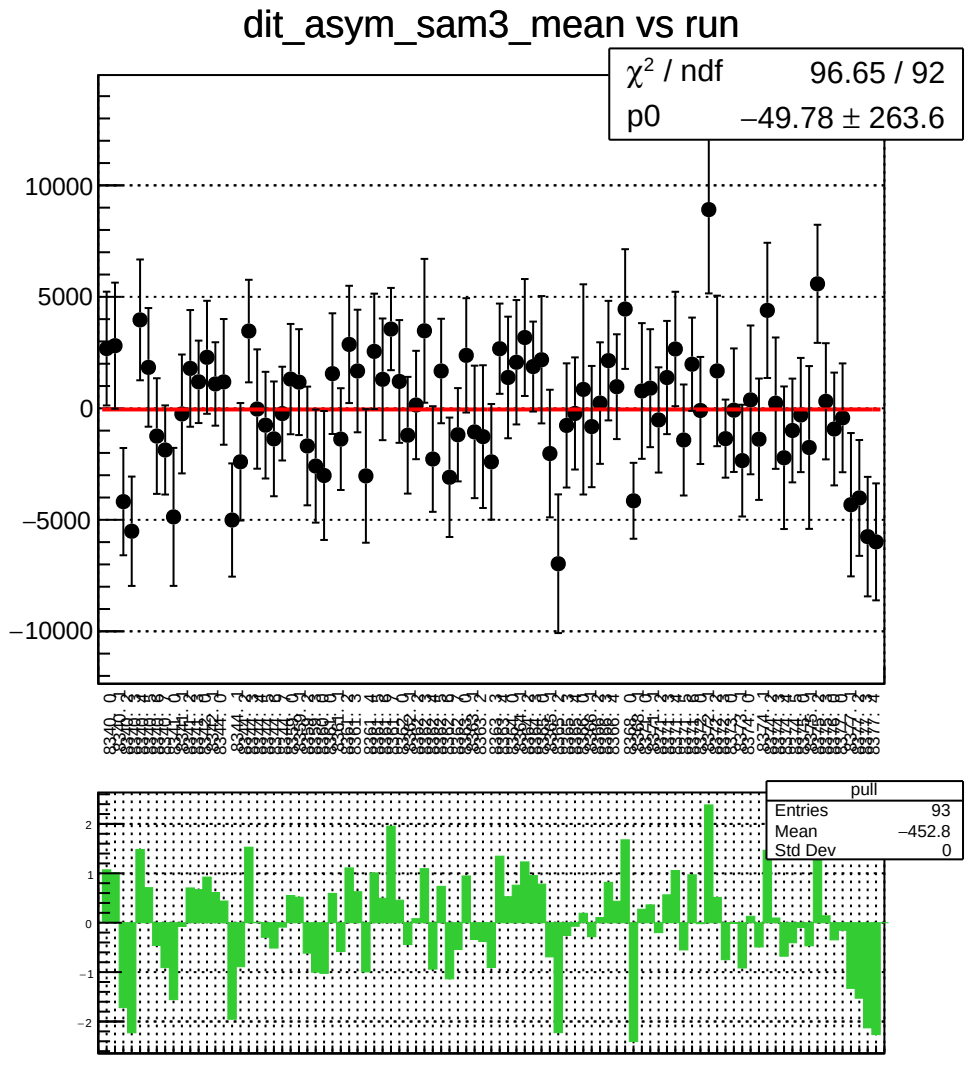

eigen_cor_asym_sam3_mean vs run
χ² / ndf 94.41 / 92
p0 234.4 ± 251.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 93
Mean 272.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.008068
Std Dev 1.008
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

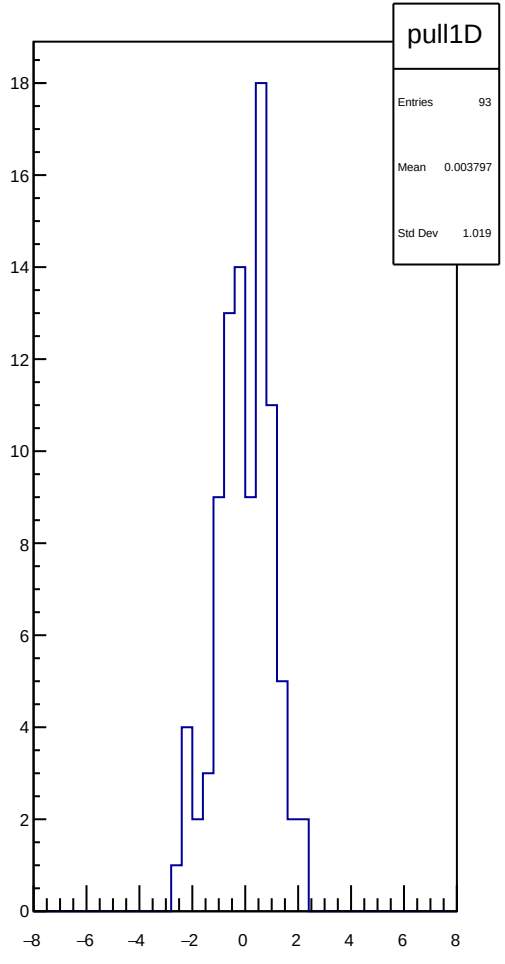

eigen_cor_asym_sam3_rms vs run
χ² / ndf 2.179e+04 / 92
p0 239.1 ± 0.1776
450
400
350
300
250
200

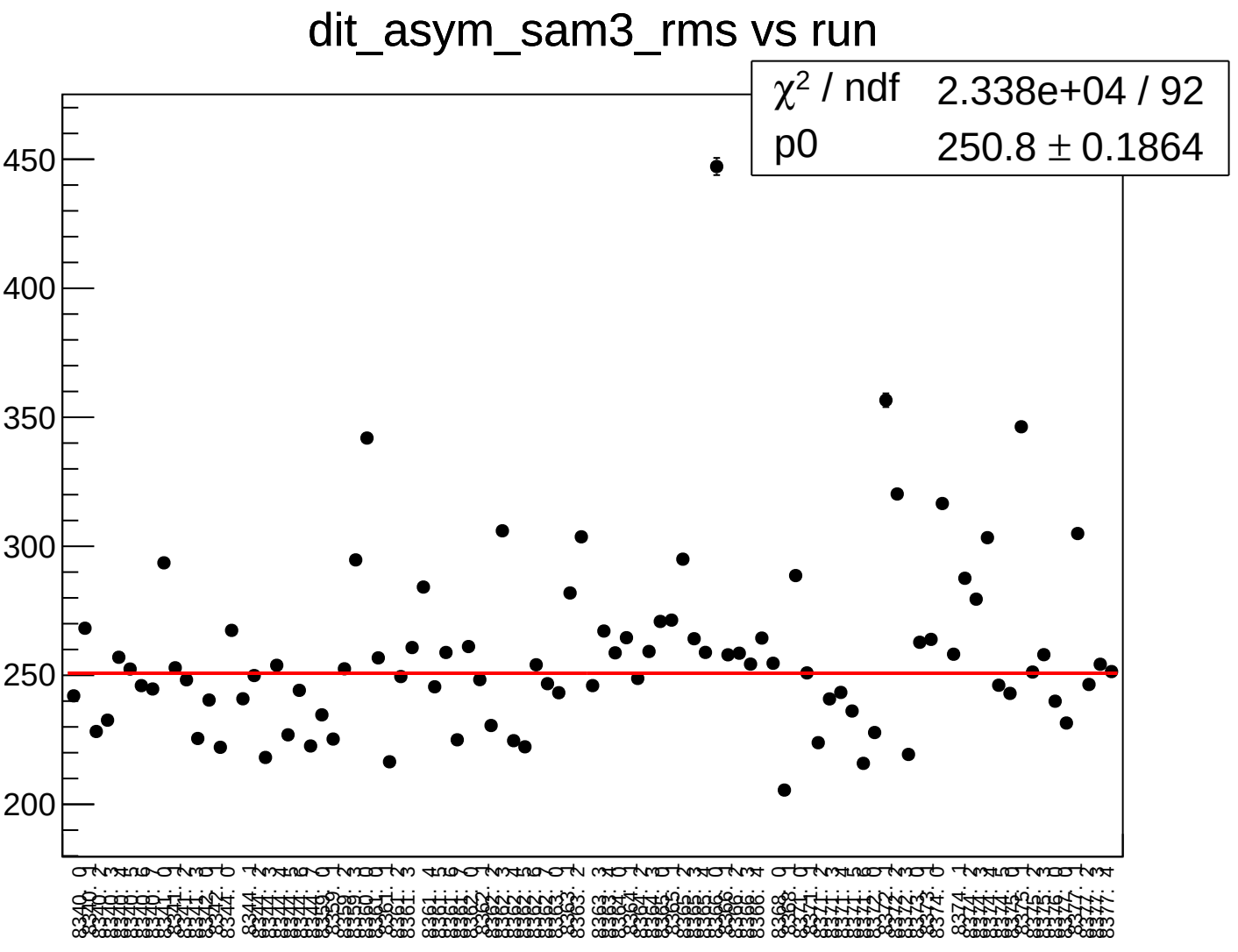

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.8 / 92
p0 −5460 ± 2849
pull
Entries 93
Mean −173.8
Std Dev 0

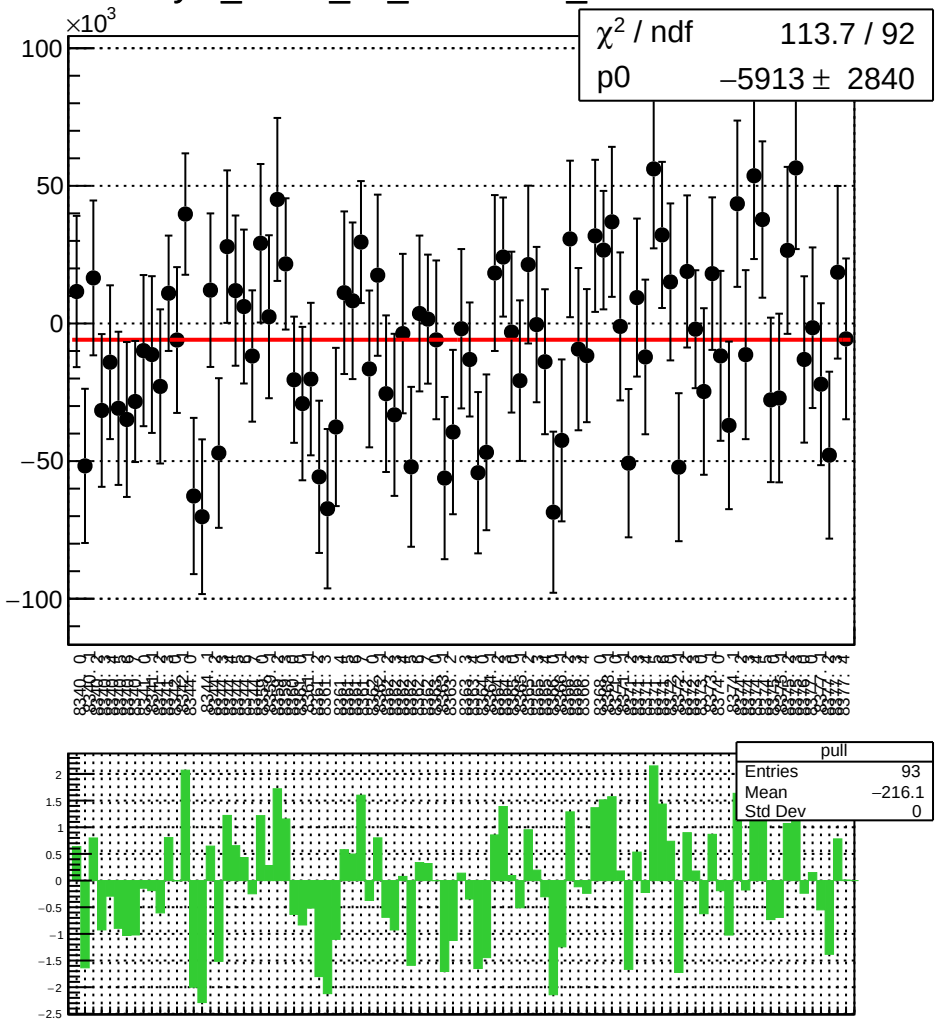

pull1D
Entries 93
Mean −0.02485
Std Dev 1.106

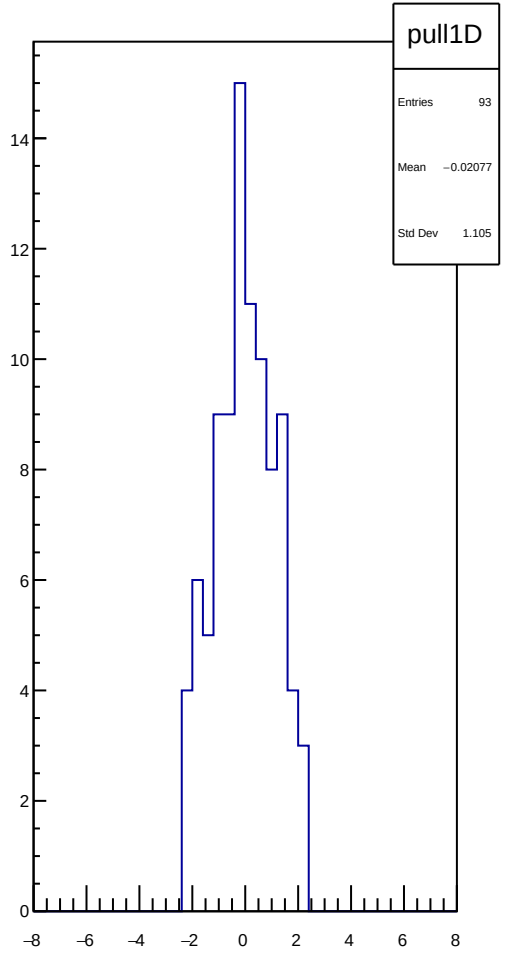

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 2384 / 92
p0 2726 ± 2.014
3000
2900
2800
2700
2600
2500
2400

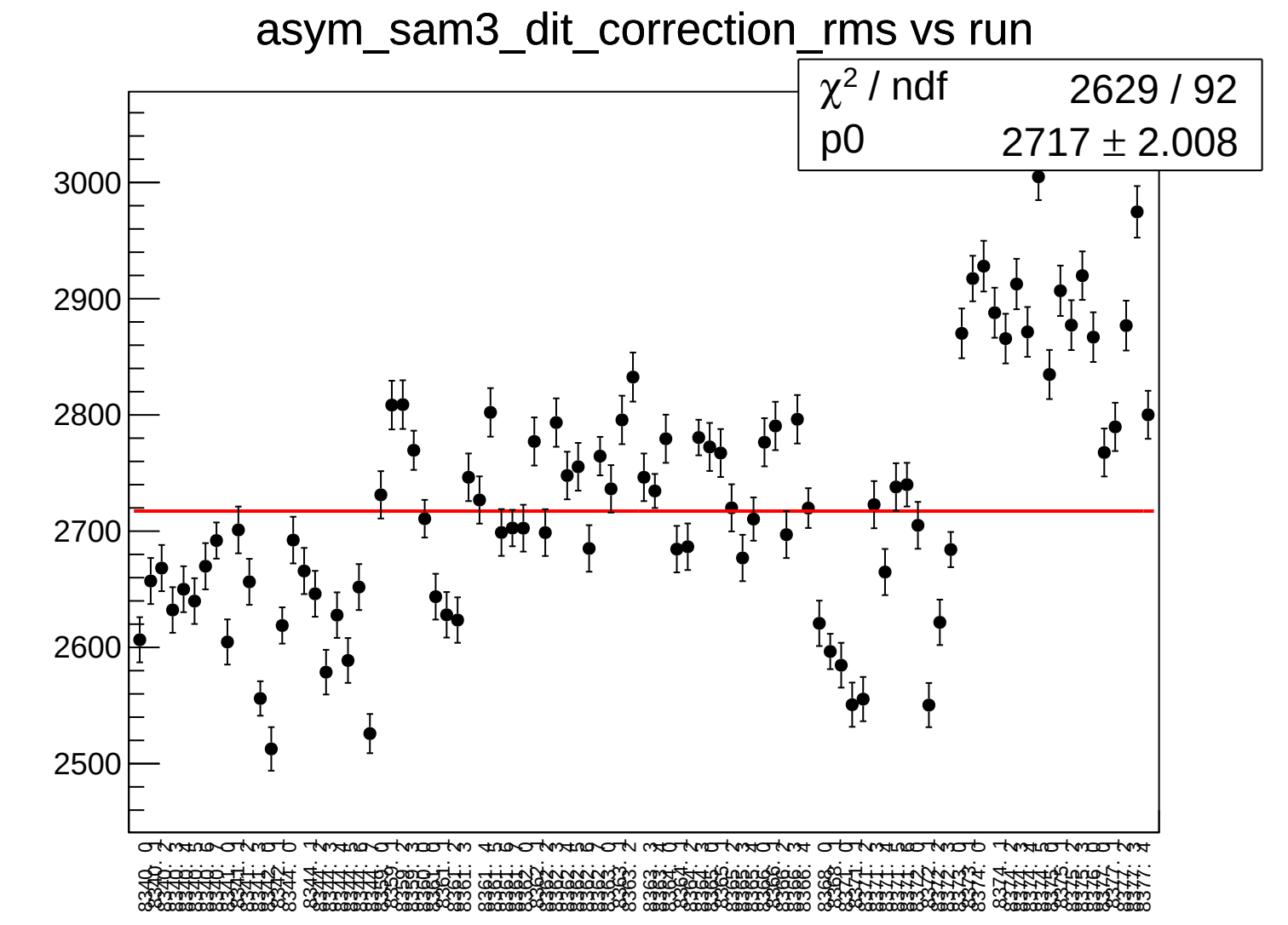

dit_asym_sam3_mean vs run
χ² / ndf 96.65 / 92
p0 −49.78 ± 263.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −452.8
Std Dev 0
2
1
0
−1
−2

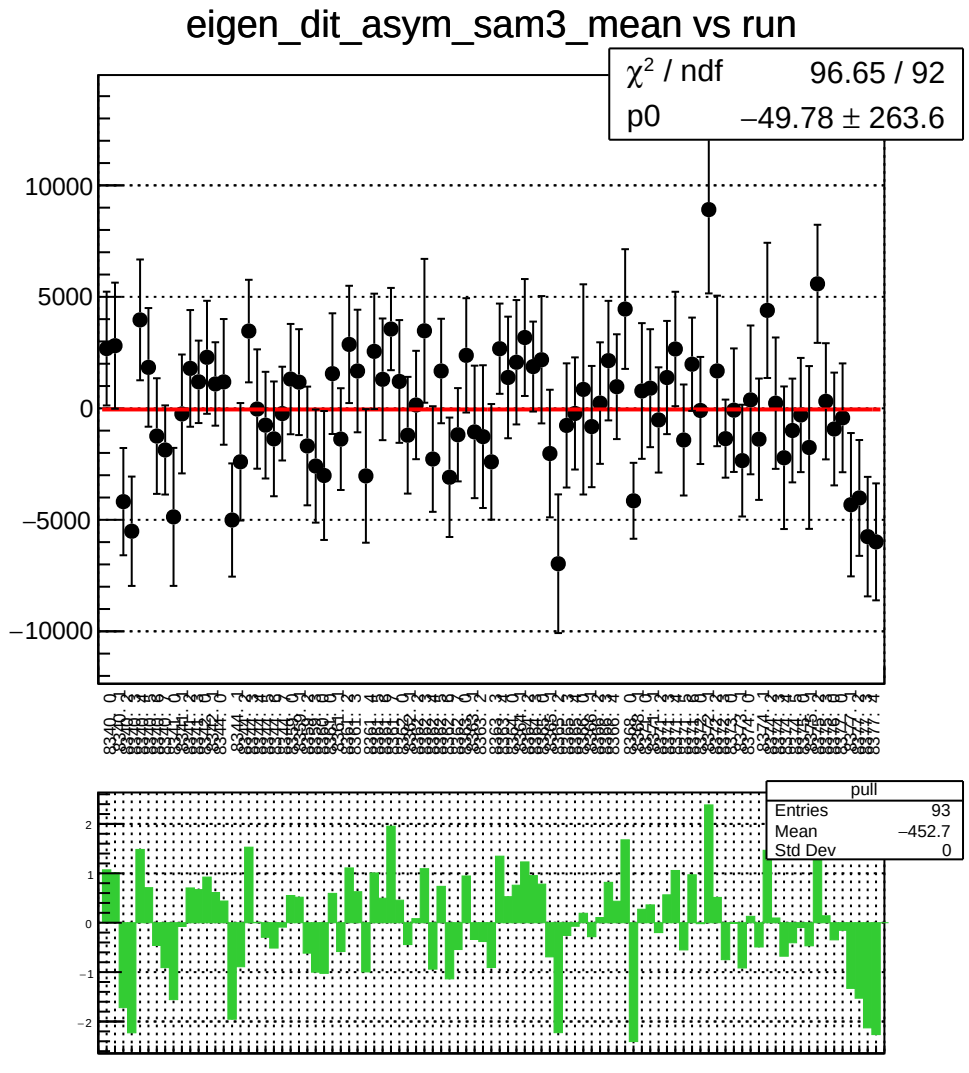

pull1D
Entries 93
Mean 0.003797
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

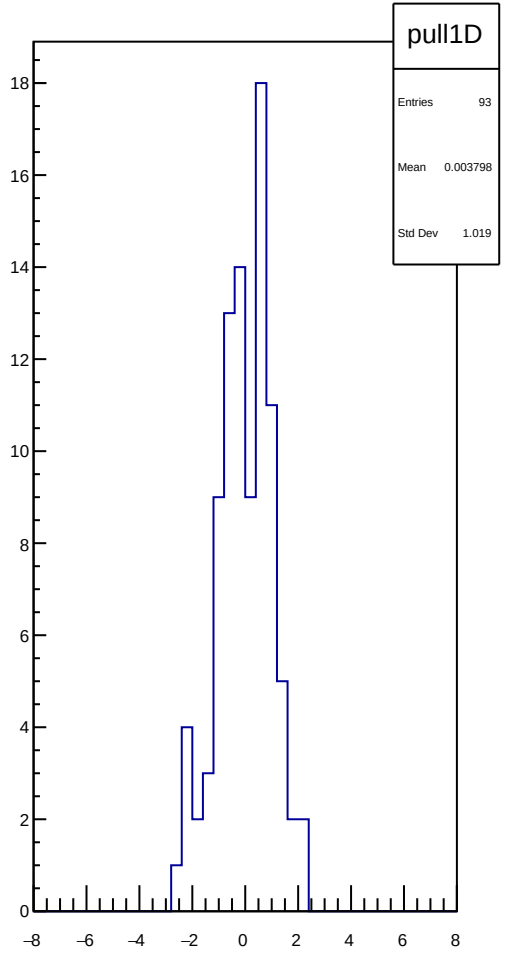

dit_asym_sam3_rms vs run
χ² / ndf 2.338e+04 / 92
p0 250.8 ± 0.1864
450
400
350
300
250
200

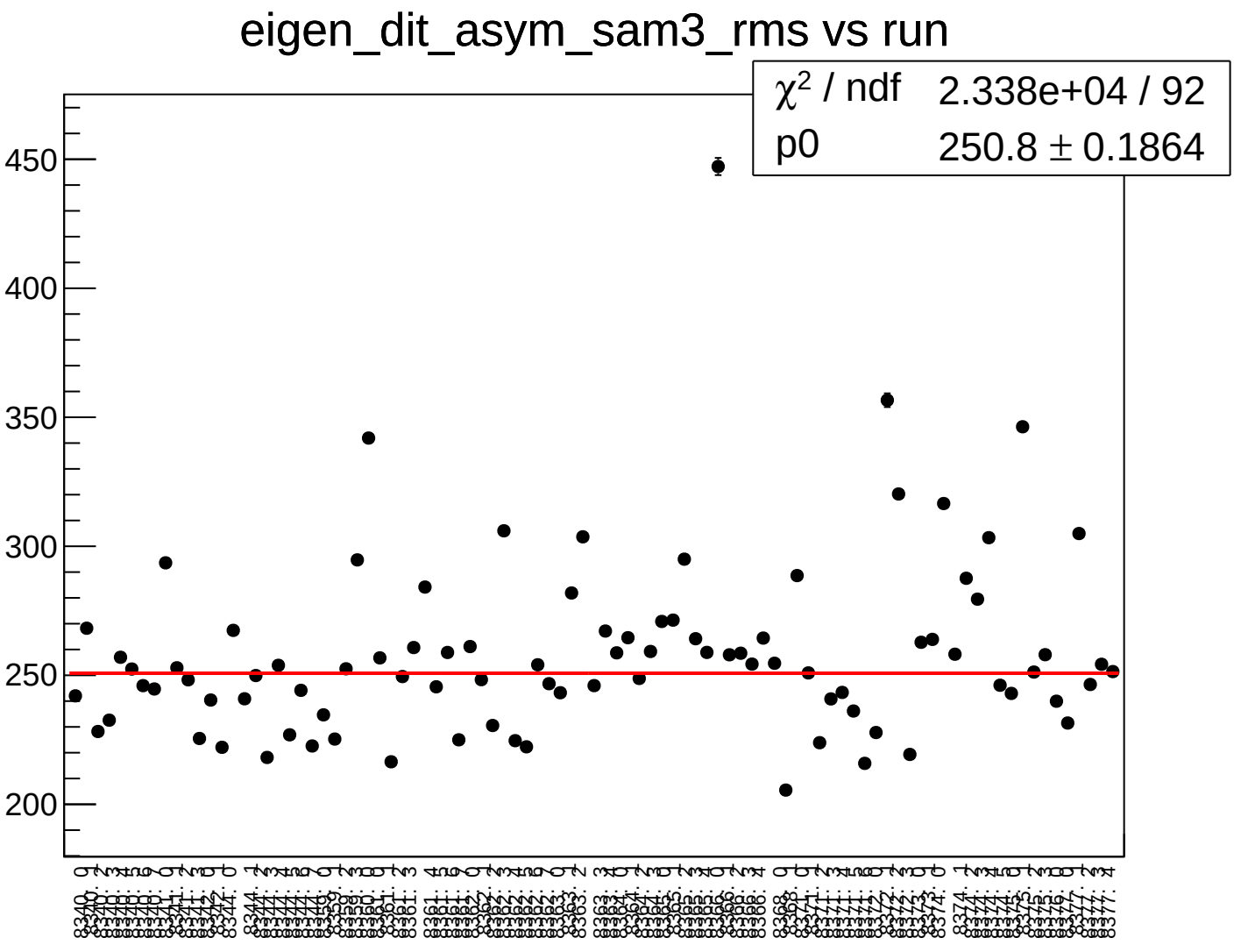

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 113.7 / 92
p0 −5913 ± 2840
100
50
0
−50
−100
pull
Entries 93
Mean −216.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

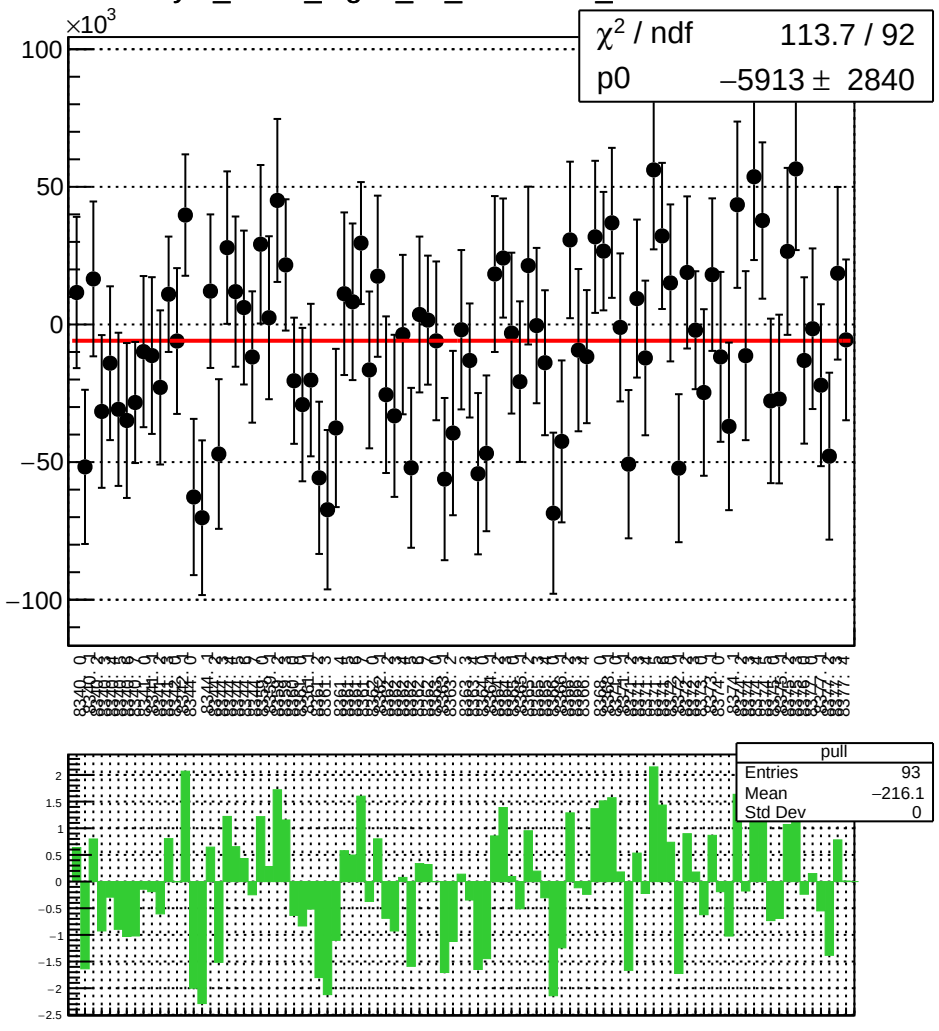

pull1D
Entries 93
Mean −0.02077
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

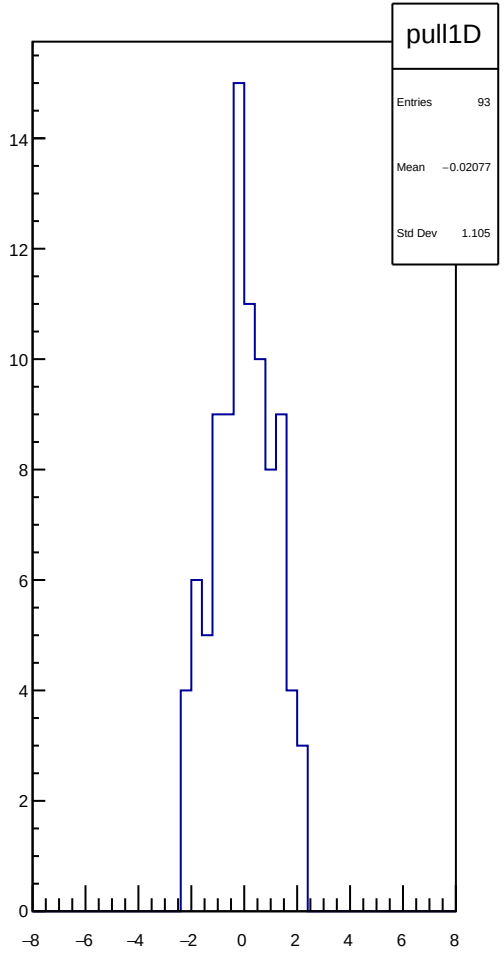

asym_sam3_dit_correction_rms vs run
χ² / ndf 2629 / 92
p0 2717 ± 2.008
3000
2900
2800
2700
2600
2500

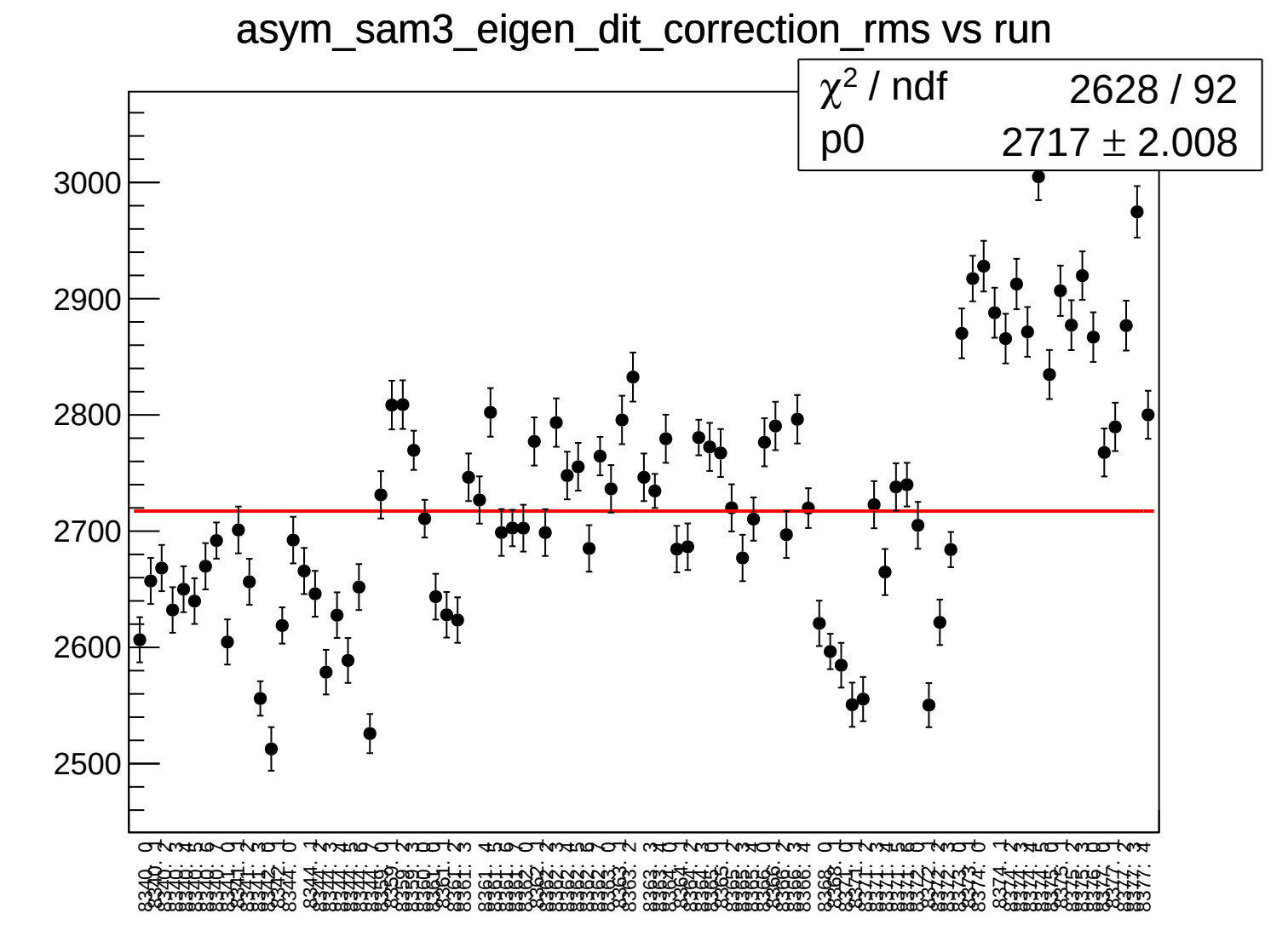

eigen_dit_asym_sam3_mean vs run
χ² / ndf 96.65 / 92
p0 −49.78 ± 263.6
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −452.7
Std Dev 0
2
1
0
−1
−2

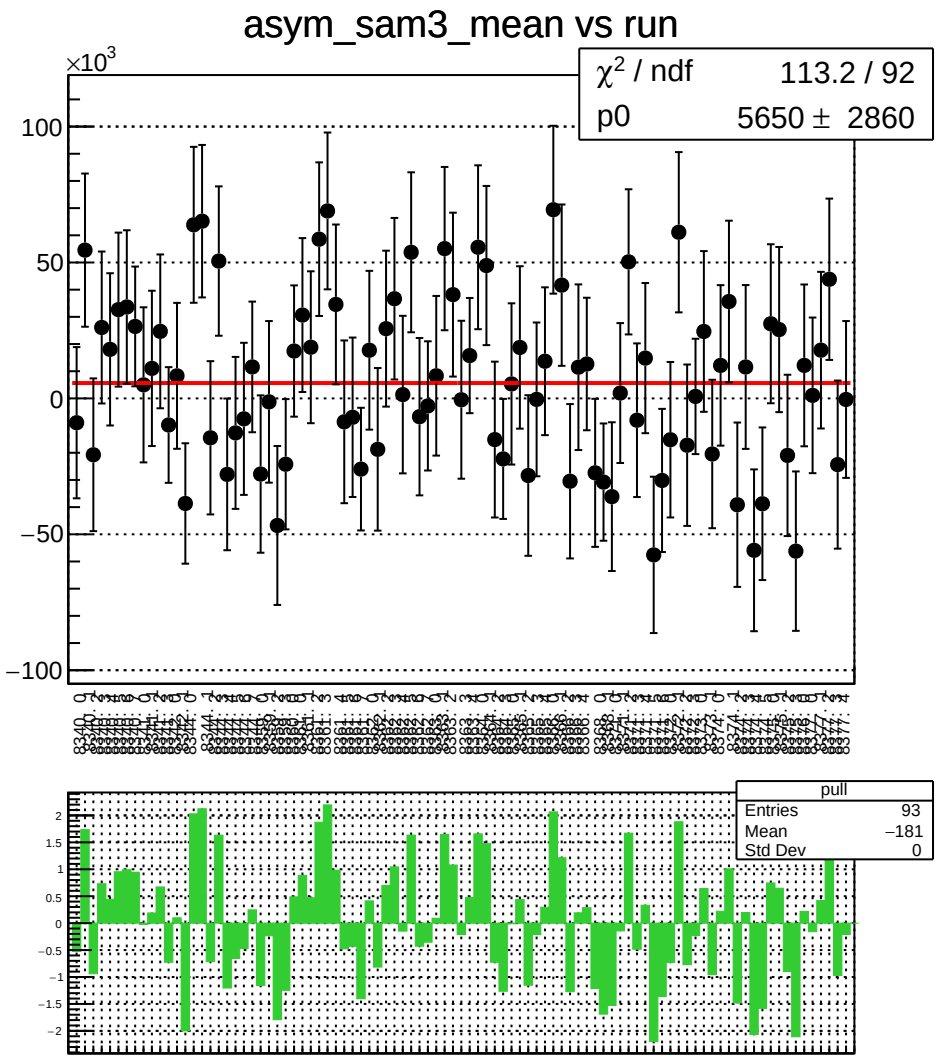

pull1D
Entries 93
Mean 0.003798
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

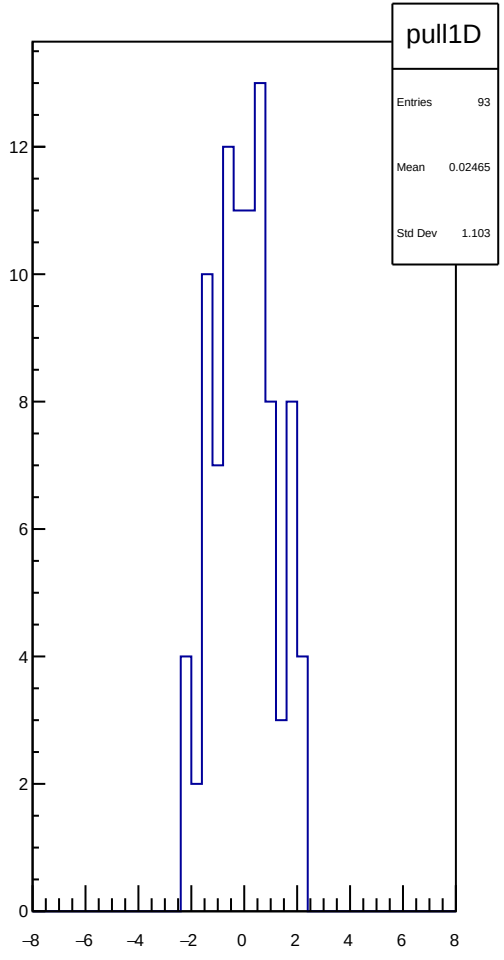

eigen_dit_asym_sam3_rms vs run
χ² / ndf 2.338e+04 / 92
p0 250.8 ± 0.1864
450
400
350
300
250
200

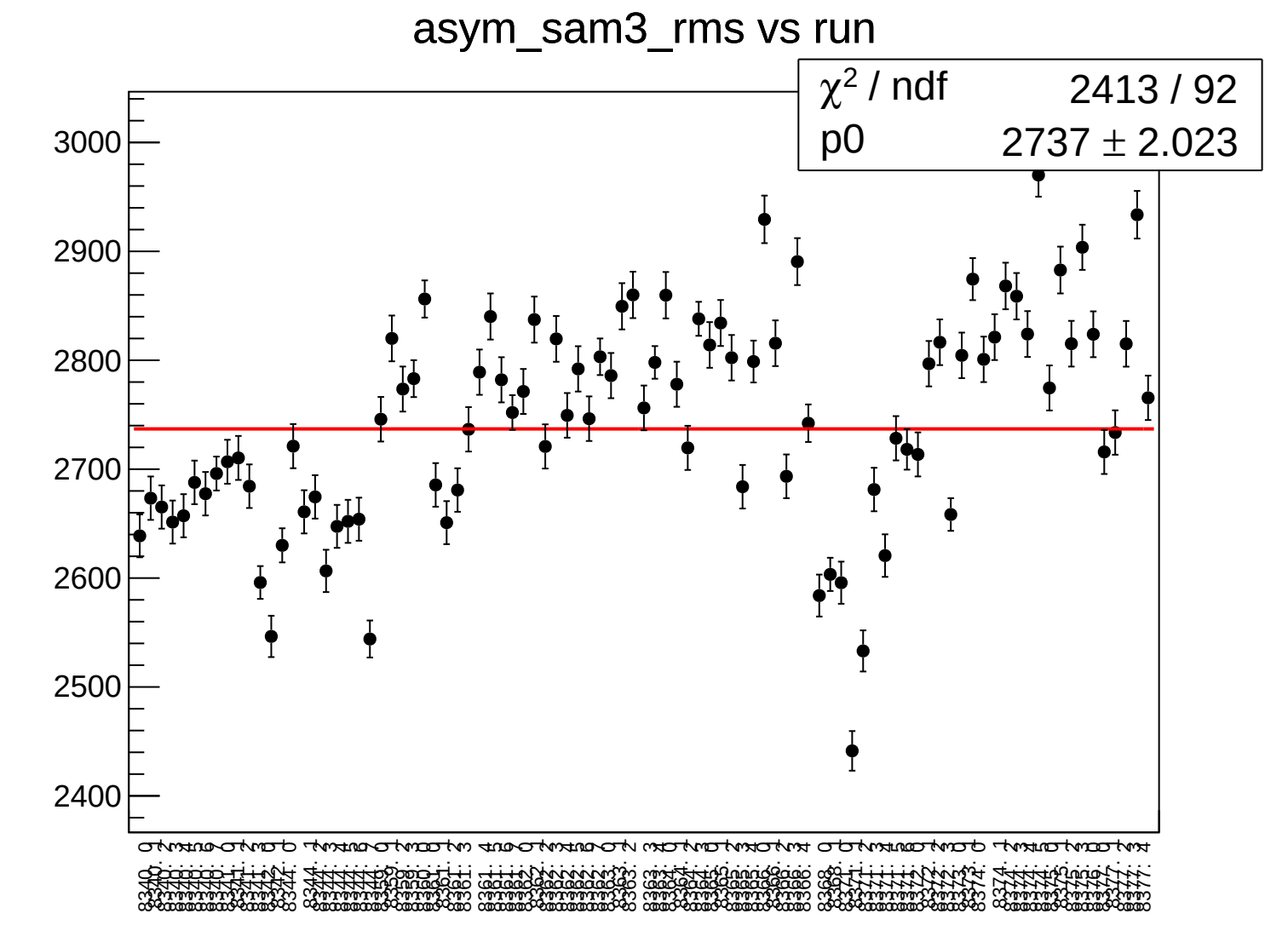

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113.7 / 92
p0 −5913 ± 2840
100
50
0
−50
−100
pull
Entries 93
Mean −216.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

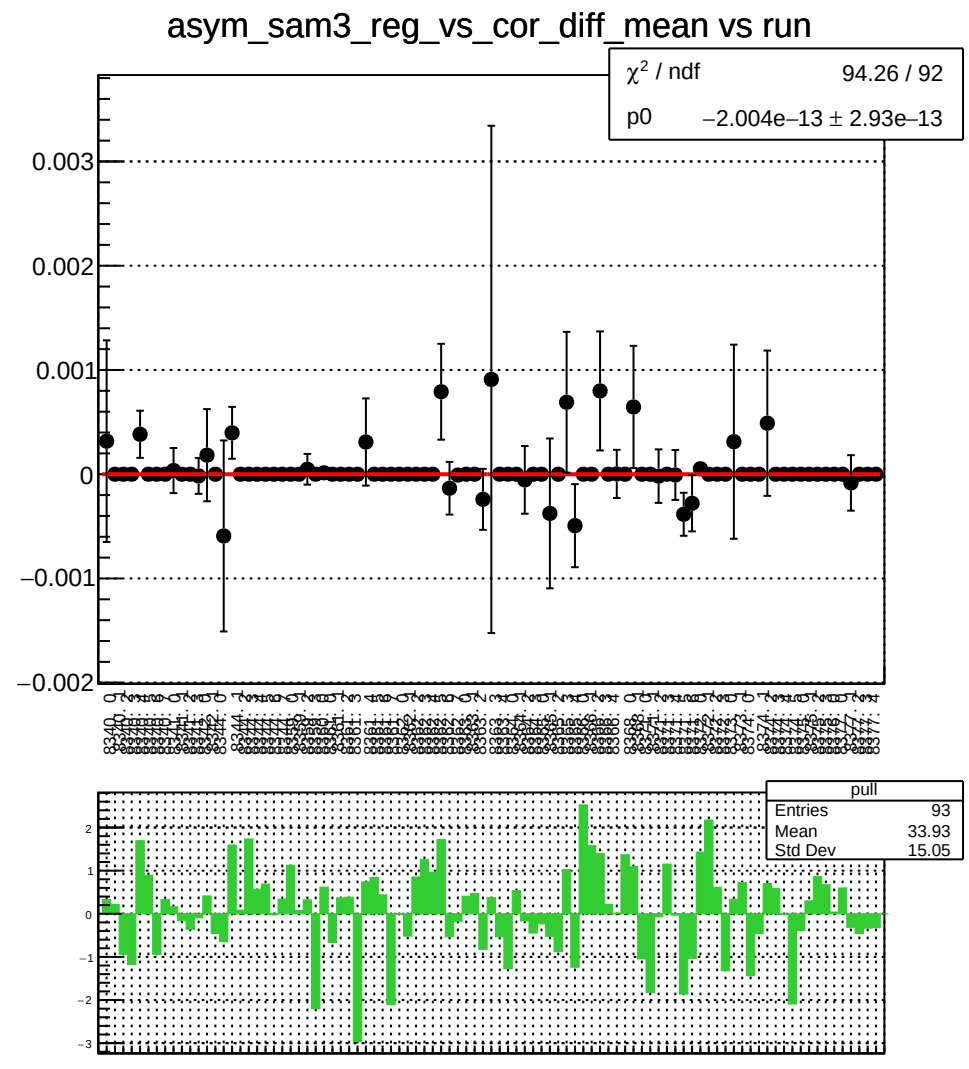

pull1D
Entries 93
Mean −0.02077
Std Dev 1.105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

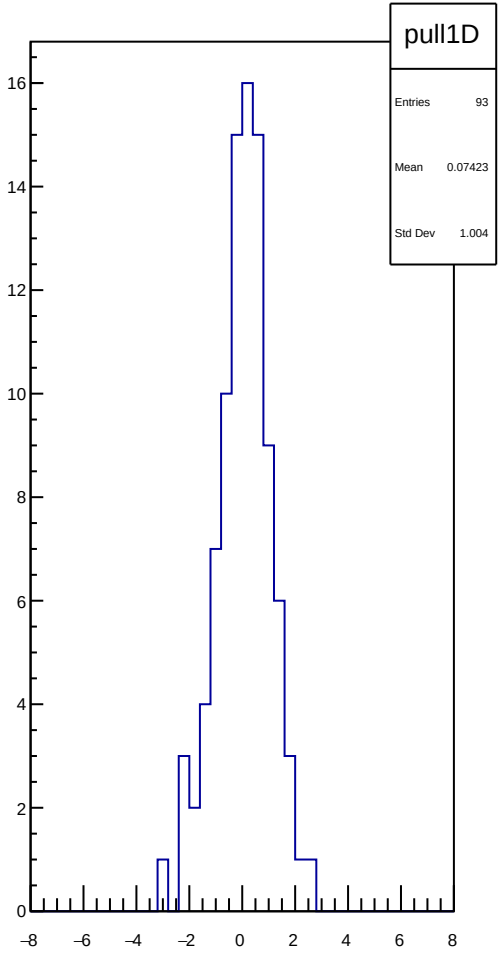

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 2628 / 92
p0 2717 ± 2.008
3000
2900
2800
2700
2600
2500

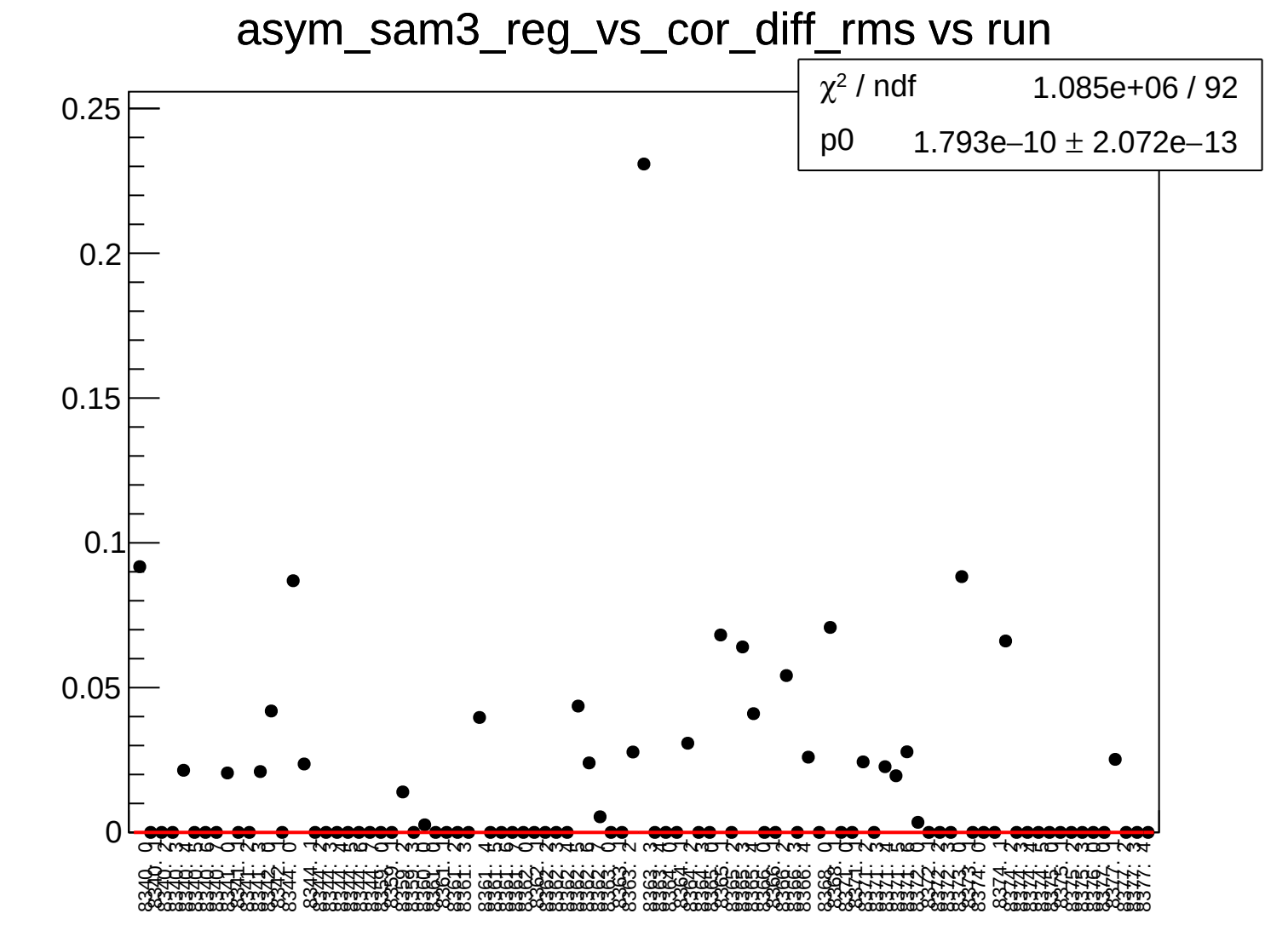

asym_sam3_mean vs run
×10^3
χ^2 / ndf 113.2 / 92
p0 5650 ± 2860
100
50
0
−50
−100
pull
Entries 93
Mean −181
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

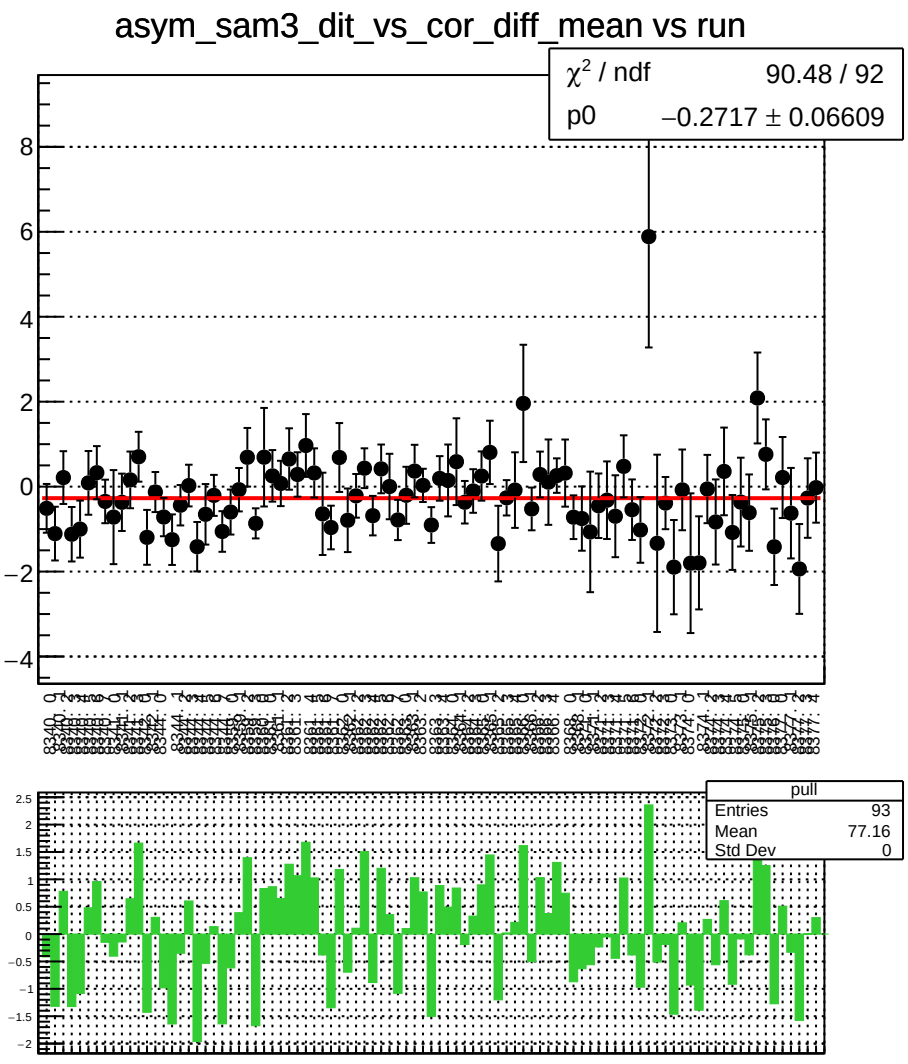

pull1D
Entries 93
Mean 0.02465
Std Dev 1.103
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

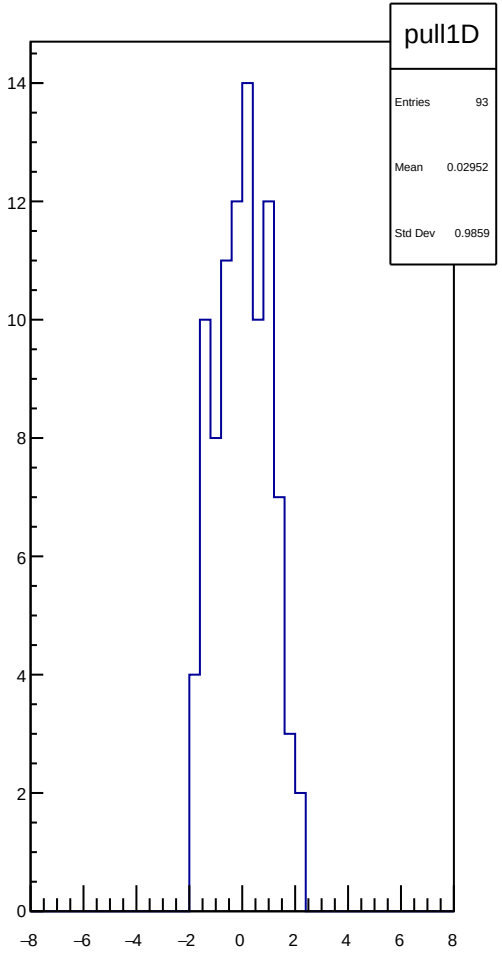

asym_sam3_rms vs run
χ^2 / ndf 2413 / 92
p0 2737 ± 2.023
3000
2900
2800
2700
2600
2500
2400

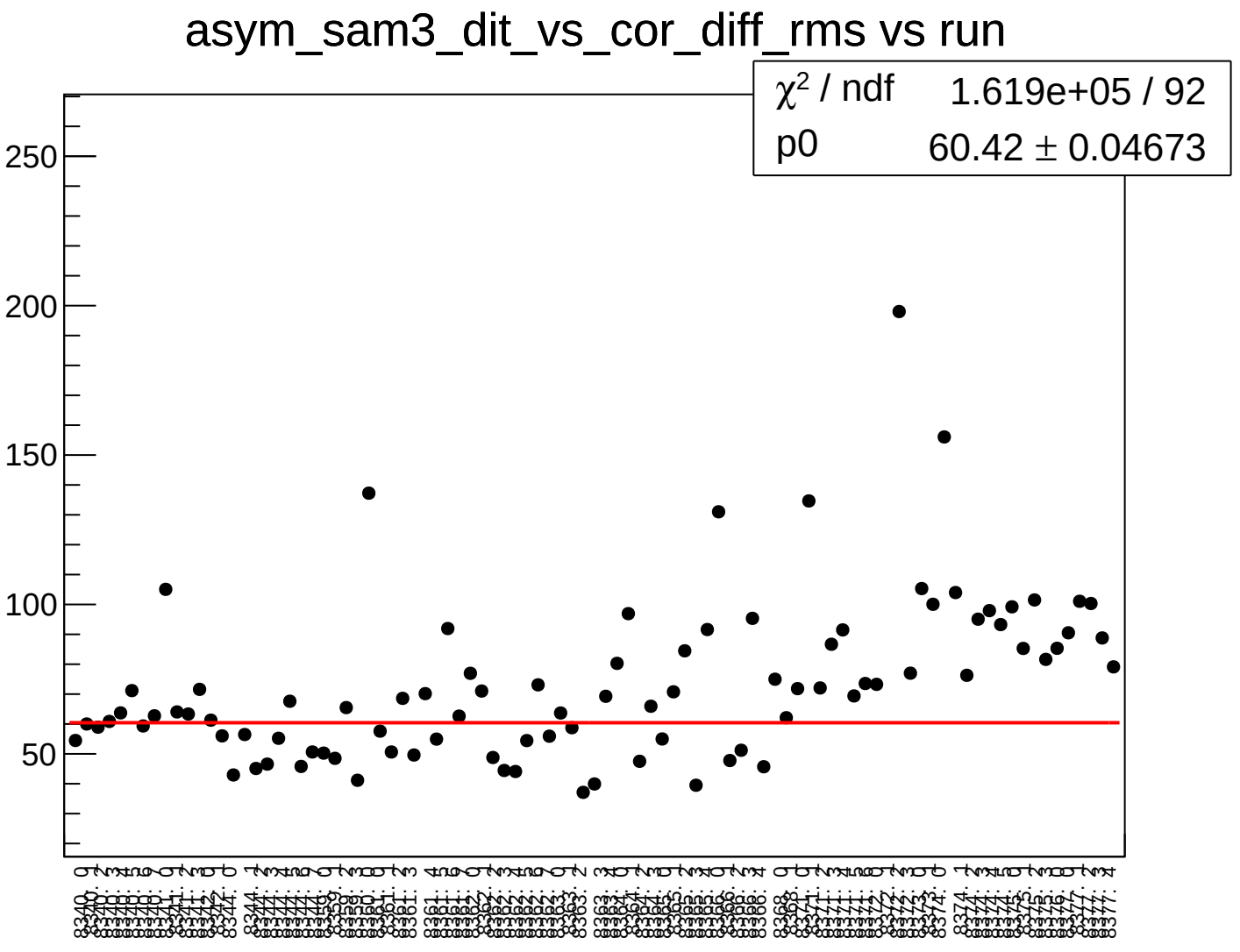

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 94.26 / 92
p0 −2.004e−13 ± 2.93e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 93
Mean 33.93
Std Dev 15.05
2
1
0
−1
−2
−3

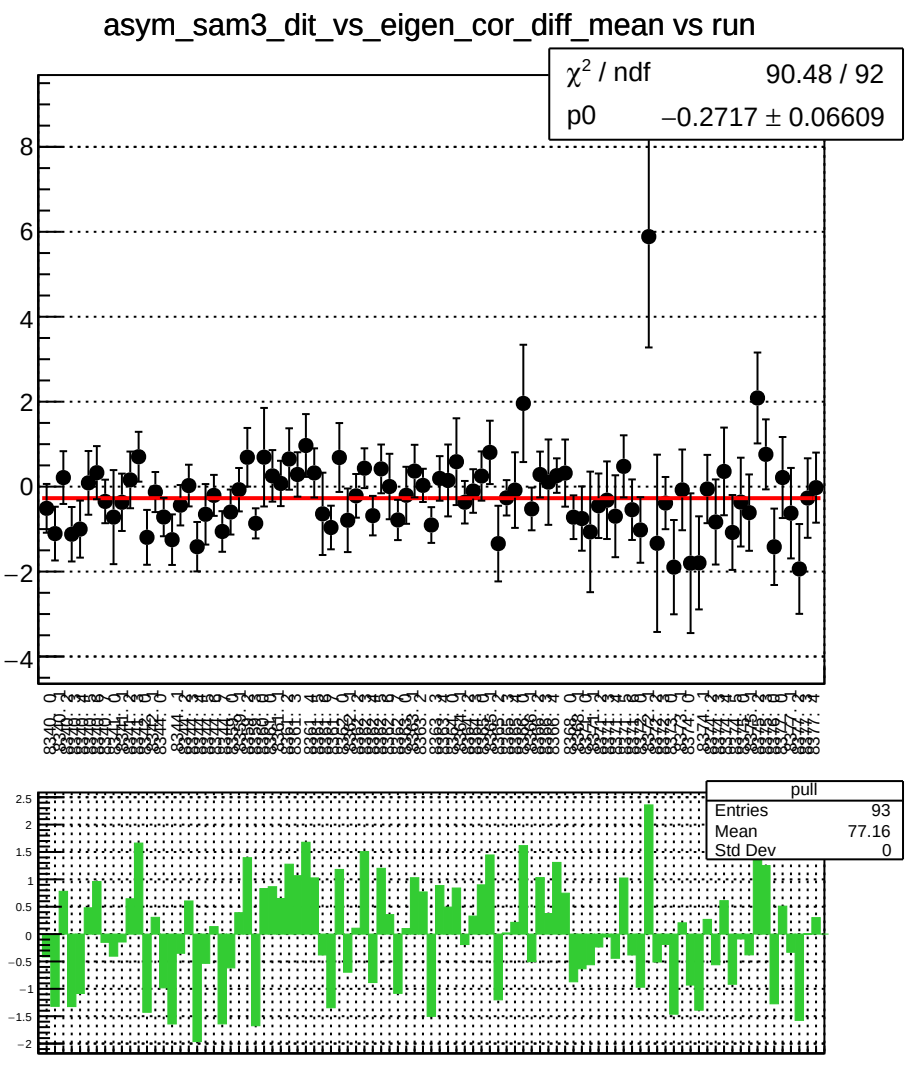

pull1D
Entries 93
Mean 0.07423
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

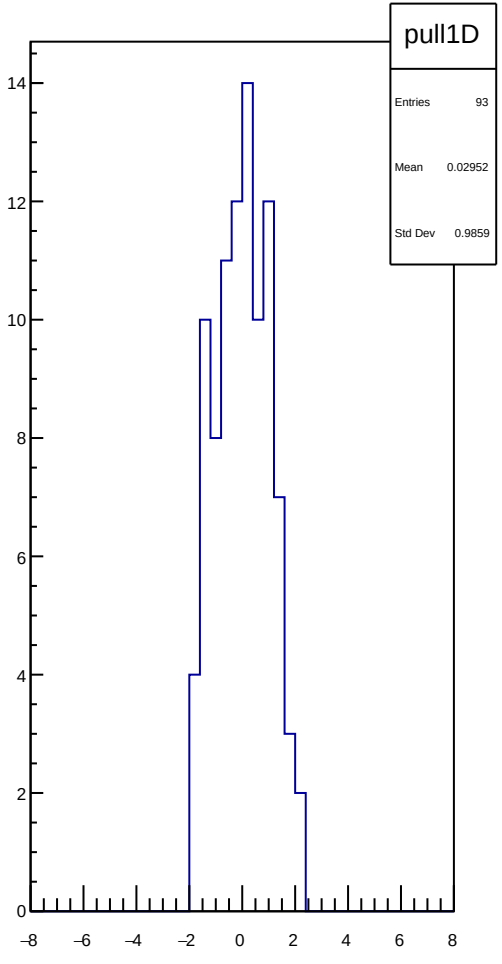

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 92
p0 1.793e−10 ± 2.072e−13
0.25
0.2
0.15
0.1
0.05
0

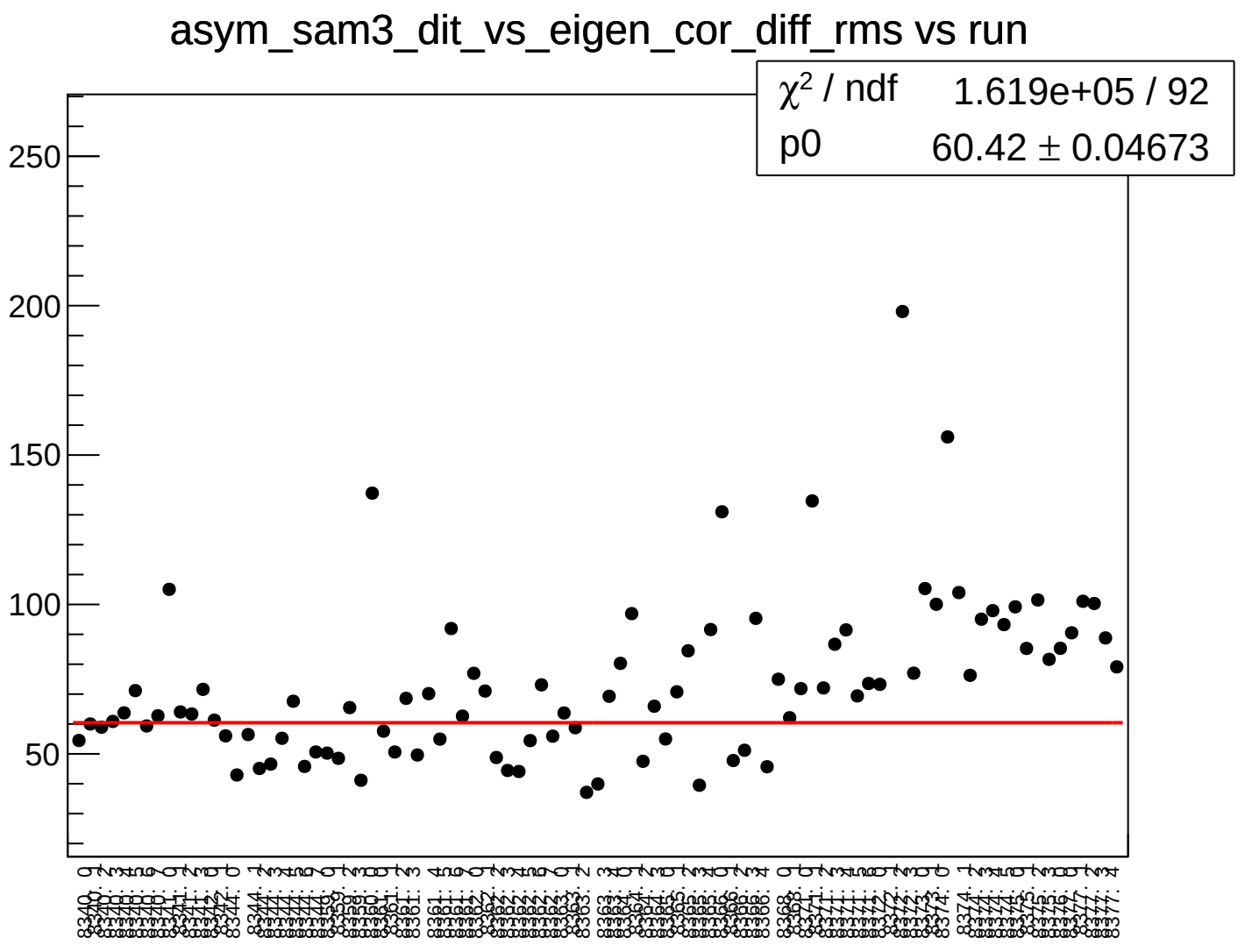

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.2717 ± 0.06609
pull
Entries 93
Mean 77.16
Std Dev 0

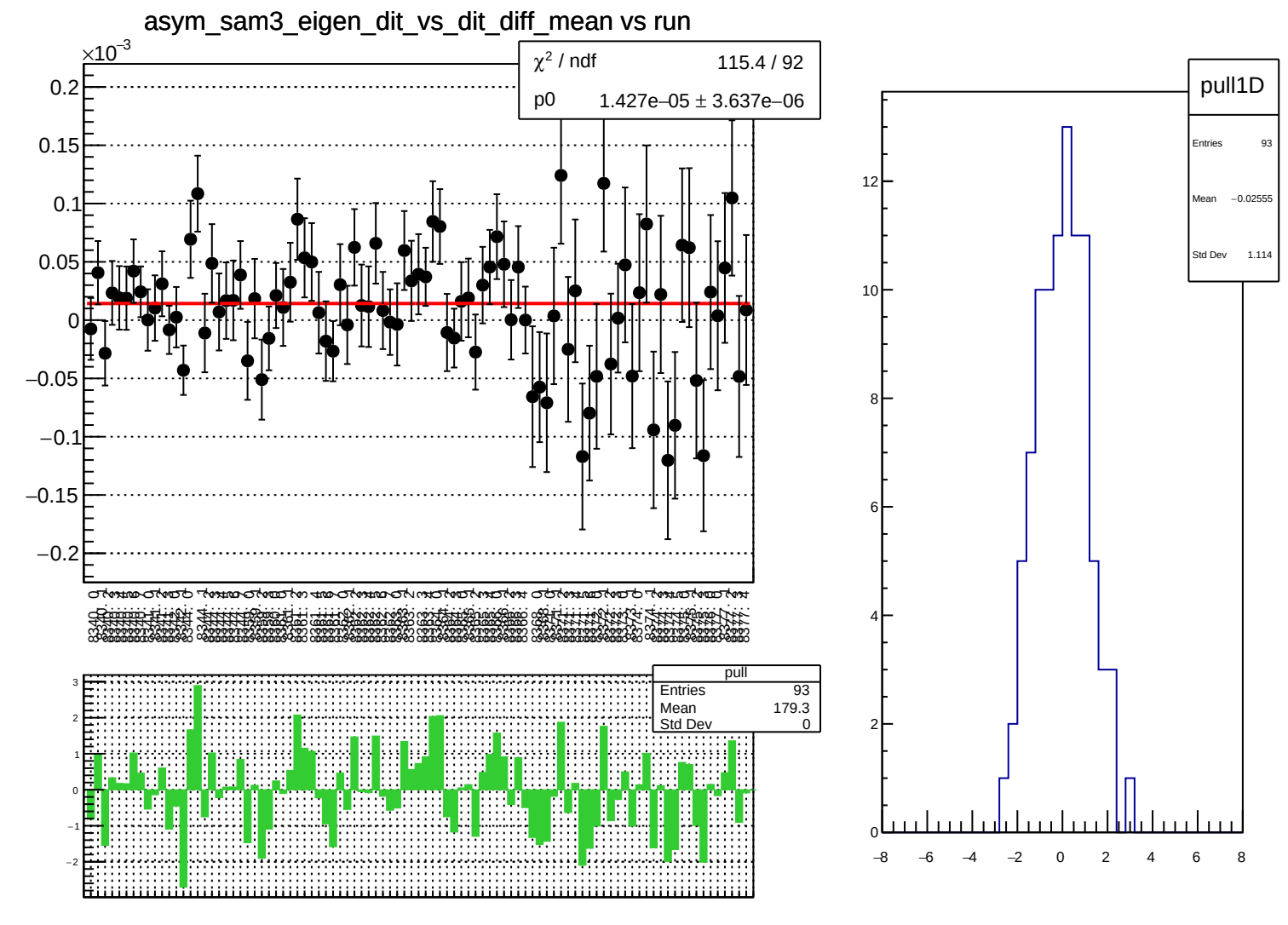

pull1D
Entries 93
Mean 0.02952
Std Dev 0.9859

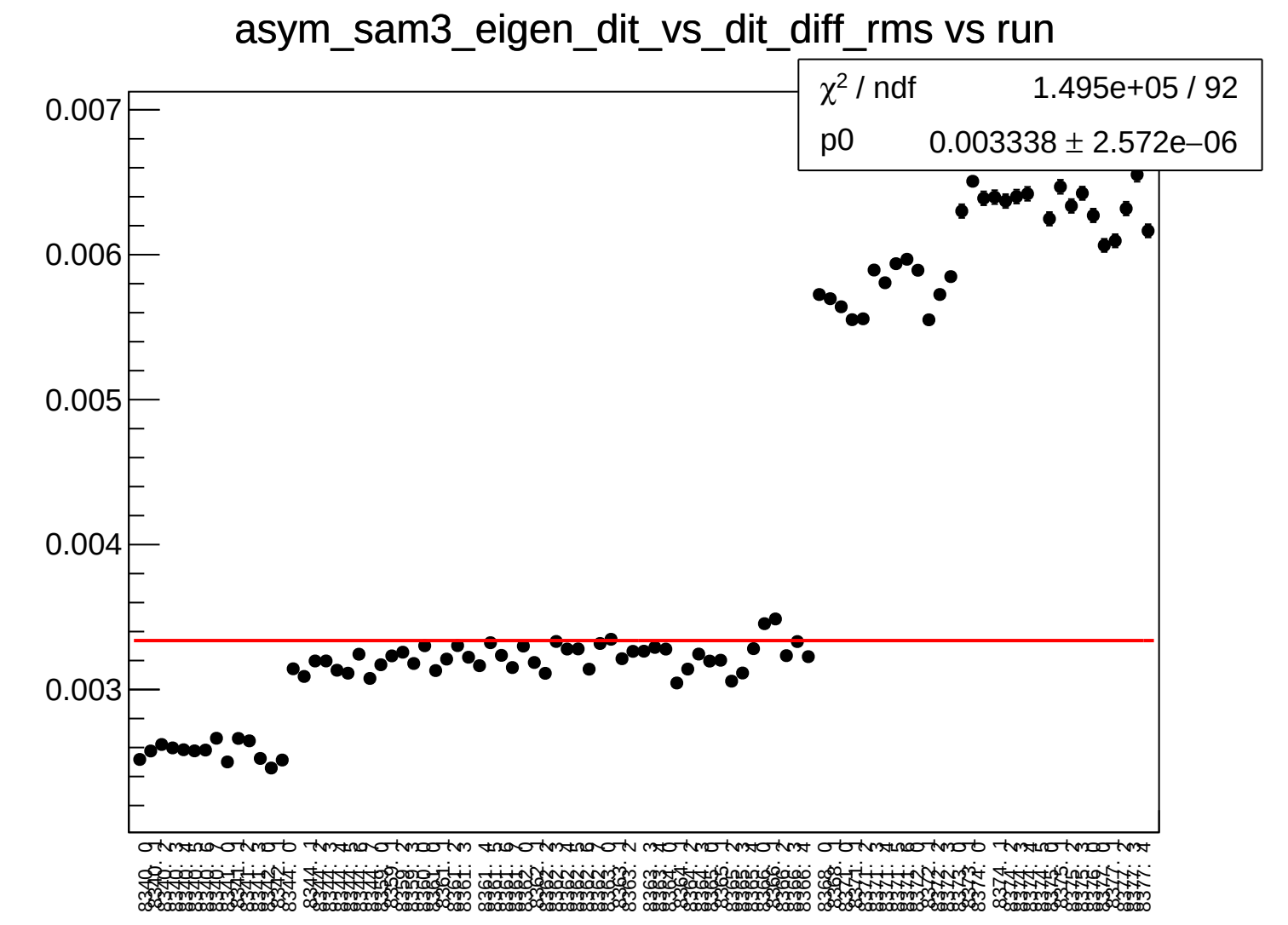

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.619e+05 / 92
p0 60.42 ± 0.04673
250
200
150
100
50

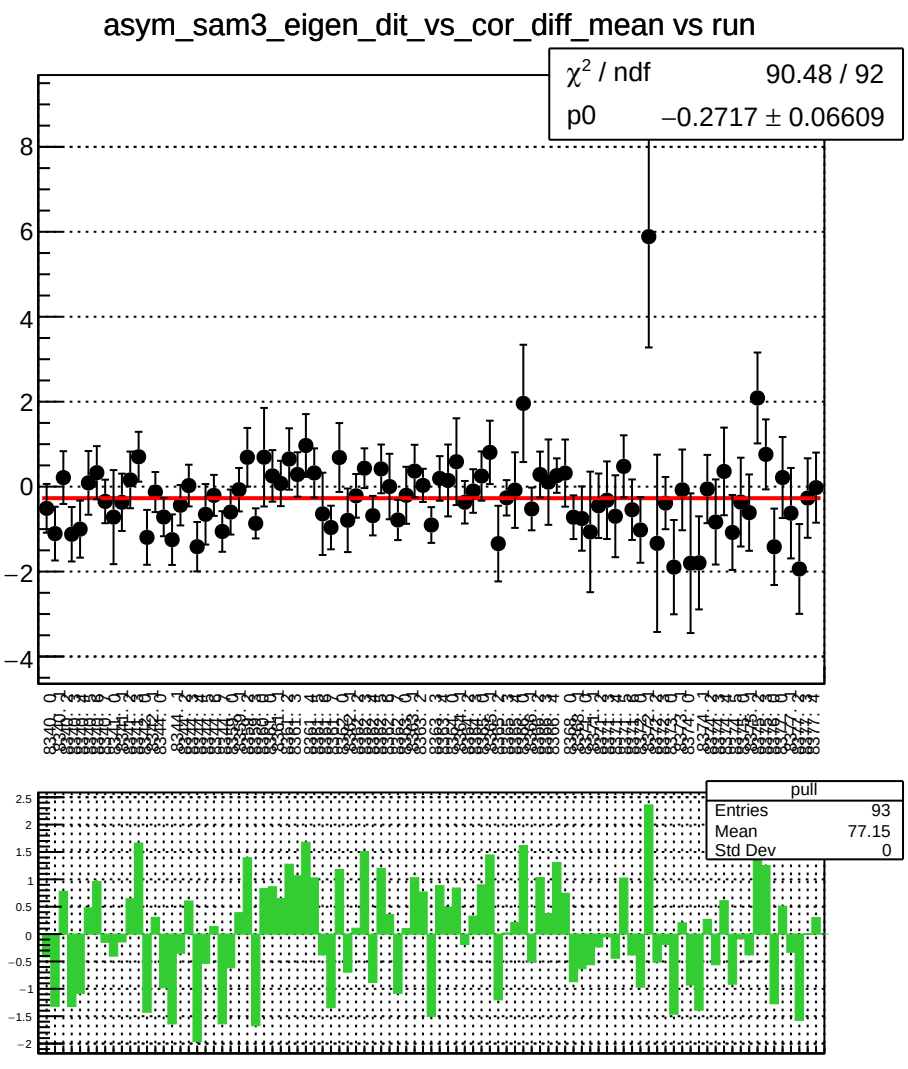

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.2717 ± 0.06609
pull
Entries 93
Mean 77.16
Std Dev 0

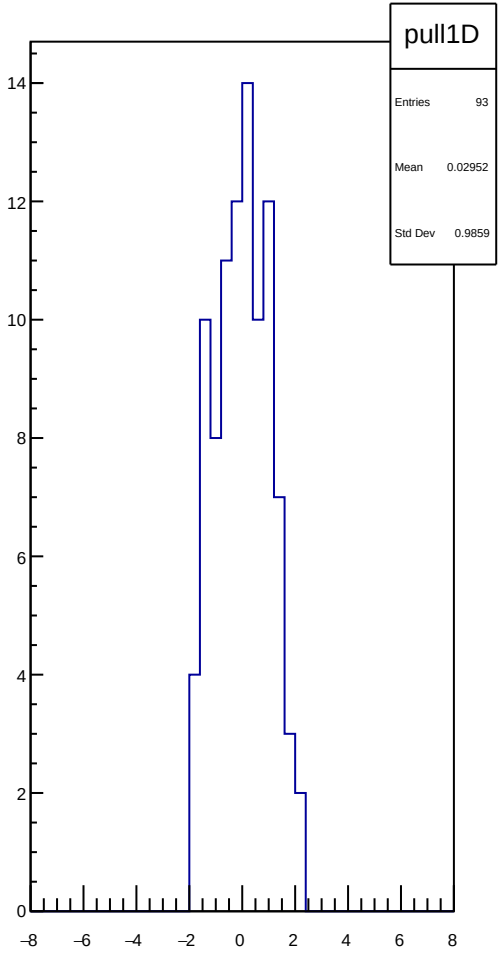

pull1D
Entries 93
Mean 0.02952
Std Dev 0.9859

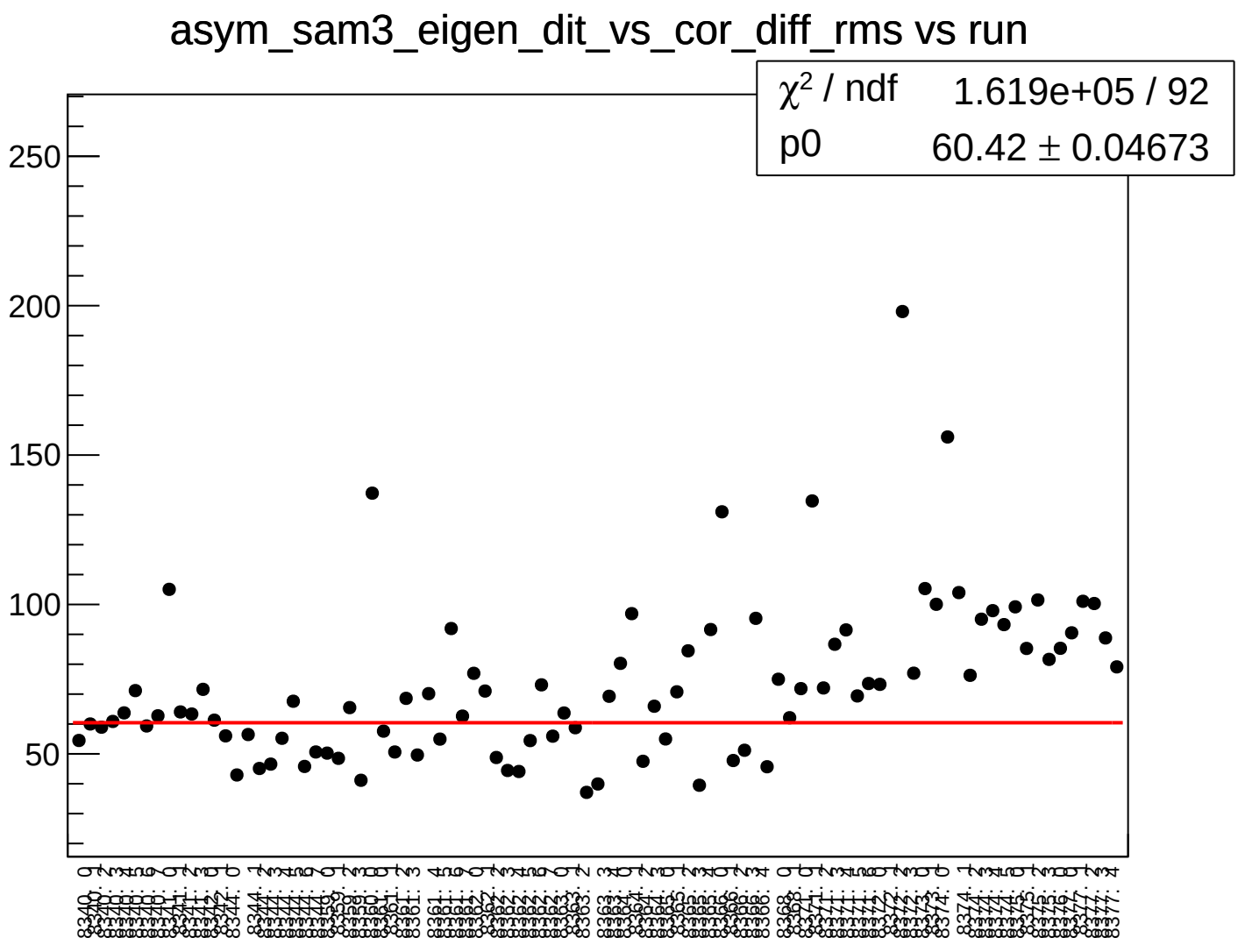

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.619e+05 / 92
p0 60.42 ± 0.04673
250
200
150
100
50

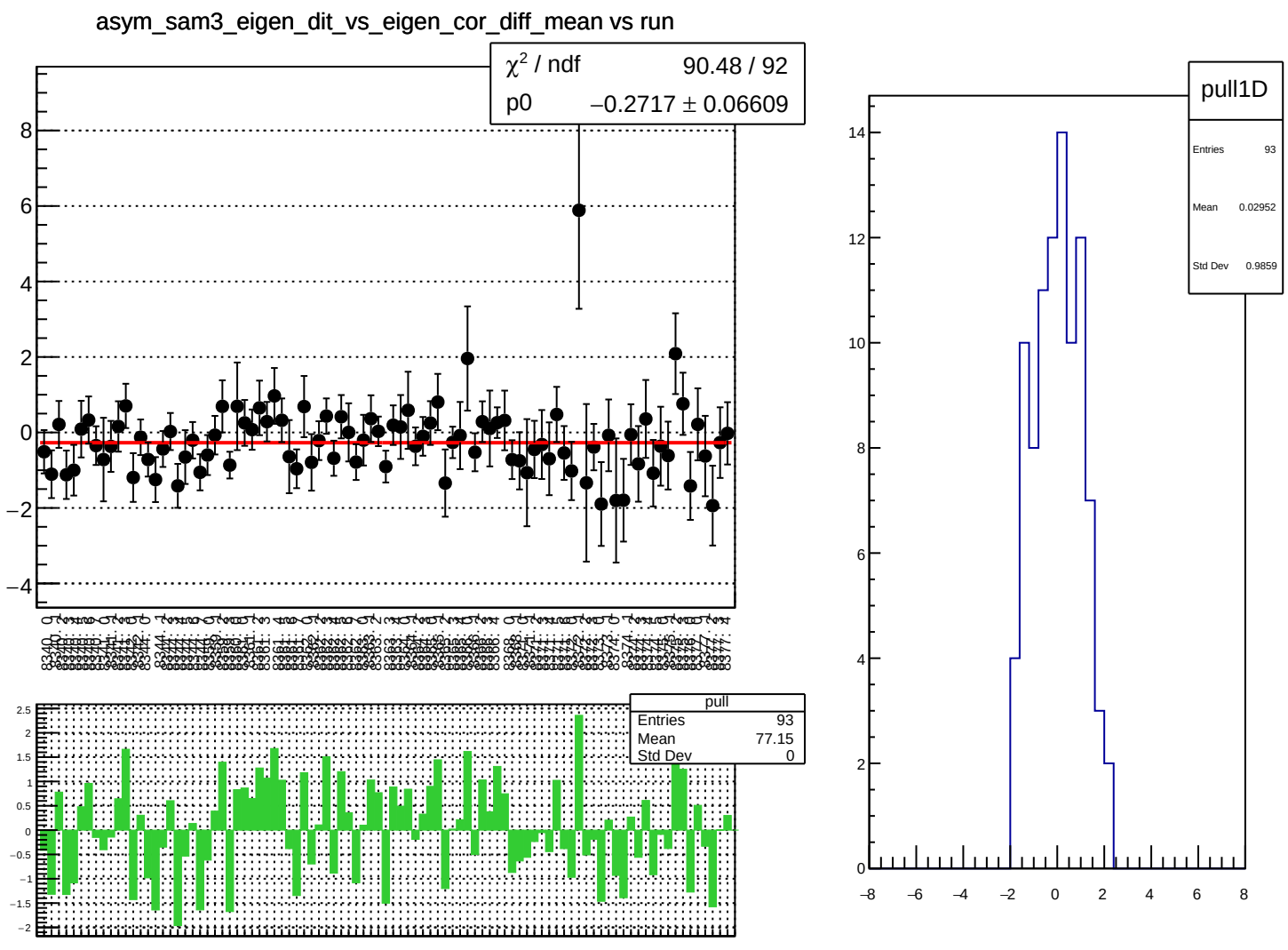

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.4 / 92
p0 1.427e−05 ± 3.637e−06
pull
Entries 93
Mean 179.3
Std Dev 0
pull1D
Entries 93
Mean −0.02555
Std Dev 1.114

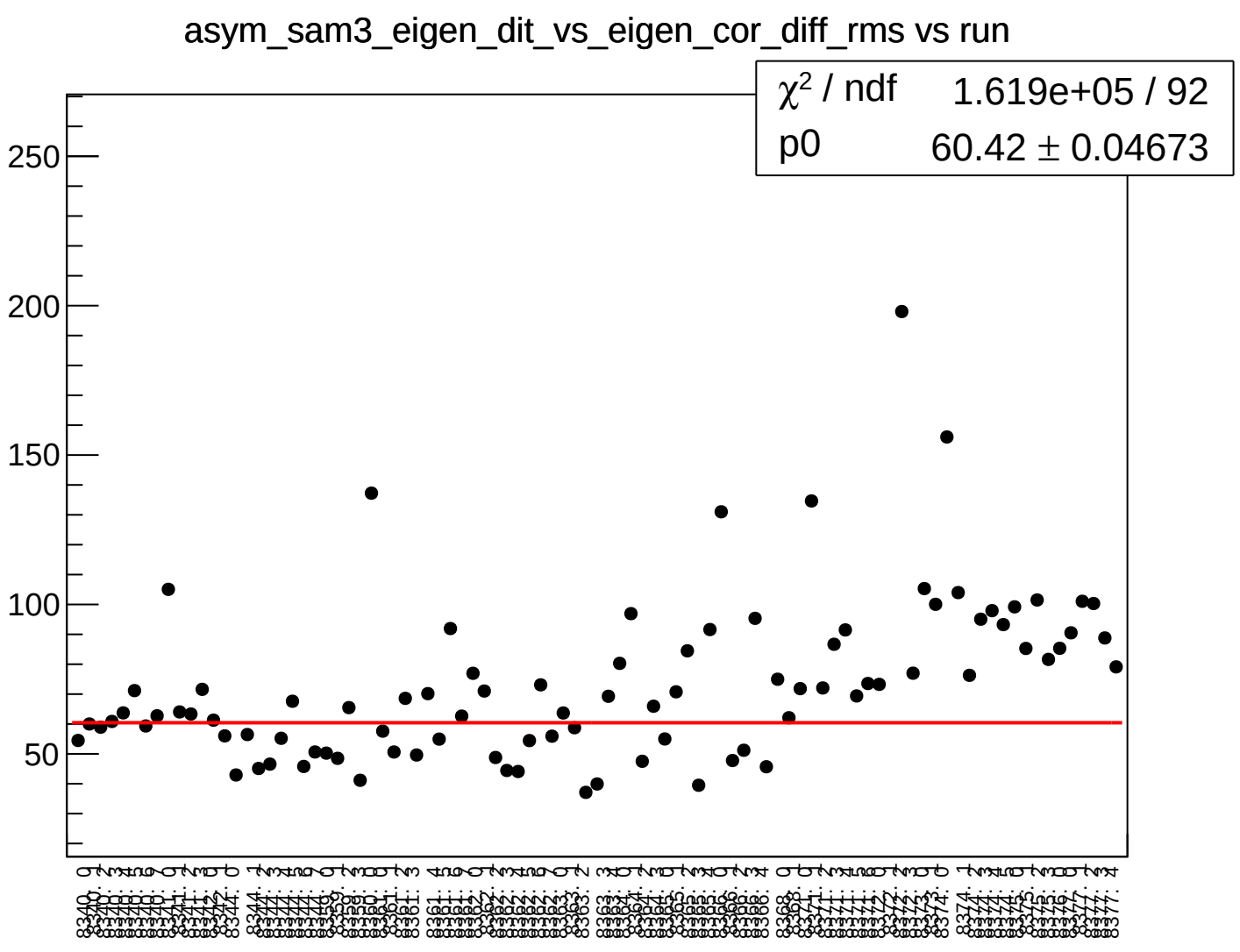

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.495e+05 / 92
p0 0.003338 ± 2.572e−06
0.007
0.006
0.005
0.004
0.003

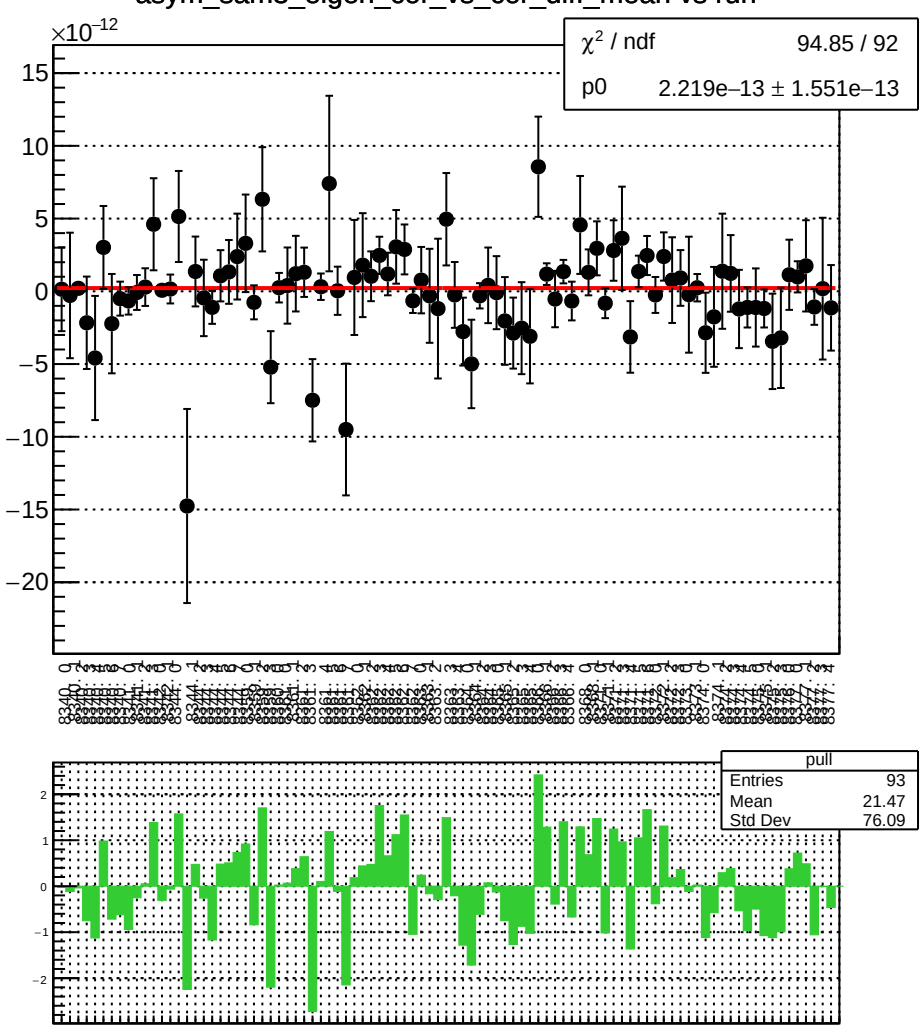

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.2717 ± 0.06609
pull
Entries 93
Mean 77.15
Std Dev 0

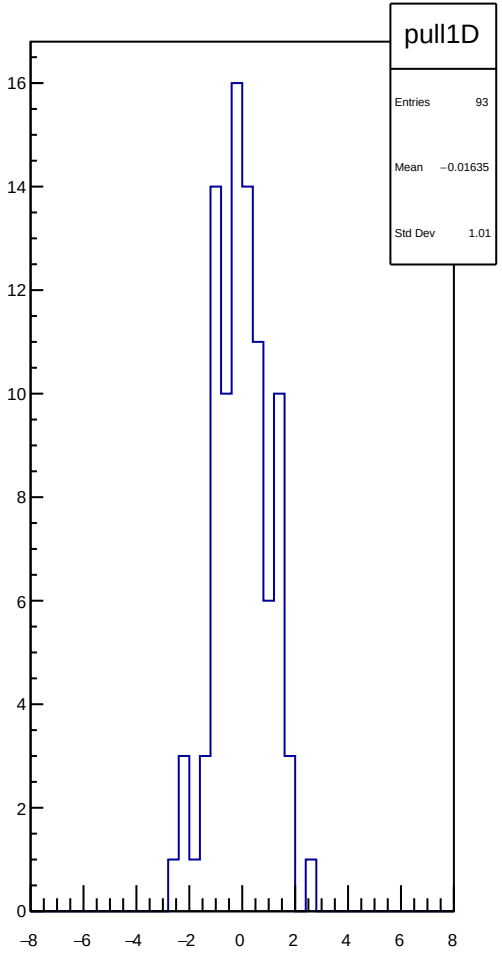

pull1D
Entries 93
Mean 0.02952
Std Dev 0.9859

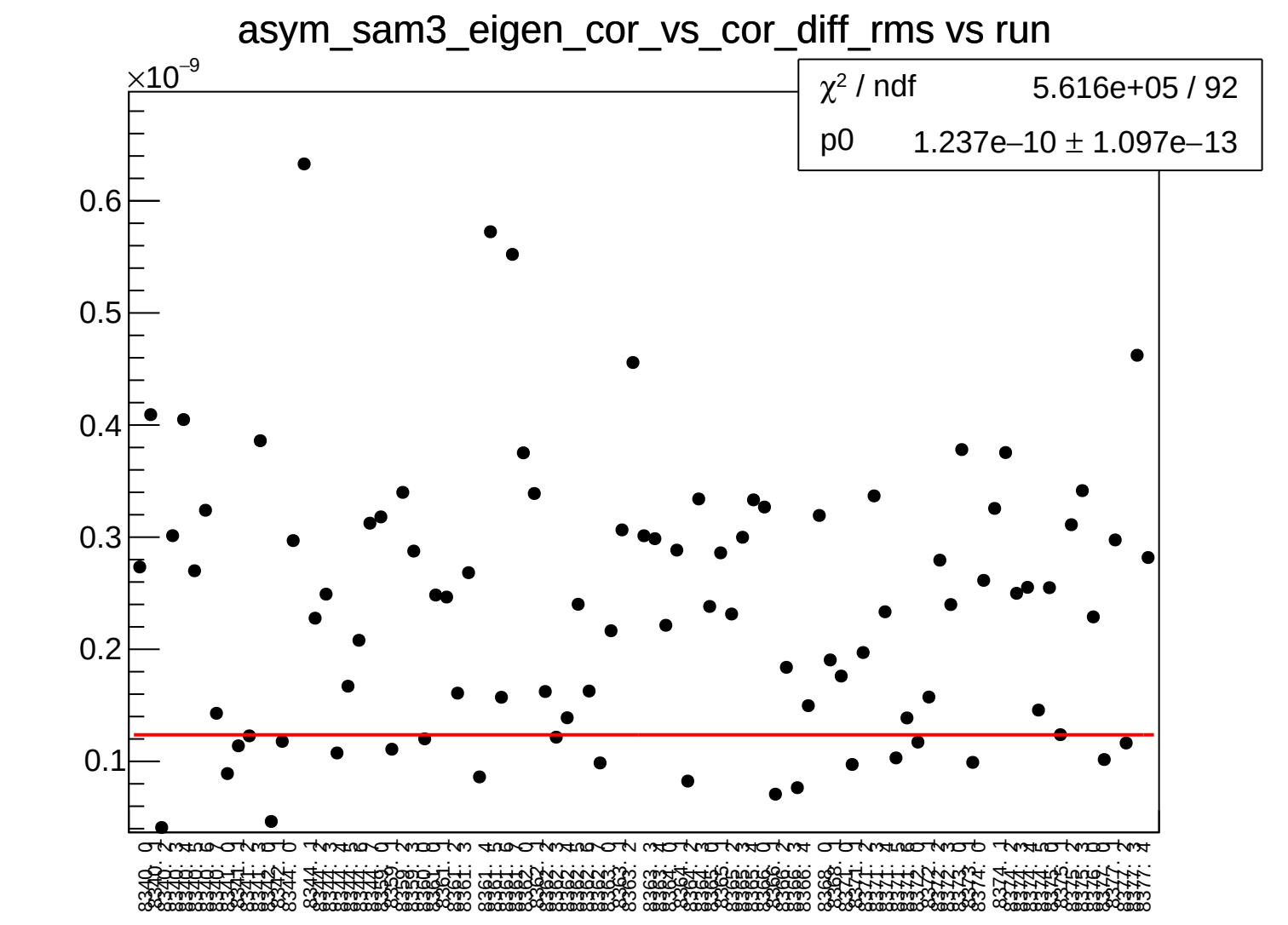

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.619e+05 / 92
p0 60.42 ± 0.04673
250
200
150
100
50

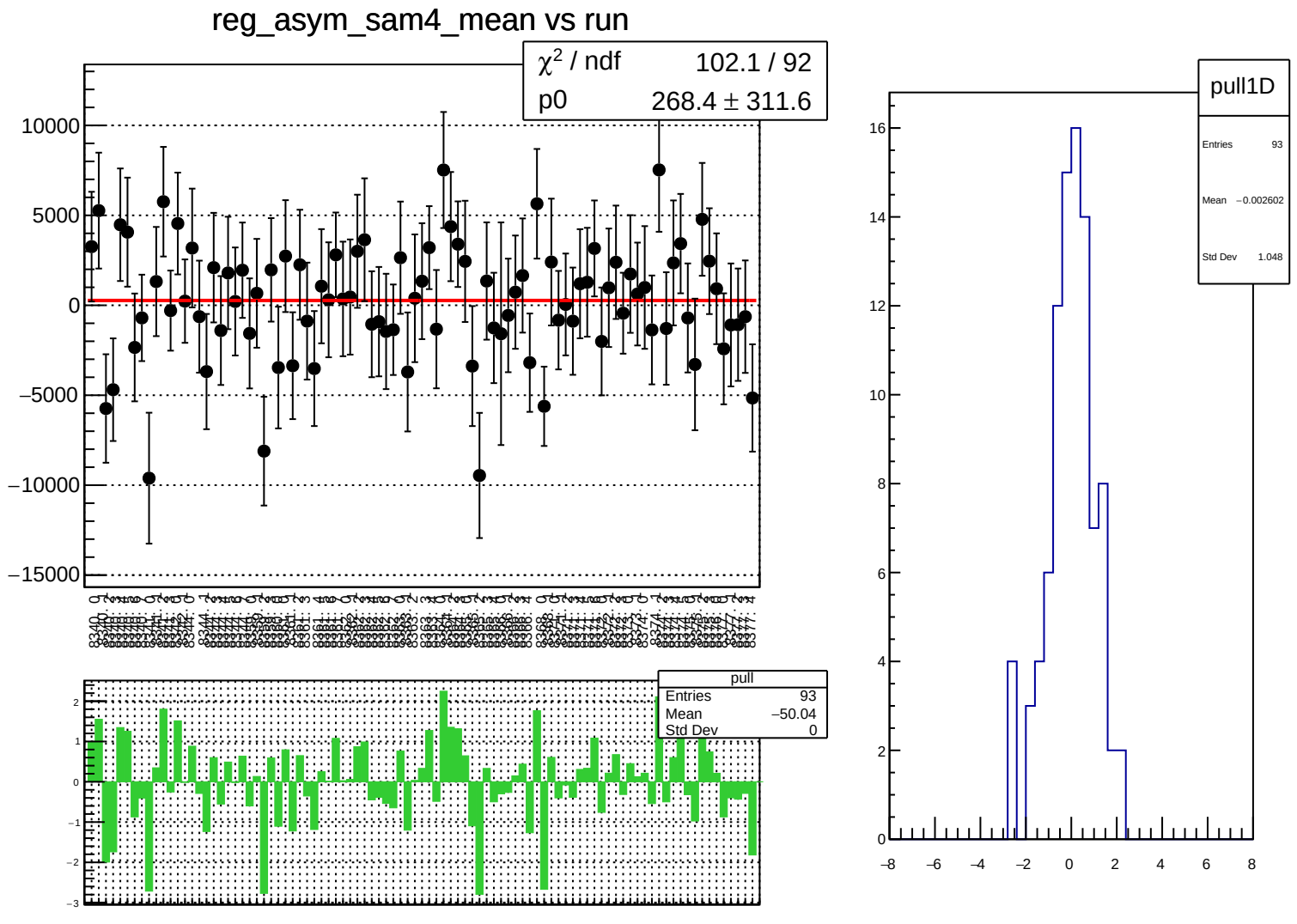

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.48 / 92
p0 −0.2717 ± 0.06609
pull
Entries 93
Mean 77.15
Std Dev 0
pull1D
Entries 93
Mean 0.02952
Std Dev 0.9859

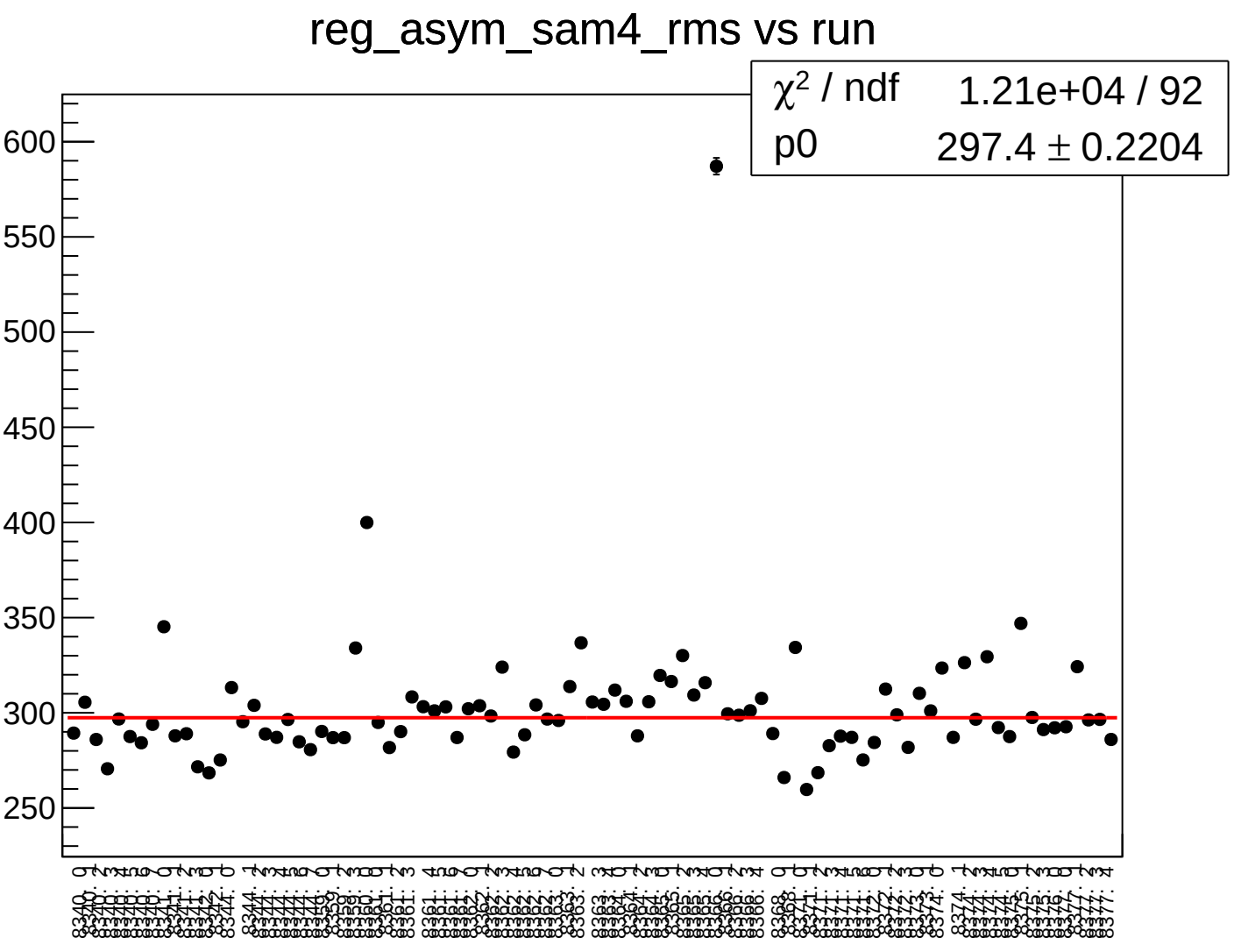

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.619e+05 / 92
p0 60.42 ± 0.04673
250
200
150
100
50

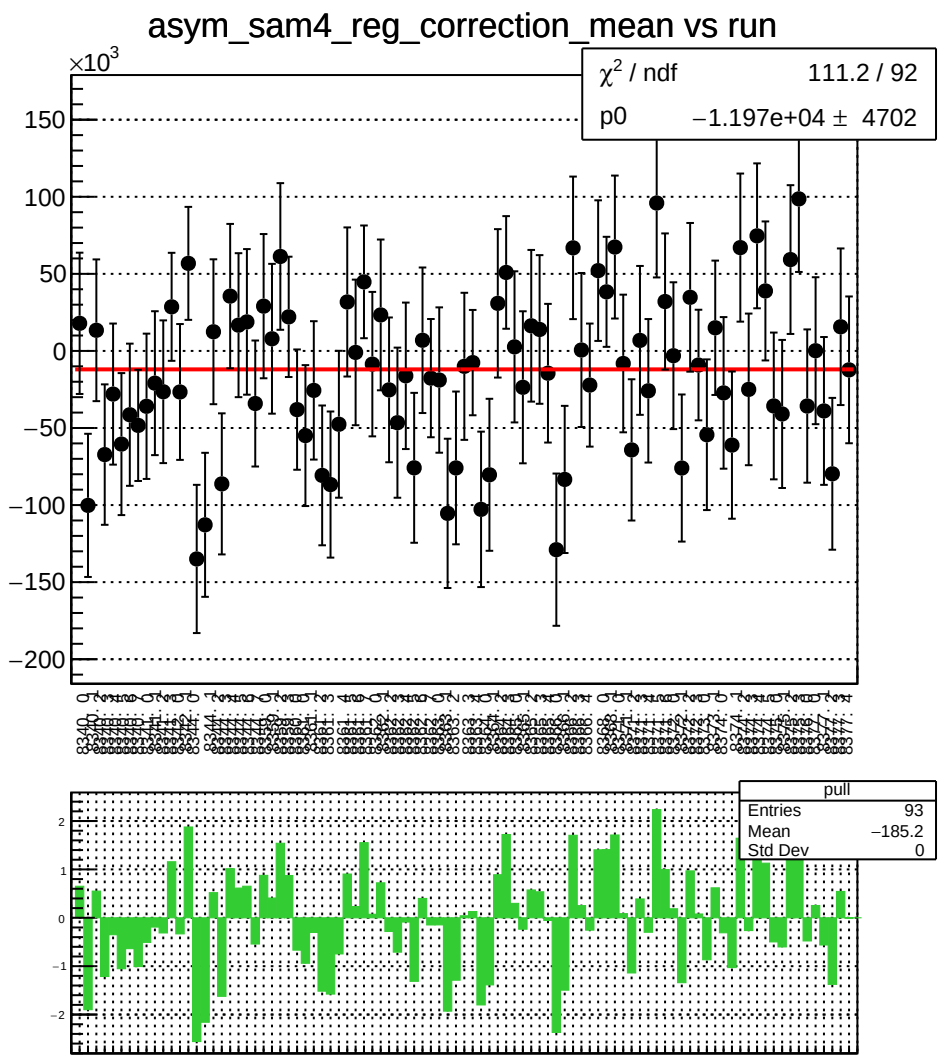

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.85 / 92
p0 2.219e−13 ± 1.551e−13
pull
Entries 93
Mean 21.47
Std Dev 76.09

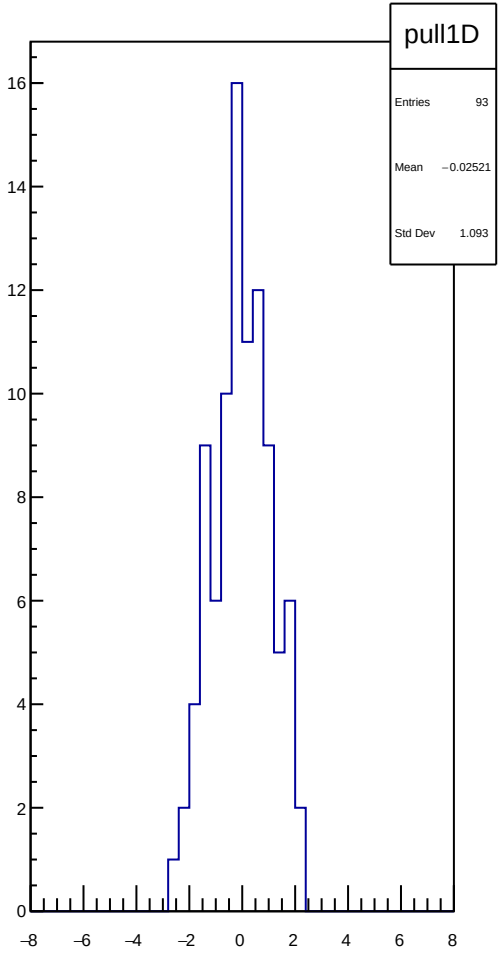

pull1D
Entries 93
Mean −0.01635
Std Dev 1.01

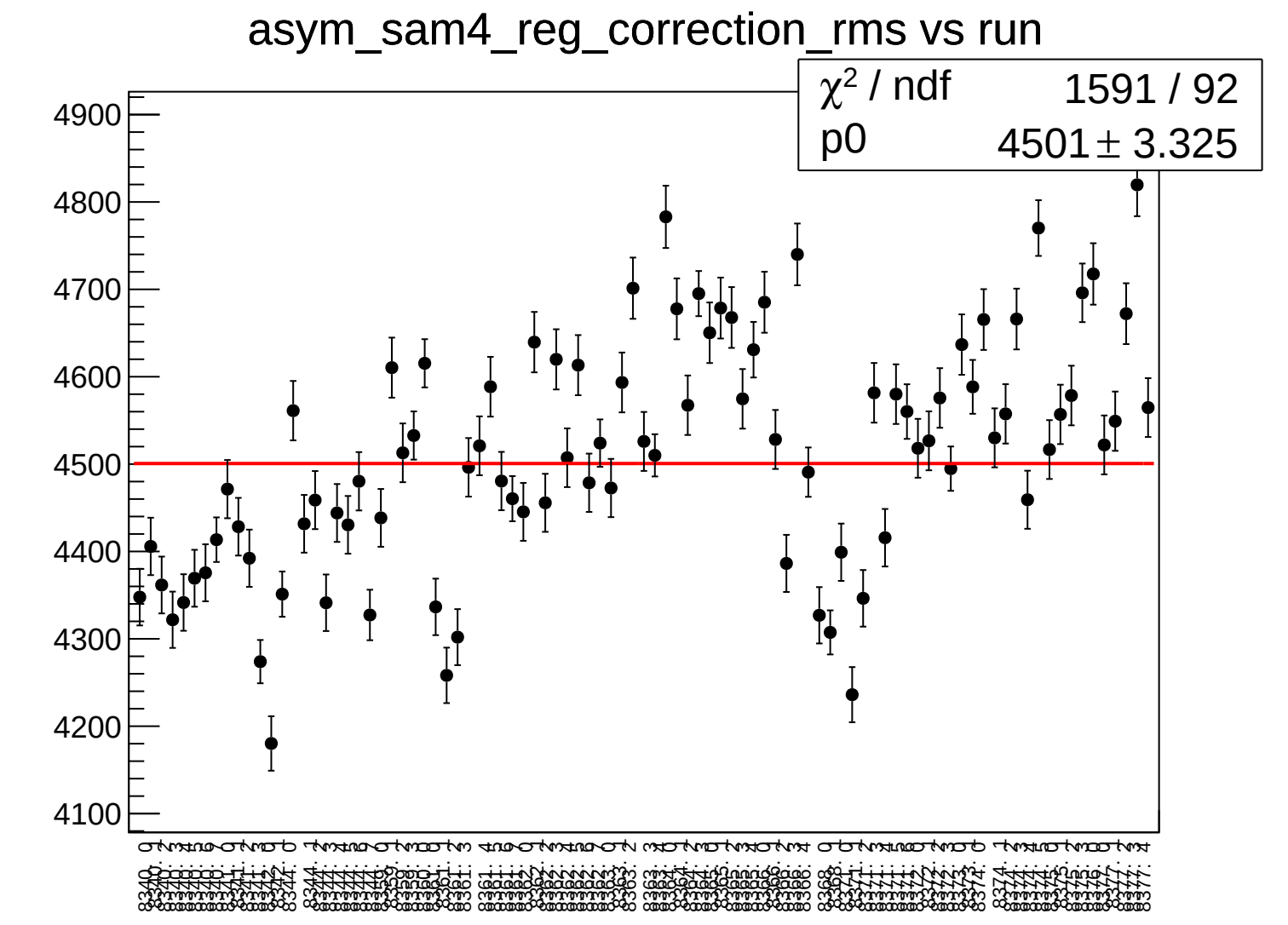

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.616e+05 / 92
p0 1.237e−10 ± 1.097e−13
0.6
0.5
0.4
0.3
0.2
0.1

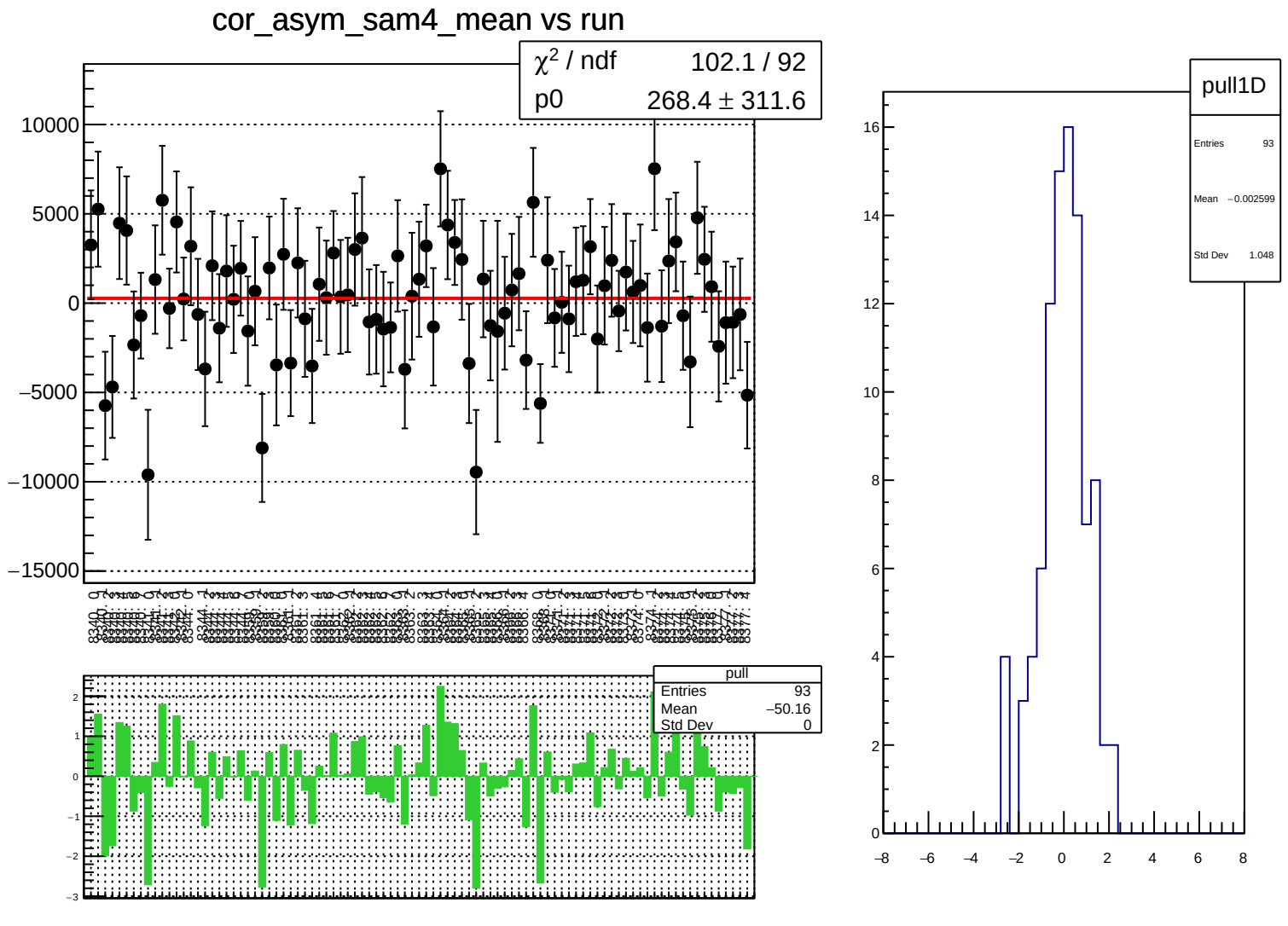

reg_asym_sam4_mean vs run
χ² / ndf 102.1 / 92
p0 268.4 ± 311.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −50.04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002602
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

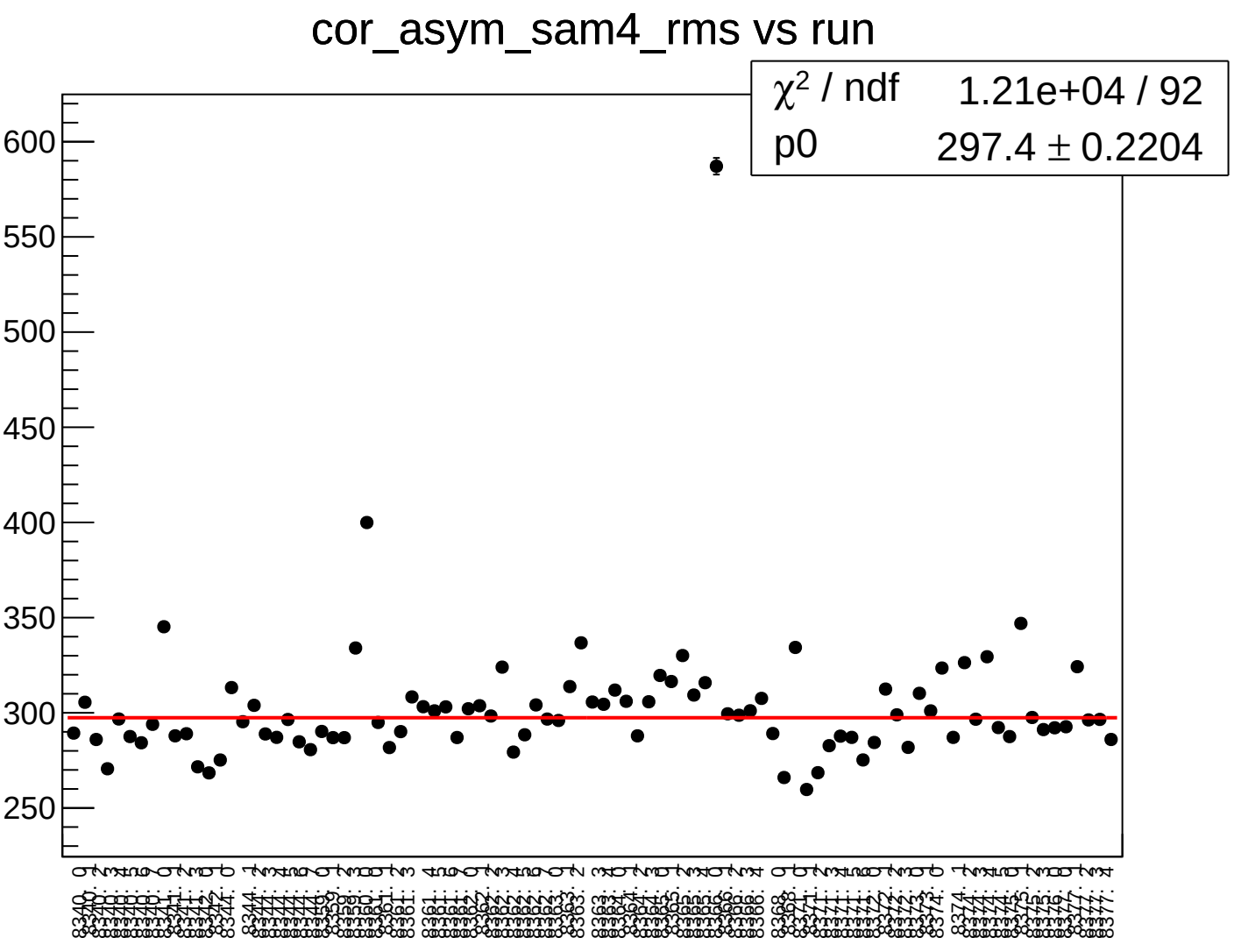

reg_asym_sam4_rms vs run
χ² / ndf 1.21e+04 / 92
p0 297.4 ± 0.2204
600
550
500
450
400
350
300
250

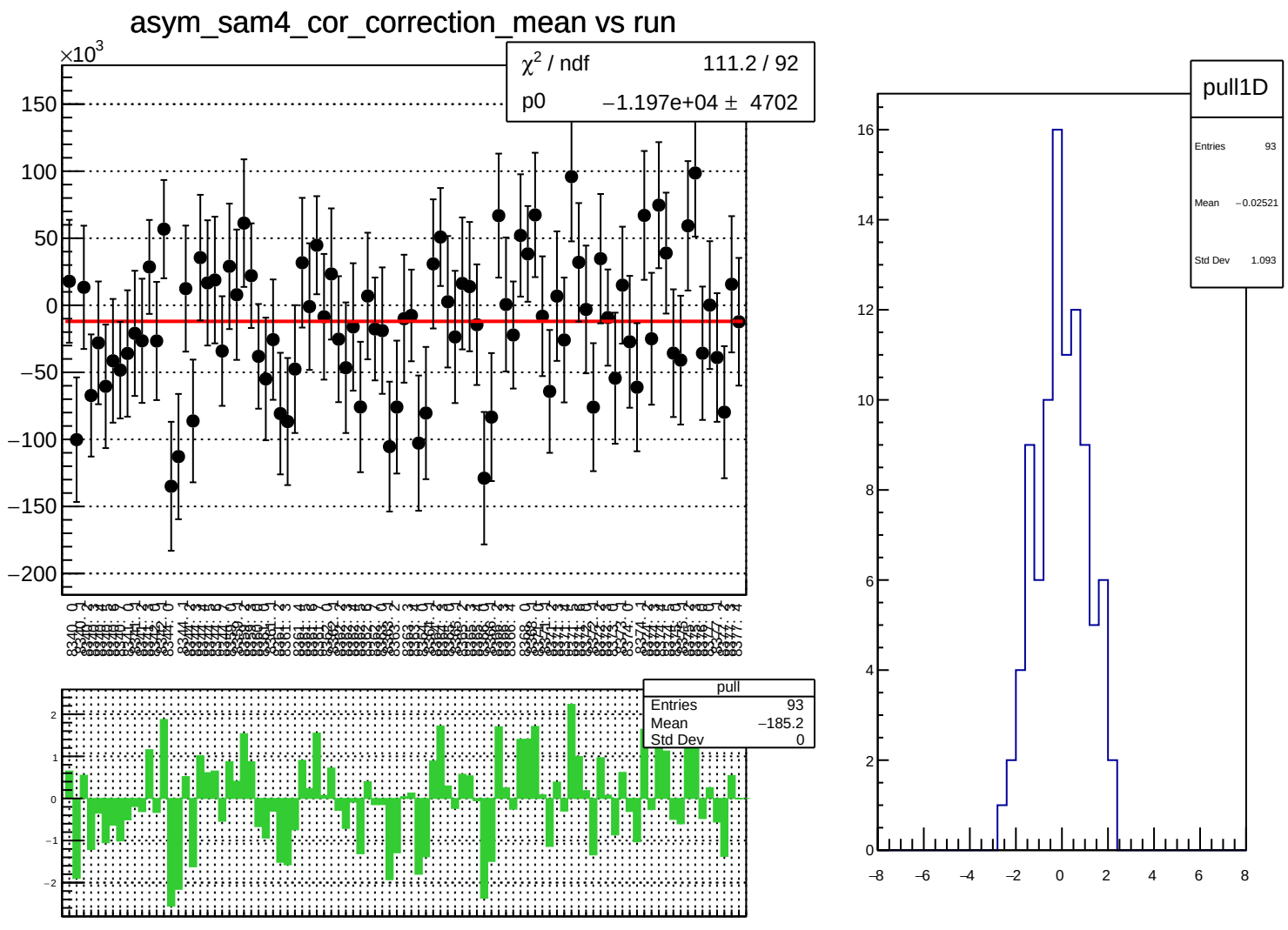

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 111.2 / 92
p0 −1.197e+04 ± 4702
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −185.2
Std Dev 0
2
1
0
−1
−2

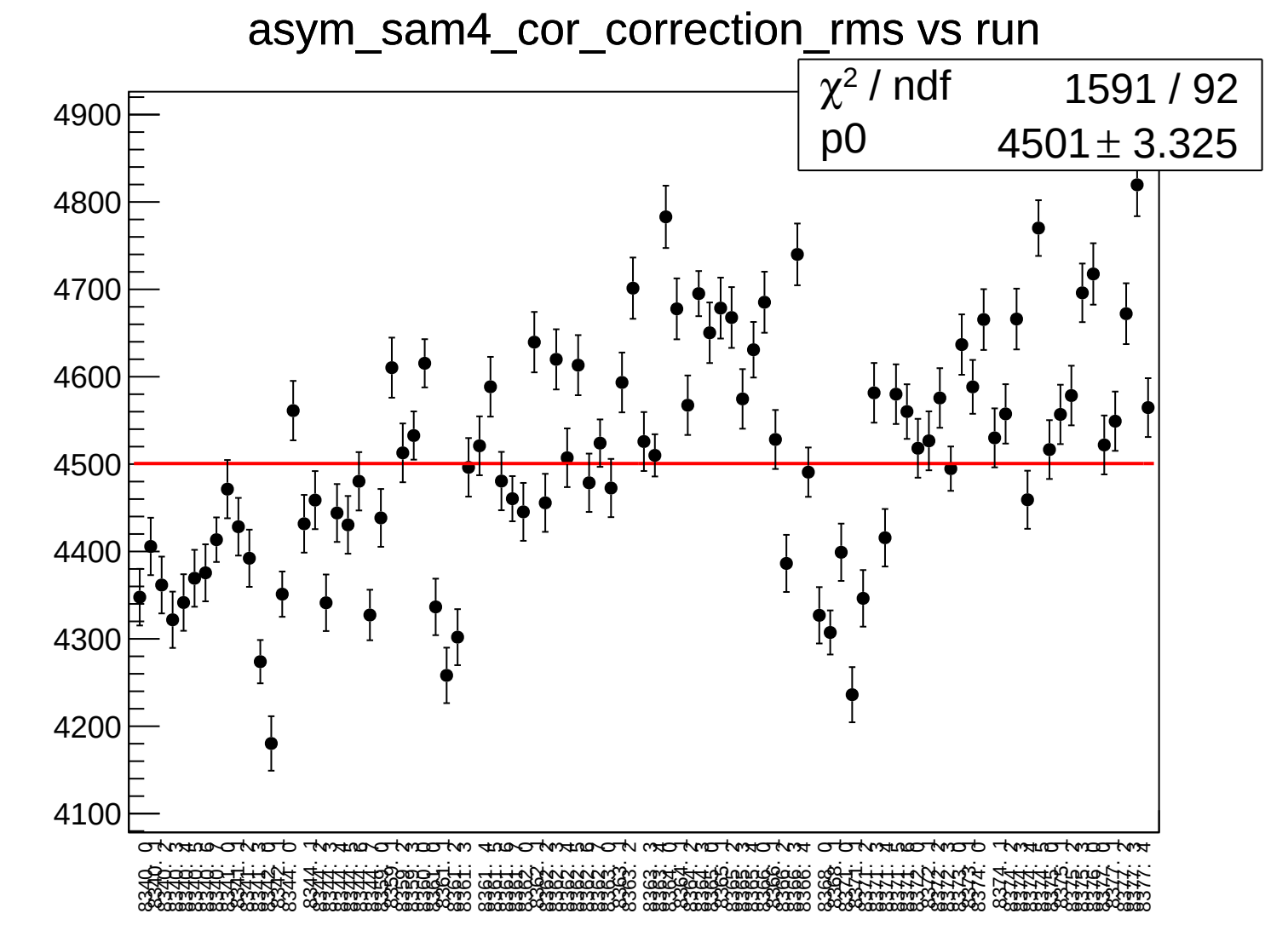

pull1D
Entries 93
Mean −0.02521
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

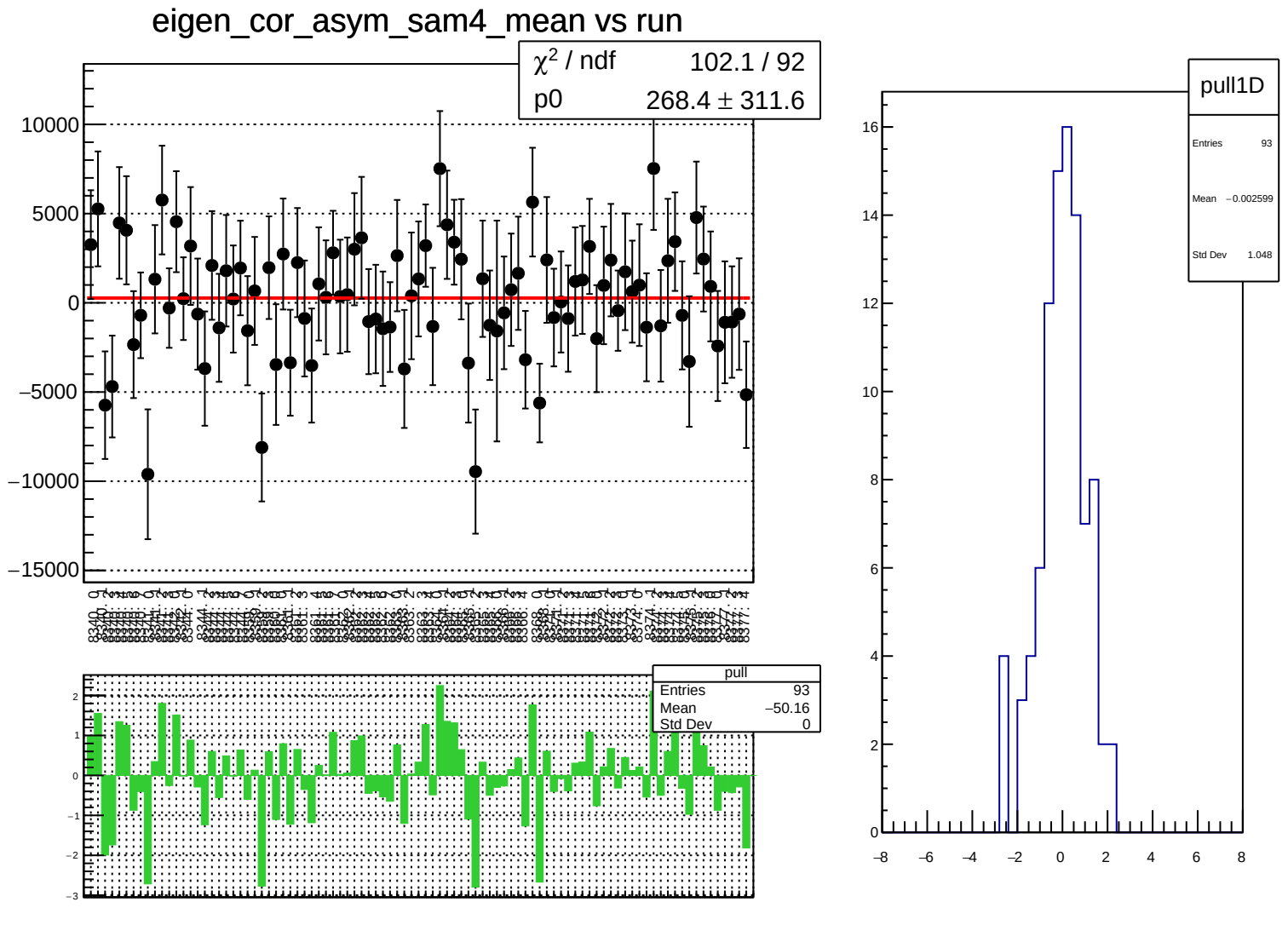

asym_sam4_reg_correction_rms vs run
χ² / ndf 1591 / 92
p0 4501 ± 3.325
4900
4800
4700
4600
4500
4400
4300
4200
4100

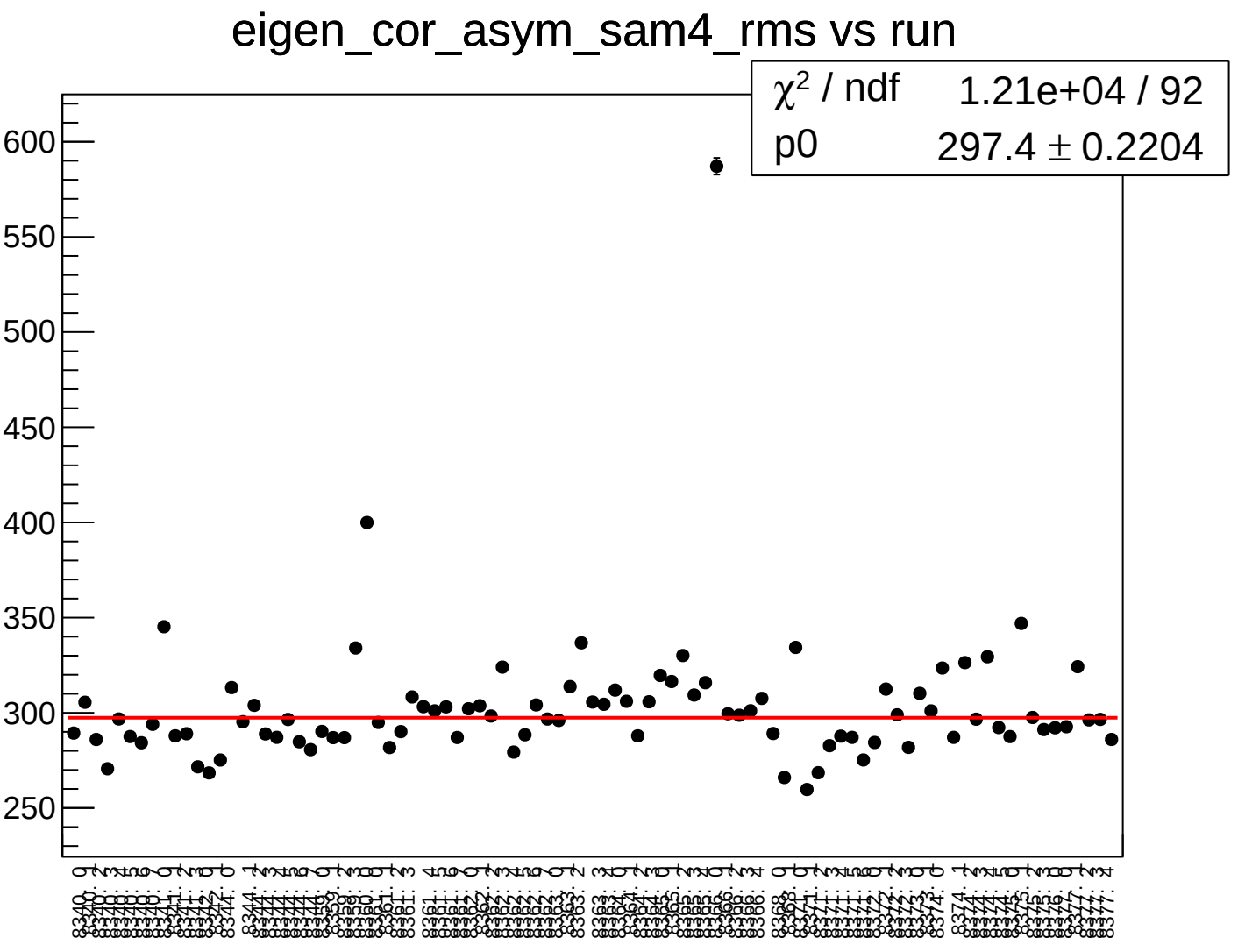

cor_asym_sam4_mean vs run
χ² / ndf 102.1 / 92
p0 268.4 ± 311.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −50.16
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.002599
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

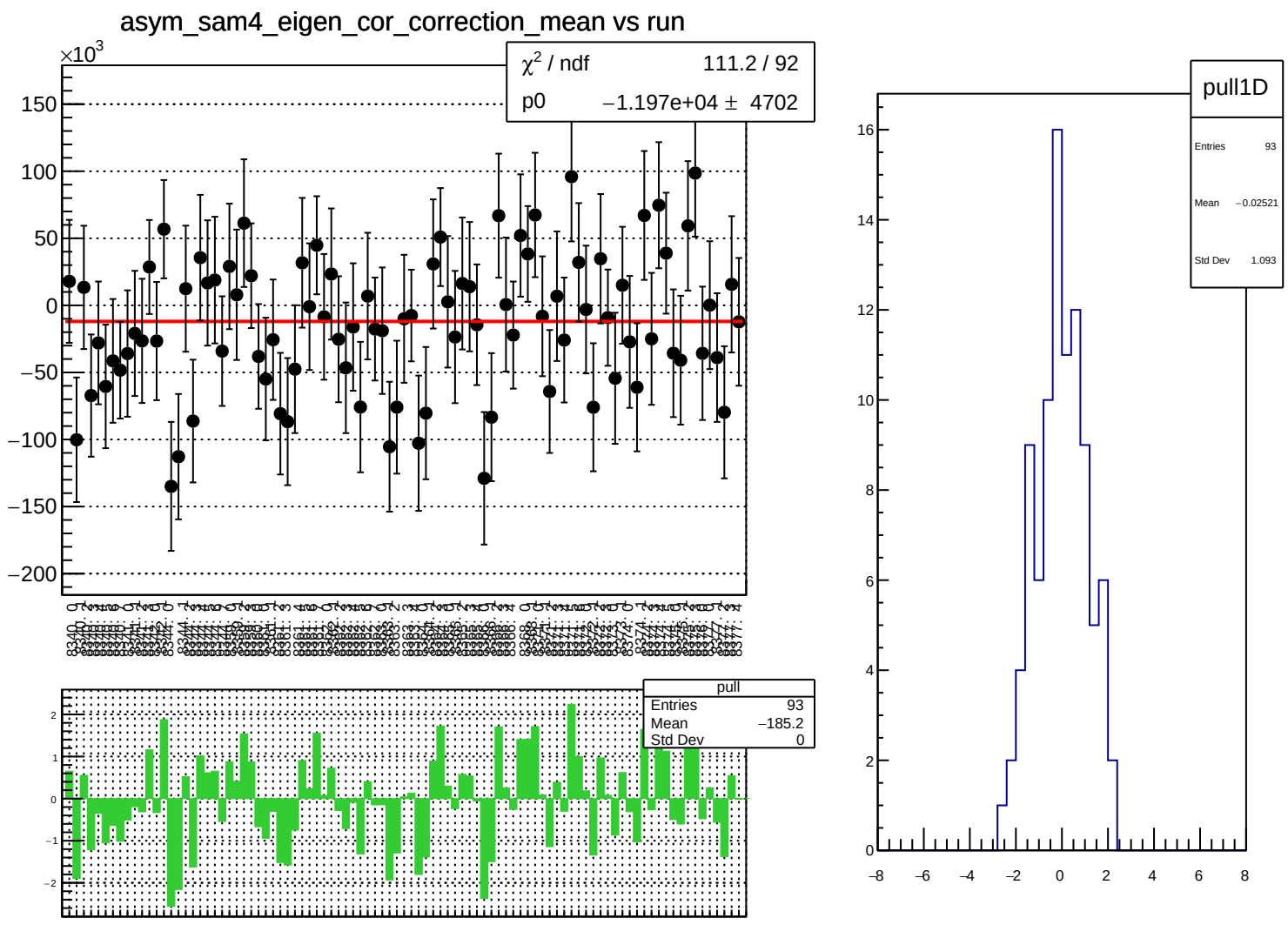

cor_asym_sam4_rms vs run
χ^2 / ndf 1.21e+04 / 92
p0 297.4 ± 0.2204
600
550
500
450
400
350
300
250

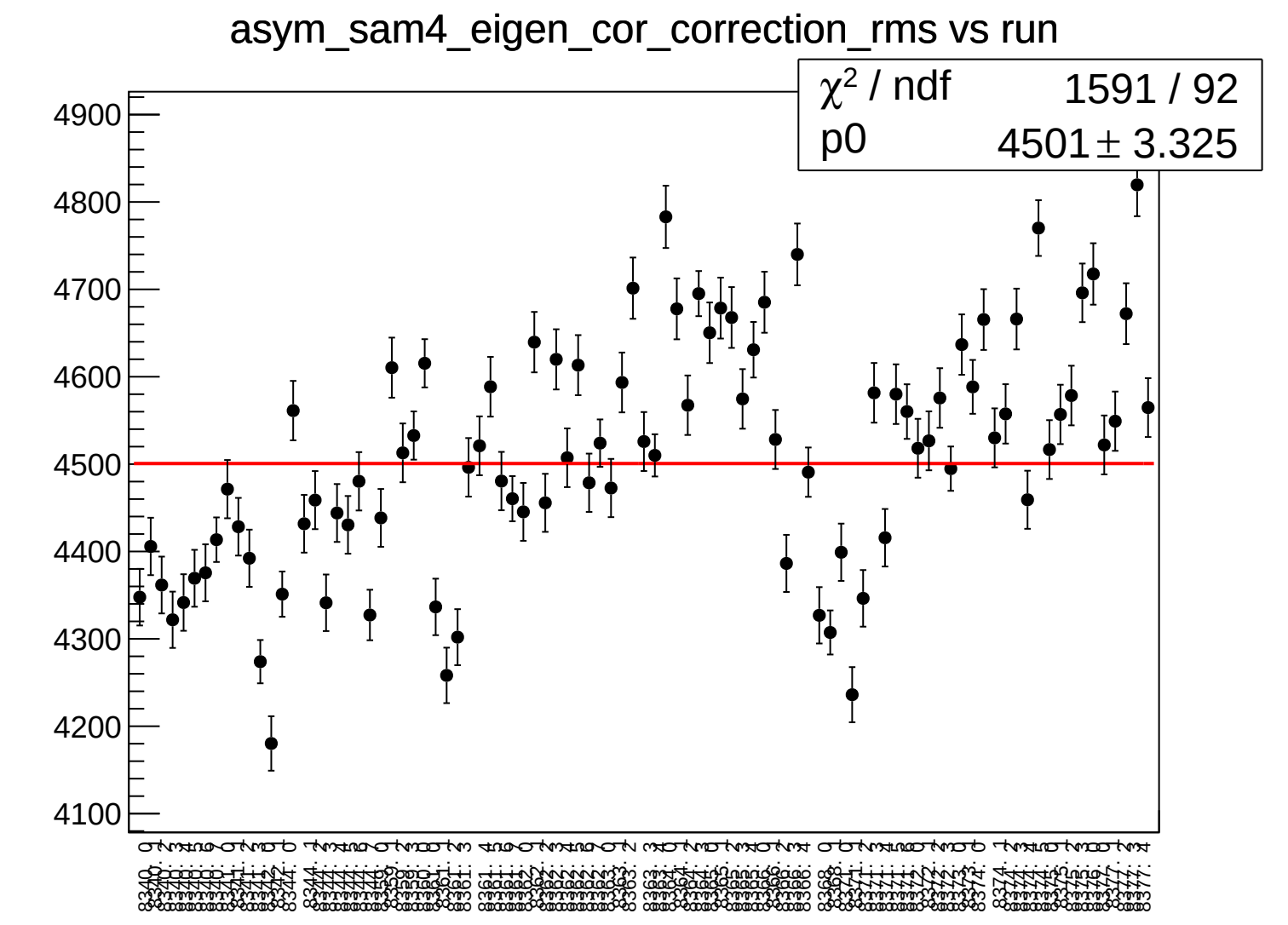

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 111.2 / 92
p0 −1.197e+04 ± 4702
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −185.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02521
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

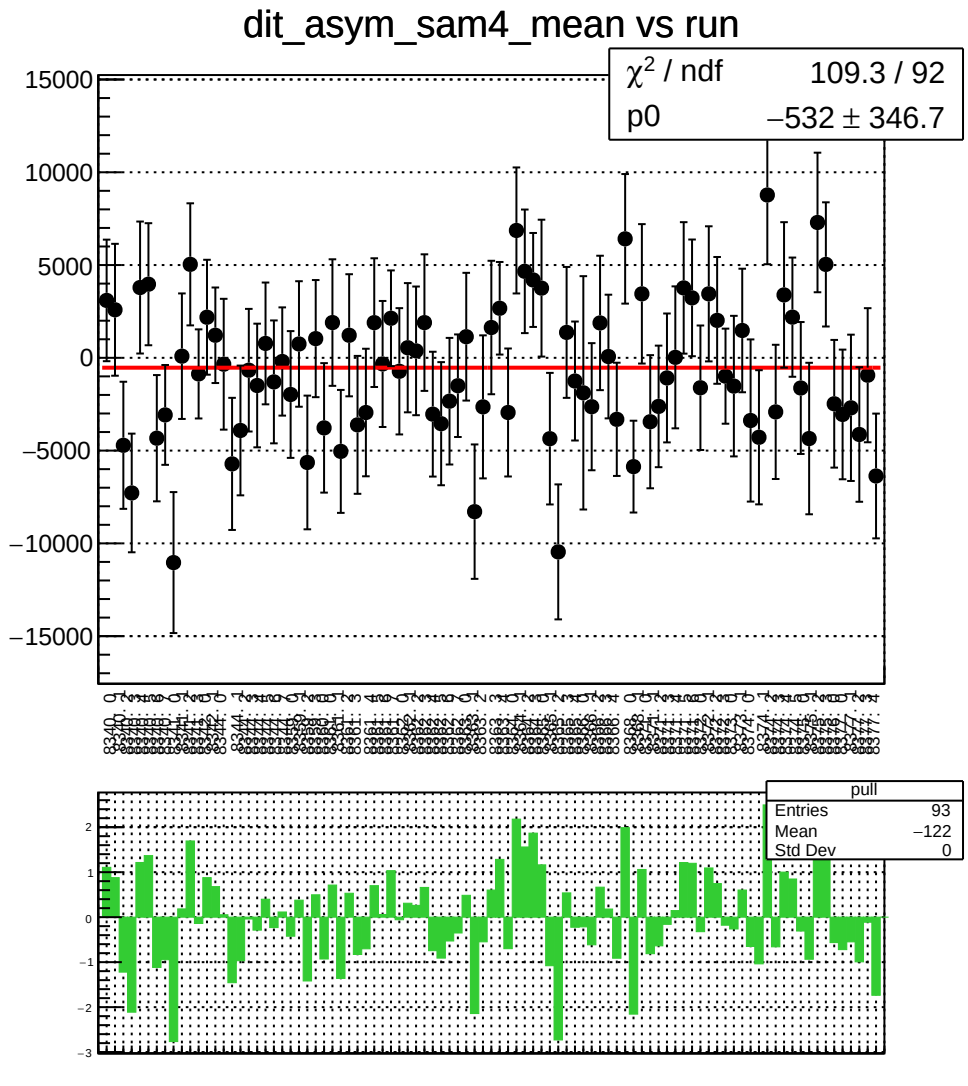

asym_sam4_cor_correction_rms vs run
χ² / ndf 1591 / 92
p0 4501 ± 3.325
4900
4800
4700
4600
4500
4400
4300
4200
4100

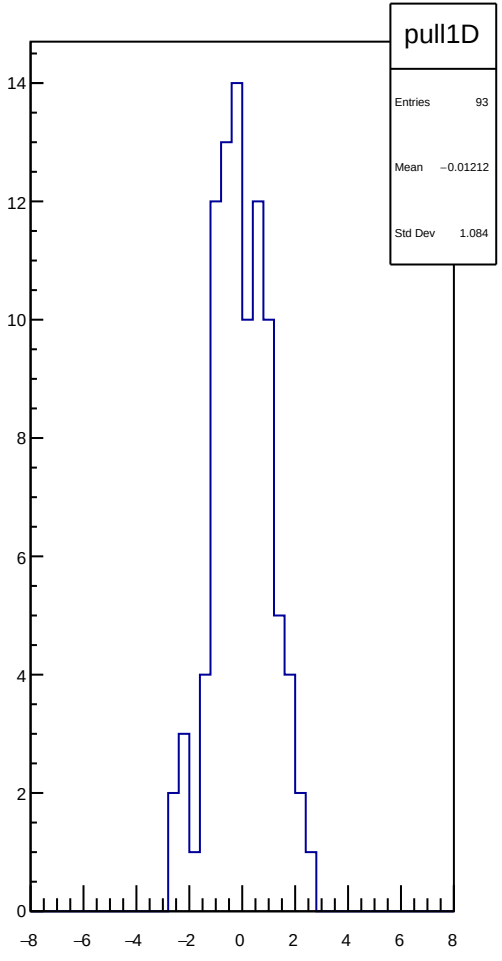

eigen_cor_asym_sam4_mean vs run
χ² / ndf 102.1 / 92
p0 268.4 ± 311.6
pull
Entries 93
Mean −50.16
Std Dev 0
pull1D
Entries 93
Mean −0.002599
Std Dev 1.048

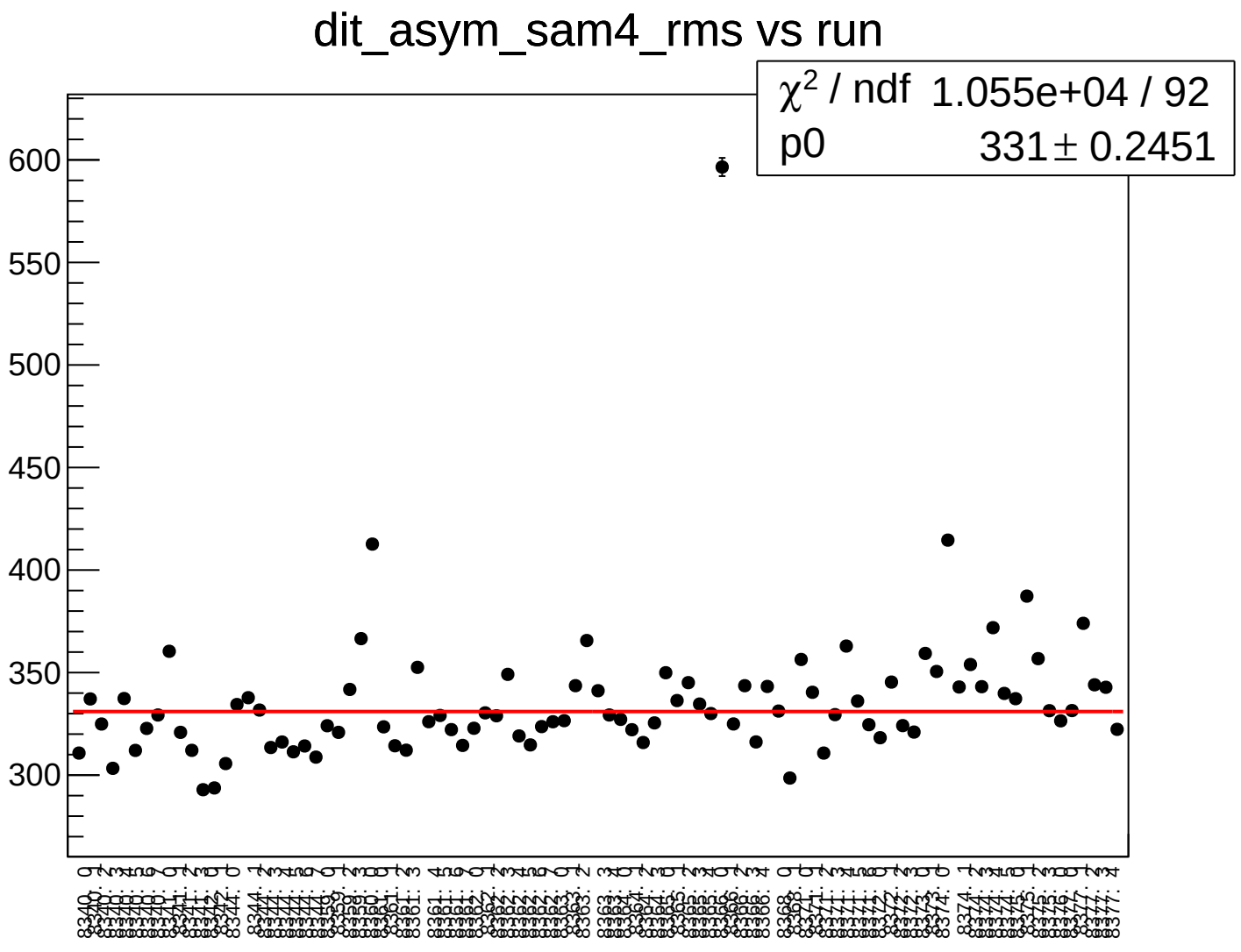

eigen_cor_asym_sam4_rms vs run
χ^2 / ndf 1.21e+04 / 92
p0 297.4 ± 0.2204
600
550
500
450
400
350
300
250

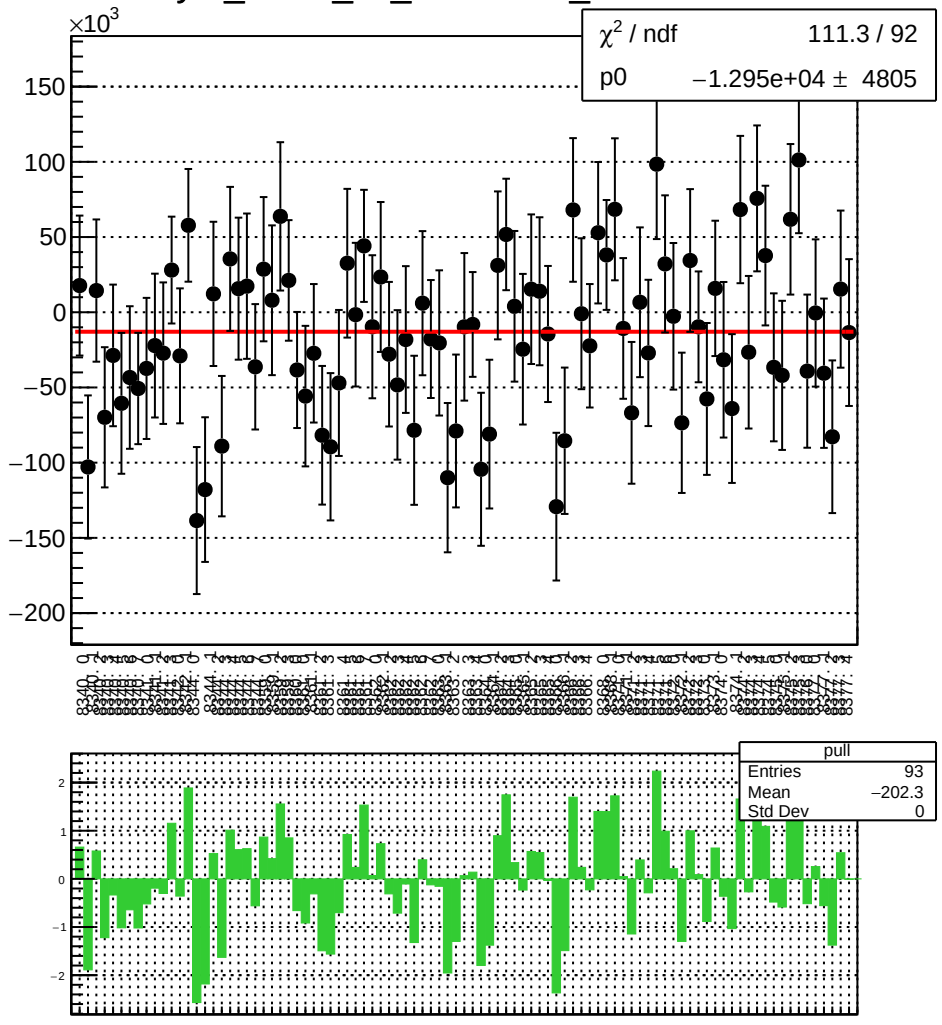

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.2 / 92
p0 −1.197e+04 ± 4702
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −185.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02521
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

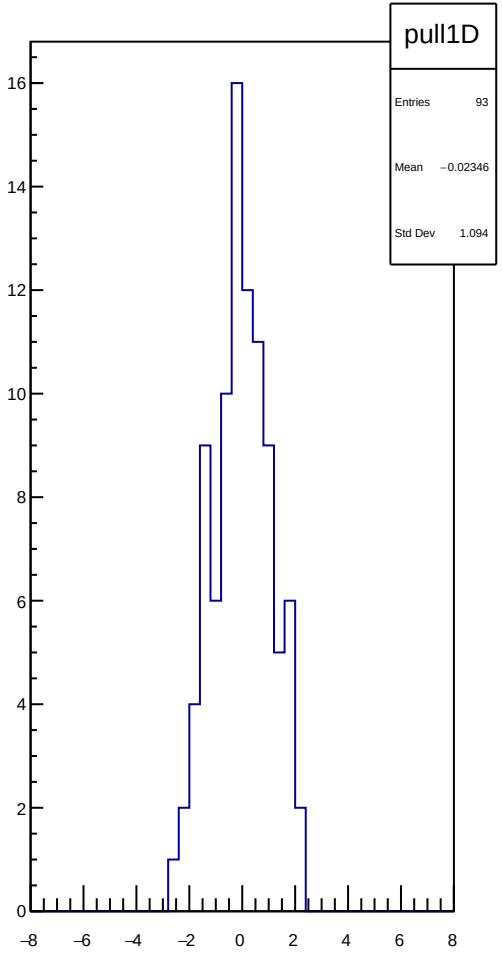

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1591 / 92
p0 4501 ± 3.325
4900
4800
4700
4600
4500
4400
4300
4200
4100

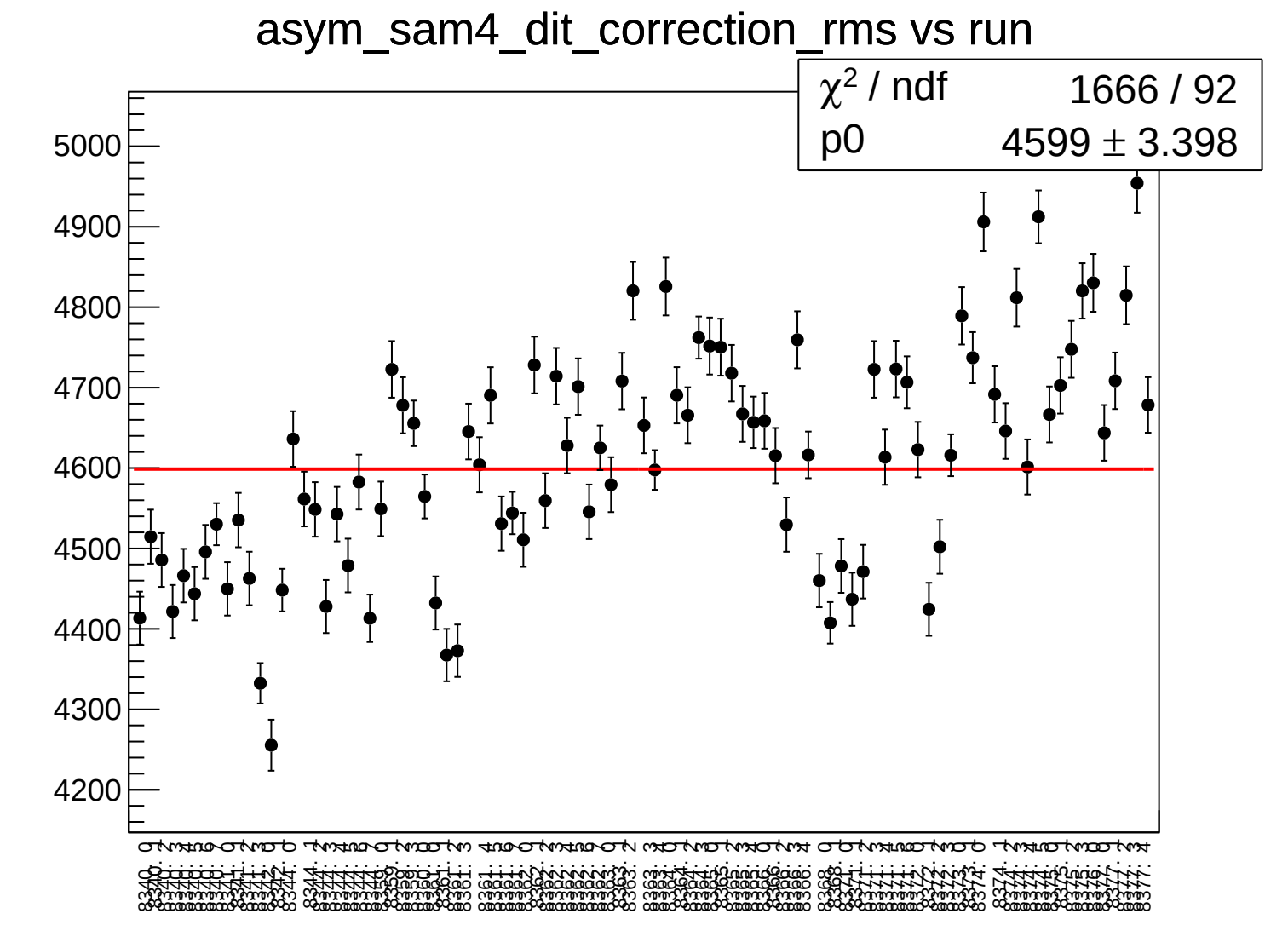

dit_asym_sam4_mean vs run
χ² / ndf 109.3 / 92
p0 −532 ± 346.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −122
Std Dev 0
2
1
0
−1
−2
−3

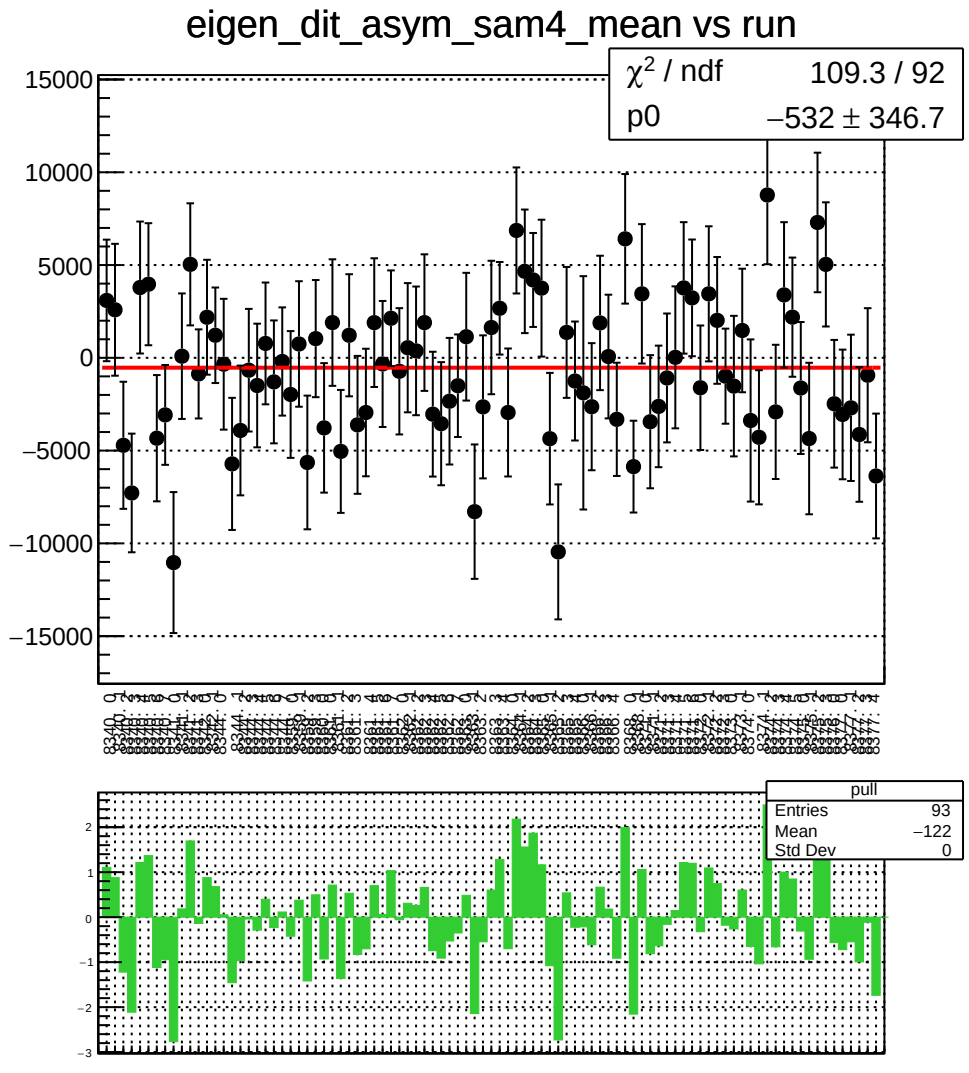

pull1D
Entries 93
Mean −0.01212
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

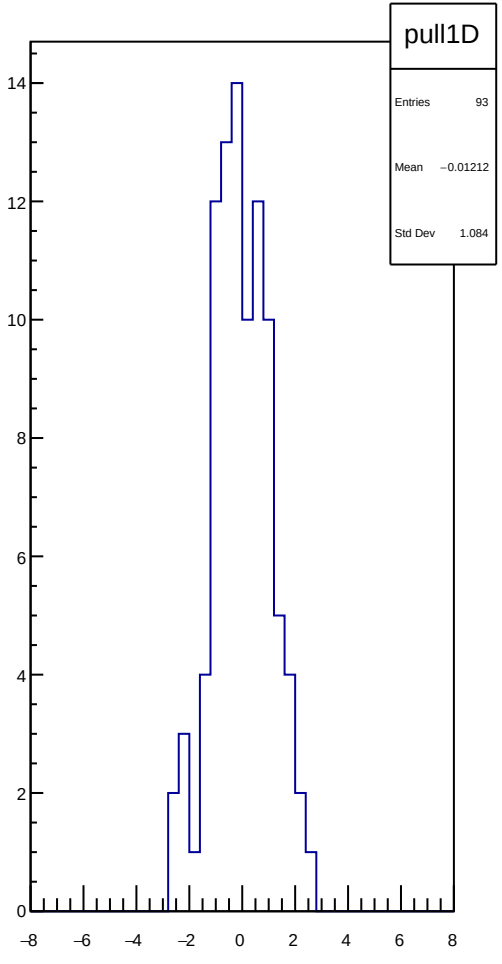

dit_asym_sam4_rms vs run
χ^2 / ndf 1.055e+04 / 92
p0 331 ± 0.2451
600
550
500
450
400
350
300

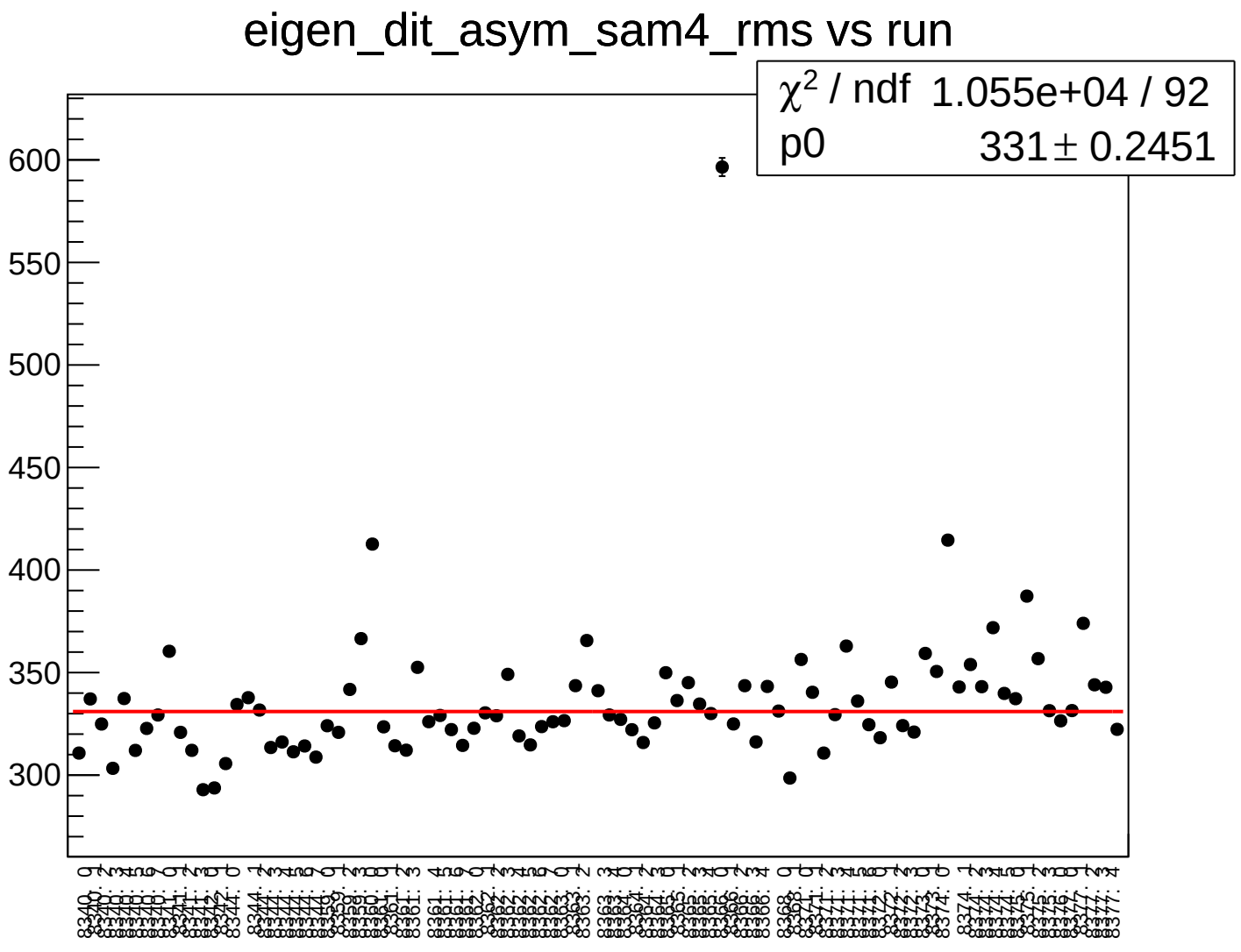

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 111.3 / 92
p0 −1.295e+04 ± 4805
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −202.3
Std Dev 0
2
1
0
−1
−2

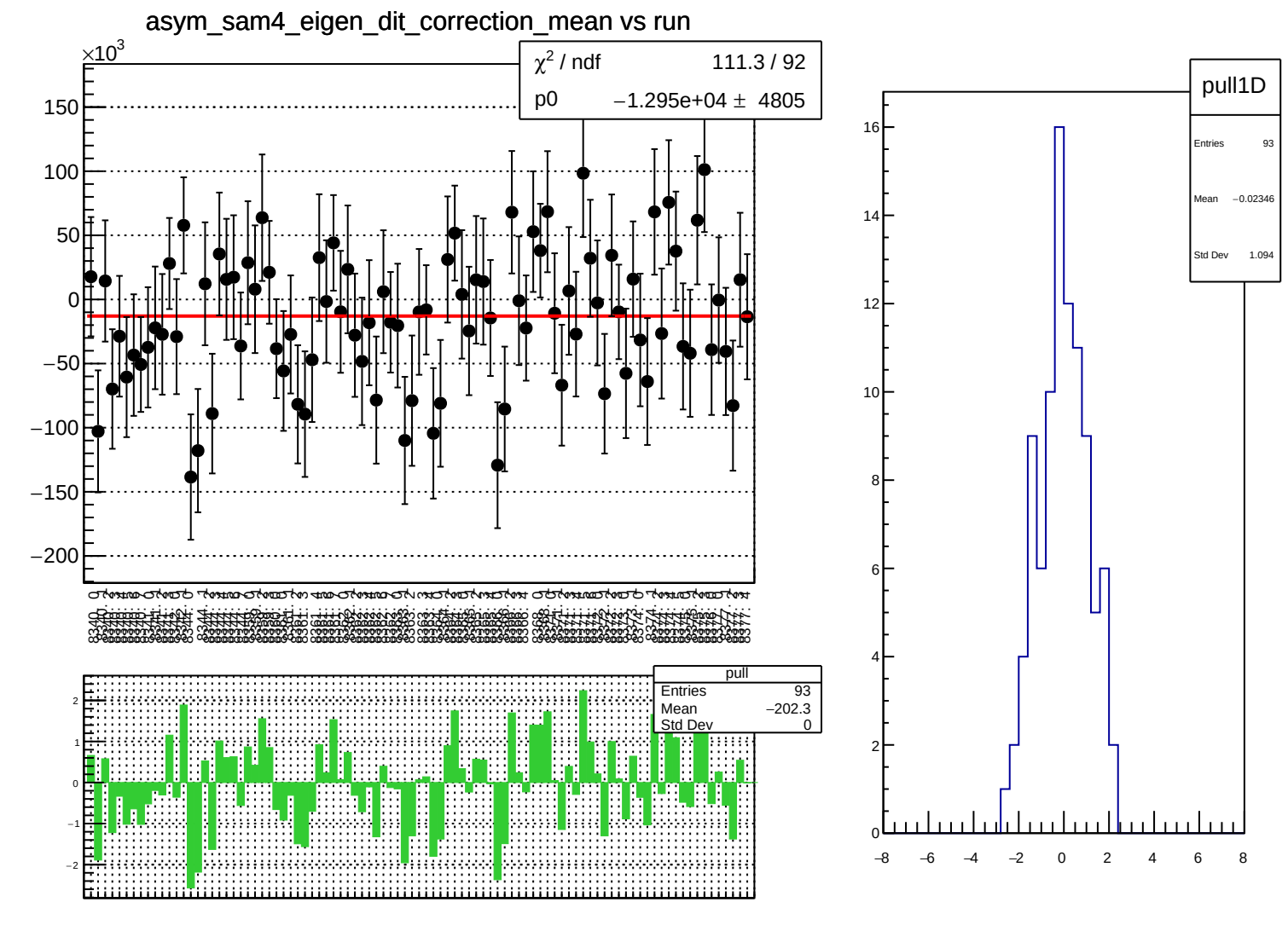

pull1D
Entries 93
Mean −0.02346
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

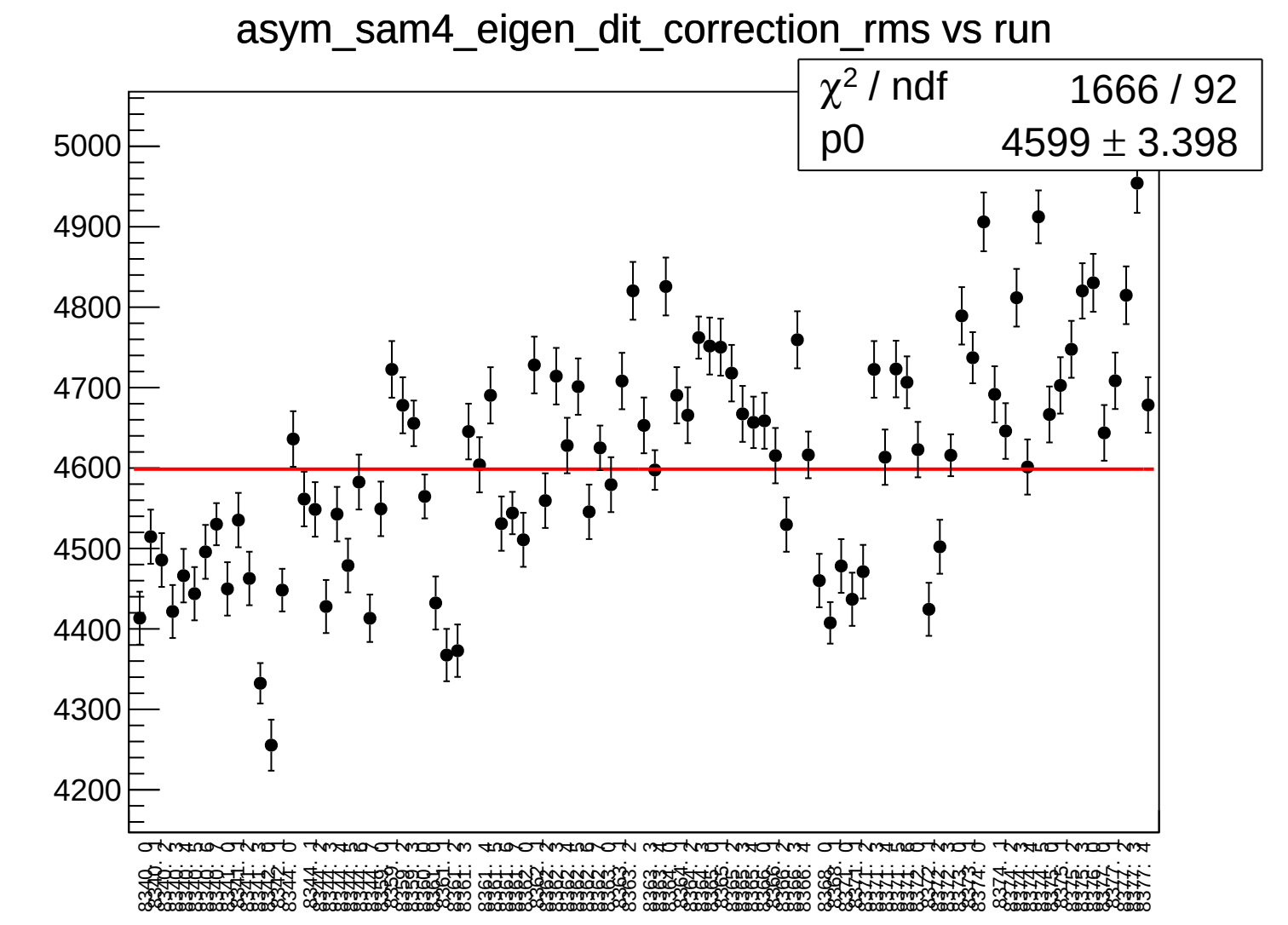

asym_sam4_dit_correction_rms vs run
χ² / ndf 1666 / 92
p0 4599 ± 3.398
5000
4900
4800
4700
4600
4500
4400
4300
4200

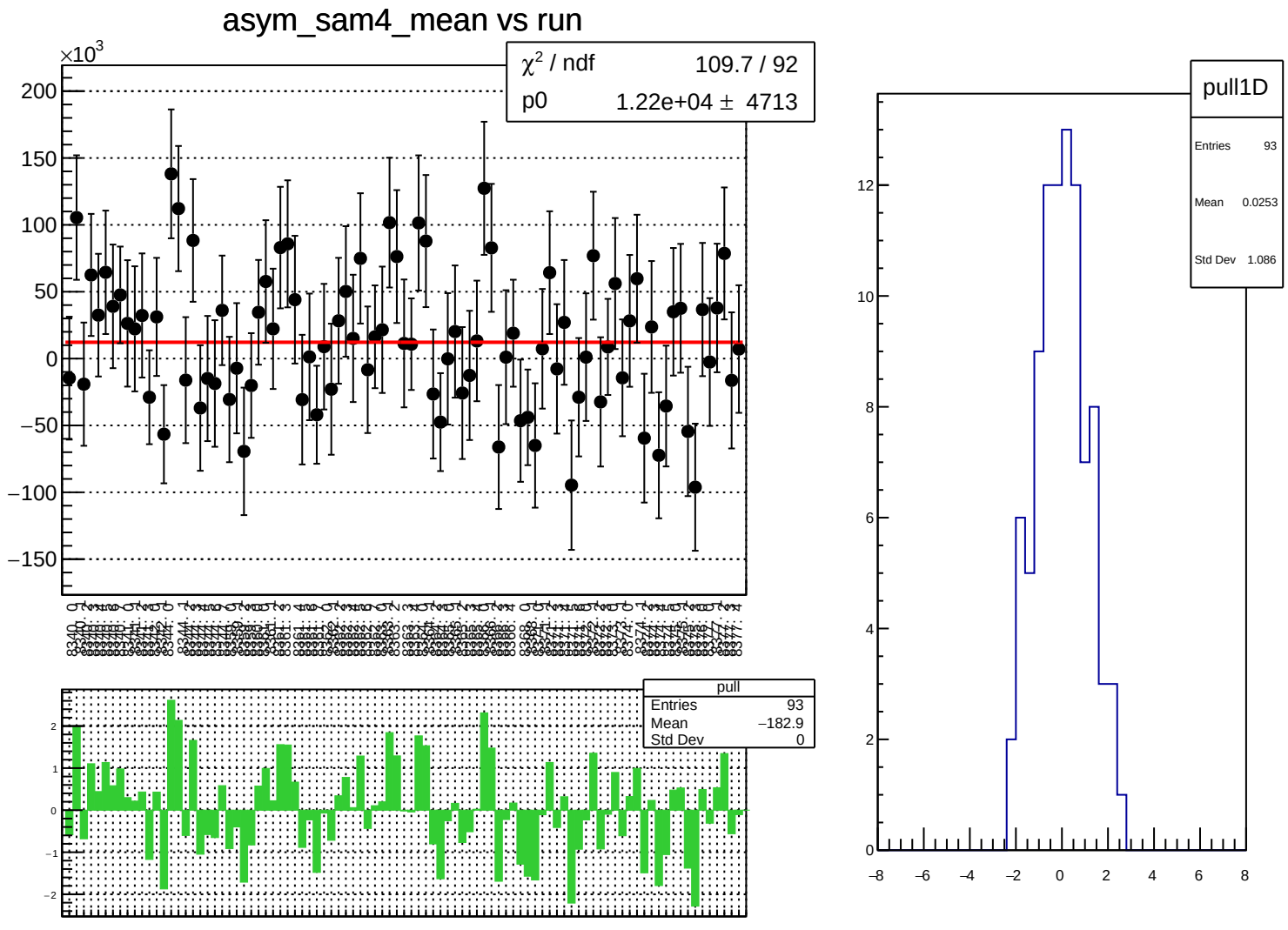

eigen_dit_asym_sam4_mean vs run
χ² / ndf 109.3 / 92
p0 −532 ± 346.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −122
Std Dev 0
2
1
0
−1
−2
−3

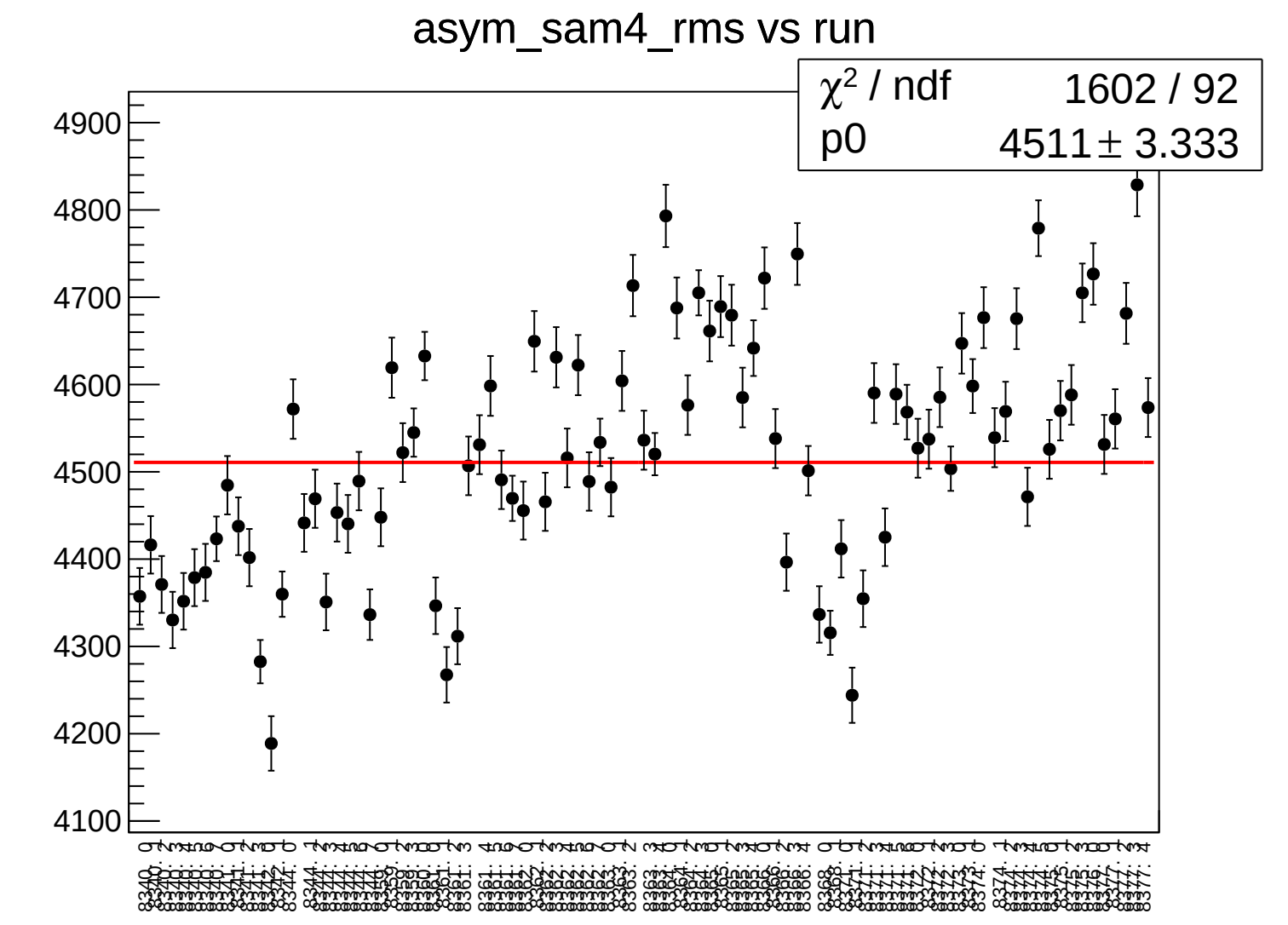

pull1D
Entries 93
Mean −0.01212
Std Dev 1.084
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

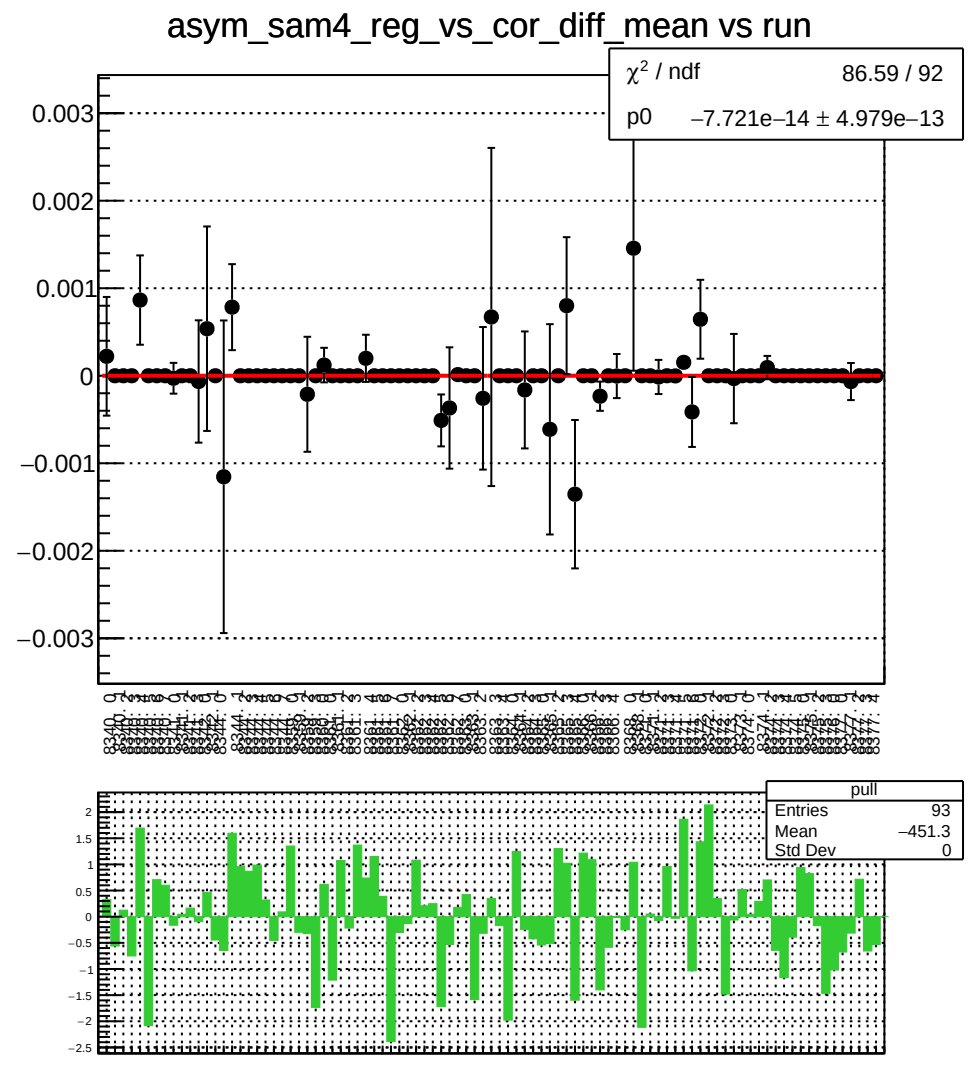

eigen_dit_asym_sam4_rms vs run
χ^2 / ndf 1.055e+04 / 92
p0 331 ± 0.2451
600
550
500
450
400
350
300

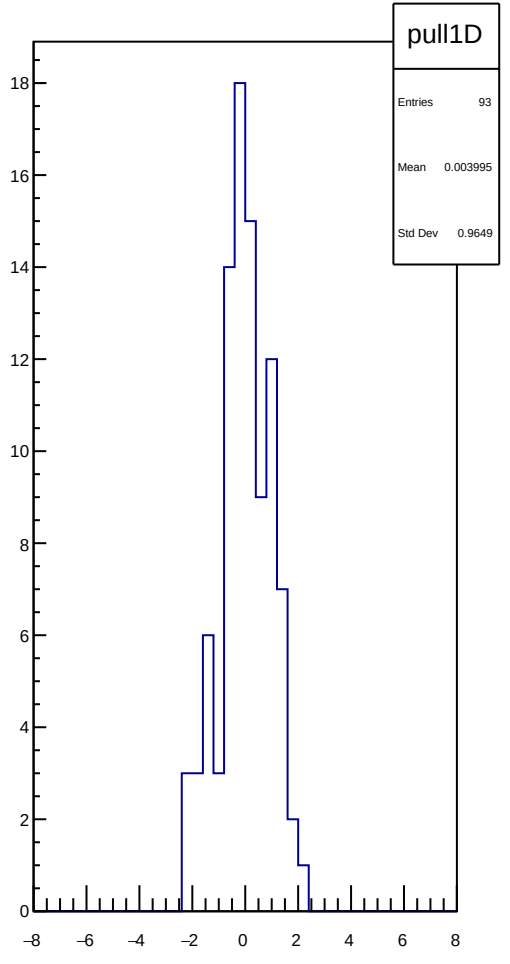

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.3 / 92
p0 −1.295e+04 ± 4805
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −202.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02346
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

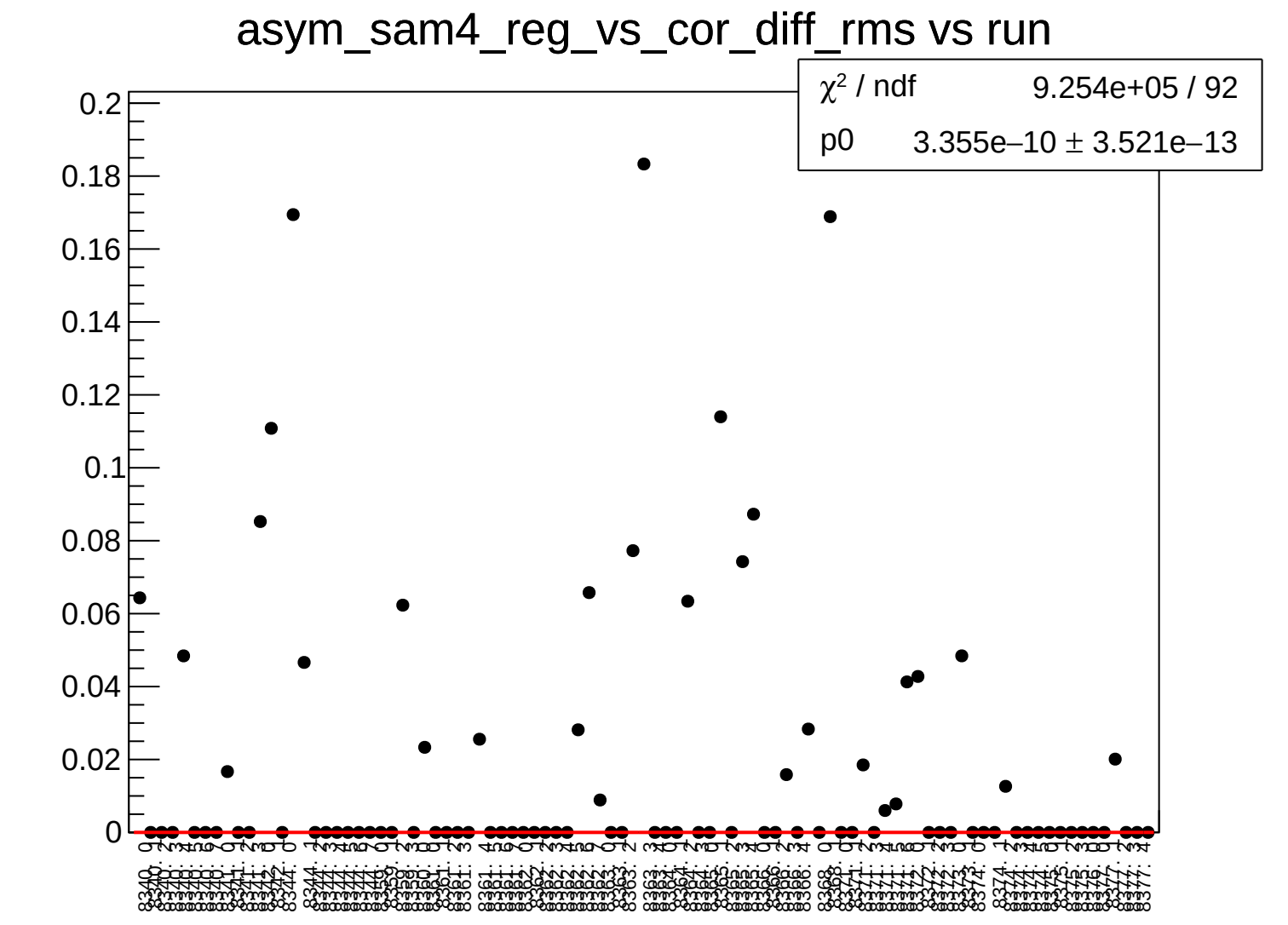

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1666 / 92
p0 4599 ± 3.398
5000
4900
4800
4700
4600
4500
4400
4300
4200

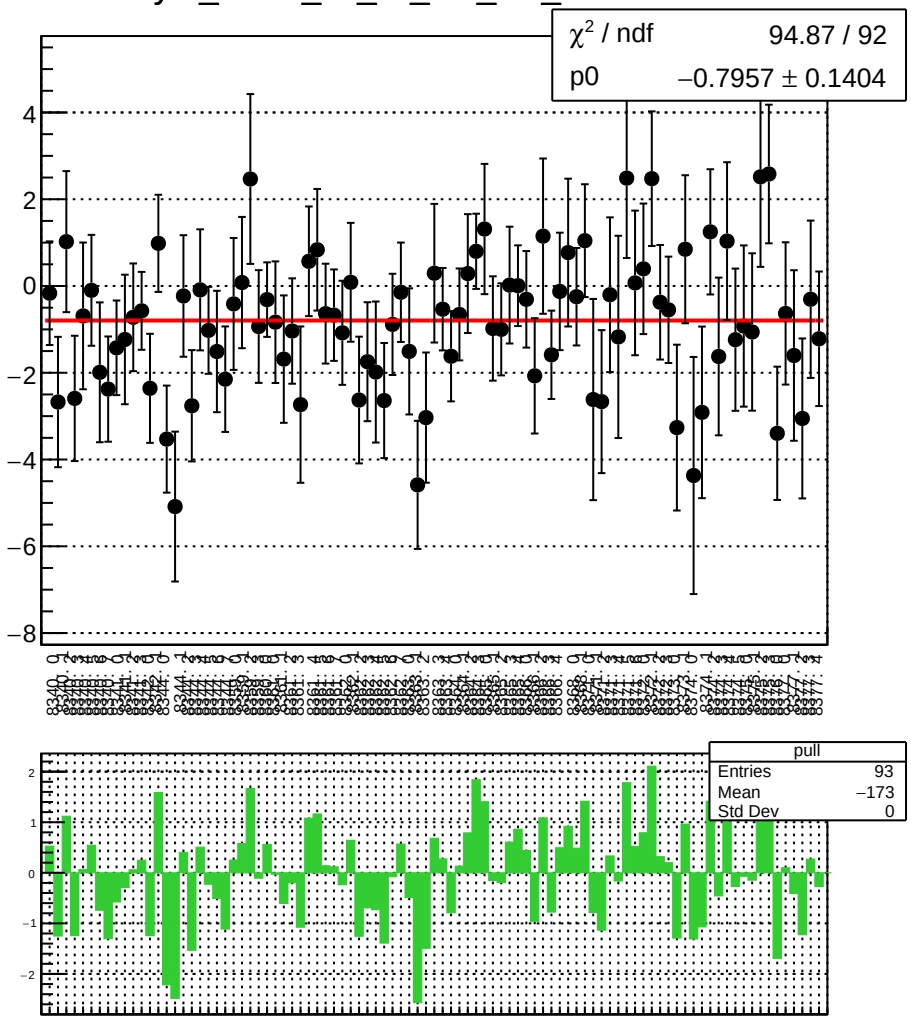

asym_sam4_mean vs run
×10^3
χ² / ndf 109.7 / 92
p0 1.22e+04 ± 4713
pull
Entries 93
Mean −182.9
Std Dev 0
pull1D
Entries 93
Mean 0.0253
Std Dev 1.086

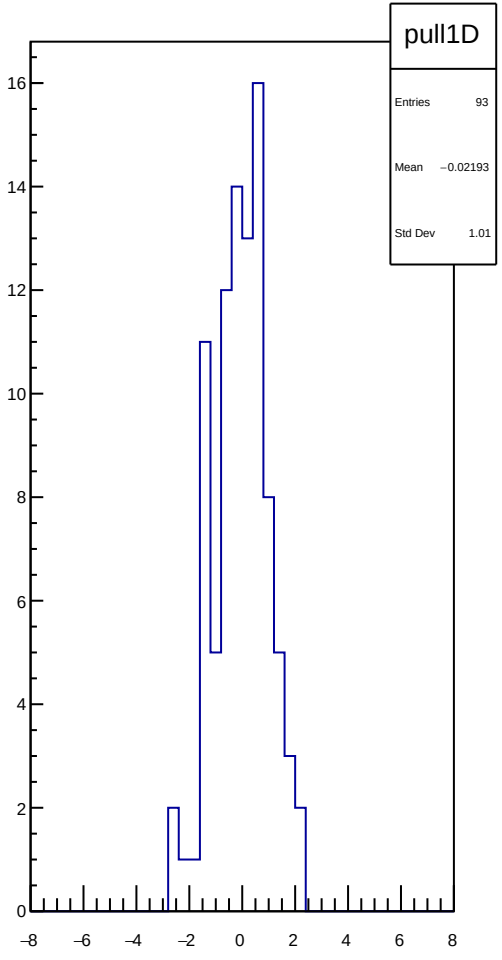

asym_sam4_rms vs run
χ² / ndf 1602 / 92
p0 4511 ± 3.333
4900
4800
4700
4600
4500
4400
4300
4200
4100

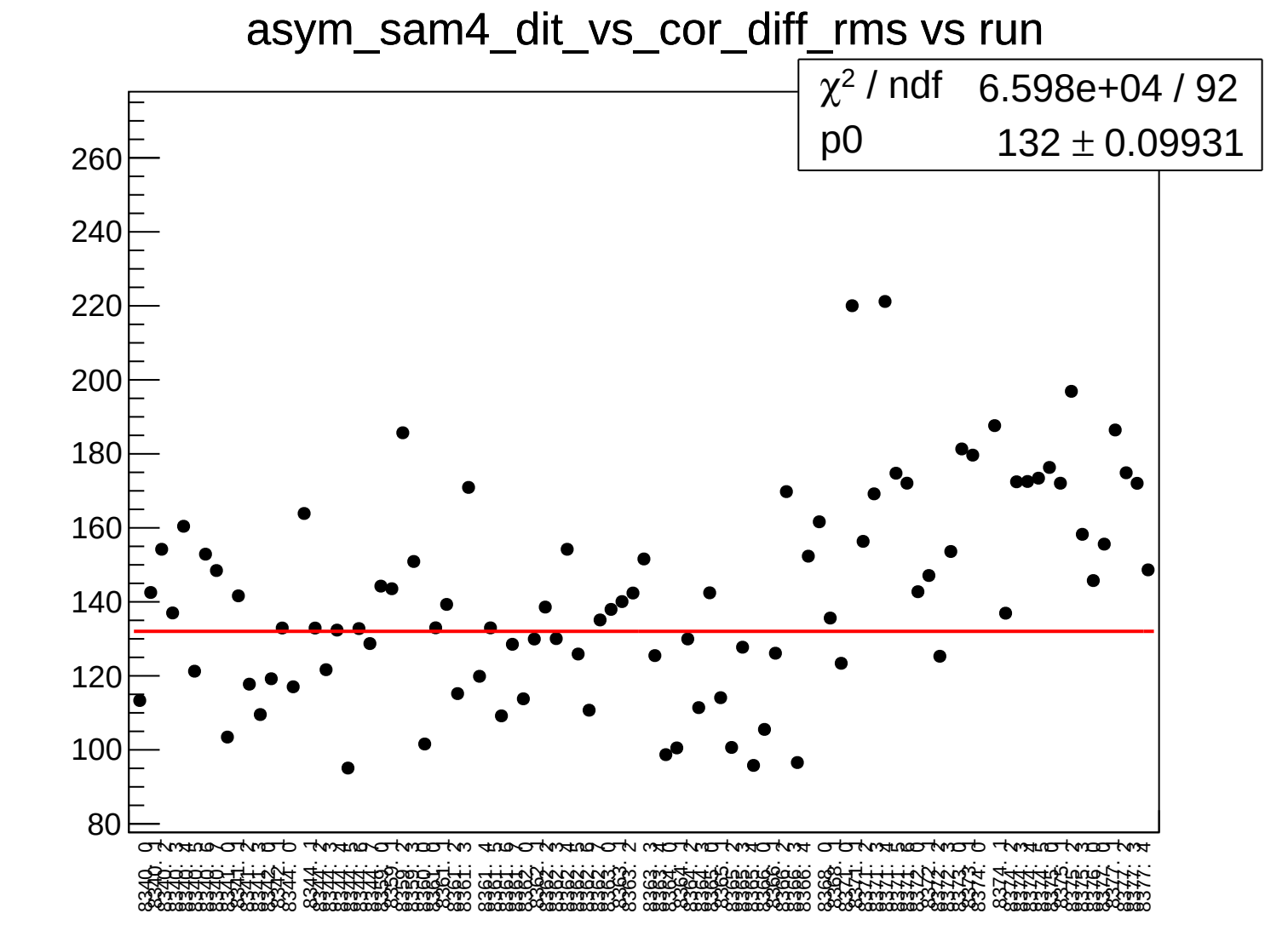

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 86.59 / 92
p0 −7.721e−14 ± 4.979e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 93
Mean −451.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

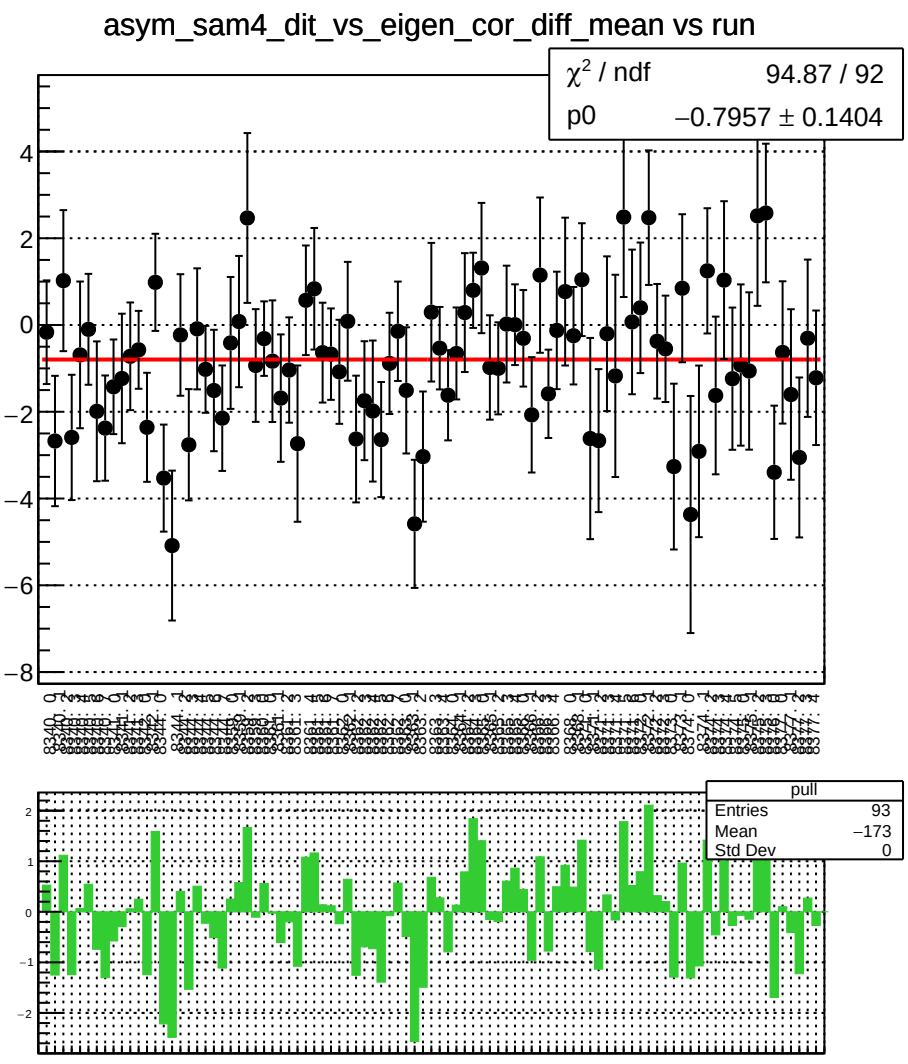

pull1D
Entries 93
Mean 0.003995
Std Dev 0.9649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

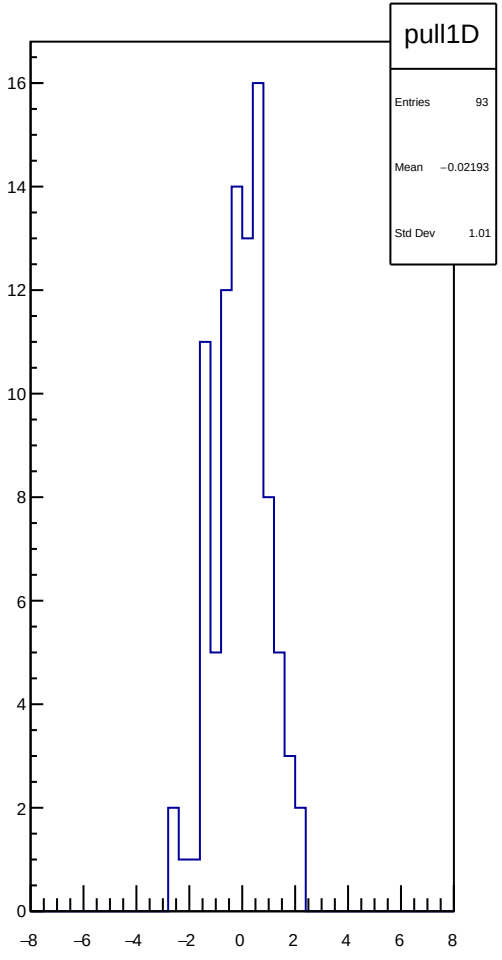

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.254e+05 / 92
p0 3.355e−10 ± 3.521e−13
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

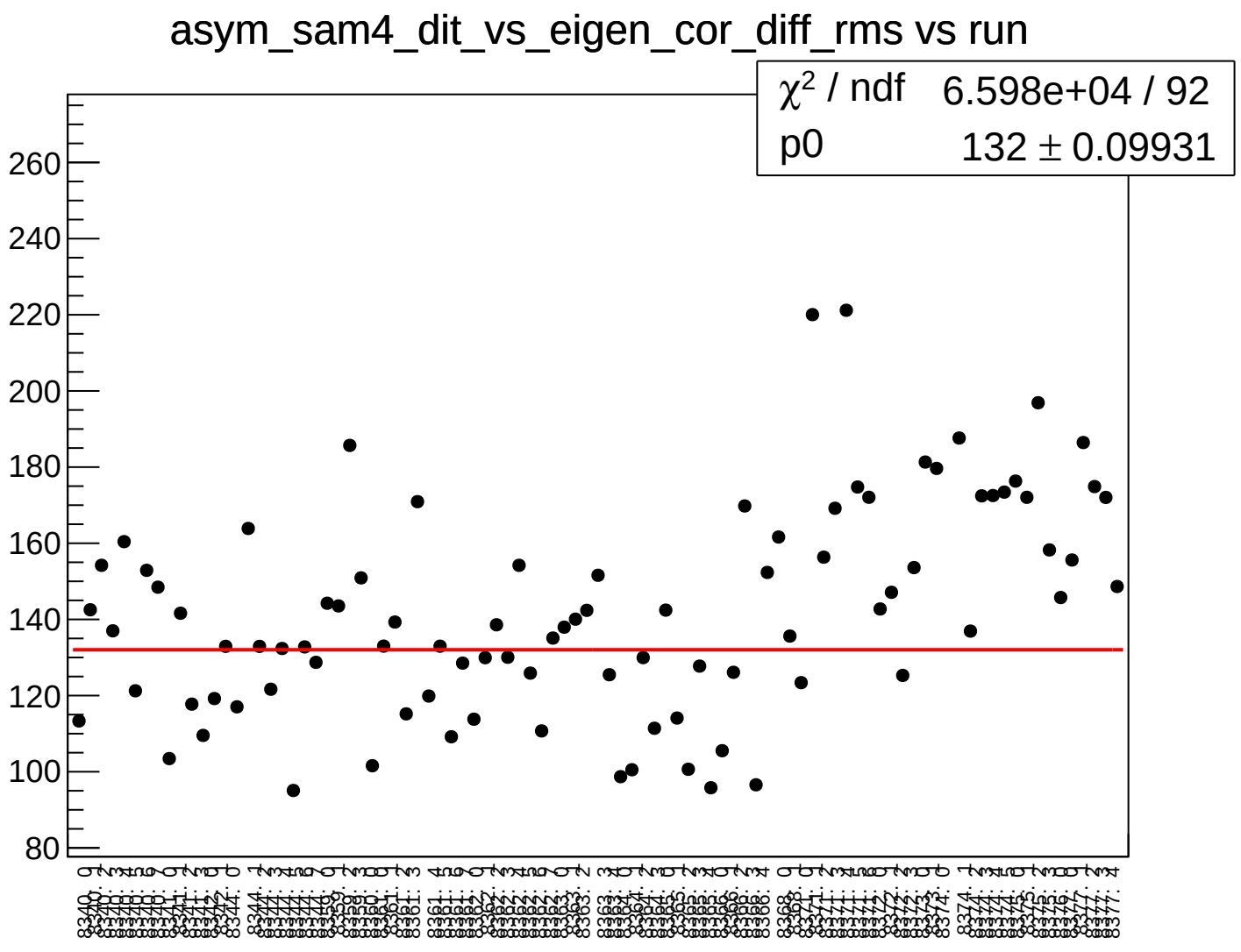

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 94.87 / 92
p0 −0.7957 ± 0.1404
pull
Entries 93
Mean −173
Std Dev 0

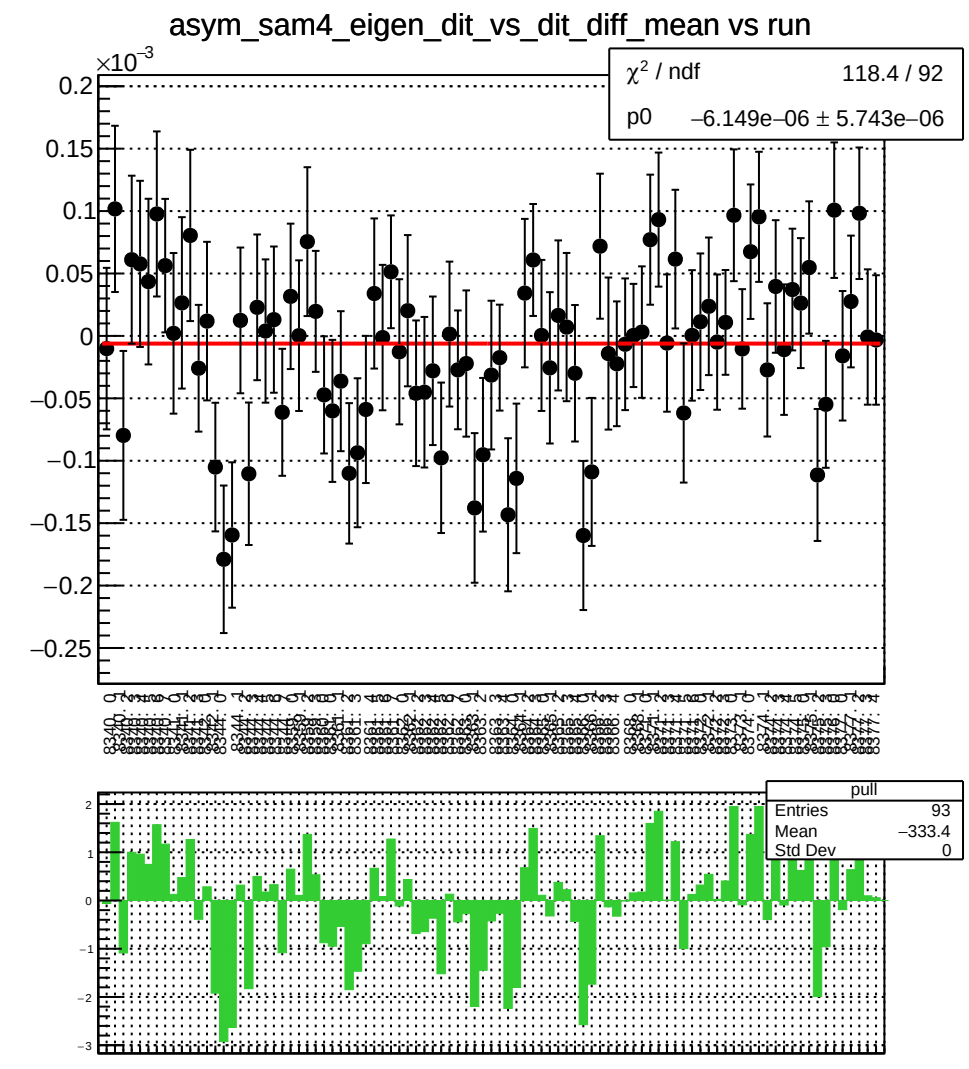

pull1D
Entries 93
Mean −0.02193
Std Dev 1.01

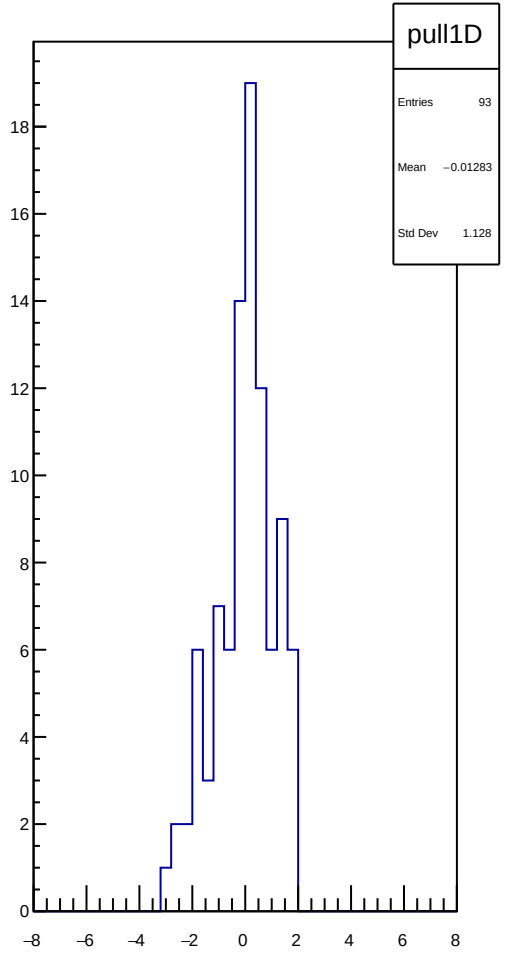

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 6.598e+04 / 92
p0 132 ± 0.09931
260
240
220
200
180
160
140
120
100
80

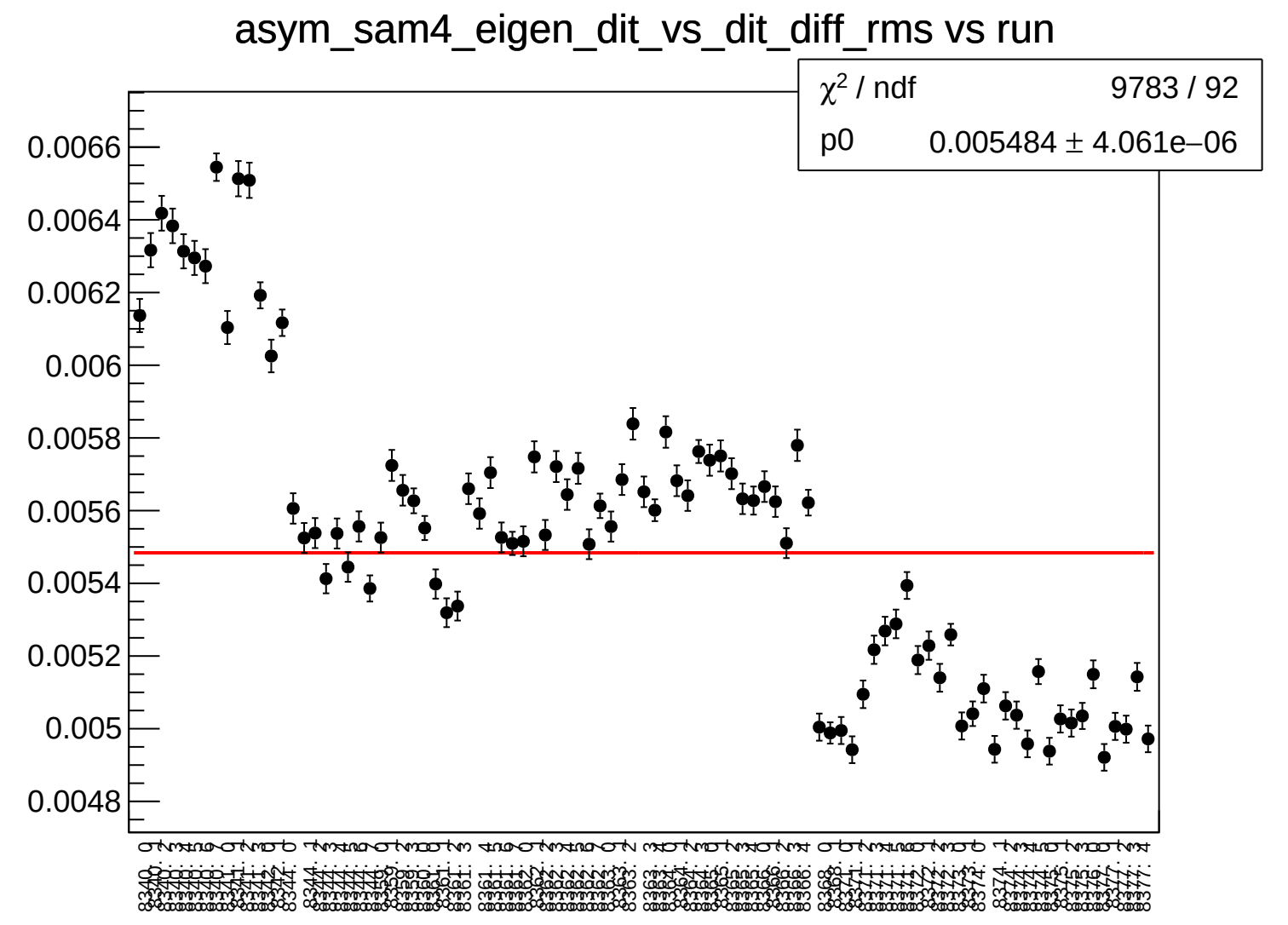

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.87 / 92
p0 −0.7957 ± 0.1404
pull
Entries 93
Mean −173
Std Dev 0

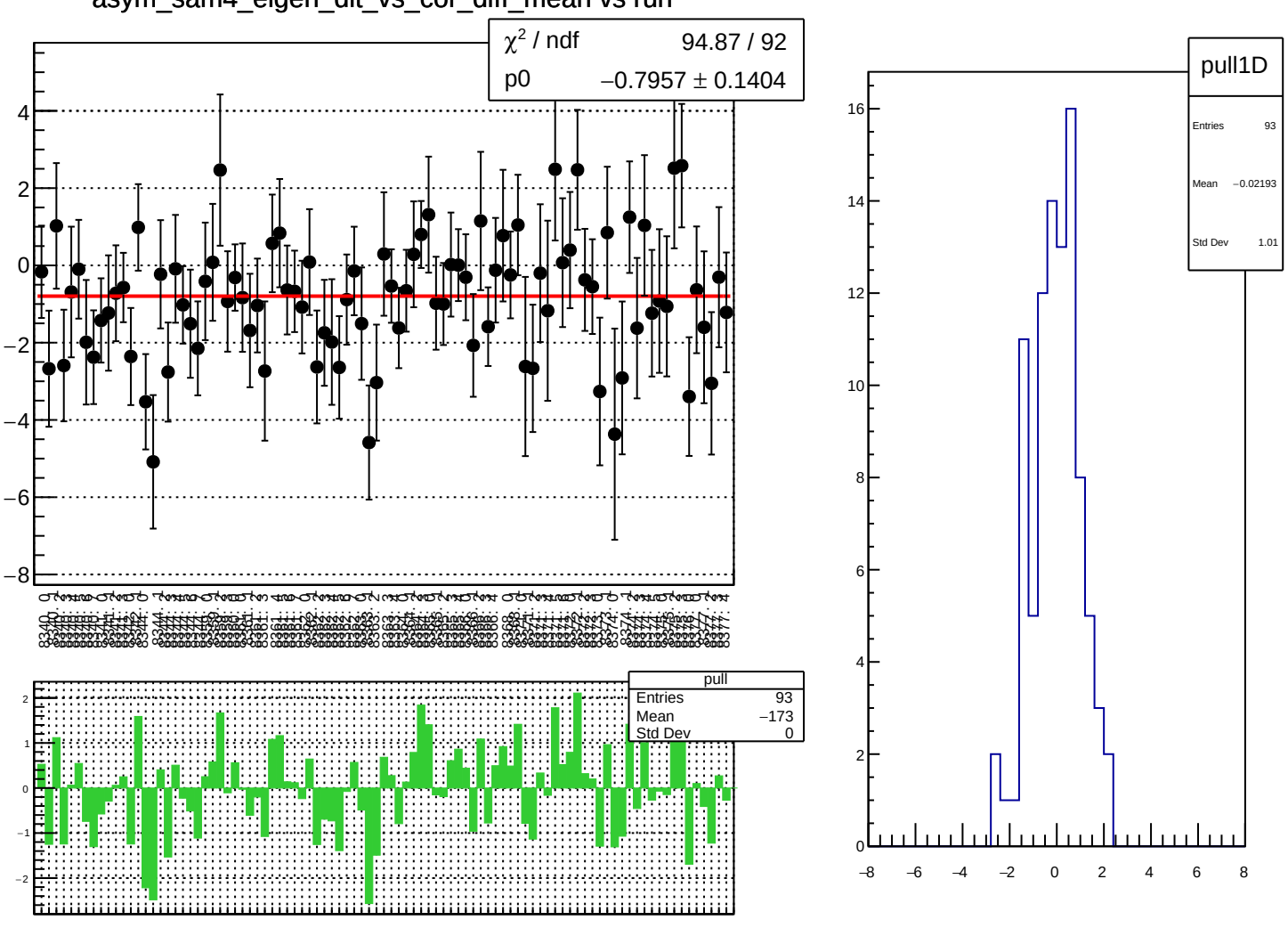

pull1D
Entries 93
Mean −0.02193
Std Dev 1.01

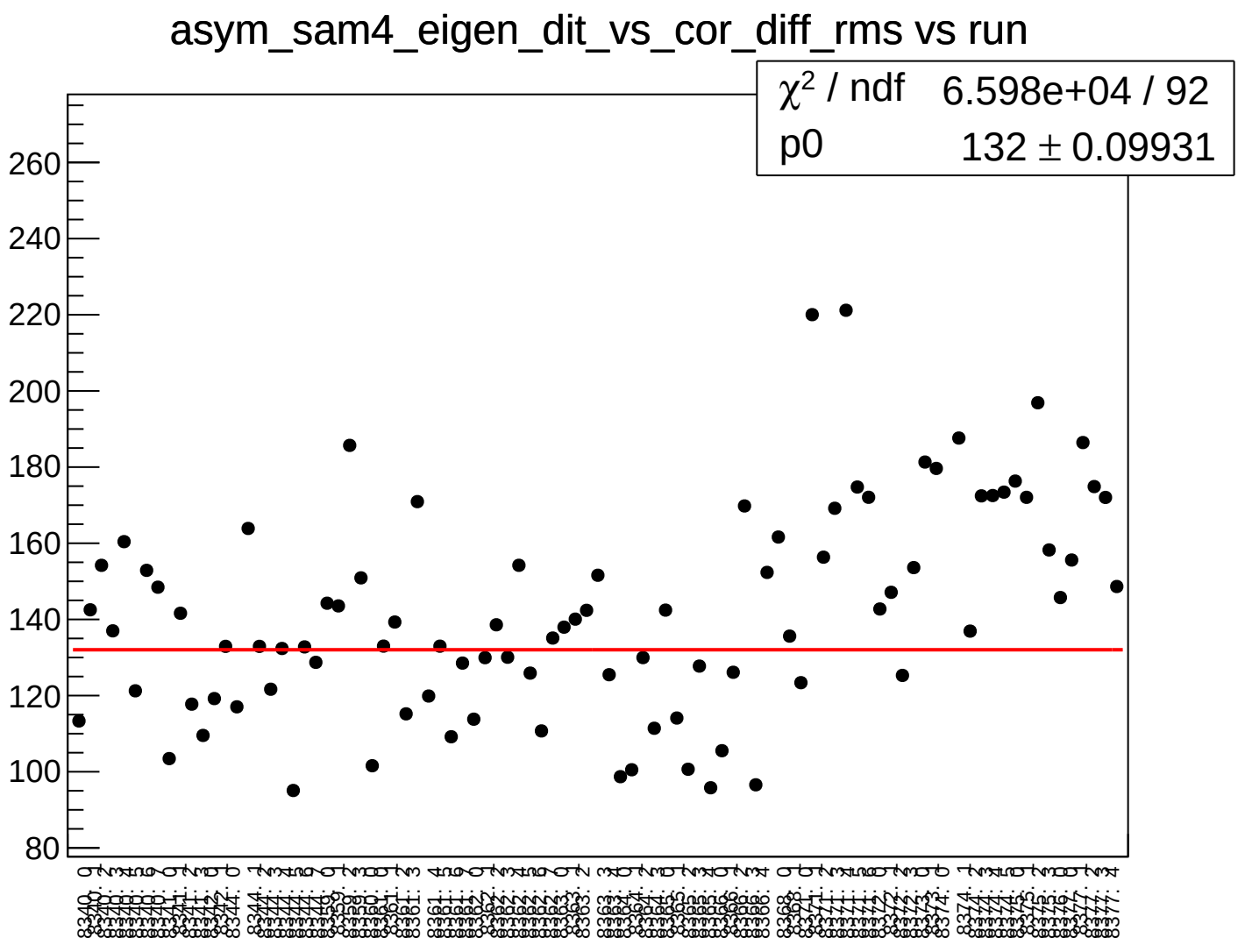

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.598e+04 / 92
p0 132 ± 0.09931
260
240
220
200
180
160
140
120
100
80

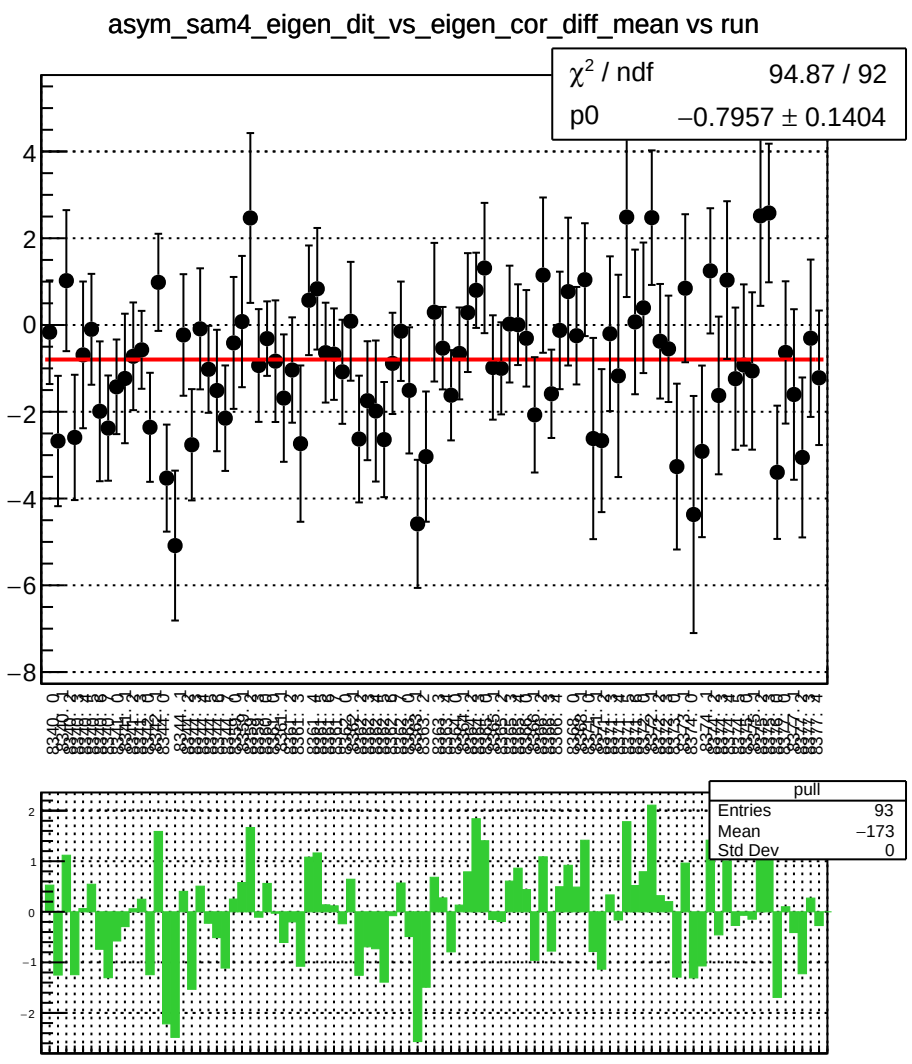

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.4 / 92
p0 −6.149e−06 ± 5.743e−06
pull
Entries 93
Mean −333.4
Std Dev 0

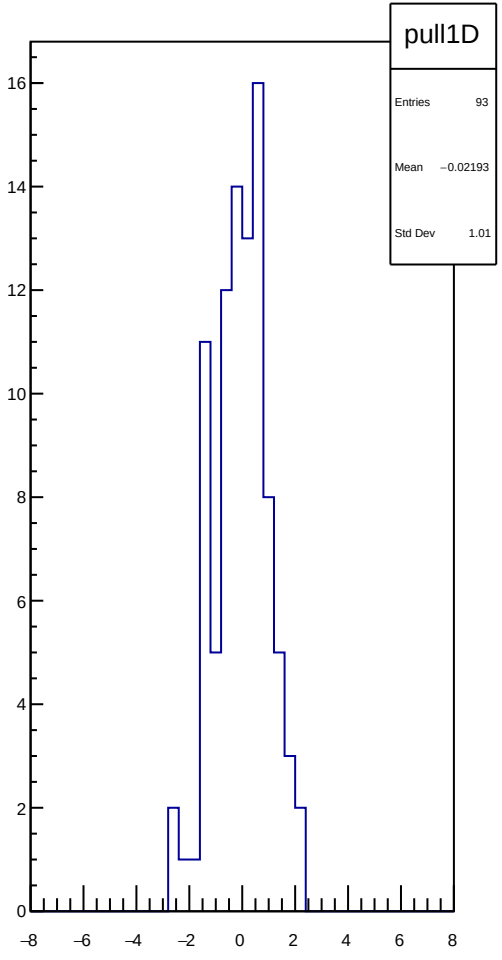

pull1D
Entries 93
Mean −0.01283
Std Dev 1.128

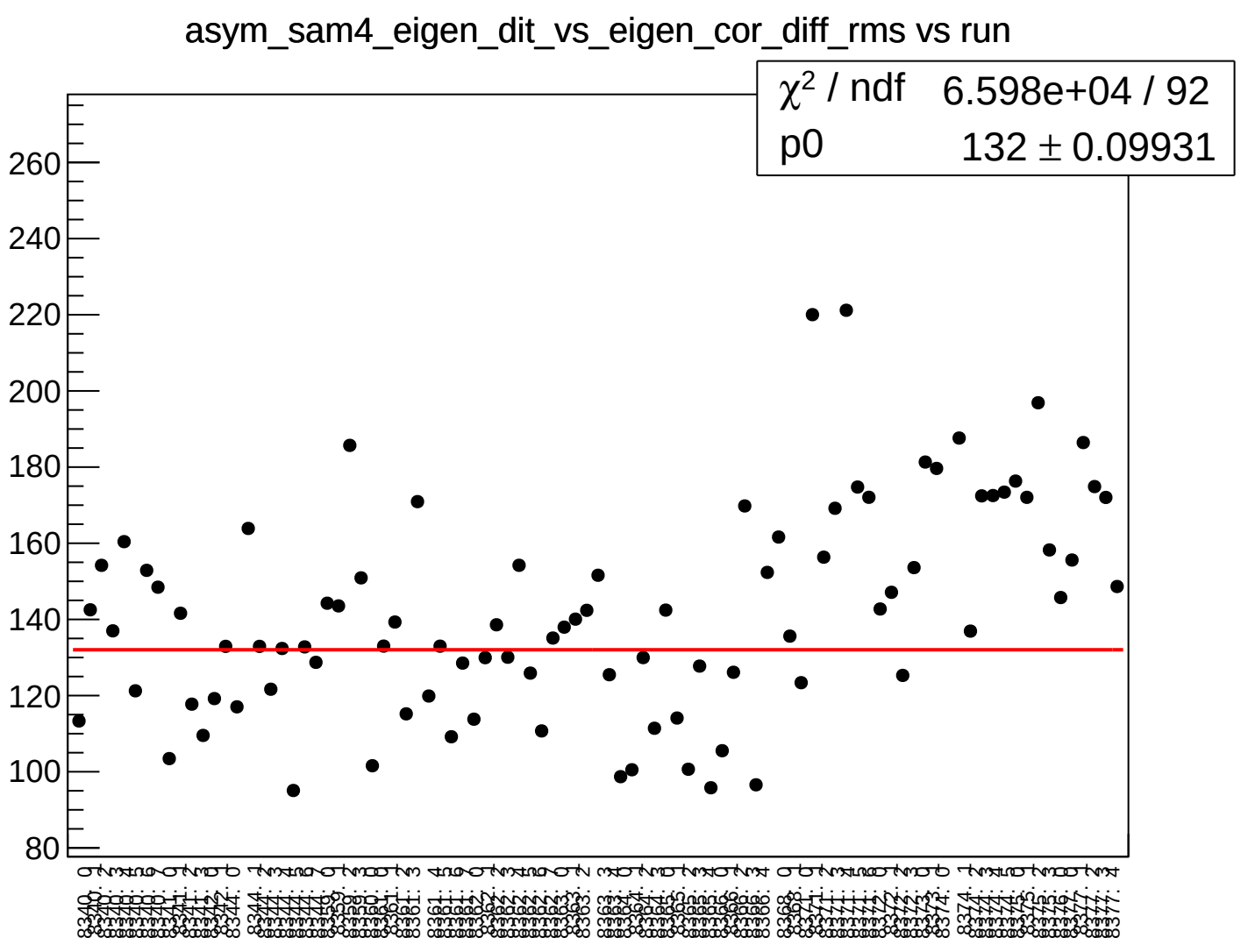

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9783 / 92
p0 0.005484 ± 4.061e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048

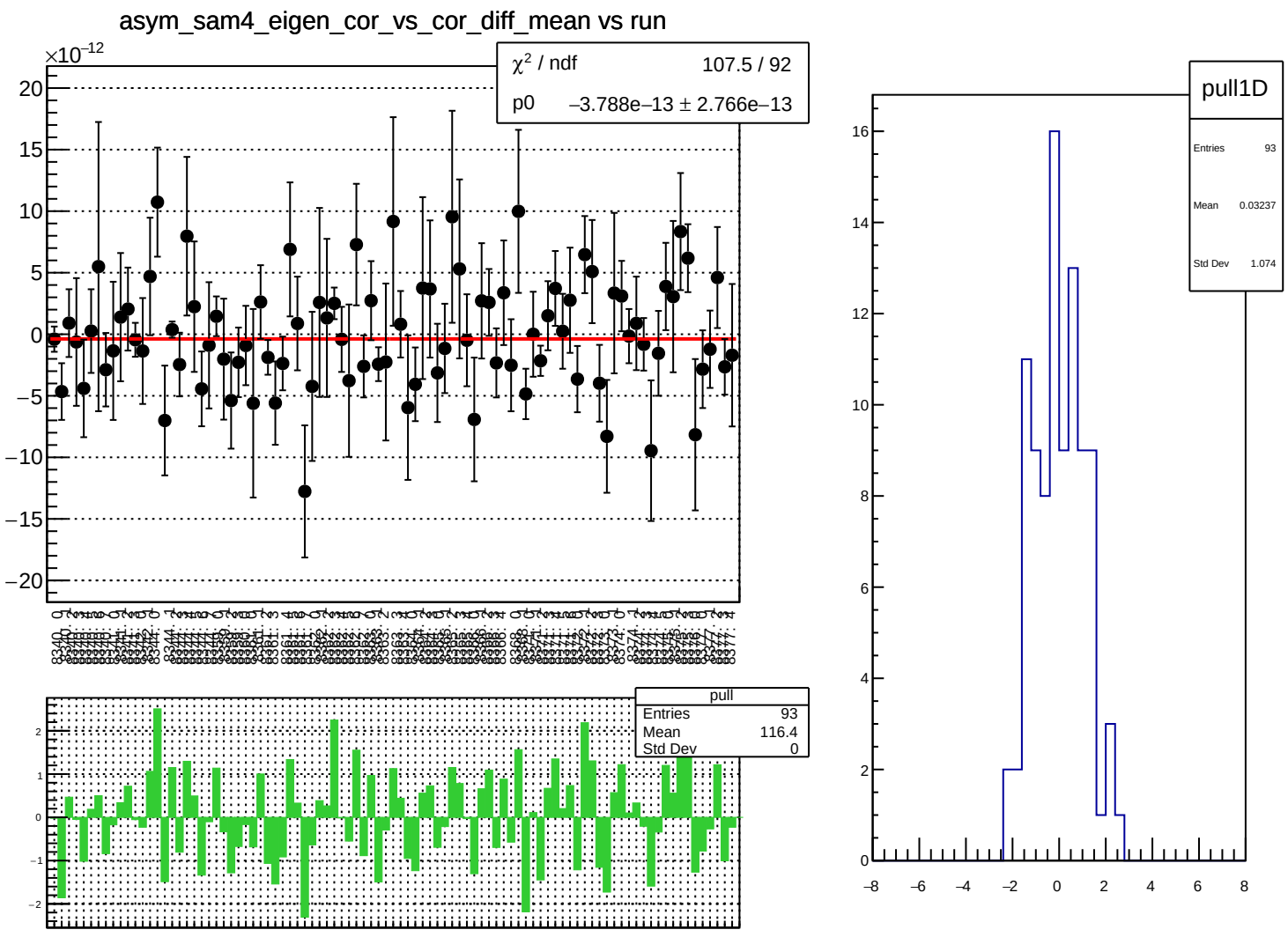

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.87 / 92
p0 −0.7957 ± 0.1404
pull
Entries 93
Mean −173
Std Dev 0
pull1D
Entries 93
Mean −0.02193
Std Dev 1.01

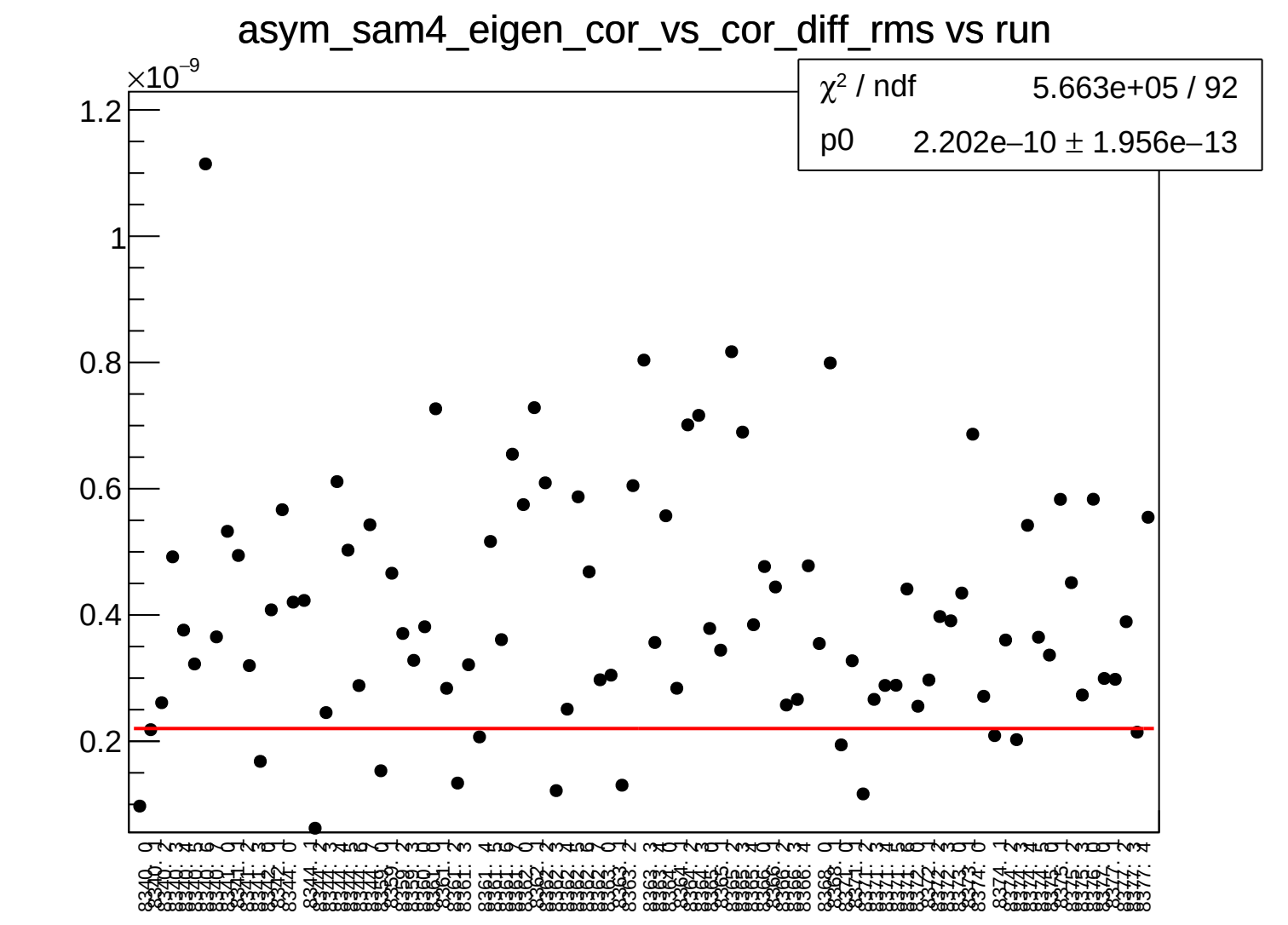

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.598e+04 / 92
p0 132 ± 0.09931
260
240
220
200
180
160
140
120
100
80

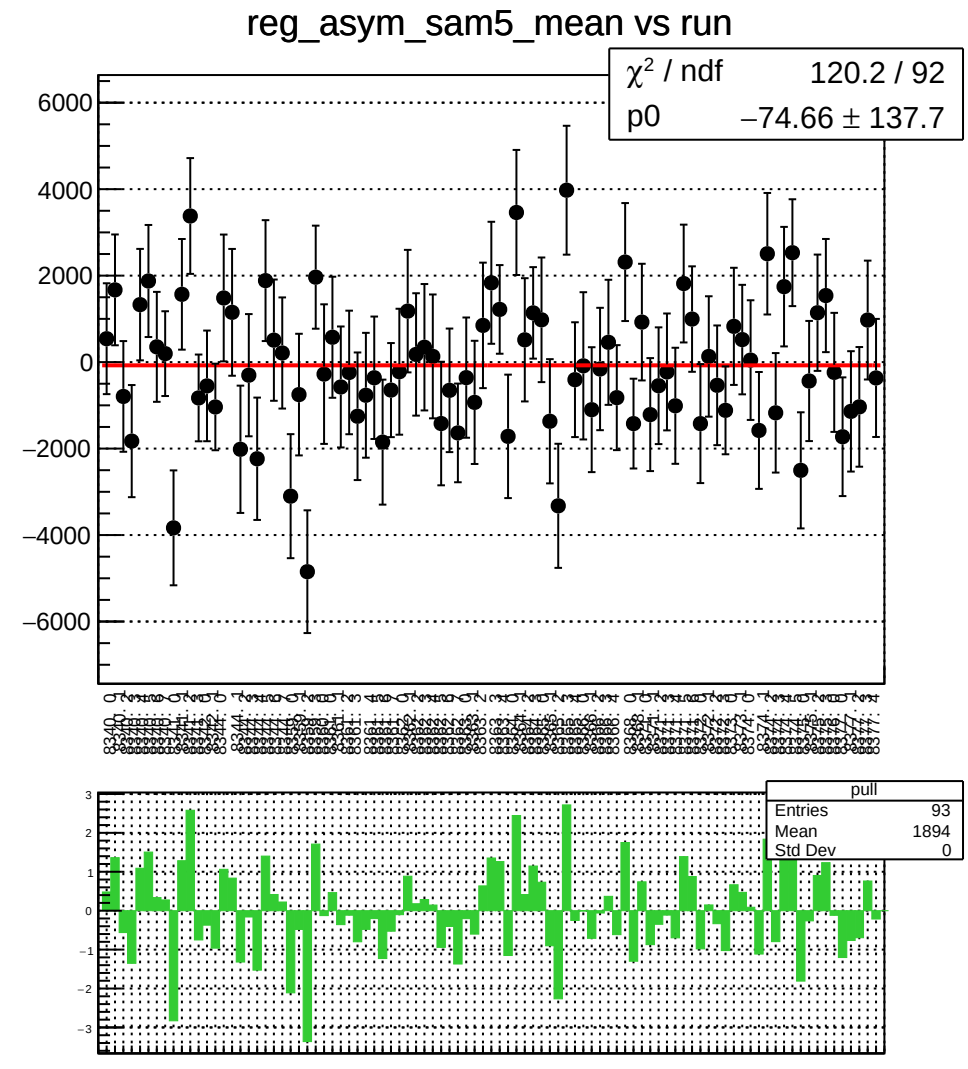

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.87 / 92
p0 −0.7957 ± 0.1404
pull
Entries 93
Mean −173
Std Dev 0

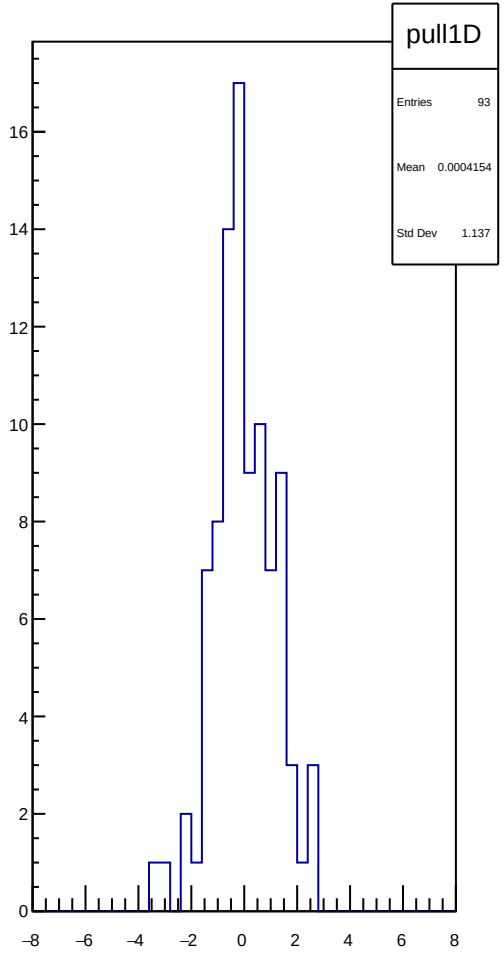

pull1D
Entries 93
Mean −0.02193
Std Dev 1.01

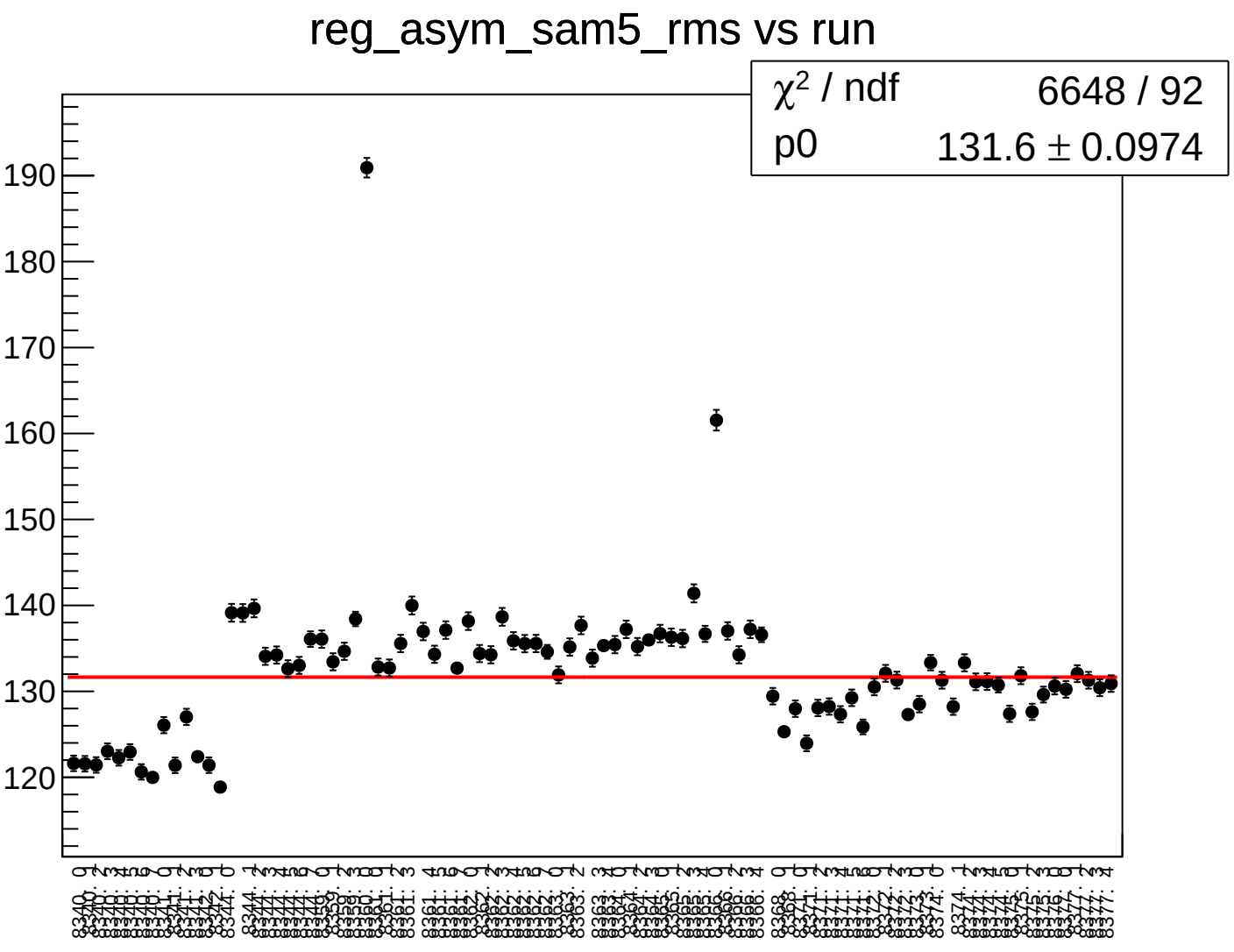

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.598e+04 / 92
p0 132 ± 0.09931
260
240
220
200
180
160
140
120
100
80

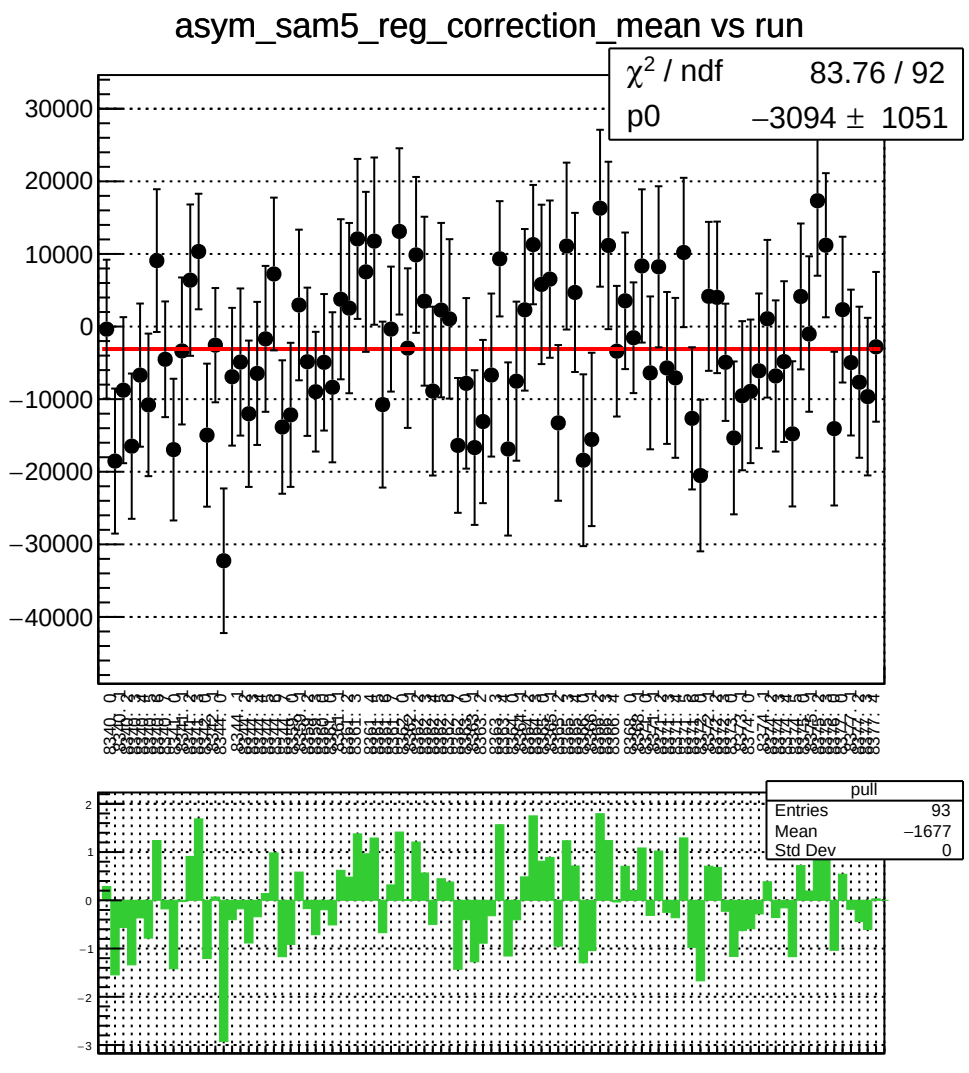

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.5 / 92
p0 −3.788e−13 ± 2.766e−13
pull
Entries 93
Mean 116.4
Std Dev 0
pull1D
Entries 93
Mean 0.03237
Std Dev 1.074

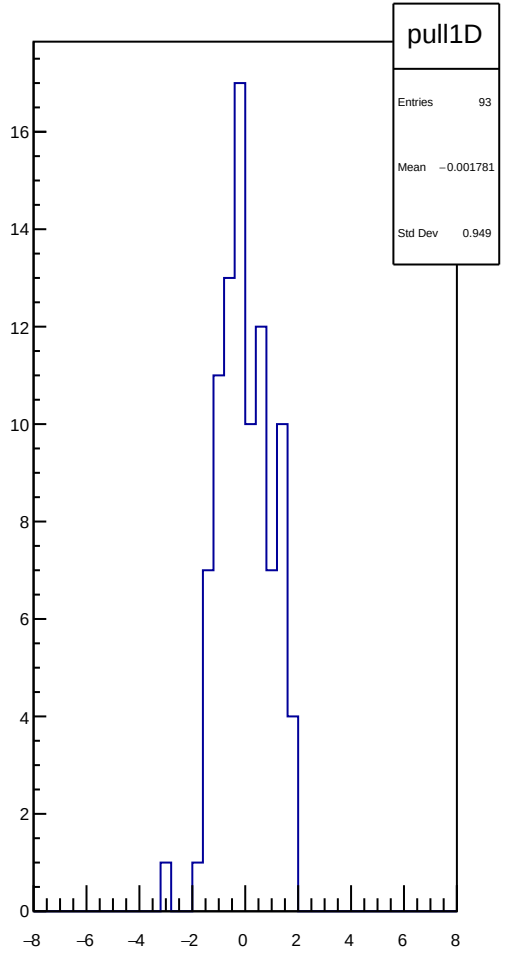

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.663e+05 / 92
p0 2.202e−10 ± 1.956e−13
1.2
1
0.8
0.6
0.4
0.2

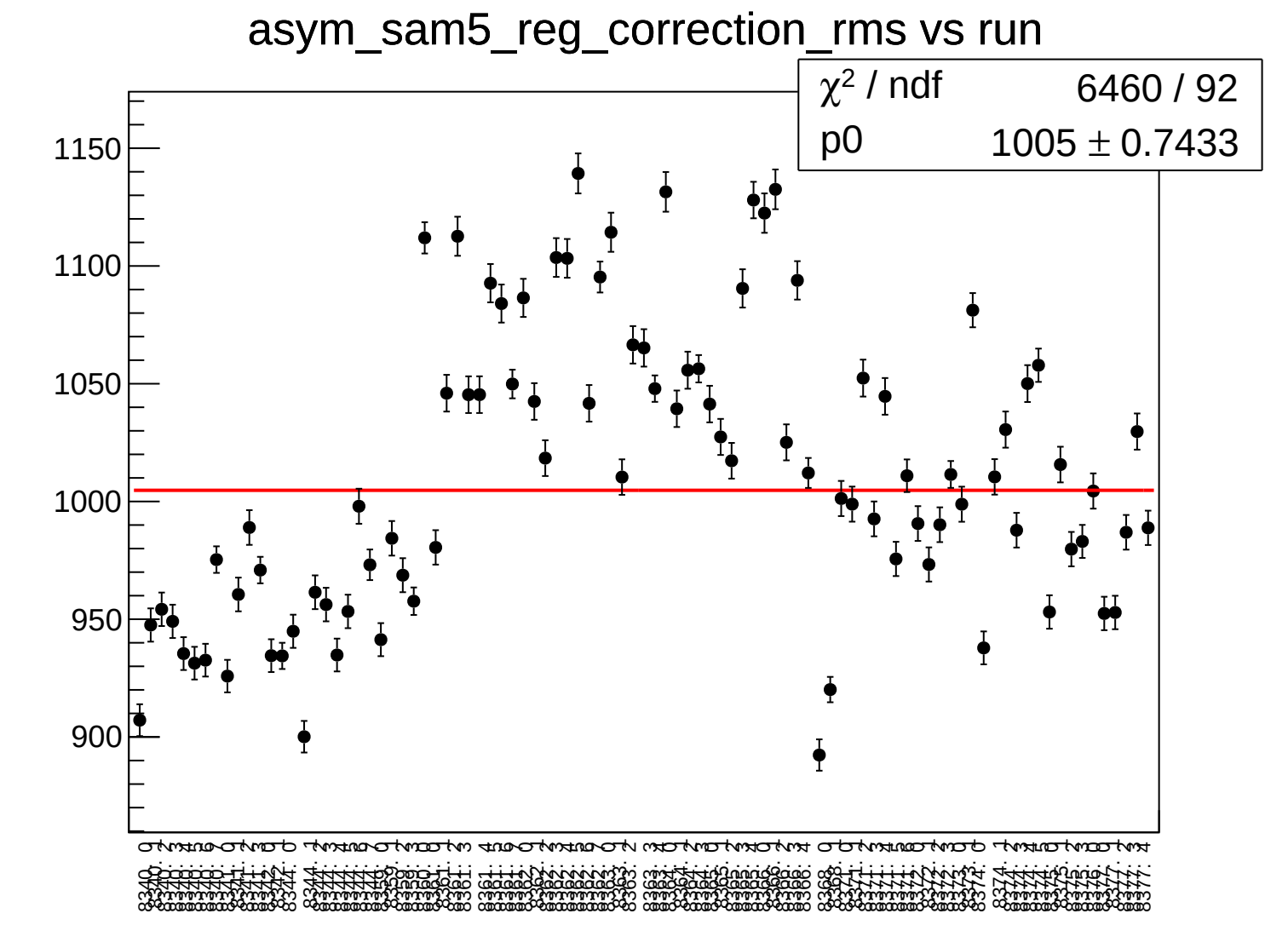

reg_asym_sam5_mean vs run
χ² / ndf 120.2 / 92
p0 −74.66 ± 137.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 1894
Std Dev 0
3
2
1
0
−1
−2
−3

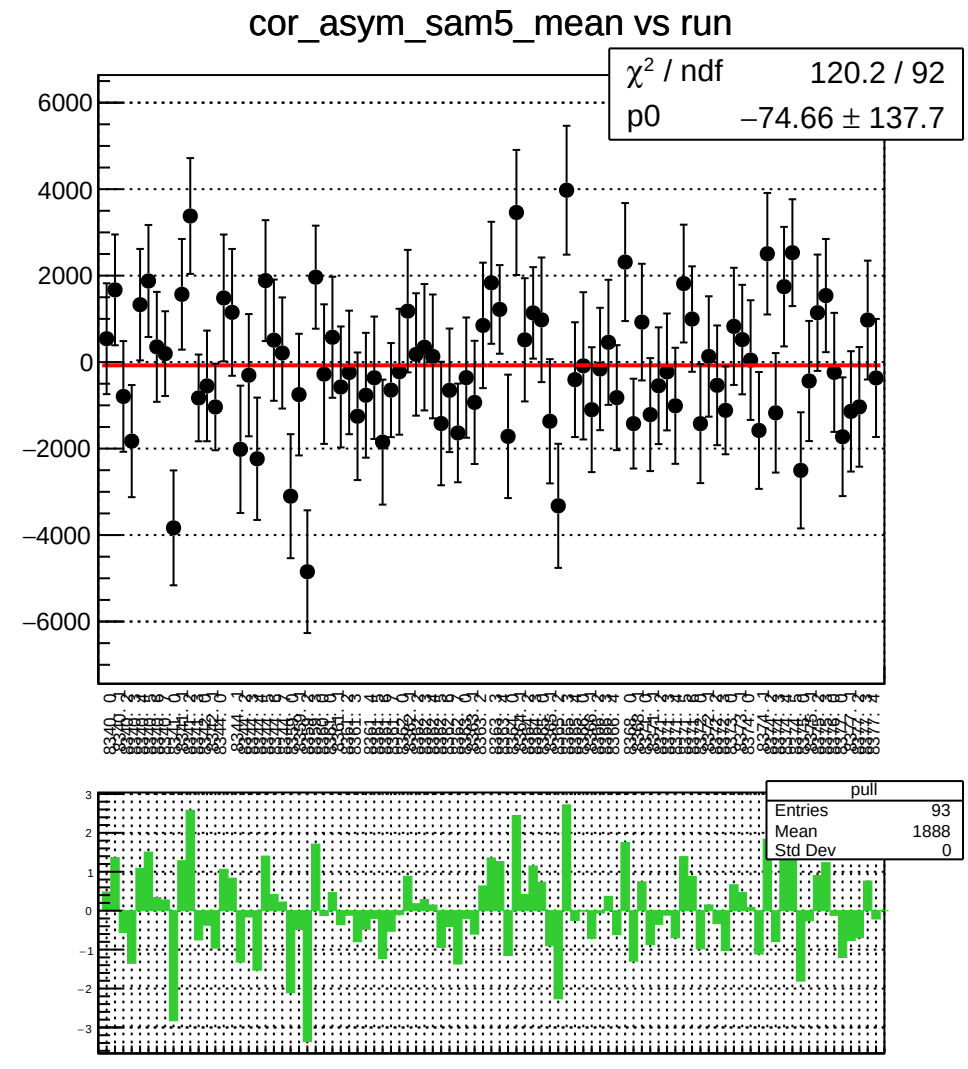

pull1D
Entries 93
Mean 0.0004154
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

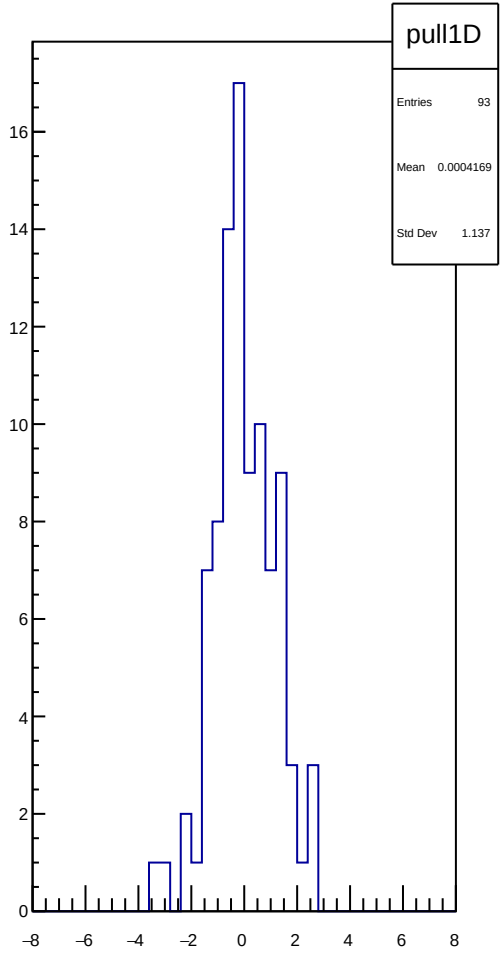

reg_asym_sam5_rms vs run
χ² / ndf 6648 / 92
p0 131.6 ± 0.0974
190
180
170
160
150
140
130
120

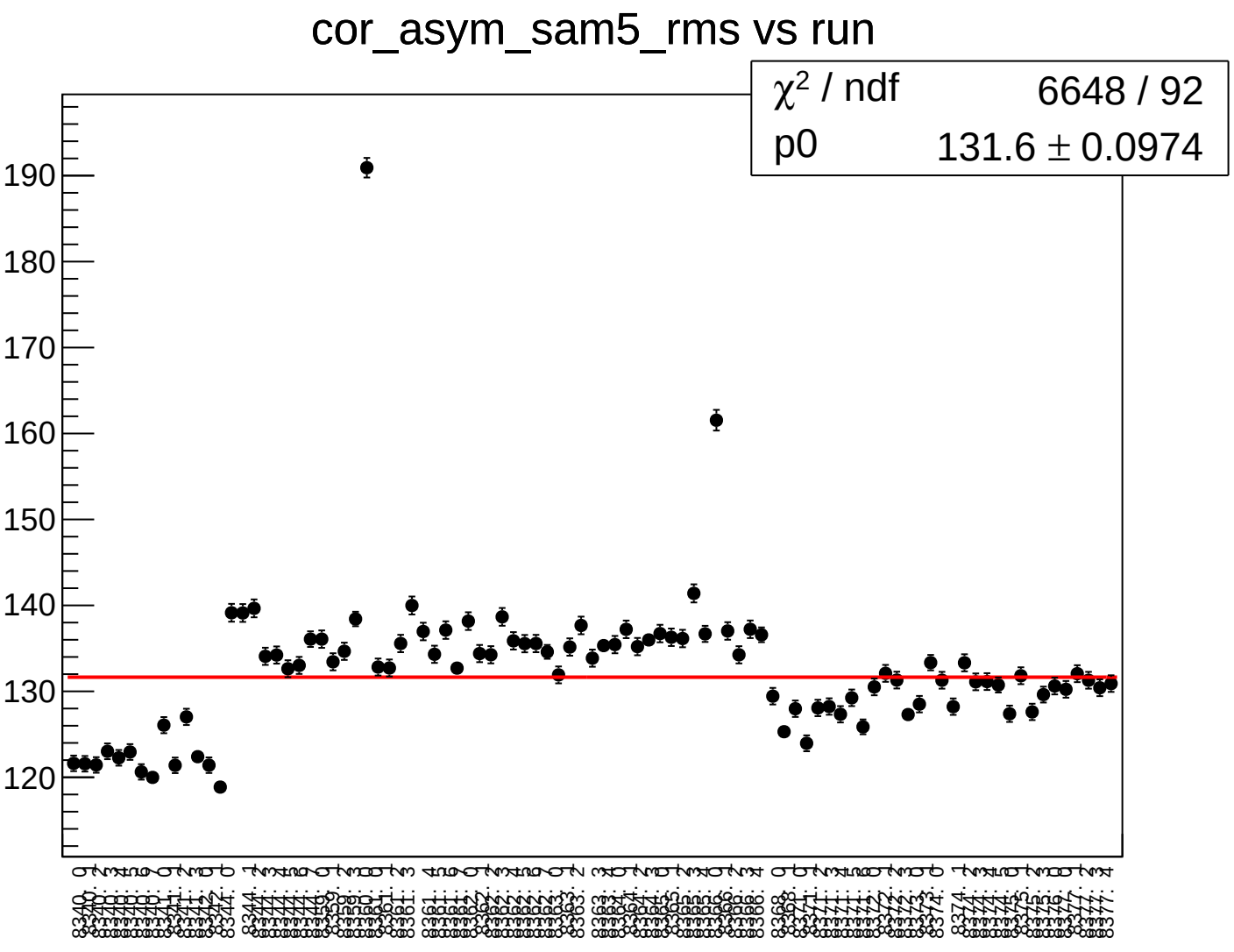

asym_sam5_reg_correction_mean vs run
χ² / ndf 83.76 / 92
p0 −3094 ± 1051
pull
Entries 93
Mean −1677
Std Dev 0

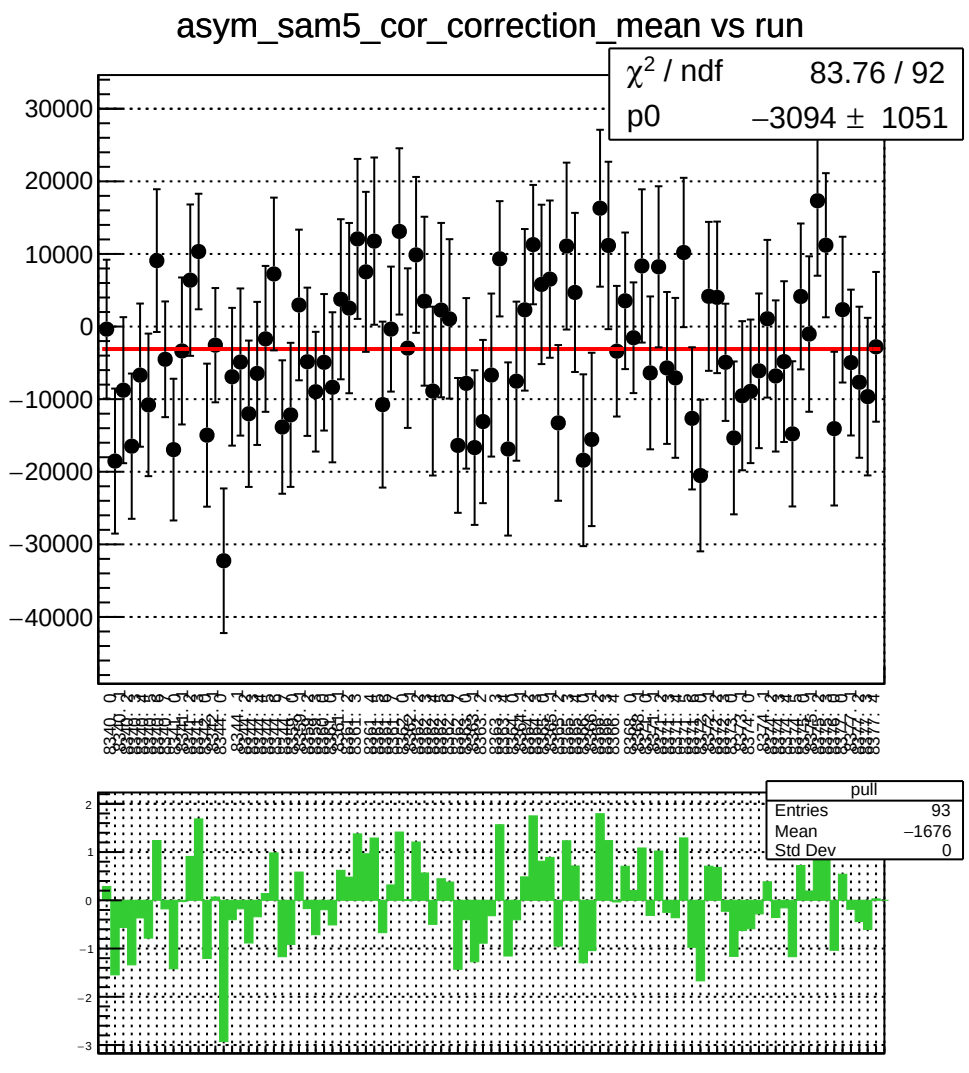

pull1D
Entries 93
Mean −0.001781
Std Dev 0.949

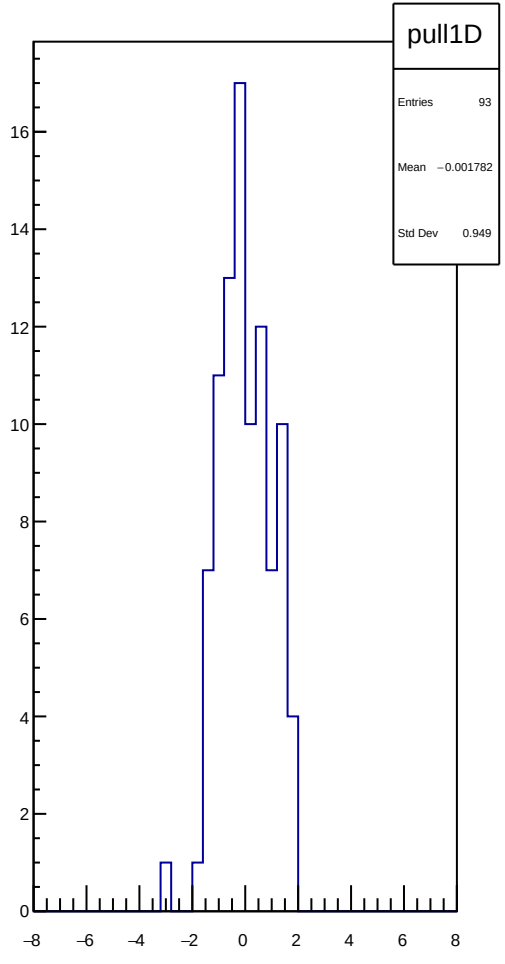

asym_sam5_reg_correction_rms vs run
χ² / ndf 6460 / 92
p0 1005 ± 0.7433
1150
1100
1050
1000
950
900

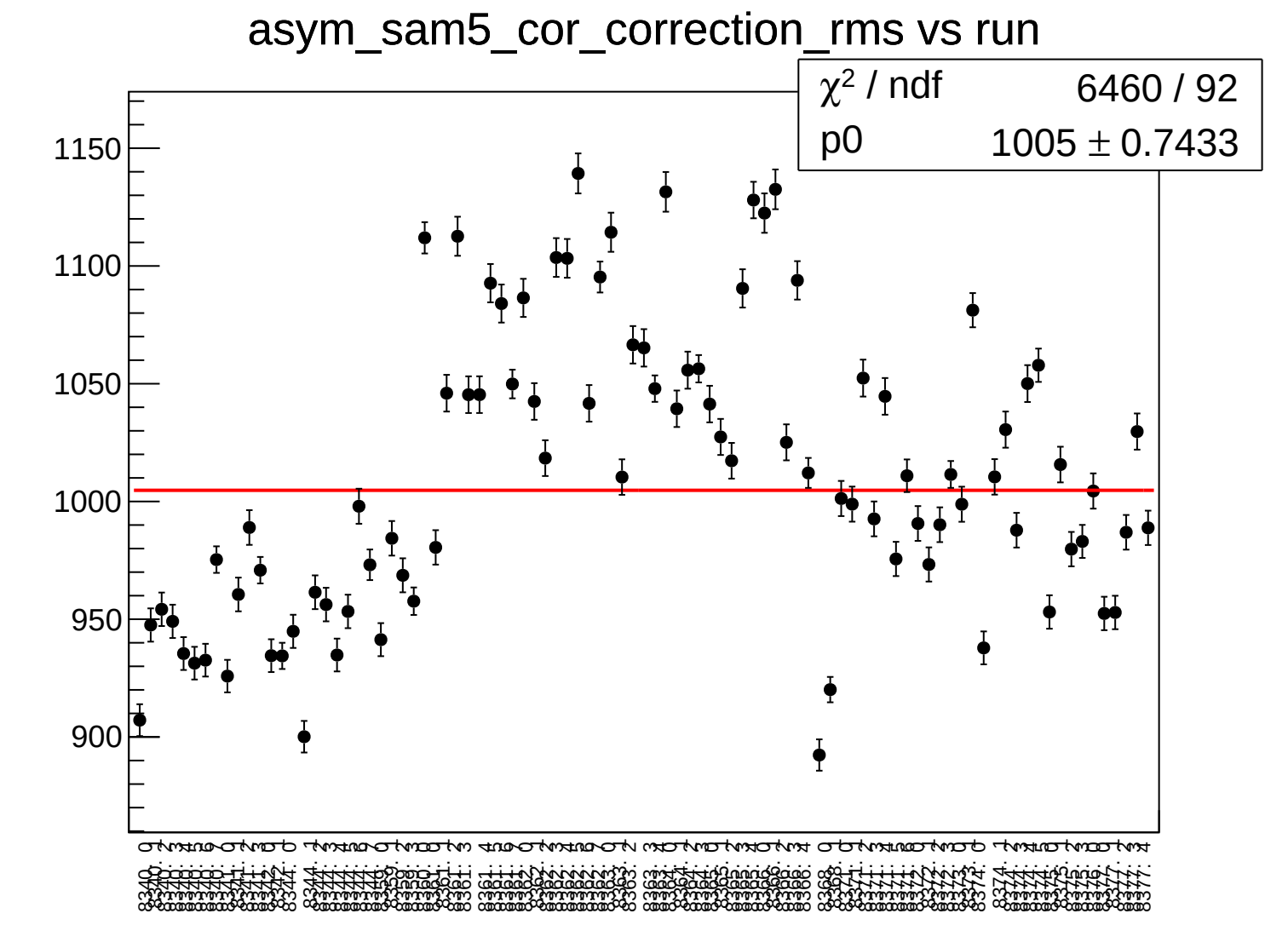

cor_asym_sam5_mean vs run
χ² / ndf 120.2 / 92
p0 −74.66 ± 137.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 1888
Std Dev 0
3
2
1
0
−1
−2
−3

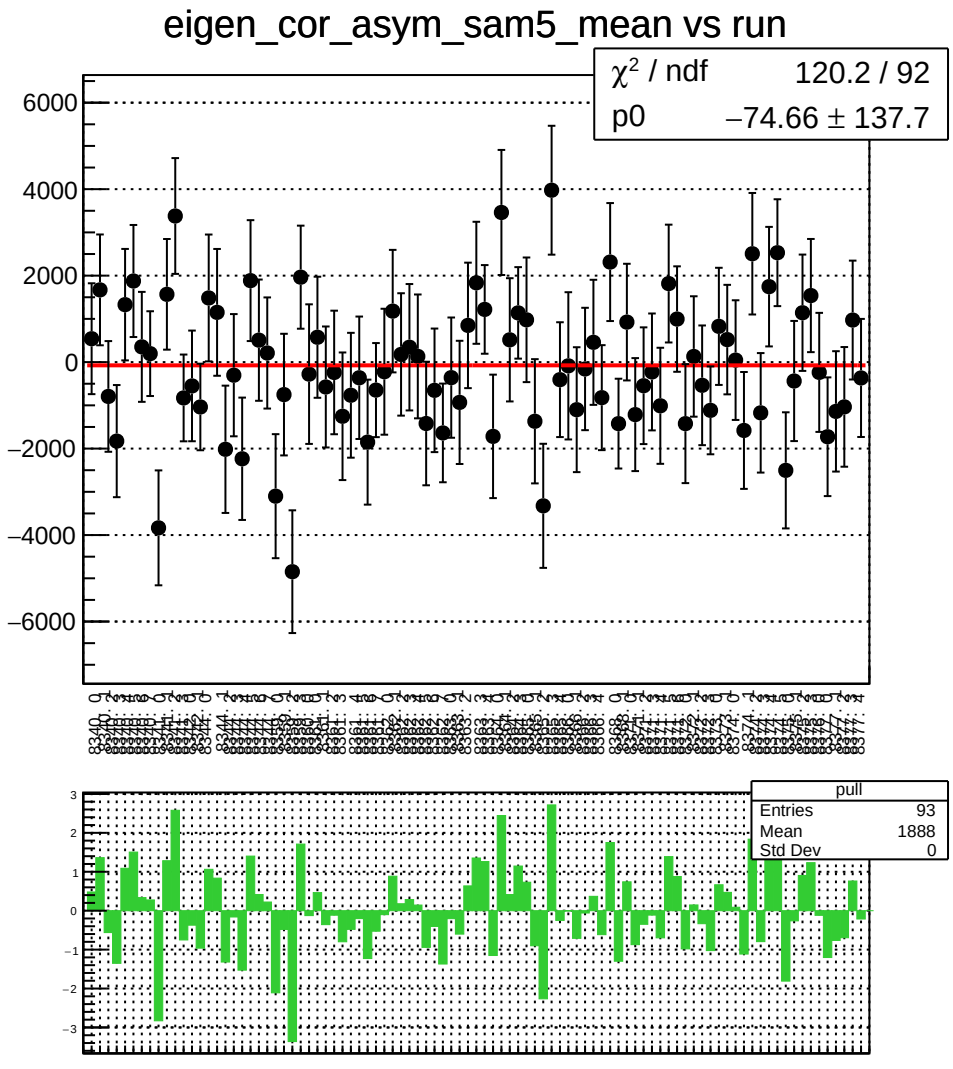

pull1D
Entries 93
Mean 0.0004169
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

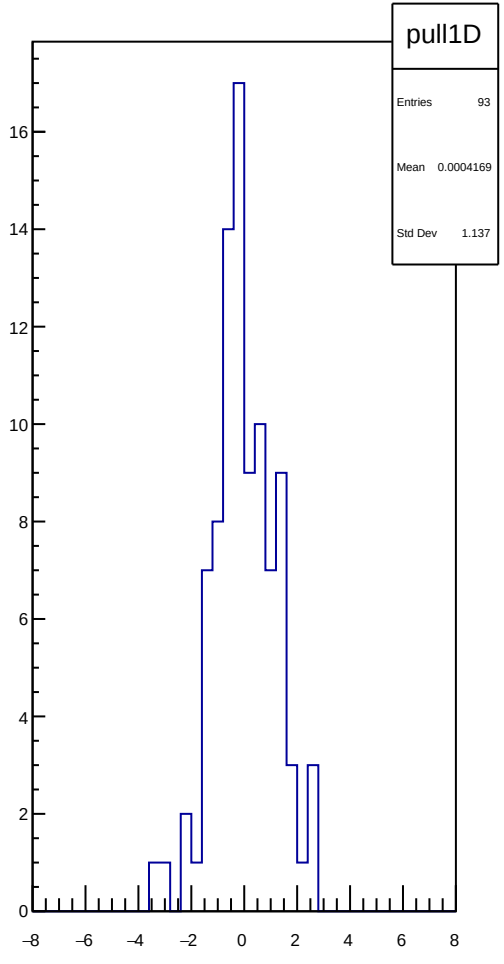

cor_asym_sam5_rms vs run
χ² / ndf 6648 / 92
p0 131.6 ± 0.0974
190
180
170
160
150
140
130
120

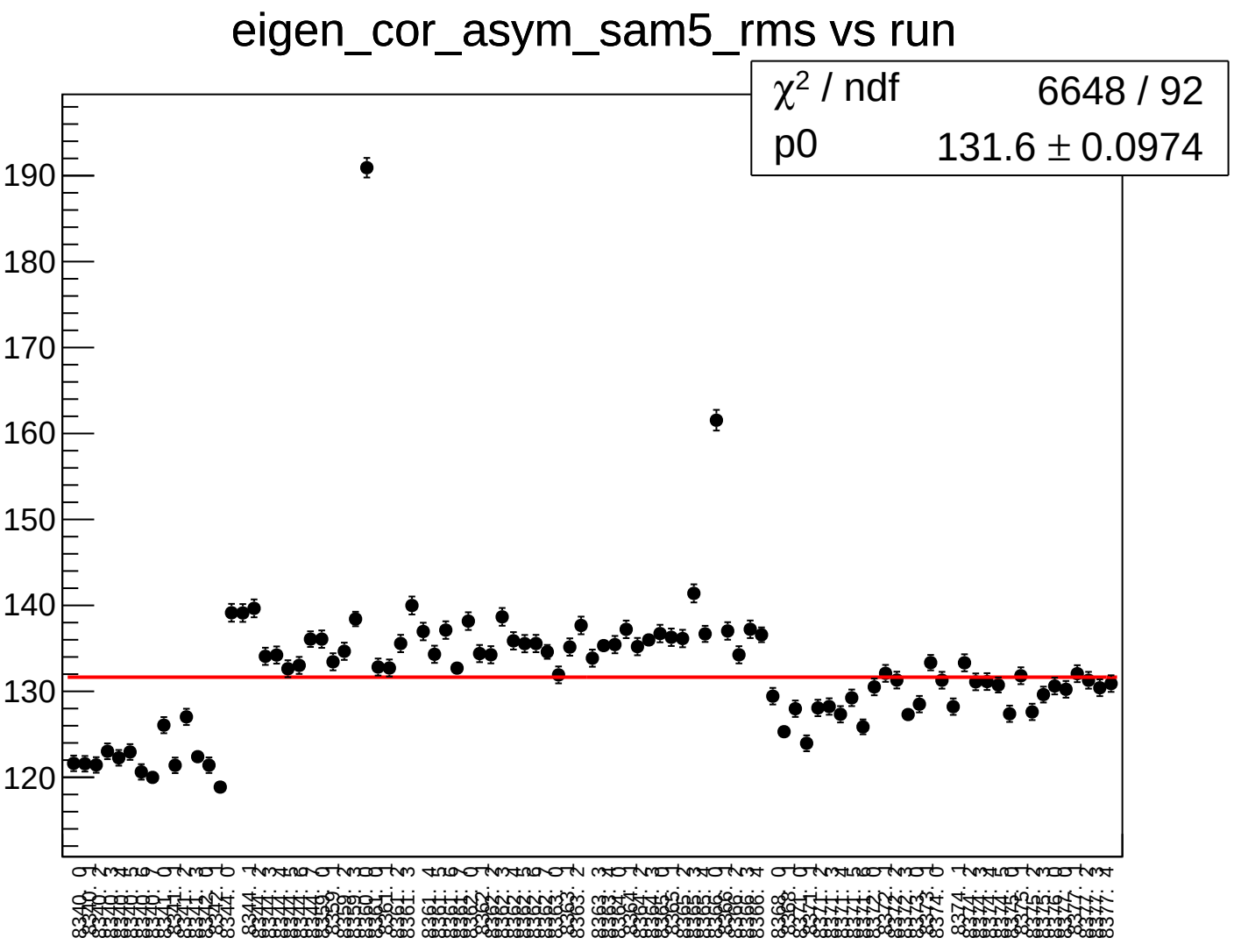

asym_sam5_cor_correction_mean vs run
χ² / ndf 83.76 / 92
p0 −3094 ± 1051
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −1676
Std Dev 0
2
1
0
−1
−2
−3

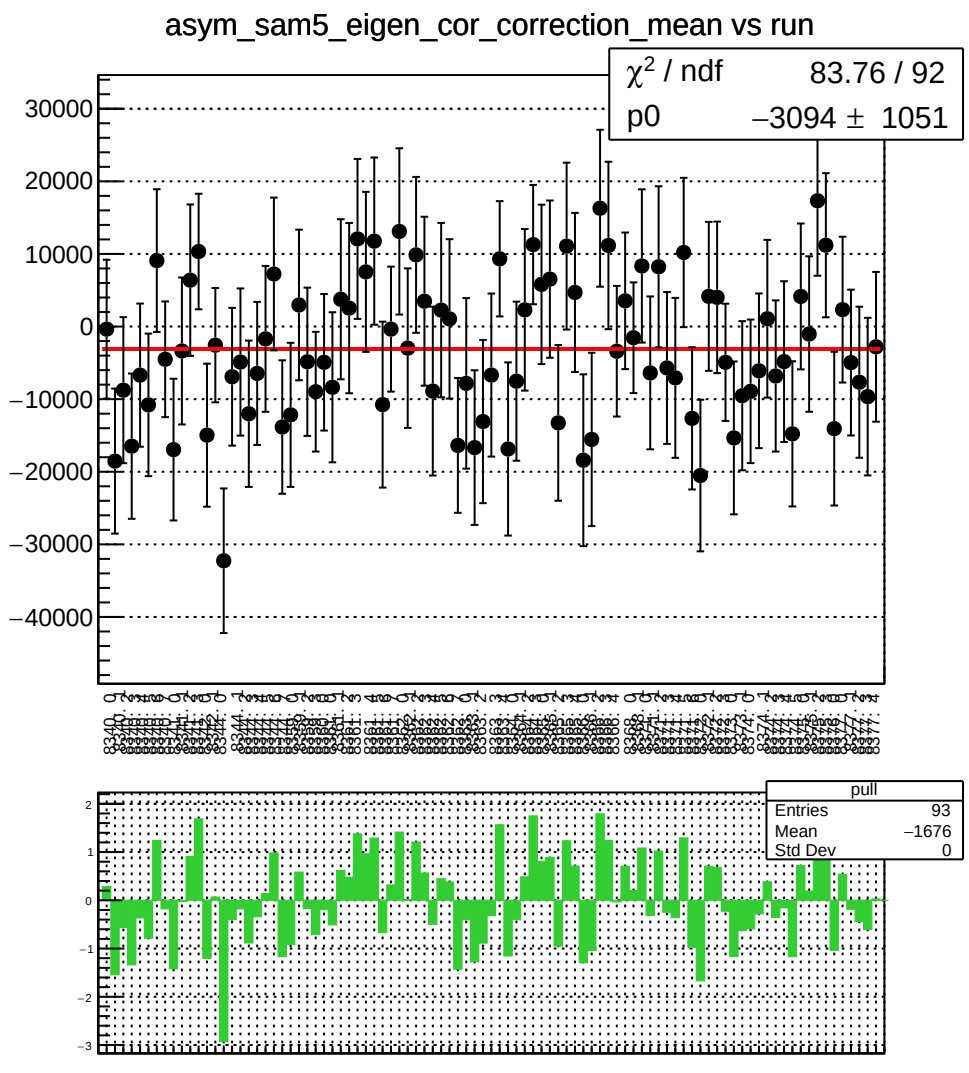

pull1D
Entries 93
Mean −0.001782
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

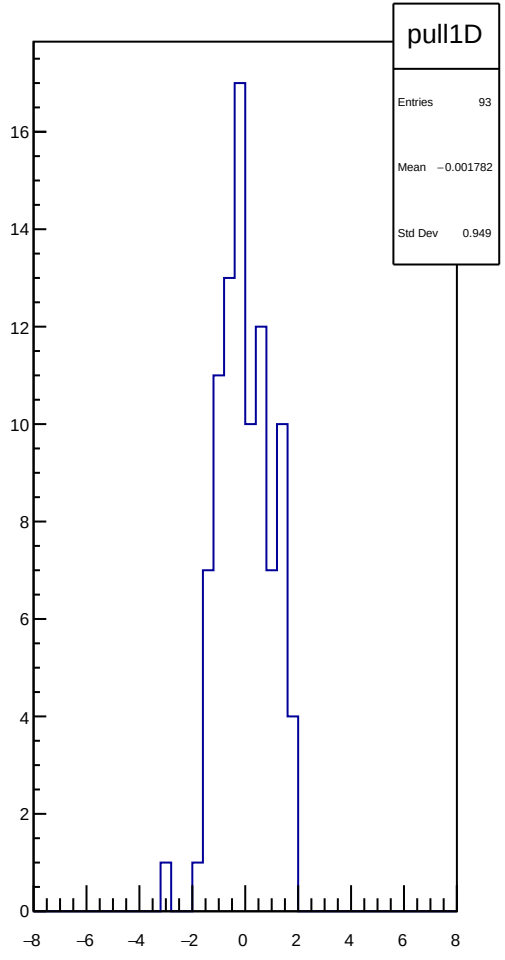

asym_sam5_cor_correction_rms vs run
χ² / ndf 6460 / 92
p0 1005 ± 0.7433
1150
1100
1050
1000
950
900

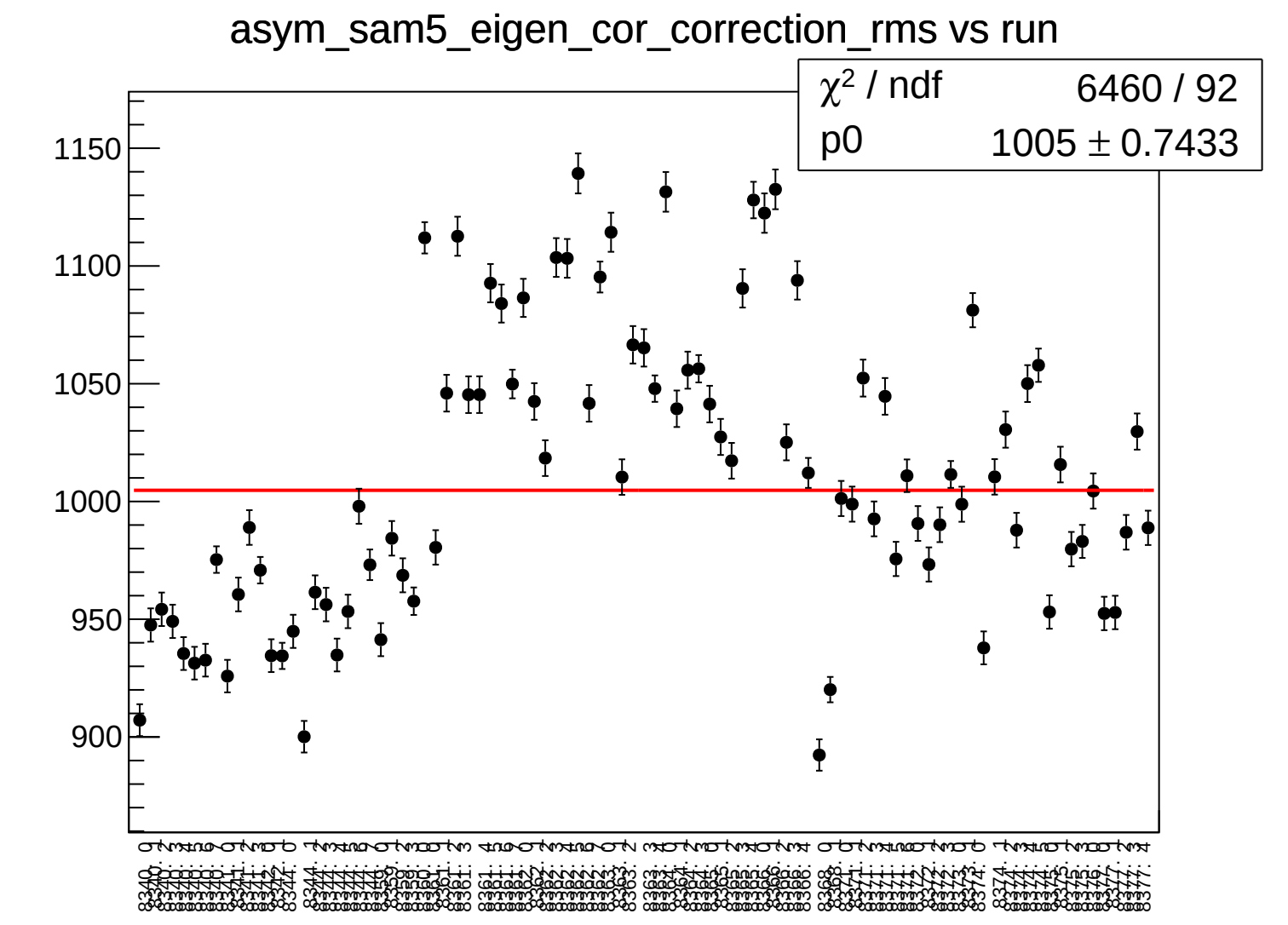

eigen_cor_asym_sam5_mean vs run
χ² / ndf 120.2 / 92
p0 −74.66 ± 137.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 1888
Std Dev 0
3
2
1
0
−1
−2
−3

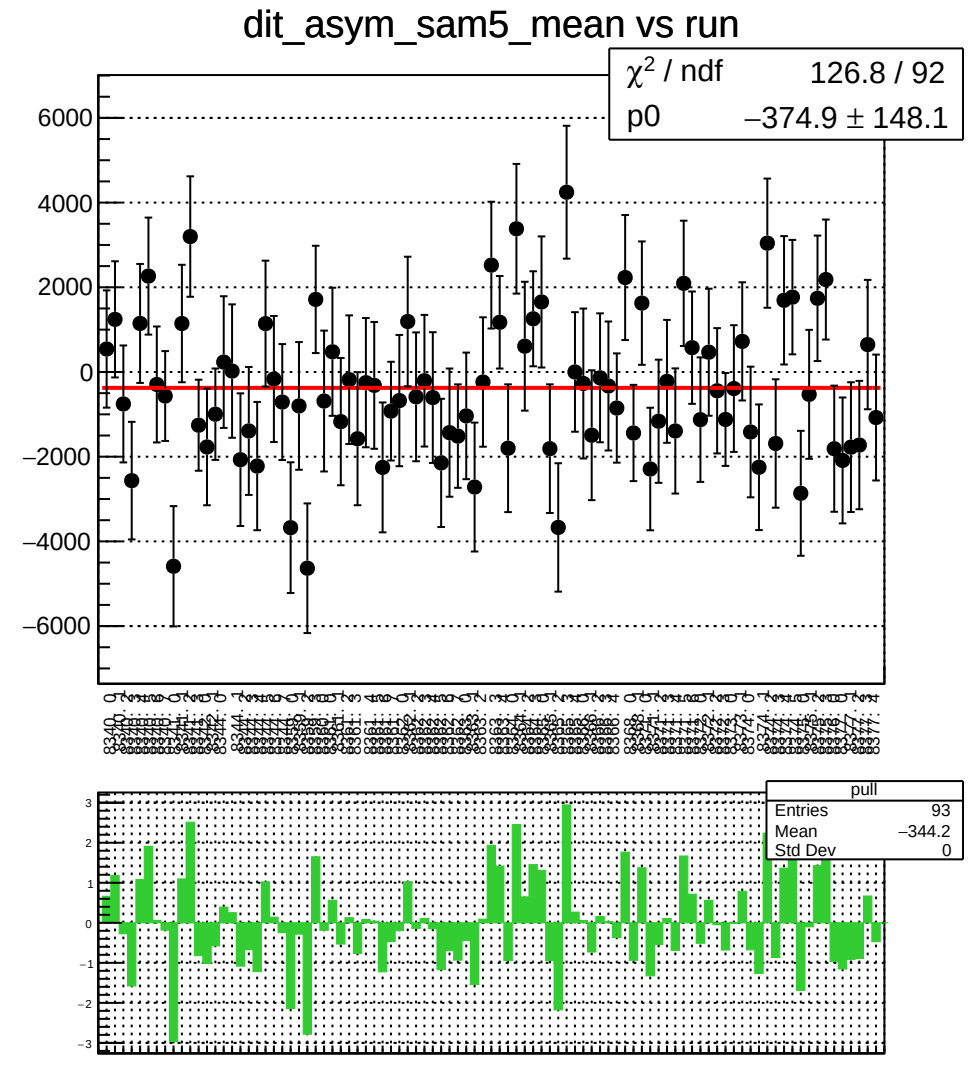

pull1D
Entries 93
Mean 0.0004169
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

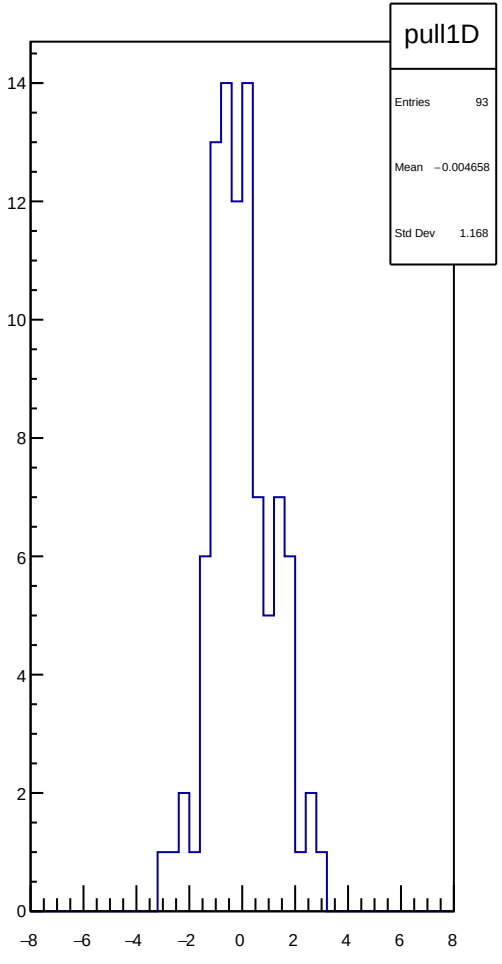

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 6648 / 92
p0 131.6 ± 0.0974
190
180
170
160
150
140
130
120

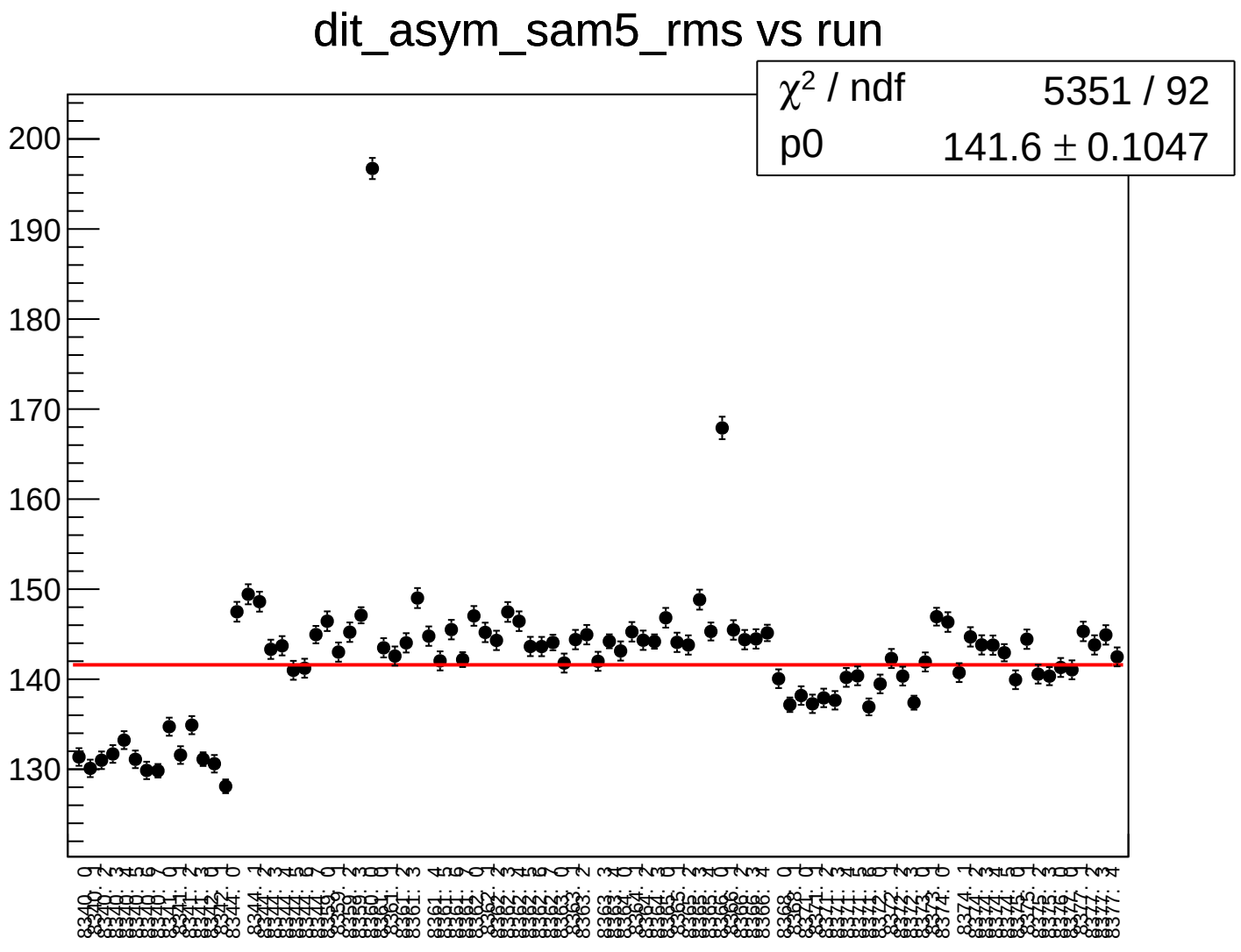

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 83.76 / 92
p0 −3094 ± 1051
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −1676
Std Dev 0
2
1
0
−1
−2
−3

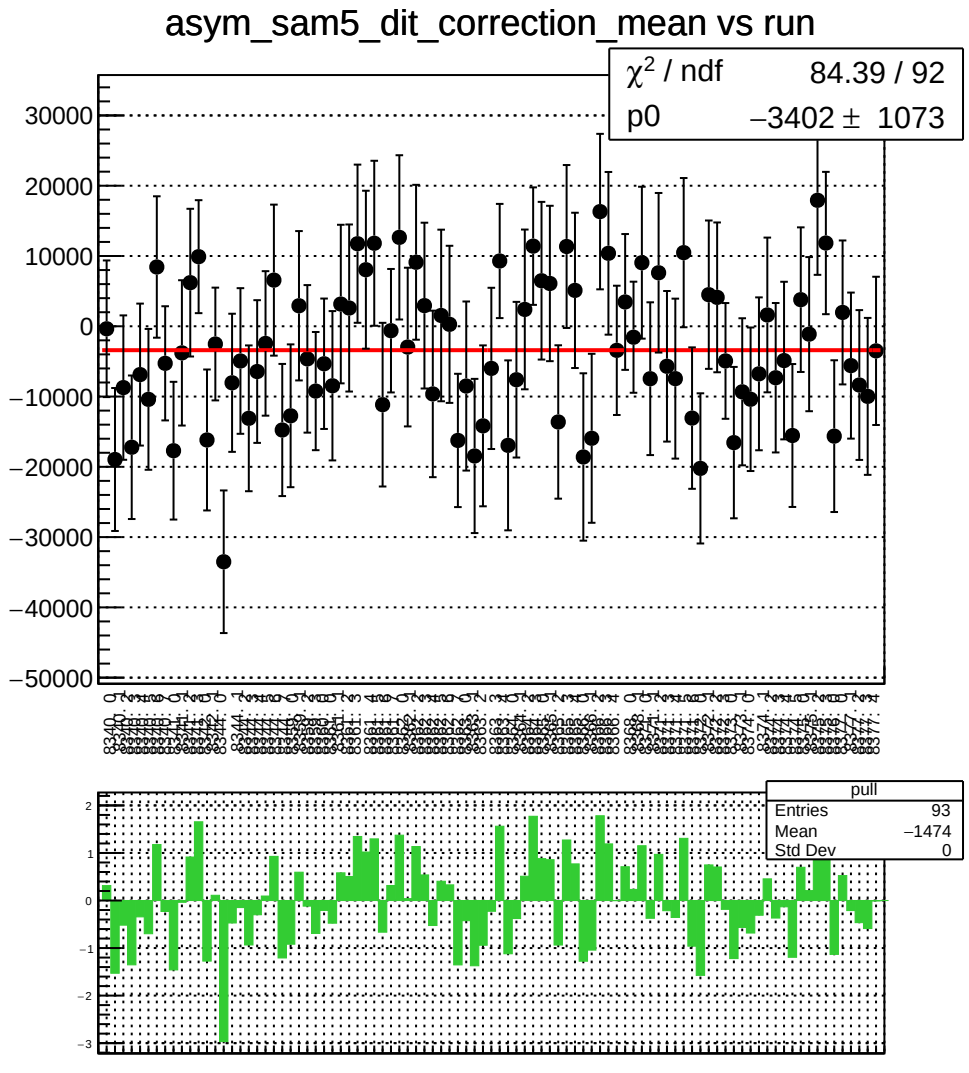

pull1D
Entries 93
Mean −0.001782
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

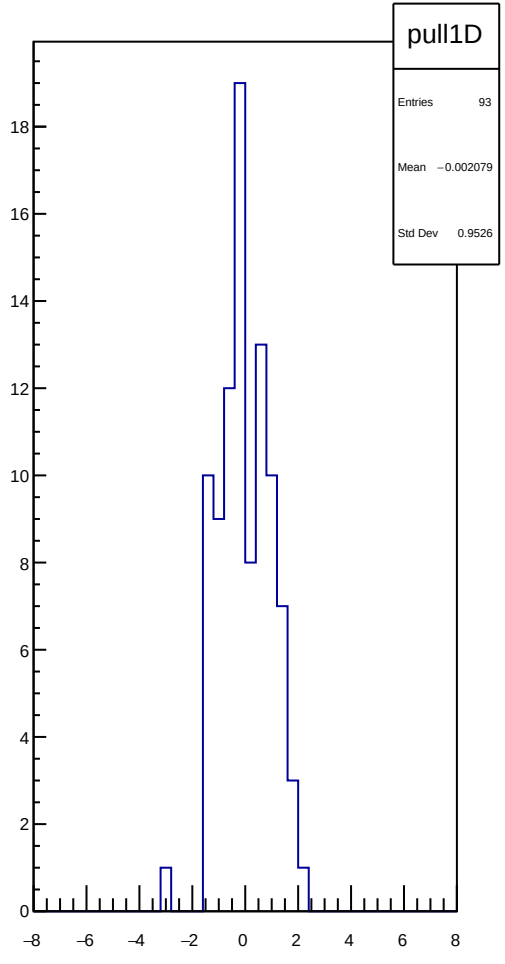

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 6460 / 92
p0 1005 ± 0.7433
1150
1100
1050
1000
950
900

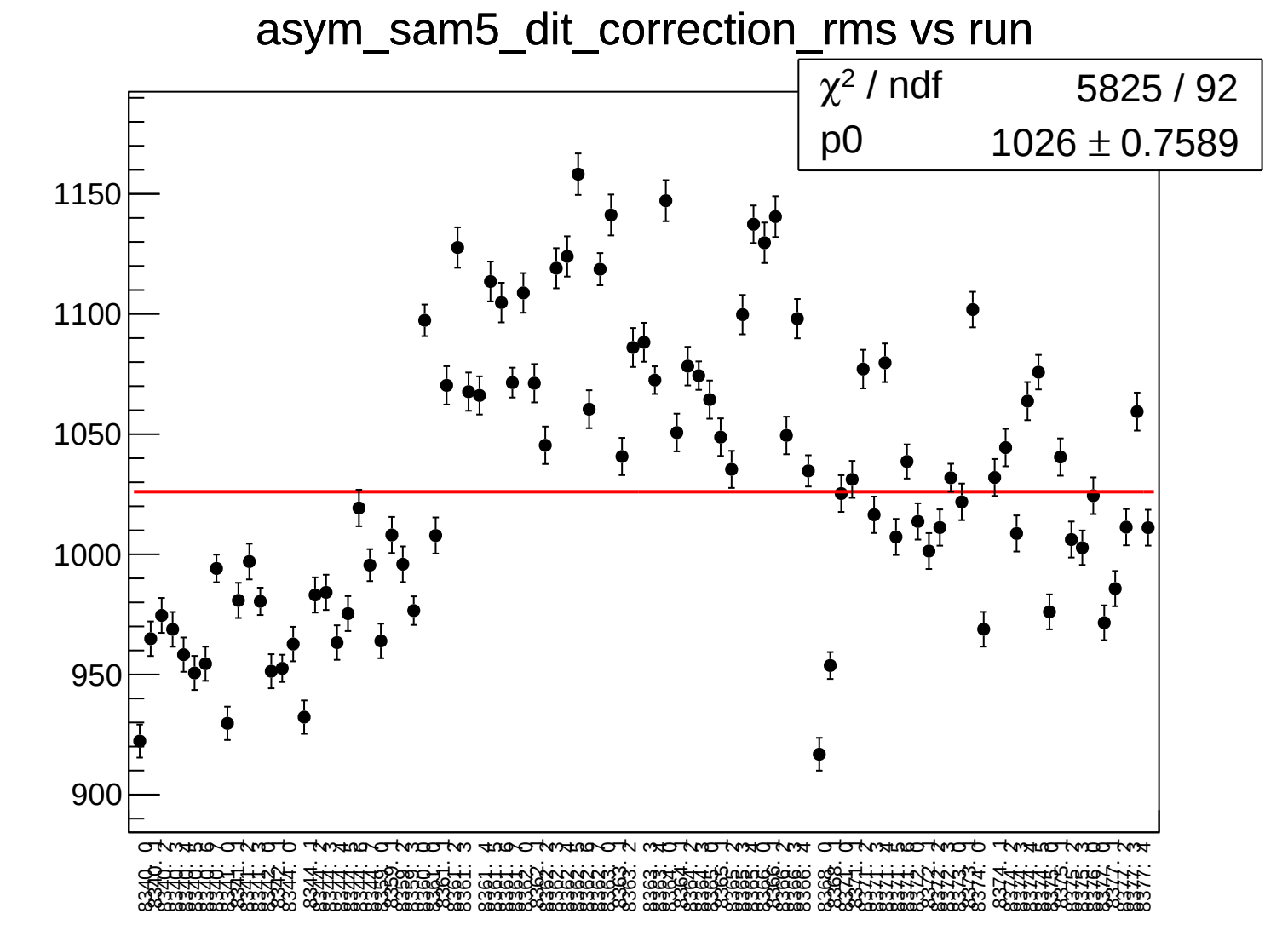

dit_asym_sam5_mean vs run
χ² / ndf 126.8 / 92
p0 −374.9 ± 148.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −344.2
Std Dev 0
3
2
1
0
−1
−2
−3

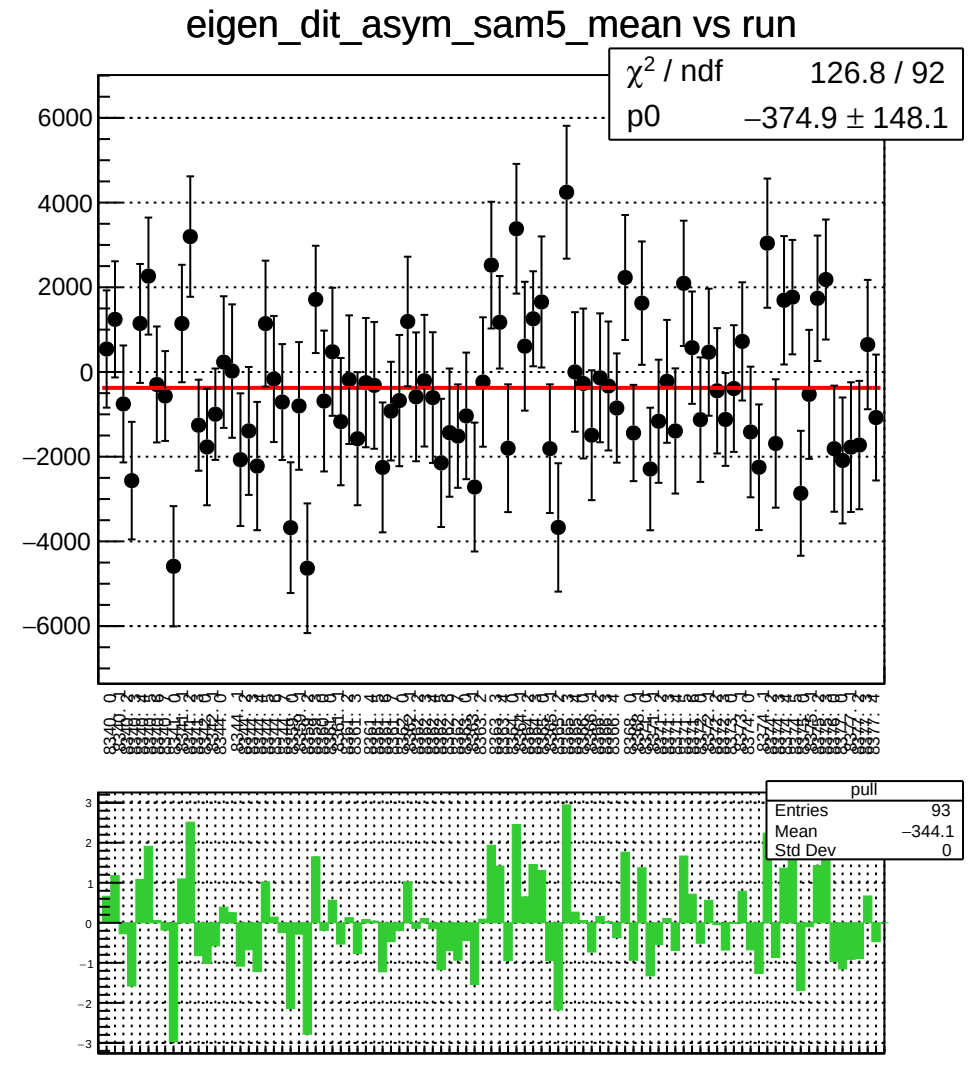

pull1D
Entries 93
Mean −0.004658
Std Dev 1.168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

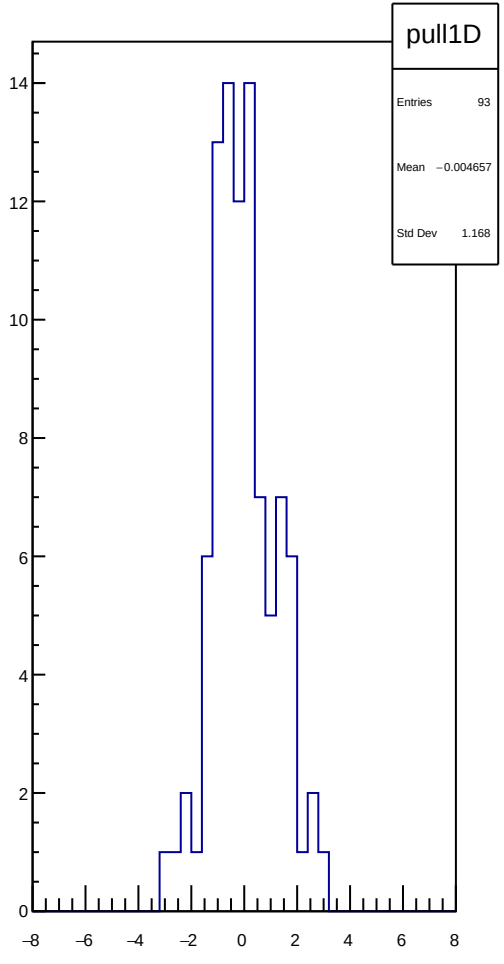

dit_asym_sam5_rms vs run
χ² / ndf 5351 / 92
p0 141.6 ± 0.1047
200
190
180
170
160
150
140
130

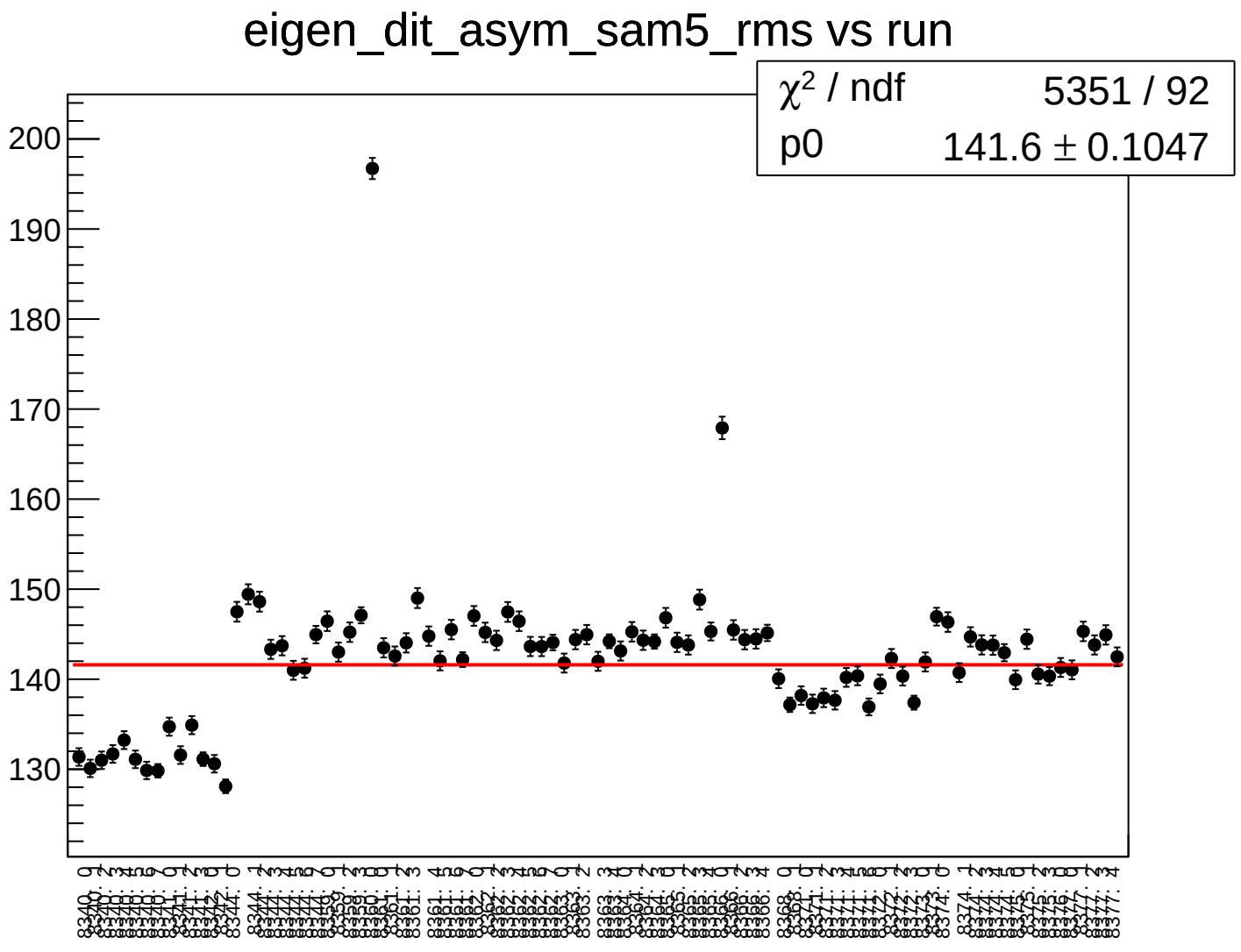

asym_sam5_dit_correction_mean vs run
χ² / ndf 84.39 / 92
p0 −3402 ± 1073
pull
Entries 93
Mean −1474
Std Dev 0

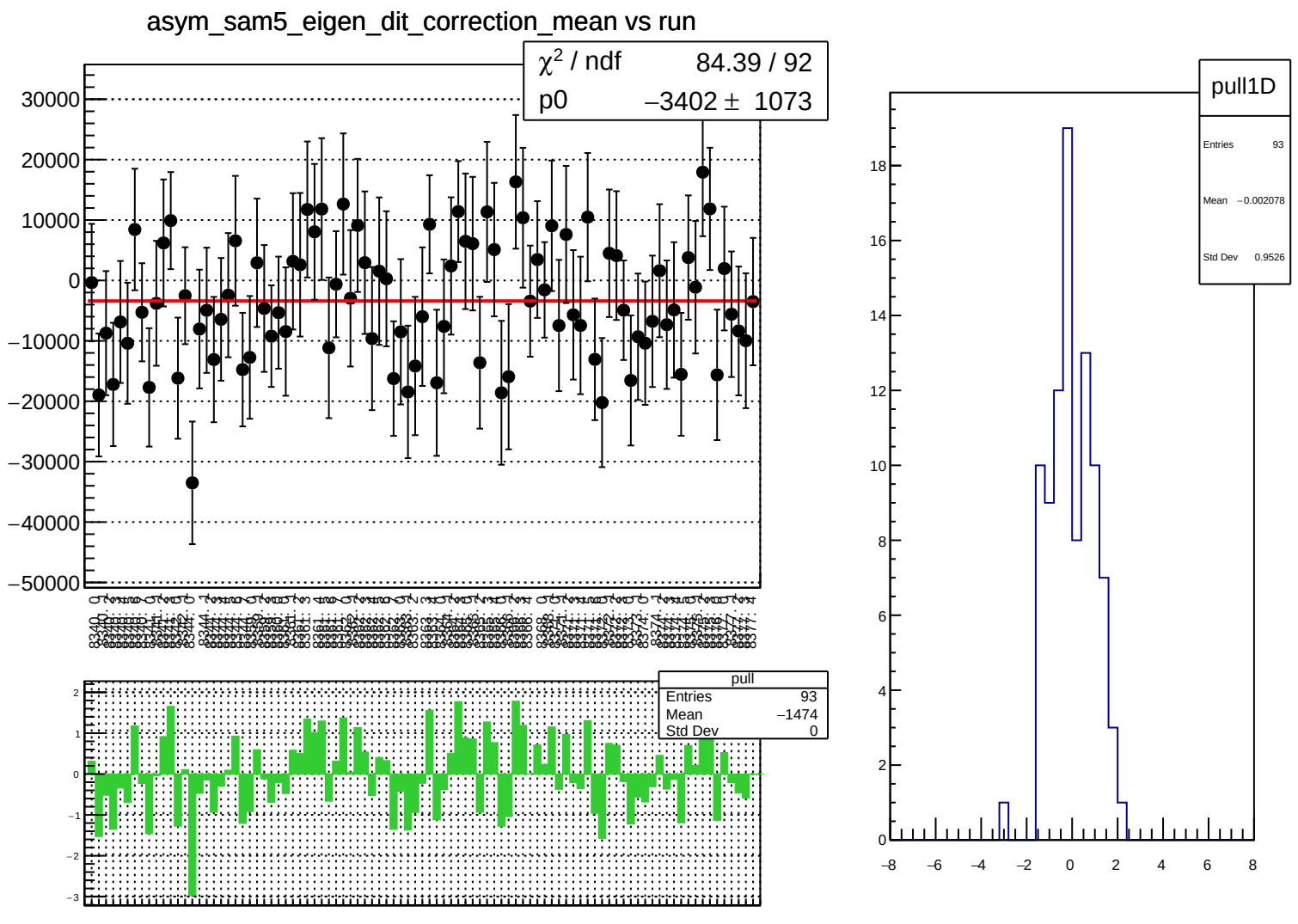

pull1D
Entries 93
Mean −0.002079
Std Dev 0.9526

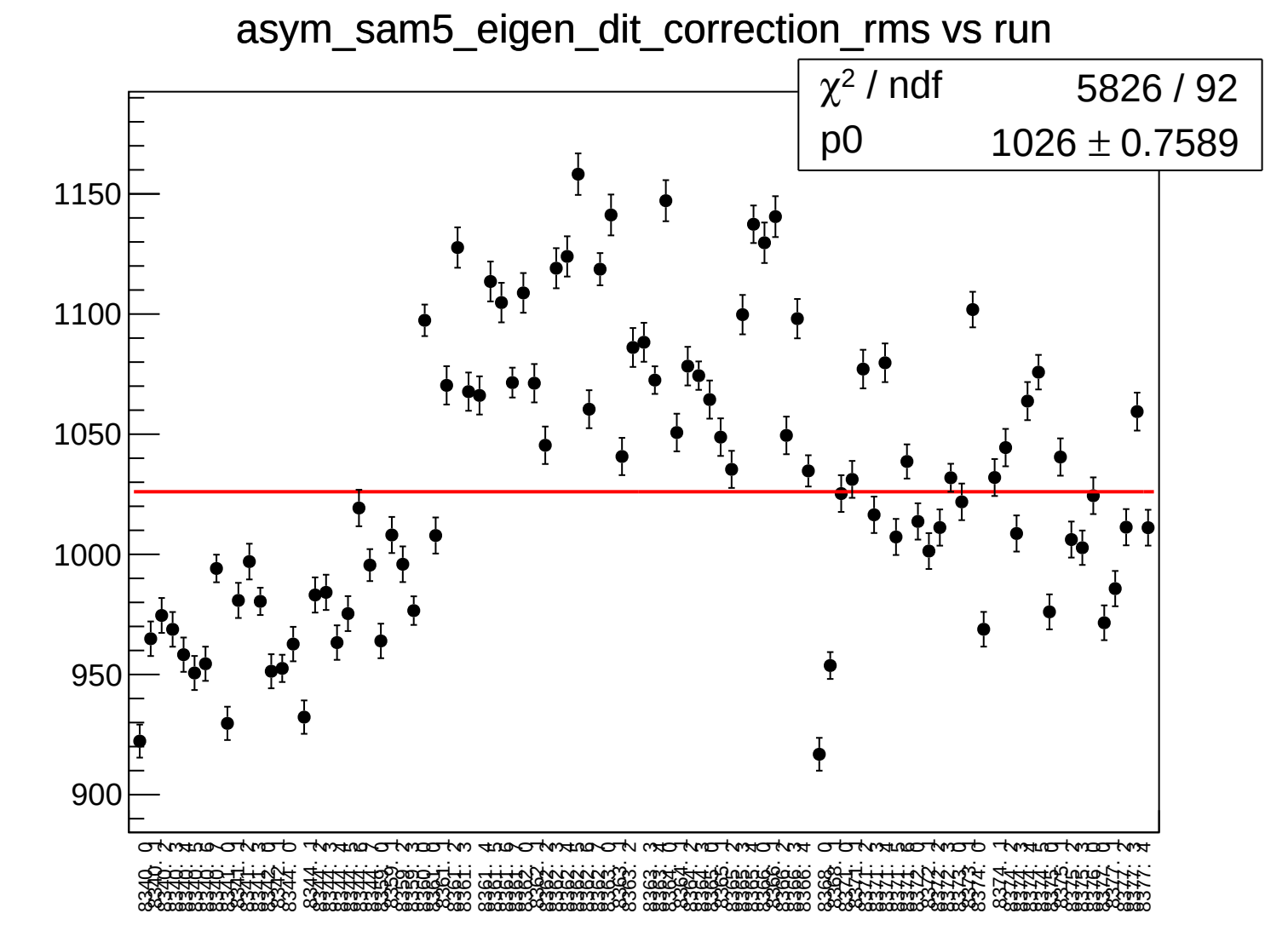

asym_sam5_dit_correction_rms vs run
χ² / ndf 5825 / 92
p0 1026 ± 0.7589
1150
1100
1050
1000
950
900

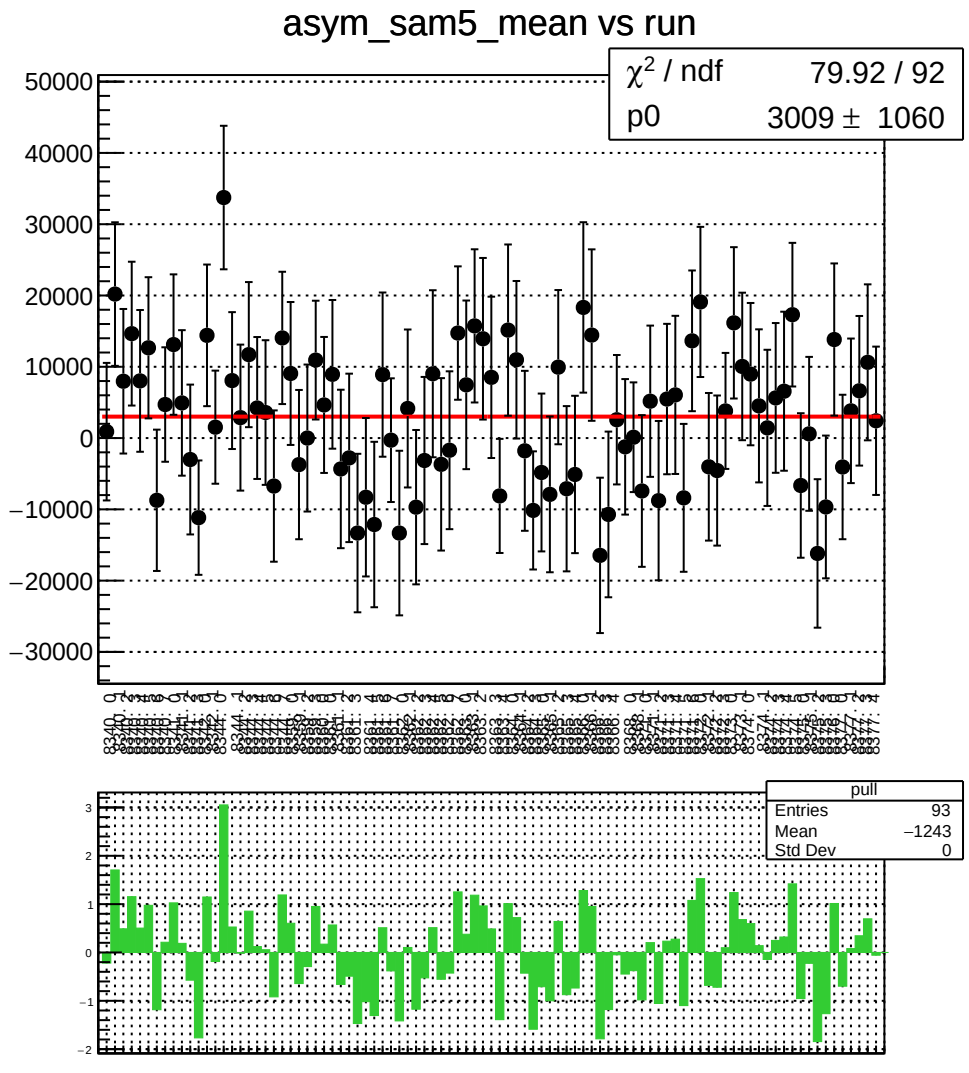

eigen_dit_asym_sam5_mean vs run
χ² / ndf 126.8 / 92
p0 −374.9 ± 148.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −344.1
Std Dev 0
3
2
1
0
−1
−2
−3

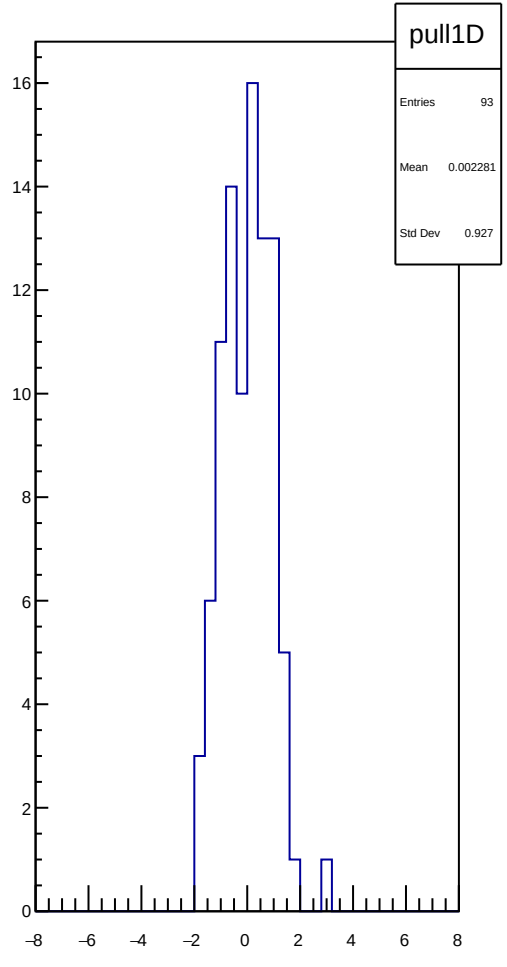

pull1D
Entries 93
Mean −0.004657
Std Dev 1.168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

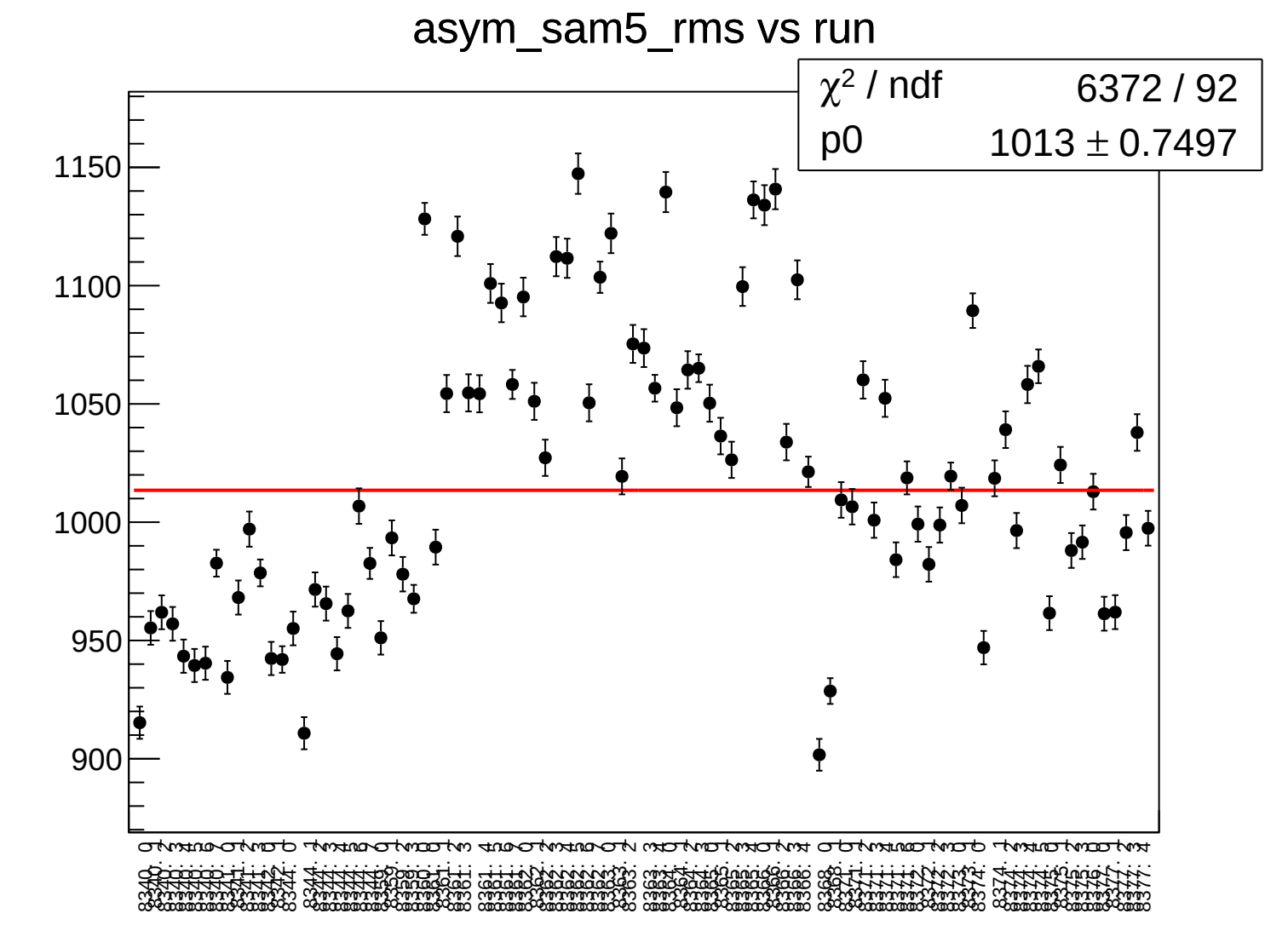

eigen_dit_asym_sam5_rms vs run
χ² / ndf 5351 / 92
p0 141.6 ± 0.1047
200
190
180
170
160
150
140
130

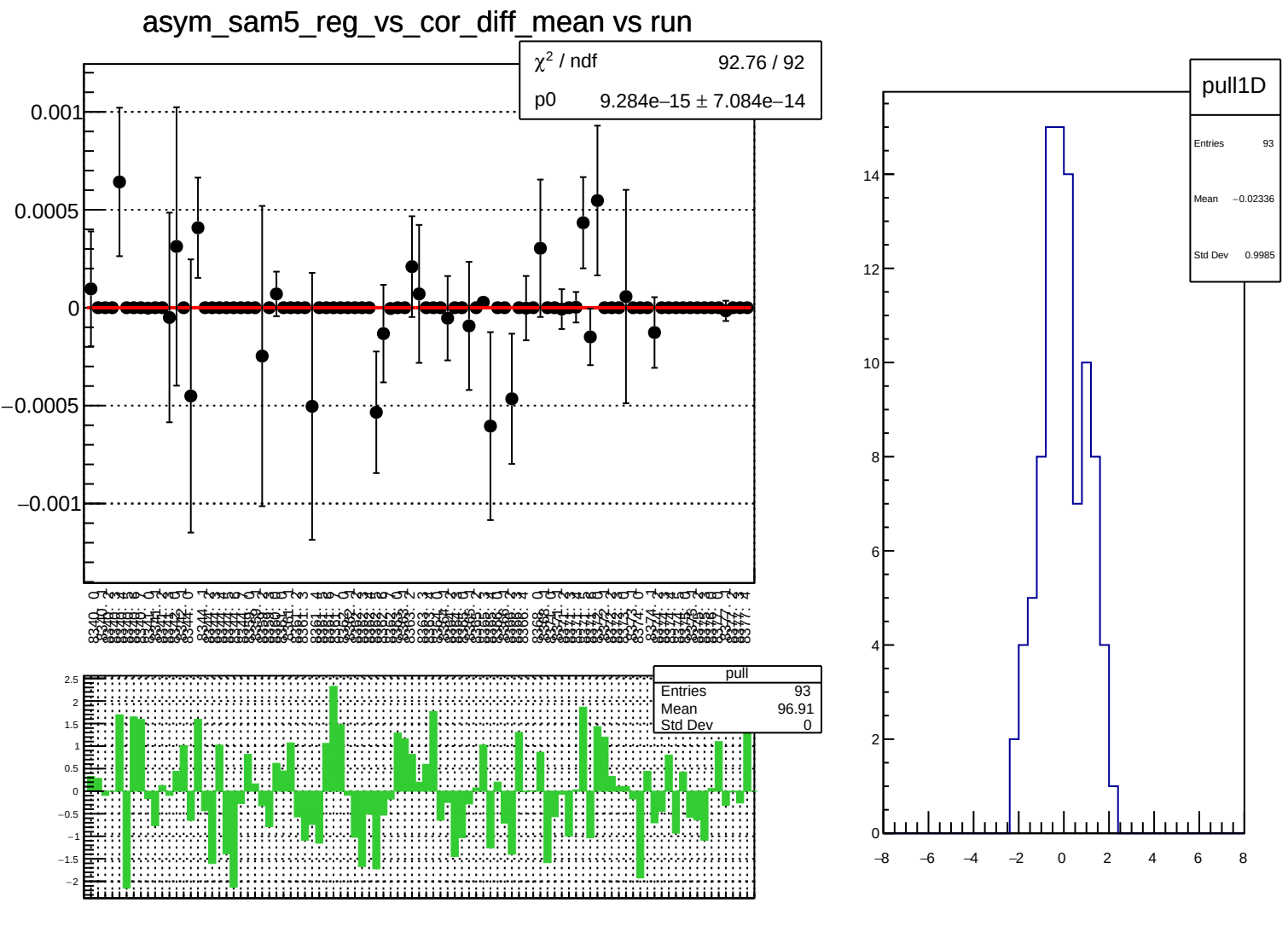

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 84.39 / 92
p0 −3402 ± 1073
pull
Entries 93
Mean −1474
Std Dev 0
pull1D
Entries 93
Mean −0.002078
Std Dev 0.9526

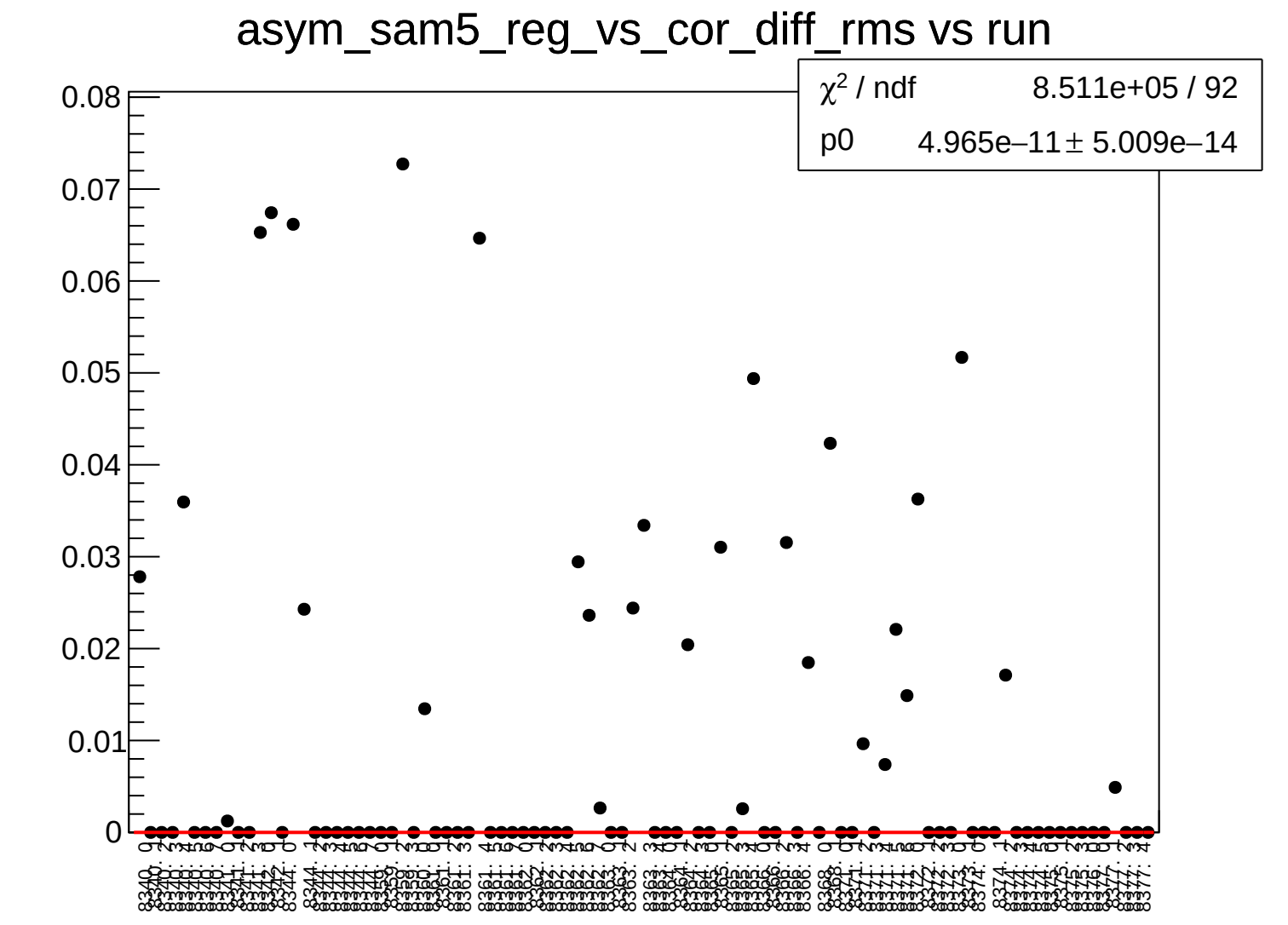

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 5826 / 92
p0 1026 ± 0.7589
1150
1100
1050
1000
950
900

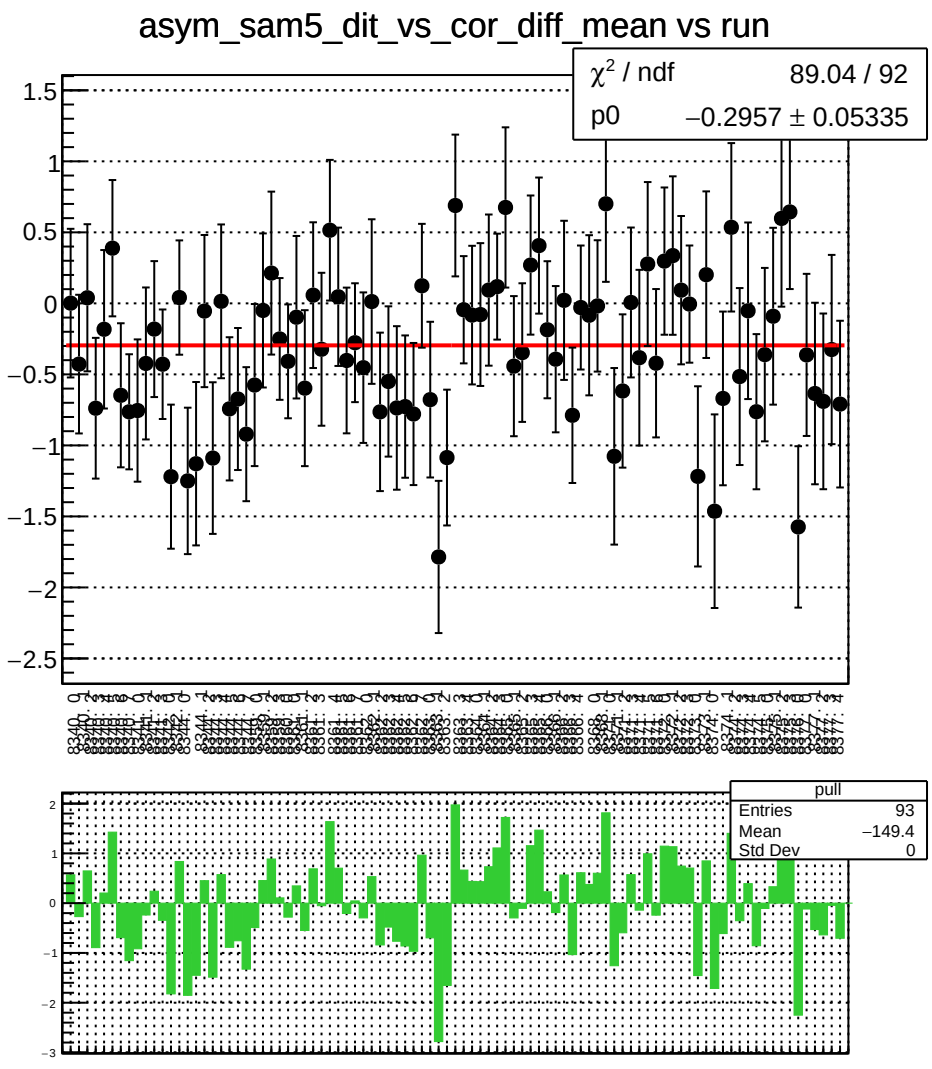

asym_sam5_mean vs run
χ² / ndf 79.92 / 92
p0 3009 ± 1060
pull
Entries 93
Mean −1243
Std Dev 0

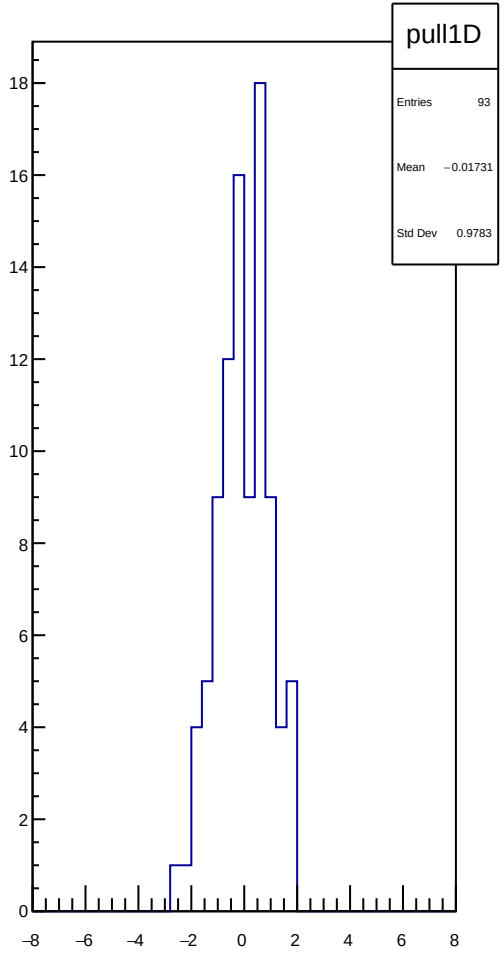

pull1D
Entries 93
Mean 0.002281
Std Dev 0.927

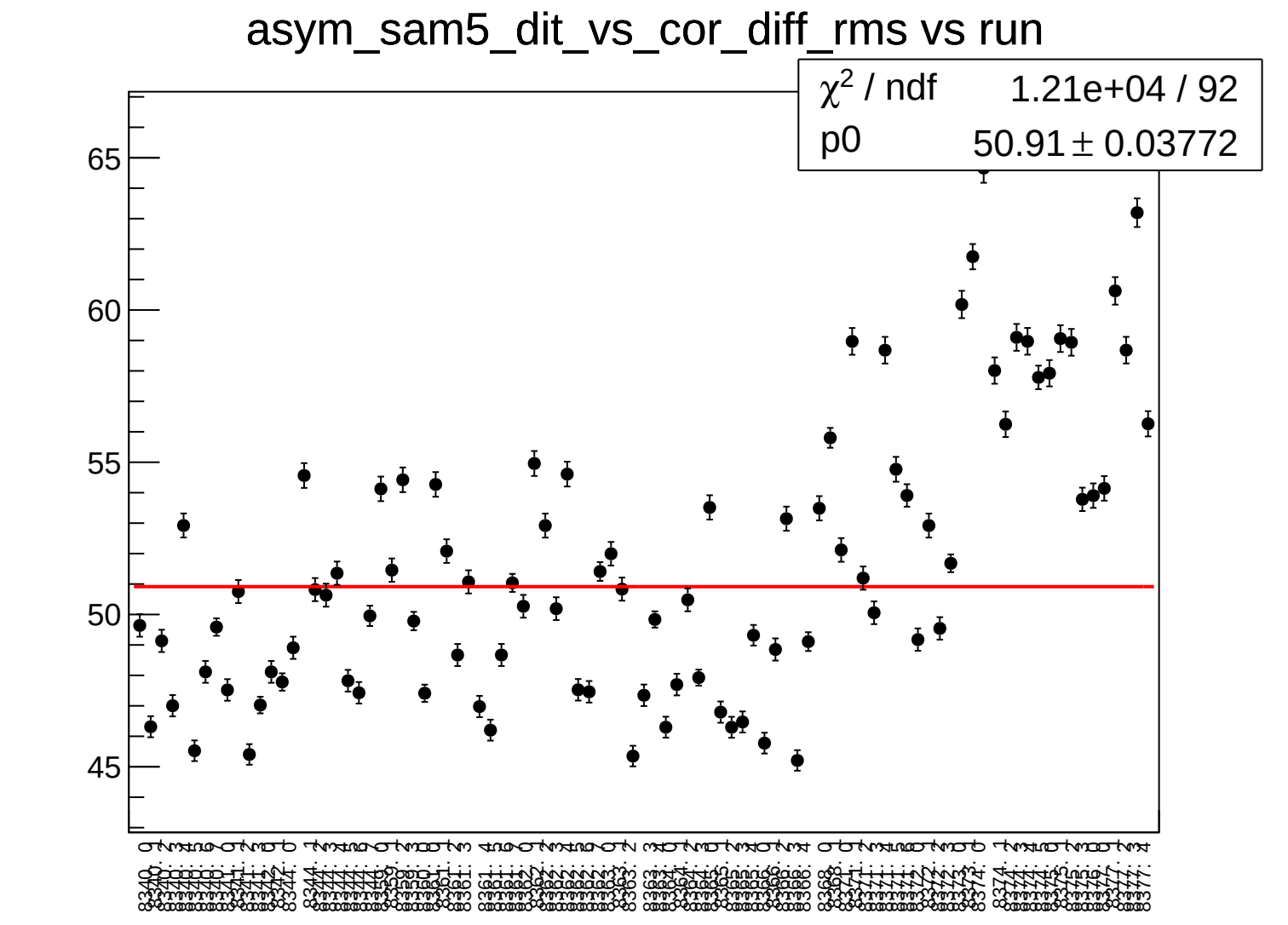

asym_sam5_rms vs run
χ² / ndf 6372 / 92
p0 1013 ± 0.7497
1150
1100
1050
1000
950
900

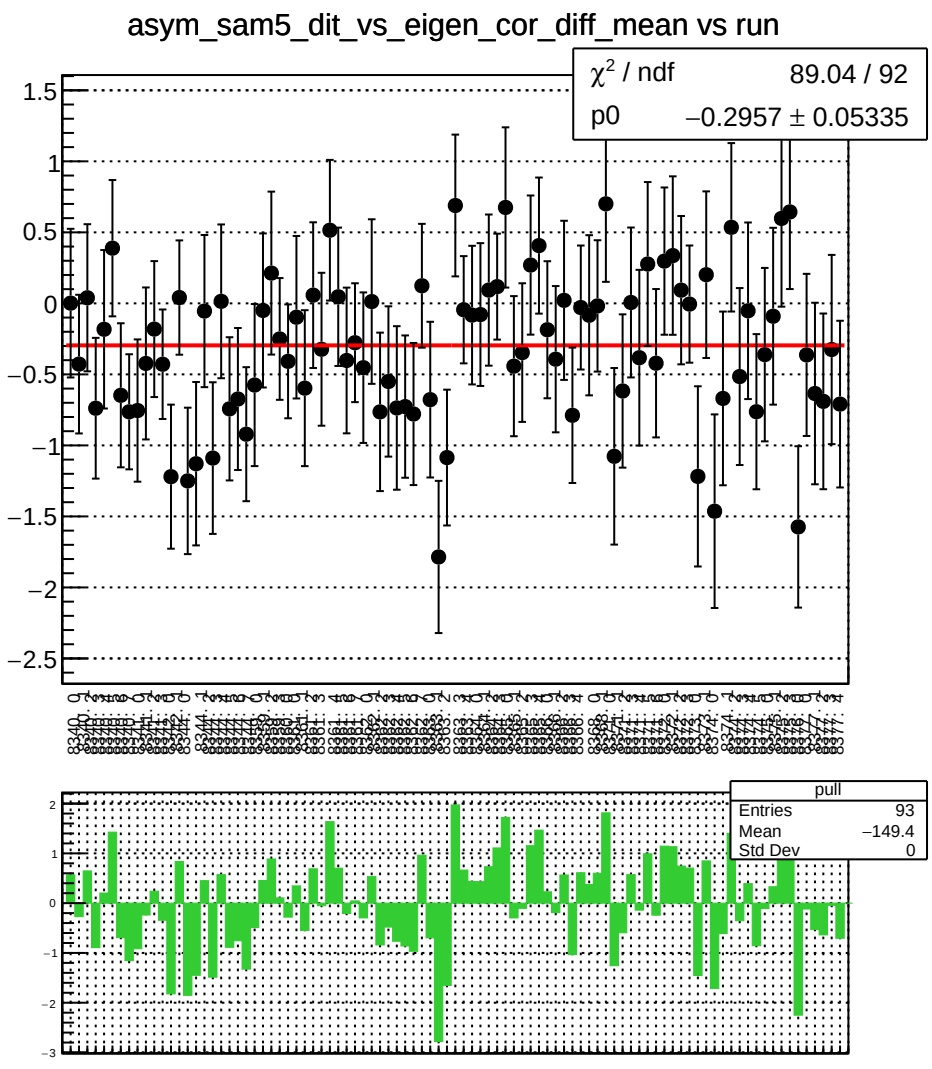

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 92.76 / 92
p0 9.284e−15 ± 7.084e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 96.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02336
Std Dev 0.9985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

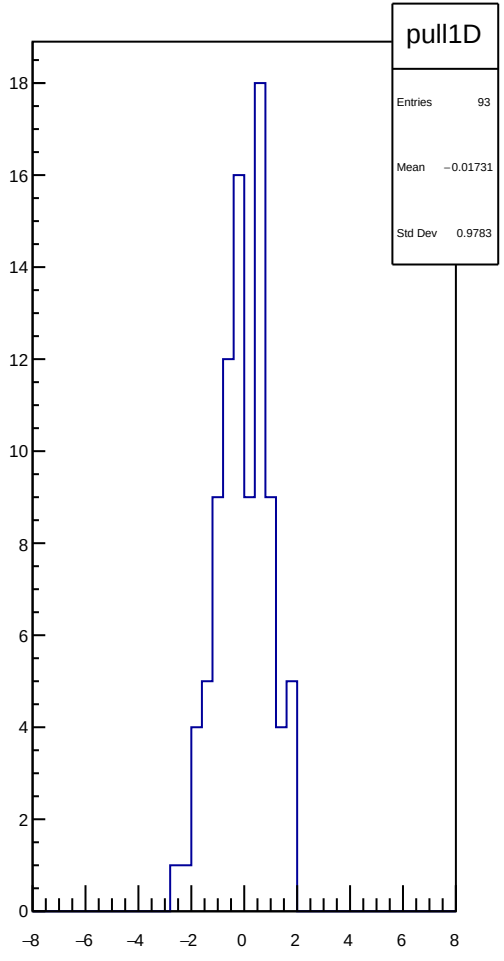

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 8.511e+05 / 92
p0 4.965e−11 ± 5.009e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

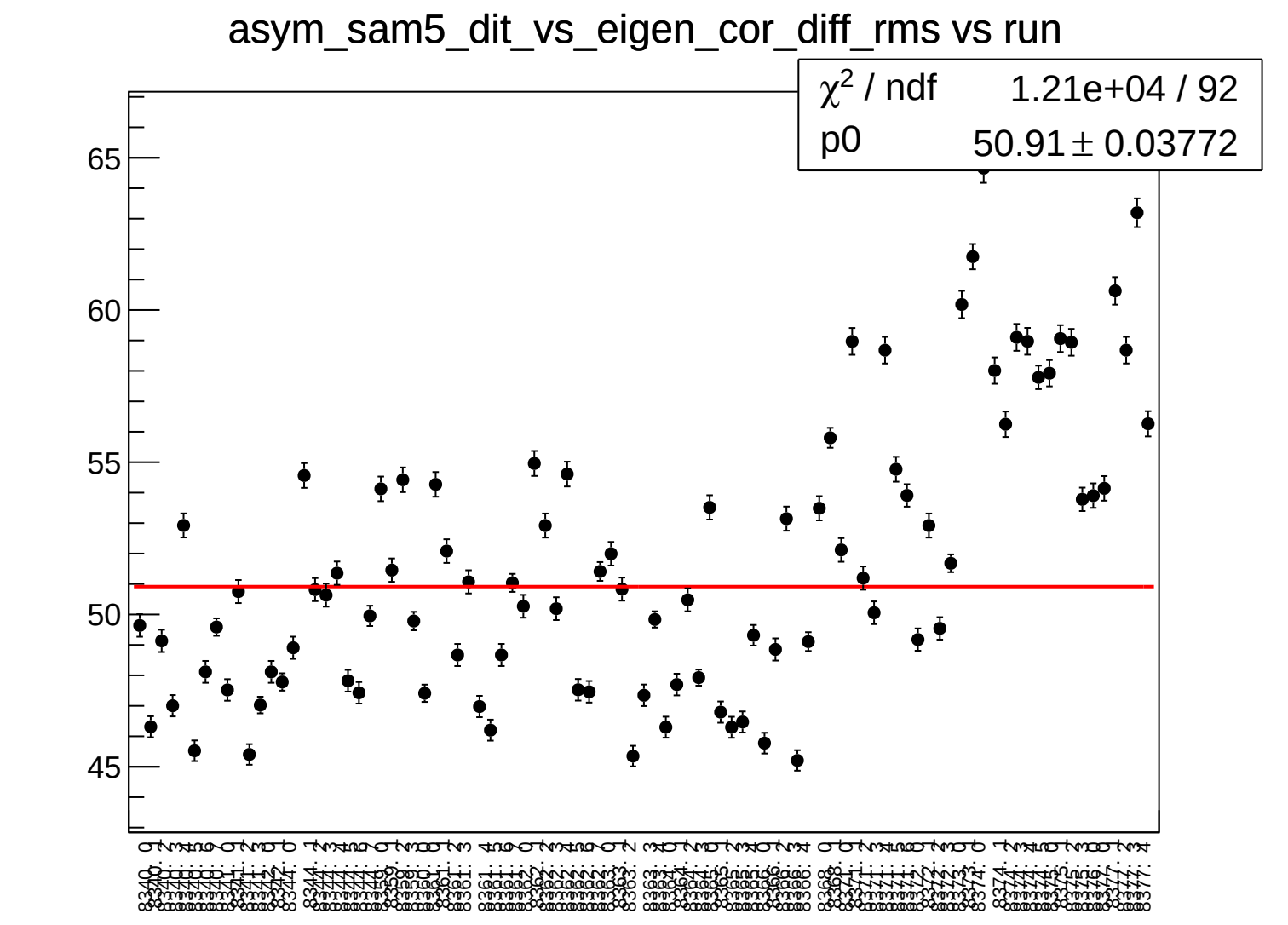

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 −0.2957 ± 0.05335
pull
Entries 93
Mean −149.4
Std Dev 0

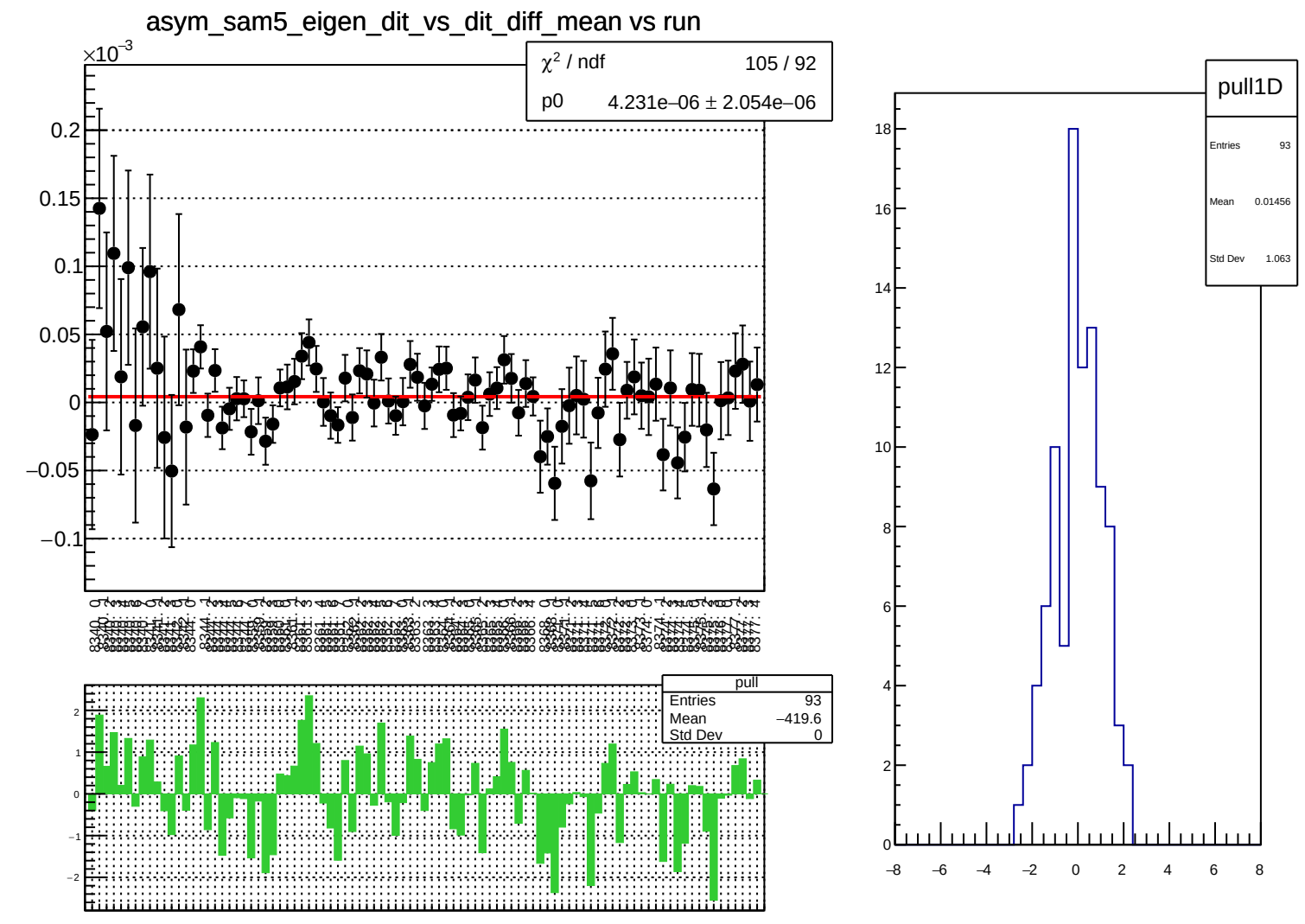

pull1D
Entries 93
Mean −0.01731
Std Dev 0.9783

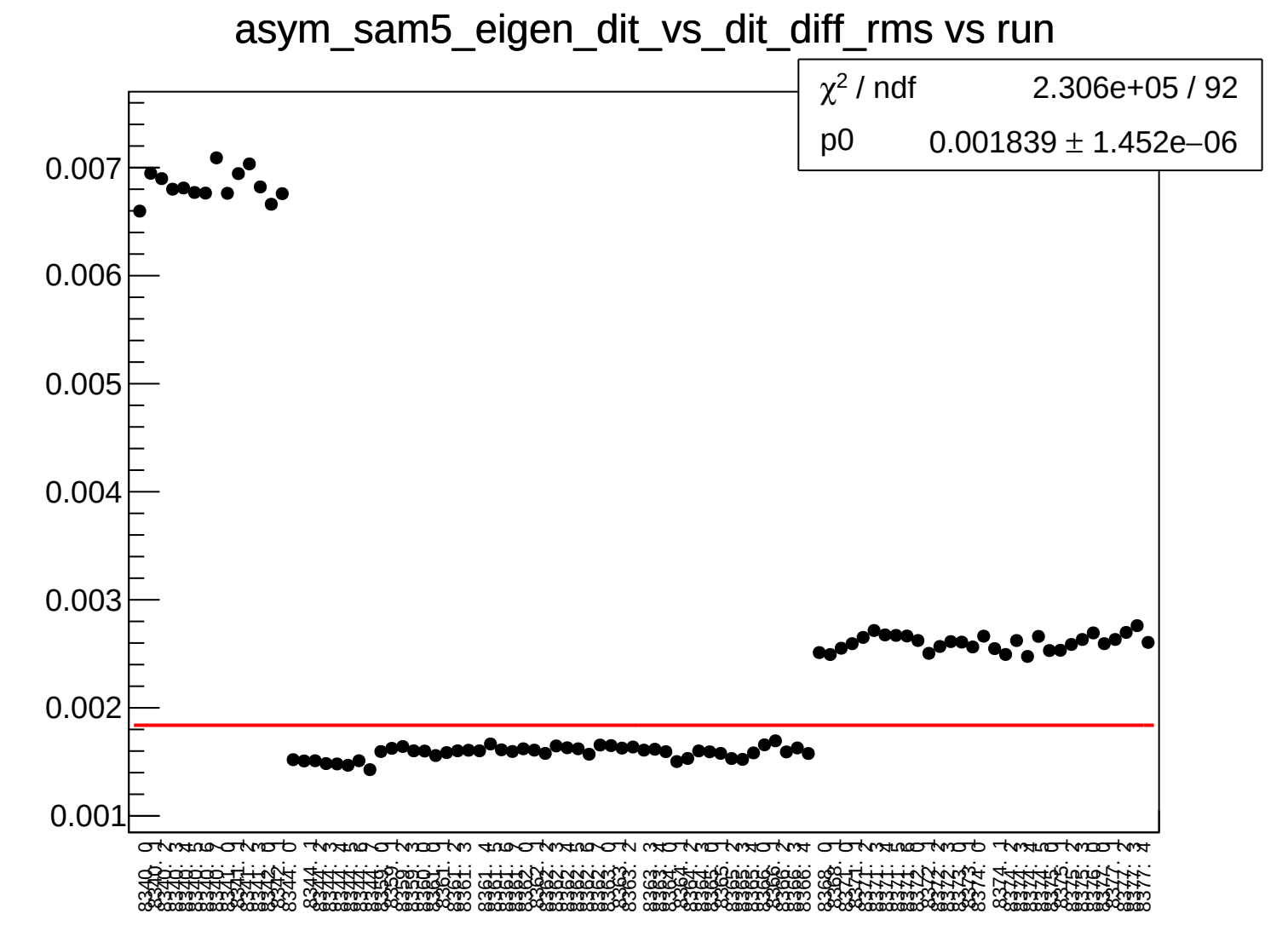

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.21e+04 / 92
p0 50.91 ± 0.03772
65
60
55
50
45

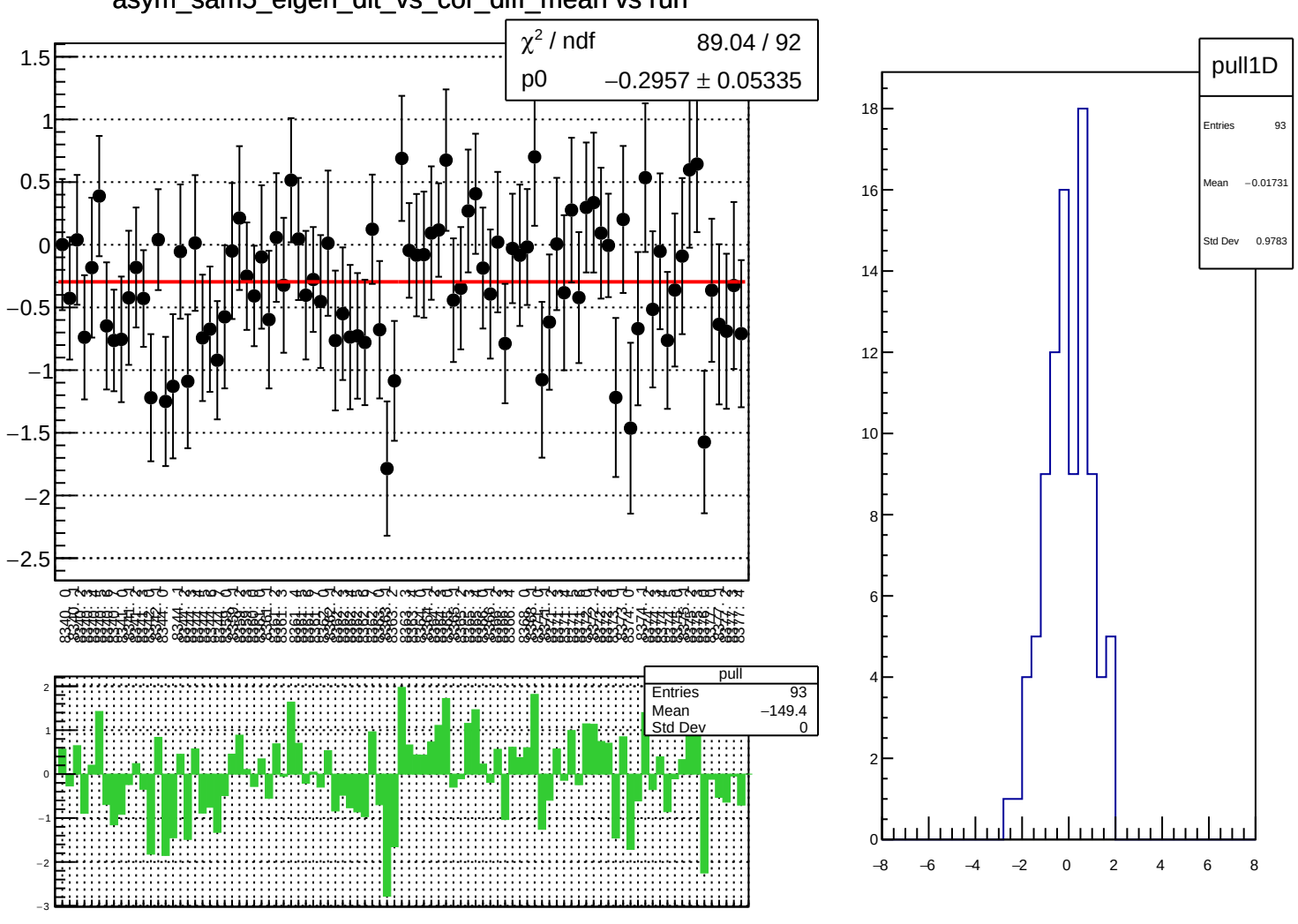

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 −0.2957 ± 0.05335
pull
Entries 93
Mean −149.4
Std Dev 0

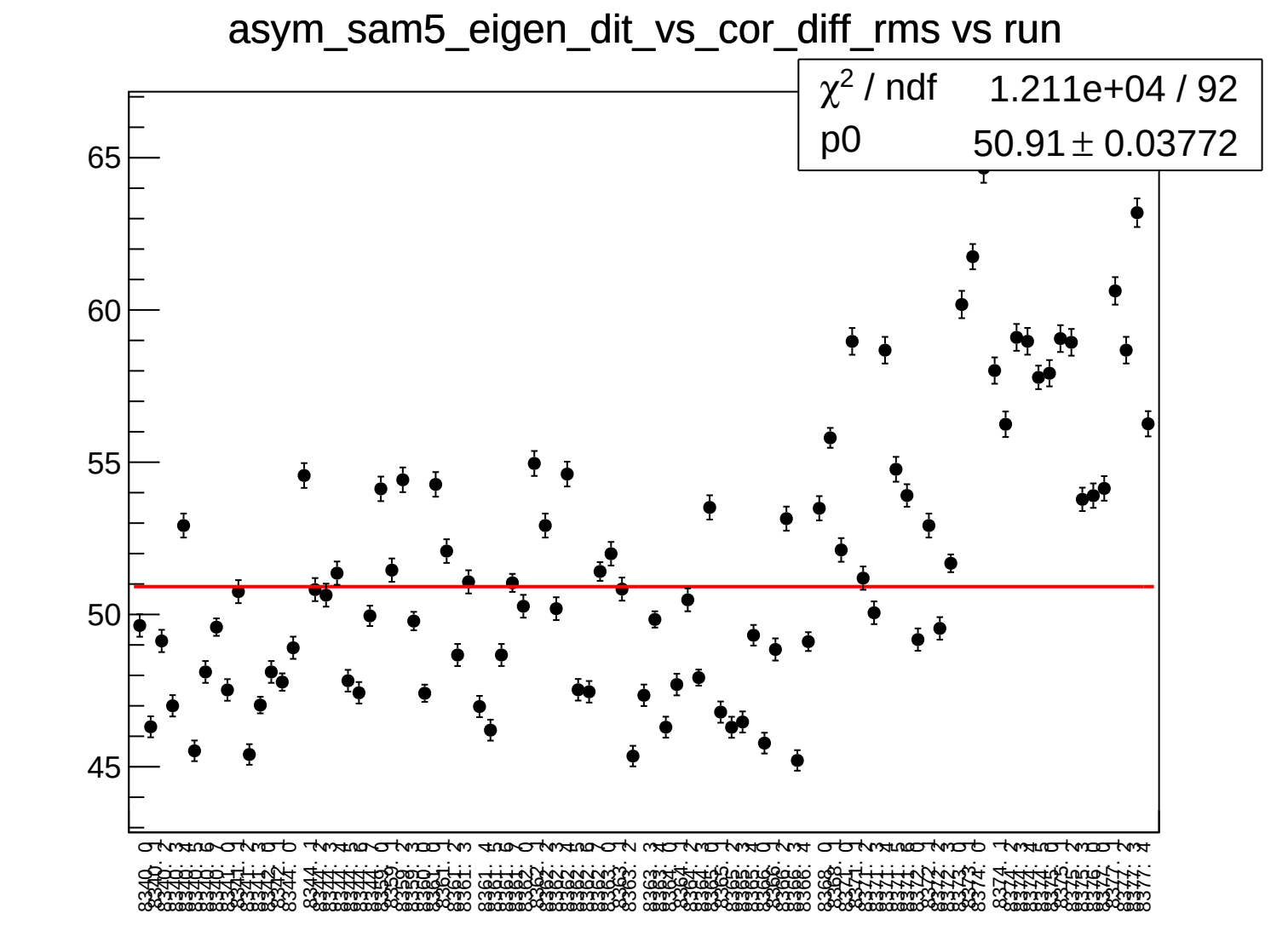

pull1D
Entries 93
Mean −0.01731
Std Dev 0.9783

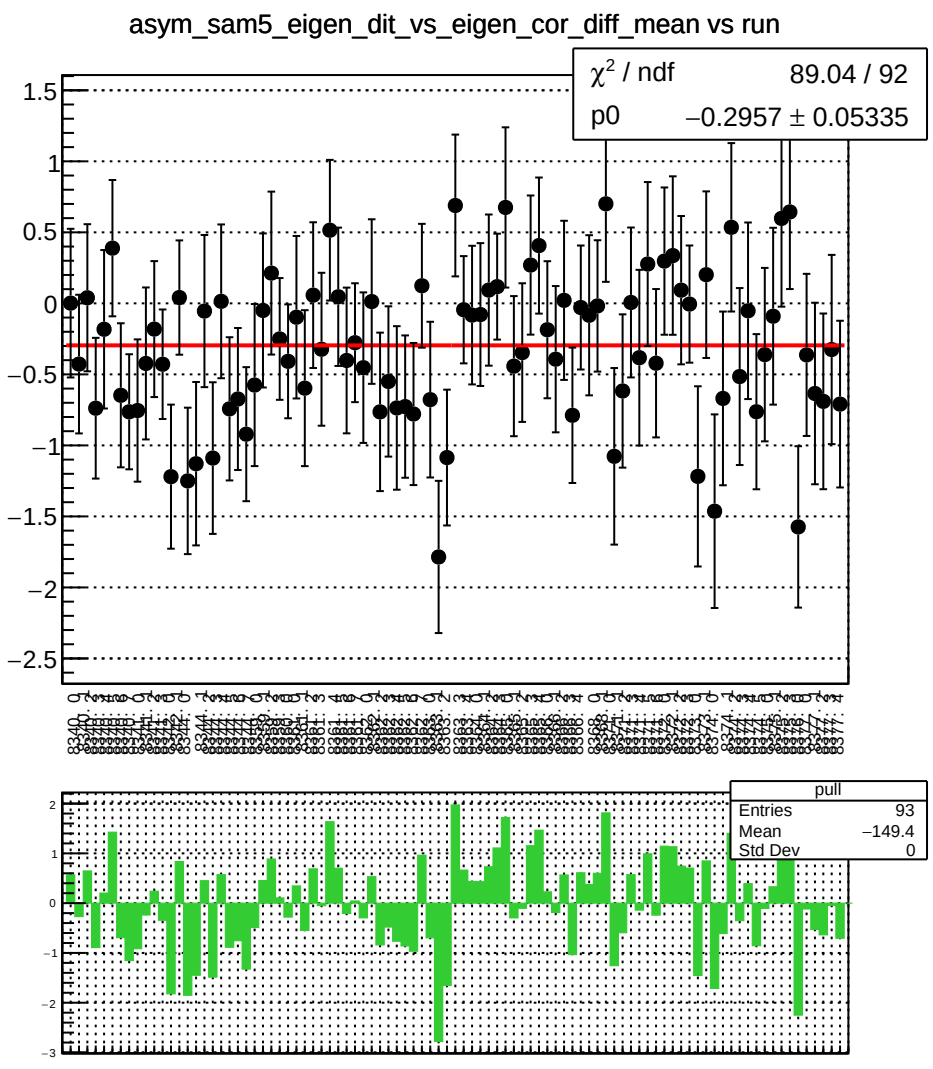

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.21e+04 / 92
p0 50.91 ± 0.03772
65
60
55
50
45

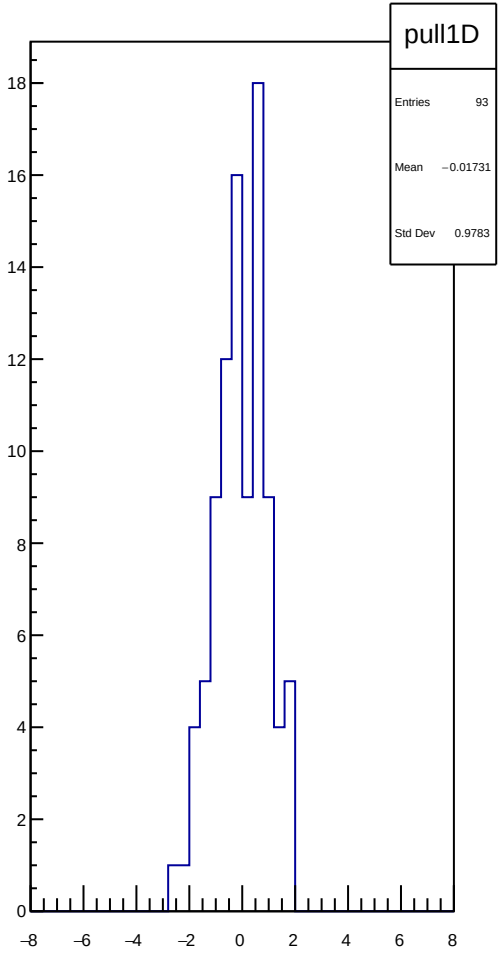

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105 / 92
p0 4.231e−06 ± 2.054e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −419.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01456
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

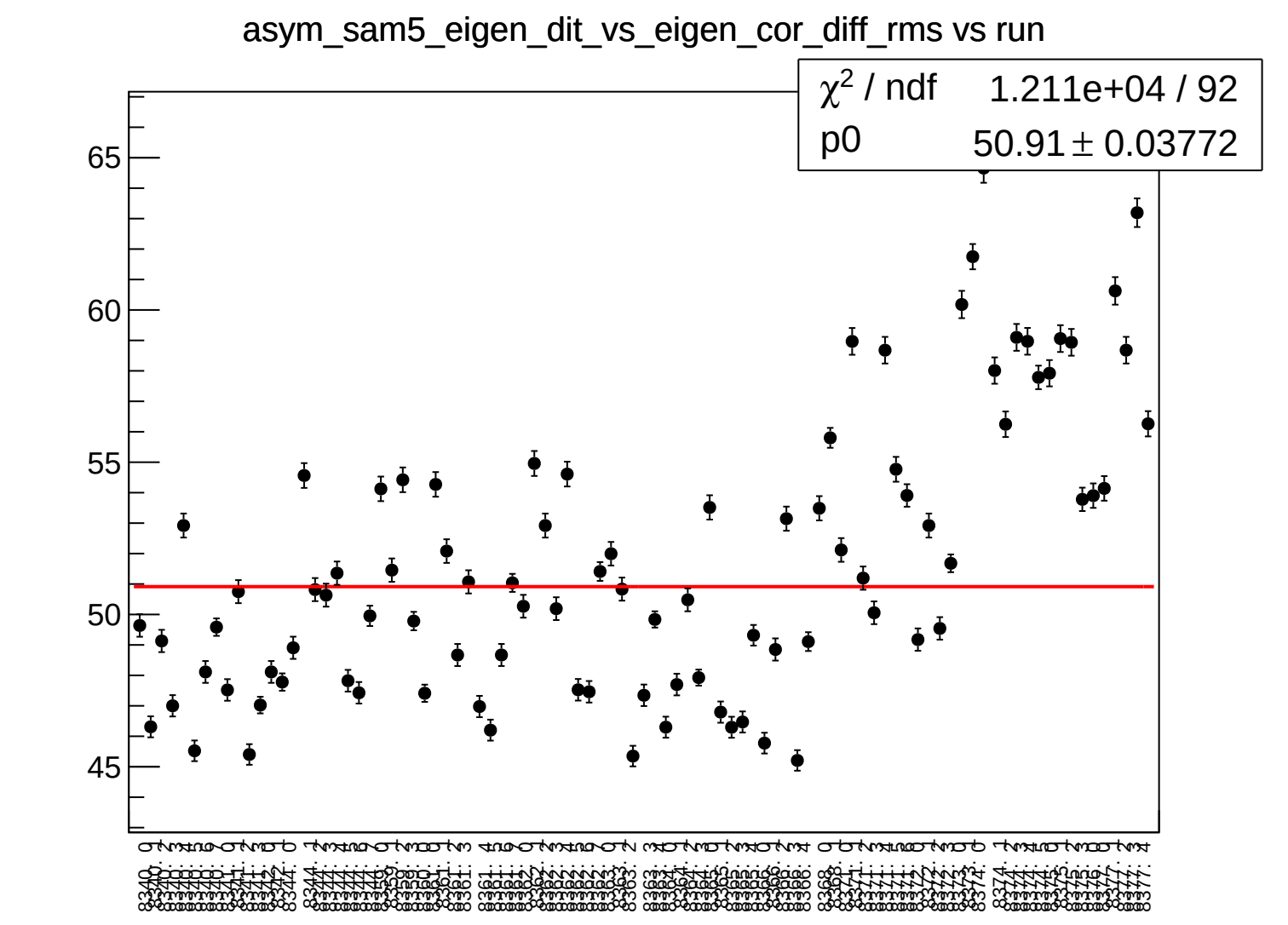

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.306e+05 / 92
p0 0.001839 ± 1.452e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

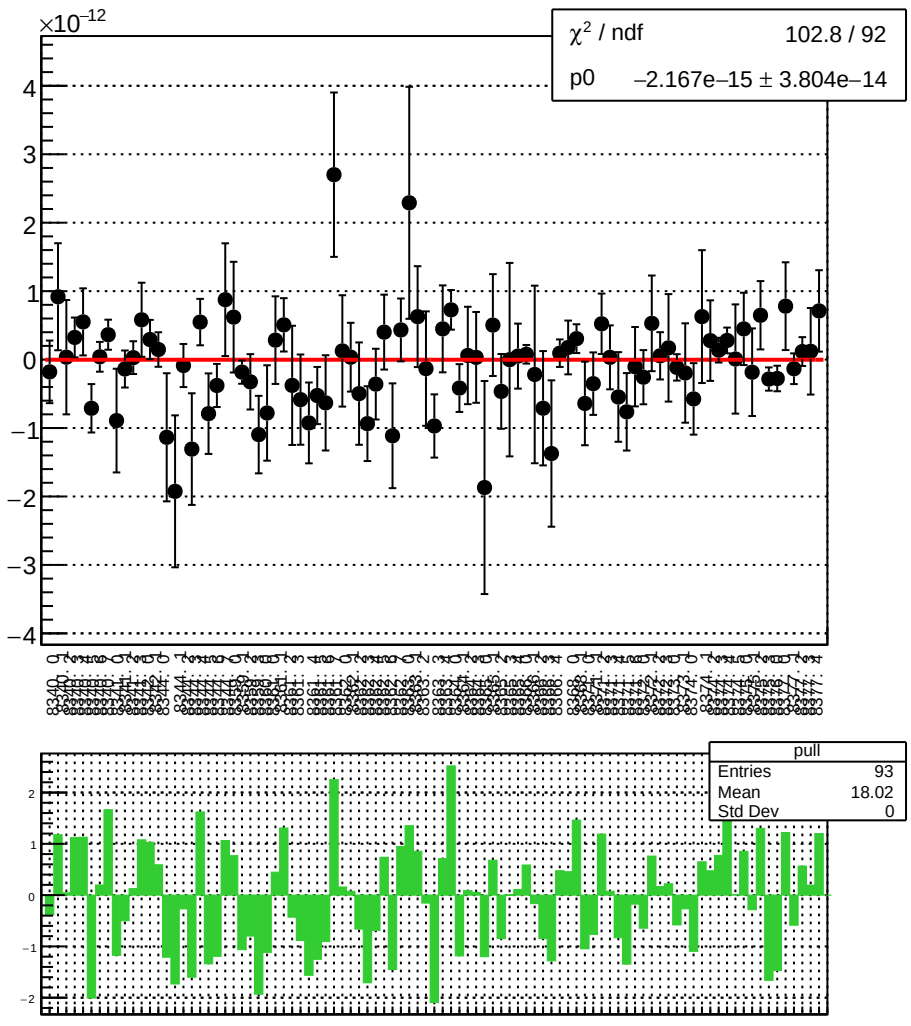

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 −0.2957 ± 0.05335
pull
Entries 93
Mean −149.4
Std Dev 0
pull1D
Entries 93
Mean −0.01731
Std Dev 0.9783

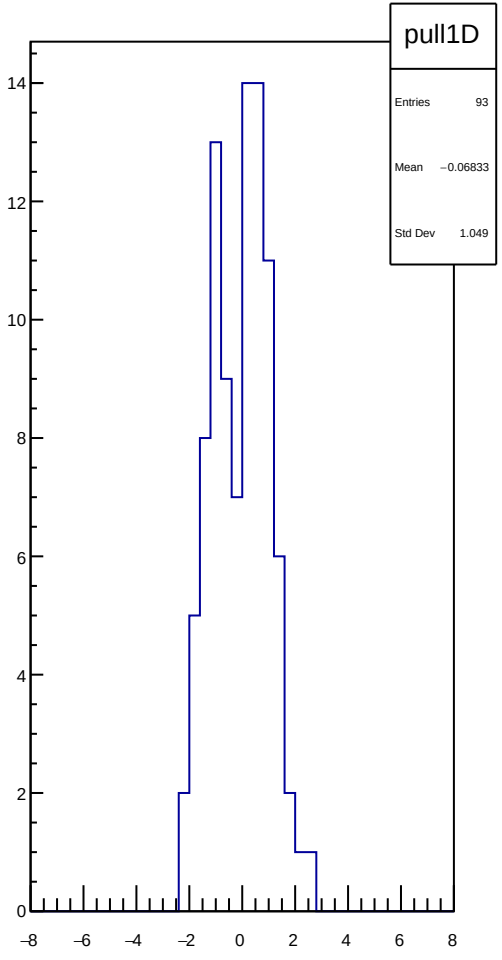

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 92
p0 50.91 ± 0.03772
65
60
55
50
45

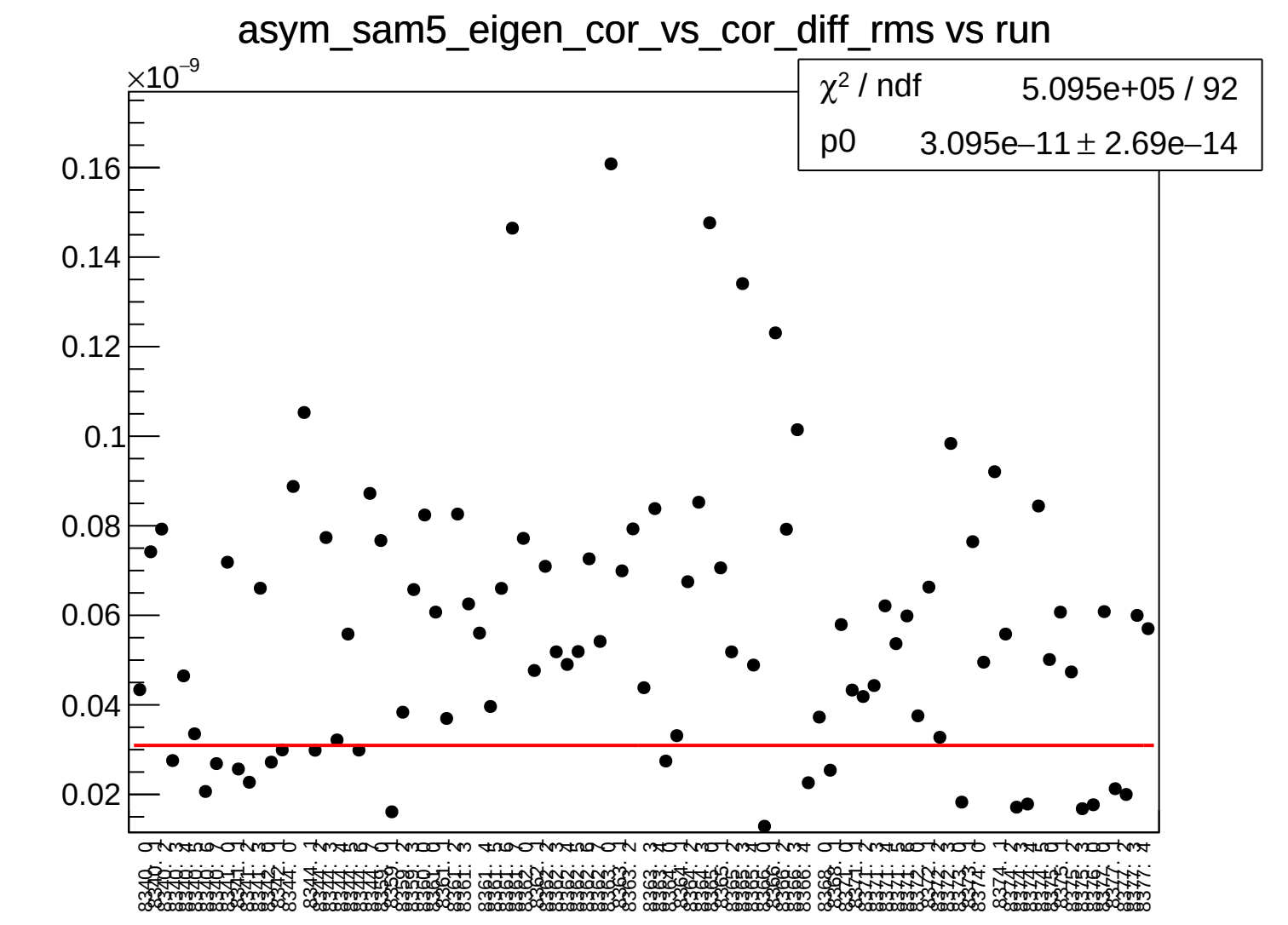

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 92
p0 −0.2957 ± 0.05335
pull
Entries 93
Mean −149.4
Std Dev 0

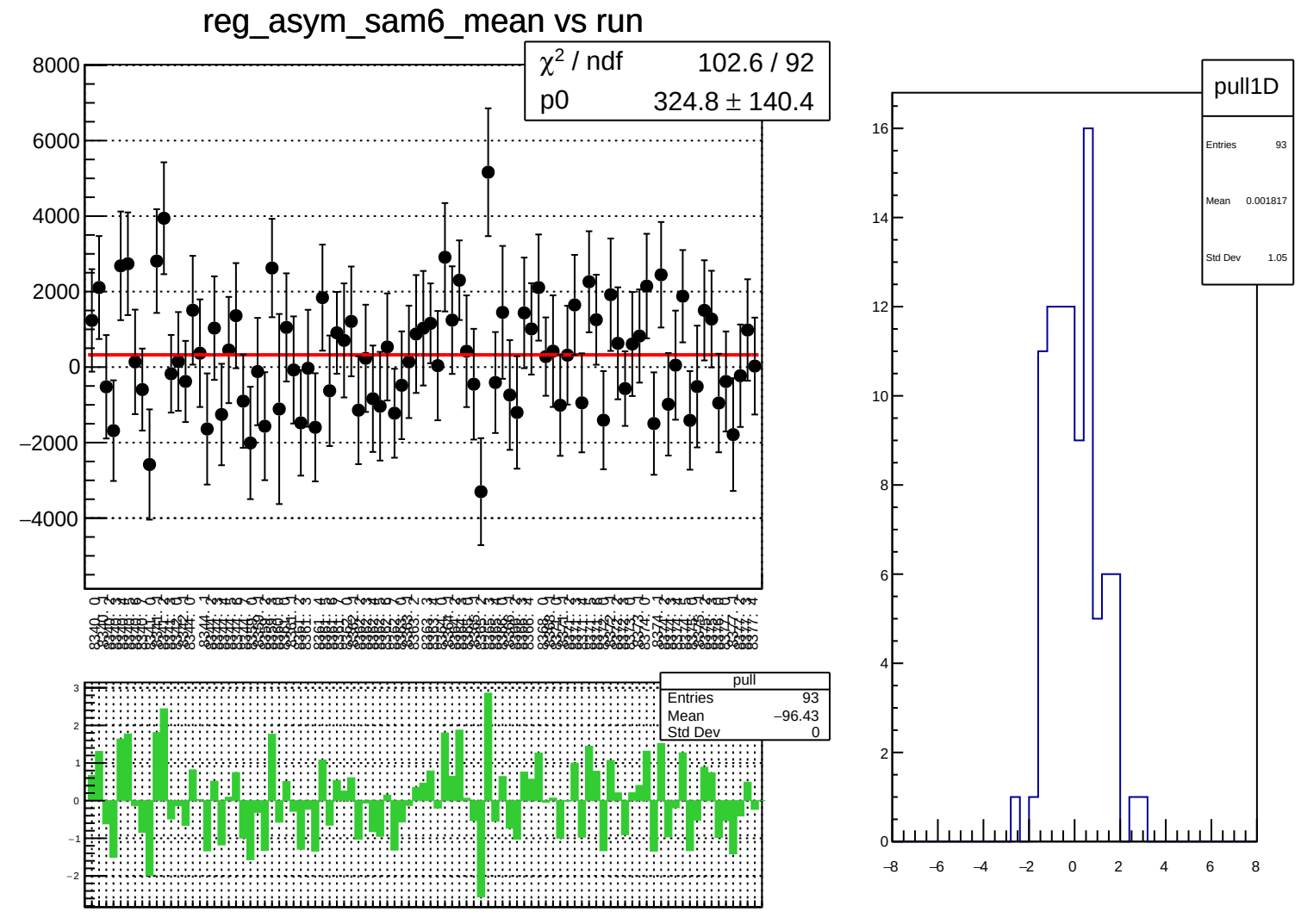

pull1D
Entries 93
Mean −0.01731
Std Dev 0.9783

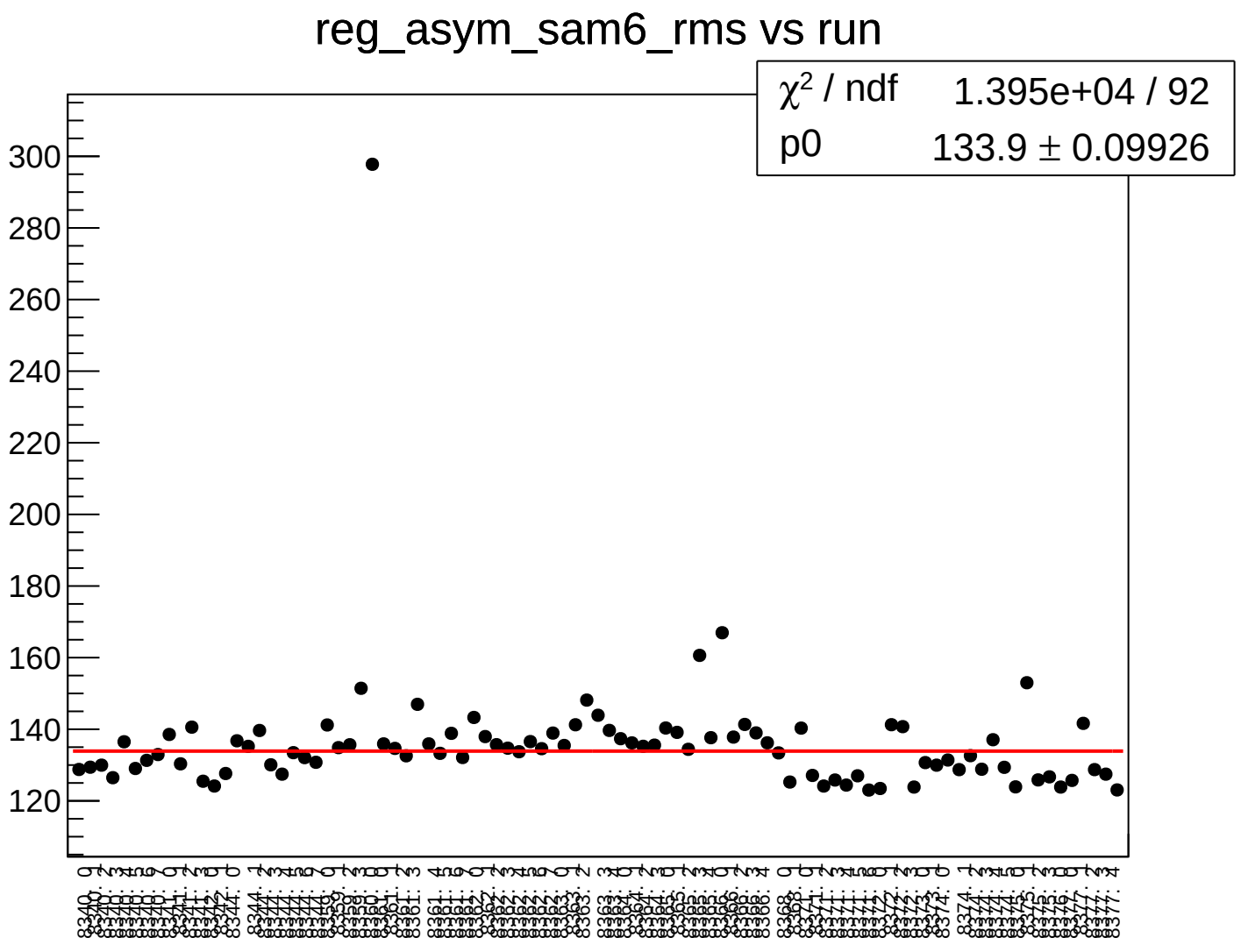

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.211e+04 / 92
p0 50.91 ± 0.03772
65
60
55
50
45

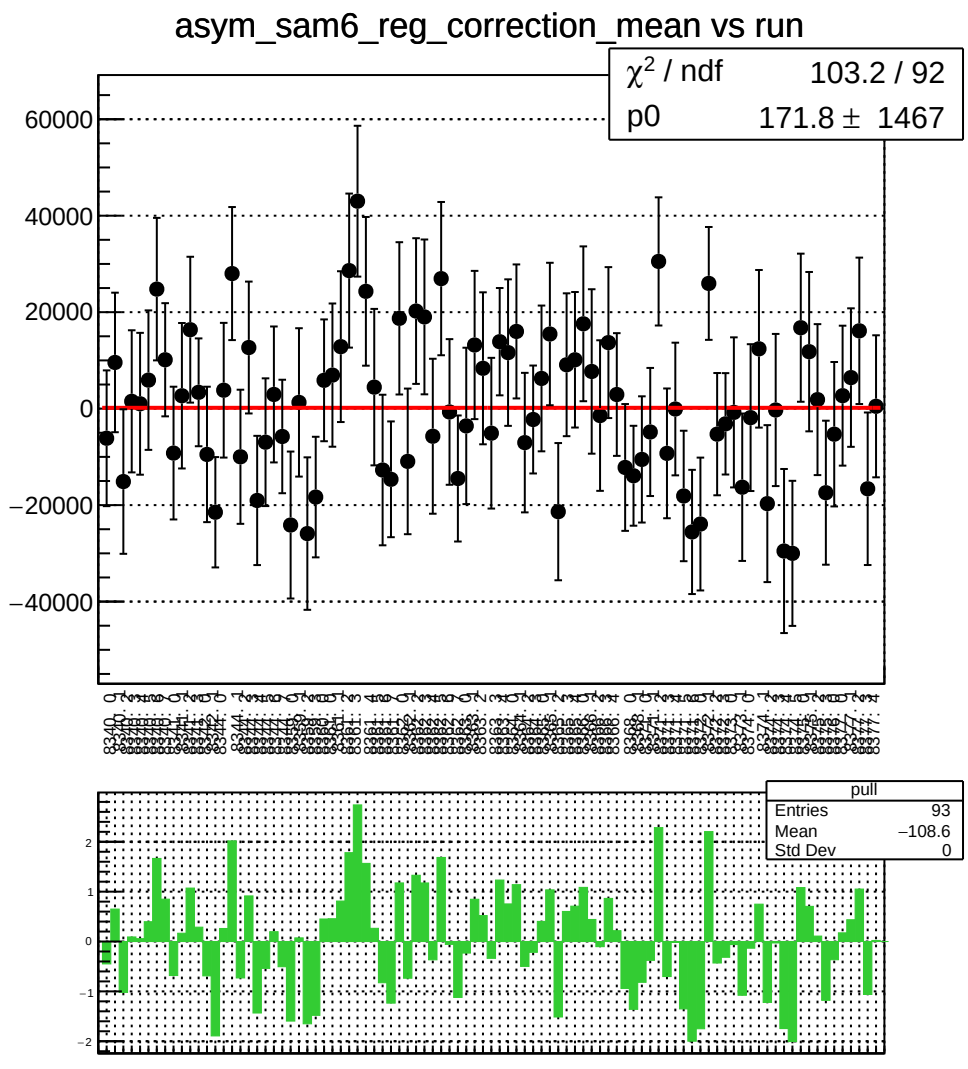

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 92
p0 −2.167e−15 ± 3.804e−14
pull
Entries 93
Mean 18.02
Std Dev 0

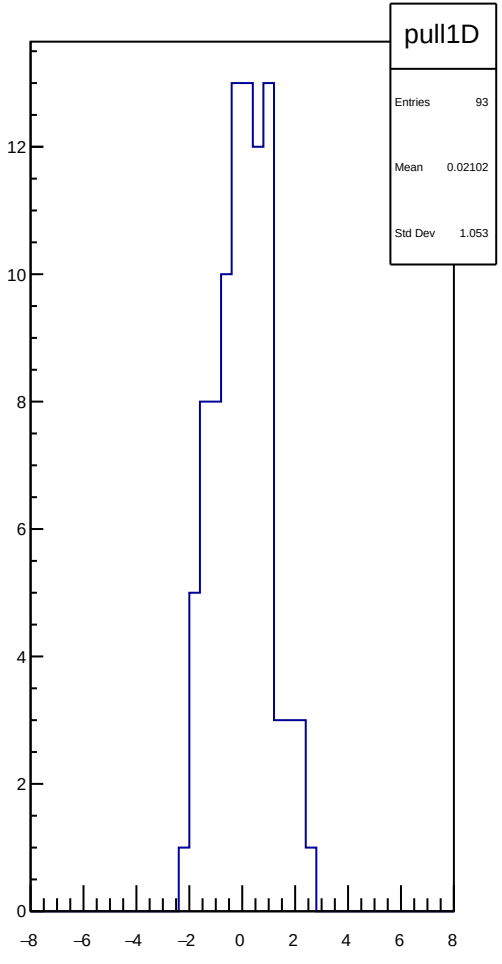

pull1D
Entries 93
Mean −0.06833
Std Dev 1.049

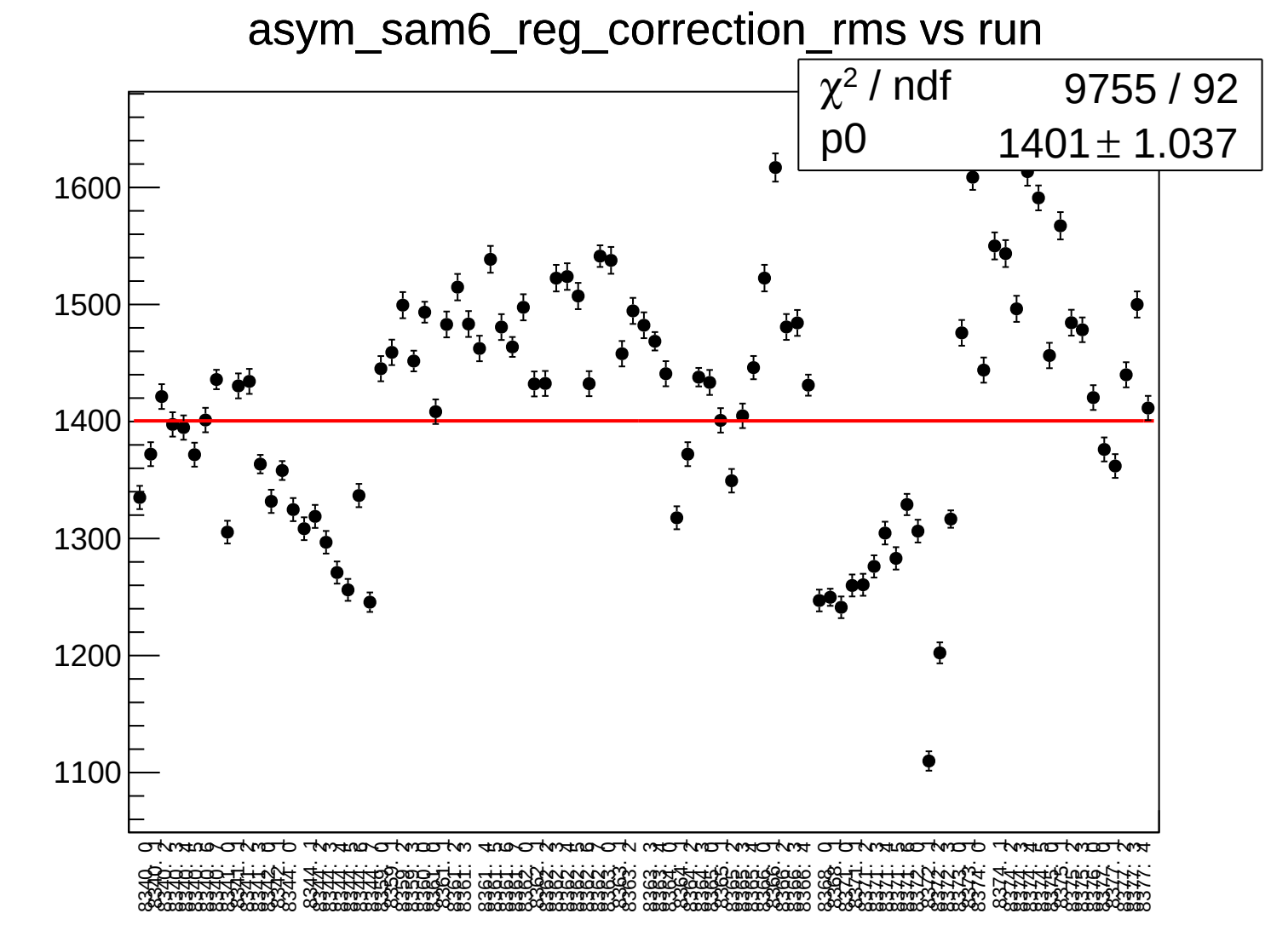

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.095e+05 / 92
p0 3.095e−11 ± 2.69e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

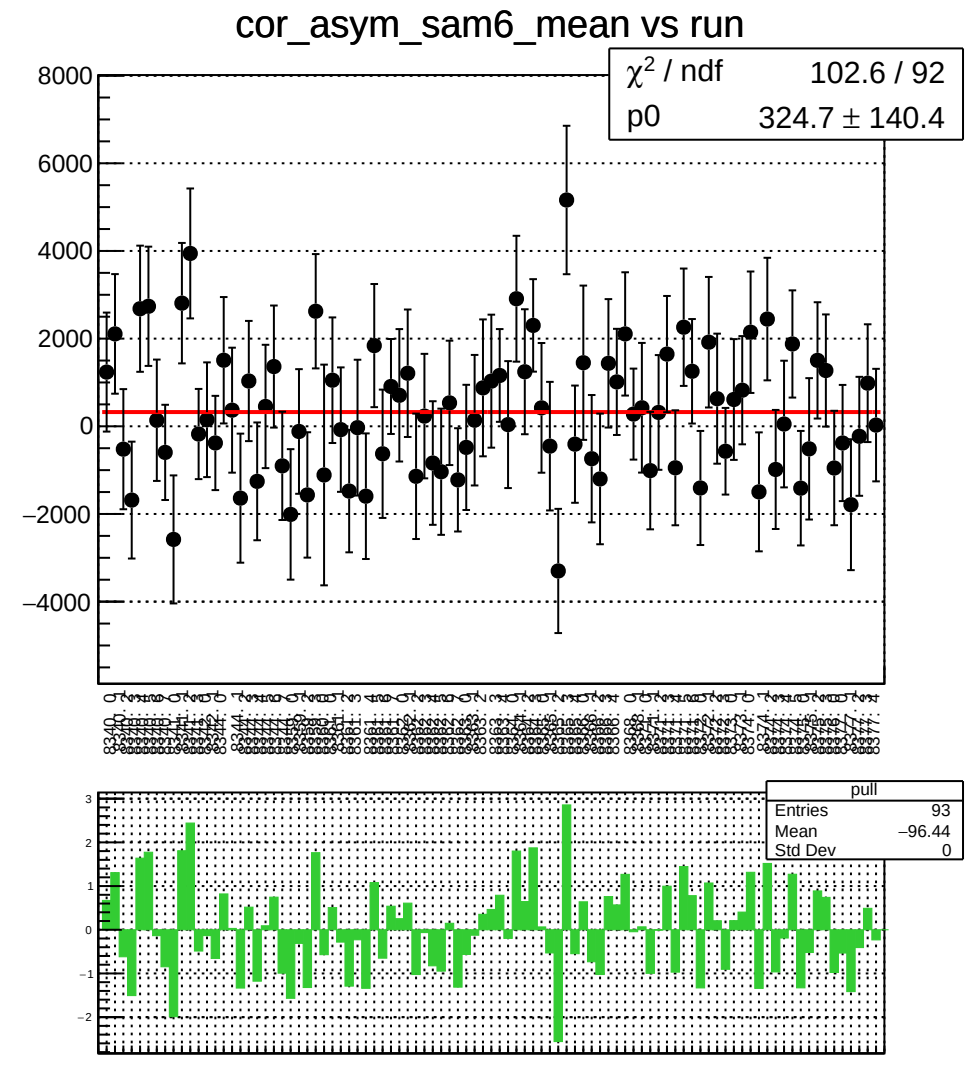

reg_asym_sam6_mean vs run
χ² / ndf 102.6 / 92
p0 324.8 ± 140.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −96.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001817
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

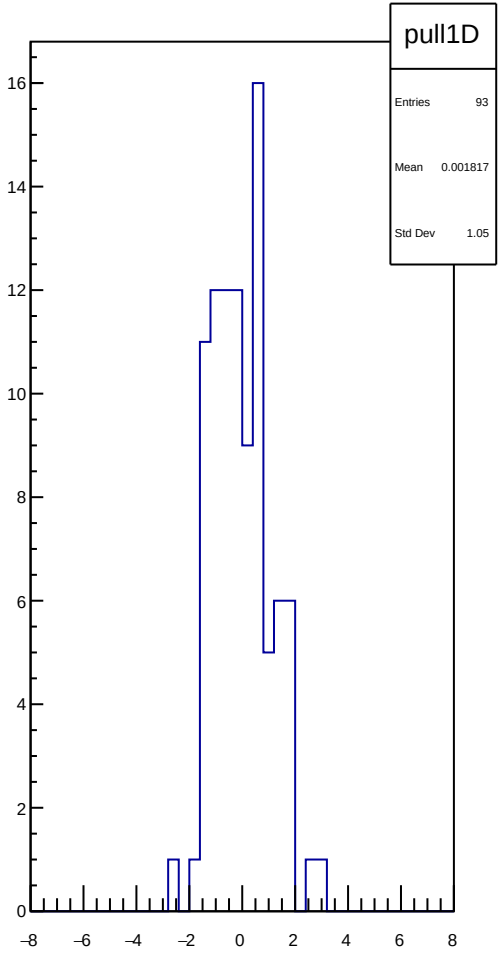

reg_asym_sam6_rms vs run
χ² / ndf 1.395e+04 / 92
p0 133.9 ± 0.09926
300
280
260
240
220
200
180
160
140
120

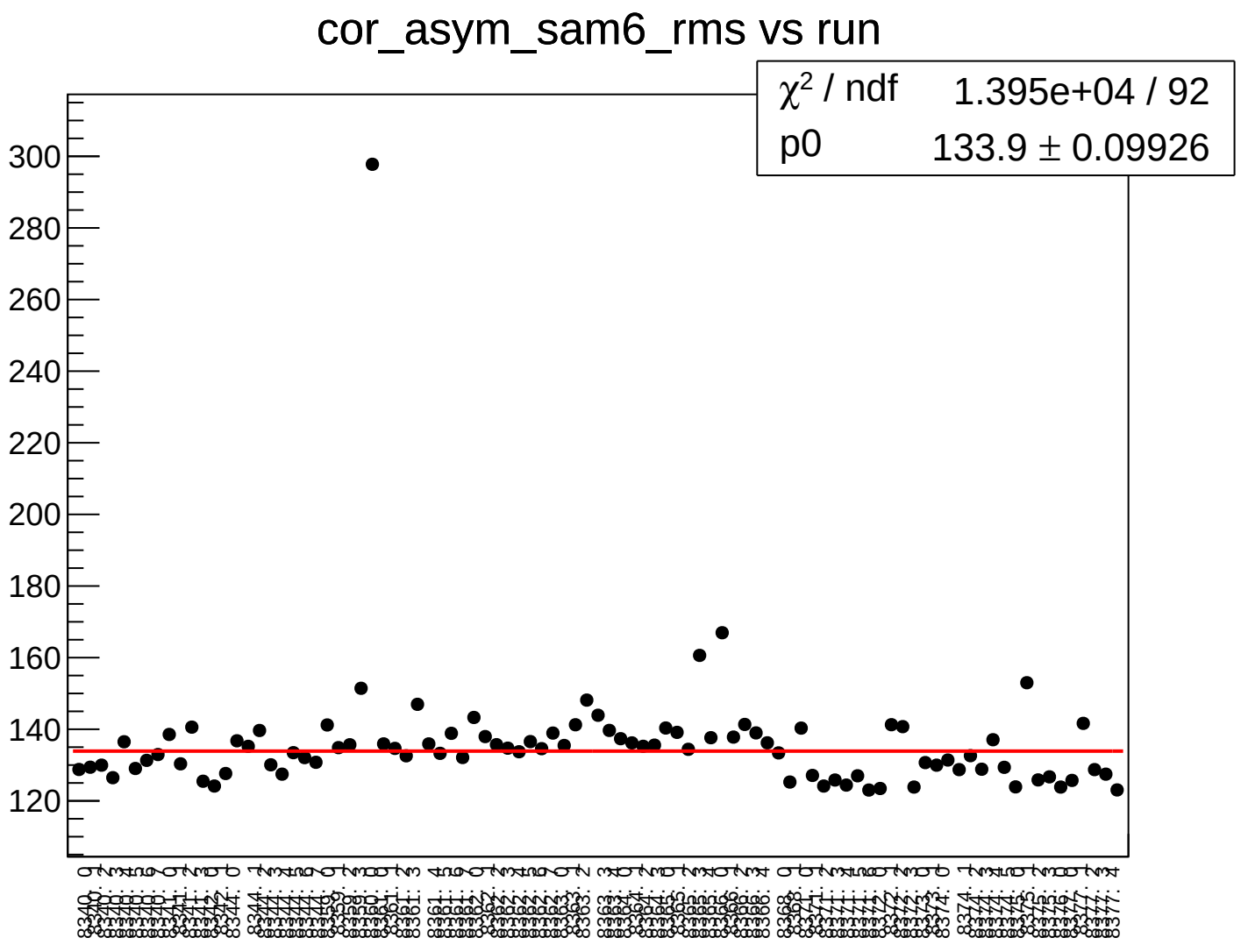

asym_sam6_reg_correction_mean vs run
χ² / ndf 103.2 / 92
p0 171.8 ± 1467
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.6
Std Dev 0
2
1
0
−1
−2

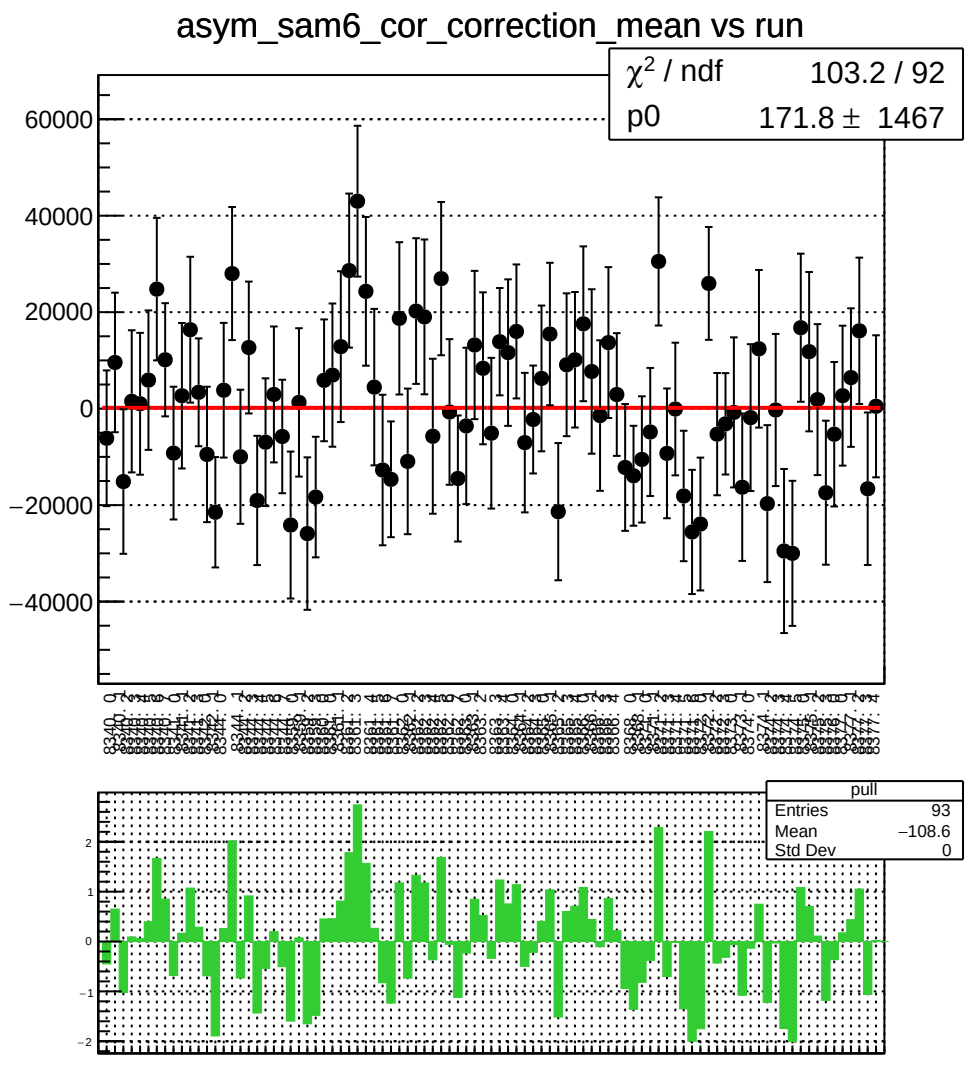

pull1D
Entries 93
Mean 0.02102
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

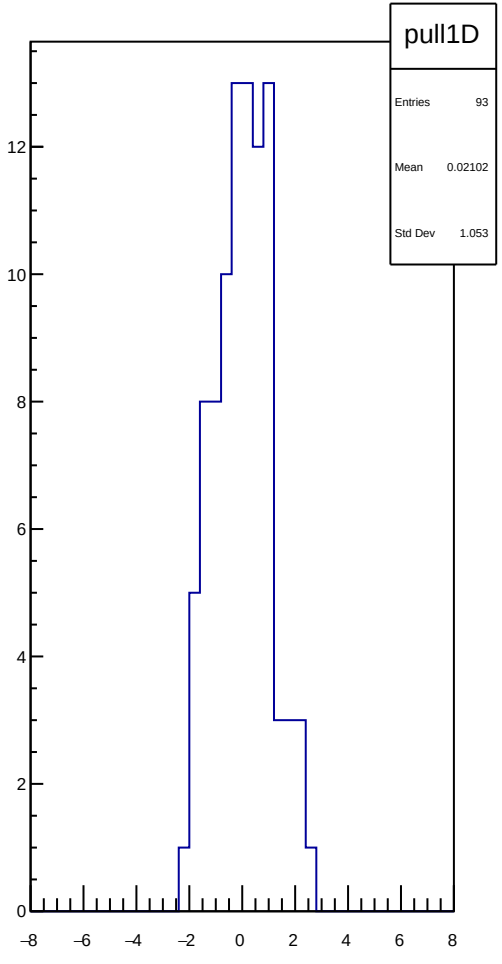

asym_sam6_reg_correction_rms vs run
χ² / ndf 9755 / 92
p0 1401 ± 1.037
1600
1500
1400
1300
1200
1100

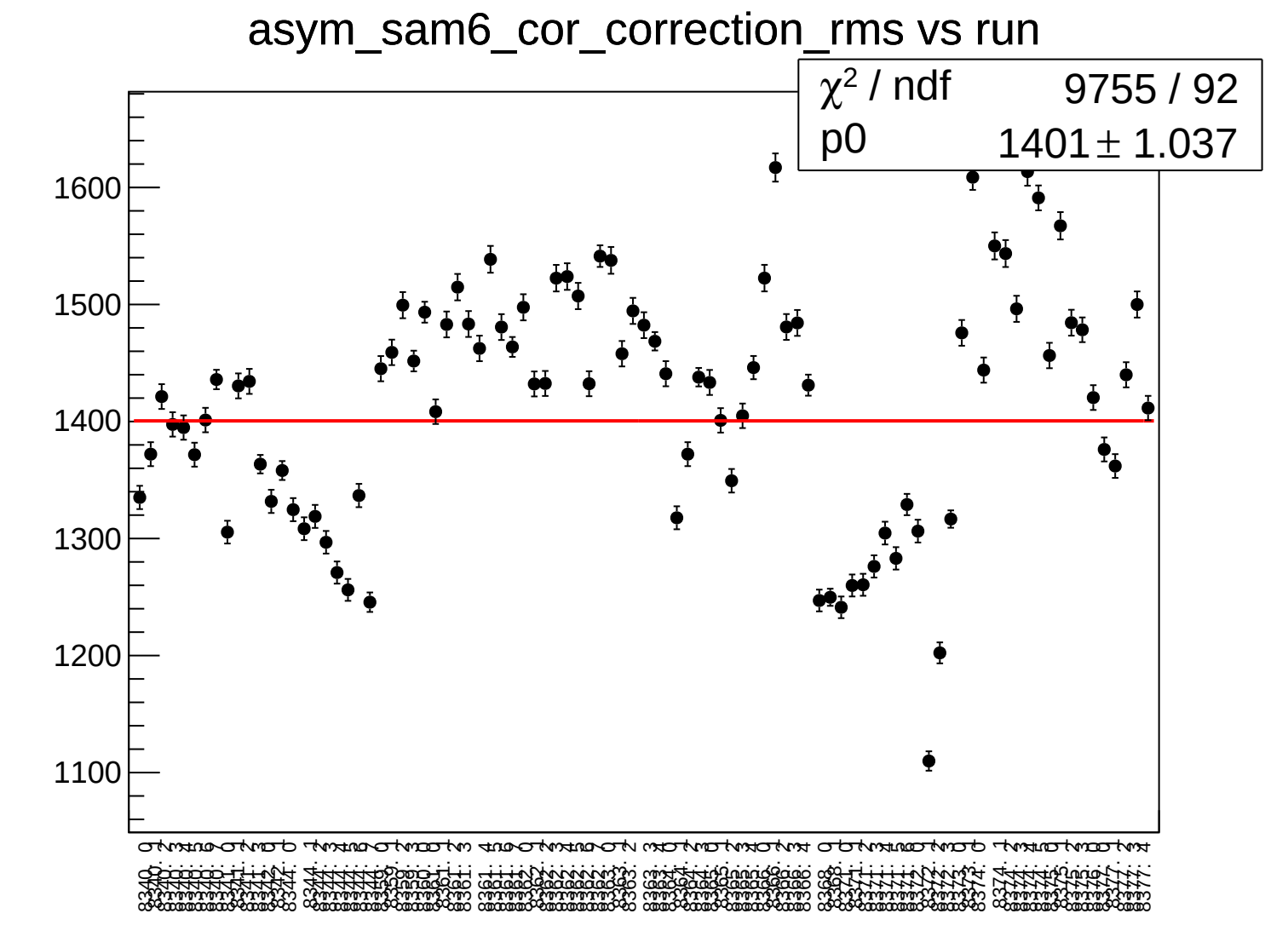

cor_asym_sam6_mean vs run
χ² / ndf 102.6 / 92
p0 324.7 ± 140.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −96.44
Std Dev 0
3
2
1
0
−1
−2

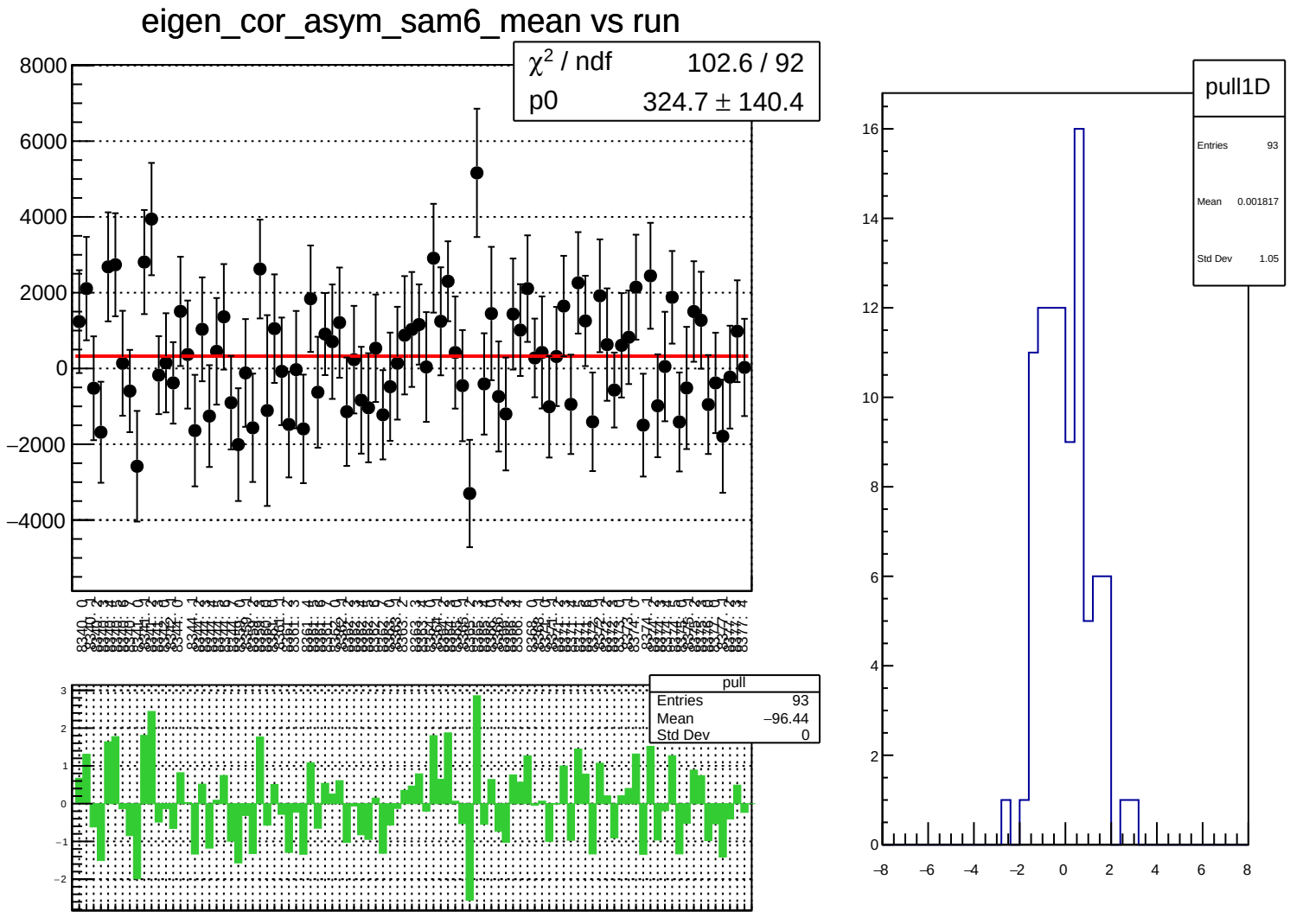

pull1D
Entries 93
Mean 0.001817
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

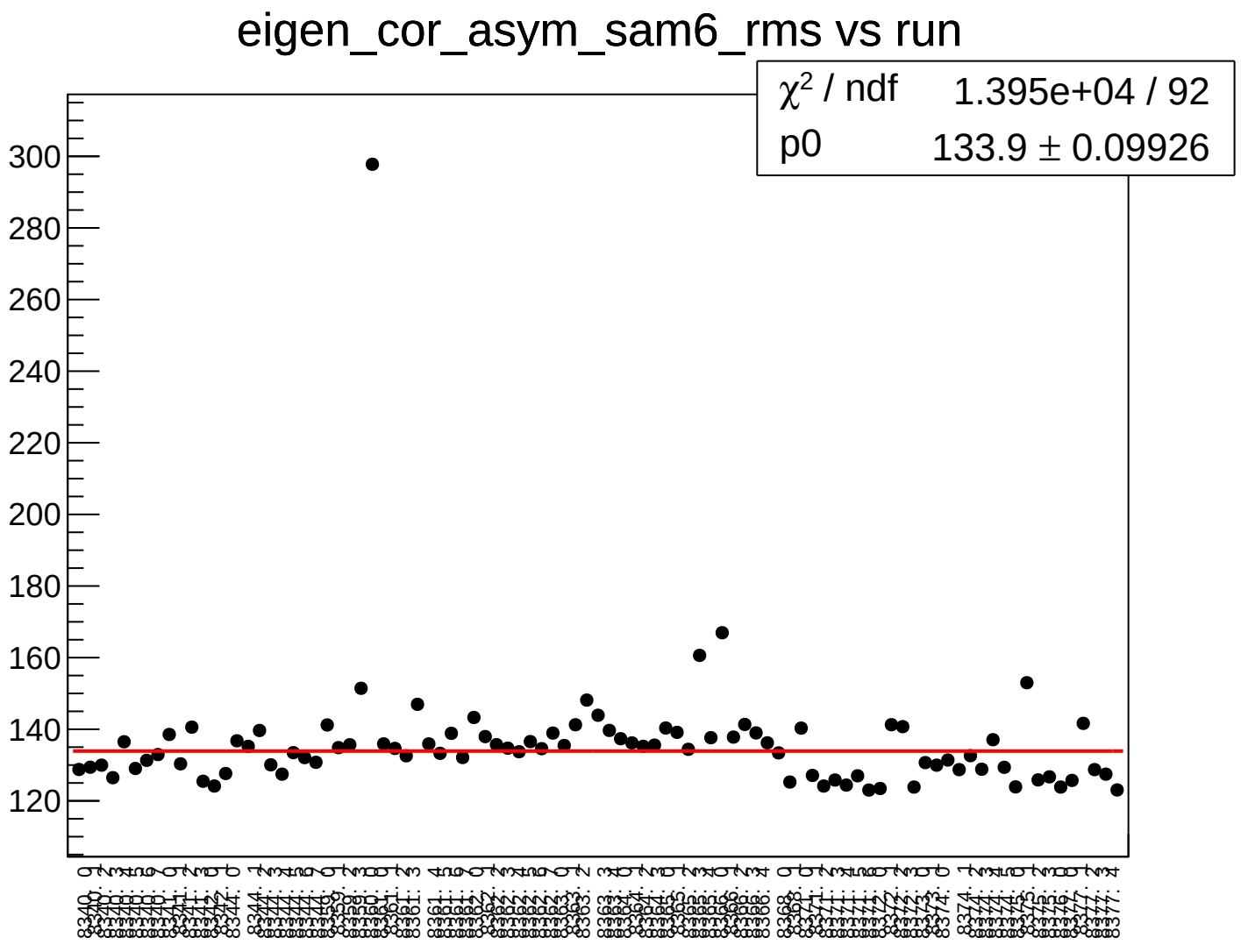

cor_asym_sam6_rms vs run
χ² / ndf 1.395e+04 / 92
p0 133.9 ± 0.09926
300
280
260
240
220
200
180
160
140
120

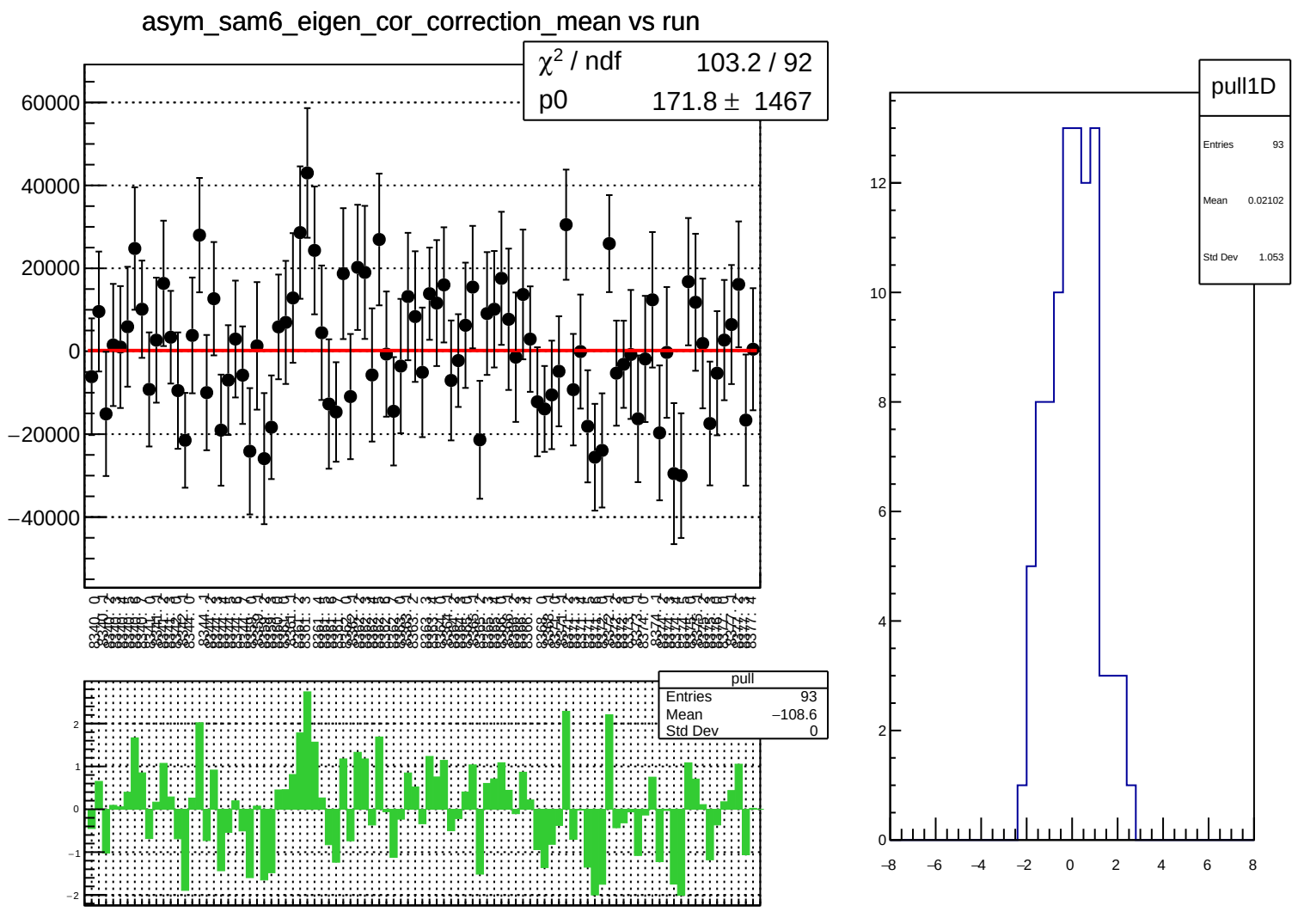

asym_sam6_cor_correction_mean vs run
χ² / ndf 103.2 / 92
p0 171.8 ± 1467
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.6
Std Dev 0
2
1
0
−1
−2

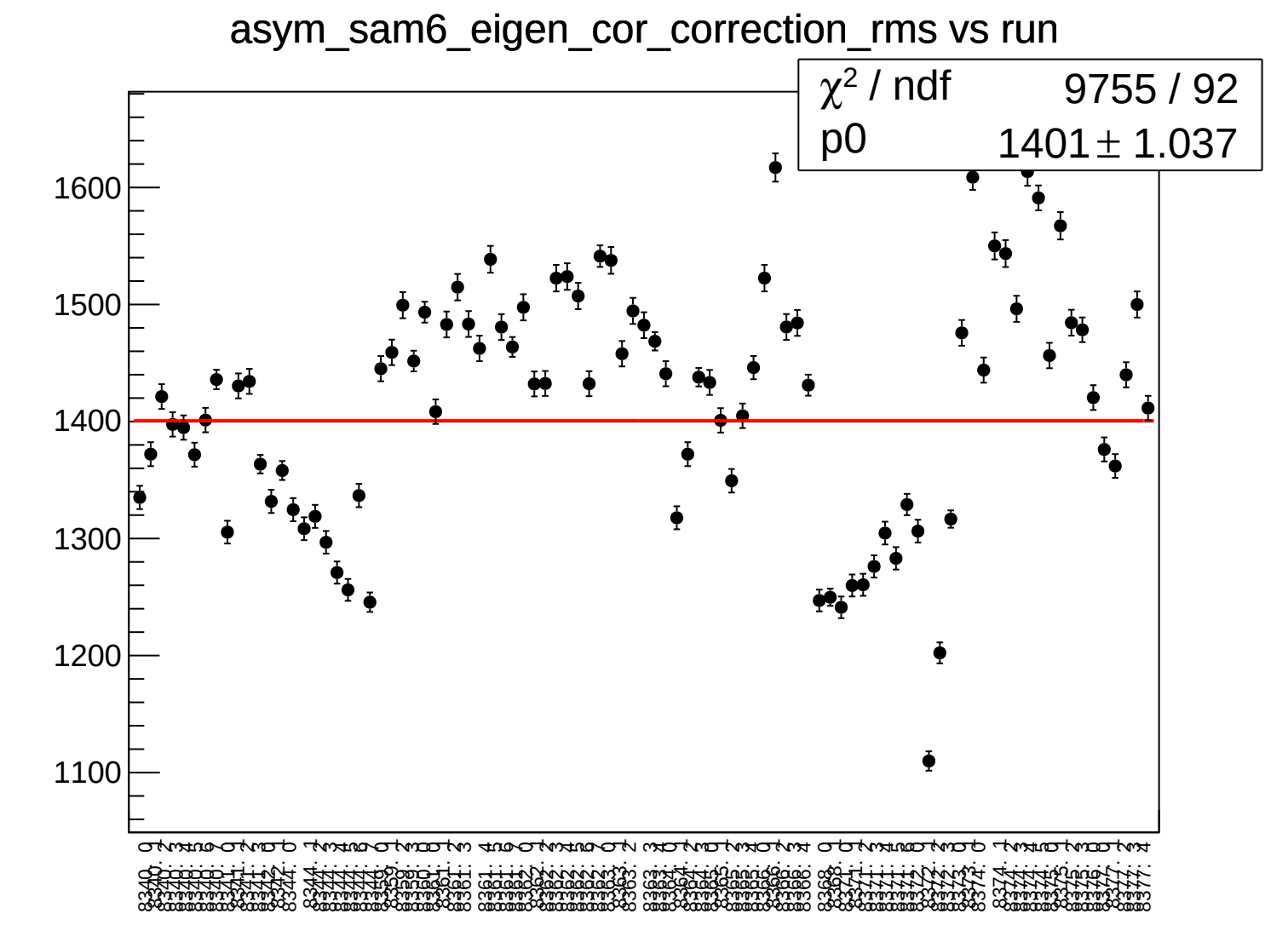

pull1D
Entries 93
Mean 0.02102
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

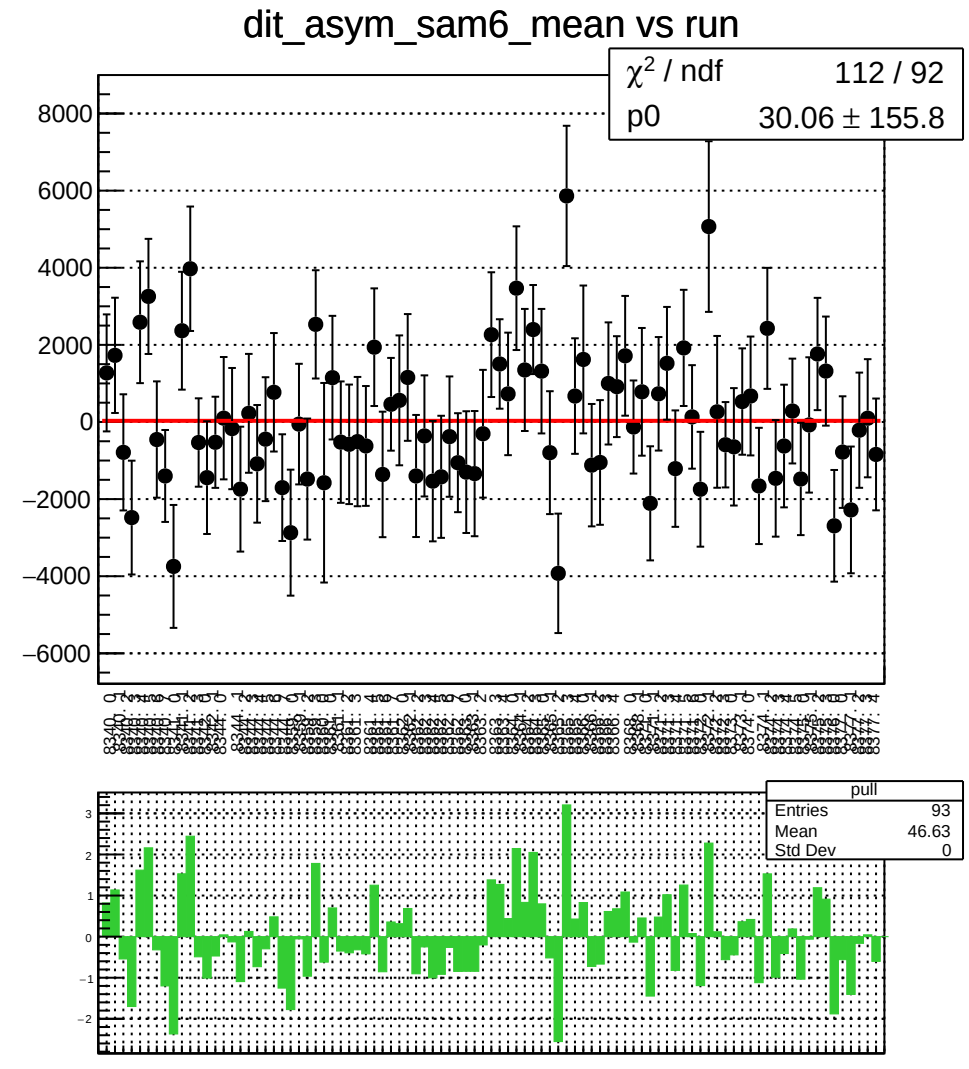

asym_sam6_cor_correction_rms vs run
χ² / ndf 9755 / 92
p0 1401 ± 1.037
1600
1500
1400
1300
1200
1100

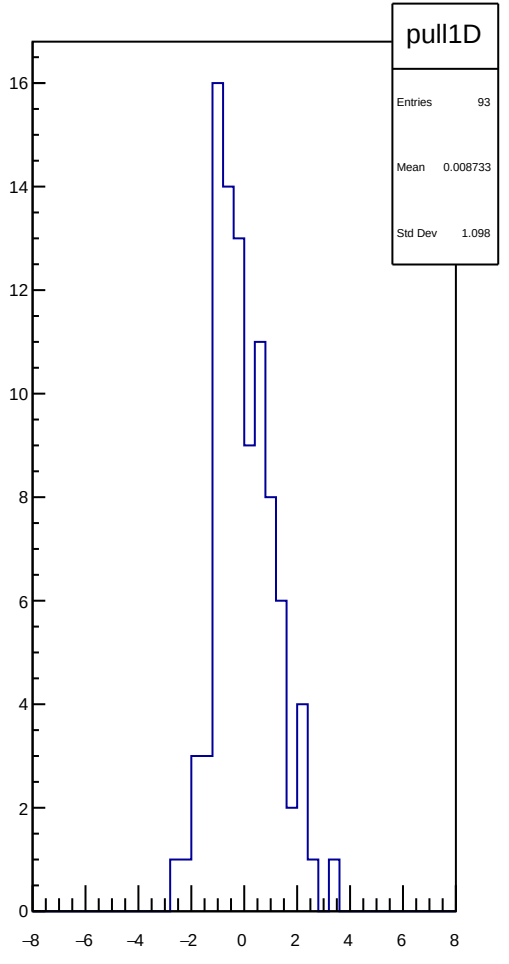

eigen_cor_asym_sam6_mean vs run
χ² / ndf 102.6 / 92
p0 324.7 ± 140.4
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −96.44
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.001817
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

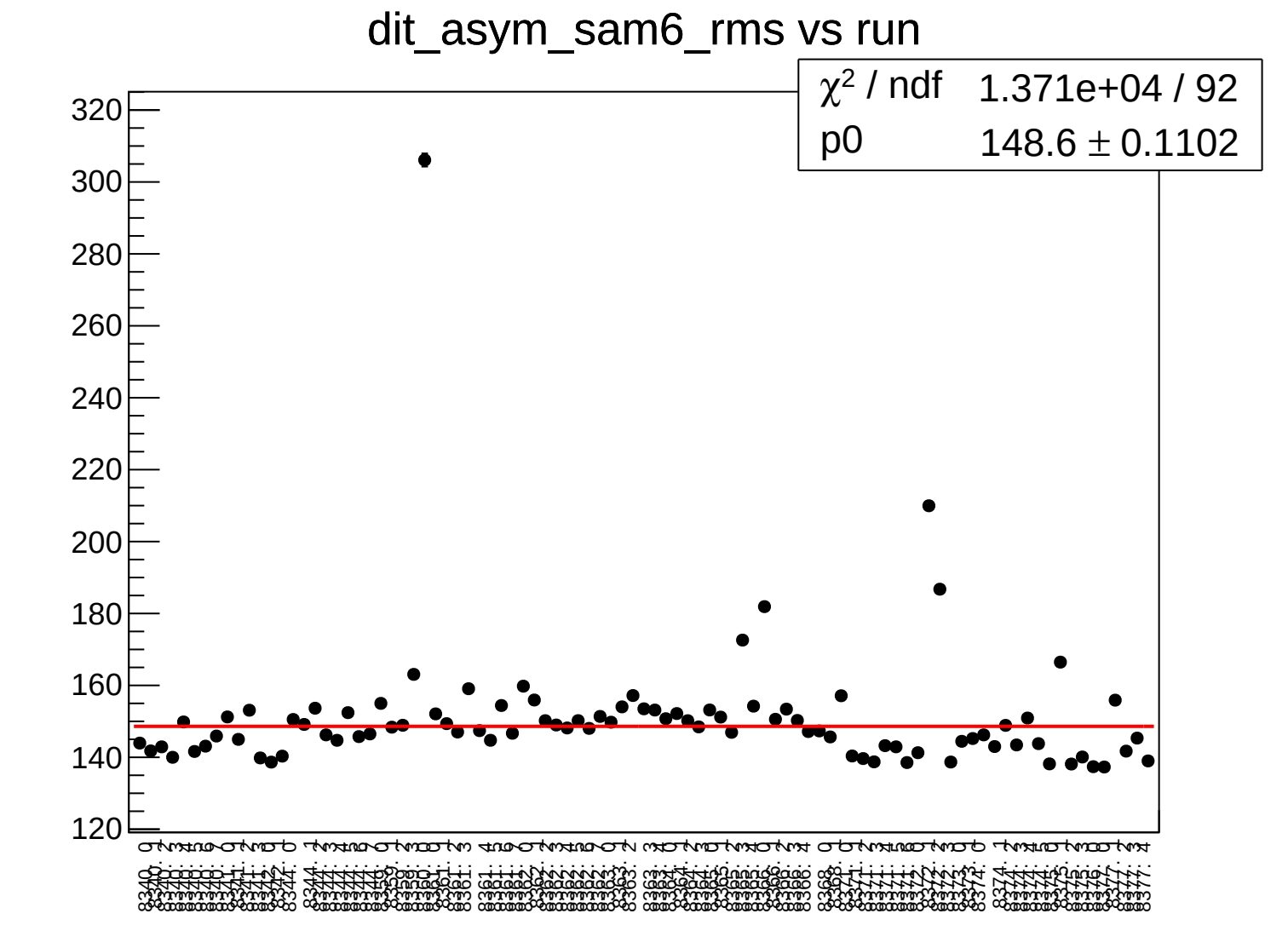

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1.395e+04 / 92
p0 133.9 ± 0.09926
300
280
260
240
220
200
180
160
140
120

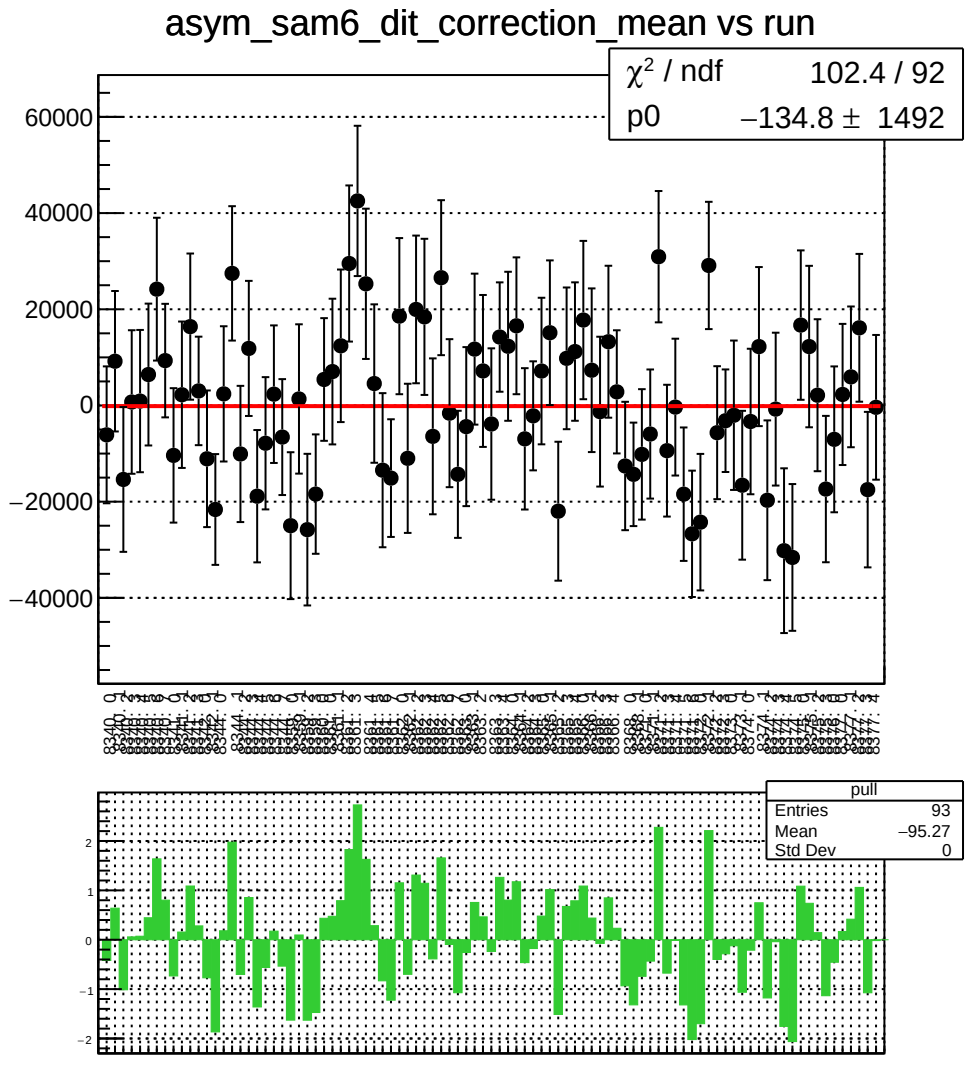

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 103.2 / 92
p0 171.8 ± 1467
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −108.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02102
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

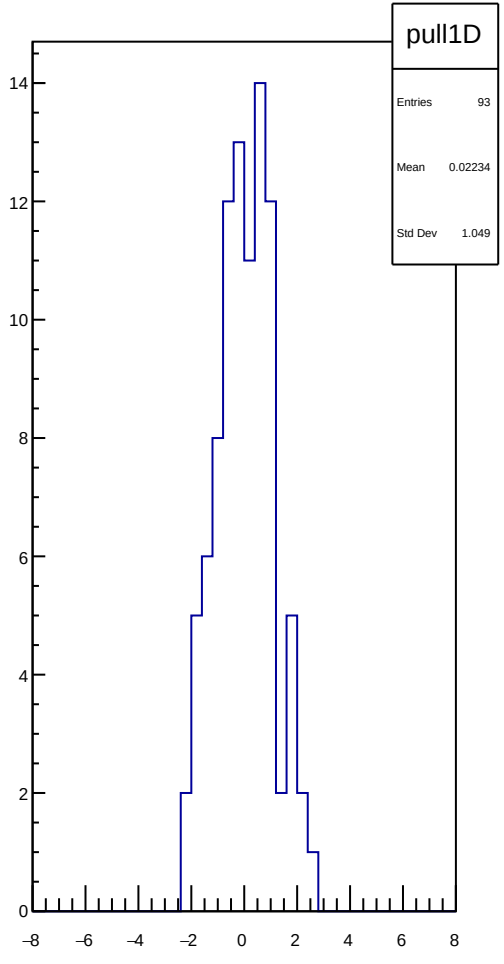

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 9755 / 92
p0 1401 ± 1.037
1600
1500
1400
1300
1200
1100

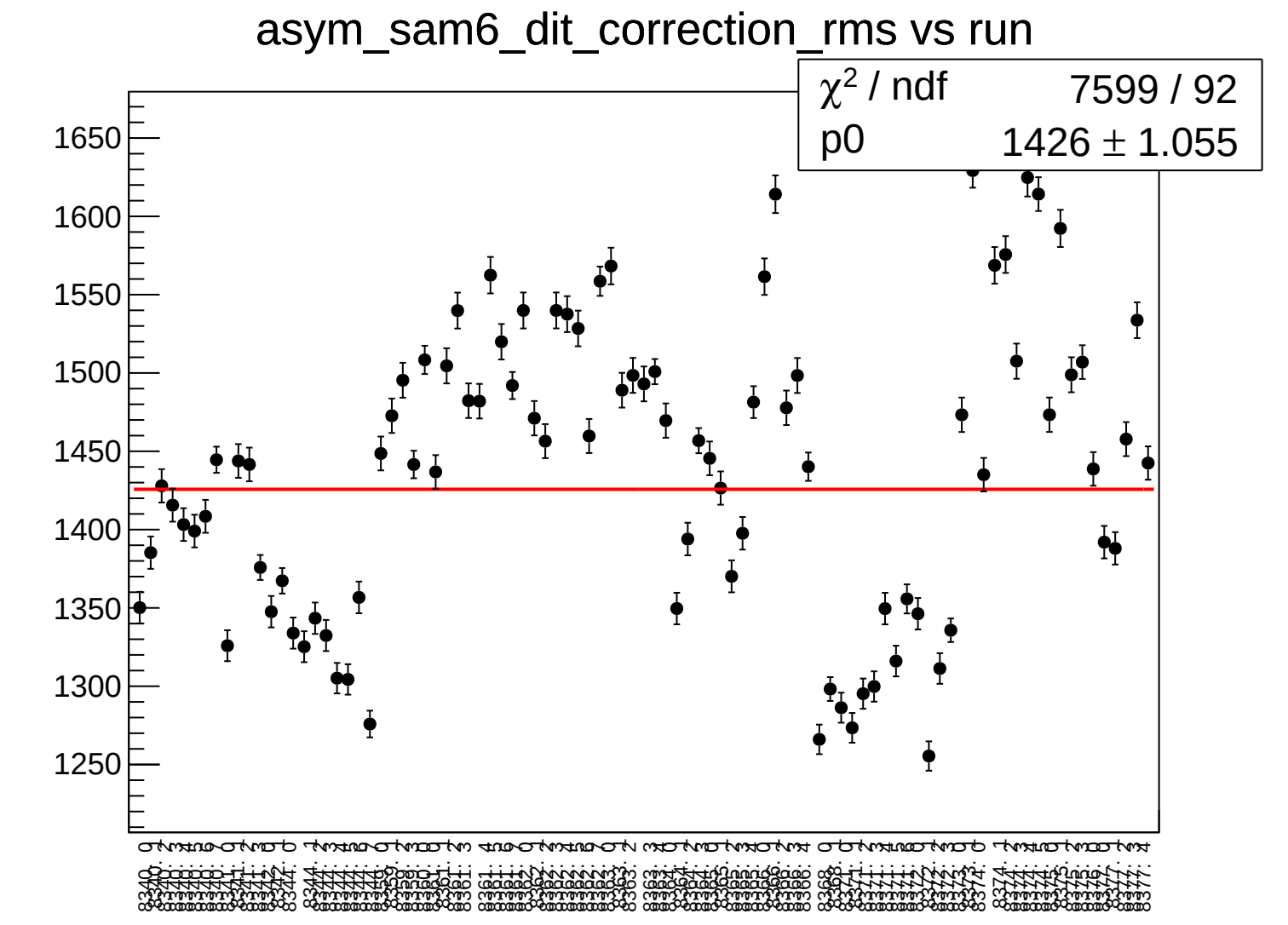

dit_asym_sam6_mean vs run
χ² / ndf 112 / 92
p0 30.06 ± 155.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 46.63
Std Dev 0
3
2
1
0
−1
−2

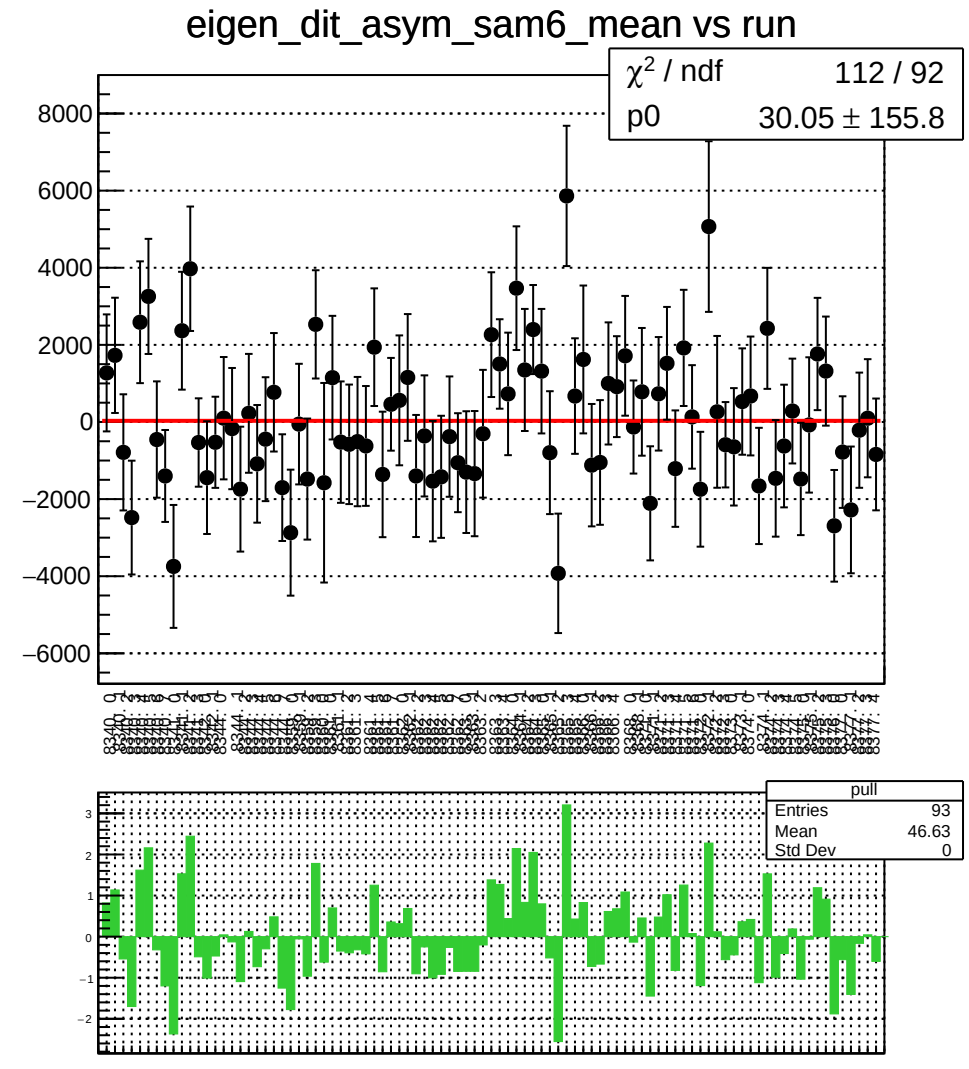

pull1D
Entries 93
Mean 0.008733
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

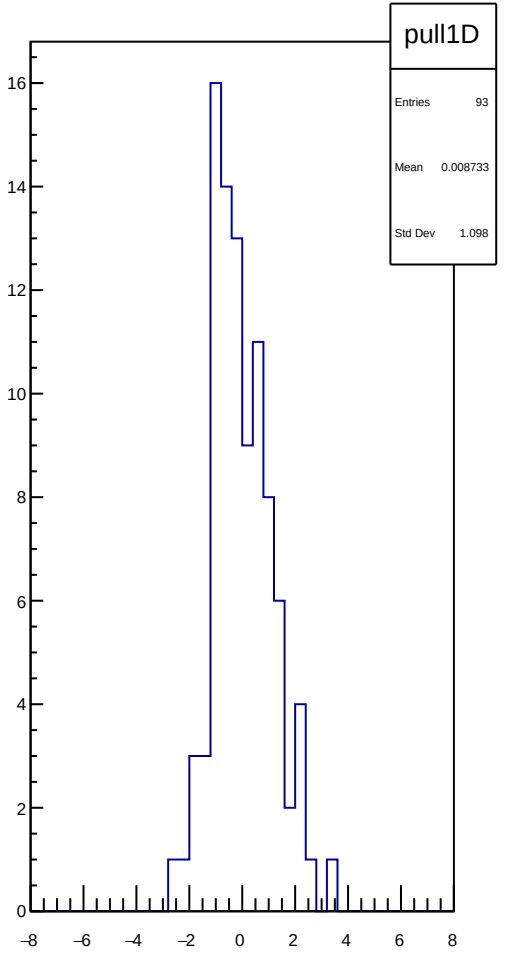

dit_asym_sam6_rms vs run
χ^2 / ndf 1.371e+04 / 92
p0 148.6 ± 0.1102
320
300
280
260
240
220
200
180
160
140
120

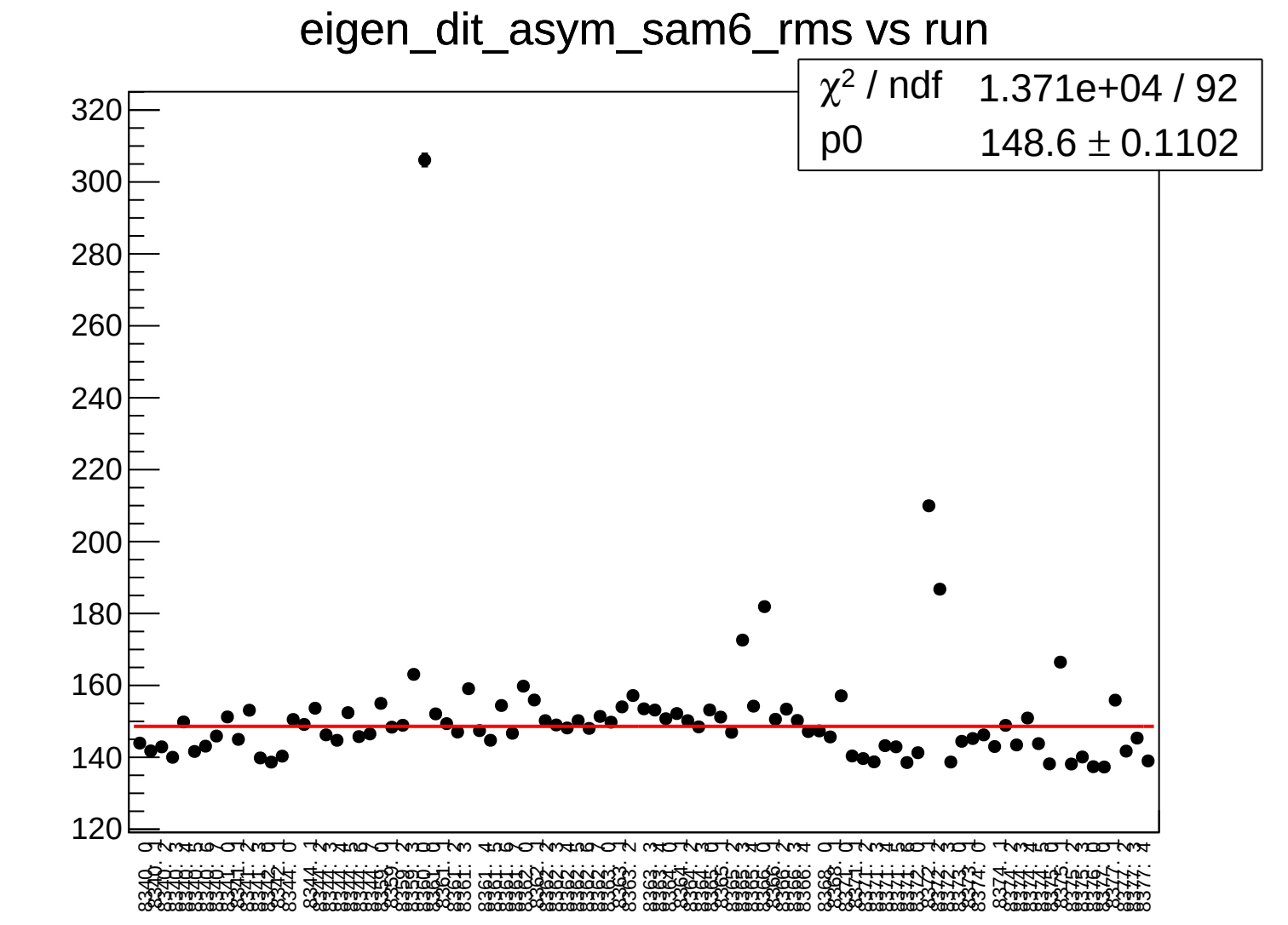

asym_sam6_dit_correction_mean vs run
χ² / ndf 102.4 / 92
p0 −134.8 ± 1492
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −95.27
Std Dev 0
2
1
0
−1
−2

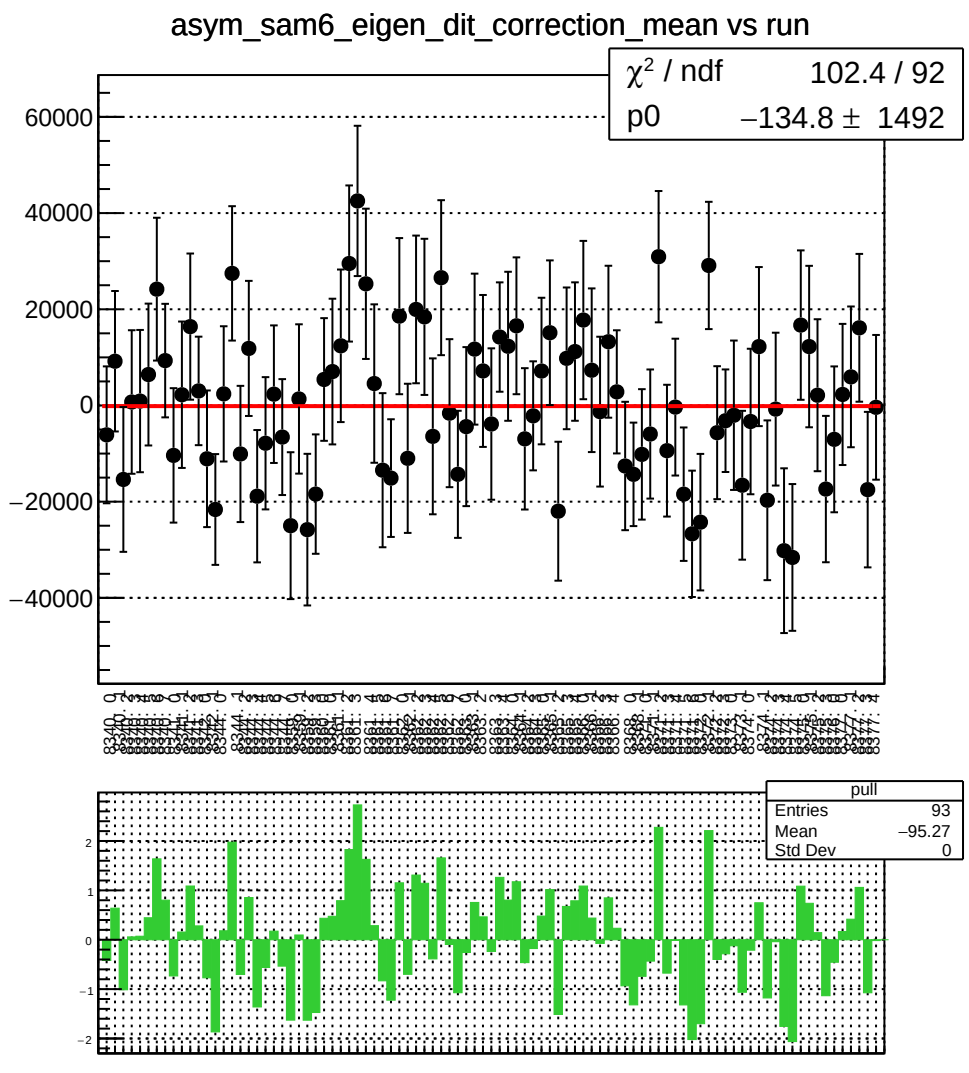

pull1D
Entries 93
Mean 0.02234
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

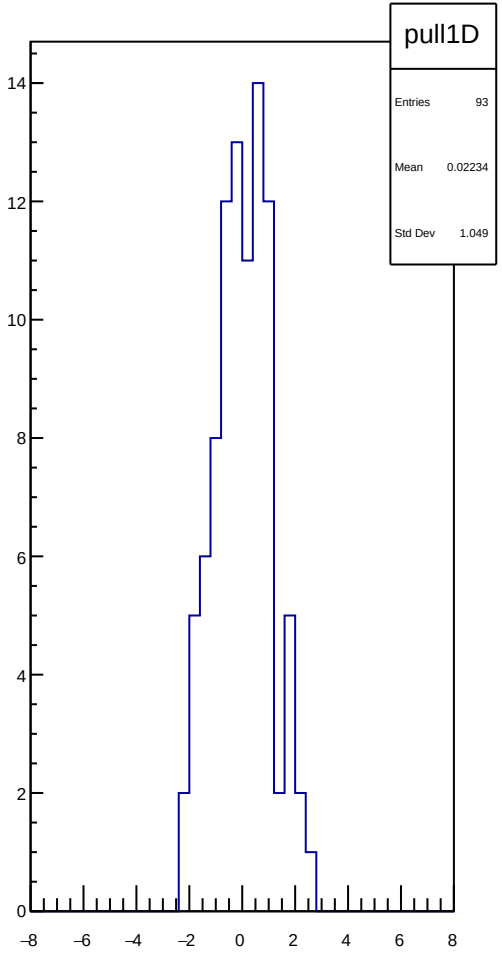

asym_sam6_dit_correction_rms vs run
χ² / ndf 7599 / 92
p0 1426 ± 1.055
1650
1600
1550
1500
1450
1400
1350
1300
1250

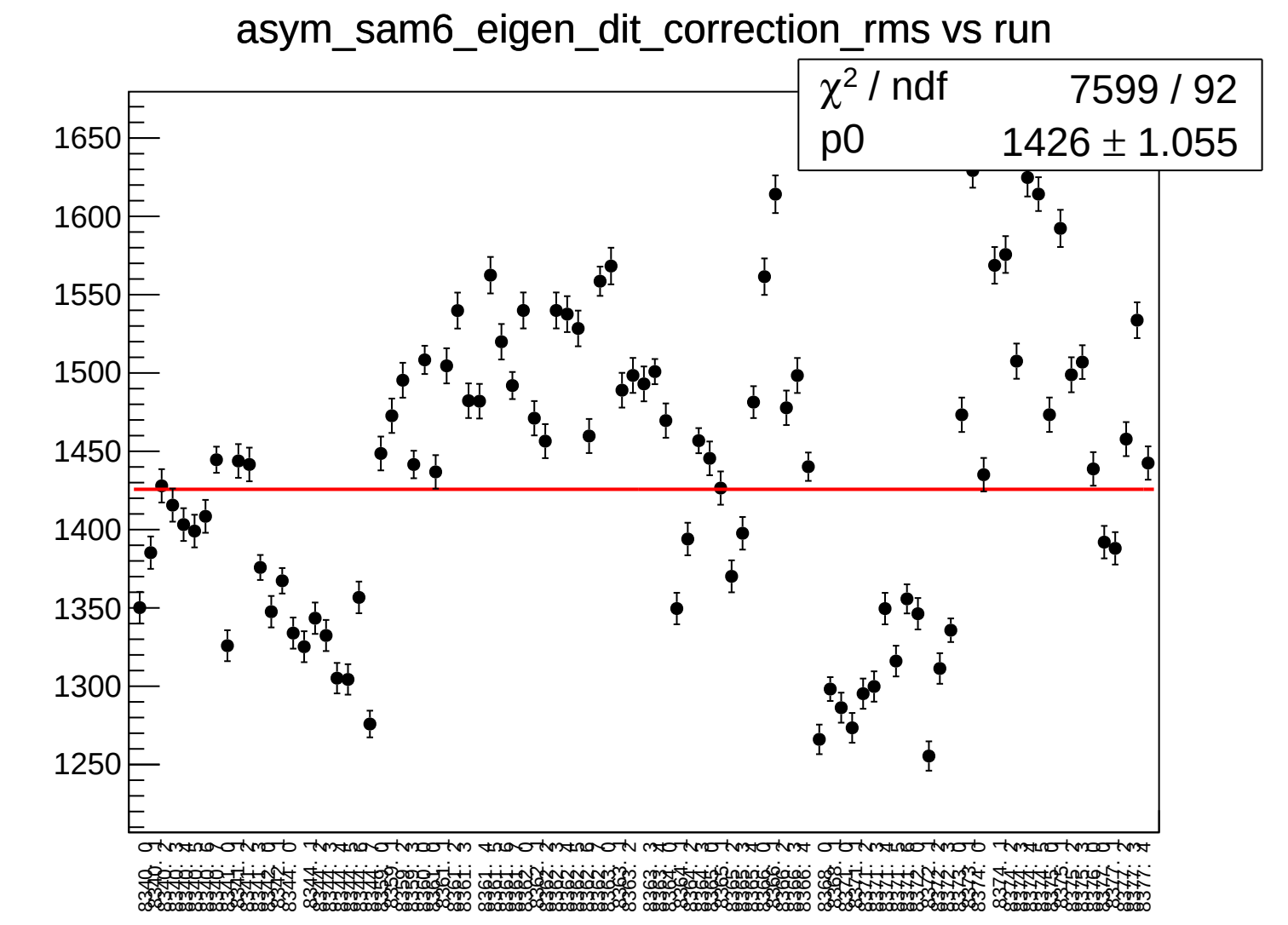

eigen_dit_asym_sam6_mean vs run
χ² / ndf 112 / 92
p0 30.05 ± 155.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 46.63
Std Dev 0
3
2
1
0
−1
−2

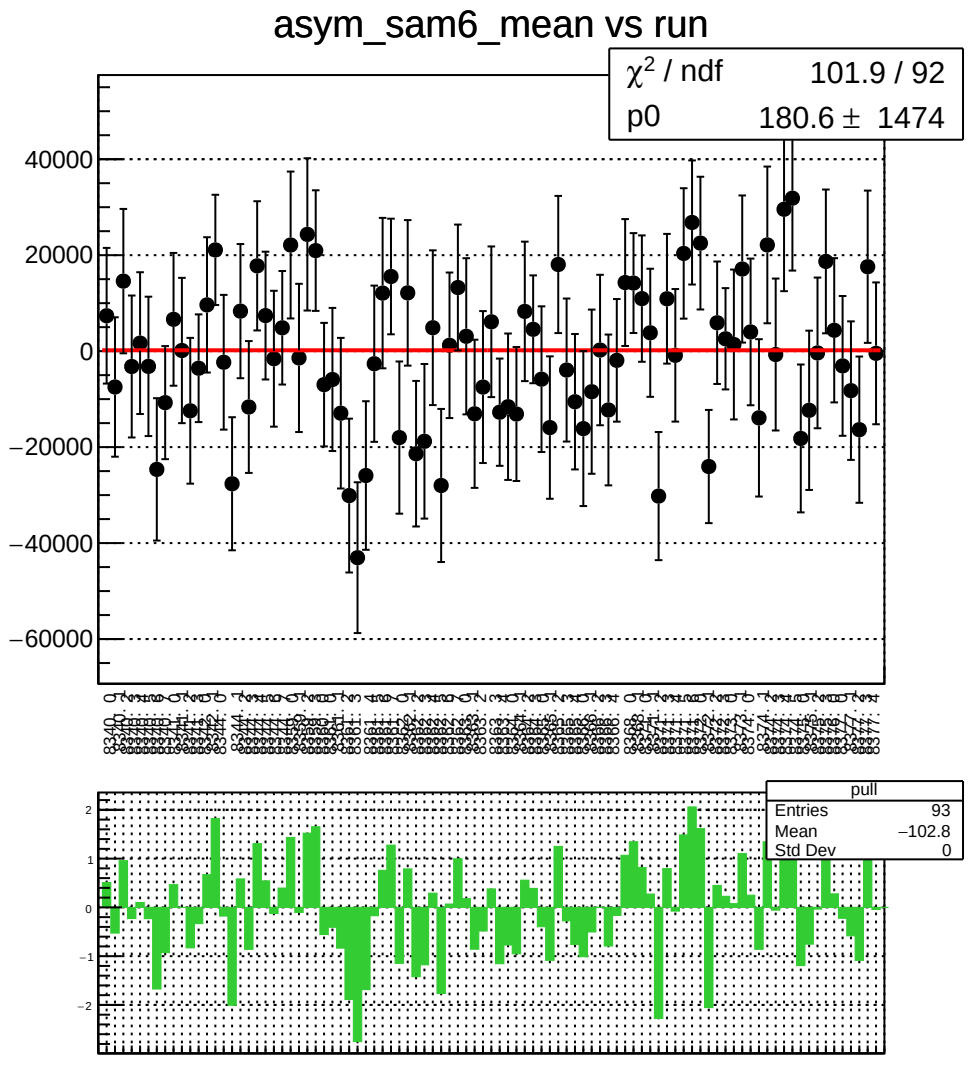

pull1D
Entries 93
Mean 0.008733
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

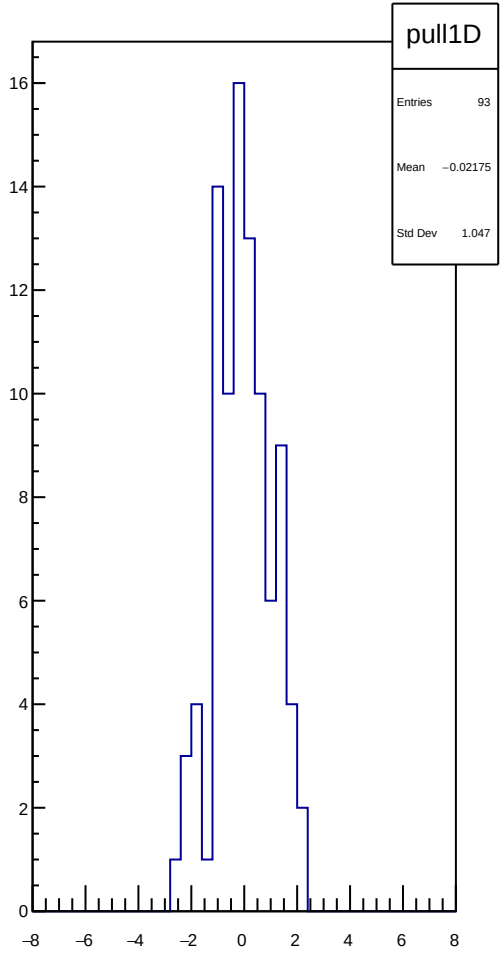

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 1.371e+04 / 92
p0 148.6 ± 0.1102
320
300
280
260
240
220
200
180
160
140
120

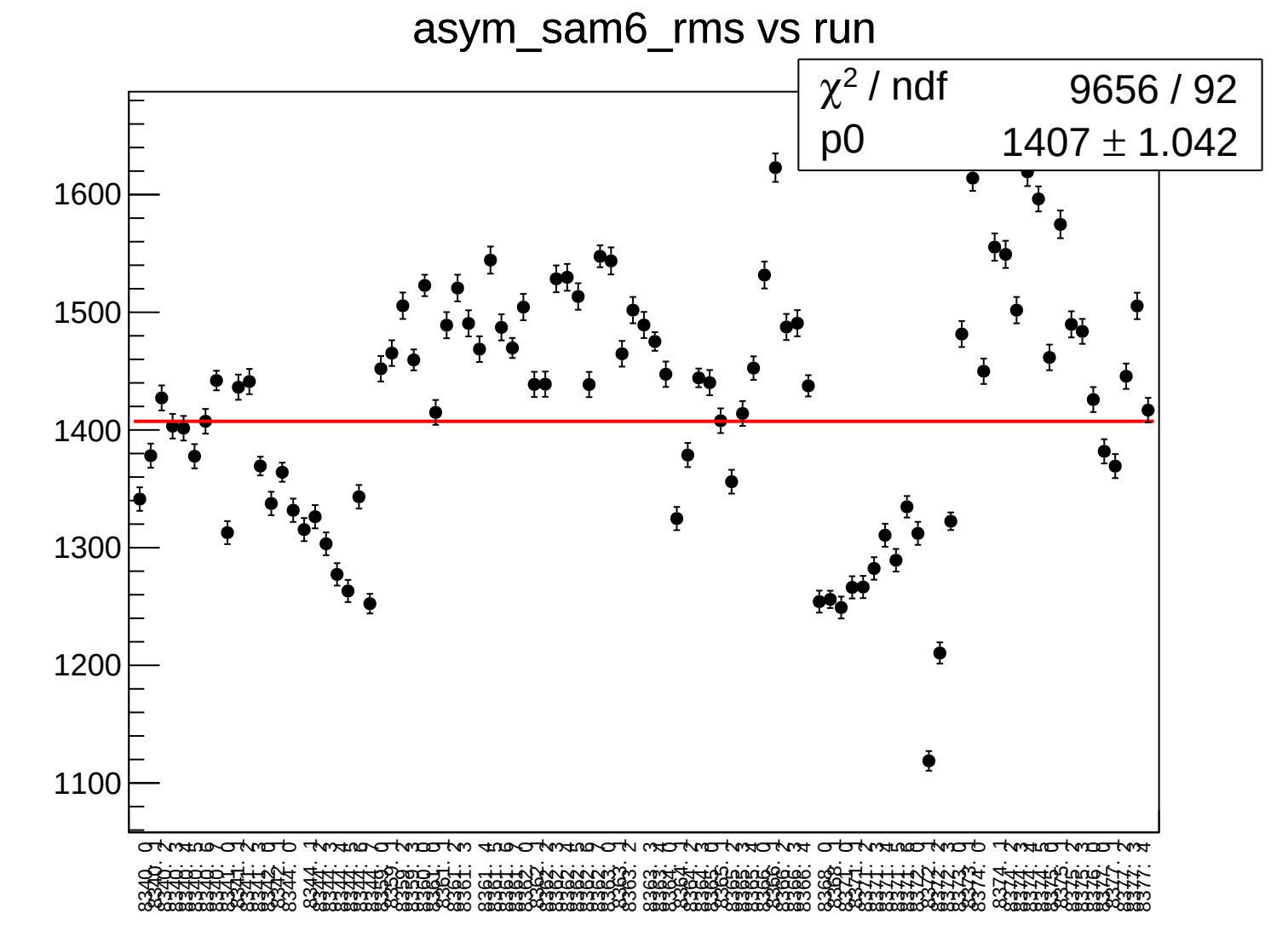

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 102.4 / 92
p0 −134.8 ± 1492
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −95.27
Std Dev 0
2
1
0
−1
−2

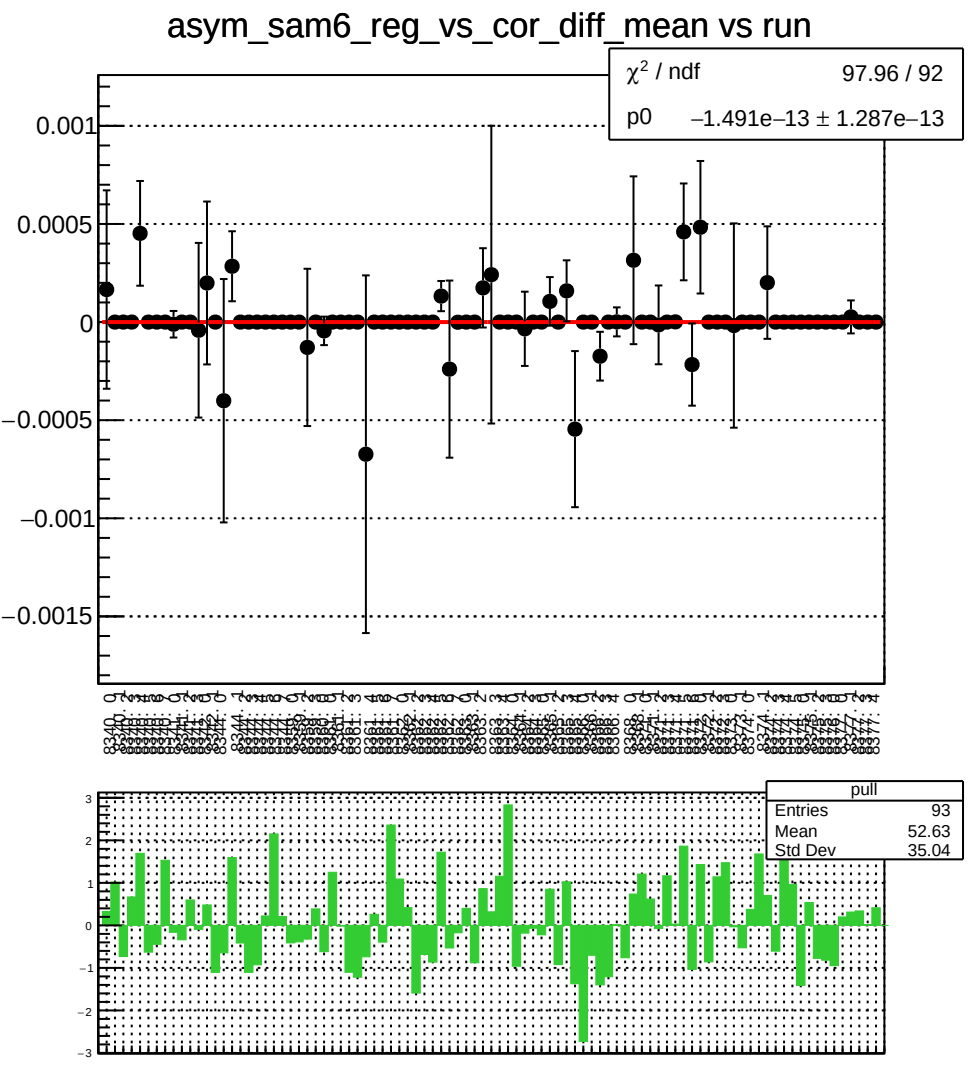

pull1D
Entries 93
Mean 0.02234
Std Dev 1.049
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

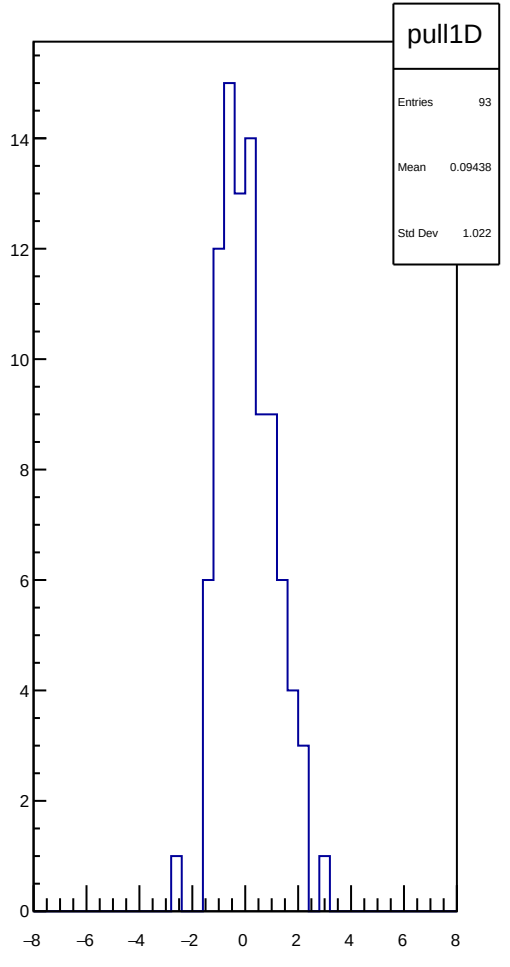

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 7599 / 92
p0 1426 ± 1.055
1650
1600
1550
1500
1450
1400
1350
1300
1250

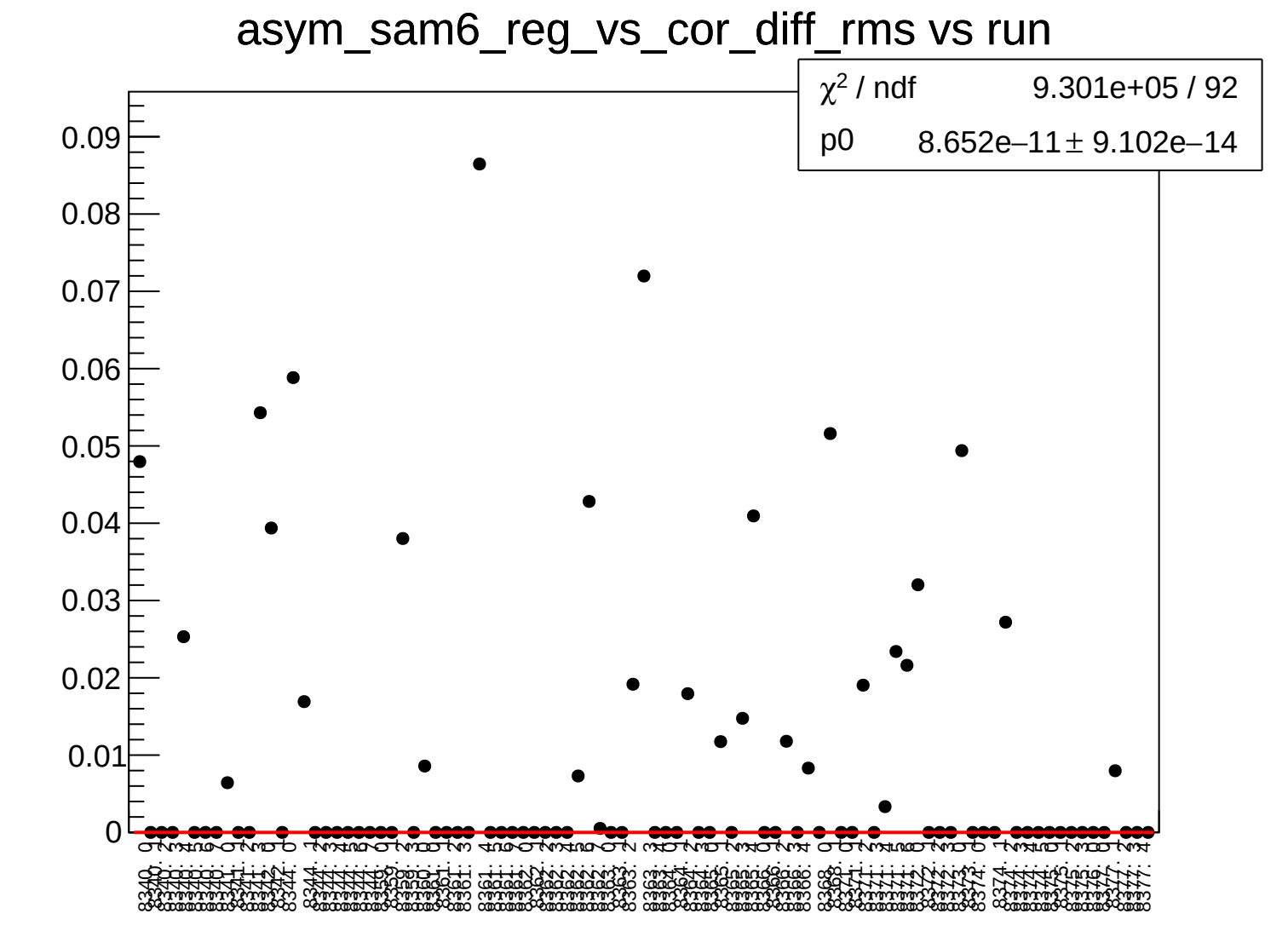

asym_sam6_mean vs run
χ² / ndf 101.9 / 92
p0 180.6 ± 1474
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −102.8
Std Dev 0
2
1
0
−1
−2

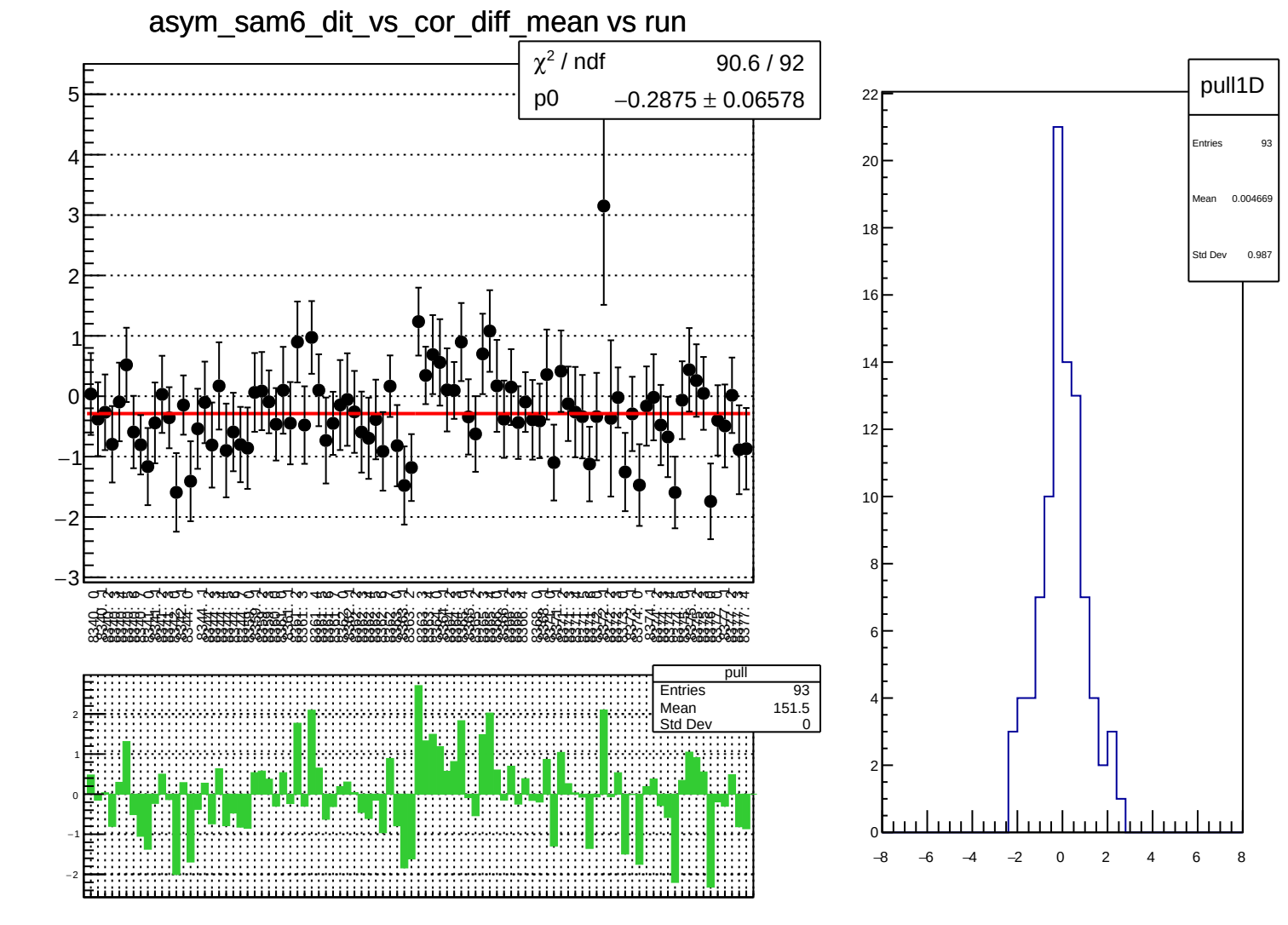

pull1D
Entries 93
Mean −0.02175
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

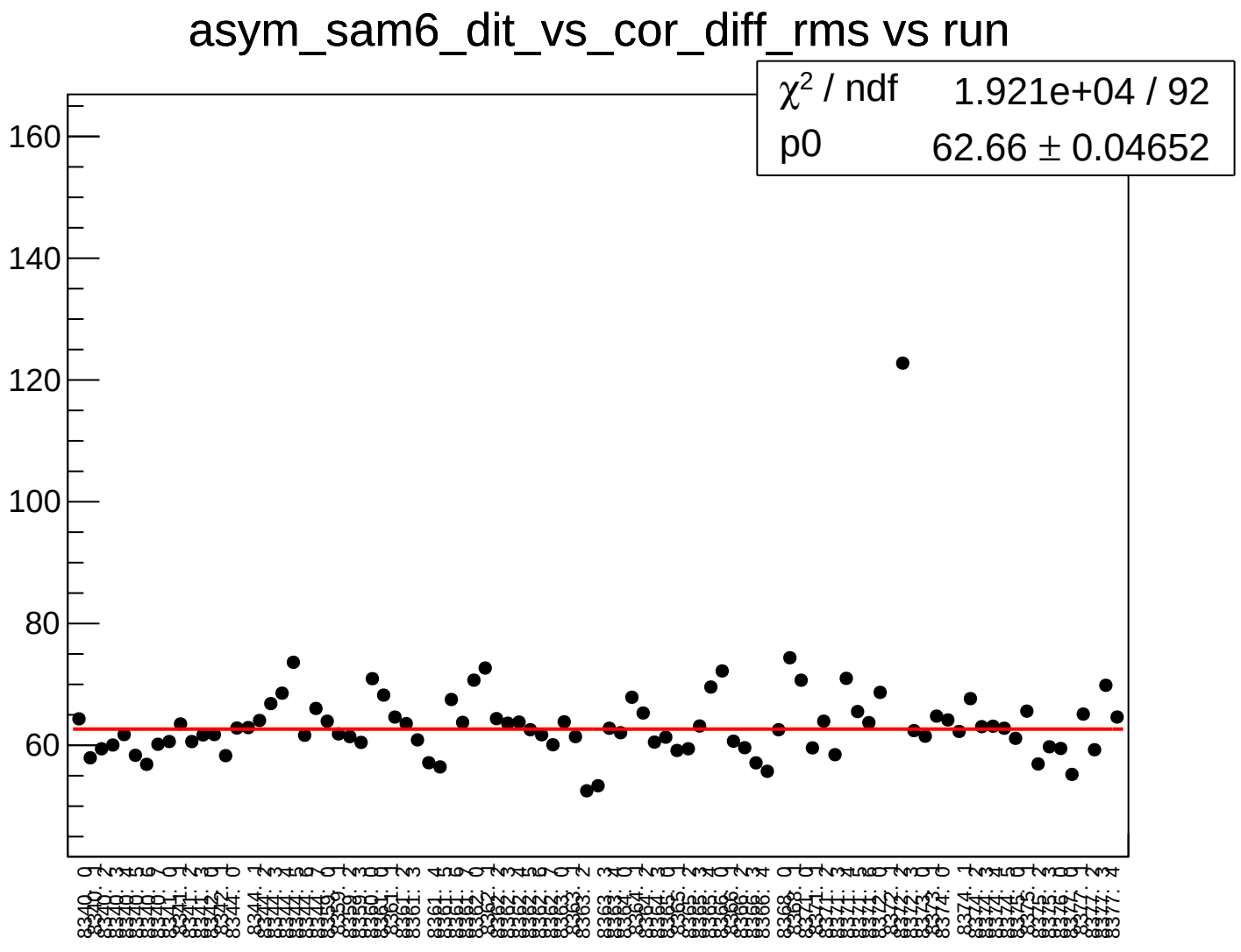

asym_sam6_rms vs run
χ² / ndf 9656 / 92
p0 1407 ± 1.042
1600
1500
1400
1300
1200
1100

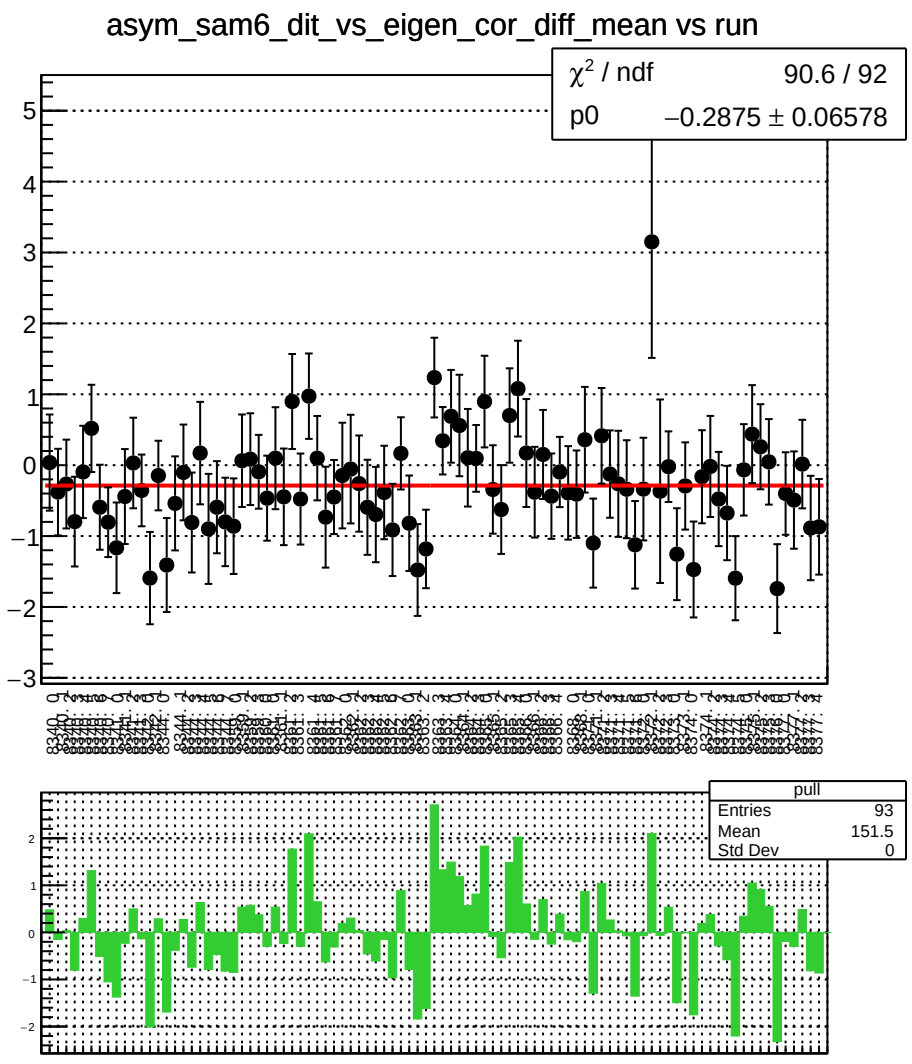

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 97.96 / 92
p0 −1.491e−13 ± 1.287e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 52.63
Std Dev 35.04
3
2
1
0
−1
−2
−3

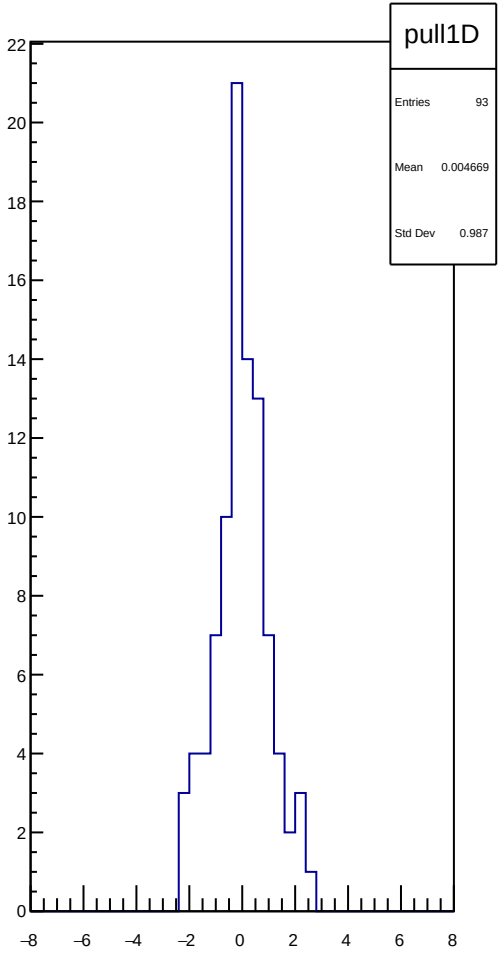

pull1D
Entries 93
Mean 0.09438
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

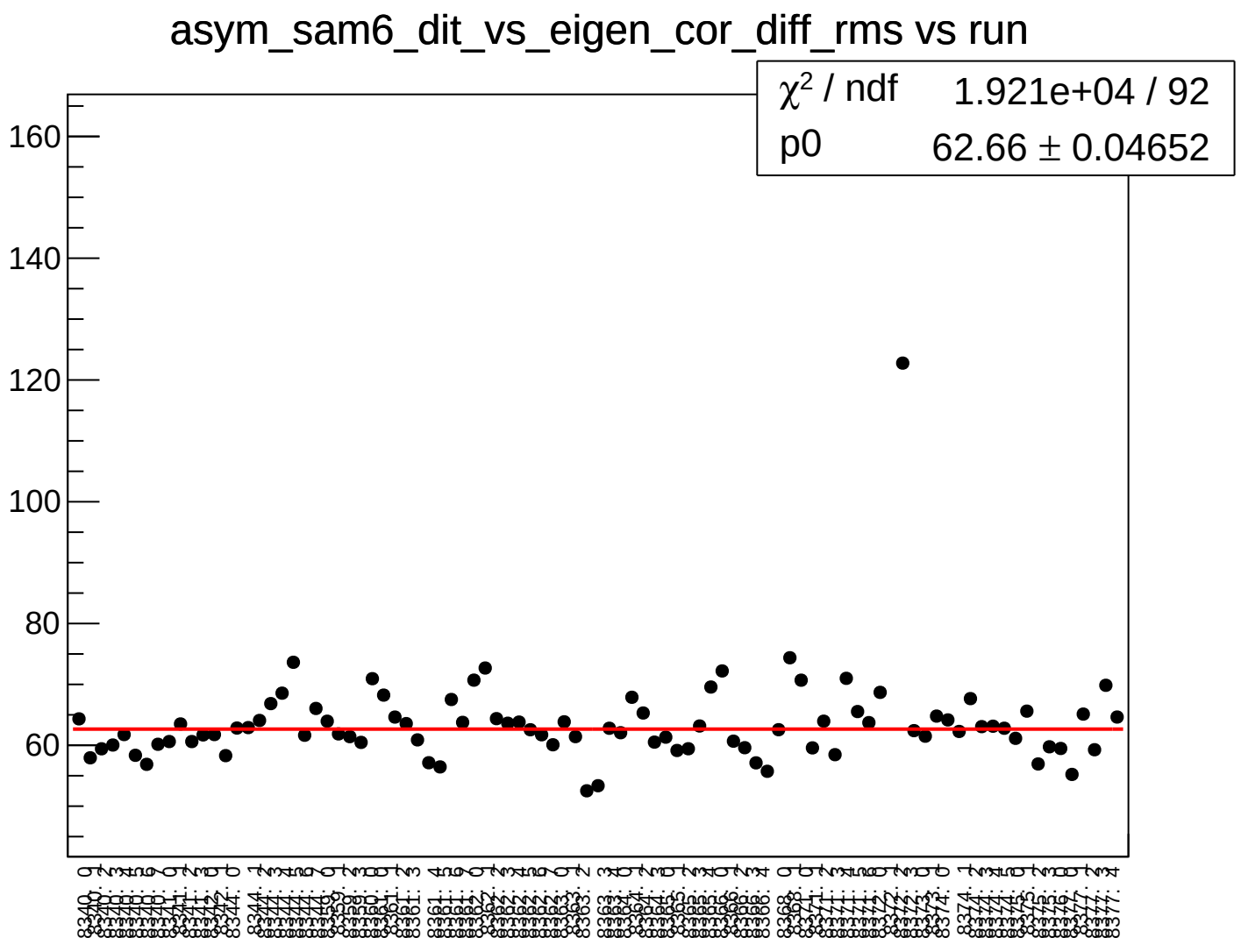

asym_sam6_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.301e+05 / 92
p0 8.652e−11 ± 9.102e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

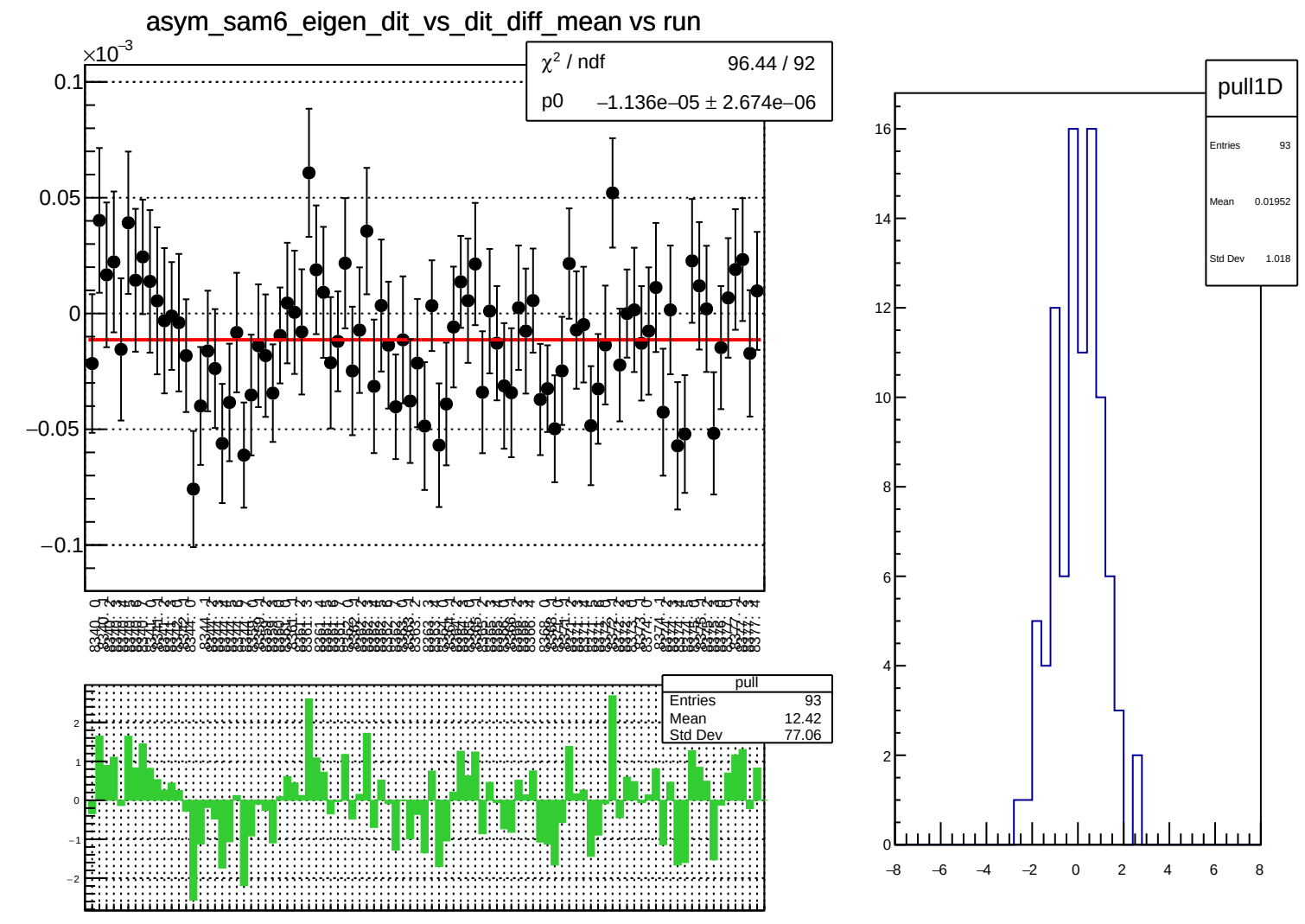

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 92
p0 −0.2875 ± 0.06578
pull
Entries 93
Mean 151.5
Std Dev 0
pull1D
Entries 93
Mean 0.004669
Std Dev 0.987

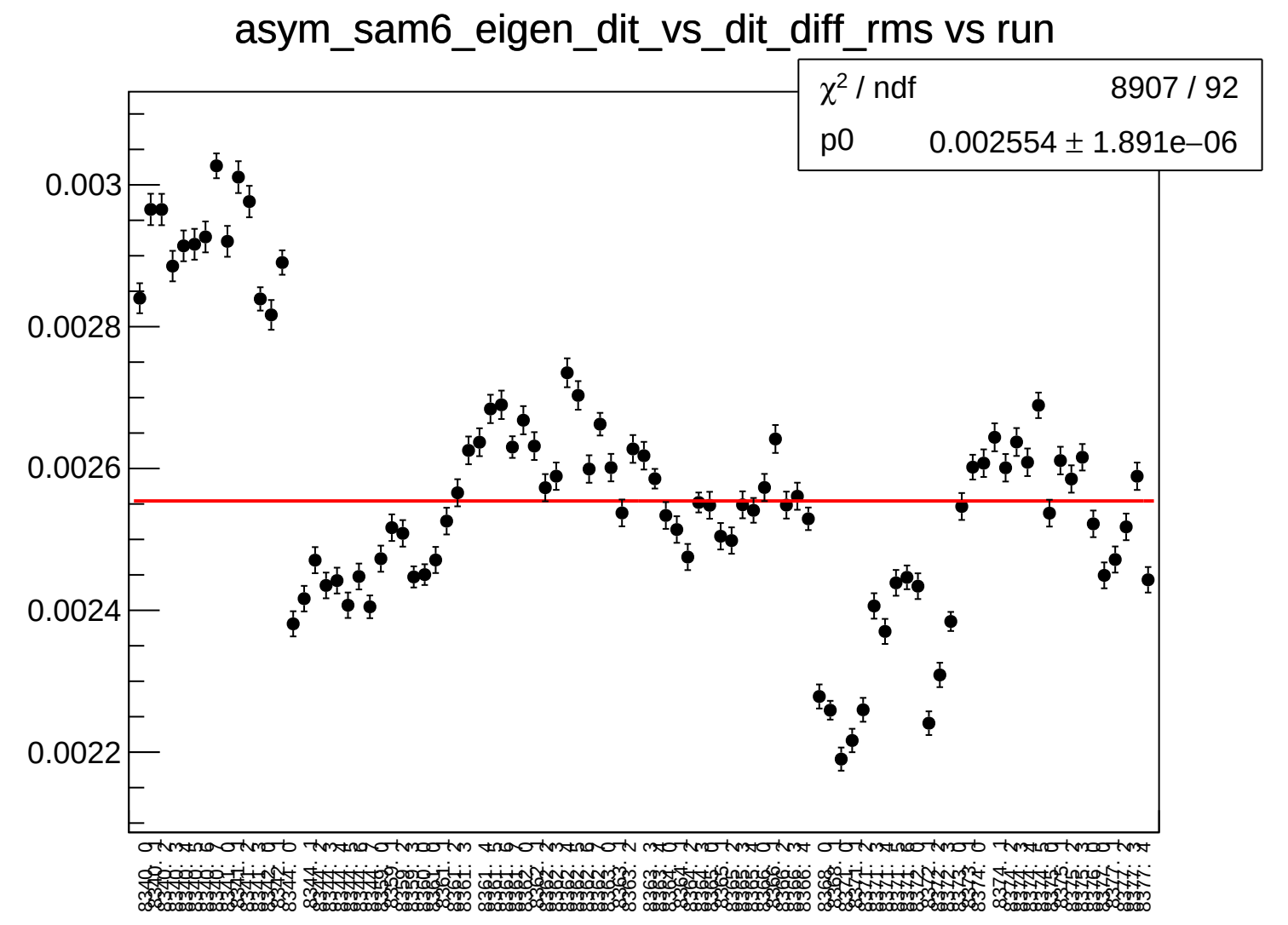

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+04 / 92
p0 62.66 ± 0.04652
160
140
120
100
80
60

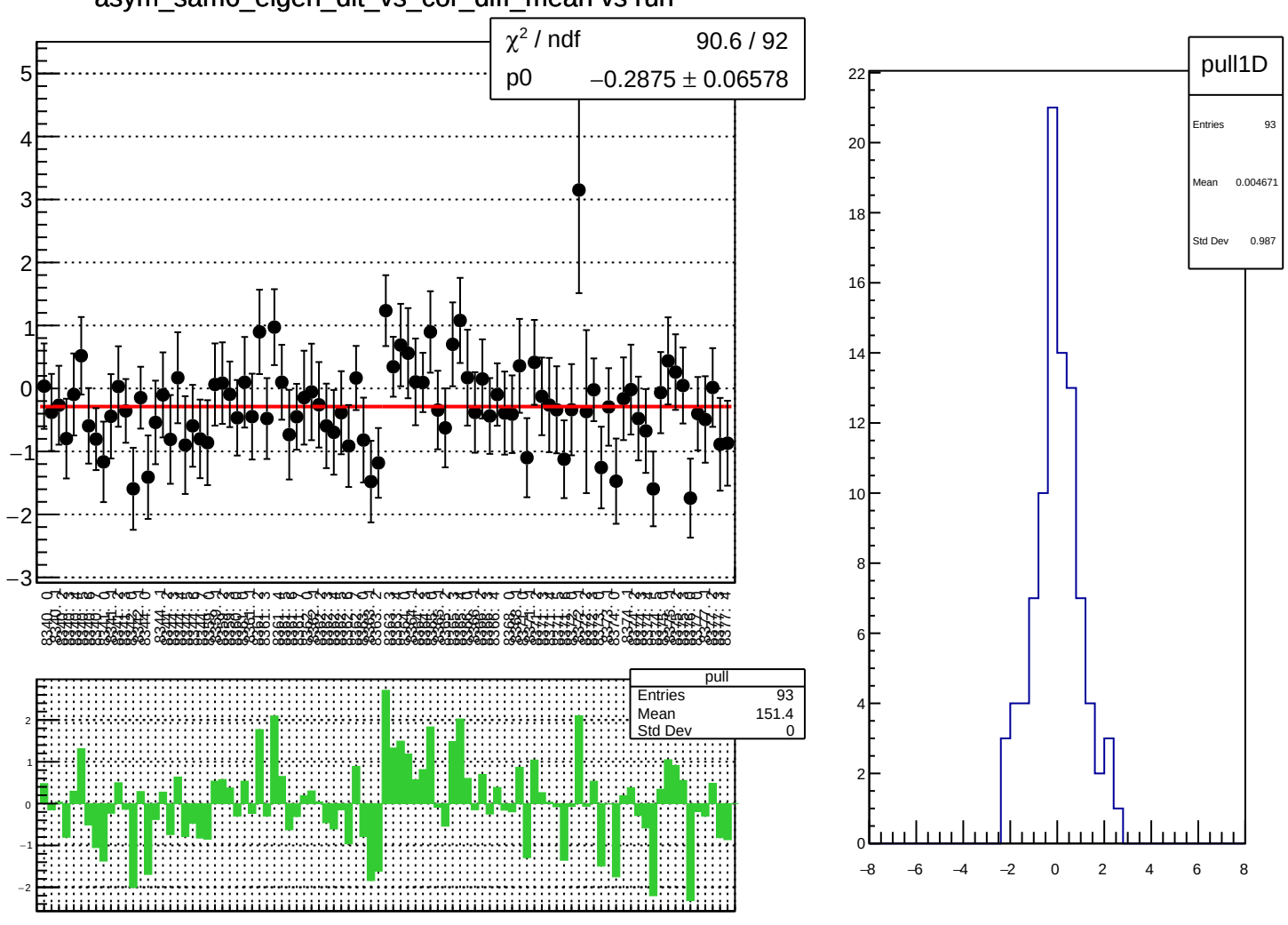

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 92
p0 −0.2875 ± 0.06578
pull
Entries 93
Mean 151.5
Std Dev 0

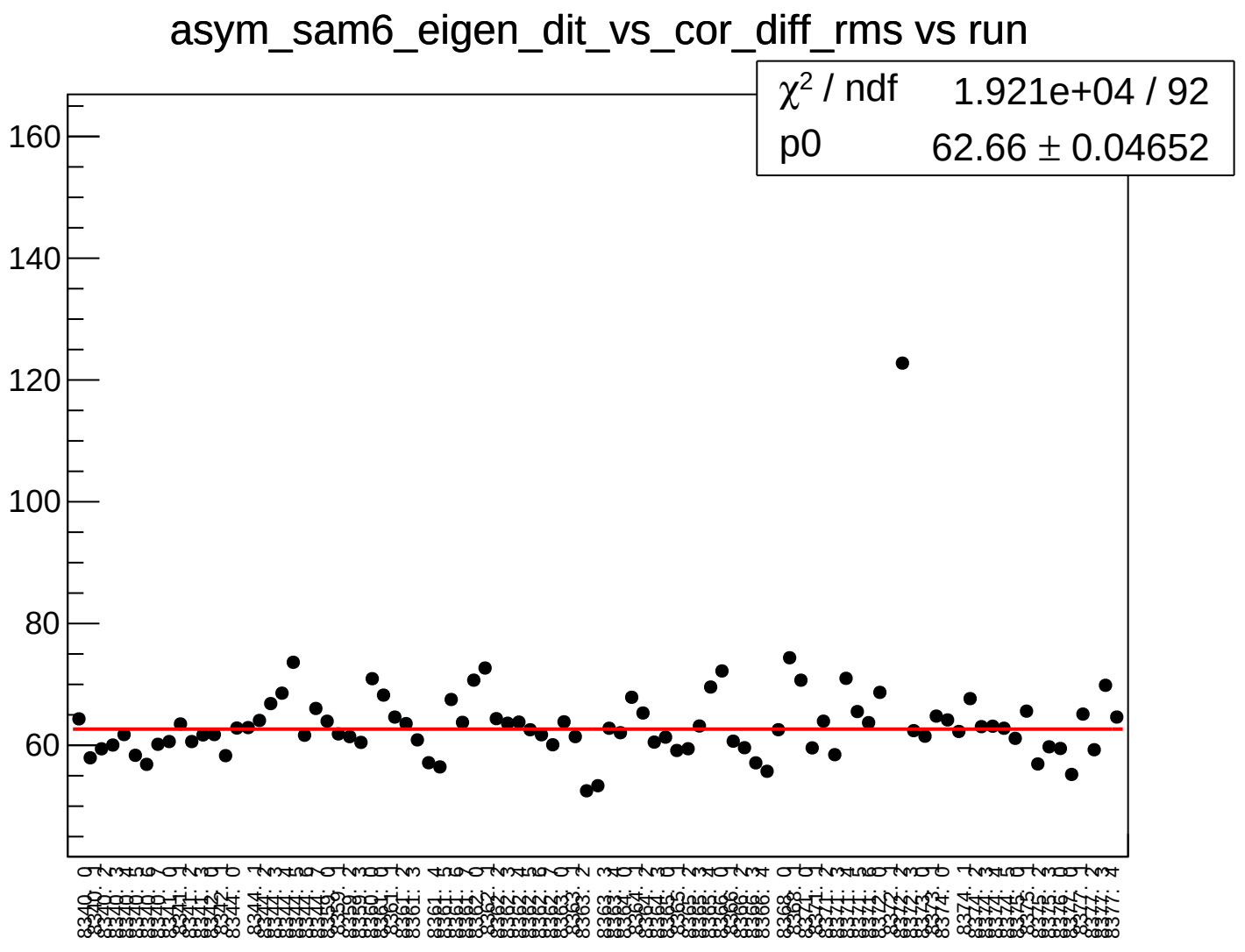

pull1D
Entries 93
Mean 0.004669
Std Dev 0.987

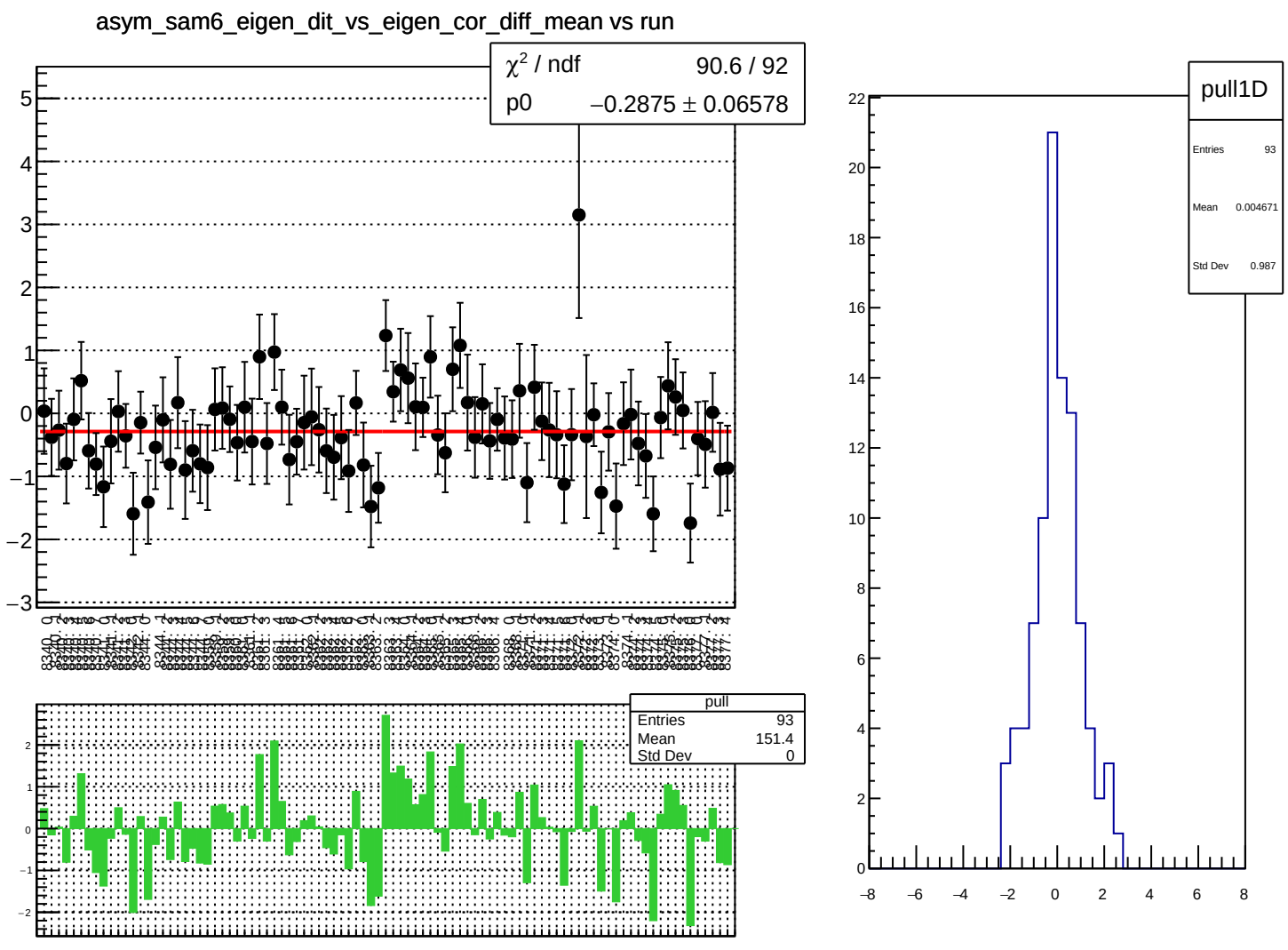

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+04 / 92
p0 62.66 ± 0.04652
160
140
120
100
80
60

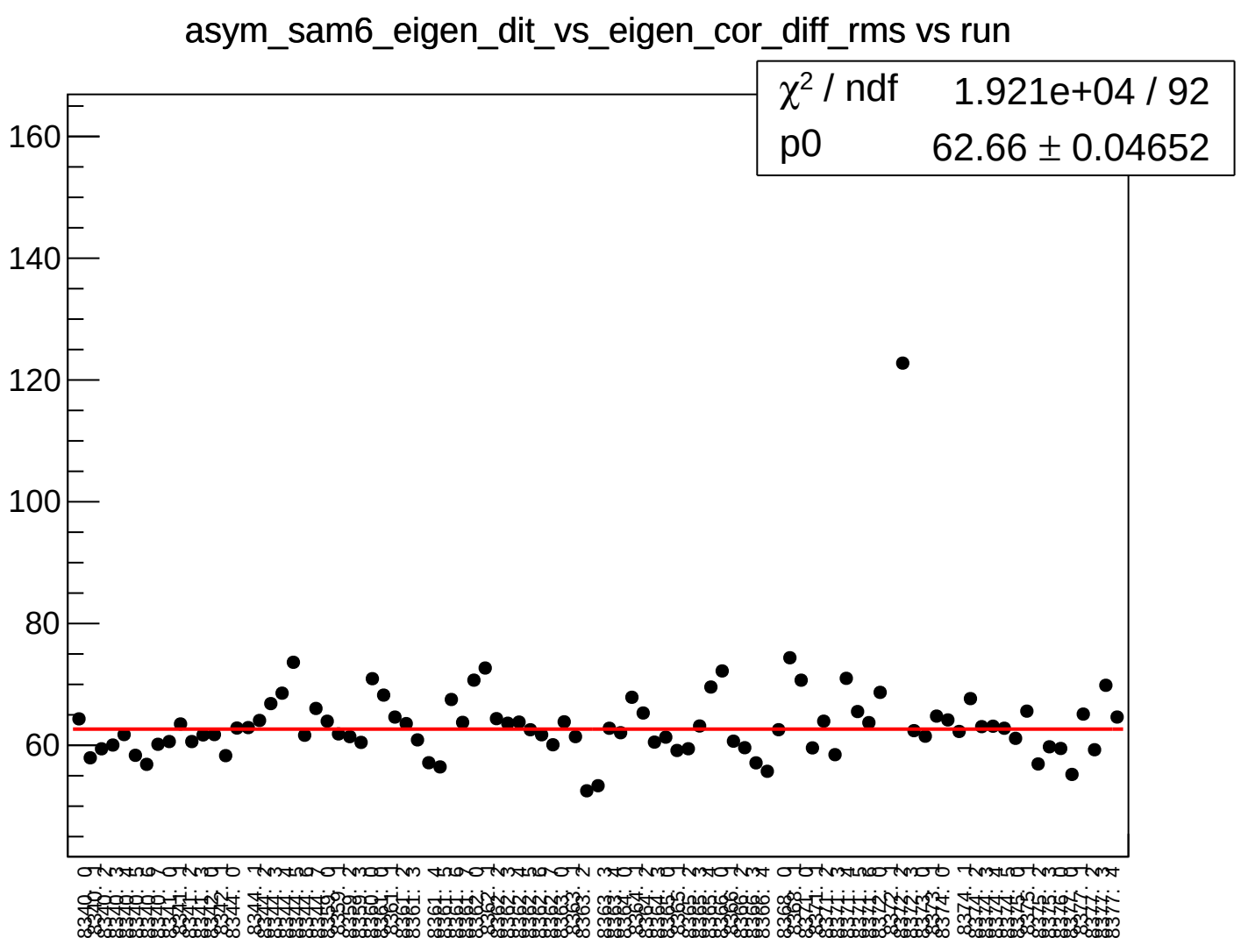

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.44 / 92
p0 −1.136e−05 ± 2.674e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 12.42
Std Dev 77.06
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01952
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

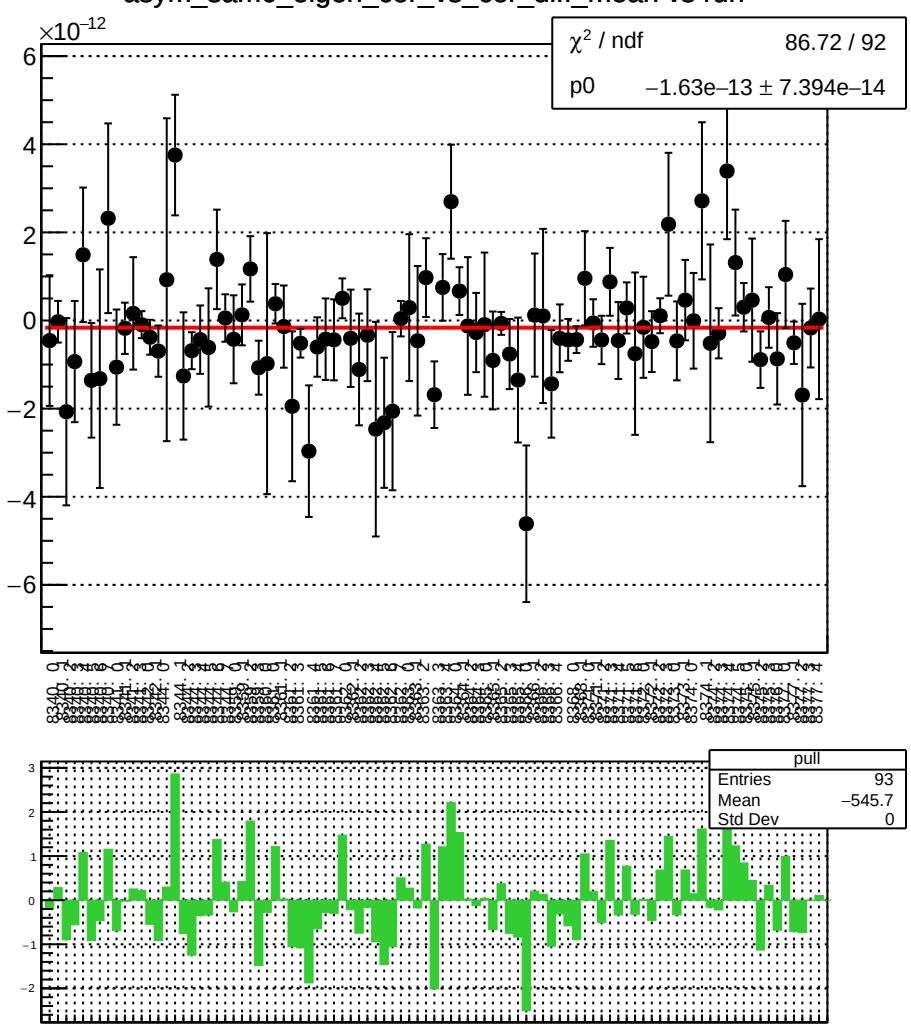

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8907 / 92
p0 0.002554 ± 1.891e−06
0.003
0.0028
0.0026
0.0024
0.0022

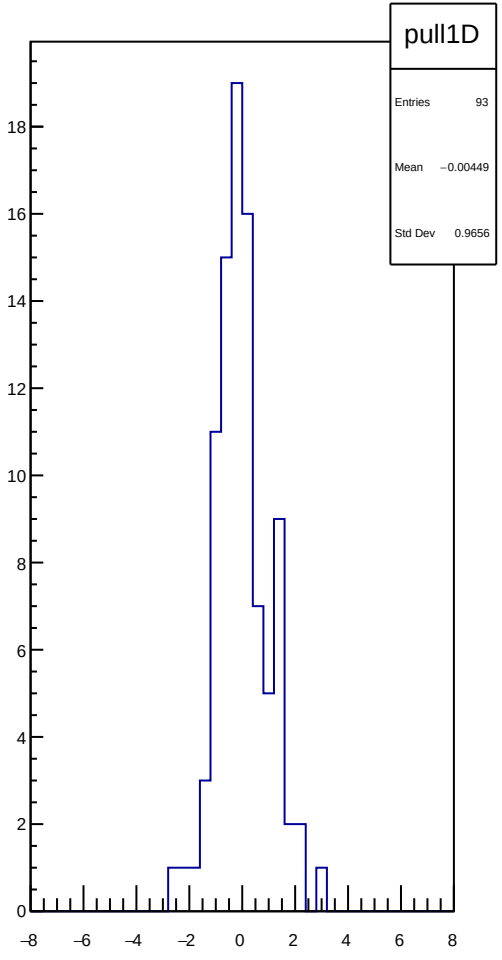

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.6 / 92
p0 −0.2875 ± 0.06578
pull
Entries 93
Mean 151.4
Std Dev 0
pull1D
Entries 93
Mean 0.004671
Std Dev 0.987

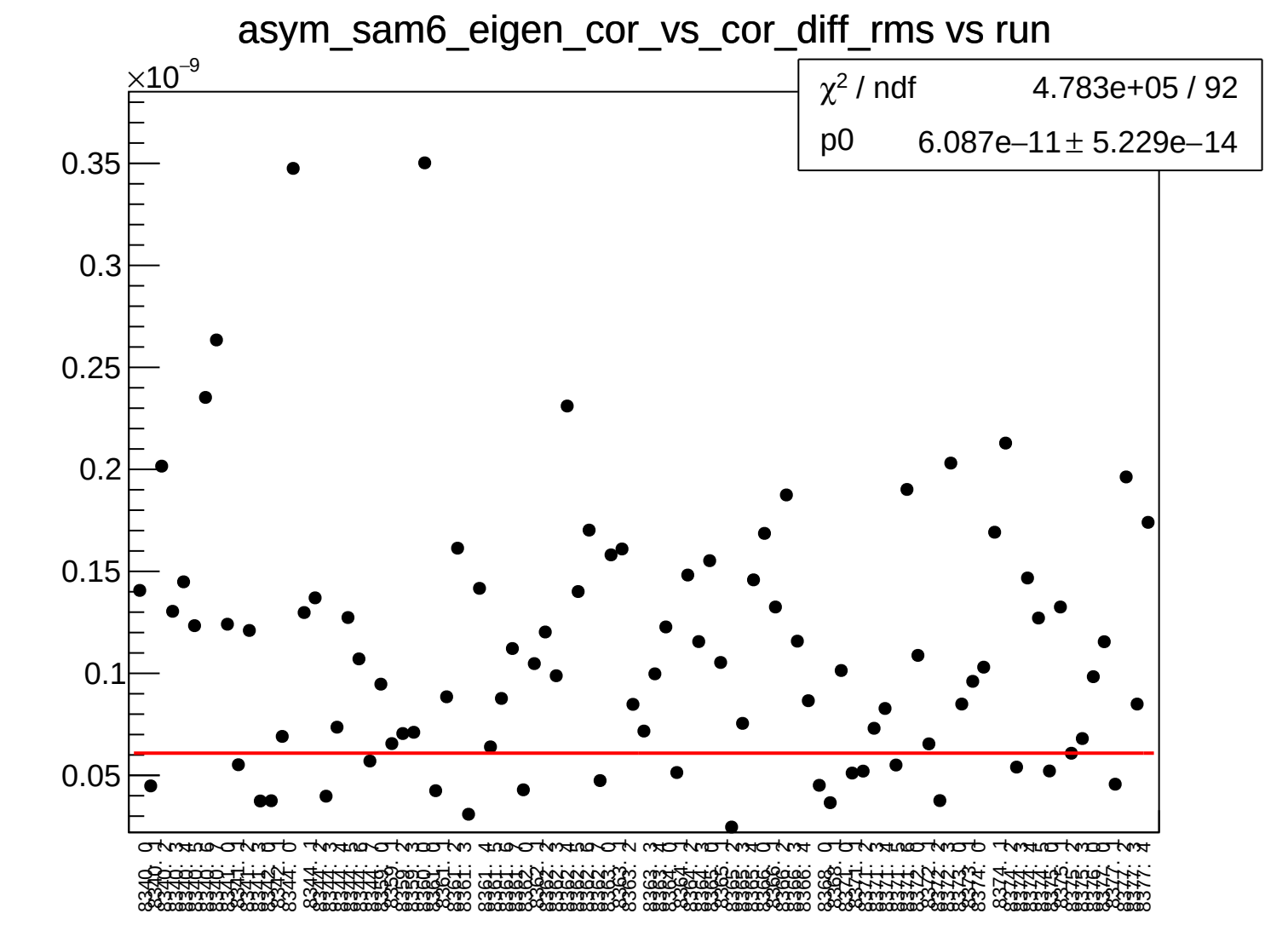

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.921e+04 / 92
p0 62.66 ± 0.04652
160
140
120
100
80
60

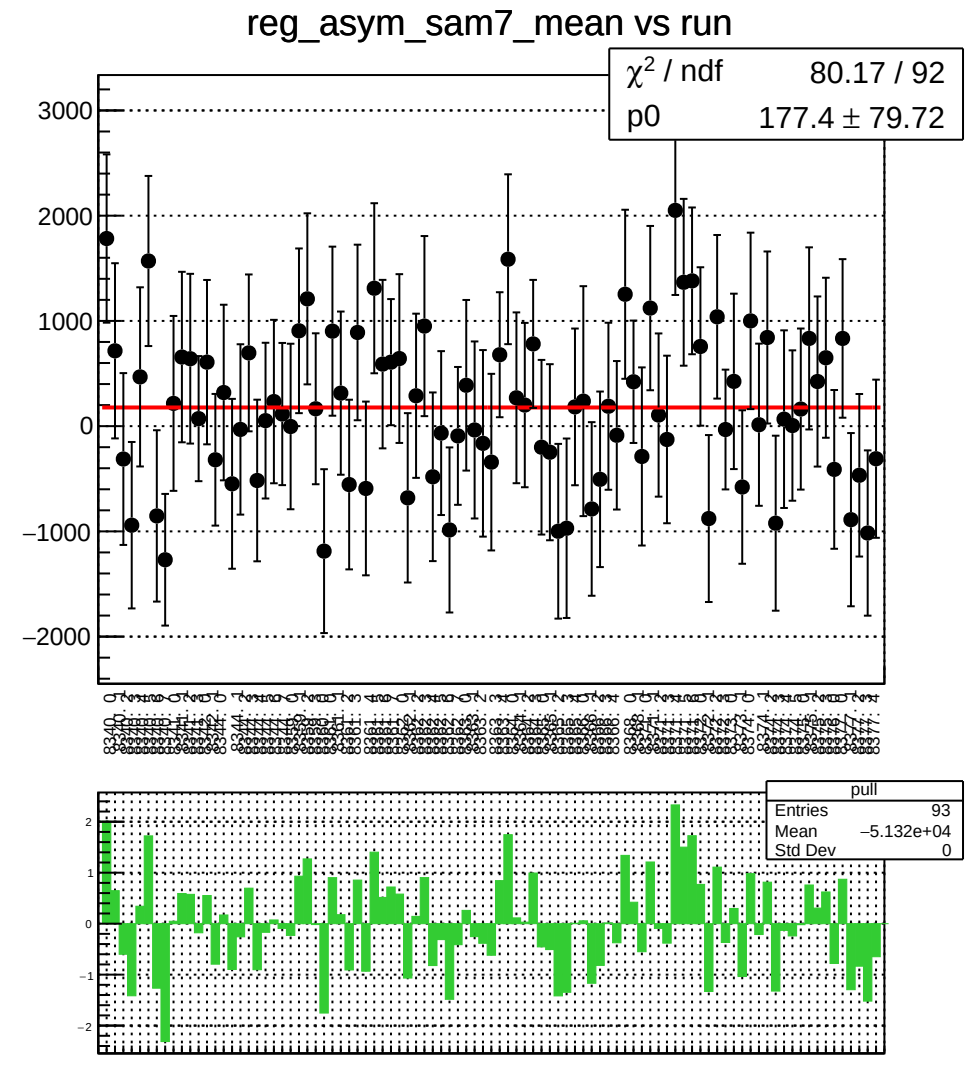

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.6 / 92
p0 −0.2875 ± 0.06578
pull
Entries 93
Mean 151.4
Std Dev 0
pull1D
Entries 93
Mean 0.004671
Std Dev 0.987

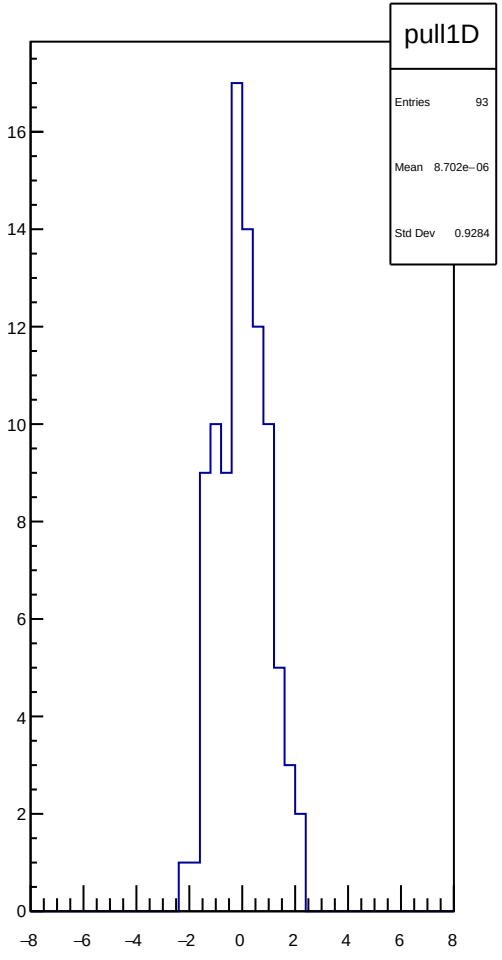

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.921e+04 / 92
p0 62.66 ± 0.04652
160
140
120
100
80
60

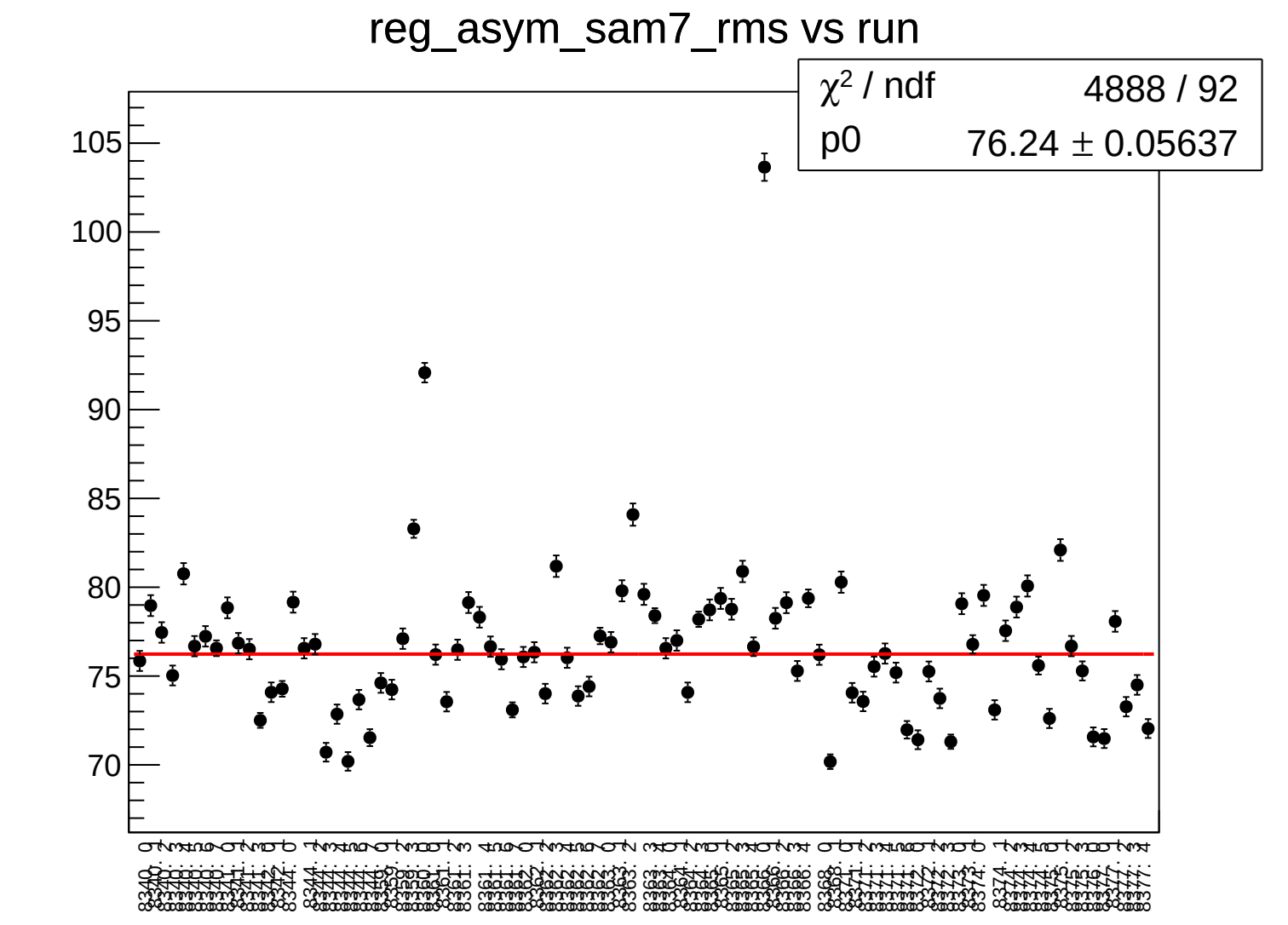

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.72 / 92
p0 −1.63e−13 ± 7.394e−14
pull
Entries 93
Mean −545.7
Std Dev 0

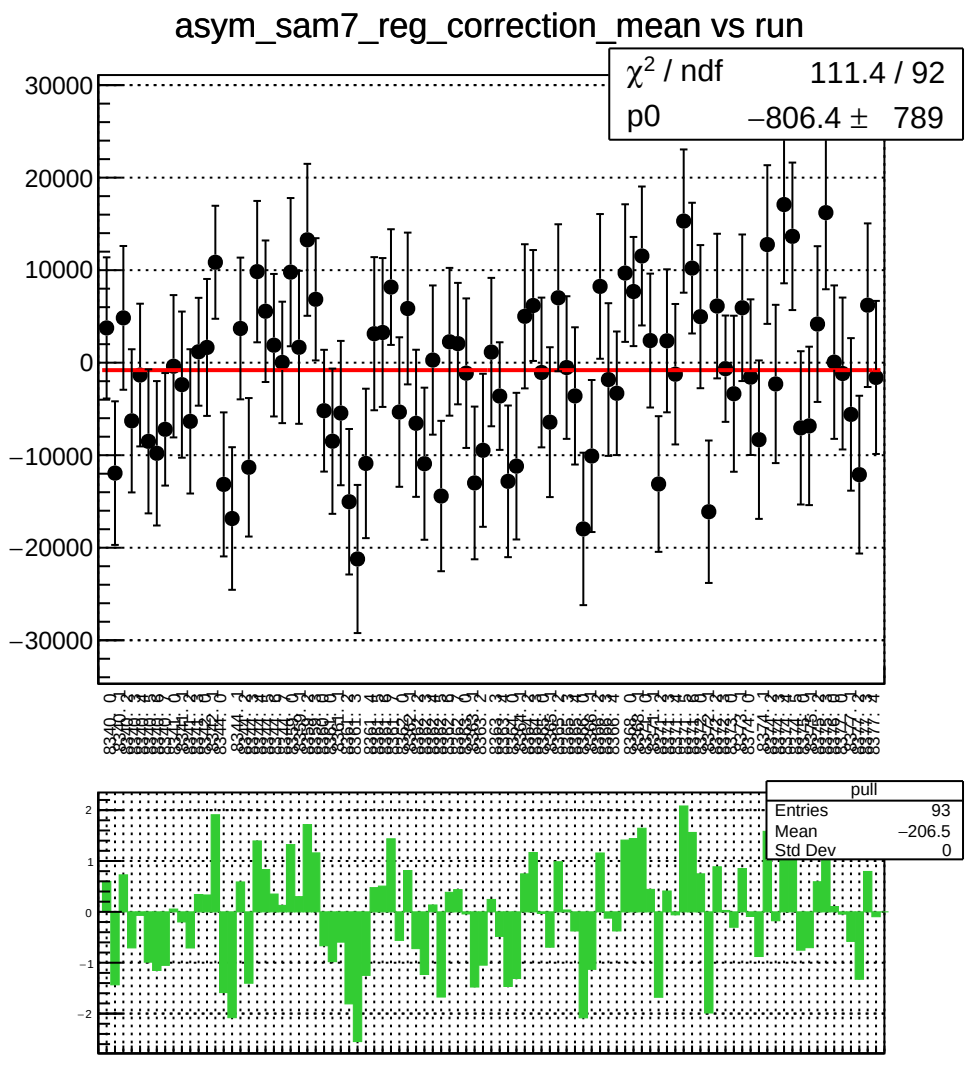

pull1D
Entries 93
Mean −0.00449
Std Dev 0.9656

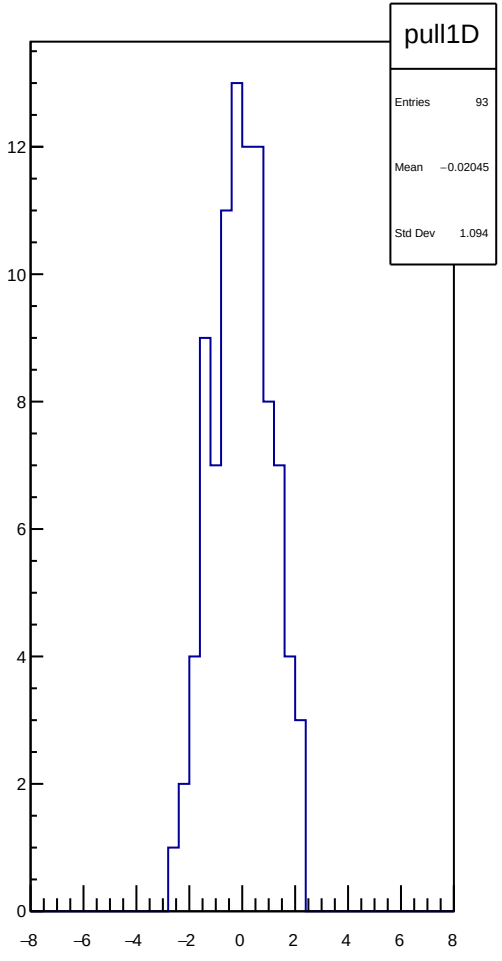

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.783e+05 / 92
p0 6.087e−11 ± 5.229e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

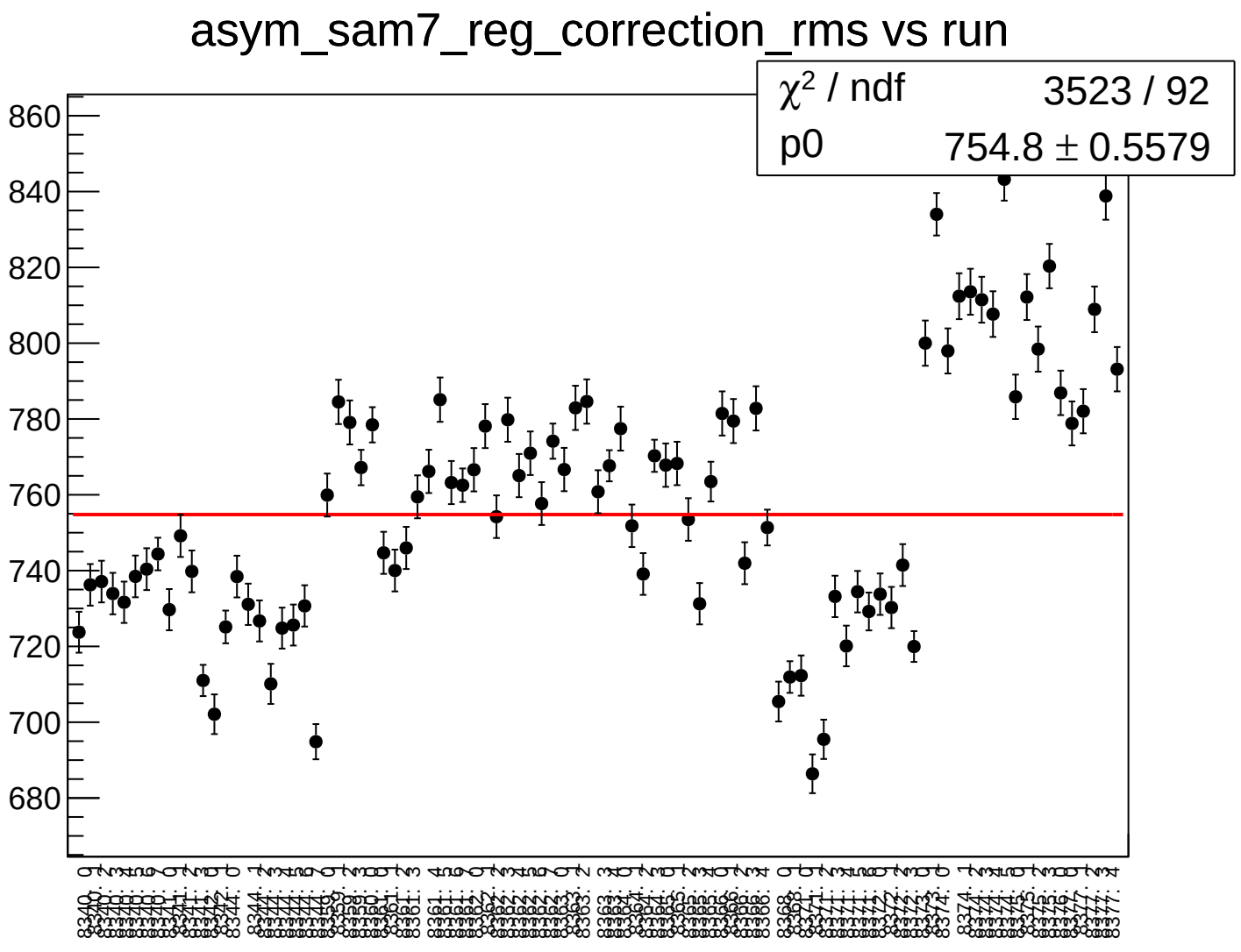

reg_asym_sam7_mean vs run
χ² / ndf 80.17 / 92
p0 177.4 ± 79.72
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −5.132e+04
Std Dev 0
2
1
0
−1
−2

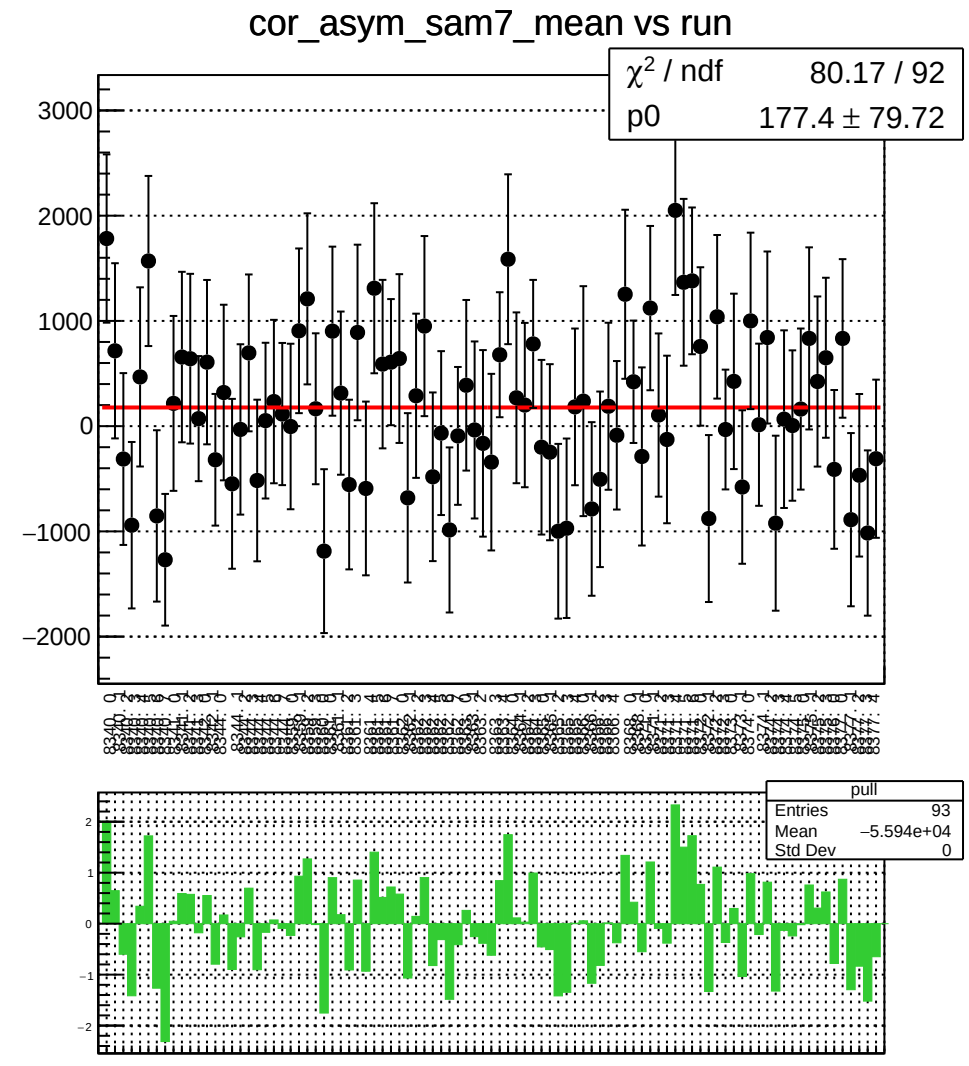

pull1D
Entries 93
Mean 8.702e−06
Std Dev 0.9284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

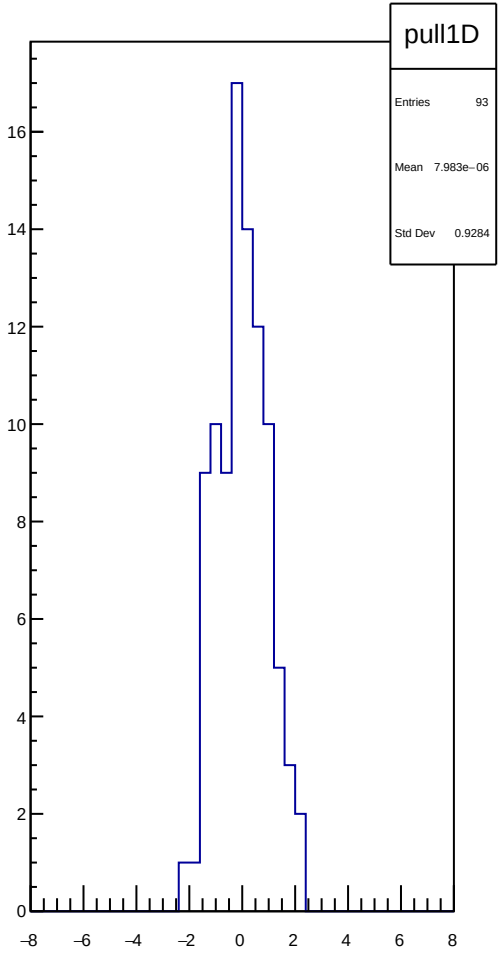

reg_asym_sam7_rms vs run
χ^2 / ndf 4888 / 92
p0 76.24 ± 0.05637
105
100
95
90
85
80
75
70

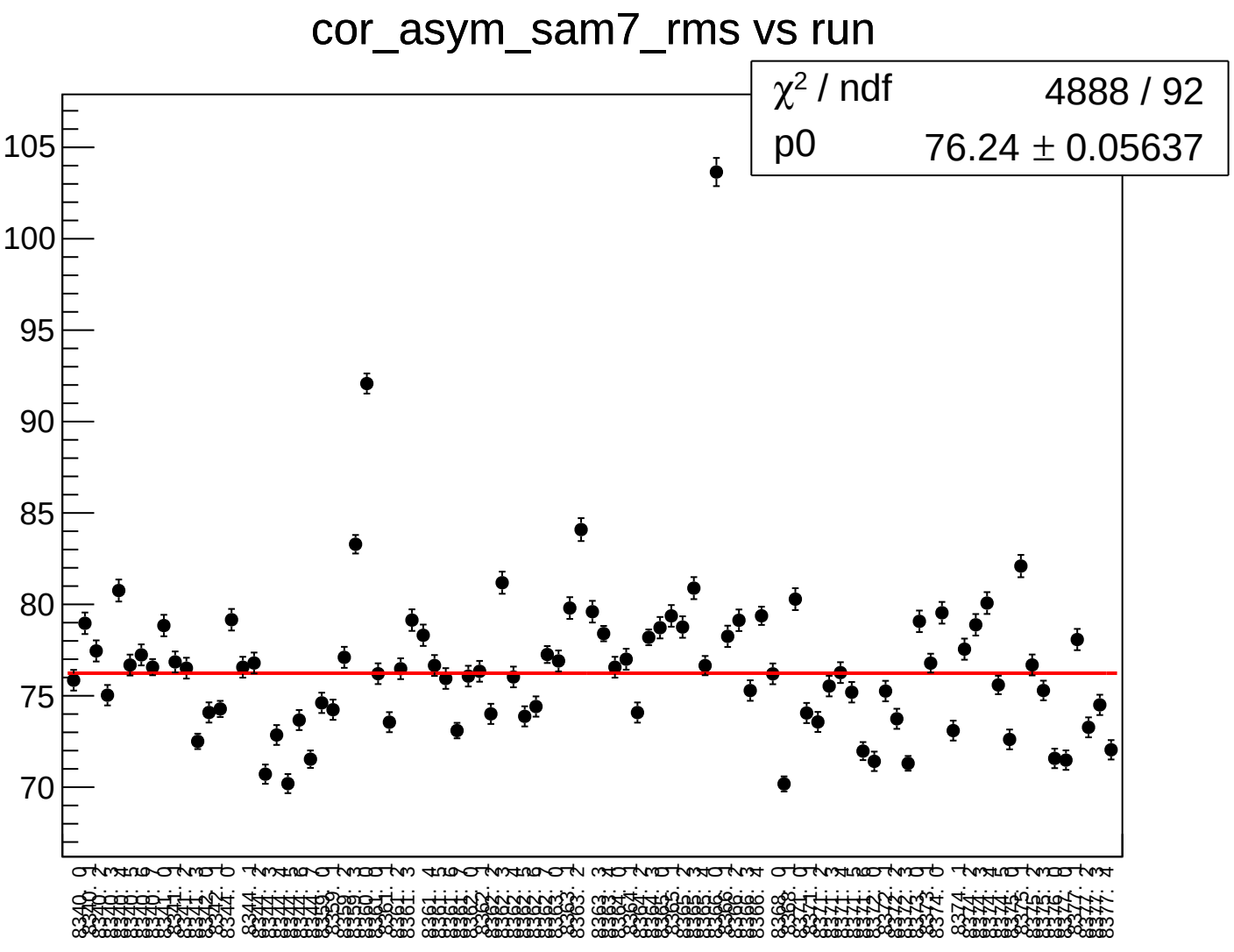

asym_sam7_reg_correction_mean vs run
χ² / ndf 111.4 / 92
p0 −806.4 ± 789
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −206.5
Std Dev 0
2
1
0
−1
−2

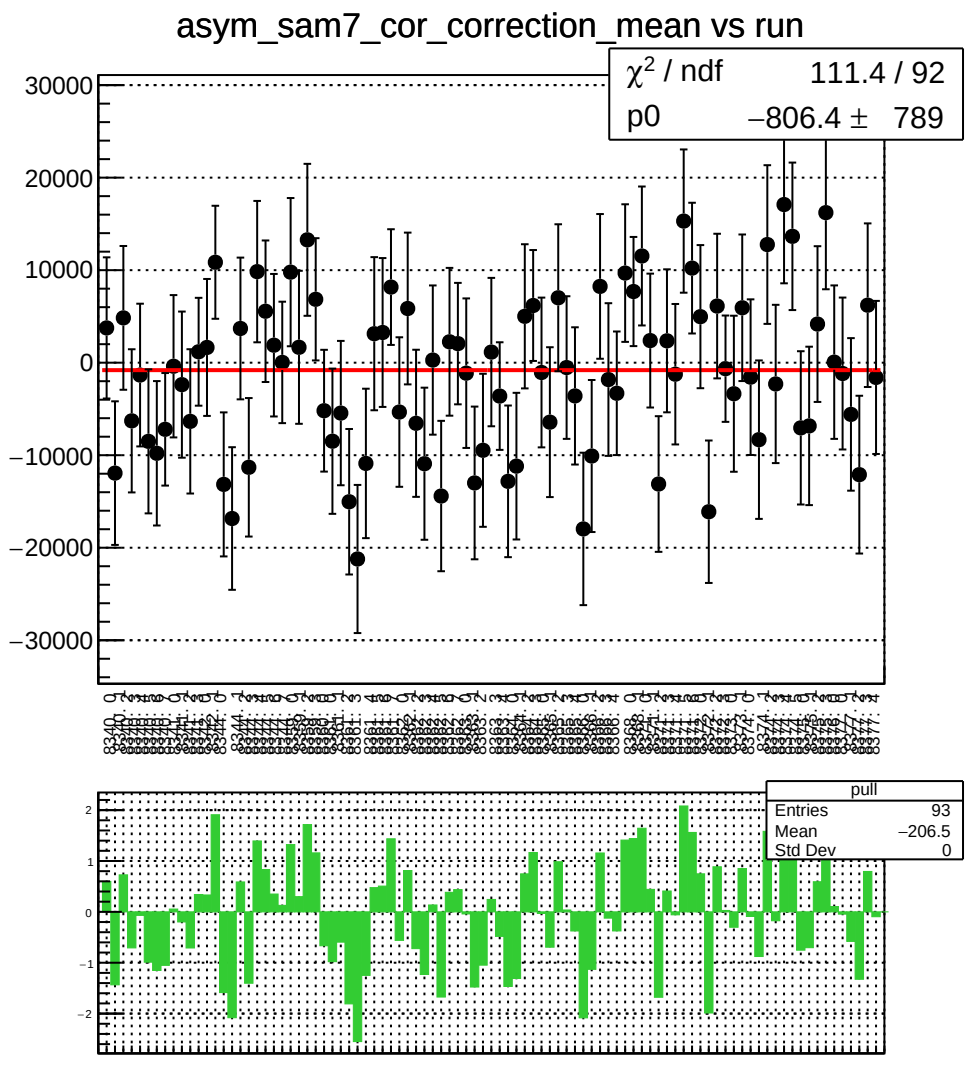

pull1D
Entries 93
Mean −0.02045
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

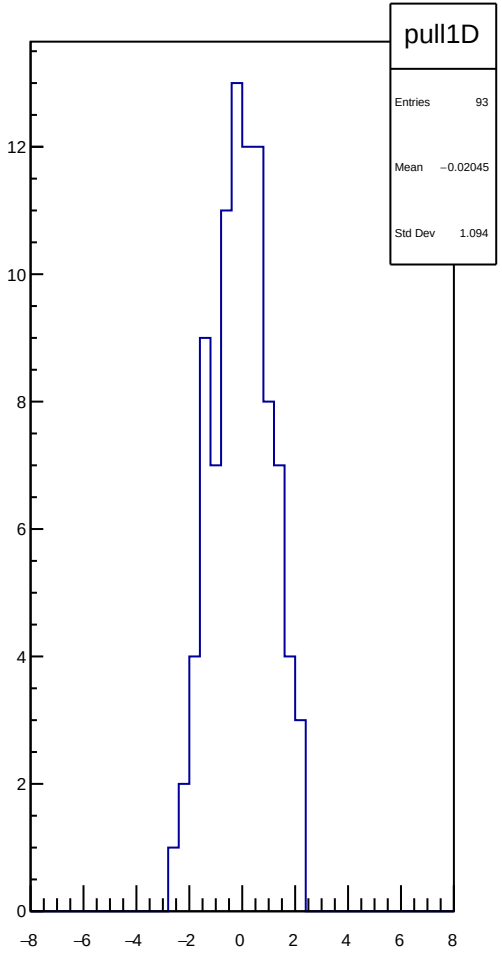

asym_sam7_reg_correction_rms vs run
χ² / ndf 3523 / 92
p0 754.8 ± 0.5579
860
840
820
800
780
760
740
720
700
680

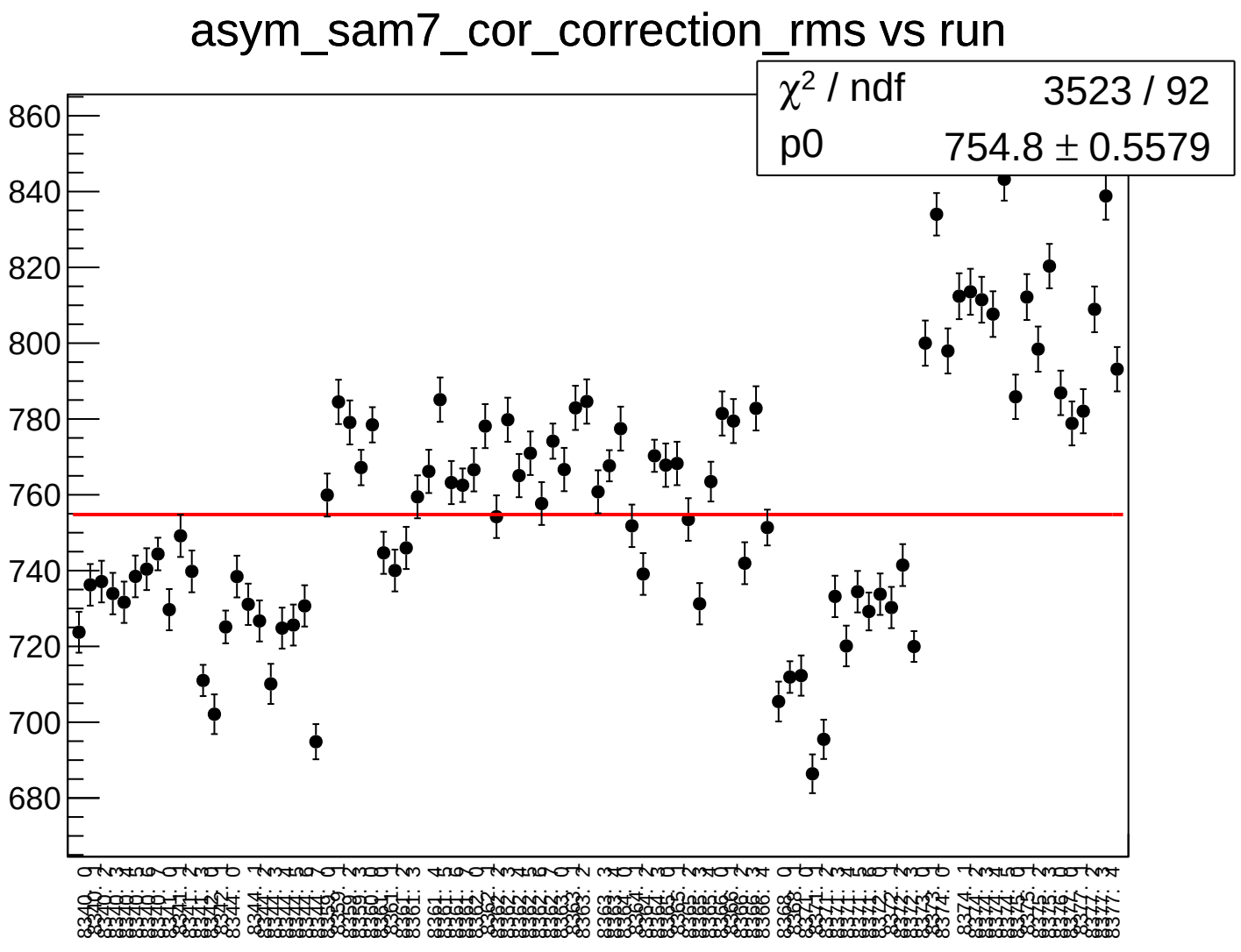

cor_asym_sam7_mean vs run
χ² / ndf 80.17 / 92
p0 177.4 ± 79.72
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −5.594e+04
Std Dev 0
2
1
0
−1
−2

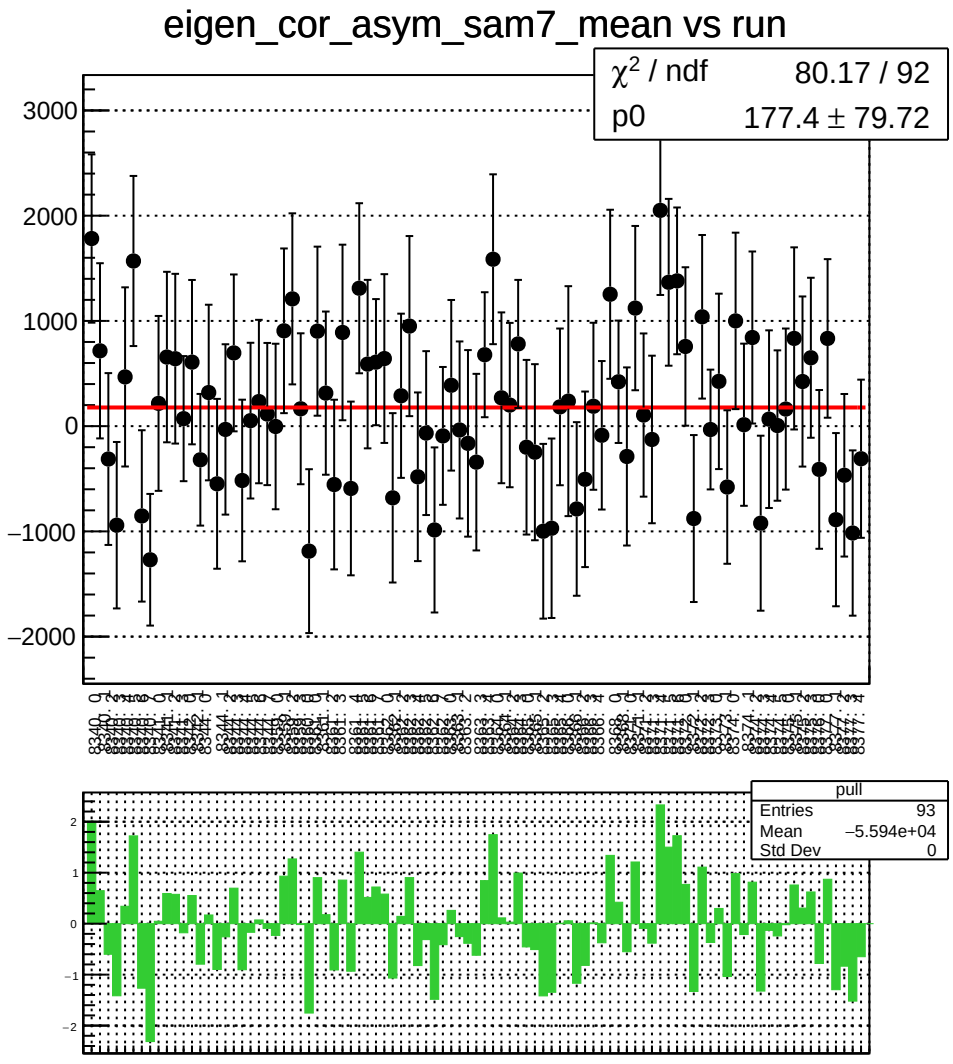

pull1D
Entries 93
Mean 7.983e−06
Std Dev 0.9284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

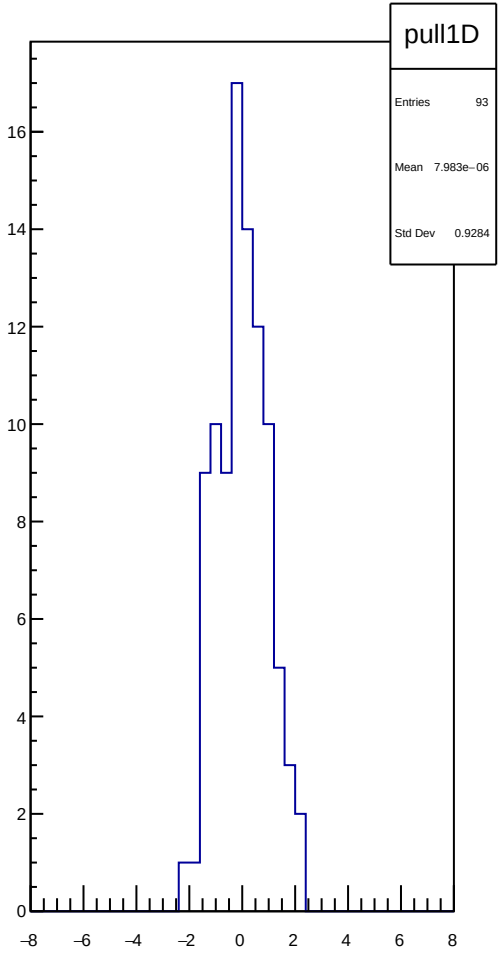

cor_asym_sam7_rms vs run
χ² / ndf 4888 / 92
p0 76.24 ± 0.05637
105
100
95
90
85
80
75
70

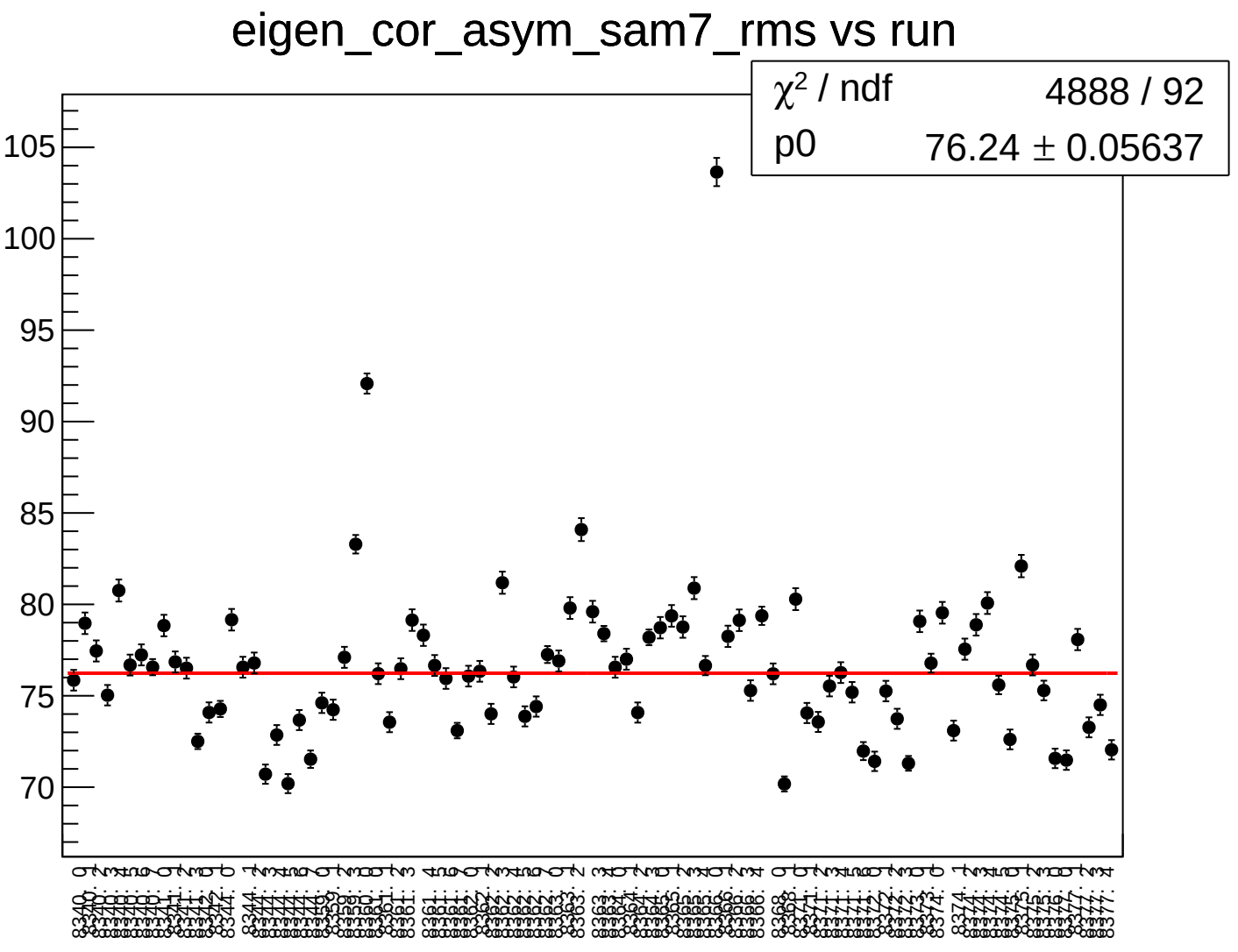

asym_sam7_cor_correction_mean vs run
χ² / ndf 111.4 / 92
p0 −806.4 ± 789
pull
Entries 93
Mean −206.5
Std Dev 0

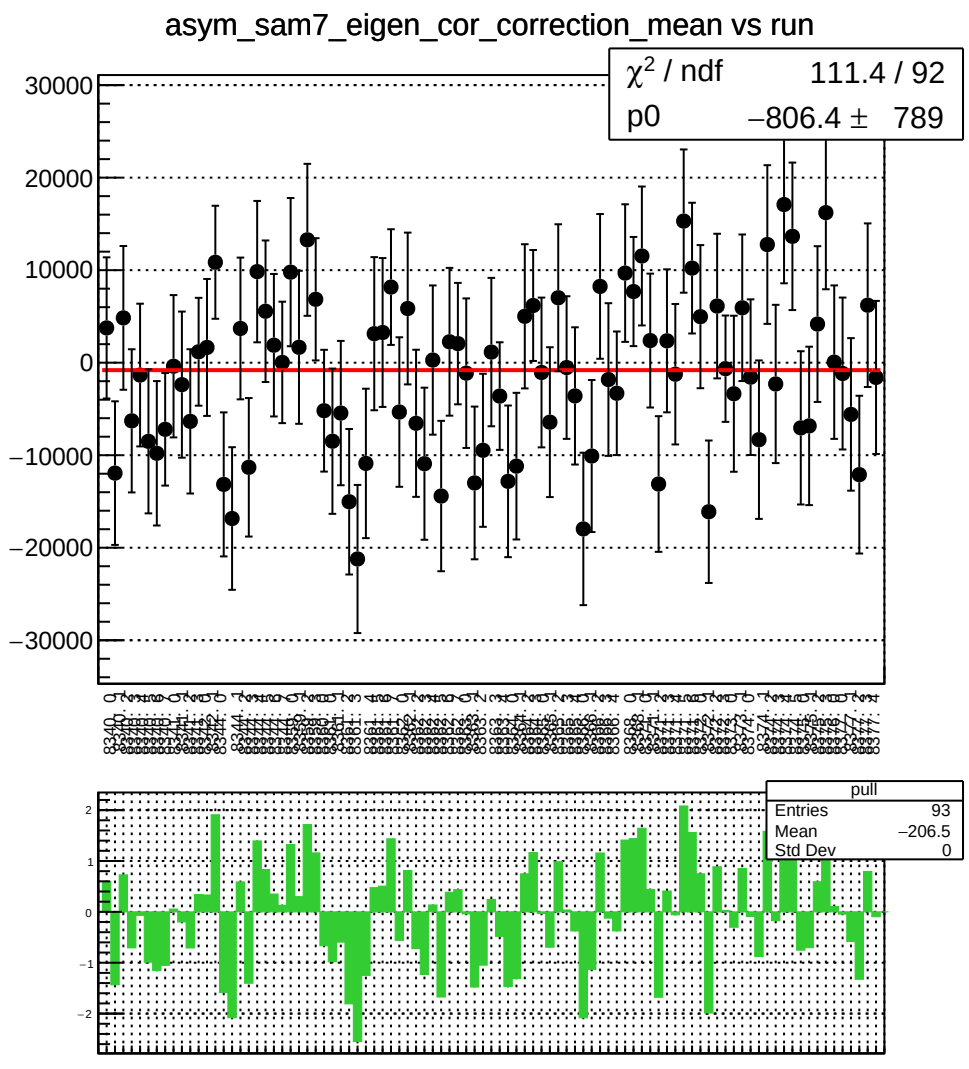

pull1D
Entries 93
Mean −0.02045
Std Dev 1.094

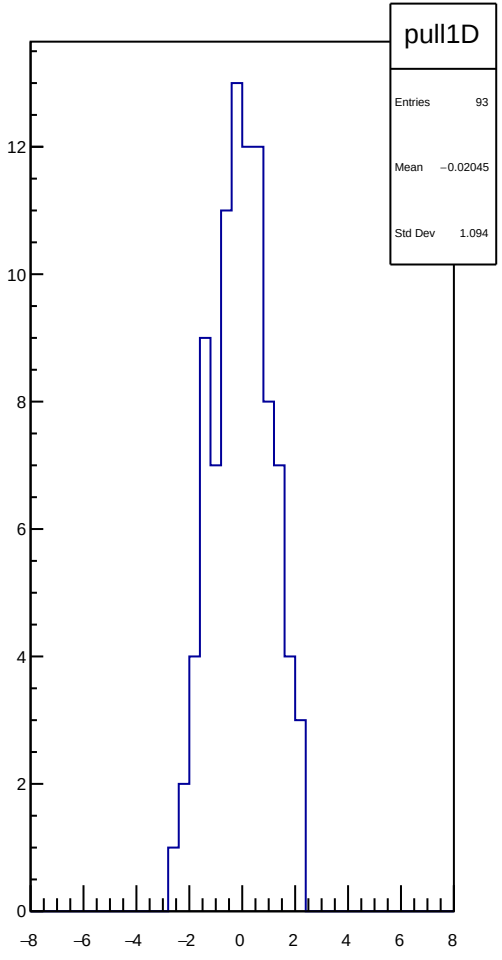

asym_sam7_cor_correction_rms vs run
χ² / ndf 3523 / 92
p0 754.8 ± 0.5579
860
840
820
800
780
760
740
720
700
680

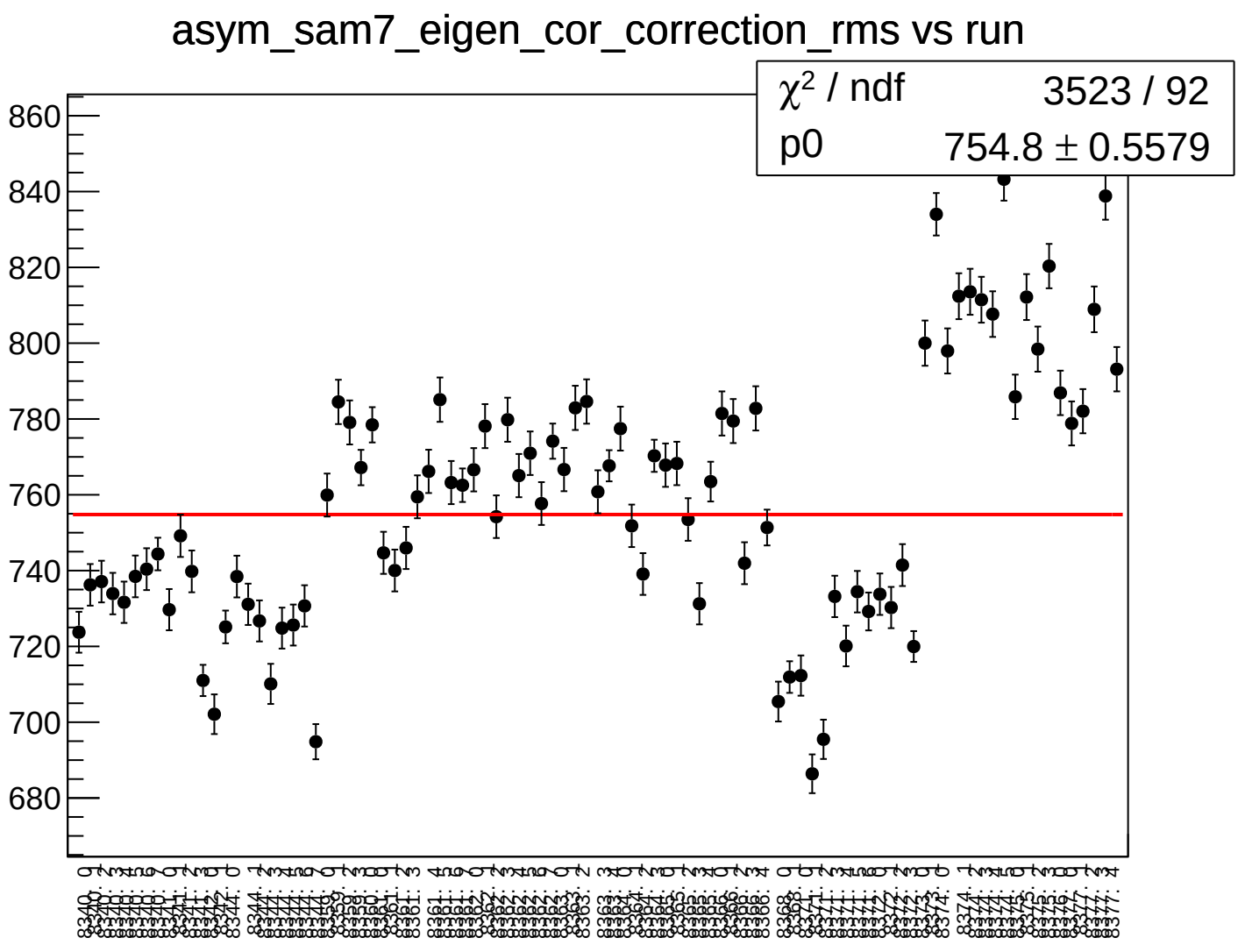

eigen_cor_asym_sam7_mean vs run
χ² / ndf 80.17 / 92
p0 177.4 ± 79.72
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −5.594e+04
Std Dev 0
2
1
0
−1
−2

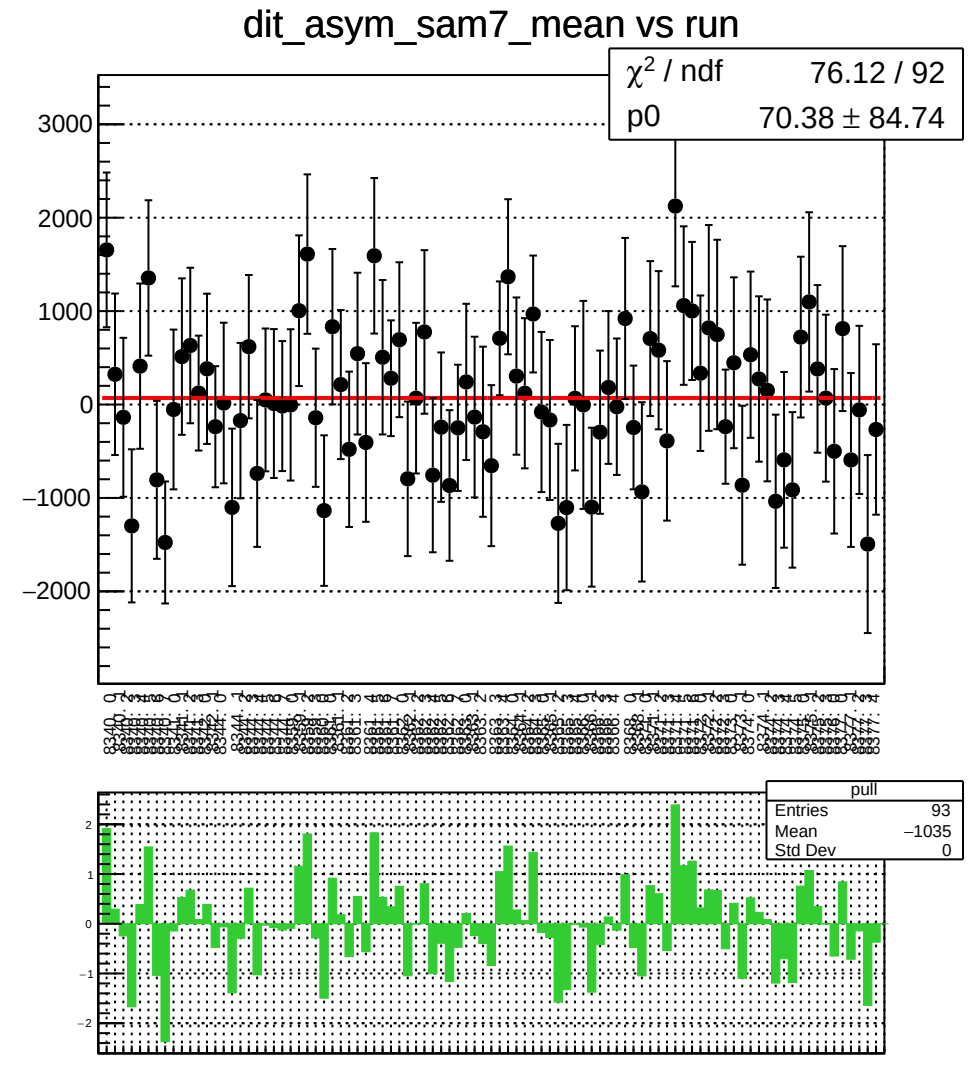

pull1D
Entries 93
Mean 7.983e−06
Std Dev 0.9284
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

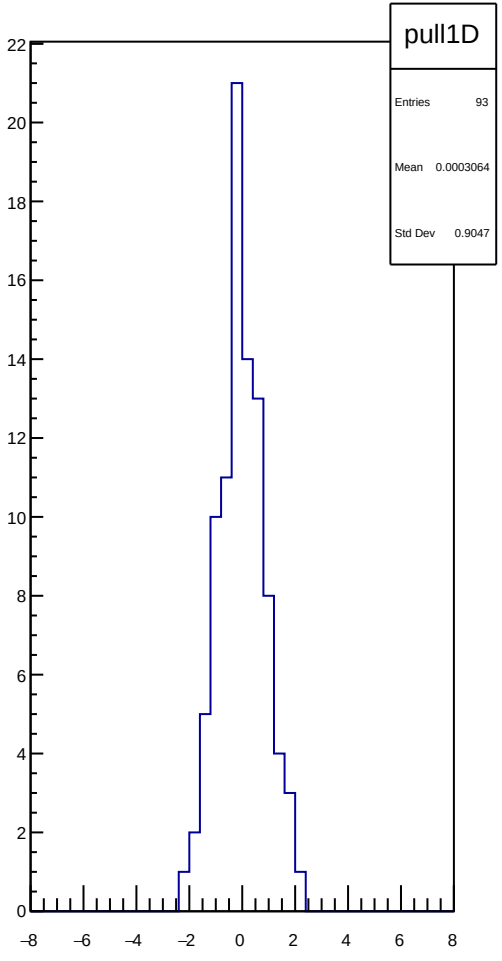

eigen_cor_asym_sam7_rms vs run
χ² / ndf 4888 / 92
p0 76.24 ± 0.05637
105
100
95
90
85
80
75
70

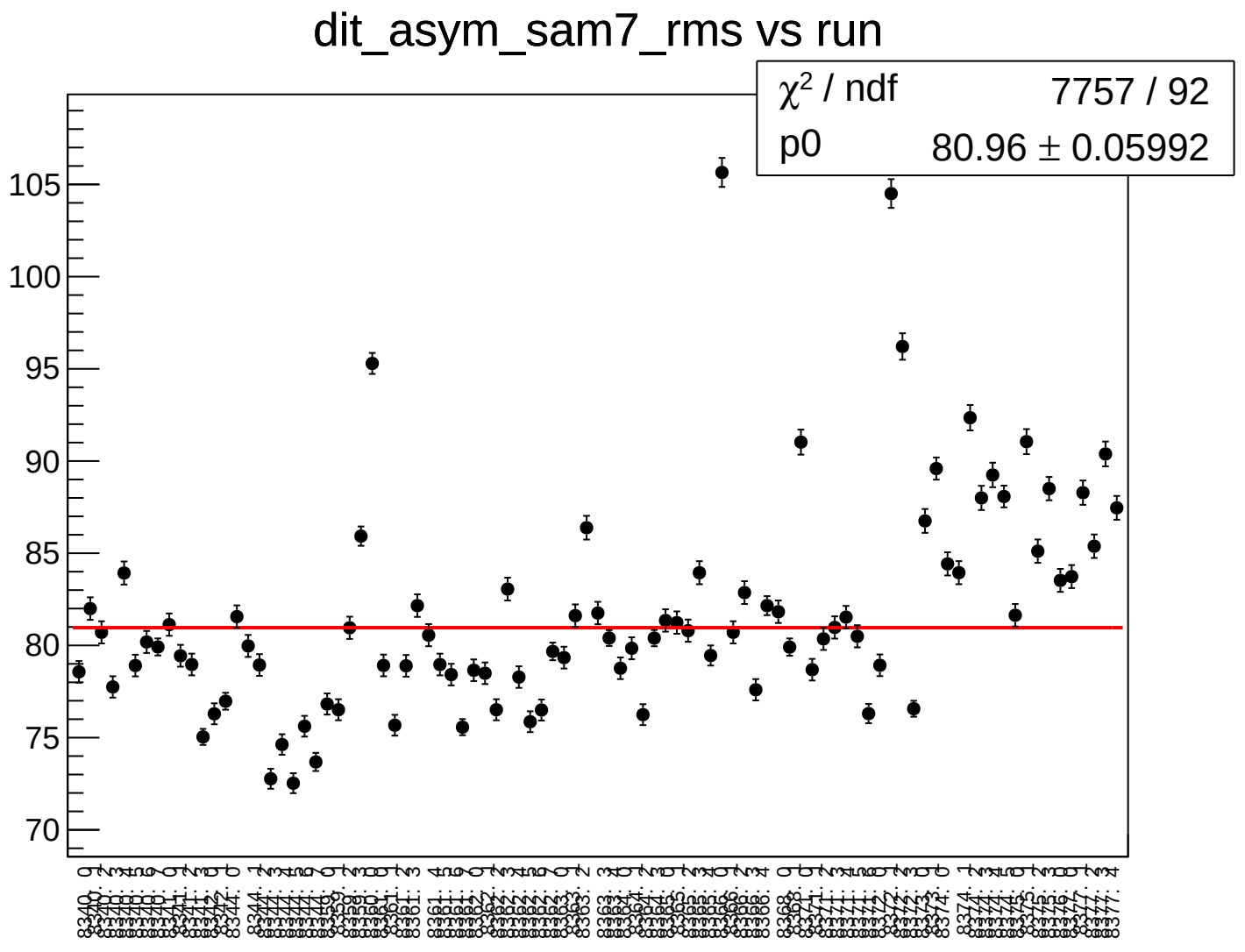

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 92
p0 −806.4 ± 789
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −206.5
Std Dev 0
2
1
0
−1
−2

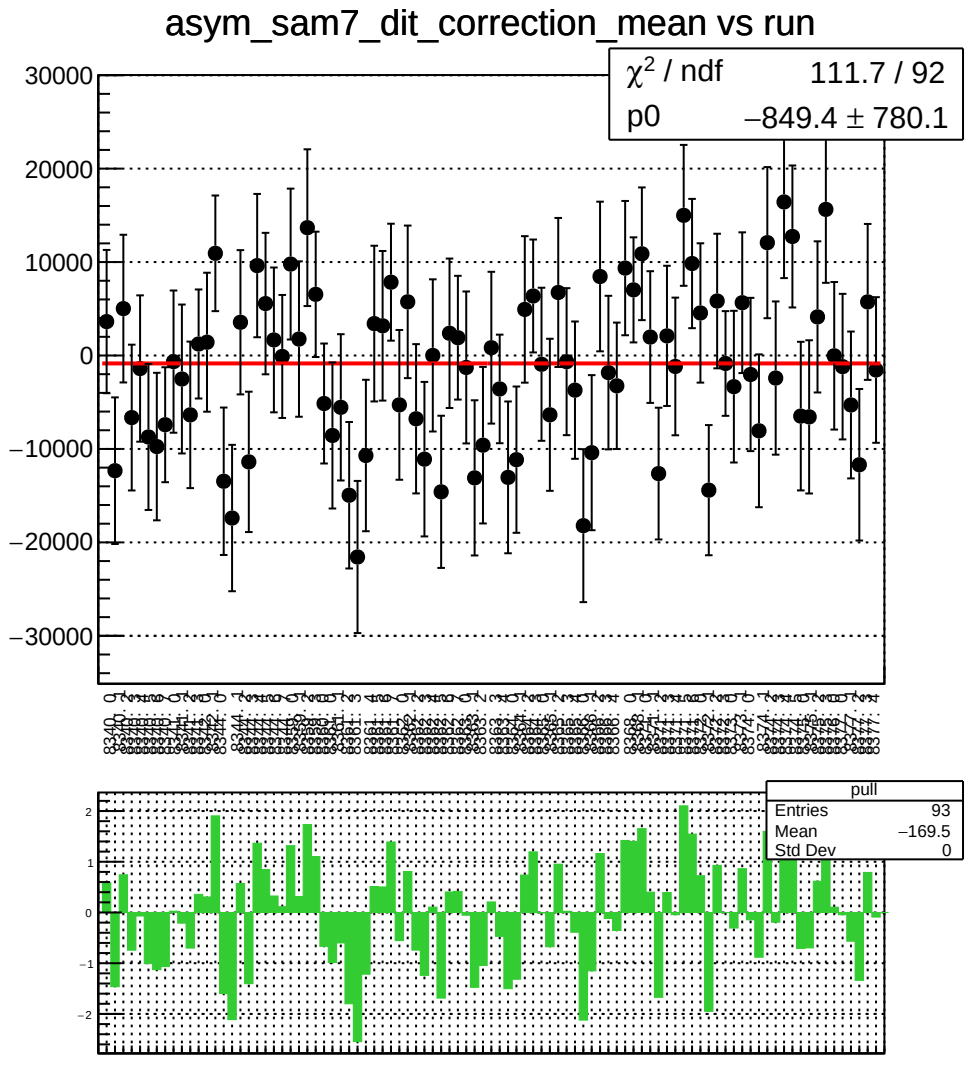

pull1D
Entries 93
Mean −0.02045
Std Dev 1.094
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

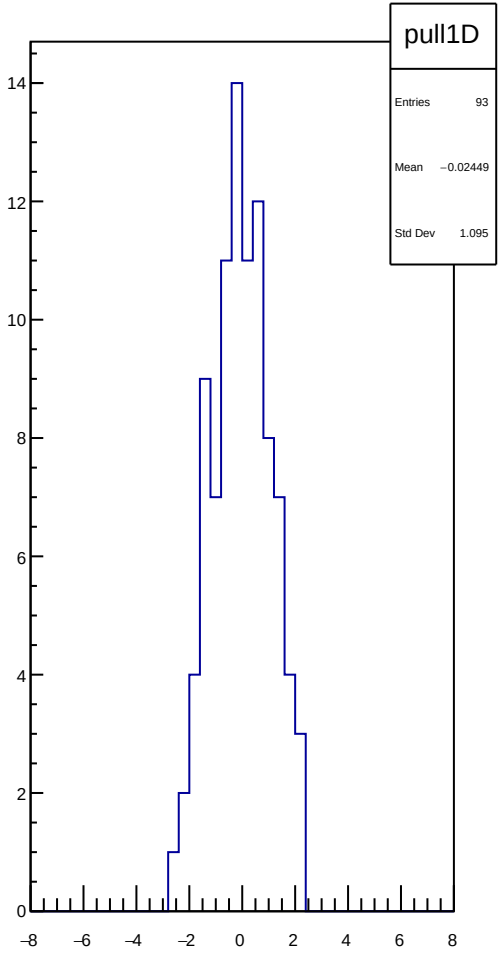

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 3523 / 92
p0 754.8 ± 0.5579
860
840
820
800
780
760
740
720
700
680

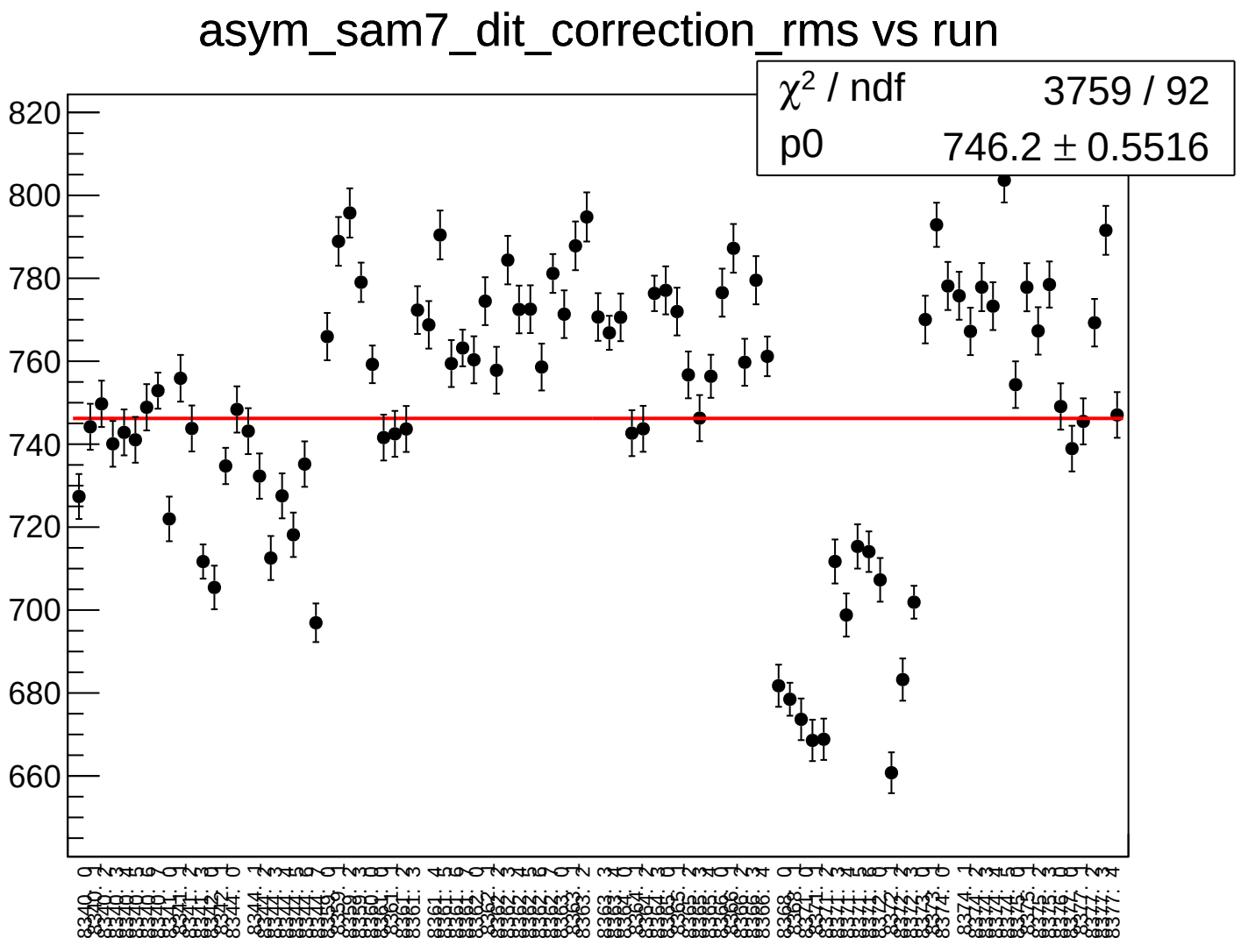

dit_asym_sam7_mean vs run
χ² / ndf 76.12 / 92
p0 70.38 ± 84.74
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1035
Std Dev 0
2
1
0
−1
−2

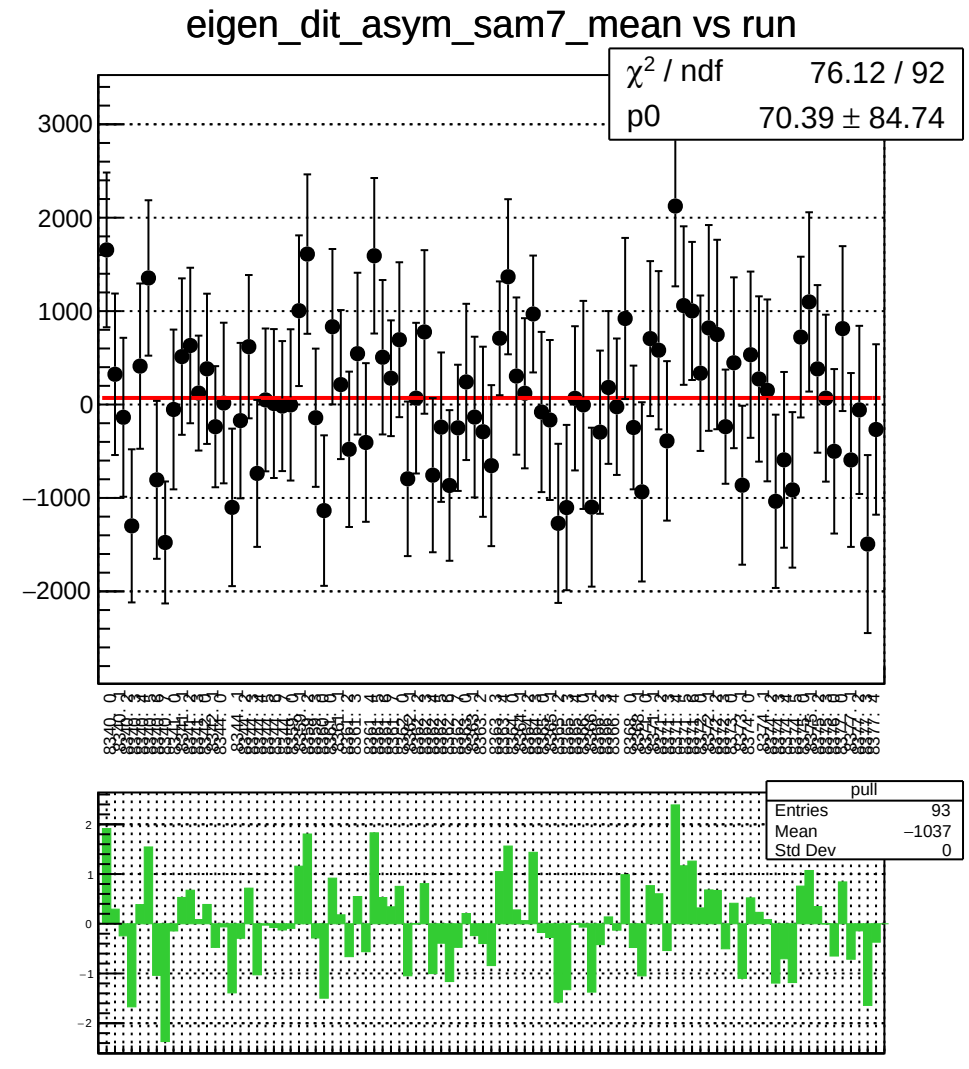

pull1D
Entries 93
Mean 0.0003064
Std Dev 0.9047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

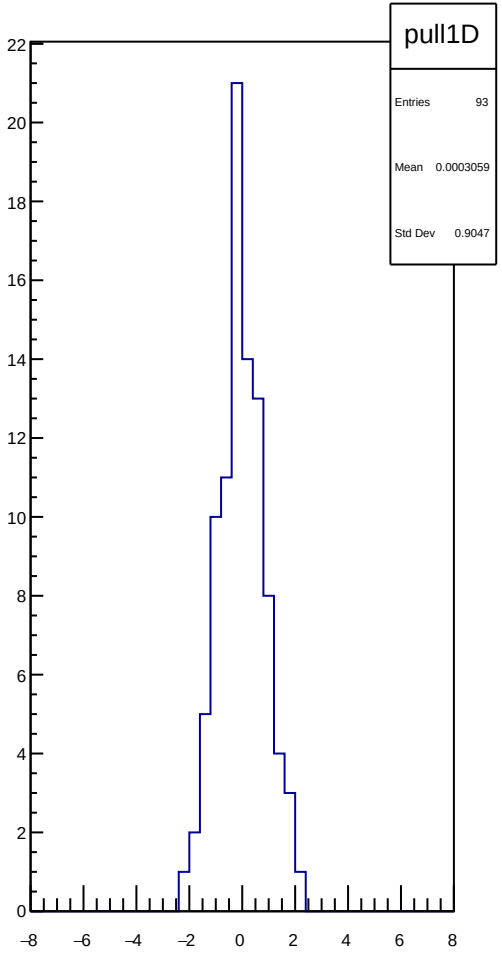

dit_asym_sam7_rms vs run
χ^2 / ndf 7757 / 92
p0 80.96 ± 0.05992
105
100
95
90
85
80
75
70

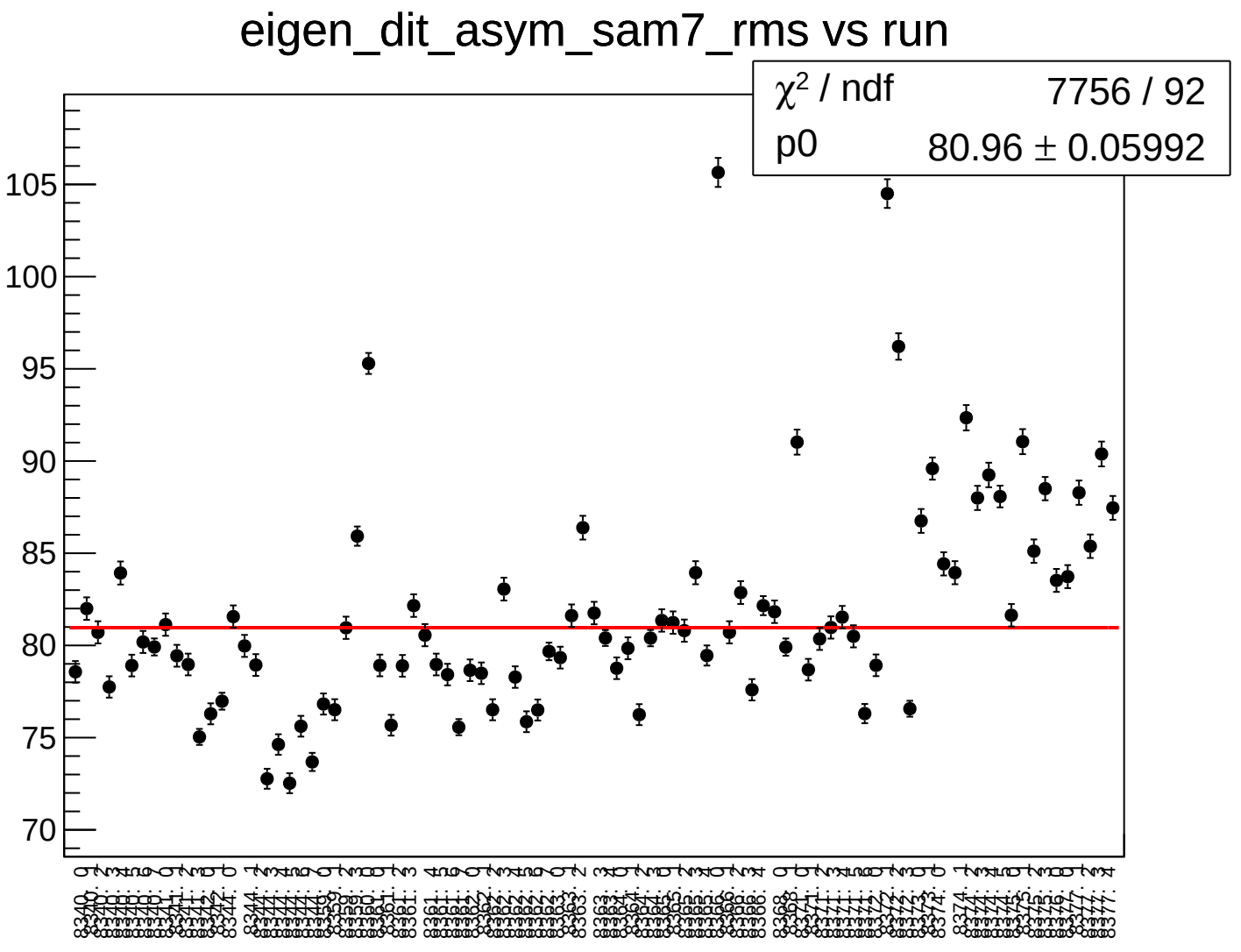

asym_sam7_dit_correction_mean vs run
χ² / ndf 111.7 / 92
p0 −849.4 ± 780.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −169.5
Std Dev 0
2
1
0
−1
−2

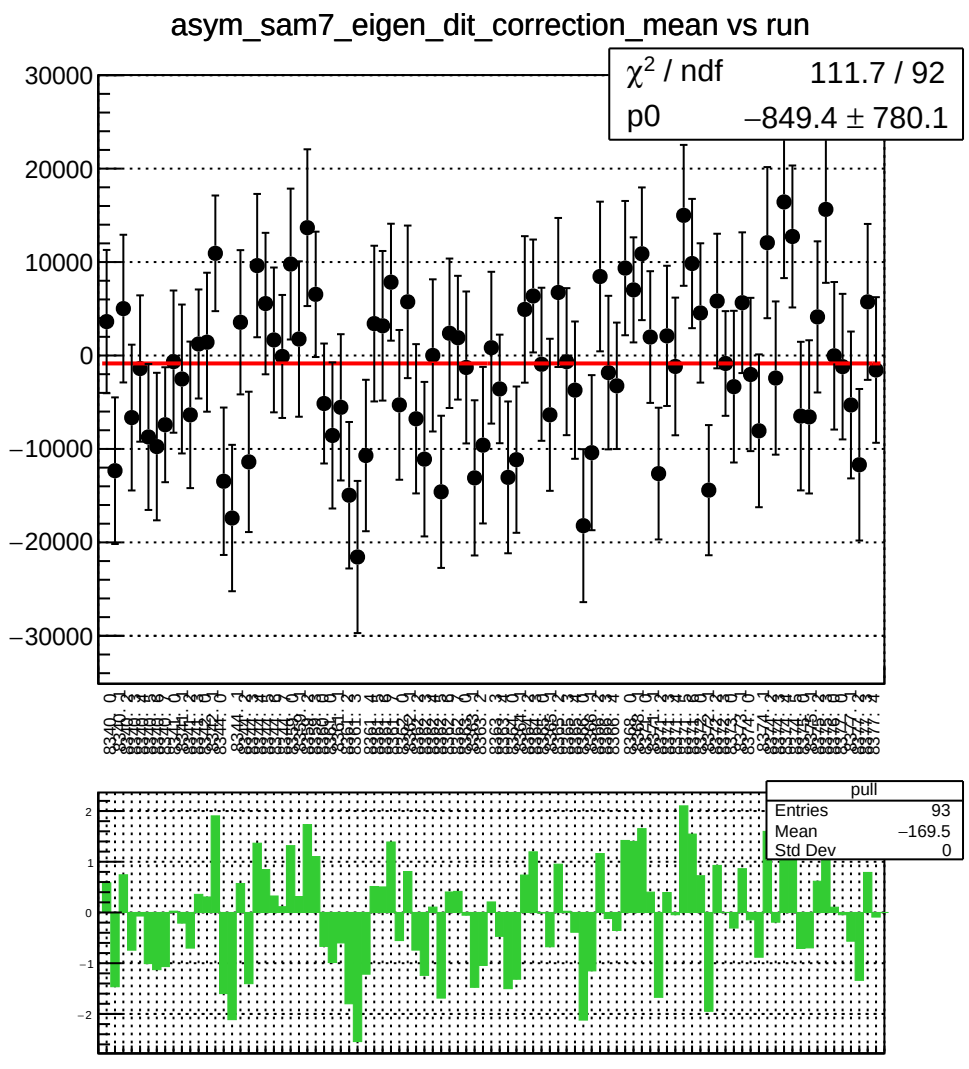

pull1D
Entries 93
Mean −0.02449
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

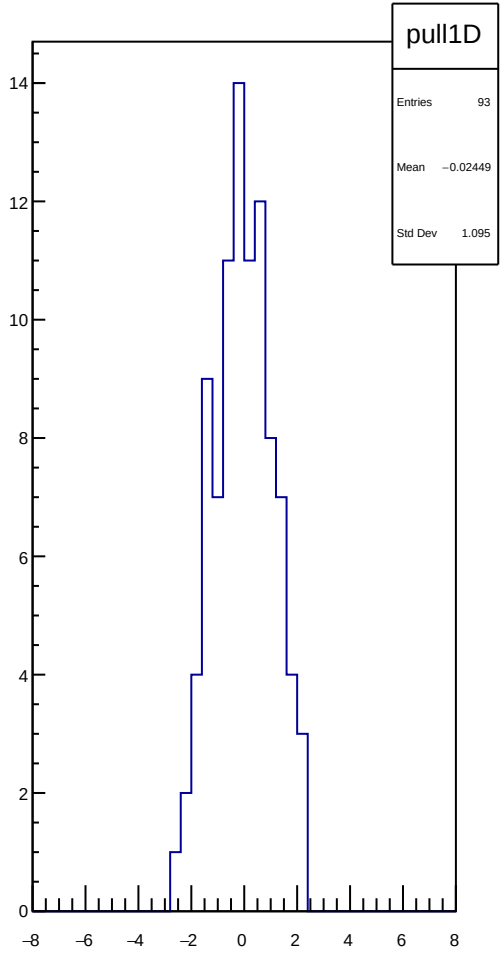

asym_sam7_dit_correction_rms vs run
χ² / ndf 3759 / 92
p0 746.2 ± 0.5516
820
800
780
760
740
720
700
680
660

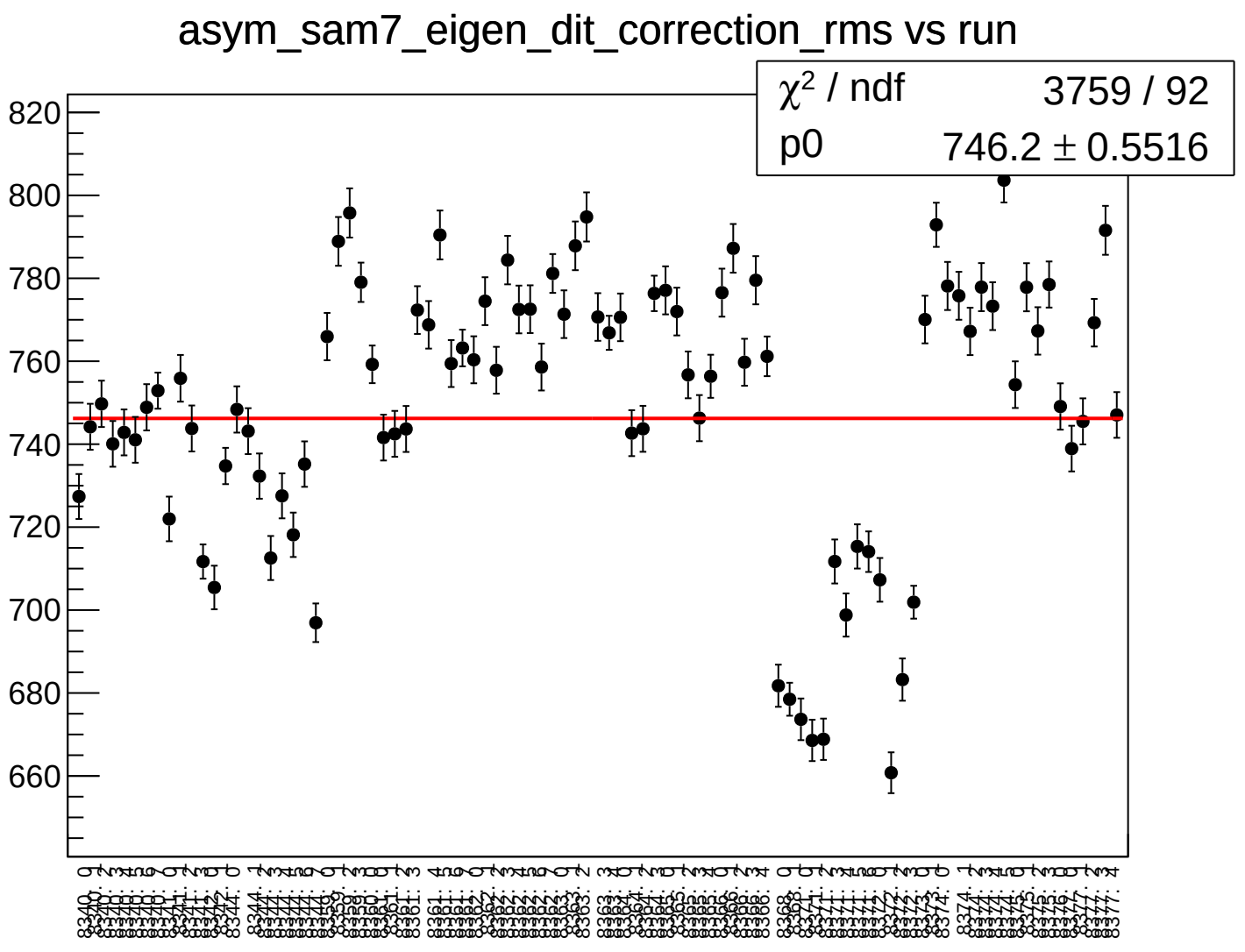

eigen_dit_asym_sam7_mean vs run
χ² / ndf 76.12 / 92
p0 70.39 ± 84.74
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −1037
Std Dev 0
2
1
0
−1
−2

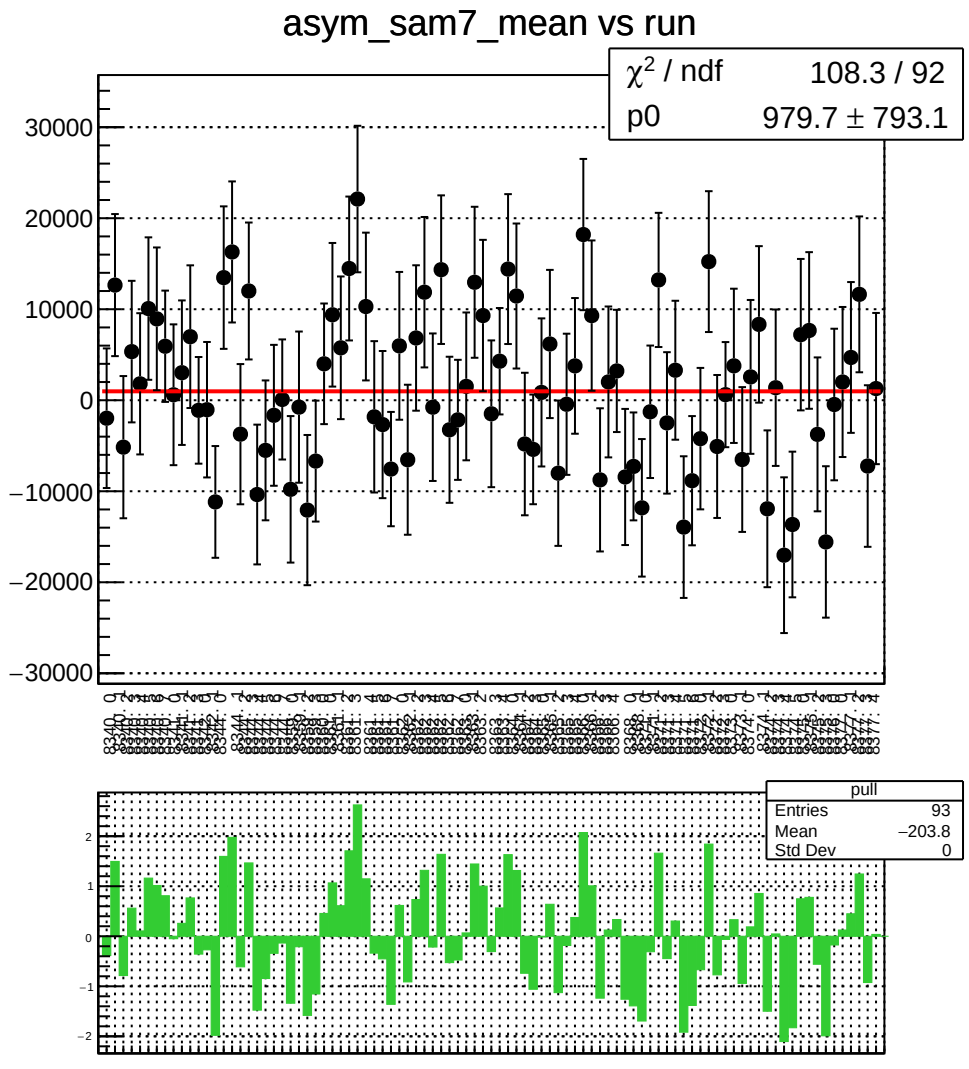

pull1D
Entries 93
Mean 0.0003059
Std Dev 0.9047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

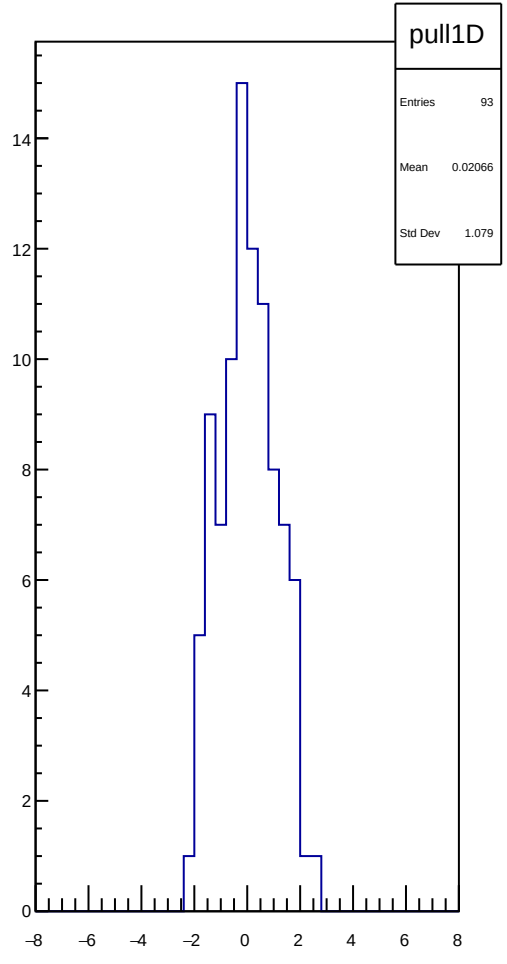

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 7756 / 92
p0 80.96 ± 0.05992
105
100
95
90
85
80
75
70

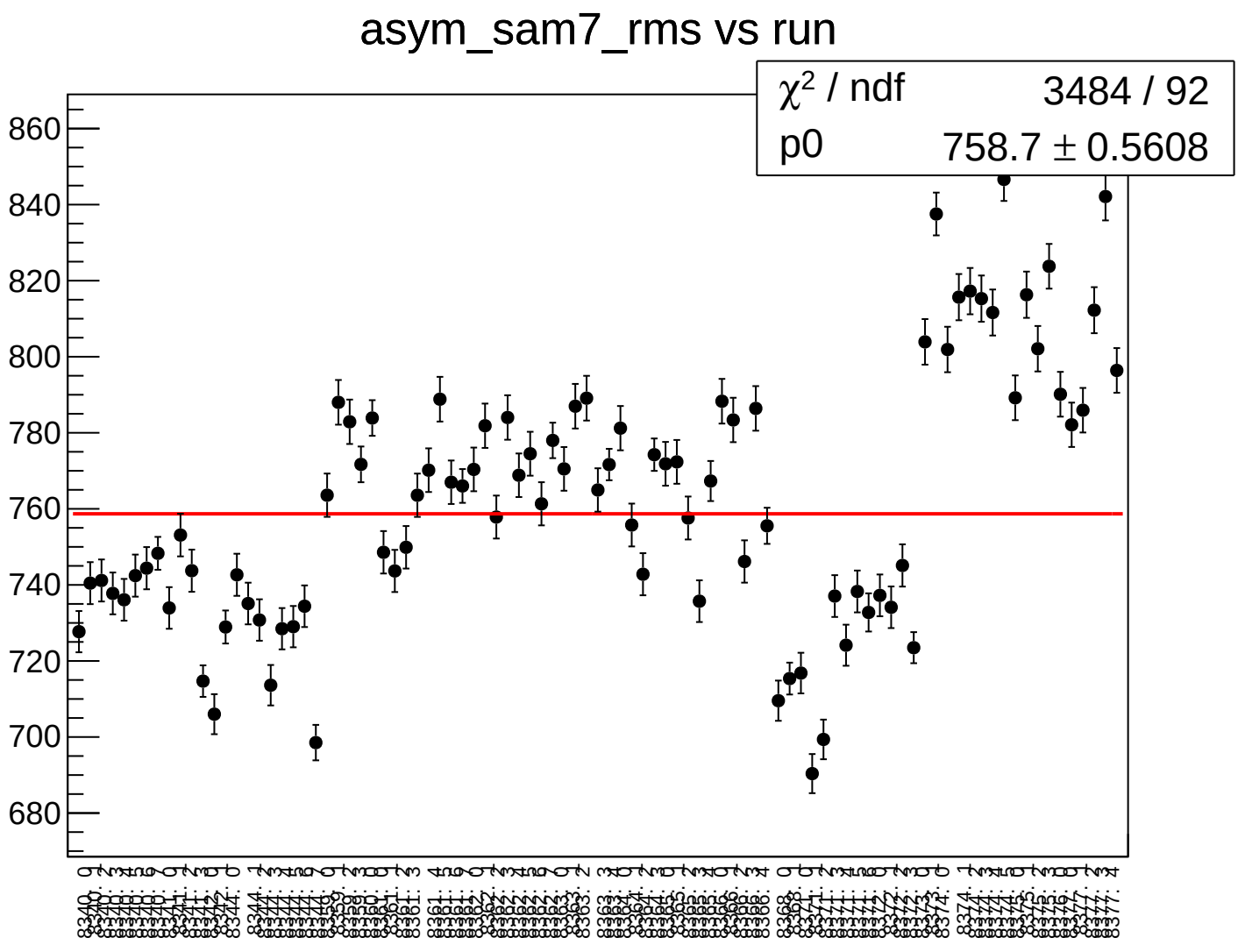

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 111.7 / 92
p0 −849.4 ± 780.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −169.5
Std Dev 0
2
1
0
−1
−2

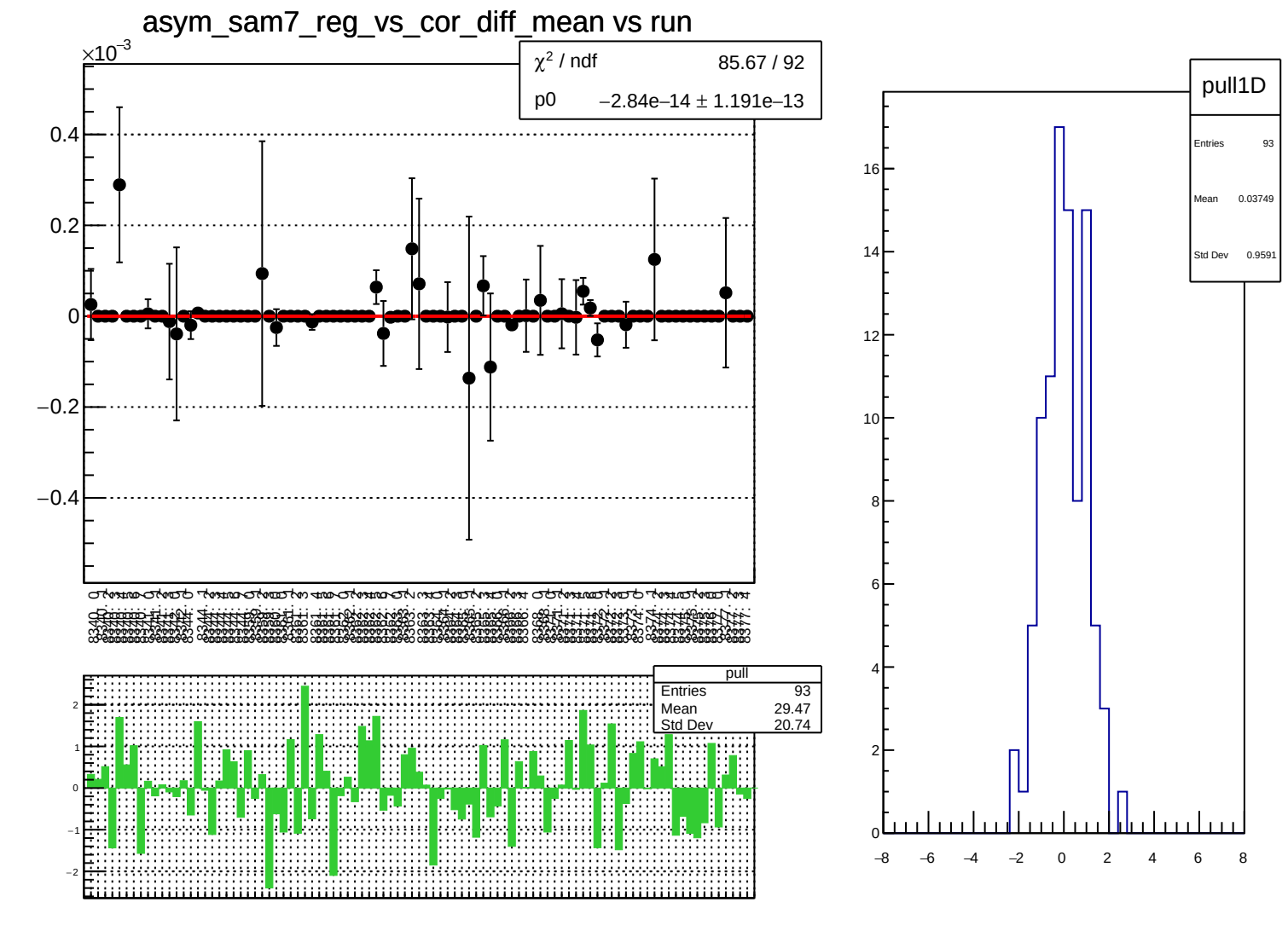

pull1D
Entries 93
Mean −0.02449
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

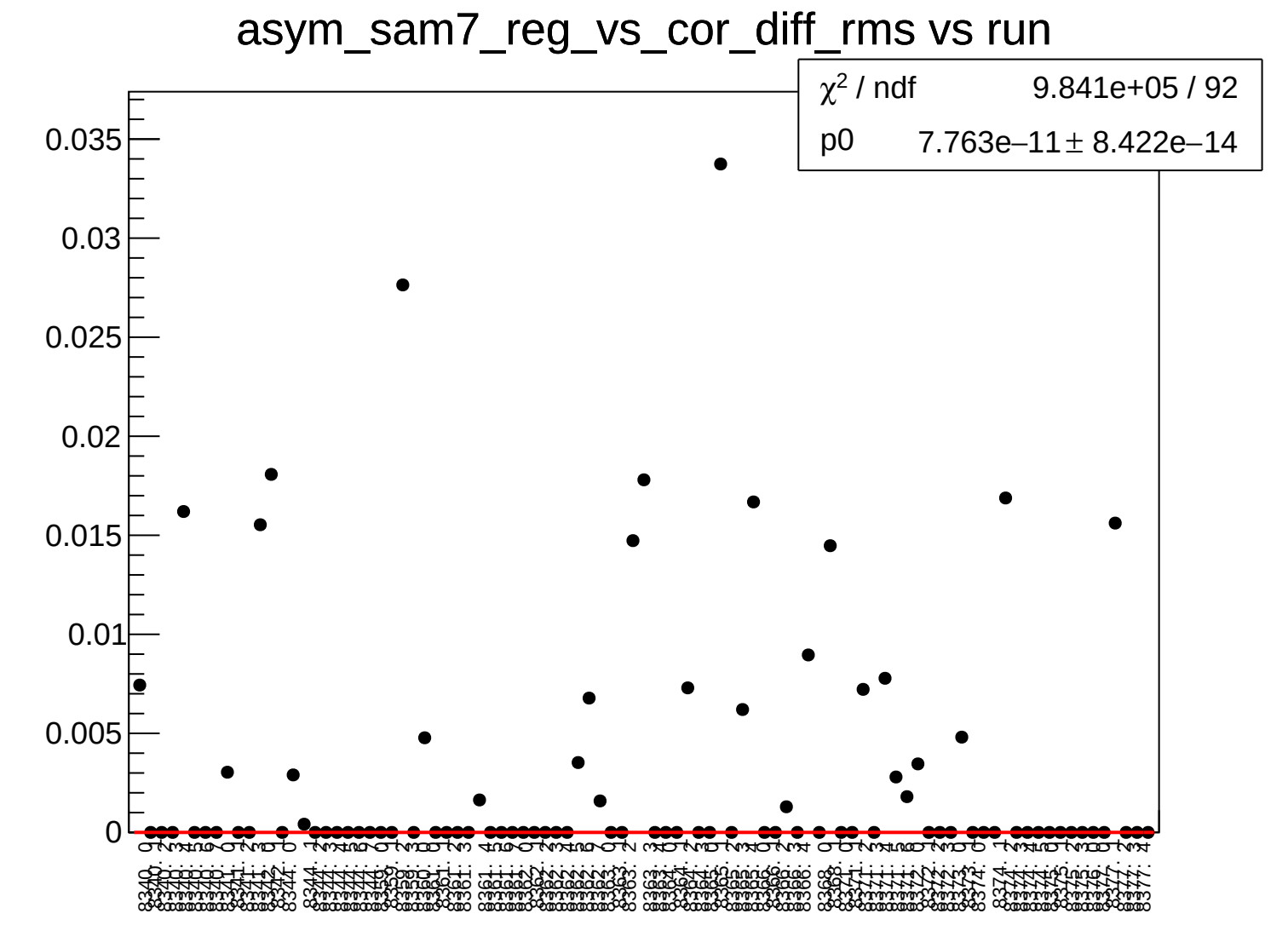

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3759 / 92
p0 746.2 ± 0.5516
820
800
780
760
740
720
700
680
660

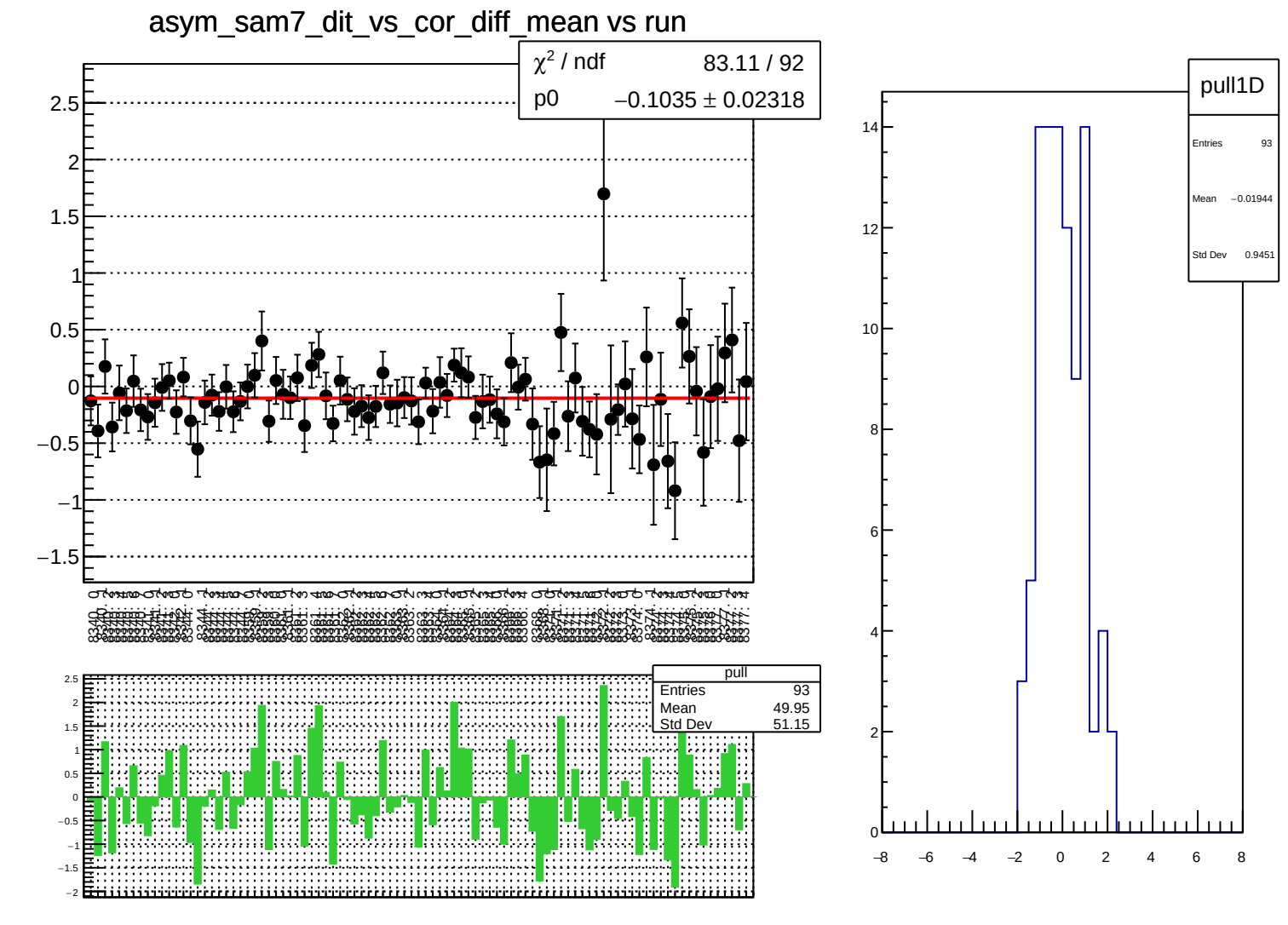

asym_sam7_mean vs run
χ² / ndf 108.3 / 92
p0 979.7 ± 793.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −203.8
Std Dev 0
2
1
0
−1
−2

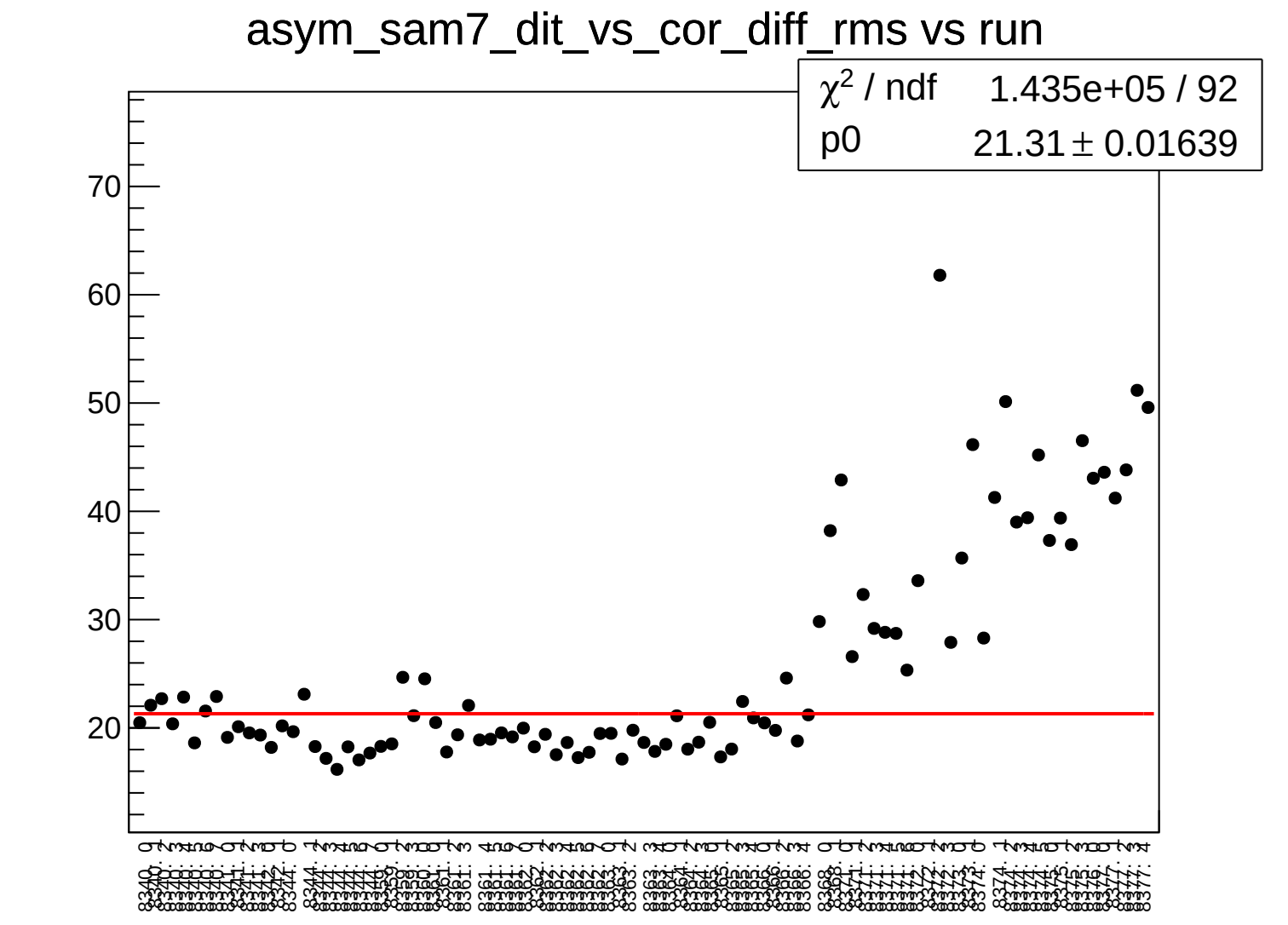

pull1D
Entries 93
Mean 0.02066
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

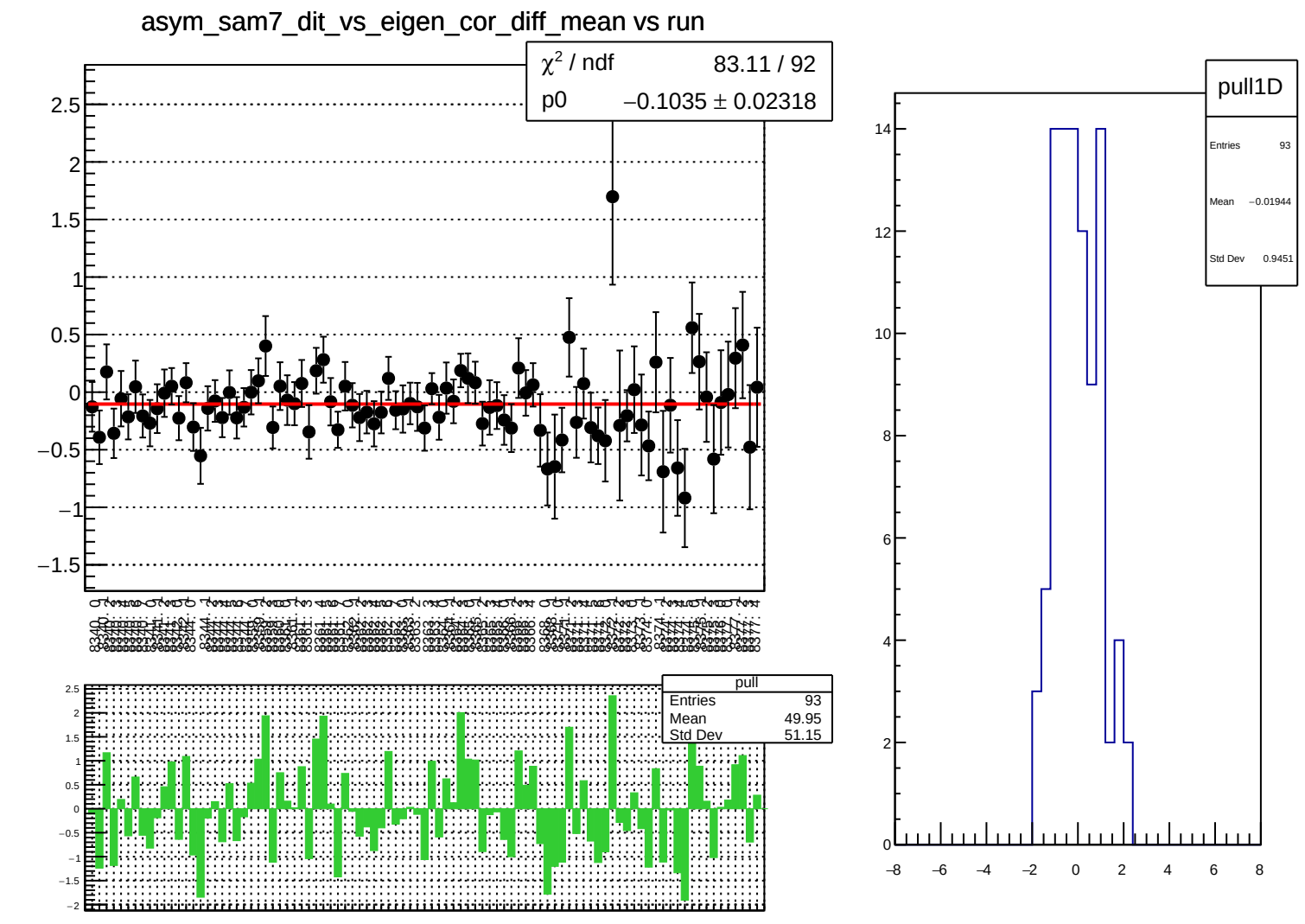

asym_sam7_rms vs run
χ² / ndf 3484 / 92
p0 758.7 ± 0.5608
860
840
820
800
780
760
740
720
700
680

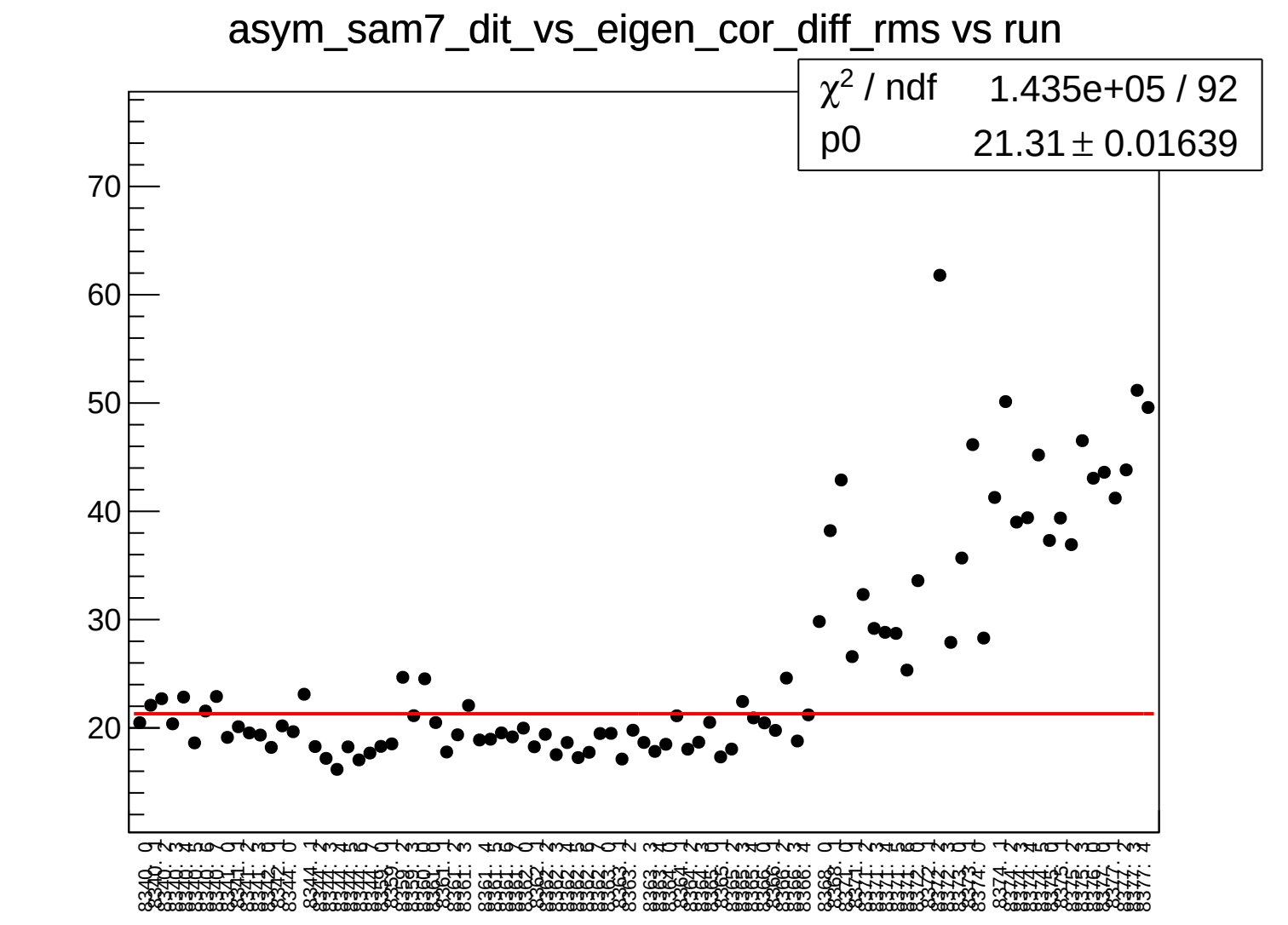

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.67 / 92
p0 −2.84e−14 ± 1.191e−13
0.4
0.2
0
−0.2
−0.4
pull
Entries 93
Mean 29.47
Std Dev 20.74
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.03749
Std Dev 0.9591
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

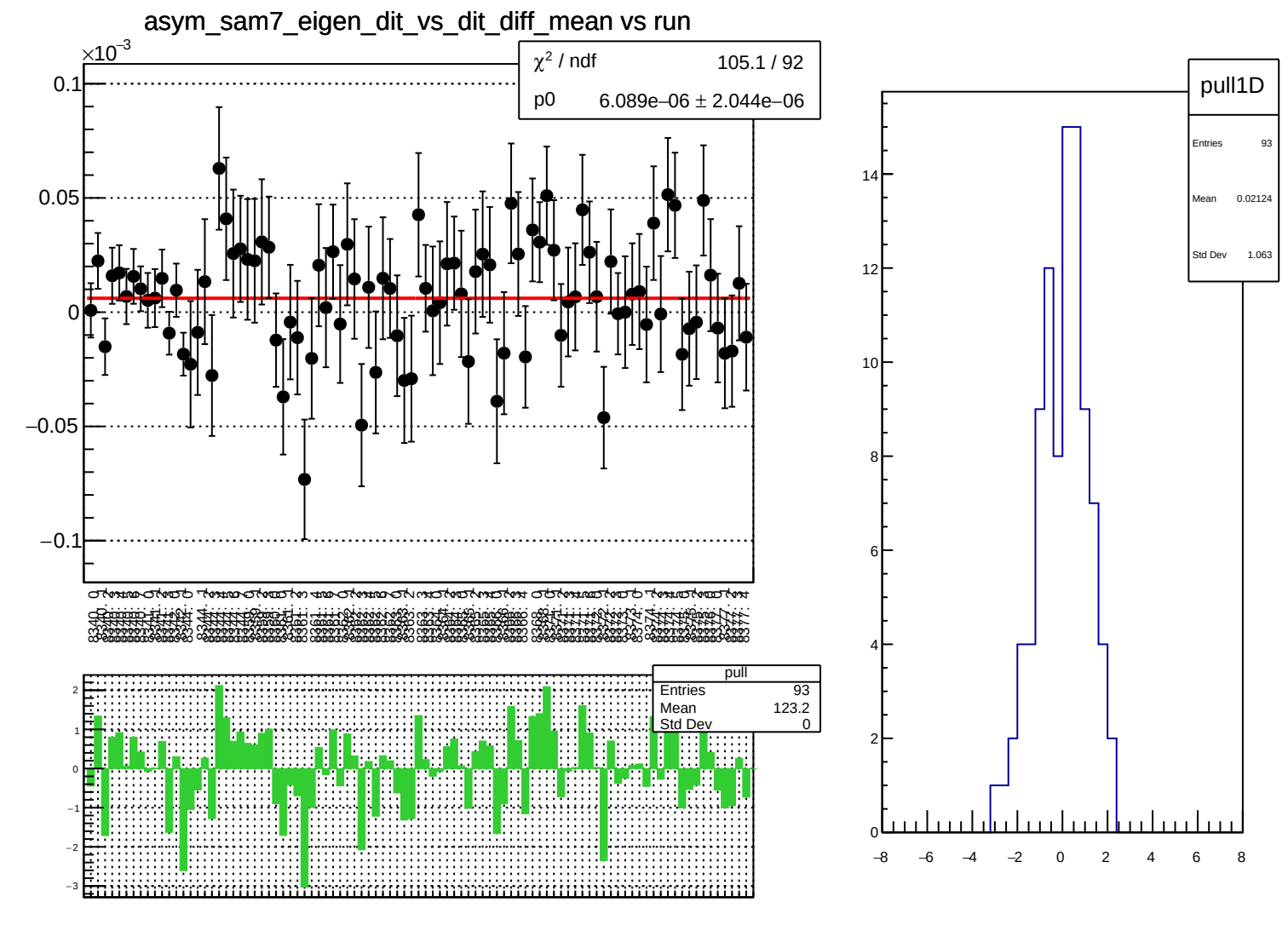

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 9.841e+05 / 92
p0 7.763e−11 ± 8.422e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

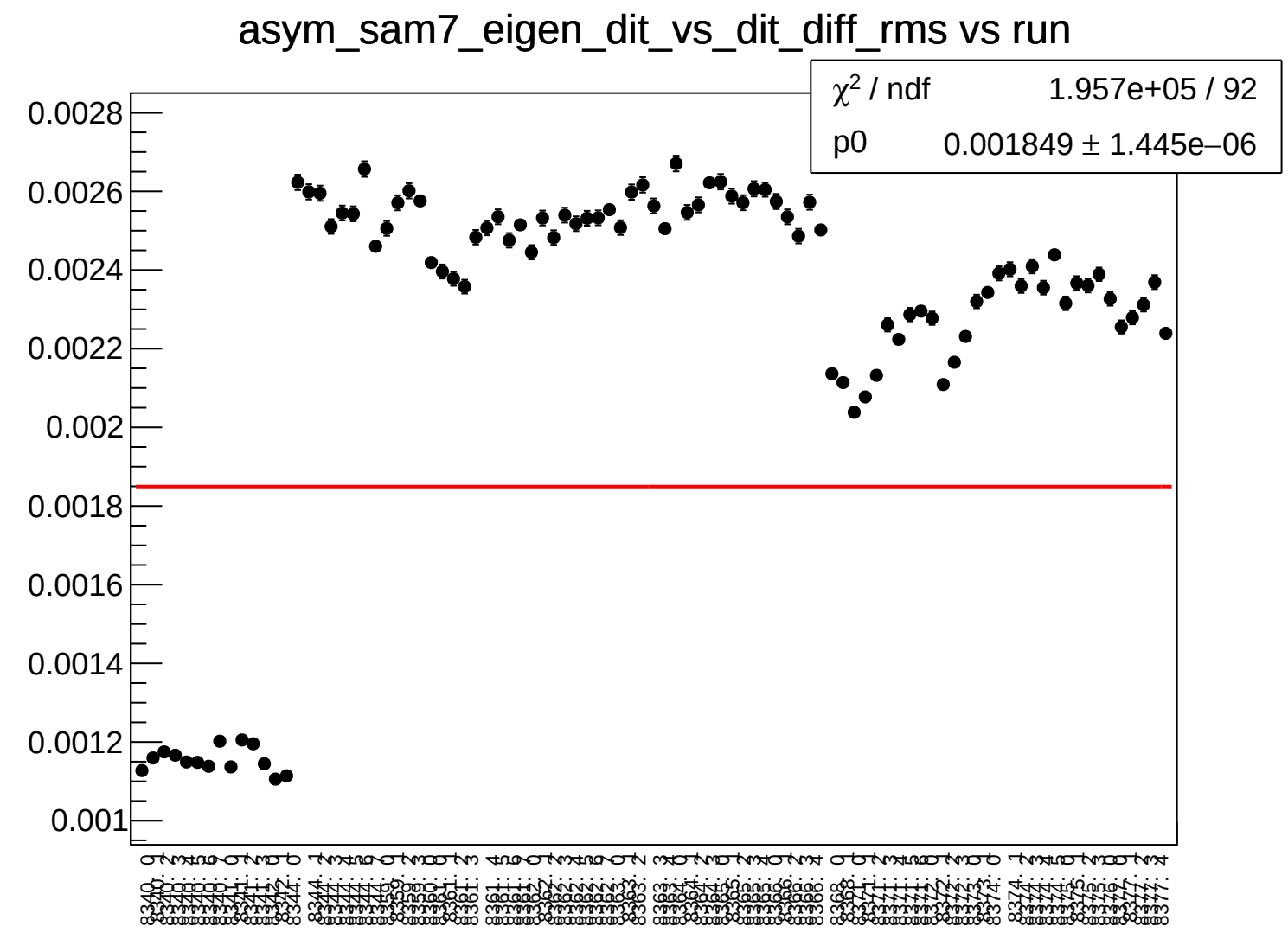

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 92
p0 −0.1035 ± 0.02318
pull
Entries 93
Mean 49.95
Std Dev 51.15
pull1D
Entries 93
Mean −0.01944
Std Dev 0.9451

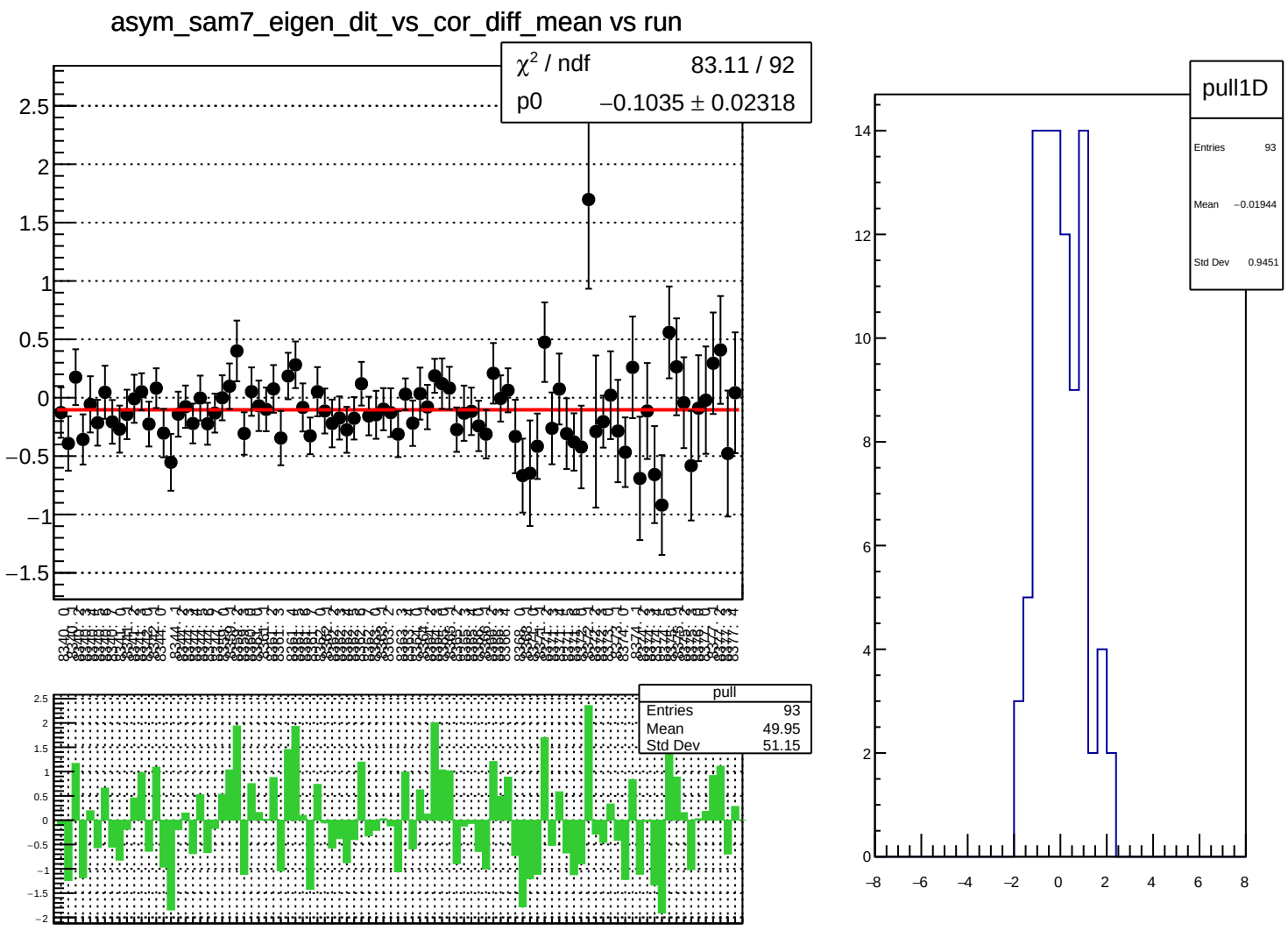

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.435e+05 / 92
p0 21.31 ± 0.01639
70
60
50
40
30
20

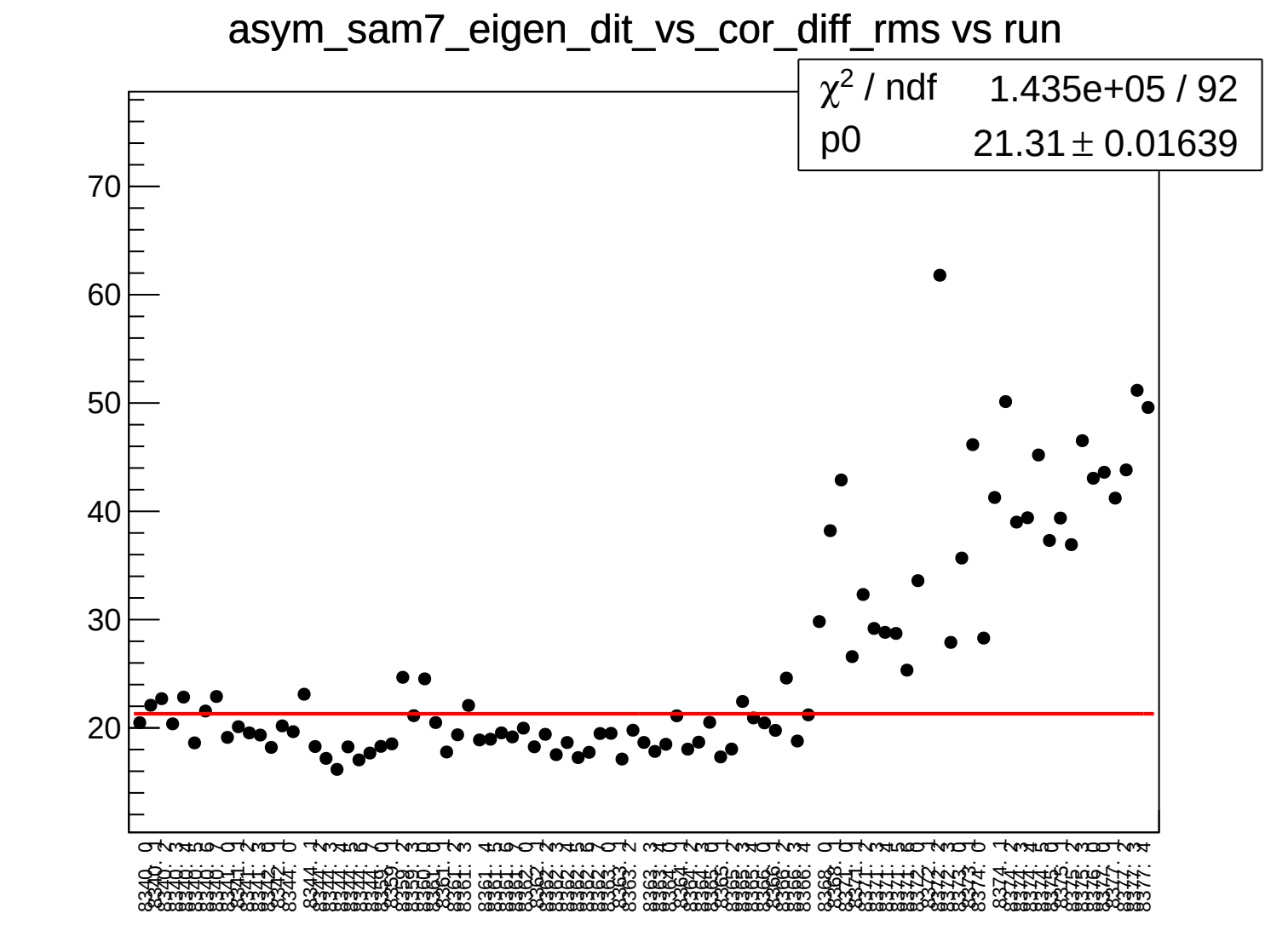

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.11 / 92
p0 −0.1035 ± 0.02318
pull
Entries 93
Mean 49.95
Std Dev 51.15
pull1D
Entries 93
Mean −0.01944
Std Dev 0.9451

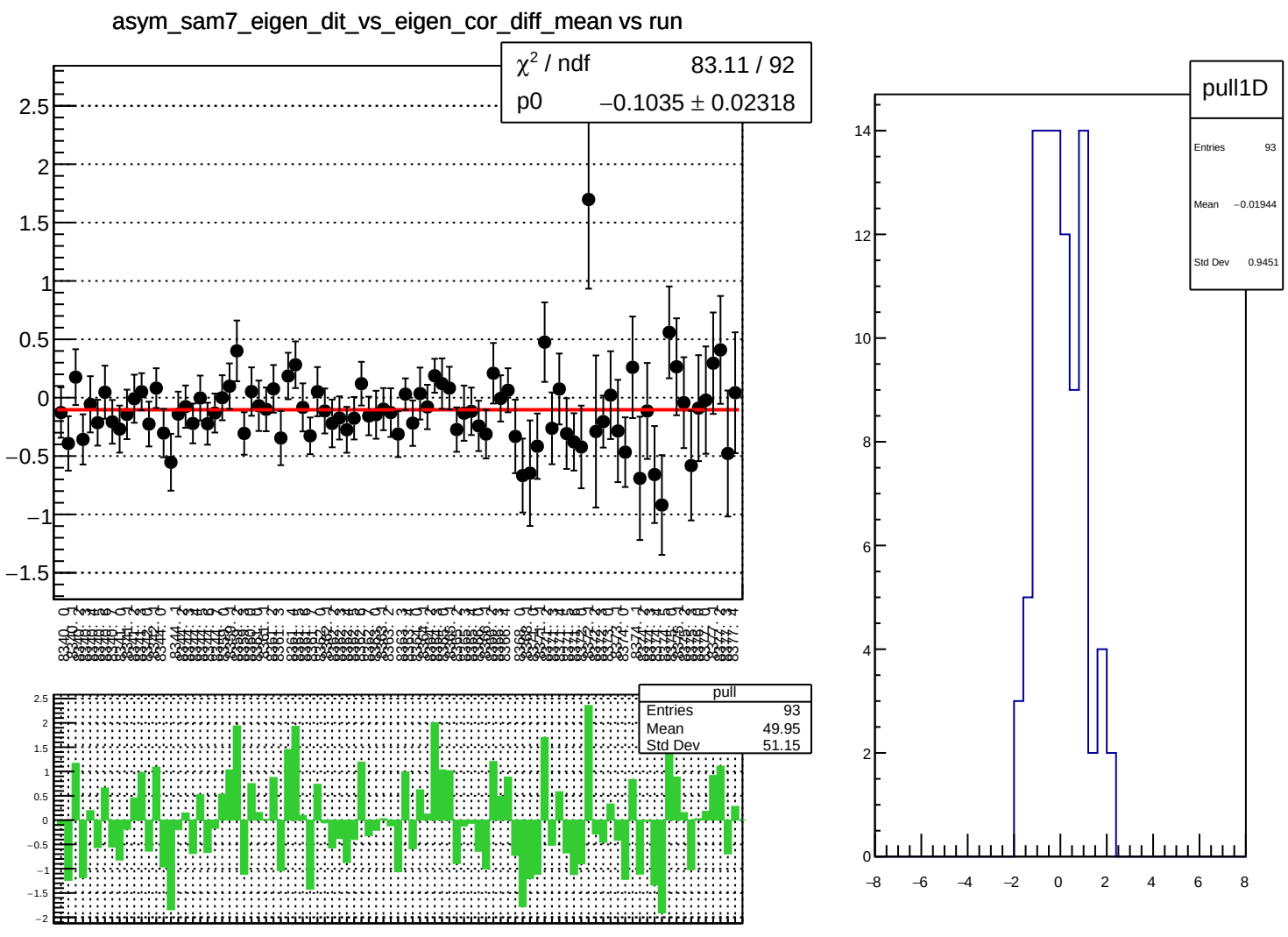

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.435e+05 / 92
p0 21.31 ± 0.01639
70
60
50
40
30
20

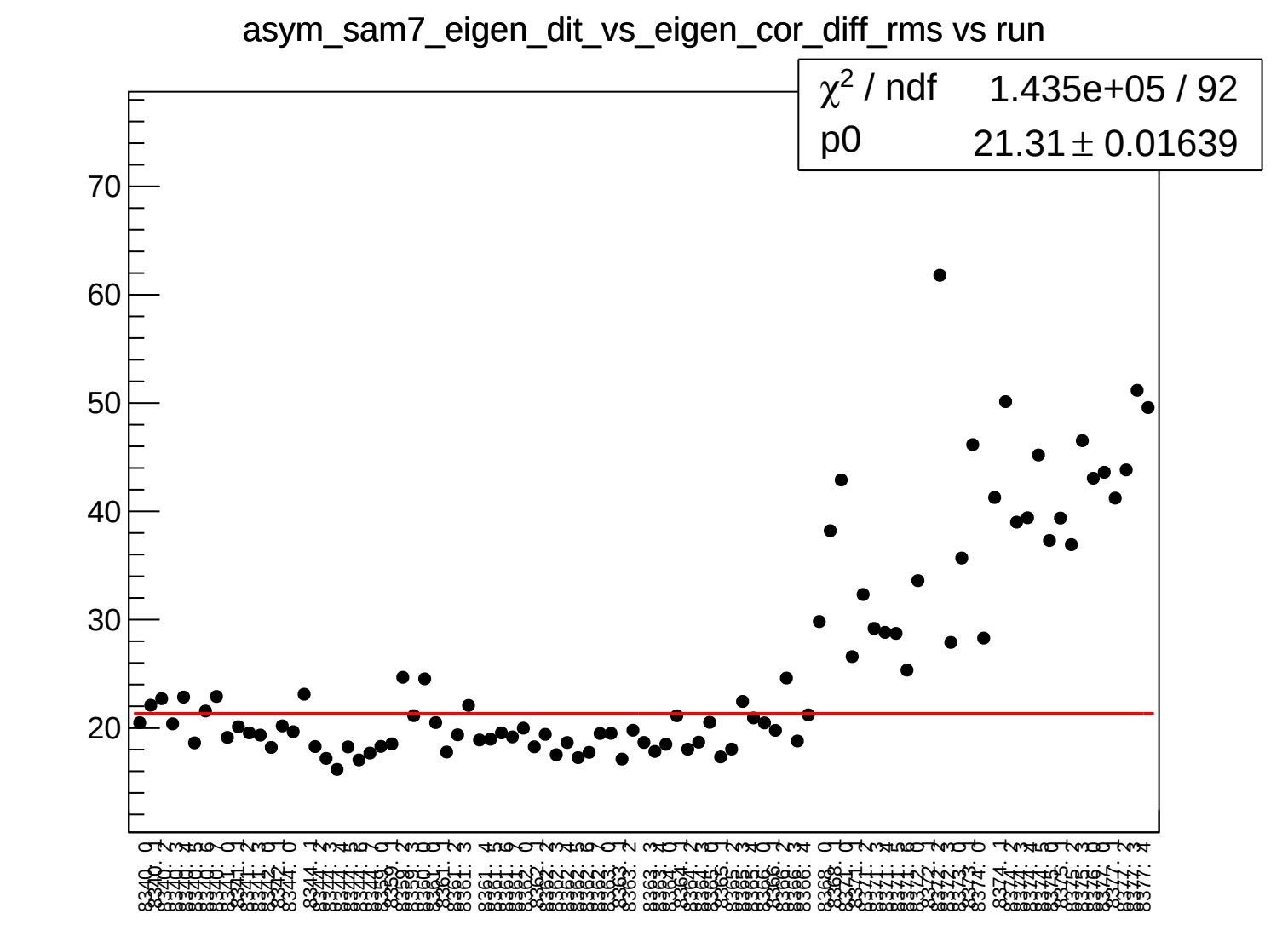

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.1 / 92
p0 6.089e−06 ± 2.044e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 123.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.02124
Std Dev 1.063
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

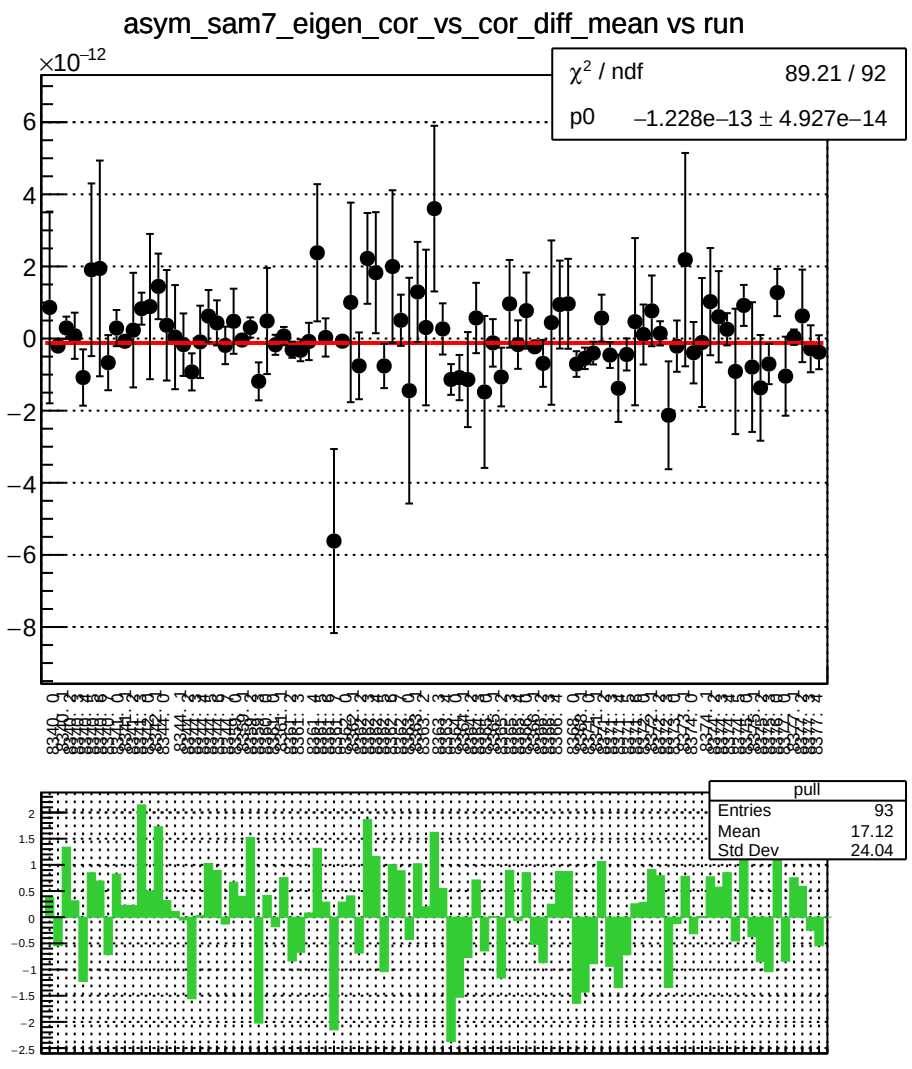

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.957e+05 / 92
p0 0.001849 ± 1.445e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

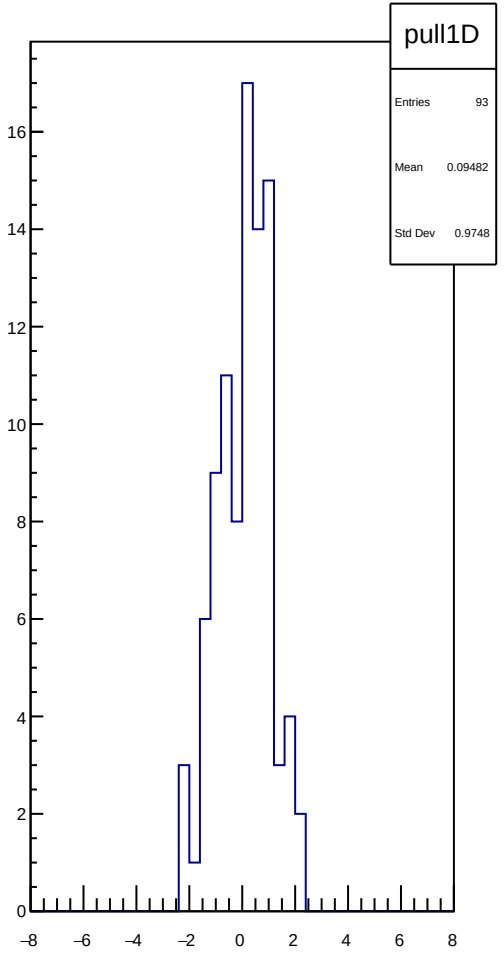

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 92
p0 −0.1035 ± 0.02318
pull
Entries 93
Mean 49.95
Std Dev 51.15
pull1D
Entries 93
Mean −0.01944
Std Dev 0.9451

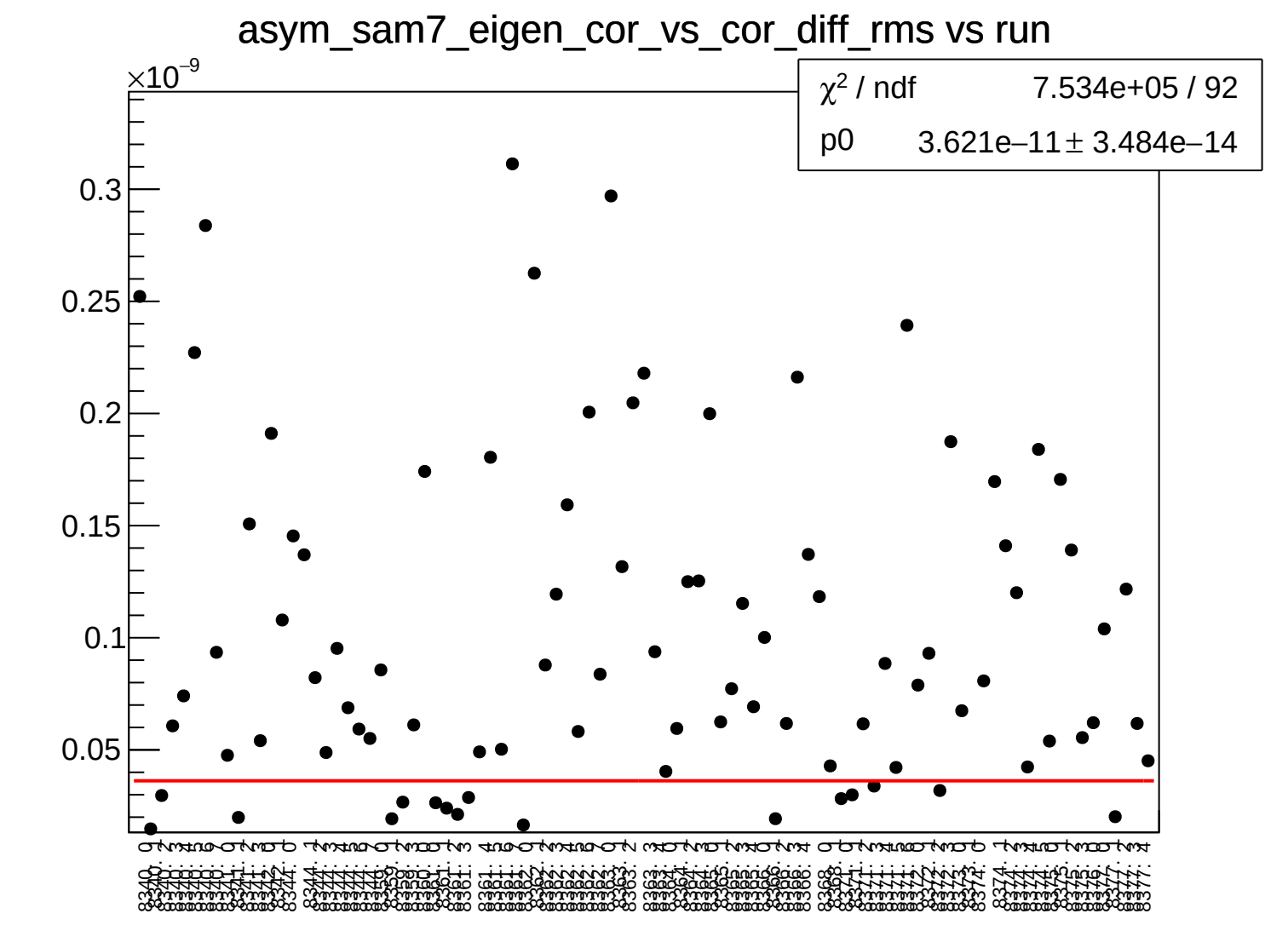

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.435e+05 / 92
p0 21.31 ± 0.01639
70
60
50
40
30
20

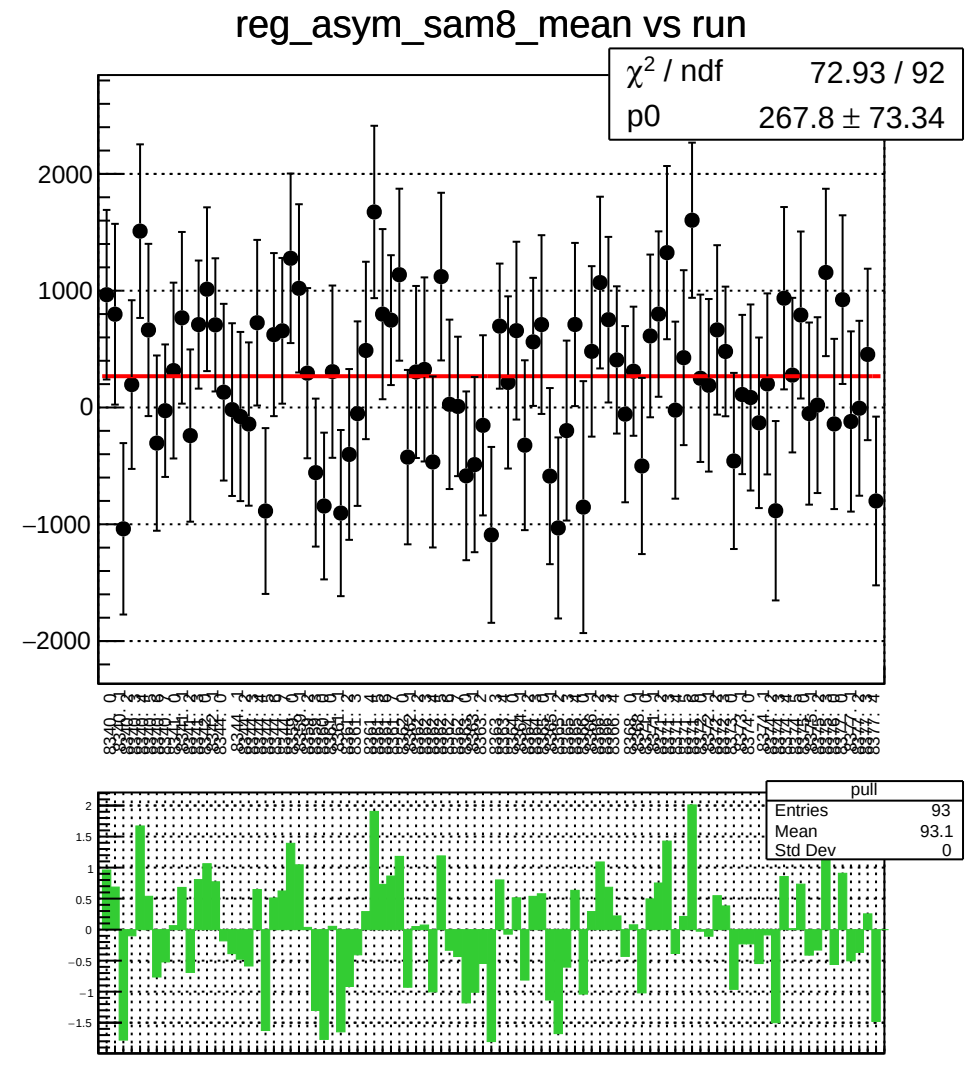

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.11 / 92
p0 −0.1035 ± 0.02318
pull
Entries 93
Mean 49.95
Std Dev 51.15
pull1D
Entries 93
Mean −0.01944
Std Dev 0.9451

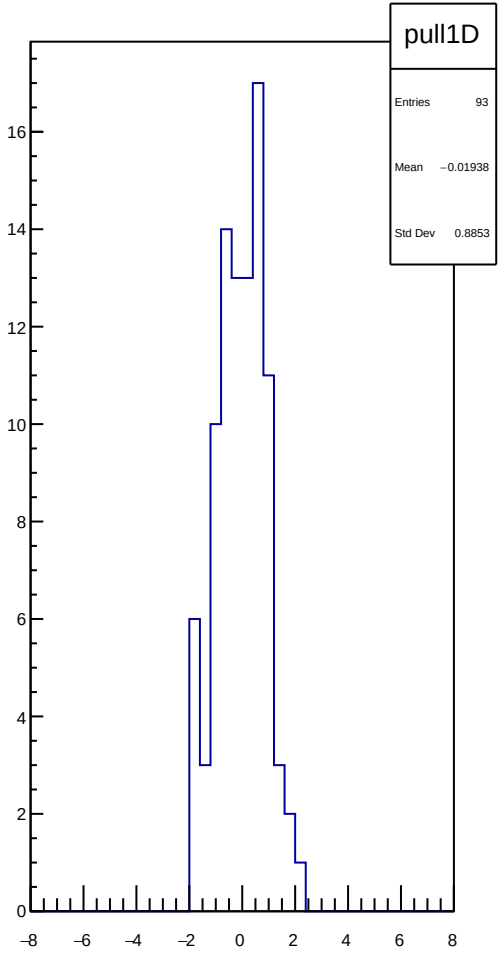

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+05 / 92
p0 21.31 ± 0.01639
70
60
50
40
30
20

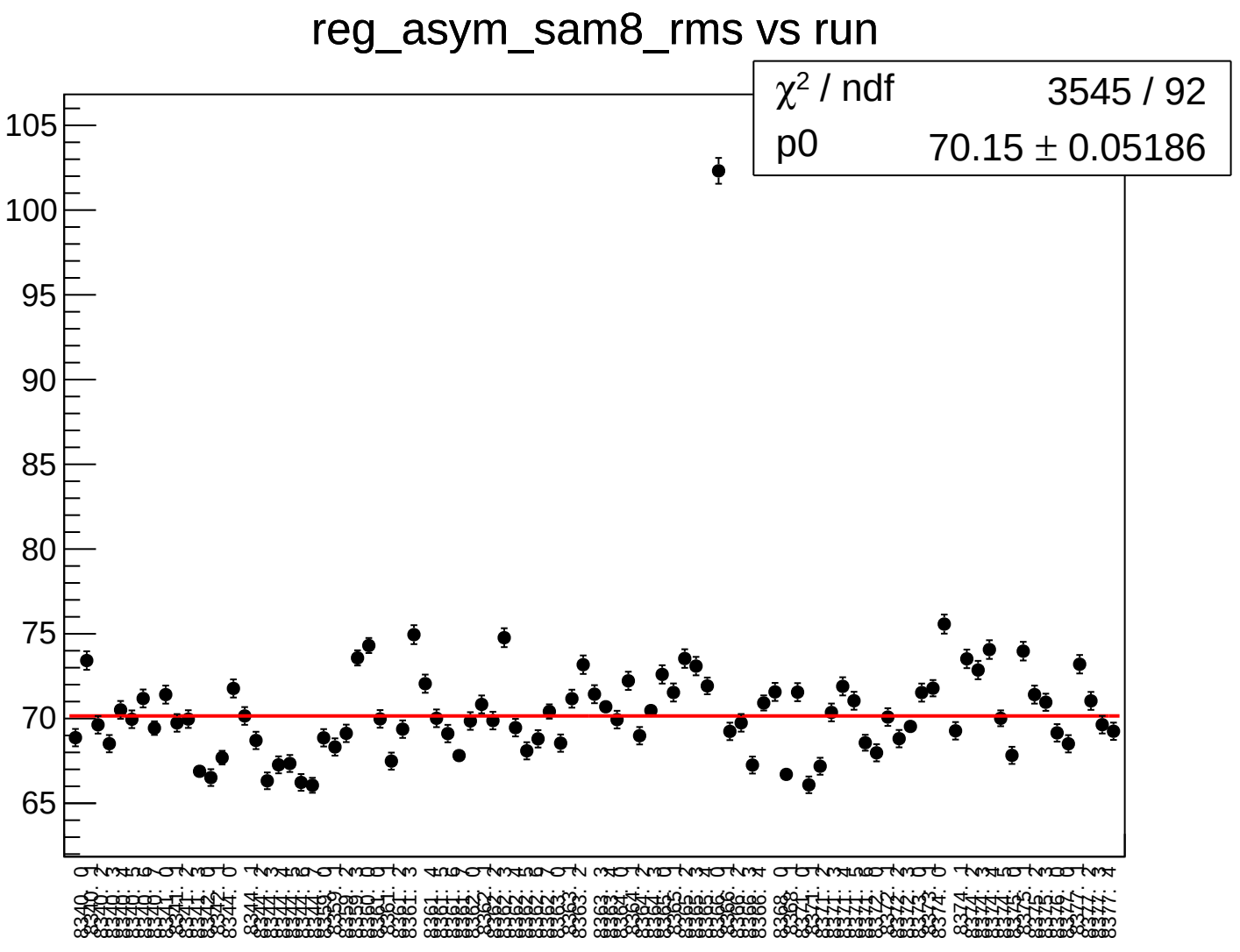

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.21 / 92
p0 −1.228e−13 ± 4.927e−14
pull
Entries 93
Mean 17.12
Std Dev 24.04

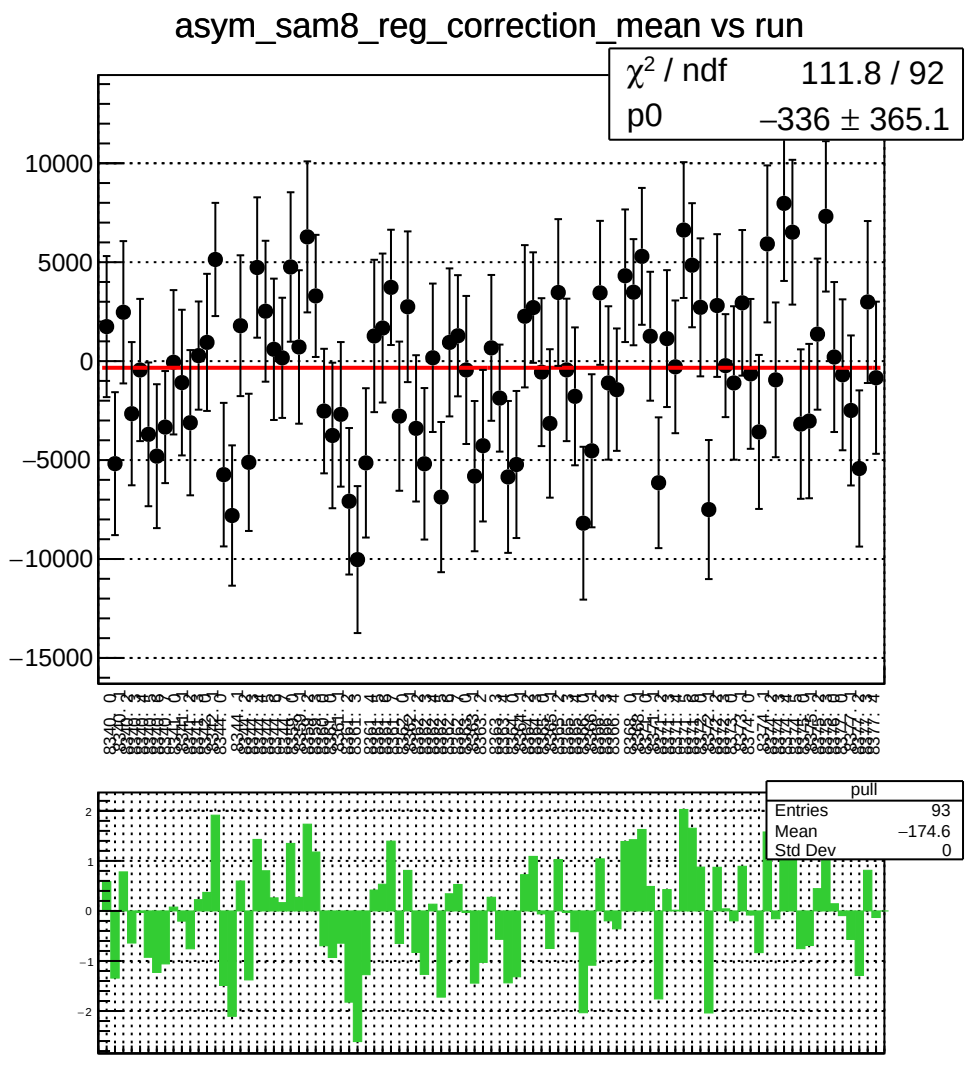

pull1D
Entries 93
Mean 0.09482
Std Dev 0.9748

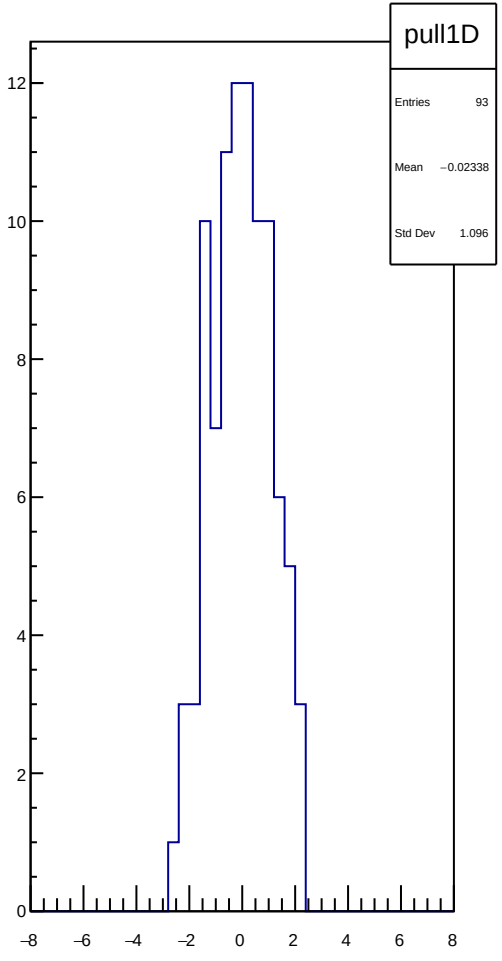

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.534e+05 / 92
p0 3.621e−11 ± 3.484e−14
0.3
0.25
0.2
0.15
0.1
0.05

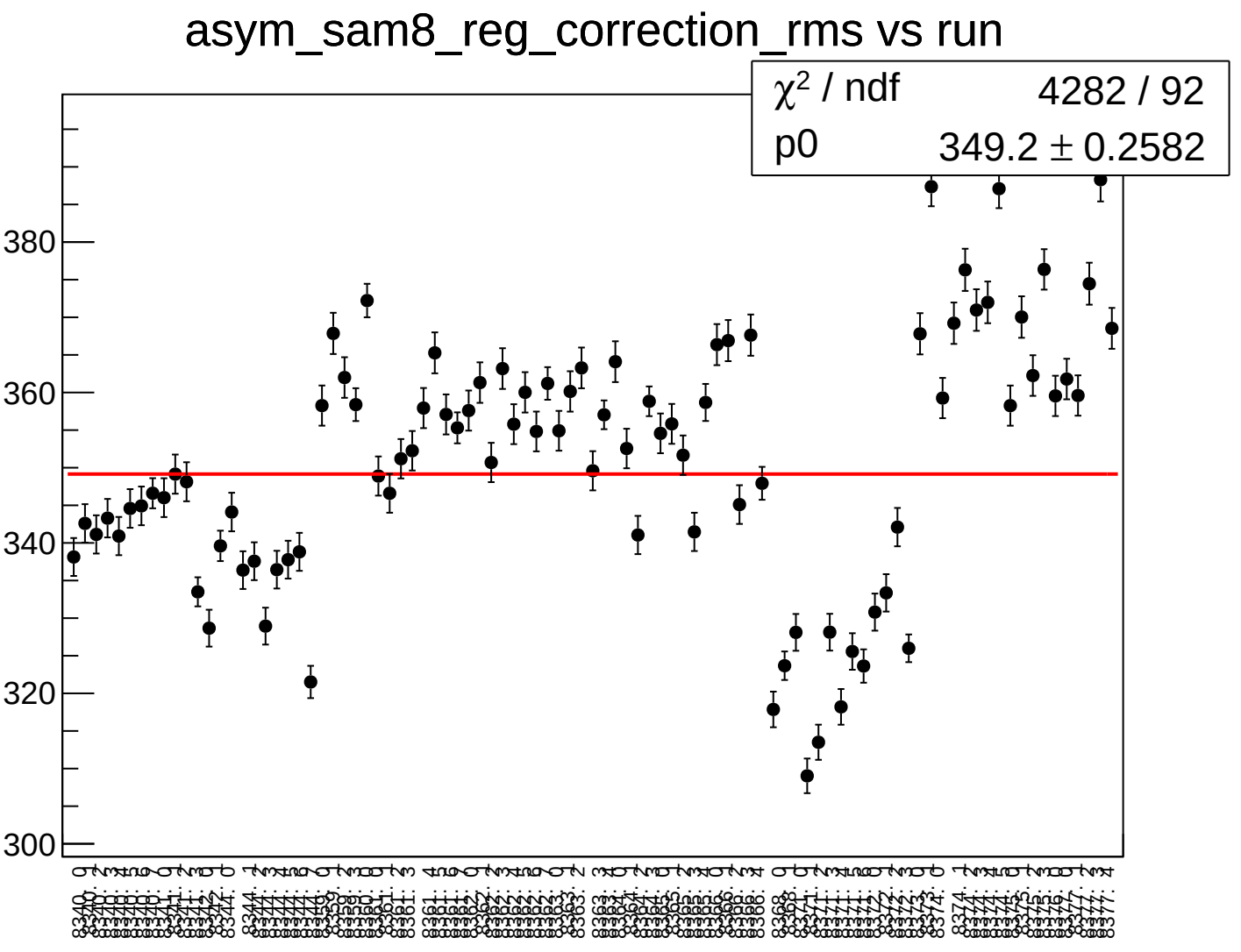

reg_asym_sam8_mean vs run
χ² / ndf 72.93 / 92
p0 267.8 ± 73.34
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 93.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

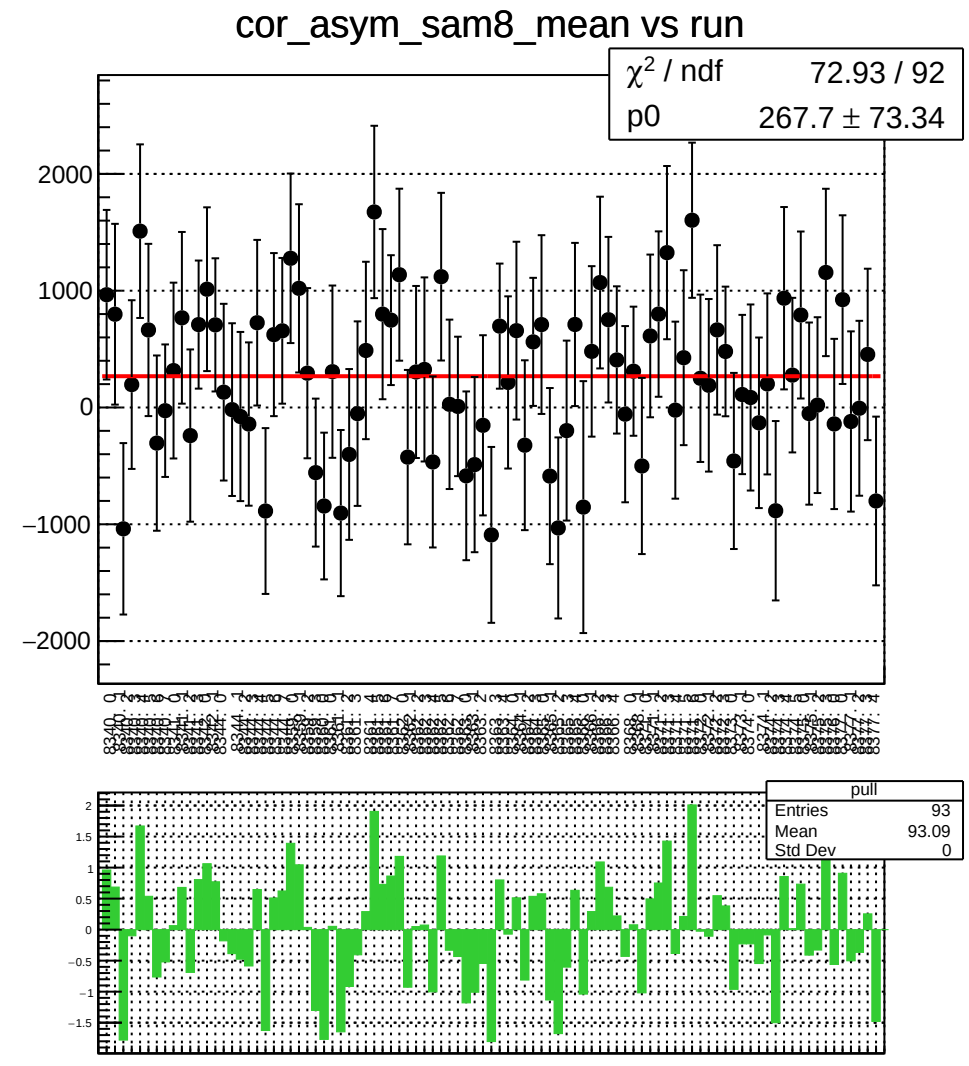

pull1D
Entries 93
Mean −0.01938
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

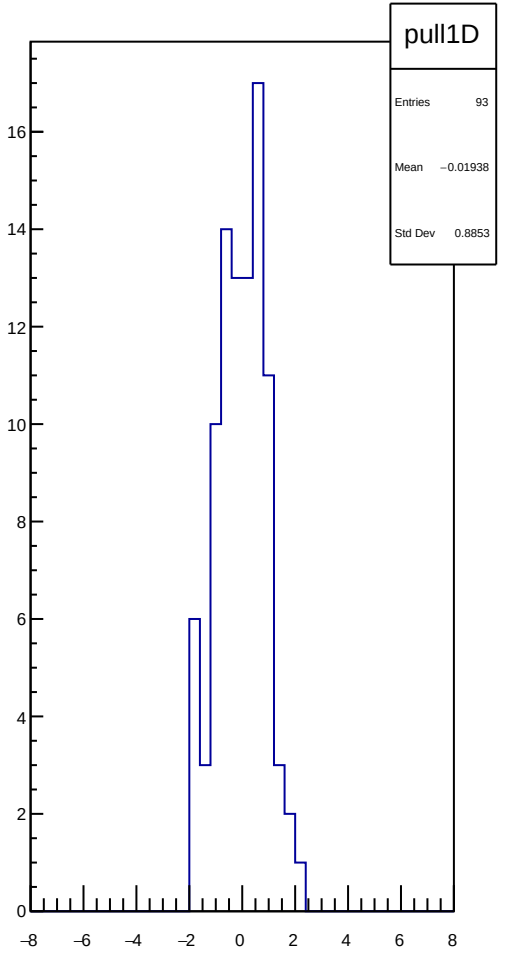

reg_asym_sam8_rms vs run
χ^2 / ndf 3545 / 92
p0 70.15 ± 0.05186
105
100
95
90
85
80
75
70
65


asym_sam8_reg_correction_mean vs run
χ² / ndf 111.8 / 92
p0 −336 ± 365.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −174.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.02338
Std Dev 1.096
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 4282 / 92
p0 349.2 ± 0.2582
380
360
340
320
300


cor_asym_sam8_mean vs run
χ² / ndf 72.93 / 92
p0 267.7 ± 73.34
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 93.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 93
Mean −0.01938
Std Dev 0.8853
16
14
12
10
8
6
4
2
0
−8
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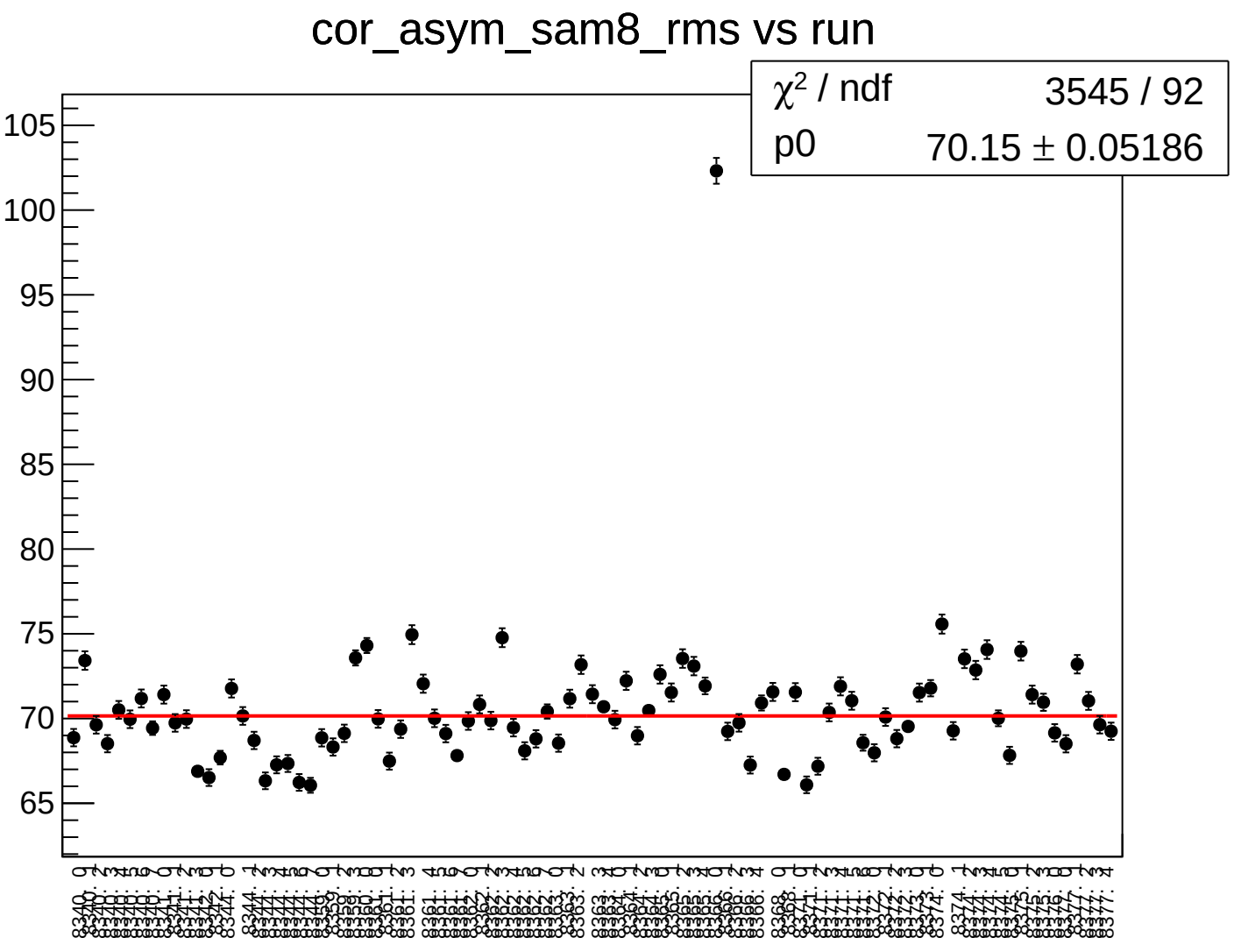
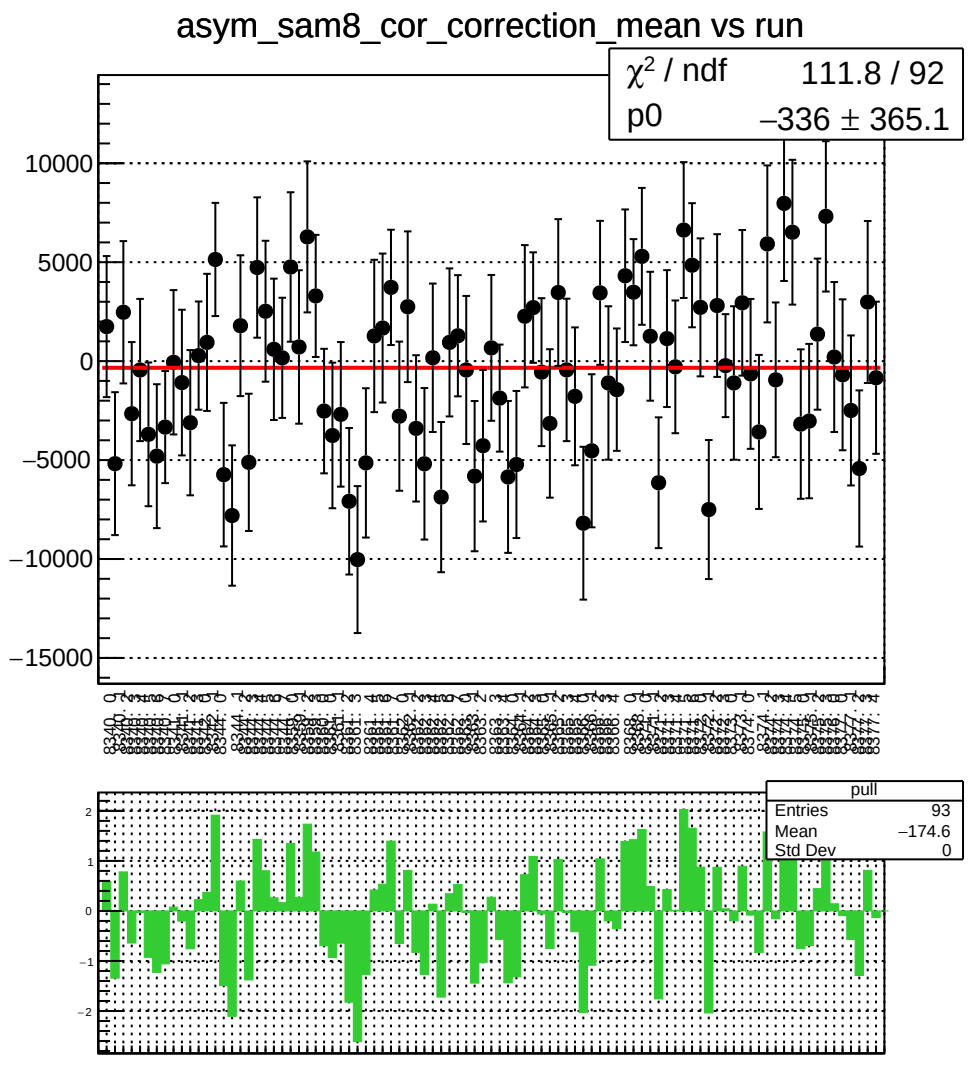
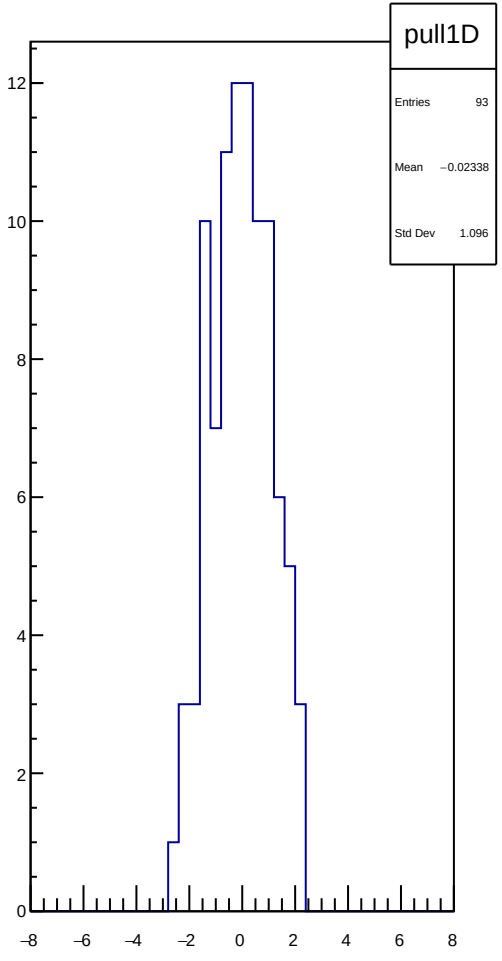
2
4
6
8


cor_asym_sam8_rms vs run
χ² / ndf 3545 / 92
p0 70.15 ± 0.05186
105
100
95
90
85
80
75
70
65


asym_sam8_cor_correction_mean vs run
χ² / ndf 111.8 / 92
p0 −336 ± 365.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −174.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.02338
Std Dev 1.096
12
10
8
6
4
2
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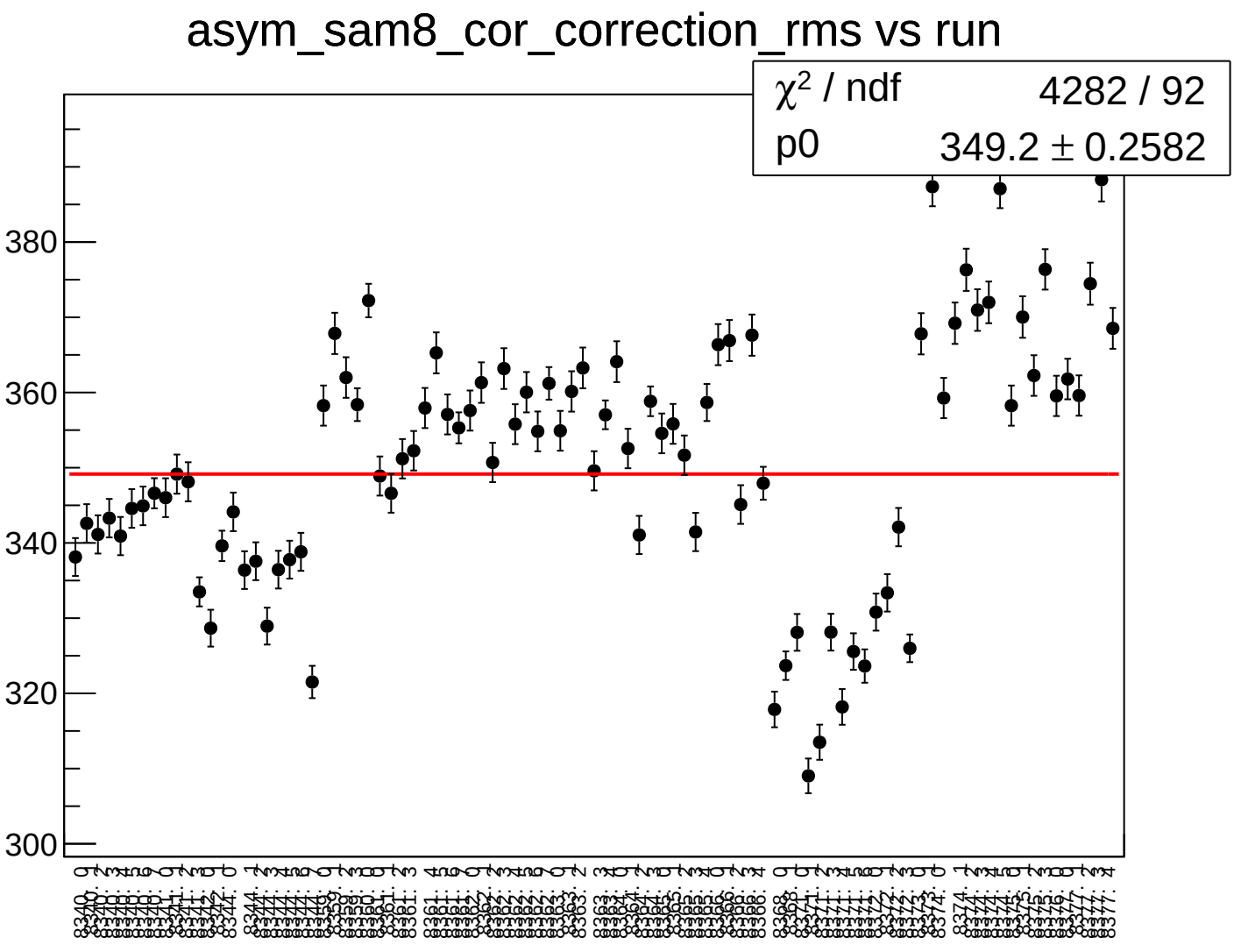
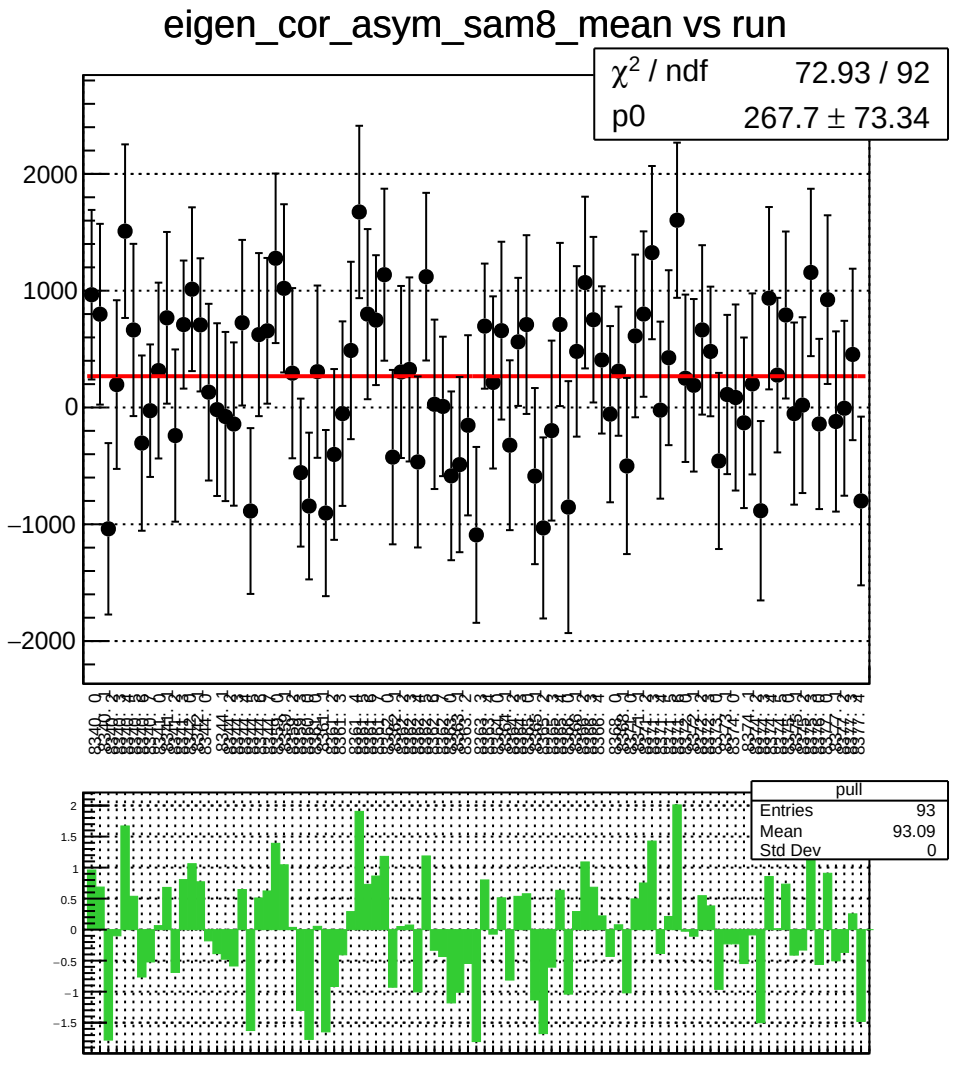
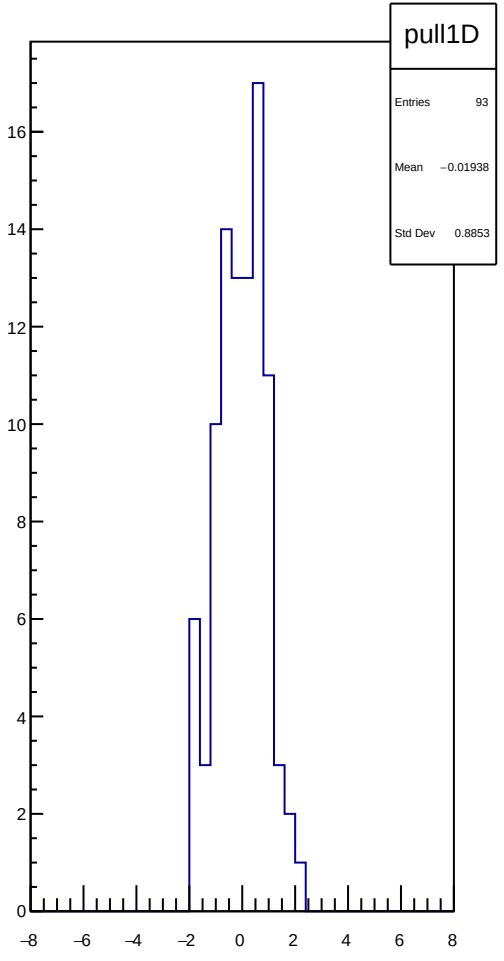
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_cor_correction_rms vs run
χ² / ndf 4282 / 92
p0 349.2 ± 0.2582
380
360
340
320
300


eigen_cor_asym_sam8_mean vs run
χ² / ndf 72.93 / 92
p0 267.7 ± 73.34
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 93.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 93
Mean −0.01938
Std Dev 0.8853
16
14
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10
8
6
4
2
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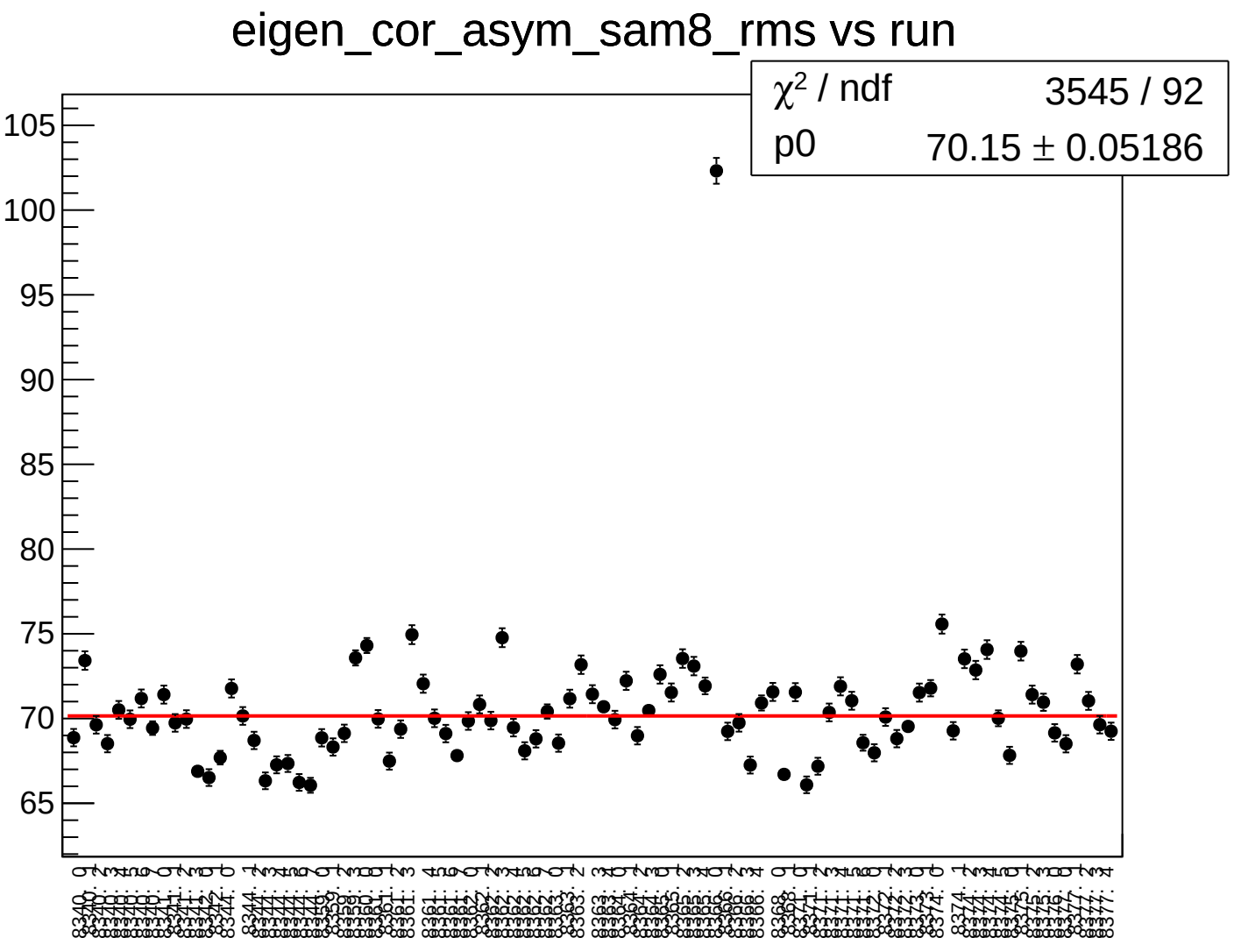
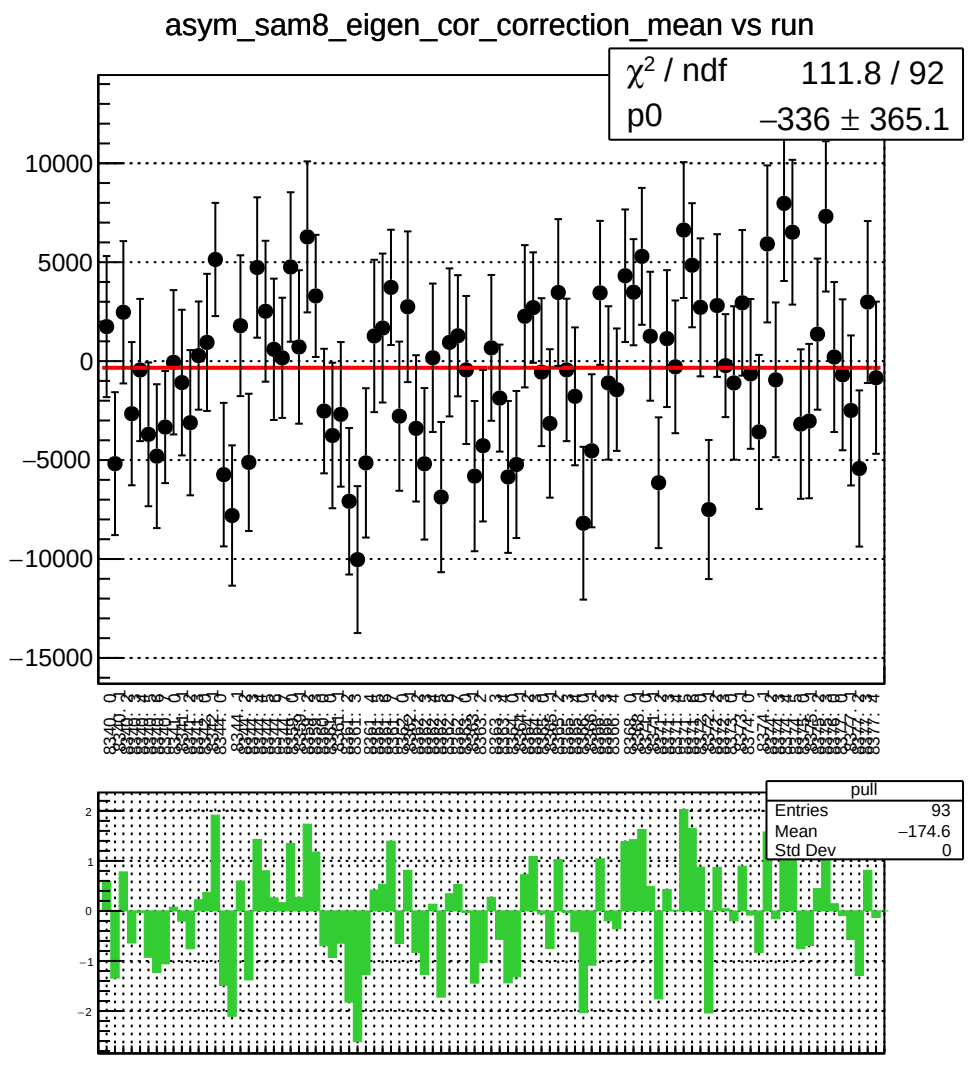
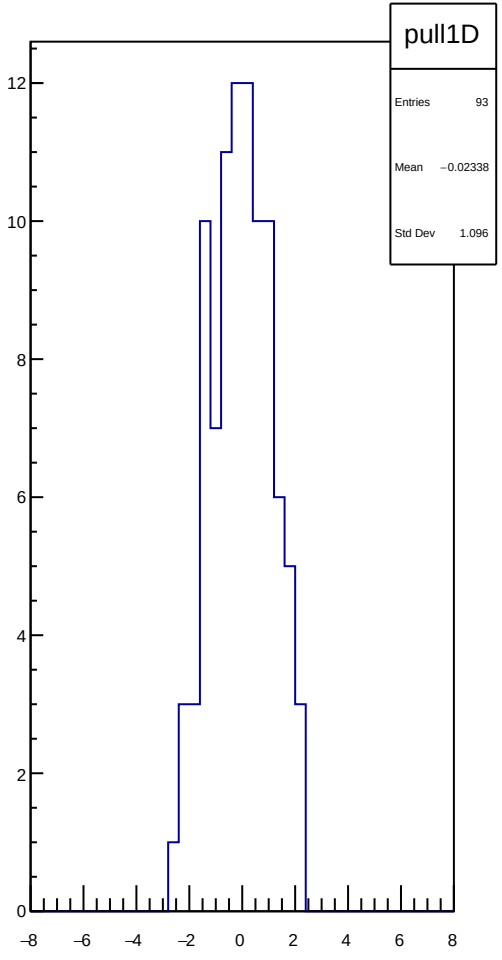
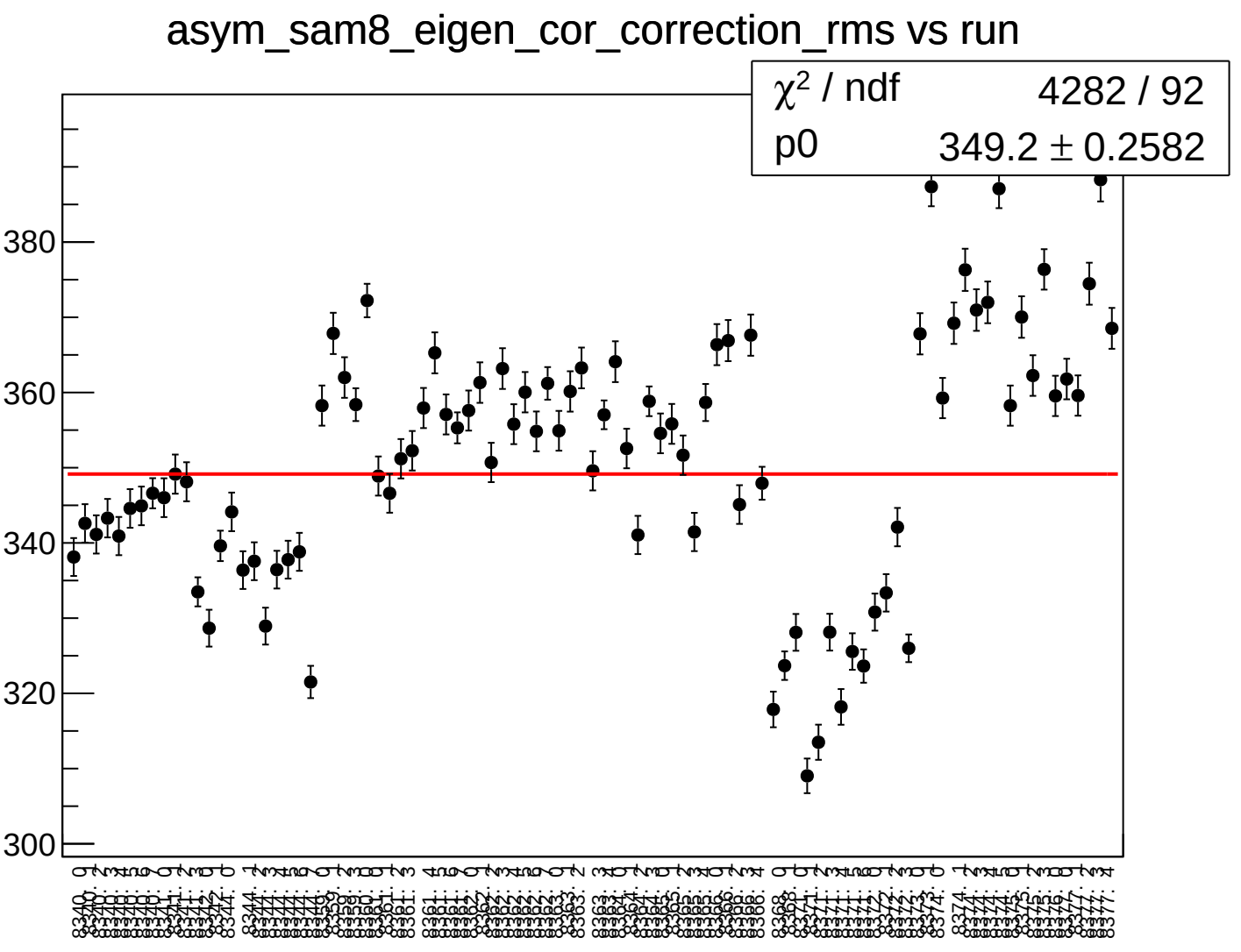
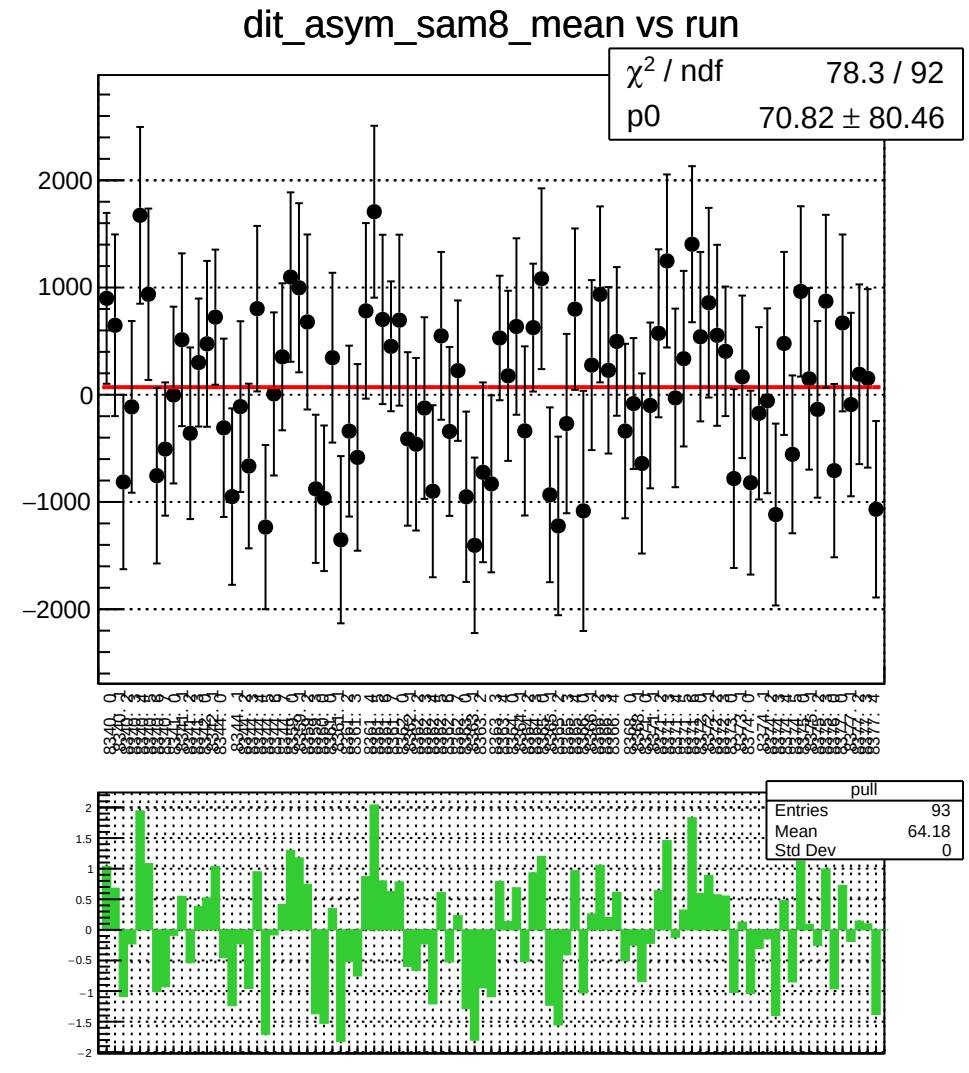
−8
−6
−4
−2
0
2
4
6
8

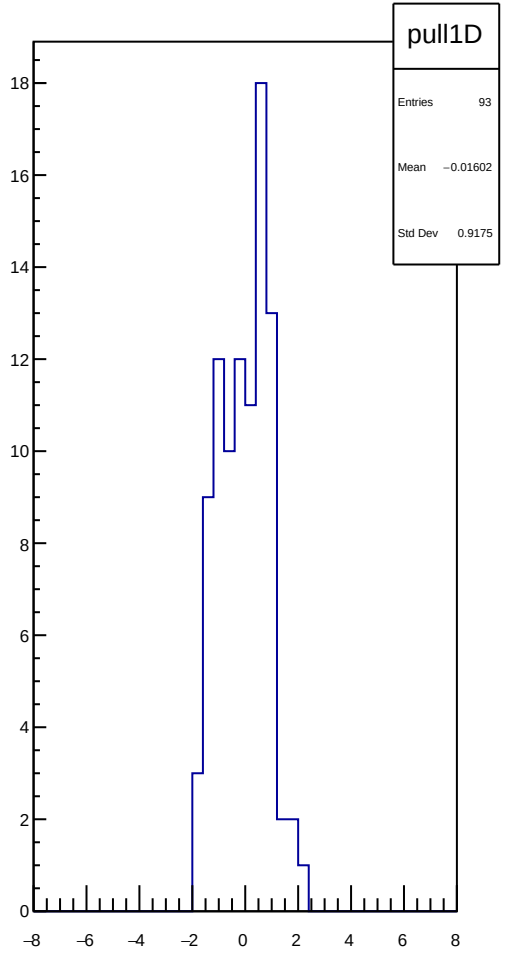

eigen_cor_asym_sam8_rms vs run
χ² / ndf 3545 / 92
p0 70.15 ± 0.05186
105
100
95
90
85
80
75
70
65

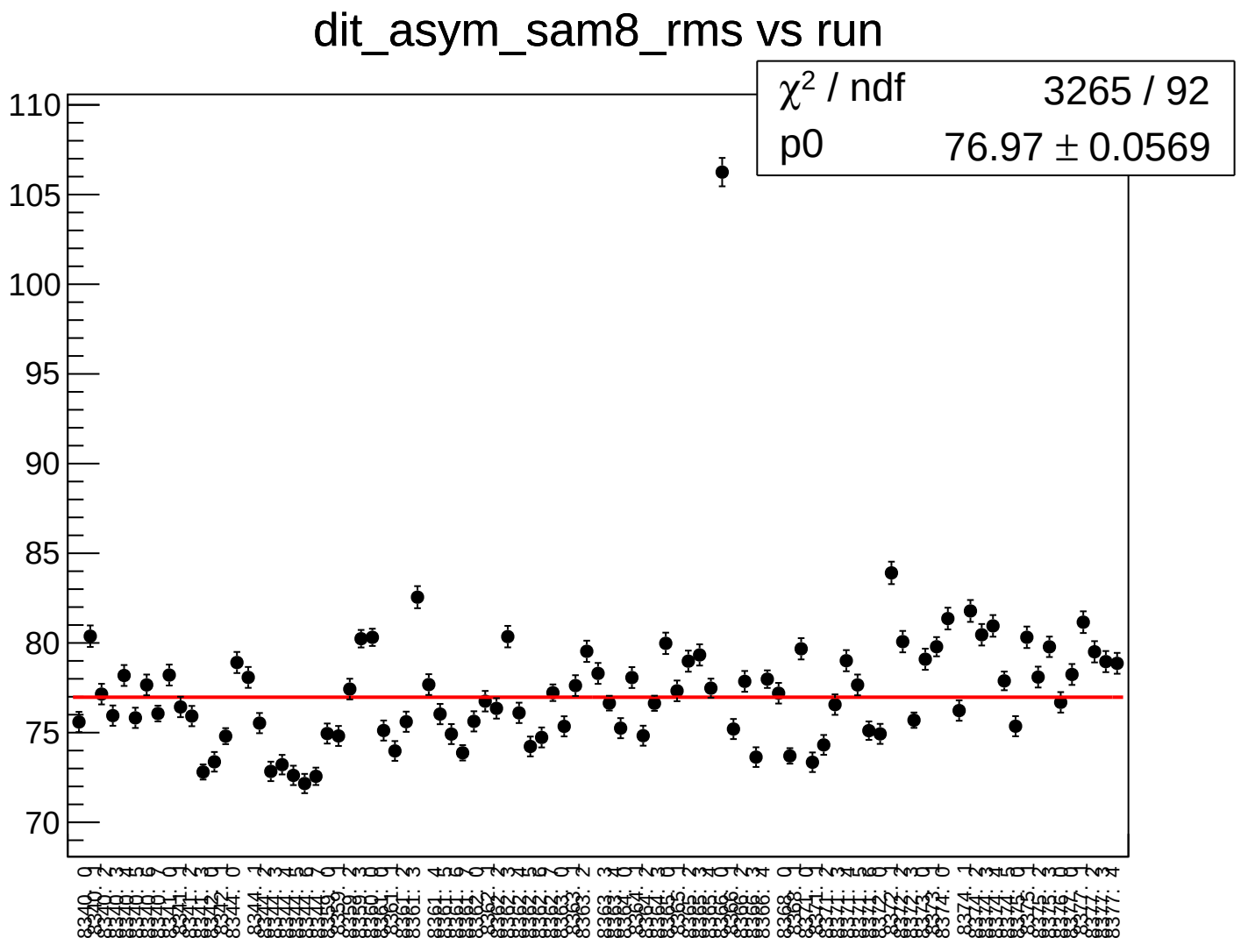

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 111.8 / 92
p0 −336 ± 365.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −174.6
Std Dev 0
2
1
0
−1
−2

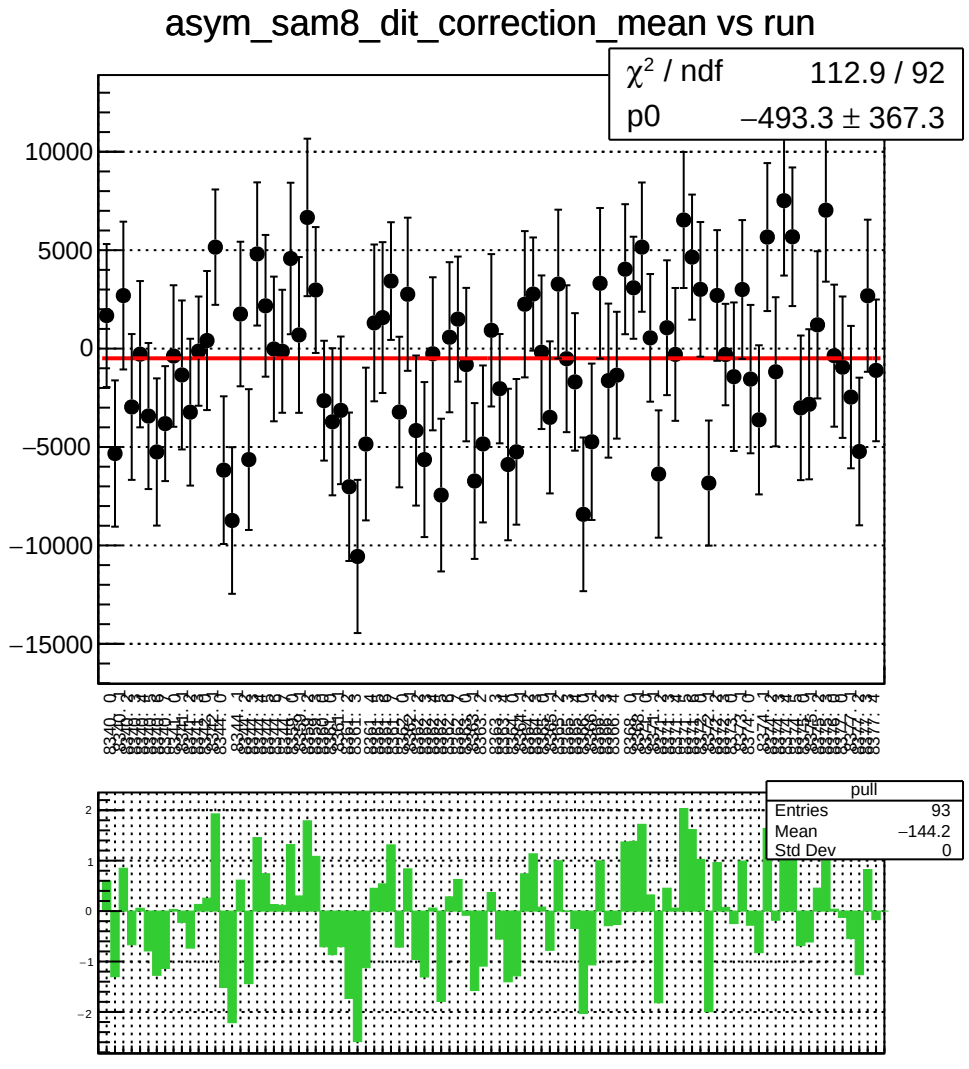

pull1D
Entries 93
Mean −0.02338
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

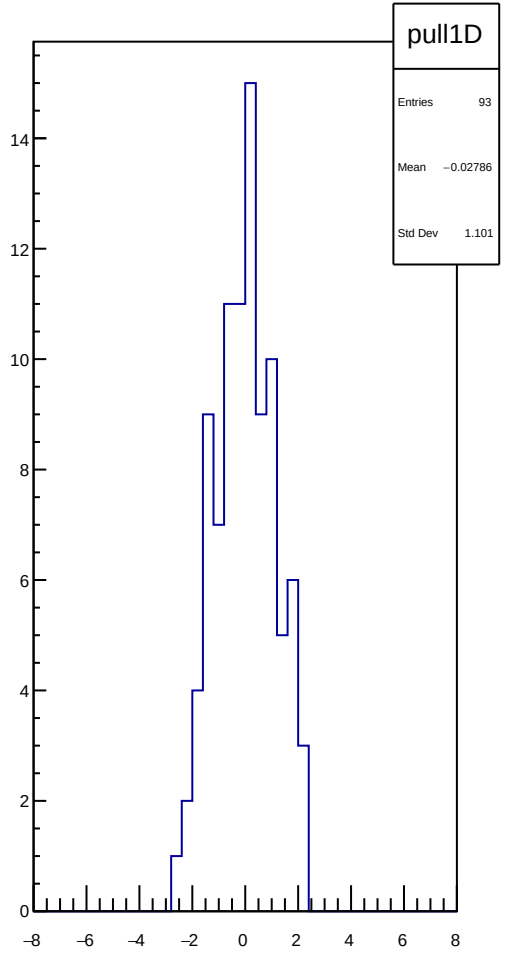

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4282 / 92
p0 349.2 ± 0.2582
380
360
340
320
300

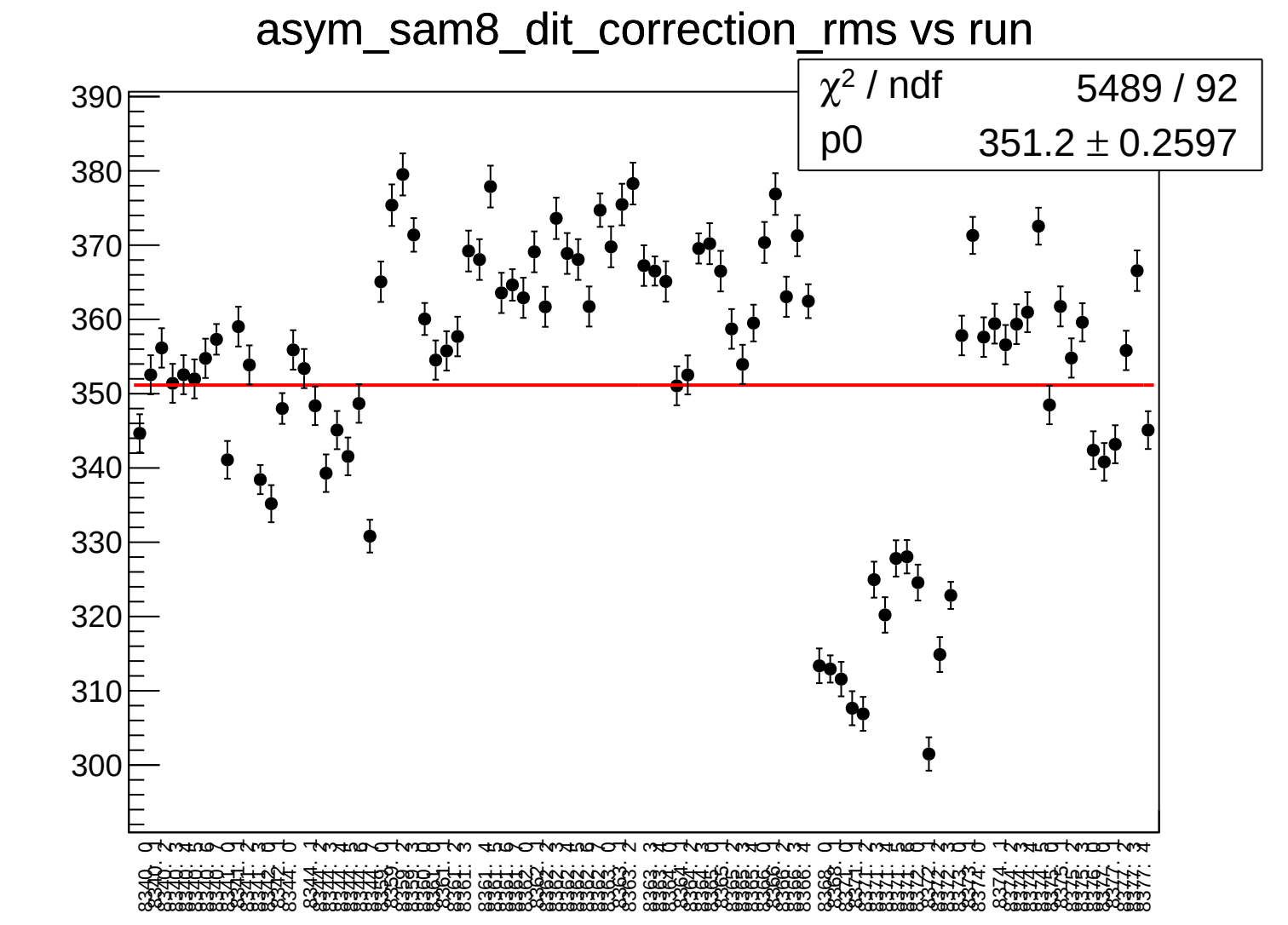

dit_asym_sam8_mean vs run
χ² / ndf 78.3 / 92
p0 70.82 ± 80.46
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 64.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

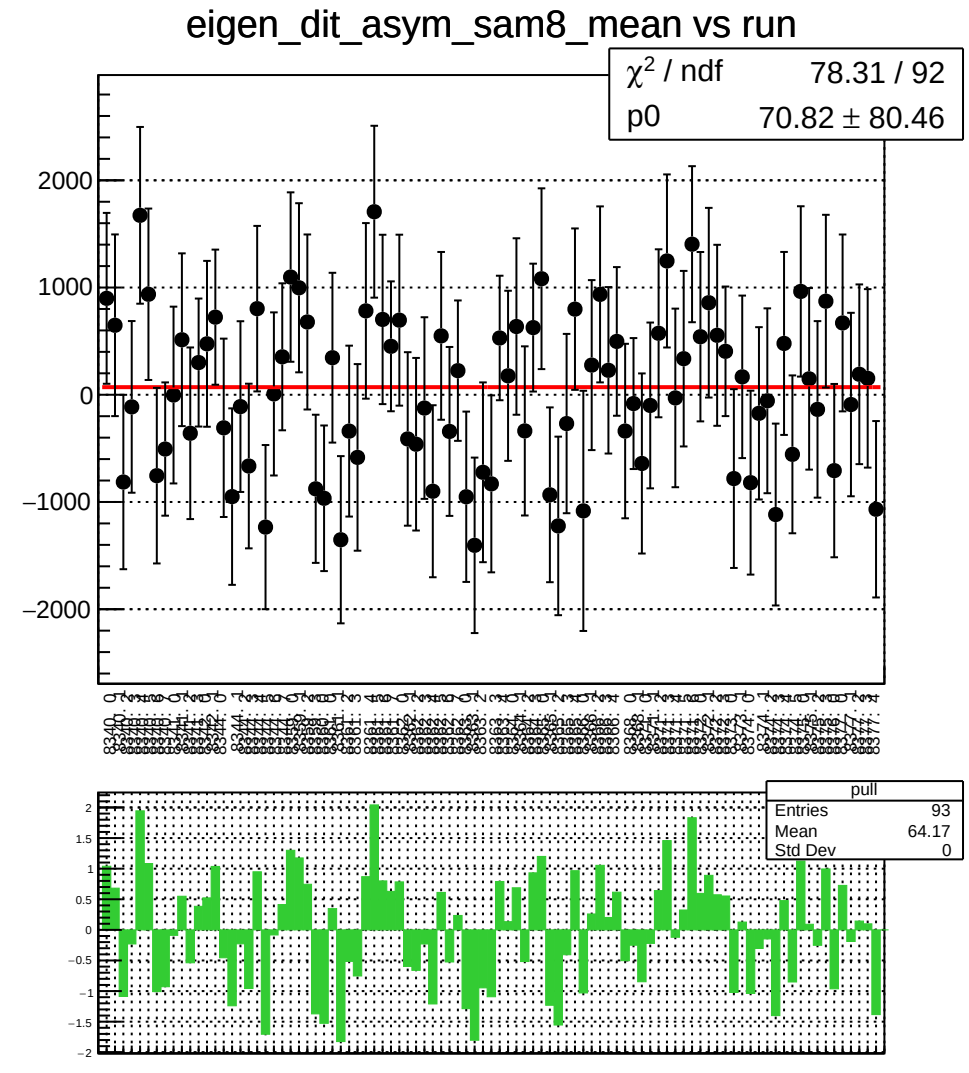

pull1D
Entries 93
Mean −0.01602
Std Dev 0.9175
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

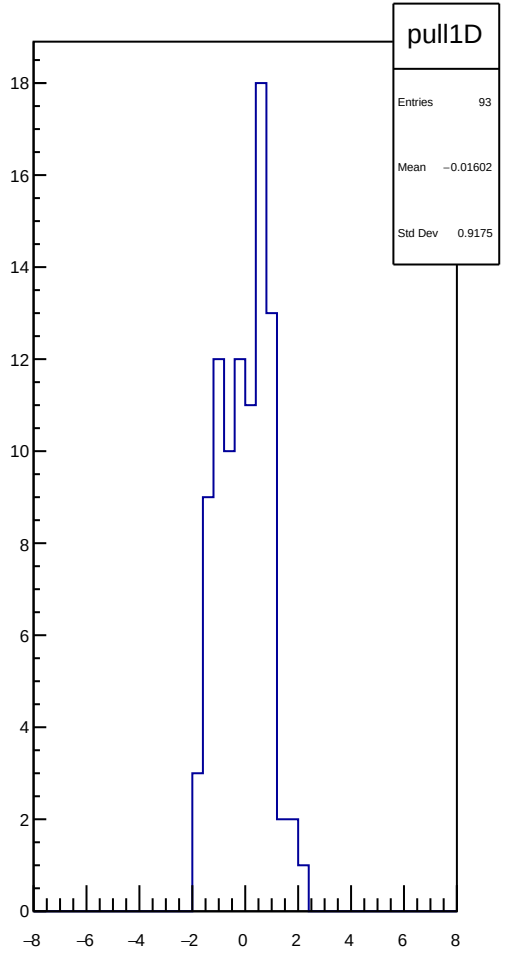

dit_asym_sam8_rms vs run
χ^2 / ndf 3265 / 92
p0 76.97 ± 0.0569
110
105
100
95
90
85
80
75
70

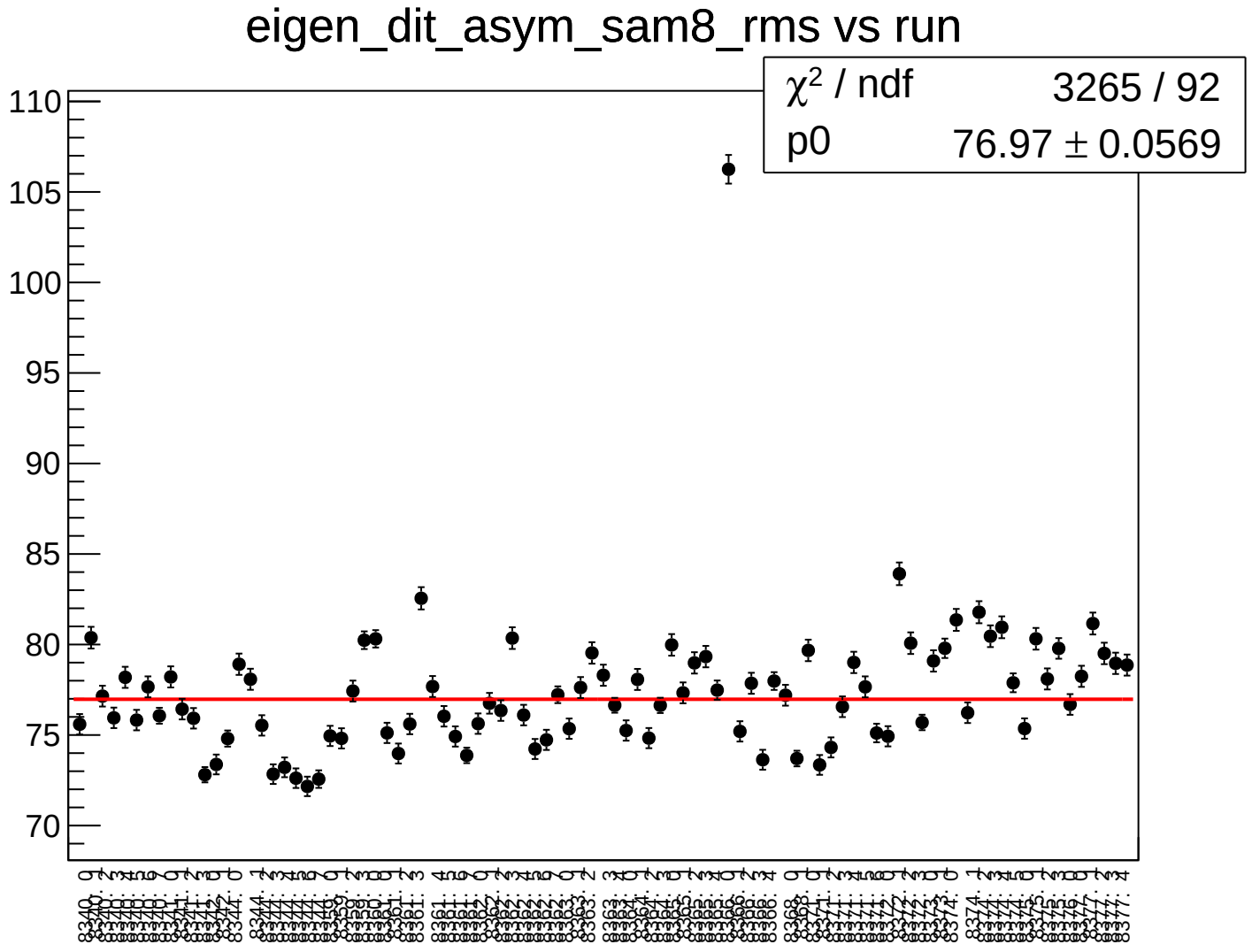

asym_sam8_dit_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −493.3 ± 367.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −144.2
Std Dev 0
2
1
0
−1
−2

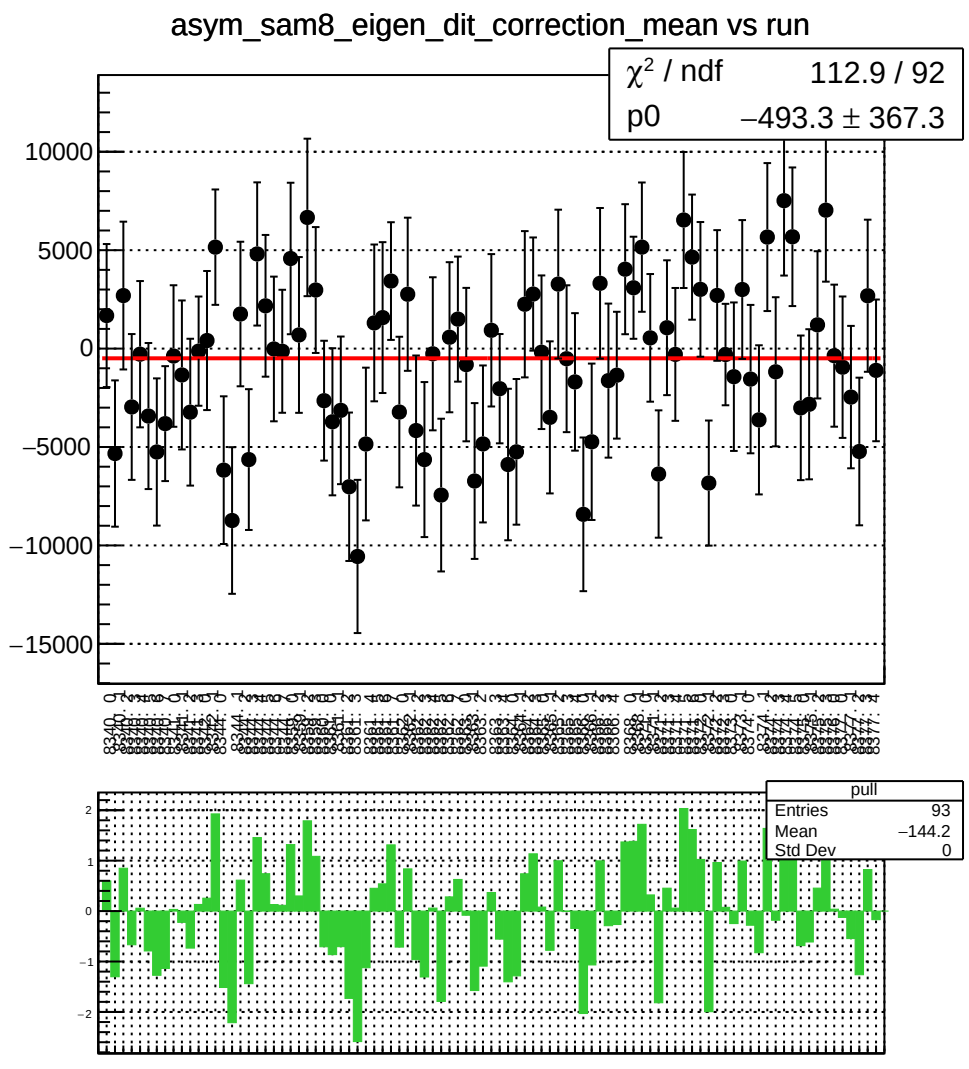

pull1D
Entries 93
Mean −0.02786
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

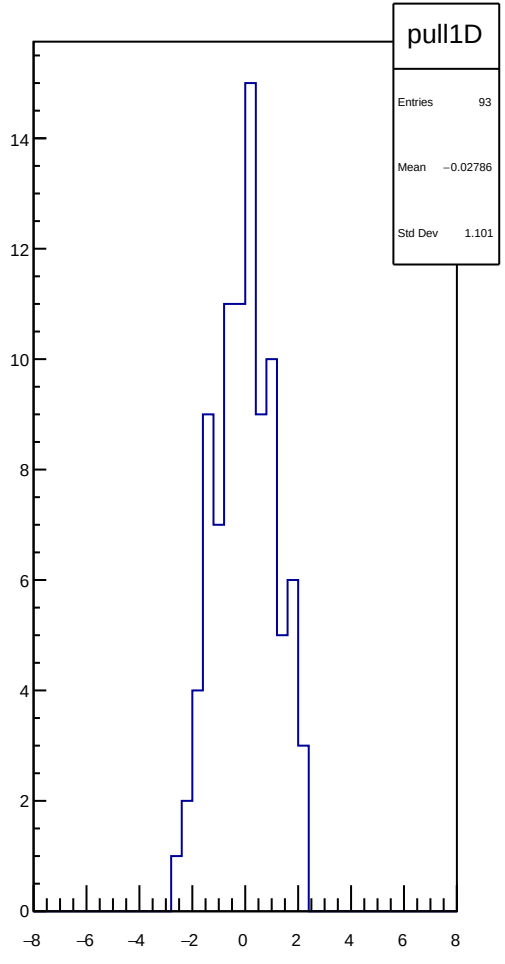

asym_sam8_dit_correction_rms vs run
χ² / ndf 5489 / 92
p0 351.2 ± 0.2597
390
380
370
360
350
340
330
320
310
300


eigen_dit_asym_sam8_mean vs run
χ² / ndf 78.31 / 92
p0 70.82 ± 80.46
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 64.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 93
Mean −0.01602
Std Dev 0.9175
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam8_rms vs run
χ² / ndf 3265 / 92
p0 76.97 ± 0.0569
110
105
100
95
90
85
80
75
70


asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −493.3 ± 367.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −144.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.02786
Std Dev 1.101
14
12
10
8
6
4
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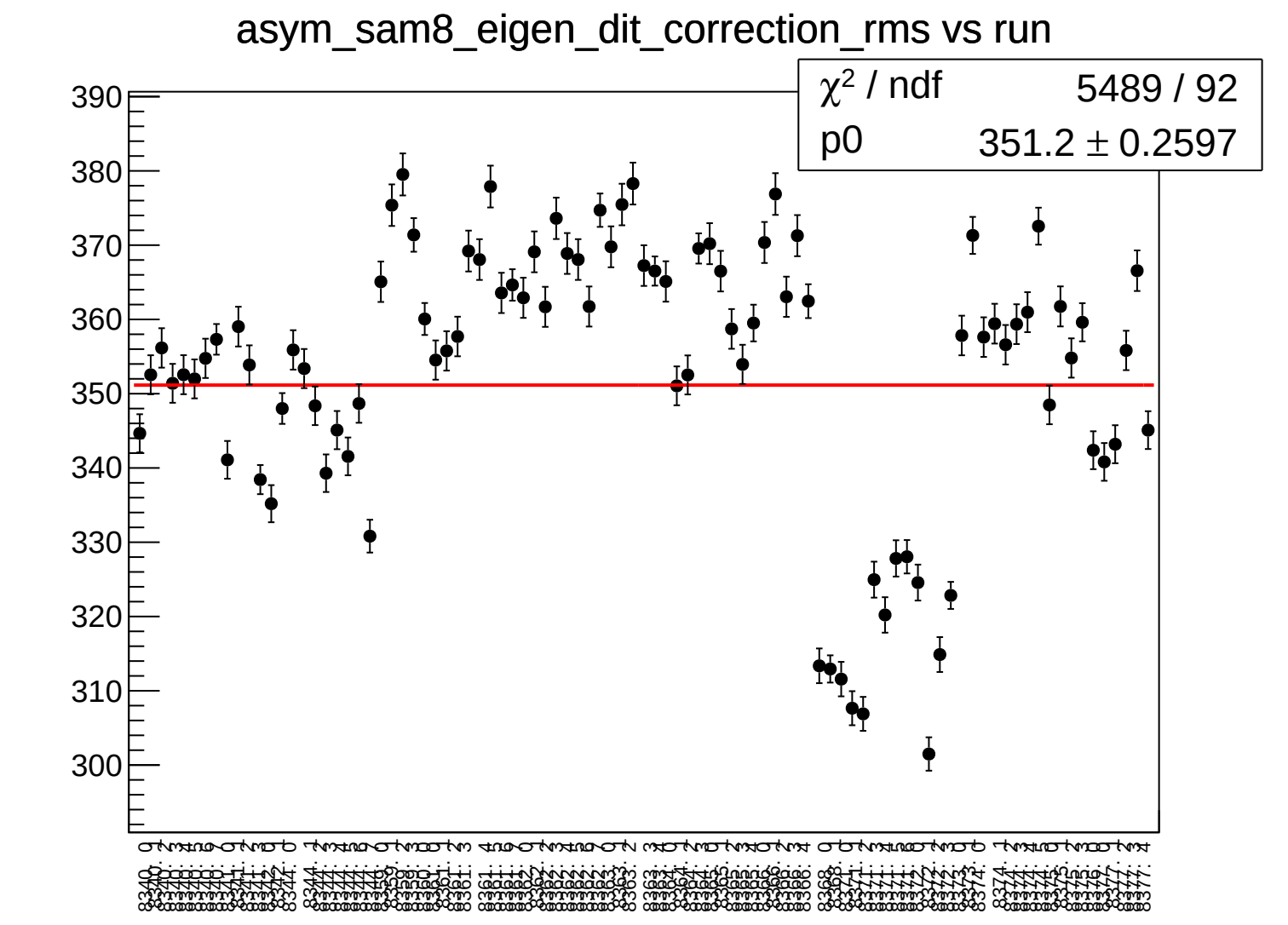
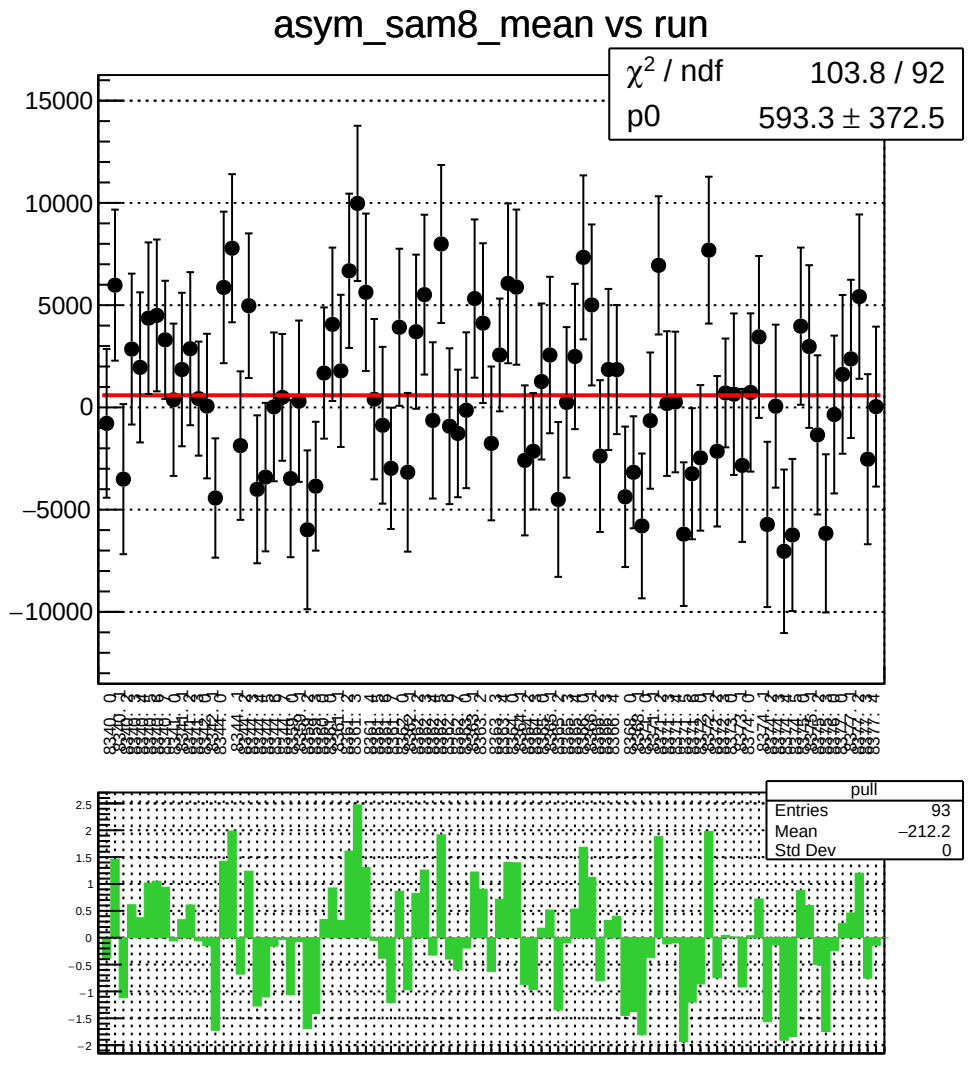
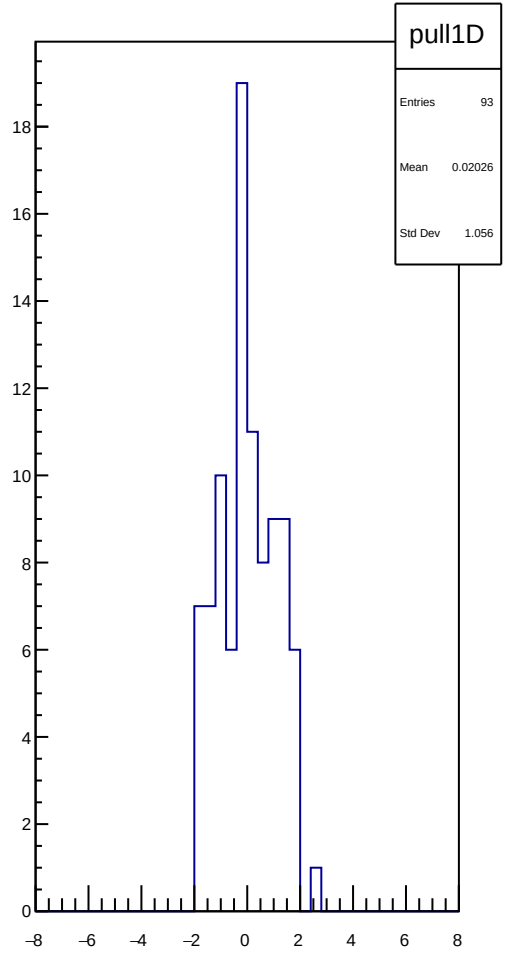
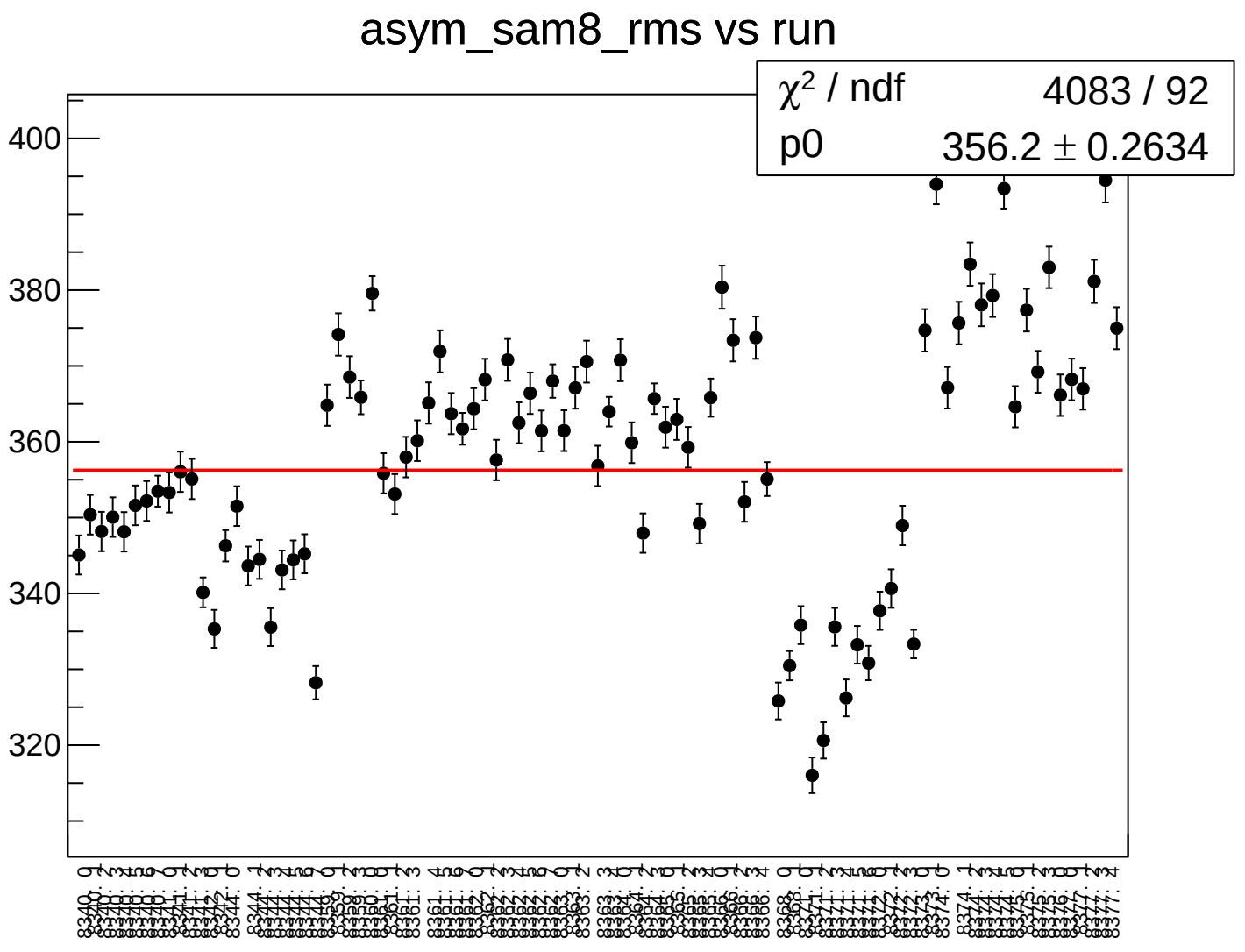
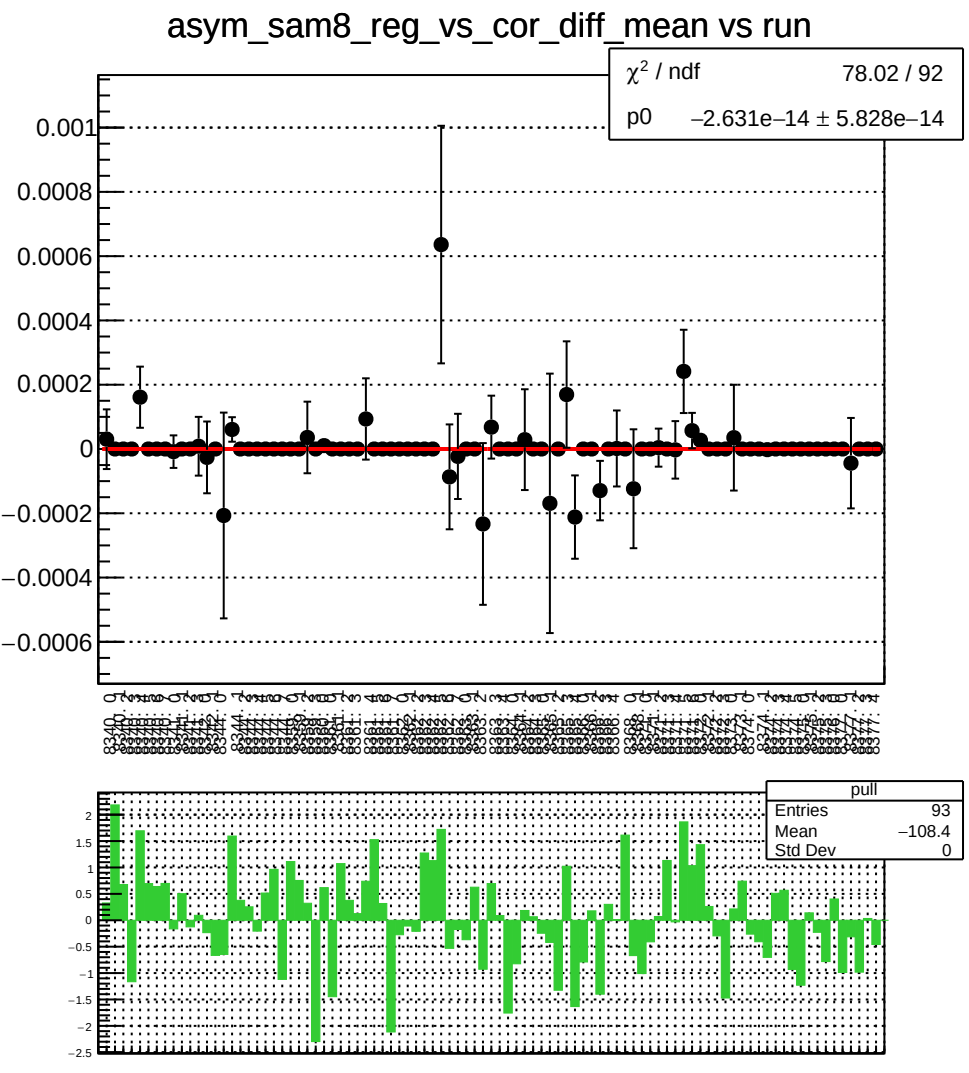
−8
−6
−4
−2
0
2
4
6
8

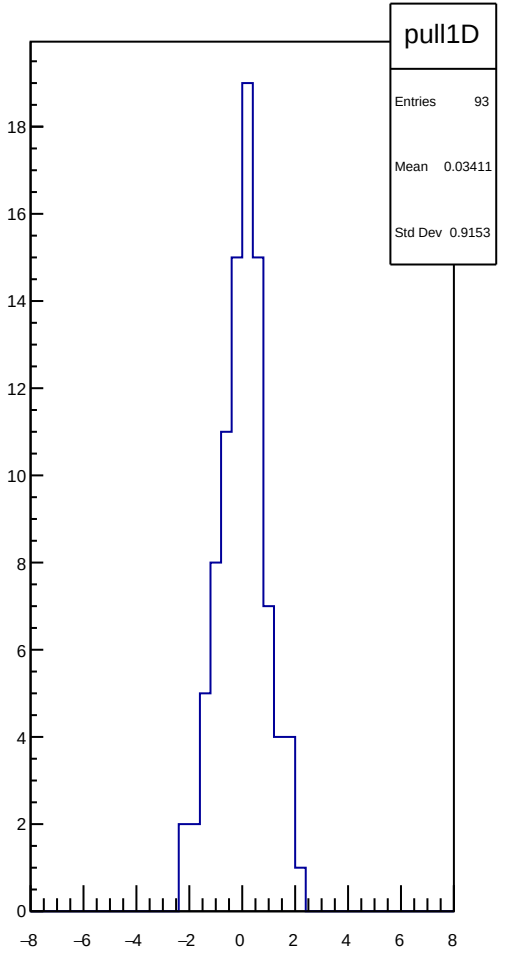

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 5489 / 92
p0 351.2 ± 0.2597
390
380
370
360
350
340
330
320
310
300

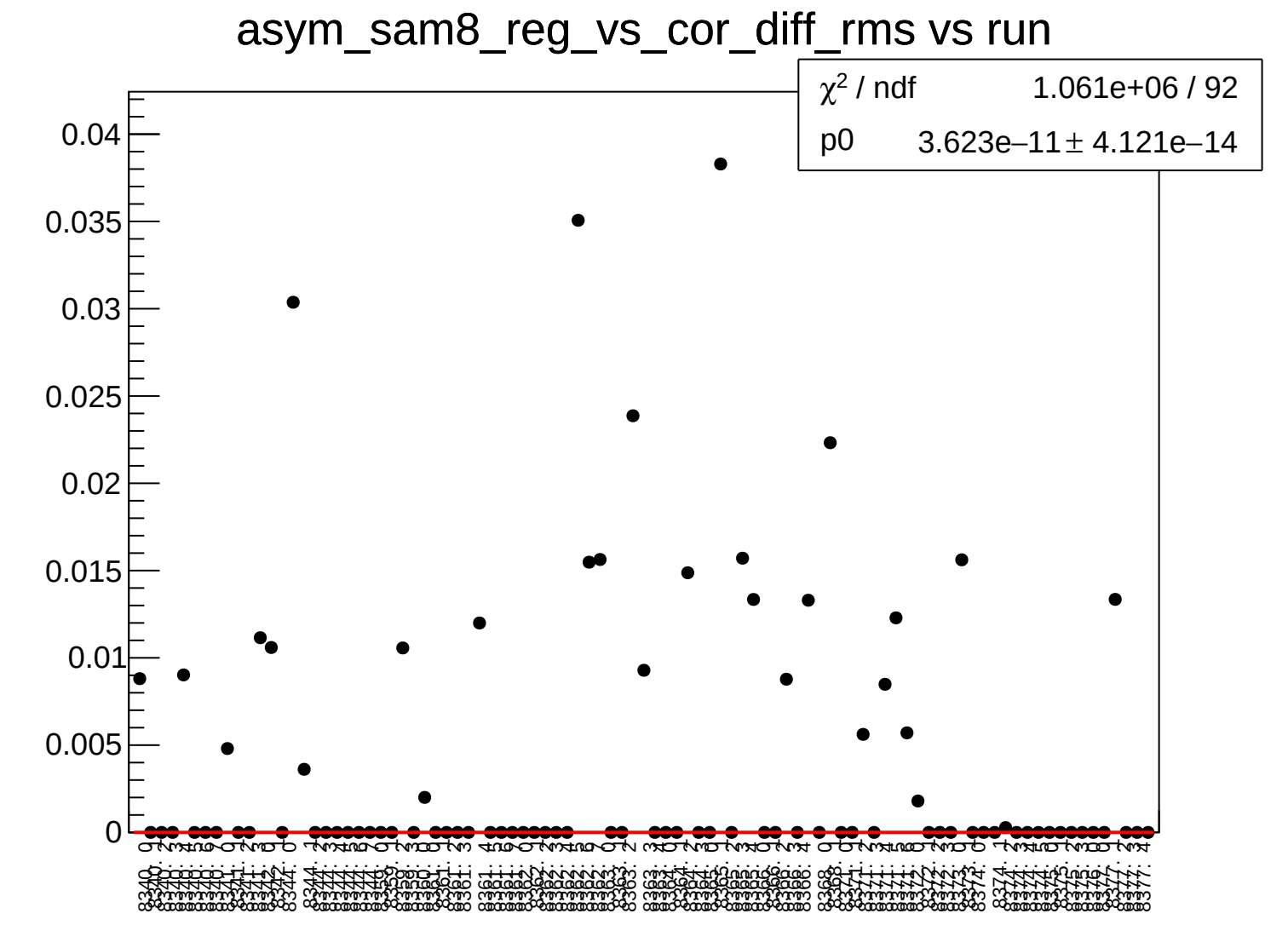

asym_sam8_mean vs run
χ² / ndf 103.8 / 92
p0 593.3 ± 372.5
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −212.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

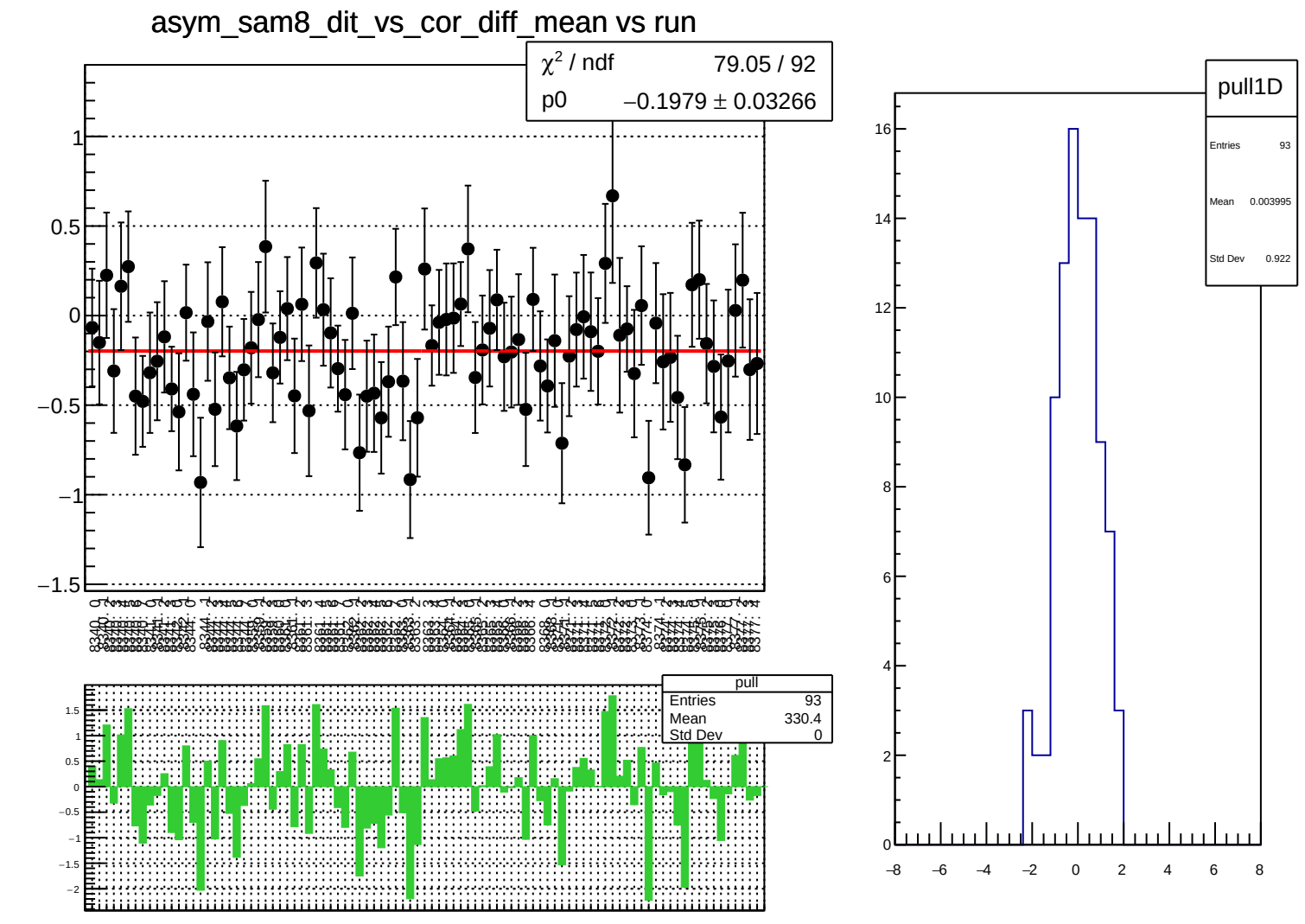

pull1D
Entries 93
Mean 0.02026
Std Dev 1.056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

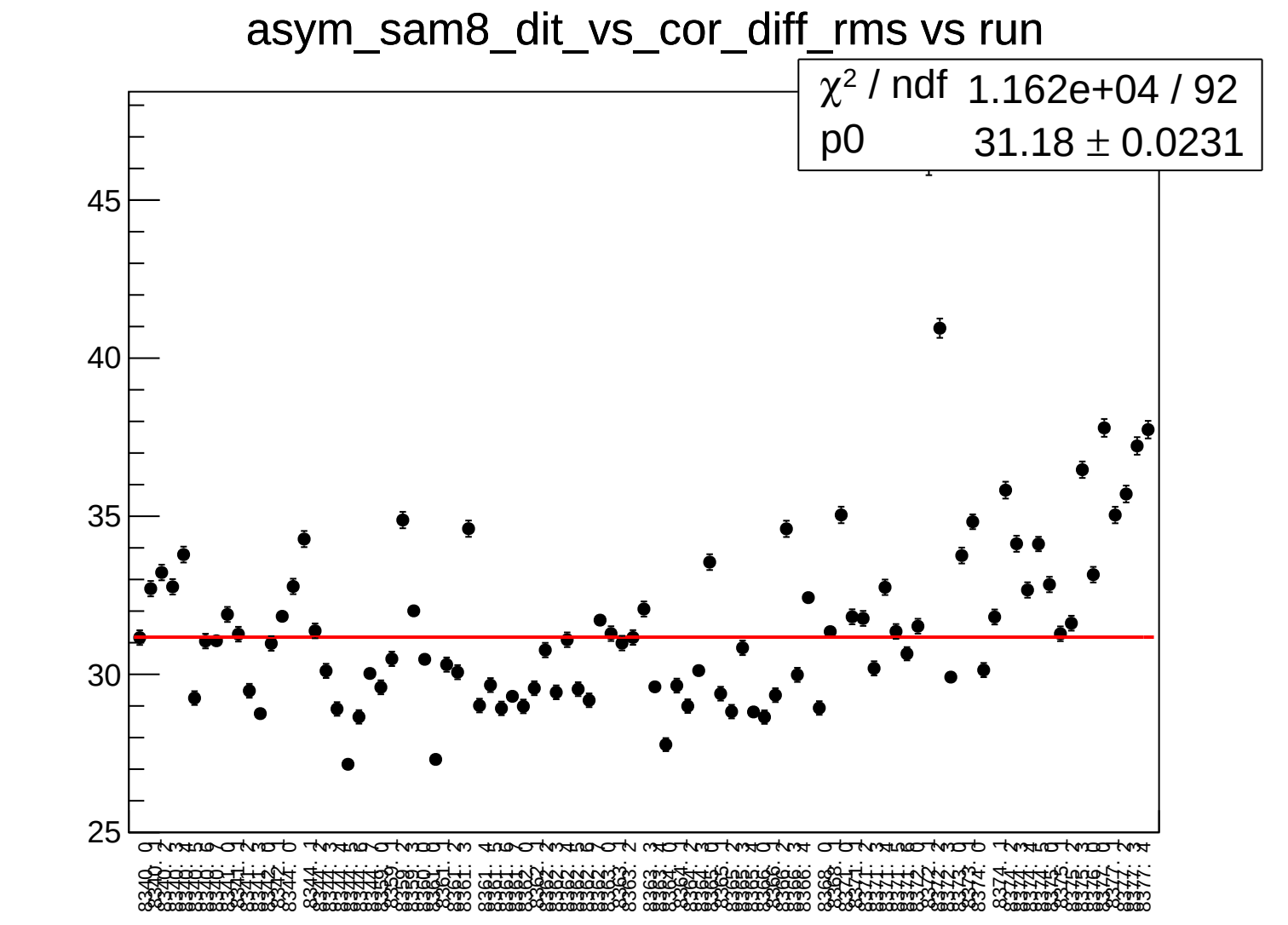

asym_sam8_rms vs run
χ² / ndf 4083 / 92
p0 356.2 ± 0.2634
400
380
360
340
320

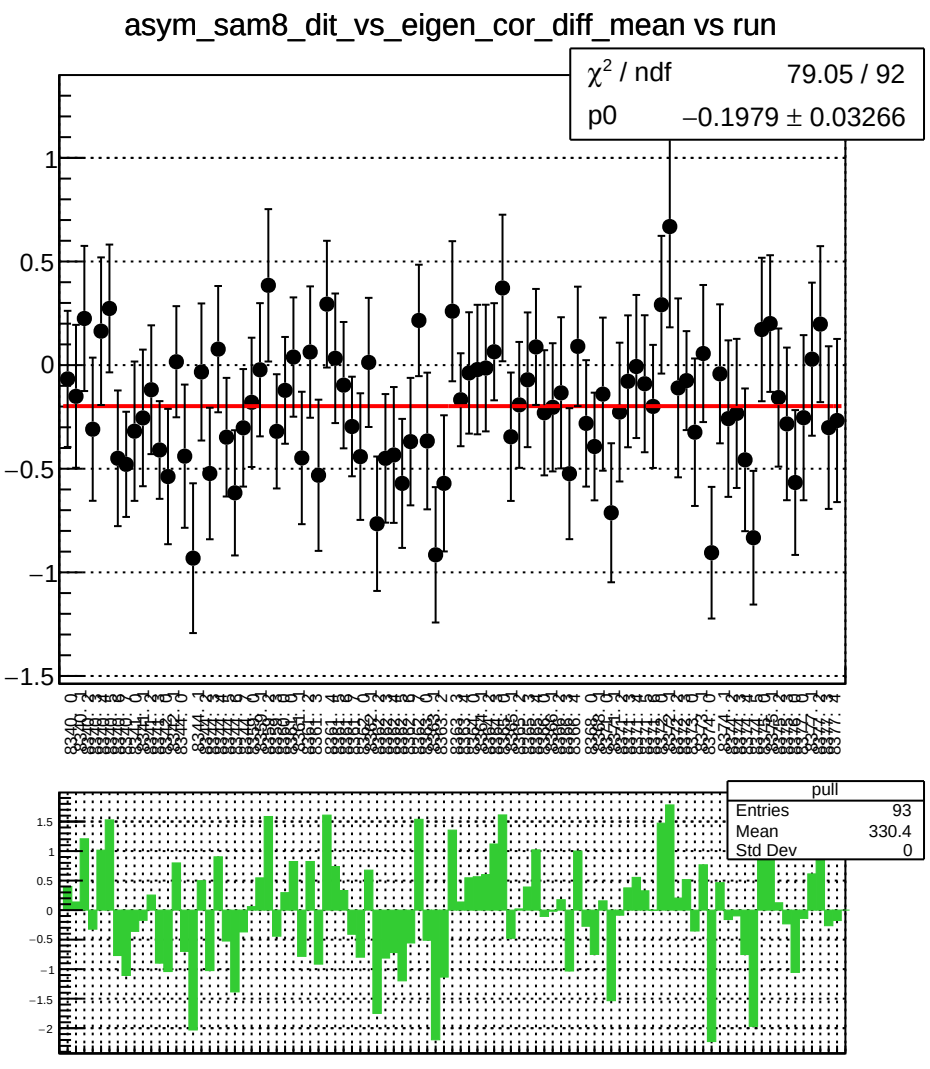

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 78.02 / 92
p0 −2.631e−14 ± 5.828e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 93
Mean −108.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

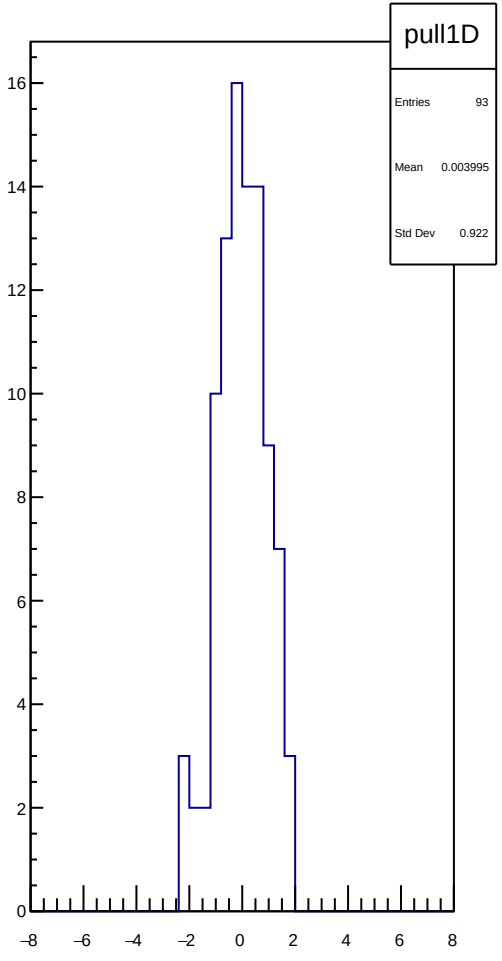

pull1D
Entries 93
Mean 0.03411
Std Dev 0.9153
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

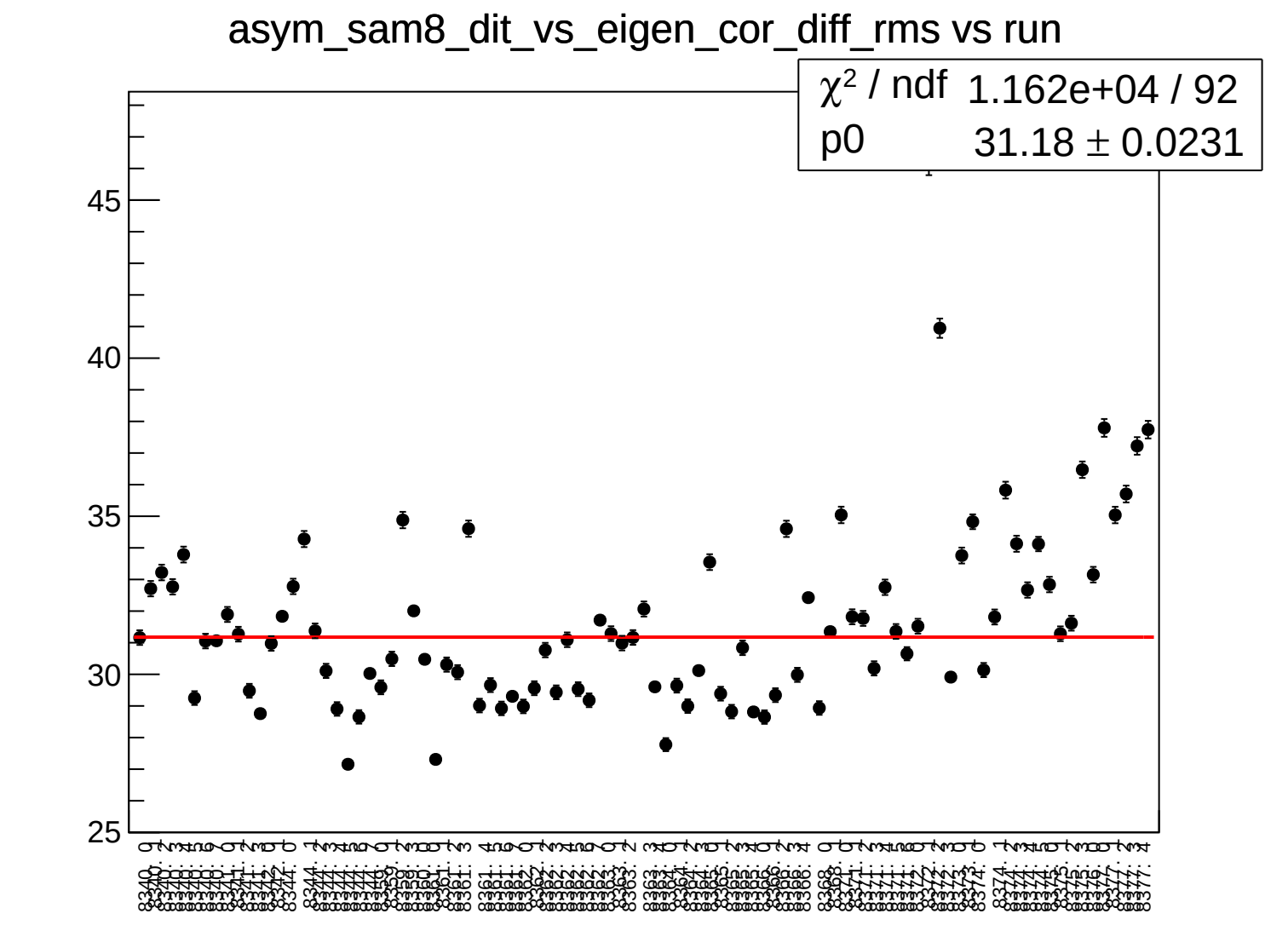

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 92
p0 3.623e−11 ± 4.121e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

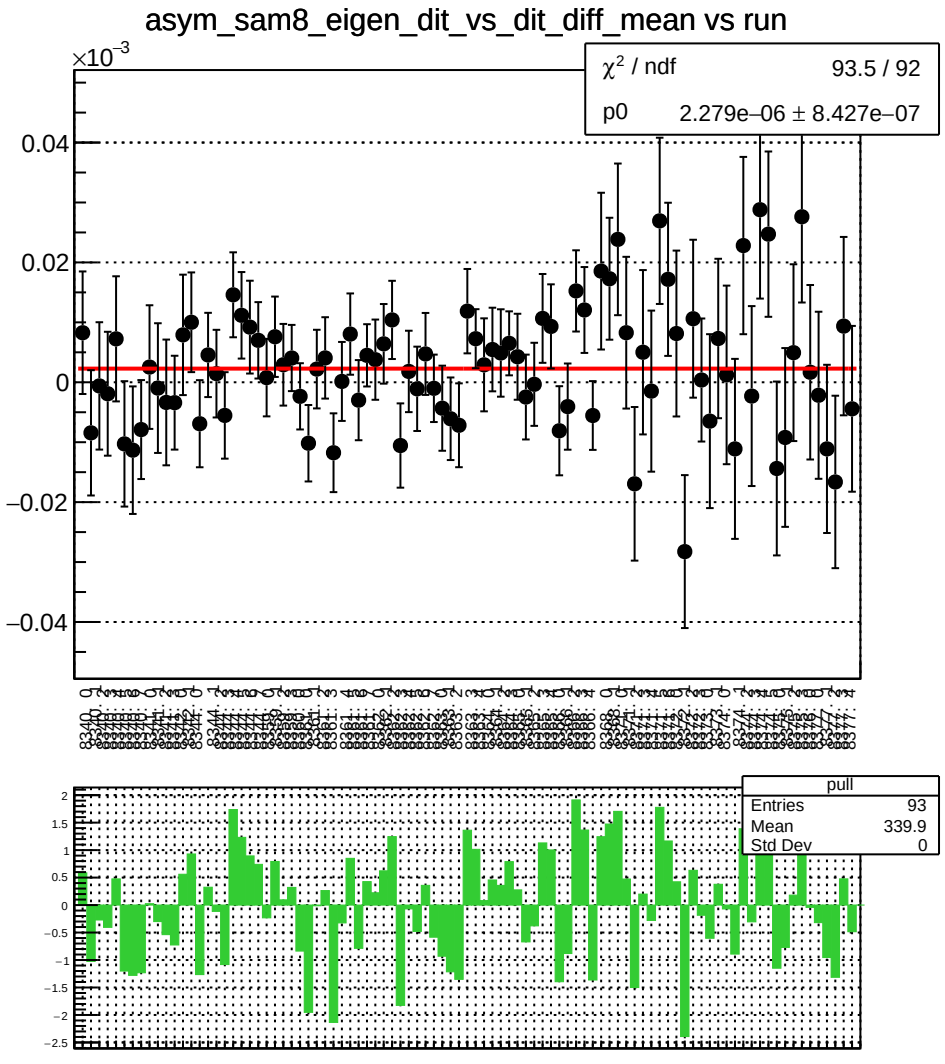

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 79.05 / 92
p0 −0.1979 ± 0.03266
pull
Entries 93
Mean 330.4
Std Dev 0
pull1D
Entries 93
Mean 0.003995
Std Dev 0.922

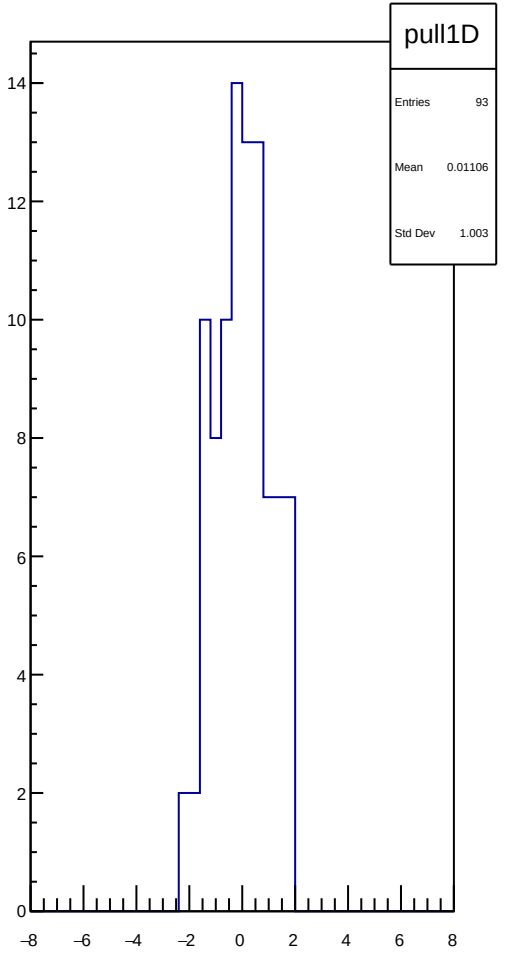

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.162e+04 / 92
p0 31.18 ± 0.0231
45
40
35
30
25

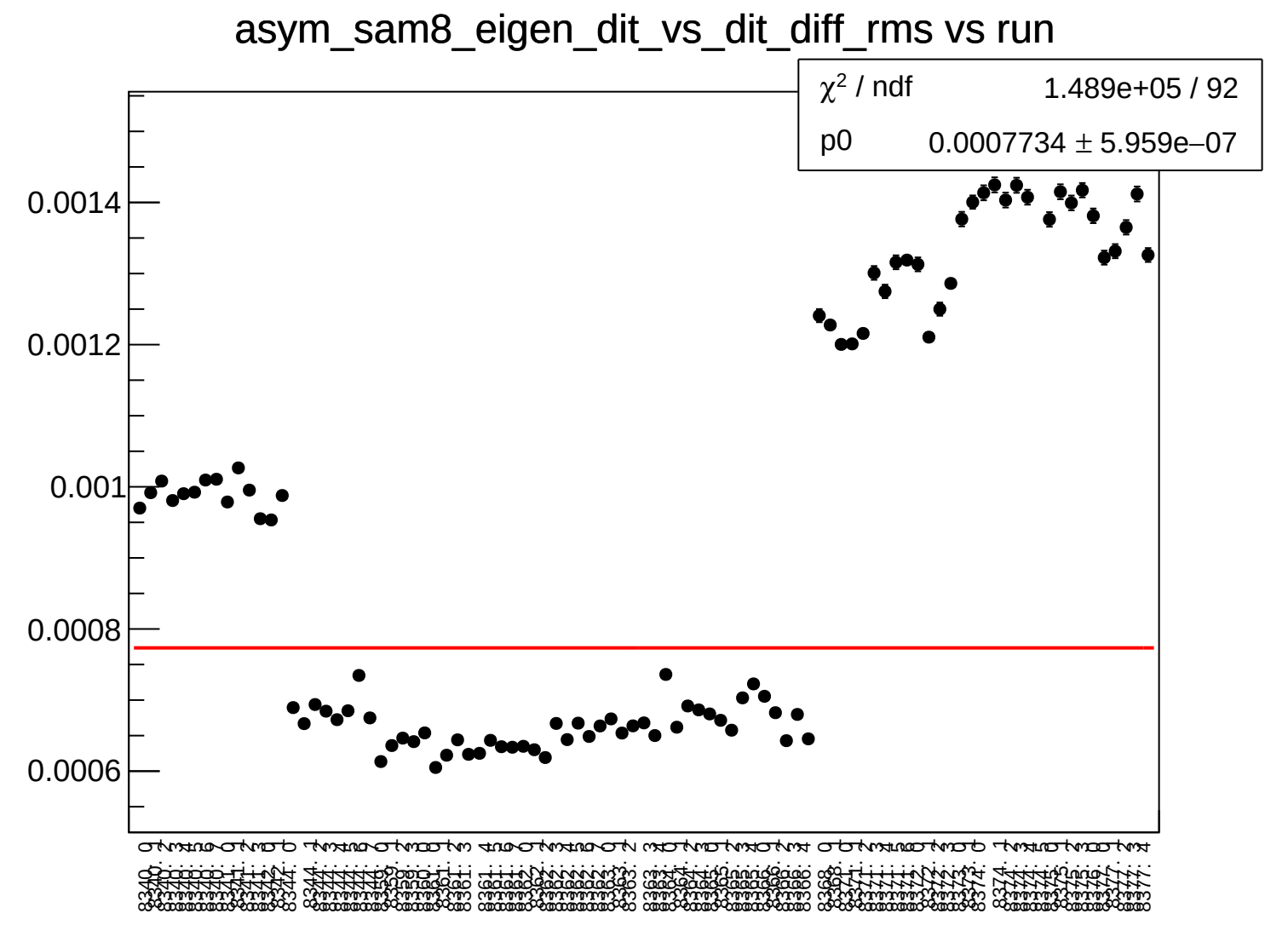

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.05 / 92
p0 −0.1979 ± 0.03266
pull
Entries 93
Mean 330.4
Std Dev 0

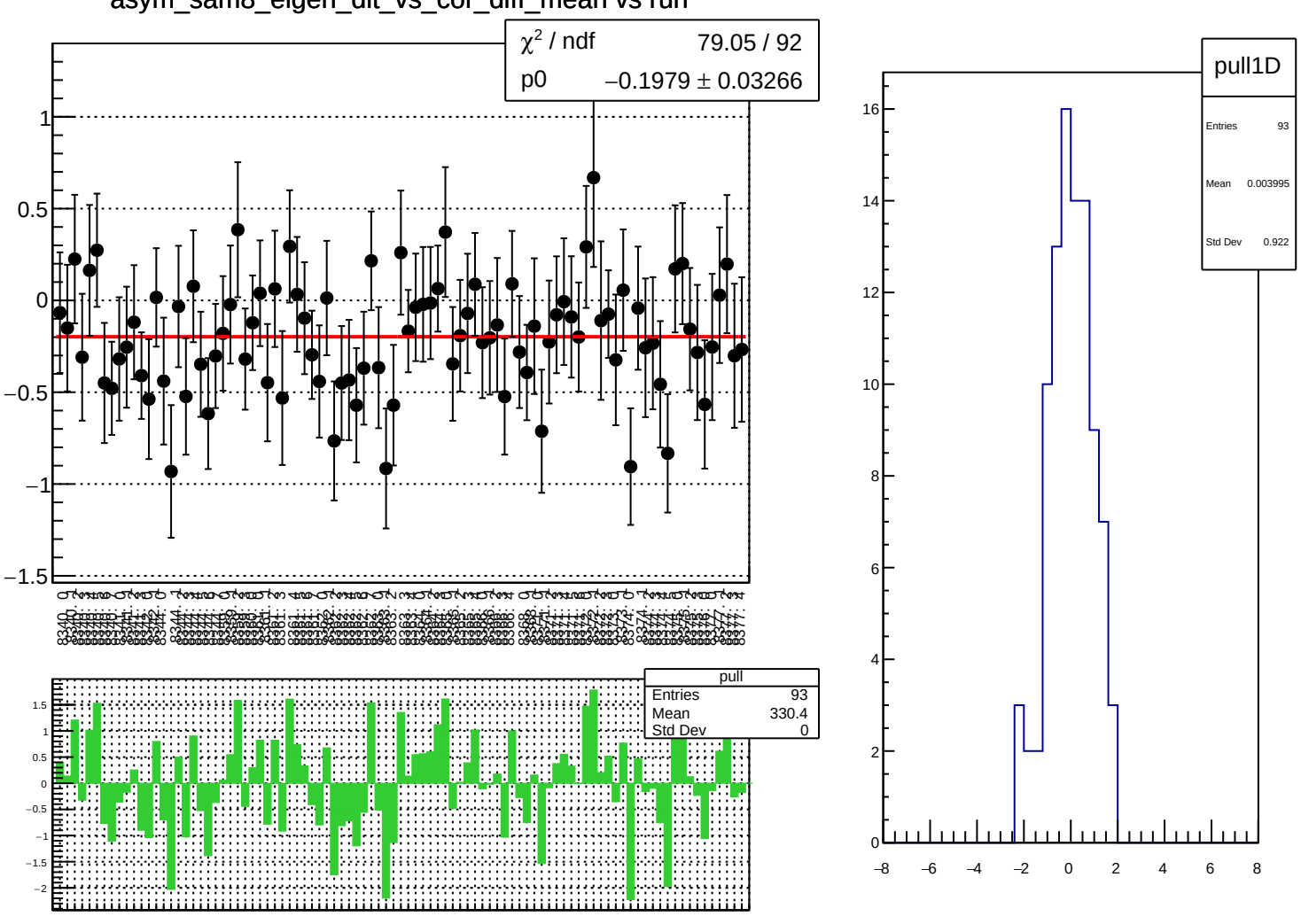

pull1D
Entries 93
Mean 0.003995
Std Dev 0.922

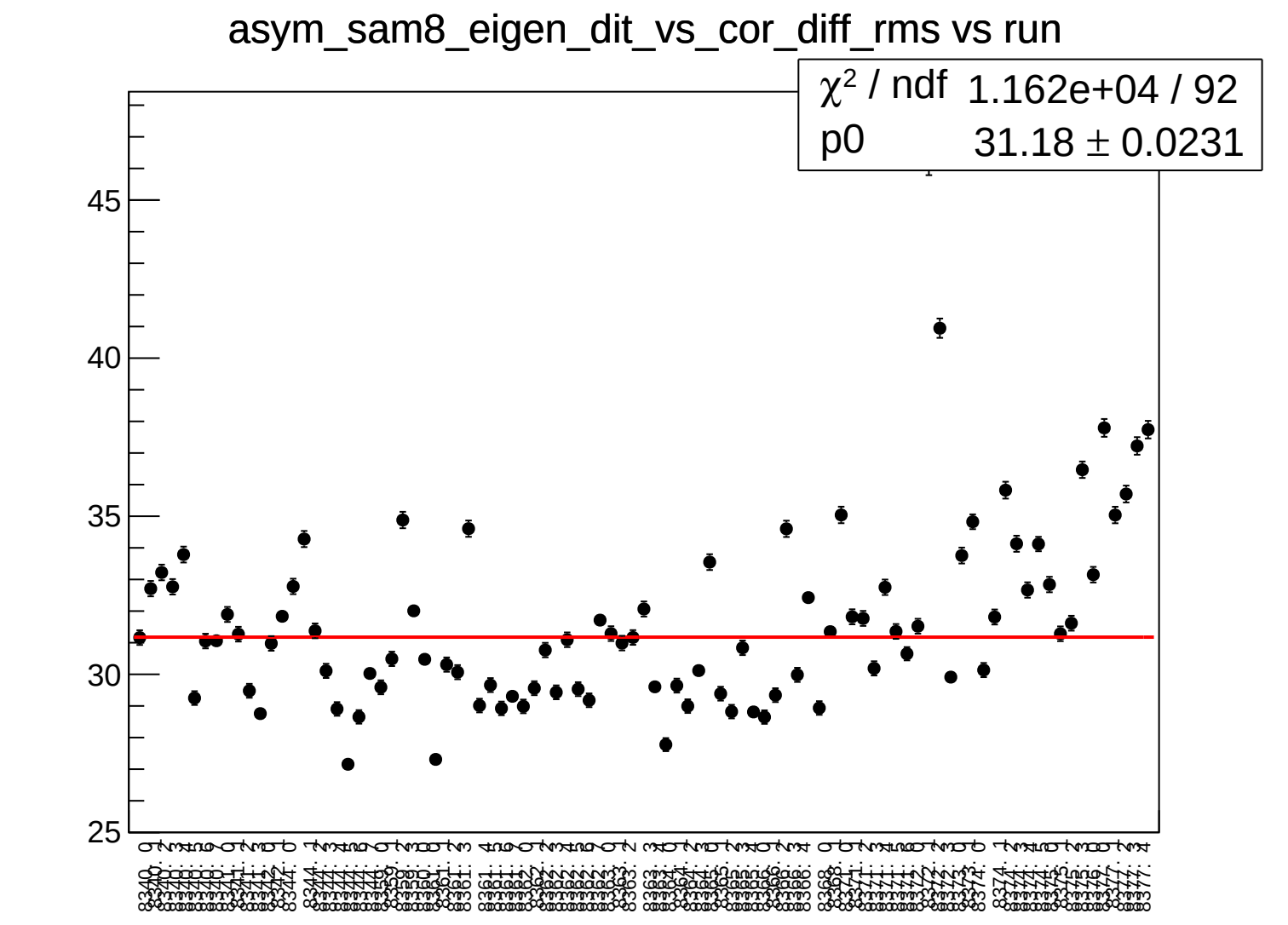

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.162e+04 / 92
p0 31.18 ± 0.0231
45
40
35
30
25

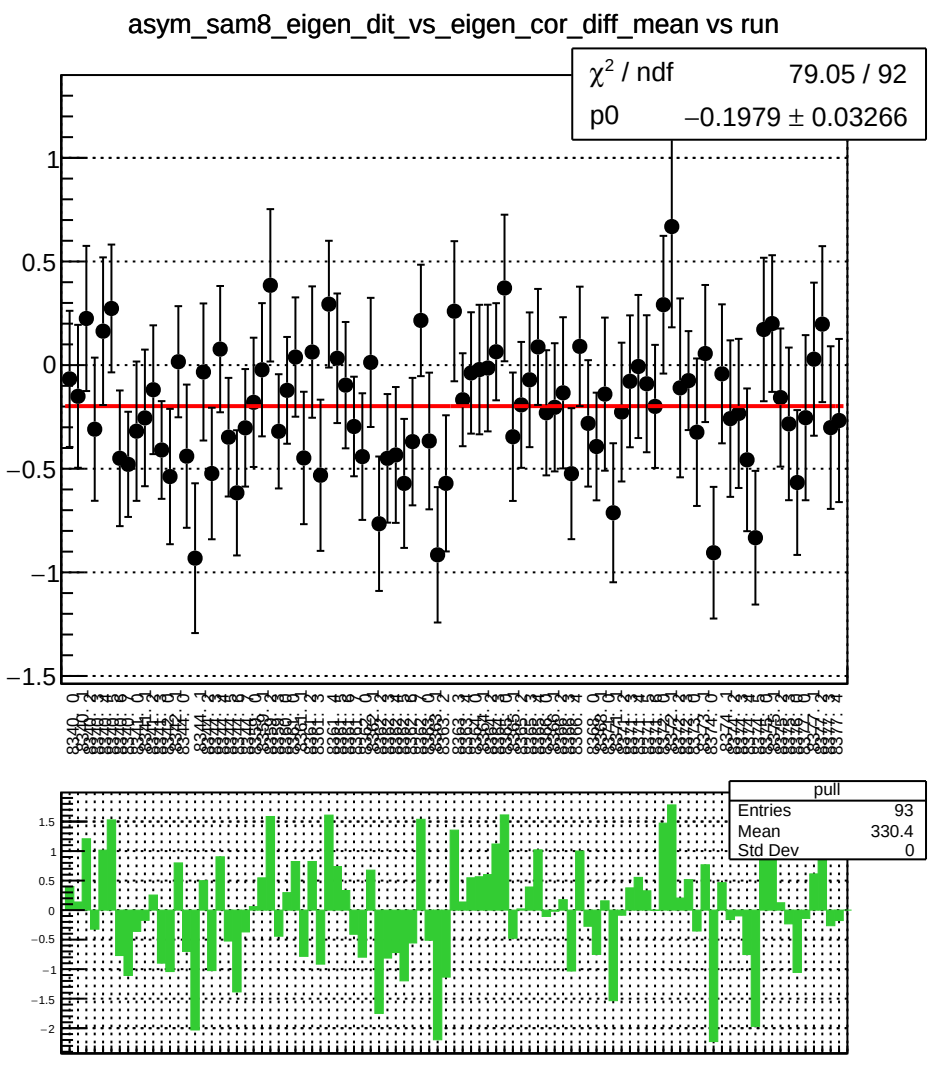

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.5 / 92
p0 2.279e−06 ± 8.427e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 339.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

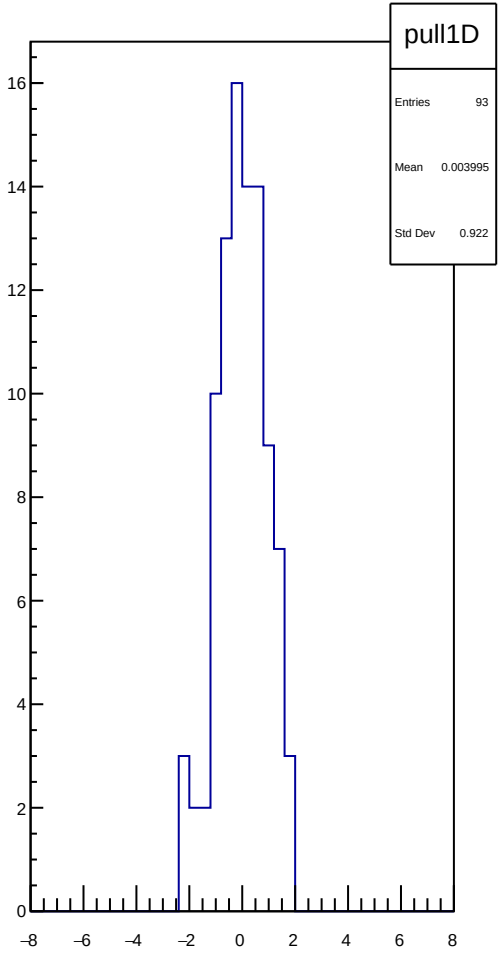

pull1D
Entries 93
Mean 0.01106
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

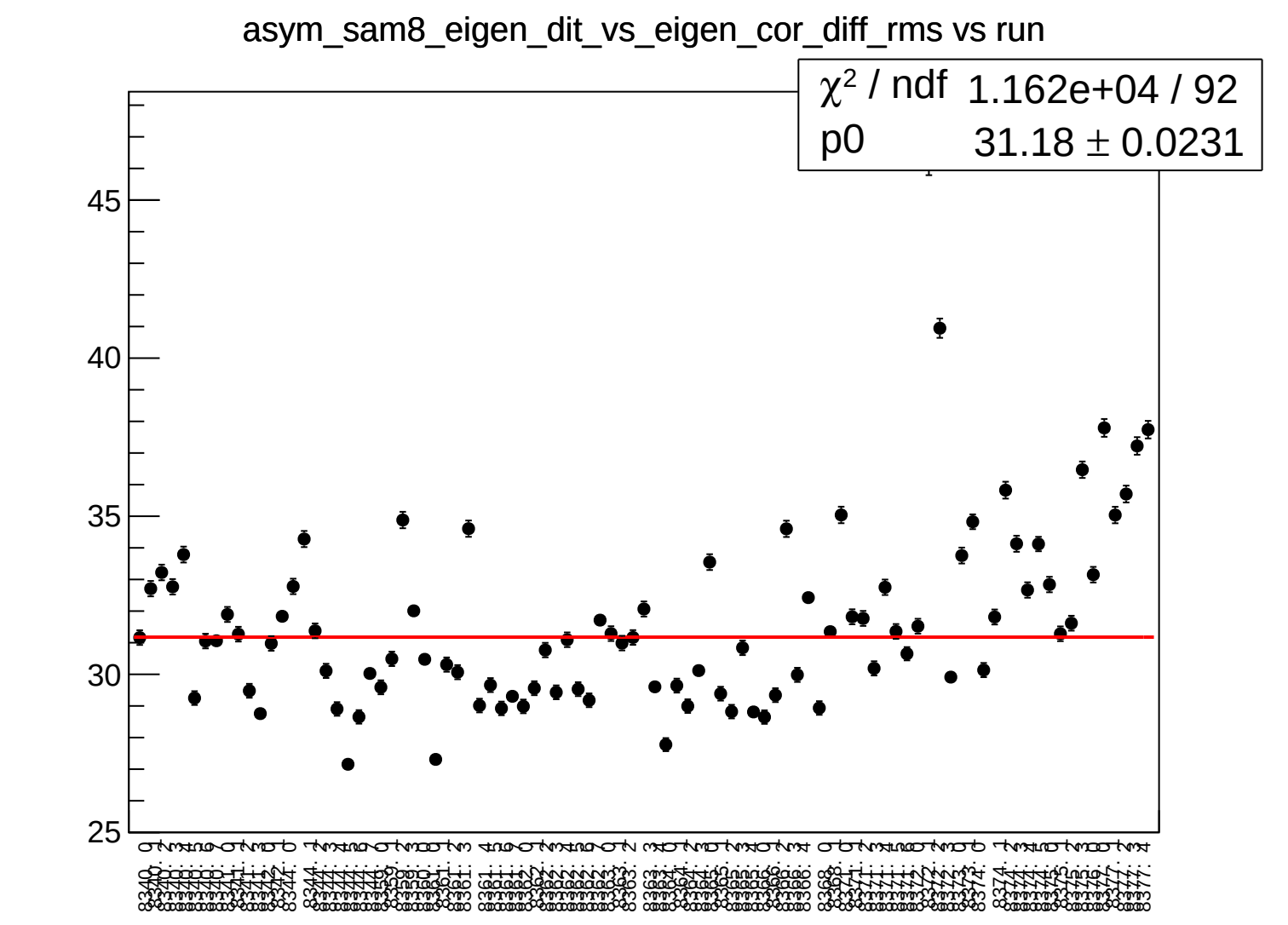

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.489e+05 / 92
p0 0.0007734 ± 5.959e−07
0.0014
0.0012
0.001
0.0008
0.0006

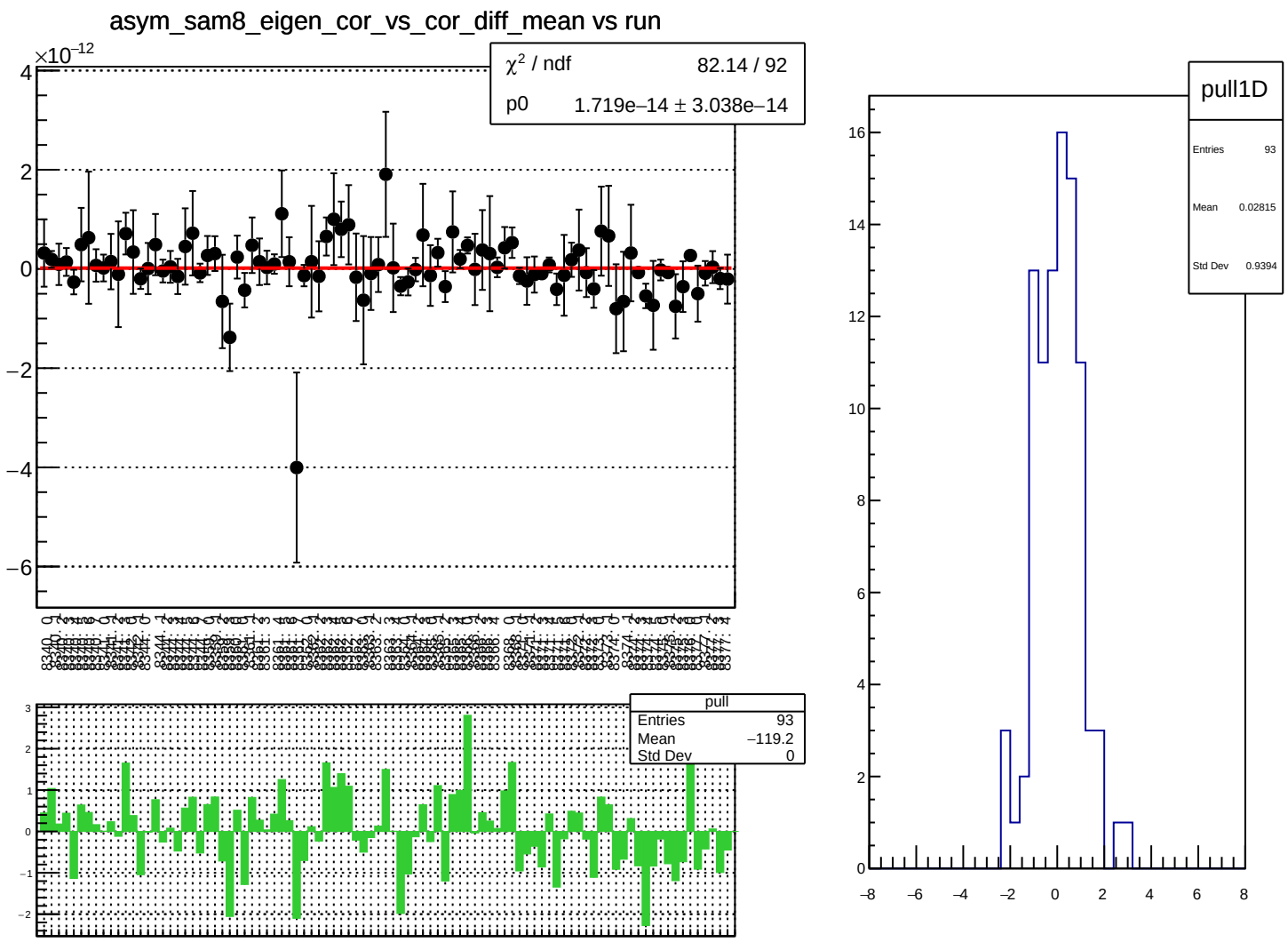

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.05 / 92
p0 −0.1979 ± 0.03266
pull
Entries 93
Mean 330.4
Std Dev 0
pull1D
Entries 93
Mean 0.003995
Std Dev 0.922

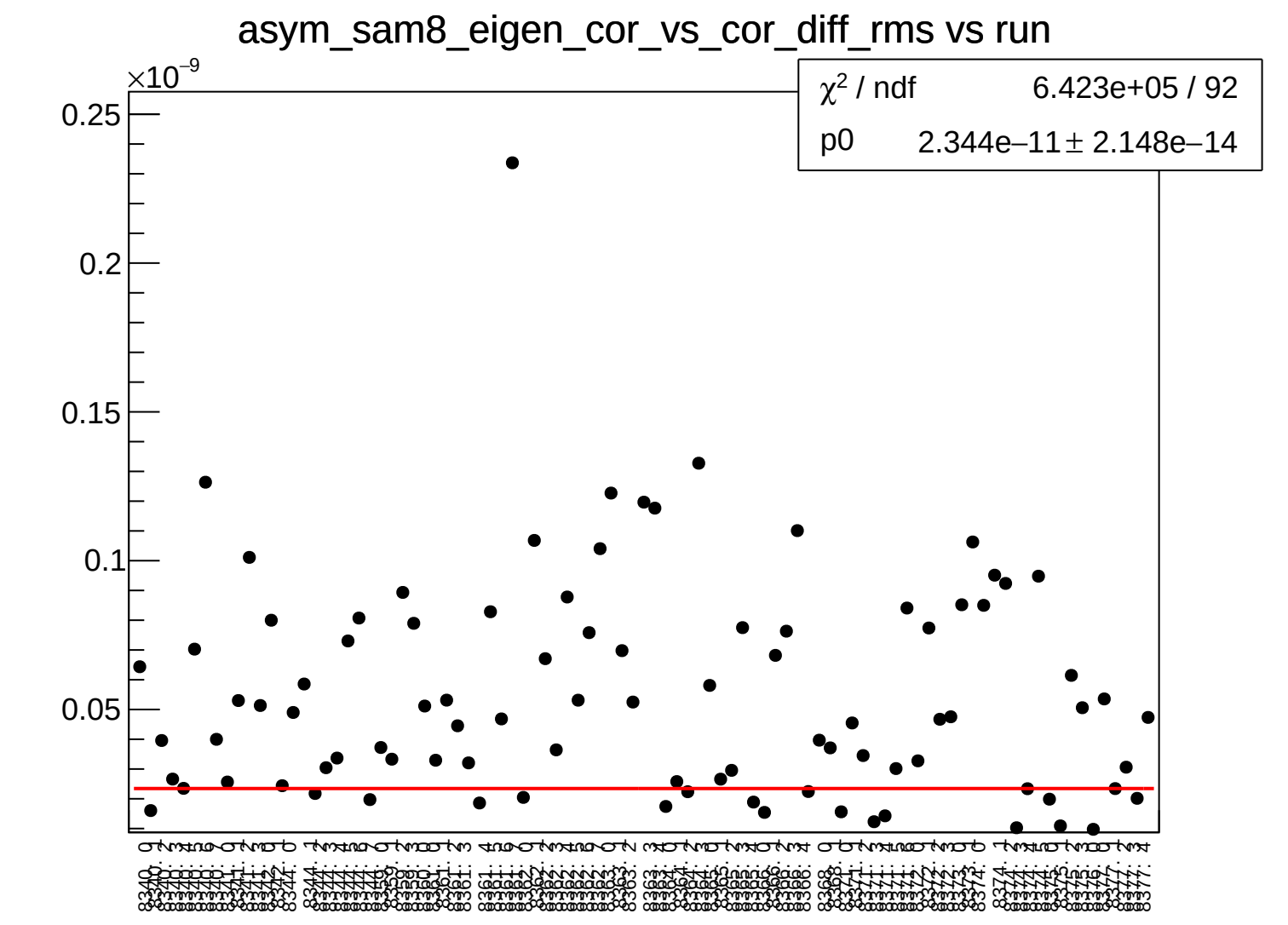

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.162e+04 / 92
p0 31.18 ± 0.0231
45
40
35
30
25

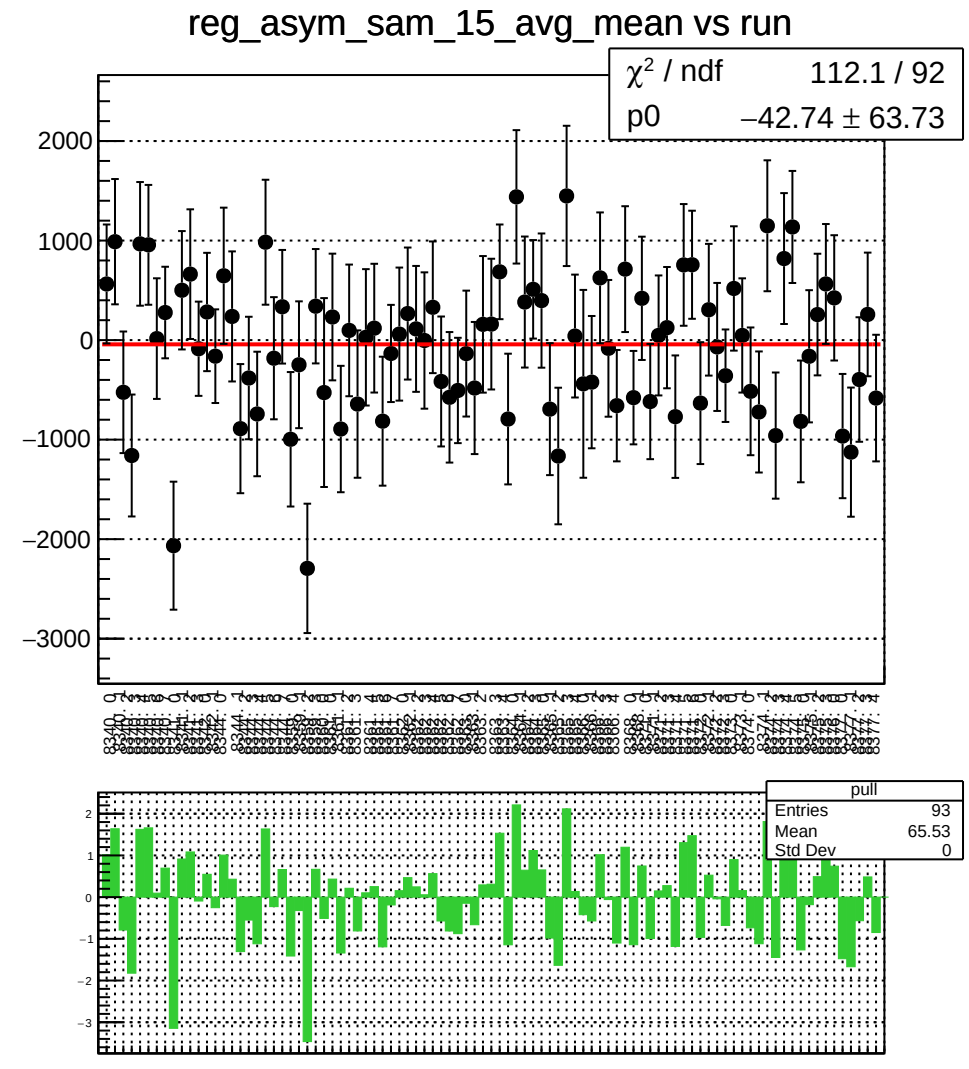

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.05 / 92
p0 −0.1979 ± 0.03266
pull
Entries 93
Mean 330.4
Std Dev 0

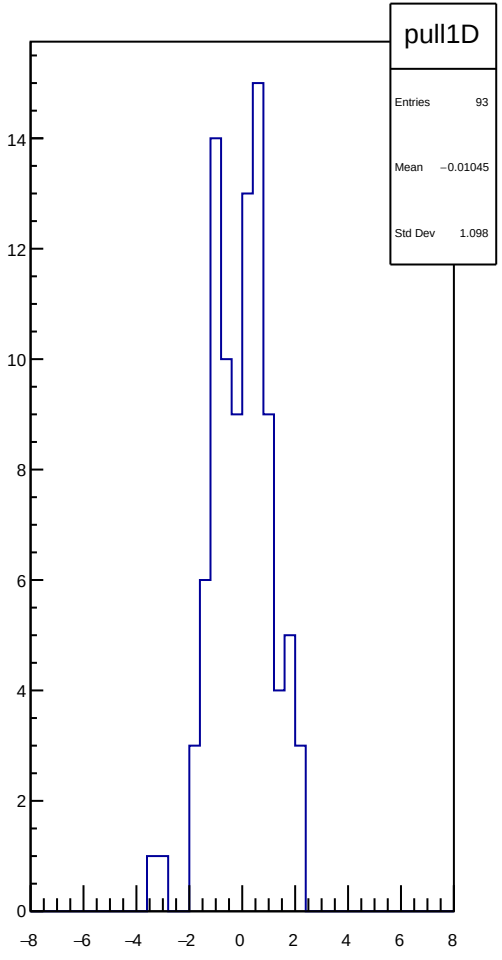

pull1D
Entries 93
Mean 0.003995
Std Dev 0.922

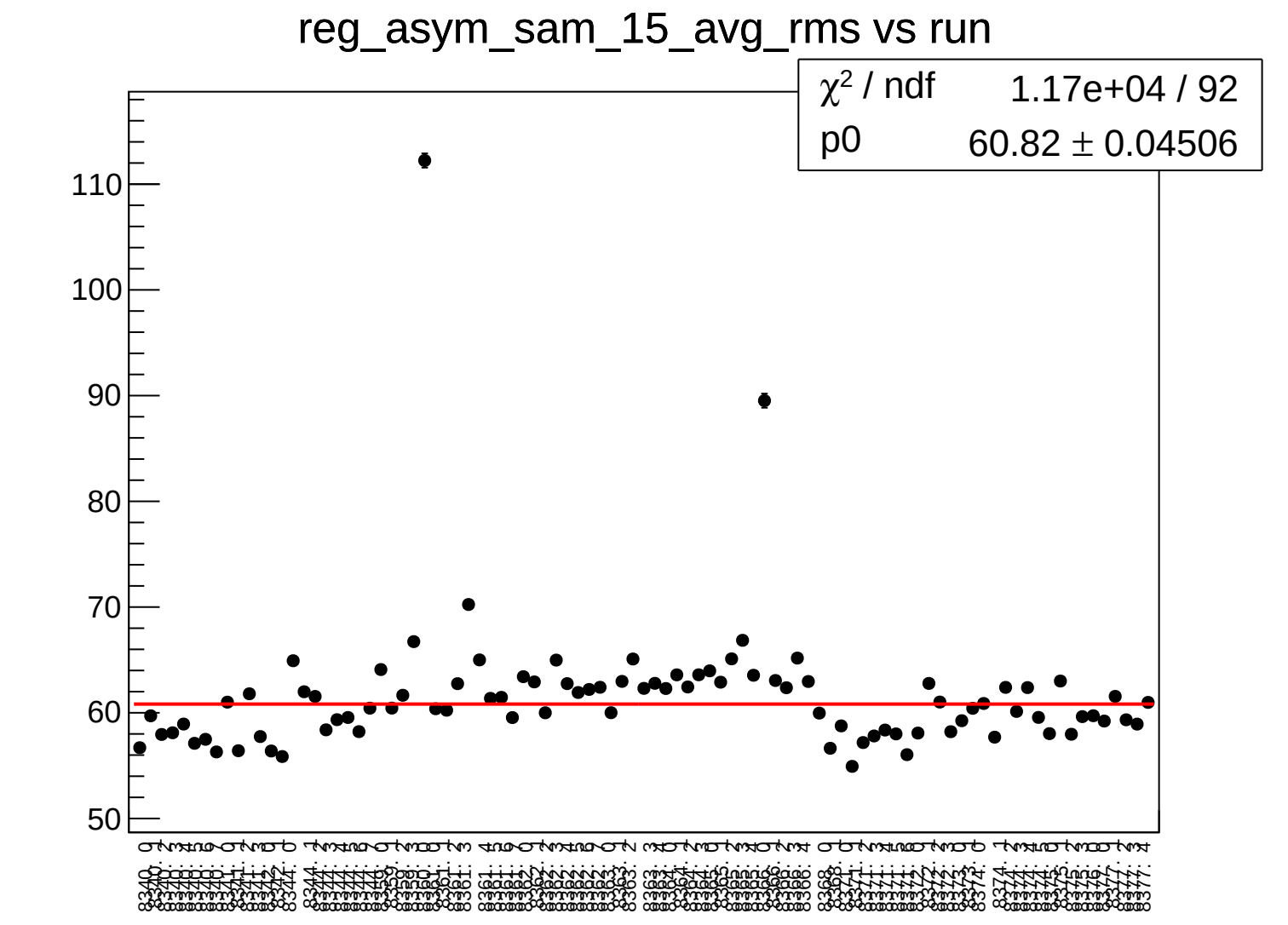

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.162e+04 / 92
p0 31.18 ± 0.0231
45
40
35
30
25

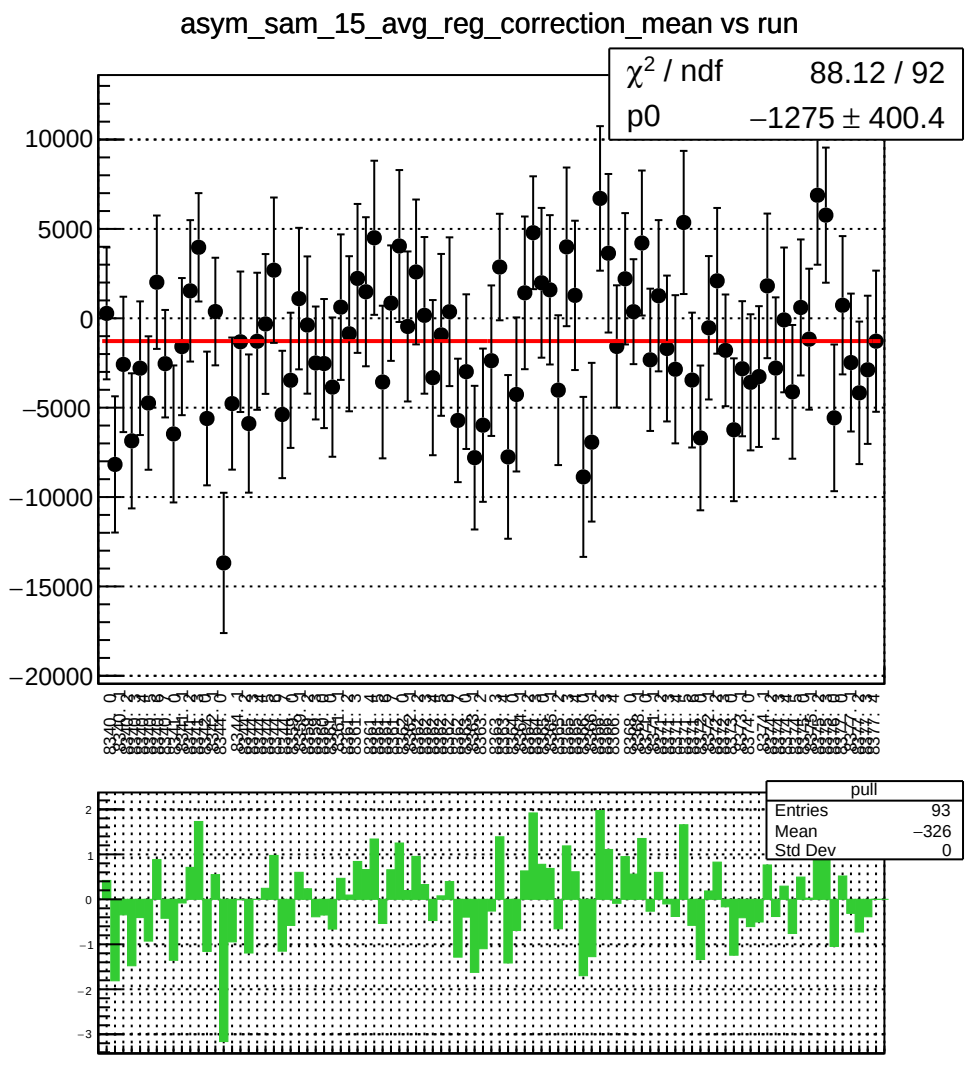

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.14 / 92
p0 1.719e−14 ± 3.038e−14
pull
Entries 93
Mean −119.2
Std Dev 0
pull1D
Entries 93
Mean 0.02815
Std Dev 0.9394

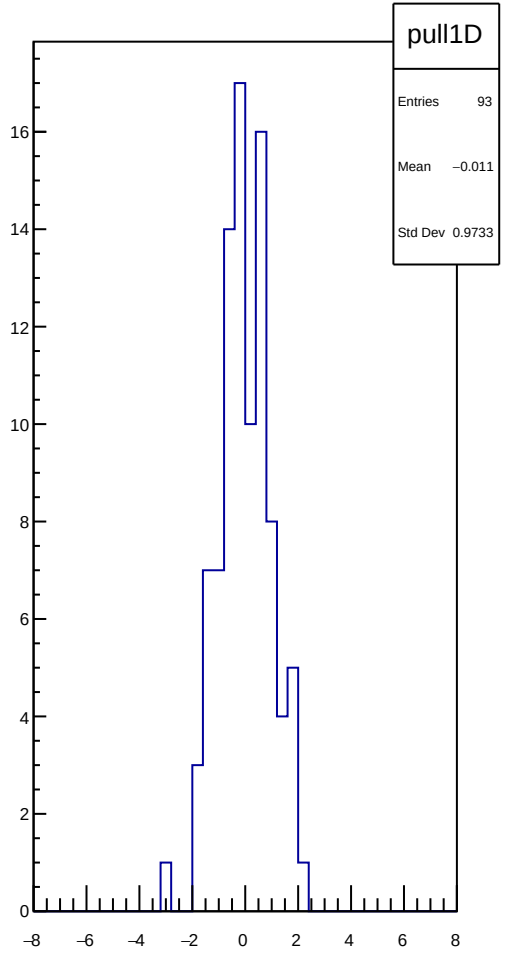

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.423e+05 / 92
p0 2.344e−11 ± 2.148e−14
0.25
0.2
0.15
0.1
0.05

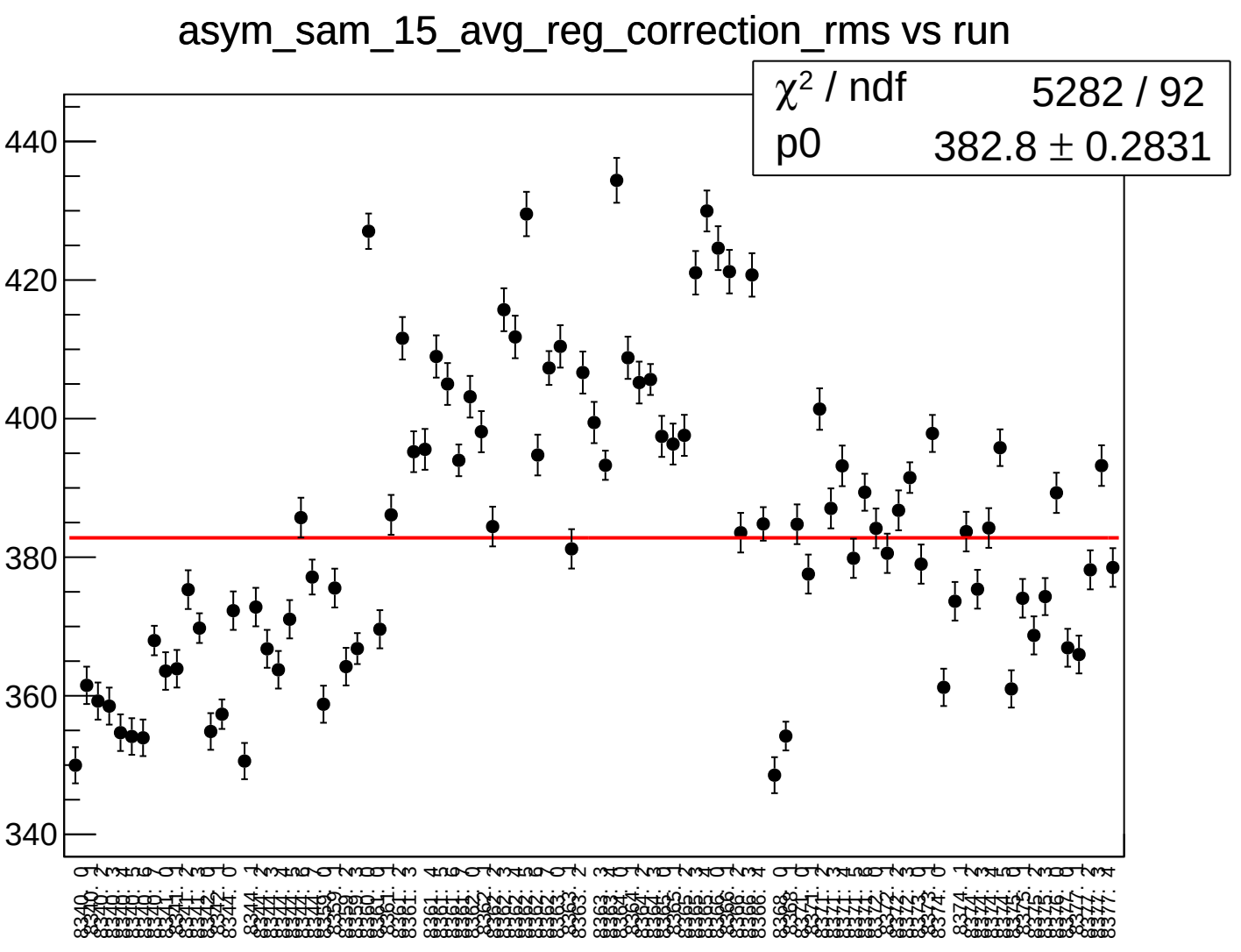

reg_asym_sam_15_avg_mean vs run
χ² / ndf 112.1 / 92
p0 −42.74 ± 63.73
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 65.53
Std Dev 0
2
1
0
−1
−2
−3

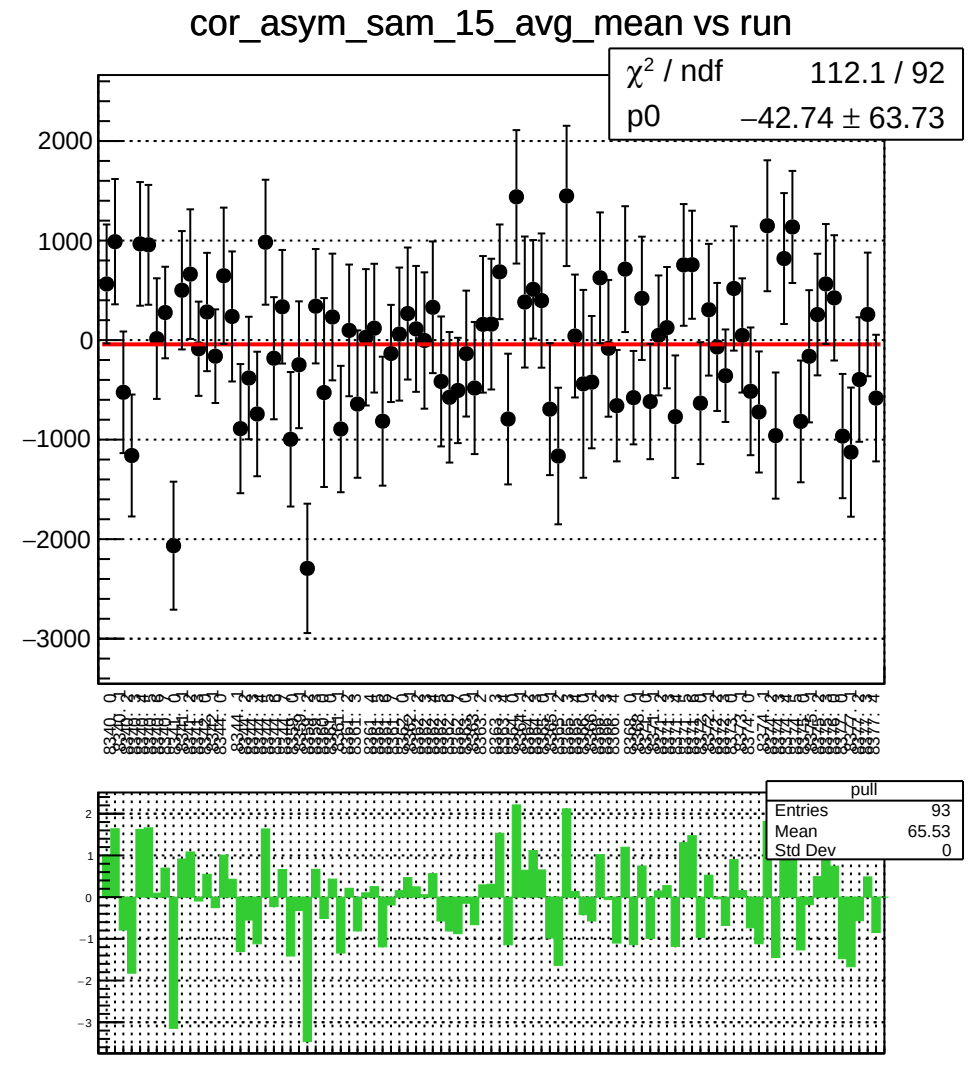

pull1D
Entries 93
Mean −0.01045
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

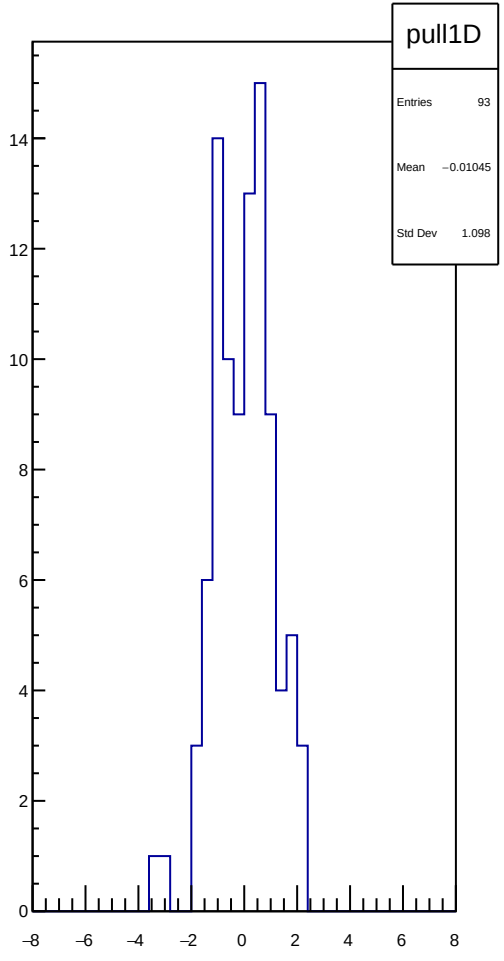

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.17e+04 / 92
p0 60.82 ± 0.04506
110
100
90
80
70
60
50

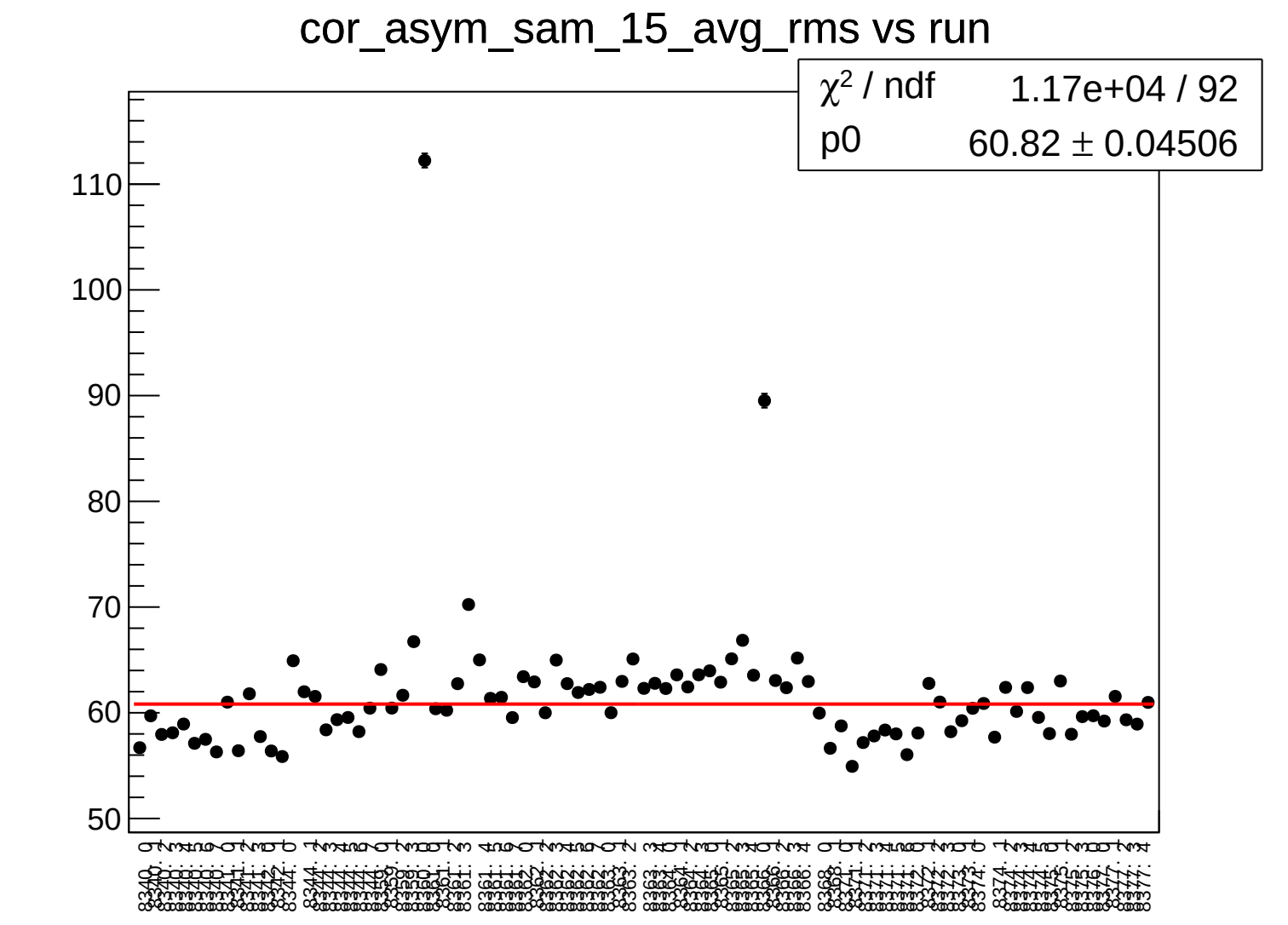

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 88.12 / 92
p0 −1275 ± 400.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −326
Std Dev 0
2
1
0
−1
−2
−3

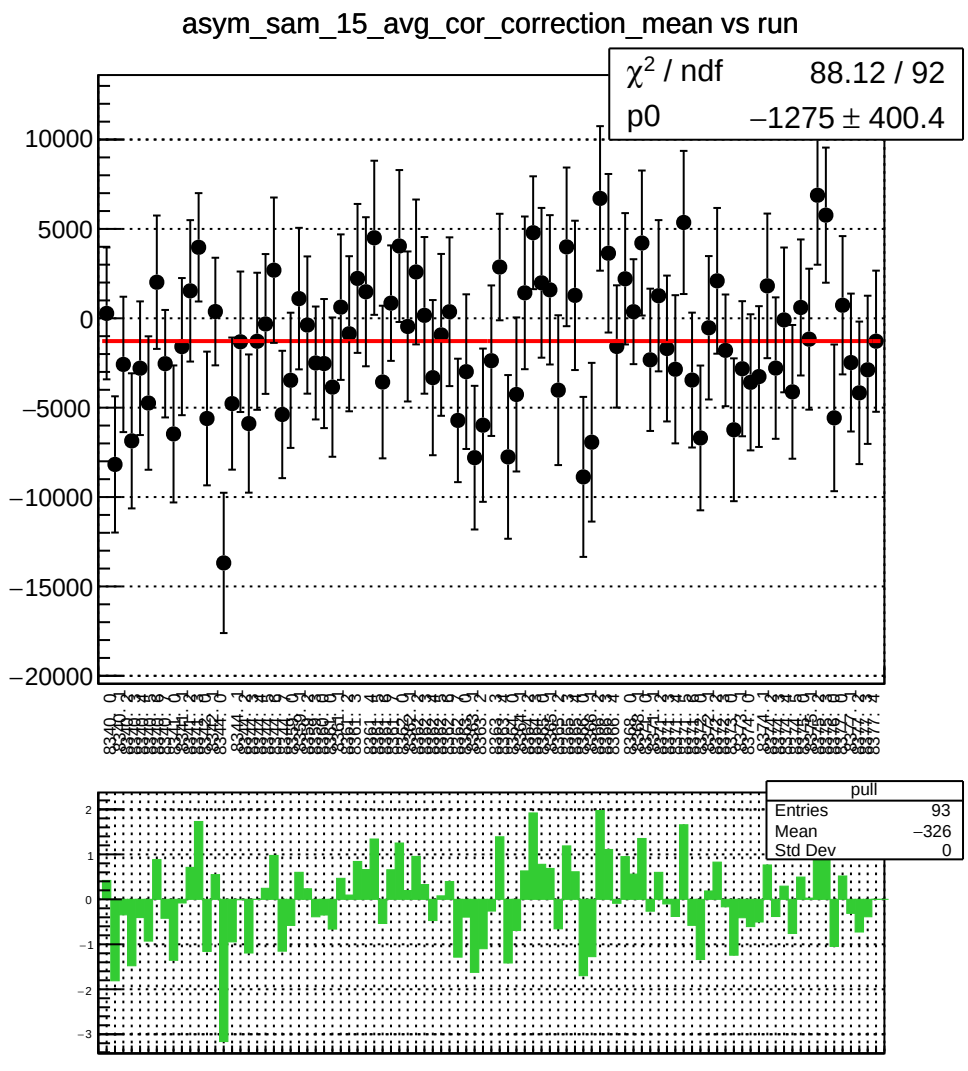

pull1D
Entries 93
Mean −0.011
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

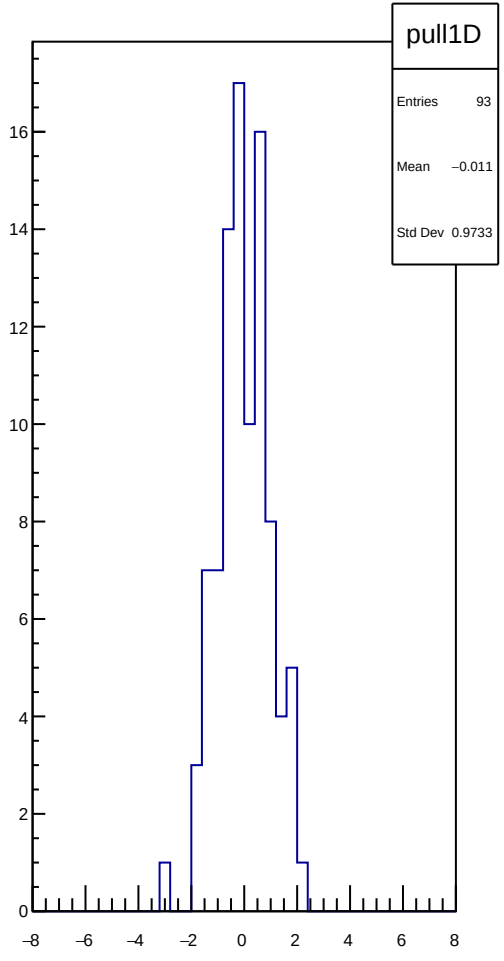

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 5282 / 92
p0 382.8 ± 0.2831
440
420
400
380
360
340

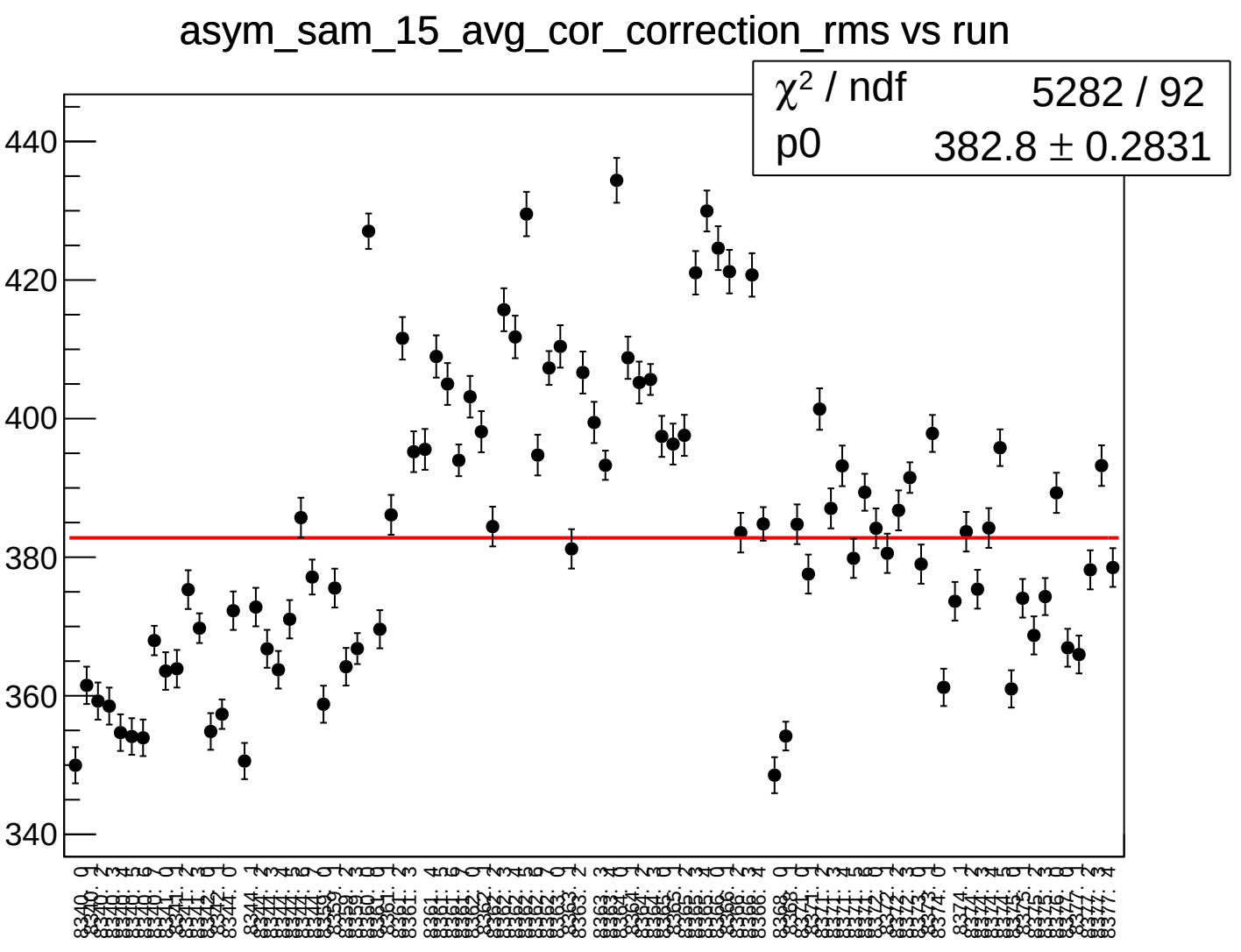

cor_asym_sam_15_avg_mean vs run
χ² / ndf 112.1 / 92
p0 −42.74 ± 63.73
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 65.53
Std Dev 0
2
1
0
−1
−2
−3

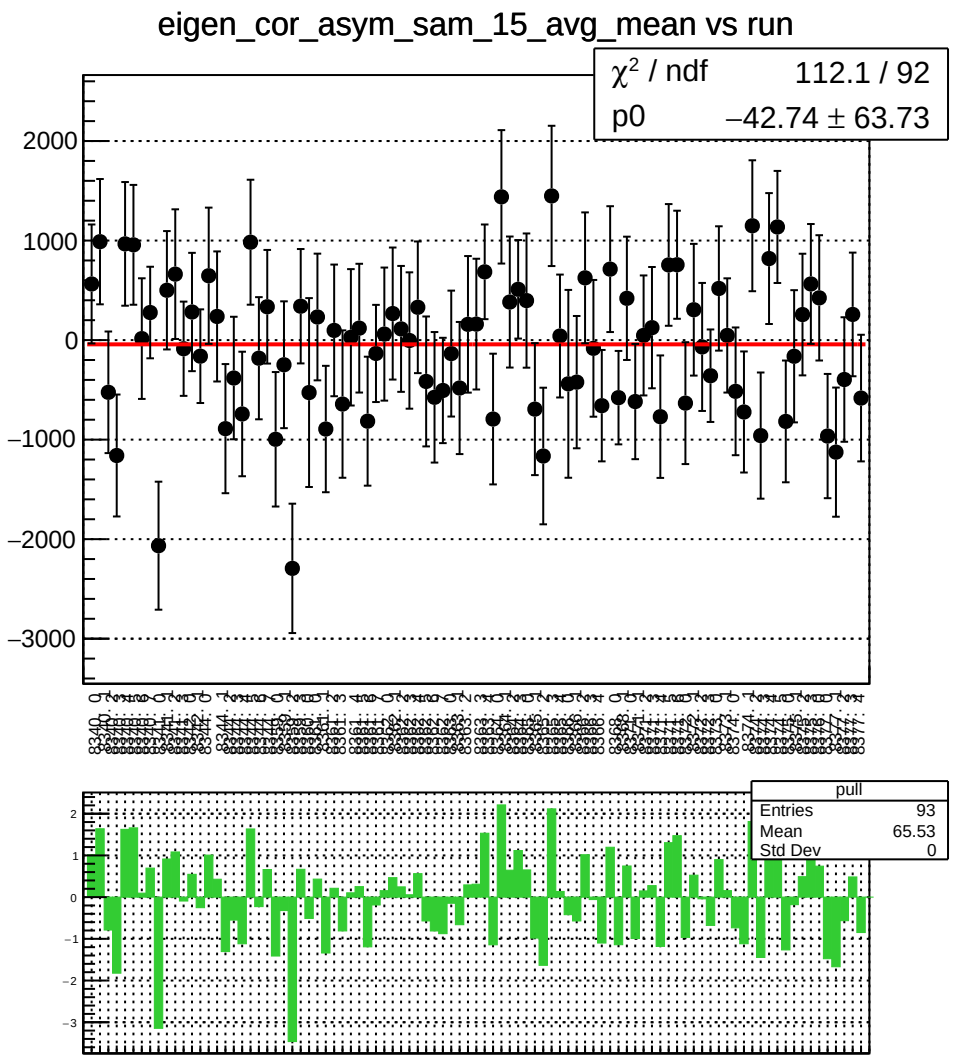

pull1D
Entries 93
Mean −0.01045
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

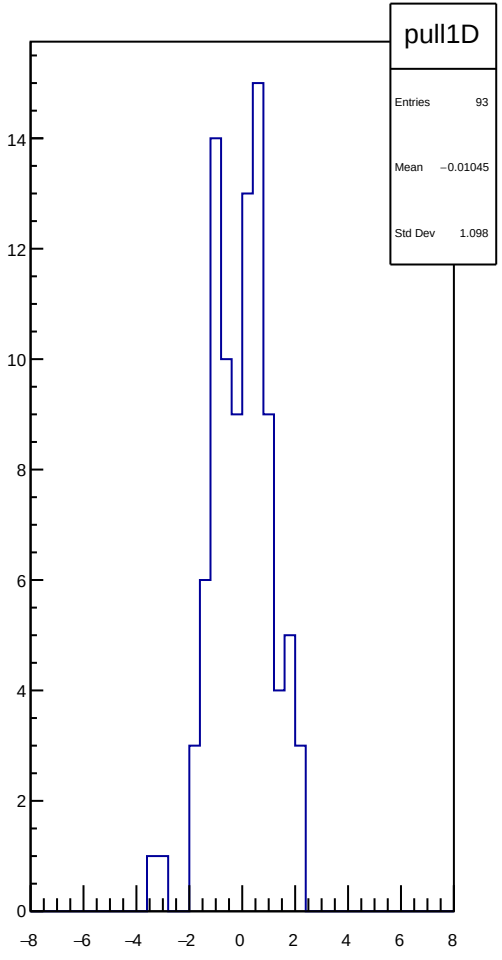

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1.17e+04 / 92
p0 60.82 ± 0.04506
110
100
90
80
70
60
50

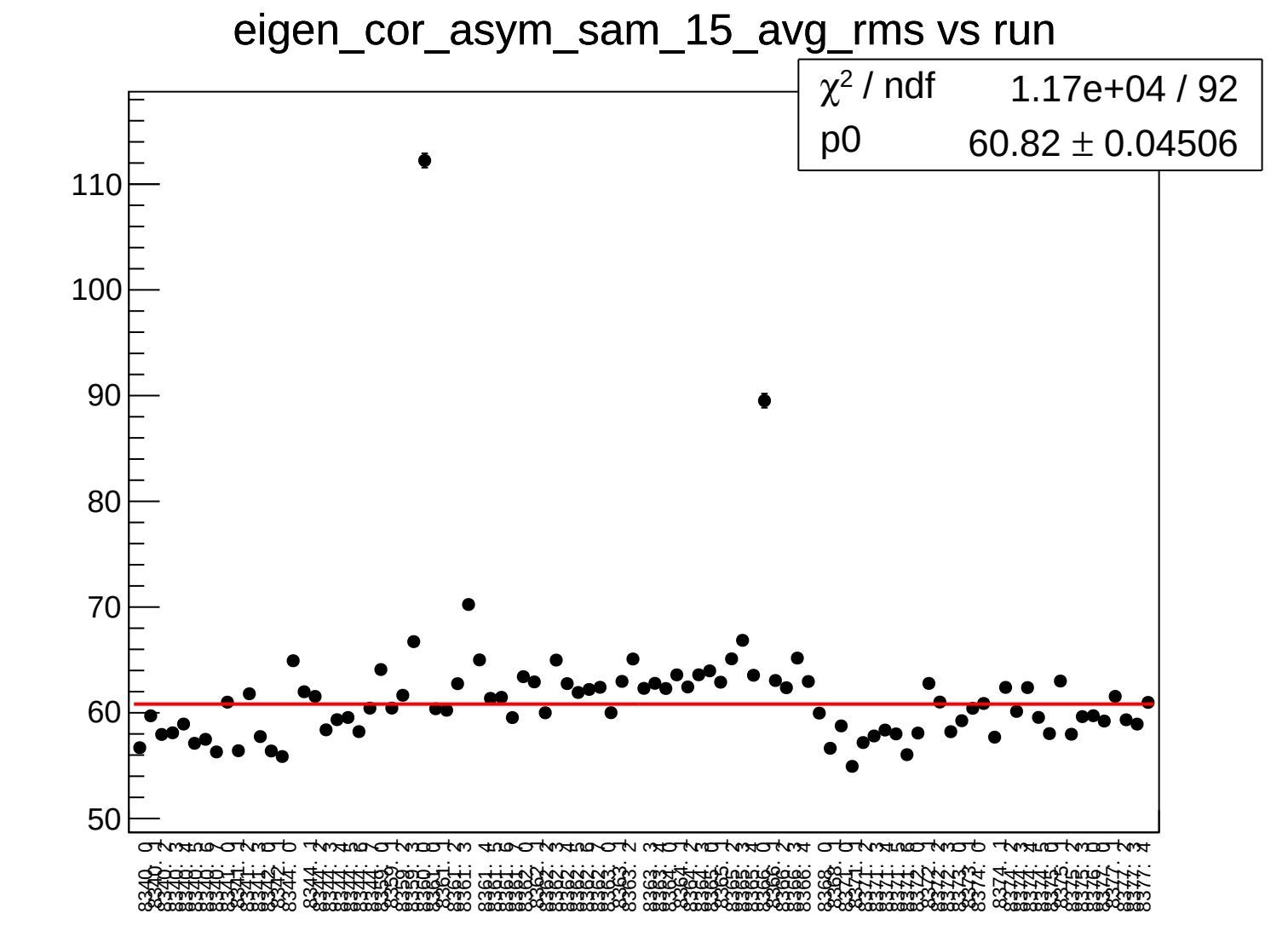

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 88.12 / 92
p0 −1275 ± 400.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −326
Std Dev 0
2
1
0
−1
−2
−3

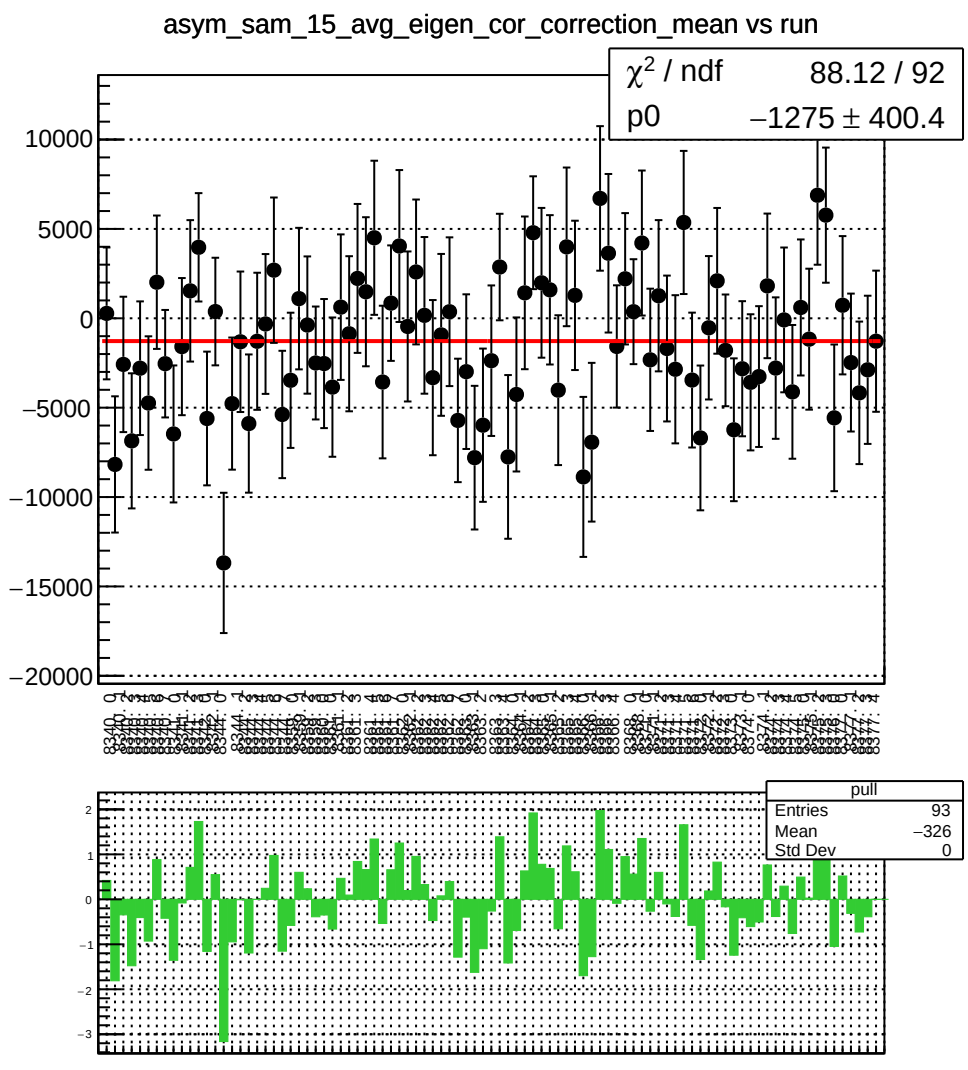

pull1D
Entries 93
Mean −0.011
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

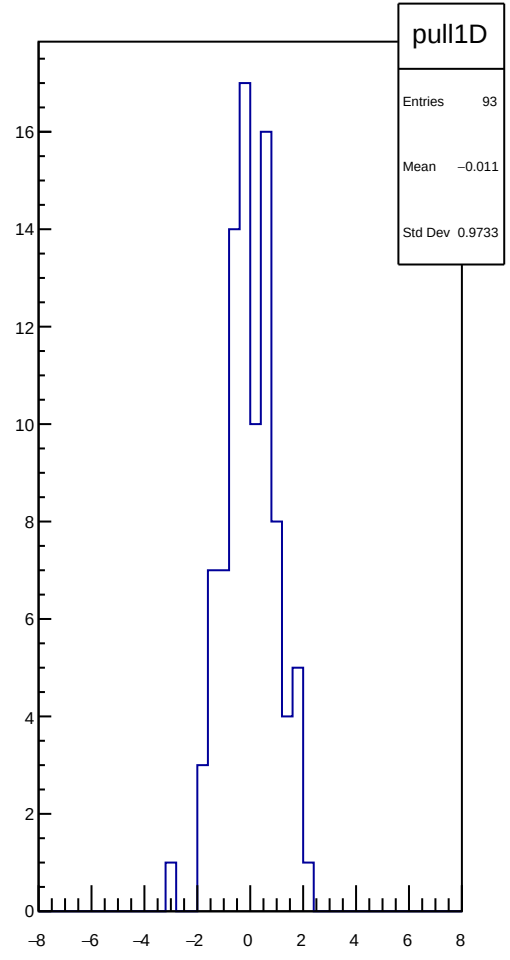

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 5282 / 92
p0 382.8 ± 0.2831
440
420
400
380
360
340

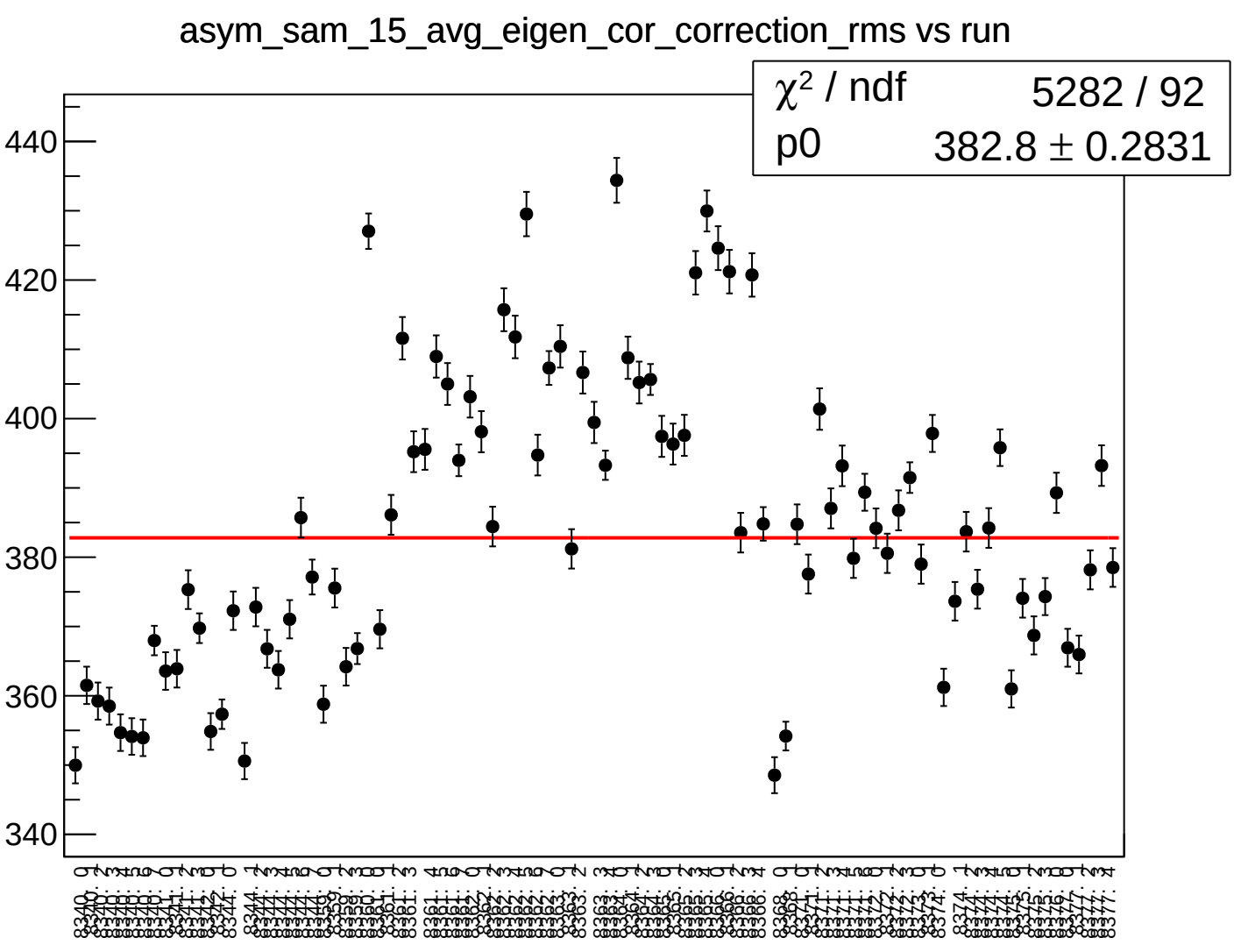

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 112.1 / 92
p0 −42.74 ± 63.73
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 65.53
Std Dev 0
2
1
0
−1
−2
−3

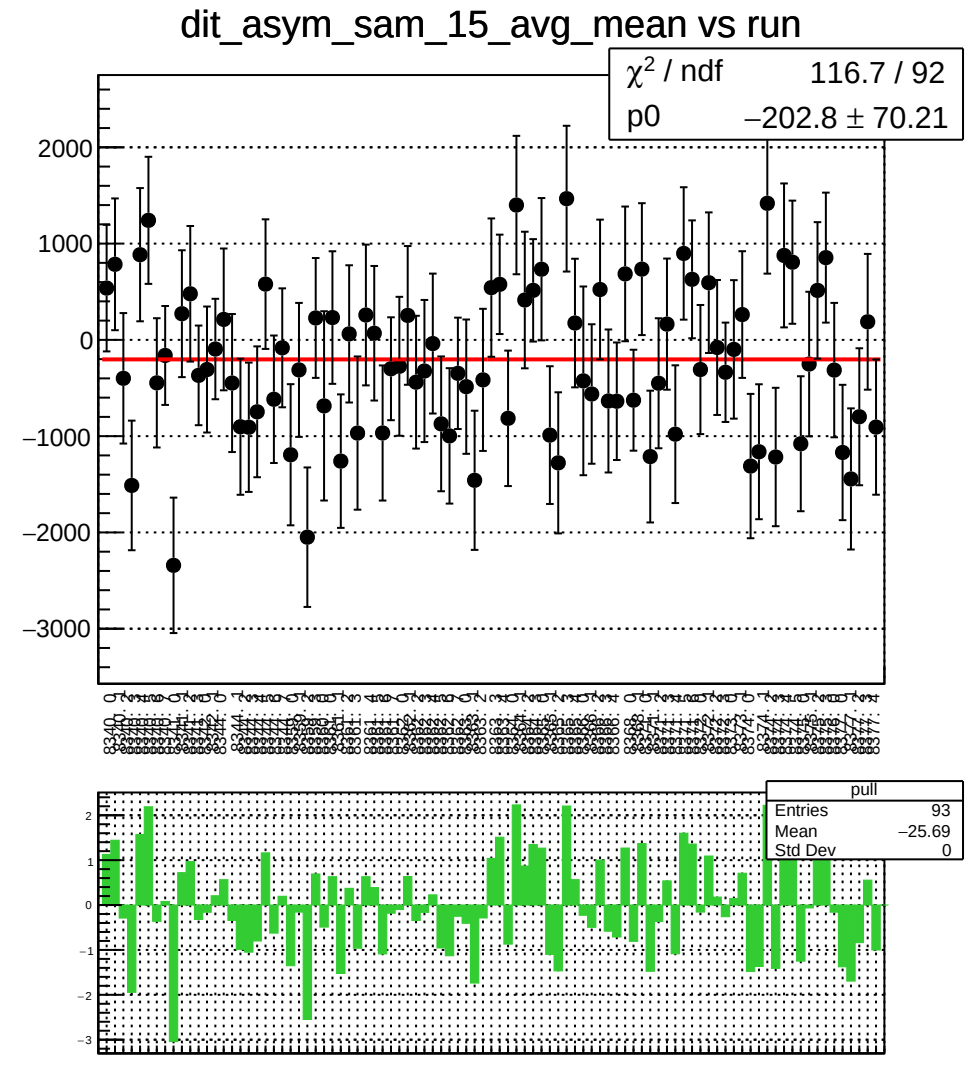

pull1D
Entries 93
Mean −0.01045
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

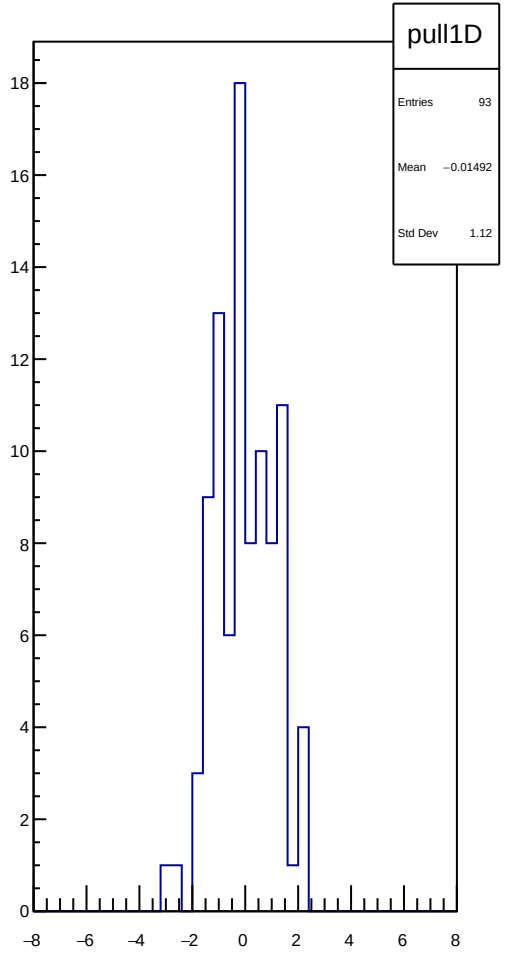

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 1.17e+04 / 92
p0 60.82 ± 0.04506
110
100
90
80
70
60
50

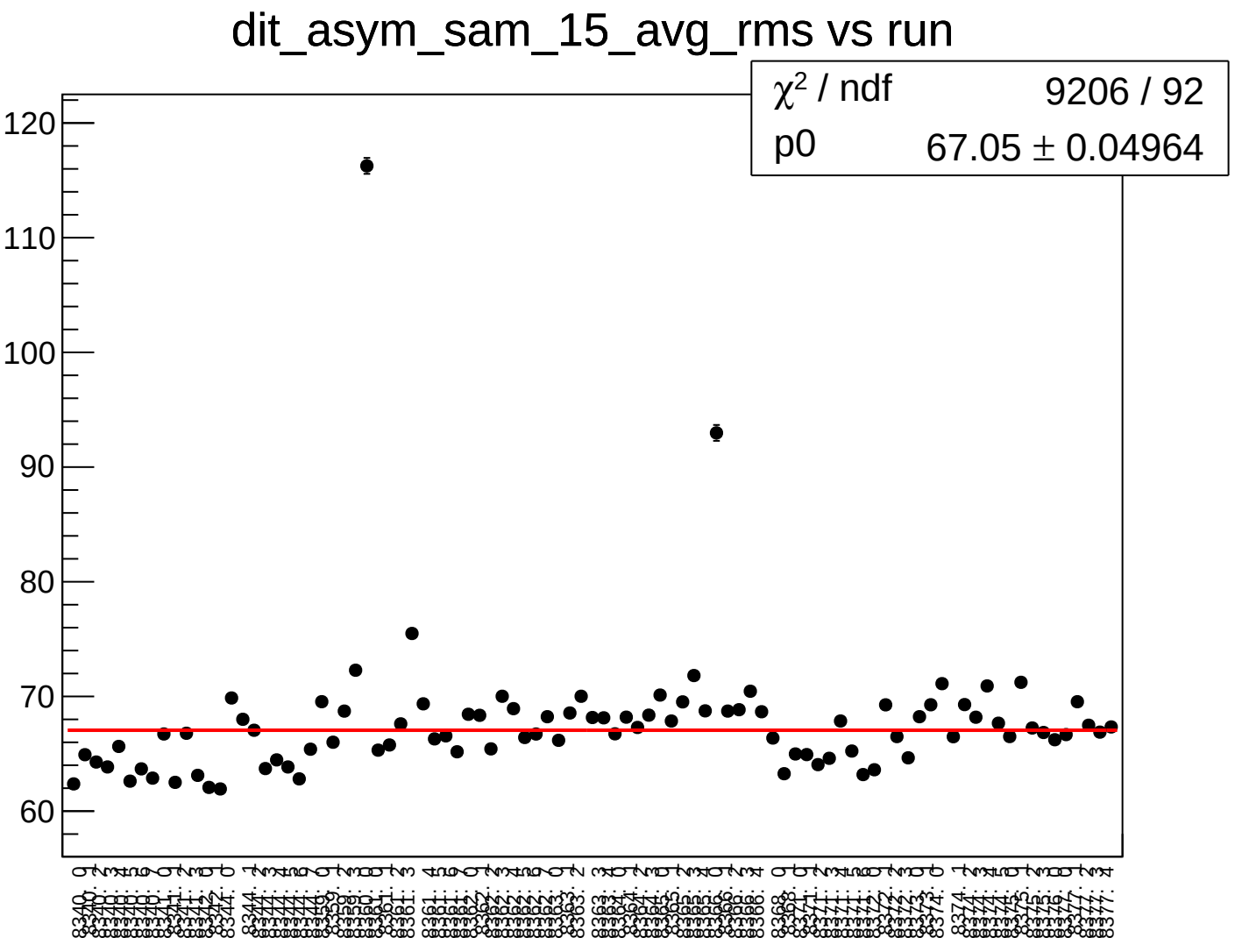

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.12 / 92
p0 −1275 ± 400.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −326
Std Dev 0
2
1
0
−1
−2
−3

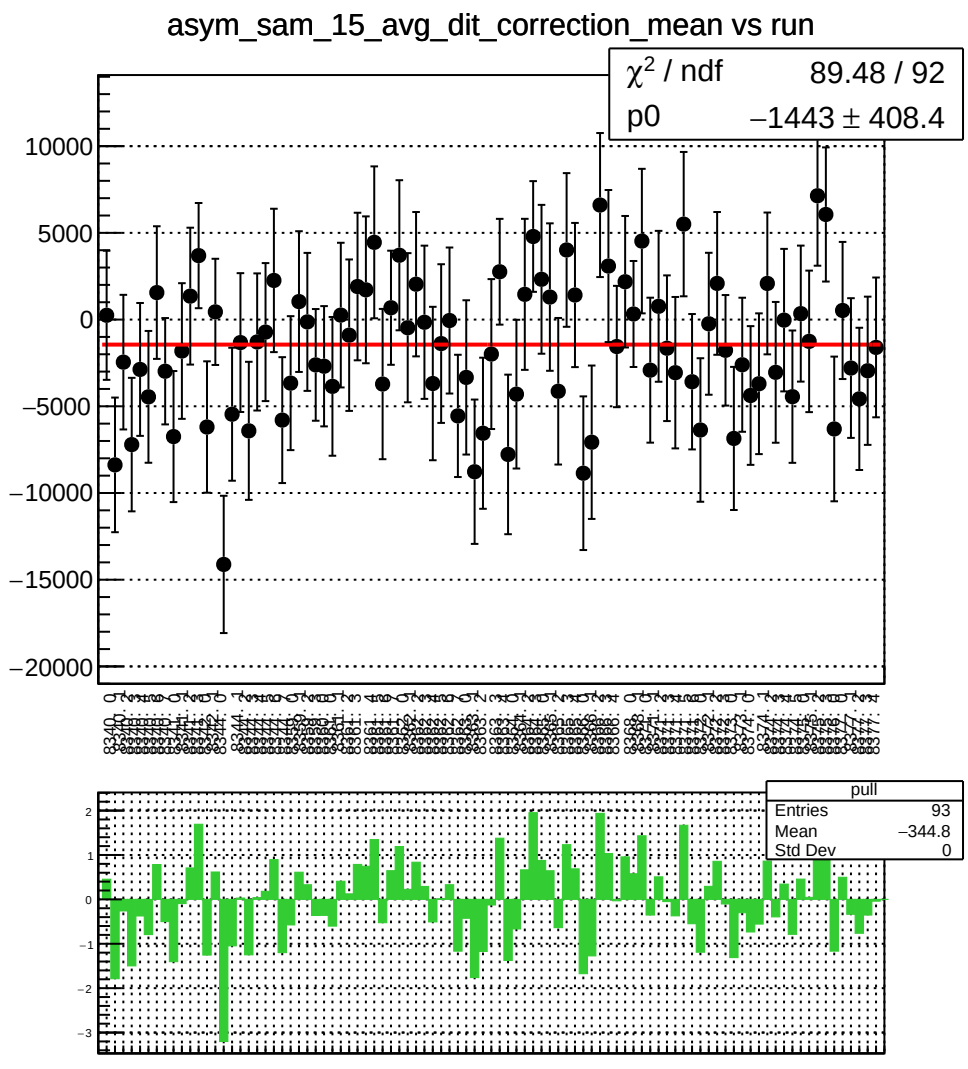

pull1D
Entries 93
Mean −0.011
Std Dev 0.9733
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

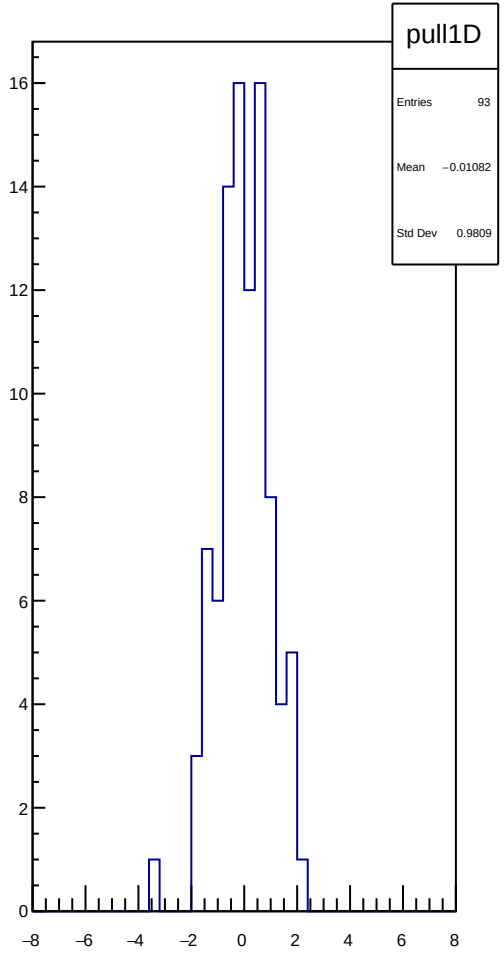

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 5282 / 92
p0 382.8 ± 0.2831
440
420
400
380
360
340

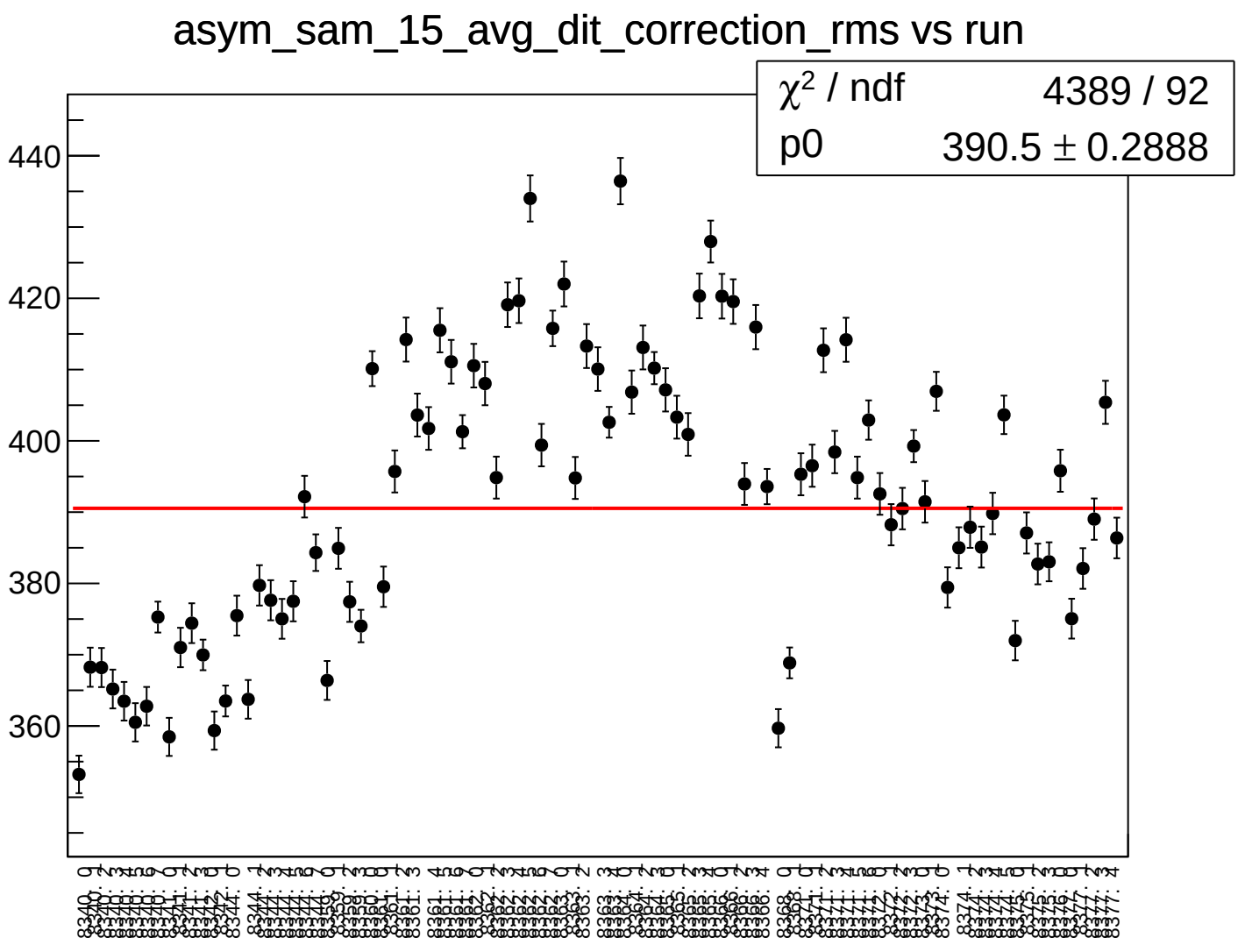

dit_asym_sam_15_avg_mean vs run
χ² / ndf 116.7 / 92
p0 −202.8 ± 70.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −25.69
Std Dev 0
2
1
0
−1
−2
−3

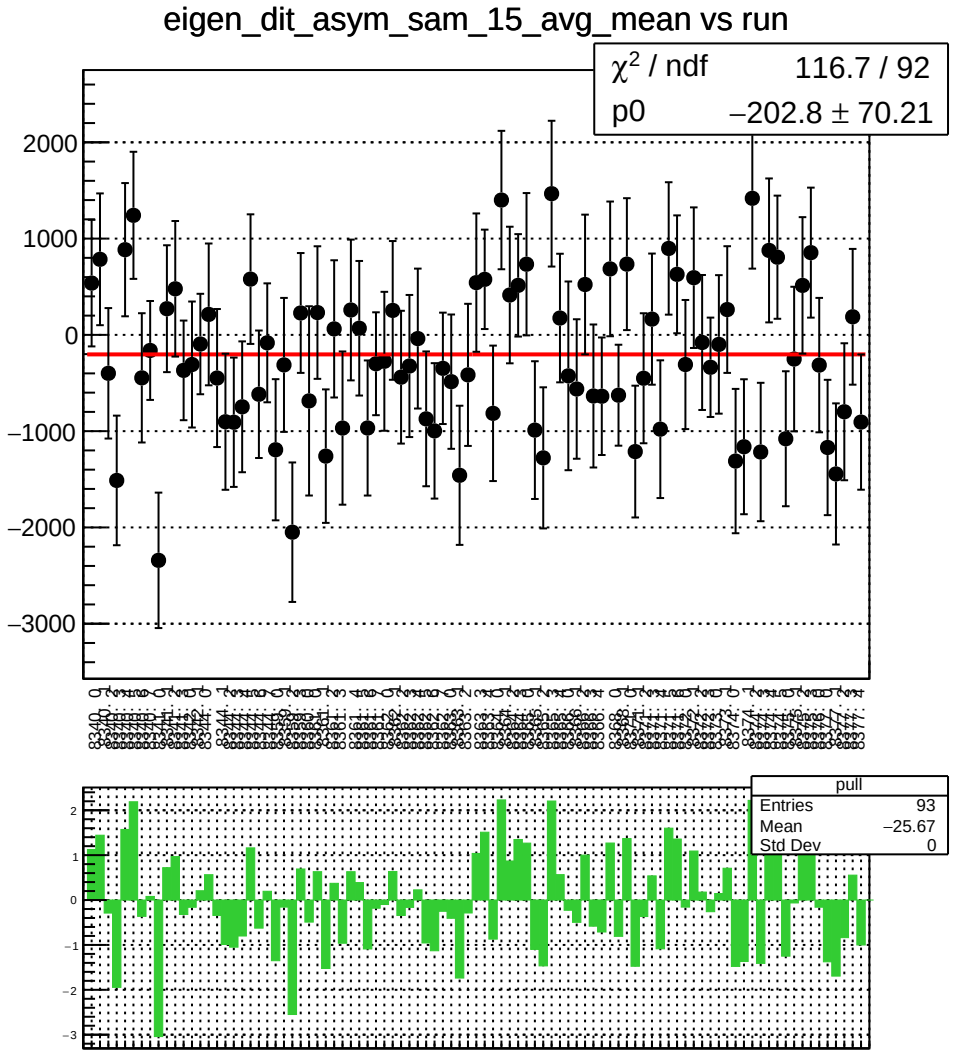

pull1D
Entries 93
Mean −0.01492
Std Dev 1.12
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

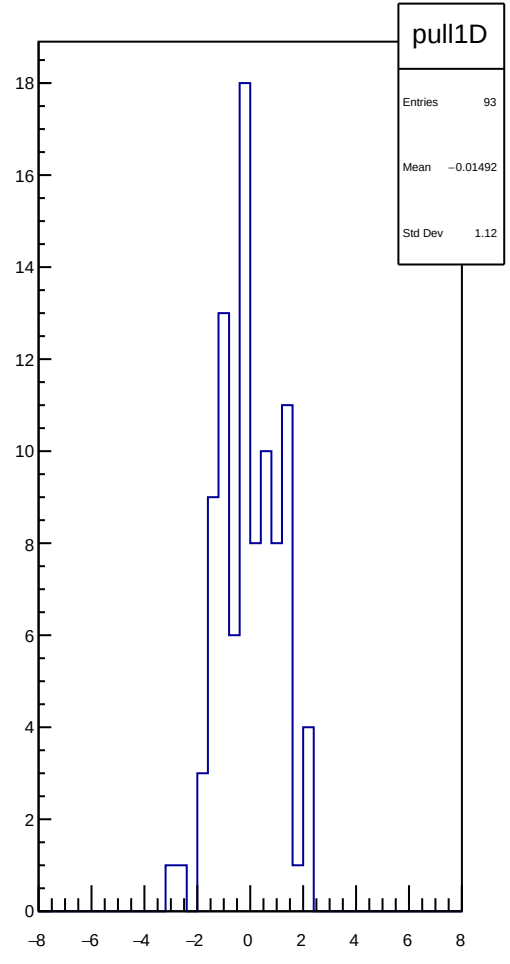

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 9206 / 92
p0 67.05 ± 0.04964
120
110
100
90
80
70
60

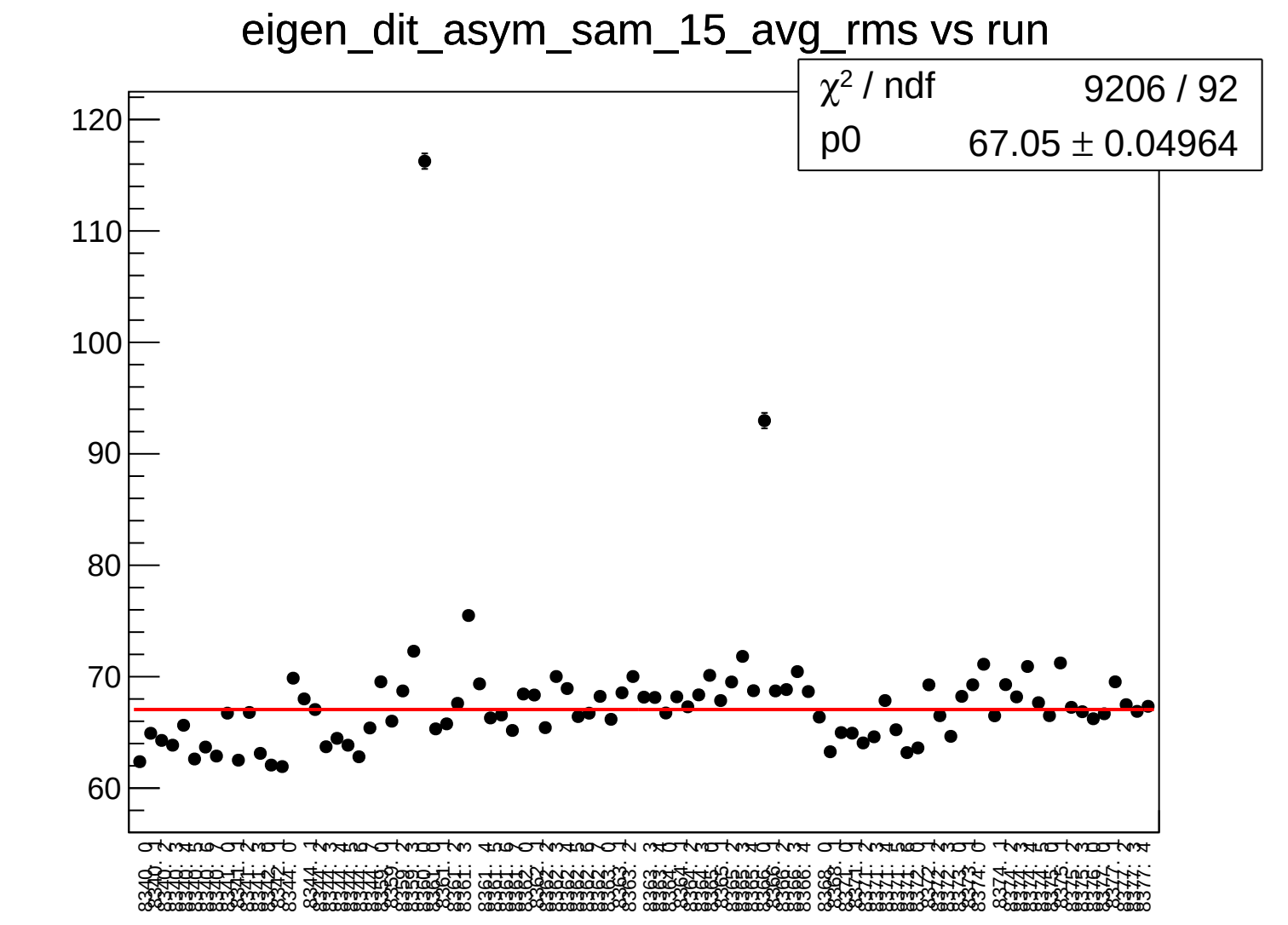

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 89.48 / 92
p0 −1443 ± 408.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −344.8
Std Dev 0
2
1
0
−1
−2
−3

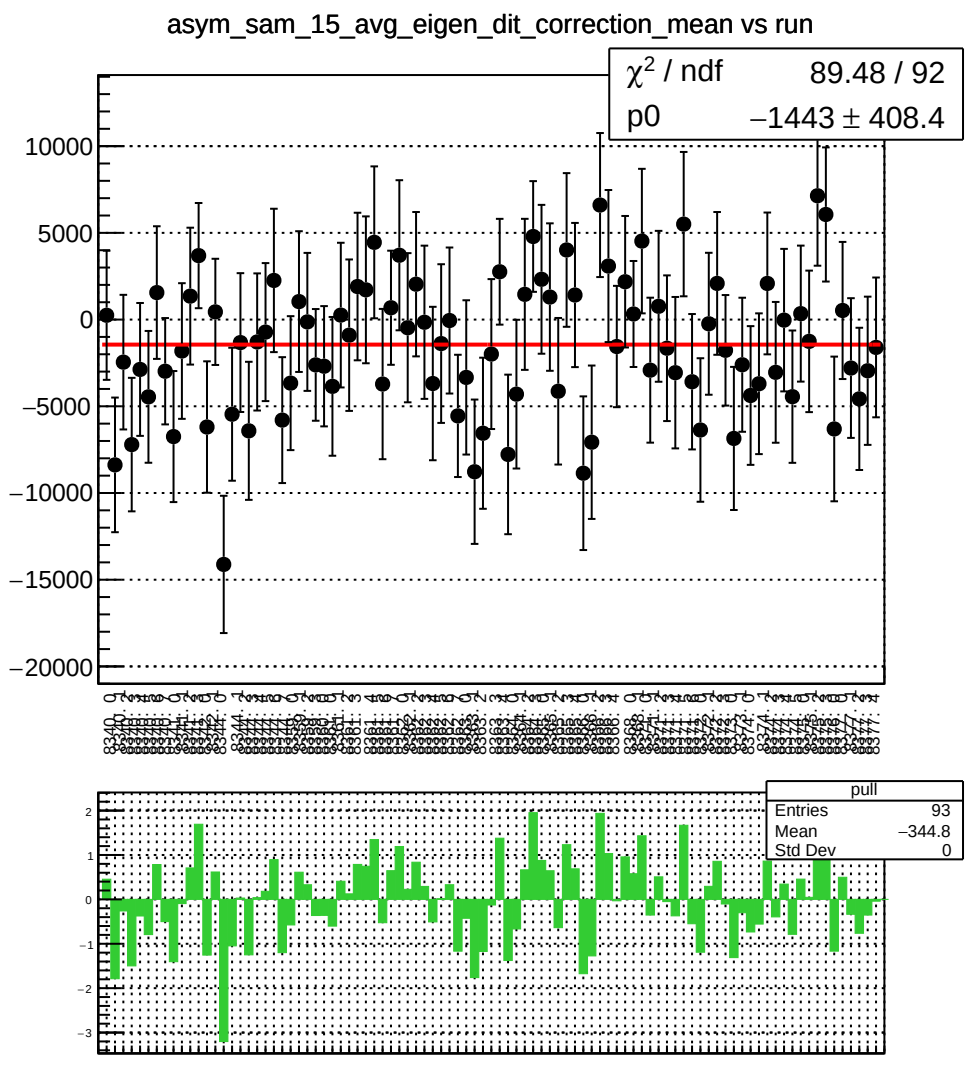

pull1D
Entries 93
Mean −0.01082
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

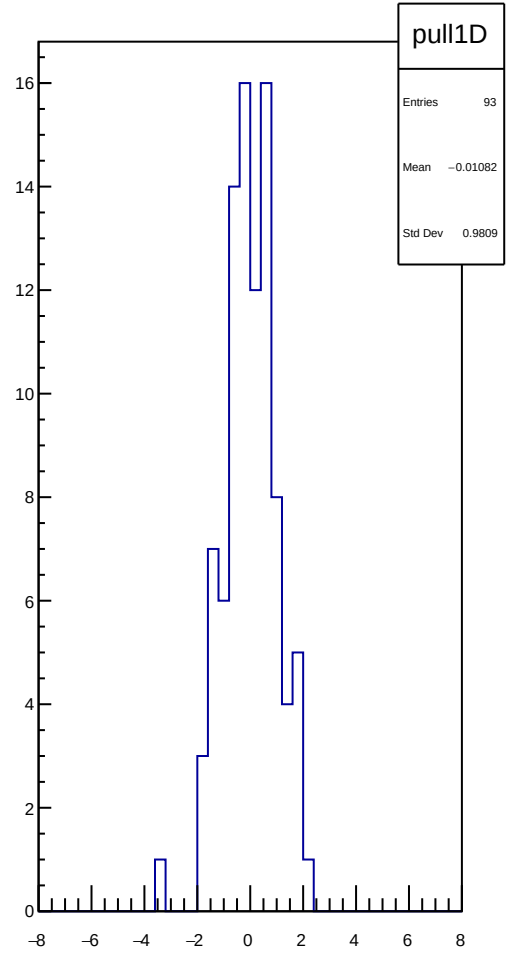

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 4389 / 92
p0 390.5 ± 0.2888
440
420
400
380
360

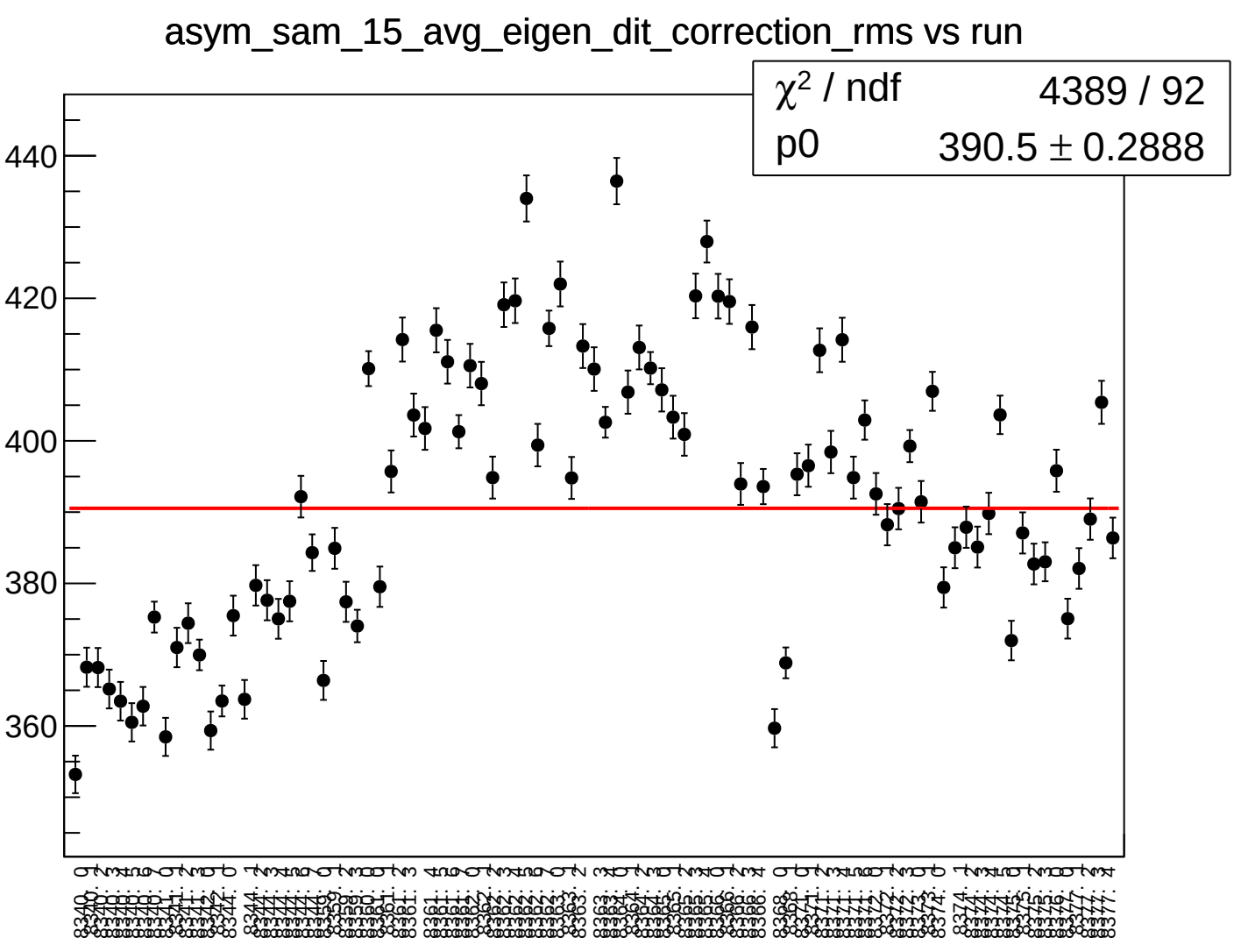

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 116.7 / 92
p0 −202.8 ± 70.21
pull
Entries 93
Mean −25.67
Std Dev 0

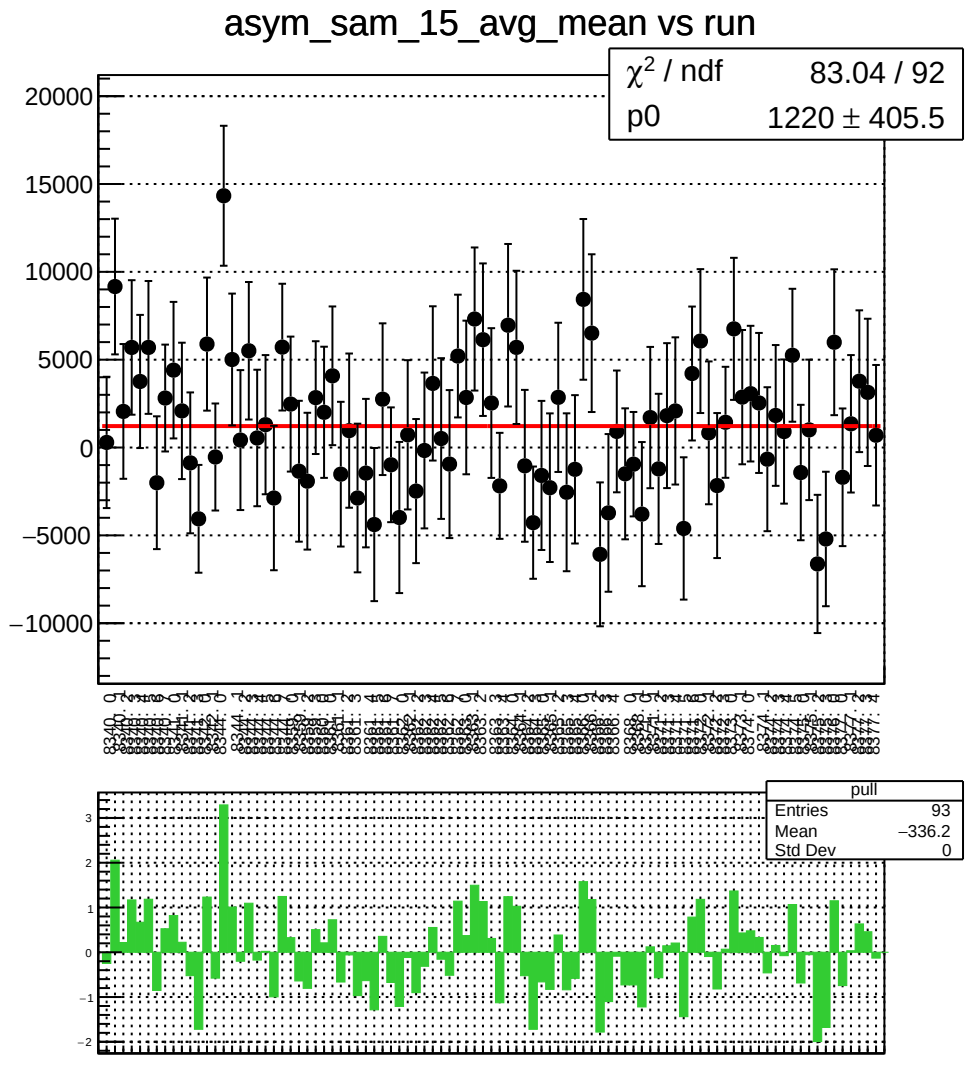

pull1D
Entries 93
Mean −0.01492
Std Dev 1.12

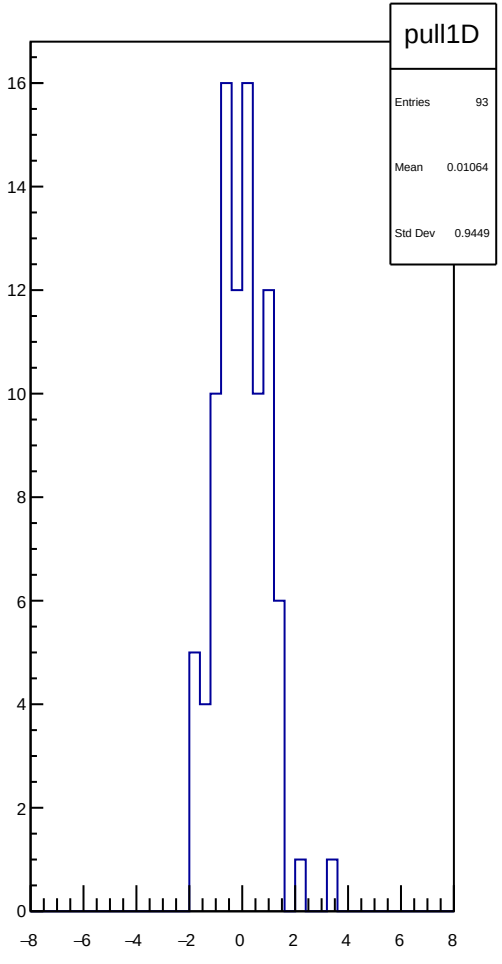

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 9206 / 92
p0 67.05 ± 0.04964
120
110
100
90
80
70
60

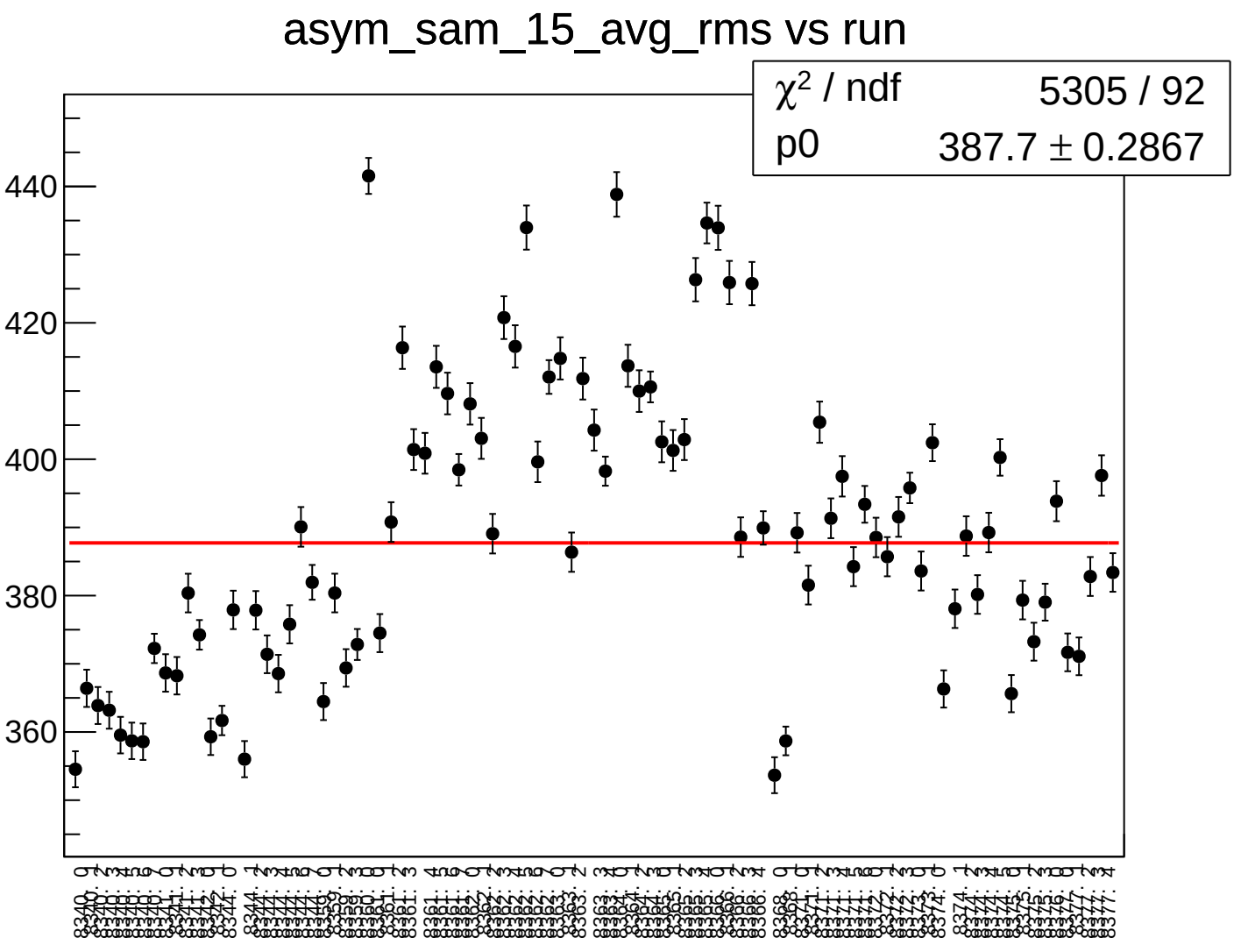

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.48 / 92
p0 −1443 ± 408.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −344.8
Std Dev 0
2
1
0
−1
−2
−3

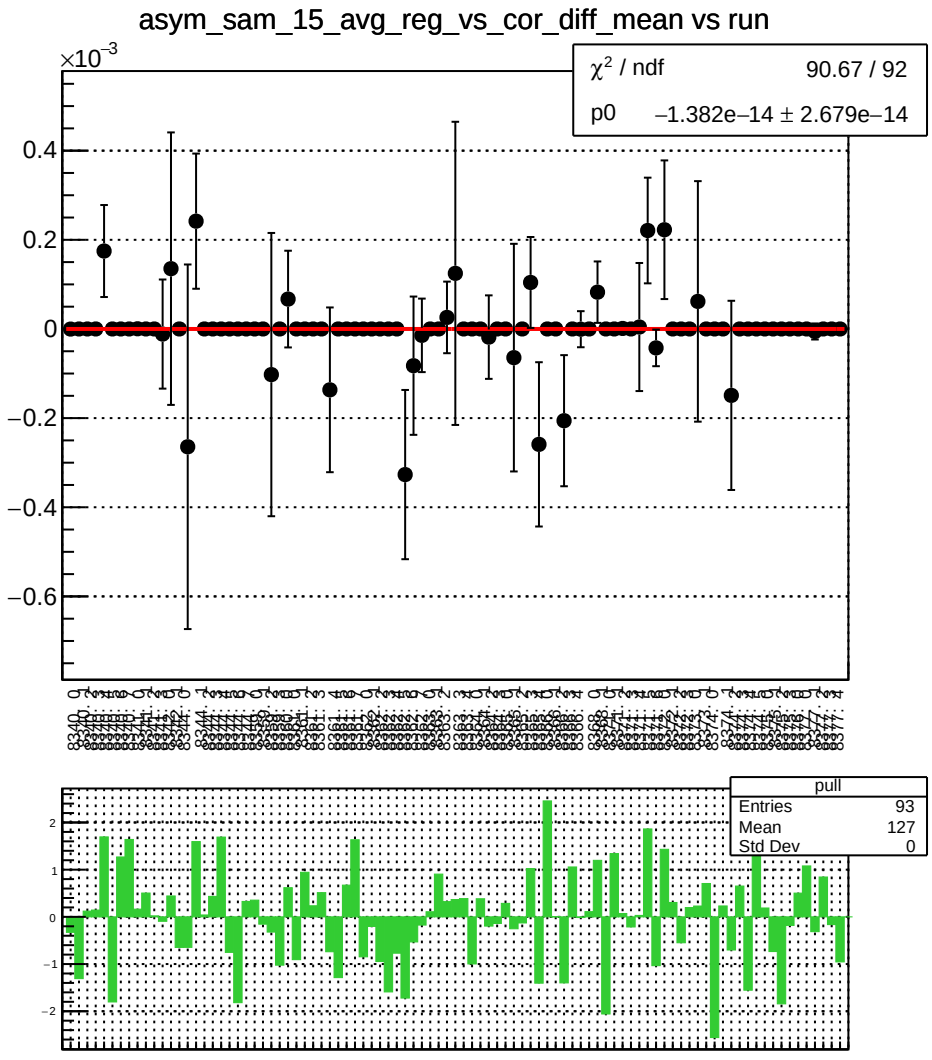

pull1D
Entries 93
Mean −0.01082
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

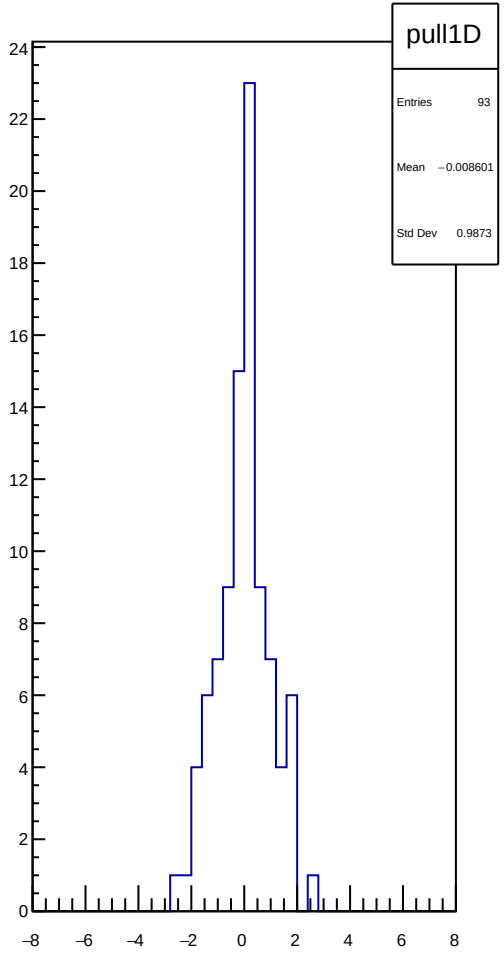

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 4389 / 92
p0 390.5 ± 0.2888
440
420
400
380
360

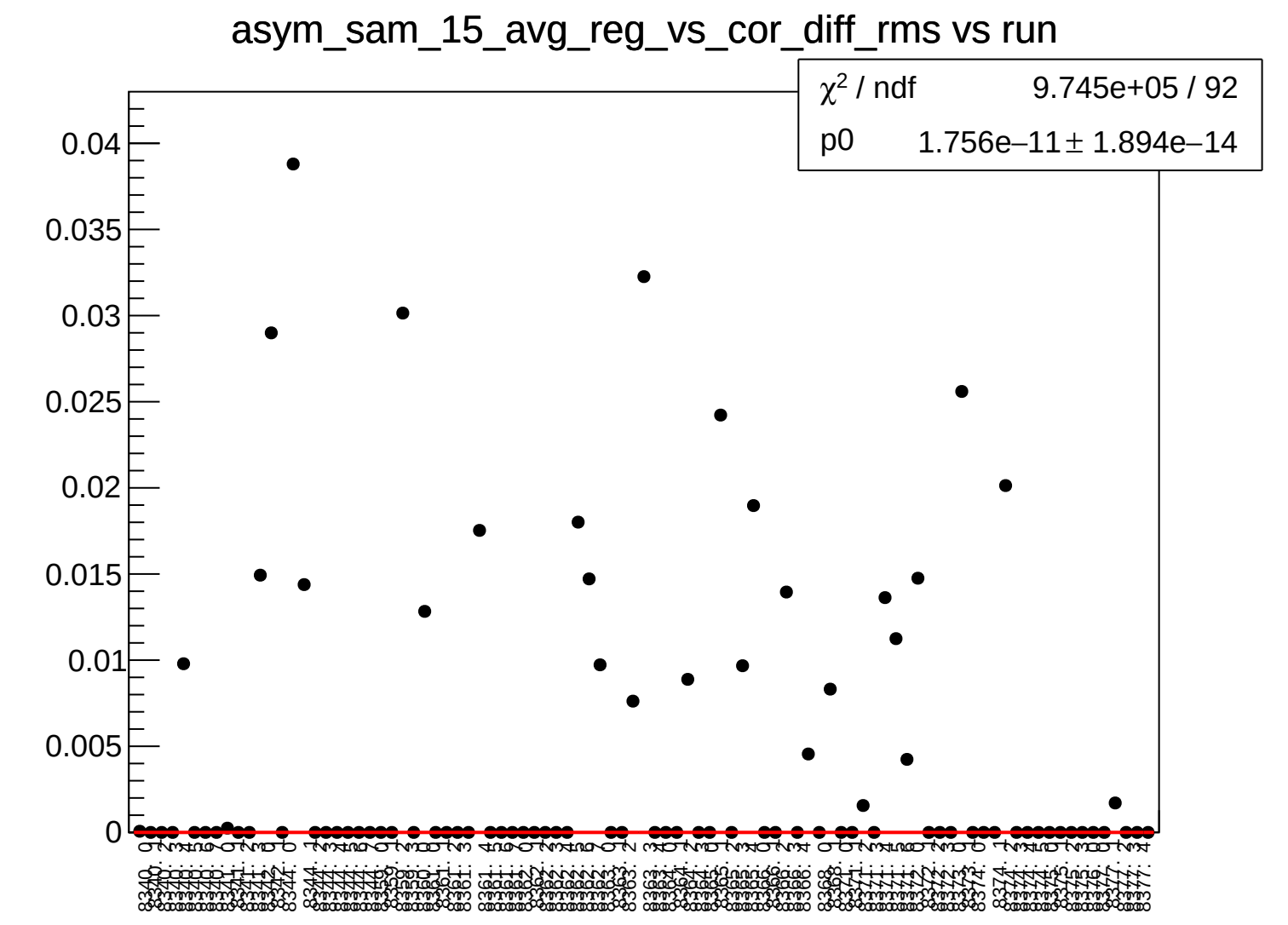

asym_sam_15_avg_mean vs run
χ² / ndf 83.04 / 92
p0 1220 ± 405.5
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −336.2
Std Dev 0
3
2
1
0
−1
−2

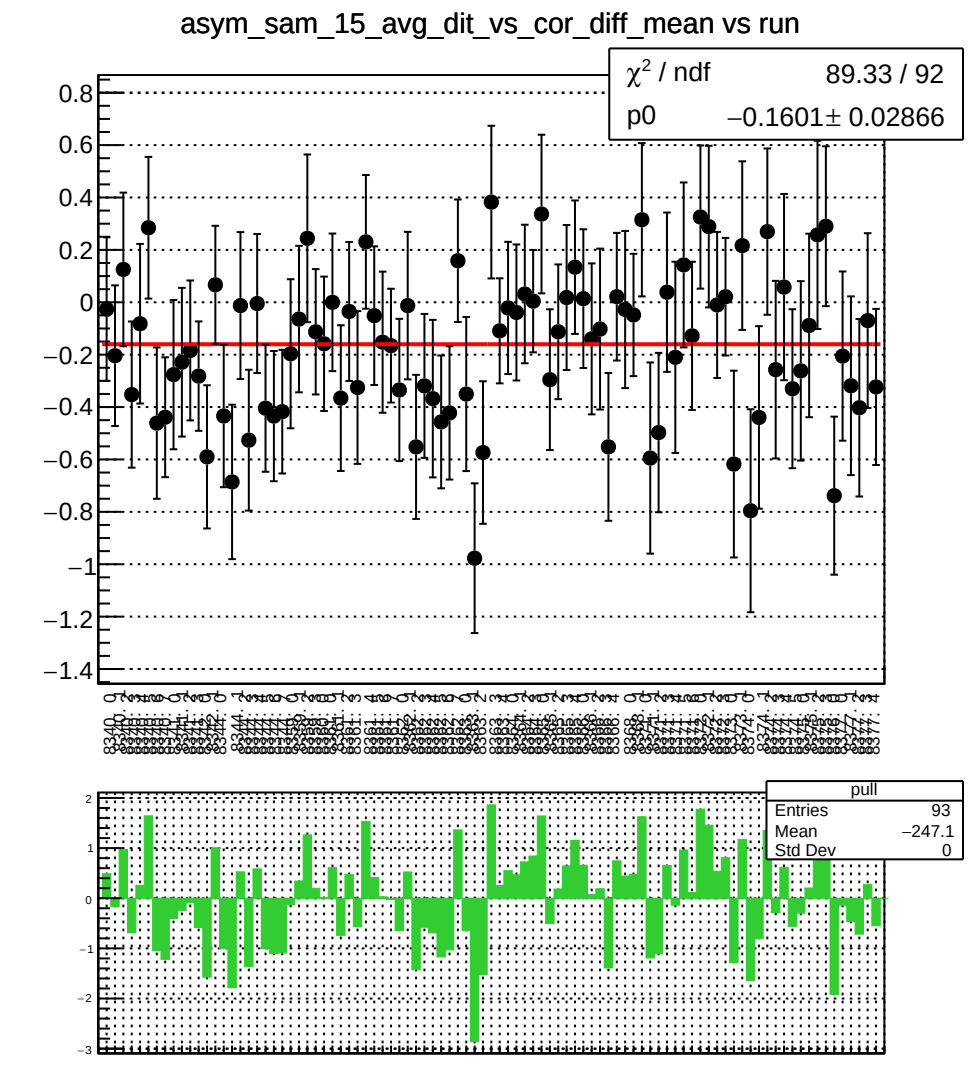

pull1D
Entries 93
Mean 0.01064
Std Dev 0.9449
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

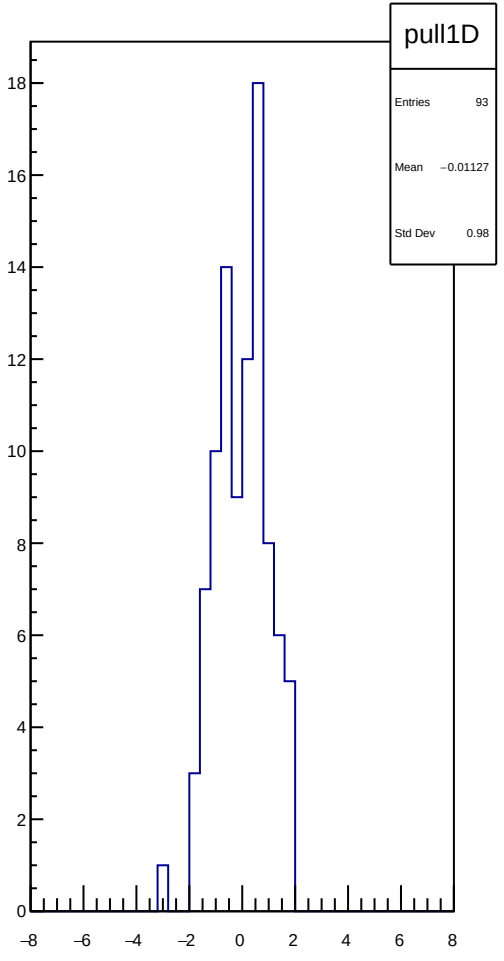

asym_sam_15_avg_rms vs run
χ^2 / ndf 5305 / 92
p0 387.7 ± 0.2867
440
420
400
380
360

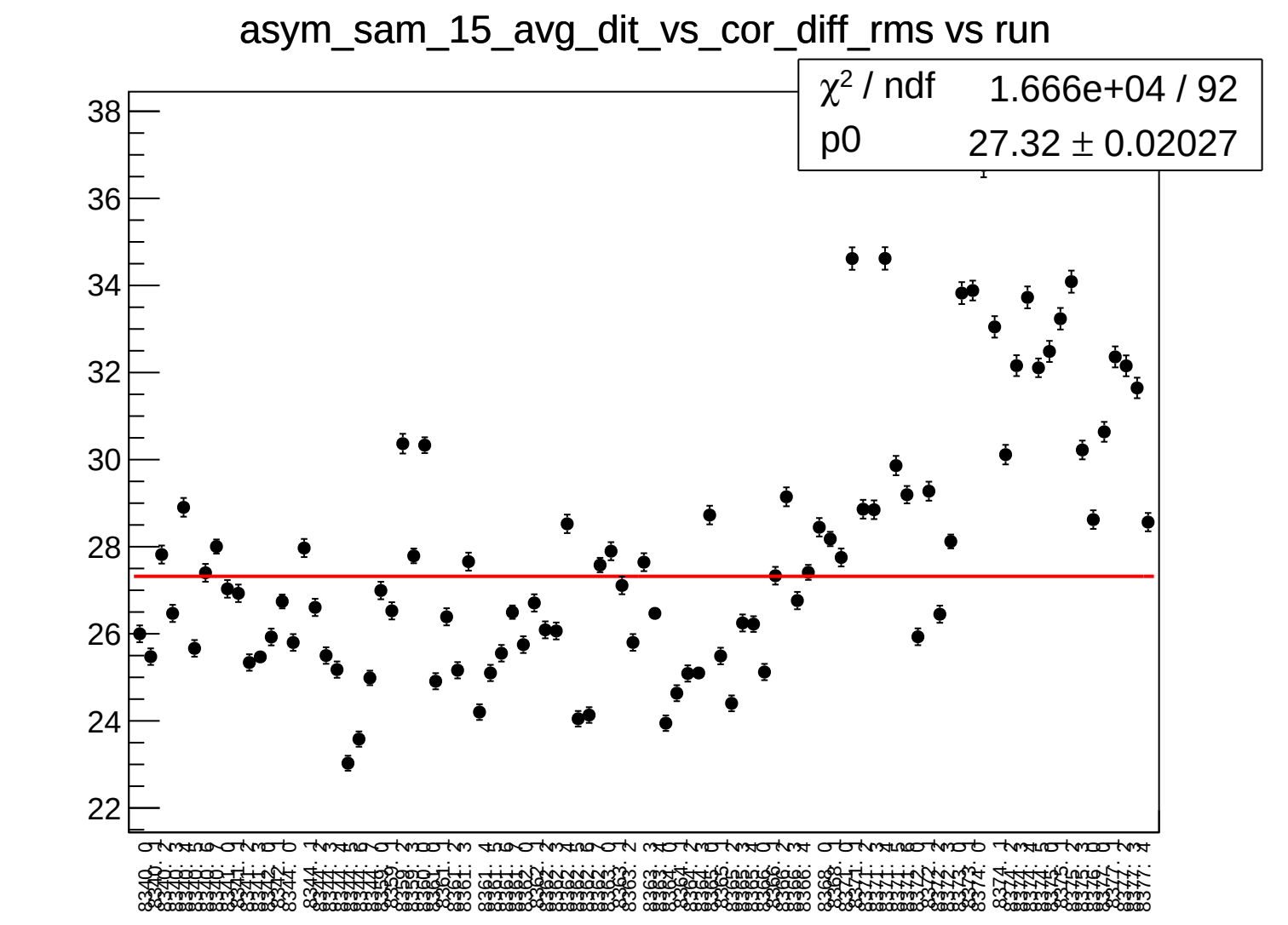

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.67 / 92
p0 −1.382e−14 ± 2.679e−14
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 127
Std Dev 0
2
1
0
−1
−2

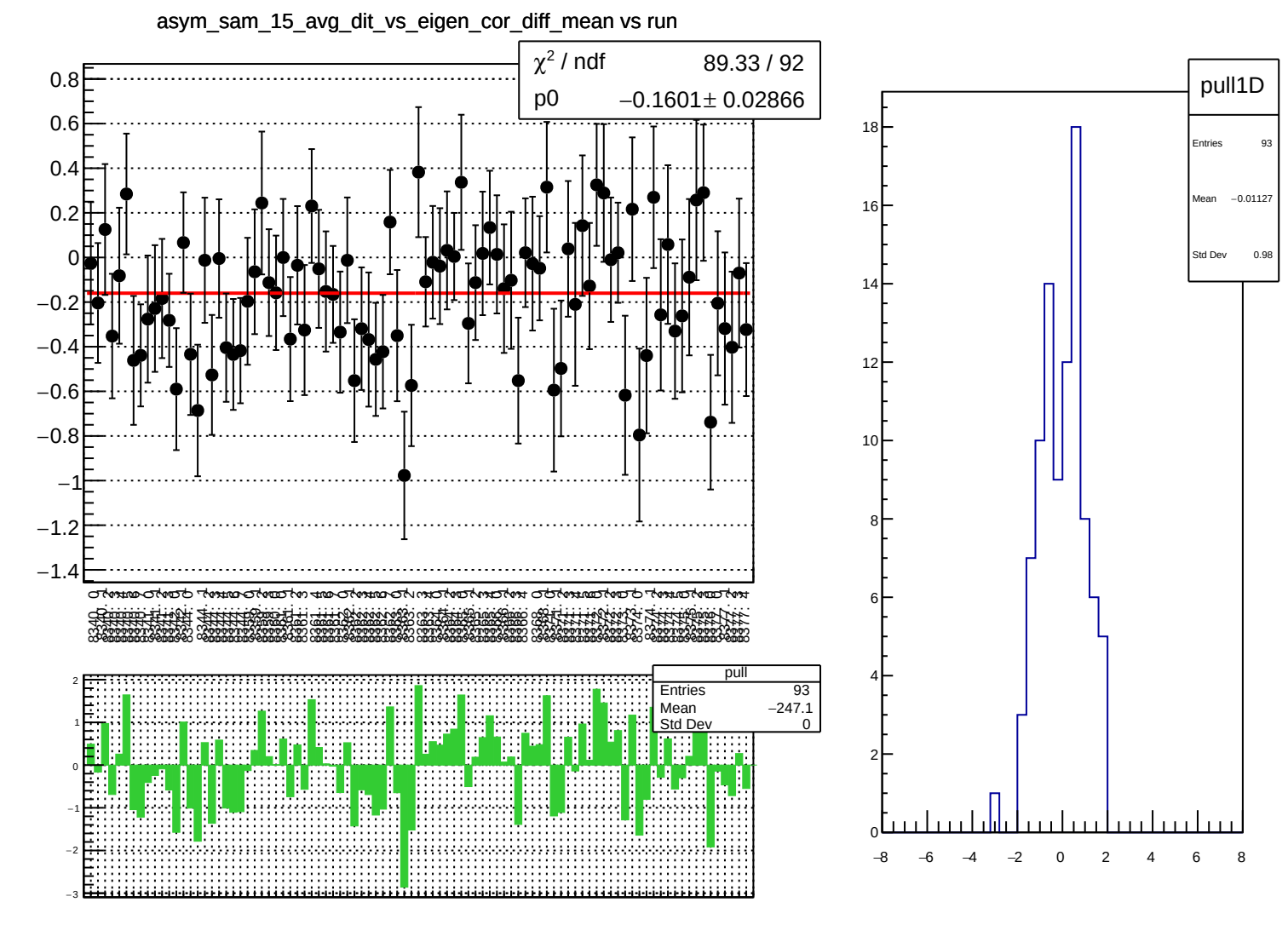

pull1D
Entries 93
Mean −0.008601
Std Dev 0.9873
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

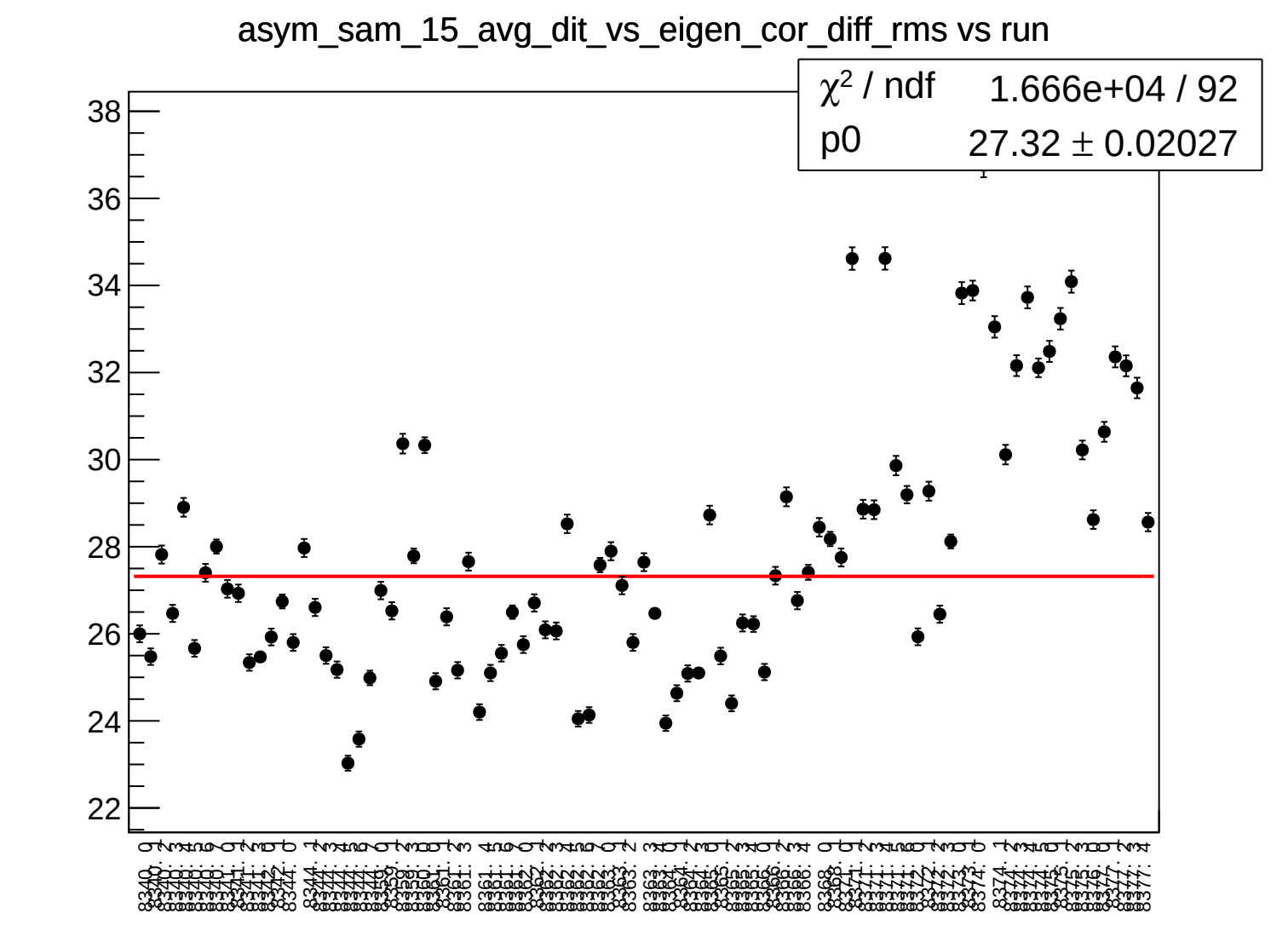

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.745e+05 / 92
p0 1.756e−11 ± 1.894e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

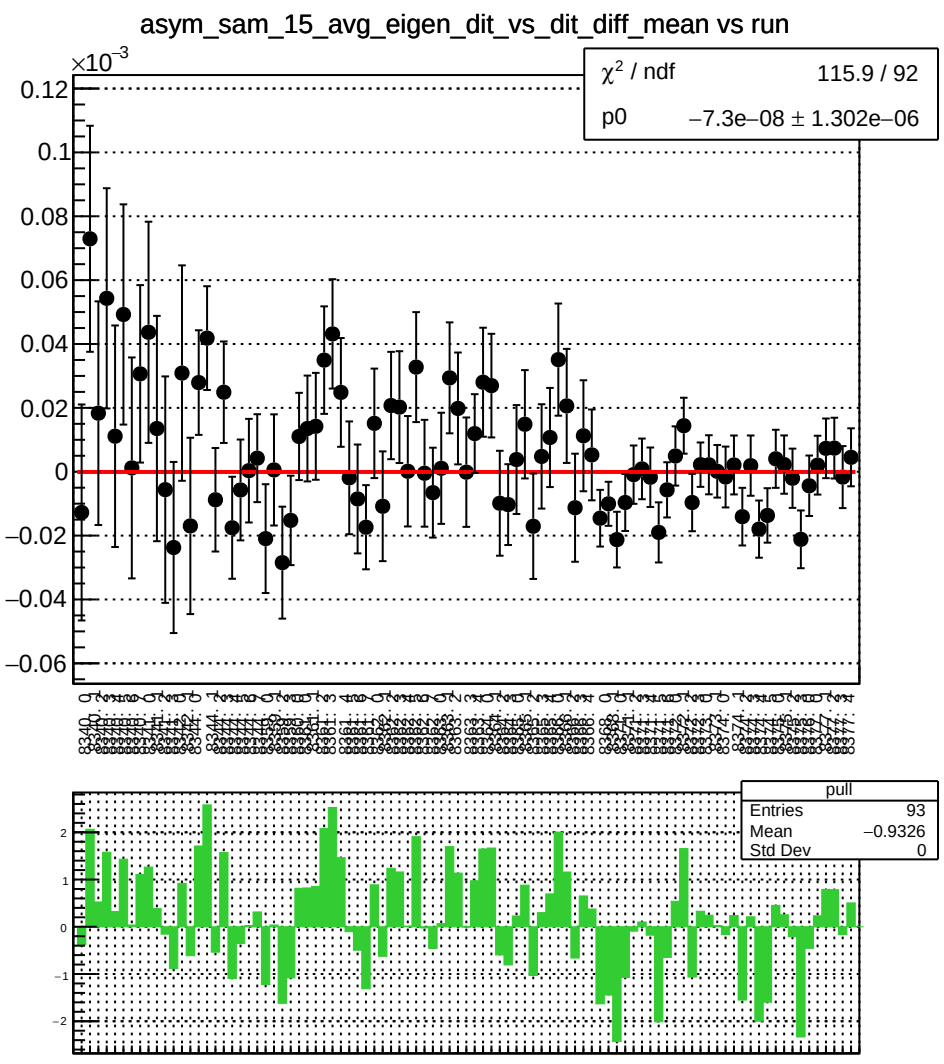

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.33 / 92
p0 −0.1601± 0.02866
pull
Entries 93
Mean −247.1
Std Dev 0

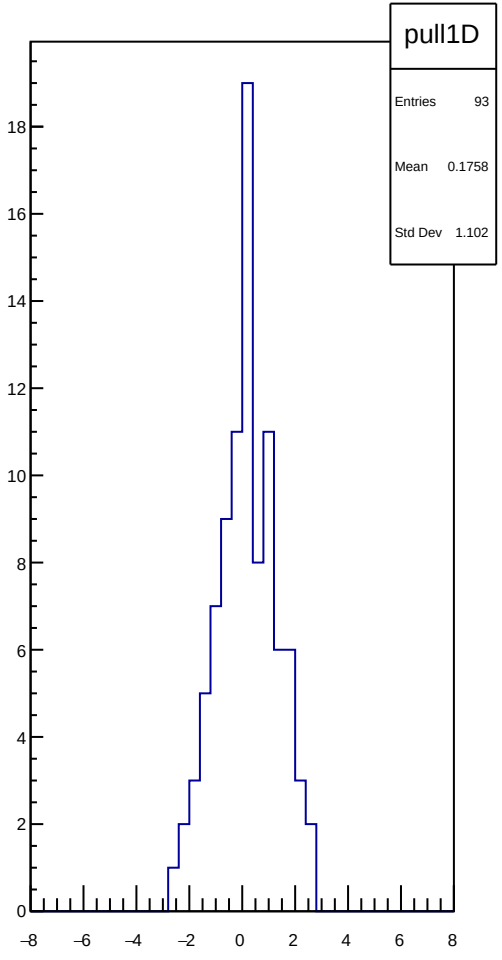

pull1D
Entries 93
Mean −0.01127
Std Dev 0.98

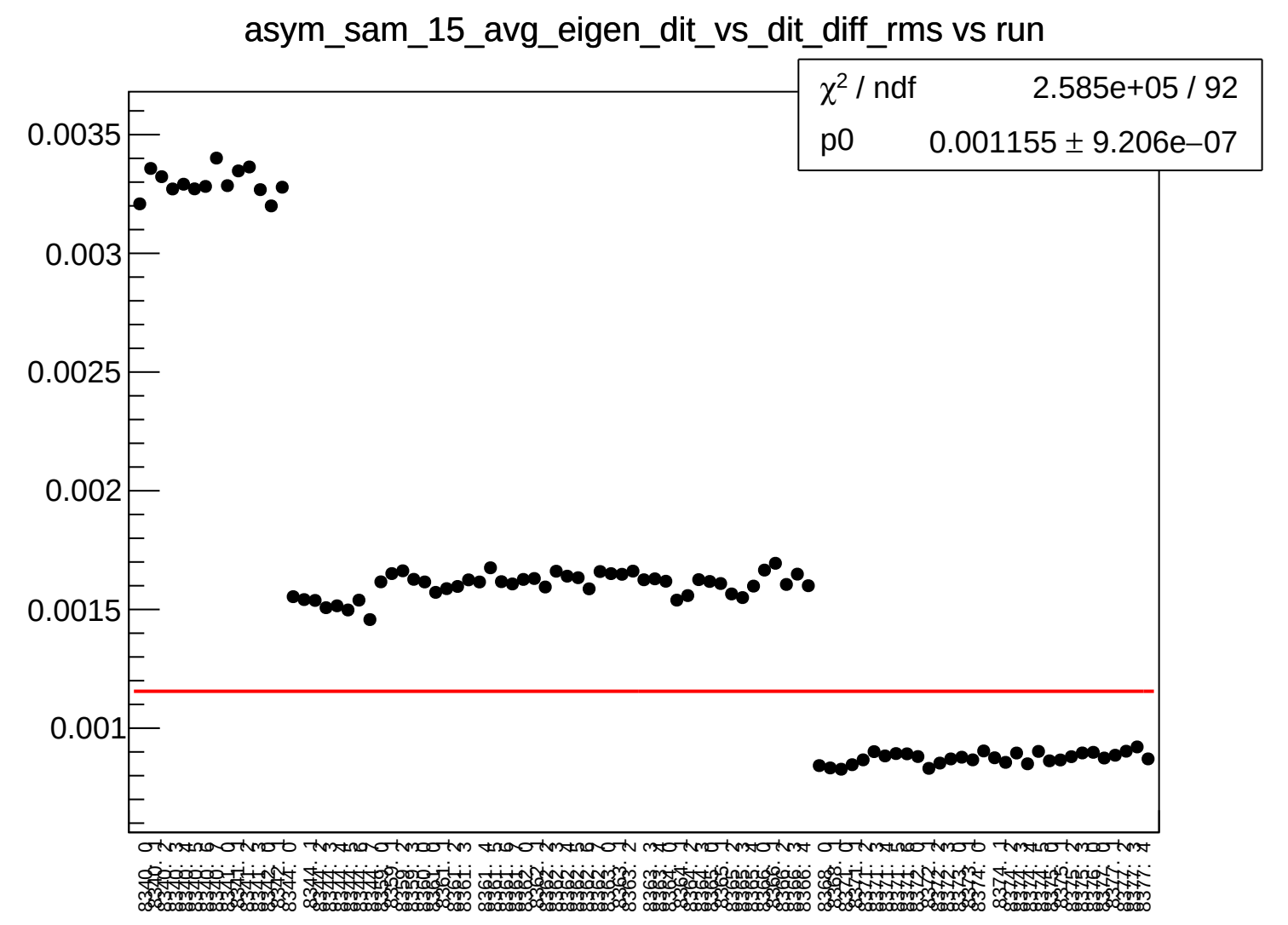

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.666e+04 / 92
p0 27.32 ± 0.02027
38
36
34
32
30
28
26
24
22

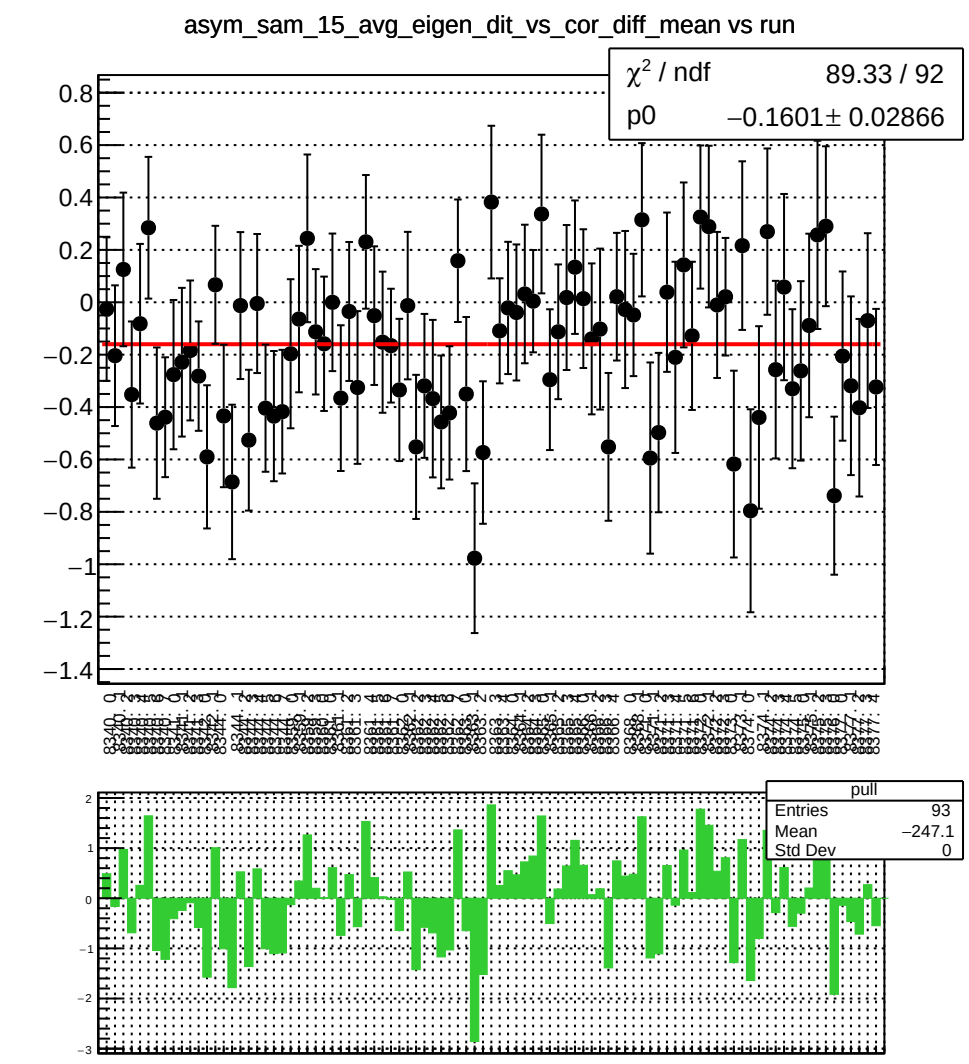

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.33 / 92
p0 −0.1601 ± 0.02866
pull
Entries 93
Mean −247.1
Std Dev 0
pull1D
Entries 93
Mean −0.01127
Std Dev 0.98

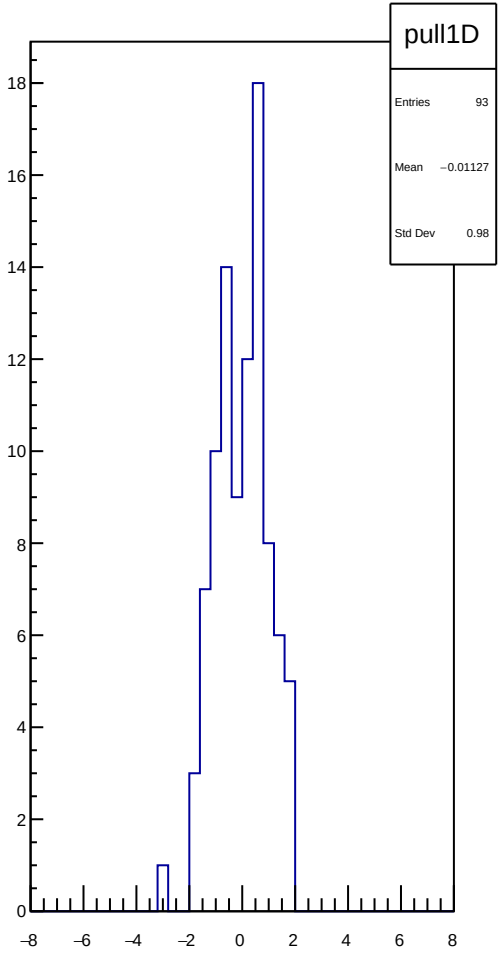

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.666e+04 / 92
p0 27.32 ± 0.02027
38
36
34
32
30
28
26
24
22

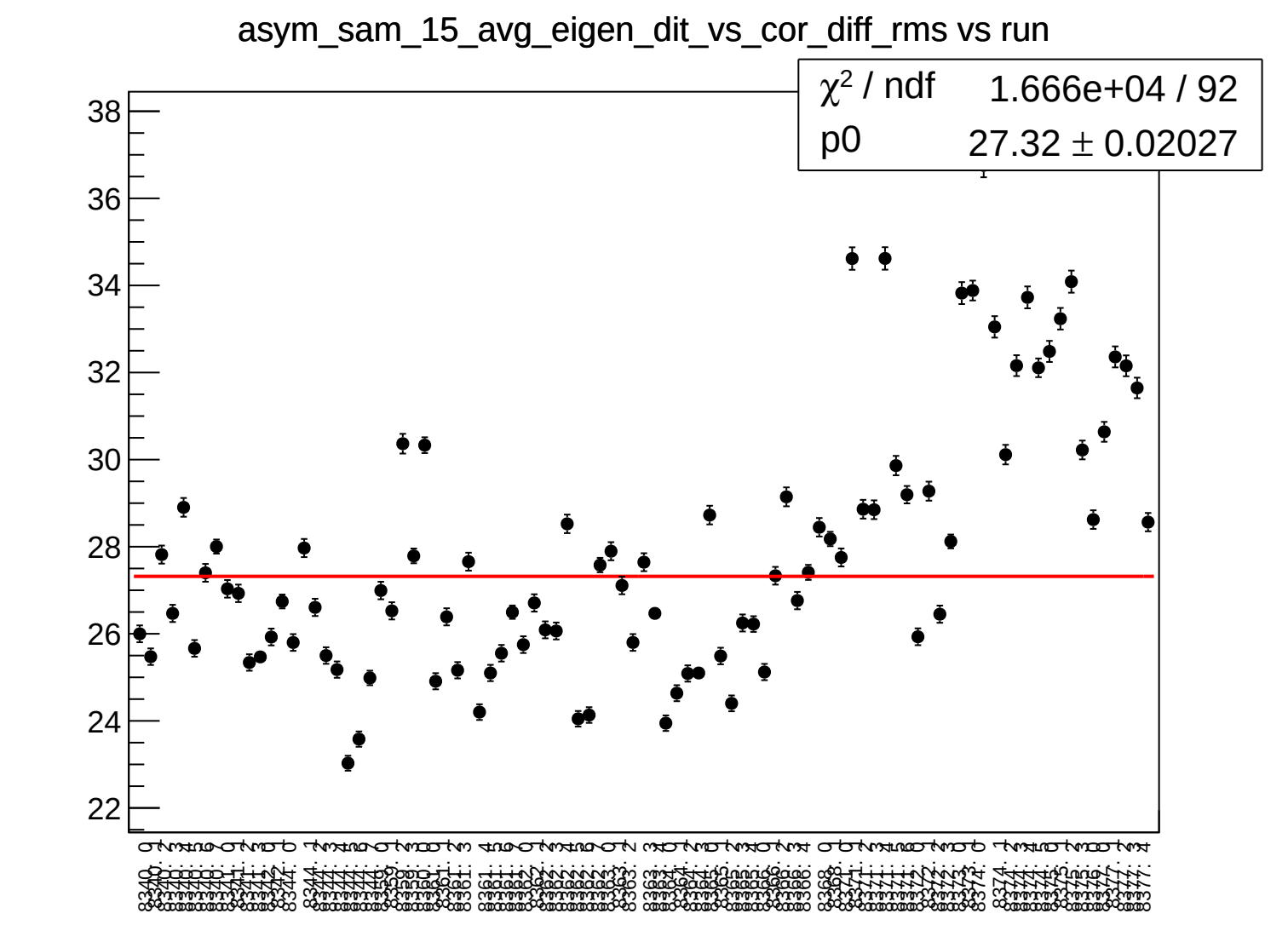

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.9 / 92
p0 −7.3e−08 ± 1.302e−06
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −0.9326
Std Dev 0
2
1
0
−1
−2

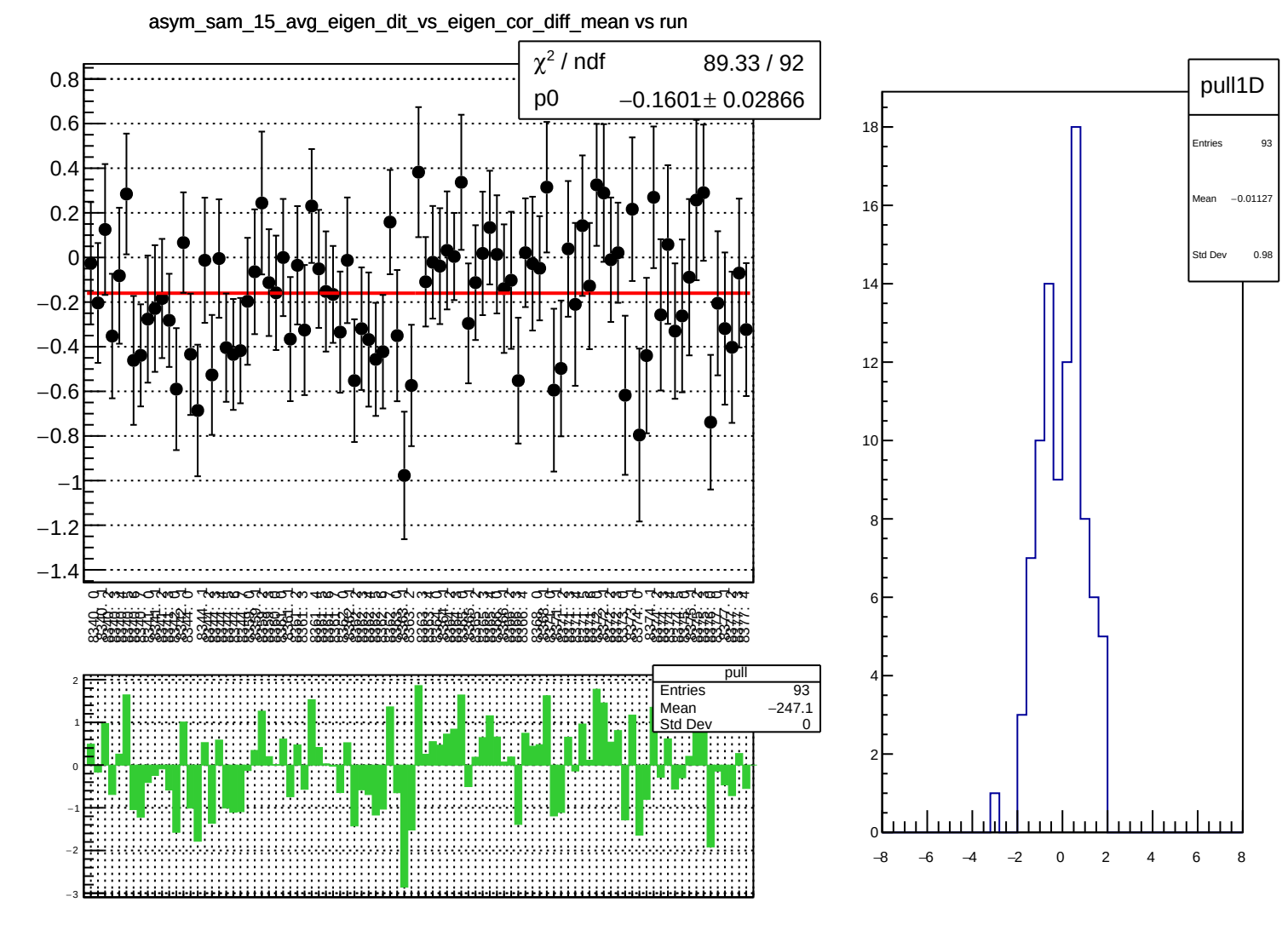

pull1D
Entries 93
Mean 0.1758
Std Dev 1.102
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

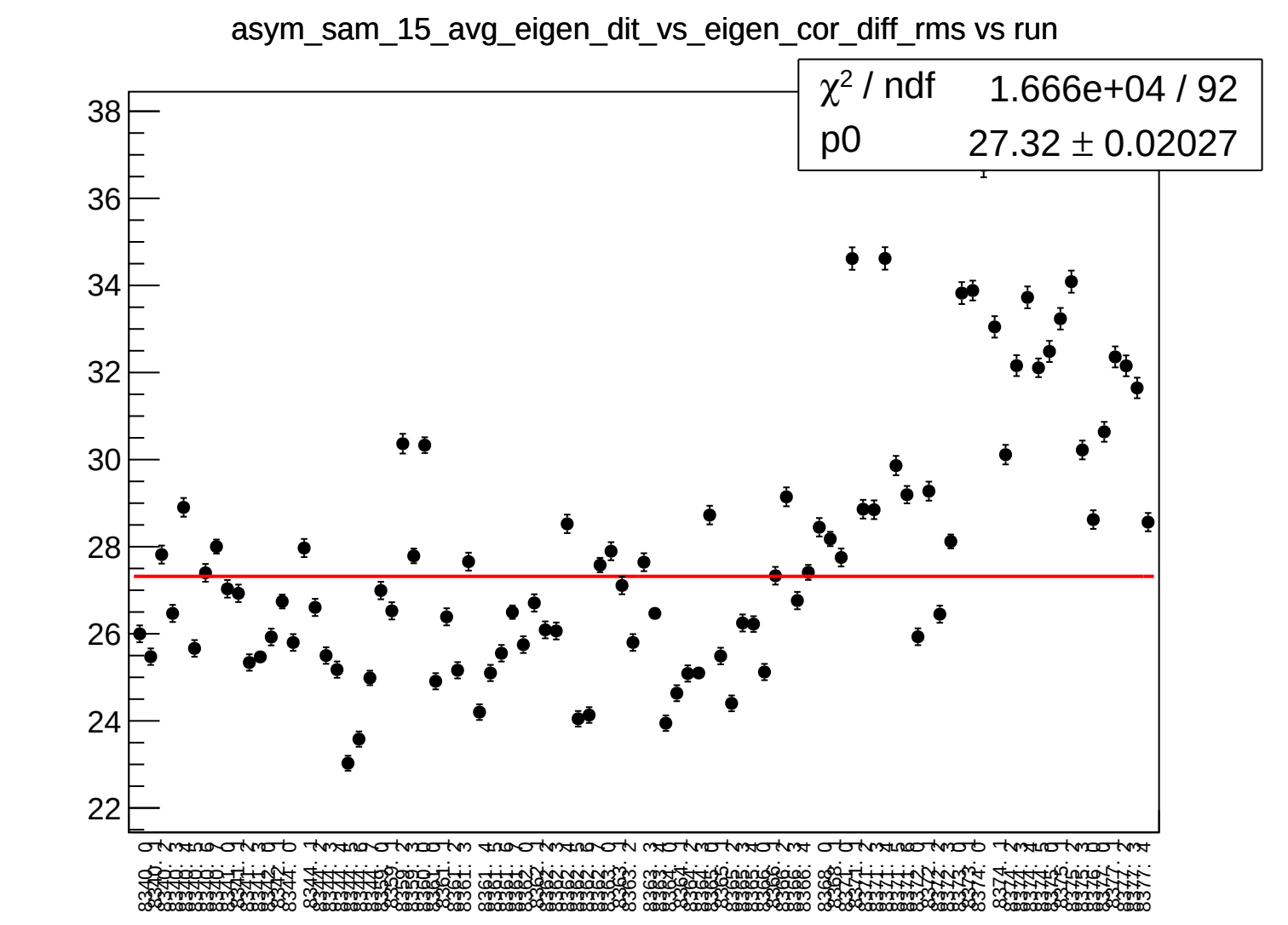

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.585e+05 / 92
p0 0.001155 ± 9.206e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001

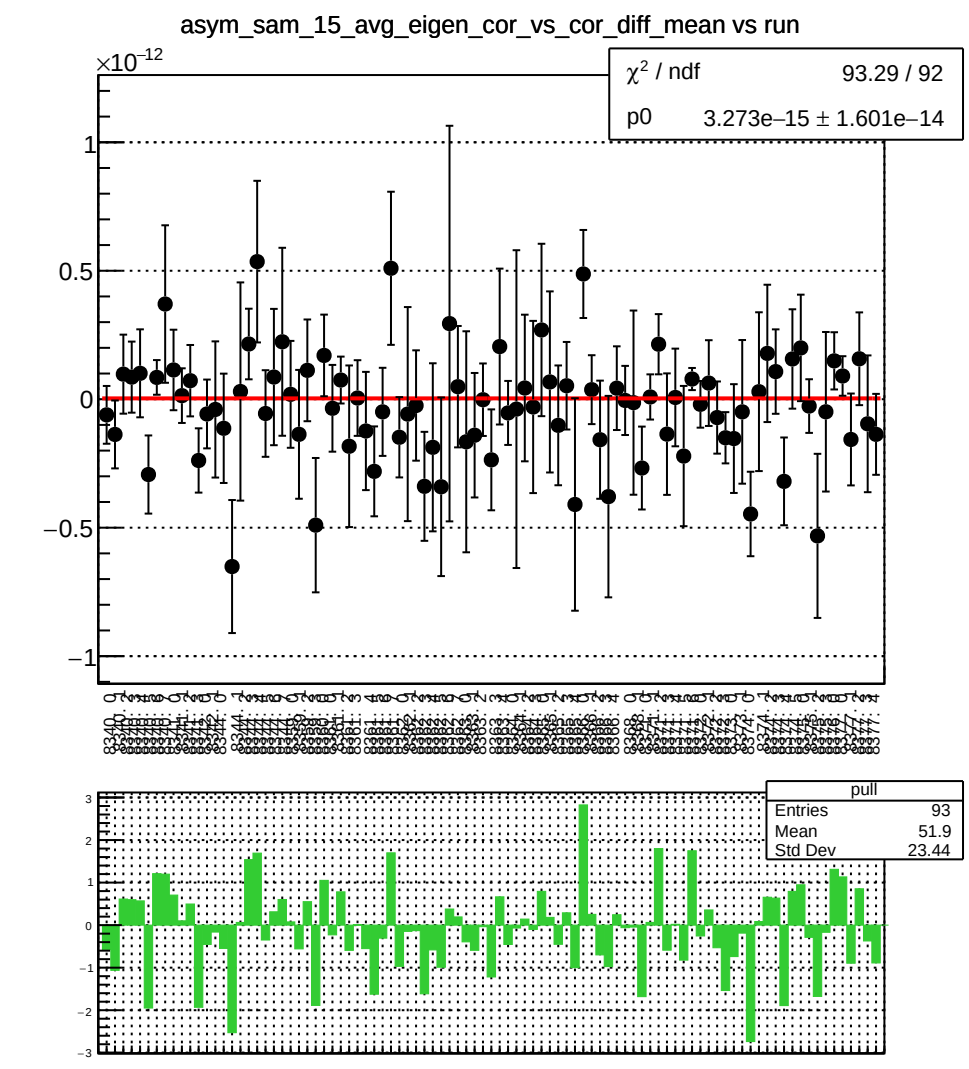

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.33 / 92
p0 −0.1601 ± 0.02866
pull
Entries 93
Mean −247.1
Std Dev 0

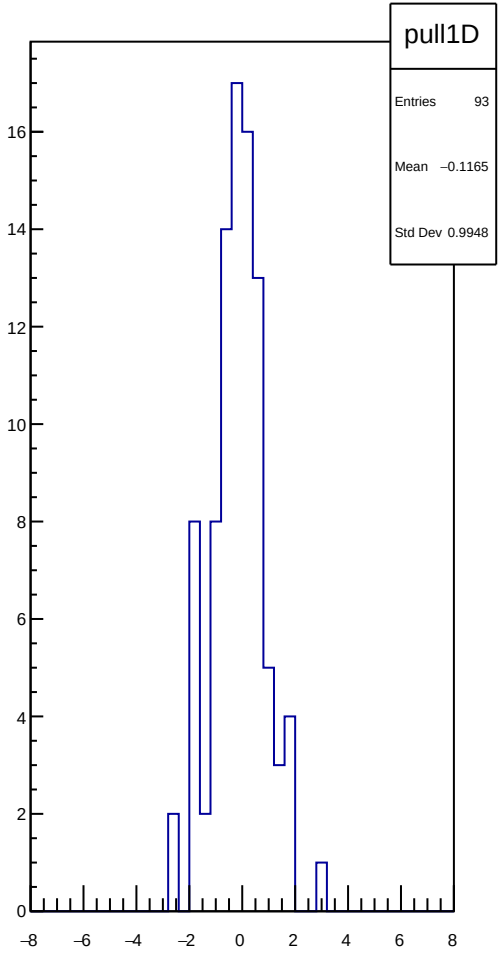

pull1D
Entries 93
Mean −0.01127
Std Dev 0.98

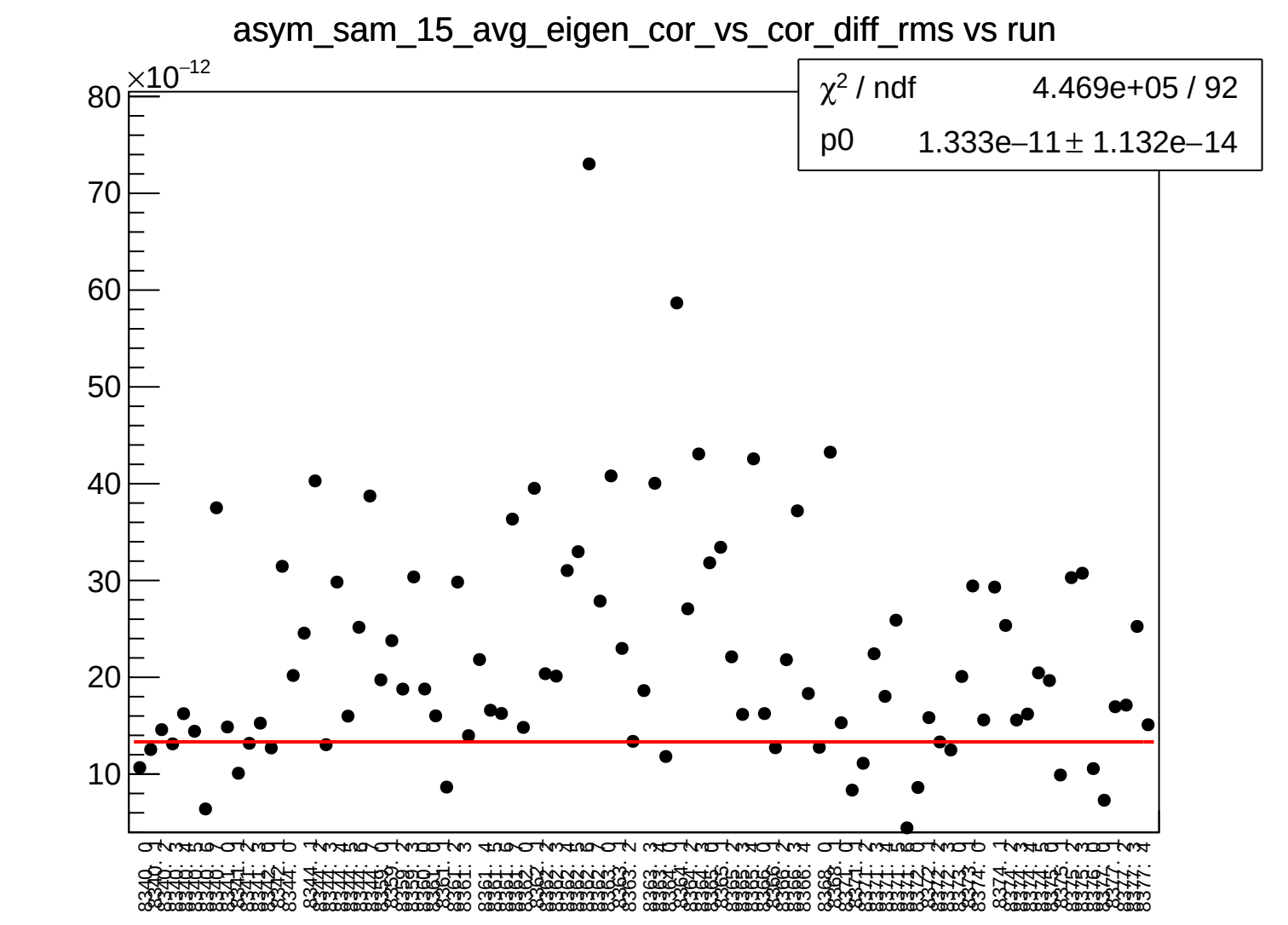

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.666e+04 / 92
p0 27.32 ± 0.02027
38
36
34
32
30
28
26
24
22

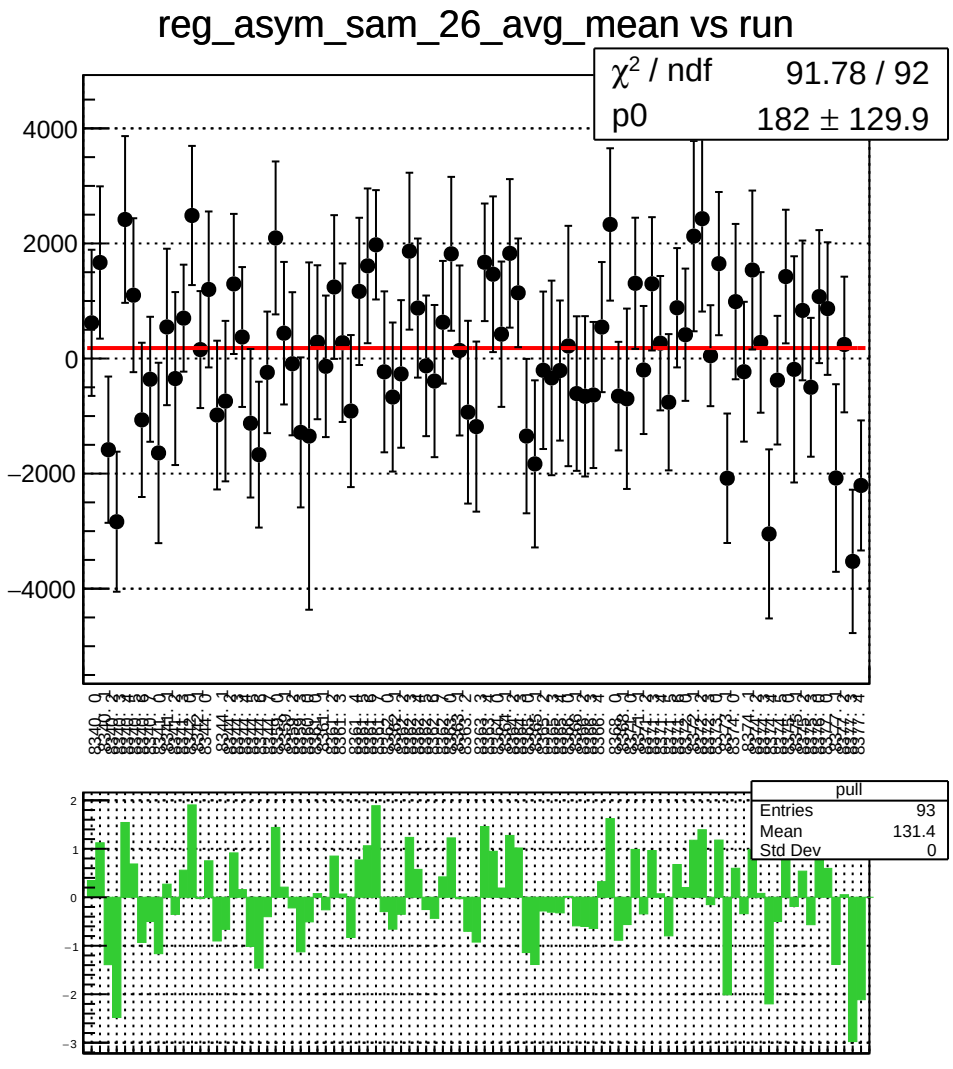

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.33 / 92
p0 −0.1601± 0.02866
pull
Entries 93
Mean −247.1
Std Dev 0
pull1D
Entries 93
Mean −0.01127
Std Dev 0.98

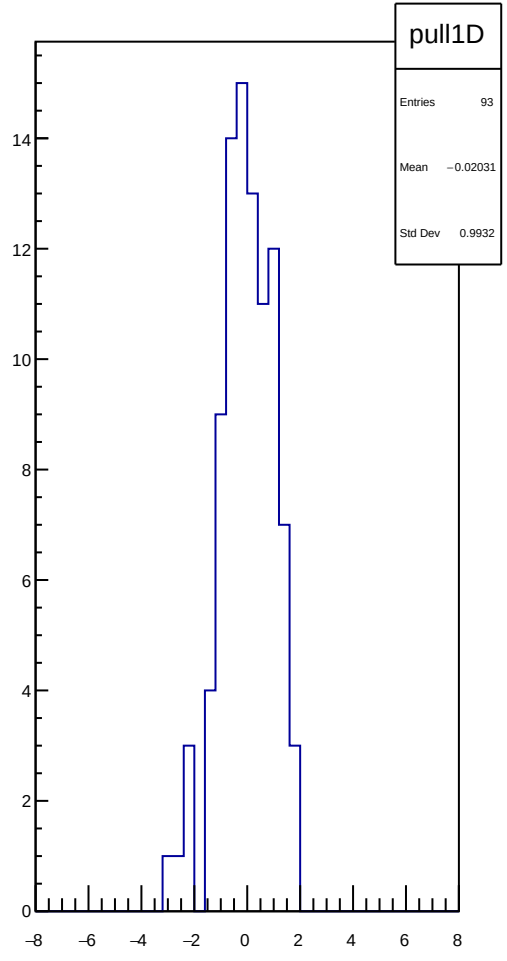

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.666e+04 / 92
p0 27.32 ± 0.02027
38
36
34
32
30
28
26
24
22

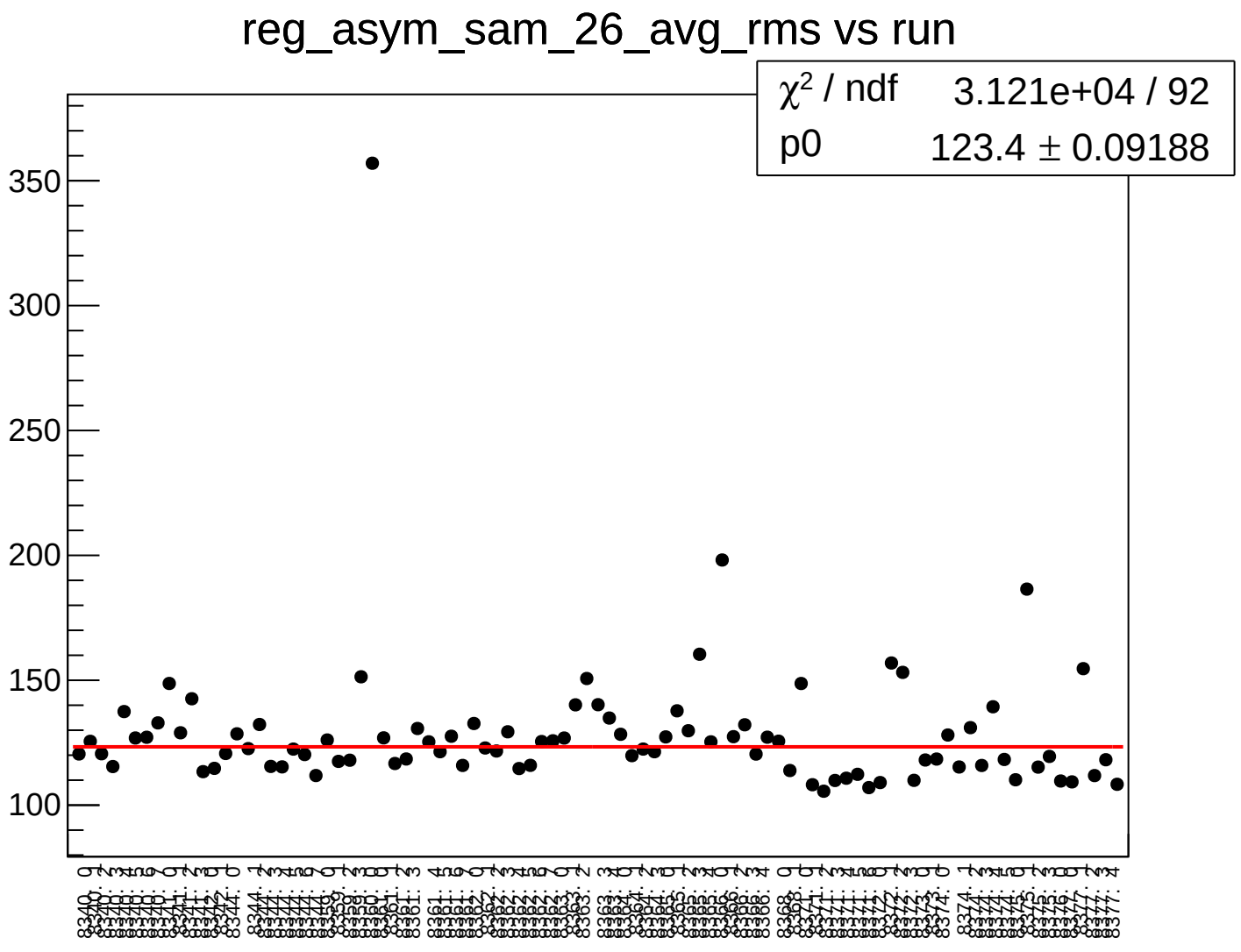

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.29 / 92
p0 3.273e−15 ± 1.601e−14
pull
Entries 93
Mean 51.9
Std Dev 23.44

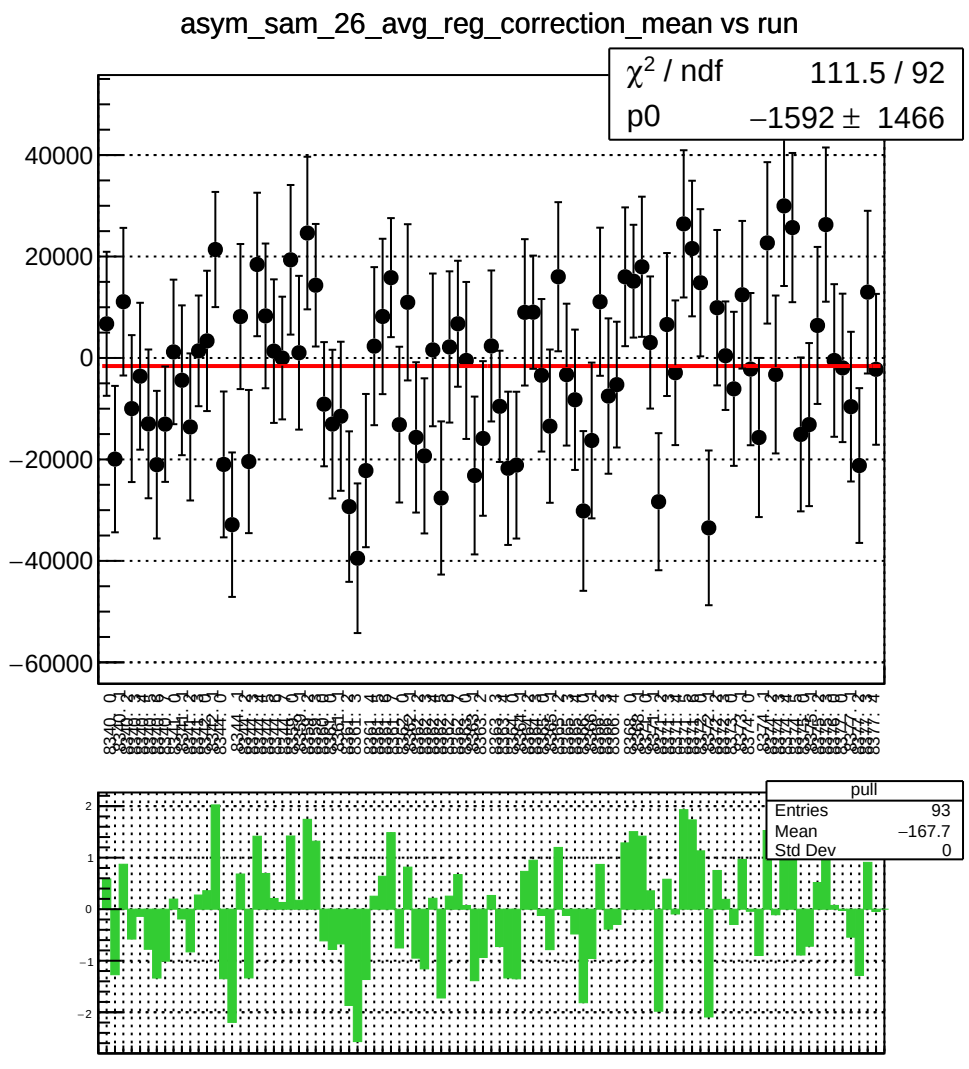

pull1D
Entries 93
Mean −0.1165
Std Dev 0.9948

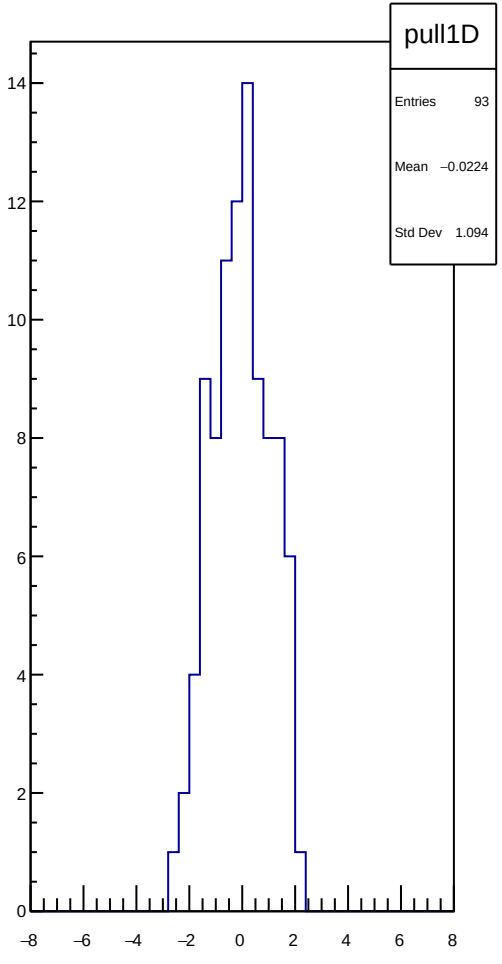

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.469e+05 / 92
p0 1.333e−11 ± 1.132e−14
80
70
60
50
40
30
20
10


reg_asym_sam_26_avg_mean vs run
χ² / ndf 91.78 / 92
p0 182 ± 129.9
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.02031
Std Dev 0.9932
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 3.121e+04 / 92
p0 123.4 ± 0.09188
350
300
250
200
150
100


asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 111.5 / 92
p0 −1592 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −167.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.0224
Std Dev 1.094
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12
10
8
6
4
2
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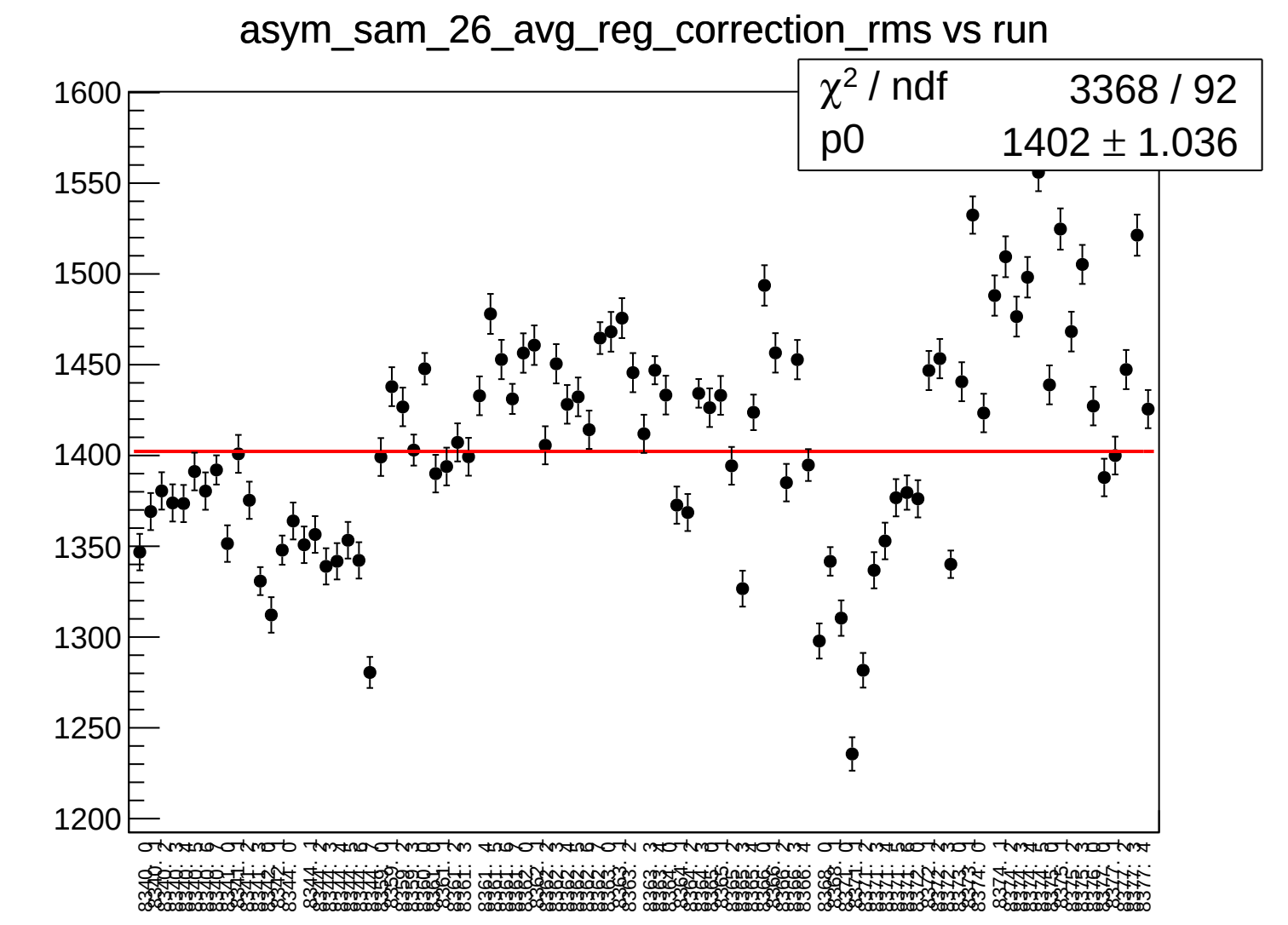
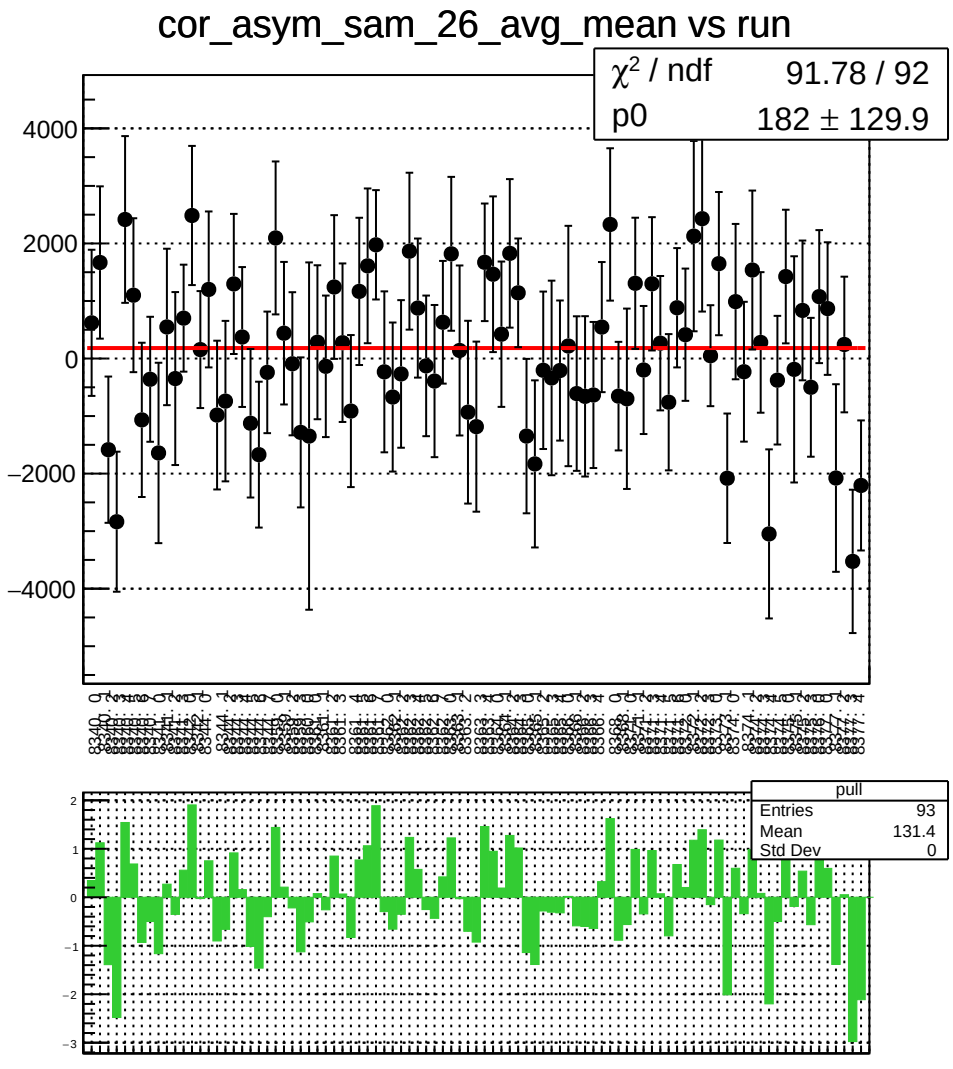
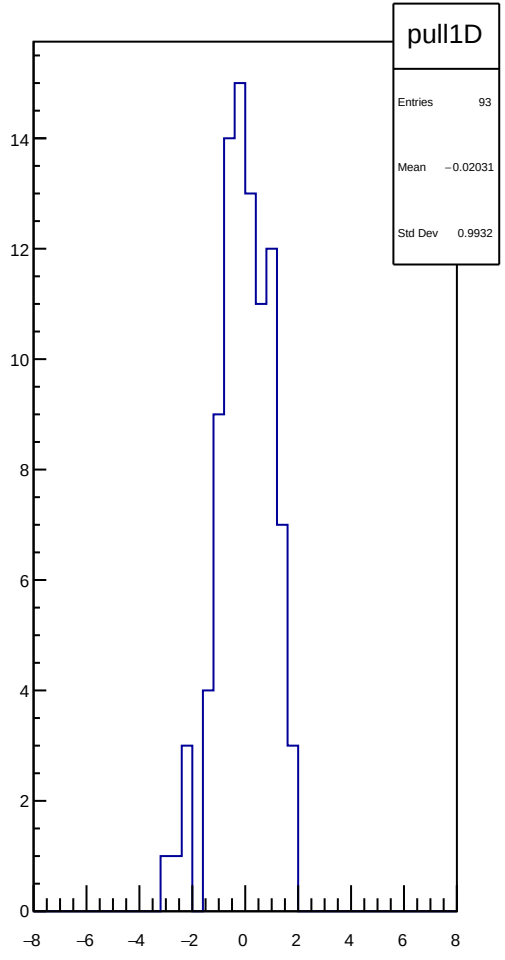
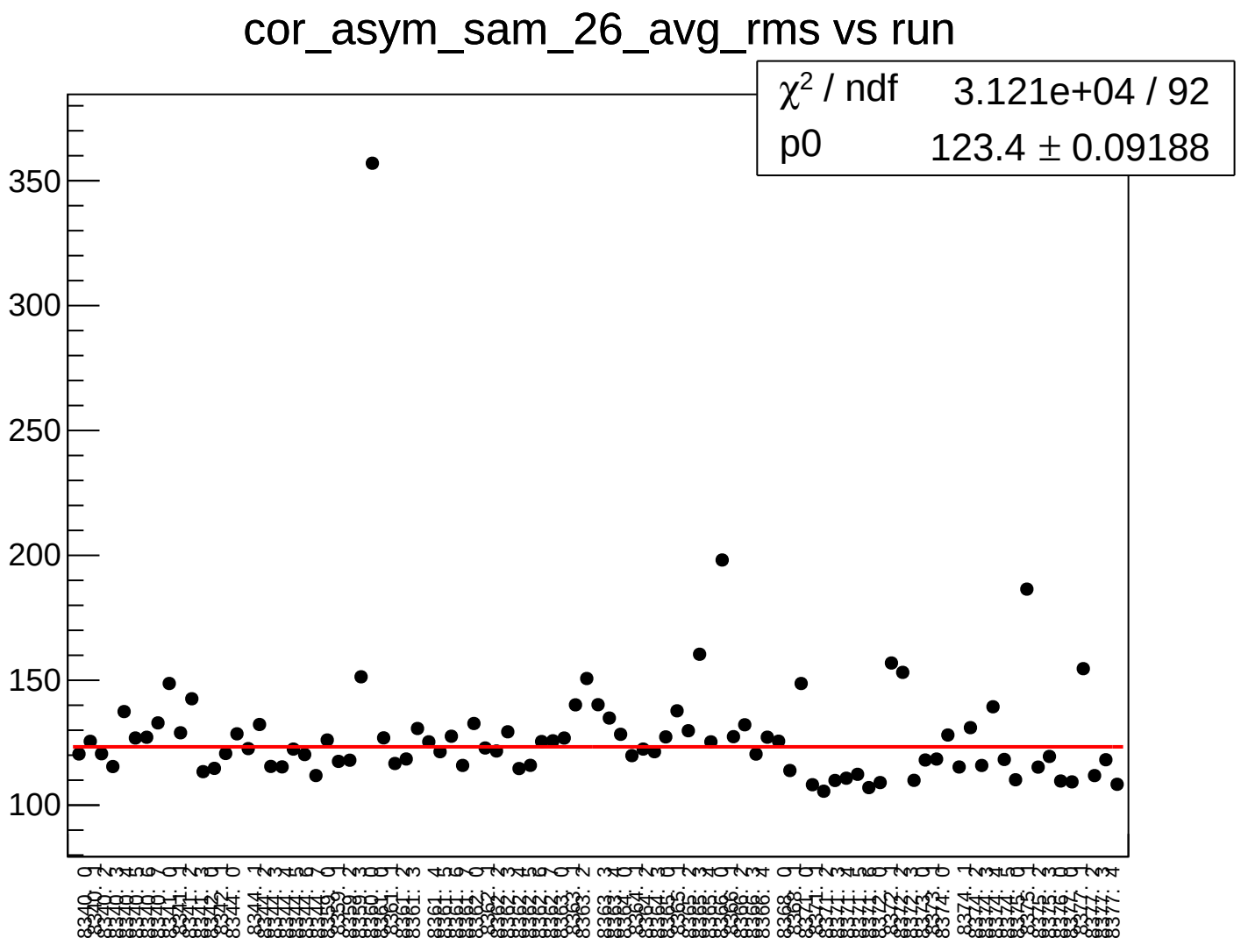
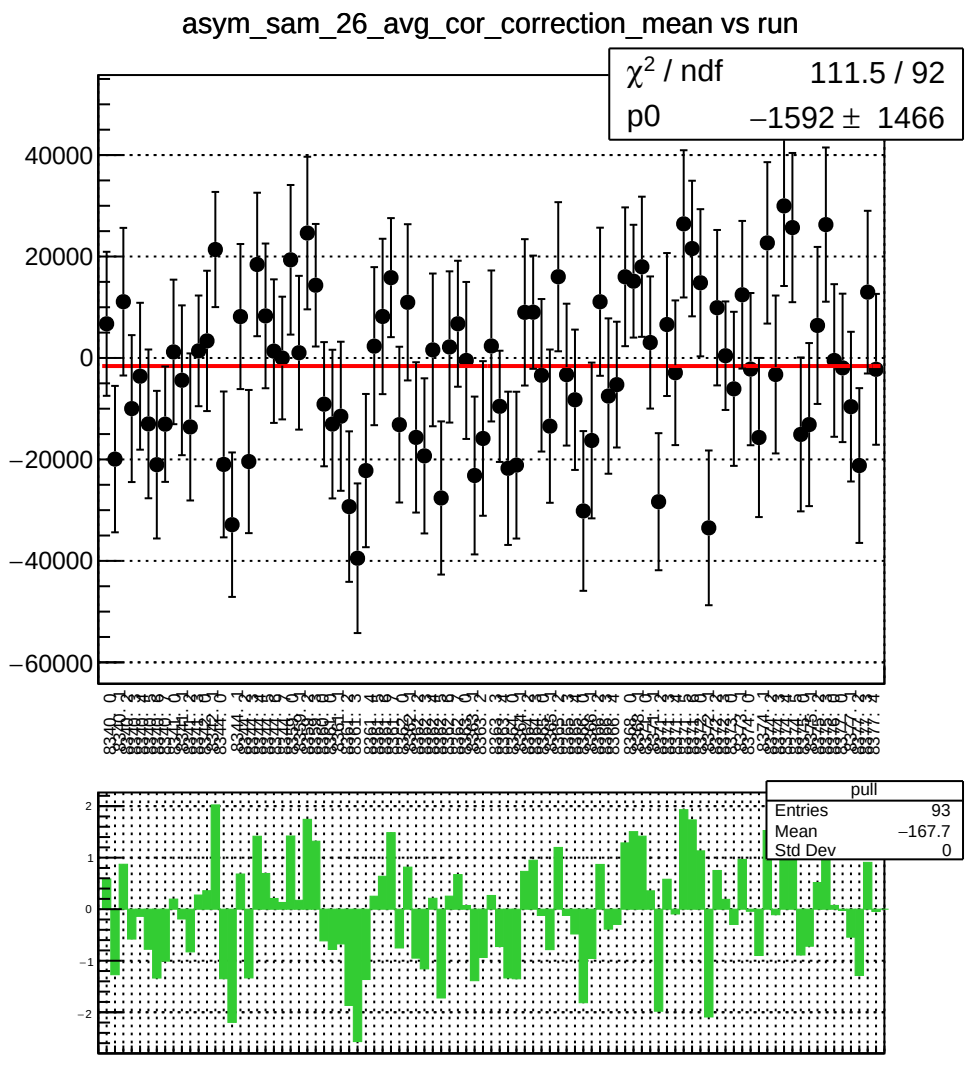
−8
−6
−4
−2
0
2
4
6
8

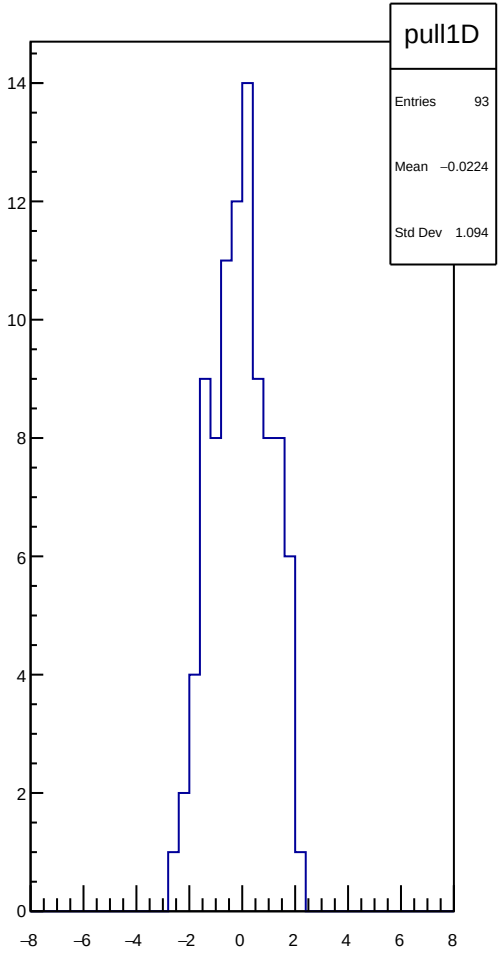

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 3368 / 92
p0 1402 ± 1.036
1600
1550
1500
1450
1400
1350
1300
1250
1200

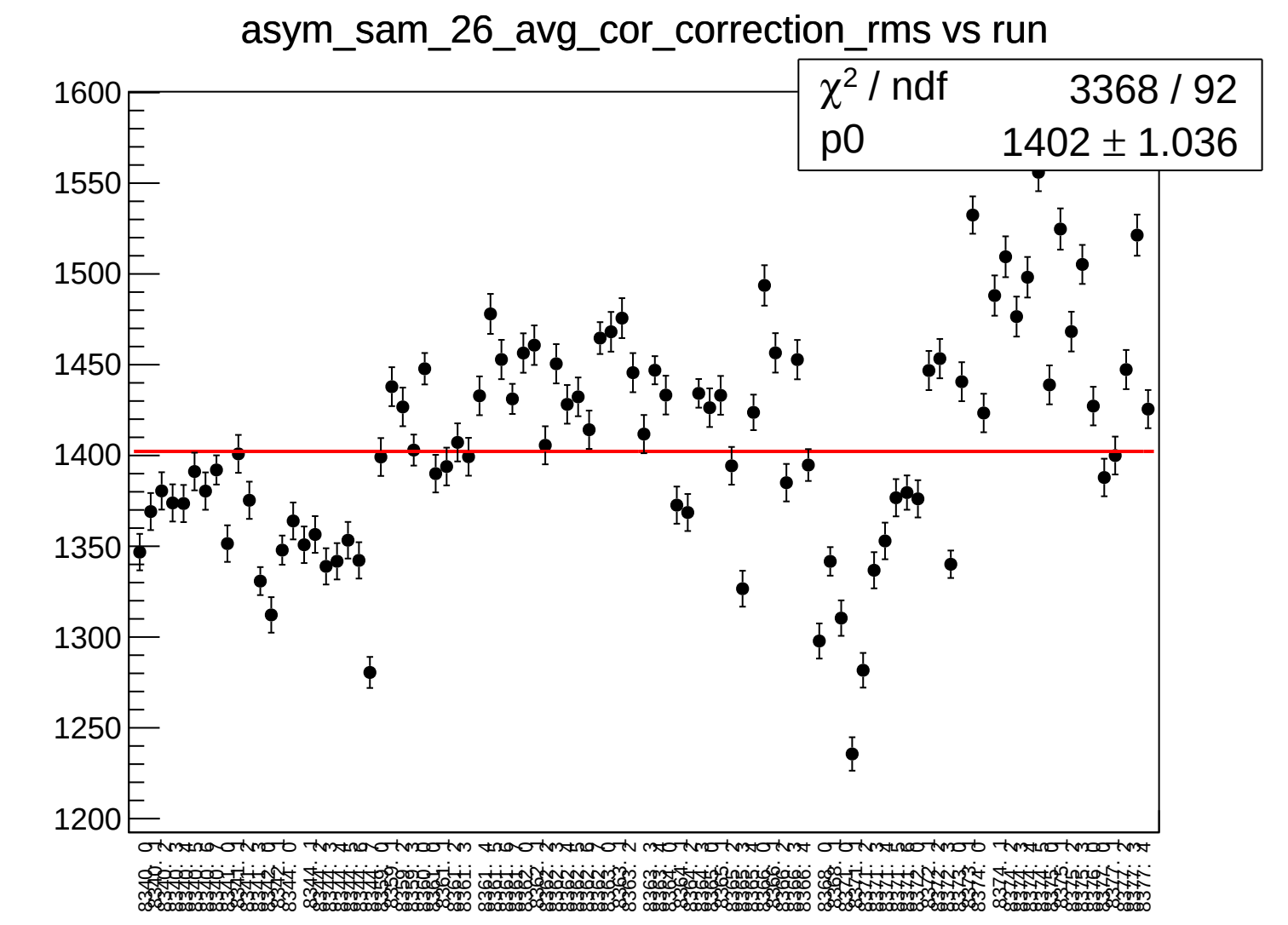

cor_asym_sam_26_avg_mean vs run
χ² / ndf 91.78 / 92
p0 182 ± 129.9
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3

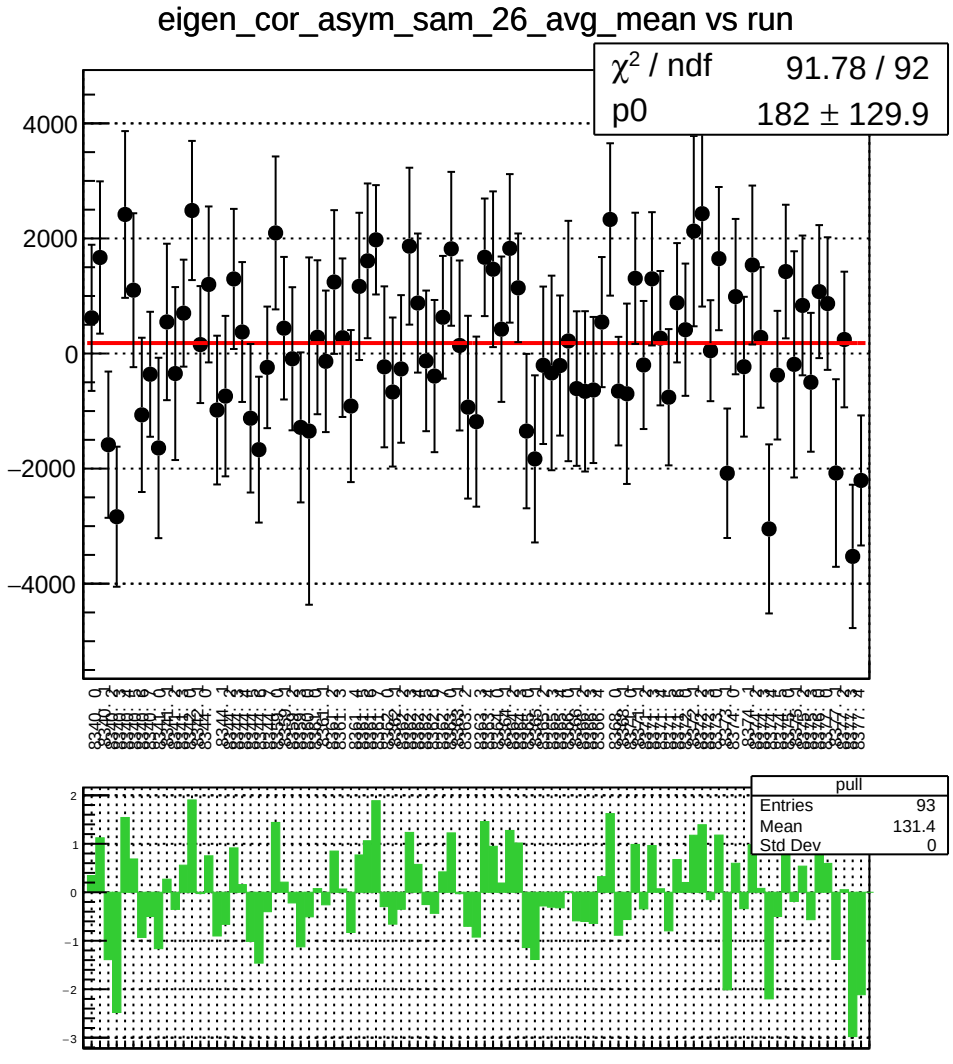

pull1D
Entries 93
Mean −0.02031
Std Dev 0.9932
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

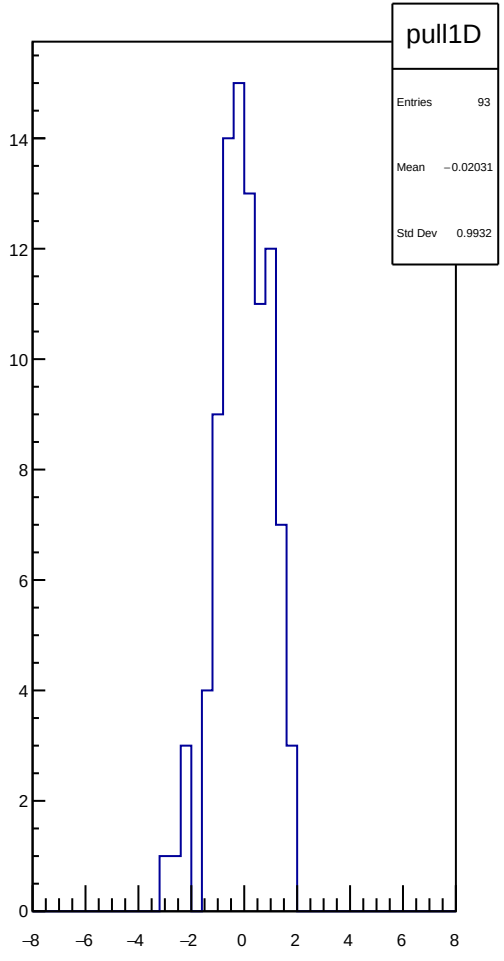

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.121e+04 / 92
p0 123.4 ± 0.09188
350
300
250
200
150
100


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 111.5 / 92
p0 −1592 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −167.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 93
Mean −0.0224
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 3368 / 92
p0 1402 ± 1.036
1600
1550
1500
1450
1400
1350
1300
1250
1200


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 91.78 / 92
p0 182 ± 129.9
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.02031
Std Dev 0.9932
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10
8
6
4
2
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−8
−6
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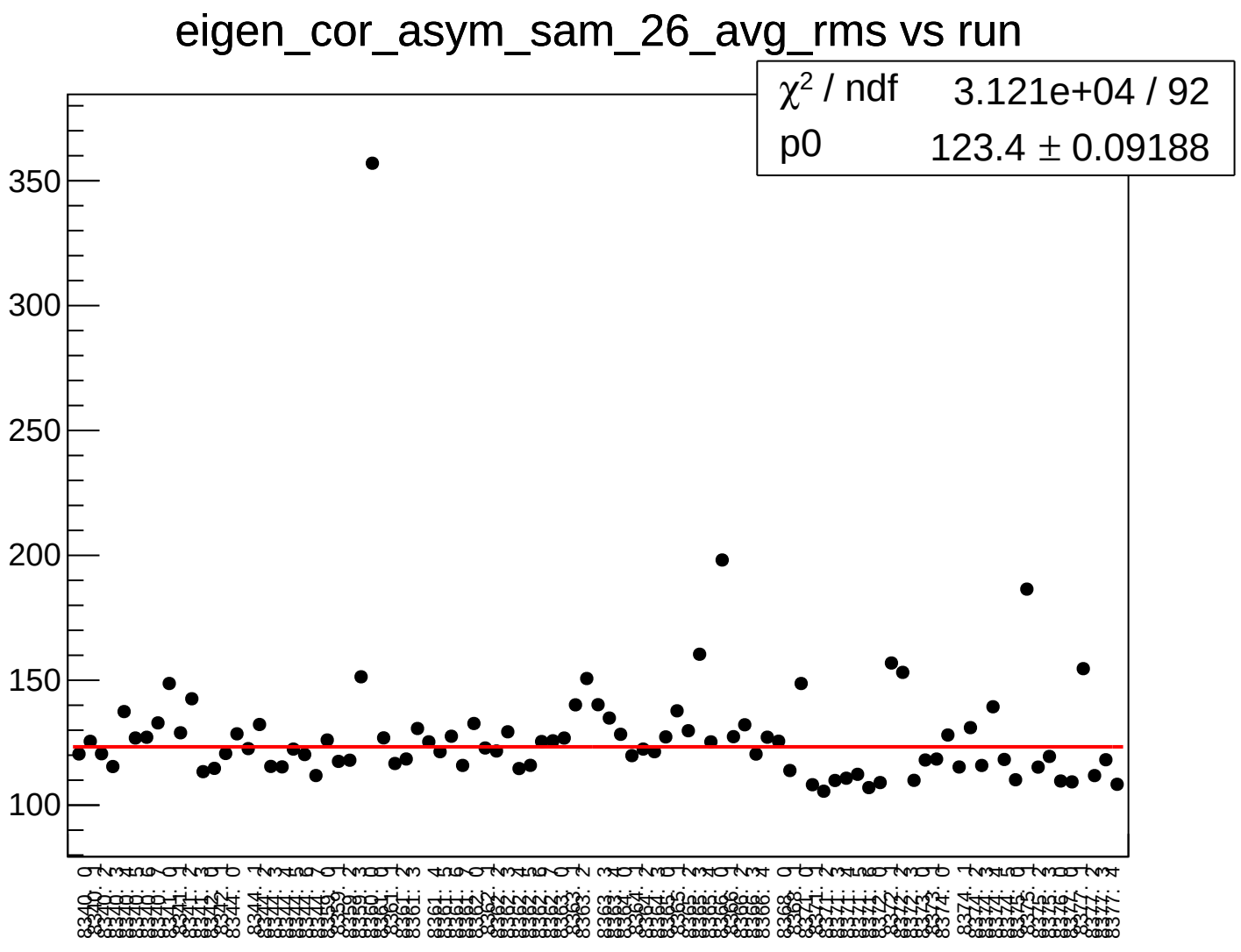
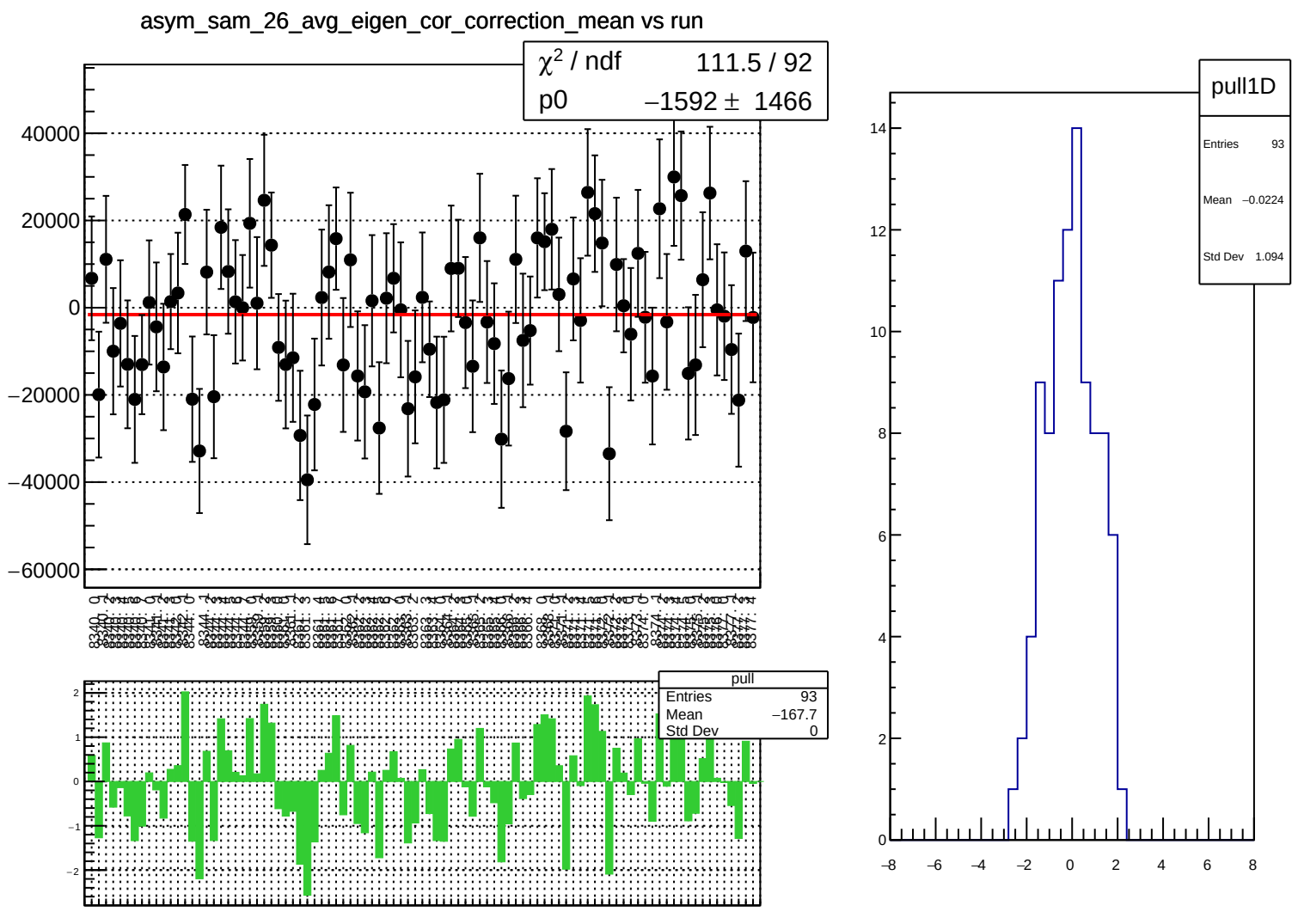
2
4
6
8


eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 3.121e+04 / 92
p0 123.4 ± 0.09188
350
300
250
200
150
100


asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.5 / 92
p0 −1592 ± 1466
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −167.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0224
Std Dev 1.094
14
12
10
8
6
4
2
0
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−6
−4
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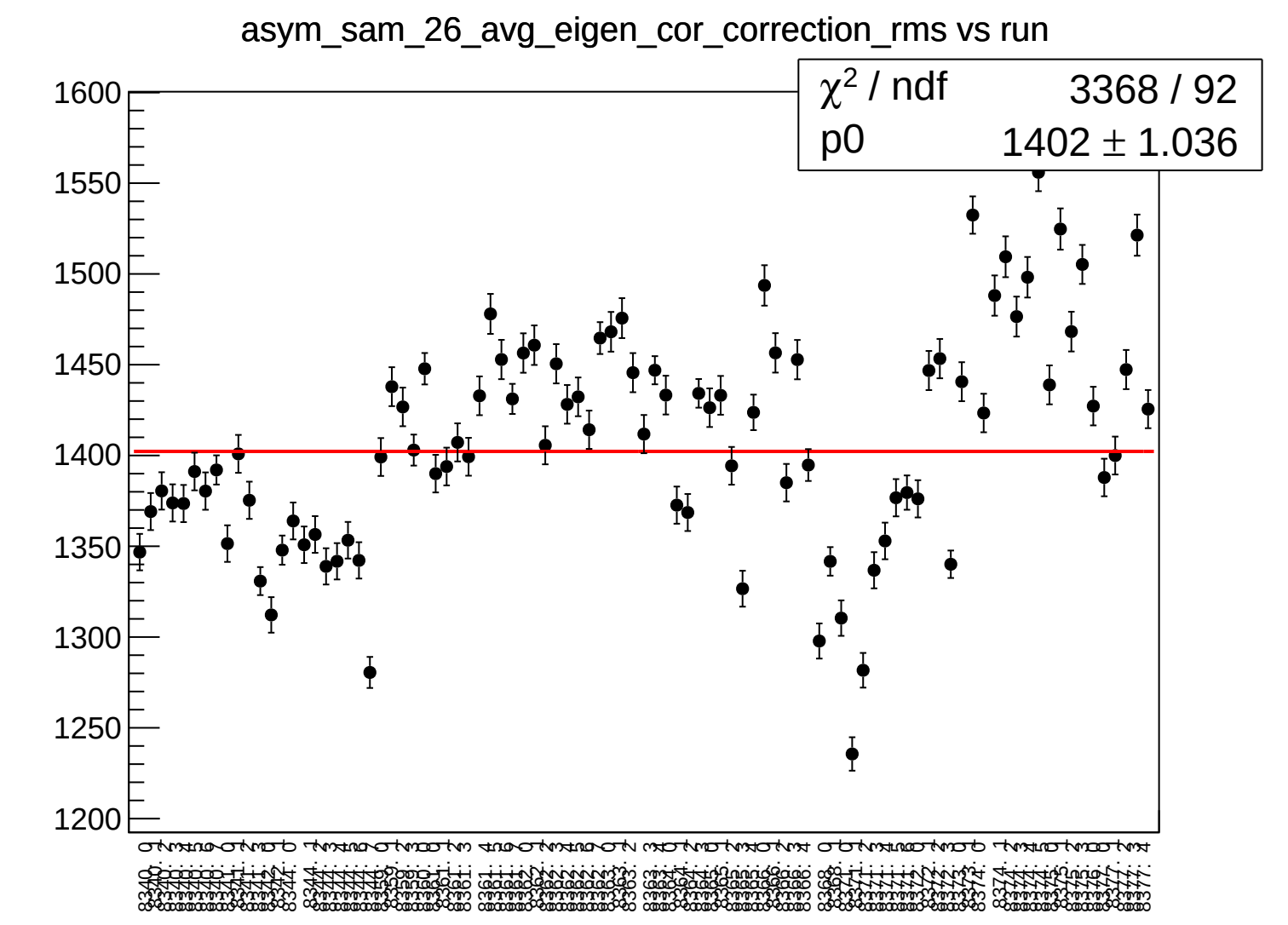
2
4
6
8


asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 3368 / 92
p0 1402 ± 1.036
1600
1550
1500
1450
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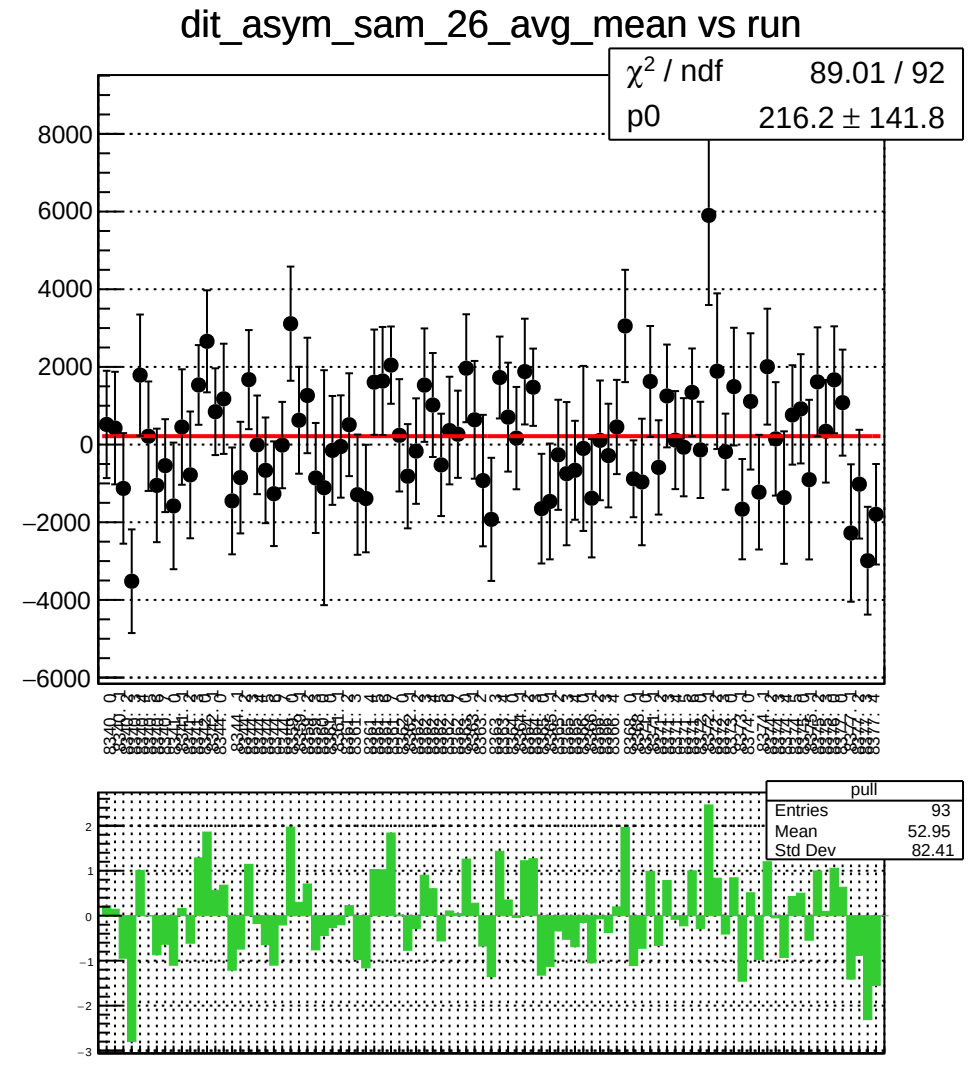
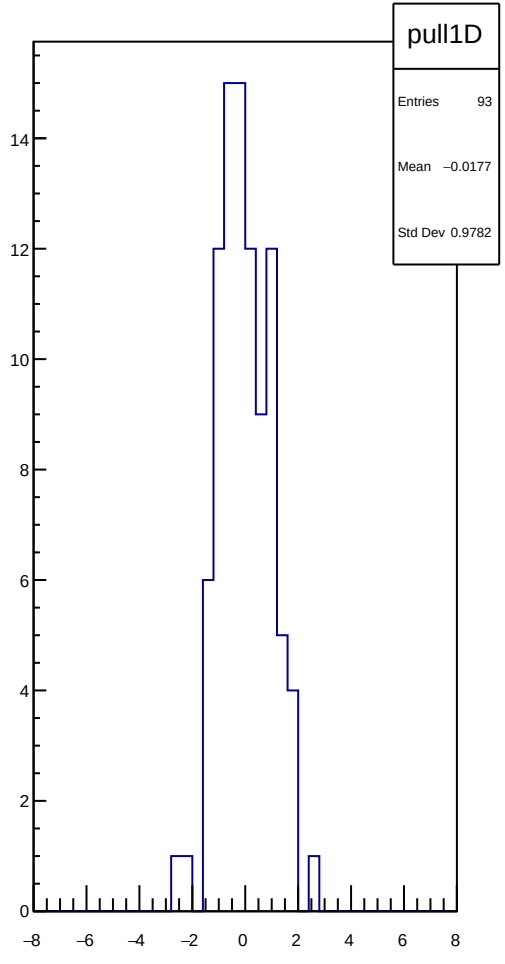
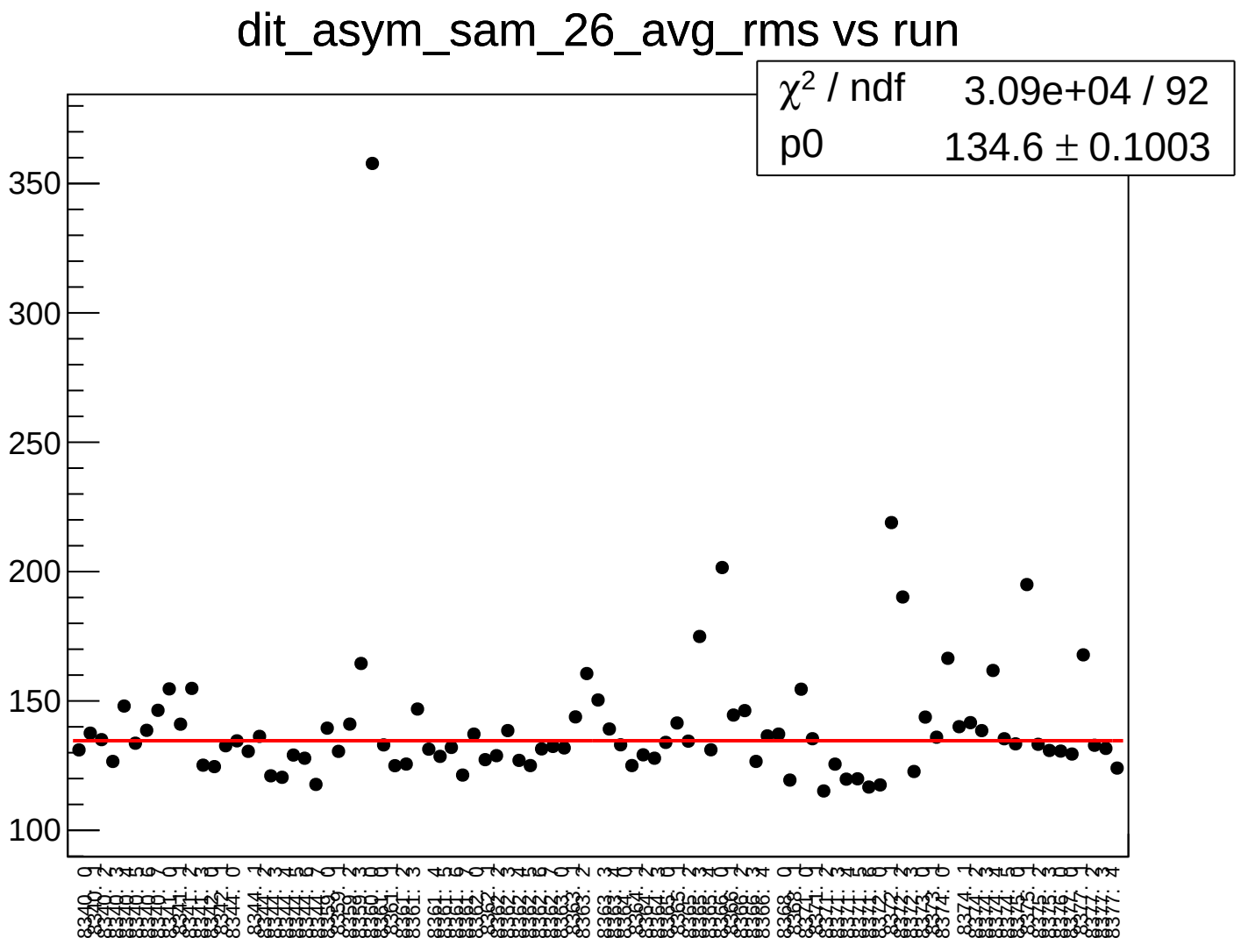
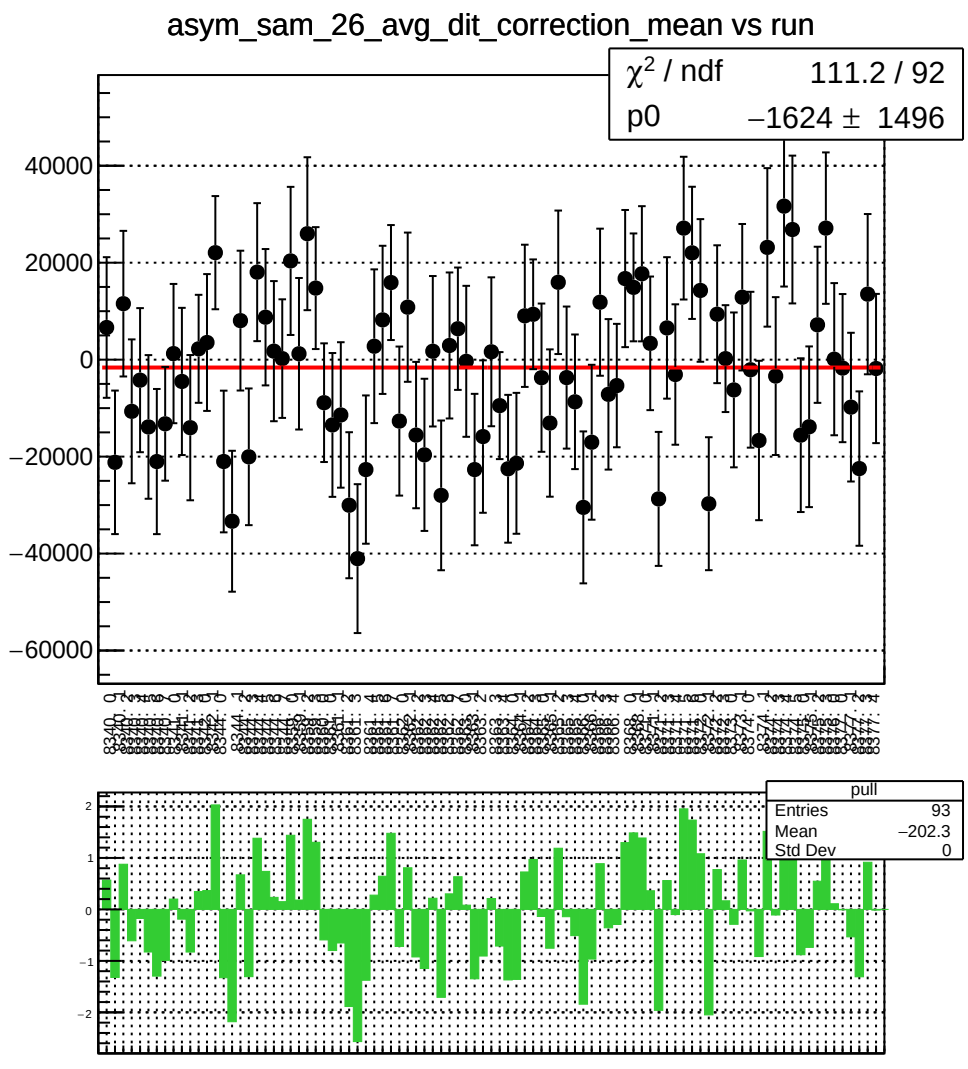
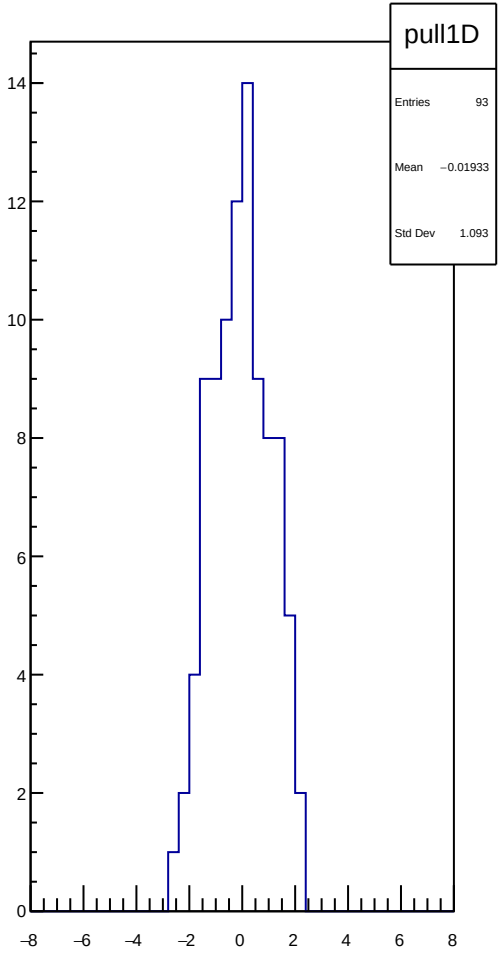
1350
1300
1250
1200

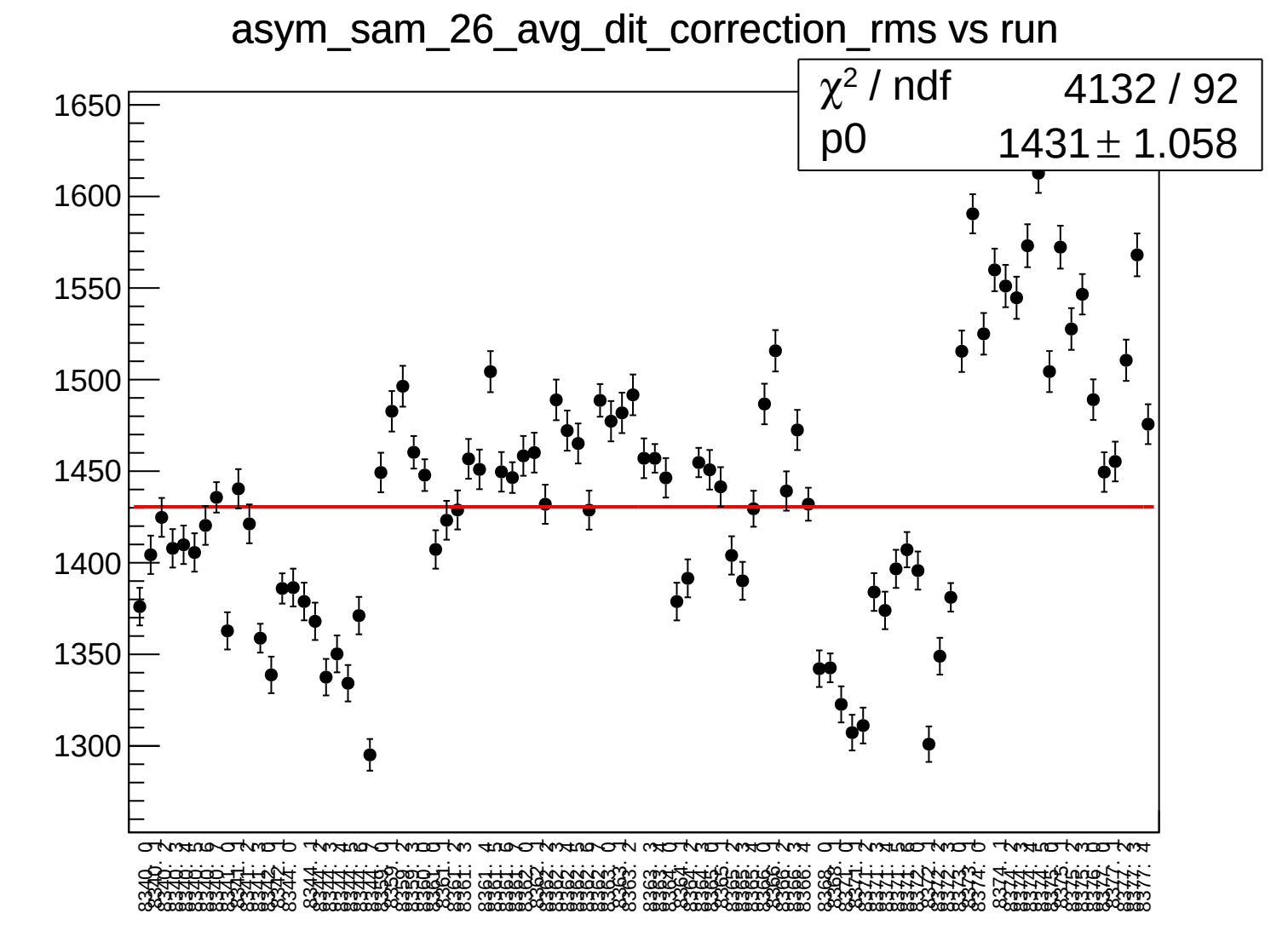

dit_asym_sam_26_avg_mean vs run
χ² / ndf 89.01 / 92
p0 216.2 ± 141.8
pull
Entries 93
Mean 52.95
Std Dev 82.41

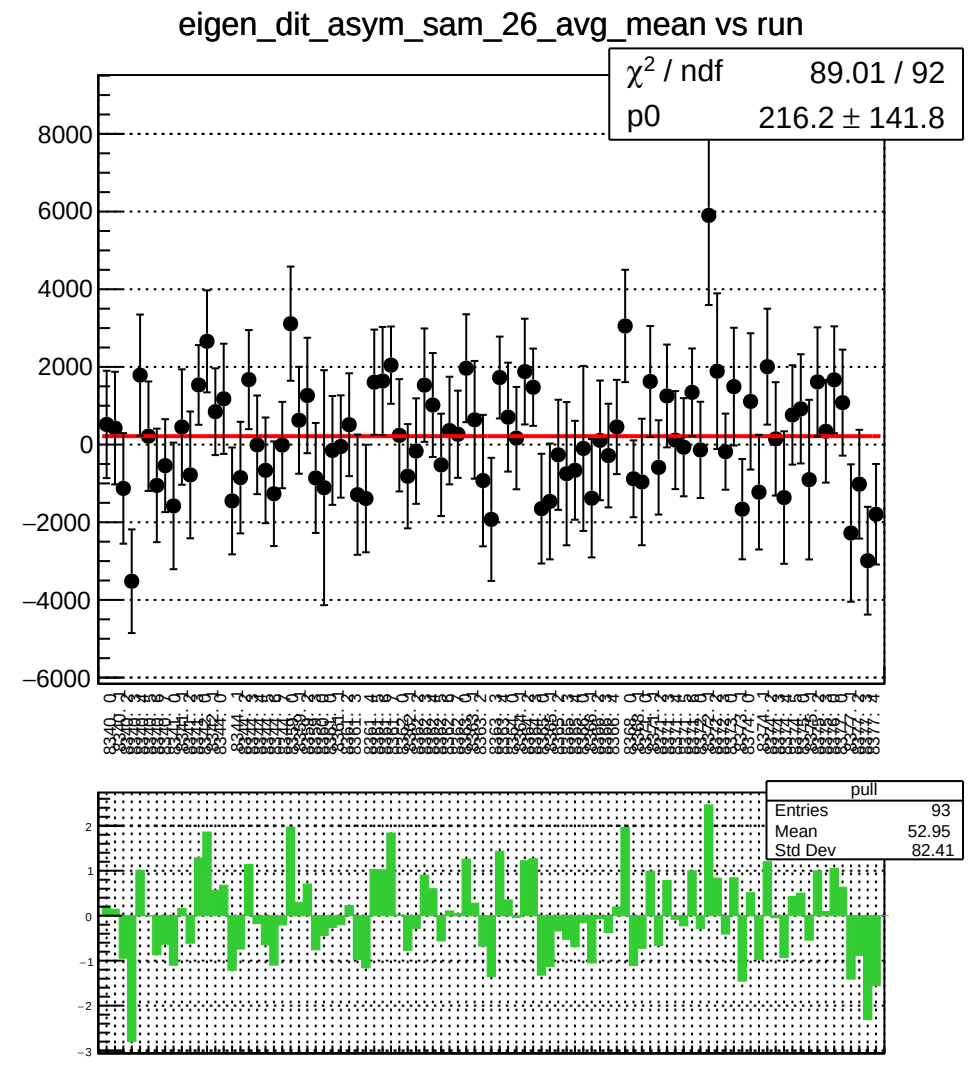

pull1D
Entries 93
Mean −0.0177
Std Dev 0.9782

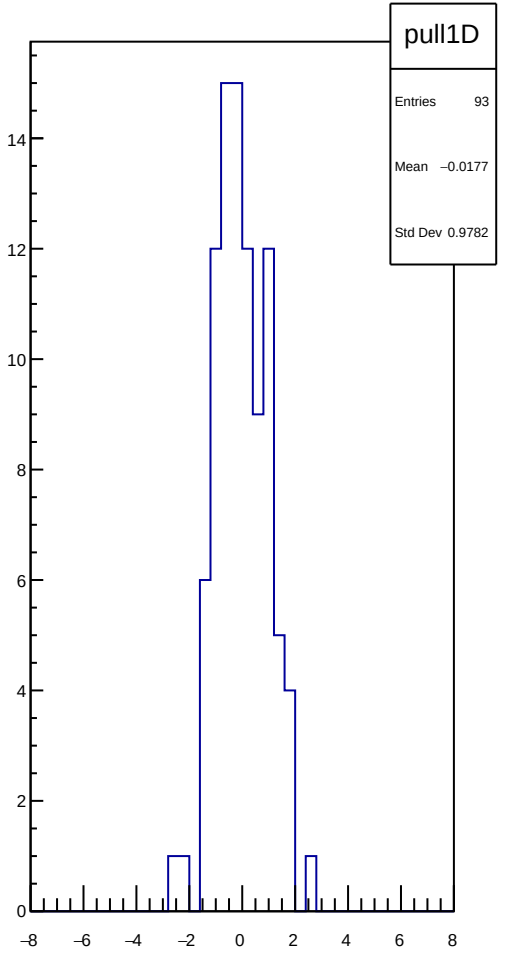

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.09e+04 / 92
p0 134.6 ± 0.1003
350
300
250
200
150
100

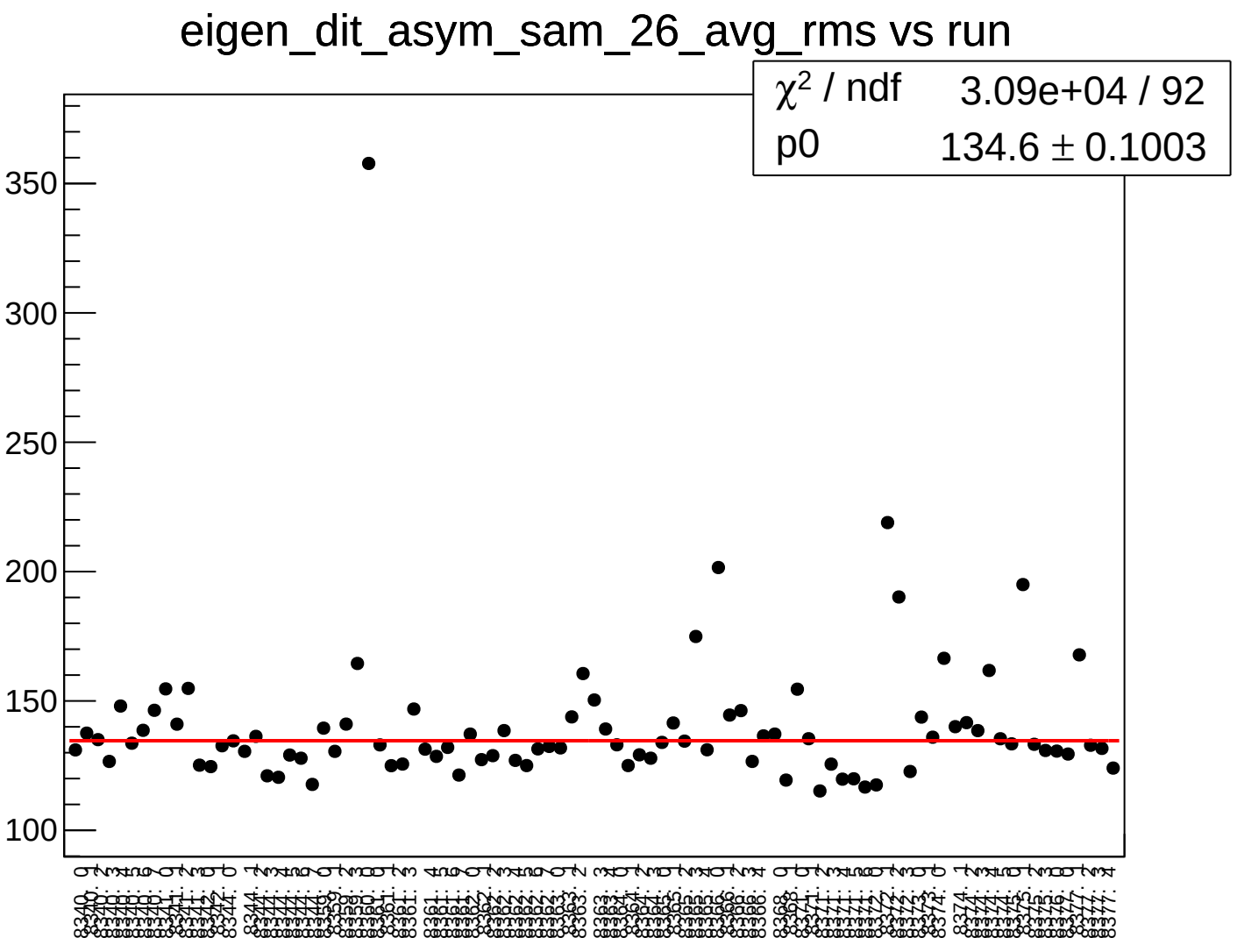

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 111.2 / 92
p0 −1624 ± 1496
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −202.3
Std Dev 0
2
1
0
−1
−2

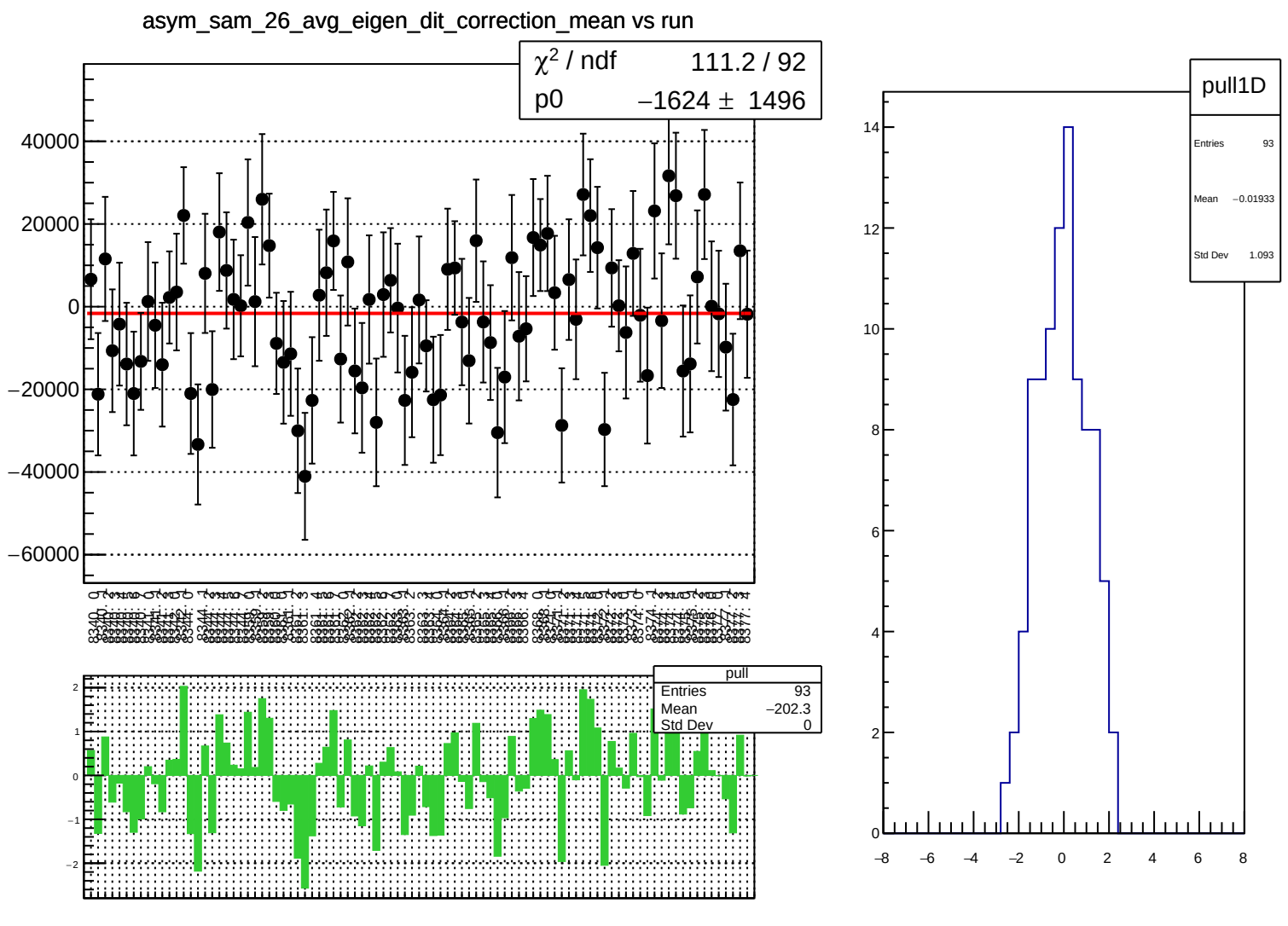

pull1D
Entries 93
Mean −0.01933
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

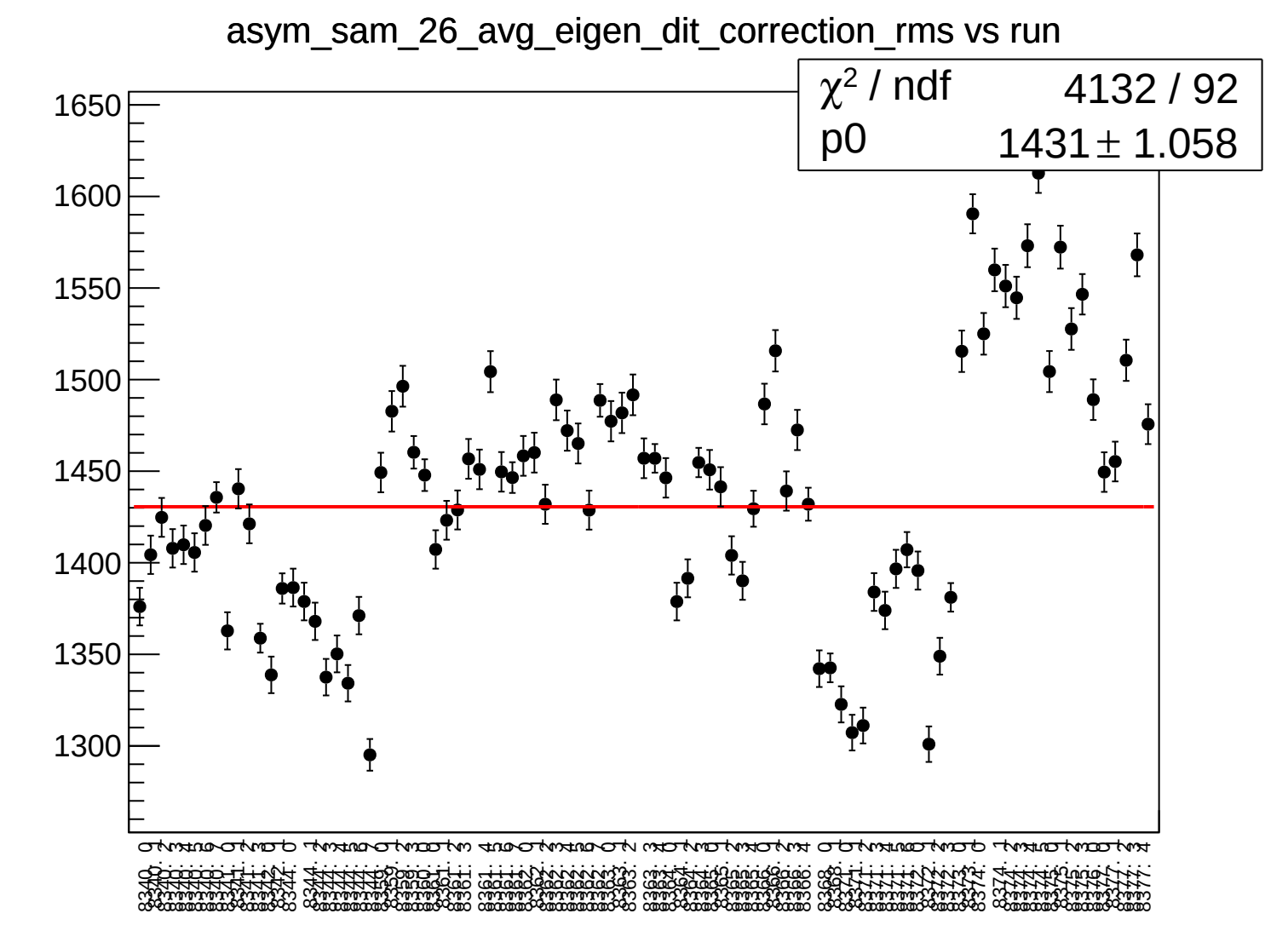

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4132 / 92
p0 1431 ± 1.058
1650
1600
1550
1500
1450
1400
1350
1300

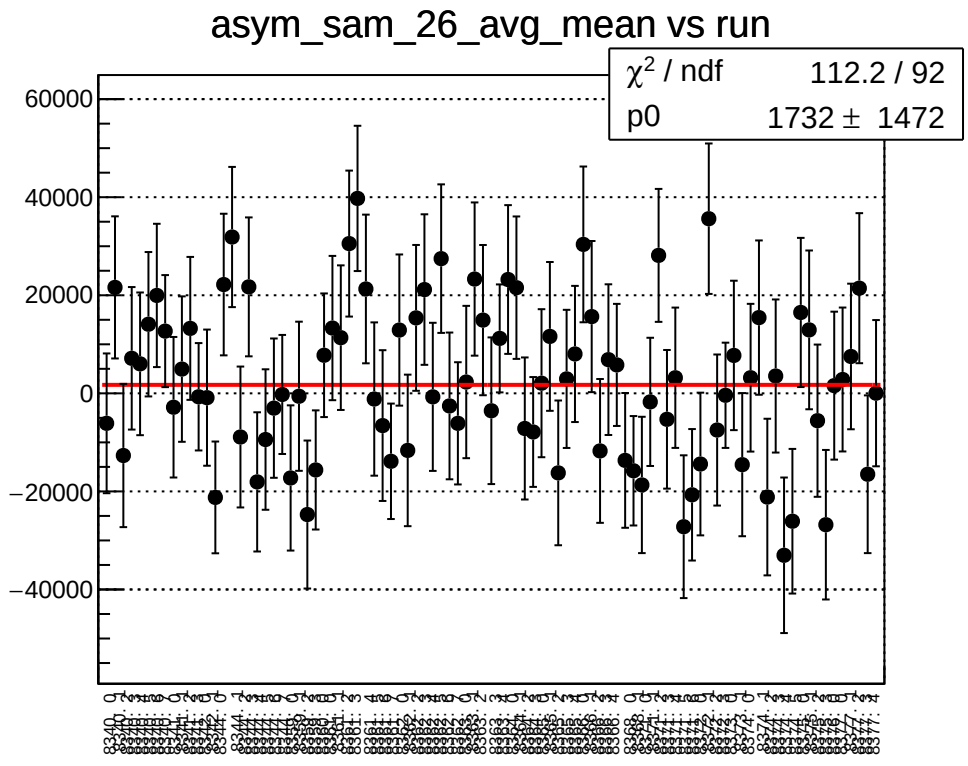

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 89.01 / 92
p0 216.2 ± 141.8
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 52.95
Std Dev 82.41
2
1
0
−1
−2
−3

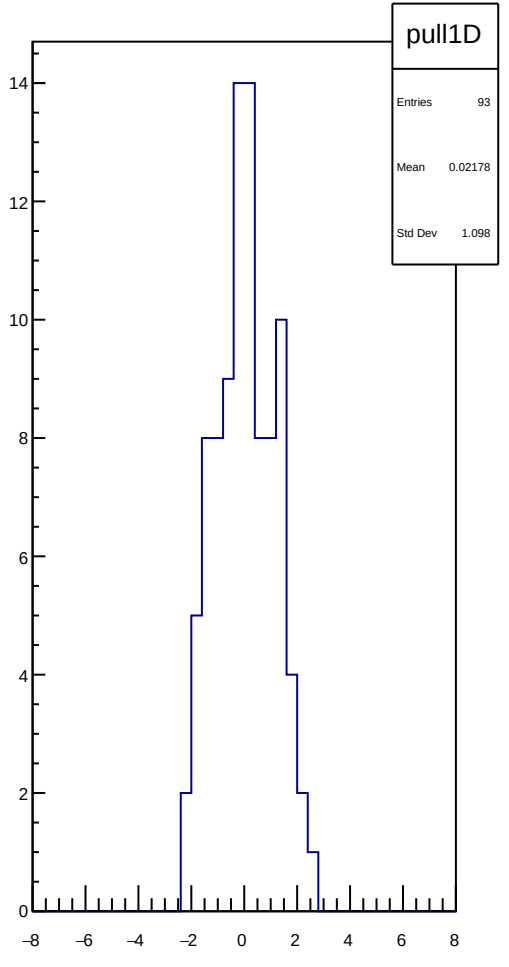

pull1D
Entries 93
Mean −0.0177
Std Dev 0.9782
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

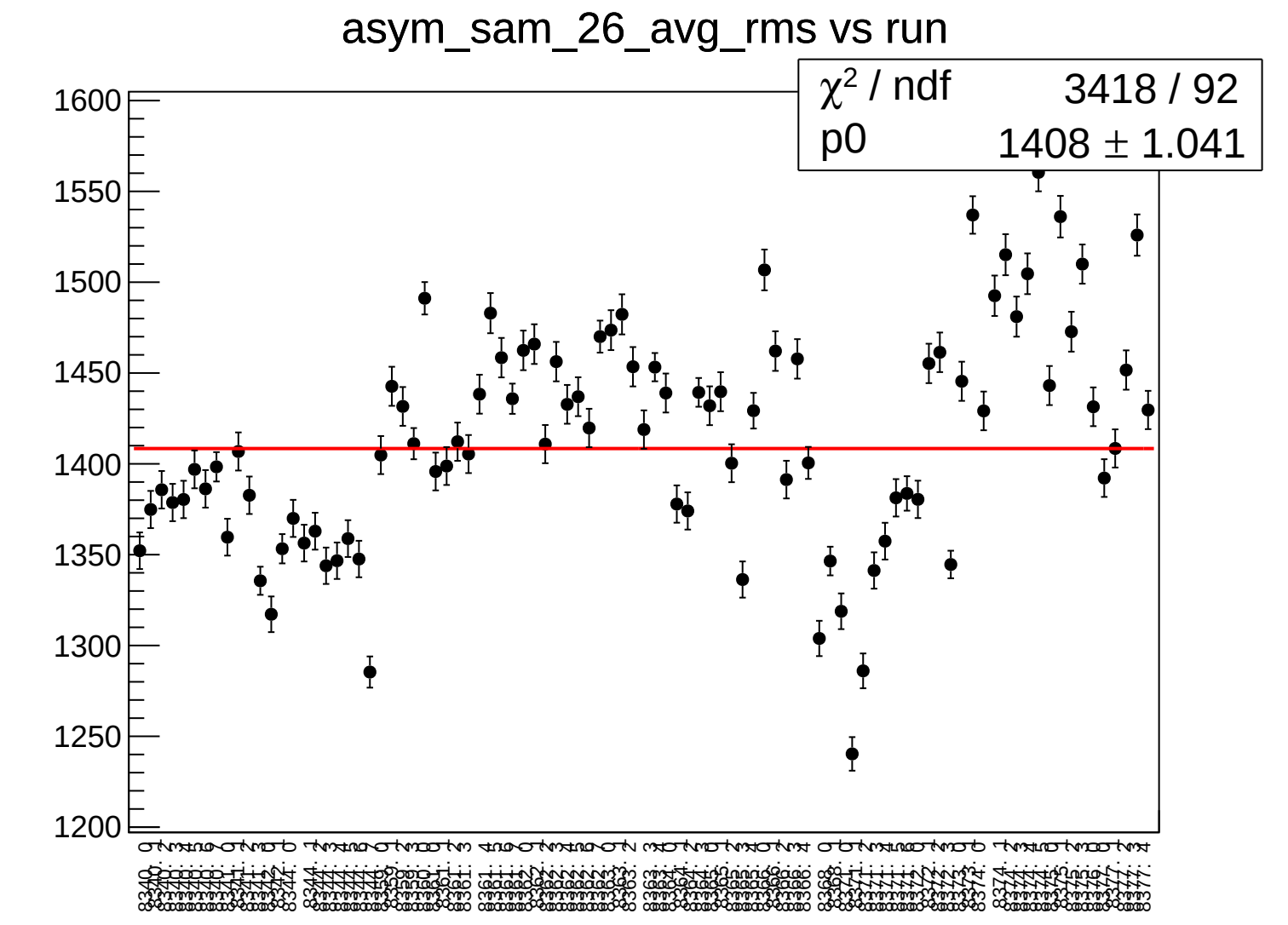

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.09e+04 / 92
p0 134.6 ± 0.1003
350
300
250
200
150
100

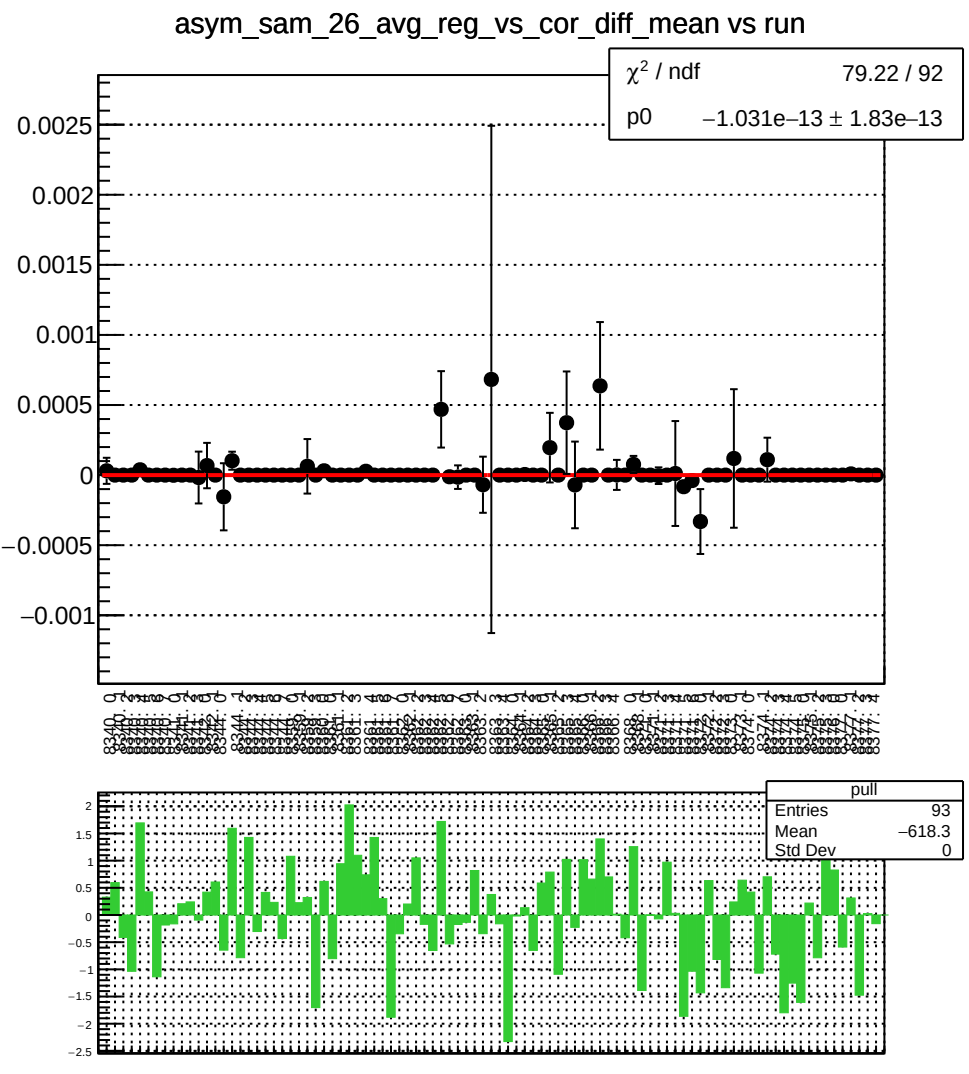

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 111.2 / 92
p0 −1624 ± 1496
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −202.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01933
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

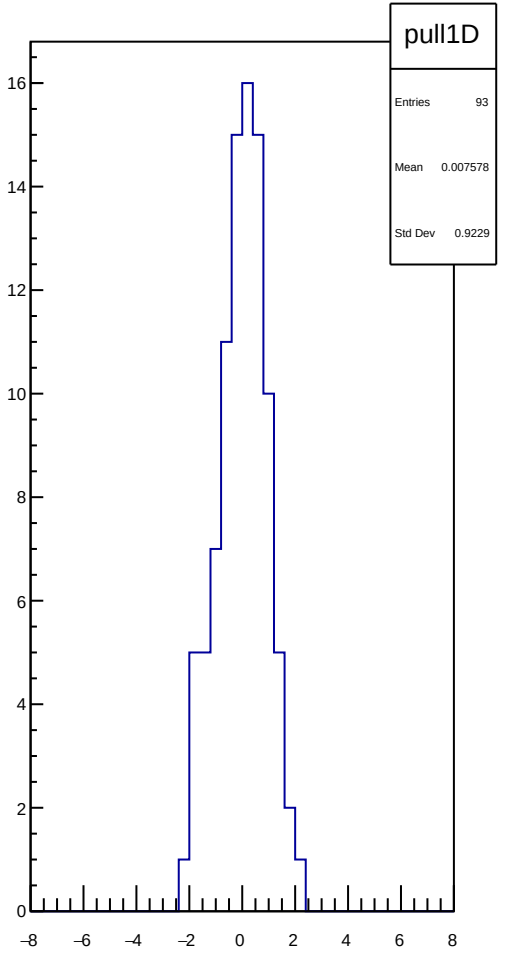

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4132 / 92
p0 1431 ± 1.058
1650
1600
1550
1500
1450
1400
1350
1300

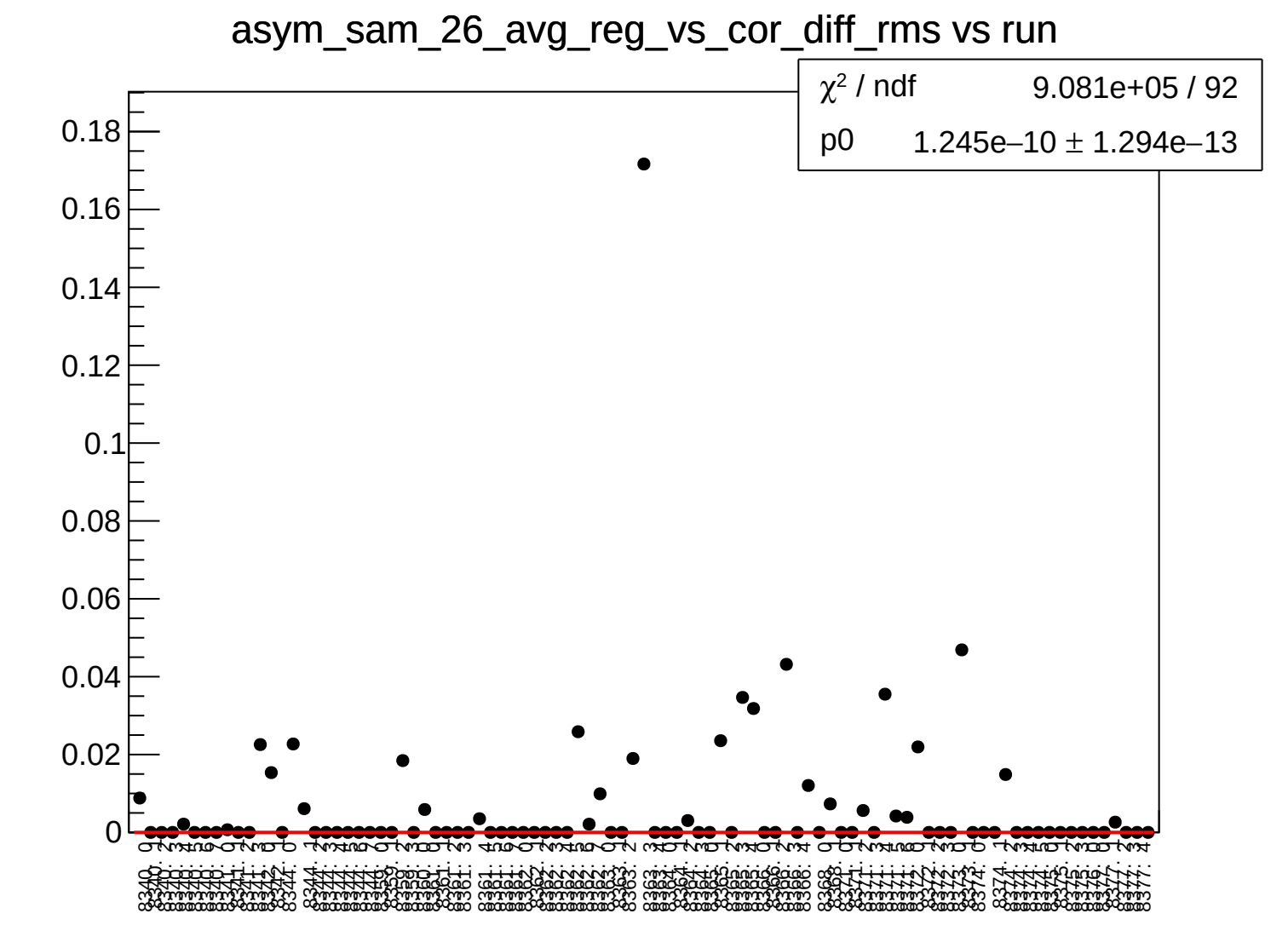

asym_sam_26_avg_mean vs run
χ² / ndf 112.2 / 92
p0 1732 ± 1472
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −178.1
Std Dev 0
2
1
0
−1
−2

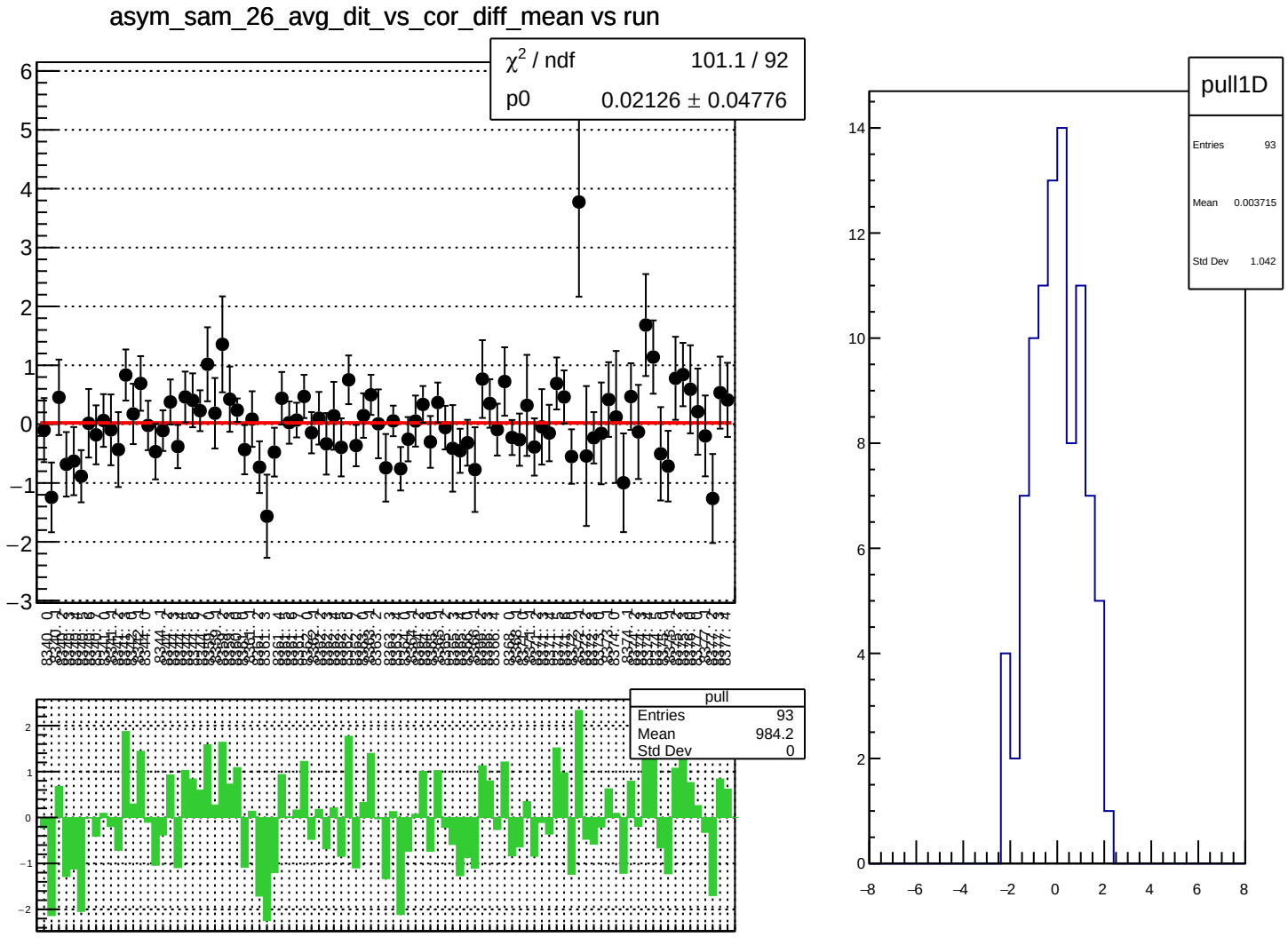

pull1D
Entries 93
Mean 0.02178
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

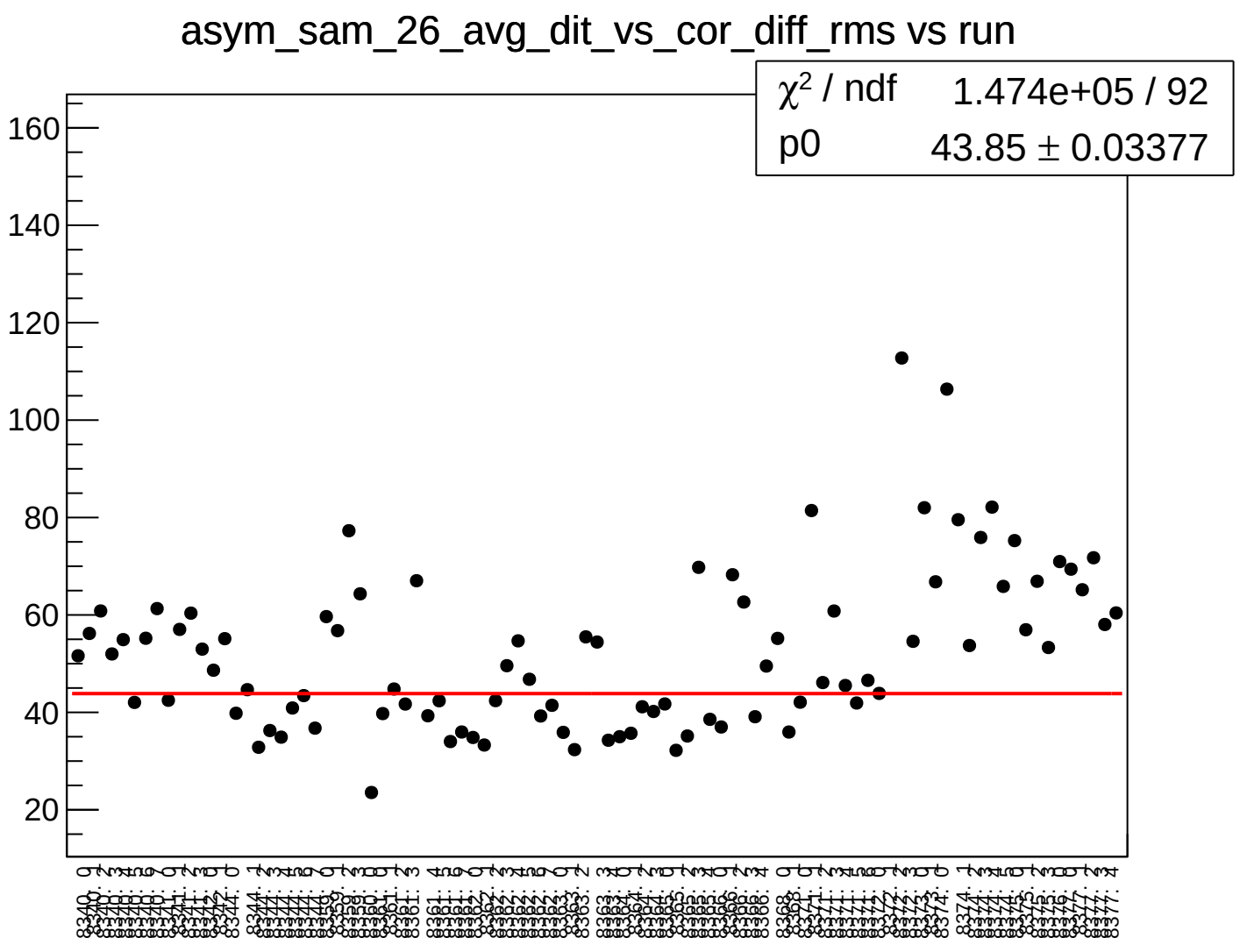

asym_sam_26_avg_rms vs run
χ² / ndf 3418 / 92
p0 1408 ± 1.041
1600
1550
1500
1450
1400
1350
1300
1250
1200

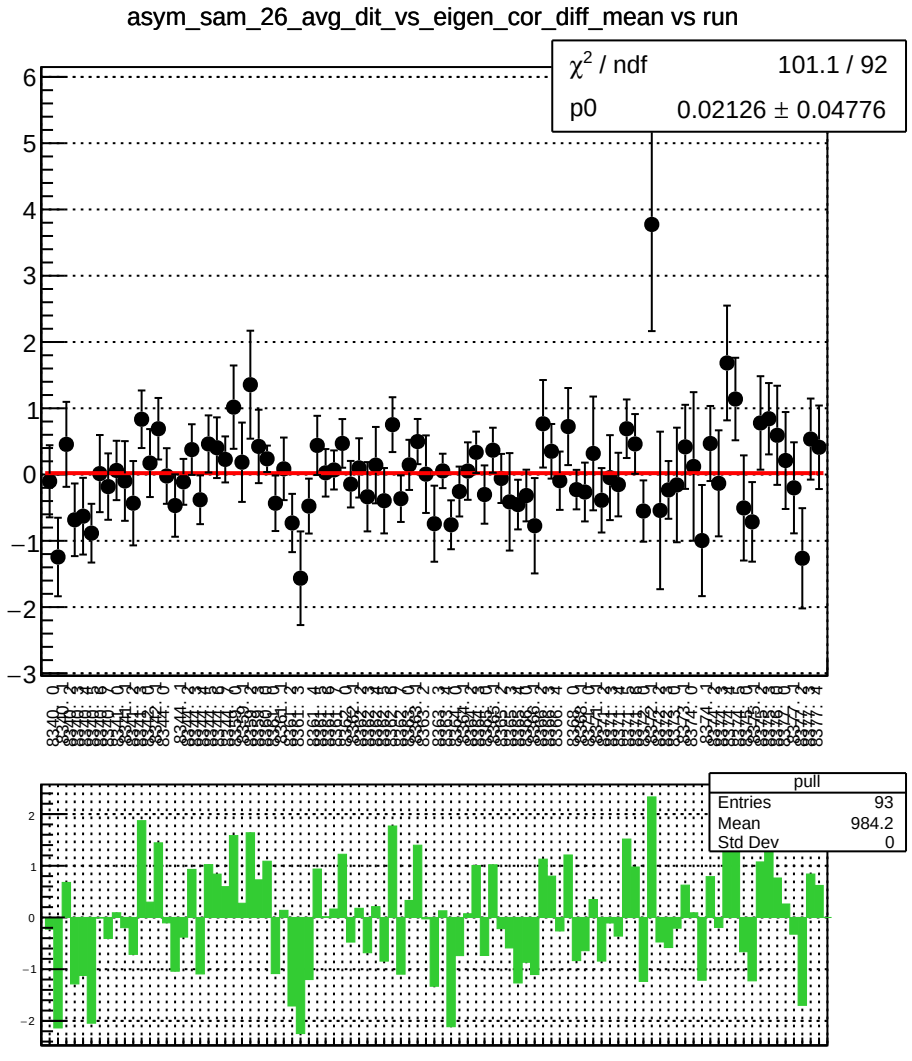

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.22 / 92
p0 −1.031e−13 ± 1.83e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −618.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

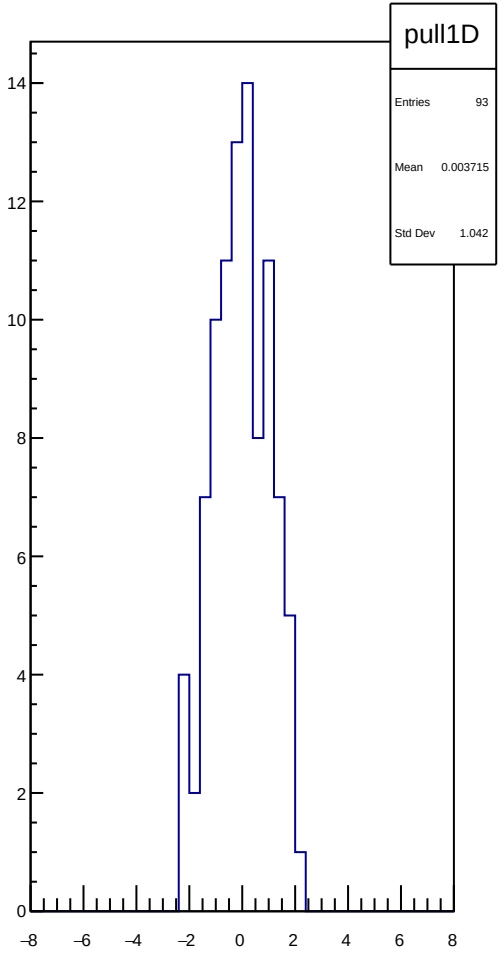

pull1D
Entries 93
Mean 0.007578
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

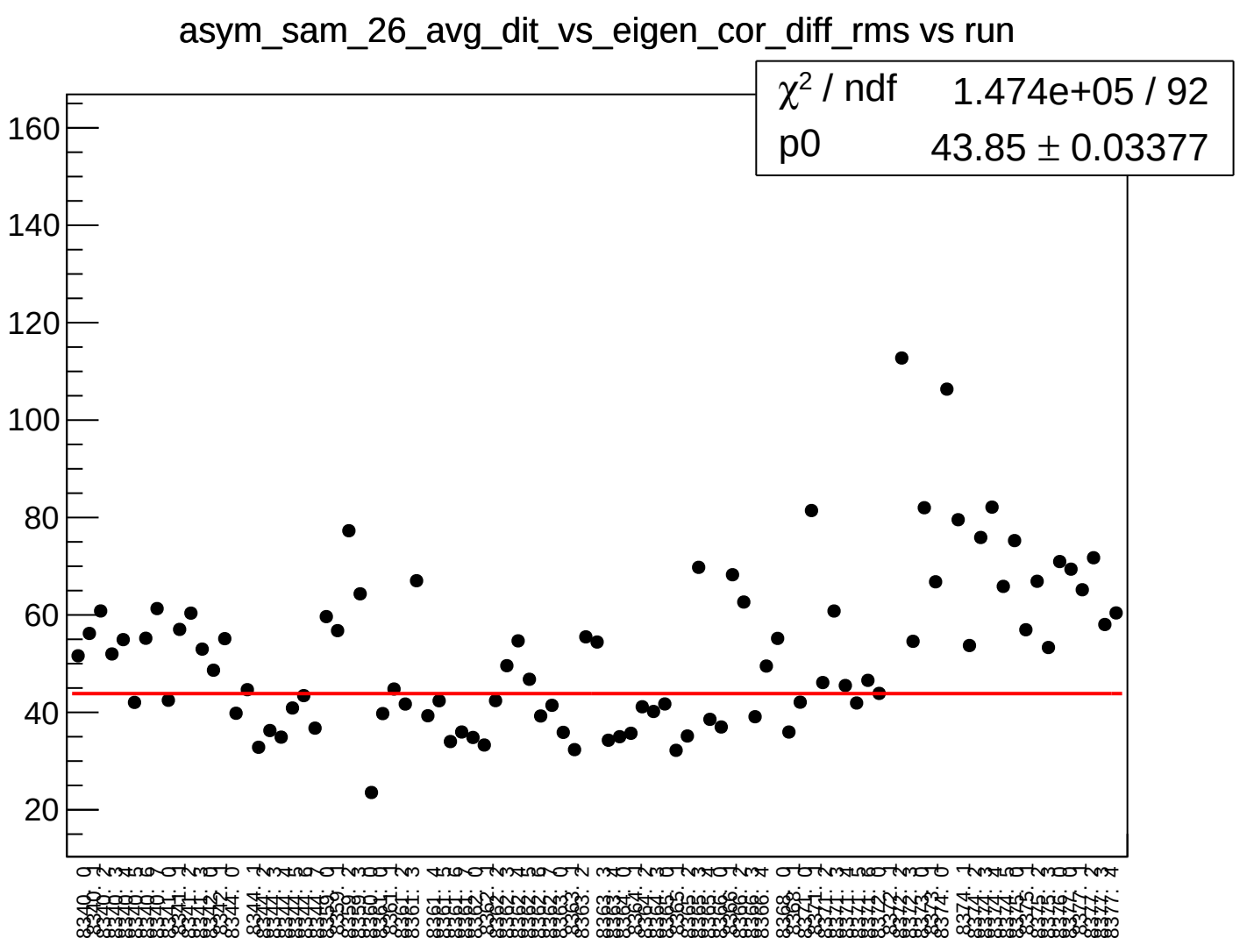

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.081e+05 / 92
p0 1.245e−10 ± 1.294e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

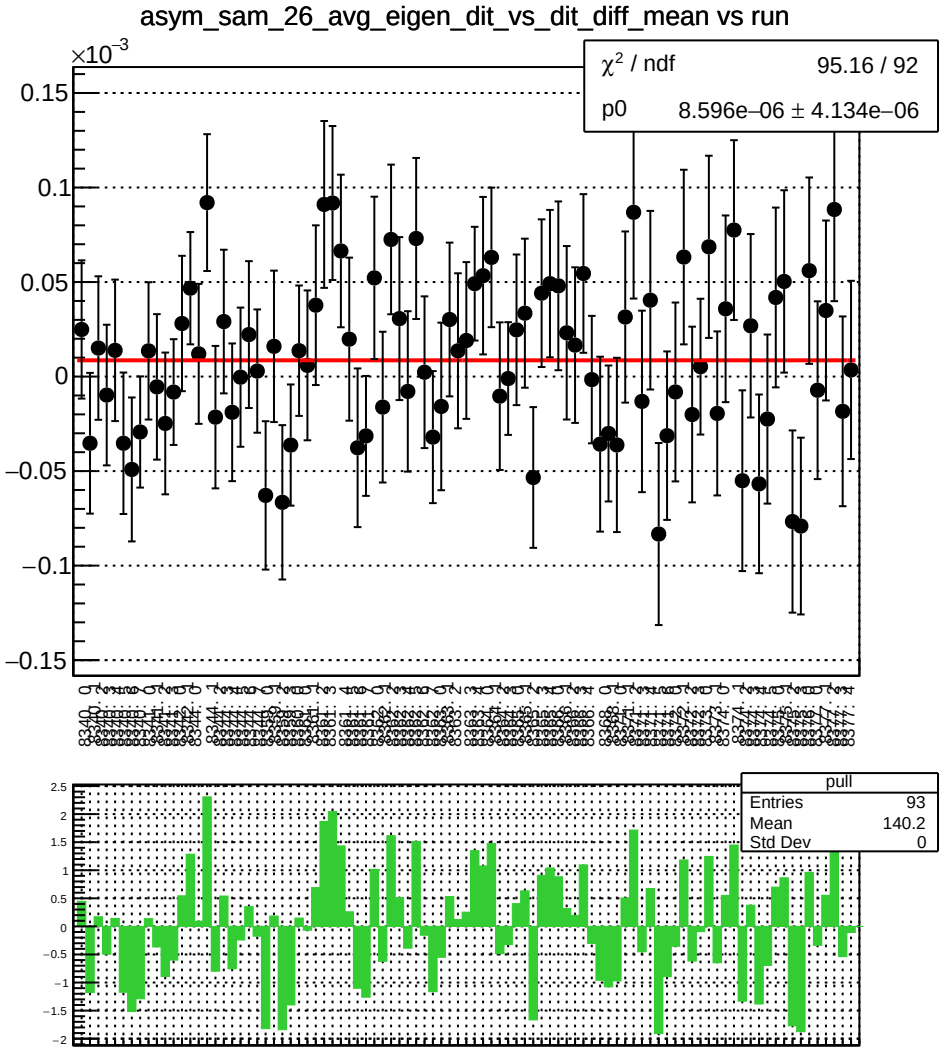

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 0.02126 ± 0.04776
pull
Entries 93
Mean 984.2
Std Dev 0
pull1D
Entries 93
Mean 0.003715
Std Dev 1.042

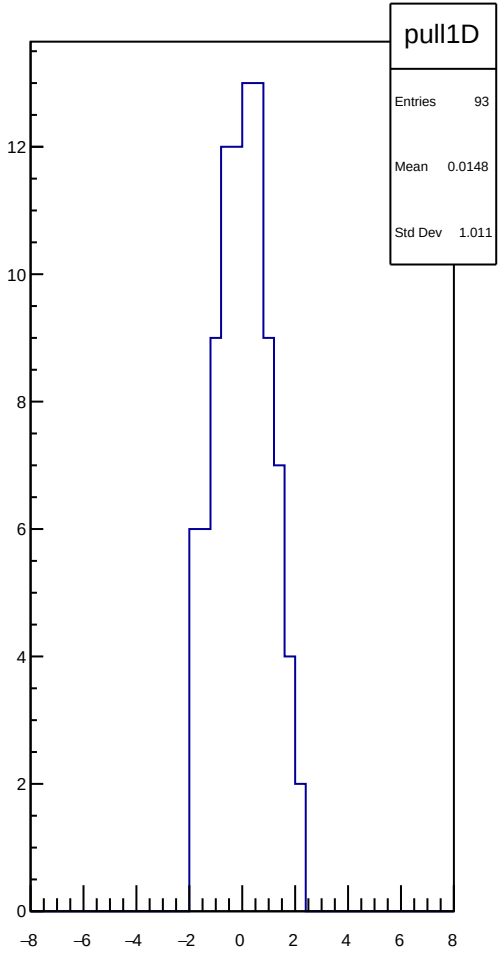

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 92
p0 43.85 ± 0.03377
160
140
120
100
80
60
40
20

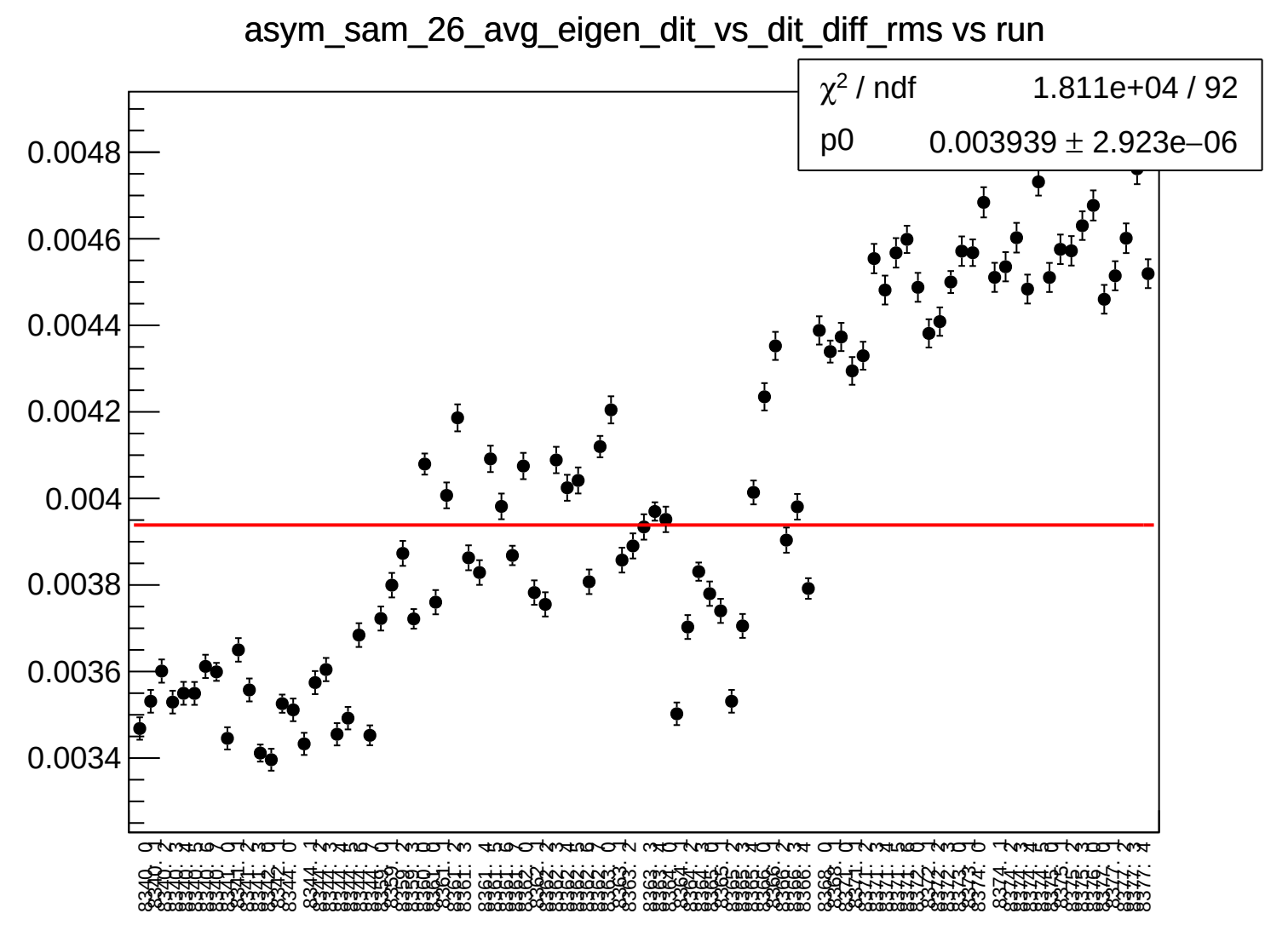

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 0.02126 ± 0.04776
pull
Entries 93
Mean 984.2
Std Dev 0

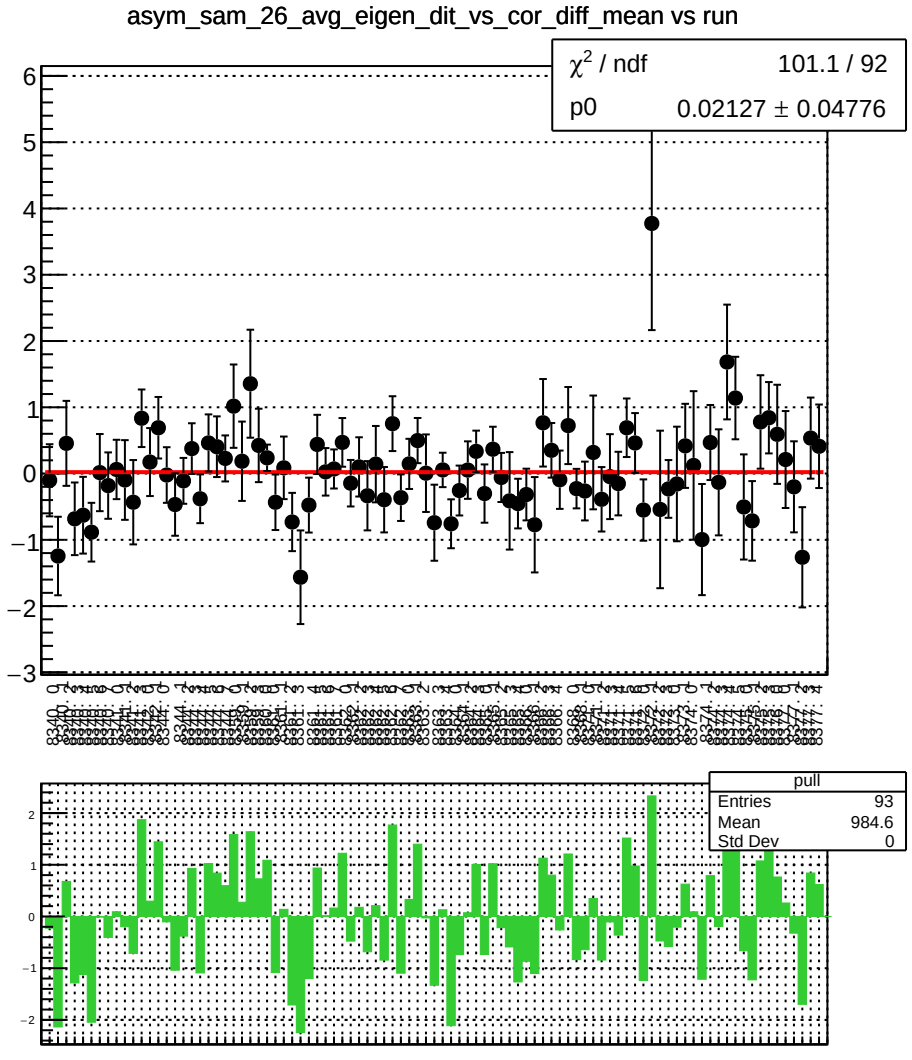

pull1D
Entries 93
Mean 0.003715
Std Dev 1.042

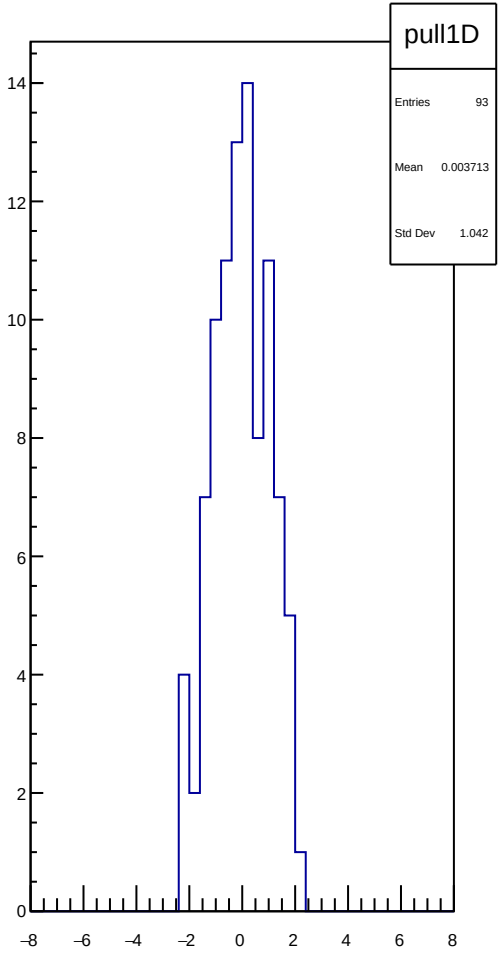

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 92
p0 43.85 ± 0.03377
160
140
120
100
80
60
40
20

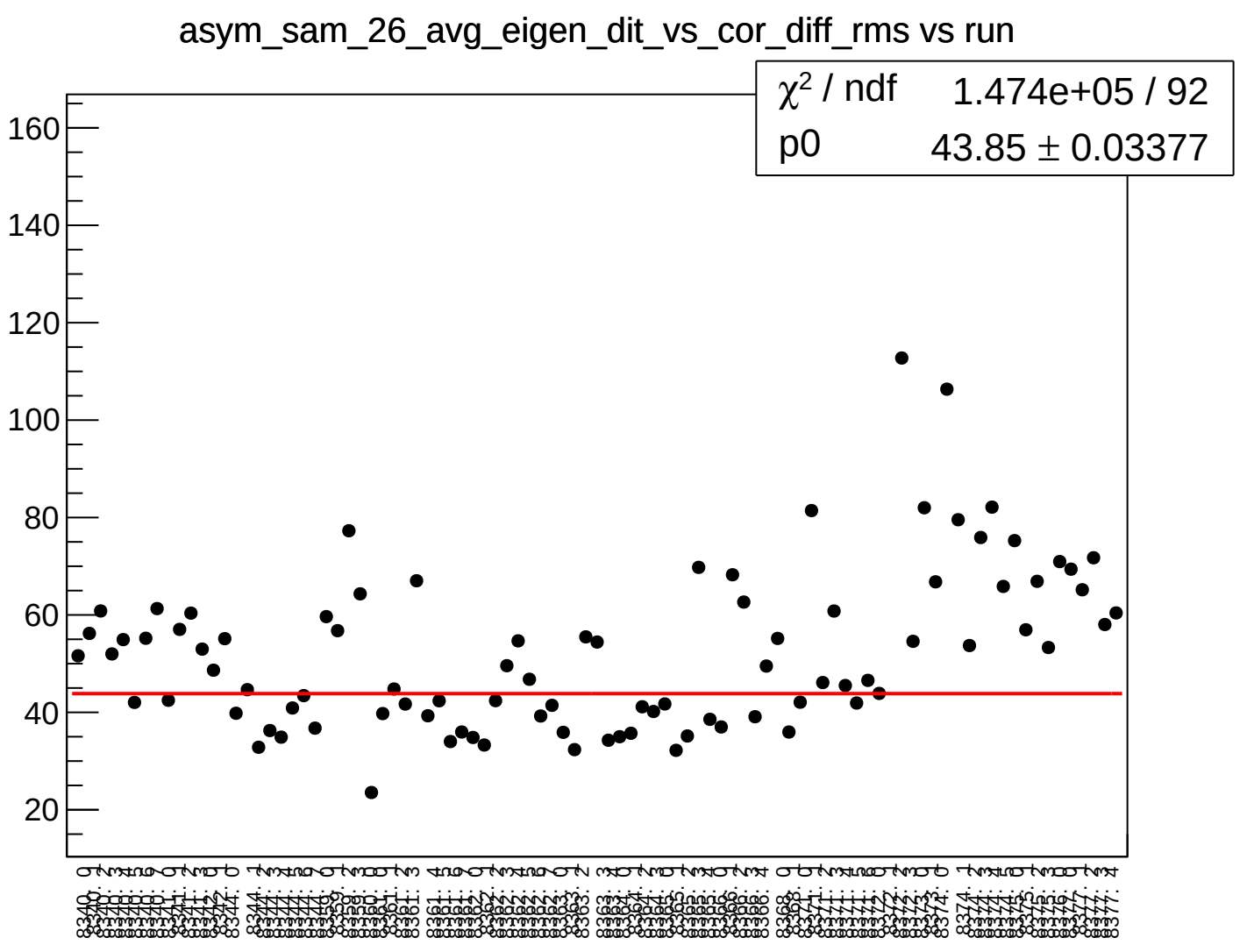

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.16 / 92
p0 8.596e−06 ± 4.134e−06
pull
Entries 93
Mean 140.2
Std Dev 0

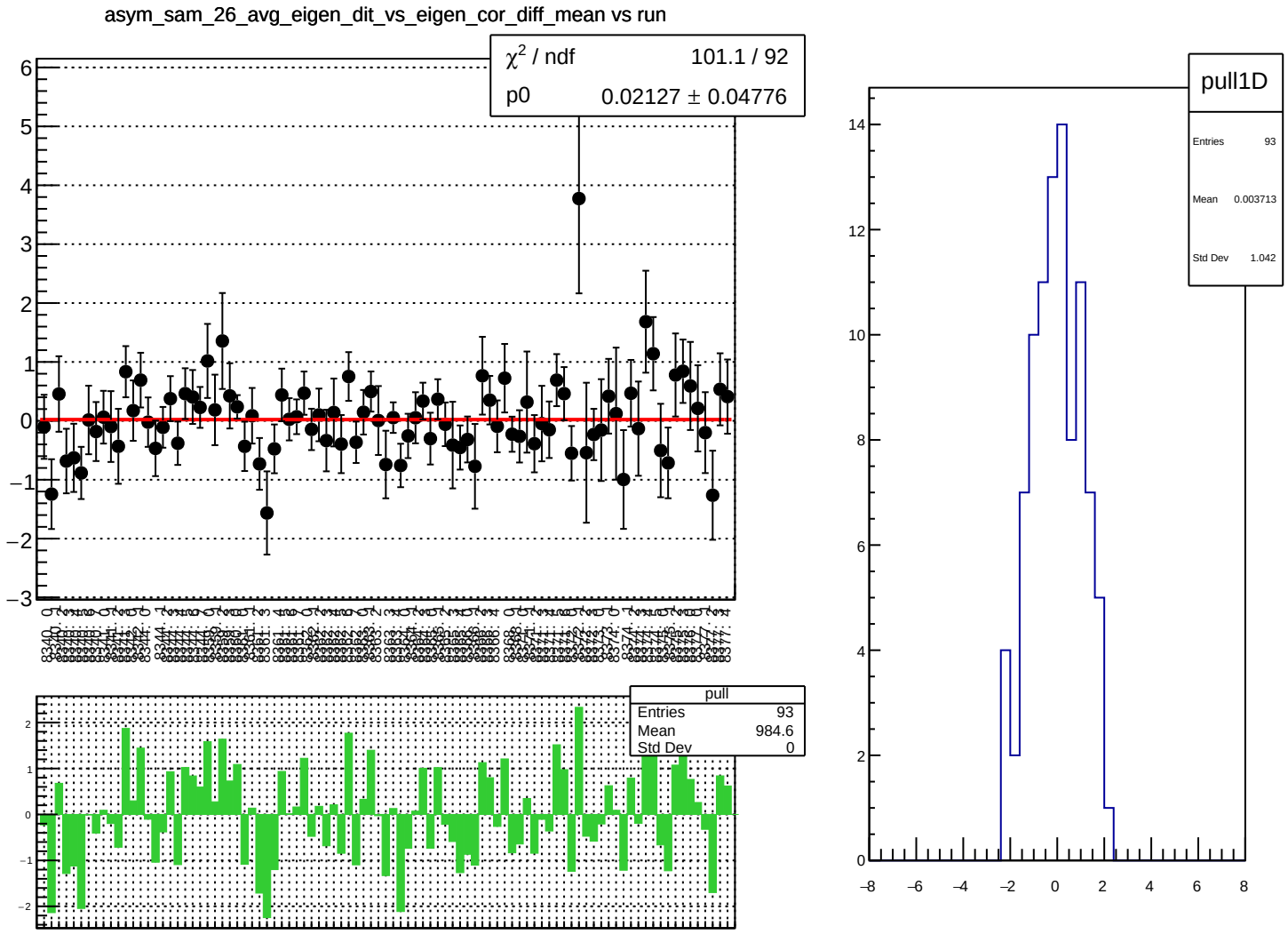

pull1D
Entries 93
Mean 0.0148
Std Dev 1.011

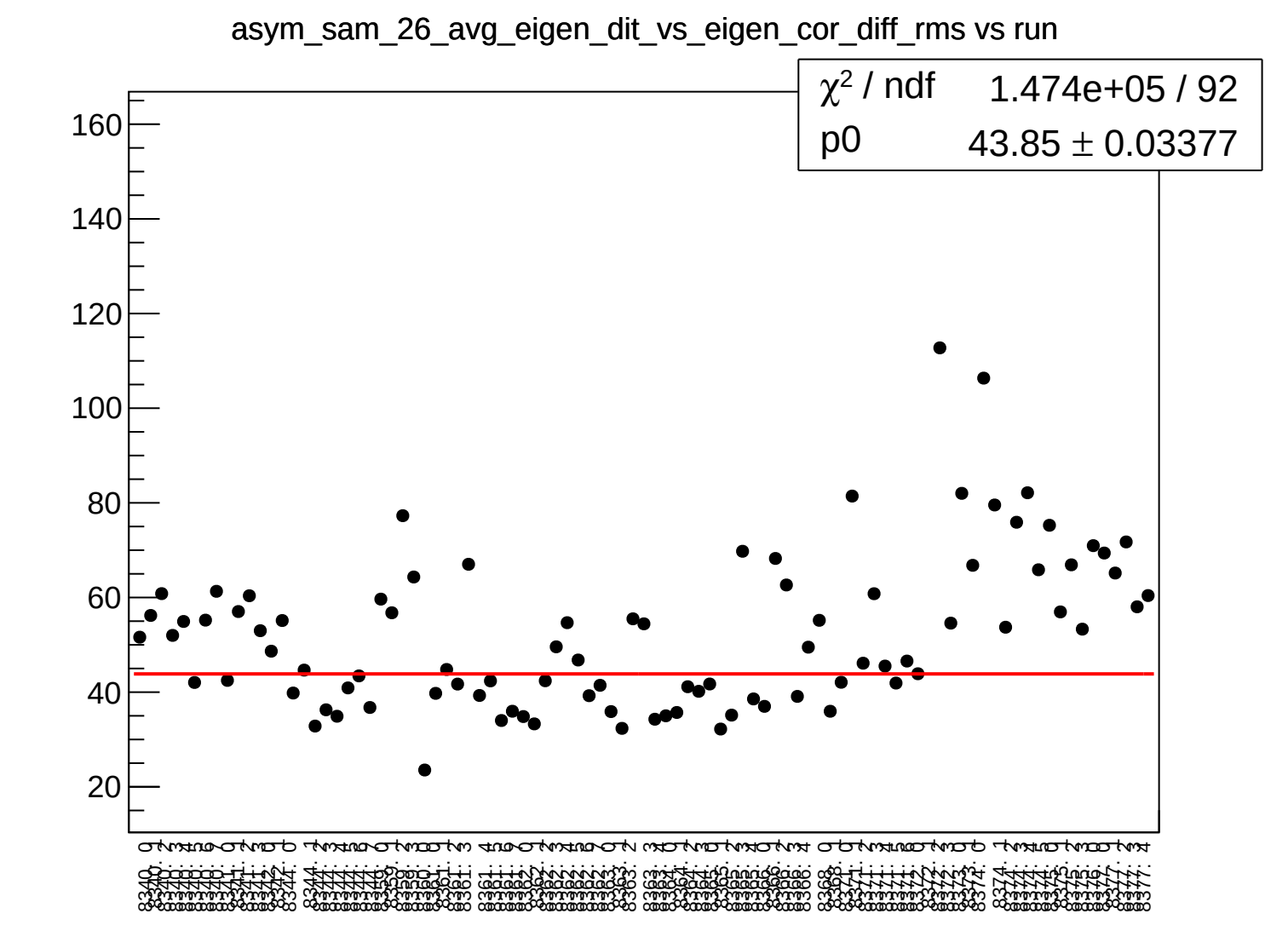

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.811e+04 / 92
p0 0.003939 ± 2.923e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

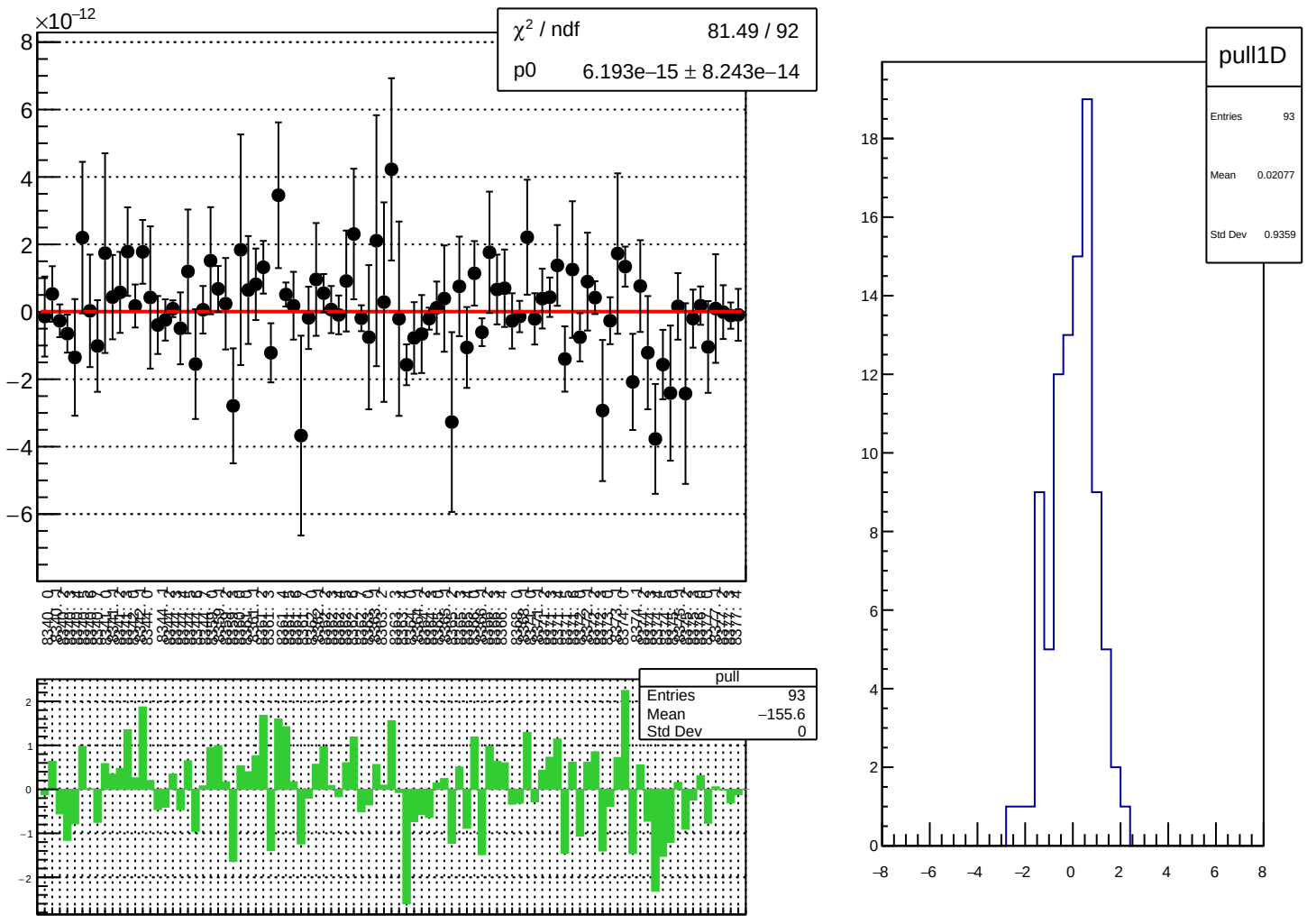

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 0.02127 ± 0.04776
pull
Entries 93
Mean 984.6
Std Dev 0

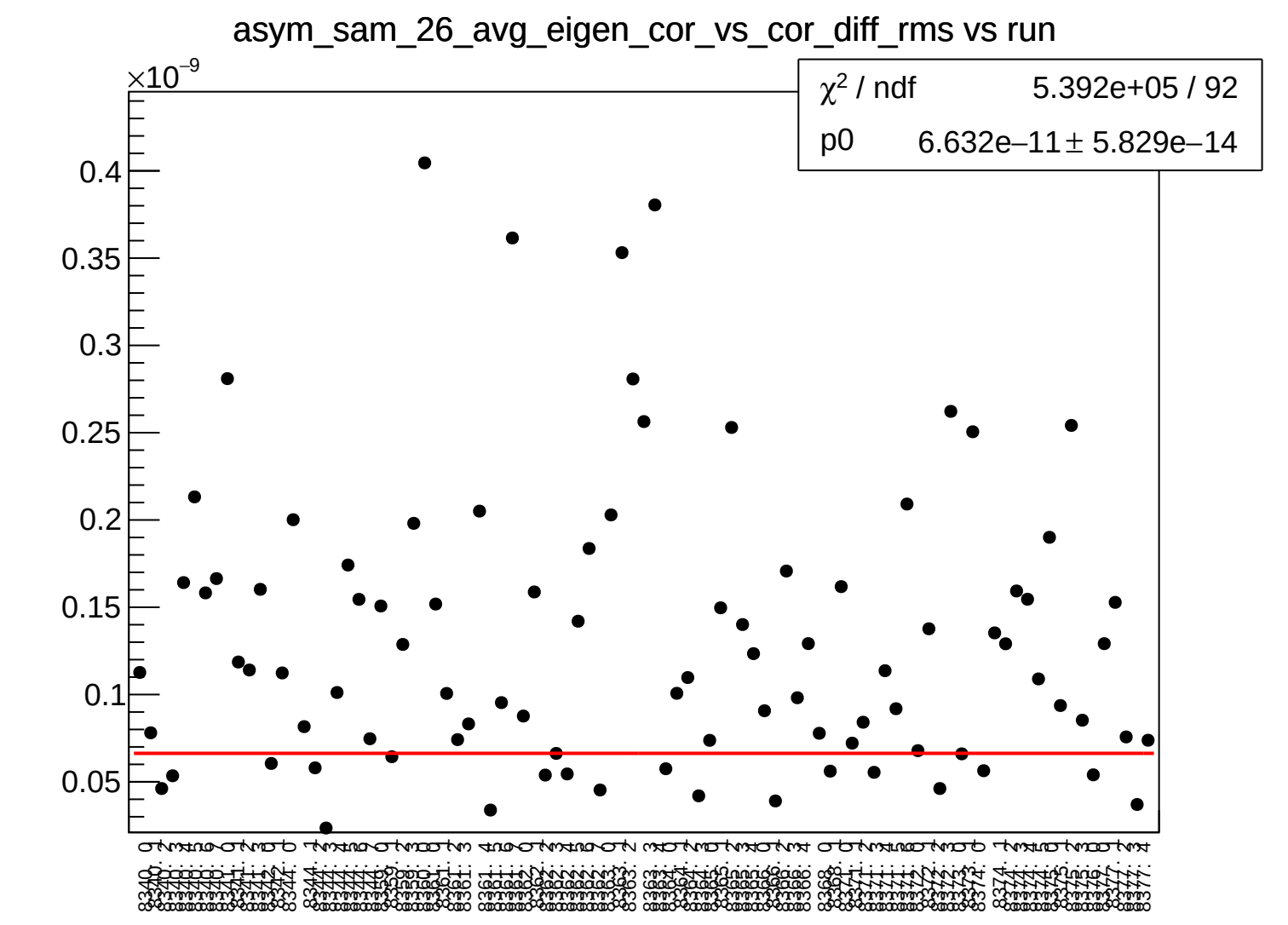

pull1D
Entries 93
Mean 0.003713
Std Dev 1.042

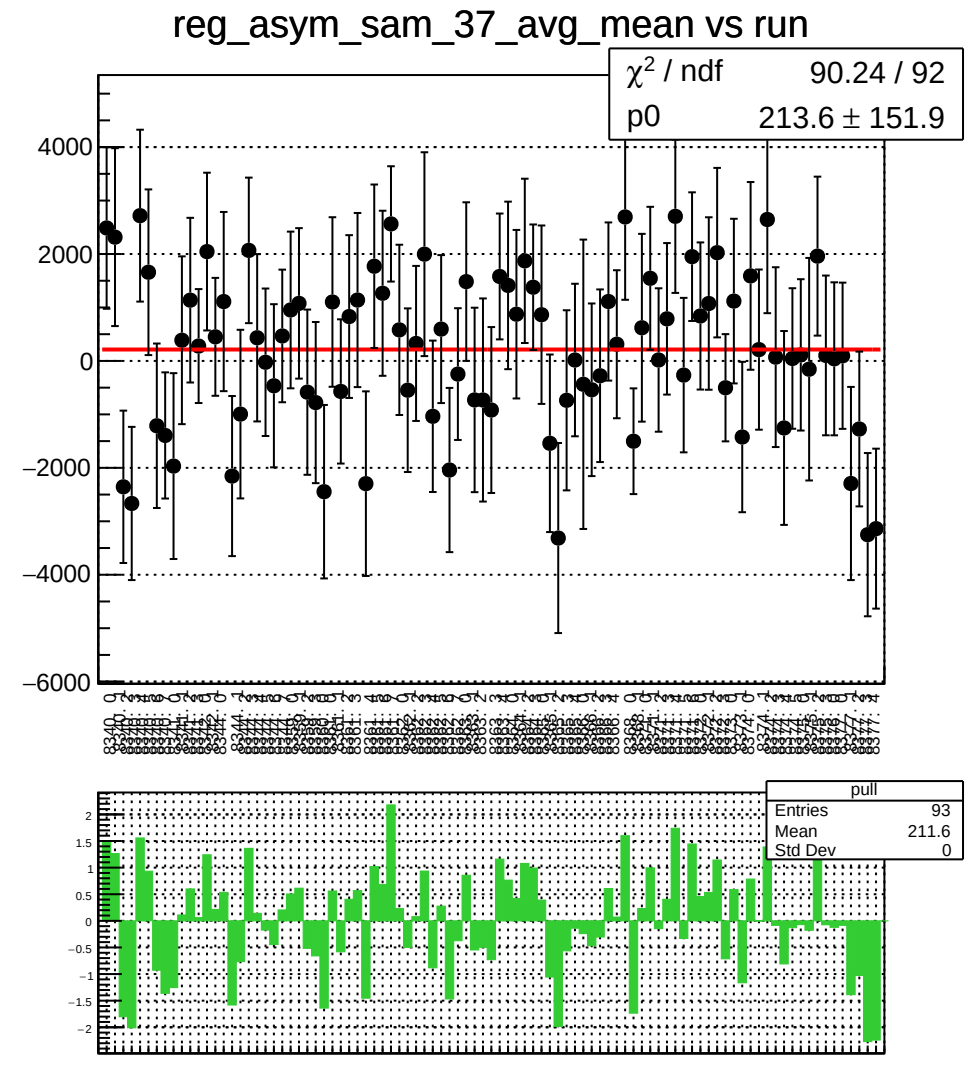

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 92
p0 43.85 ± 0.03377
160
140
120
100
80
60
40
20

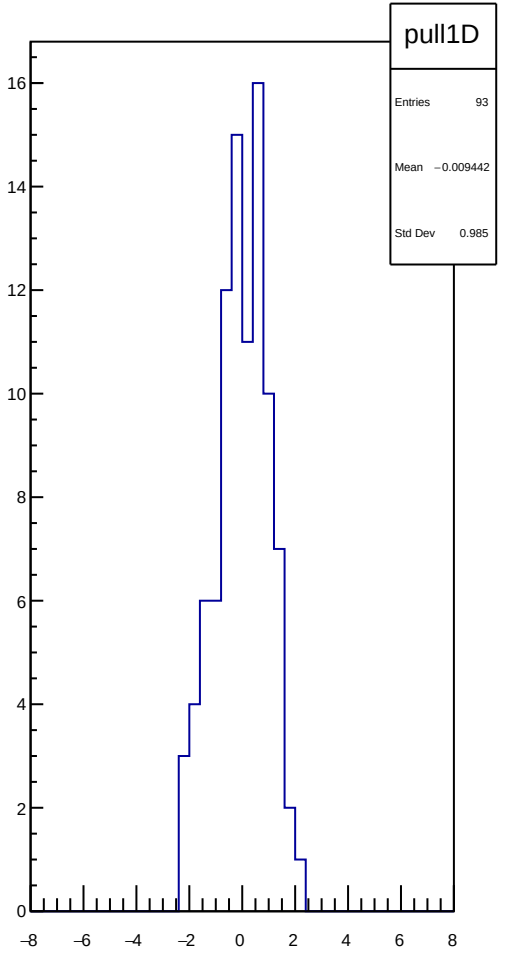

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 92
p0 0.02127 ± 0.04776
pull
Entries 93
Mean 984.6
Std Dev 0
pull1D
Entries 93
Mean 0.003713
Std Dev 1.042

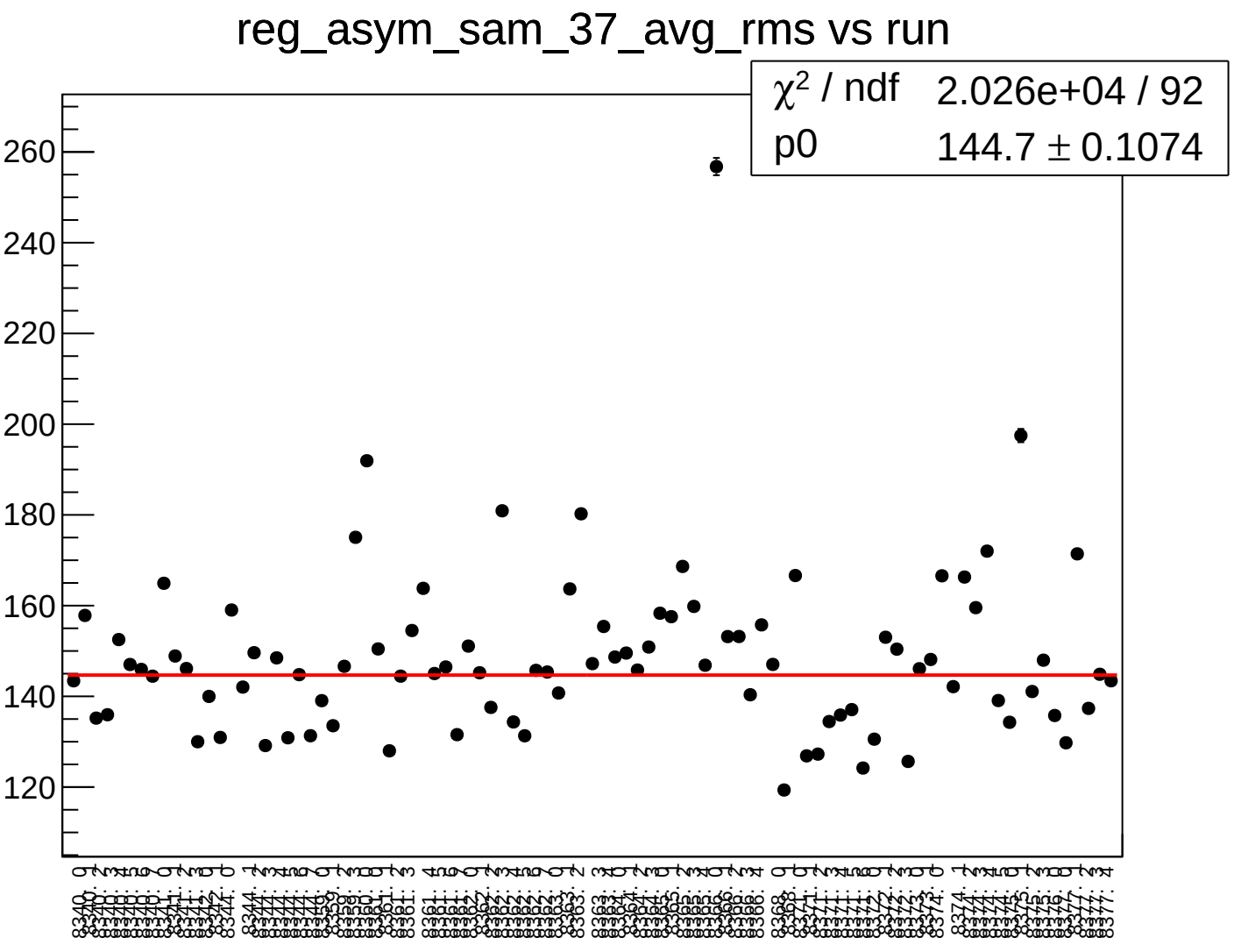

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.474e+05 / 92
p0 43.85 ± 0.03377
160
140
120
100
80
60
40
20

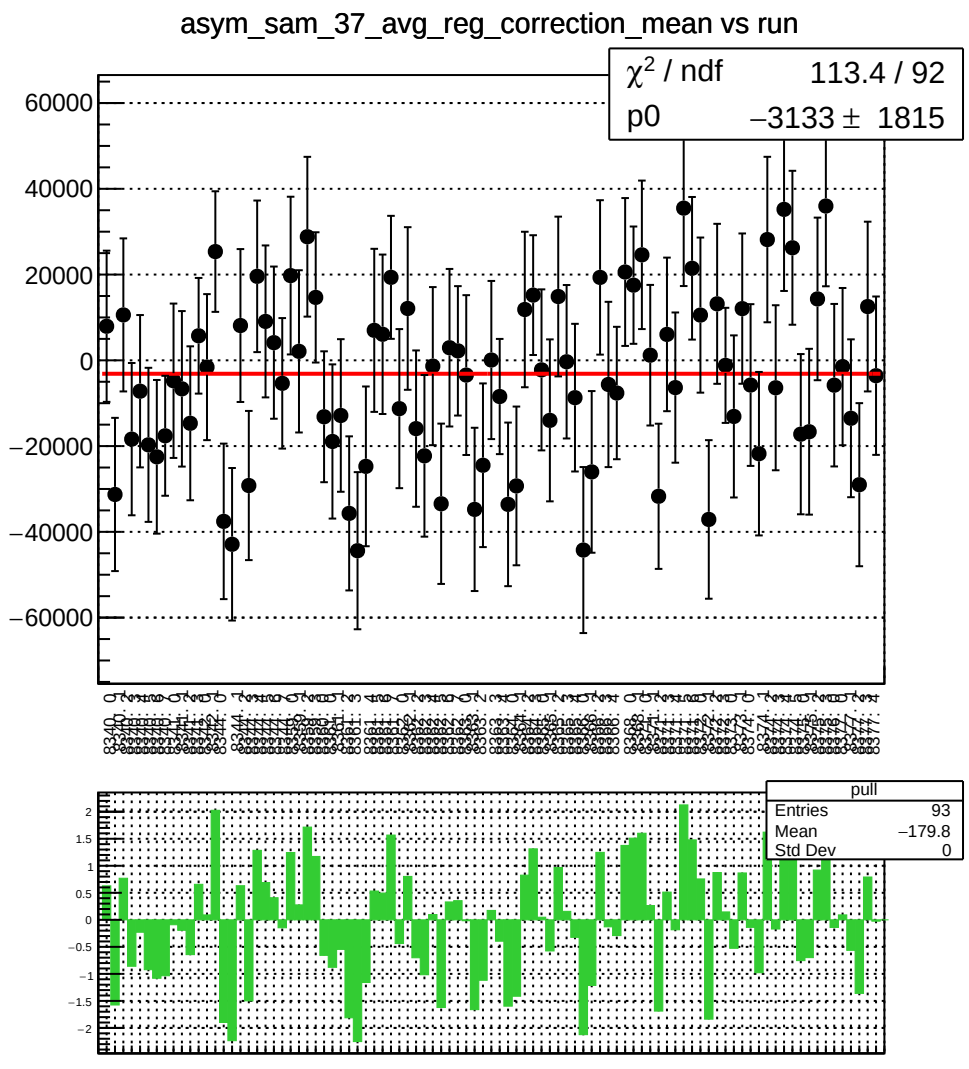

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.49 / 92
p0 6.193e−15 ± 8.243e−14
pull
Entries 93
Mean −155.6
Std Dev 0
pull1D
Entries 93
Mean 0.02077
Std Dev 0.9359

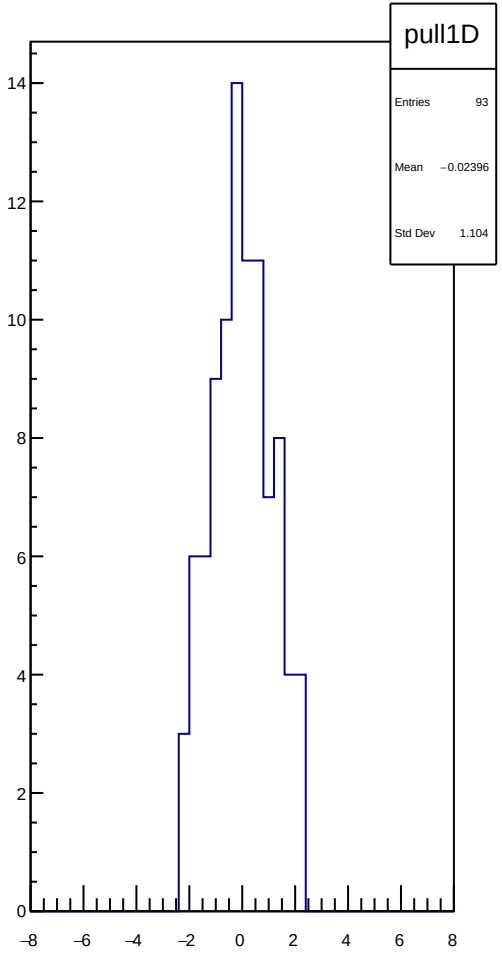

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.392e+05 / 92
p0 6.632e−11 ± 5.829e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

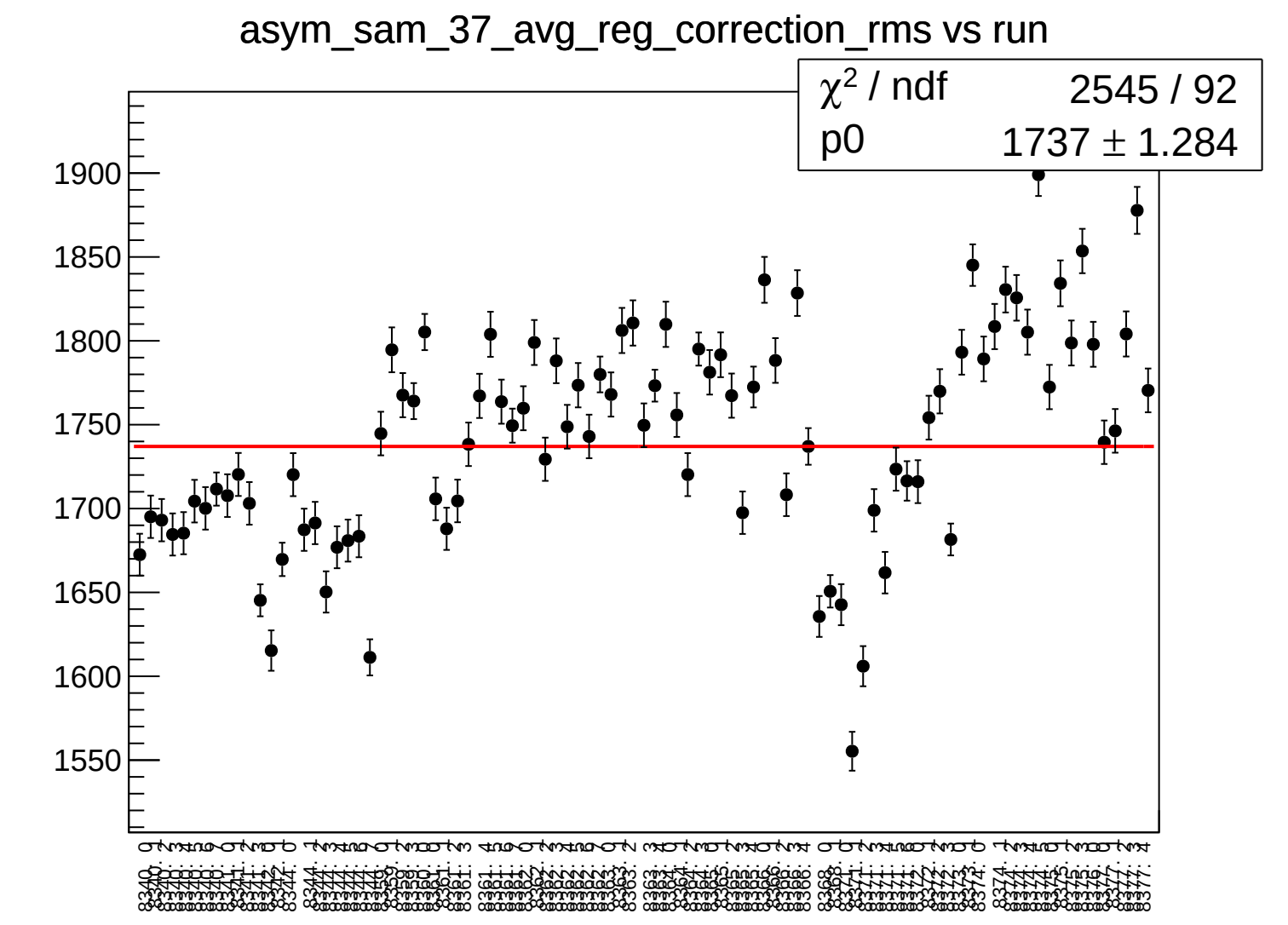

reg_asym_sam_37_avg_mean vs run
χ^2 / ndf 90.24 / 92
p0 213.6 ± 151.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 211.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

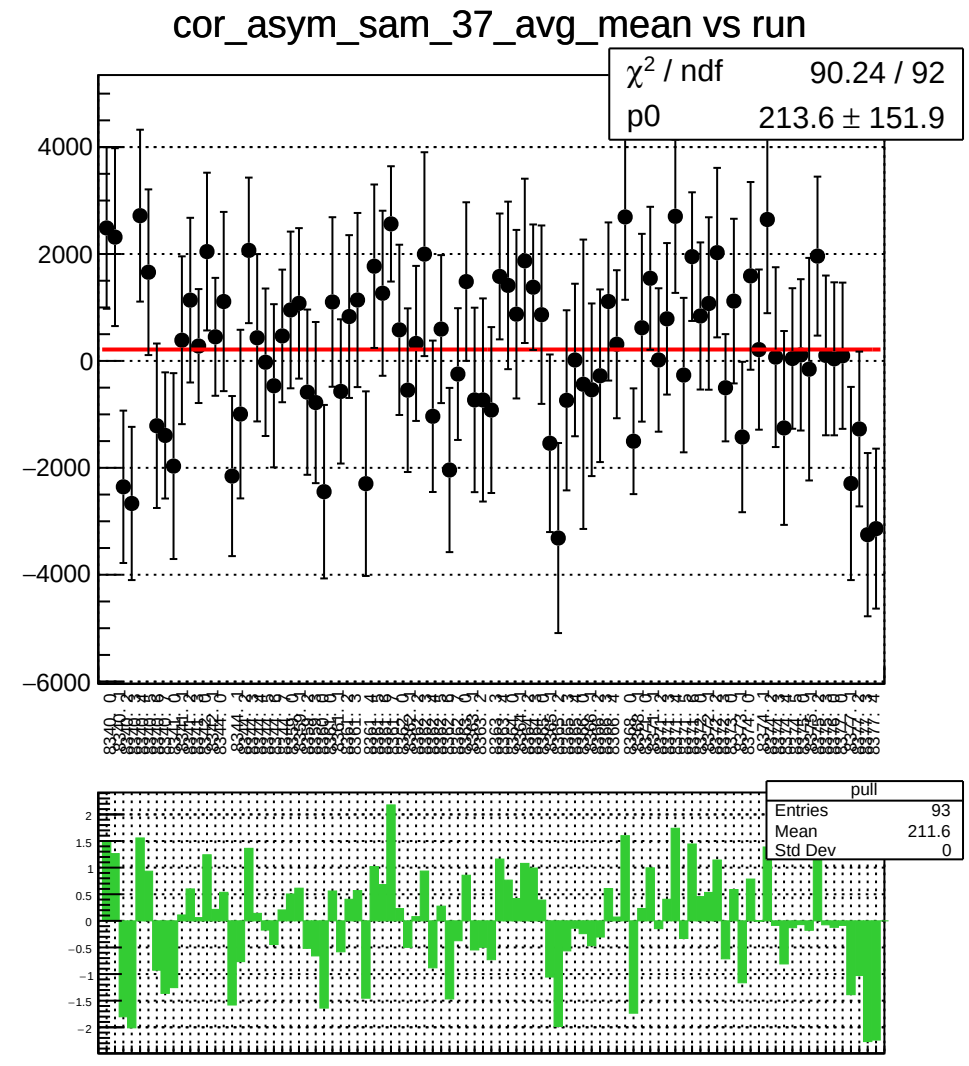

pull1D
Entries 93
Mean −0.009442
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

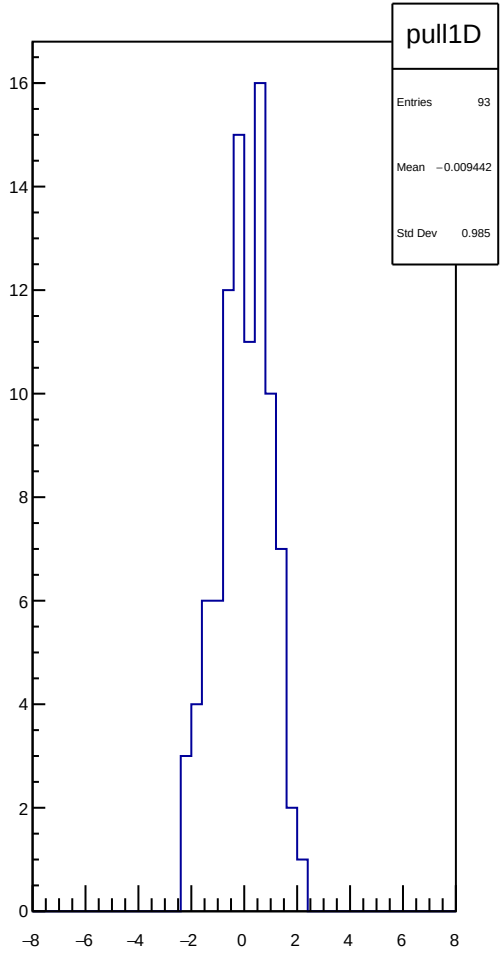

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.026e+04 / 92
p0 144.7 ± 0.1074
260
240
220
200
180
160
140
120

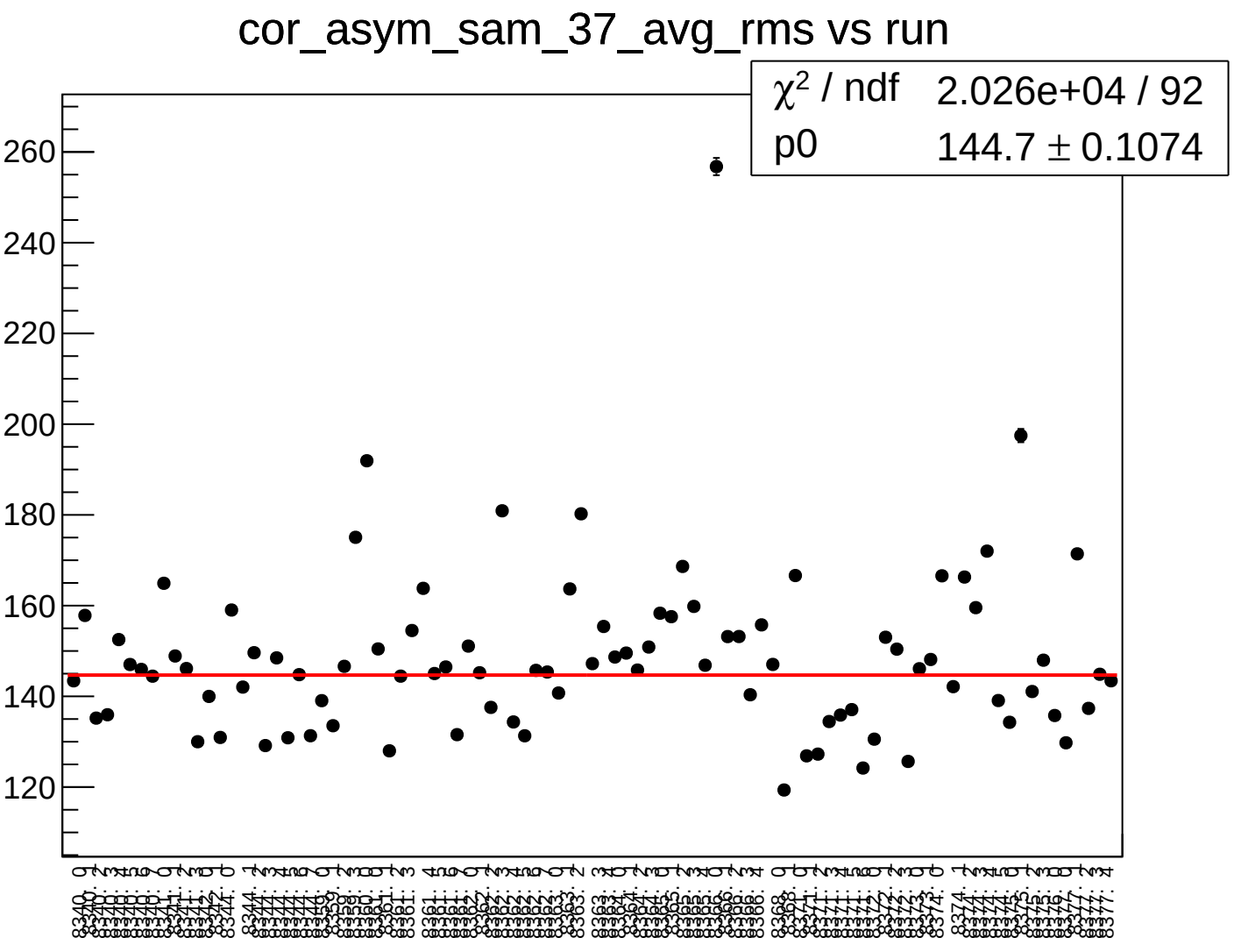

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −3133 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −179.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

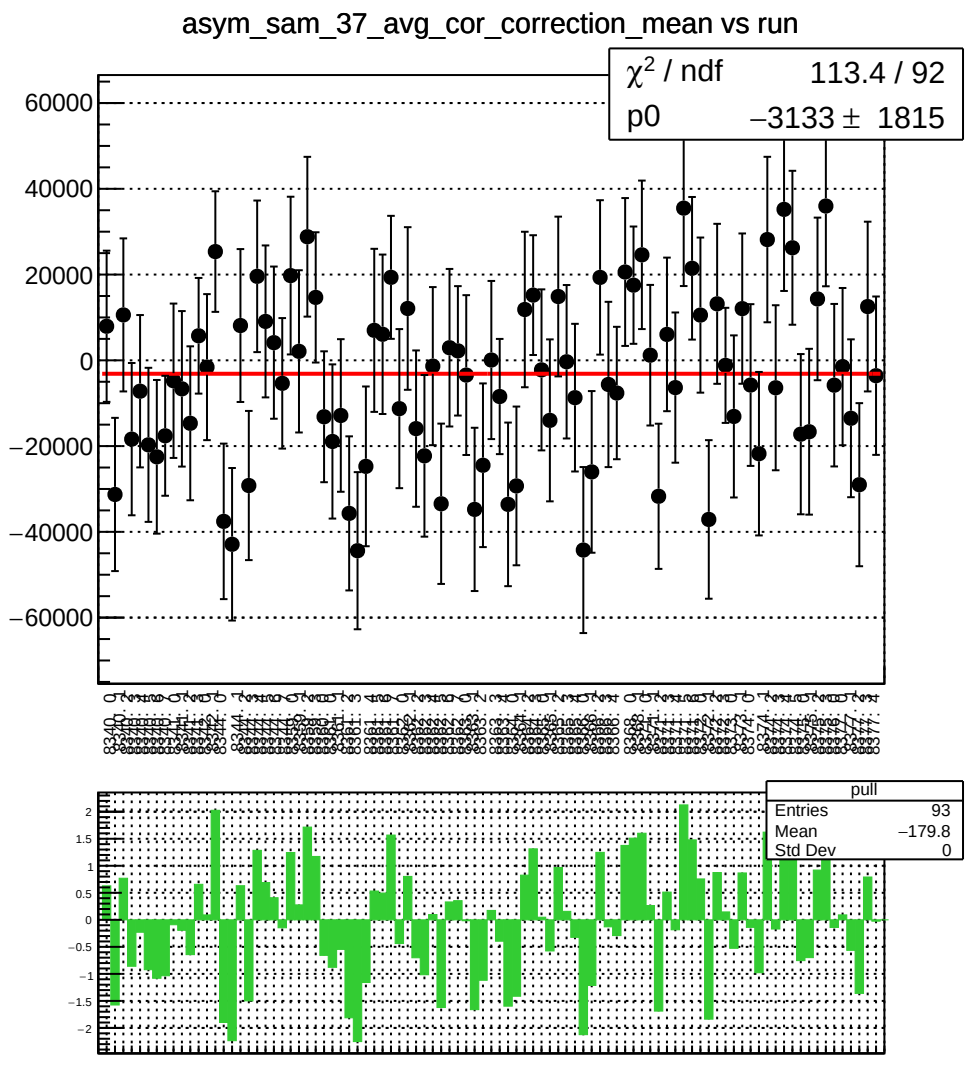

pull1D
Entries 93
Mean −0.02396
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

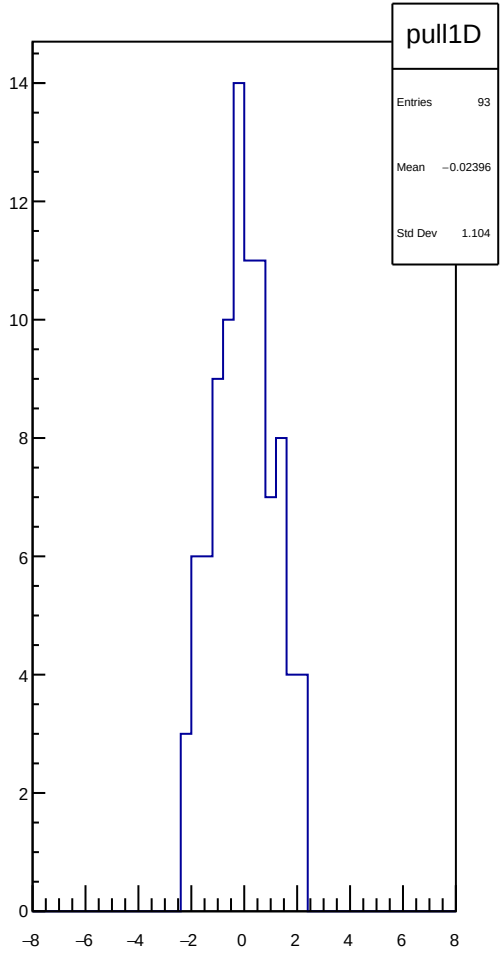

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 2545 / 92
p0 1737 ± 1.284
1900
1850
1800
1750
1700
1650
1600
1550

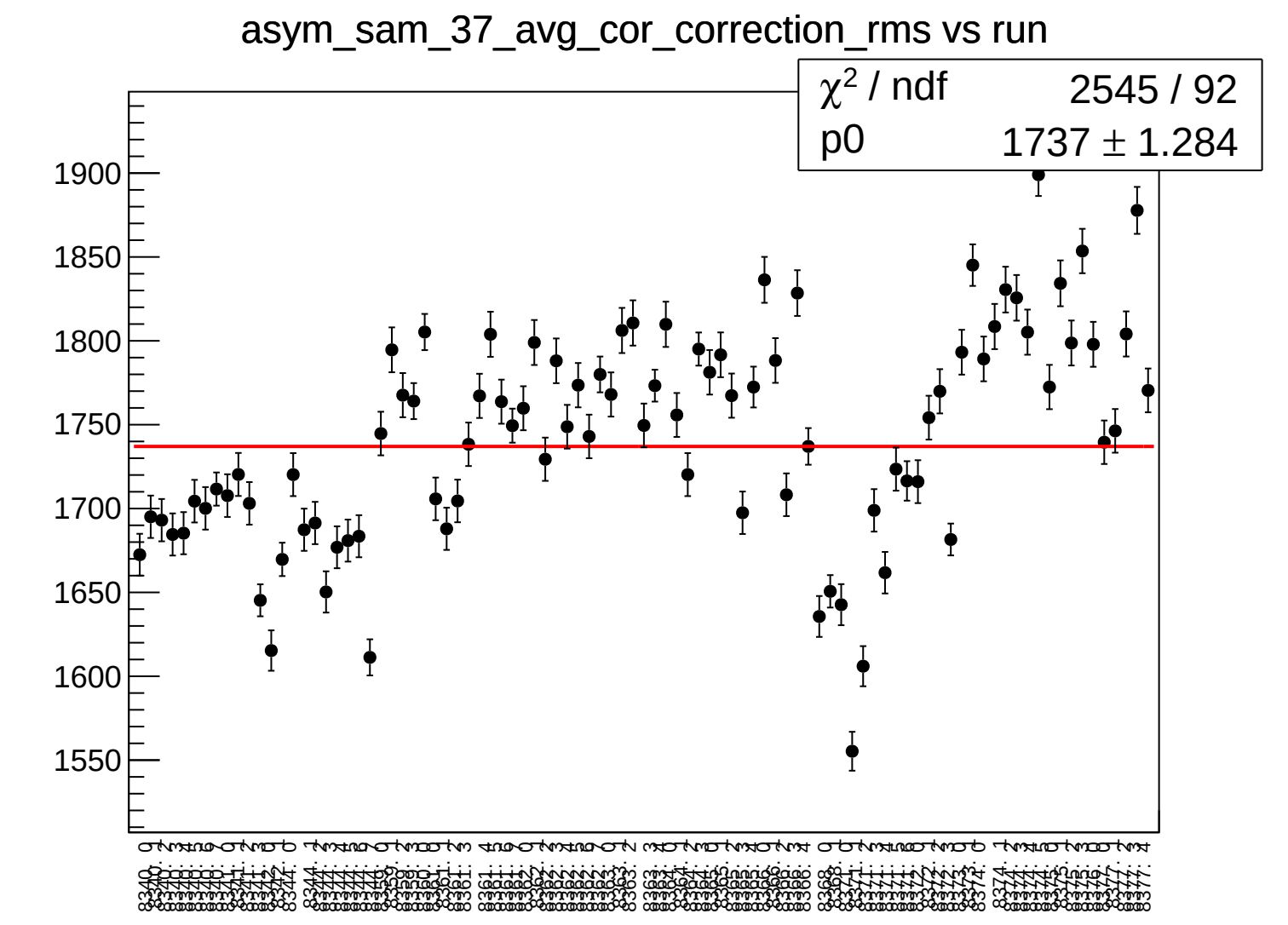

cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.24 / 92
p0 213.6 ± 151.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 211.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

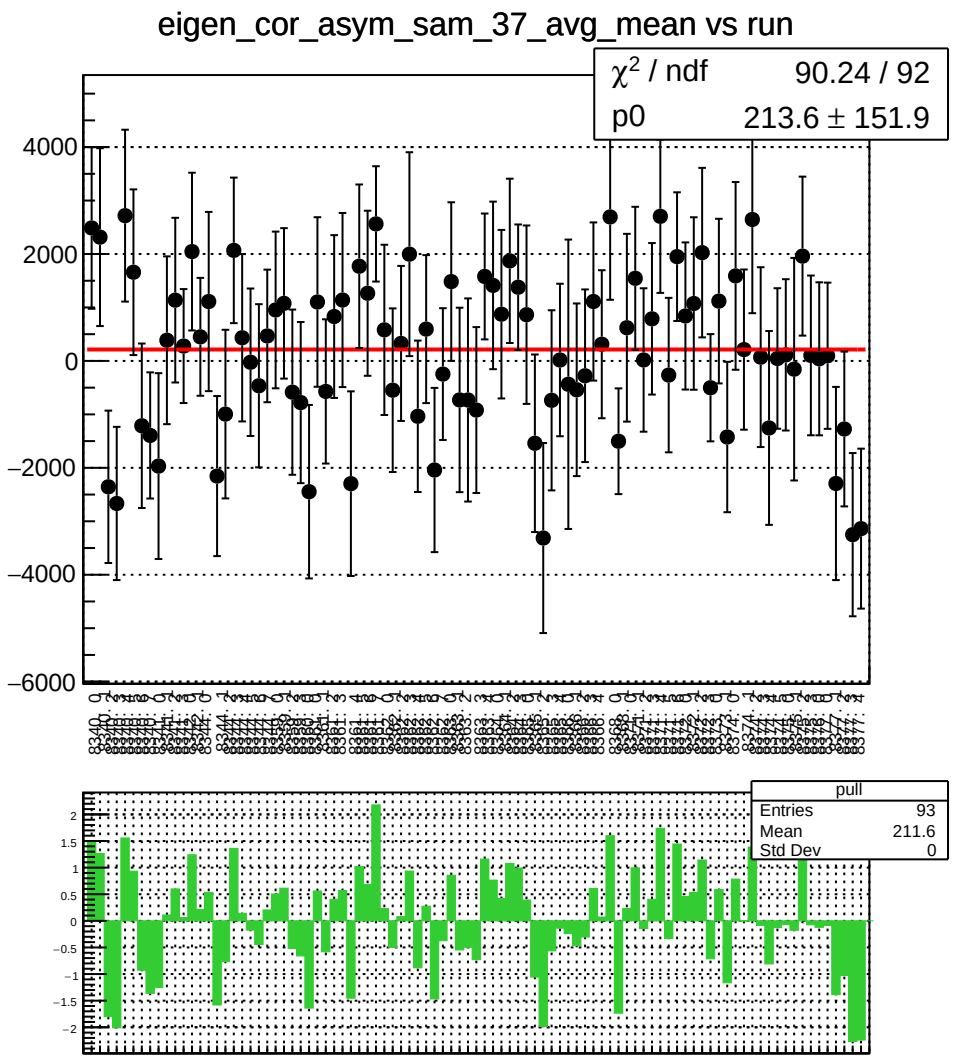

pull1D
Entries 93
Mean −0.009442
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

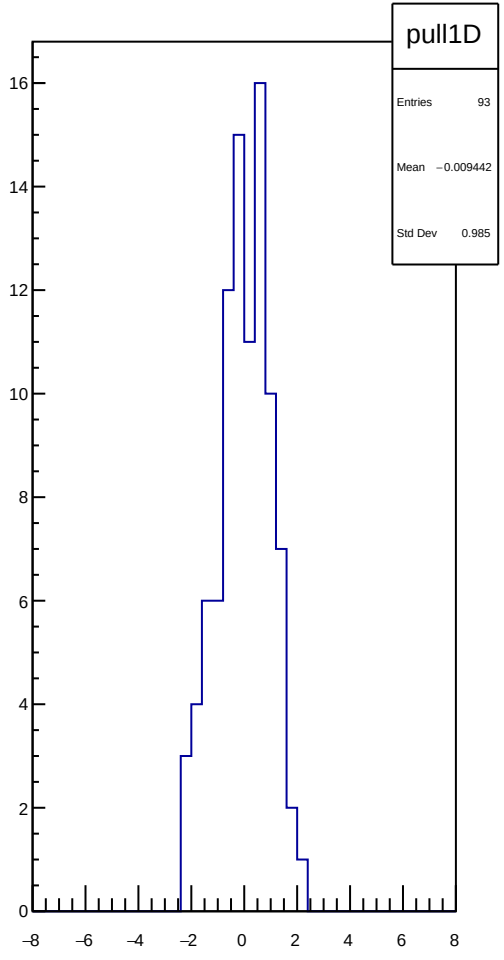

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.026e+04 / 92
p0 144.7 ± 0.1074
260
240
220
200
180
160
140
120

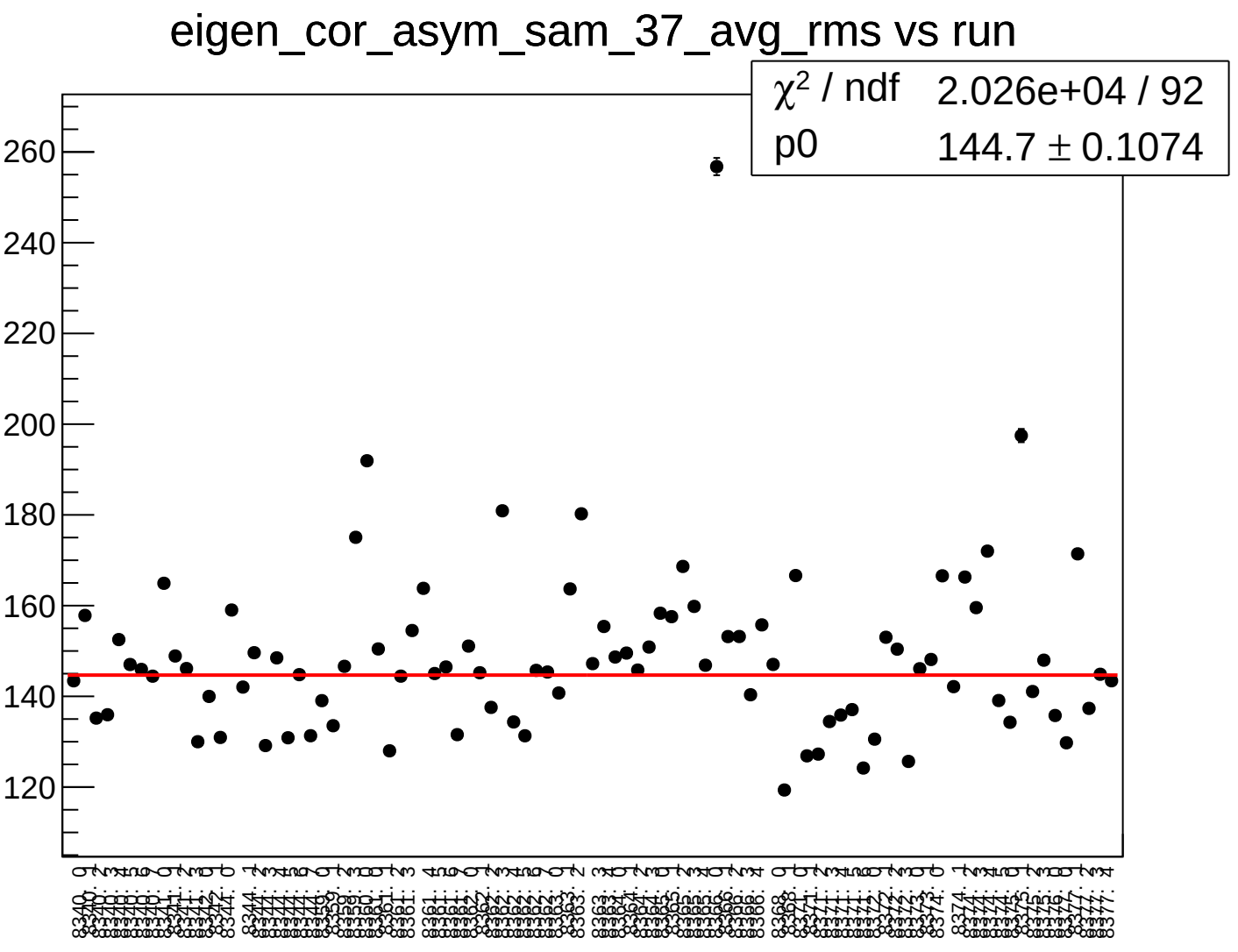

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −3133 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −179.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

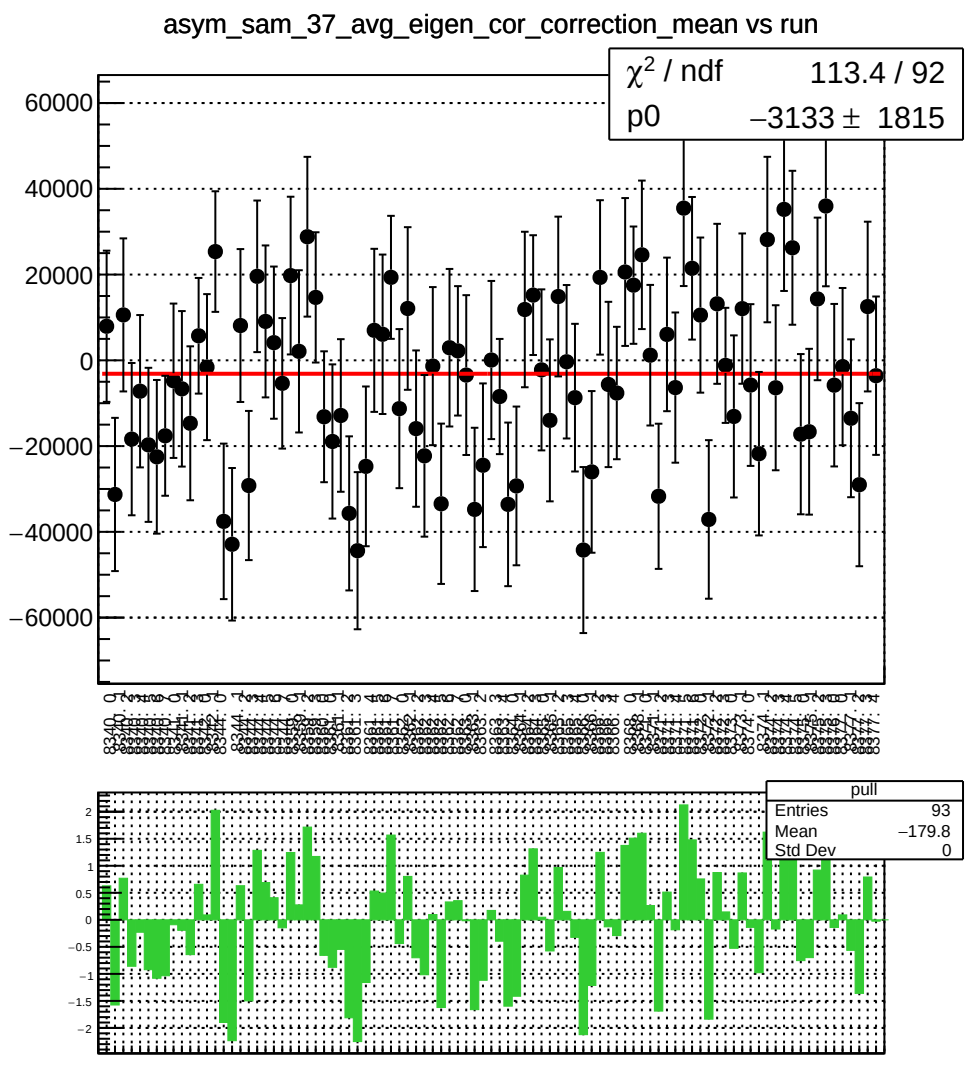

pull1D
Entries 93
Mean −0.02396
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

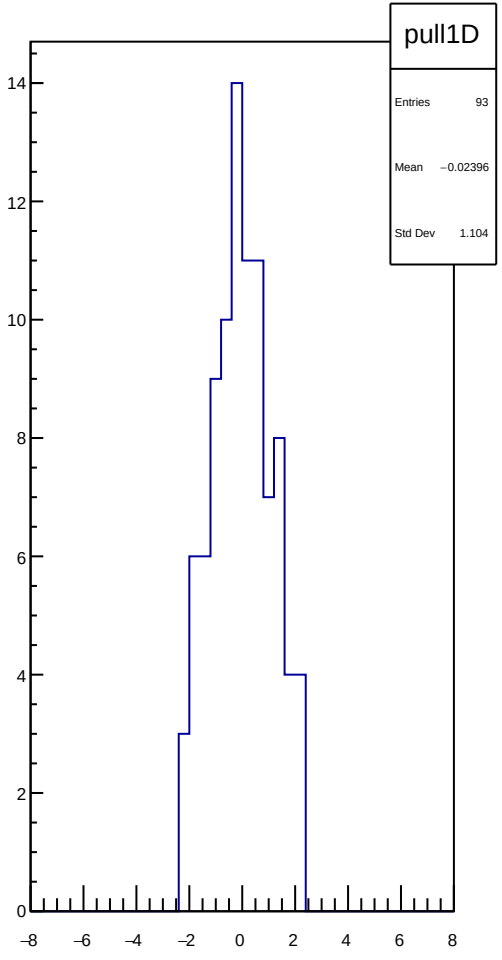

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 2545 / 92
p0 1737 ± 1.284
1900
1850
1800
1750
1700
1650
1600
1550

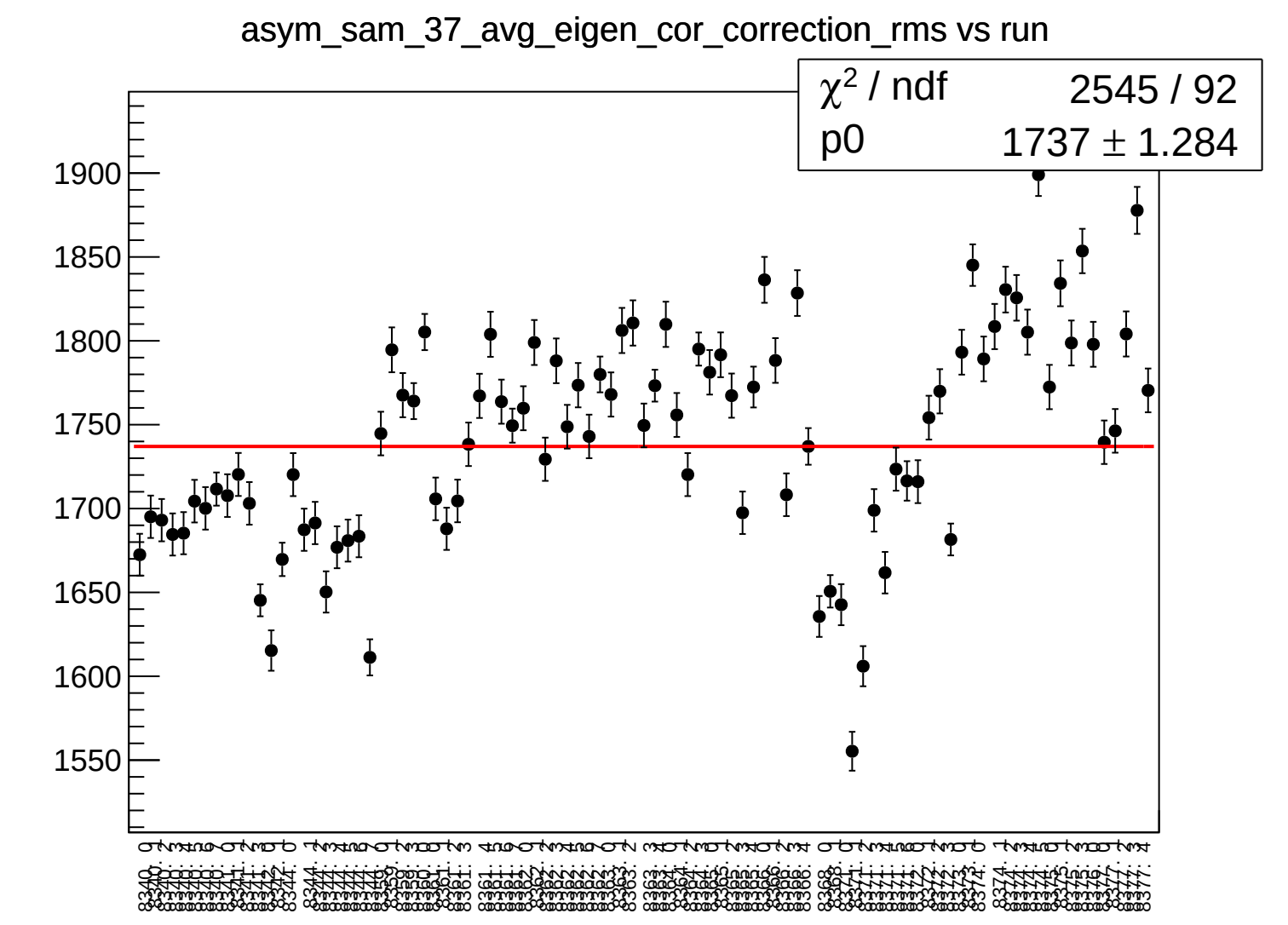

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.24 / 92
p0 213.6 ± 151.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 211.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

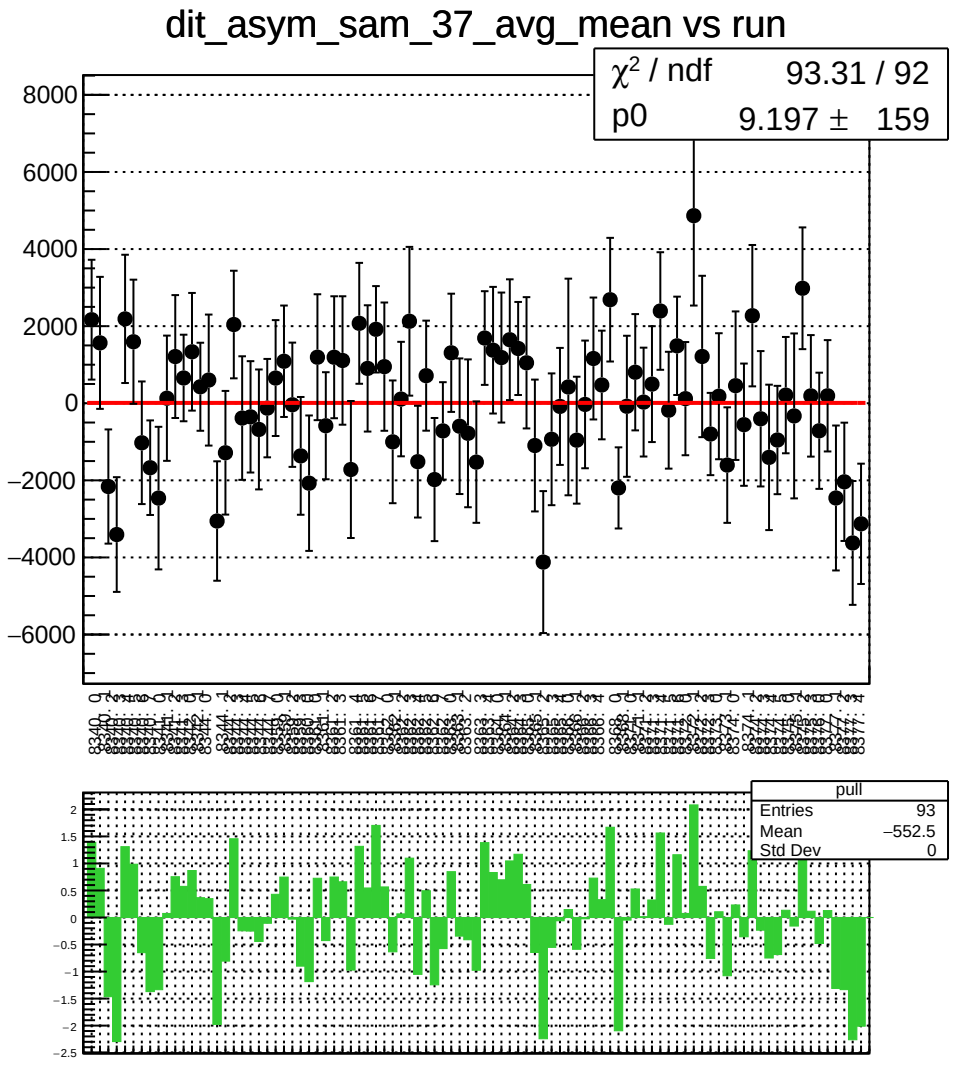

pull1D
Entries 93
Mean −0.009442
Std Dev 0.985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

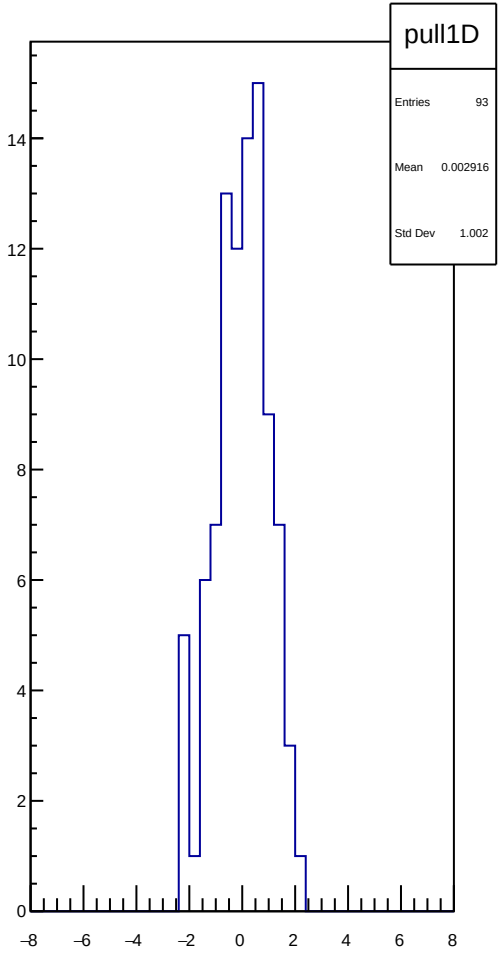

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 2.026e+04 / 92
p0 144.7 ± 0.1074
260
240
220
200
180
160
140
120

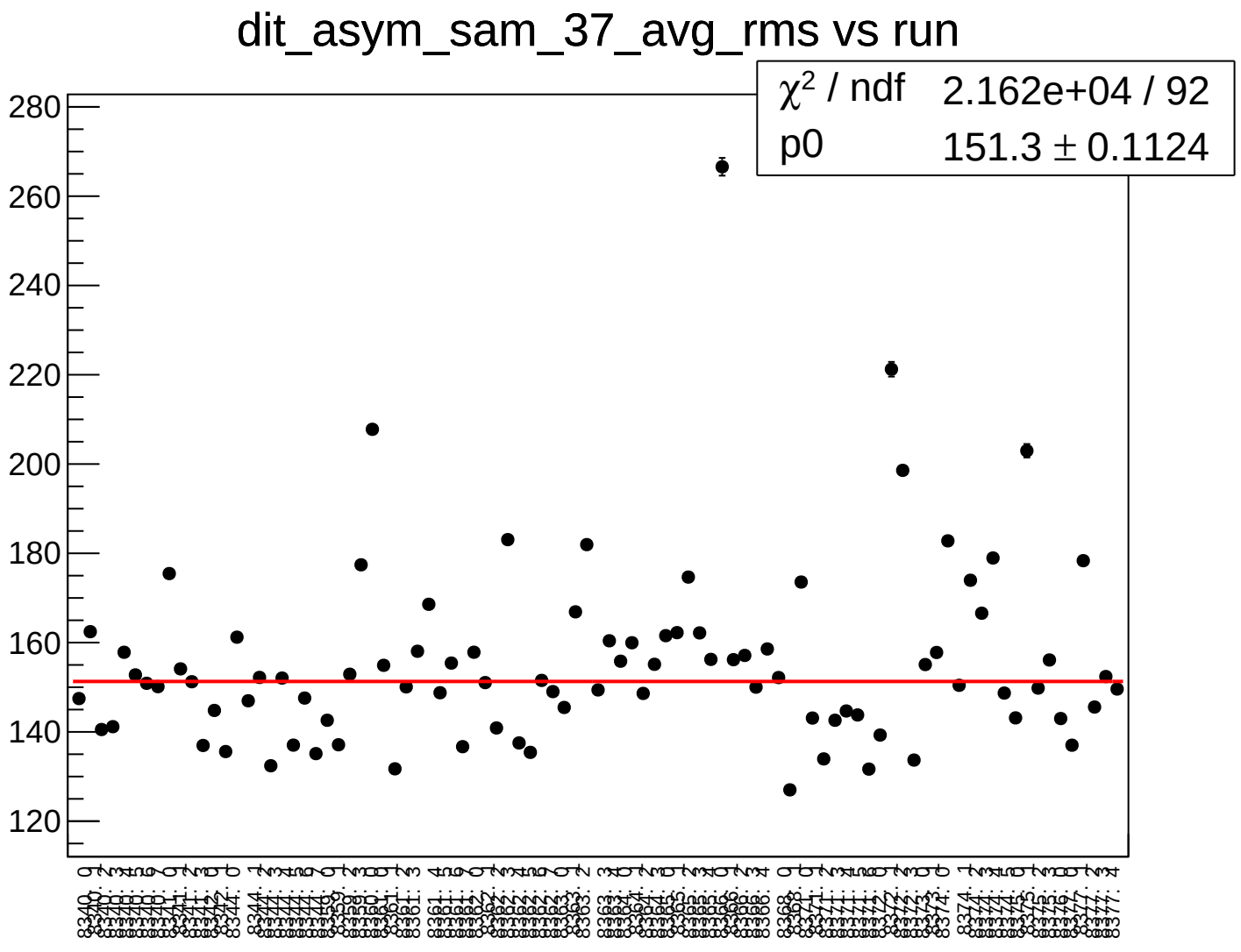

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −3133 ± 1815
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −179.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

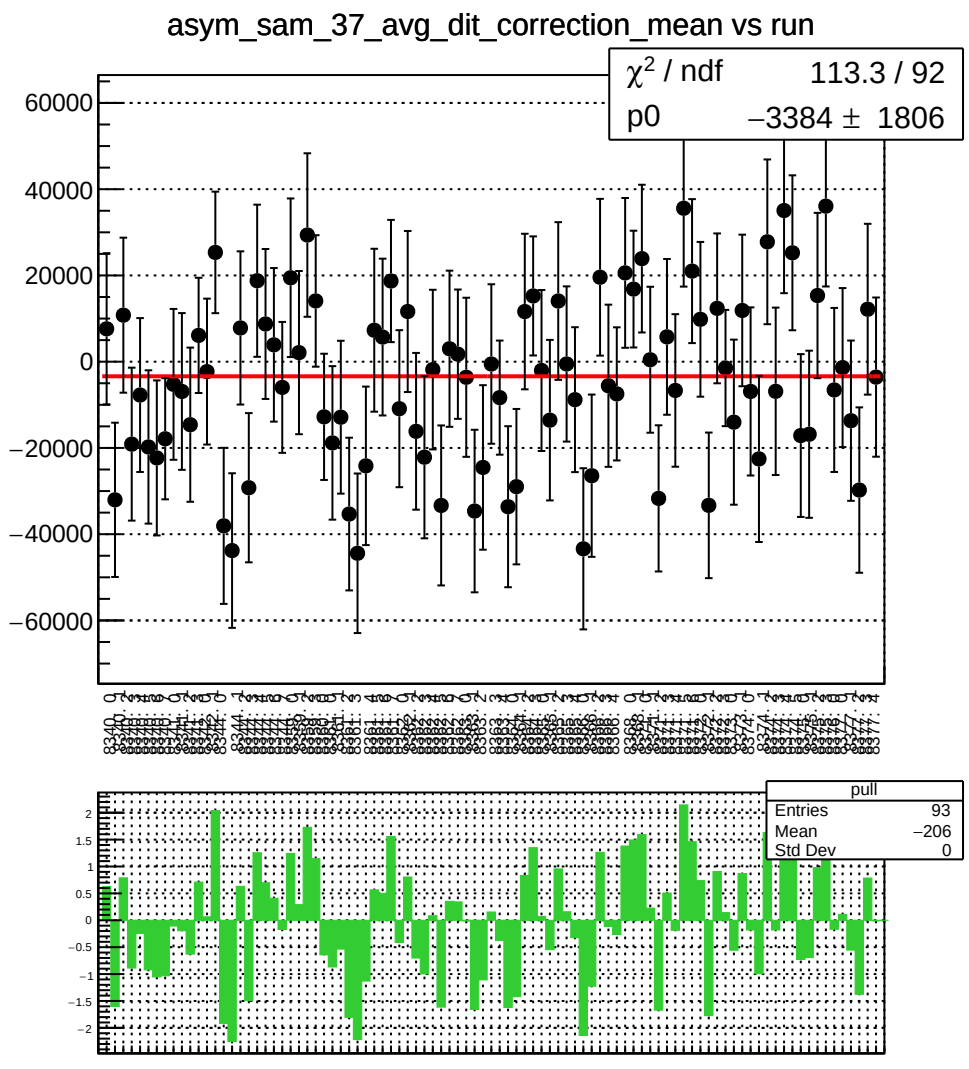

pull1D
Entries 93
Mean −0.02396
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

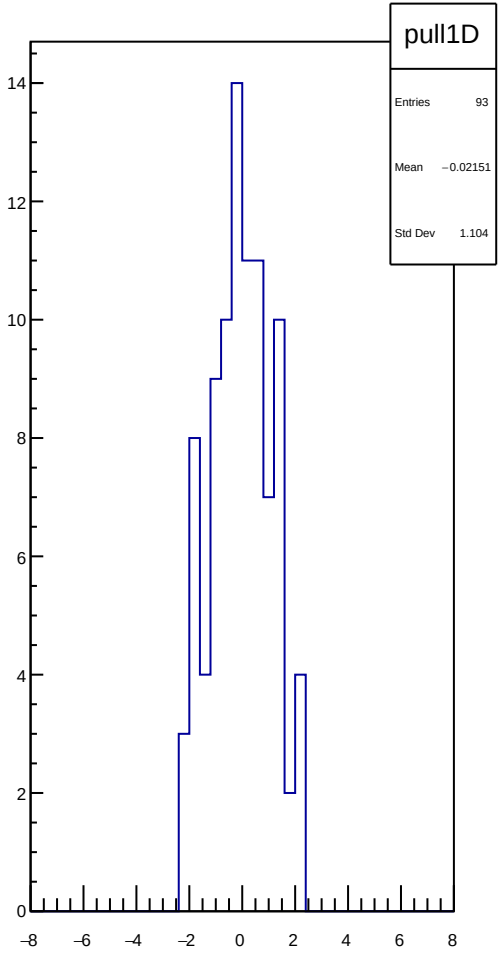

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 2545 / 92
p0 1737 ± 1.284
1900
1850
1800
1750
1700
1650
1600
1550

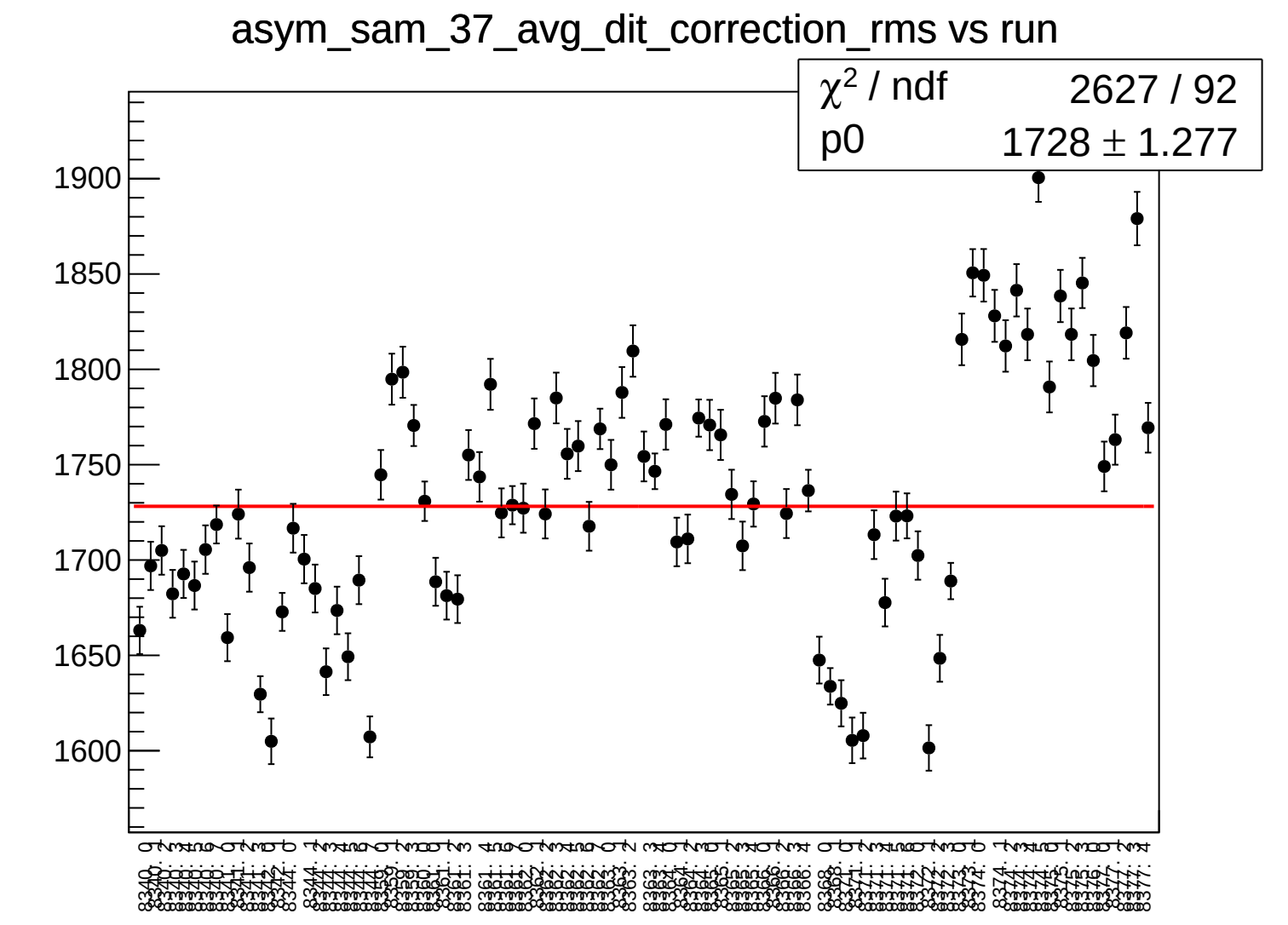

dit_asym_sam_37_avg_mean vs run
χ² / ndf 93.31 / 92
p0 9.197 ± 159
pull
Entries 93
Mean −552.5
Std Dev 0

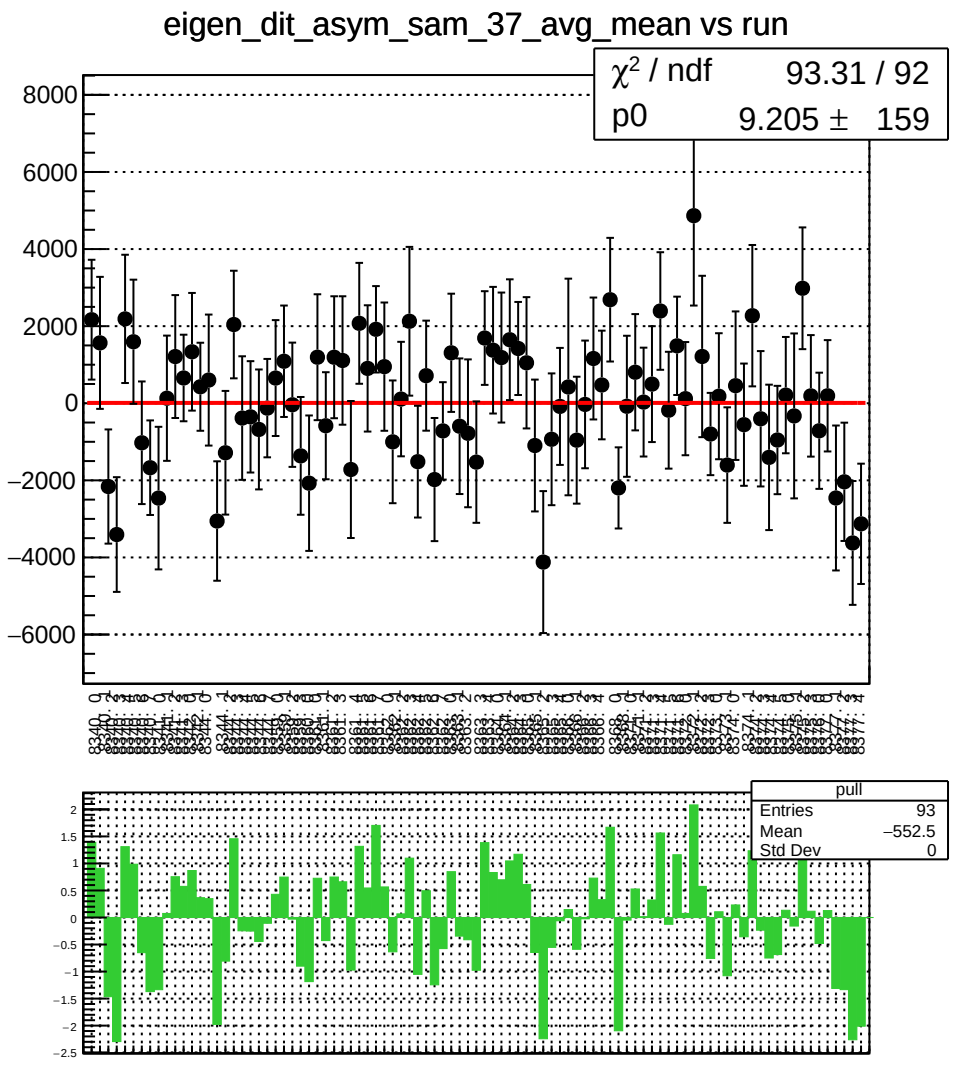

pull1D
Entries 93
Mean 0.002916
Std Dev 1.002

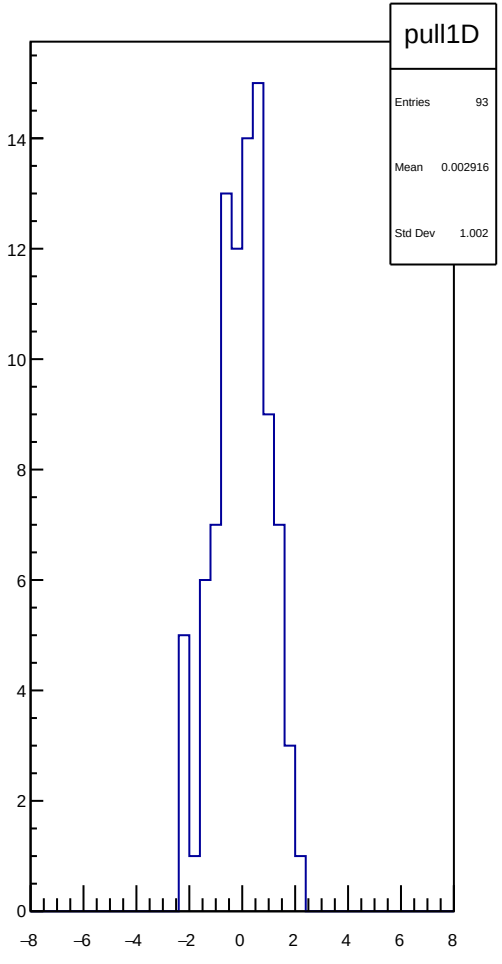

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.162e+04 / 92
p0 151.3 ± 0.1124
280
260
240
220
200
180
160
140
120

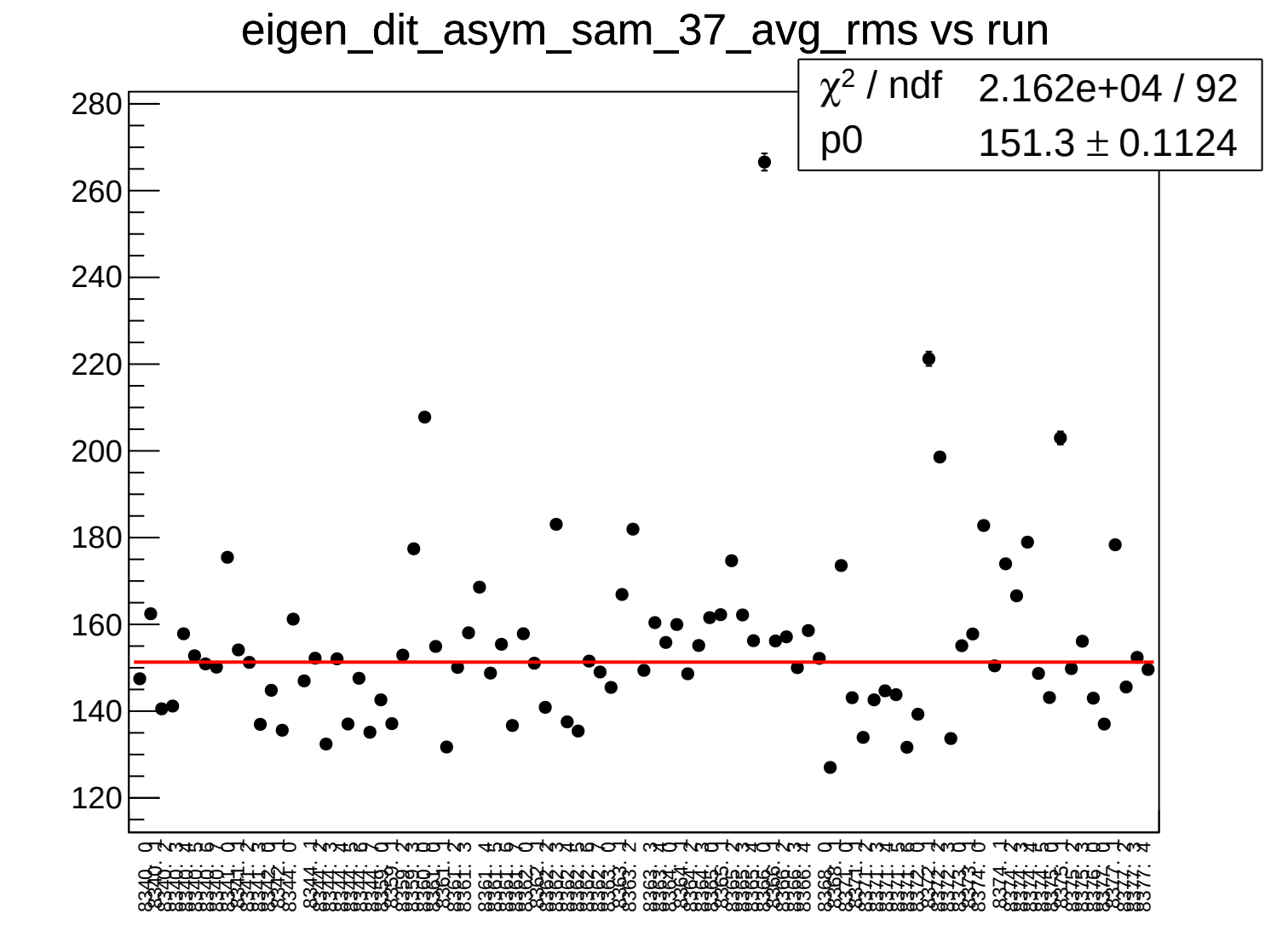

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −3384 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −206
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

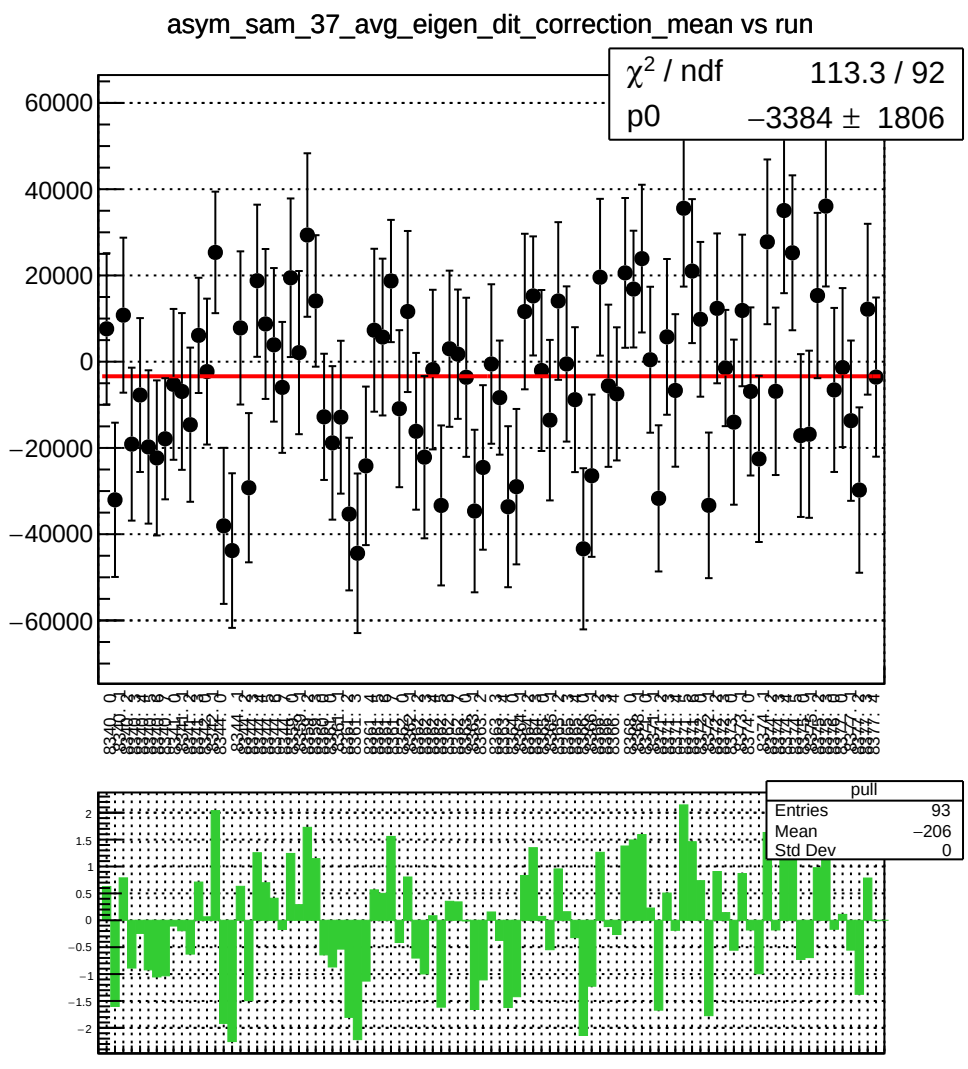

pull1D
Entries 93
Mean −0.02151
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

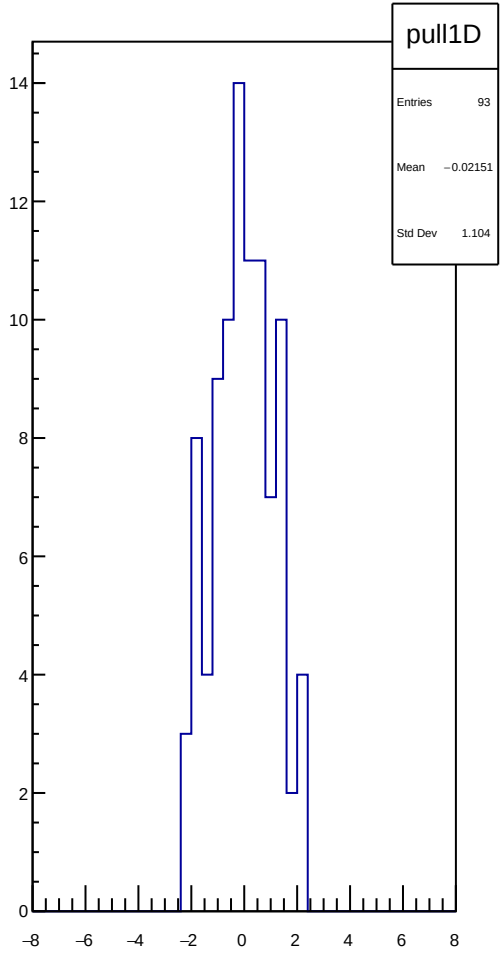

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 2627 / 92
p0 1728 ± 1.277
1900
1850
1800
1750
1700
1650
1600

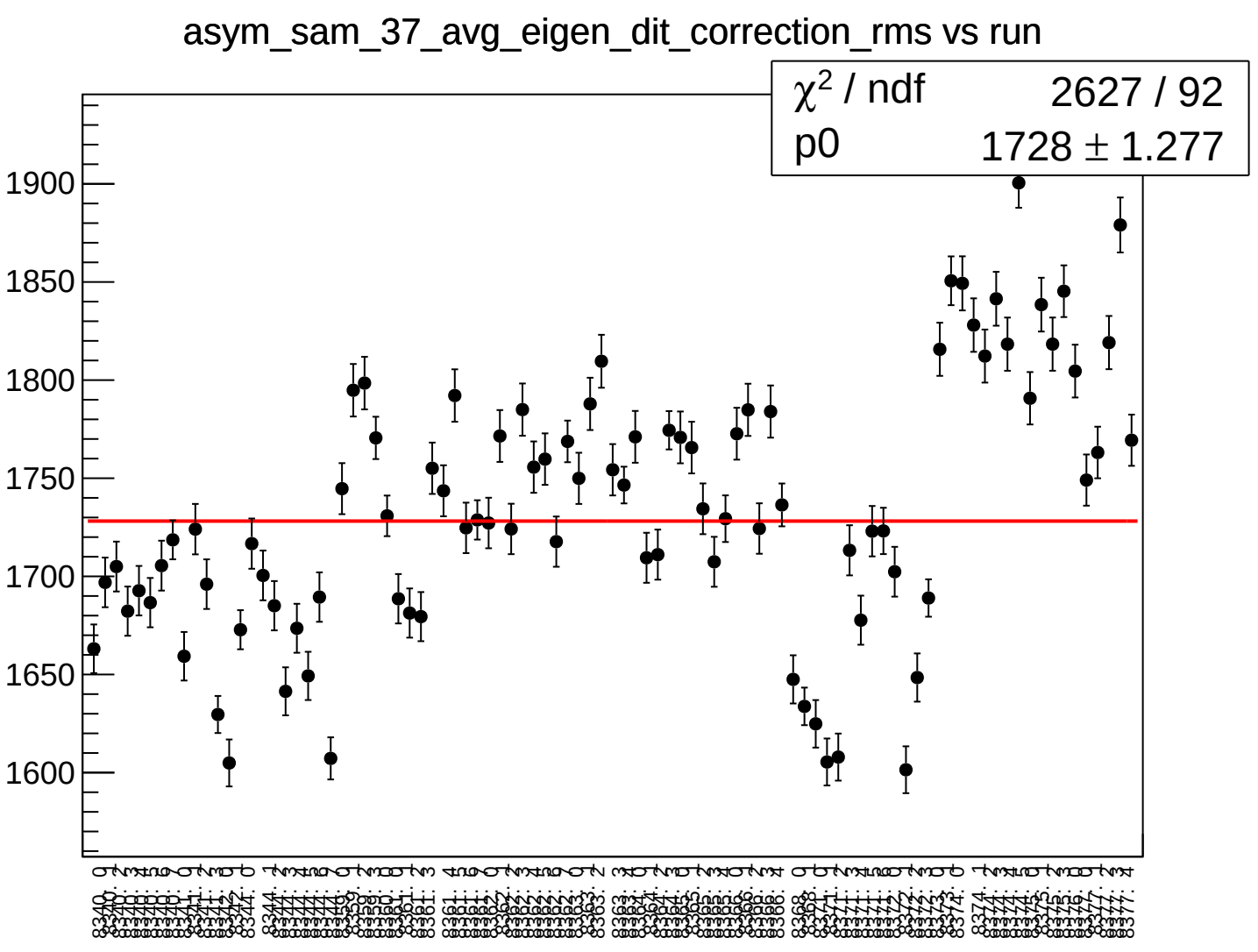

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 93.31 / 92
p0 9.205 ± 159
pull
Entries 93
Mean −552.5
Std Dev 0

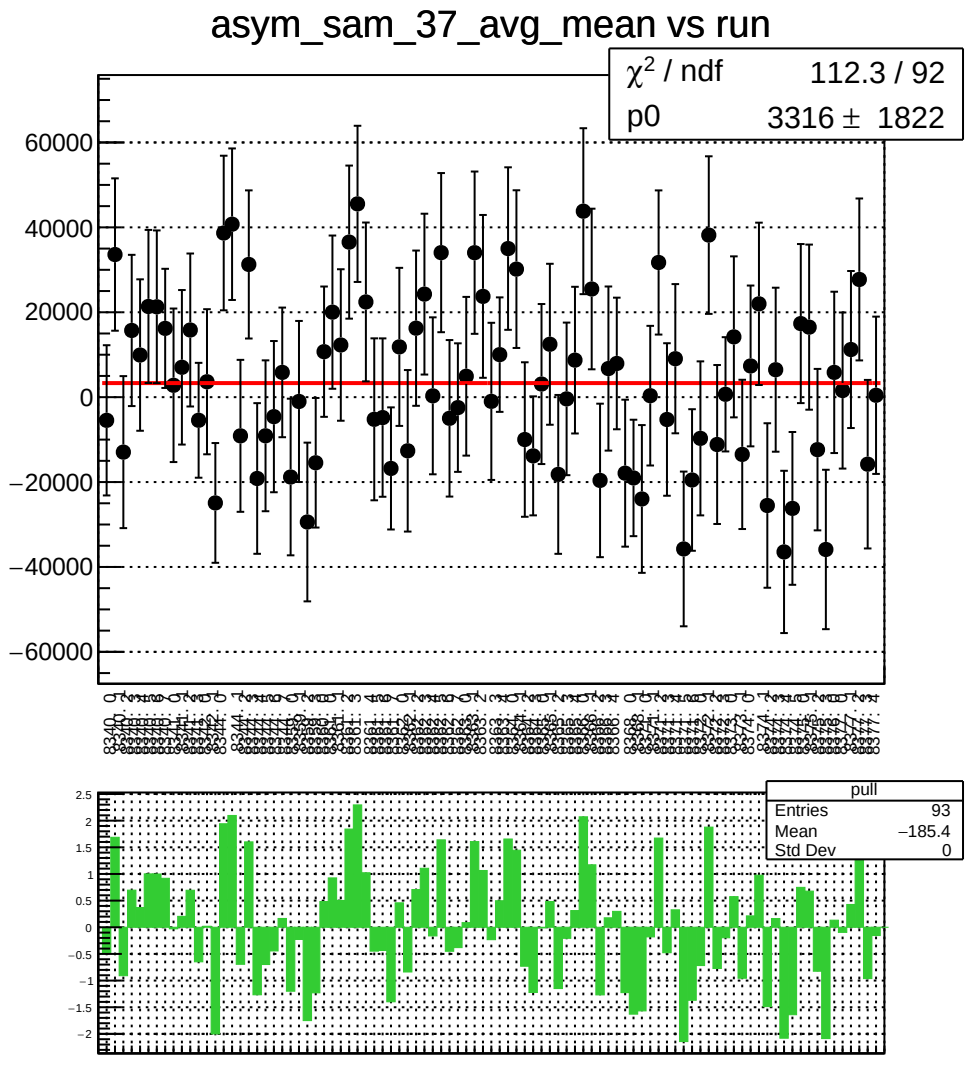

pull1D
Entries 93
Mean 0.002916
Std Dev 1.002

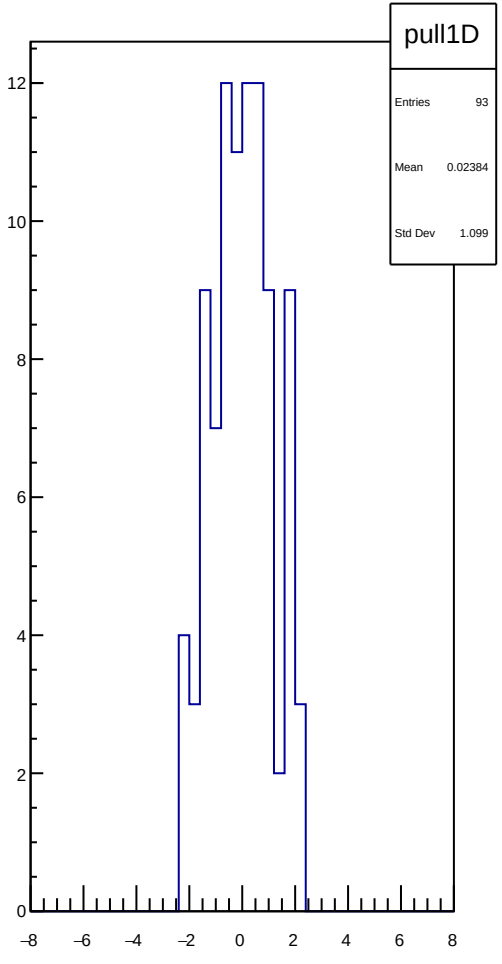

eigen_dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.162e+04 / 92
p0 151.3 ± 0.1124
280
260
240
220
200
180
160
140
120

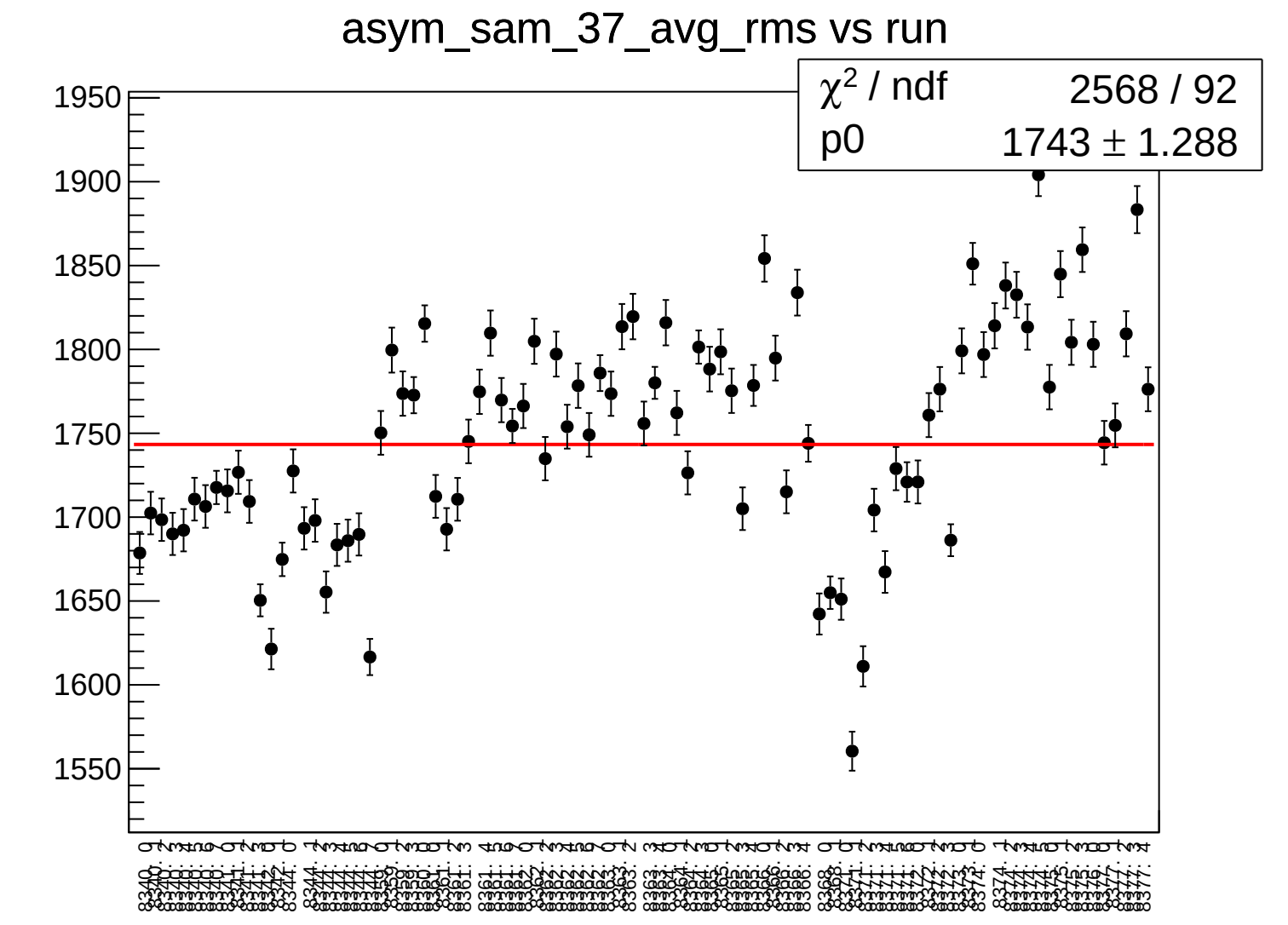

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −3384 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −206
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

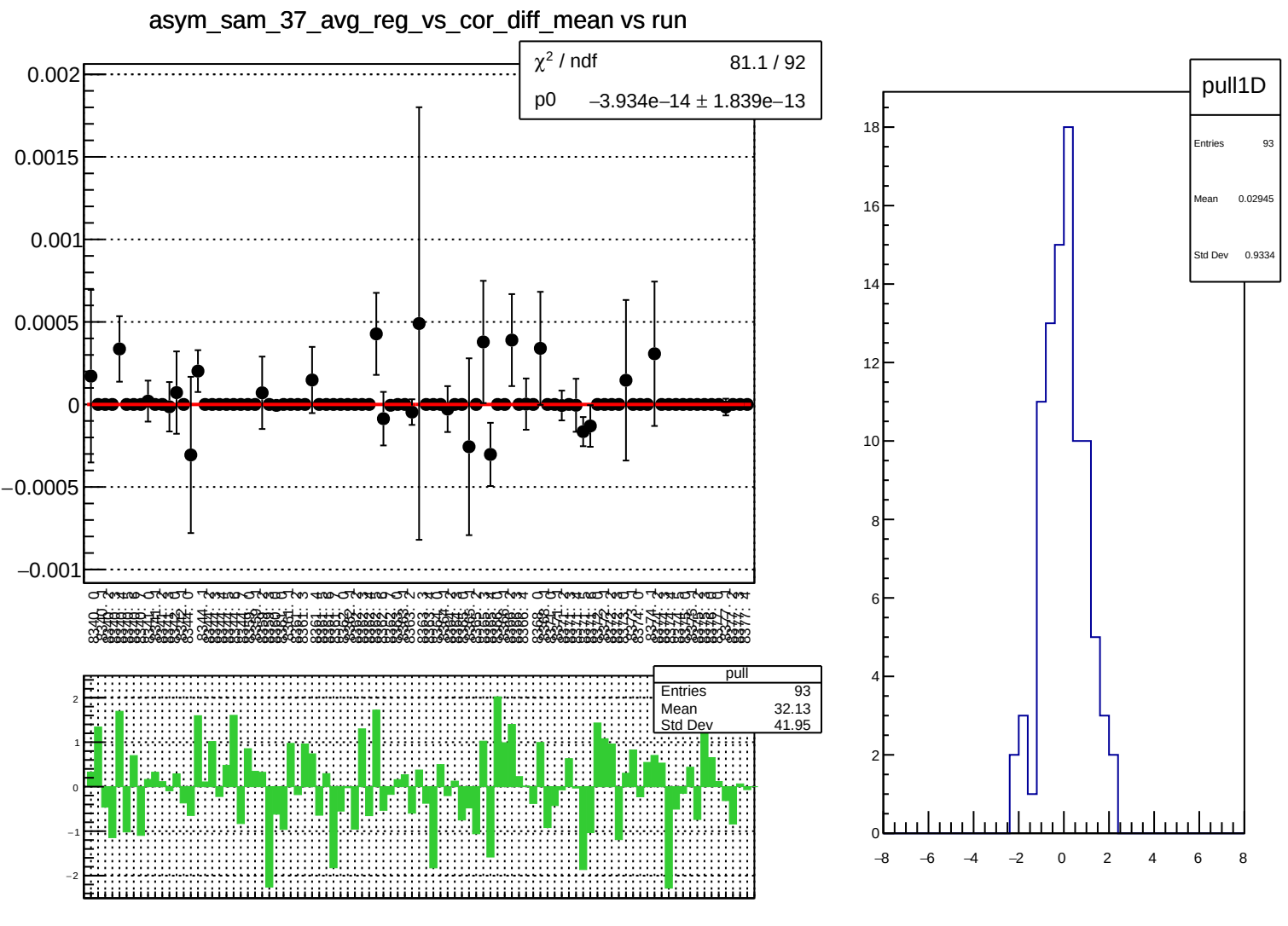

pull1D
Entries 93
Mean −0.02151
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

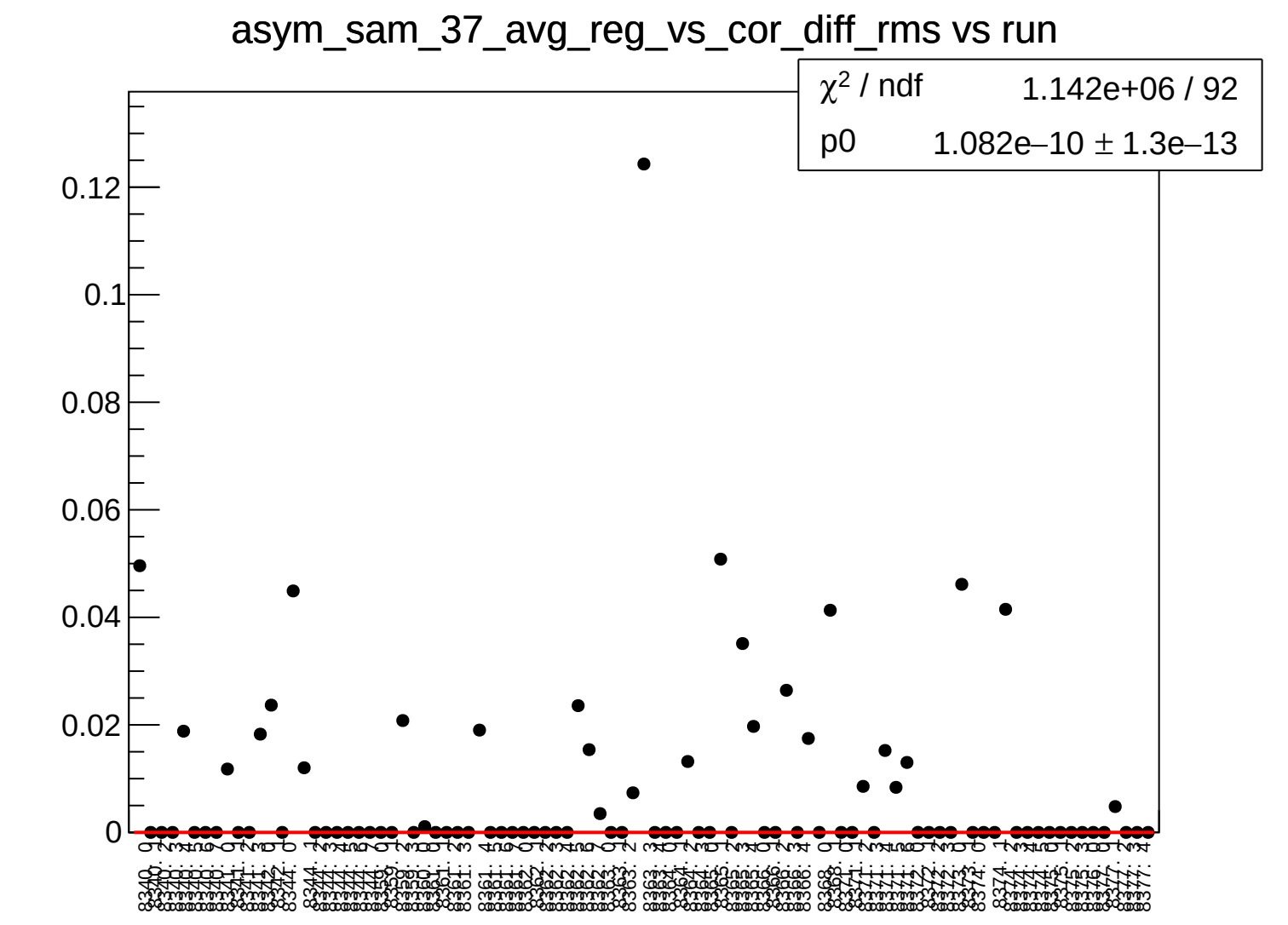

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 2627 / 92
p0 1728 ± 1.277
1900
1850
1800
1750
1700
1650
1600

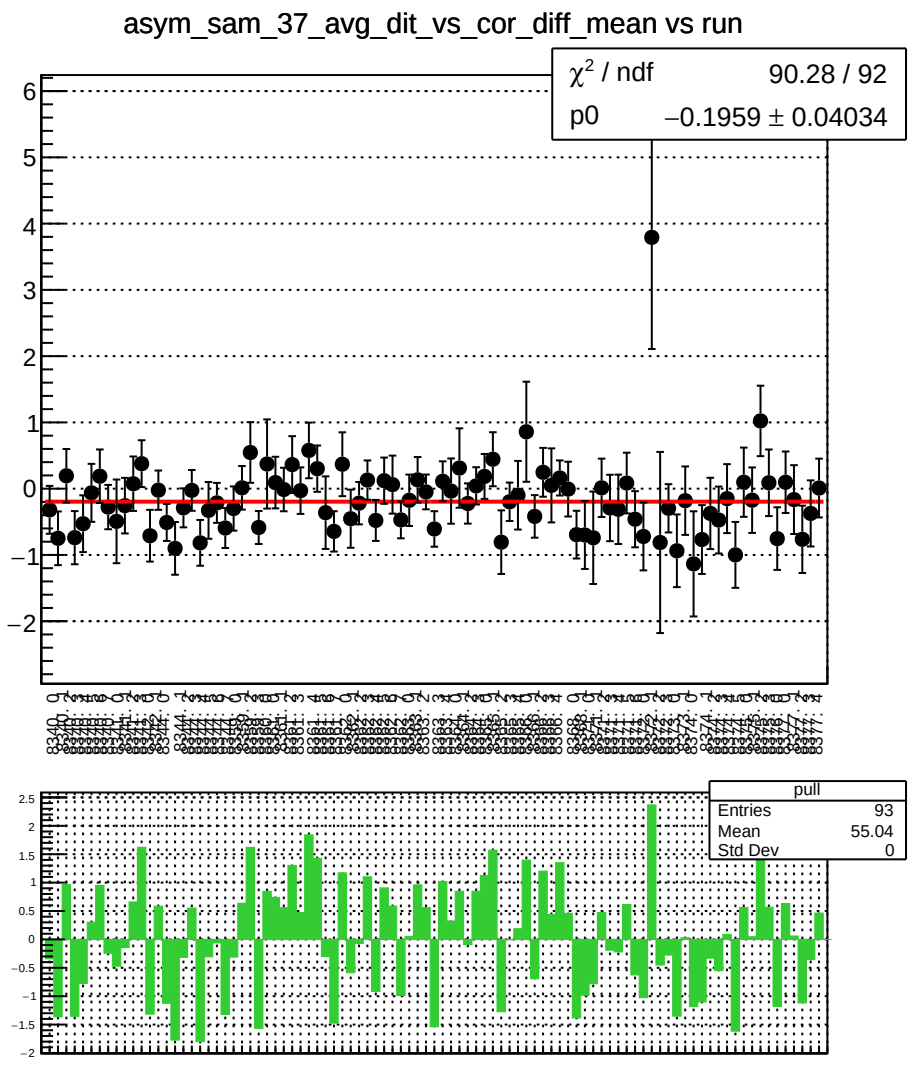

asym_sam_37_avg_mean vs run
χ² / ndf 112.3 / 92
p0 3316 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −185.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

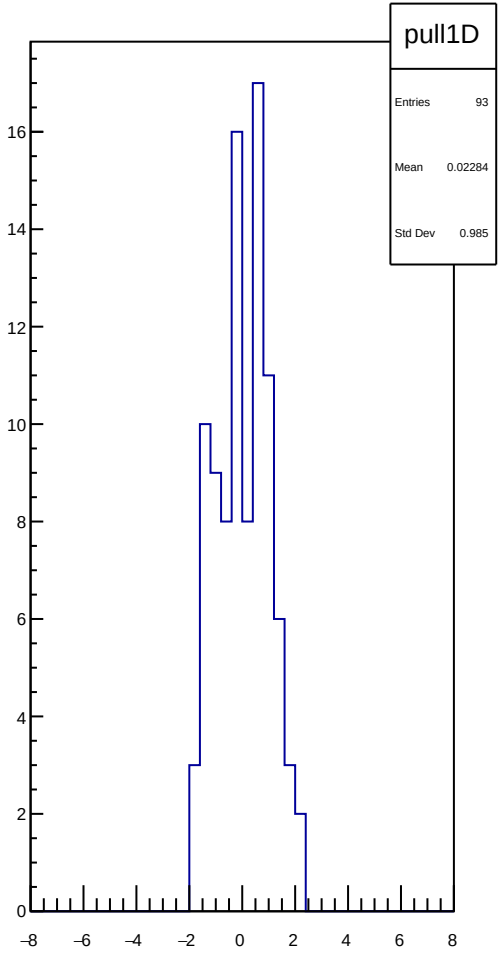

pull1D
Entries 93
Mean 0.02384
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

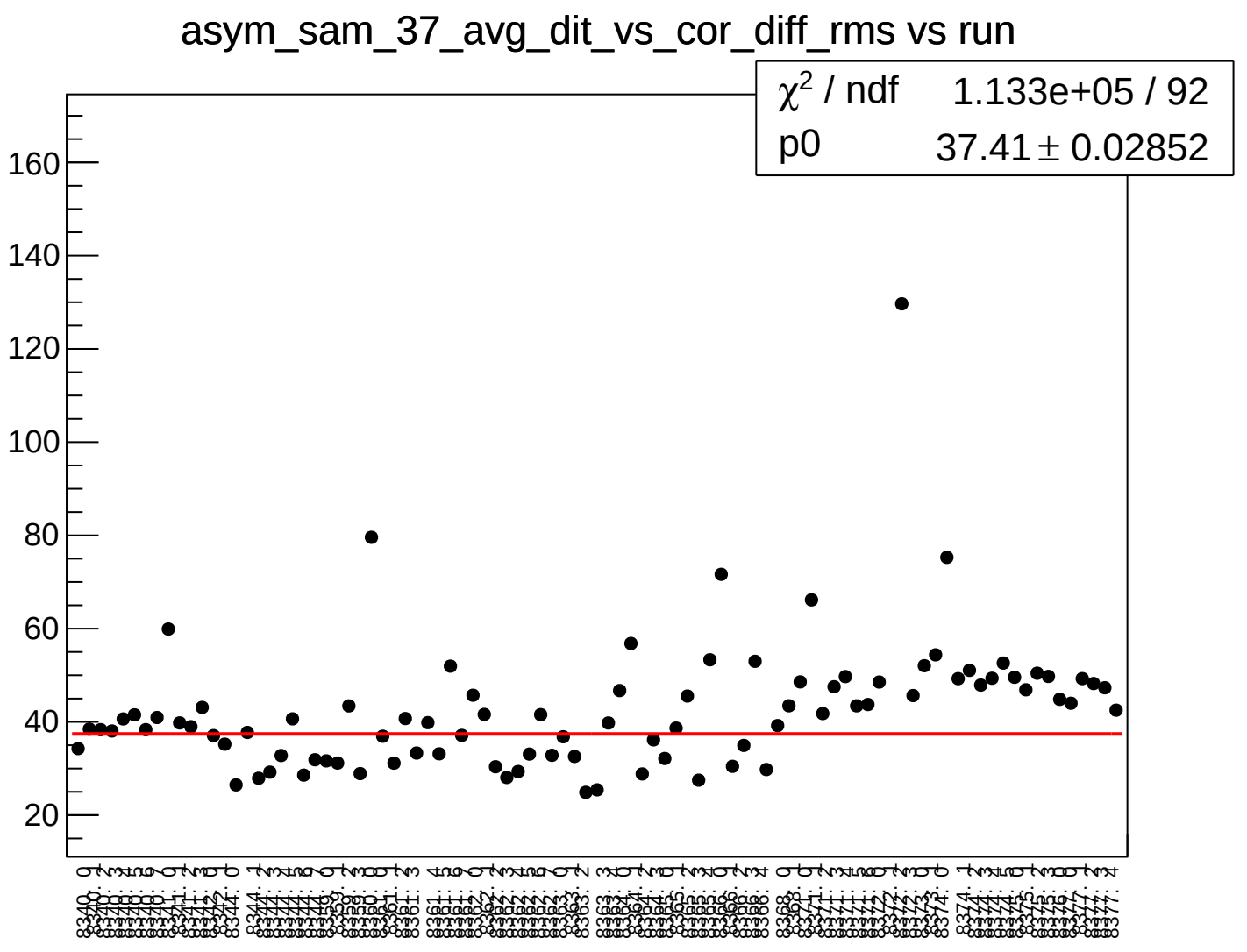

asym_sam_37_avg_rms vs run
χ² / ndf 2568 / 92
p0 1743 ± 1.288
1950
1900
1850
1800
1750
1700
1650
1600
1550

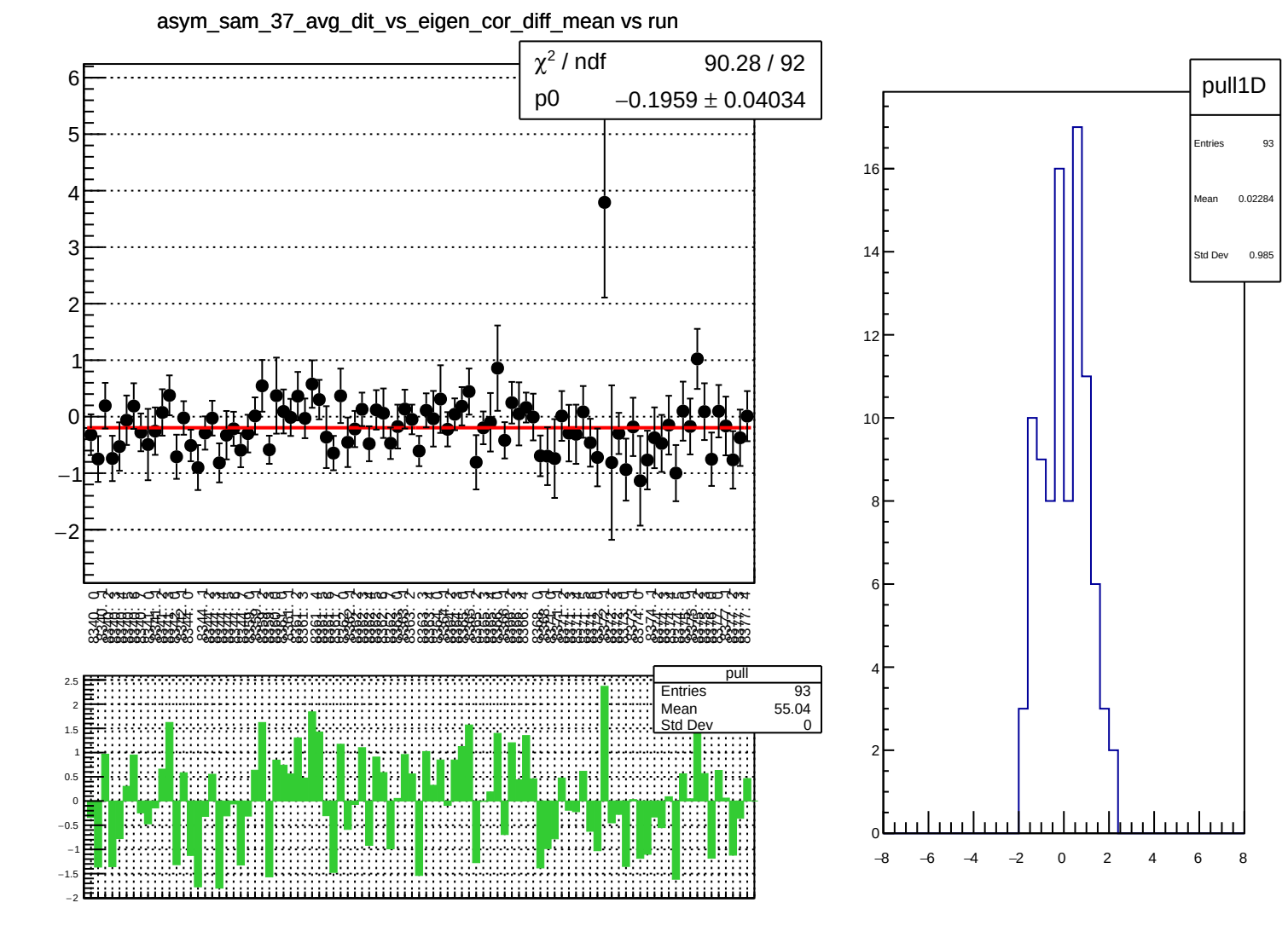

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.1 / 92
p0 −3.934e−14 ± 1.839e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 32.13
Std Dev 41.95
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02945
Std Dev 0.9334
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

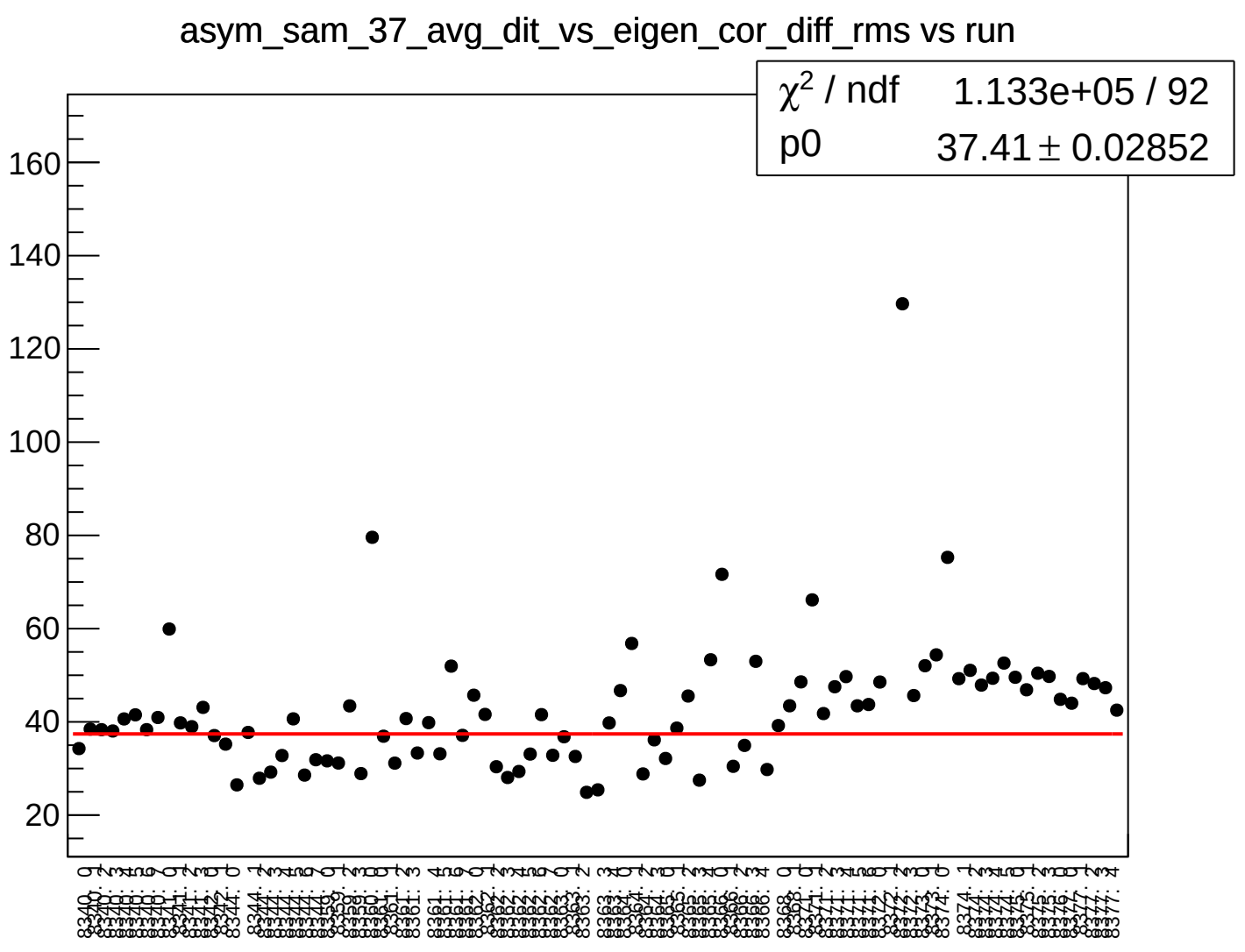

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.142e+06 / 92
p0 1.082e−10 ± 1.3e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

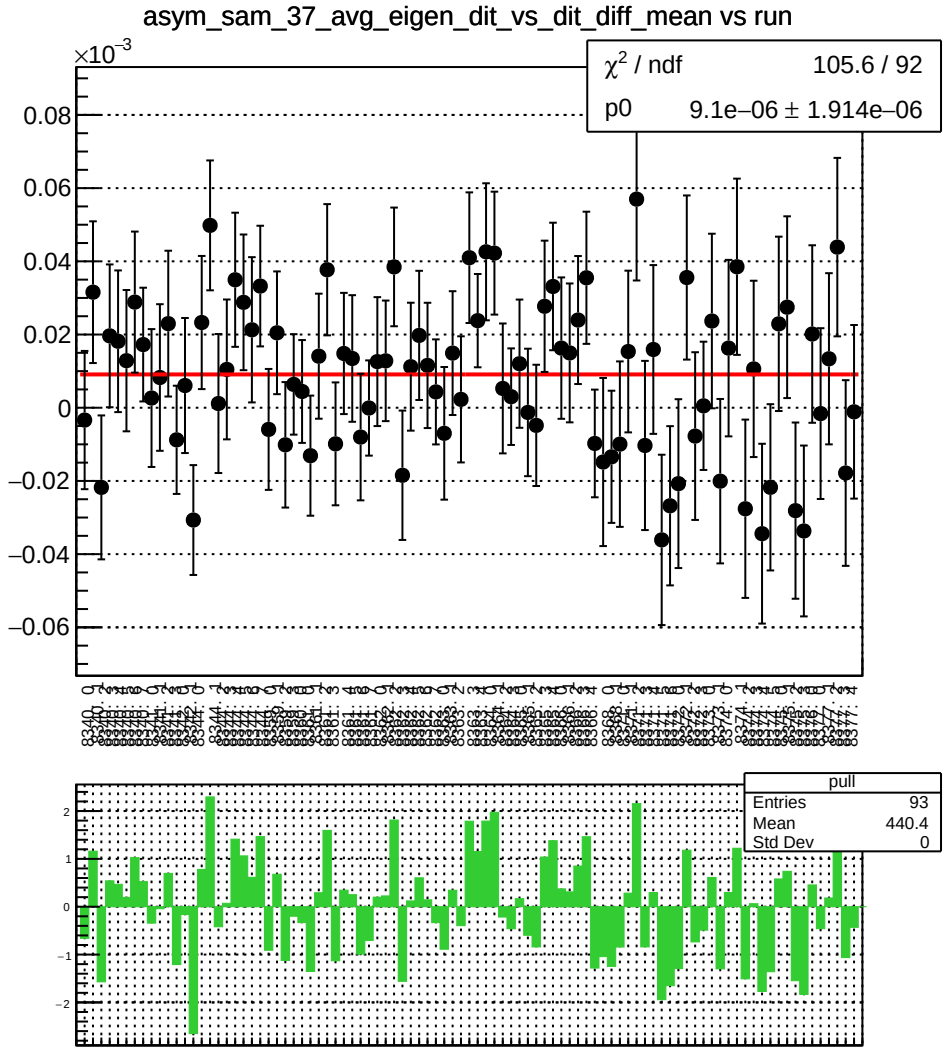

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 92
p0 −0.1959 ± 0.04034
pull
Entries 93
Mean 55.04
Std Dev 0

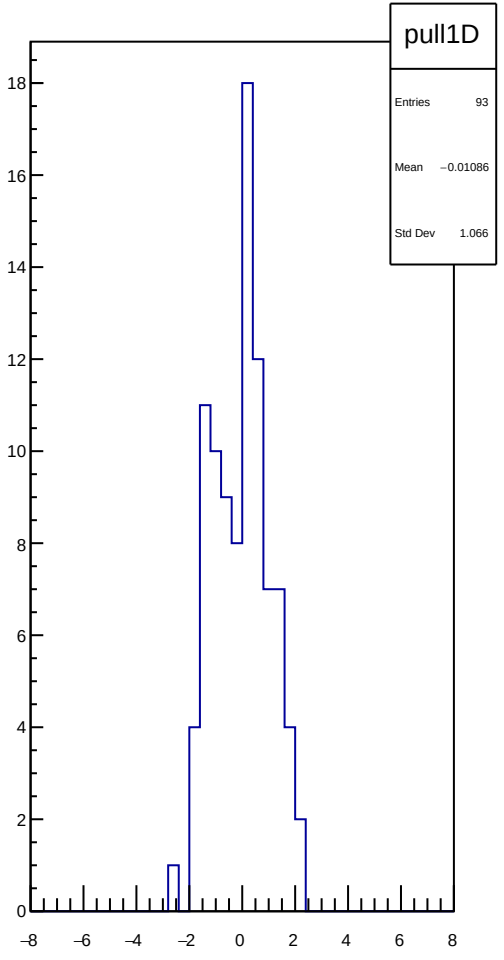

pull1D
Entries 93
Mean 0.02284
Std Dev 0.985

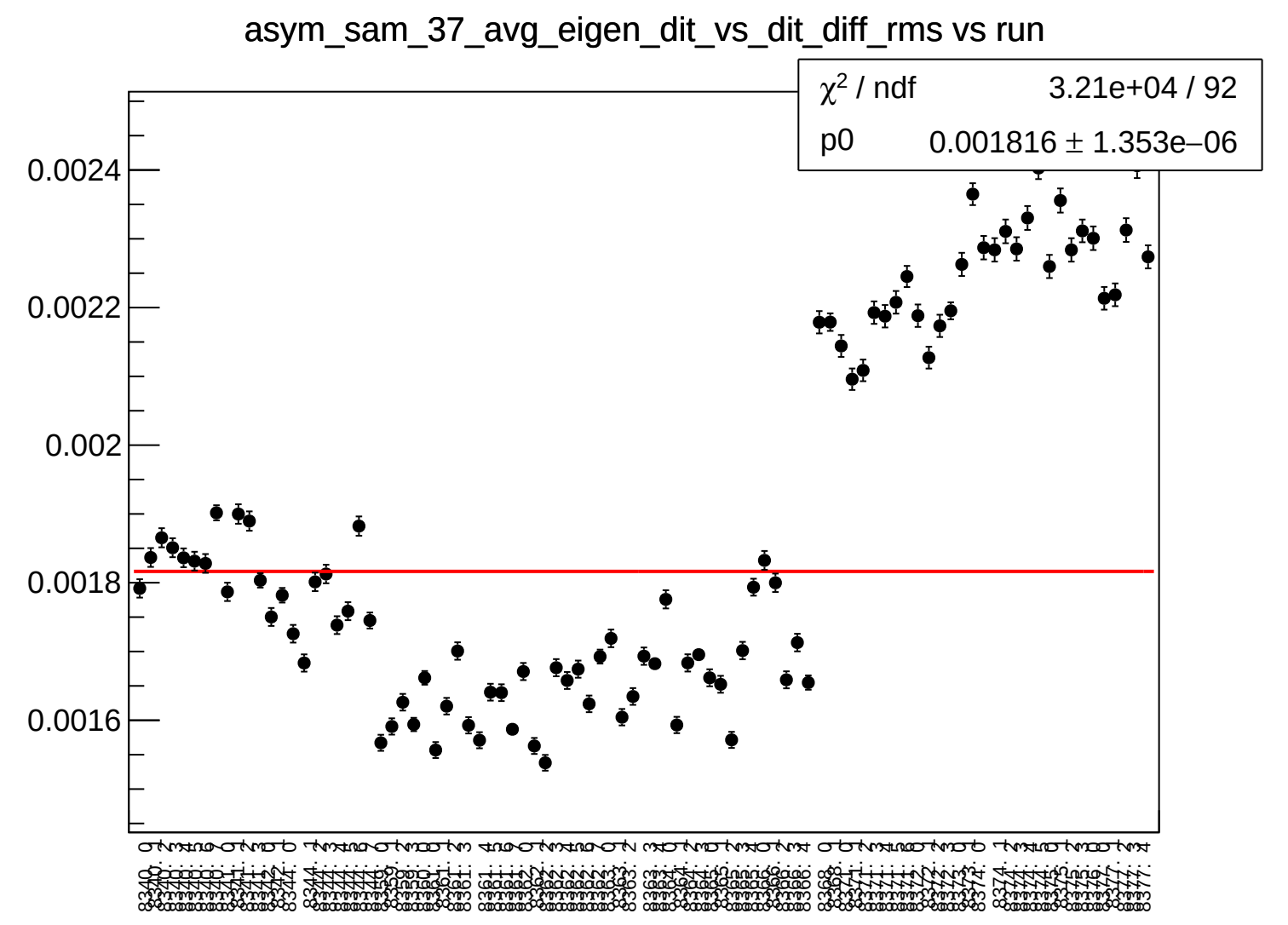

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 92
p0 37.41 ± 0.02852
160
140
120
100
80
60
40
20

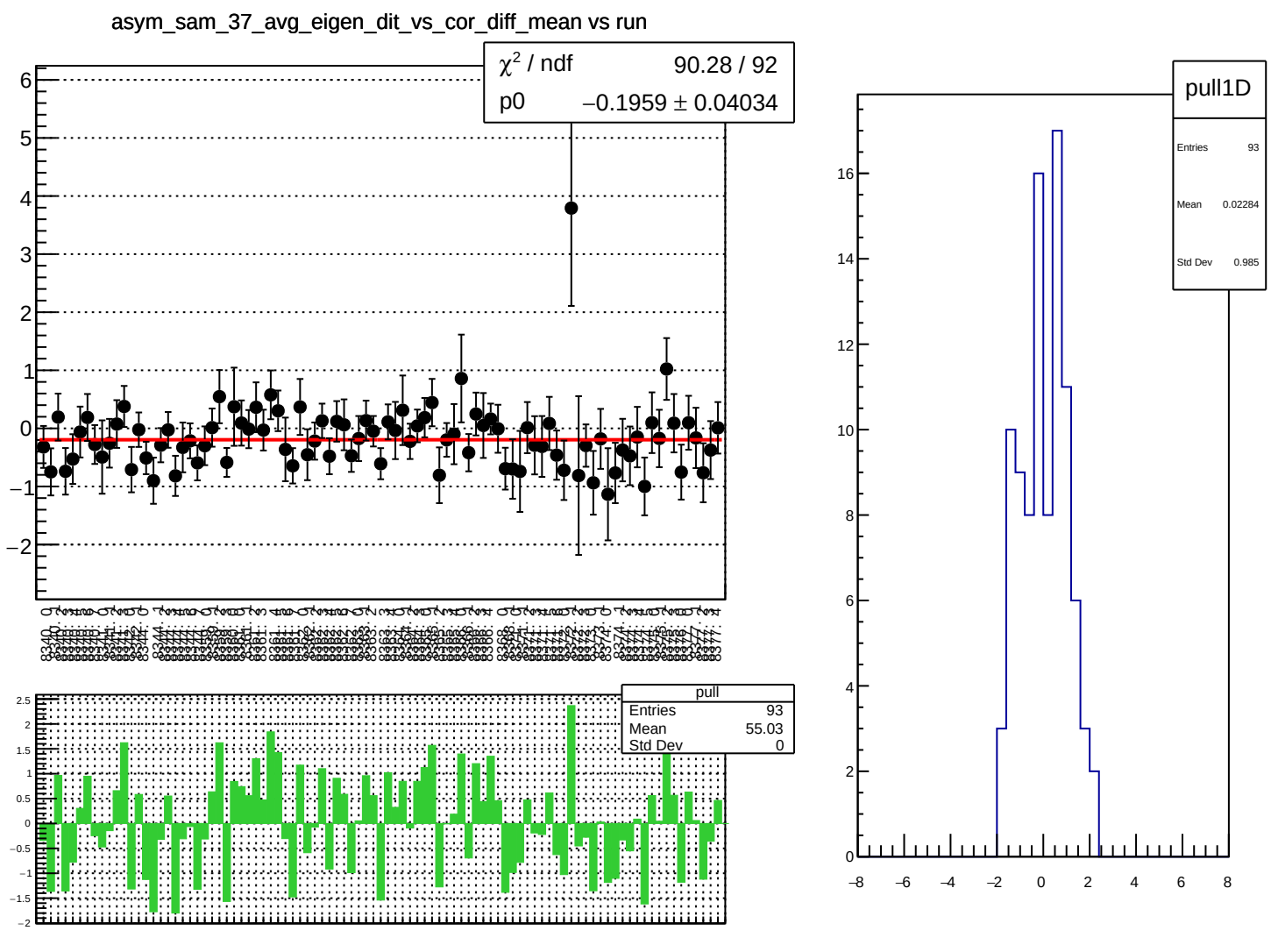

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 92
p0 −0.1959 ± 0.04034
pull
Entries 93
Mean 55.04
Std Dev 0
pull1D
Entries 93
Mean 0.02284
Std Dev 0.985

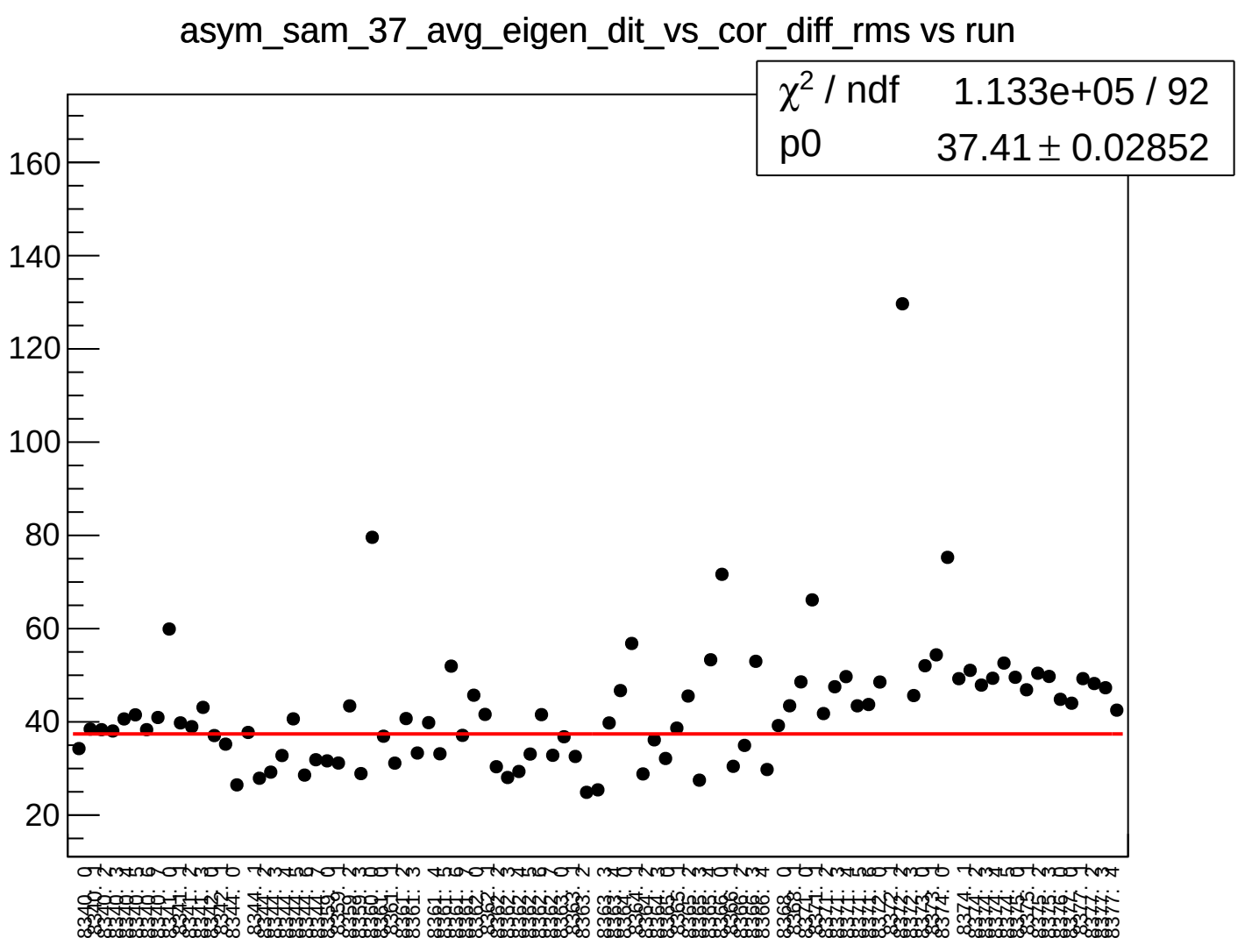

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 92
p0 37.41 ± 0.02852
160
140
120
100
80
60
40
20

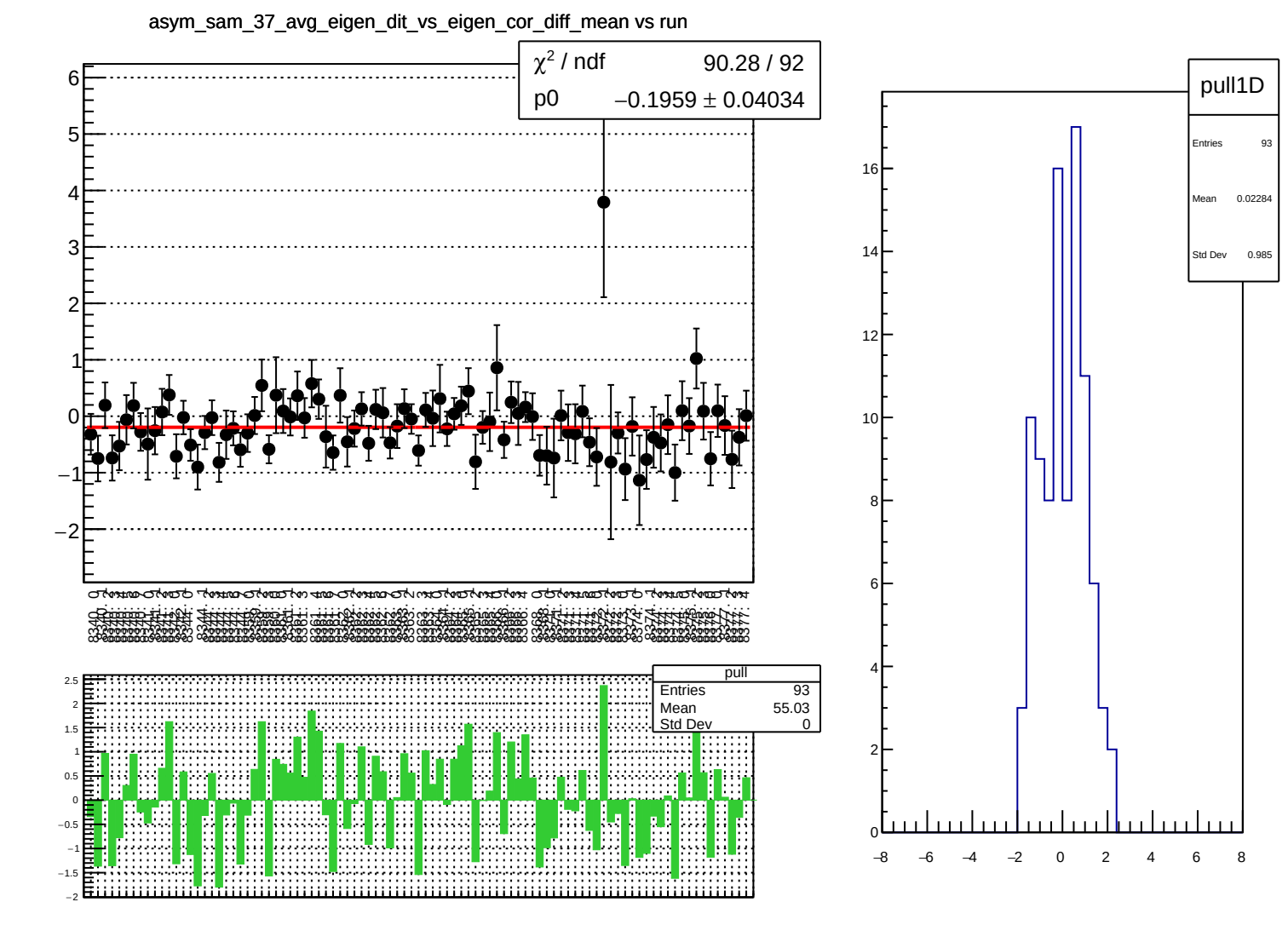

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.6 / 92
p0 9.1e−06 ± 1.914e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 440.4
Std Dev 0
2
1
0
−1
−2

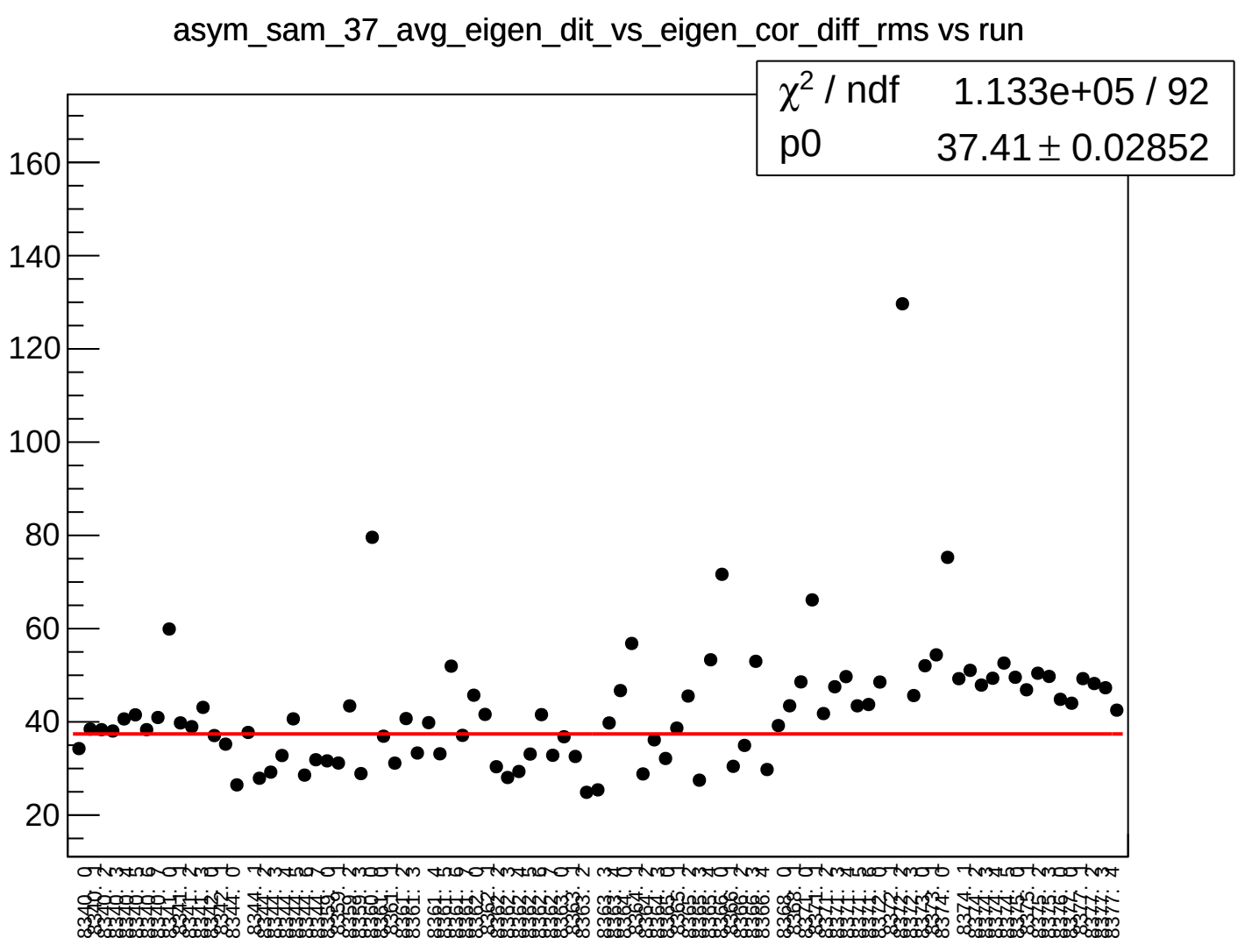

pull1D
Entries 93
Mean −0.01086
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

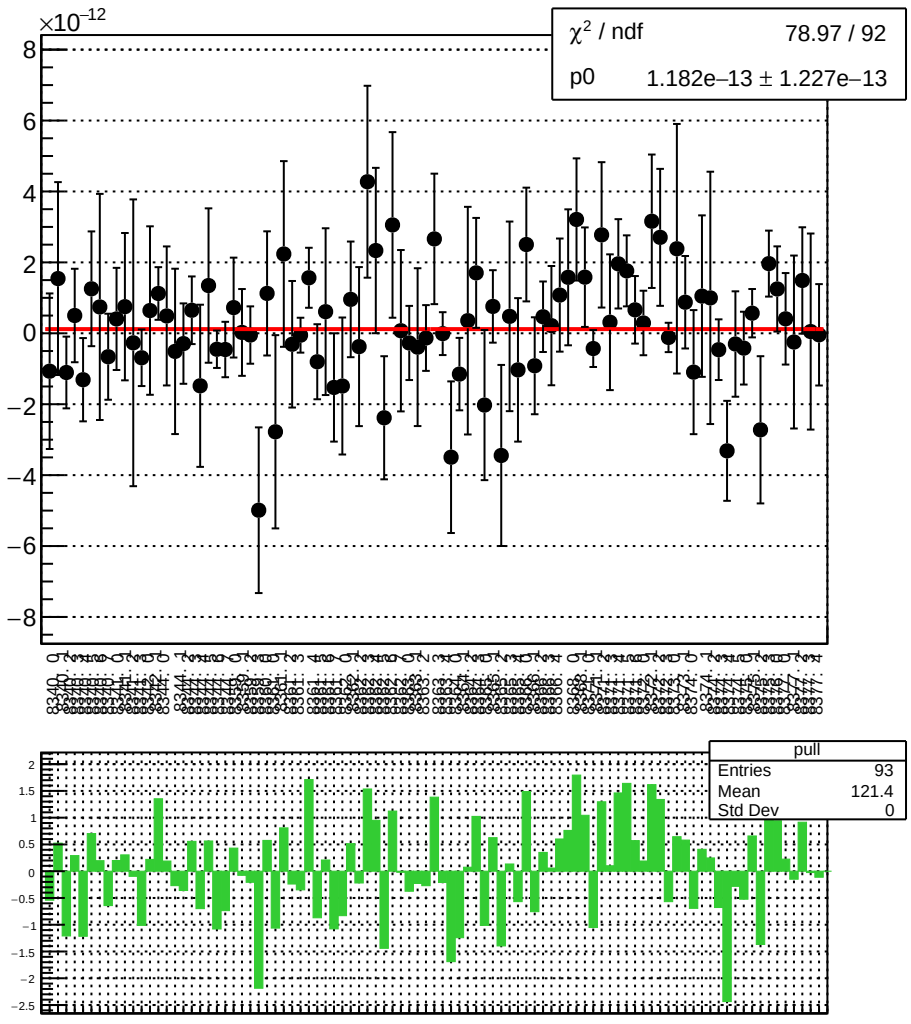

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.21e+04 / 92
p0 0.001816 ± 1.353e−06
0.0024
0.0022
0.002
0.0018
0.0016

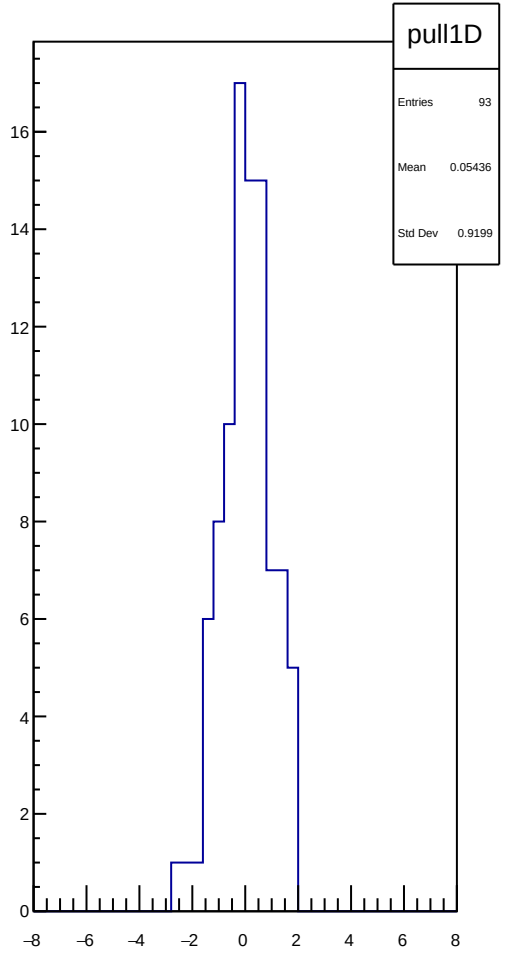

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.28 / 92
p0 −0.1959 ± 0.04034
pull
Entries 93
Mean 55.03
Std Dev 0
pull1D
Entries 93
Mean 0.02284
Std Dev 0.985

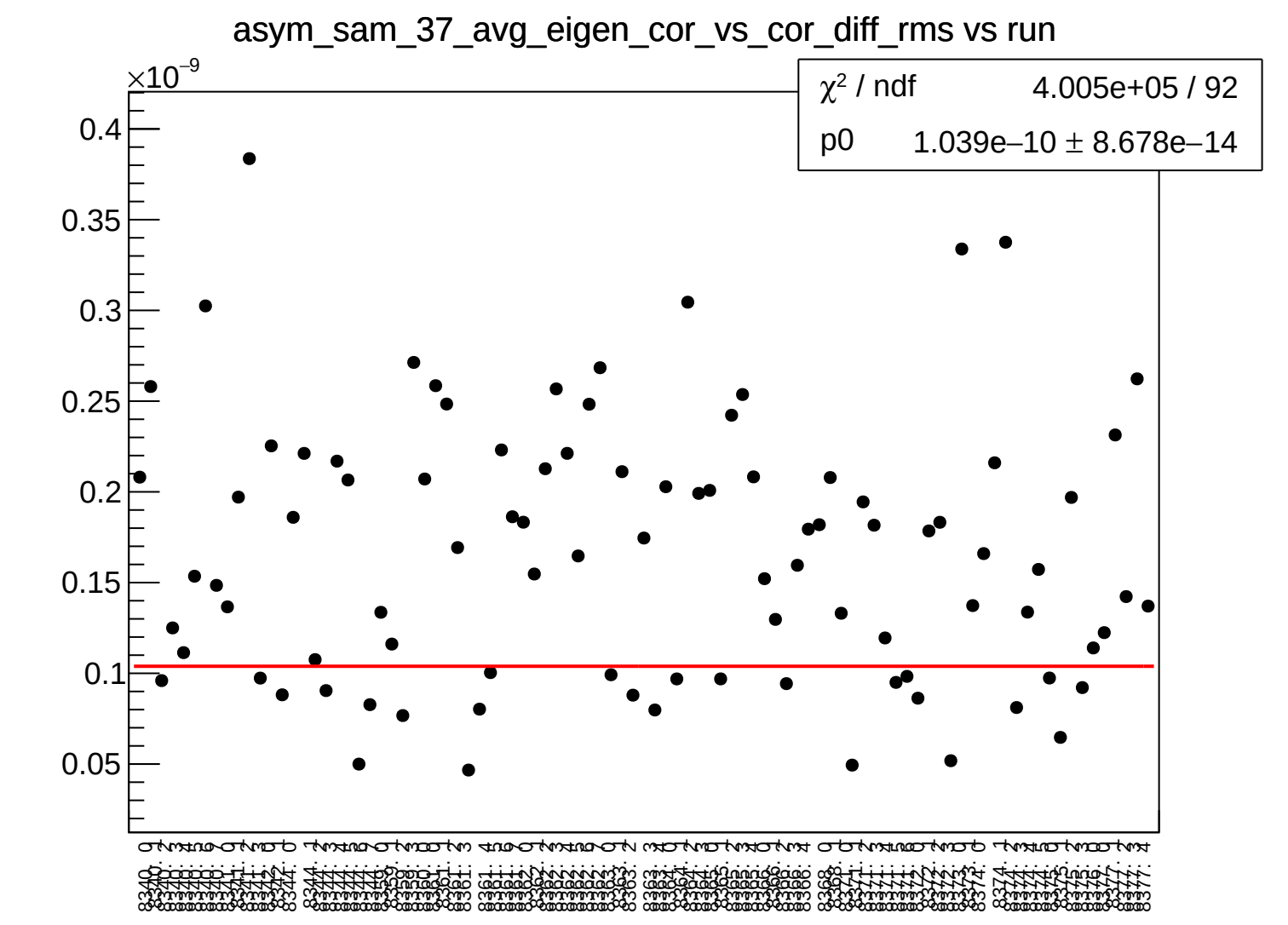

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 92
p0 37.41 ± 0.02852
160
140
120
100
80
60
40
20

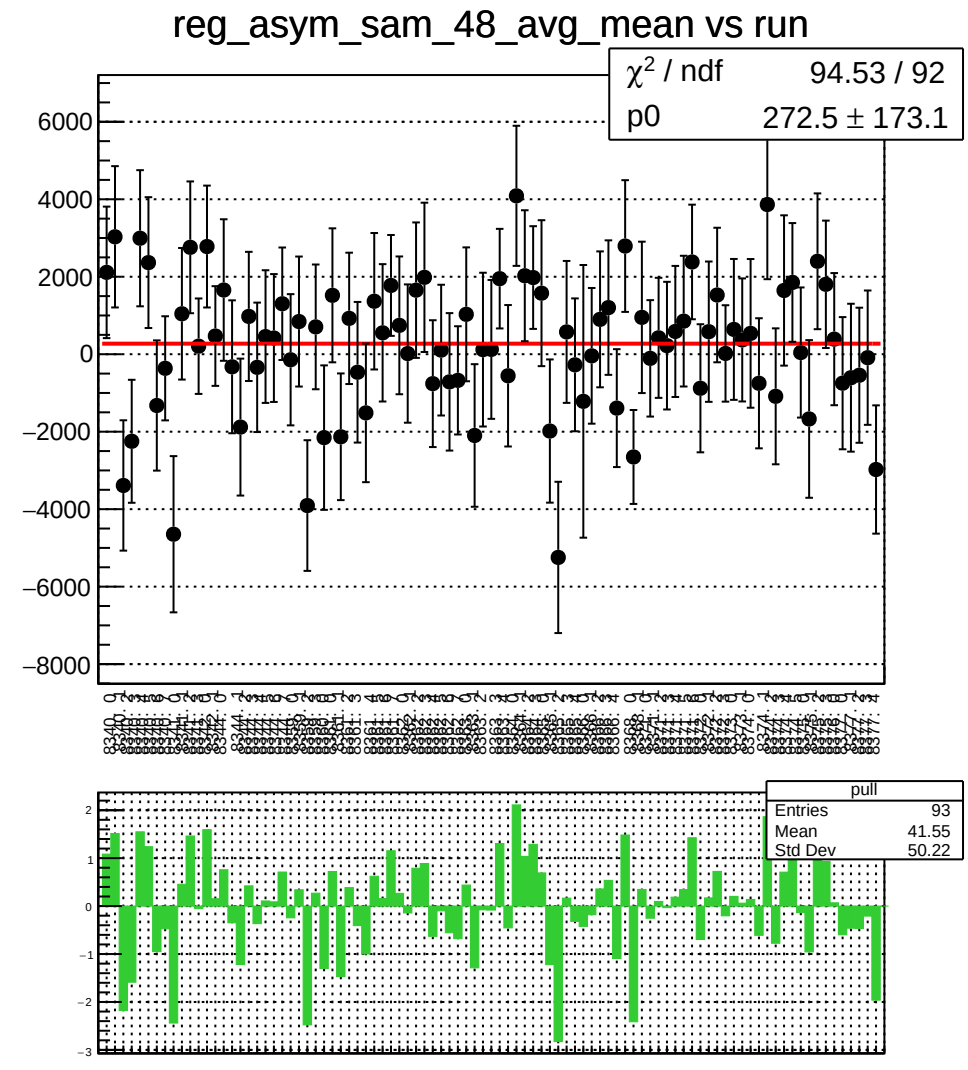

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.28 / 92
p0 −0.1959 ± 0.04034
pull
Entries 93
Mean 55.03
Std Dev 0
pull1D
Entries 93
Mean 0.02284
Std Dev 0.985

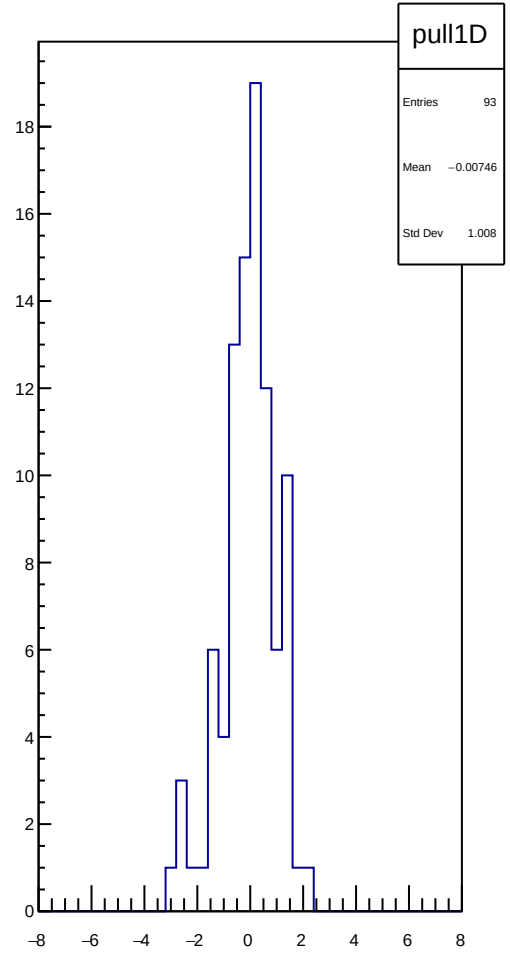

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.133e+05 / 92
p0 37.41 ± 0.02852
160
140
120
100
80
60
40
20

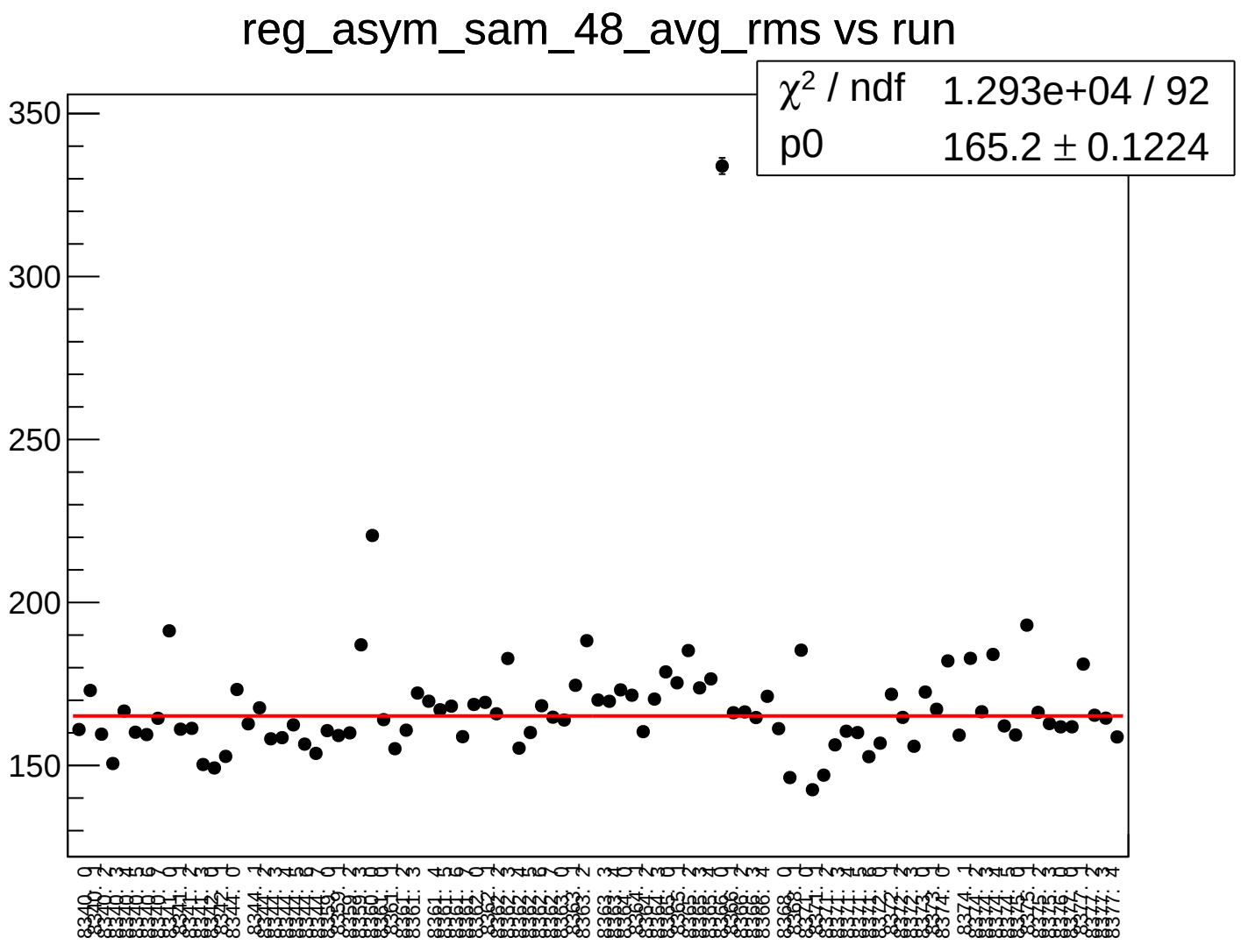

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.97 / 92
p0 1.182e−13 ± 1.227e−13
pull
Entries 93
Mean 121.4
Std Dev 0

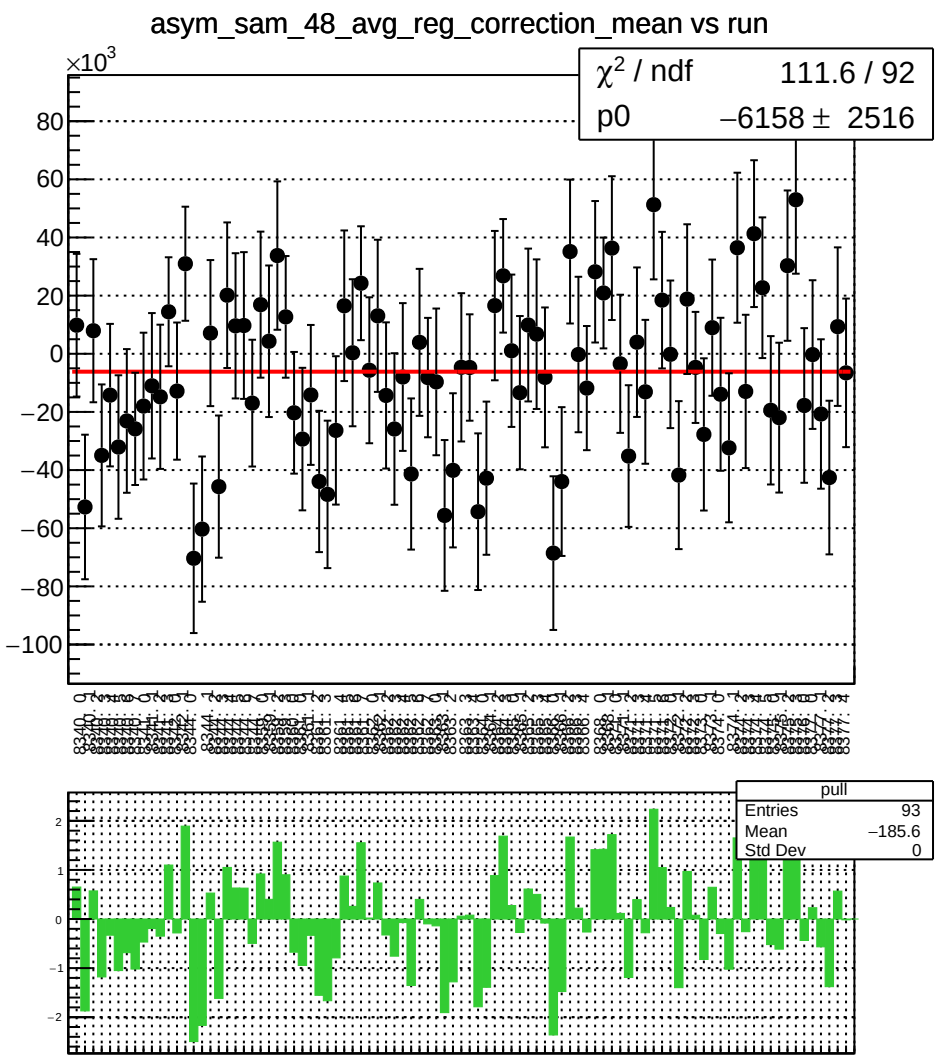

pull1D
Entries 93
Mean 0.05436
Std Dev 0.9199

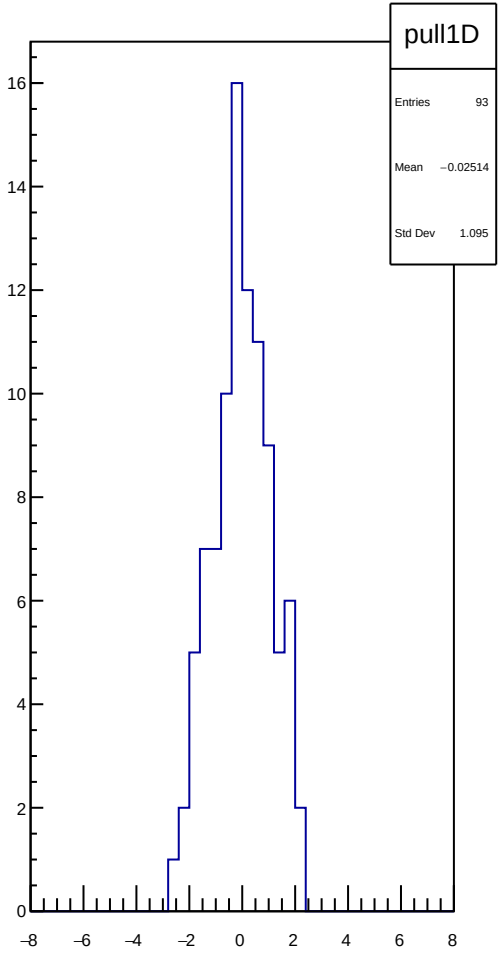

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.005e+05 / 92
p0 1.039e−10 ± 8.678e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

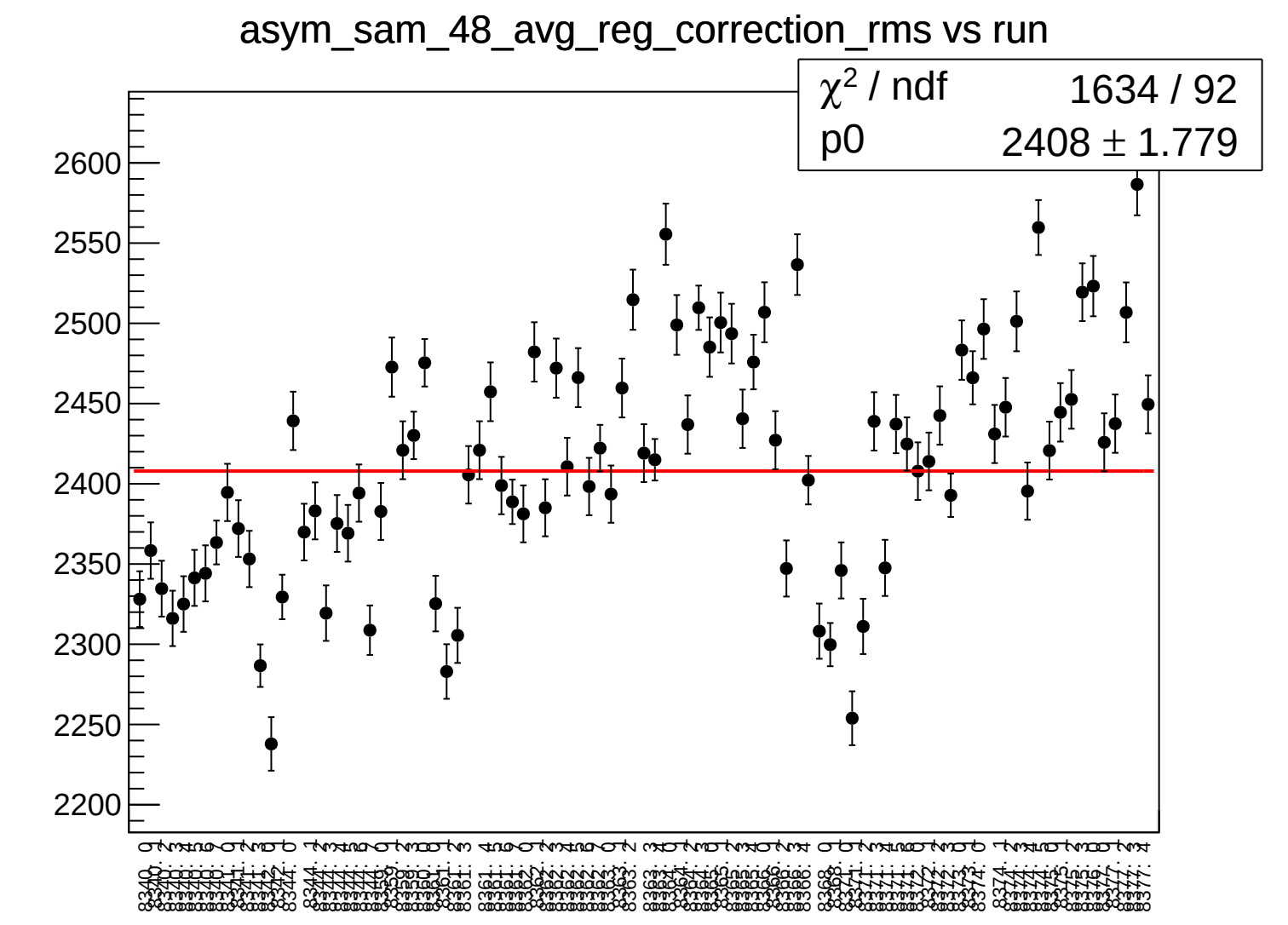

reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 94.53 / 92
p0 272.5 ± 173.1
pull
Entries 93
Mean 41.55
Std Dev 50.22

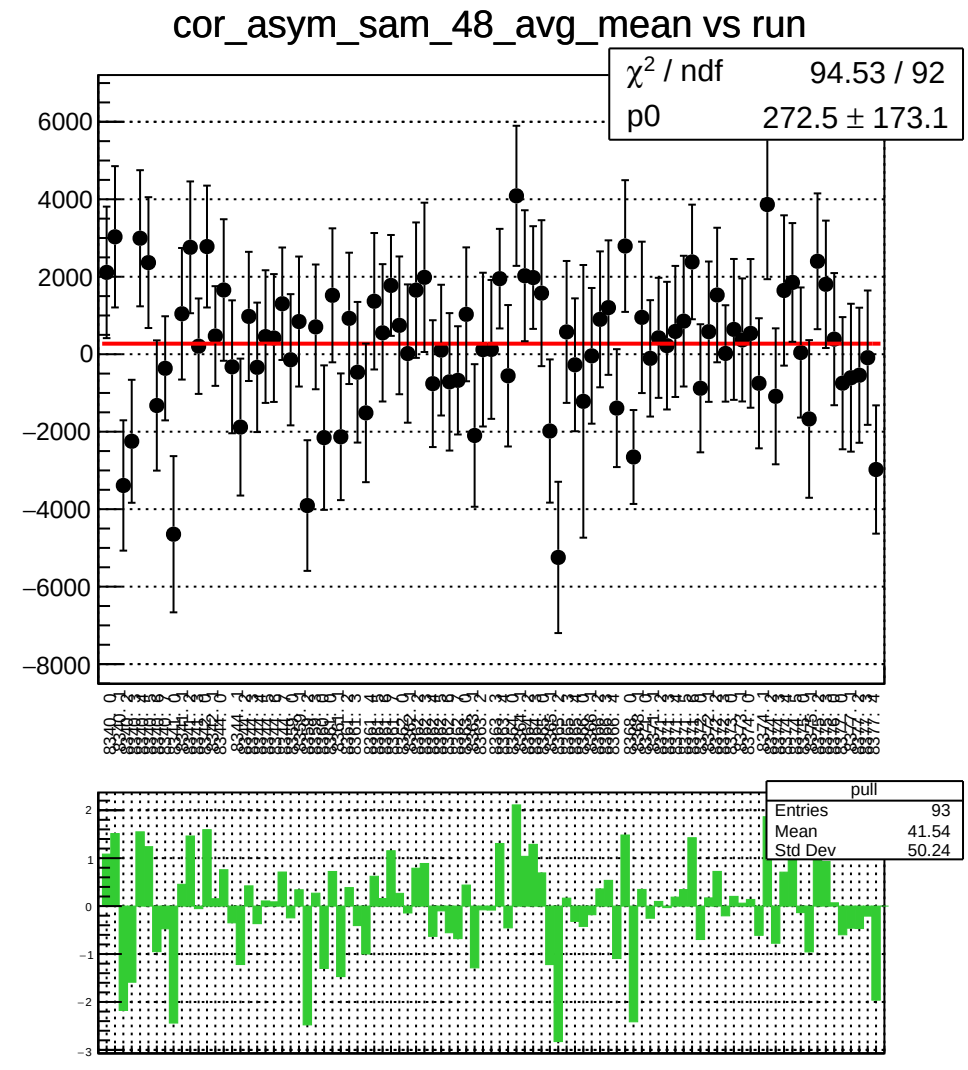

pull1D
Entries 93
Mean −0.00746
Std Dev 1.008

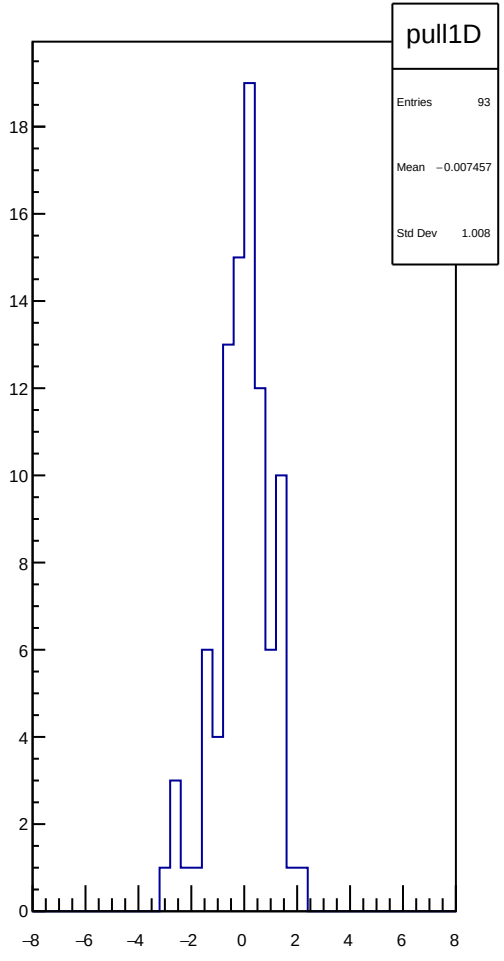

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.293e+04 / 92
p0 165.2 ± 0.1224
350
300
250
200
150

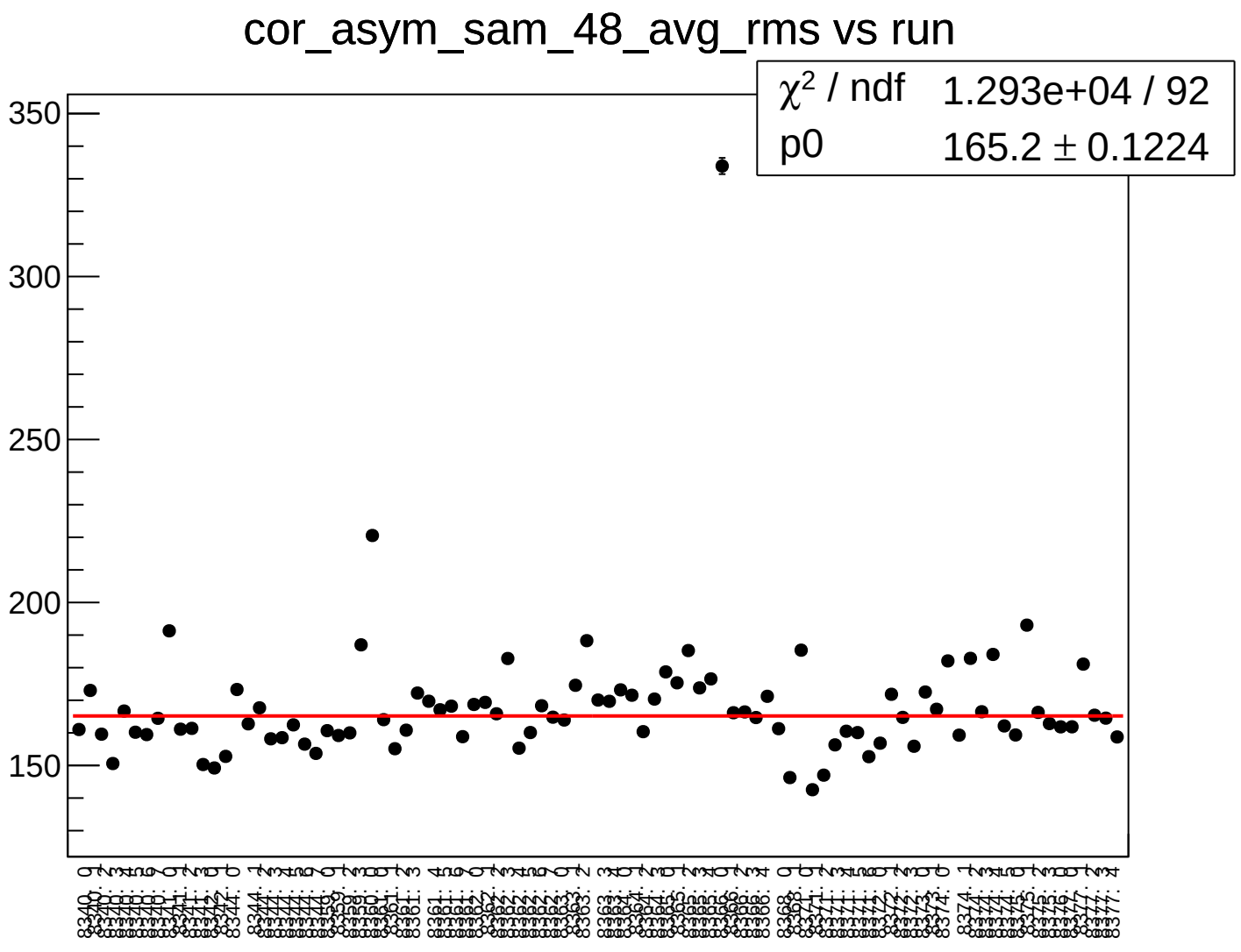

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 111.6 / 92
p0 −6158 ± 2516
pull
Entries 93
Mean −185.6
Std Dev 0

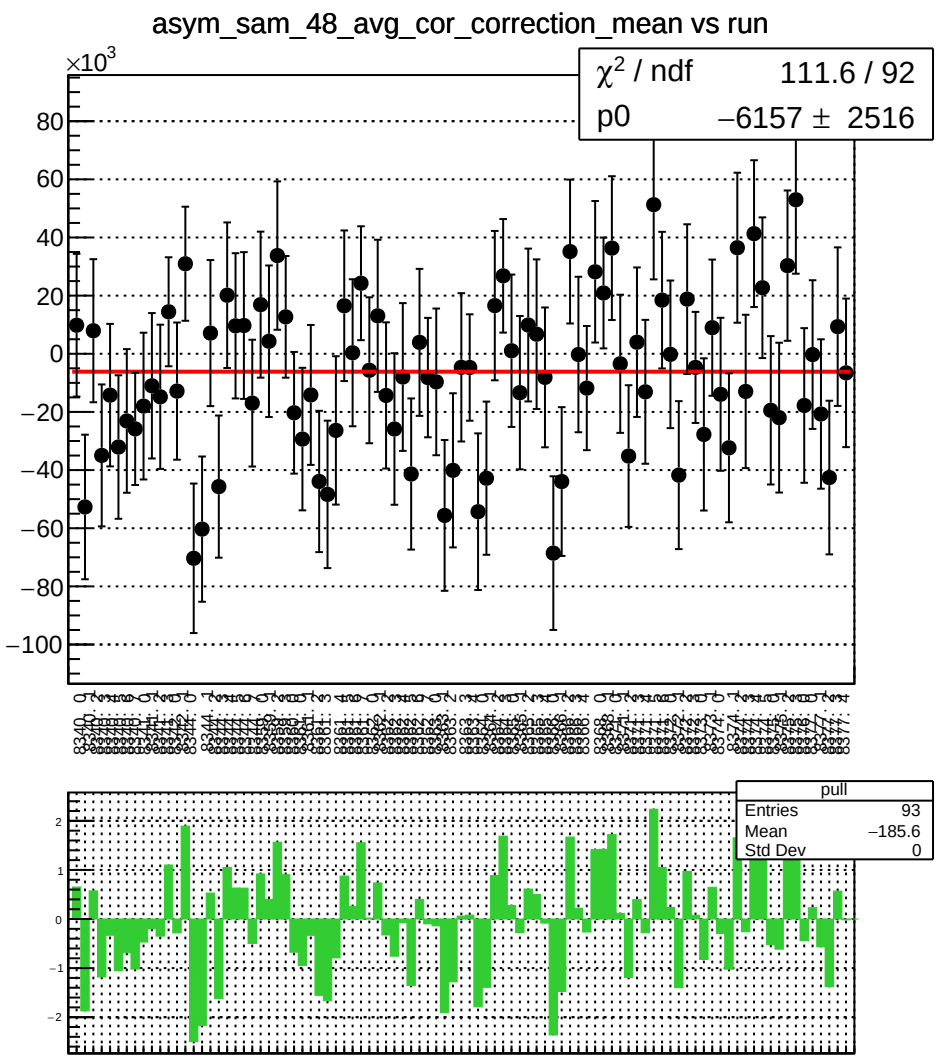

pull1D
Entries 93
Mean −0.02514
Std Dev 1.095

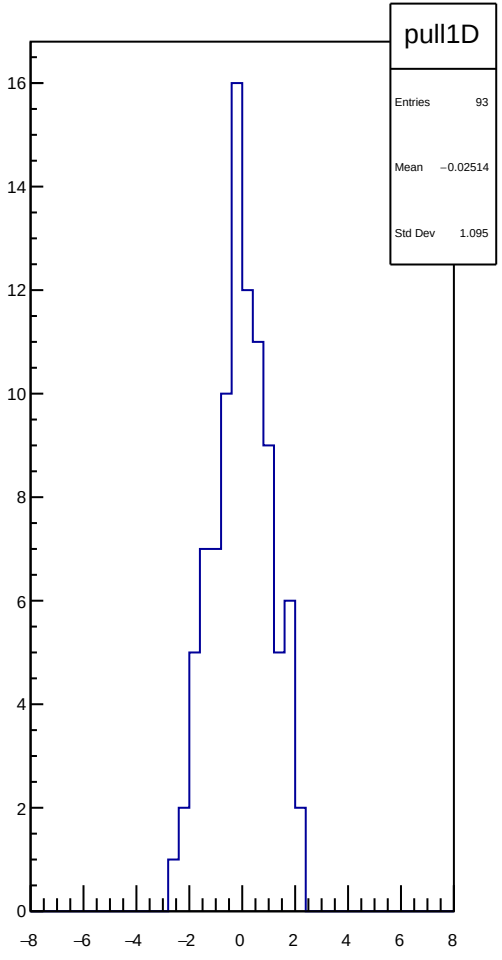

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1634 / 92
p0 2408 ± 1.779
2600
2550
2500
2450
2400
2350
2300
2250
2200

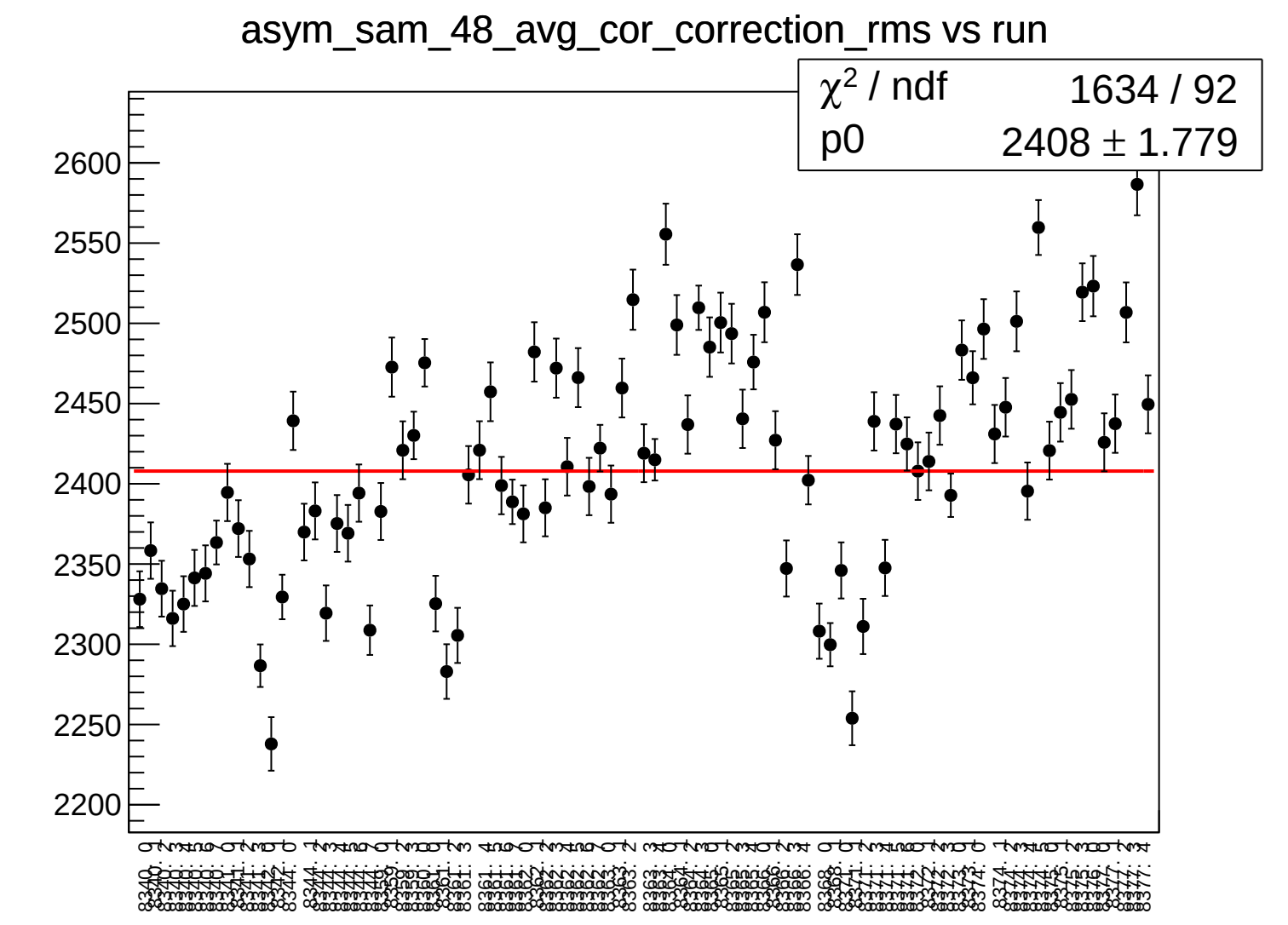

cor_asym_sam_48_avg_mean vs run
χ² / ndf 94.53 / 92
p0 272.5 ± 173.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 41.54
Std Dev 50.24
2
1
0
−1
−2
−3

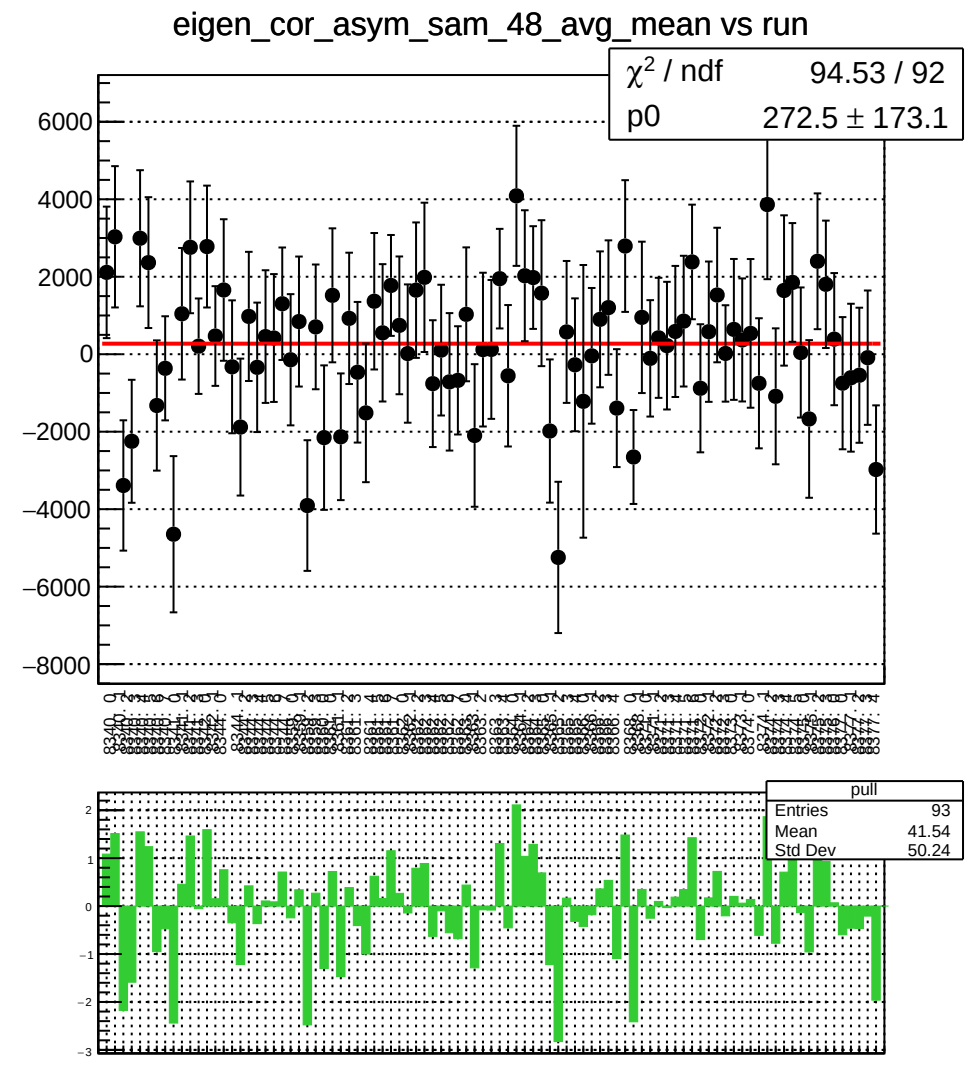

pull1D
Entries 93
Mean −0.007457
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

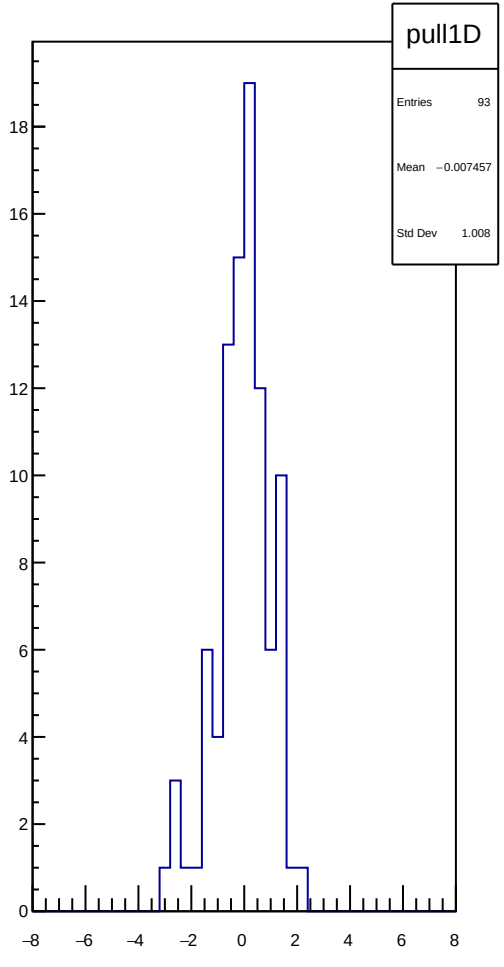

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.293e+04 / 92
p0 165.2 ± 0.1224
350
300
250
200
150

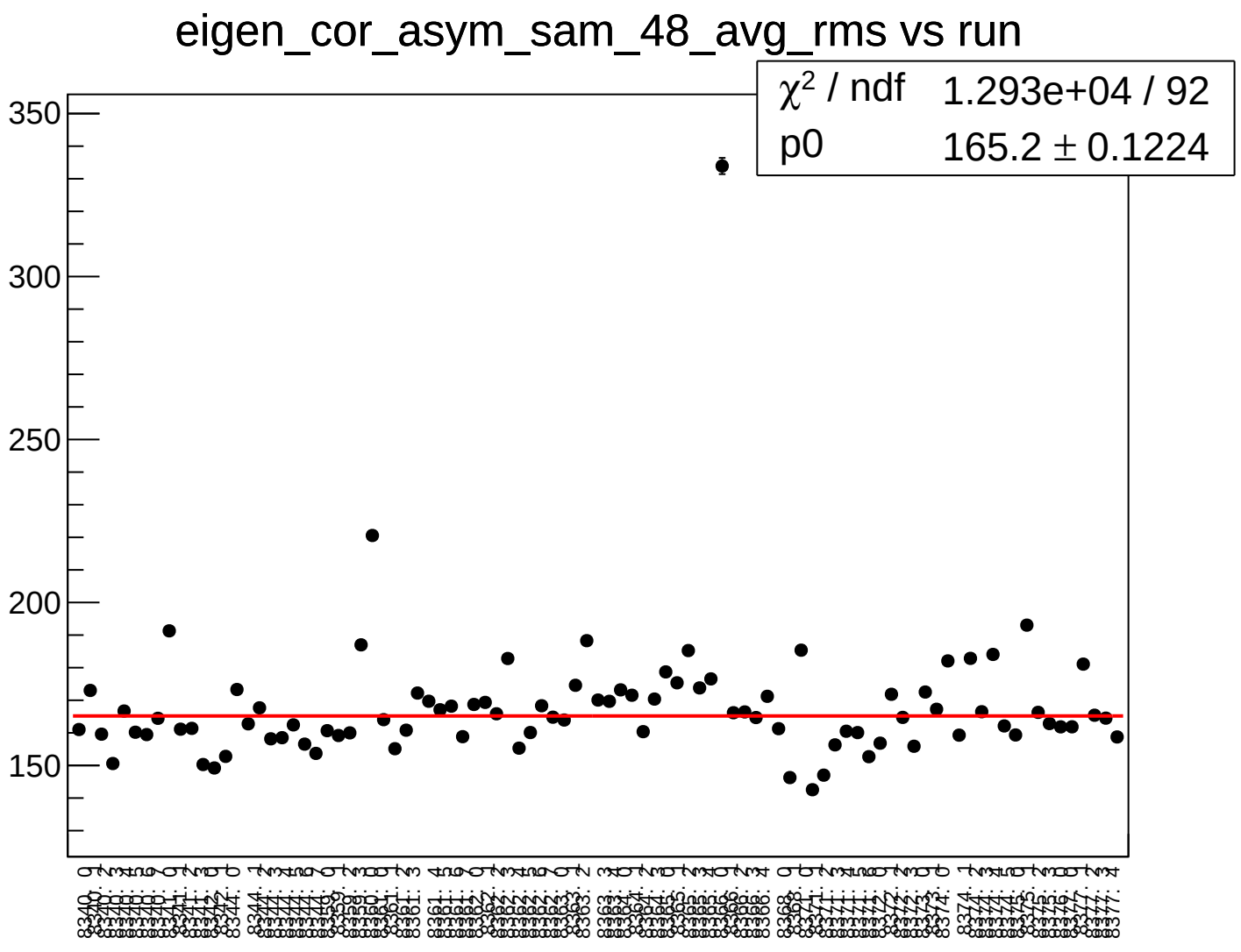

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 111.6 / 92
p0 −6157 ± 2516
pull
Entries 93
Mean −185.6
Std Dev 0

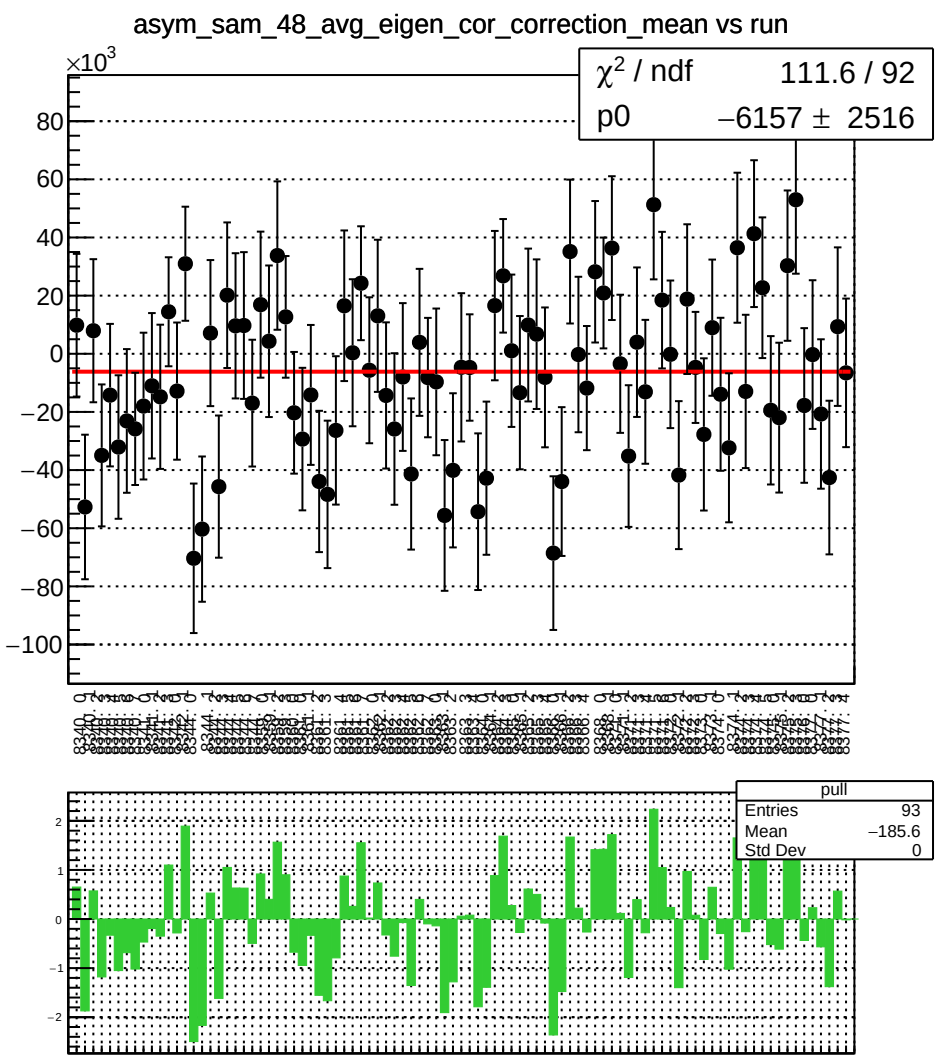

pull1D
Entries 93
Mean −0.02514
Std Dev 1.095

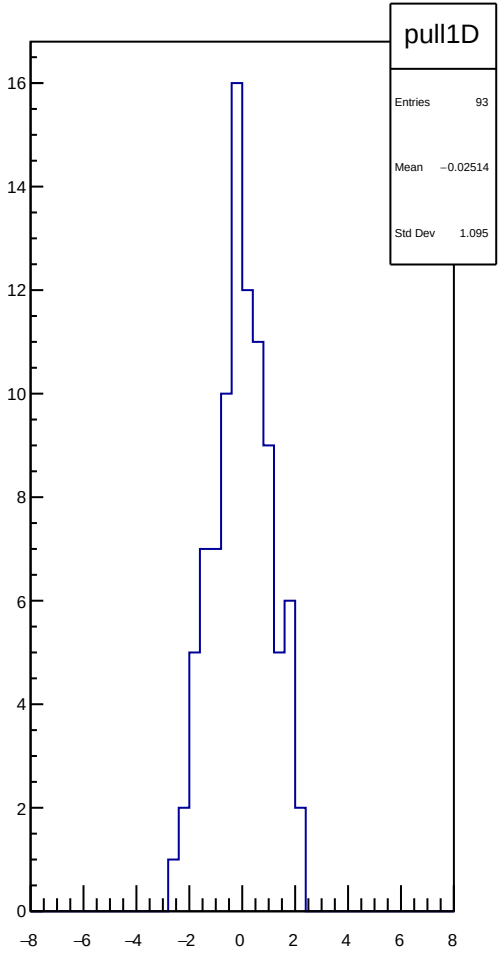

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1634 / 92
p0 2408 ± 1.779
2600
2550
2500
2450
2400
2350
2300
2250
2200

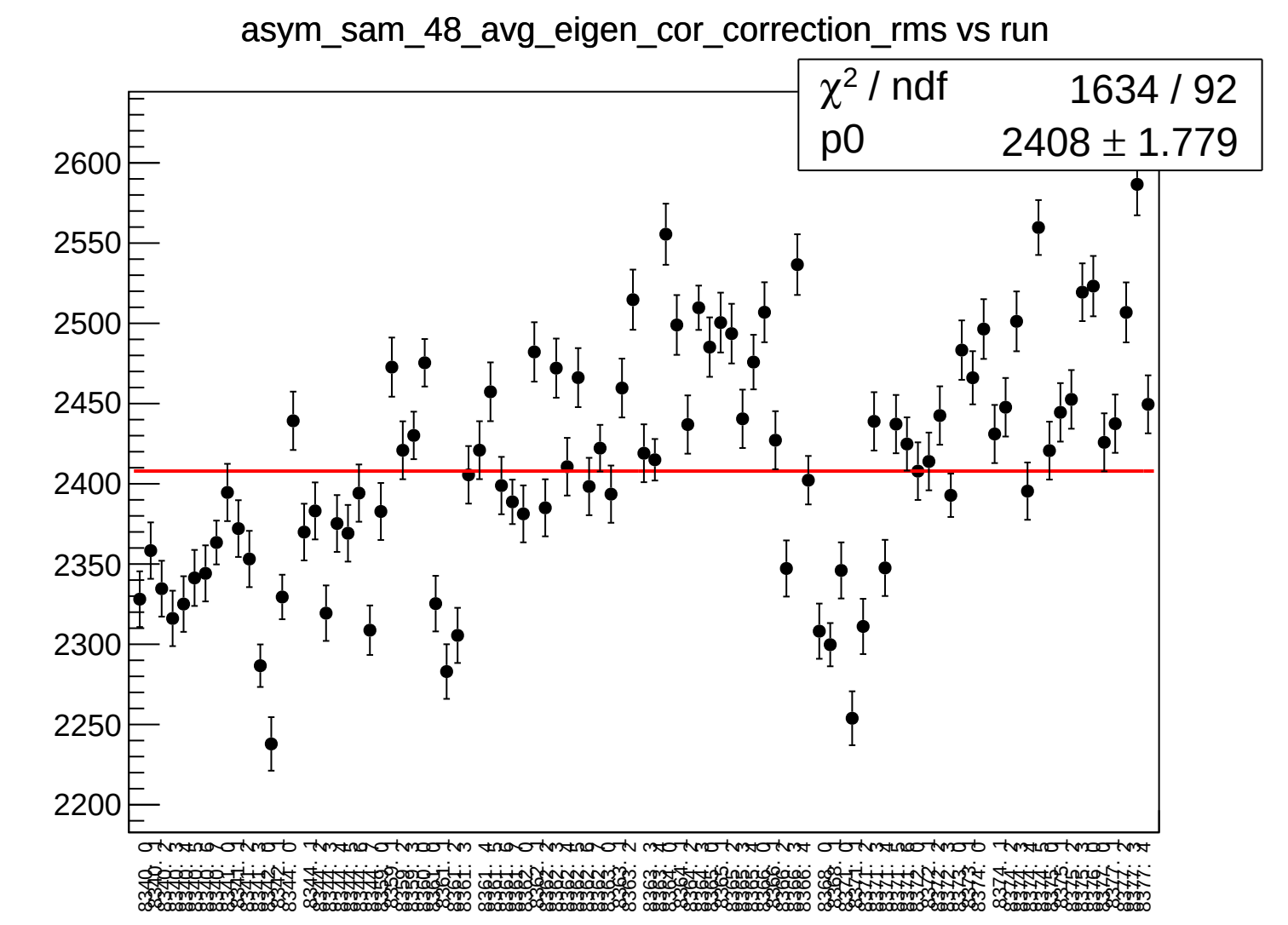

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 94.53 / 92
p0 272.5 ± 173.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 41.54
Std Dev 50.24
2
1
0
−1
−2
−3

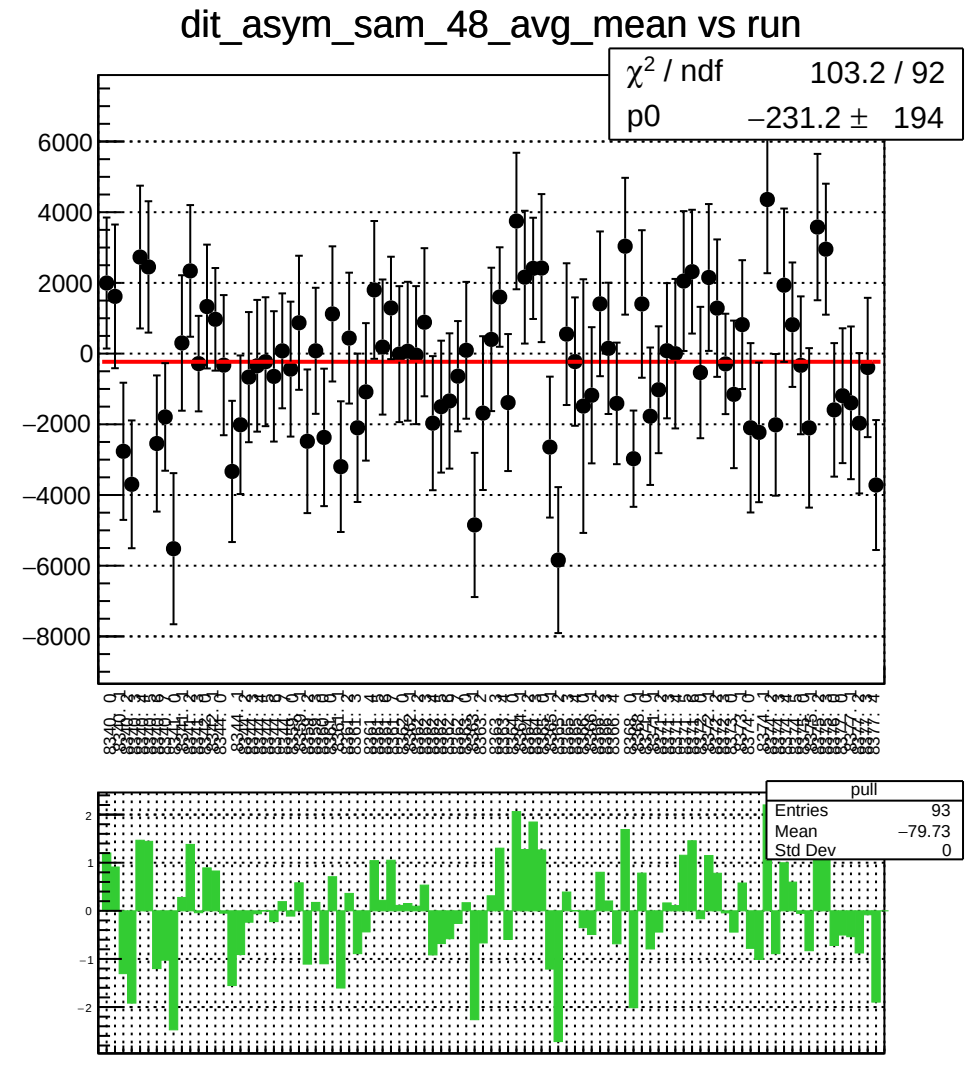

pull1D
Entries 93
Mean −0.007457
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

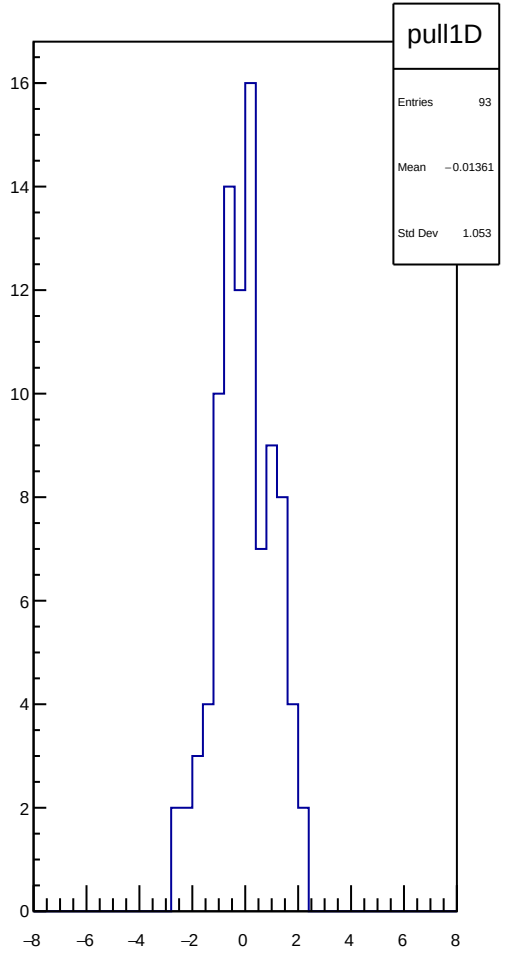

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1.293e+04 / 92
p0 165.2 ± 0.1224
350
300
250
200
150

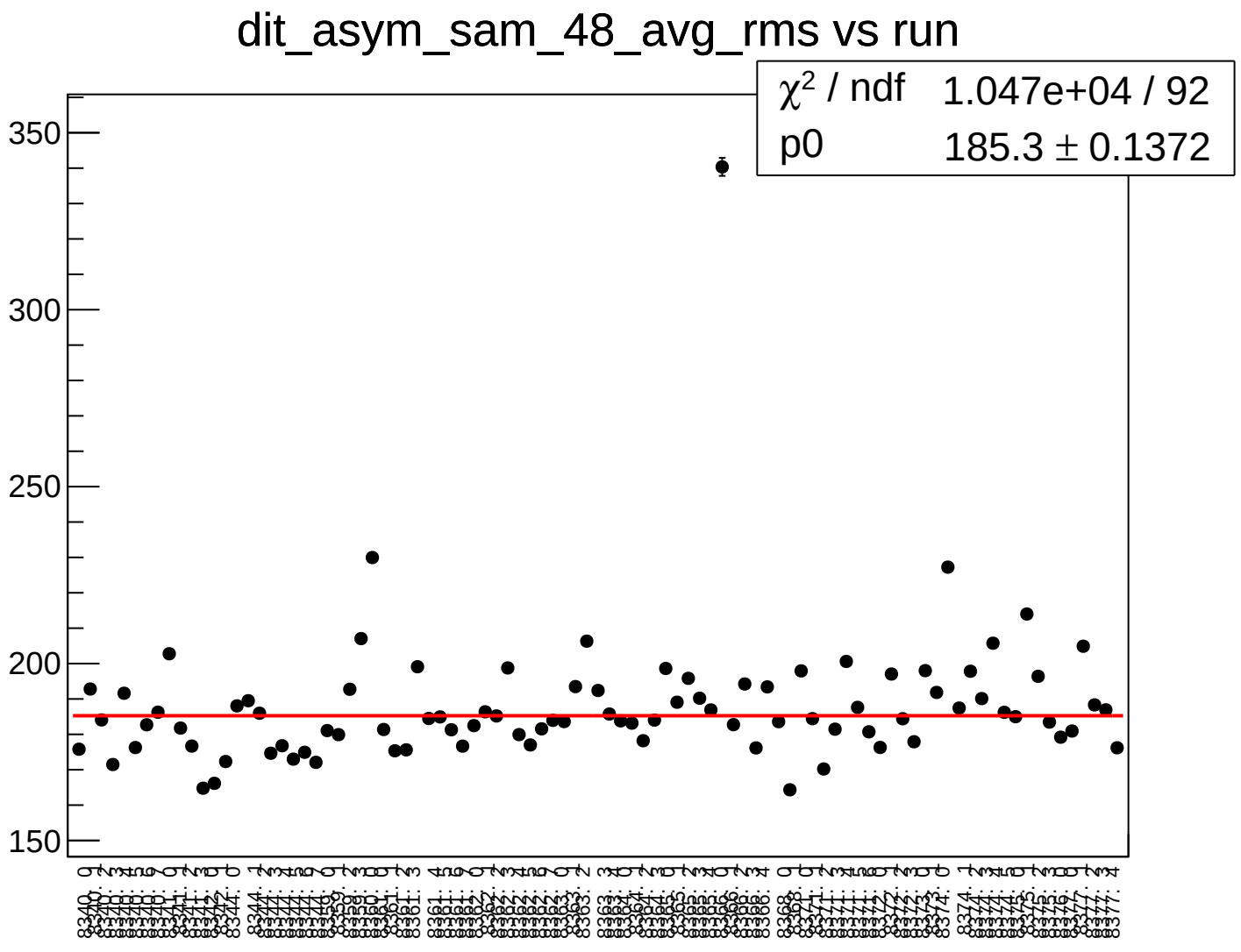

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 111.6 / 92
p0 −6157 ± 2516
pull
Entries 93
Mean −185.6
Std Dev 0

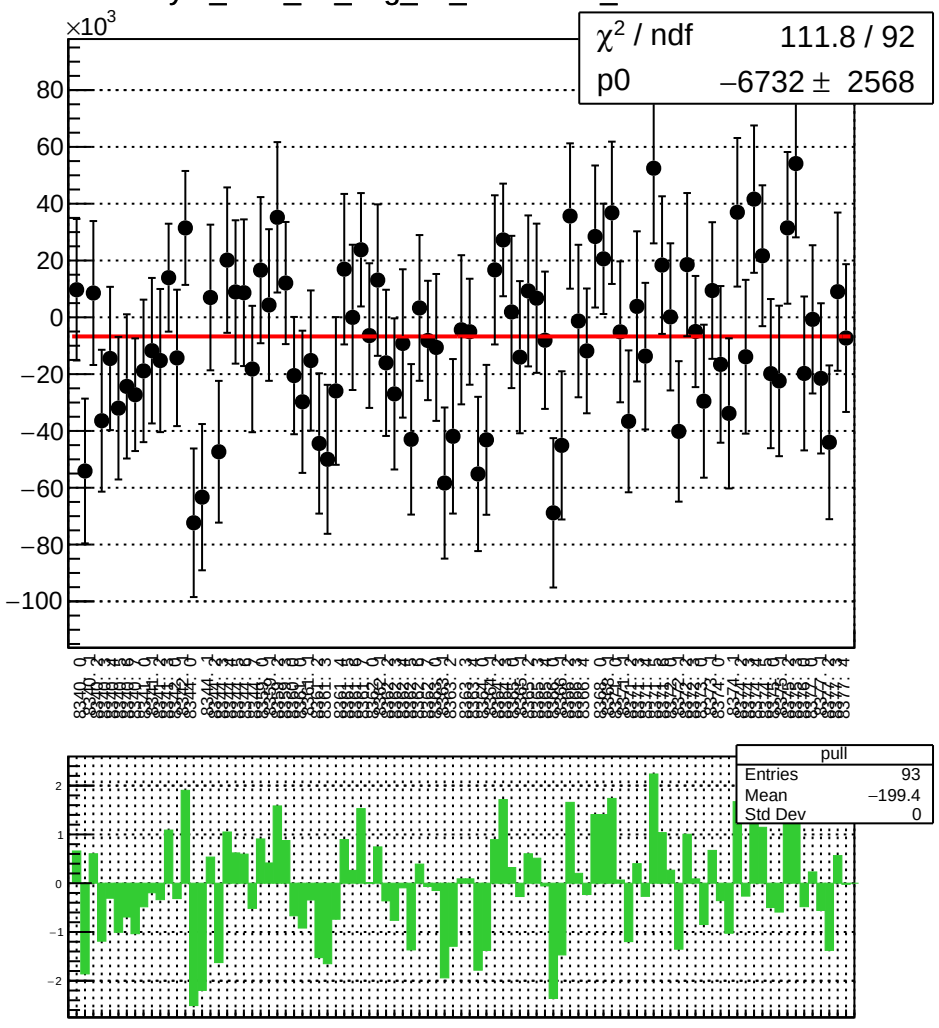

pull1D
Entries 93
Mean −0.02514
Std Dev 1.095

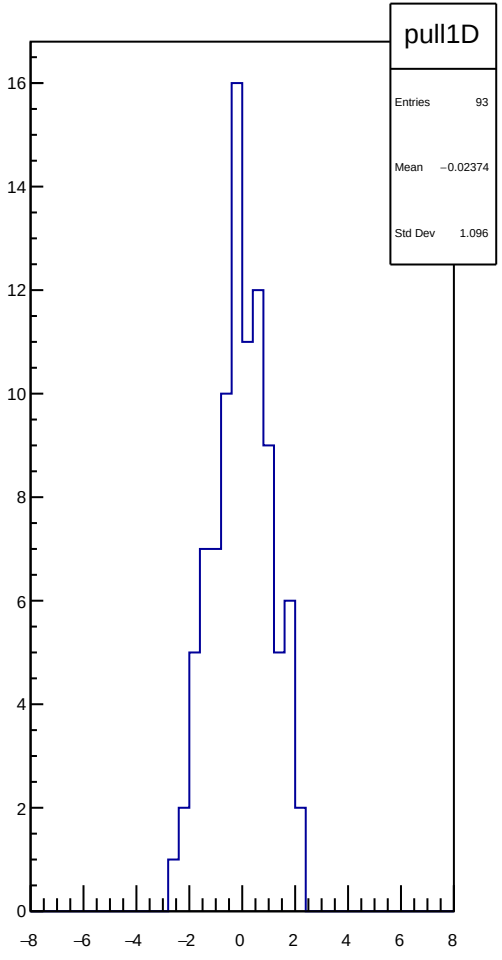

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1634 / 92
p0 2408 ± 1.779
2600
2550
2500
2450
2400
2350
2300
2250
2200

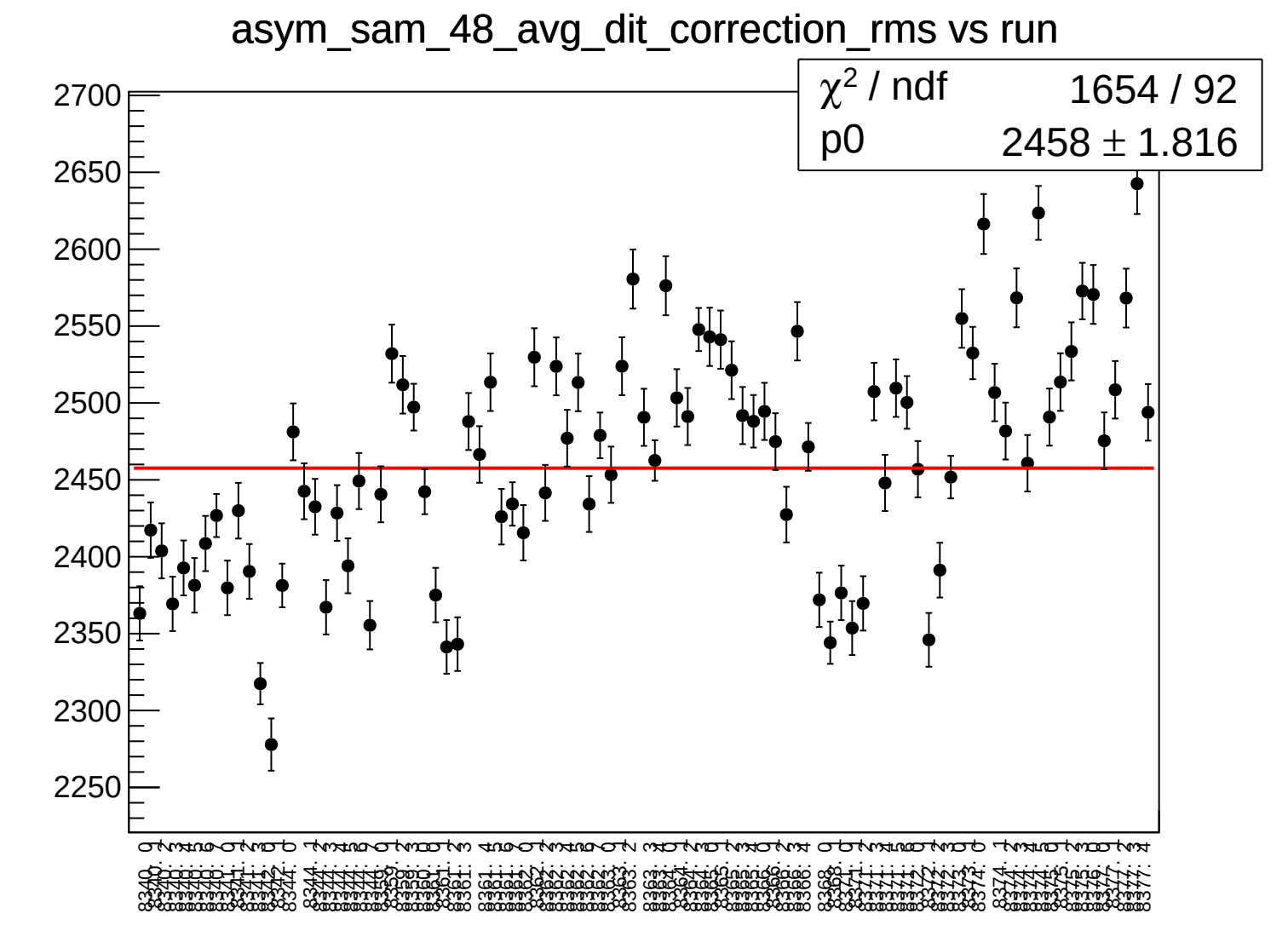

dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 92
p0 −231.2 ± 194
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −79.73
Std Dev 0
2
1
0
−1
−2

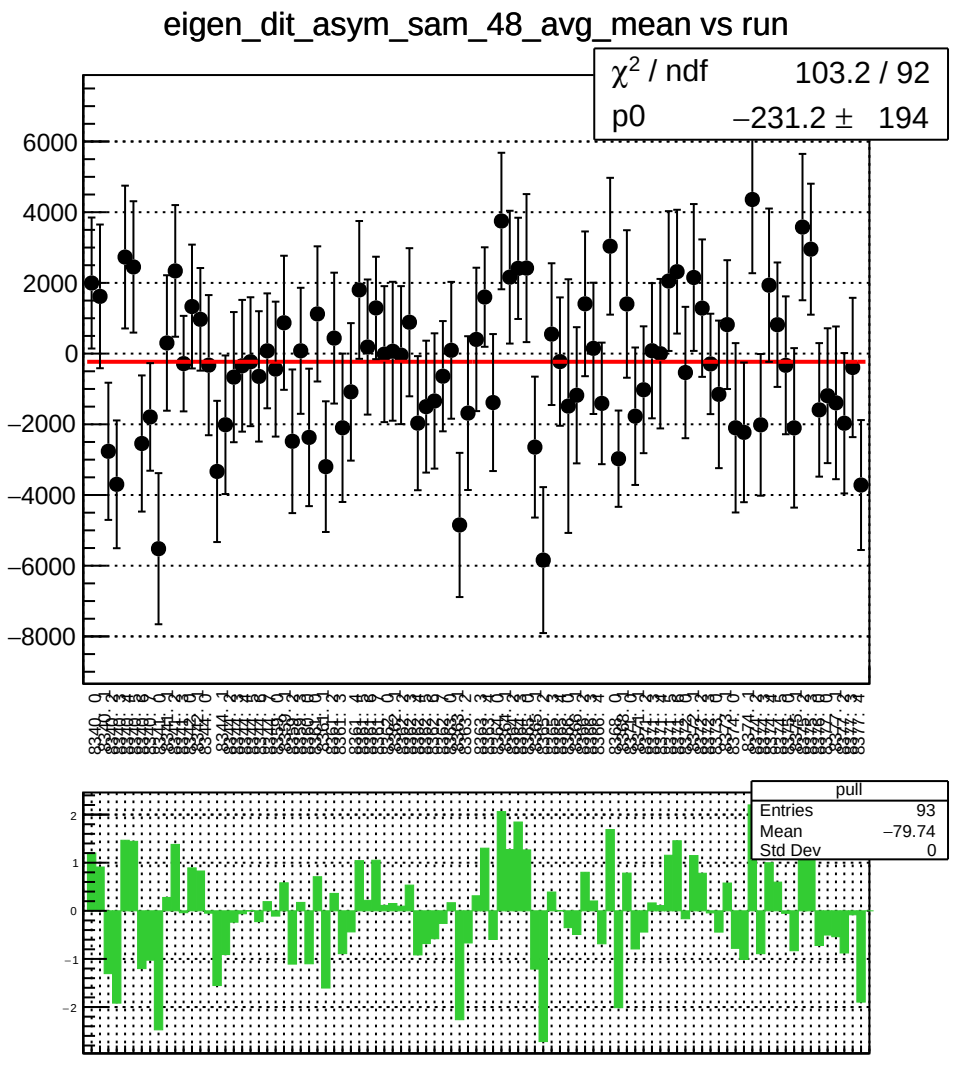

pull1D
Entries 93
Mean −0.01361
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

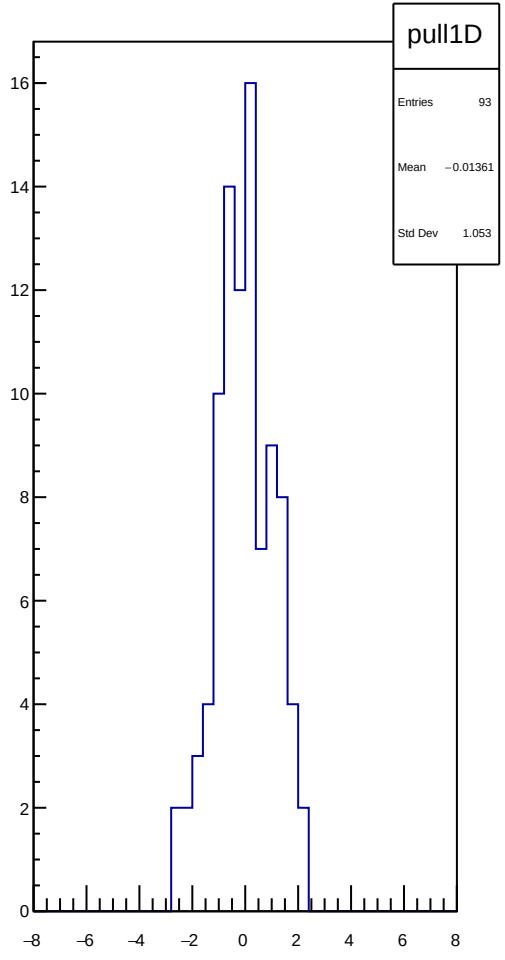

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.047e+04 / 92
p0 185.3 ± 0.1372
350
300
250
200
150

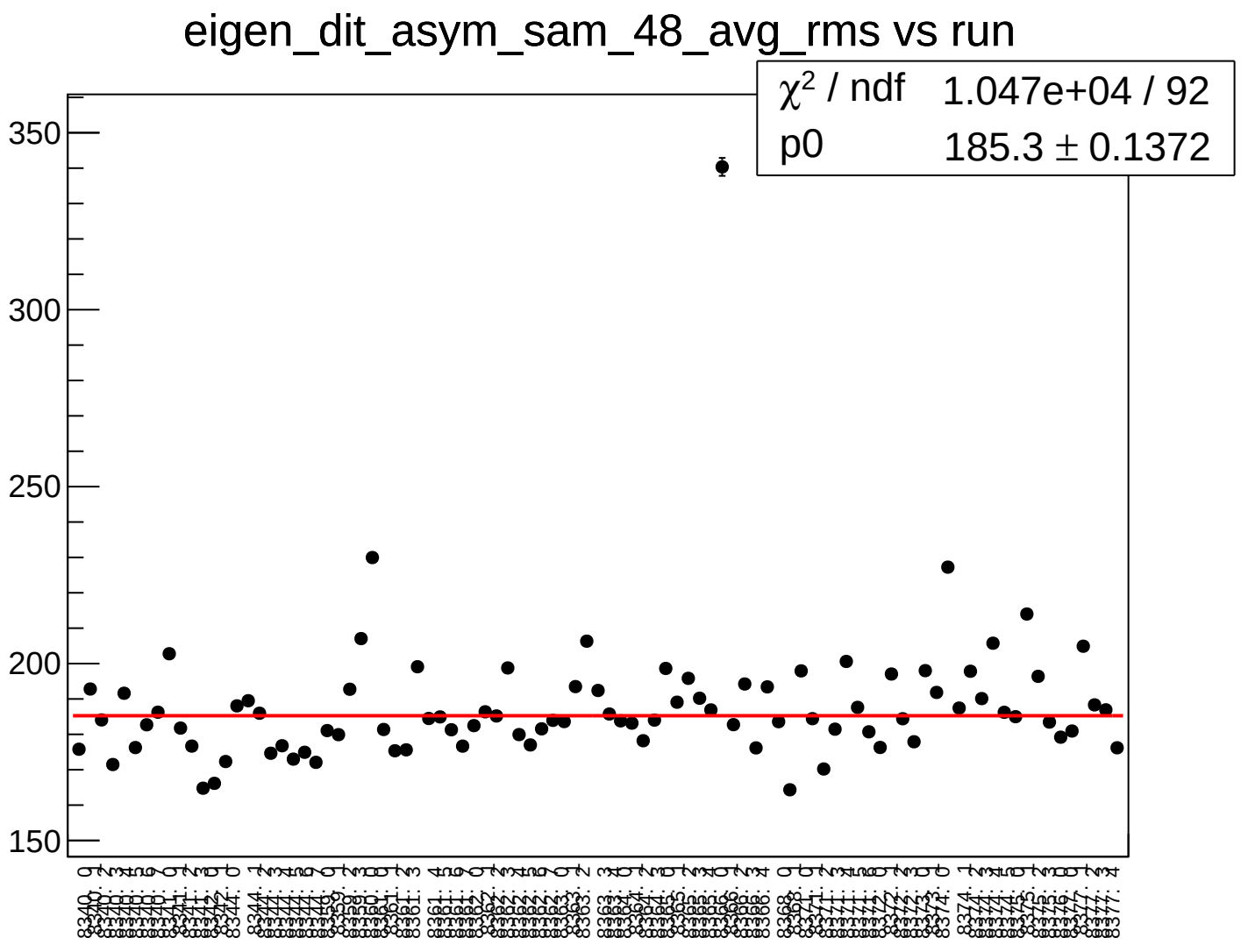

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ² / ndf 111.8 / 92
p0 −6732 ± 2568
pull
Entries 93
Mean −199.4
Std Dev 0

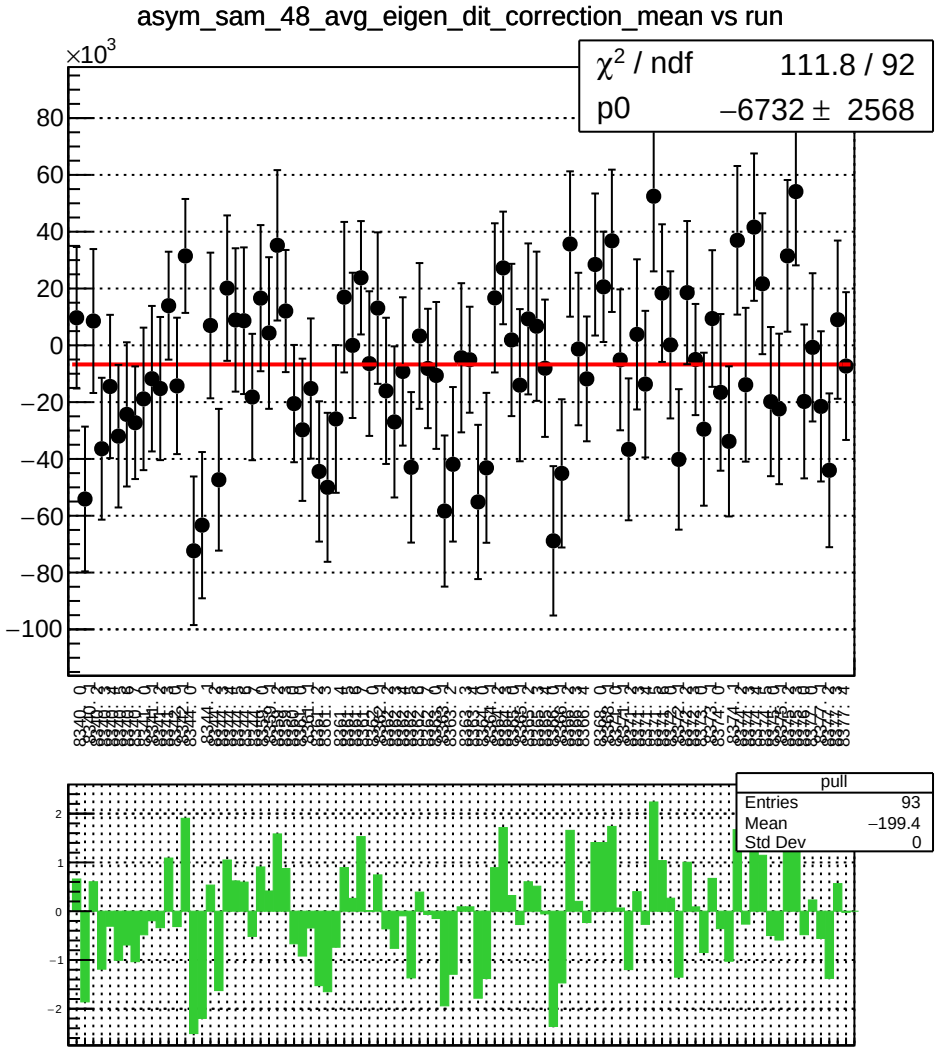

pull1D
Entries 93
Mean −0.02374
Std Dev 1.096

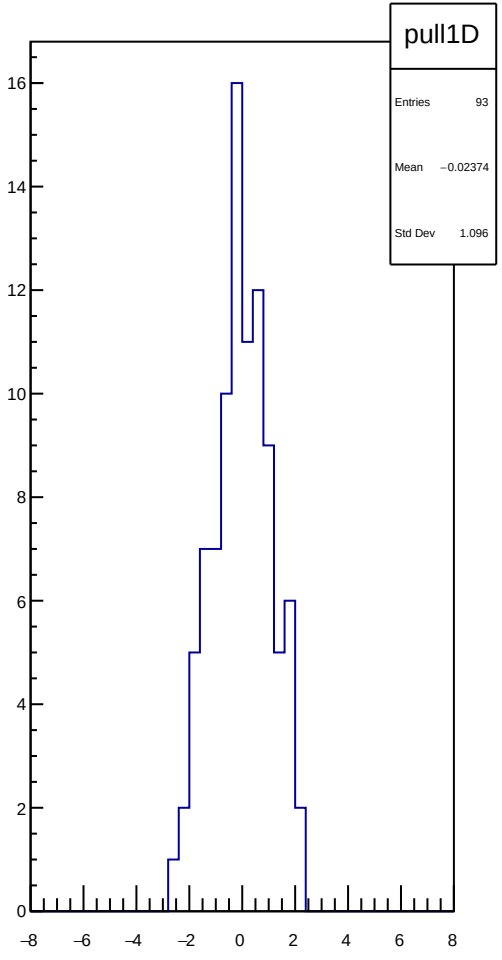

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1654 / 92
p0 2458 ± 1.816
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250

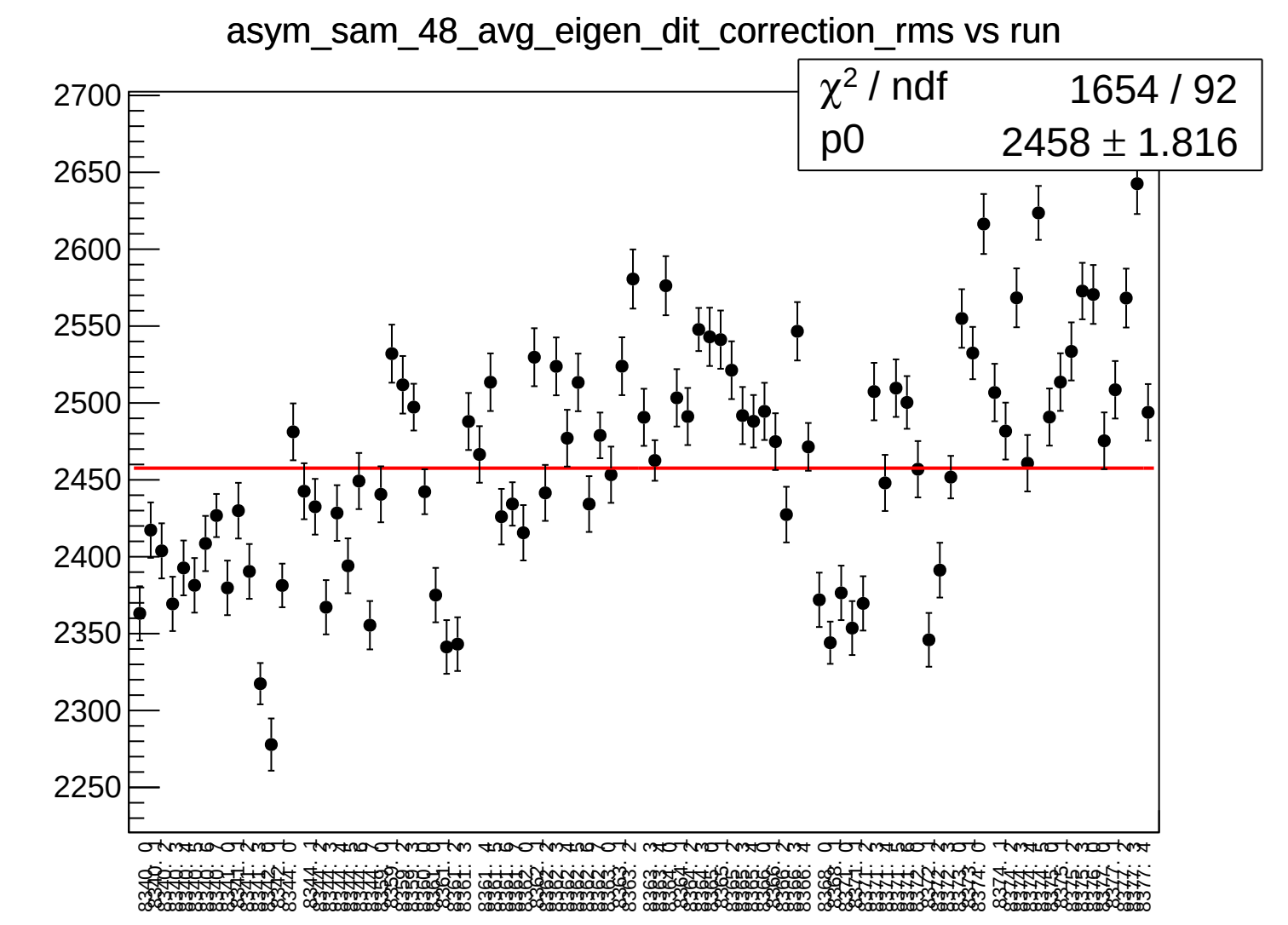

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.2 / 92
p0 −231.2 ± 194
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −79.74
Std Dev 0
2
1
0
−1
−2

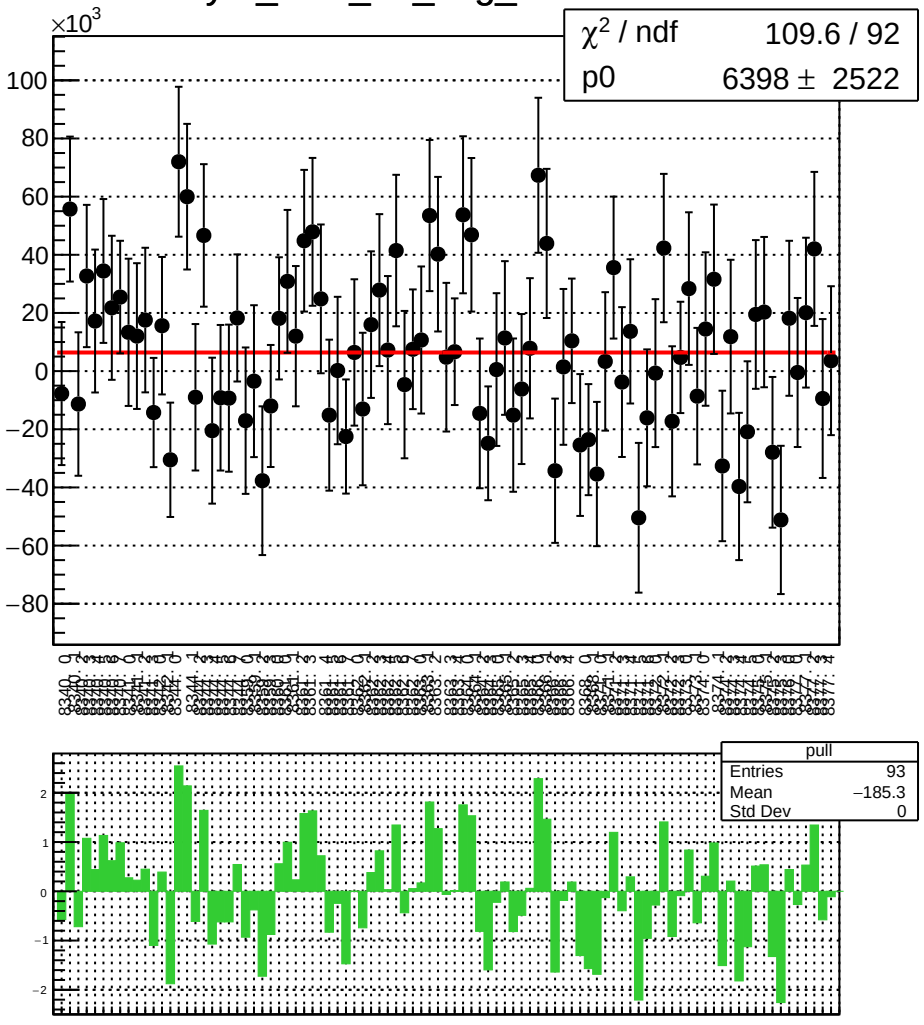

pull1D
Entries 93
Mean −0.01361
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

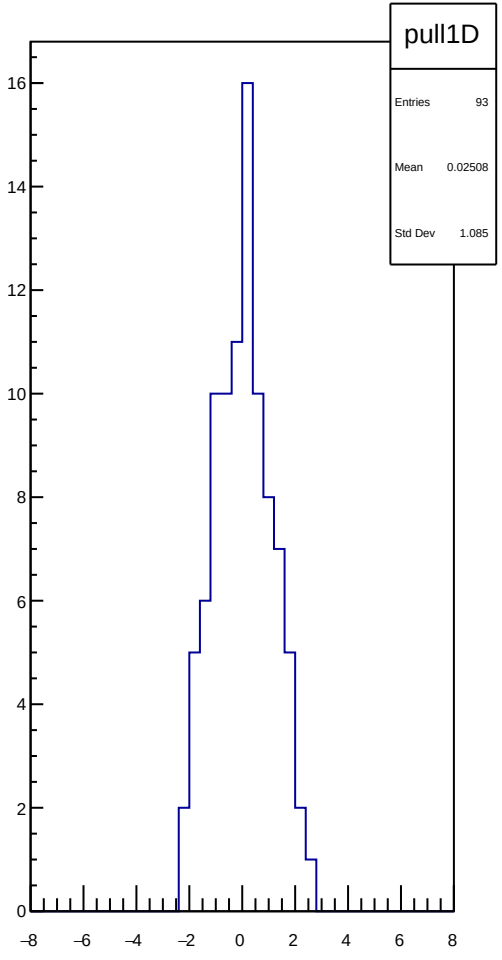

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.047e+04 / 92
p0 185.3 ± 0.1372
350
300
250
200
150

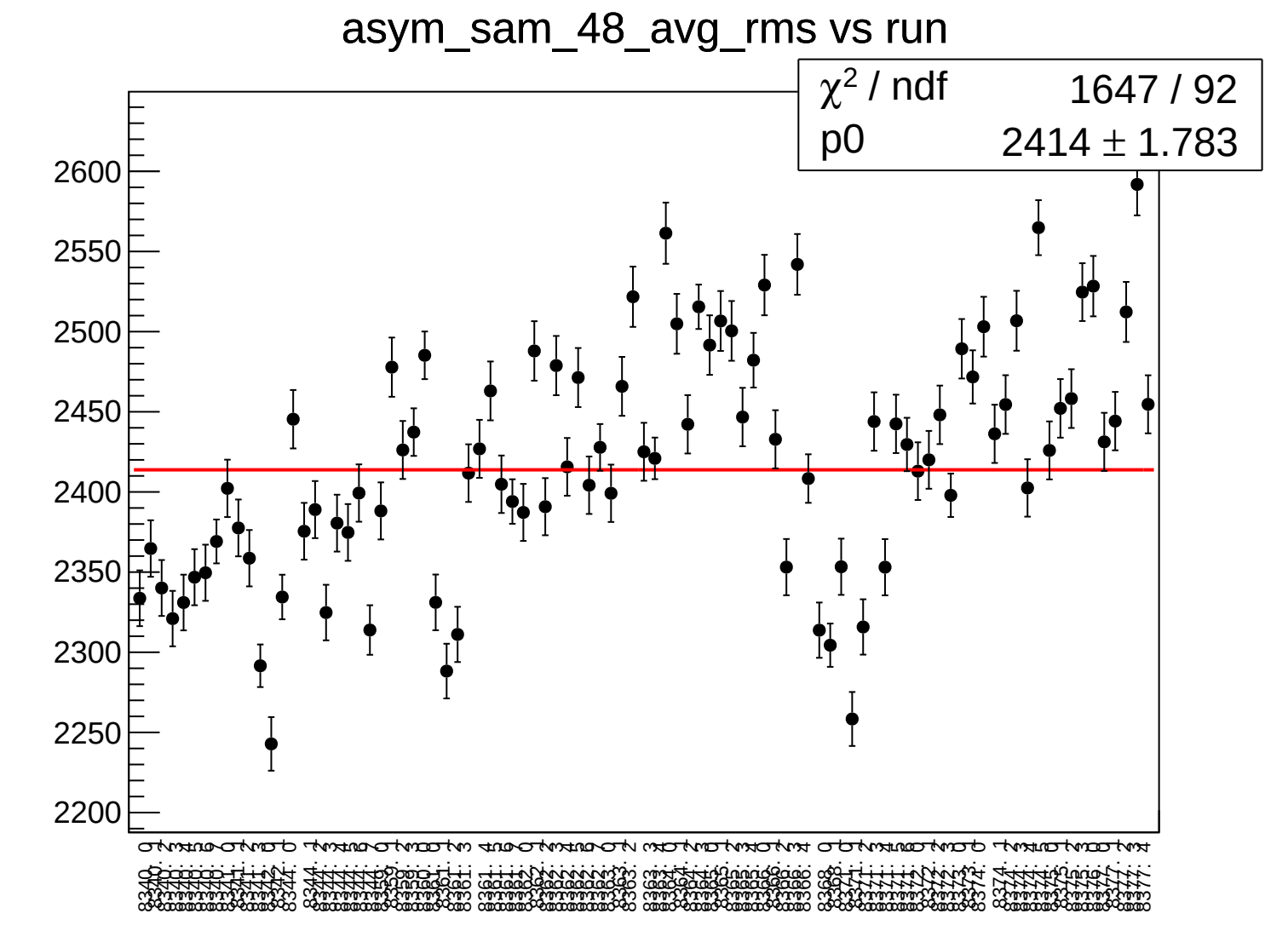

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.8 / 92
p0 −6732 ± 2568
pull
Entries 93
Mean −199.4
Std Dev 0

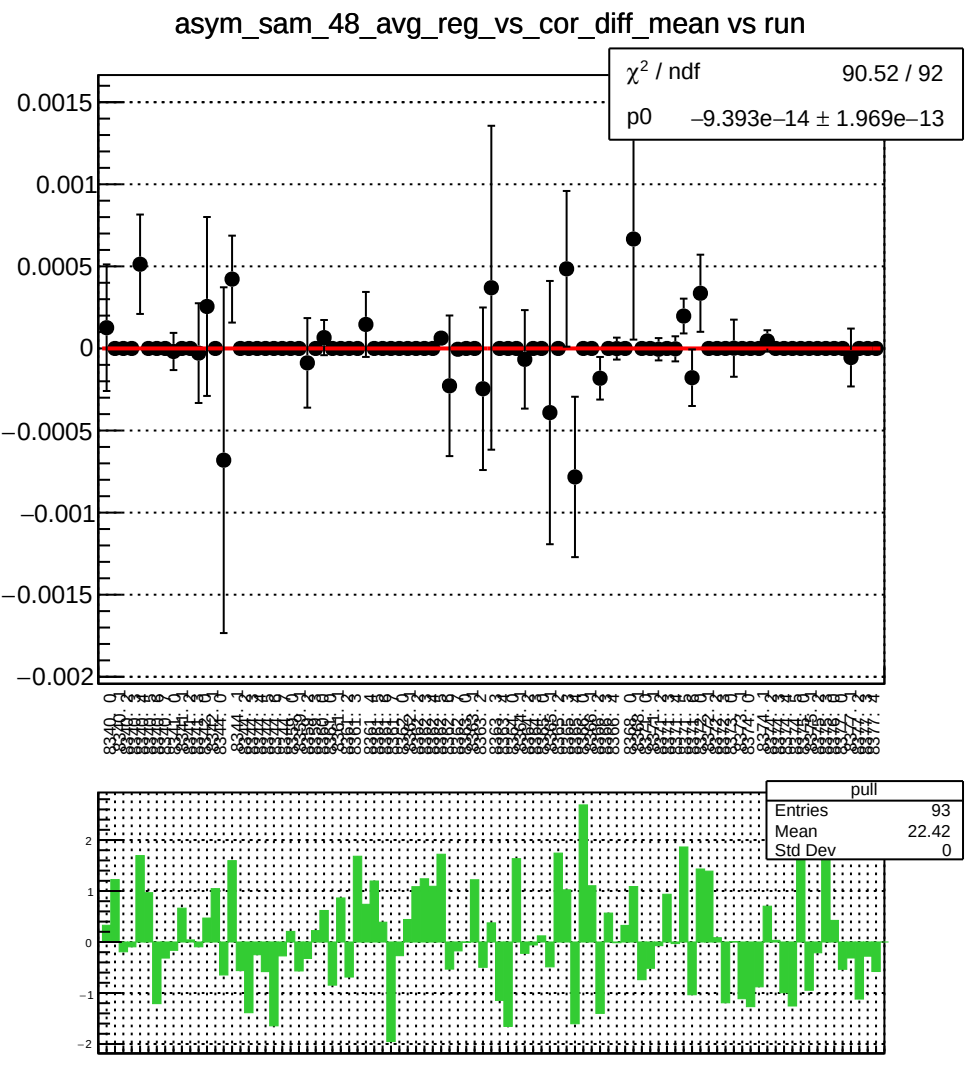

pull1D
Entries 93
Mean −0.02374
Std Dev 1.096

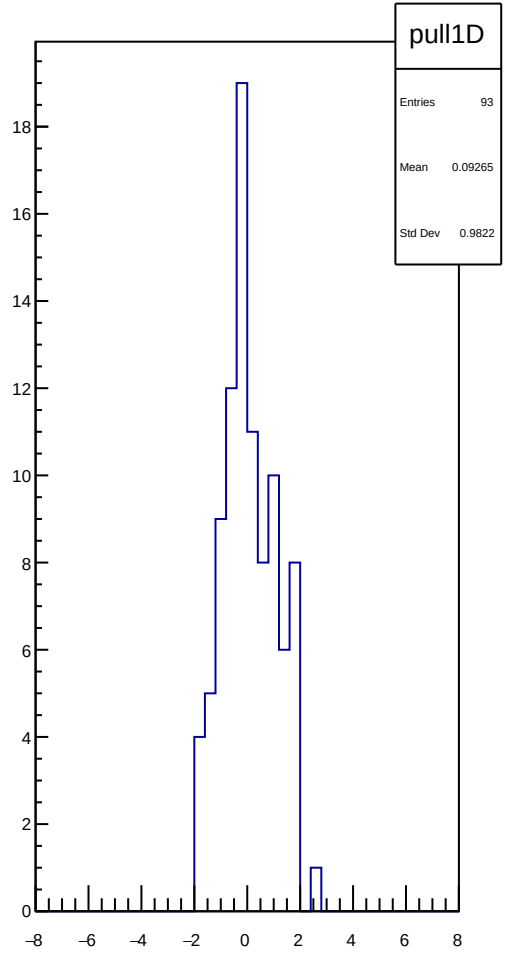

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1654 / 92
p0 2458 ± 1.816
2700
2650
2600
2550
2500
2450
2400
2350
2300
2250

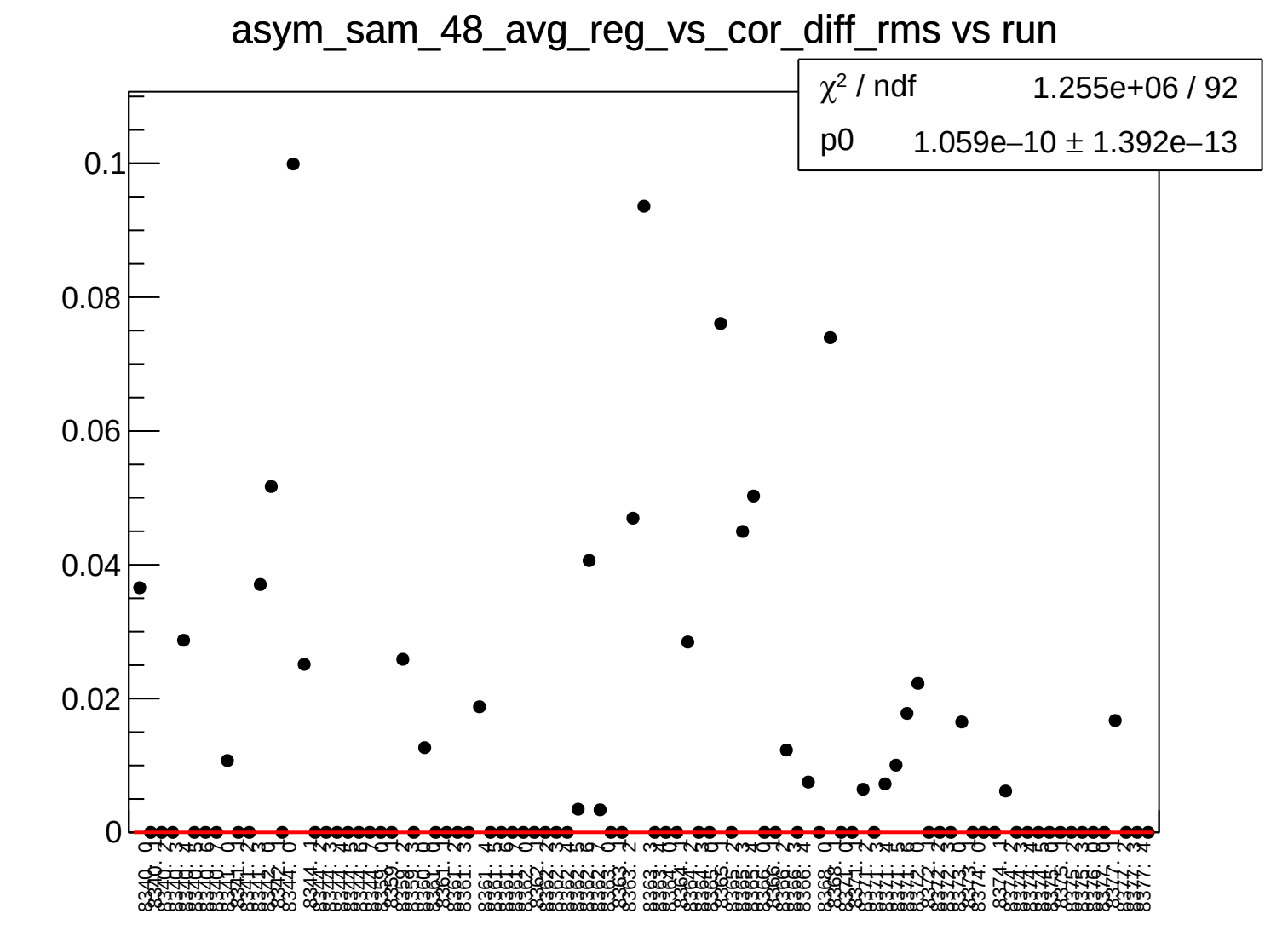

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 109.6 / 92
p0 6398 ± 2522
pull
Entries 93
Mean −185.3
Std Dev 0

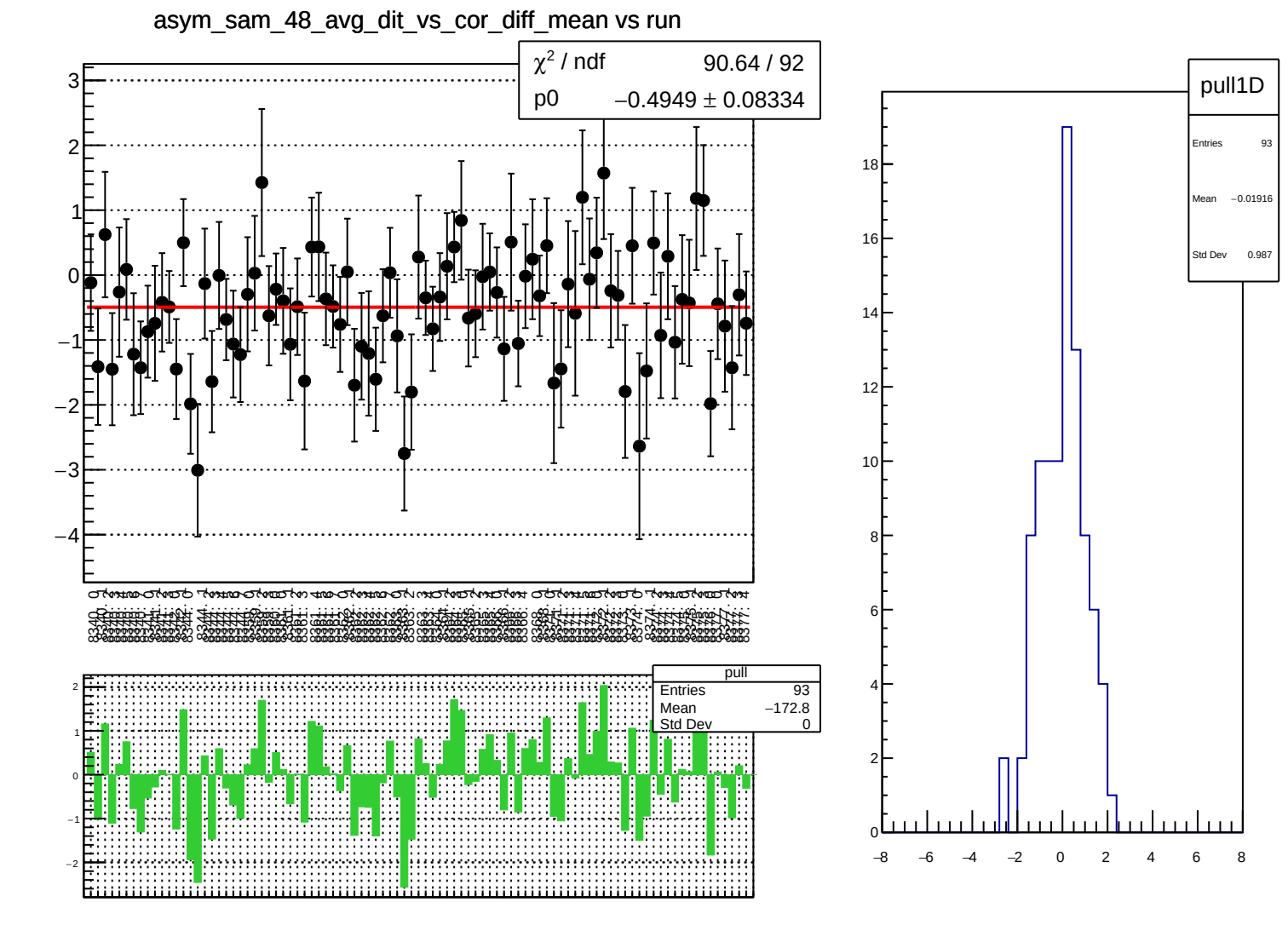

pull1D
Entries 93
Mean 0.02508
Std Dev 1.085

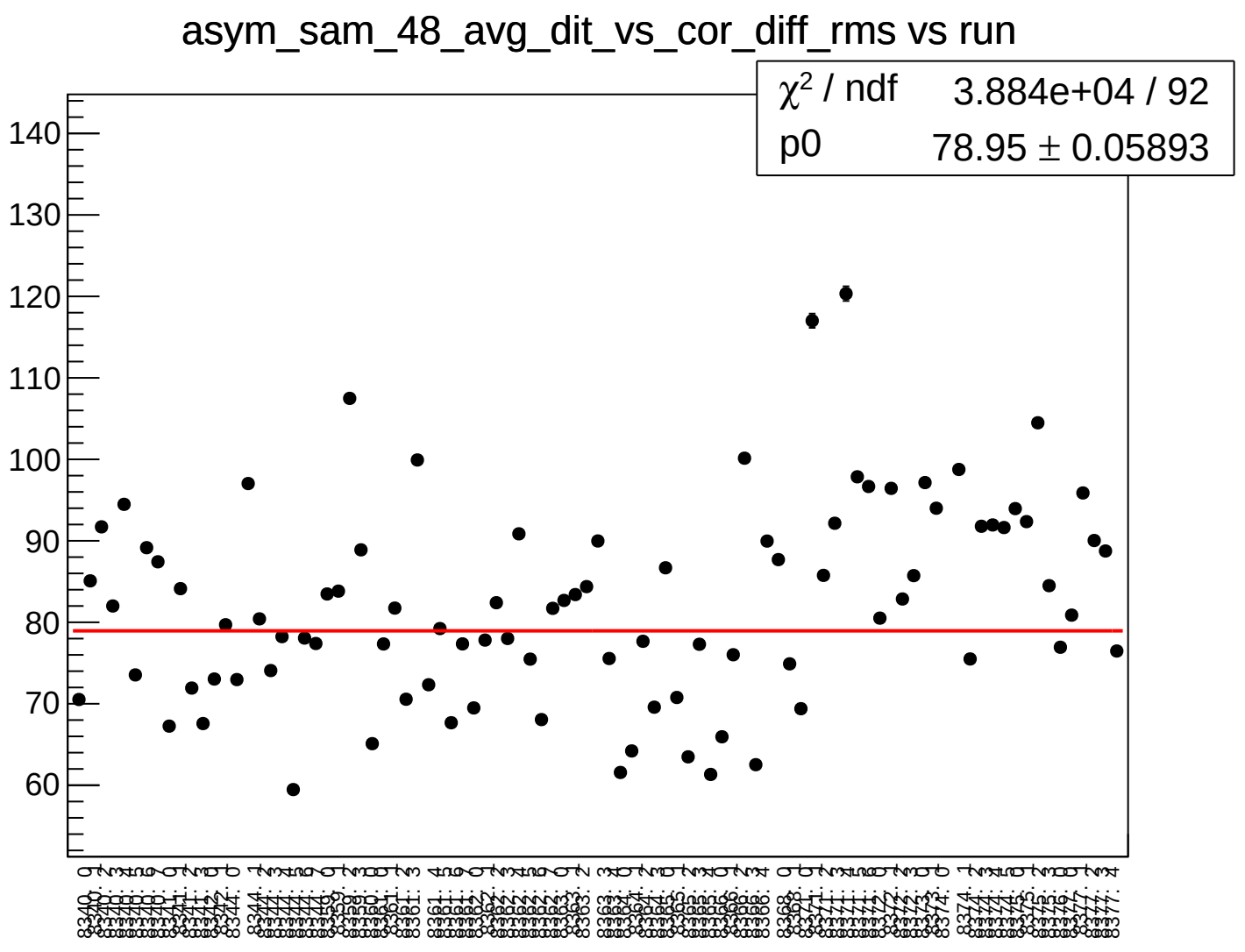

asym_sam_48_avg_rms vs run
χ² / ndf 1647 / 92
p0 2414 ± 1.783
2600
2550
2500
2450
2400
2350
2300
2250
2200

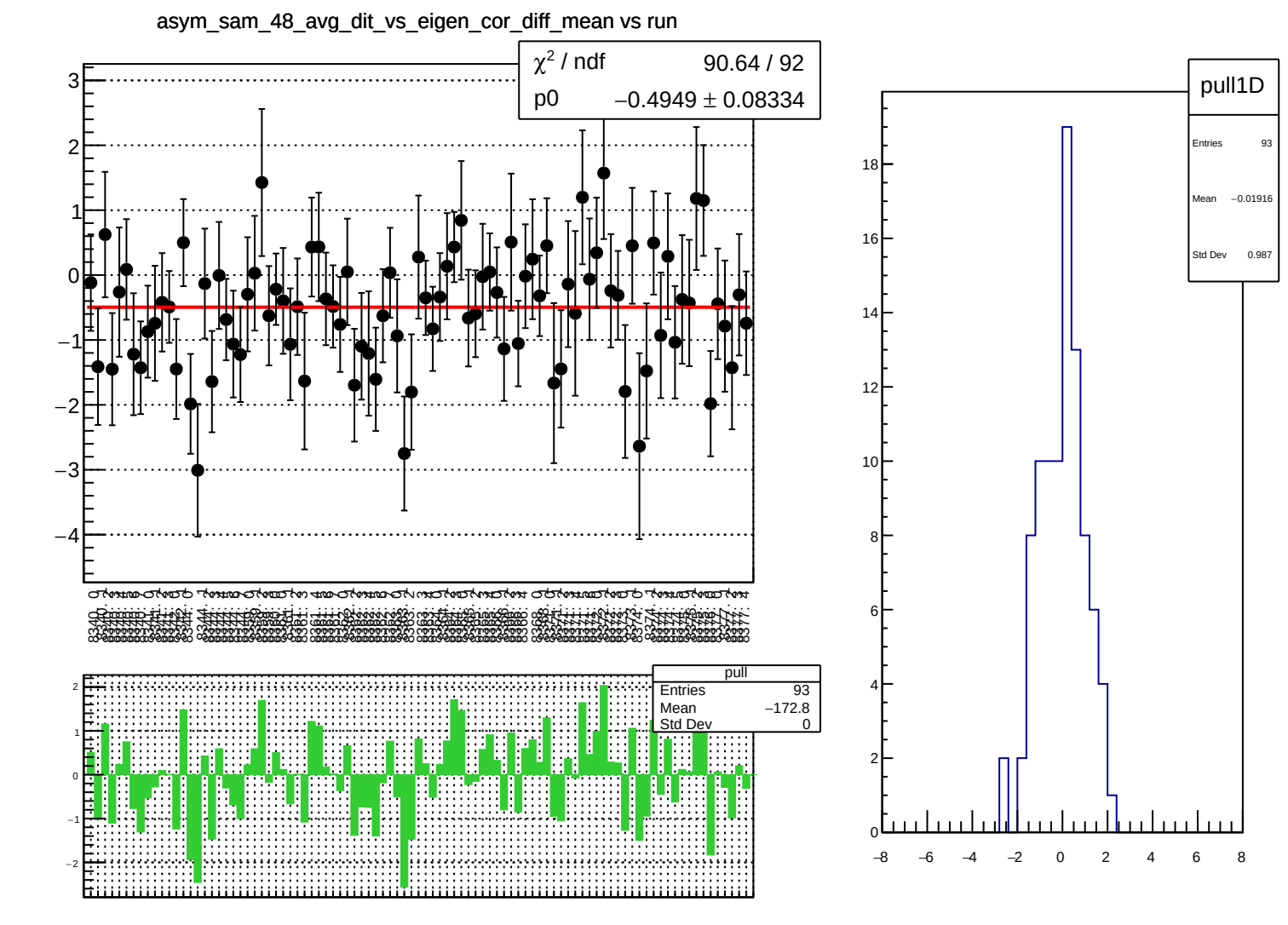

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.52 / 92
p0 −9.393e−14 ± 1.969e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 93
Mean 22.42
Std Dev 0
2
1
0
−1
−2

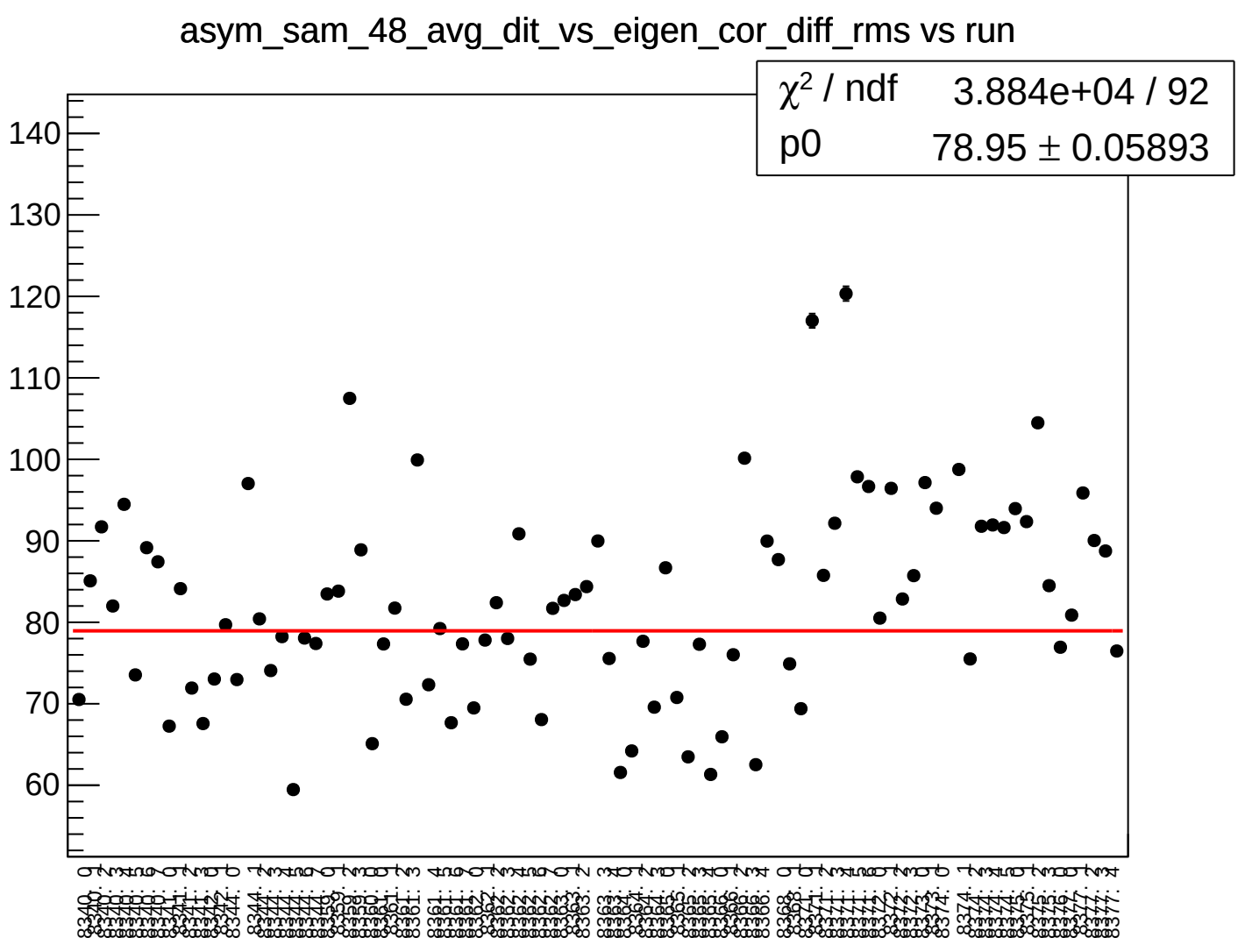

pull1D
Entries 93
Mean 0.09265
Std Dev 0.9822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

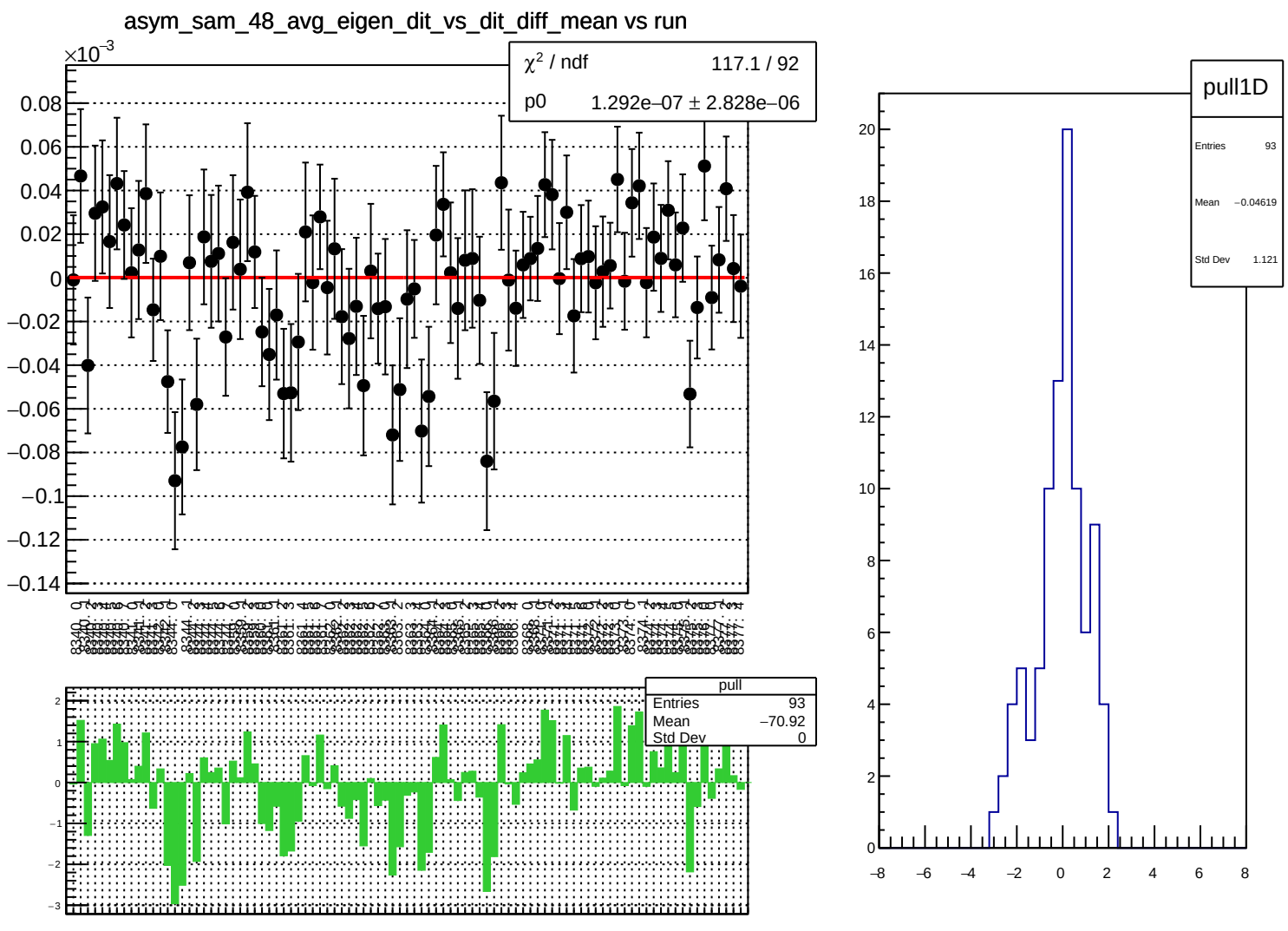

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 92
p0 1.059e−10 ± 1.392e−13
0.1
0.08
0.06
0.04
0.02
0

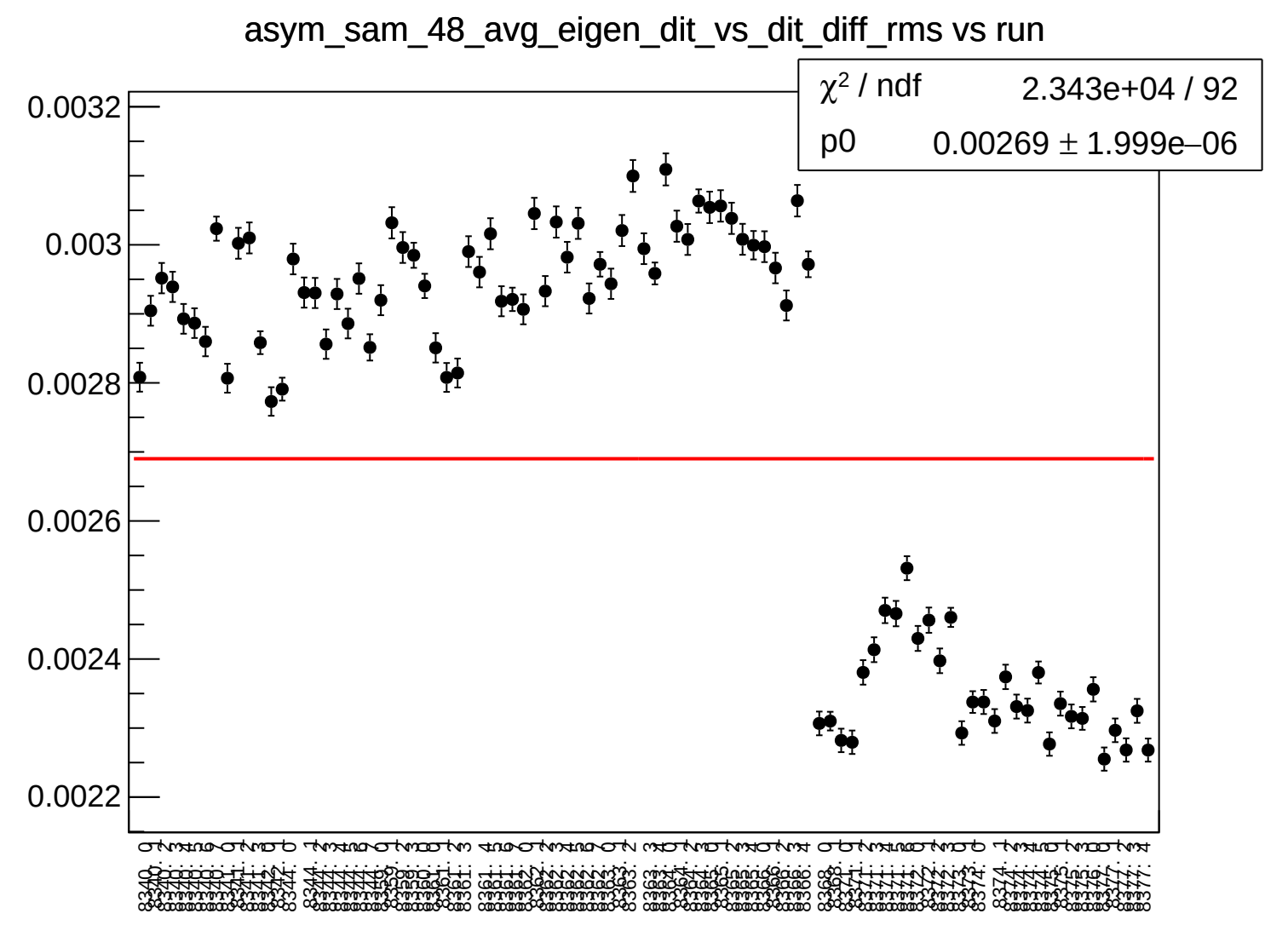

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.64 / 92
p0 −0.4949 ± 0.08334
pull
Entries 93
Mean −172.8
Std Dev 0
pull1D
Entries 93
Mean −0.01916
Std Dev 0.987

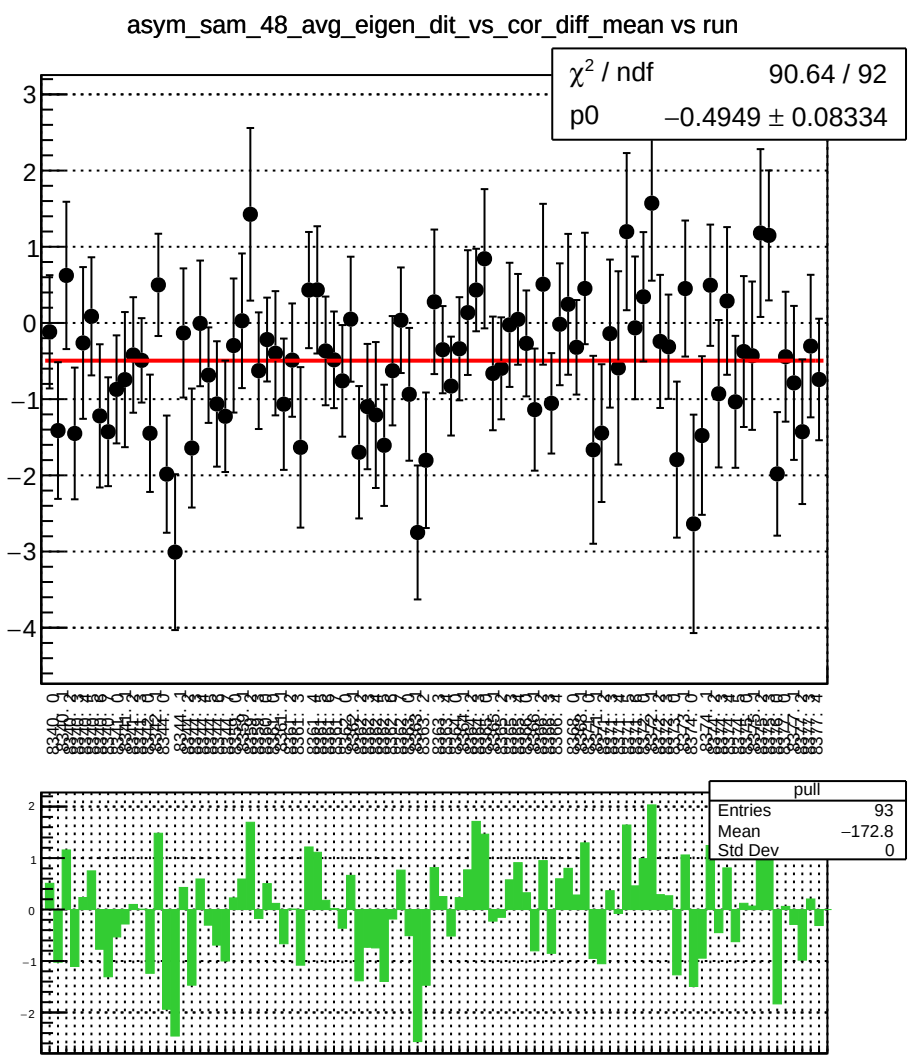

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.884e+04 / 92
p0 78.95 ± 0.05893
140
130
120
110
100
90
80
70
60

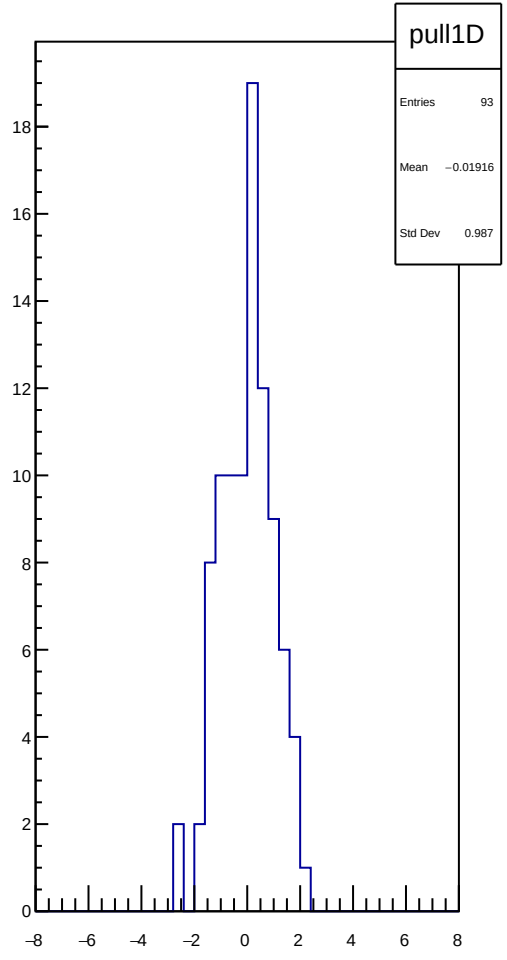

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.64 / 92
p0 −0.4949 ± 0.08334
pull
Entries 93
Mean −172.8
Std Dev 0
pull1D
Entries 93
Mean −0.01916
Std Dev 0.987

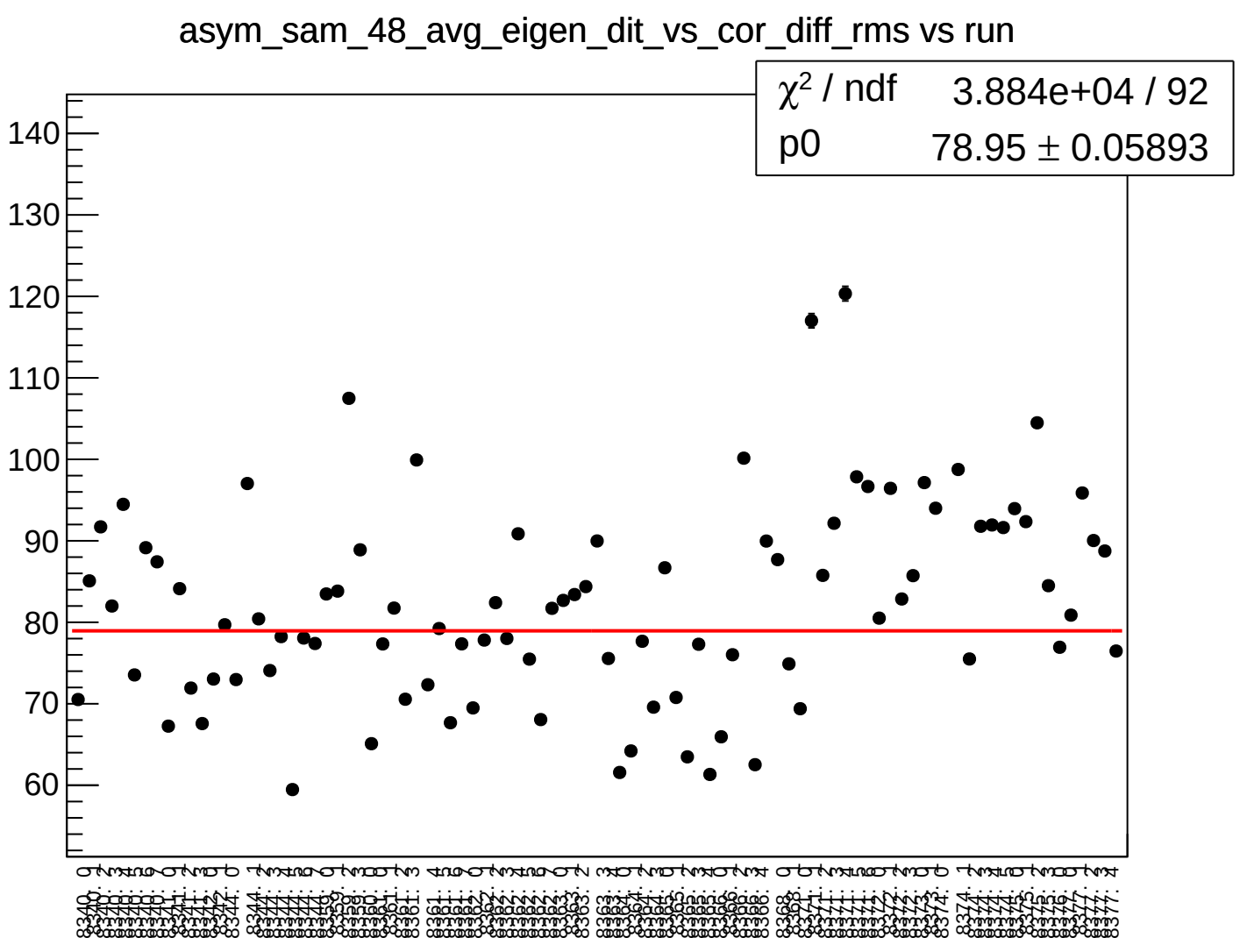

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.884e+04 / 92
p0 78.95 ± 0.05893
140
130
120
110
100
90
80
70
60

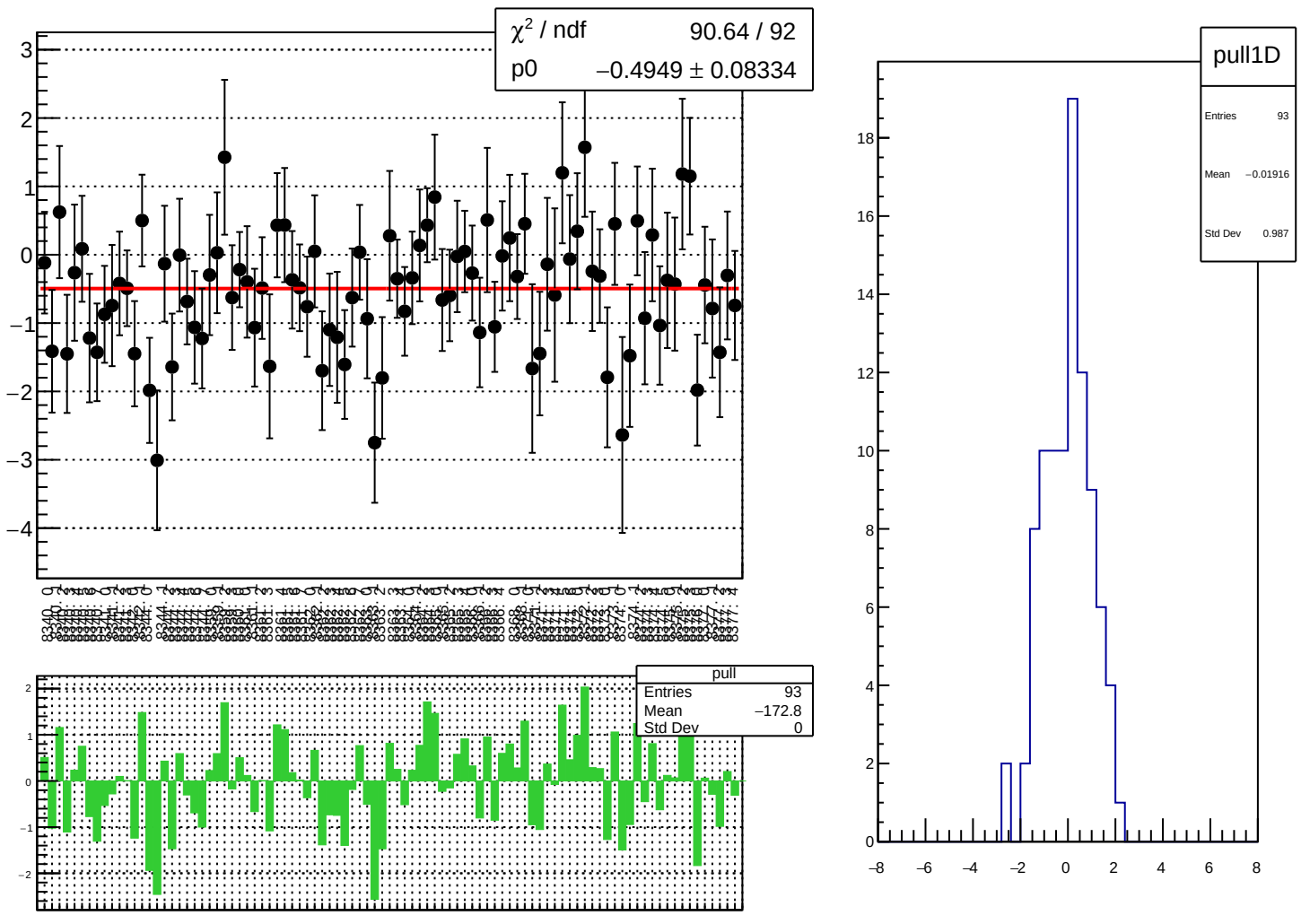

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.1 / 92
p0 1.292e−07 ± 2.828e−06
pull
Entries 93
Mean −70.92
Std Dev 0
pull1D
Entries 93
Mean −0.04619
Std Dev 1.121

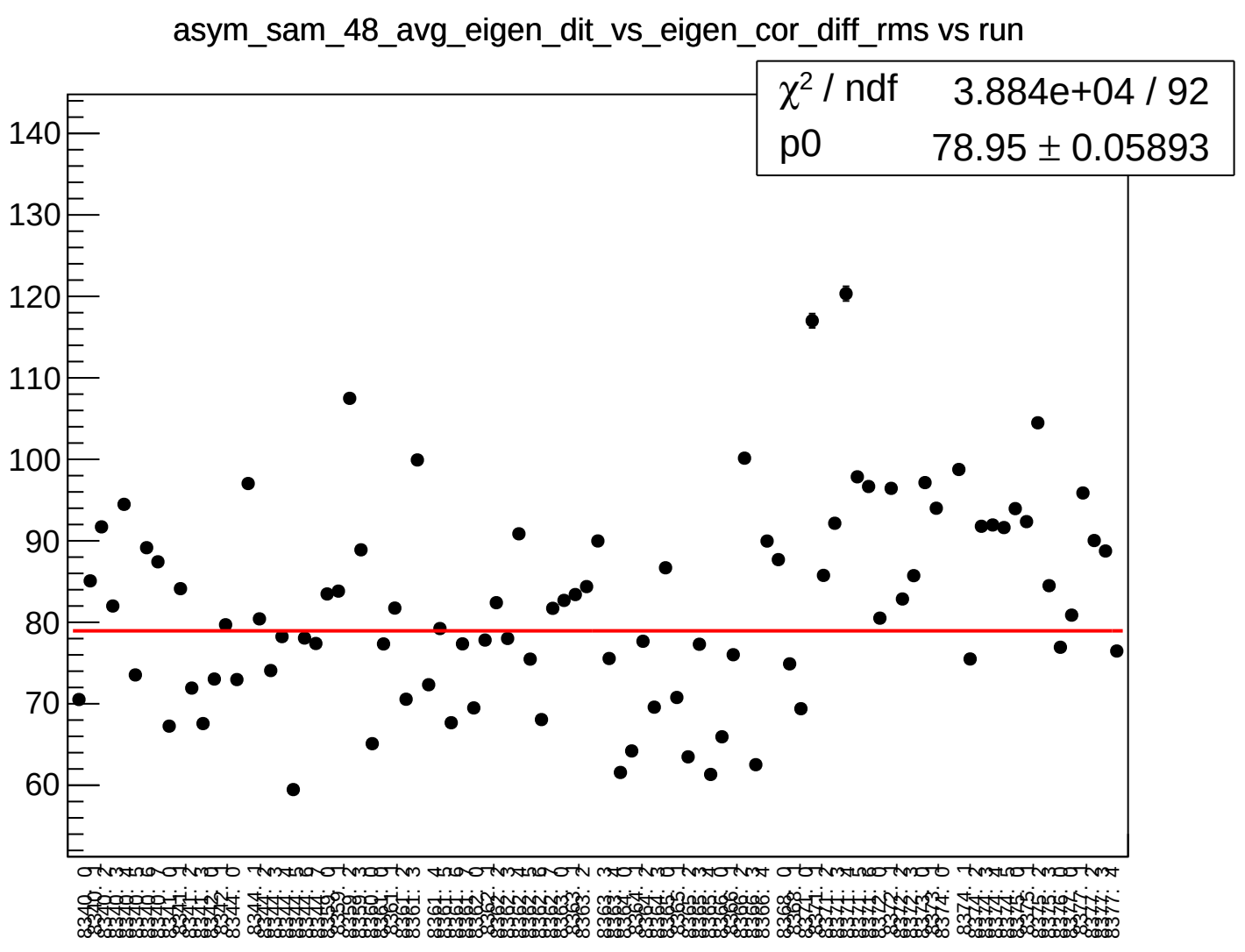

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.343e+04 / 92
p0 0.00269 ± 1.999e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

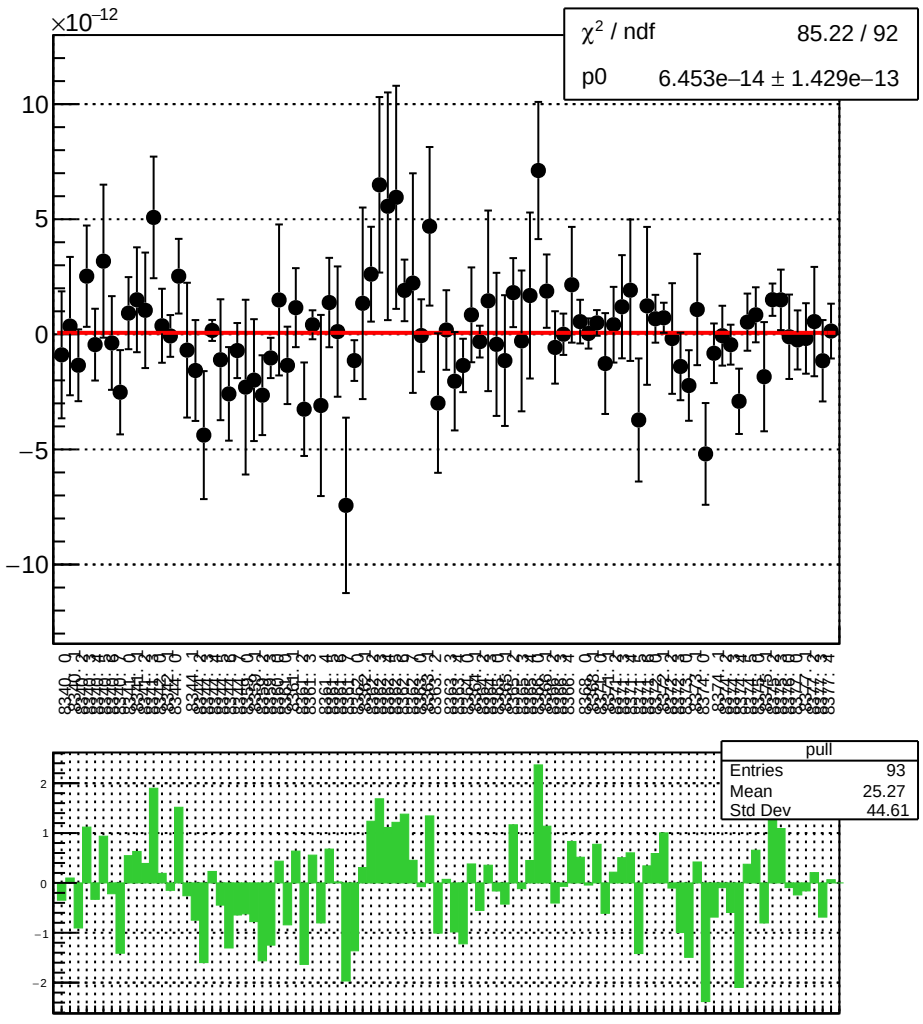

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.64 / 92
p0 −0.4949 ± 0.08334
pull
Entries 93
Mean −172.8
Std Dev 0

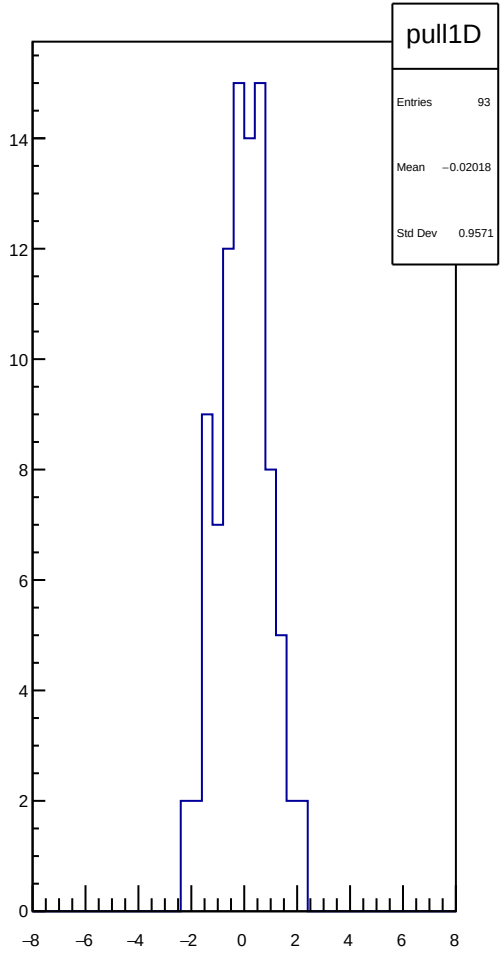

pull1D
Entries 93
Mean −0.01916
Std Dev 0.987

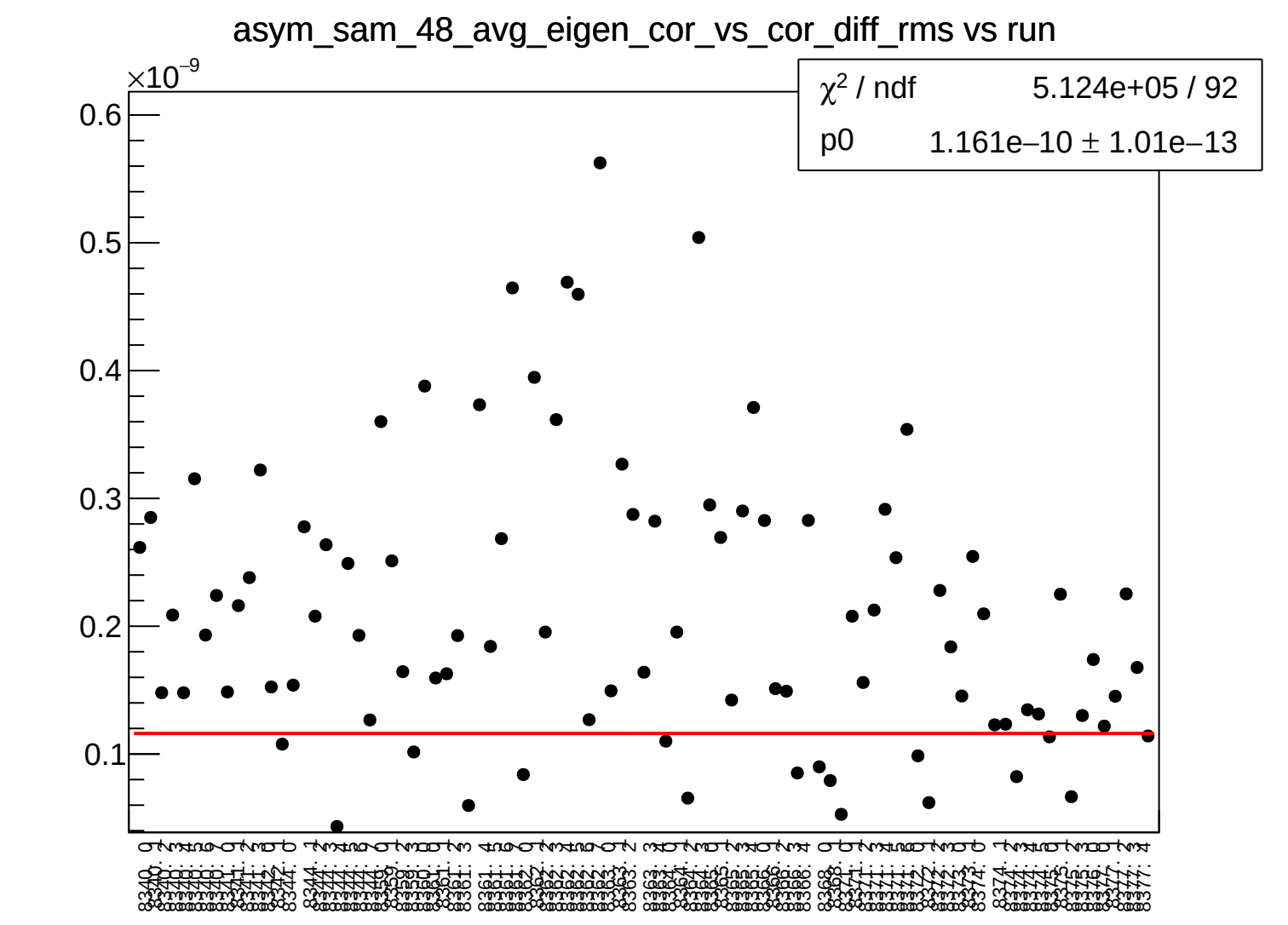

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.884e+04 / 92
p0 78.95 ± 0.05893
140
130
120
110
100
90
80
70
60

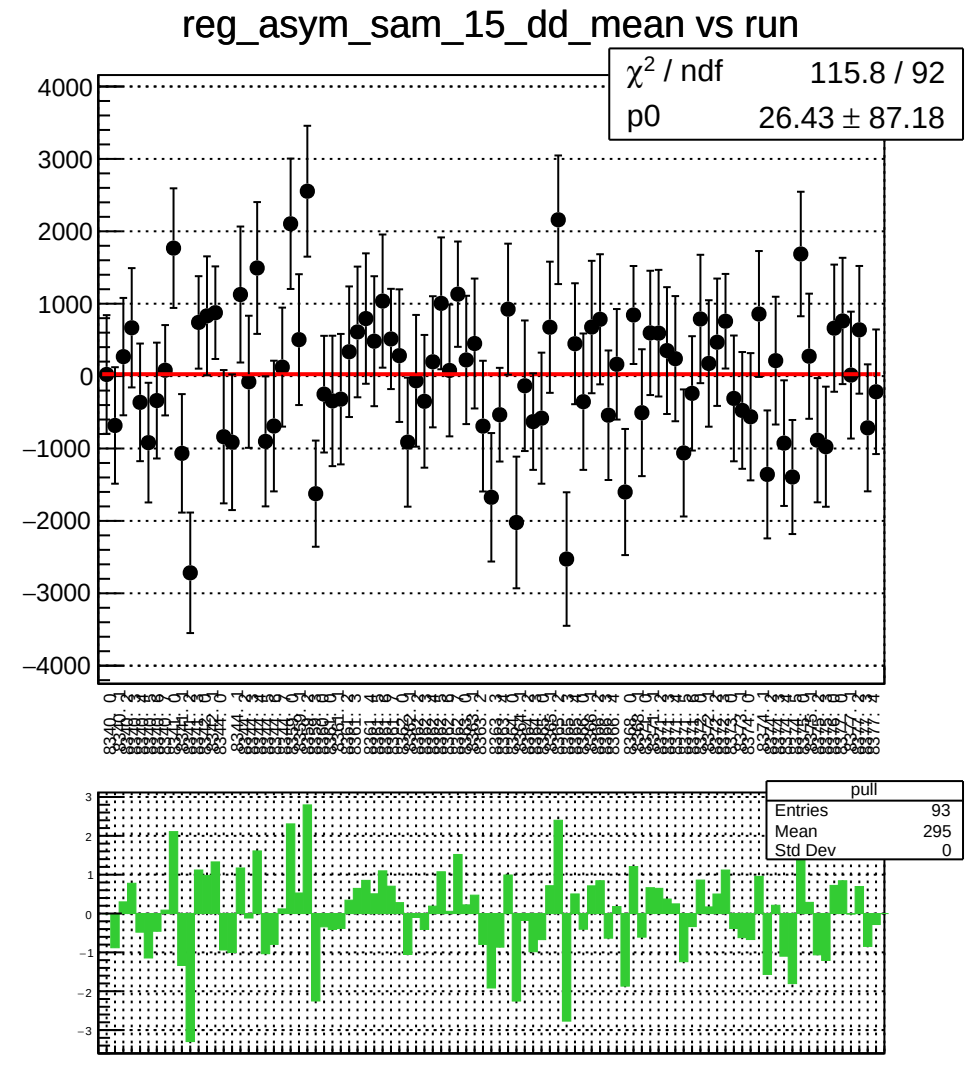

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.64 / 92
p0 −0.4949 ± 0.08334
pull
Entries 93
Mean −172.8
Std Dev 0
pull1D
Entries 93
Mean −0.01916
Std Dev 0.987

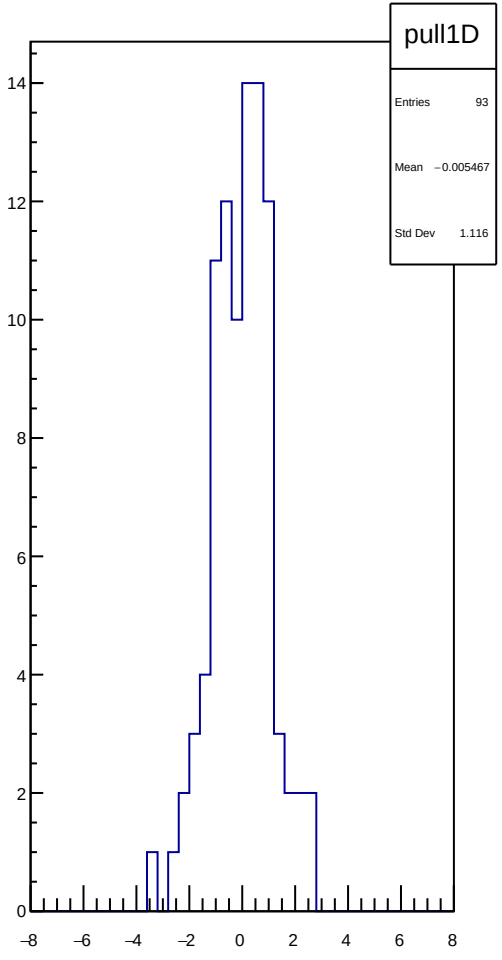

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.884e+04 / 92
p0 78.95 ± 0.05893
140
130
120
110
100
90
80
70
60

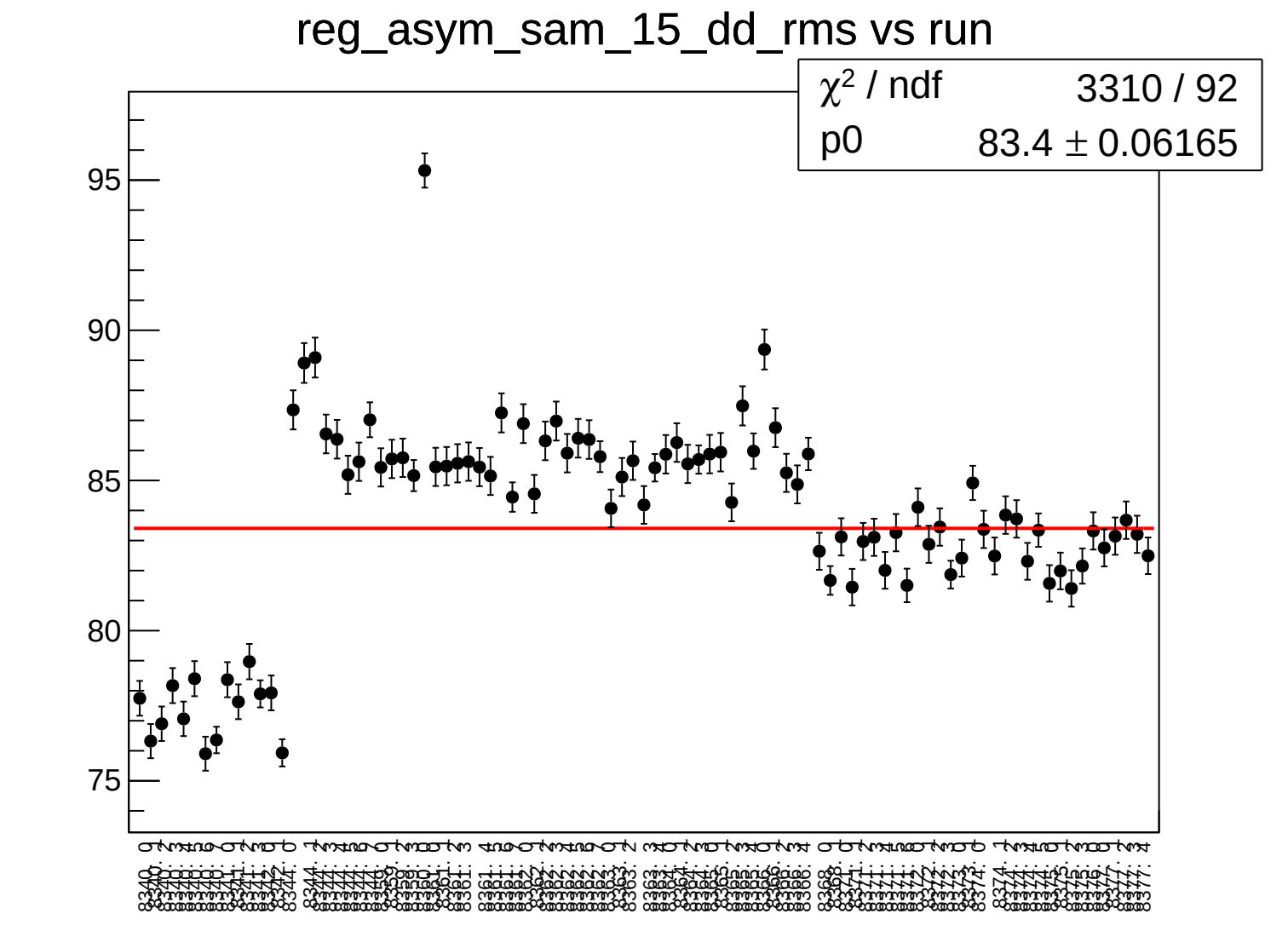

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.22 / 92
p0 6.453e−14 ± 1.429e−13
pull
Entries 93
Mean 25.27
Std Dev 44.61

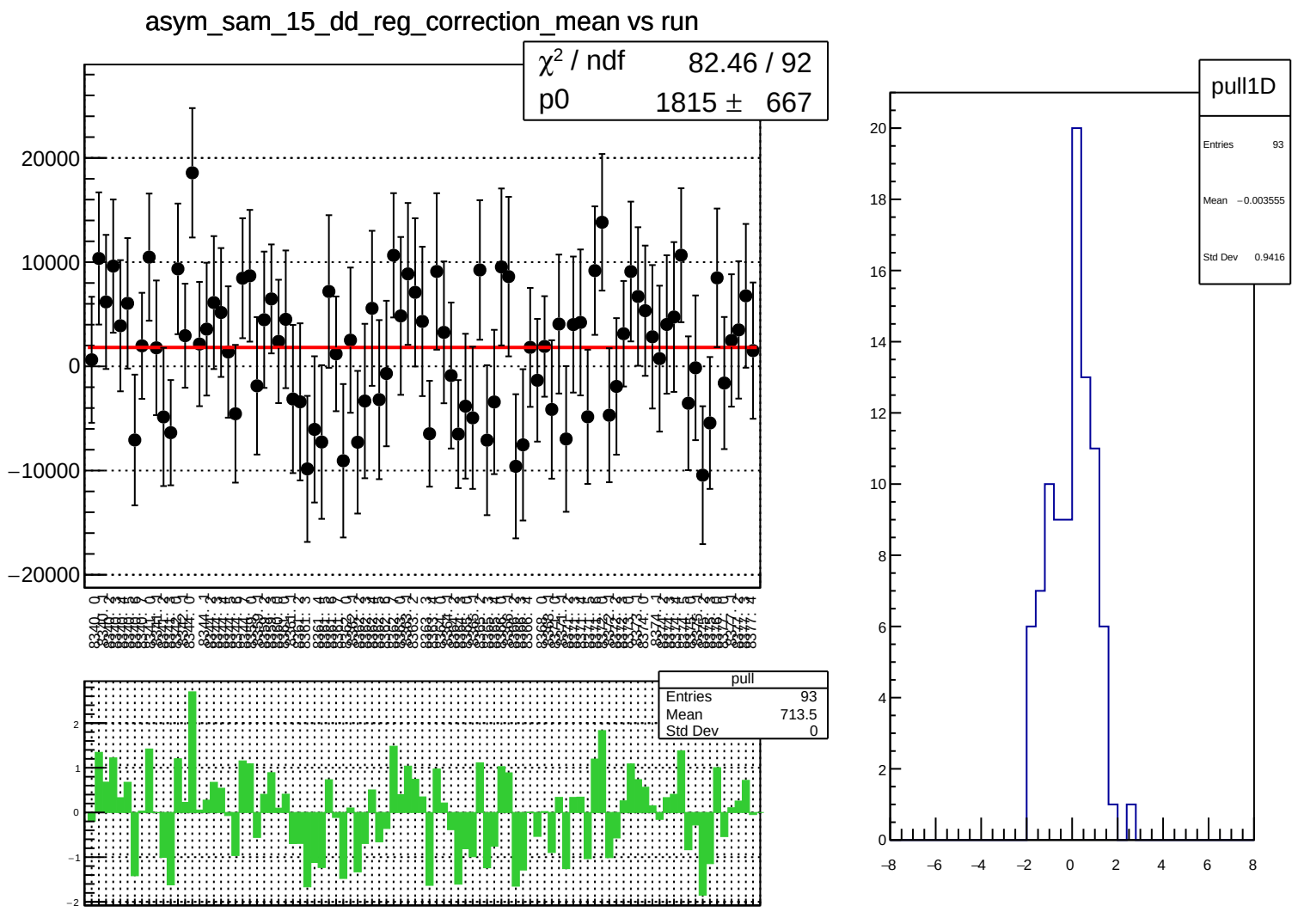

pull1D
Entries 93
Mean −0.02018
Std Dev 0.9571

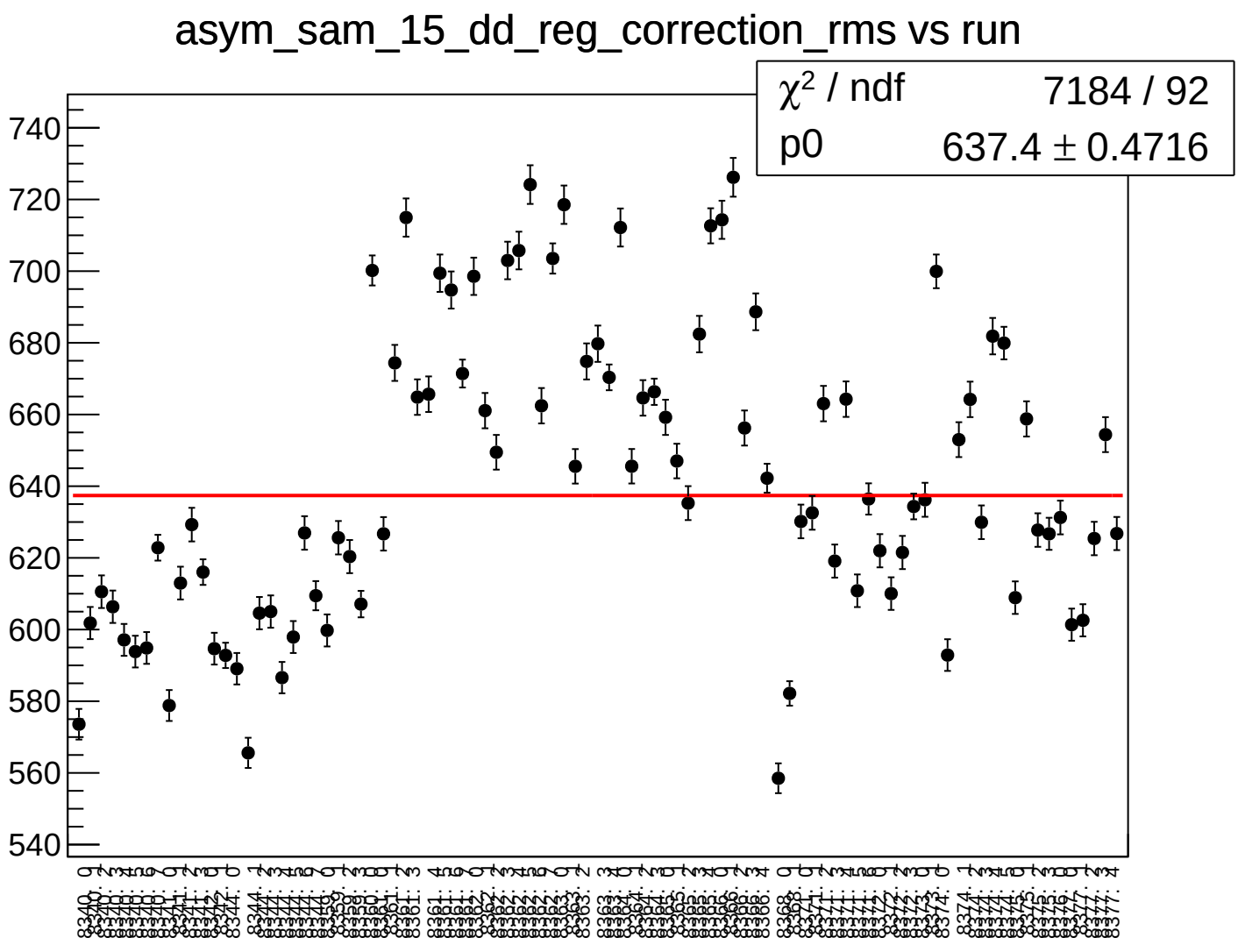

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.124e+05 / 92
p0 1.161e−10 ± 1.01e−13
0.6
0.5
0.4
0.3
0.2
0.1

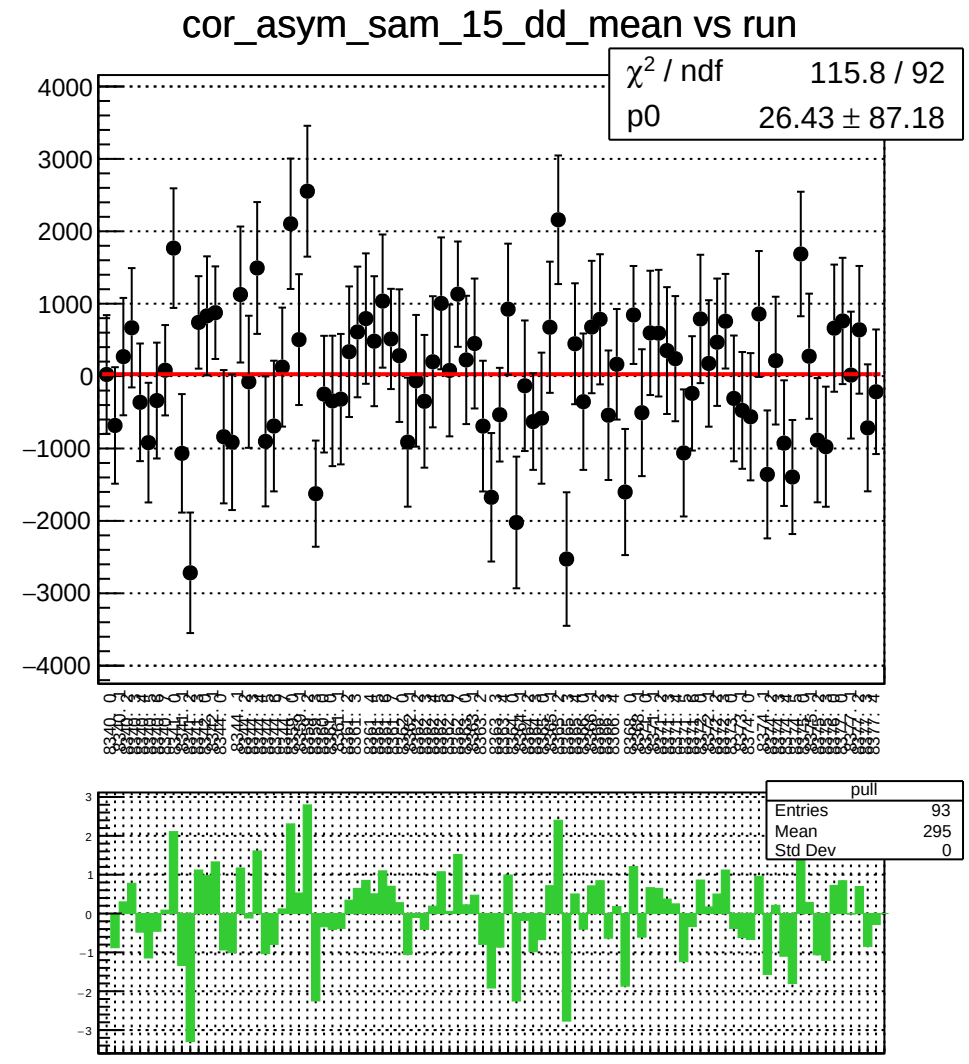

reg_asym_sam_15_dd_mean vs run
χ² / ndf 115.8 / 92
p0 26.43 ± 87.18
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 295
Std Dev 0
3
2
1
0
−1
−2
−3

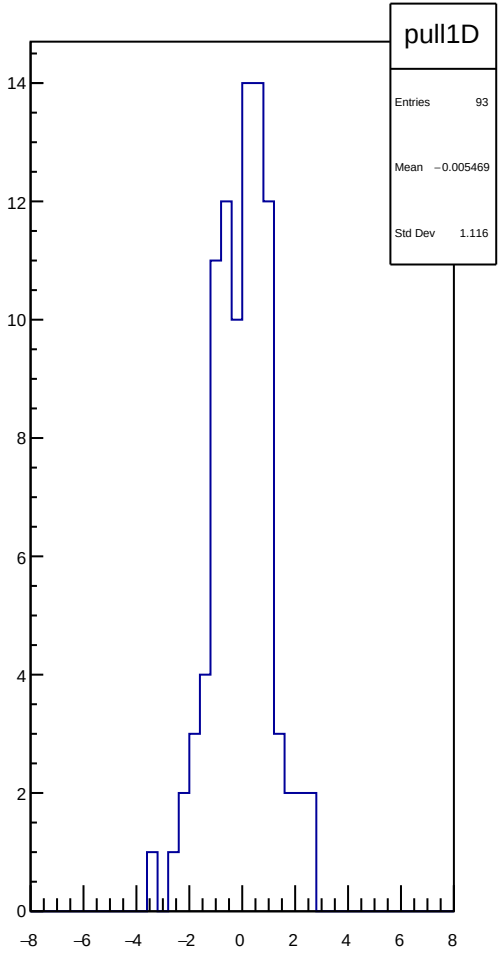

pull1D
Entries 93
Mean −0.005467
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

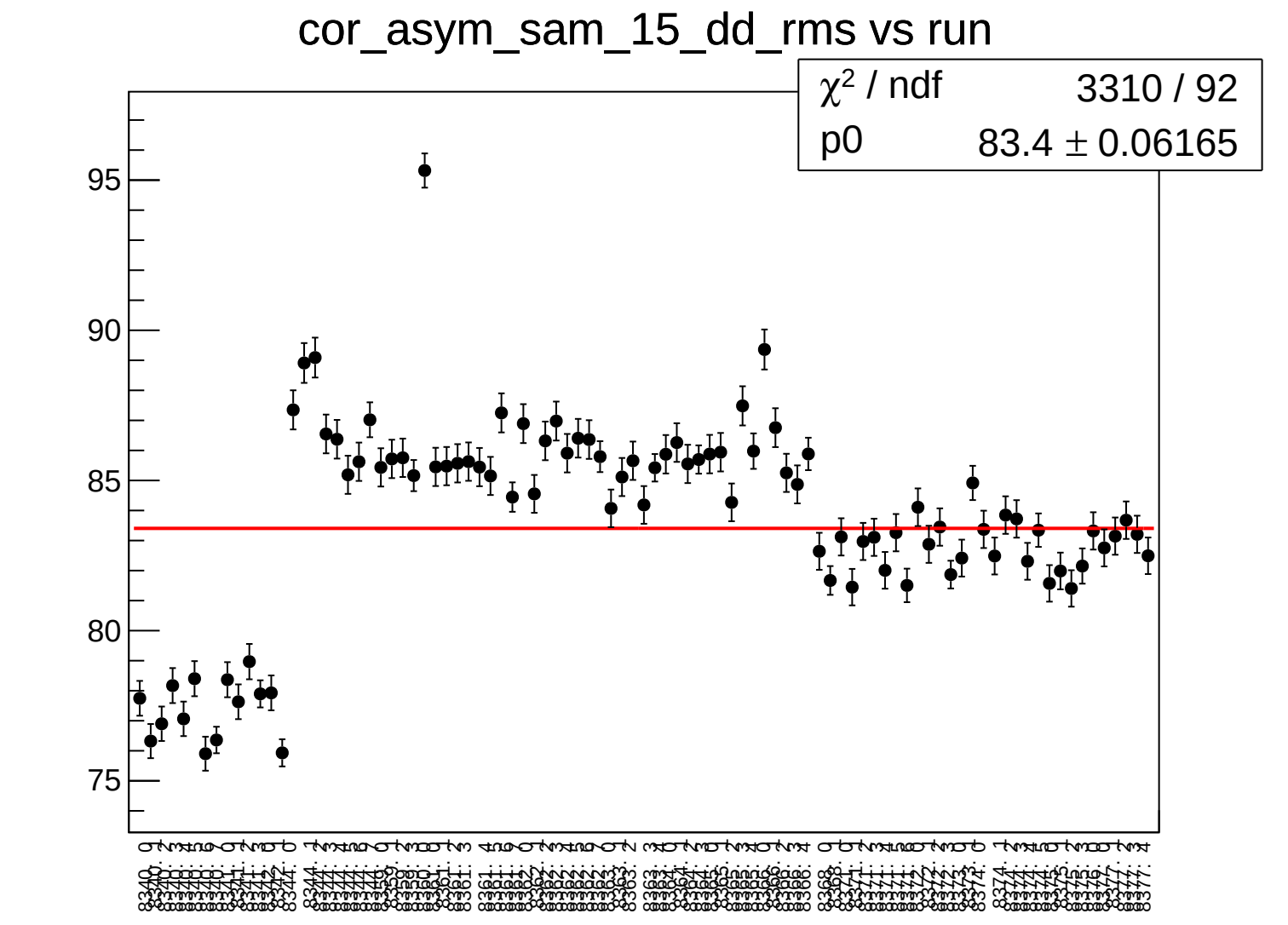

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3310 / 92
p0 83.4 ± 0.06165
95
90
85
80
75

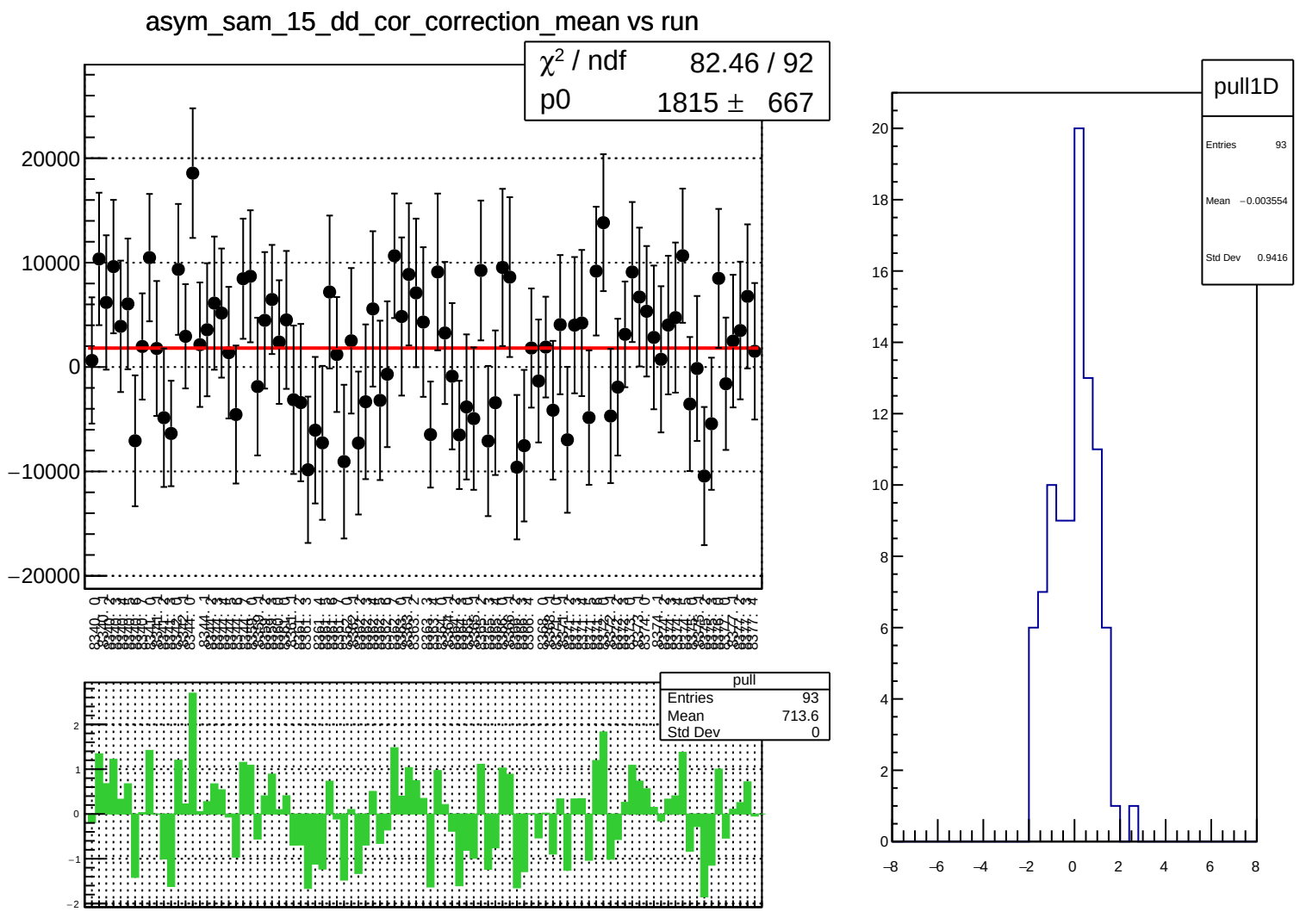

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 82.46 / 92
p0 1815 ± 667
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 713.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003555
Std Dev 0.9416
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

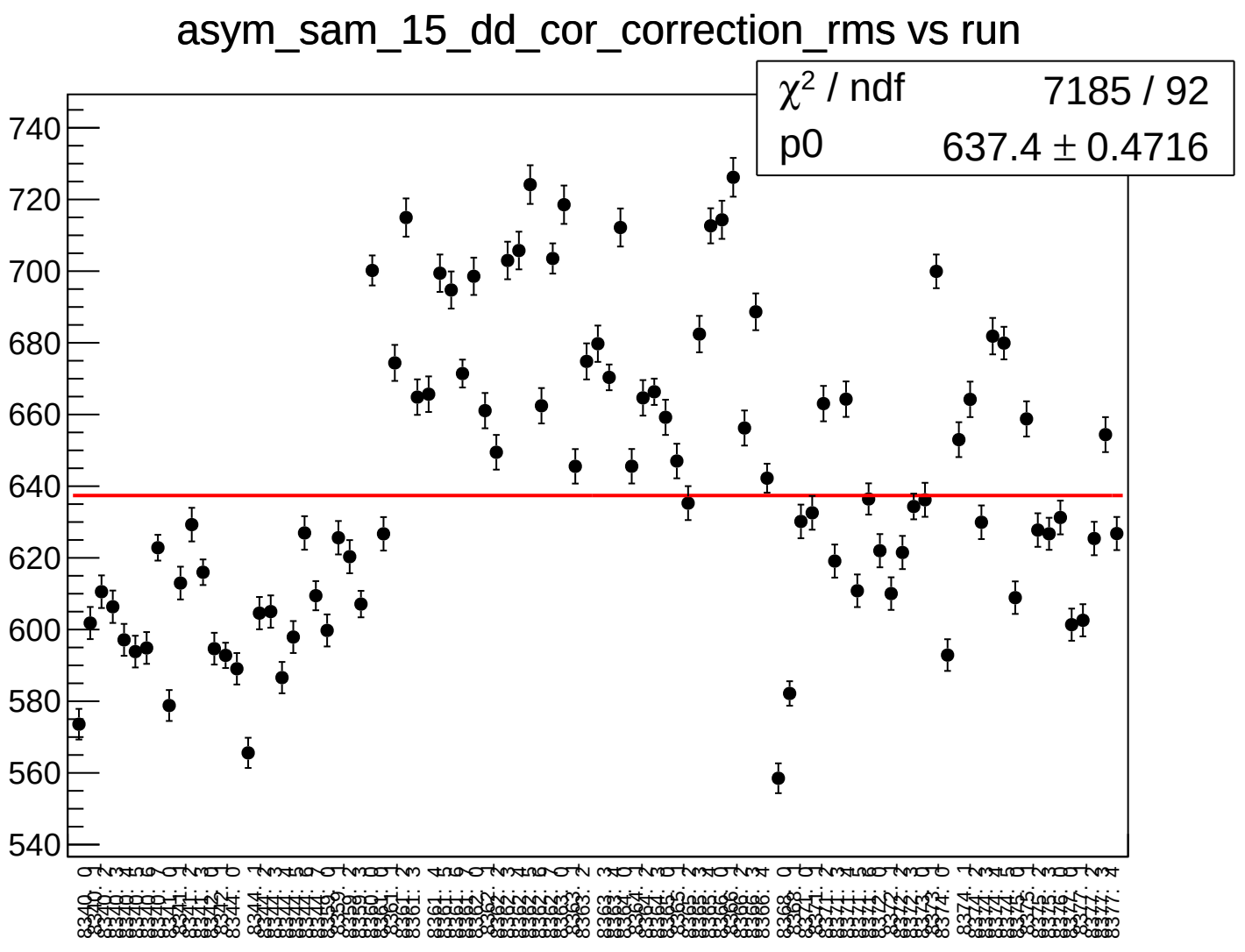

asym_sam_15_dd_reg_correction_rms vs run
χ^2 / ndf 7184 / 92
p0 637.4 ± 0.4716
740
720
700
680
660
640
620
600
580
560
540

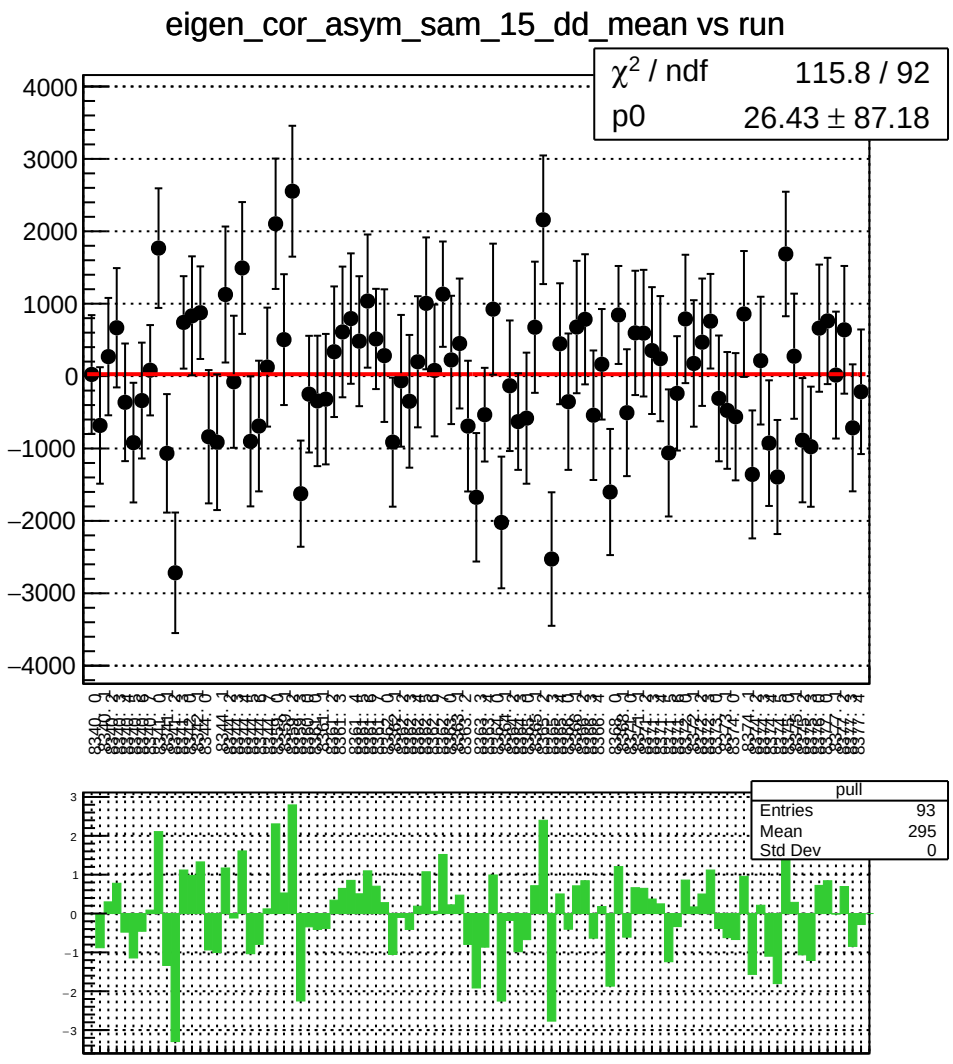

cor_asym_sam_15_dd_mean vs run
χ² / ndf 115.8 / 92
p0 26.43 ± 87.18
pull
Entries 93
Mean 295
Std Dev 0

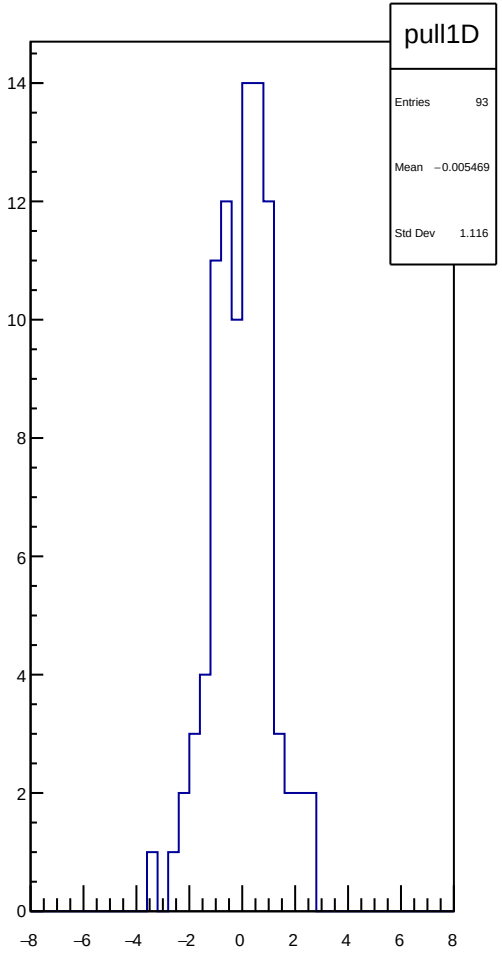

pull1D
Entries 93
Mean −0.005469
Std Dev 1.116

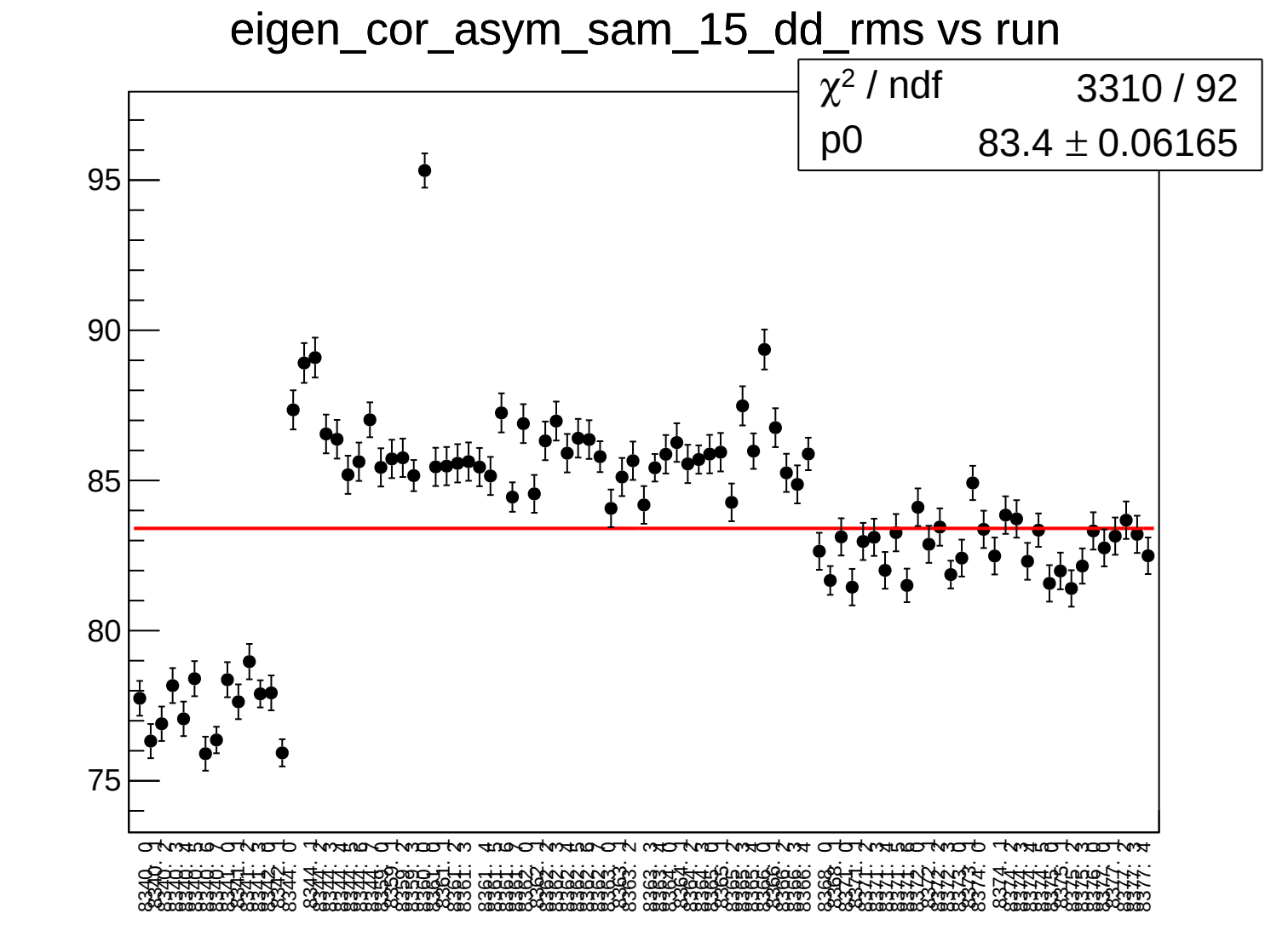

cor_asym_sam_15_dd_rms vs run
χ² / ndf 3310 / 92
p0 83.4 ± 0.06165
95
90
85
80
75

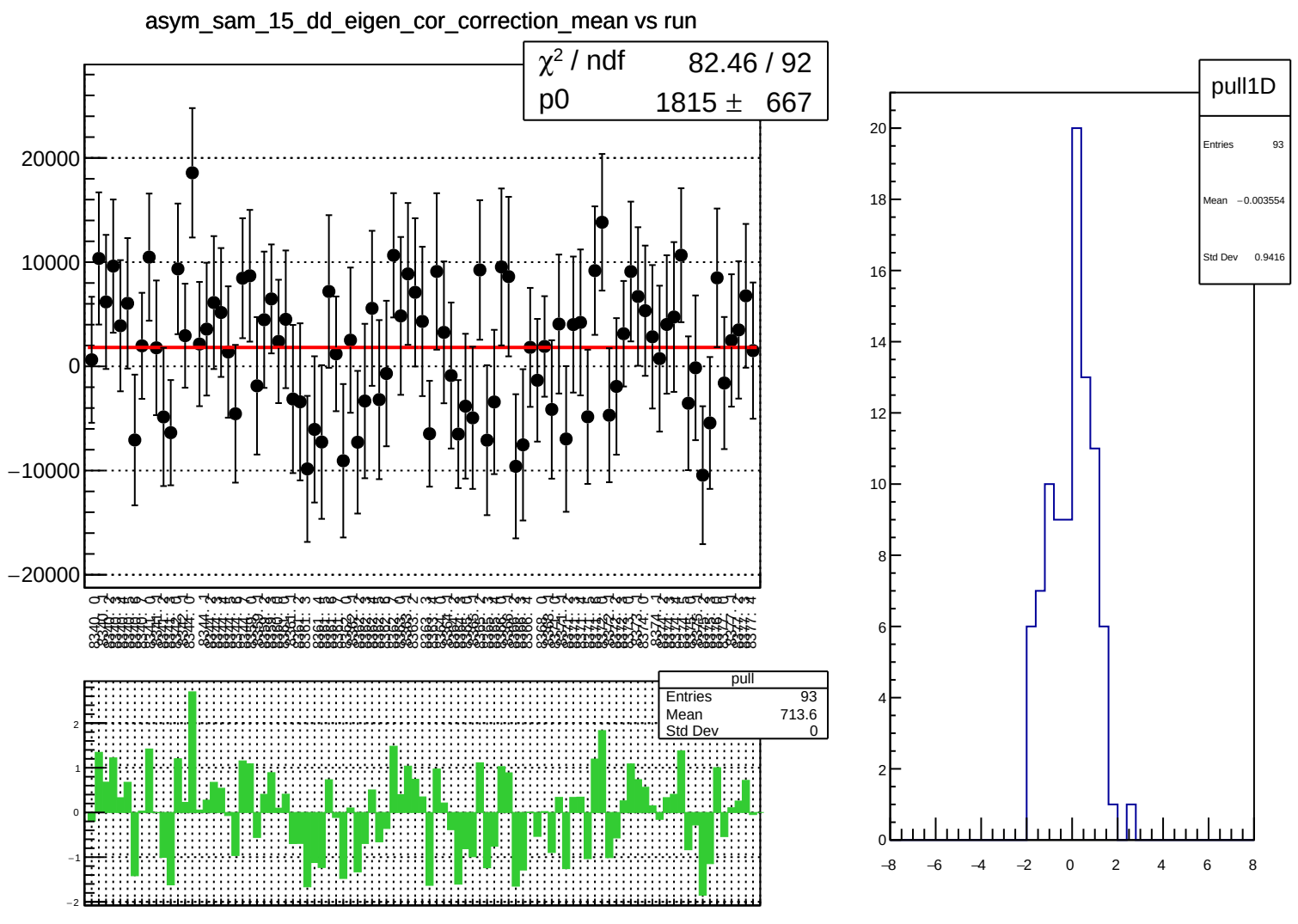

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 82.46 / 92
p0 1815 ± 667
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 713.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003554
Std Dev 0.9416
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 7185 / 92
p0 637.4 ± 0.4716
740
720
700
680
660
640
620
600
580
560
540


eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 115.8 / 92
p0 26.43 ± 87.18
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 295
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.005469
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 3310 / 92
p0 83.4 ± 0.06165
95
90
85
80
75


asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.46 / 92
p0 1815 ± 667
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 713.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003554
Std Dev 0.9416
20
18
16
14
12
10
8
6
4
2
0
−8
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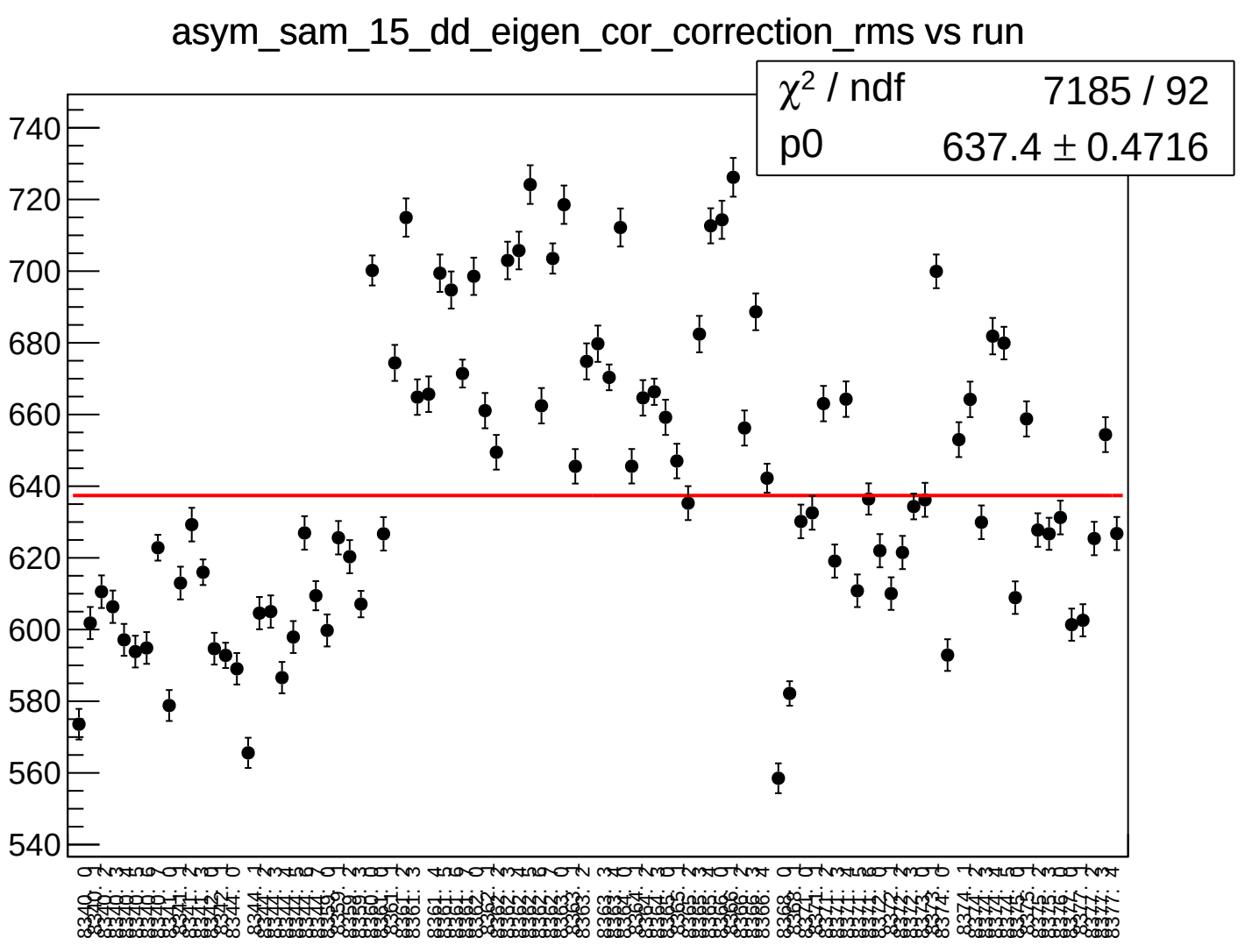
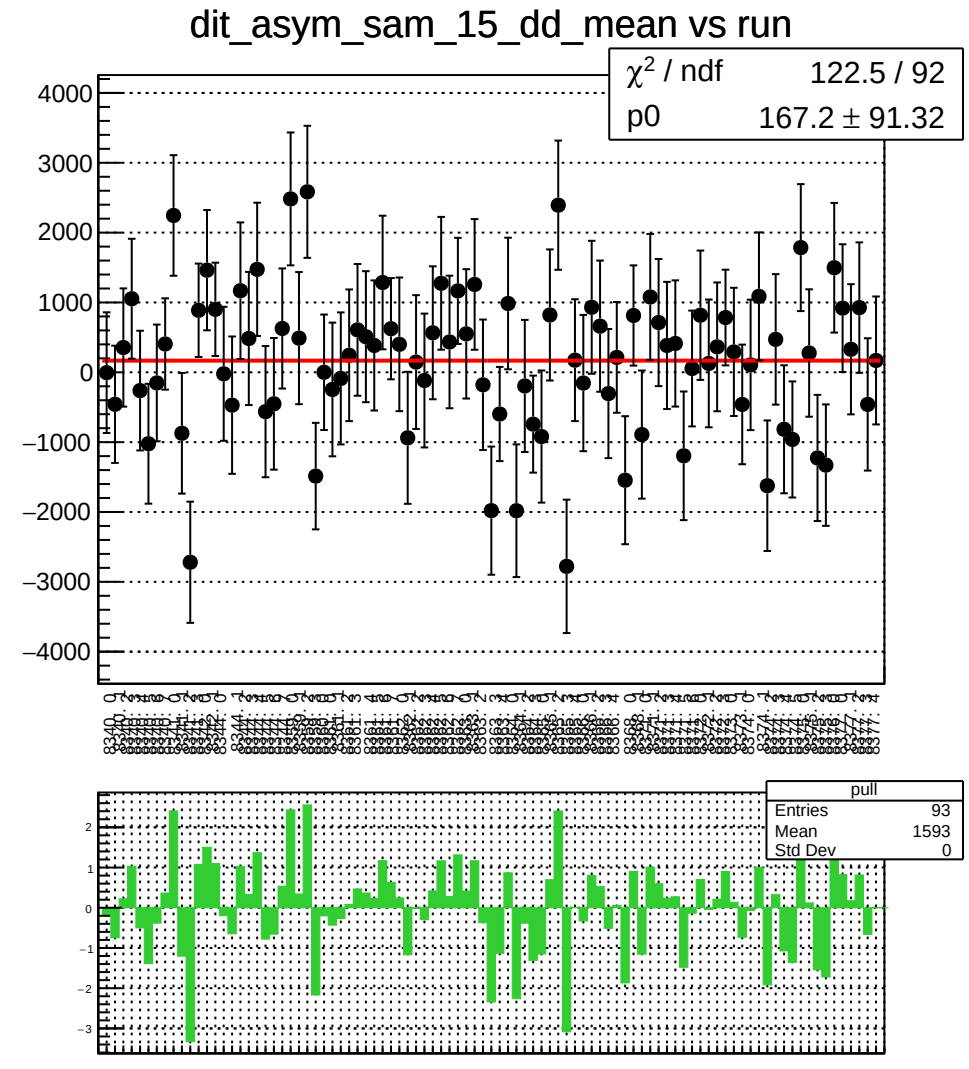
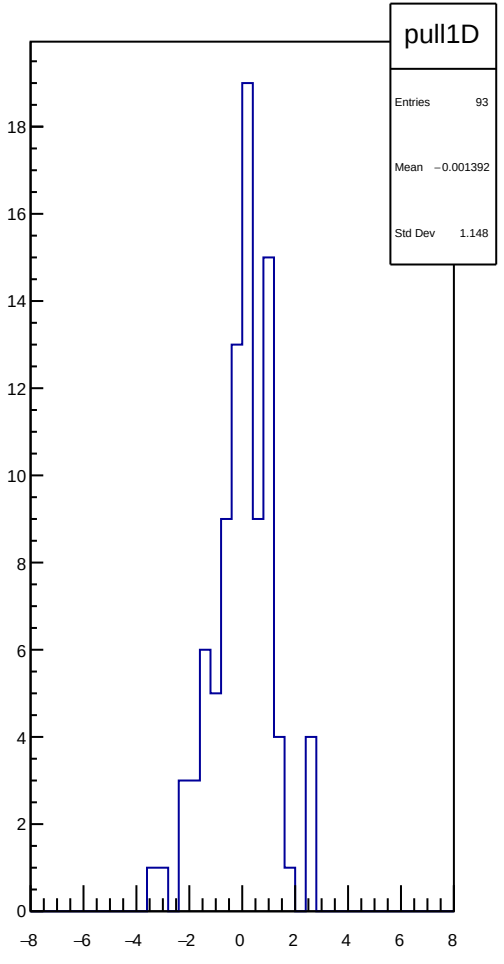
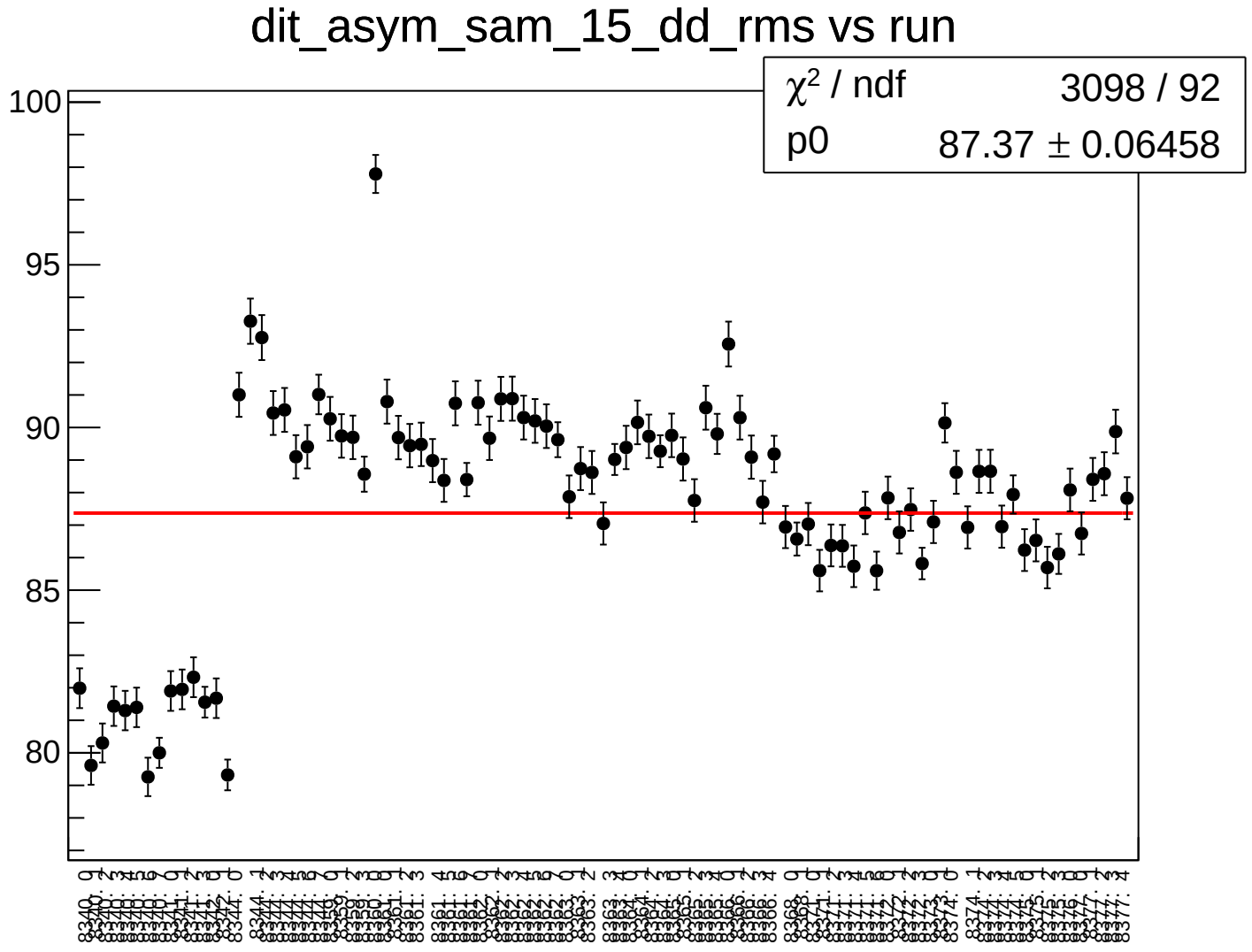
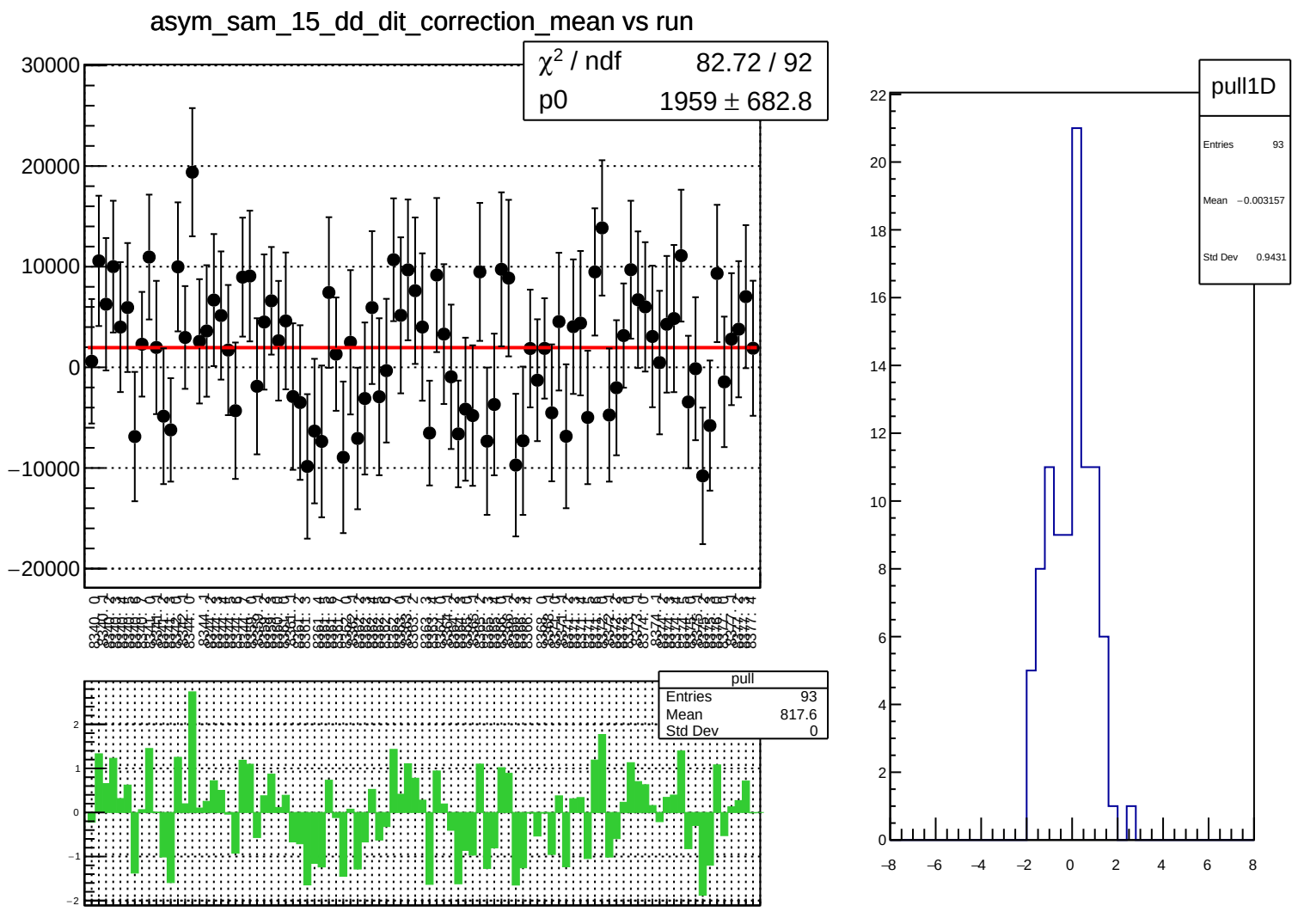
−4
−2
0
2
4
6
8

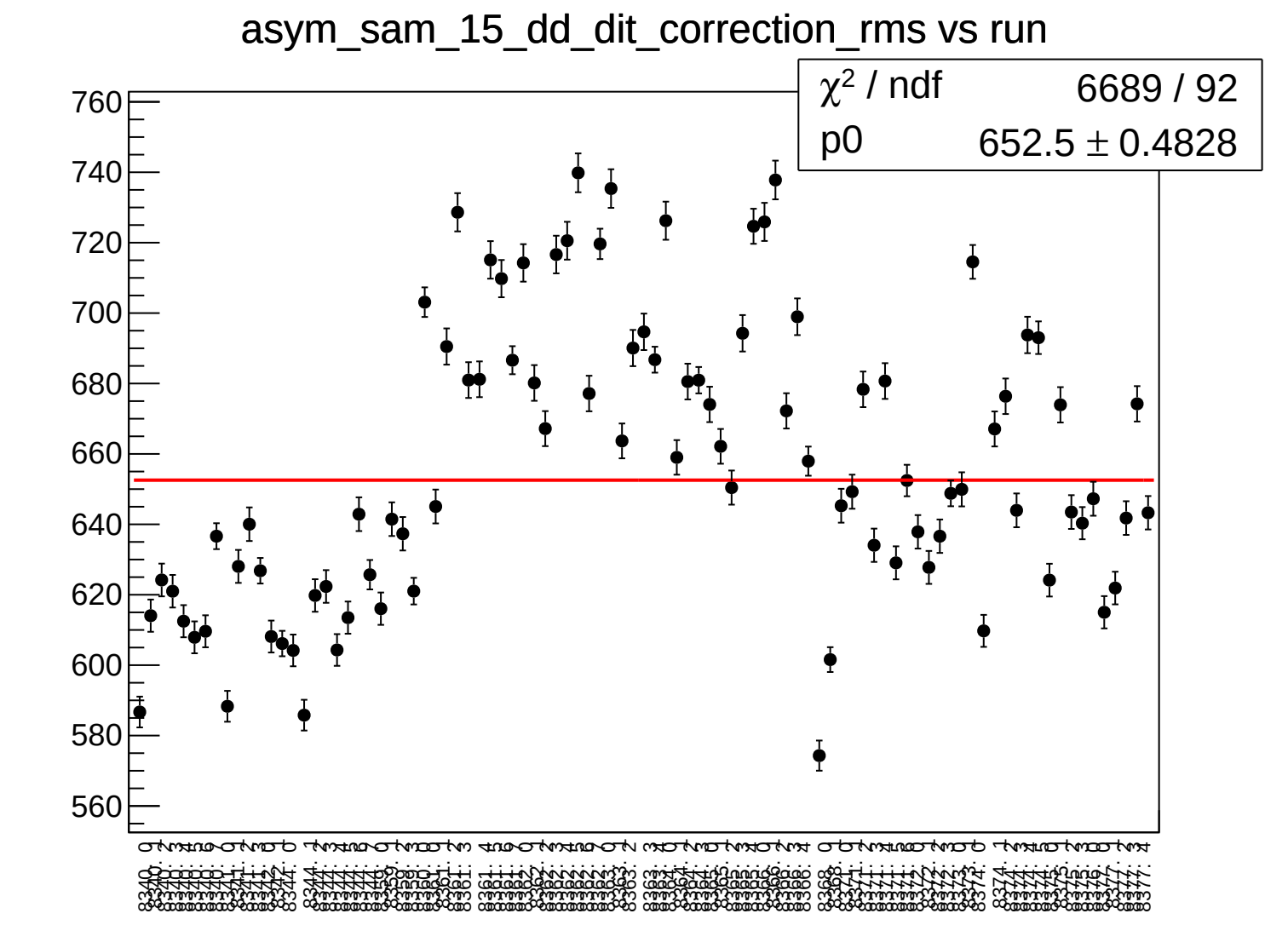

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 7185 / 92
p0 637.4 ± 0.4716
740
720
700
680
660
640
620
600
580
560
540

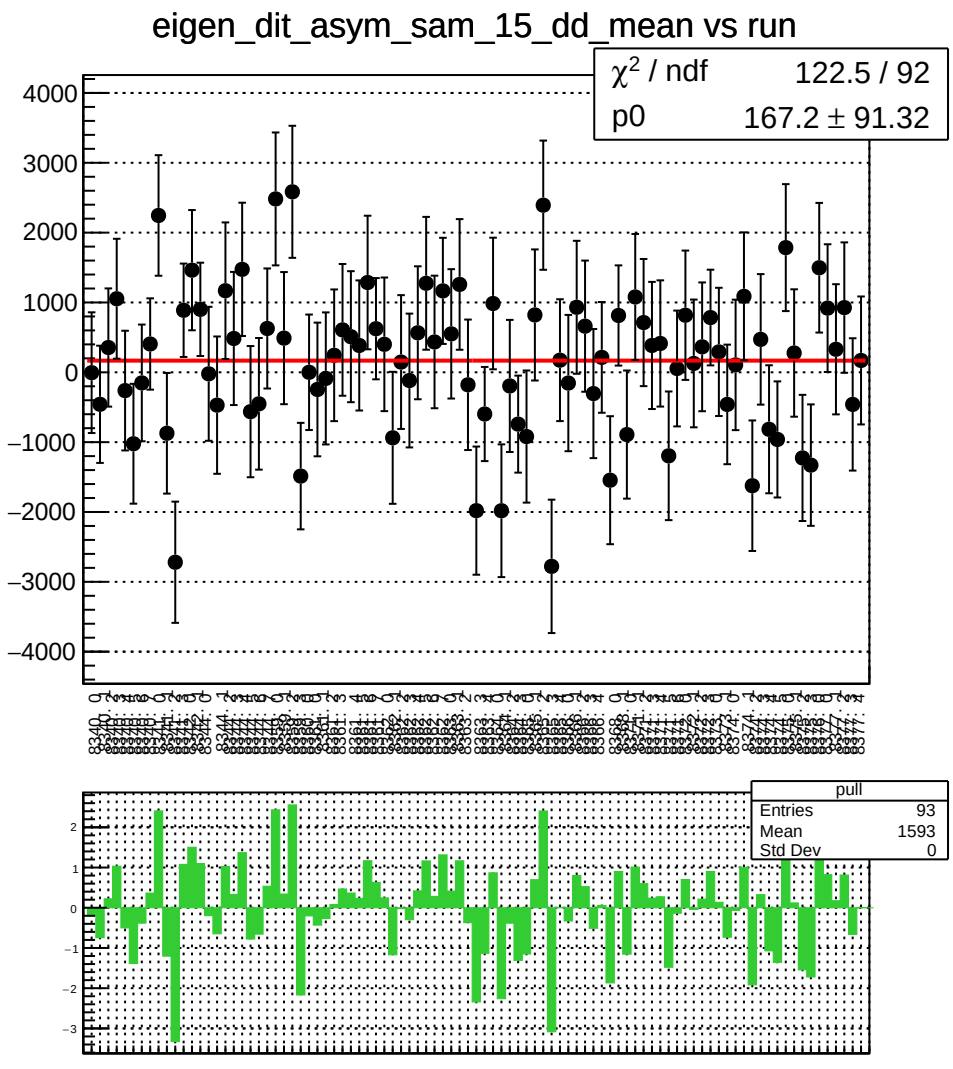

dit_asym_sam_15_dd_mean vs run
χ² / ndf 122.5 / 92
p0 167.2 ± 91.32
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 1593
Std Dev 0
2
1
0
−1
−2
−3

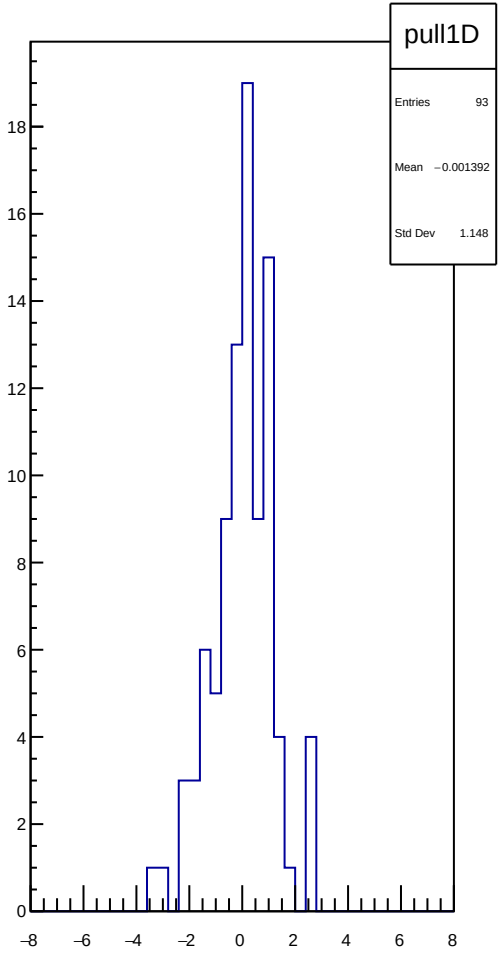

pull1D
Entries 93
Mean −0.001392
Std Dev 1.148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

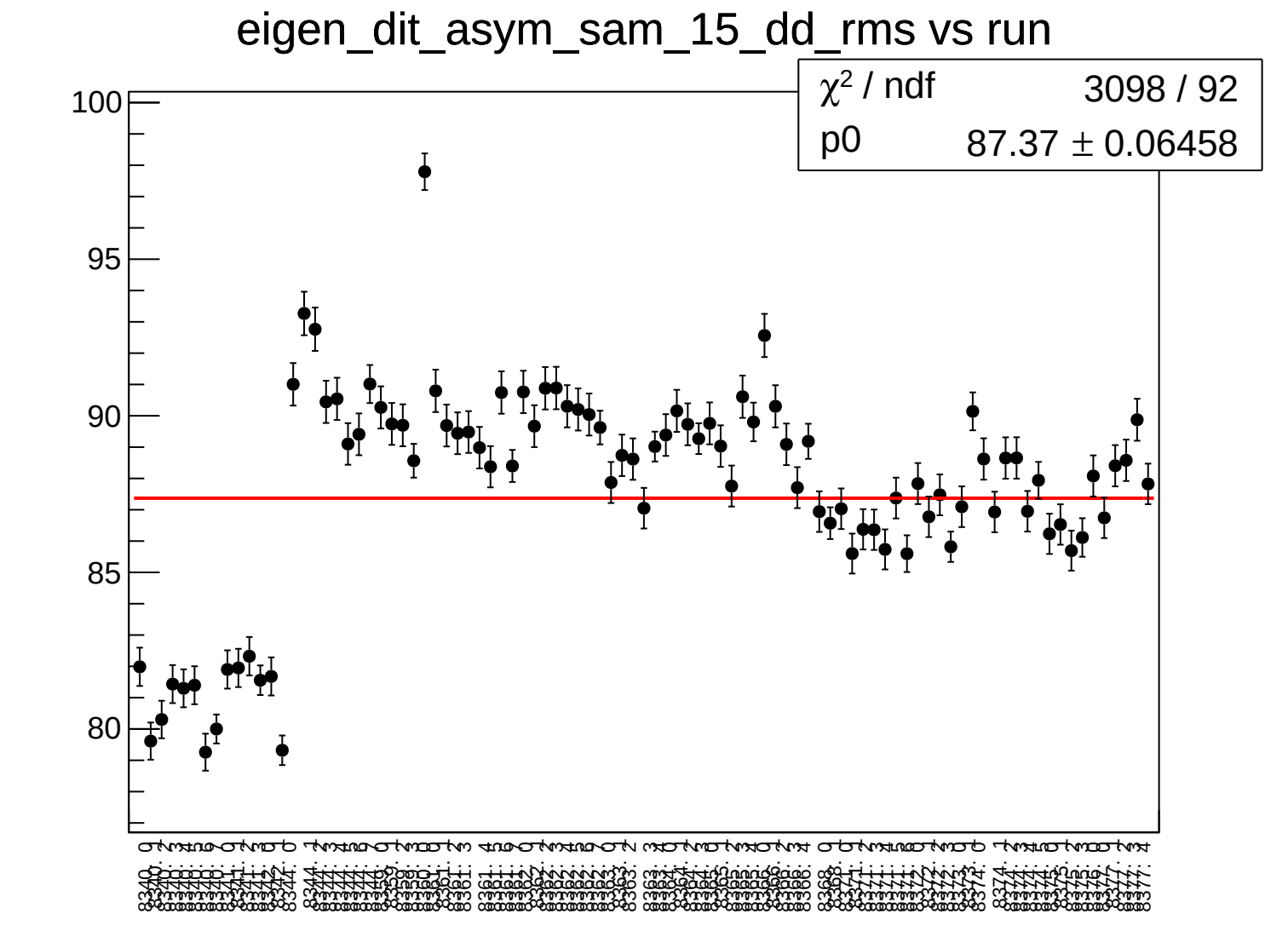

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 3098 / 92
p0 87.37 ± 0.06458
100
95
90
85
80

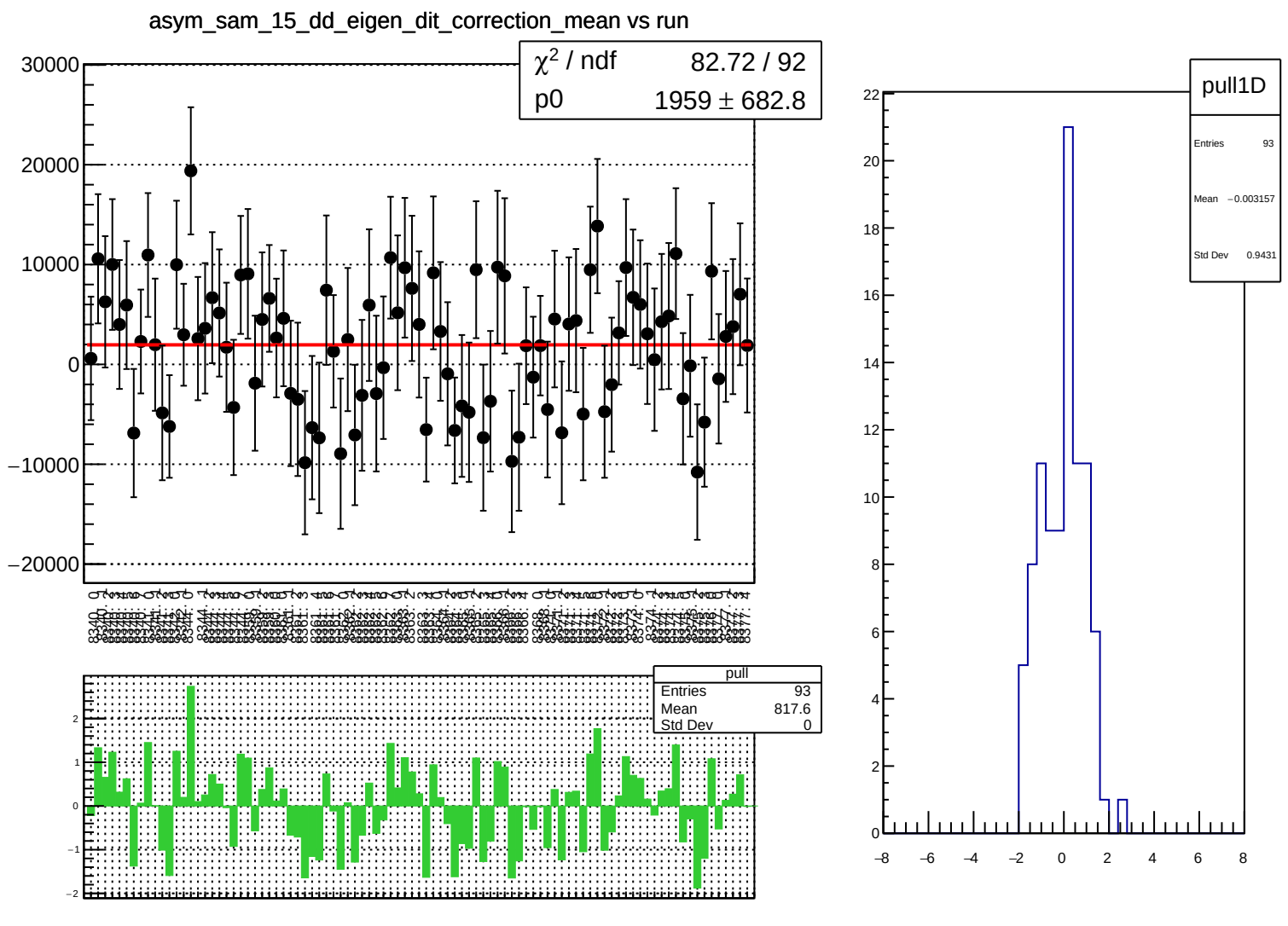

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 82.72 / 92
p0 1959 ± 682.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 817.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003157
Std Dev 0.9431
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

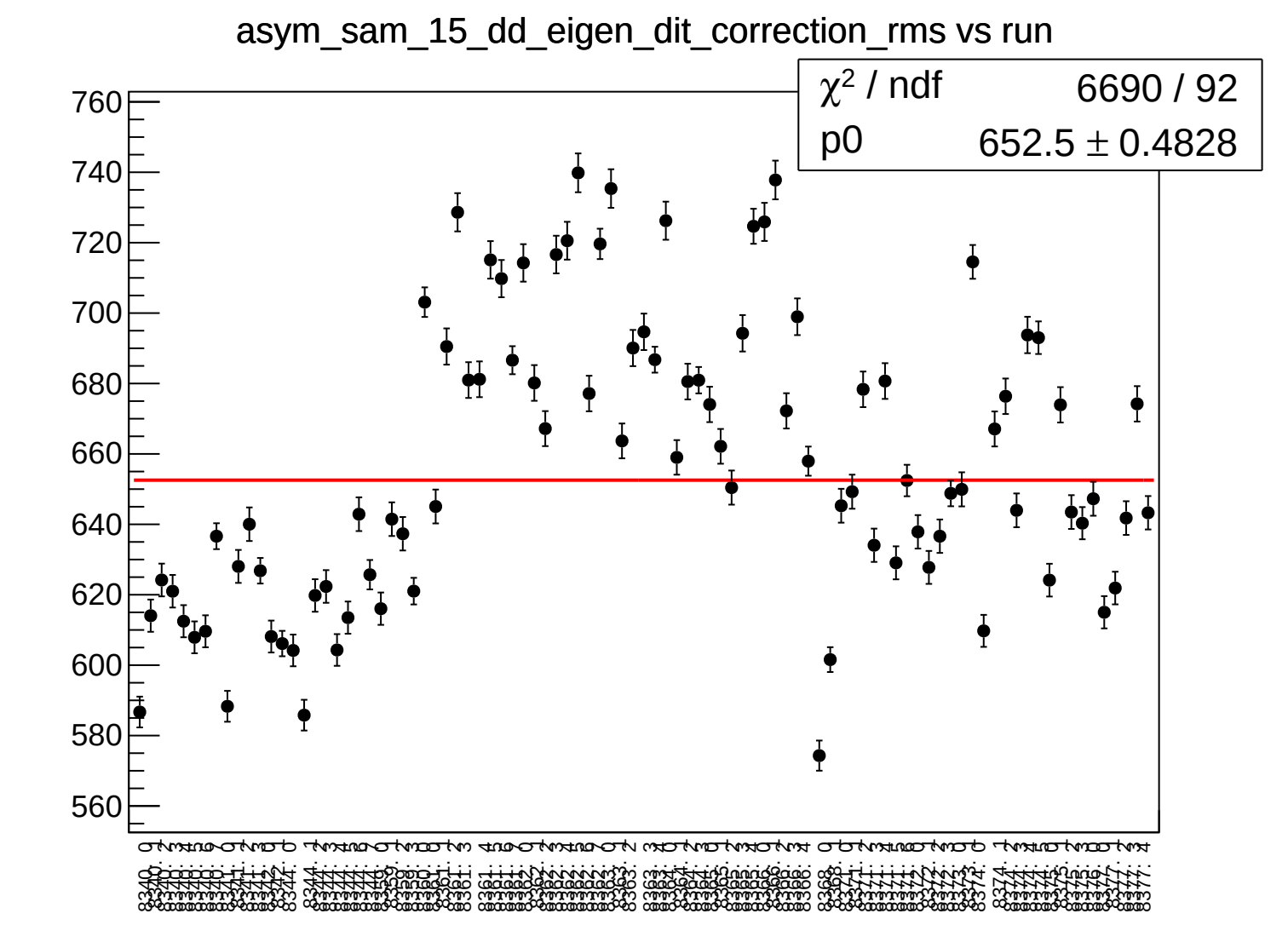

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 6689 / 92
p0 652.5 ± 0.4828
760
740
720
700
680
660
640
620
600
580
560

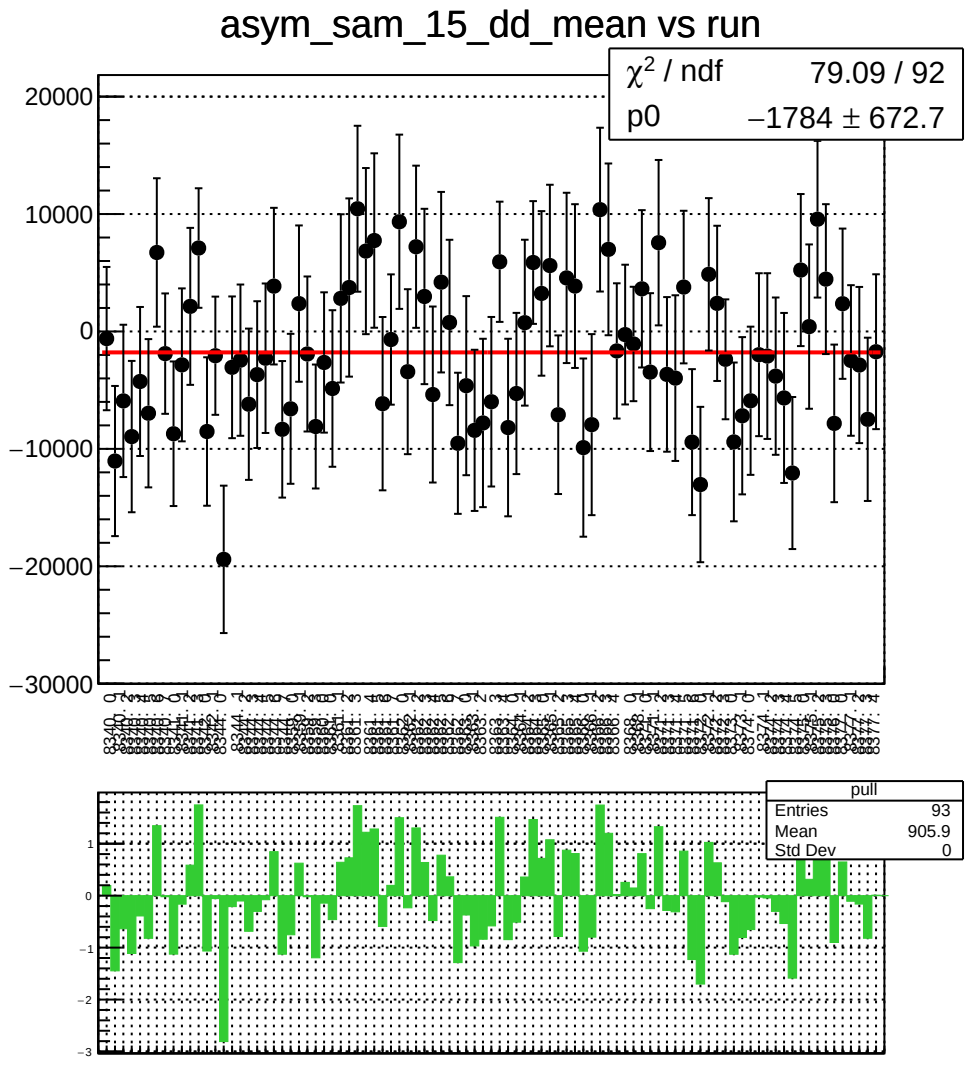

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 122.5 / 92
p0 167.2 ± 91.32
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 1593
Std Dev 0
2
1
0
−1
−2
−3

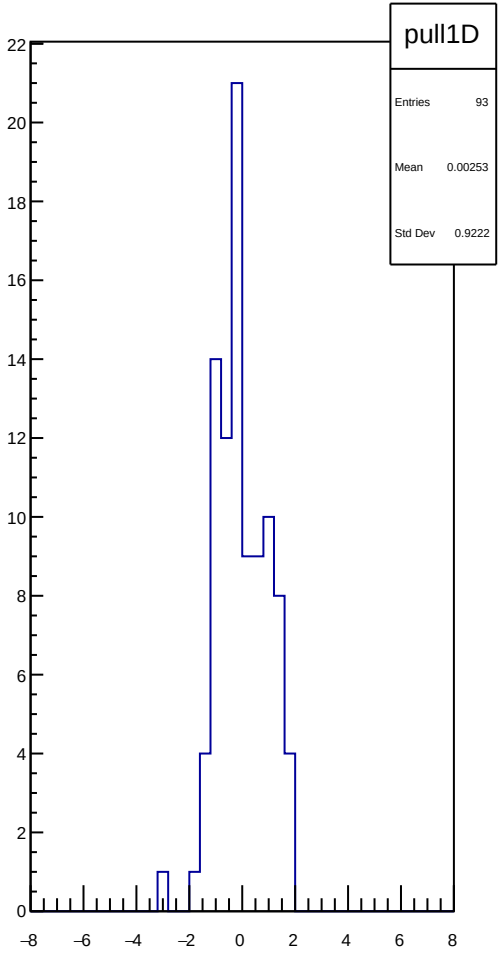

pull1D
Entries 93
Mean −0.001392
Std Dev 1.148
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

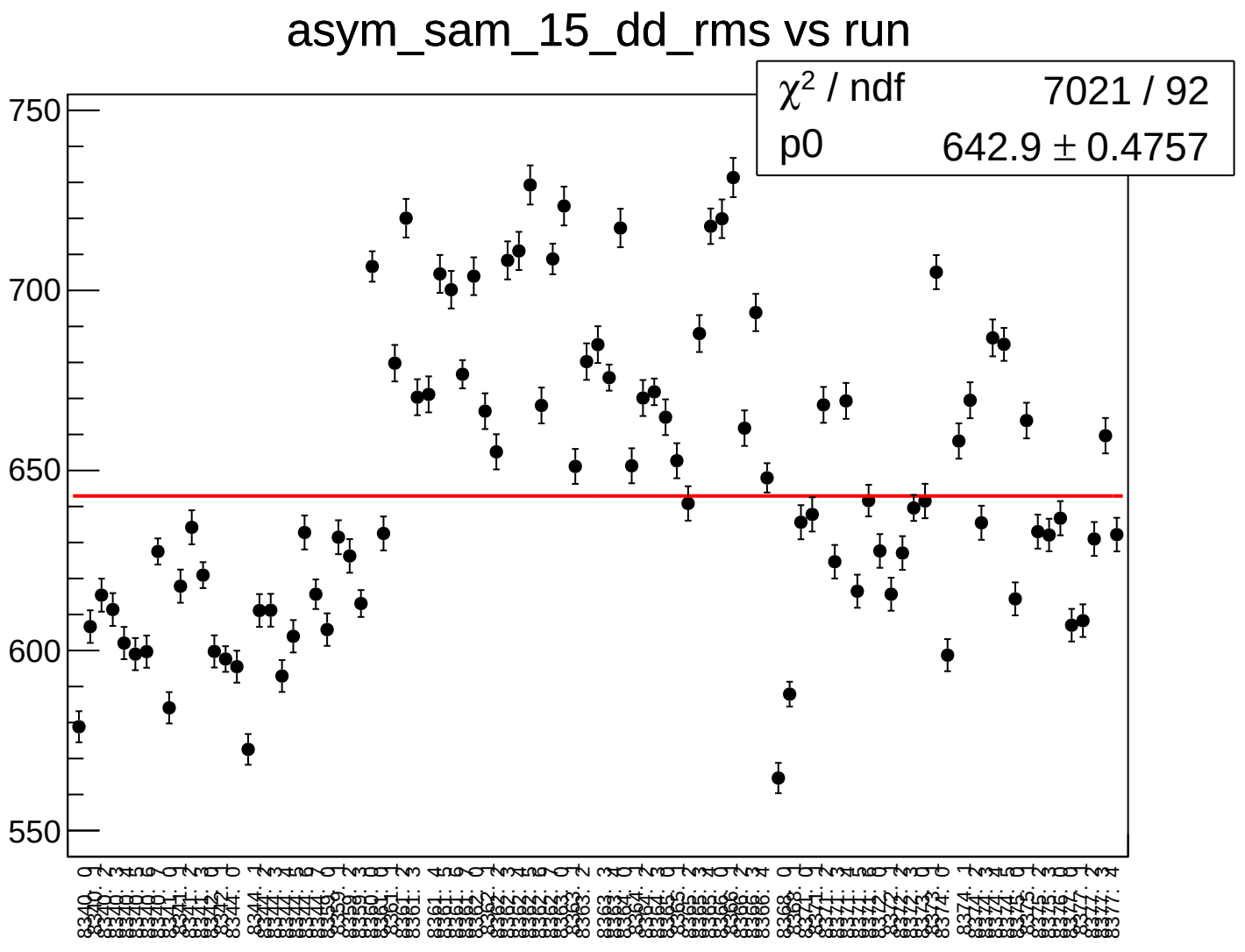

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 3098 / 92
p0 87.37 ± 0.06458
100
95
90
85
80

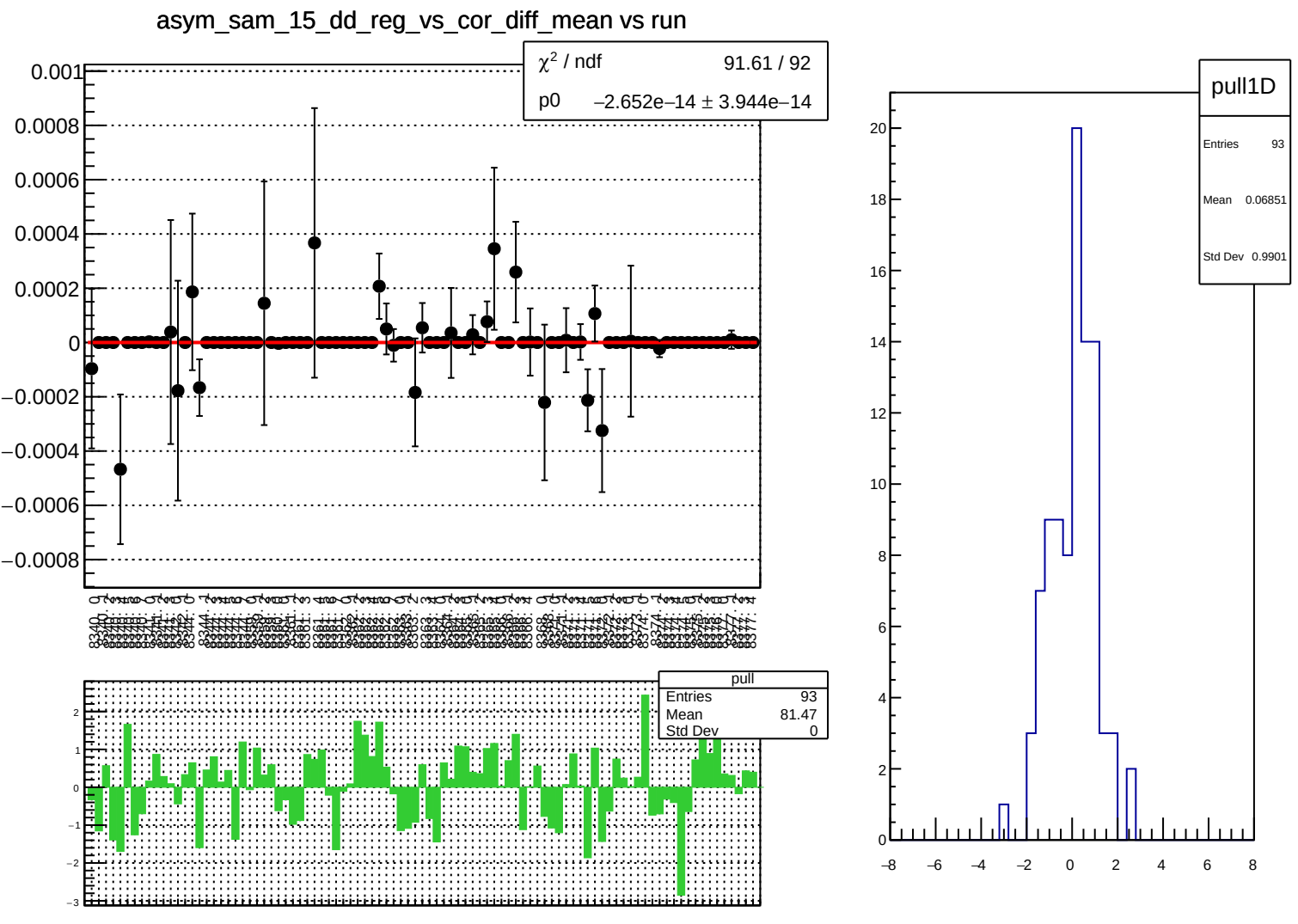

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.72 / 92
p0 1959 ± 682.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 817.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.003157
Std Dev 0.9431
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

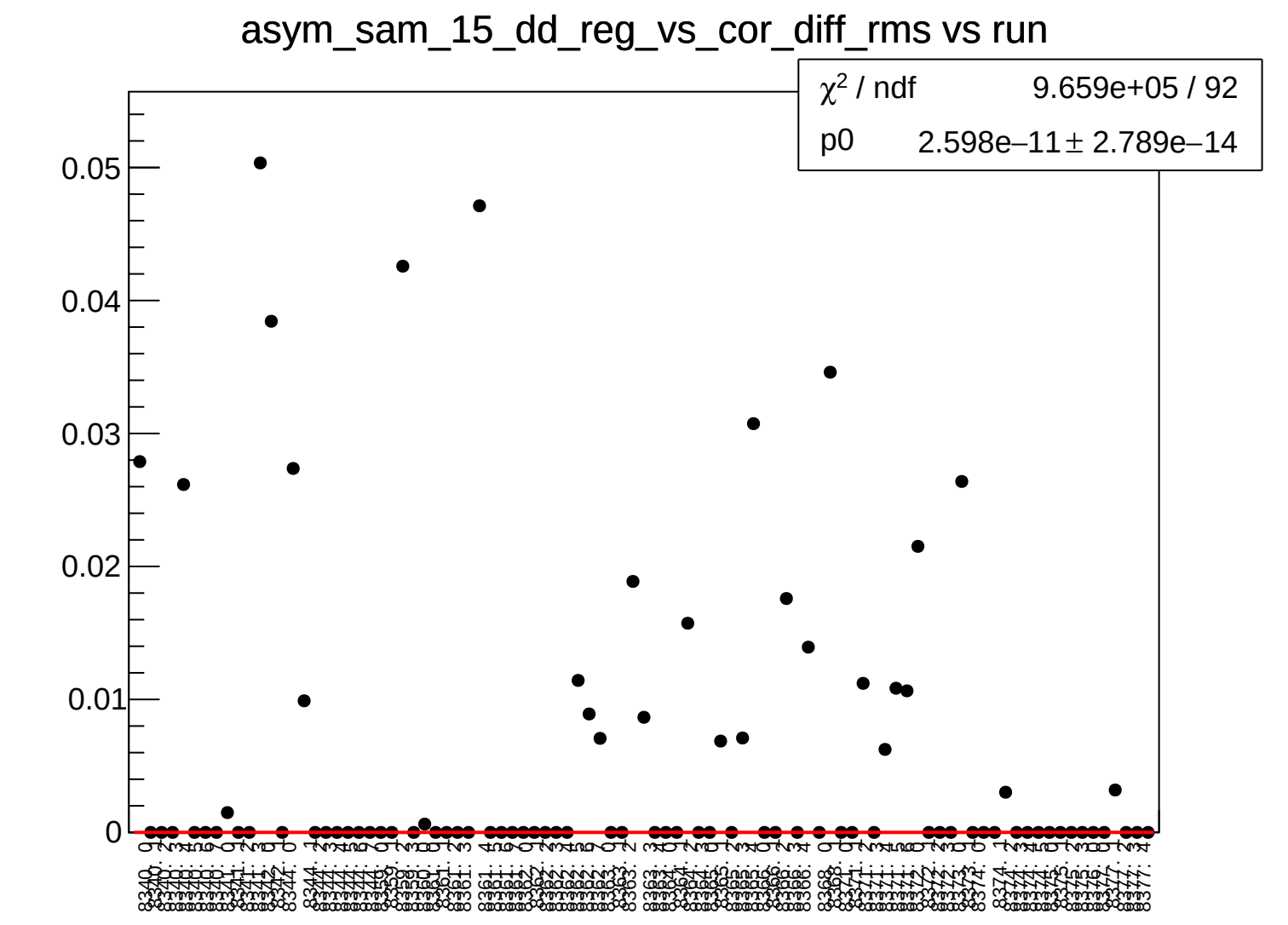

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 6690 / 92
p0 652.5 ± 0.4828
760
740
720
700
680
660
640
620
600
580
560

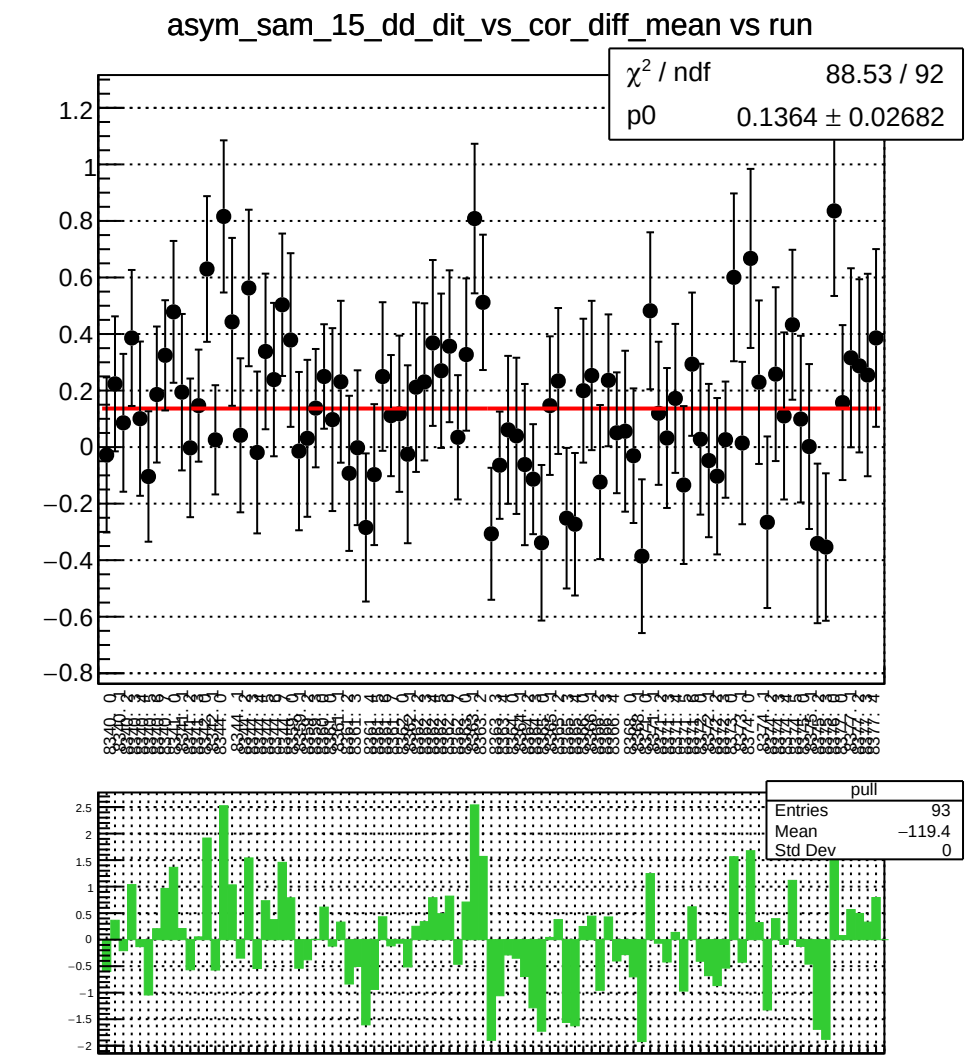

asym_sam_15_dd_mean vs run
χ² / ndf 79.09 / 92
p0 −1784 ± 672.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 905.9
Std Dev 0
1
0
−1
−2
−3

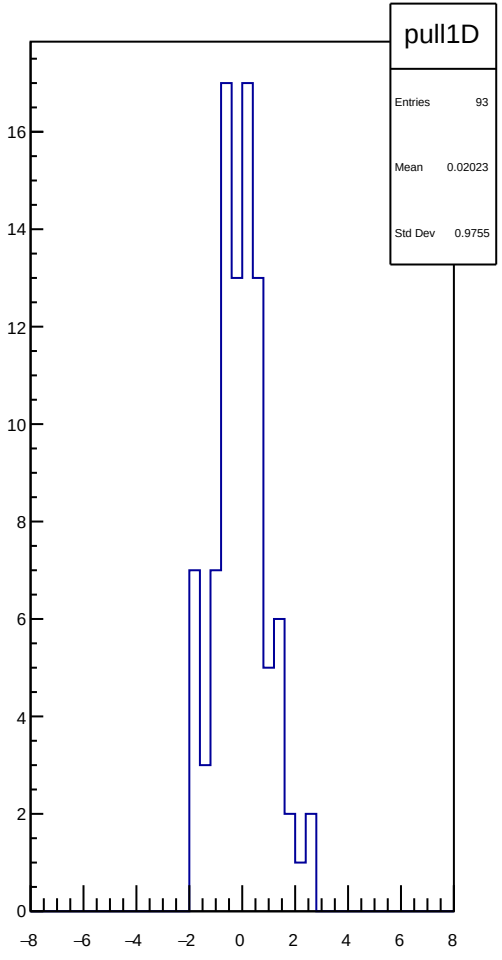

pull1D
Entries 93
Mean 0.00253
Std Dev 0.9222
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

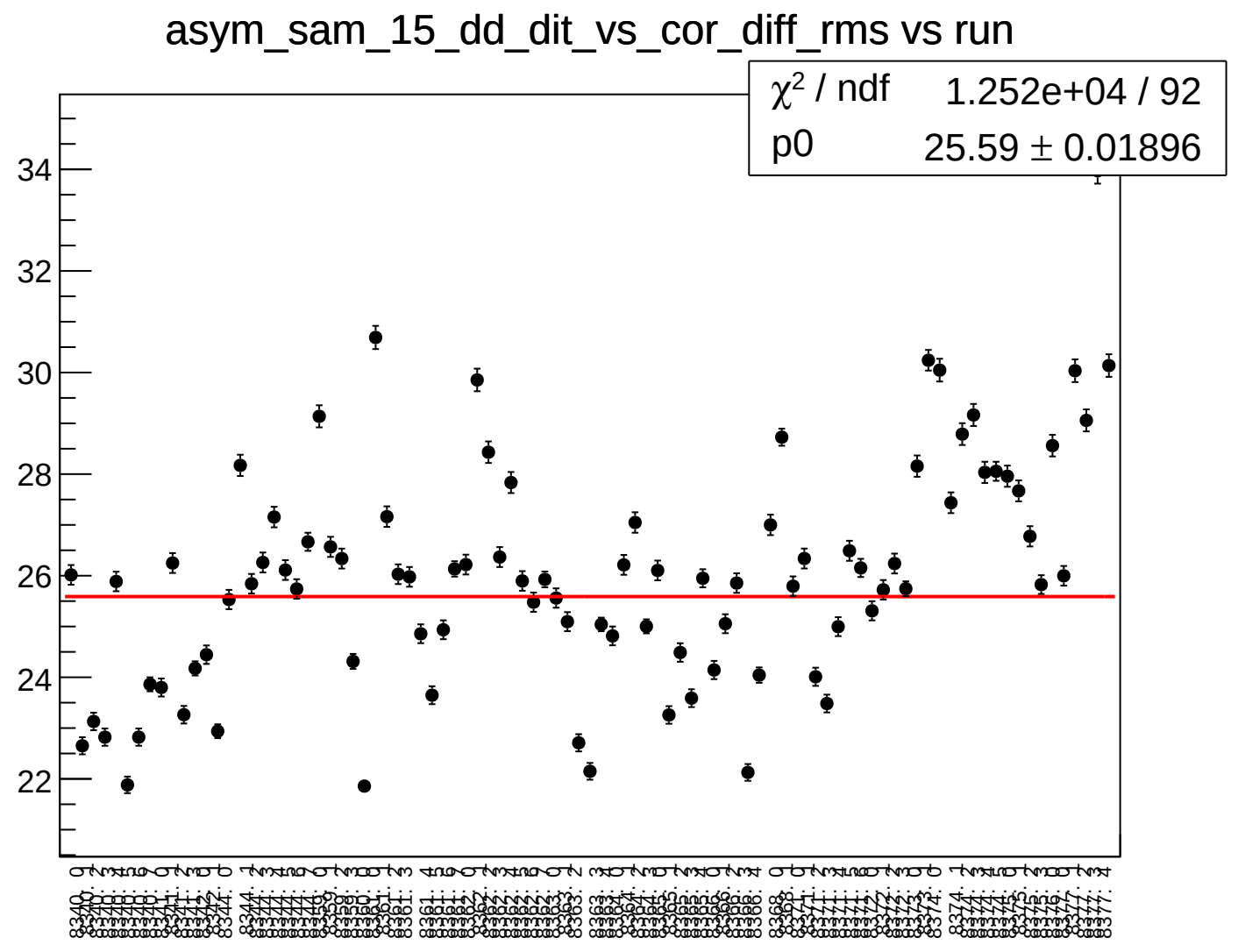

asym_sam_15_dd_rms vs run
χ² / ndf 7021 / 92
p0 642.9 ± 0.4757
750
700
650
600
550

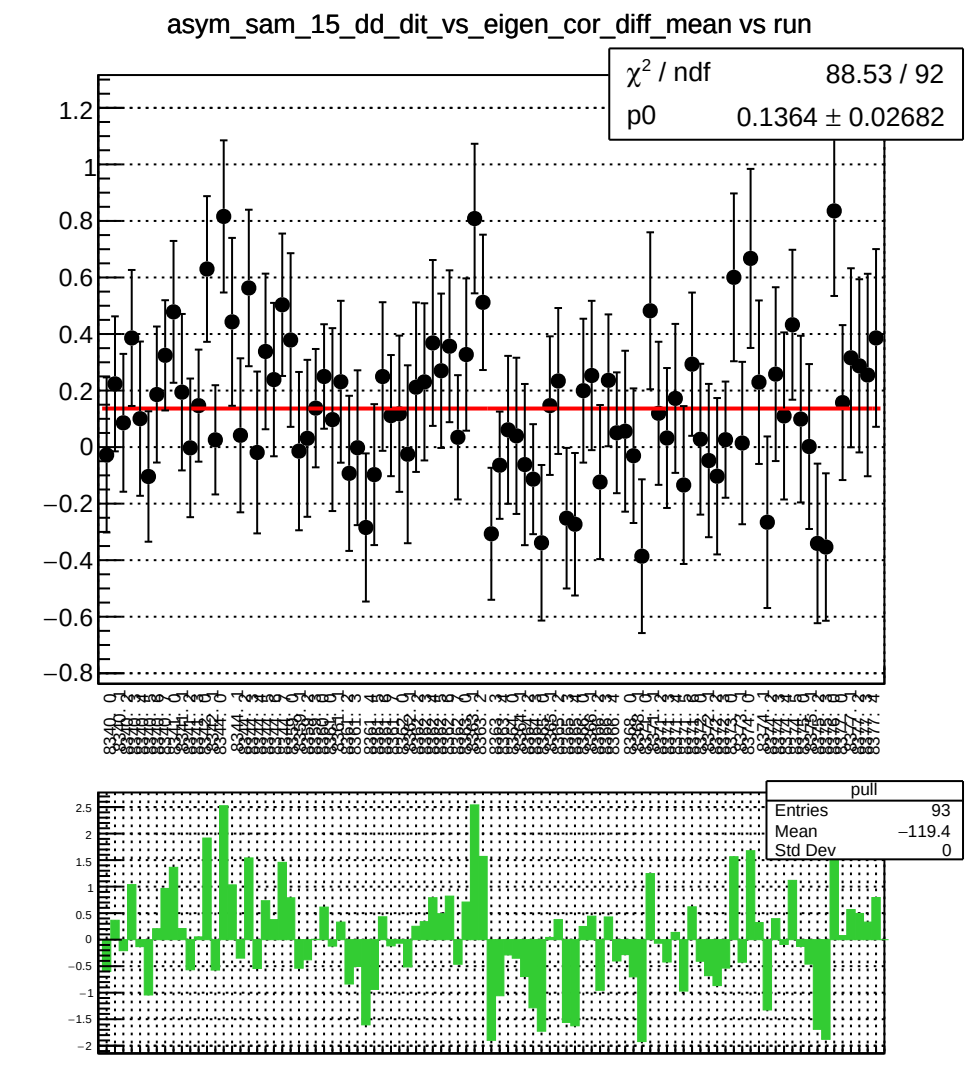

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 92
p0 −2.652e−14 ± 3.944e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean 81.47
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.06851
Std Dev 0.9901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

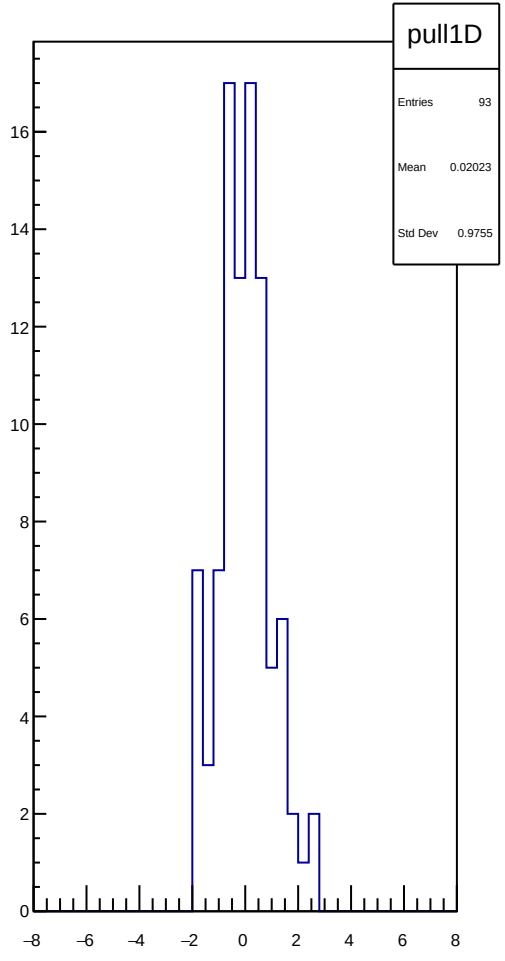

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.659e+05 / 92
p0 2.598e−11 ± 2.789e−14
0.05
0.04
0.03
0.02
0.01
0

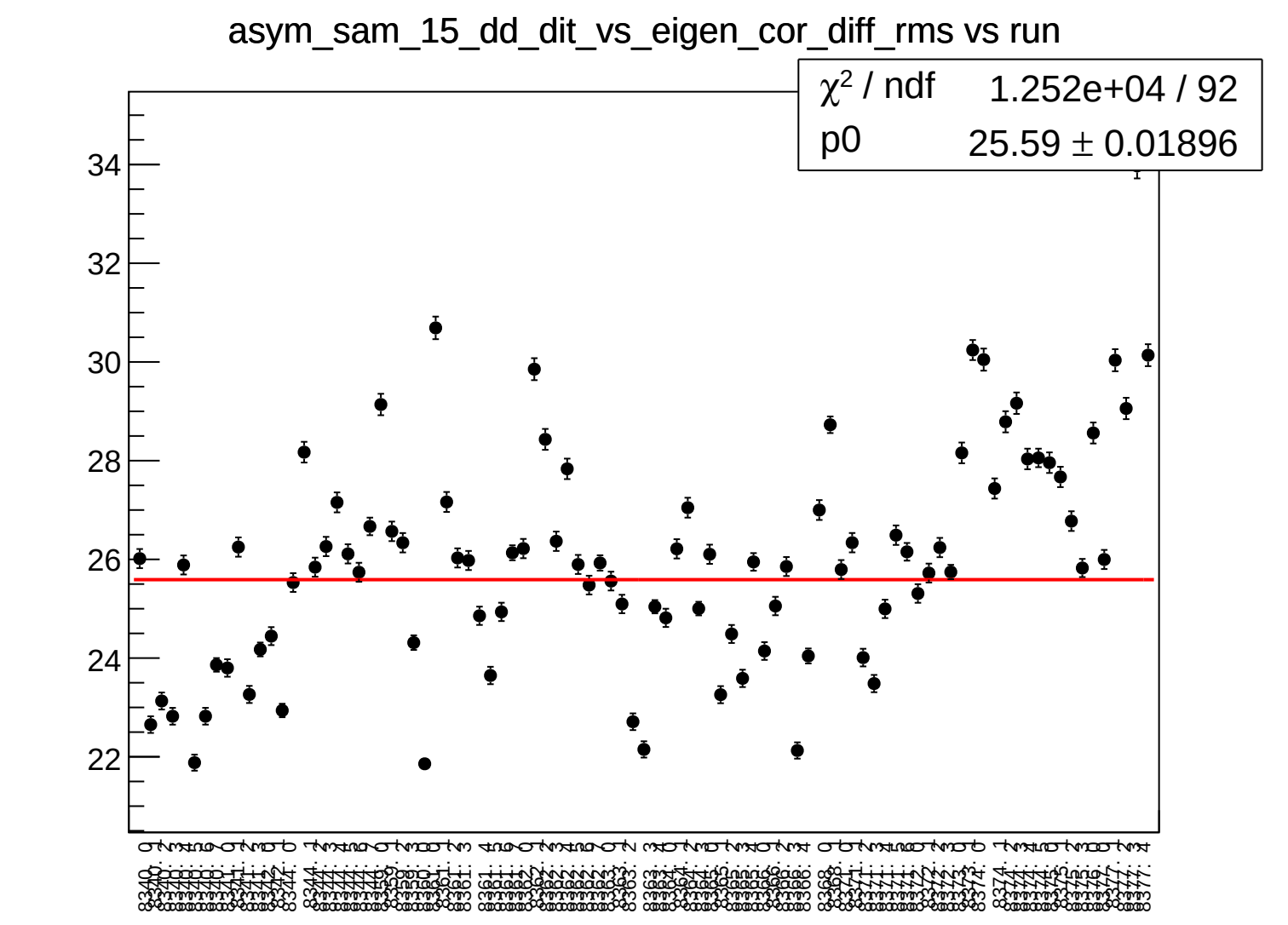

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.53 / 92
p0 0.1364 ± 0.02682
pull
Entries 93
Mean −119.4
Std Dev 0

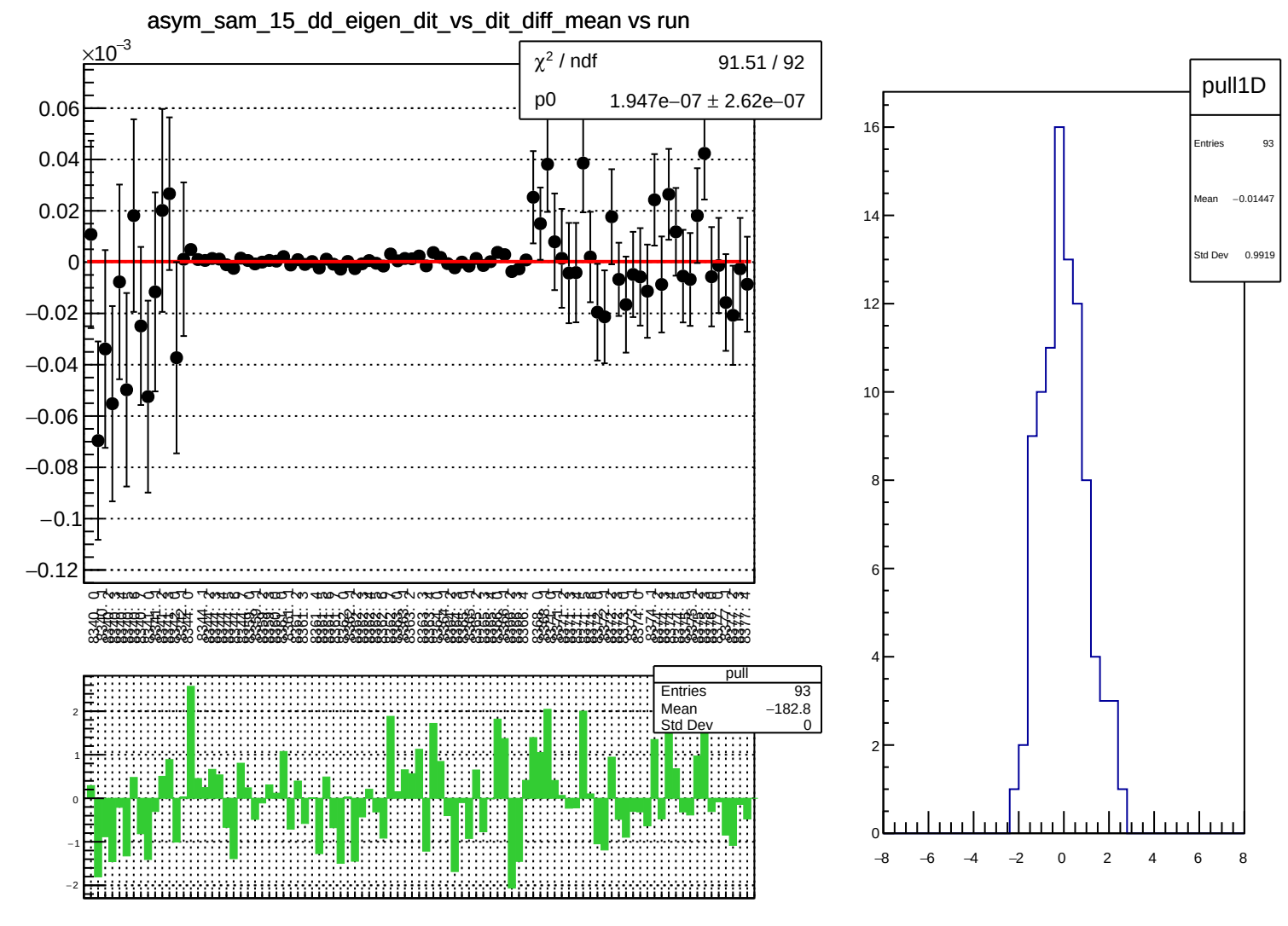

pull1D
Entries 93
Mean 0.02023
Std Dev 0.9755

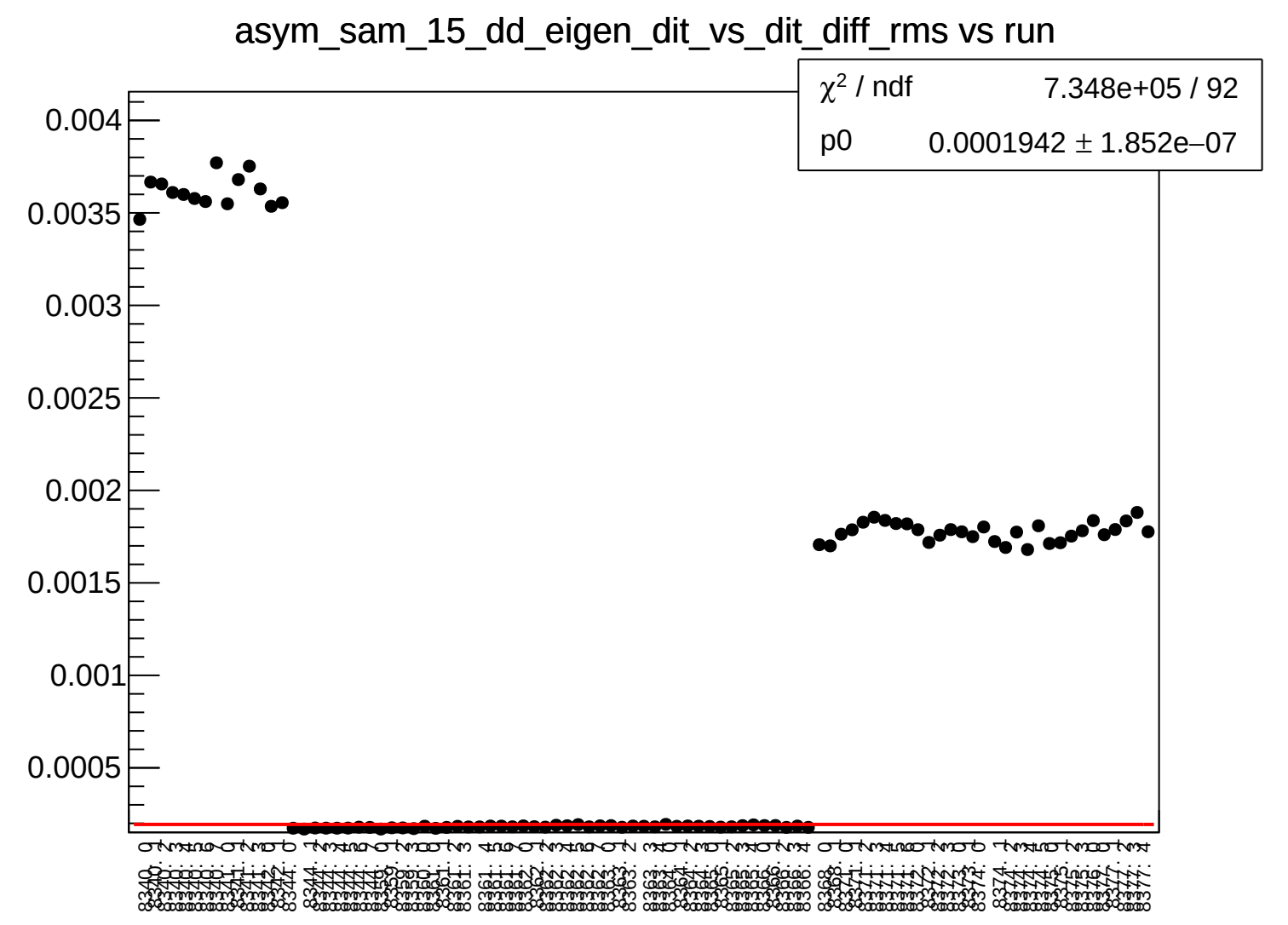

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.252e+04 / 92
p0 25.59 ± 0.01896
34
32
30
28
26
24
22

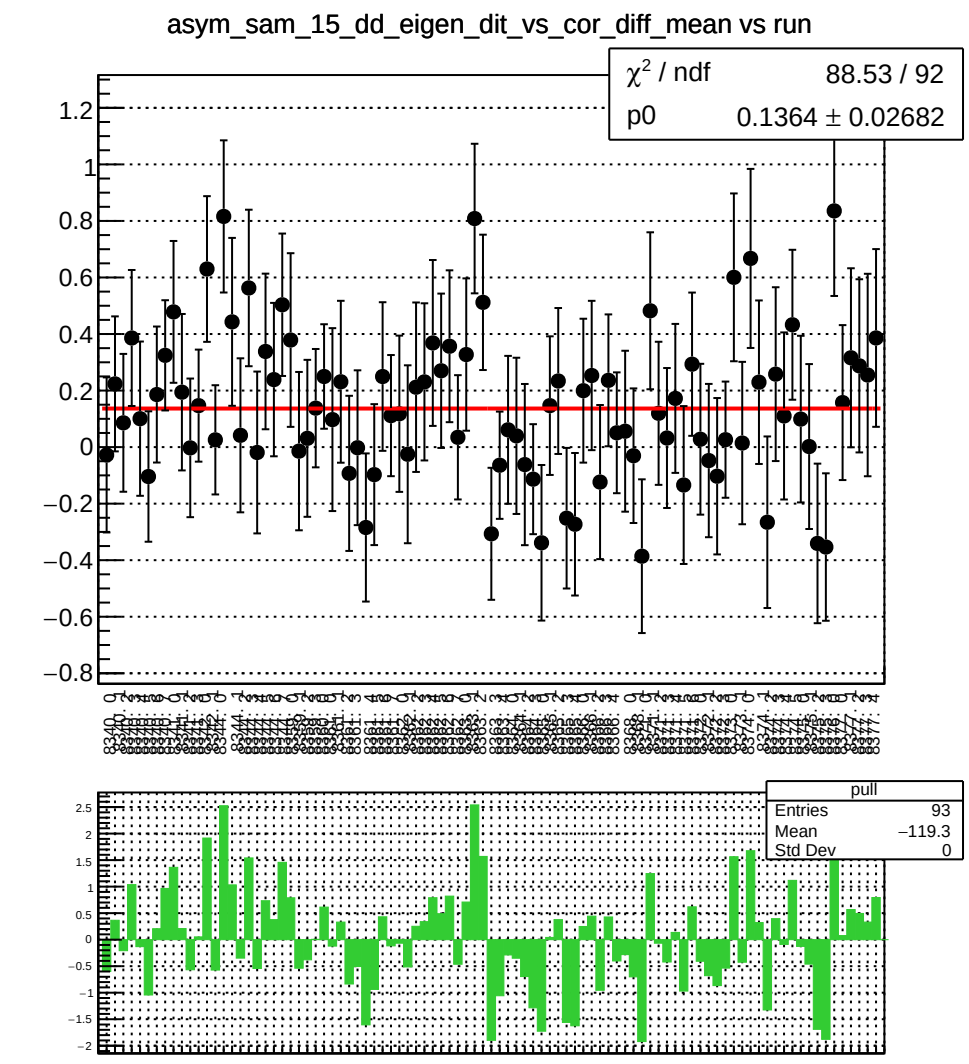

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.53 / 92
p0 0.1364 ± 0.02682
pull
Entries 93
Mean −119.4
Std Dev 0

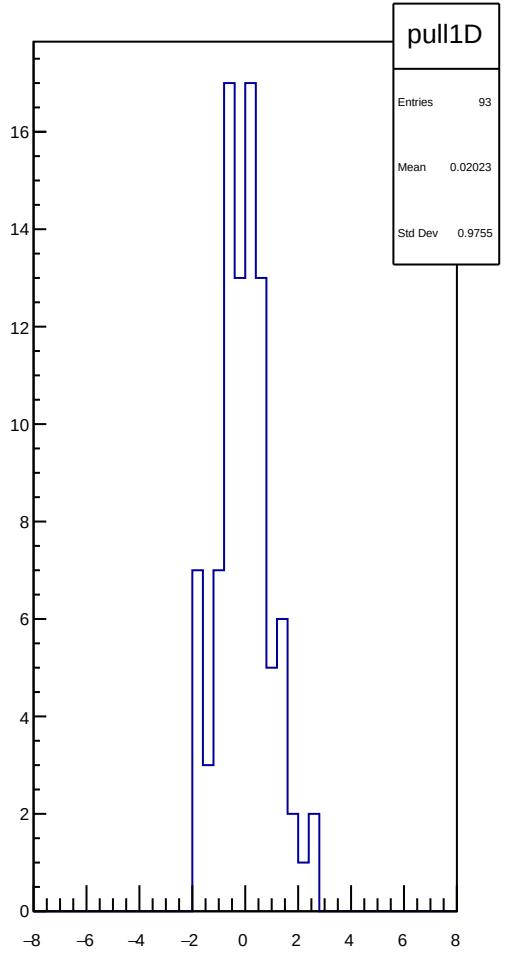

pull1D
Entries 93
Mean 0.02023
Std Dev 0.9755

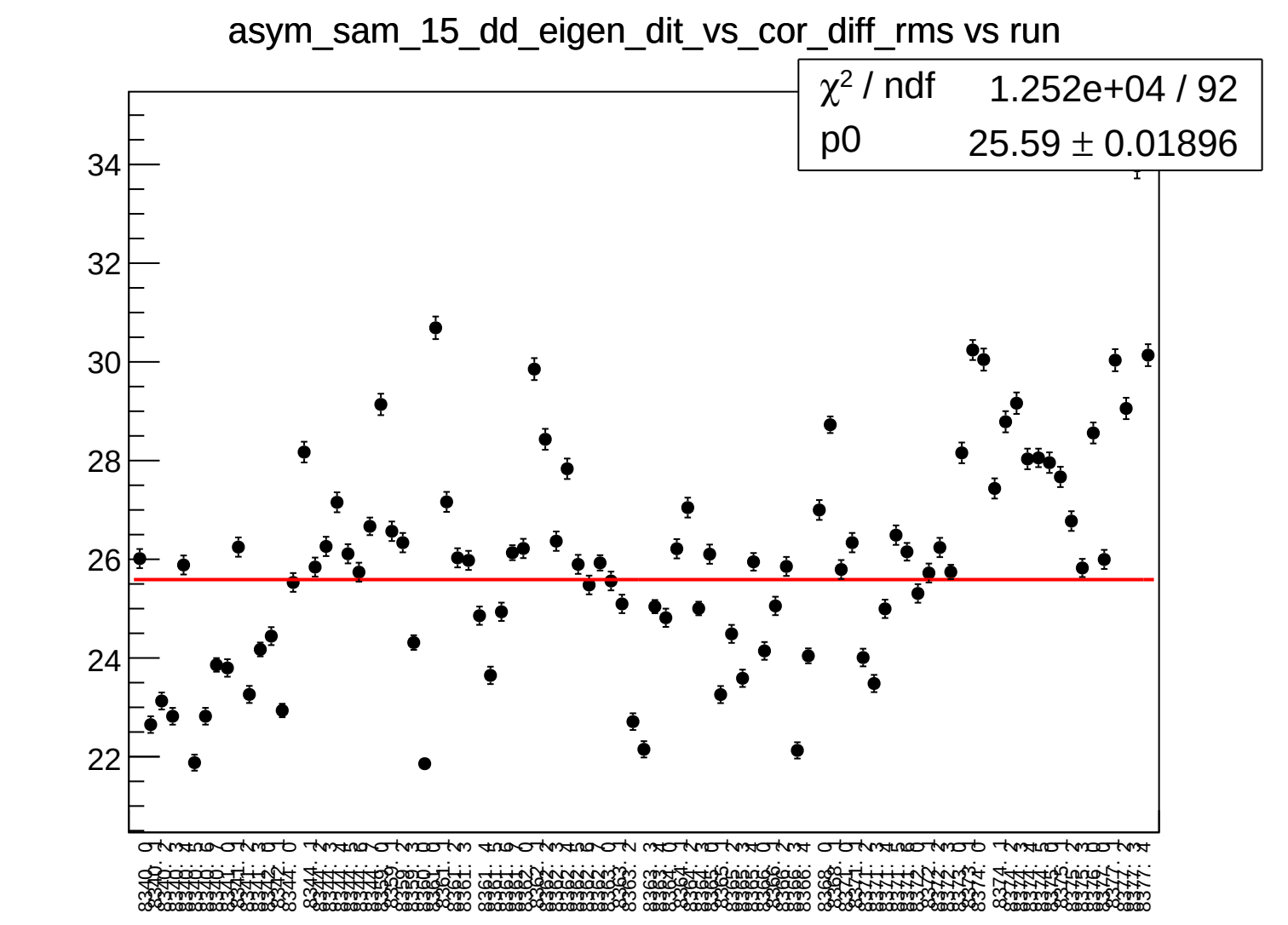

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.252e+04 / 92
p0 25.59 ± 0.01896
34
32
30
28
26
24
22

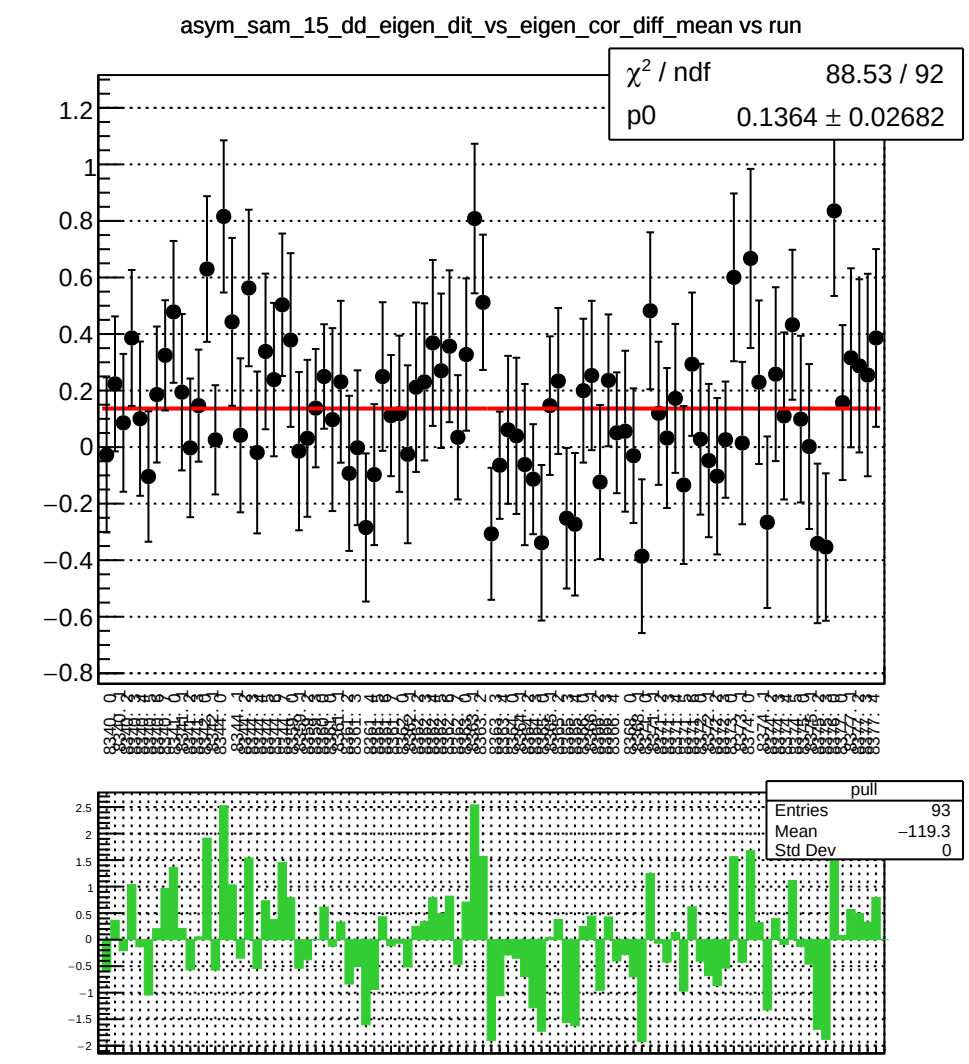

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.51 / 92
p0 1.947e−07 ± 2.62e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 93
Mean −182.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01447
Std Dev 0.9919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

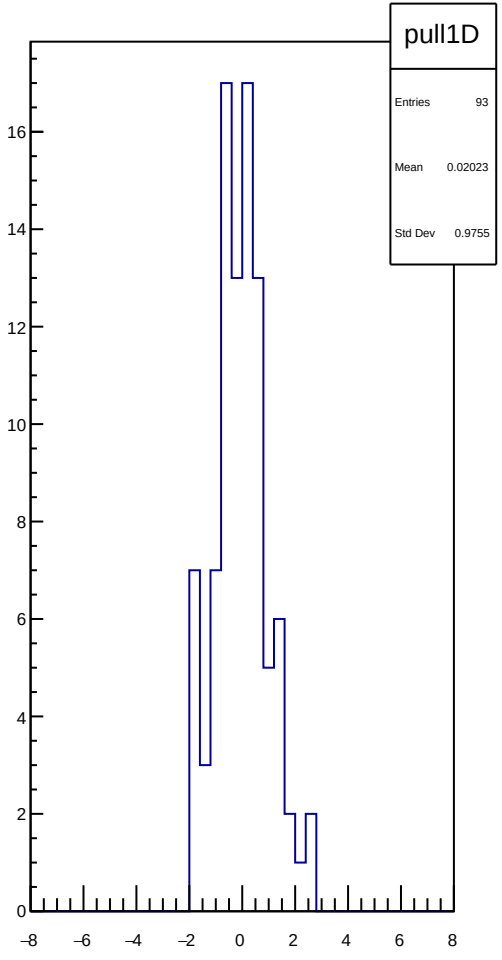

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.348e+05 / 92
p0 0.0001942 ± 1.852e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

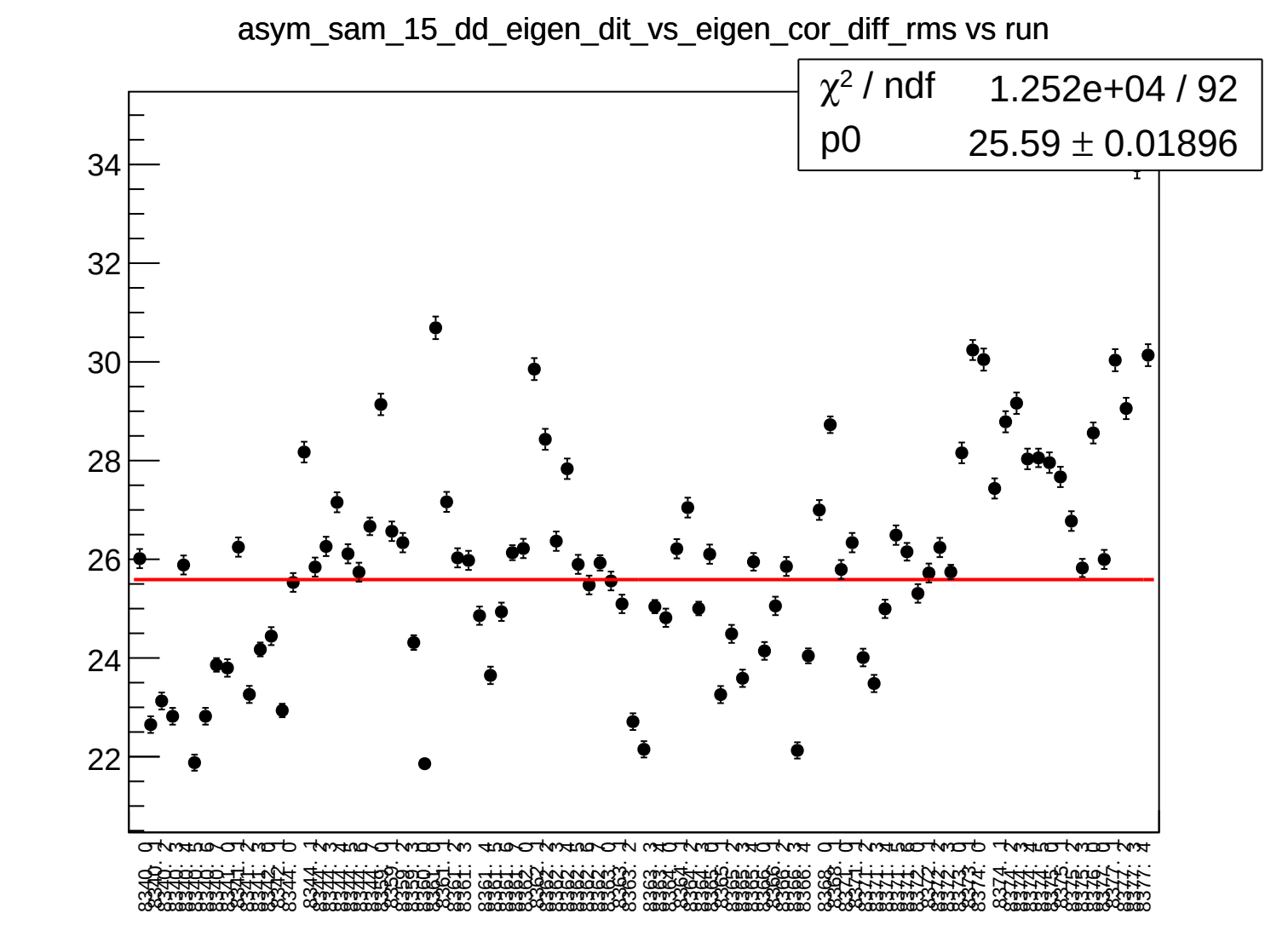

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.53 / 92
p0 0.1364 ± 0.02682
pull
Entries 93
Mean −119.3
Std Dev 0

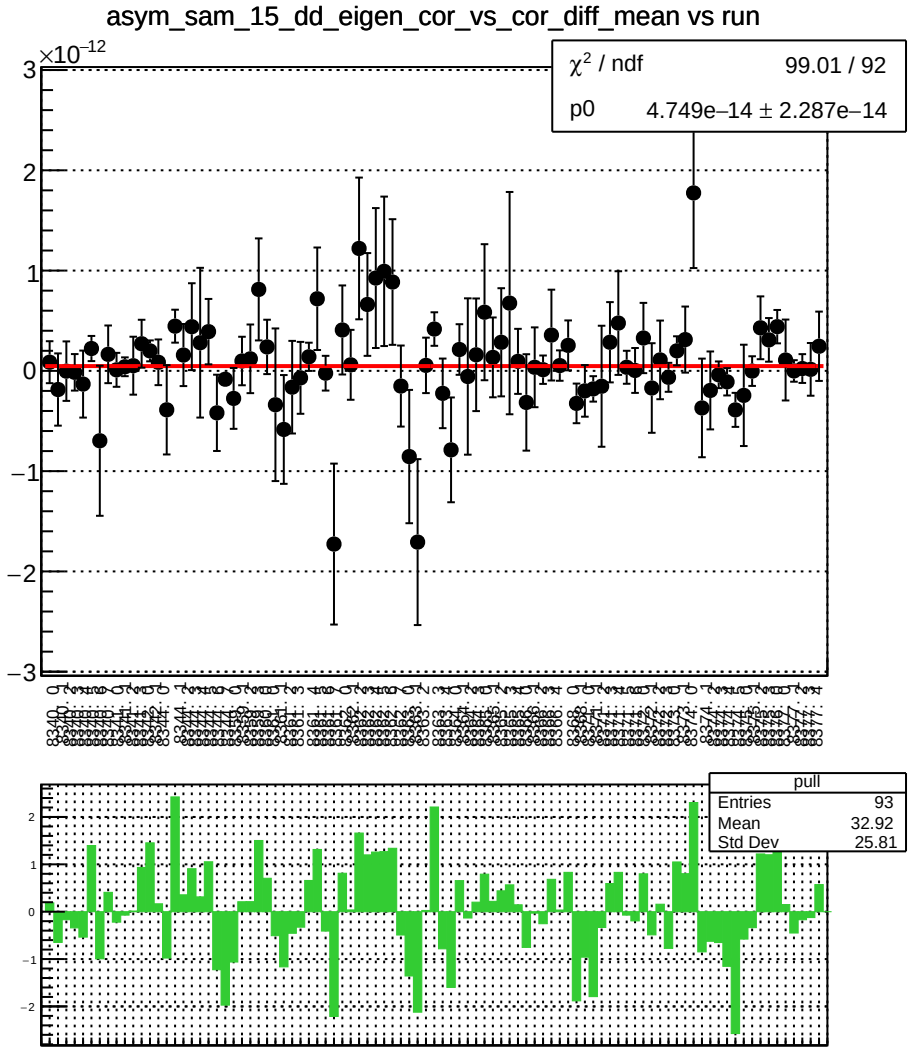

pull1D
Entries 93
Mean 0.02023
Std Dev 0.9755

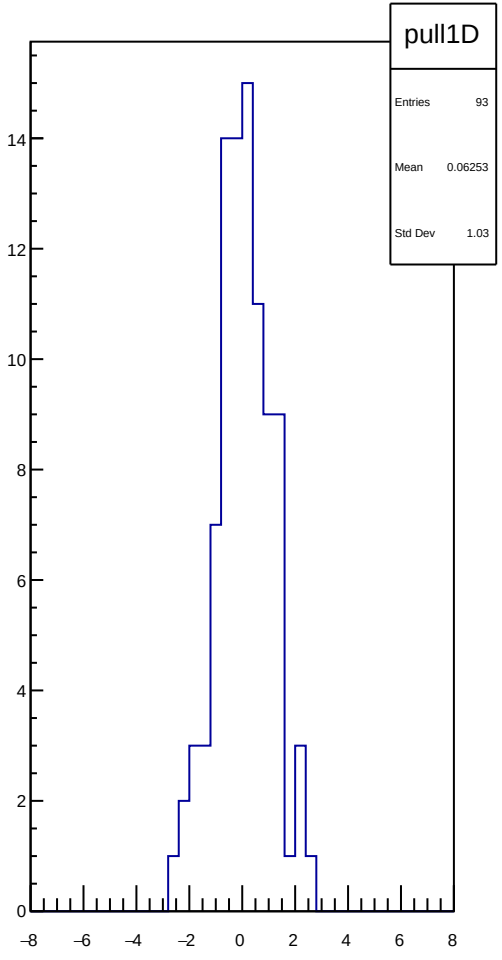

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.252e+04 / 92
p0 25.59 ± 0.01896
34
32
30
28
26
24
22

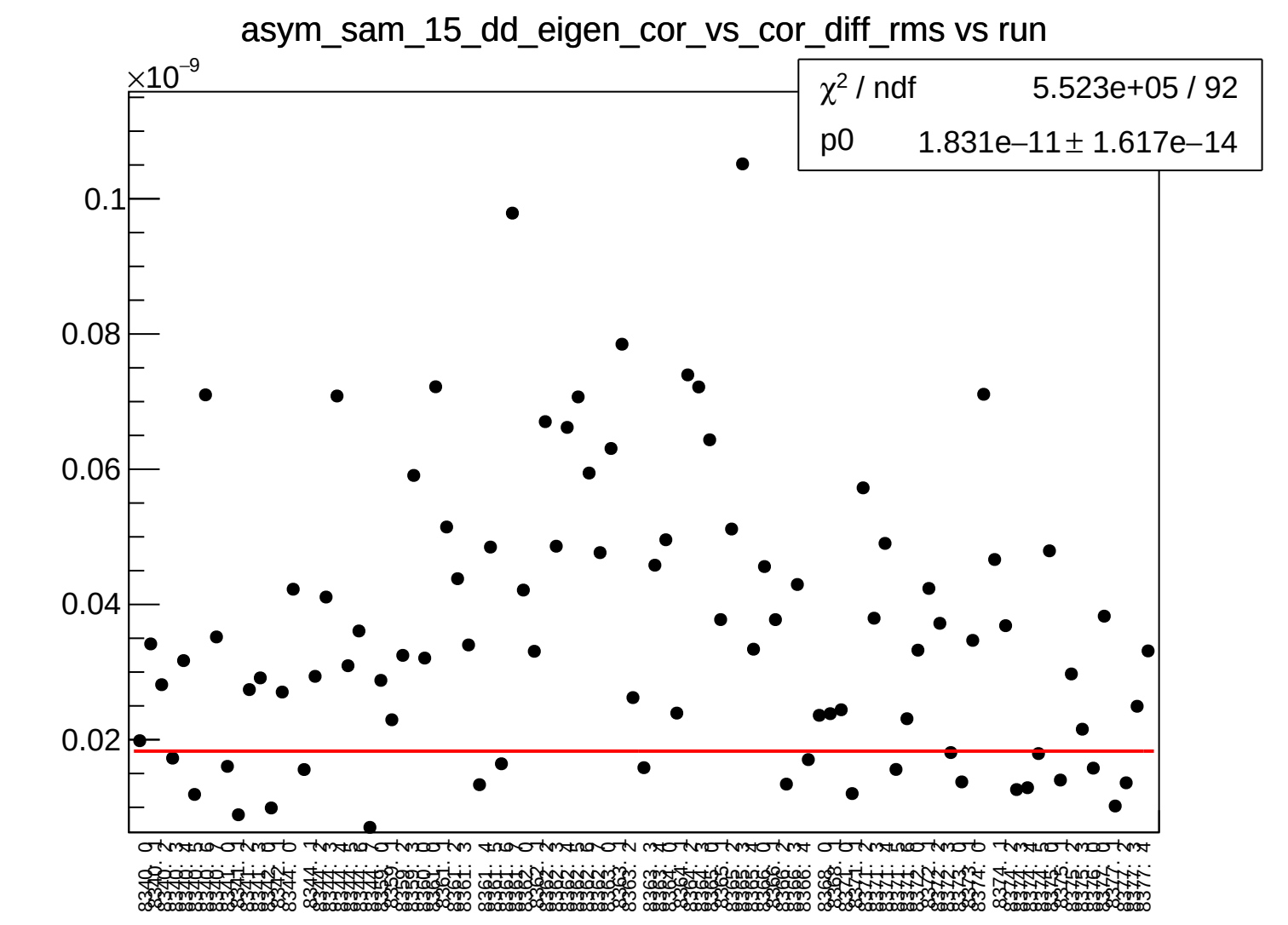

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.53 / 92
p0 0.1364 ± 0.02682
pull
Entries 93
Mean −119.3
Std Dev 0

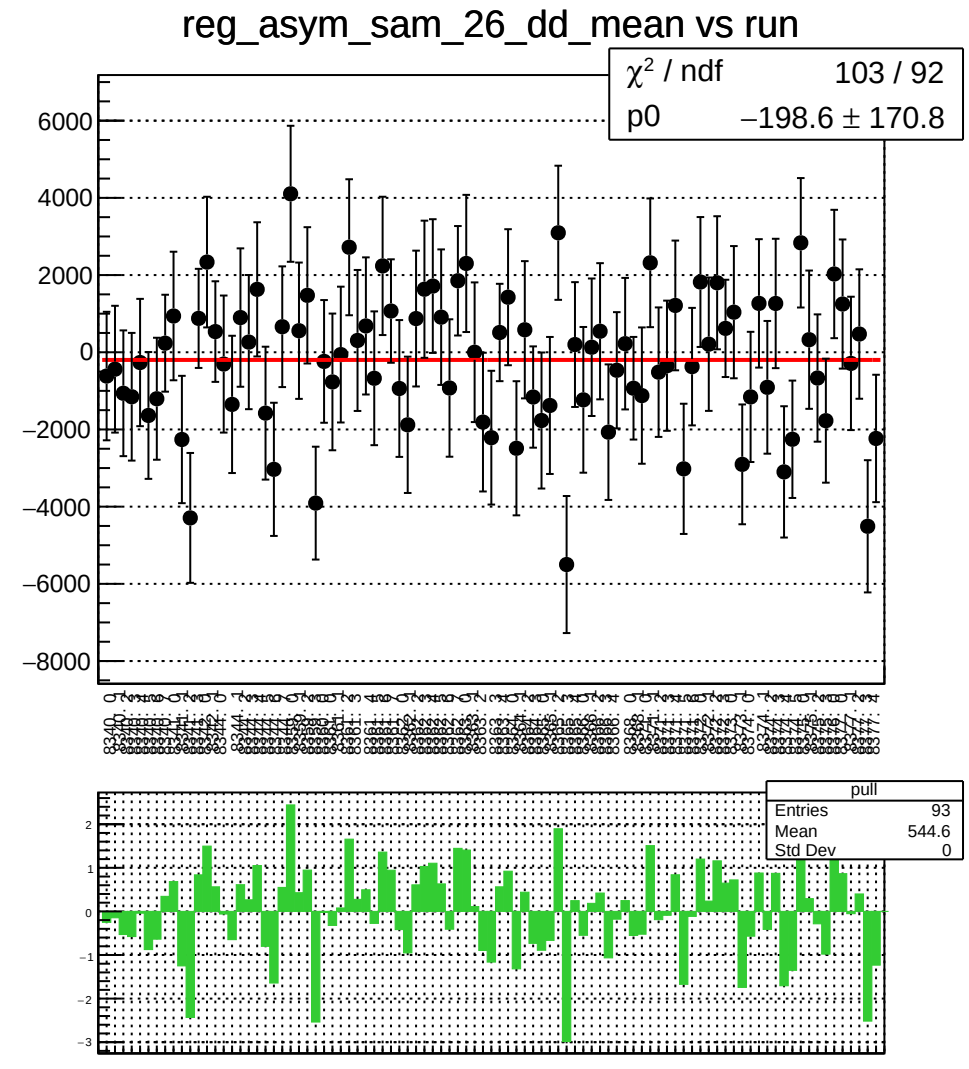

pull1D
Entries 93
Mean 0.02023
Std Dev 0.9755

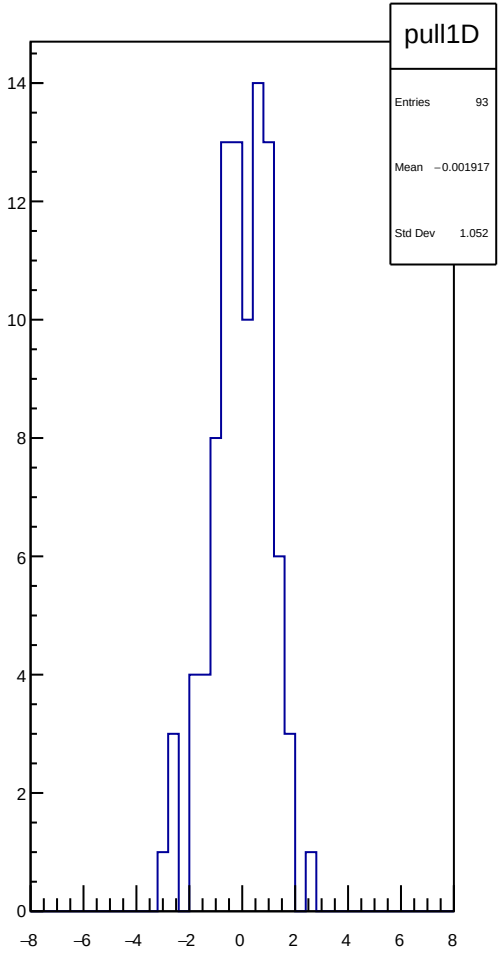

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.252e+04 / 92
p0 25.59 ± 0.01896
34
32
30
28
26
24
22

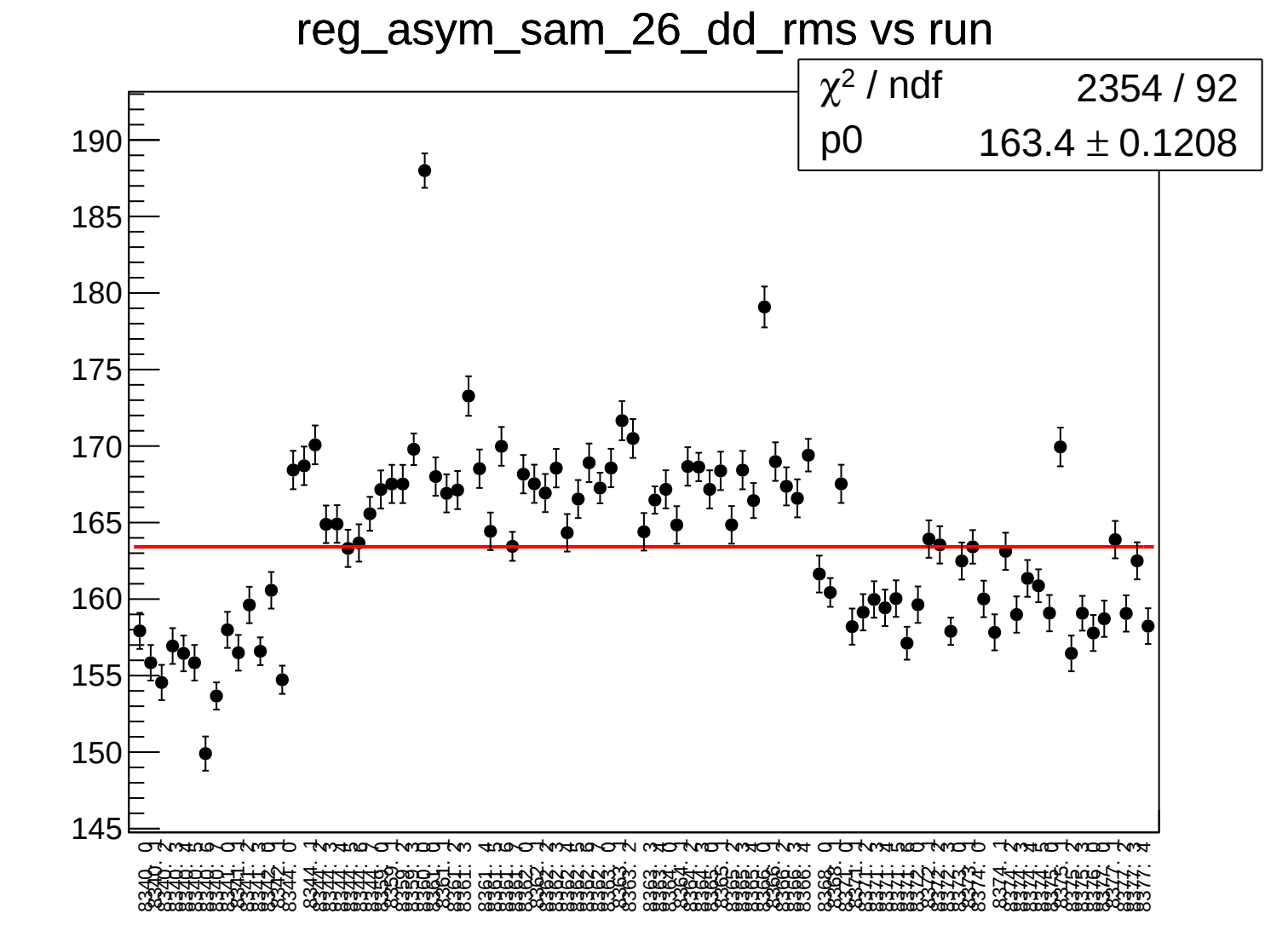

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.01 / 92
p0 4.749e−14 ± 2.287e−14
pull
Entries 93
Mean 32.92
Std Dev 25.81

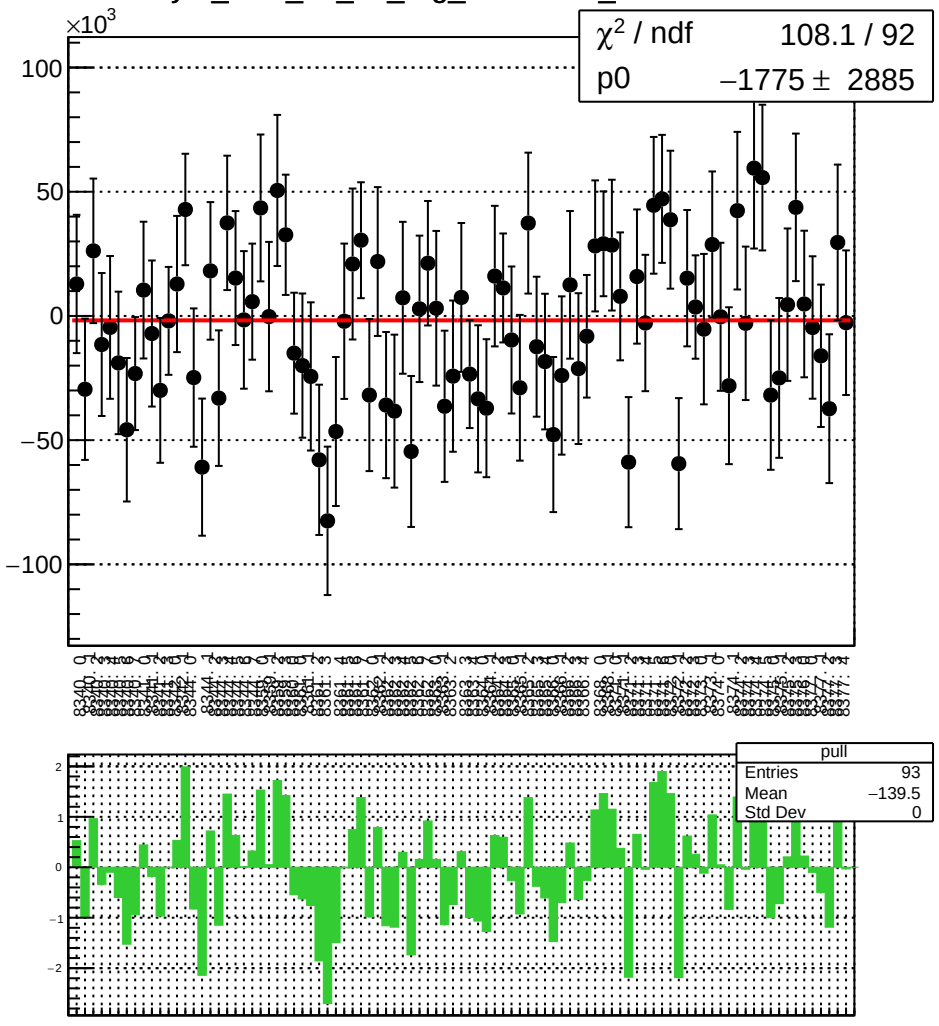

pull1D
Entries 93
Mean 0.06253
Std Dev 1.03

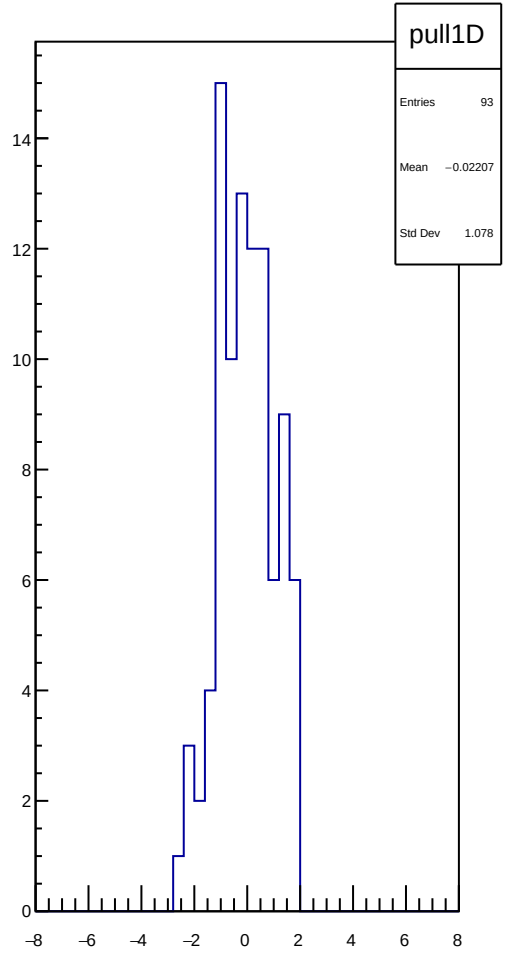

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.523e+05 / 92
p0 1.831e−11 ± 1.617e−14
0.1
0.08
0.06
0.04
0.02

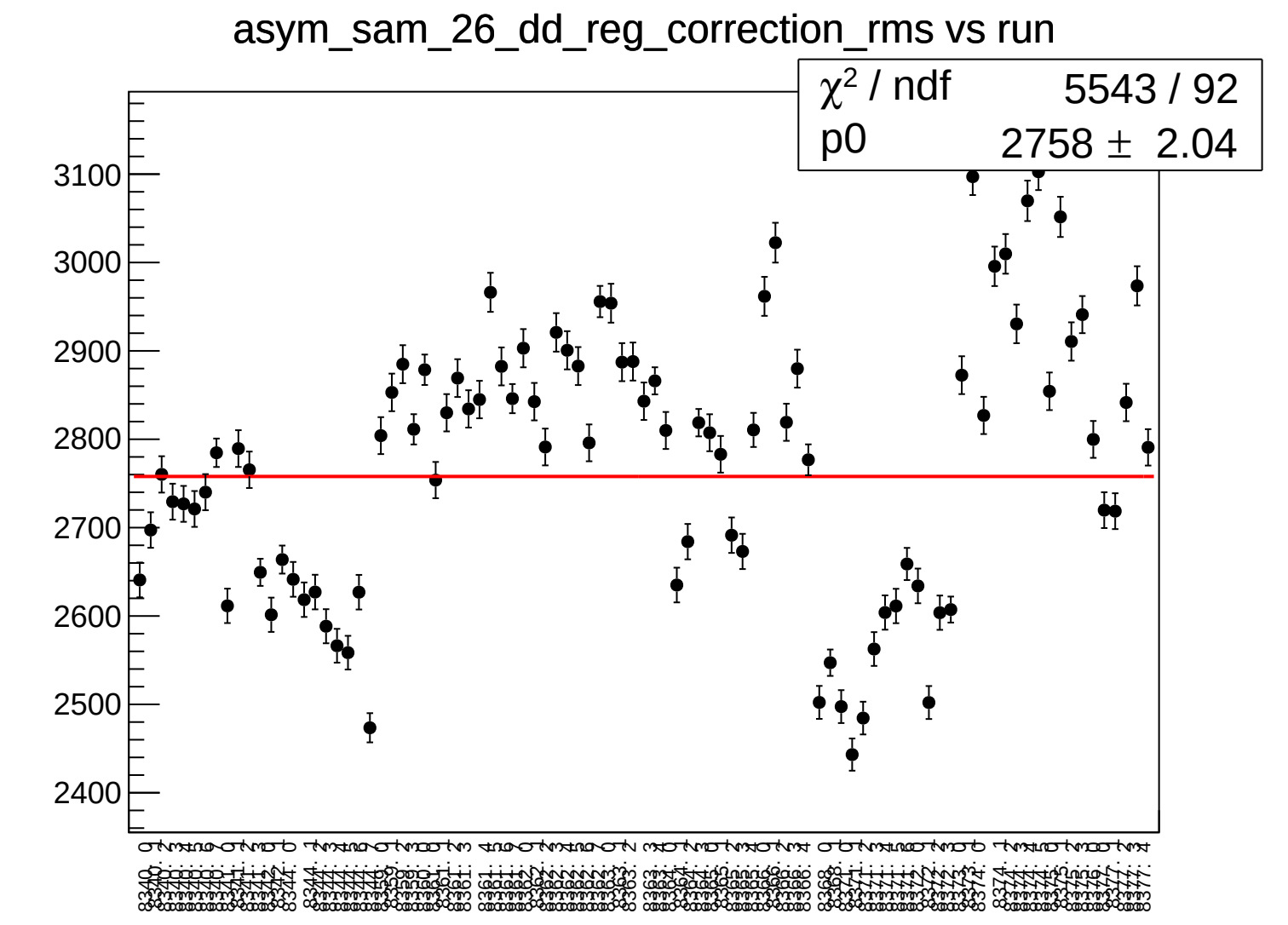

reg_asym_sam_26_dd_mean vs run
χ² / ndf 103 / 92
p0 −198.6 ± 170.8
pull
Entries 93
Mean 544.6
Std Dev 0

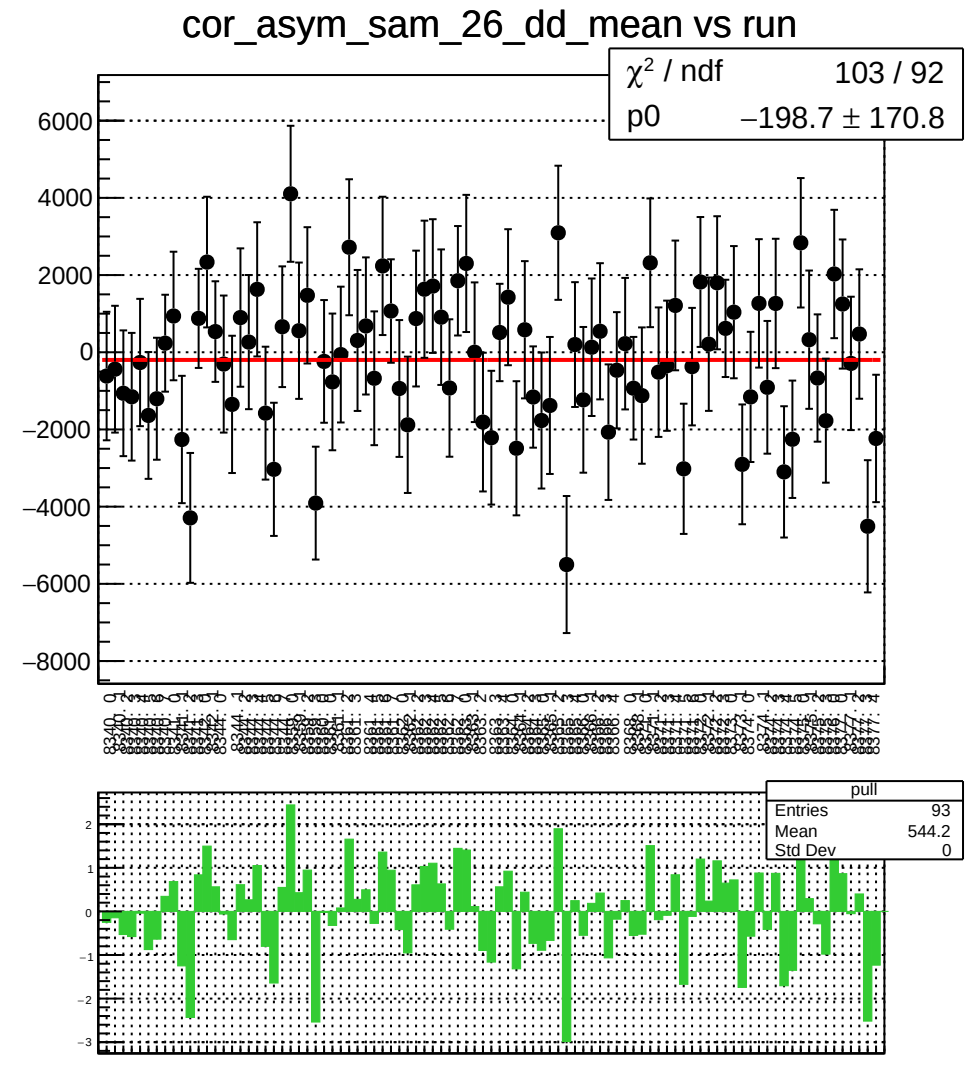

pull1D
Entries 93
Mean −0.001917
Std Dev 1.052

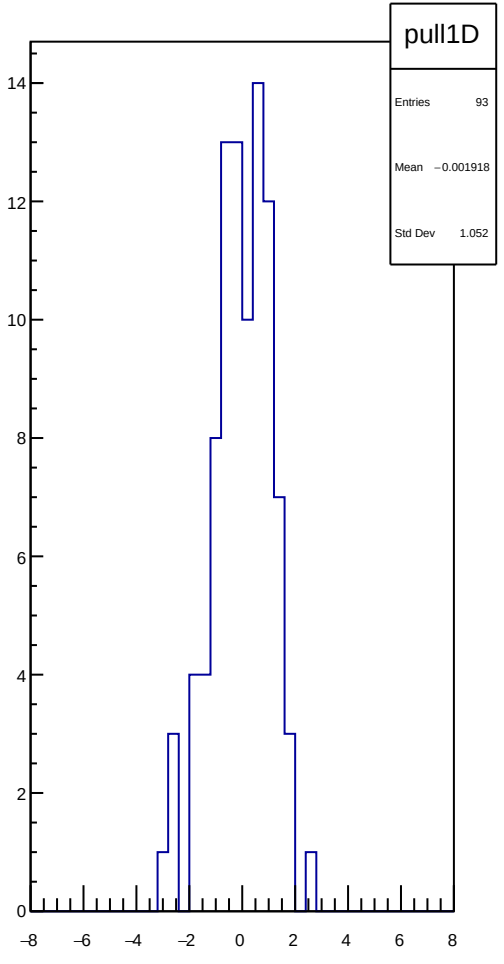

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2354 / 92
p0 163.4 ± 0.1208
190
185
180
175
170
165
160
155
150
145

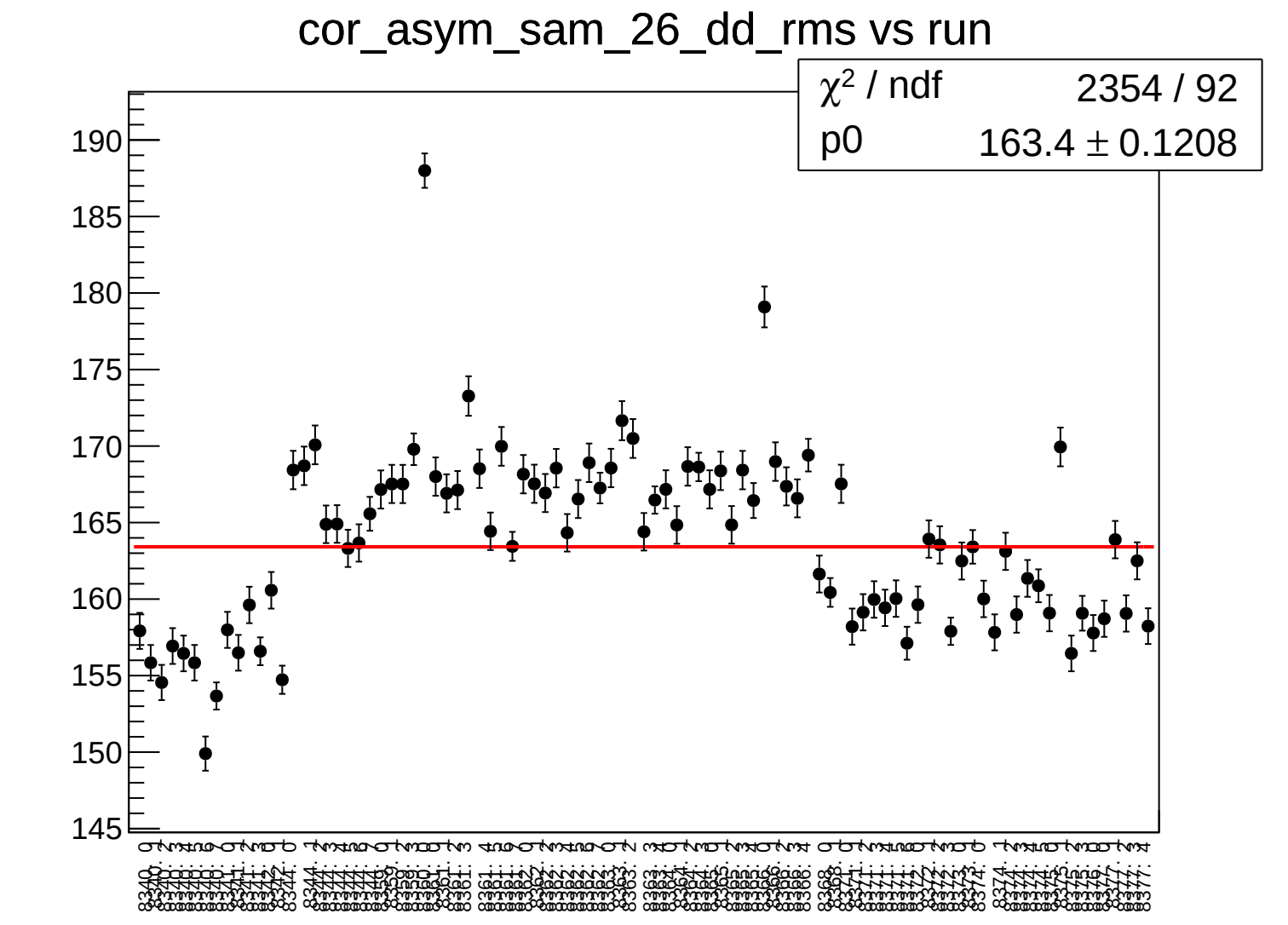

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 108.1 / 92
p0 −1775 ± 2885
100
50
0
−50
−100
pull
Entries 93
Mean −139.5
Std Dev 0
2
1
0
−1
−2

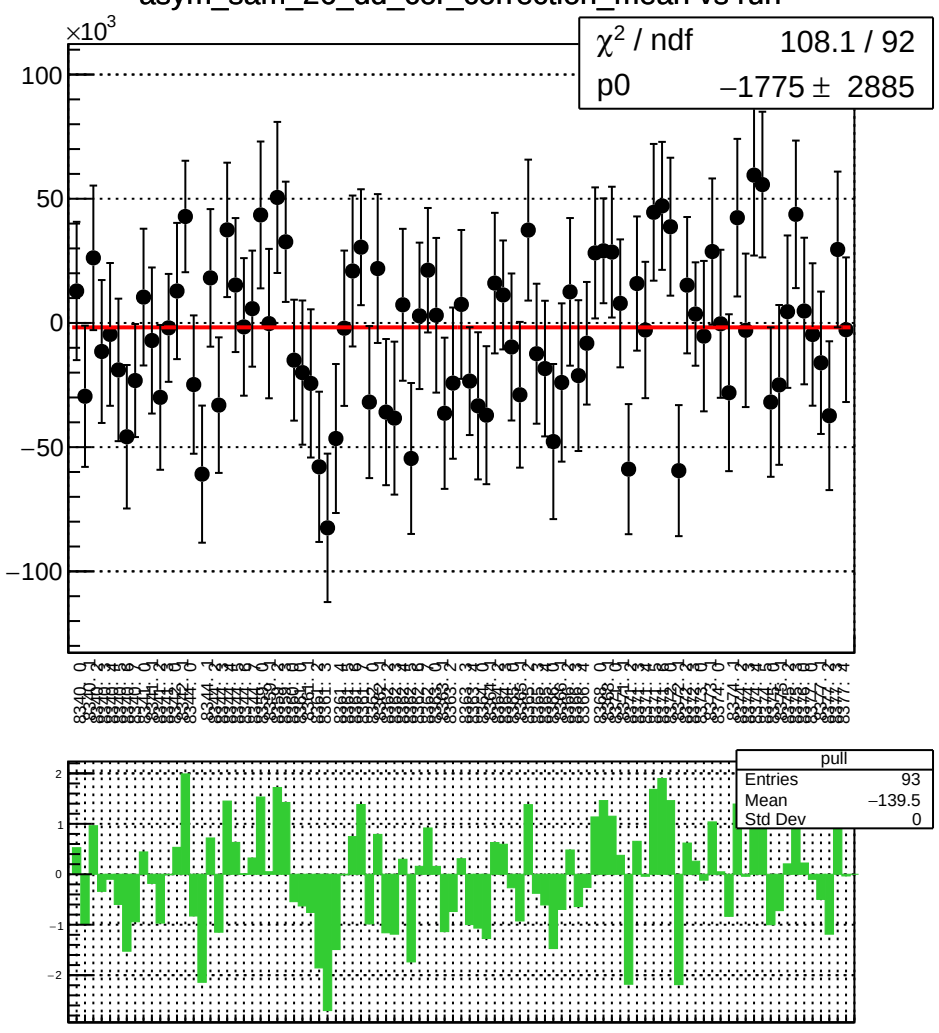

pull1D
Entries 93
Mean −0.02207
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

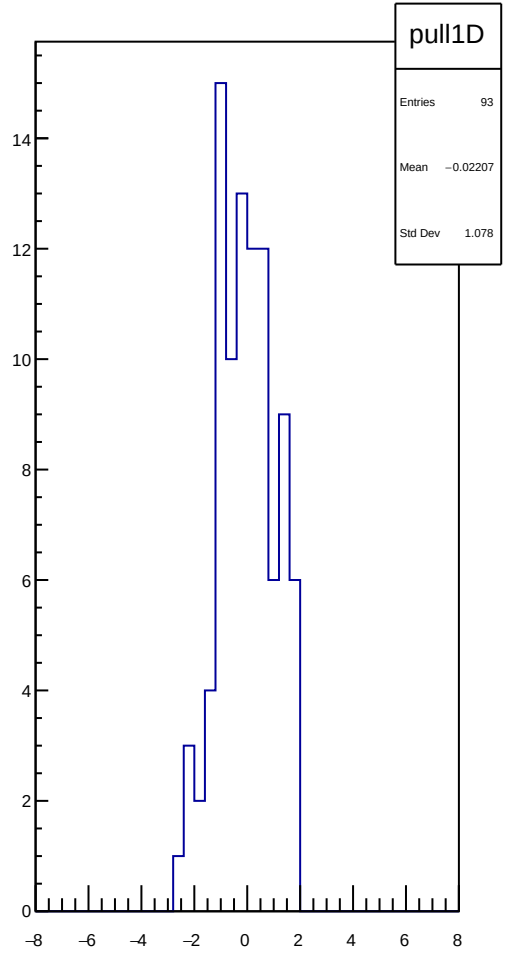

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5543 / 92
p0 2758 ± 2.04
3100
3000
2900
2800
2700
2600
2500
2400

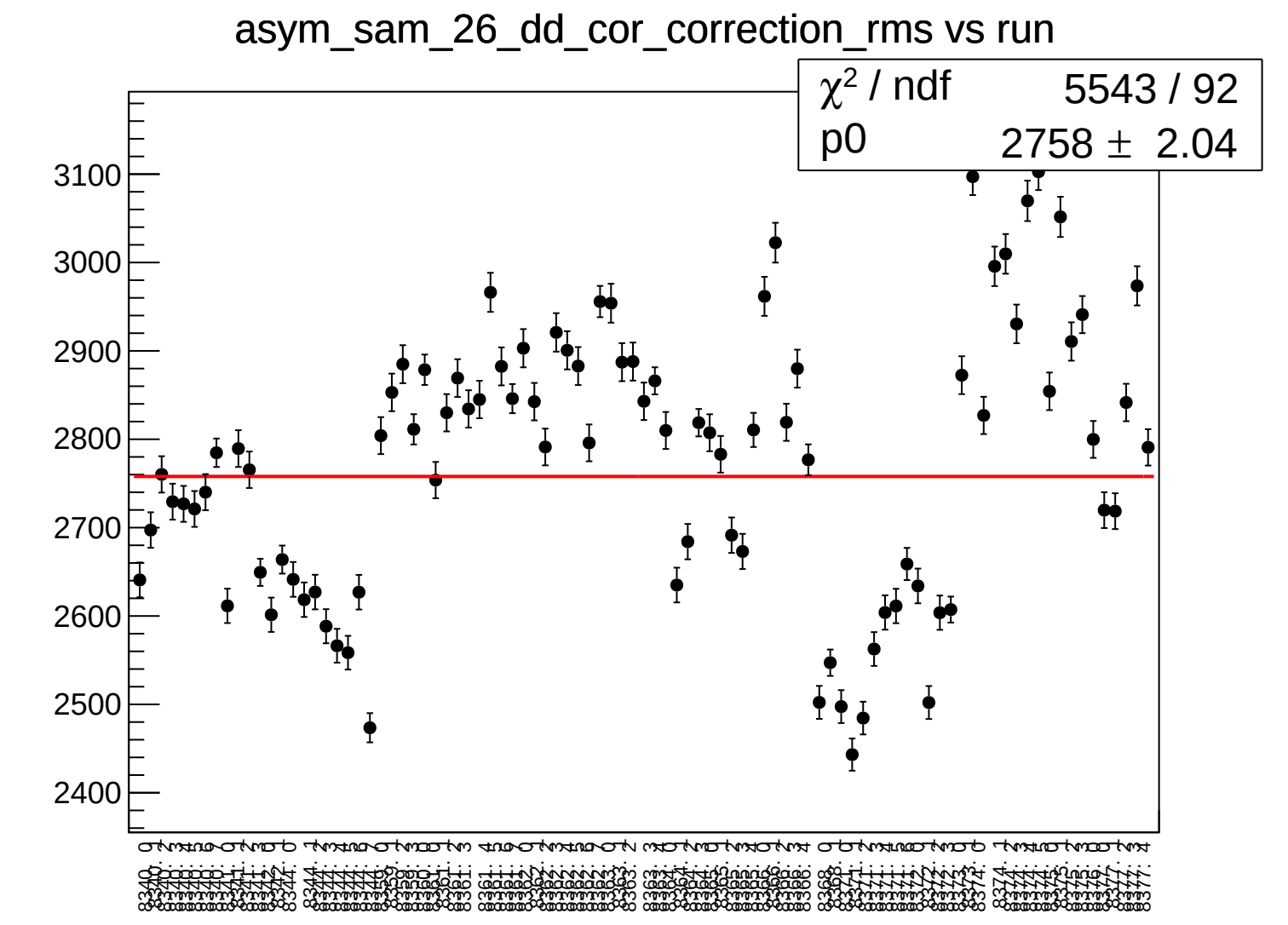

cor_asym_sam_26_dd_mean vs run
χ² / ndf 103 / 92
p0 −198.7 ± 170.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 544.2
Std Dev 0
2
1
0
−1
−2
−3

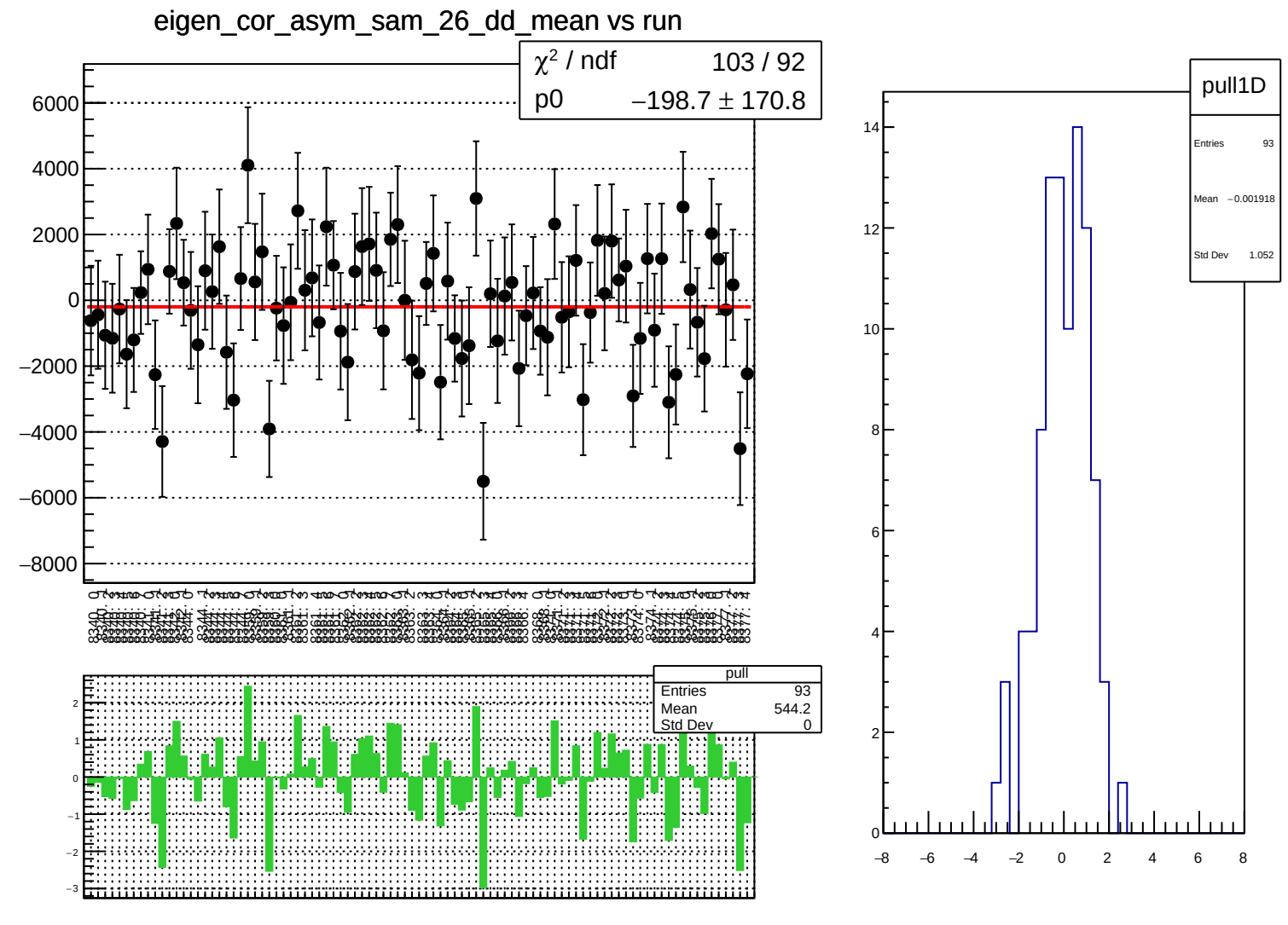

pull1D
Entries 93
Mean −0.001918
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

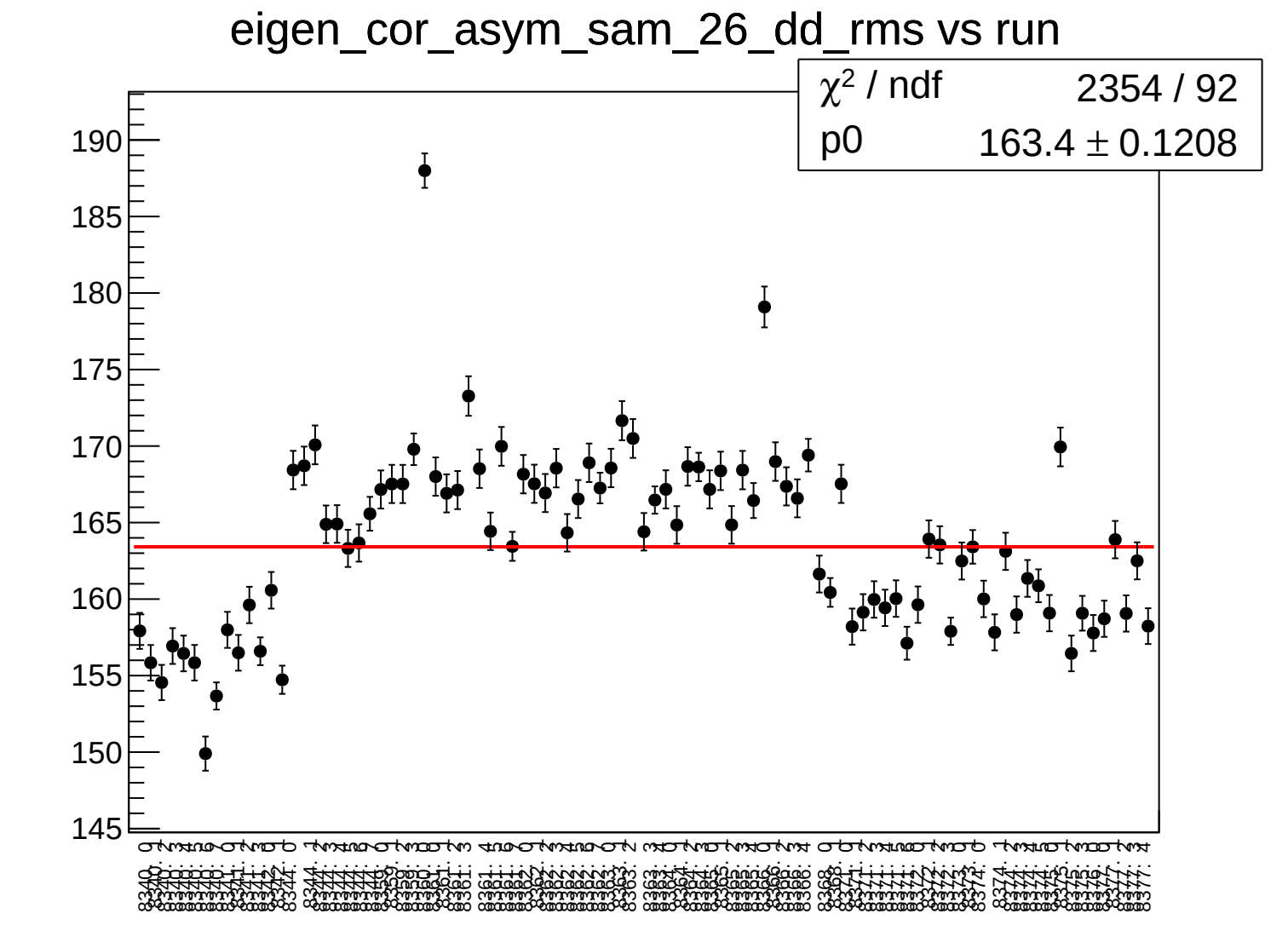

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2354 / 92
p0 163.4 ± 0.1208
190
185
180
175
170
165
160
155
150
145

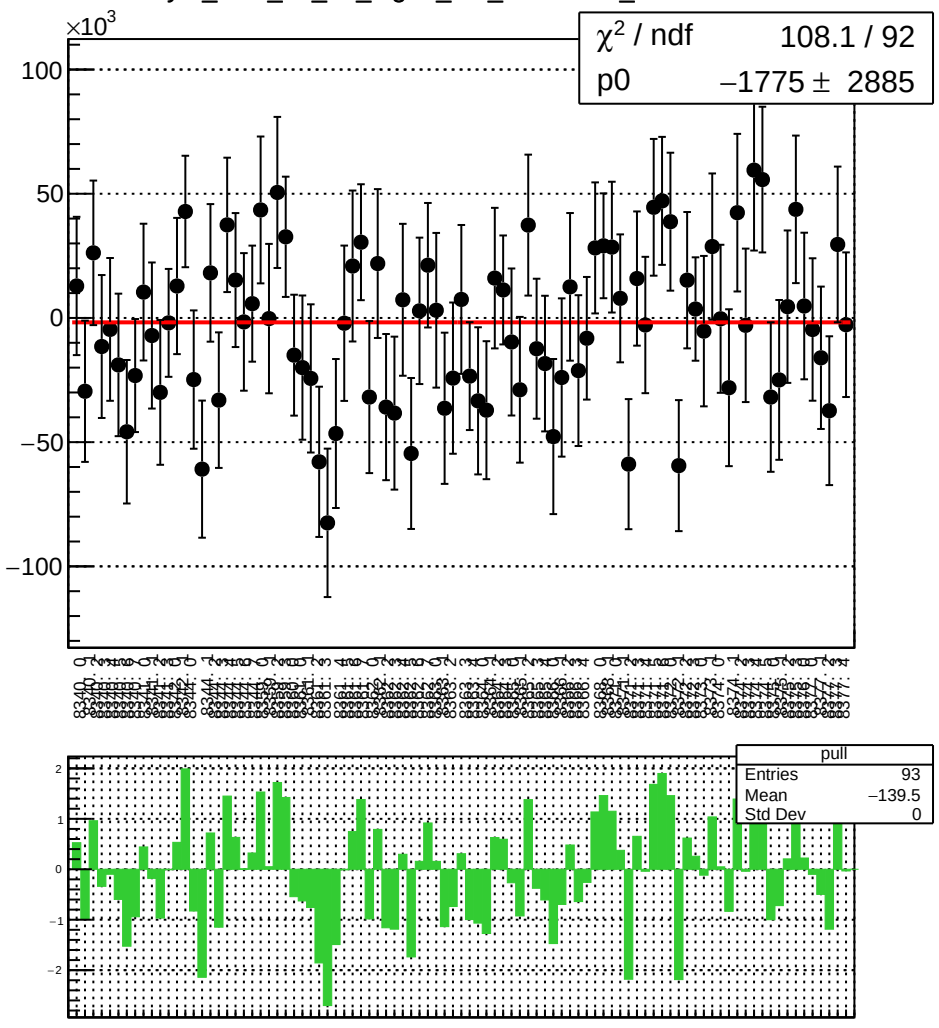

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 108.1 / 92
p0 −1775 ± 2885
100
50
0
−50
−100
pull
Entries 93
Mean −139.5
Std Dev 0
2
1
0
−1
−2

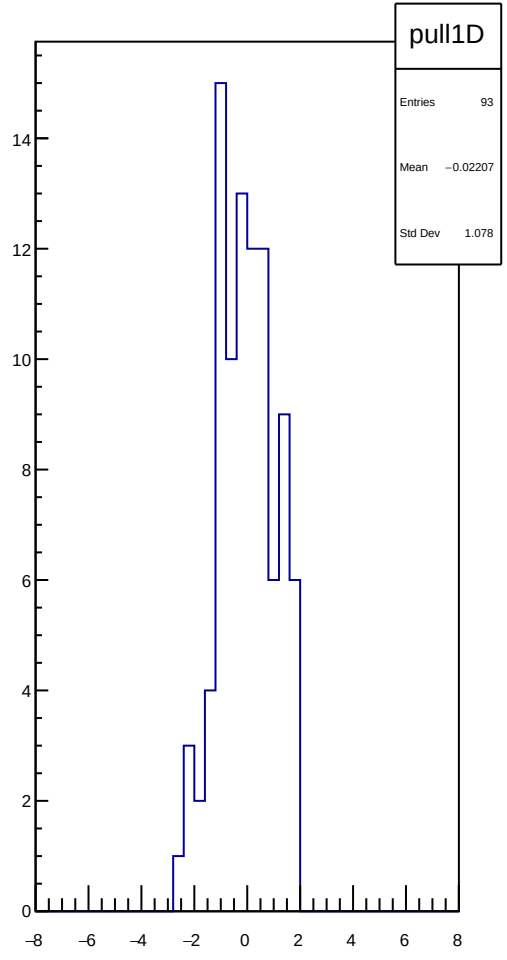

pull1D
Entries 93
Mean −0.02207
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

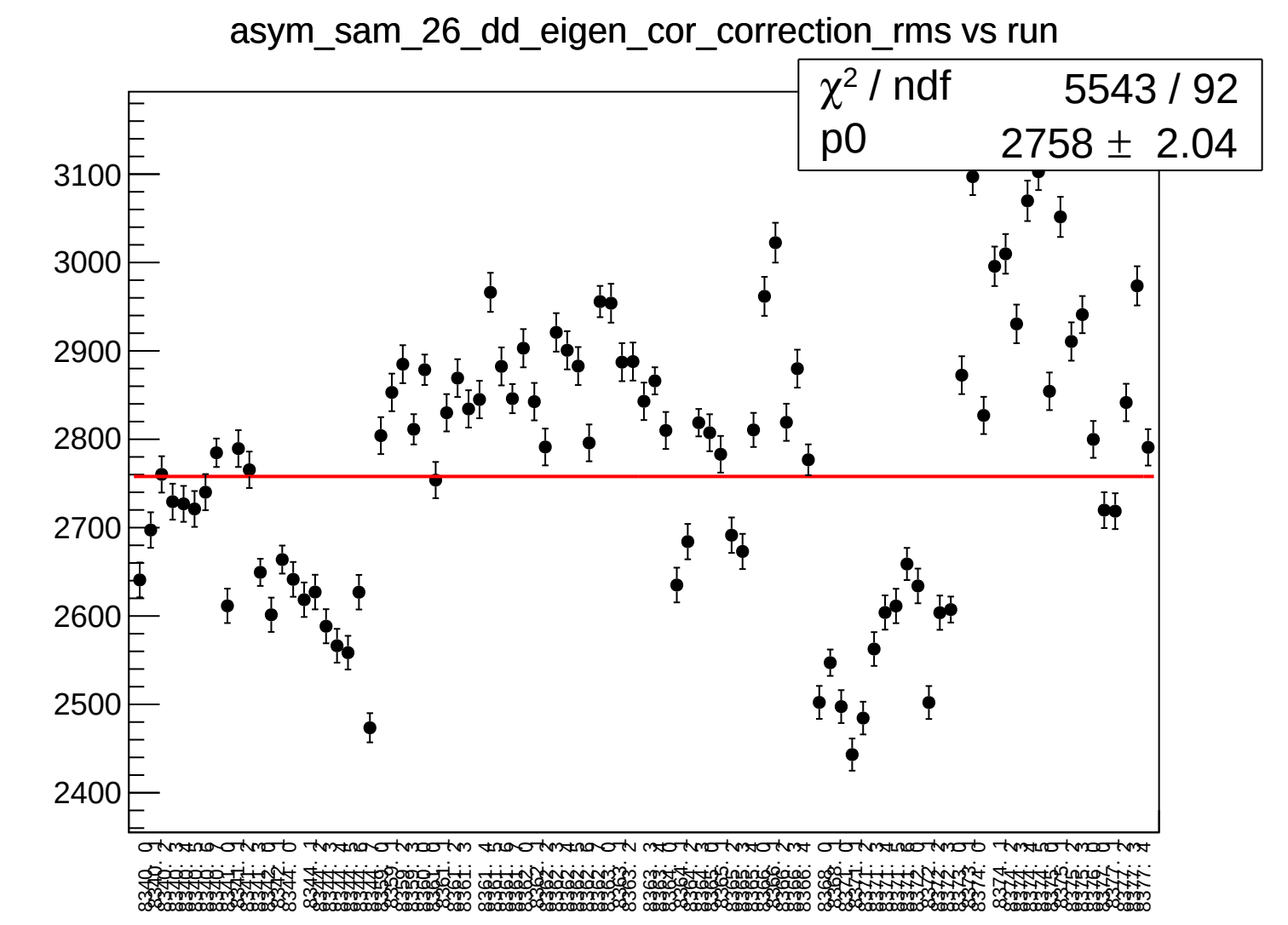

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5543 / 92
p0 2758 ± 2.04
3100
3000
2900
2800
2700
2600
2500
2400

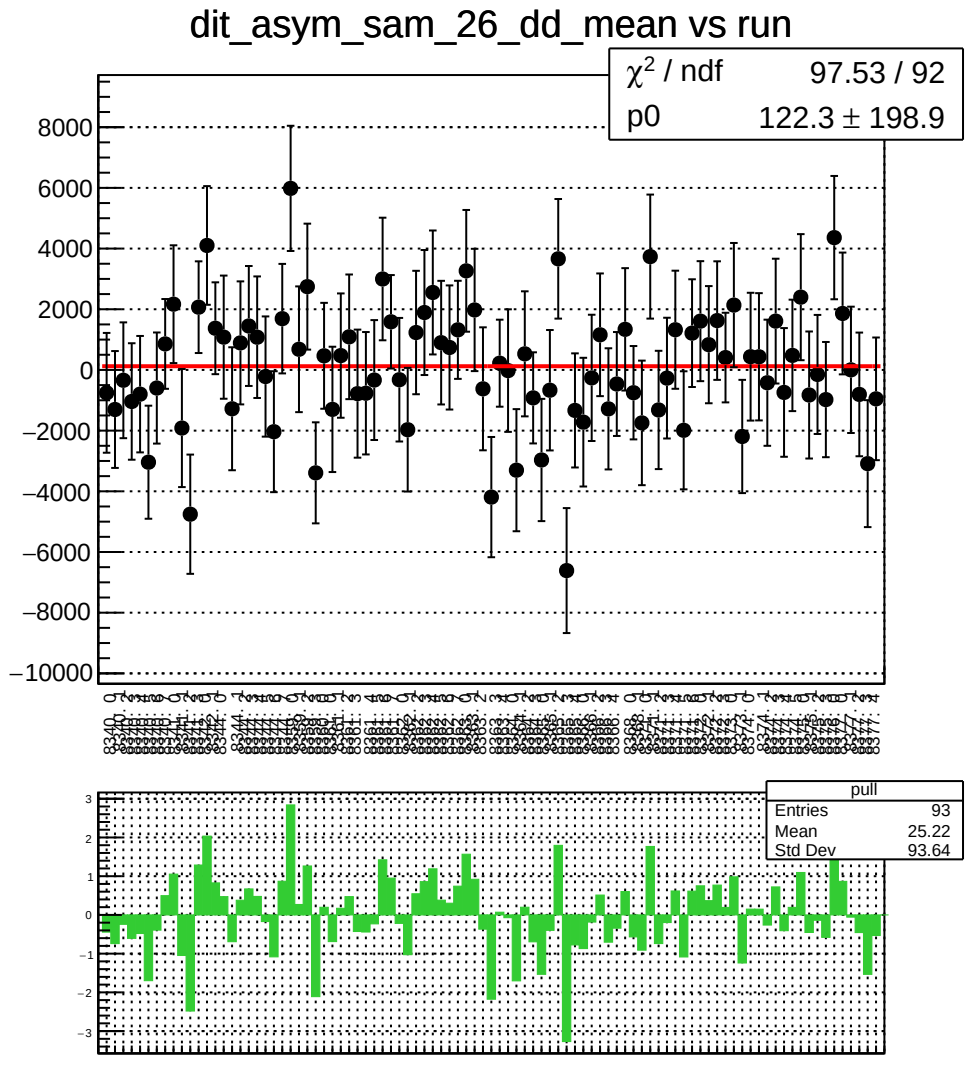

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 103 / 92
p0 −198.7 ± 170.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 544.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.001918
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

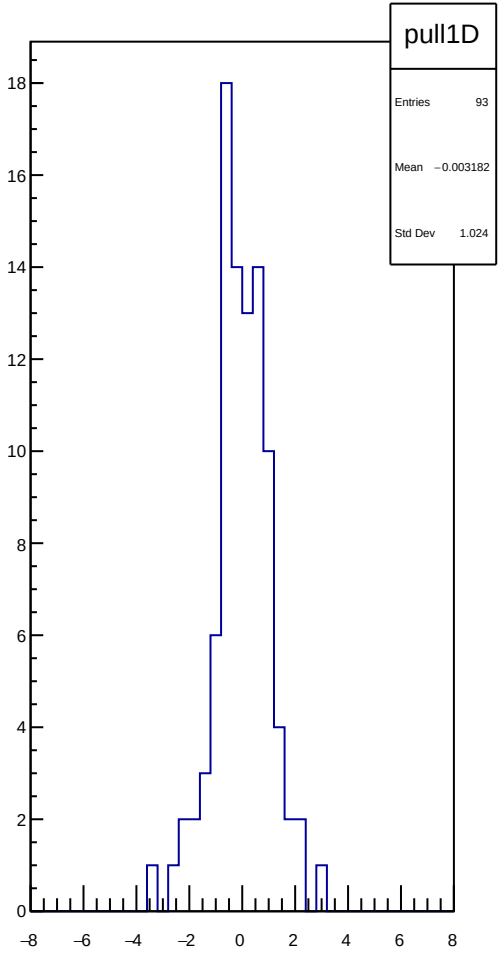

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2354 / 92
p0 163.4 ± 0.1208
190
185
180
175
170
165
160
155
150
145

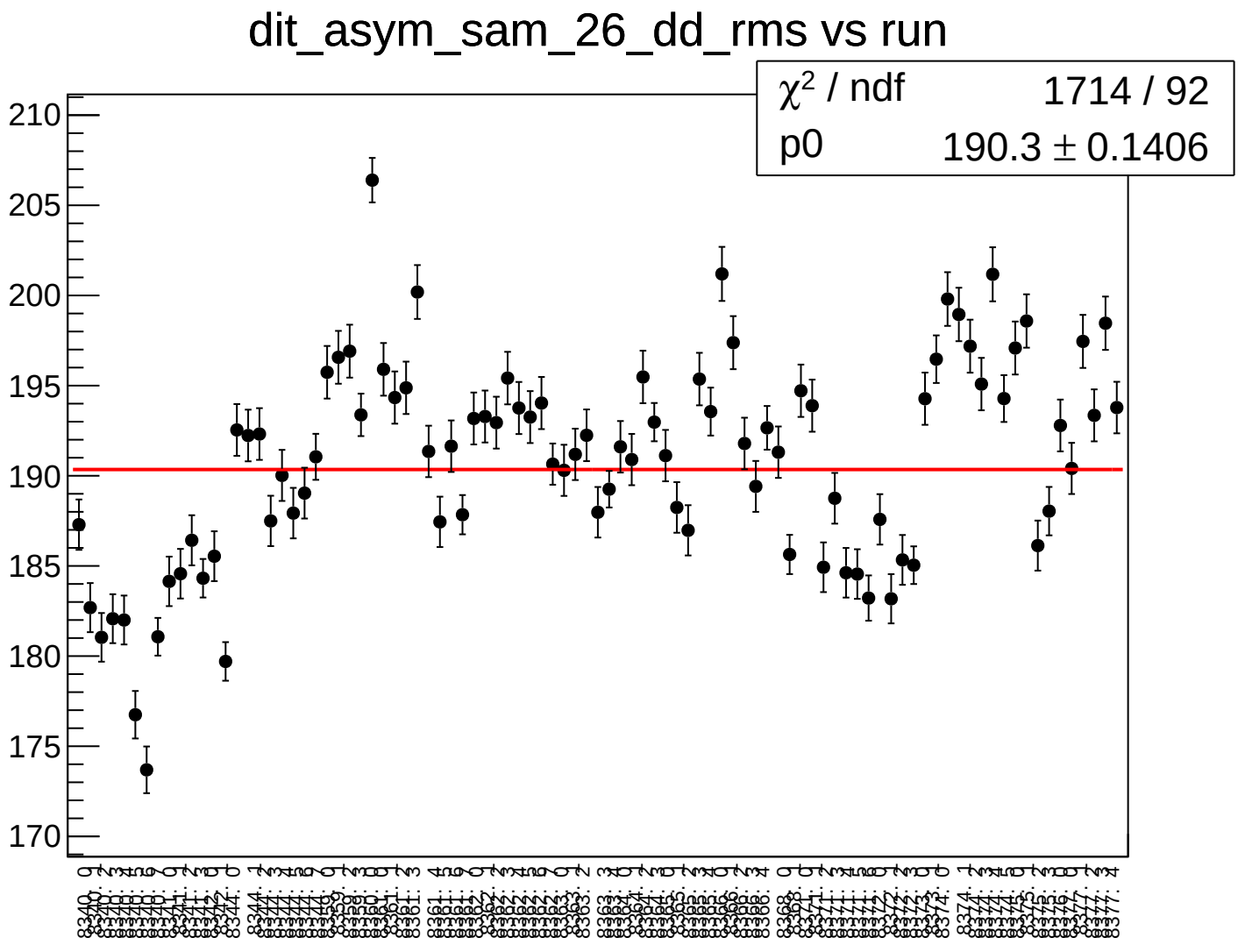

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.1 / 92
p0 −1775 ± 2885
100
50
0
−50
−100
pull
Entries 93
Mean −139.5
Std Dev 0
2
1
0
−1
−2

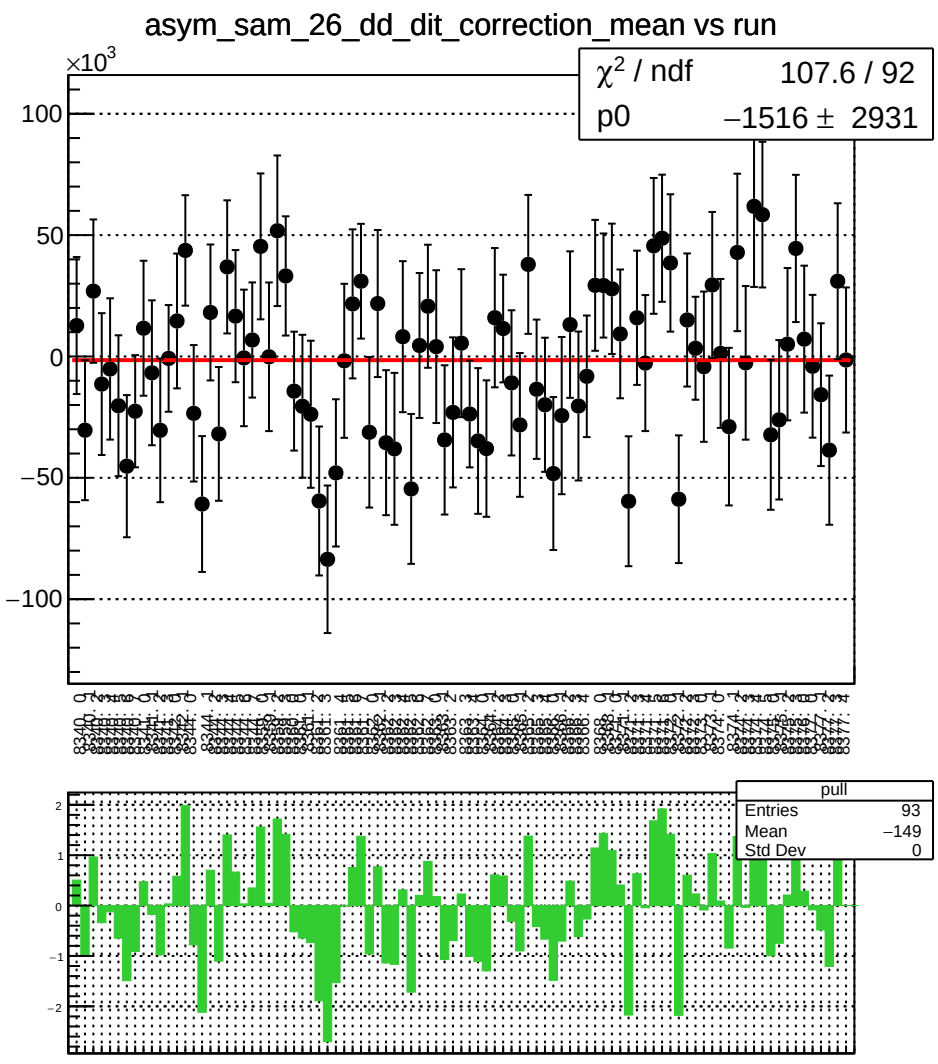

pull1D
Entries 93
Mean −0.02207
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

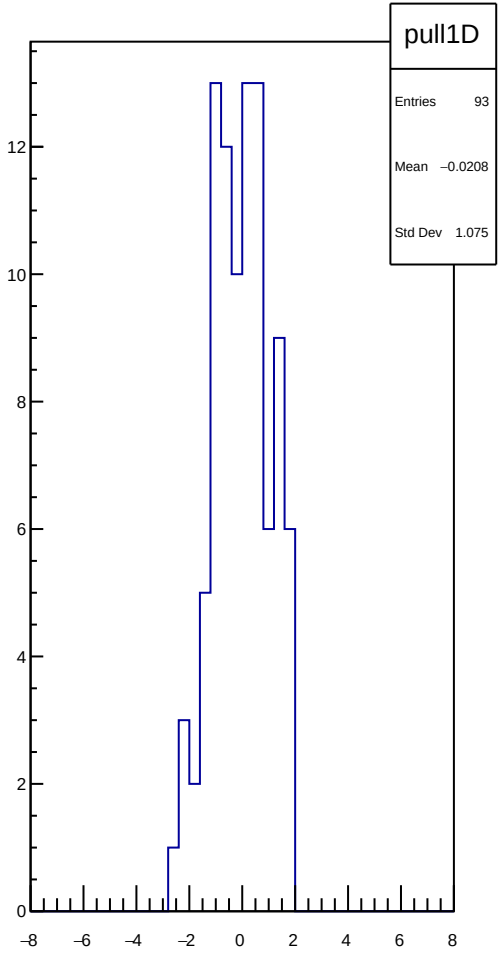

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5543 / 92
p0 2758 ± 2.04
3100
3000
2900
2800
2700
2600
2500
2400

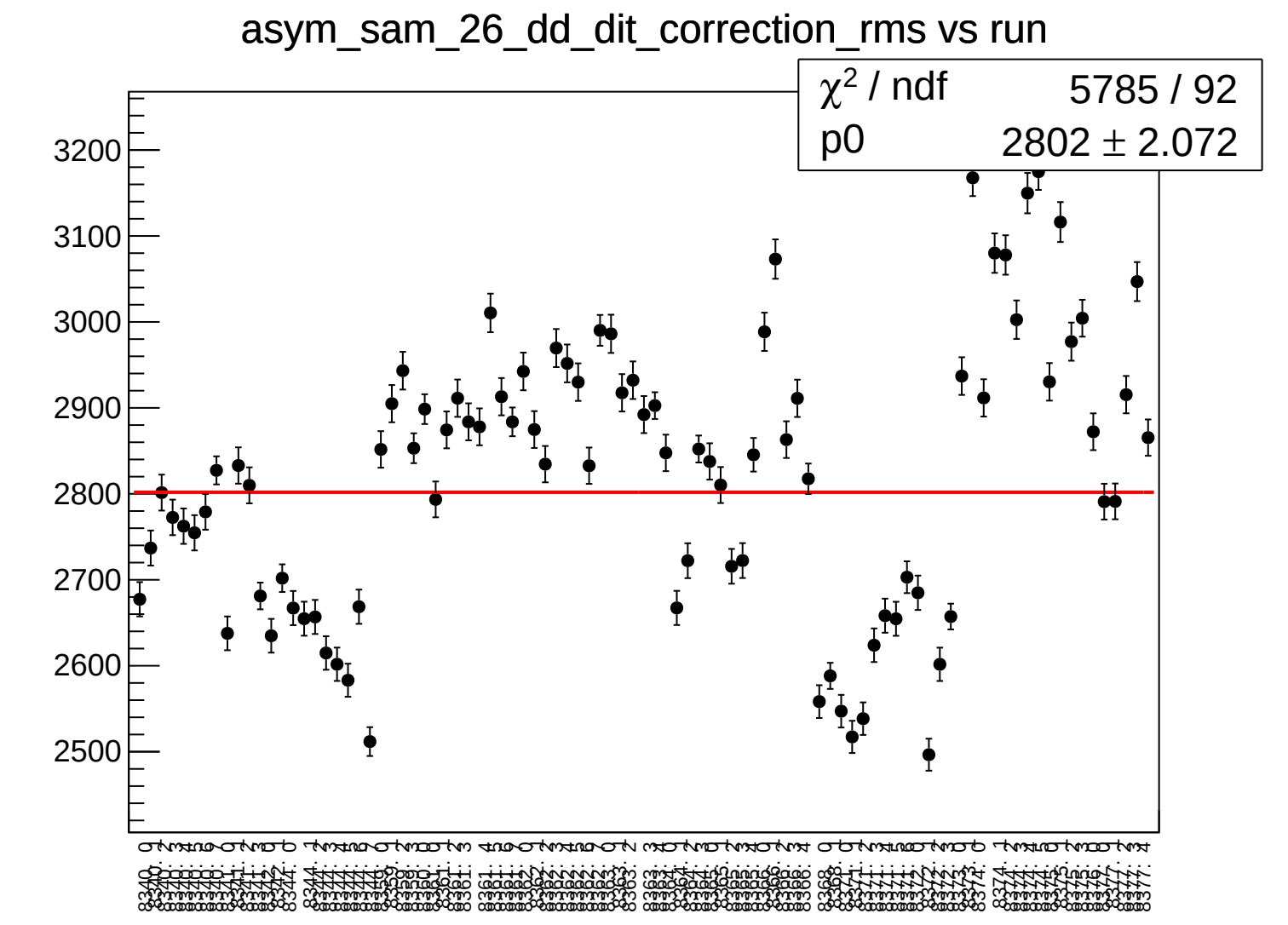

dit_asym_sam_26_dd_mean vs run
χ² / ndf 97.53 / 92
p0 122.3 ± 198.9
pull
Entries 93
Mean 25.22
Std Dev 93.64

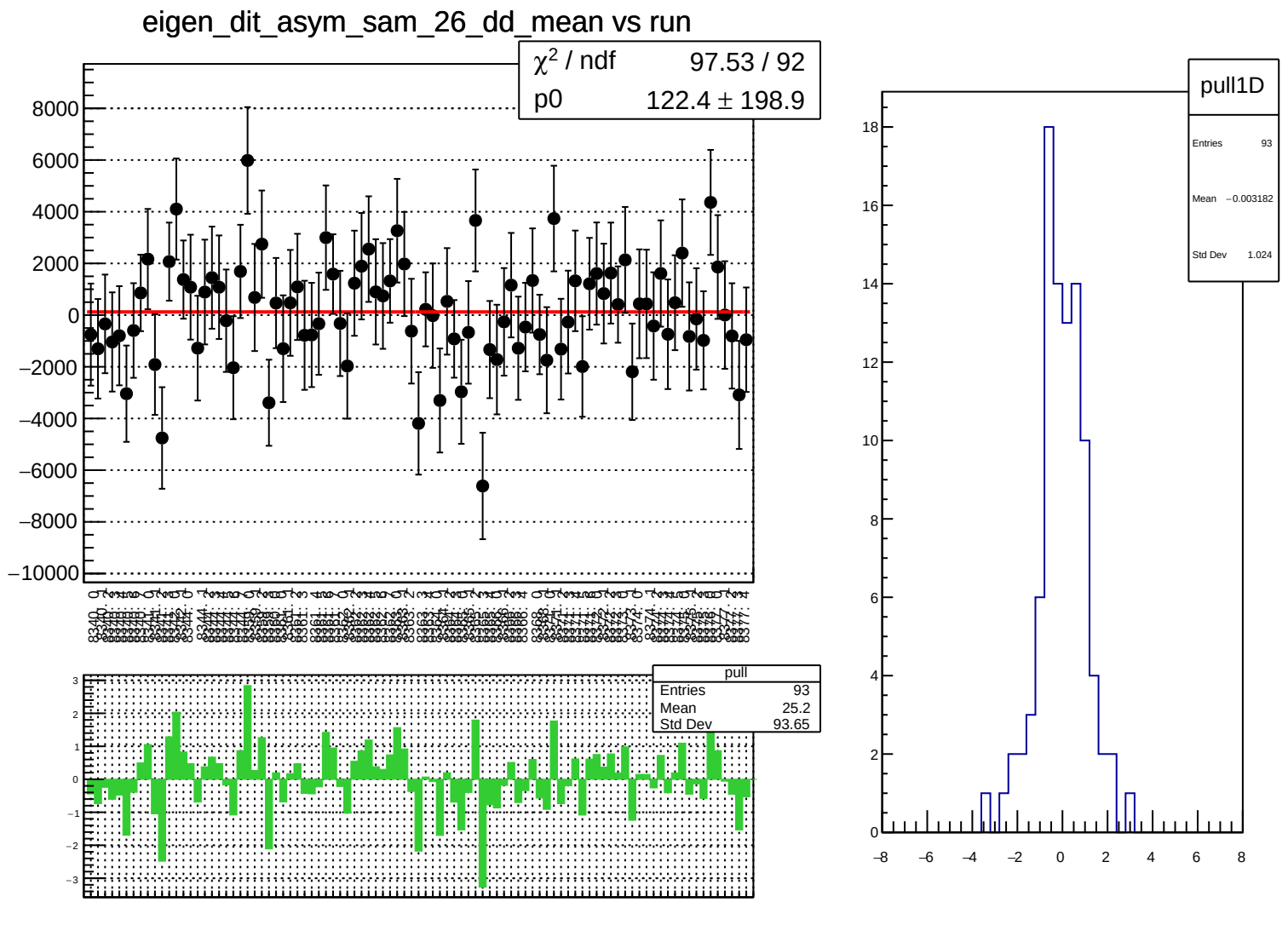

pull1D
Entries 93
Mean −0.003182
Std Dev 1.024

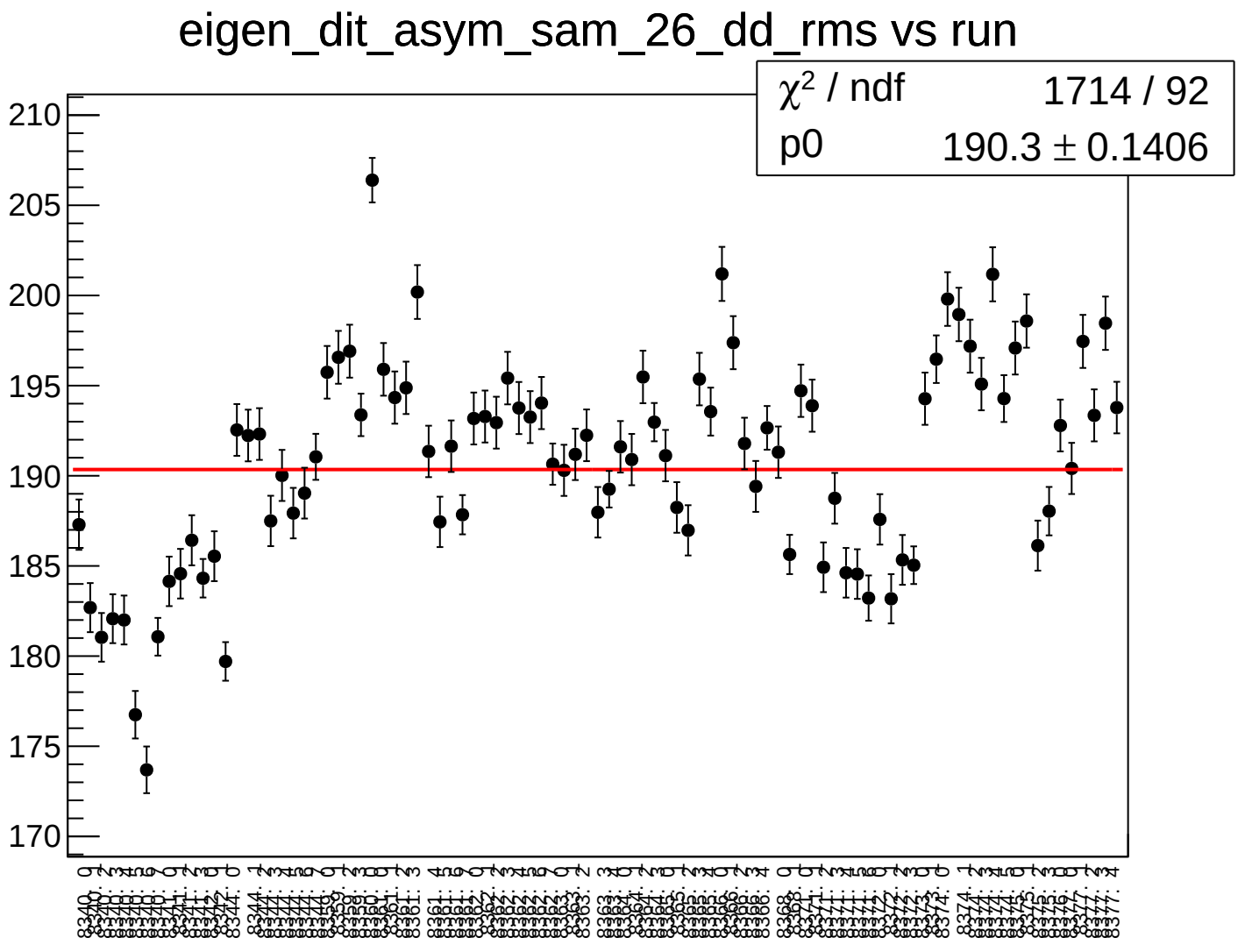

dit_asym_sam_26_dd_rms vs run
χ² / ndf 1714 / 92
p0 190.3 ± 0.1406
210
205
200
195
190
185
180
175
170

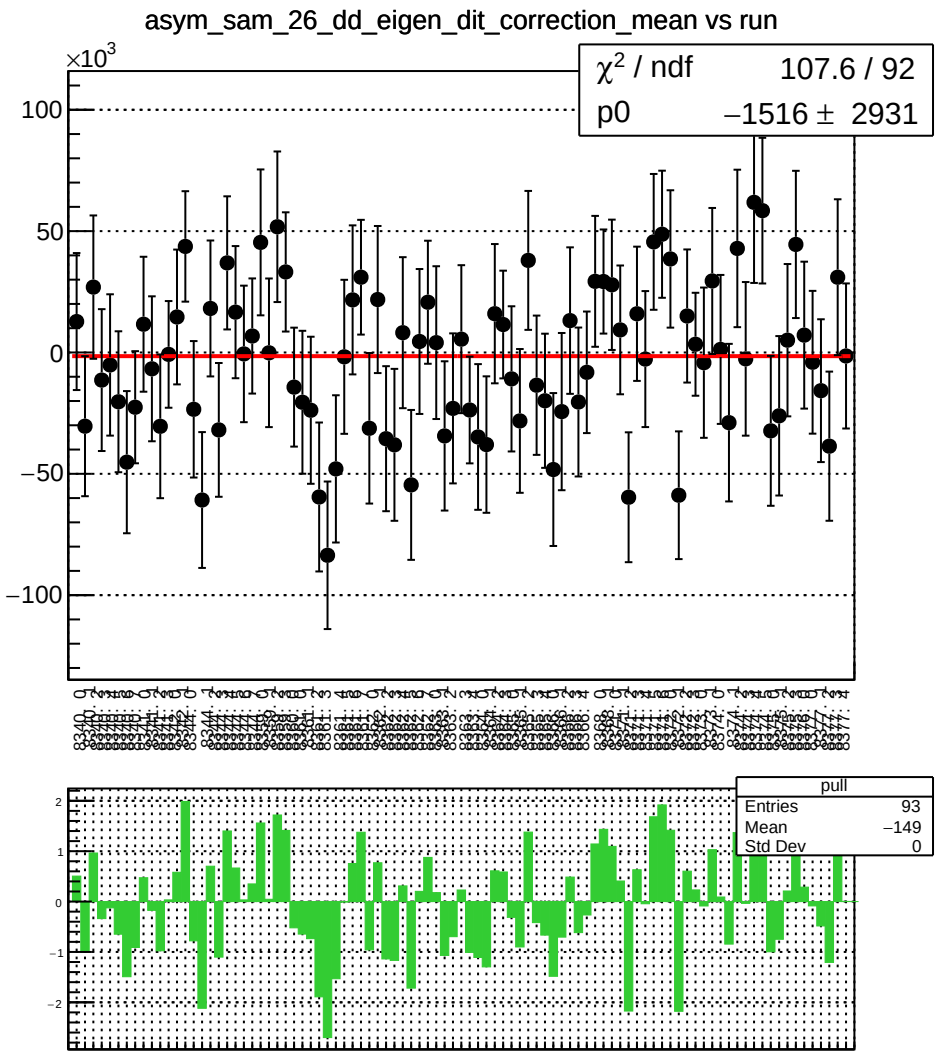

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 107.6 / 92
p0 −1516 ± 2931
100
50
0
−50
−100
pull
Entries 93
Mean −149
Std Dev 0
2
1
0
−1
−2

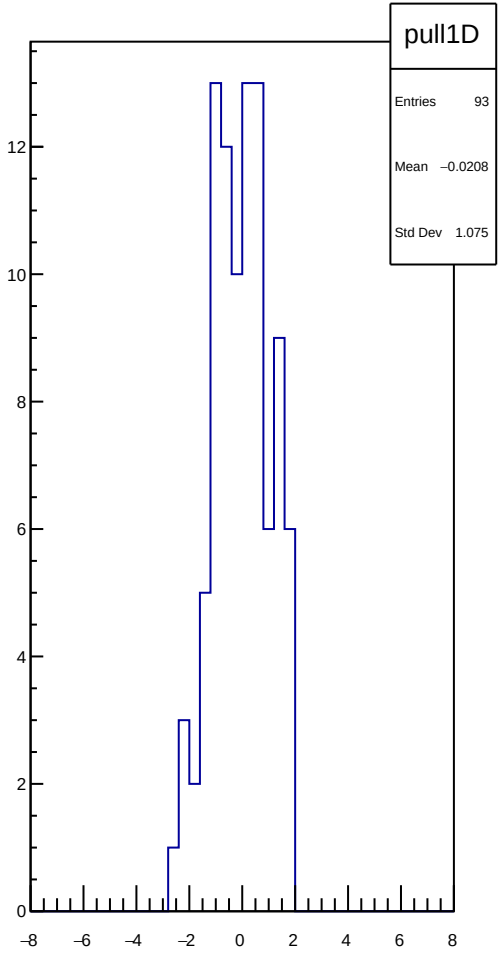

pull1D
Entries 93
Mean −0.0208
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

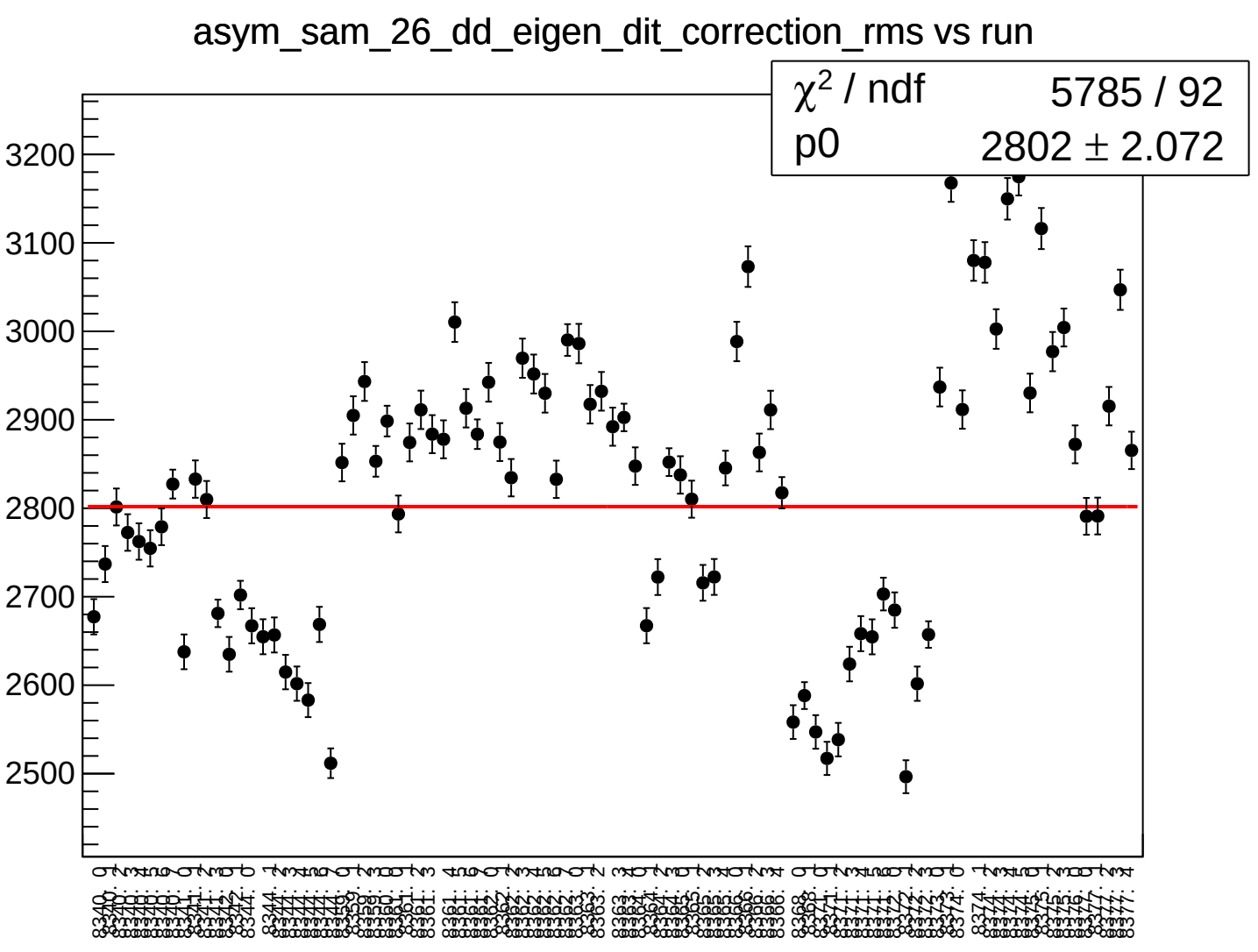

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 5785 / 92
p0 2802 ± 2.072
3200
3100
3000
2900
2800
2700
2600
2500

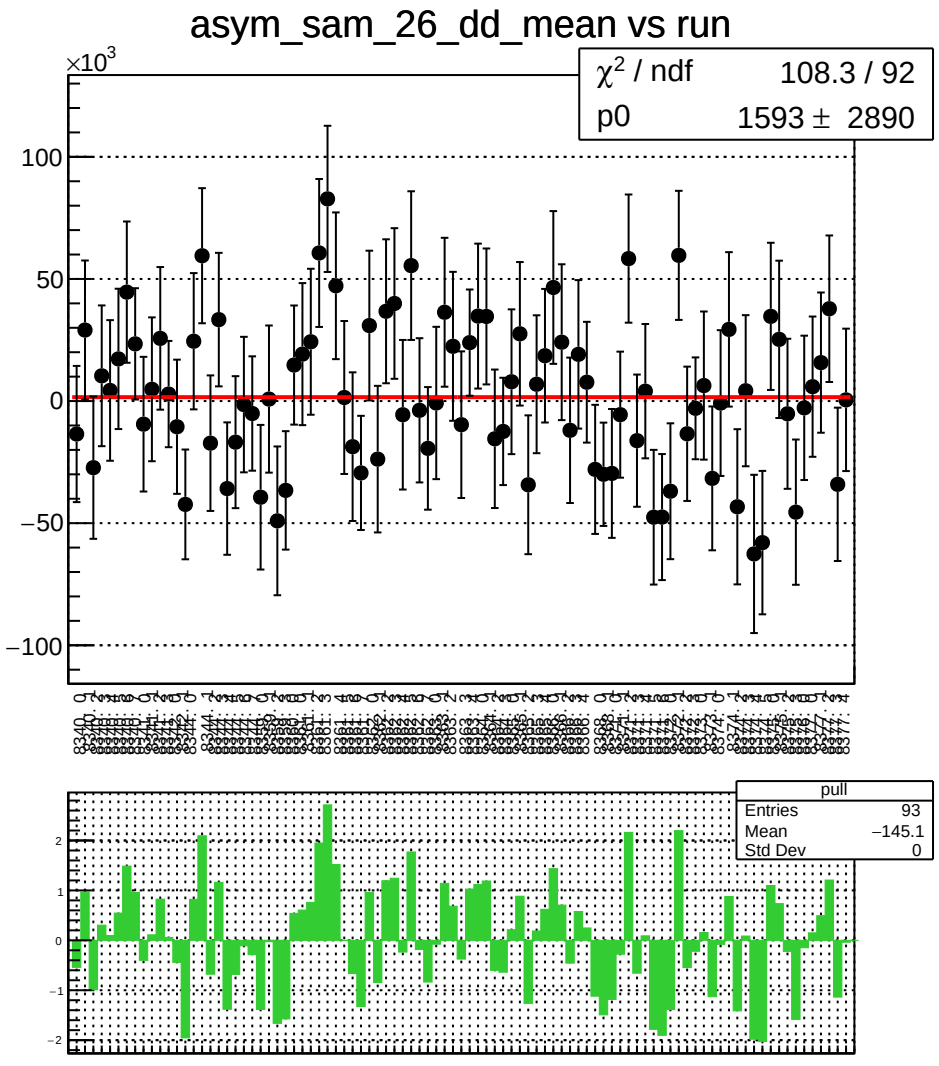

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 97.53 / 92
p0 122.4 ± 198.9
pull
Entries 93
Mean 25.2
Std Dev 93.65
pull1D
Entries 93
Mean −0.003182
Std Dev 1.024

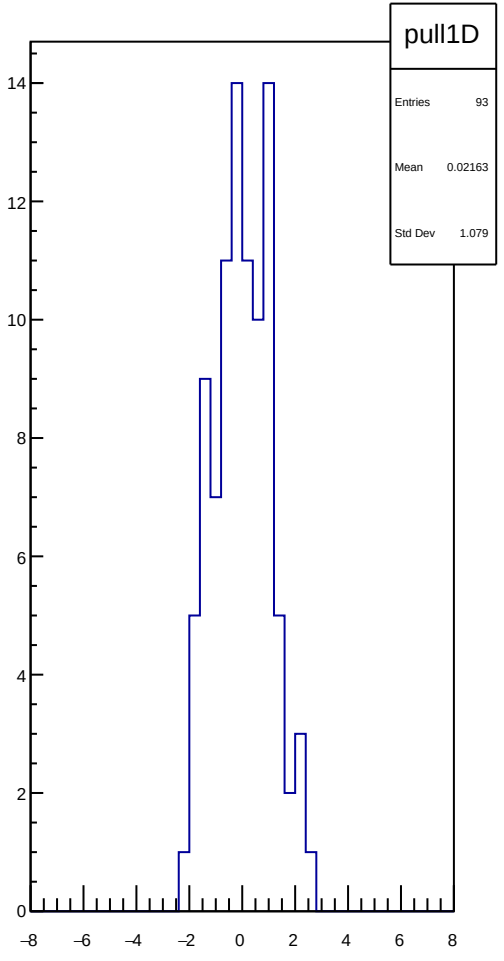

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 1714 / 92
p0 190.3 ± 0.1406
210
205
200
195
190
185
180
175
170

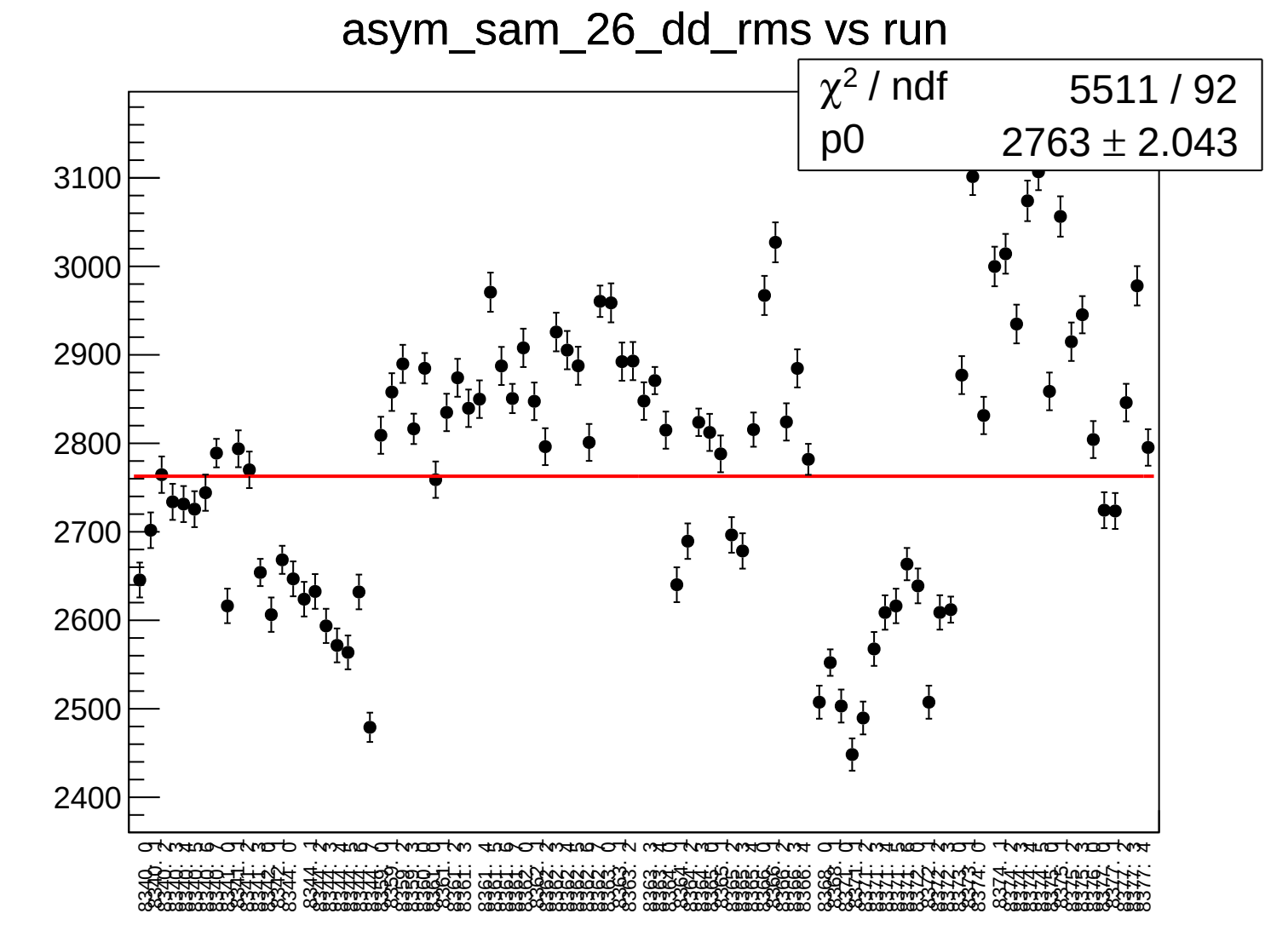

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 107.6 / 92
p0 −1516 ± 2931
100
50
0
−50
−100
pull
Entries 93
Mean −149
Std Dev 0
2
1
0
−1
−2

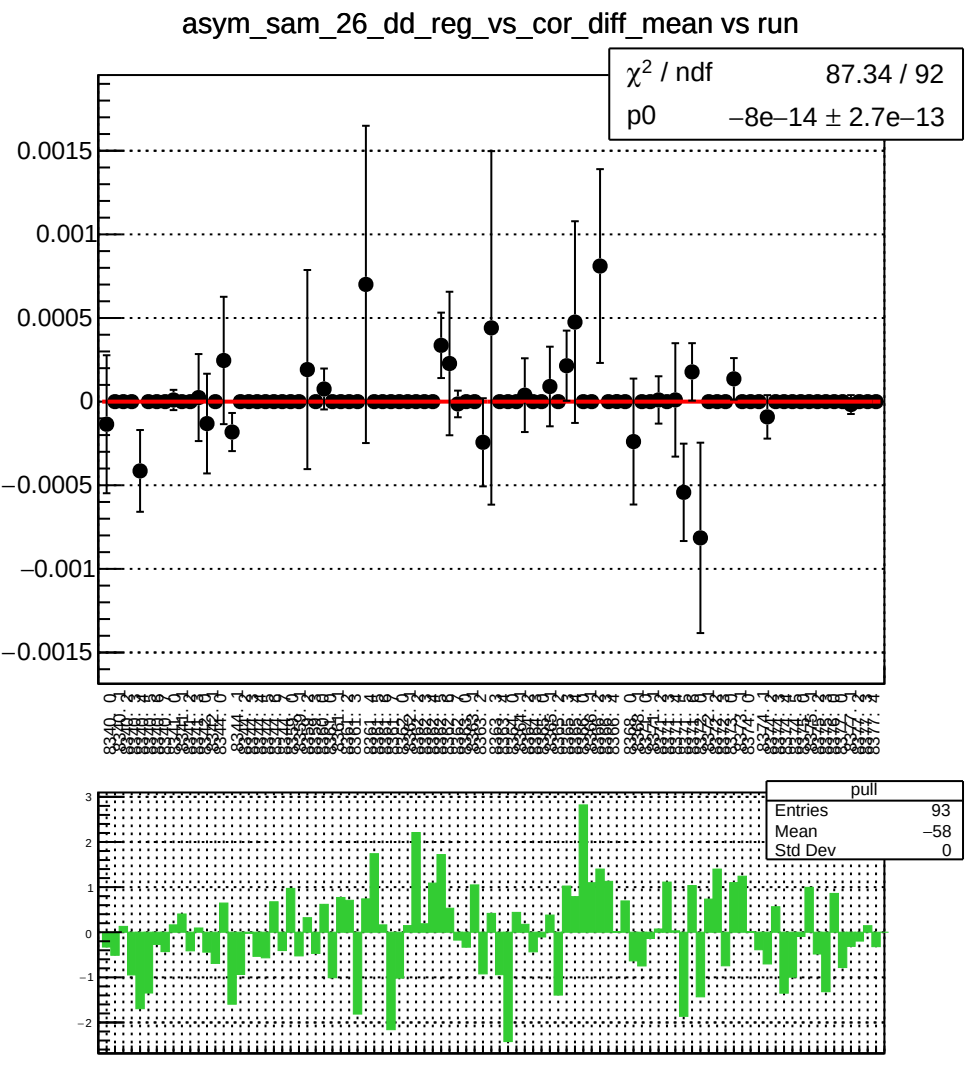

pull1D
Entries 93
Mean −0.0208
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

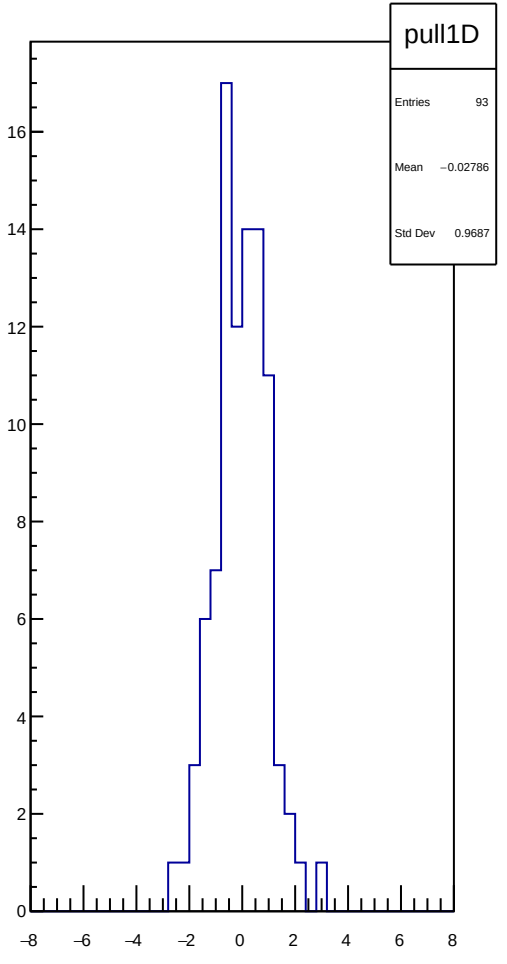

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5785 / 92
p0 2802 ± 2.072
3200
3100
3000
2900
2800
2700
2600
2500

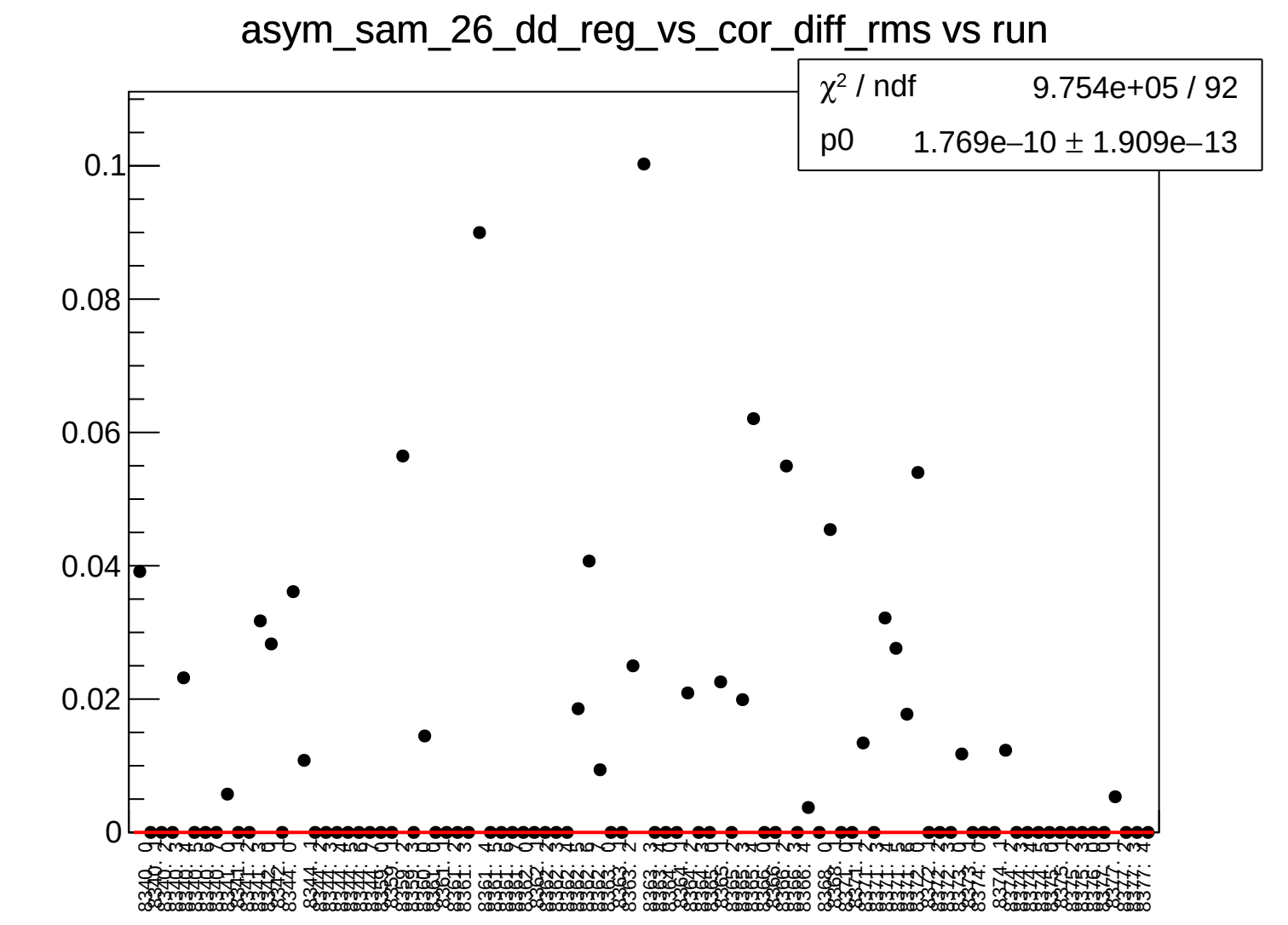

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 108.3 / 92
p0 1593 ± 2890
100
50
0
−50
−100
pull
Entries 93
Mean −145.1
Std Dev 0
2
1
0
−1
−2

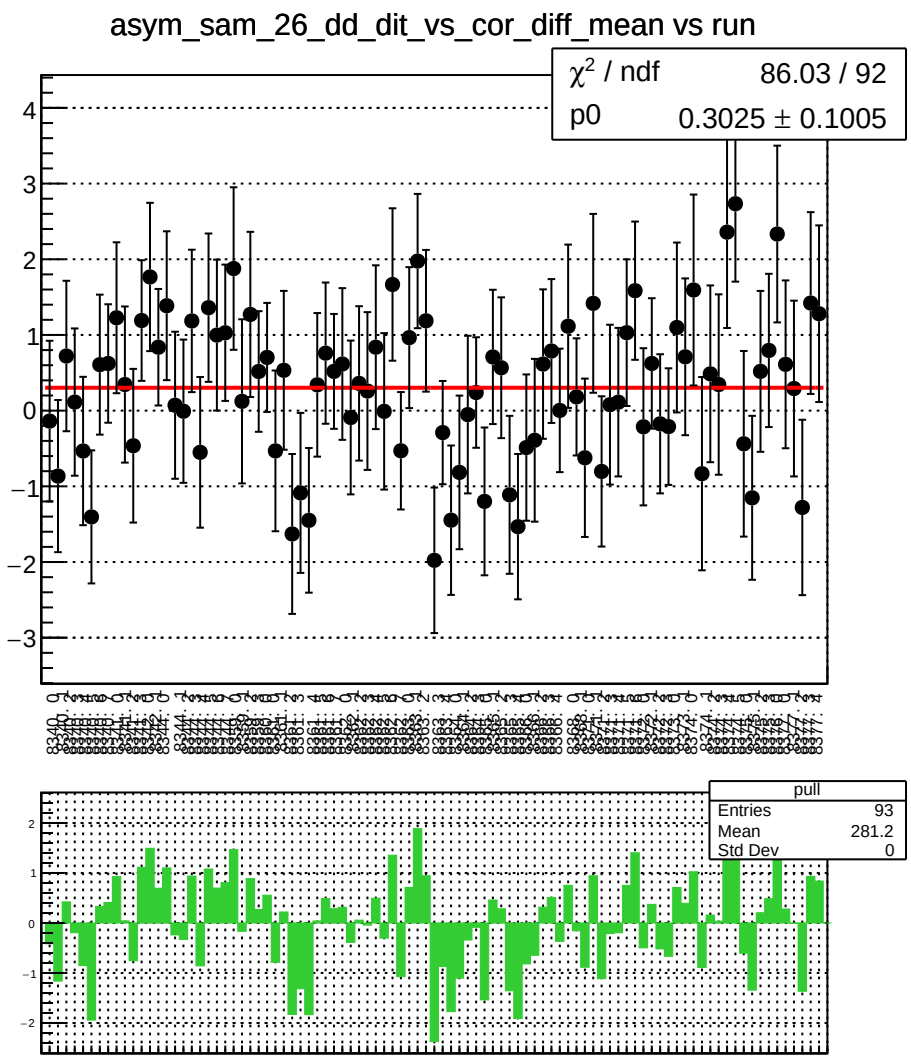

pull1D
Entries 93
Mean 0.02163
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

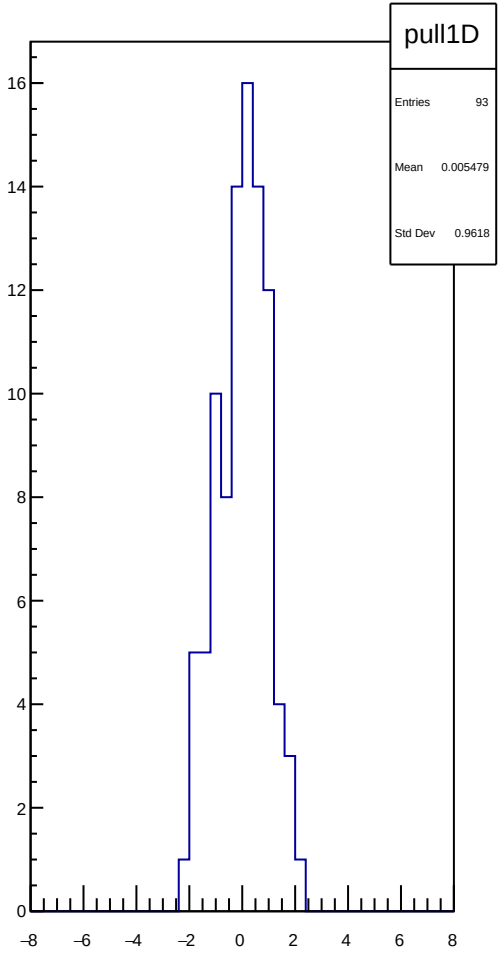

asym_sam_26_dd_rms vs run
χ² / ndf 5511 / 92
p0 2763 ± 2.043
3100
3000
2900
2800
2700
2600
2500
2400

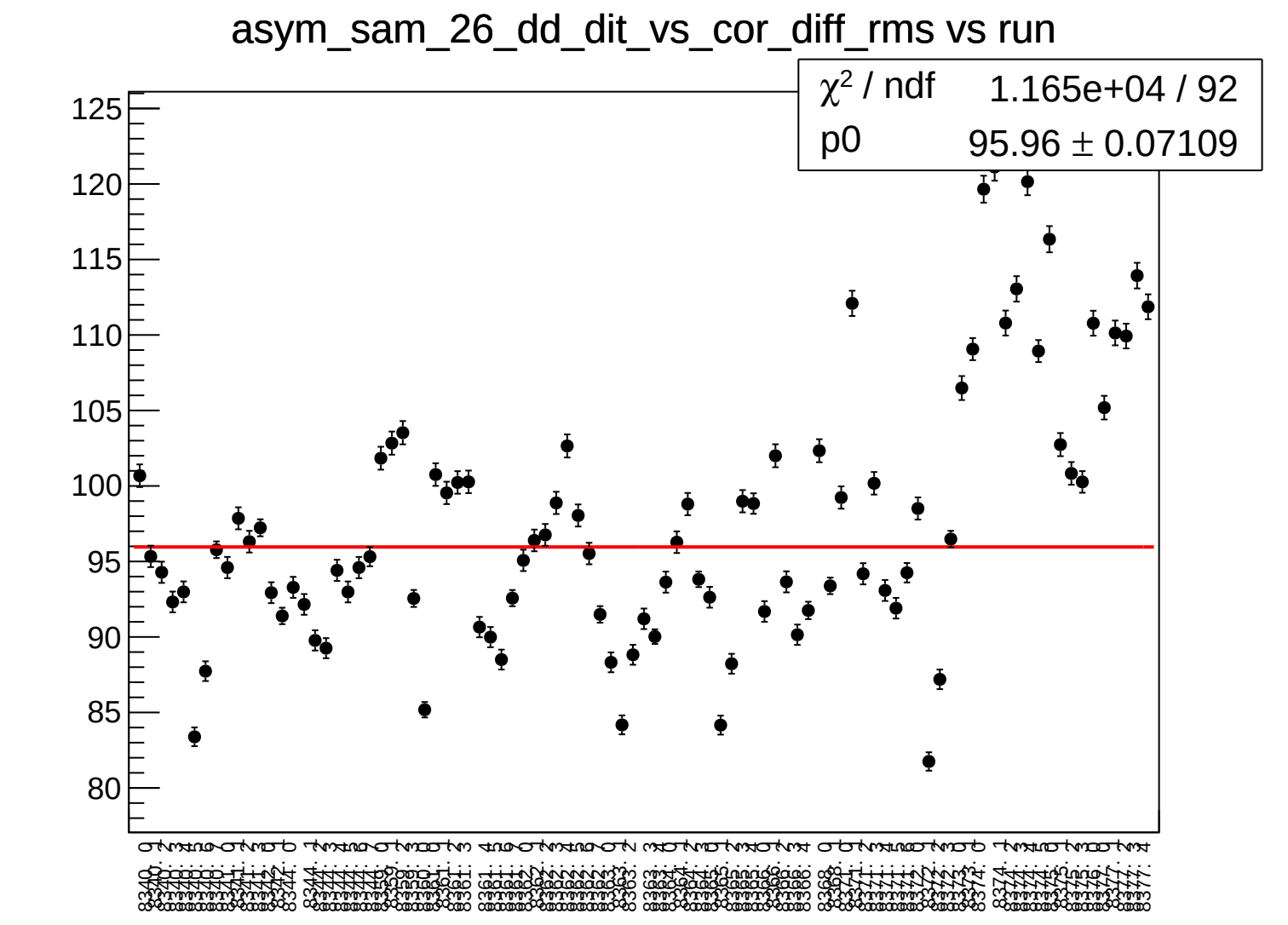

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.34 / 92
p0 −8e−14 ± 2.7e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean −58
Std Dev 0
3
2
1
0
−1
−2

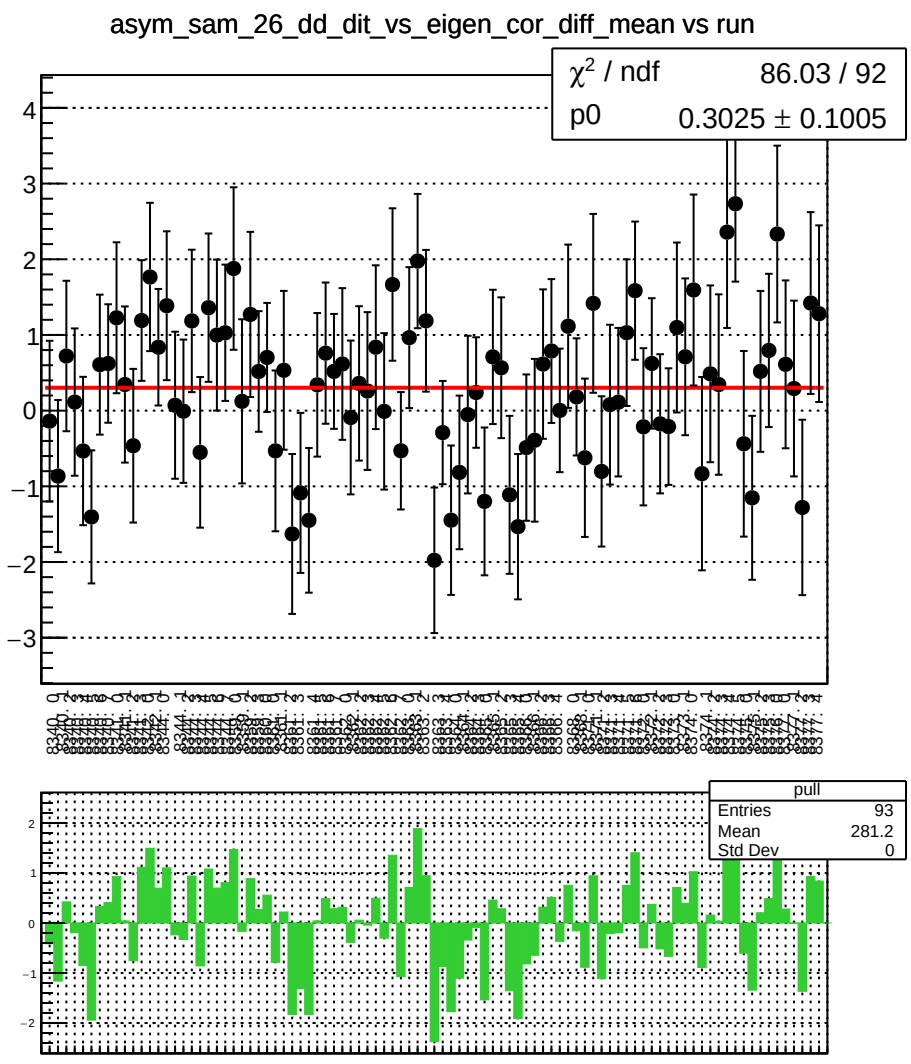

pull1D
Entries 93
Mean −0.02786
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

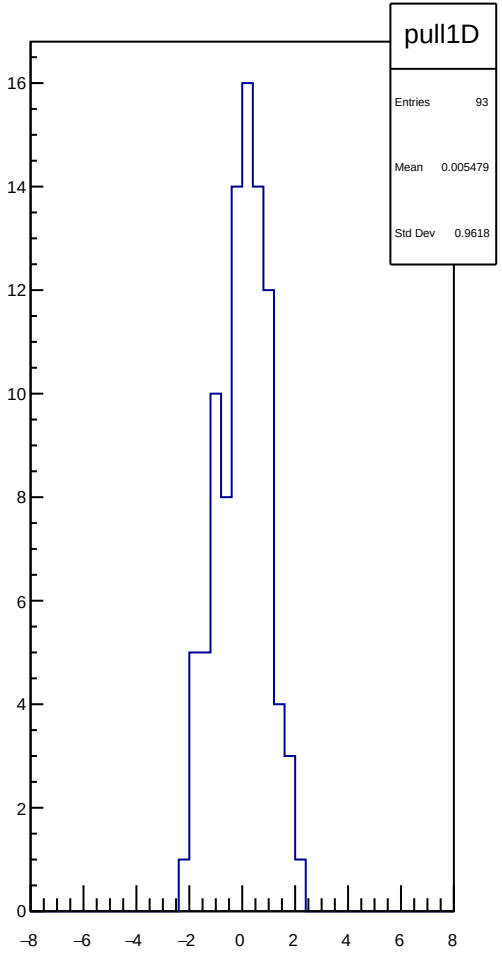

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.754e+05 / 92
p0 1.769e−10 ± 1.909e−13
0.1
0.08
0.06
0.04
0.02
0

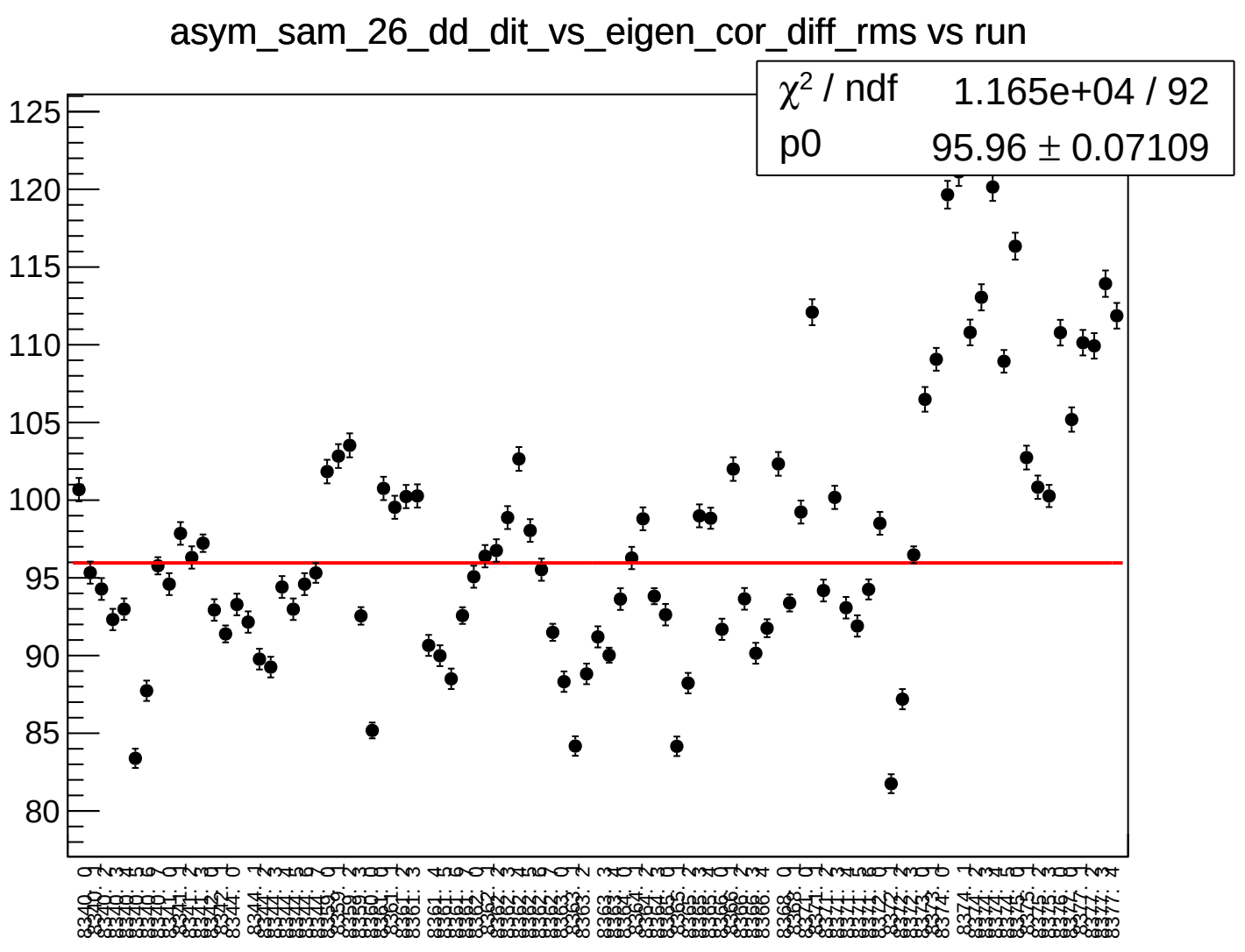

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 92
p0 0.3025 ± 0.1005
pull
Entries 93
Mean 281.2
Std Dev 0

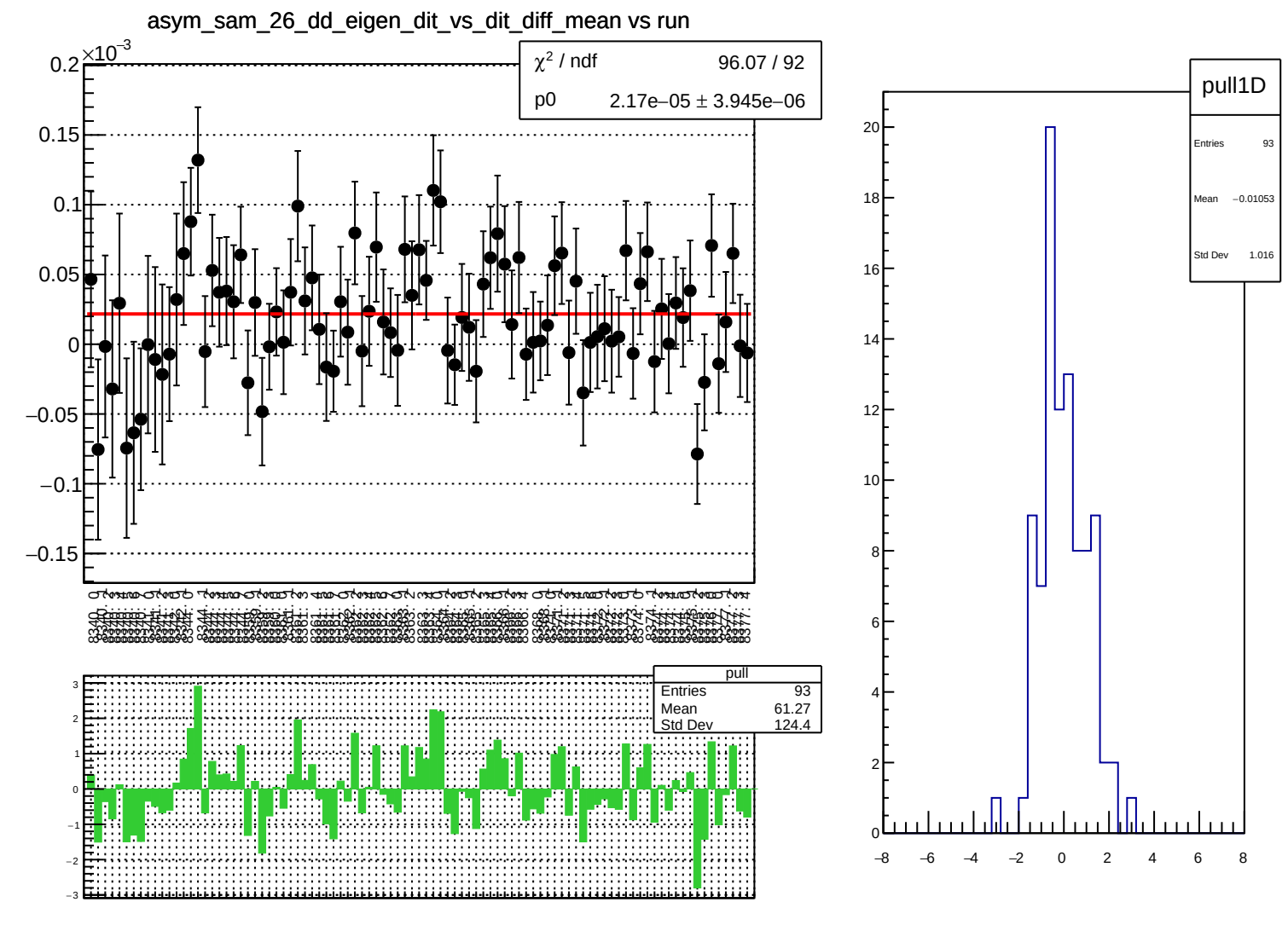

pull1D
Entries 93
Mean 0.005479
Std Dev 0.9618

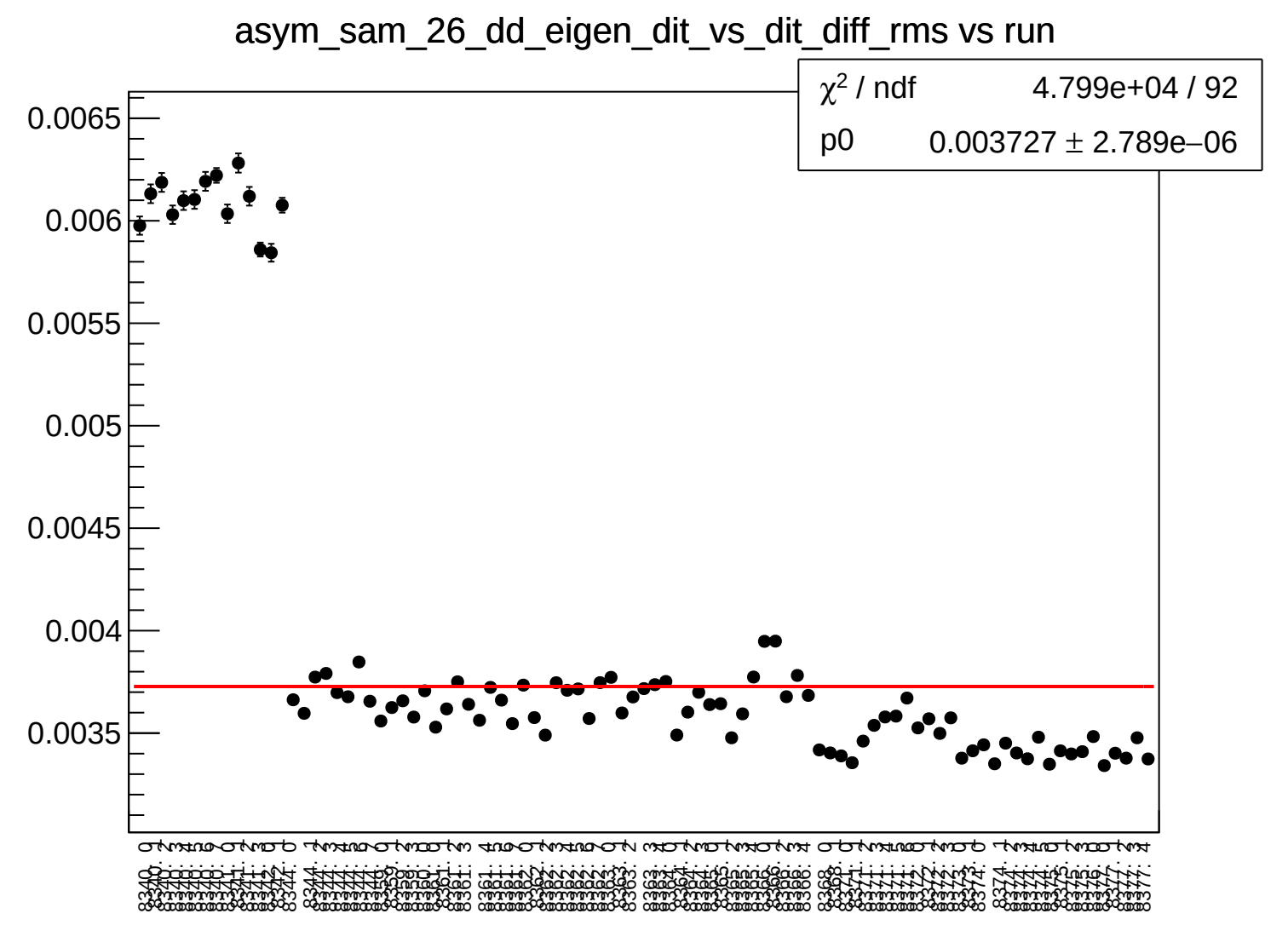

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 95.96 ± 0.07109
125
120
115
110
105
100
95
90
85
80

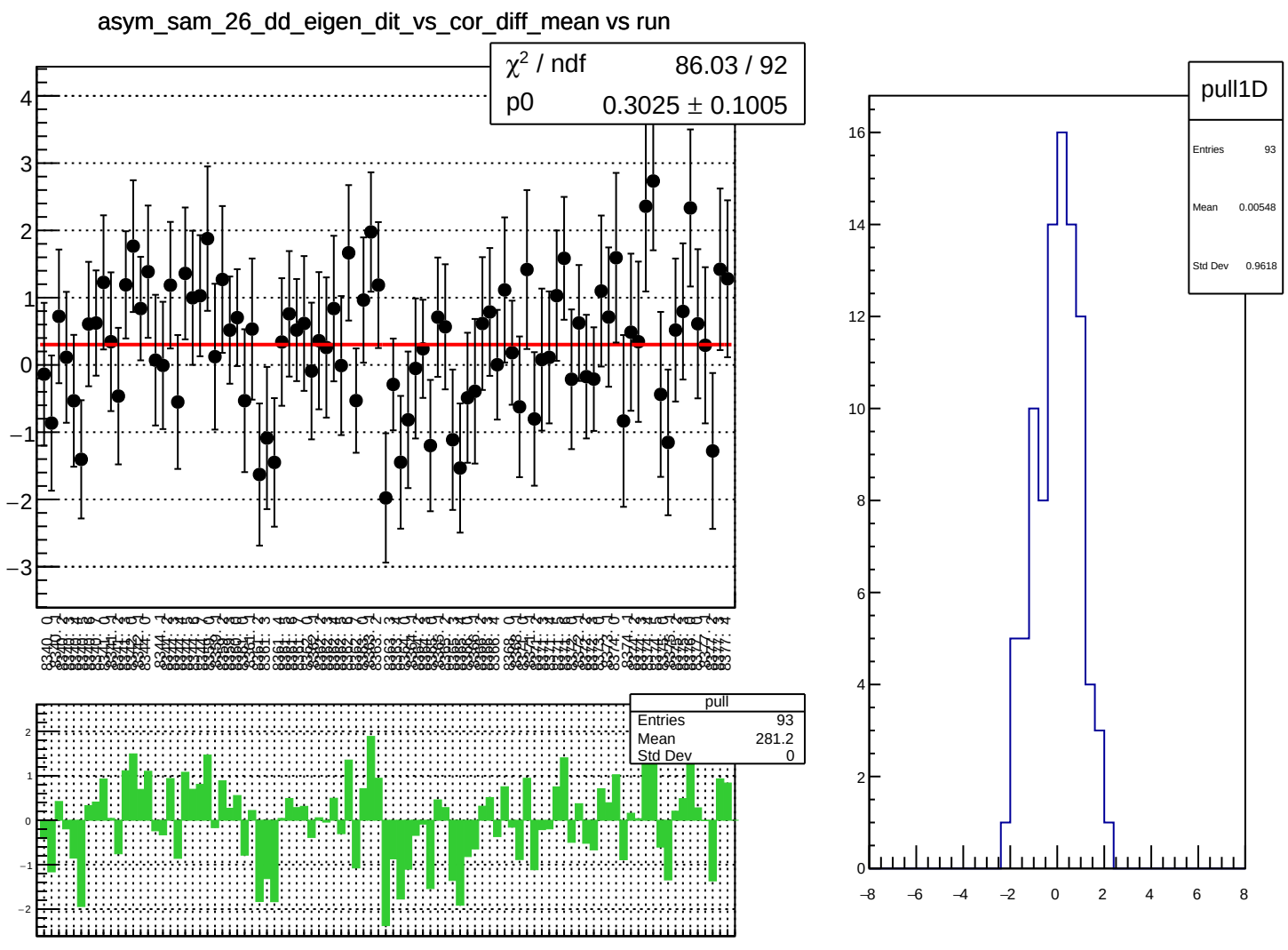

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 92
p0 0.3025 ± 0.1005
pull
Entries 93
Mean 281.2
Std Dev 0

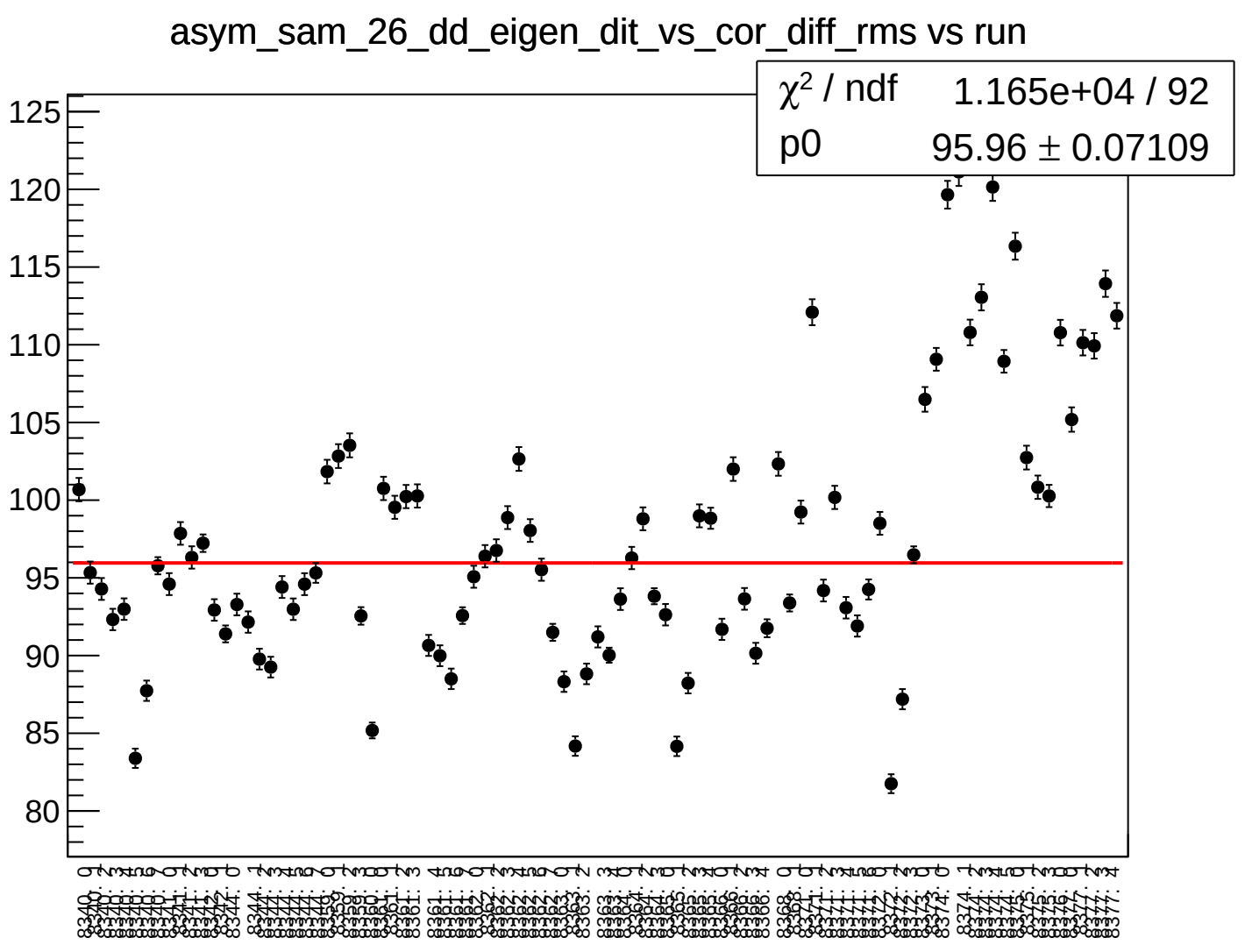

pull1D
Entries 93
Mean 0.005479
Std Dev 0.9618

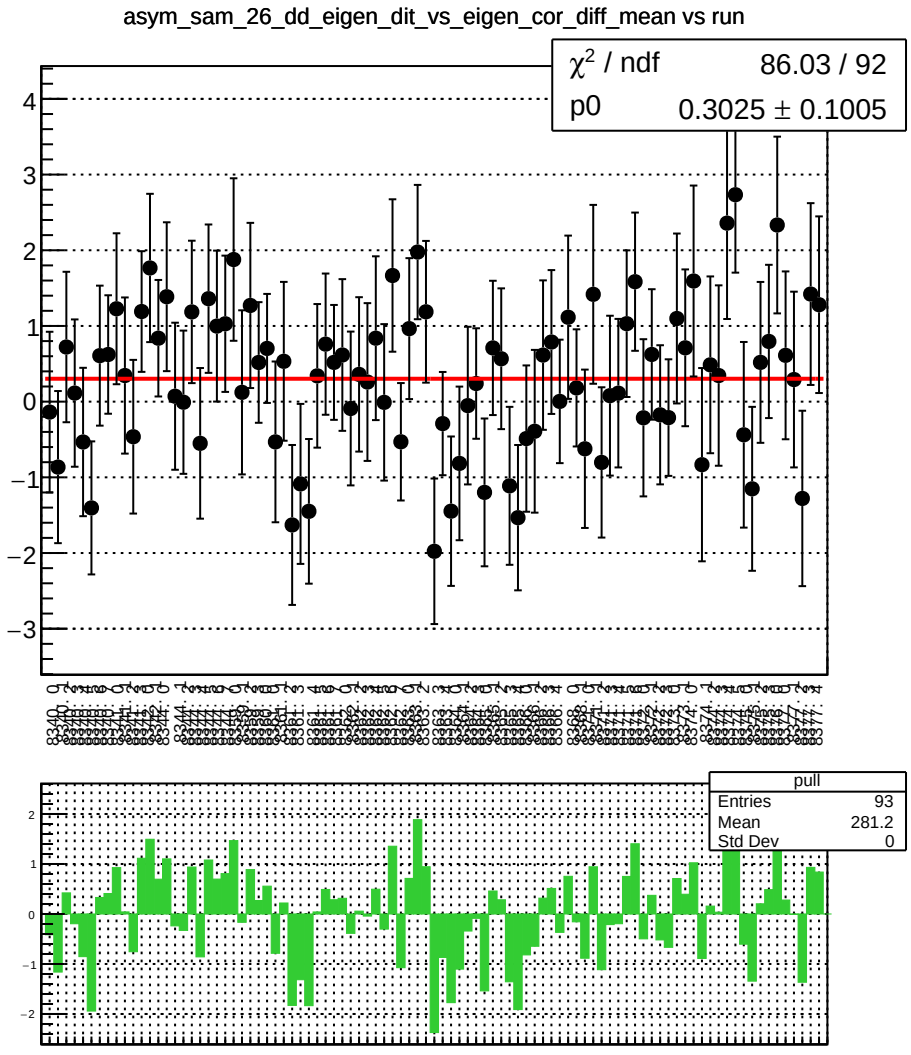

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 95.96 ± 0.07109
125
120
115
110
105
100
95
90
85
80

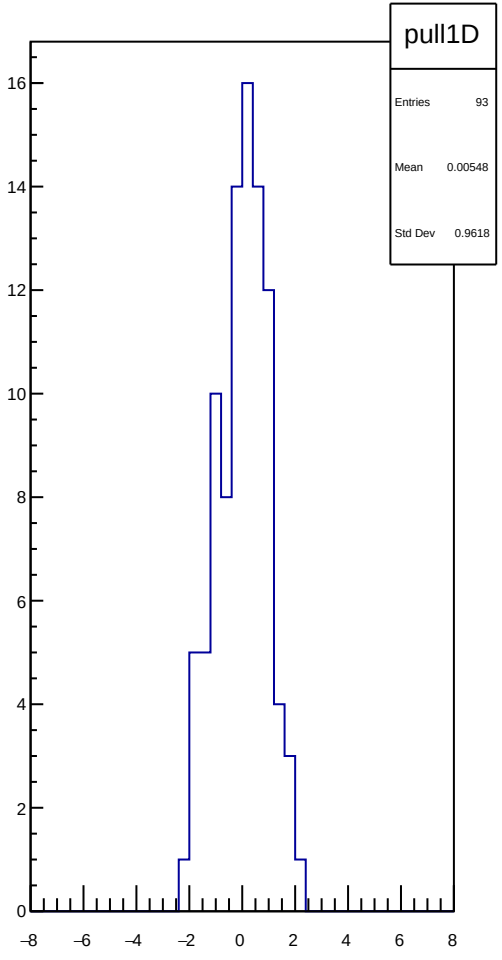

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 96.07 / 92
p0 2.17e−05 ± 3.945e−06
×10⁻³
pull
Entries 93
Mean 61.27
Std Dev 124.4
pull1D
Entries 93
Mean −0.01053
Std Dev 1.016

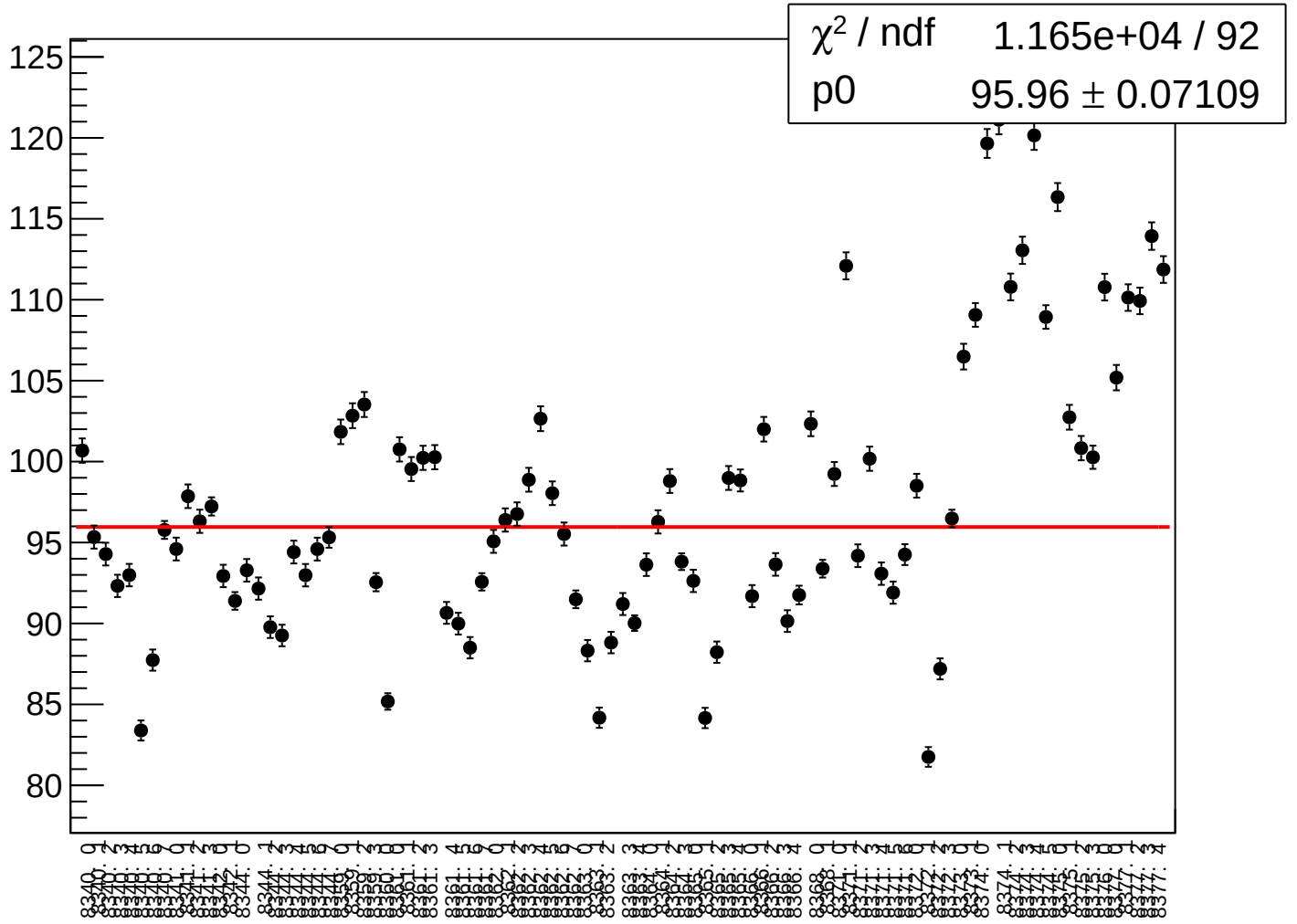

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.799e+04 / 92
p0 0.003727 ± 2.789e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

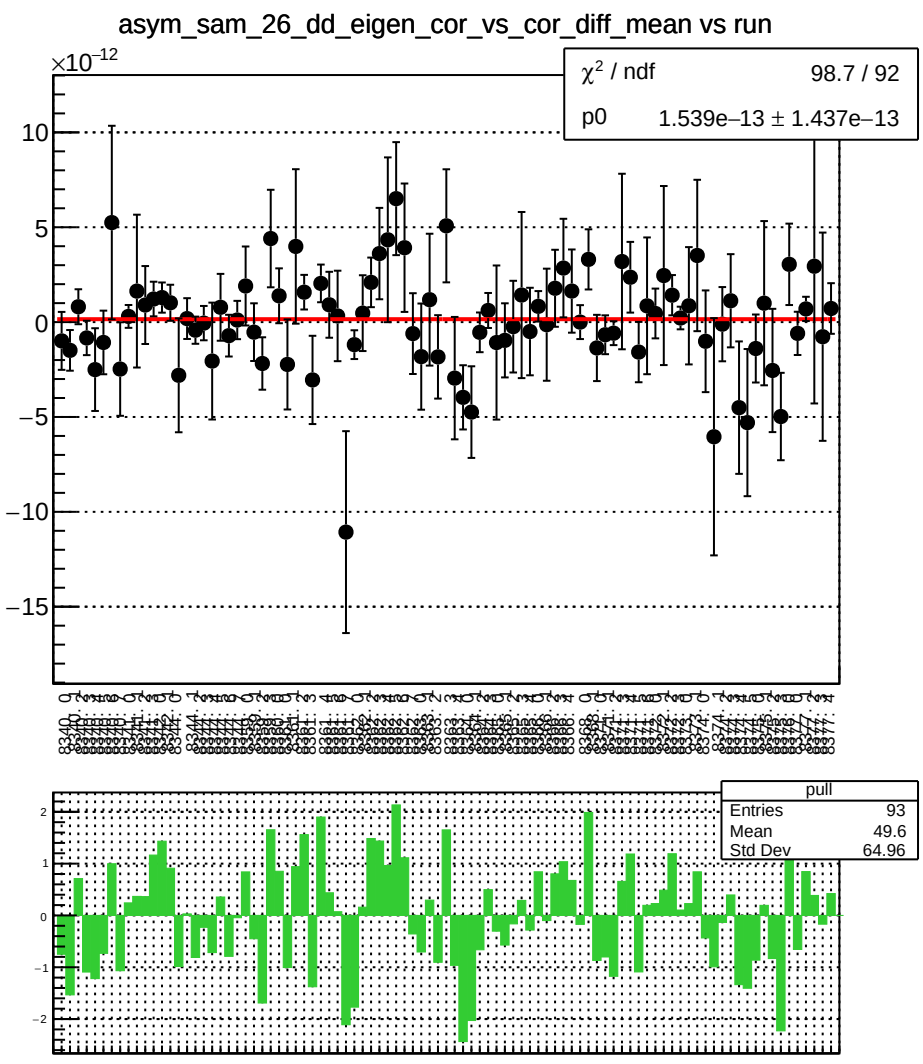

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.03 / 92
p0 0.3025 ± 0.1005
pull
Entries 93
Mean 281.2
Std Dev 0
pull1D
Entries 93
Mean 0.00548
Std Dev 0.9618

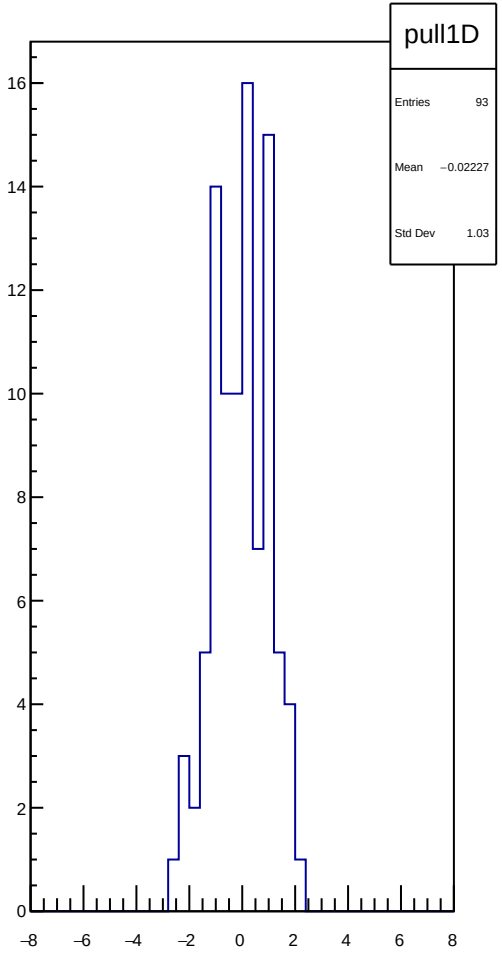

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 95.96 ± 0.07109
125
120
115
110
105
100
95
90
85
80

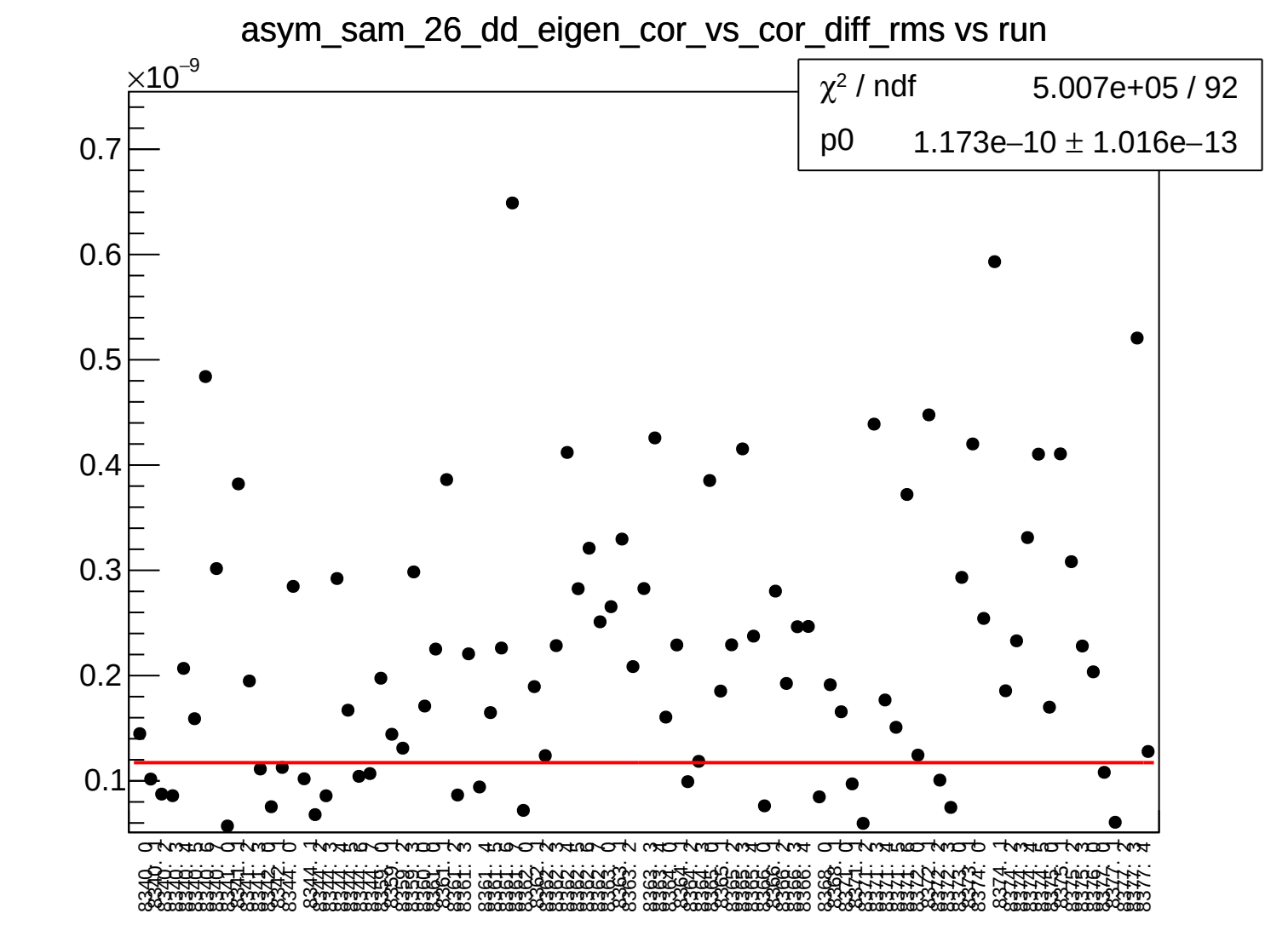

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.03 / 92
p0 0.3025 ± 0.1005
pull
Entries 93
Mean 281.2
Std Dev 0

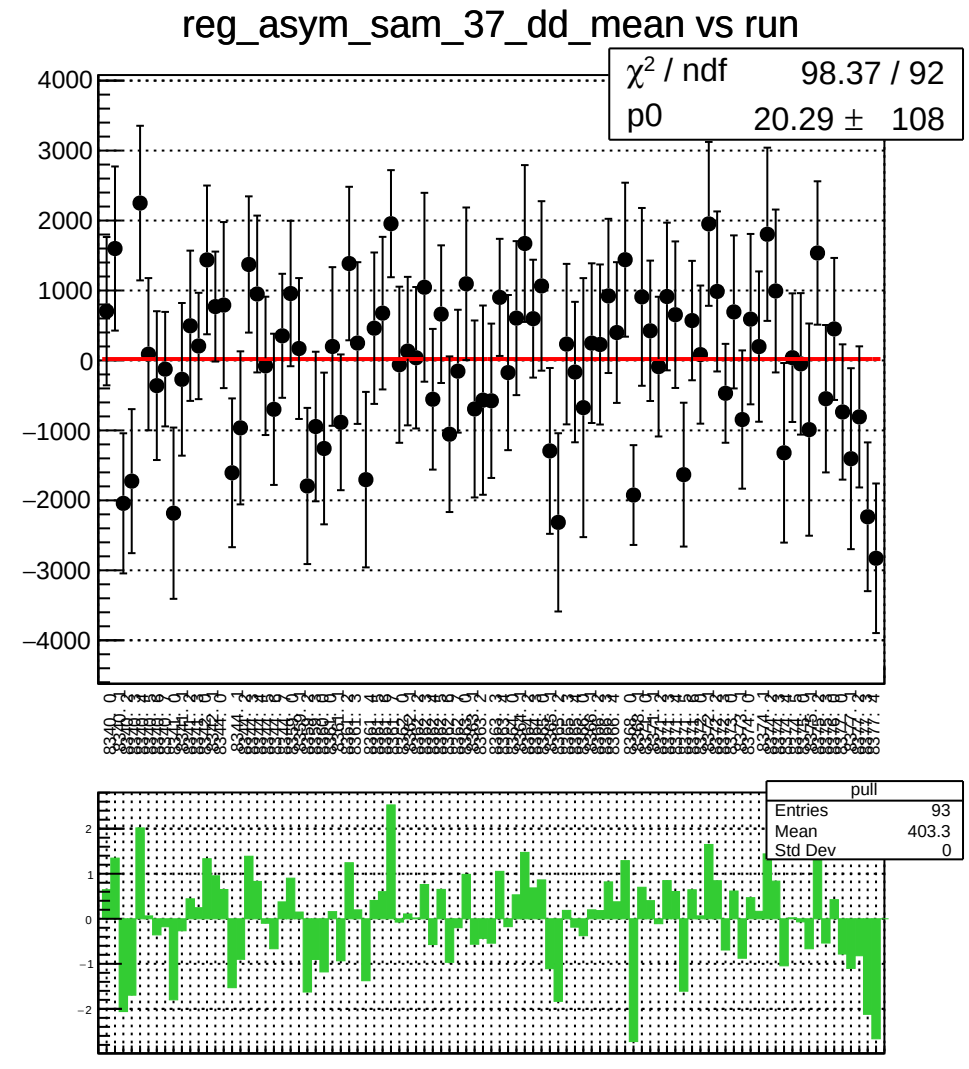

pull1D
Entries 93
Mean 0.00548
Std Dev 0.9618

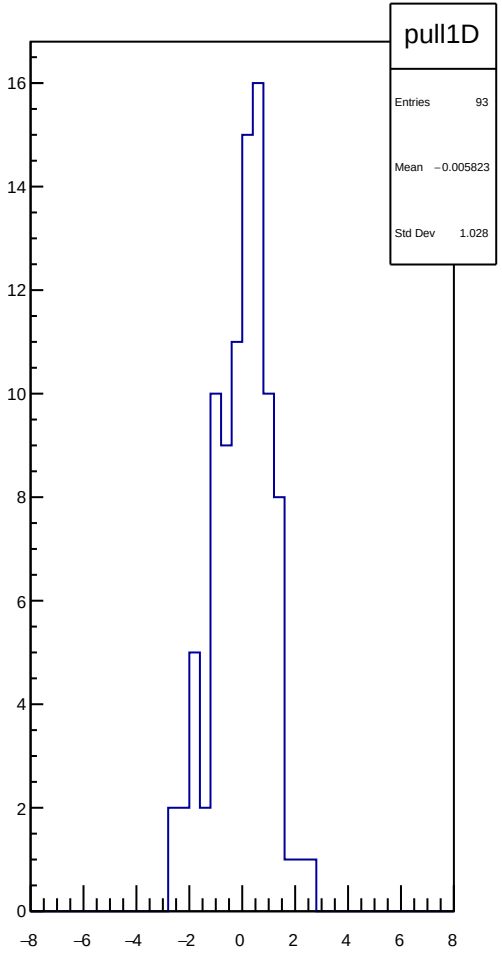

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.165e+04 / 92
p0 95.96 ± 0.07109
125
120
115
110
105
100
95
90
85
80

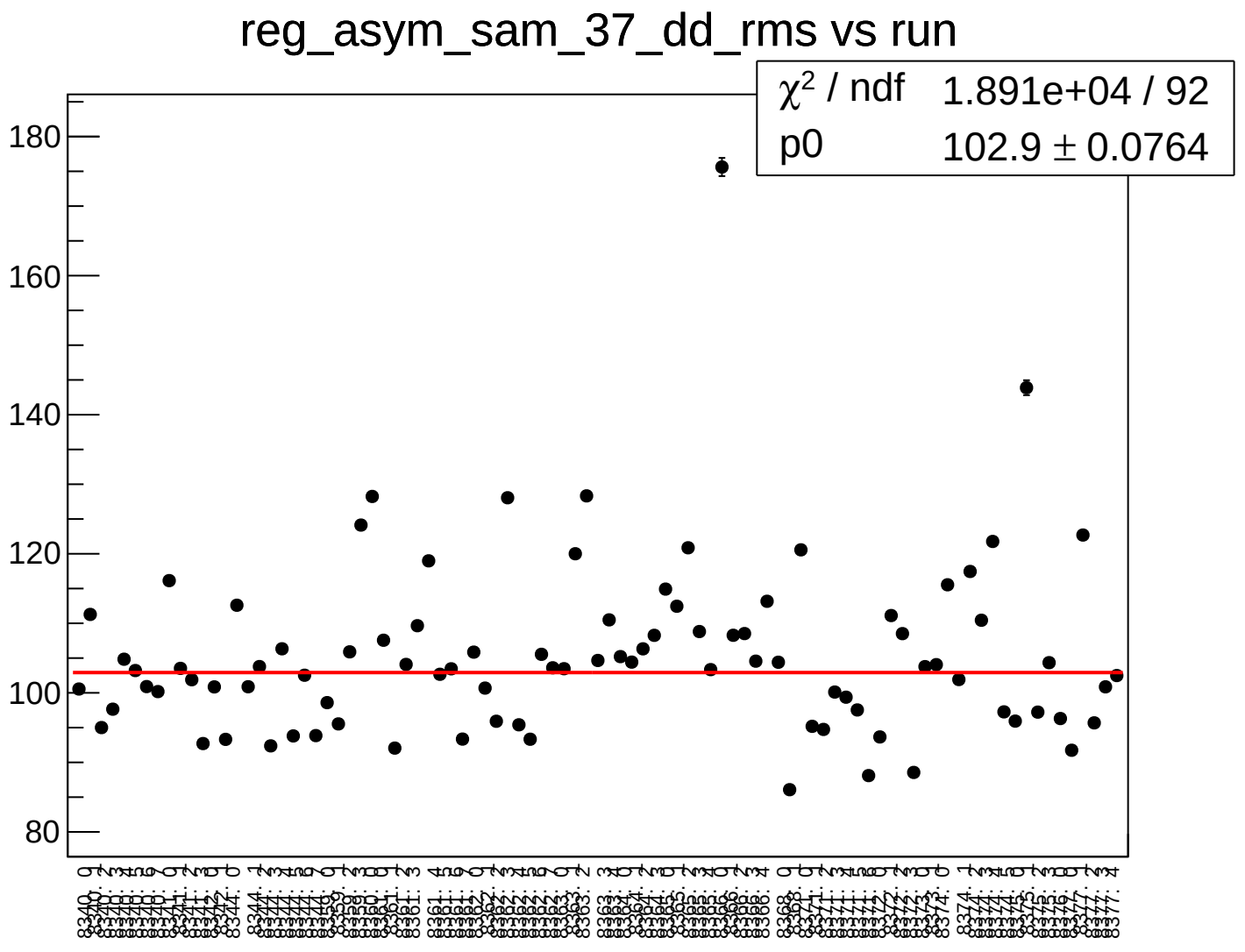

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.7 / 92
p0 1.539e−13 ± 1.437e−13
pull
Entries 93
Mean 49.6
Std Dev 64.96

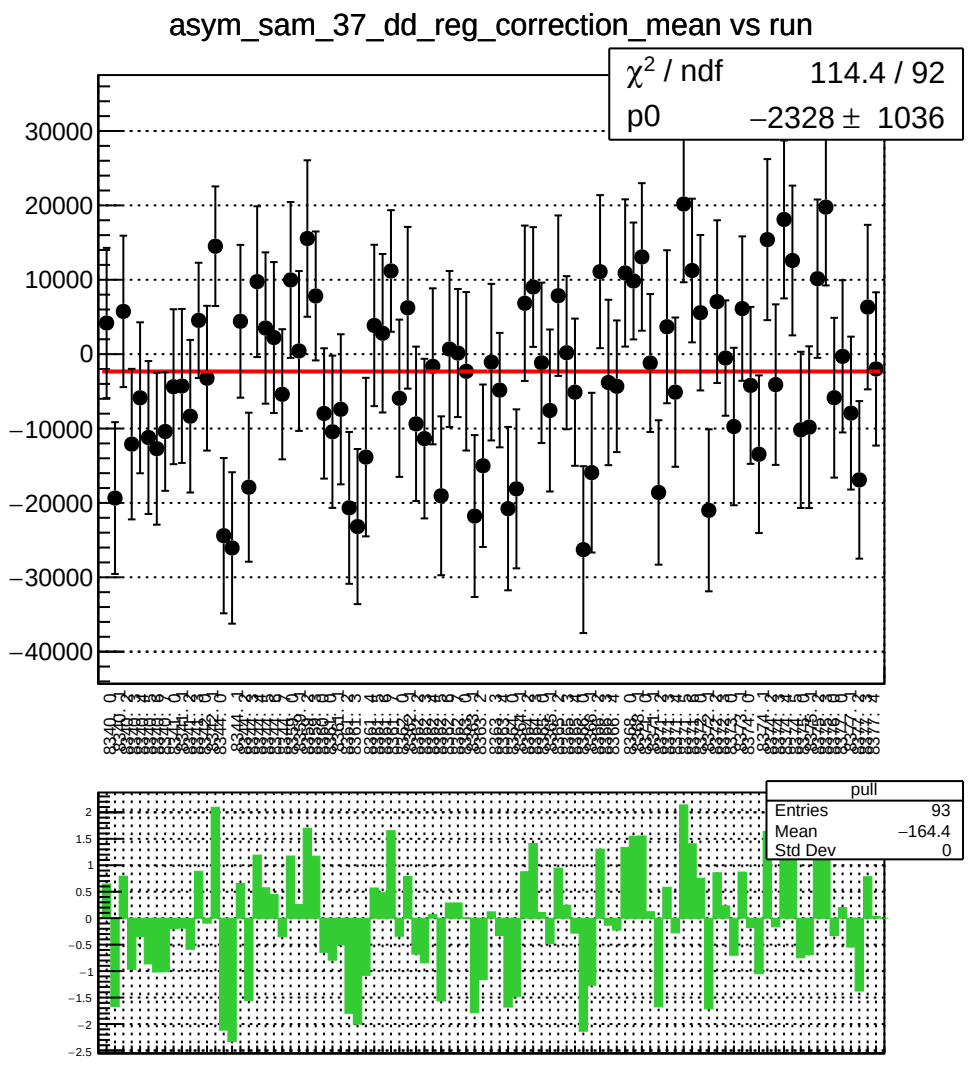

pull1D
Entries 93
Mean −0.02227
Std Dev 1.03

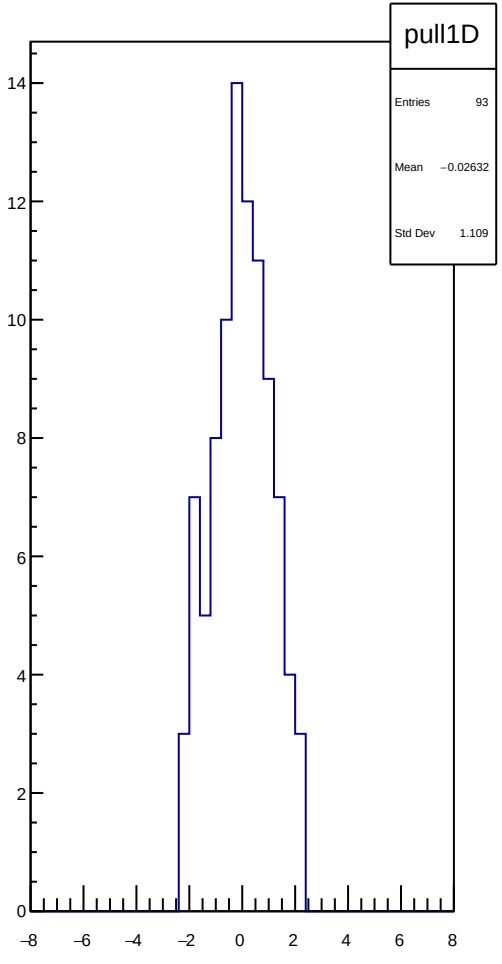

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.007e+05 / 92
p0 1.173e−10 ± 1.016e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

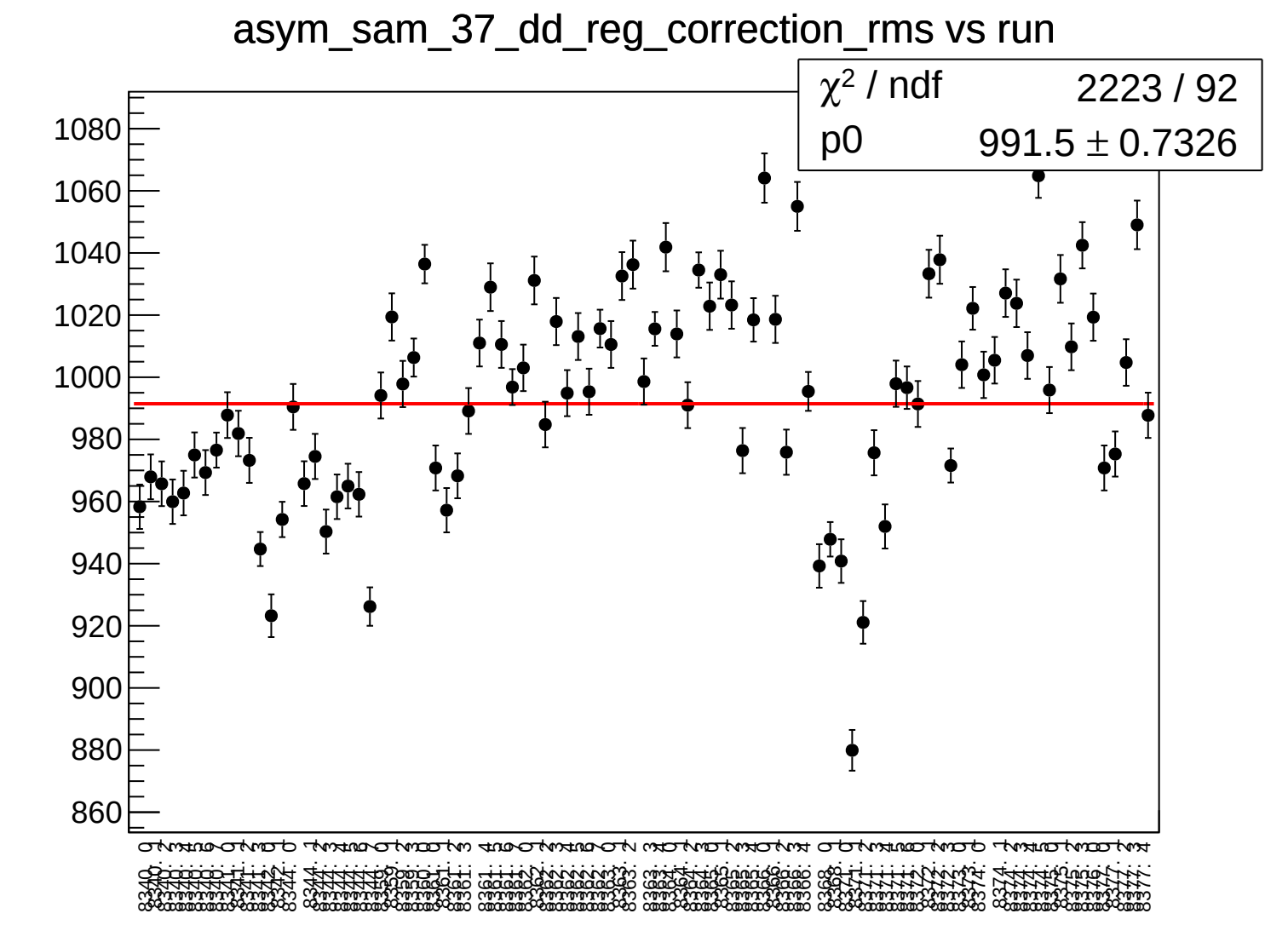

reg_asym_sam_37_dd_mean vs run
χ² / ndf 98.37 / 92
p0 20.29 ± 108
pull
Entries 93
Mean 403.3
Std Dev 0

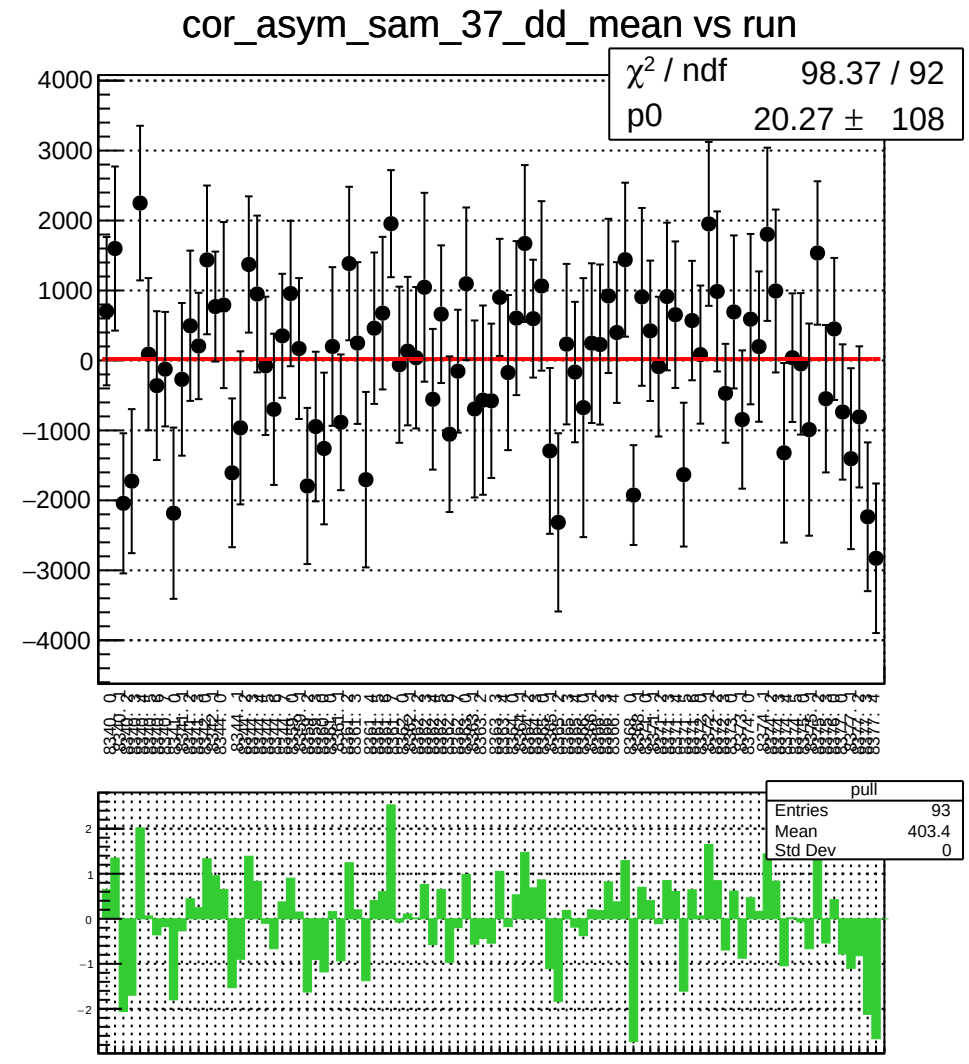

pull1D
Entries 93
Mean −0.005823
Std Dev 1.028

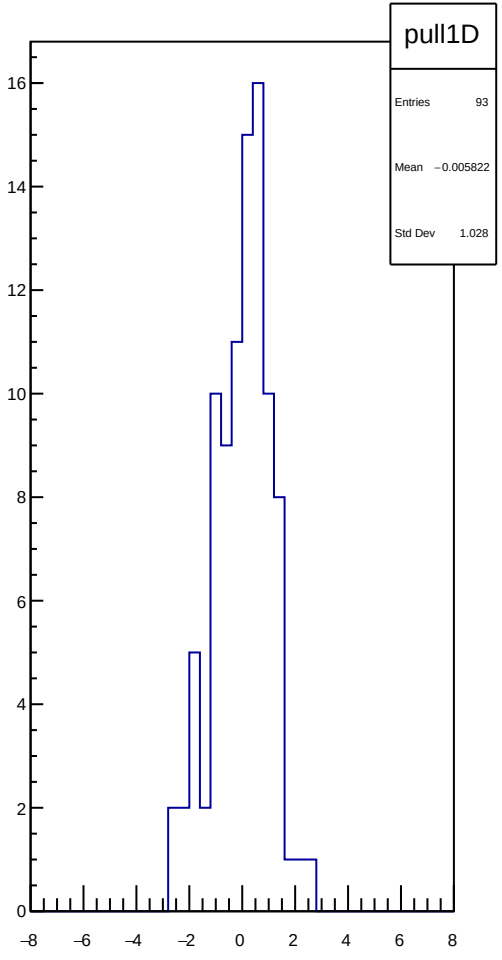

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.891e+04 / 92
p0 102.9 ± 0.0764
180
160
140
120
100
80

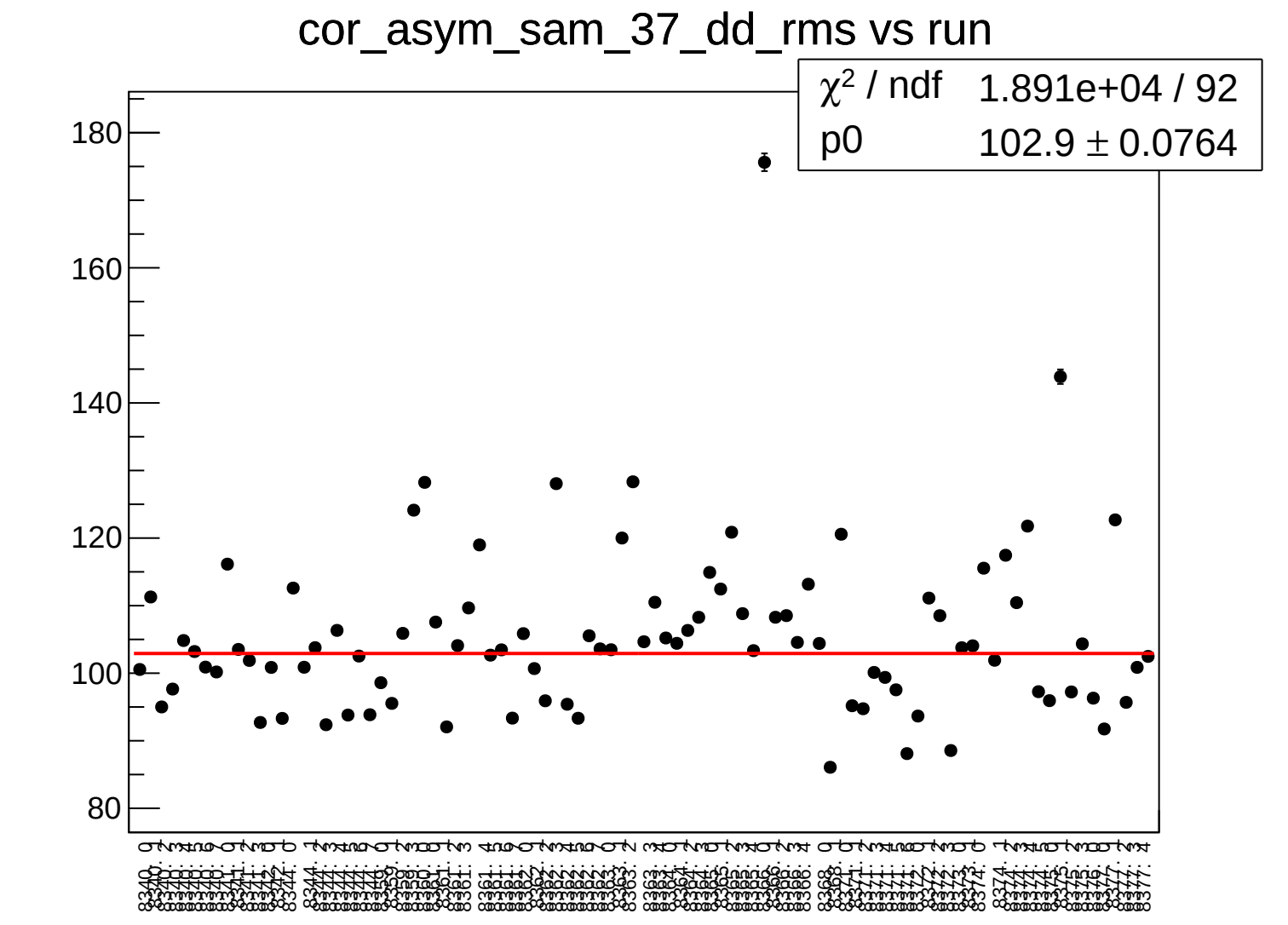

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 114.4 / 92
p0 −2328 ± 1036
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −164.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

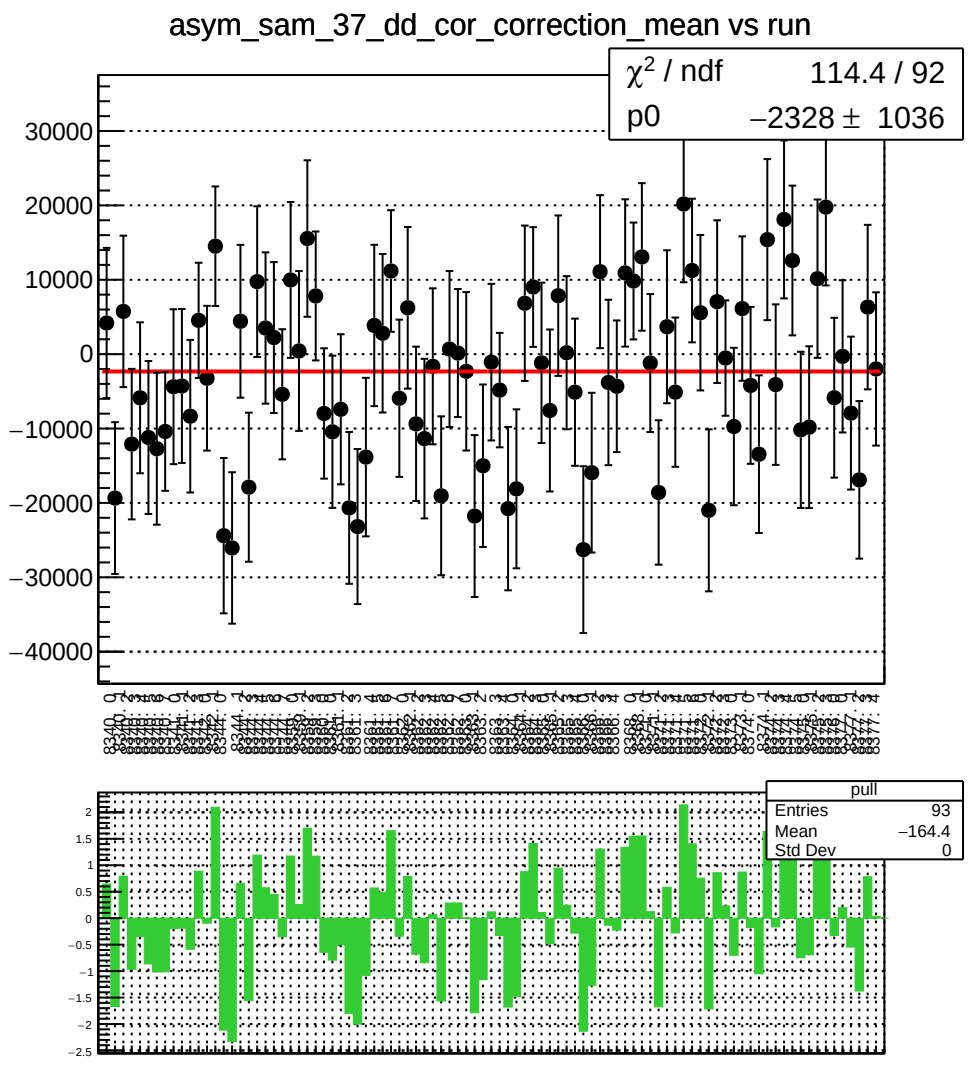

pull1D
Entries 93
Mean −0.02632
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

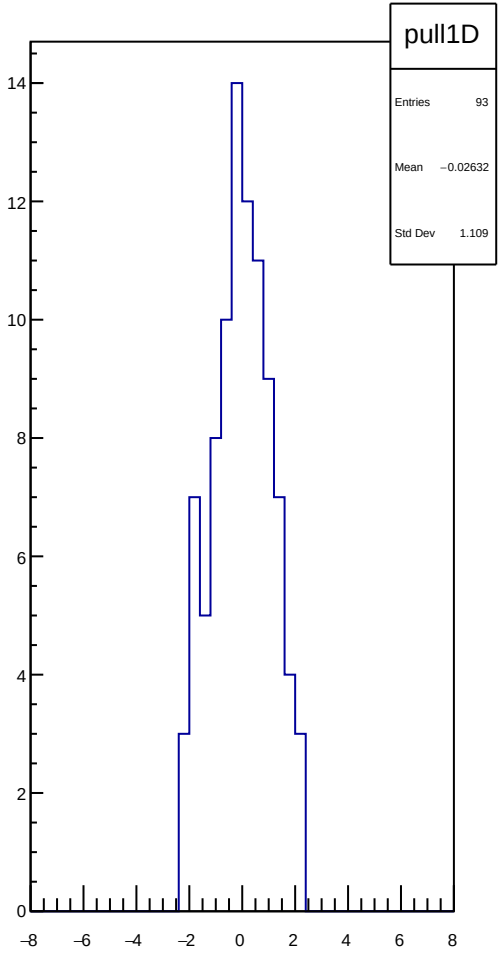

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 2223 / 92
p0 991.5 ± 0.7326
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

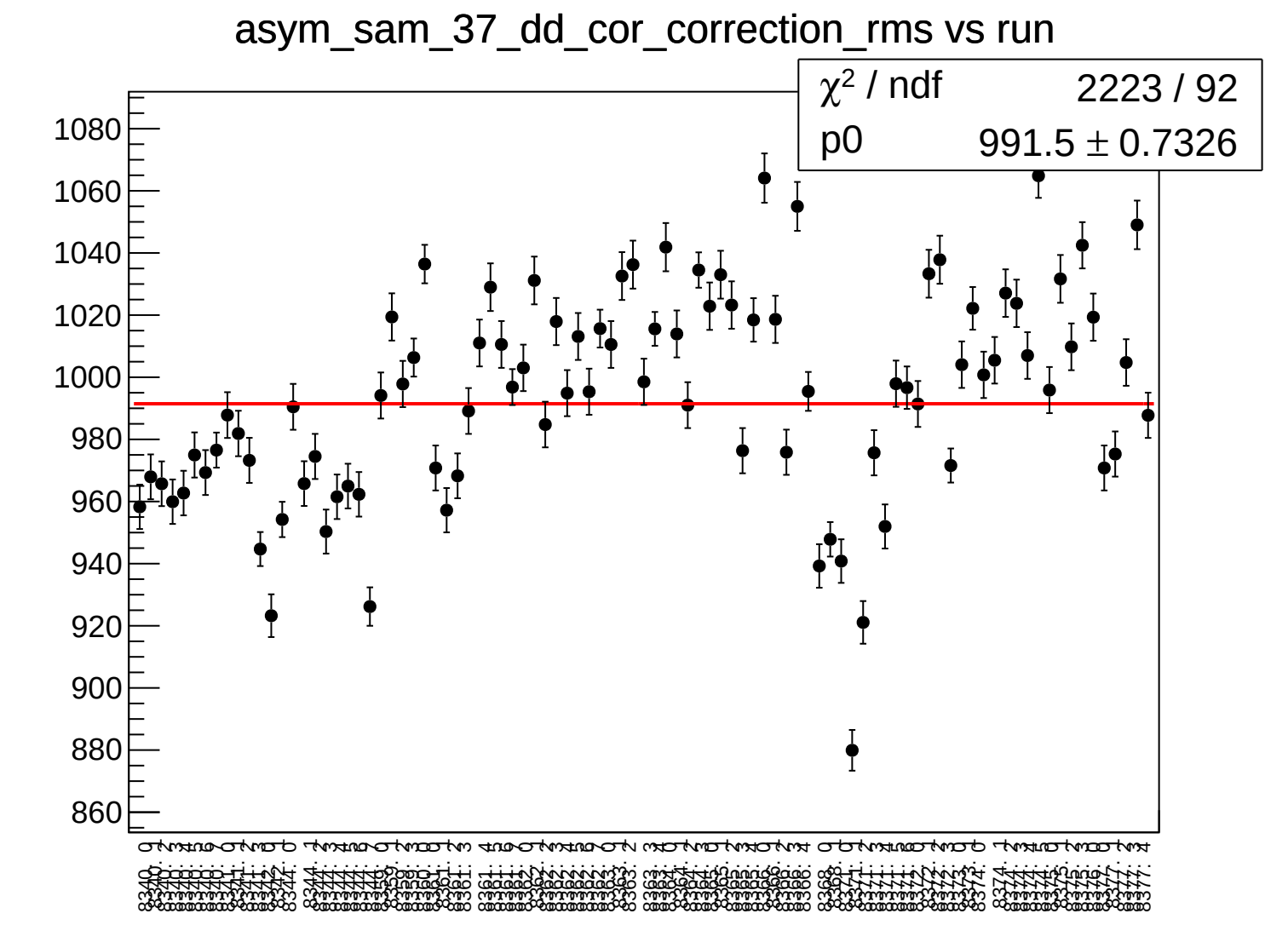

cor_asym_sam_37_dd_mean vs run
χ² / ndf 98.37 / 92
p0 20.27 ± 108
pull
Entries 93
Mean 403.4
Std Dev 0

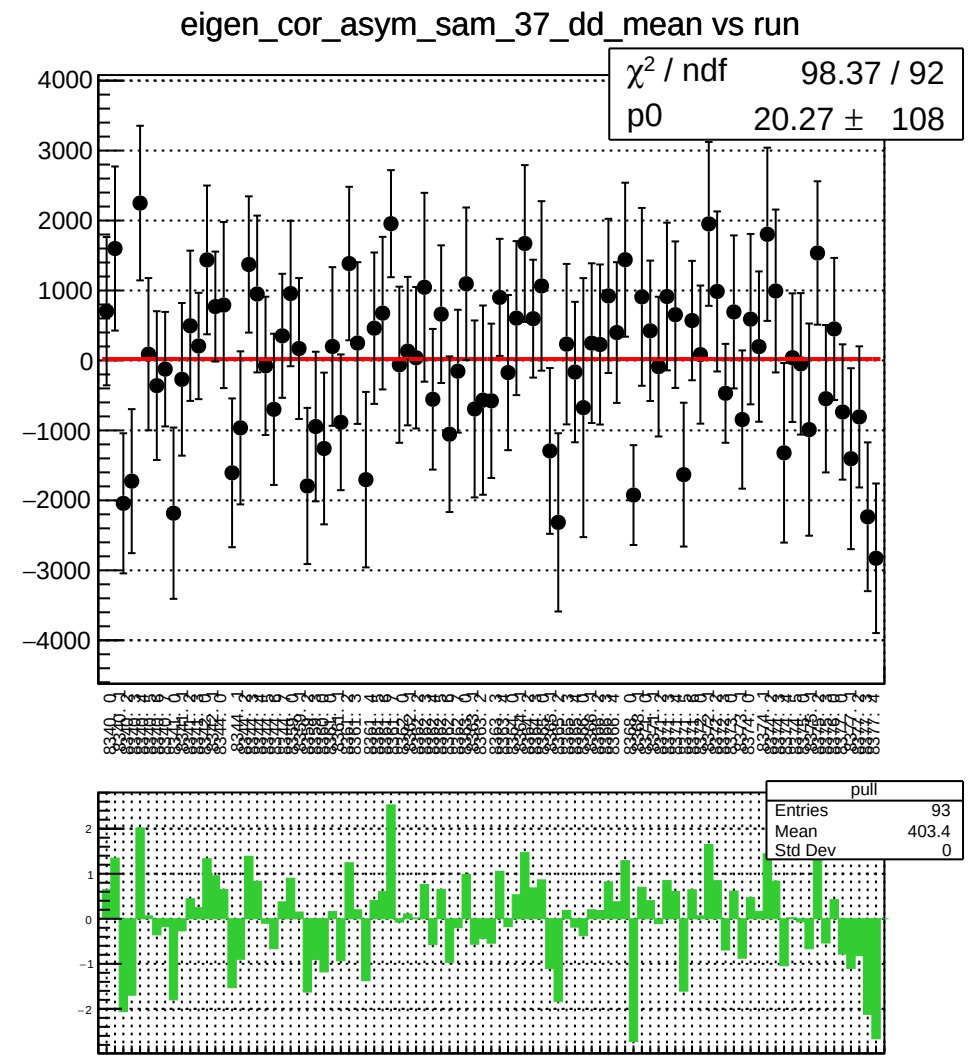

pull1D
Entries 93
Mean −0.005822
Std Dev 1.028

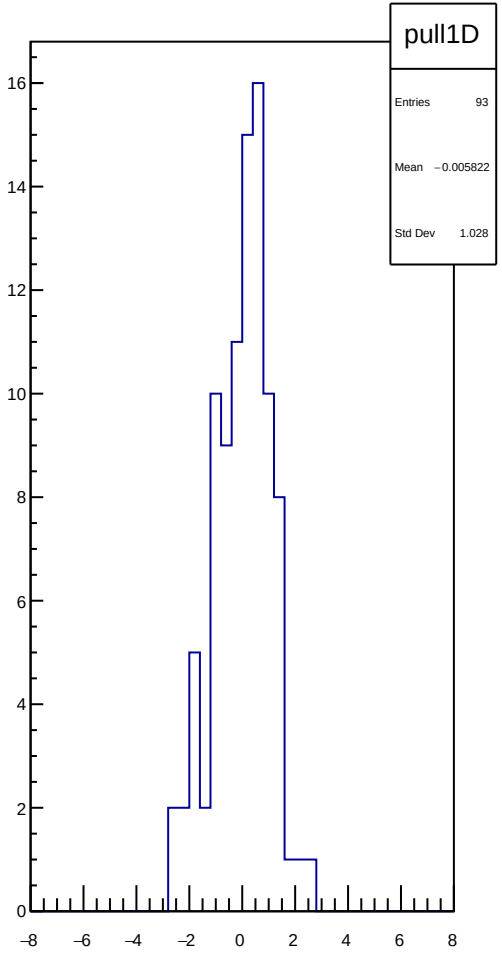

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.891e+04 / 92
p0 102.9 ± 0.0764
180
160
140
120
100
80

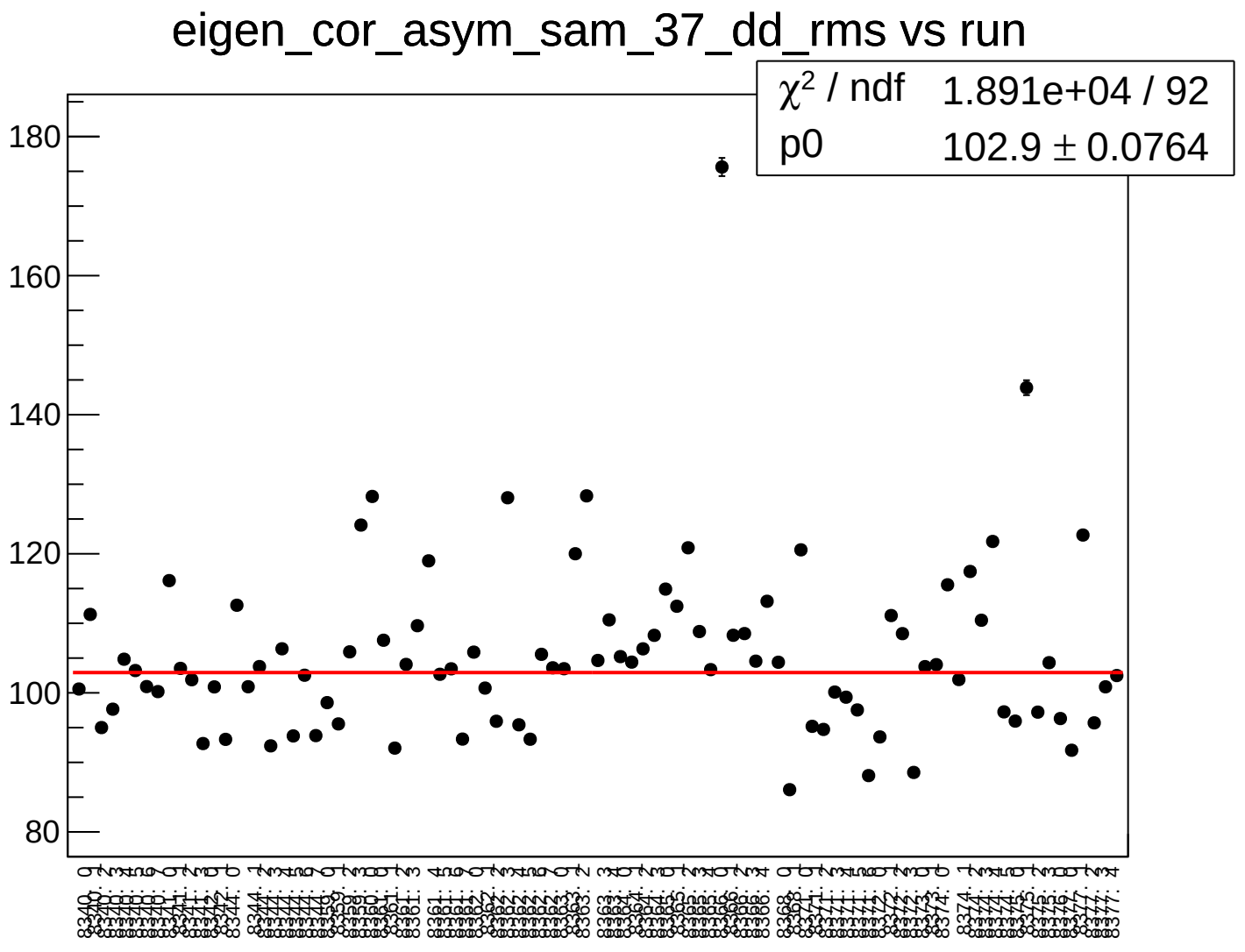

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 114.4 / 92
p0 −2328 ± 1036
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −164.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

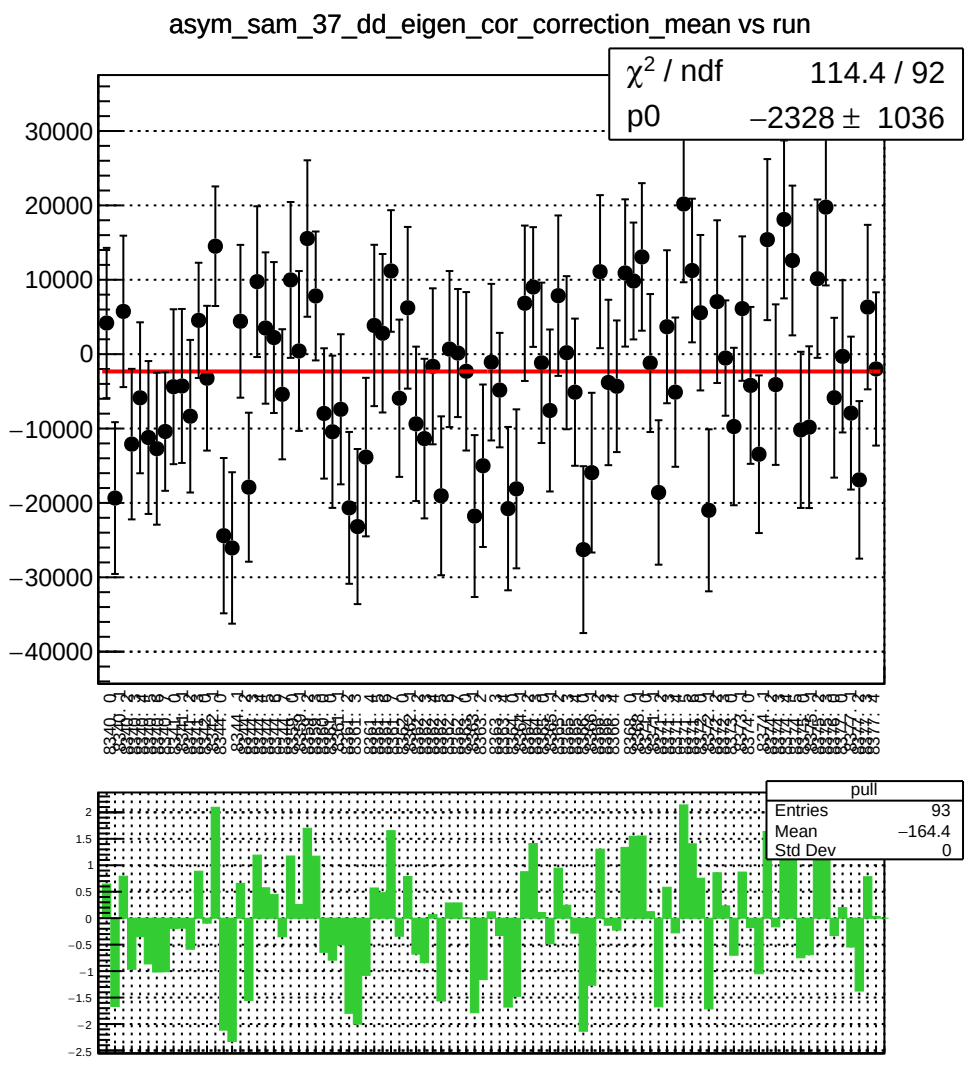

pull1D
Entries 93
Mean −0.02632
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

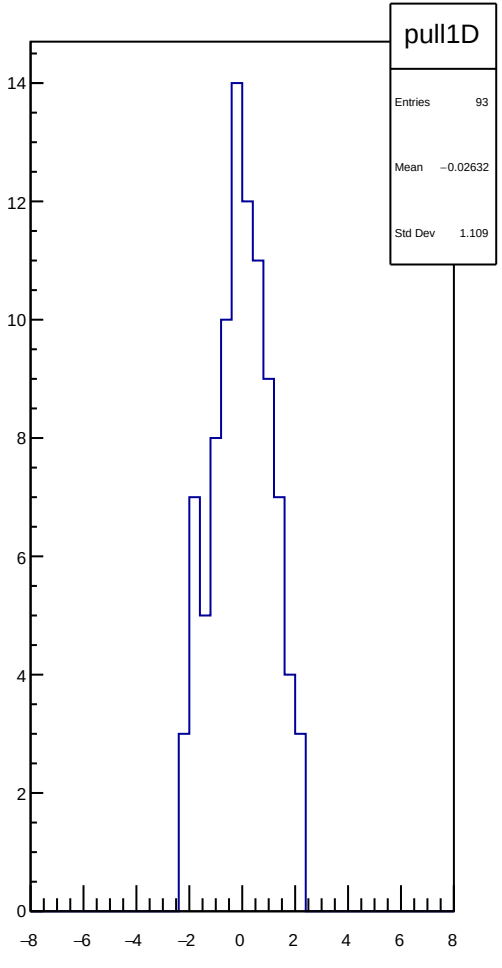

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 2223 / 92
p0 991.5 ± 0.7326
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

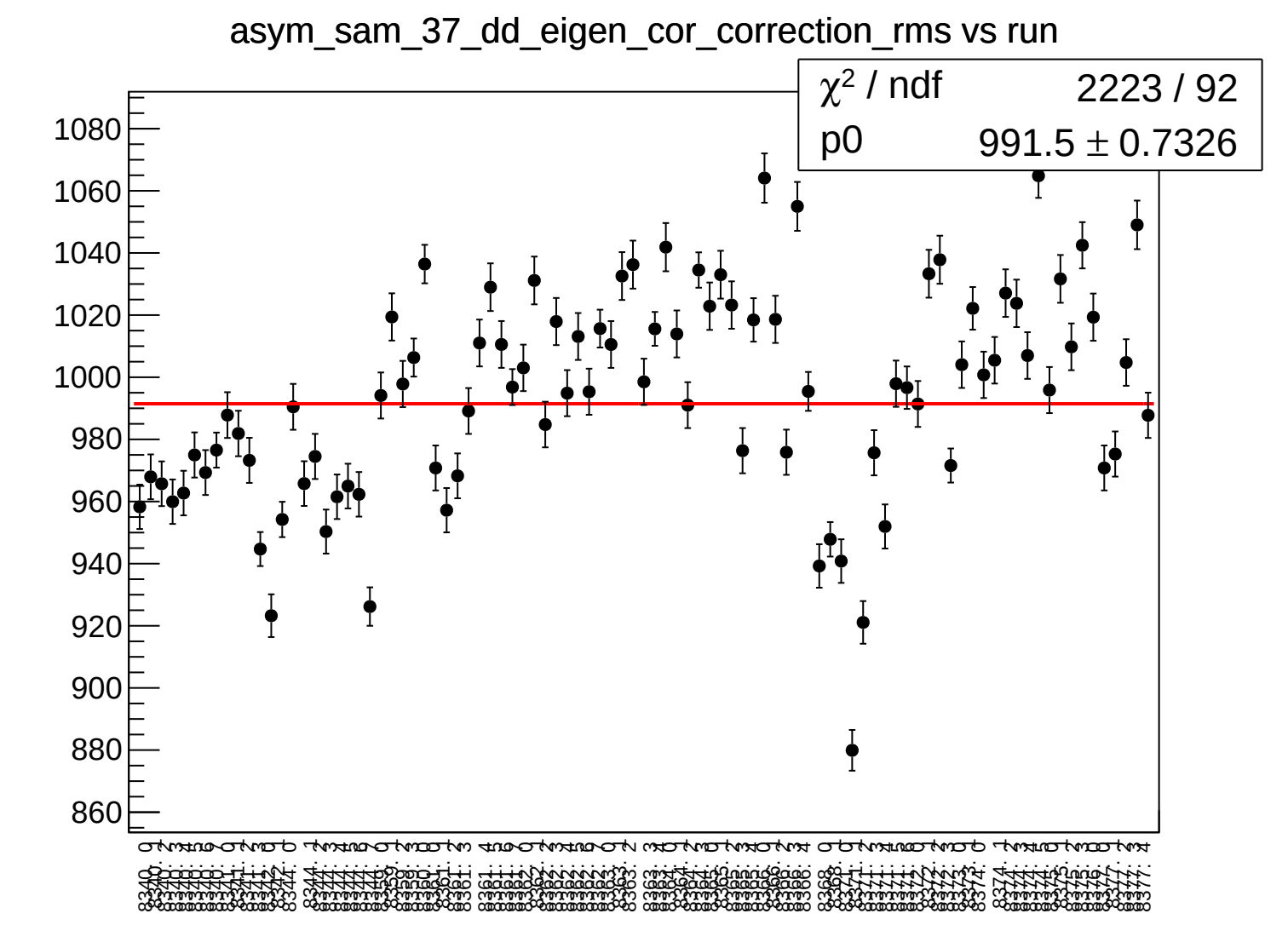

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 98.37 / 92
p0 20.27 ± 108
pull
Entries 93
Mean 403.4
Std Dev 0

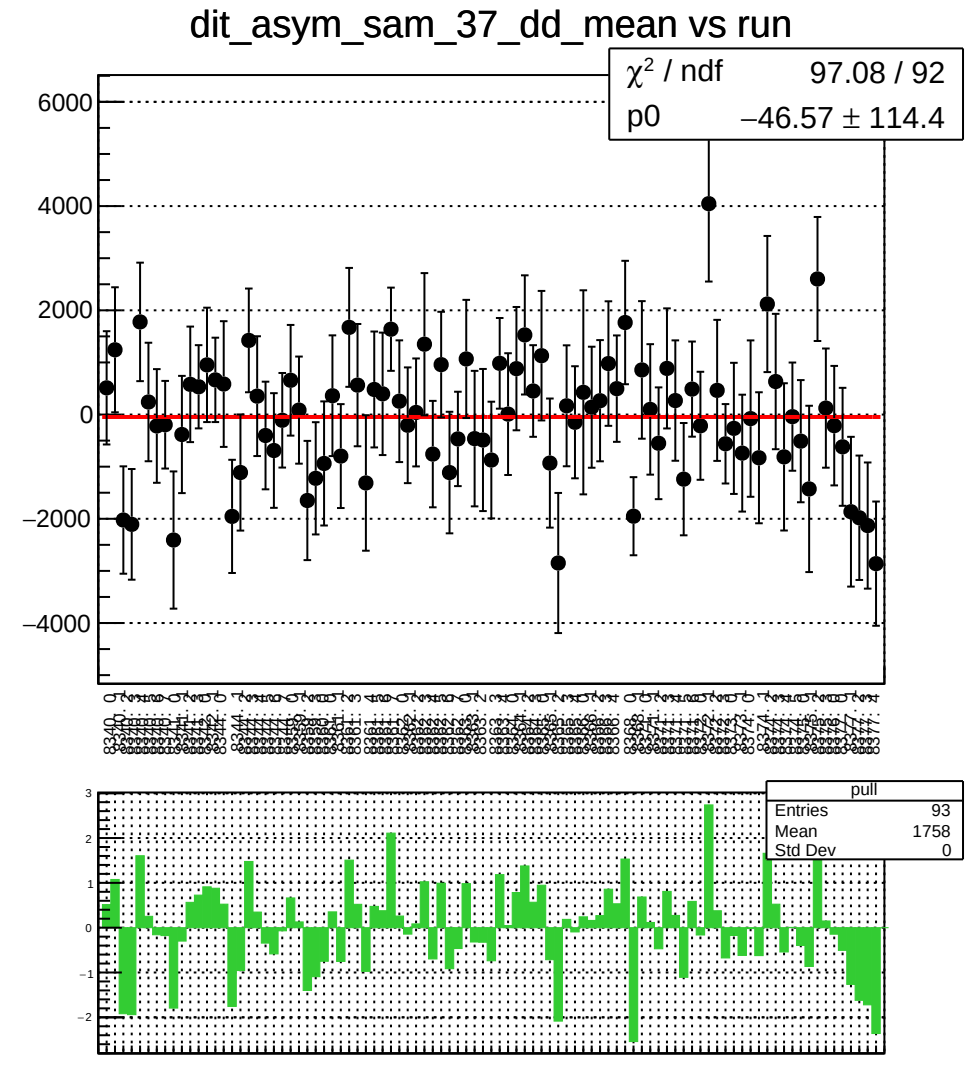

pull1D
Entries 93
Mean −0.005822
Std Dev 1.028

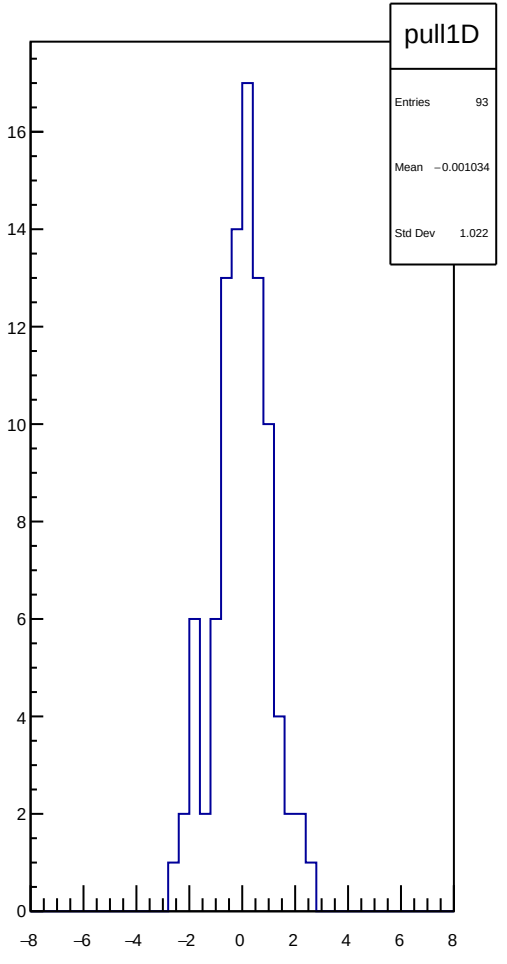

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1.891e+04 / 92
p0 102.9 ± 0.0764
180
160
140
120
100
80

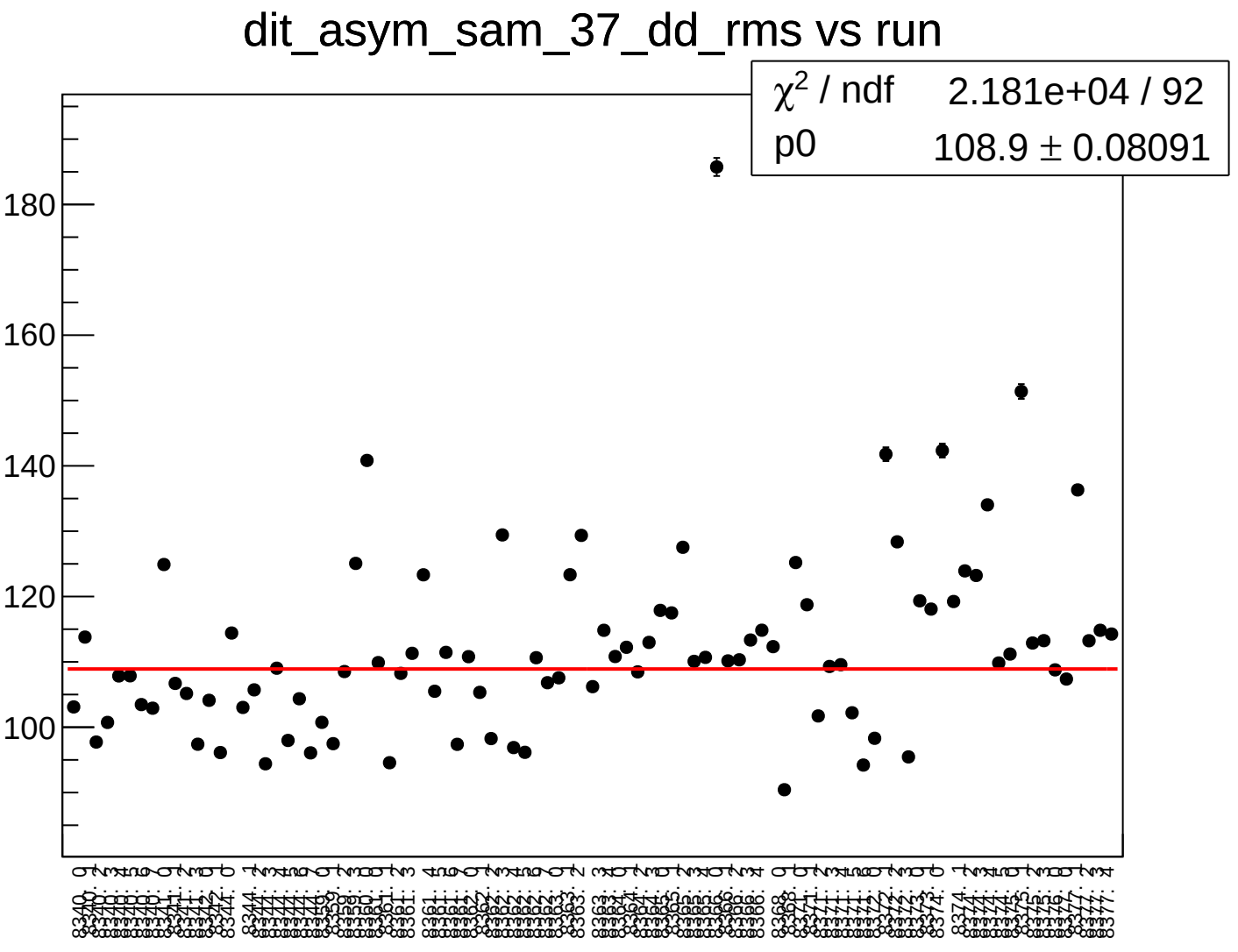

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.4 / 92
p0 −2328 ± 1036
pull
Entries 93
Mean −164.4
Std Dev 0

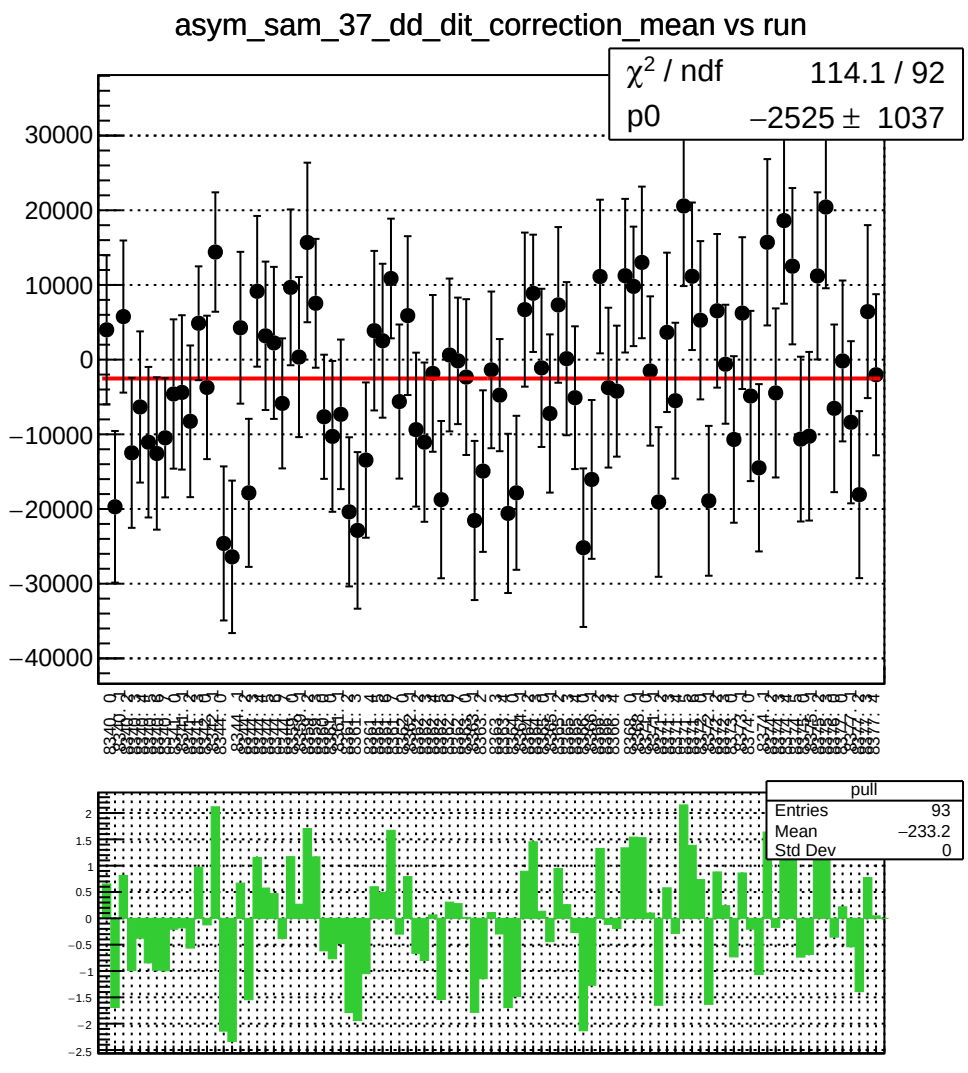

pull1D
Entries 93
Mean −0.02632
Std Dev 1.109

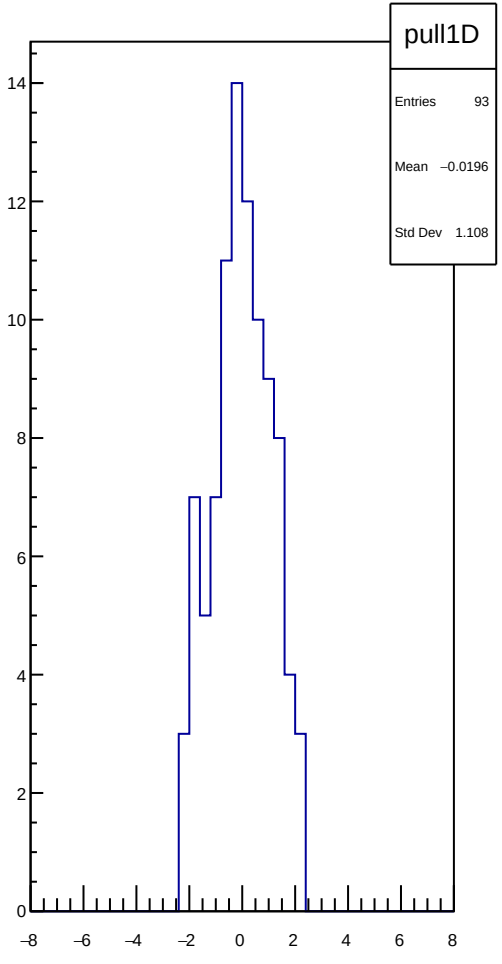

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 2223 / 92
p0 991.5 ± 0.7326
1080
1060
1040
1020
1000
980
960
940
920
900
880
860

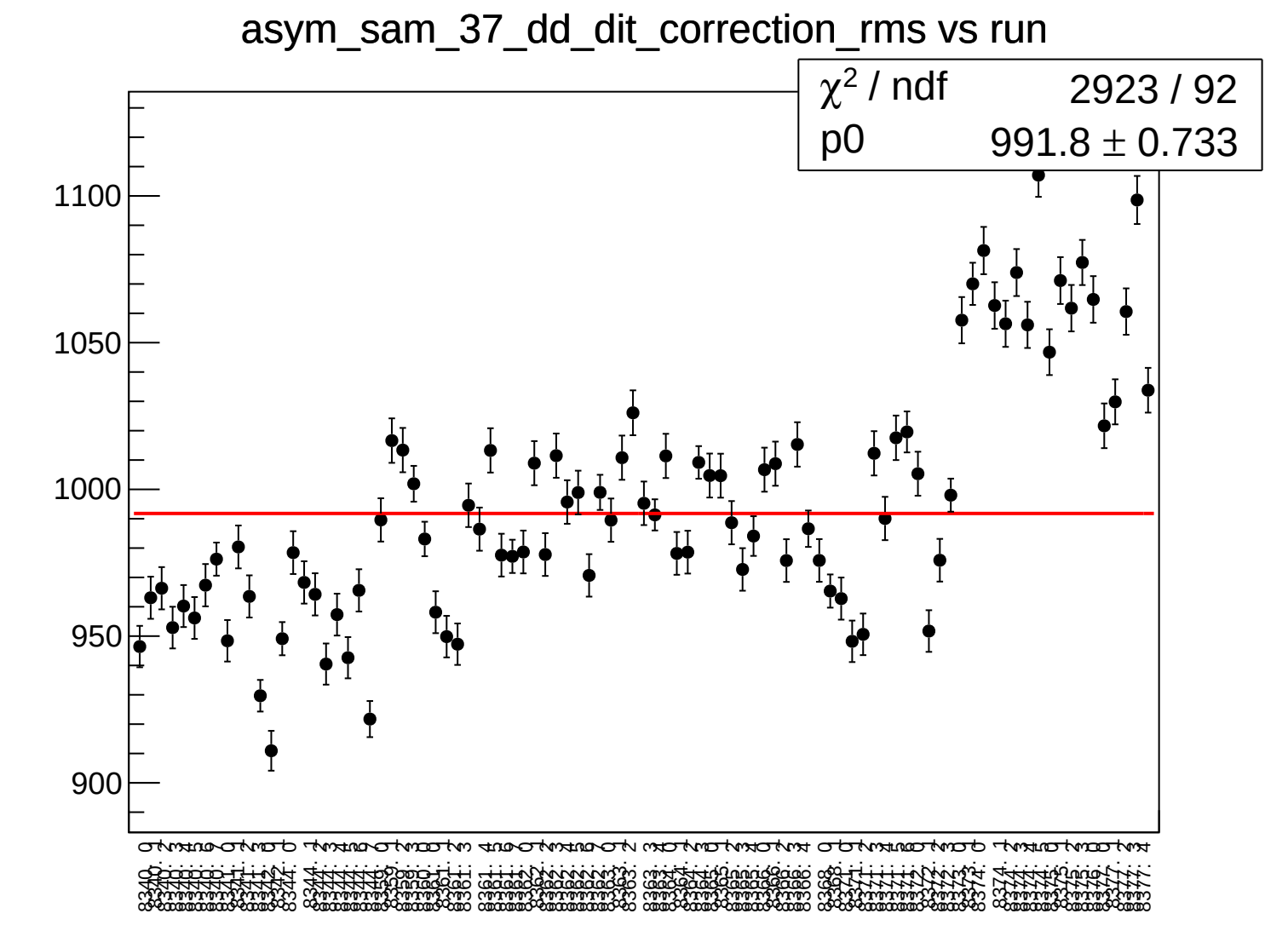

dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.08 / 92
p0 −46.57 ± 114.4
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 1758
Std Dev 0
3
2
1
0
−1
−2

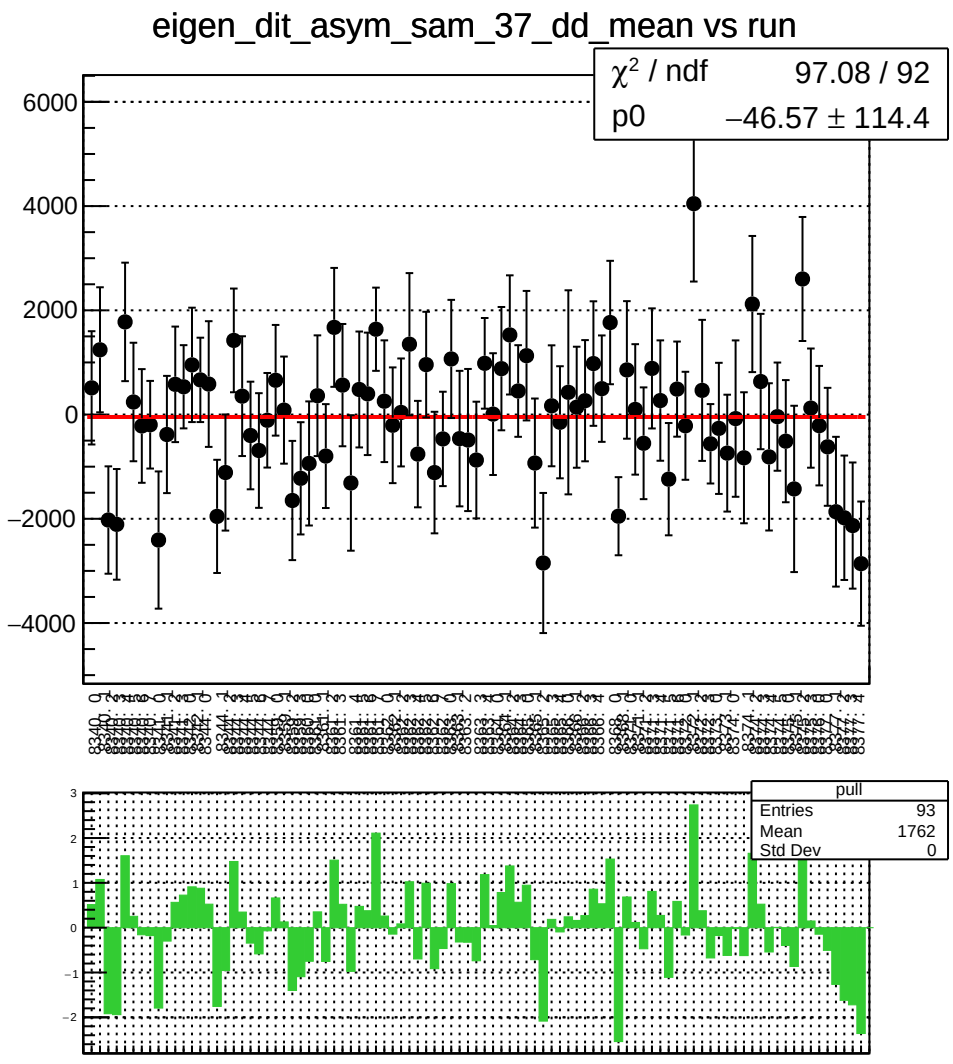

pull1D
Entries 93
Mean −0.001034
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

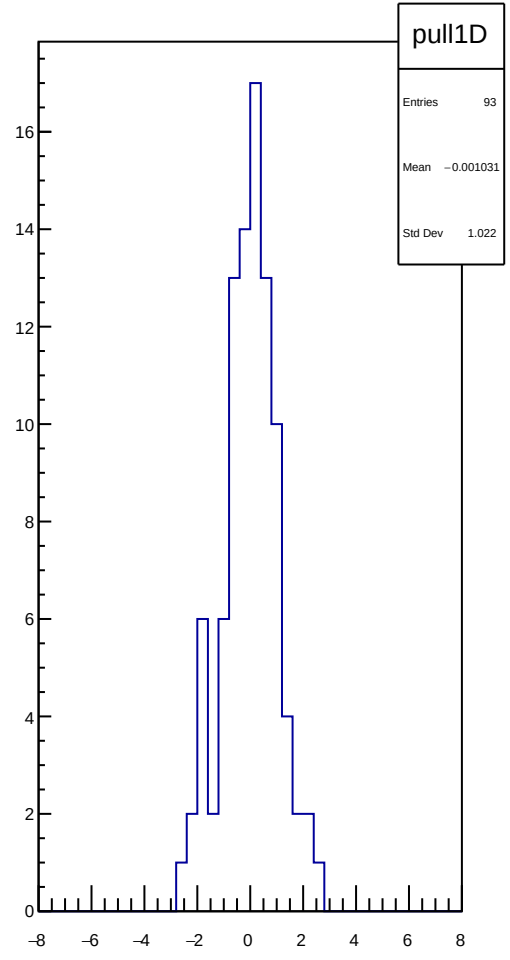

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.181e+04 / 92
p0 108.9 ± 0.08091
180
160
140
120
100

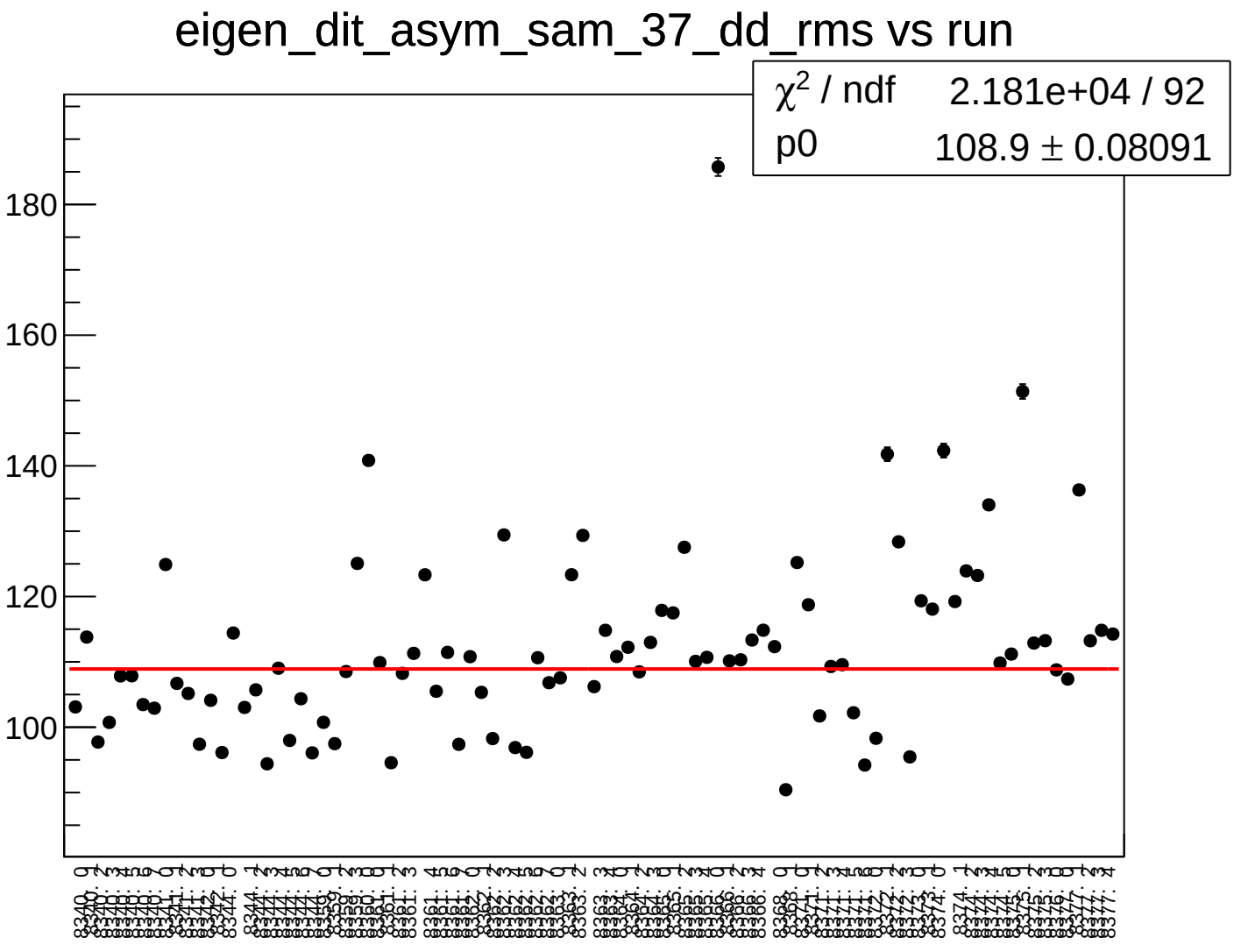

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 114.1 / 92
p0 −2525 ± 1037
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −233.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

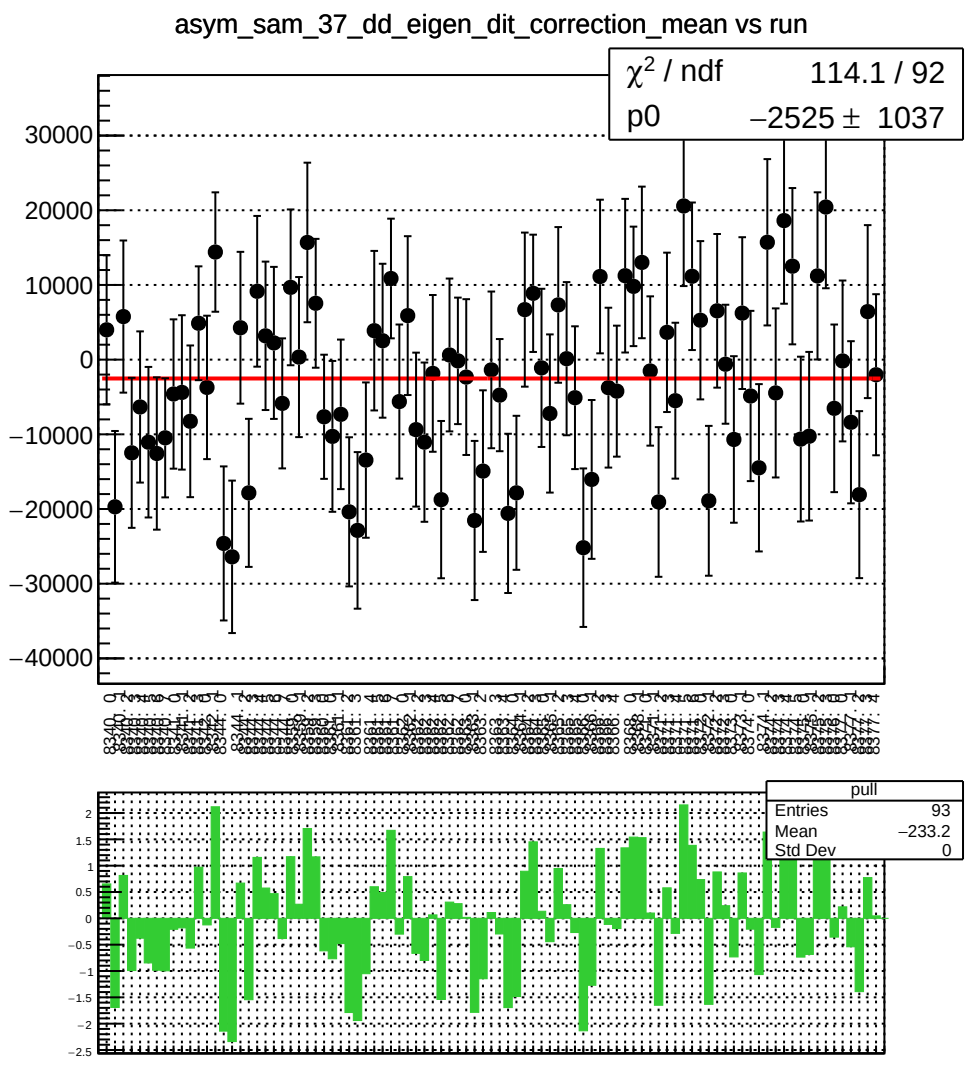

pull1D
Entries 93
Mean −0.0196
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

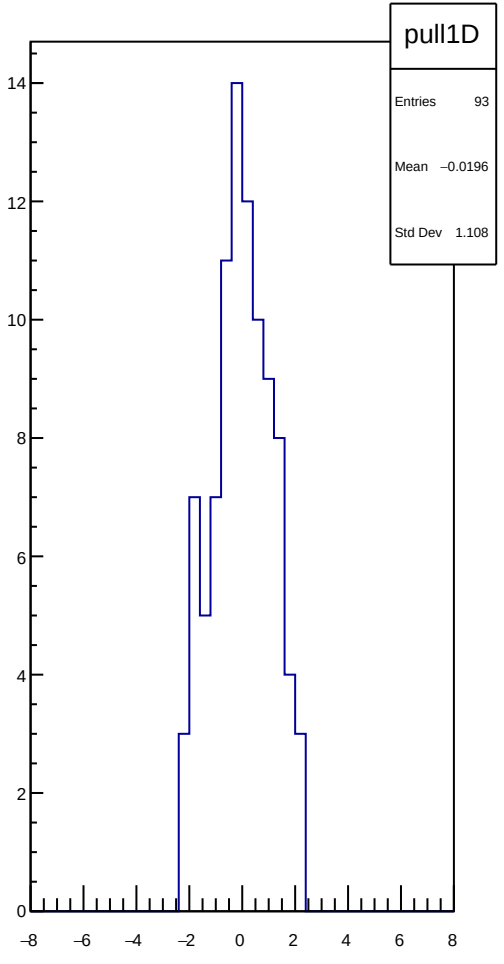

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2923 / 92
p0 991.8 ± 0.733
1100
1050
1000
950
900

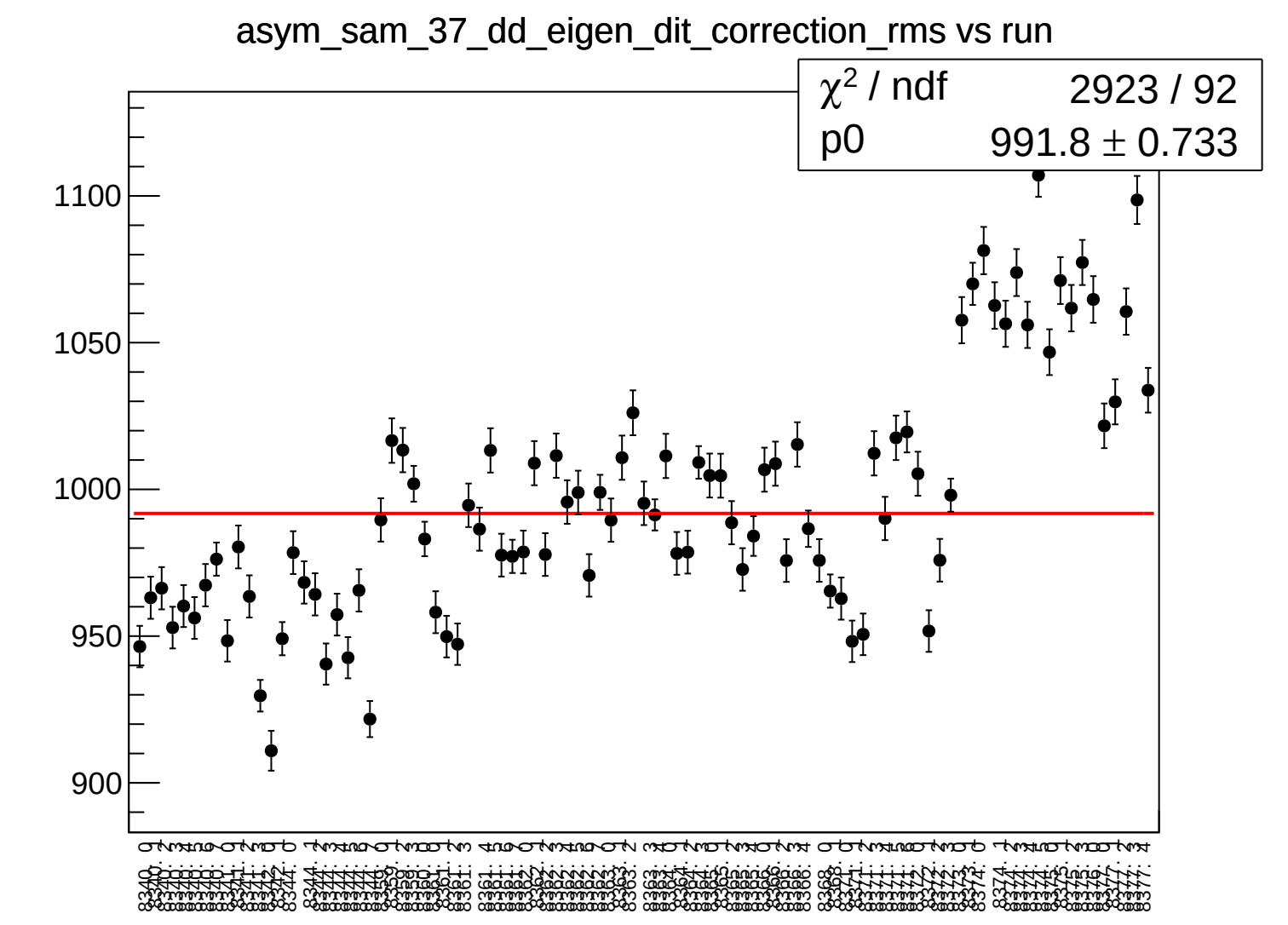

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 97.08 / 92
p0 −46.57 ± 114.4
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 1762
Std Dev 0
3
2
1
0
−1
−2

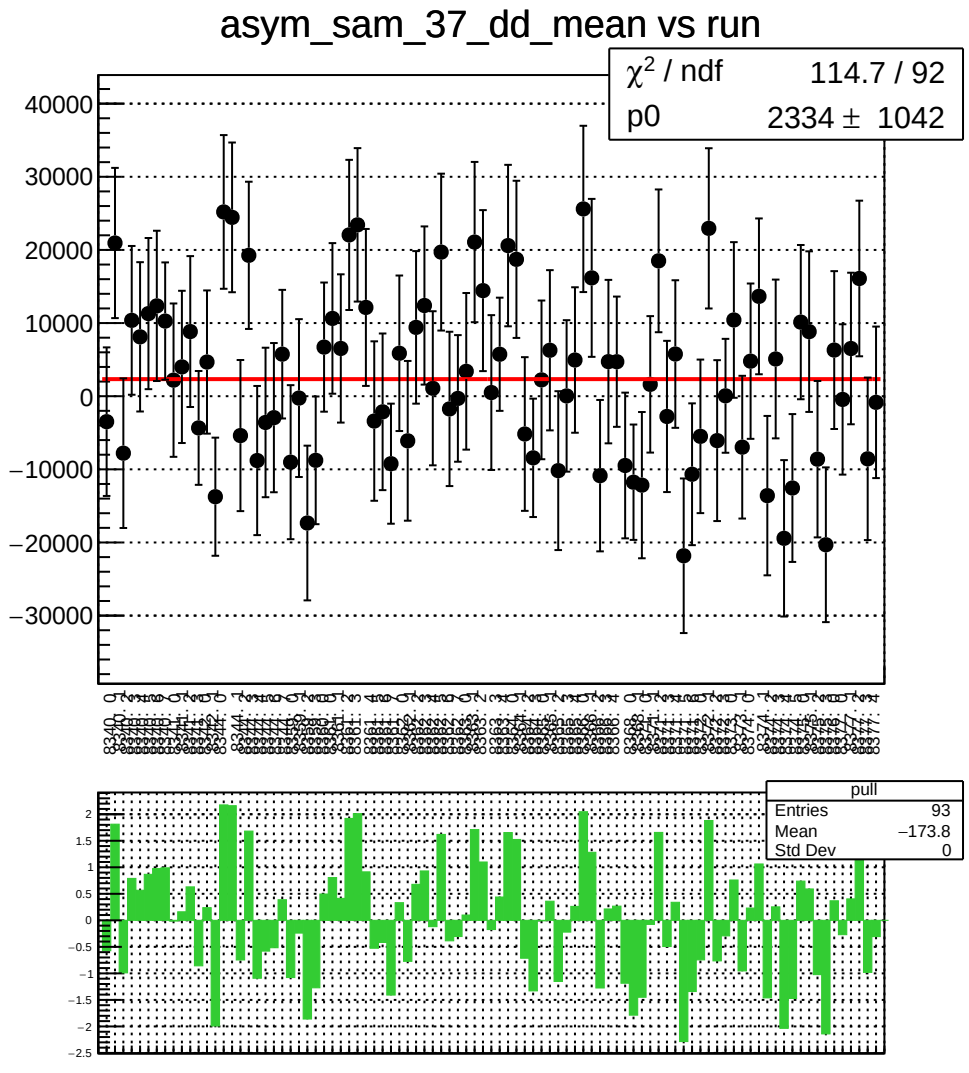

pull1D
Entries 93
Mean −0.001031
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

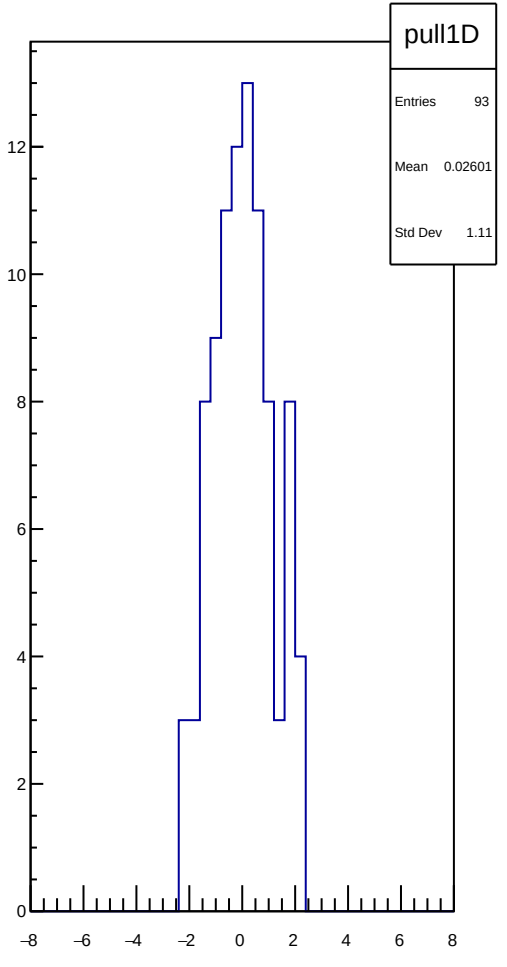

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.181e+04 / 92
p0 108.9 ± 0.08091
180
160
140
120
100

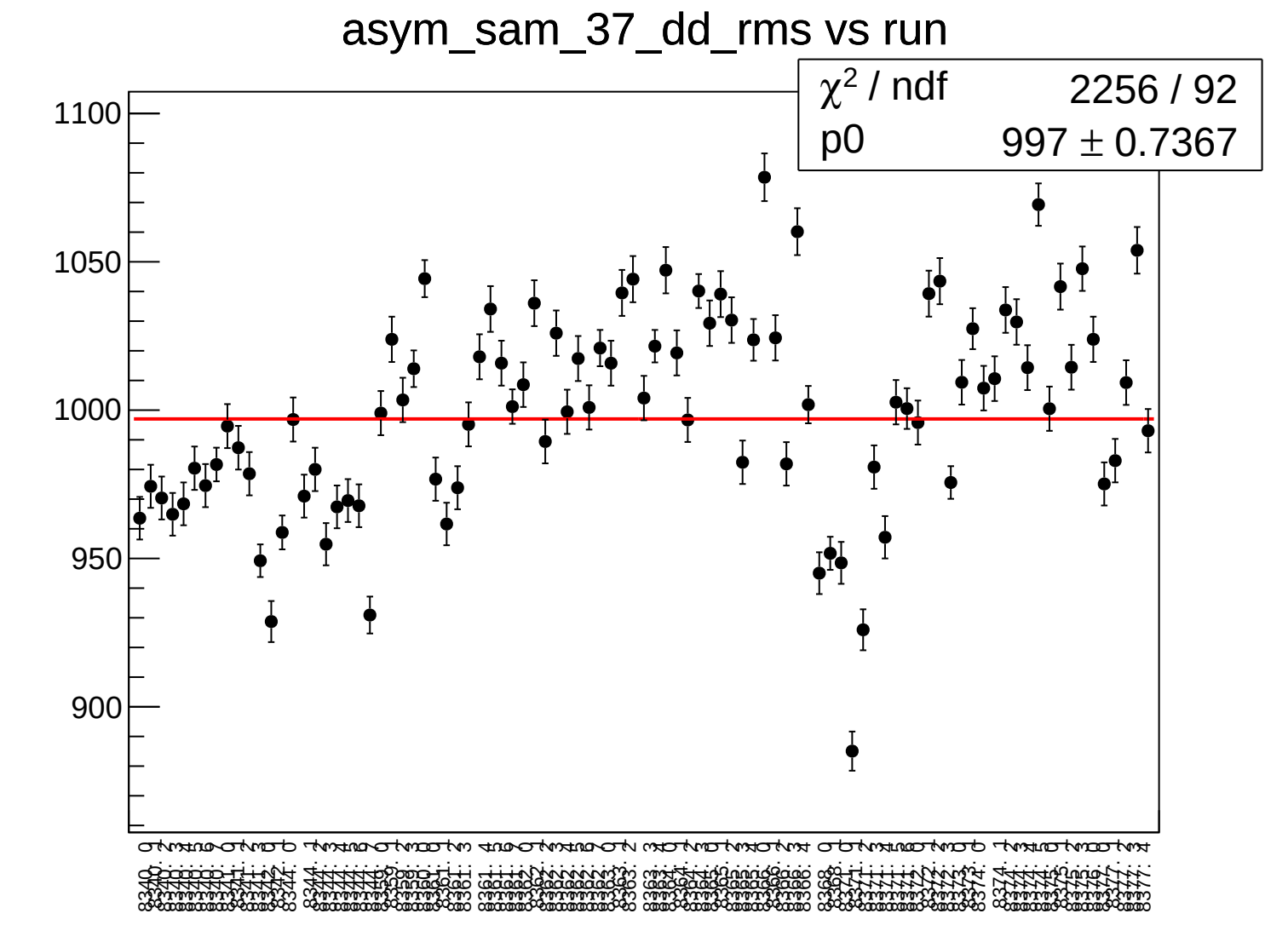

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 114.1 / 92
p0 −2525 ± 1037
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −233.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

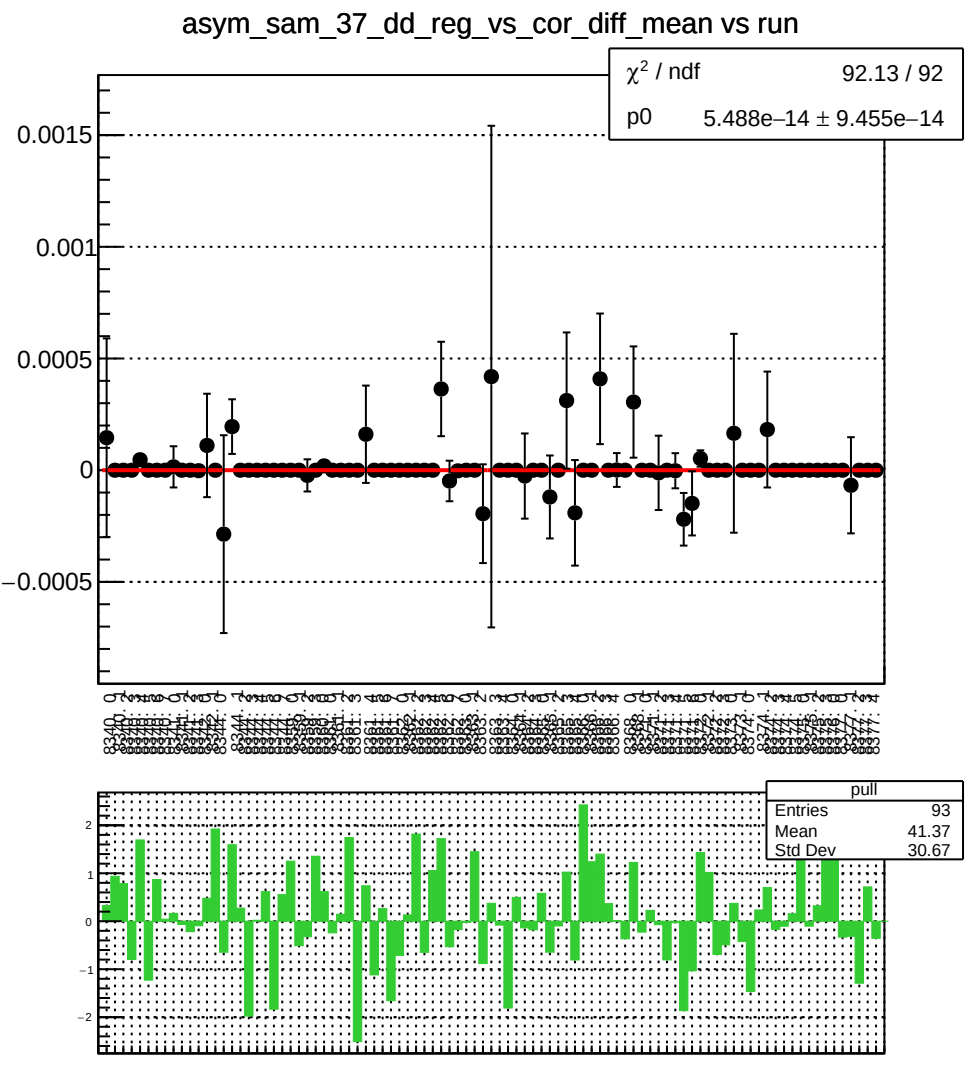

pull1D
Entries 93
Mean −0.0196
Std Dev 1.108
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

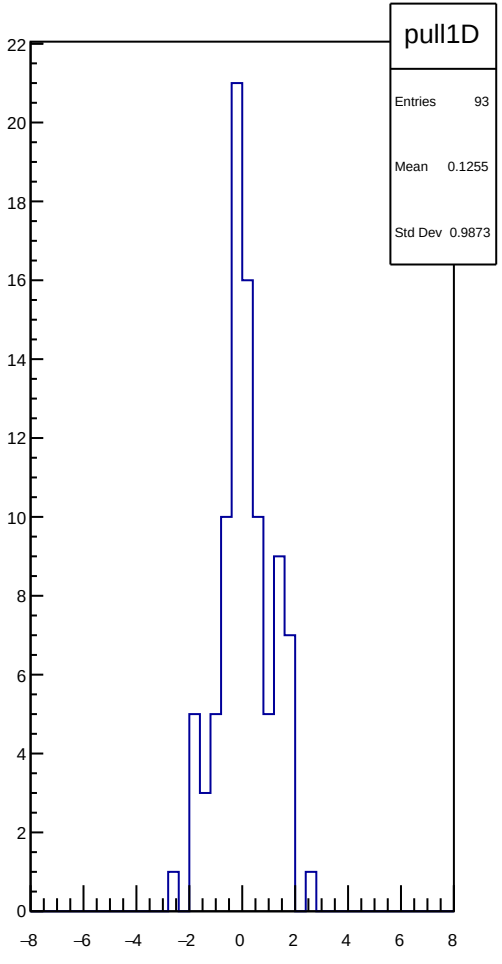

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2923 / 92
p0 991.8 ± 0.733
1100
1050
1000
950
900

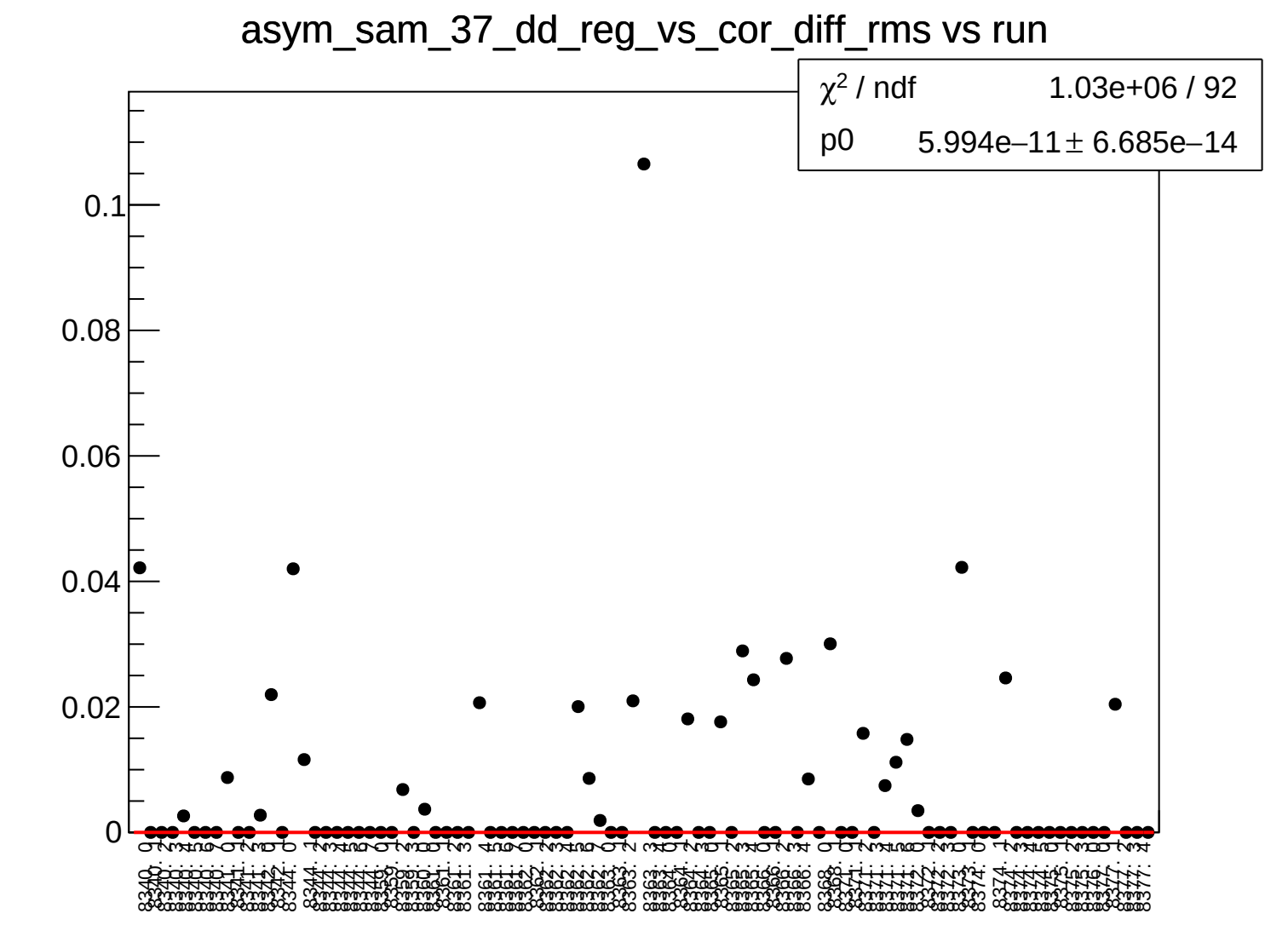

asym_sam_37_dd_mean vs run
χ² / ndf 114.7 / 92
p0 2334 ± 1042
pull
Entries 93
Mean −173.8
Std Dev 0

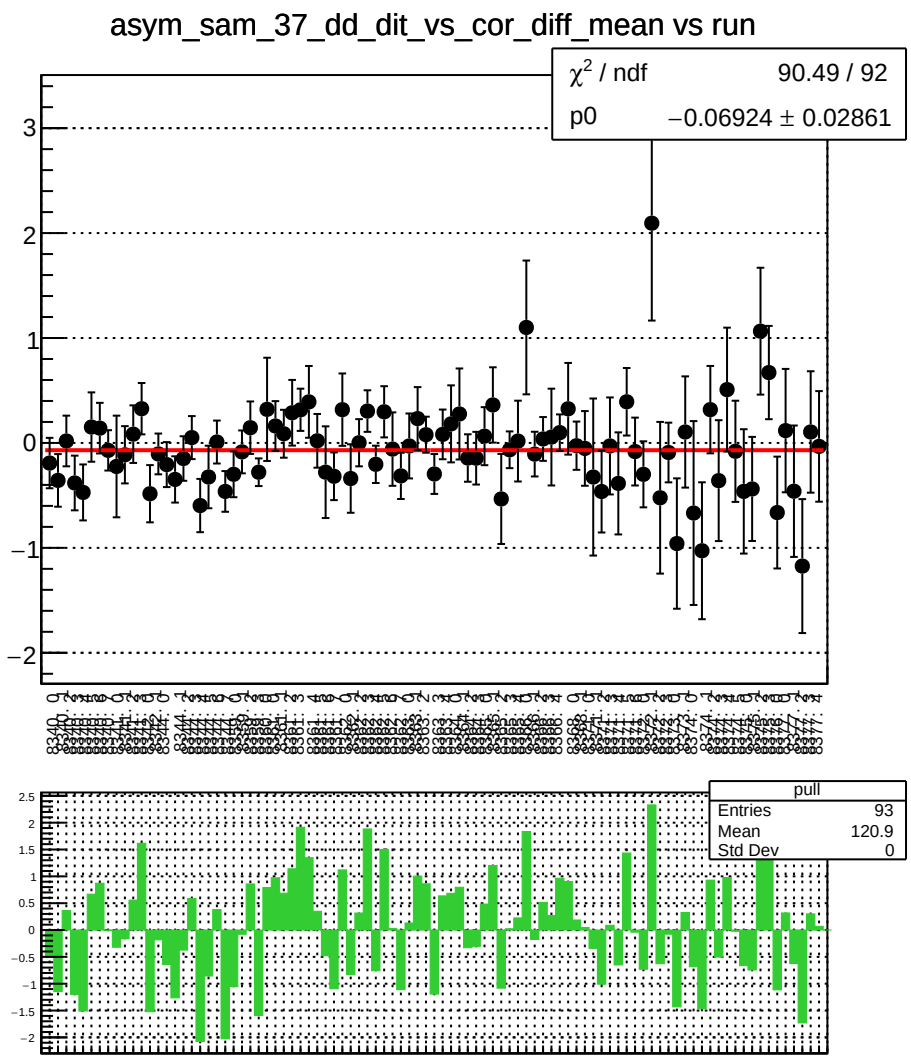

pull1D
Entries 93
Mean 0.02601
Std Dev 1.11

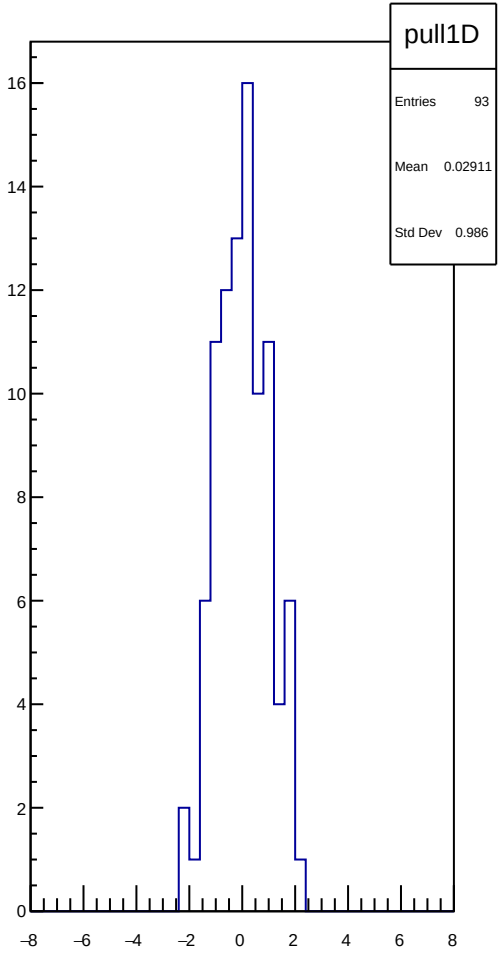

asym_sam_37_dd_rms vs run
χ² / ndf 2256 / 92
p0 997 ± 0.7367
1100
1050
1000
950
900

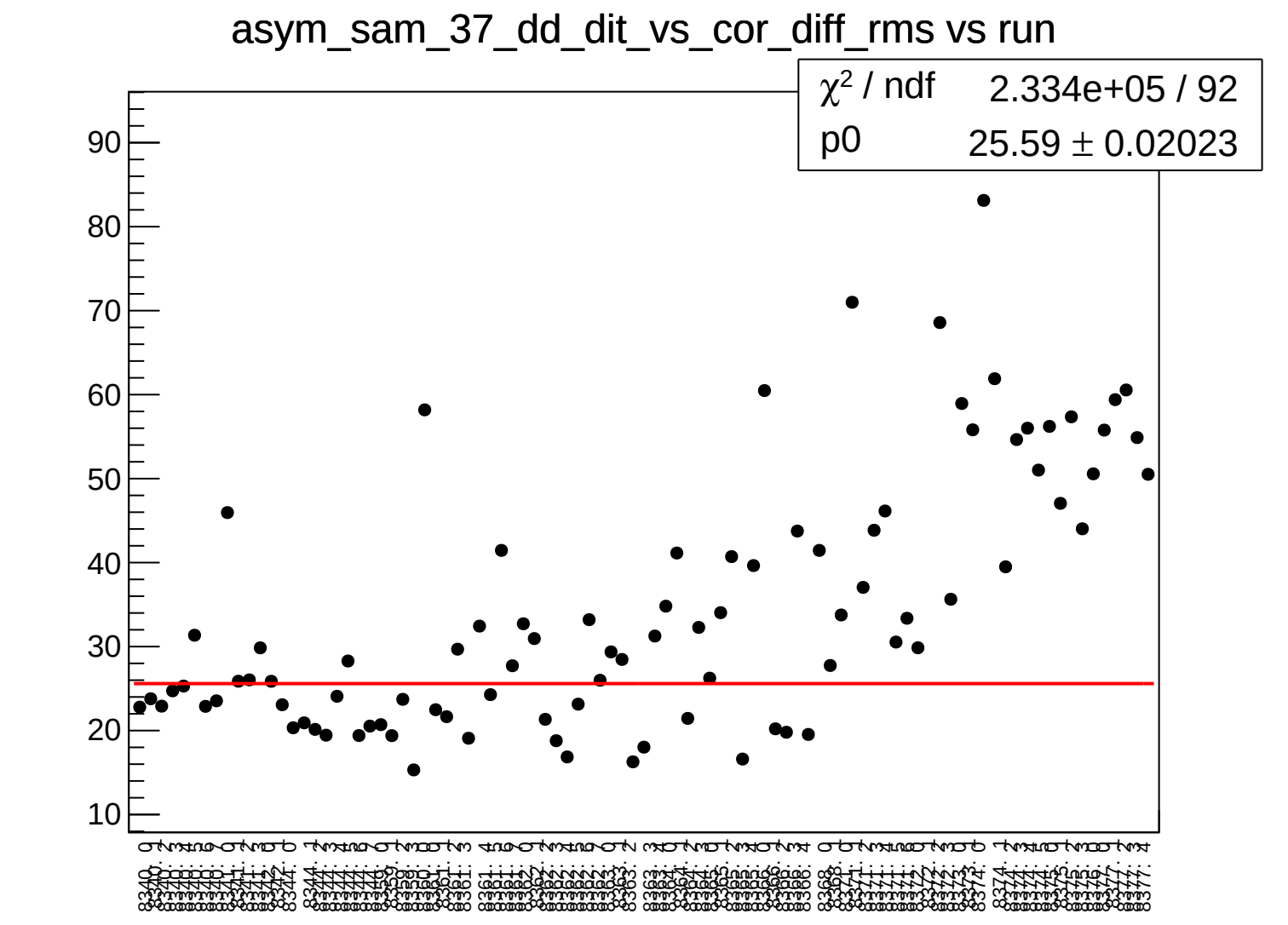

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.13 / 92
p0 5.488e−14 ± 9.455e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 93
Mean 41.37
Std Dev 30.67
2
1
0
−1
−2

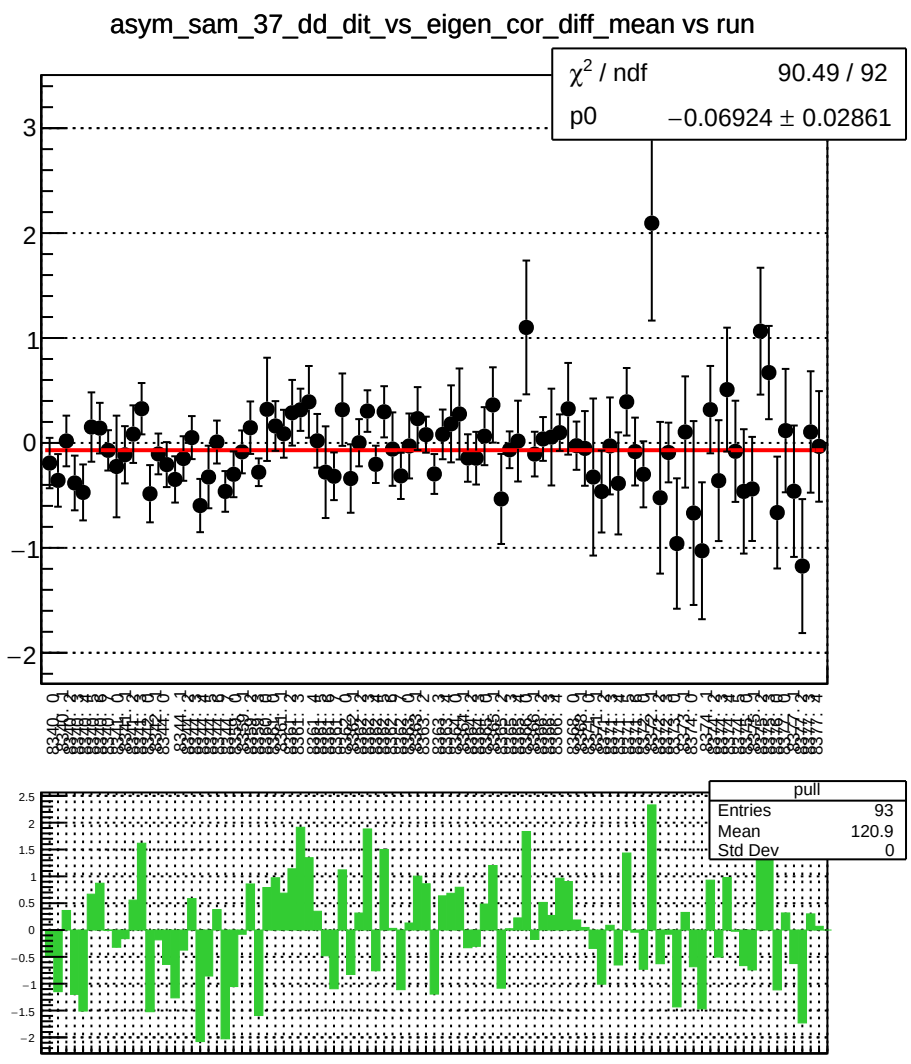

pull1D
Entries 93
Mean 0.1255
Std Dev 0.9873
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

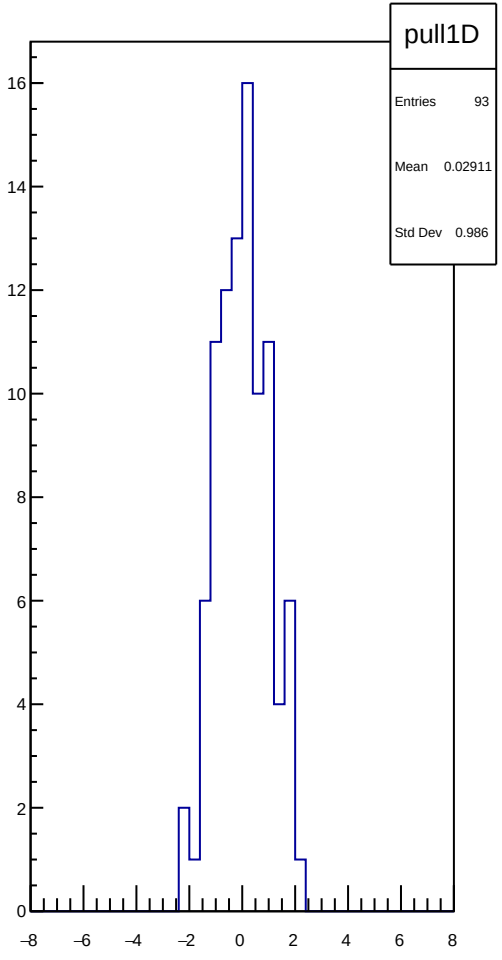

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.03e+06 / 92
p0 5.994e−11 ± 6.685e−14
0.1
0.08
0.06
0.04
0.02
0

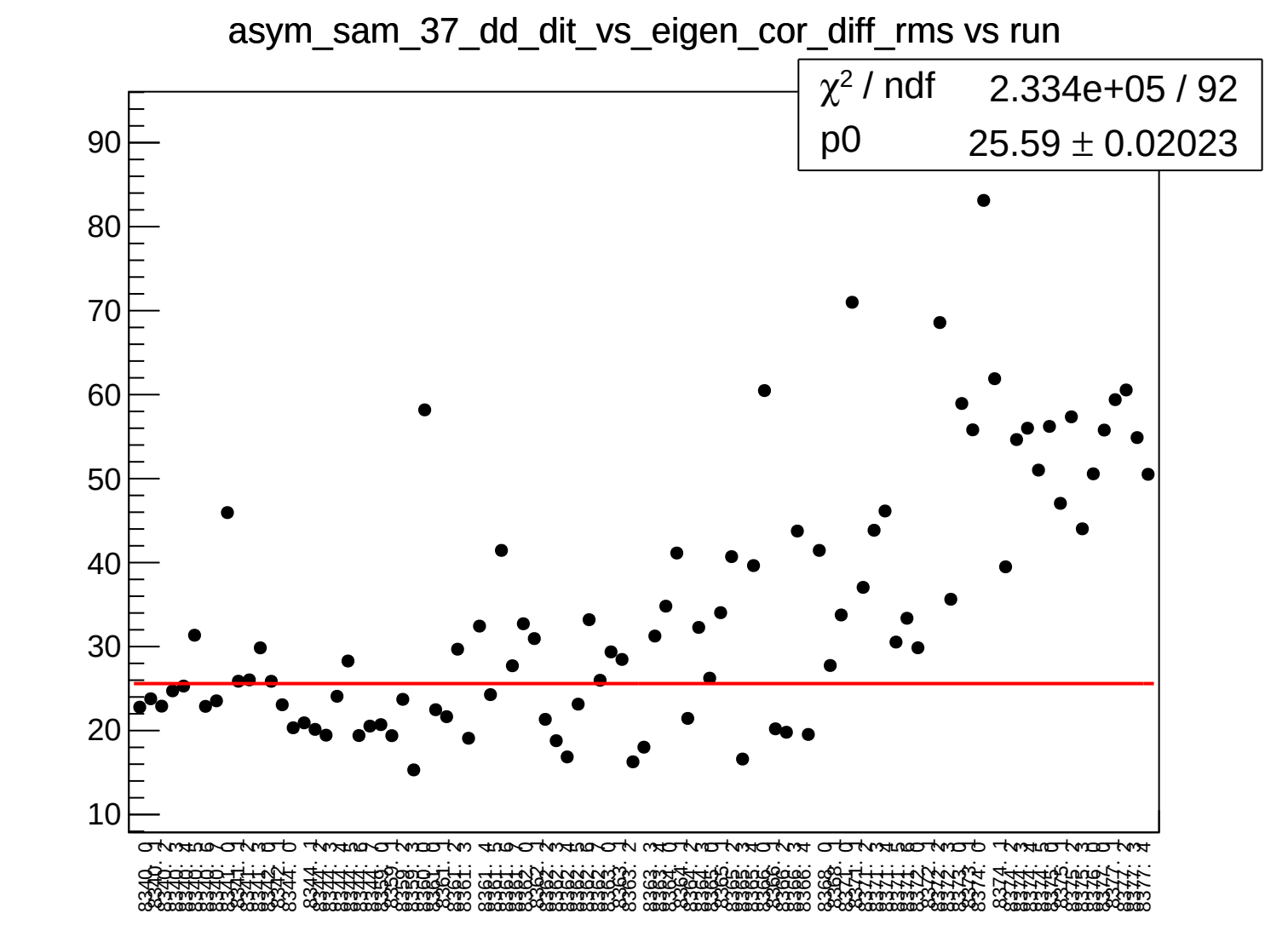

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.49 / 92
p0 −0.06924 ± 0.02861
pull
Entries 93
Mean 120.9
Std Dev 0

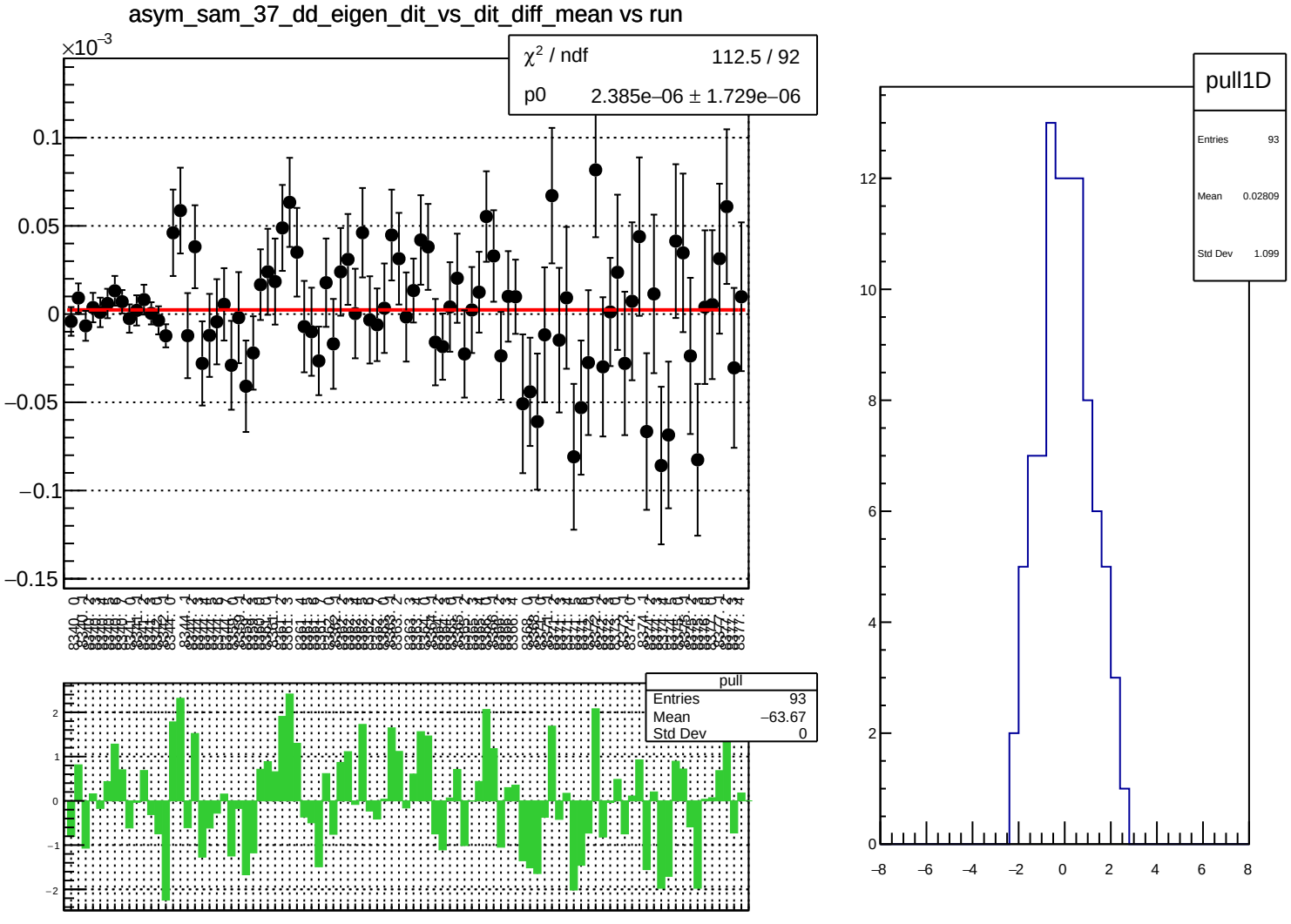

pull1D
Entries 93
Mean 0.02911
Std Dev 0.986

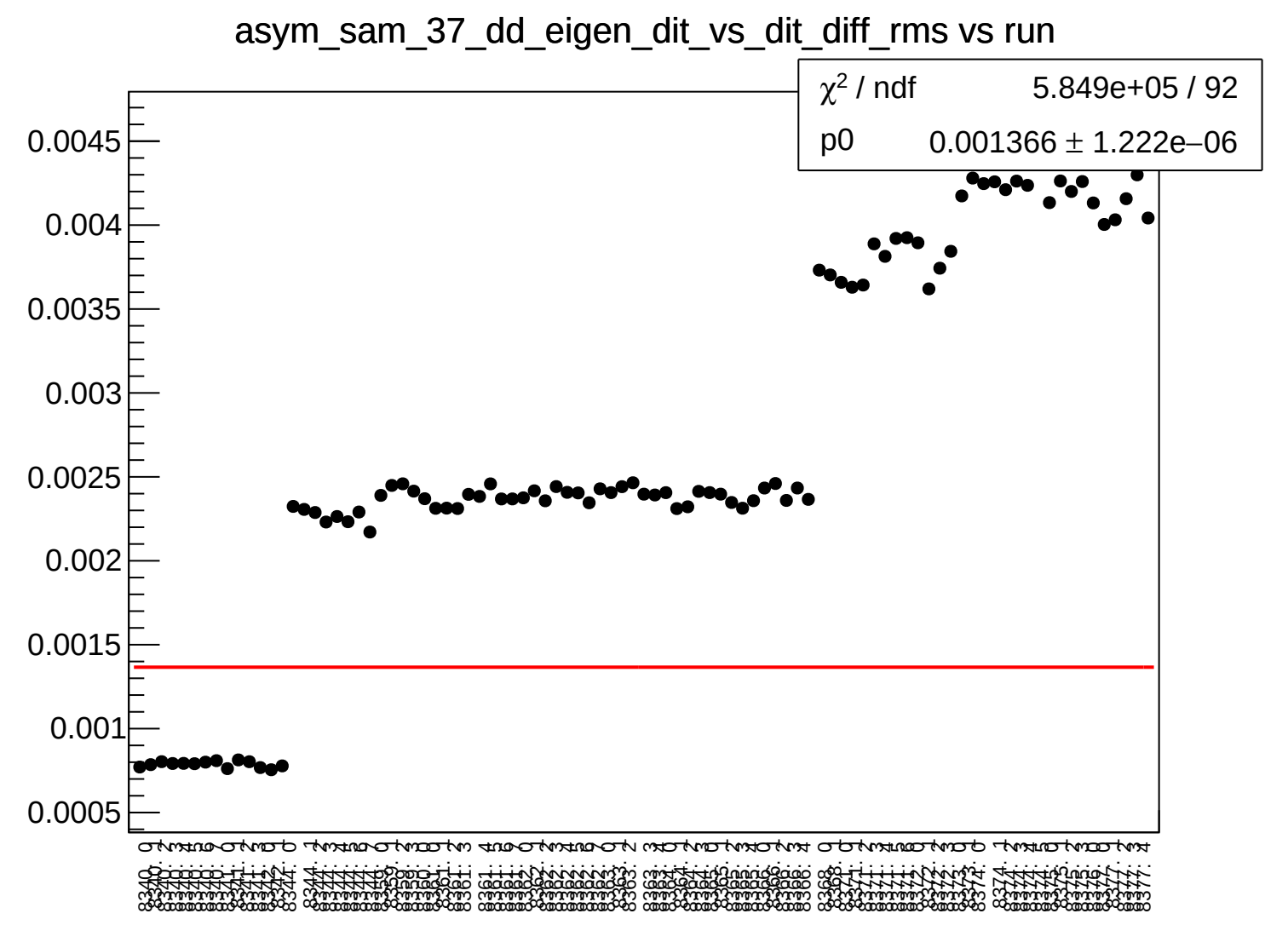

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.334e+05 / 92
p0 25.59 ± 0.02023
90
80
70
60
50
40
30
20
10

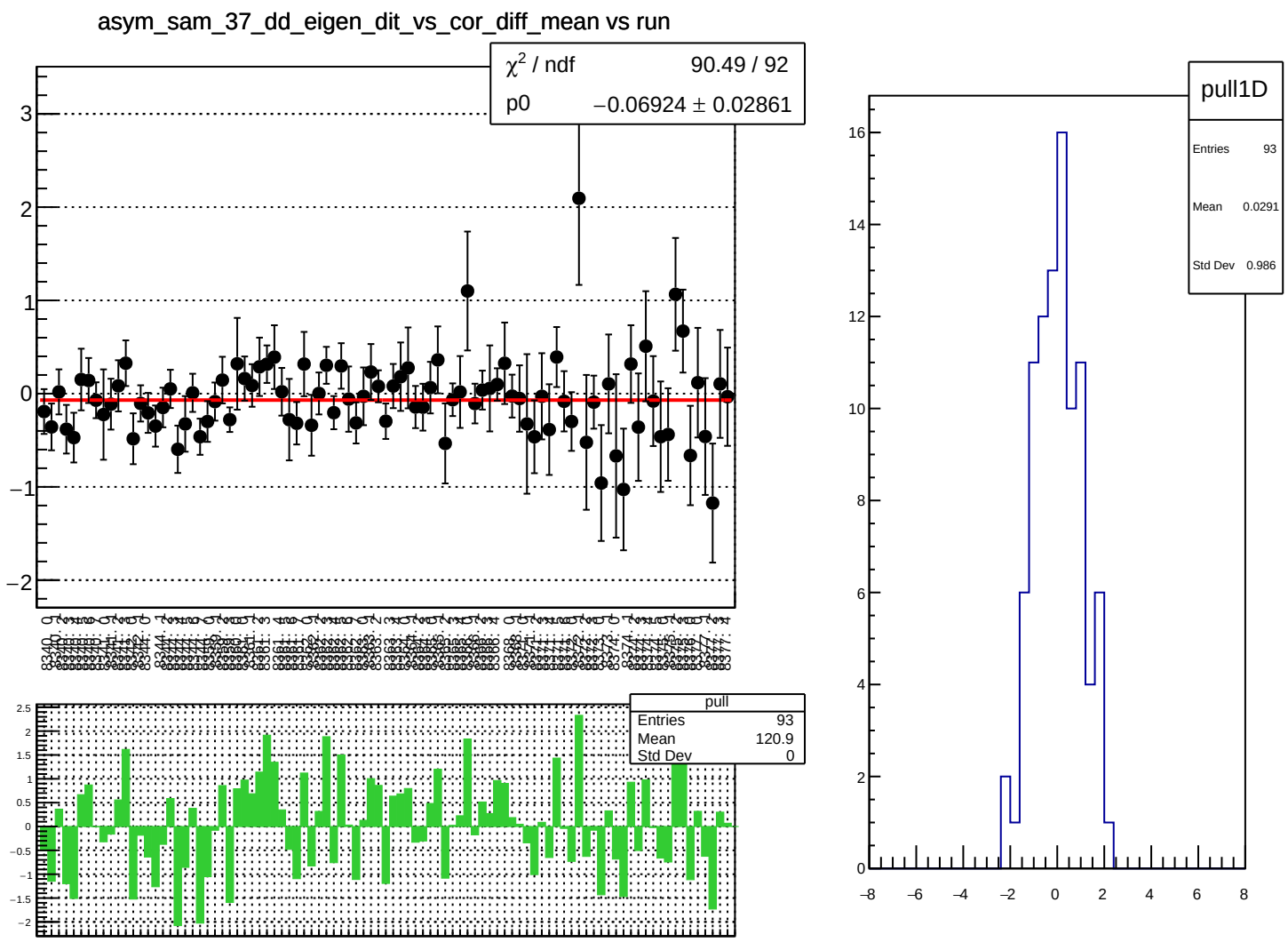

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.49 / 92
p0 −0.06924 ± 0.02861
pull
Entries 93
Mean 120.9
Std Dev 0

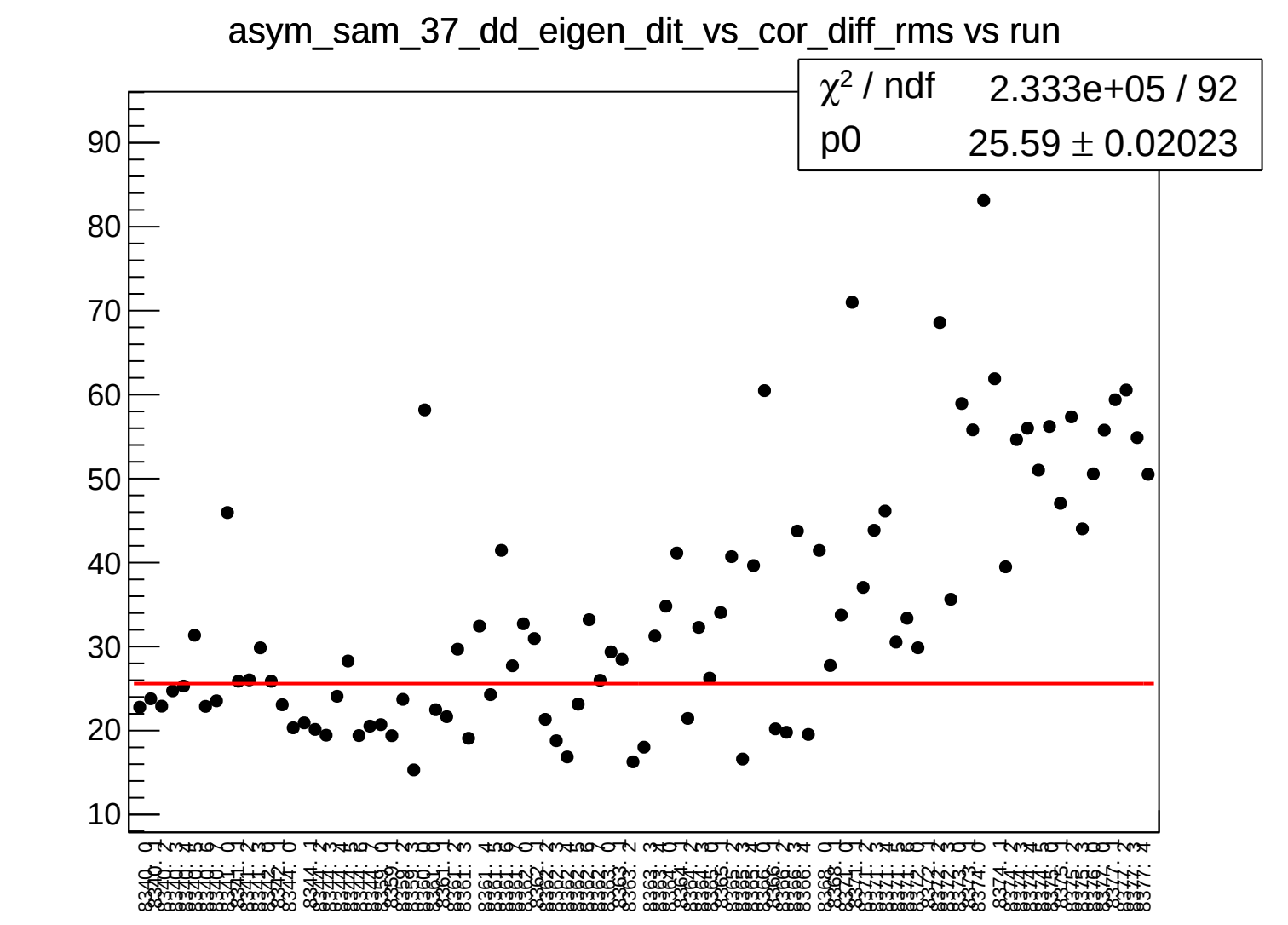

pull1D
Entries 93
Mean 0.02911
Std Dev 0.986

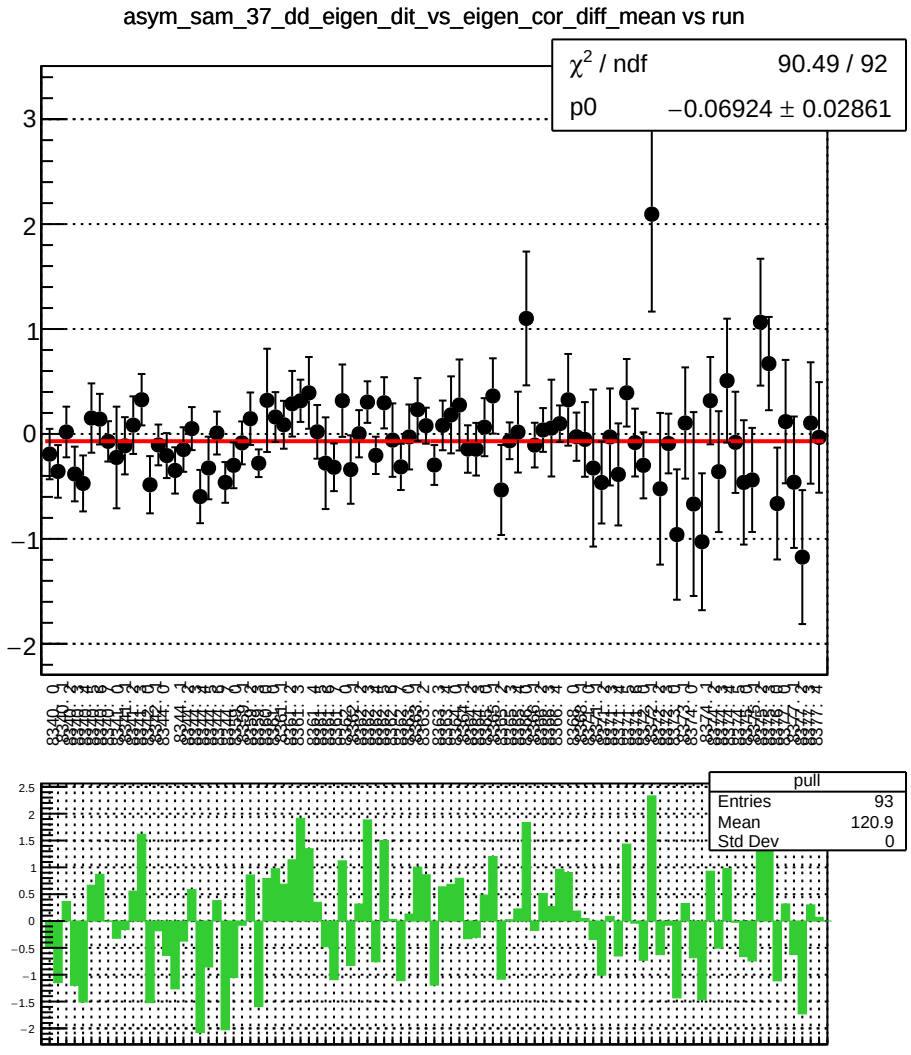

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.334e+05 / 92
p0 25.59 ± 0.02023
90
80
70
60
50
40
30
20
10

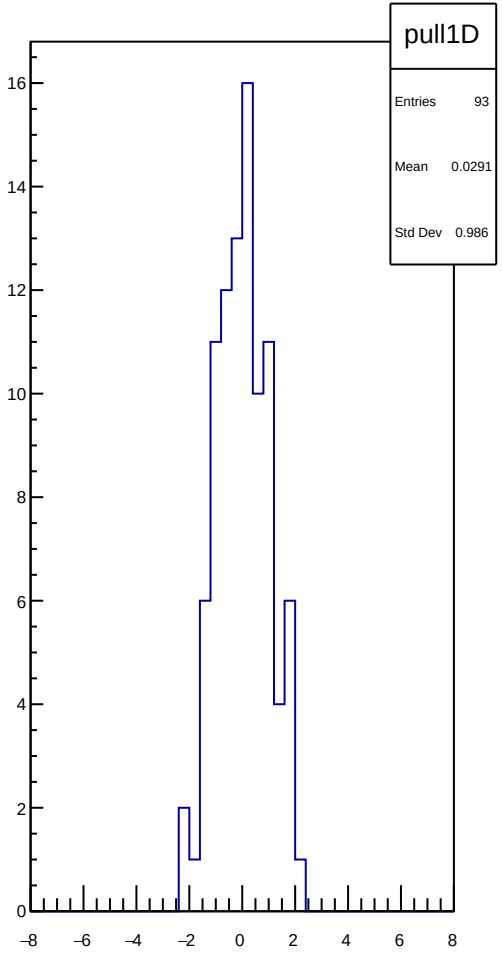

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.5 / 92
p0 2.385e−06 ± 1.729e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 93
Mean −63.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02809
Std Dev 1.099
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

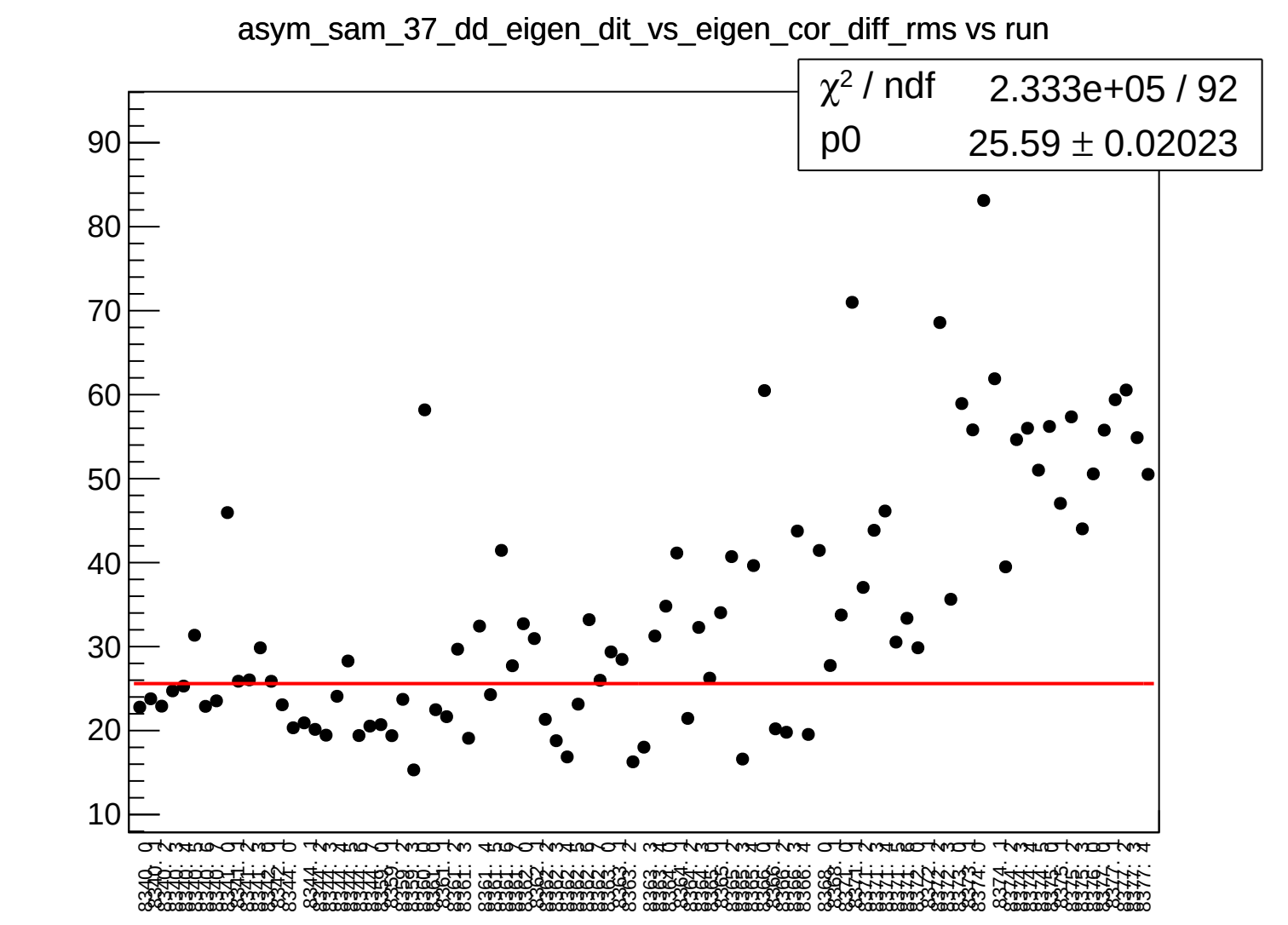

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.849e+05 / 92
p0 0.001366 ± 1.222e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

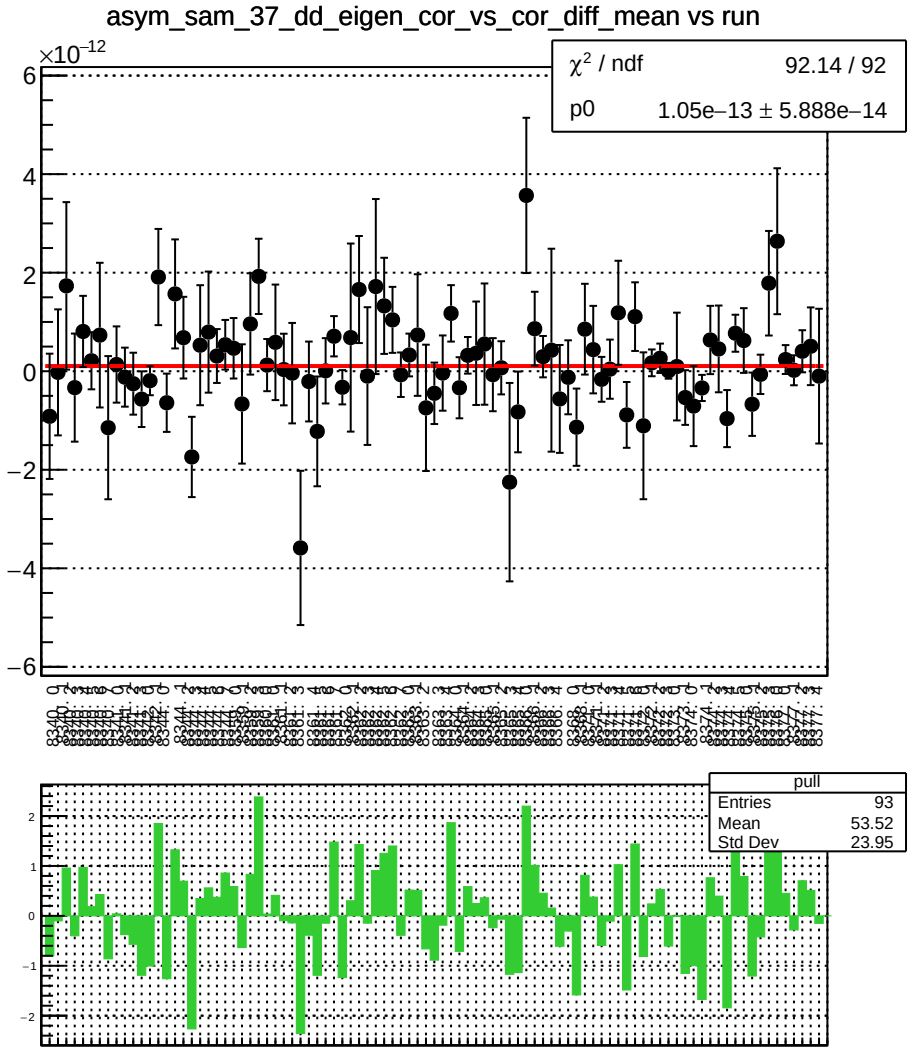

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.49 / 92
p0 −0.06924 ± 0.02861
pull
Entries 93
Mean 120.9
Std Dev 0
pull1D
Entries 93
Mean 0.0291
Std Dev 0.986

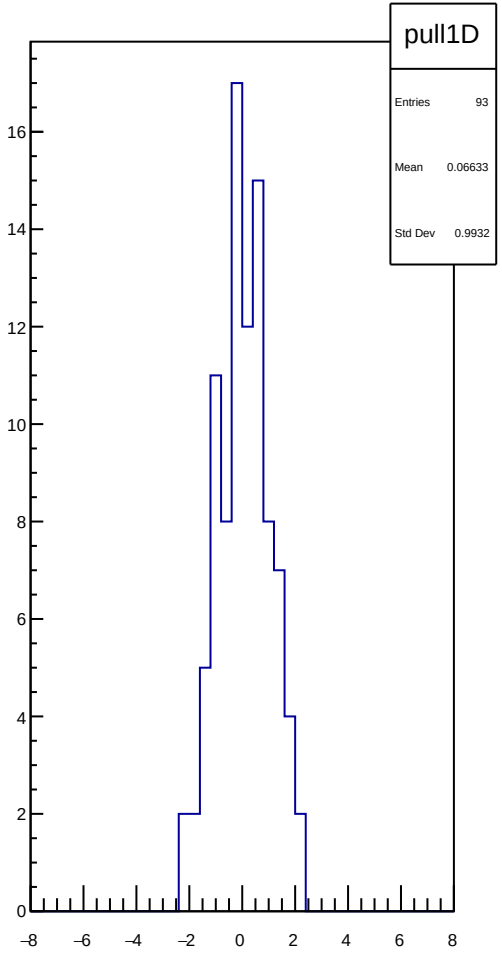

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 92
p0 25.59 ± 0.02023
90
80
70
60
50
40
30
20
10

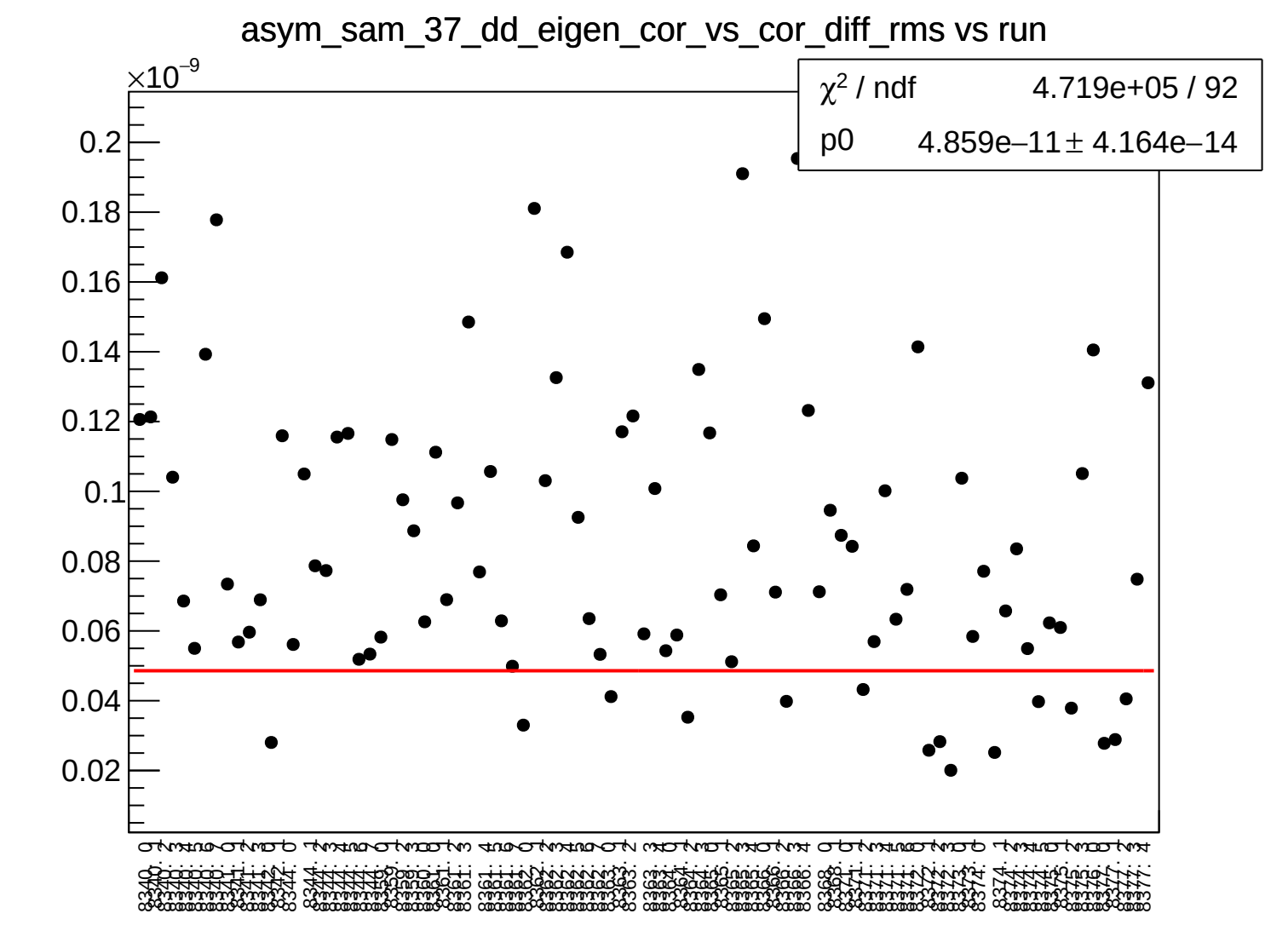

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.49 / 92
p0 −0.06924 ± 0.02861
pull
Entries 93
Mean 120.9
Std Dev 0

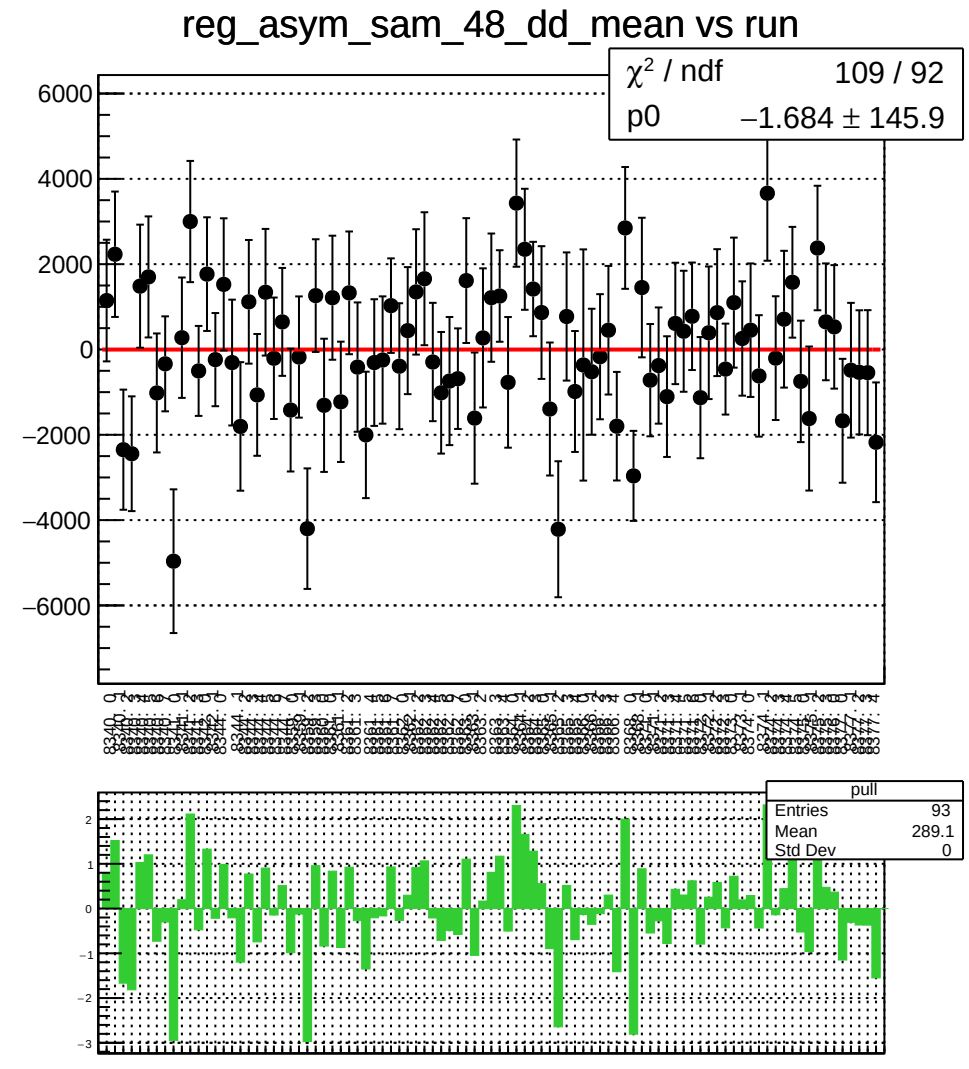

pull1D
Entries 93
Mean 0.0291
Std Dev 0.986

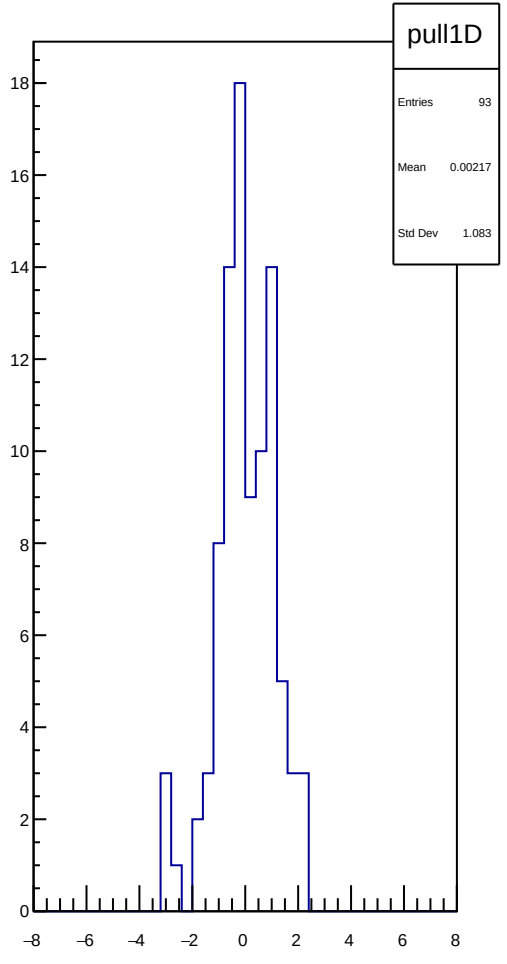

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 92
p0 25.59 ± 0.02023
90
80
70
60
50
40
30
20
10

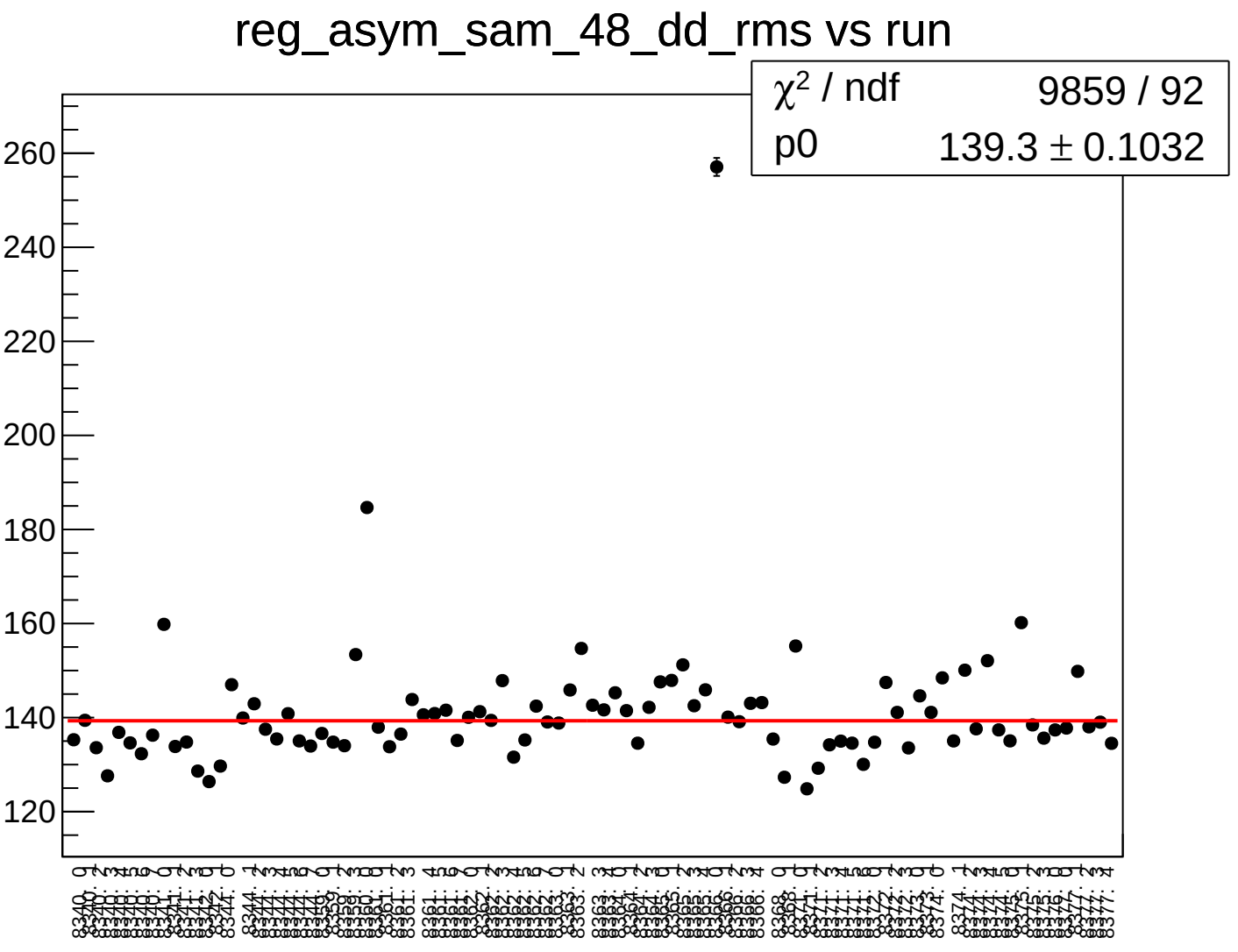

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.14 / 92
p0 1.05e−13 ± 5.888e−14
pull
Entries 93
Mean 53.52
Std Dev 23.95

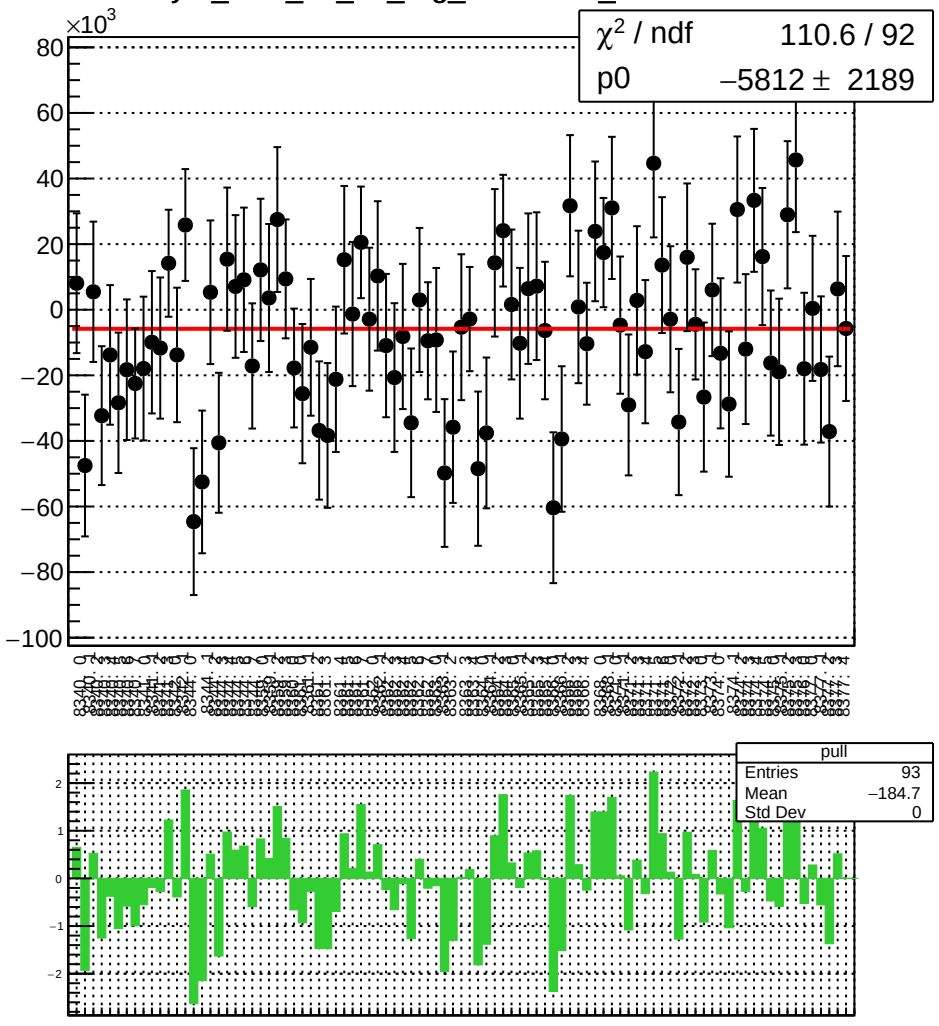

pull1D
Entries 93
Mean 0.06633
Std Dev 0.9932

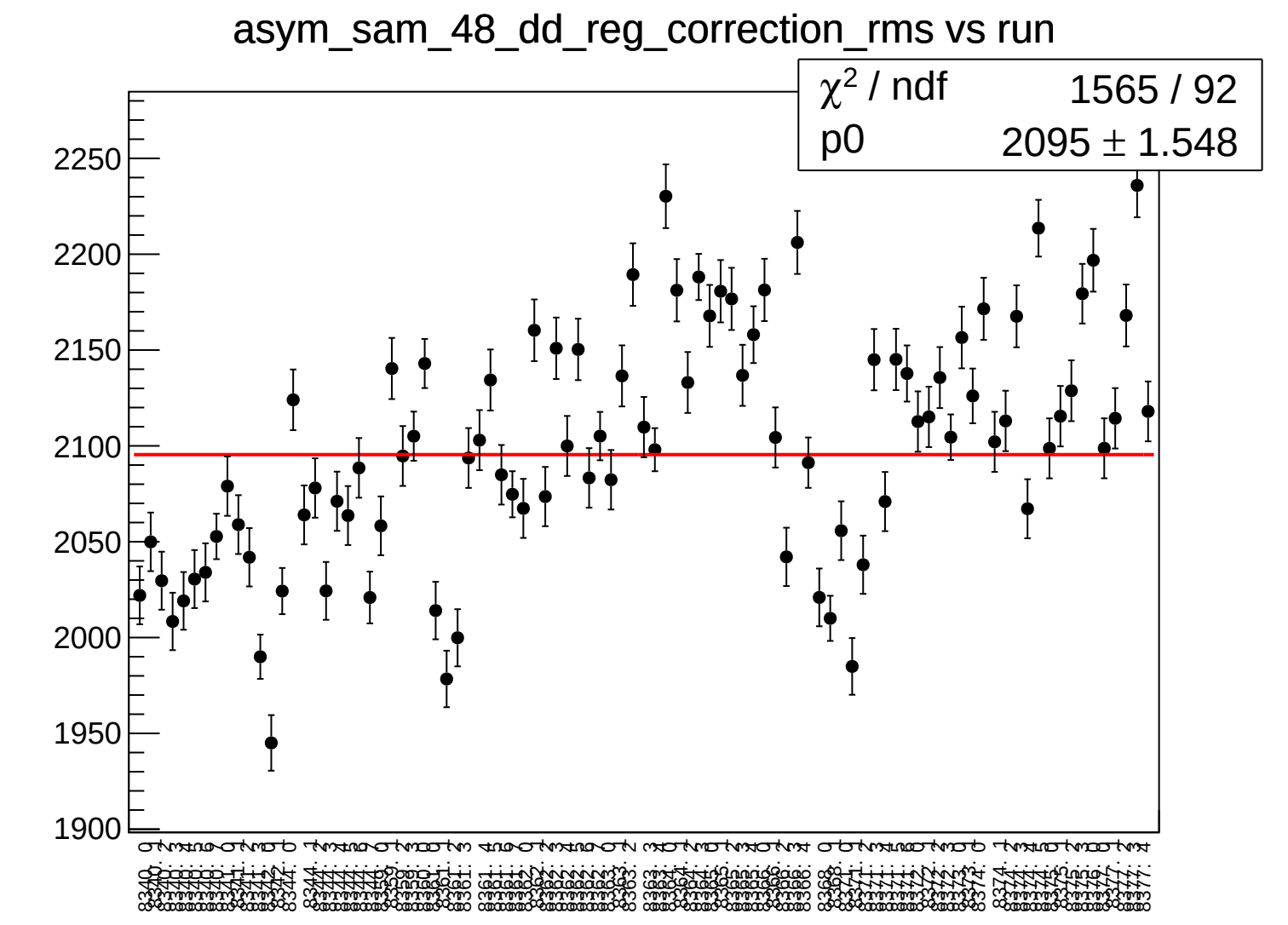

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.719e+05 / 92
p0 4.859e−11 ± 4.164e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

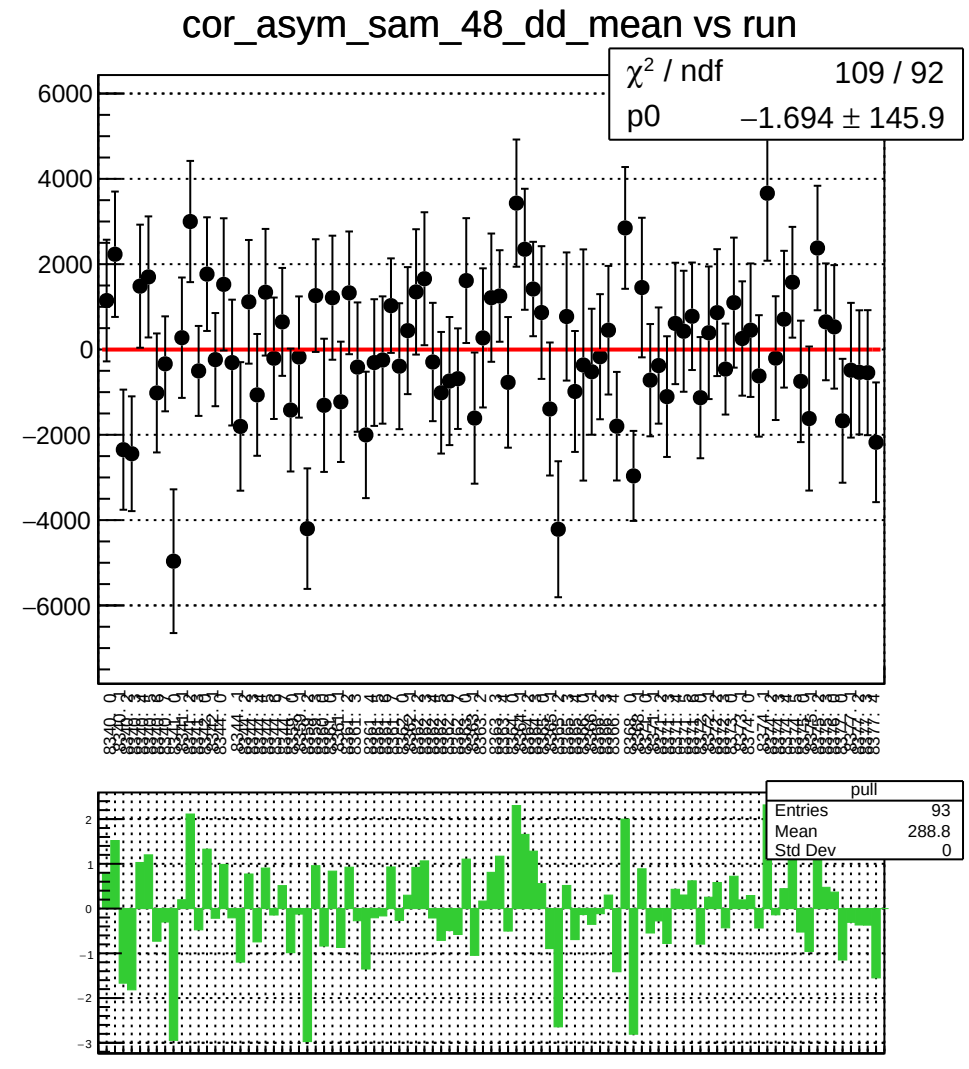

reg_asym_sam_48_dd_mean vs run
χ² / ndf 109 / 92
p0 −1.684 ± 145.9
pull
Entries 93
Mean 289.1
Std Dev 0

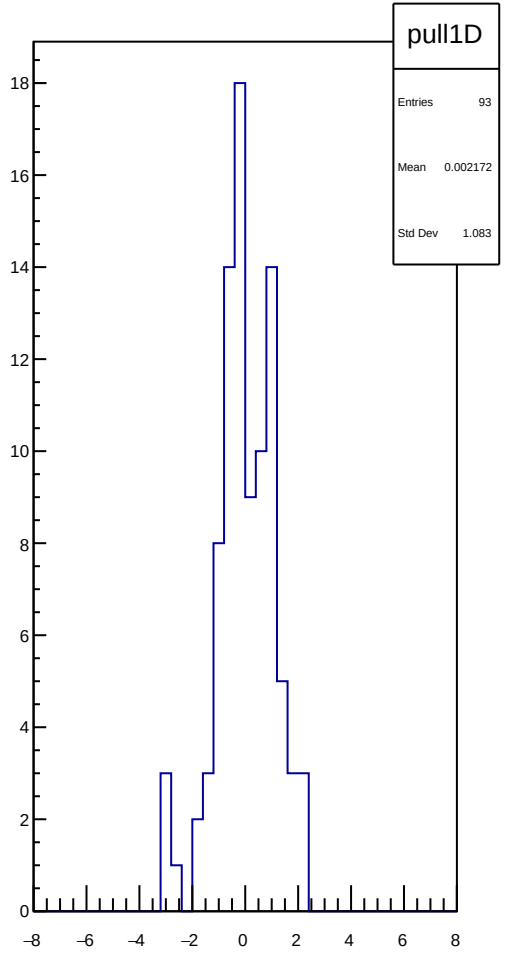

pull1D
Entries 93
Mean 0.00217
Std Dev 1.083

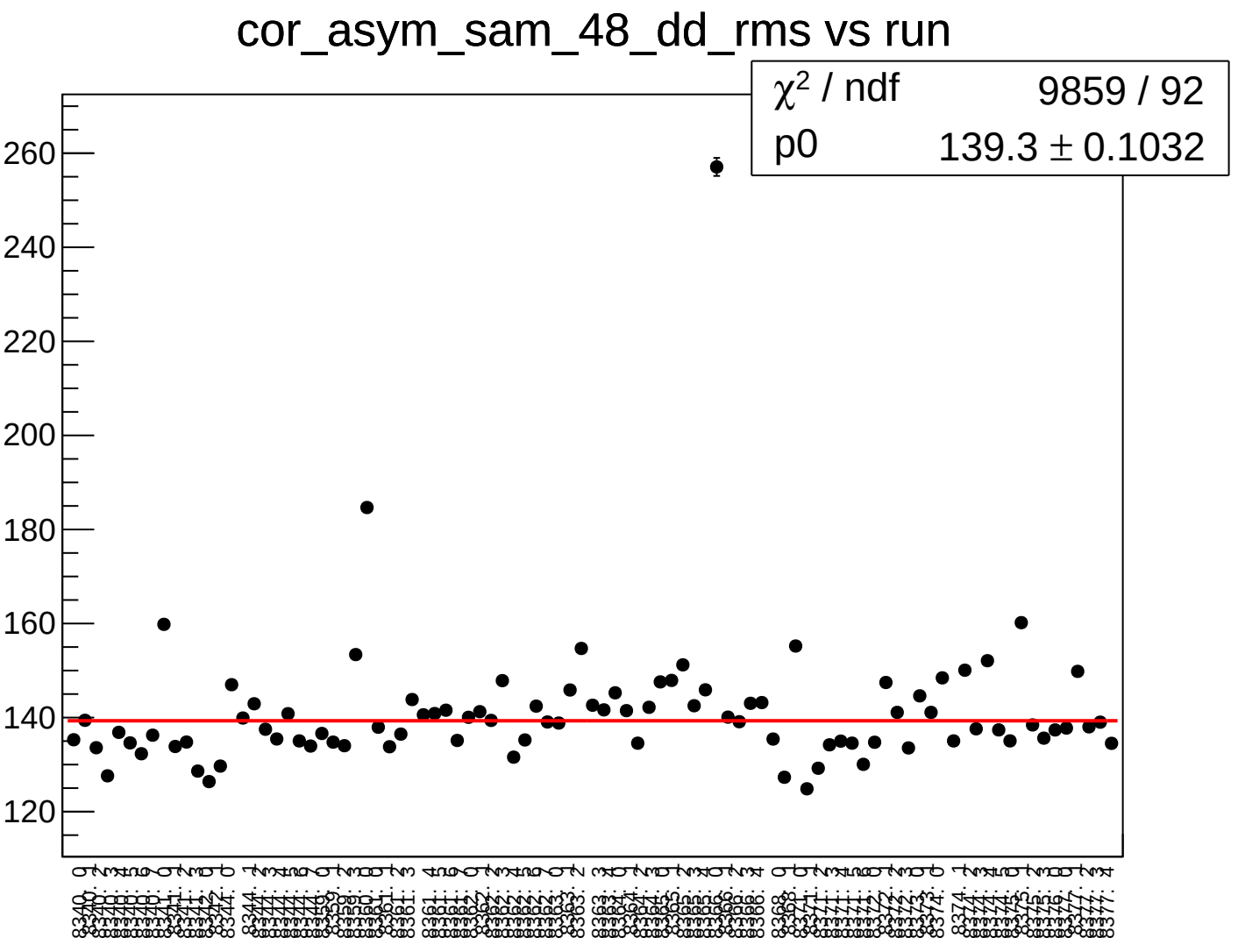

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 9859 / 92
p0 139.3 ± 0.1032
260
240
220
200
180
160
140
120

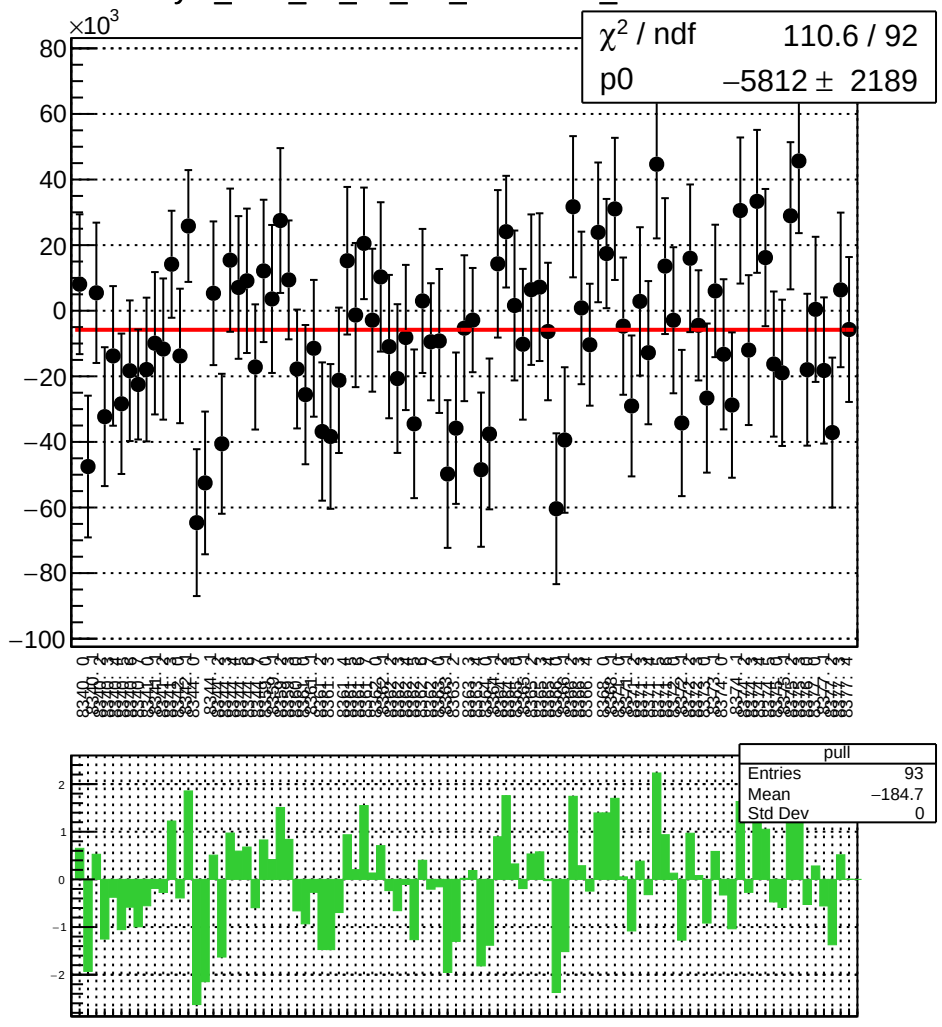

asym_sam_48_dd_reg_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −5812 ± 2189
pull
Entries 93
Mean −184.7
Std Dev 0
pull1D
Entries 93
Mean −0.02526
Std Dev 1.09

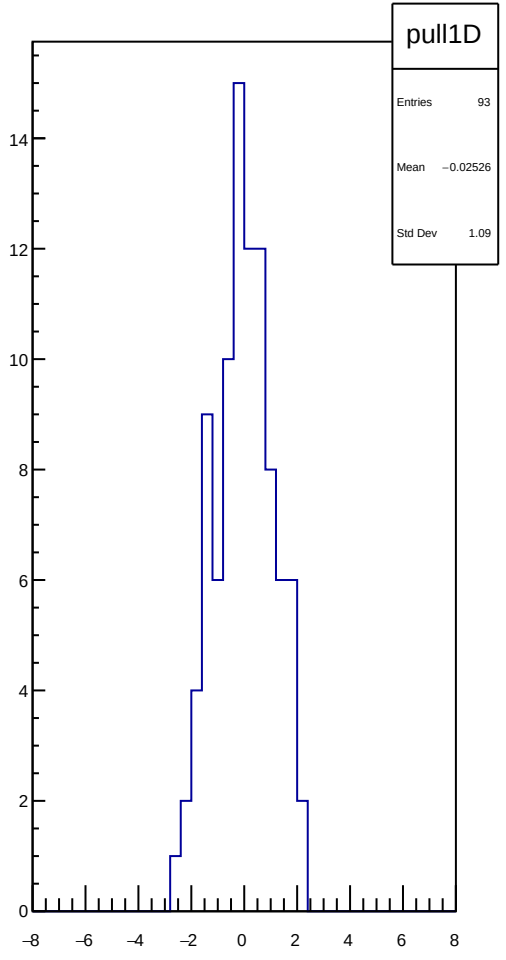

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1565 / 92
p0 2095 ± 1.548
2250
2200
2150
2100
2050
2000
1950
1900

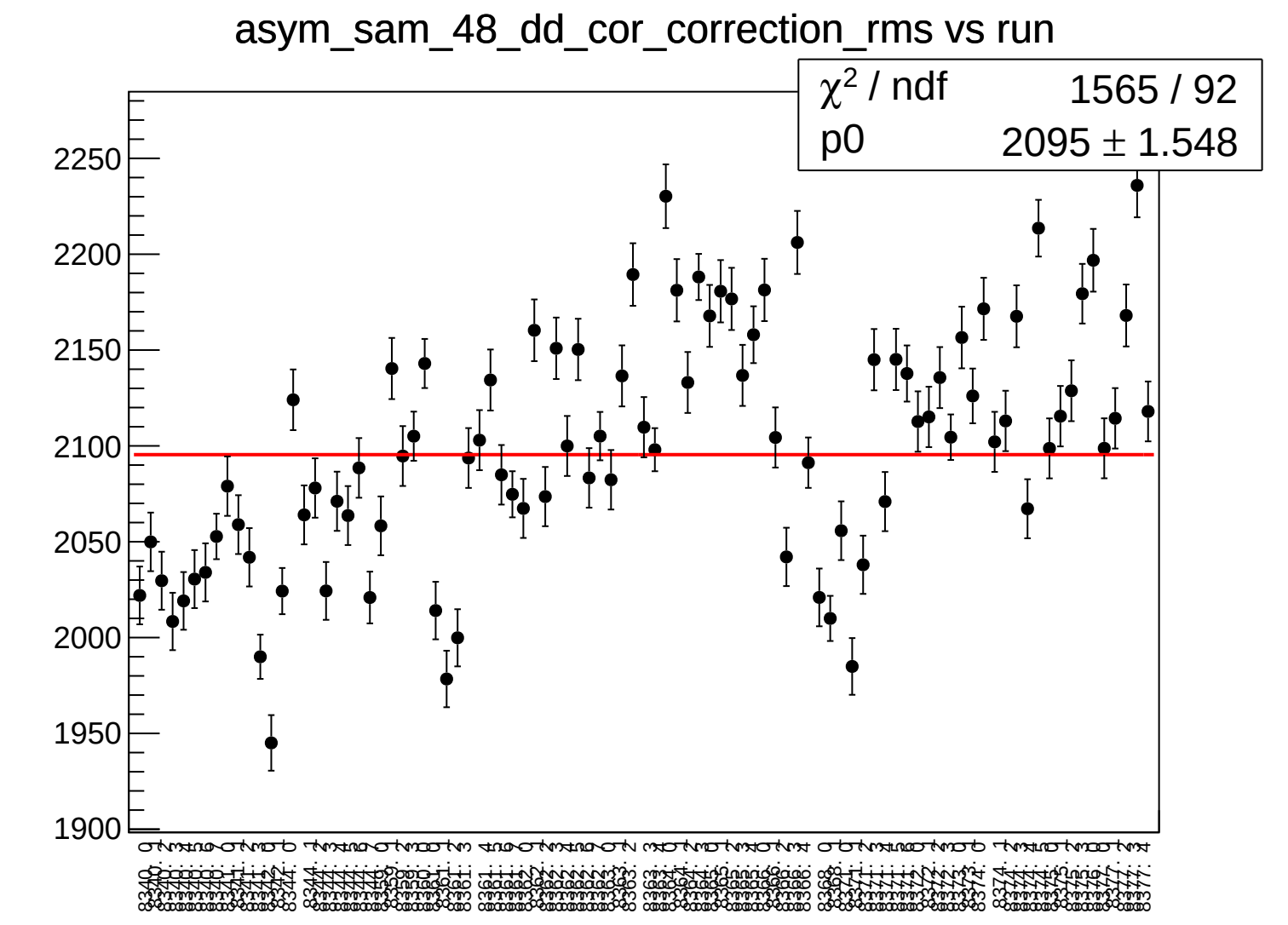

cor_asym_sam_48_dd_mean vs run
χ² / ndf 109 / 92
p0 −1.694 ± 145.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 288.8
Std Dev 0
2
1
0
−1
−2
−3

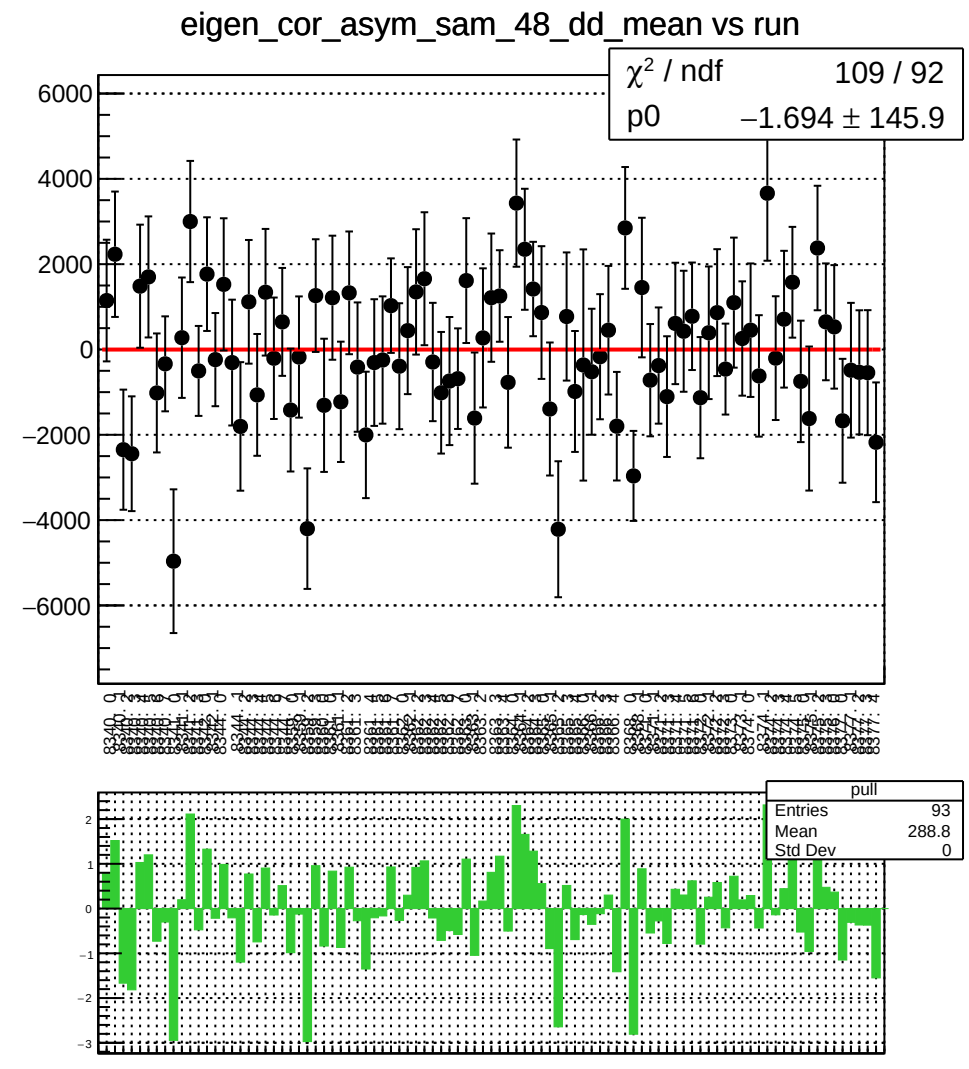

pull1D
Entries 93
Mean 0.002172
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

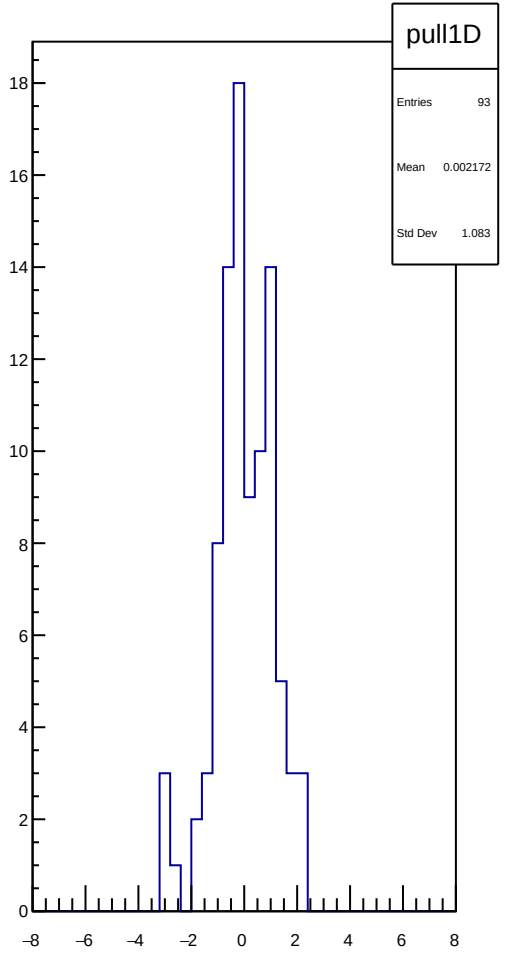

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 9859 / 92
p0 139.3 ± 0.1032
260
240
220
200
180
160
140
120

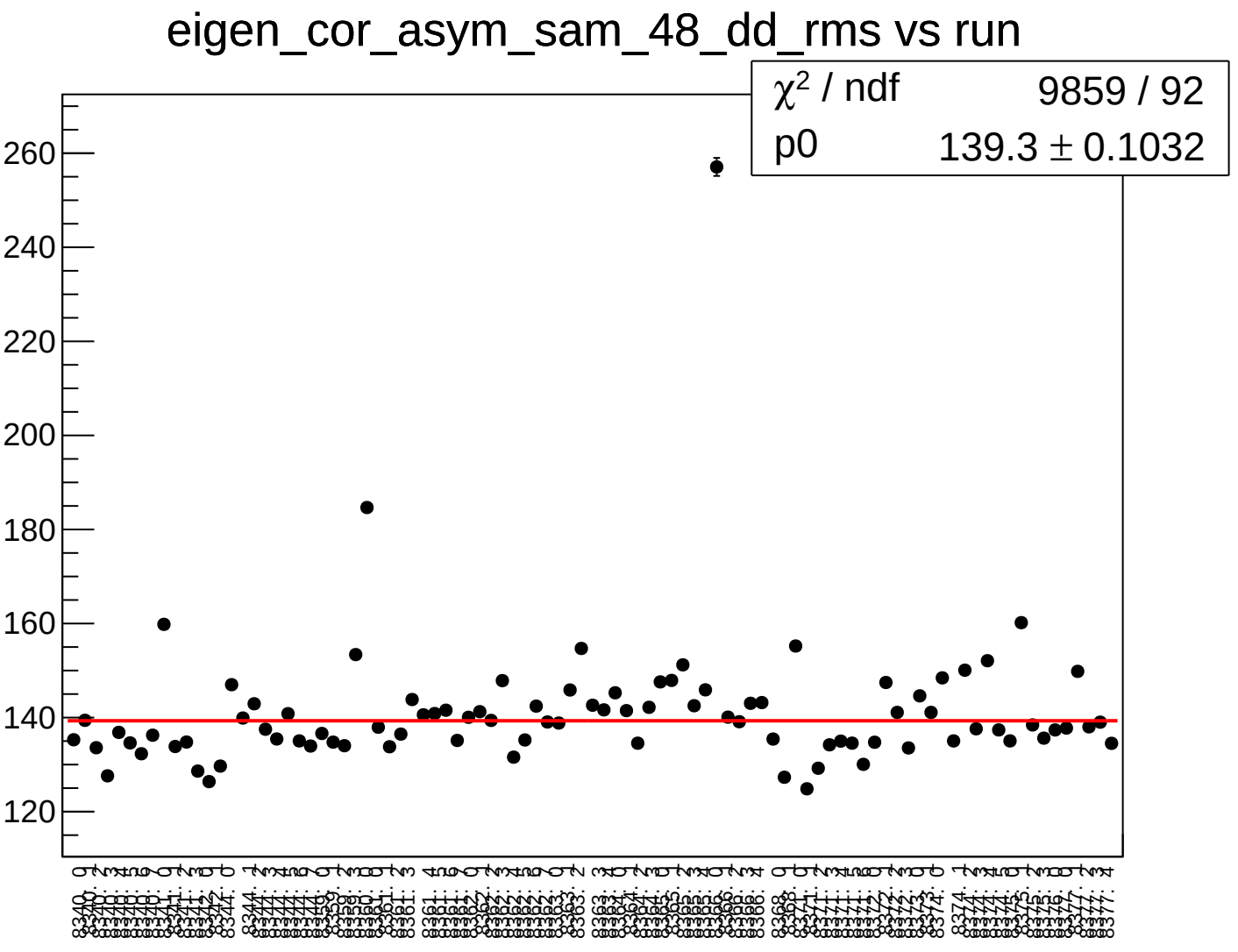

asym_sam_48_dd_cor_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −5812 ± 2189
pull
Entries 93
Mean −184.7
Std Dev 0

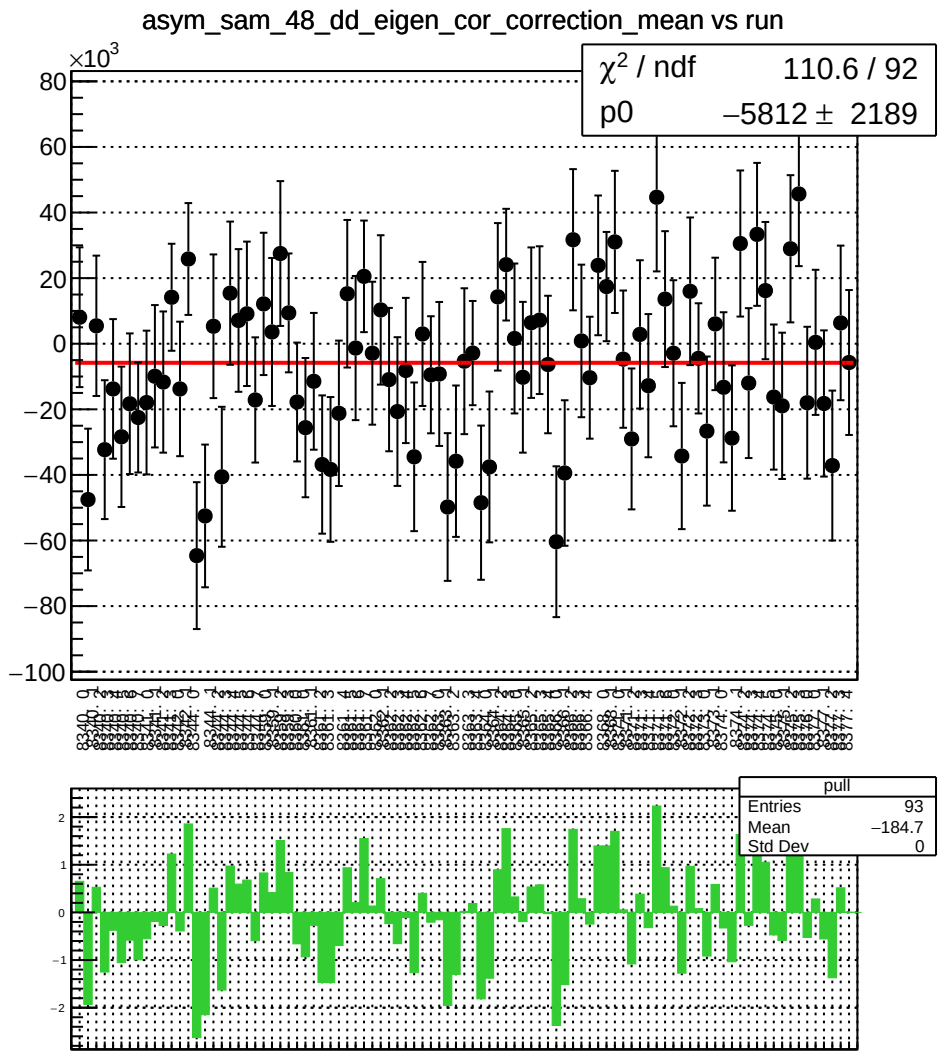

pull1D
Entries 93
Mean −0.02526
Std Dev 1.09

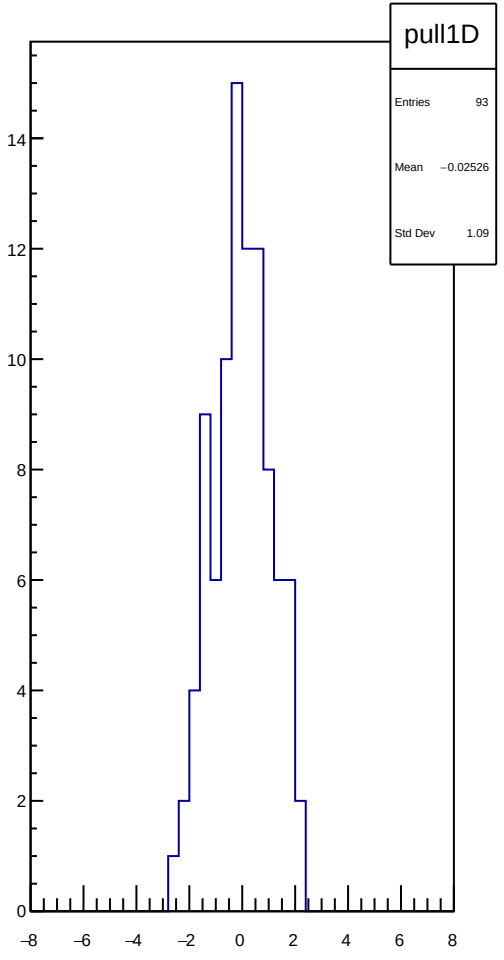

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1565 / 92
p0 2095 ± 1.548
2250
2200
2150
2100
2050
2000
1950
1900

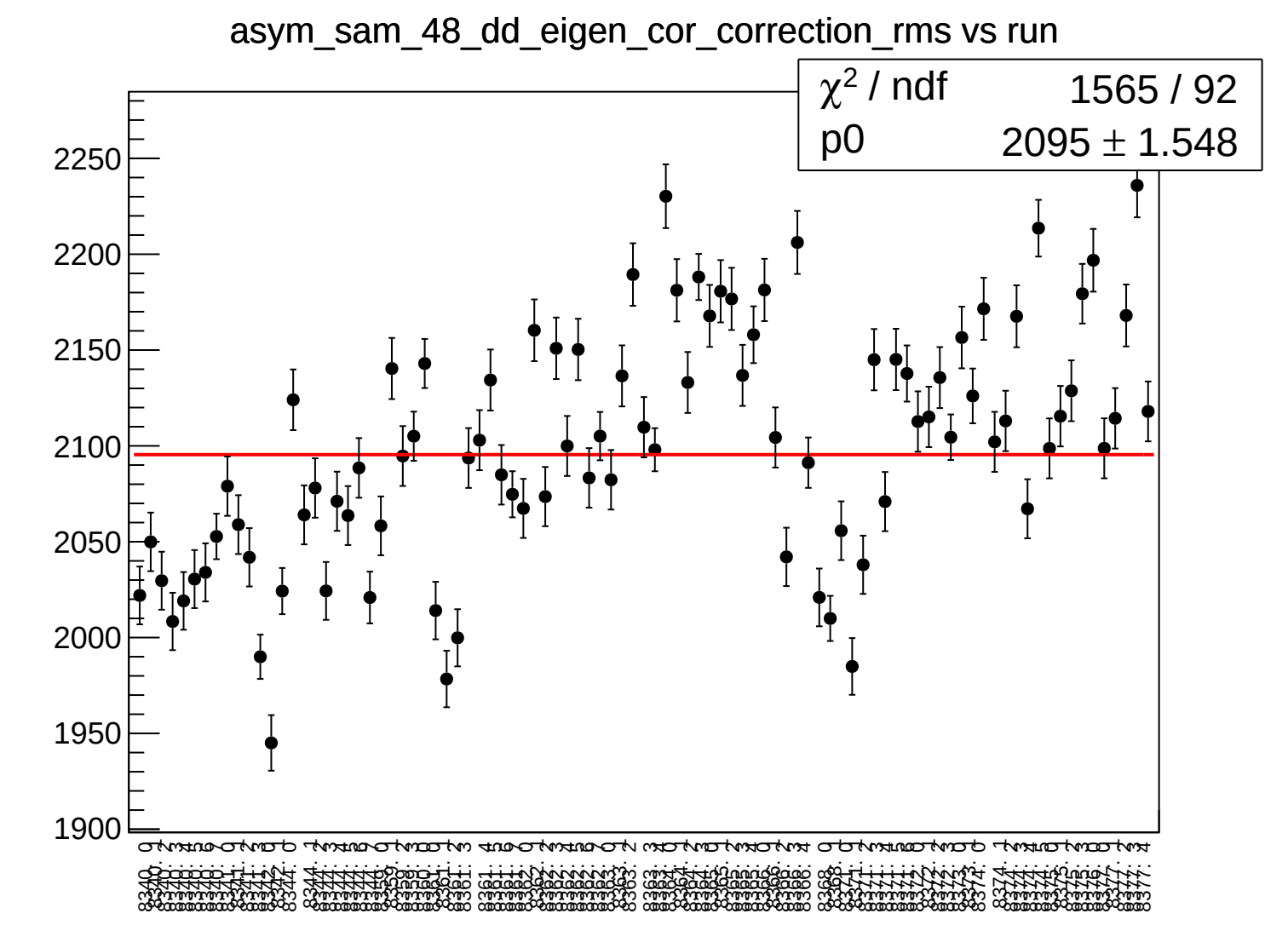

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 109 / 92
p0 −1.694 ± 145.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 288.8
Std Dev 0
2
1
0
−1
−2
−3

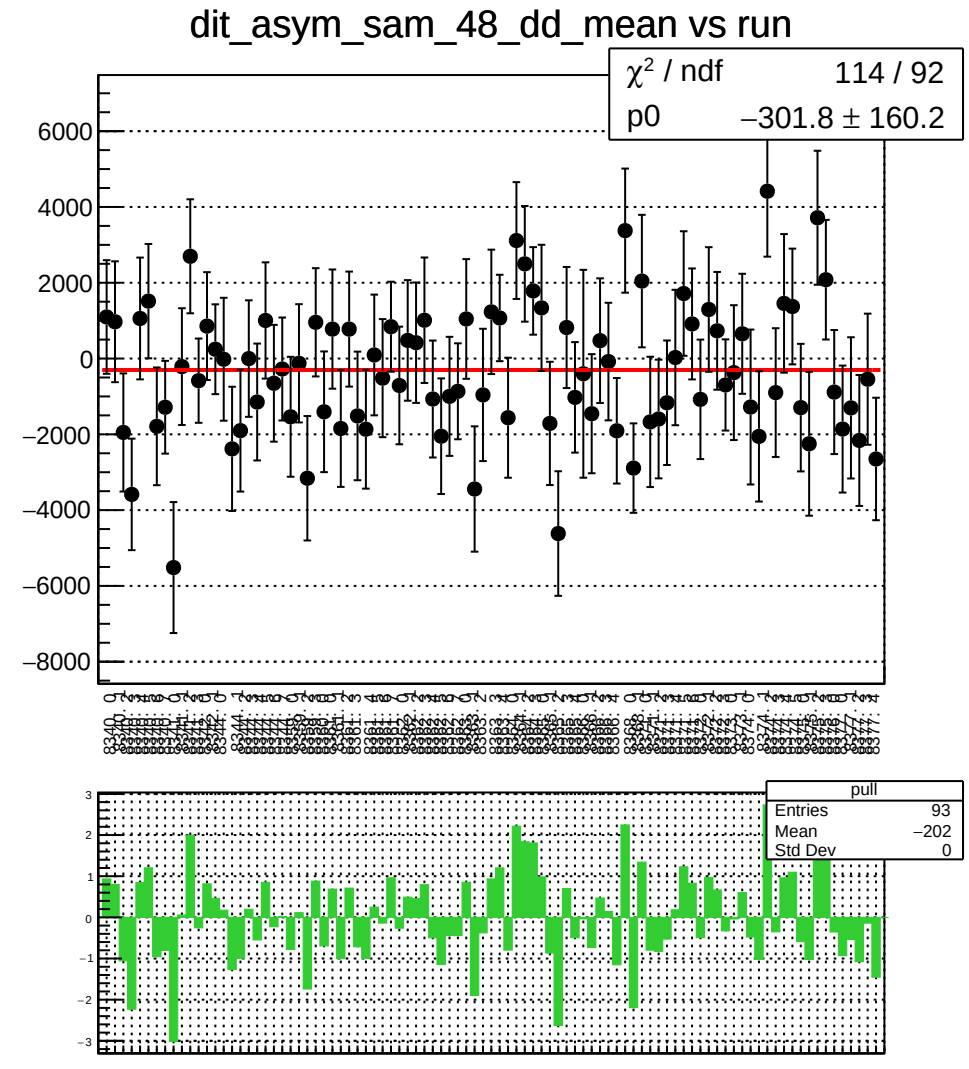

pull1D
Entries 93
Mean 0.002172
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

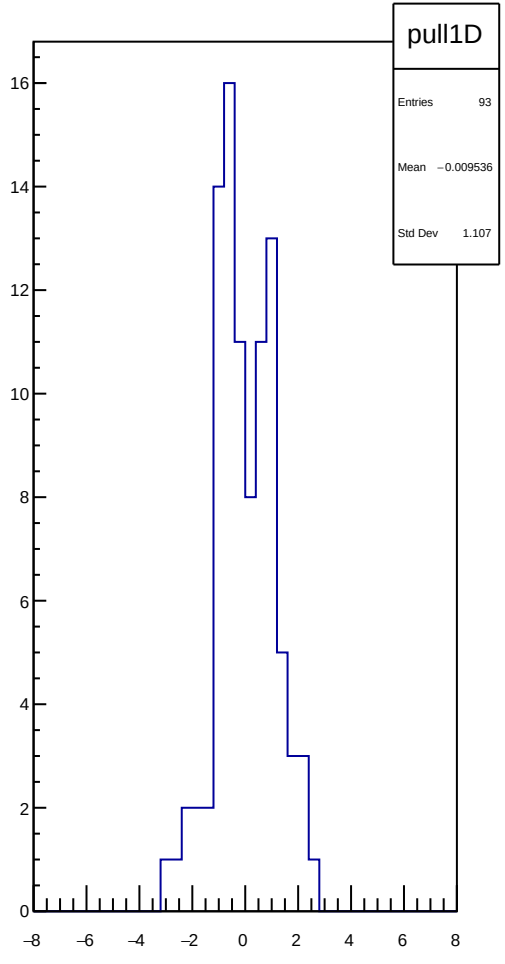

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 9859 / 92
p0 139.3 ± 0.1032
260
240
220
200
180
160
140
120

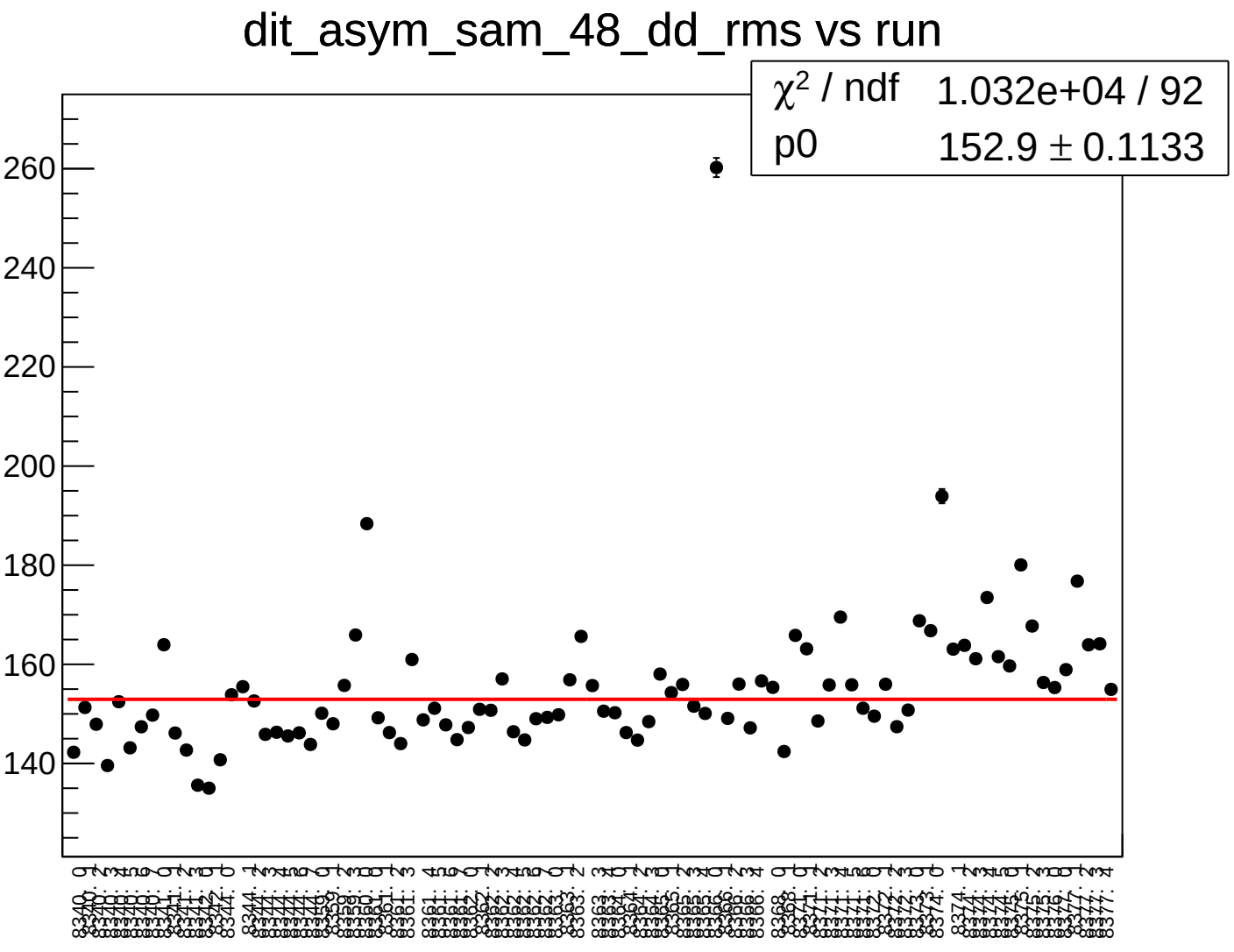

asym_sam_48_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.6 / 92
p0 −5812 ± 2189
pull
Entries 93
Mean −184.7
Std Dev 0

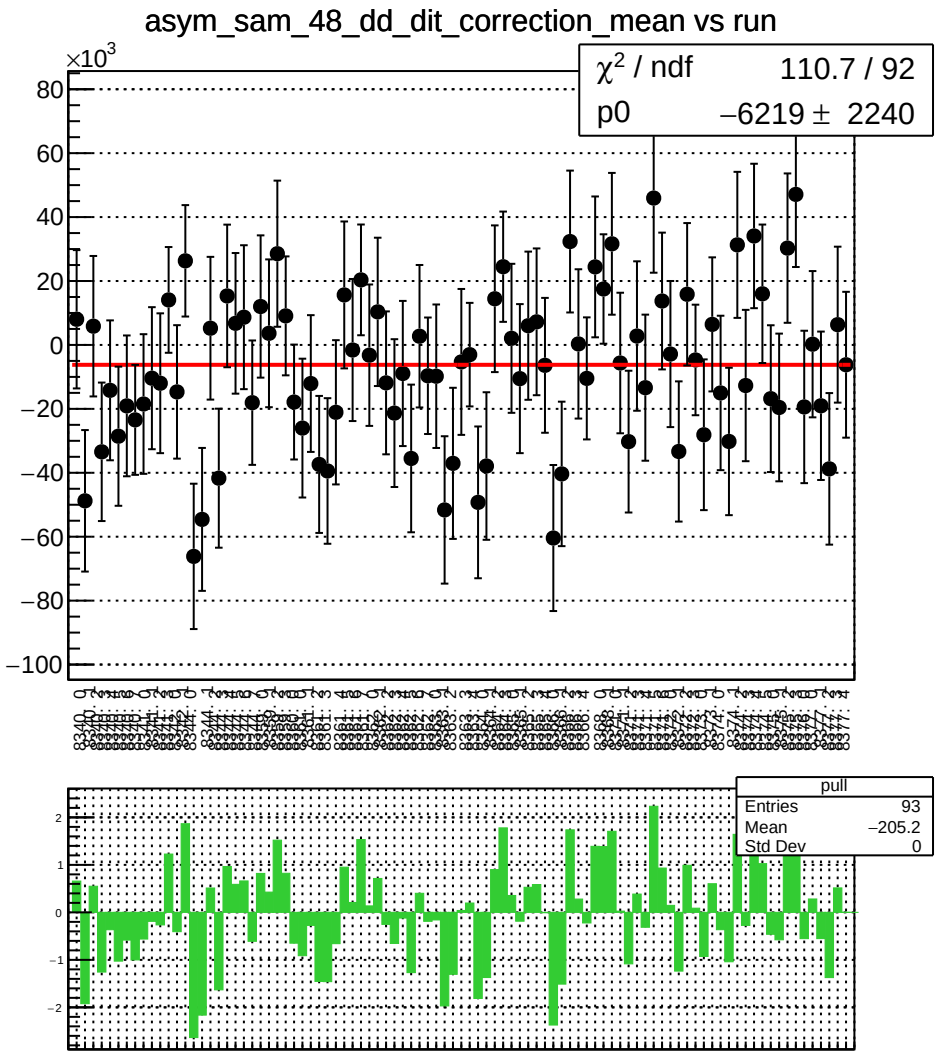

pull1D
Entries 93
Mean −0.02526
Std Dev 1.09

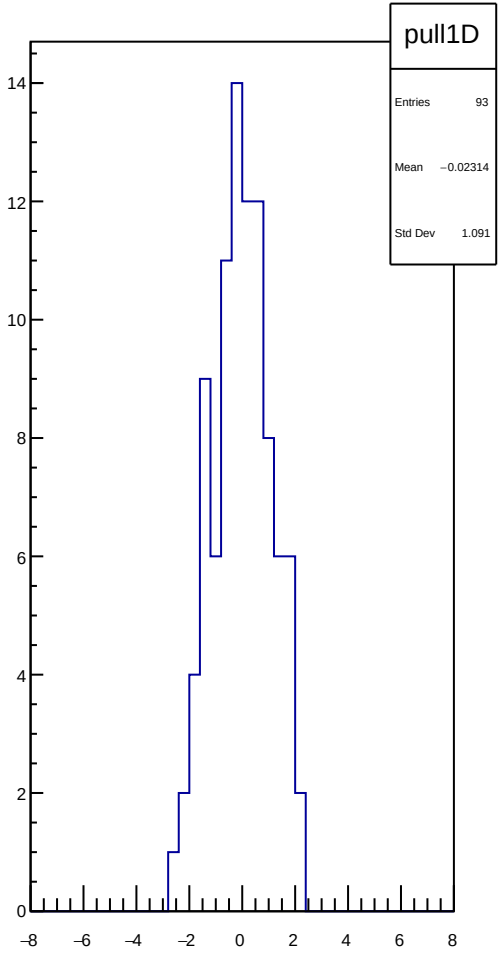

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1565 / 92
p0 2095 ± 1.548
2250
2200
2150
2100
2050
2000
1950
1900

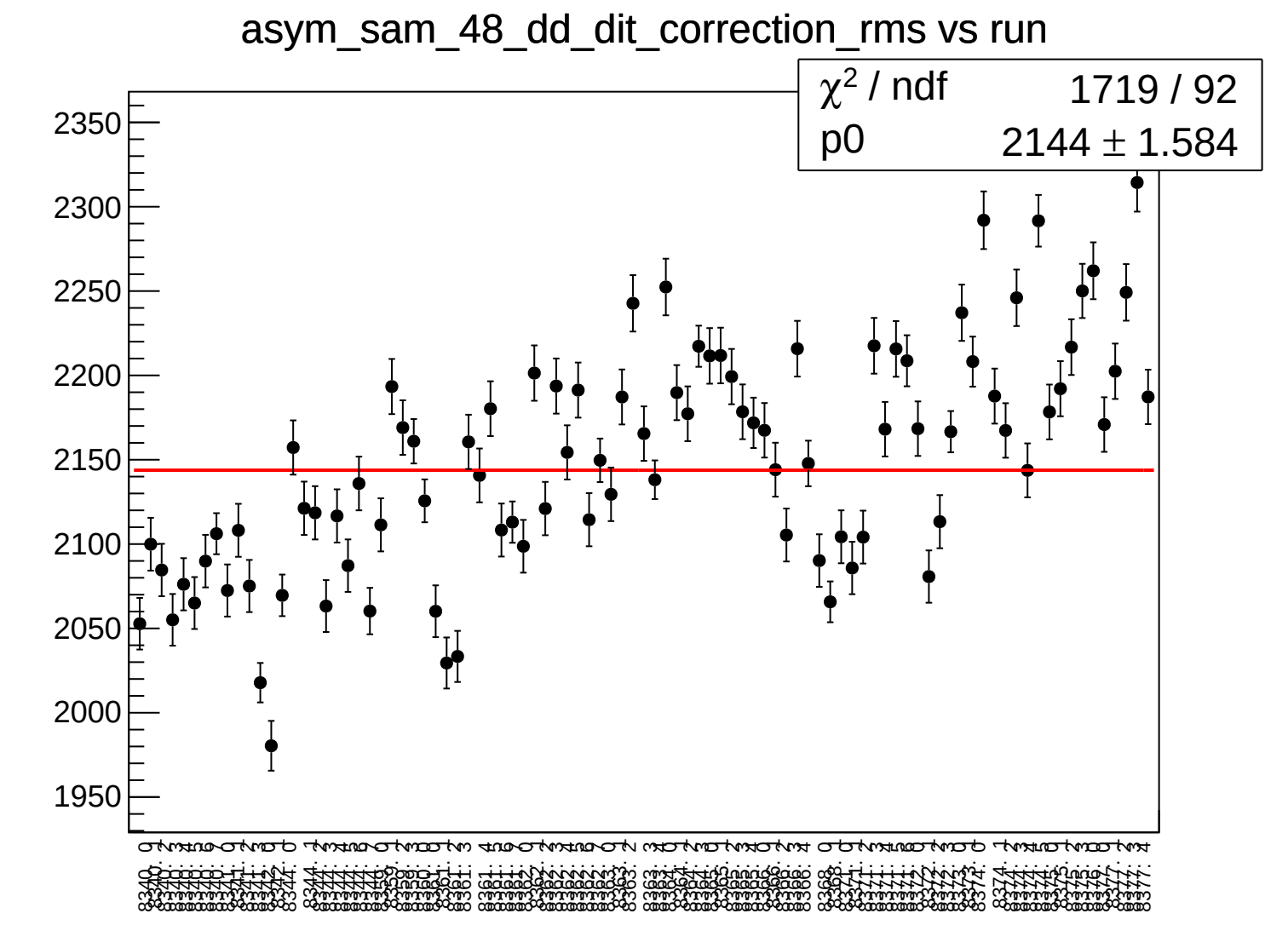

dit_asym_sam_48_dd_mean vs run
χ² / ndf 114 / 92
p0 −301.8 ± 160.2
pull
Entries 93
Mean −202
Std Dev 0

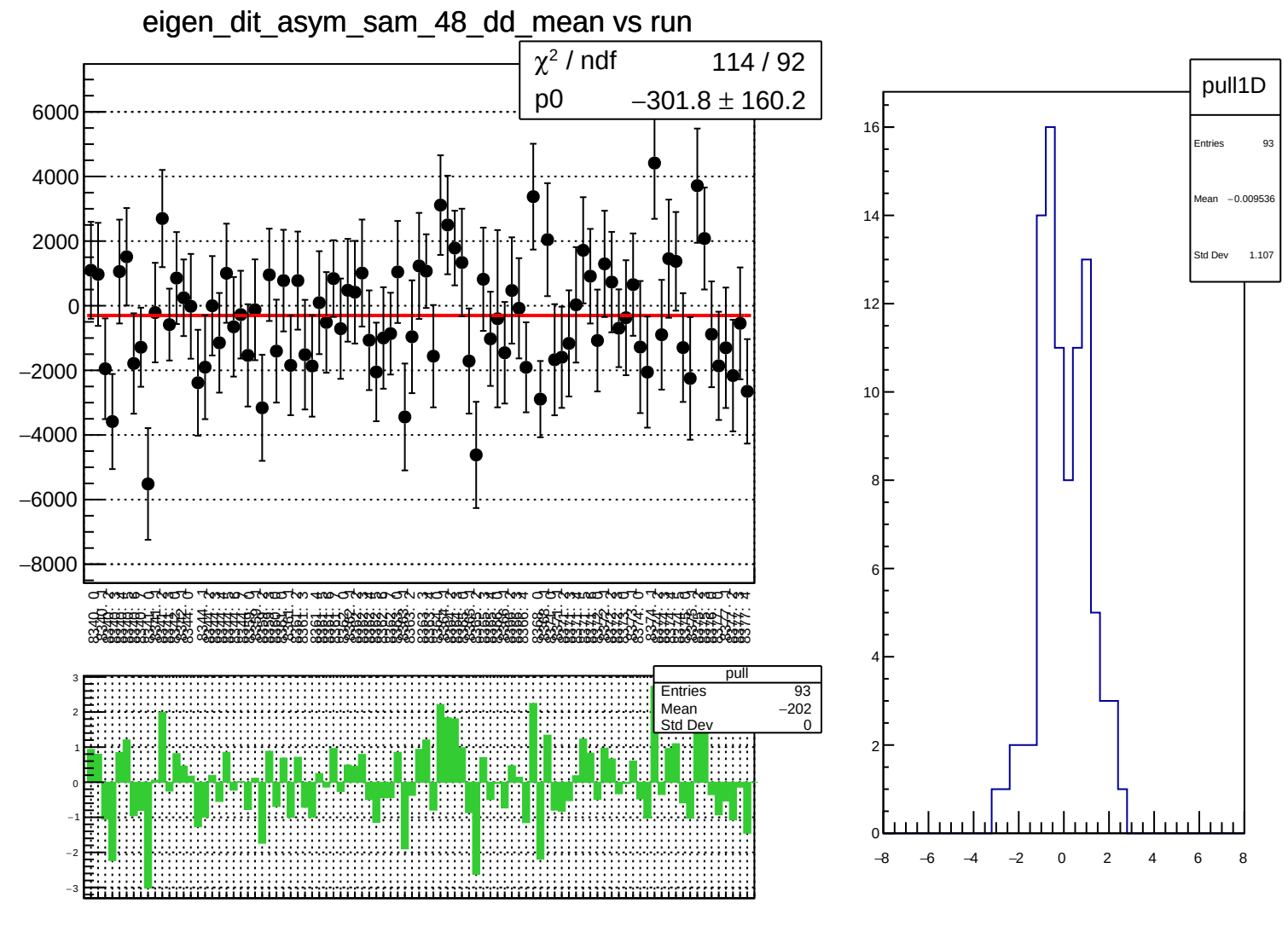

pull1D
Entries 93
Mean −0.009536
Std Dev 1.107

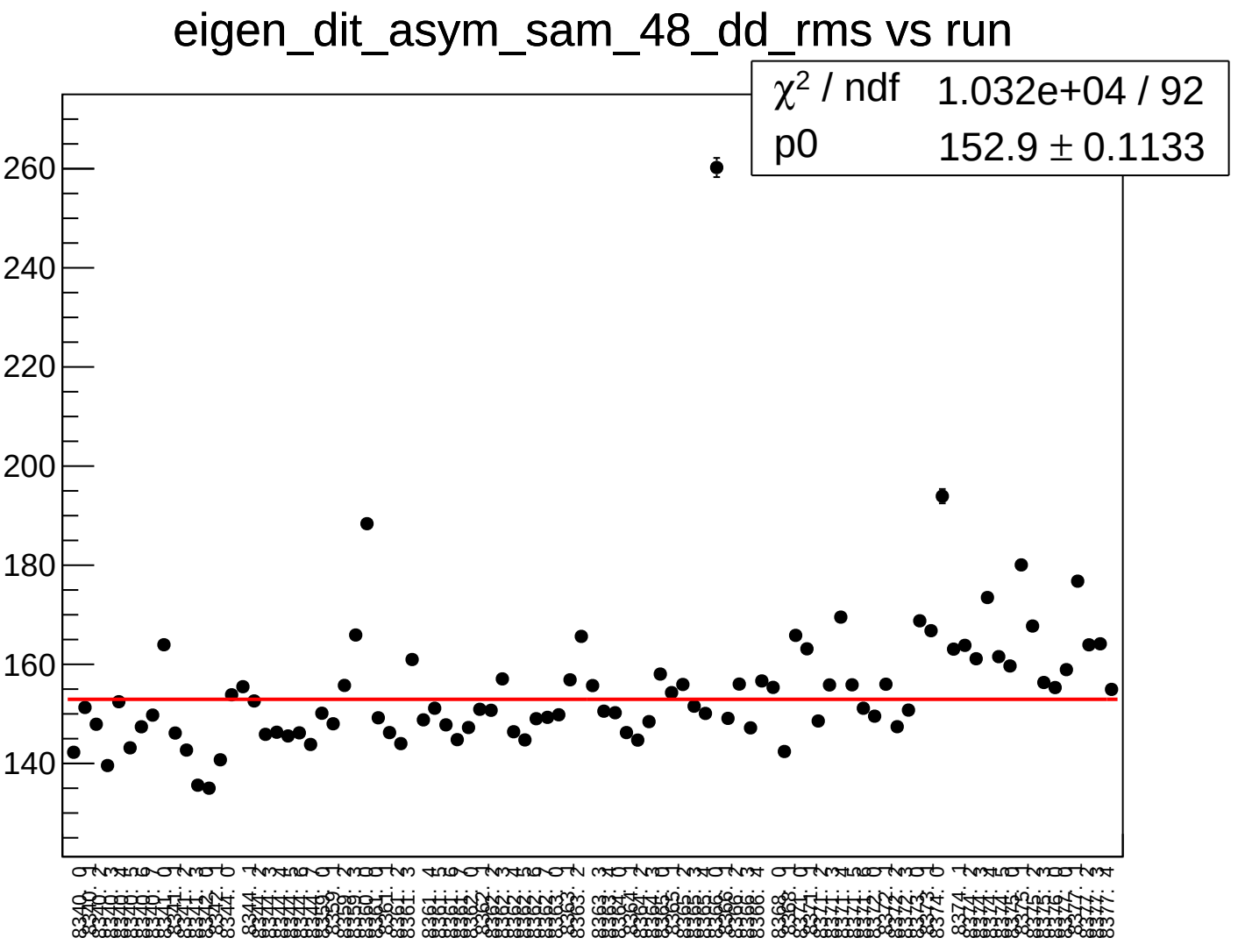

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.032e+04 / 92
p0 152.9 ± 0.1133
260
240
220
200
180
160
140

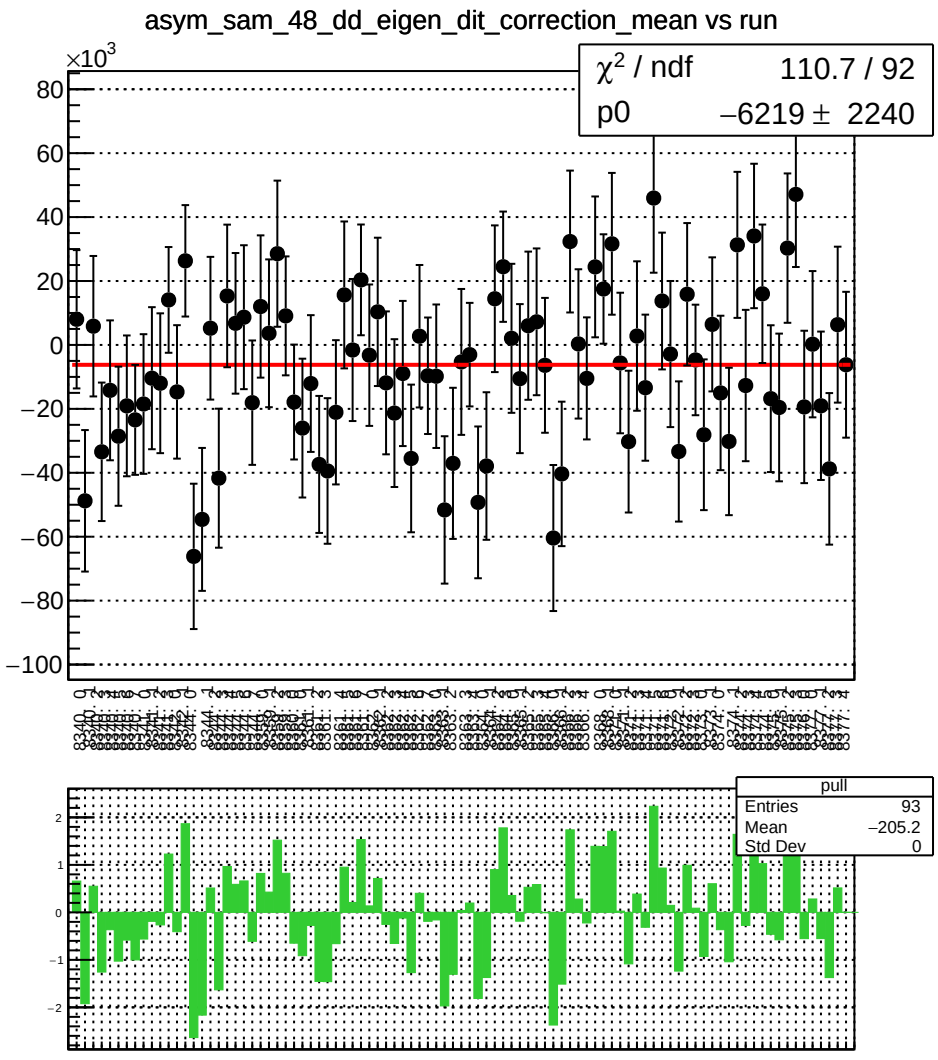

asym_sam_48_dd_dit_correction_mean vs run
×10^3
χ² / ndf 110.7 / 92
p0 −6219 ± 2240
pull
Entries 93
Mean −205.2
Std Dev 0

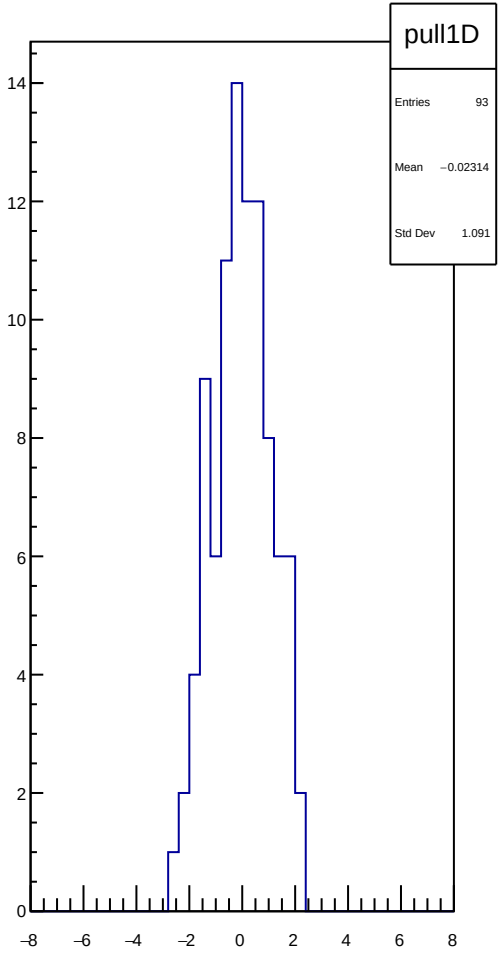

pull1D
Entries 93
Mean −0.02314
Std Dev 1.091

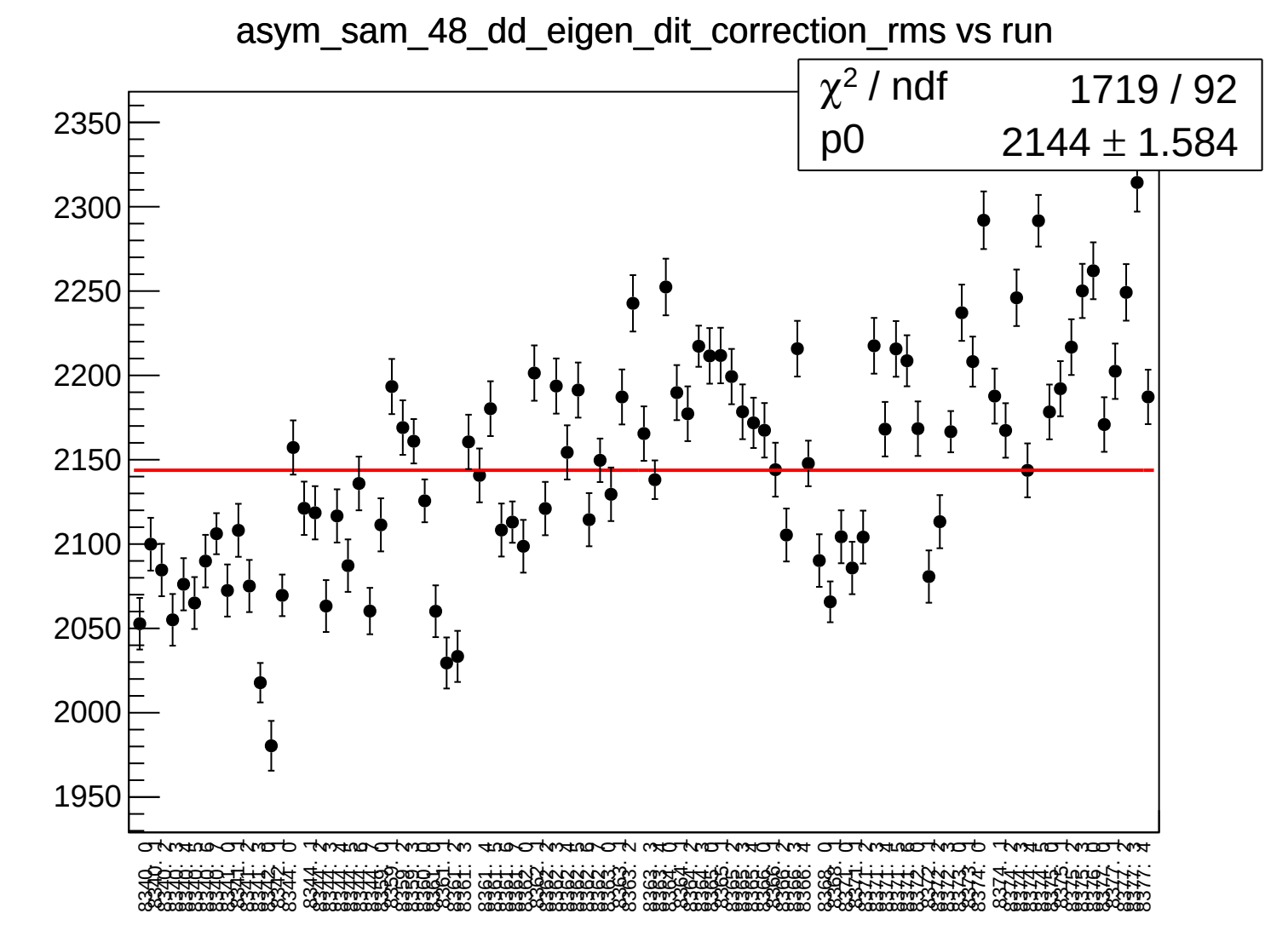

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1719 / 92
p0 2144 ± 1.584
2350
2300
2250
2200
2150
2100
2050
2000
1950

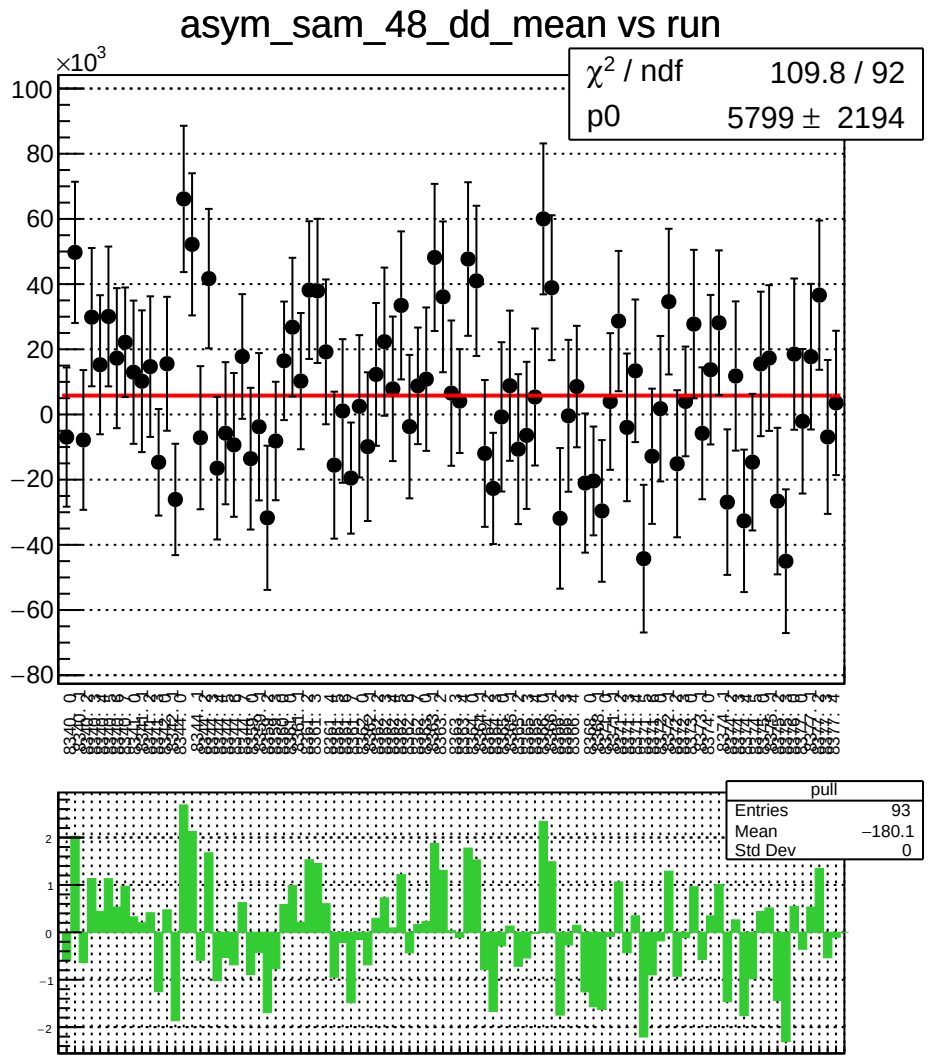

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 114 / 92
p0 −301.8 ± 160.2
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −202
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.009536
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

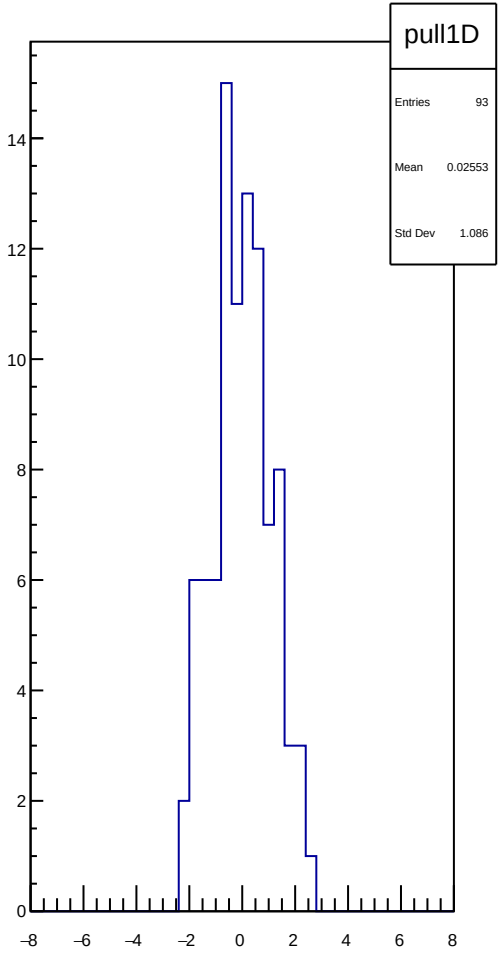

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.032e+04 / 92
p0 152.9 ± 0.1133
260
240
220
200
180
160
140

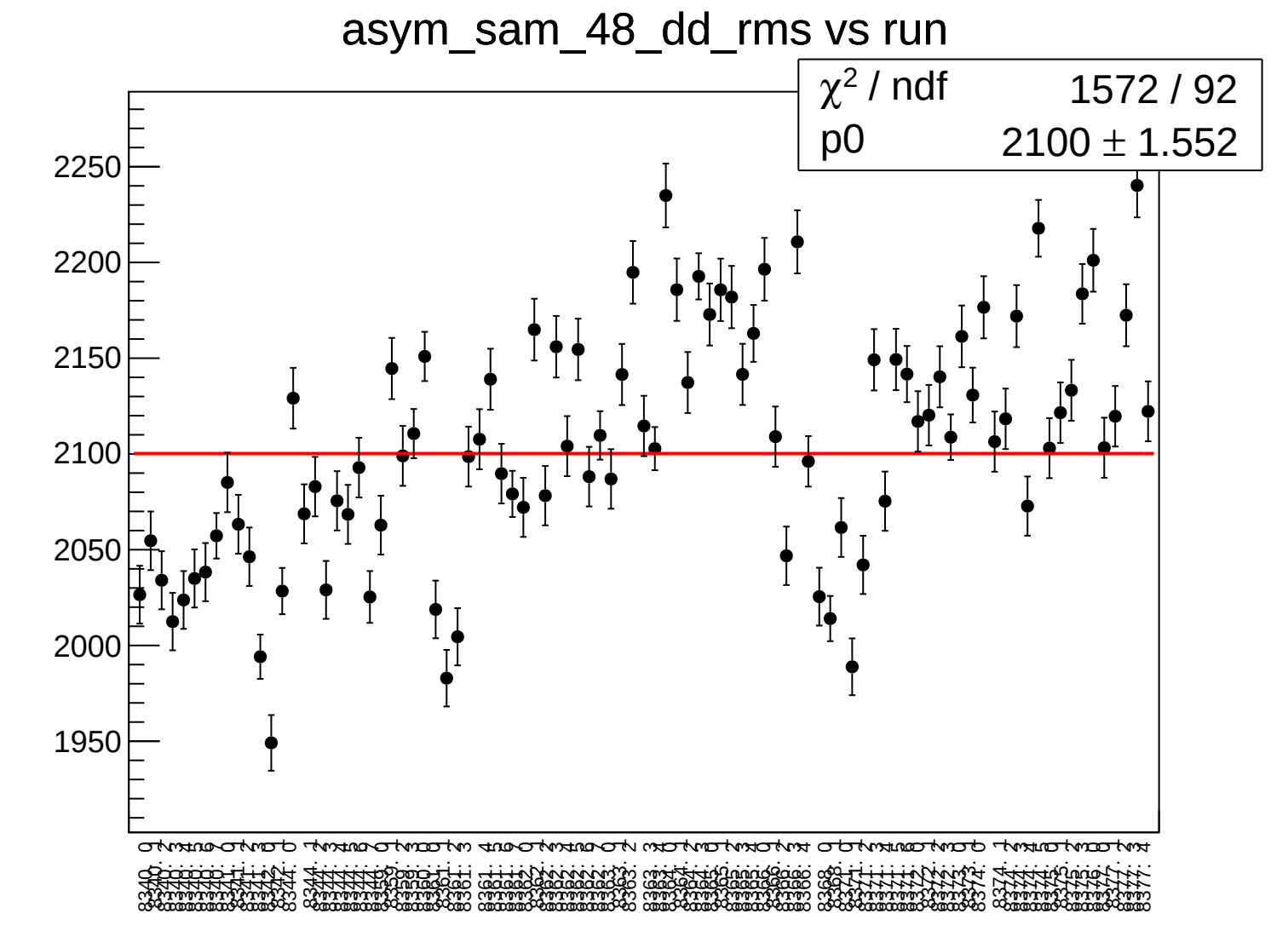

asym_sam_48_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 110.7 / 92
p0 −6219 ± 2240
pull
Entries 93
Mean −205.2
Std Dev 0

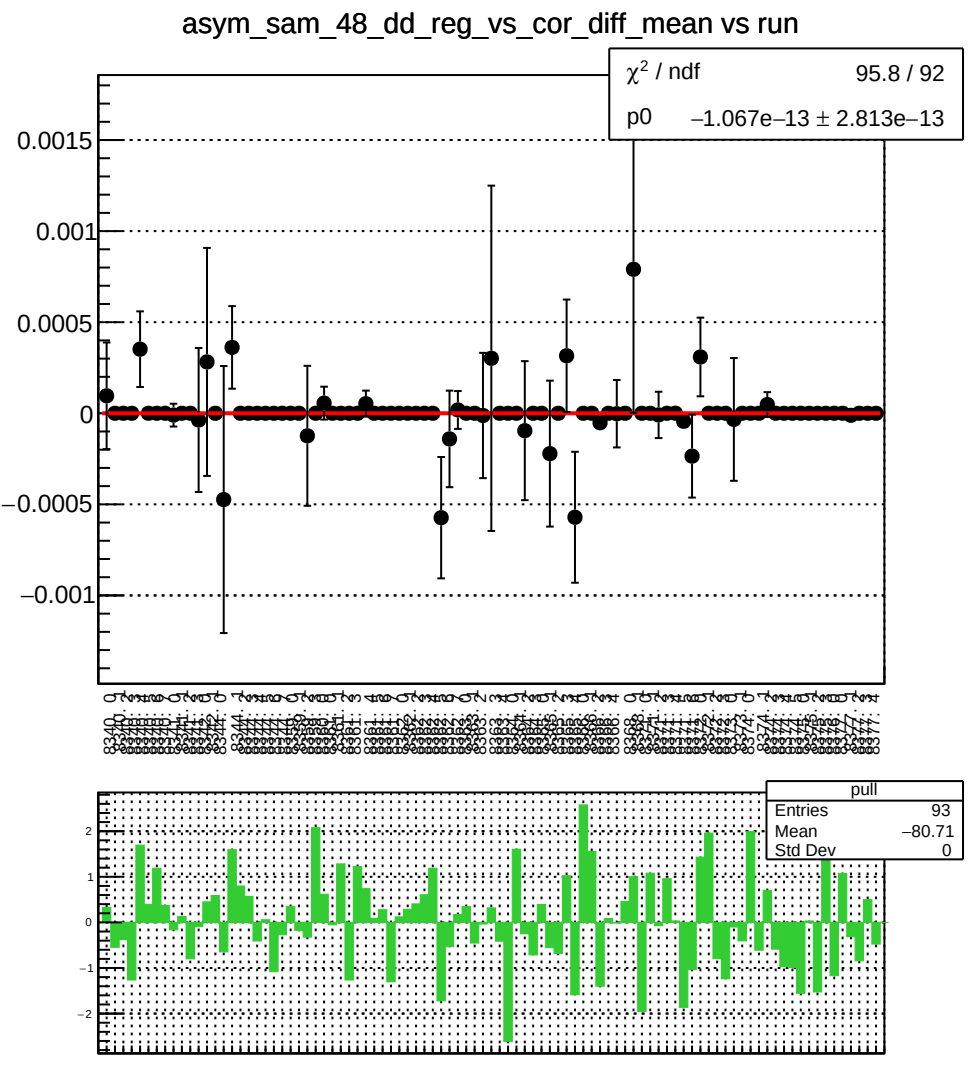

pull1D
Entries 93
Mean −0.02314
Std Dev 1.091

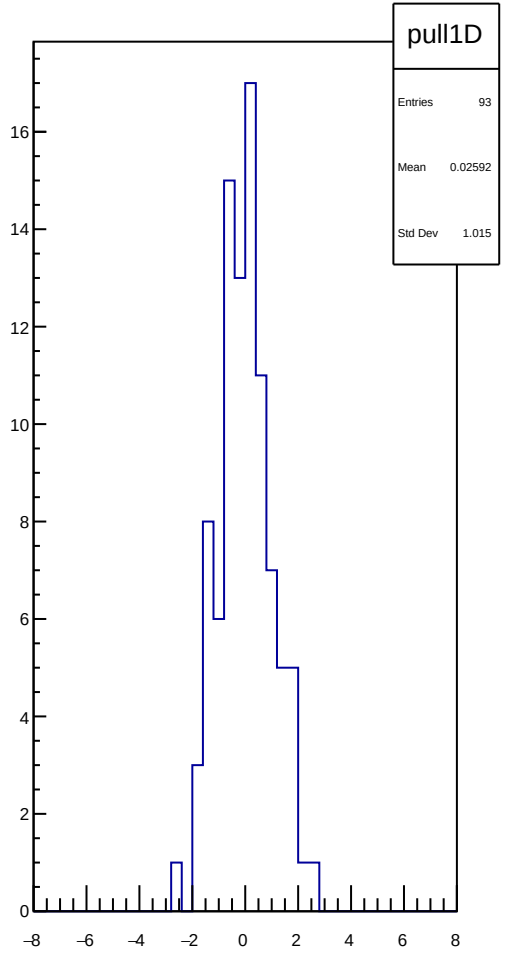

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1719 / 92
p0 2144 ± 1.584
2350
2300
2250
2200
2150
2100
2050
2000
1950

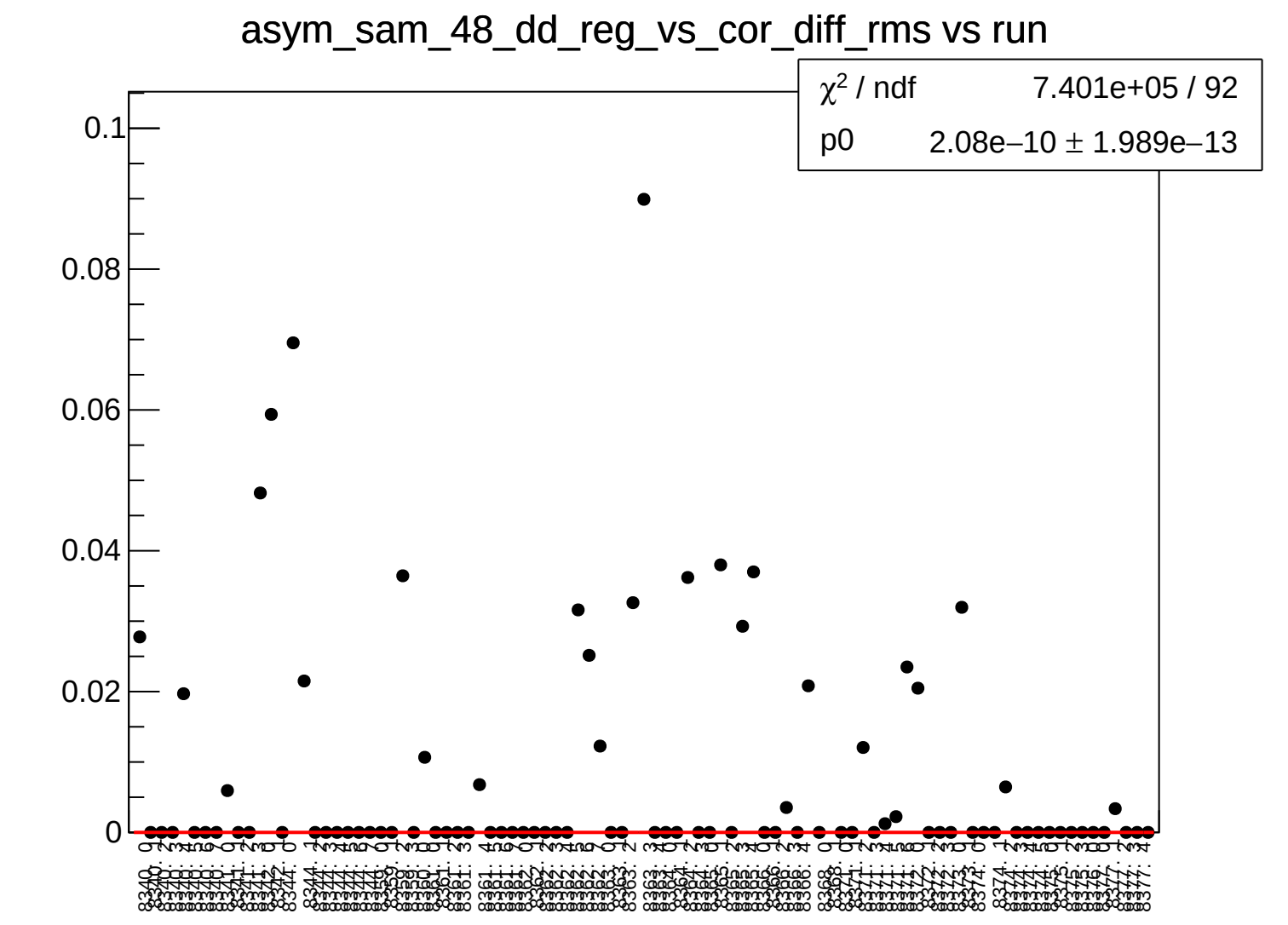

asym_sam_48_dd_mean vs run
×10^3
χ² / ndf 109.8 / 92
p0 5799 ± 2194
pull
Entries 93
Mean −180.1
Std Dev 0

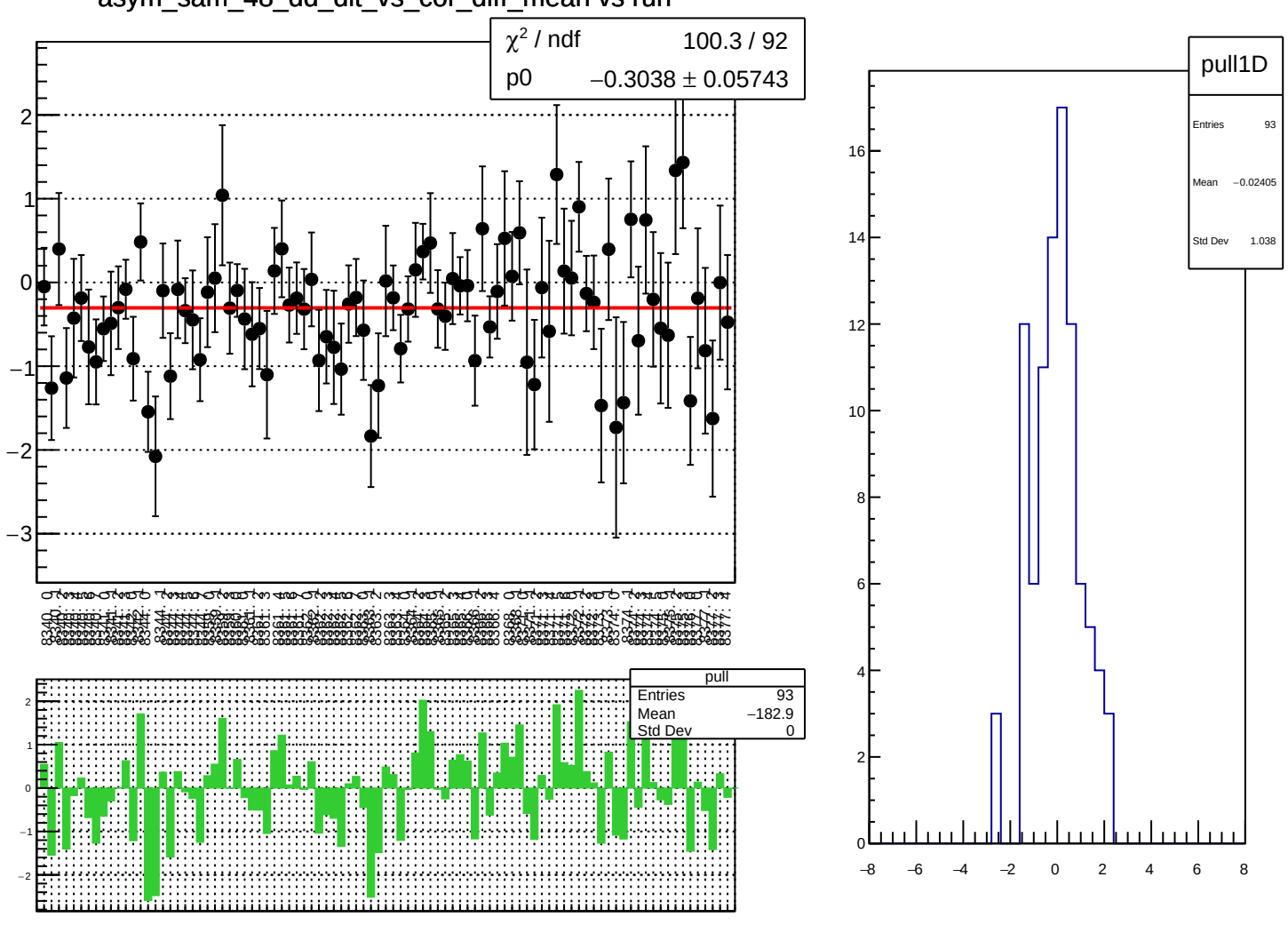

pull1D
Entries 93
Mean 0.02553
Std Dev 1.086

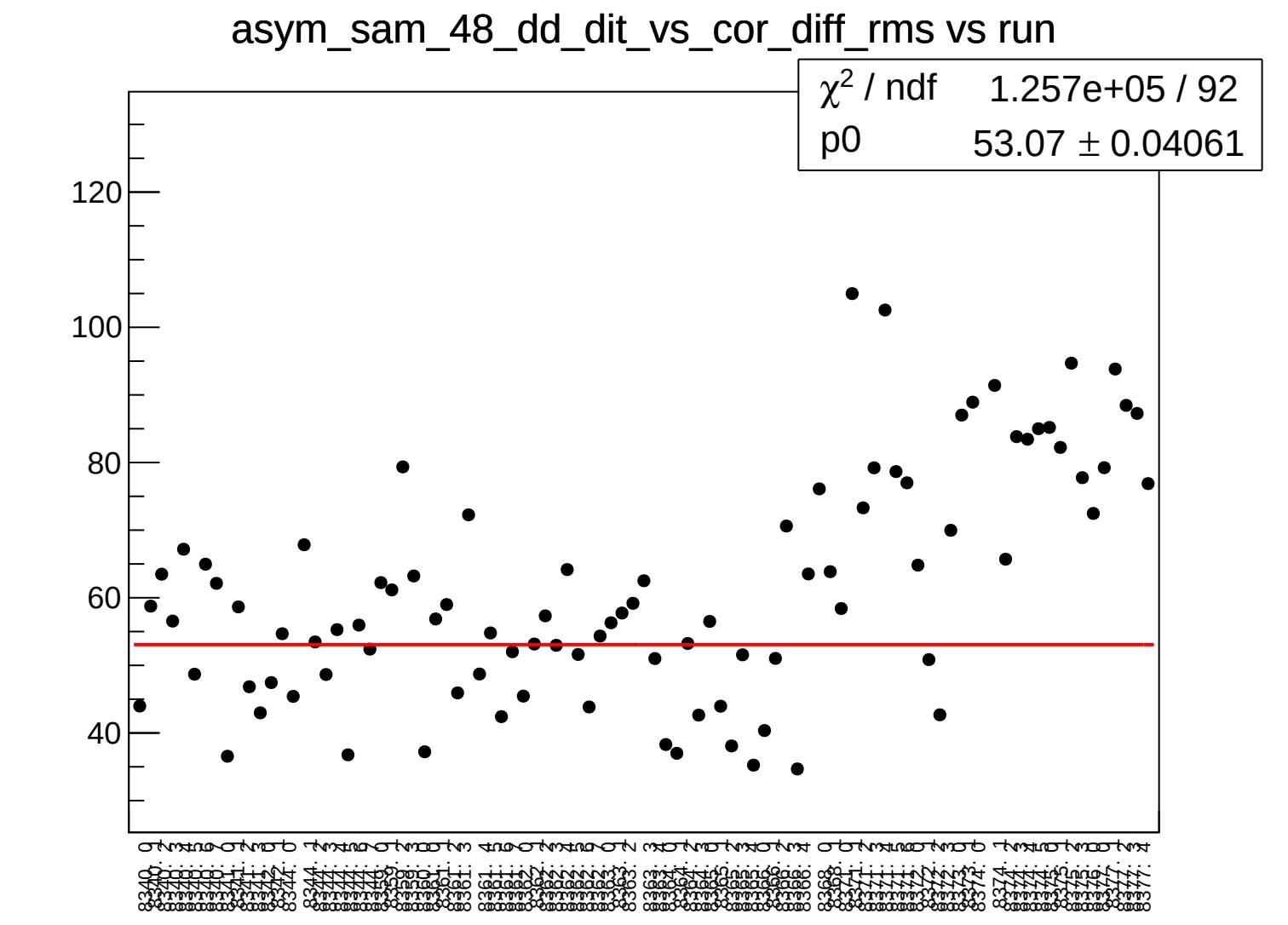

asym_sam_48_dd_rms vs run
χ² / ndf 1572 / 92
p0 2100 ± 1.552
2250
2200
2150
2100
2050
2000
1950

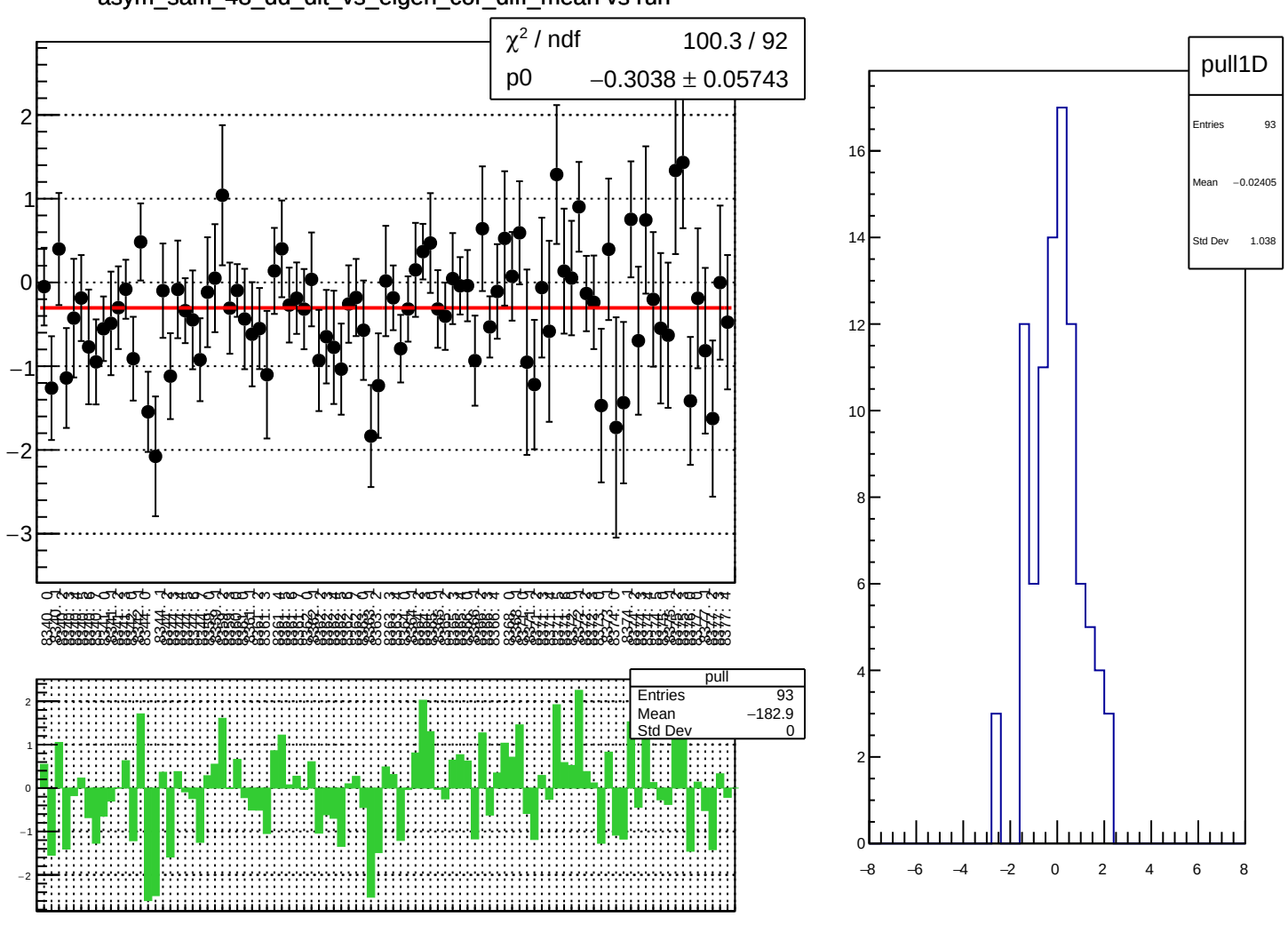

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.8 / 92
p0 −1.067e−13 ± 2.813e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean −80.71
Std Dev 0
2
1
0
−1
−2

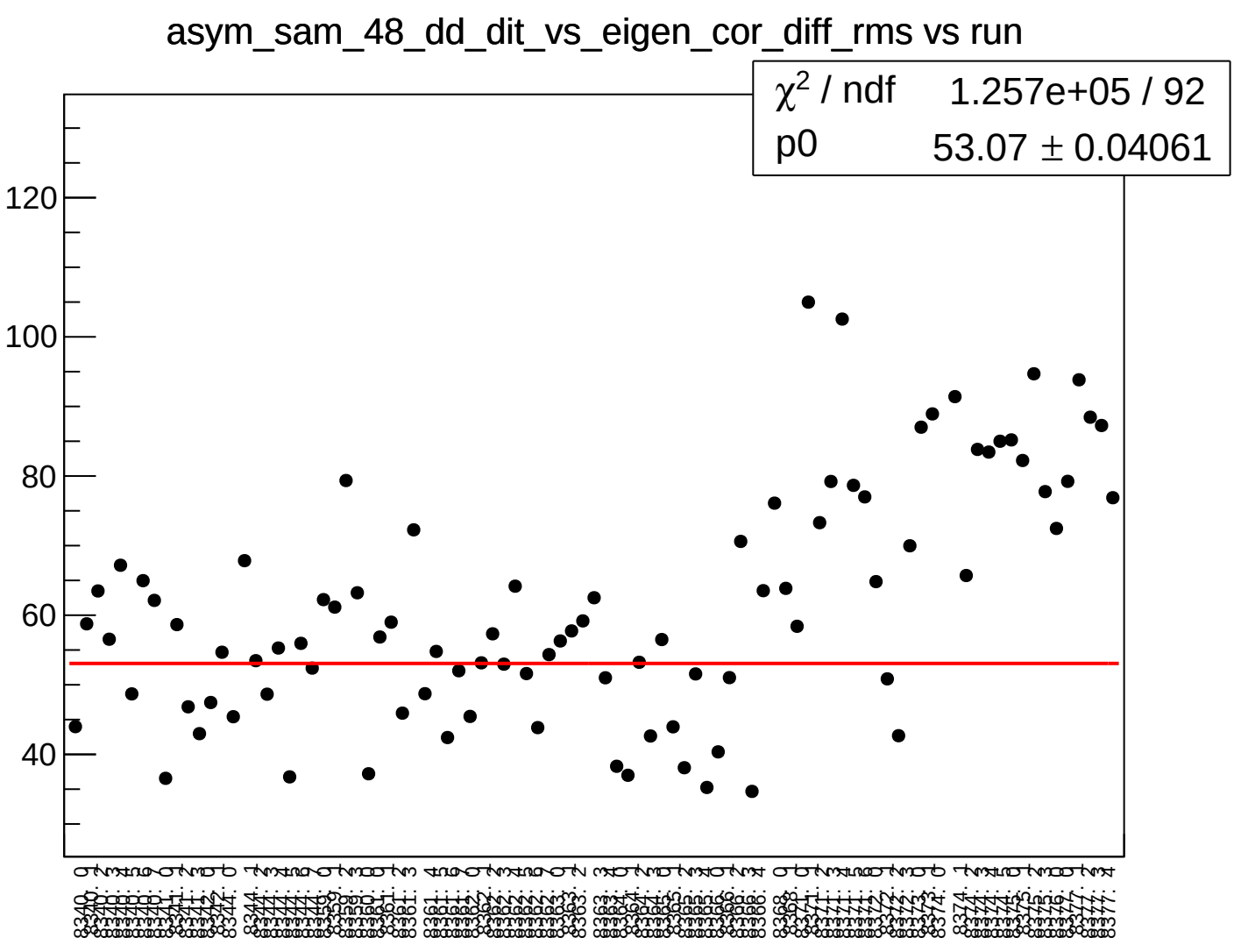

pull1D
Entries 93
Mean 0.02592
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

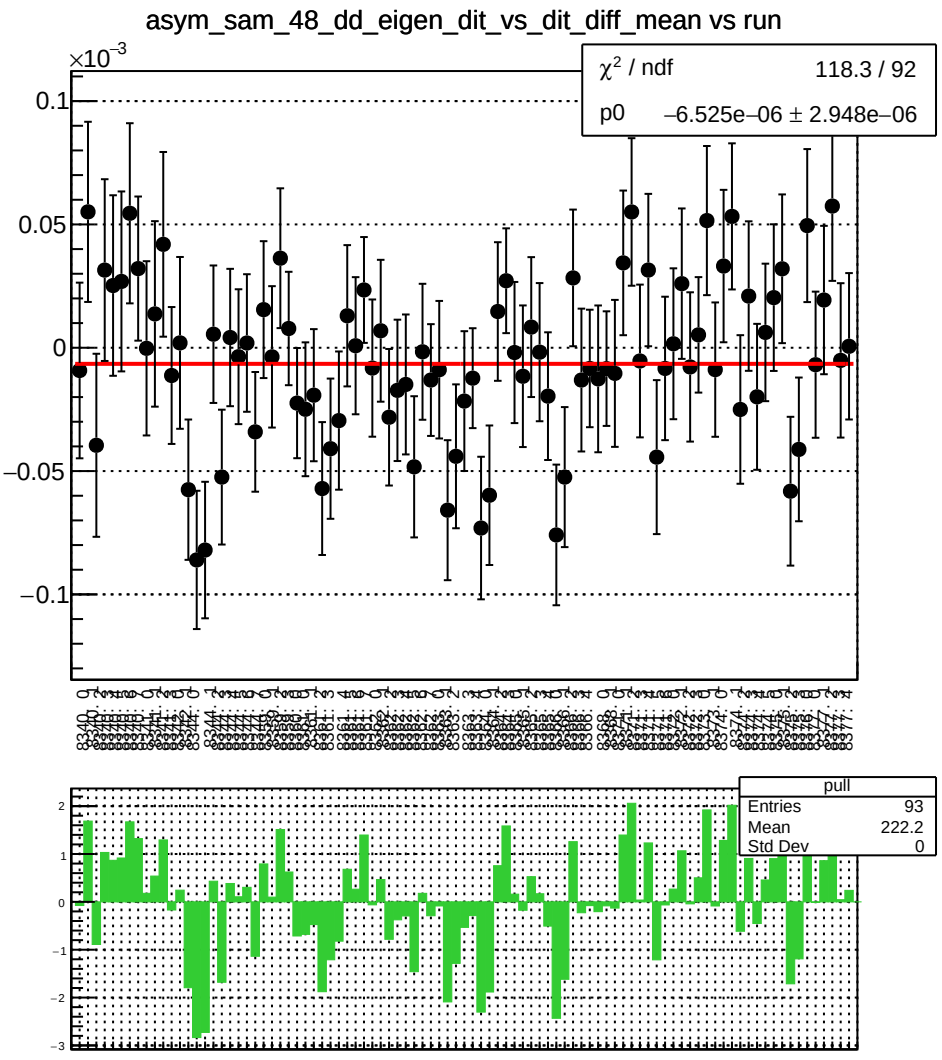

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.401e+05 / 92
p0 2.08e−10 ± 1.989e−13
0.1
0.08
0.06
0.04
0.02
0

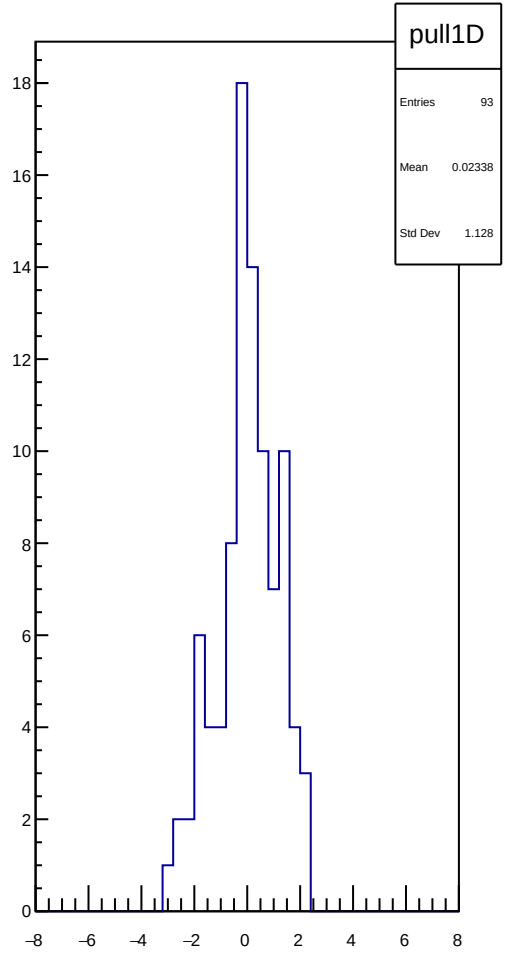

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 92
p0 −0.3038 ± 0.05743
pull
Entries 93
Mean −182.9
Std Dev 0
pull1D
Entries 93
Mean −0.02405
Std Dev 1.038

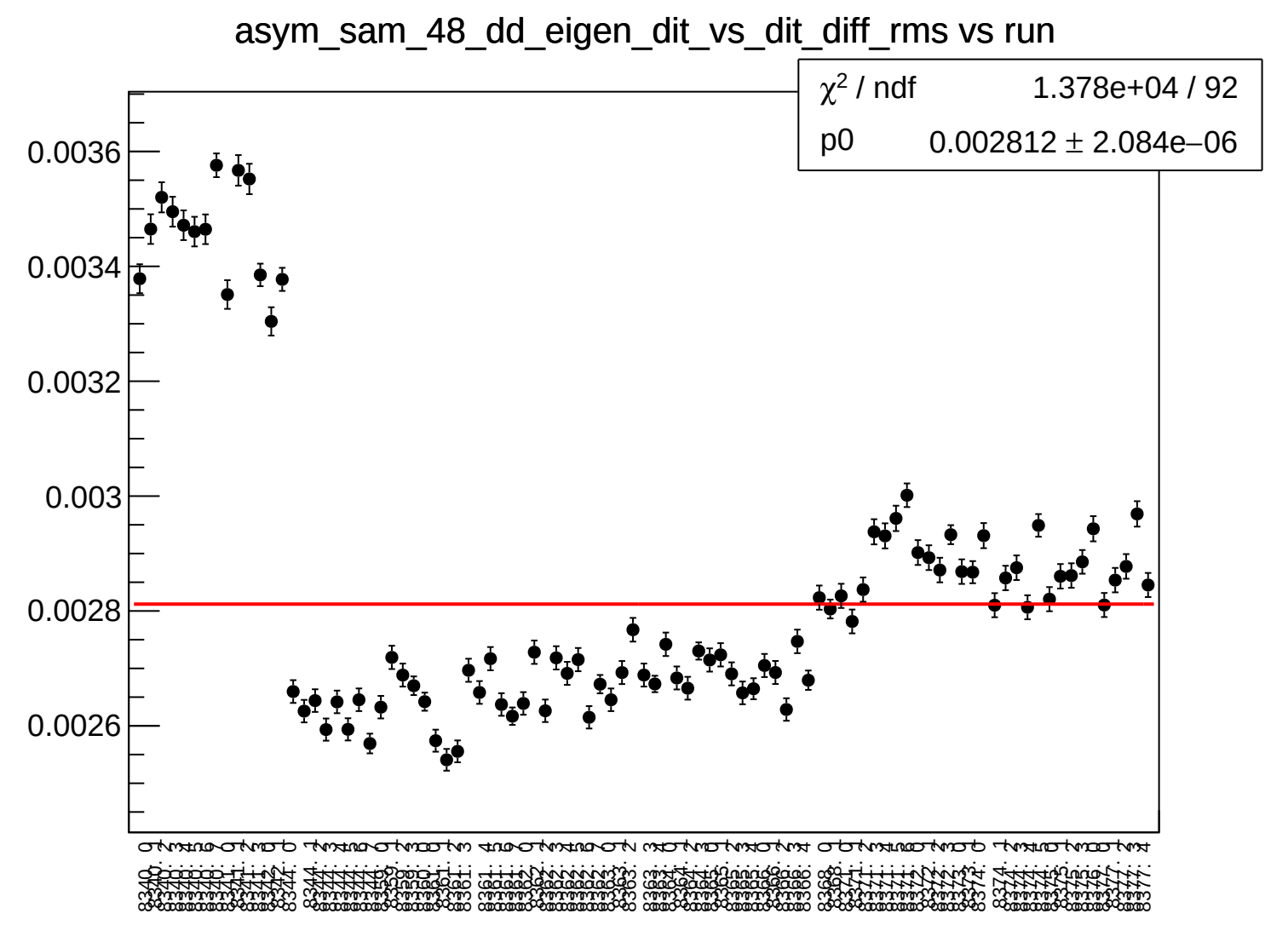

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 92
p0 53.07 ± 0.04061
120
100
80
60
40

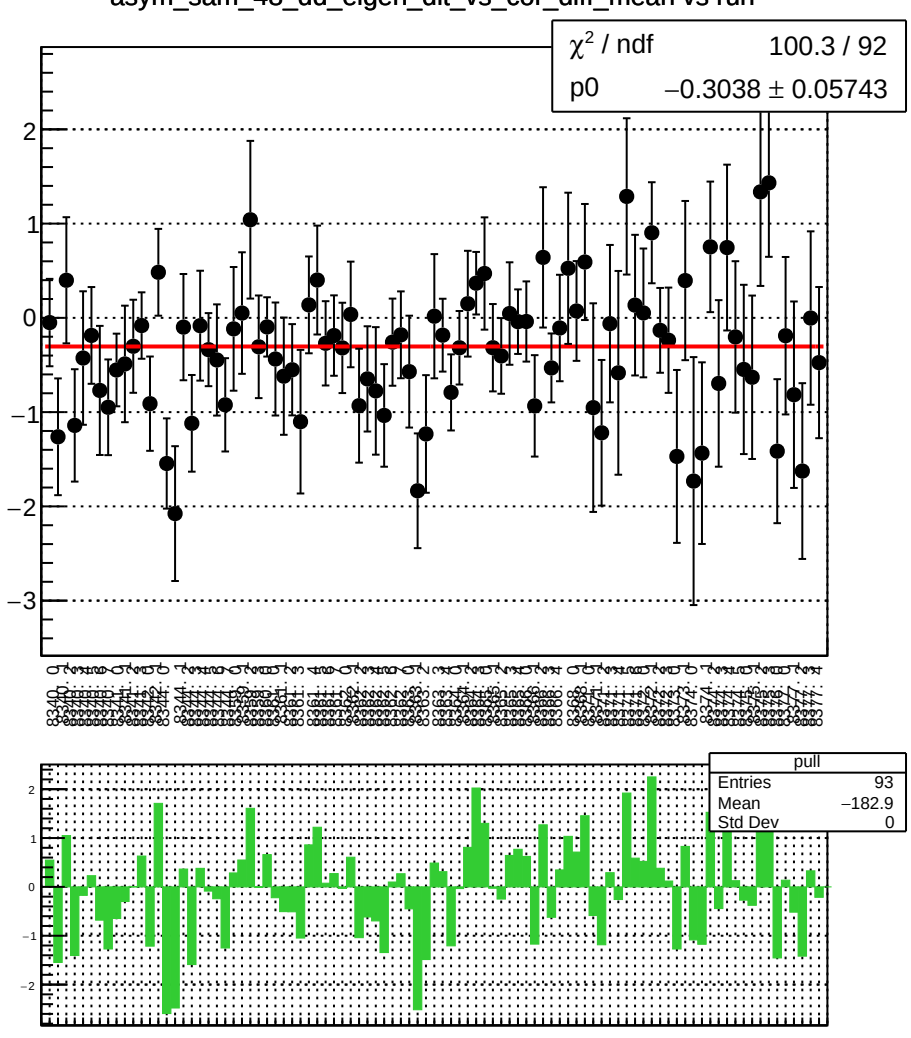

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 92
p0 −0.3038 ± 0.05743
pull
Entries 93
Mean −182.9
Std Dev 0
pull1D
Entries 93
Mean −0.02405
Std Dev 1.038

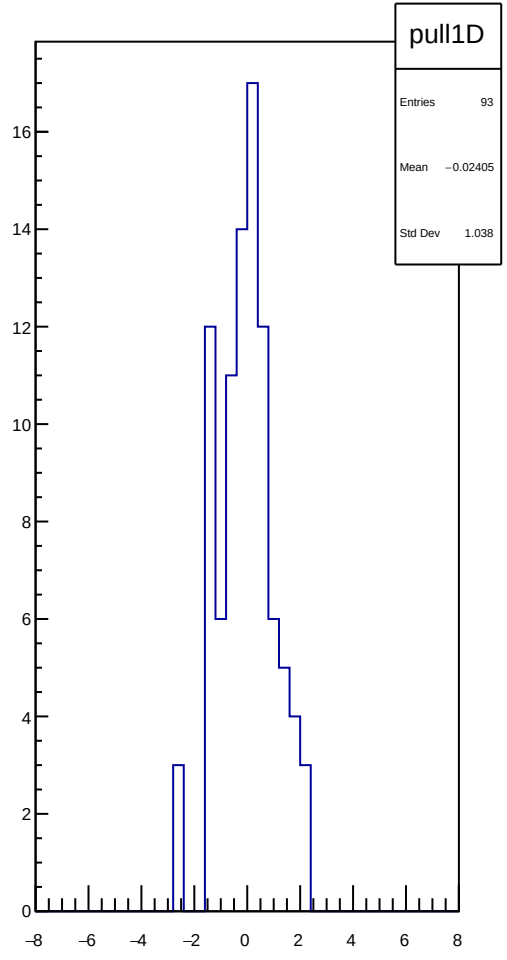

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.257e+05 / 92
p0 53.07 ± 0.04061
120
100
80
60
40

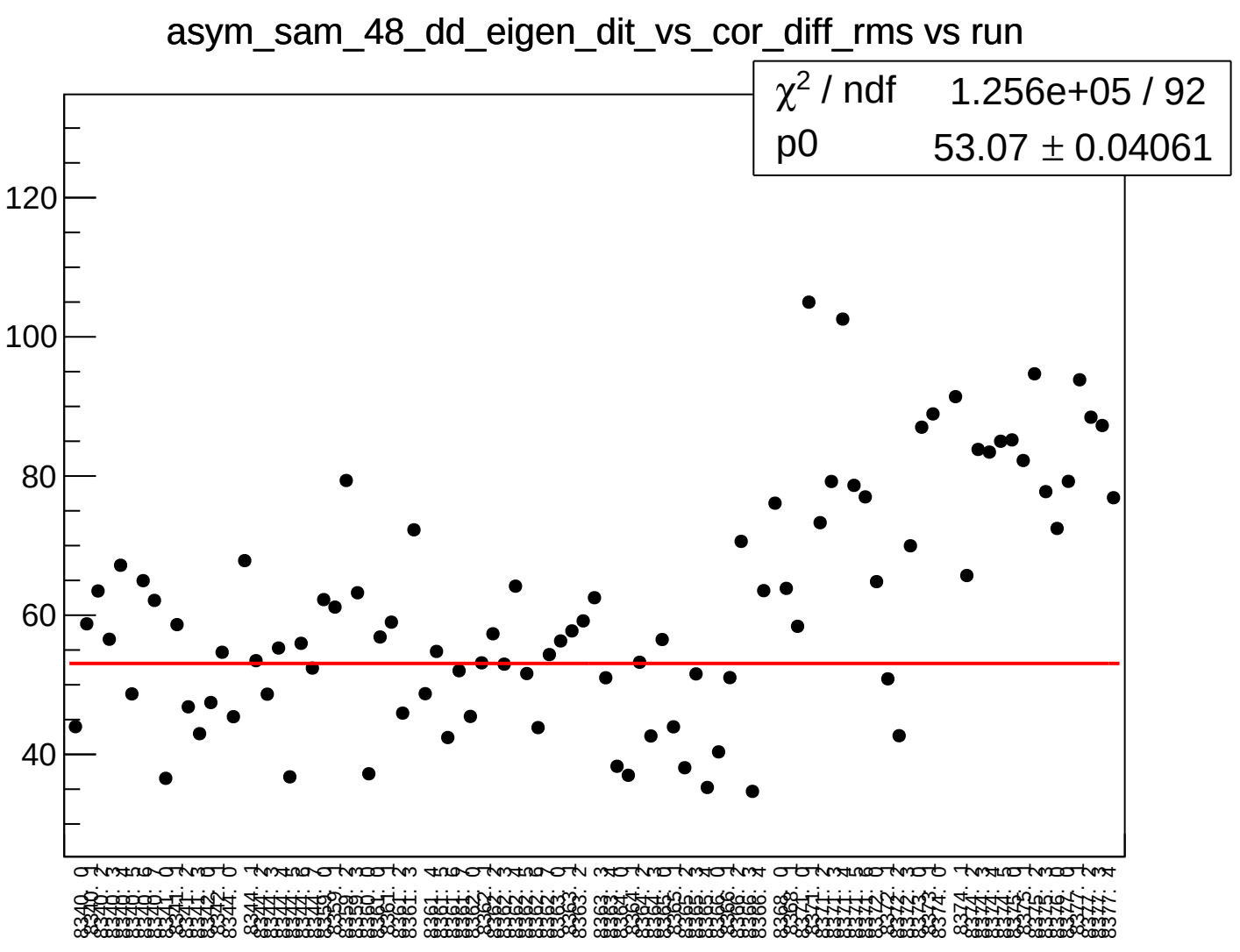

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.3 / 92
p0 −6.525e−06 ± 2.948e−06
pull
Entries 93
Mean 222.2
Std Dev 0

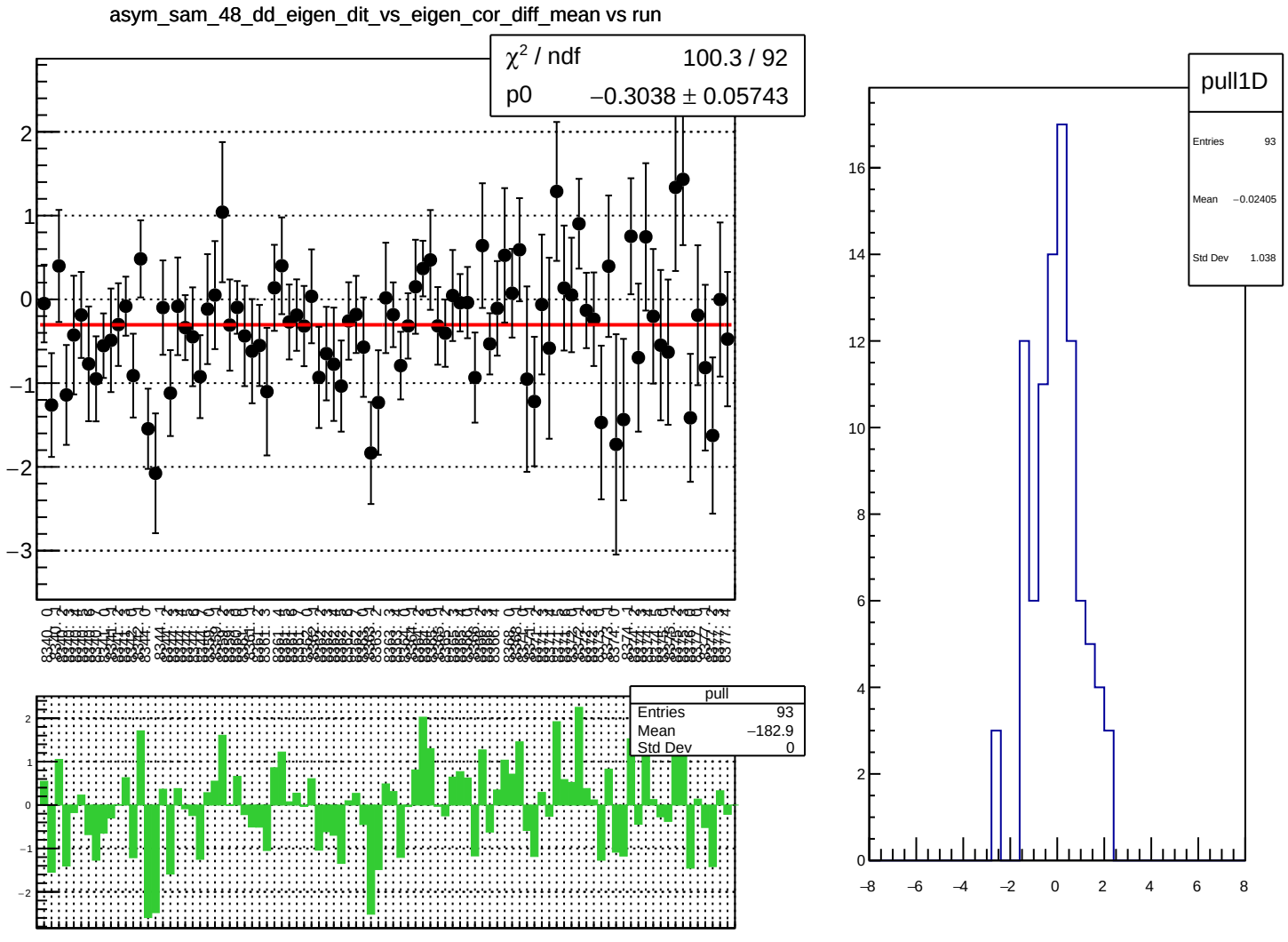

pull1D
Entries 93
Mean 0.02338
Std Dev 1.128

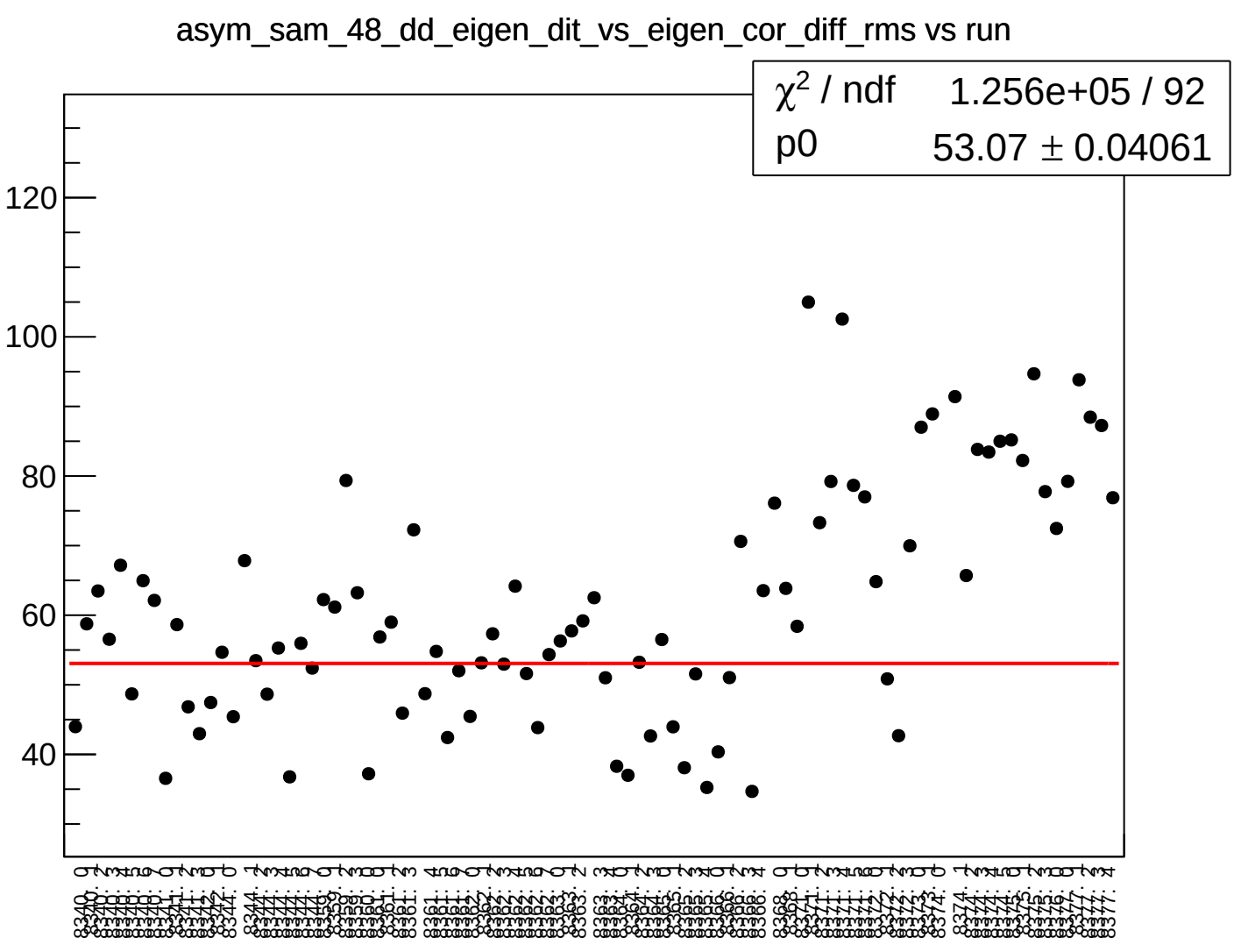

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.378e+04 / 92
p0 0.002812 ± 2.084e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

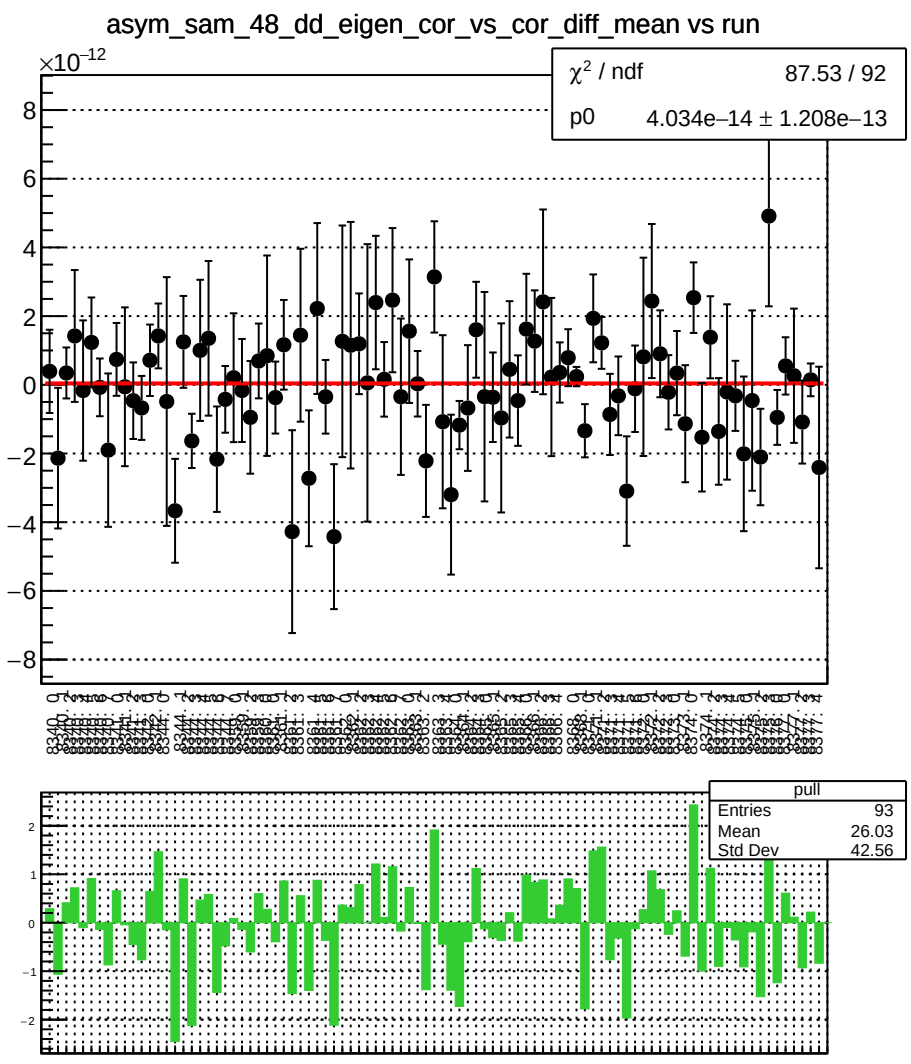

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 92
p0 −0.3038 ± 0.05743
pull
Entries 93
Mean −182.9
Std Dev 0

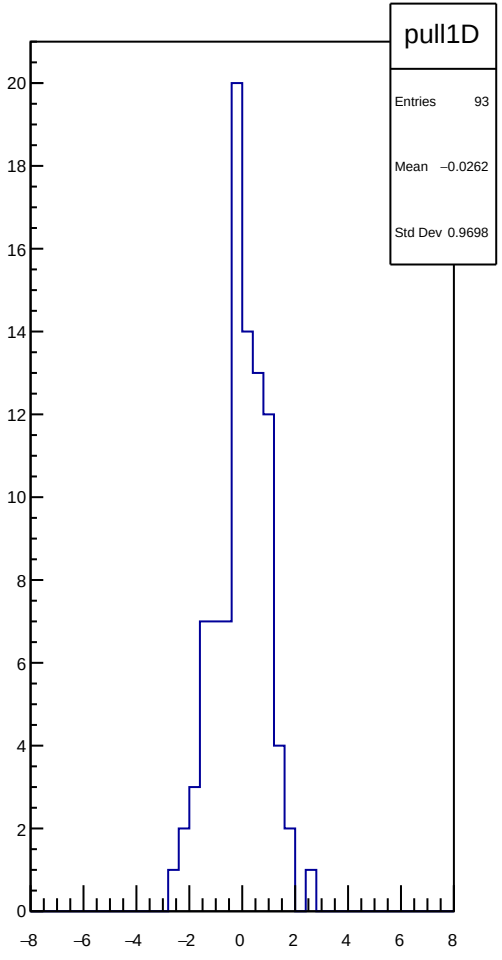

pull1D
Entries 93
Mean −0.02405
Std Dev 1.038

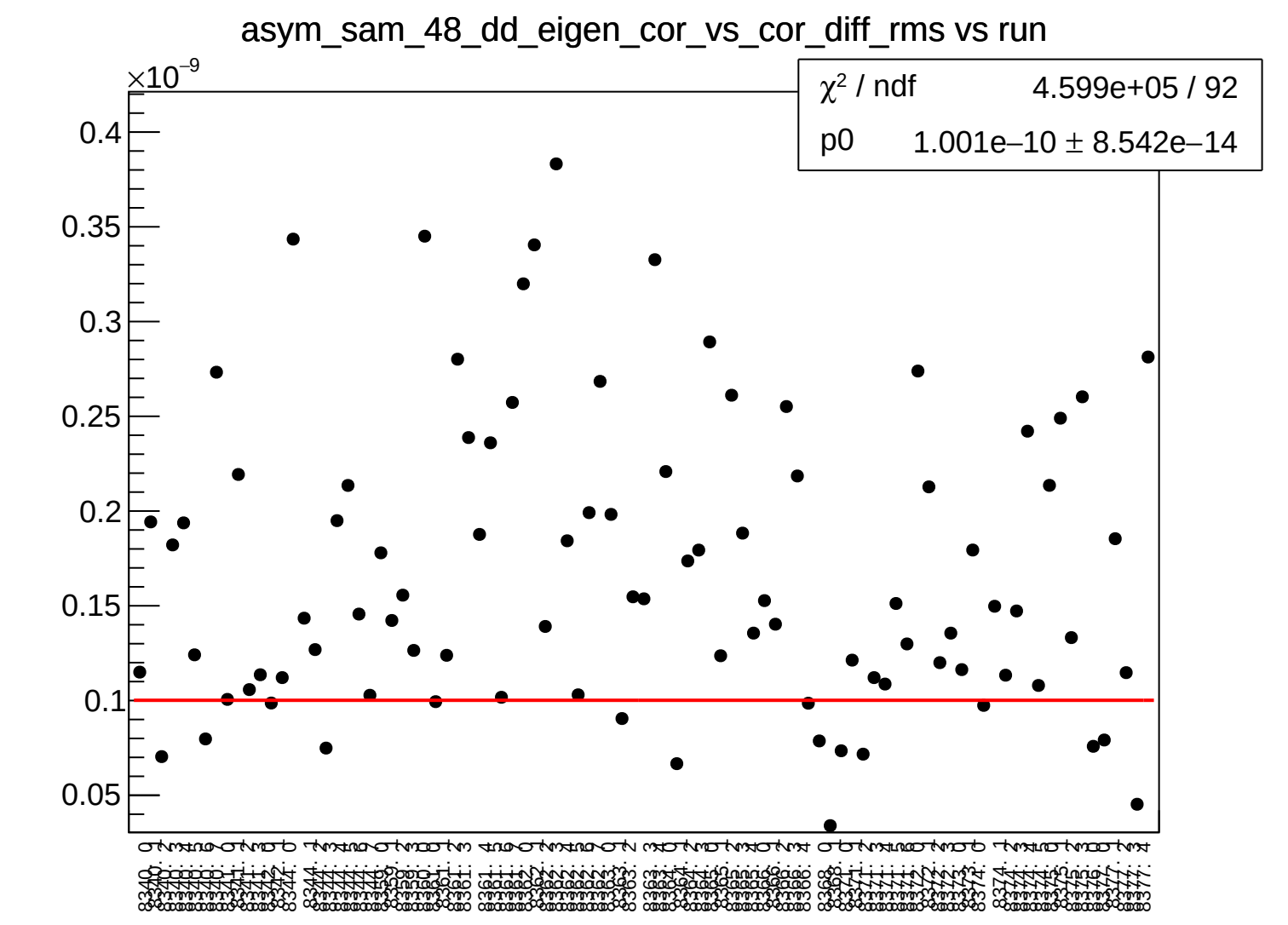

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.256e+05 / 92
p0 53.07 ± 0.04061
120
100
80
60
40

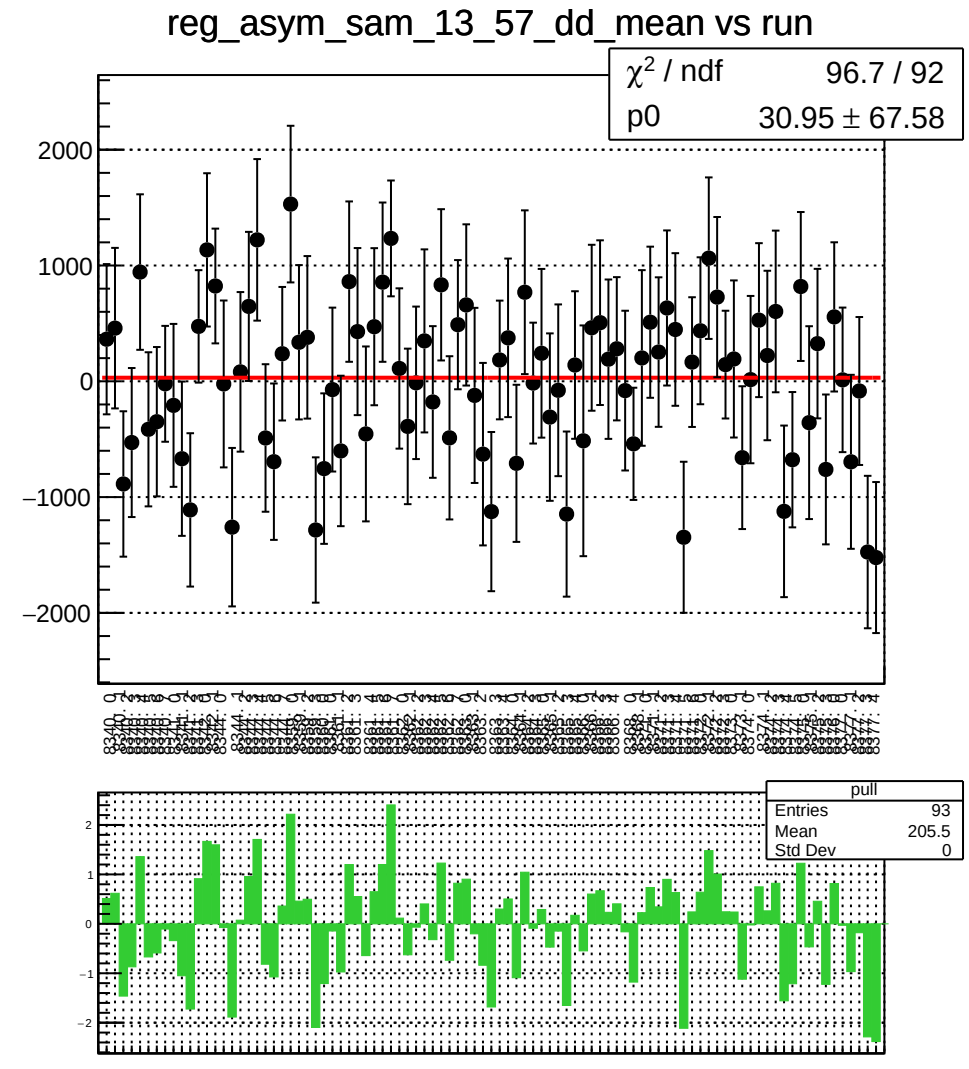

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 92
p0 −0.3038 ± 0.05743
pull
Entries 93
Mean −182.9
Std Dev 0
pull1D
Entries 93
Mean −0.02405
Std Dev 1.038

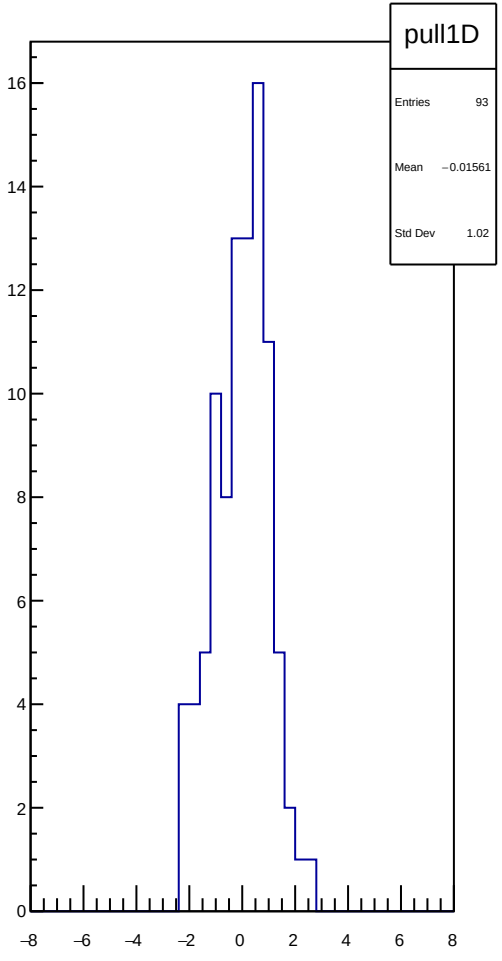

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.256e+05 / 92
p0 53.07 ± 0.04061
120
100
80
60
40

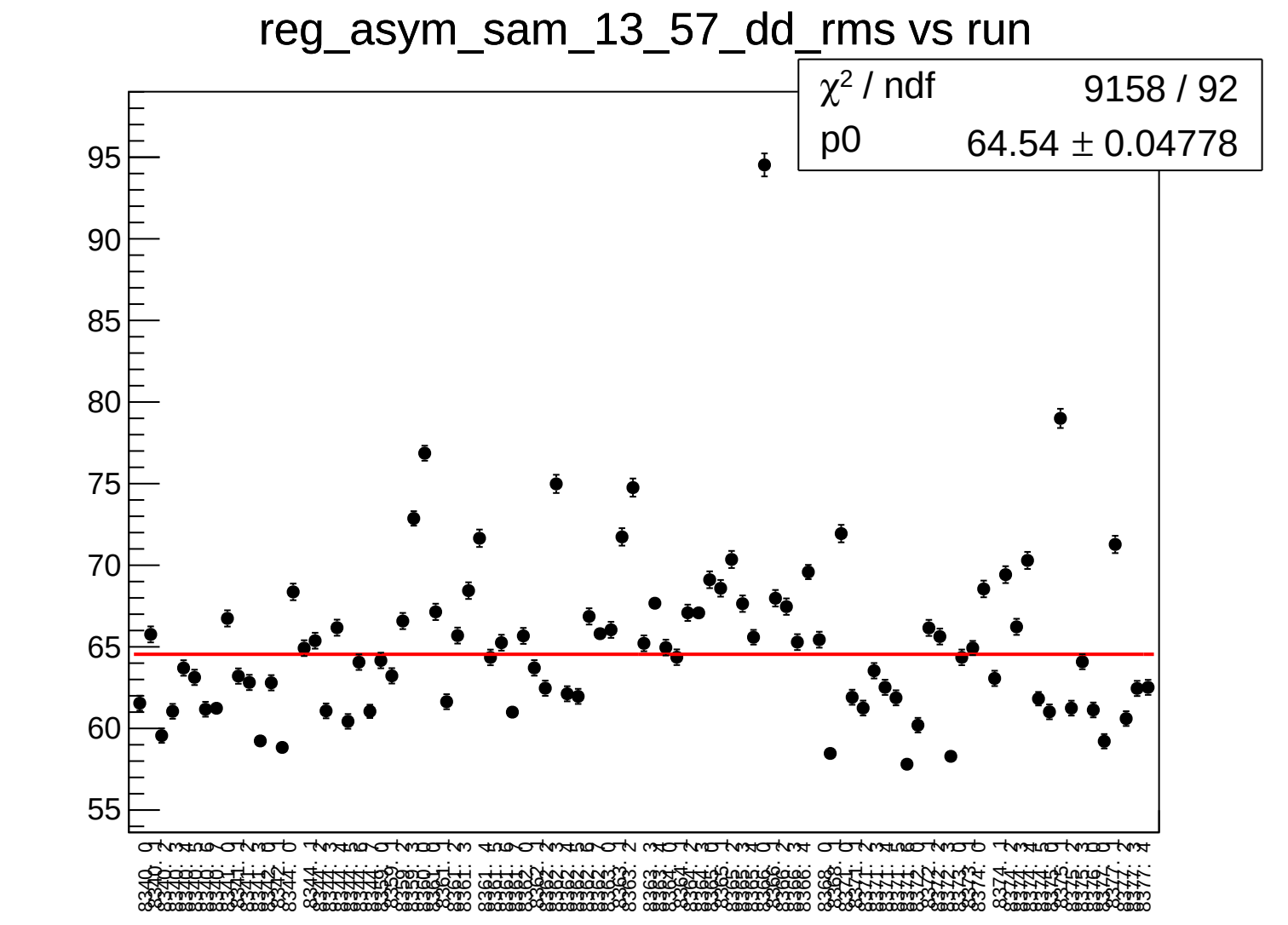

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.53 / 92
p0 4.034e−14 ± 1.208e−13
pull
Entries 93
Mean 26.03
Std Dev 42.56

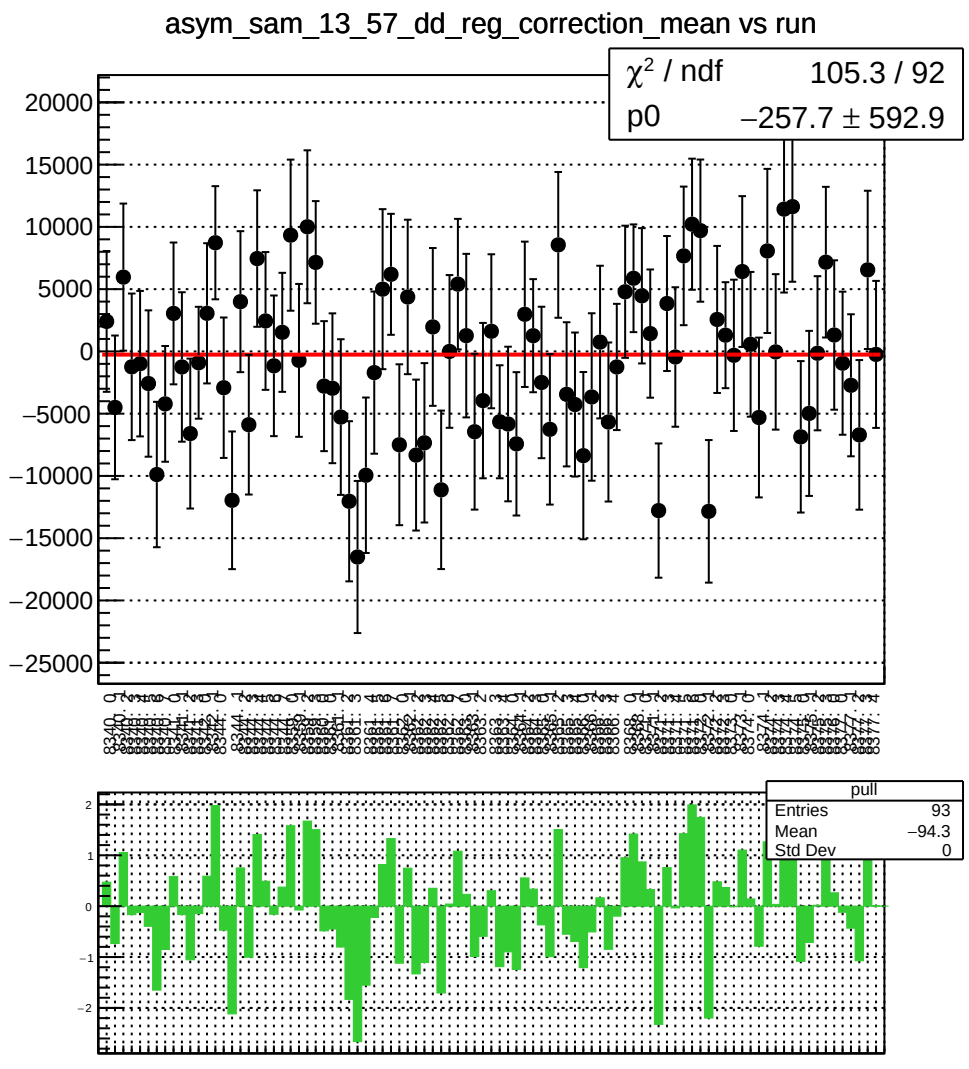

pull1D
Entries 93
Mean −0.0262
Std Dev 0.9698

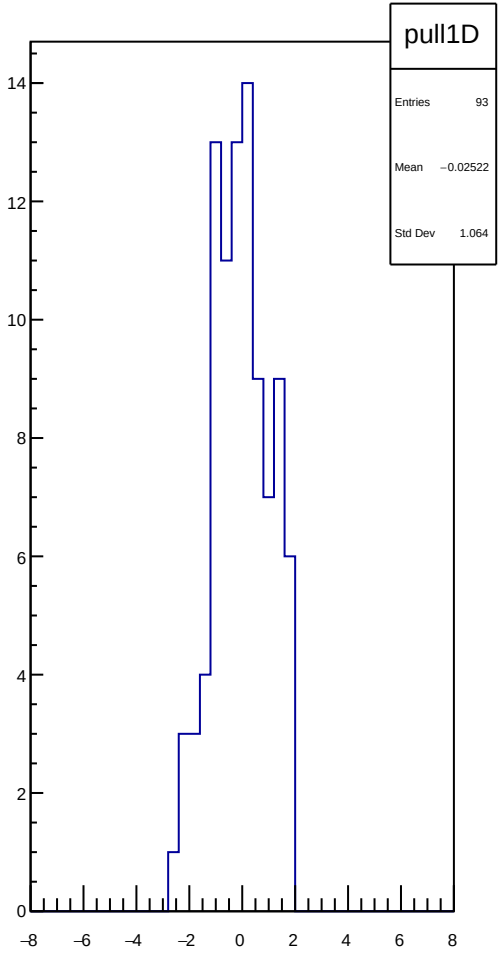

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.599e+05 / 92
p0 1.001e−10 ± 8.542e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

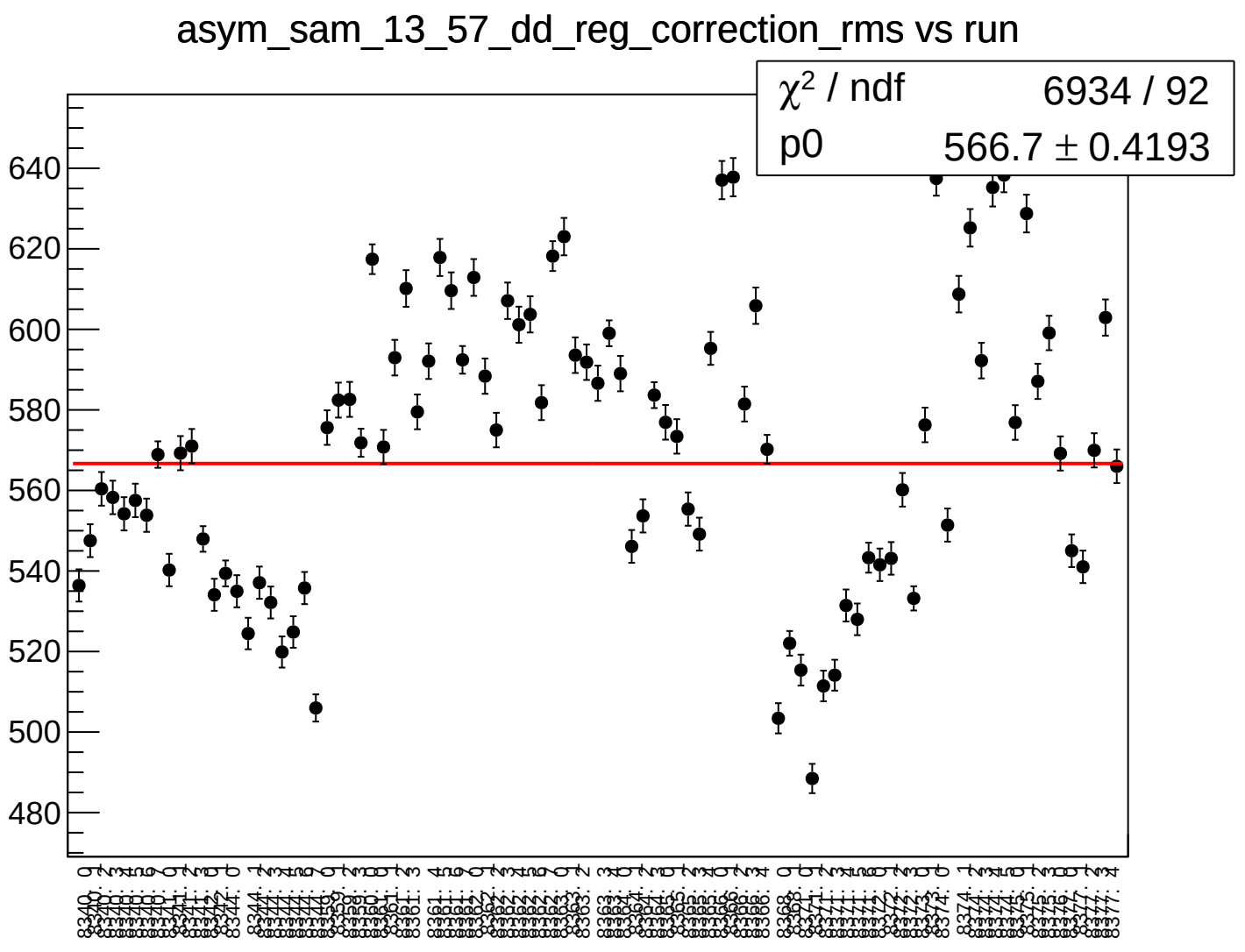

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.7 / 92
p0 30.95 ± 67.58
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 205.5
Std Dev 0
2
1
0
−1
−2

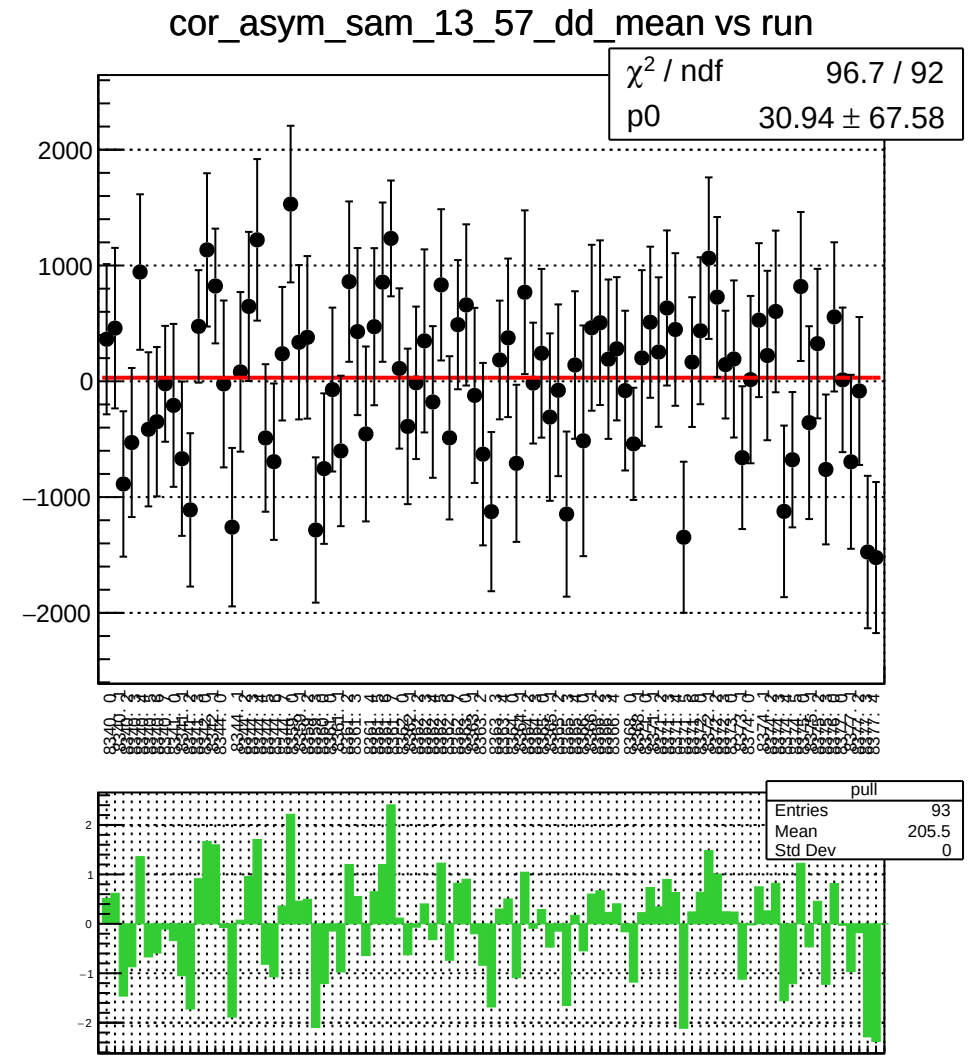

pull1D
Entries 93
Mean −0.01561
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

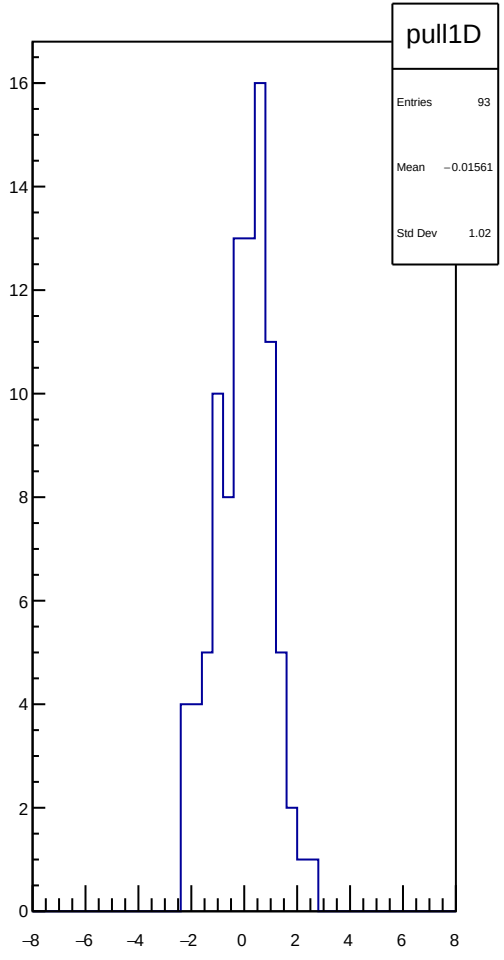

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 9158 / 92
p0 64.54 ± 0.04778
95
90
85
80
75
70
65
60
55

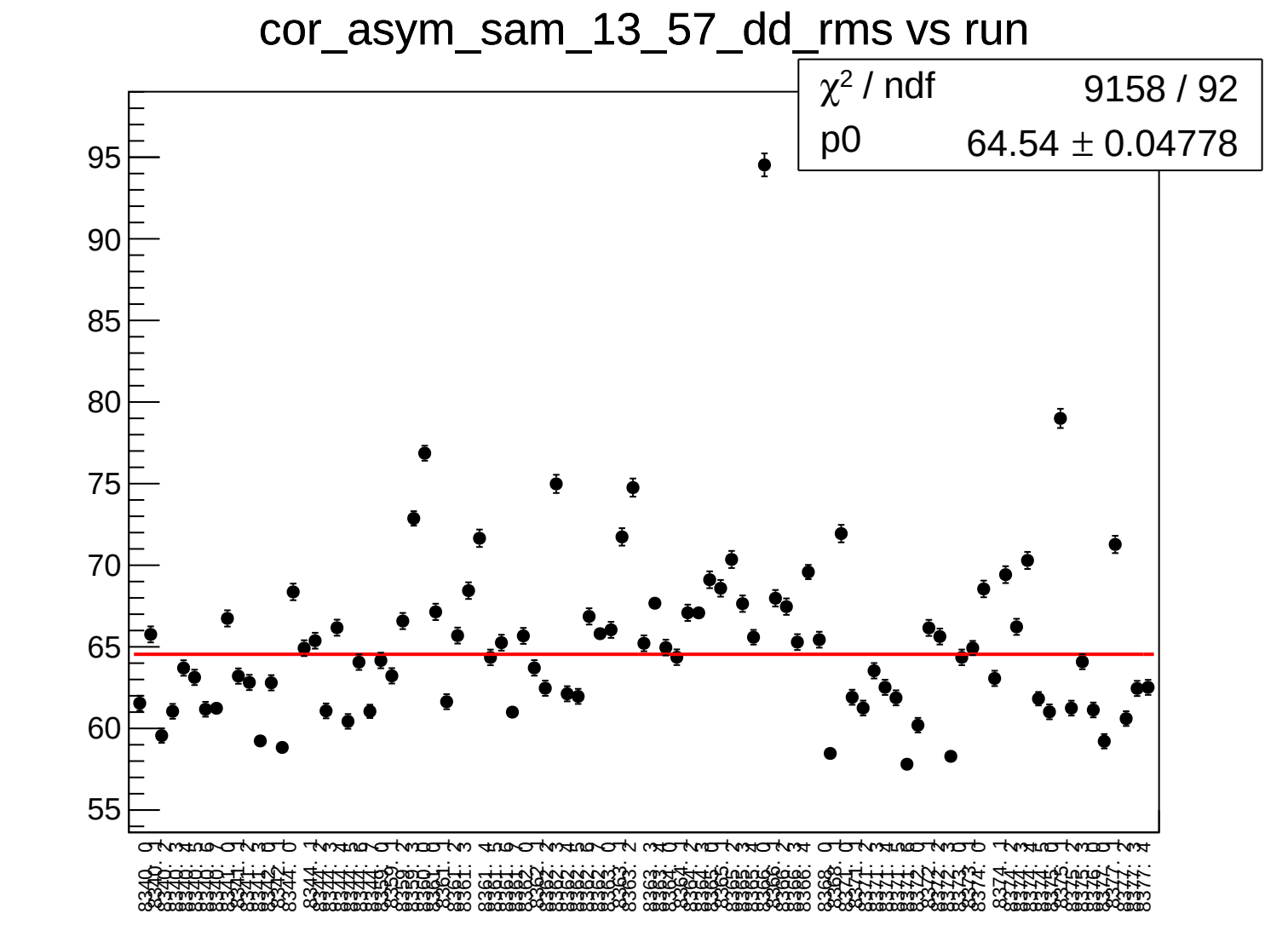

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 105.3 / 92
p0 −257.7 ± 592.9
pull
Entries 93
Mean −94.3
Std Dev 0

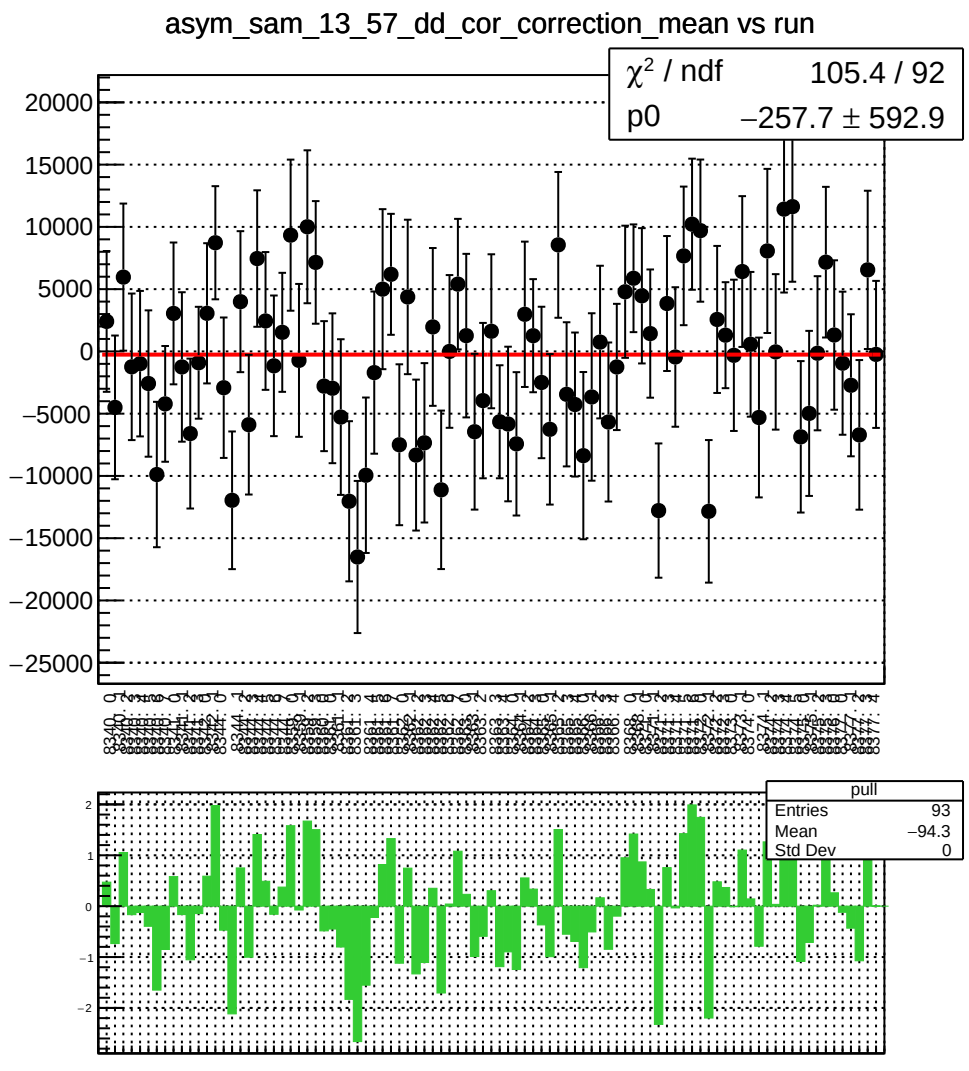

pull1D
Entries 93
Mean −0.02522
Std Dev 1.064

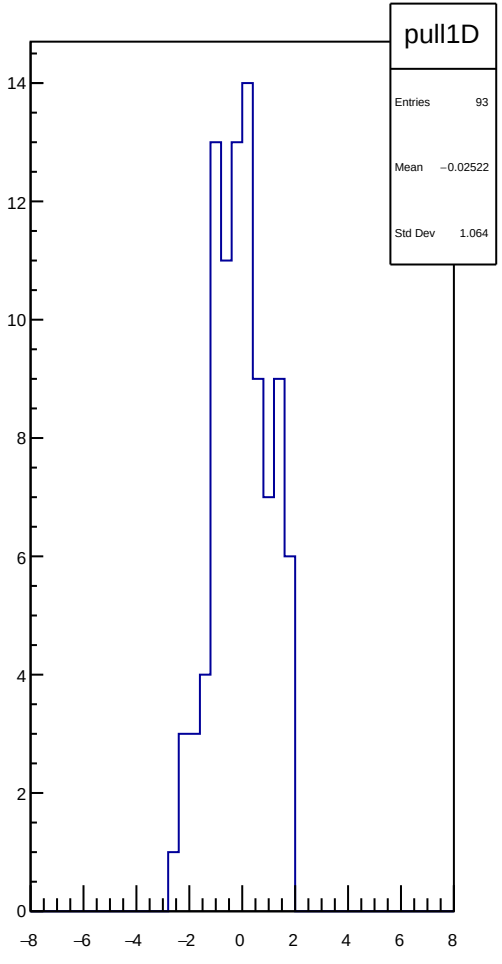

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 6934 / 92
p0 566.7 ± 0.4193
640
620
600
580
560
540
520
500
480

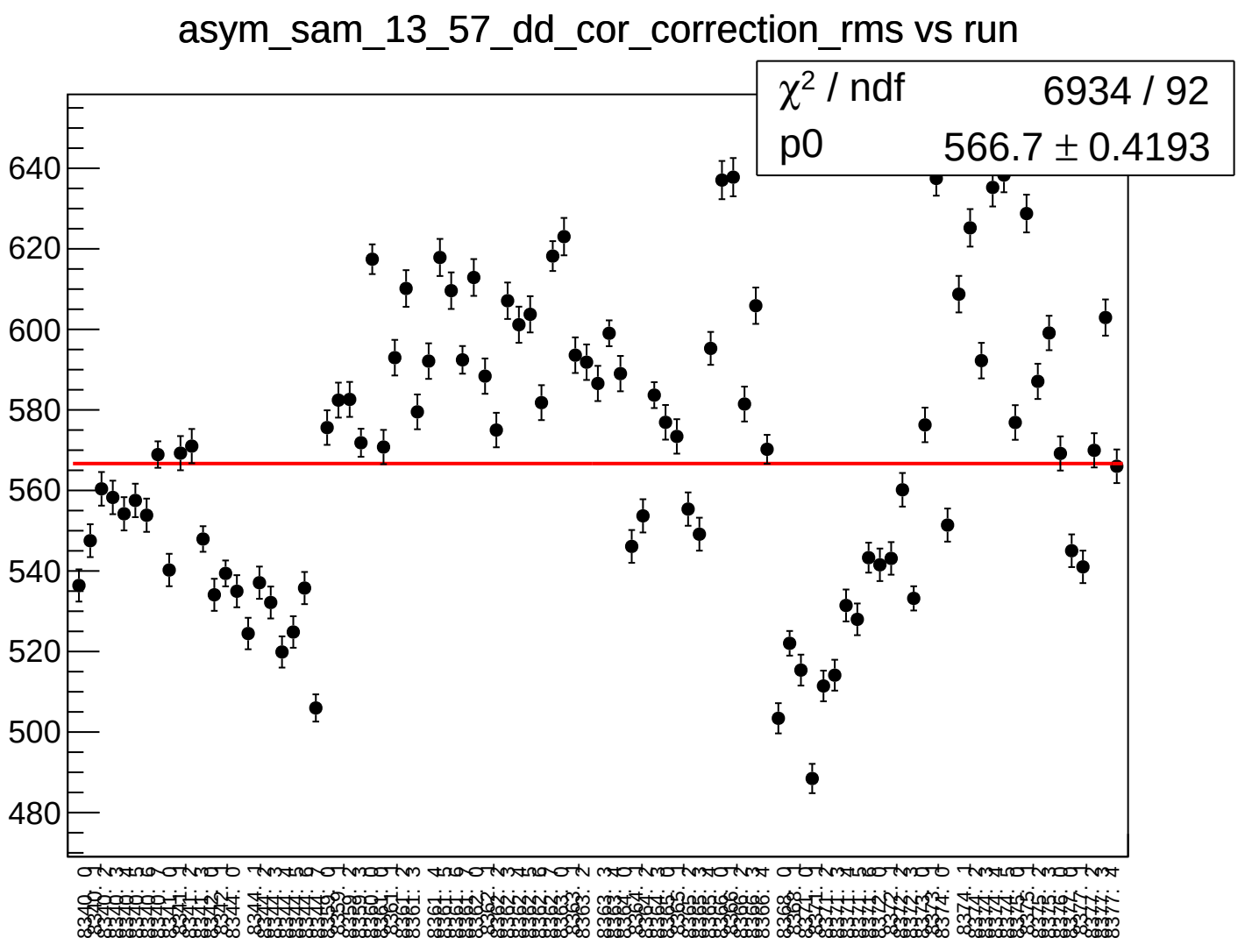

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 96.7 / 92
p0 30.94 ± 67.58
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 205.5
Std Dev 0
2
1
0
−1
−2

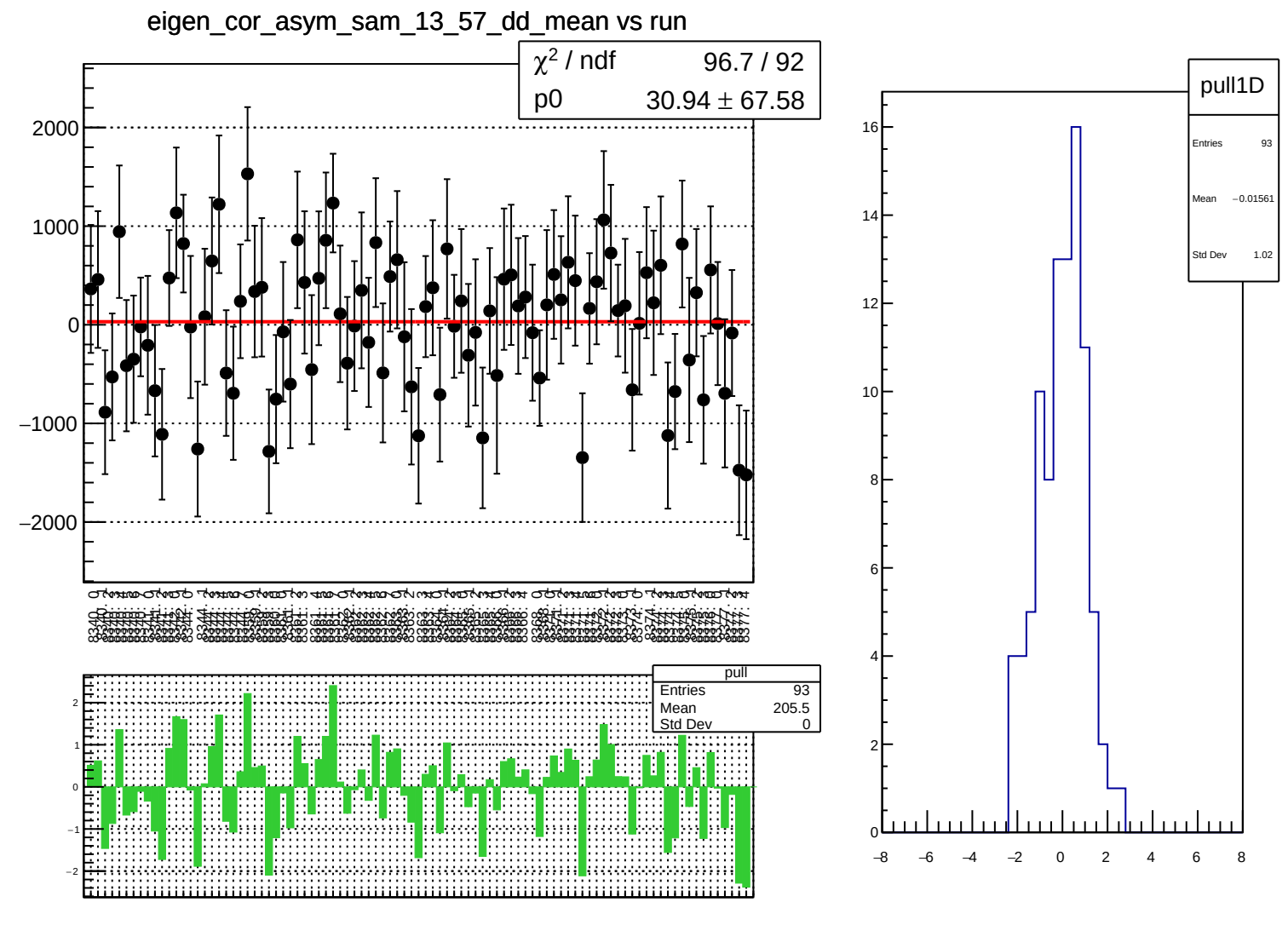

pull1D
Entries 93
Mean −0.01561
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

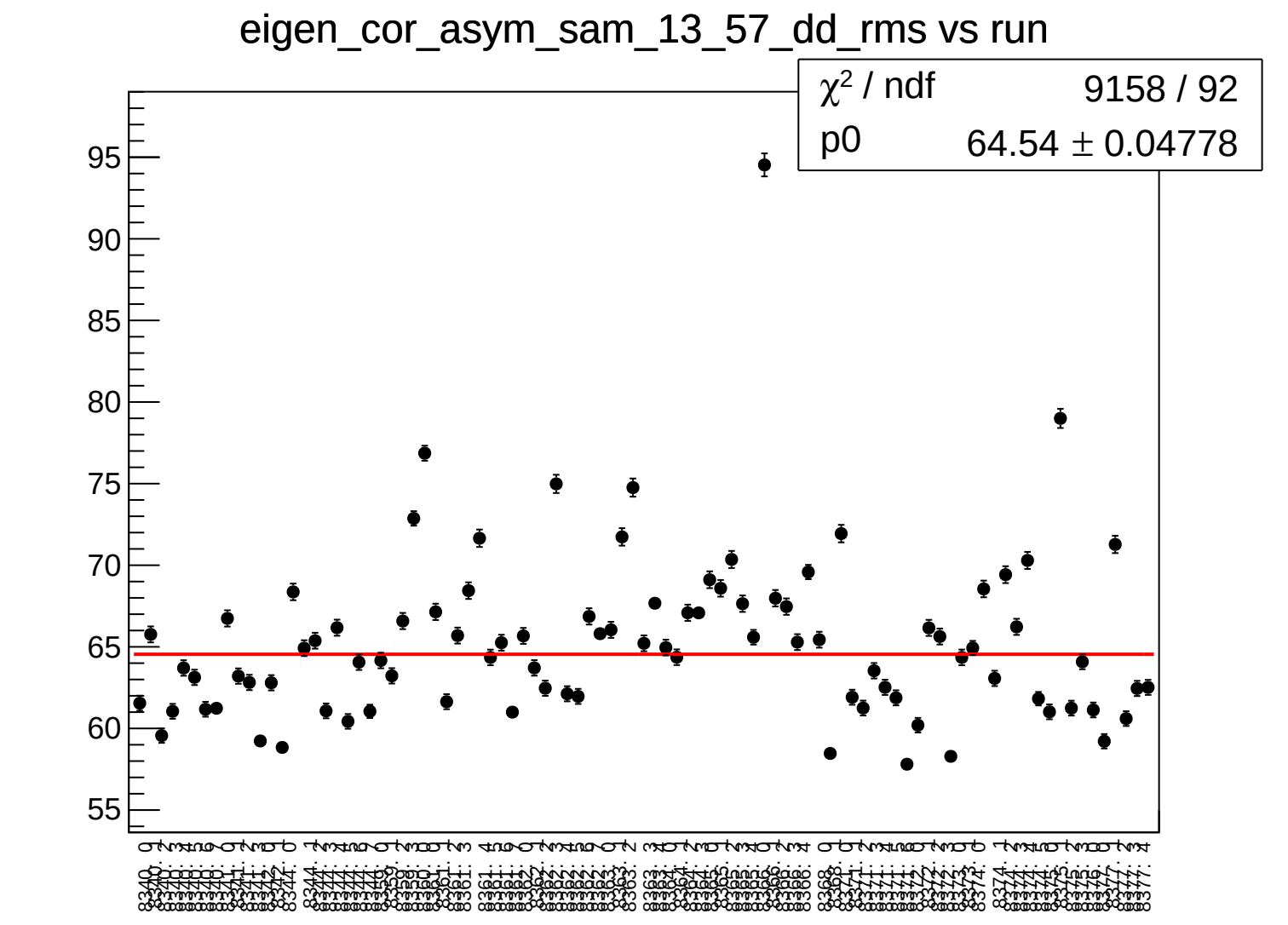

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9158 / 92
p0 64.54 ± 0.04778
95
90
85
80
75
70
65
60
55

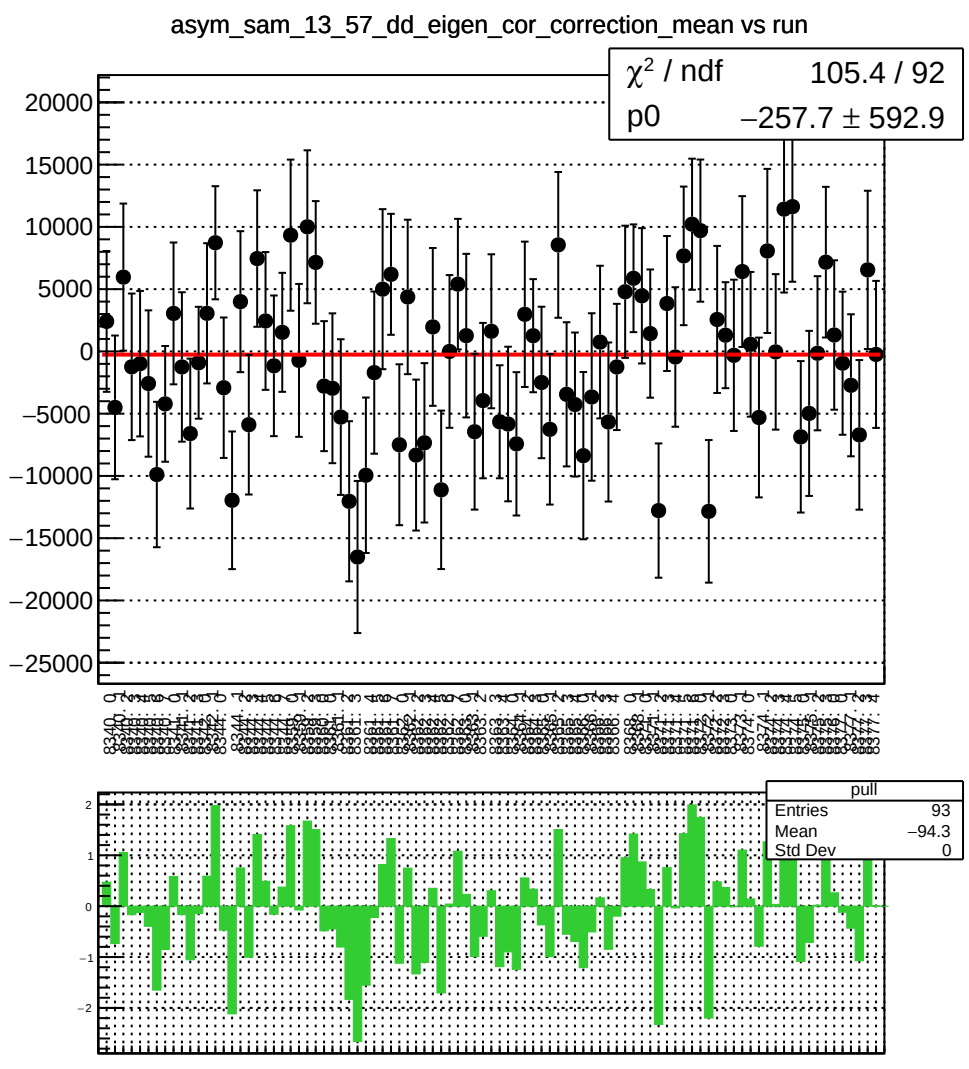

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 105.4 / 92
p0 −257.7 ± 592.9
pull
Entries 93
Mean −94.3
Std Dev 0

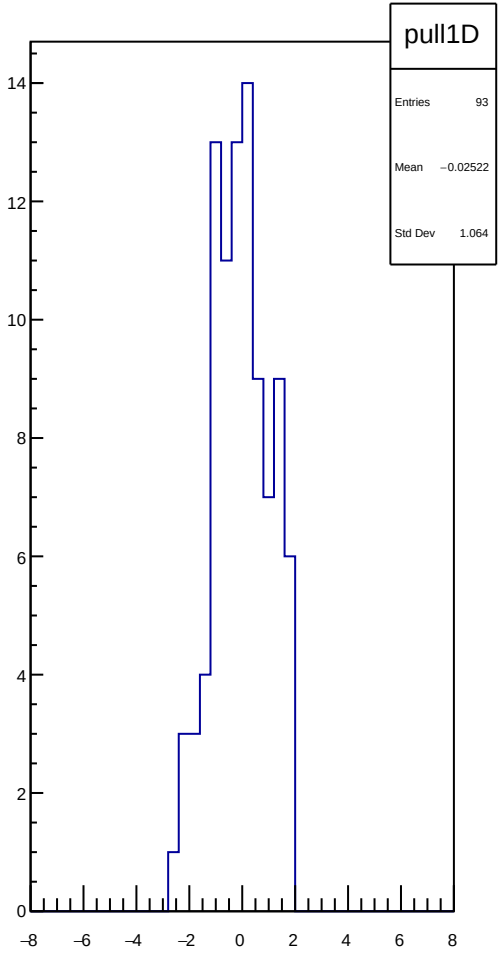

pull1D
Entries 93
Mean −0.02522
Std Dev 1.064

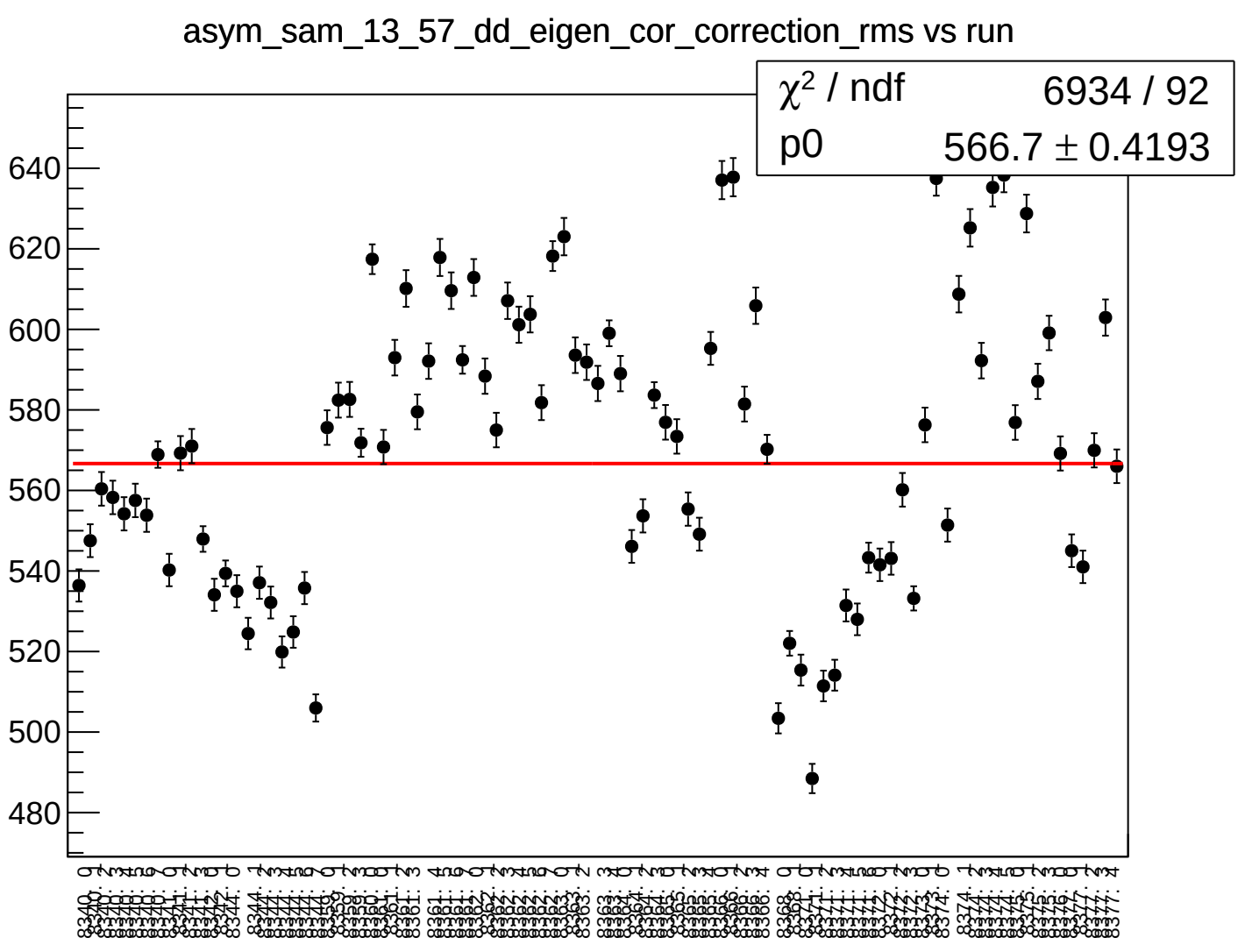

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 6934 / 92
p0 566.7 ± 0.4193
640
620
600
580
560
540
520
500
480

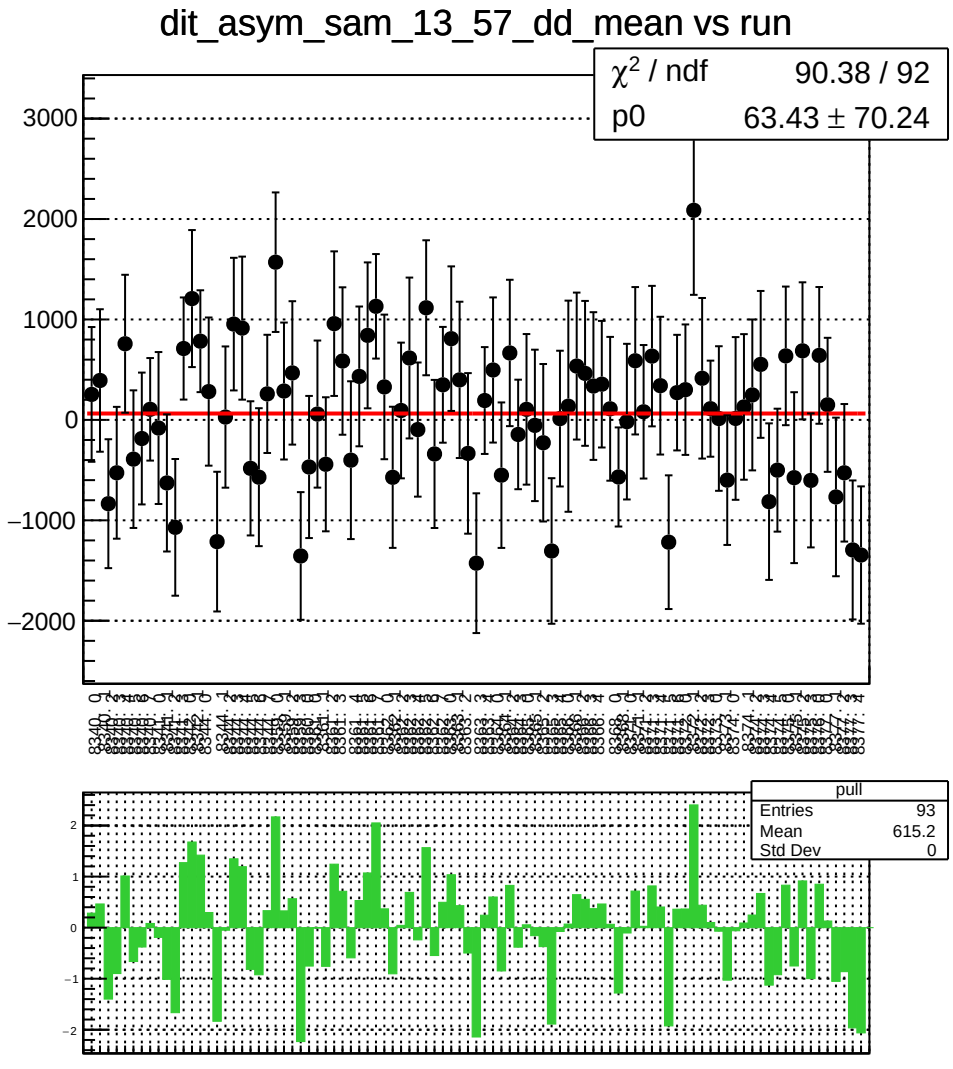

eigen_cor_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 96.7 / 92
p0 30.94 ± 67.58
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 205.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01561
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

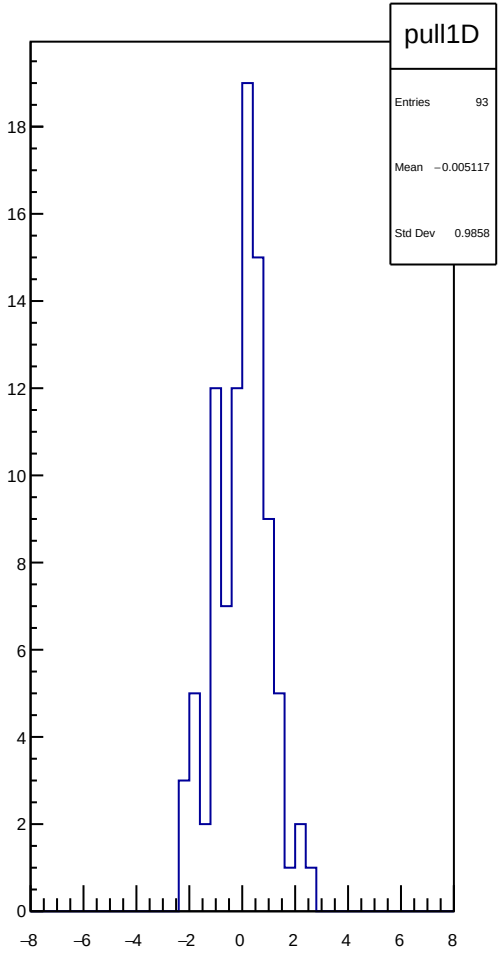

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 9158 / 92
p0 64.54 ± 0.04778
95
90
85
80
75
70
65
60
55

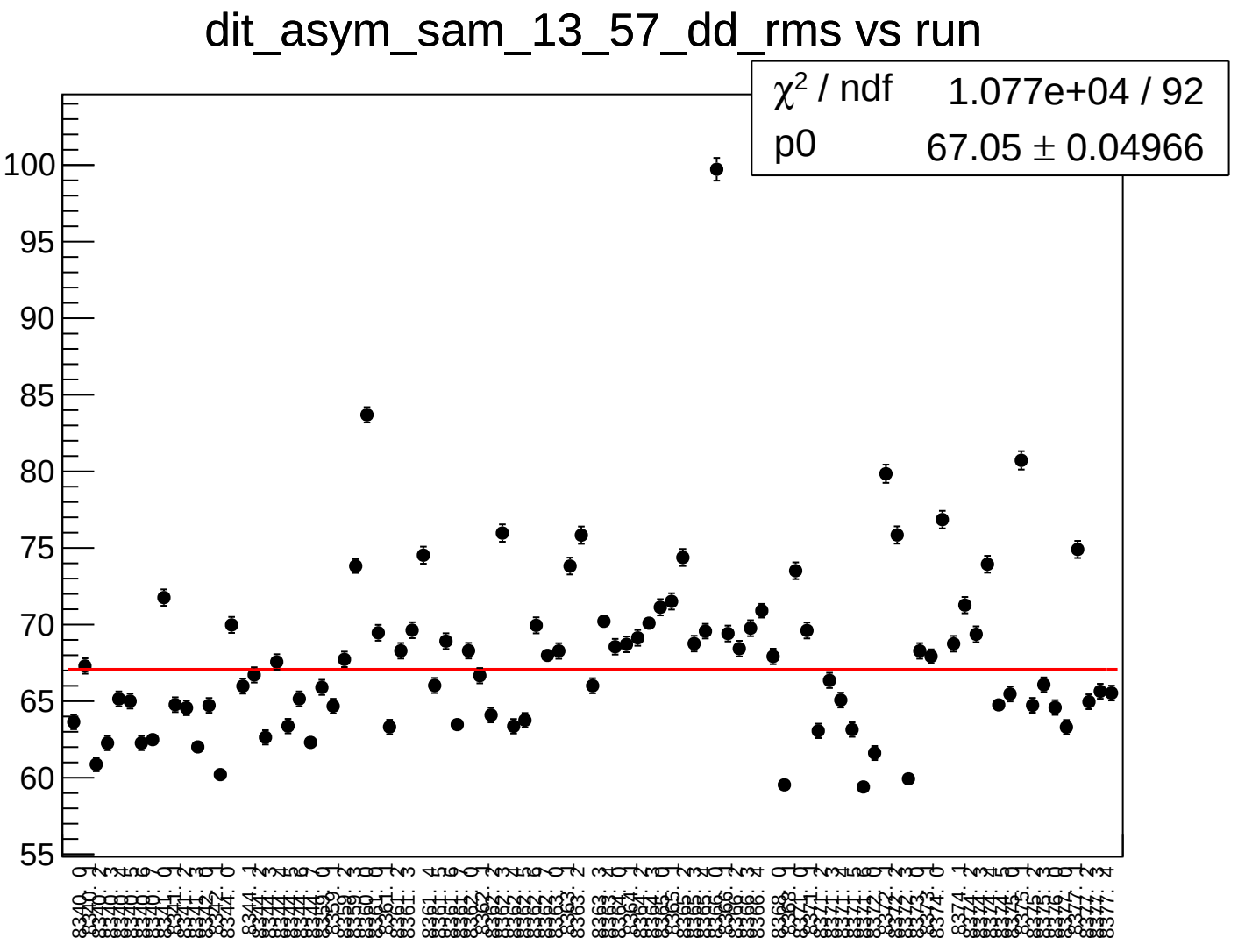

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.4 / 92
p0 −257.7 ± 592.9
pull
Entries 93
Mean −94.3
Std Dev 0

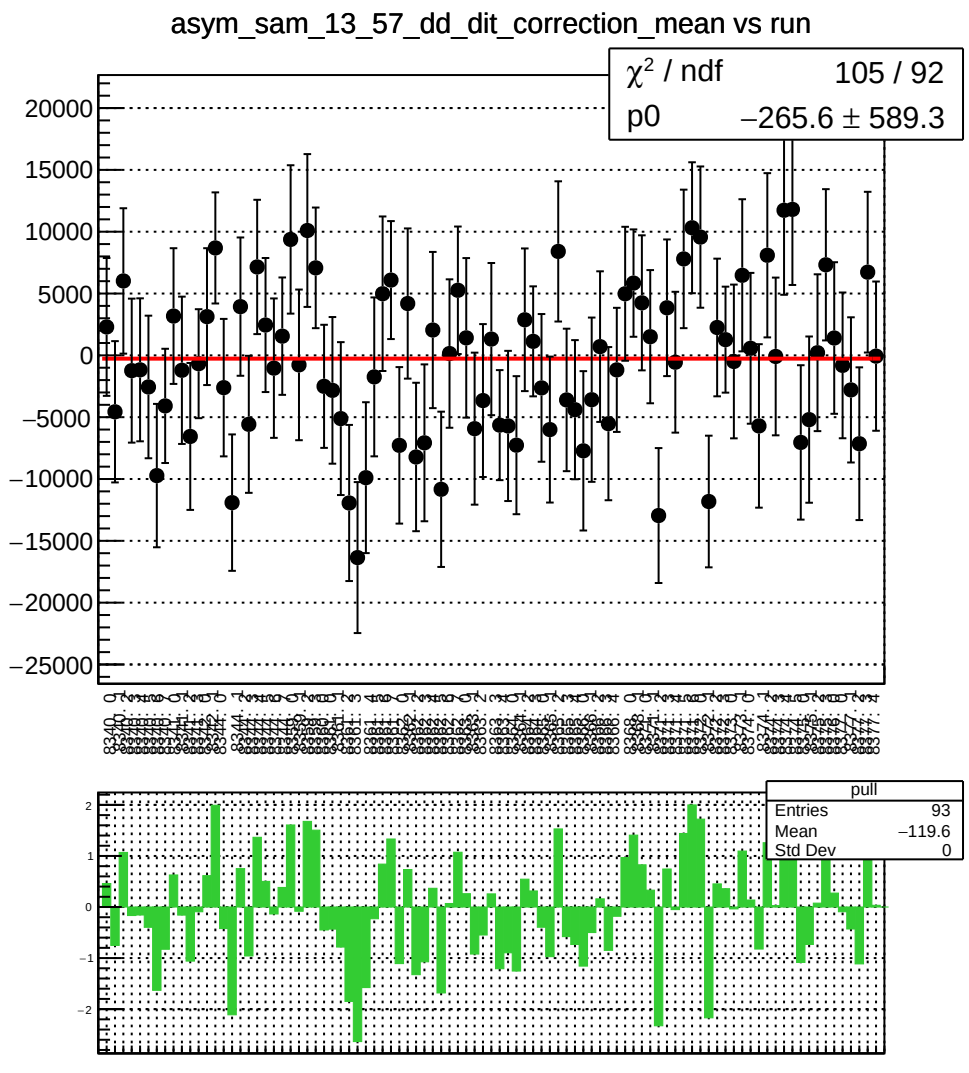

pull1D
Entries 93
Mean −0.02522
Std Dev 1.064

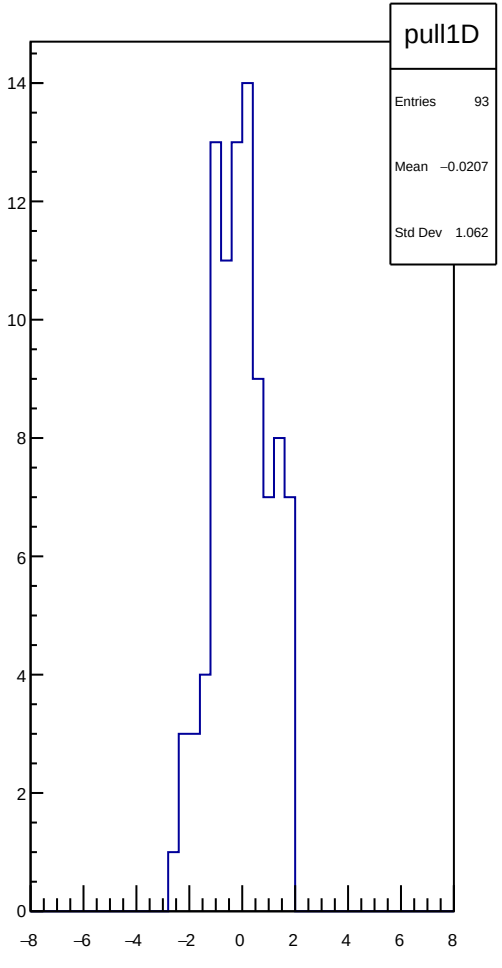

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 6934 / 92
p0 566.7 ± 0.4193
640
620
600
580
560
540
520
500
480

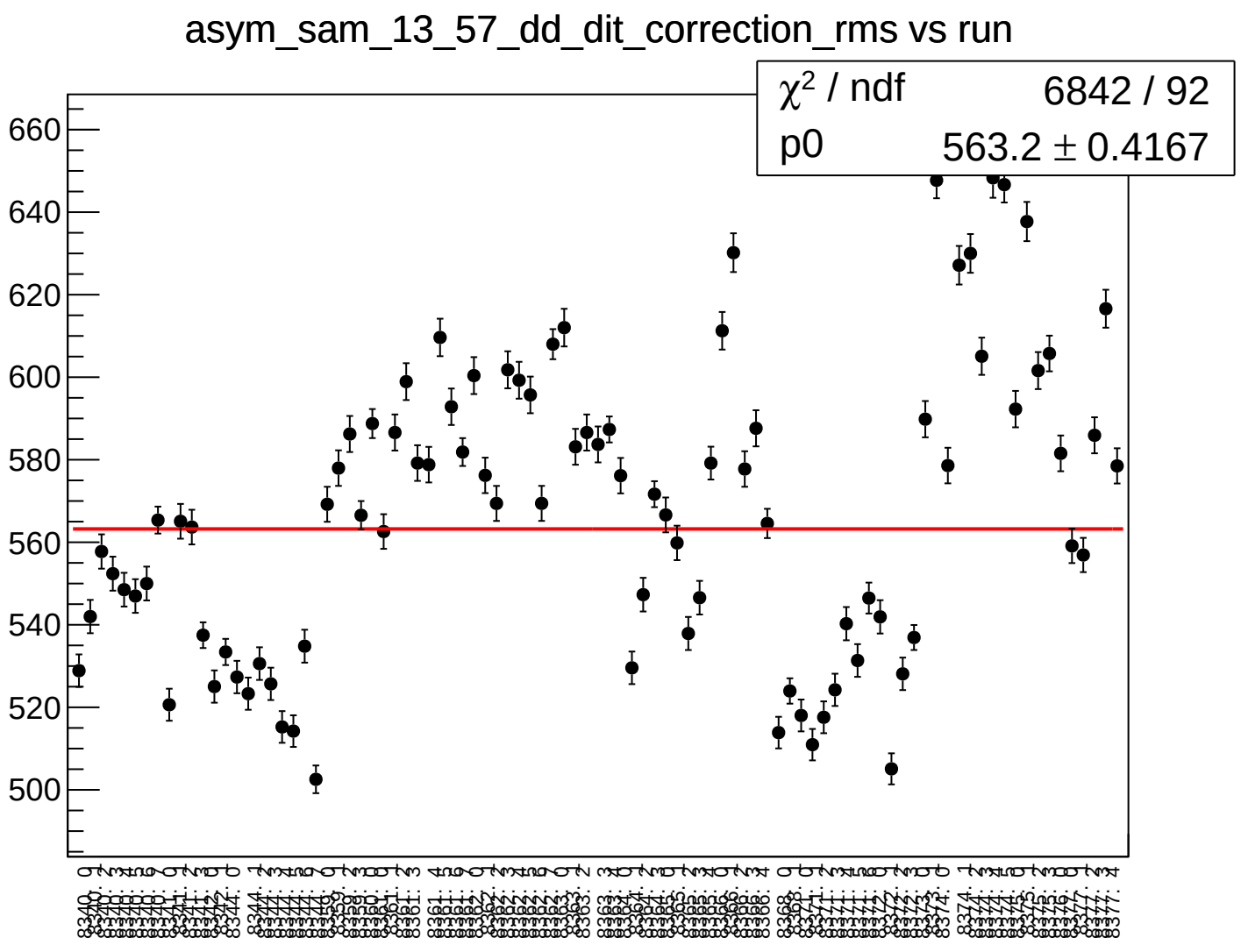

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 90.38 / 92
p0 63.43 ± 70.24
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 615.2
Std Dev 0
2
1
0
−1
−2

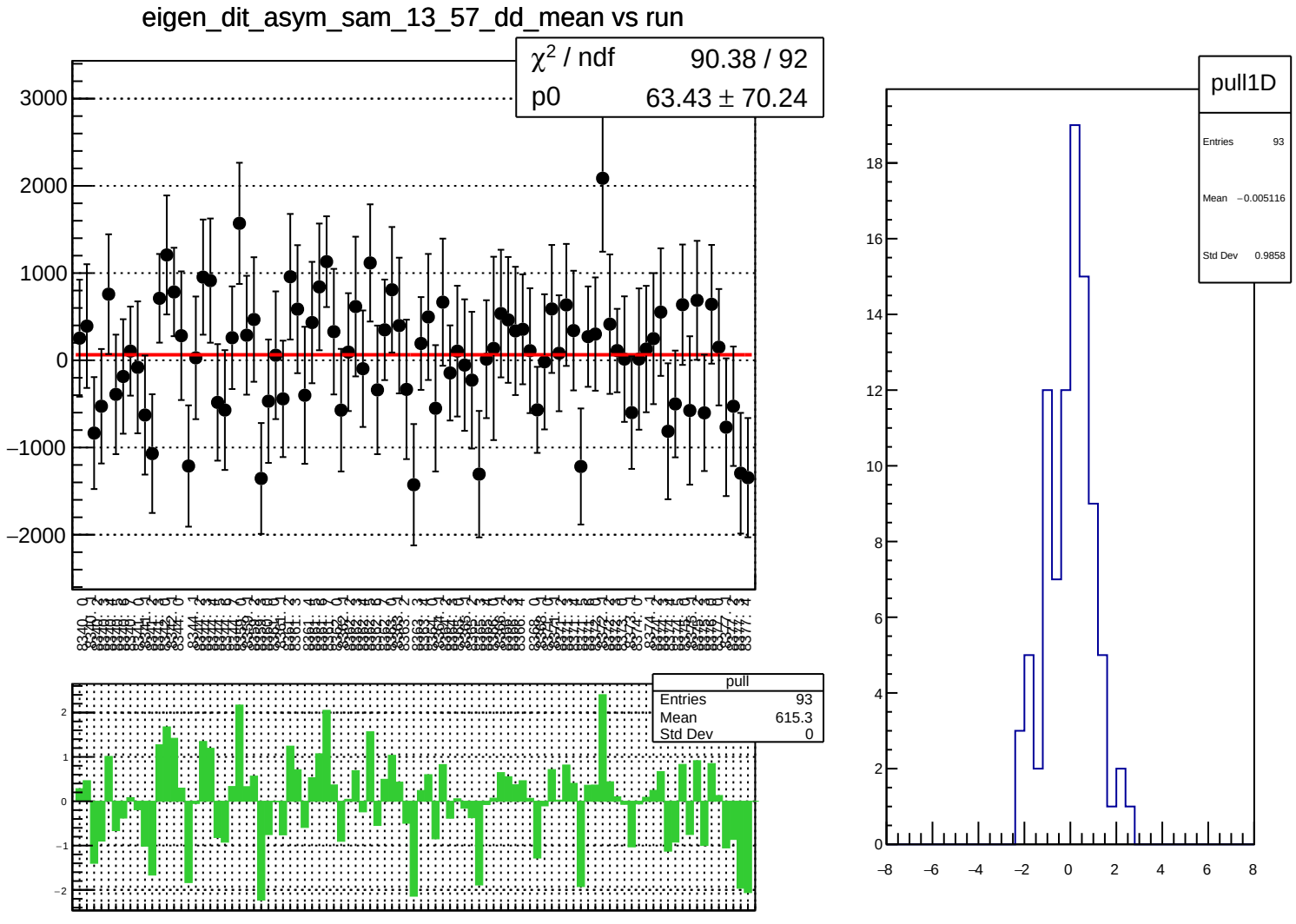

pull1D
Entries 93
Mean −0.005117
Std Dev 0.9858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

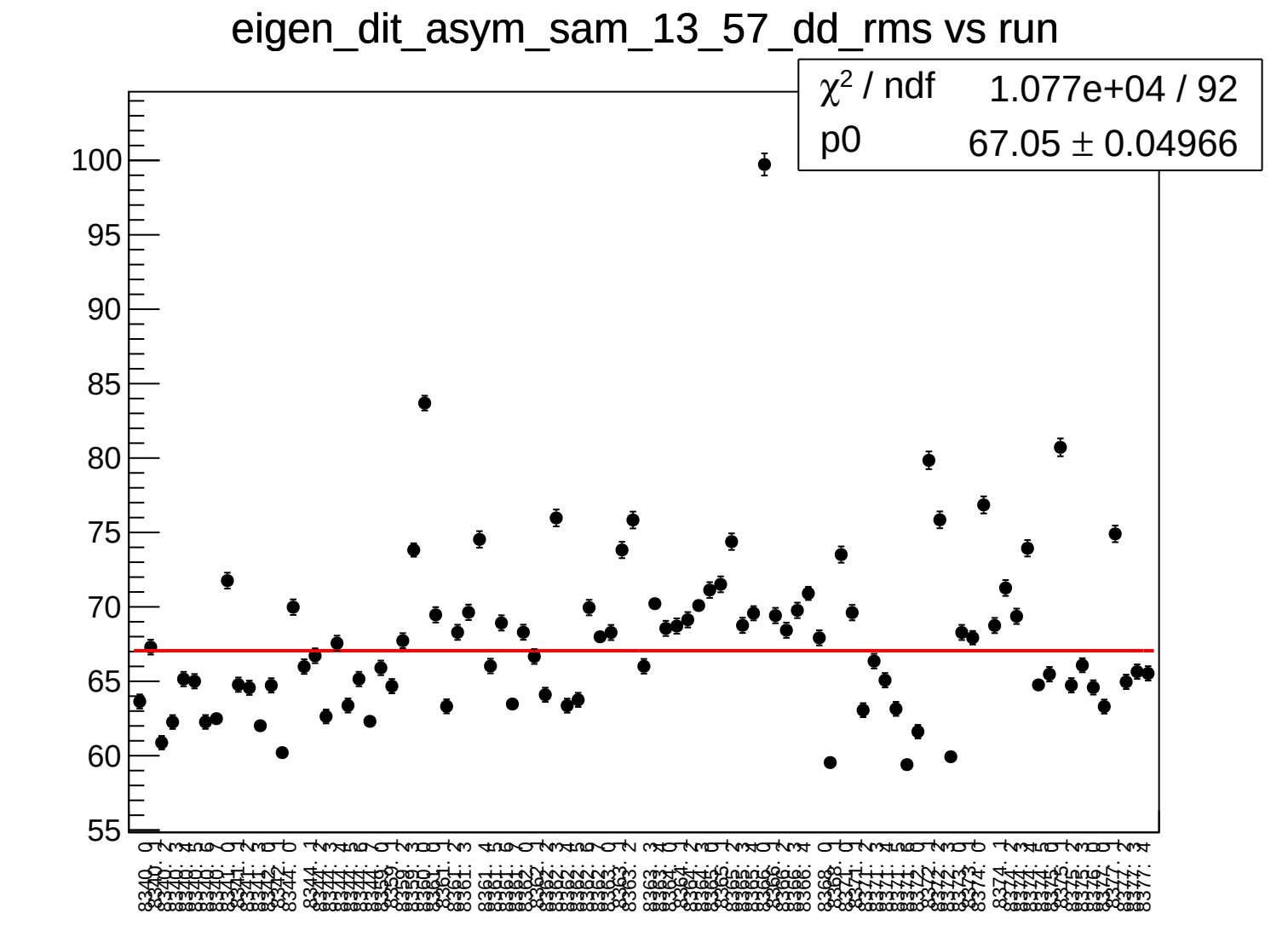

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.077e+04 / 92
p0 67.05 ± 0.04966
100
95
90
85
80
75
70
65
60
55

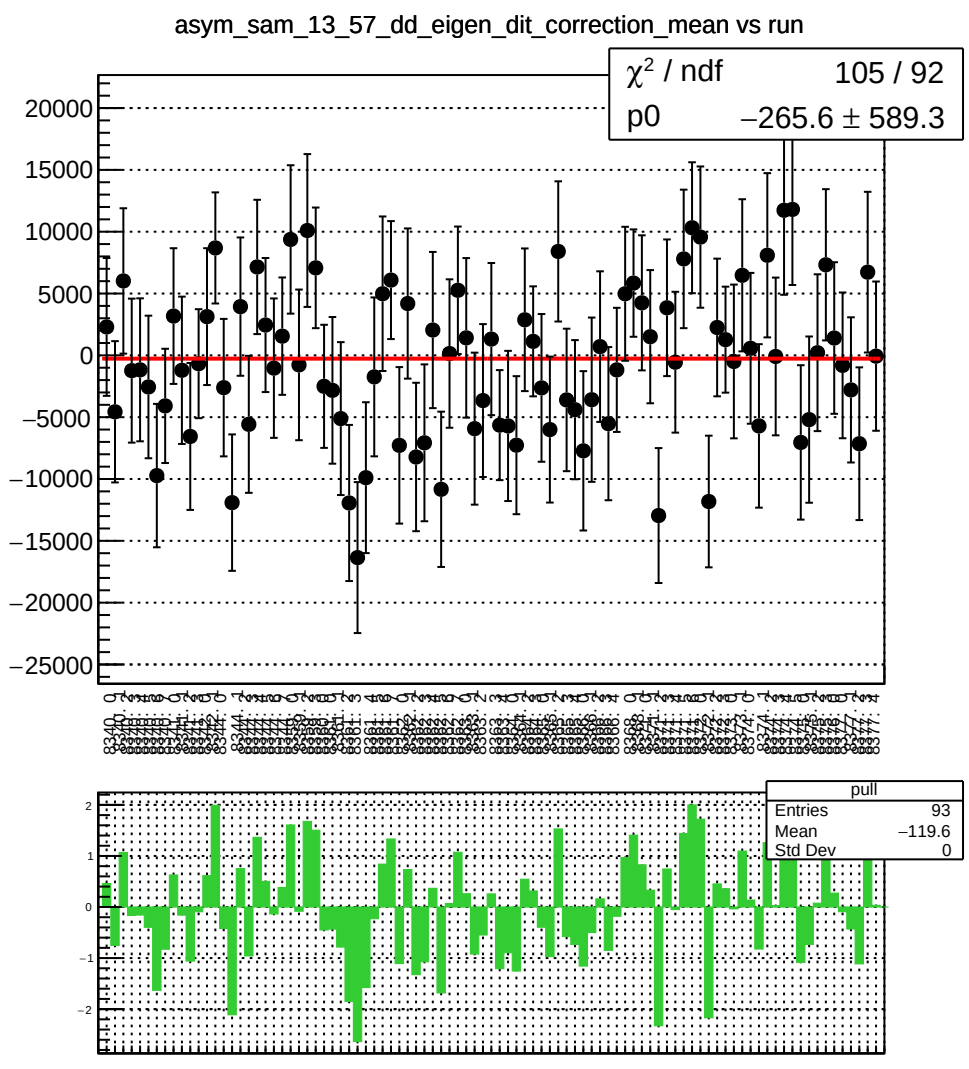

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 −265.6 ± 589.3
pull
Entries 93
Mean −119.6
Std Dev 0

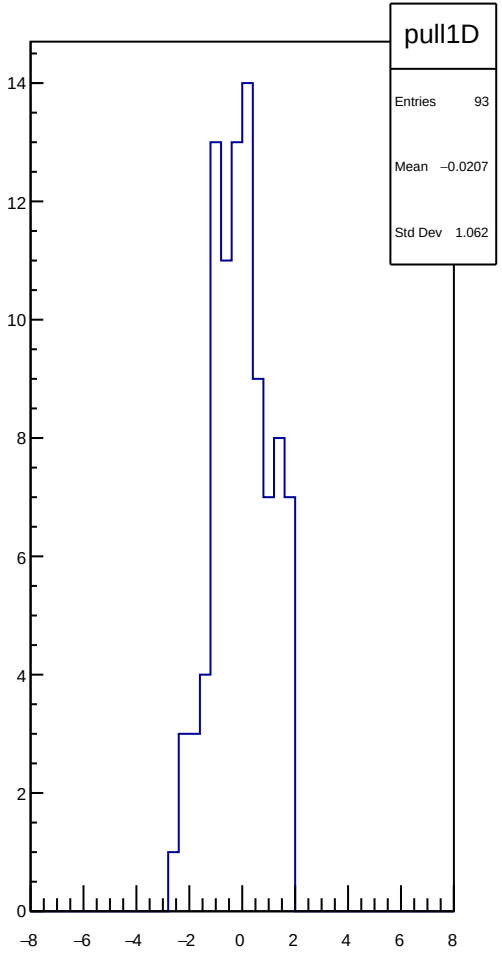

pull1D
Entries 93
Mean −0.0207
Std Dev 1.062

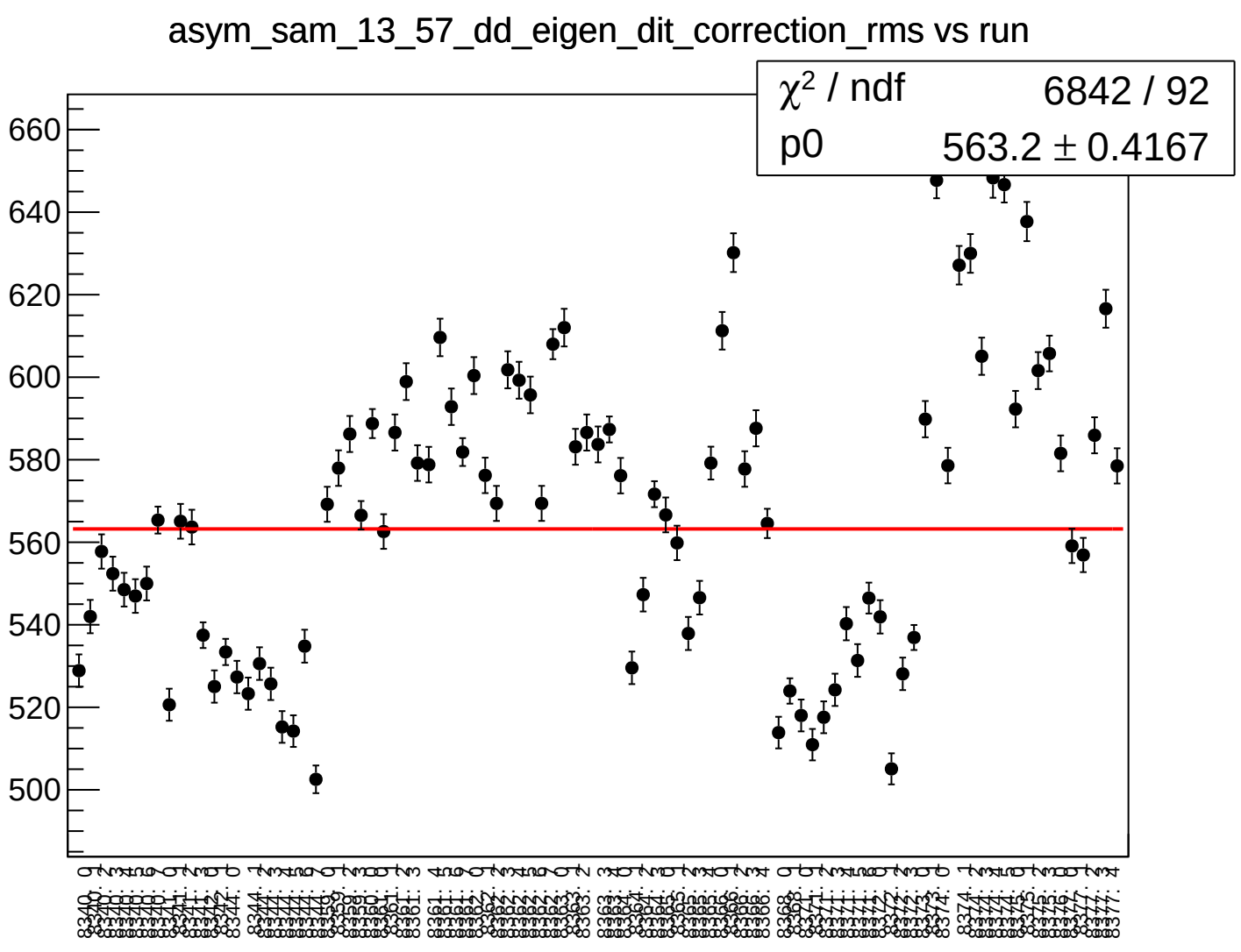

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6842 / 92
p0 563.2 ± 0.4167
660
640
620
600
580
560
540
520
500

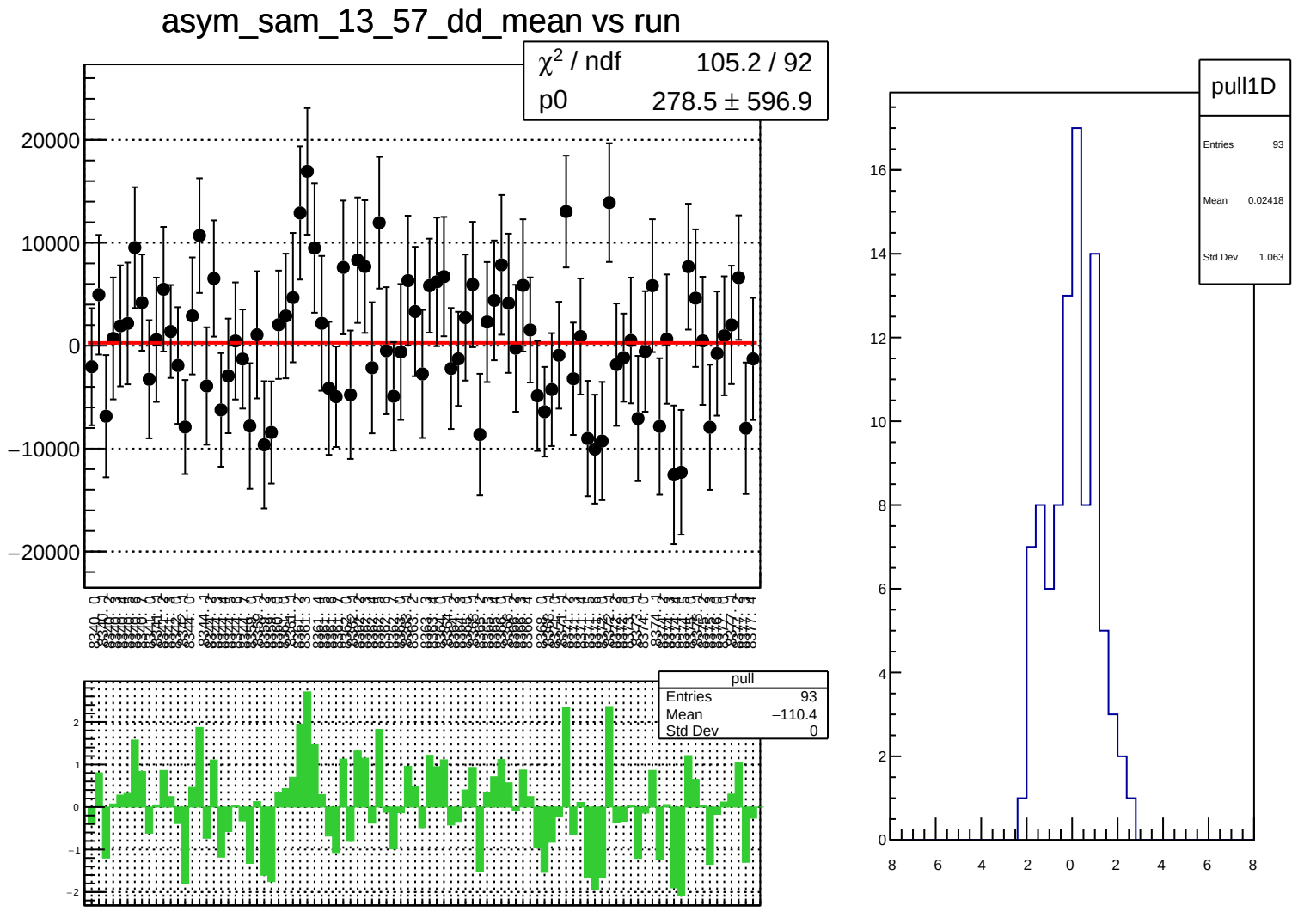

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 90.38 / 92
p0 63.43 ± 70.24
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 615.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005116
Std Dev 0.9858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

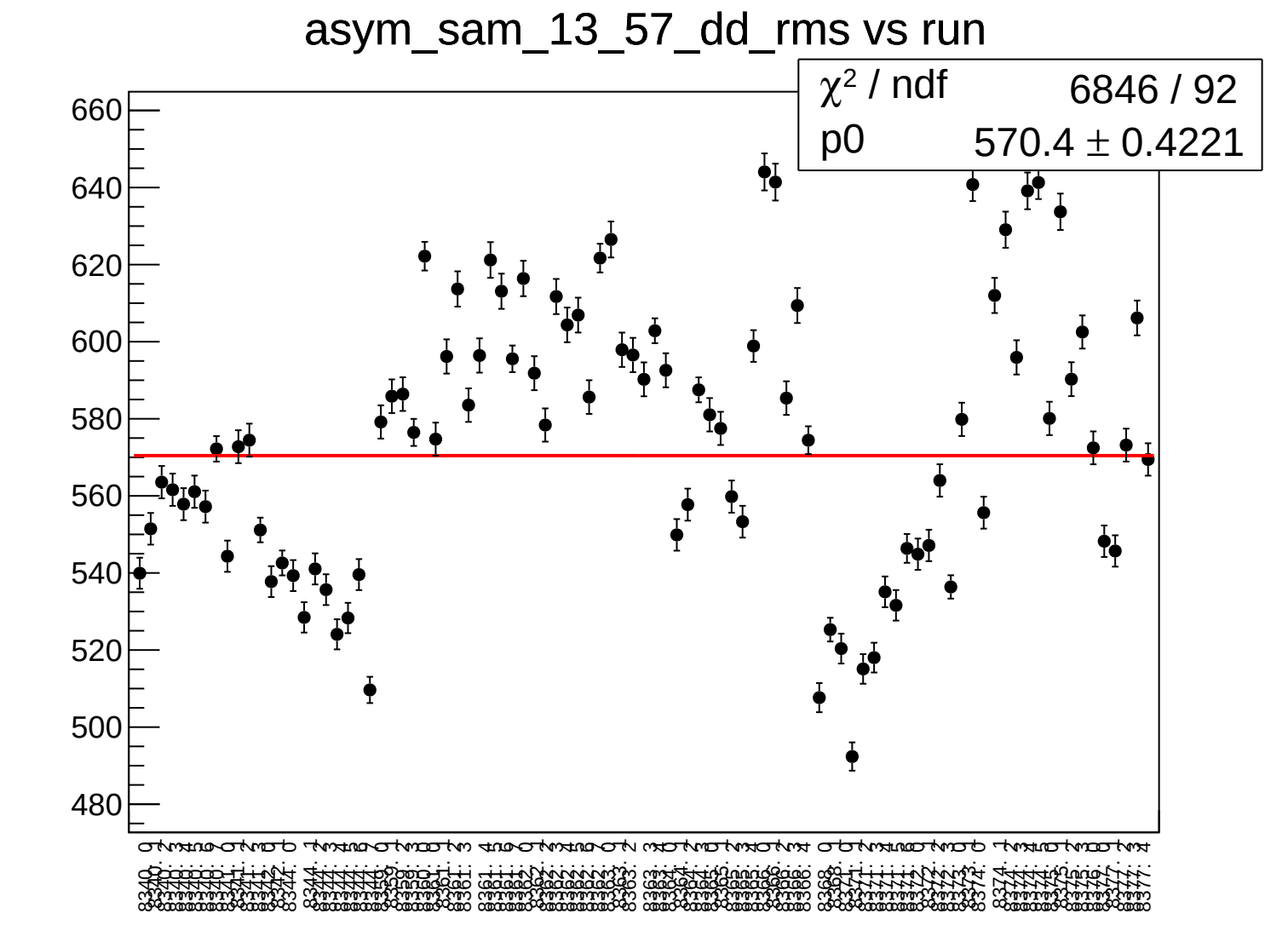

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.077e+04 / 92
p0 67.05 ± 0.04966
100
95
90
85
80
75
70
65
60
55

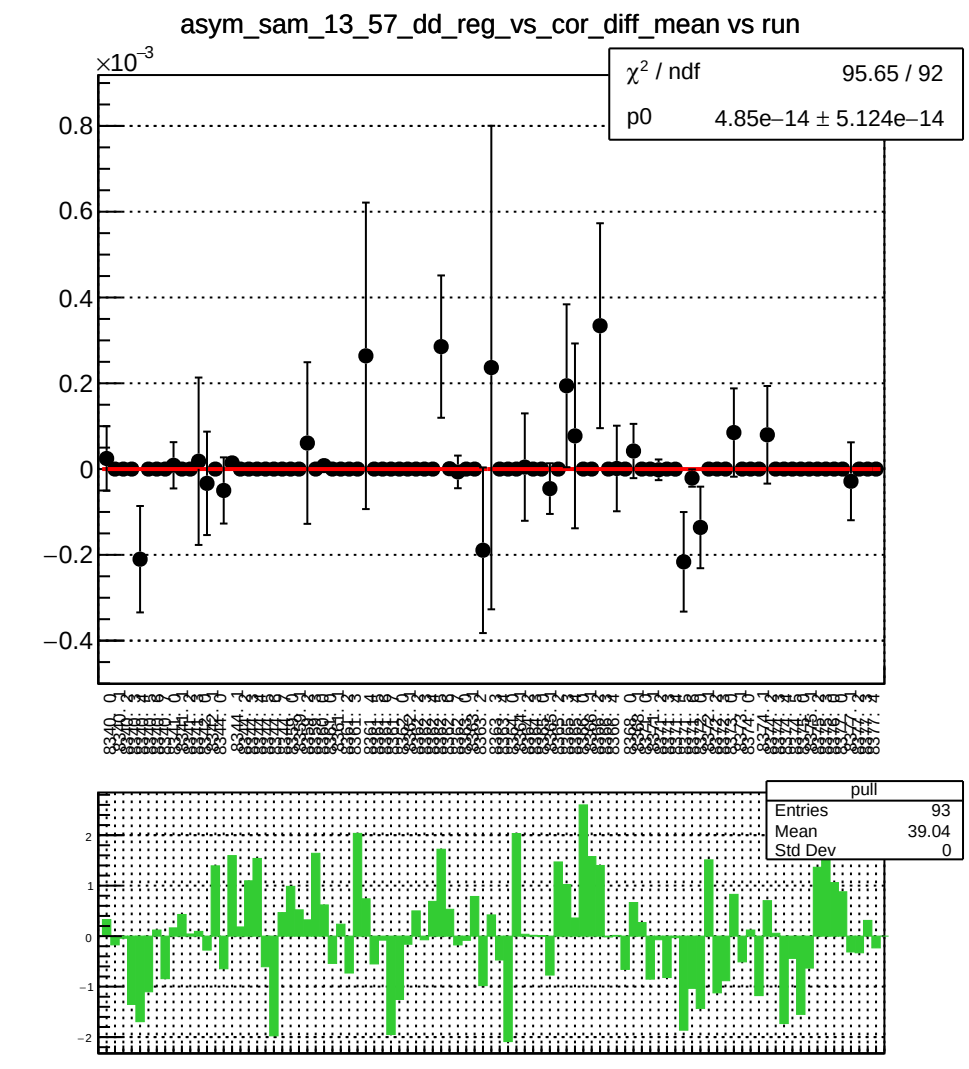

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 −265.6 ± 589.3
pull
Entries 93
Mean −119.6
Std Dev 0

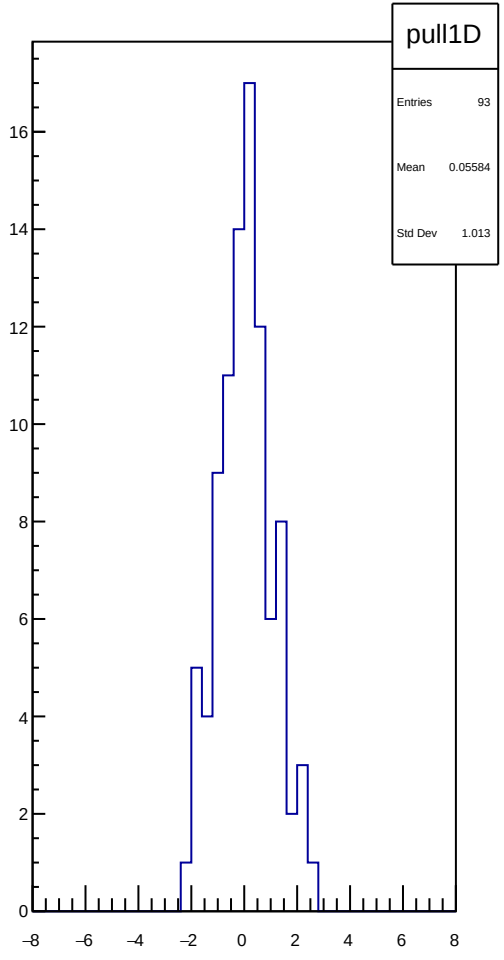

pull1D
Entries 93
Mean −0.0207
Std Dev 1.062

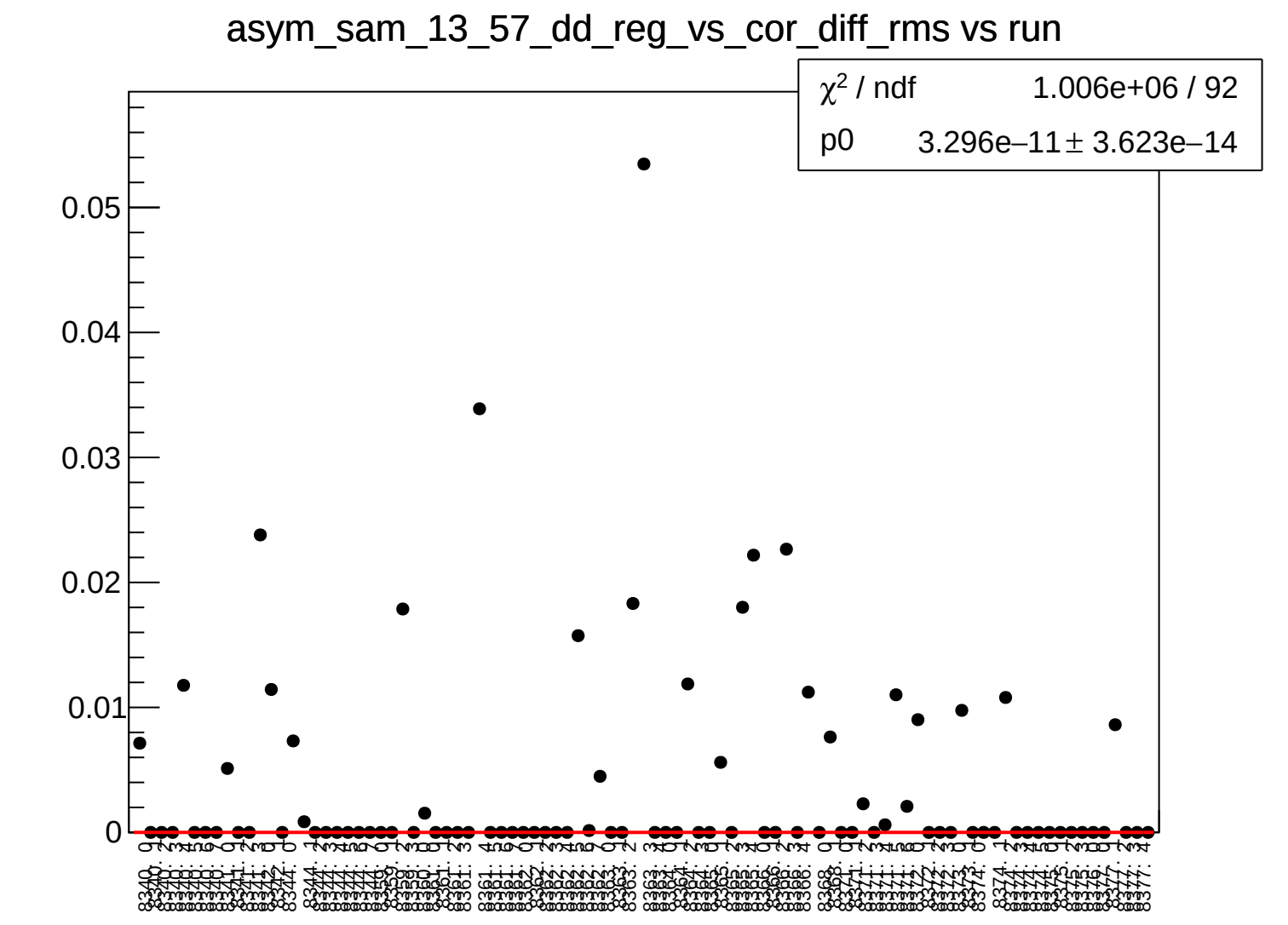

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 6842 / 92
p0 563.2 ± 0.4167
660
640
620
600
580
560
540
520
500

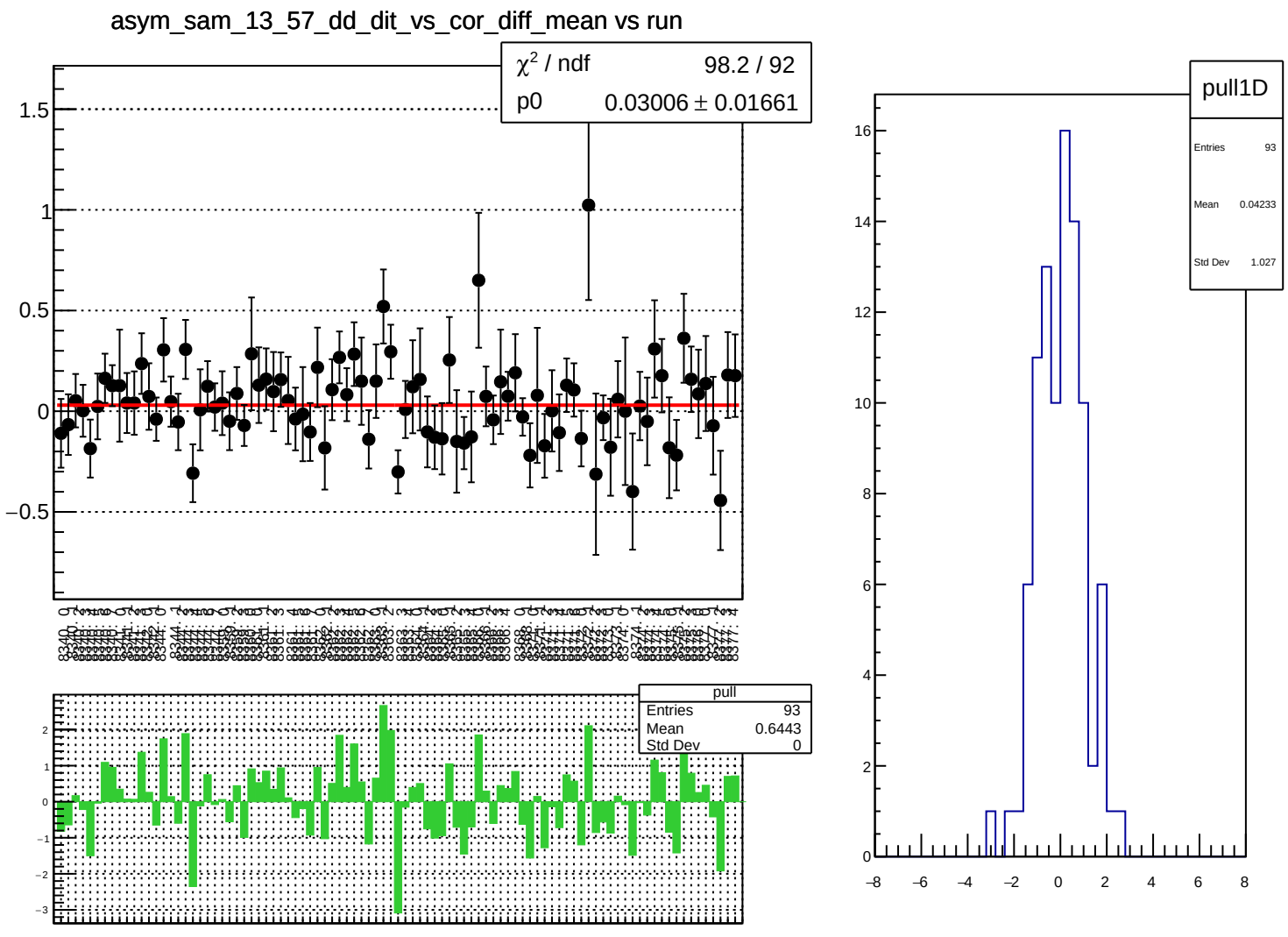

asym_sam_13_57_dd_mean vs run
χ² / ndf 105.2 / 92
p0 278.5 ± 596.9
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −110.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02418
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

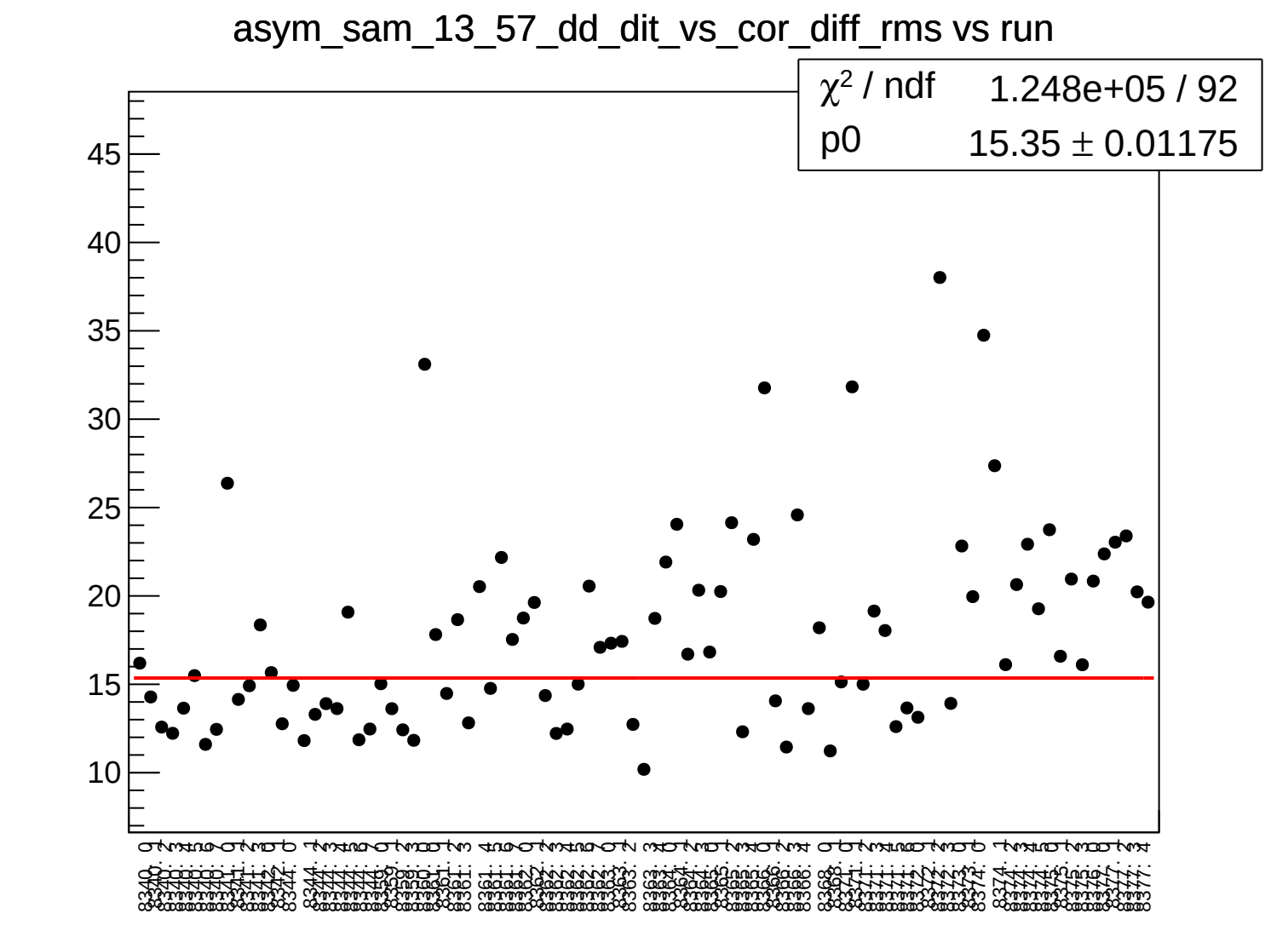

asym_sam_13_57_dd_rms vs run
χ² / ndf 6846 / 92
p0 570.4 ± 0.4221
660
640
620
600
580
560
540
520
500
480

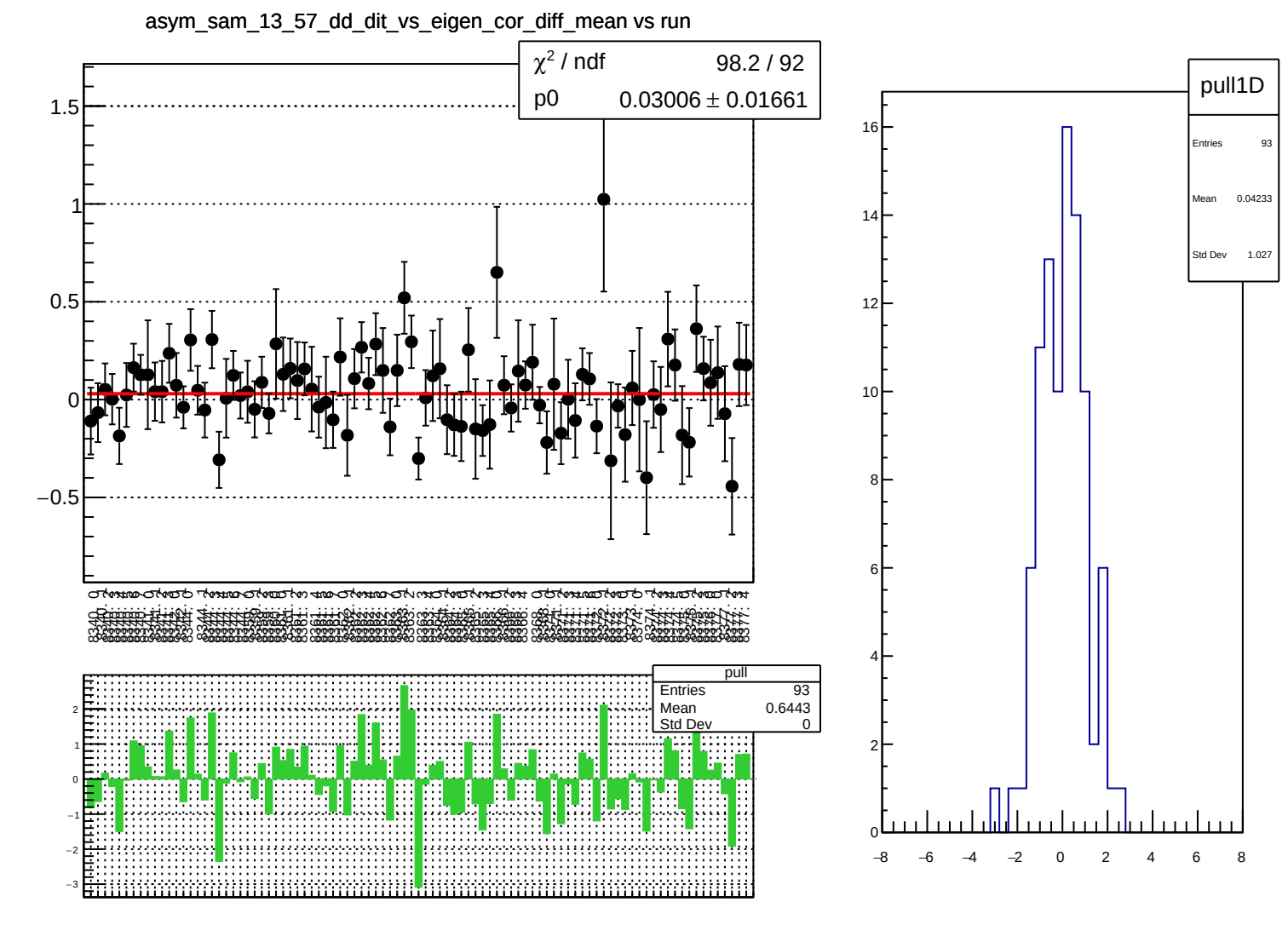

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.65 / 92
p0 4.85e−14 ± 5.124e−14
pull
Entries 93
Mean 39.04
Std Dev 0

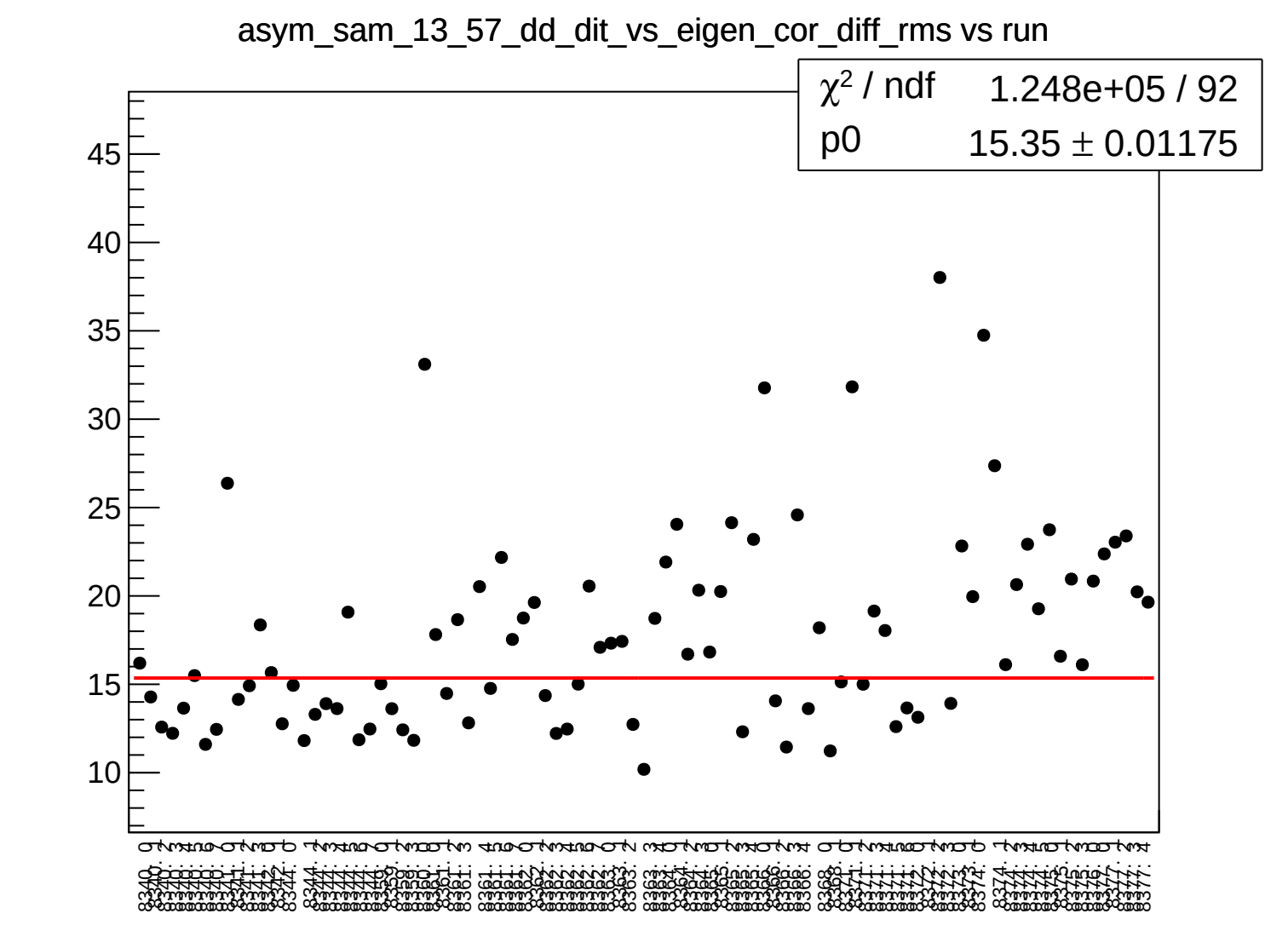

pull1D
Entries 93
Mean 0.05584
Std Dev 1.013

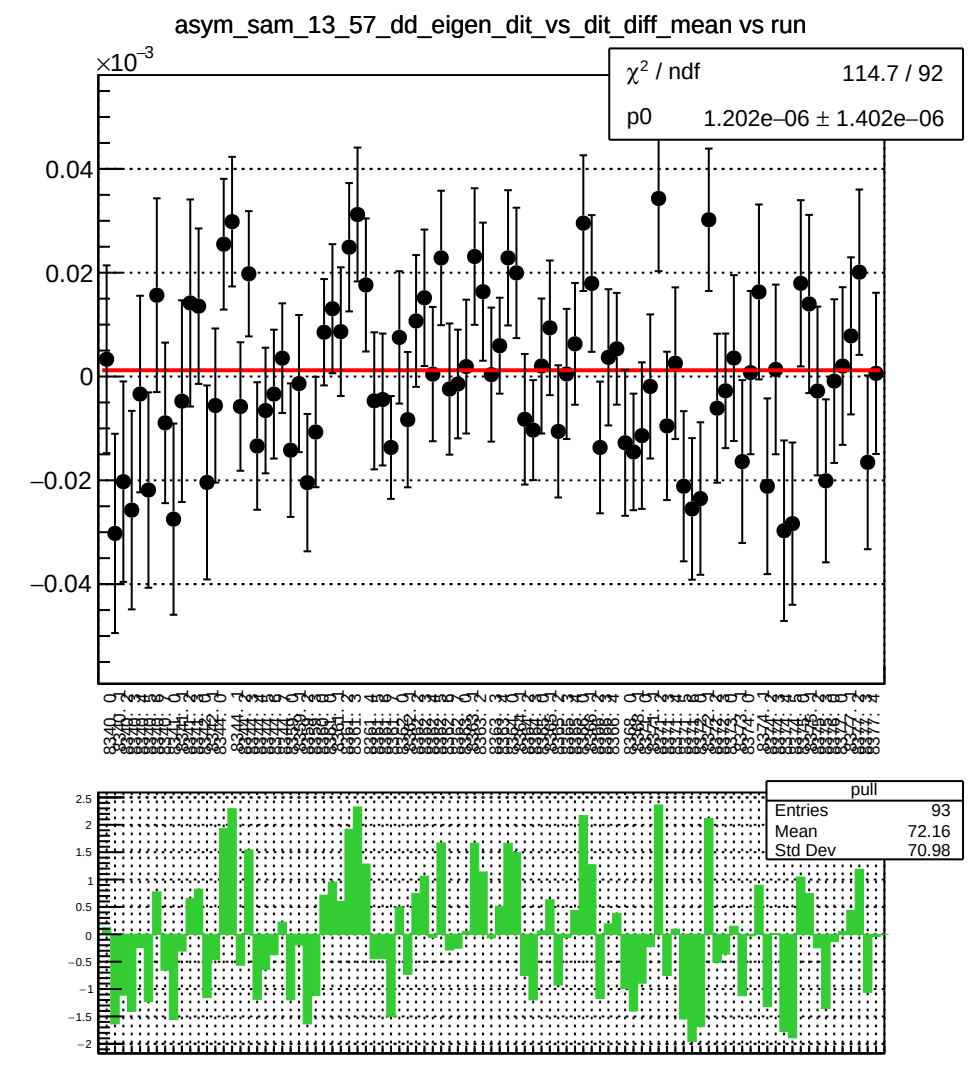

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 92
p0 3.296e−11 ± 3.623e−14
0.05
0.04
0.03
0.02
0.01
0

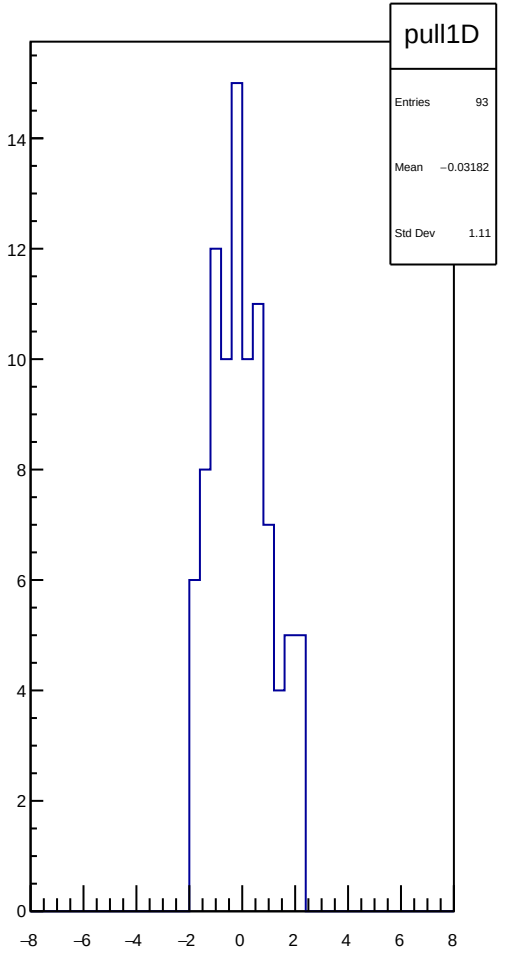

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.2 / 92
p0 0.03006 ± 0.01661
pull
Entries 93
Mean 0.6443
Std Dev 0
pull1D
Entries 93
Mean 0.04233
Std Dev 1.027

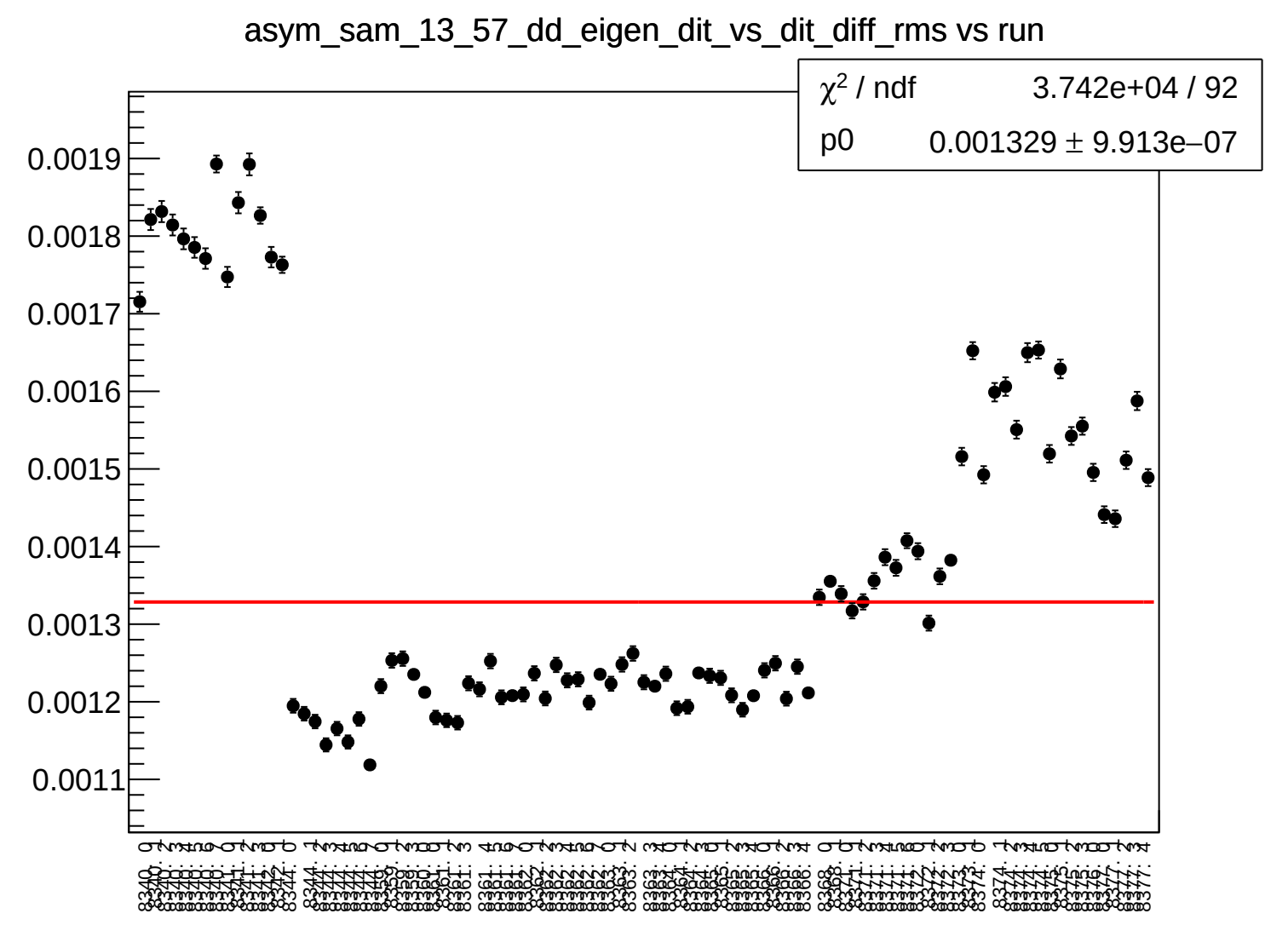

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 92
p0 15.35 ± 0.01175
45
40
35
30
25
20
15
10

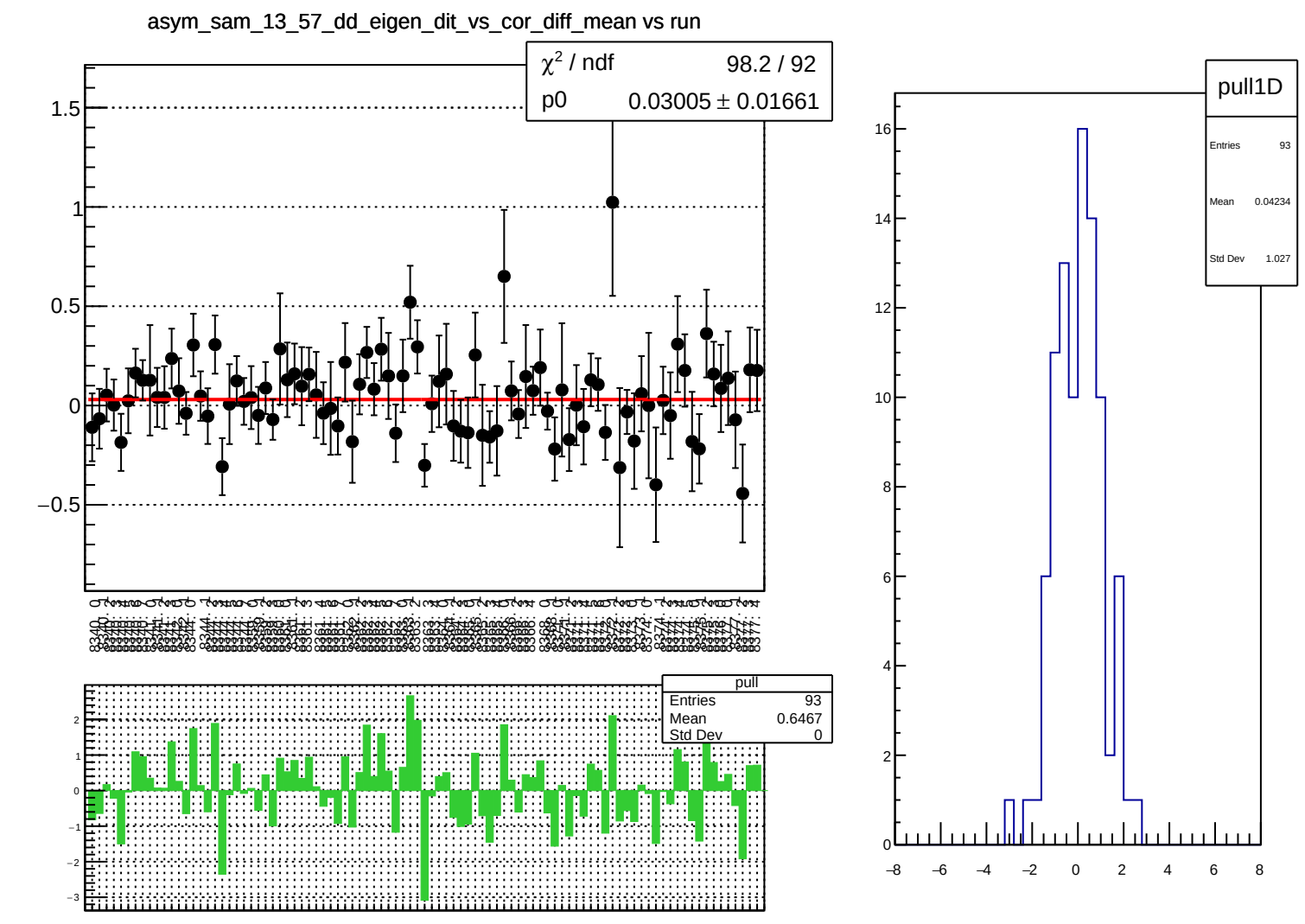

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.2 / 92
p0 0.03006 ± 0.01661
pull
Entries 93
Mean 0.6443
Std Dev 0
pull1D
Entries 93
Mean 0.04233
Std Dev 1.027

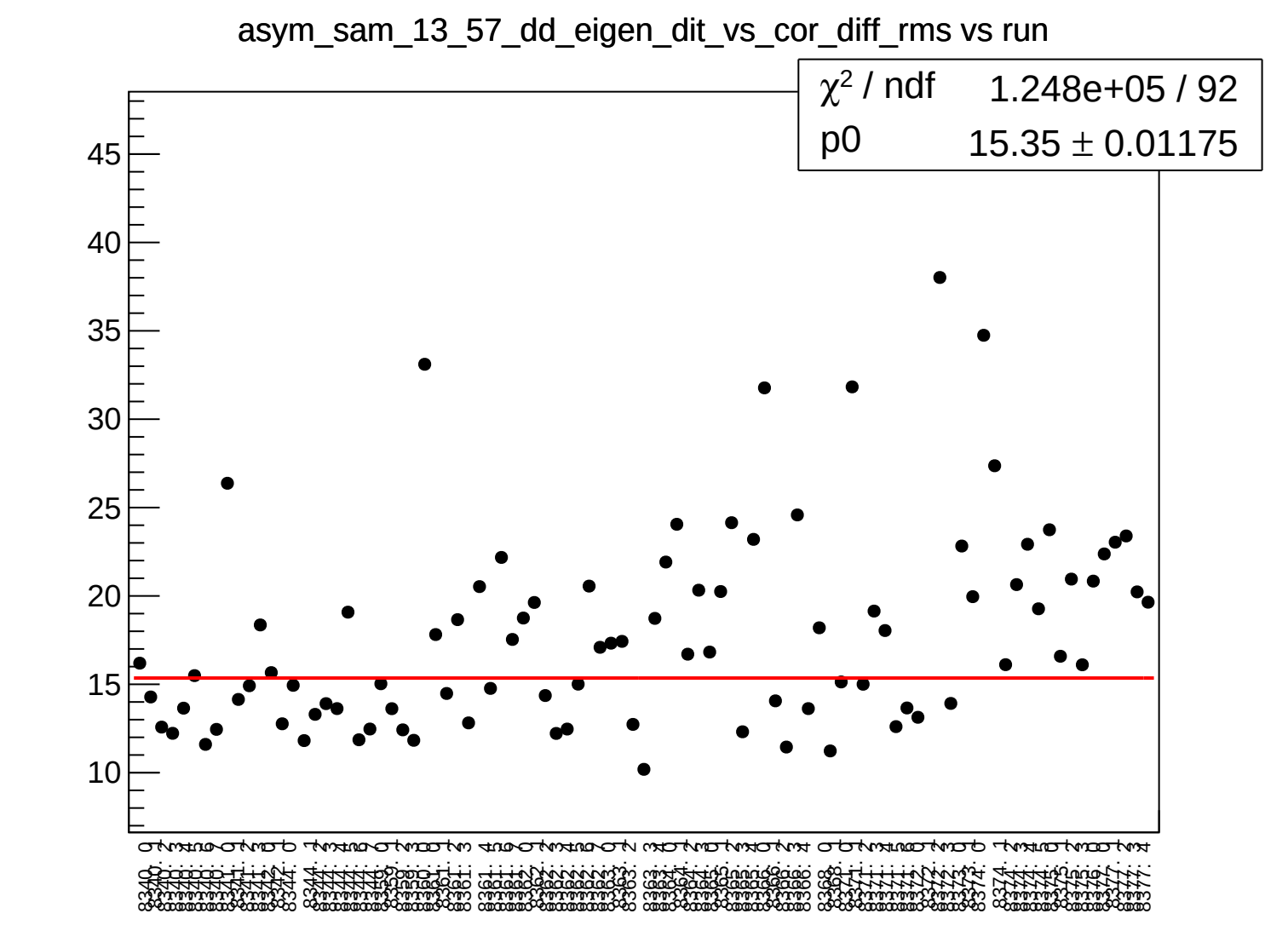

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 92
p0 15.35 ± 0.01175
45
40
35
30
25
20
15
10

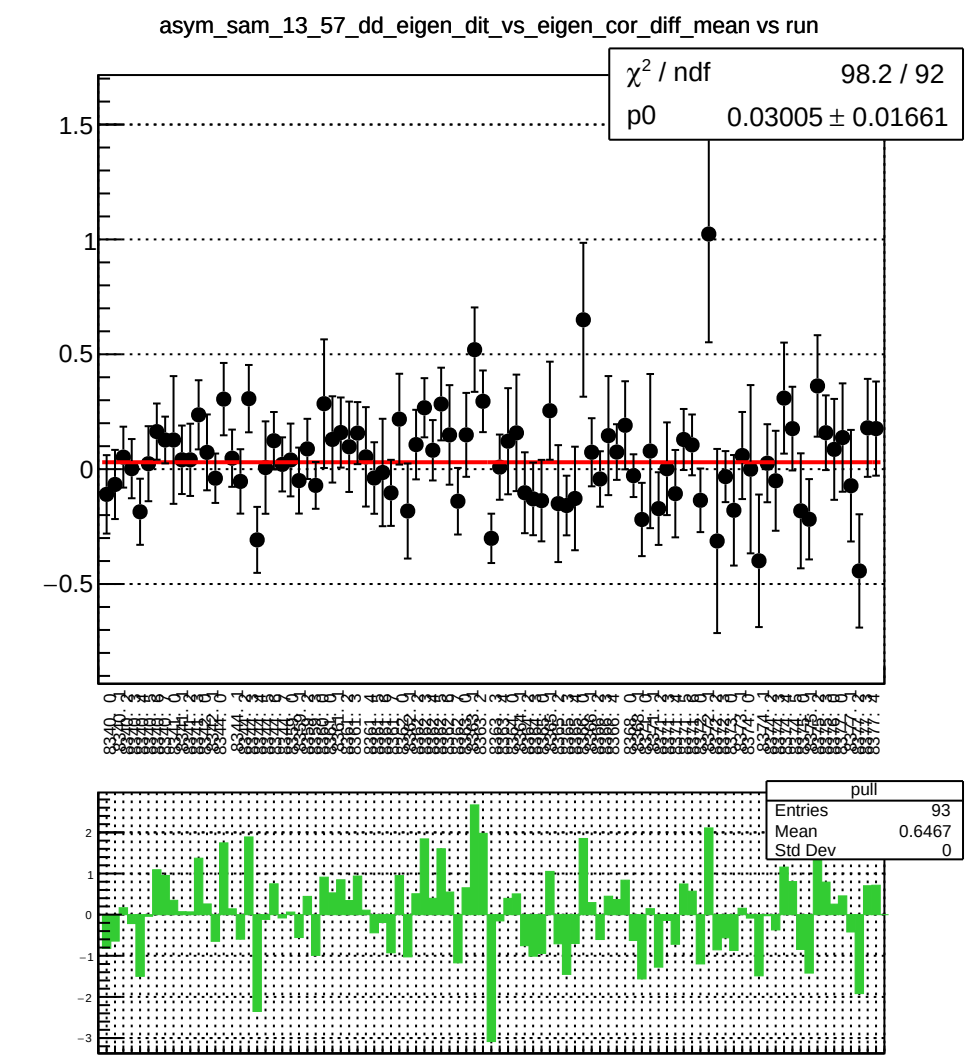

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.7 / 92
p0 1.202e−06 ± 1.402e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 72.16
Std Dev 70.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

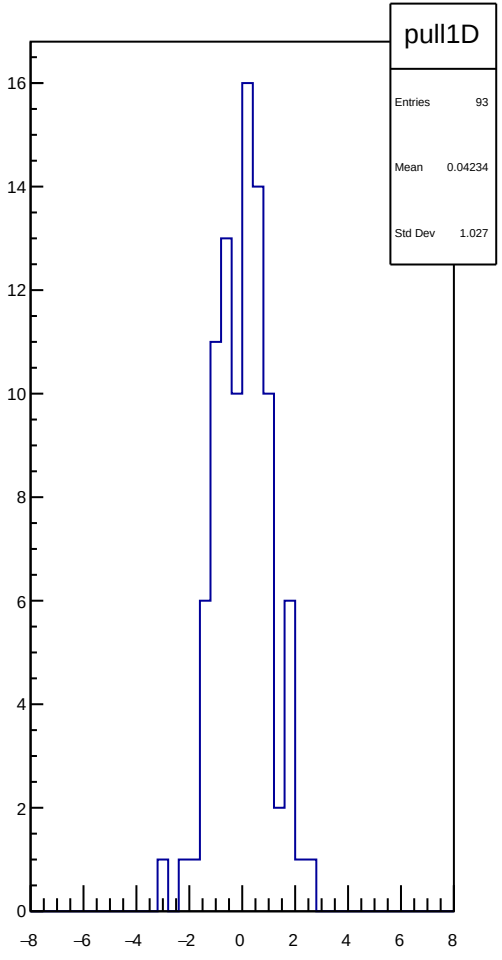

pull1D
Entries 93
Mean −0.03182
Std Dev 1.11
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

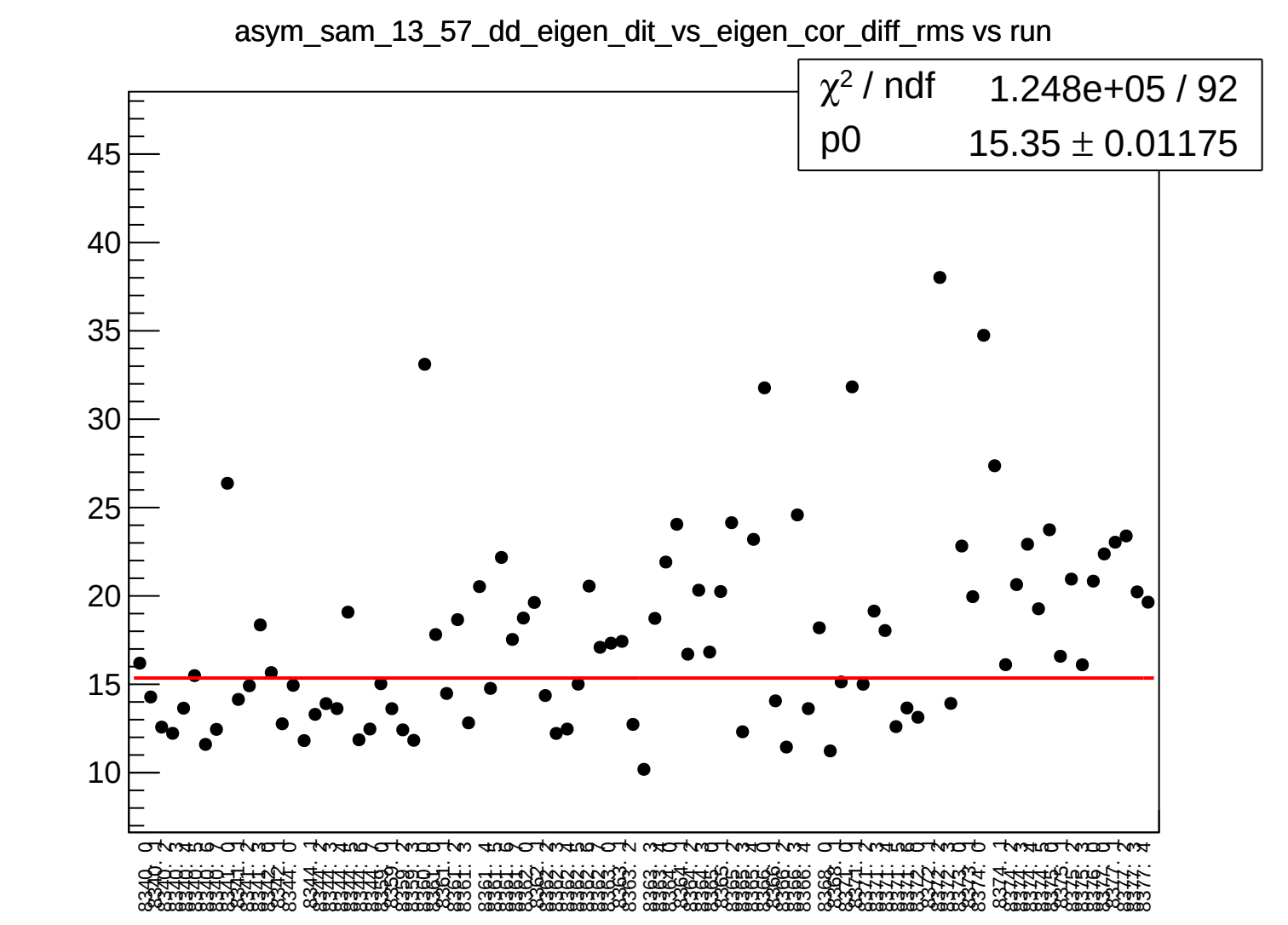

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.742e+04 / 92
p0 0.001329 ± 9.913e−07
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

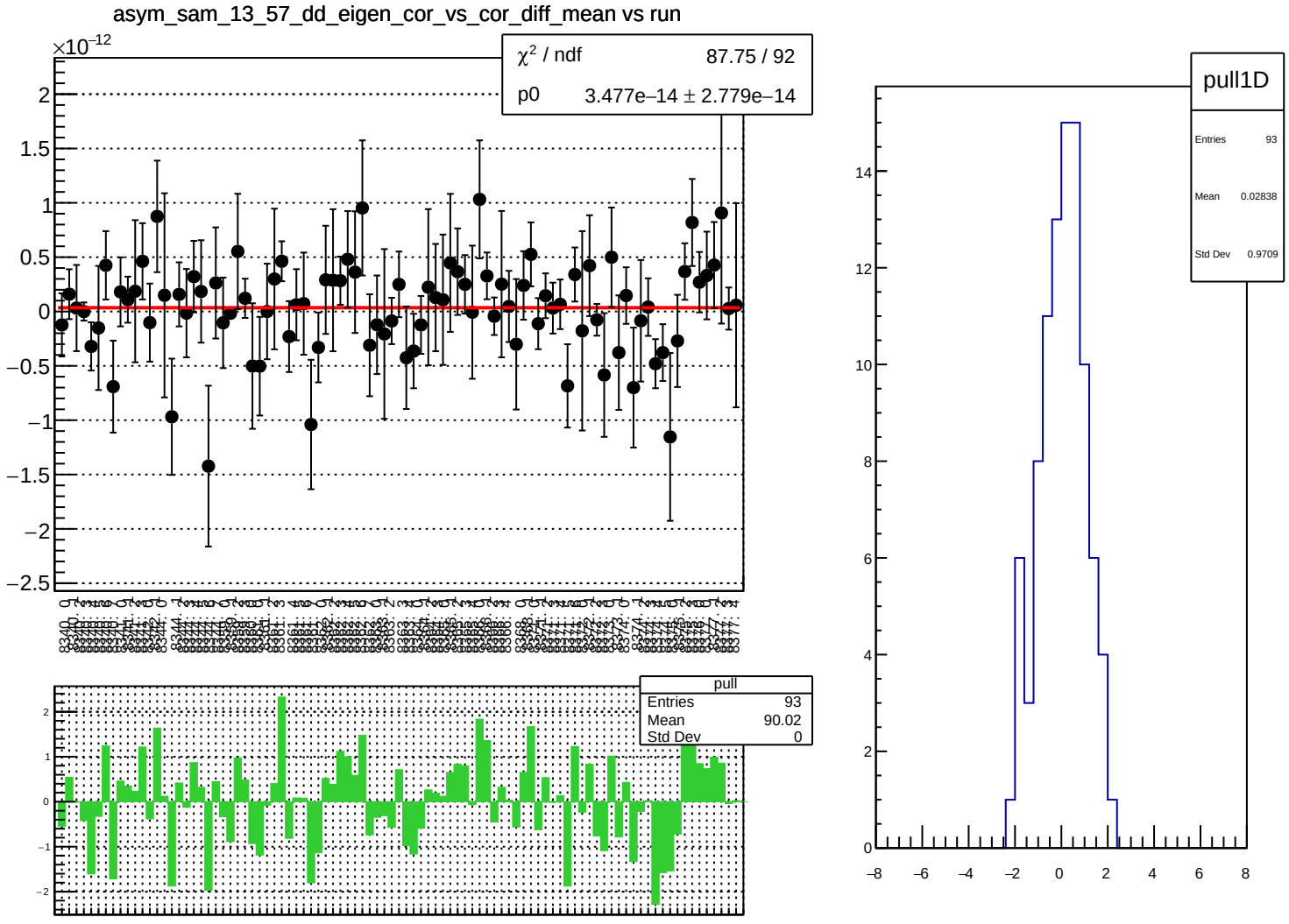

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.2 / 92
p0 0.03005 ± 0.01661
pull
Entries 93
Mean 0.6467
Std Dev 0
pull1D
Entries 93
Mean 0.04234
Std Dev 1.027

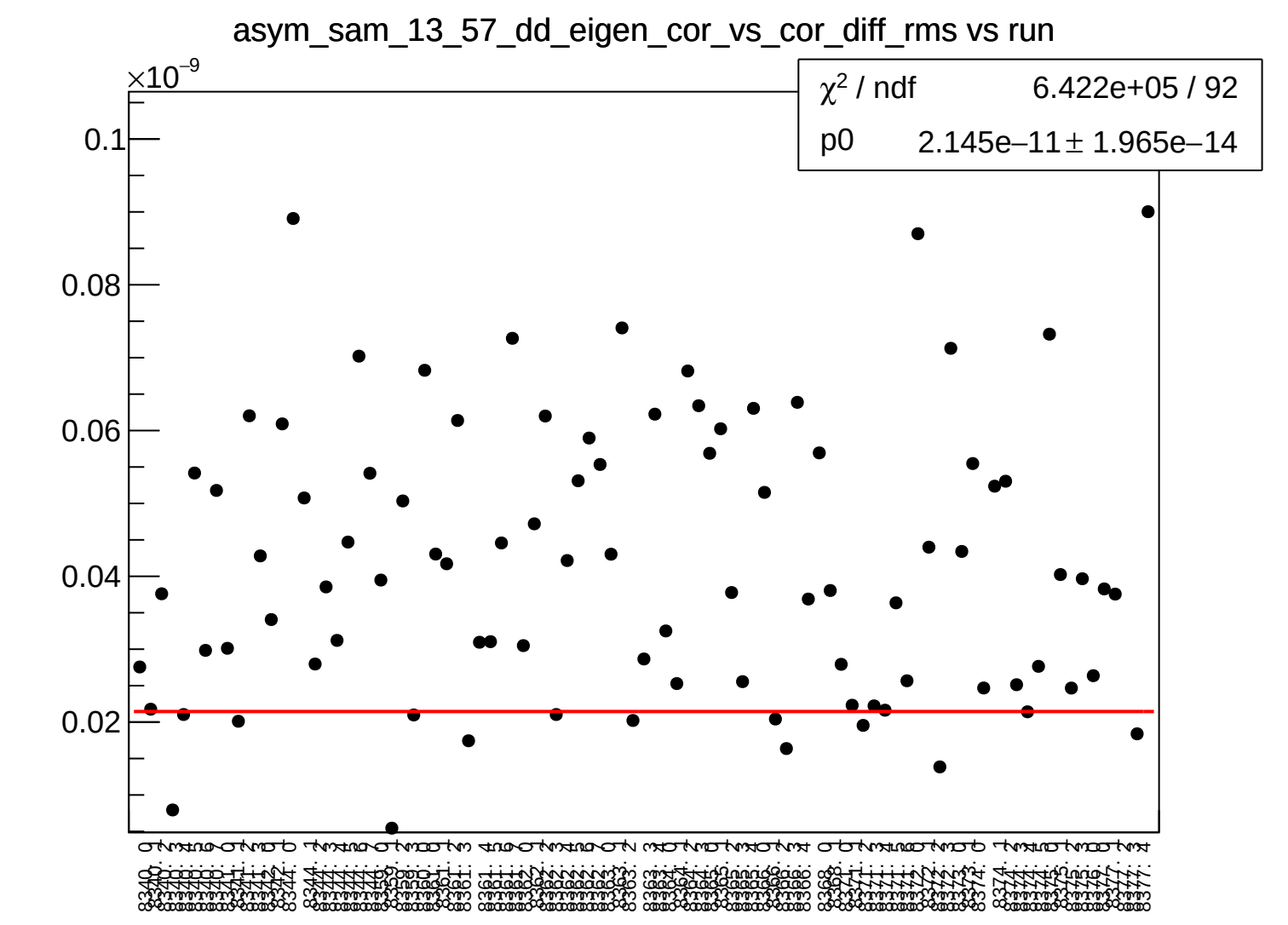

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 92
p0 15.35 ± 0.01175
45
40
35
30
25
20
15
10

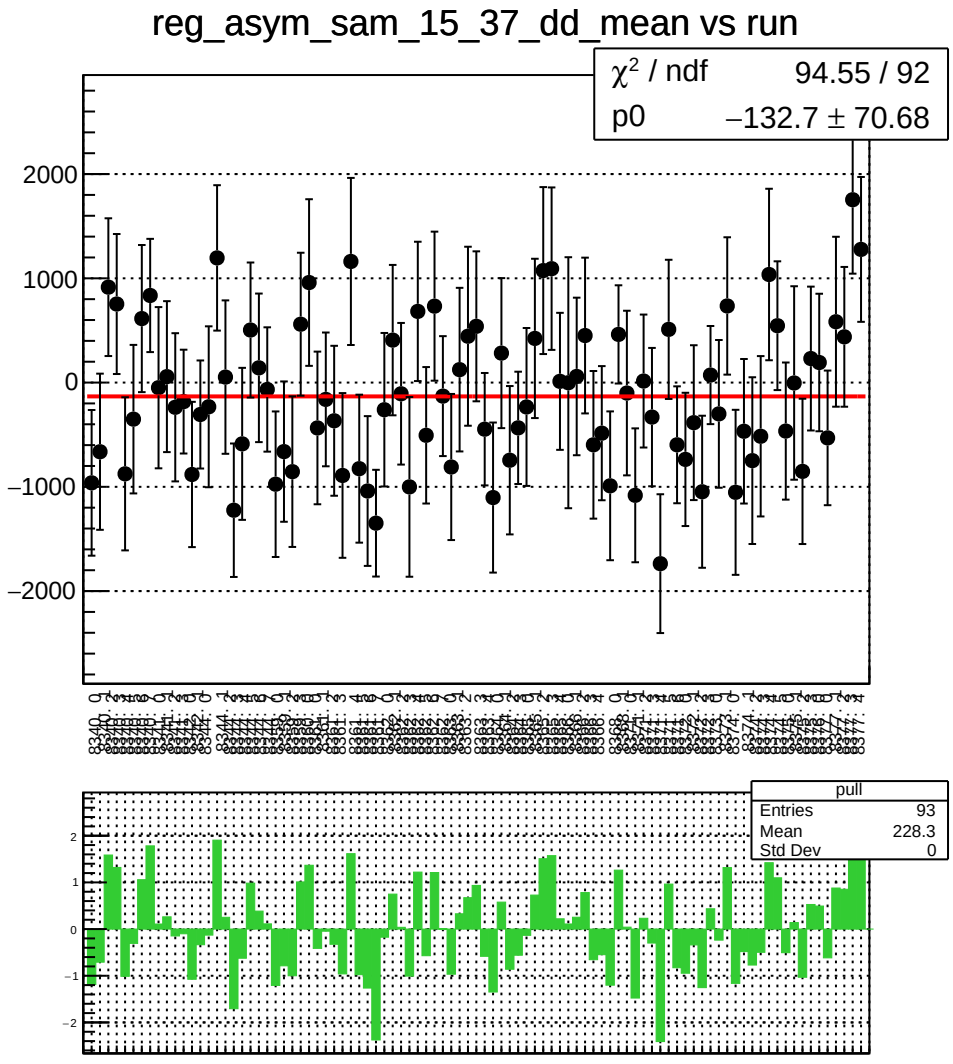

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.2 / 92
p0 0.03005 ± 0.01661
1.5
1
0.5
0
−0.5
pull
Entries 93
Mean 0.6467
Std Dev 0
2
1
0
−1
−2
−3

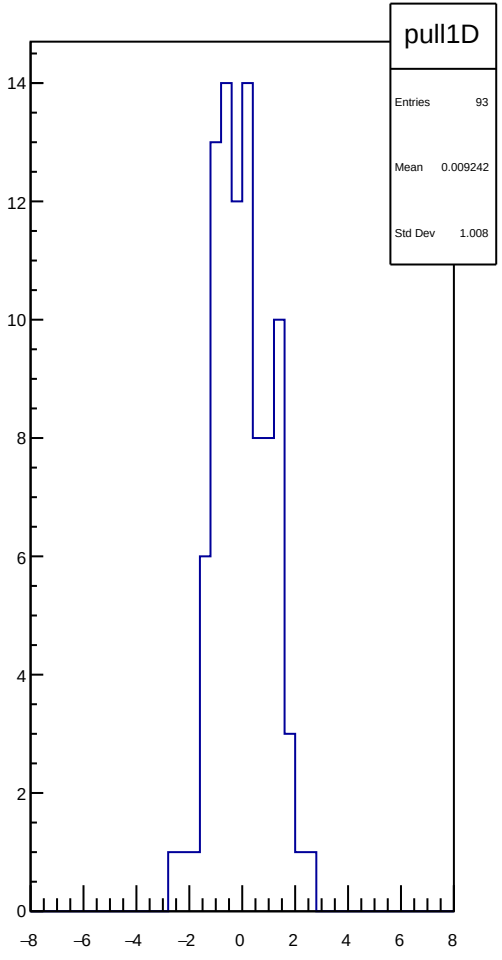

pull1D
Entries 93
Mean 0.04234
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

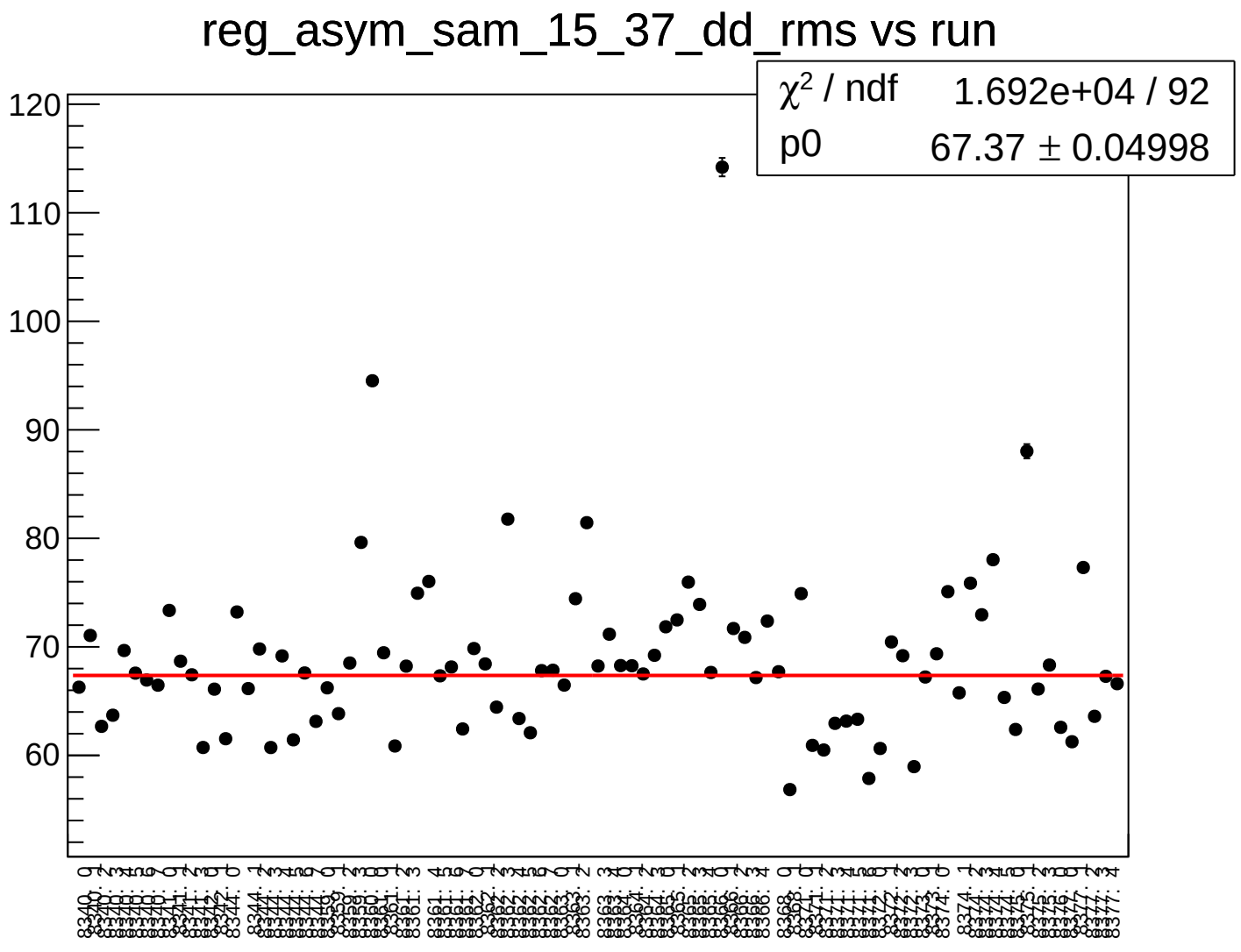

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 92
p0 15.35 ± 0.01175
45
40
35
30
25
20
15
10

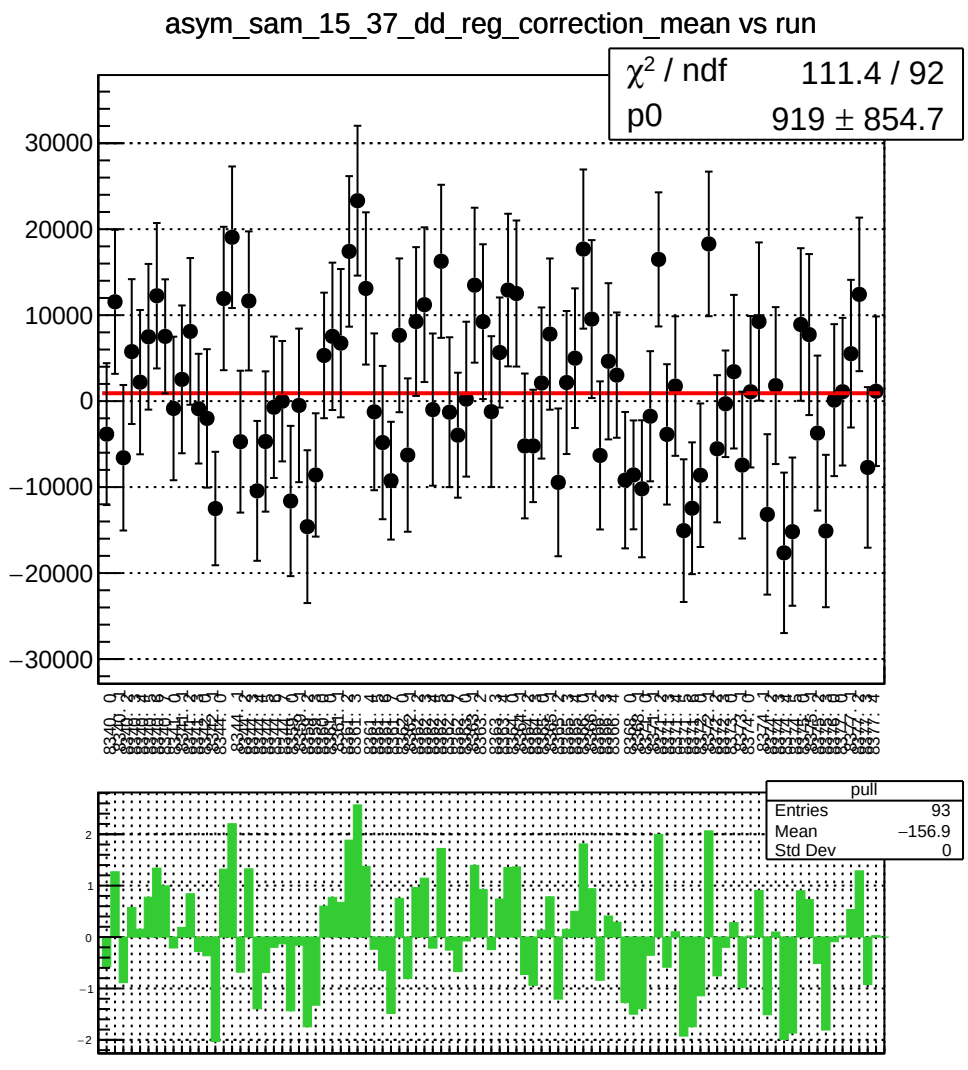

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.75 / 92
p0 3.477e−14 ± 2.779e−14
pull
Entries 93
Mean 90.02
Std Dev 0
pull1D
Entries 93
Mean 0.02838
Std Dev 0.9709

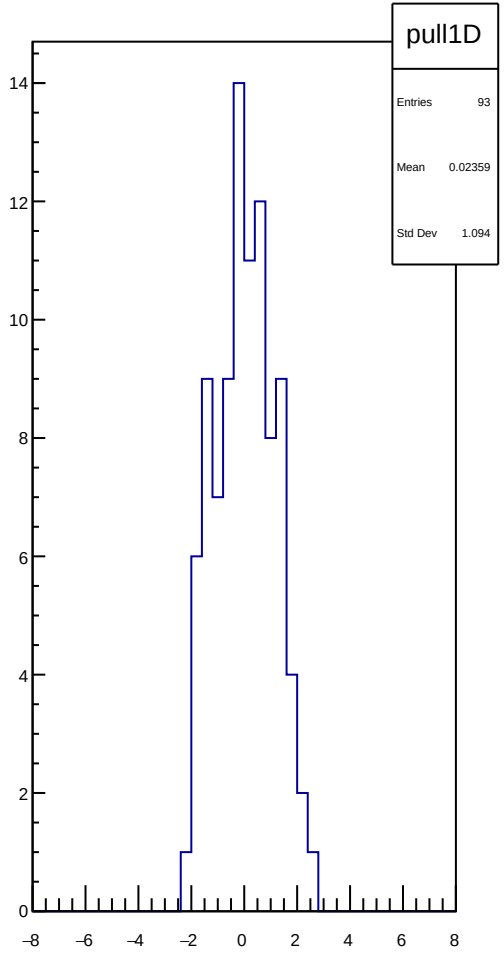

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.422e+05 / 92
p0 2.145e−11 ± 1.965e−14
0.1
0.08
0.06
0.04
0.02

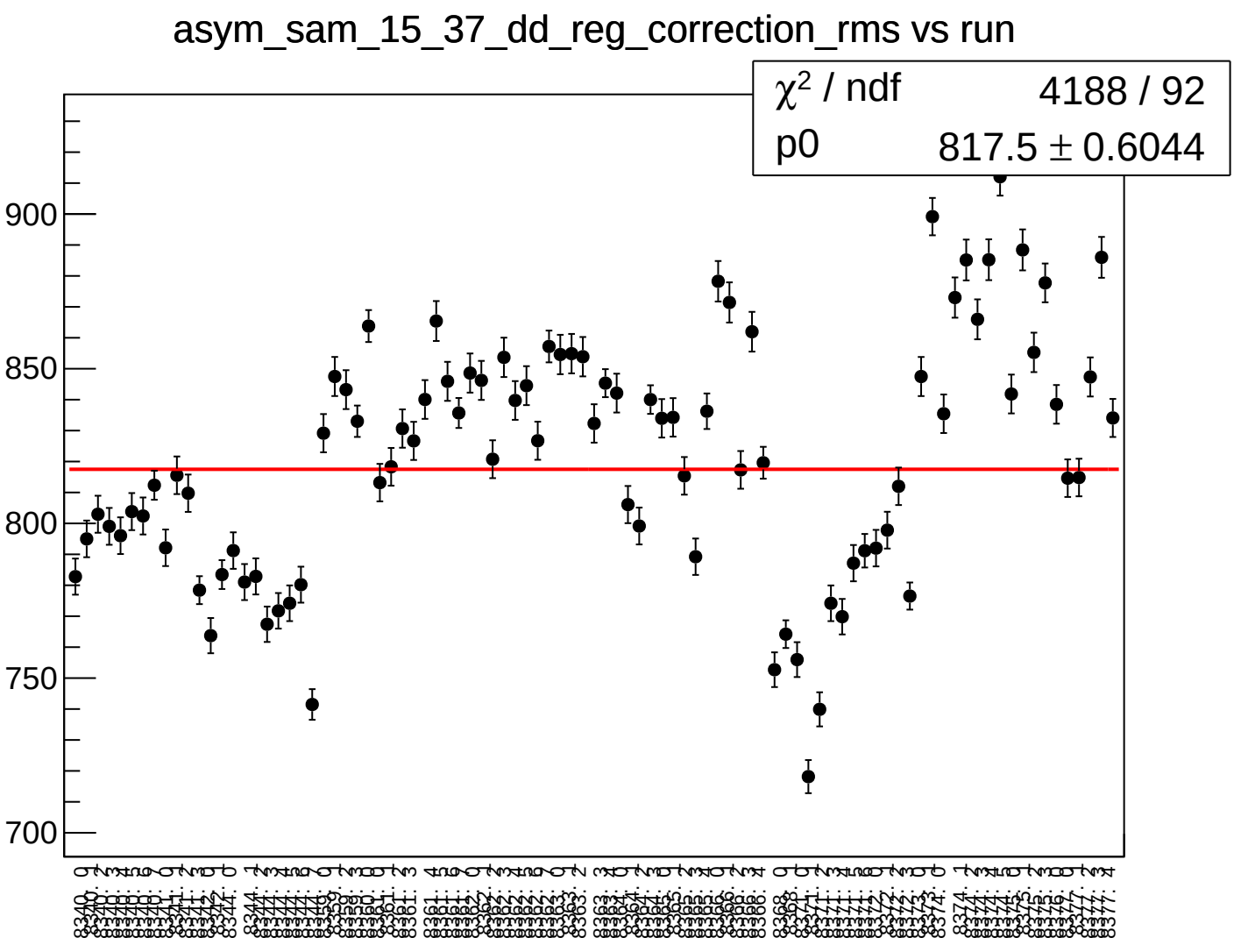

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.55 / 92
p0 −132.7 ± 70.68
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 228.3
Std Dev 0
2
1
0
−1
−2

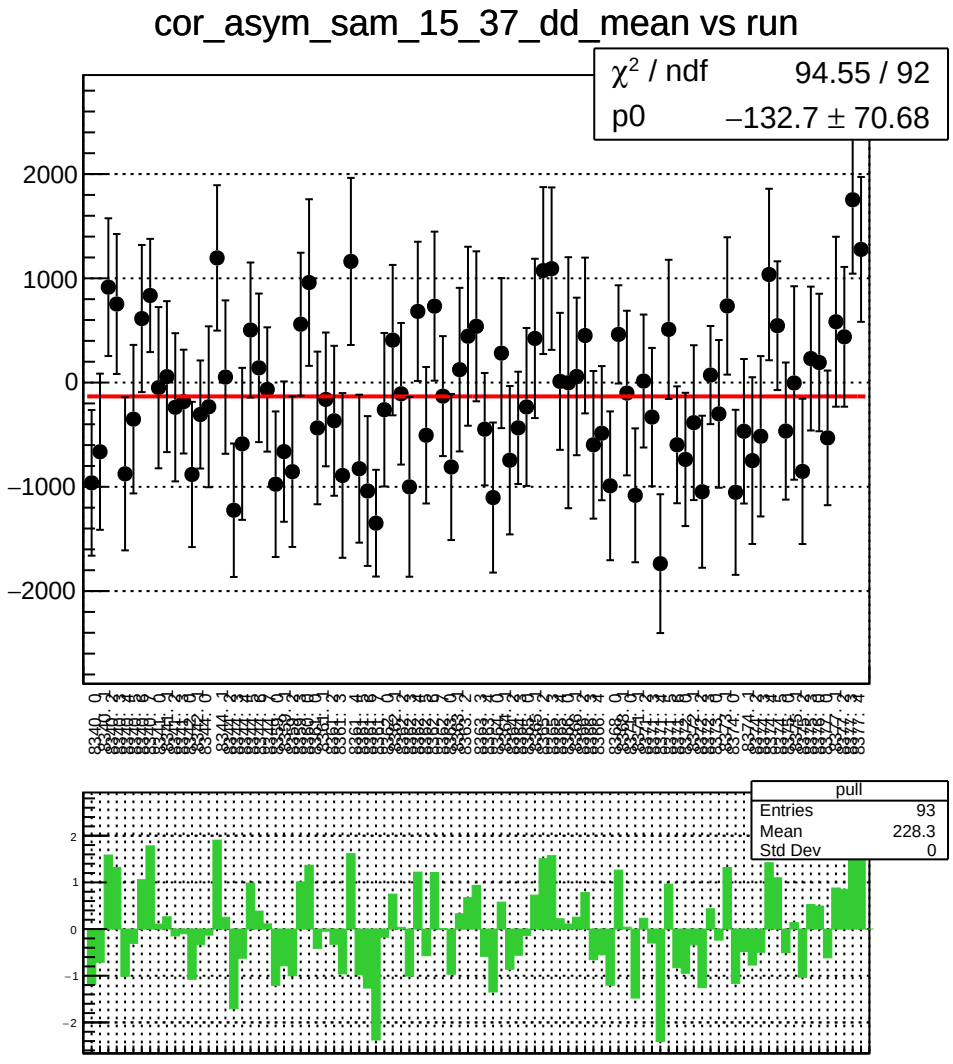

pull1D
Entries 93
Mean 0.009242
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

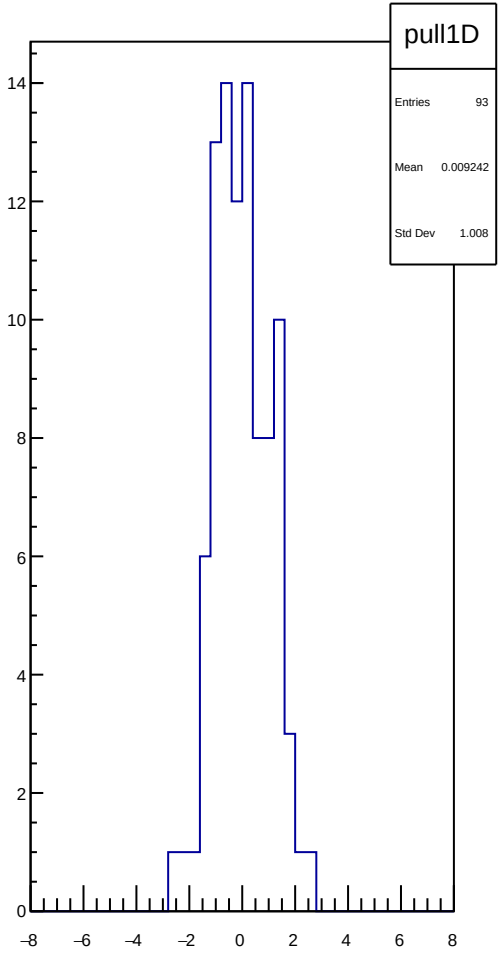

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.692e+04 / 92
p0 67.37 ± 0.04998
120
110
100
90
80
70
60

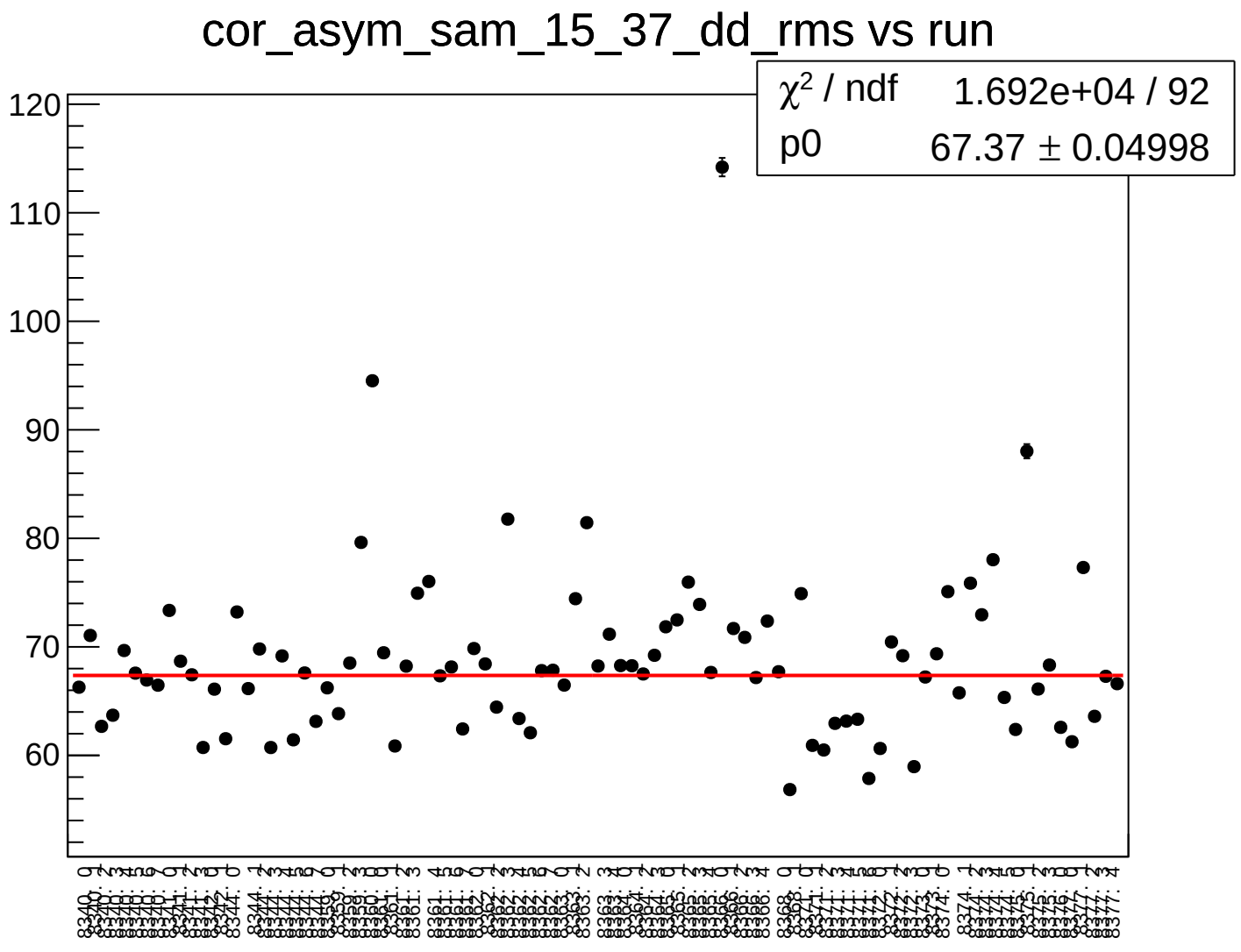

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 111.4 / 92
p0 919 ± 854.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −156.9
Std Dev 0
2
1
0
−1
−2

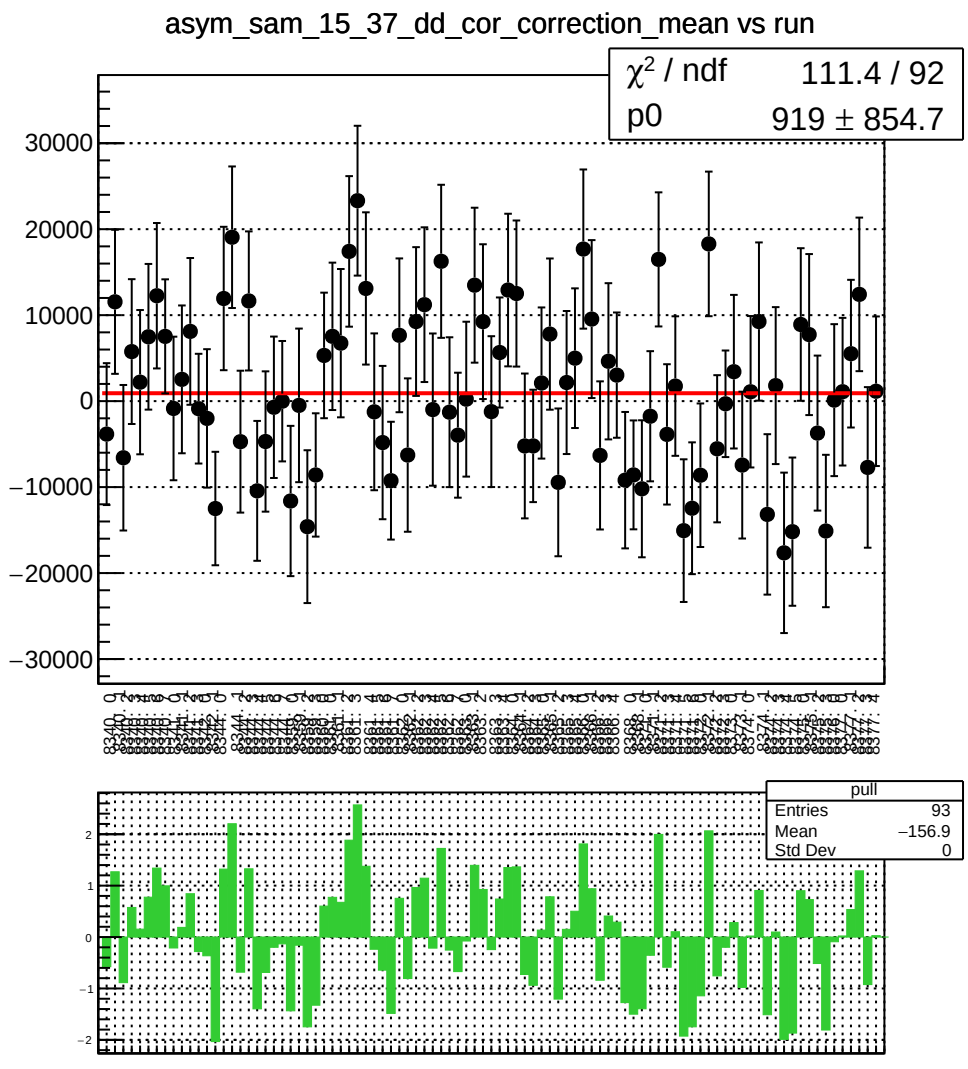

pull1D
Entries 93
Mean 0.02359
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

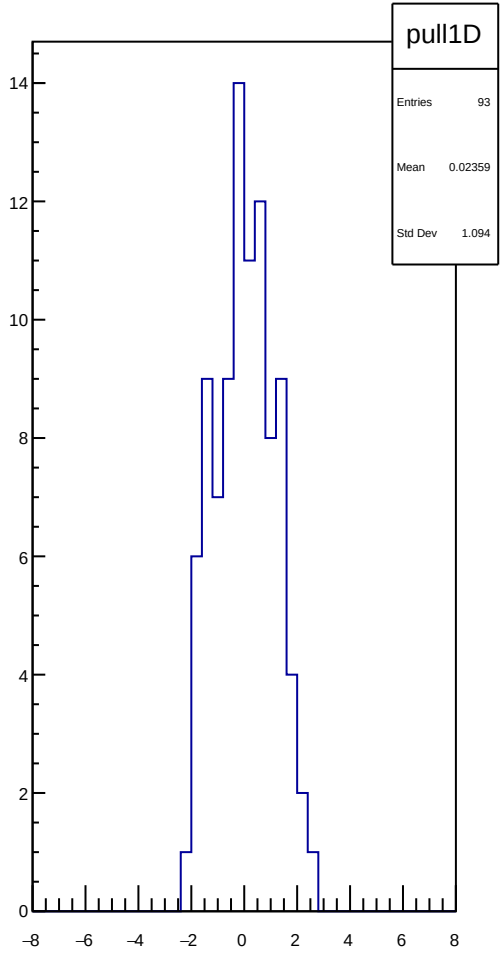

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 4188 / 92
p0 817.5 ± 0.6044
900
850
800
750
700

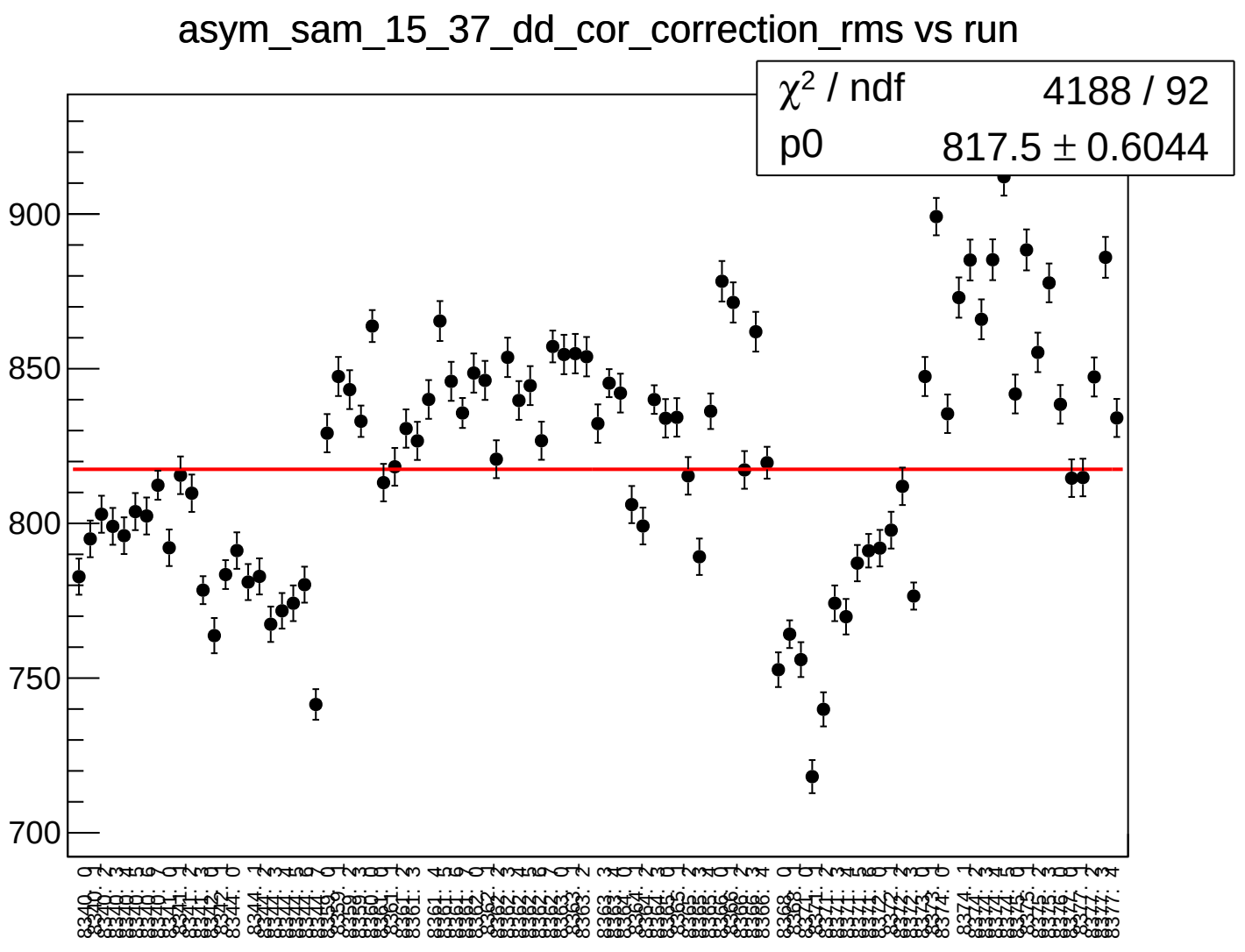

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.55 / 92
p0 −132.7 ± 70.68
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 228.3
Std Dev 0
2
1
0
−1
−2

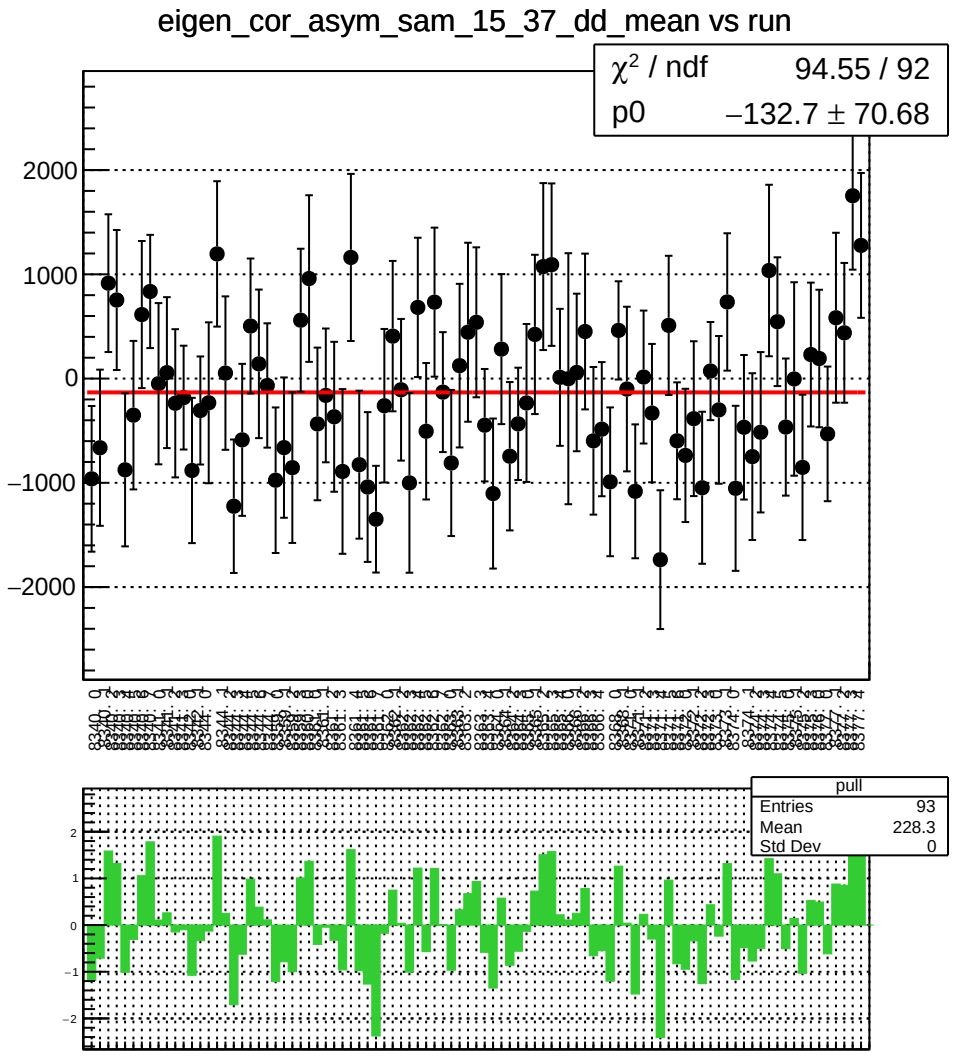

pull1D
Entries 93
Mean 0.009242
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

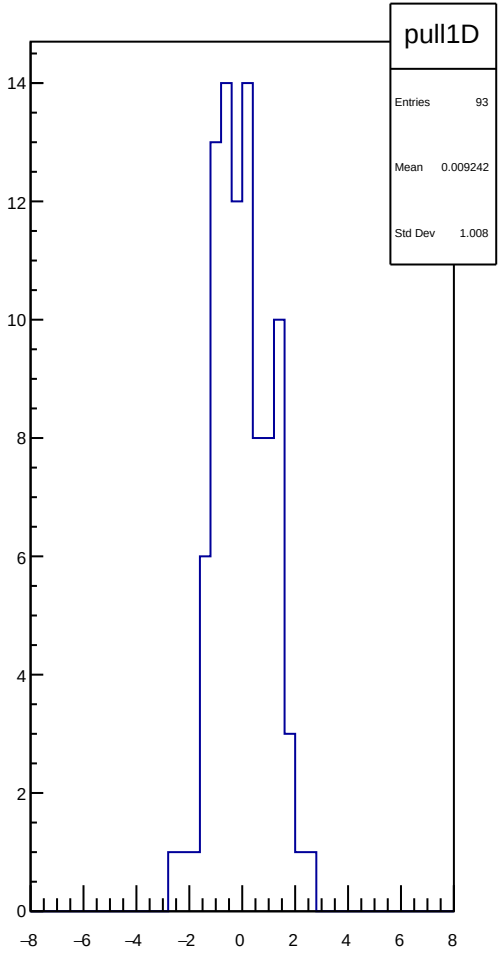

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.692e+04 / 92
p0 67.37 ± 0.04998
120
110
100
90
80
70
60

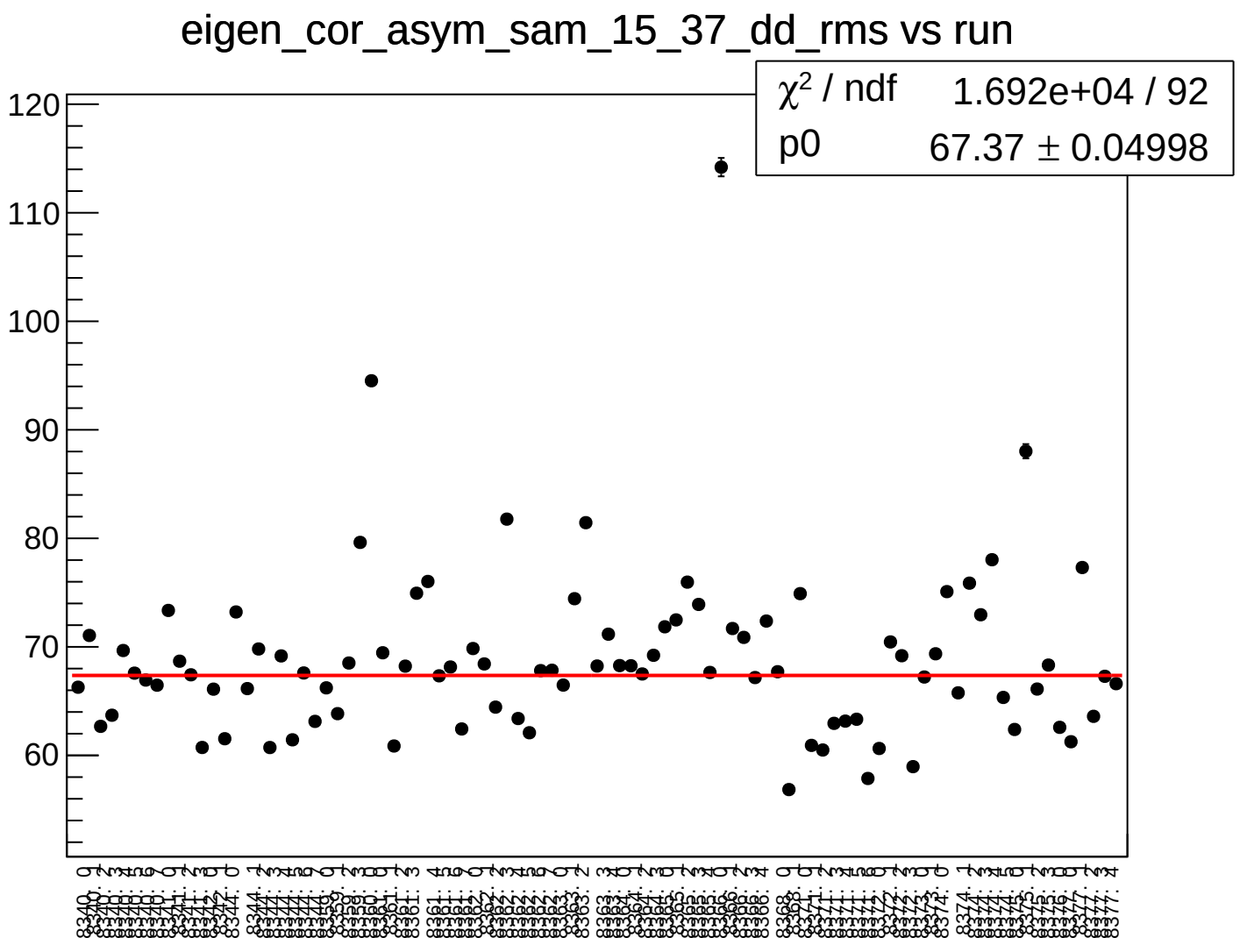

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 111.4 / 92
p0 919 ± 854.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −156.9
Std Dev 0
2
1
0
−1
−2

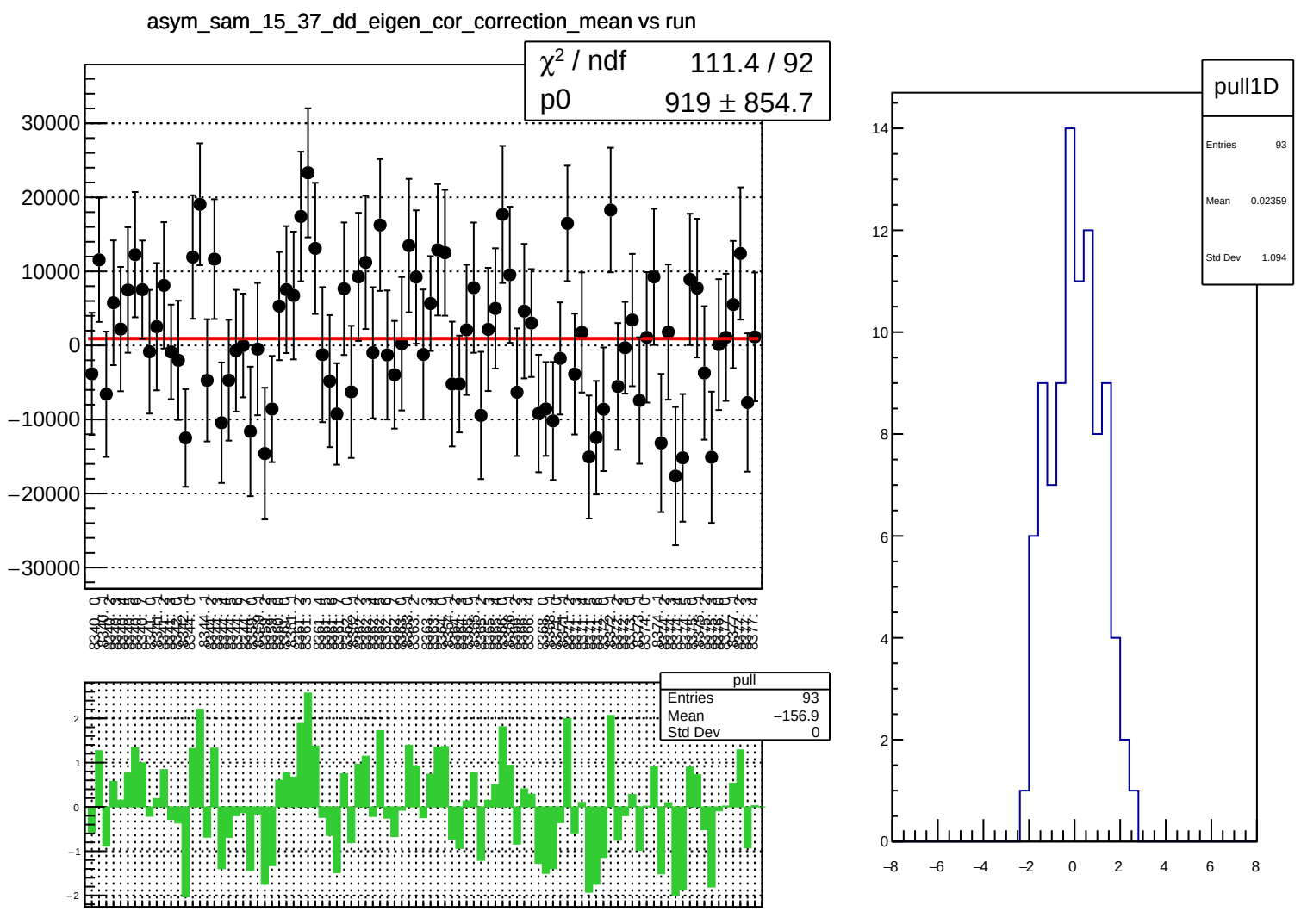

pull1D
Entries 93
Mean 0.02359
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

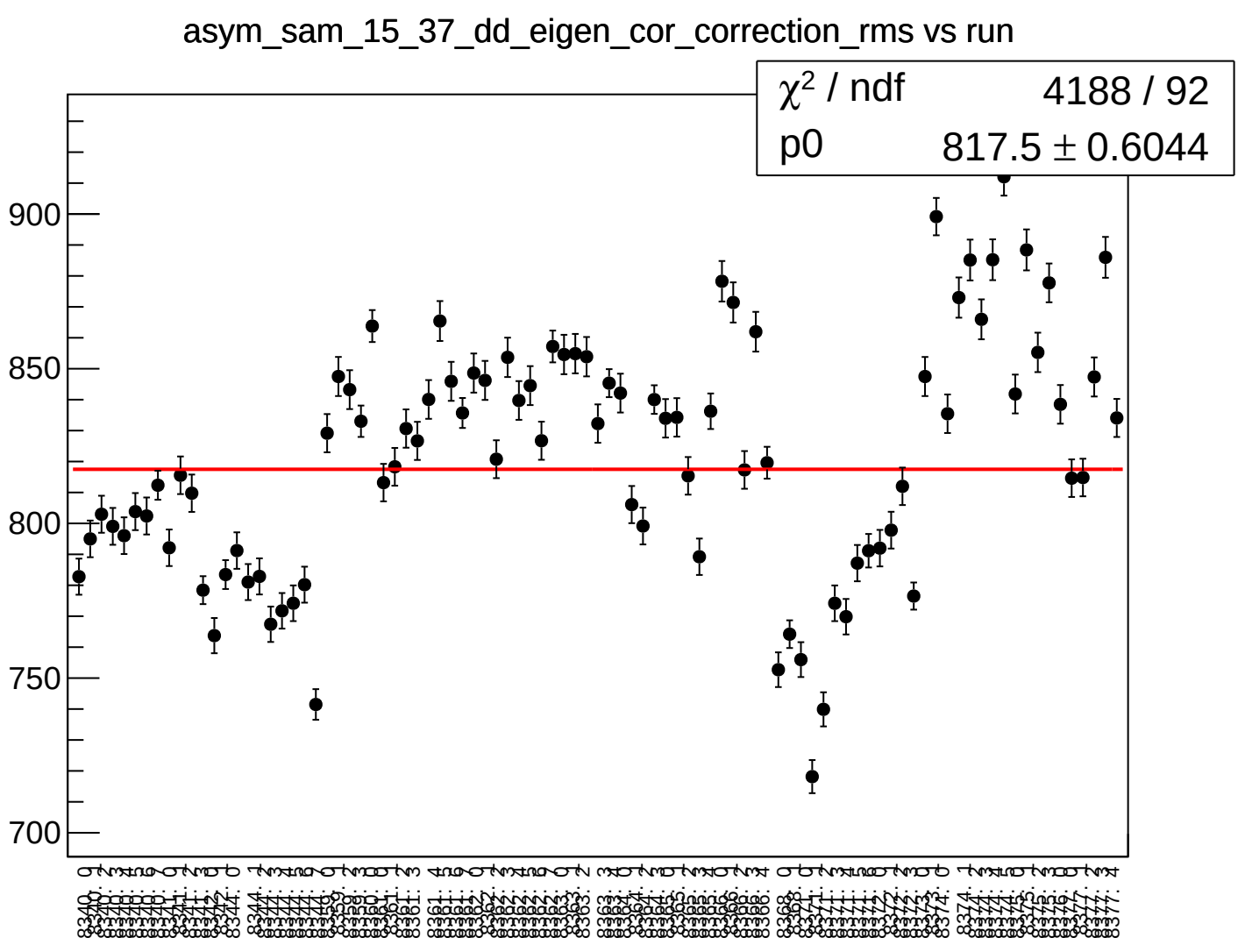

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 4188 / 92
p0 817.5 ± 0.6044
900
850
800
750
700

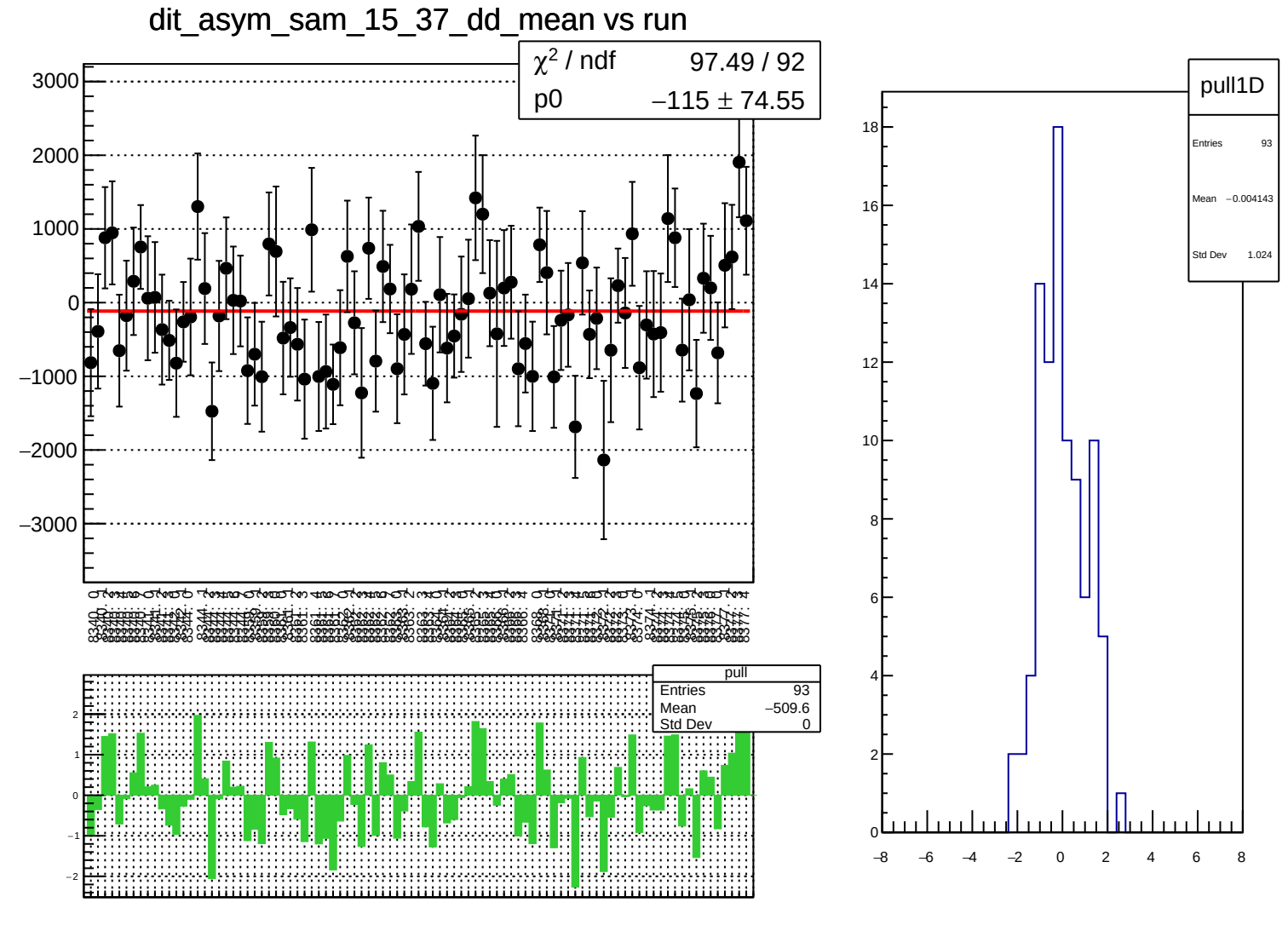

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.55 / 92
p0 −132.7 ± 70.68
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 228.3
Std Dev 0
2
1
0
−1
−2

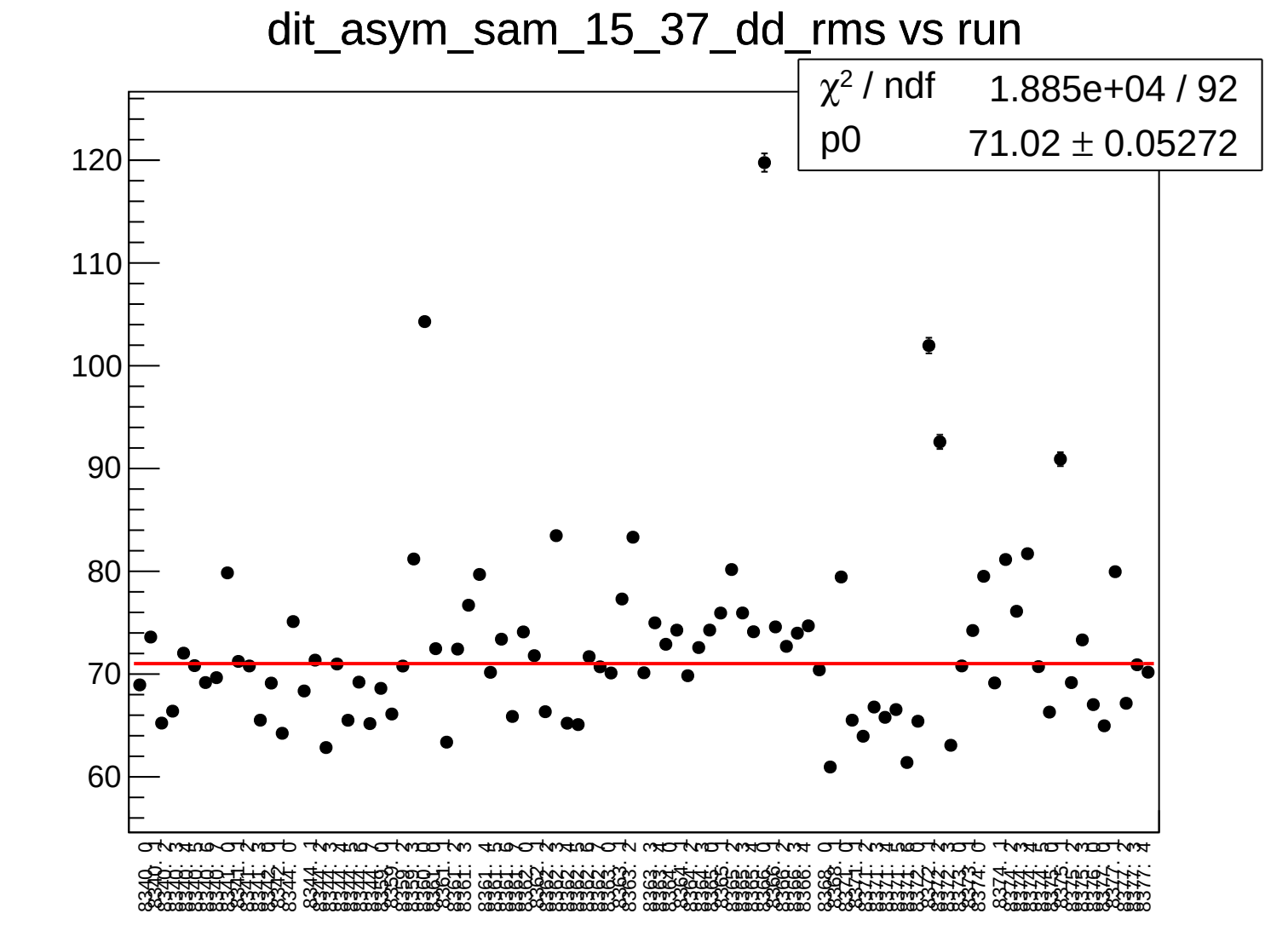

pull1D
Entries 93
Mean 0.009242
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

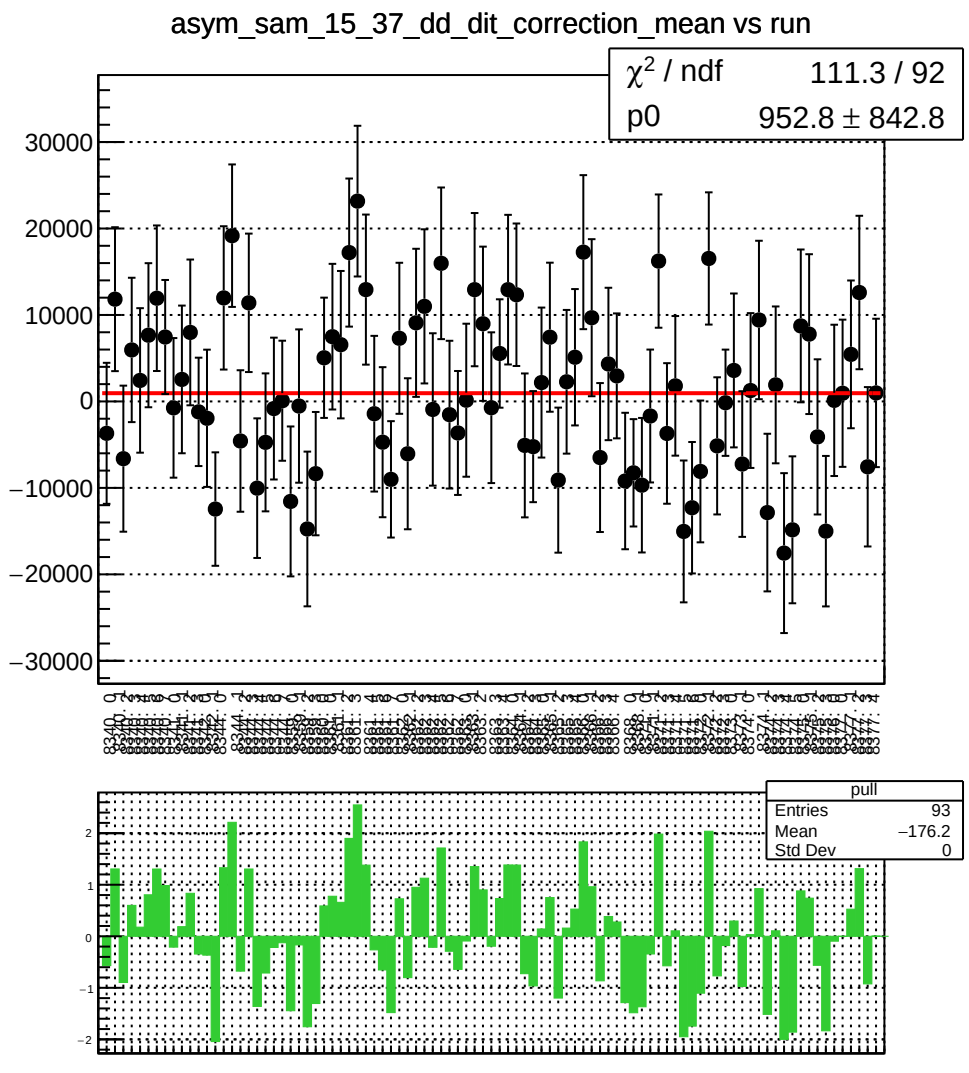

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.692e+04 / 92
p0 67.37 ± 0.04998
120
110
100
90
80
70
60

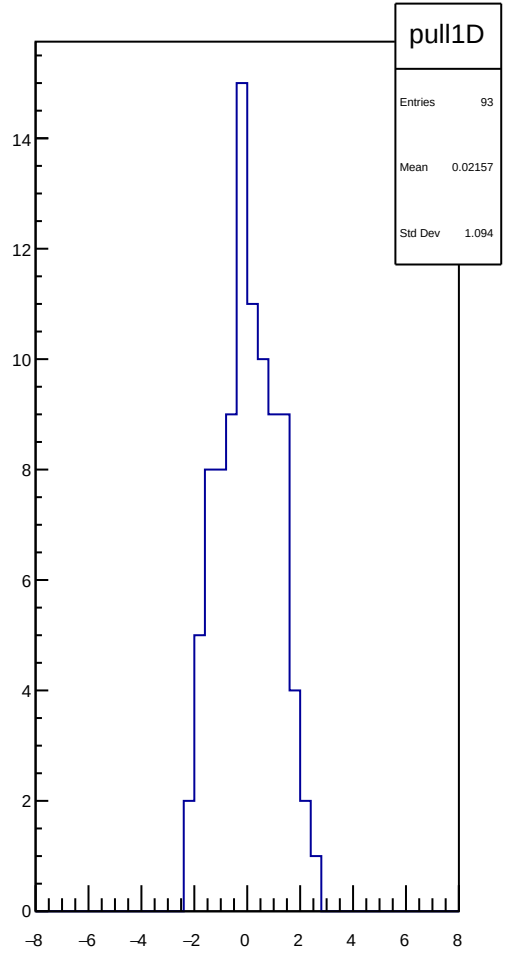

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 111.4 / 92
p0 919 ± 854.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −156.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02359
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

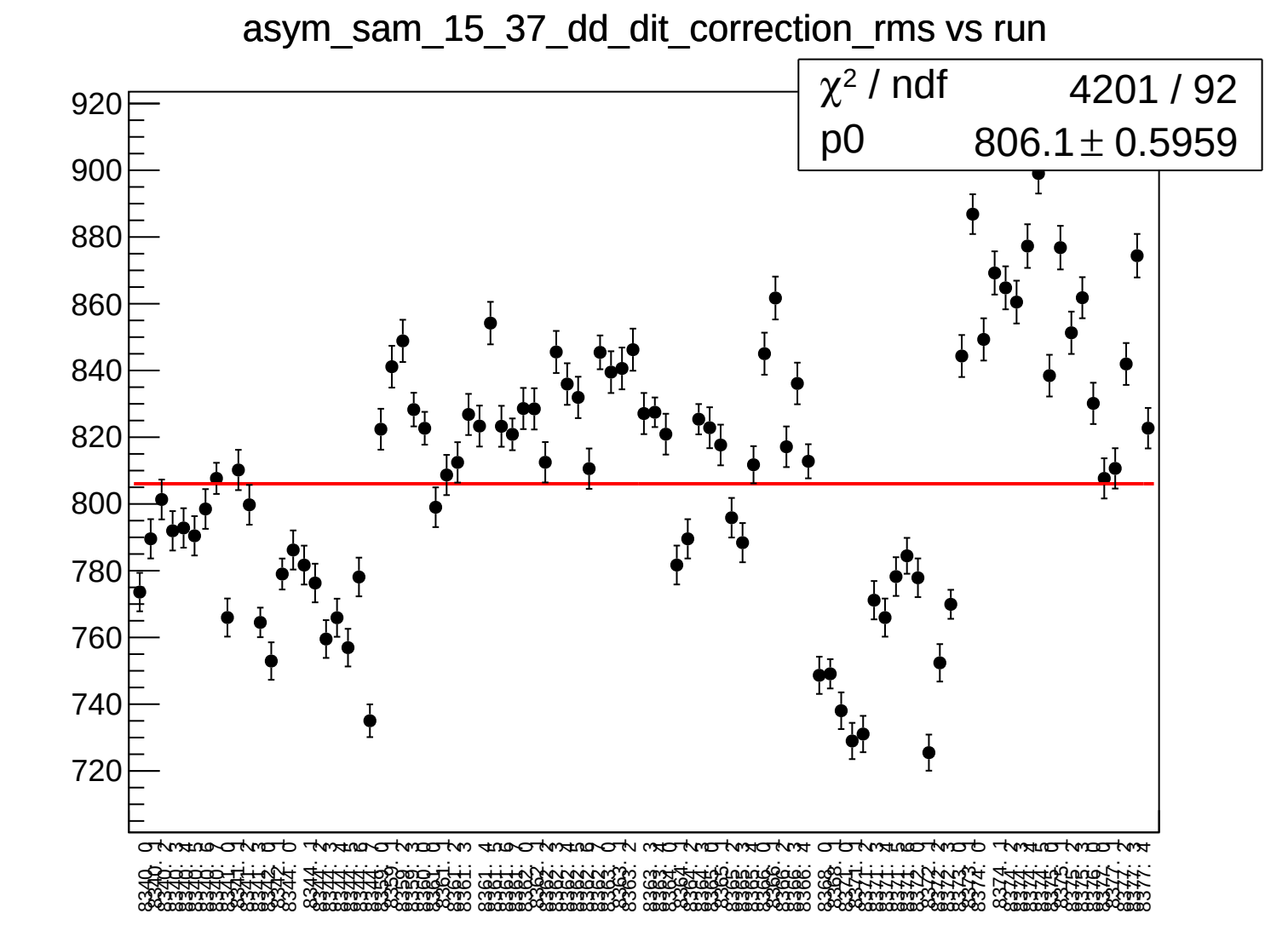

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4188 / 92
p0 817.5 ± 0.6044
900
850
800
750
700

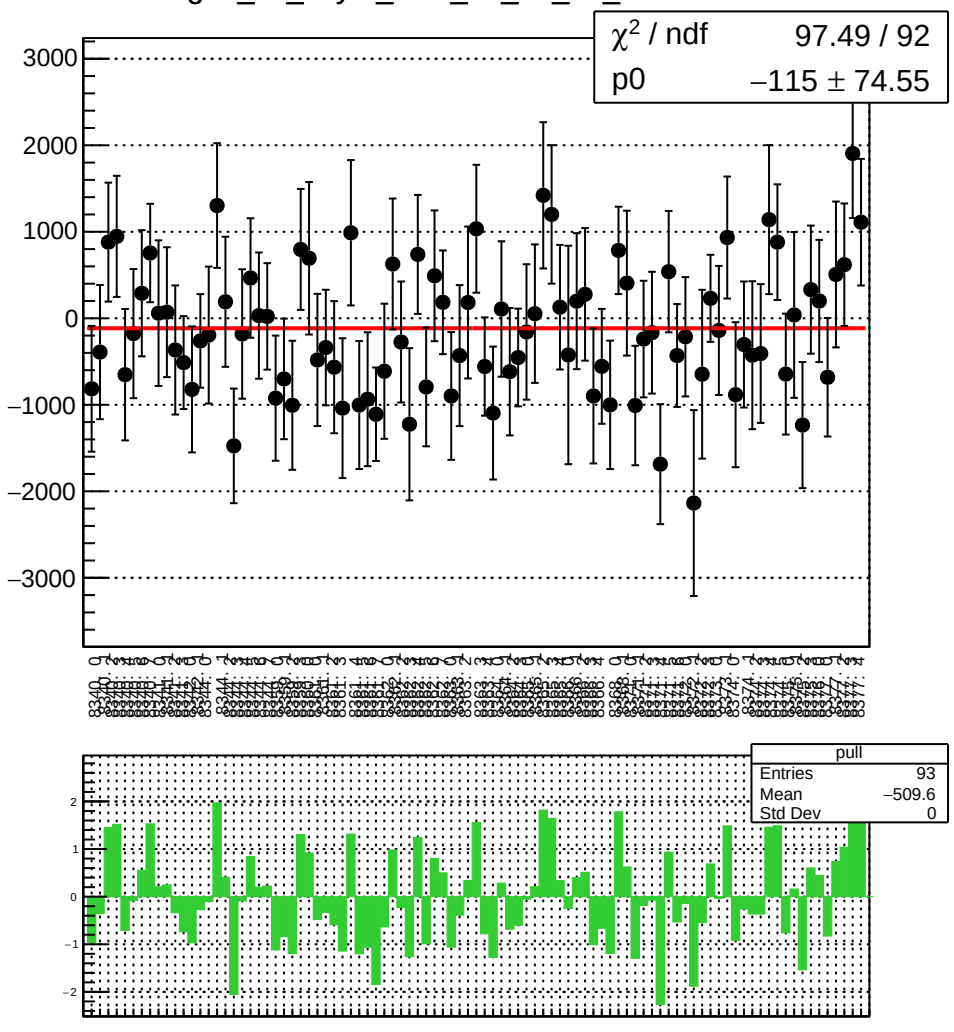

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.49 / 92
p0 −115 ± 74.55
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −509.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004143
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

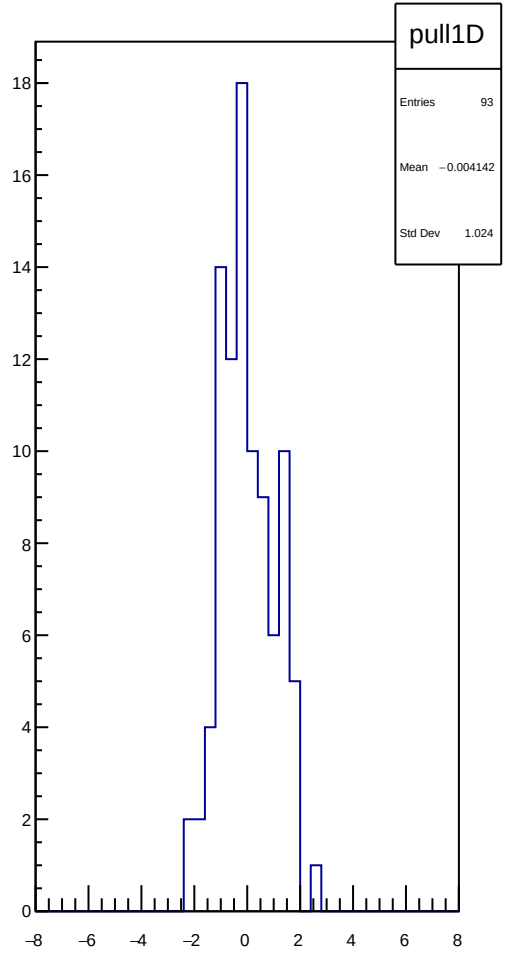

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.885e+04 / 92
p0 71.02 ± 0.05272
120
110
100
90
80
70
60

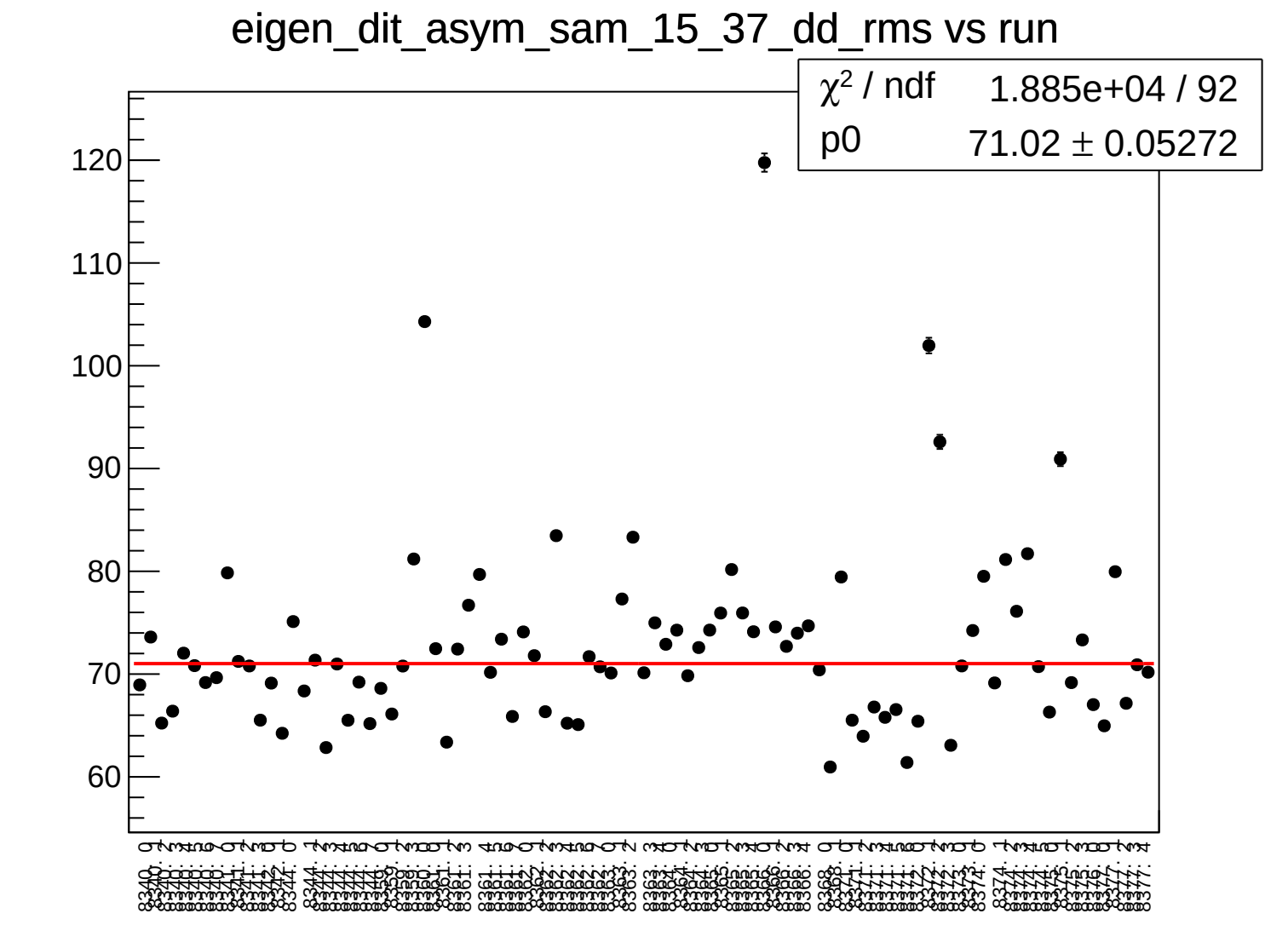

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 111.3 / 92
p0 952.8 ± 842.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −176.2
Std Dev 0
2
1
0
−1
−2

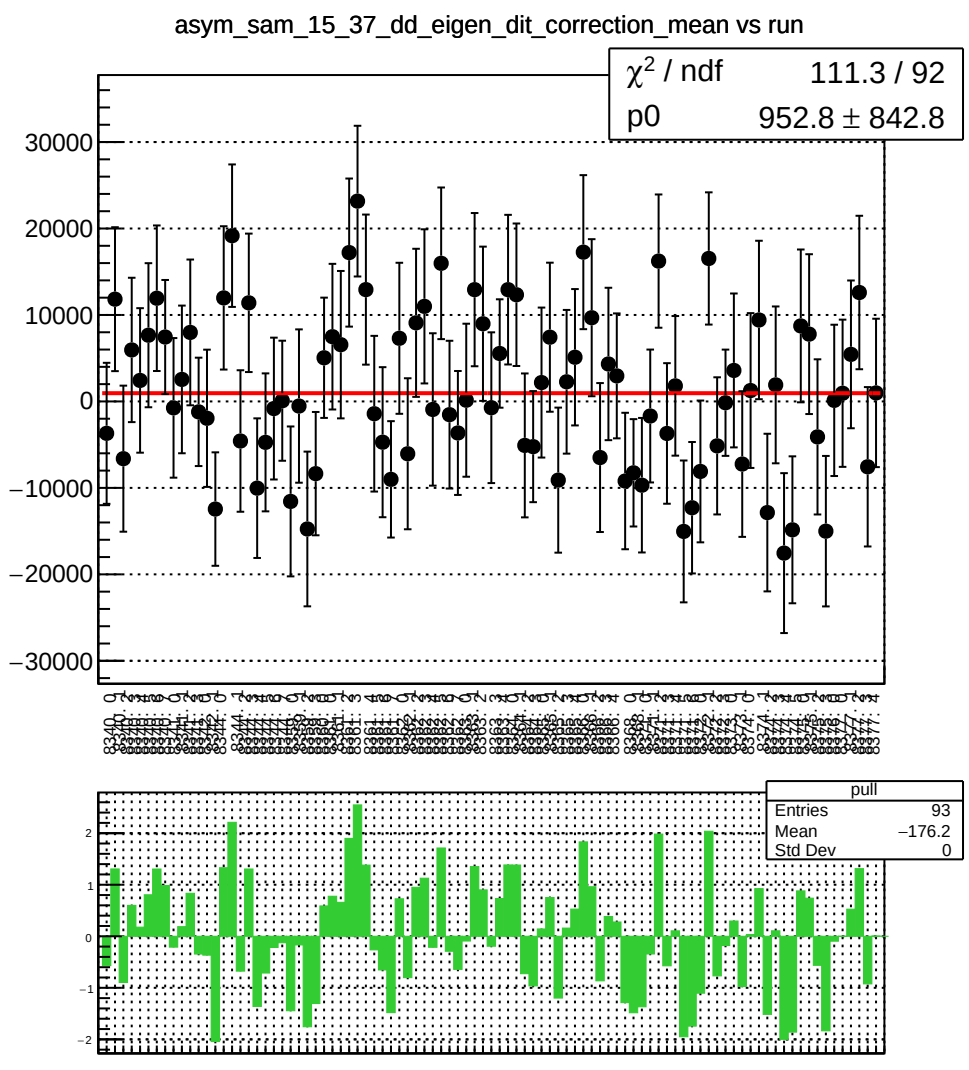

pull1D
Entries 93
Mean 0.02157
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

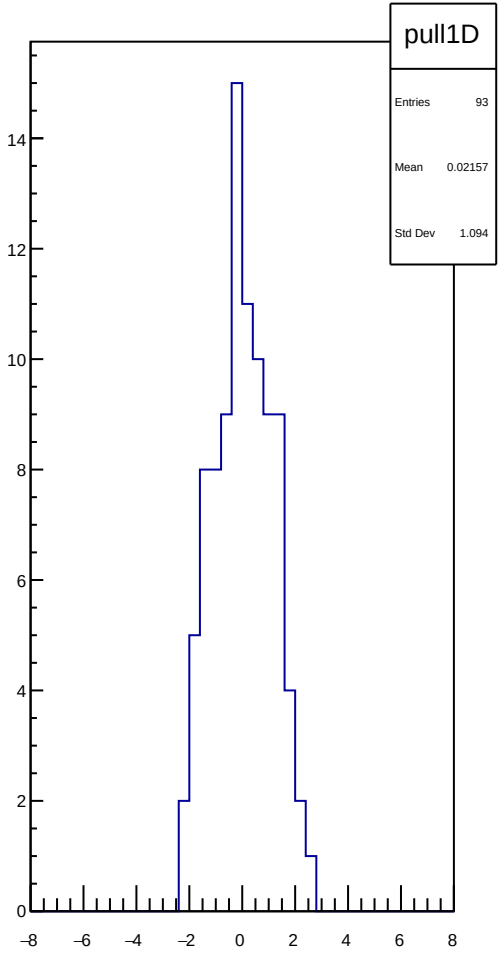

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4201 / 92
p0 806.1 ± 0.5959
920
900
880
860
840
820
800
780
760
740
720

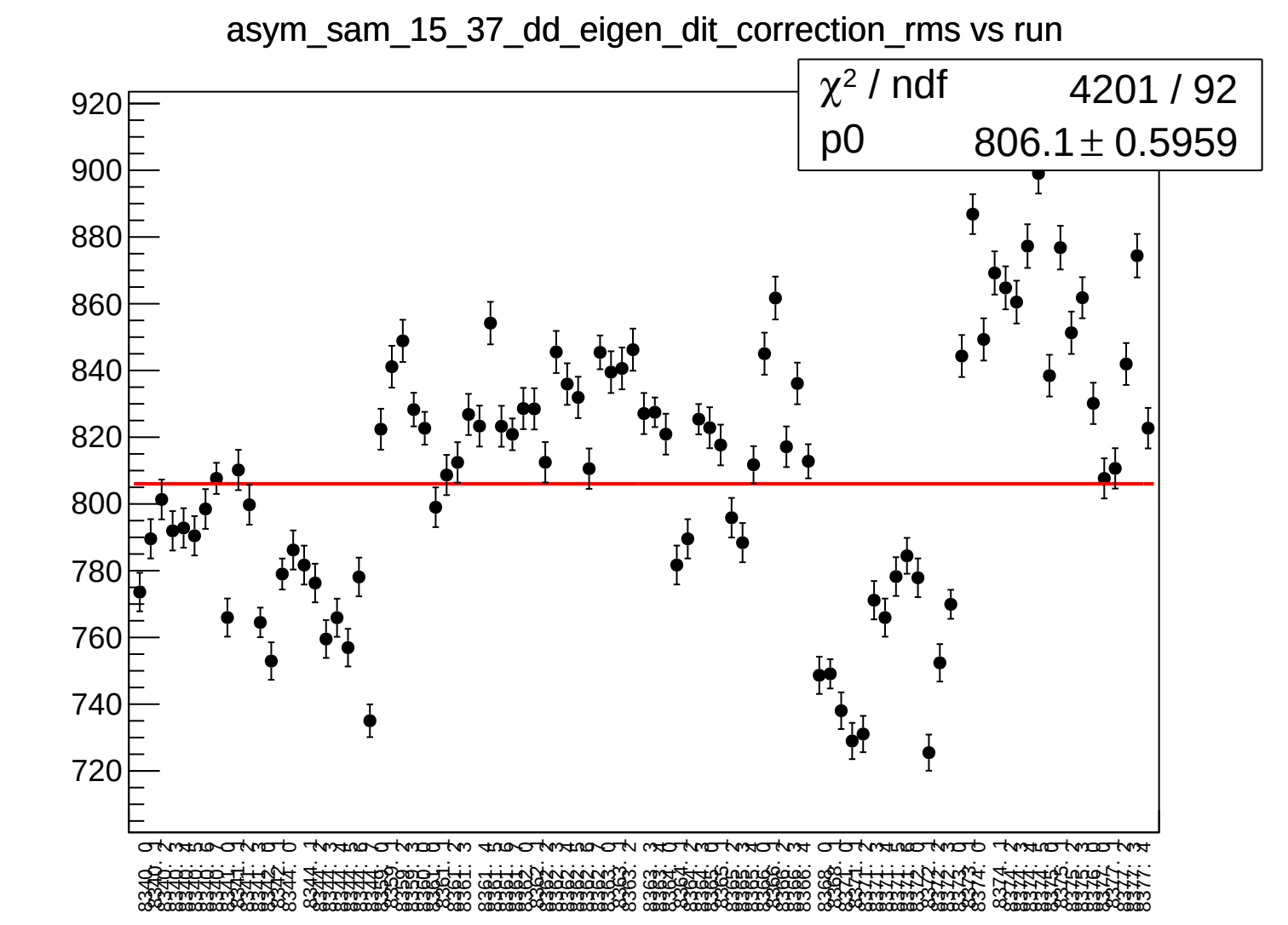

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 97.49 / 92
p0 −115 ± 74.55
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −509.6
Std Dev 0
2
1
0
−1
−2

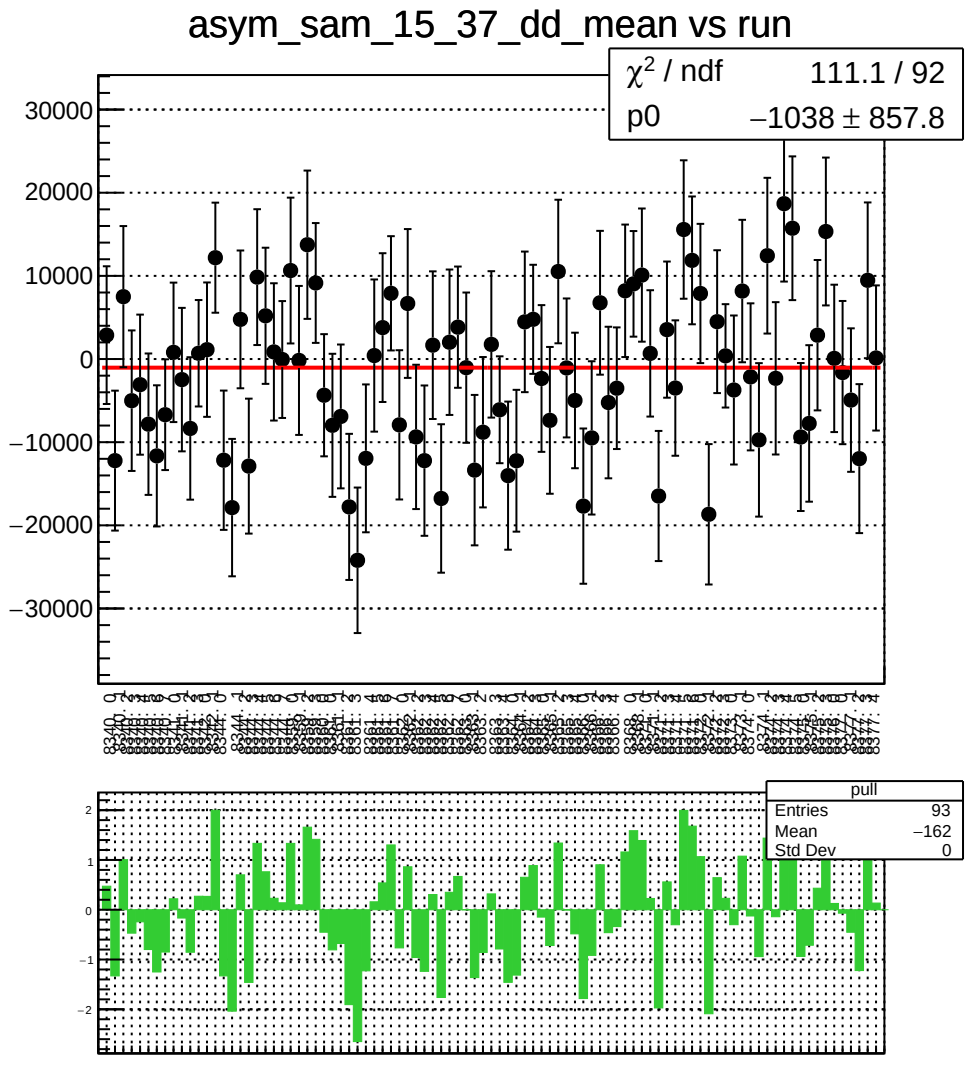

pull1D
Entries 93
Mean −0.004142
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

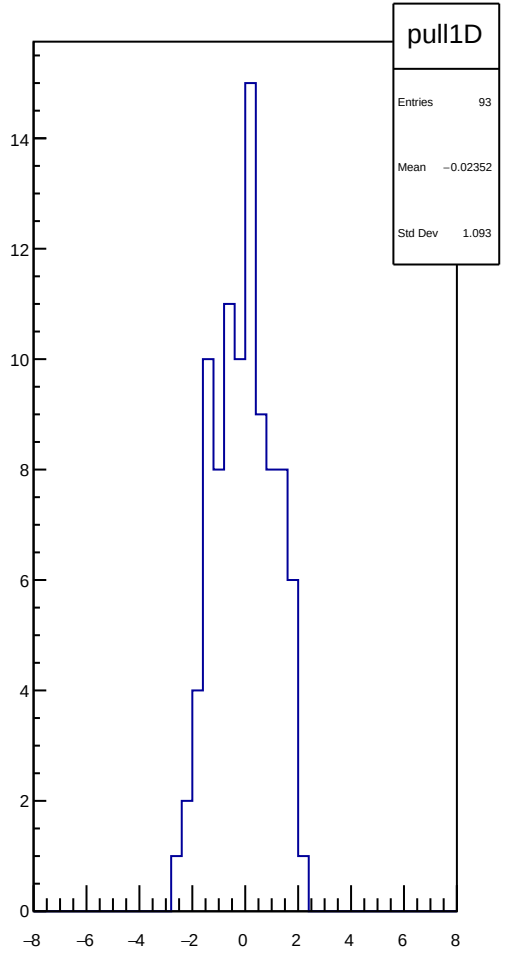

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 1.885e+04 / 92
p0 71.02 ± 0.05272
120
110
100
90
80
70
60

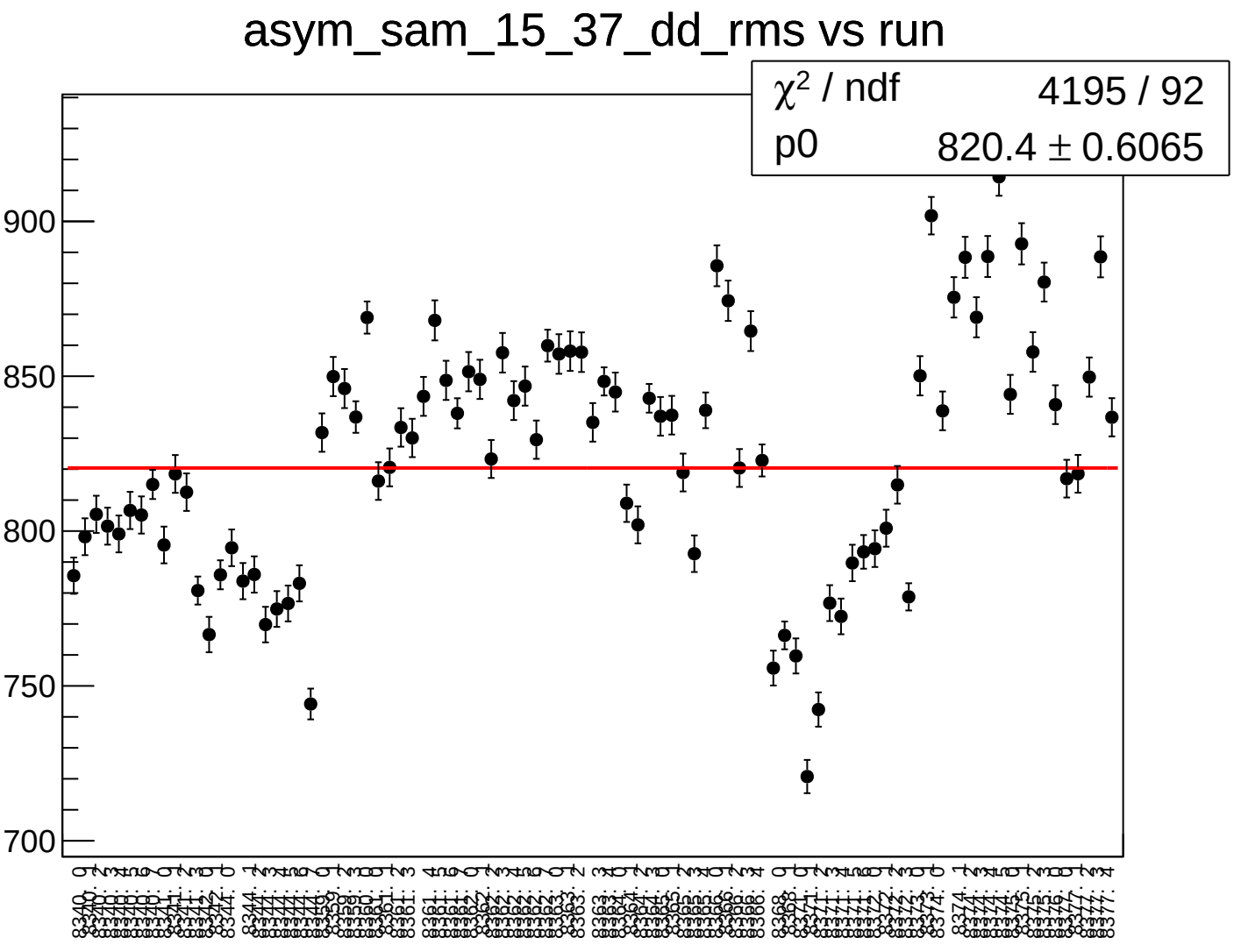

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.3 / 92
p0 952.8 ± 842.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −176.2
Std Dev 0
2
1
0
−1
−2

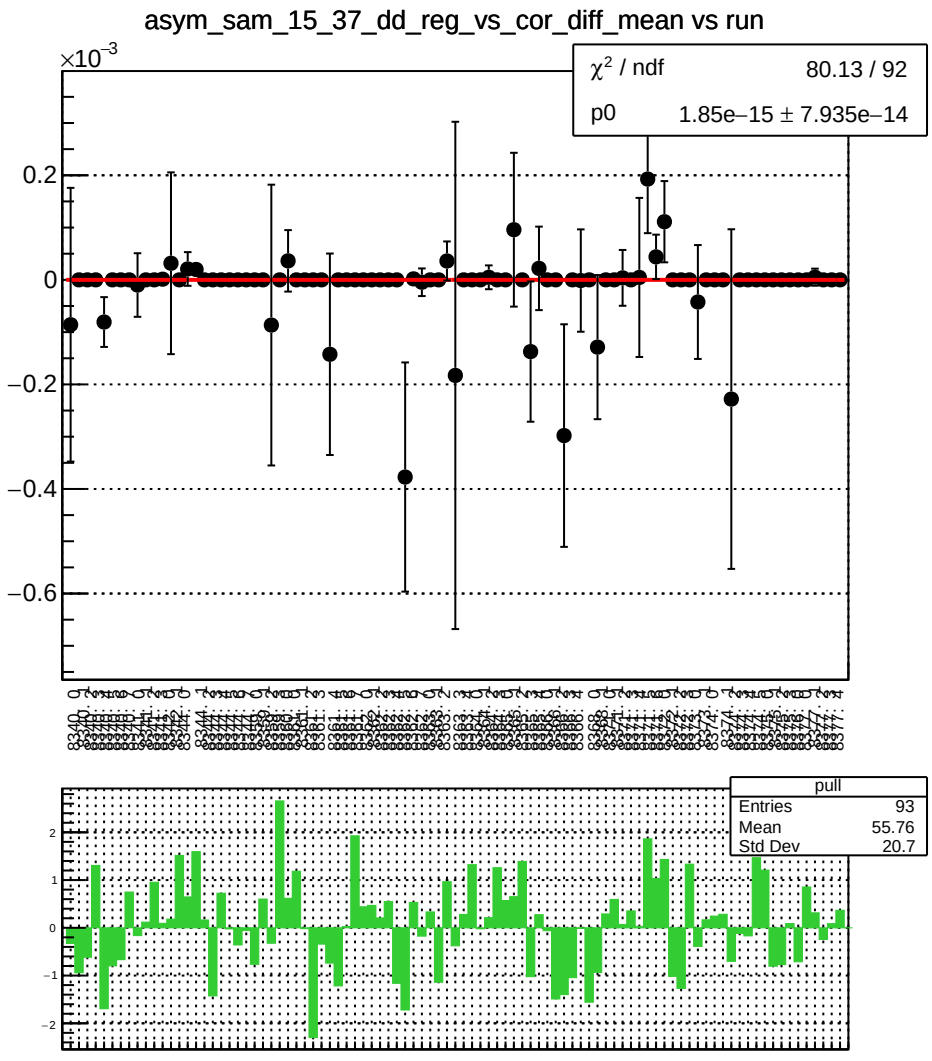

pull1D
Entries 93
Mean 0.02157
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

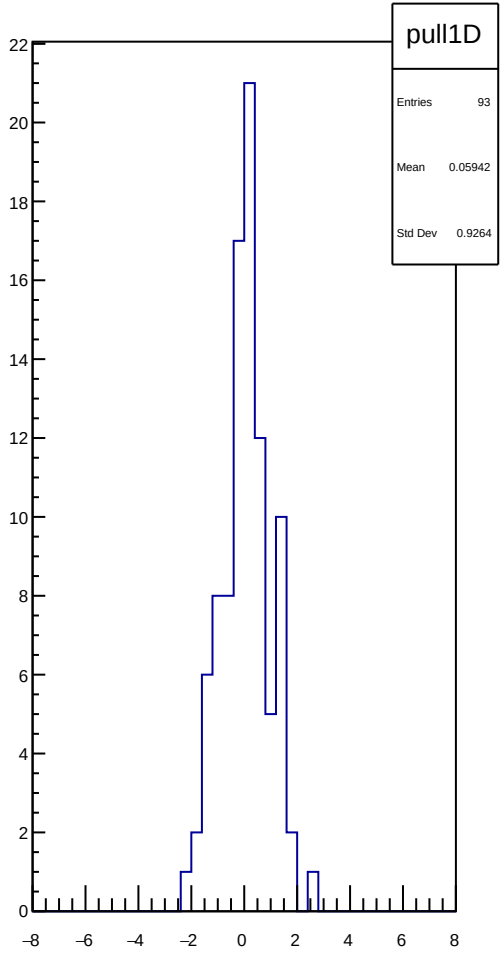

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4201 / 92
p0 806.1 ± 0.5959
920
900
880
860
840
820
800
780
760
740
720

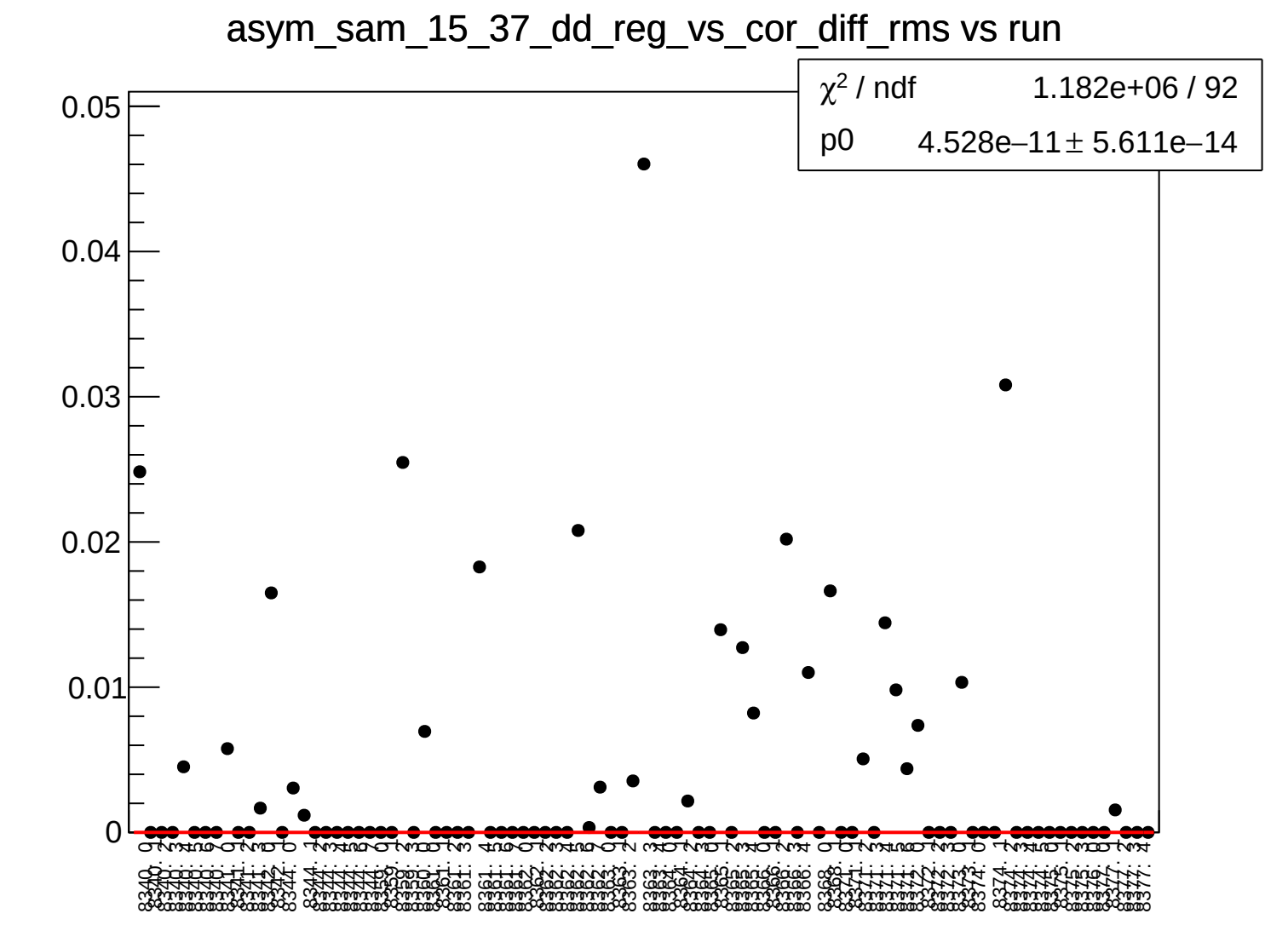

asym_sam_15_37_dd_mean vs run
χ² / ndf 111.1 / 92
p0 −1038 ± 857.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −162
Std Dev 0
2
1
0
−1
−2

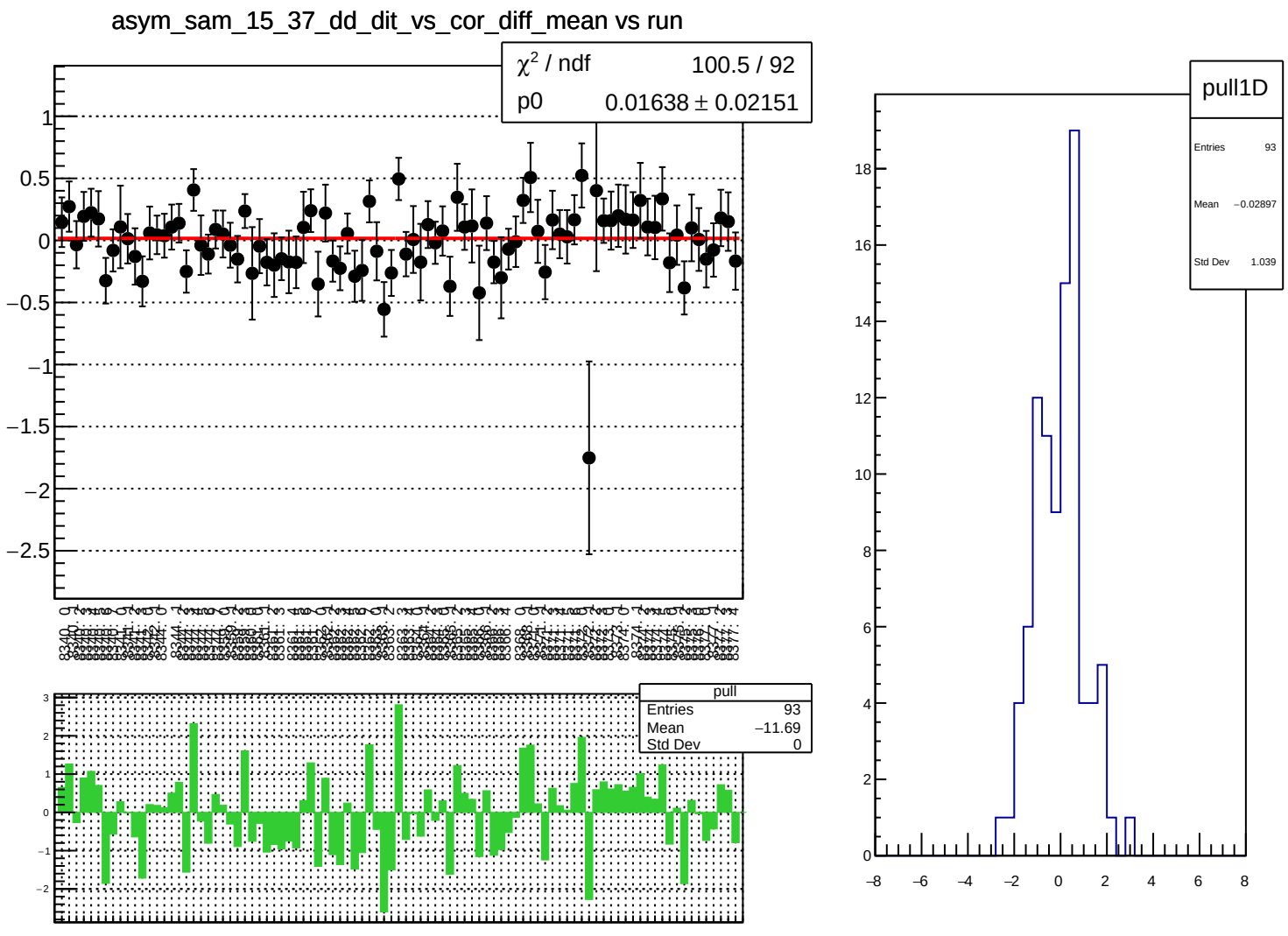

pull1D
Entries 93
Mean −0.02352
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

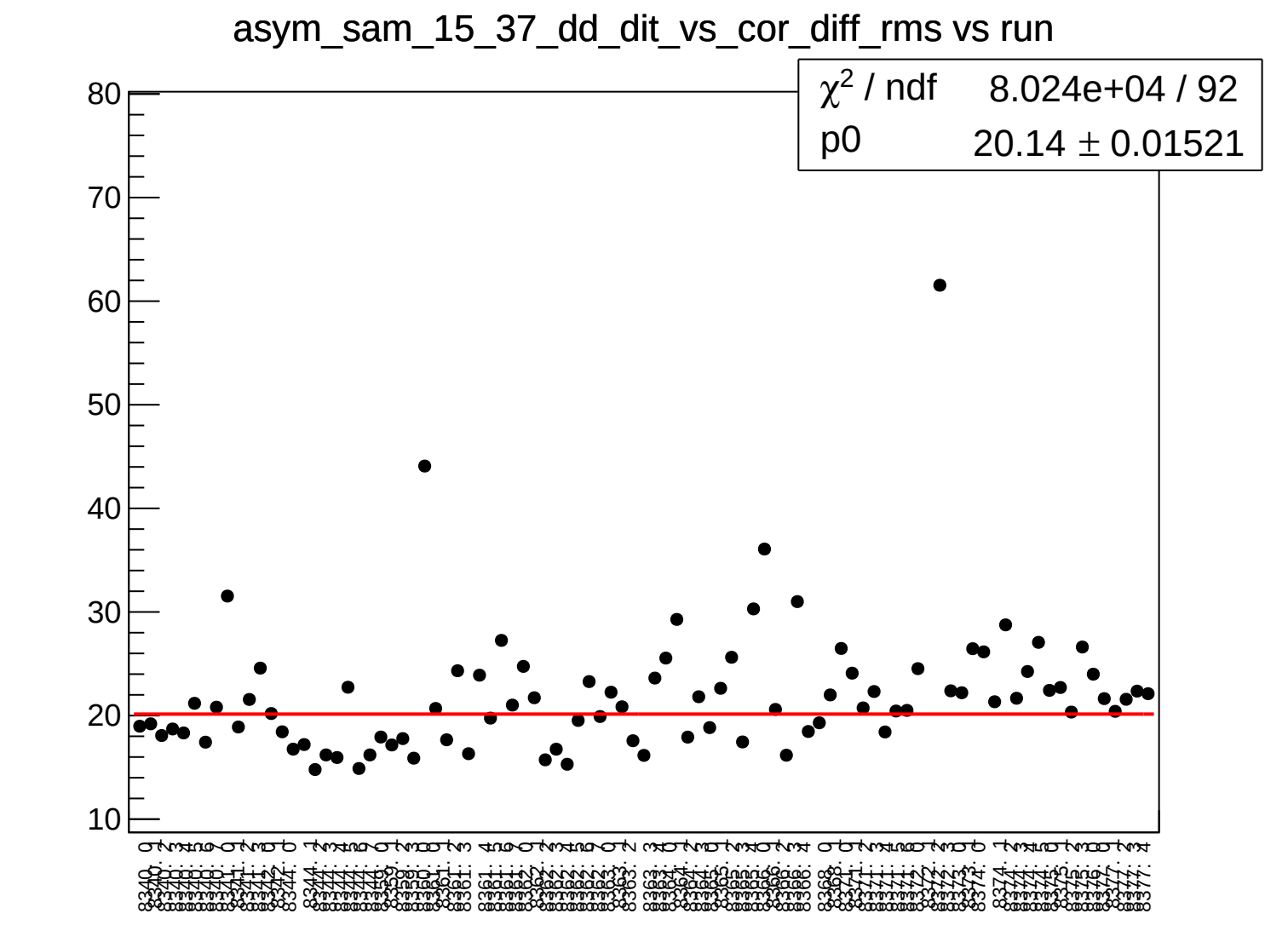

asym_sam_15_37_dd_rms vs run
χ² / ndf 4195 / 92
p0 820.4 ± 0.6065
900
850
800
750
700

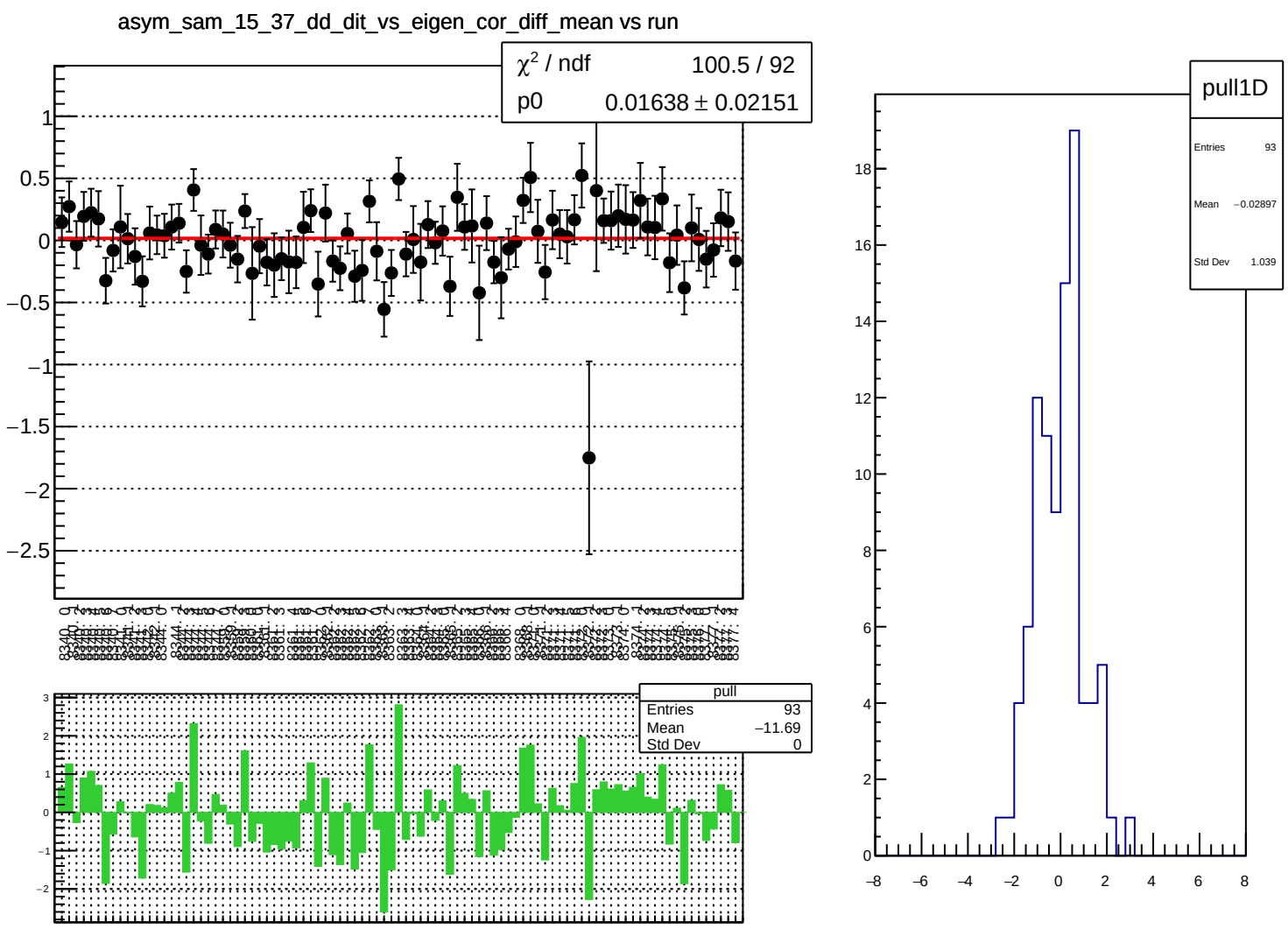

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.13 / 92
p0 1.85e−15 ± 7.935e−14
0.2
0
−0.2
−0.4
−0.6
pull
Entries 93
Mean 55.76
Std Dev 20.7
2
1
0
−1
−2

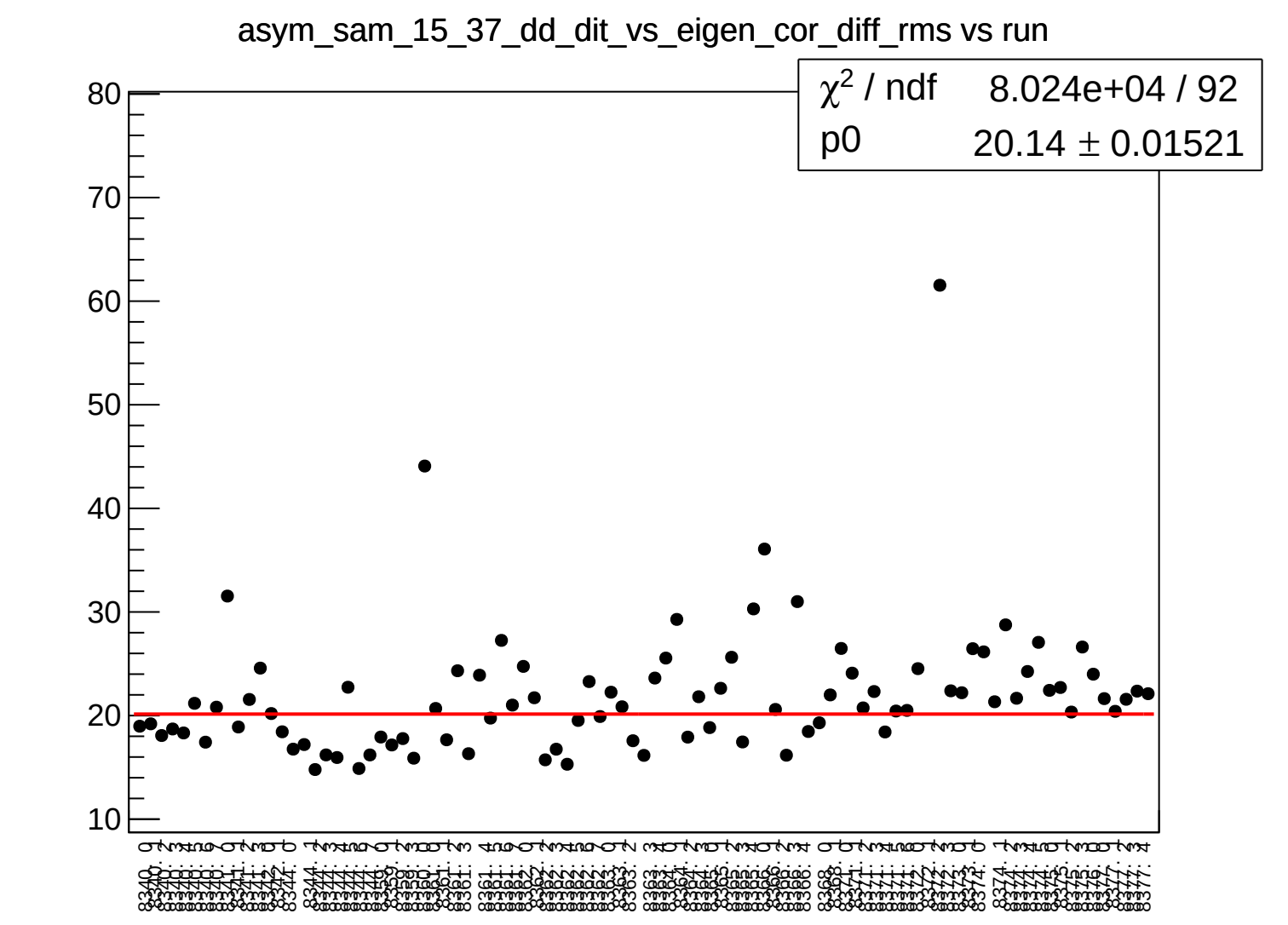

pull1D
Entries 93
Mean 0.05942
Std Dev 0.9264
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

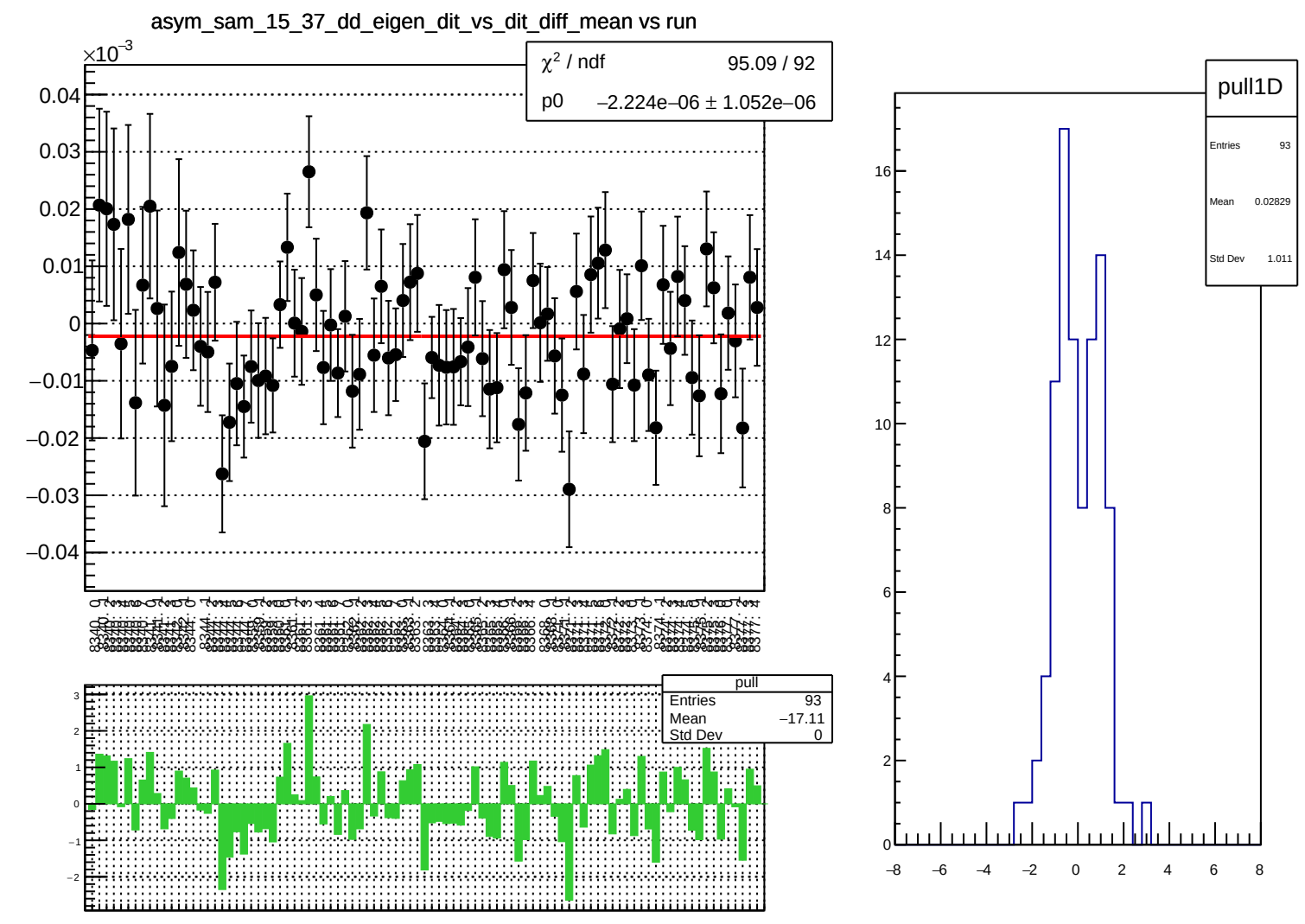

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.182e+06 / 92
p0 4.528e−11 ± 5.611e−14
0.05
0.04
0.03
0.02
0.01
0

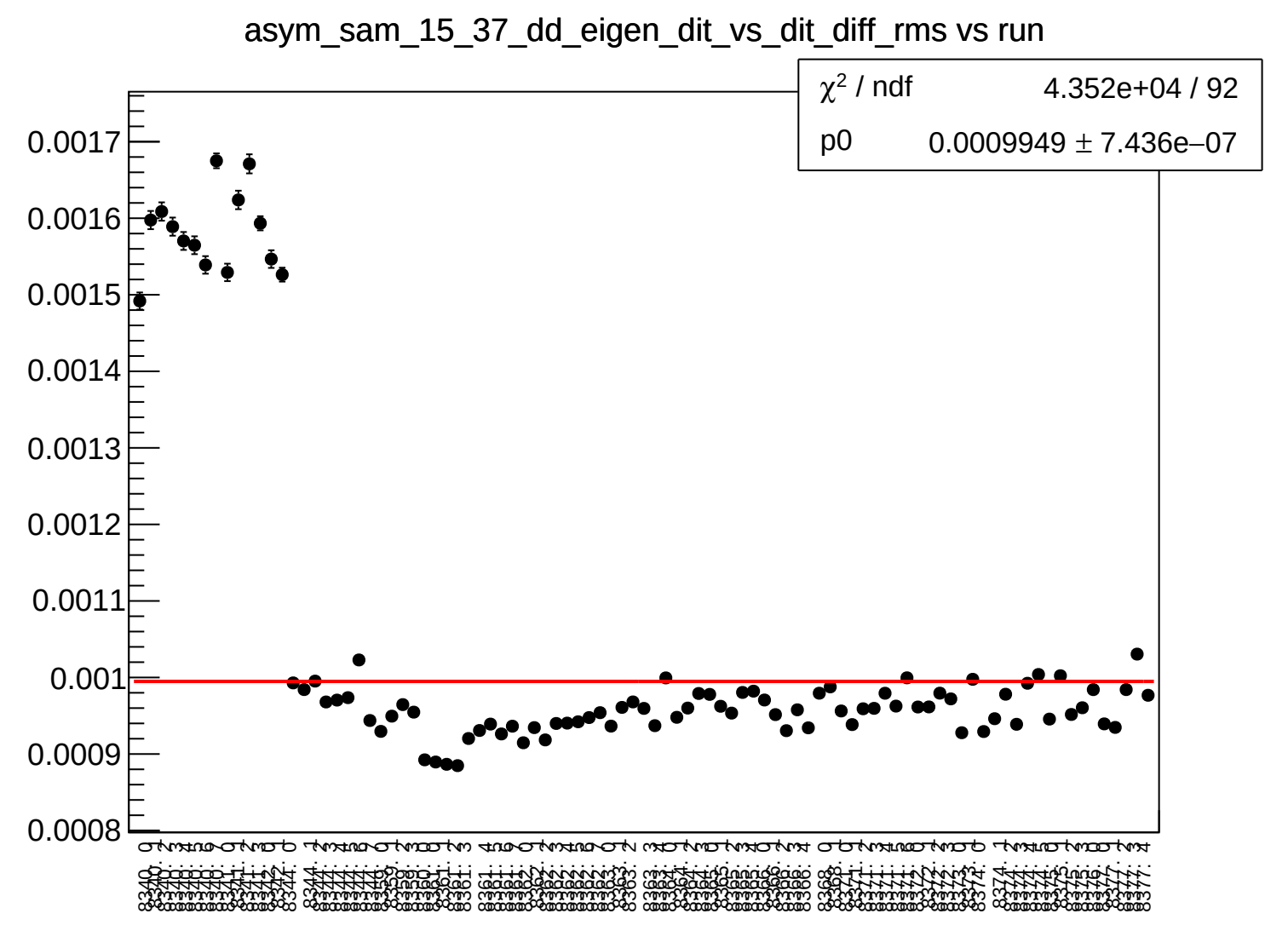

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 0.01638 ± 0.02151
pull
Entries 93
Mean −11.69
Std Dev 0
pull1D
Entries 93
Mean −0.02897
Std Dev 1.039

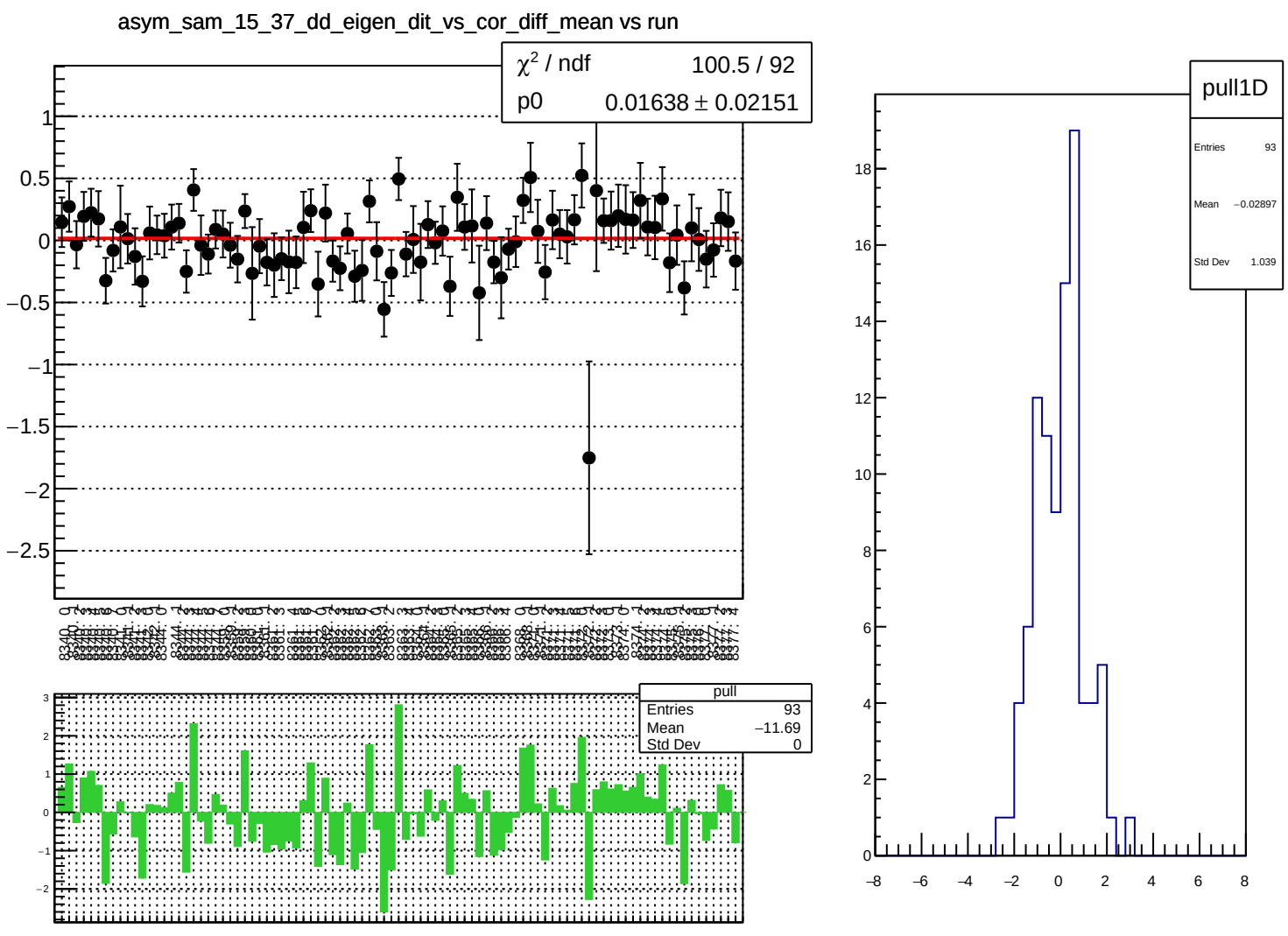

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.024e+04 / 92
p0 20.14 ± 0.01521
80
70
60
50
40
30
20
10

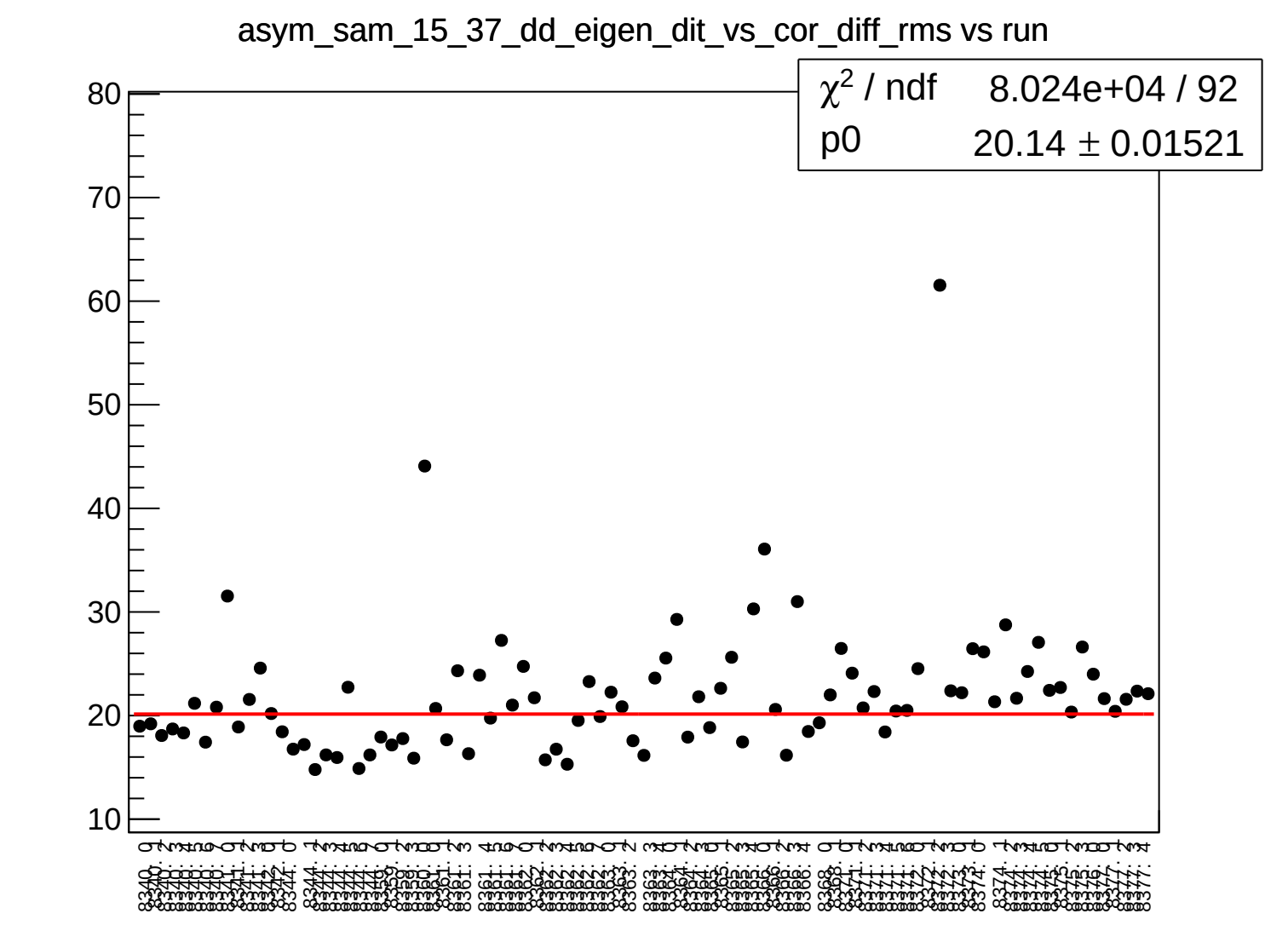

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 0.01638 ± 0.02151
pull
Entries 93
Mean −11.69
Std Dev 0
pull1D
Entries 93
Mean −0.02897
Std Dev 1.039

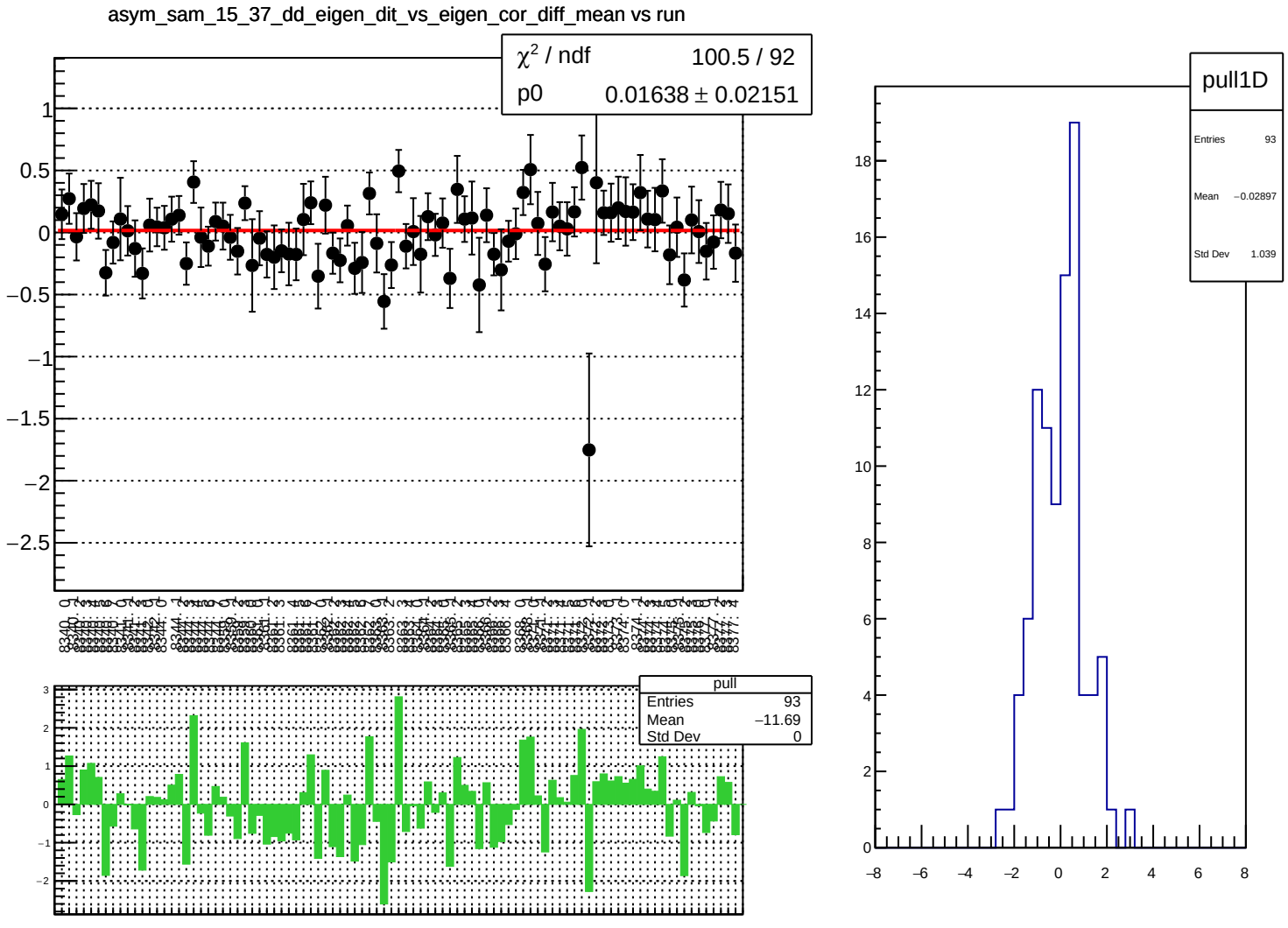

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.024e+04 / 92
p0 20.14 ± 0.01521
80
70
60
50
40
30
20
10

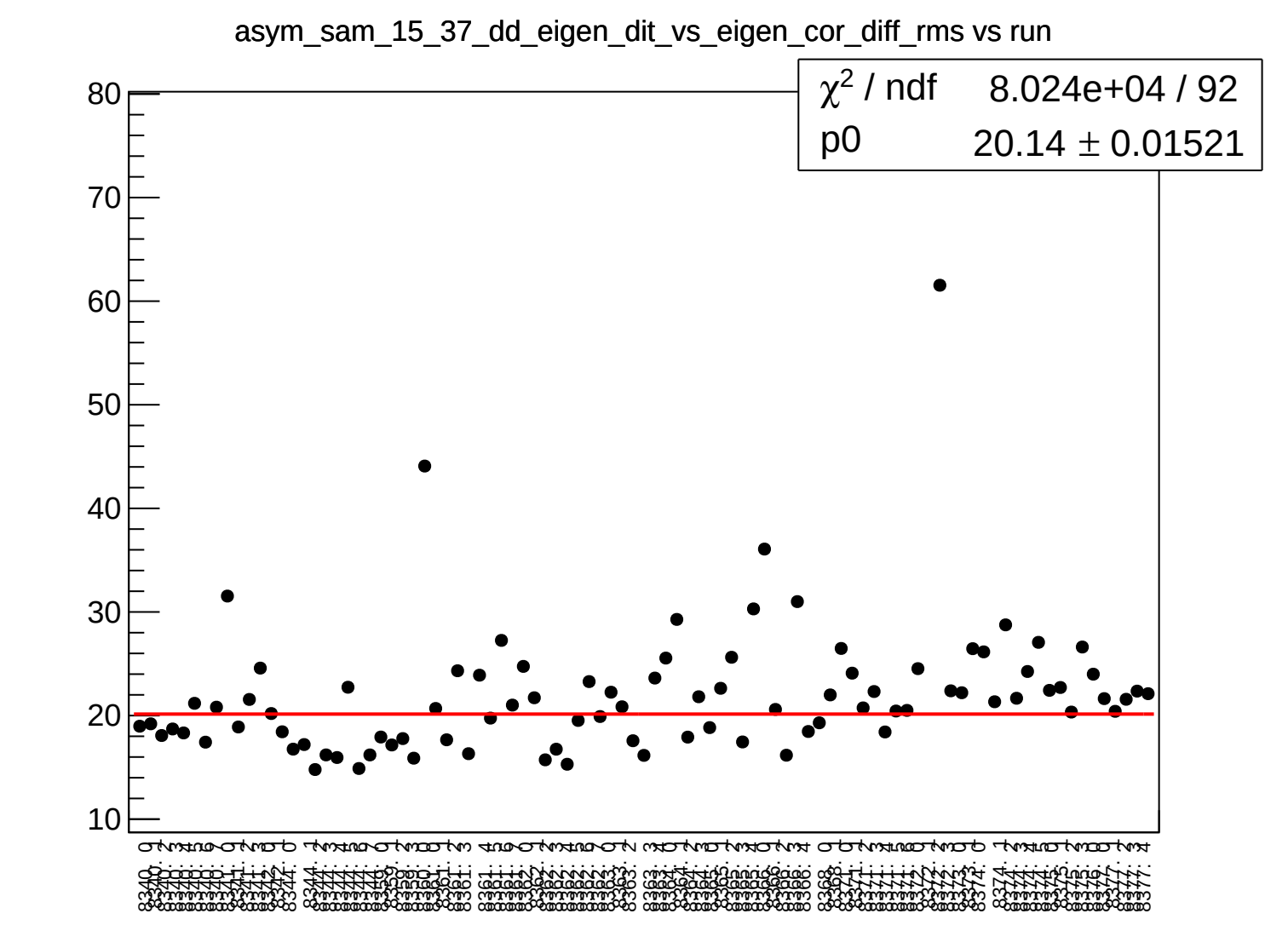

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.09 / 92
p0 −2.224e−06 ± 1.052e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean −17.11
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02829
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

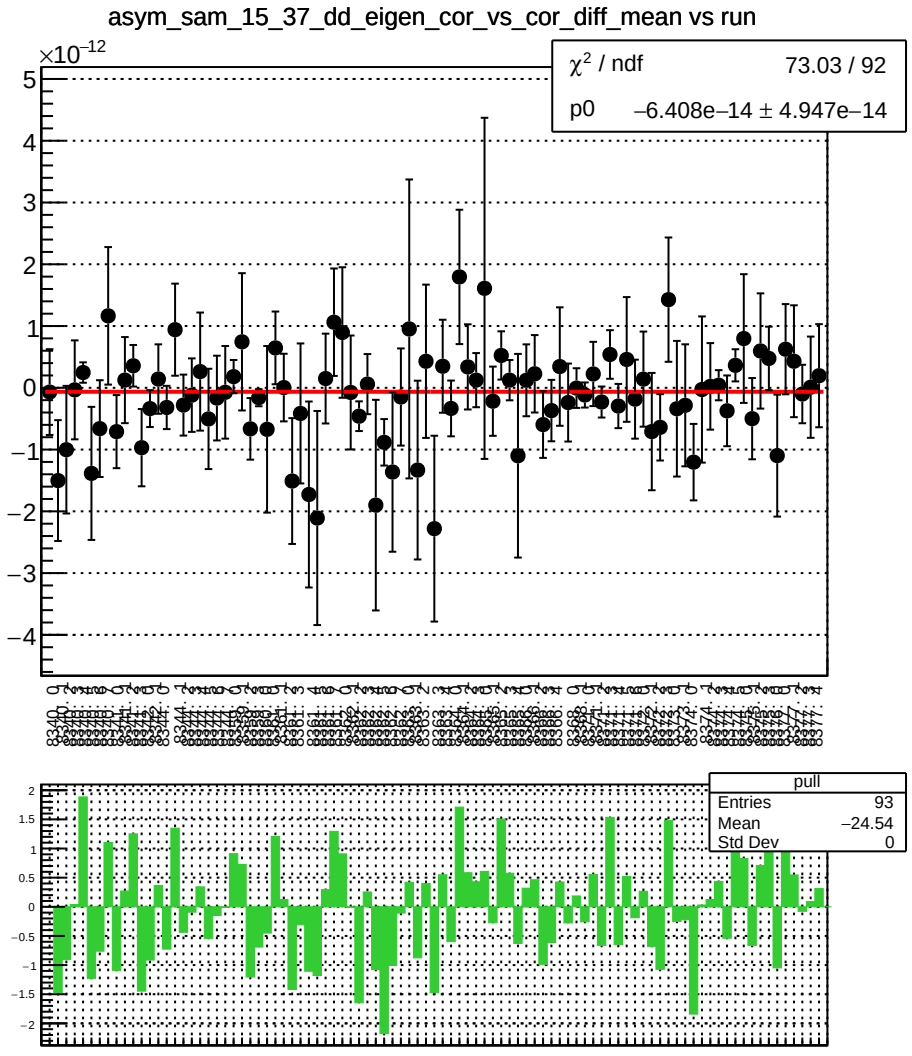

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.352e+04 / 92
p0 0.0009949 ± 7.436e−07
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

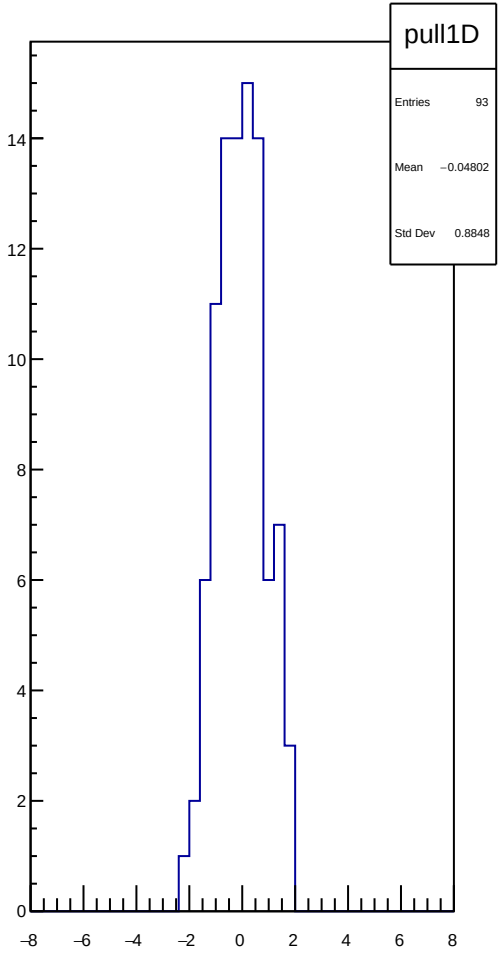

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 0.01638 ± 0.02151
pull
Entries 93
Mean −11.69
Std Dev 0
pull1D
Entries 93
Mean −0.02897
Std Dev 1.039

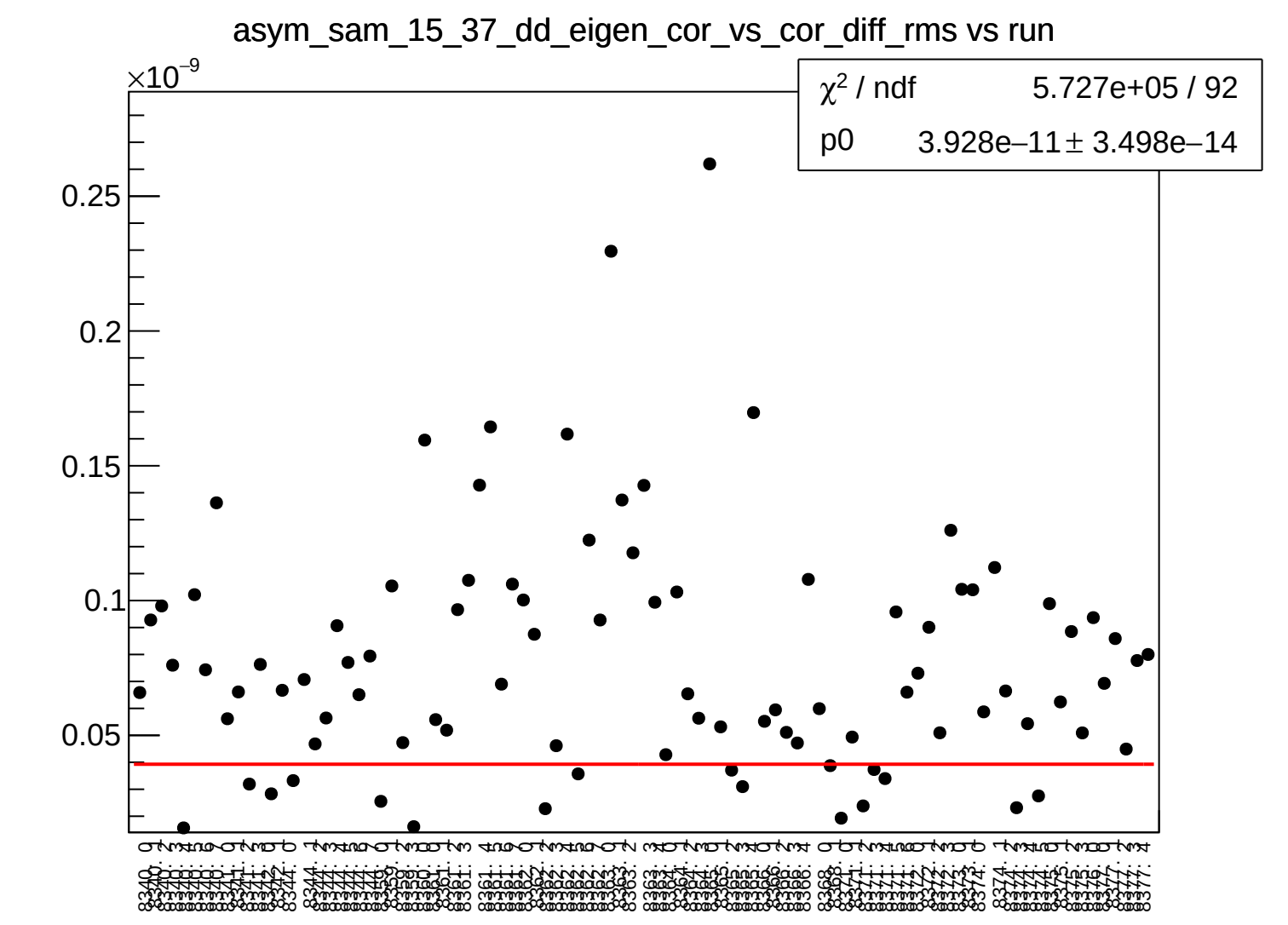

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.024e+04 / 92
p0 20.14 ± 0.01521
80
70
60
50
40
30
20
10

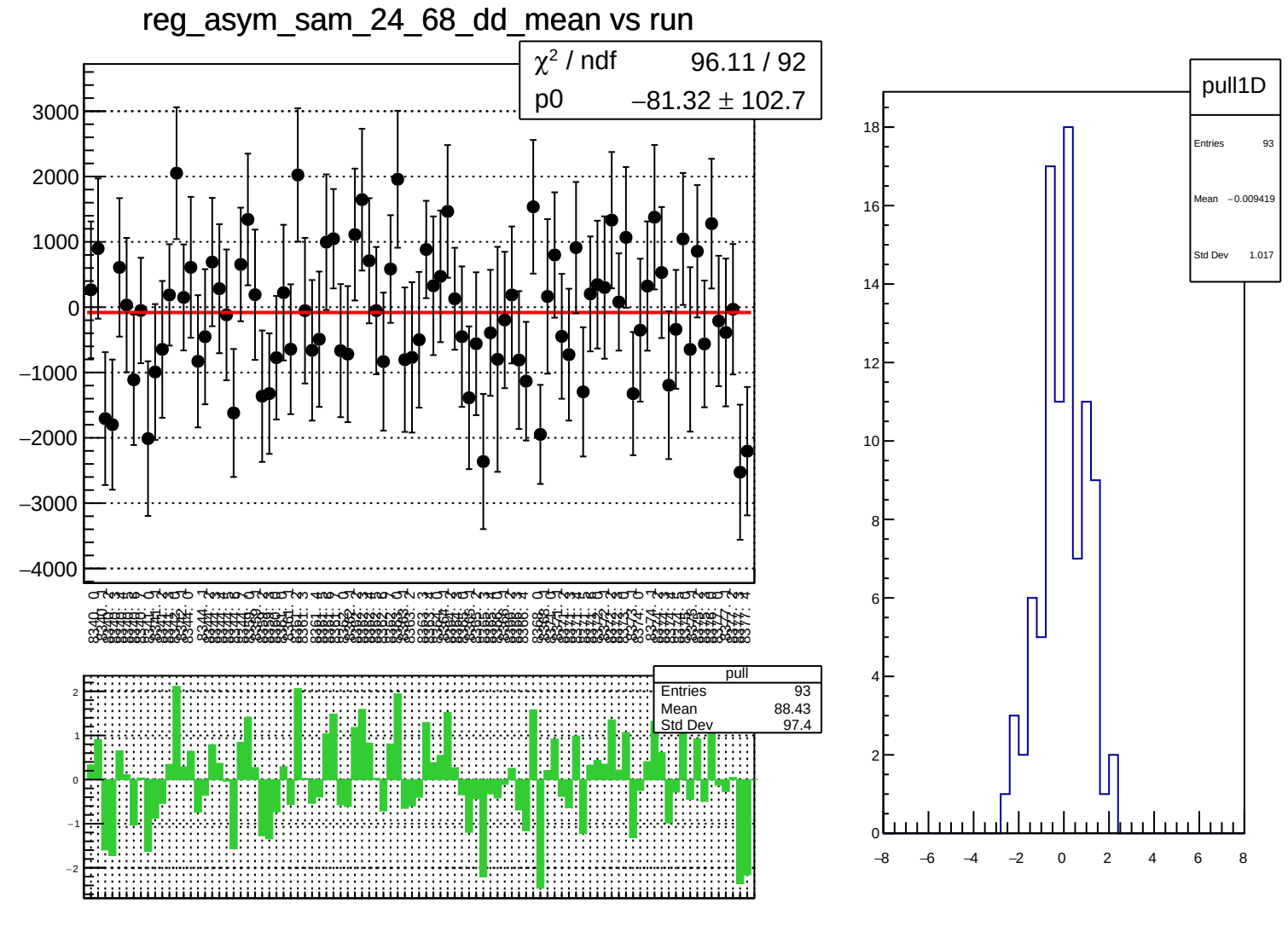

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.5 / 92
p0 0.01638 ± 0.02151
pull
Entries 93
Mean −11.69
Std Dev 0
pull1D
Entries 93
Mean −0.02897
Std Dev 1.039

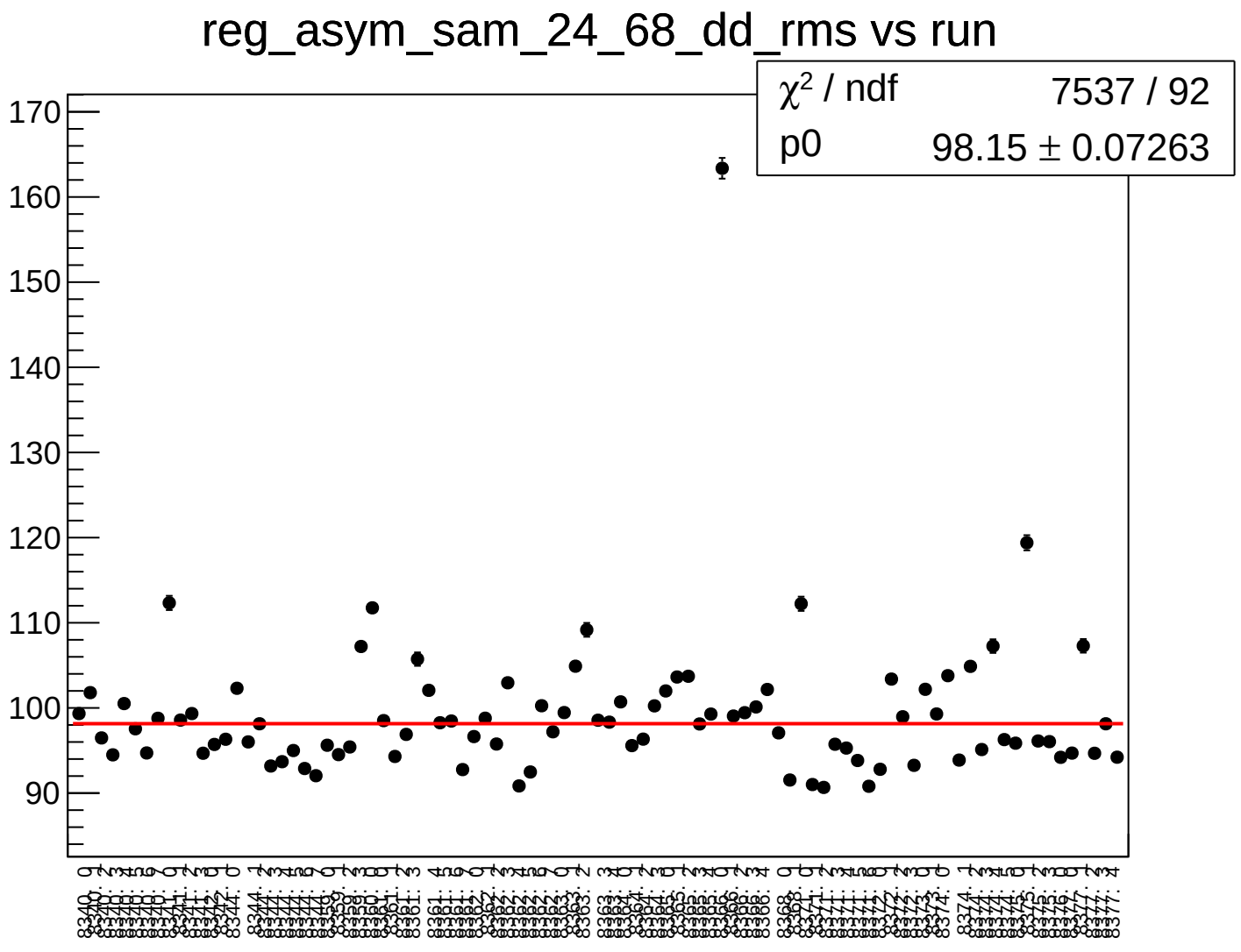

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.024e+04 / 92
p0 20.14 ± 0.01521
80
70
60
50
40
30
20
10

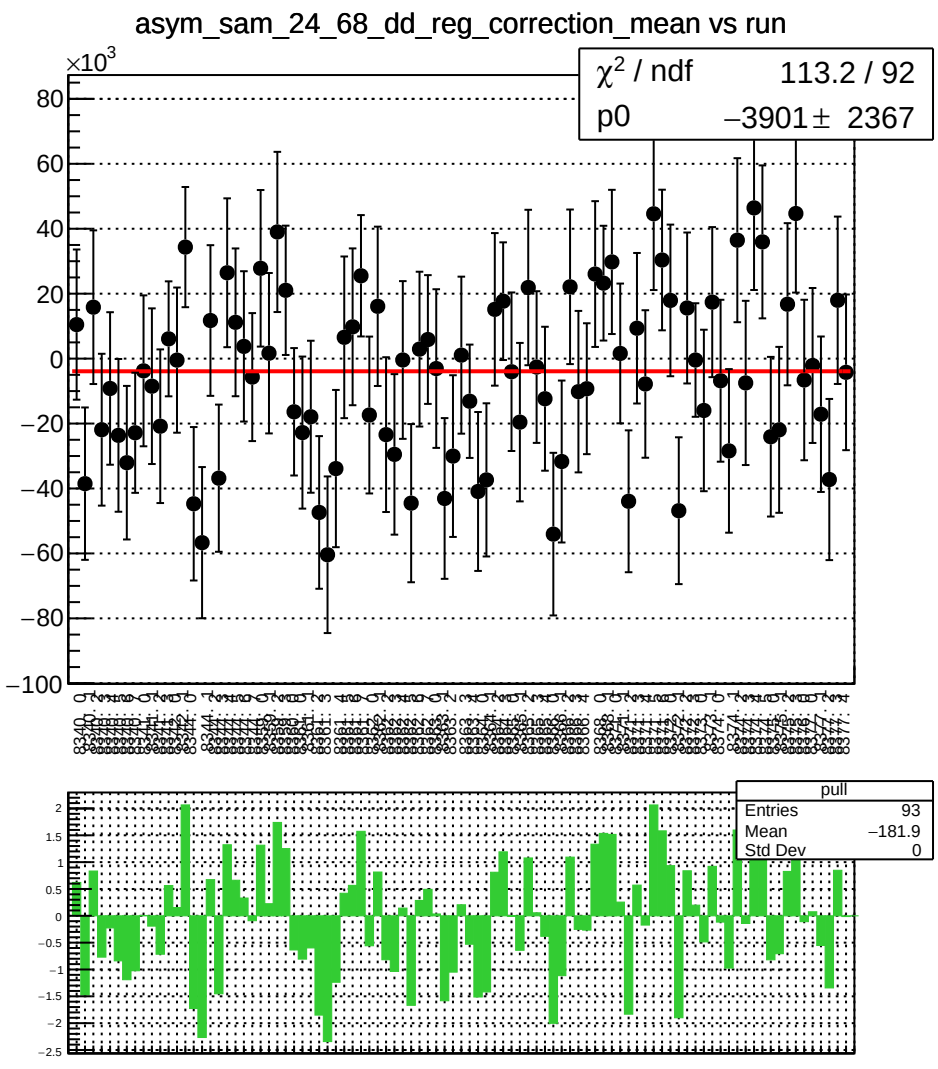

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.03 / 92
p0 −6.408e−14 ± 4.947e−14
pull
Entries 93
Mean −24.54
Std Dev 0

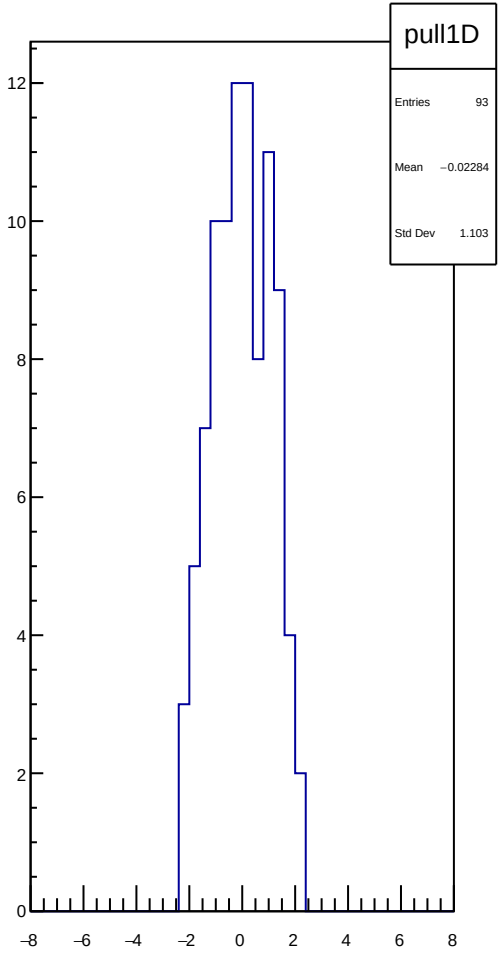

pull1D
Entries 93
Mean −0.04802
Std Dev 0.8848

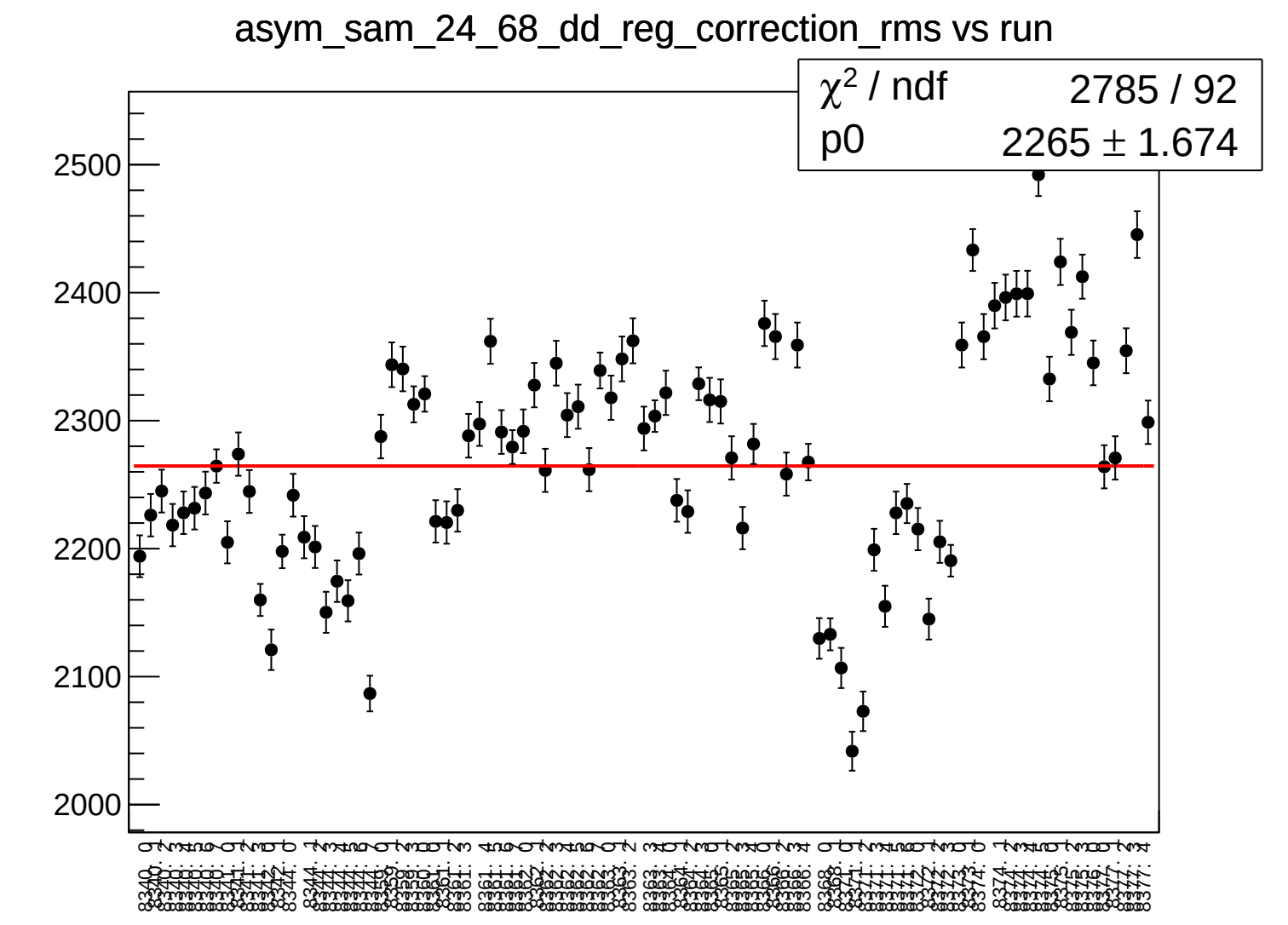

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.727e+05 / 92
p0 3.928e−11 ± 3.498e−14
0.25
0.2
0.15
0.1
0.05

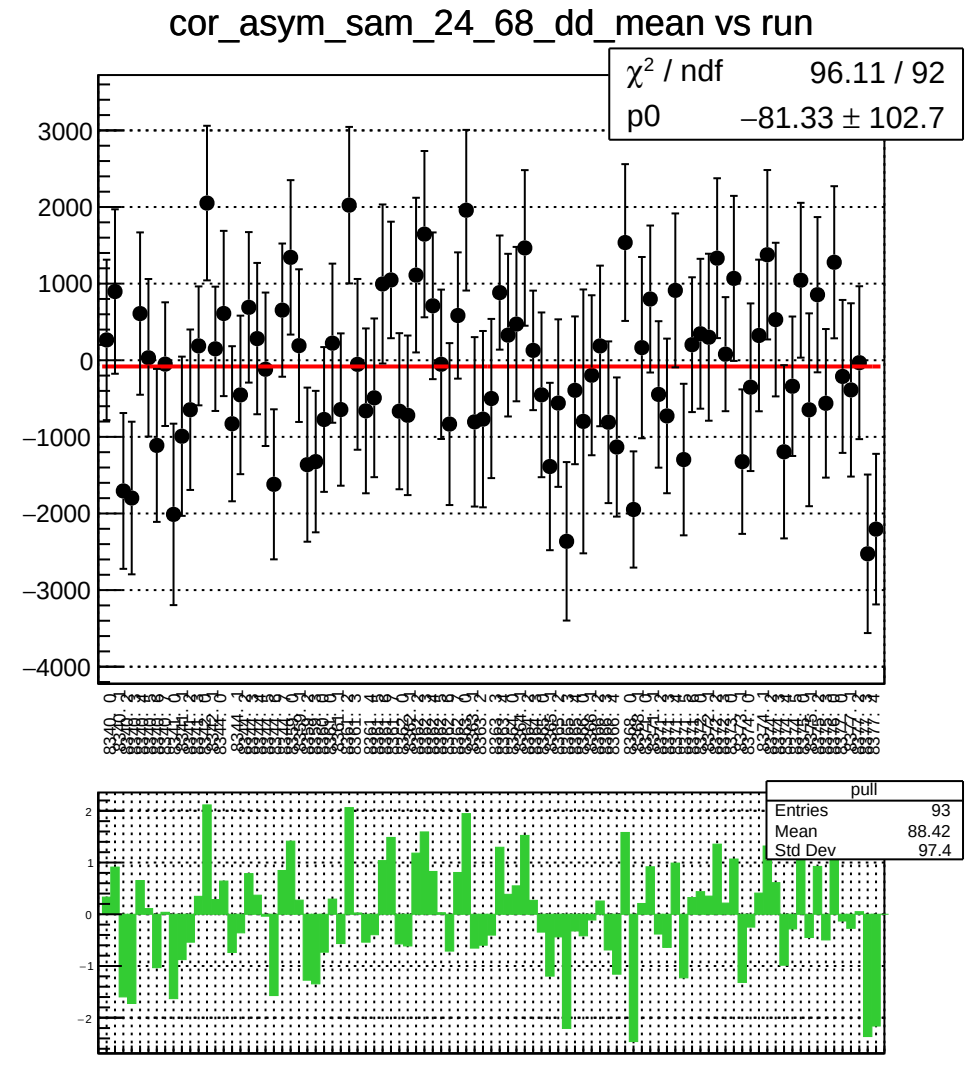

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.11 / 92
p0 −81.32 ± 102.7
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 88.43
Std Dev 97.4
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.009419
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

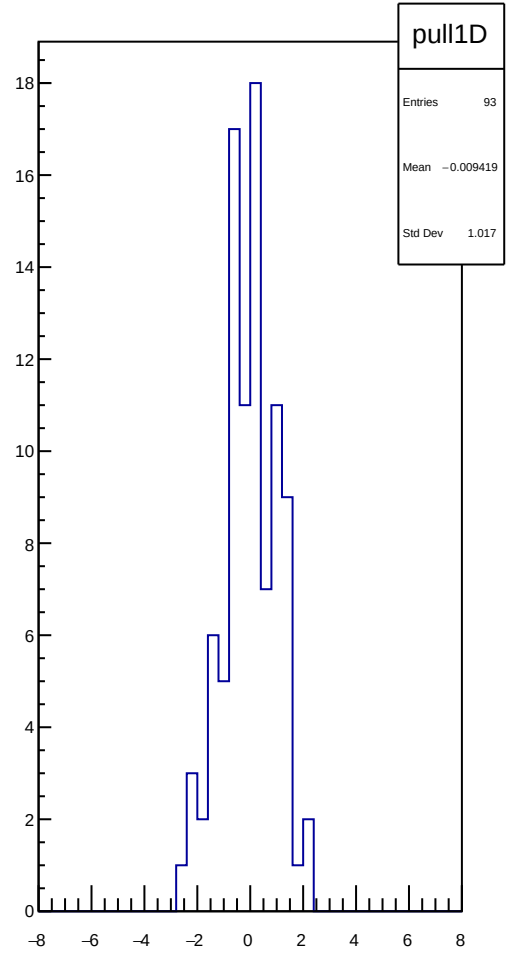

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7537 / 92
p0 98.15 ± 0.07263
170
160
150
140
130
120
110
100
90

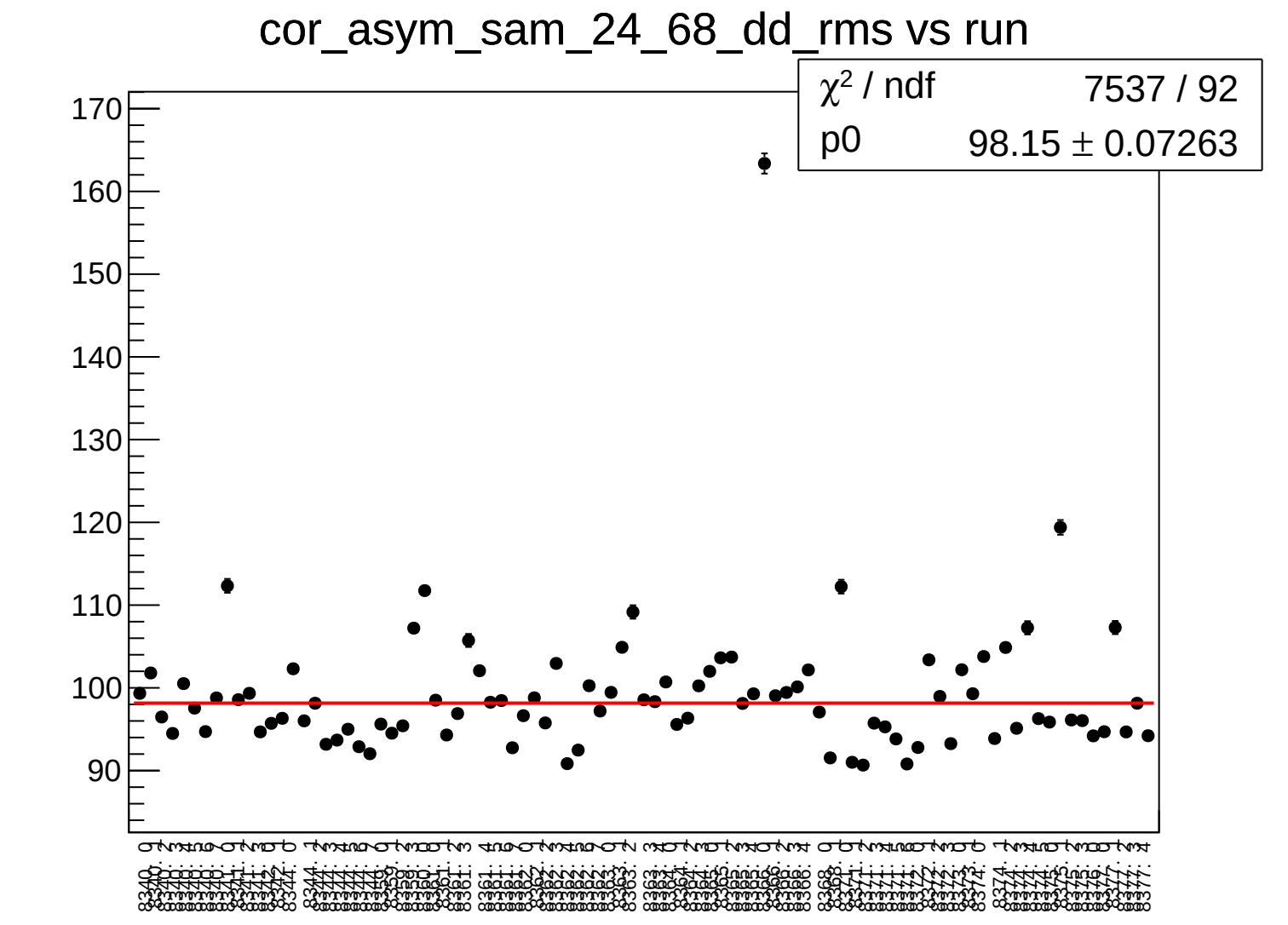

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 113.2 / 92
p0 −3901 ± 2367
pull
Entries 93
Mean −181.9
Std Dev 0

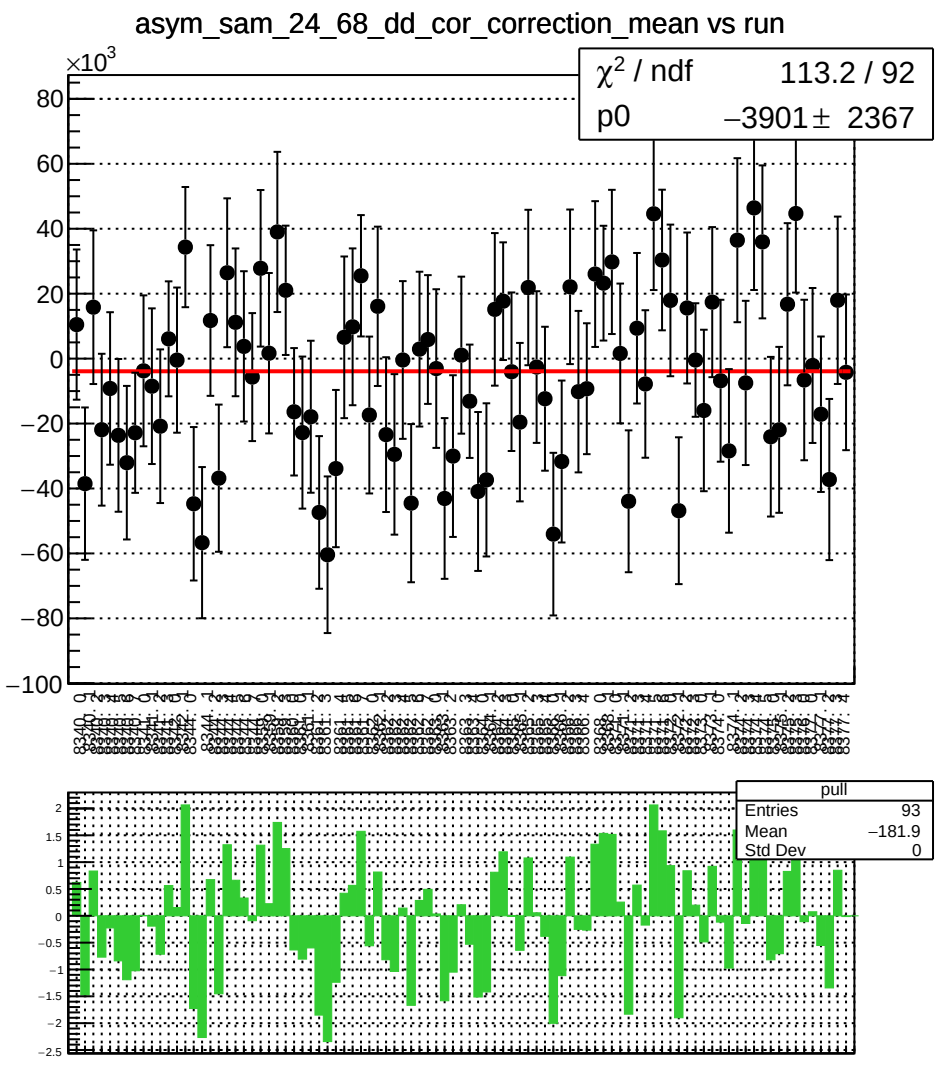

pull1D
Entries 93
Mean −0.02284
Std Dev 1.103

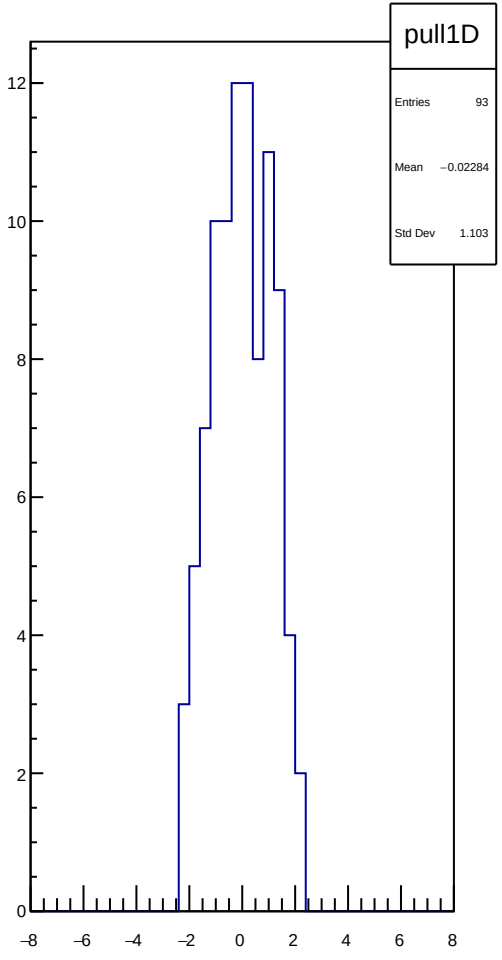

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2785 / 92
p0 2265 ± 1.674
2500
2400
2300
2200
2100
2000

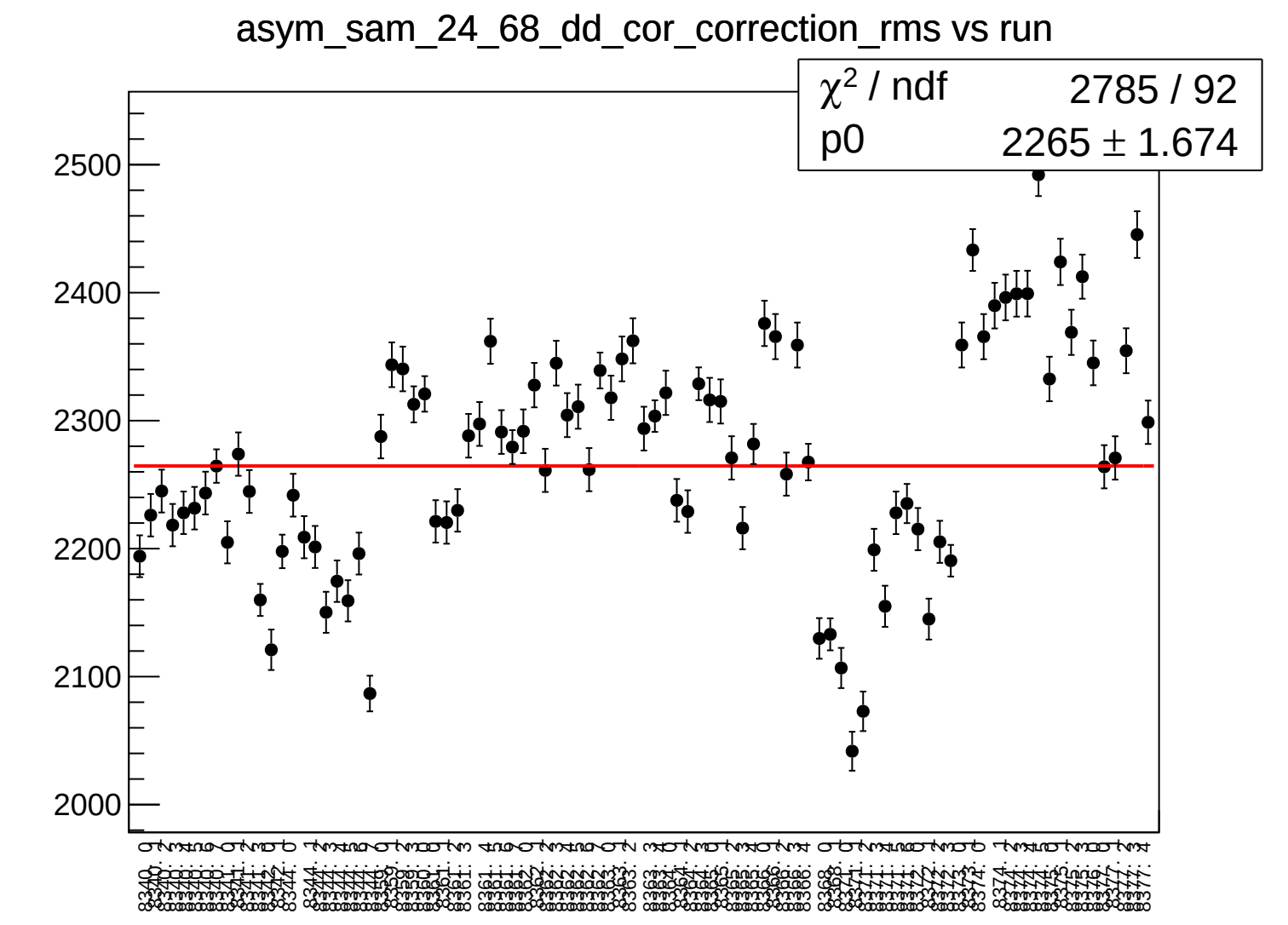

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.11 / 92
p0 −81.33 ± 102.7
pull
Entries 93
Mean 88.42
Std Dev 97.4

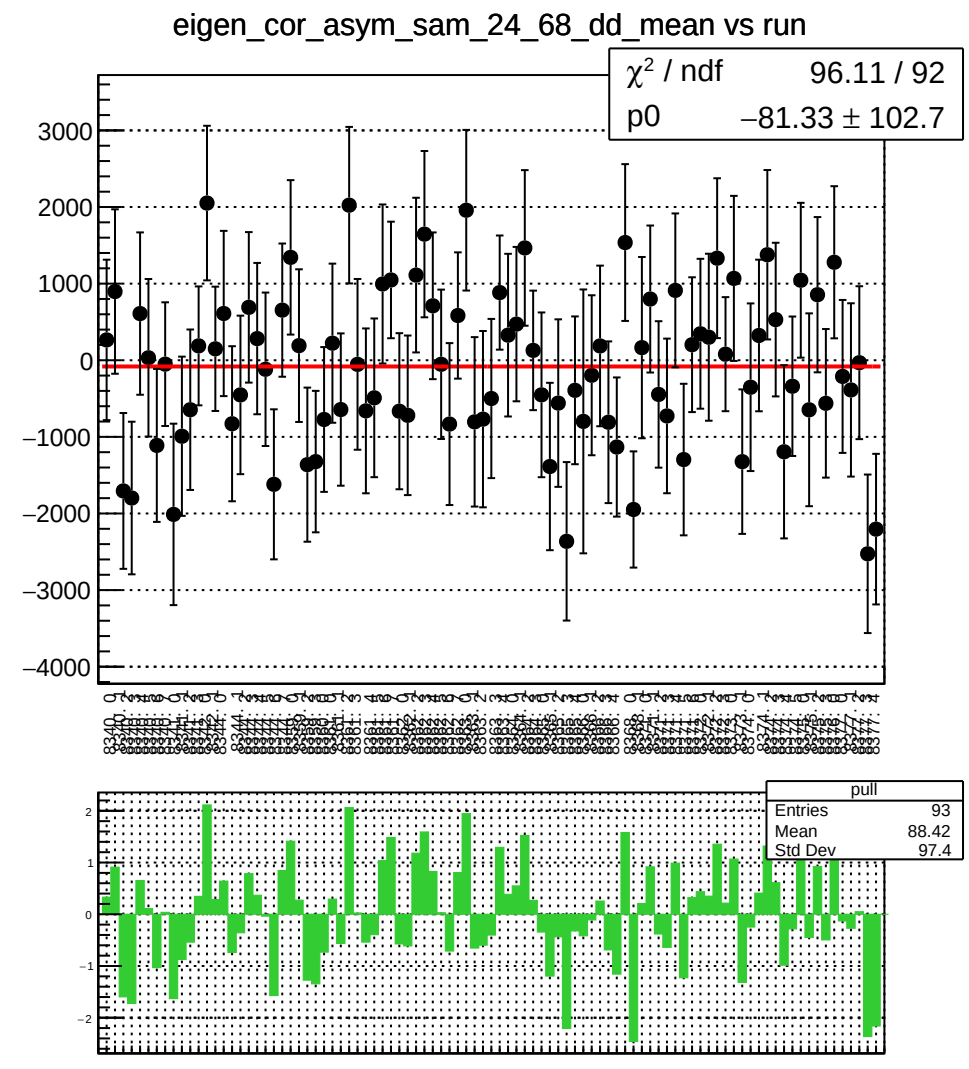

pull1D
Entries 93
Mean −0.009419
Std Dev 1.017

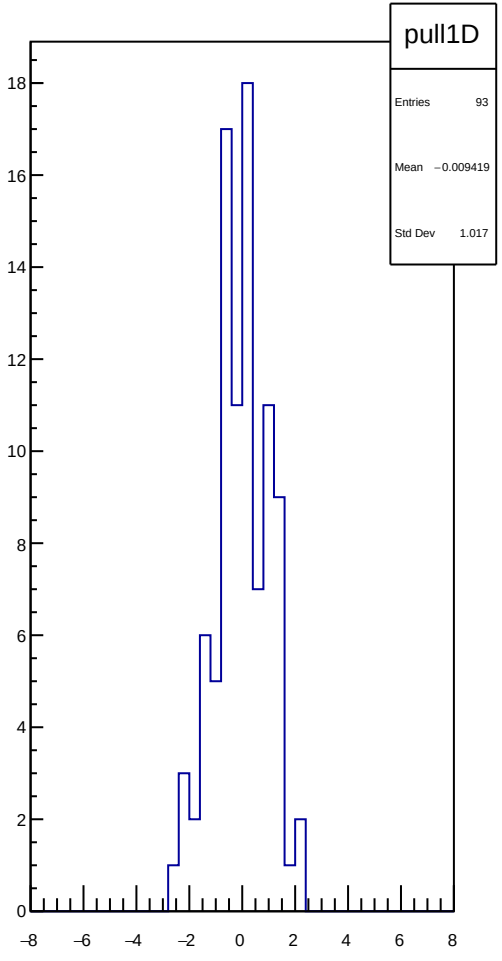

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7537 / 92
p0 98.15 ± 0.07263
170
160
150
140
130
120
110
100
90

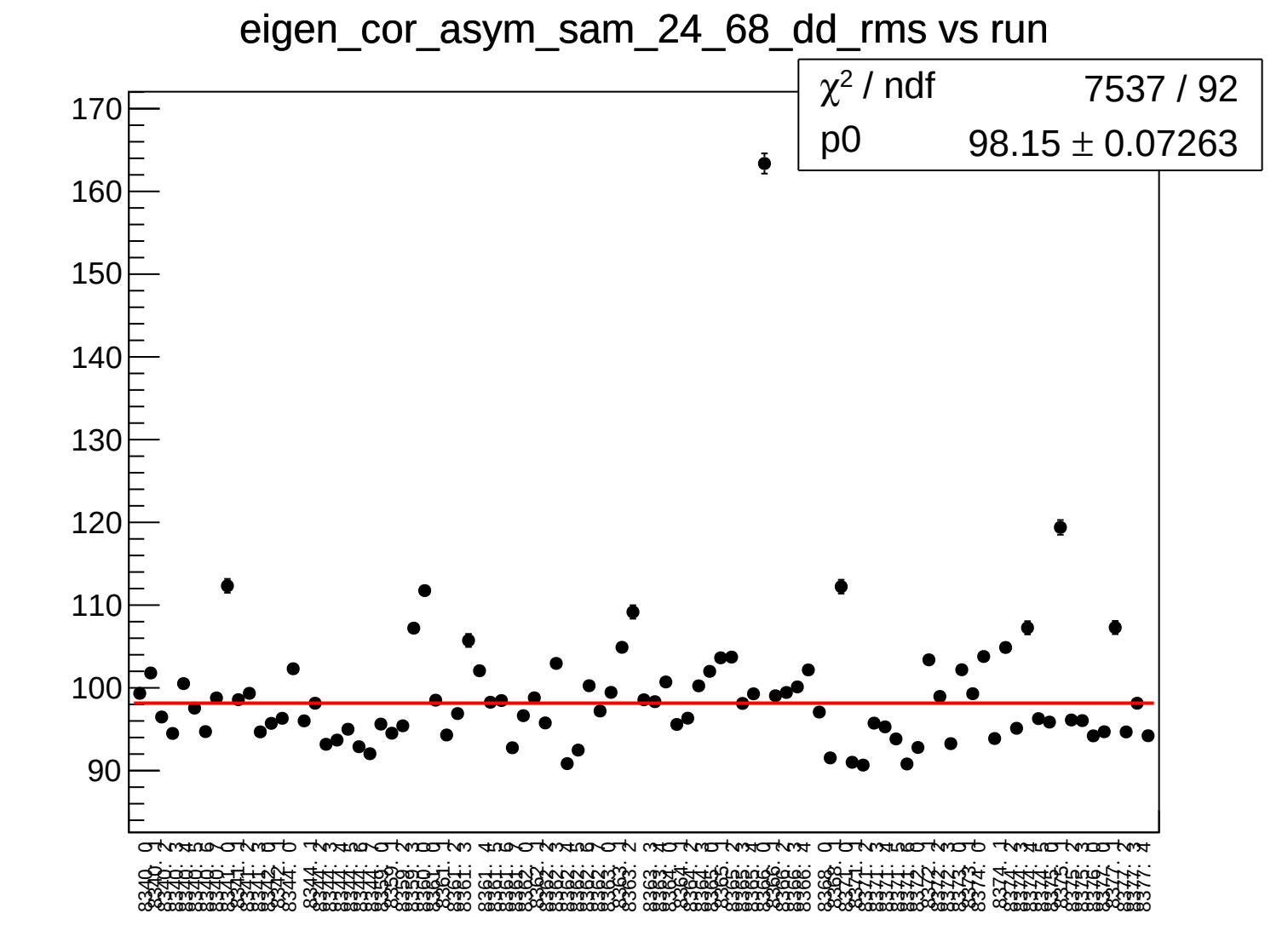

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 92
p0 −3901 ± 2367
pull
Entries 93
Mean −181.9
Std Dev 0

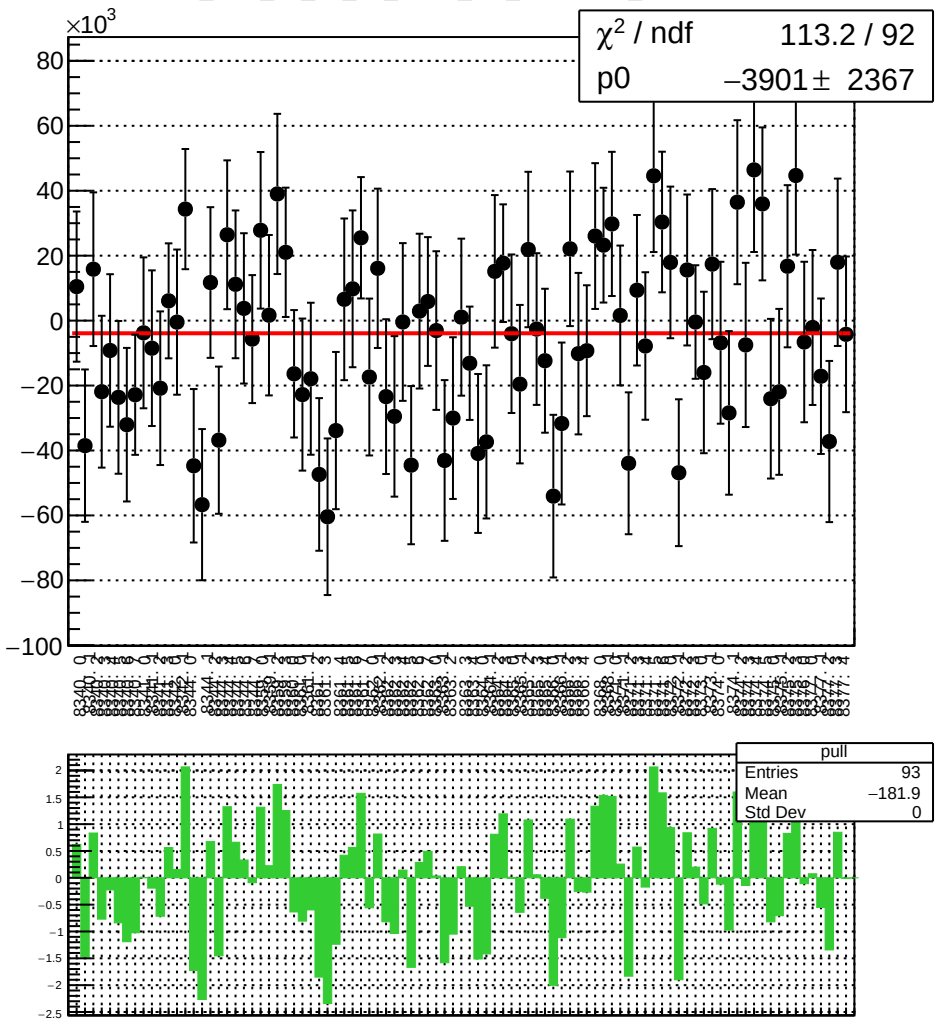

pull1D
Entries 93
Mean −0.02284
Std Dev 1.103

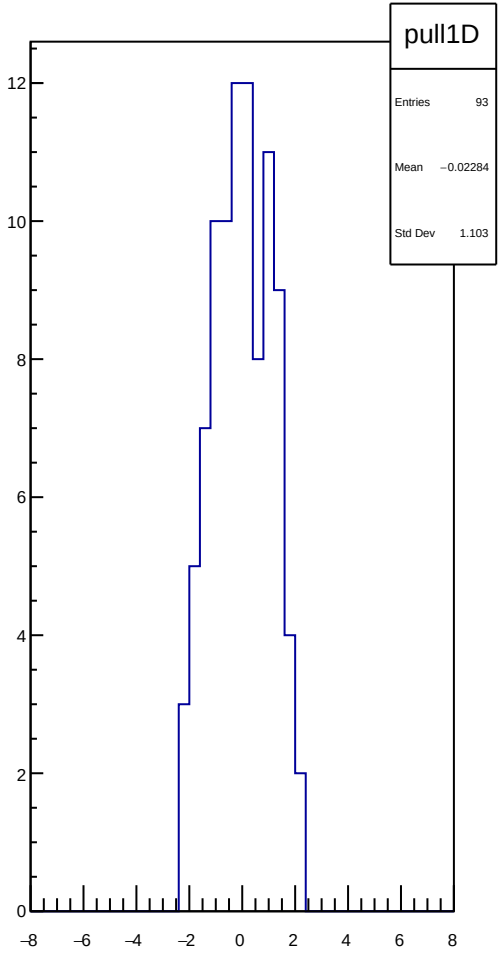

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2785 / 92
p0 2265 ± 1.674
2500
2400
2300
2200
2100
2000

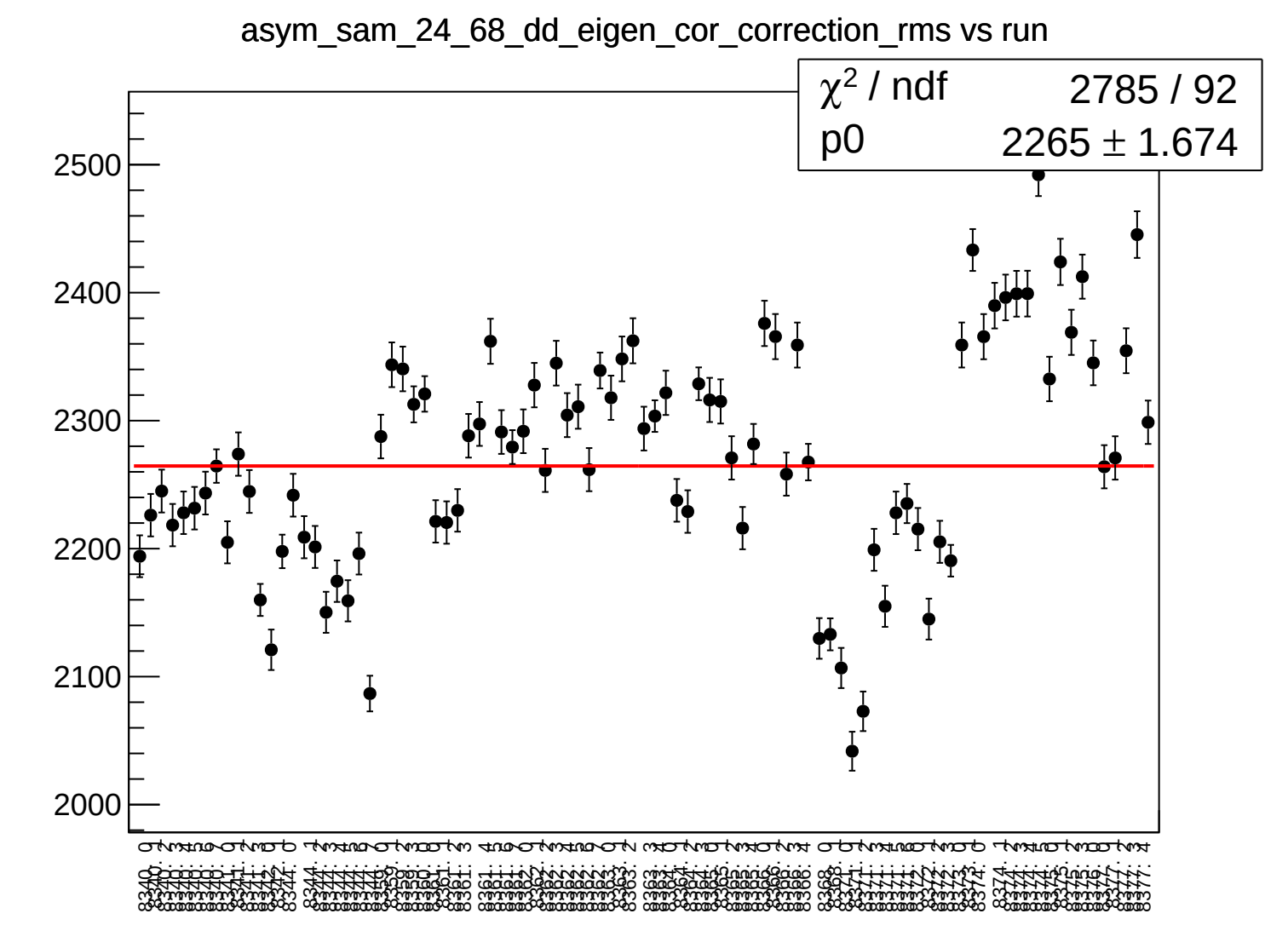

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 96.11 / 92
p0 −81.33 ± 102.7
pull
Entries 93
Mean 88.42
Std Dev 97.4

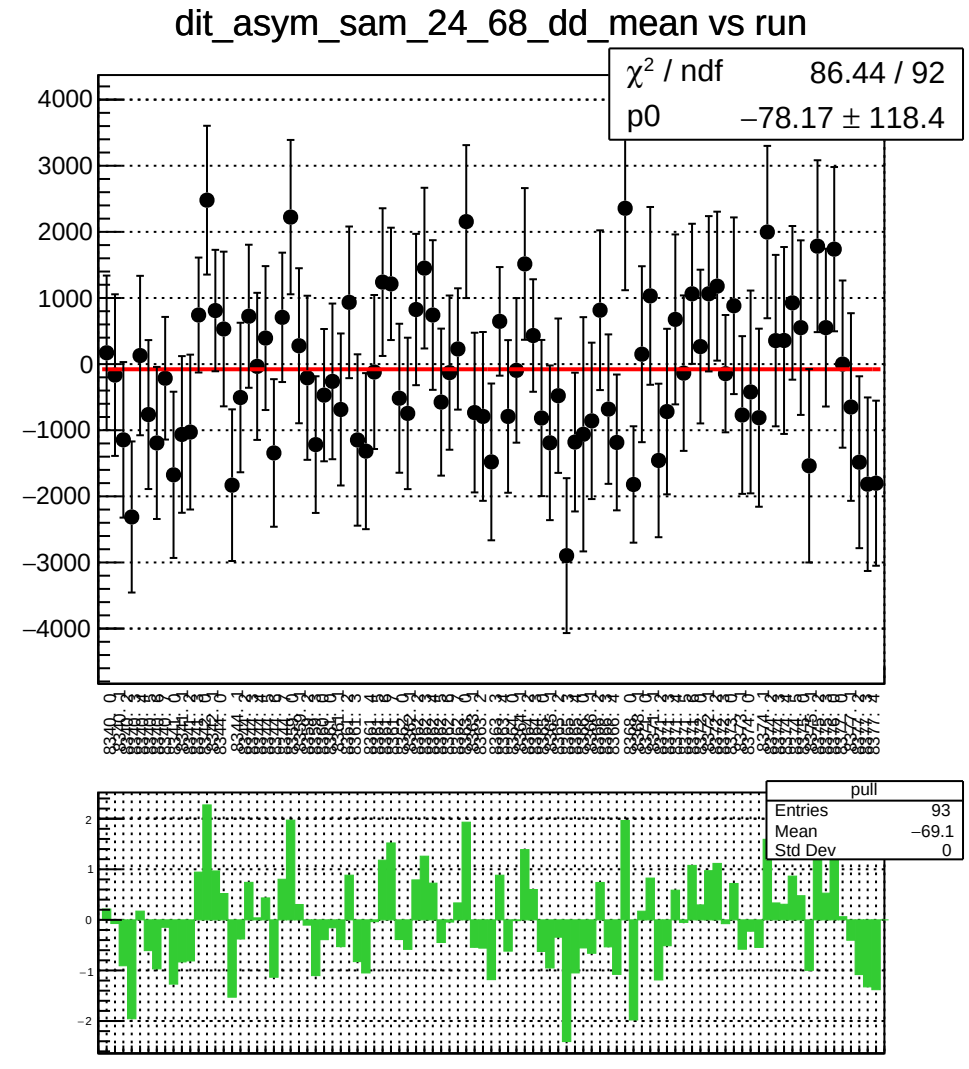

pull1D
Entries 93
Mean −0.009419
Std Dev 1.017

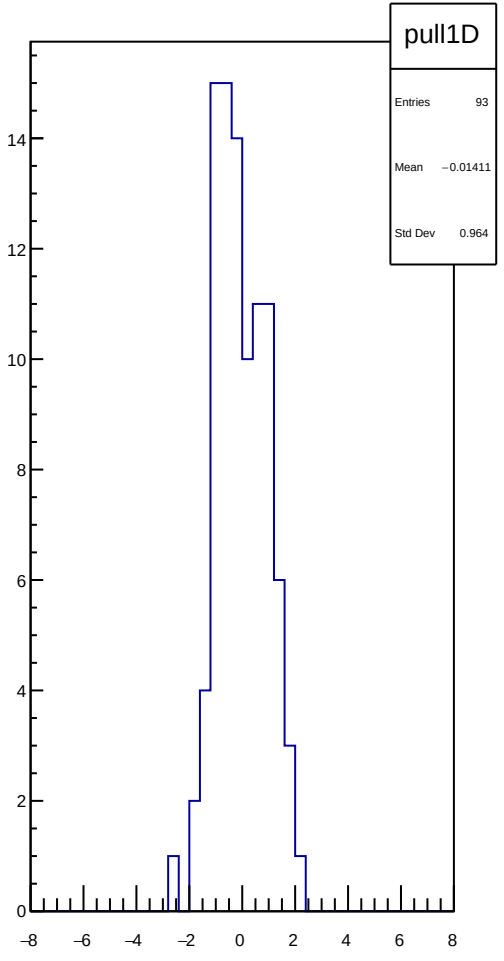

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 7537 / 92
p0 98.15 ± 0.07263
170
160
150
140
130
120
110
100
90

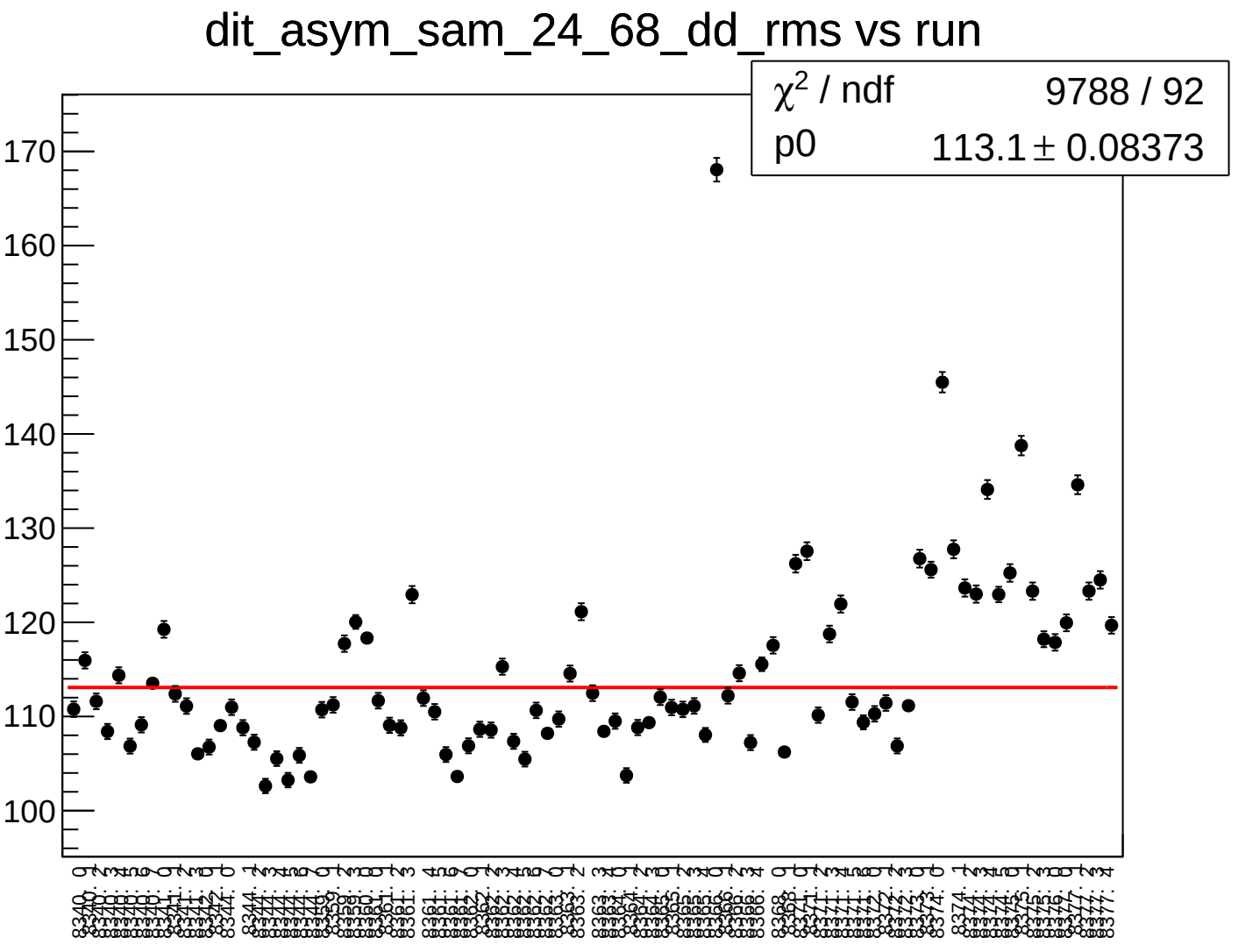

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 113.2 / 92
p0 −3901 ± 2367
pull
Entries 93
Mean −181.9
Std Dev 0

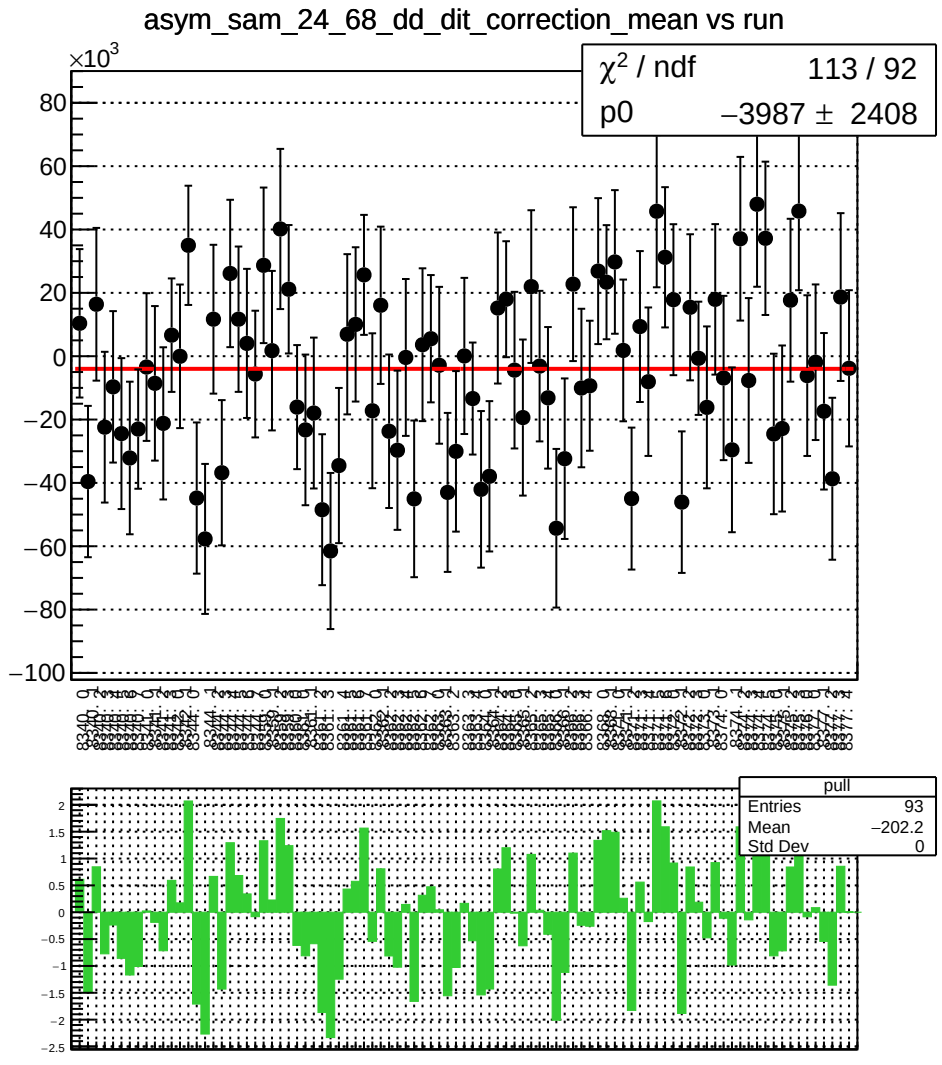

pull1D
Entries 93
Mean −0.02284
Std Dev 1.103

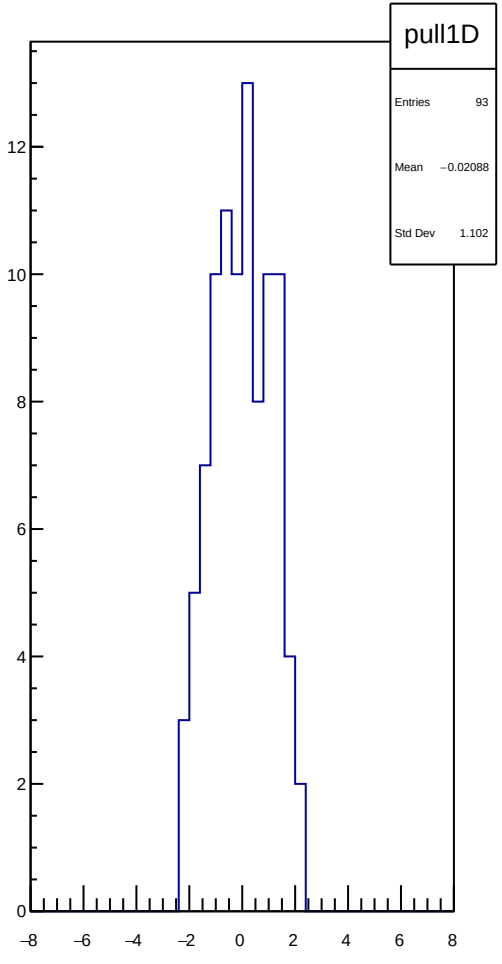

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2785 / 92
p0 2265 ± 1.674
2500
2400
2300
2200
2100
2000

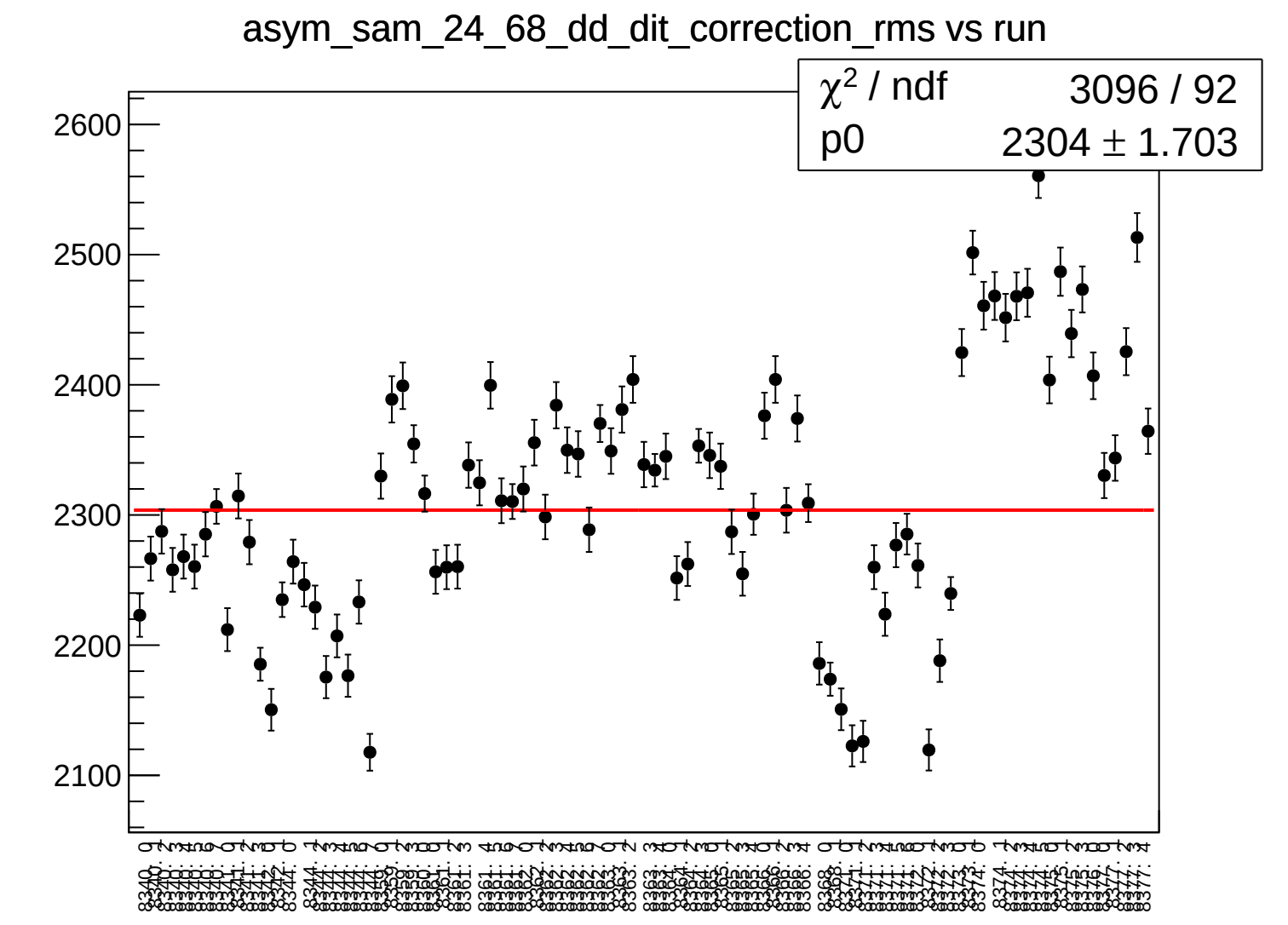

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.44 / 92
p0 −78.17 ± 118.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean −69.1
Std Dev 0
2
1
0
−1
−2

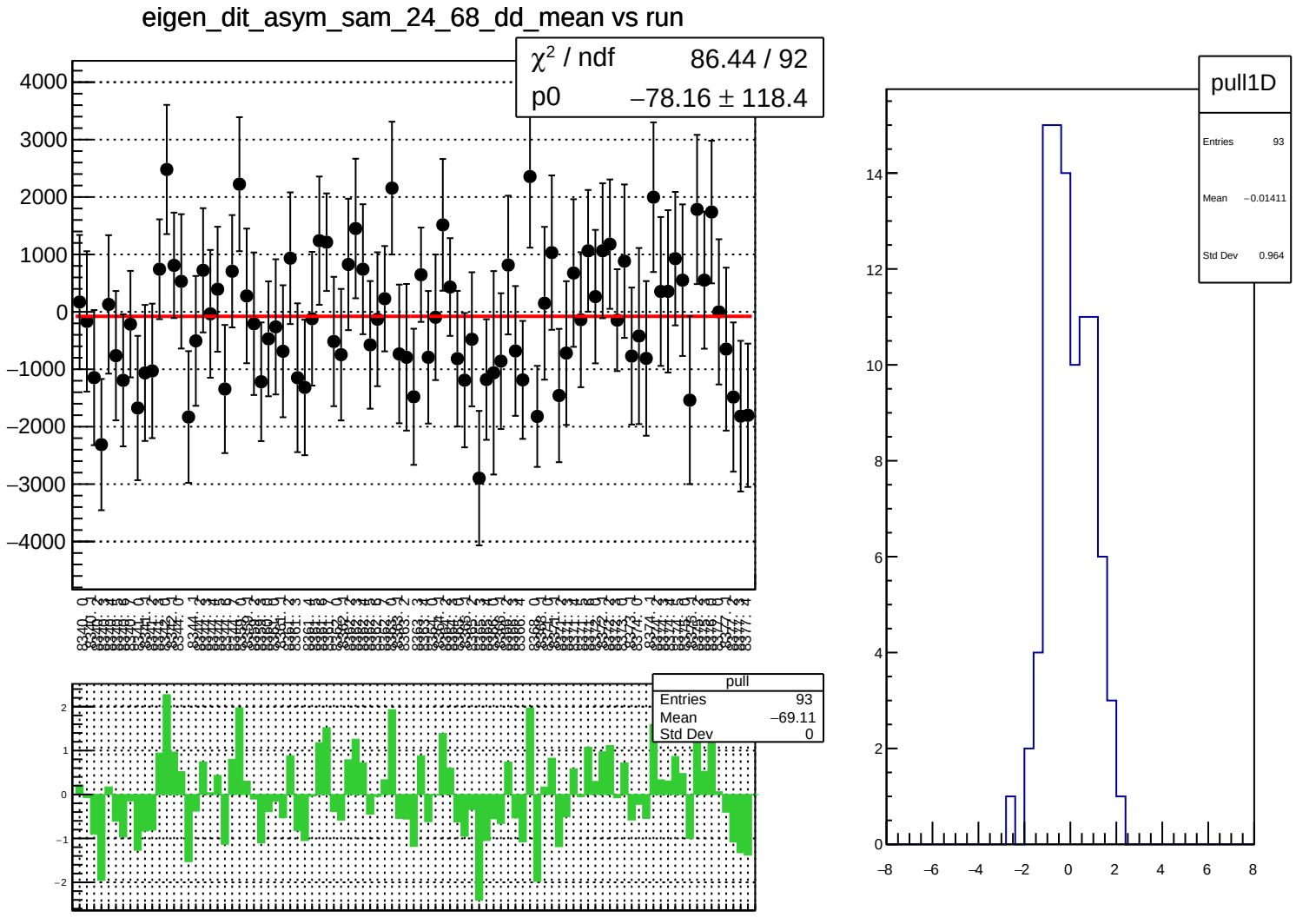

pull1D
Entries 93
Mean −0.01411
Std Dev 0.964
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

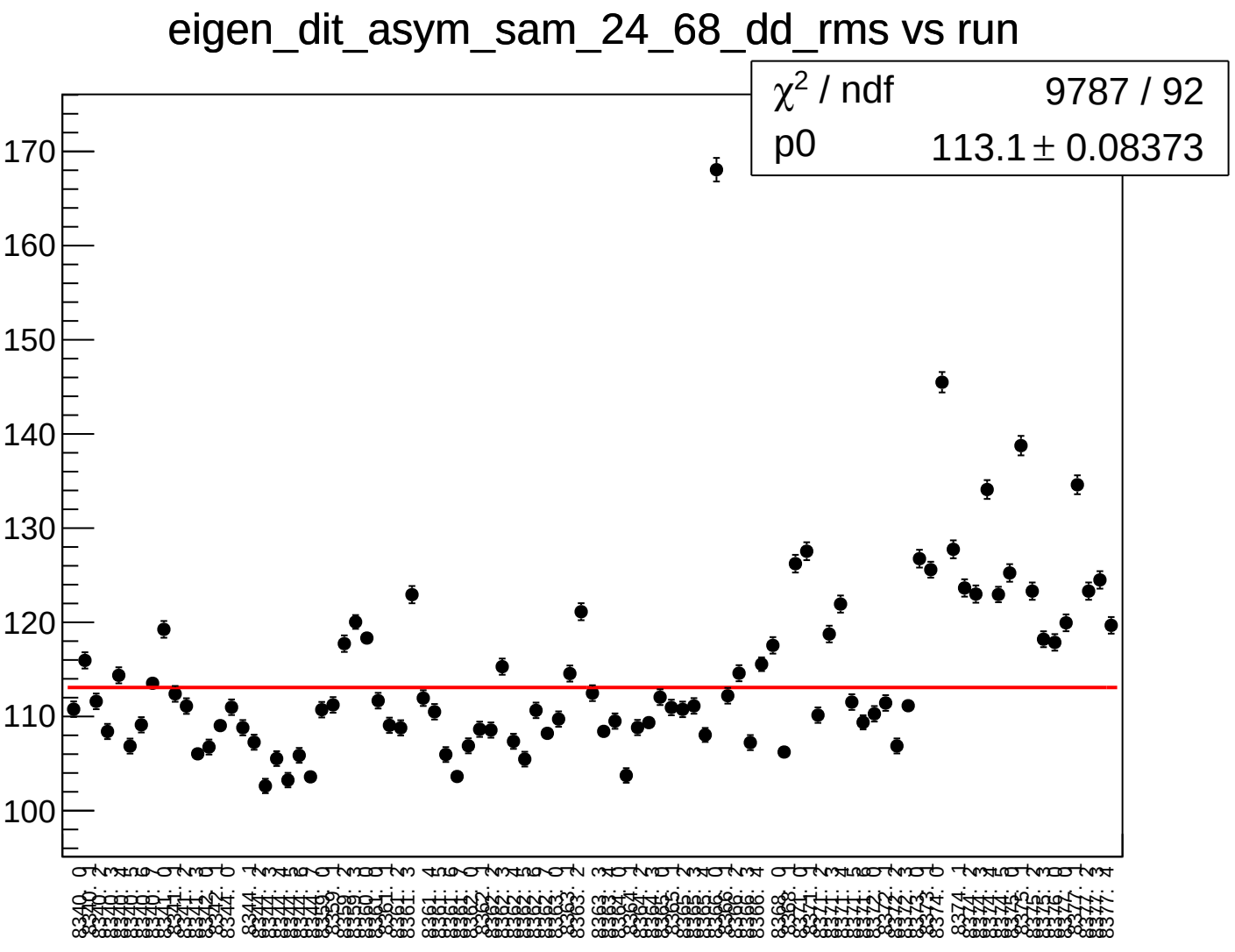

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9788 / 92
p0 113.1 ± 0.08373
170
160
150
140
130
120
110
100

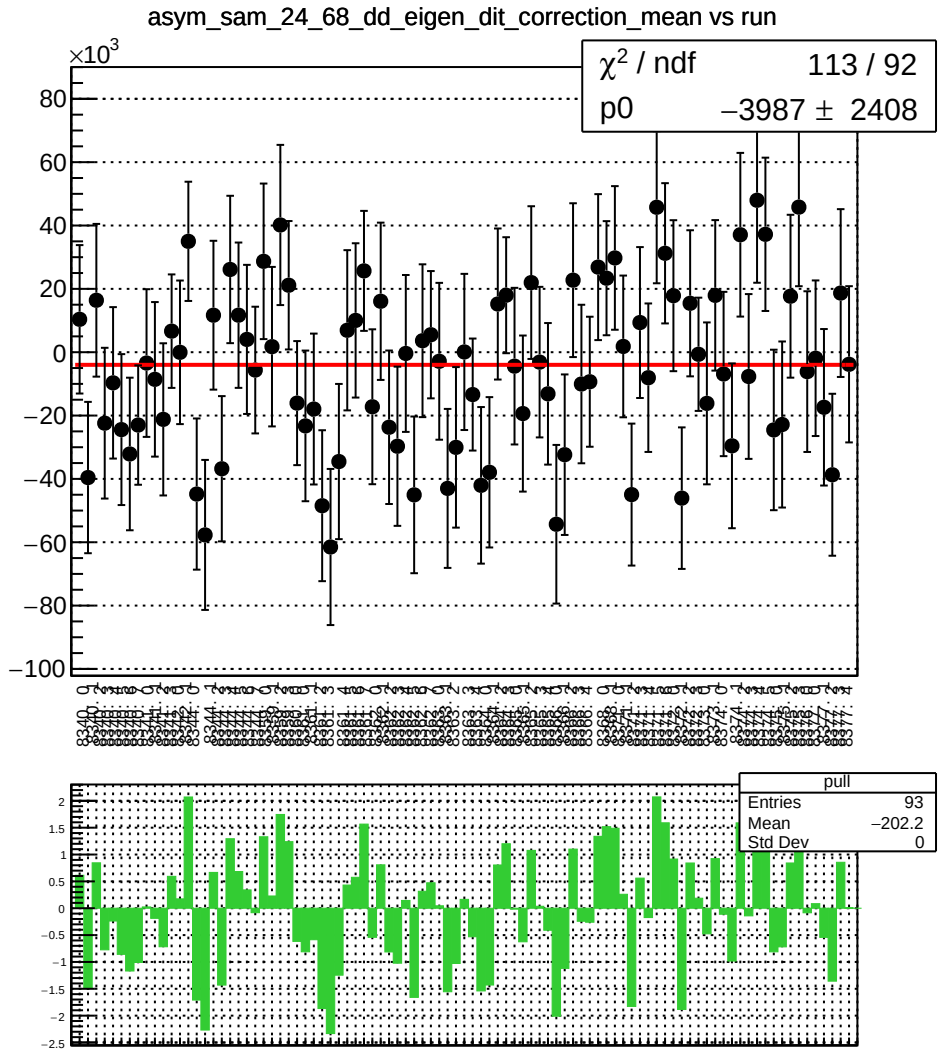

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 92
p0 −3987 ± 2408
pull
Entries 93
Mean −202.2
Std Dev 0

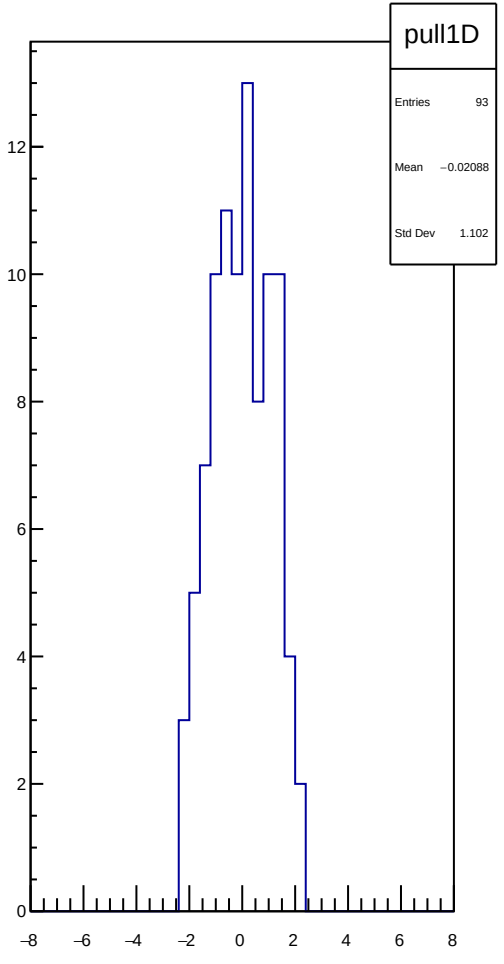

pull1D
Entries 93
Mean −0.02088
Std Dev 1.102

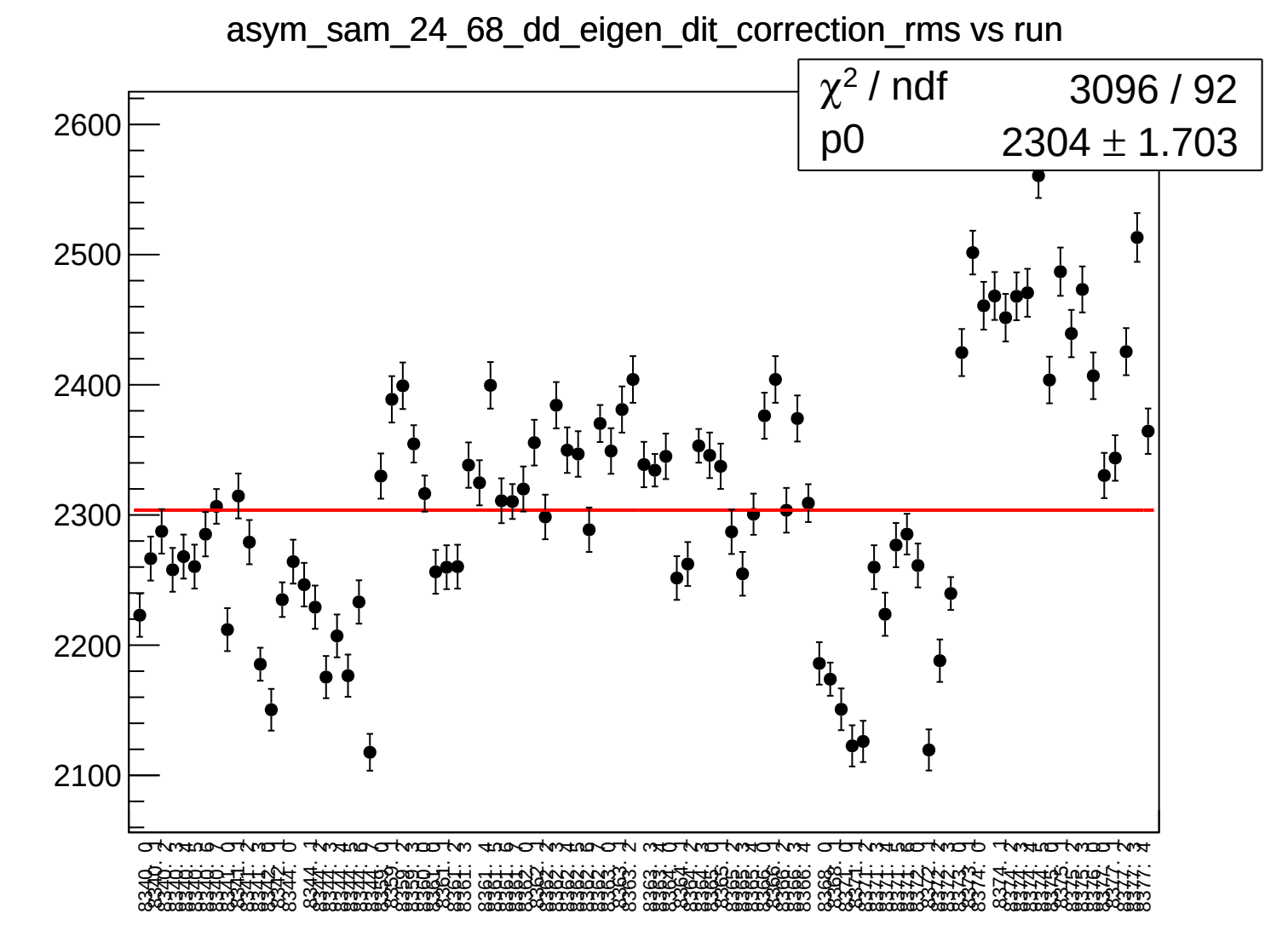

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3096 / 92
p0 2304 ± 1.703
2600
2500
2400
2300
2200
2100

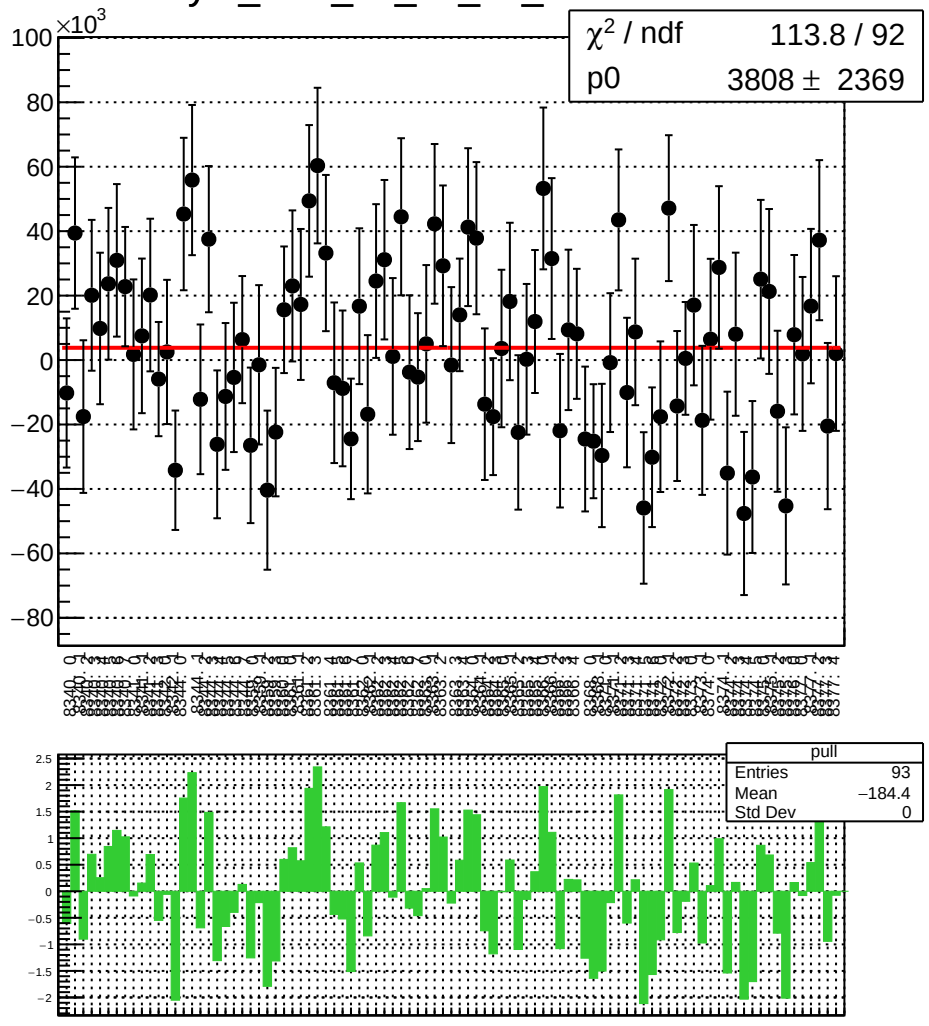

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 86.44 / 92
p0 −78.16 ± 118.4
pull
Entries 93
Mean −69.11
Std Dev 0
pull1D
Entries 93
Mean −0.01411
Std Dev 0.964

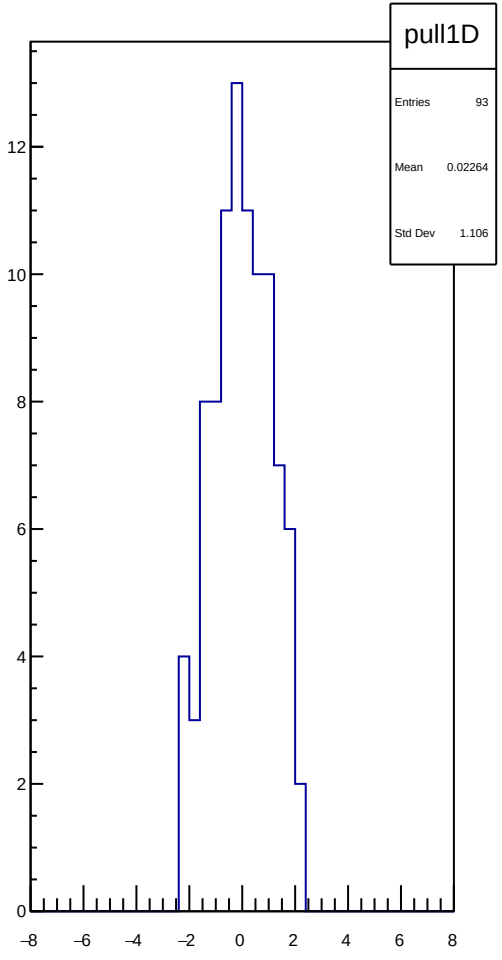

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9787 / 92
p0 113.1 ± 0.08373
170
160
150
140
130
120
110
100

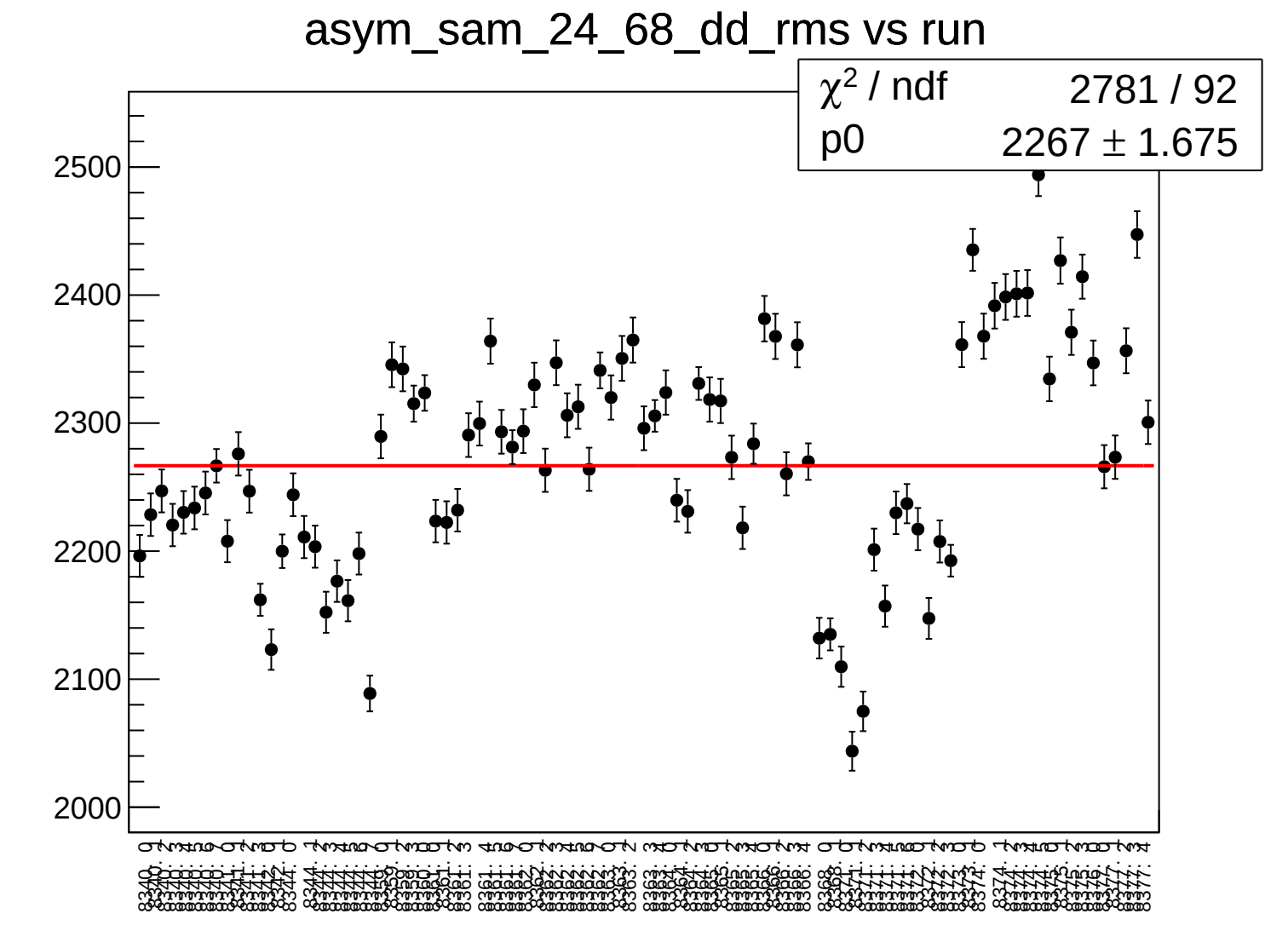

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 113 / 92
p0 −3987 ± 2408
pull
Entries 93
Mean −202.2
Std Dev 0

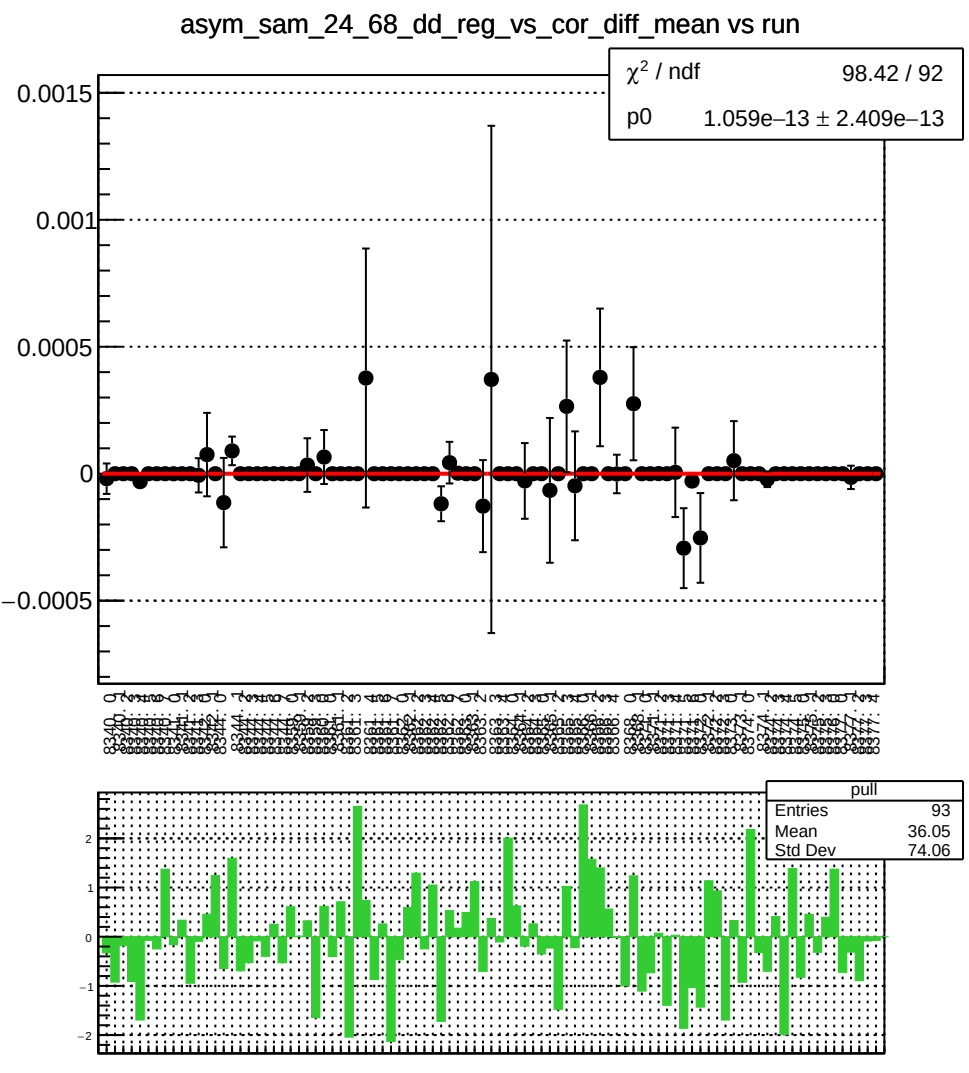

pull1D
Entries 93
Mean −0.02088
Std Dev 1.102

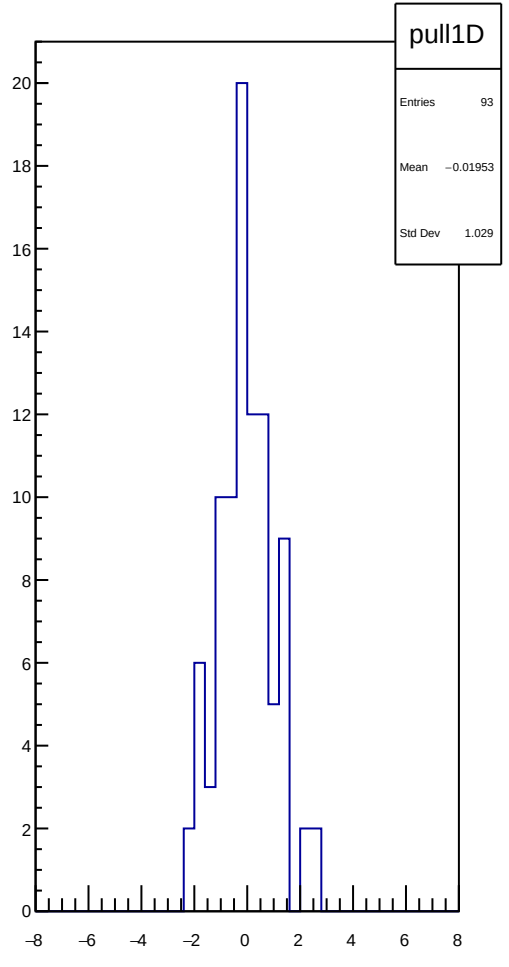

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3096 / 92
p0 2304 ± 1.703
2600
2500
2400
2300
2200
2100

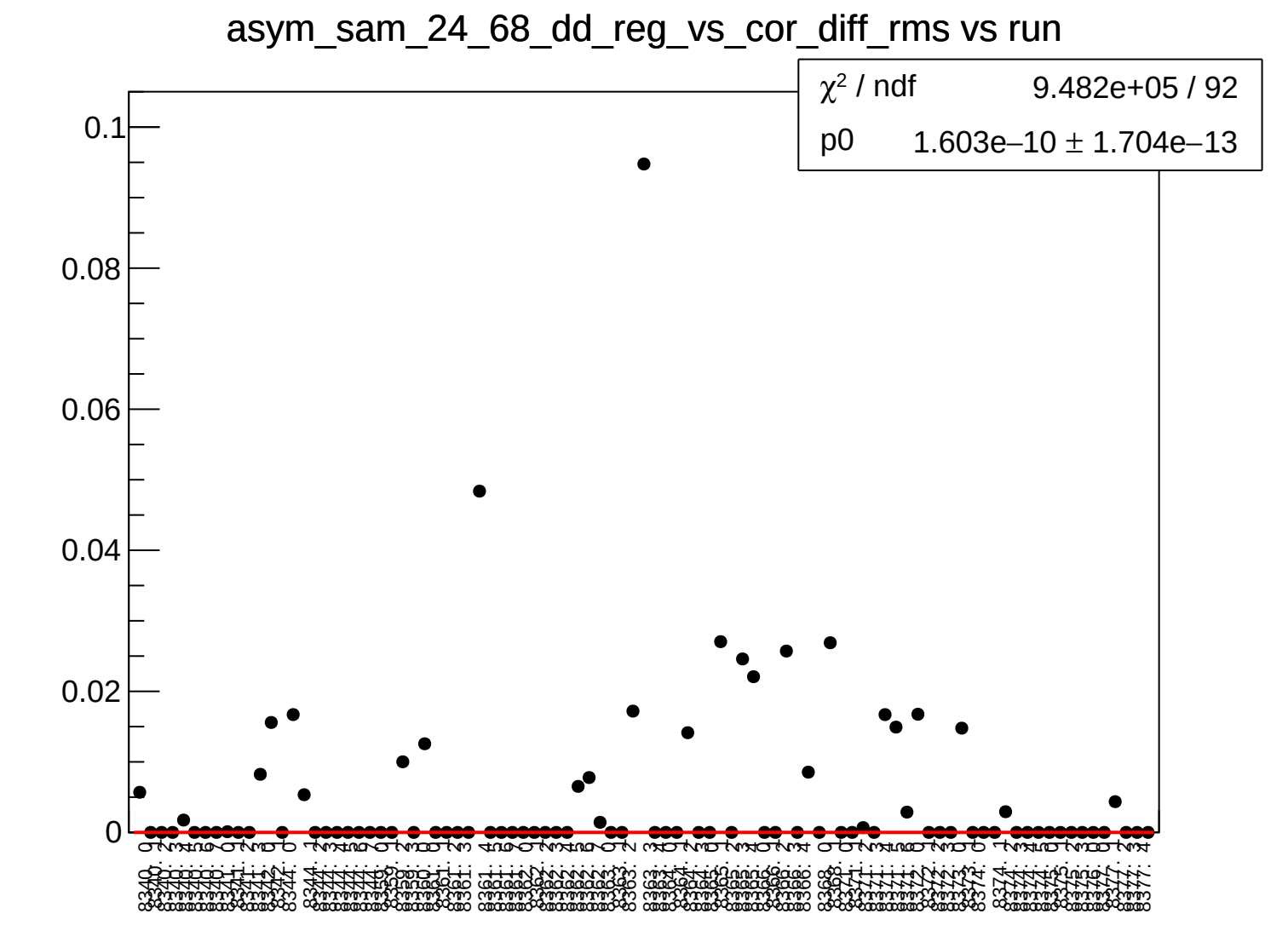

asym_sam_24_68_dd_mean vs run
×10^3
χ² / ndf 113.8 / 92
p0 3808 ± 2369
pull
Entries 93
Mean −184.4
Std Dev 0

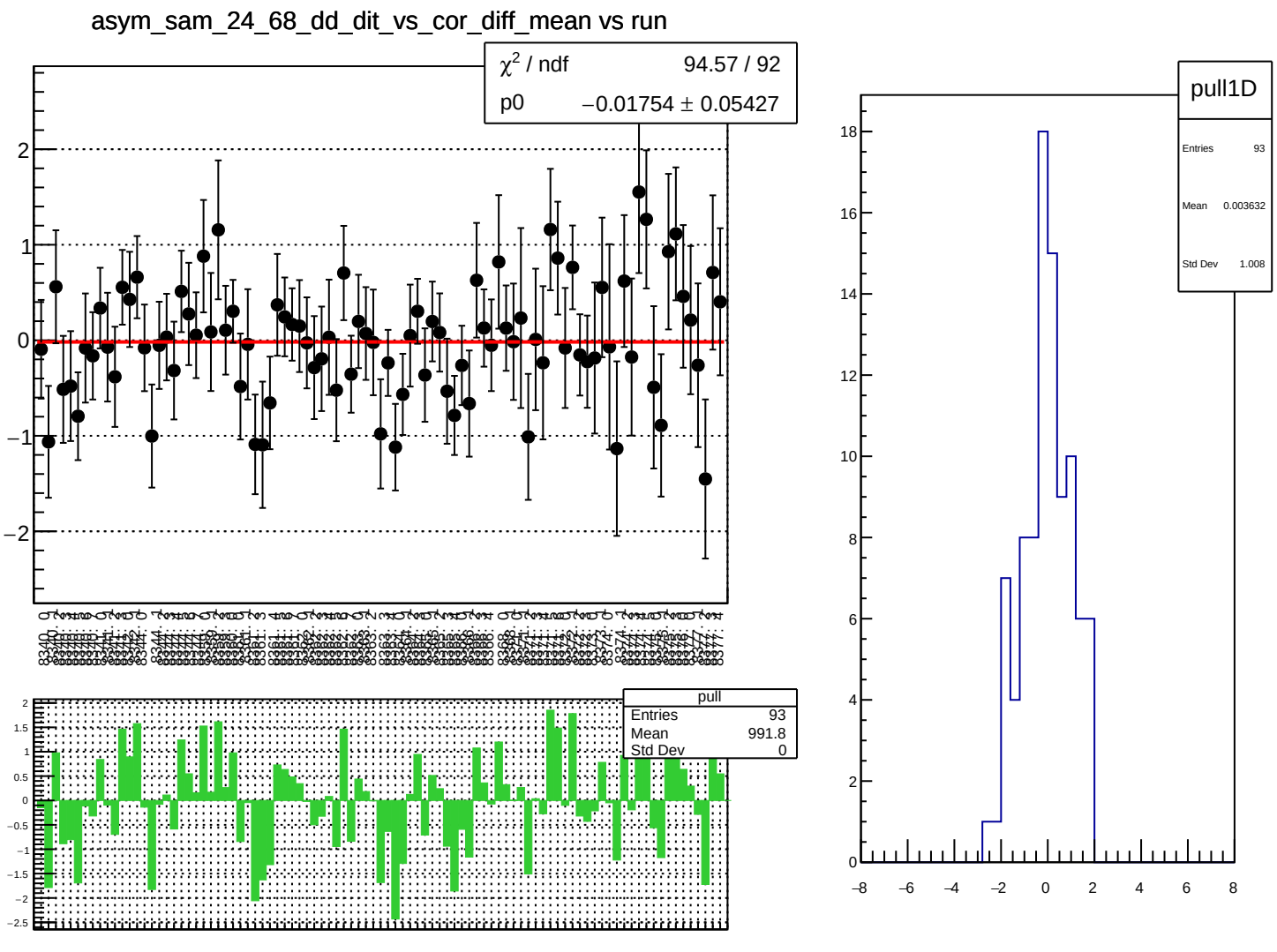

pull1D
Entries 93
Mean 0.02264
Std Dev 1.106

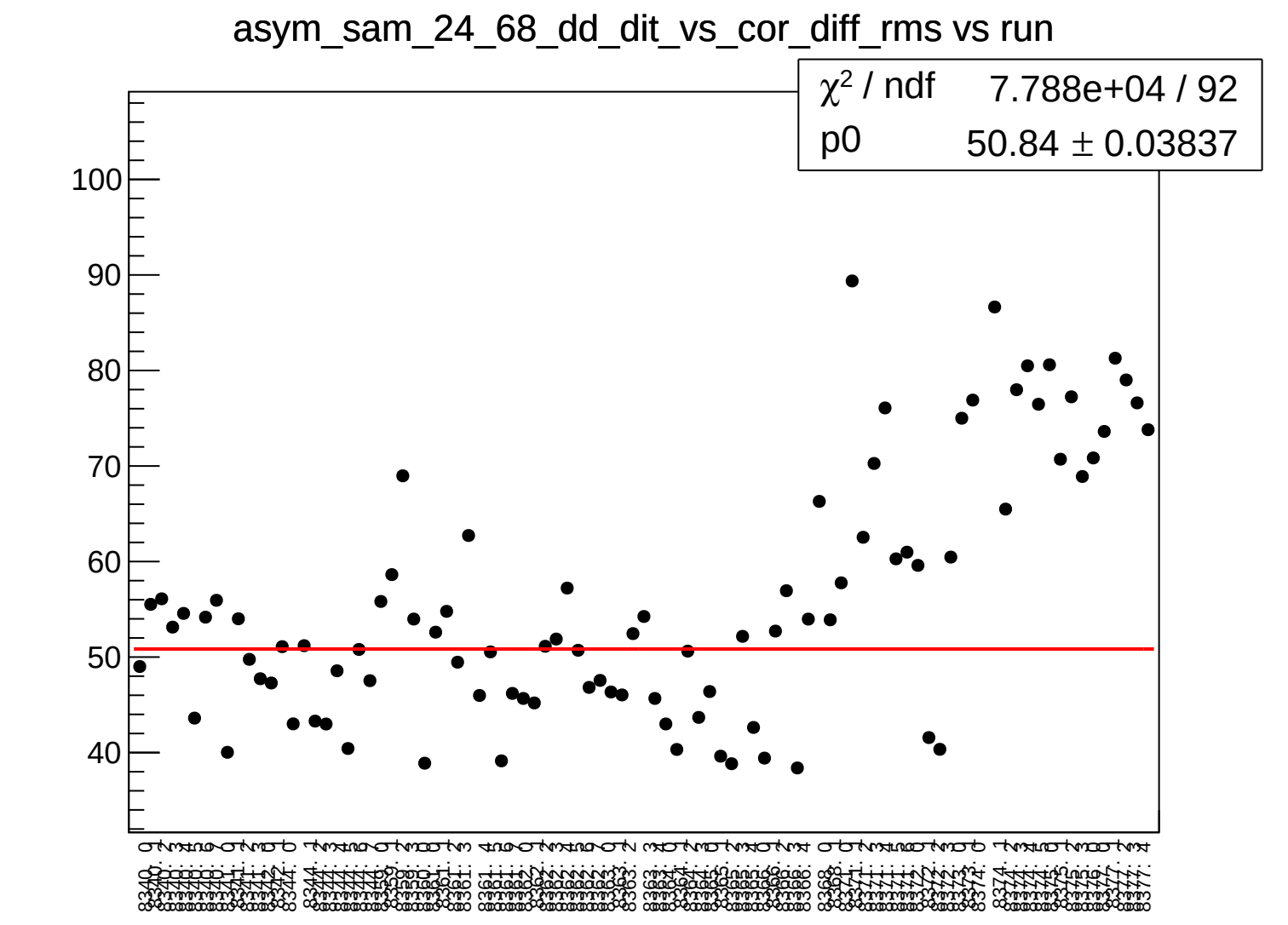

asym_sam_24_68_dd_rms vs run
χ² / ndf 2781 / 92
p0 2267 ± 1.675
2500
2400
2300
2200
2100
2000

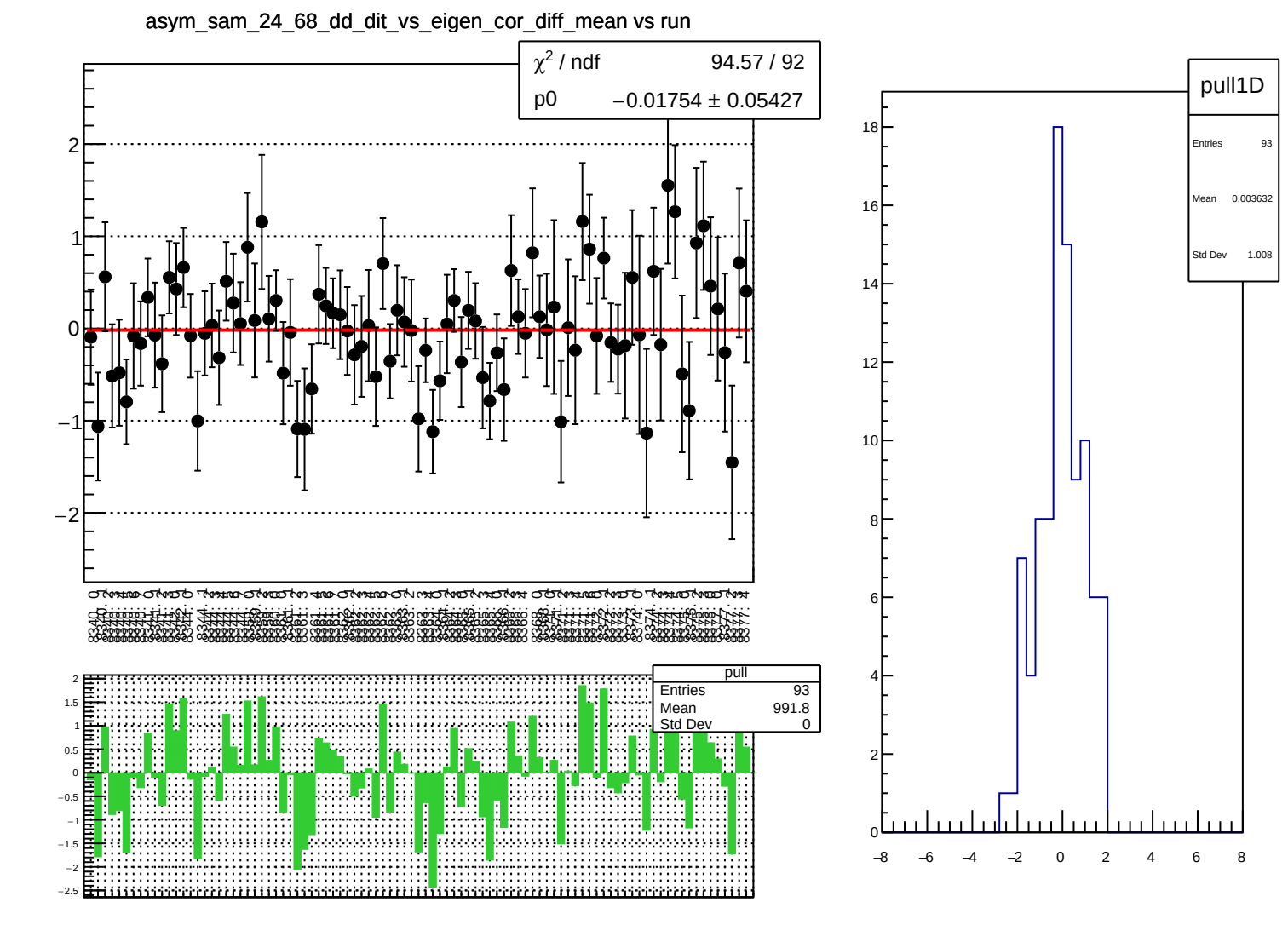

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.42 / 92
p0 1.059e−13 ± 2.409e−13
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 93
Mean 36.05
Std Dev 74.06
2
1
0
−1
−2

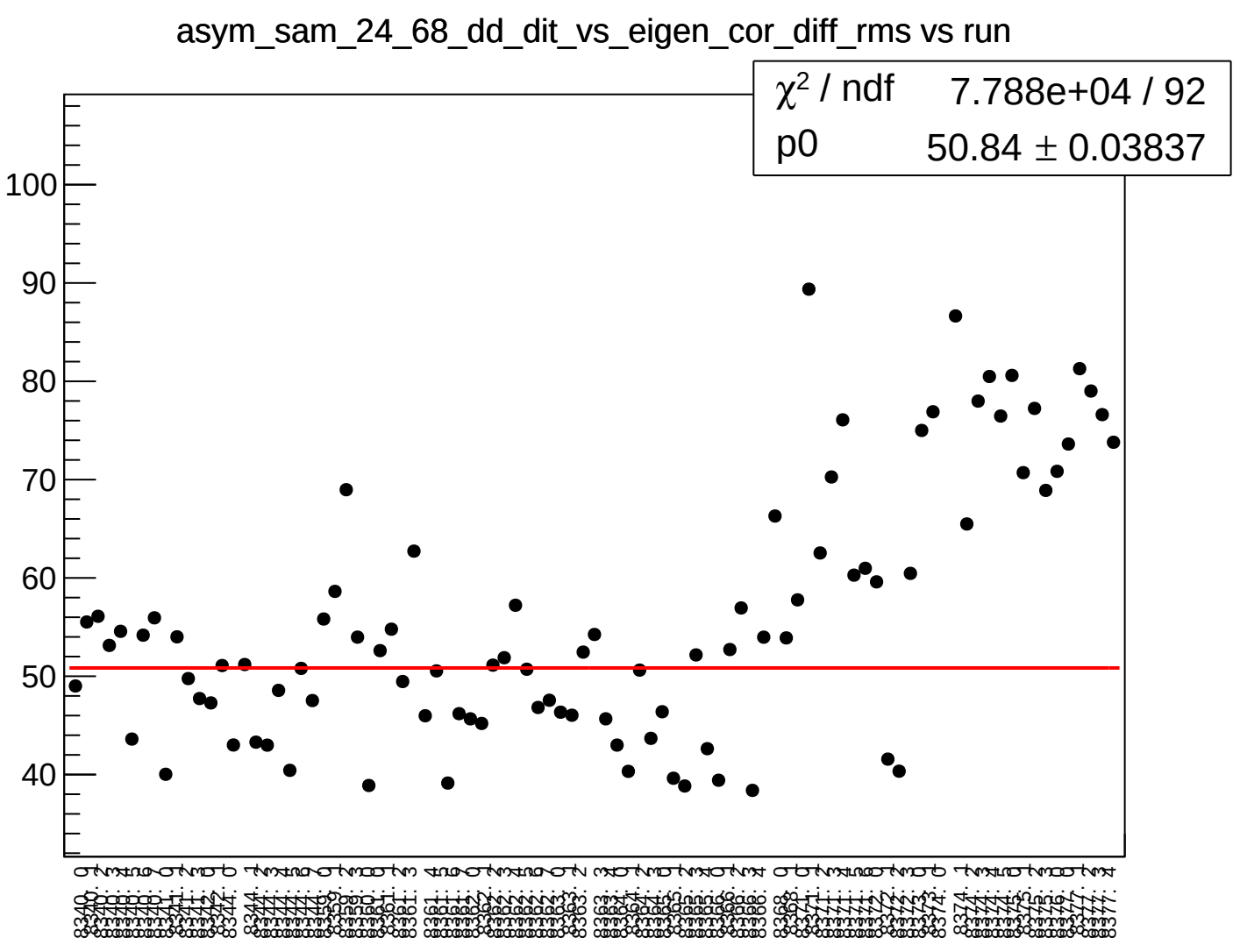

pull1D
Entries 93
Mean −0.01953
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

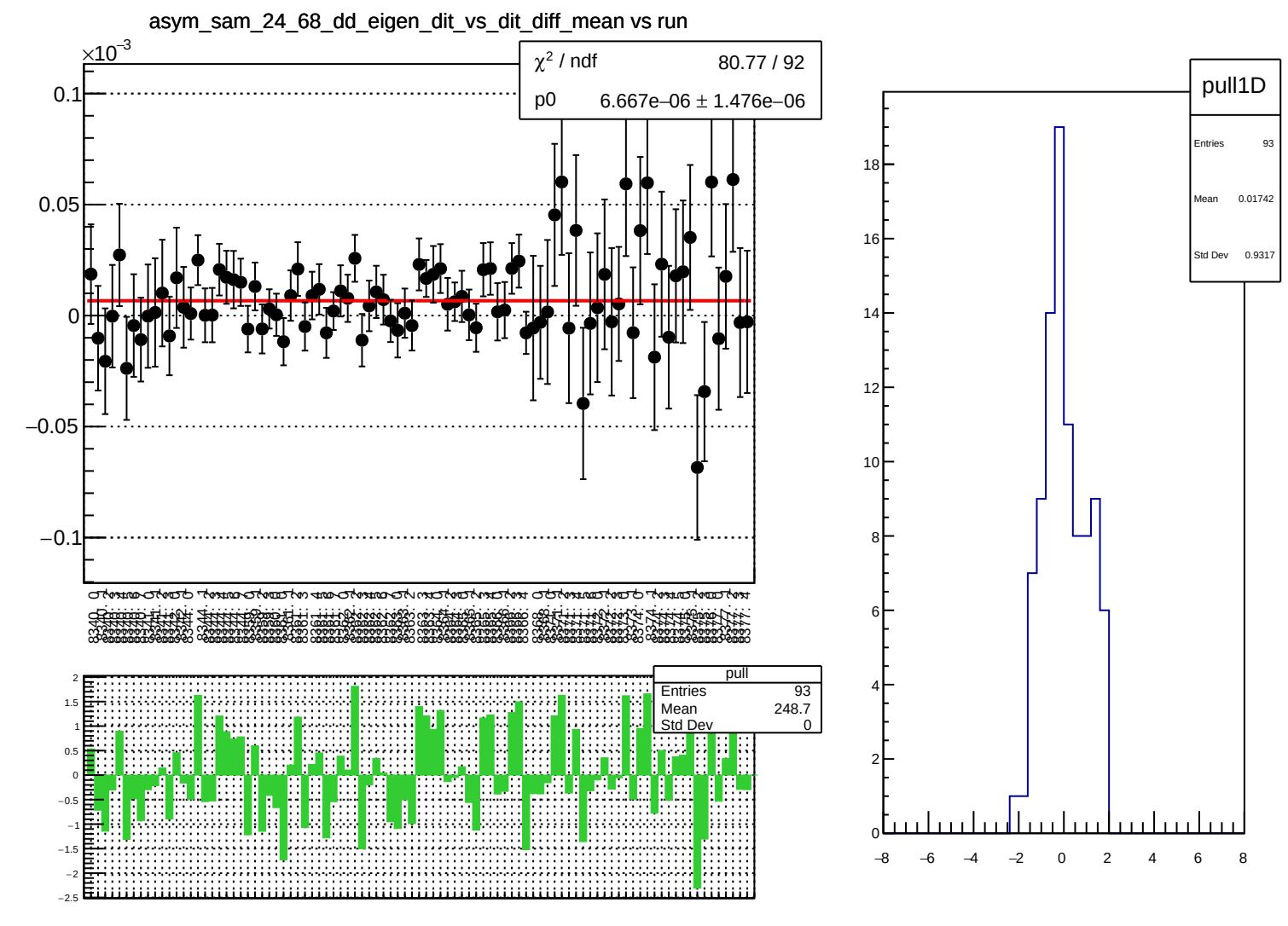

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.482e+05 / 92
p0 1.603e−10 ± 1.704e−13
0.1
0.08
0.06
0.04
0.02
0

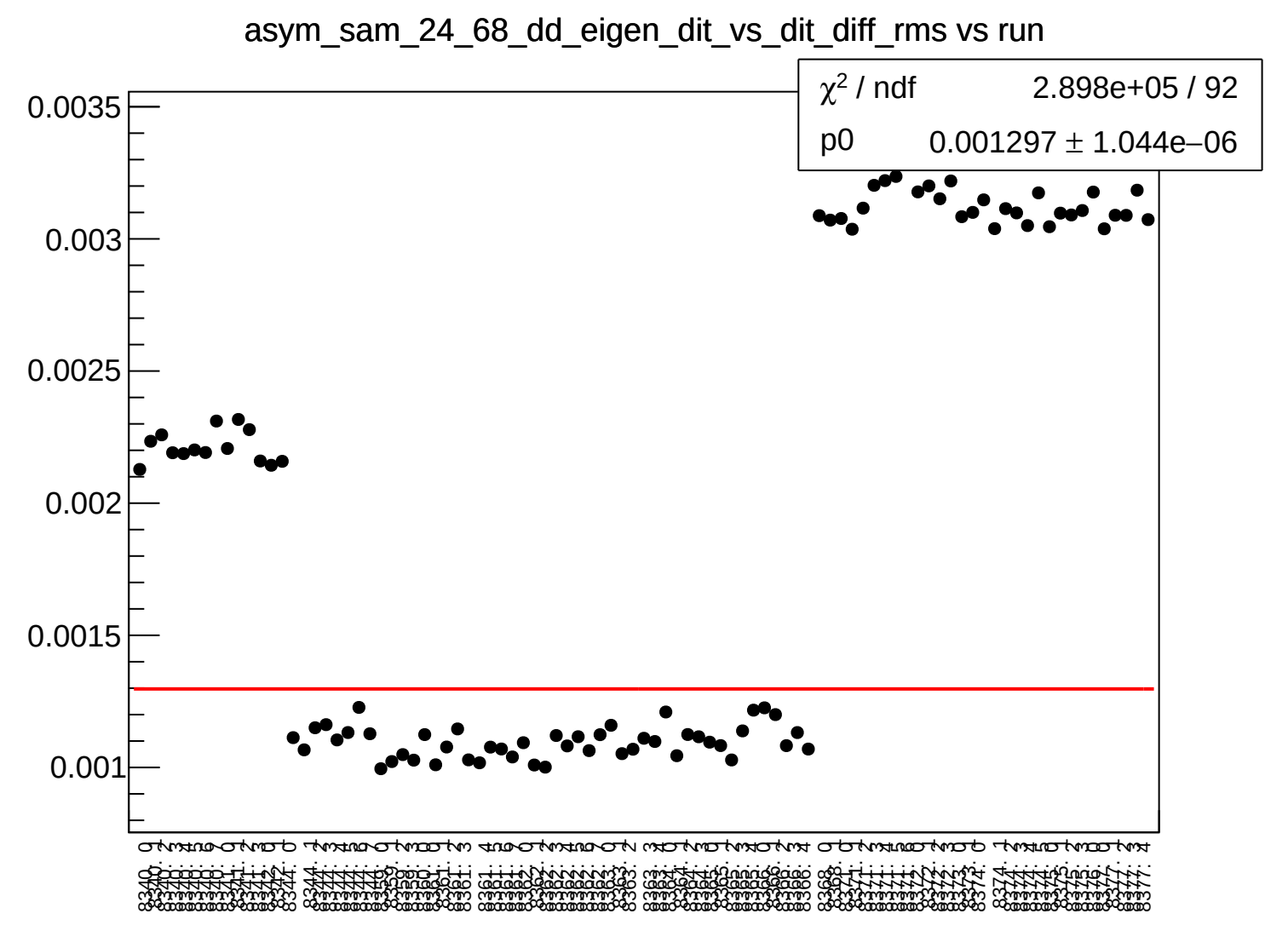

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.57 / 92
p0 −0.01754 ± 0.05427
pull
Entries 93
Mean 991.8
Std Dev 0
pull1D
Entries 93
Mean 0.003632
Std Dev 1.008

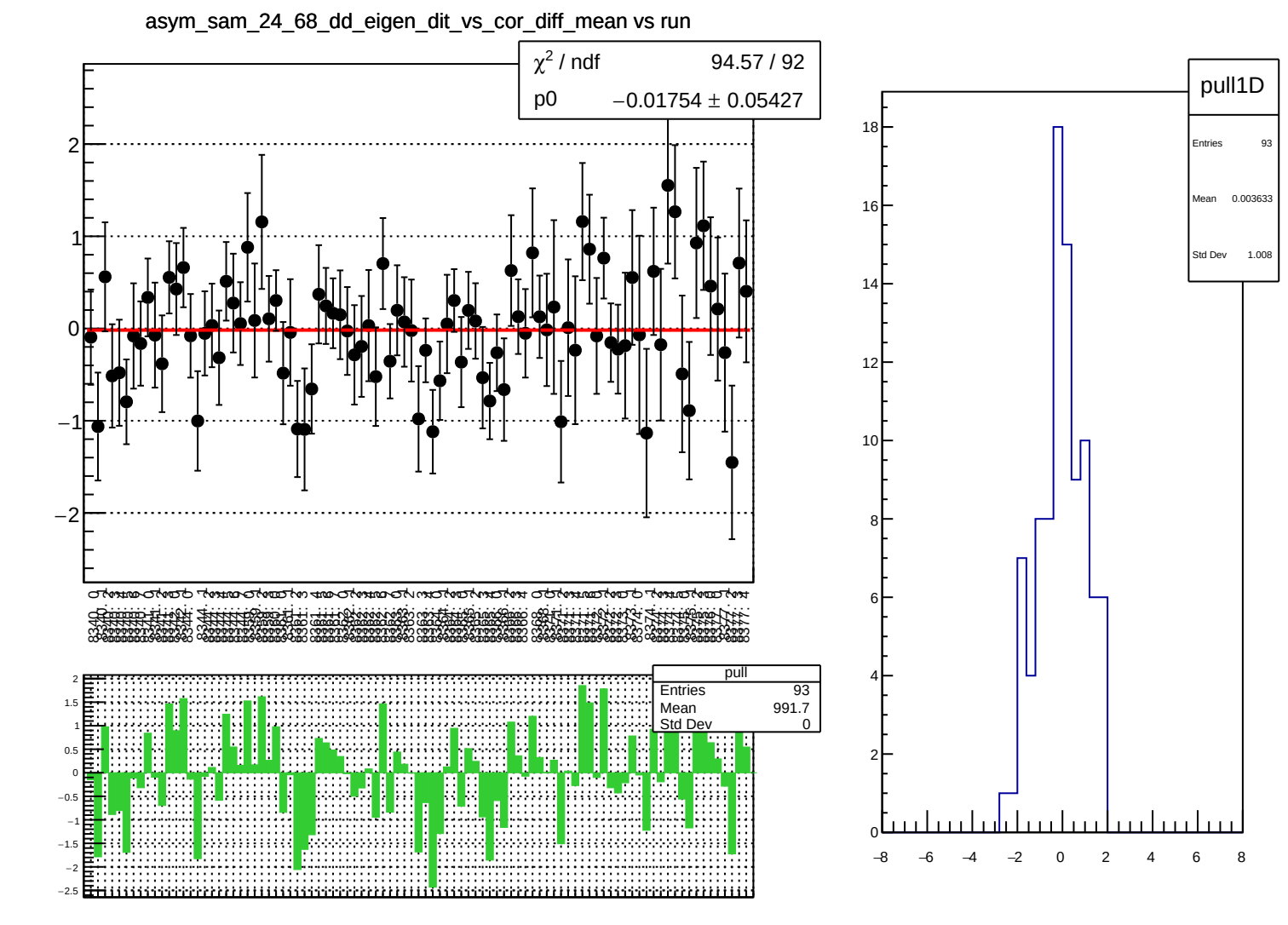

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.788e+04 / 92
p0 50.84 ± 0.03837
100
90
80
70
60
50
40

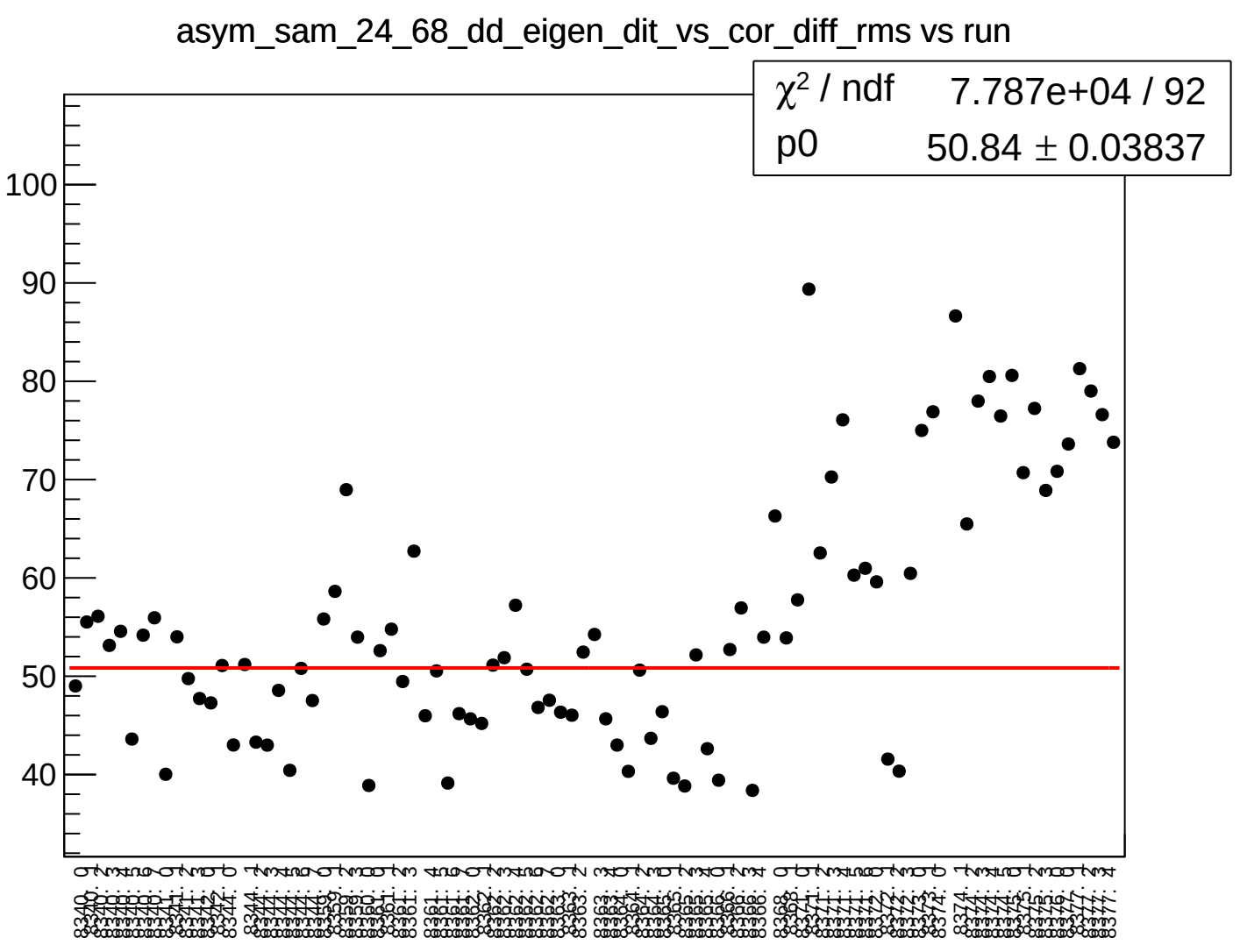

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.57 / 92
p0 −0.01754 ± 0.05427
pull
Entries 93
Mean 991.8
Std Dev 0
pull1D
Entries 93
Mean 0.003632
Std Dev 1.008

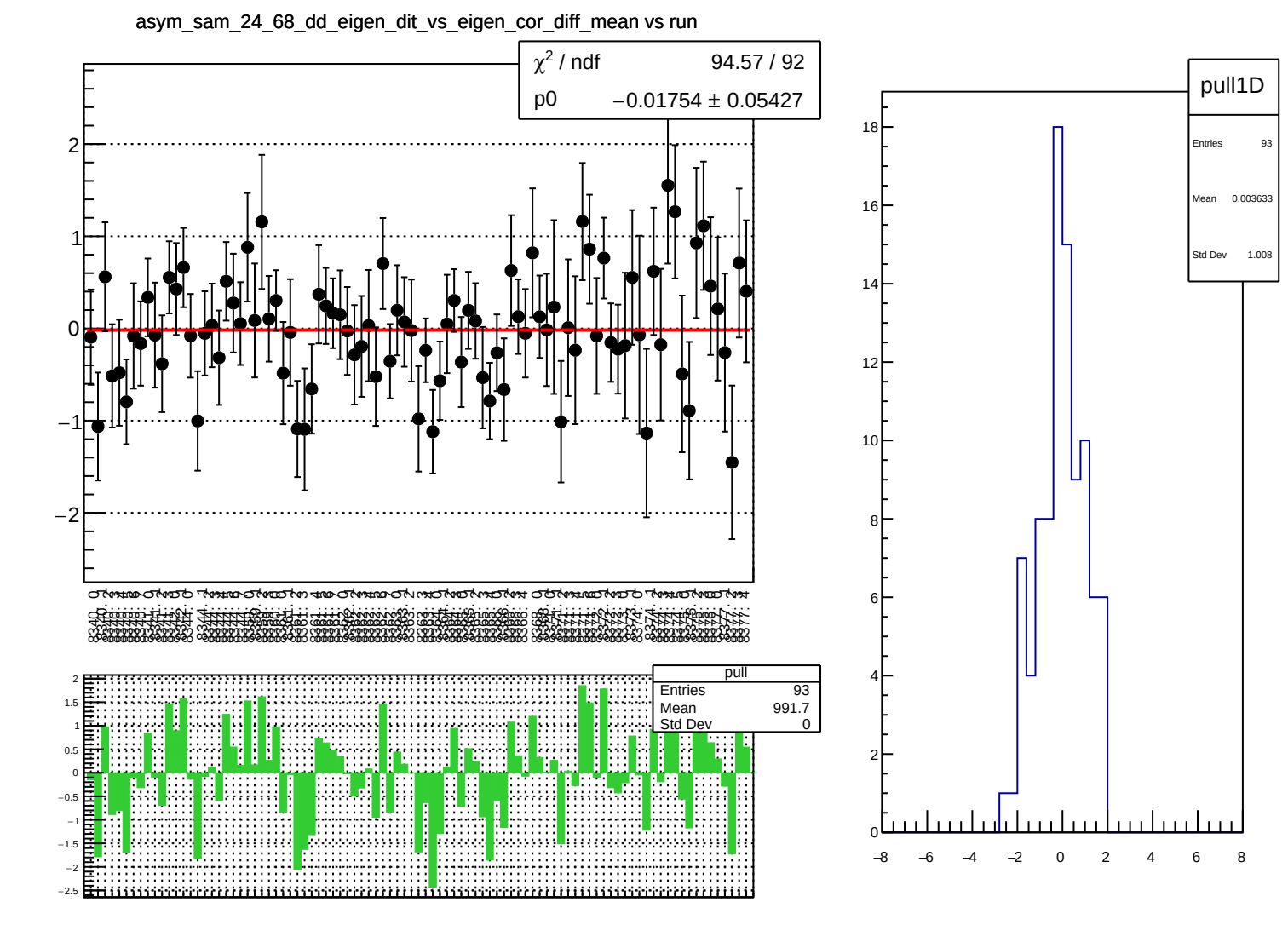

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.788e+04 / 92
p0 50.84 ± 0.03837
100
90
80
70
60
50
40

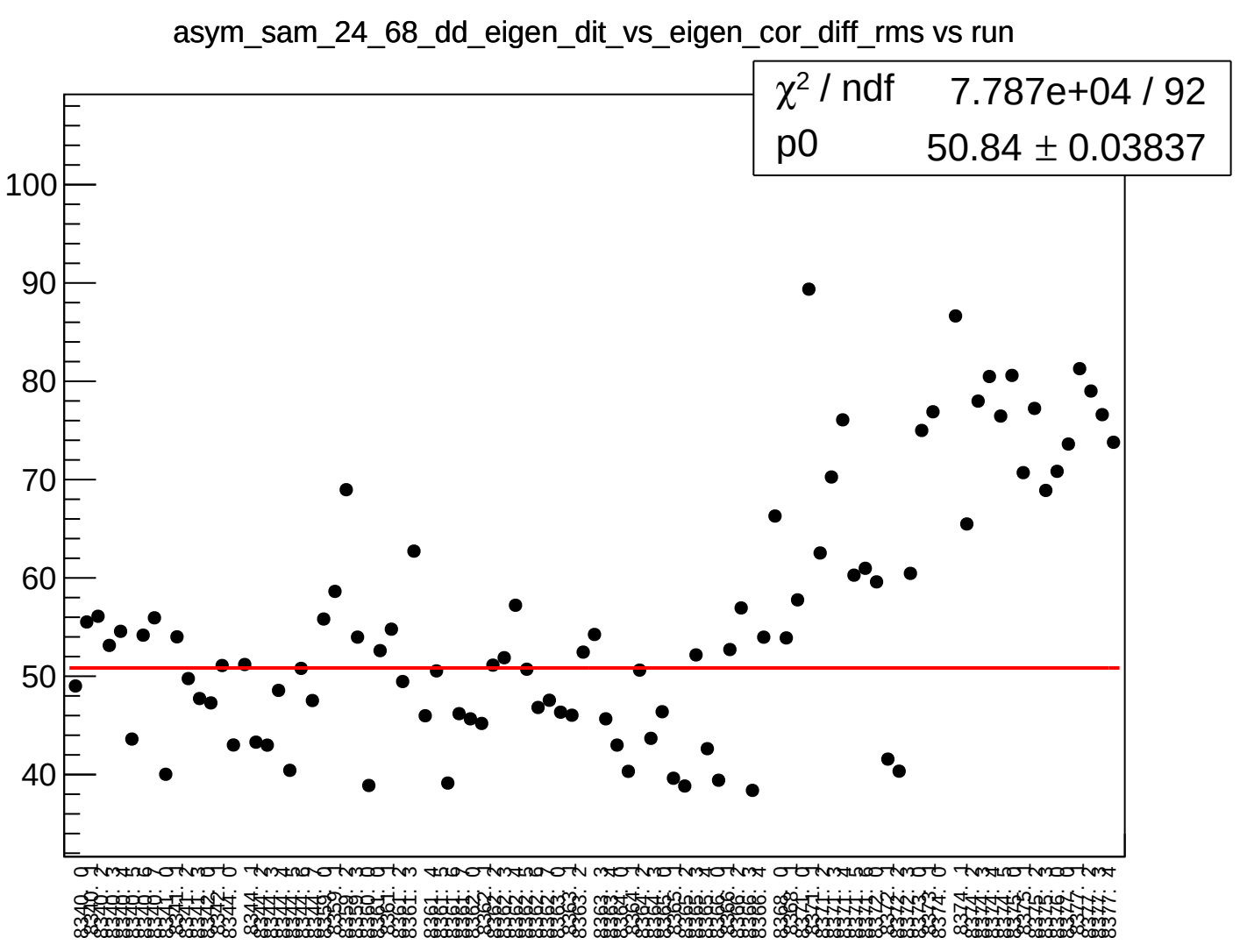

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.77 / 92
p0 6.667e−06 ± 1.476e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 248.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01742
Std Dev 0.9317
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

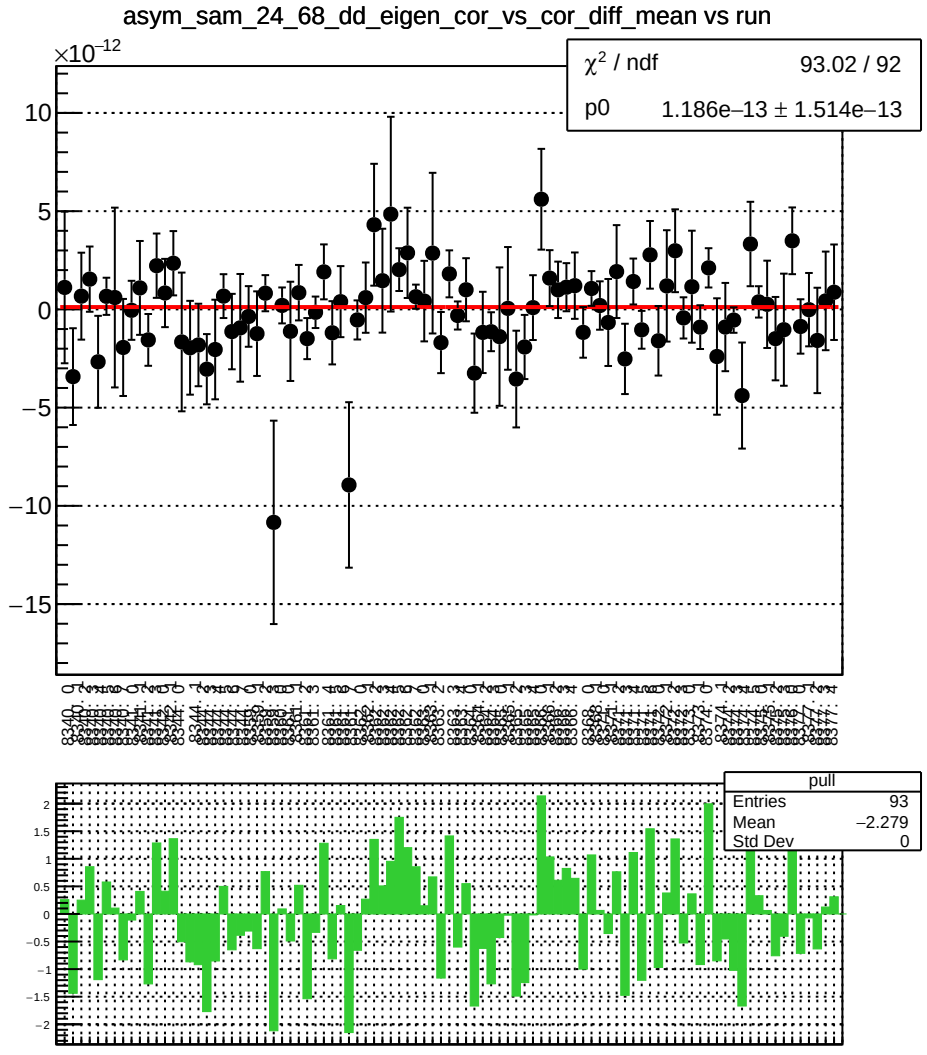

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.898e+05 / 92
p0 0.001297 ± 1.044e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

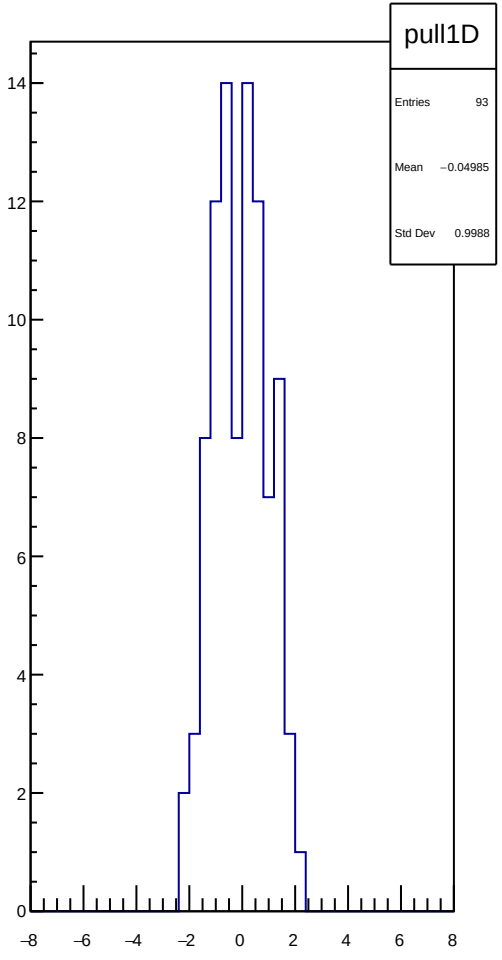

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.57 / 92
p0 −0.01754 ± 0.05427
pull
Entries 93
Mean 991.7
Std Dev 0
pull1D
Entries 93
Mean 0.003633
Std Dev 1.008

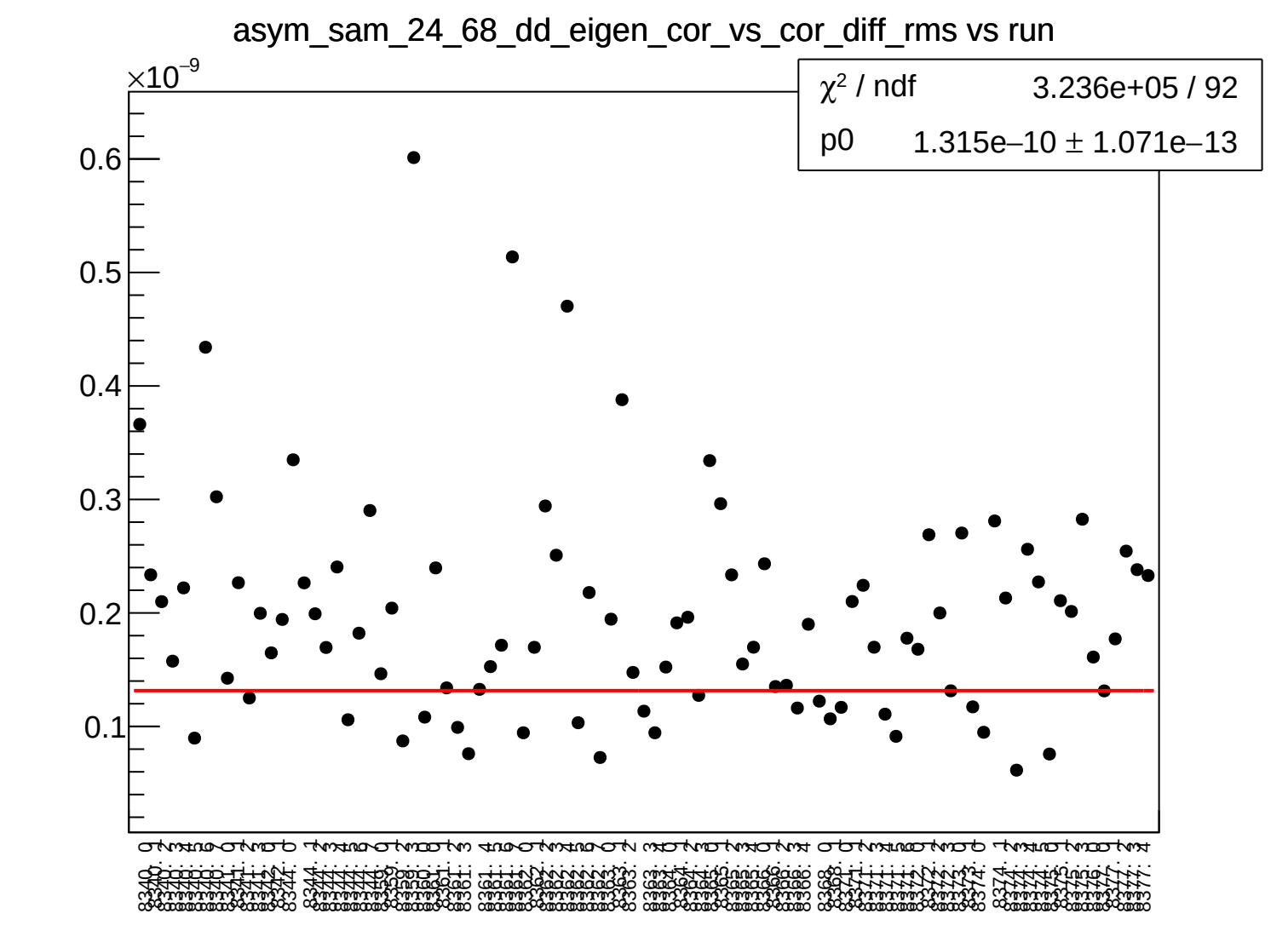

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.787e+04 / 92
p0 50.84 ± 0.03837
100
90
80
70
60
50
40

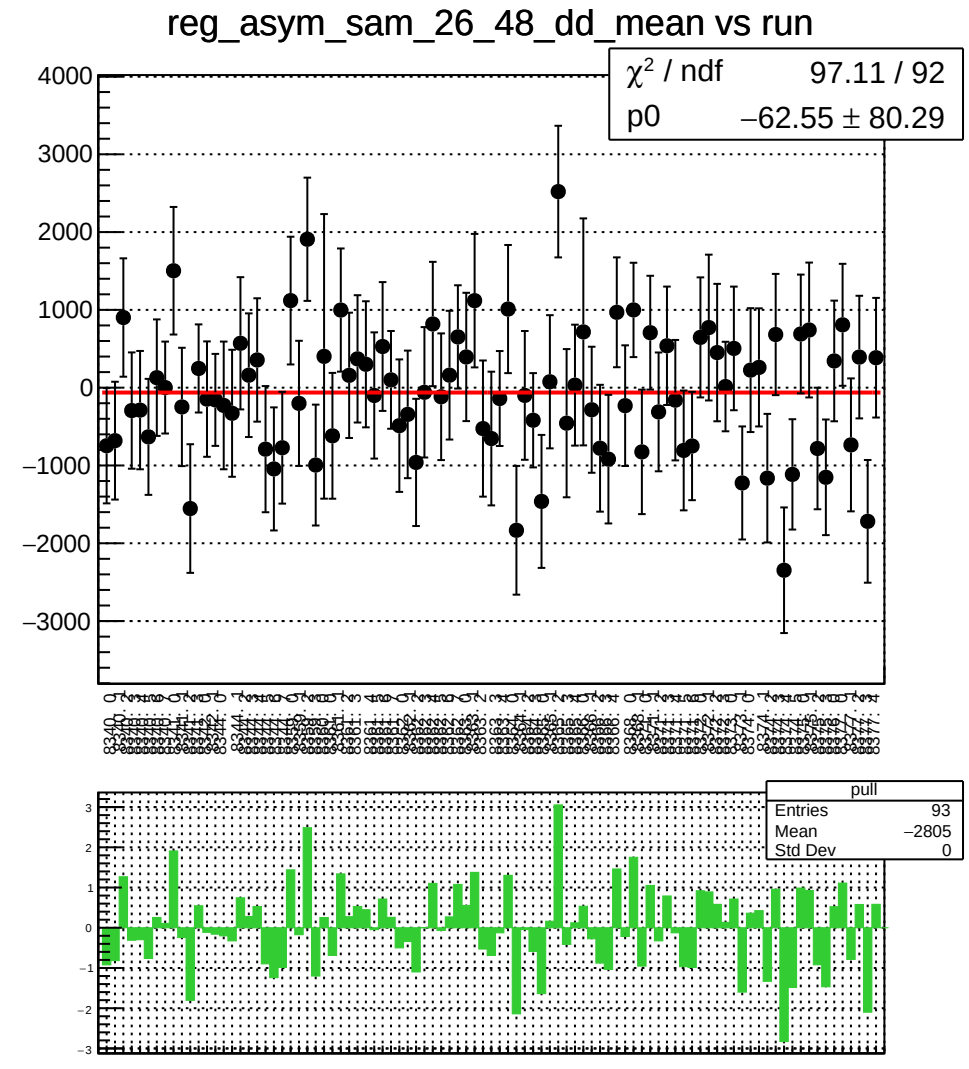

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.57 / 92
p0 −0.01754 ± 0.05427
pull
Entries 93
Mean 991.7
Std Dev 0
pull1D
Entries 93
Mean 0.003633
Std Dev 1.008

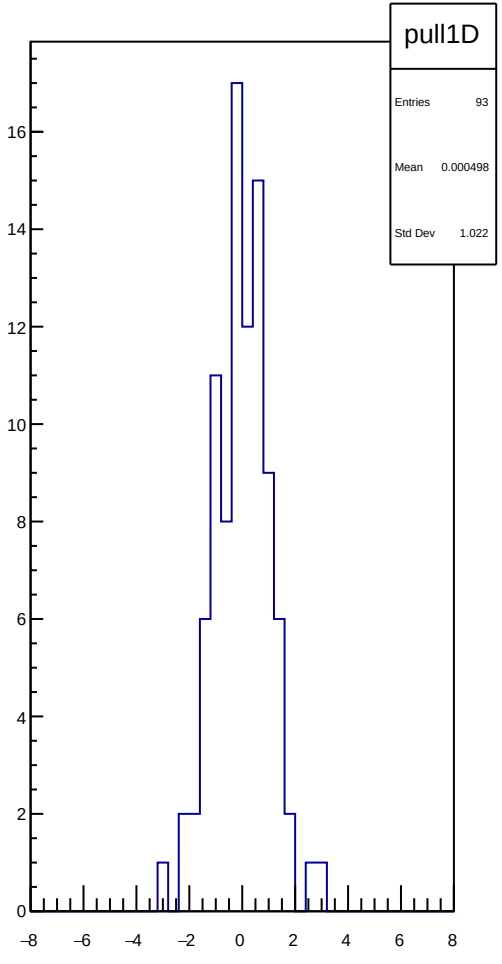

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.787e+04 / 92
p0 50.84 ± 0.03837
100
90
80
70
60
50
40

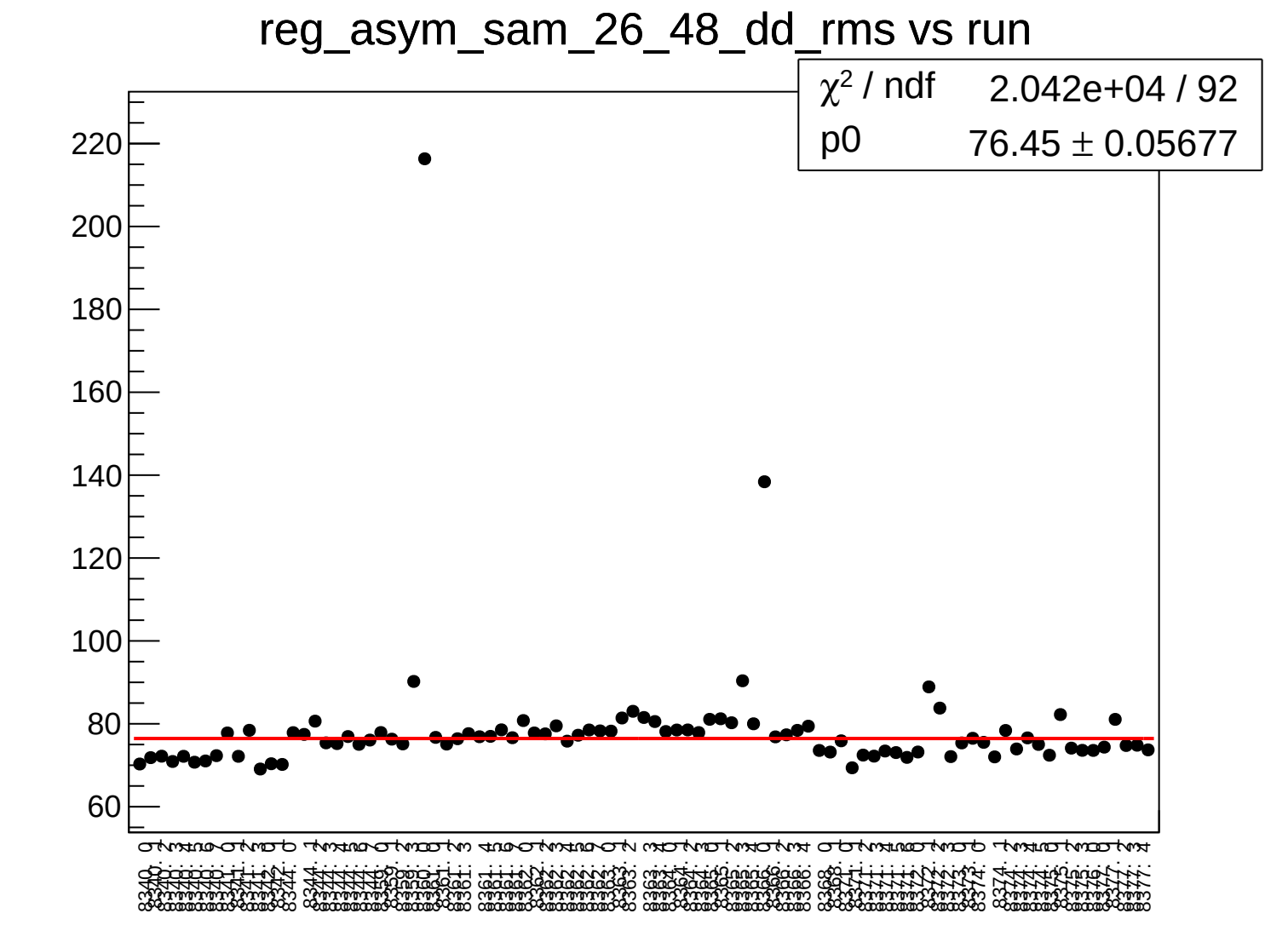

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.02 / 92
p0 1.186e−13 ± 1.514e−13
pull
Entries 93
Mean −2.279
Std Dev 0

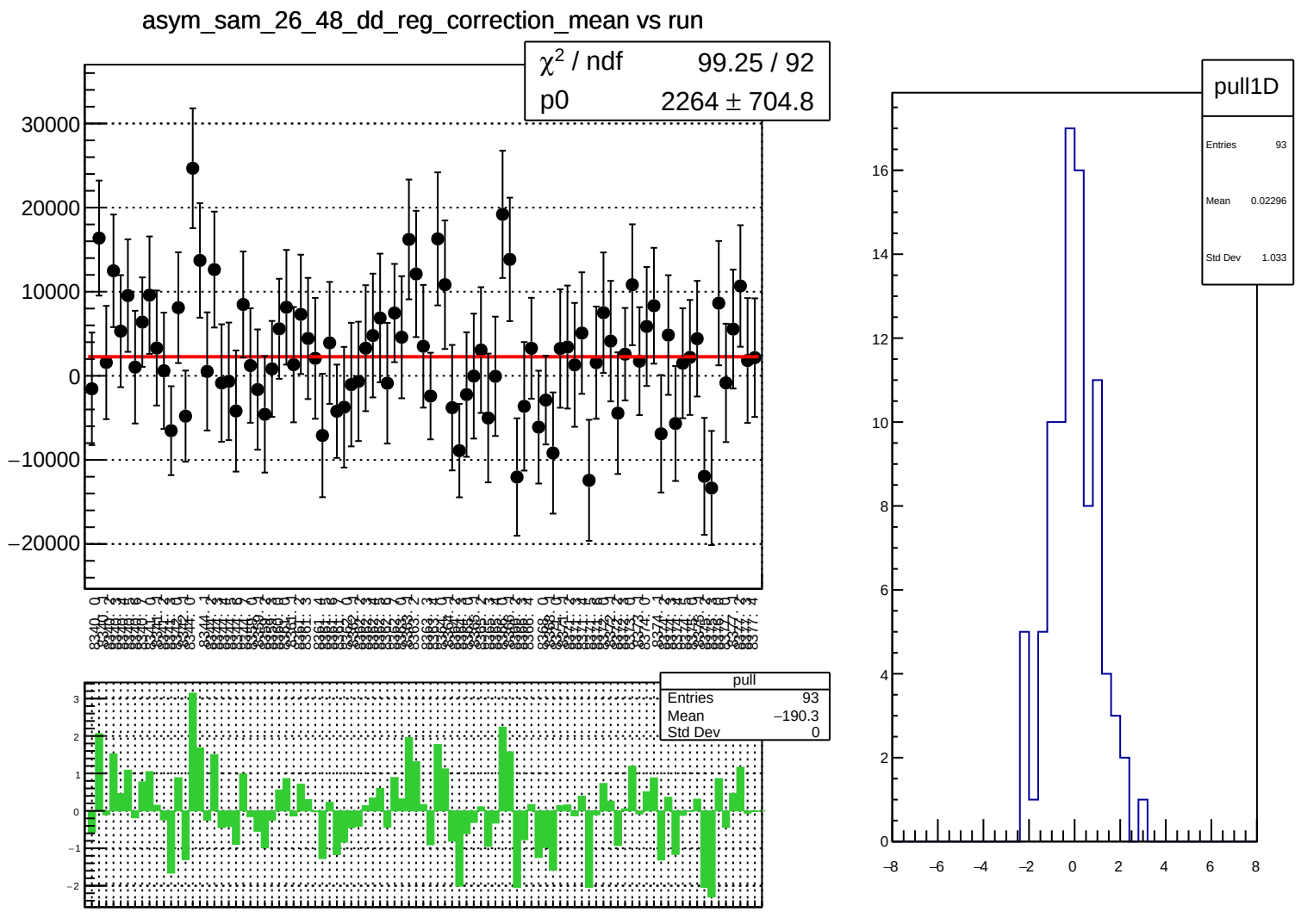

pull1D
Entries 93
Mean −0.04985
Std Dev 0.9988

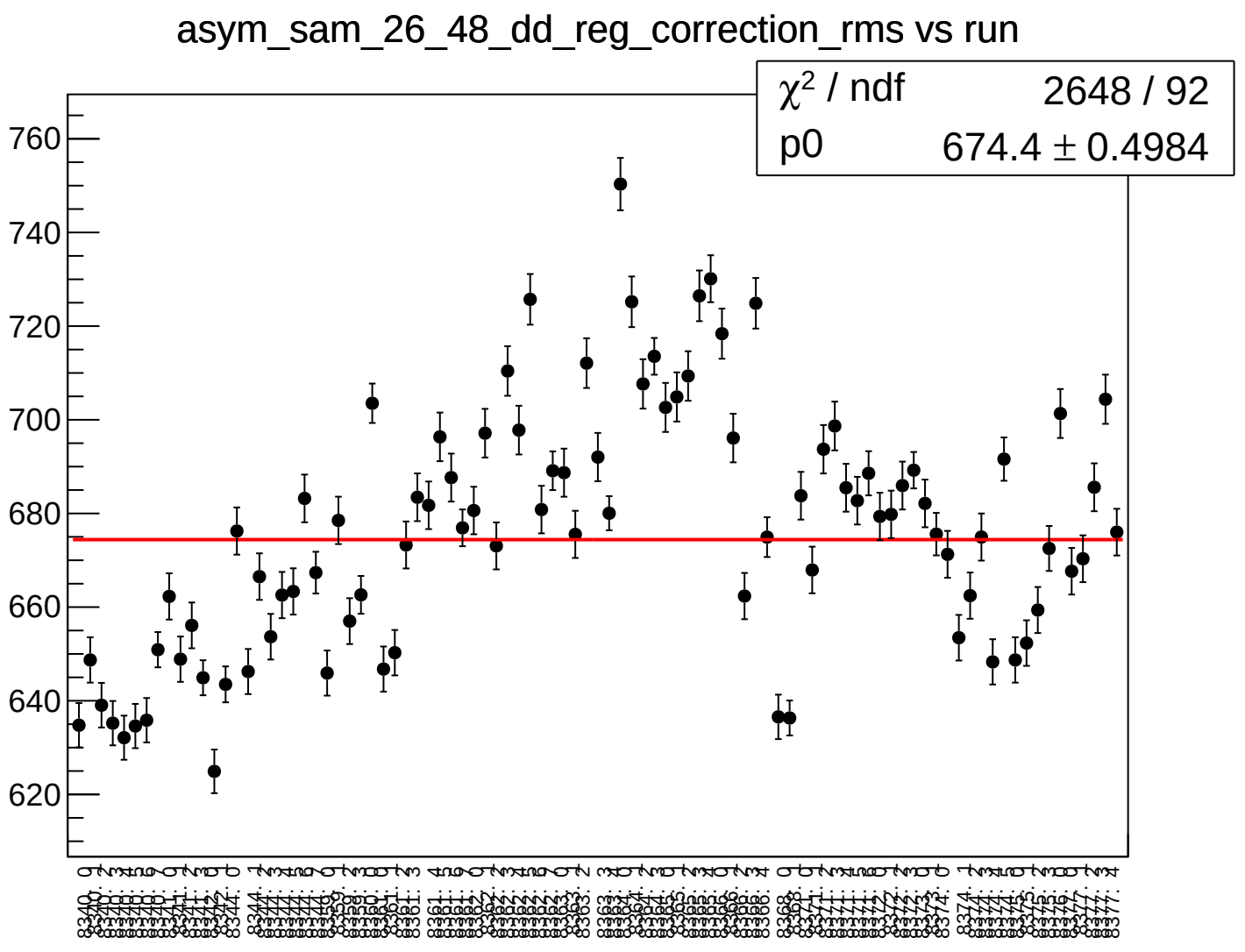

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.236e+05 / 92
p0 1.315e−10 ± 1.071e−13
0.6
0.5
0.4
0.3
0.2
0.1

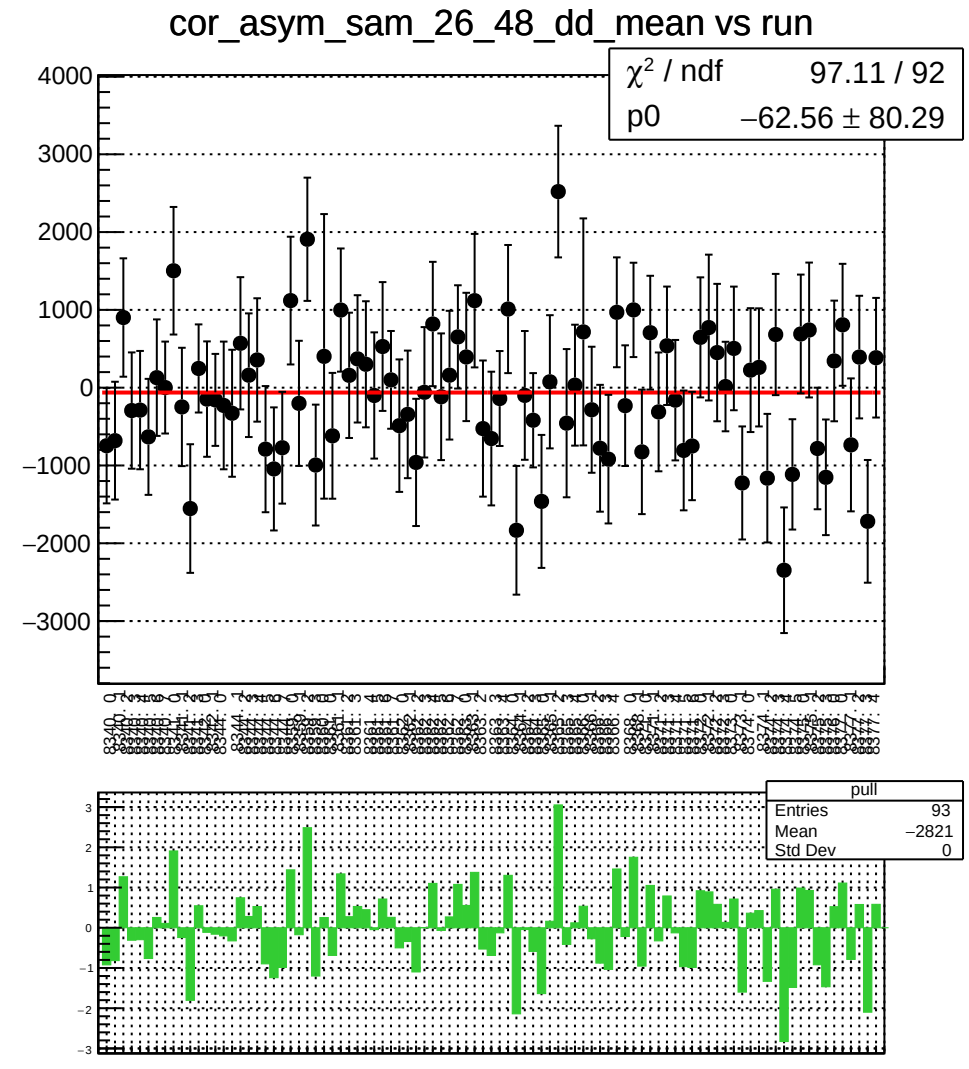

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 97.11 / 92
p0 −62.55 ± 80.29
pull
Entries 93
Mean −2805
Std Dev 0

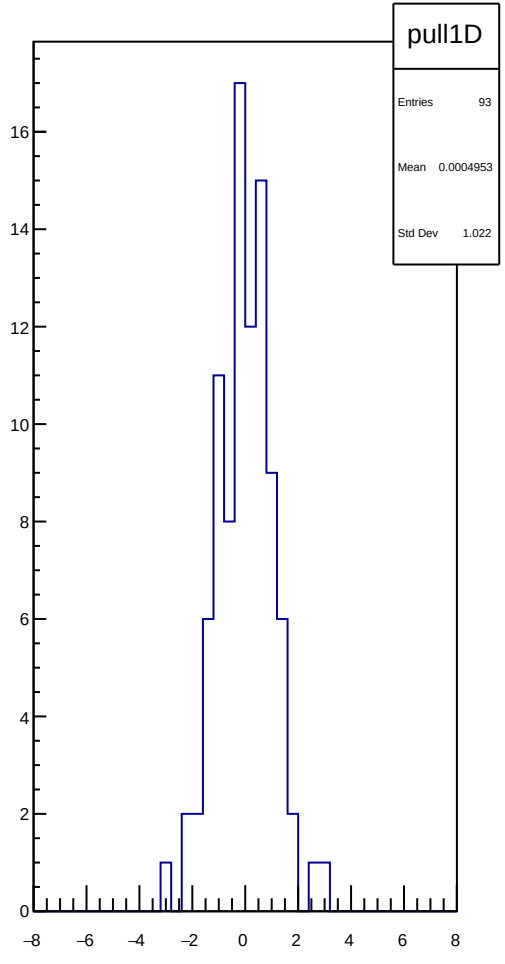

pull1D
Entries 93
Mean 0.000498
Std Dev 1.022

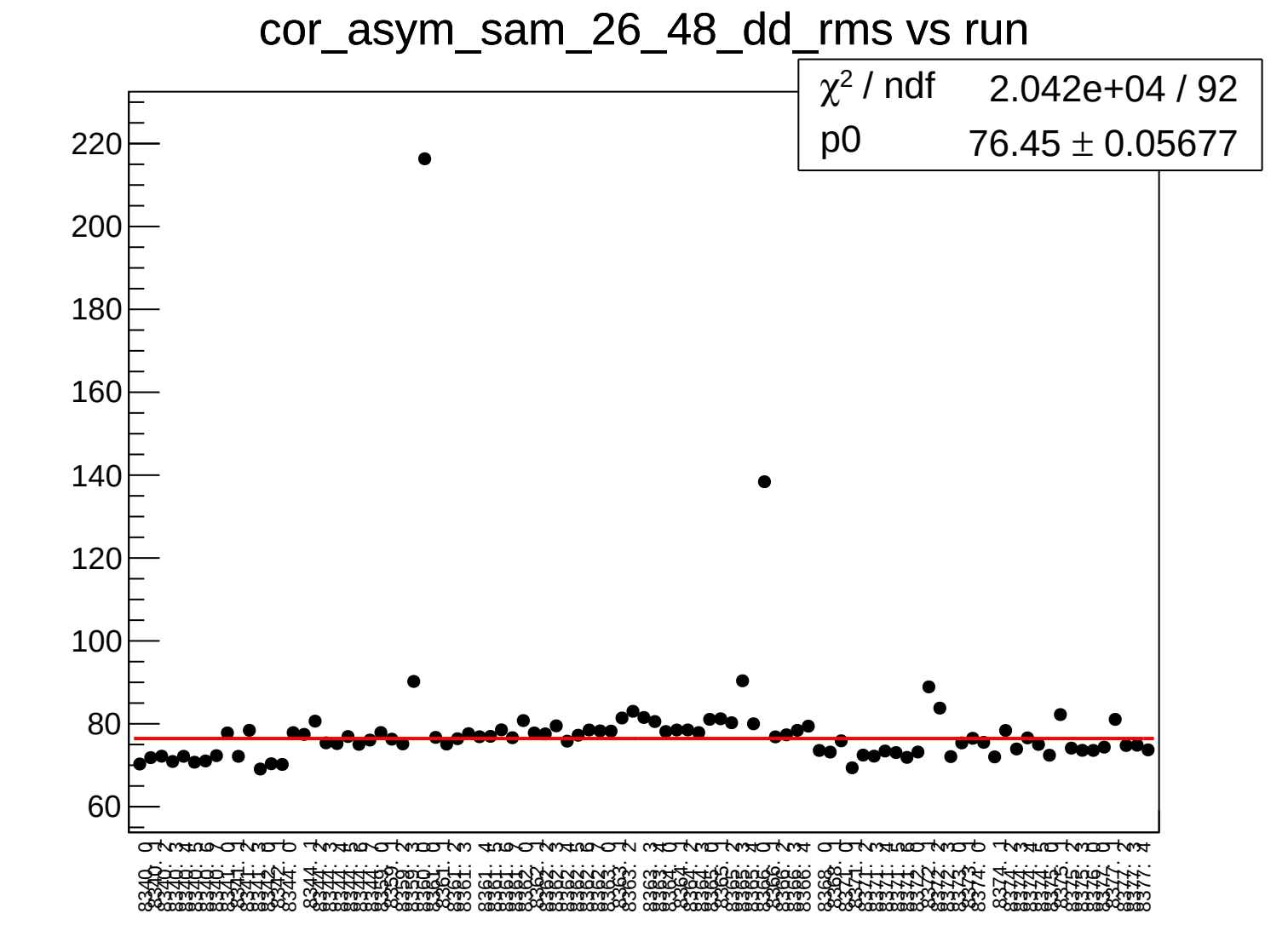

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.042e+04 / 92
p0 76.45 ± 0.05677
220
200
180
160
140
120
100
80
60

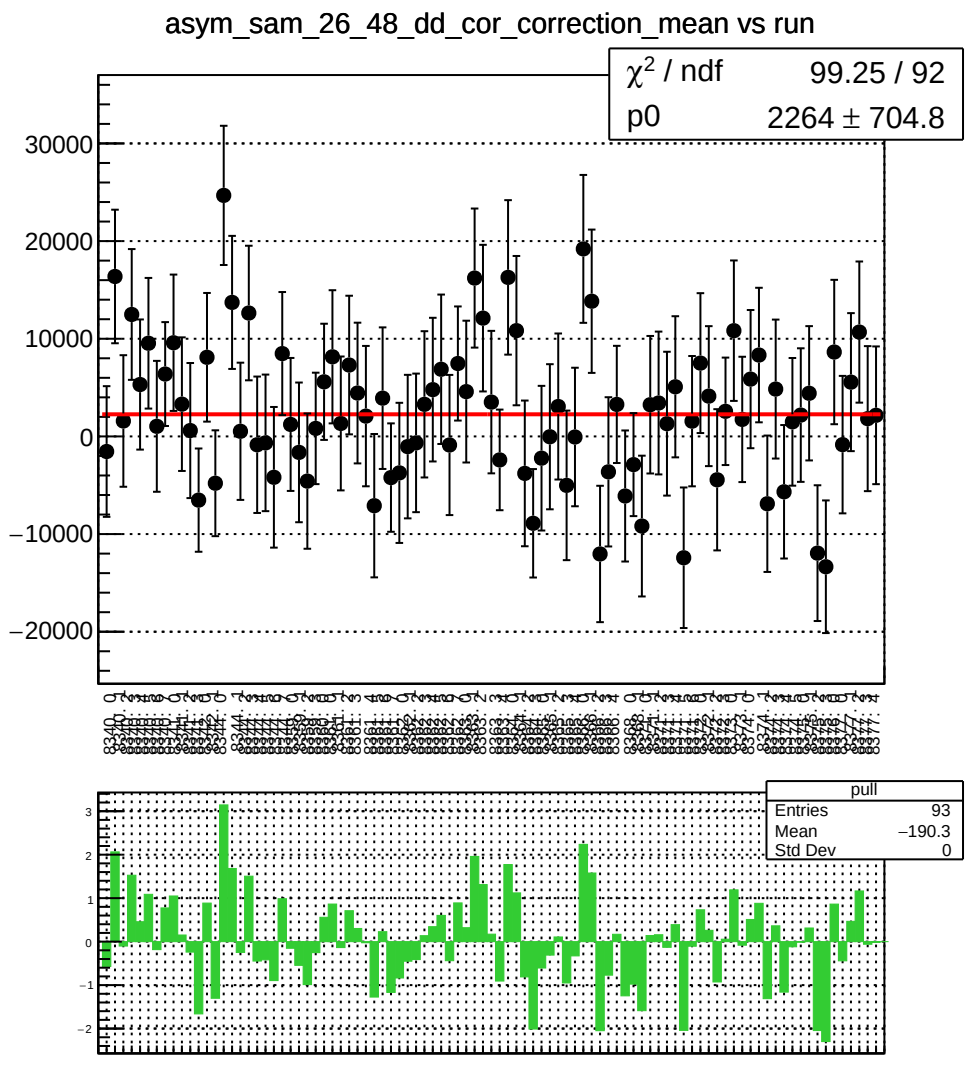

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 99.25 / 92
p0 2264 ± 704.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −190.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02296
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

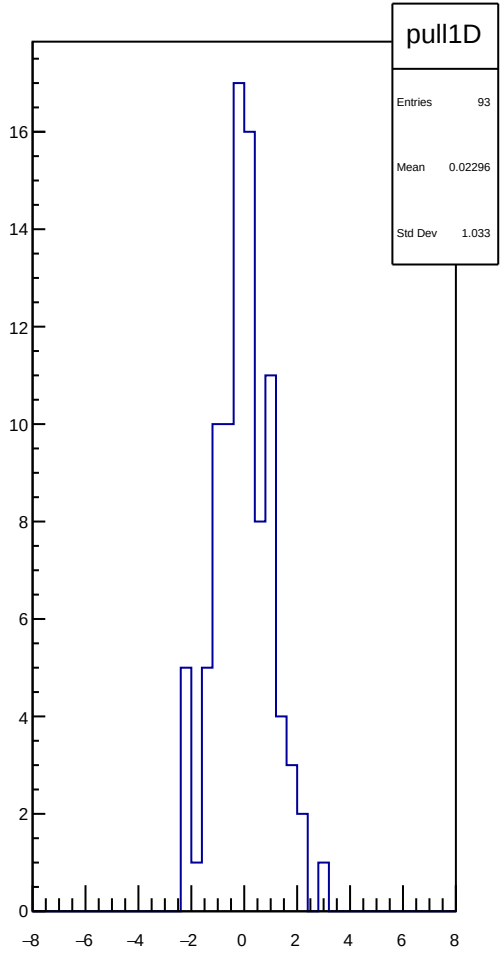

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 2648 / 92
p0 674.4 ± 0.4984
760
740
720
700
680
660
640
620

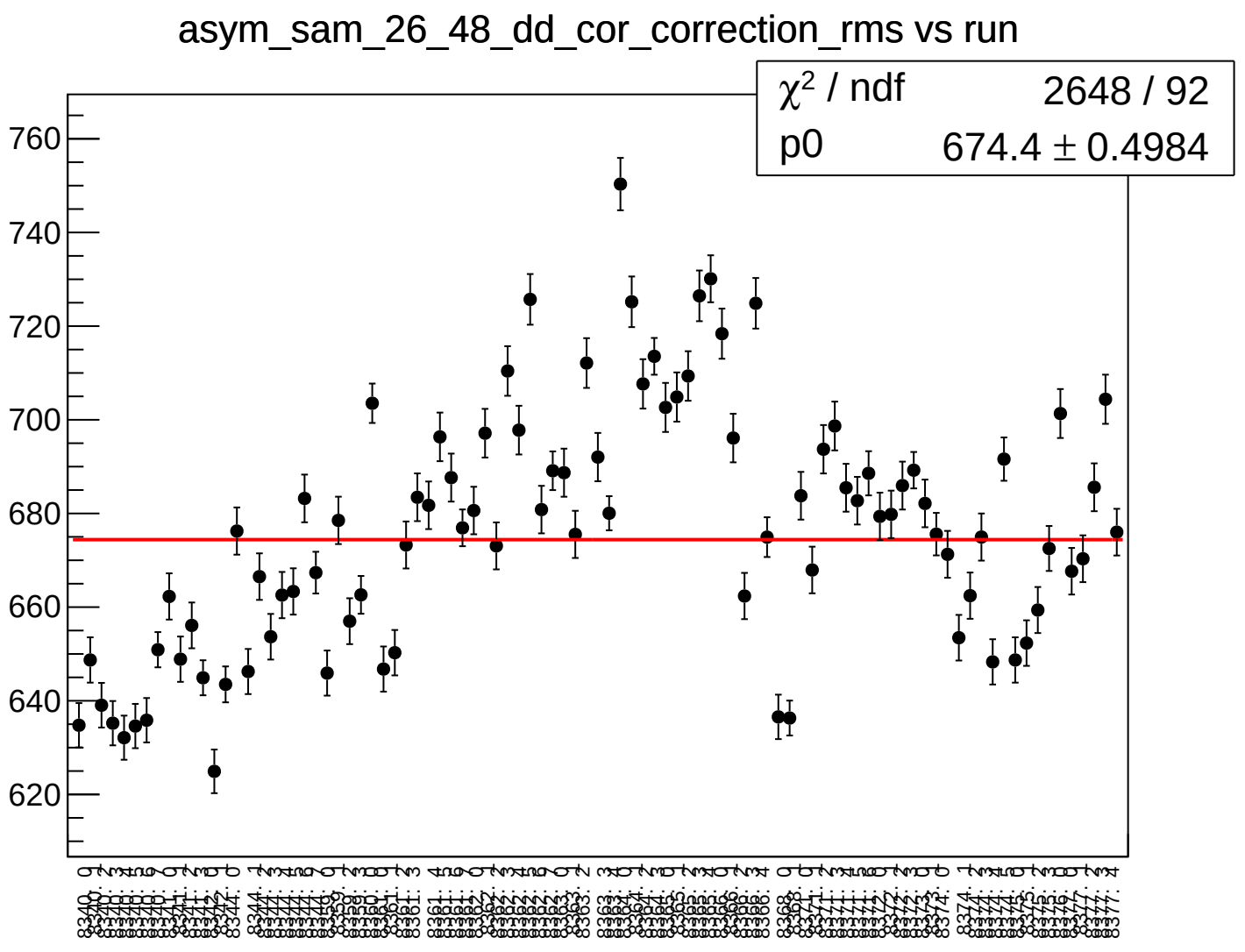

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 97.11 / 92
p0 −62.56 ± 80.29
pull
Entries 93
Mean −2821
Std Dev 0

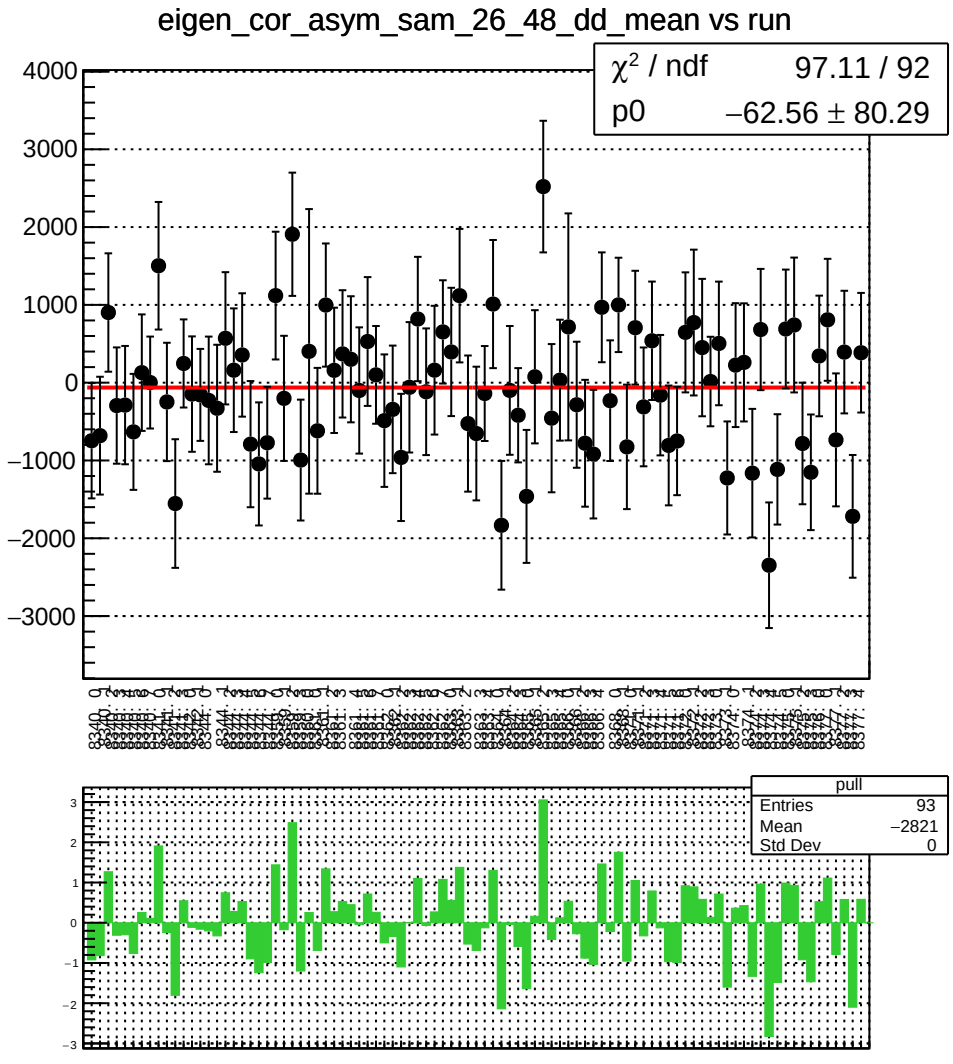

pull1D
Entries 93
Mean 0.0004953
Std Dev 1.022

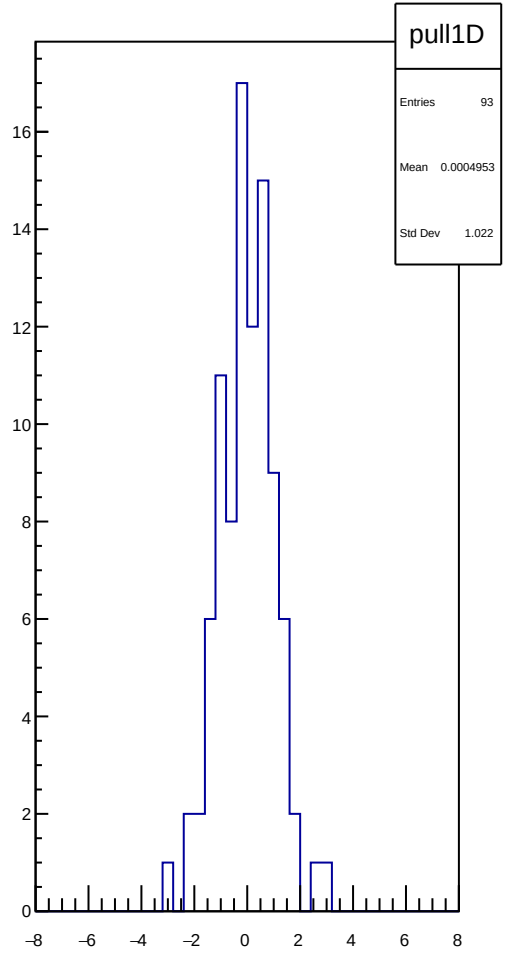

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.042e+04 / 92
p0 76.45 ± 0.05677
220
200
180
160
140
120
100
80
60

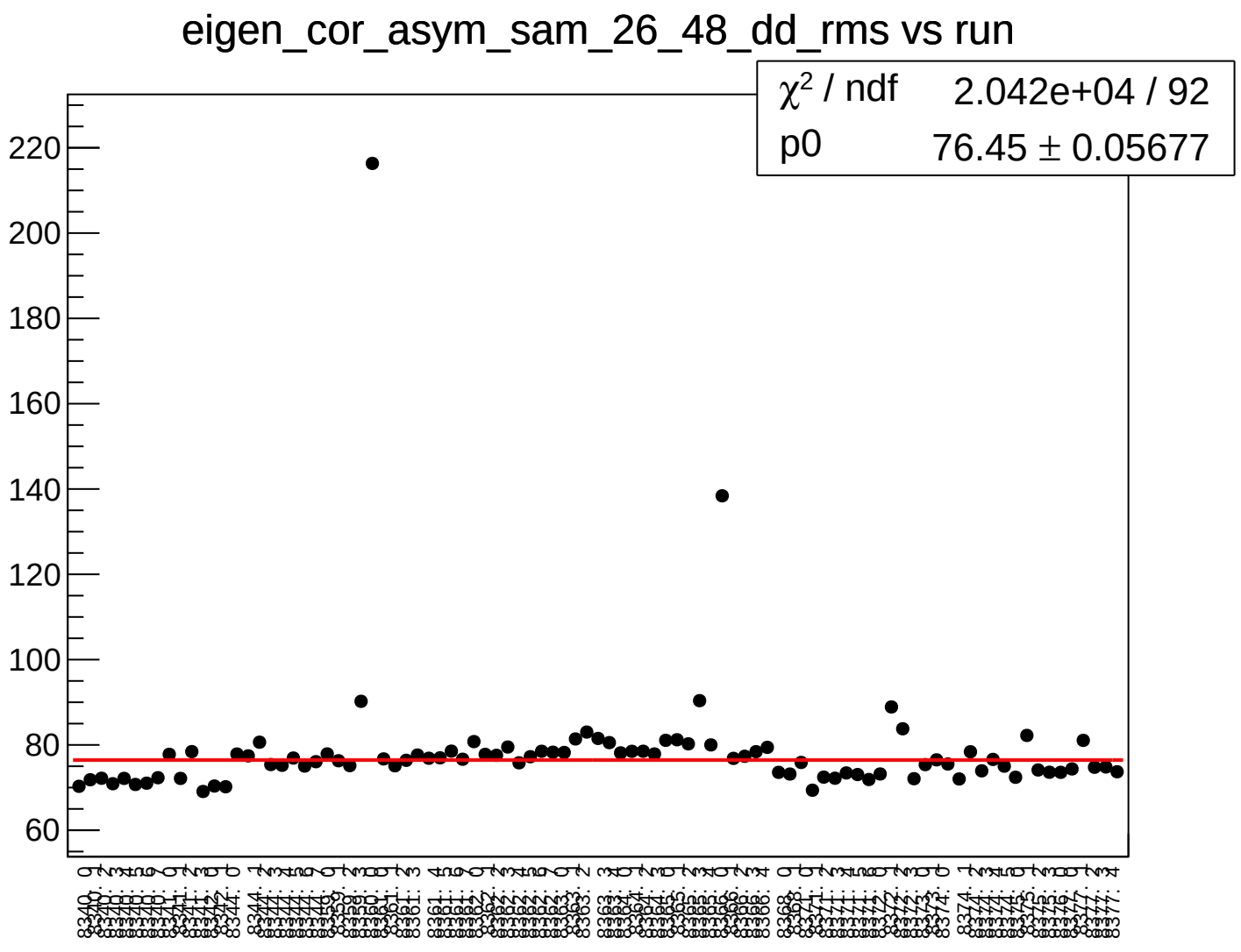

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 99.25 / 92
p0 2264 ± 704.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −190.3
Std Dev 0
3
2
1
0
−1
−2

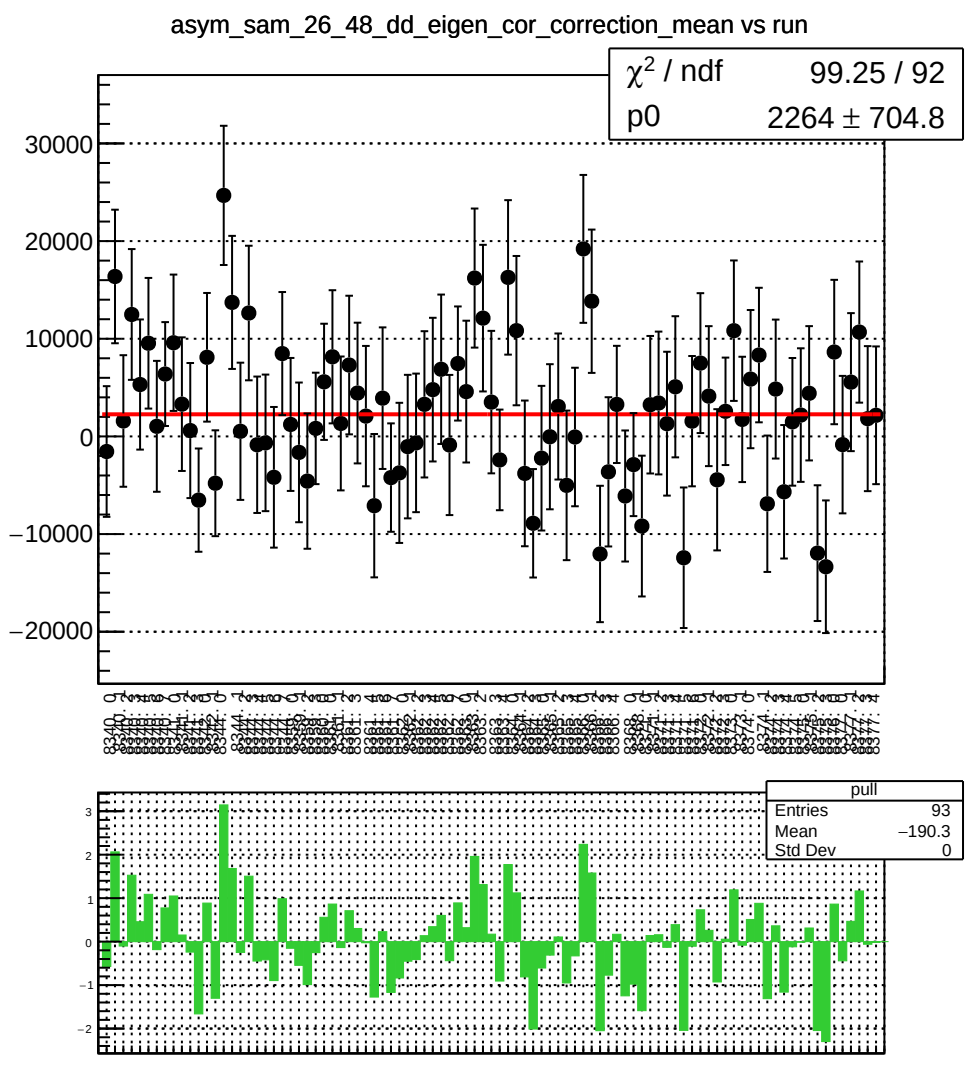

pull1D
Entries 93
Mean 0.02296
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

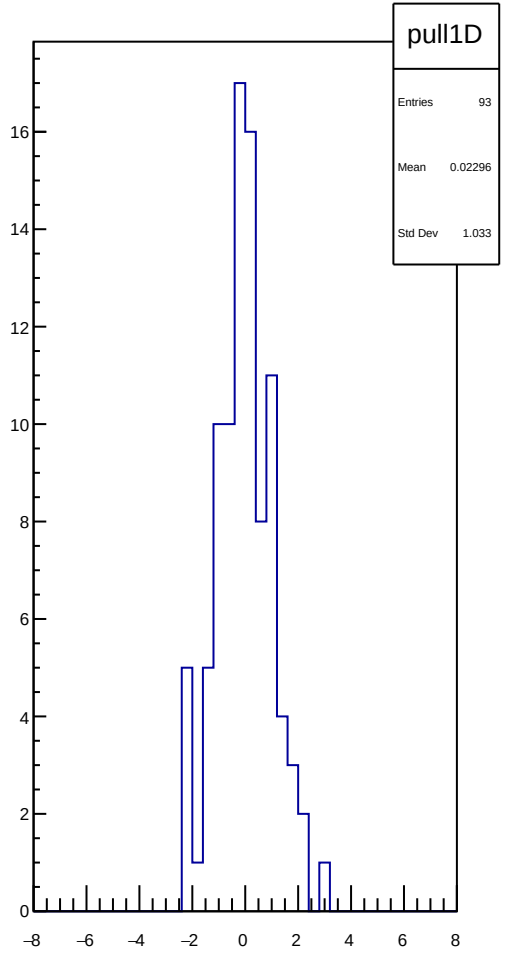

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 2648 / 92
p0 674.4 ± 0.4984
760
740
720
700
680
660
640
620

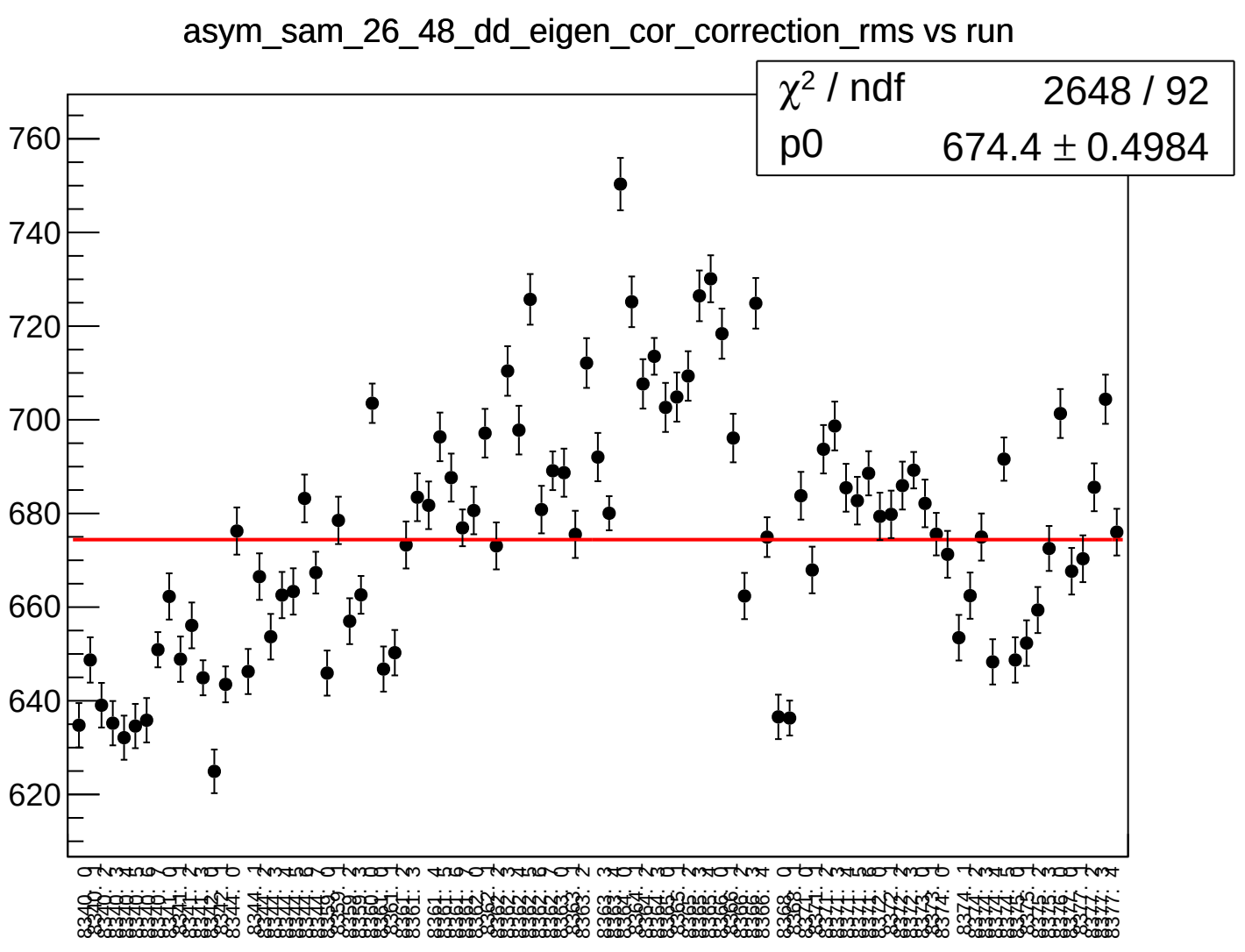

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 97.11 / 92
p0 −62.56 ± 80.29
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −2821
Std Dev 0
3
2
1
0
−1
−2
−3

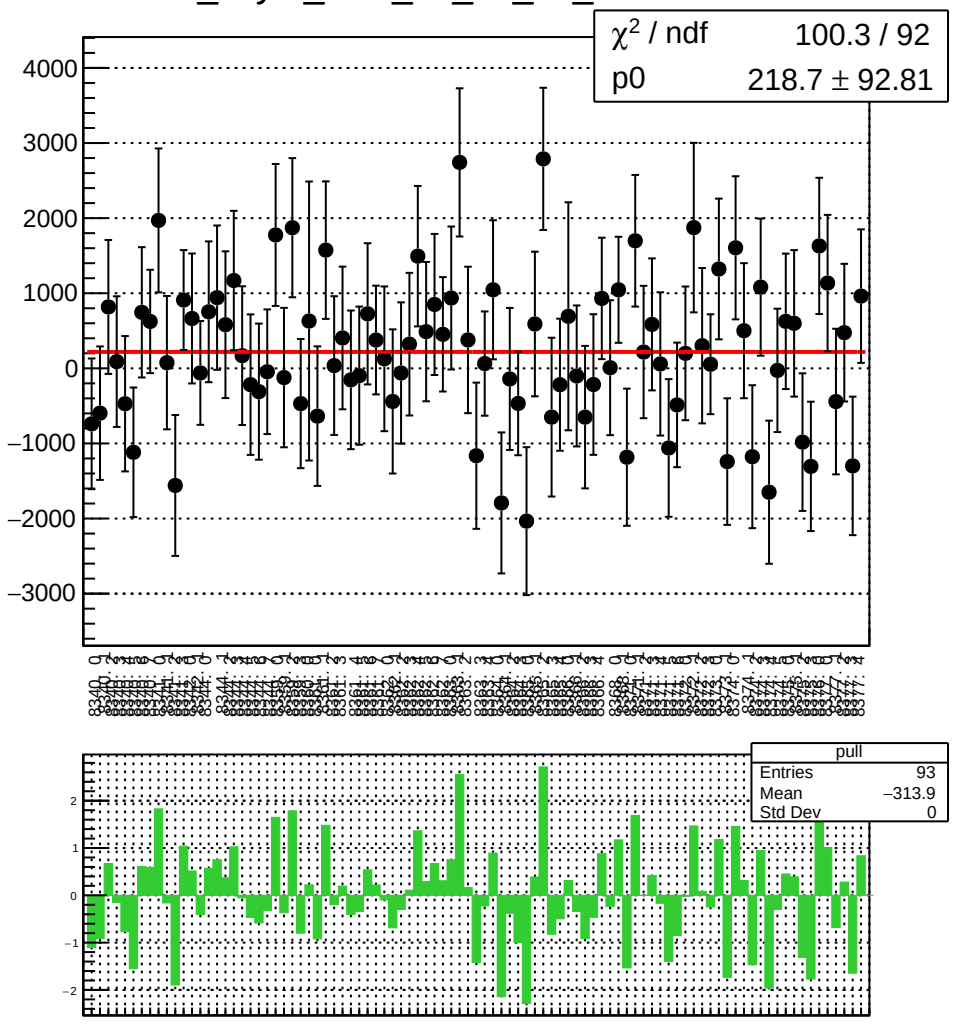

pull1D
Entries 93
Mean 0.0004953
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

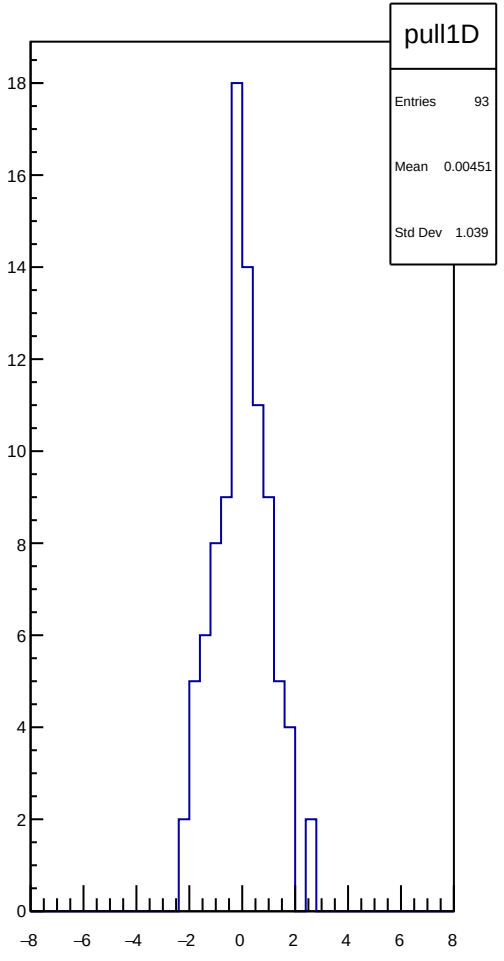

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.042e+04 / 92
p0 76.45 ± 0.05677
220
200
180
160
140
120
100
80
60

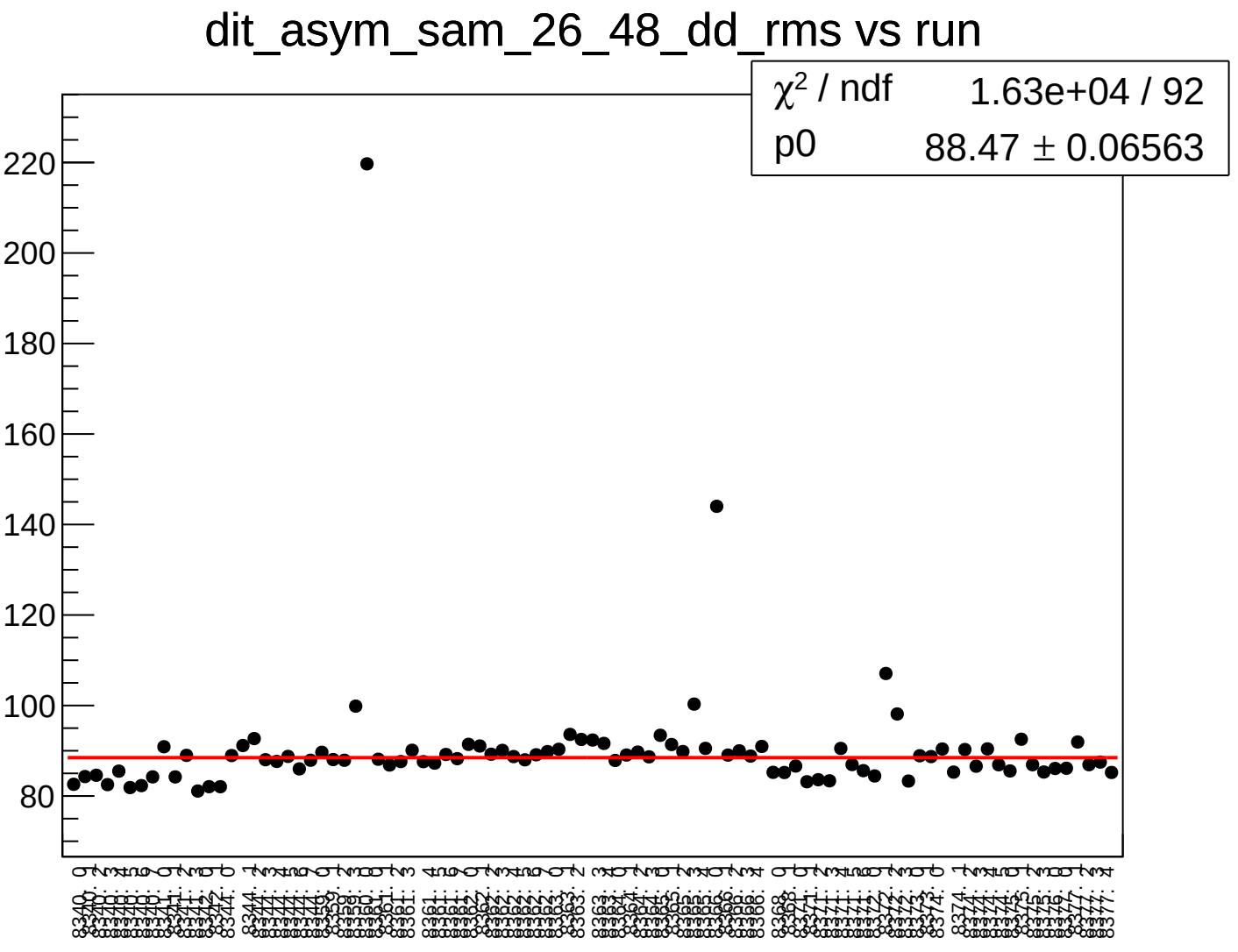

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 99.25 / 92
p0 2264 ± 704.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −190.3
Std Dev 0
3
2
1
0
−1
−2

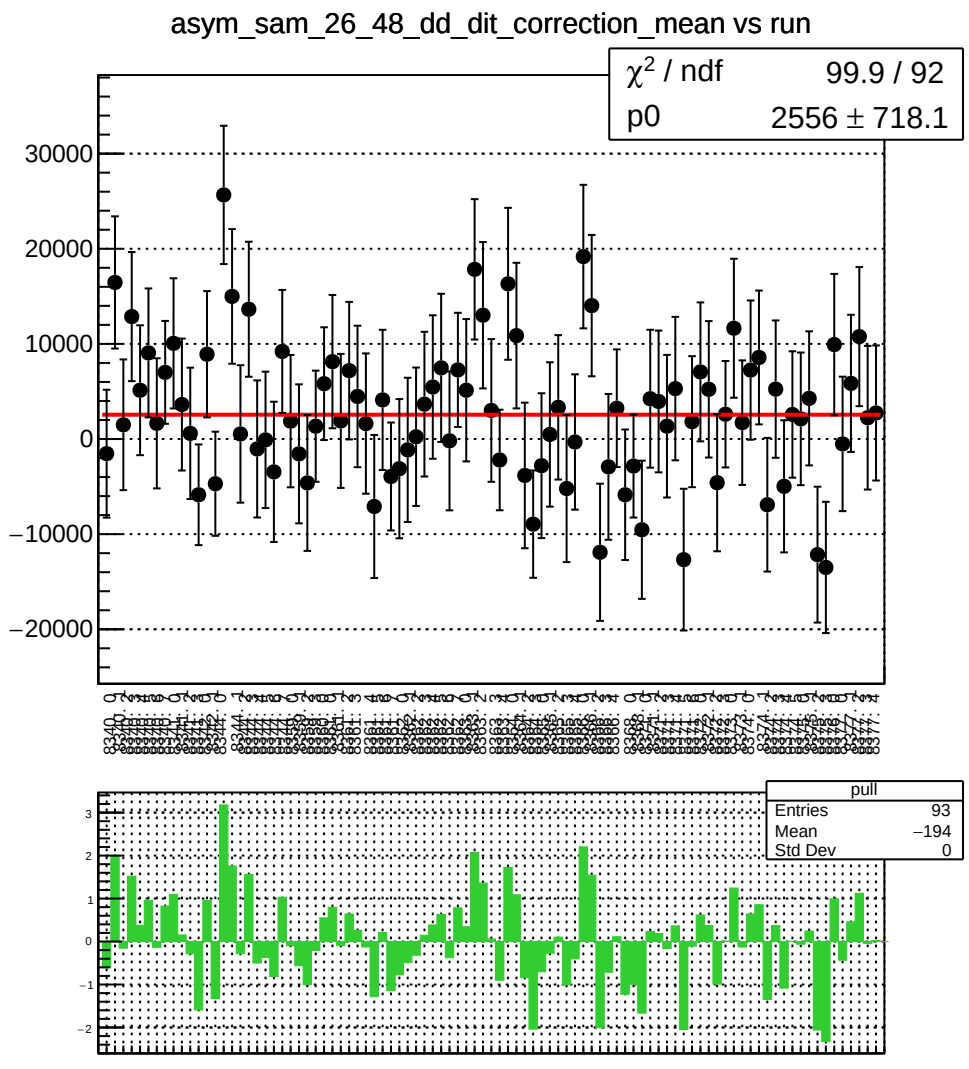

pull1D
Entries 93
Mean 0.02296
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

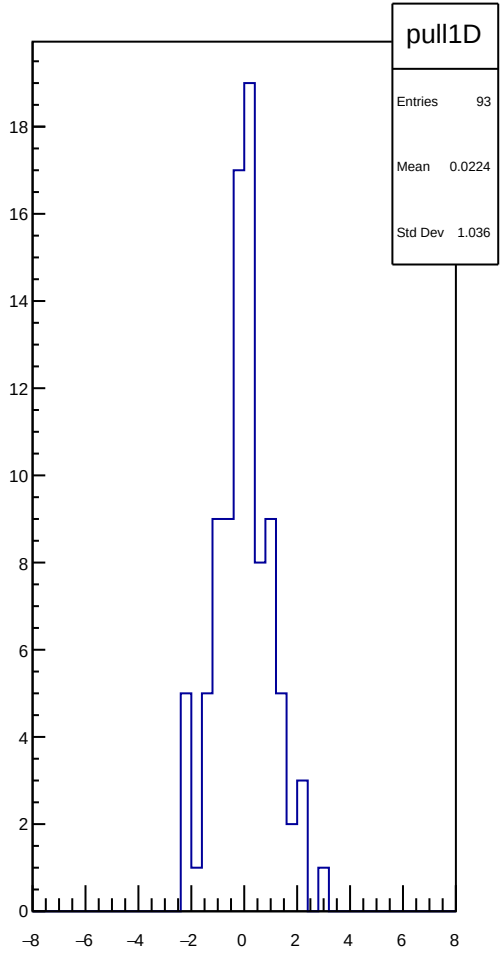

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2648 / 92
p0 674.4 ± 0.4984
760
740
720
700
680
660
640
620

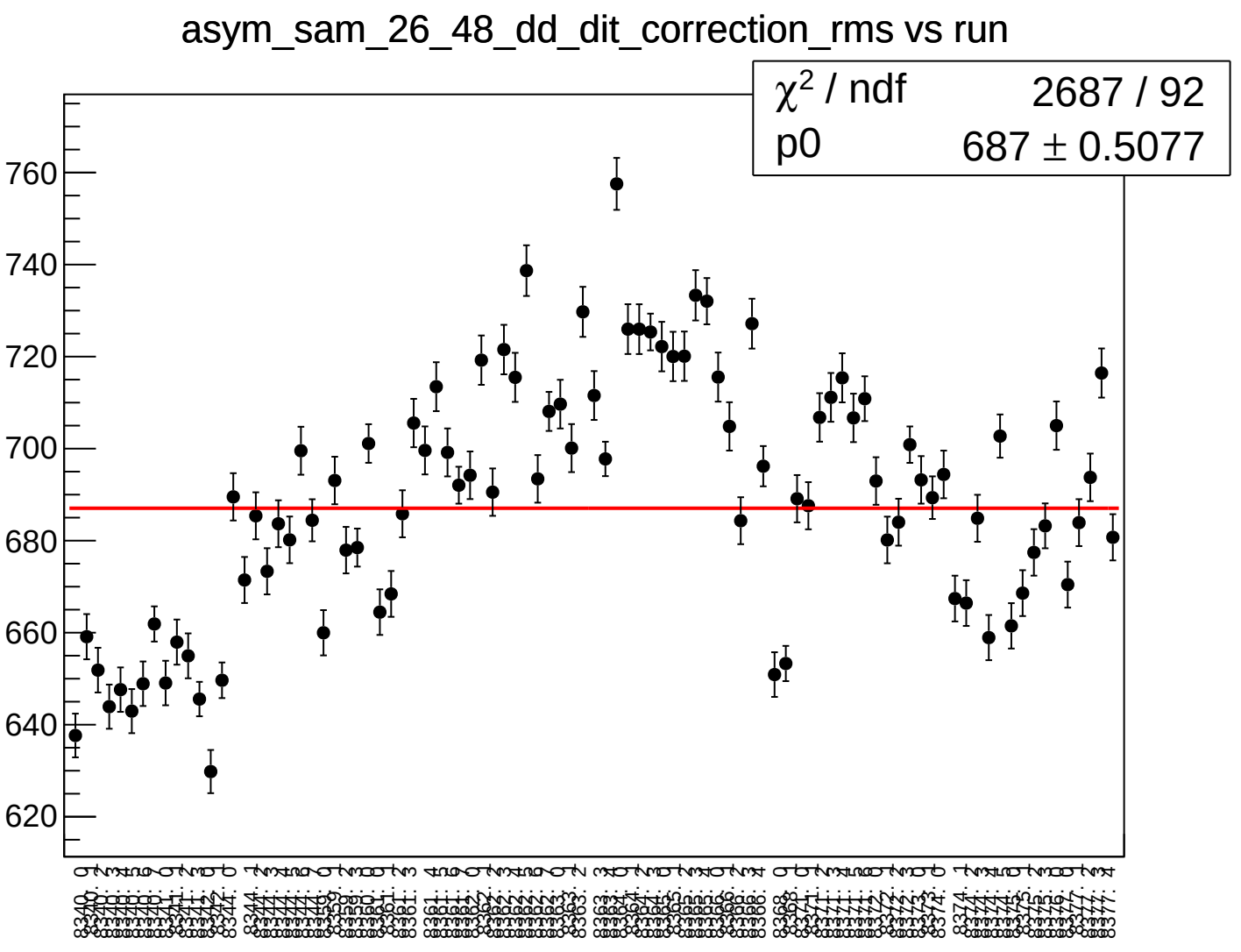

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.3 / 92
p0 218.7 ± 92.81
pull
Entries 93
Mean −313.9
Std Dev 0

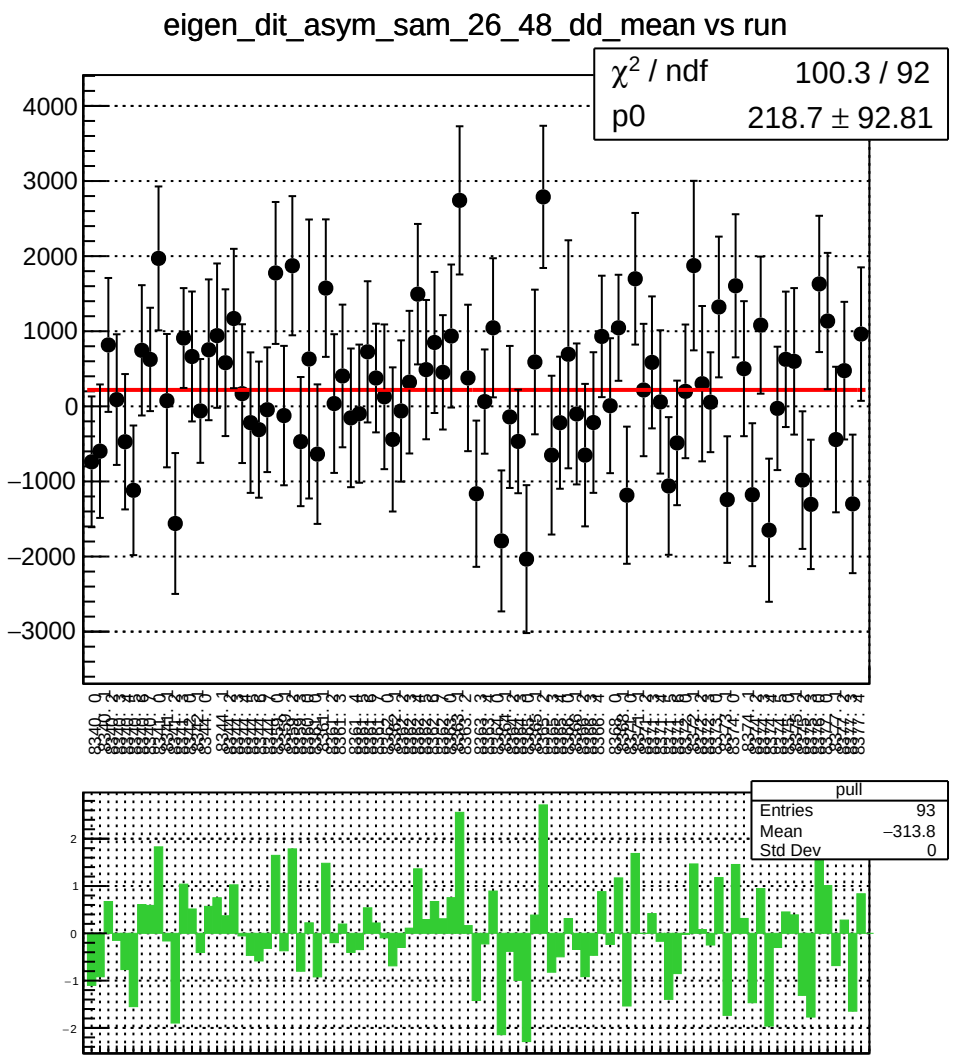

pull1D
Entries 93
Mean 0.00451
Std Dev 1.039

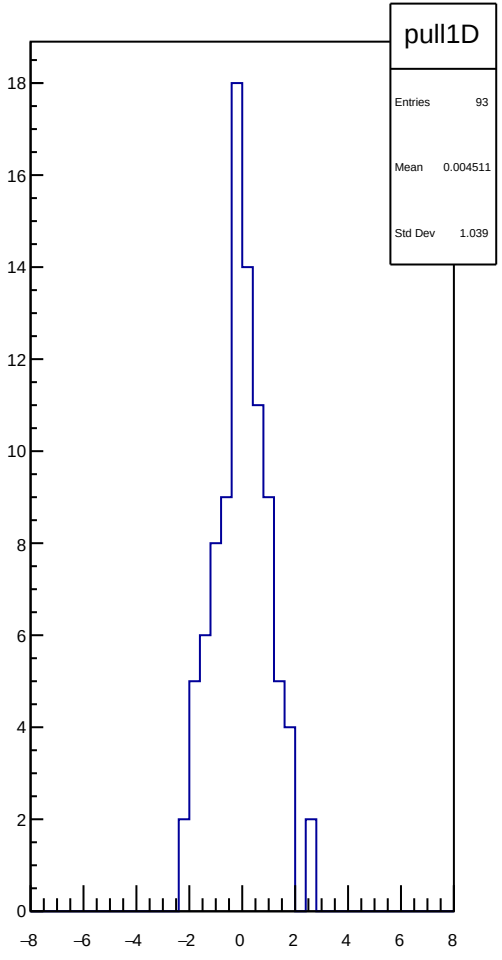

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.63e+04 / 92
p0 88.47 ± 0.06563
220
200
180
160
140
120
100
80

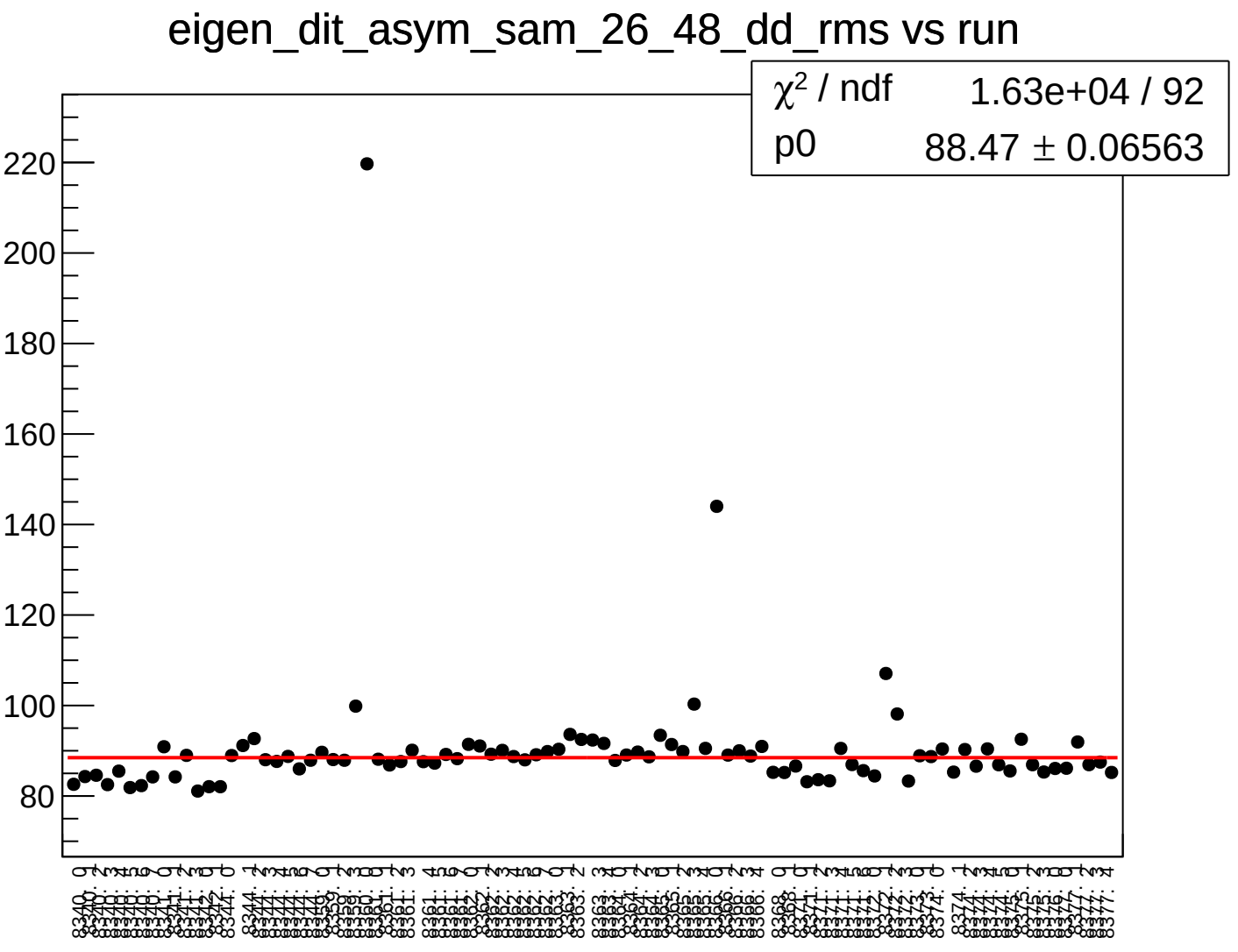

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 99.9 / 92
p0 2556 ± 718.1
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −194
Std Dev 0
3
2
1
0
−1
−2

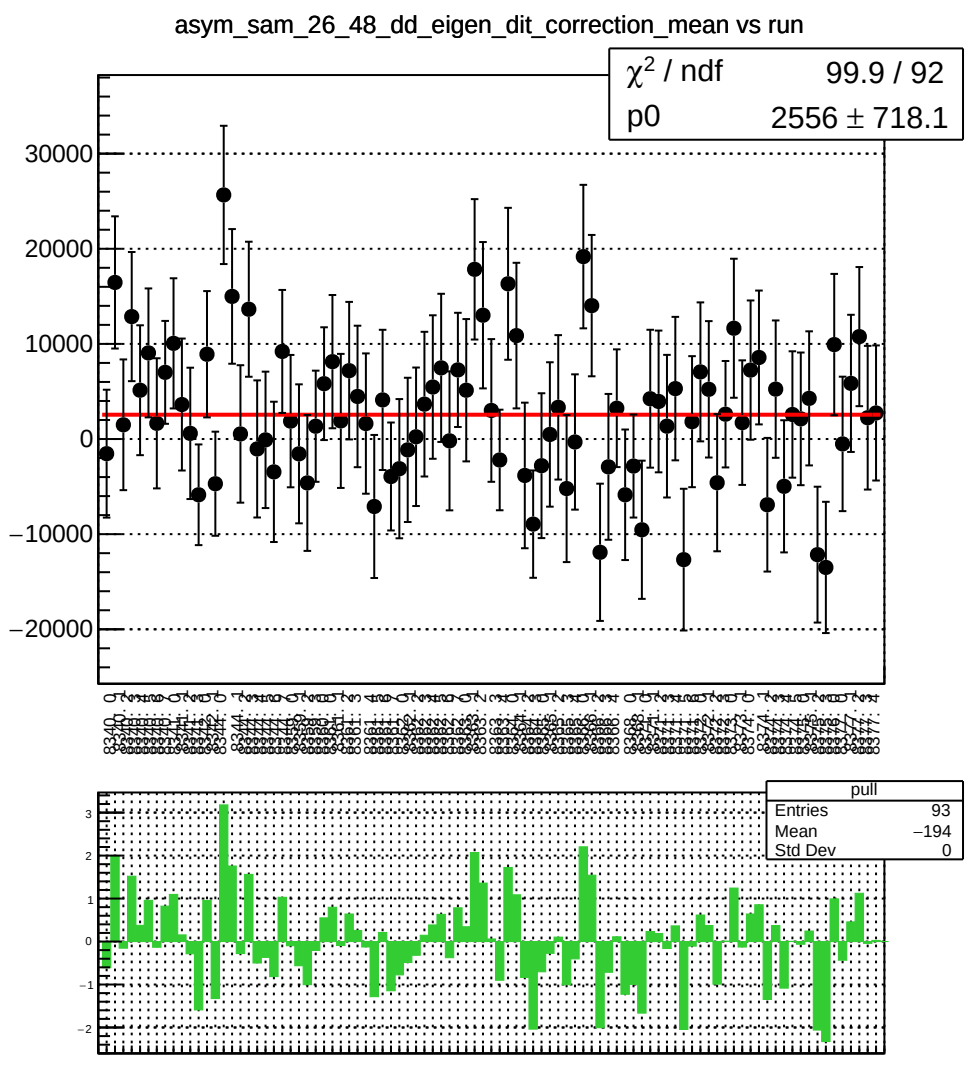

pull1D
Entries 93
Mean 0.0224
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

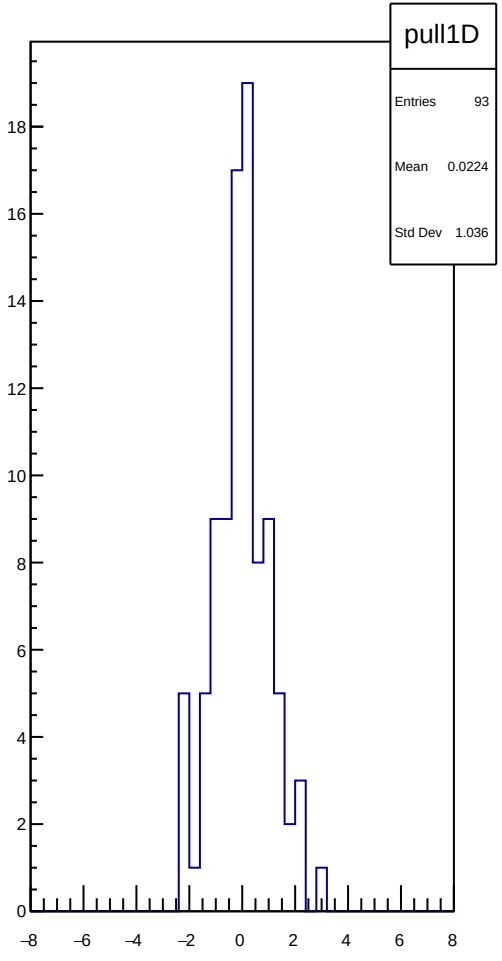

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 2687 / 92
p0 687 ± 0.5077
760
740
720
700
680
660
640
620

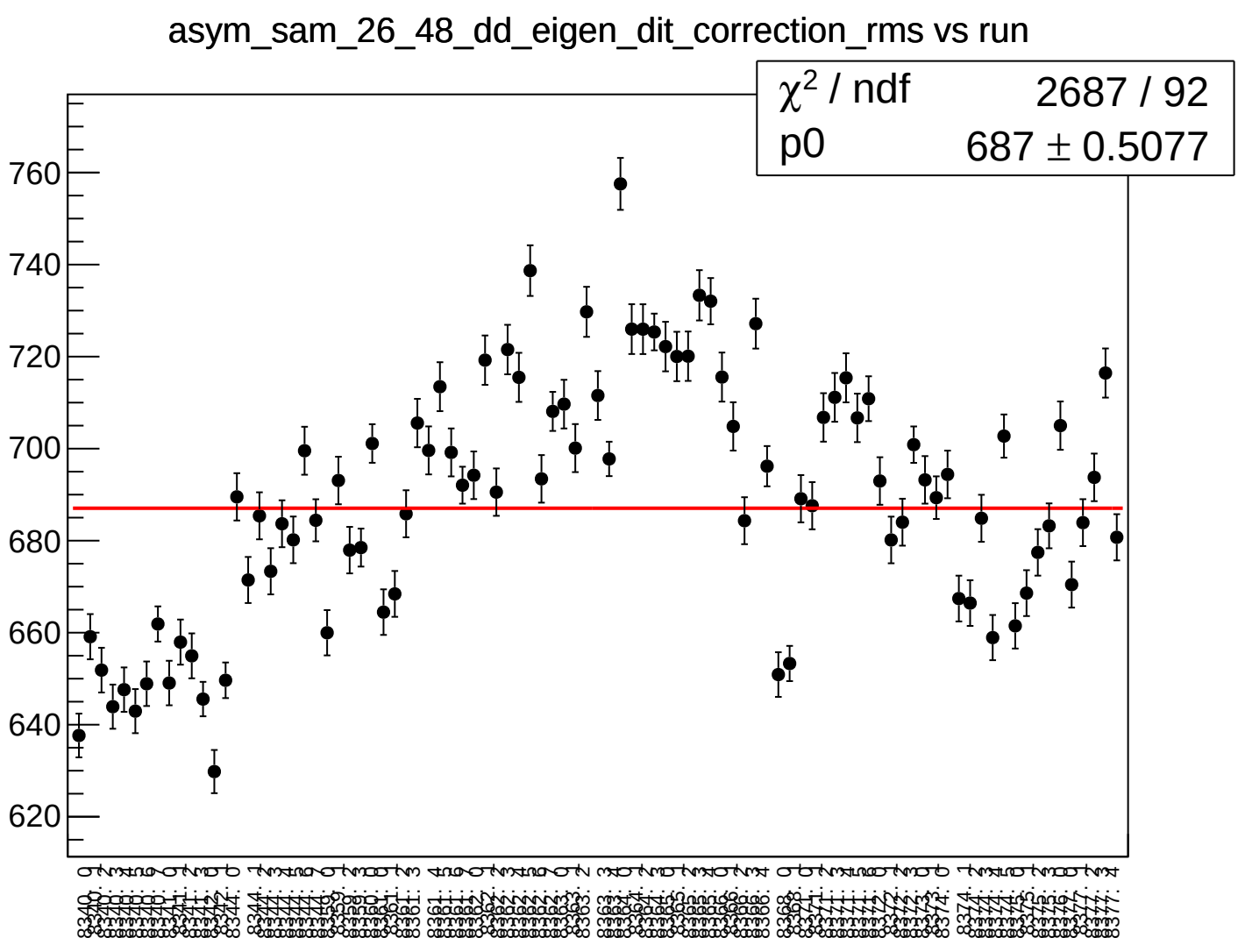

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 100.3 / 92
p0 218.7 ± 92.81
pull
Entries 93
Mean −313.8
Std Dev 0

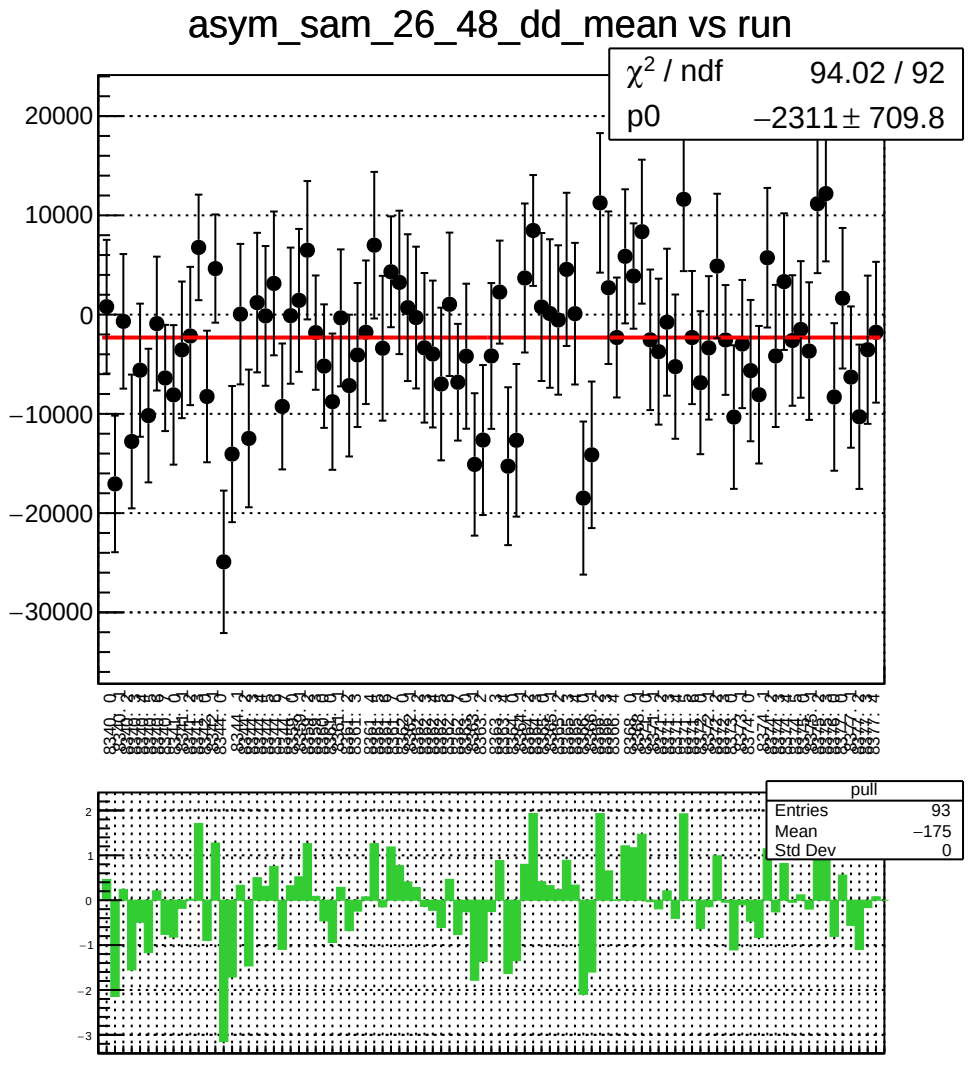

pull1D
Entries 93
Mean 0.004511
Std Dev 1.039

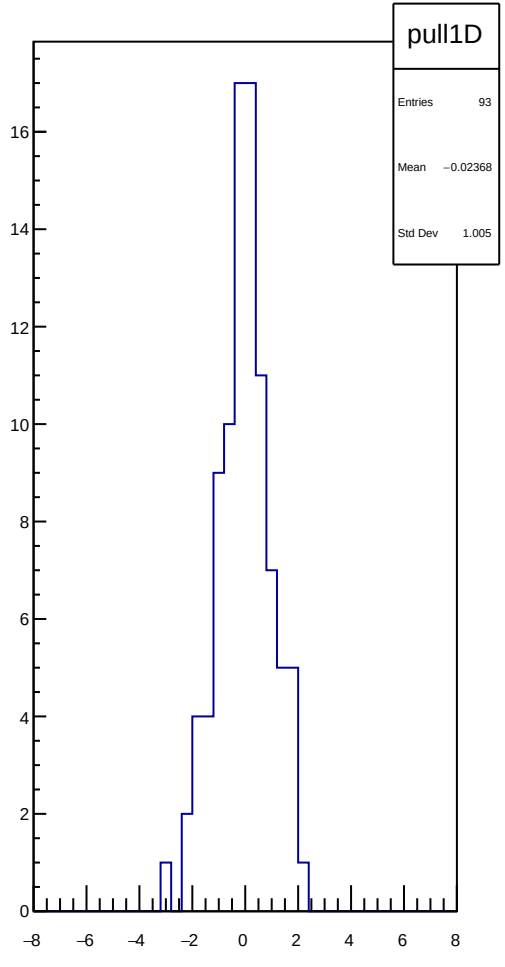

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.63e+04 / 92
p0 88.47 ± 0.06563
220
200
180
160
140
120
100
80

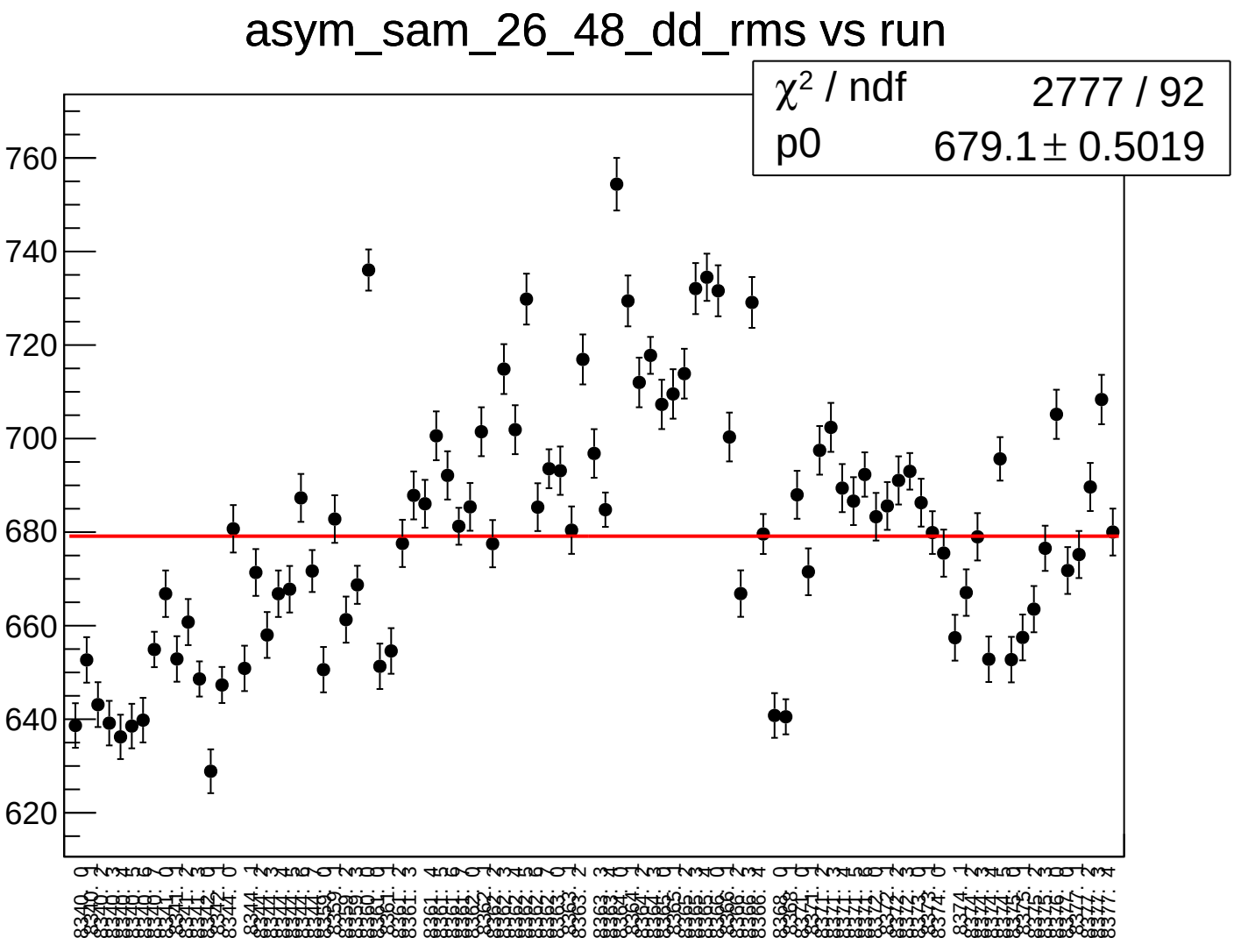

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.9 / 92
p0 2556 ± 718.1
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −194
Std Dev 0
3
2
1
0
−1
−2

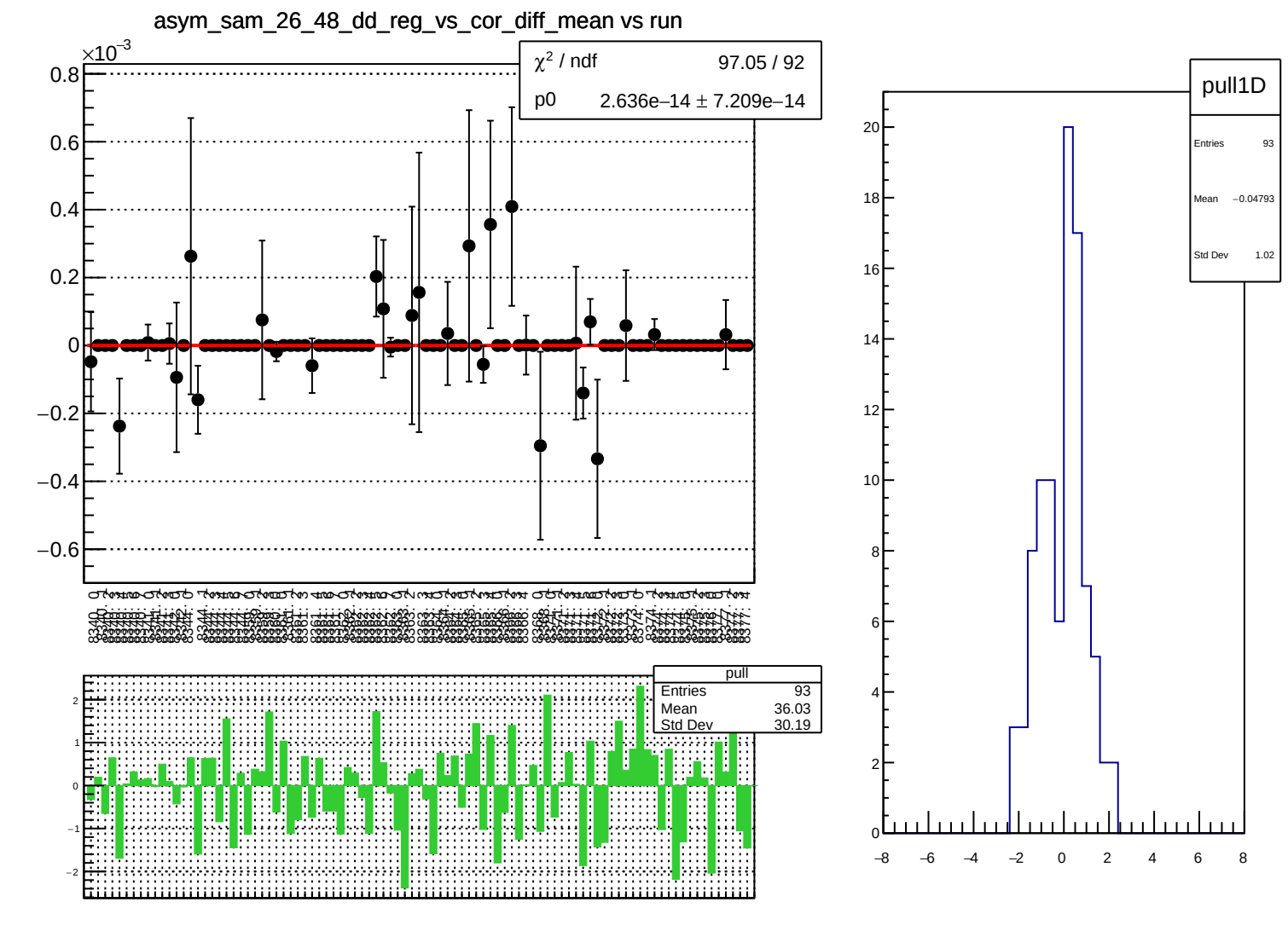

pull1D
Entries 93
Mean 0.0224
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

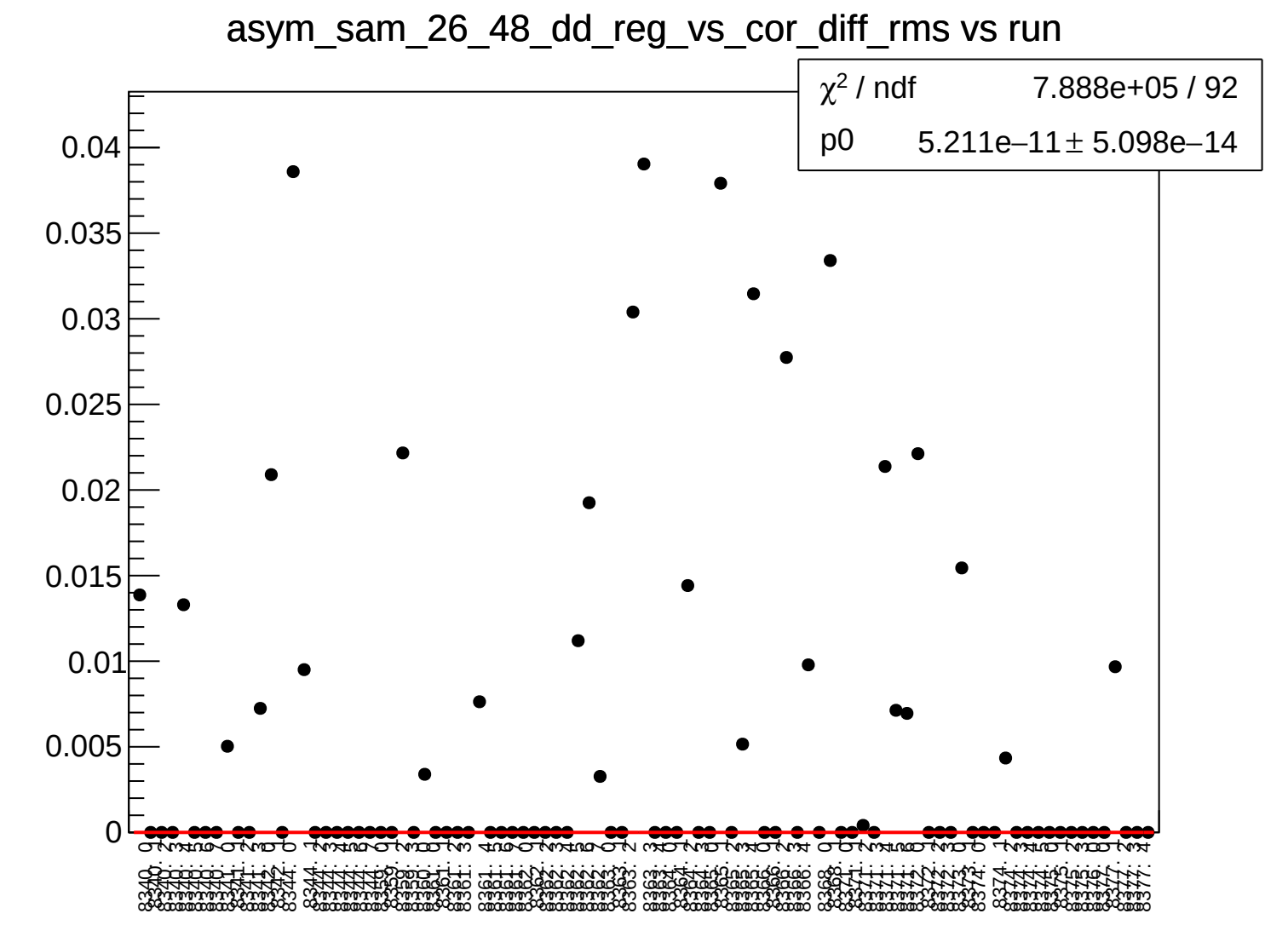

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2687 / 92
p0 687 ± 0.5077
760
740
720
700
680
660
640
620

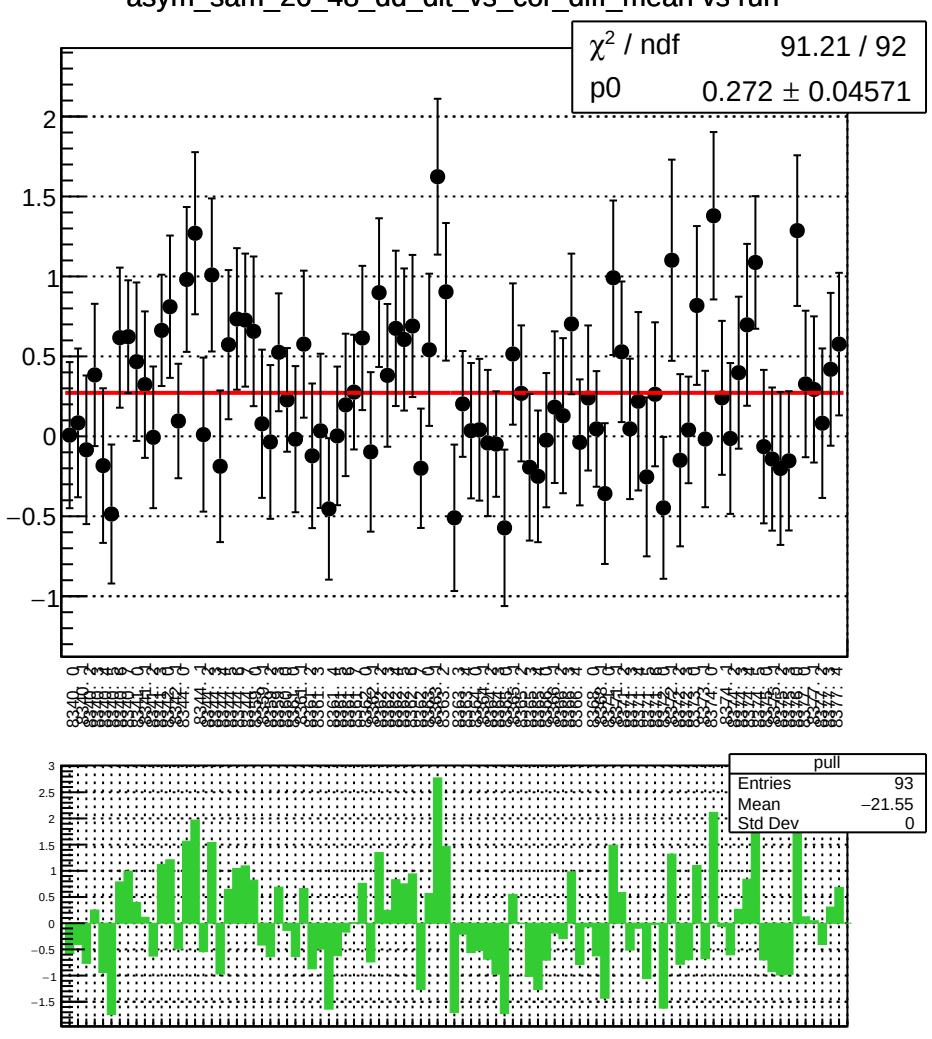

asym_sam_26_48_dd_mean vs run
χ² / ndf 94.02 / 92
p0 −2311 ± 709.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −175
Std Dev 0
2
1
0
−1
−2
−3

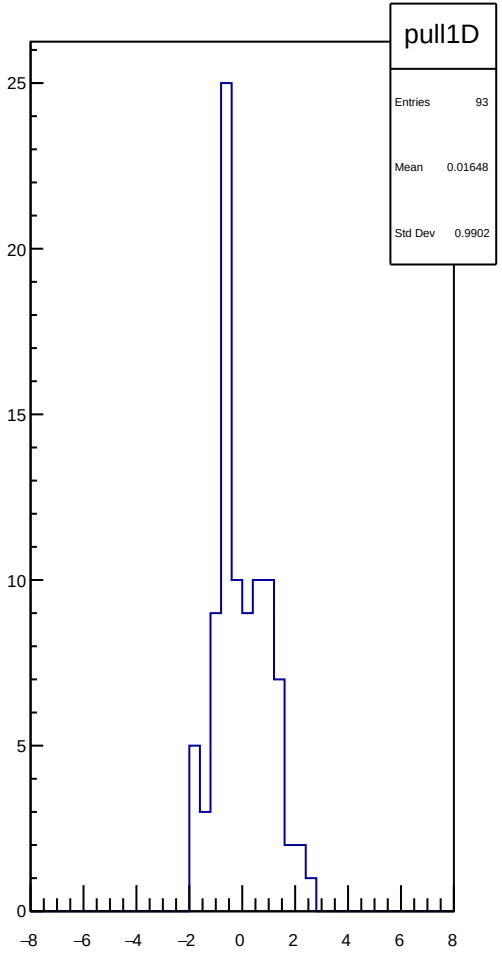

pull1D
Entries 93
Mean −0.02368
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

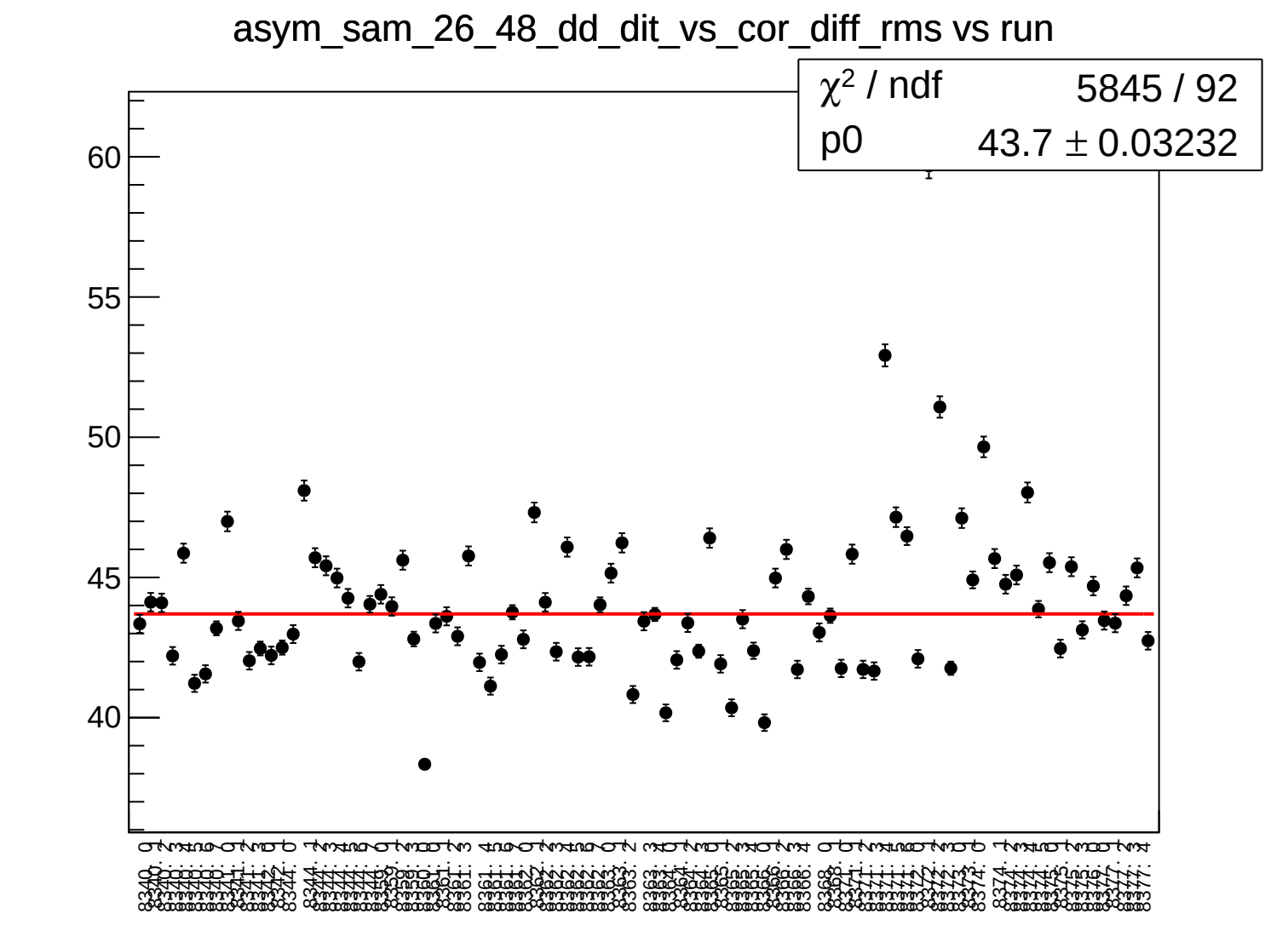

asym_sam_26_48_dd_rms vs run
χ² / ndf 2777 / 92
p0 679.1 ± 0.5019
760
740
720
700
680
660
640
620

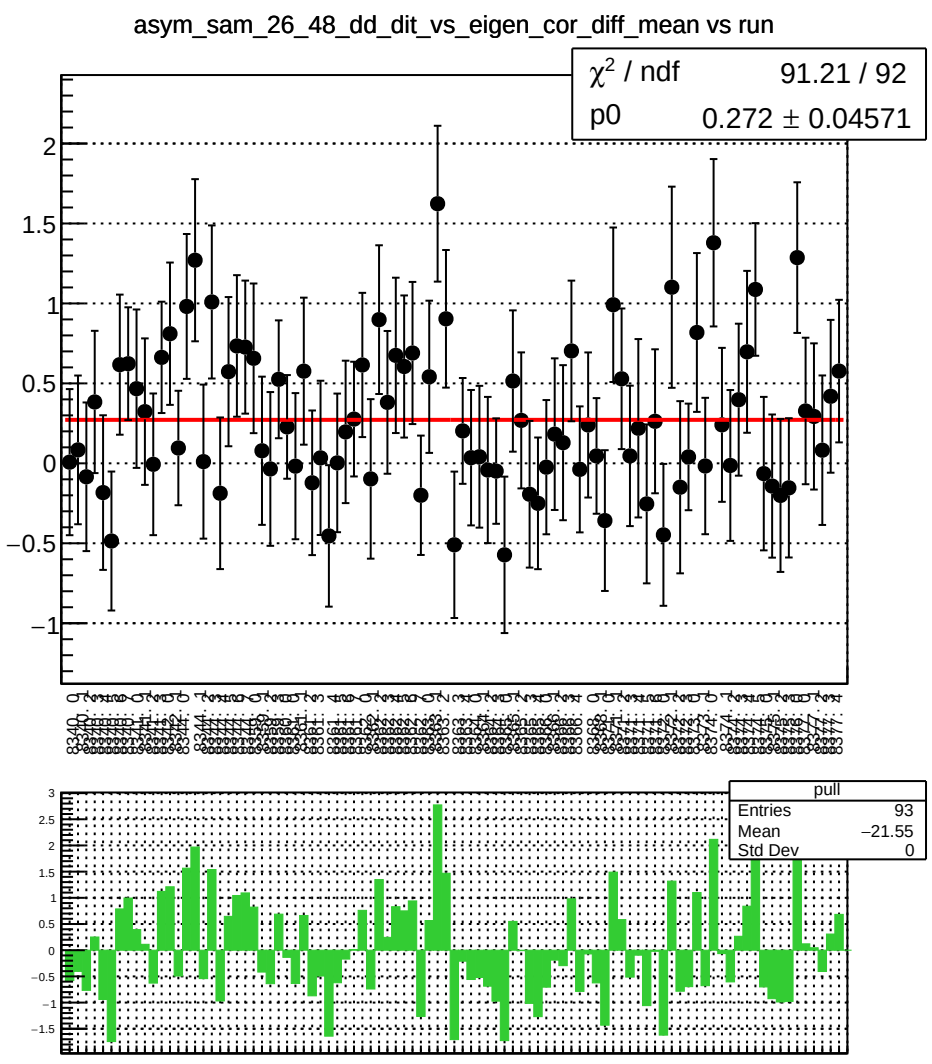

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 97.05 / 92
p0 2.636e−14 ± 7.209e−14
pull
Entries 93
Mean 36.03
Std Dev 30.19
pull1D
Entries 93
Mean −0.04793
Std Dev 1.02

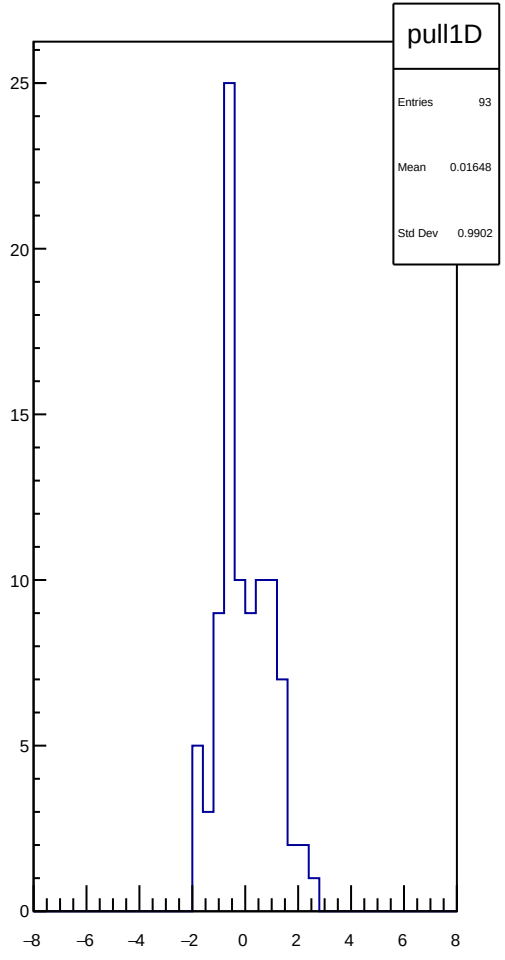

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 7.888e+05 / 92
p0 5.211e−11 ± 5.098e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

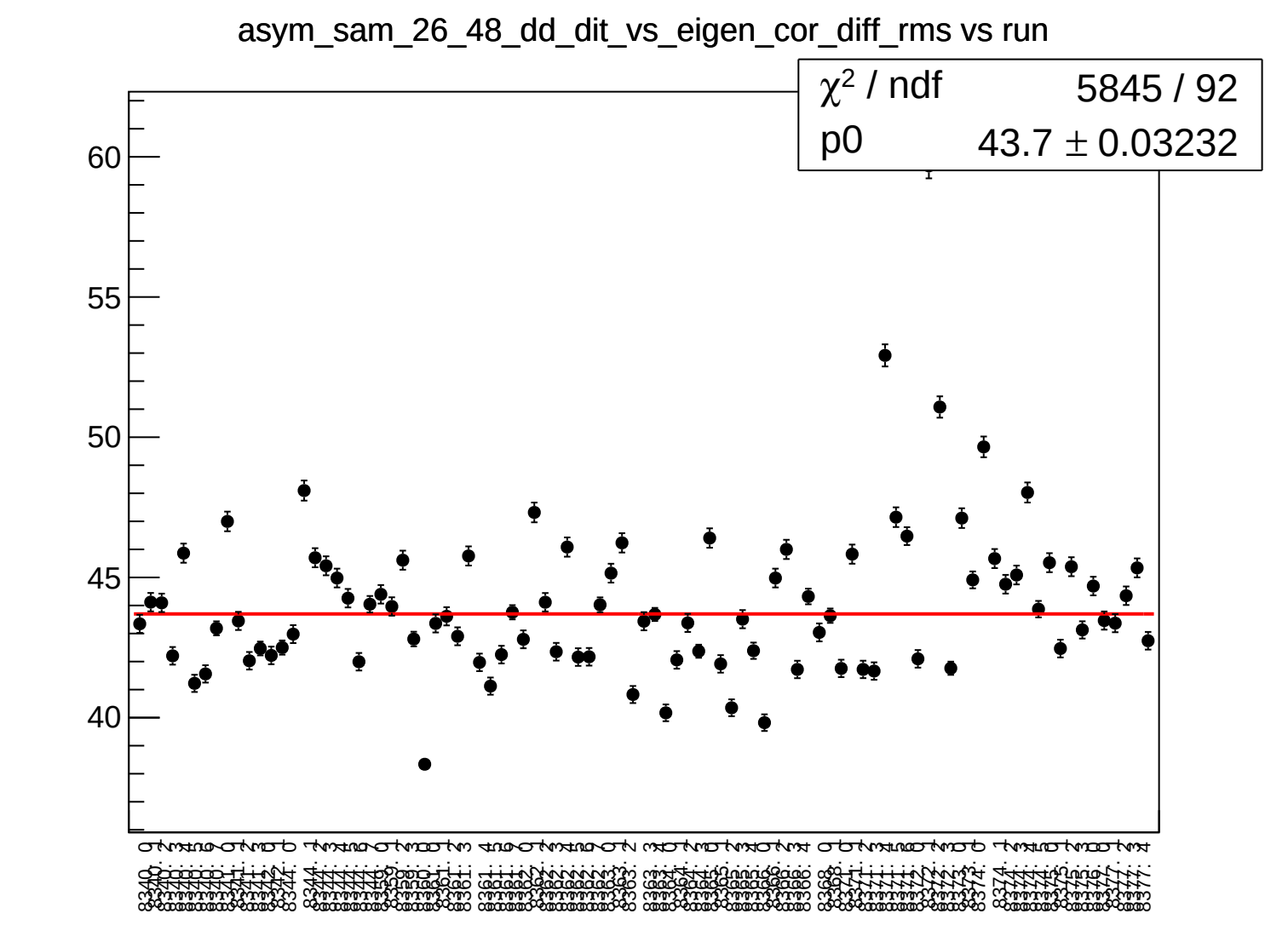

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 92
p0 0.272 ± 0.04571
pull
Entries 93
Mean −21.55
Std Dev 0

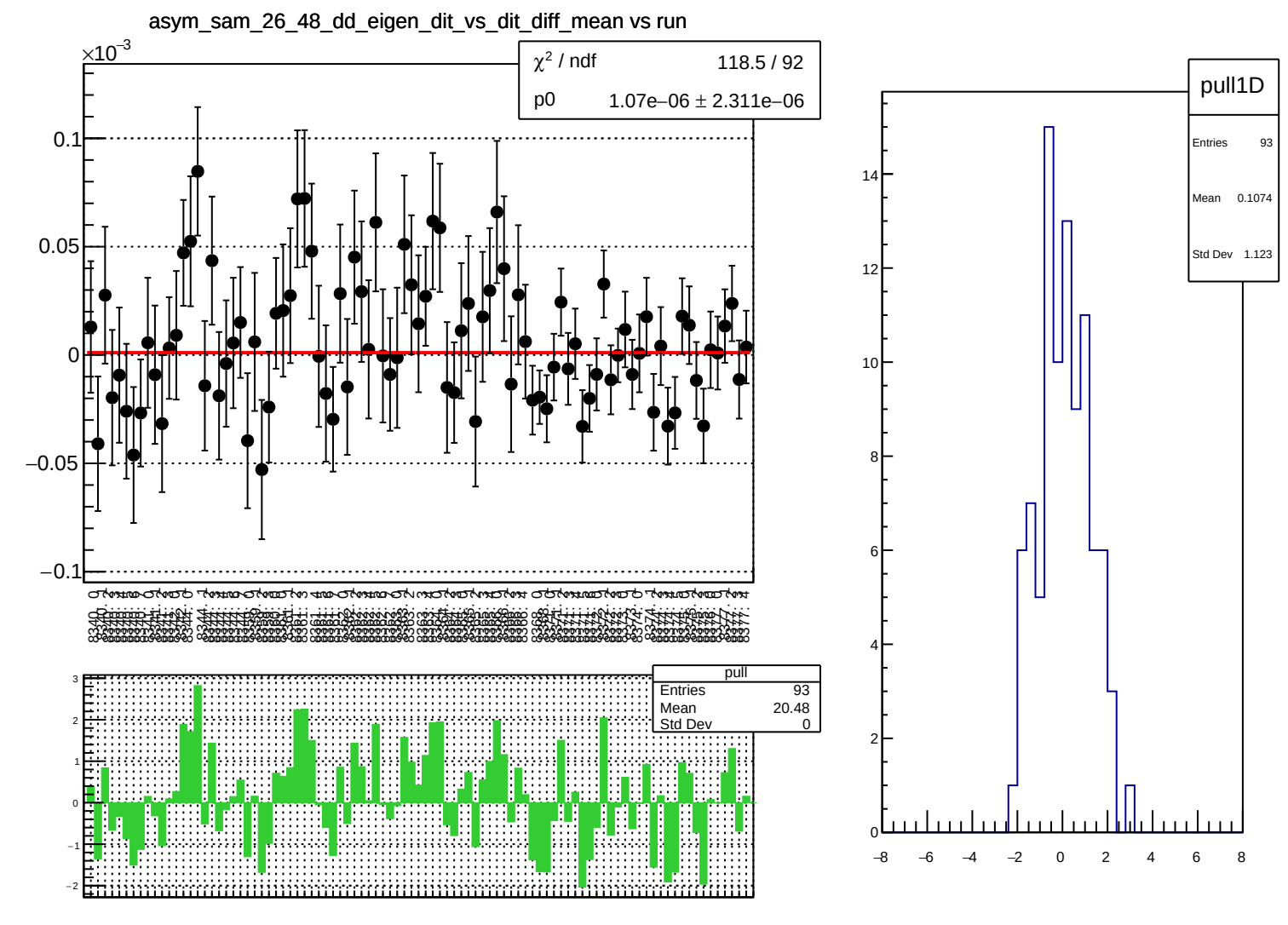

pull1D
Entries 93
Mean 0.01648
Std Dev 0.9902

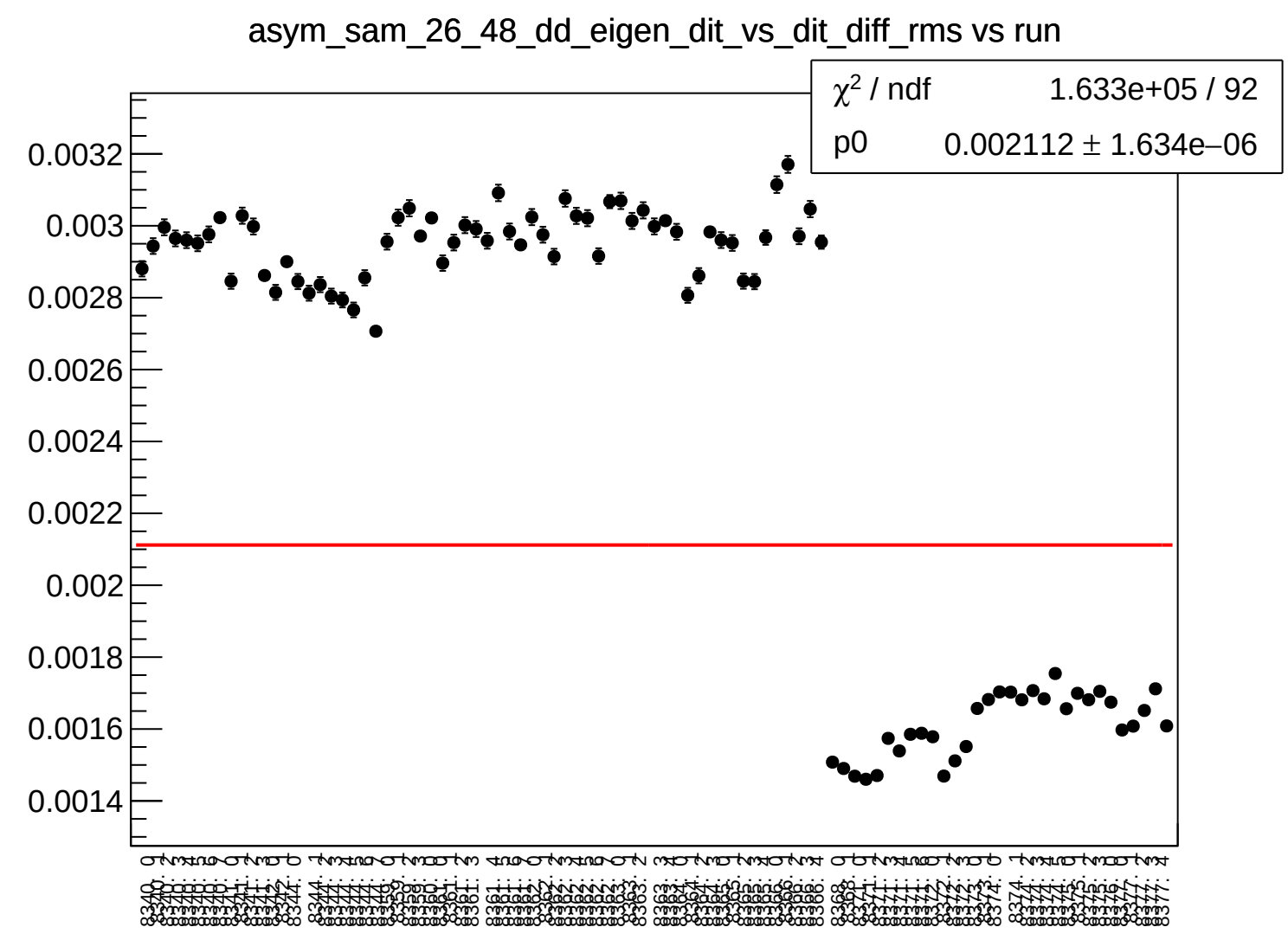

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5845 / 92
p0 43.7 ± 0.03232
60
55
50
45
40

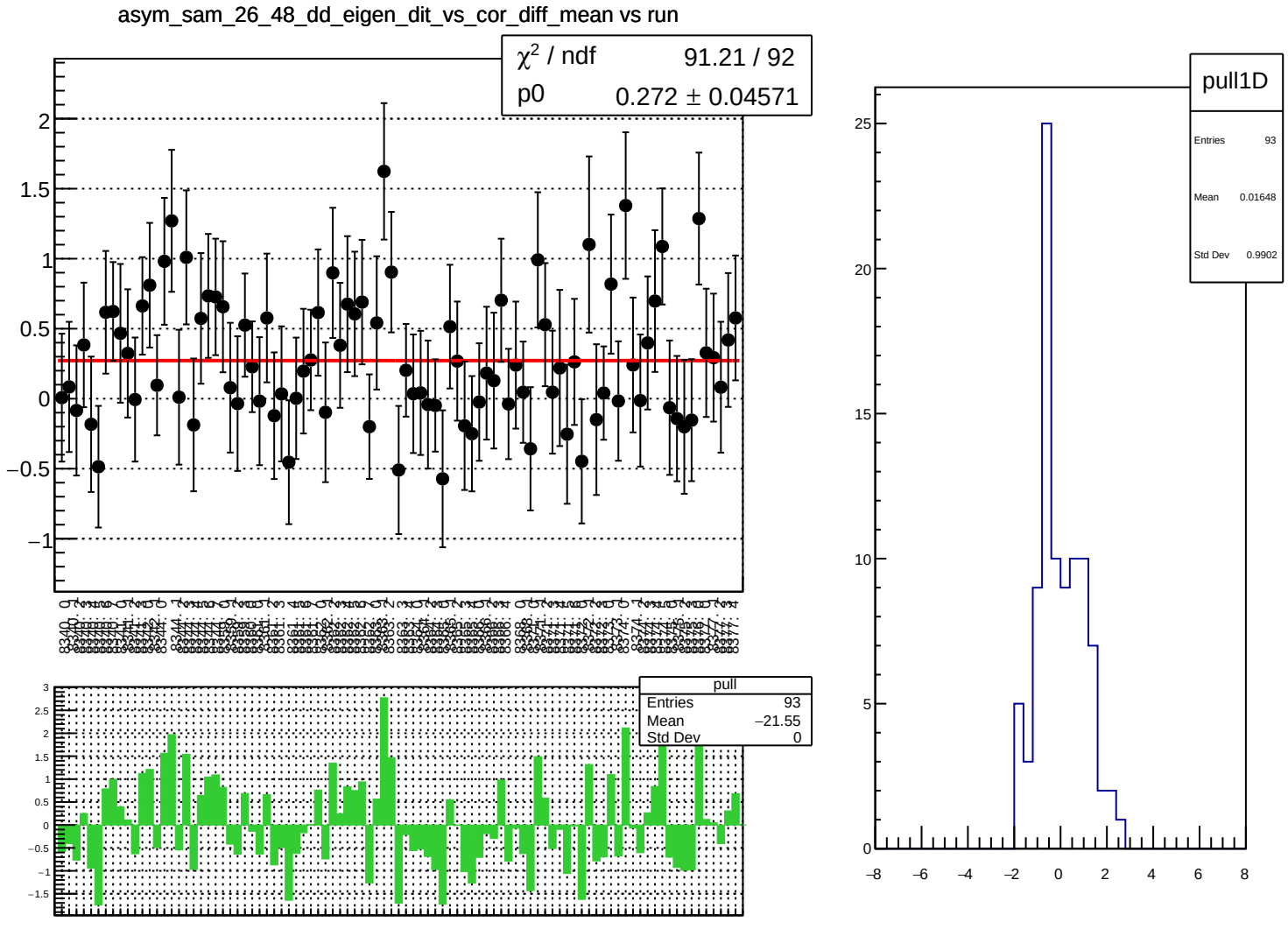

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.21 / 92
p0 0.272 ± 0.04571
pull
Entries 93
Mean −21.55
Std Dev 0

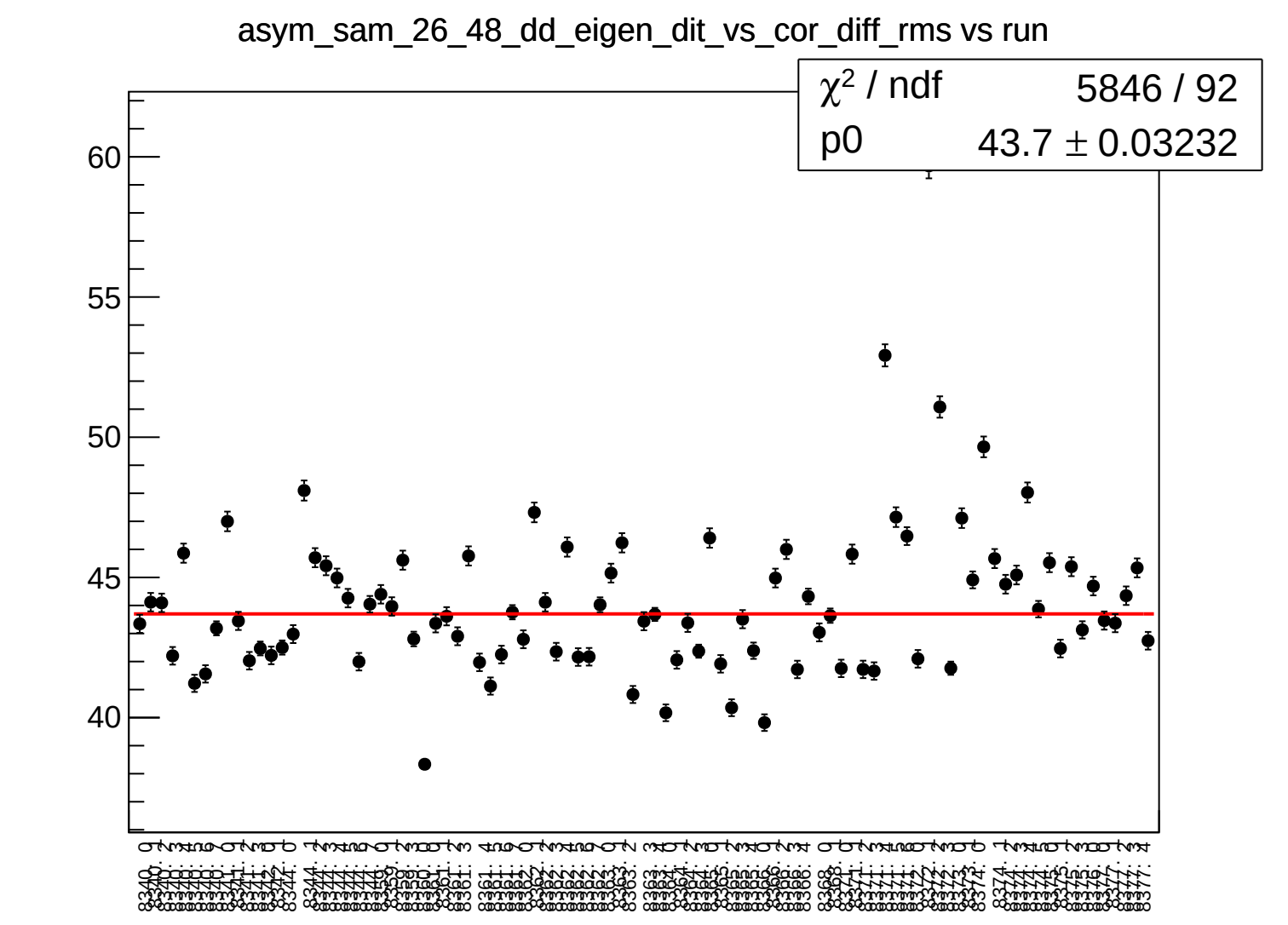

pull1D
Entries 93
Mean 0.01648
Std Dev 0.9902

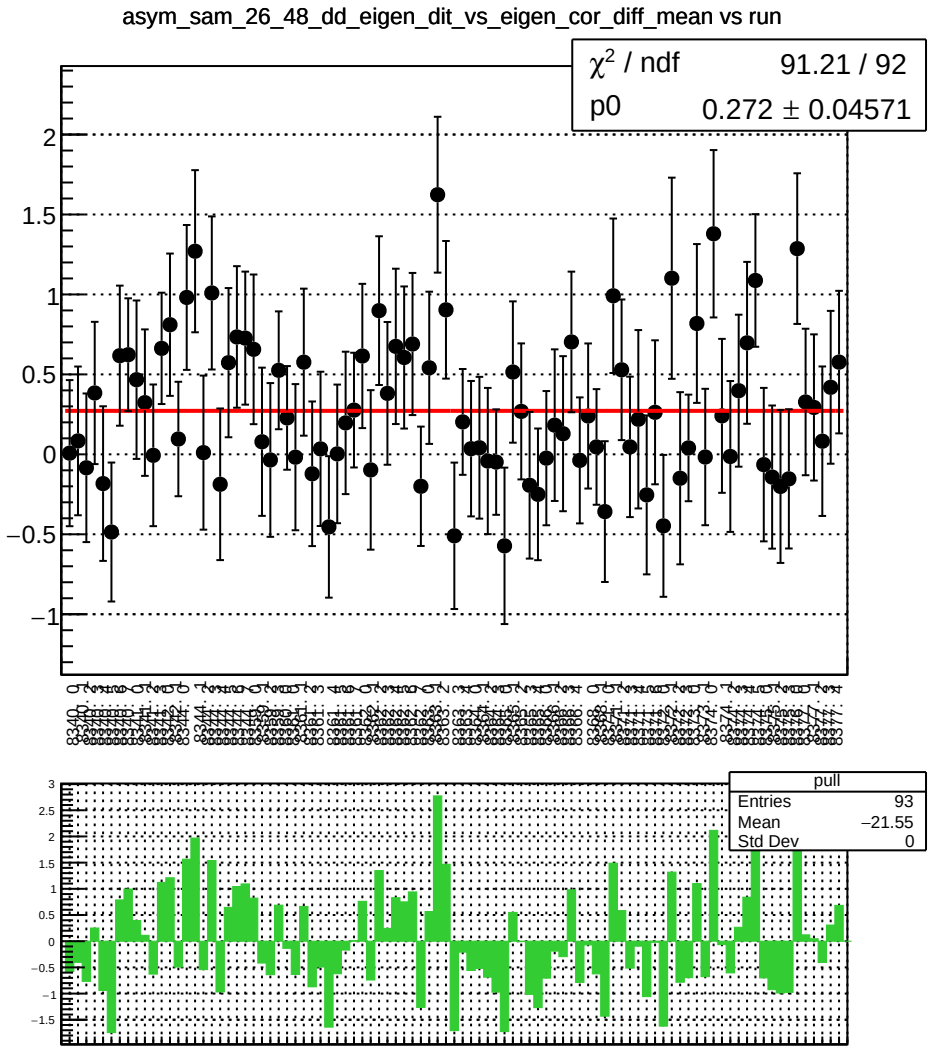

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5845 / 92
p0 43.7 ± 0.03232
60
55
50
45
40

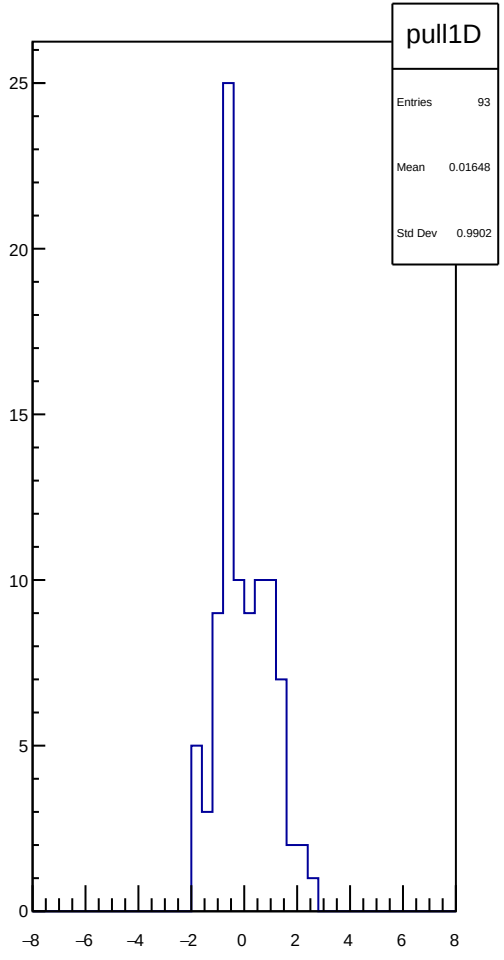

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.5 / 92
p0 1.07e−06 ± 2.311e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 20.48
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1074
Std Dev 1.123
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

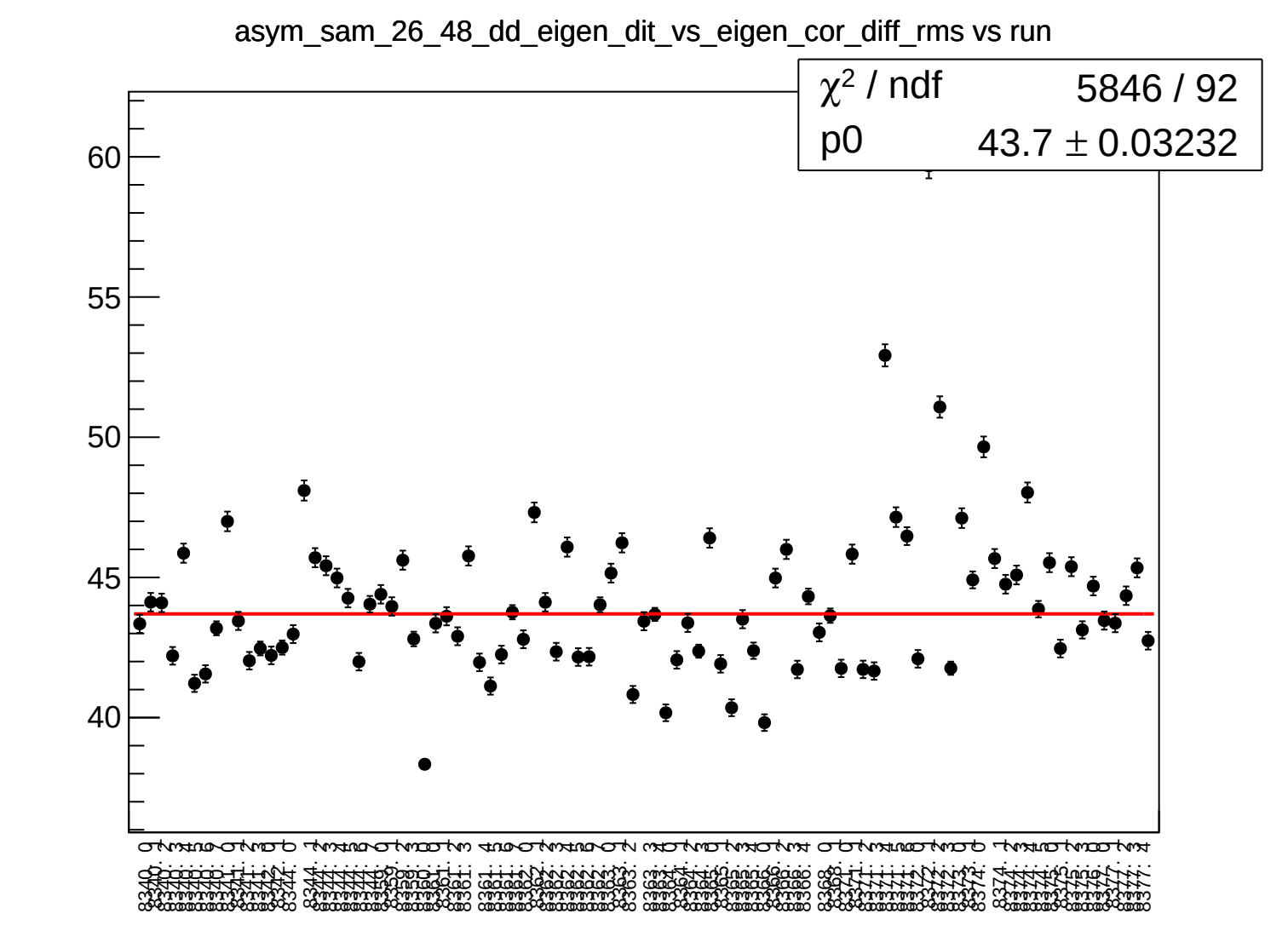

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.633e+05 / 92
p0 0.002112 ± 1.634e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

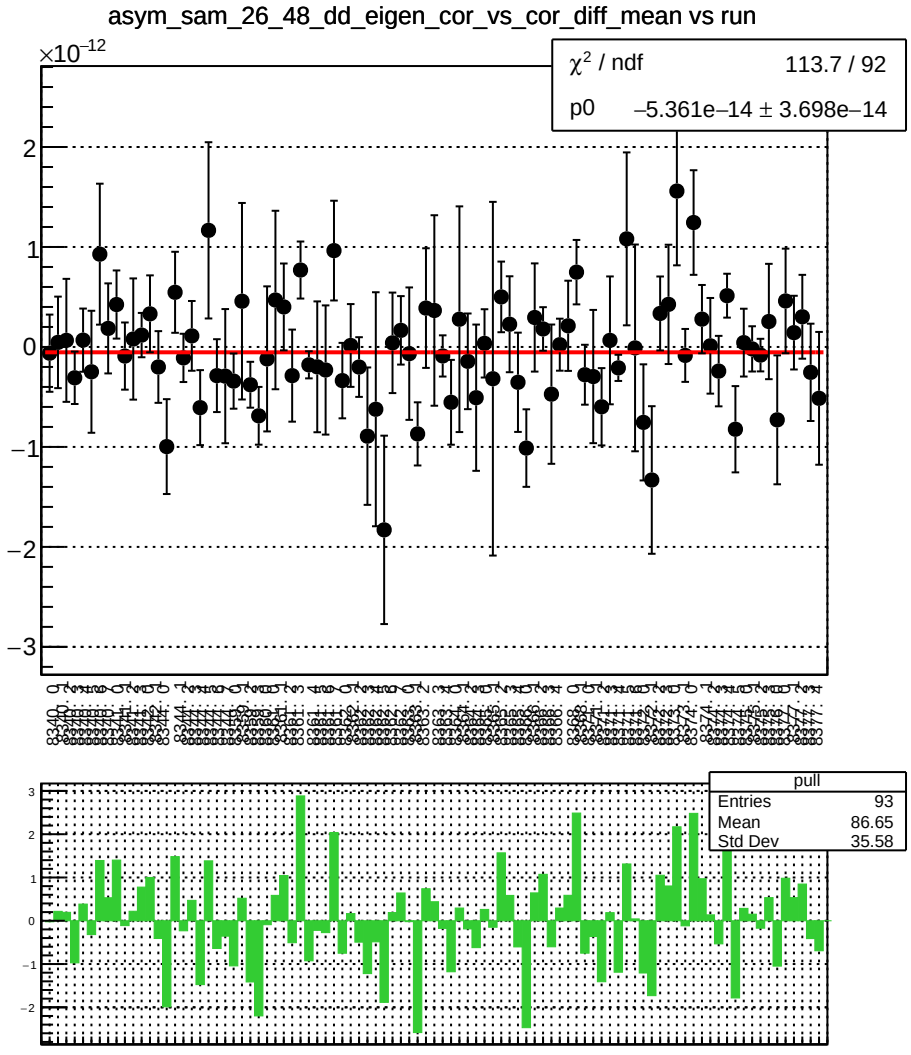

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.21 / 92
p0 0.272 ± 0.04571
pull
Entries 93
Mean −21.55
Std Dev 0
pull1D
Entries 93
Mean 0.01648
Std Dev 0.9902

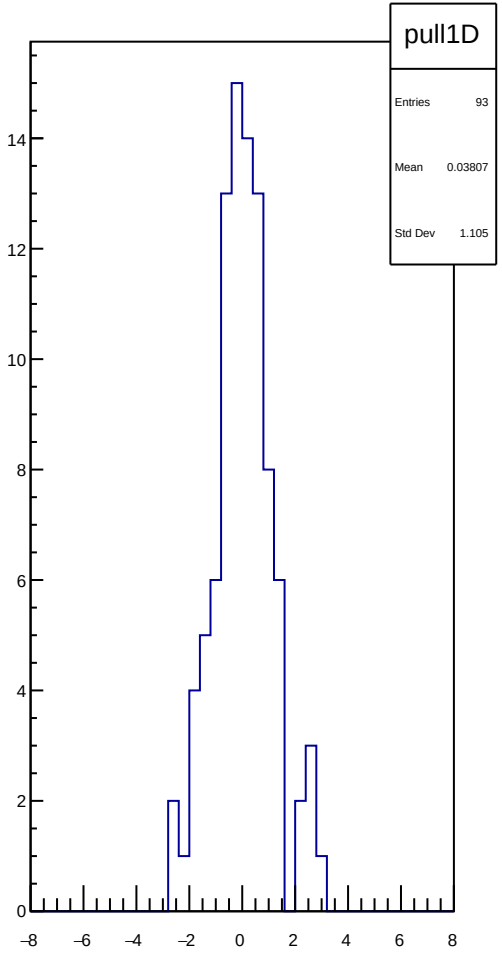

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5846 / 92
p0 43.7 ± 0.03232
60
55
50
45
40

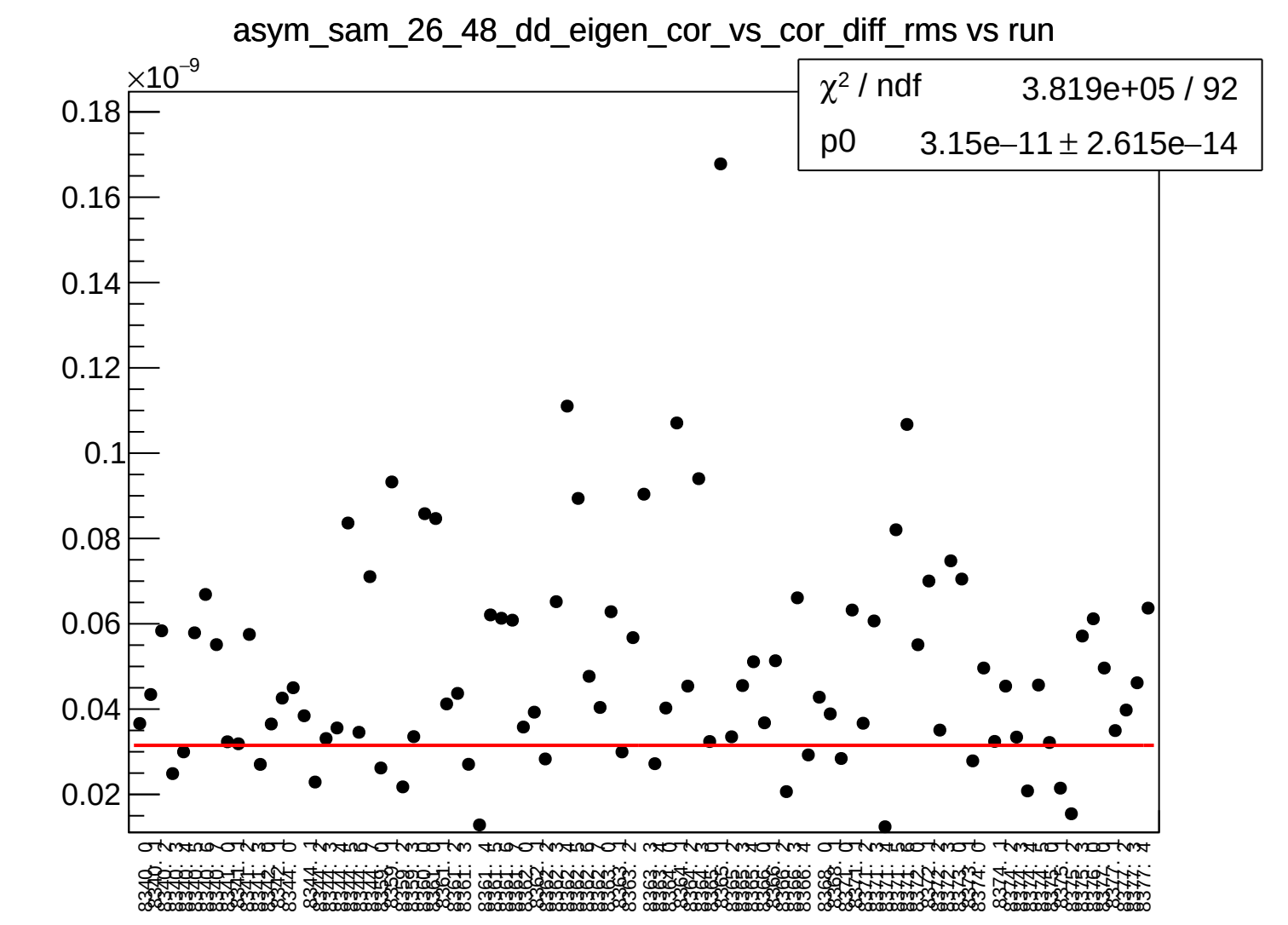

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.21 / 92
p0 0.272 ± 0.04571
pull
Entries 93
Mean −21.55
Std Dev 0

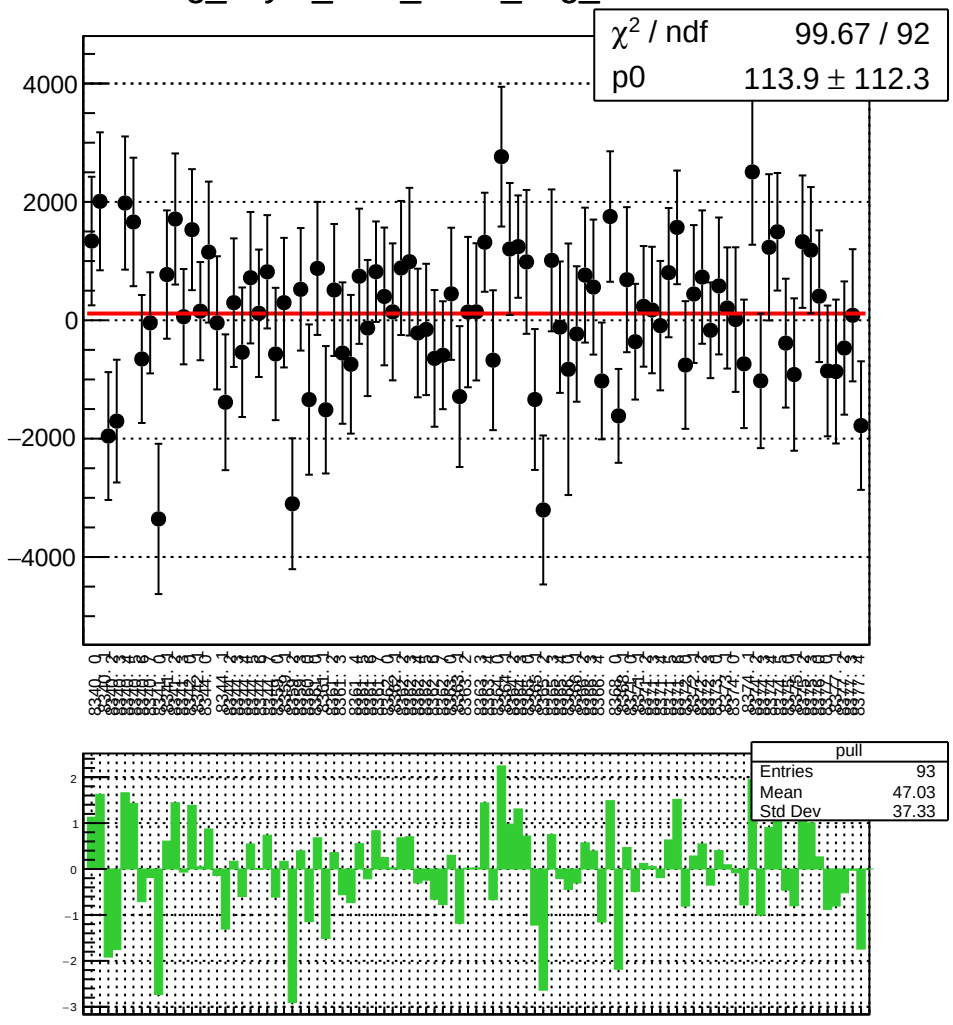

pull1D
Entries 93
Mean 0.01648
Std Dev 0.9902

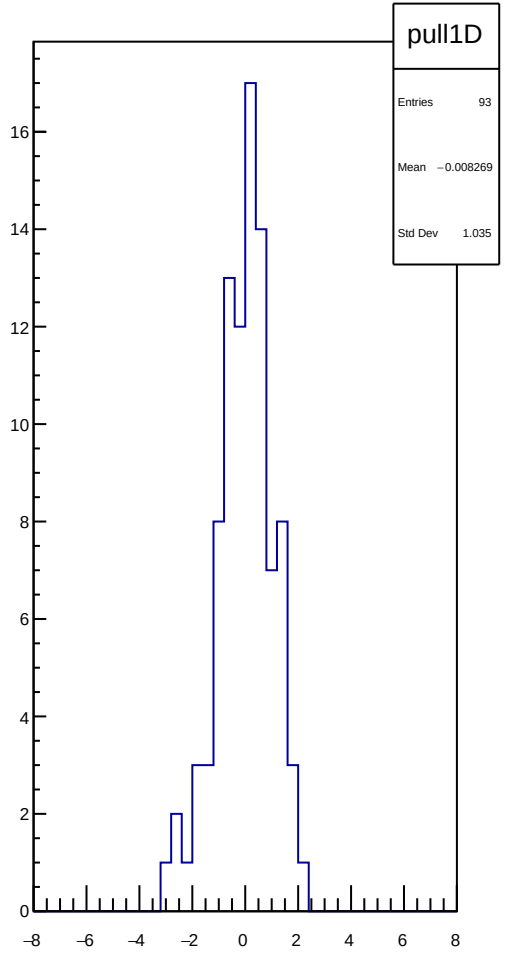

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5846 / 92
p0 43.7 ± 0.03232
60
55
50
45
40

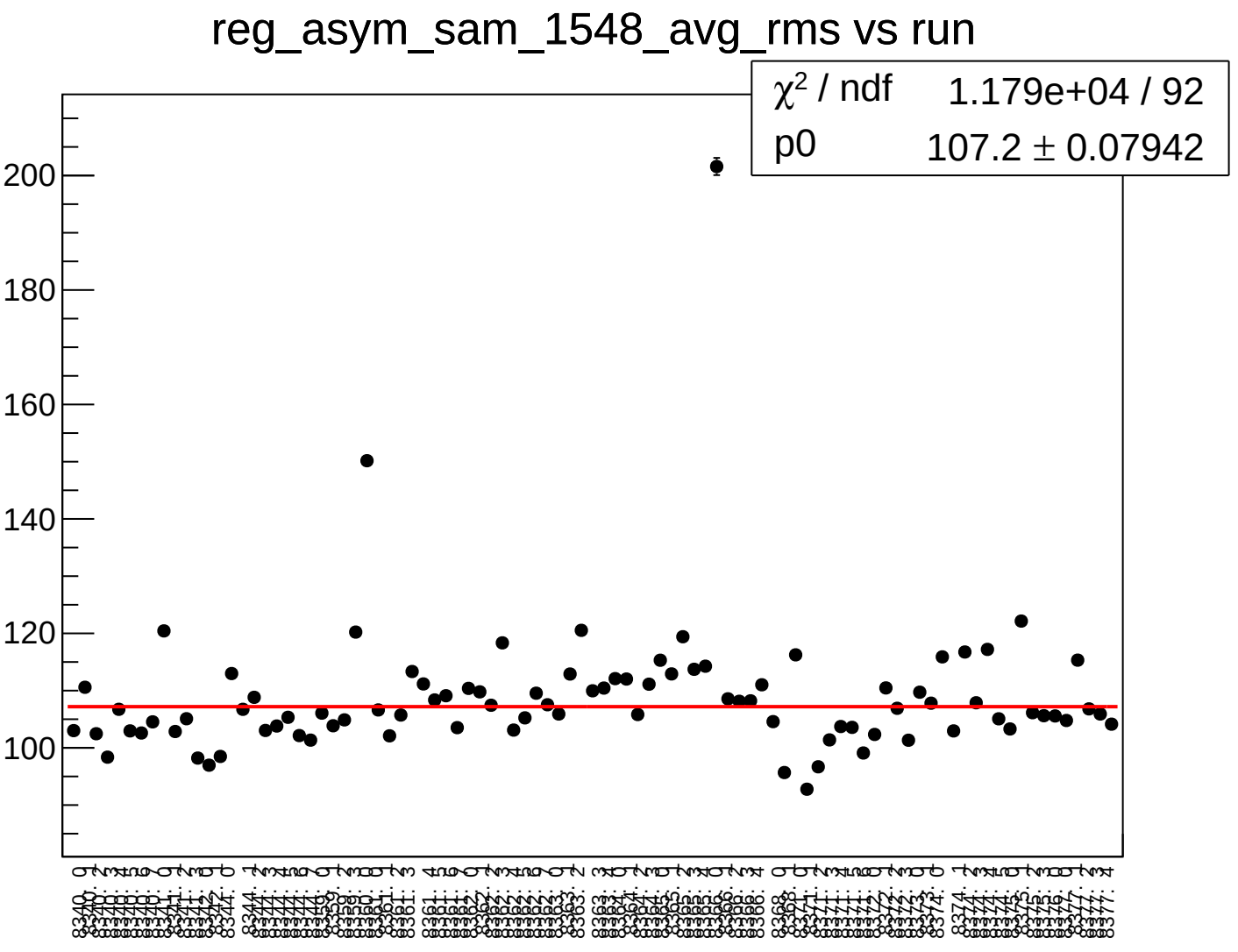

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.7 / 92
p0 −5.361e−14 ± 3.698e−14
pull
Entries 93
Mean 86.65
Std Dev 35.58

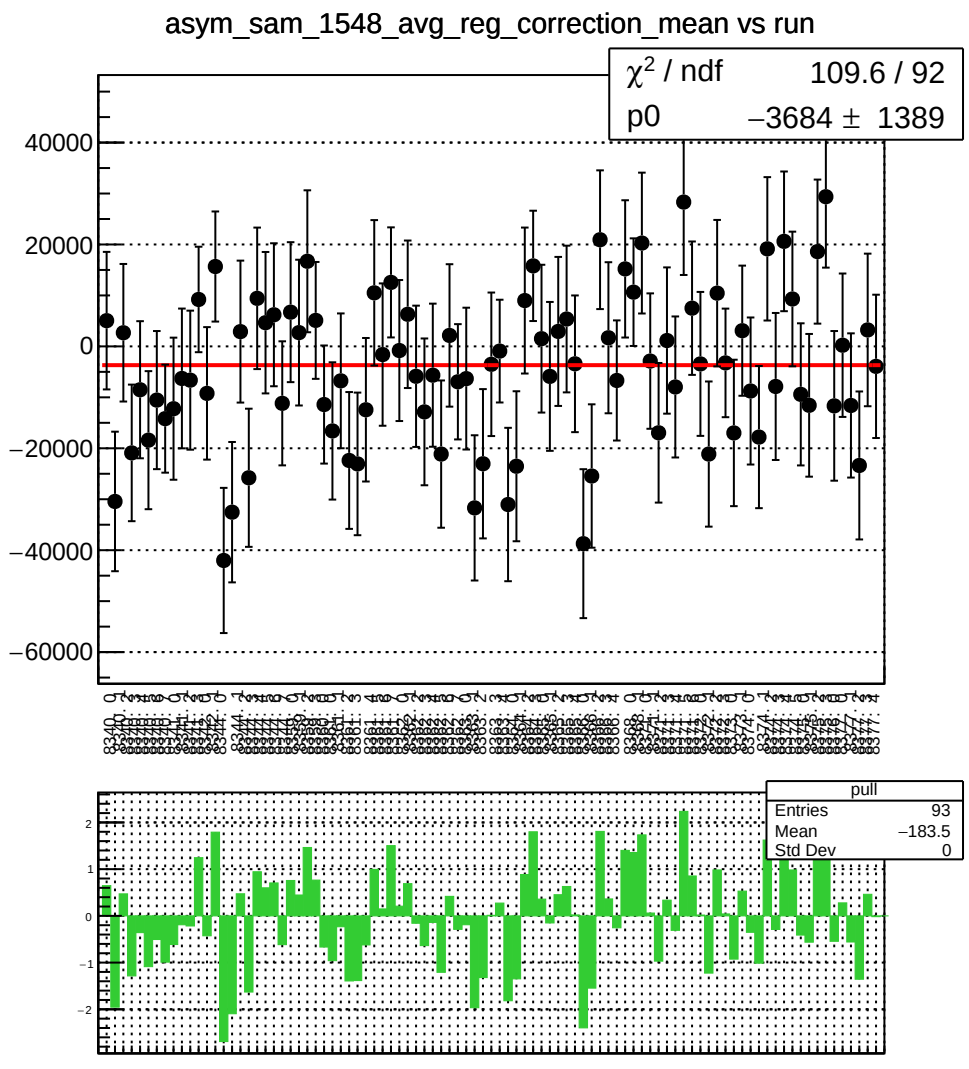

pull1D
Entries 93
Mean 0.03807
Std Dev 1.105

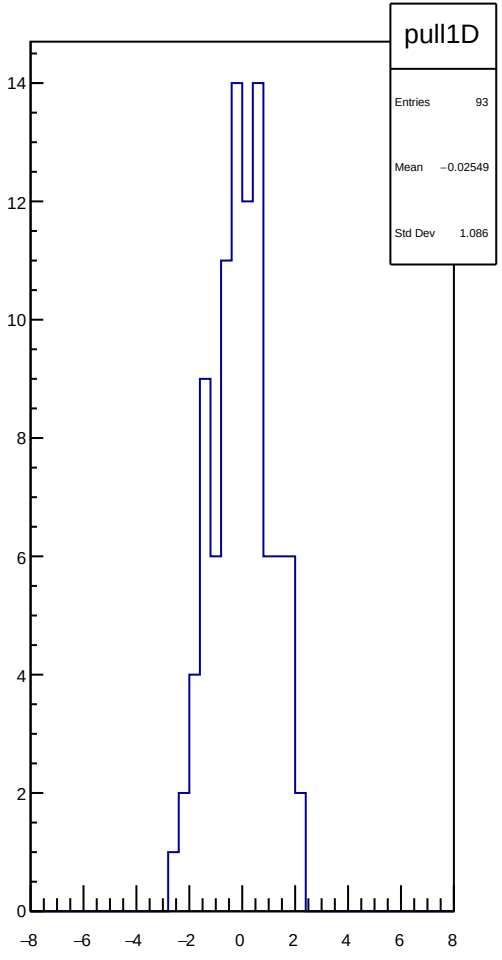

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.819e+05 / 92
p0 3.15e−11 ± 2.615e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

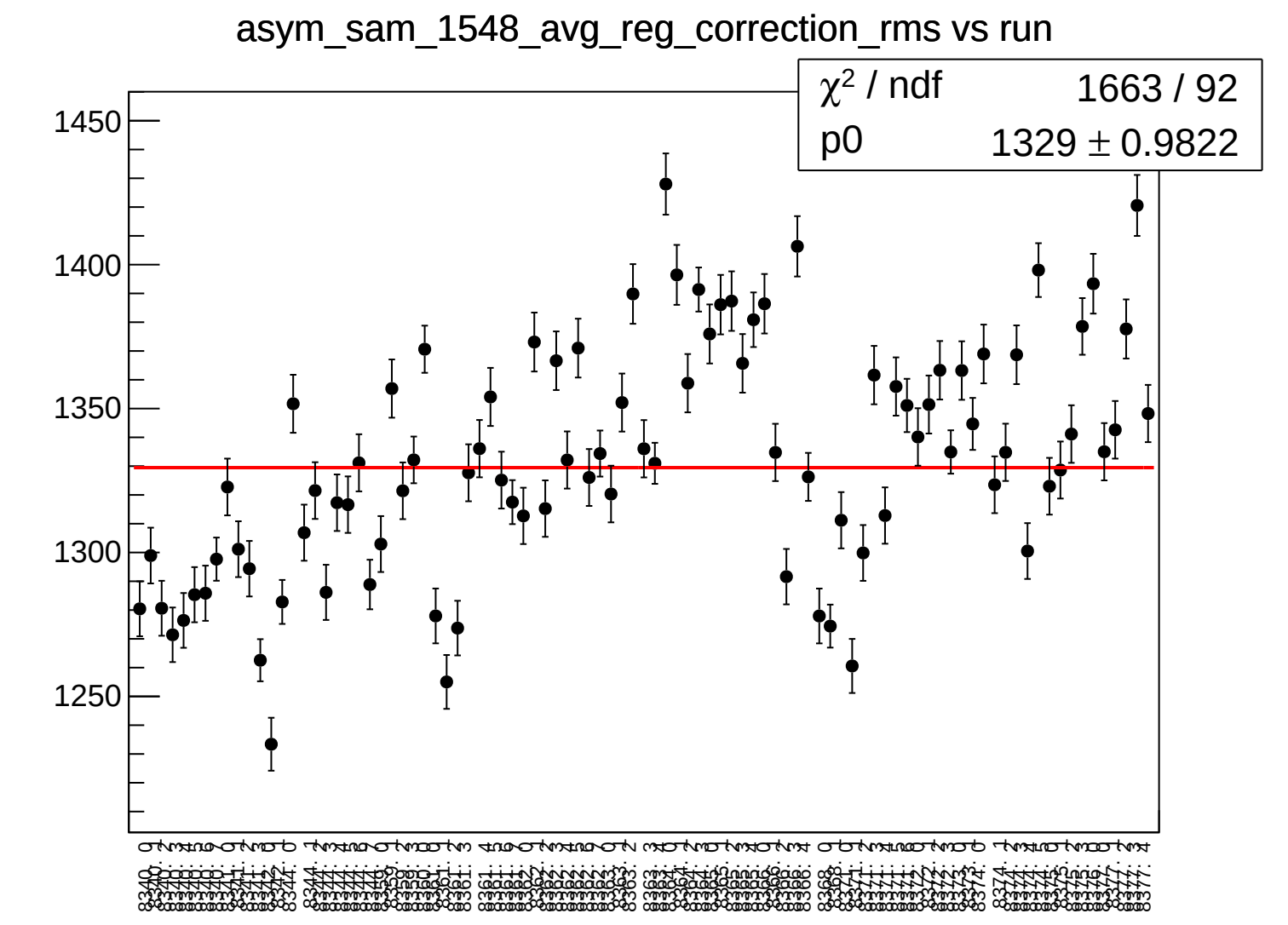

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 99.67 / 92
p0 113.9 ± 112.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 47.03
Std Dev 37.33
2
1
0
−1
−2
−3

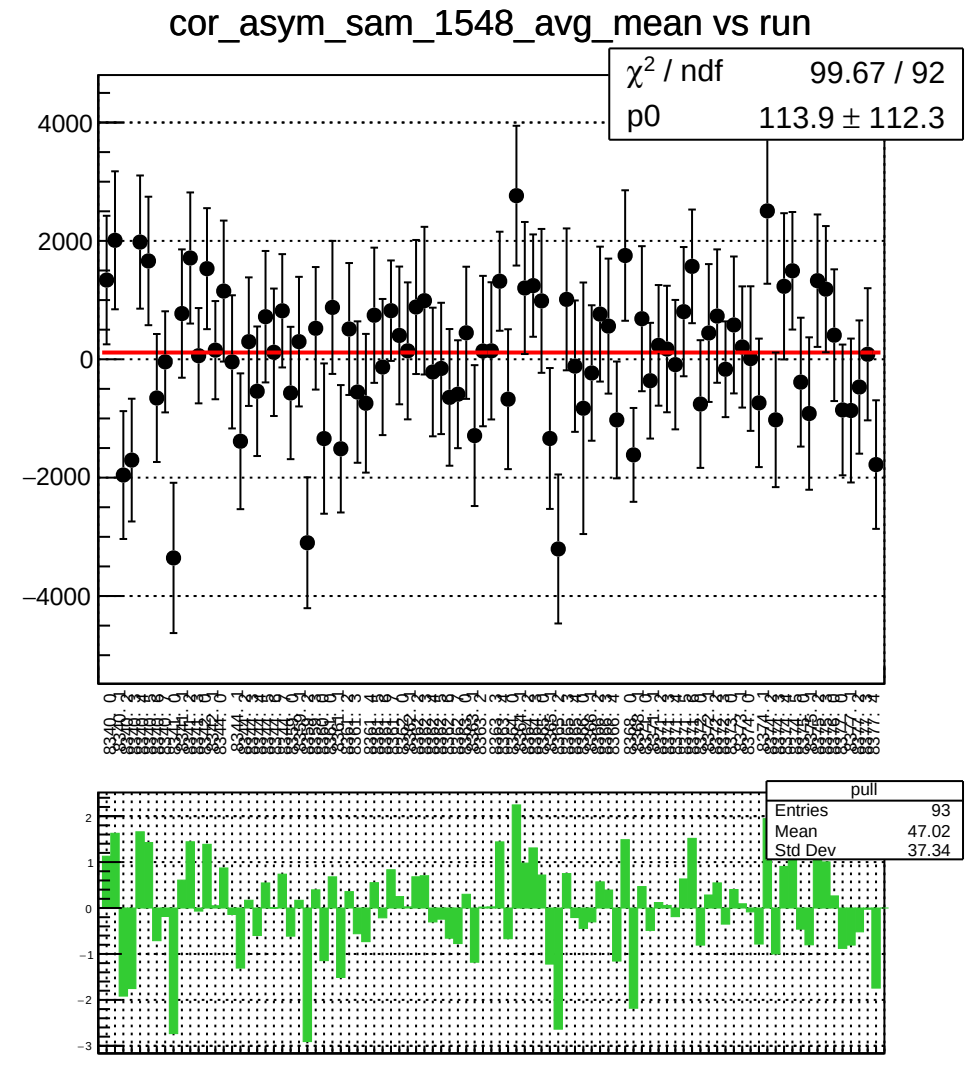

pull1D
Entries 93
Mean −0.008269
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

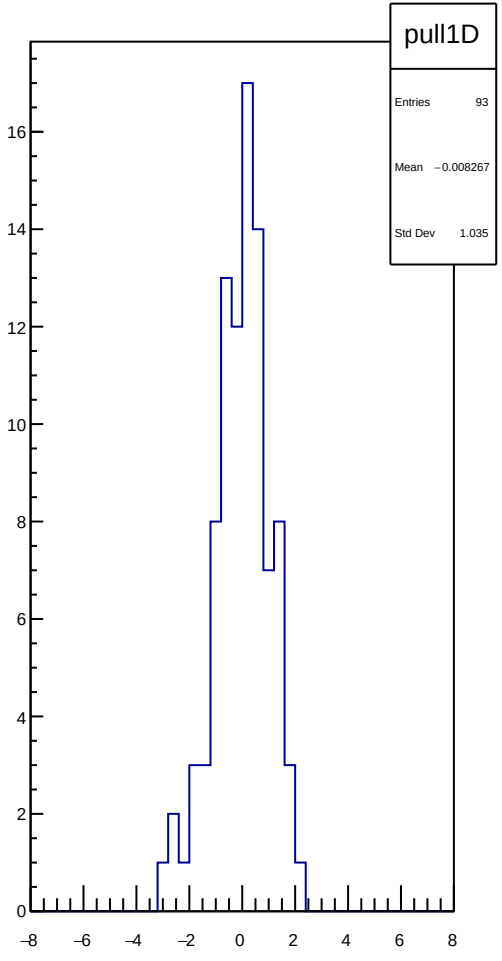

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.179e+04 / 92
p0 107.2 ± 0.07942
200
180
160
140
120
100

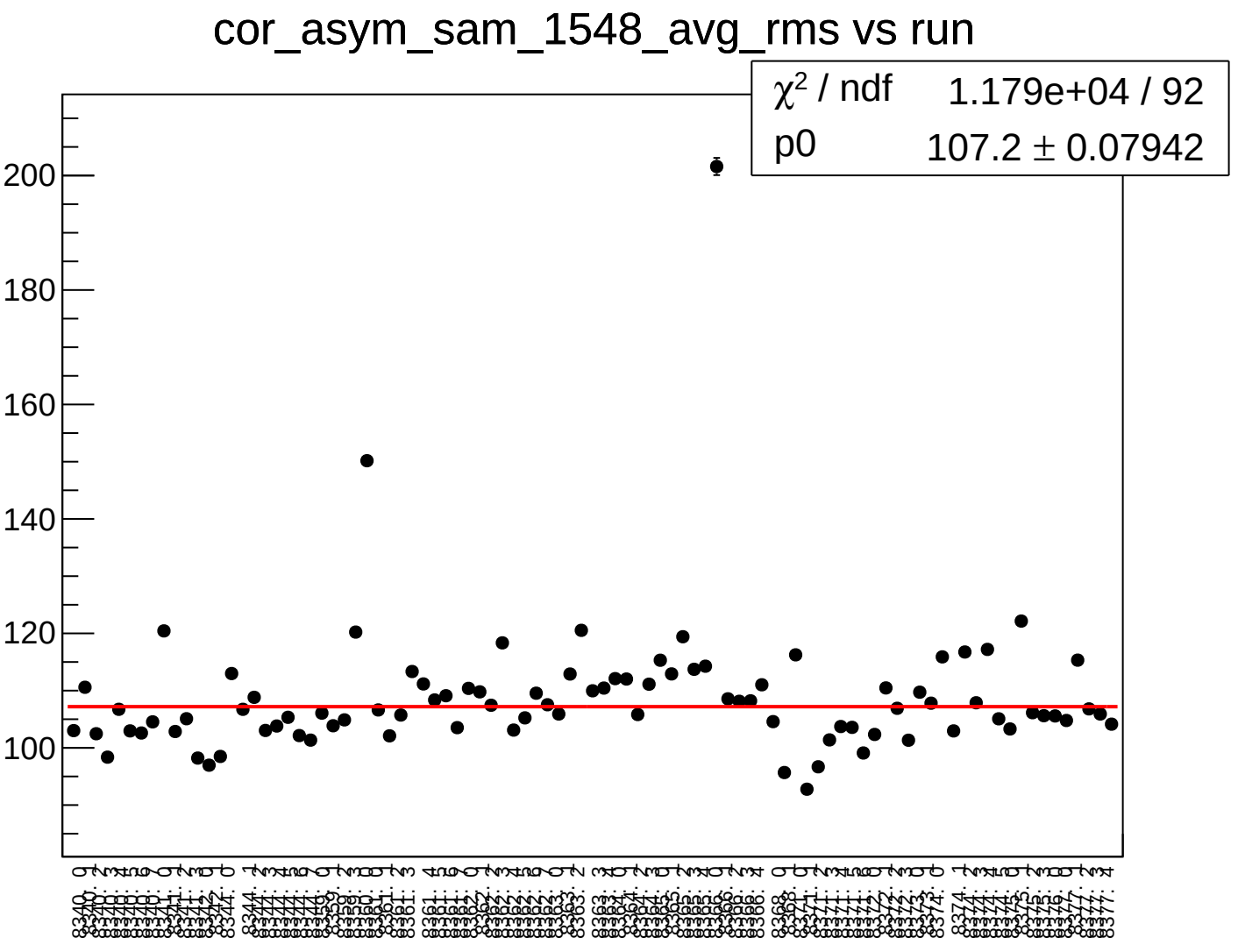

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 109.6 / 92
p0 −3684 ± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −183.5
Std Dev 0
2
1
0
−1
−2

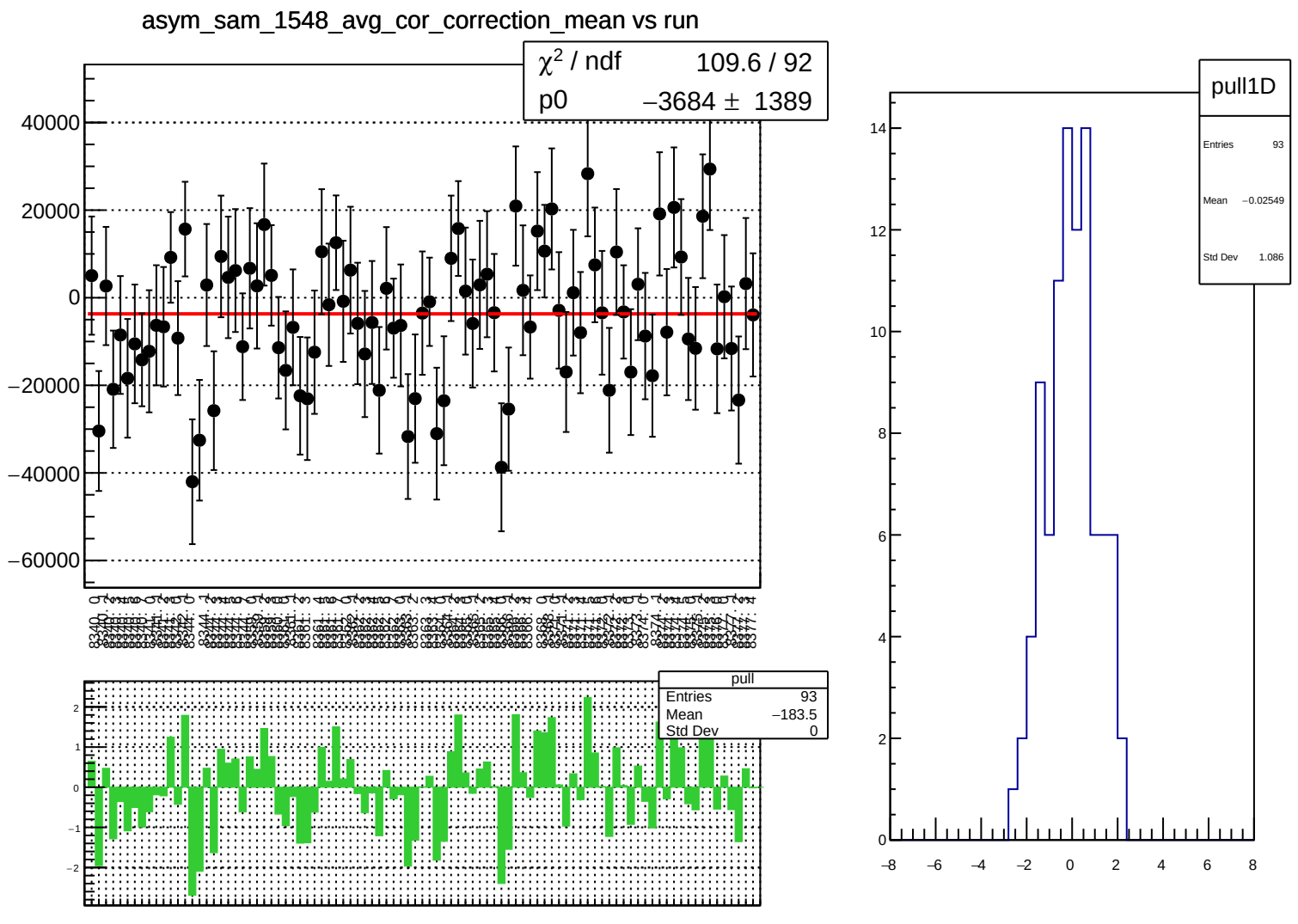

pull1D
Entries 93
Mean −0.02549
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

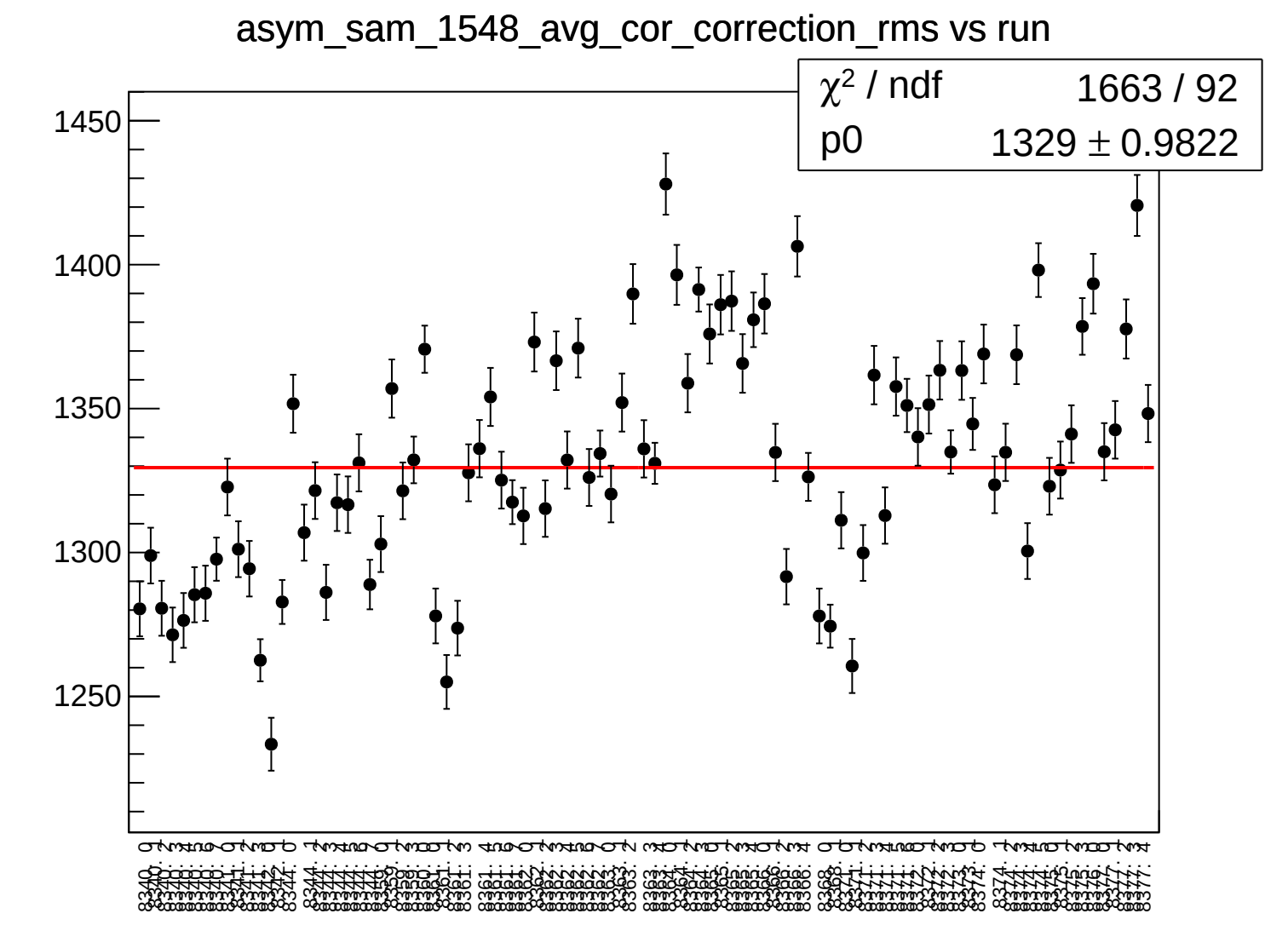

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1663 / 92
p0 1329 ± 0.9822
1450
1400
1350
1300
1250

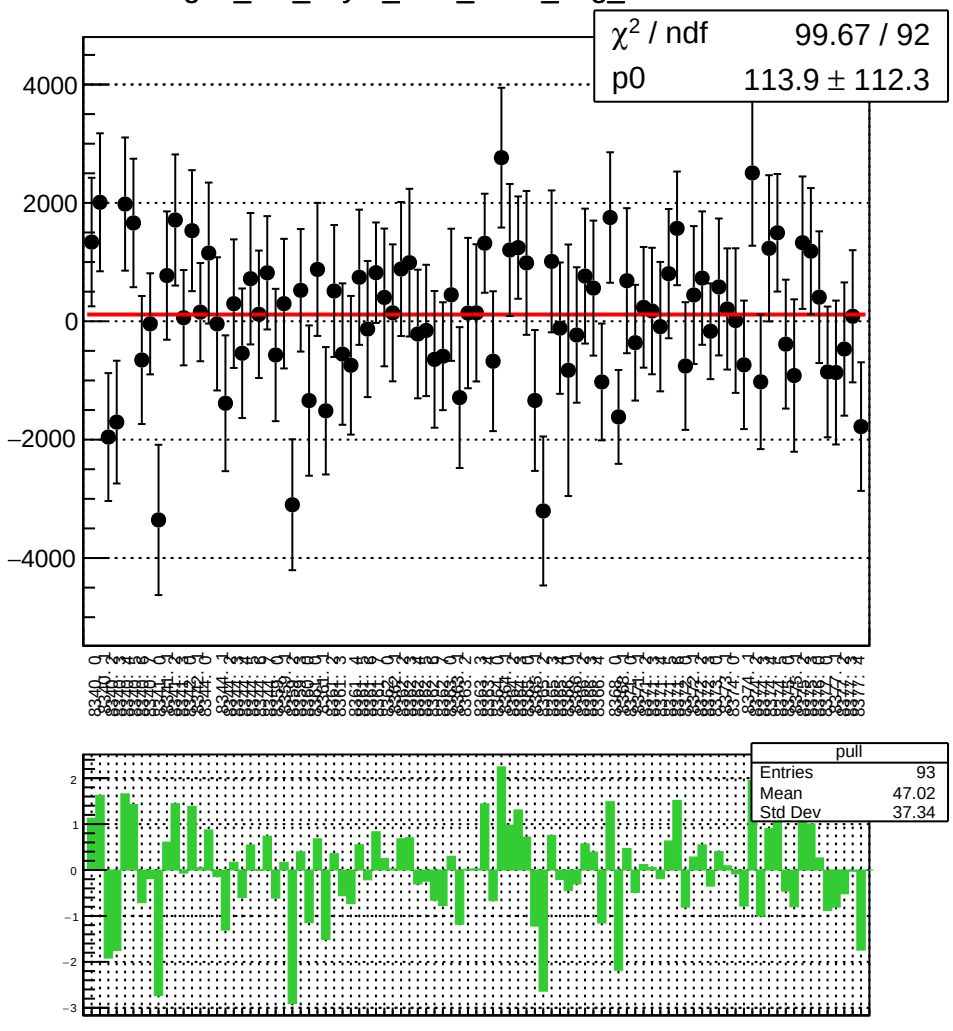

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 99.67 / 92
p0 113.9 ± 112.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 47.02
Std Dev 37.34
2
1
0
−1
−2
−3

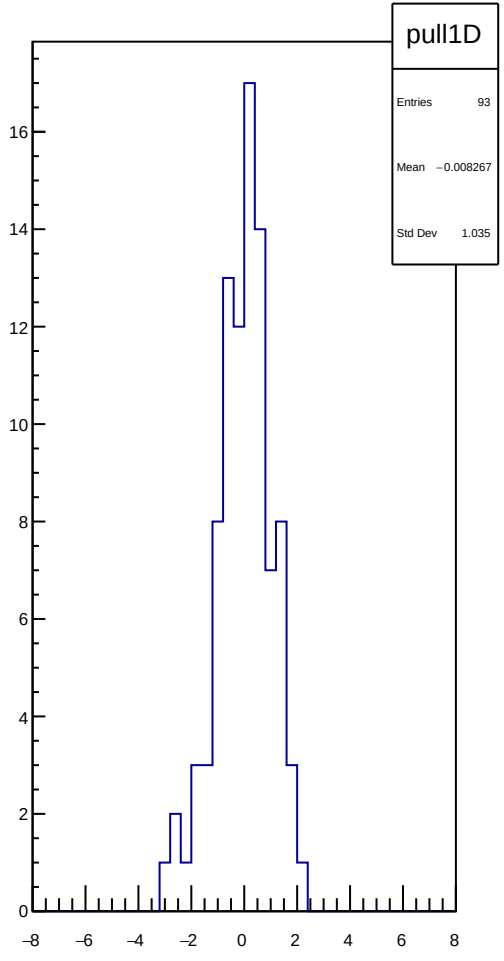

pull1D
Entries 93
Mean −0.008267
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

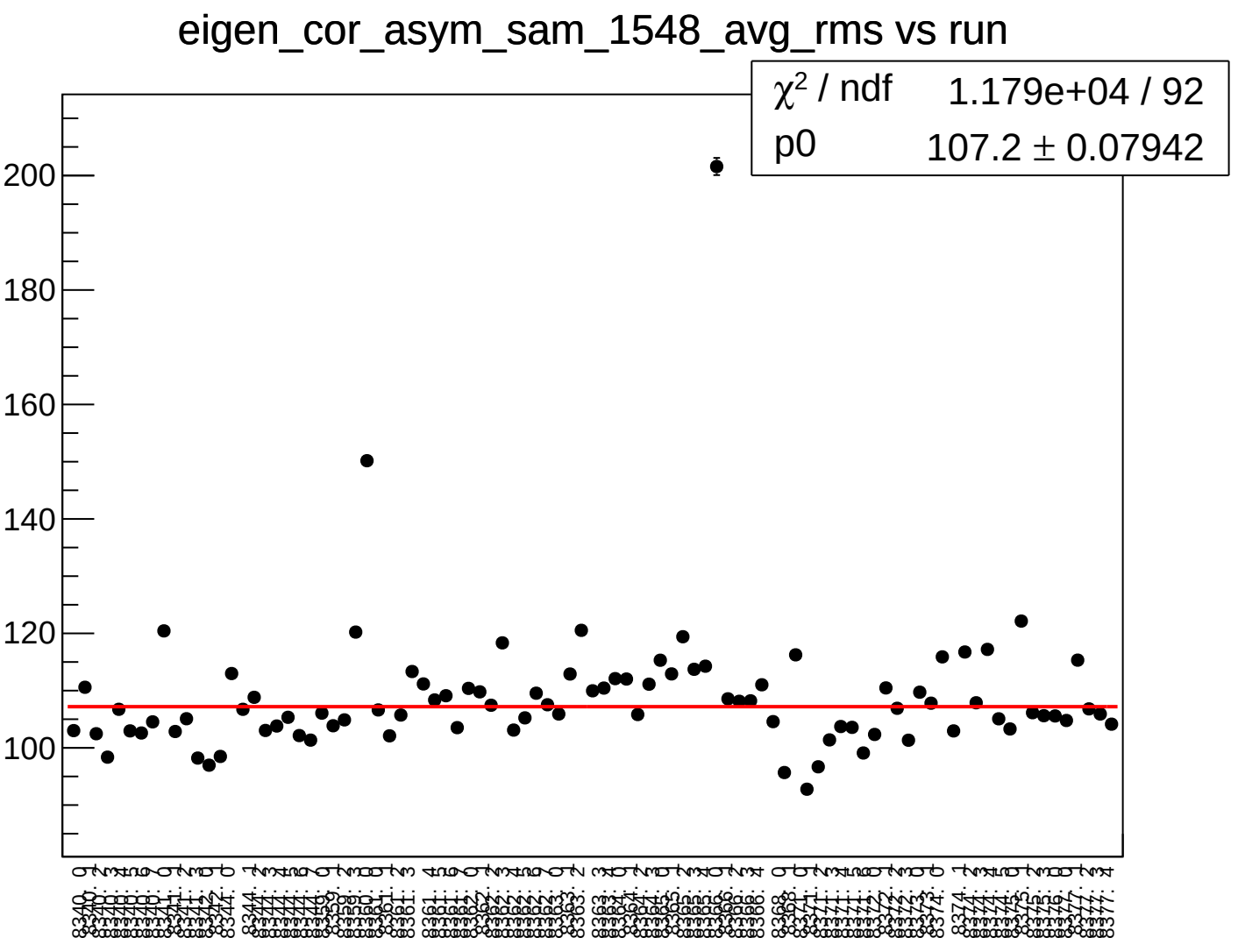

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.179e+04 / 92
p0 107.2 ± 0.07942
200
180
160
140
120
100

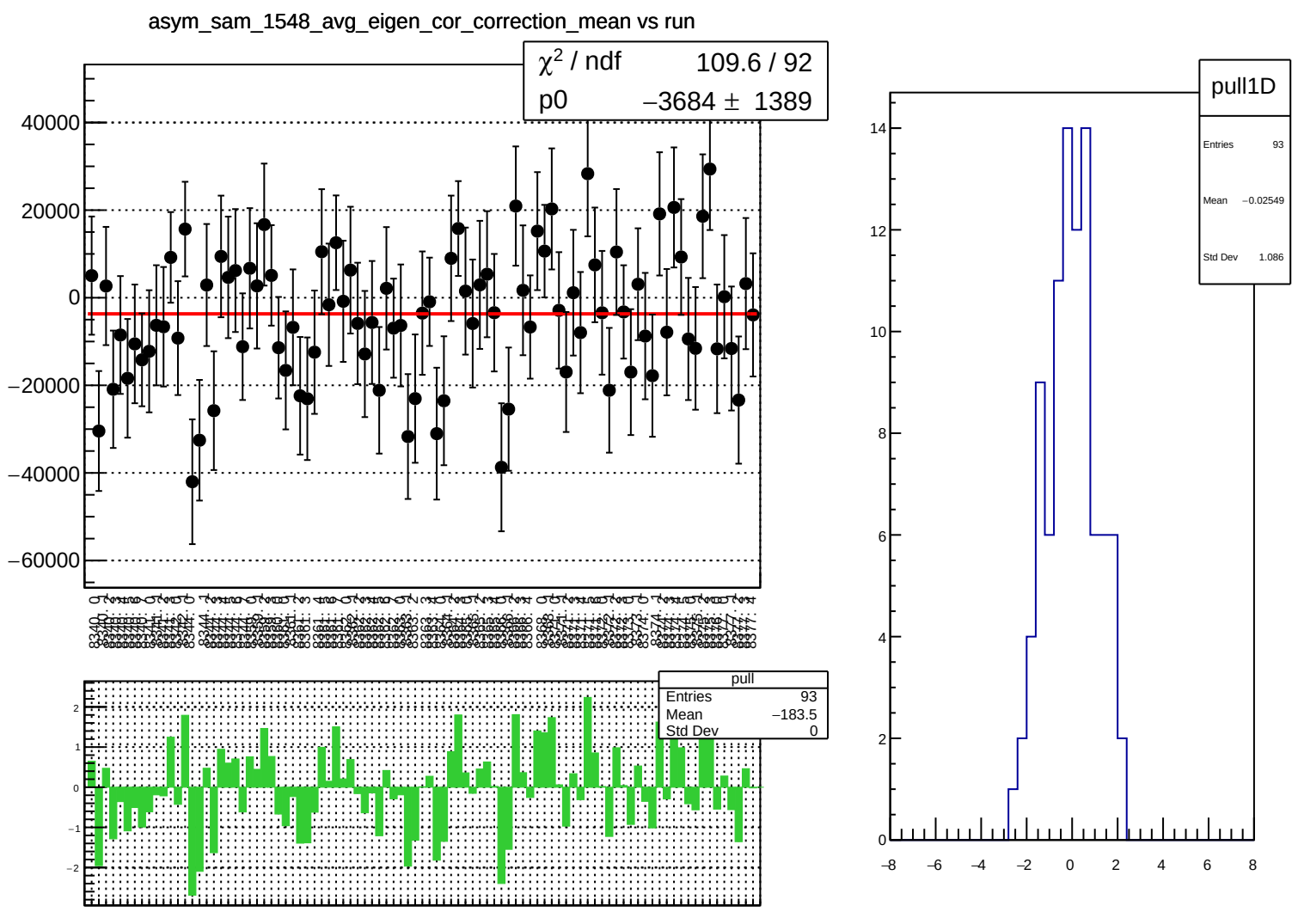

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 109.6 / 92
p0 −3684 ± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −183.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02549
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

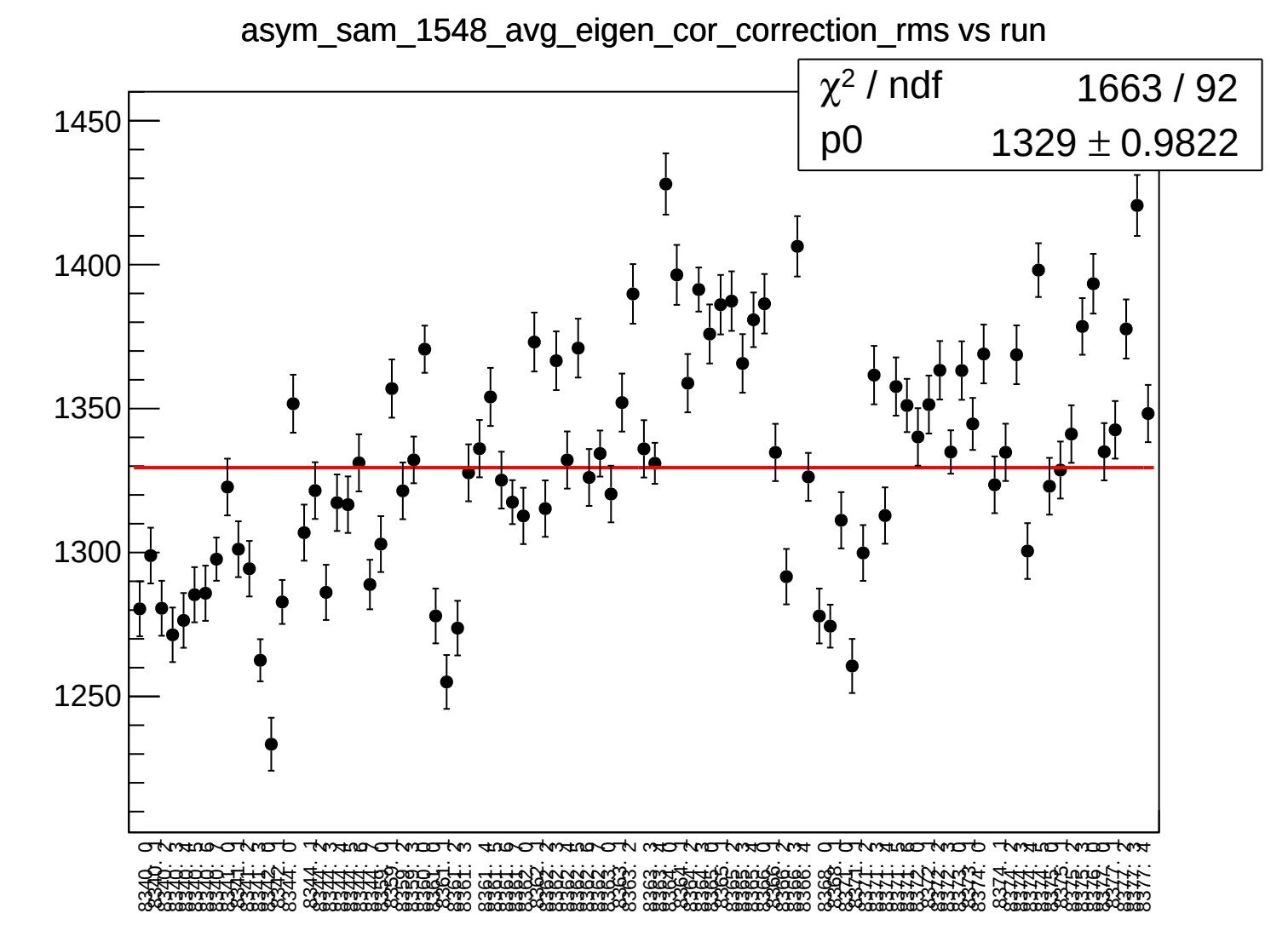

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1663 / 92
p0 1329 ± 0.9822
1450
1400
1350
1300
1250

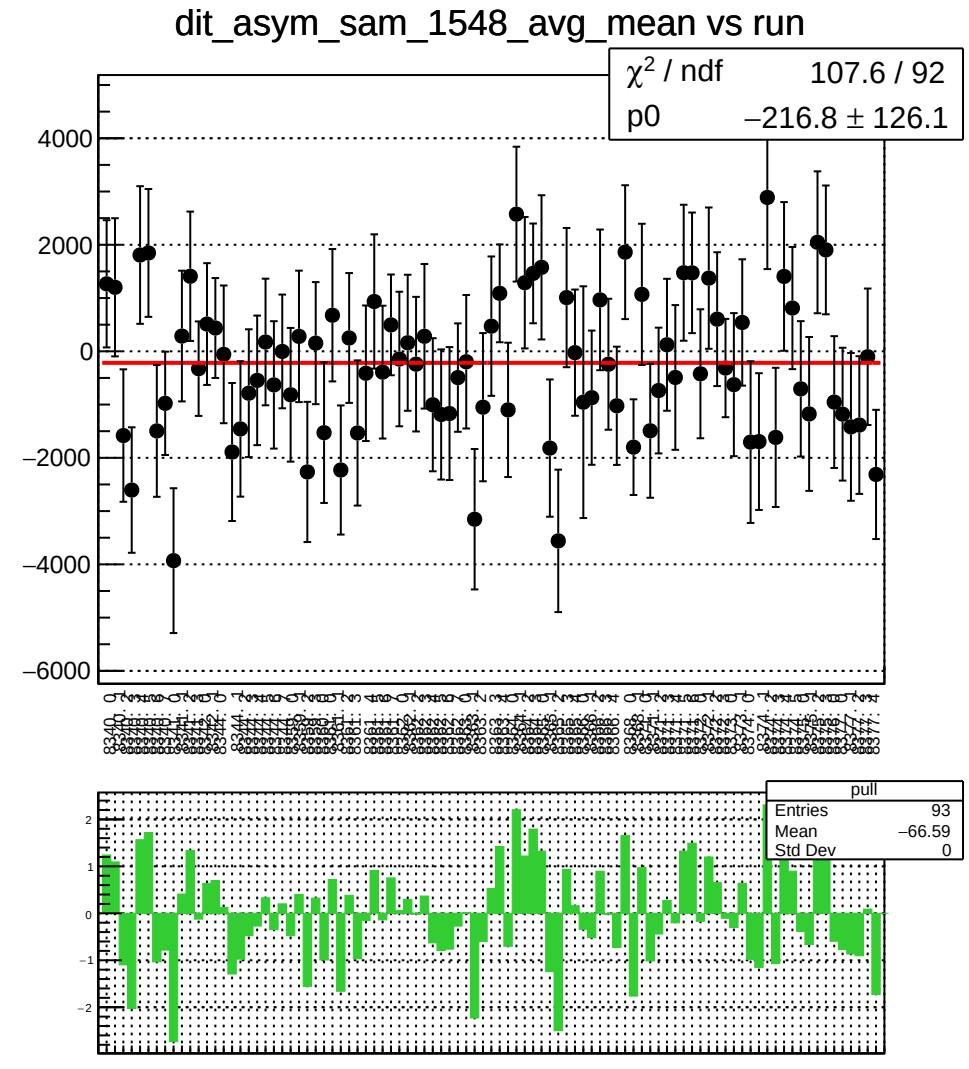

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 99.67 / 92
p0 113.9 ± 112.3
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 47.02
Std Dev 37.34
2
1
0
−1
−2
−3

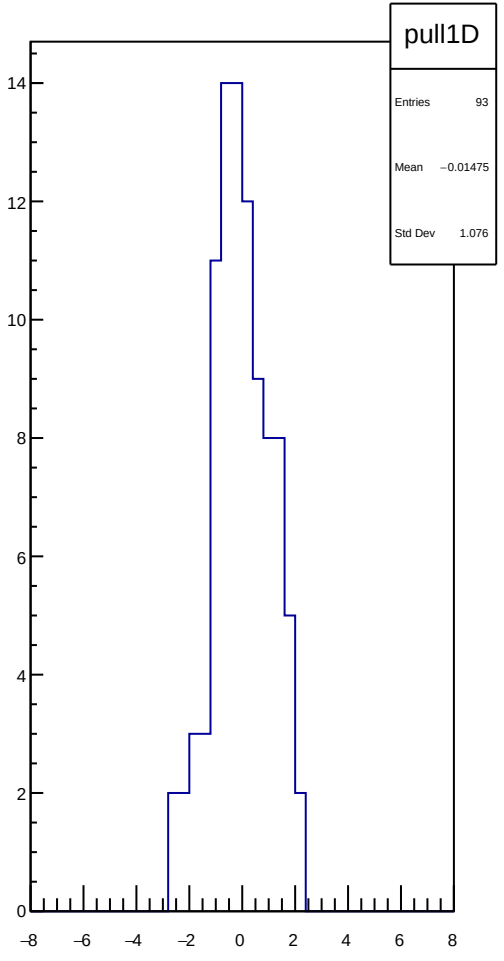

pull1D
Entries 93
Mean −0.008267
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

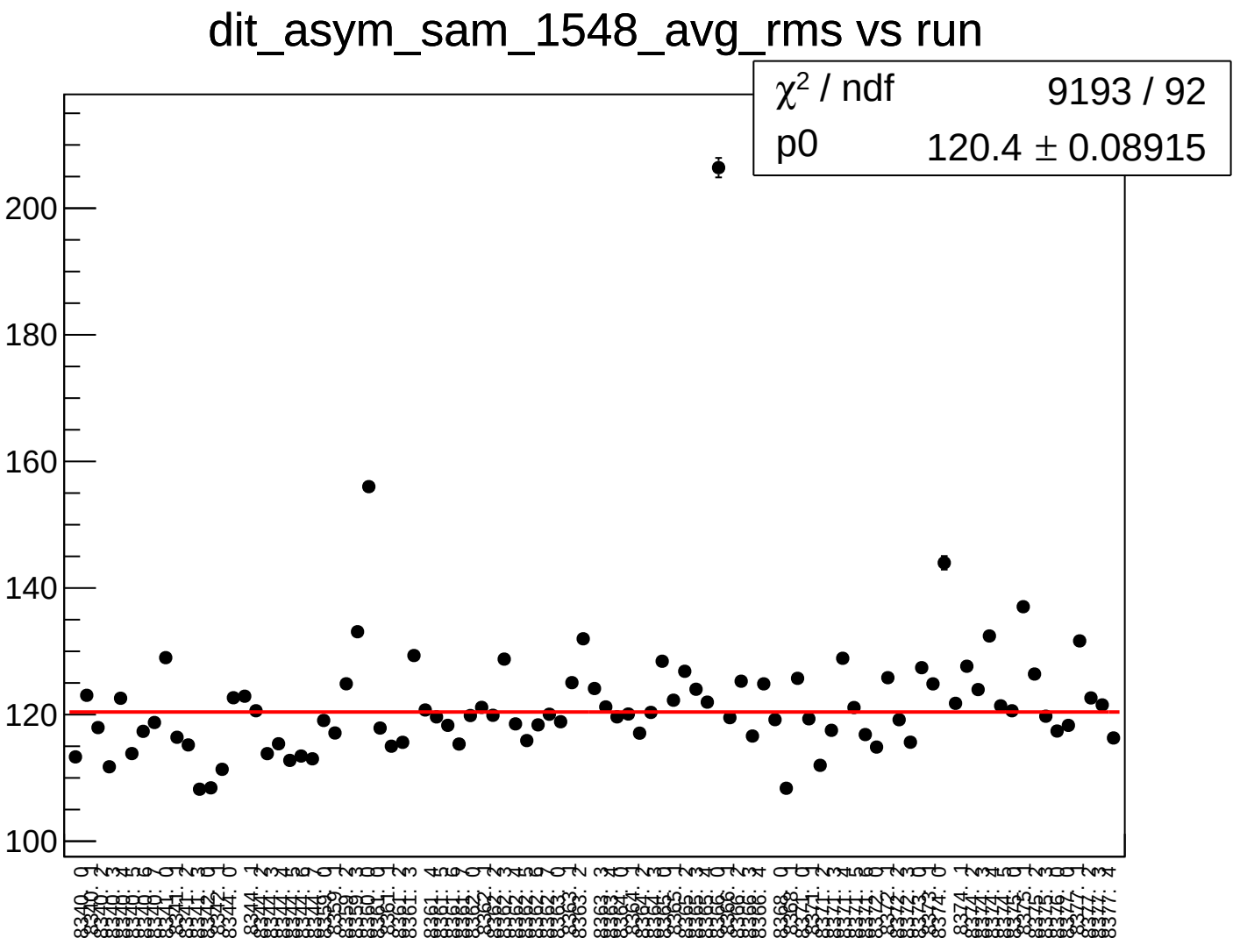

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1.179e+04 / 92
p0 107.2 ± 0.07942
200
180
160
140
120
100

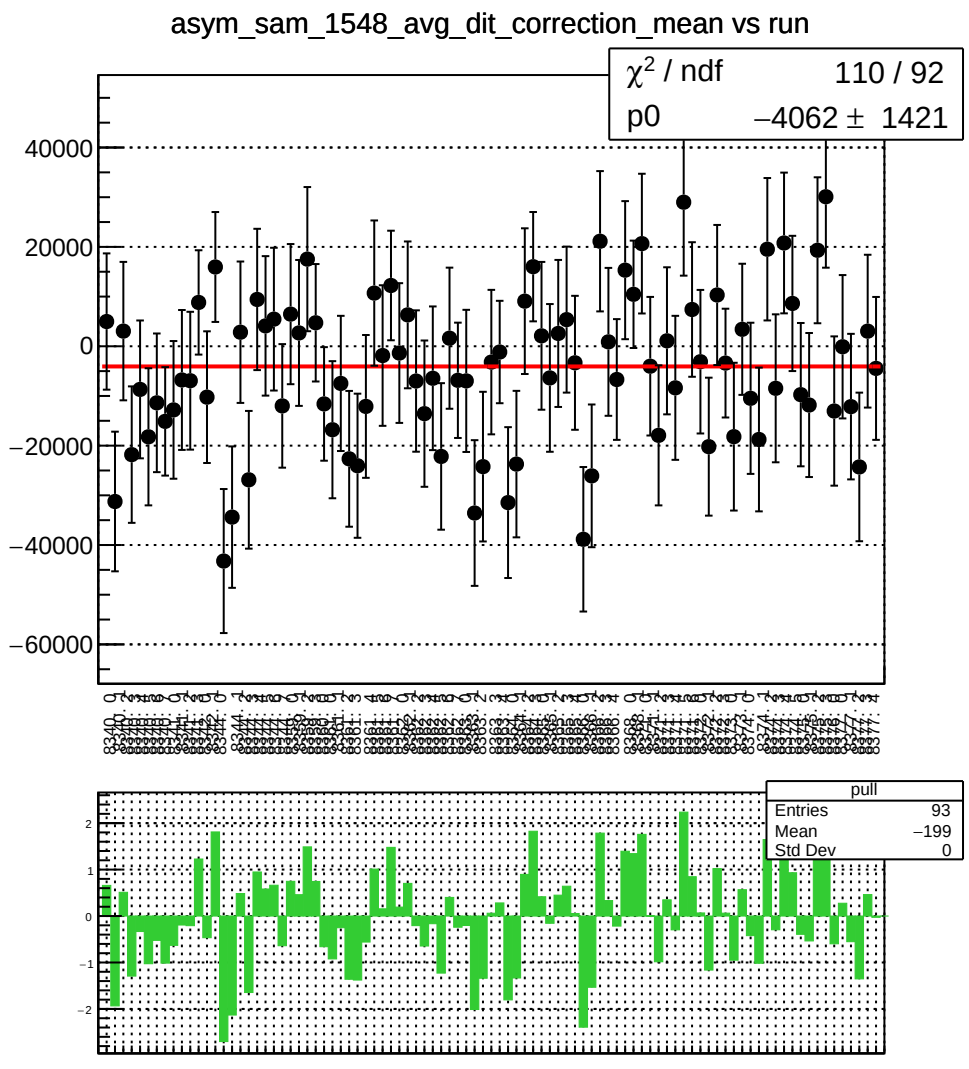

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 109.6 / 92
p0 −3684 ± 1389
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −183.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02549
Std Dev 1.086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

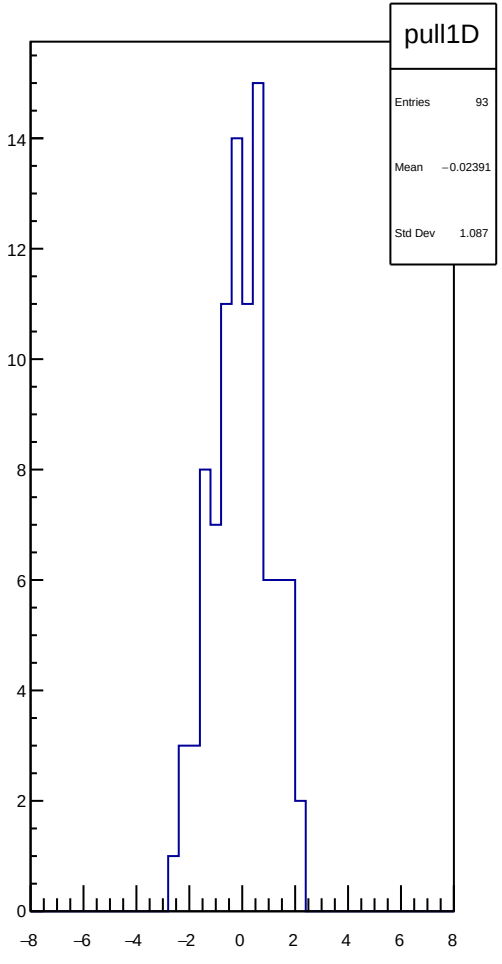

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1663 / 92
p0 1329 ± 0.9822
1450
1400
1350
1300
1250

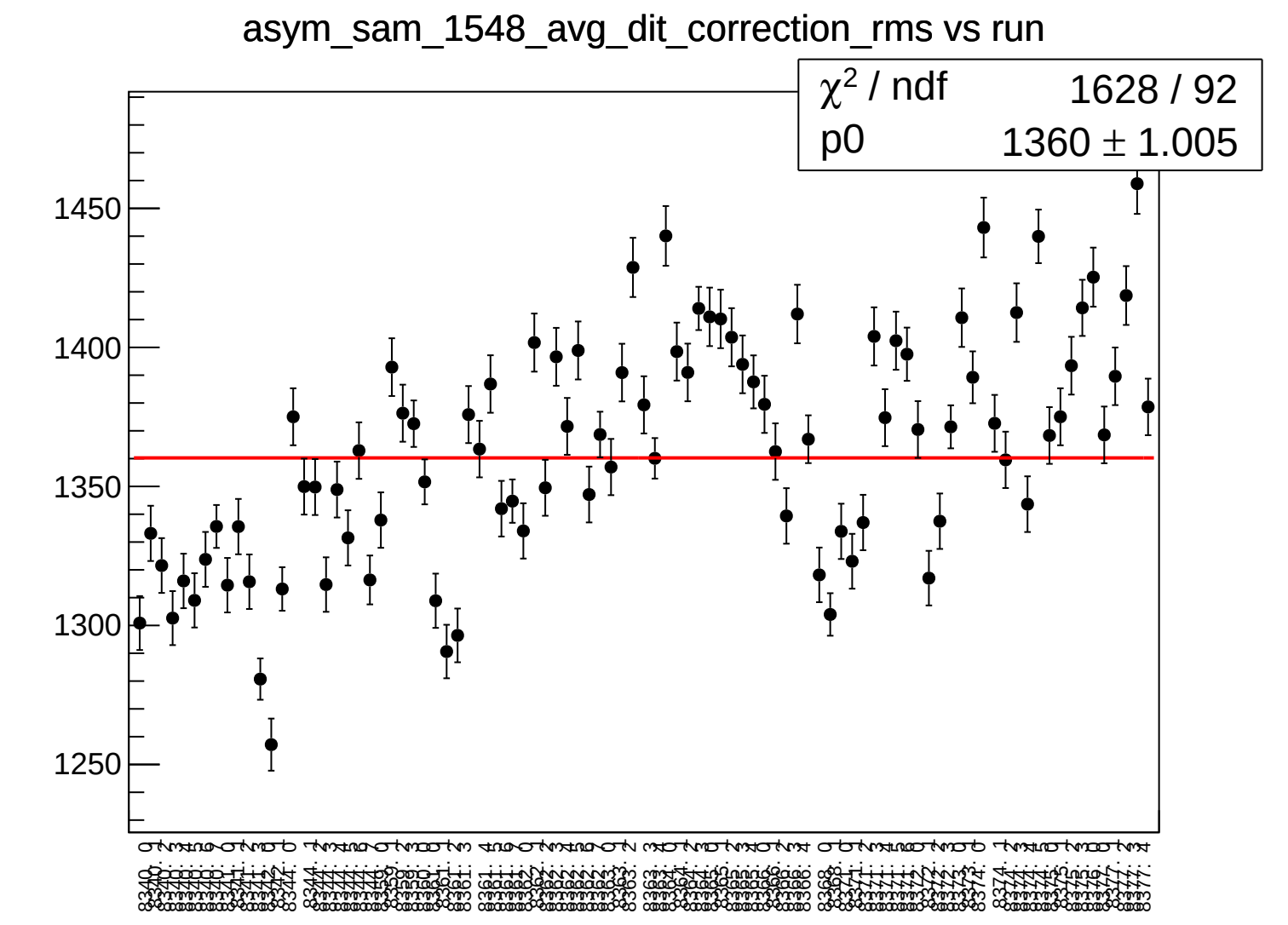

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 107.6 / 92
p0 −216.8 ± 126.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −66.59
Std Dev 0
2
1
0
−1
−2

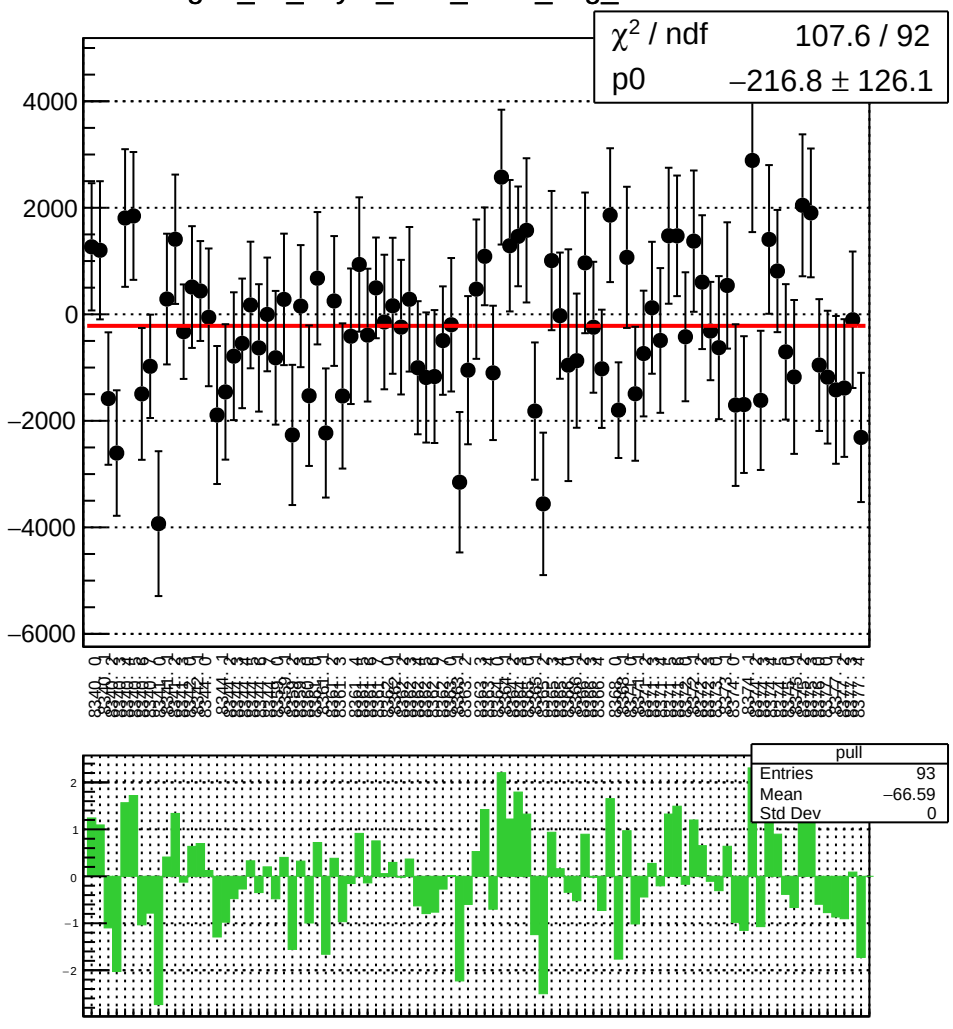

pull1D
Entries 93
Mean −0.01475
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

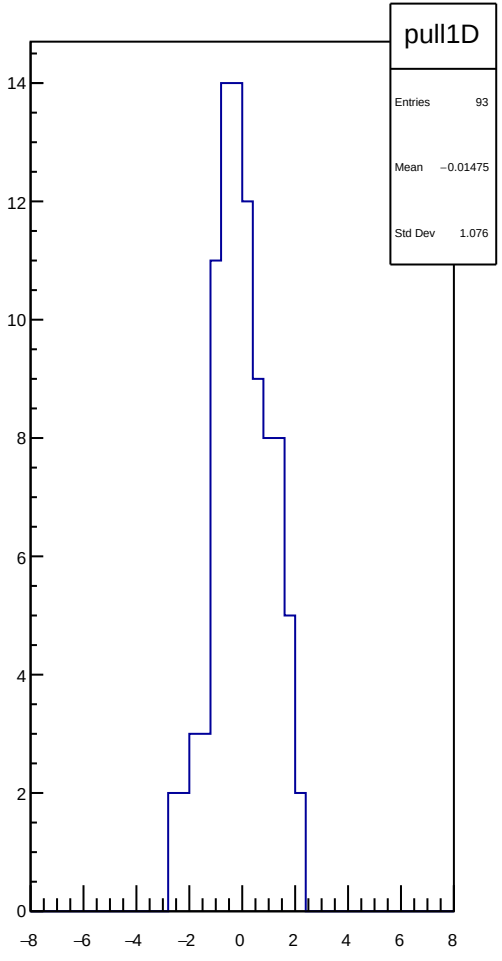

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9193 / 92
p0 120.4 ± 0.08915
200
180
160
140
120
100

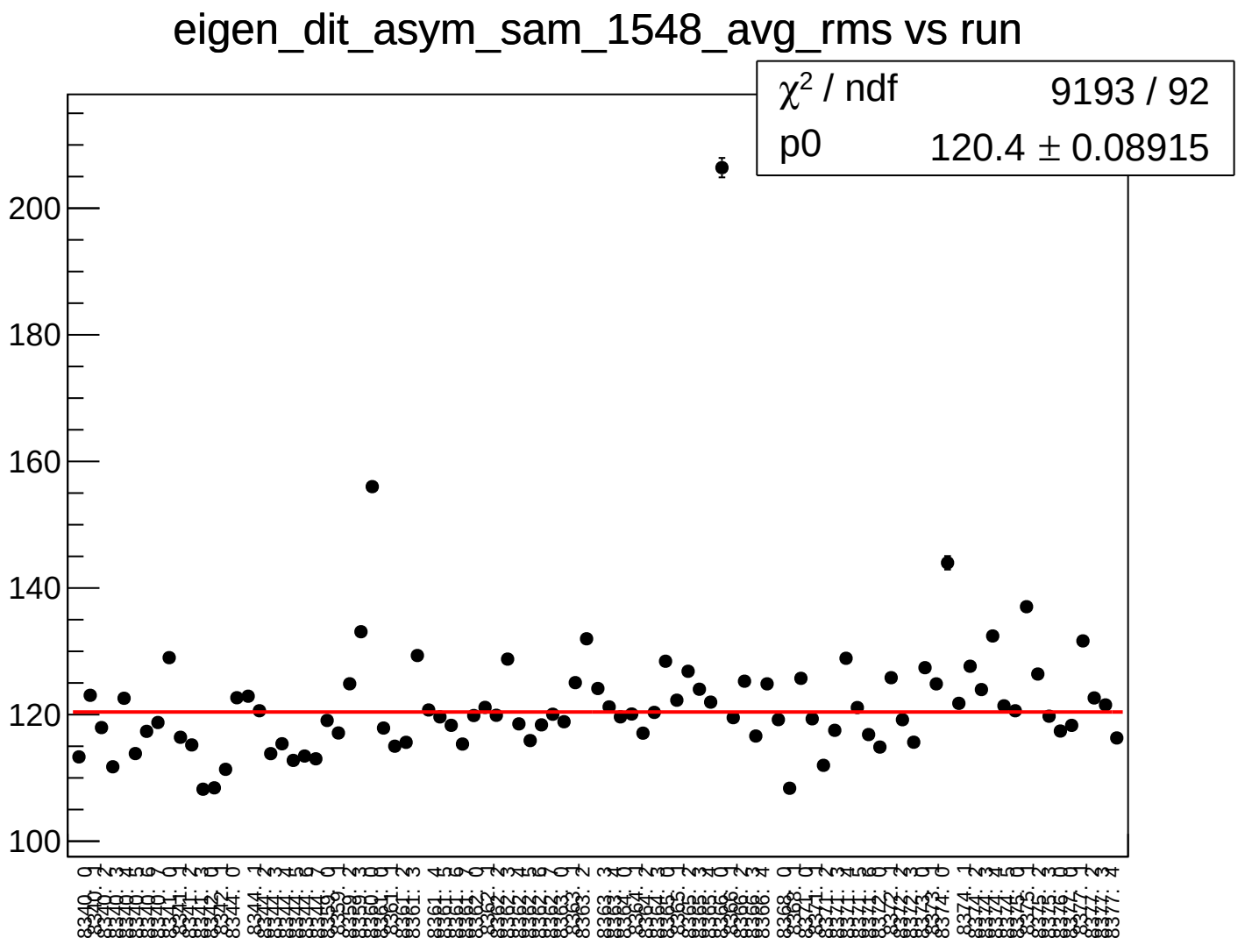

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 110 / 92
p0 −4062 ± 1421
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −199
Std Dev 0
2
1
0
−1
−2

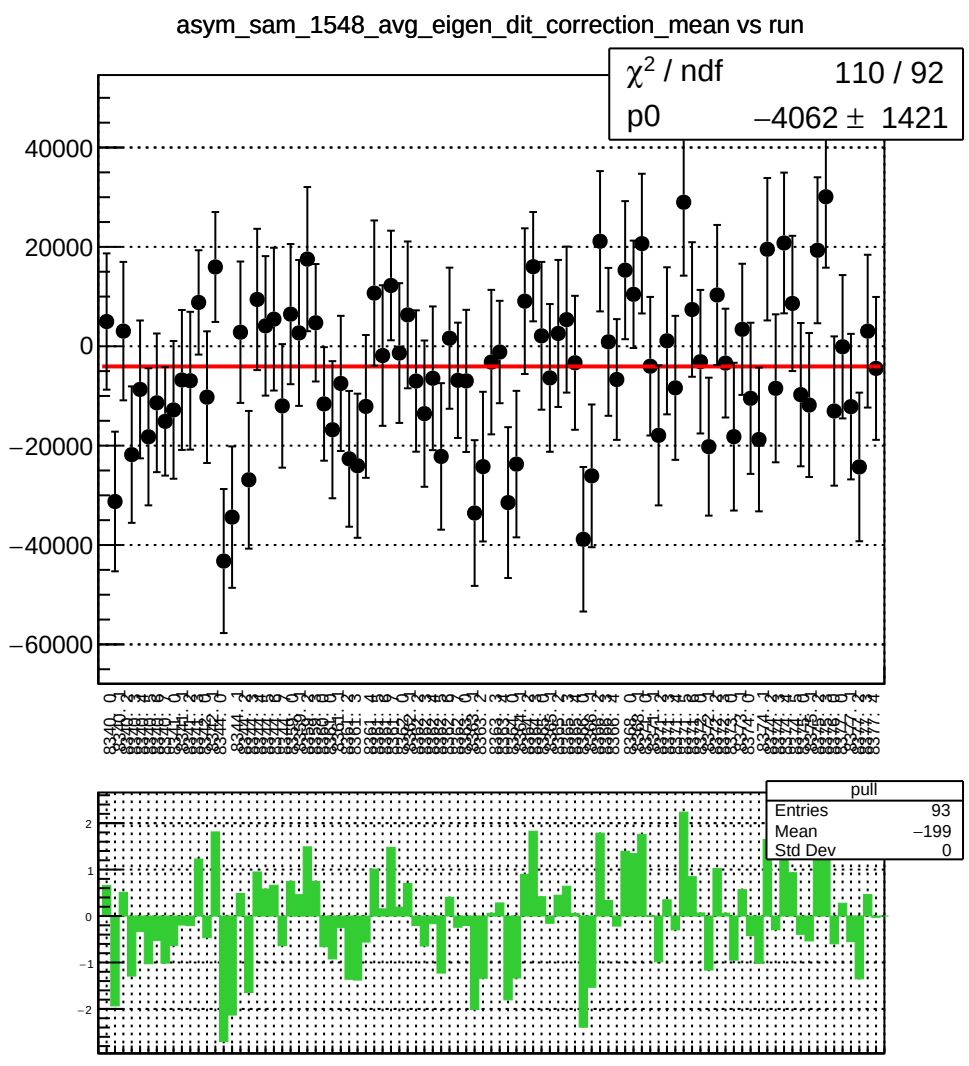

pull1D
Entries 93
Mean −0.02391
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

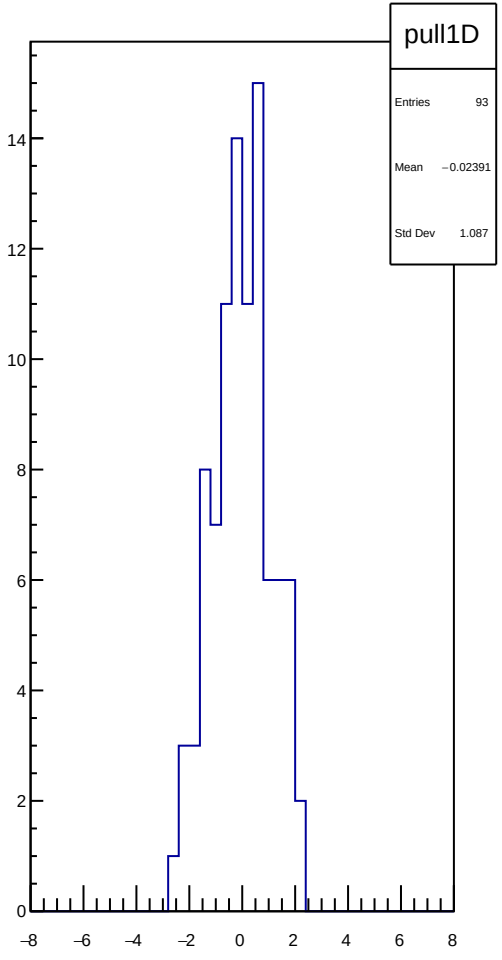

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1628 / 92
p0 1360 ± 1.005
1450
1400
1350
1300
1250

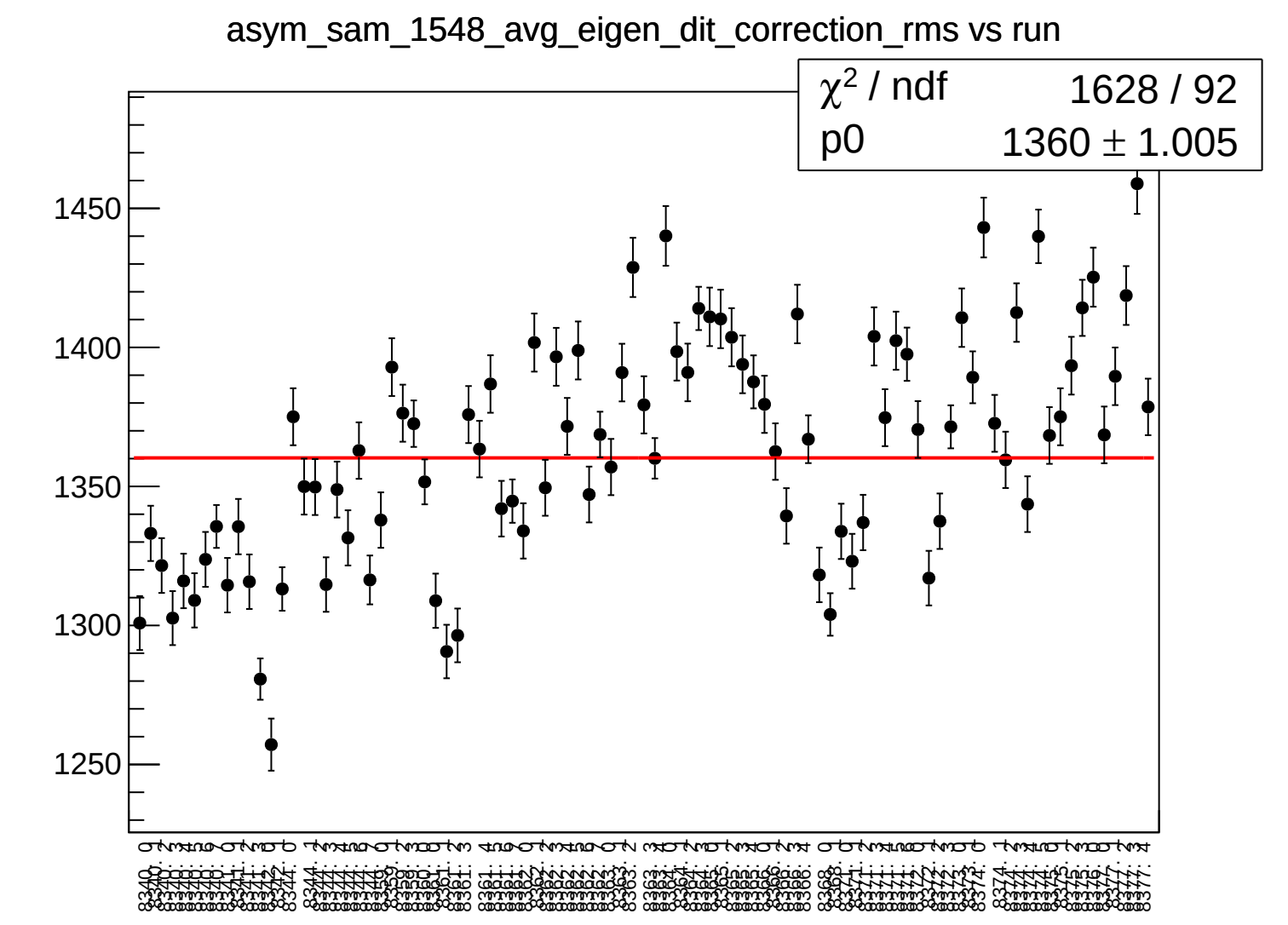

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 107.6 / 92
p0 −216.8 ± 126.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −66.59
Std Dev 0
2
1
0
−1
−2

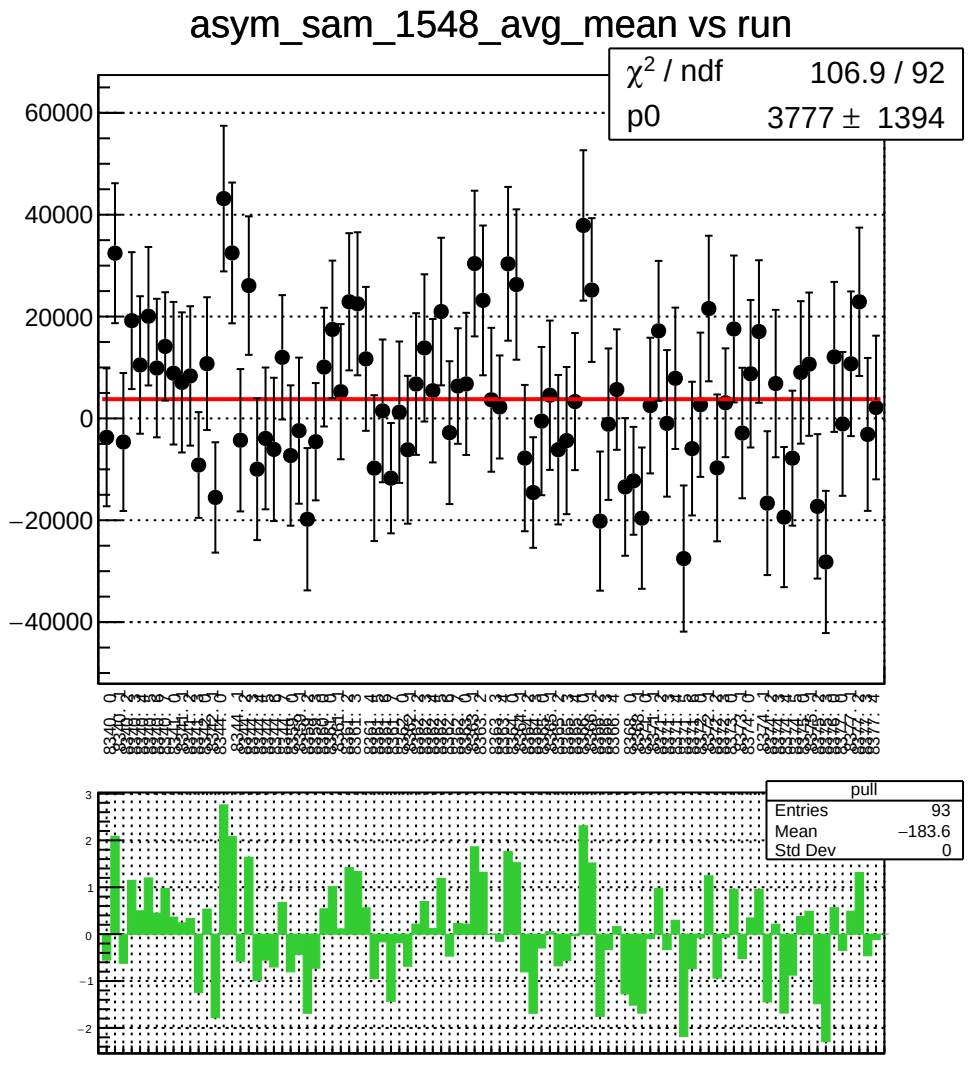

pull1D
Entries 93
Mean −0.01475
Std Dev 1.076
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

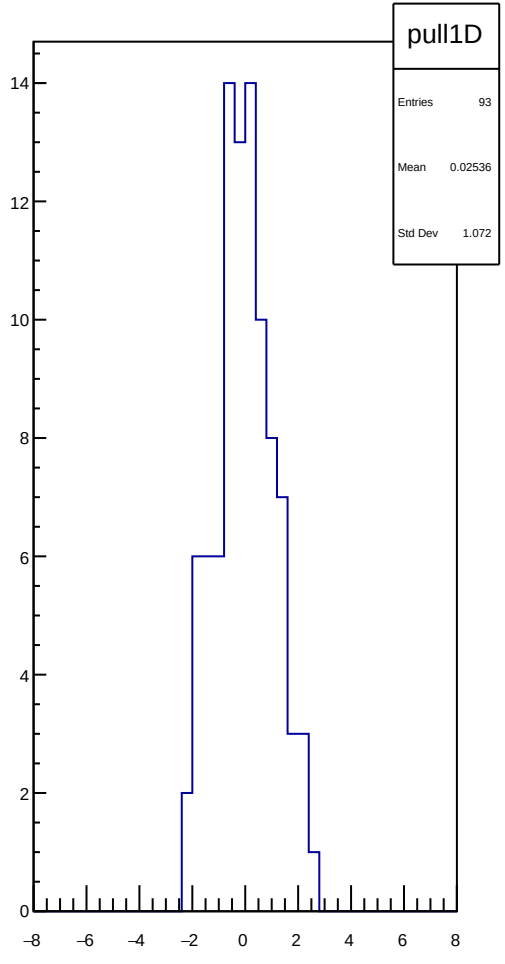

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 9193 / 92
p0 120.4 ± 0.08915
200
180
160
140
120
100

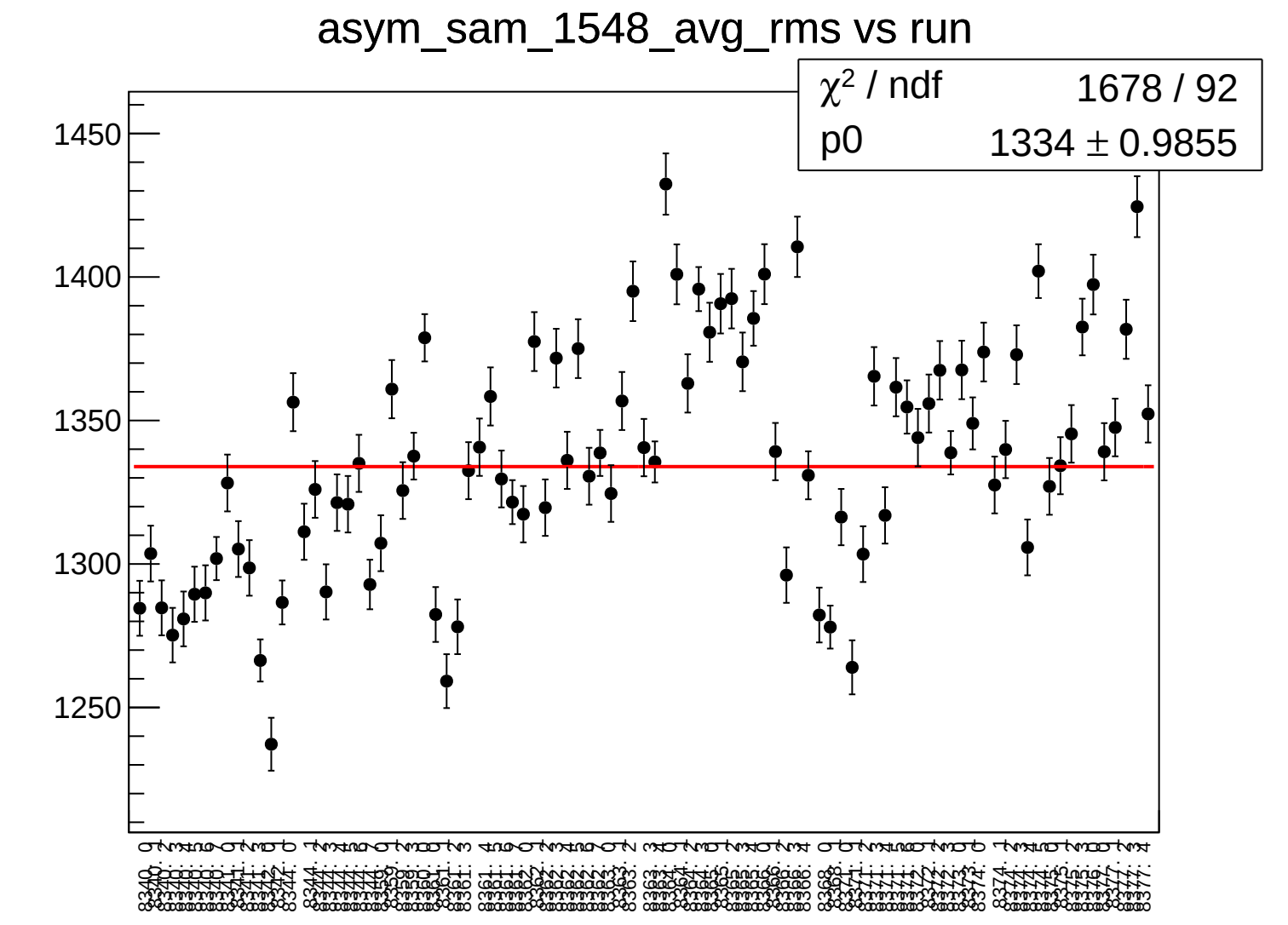

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 110 / 92
p0 −4062 ± 1421
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −199
Std Dev 0
2
1
0
−1
−2

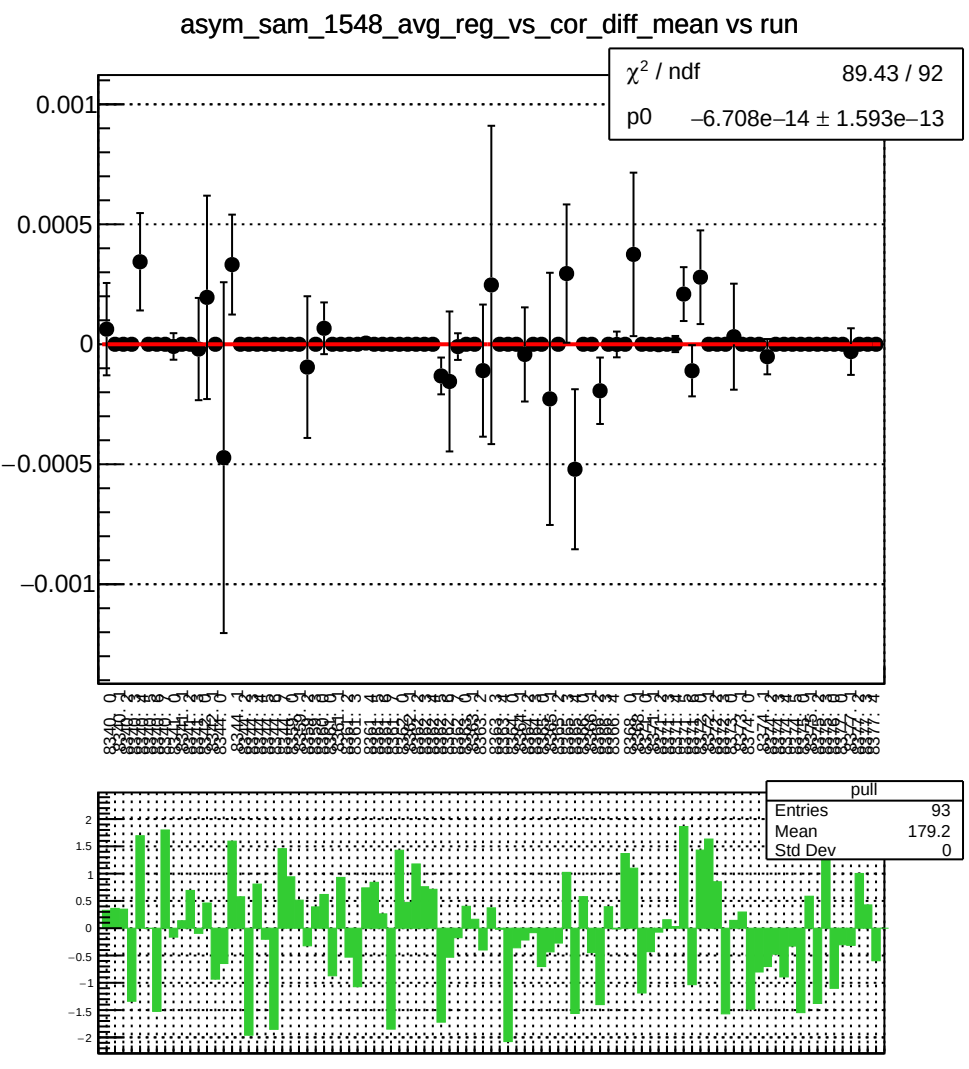

pull1D
Entries 93
Mean −0.02391
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

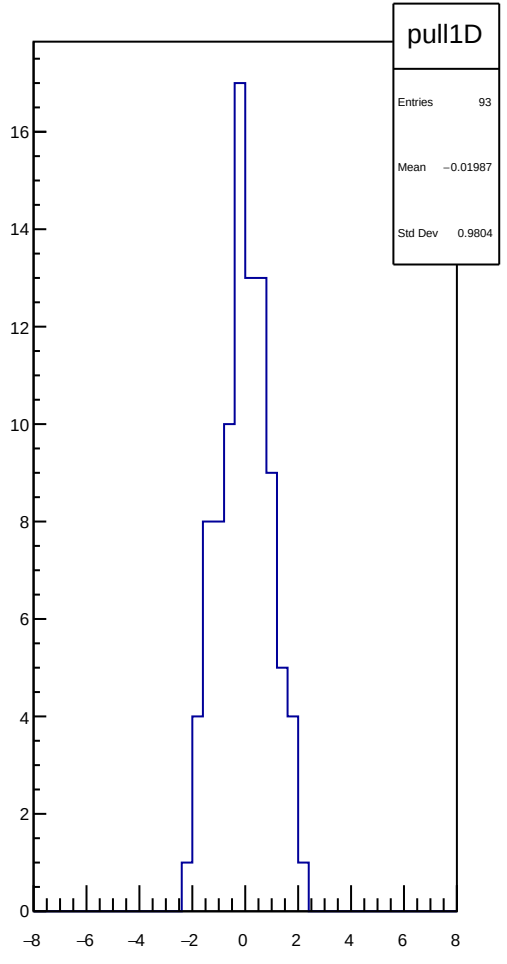

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1628 / 92
p0 1360 ± 1.005
1450
1400
1350
1300
1250

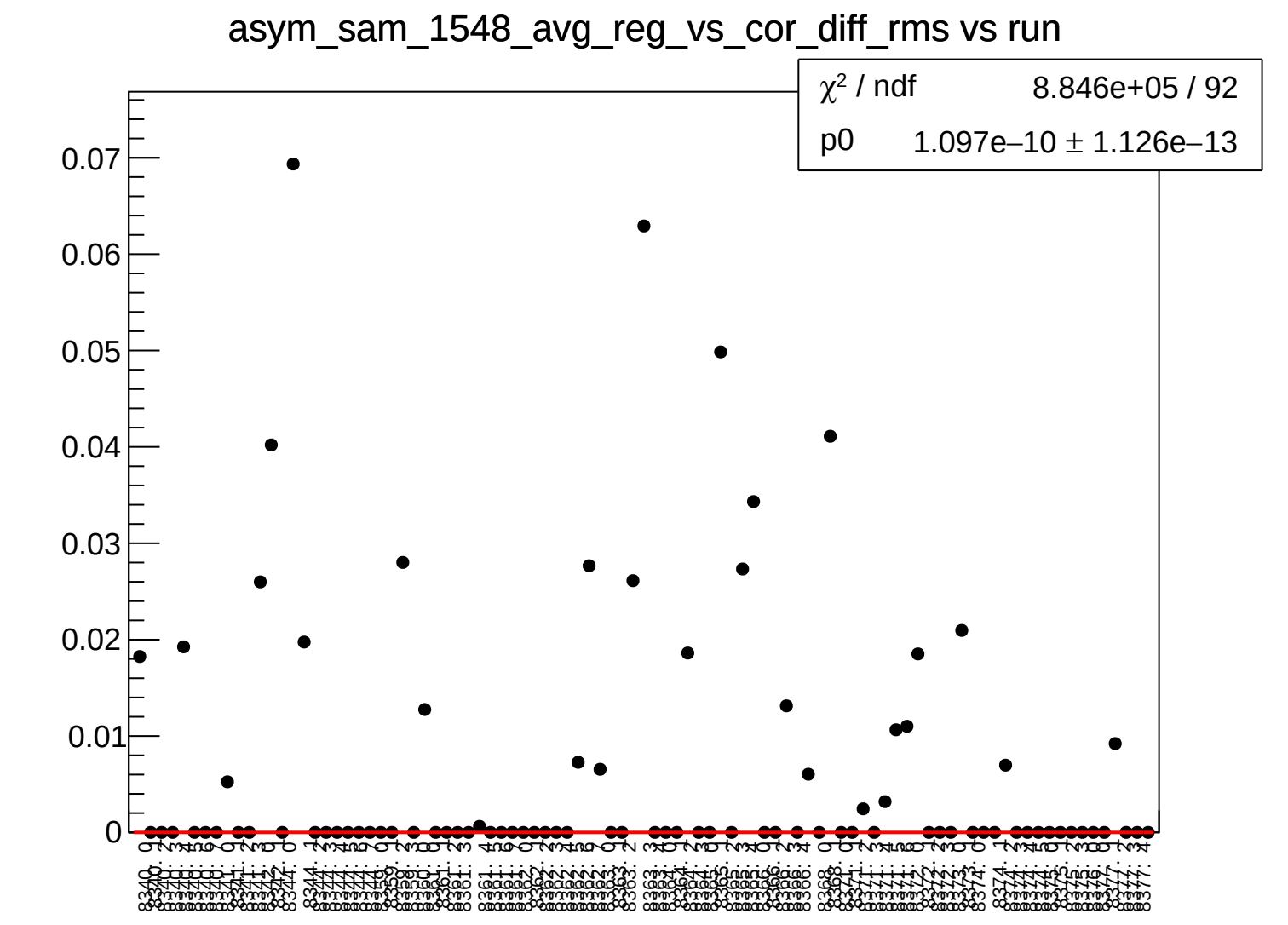

asym_sam_1548_avg_mean vs run
χ² / ndf 106.9 / 92
p0 3777 ± 1394
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −183.6
Std Dev 0
3
2
1
0
−1
−2

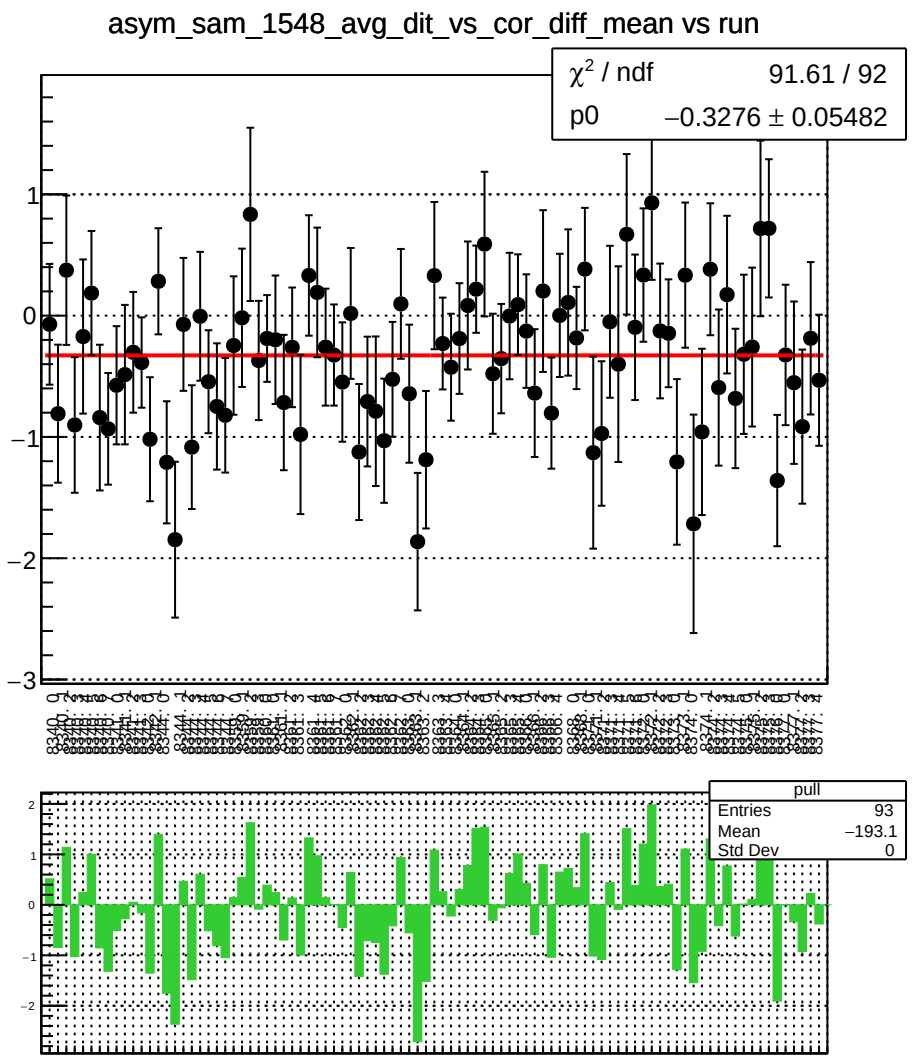

pull1D
Entries 93
Mean 0.02536
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

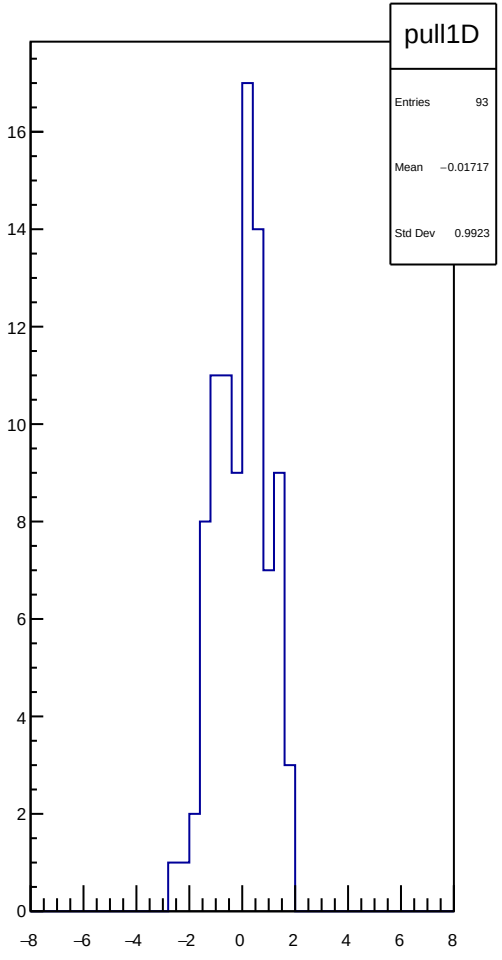

asym_sam_1548_avg_rms vs run
χ² / ndf 1678 / 92
p0 1334 ± 0.9855
1450
1400
1350
1300
1250

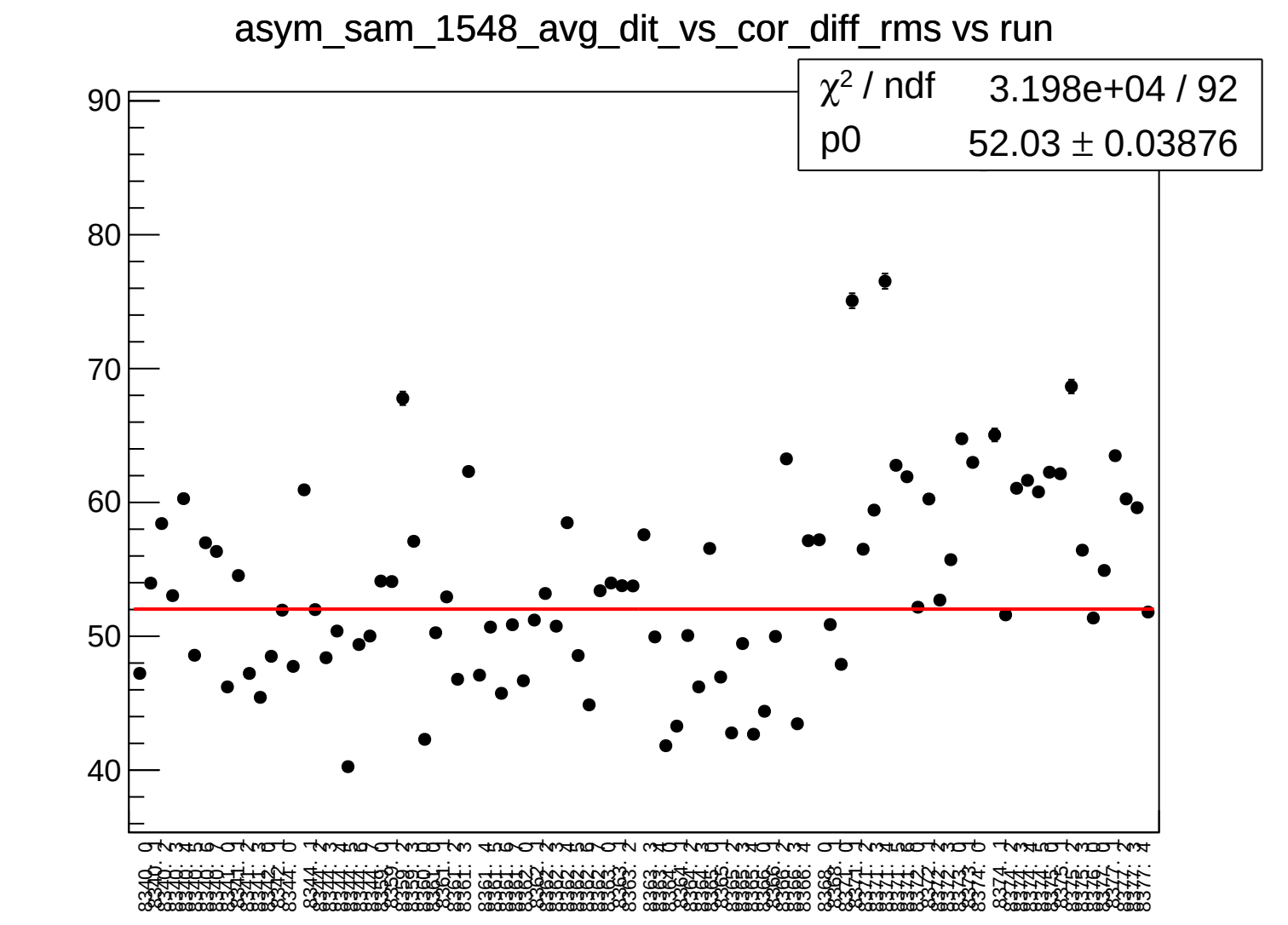

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.43 / 92
p0 −6.708e−14 ± 1.593e−13
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 179.2
Std Dev 0

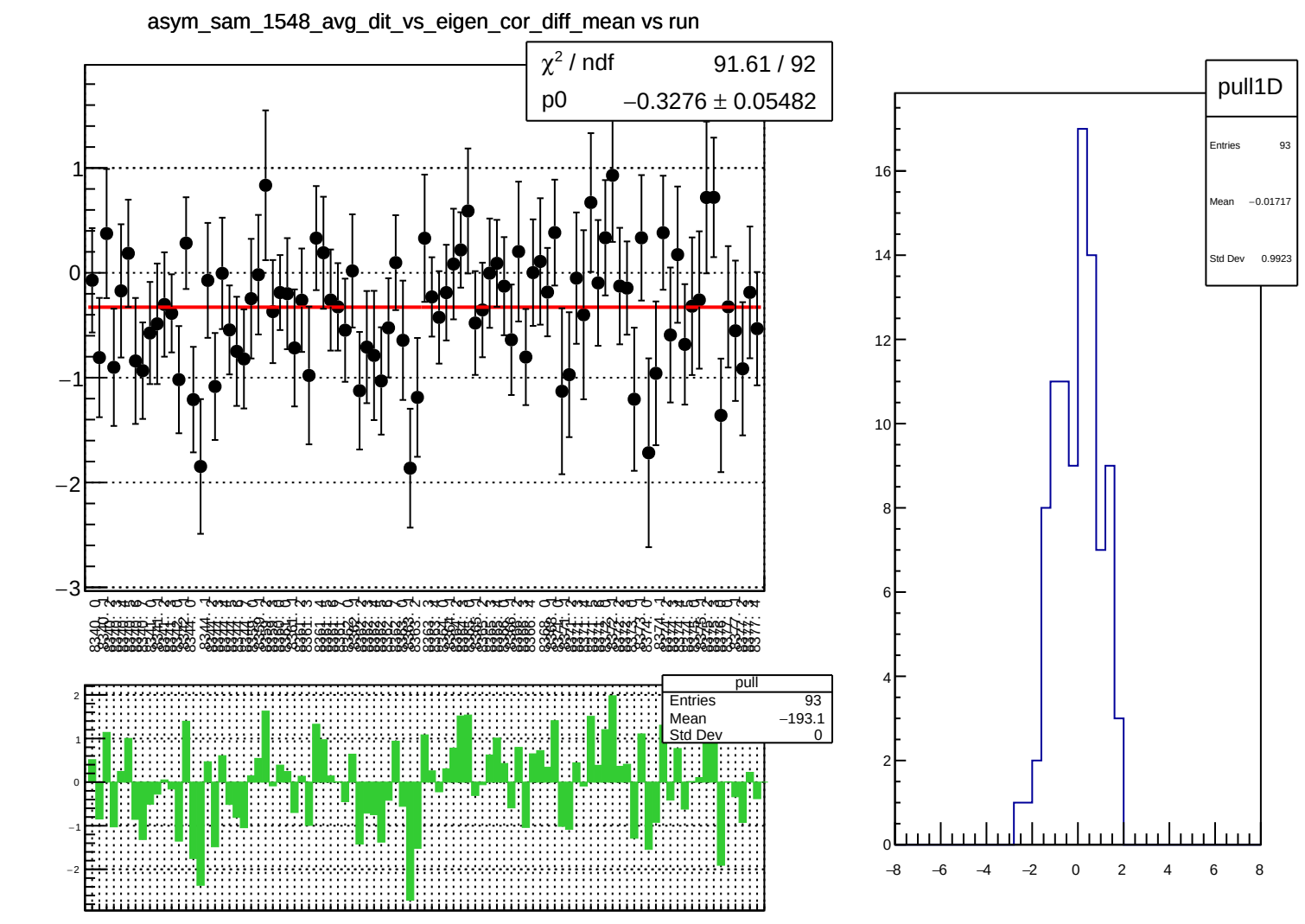

pull1D
Entries 93
Mean −0.01987
Std Dev 0.9804
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

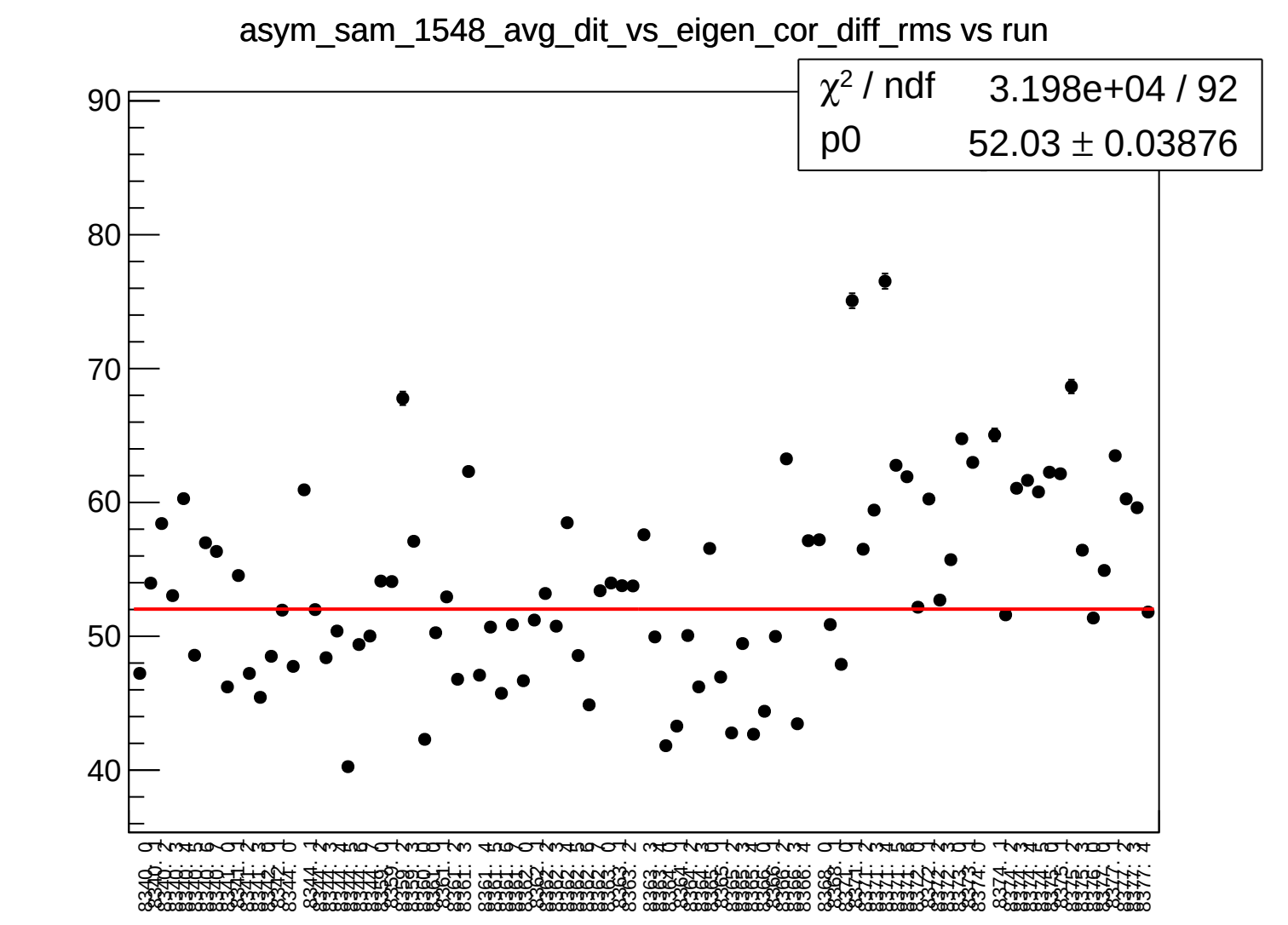

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.846e+05 / 92
p0 1.097e−10 ± 1.126e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

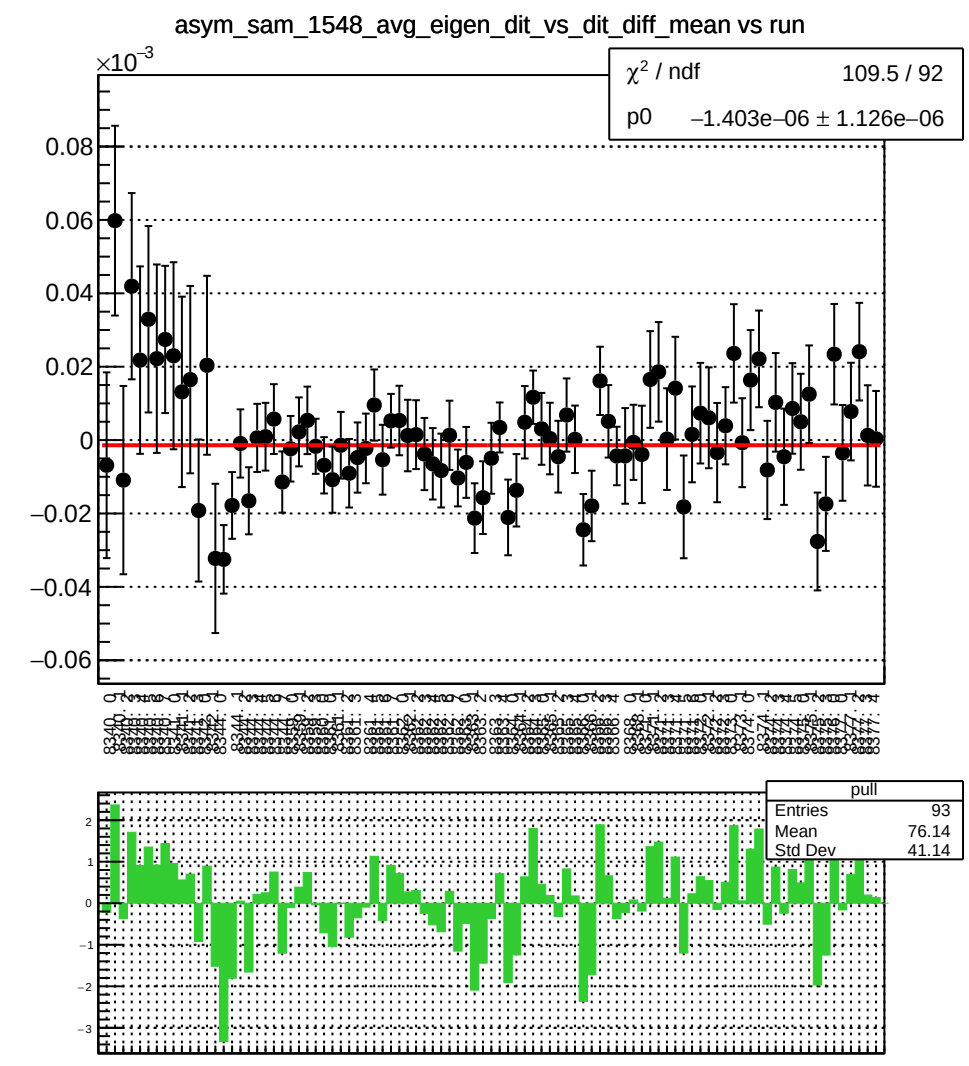

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 92
p0 −0.3276 ± 0.05482
pull
Entries 93
Mean −193.1
Std Dev 0

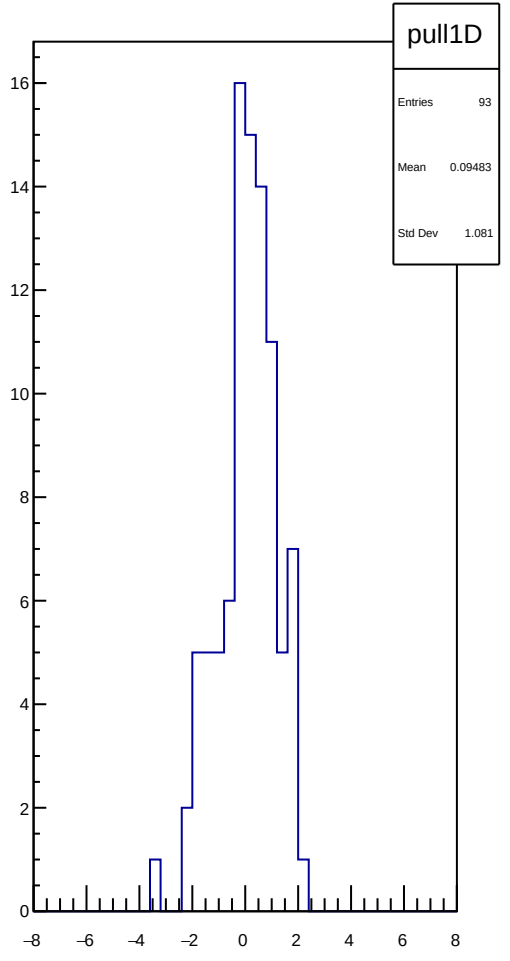

pull1D
Entries 93
Mean −0.01717
Std Dev 0.9923

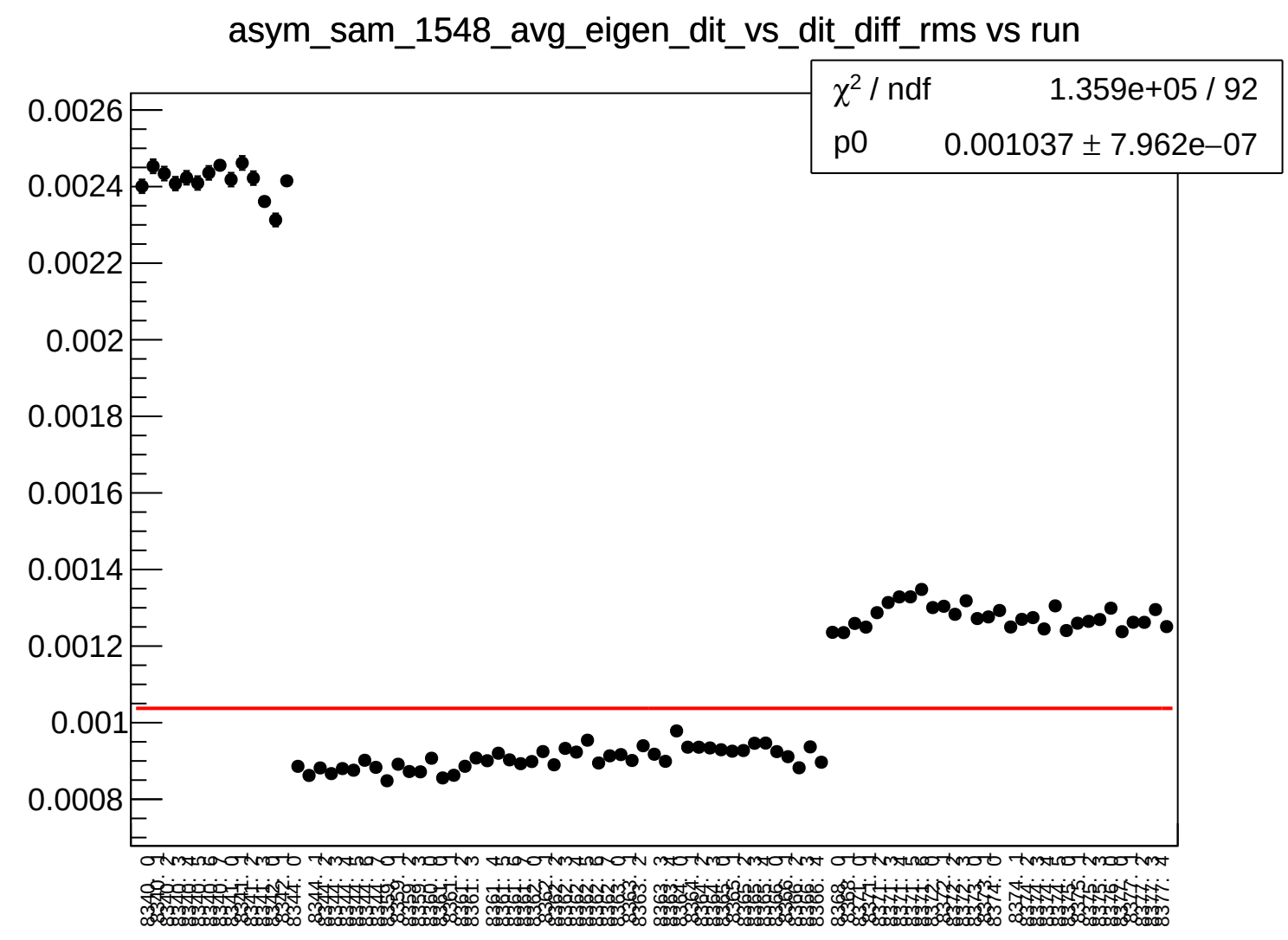

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.198e+04 / 92
p0 52.03 ± 0.03876
90
80
70
60
50
40

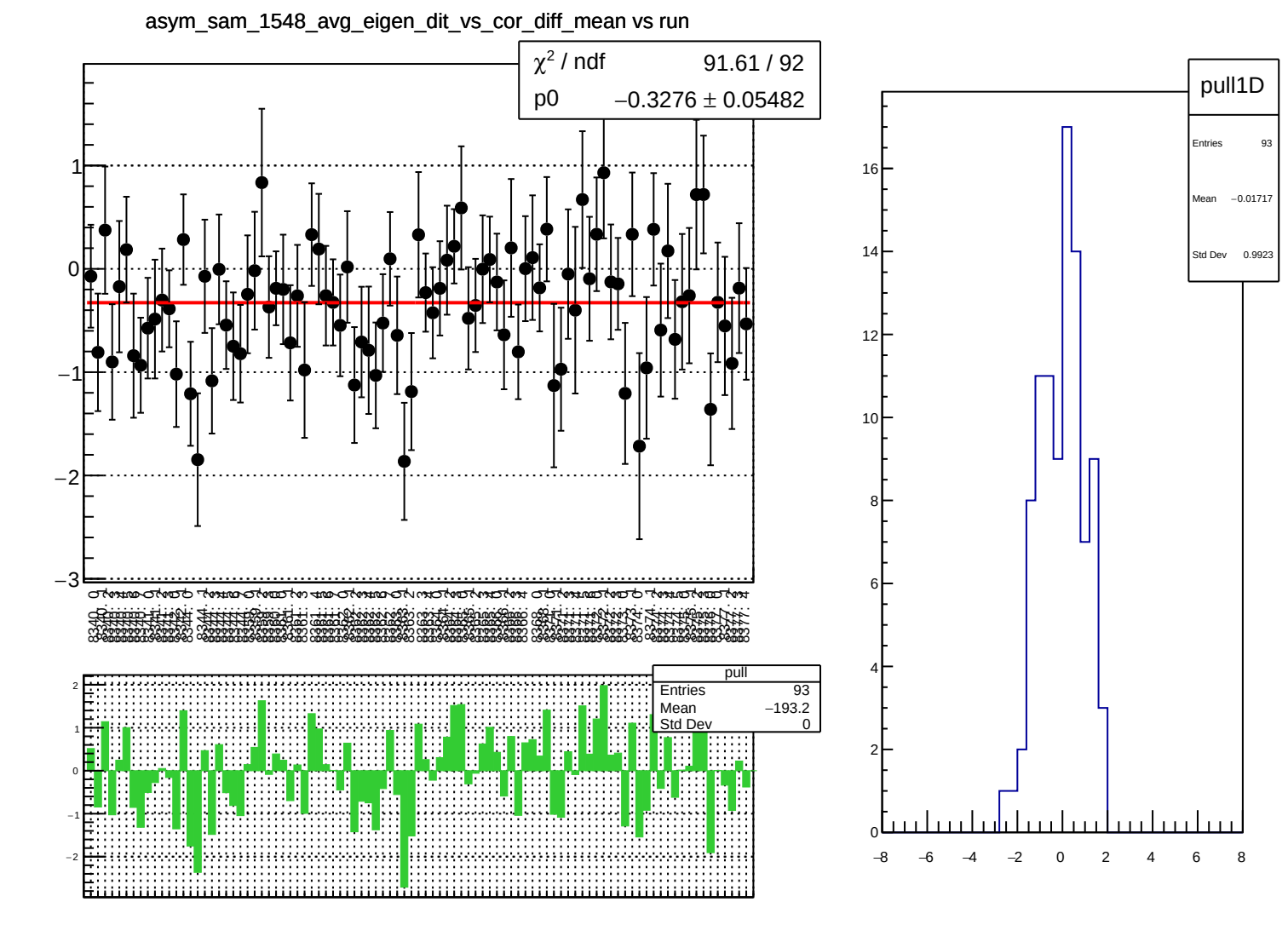

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 92
p0 −0.3276 ± 0.05482
pull
Entries 93
Mean −193.1
Std Dev 0
pull1D
Entries 93
Mean −0.01717
Std Dev 0.9923

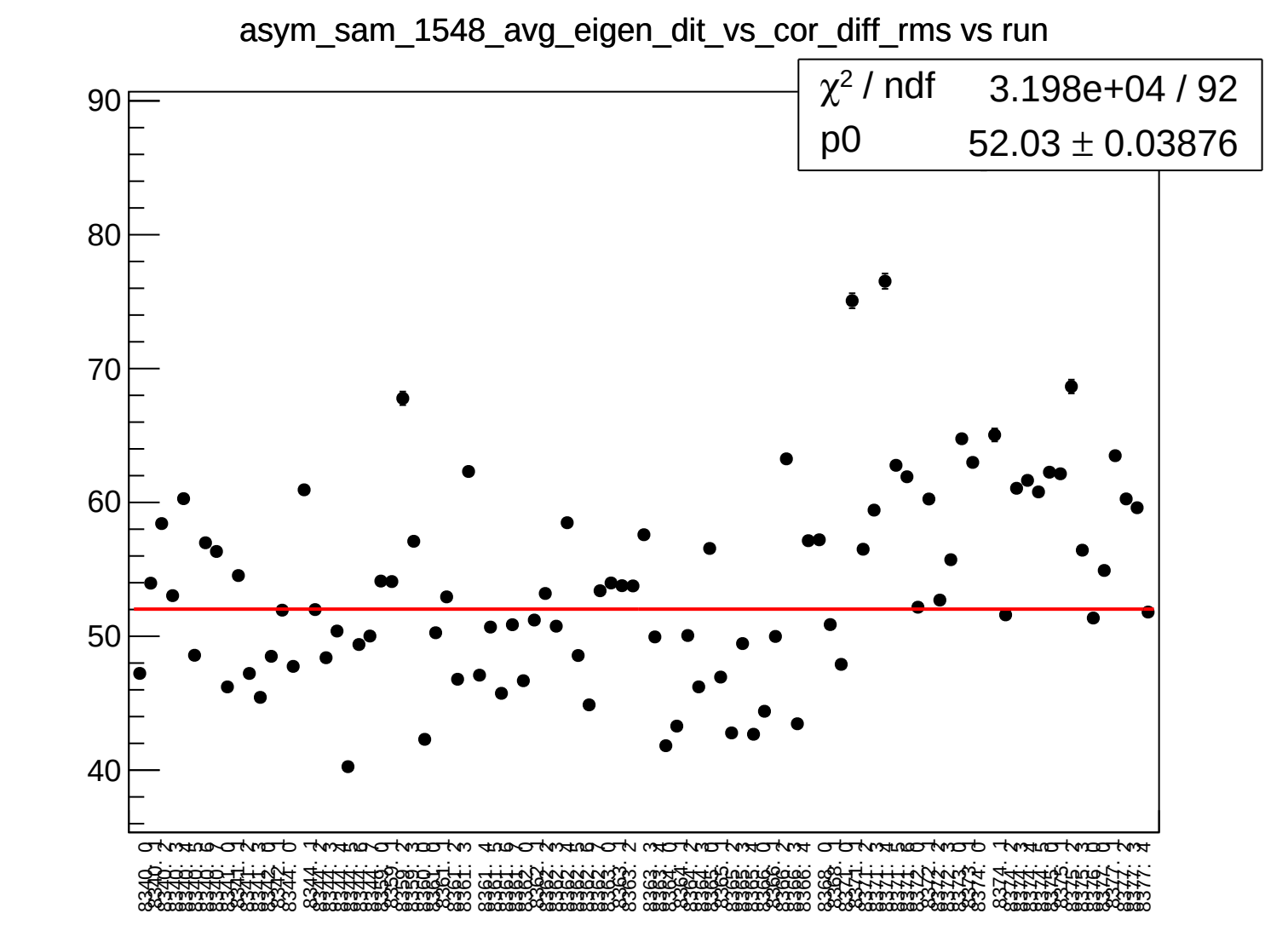

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.198e+04 / 92
p0 52.03 ± 0.03876
90
80
70
60
50
40

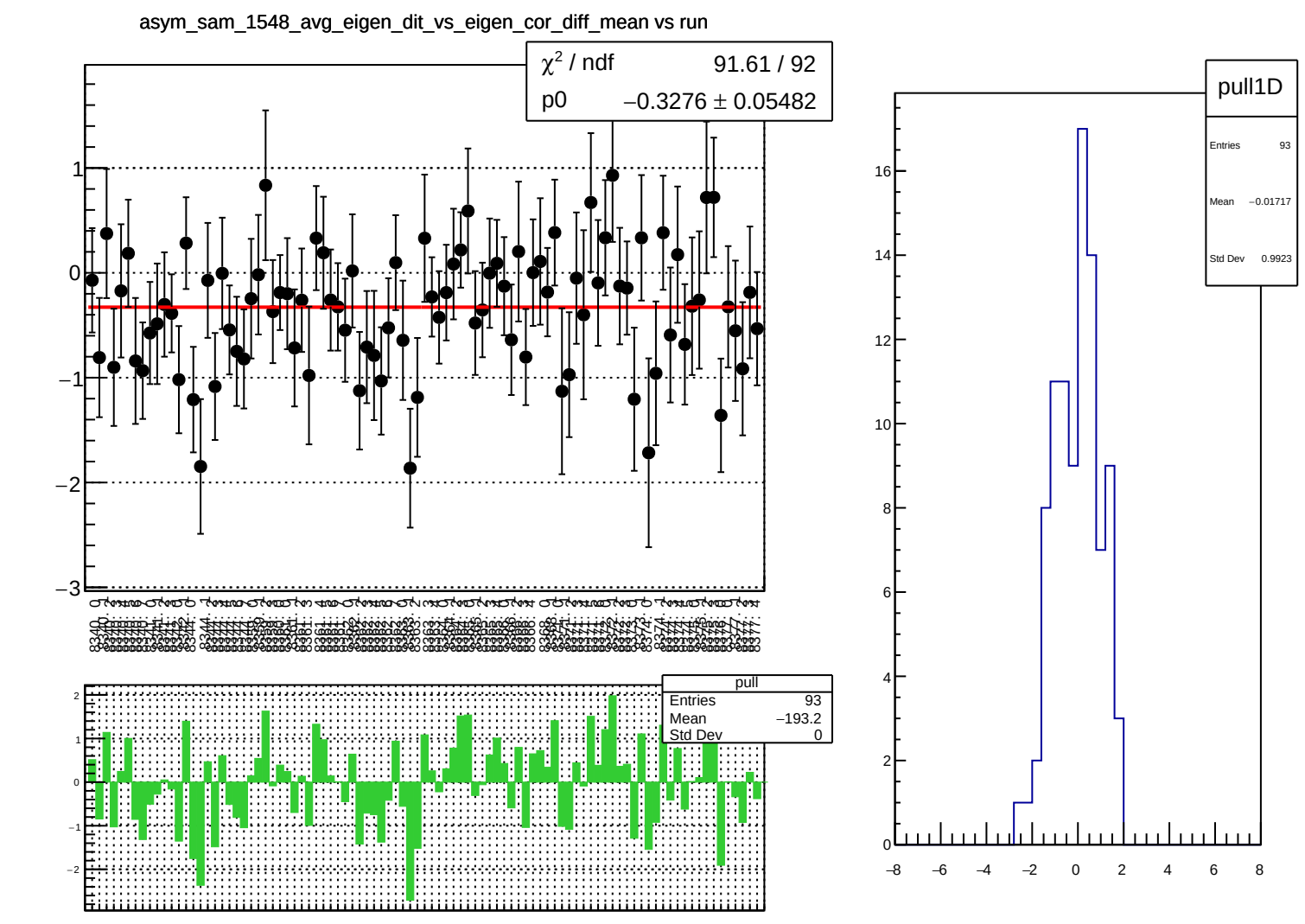

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.5 / 92
p0 −1.403e−06 ± 1.126e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 76.14
Std Dev 41.14
2
1
0
−1
−2
−3

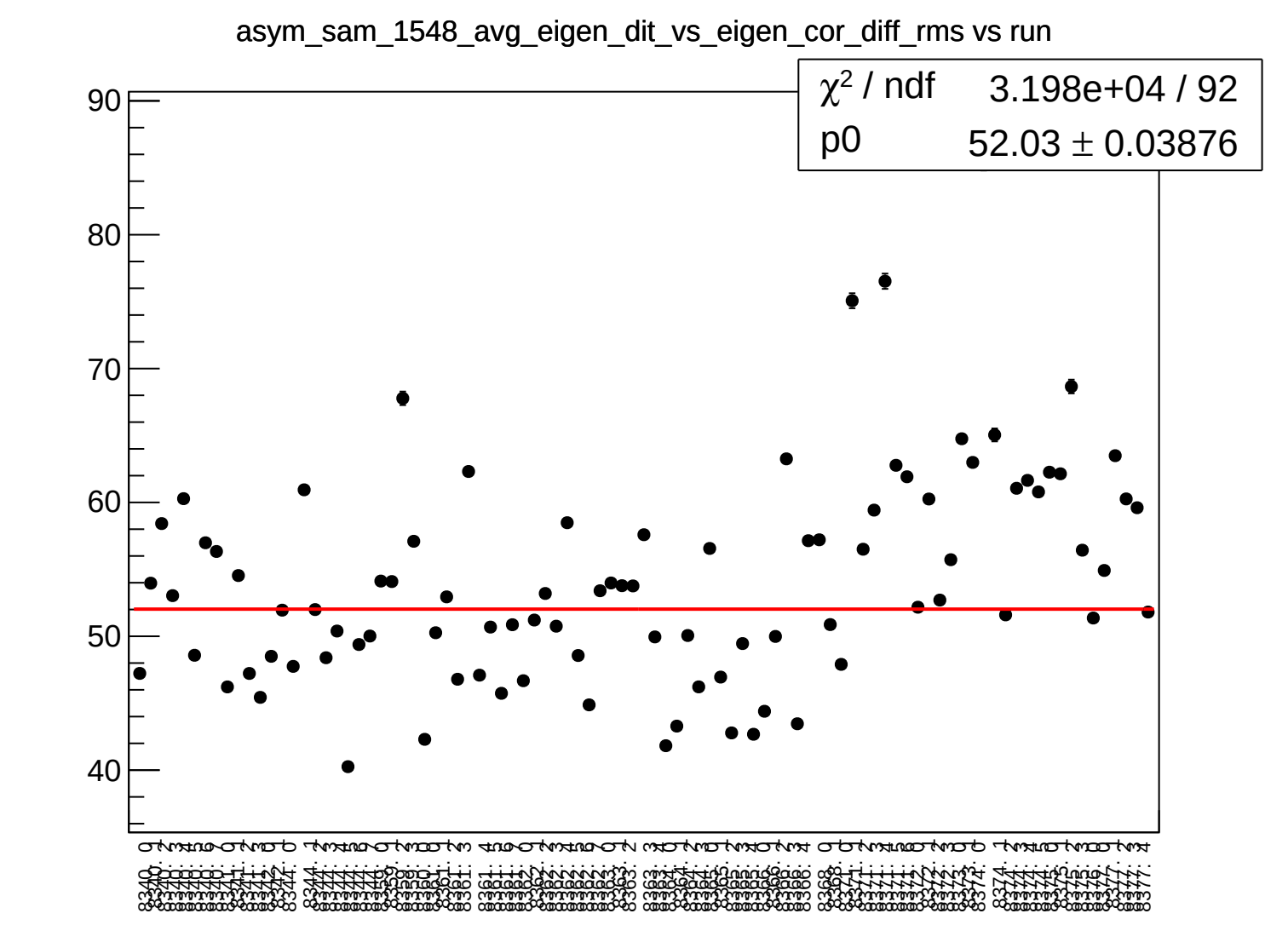

pull1D
Entries 93
Mean 0.09483
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

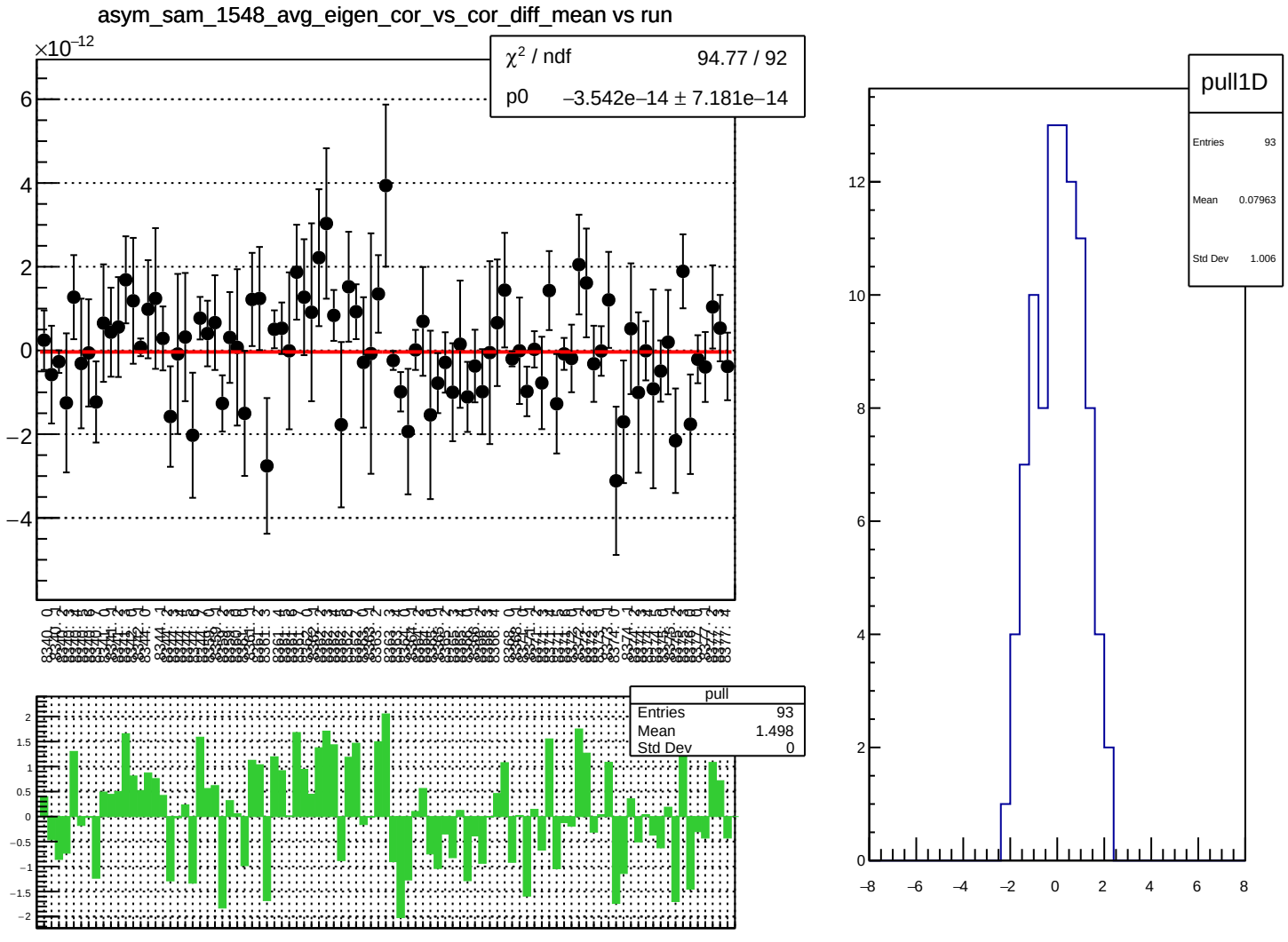

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.359e+05 / 92
p0 0.001037 ± 7.962e−07
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

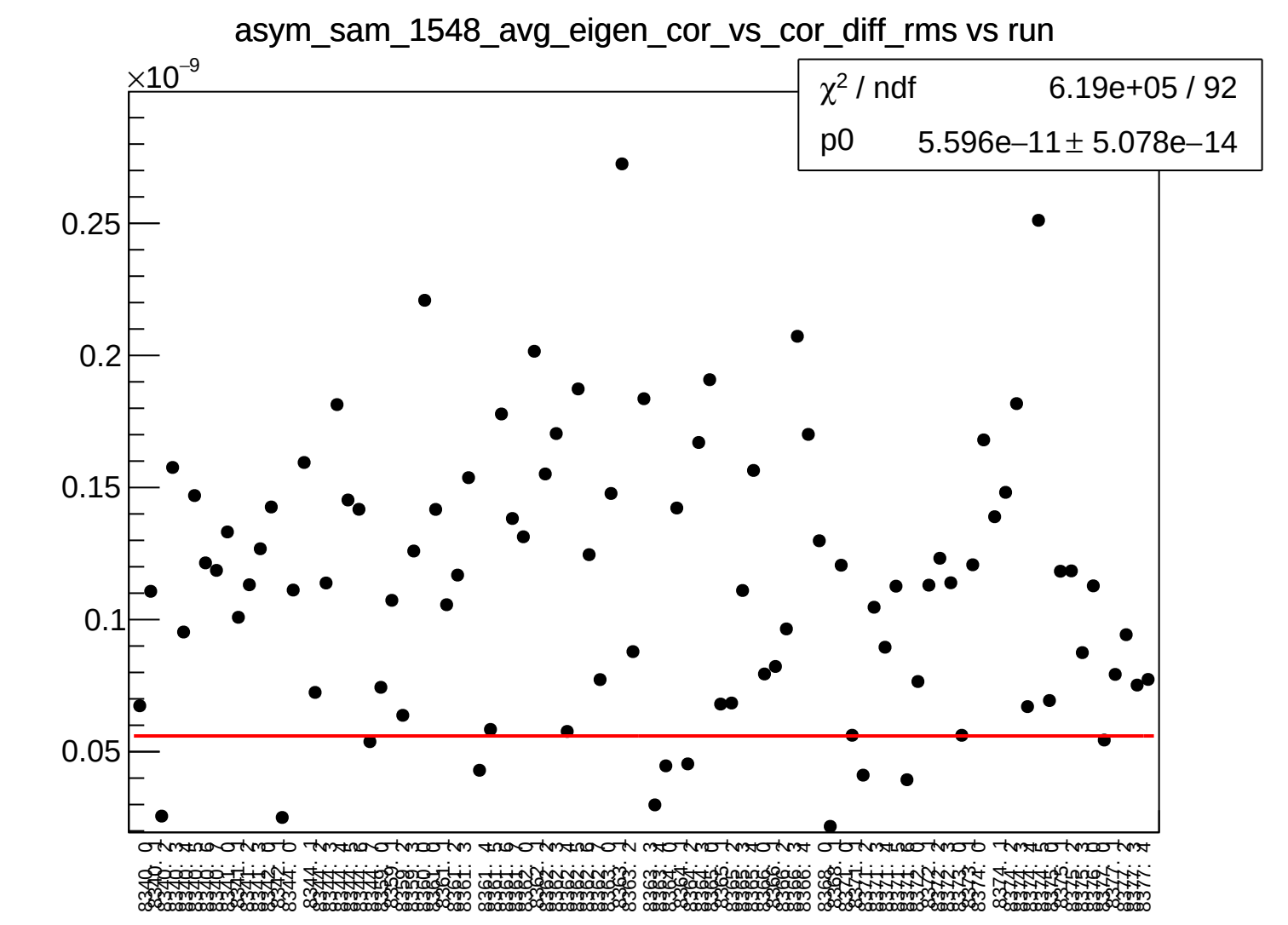

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 92
p0 −0.3276 ± 0.05482
pull
Entries 93
Mean −193.2
Std Dev 0
pull1D
Entries 93
Mean −0.01717
Std Dev 0.9923

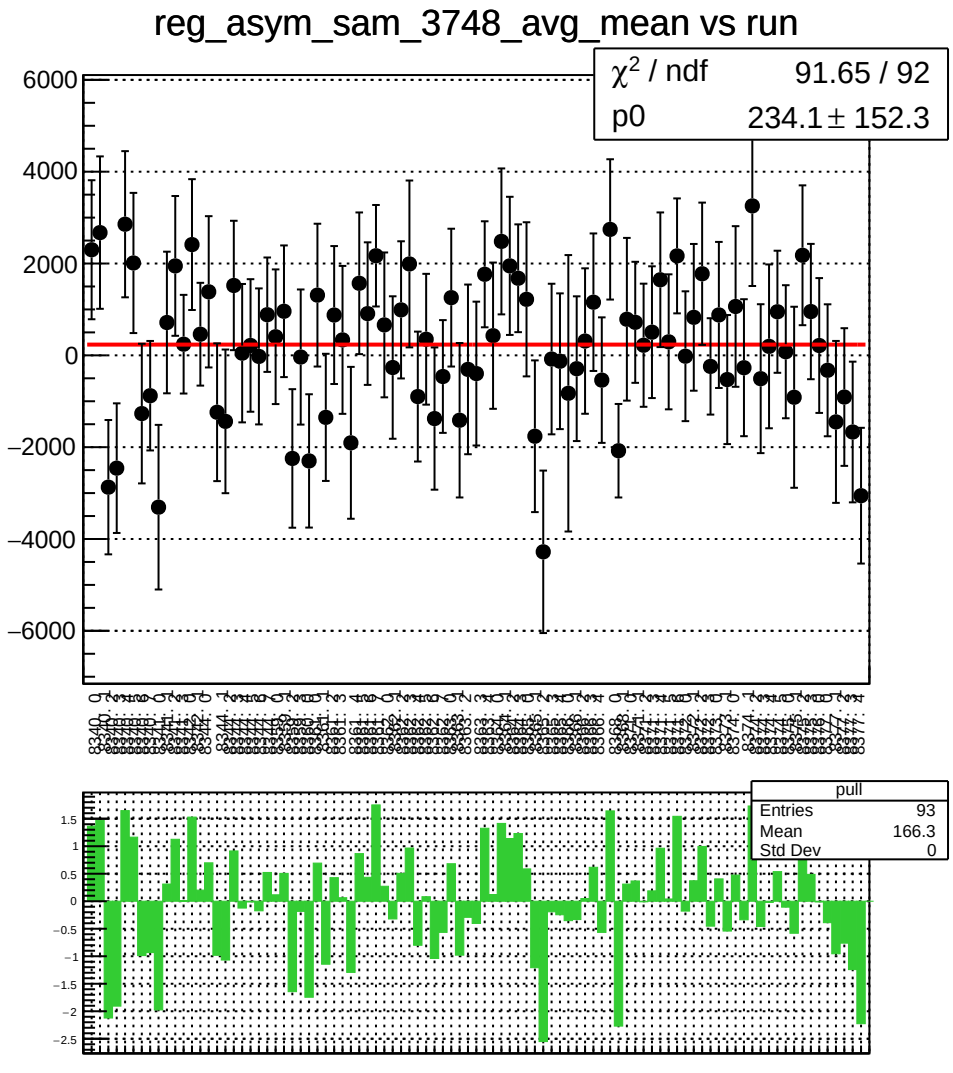

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.198e+04 / 92
p0 52.03 ± 0.03876
90
80
70
60
50
40

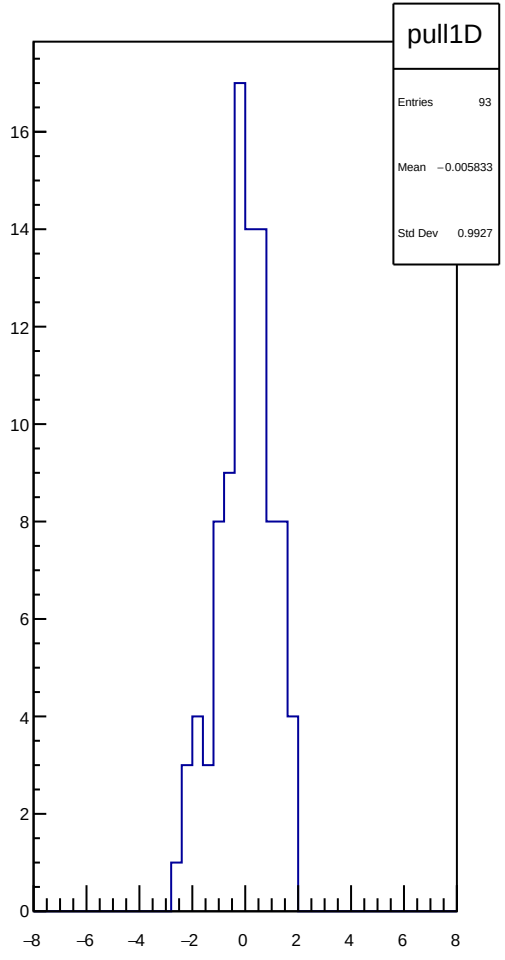

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 92
p0 −0.3276 ± 0.05482
pull
Entries 93
Mean −193.2
Std Dev 0
pull1D
Entries 93
Mean −0.01717
Std Dev 0.9923

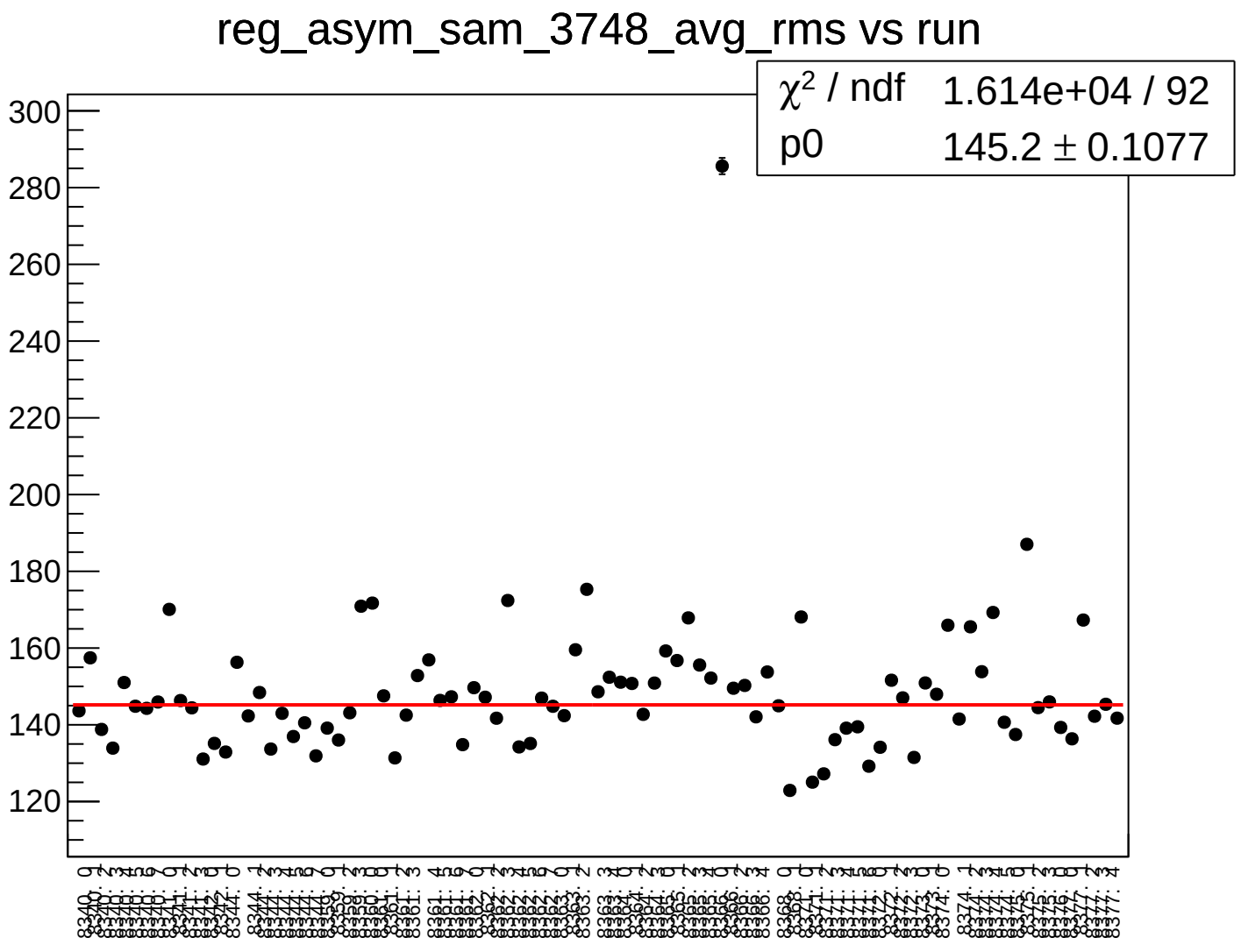

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.198e+04 / 92
p0 52.03 ± 0.03876
90
80
70
60
50
40

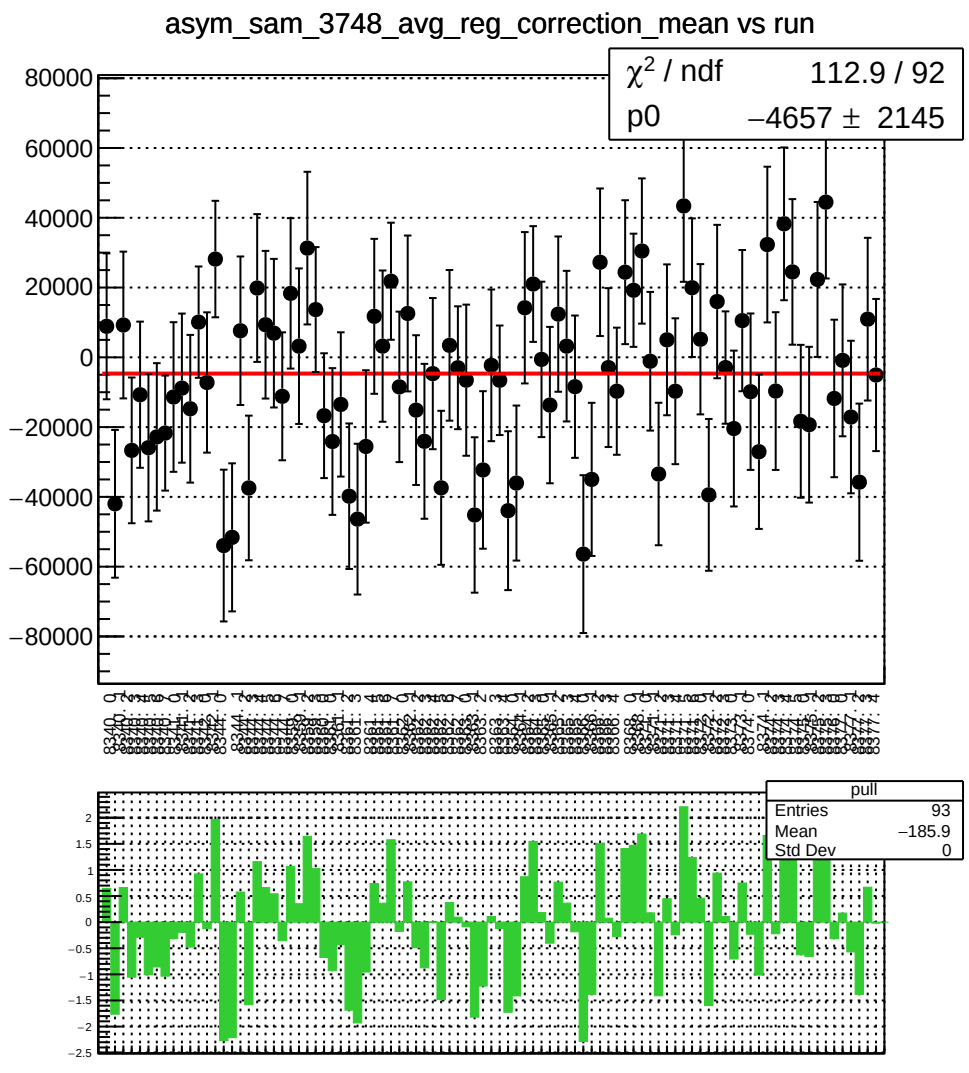

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.77 / 92
p0 −3.542e−14 ± 7.181e−14
pull
Entries 93
Mean 1.498
Std Dev 0
pull1D
Entries 93
Mean 0.07963
Std Dev 1.006

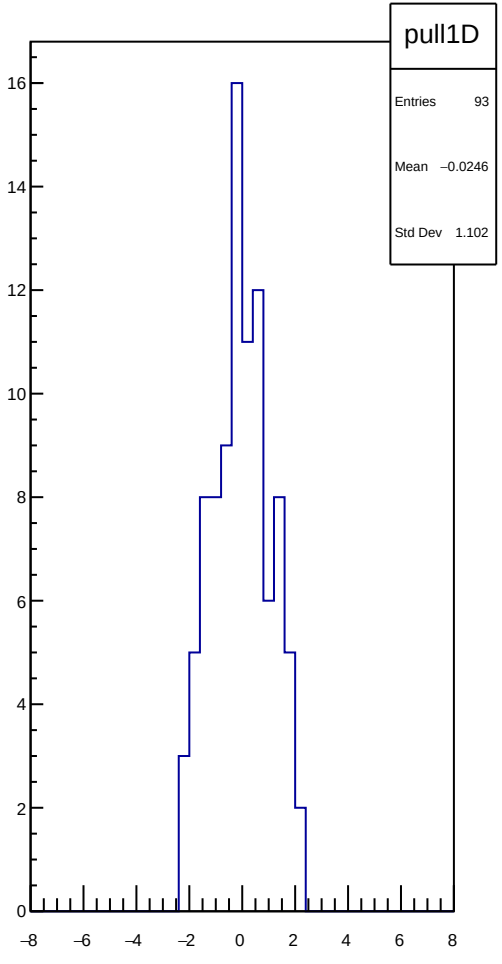

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.19e+05 / 92
p0 5.596e−11 ± 5.078e−14
0.25
0.2
0.15
0.1
0.05

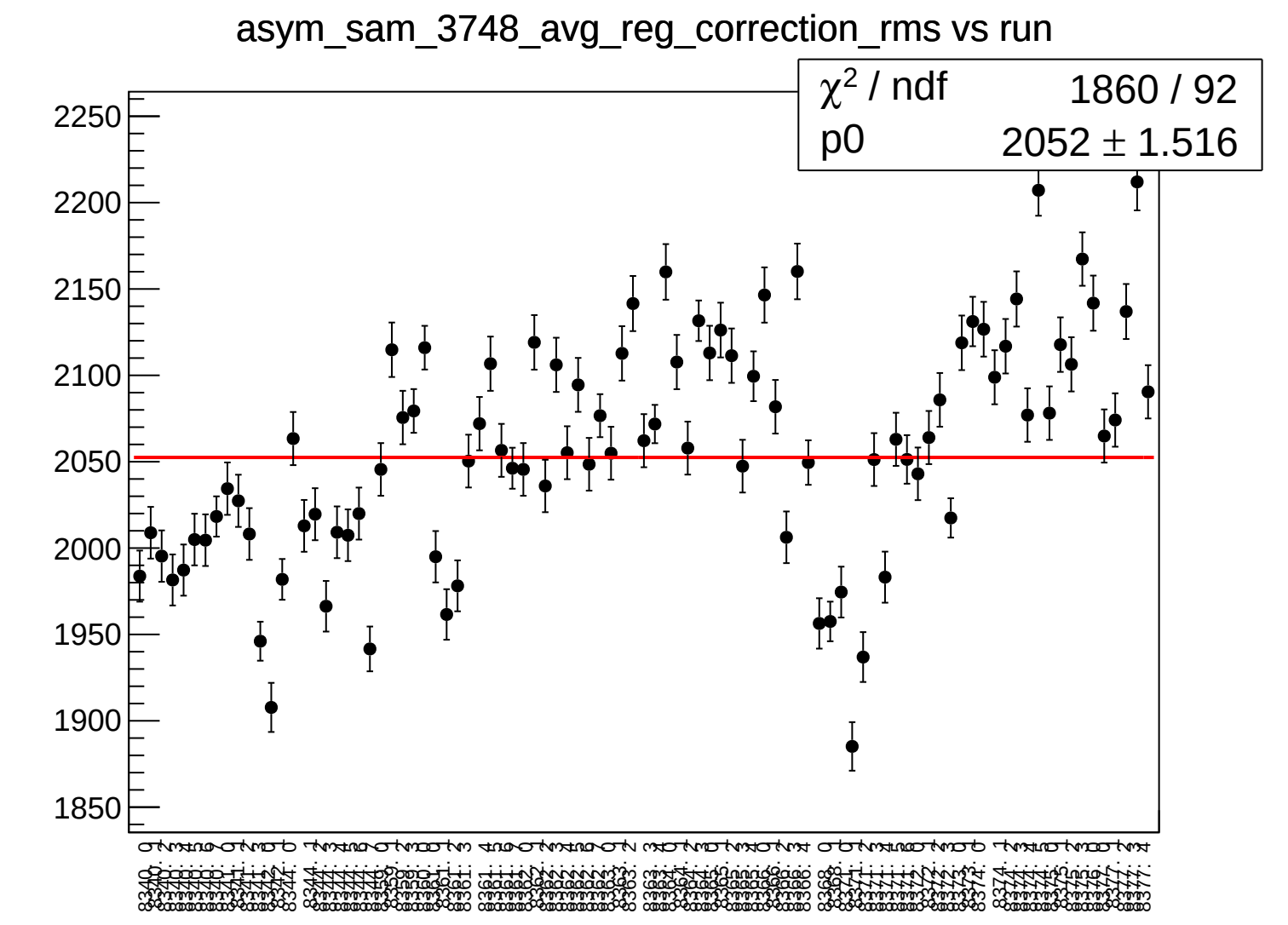

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 91.65 / 92
p0 234.1 ± 152.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 166.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

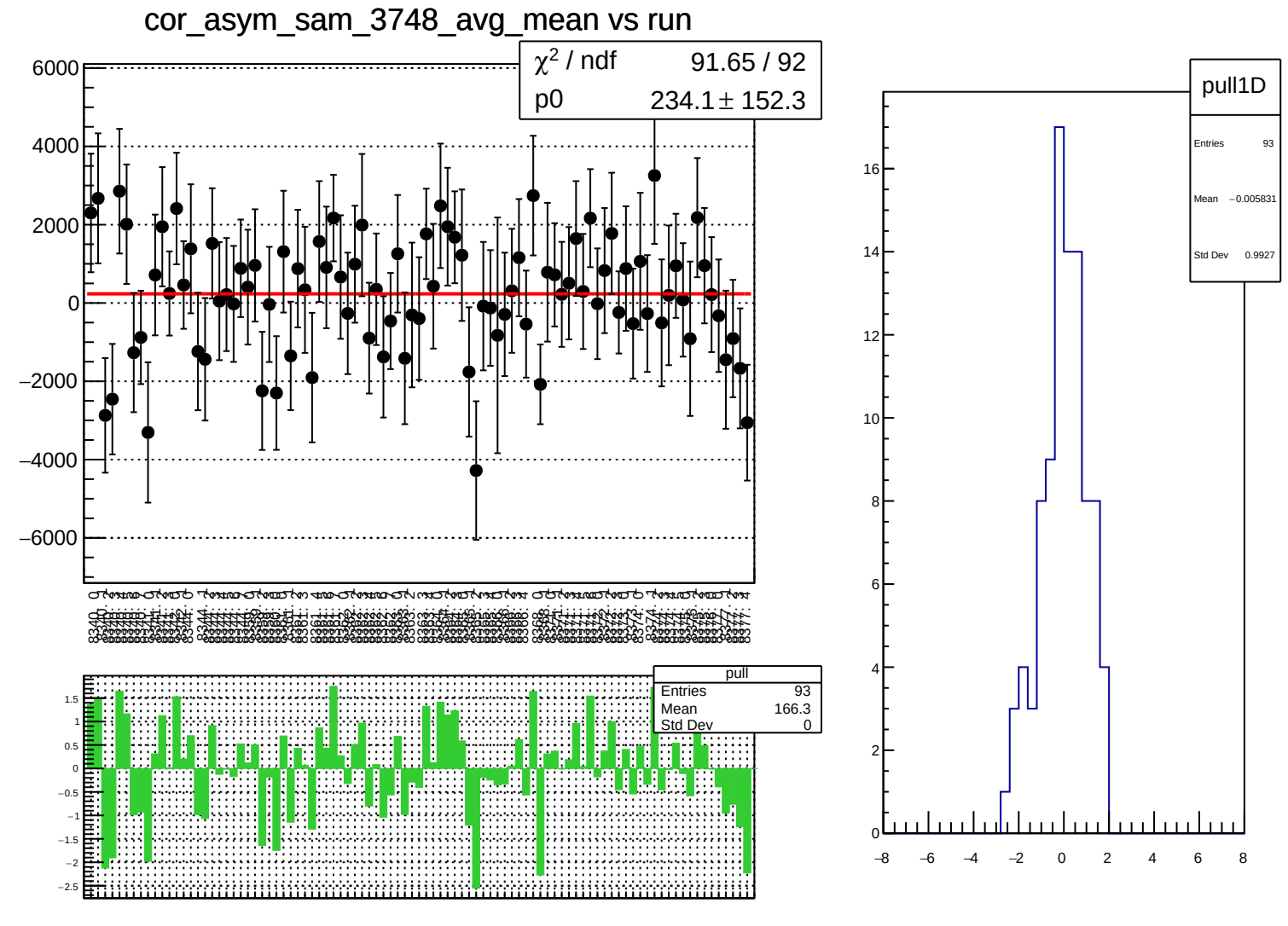

pull1D
Entries 93
Mean −0.005833
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

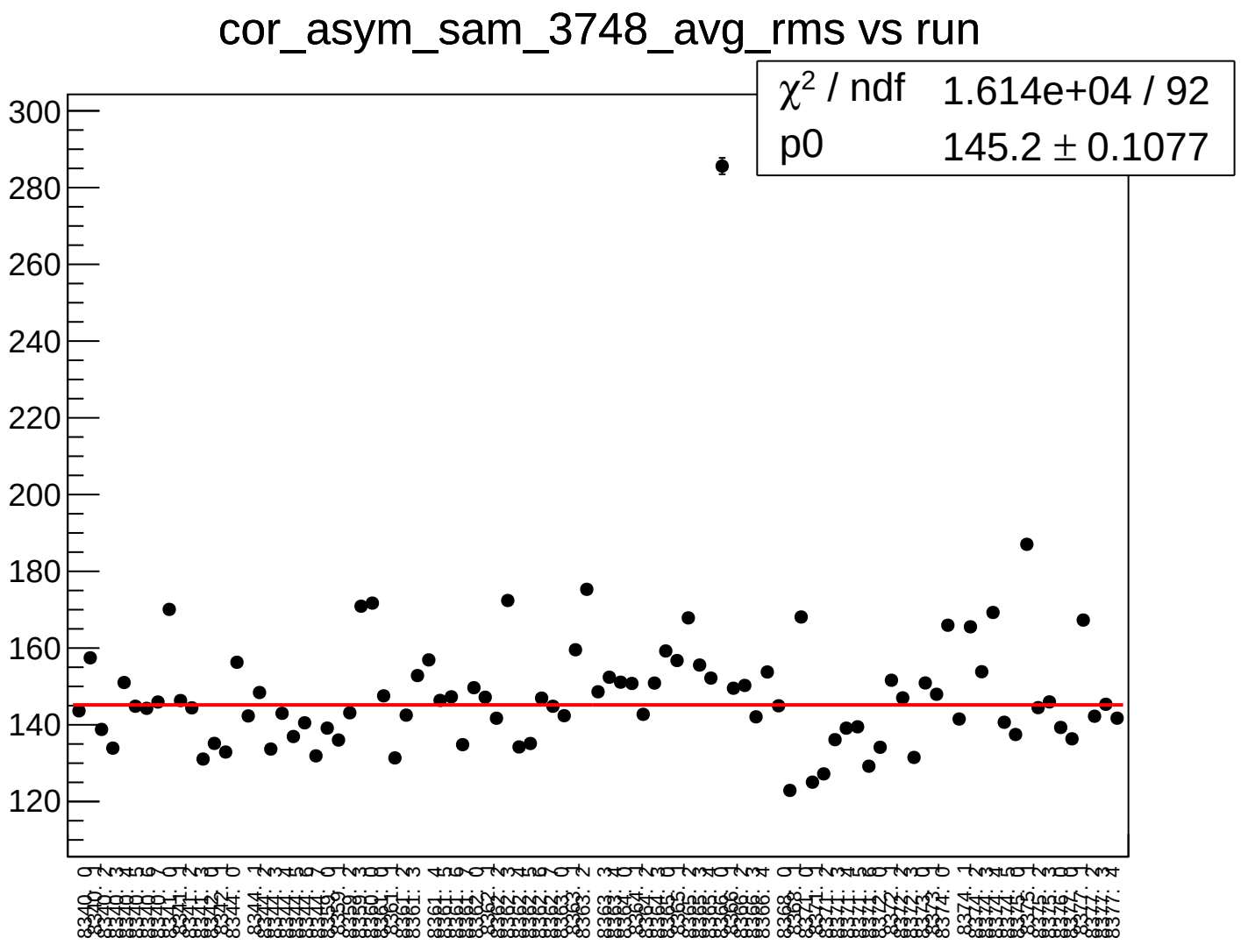

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.614e+04 / 92
p0 145.2 ± 0.1077
300
280
260
240
220
200
180
160
140
120

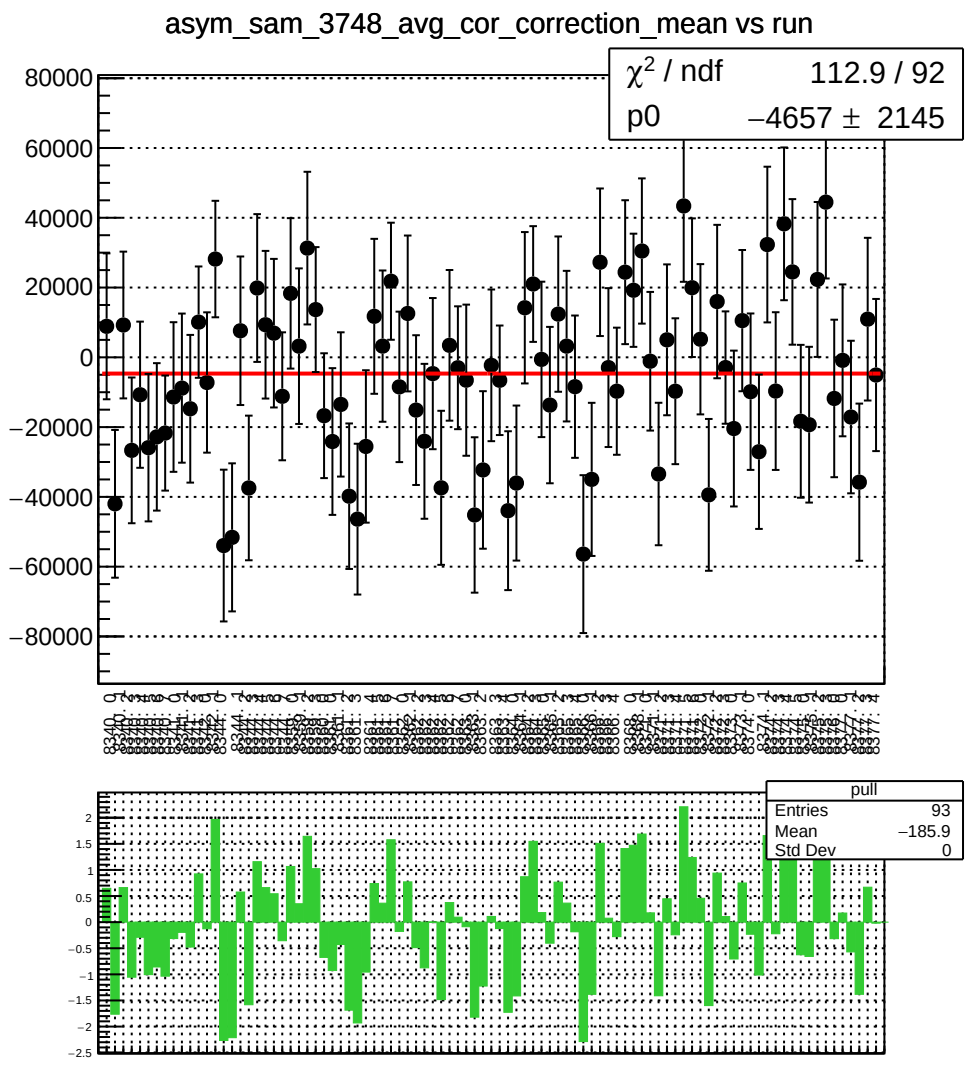

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −4657 ± 2145
pull
Entries 93
Mean −185.9
Std Dev 0

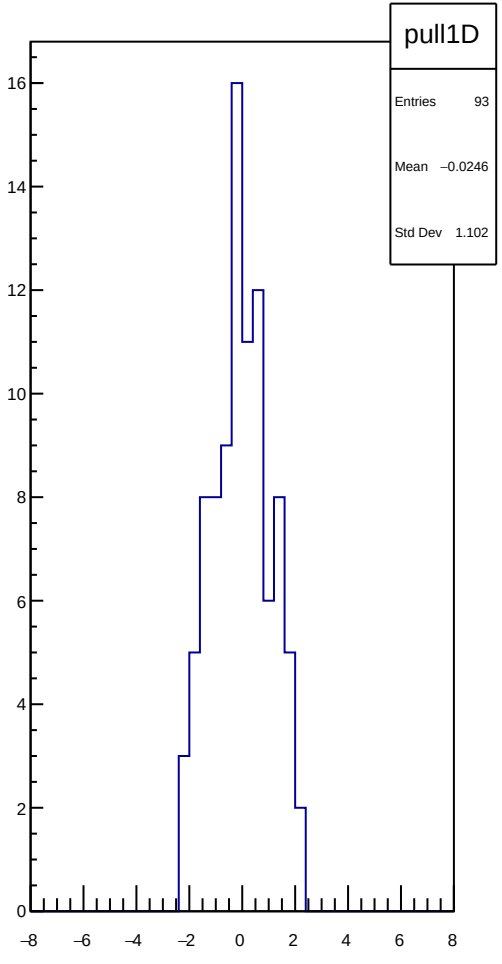

pull1D
Entries 93
Mean −0.0246
Std Dev 1.102

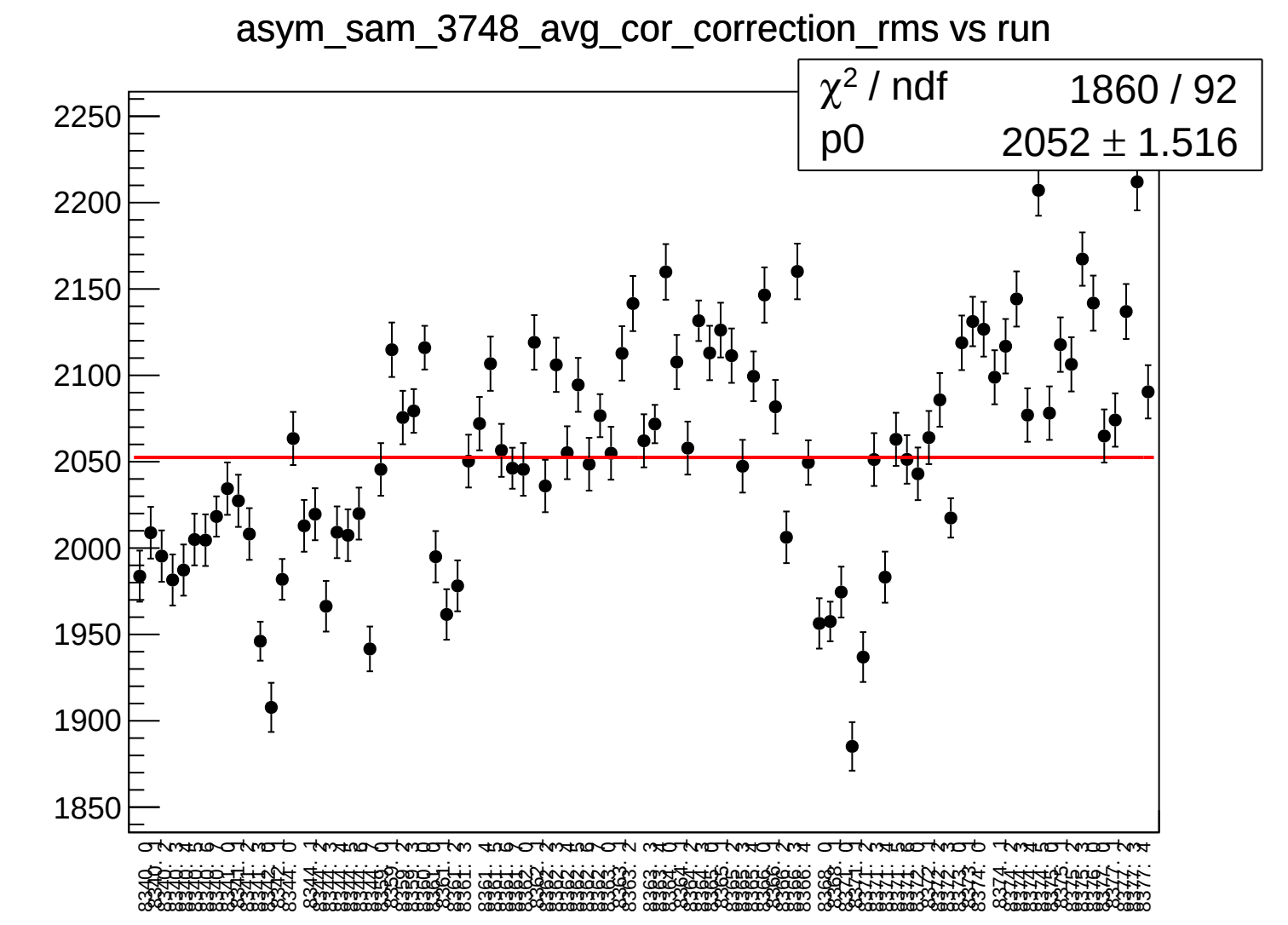

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1860 / 92
p0 2052 ± 1.516
2250
2200
2150
2100
2050
2000
1950
1900
1850

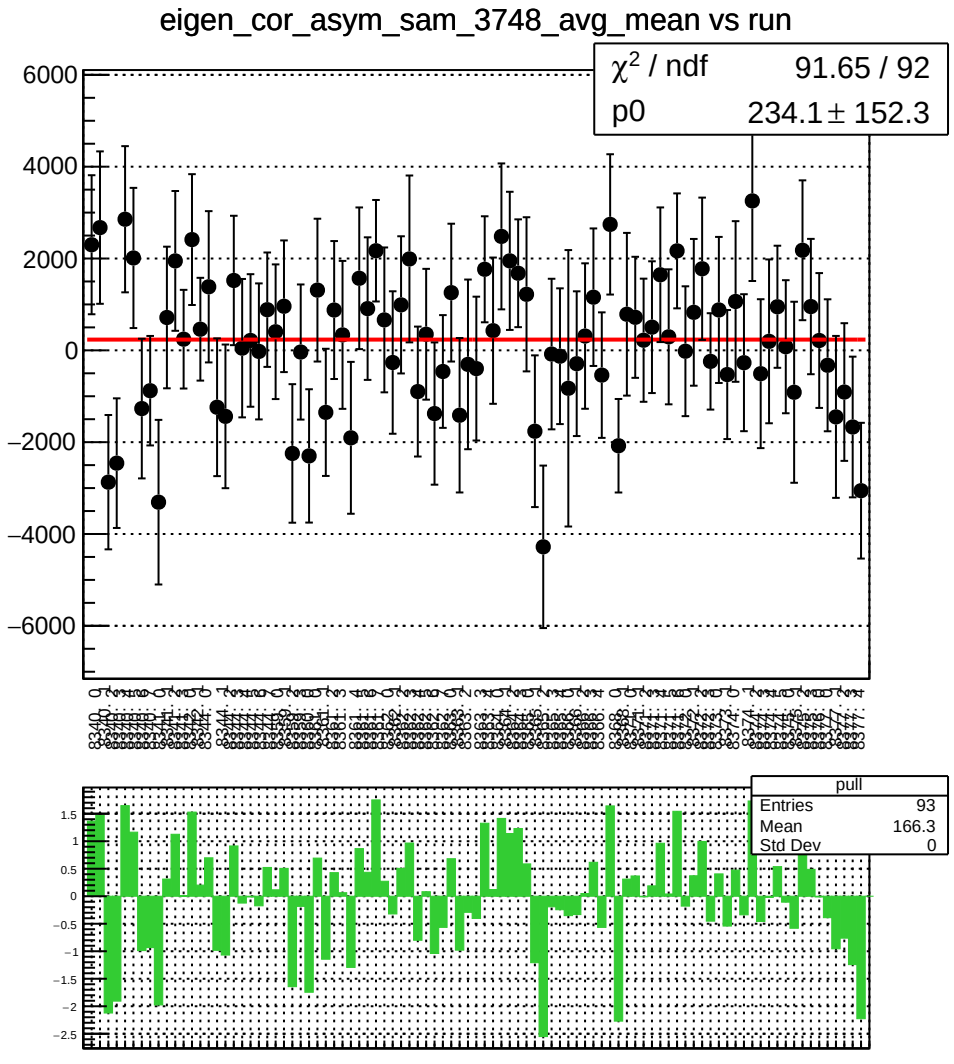

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 91.65 / 92
p0 234.1 ± 152.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 166.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean −0.005831
Std Dev 0.9927
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

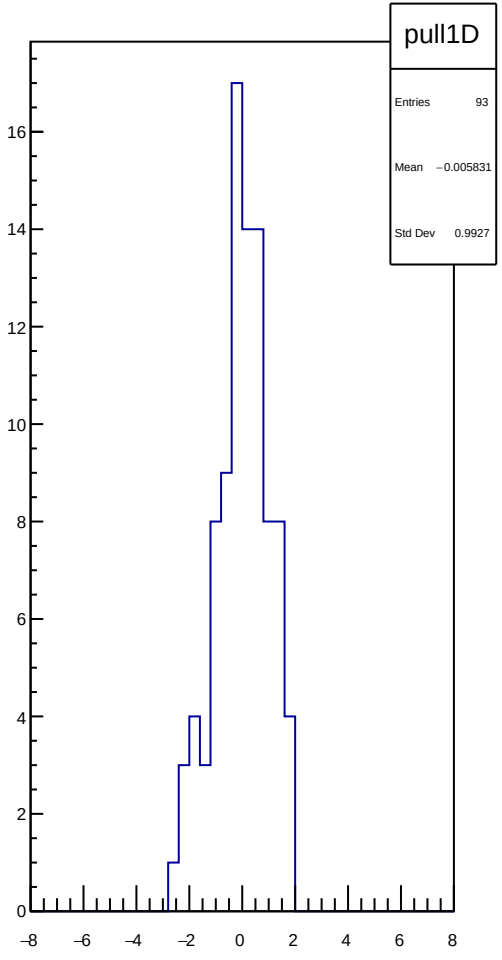

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.614e+04 / 92
p0 145.2 ± 0.1077
300
280
260
240
220
200
180
160
140
120

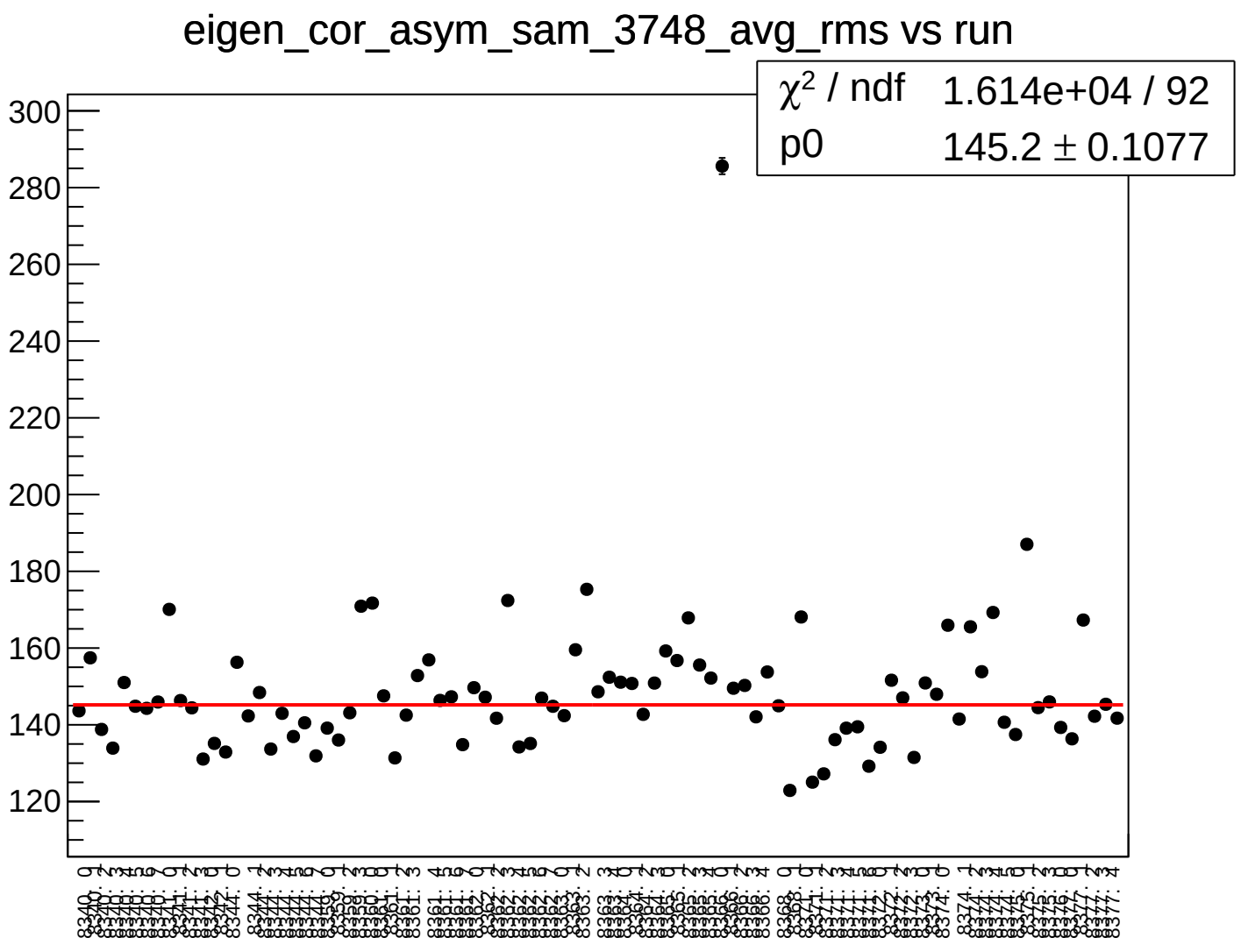

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −4657 ± 2145
pull
Entries 93
Mean −185.9
Std Dev 0

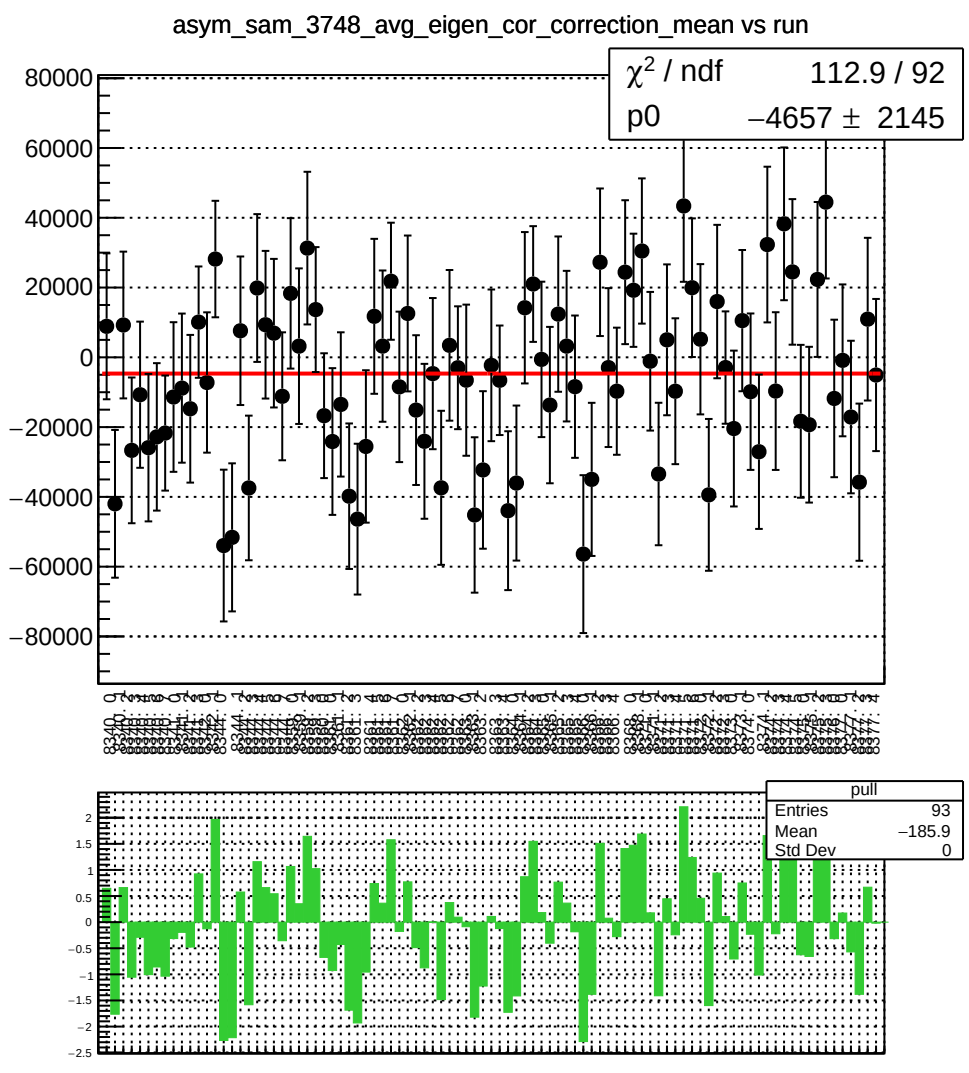

pull1D
Entries 93
Mean −0.0246
Std Dev 1.102

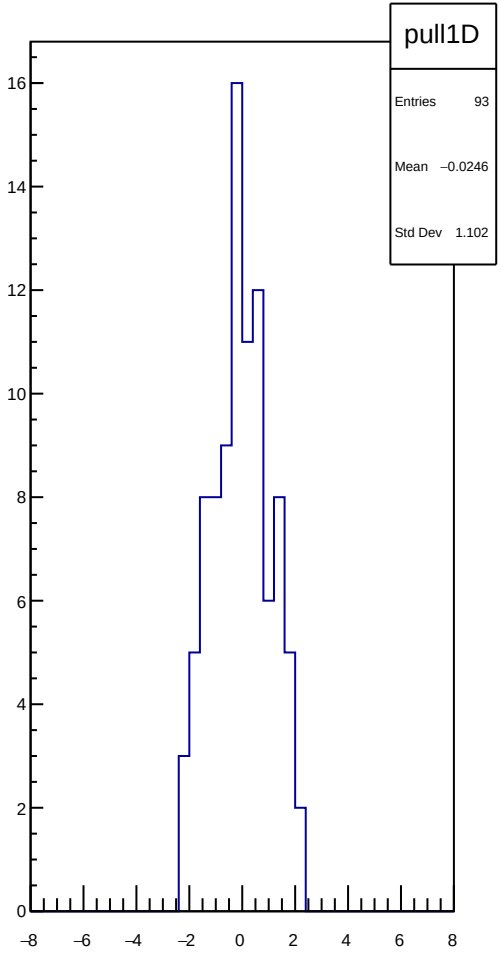

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1860 / 92
p0 2052 ± 1.516
2250
2200
2150
2100
2050
2000
1950
1900
1850

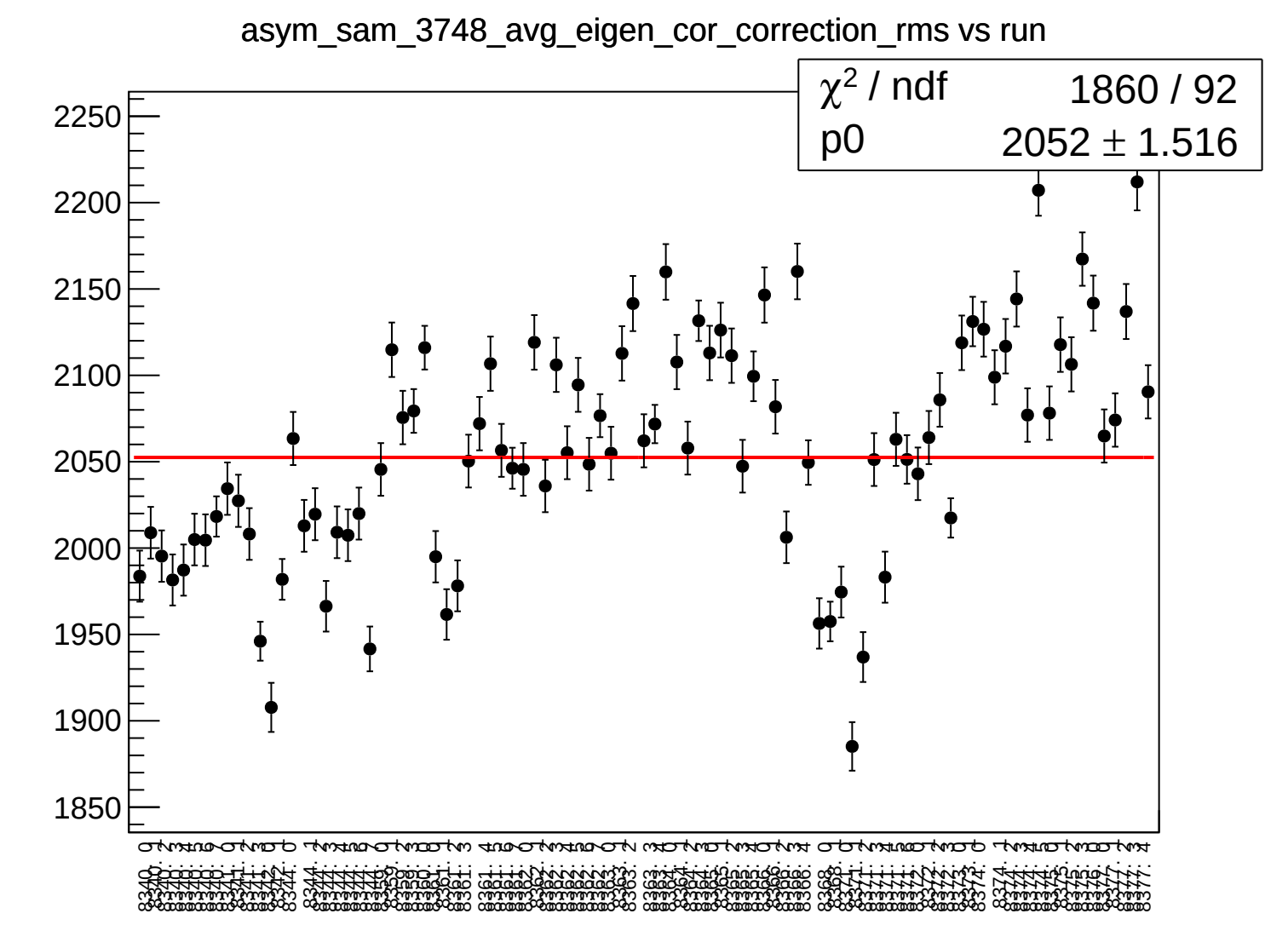

eigen_cor_asym_sam_3748_avg_mean vs run
χ^2 / ndf 91.65 / 92
p0 234.1 ± 152.3
pull
Entries 93
Mean 166.3
Std Dev 0

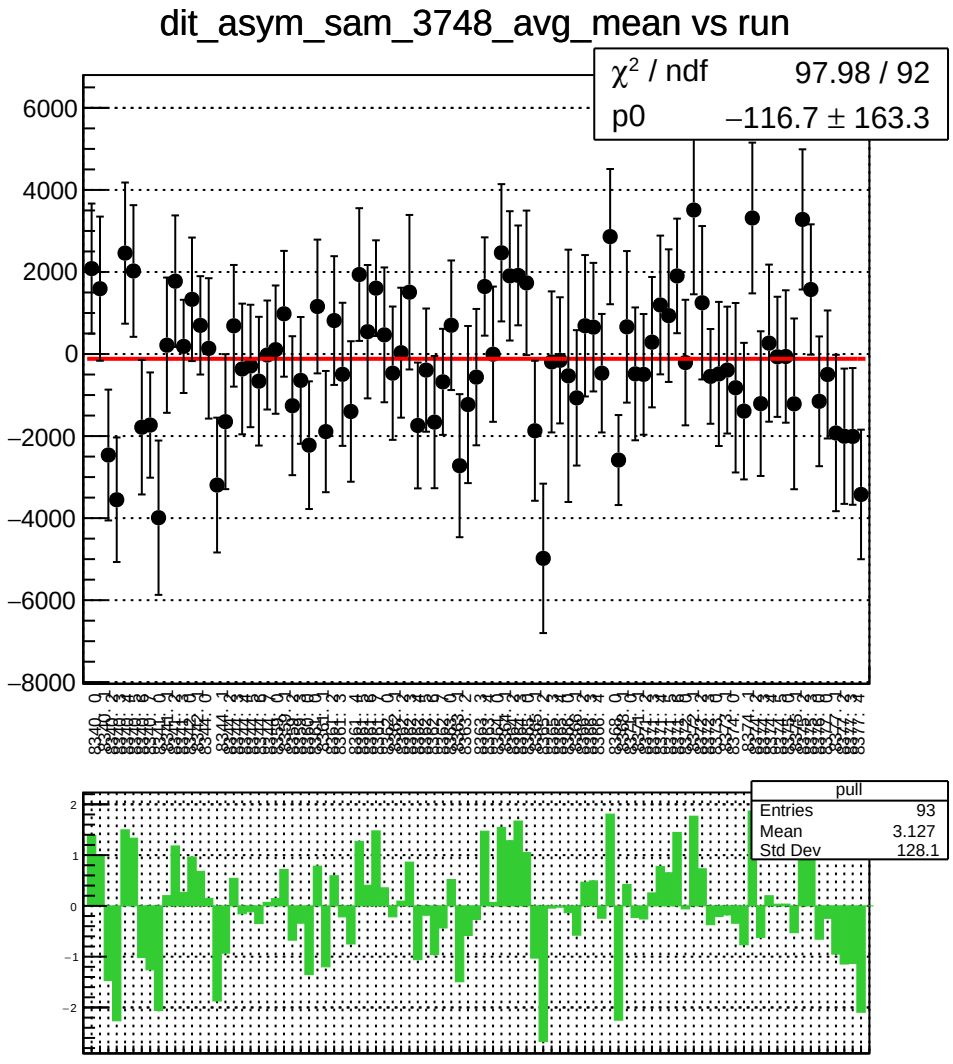

pull1D
Entries 93
Mean −0.005831
Std Dev 0.9927

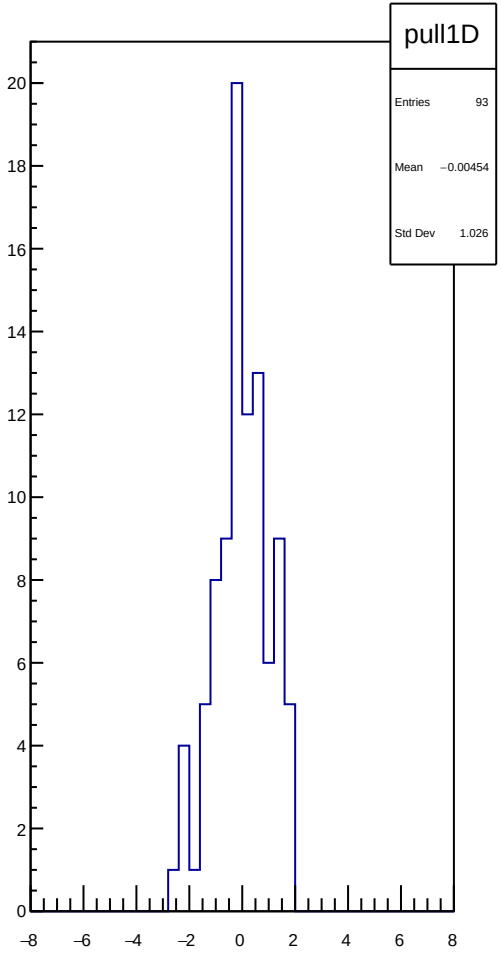

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 1.614e+04 / 92
p0 145.2 ± 0.1077
300
280
260
240
220
200
180
160
140
120

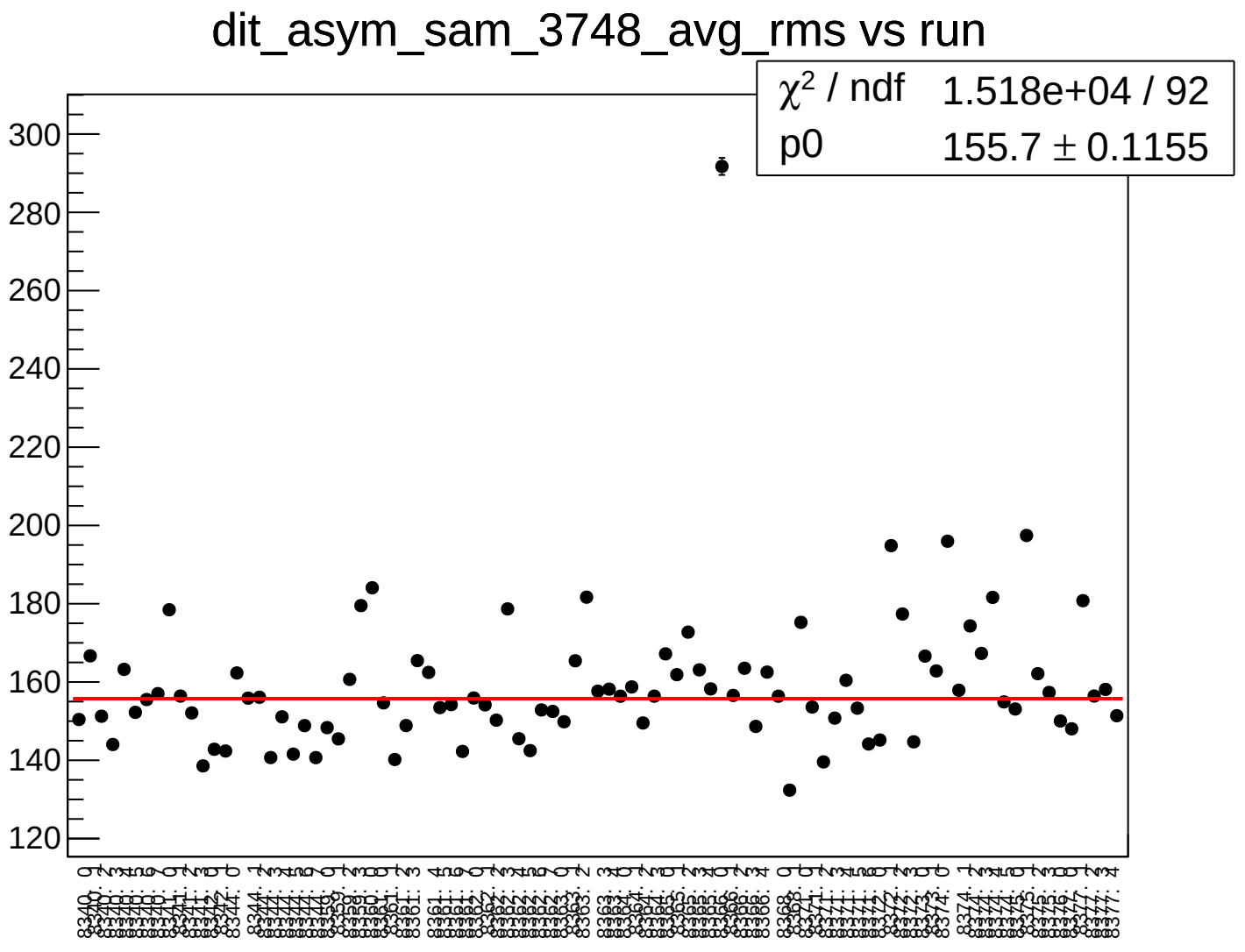

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −4657 ± 2145
pull
Entries 93
Mean −185.9
Std Dev 0

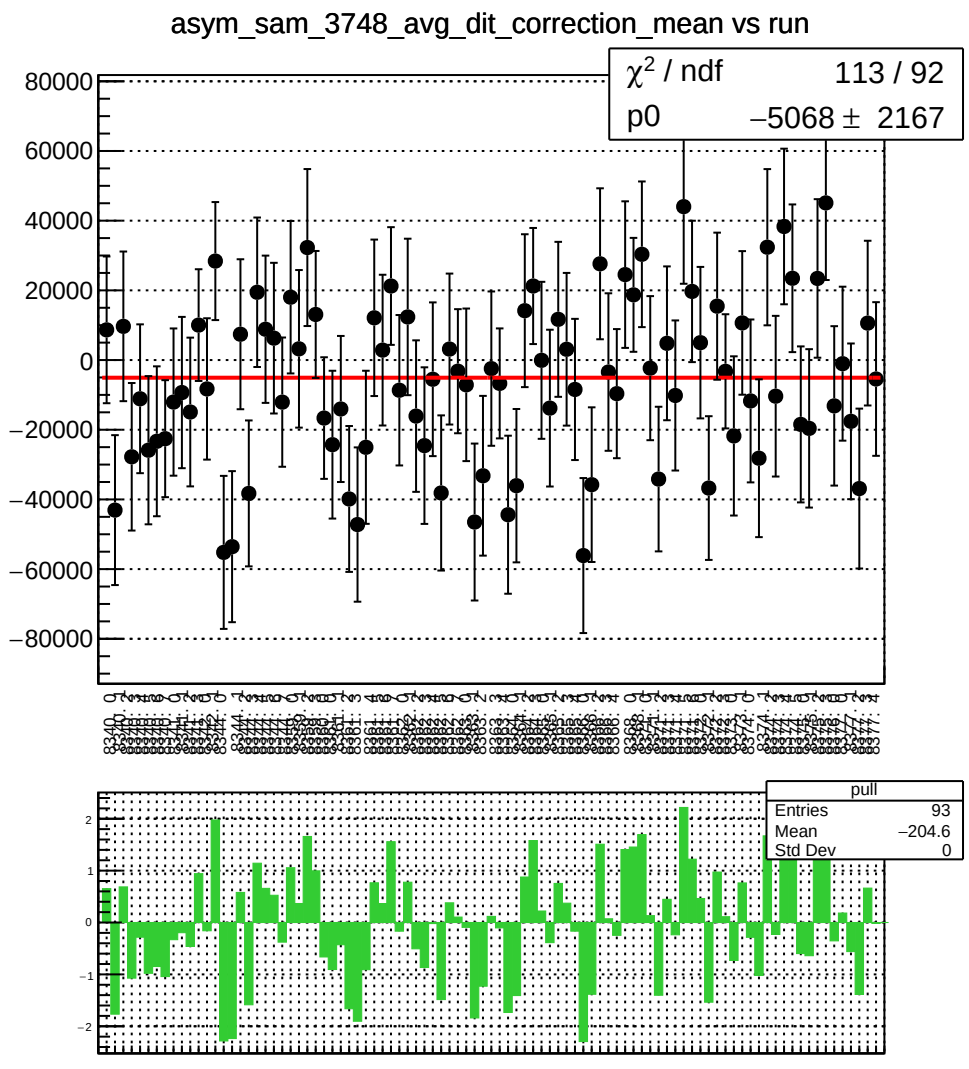

pull1D
Entries 93
Mean −0.0246
Std Dev 1.102

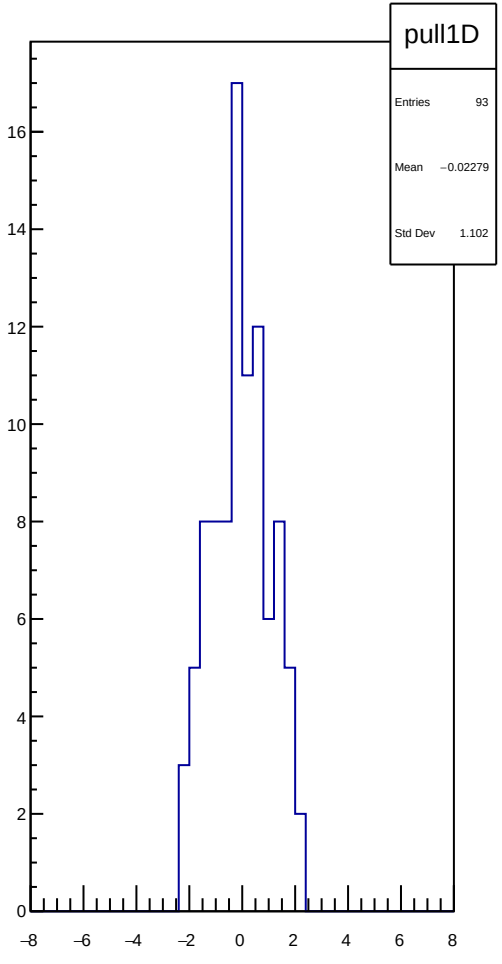

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1860 / 92
p0 2052 ± 1.516
2250
2200
2150
2100
2050
2000
1950
1900
1850

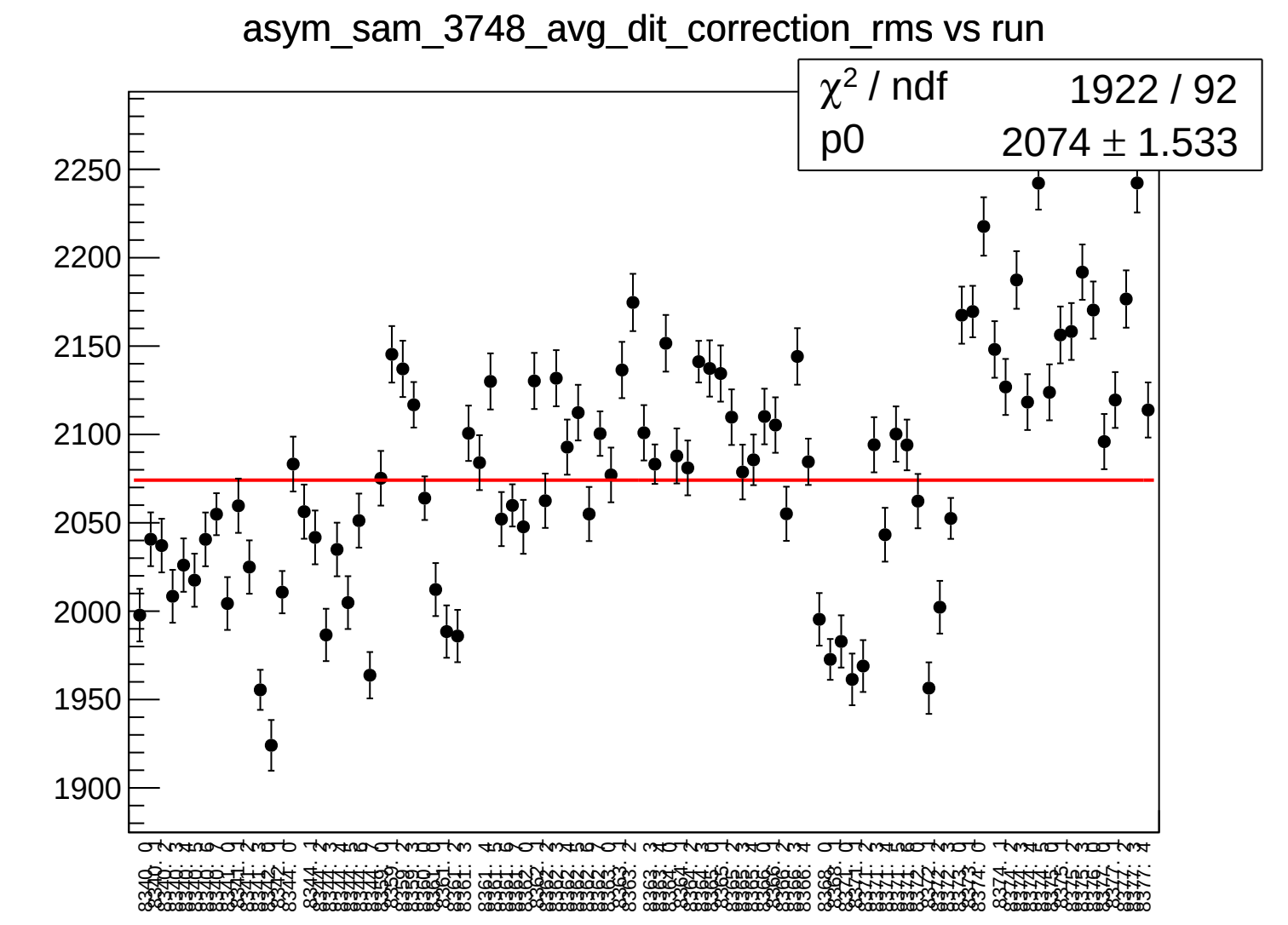

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 97.98 / 92
p0 −116.7 ± 163.3
pull
Entries 93
Mean 3.127
Std Dev 128.1

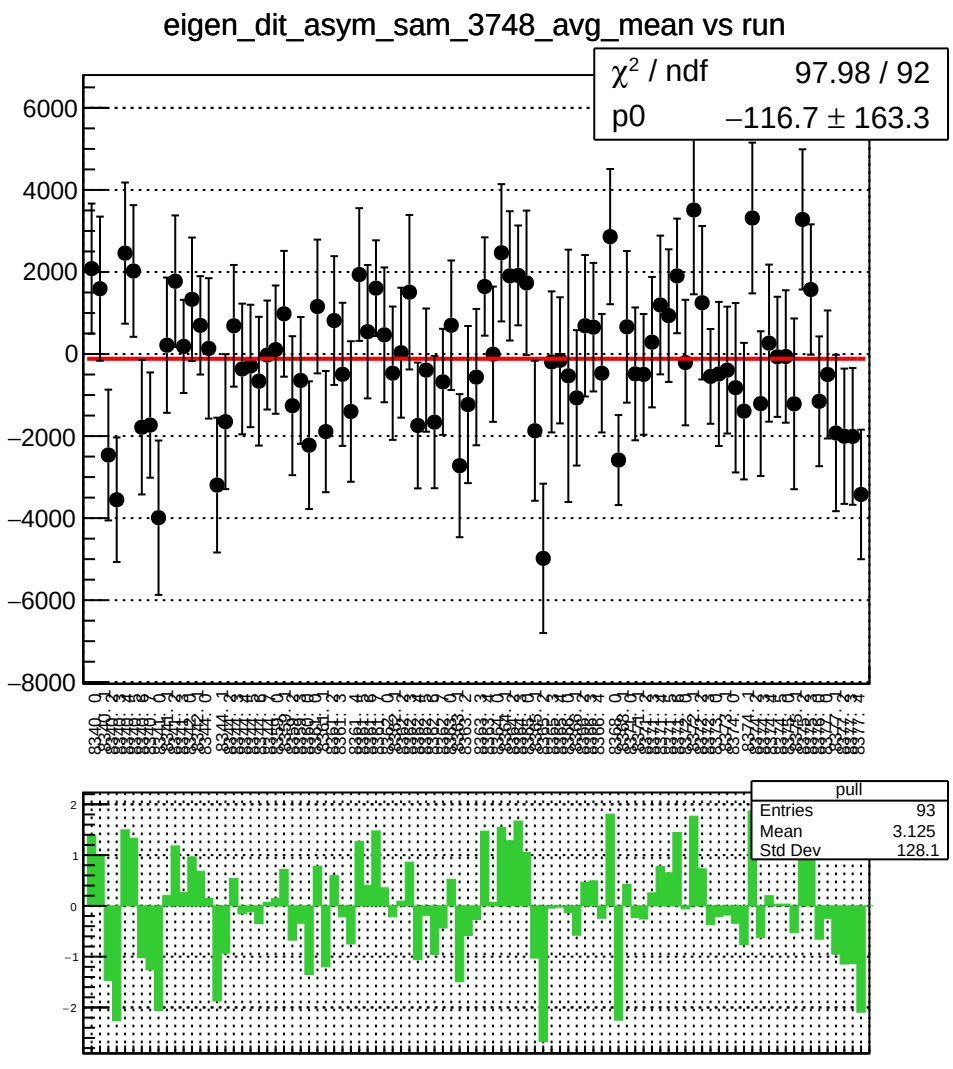

pull1D
Entries 93
Mean −0.00454
Std Dev 1.026

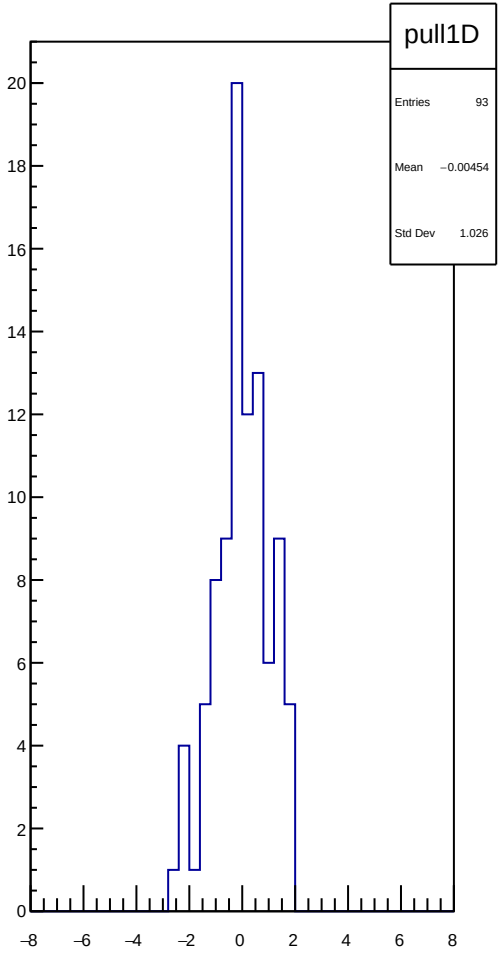

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.518e+04 / 92
p0 155.7 ± 0.1155
300
280
260
240
220
200
180
160
140
120

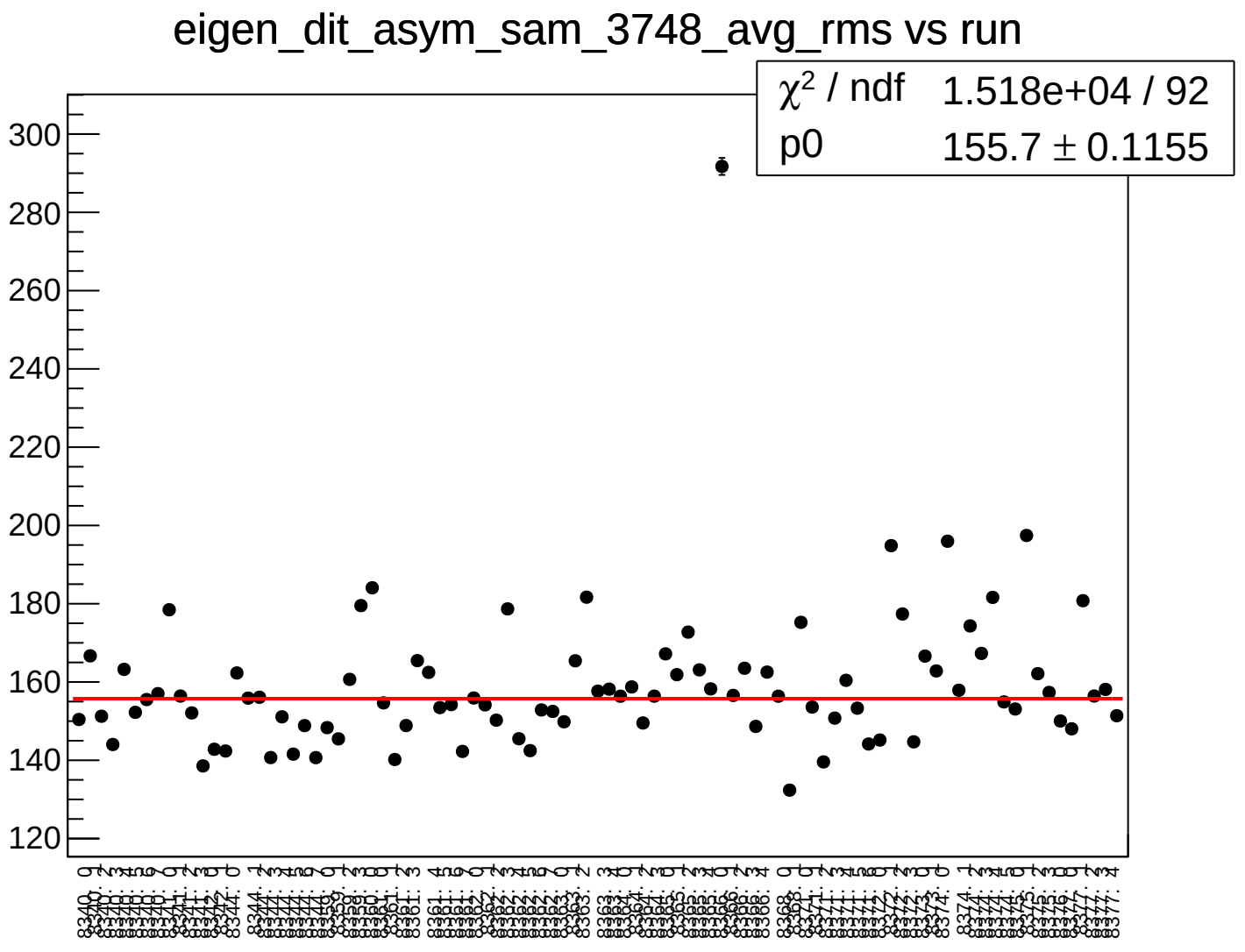

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 −5068 ± 2167
pull
Entries 93
Mean −204.6
Std Dev 0

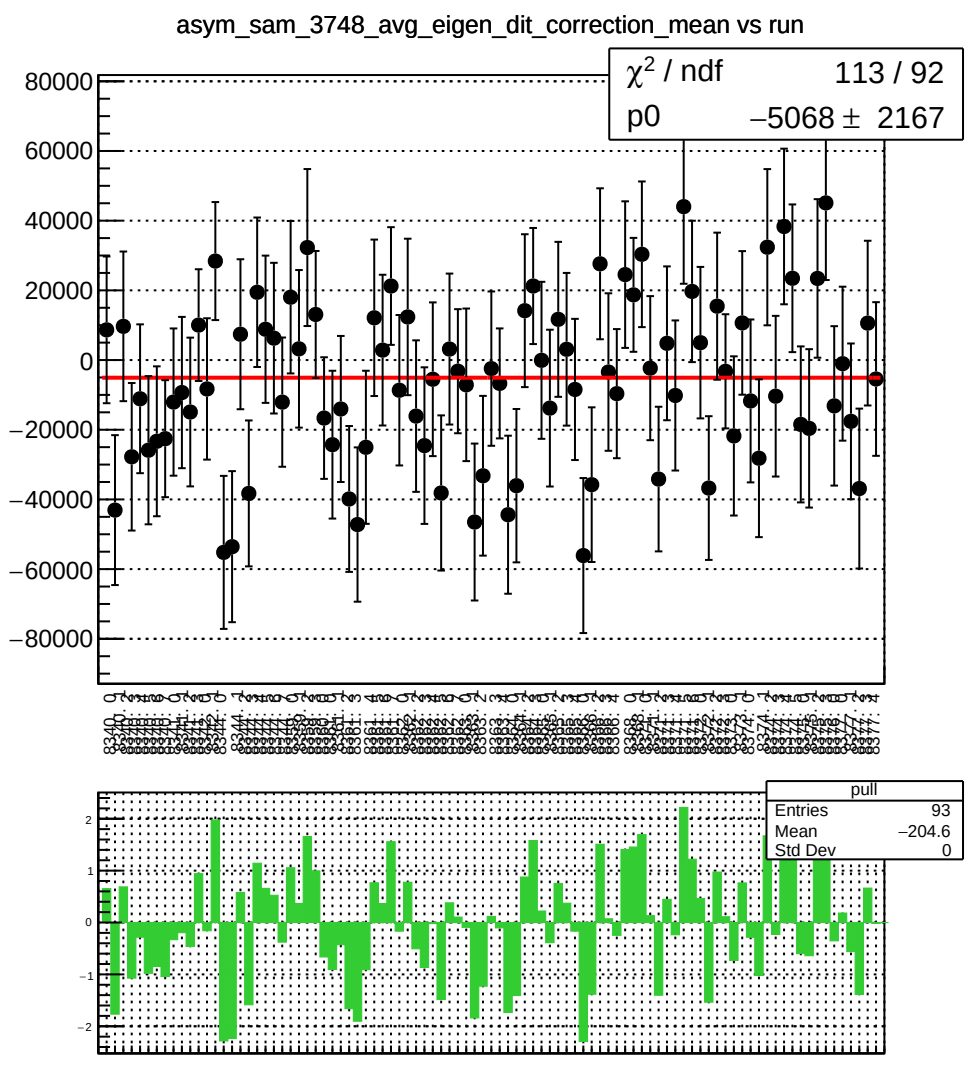

pull1D
Entries 93
Mean −0.02279
Std Dev 1.102

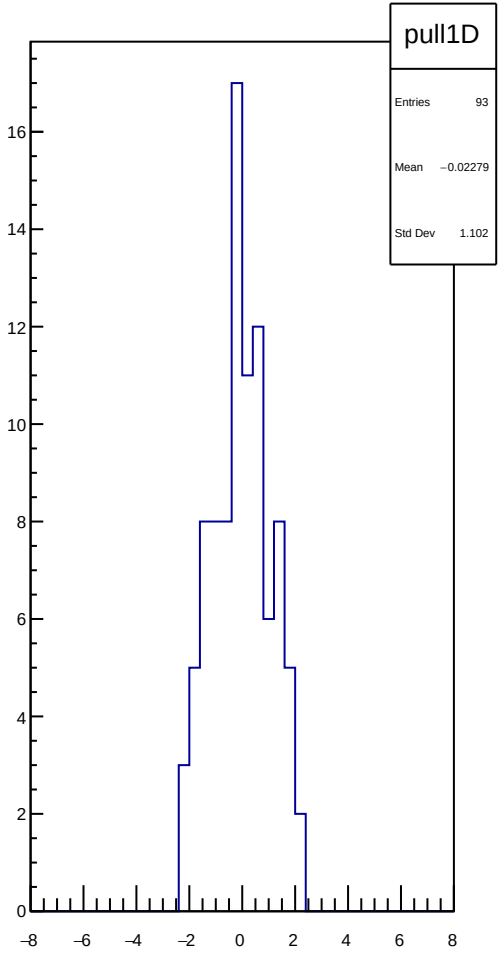

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1922 / 92
p0 2074 ± 1.533
2250
2200
2150
2100
2050
2000
1950
1900

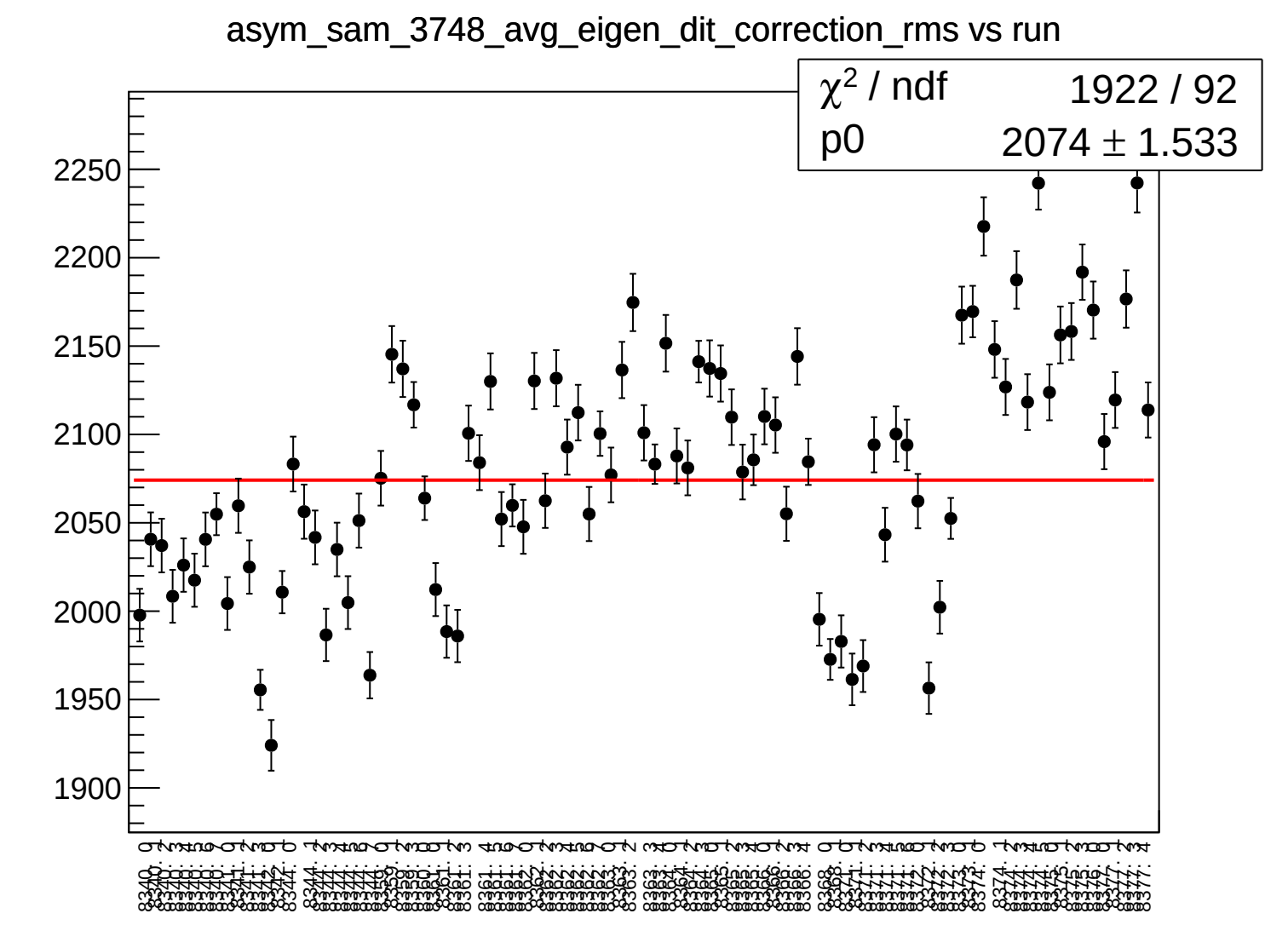

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 97.98 / 92
p0 −116.7 ± 163.3
pull
Entries 93
Mean 3.125
Std Dev 128.1

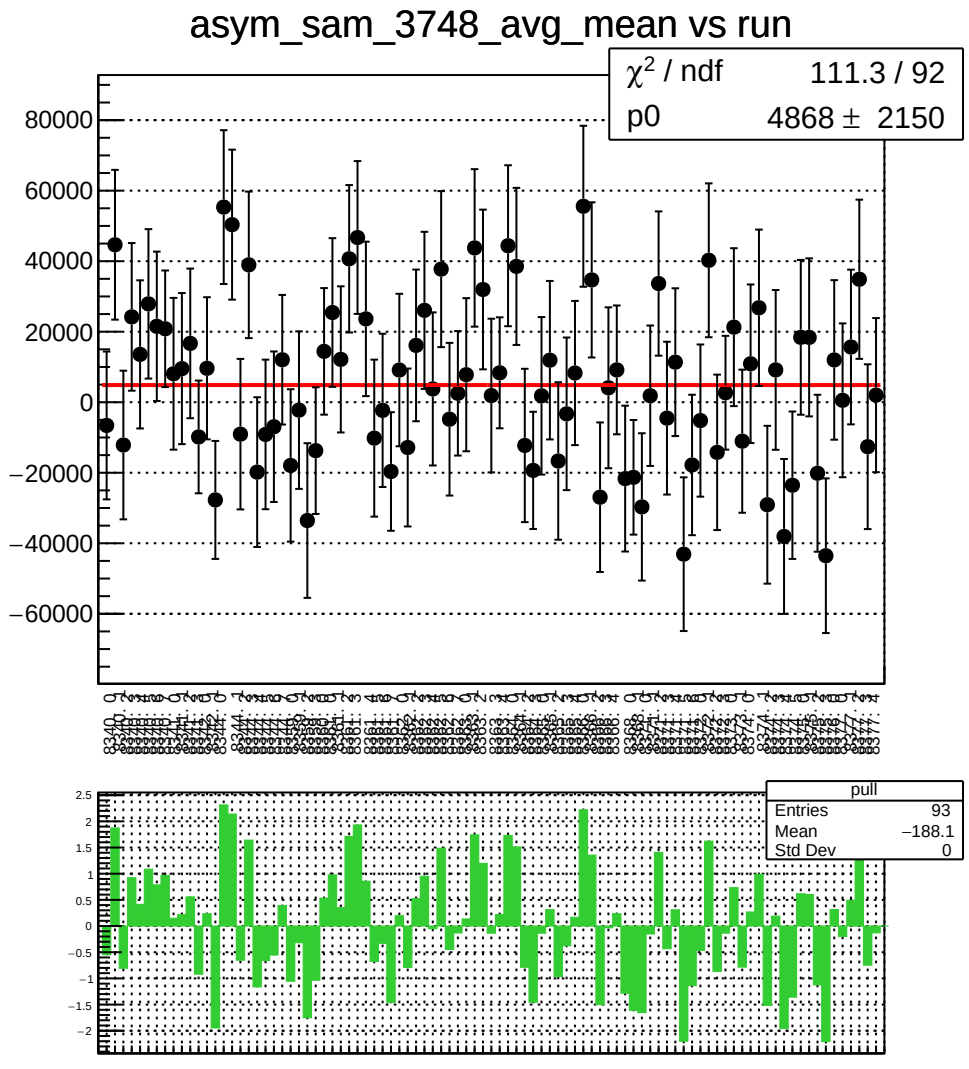

pull1D
Entries 93
Mean −0.00454
Std Dev 1.026

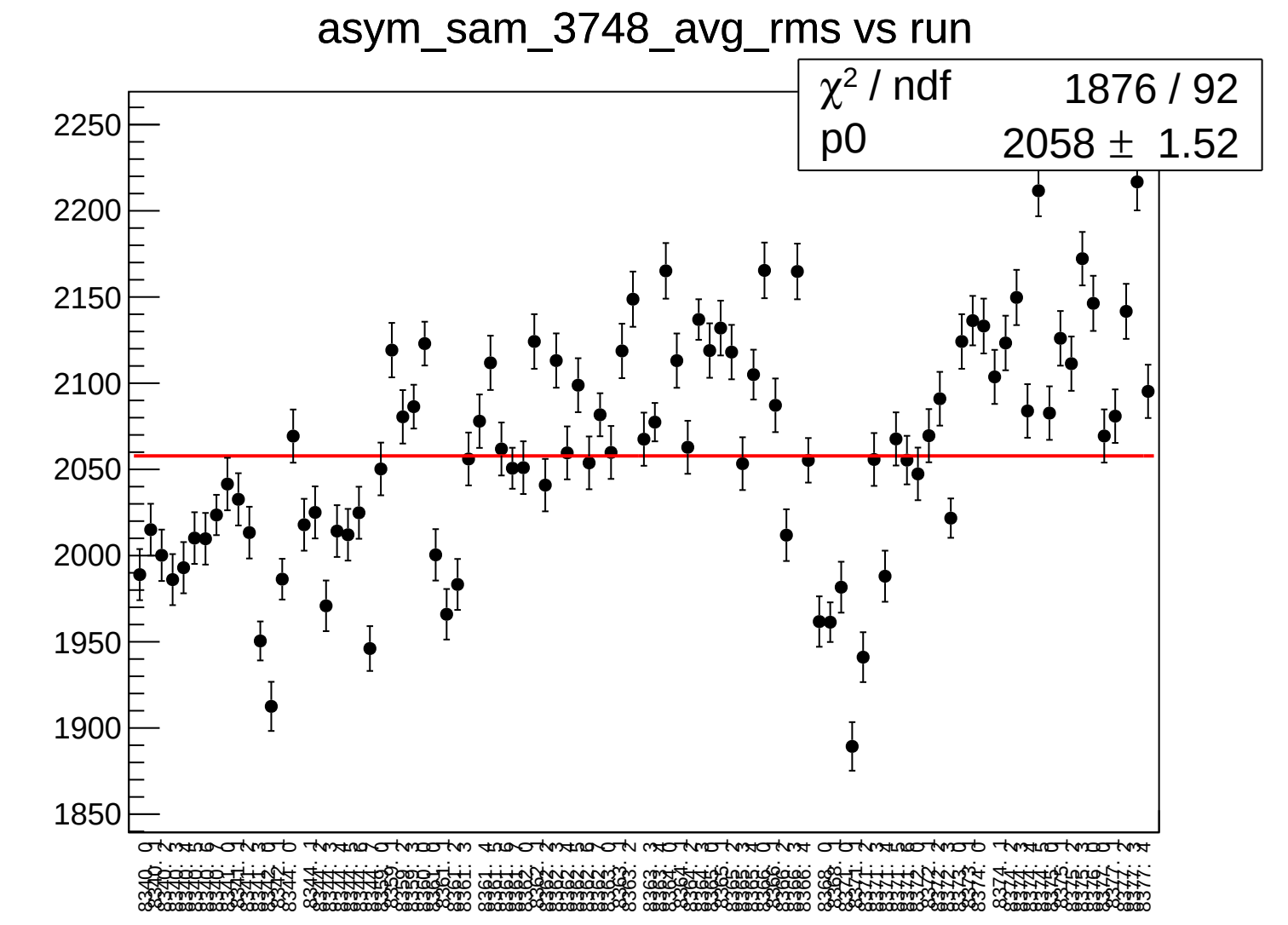

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.518e+04 / 92
p0 155.7 ± 0.1155
300
280
260
240
220
200
180
160
140
120

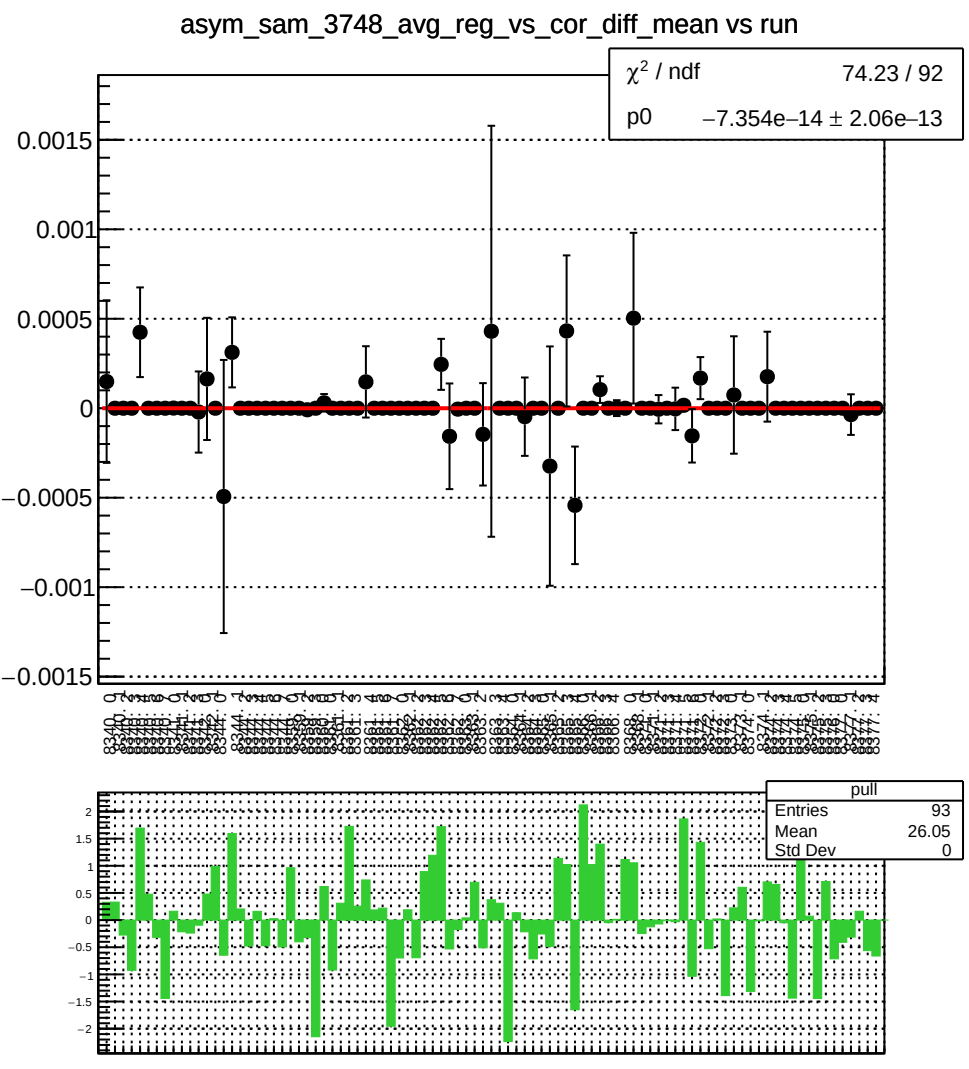

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 113 / 92
p0 −5068 ± 2167
pull
Entries 93
Mean −204.6
Std Dev 0

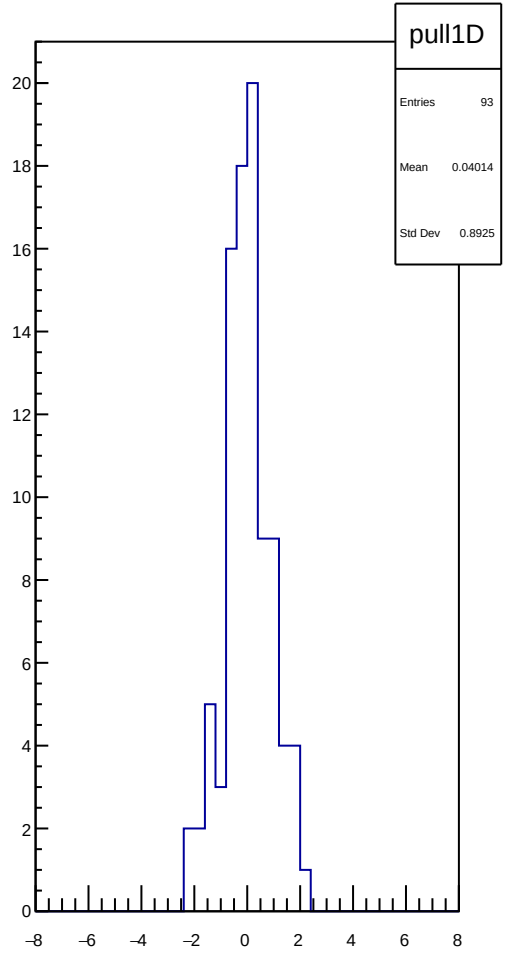

pull1D
Entries 93
Mean −0.02279
Std Dev 1.102

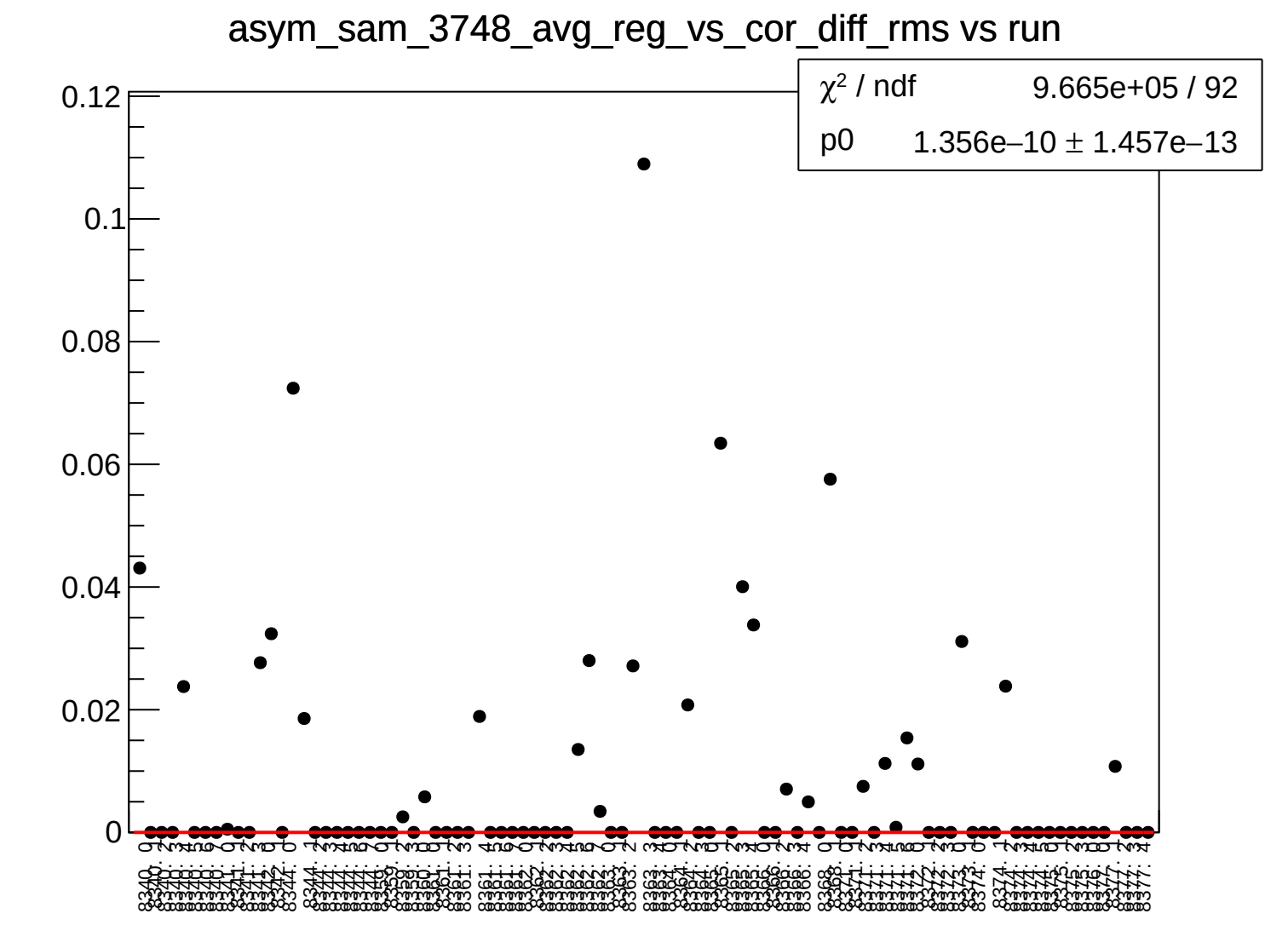

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1922 / 92
p0 2074 ± 1.533
2250
2200
2150
2100
2050
2000
1950
1900

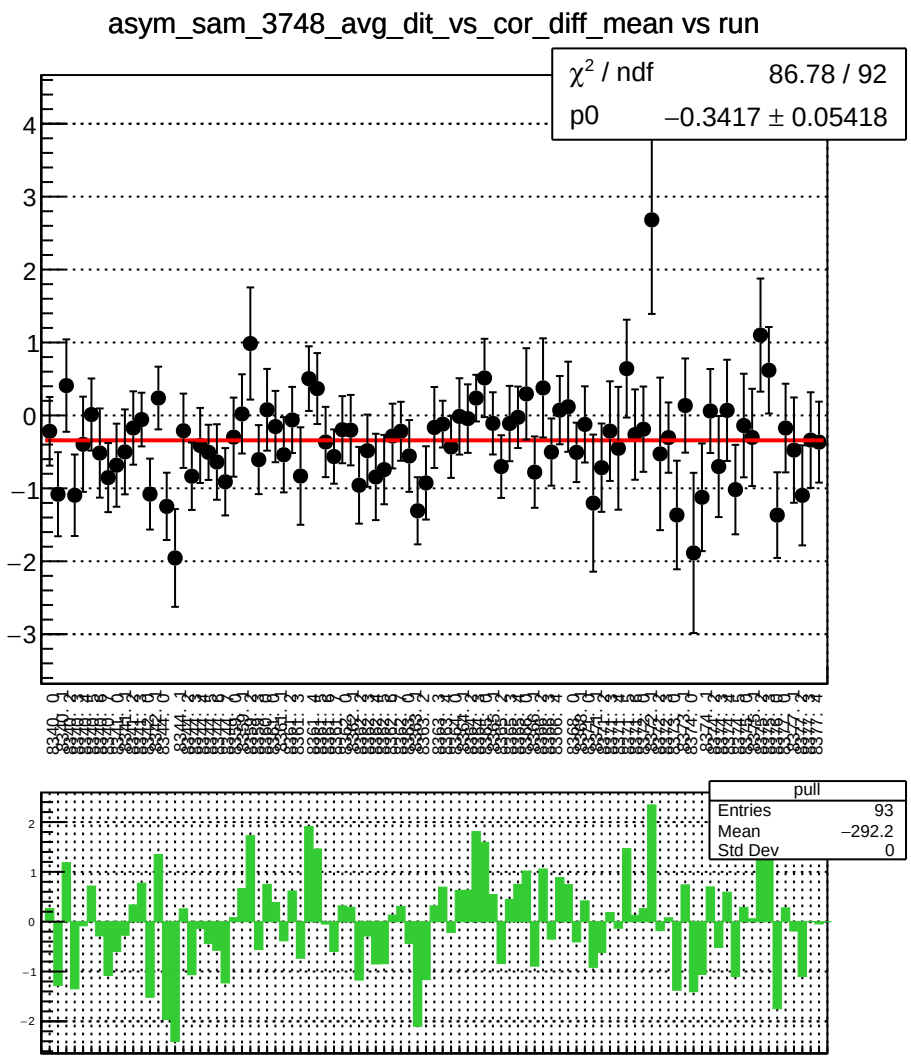

asym_sam_3748_avg_mean vs run
χ² / ndf 111.3 / 92
p0 4868 ± 2150
pull
Entries 93
Mean −188.1
Std Dev 0
pull1D
Entries 93
Mean 0.02453
Std Dev 1.094

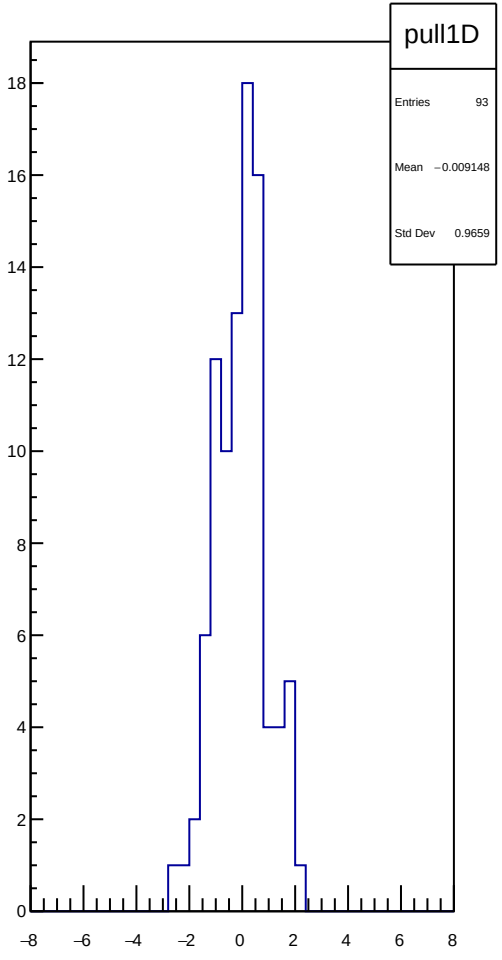

asym_sam_3748_avg_rms vs run
χ² / ndf 1876 / 92
p0 2058 ± 1.52
2250
2200
2150
2100
2050
2000
1950
1900
1850

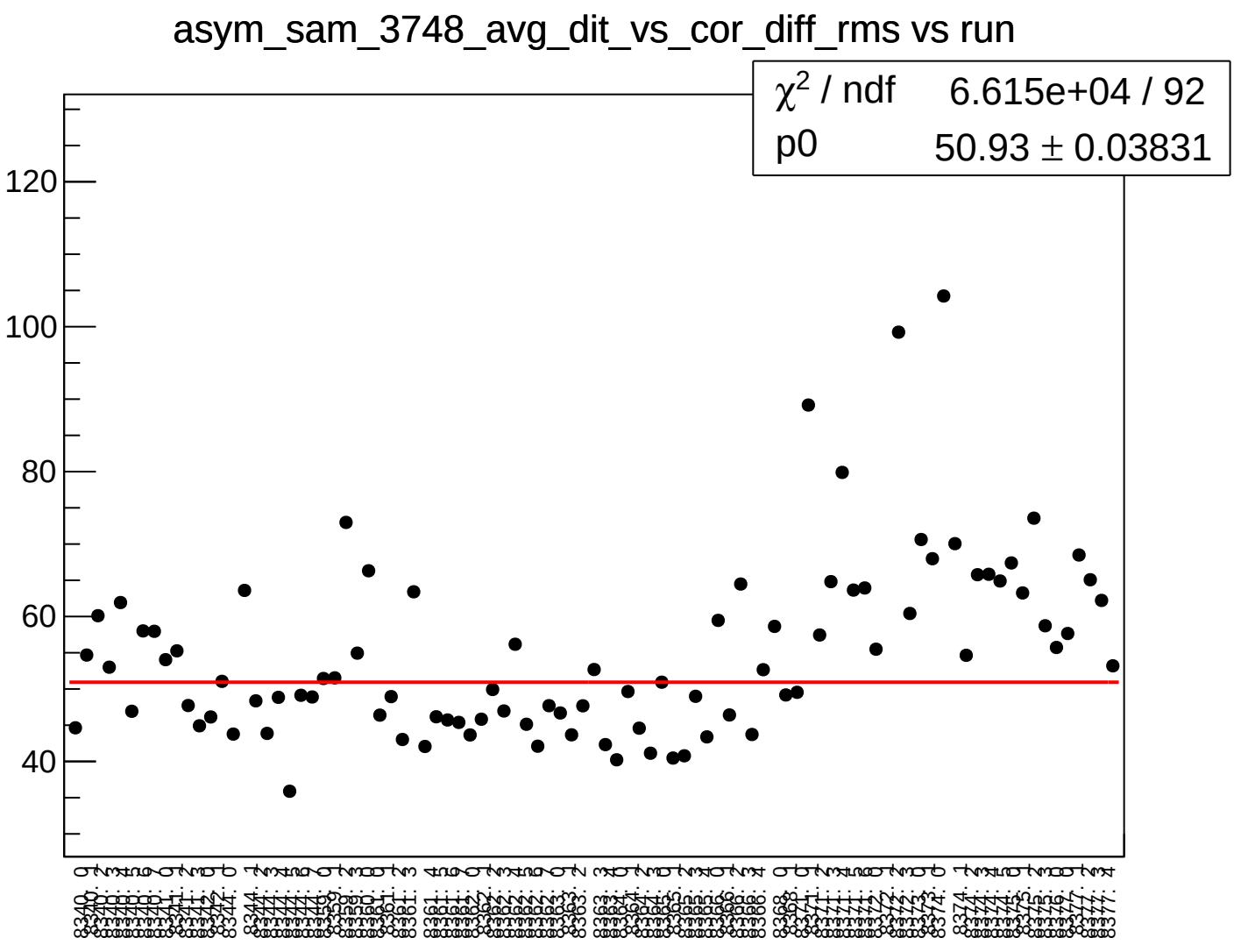

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.23 / 92
p0 −7.354e−14 ± 2.06e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 93
Mean 26.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

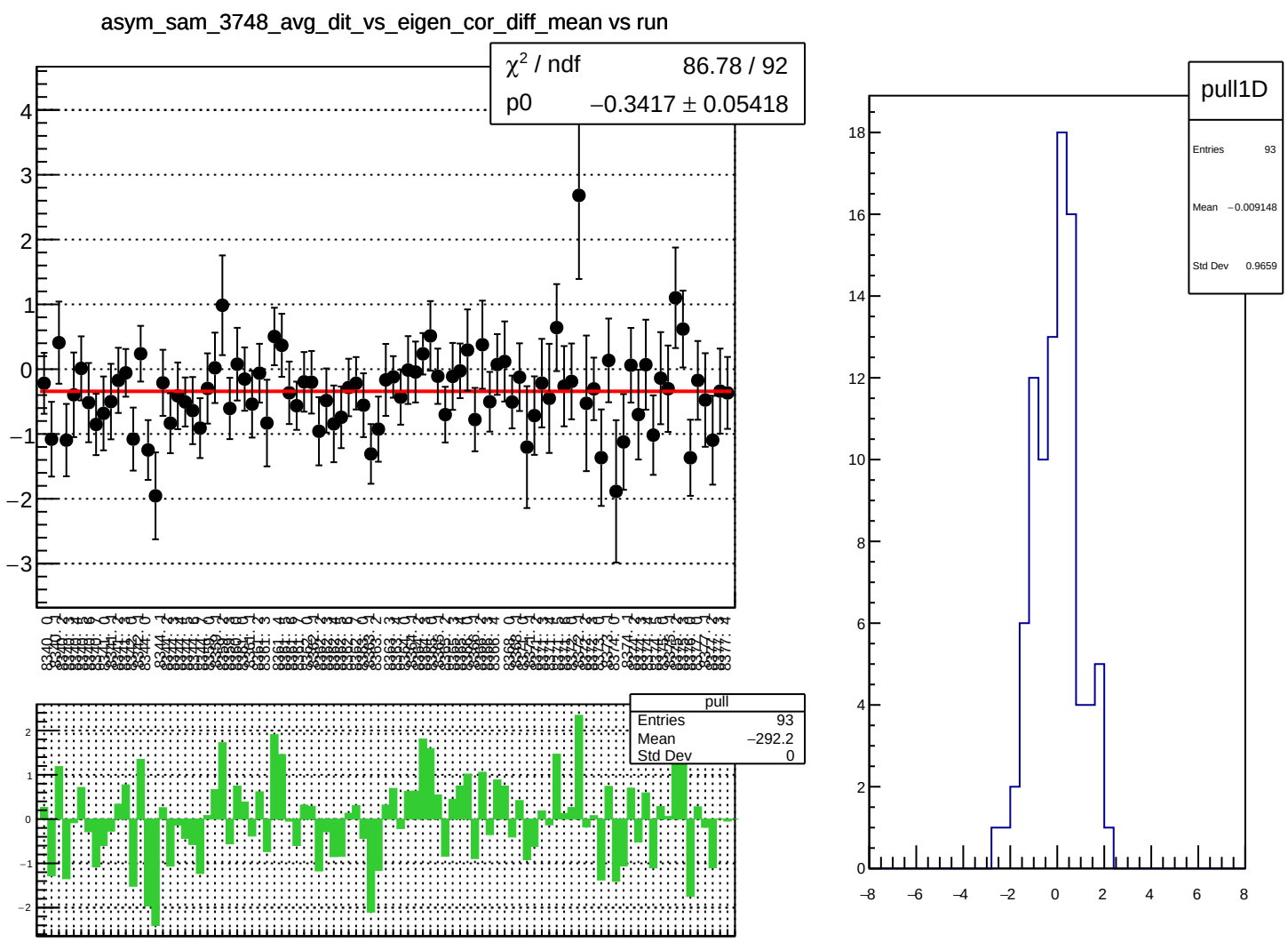

pull1D
Entries 93
Mean 0.04014
Std Dev 0.8925
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

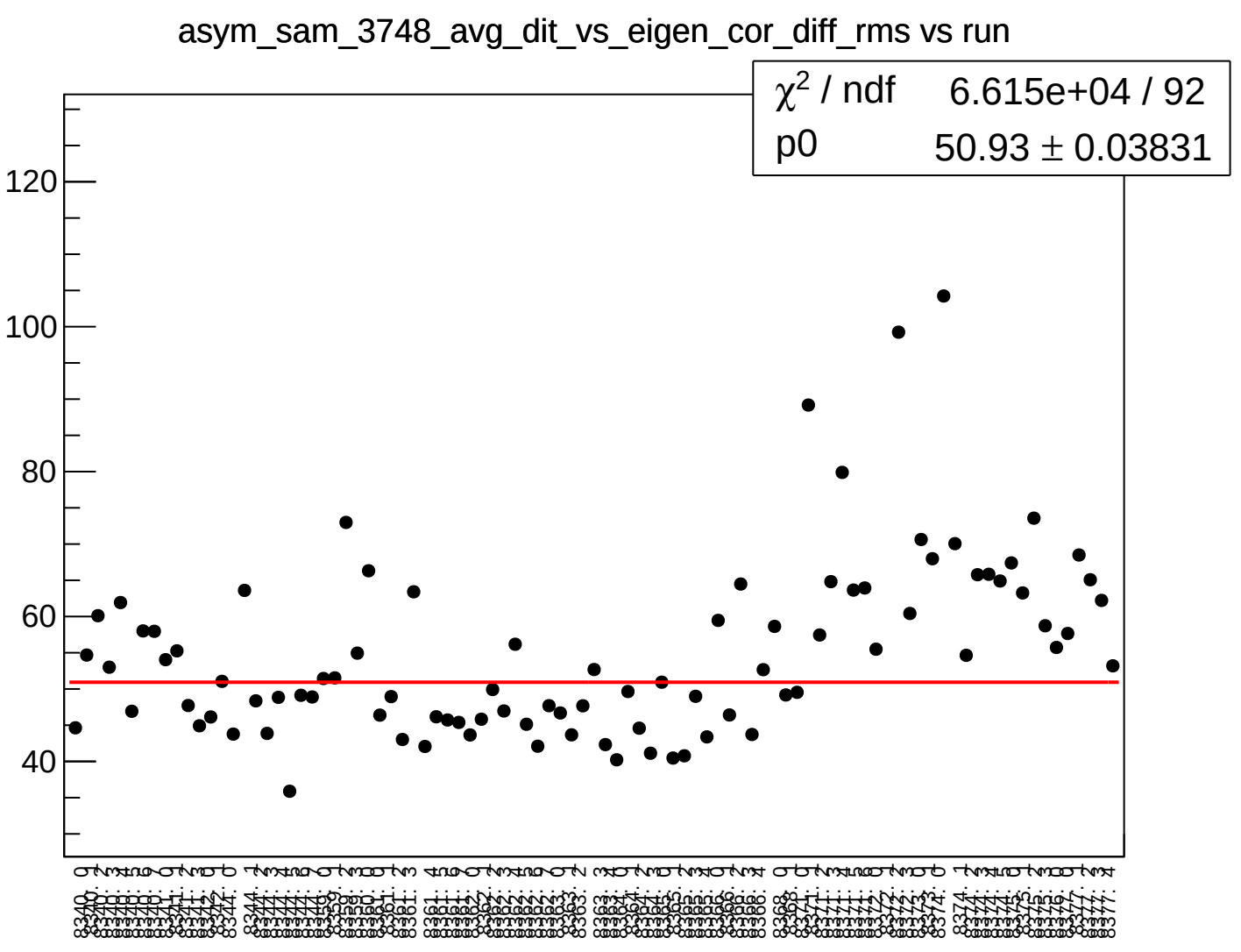

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.665e+05 / 92
p0 1.356e−10 ± 1.457e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

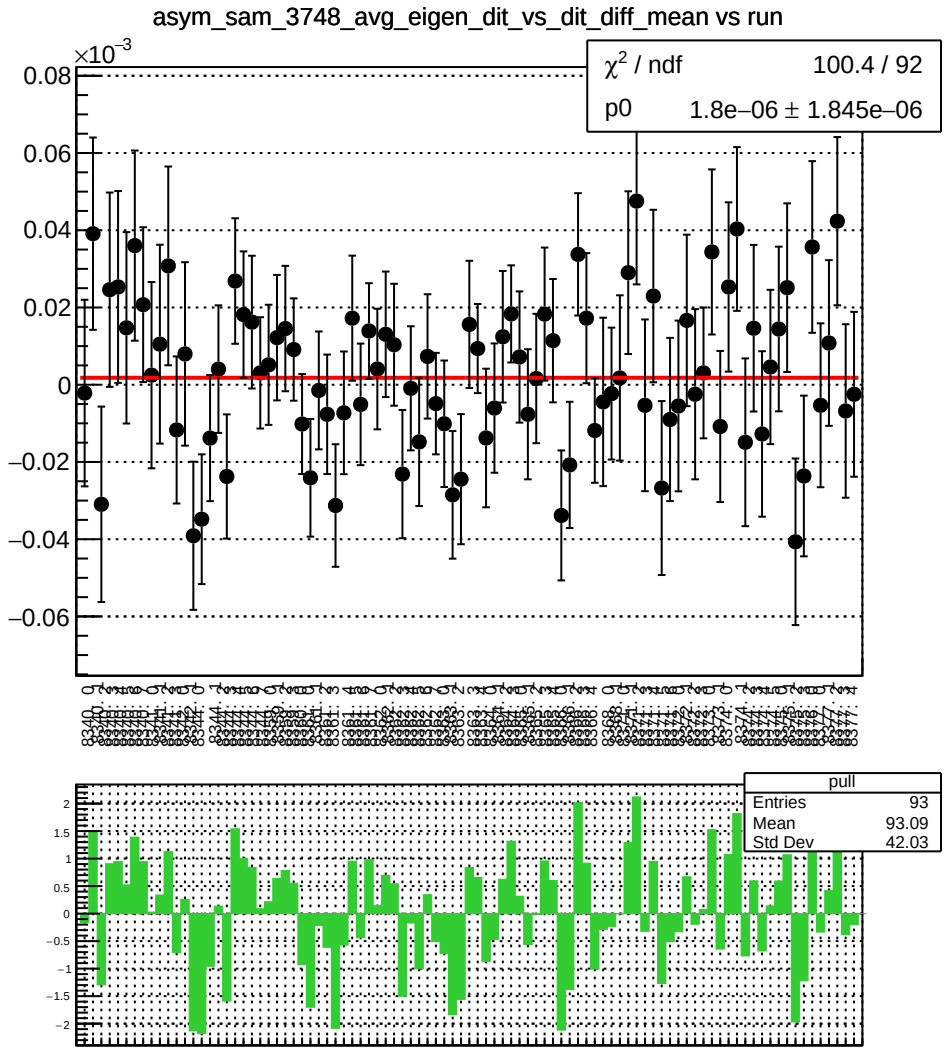

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.78 / 92
p0 −0.3417 ± 0.05418
pull
Entries 93
Mean −292.2
Std Dev 0

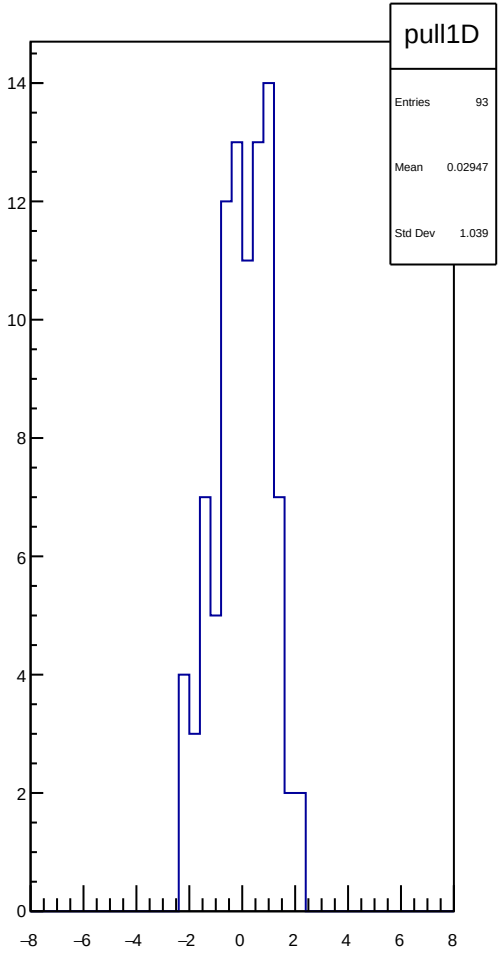

pull1D
Entries 93
Mean −0.009148
Std Dev 0.9659

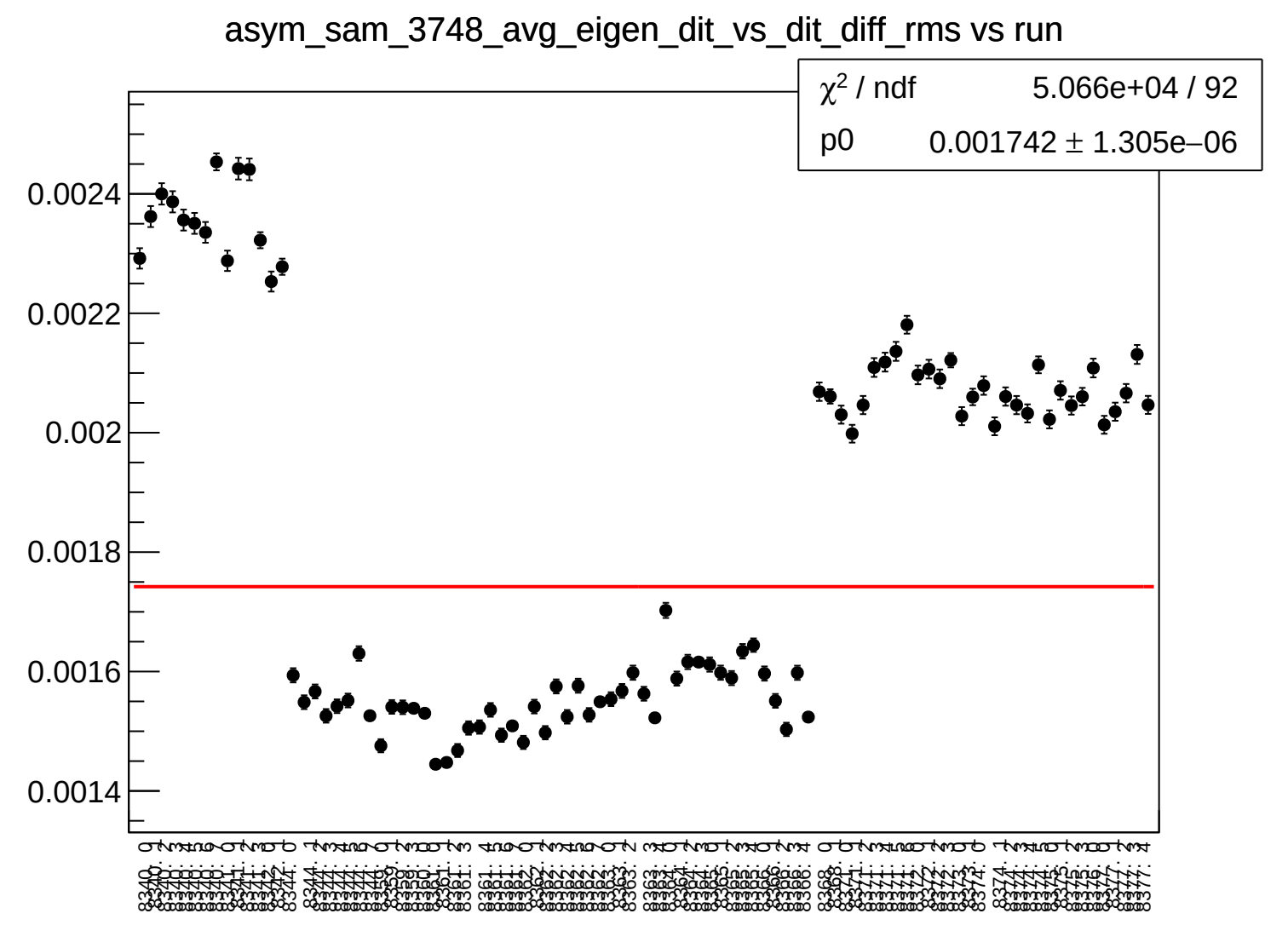

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.615e+04 / 92
p0 50.93 ± 0.03831
120
100
80
60
40

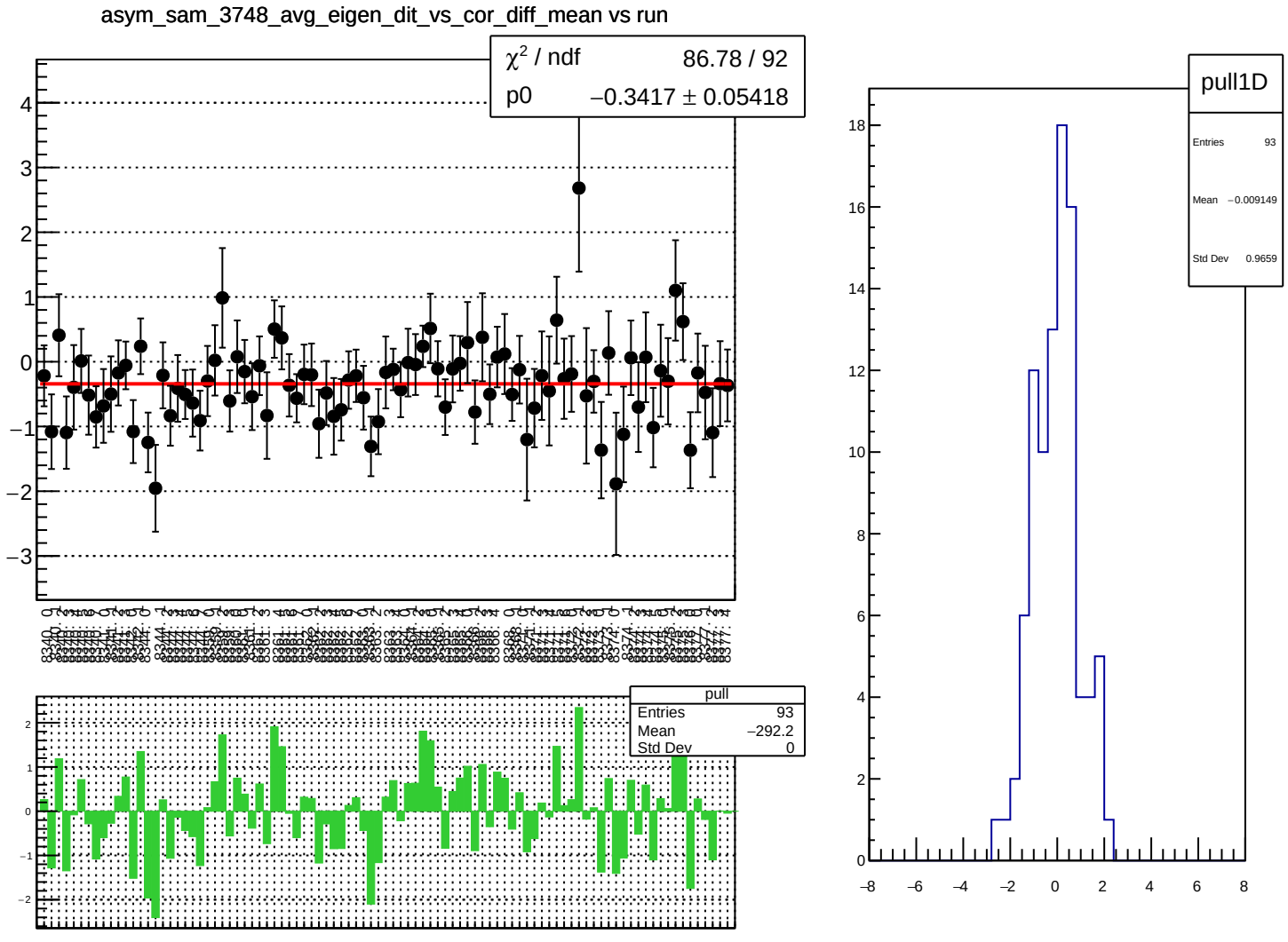

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.78 / 92
p0 −0.3417 ± 0.05418
pull
Entries 93
Mean −292.2
Std Dev 0
pull1D
Entries 93
Mean −0.009148
Std Dev 0.9659

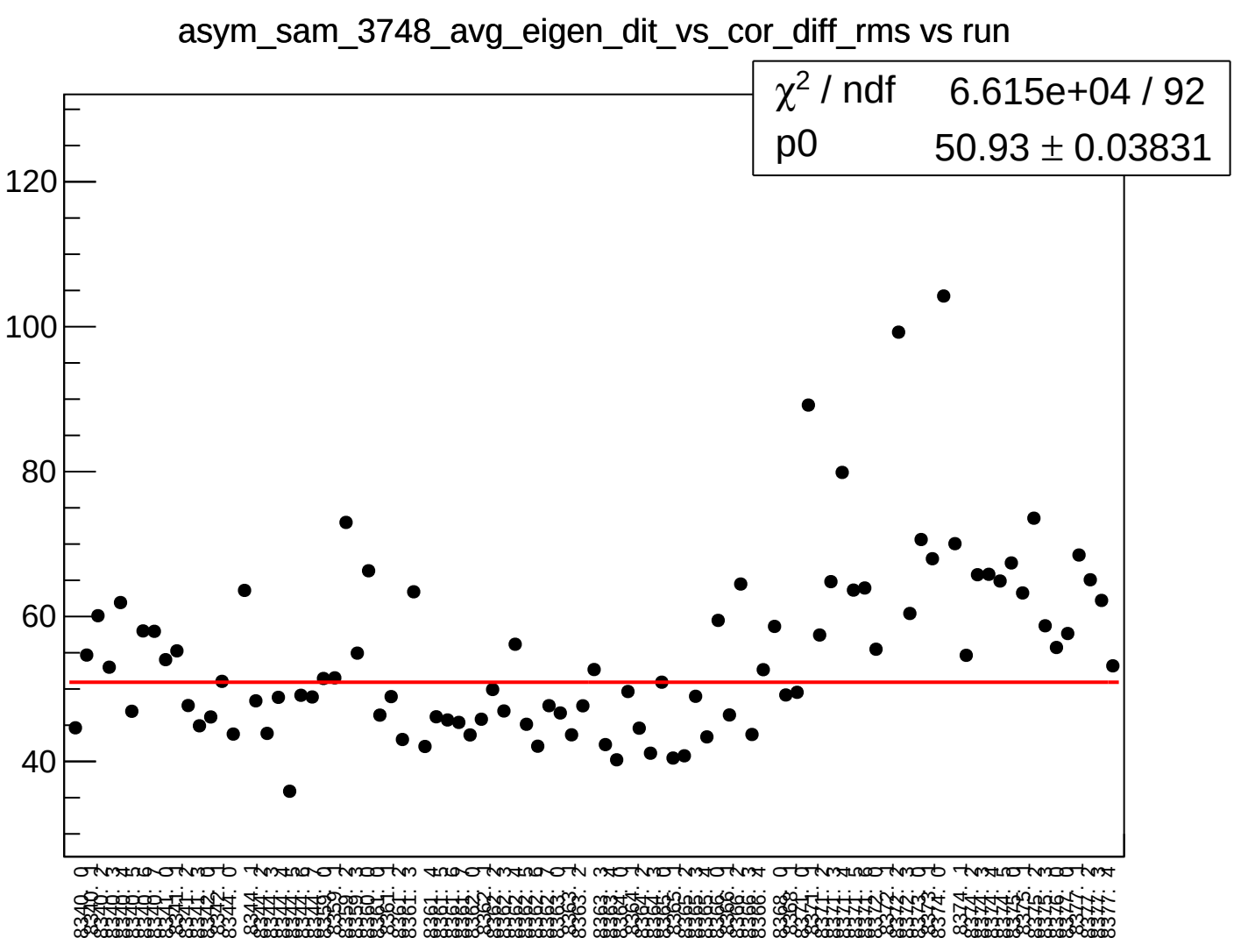

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.615e+04 / 92
p0 50.93 ± 0.03831
120
100
80
60
40

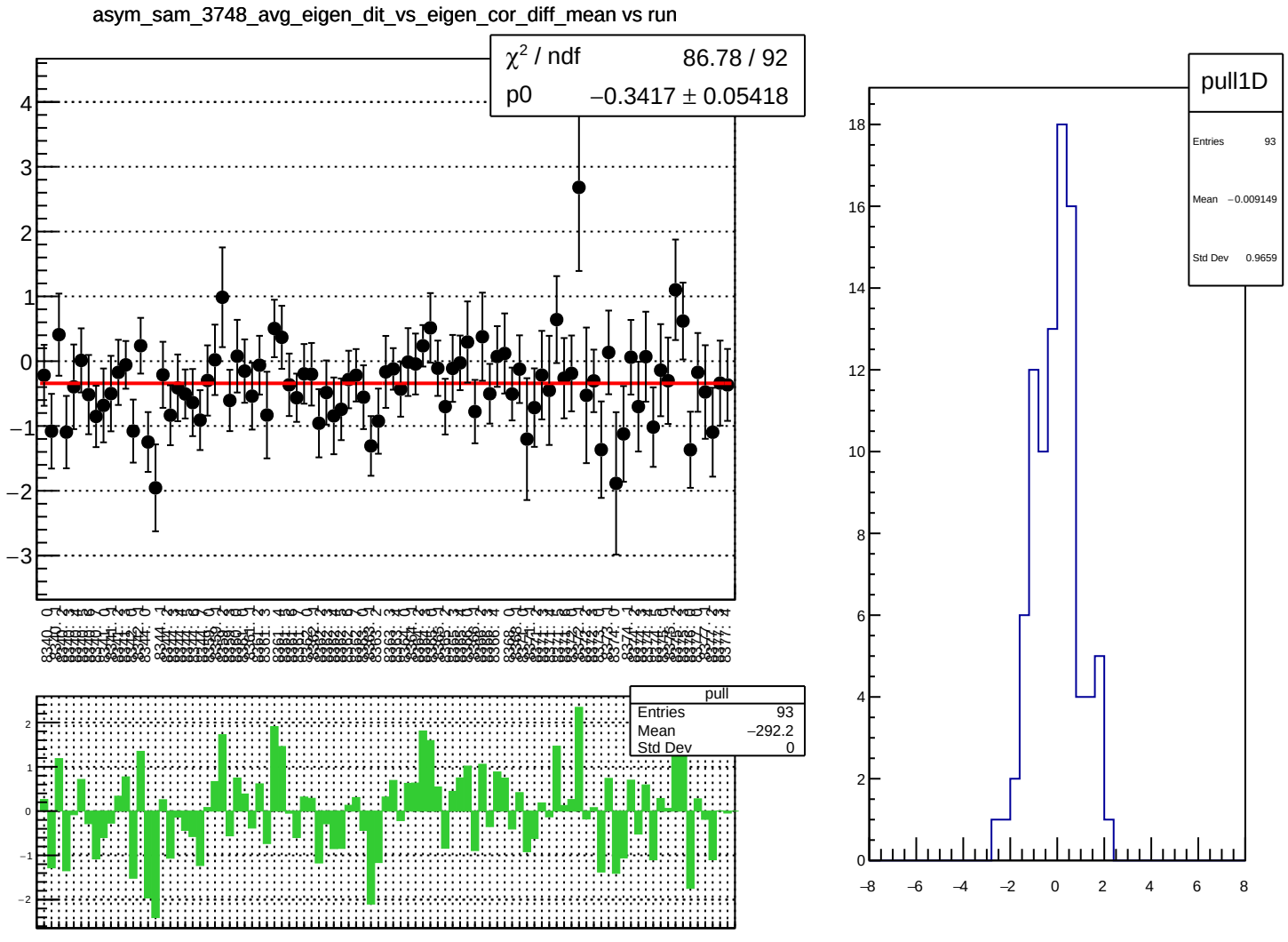

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 92
p0 1.8e−06 ± 1.845e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean 93.09
Std Dev 42.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

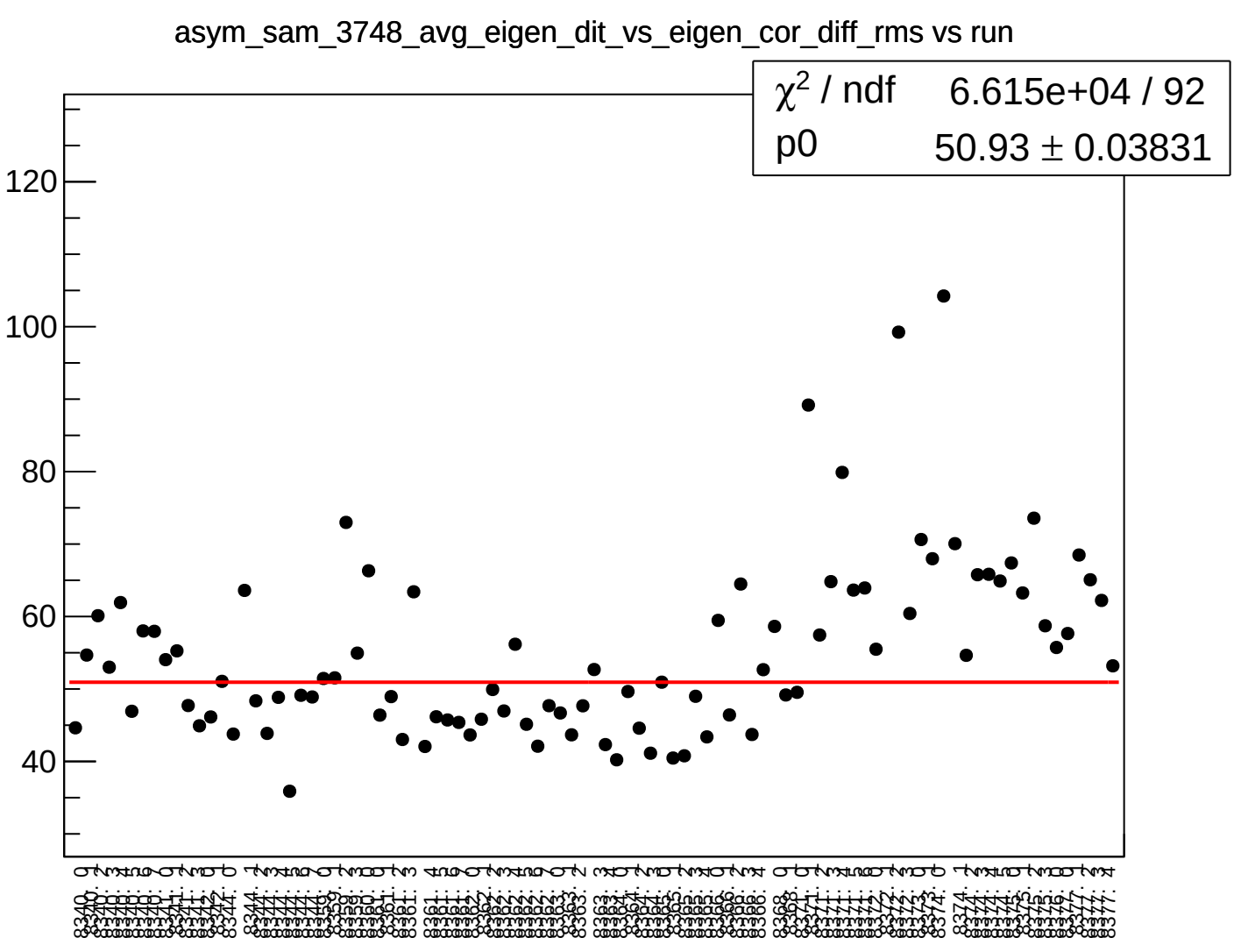

pull1D
Entries 93
Mean 0.02947
Std Dev 1.039
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

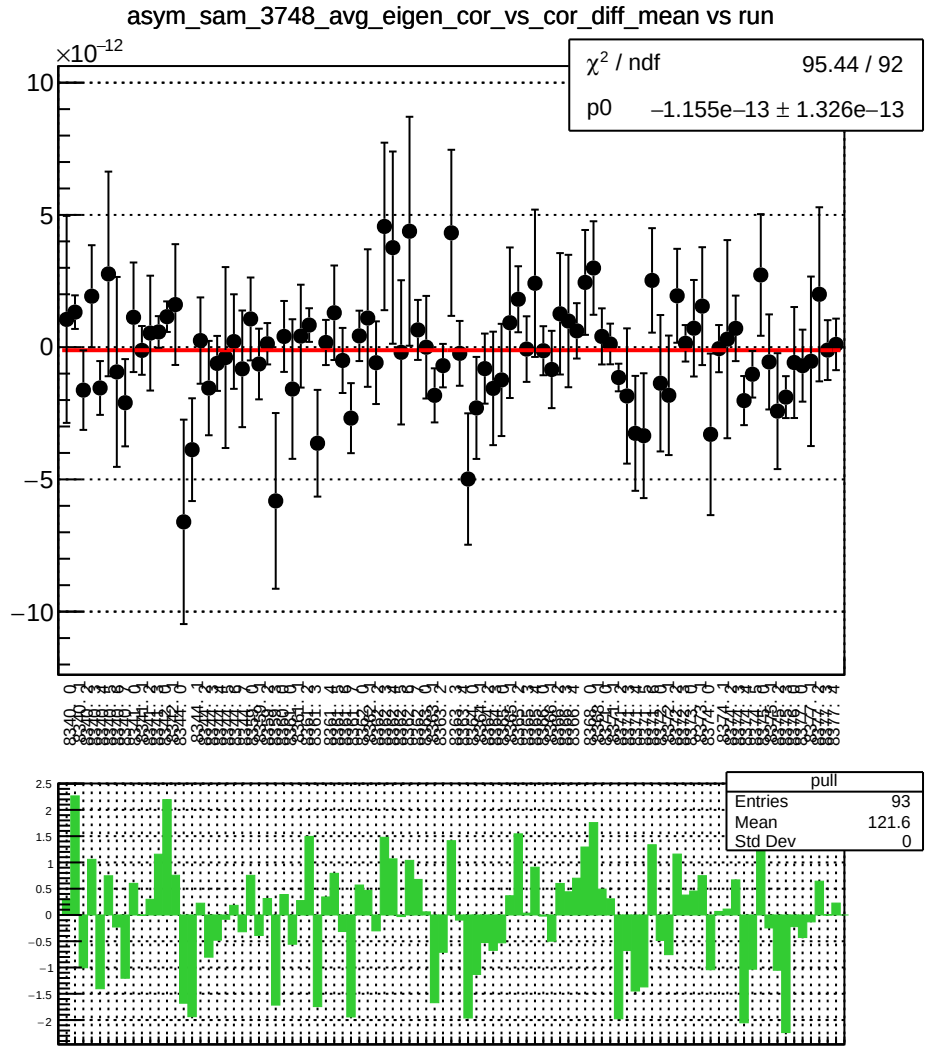

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.066e+04 / 92
p0 0.001742 ± 1.305e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

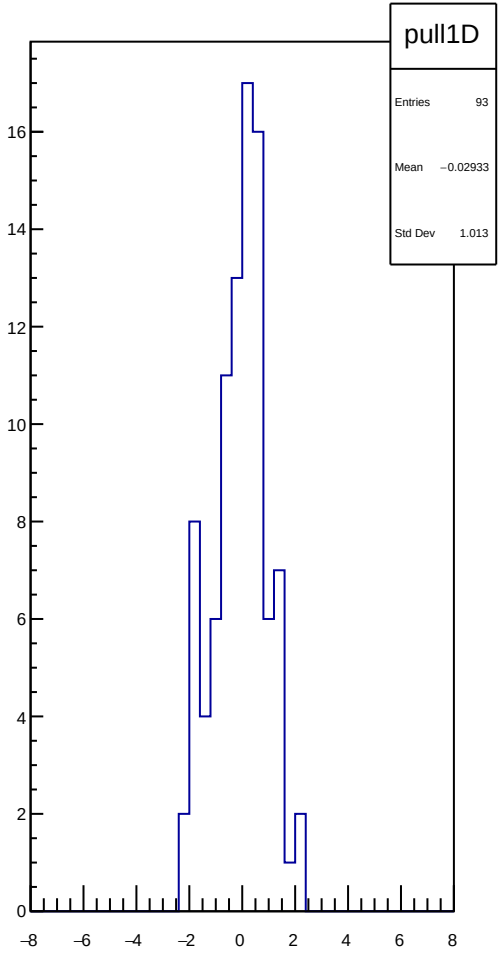

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.78 / 92
p0 −0.3417 ± 0.05418
pull
Entries 93
Mean −292.2
Std Dev 0
pull1D
Entries 93
Mean −0.009149
Std Dev 0.9659

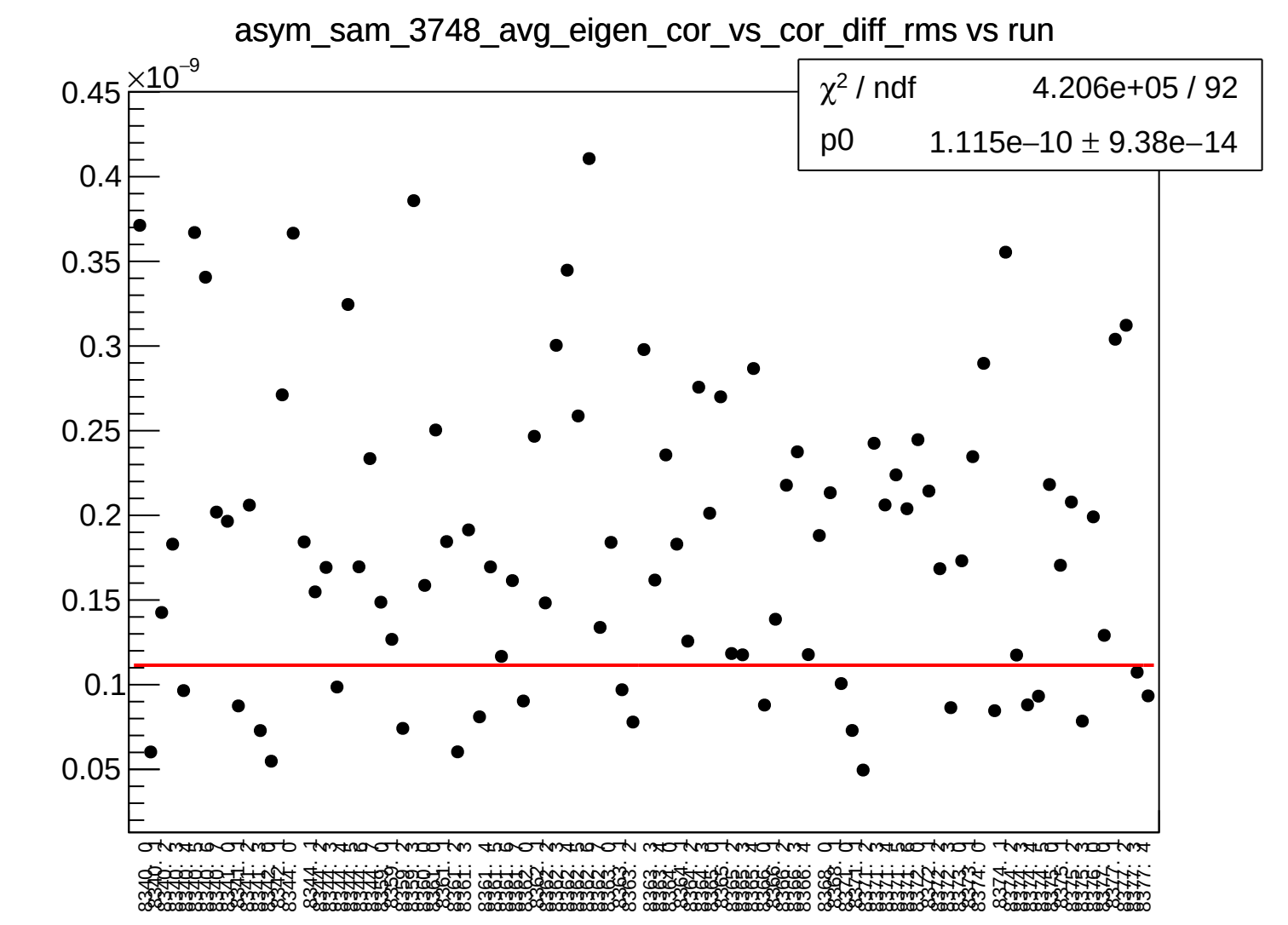

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.615e+04 / 92
p0 50.93 ± 0.03831
120
100
80
60
40

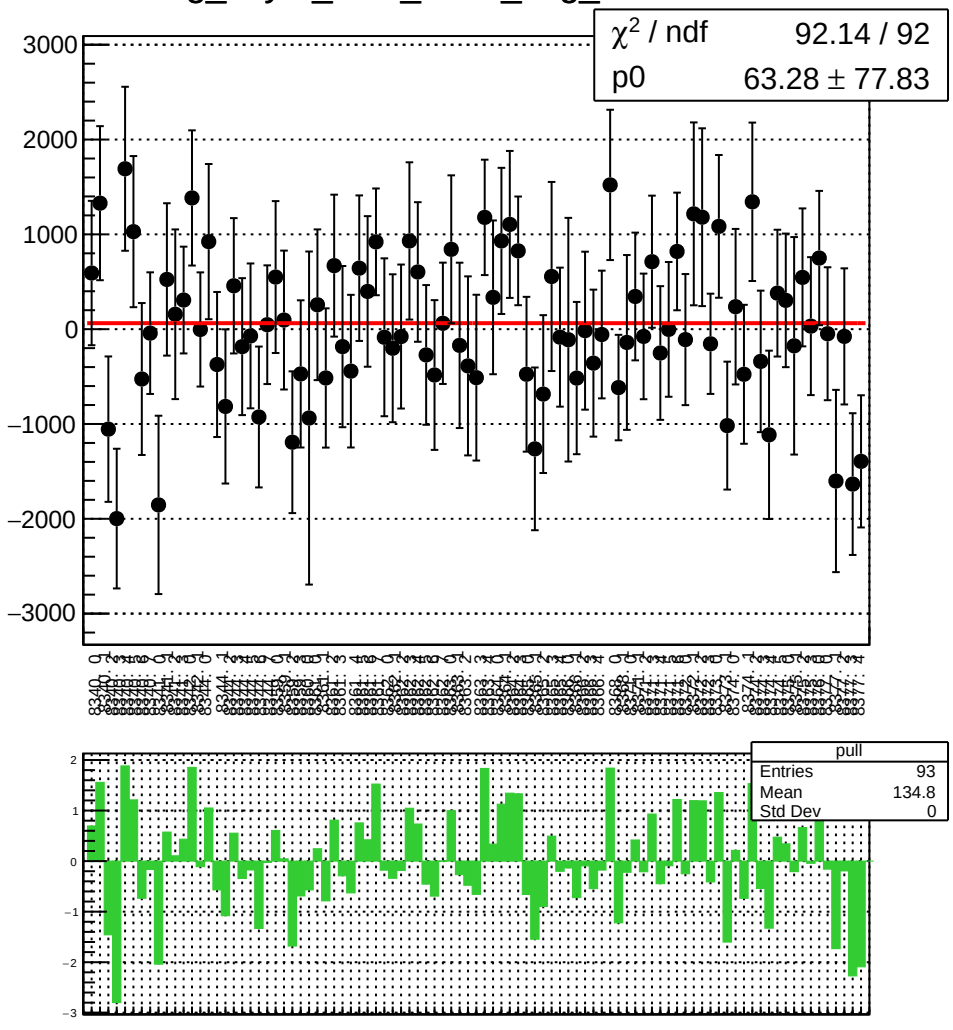

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.78 / 92
p0 −0.3417 ± 0.05418
pull
Entries 93
Mean −292.2
Std Dev 0
pull1D
Entries 93
Mean −0.009149
Std Dev 0.9659

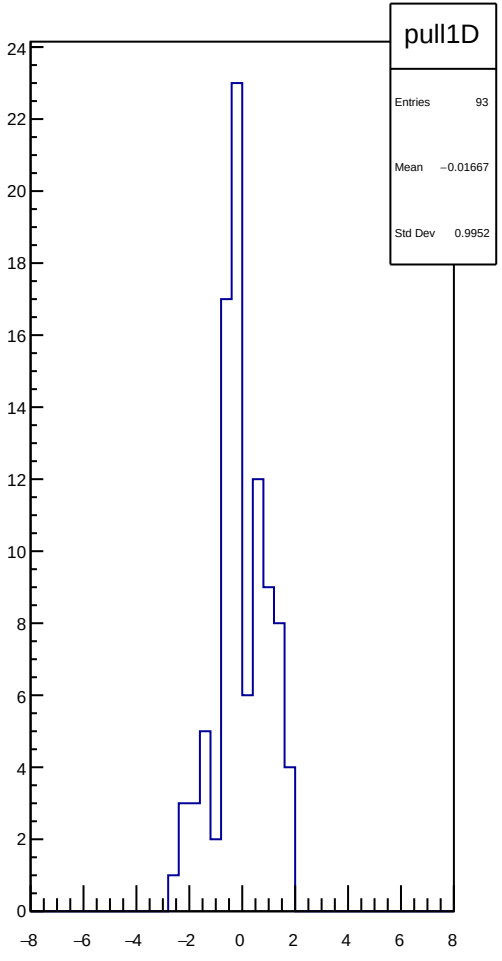

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.615e+04 / 92
p0 50.93 ± 0.03831
120
100
80
60
40

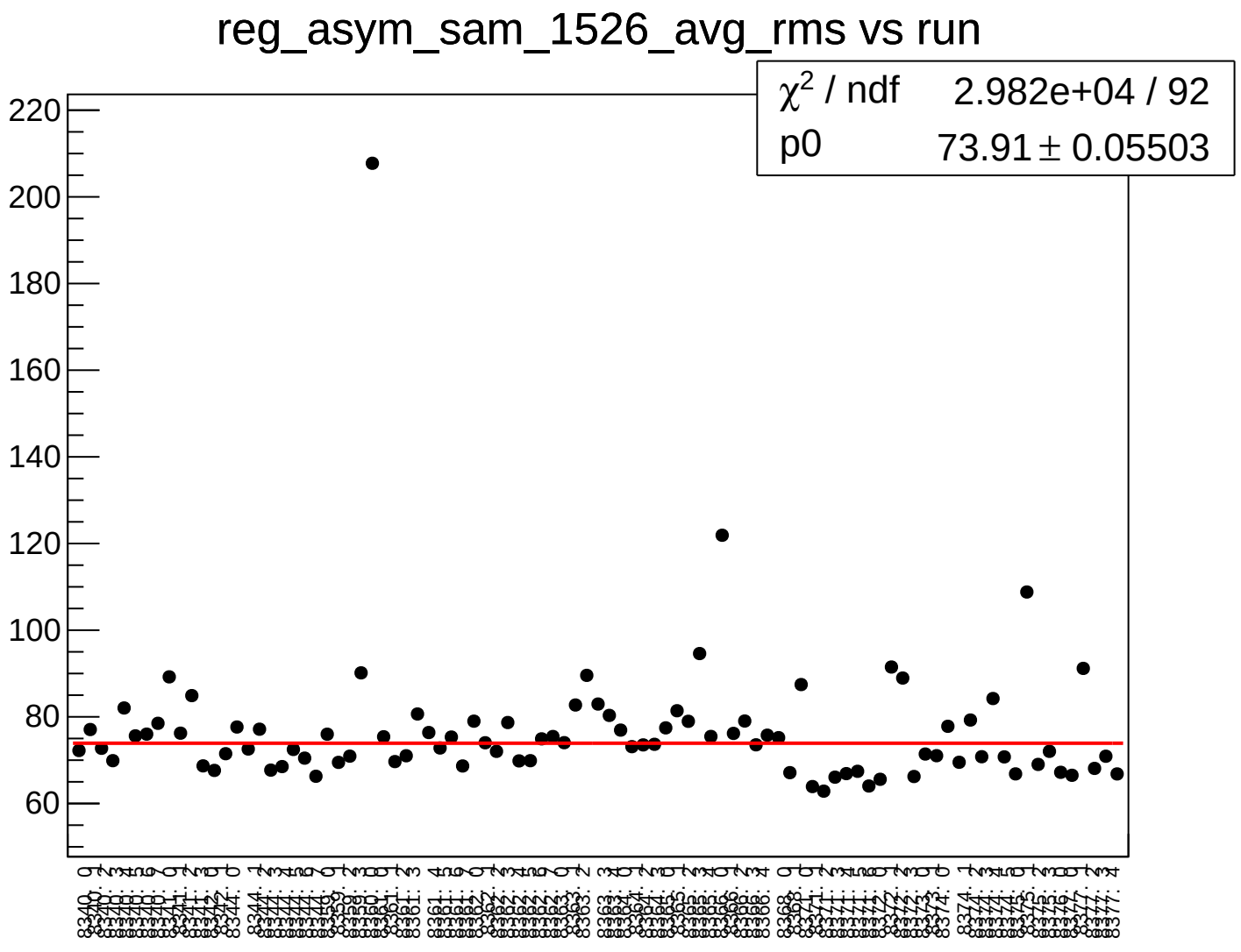

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.44 / 92
p0 −1.155e−13 ± 1.326e−13
pull
Entries 93
Mean 121.6
Std Dev 0

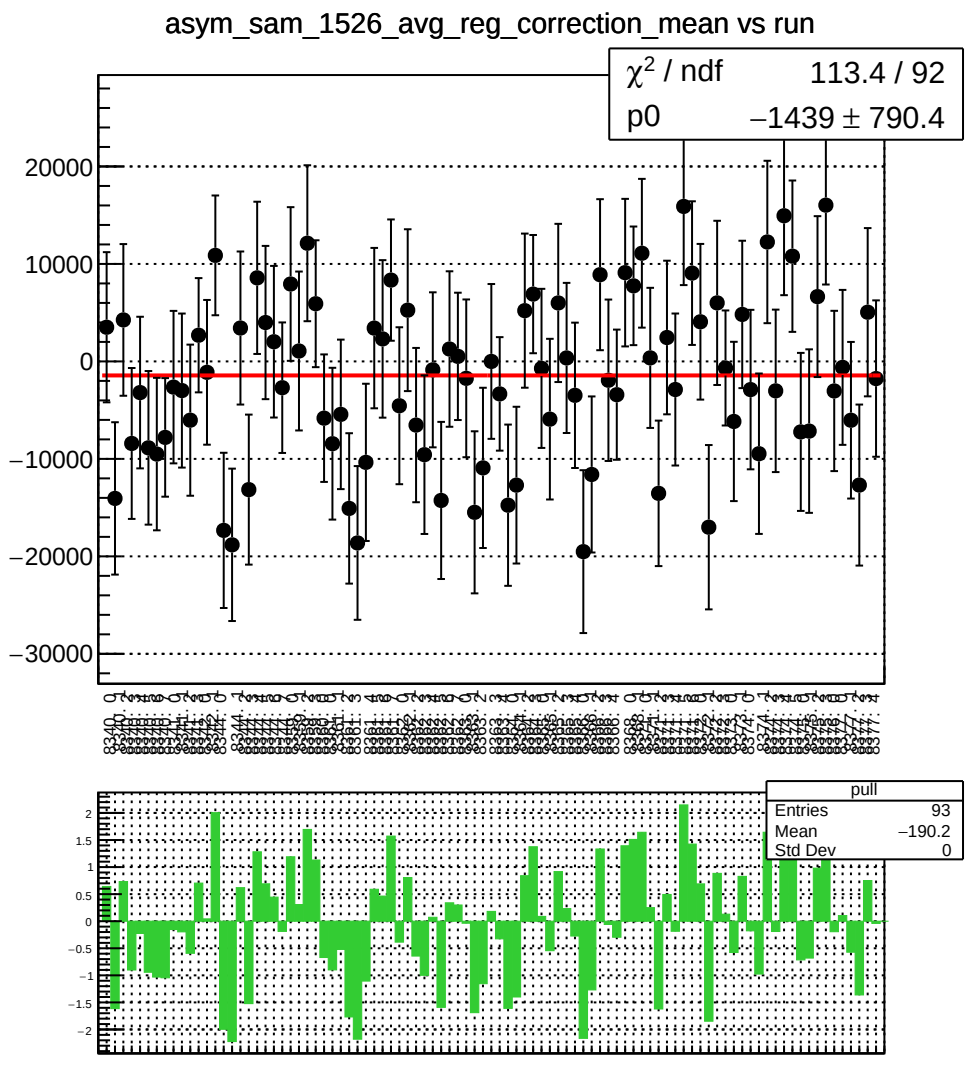

pull1D
Entries 93
Mean −0.02933
Std Dev 1.013

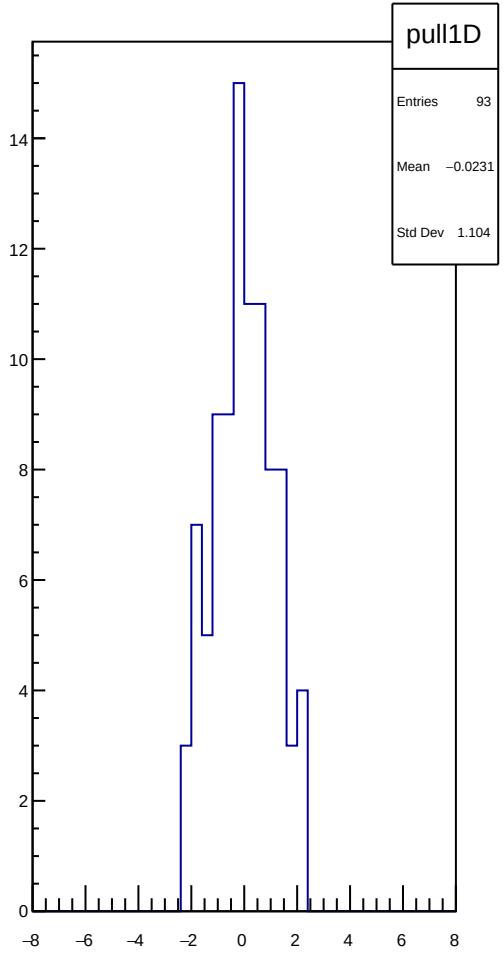

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.206e+05 / 92
p0 1.115e−10 ± 9.38e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

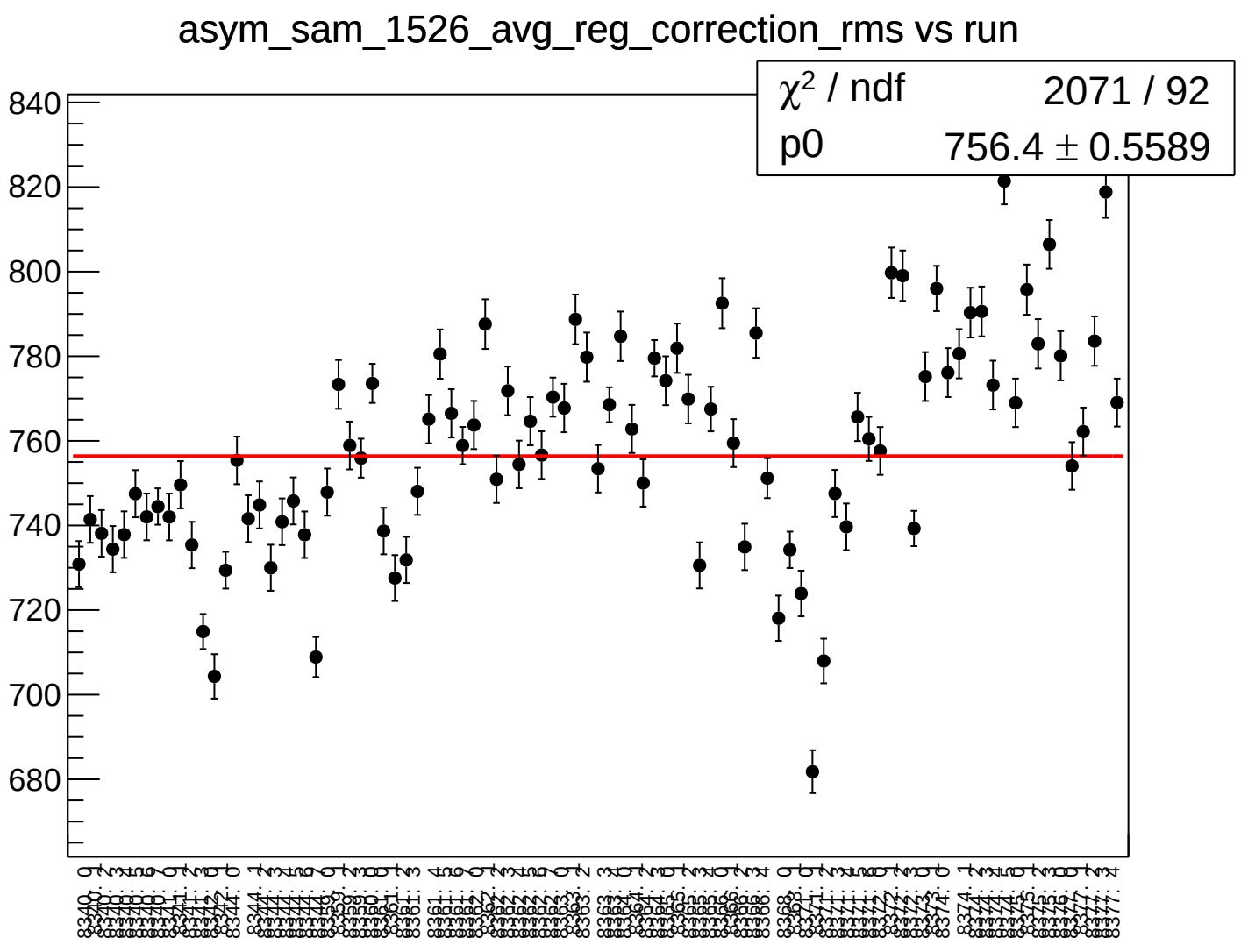

reg_asym_sam_1526_avg_mean vs run
χ^2 / ndf 92.14 / 92
p0 63.28 ± 77.83
pull
Entries 93
Mean 134.8
Std Dev 0

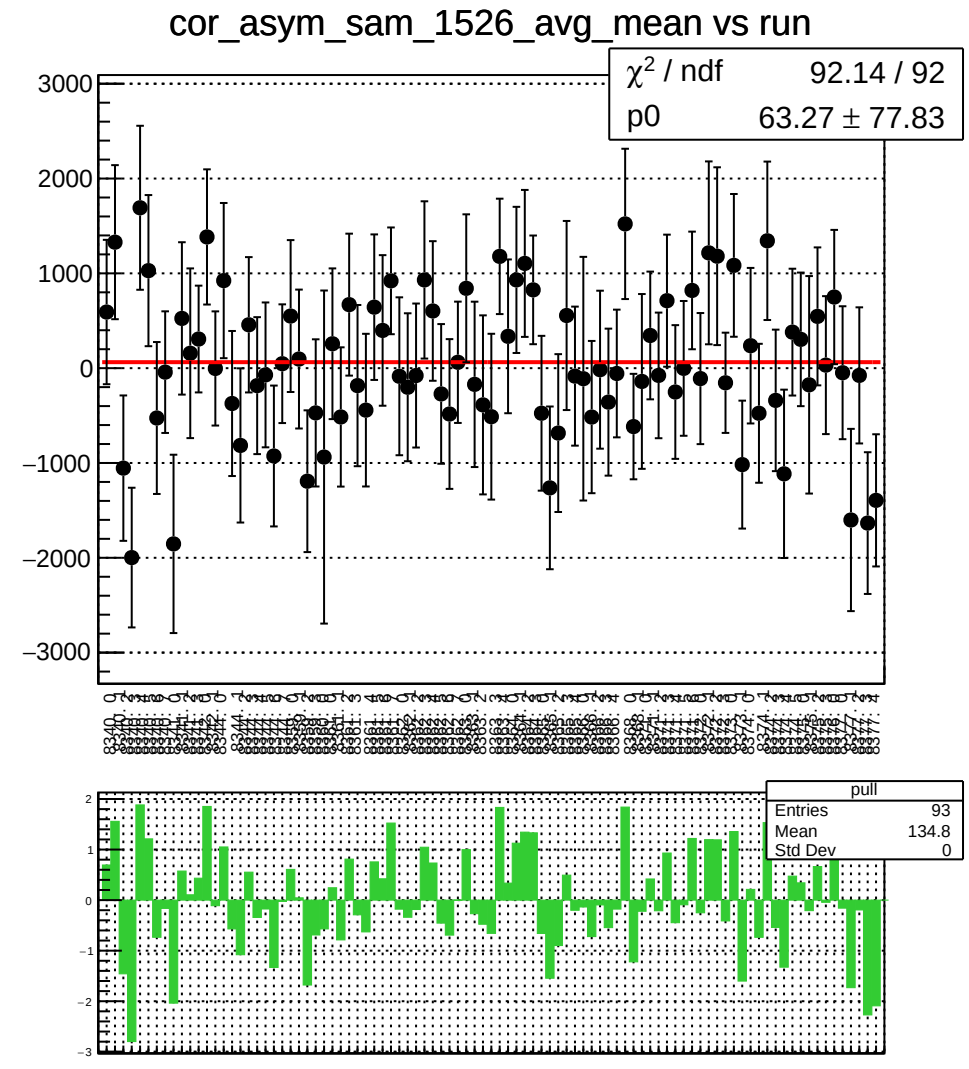

pull1D
Entries 93
Mean −0.01667
Std Dev 0.9952

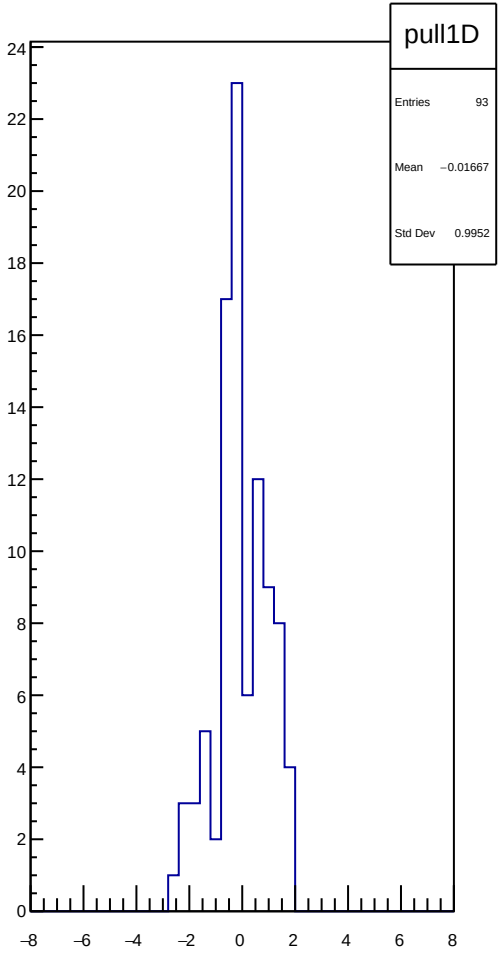

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.982e+04 / 92
p0 73.91 ± 0.05503
220
200
180
160
140
120
100
80
60

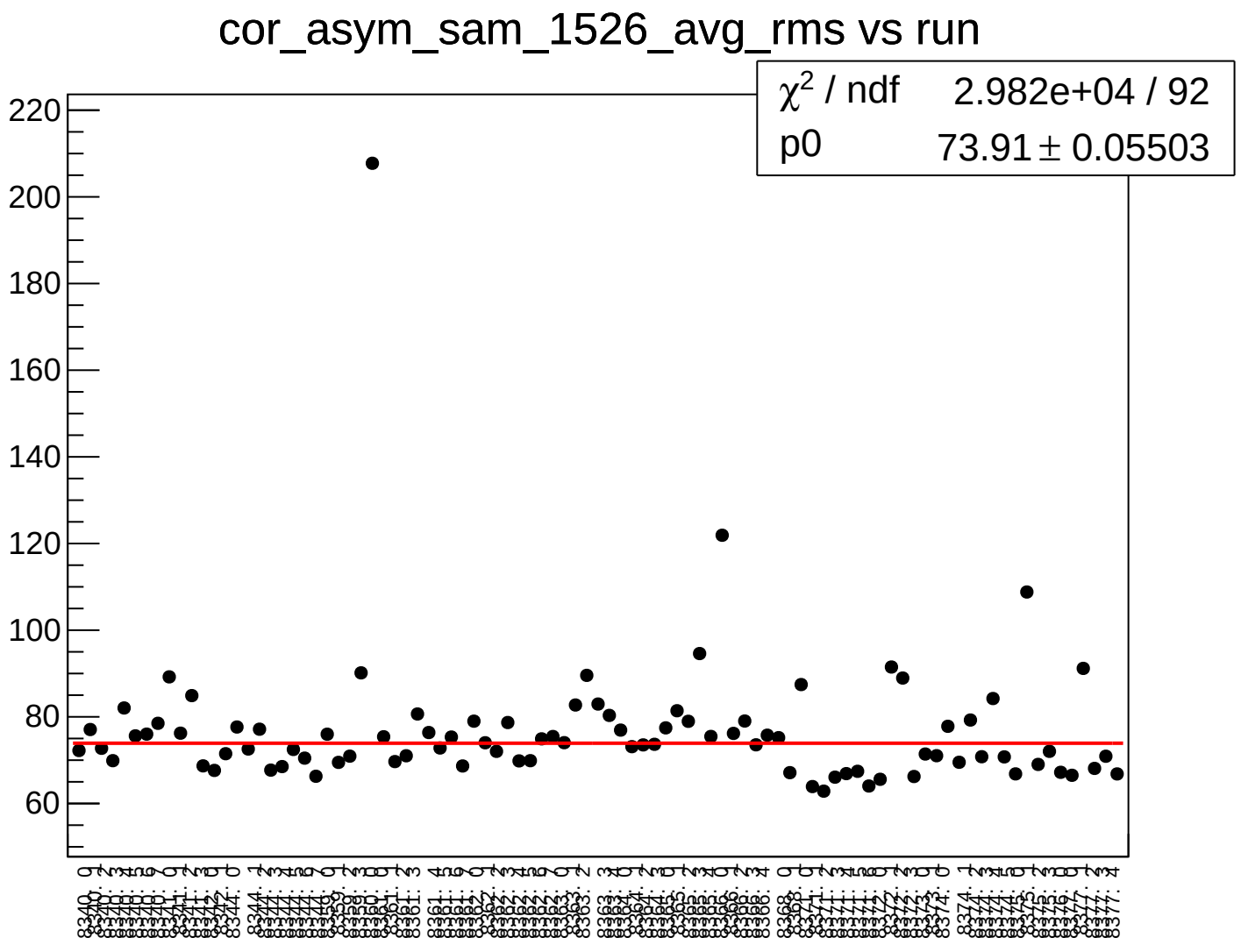

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −1439 ± 790.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −190.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

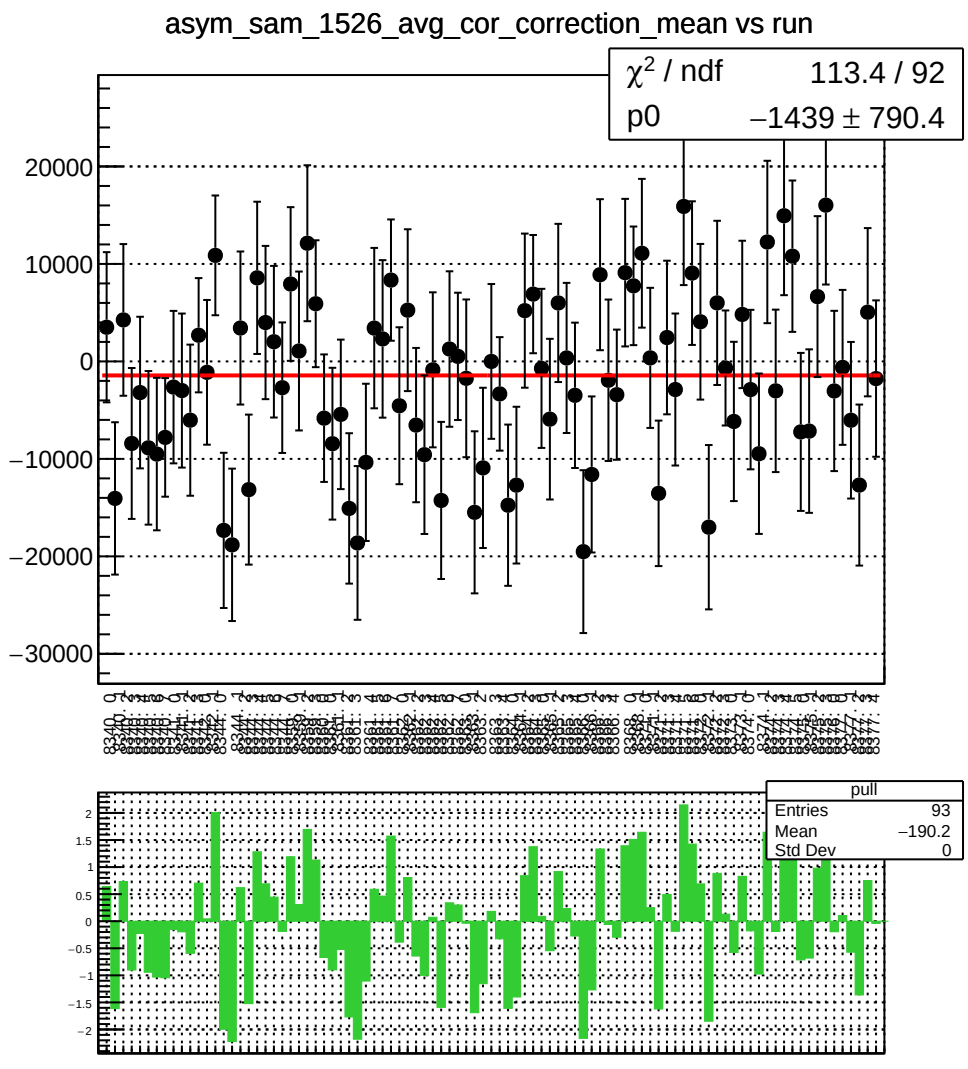

pull1D
Entries 93
Mean −0.0231
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

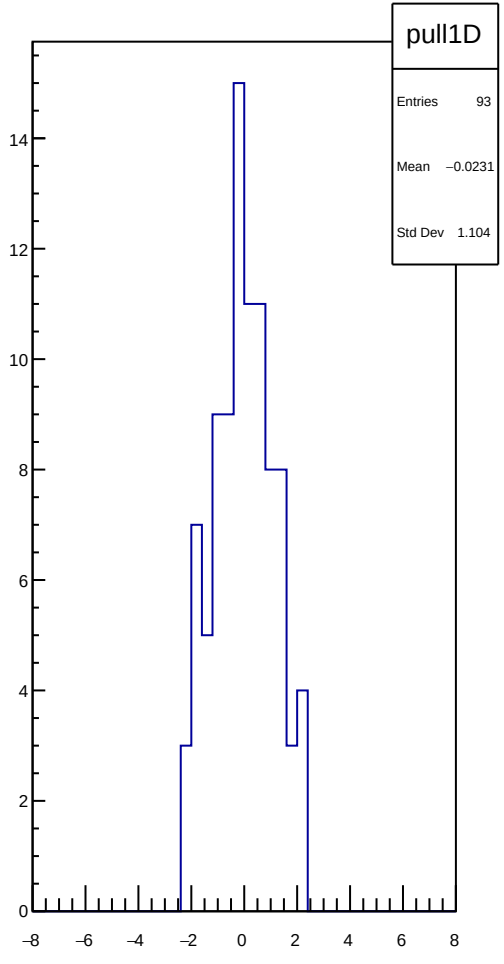

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2071 / 92
p0 756.4 ± 0.5589
840
820
800
780
760
740
720
700
680

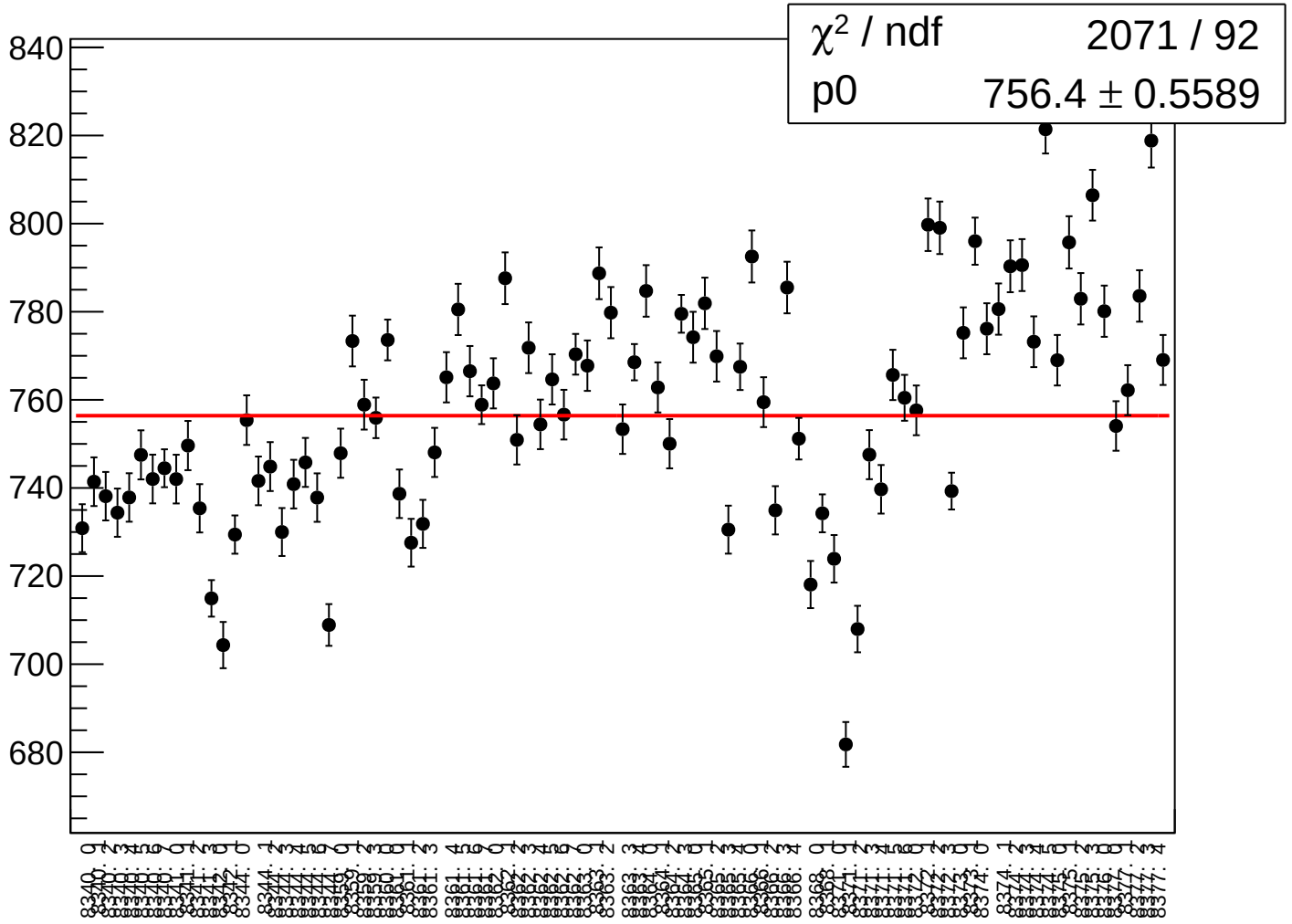

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 92.14 / 92
p0 63.27 ± 77.83
pull
Entries 93
Mean 134.8
Std Dev 0

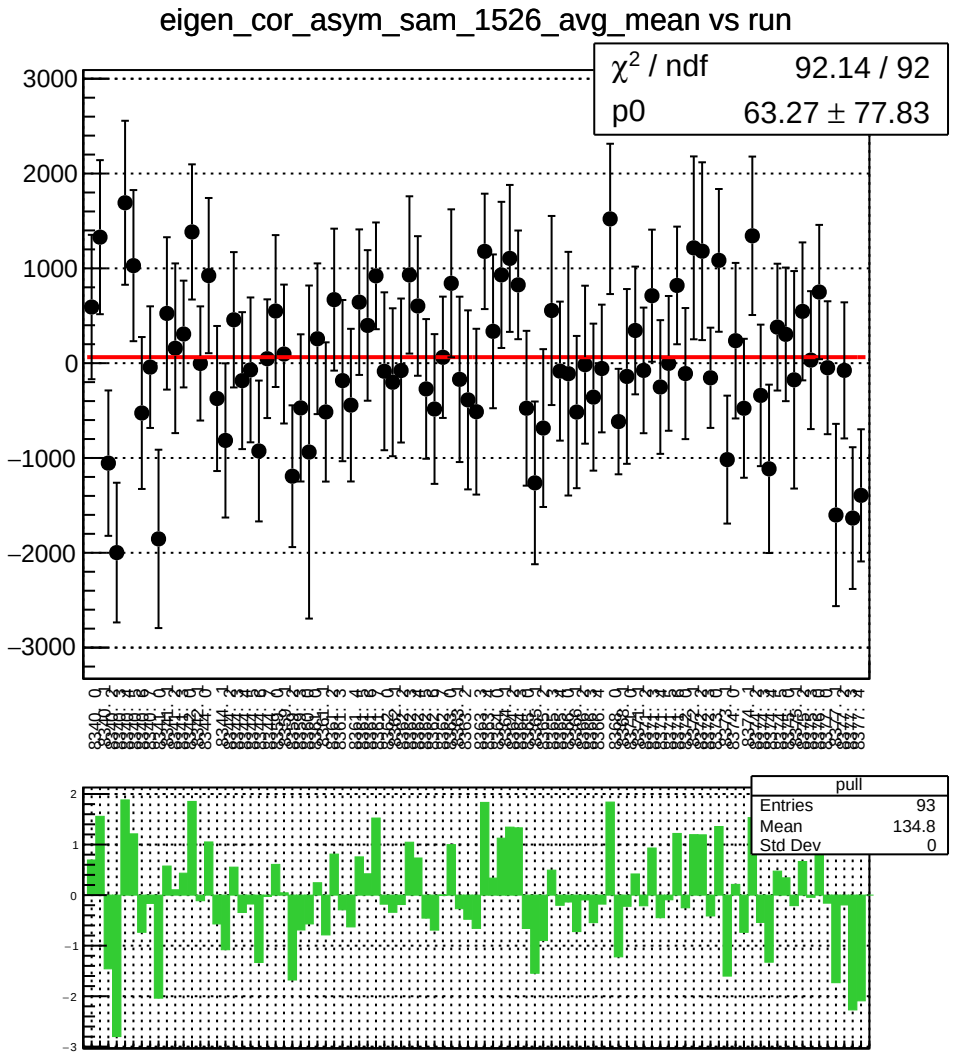

pull1D
Entries 93
Mean −0.01667
Std Dev 0.9952

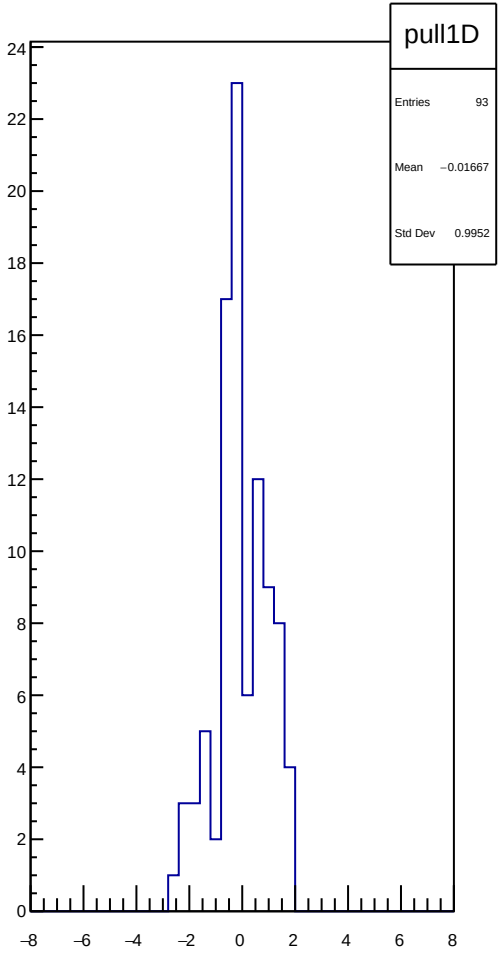

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.982e+04 / 92
p0 73.91 ± 0.05503
220
200
180
160
140
120
100
80
60

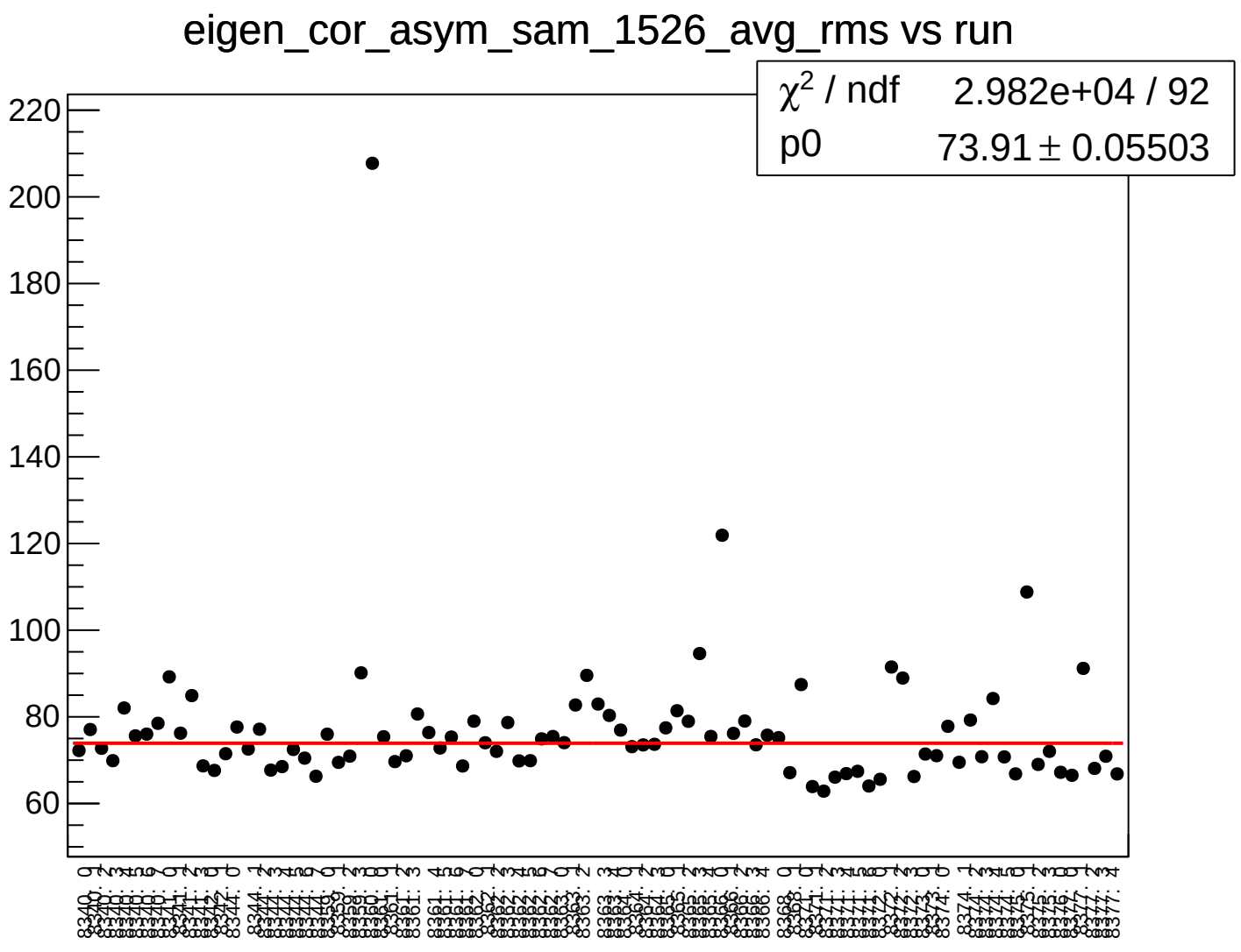

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −1439 ± 790.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −190.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

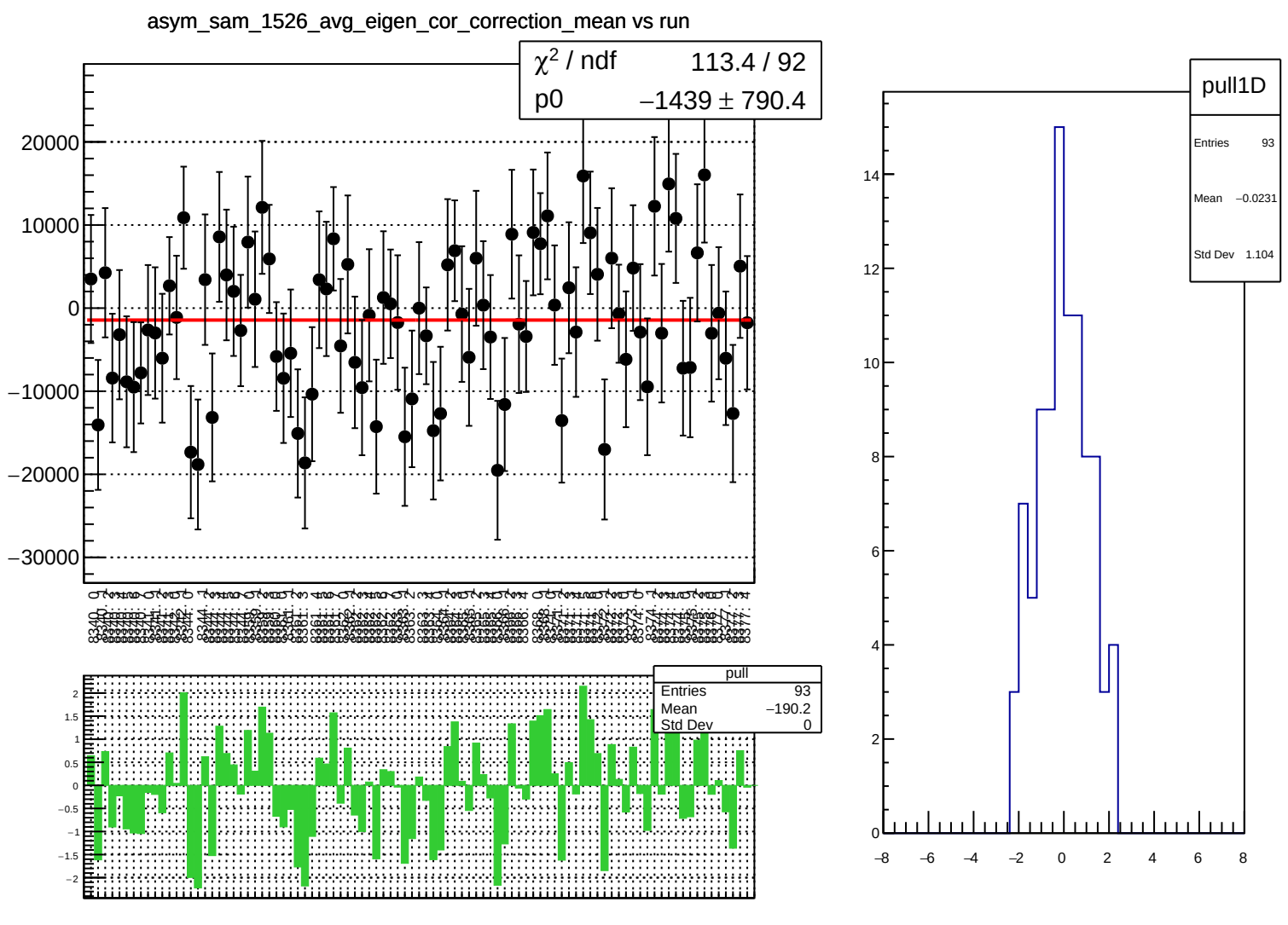

pull1D
Entries 93
Mean −0.0231
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

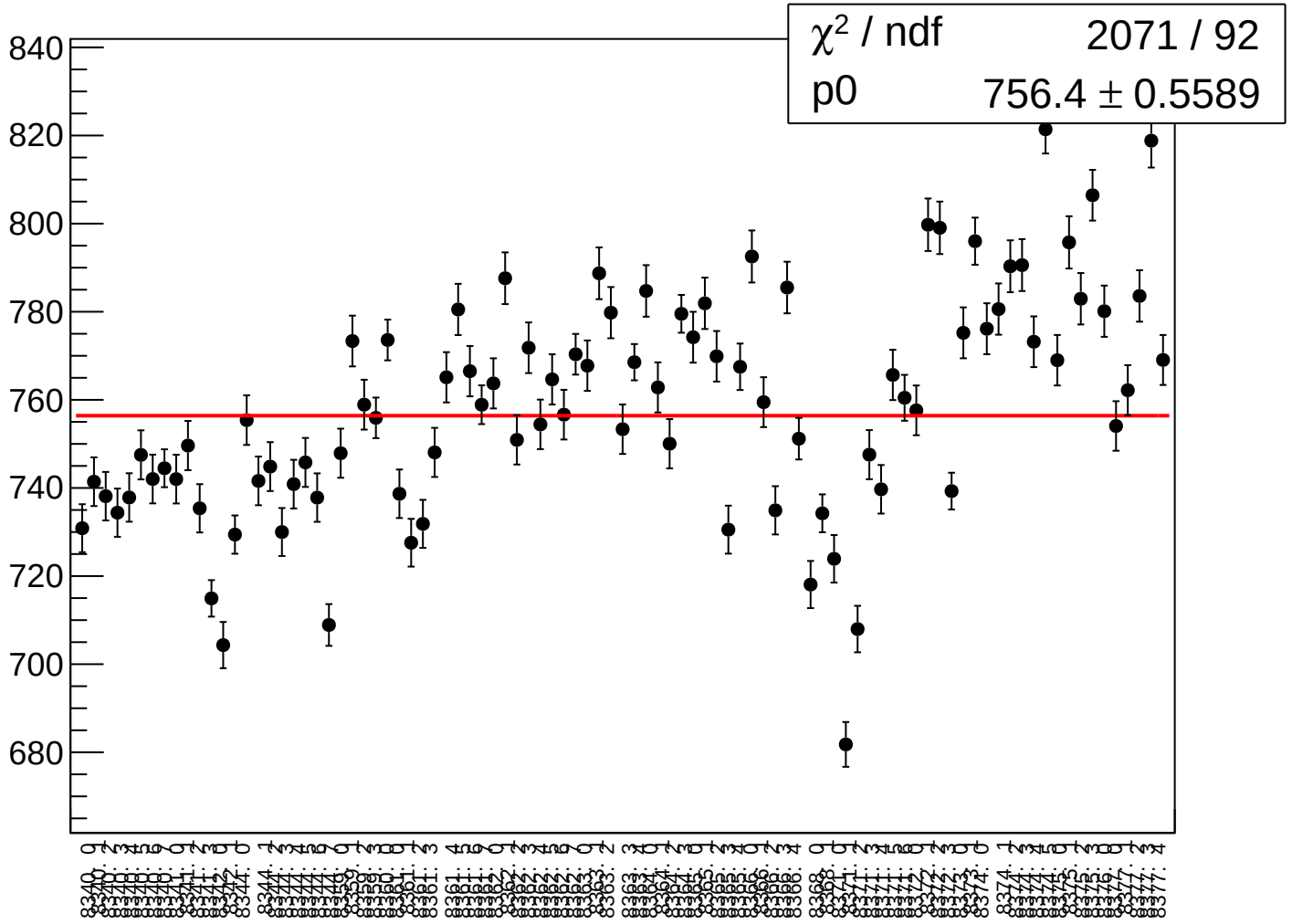

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2071 / 92
p0 756.4 ± 0.5589
840
820
800
780
760
740
720
700
680

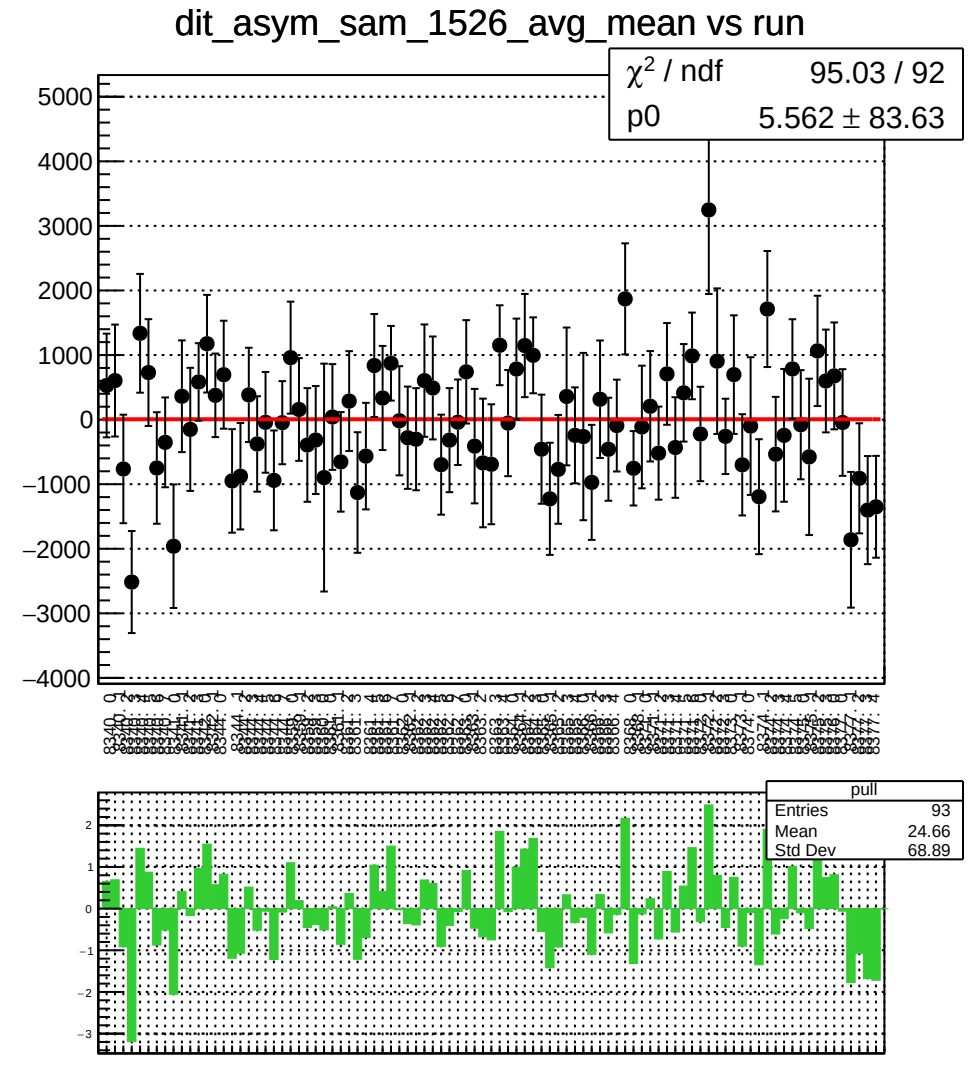

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 92.14 / 92
p0 63.27 ± 77.83
pull
Entries 93
Mean 134.8
Std Dev 0

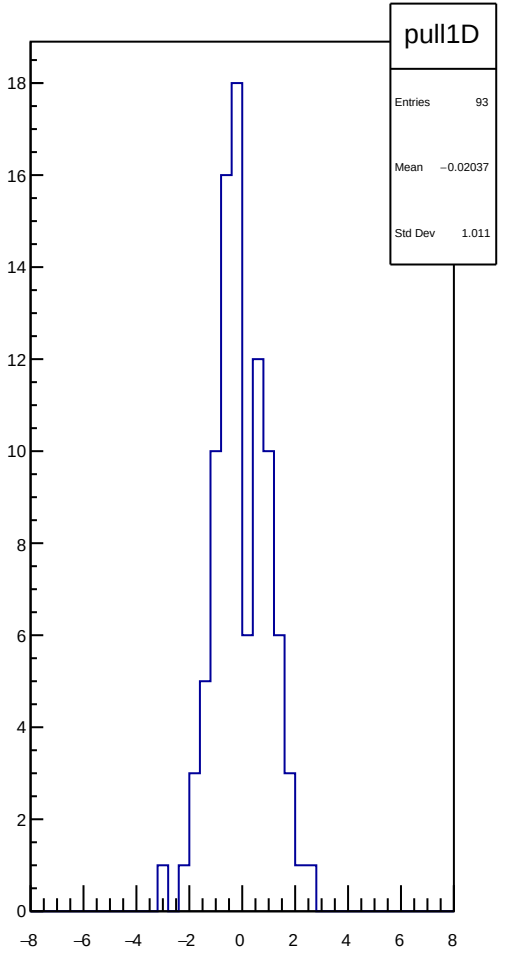

pull1D
Entries 93
Mean −0.01667
Std Dev 0.9952

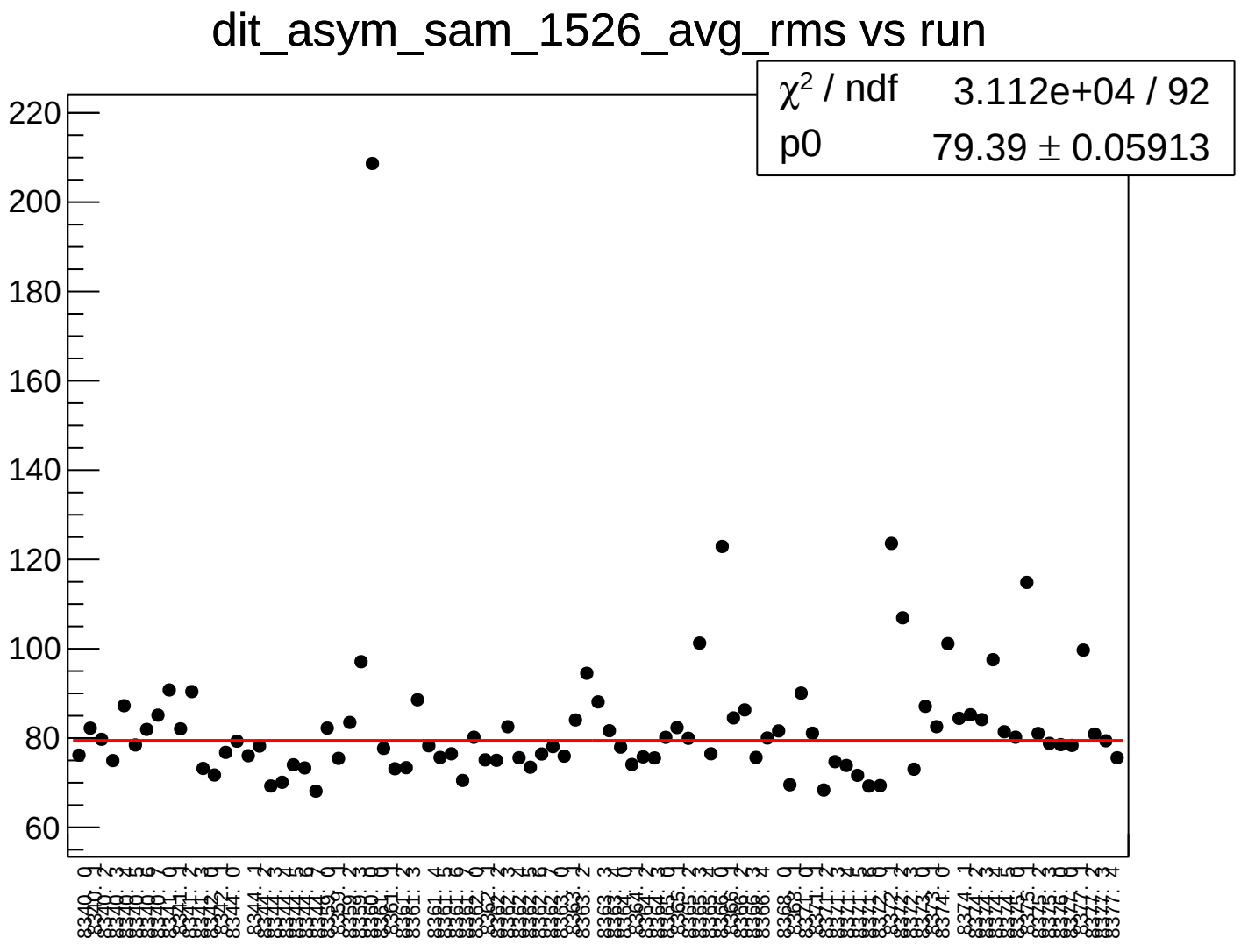

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.982e+04 / 92
p0 73.91 ± 0.05503
220
200
180
160
140
120
100
80
60

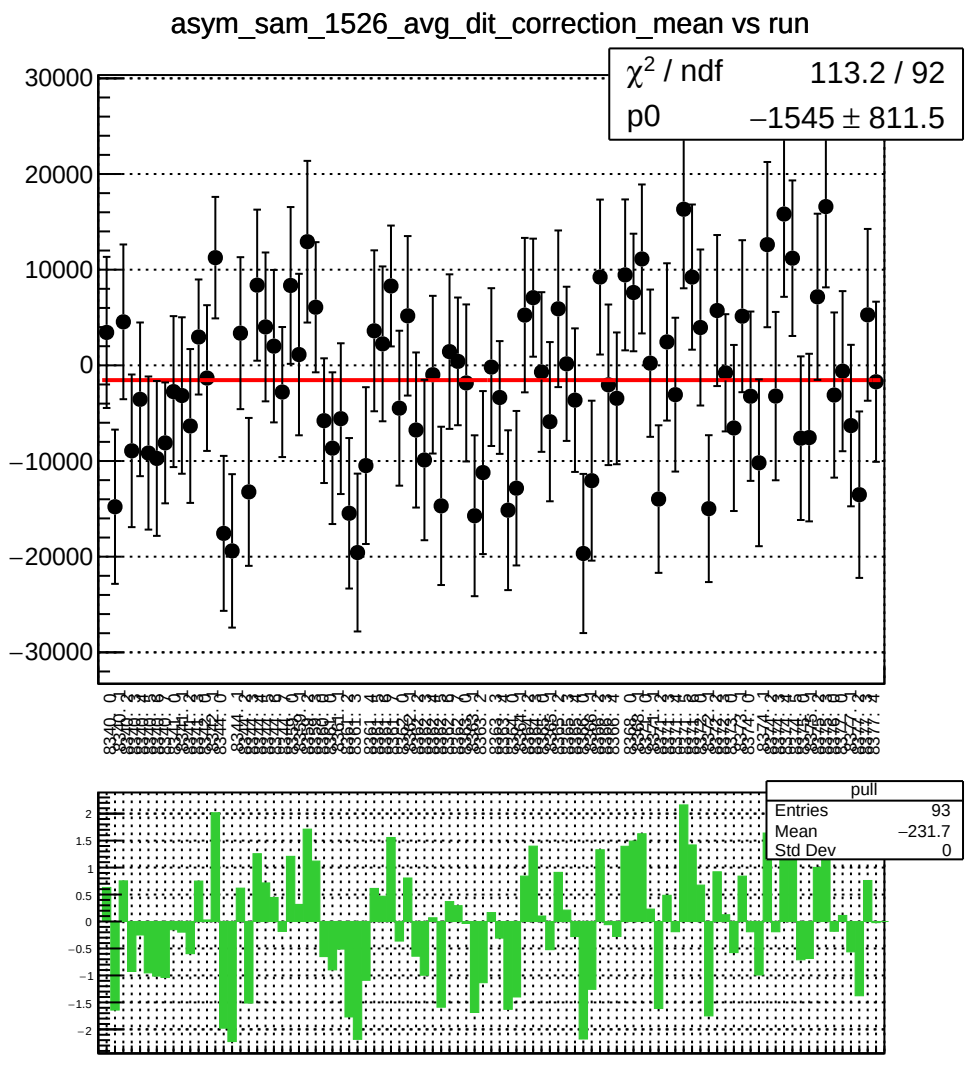

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 −1439 ± 790.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −190.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.0231
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

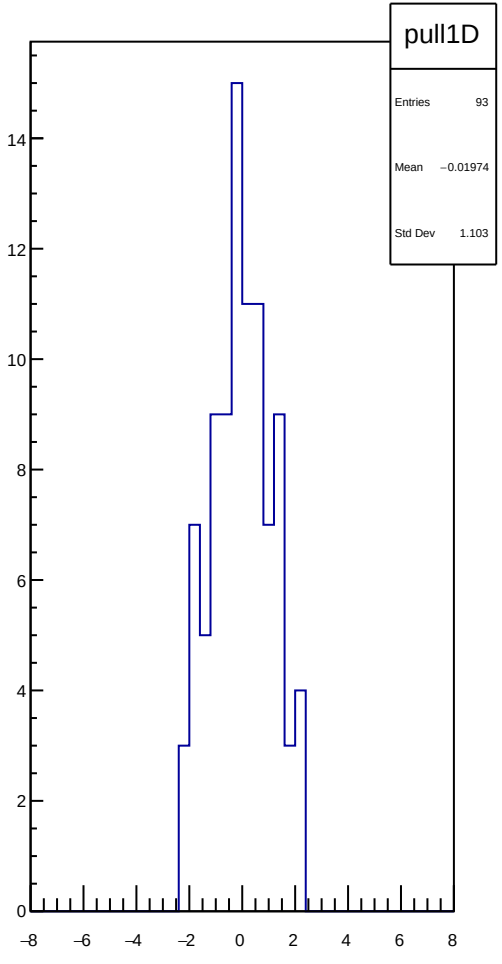

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 2071 / 92
p0 756.4 ± 0.5589
840
820
800
780
760
740
720
700
680

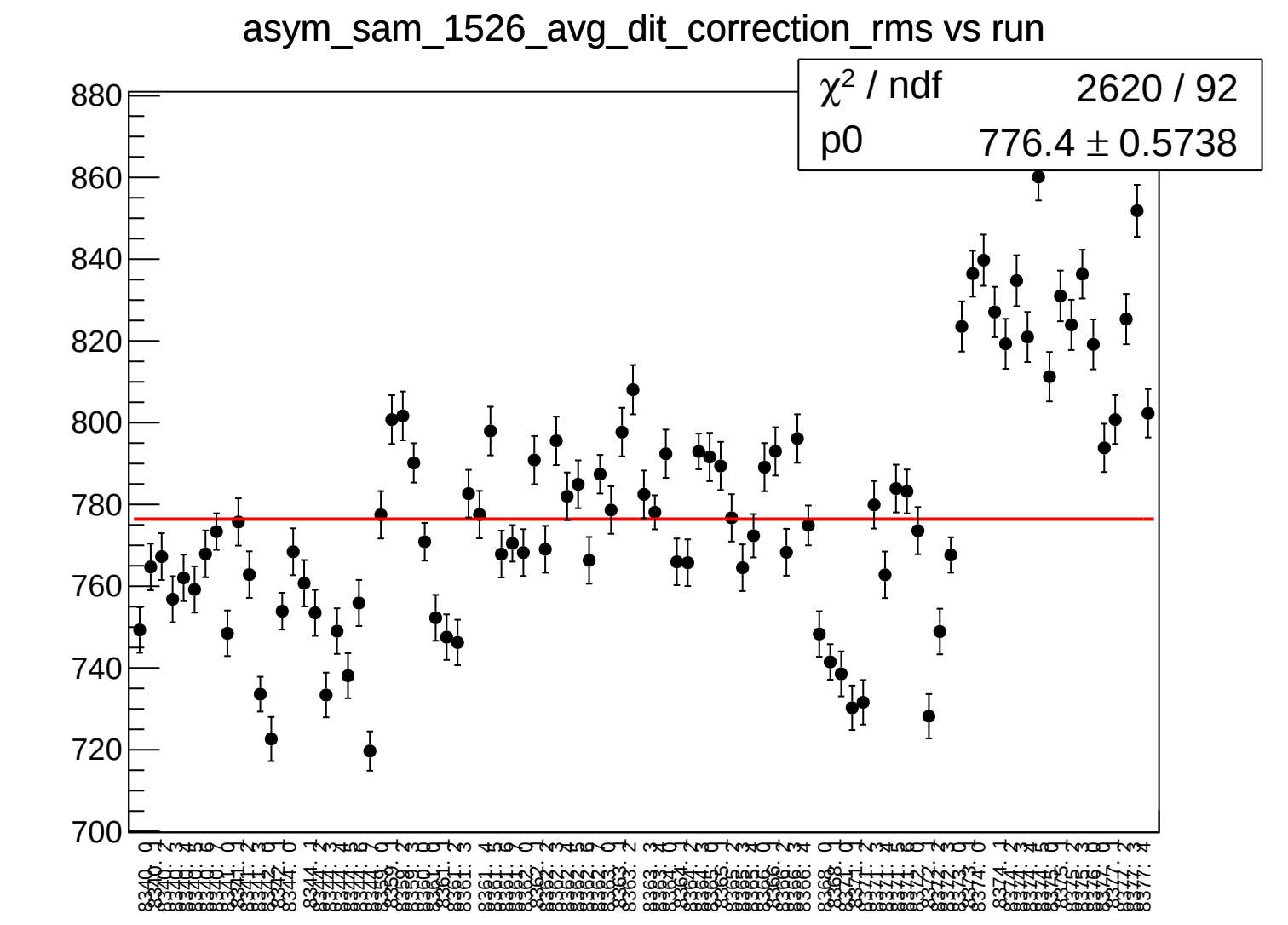

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 95.03 / 92
p0 5.562 ± 83.63
pull
Entries 93
Mean 24.66
Std Dev 68.89

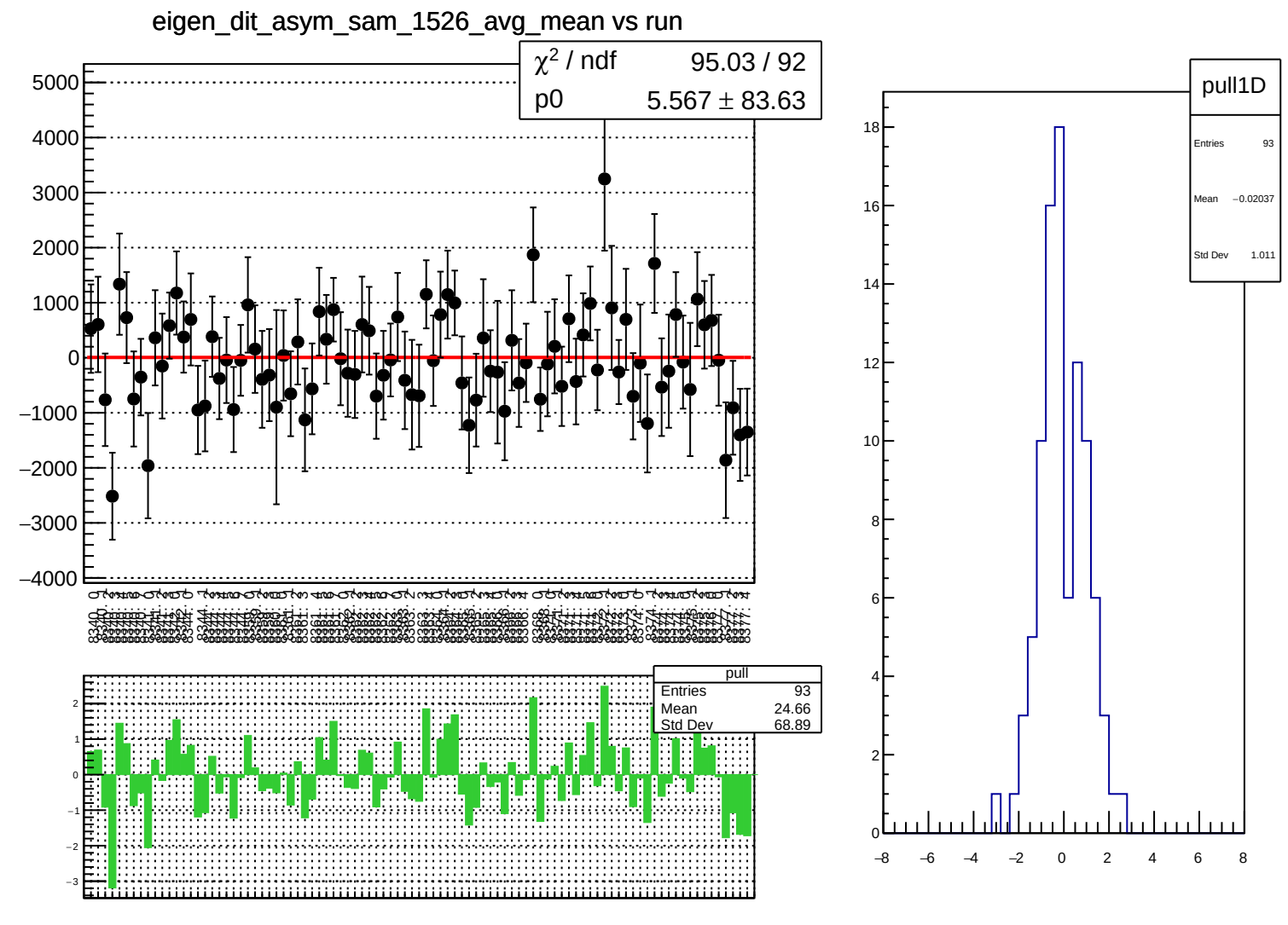

pull1D
Entries 93
Mean −0.02037
Std Dev 1.011

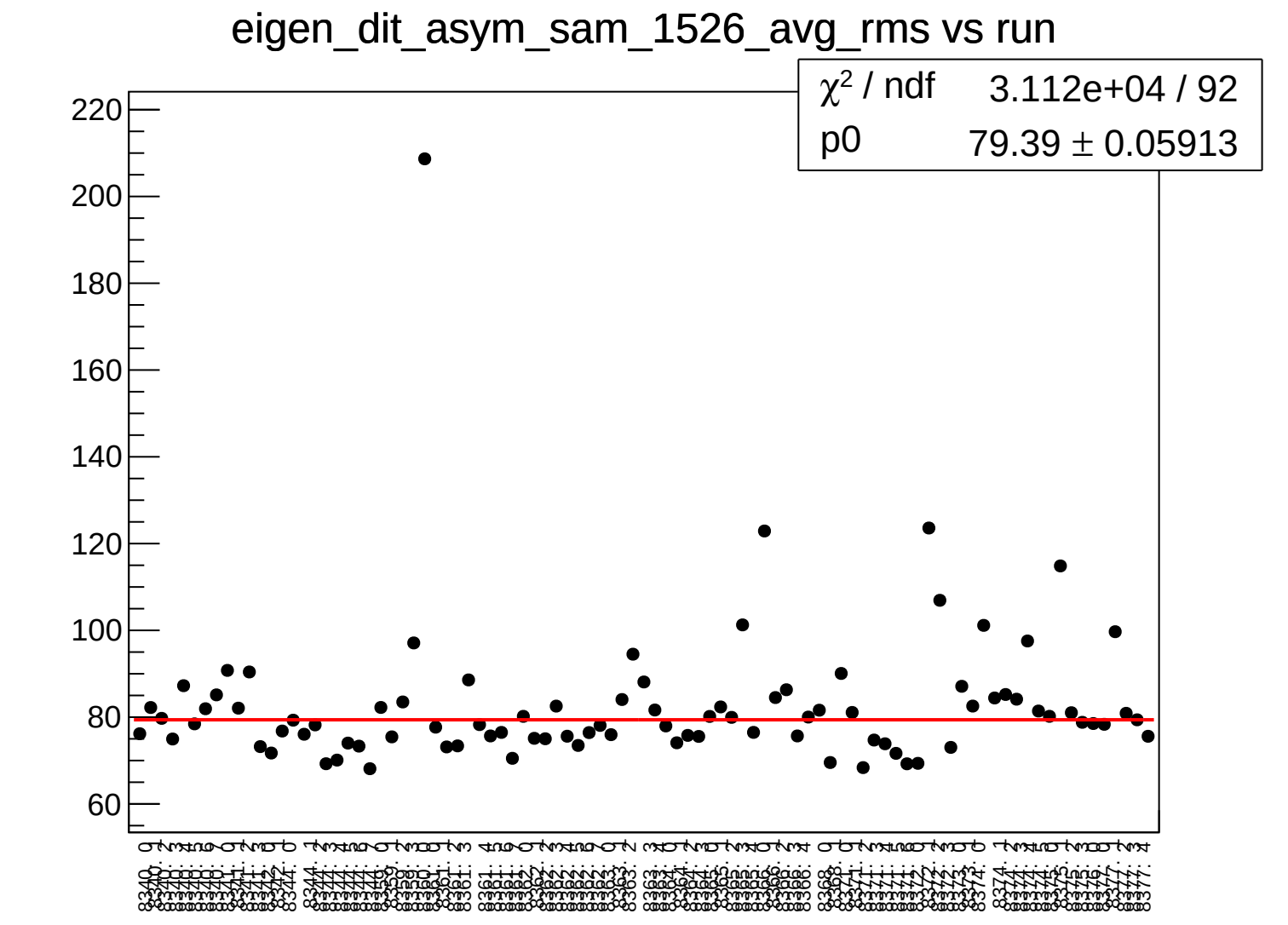

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.112e+04 / 92
p0 79.39 ± 0.05913
220
200
180
160
140
120
100
80
60

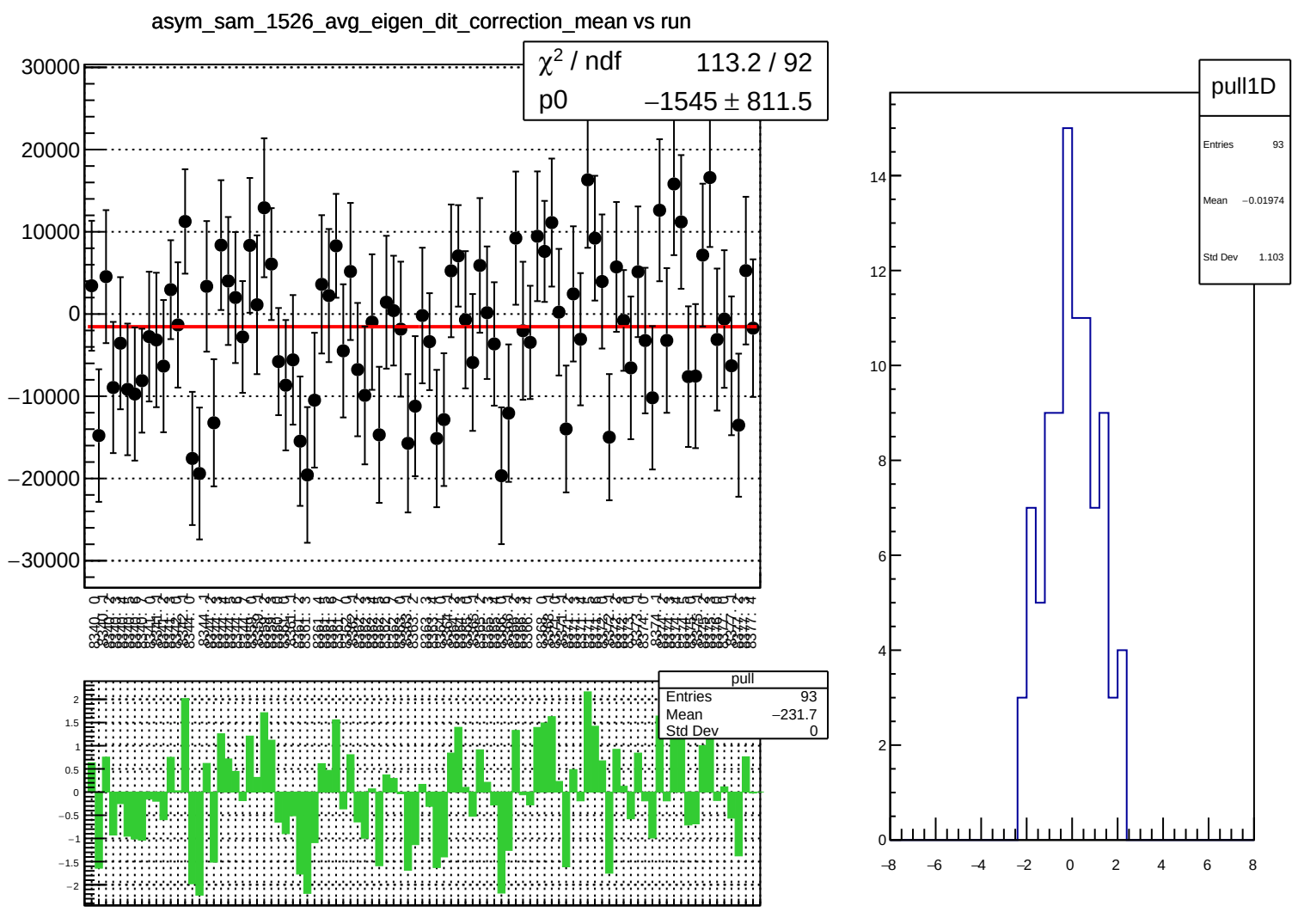

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 113.2 / 92
p0 −1545 ± 811.5
pull
Entries 93
Mean −231.7
Std Dev 0

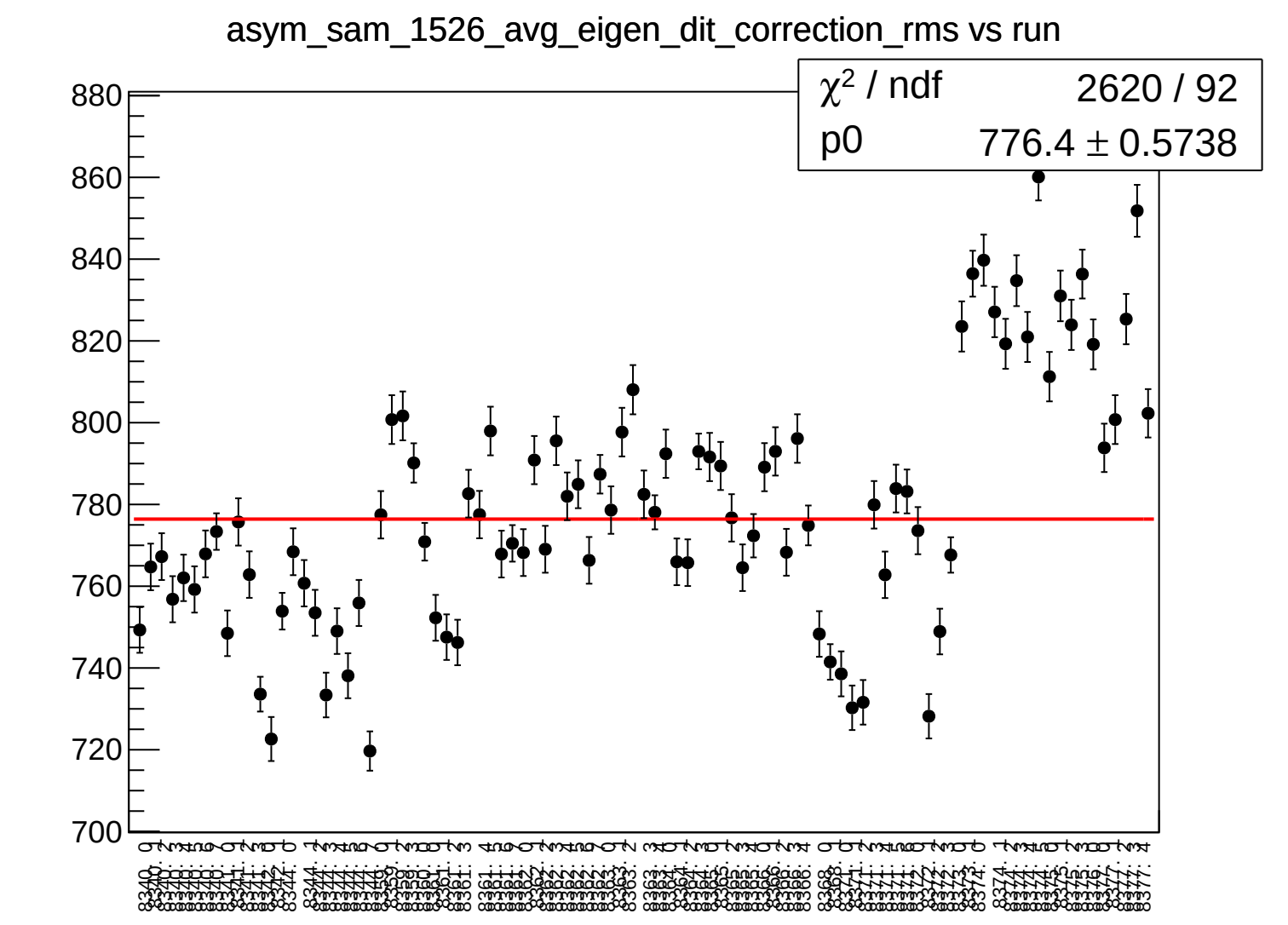

pull1D
Entries 93
Mean −0.01974
Std Dev 1.103

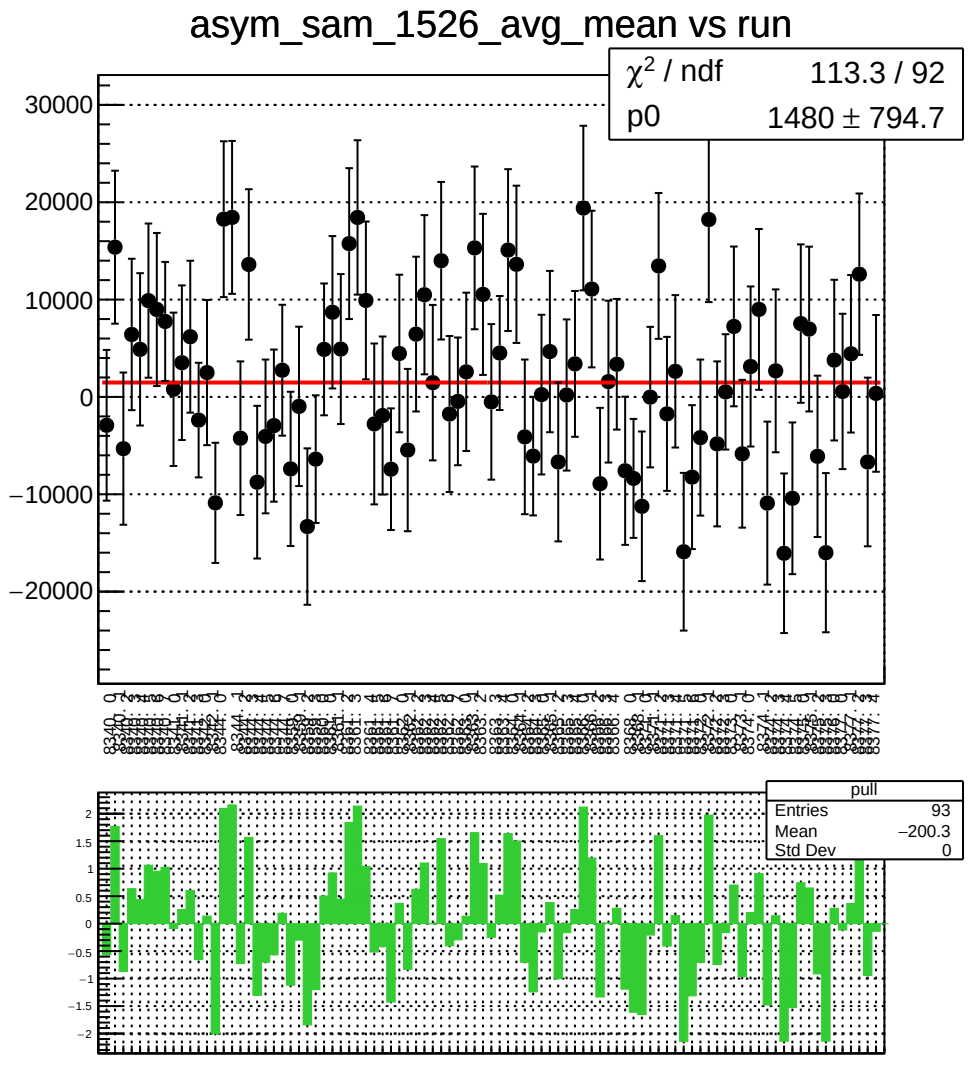

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2620 / 92
p0 776.4 ± 0.5738
880
860
840
820
800
780
760
740
720
700

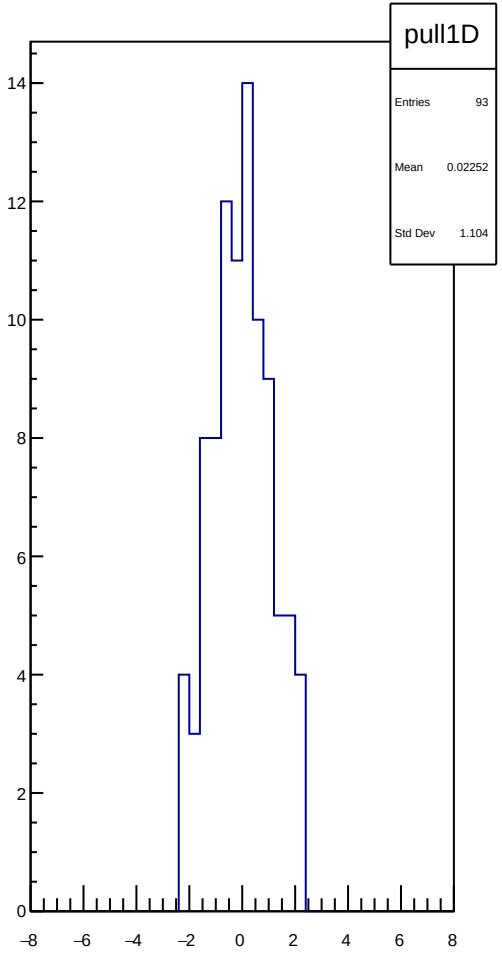

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 95.03 / 92
p0 5.567 ± 83.63
pull
Entries 93
Mean 24.66
Std Dev 68.89
pull1D
Entries 93
Mean −0.02037
Std Dev 1.011

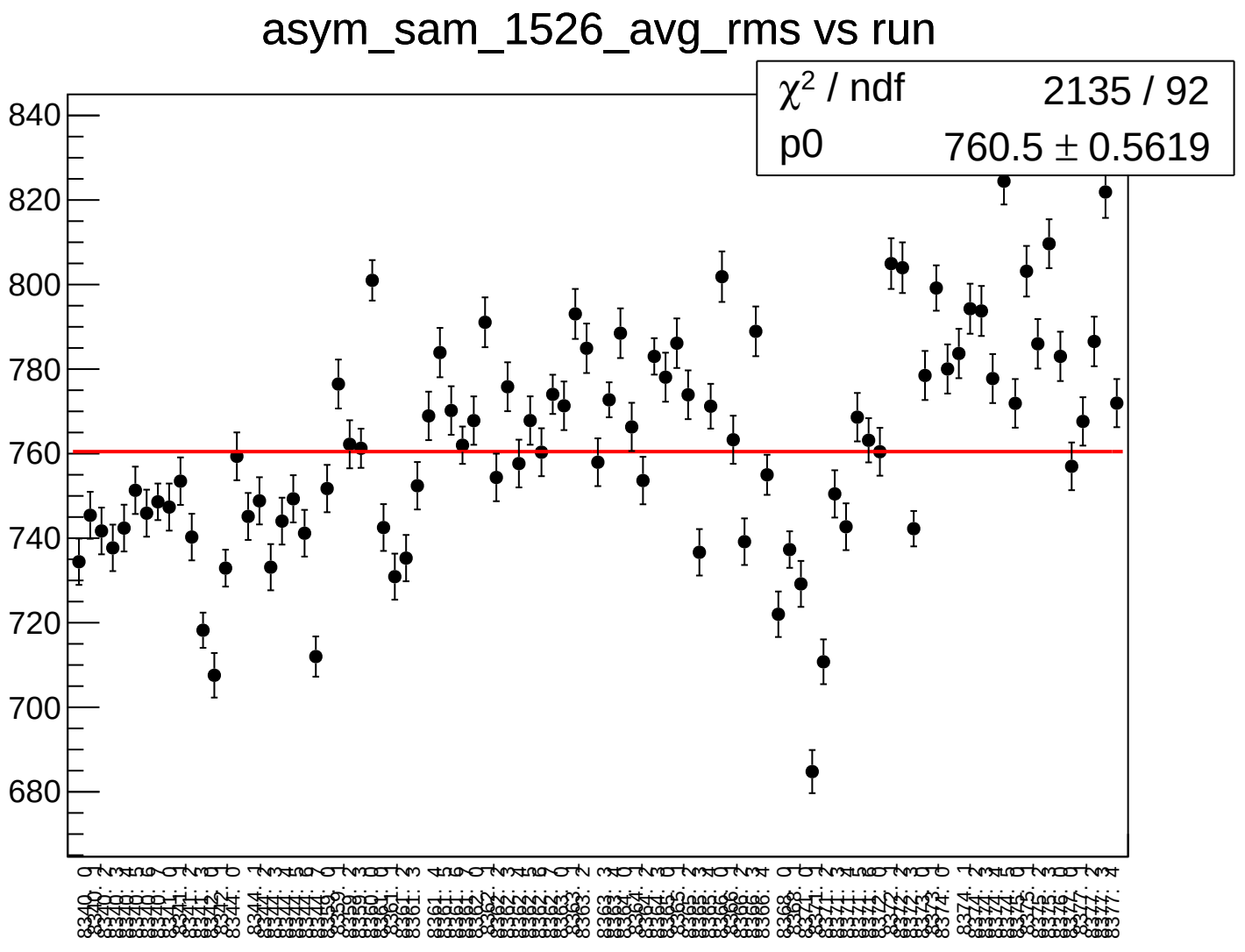

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.112e+04 / 92
p0 79.39 ± 0.05913
220
200
180
160
140
120
100
80
60

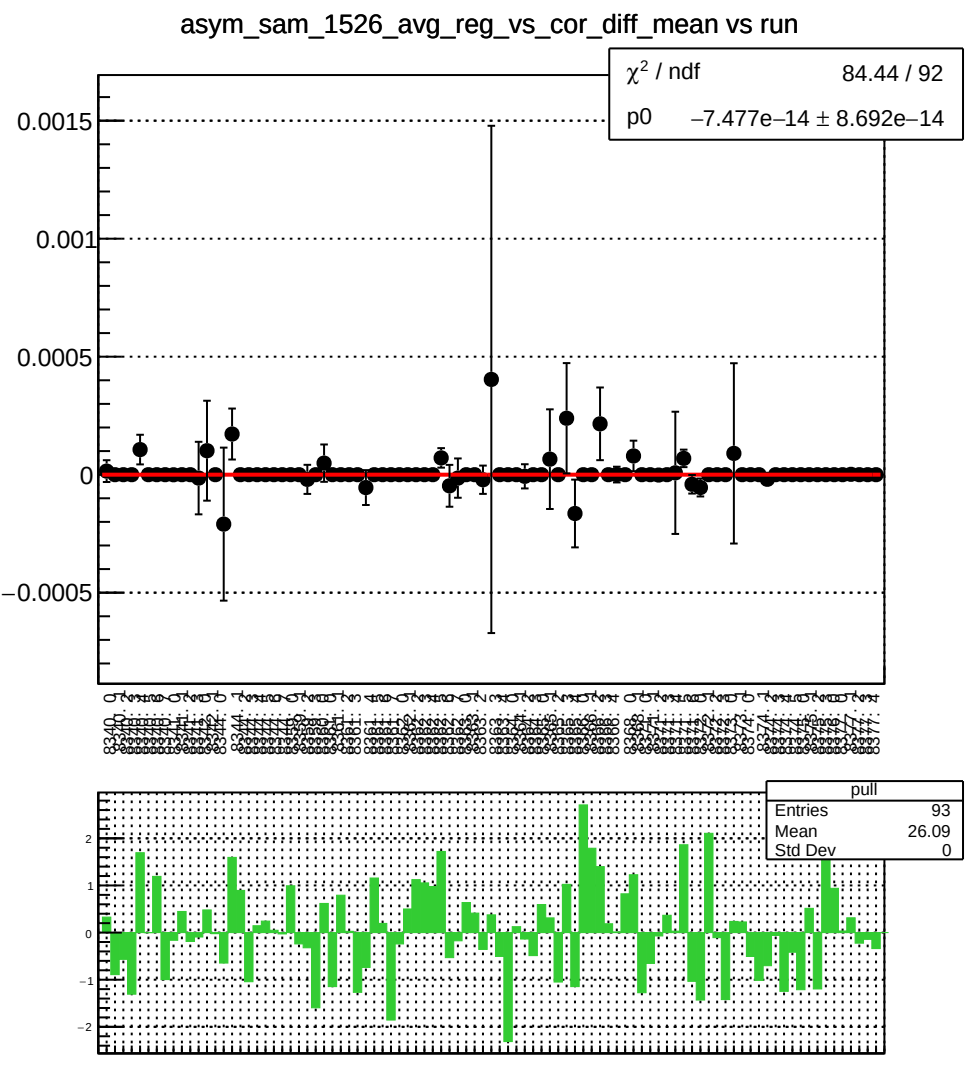

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.2 / 92
p0 −1545 ± 811.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −231.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01974
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

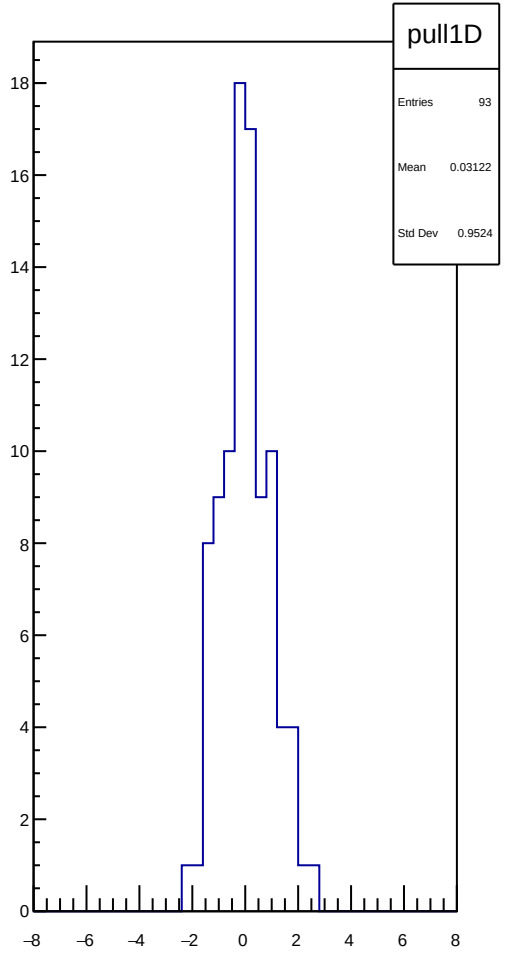

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2620 / 92
p0 776.4 ± 0.5738
880
860
840
820
800
780
760
740
720
700

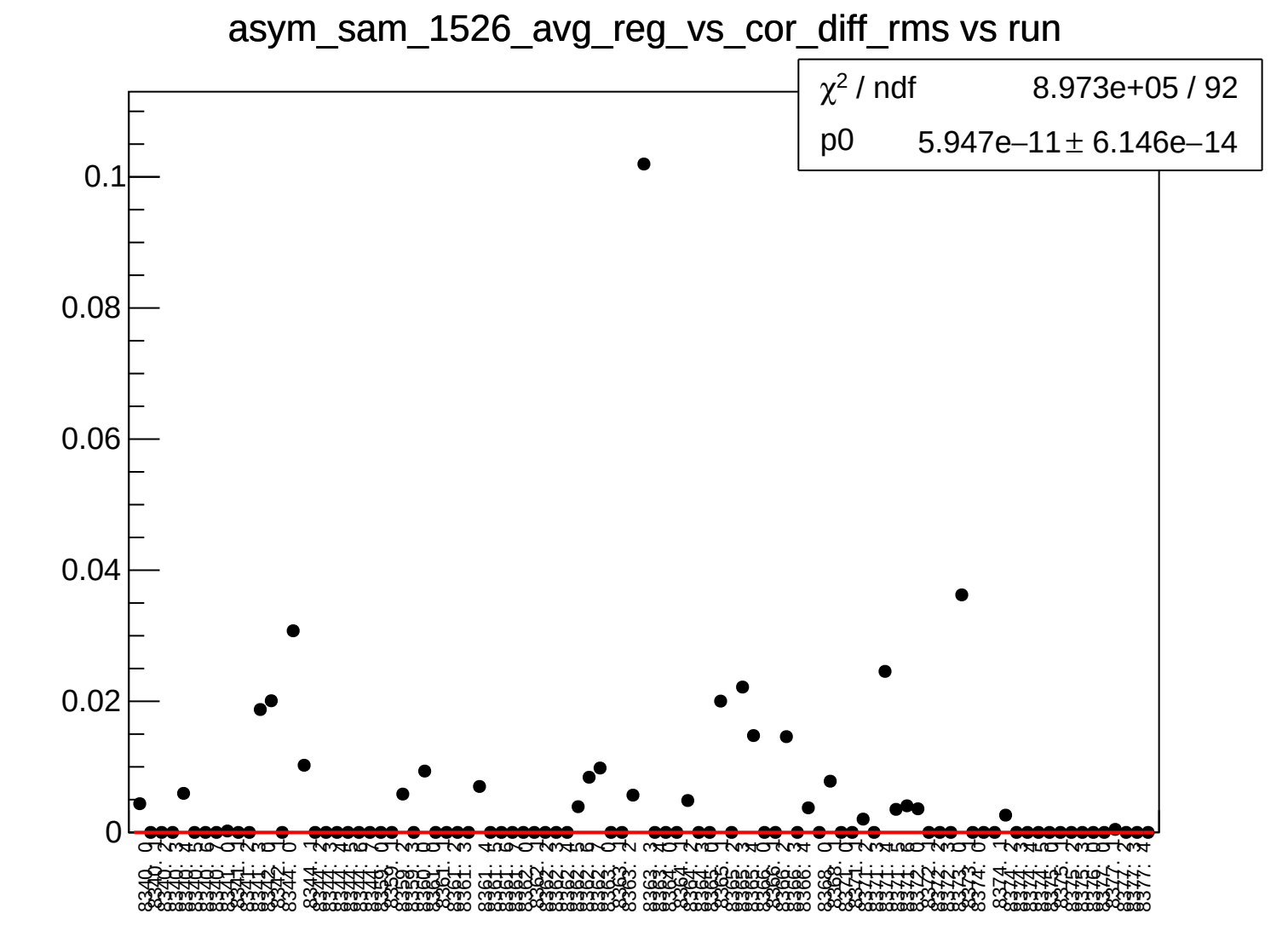

asym_sam_1526_avg_mean vs run
χ² / ndf 113.3 / 92
p0 1480 ± 794.7
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −200.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

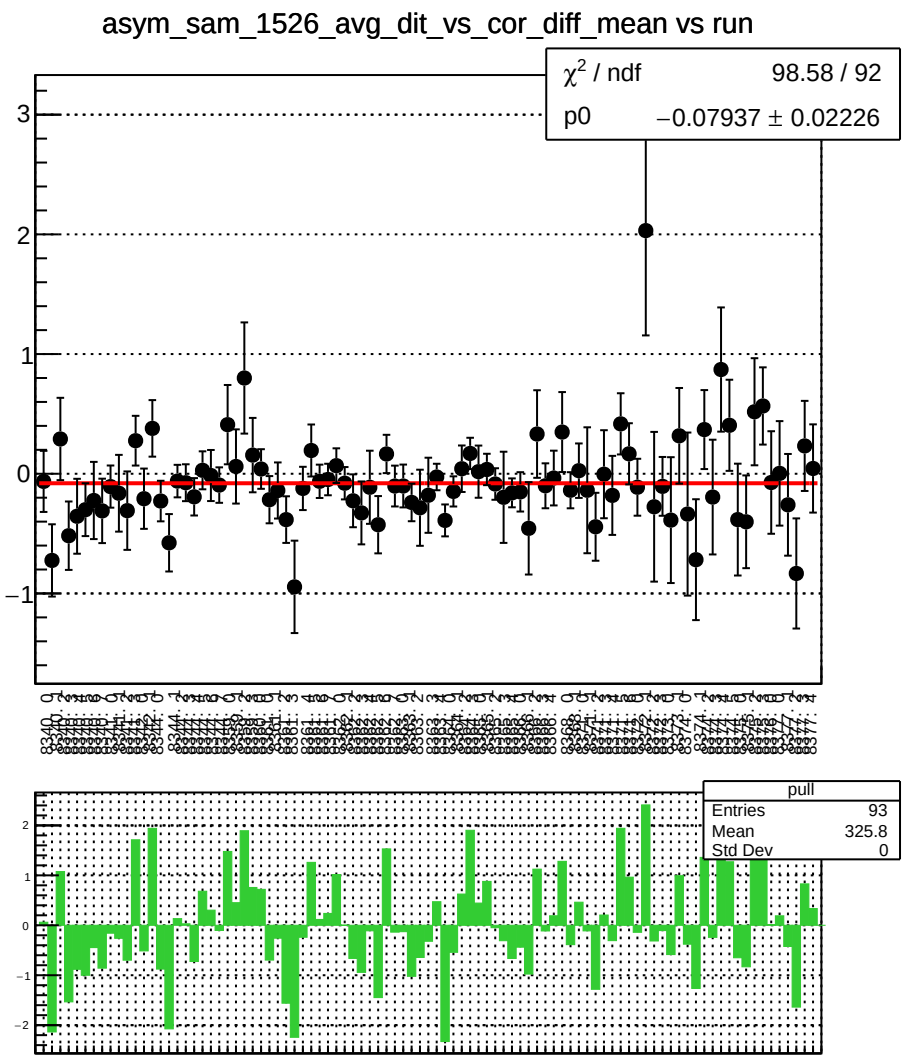

pull1D
Entries 93
Mean 0.02252
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

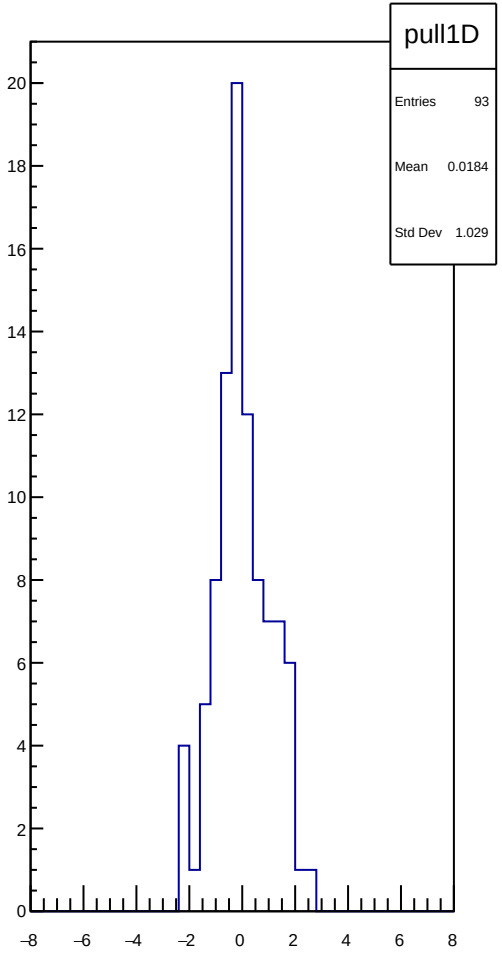

asym_sam_1526_avg_rms vs run
χ^2 / ndf 2135 / 92
p0 760.5 ± 0.5619
840
820
800
780
760
740
720
700
680

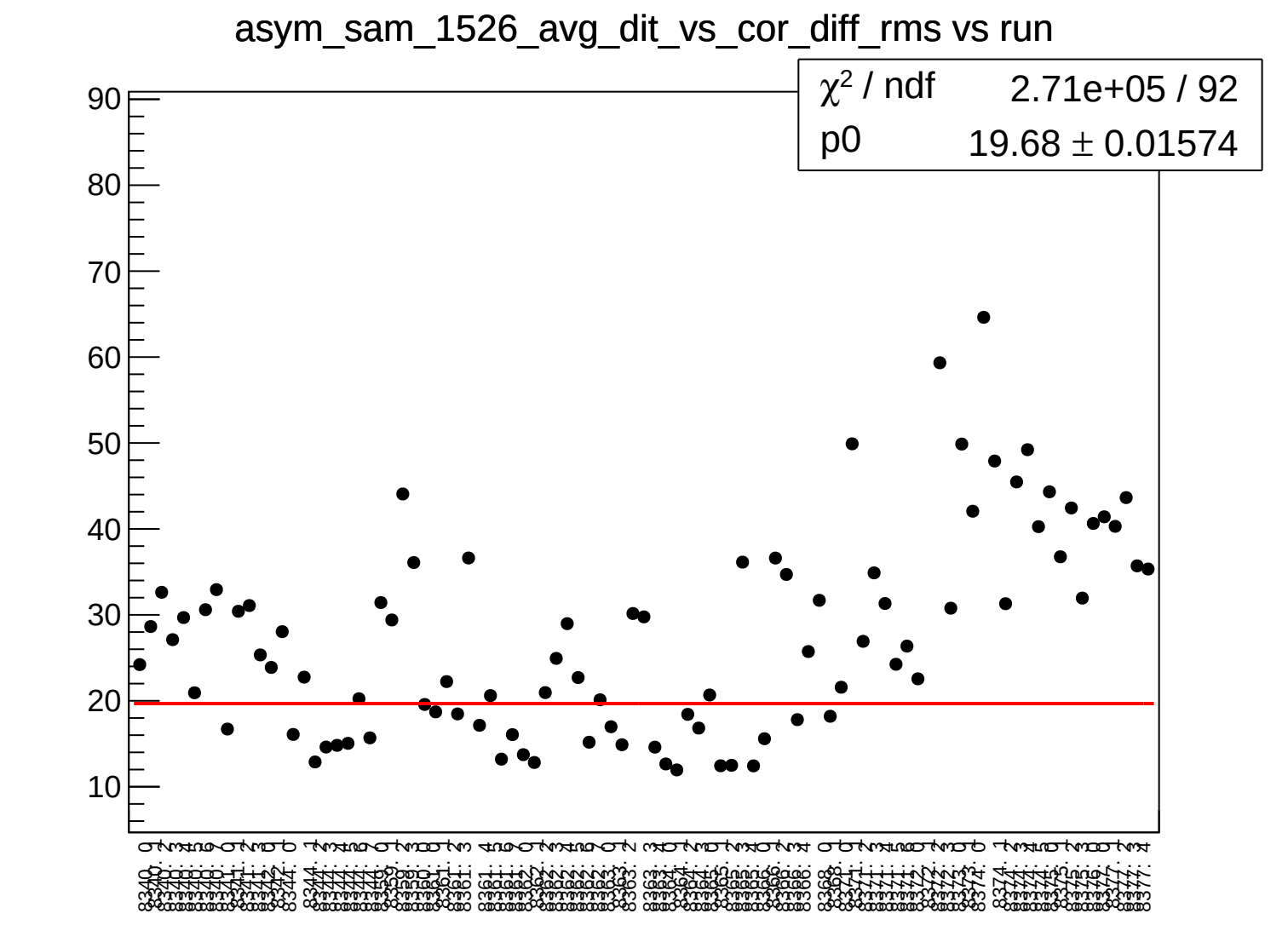

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.44 / 92
p0 −7.477e−14 ± 8.692e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 93
Mean 26.09
Std Dev 0
2
1
0
−1
−2

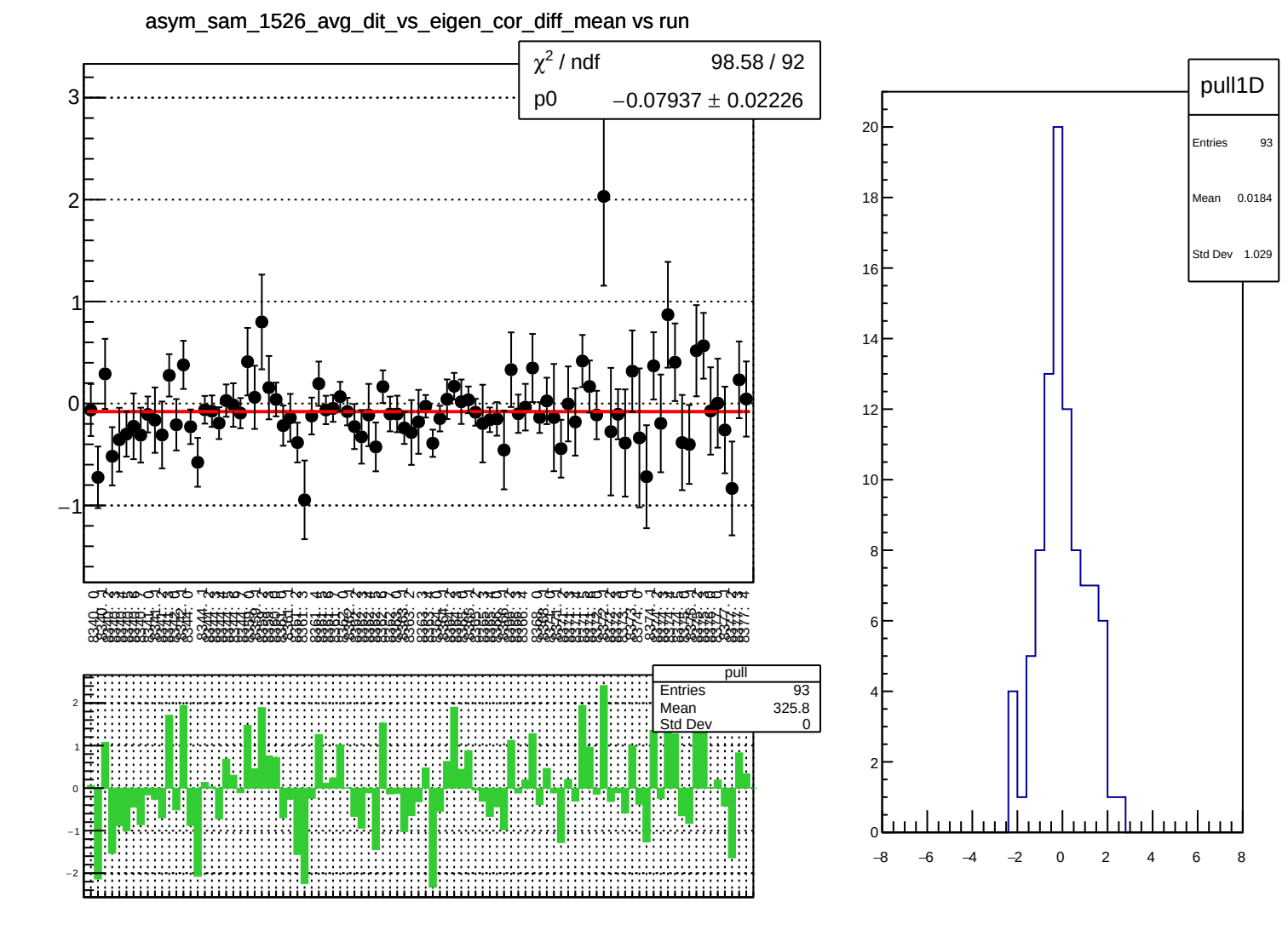

pull1D
Entries 93
Mean 0.03122
Std Dev 0.9524
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

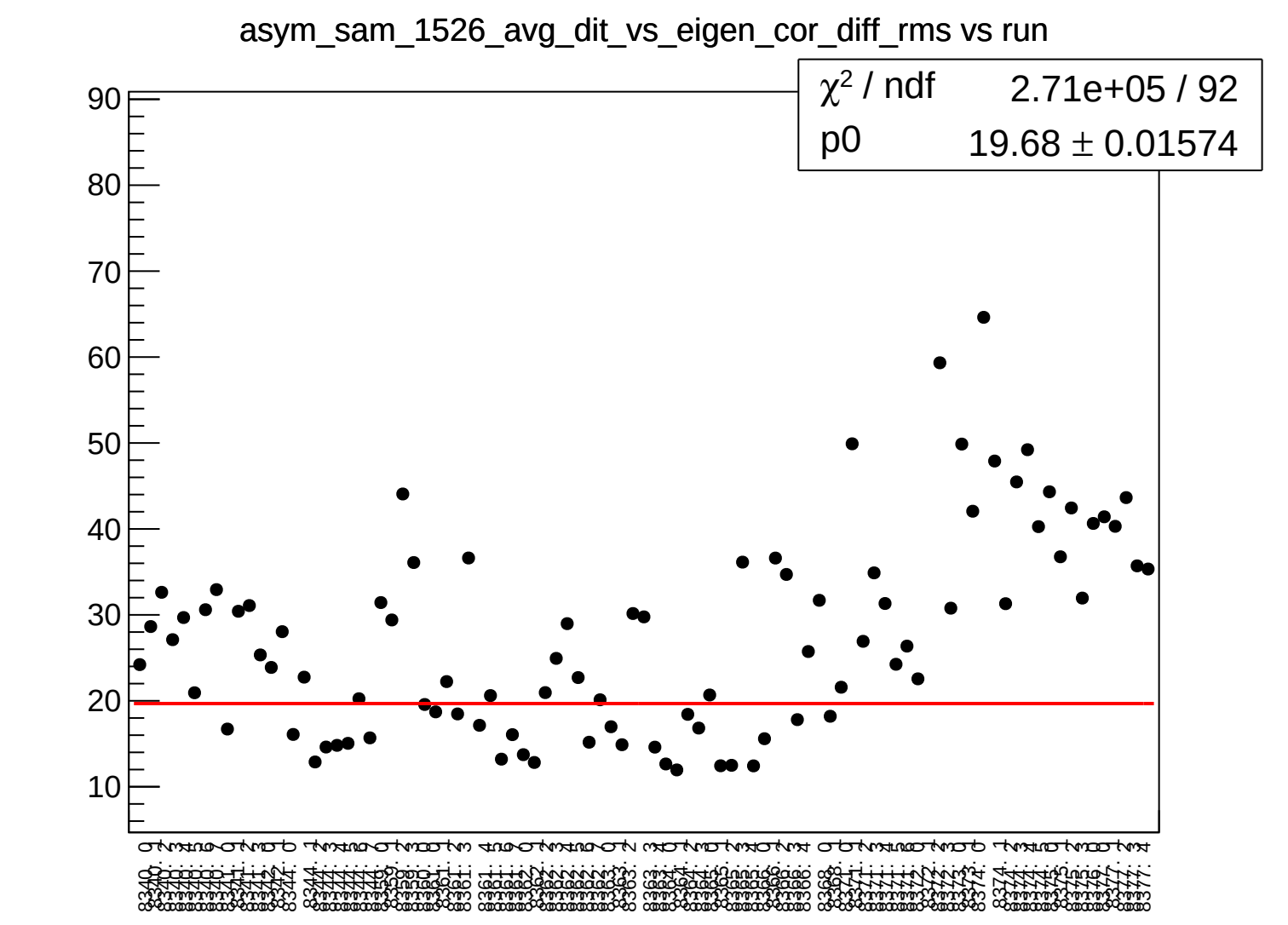

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.973e+05 / 92
p0 5.947e−11 ± 6.146e−14
0.1
0.08
0.06
0.04
0.02
0

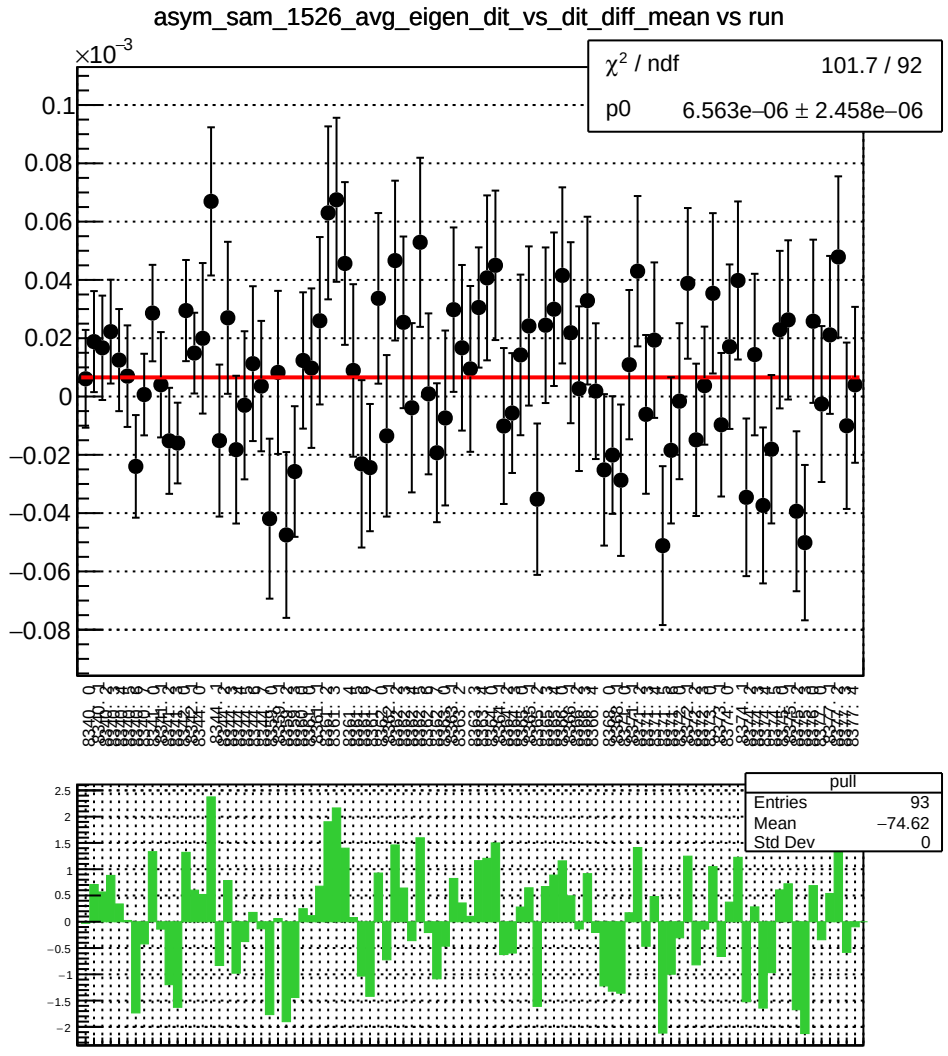

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.58 / 92
p0 −0.07937 ± 0.02226
pull
Entries 93
Mean 325.8
Std Dev 0

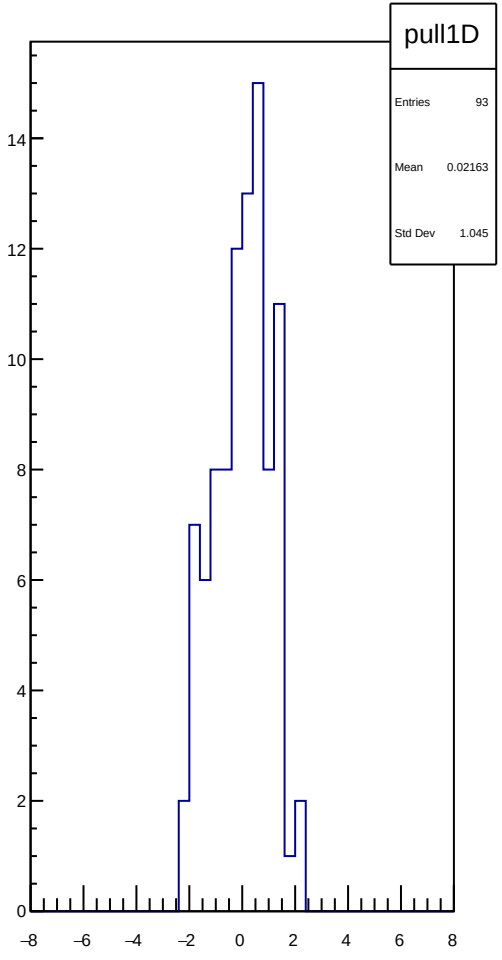

pull1D
Entries 93
Mean 0.0184
Std Dev 1.029

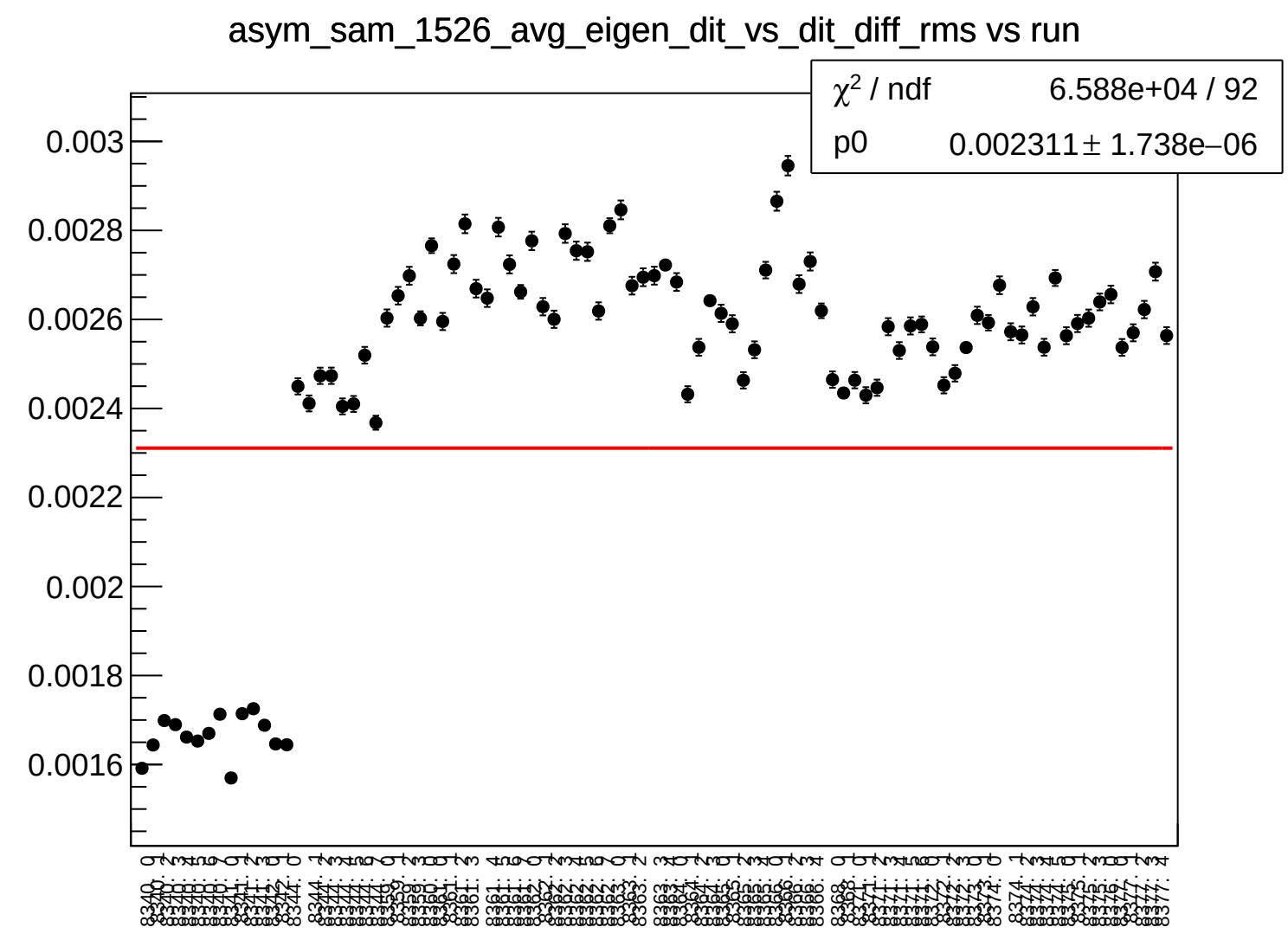

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.71e+05 / 92
p0 19.68 ± 0.01574
90
80
70
60
50
40
30
20
10

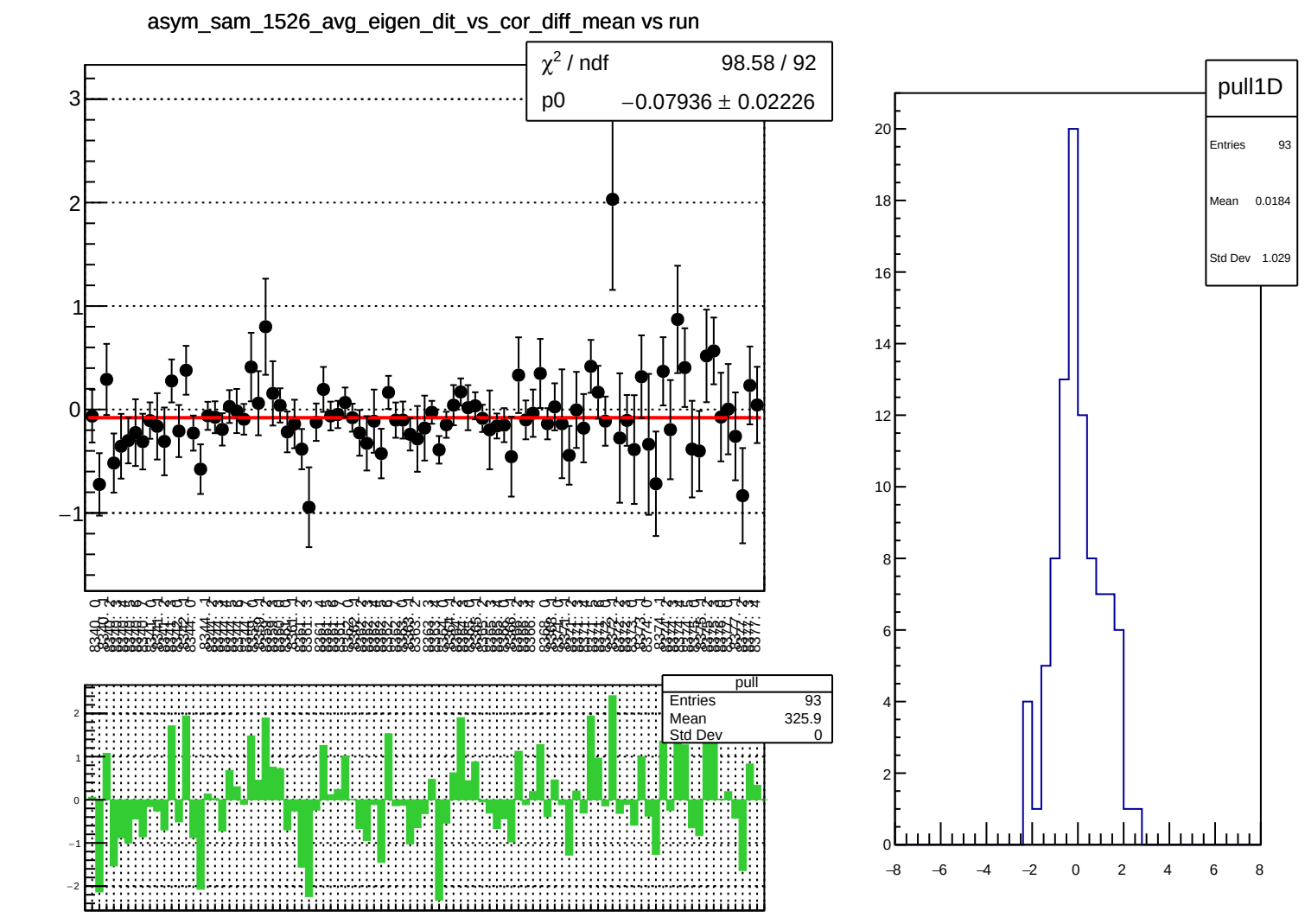

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.58 / 92
p0 −0.07937 ± 0.02226
pull
Entries 93
Mean 325.8
Std Dev 0
pull1D
Entries 93
Mean 0.0184
Std Dev 1.029

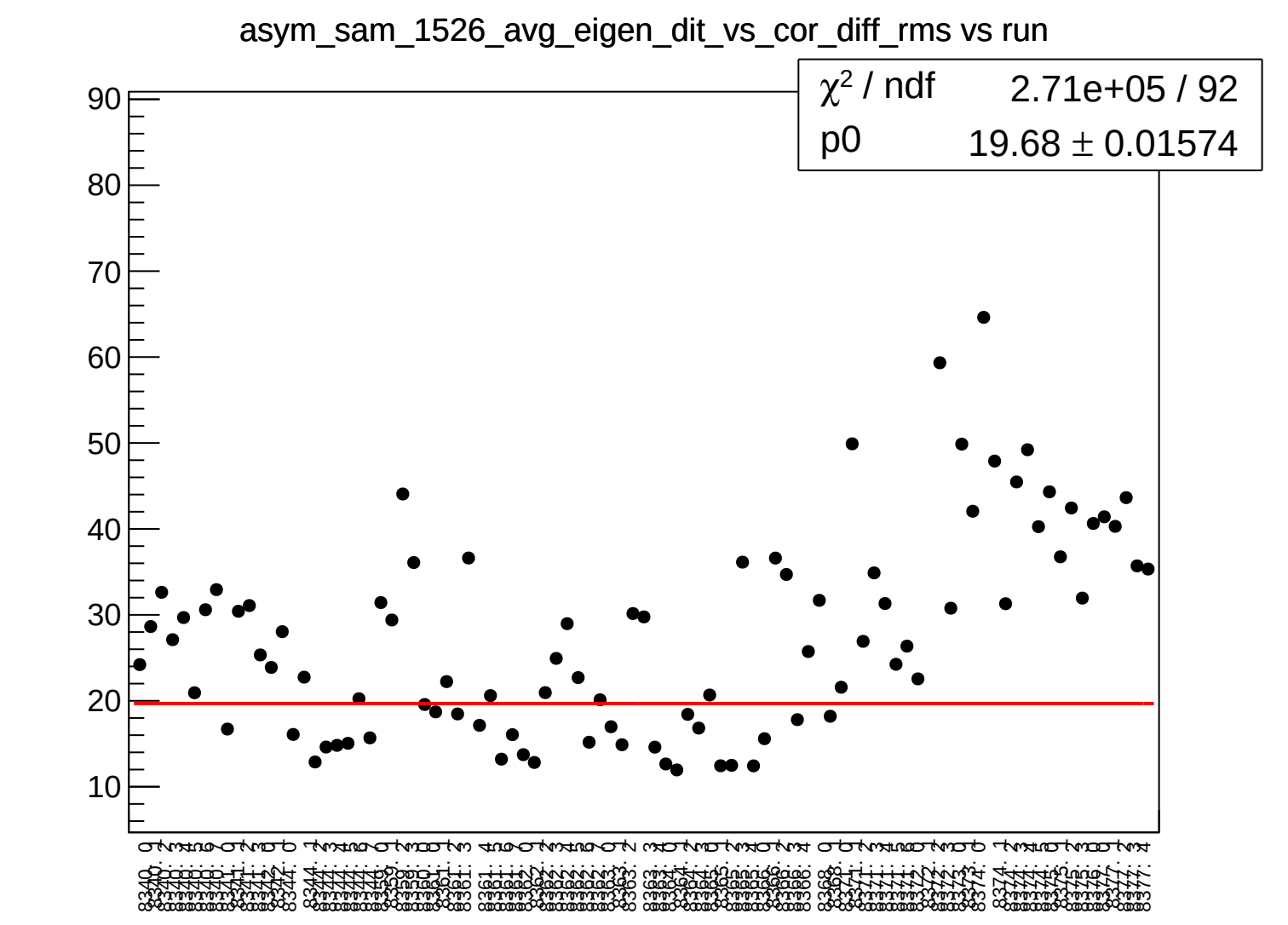

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.71e+05 / 92
p0 19.68 ± 0.01574
90
80
70
60
50
40
30
20
10

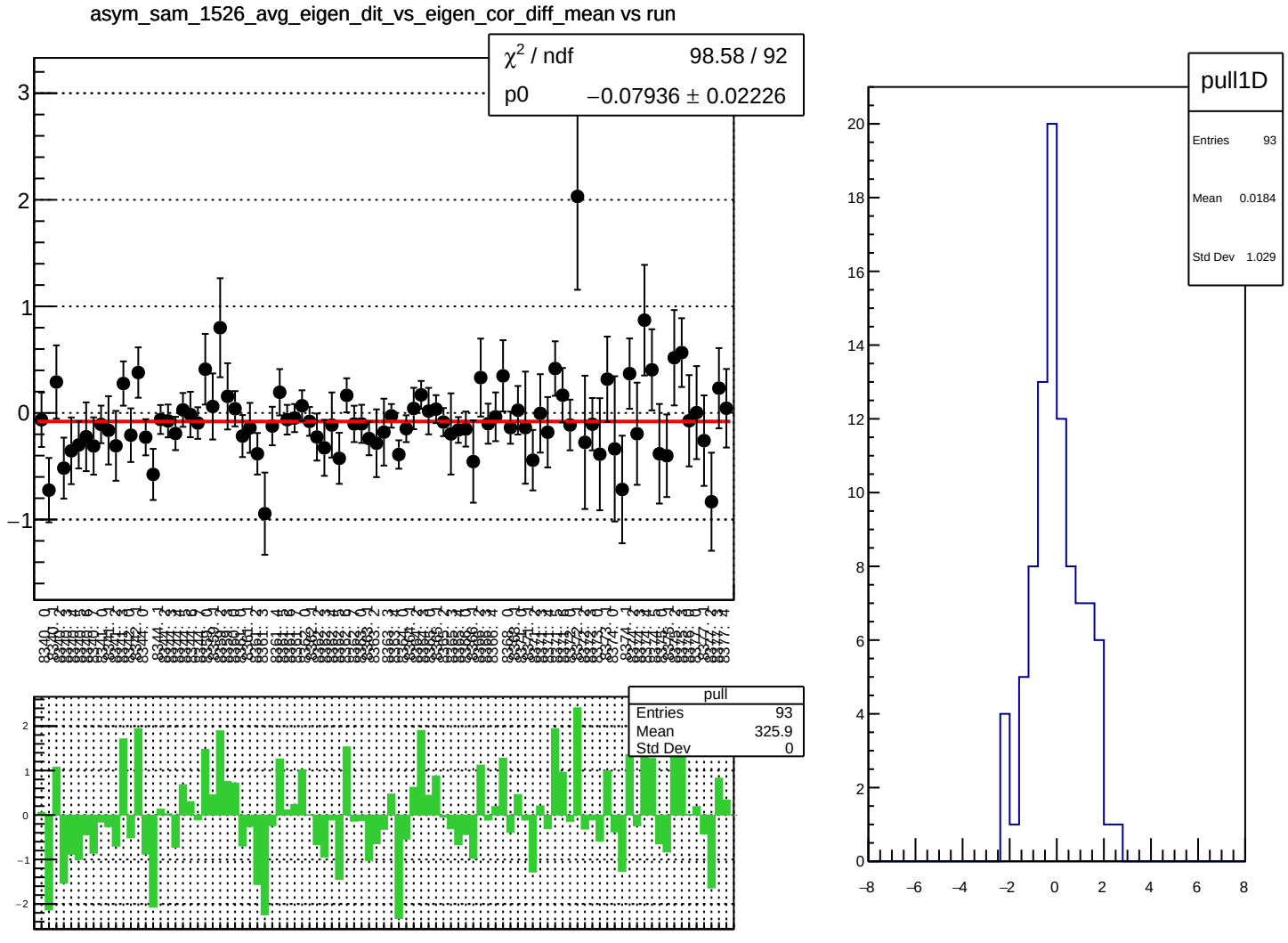

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 92
p0 6.563e−06 ± 2.458e−06
pull
Entries 93
Mean −74.62
Std Dev 0

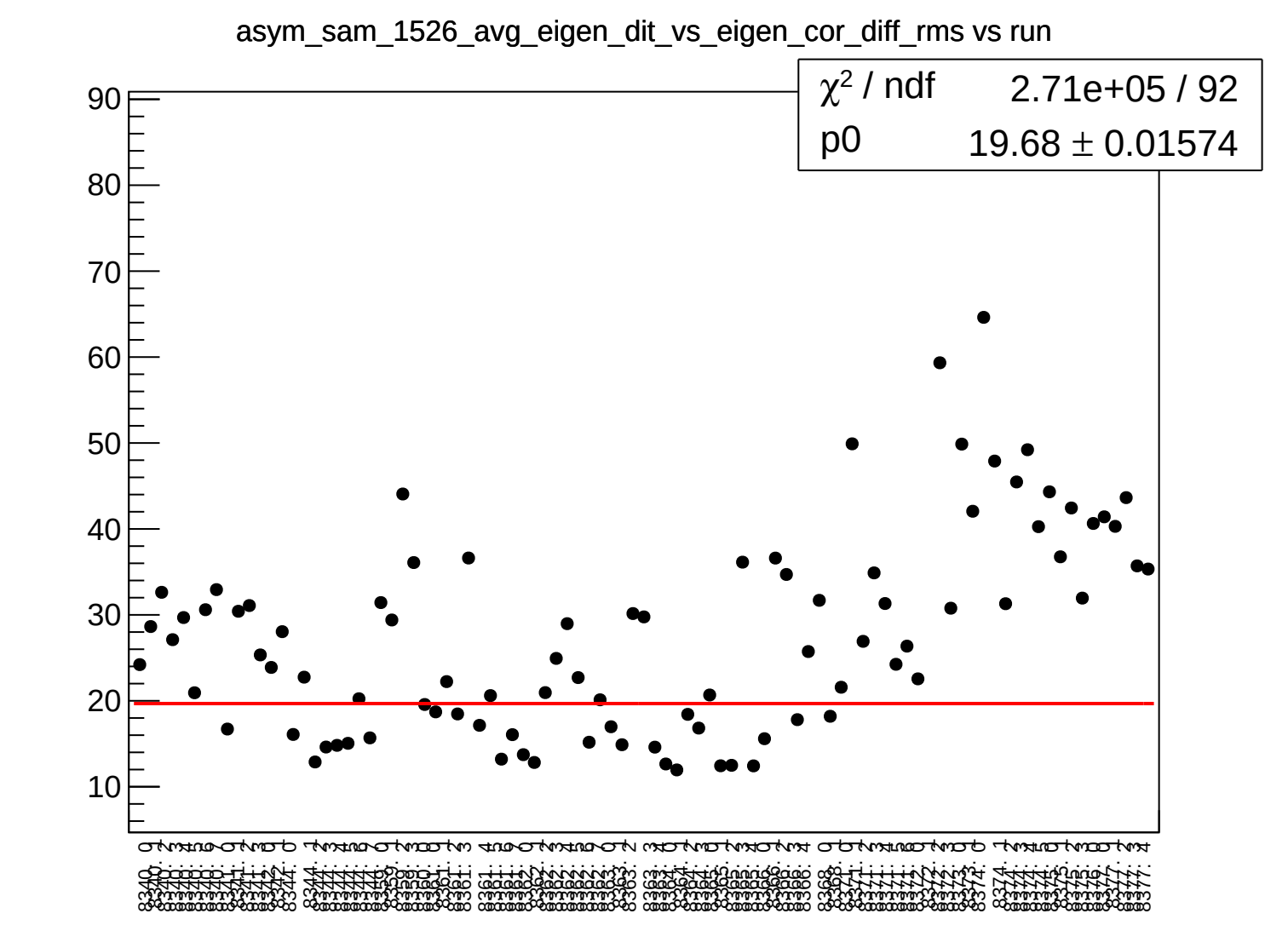

pull1D
Entries 93
Mean 0.02163
Std Dev 1.045

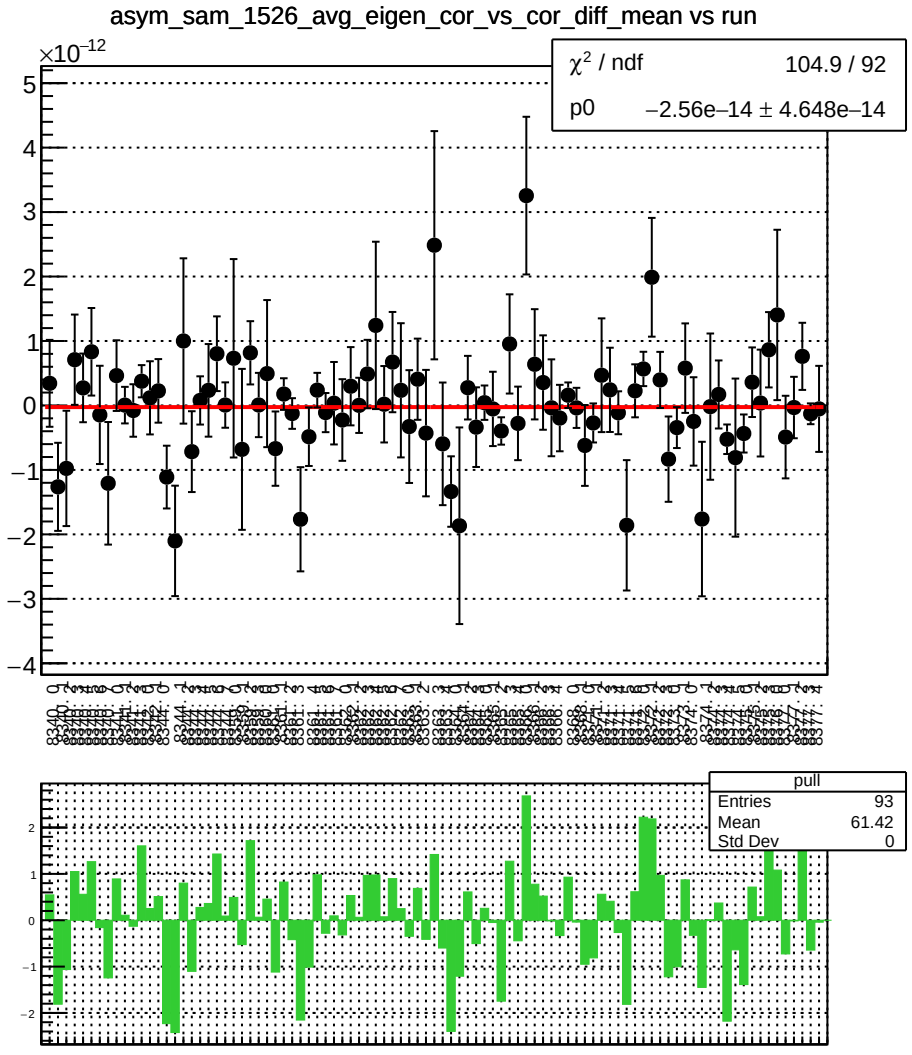

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.588e+04 / 92
p0 0.002311 ± 1.738e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

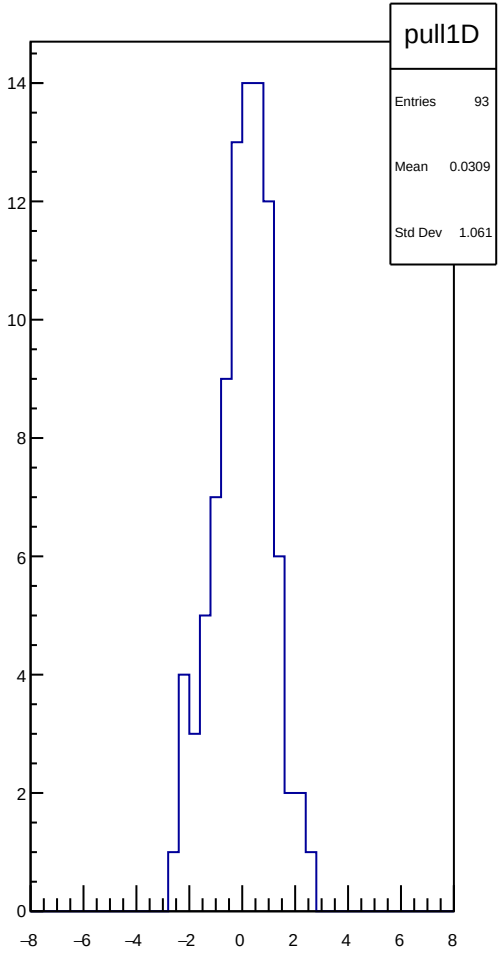

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.58 / 92
p0 −0.07936 ± 0.02226
pull
Entries 93
Mean 325.9
Std Dev 0
pull1D
Entries 93
Mean 0.0184
Std Dev 1.029

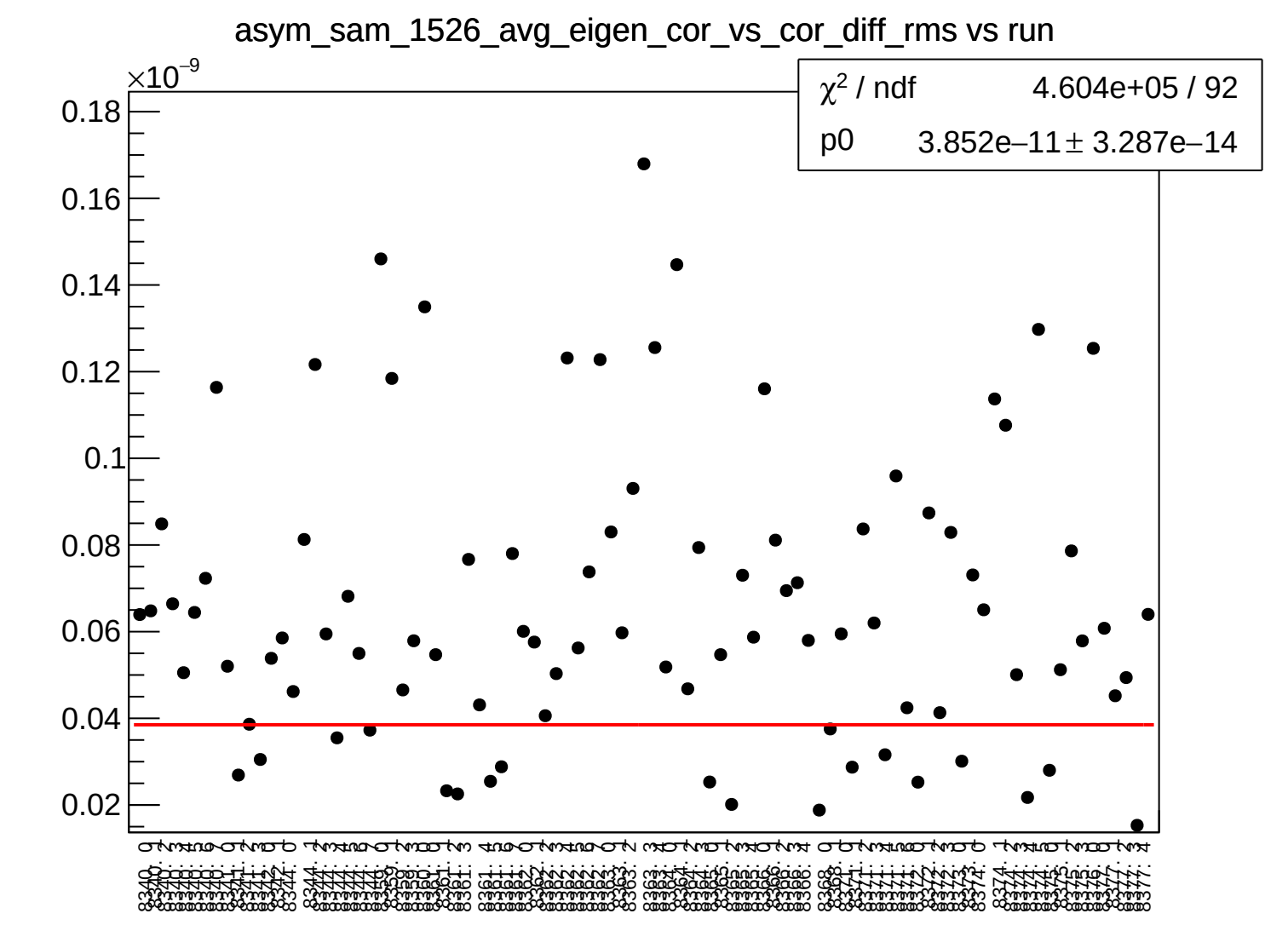

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.71e+05 / 92
p0 19.68 ± 0.01574
90
80
70
60
50
40
30
20
10

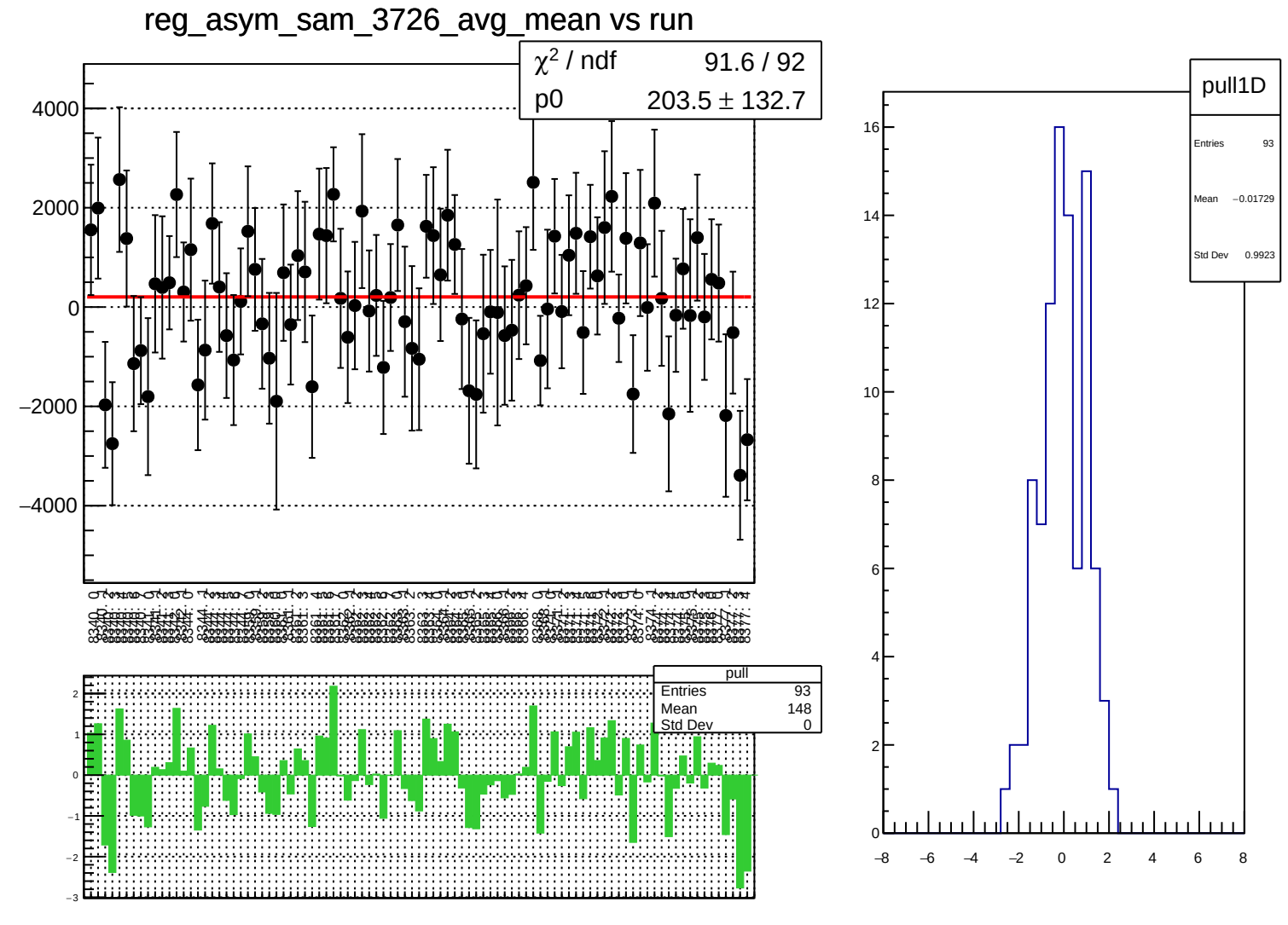

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.58 / 92
p0 −0.07936 ± 0.02226
pull
Entries 93
Mean 325.9
Std Dev 0
pull1D
Entries 93
Mean 0.0184
Std Dev 1.029

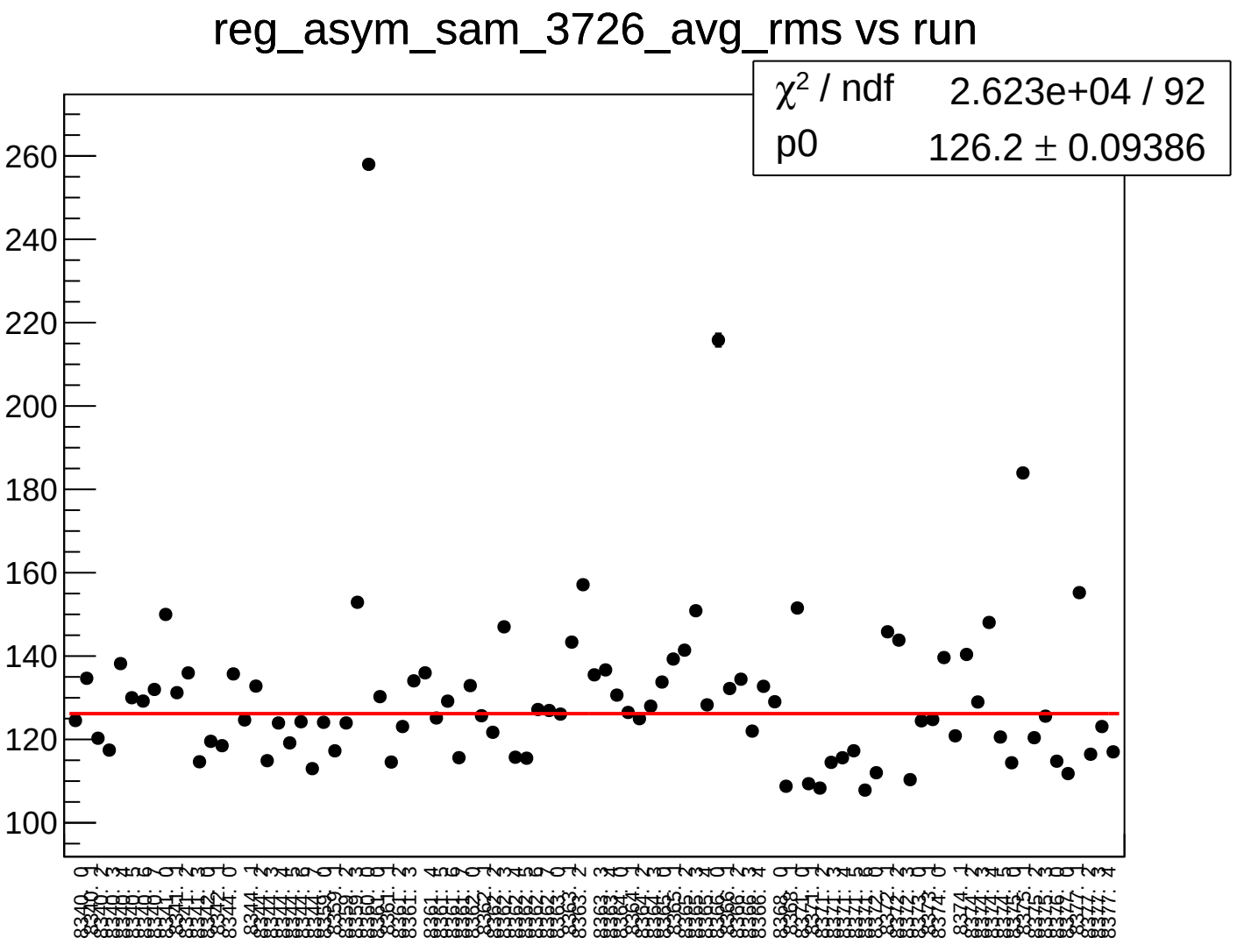

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.71e+05 / 92
p0 19.68 ± 0.01574
90
80
70
60
50
40
30
20
10

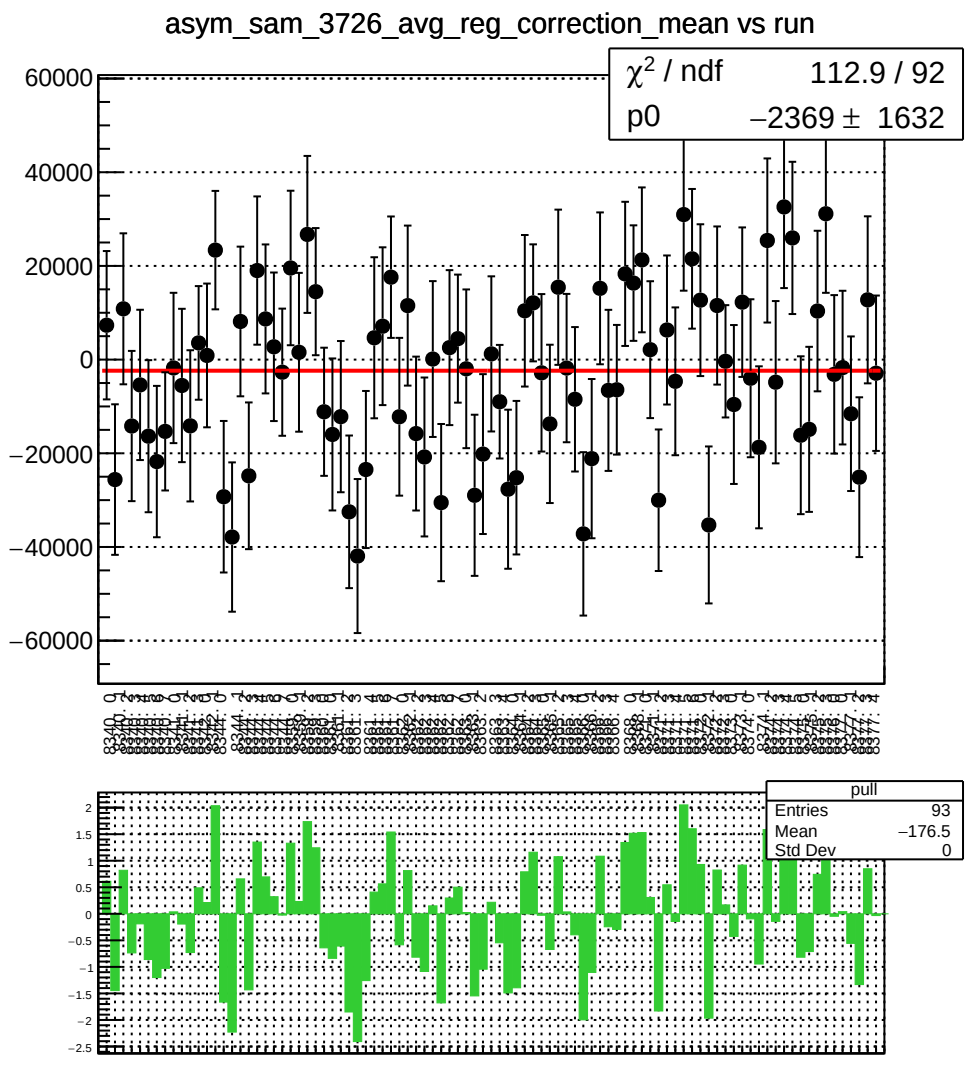

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.9 / 92
p0 −2.56e−14 ± 4.648e−14
pull
Entries 93
Mean 61.42
Std Dev 0

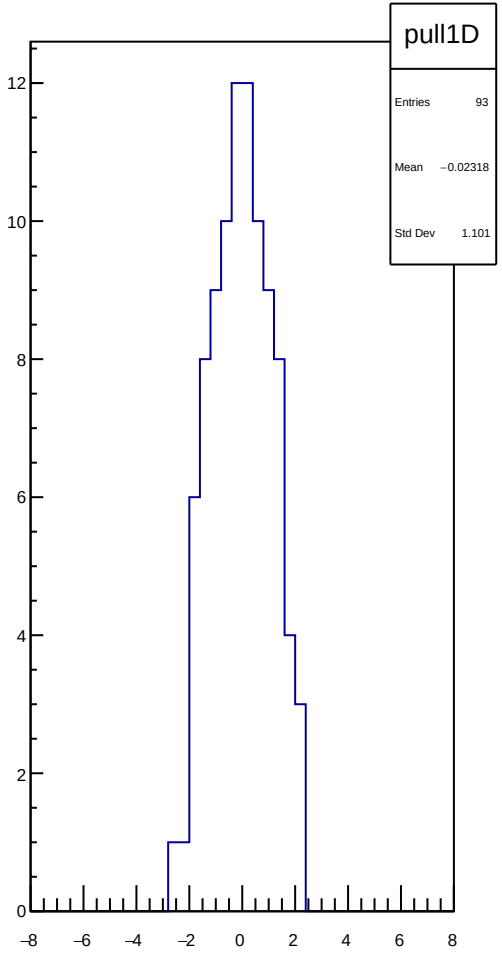

pull1D
Entries 93
Mean 0.0309
Std Dev 1.061

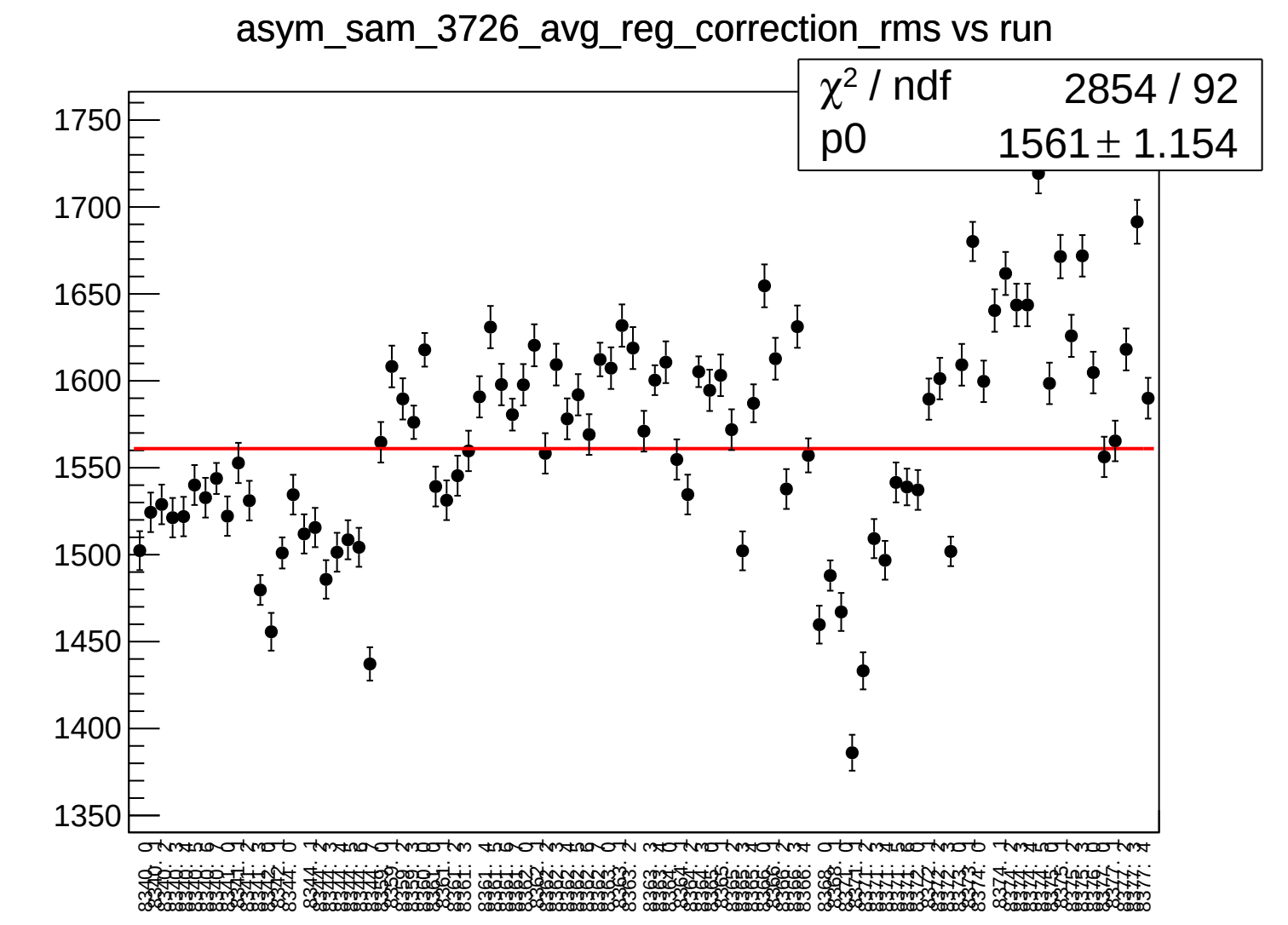

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.604e+05 / 92
p0 3.852e−11 ± 3.287e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

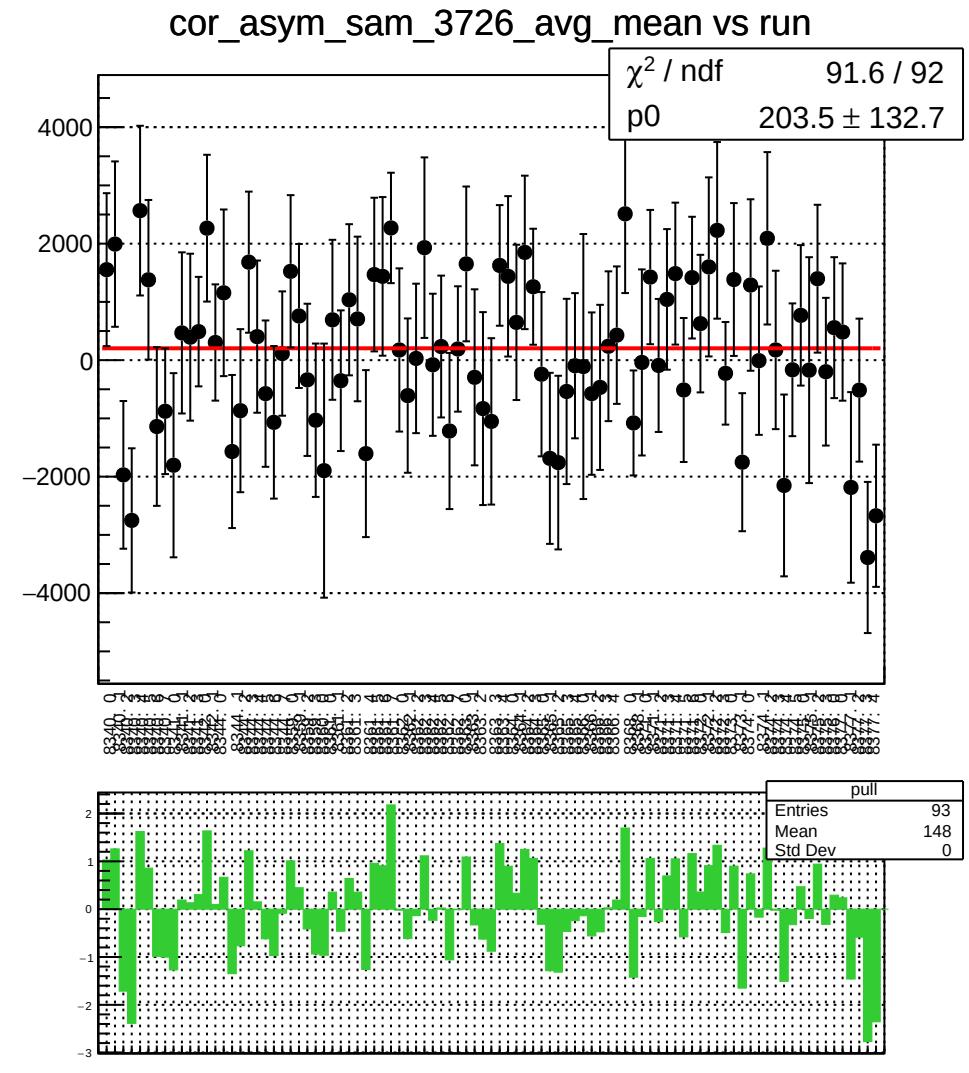

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 91.6 / 92
p0 203.5 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 148
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.01729
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

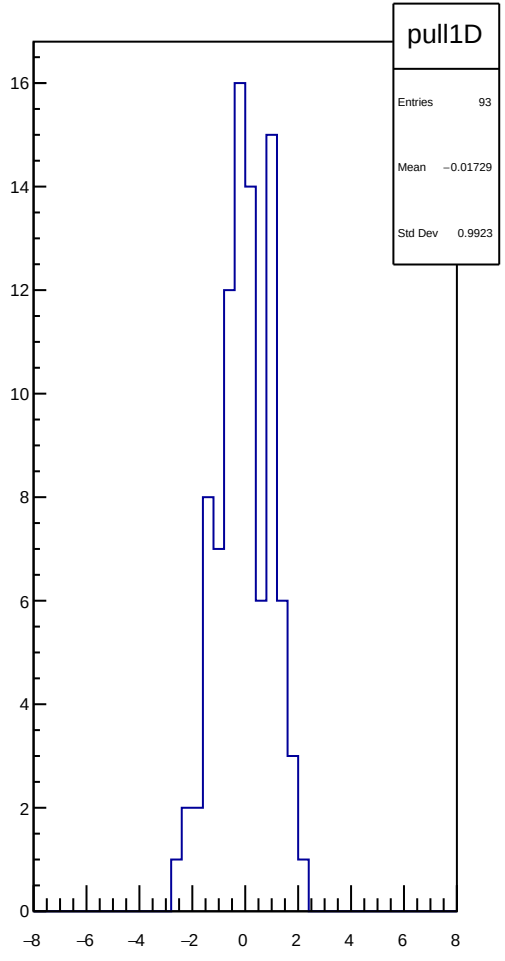

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.623e+04 / 92
p0 126.2 ± 0.09386
260
240
220
200
180
160
140
120
100

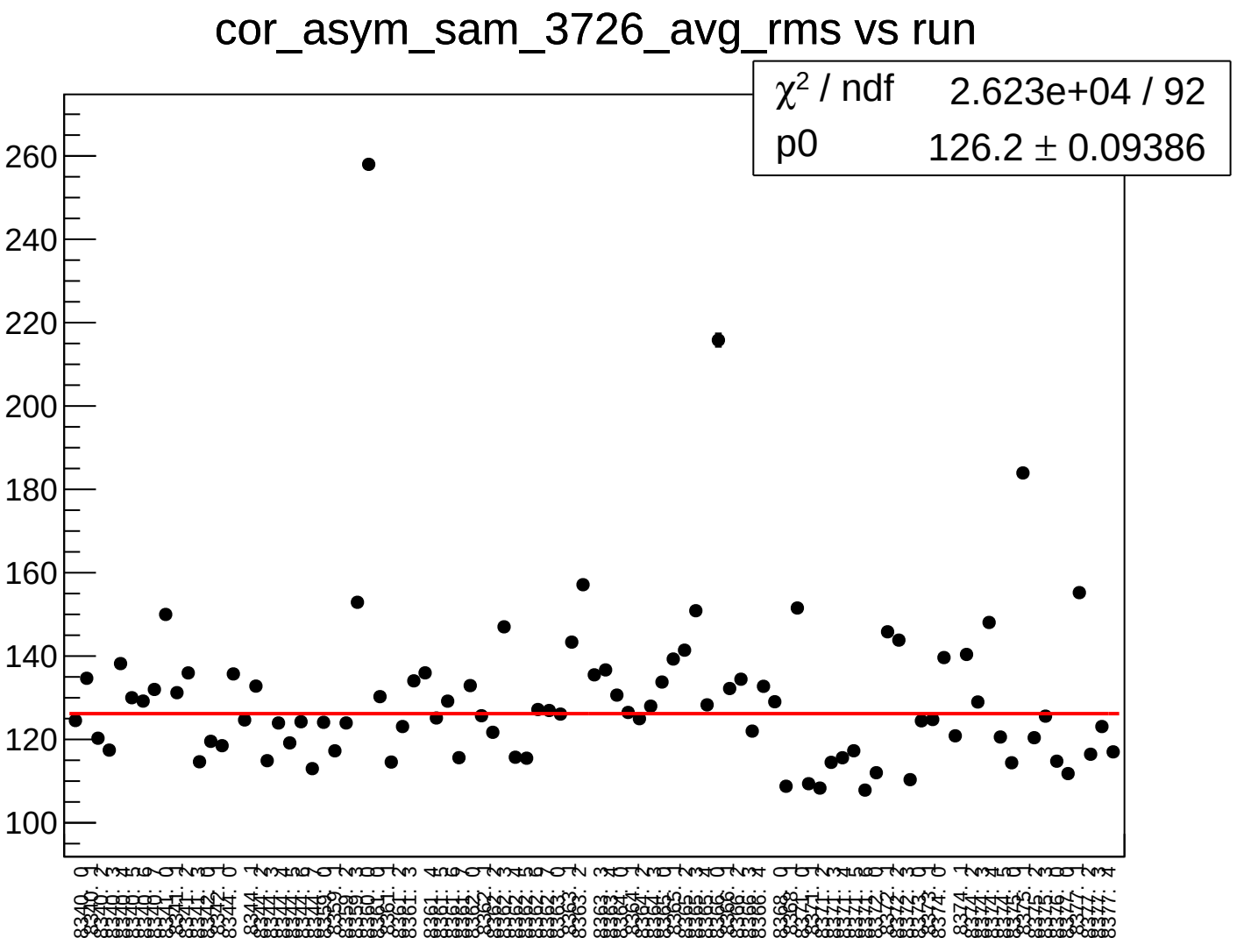

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −2369 ± 1632
pull
Entries 93
Mean −176.5
Std Dev 0

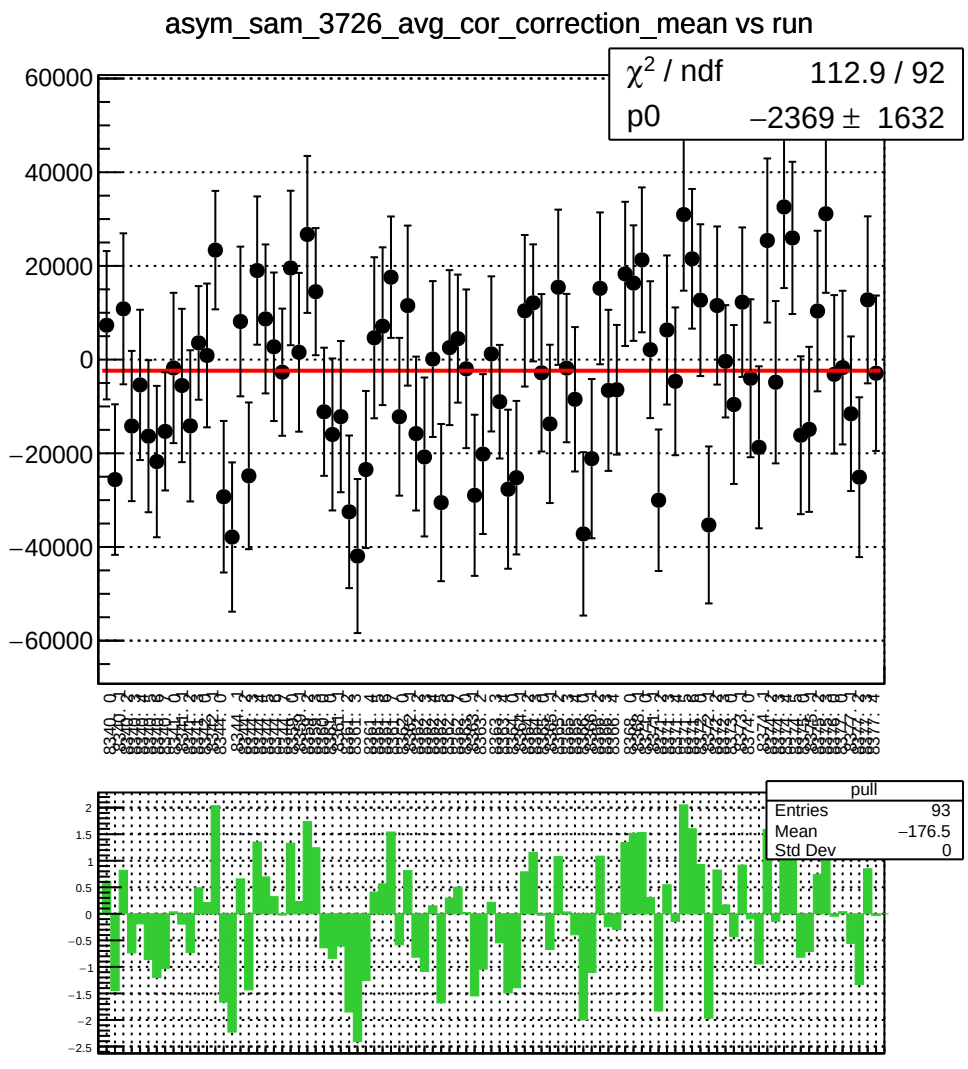

pull1D
Entries 93
Mean −0.02318
Std Dev 1.101

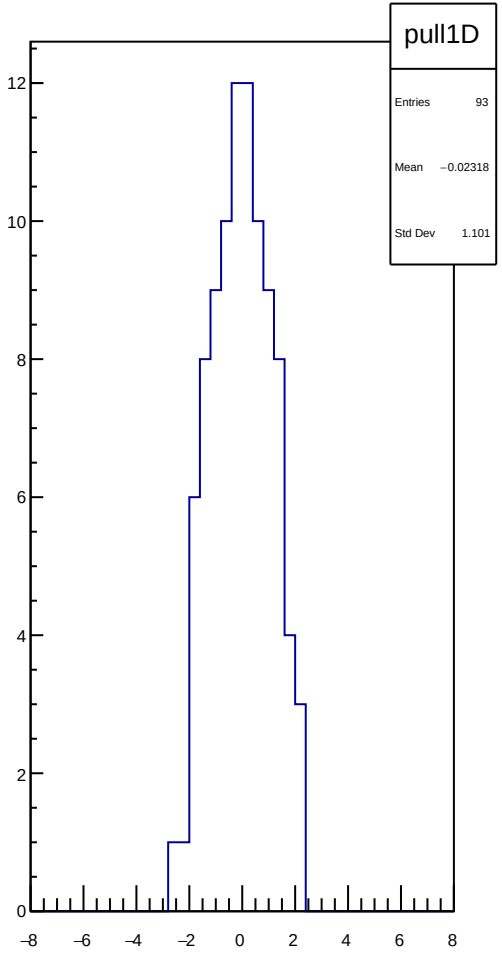

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 2854 / 92
p0 1561 ± 1.154
1750
1700
1650
1600
1550
1500
1450
1400
1350

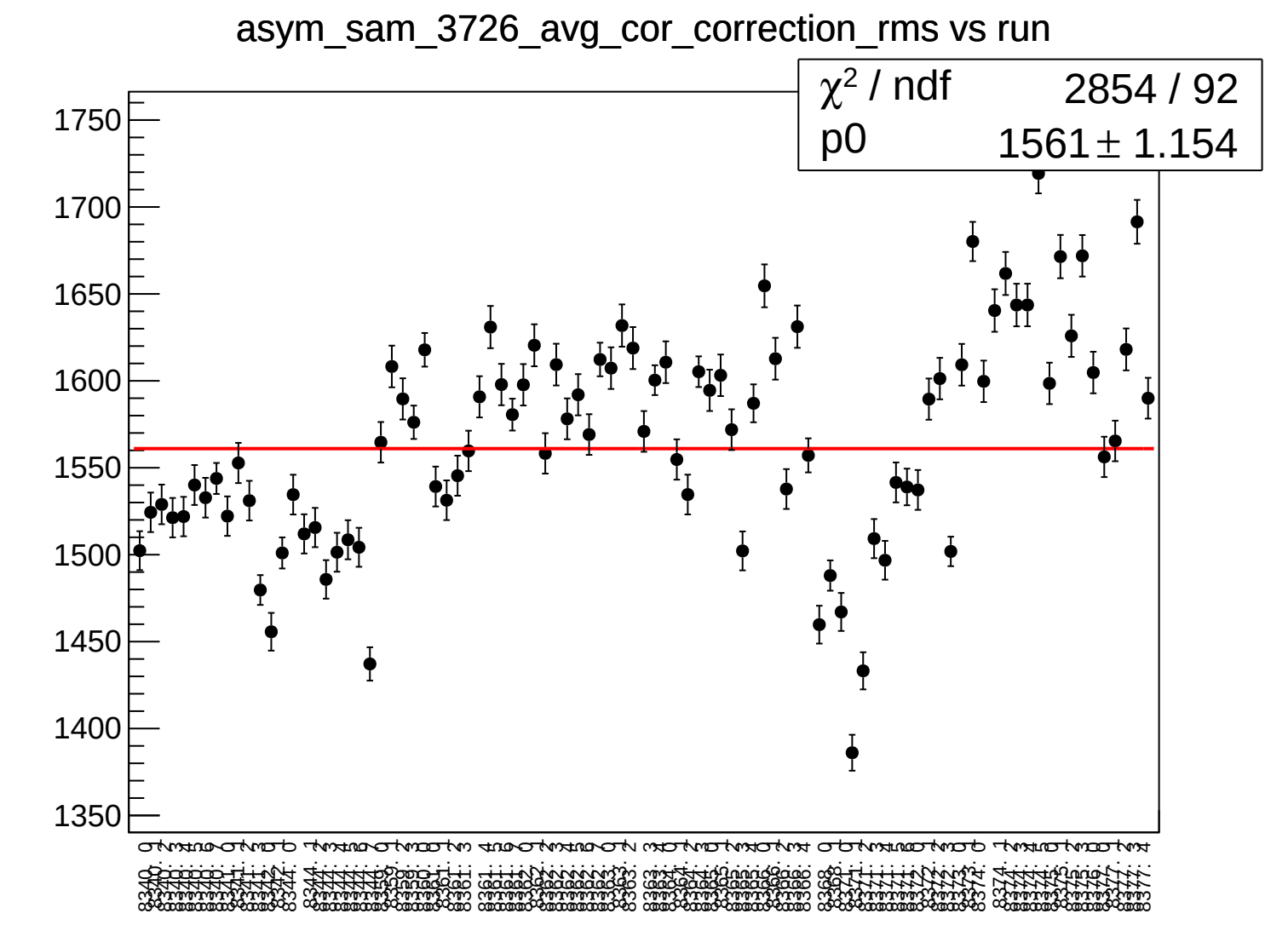

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.6 / 92
p0 203.5 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 148
Std Dev 0
2
1
0
−1
−2
−3

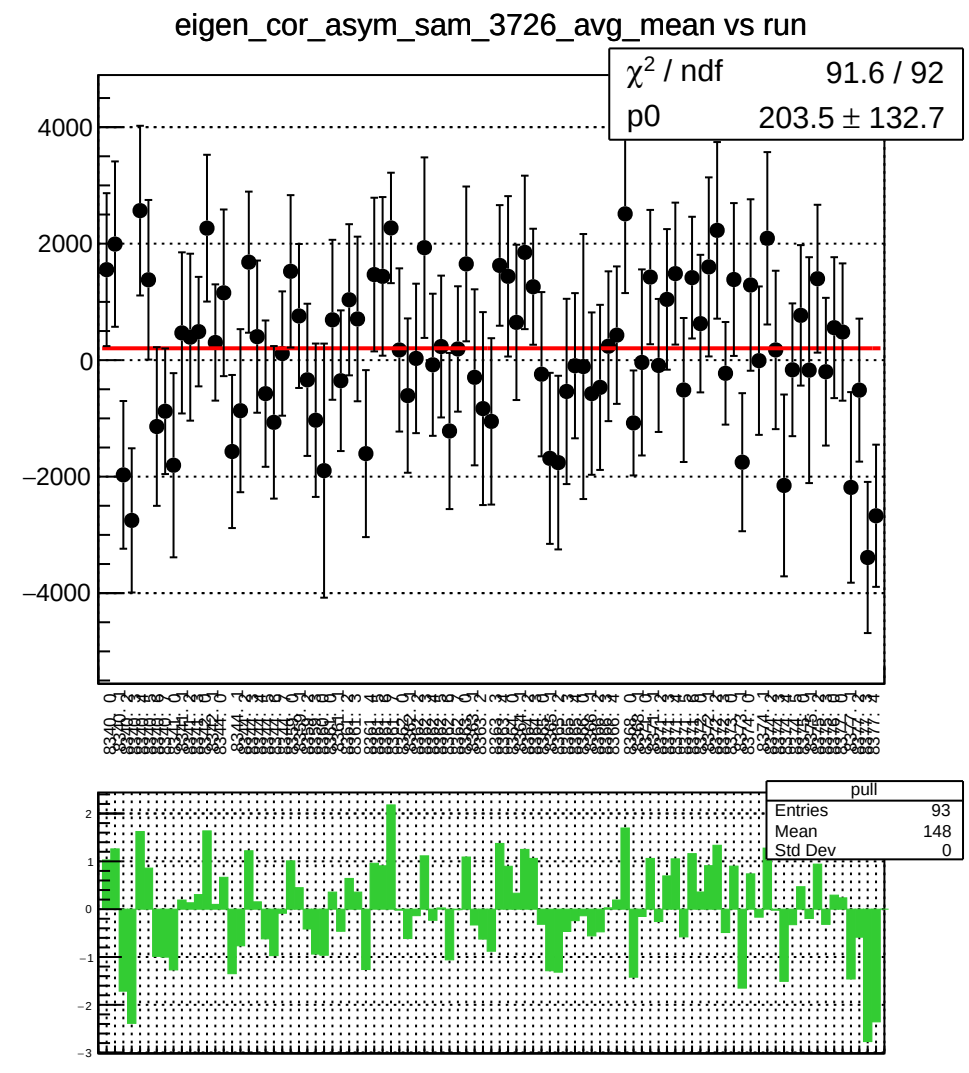

pull1D
Entries 93
Mean −0.01729
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

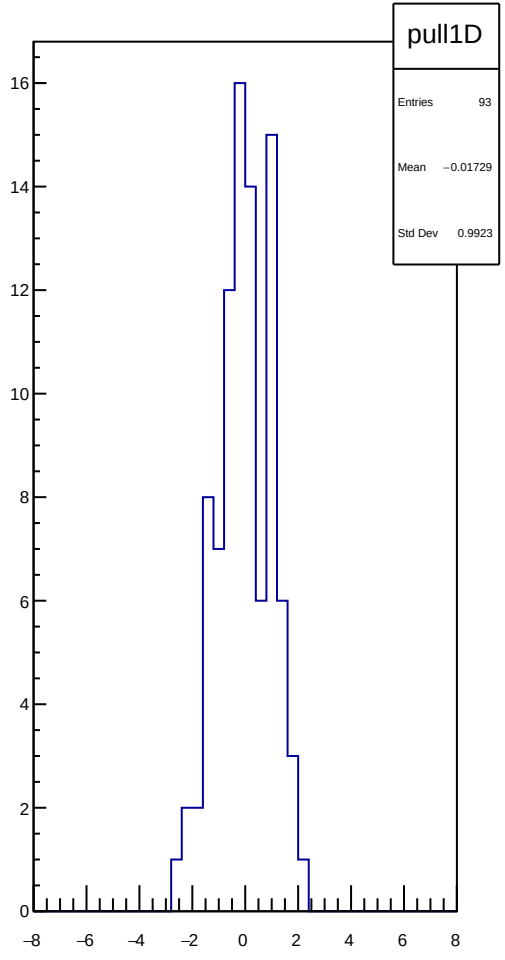

cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.623e+04 / 92
p0 126.2 ± 0.09386
260
240
220
200
180
160
140
120
100

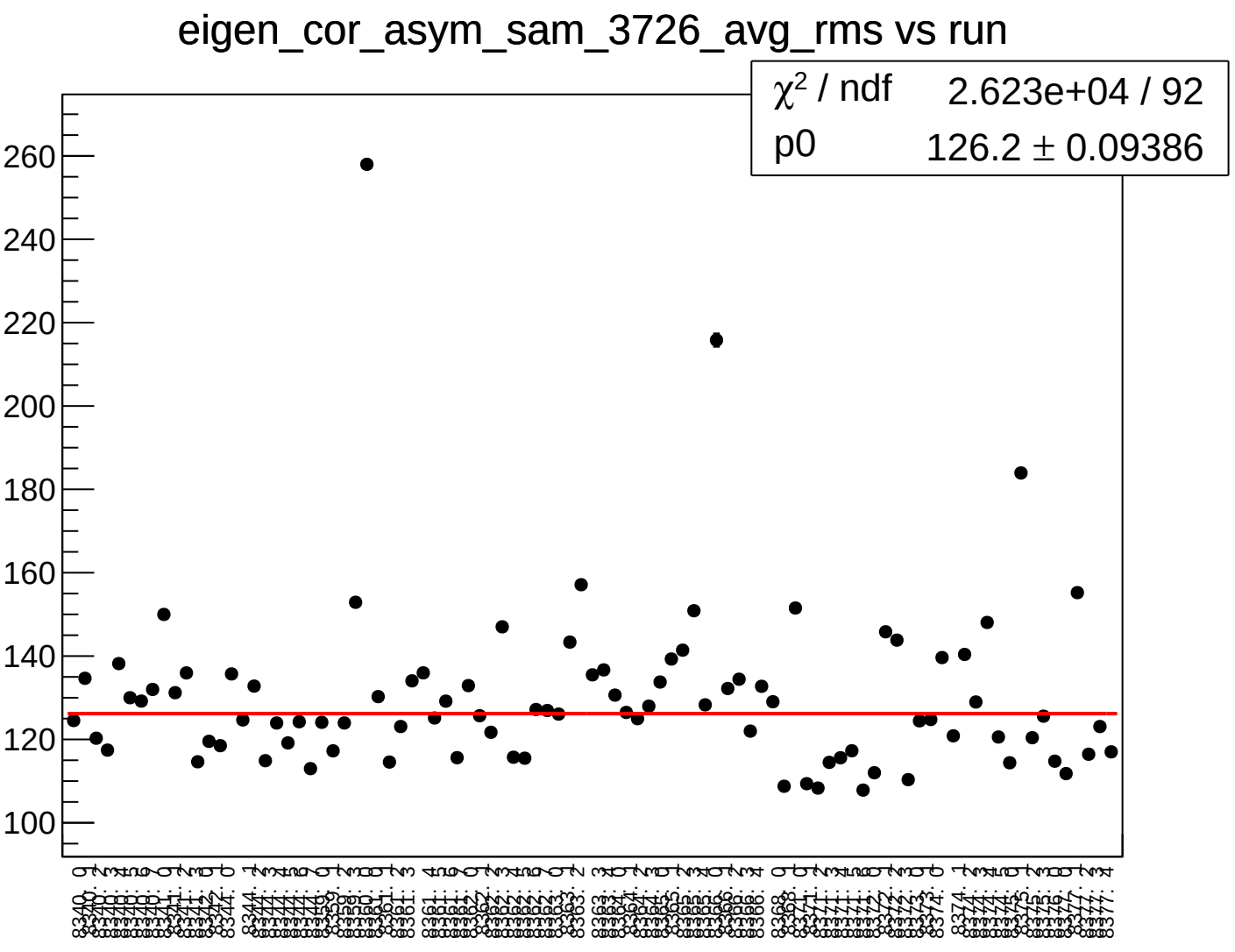

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −2369 ± 1632
pull
Entries 93
Mean −176.5
Std Dev 0

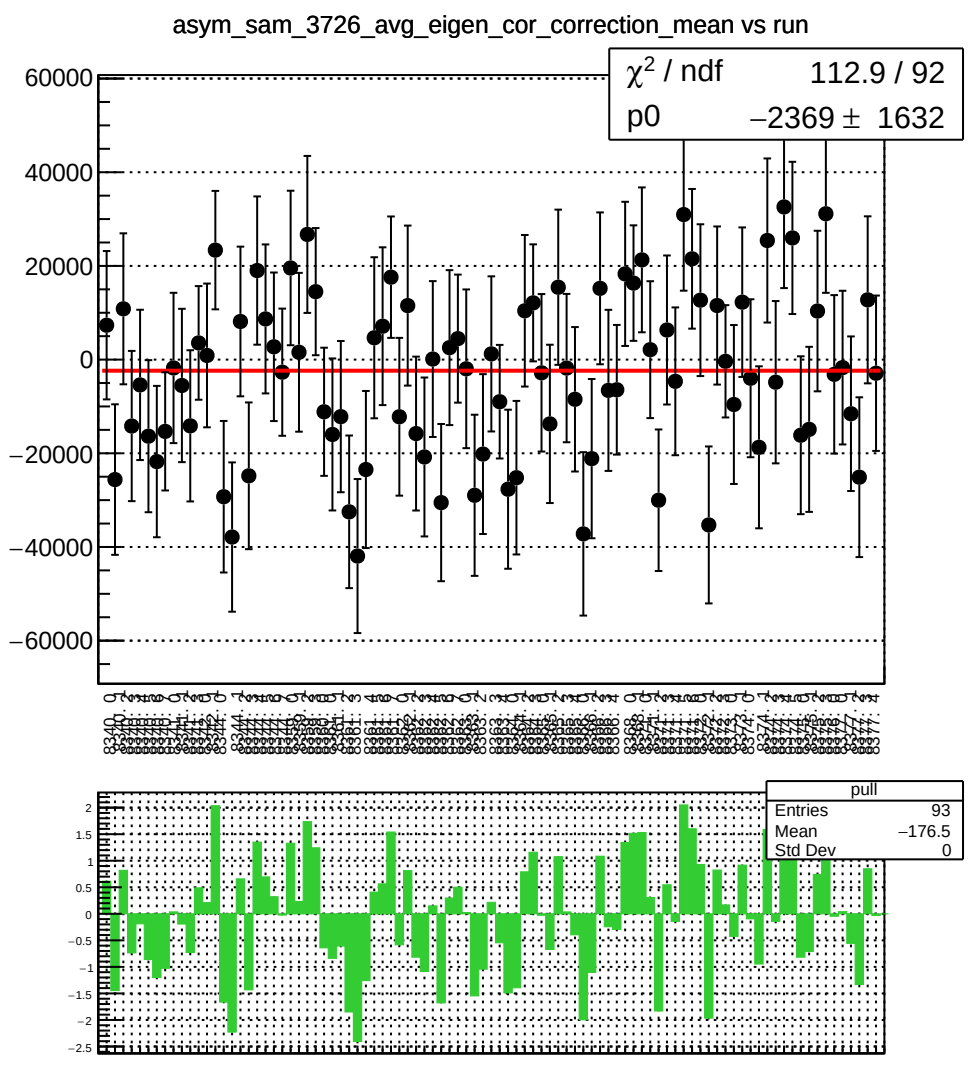

pull1D
Entries 93
Mean −0.02318
Std Dev 1.101

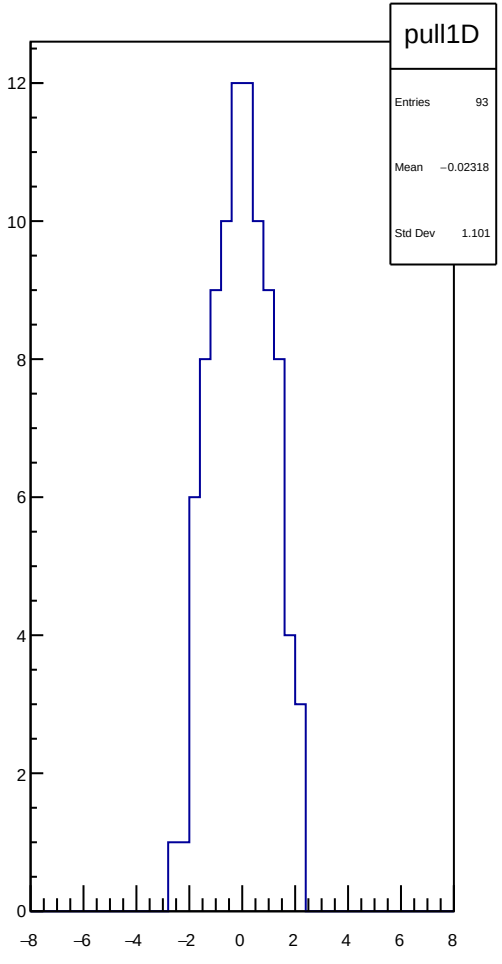

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 2854 / 92
p0 1561 ± 1.154
1750
1700
1650
1600
1550
1500
1450
1400
1350

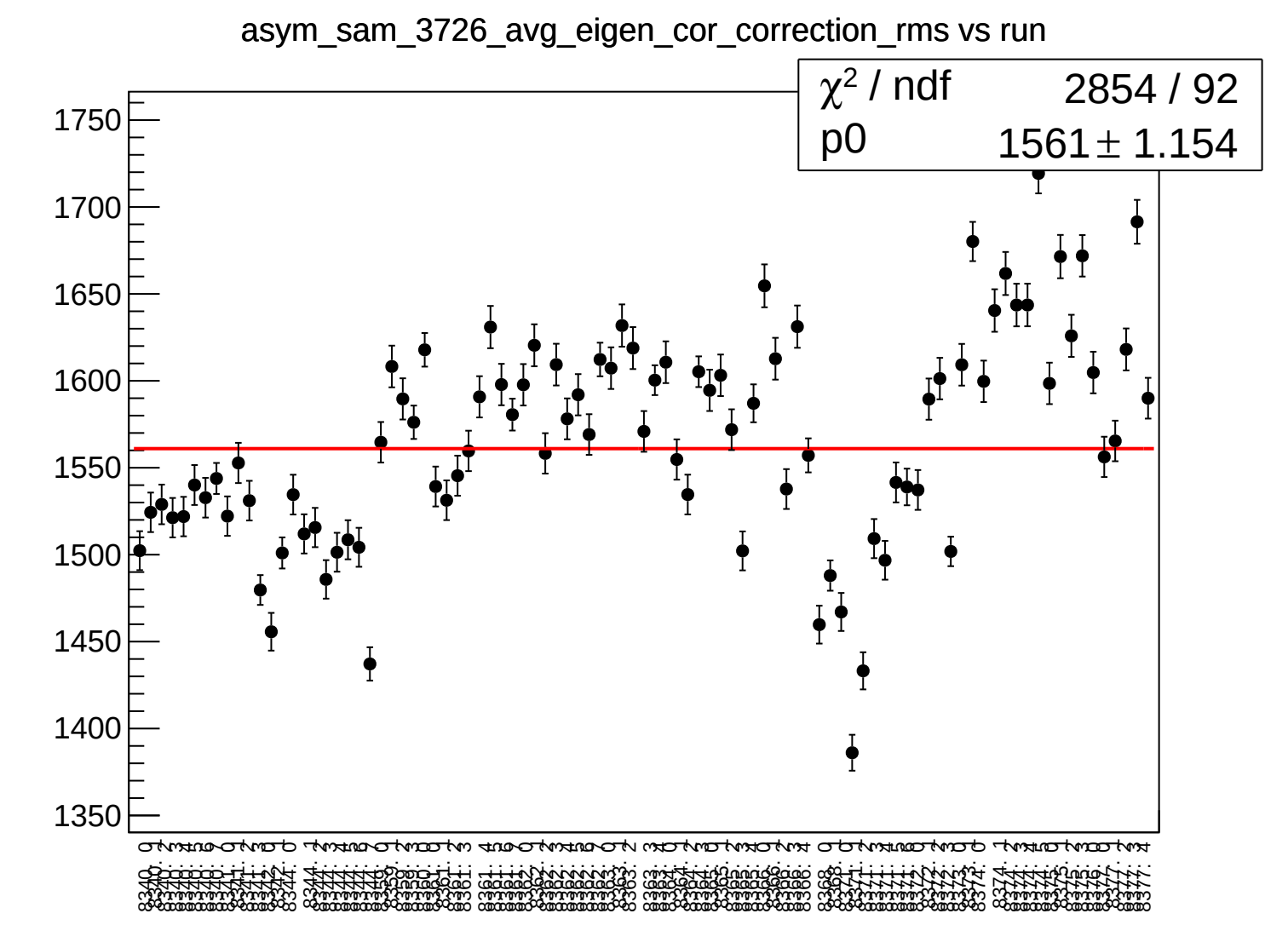

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 91.6 / 92
p0 203.5 ± 132.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 148
Std Dev 0
2
1
0
−1
−2
−3

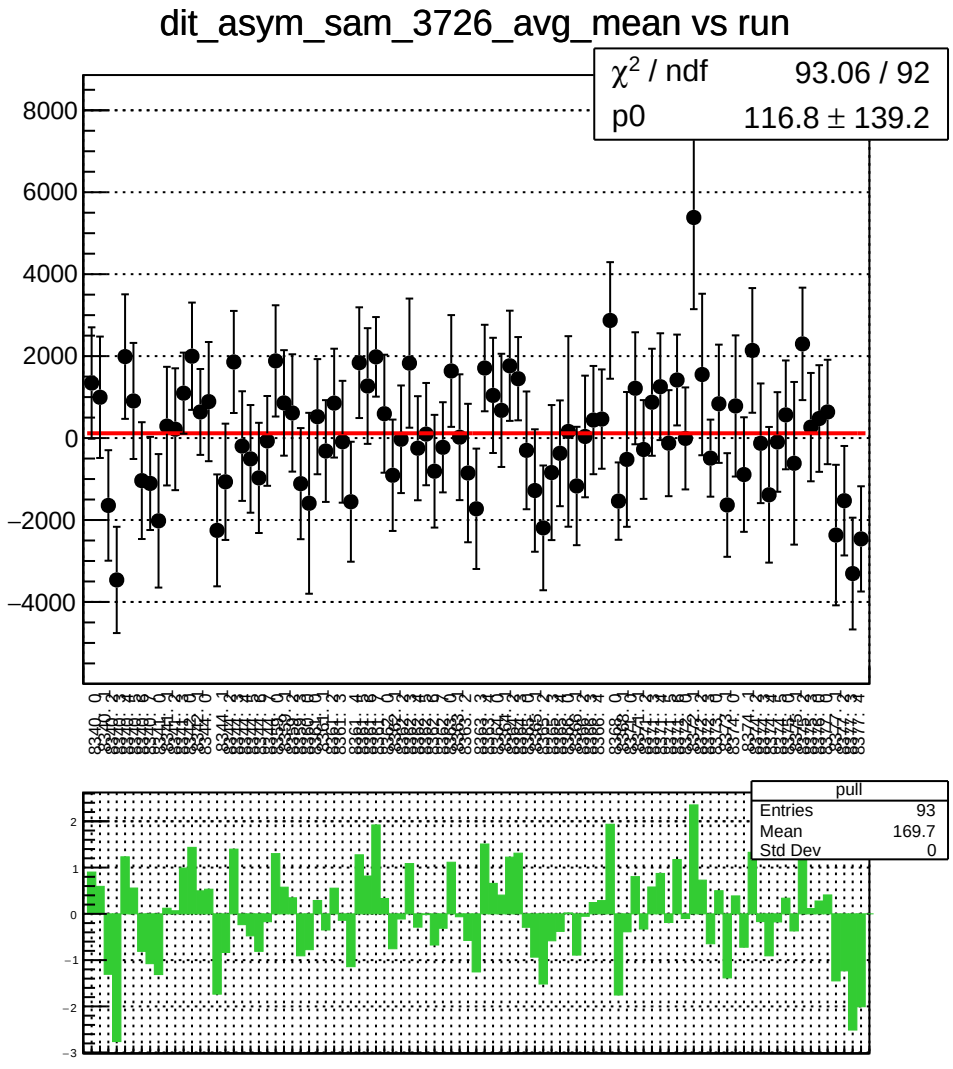

pull1D
Entries 93
Mean −0.01729
Std Dev 0.9923
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

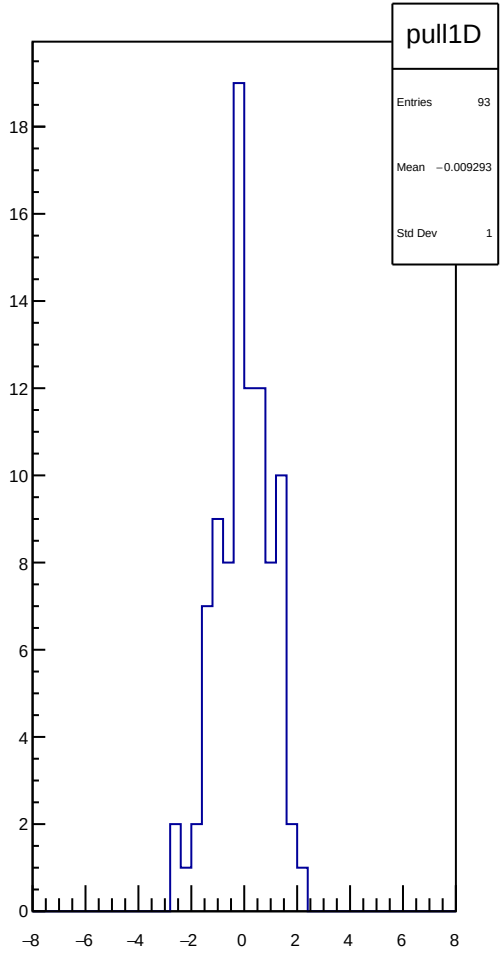

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 2.623e+04 / 92
p0 126.2 ± 0.09386
260
240
220
200
180
160
140
120
100

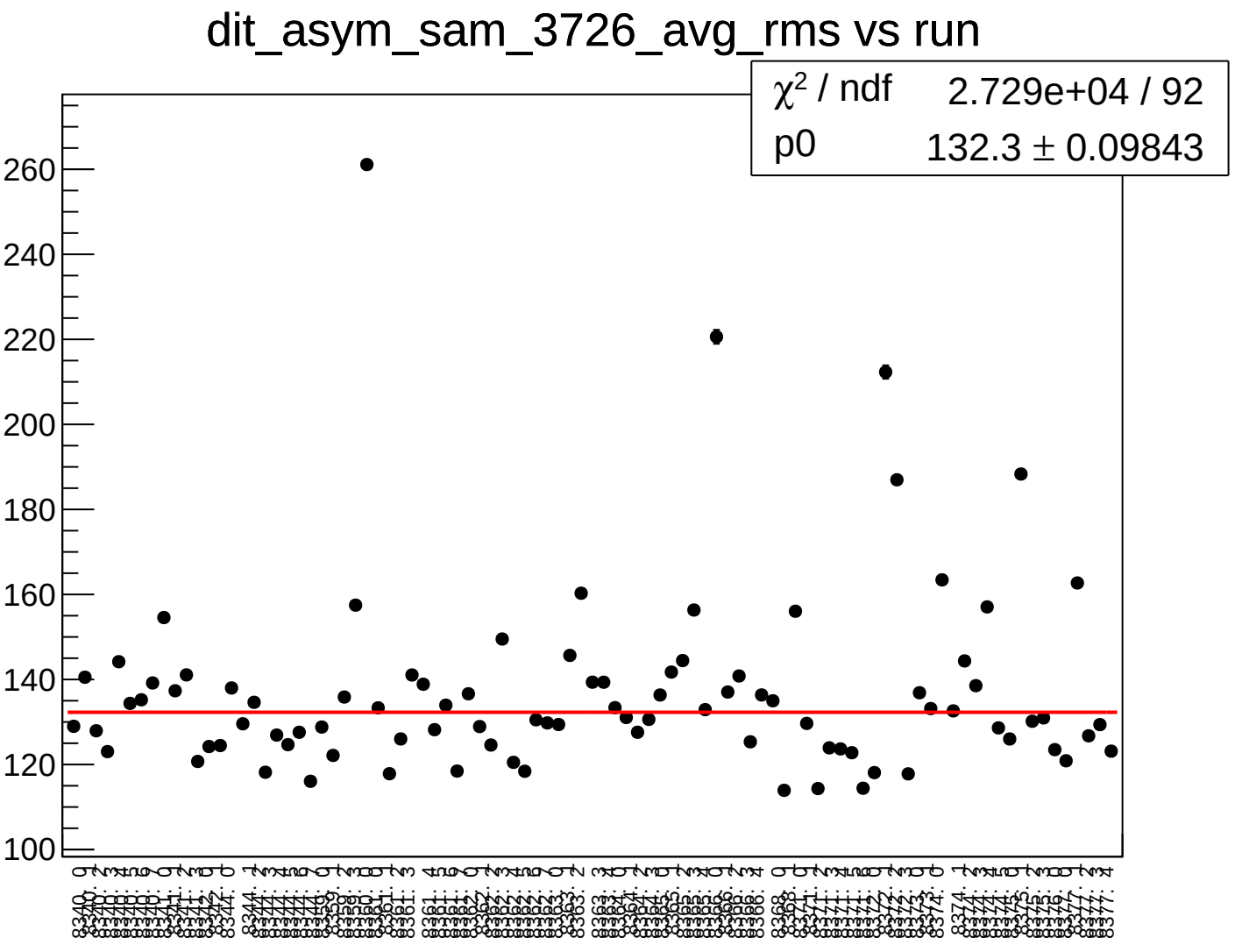

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 92
p0 −2369 ± 1632
pull
Entries 93
Mean −176.5
Std Dev 0

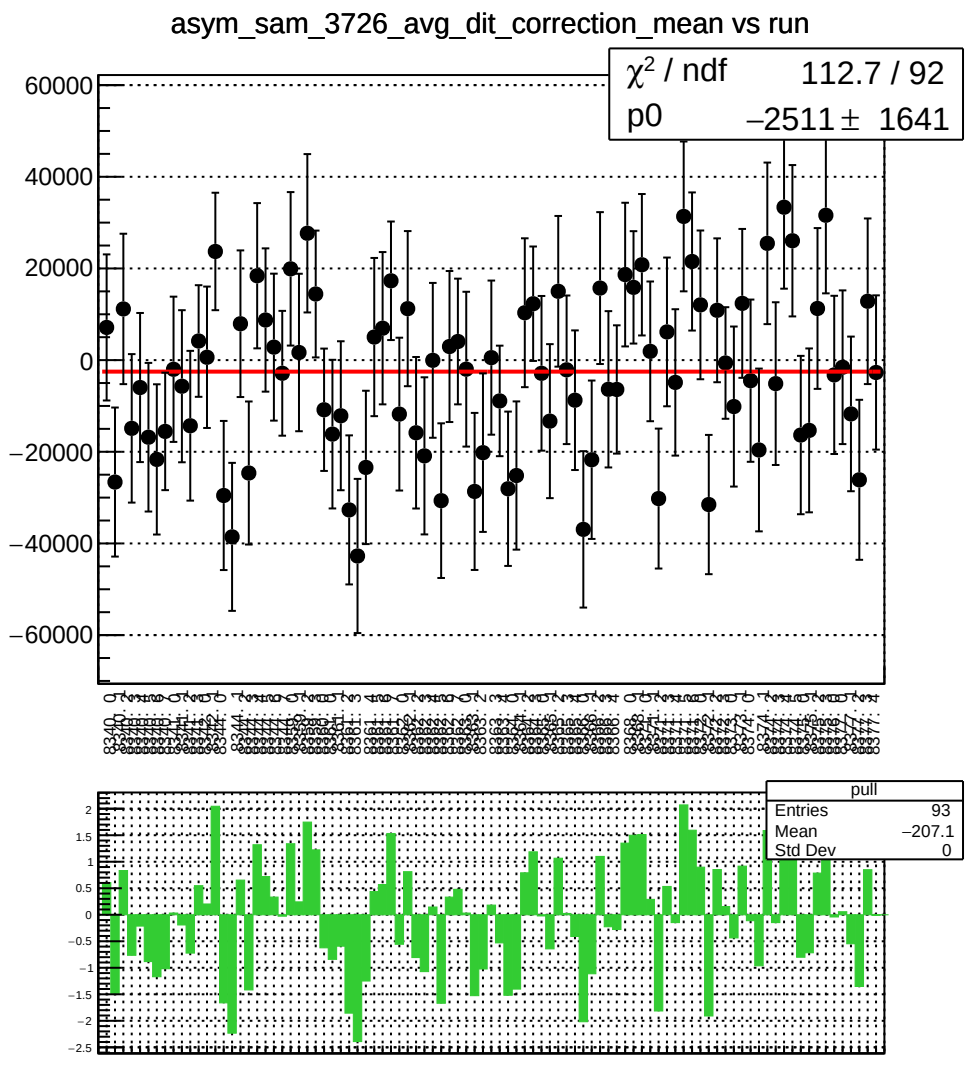

pull1D
Entries 93
Mean −0.02318
Std Dev 1.101

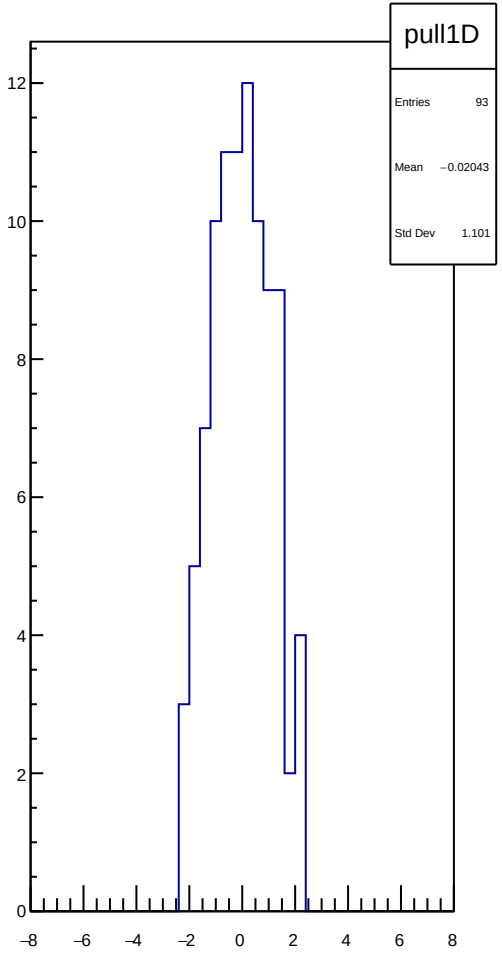

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 2854 / 92
p0 1561 ± 1.154
1750
1700
1650
1600
1550
1500
1450
1400
1350

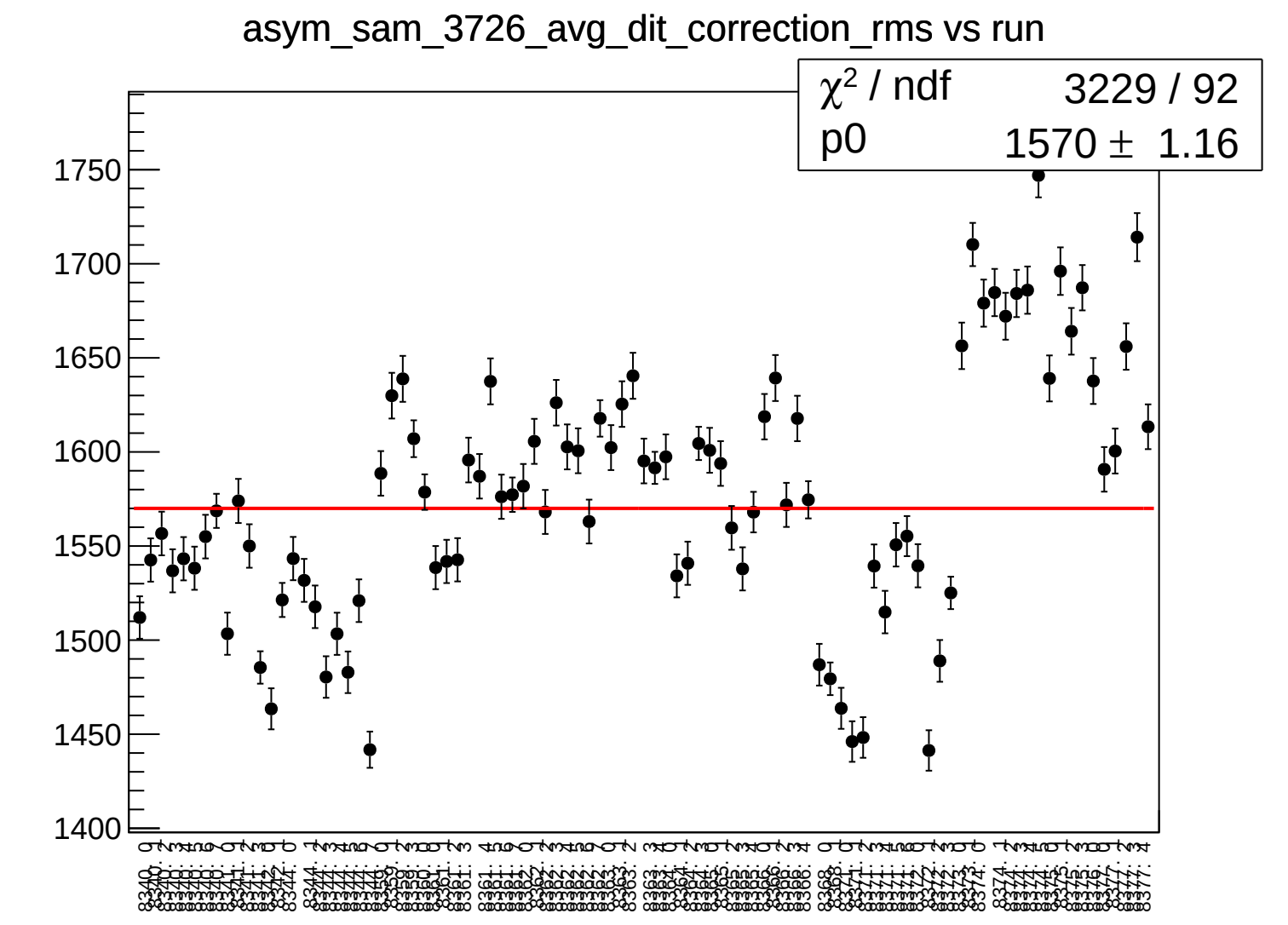

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 93.06 / 92
p0 116.8 ± 139.2
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 169.7
Std Dev 0
2
1
0
−1
−2
−3

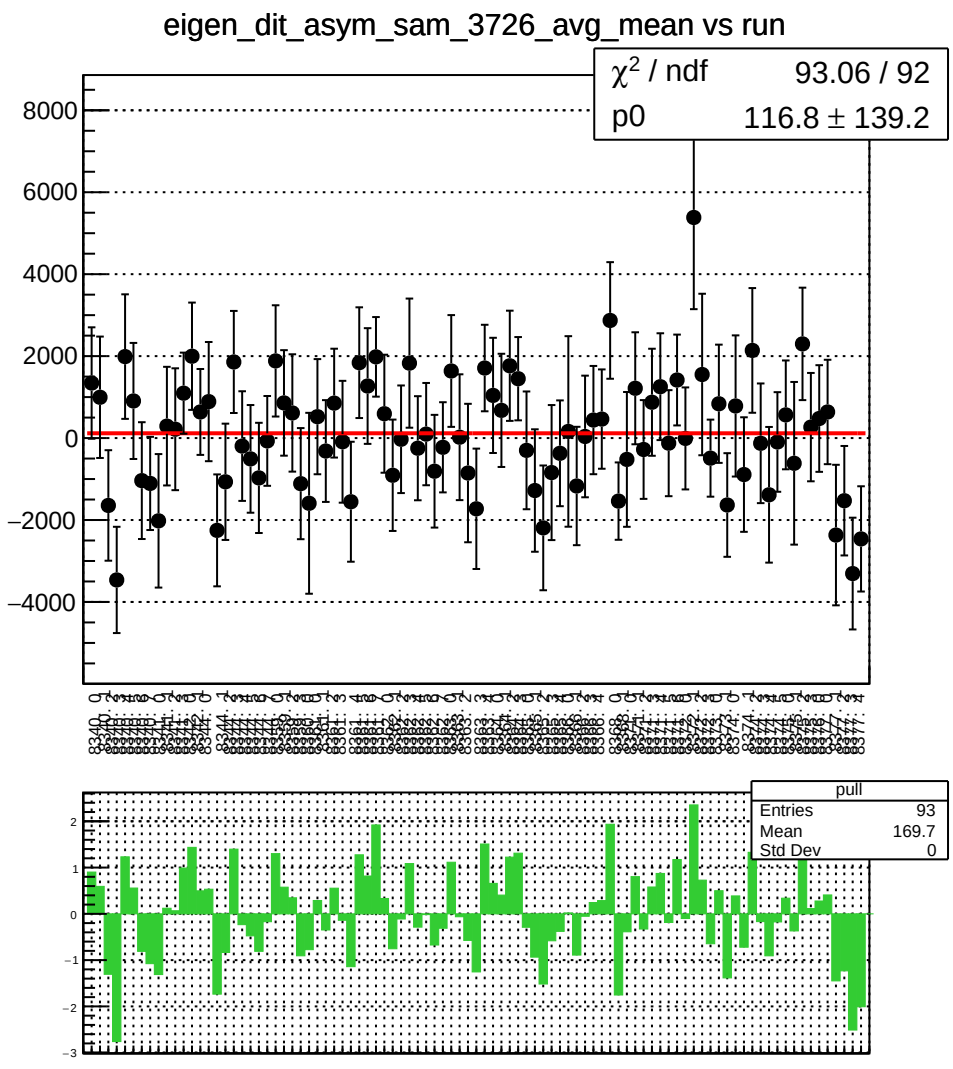

pull1D
Entries 93
Mean −0.009293
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

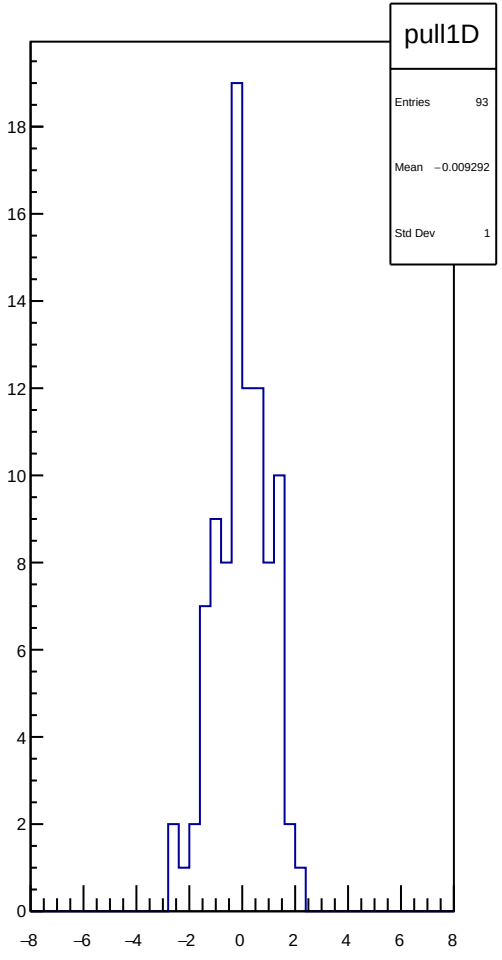

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 2.729e+04 / 92
p0 132.3 ± 0.09843
260
240
220
200
180
160
140
120
100

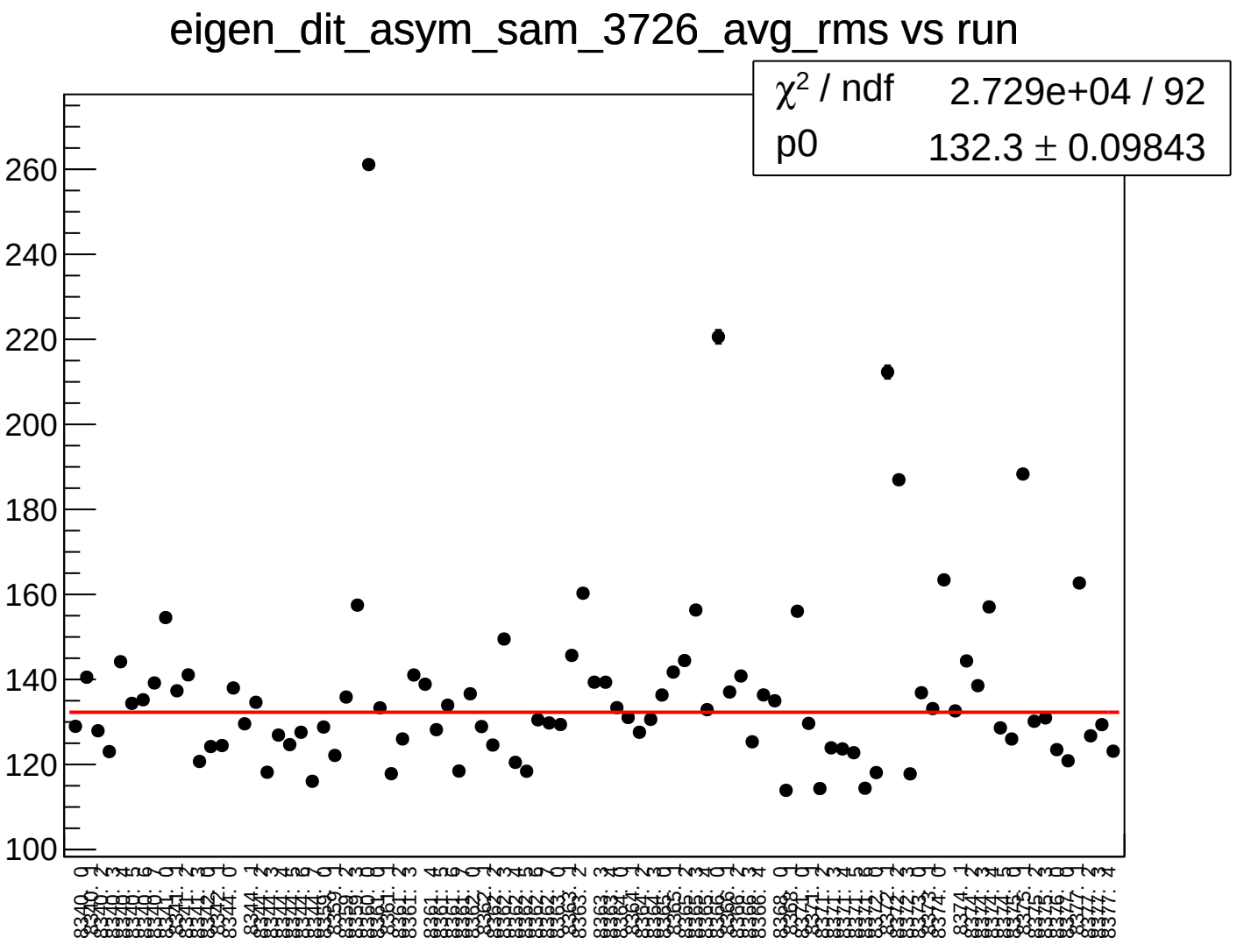

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2511 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −207.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

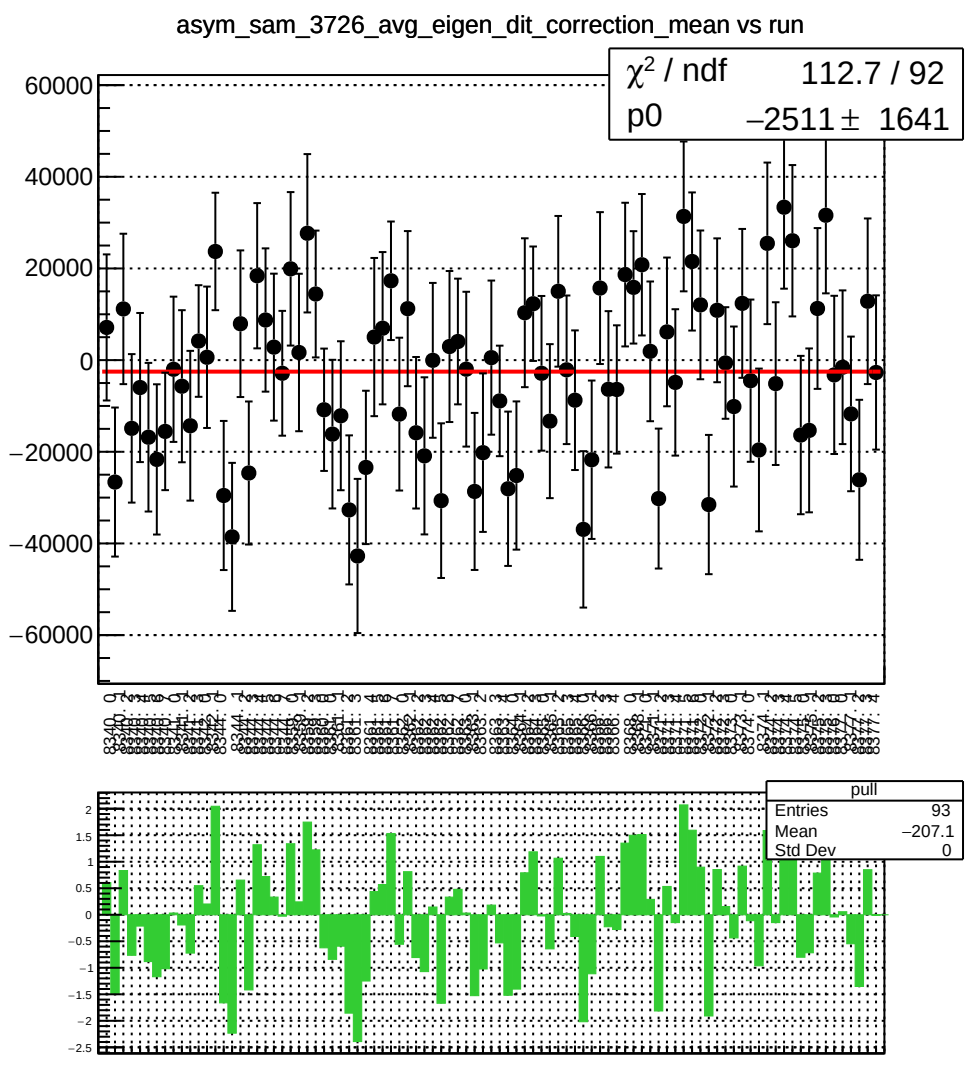

pull1D
Entries 93
Mean −0.02043
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

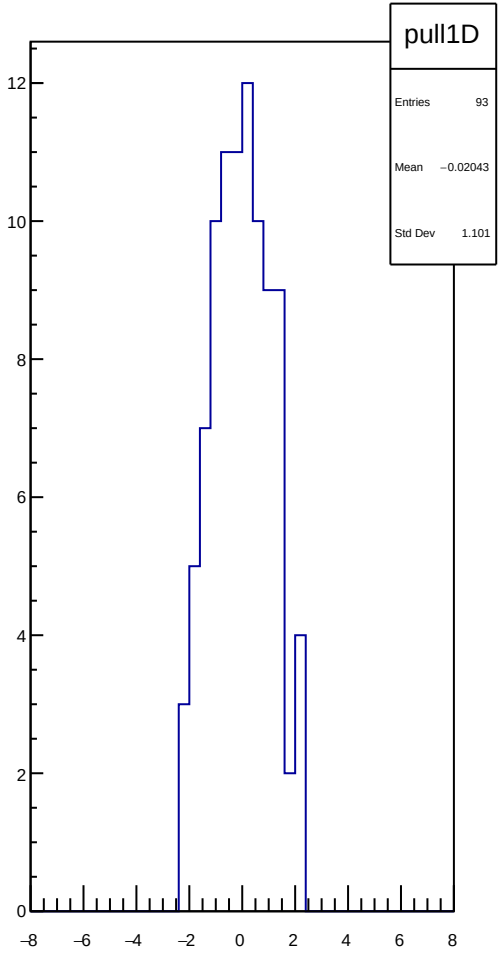

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3229 / 92
p0 1570 ± 1.16
1750
1700
1650
1600
1550
1500
1450
1400

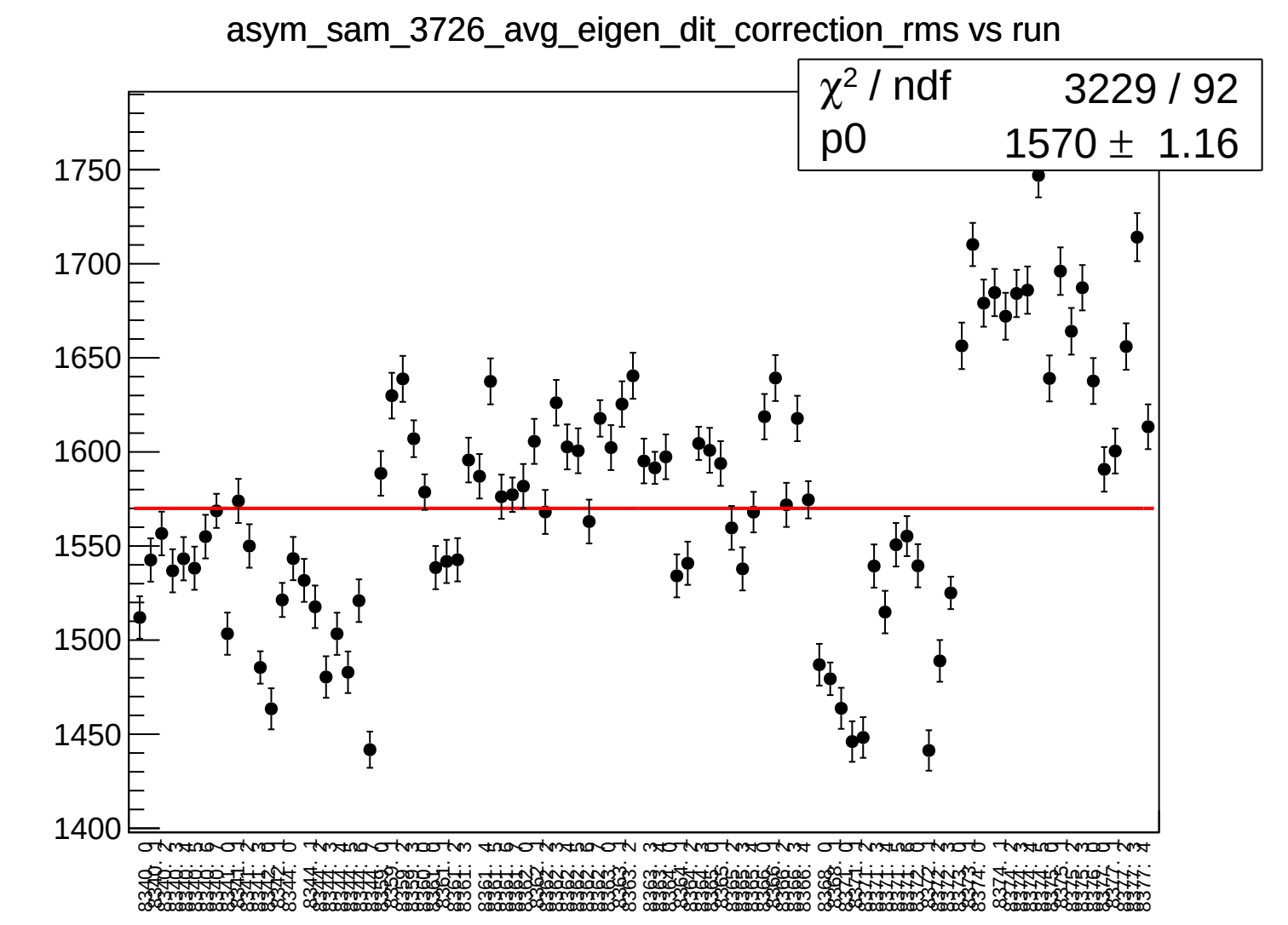

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 93.06 / 92
p0 116.8 ± 139.2
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 169.7
Std Dev 0
2
1
0
−1
−2
−3

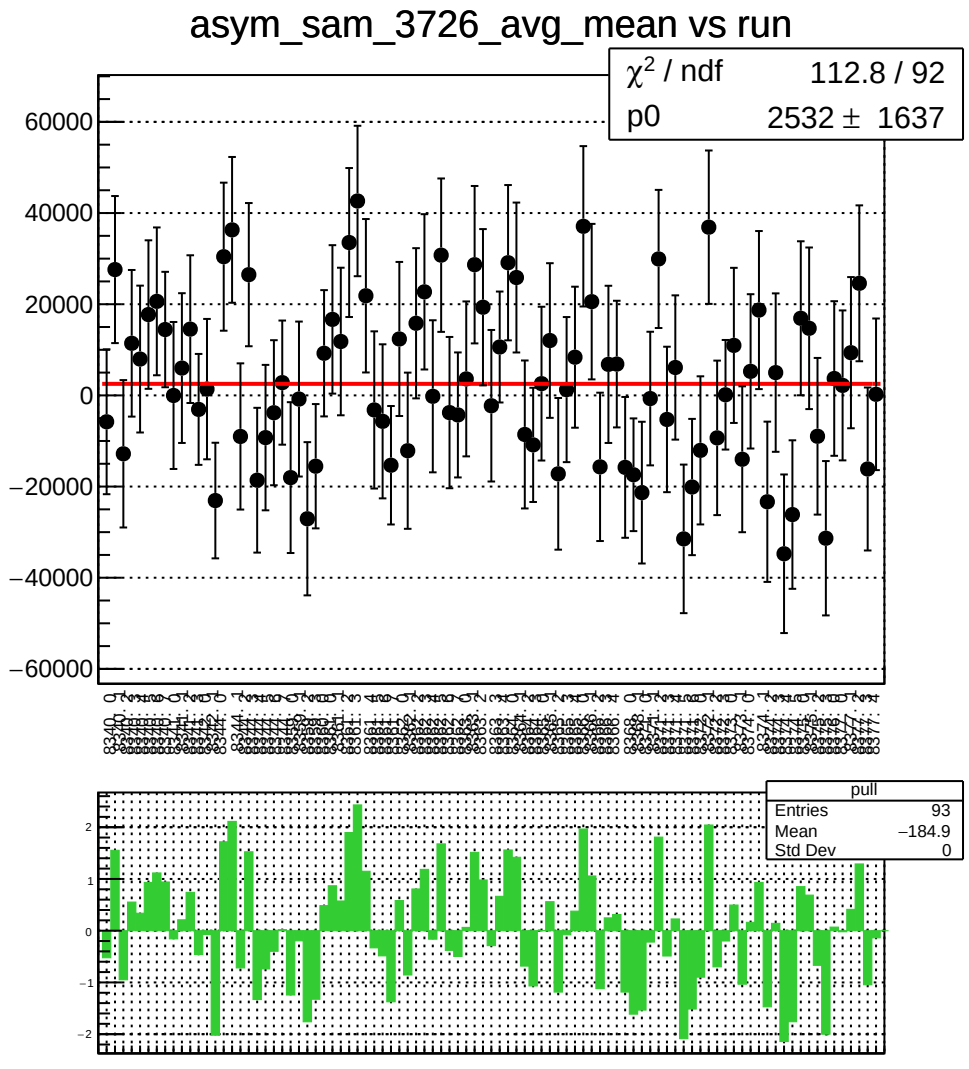

pull1D
Entries 93
Mean −0.009292
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

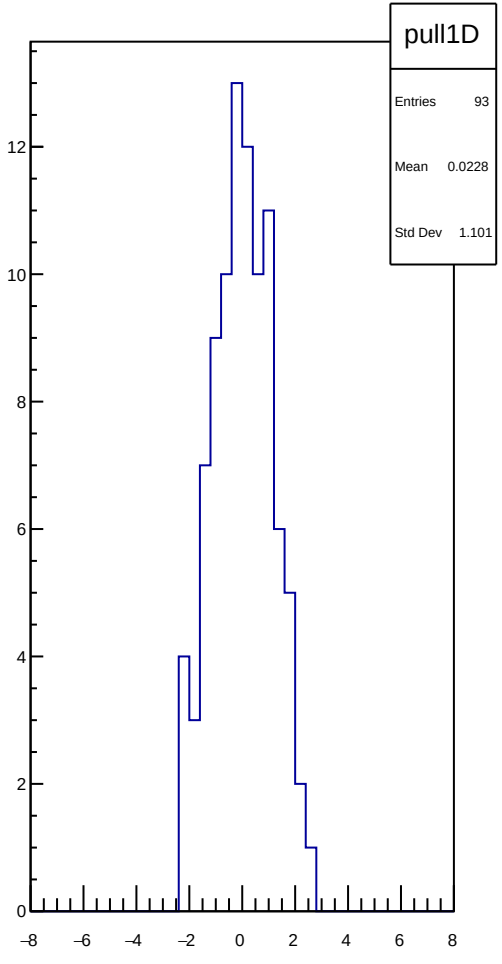

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.729e+04 / 92
p0 132.3 ± 0.09843
260
240
220
200
180
160
140
120
100

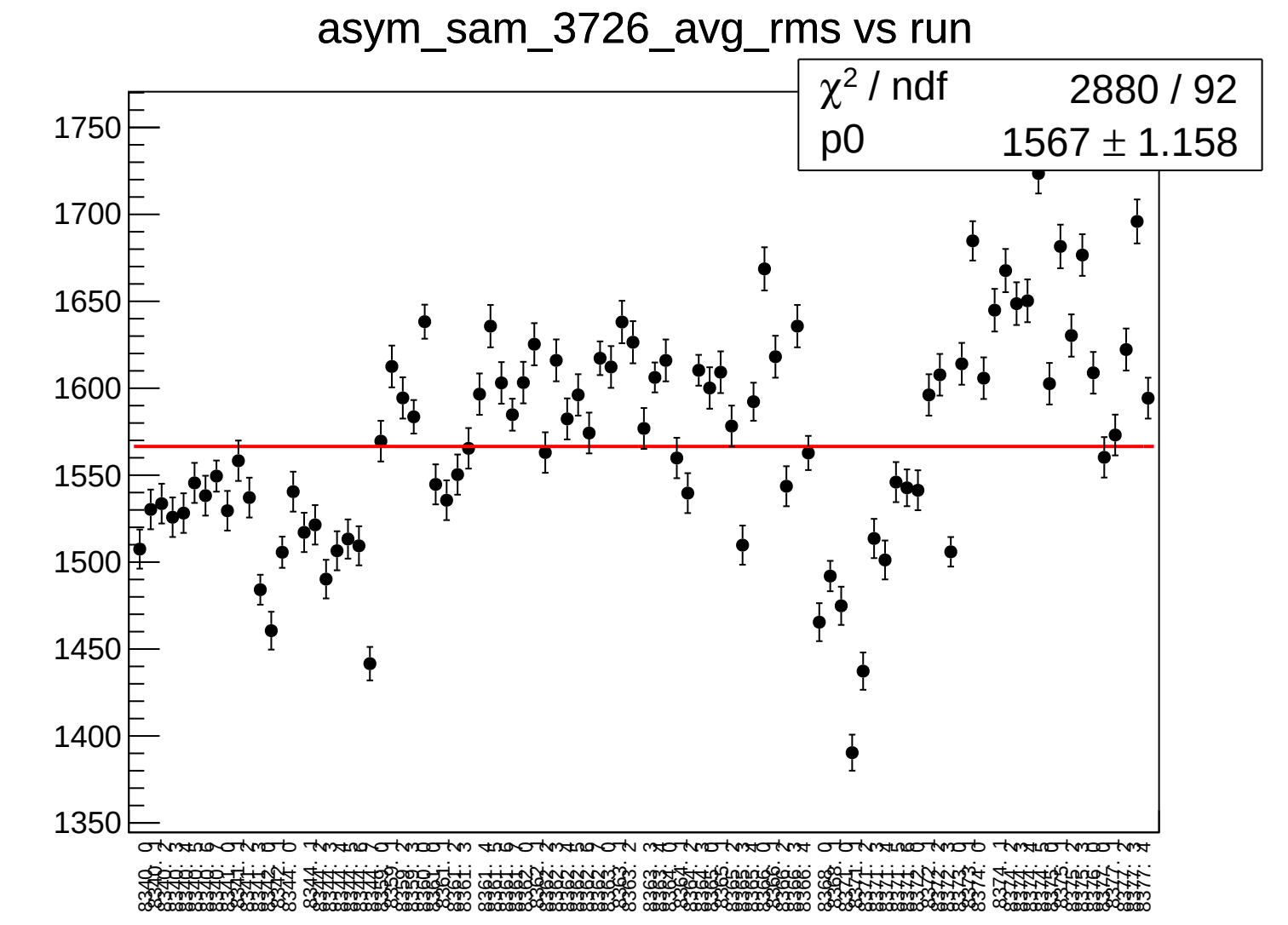

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2511 ± 1641
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −207.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

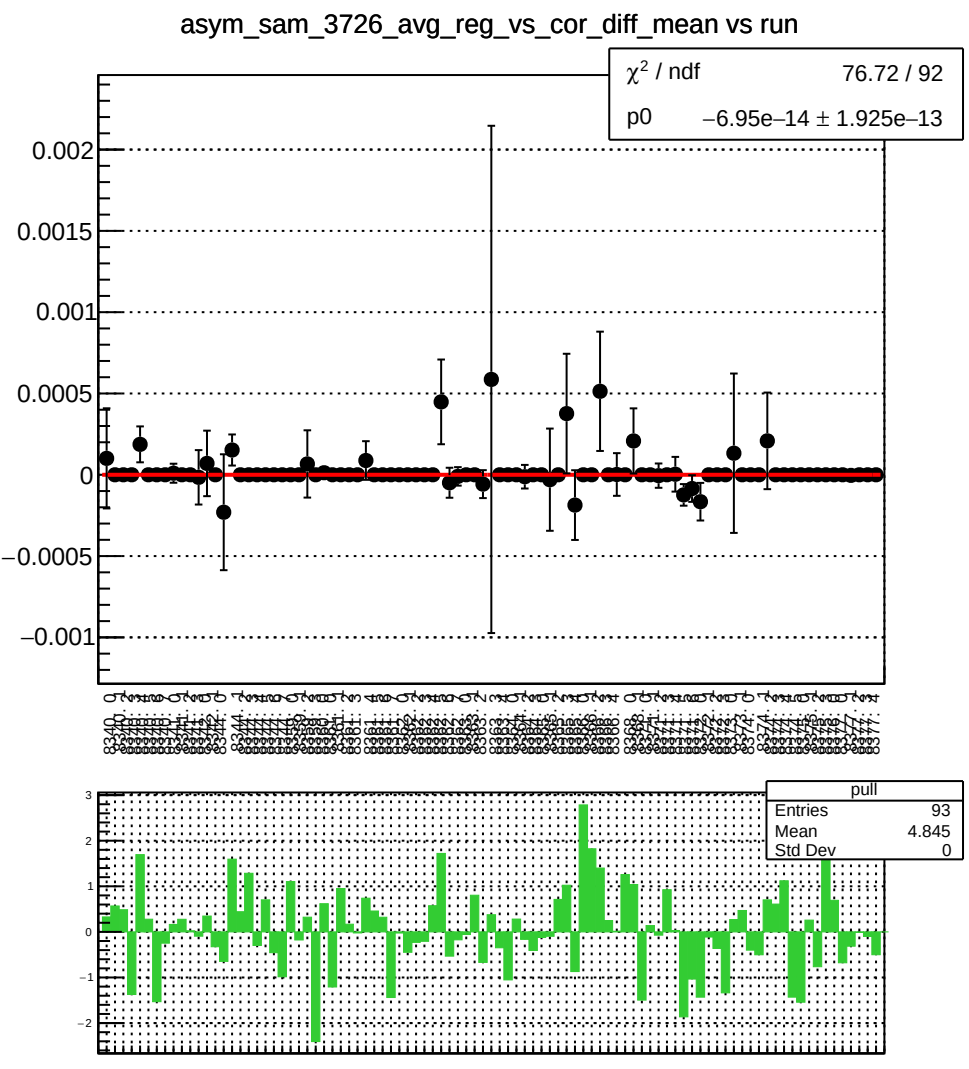

pull1D
Entries 93
Mean −0.02043
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

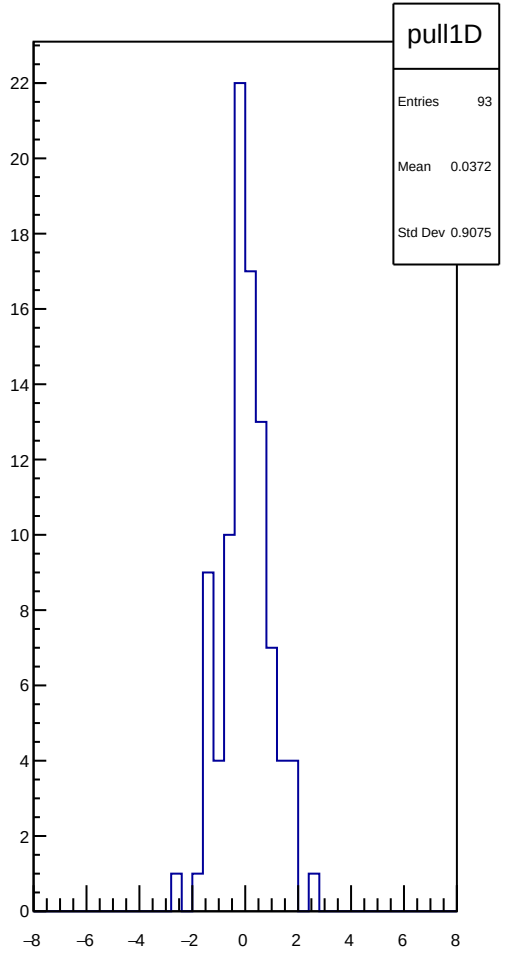

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3229 / 92
p0 1570 ± 1.16
1750
1700
1650
1600
1550
1500
1450
1400

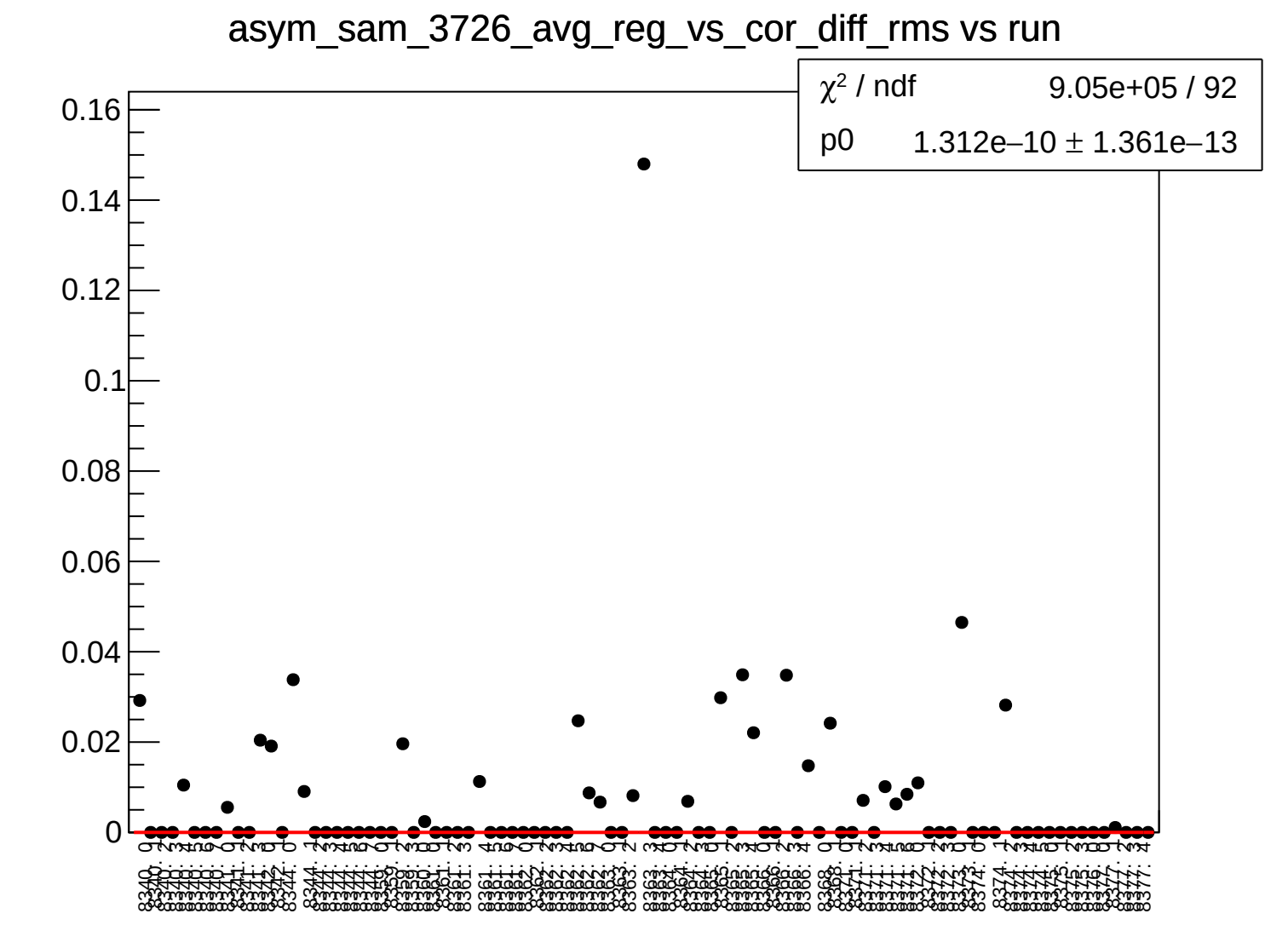

asym_sam_3726_avg_mean vs run
χ^2 / ndf 112.8 / 92
p0 2532 ± 1637
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −184.9
Std Dev 0
2
1
0
−1
−2

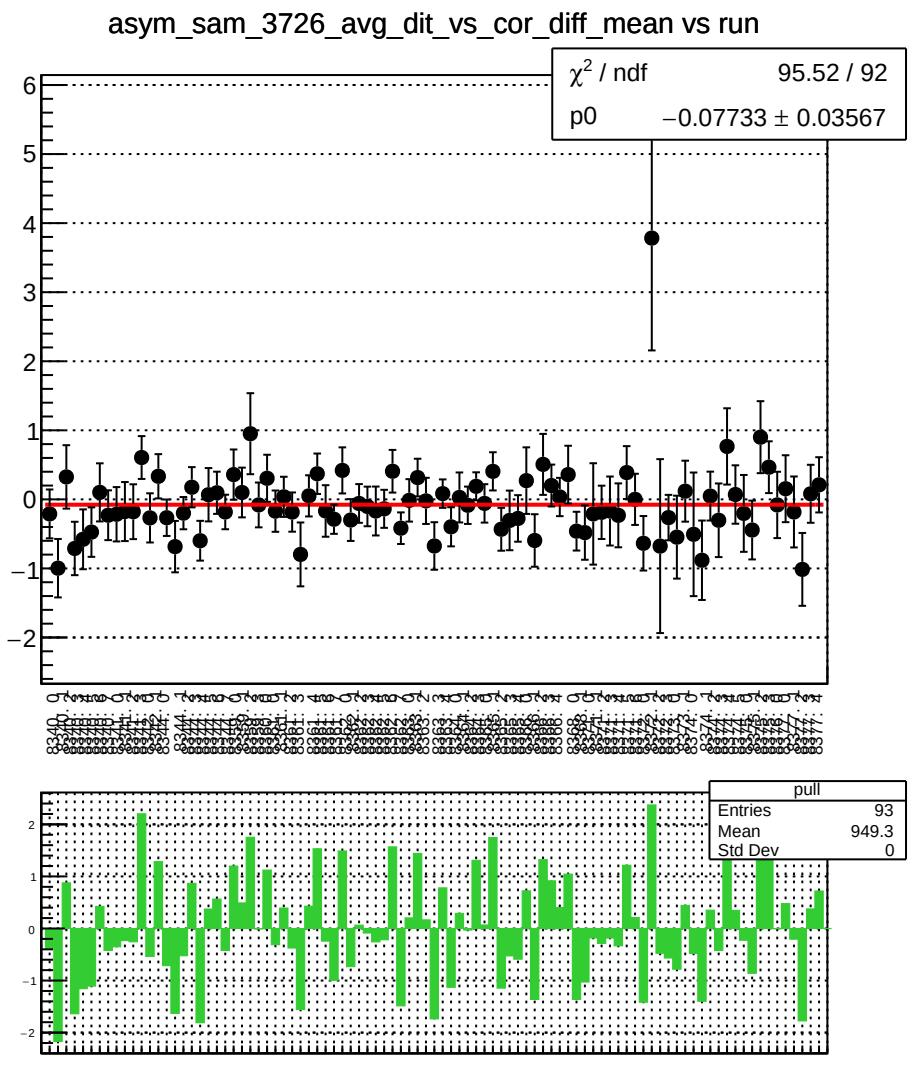

pull1D
Entries 93
Mean 0.0228
Std Dev 1.101
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

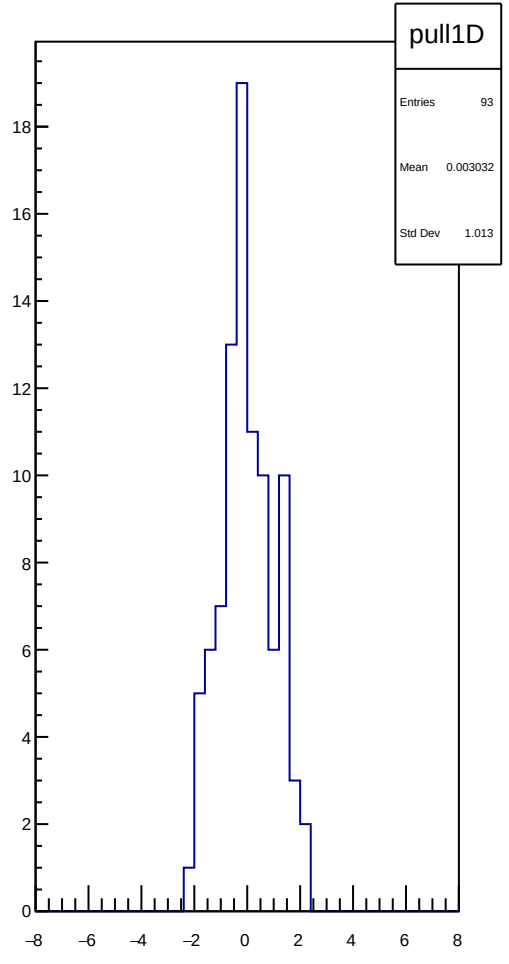

asym_sam_3726_avg_rms vs run
χ² / ndf 2880 / 92
p0 1567 ± 1.158
1750
1700
1650
1600
1550
1500
1450
1400
1350

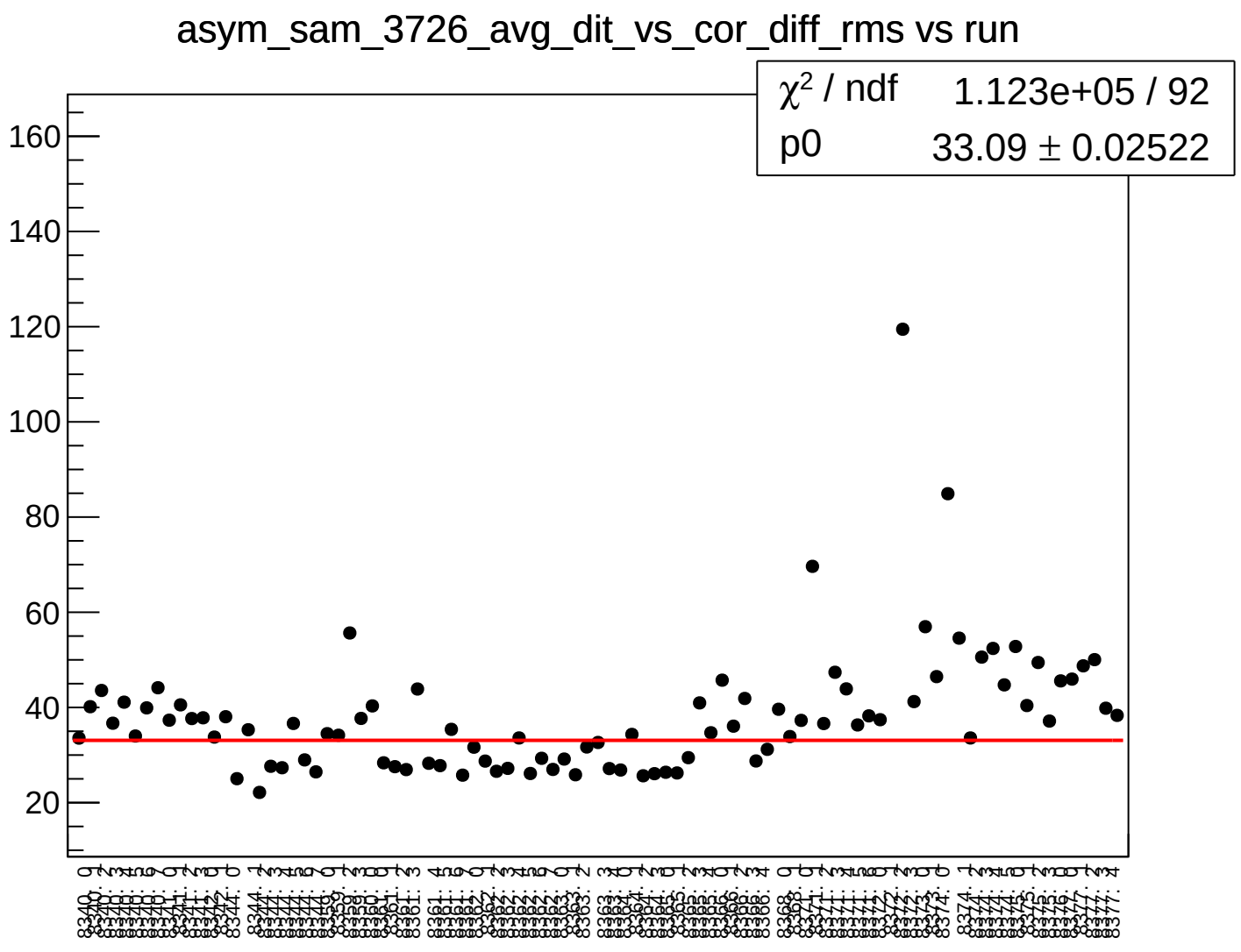

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.72 / 92
p0 −6.95e−14 ± 1.925e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 4.845
Std Dev 0
3
2
1
0
−1
−2

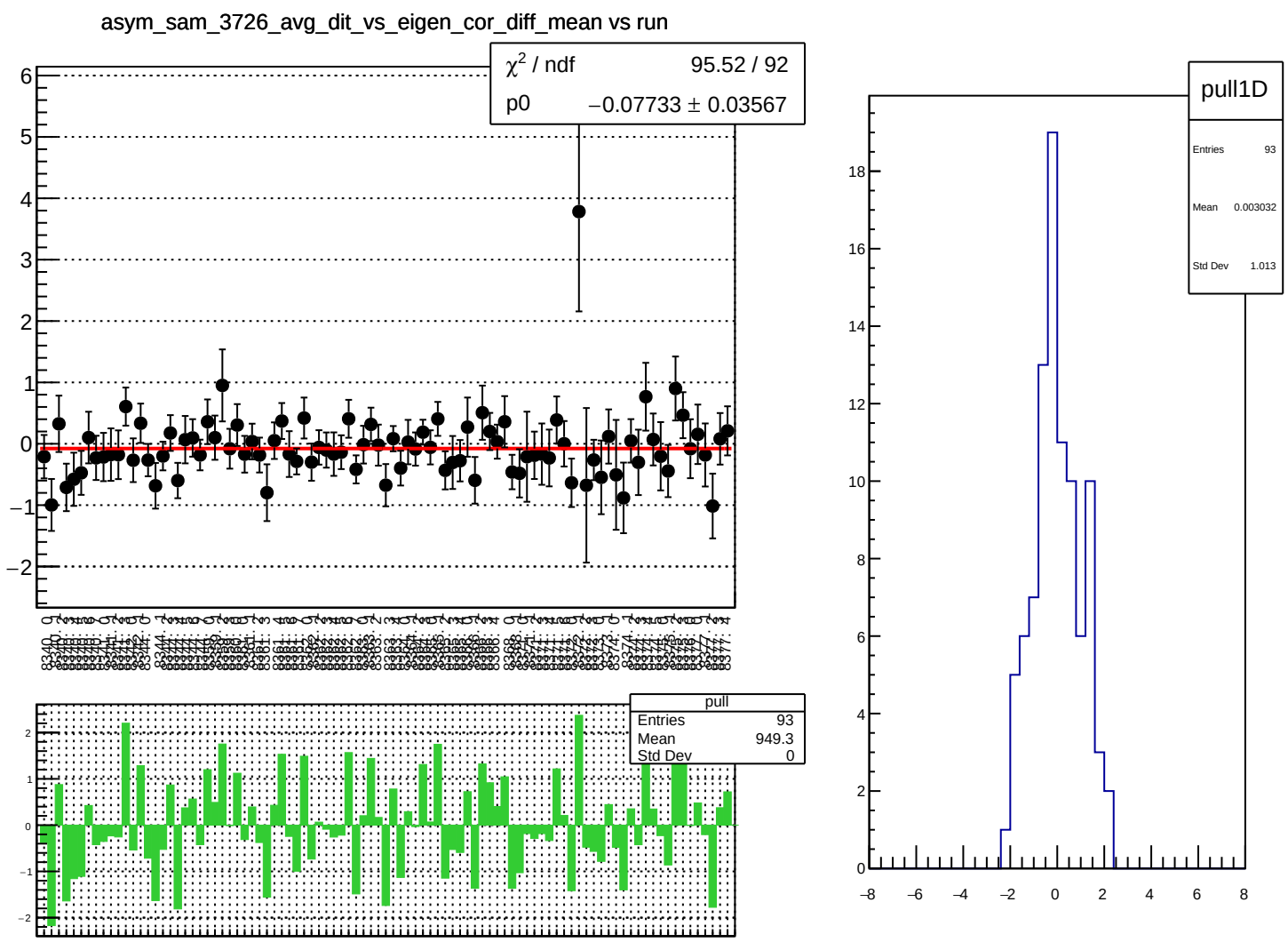

pull1D
Entries 93
Mean 0.0372
Std Dev 0.9075
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

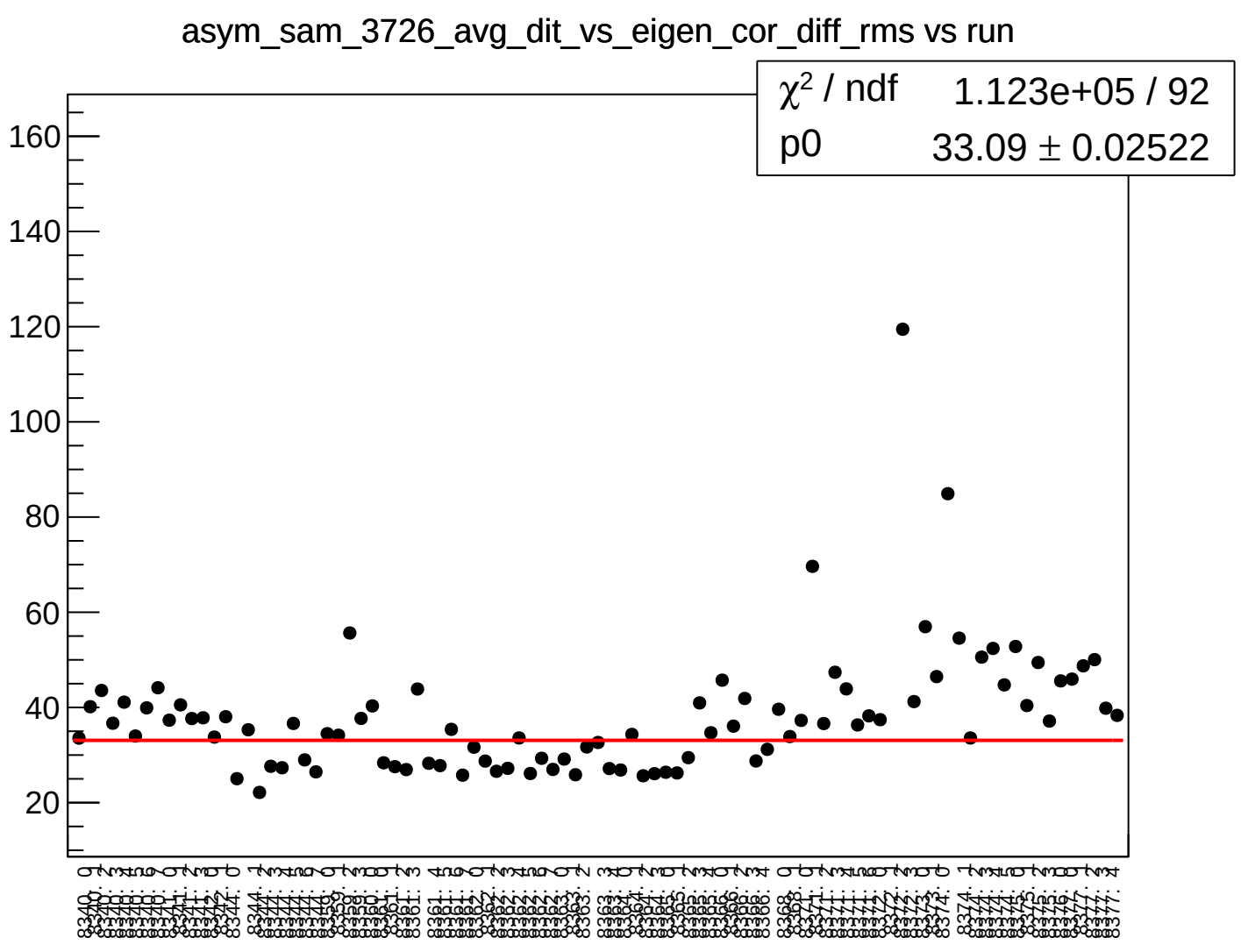

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.05e+05 / 92
p0 1.312e−10 ± 1.361e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

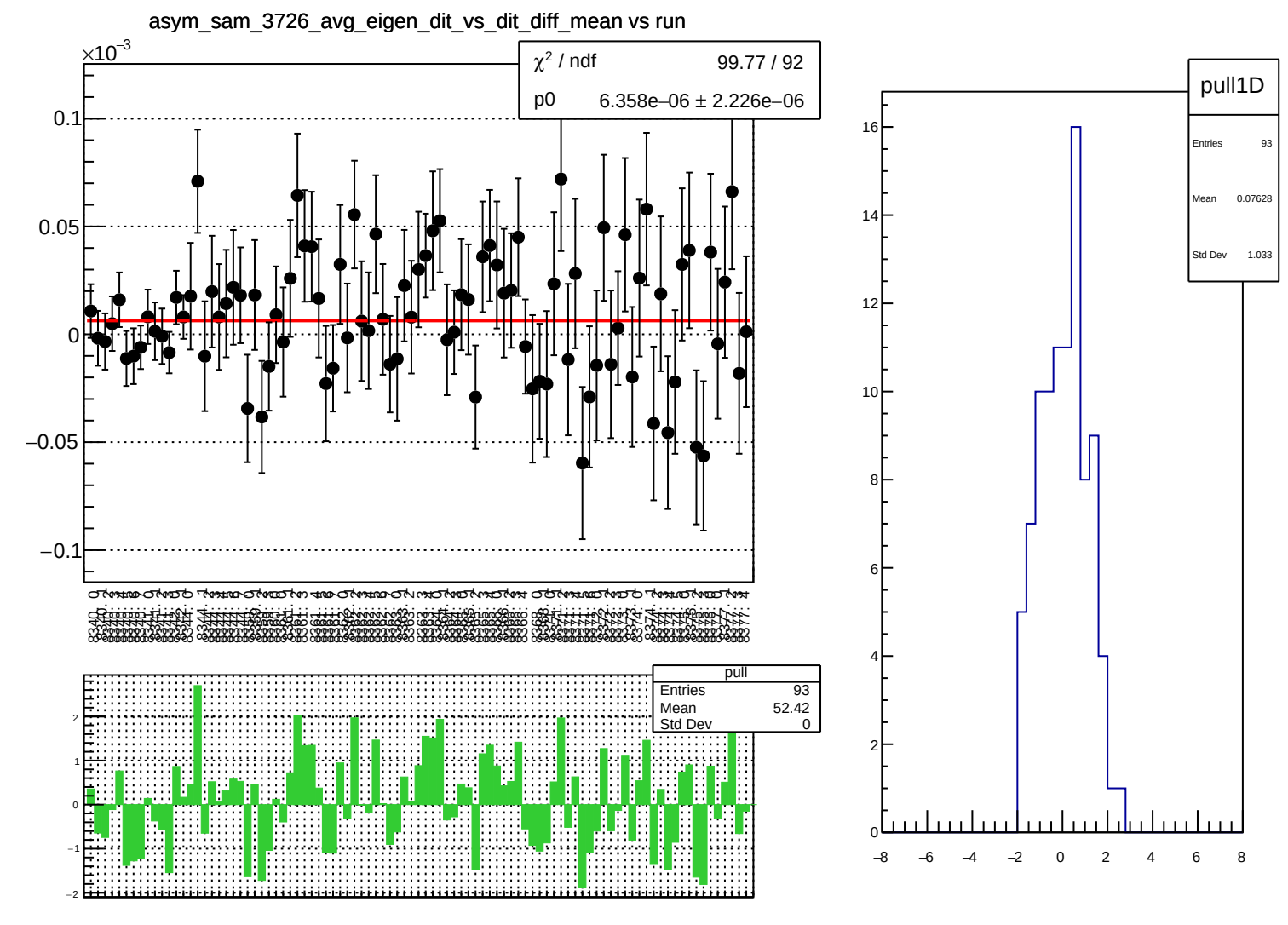

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.52 / 92
p0 −0.07733 ± 0.03567
pull
Entries 93
Mean 949.3
Std Dev 0

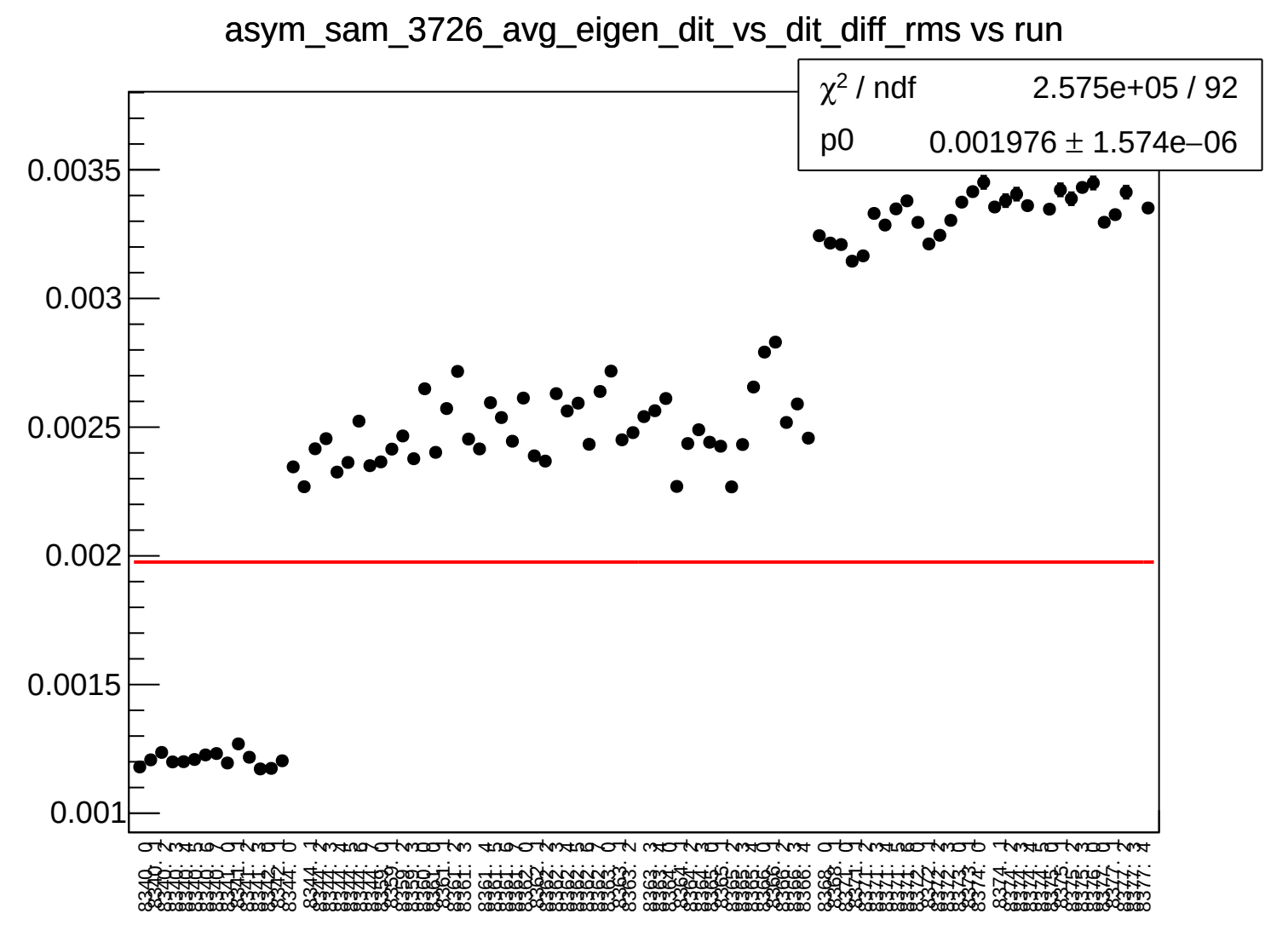

pull1D
Entries 93
Mean 0.003032
Std Dev 1.013

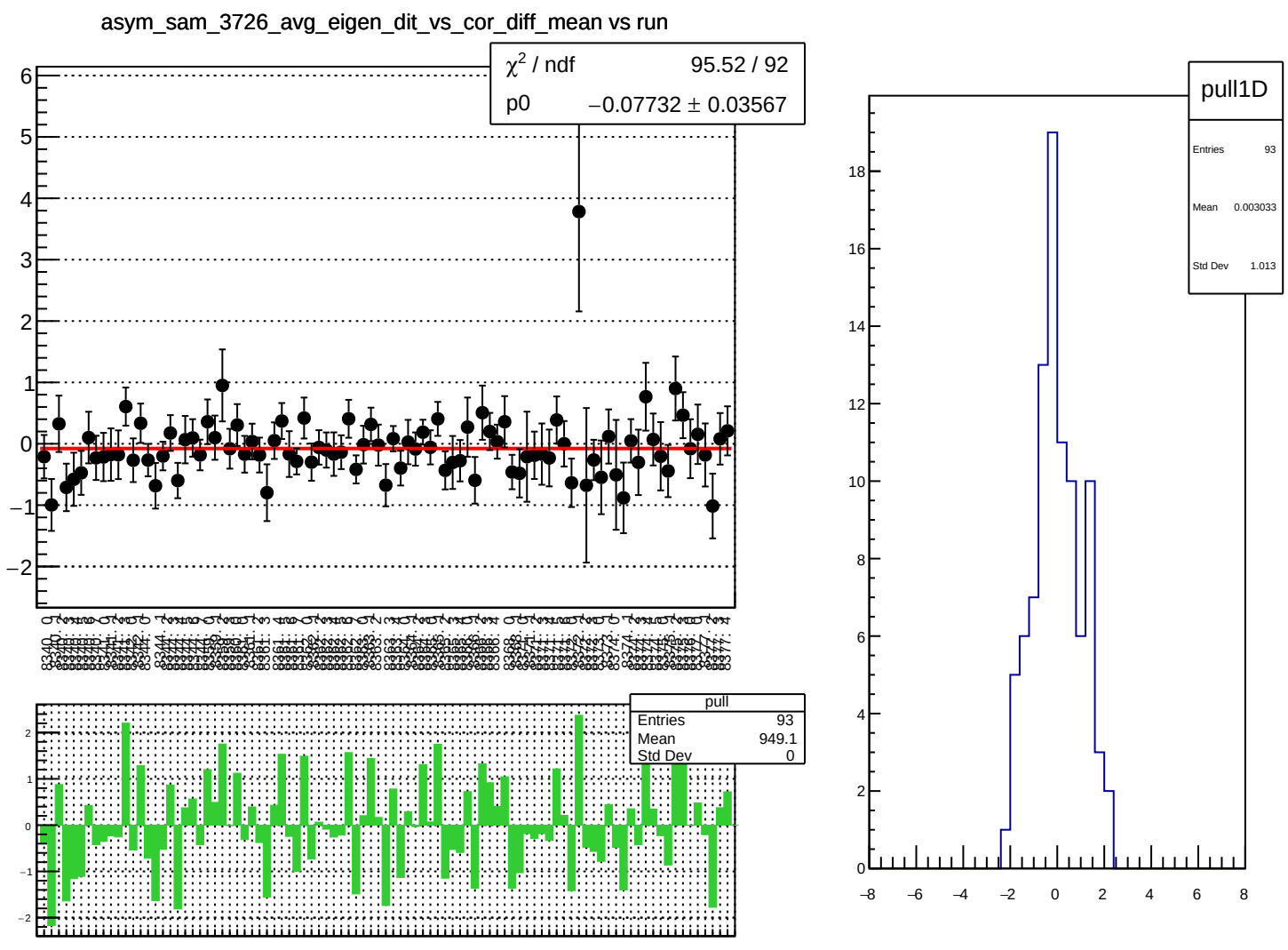

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.123e+05 / 92
p0 33.09 ± 0.02522
160
140
120
100
80
60
40
20

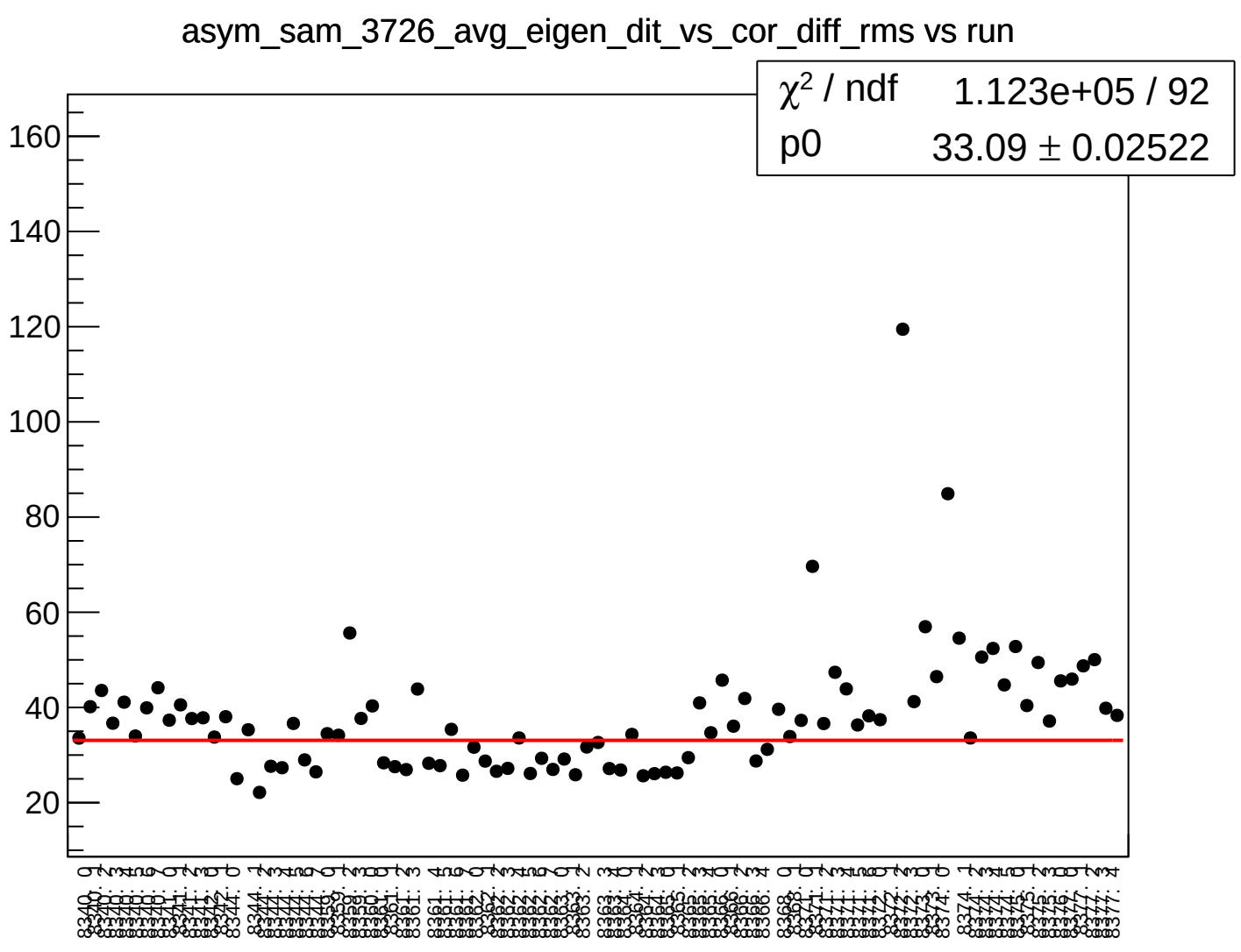

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.52 / 92
p0 −0.07733 ± 0.03567
pull
Entries 93
Mean 949.3
Std Dev 0
pull1D
Entries 93
Mean 0.003032
Std Dev 1.013

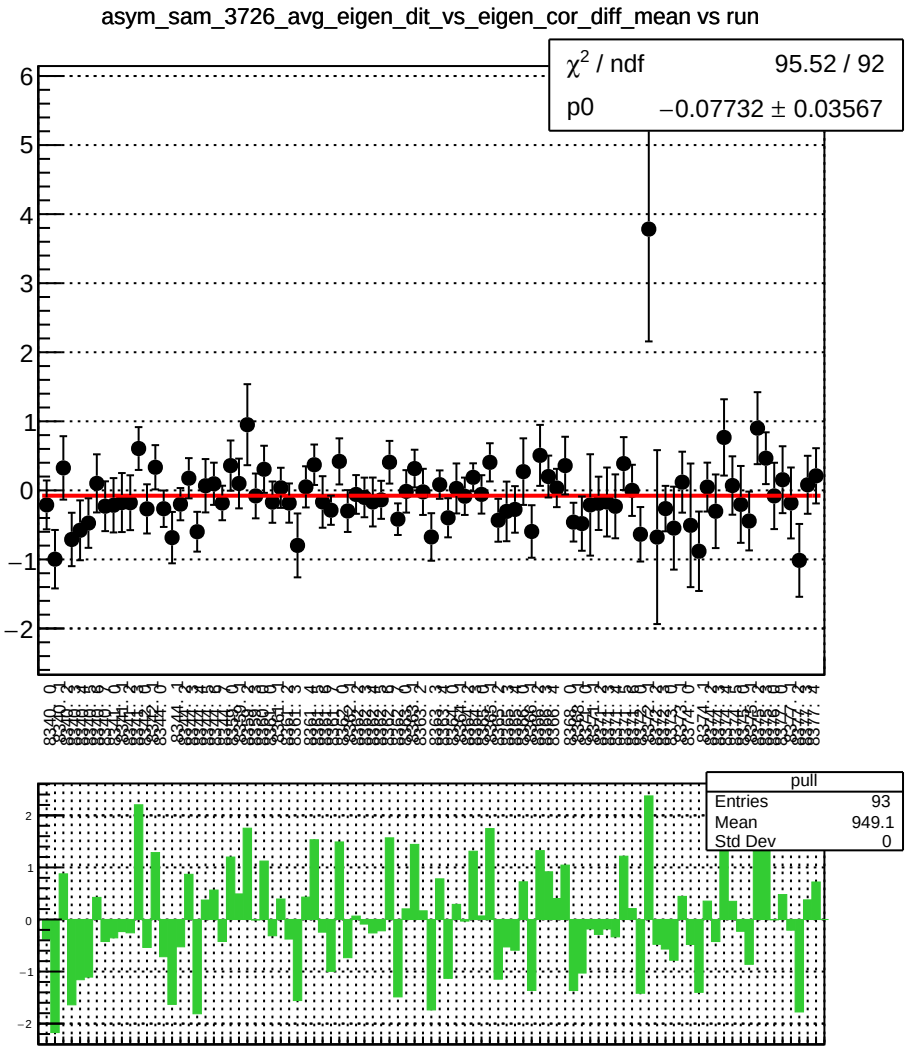

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.123e+05 / 92
p0 33.09 ± 0.02522
160
140
120
100
80
60
40
20

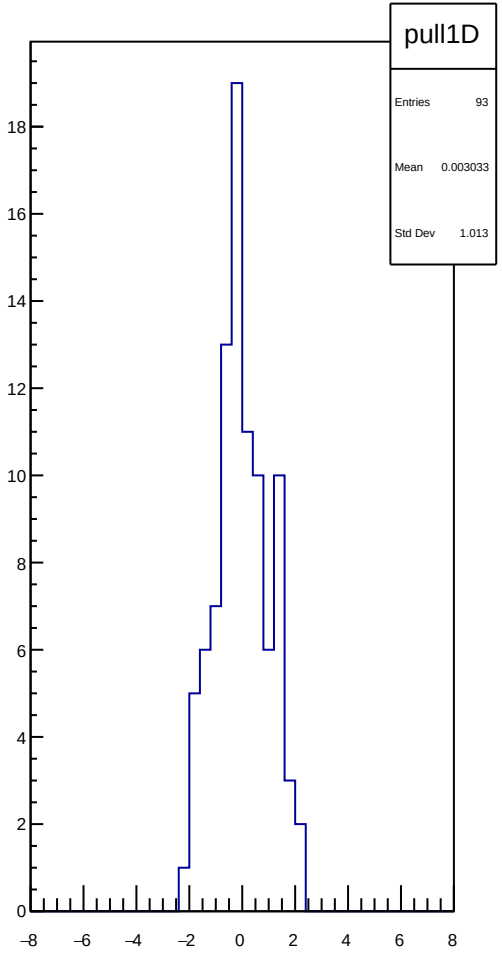

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.77 / 92
p0 6.358e−06 ± 2.226e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 52.42
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.07628
Std Dev 1.033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

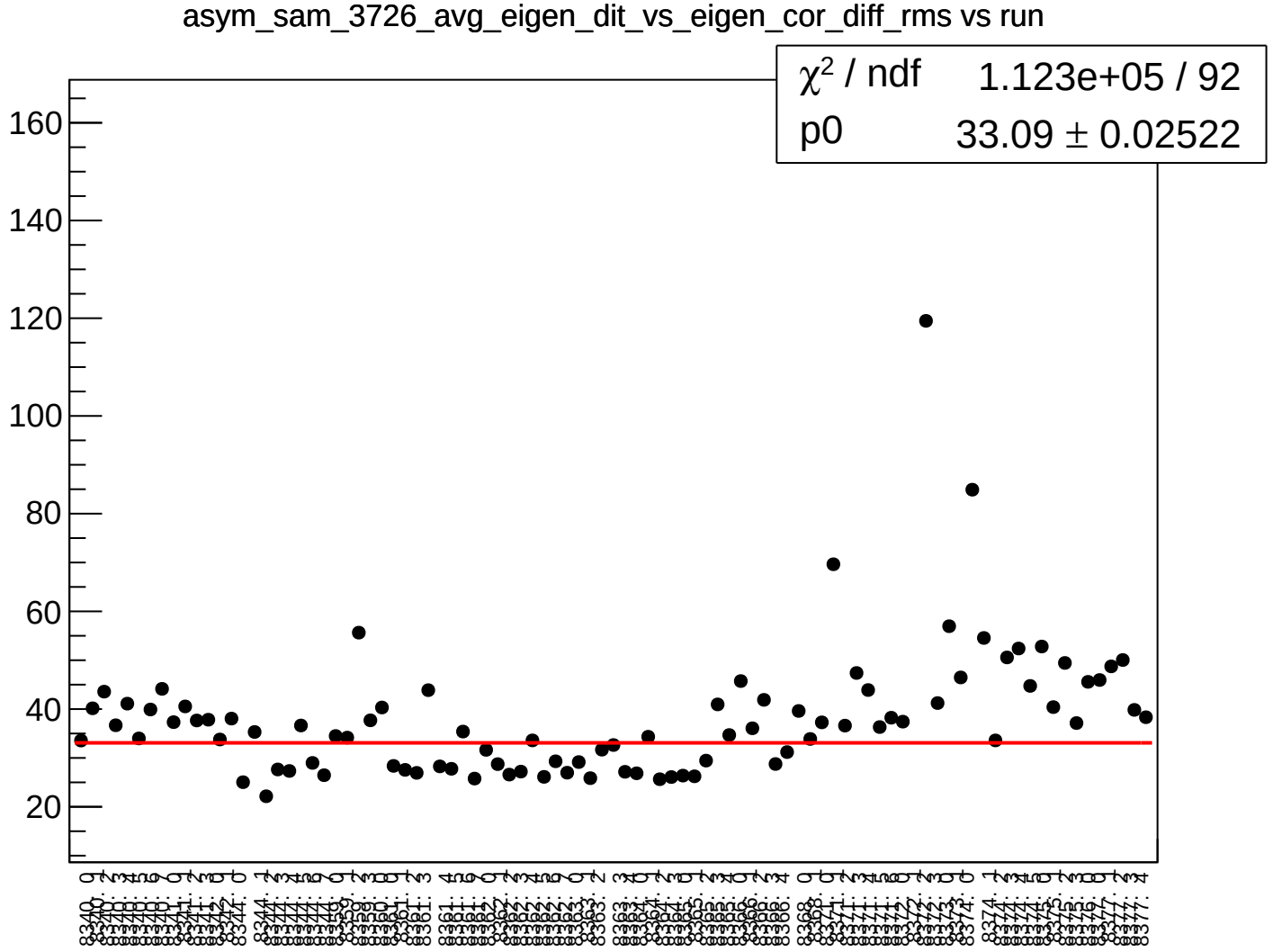

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.575e+05 / 92
p0 0.001976 ± 1.574e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

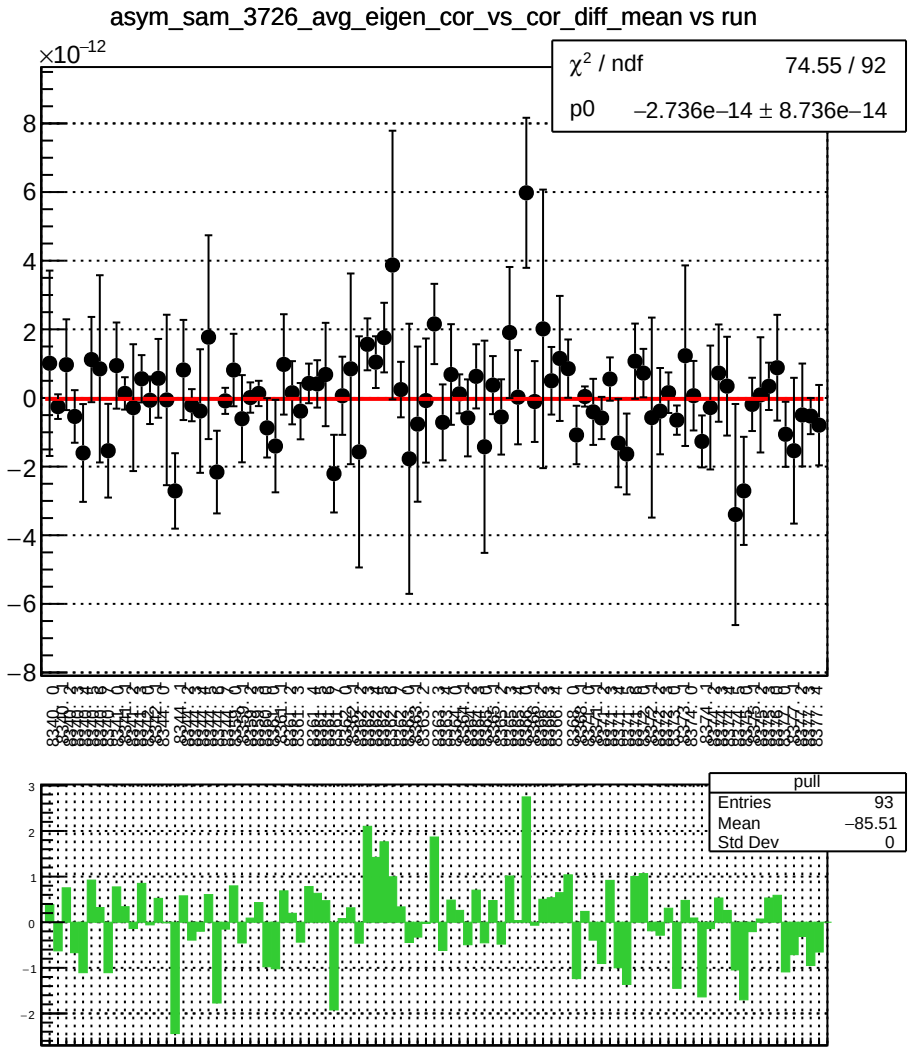

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.52 / 92
p0 −0.07732 ± 0.03567
pull
Entries 93
Mean 949.1
Std Dev 0
pull1D
Entries 93
Mean 0.003033
Std Dev 1.013

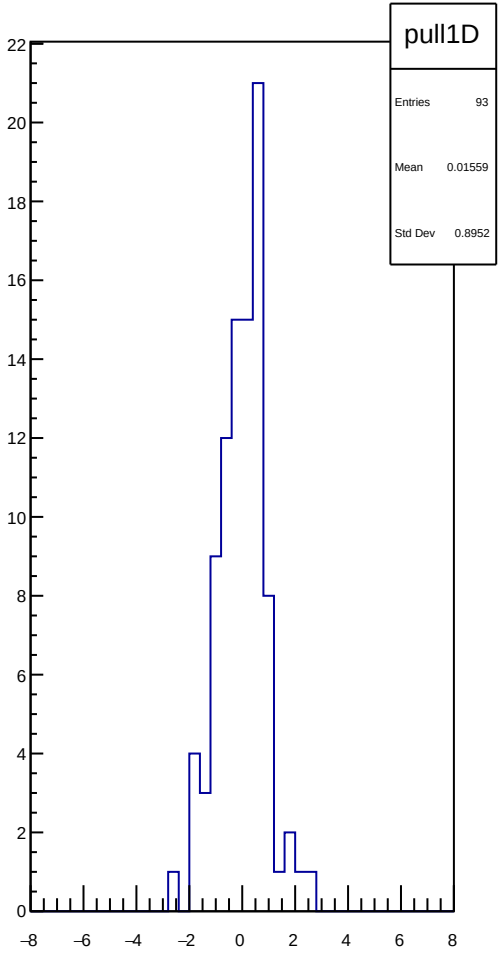

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.123e+05 / 92
p0 33.09 ± 0.02522
160
140
120
100
80
60
40
20

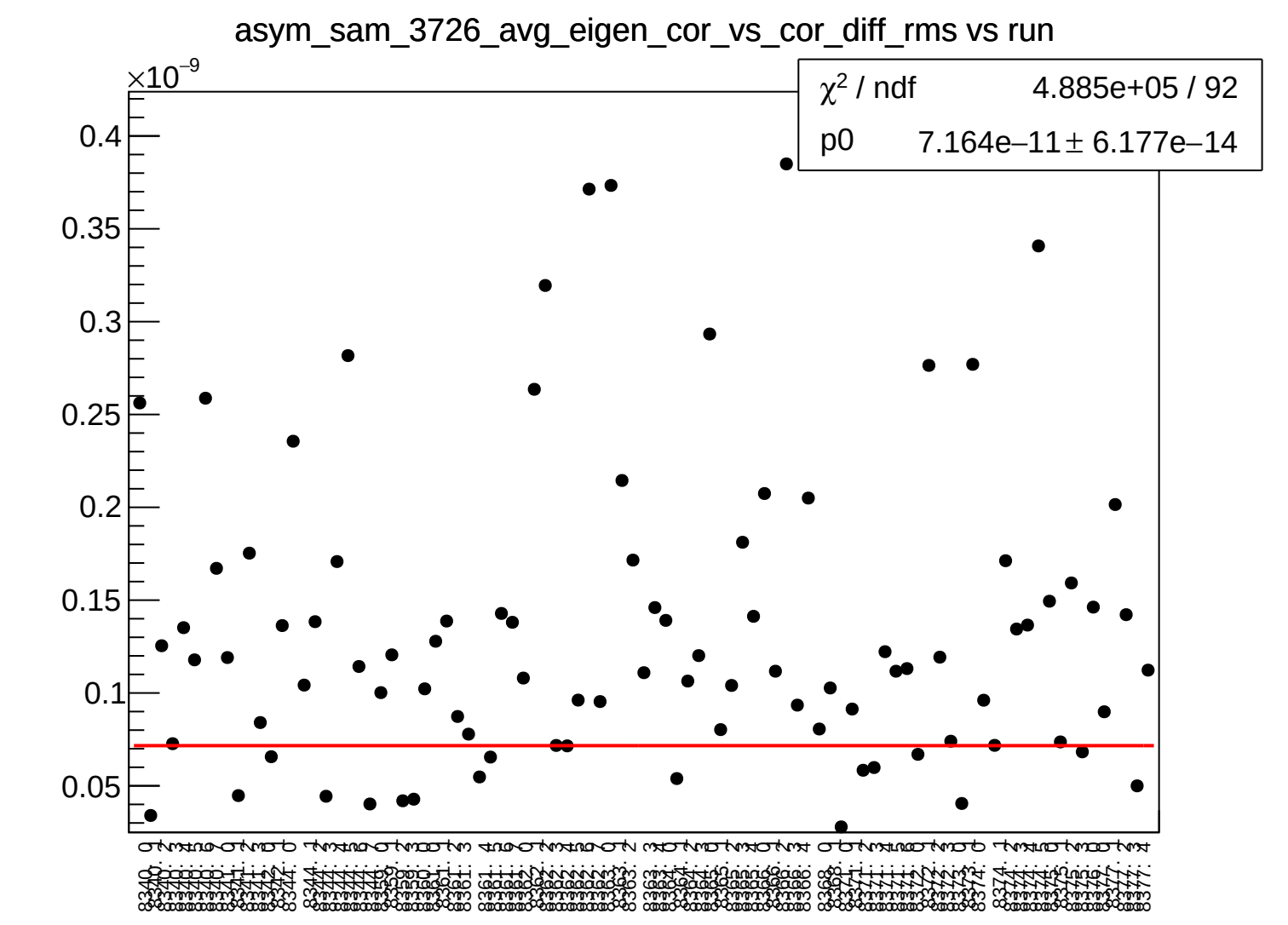

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.52 / 92
p0 −0.07732 ± 0.03567
pull
Entries 93
Mean 949.1
Std Dev 0

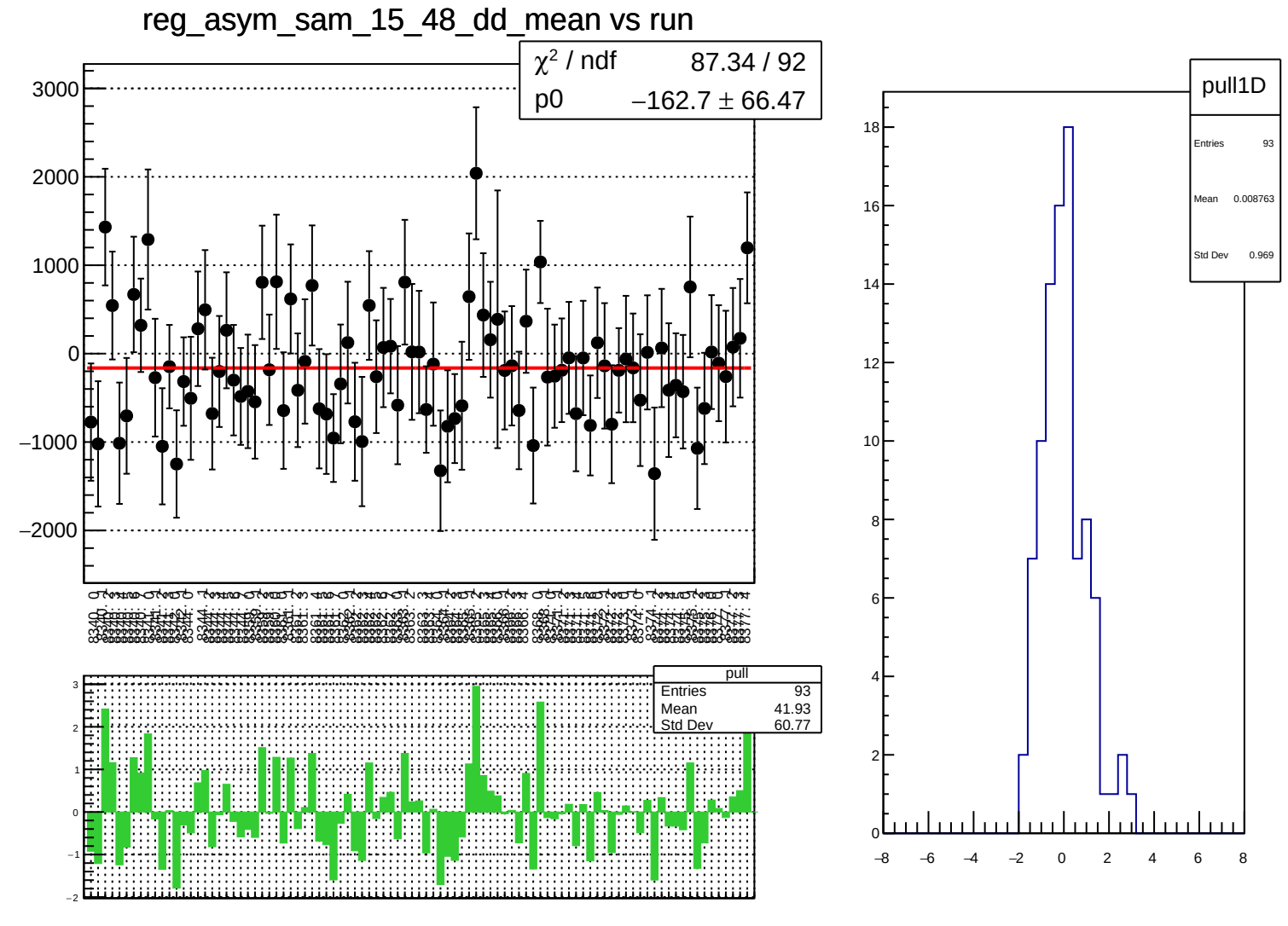

pull1D
Entries 93
Mean 0.003033
Std Dev 1.013

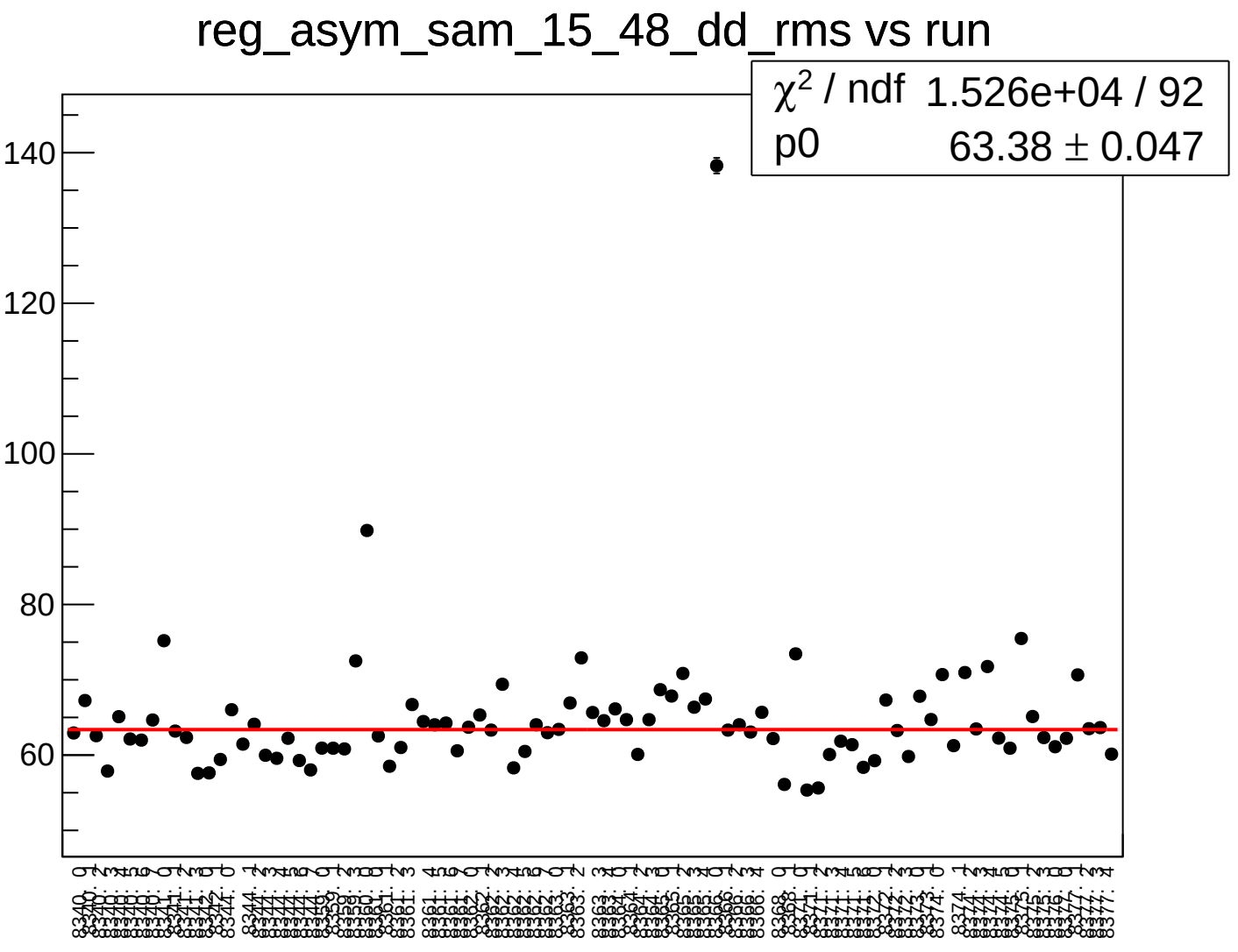

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.123e+05 / 92
p0 33.09 ± 0.02522
160
140
120
100
80
60
40
20

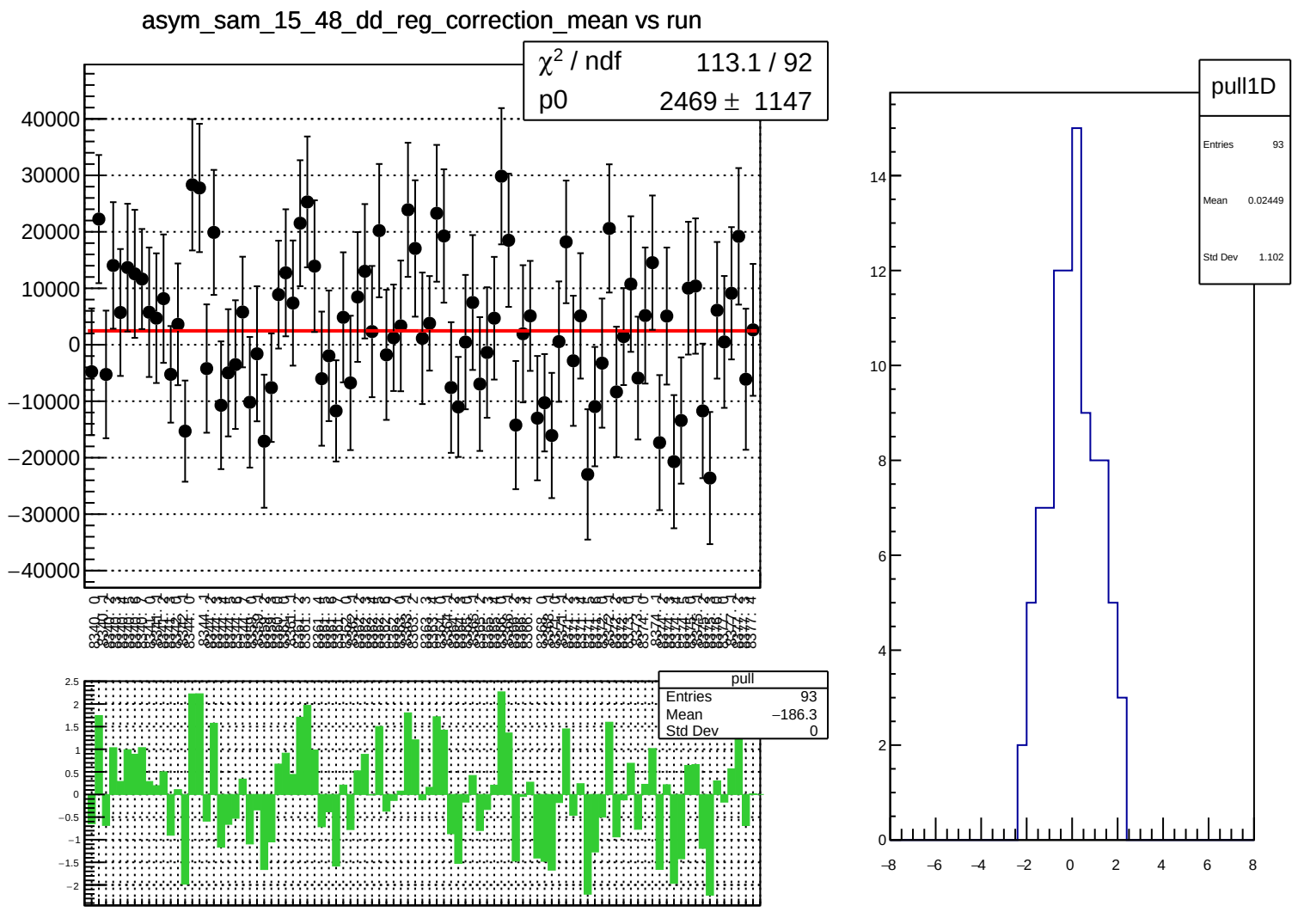

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.55 / 92
p0 −2.736e−14 ± 8.736e−14
pull
Entries 93
Mean −85.51
Std Dev 0

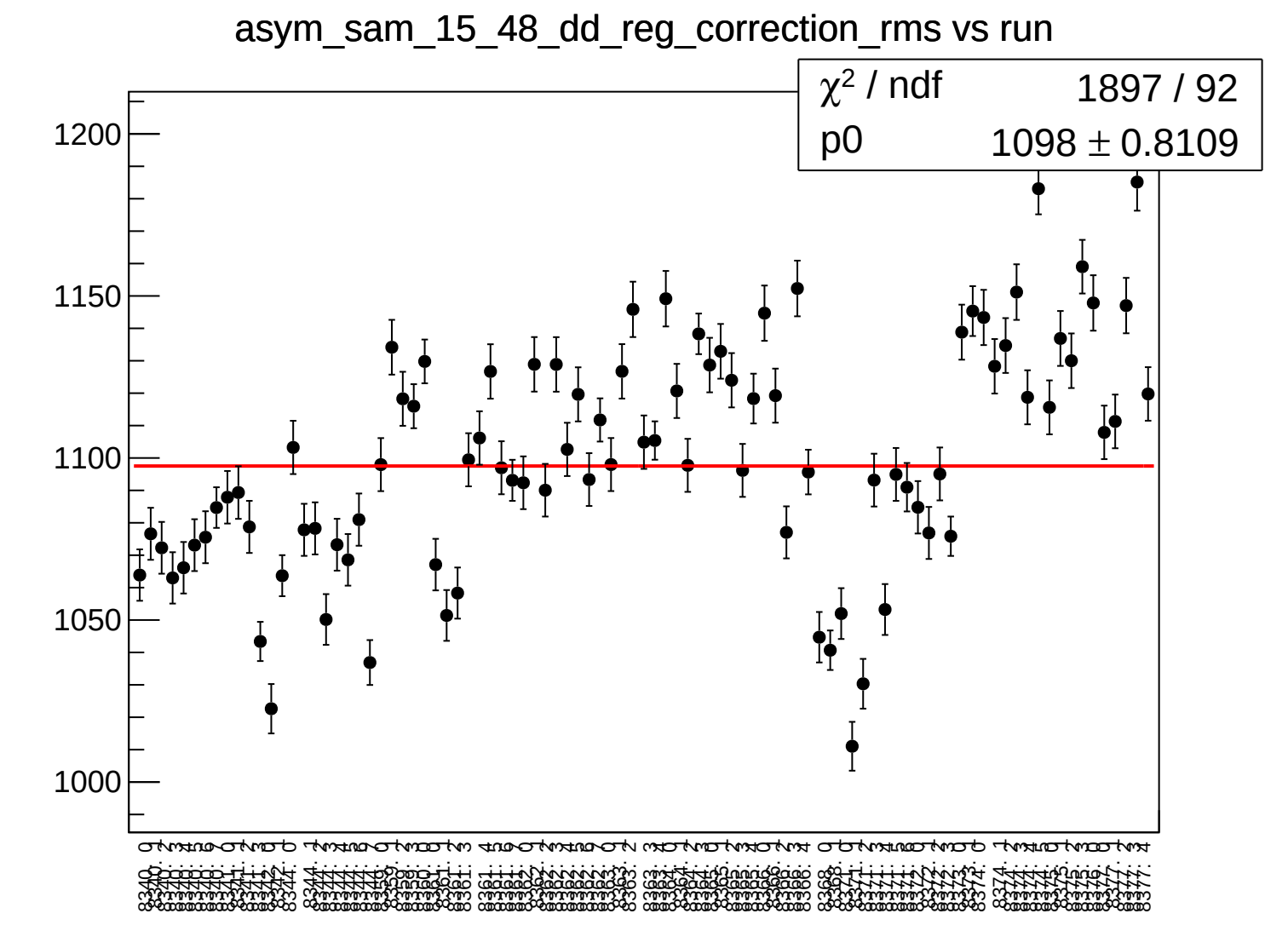

pull1D
Entries 93
Mean 0.01559
Std Dev 0.8952

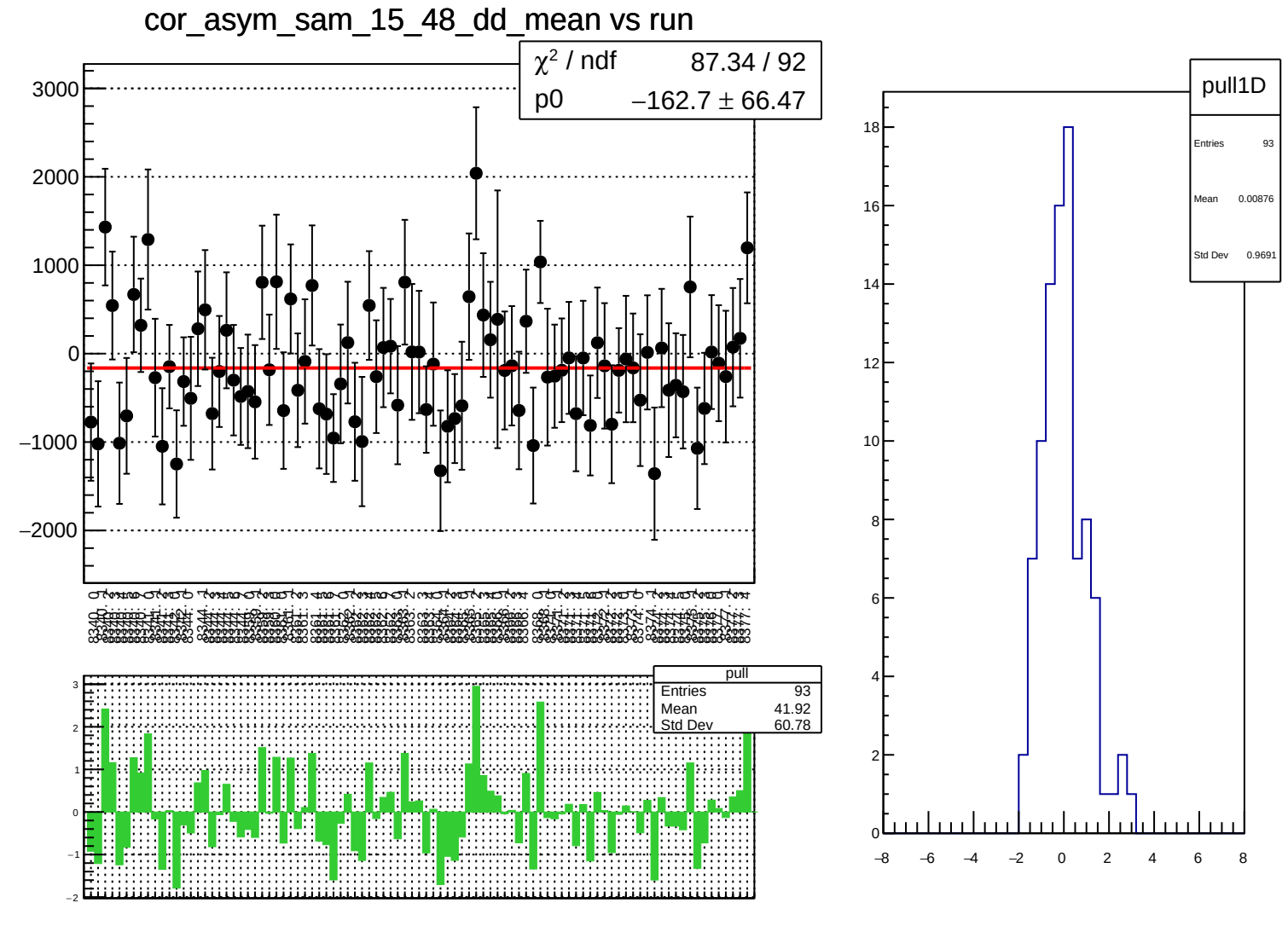

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.885e+05 / 92
p0 7.164e−11 ± 6.177e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

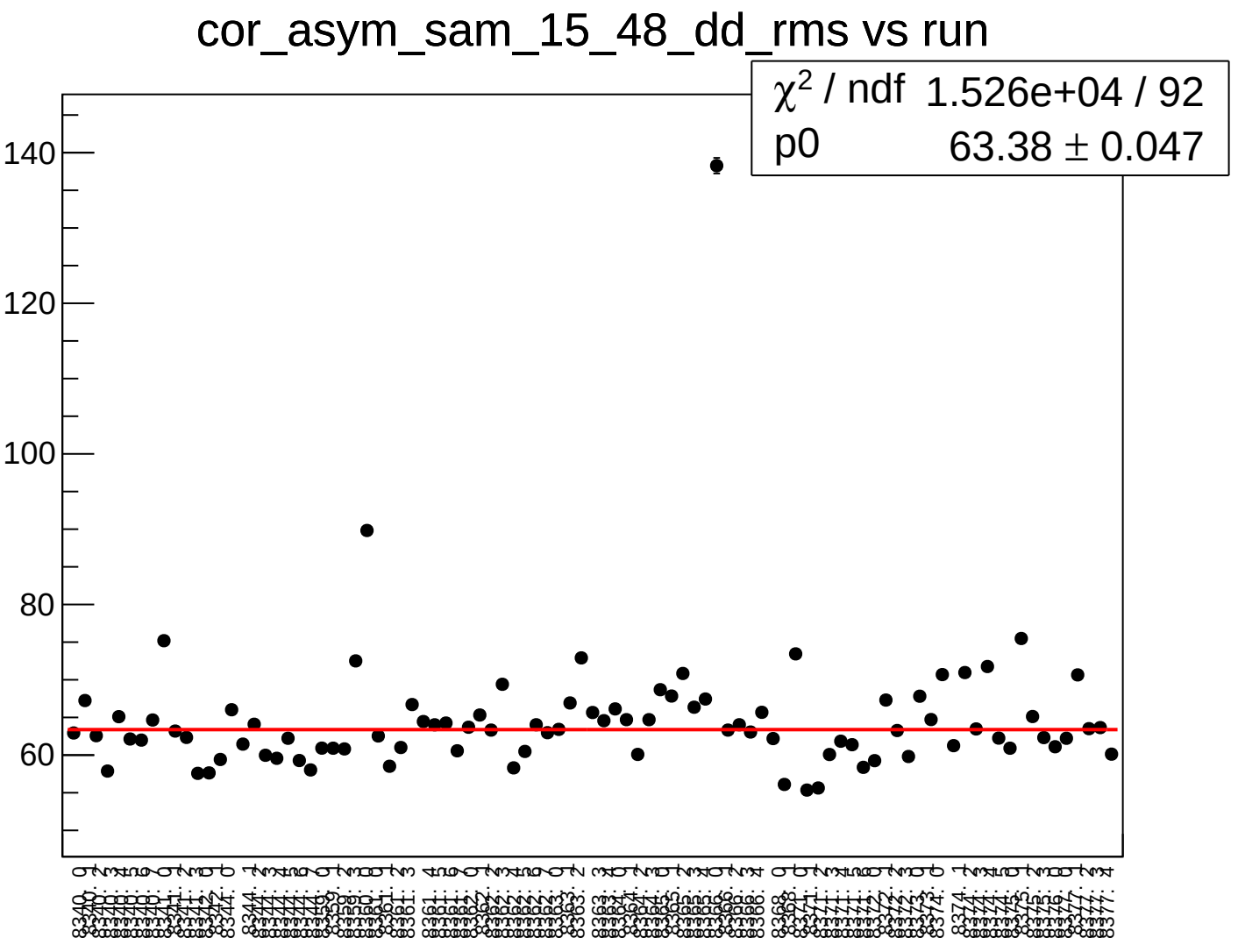

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.34 / 92
p0 −162.7 ± 66.47
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.93
Std Dev 60.77
pull1D
Entries 93
Mean 0.008763
Std Dev 0.969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

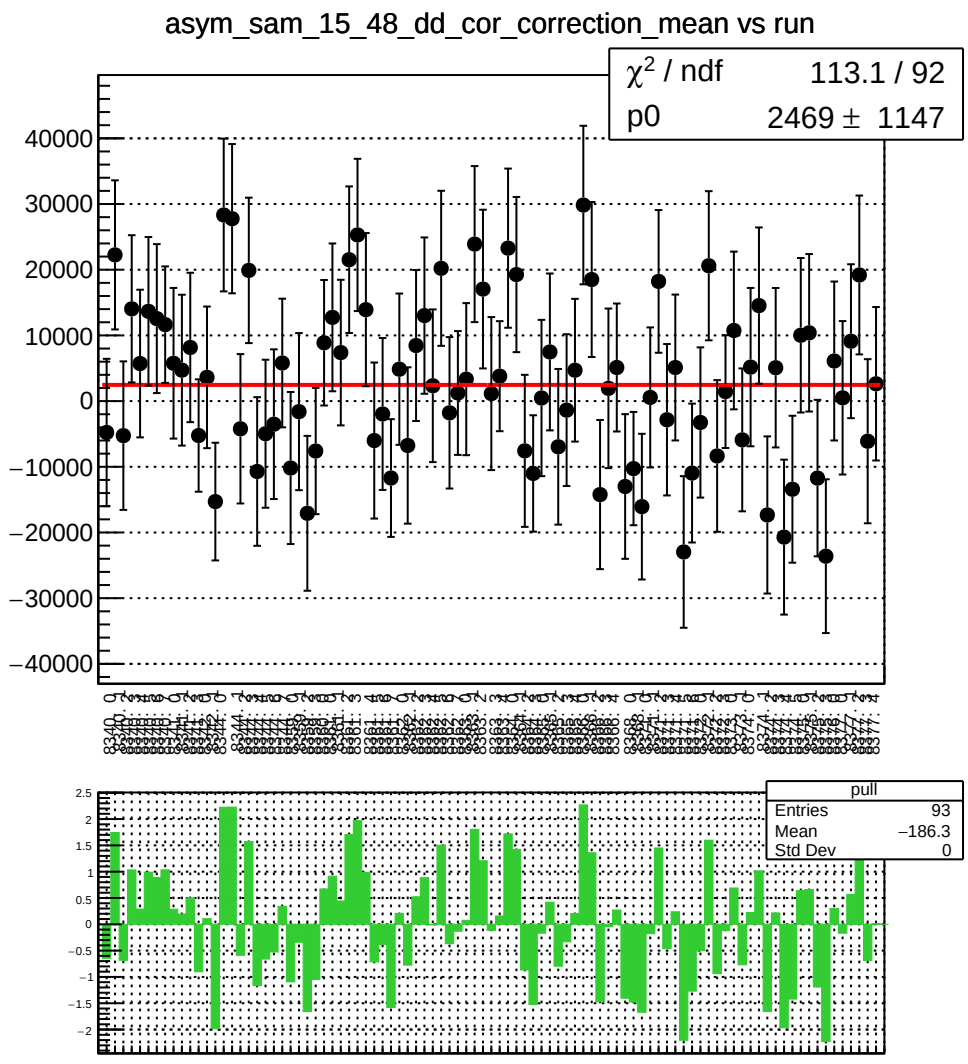

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.526e+04 / 92
p0 63.38 ± 0.047
140
120
100
80
60

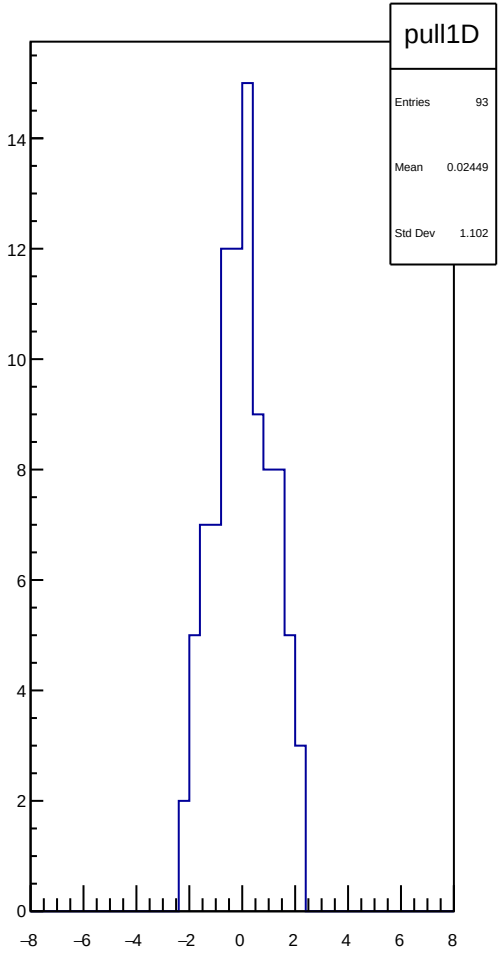

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 113.1 / 92
p0 2469 ± 1147
pull
Entries 93
Mean −186.3
Std Dev 0
pull1D
Entries 93
Mean 0.02449
Std Dev 1.102

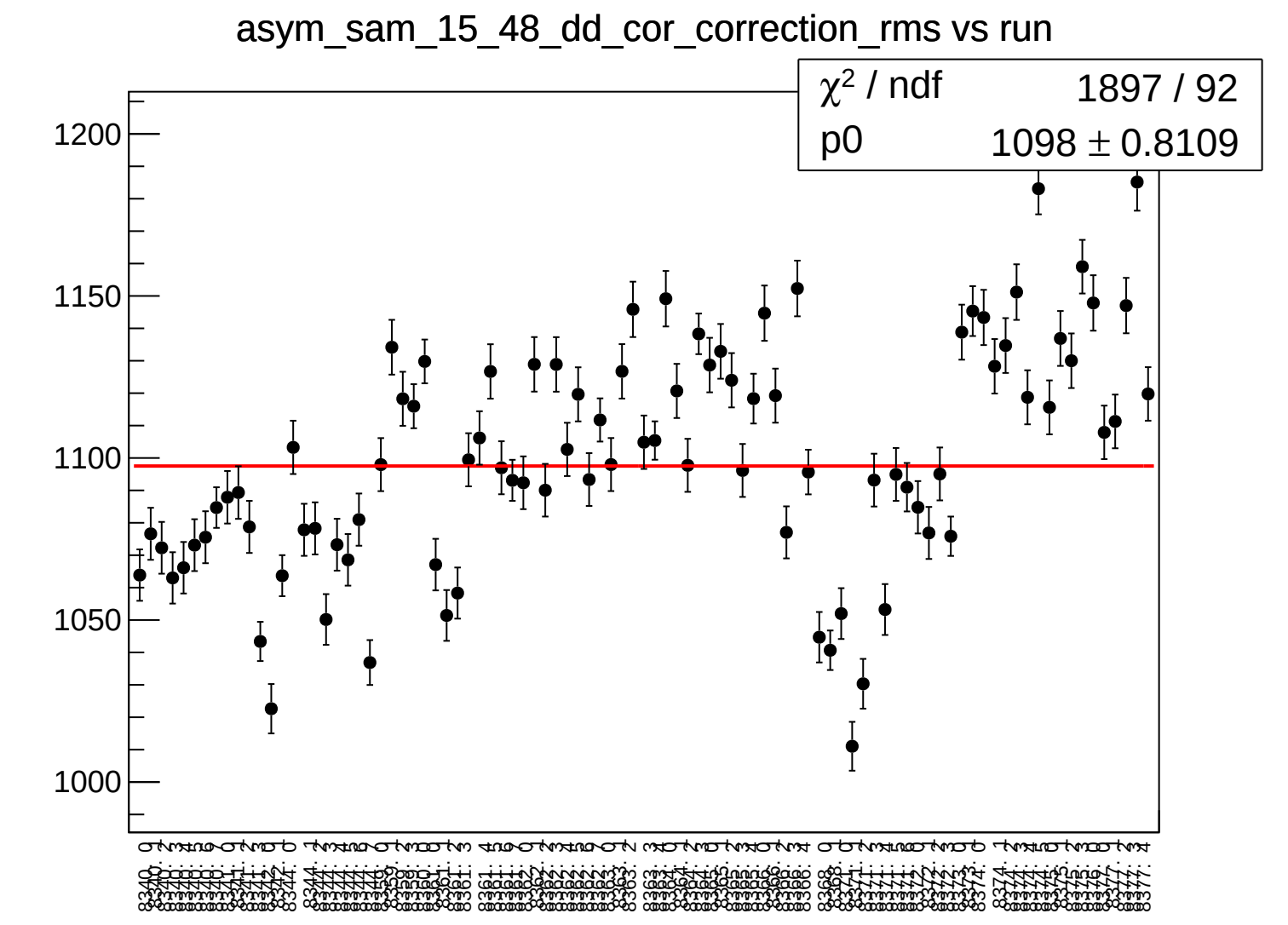

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1897 / 92
p0 1098 ± 0.8109
1200
1150
1100
1050
1000

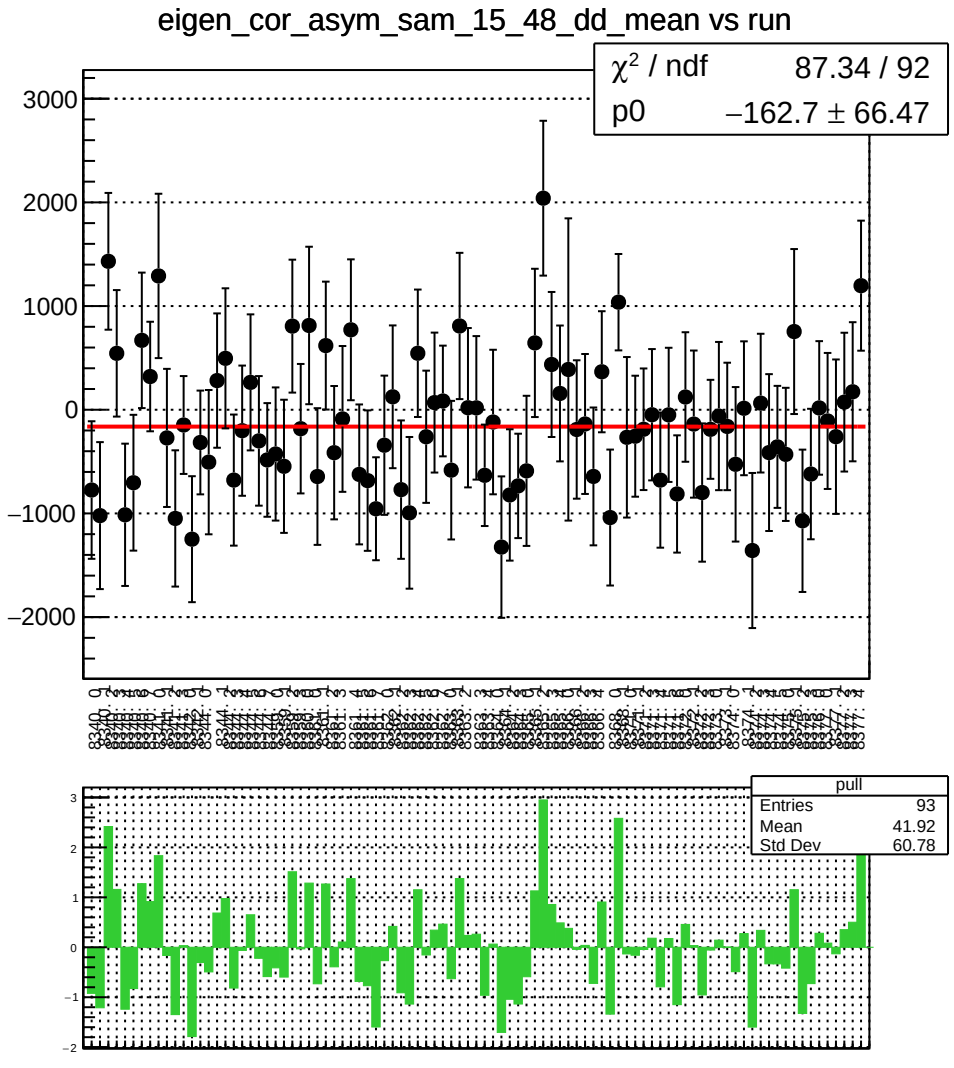

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.34 / 92
p0 −162.7 ± 66.47
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.92
Std Dev 60.78
pull1D
Entries 93
Mean 0.00876
Std Dev 0.9691

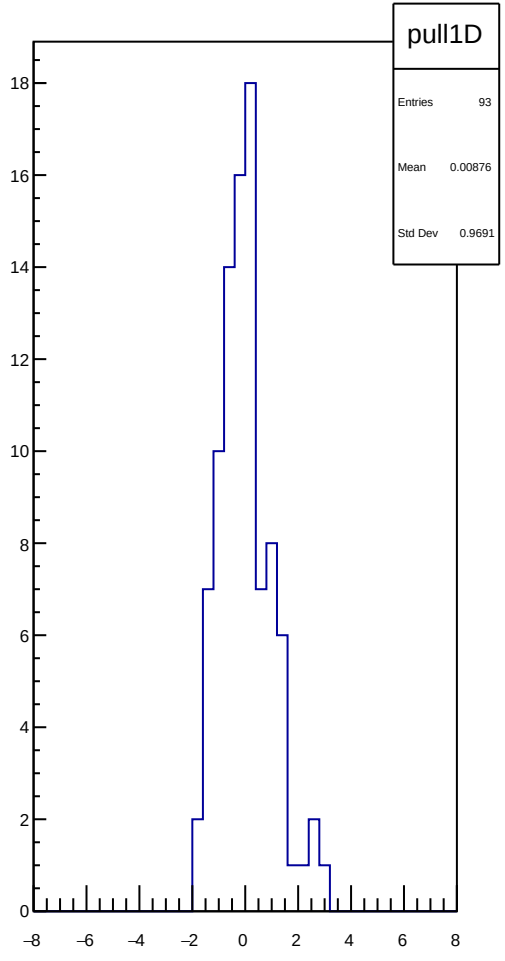

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.526e+04 / 92
p0 63.38 ± 0.047
140
120
100
80
60

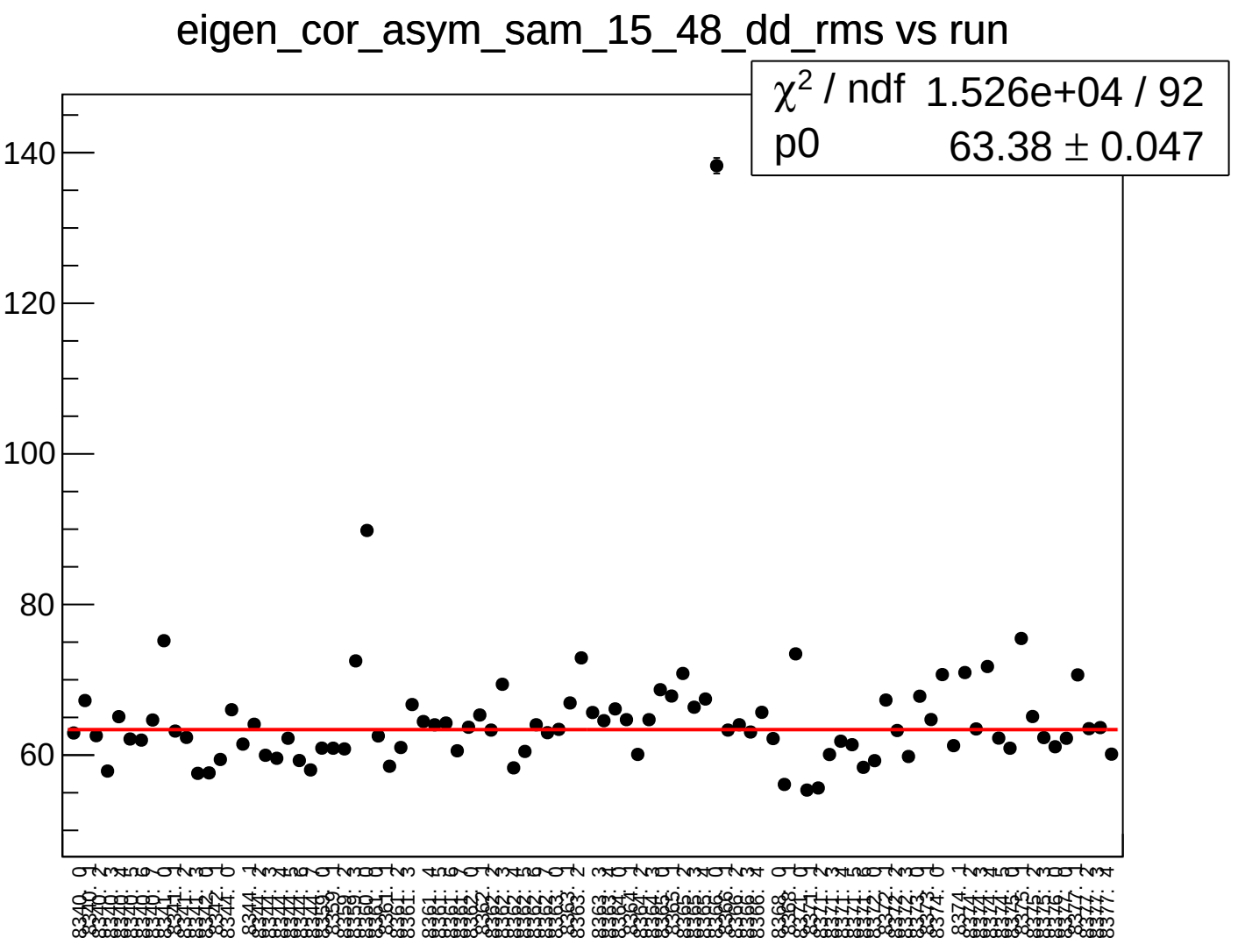

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 113.1 / 92
p0 2469 ± 1147
pull
Entries 93
Mean −186.3
Std Dev 0

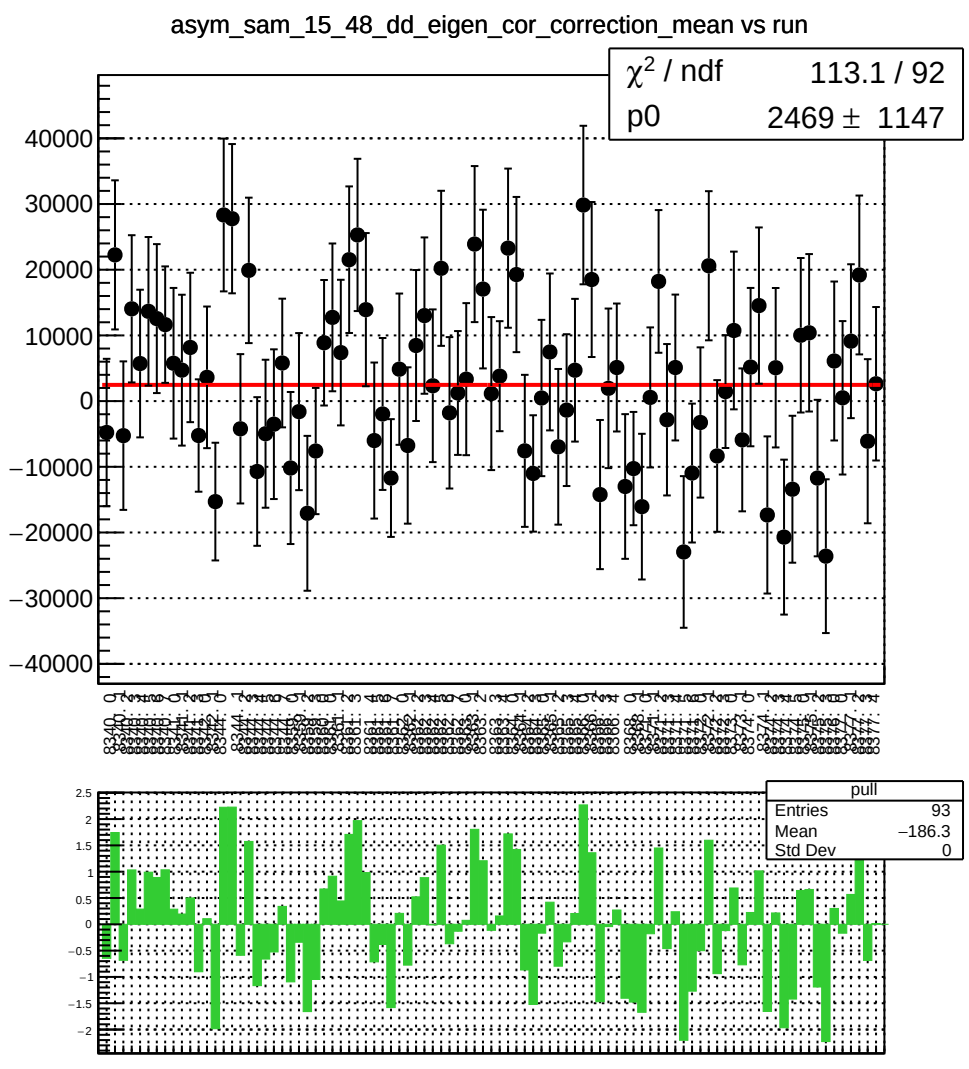

pull1D
Entries 93
Mean 0.02449
Std Dev 1.102

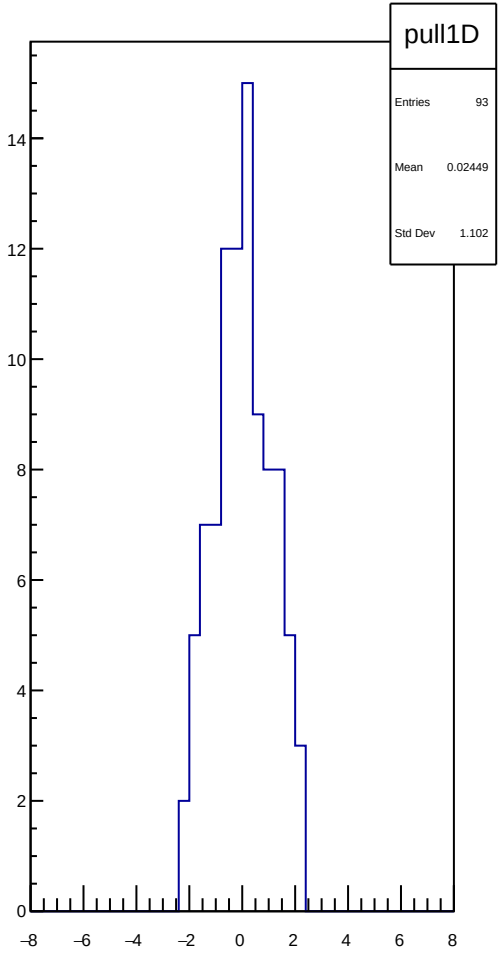

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1897 / 92
p0 1098 ± 0.8109
1200
1150
1100
1050
1000

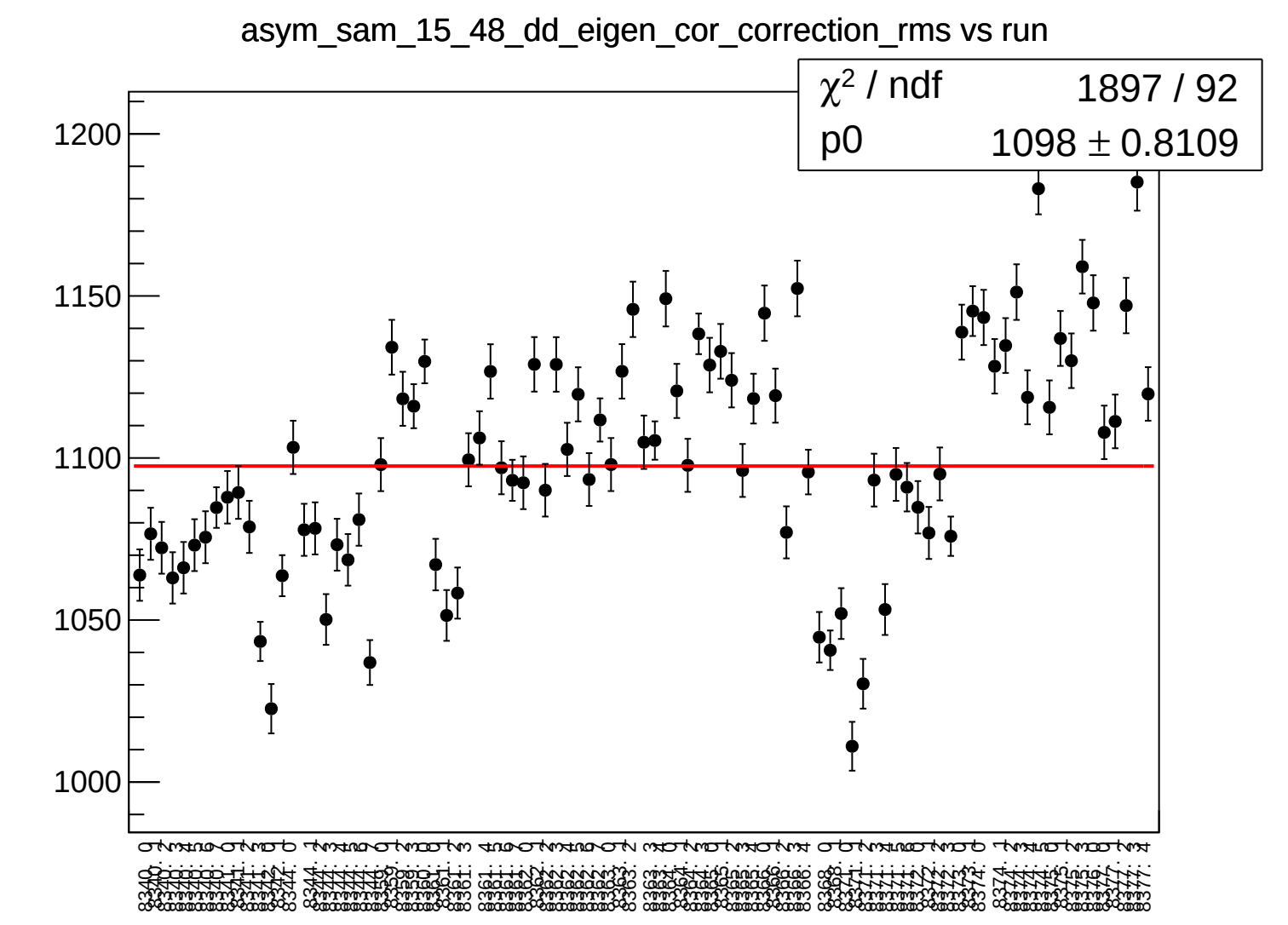

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.34 / 92
p0 −162.7 ± 66.47
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 41.92
Std Dev 60.78
3
2
1
0
−1
−2

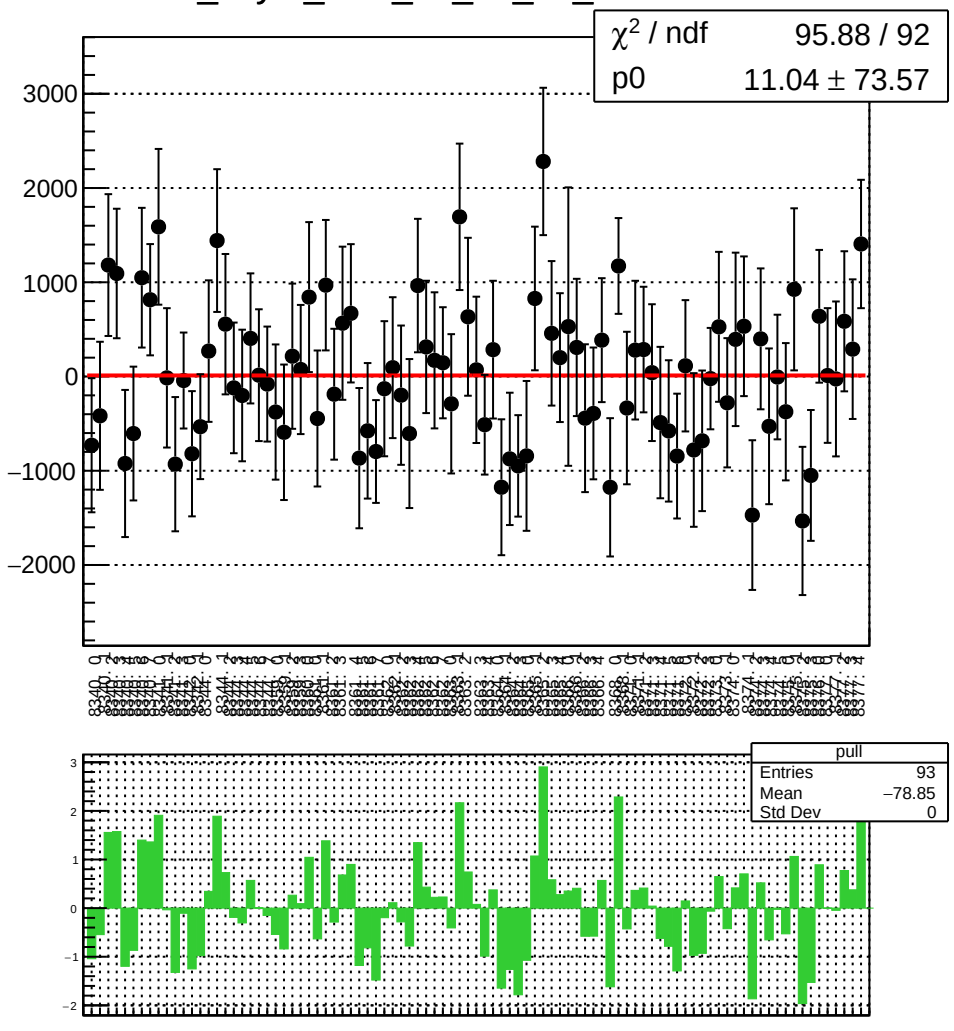

pull1D
Entries 93
Mean 0.00876
Std Dev 0.9691
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

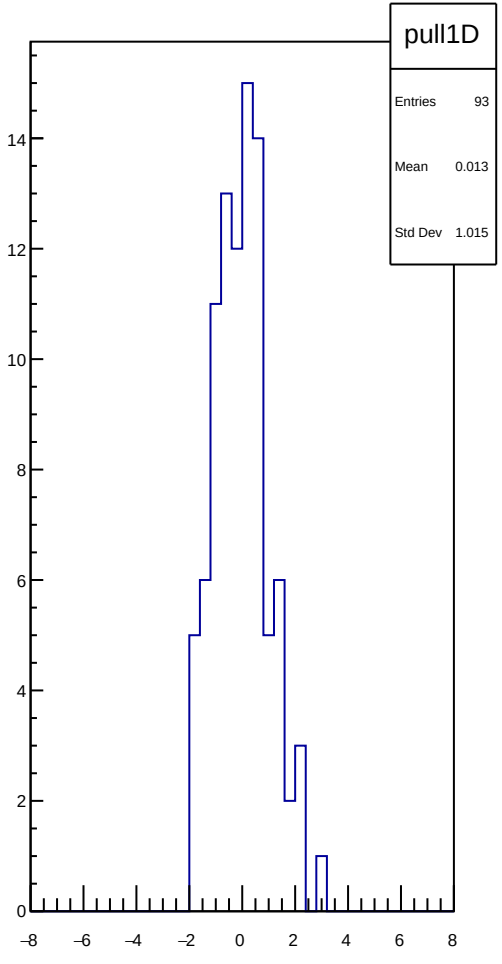

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.526e+04 / 92
p0 63.38 ± 0.047
140
120
100
80
60

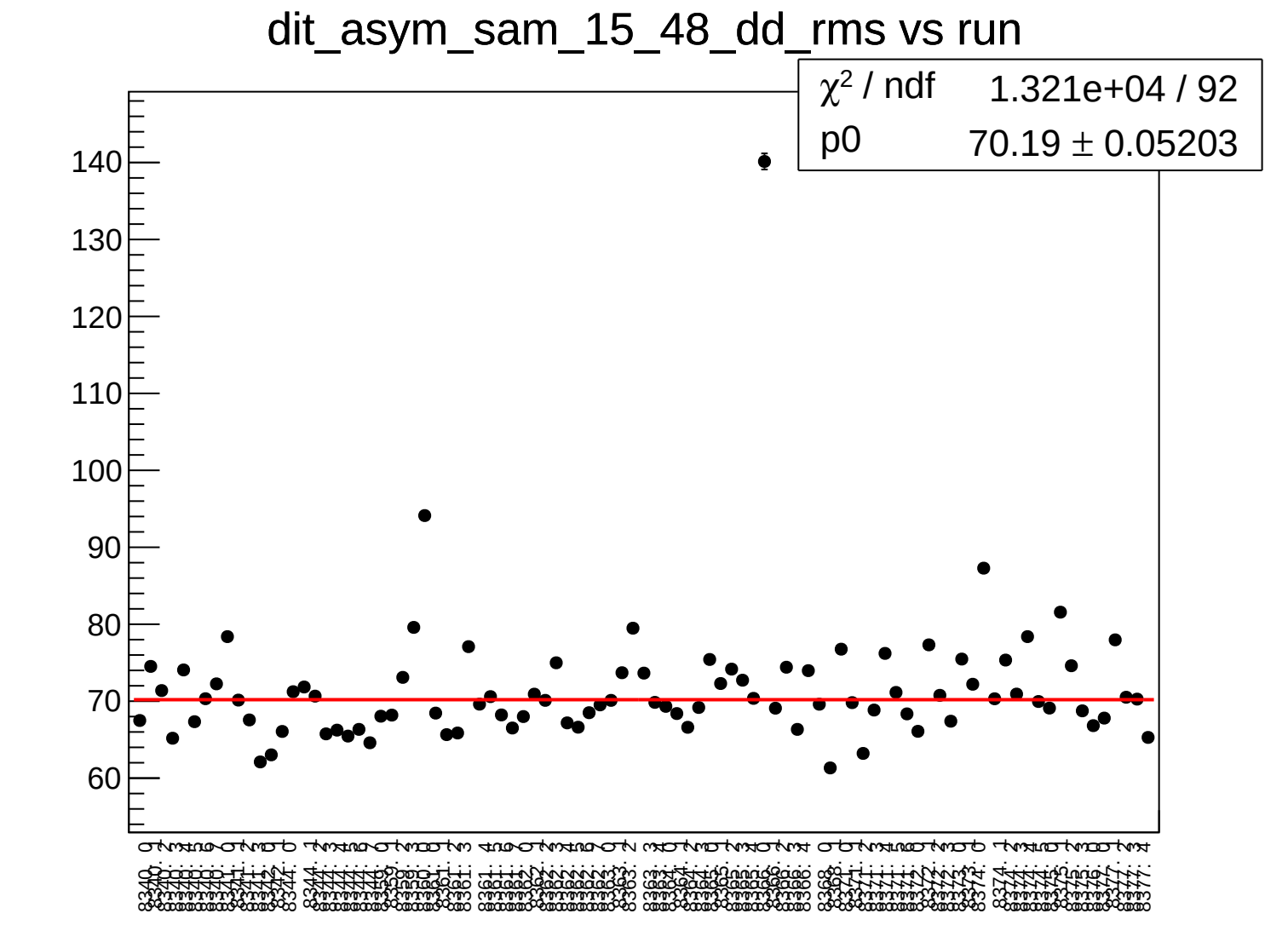

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.1 / 92
p0 2469 ± 1147
pull
Entries 93
Mean −186.3
Std Dev 0

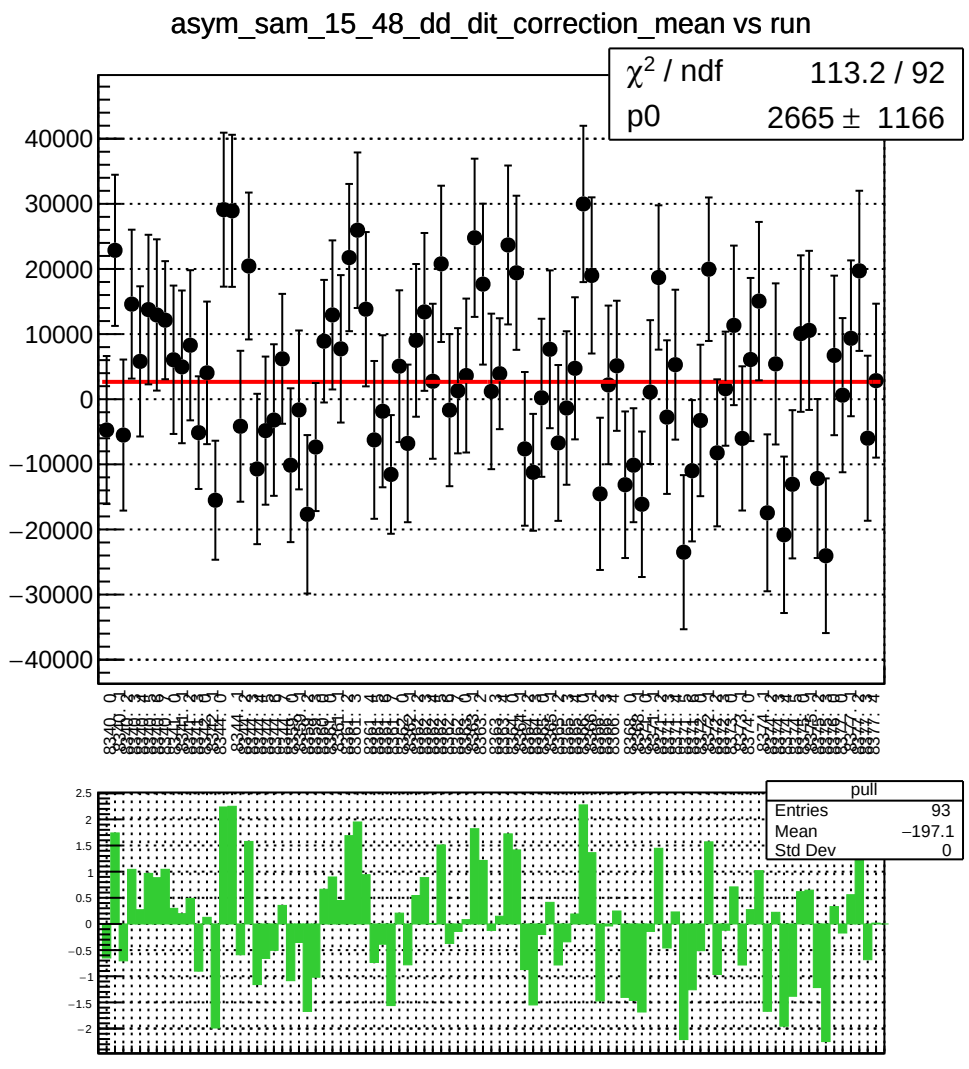

pull1D
Entries 93
Mean 0.02449
Std Dev 1.102

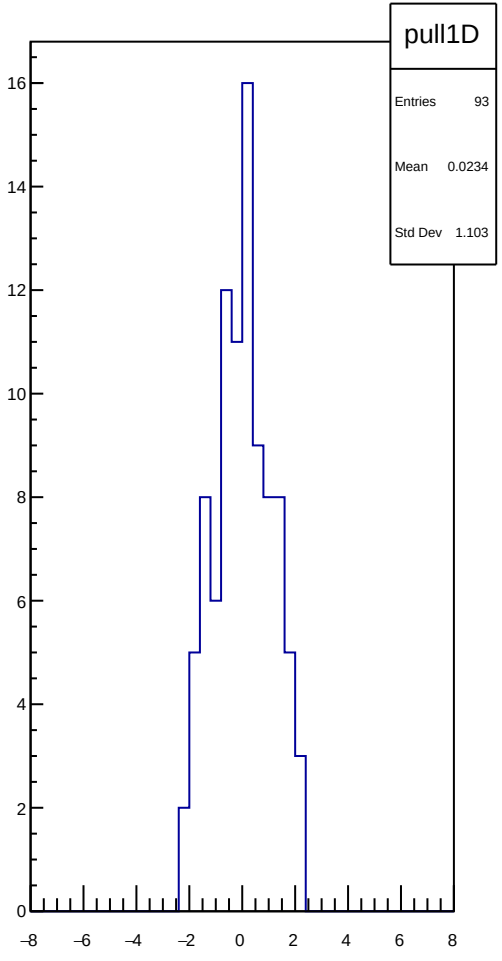

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1897 / 92
p0 1098 ± 0.8109
1200
1150
1100
1050
1000

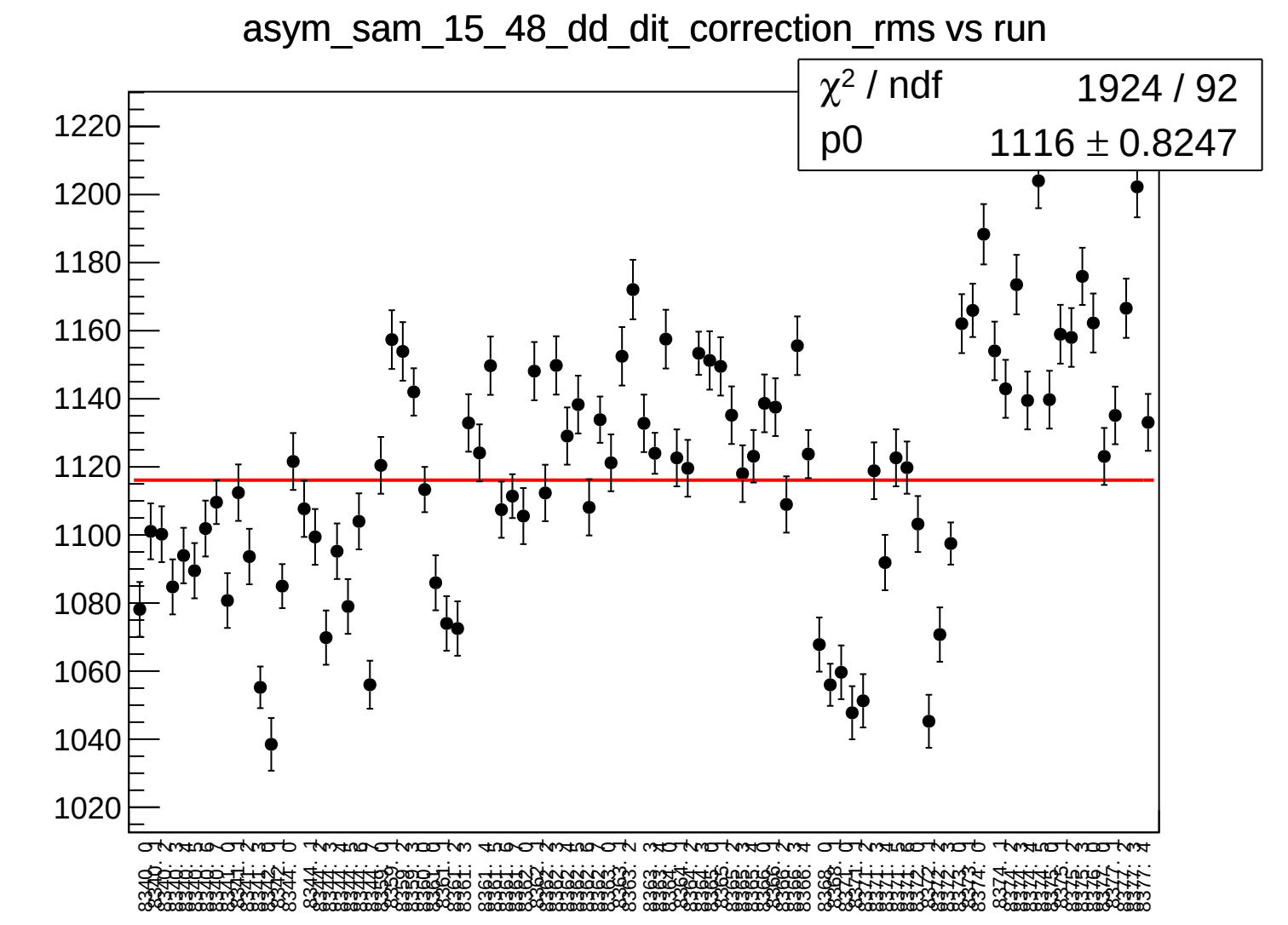

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.88 / 92
p0 11.04 ± 73.57
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −78.85
Std Dev 0
3
2
1
0
−1
−2

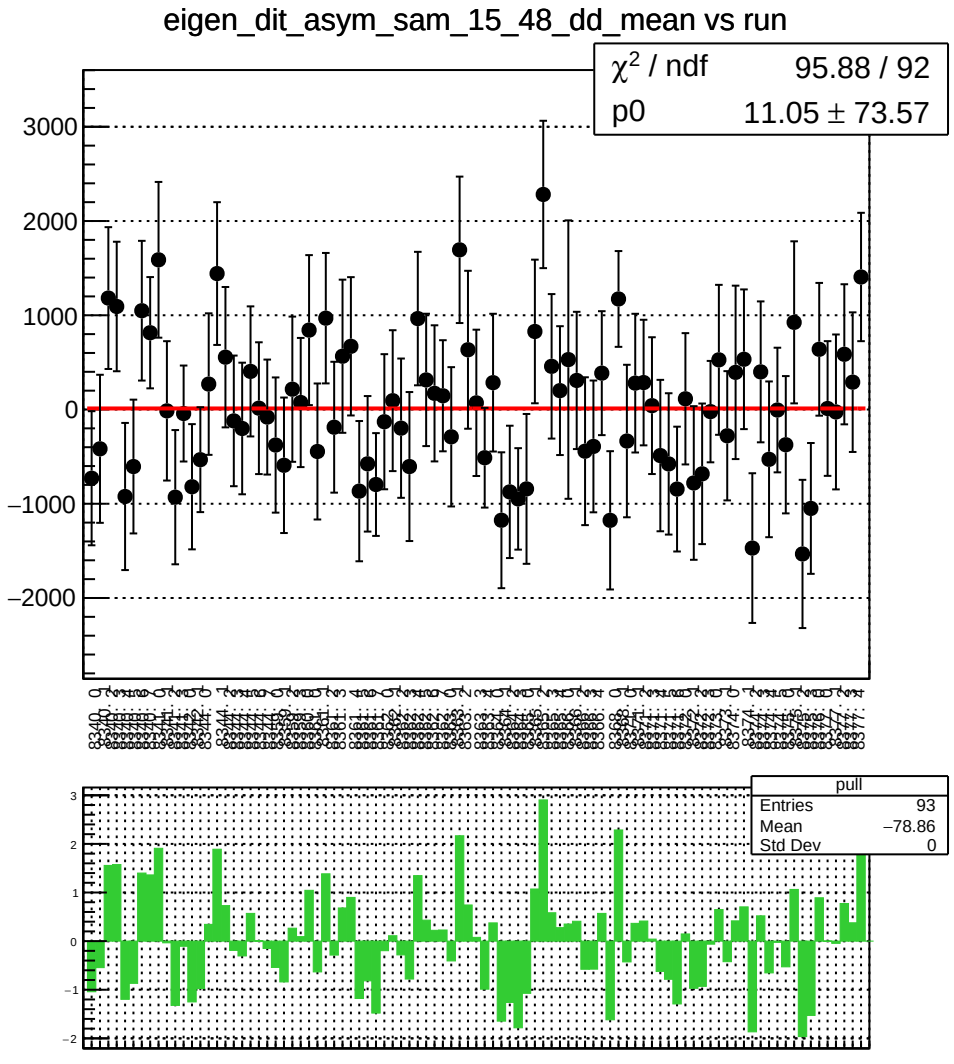

pull1D
Entries 93
Mean 0.013
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

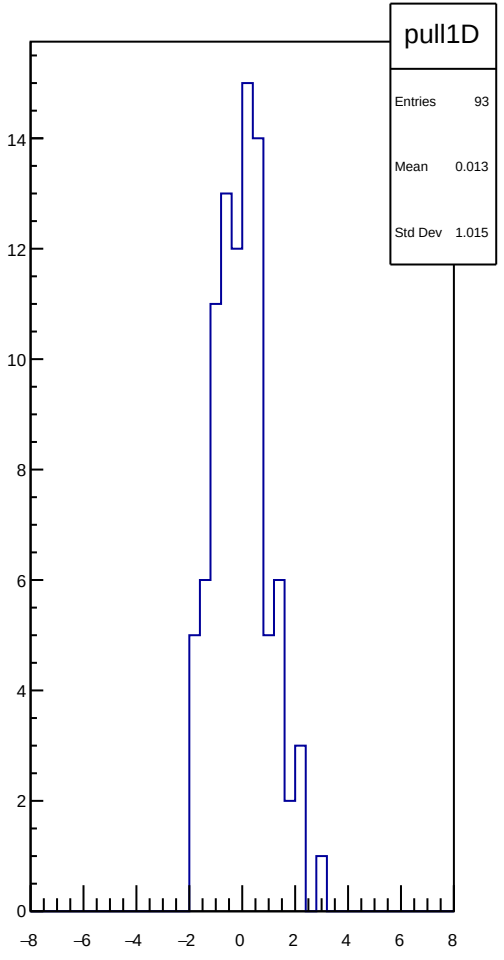

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.321e+04 / 92
p0 70.19 ± 0.05203
140
130
120
110
100
90
80
70
60

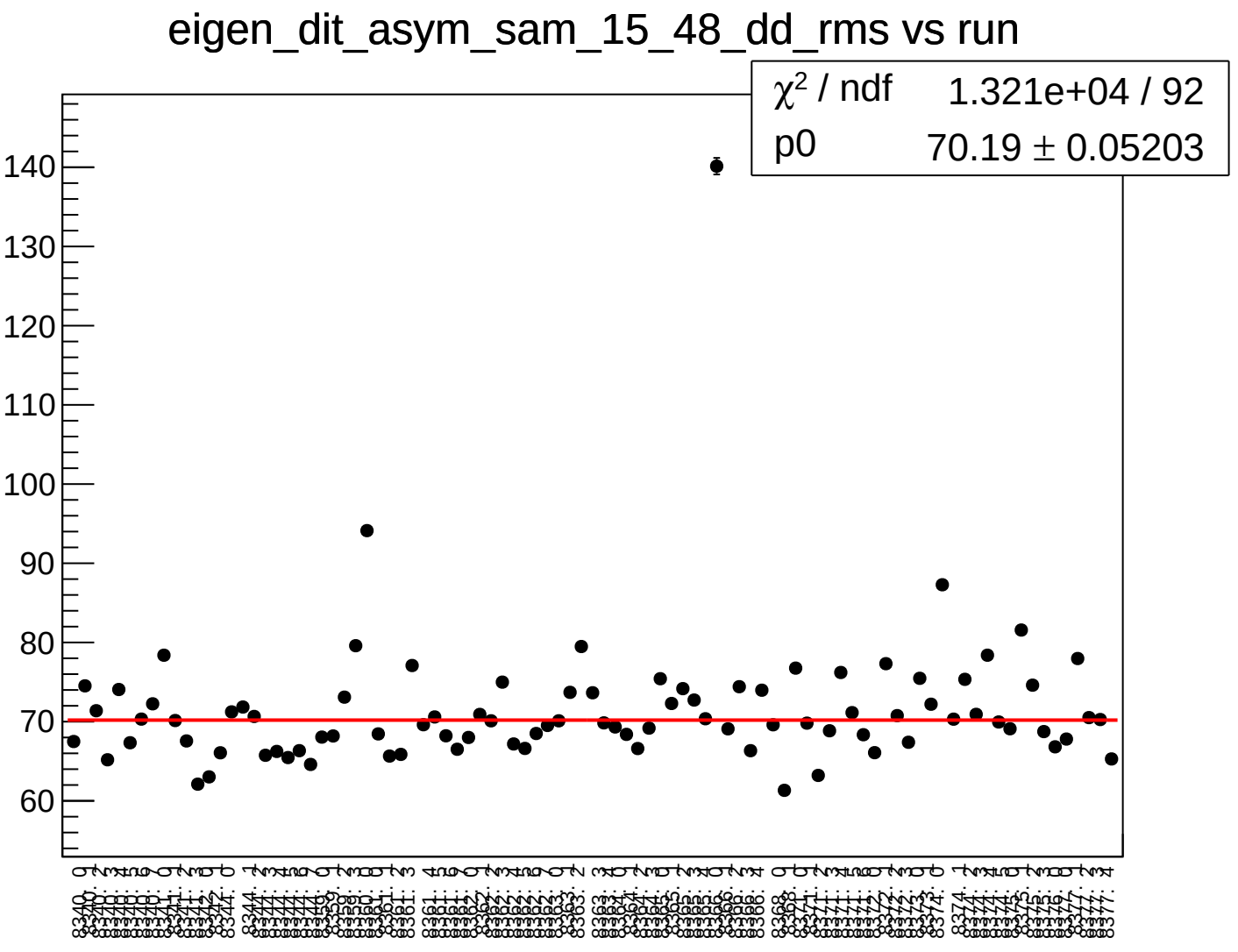

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 113.2 / 92
p0 2665 ± 1166
pull
Entries 93
Mean −197.1
Std Dev 0

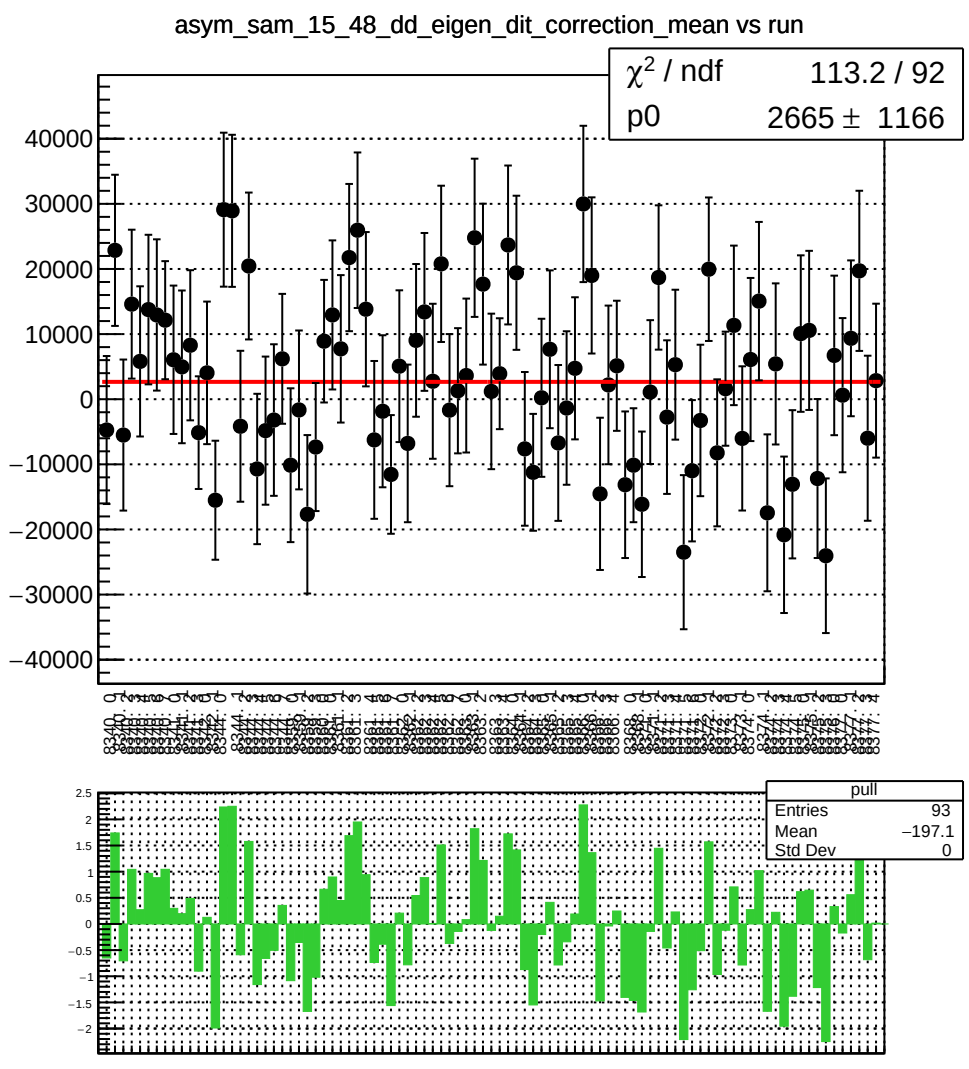

pull1D
Entries 93
Mean 0.0234
Std Dev 1.103

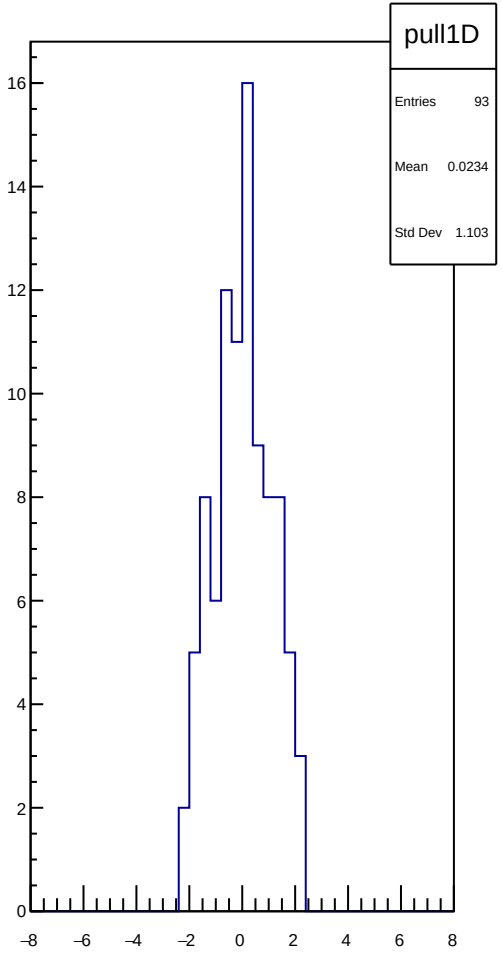

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1924 / 92
p0 1116 ± 0.8247
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

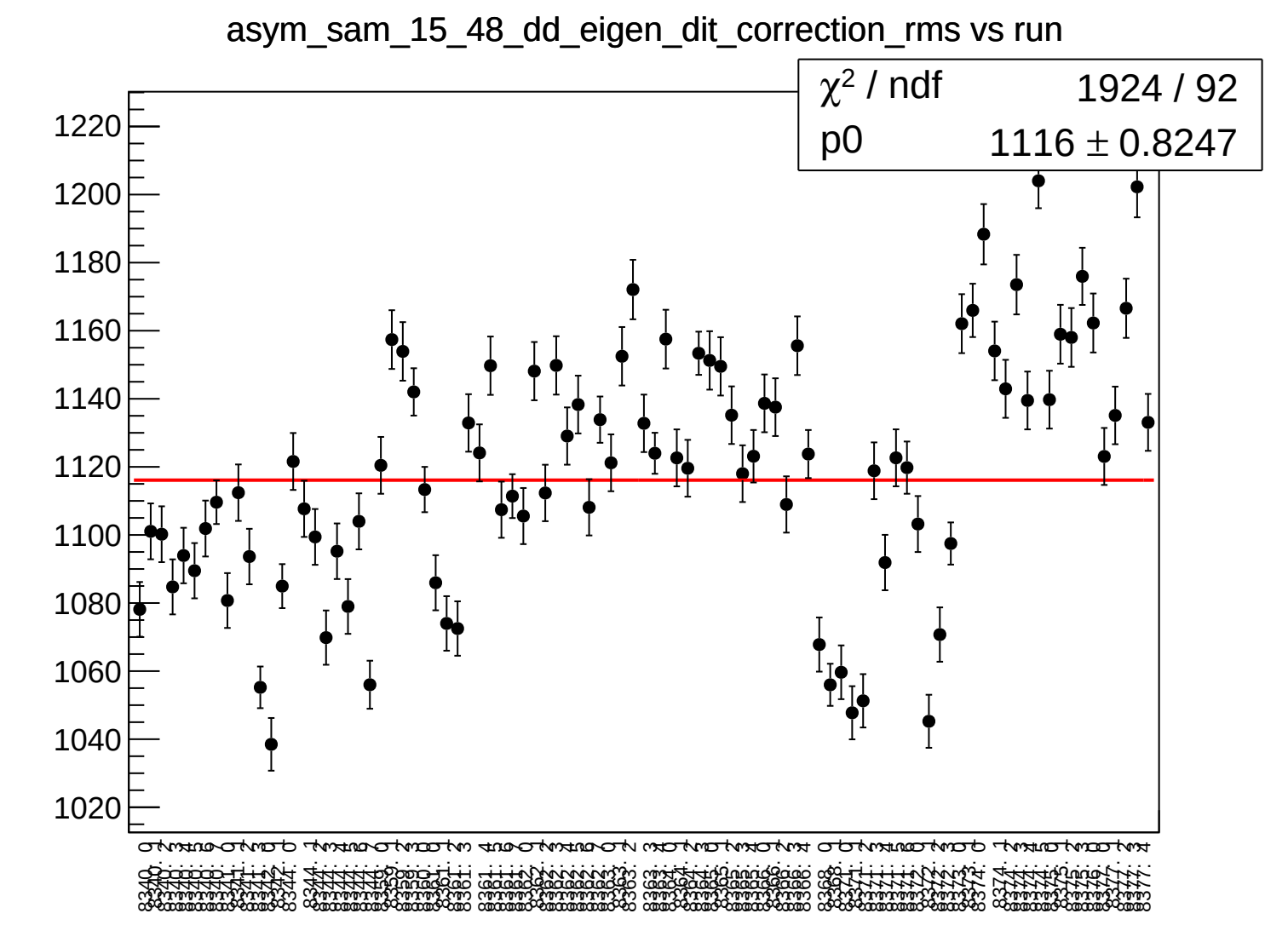

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 95.88 / 92
p0 11.05 ± 73.57
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −78.86
Std Dev 0
3
2
1
0
−1
−2

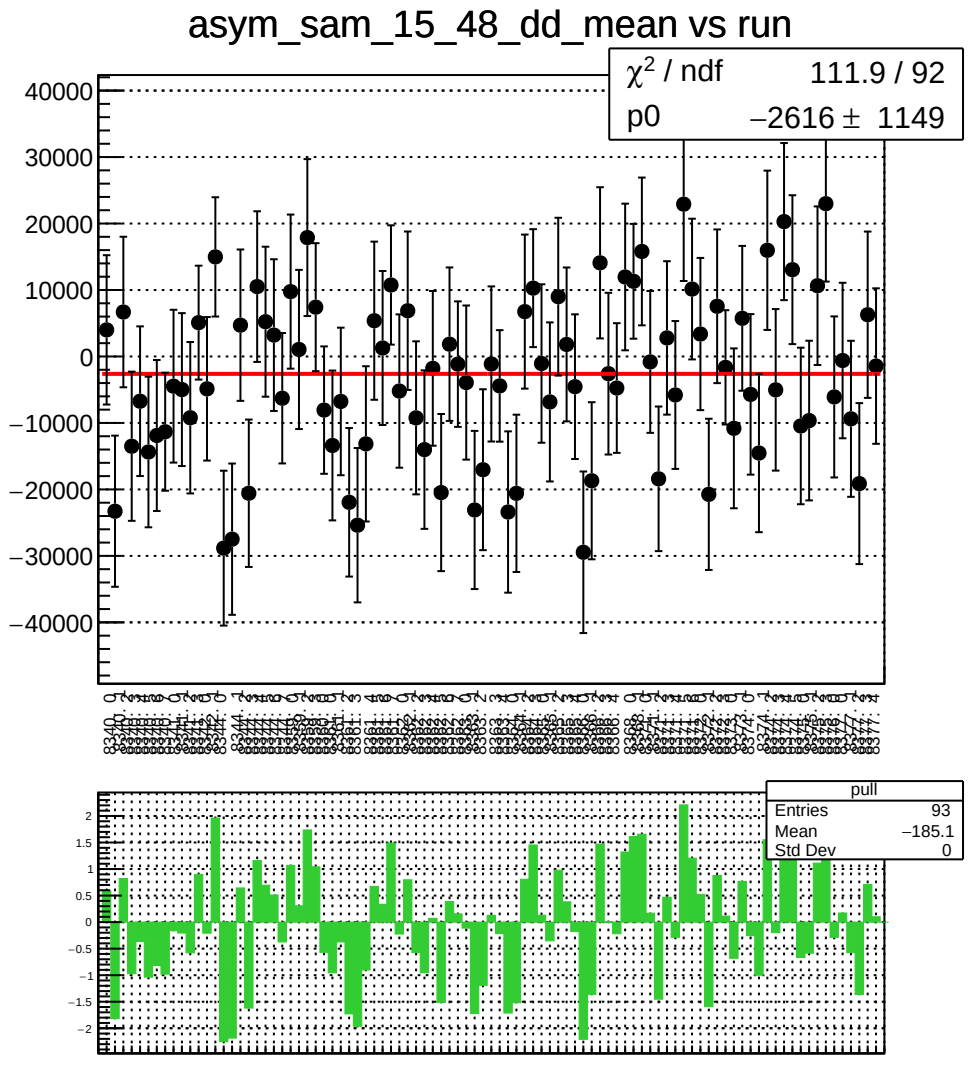

pull1D
Entries 93
Mean 0.013
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

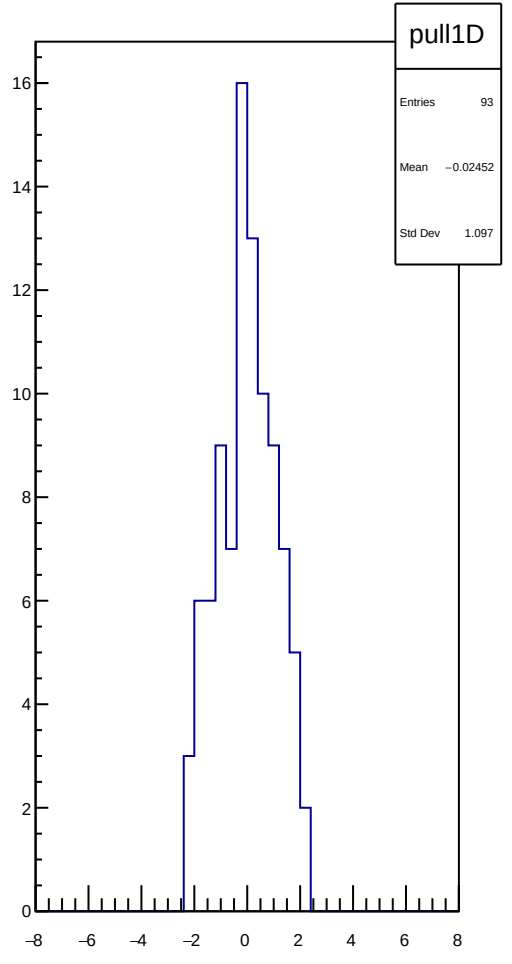

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.321e+04 / 92
p0 70.19 ± 0.05203
140
130
120
110
100
90
80
70
60

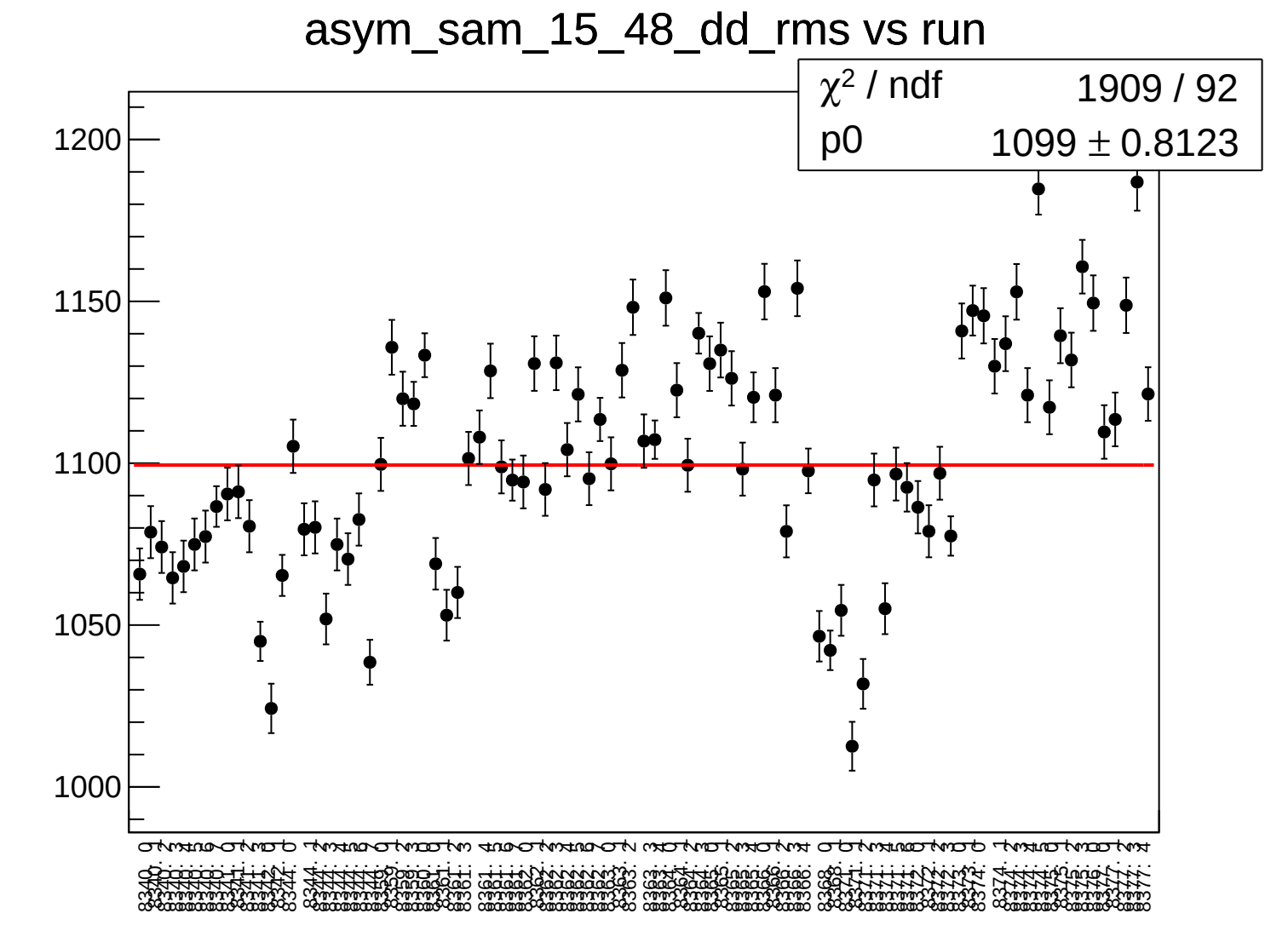

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.2 / 92
p0 2665 ± 1166
pull
Entries 93
Mean −197.1
Std Dev 0

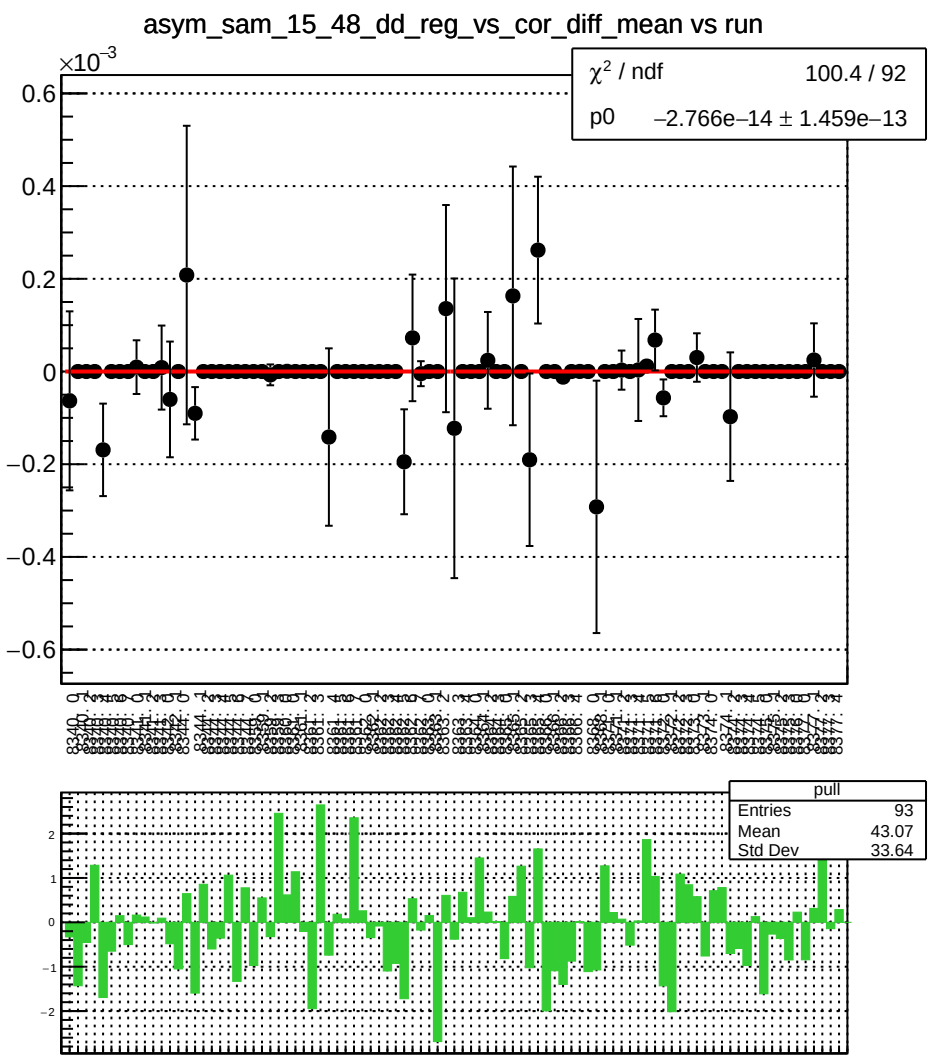

pull1D
Entries 93
Mean 0.0234
Std Dev 1.103

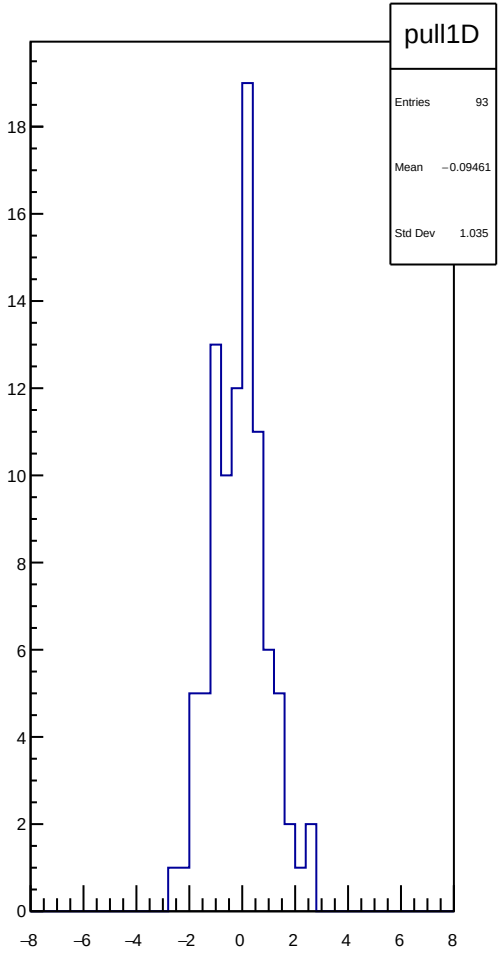

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1924 / 92
p0 1116 ± 0.8247
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

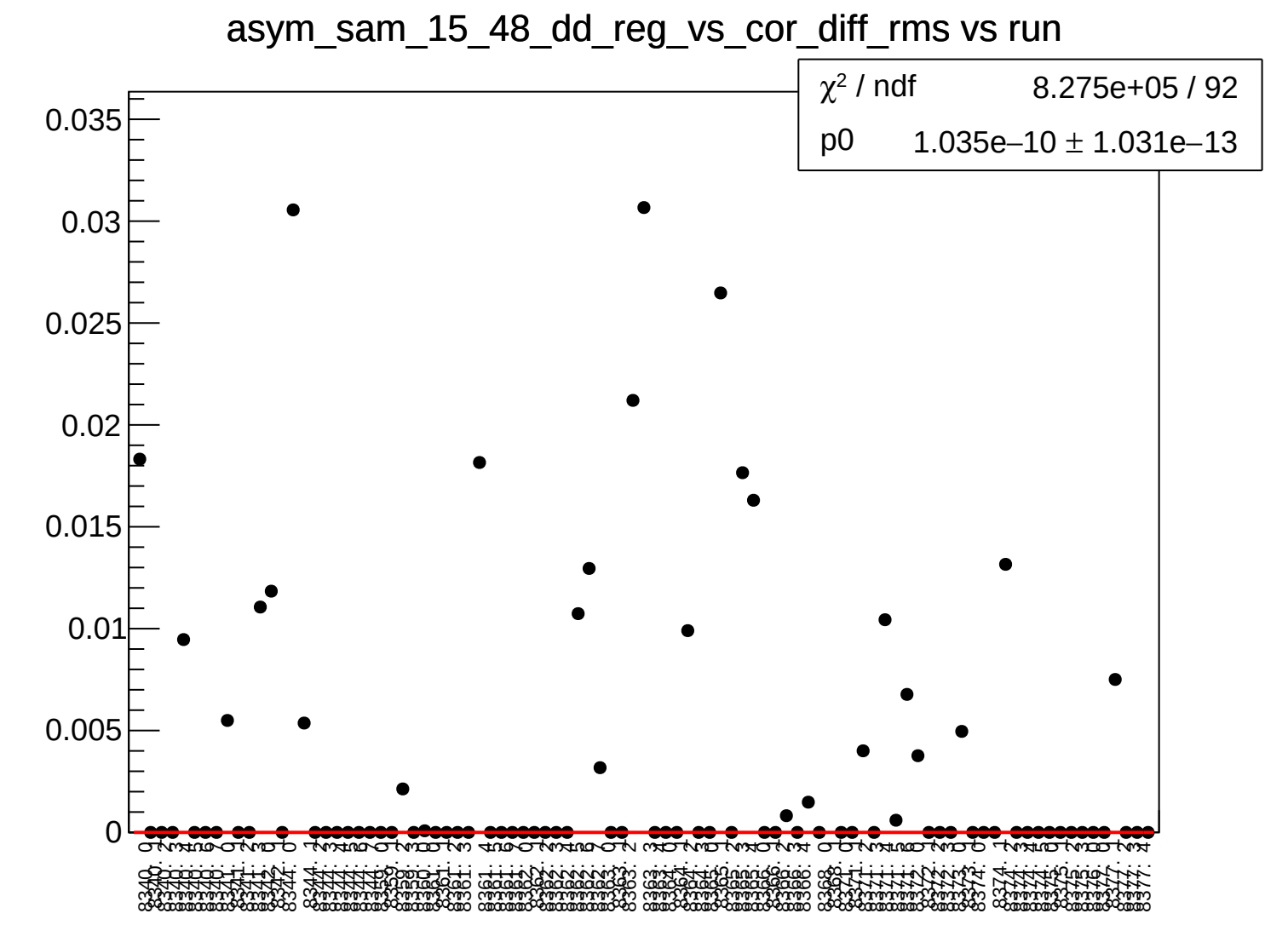

asym_sam_15_48_dd_mean vs run
χ² / ndf 111.9 / 92
p0 −2616 ± 1149
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −185.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

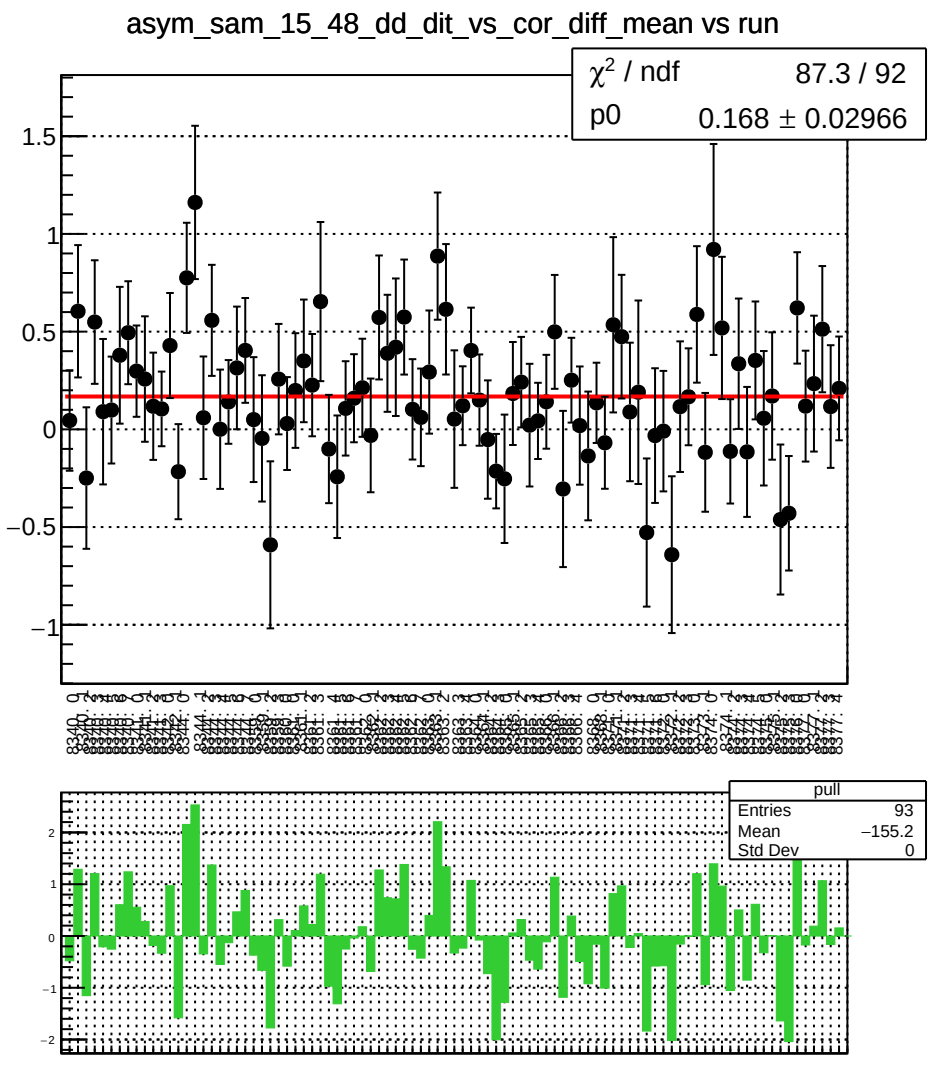

pull1D
Entries 93
Mean −0.02452
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

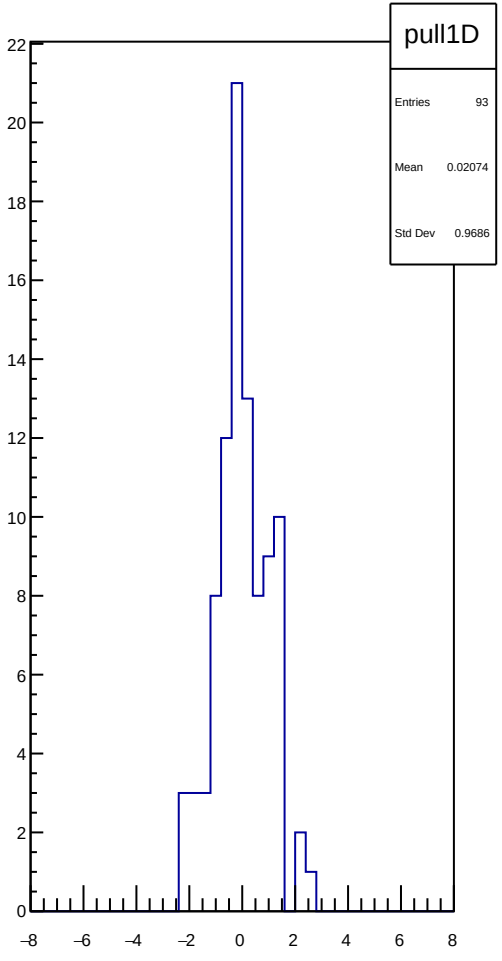

asym_sam_15_48_dd_rms vs run
χ² / ndf 1909 / 92
p0 1099 ± 0.8123
1200
1150
1100
1050
1000

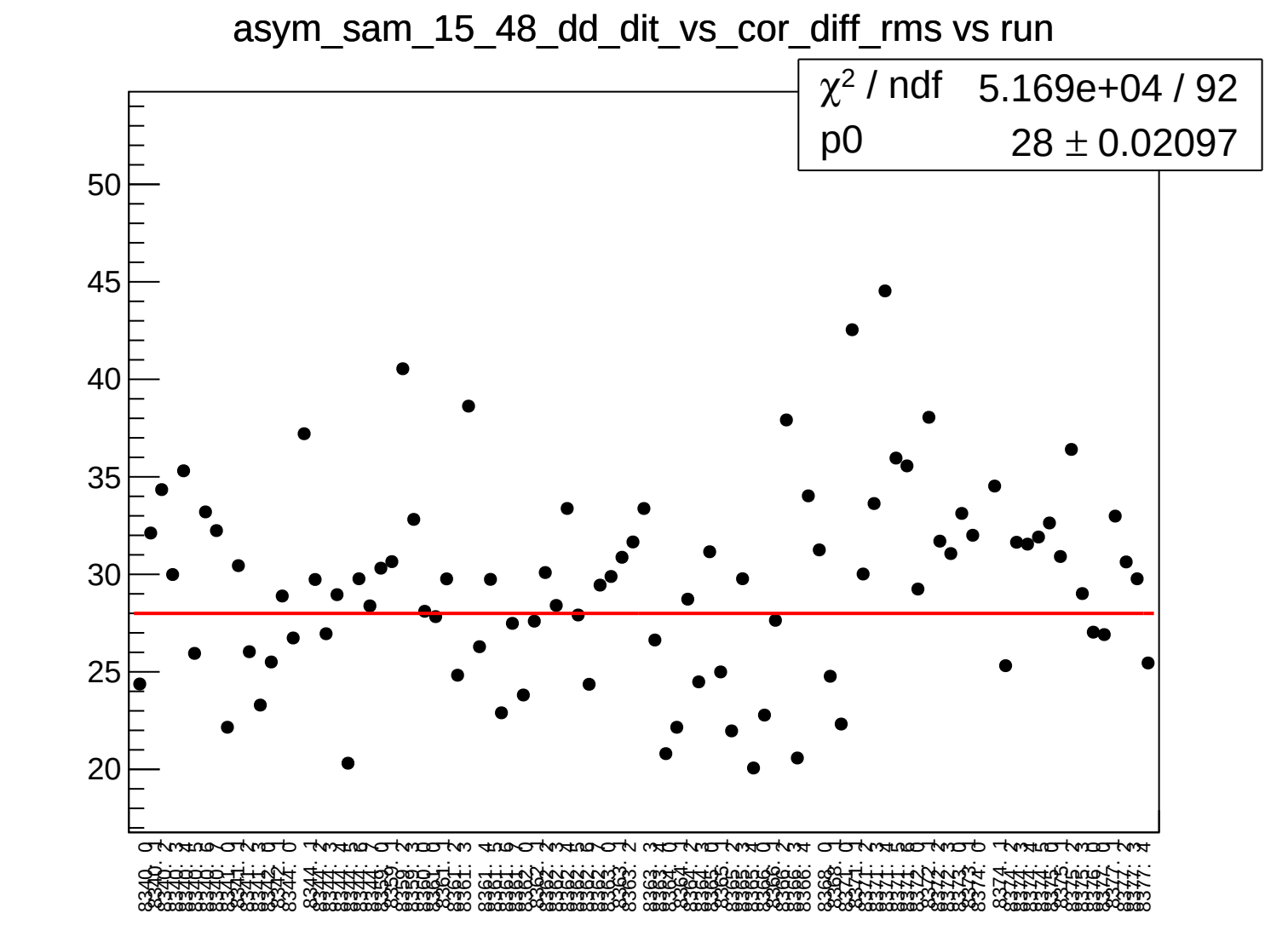

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.4 / 92
p0 −2.766e−14 ± 1.459e−13
pull
Entries 93
Mean 43.07
Std Dev 33.64

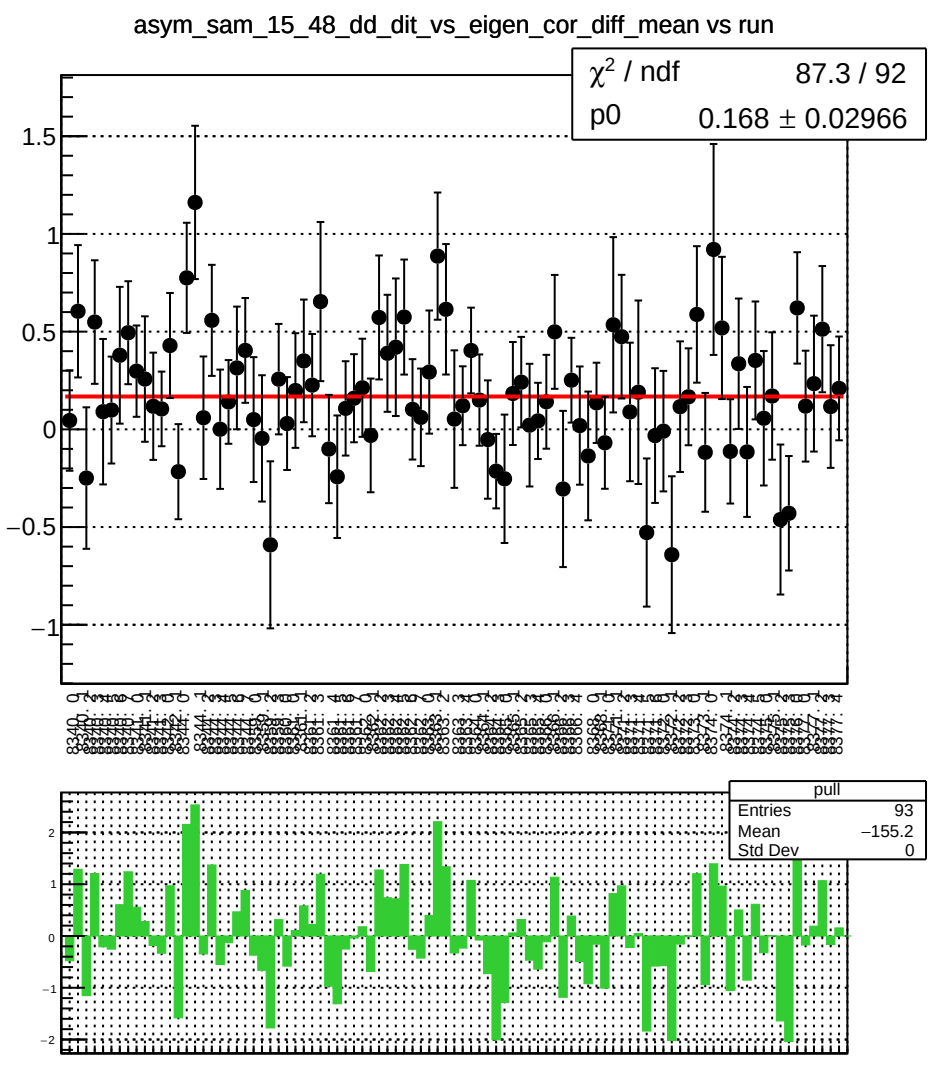

pull1D
Entries 93
Mean −0.09461
Std Dev 1.035

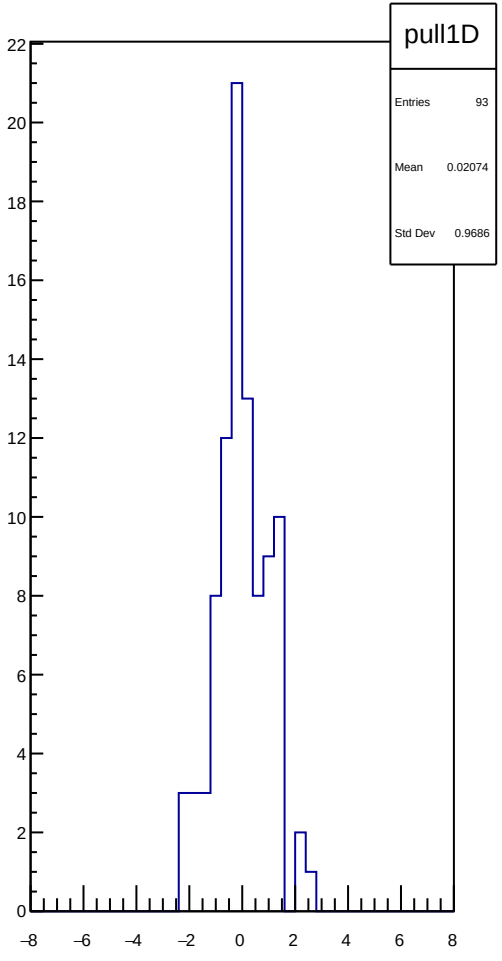

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.275e+05 / 92
p0 1.035e−10 ± 1.031e−13
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

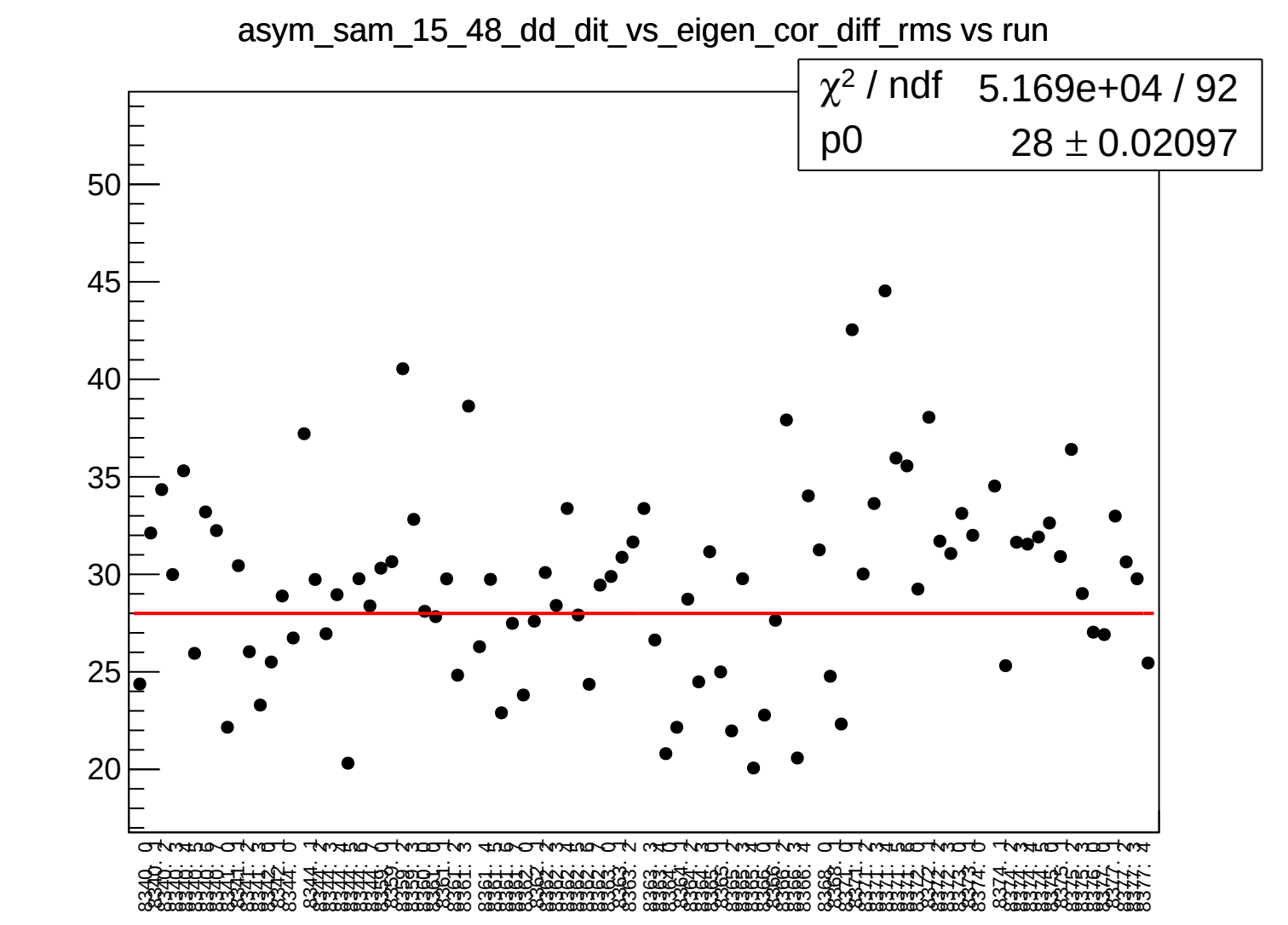

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 92
p0 0.168 ± 0.02966
pull
Entries 93
Mean −155.2
Std Dev 0

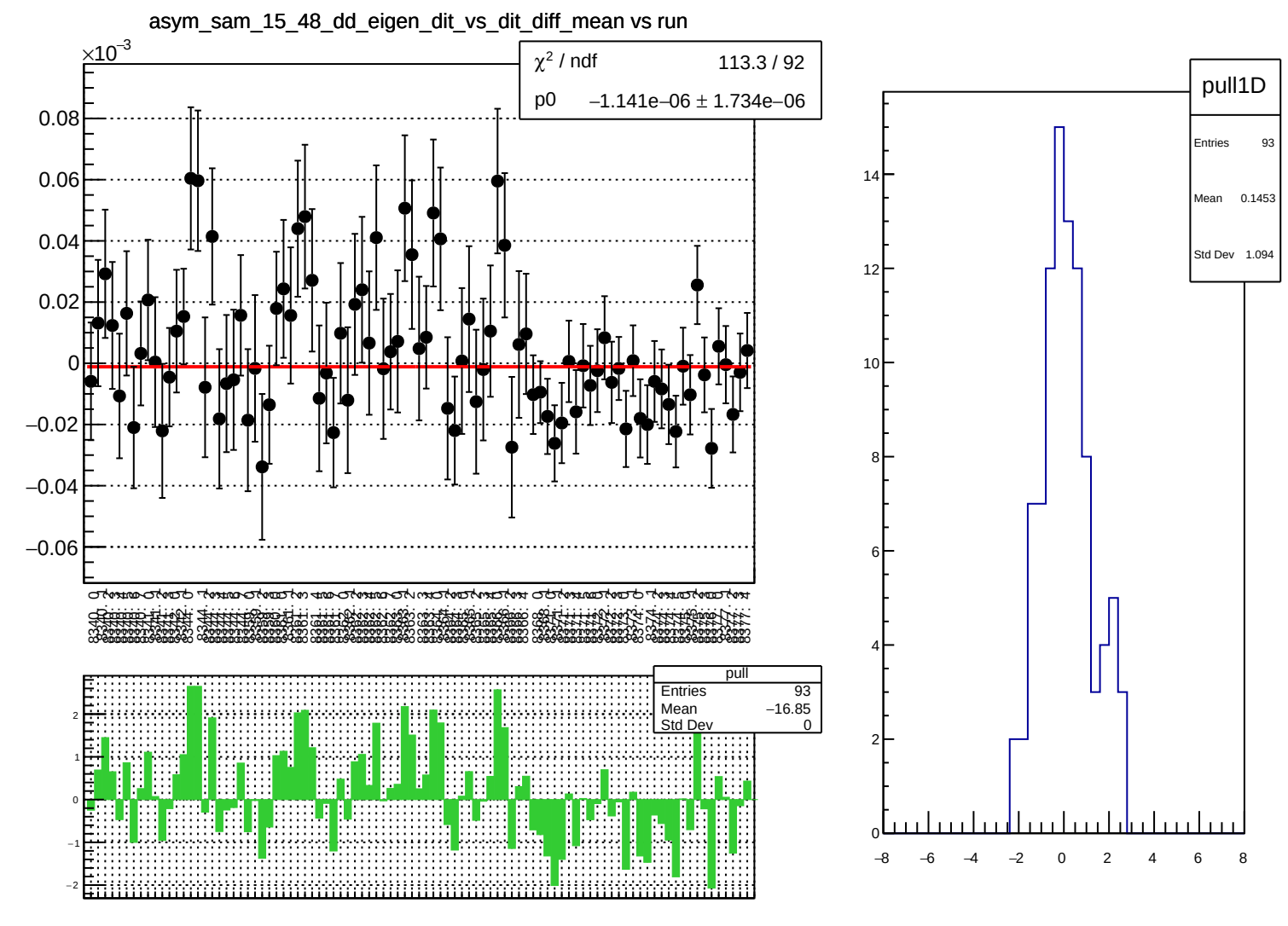

pull1D
Entries 93
Mean 0.02074
Std Dev 0.9686

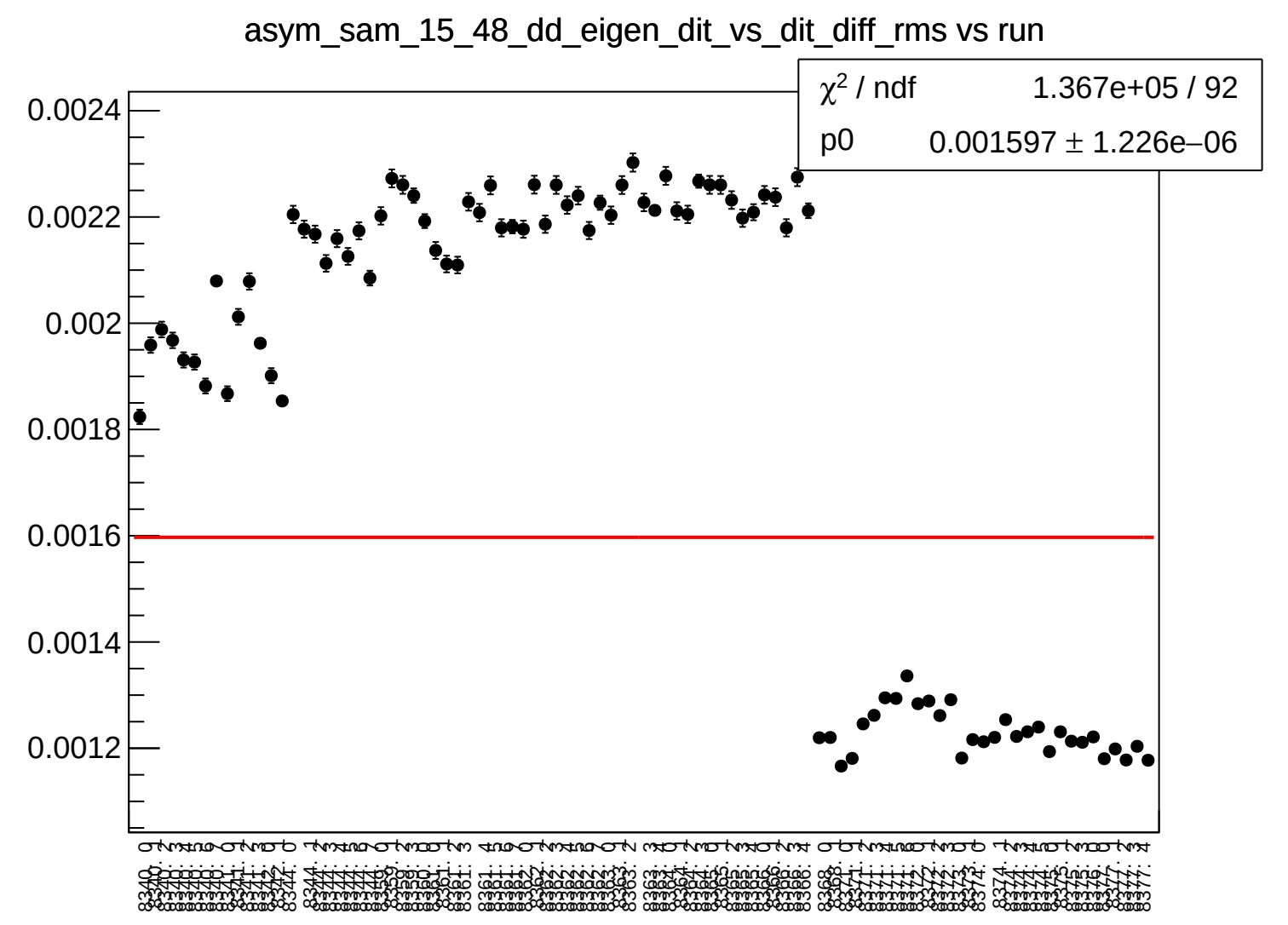

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.169e+04 / 92
p0 28 ± 0.02097
50
45
40
35
30
25
20

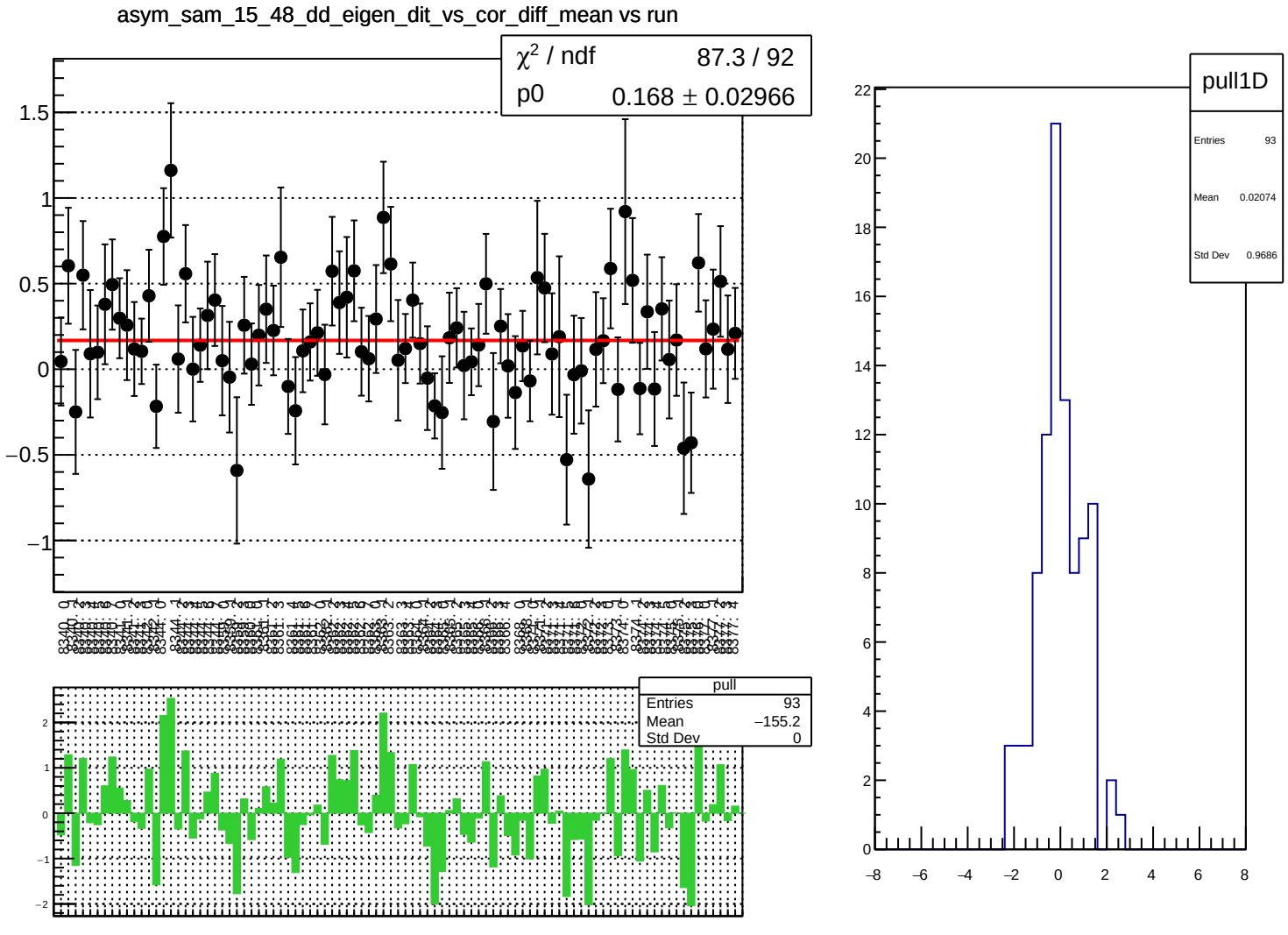

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.3 / 92
p0 0.168 ± 0.02966
pull
Entries 93
Mean −155.2
Std Dev 0

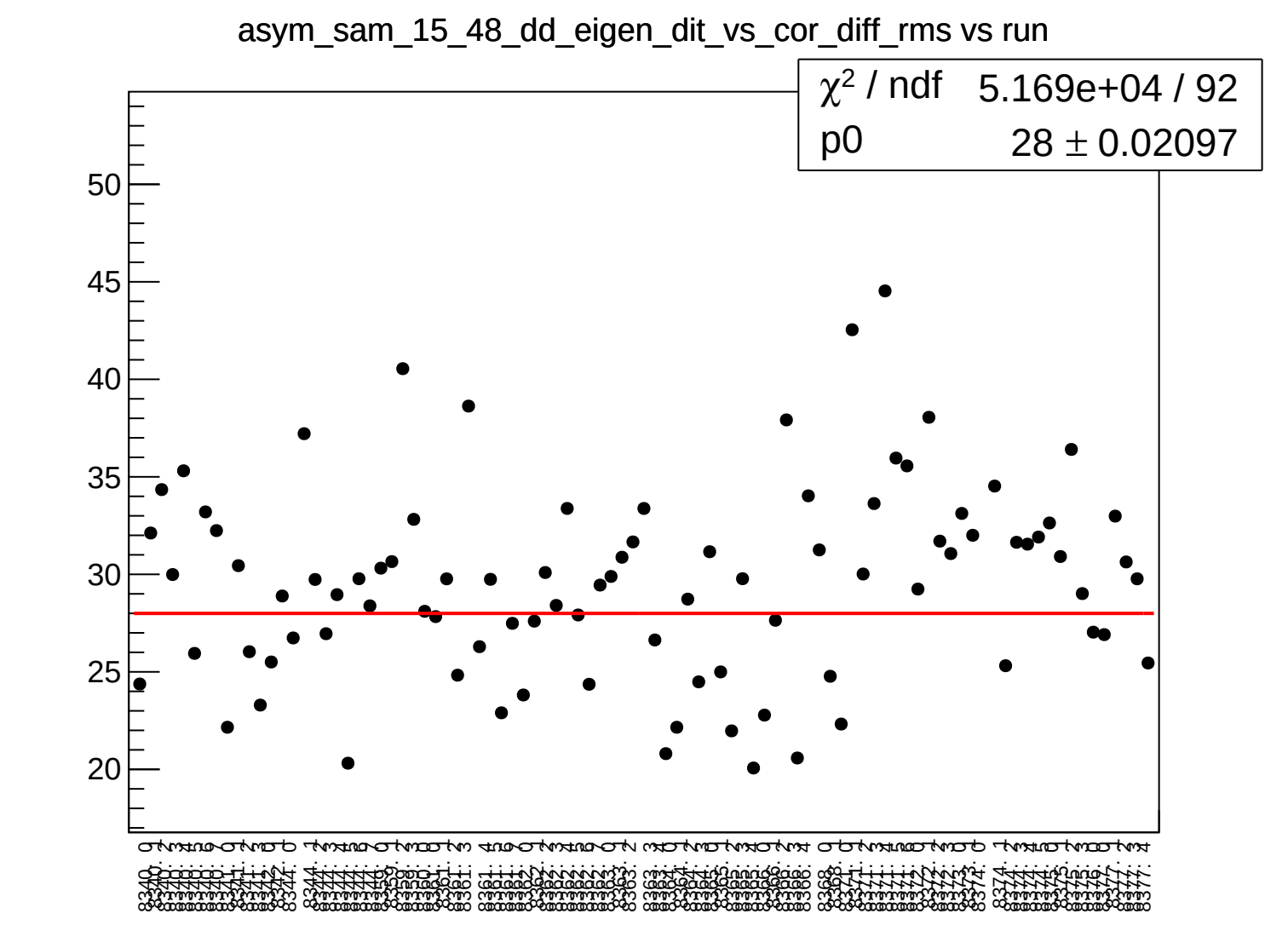

pull1D
Entries 93
Mean 0.02074
Std Dev 0.9686

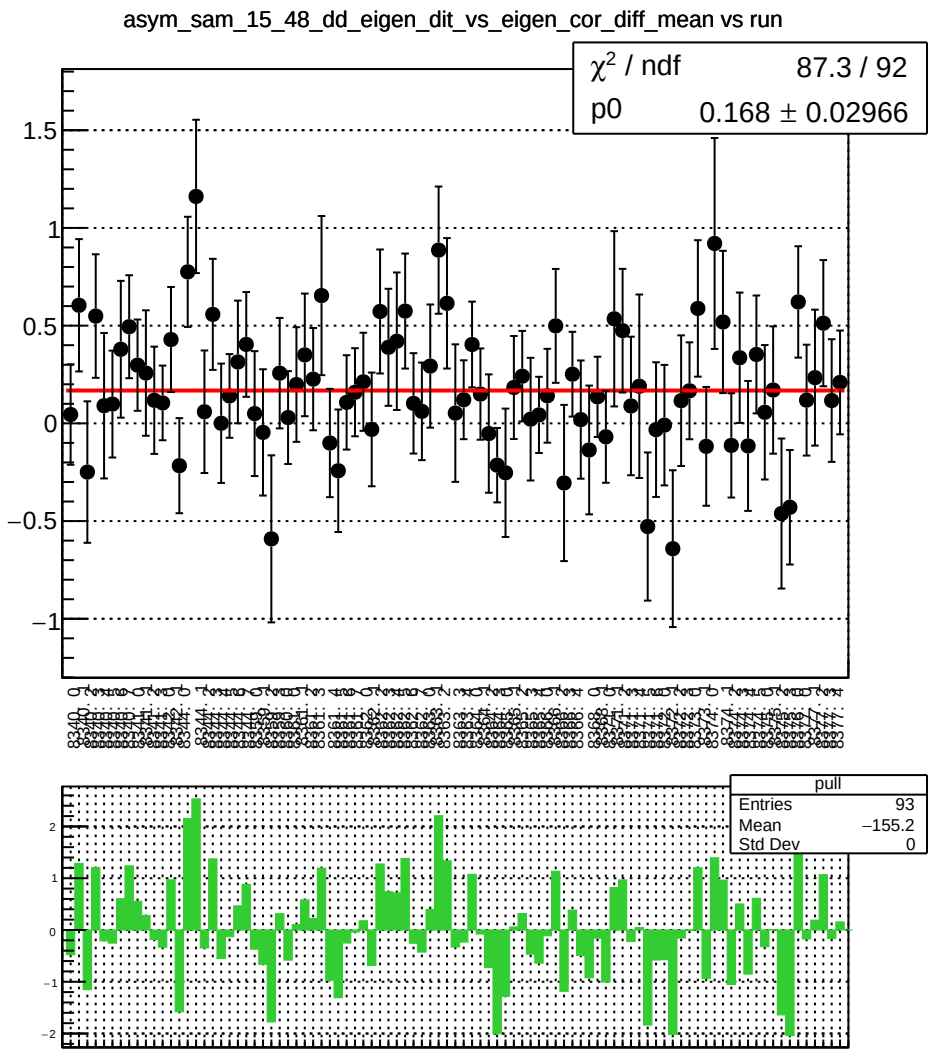

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.169e+04 / 92
p0 28 ± 0.02097
50
45
40
35
30
25
20

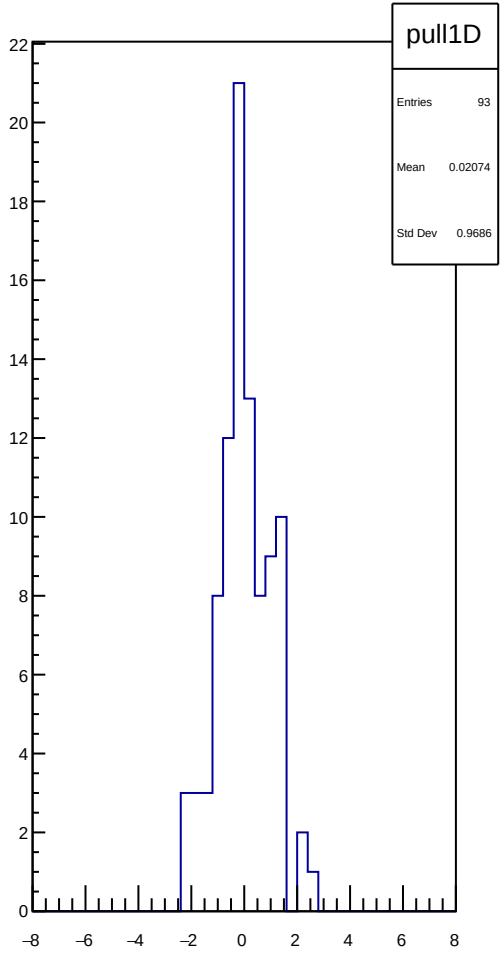

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.3 / 92
p0 −1.141e−06 ± 1.734e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 93
Mean −16.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.1453
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

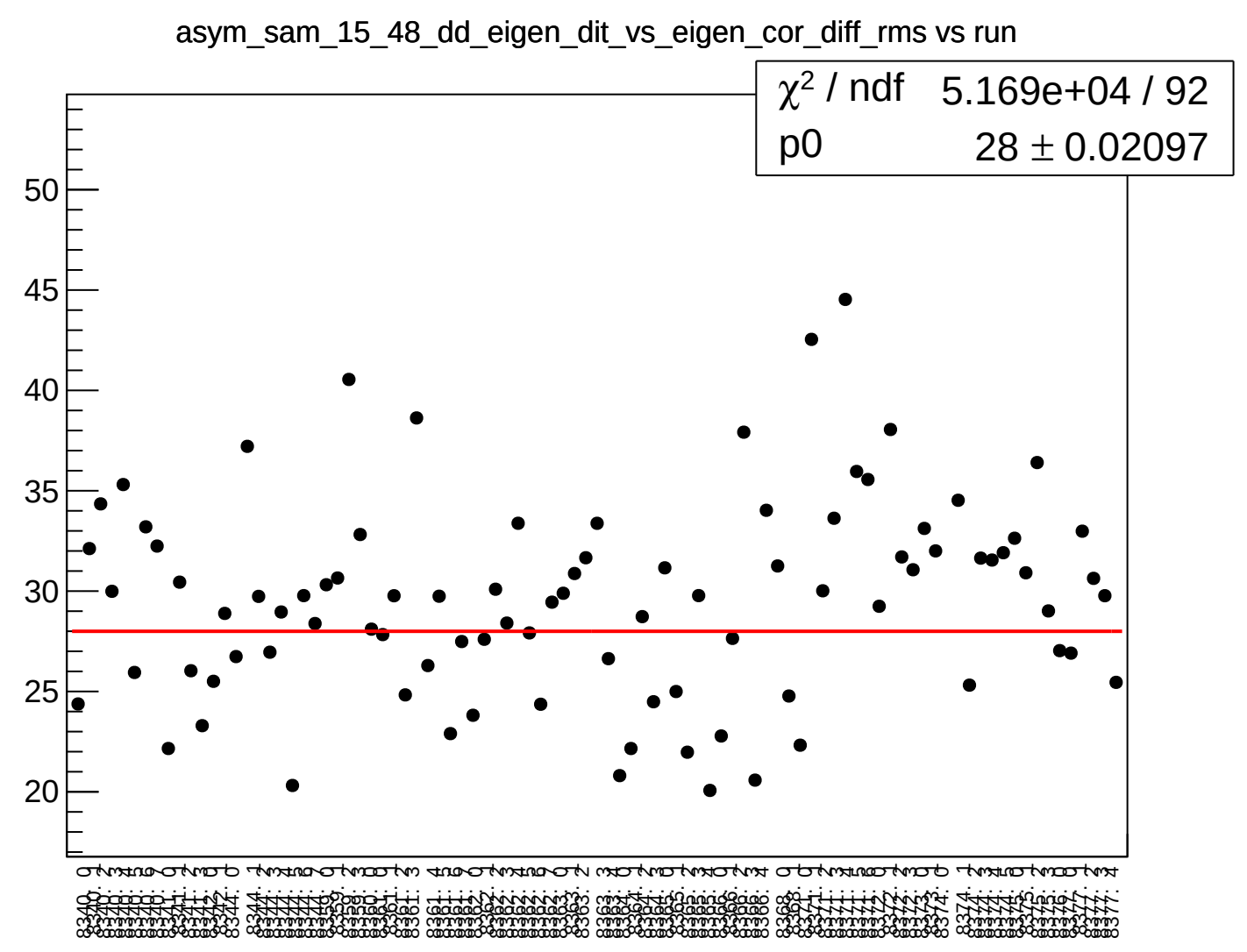

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.367e+05 / 92
p0 0.001597 ± 1.226e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

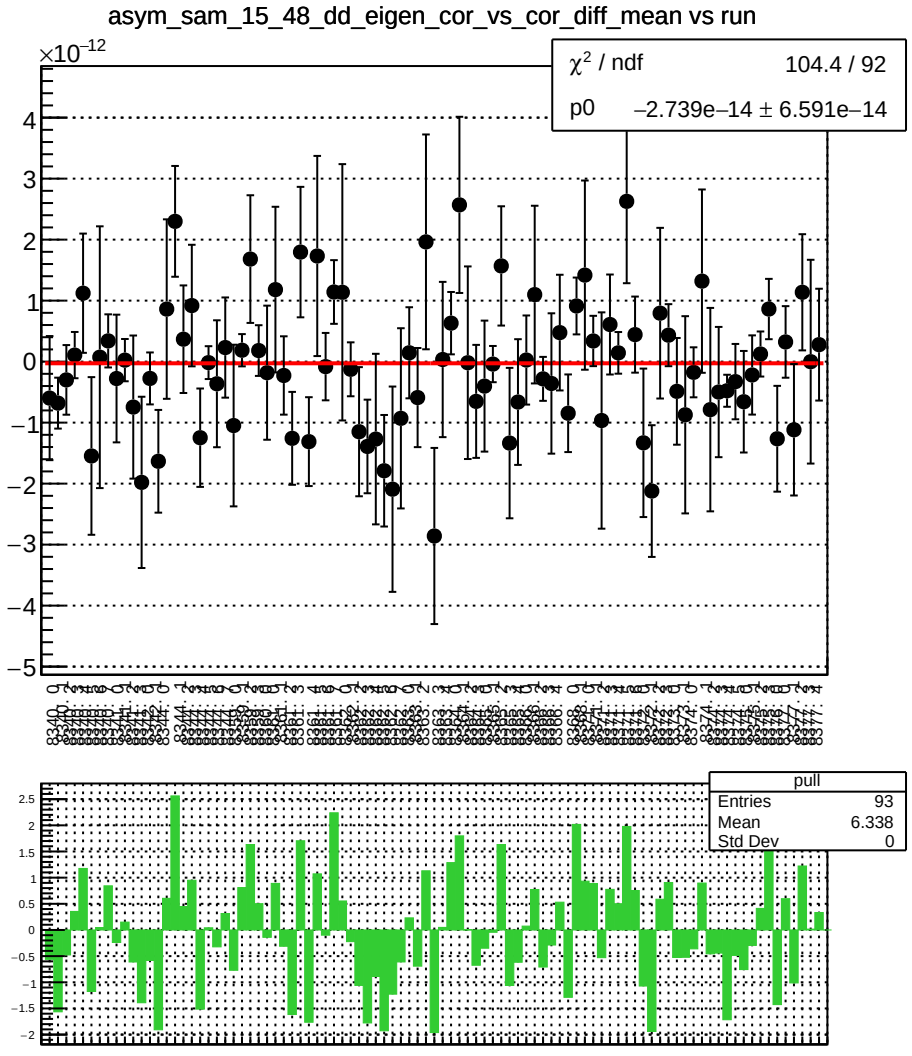

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 92
p0 0.168 ± 0.02966
pull
Entries 93
Mean −155.2
Std Dev 0
pull1D
Entries 93
Mean 0.02074
Std Dev 0.9686

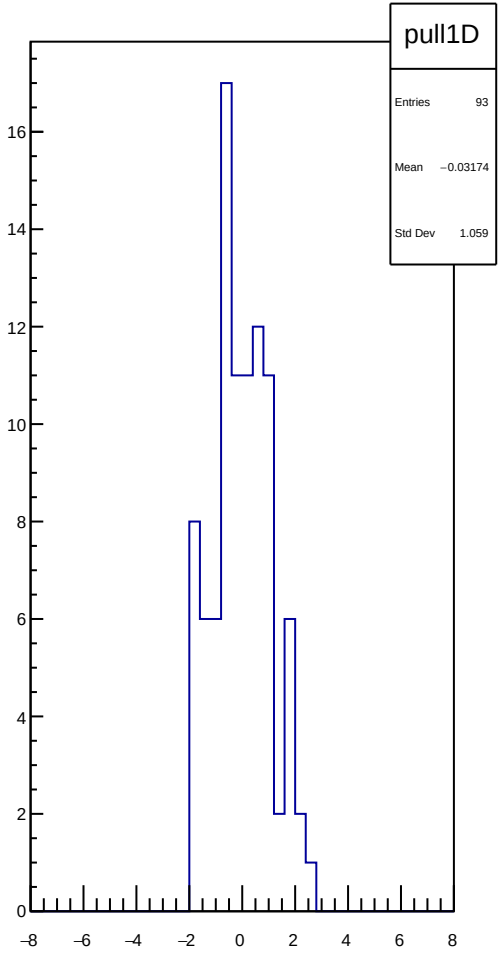

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.169e+04 / 92
p0 28 ± 0.02097
50
45
40
35
30
25
20

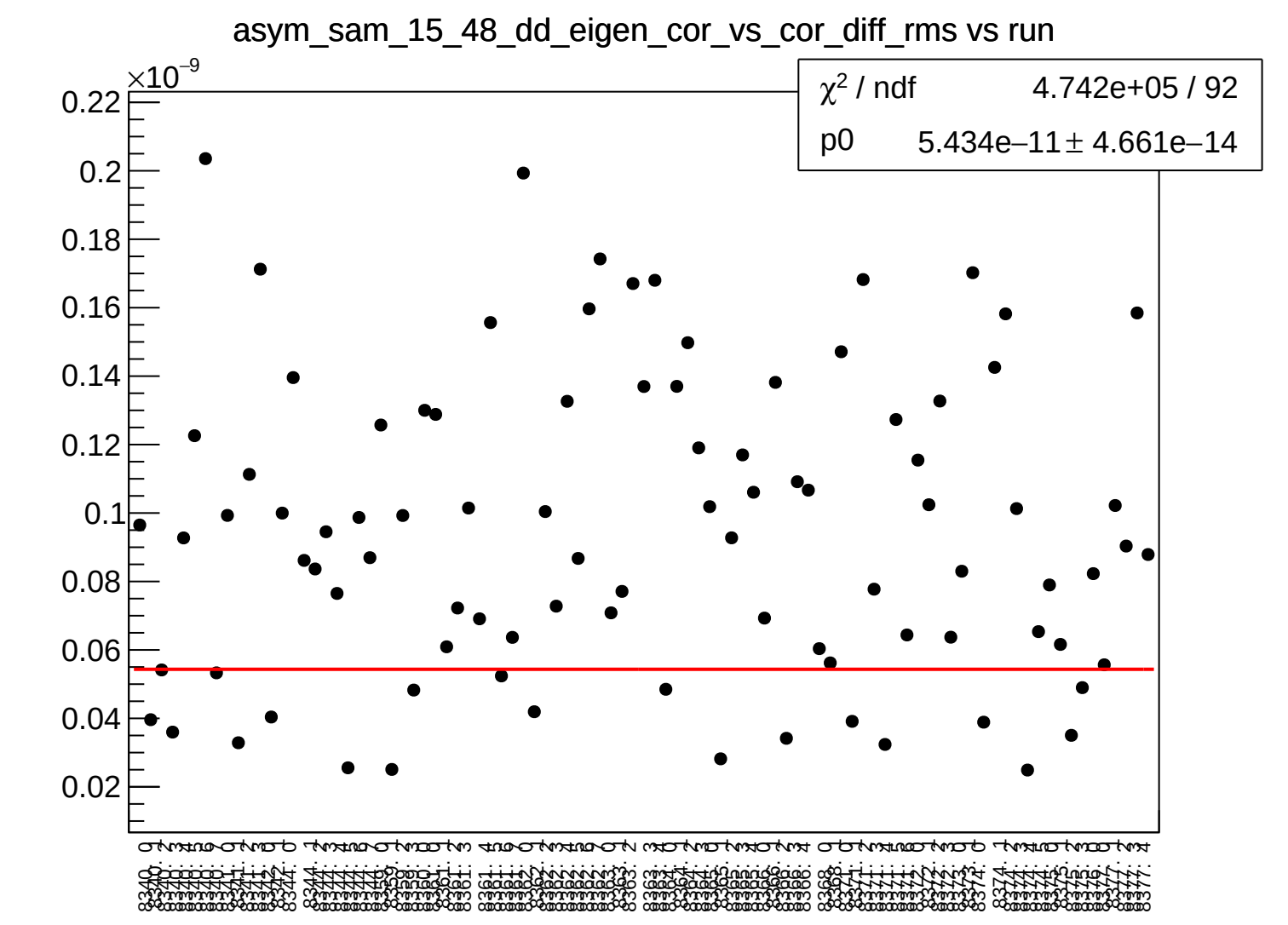

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.3 / 92
p0 0.168 ± 0.02966
pull
Entries 93
Mean −155.2
Std Dev 0

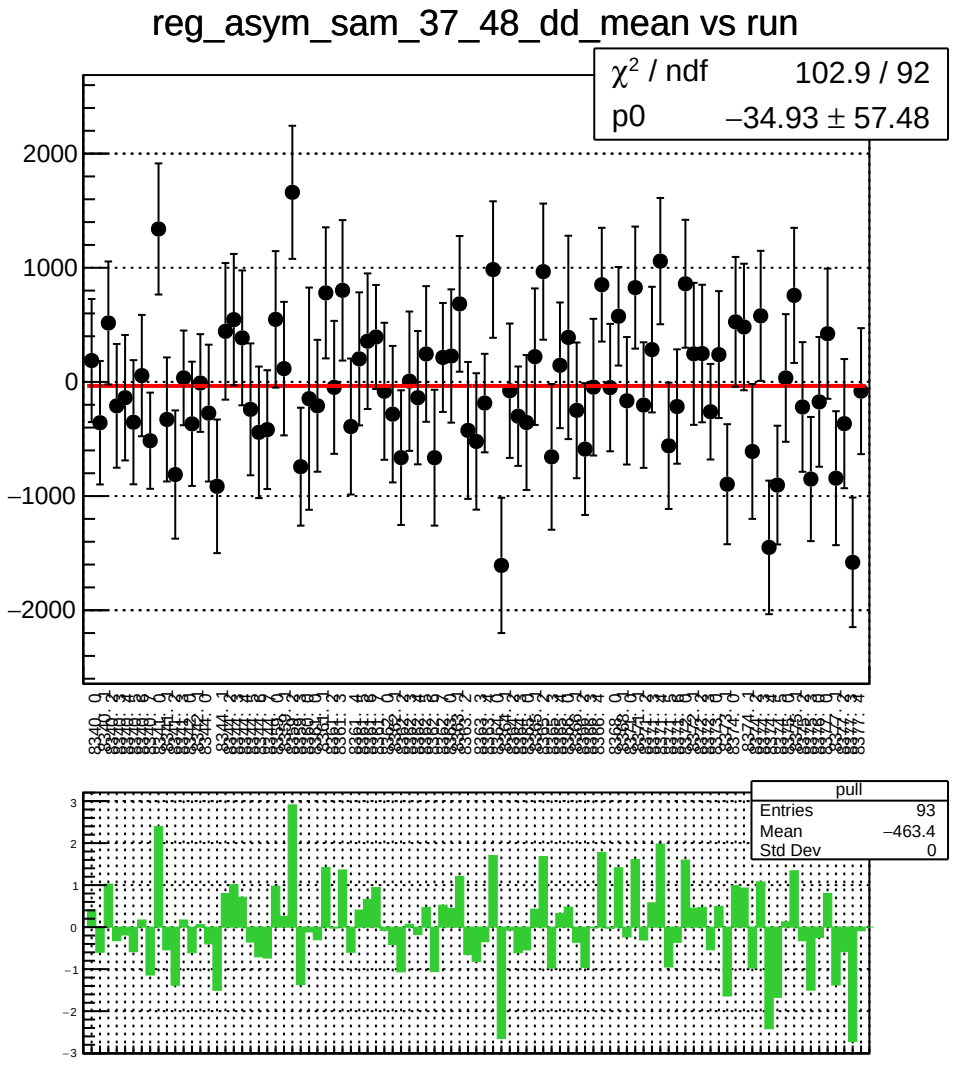

pull1D
Entries 93
Mean 0.02074
Std Dev 0.9686

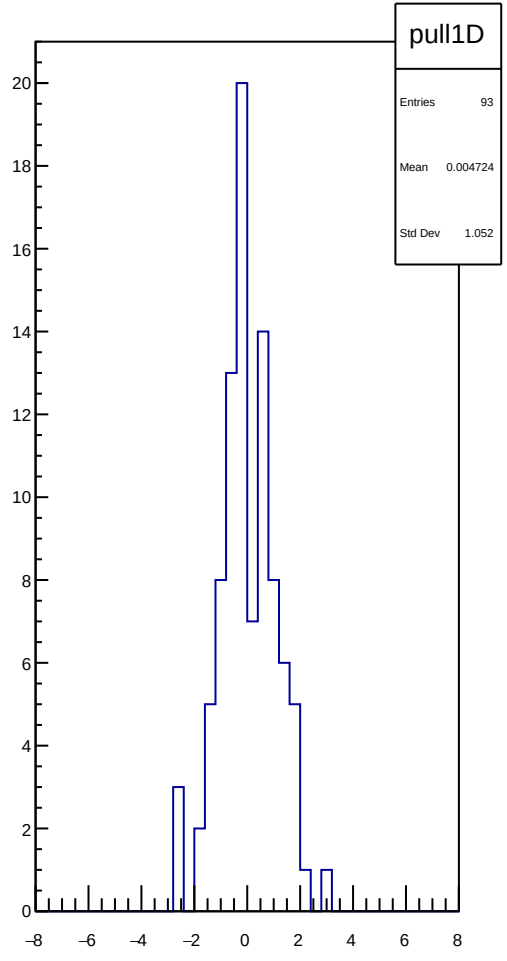

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.169e+04 / 92
p0 28 ± 0.02097
50
45
40
35
30
25
20

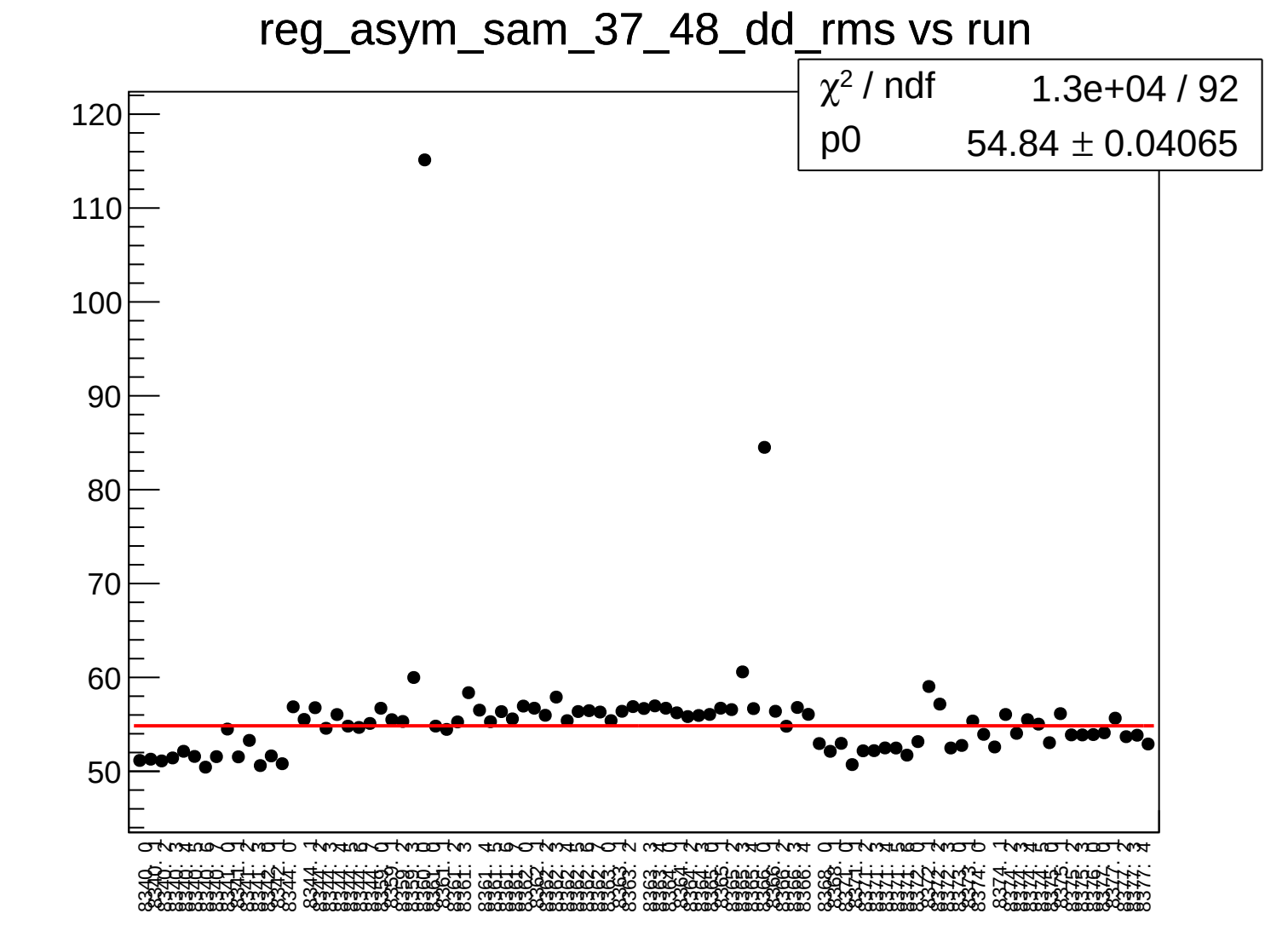

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.4 / 92
p0 −2.739e−14 ± 6.591e−14
pull
Entries 93
Mean 6.338
Std Dev 0

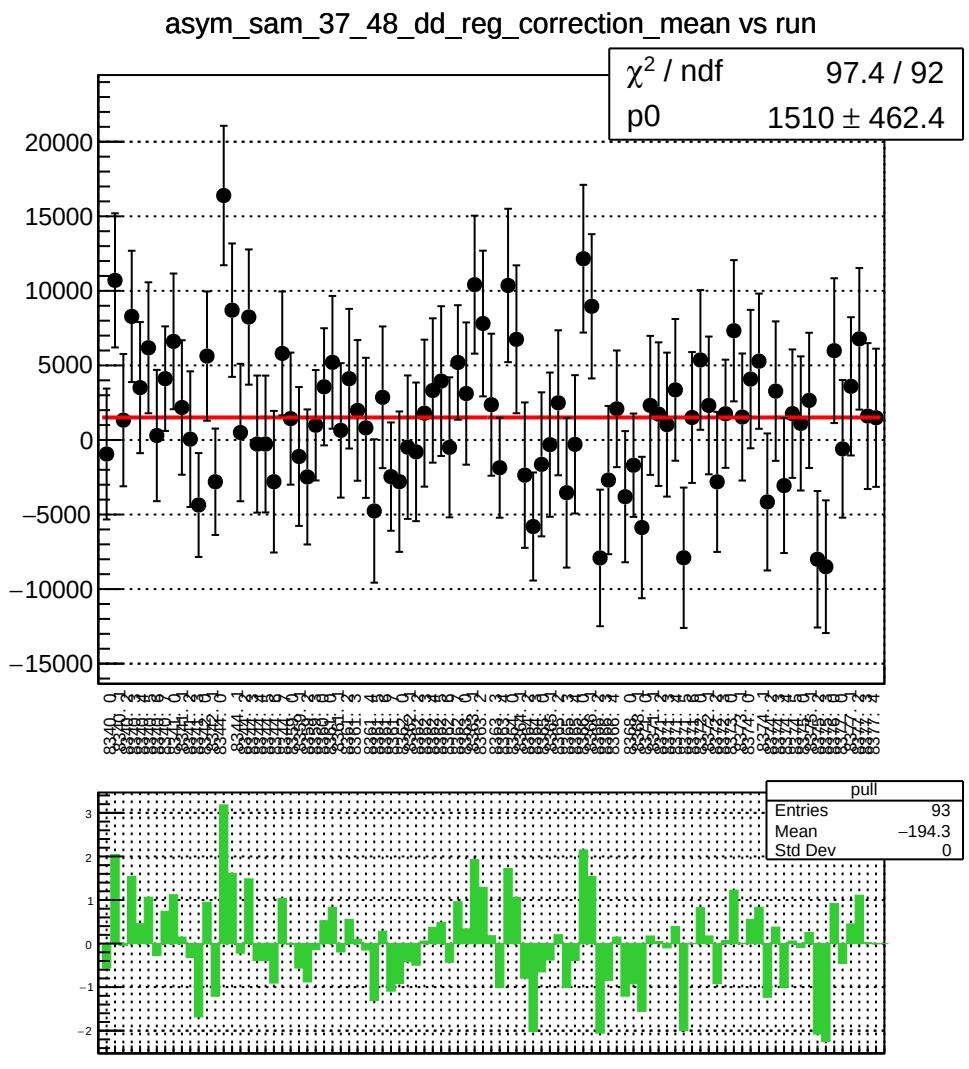

pull1D
Entries 93
Mean −0.03174
Std Dev 1.059

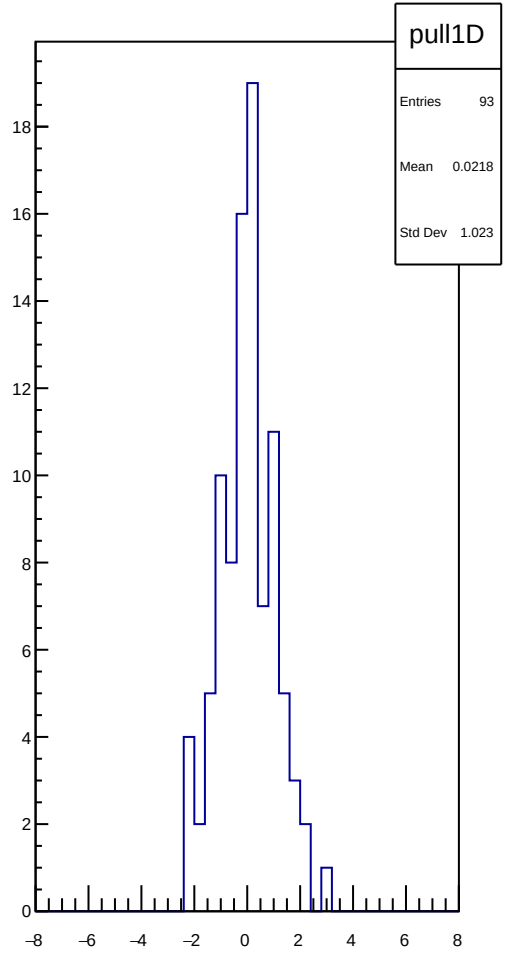

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.742e+05 / 92
p0 5.434e−11 ± 4.661e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −34.93 ± 57.48
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −463.4
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.004724
Std Dev 1.052
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.3e+04 / 92
p0 54.84 ± 0.04065
120
110
100
90
80
70
60
50


asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 97.4 / 92
p0 1510 ± 462.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −194.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0218
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
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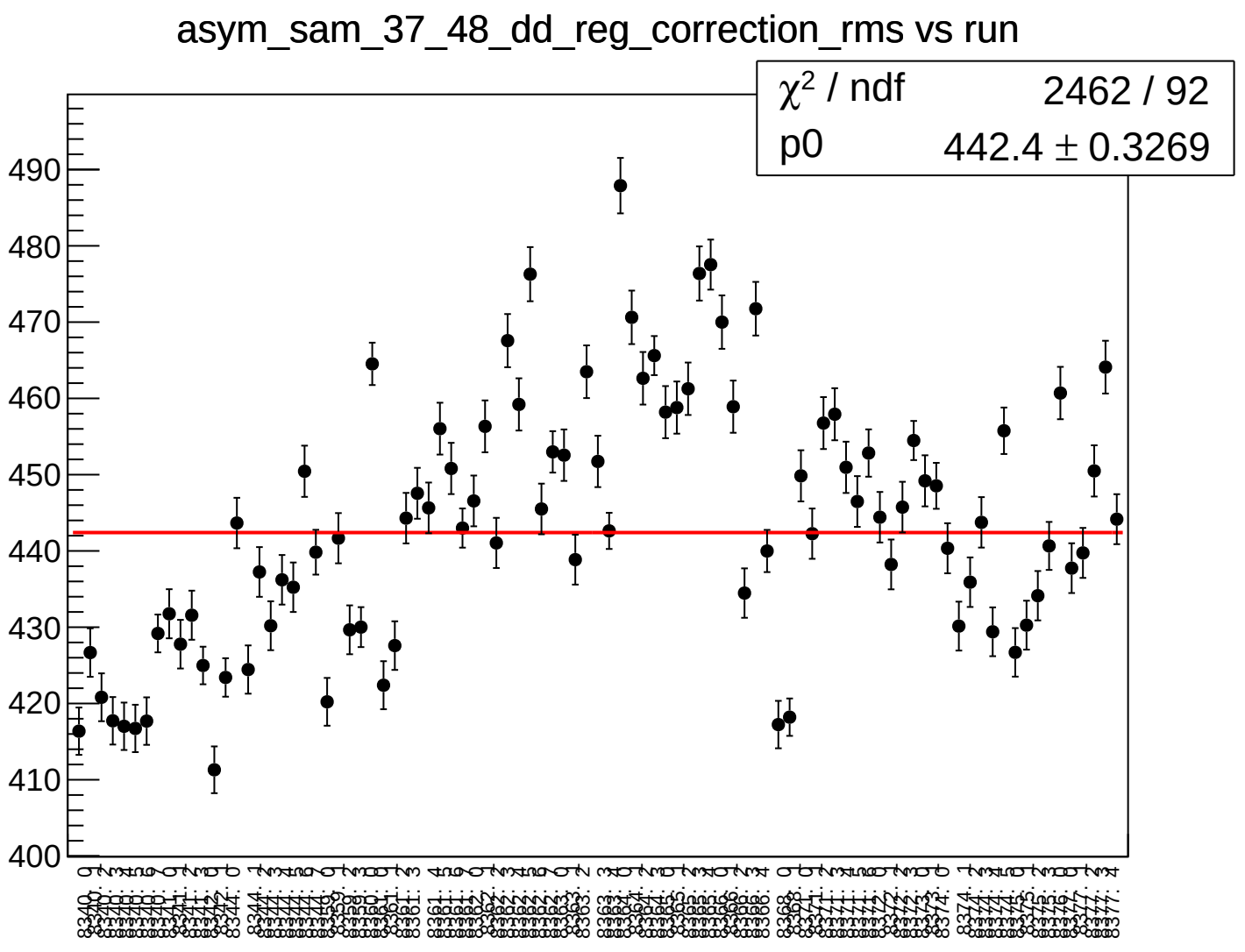
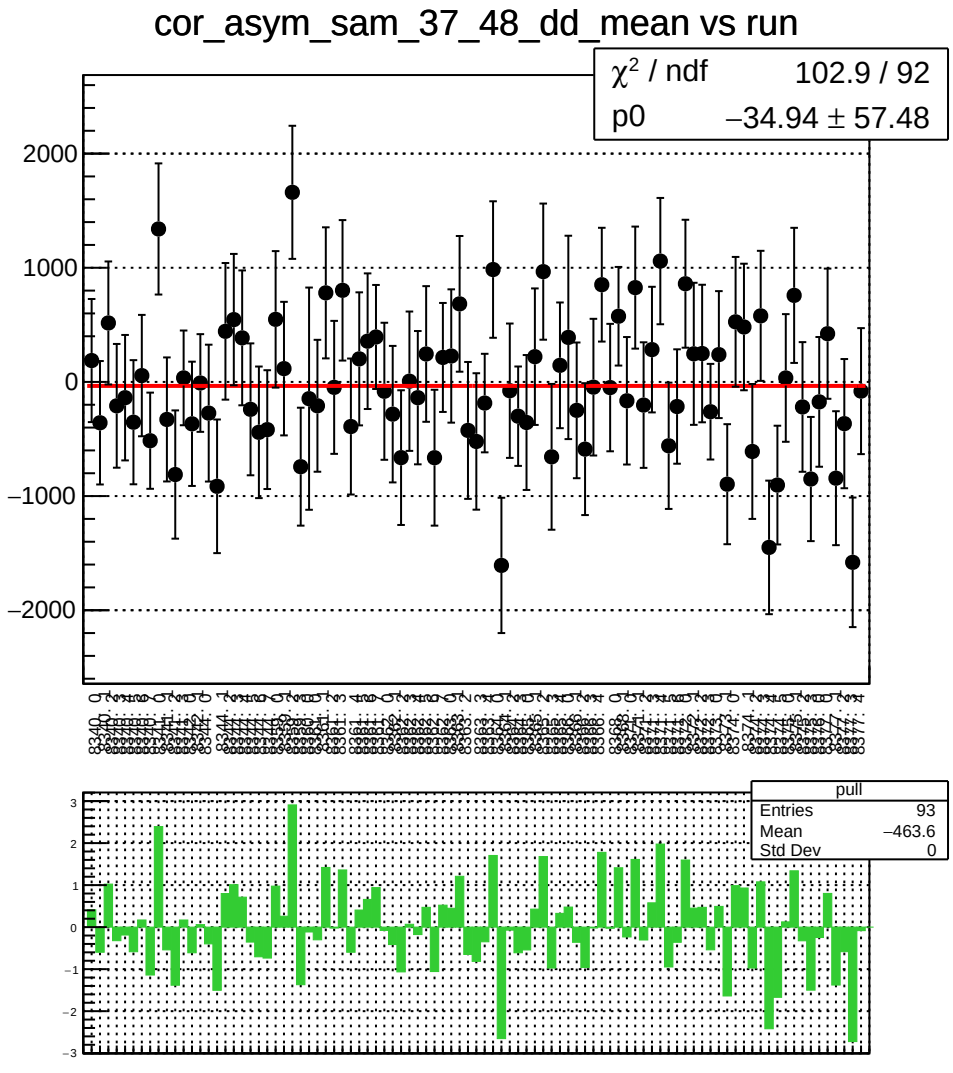
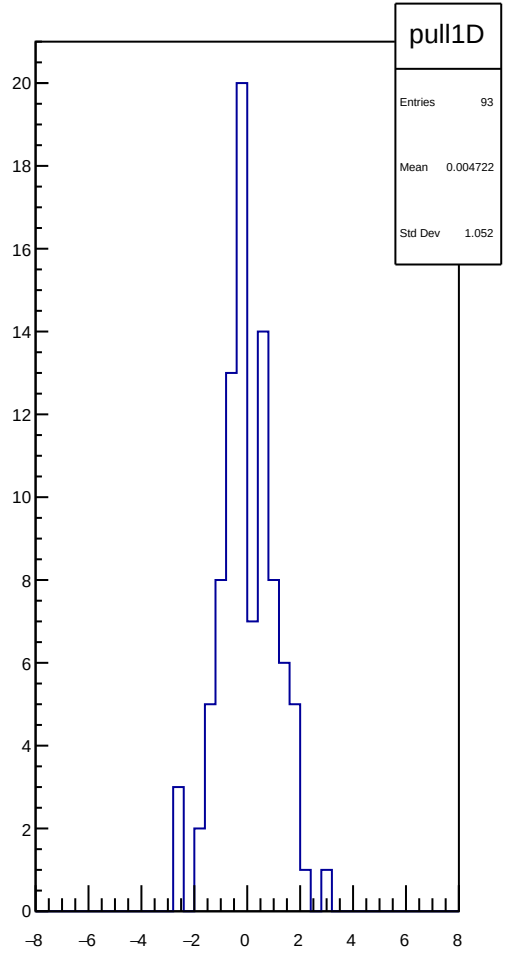
2
4
6
8


asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2462 / 92
p0 442.4 ± 0.3269
490
480
470
460
450
440
430
420
410
400


cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −34.94 ± 57.48
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −463.6
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.004722
Std Dev 1.052
20
18
16
14
12
10
8
6
4
2
0
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−4
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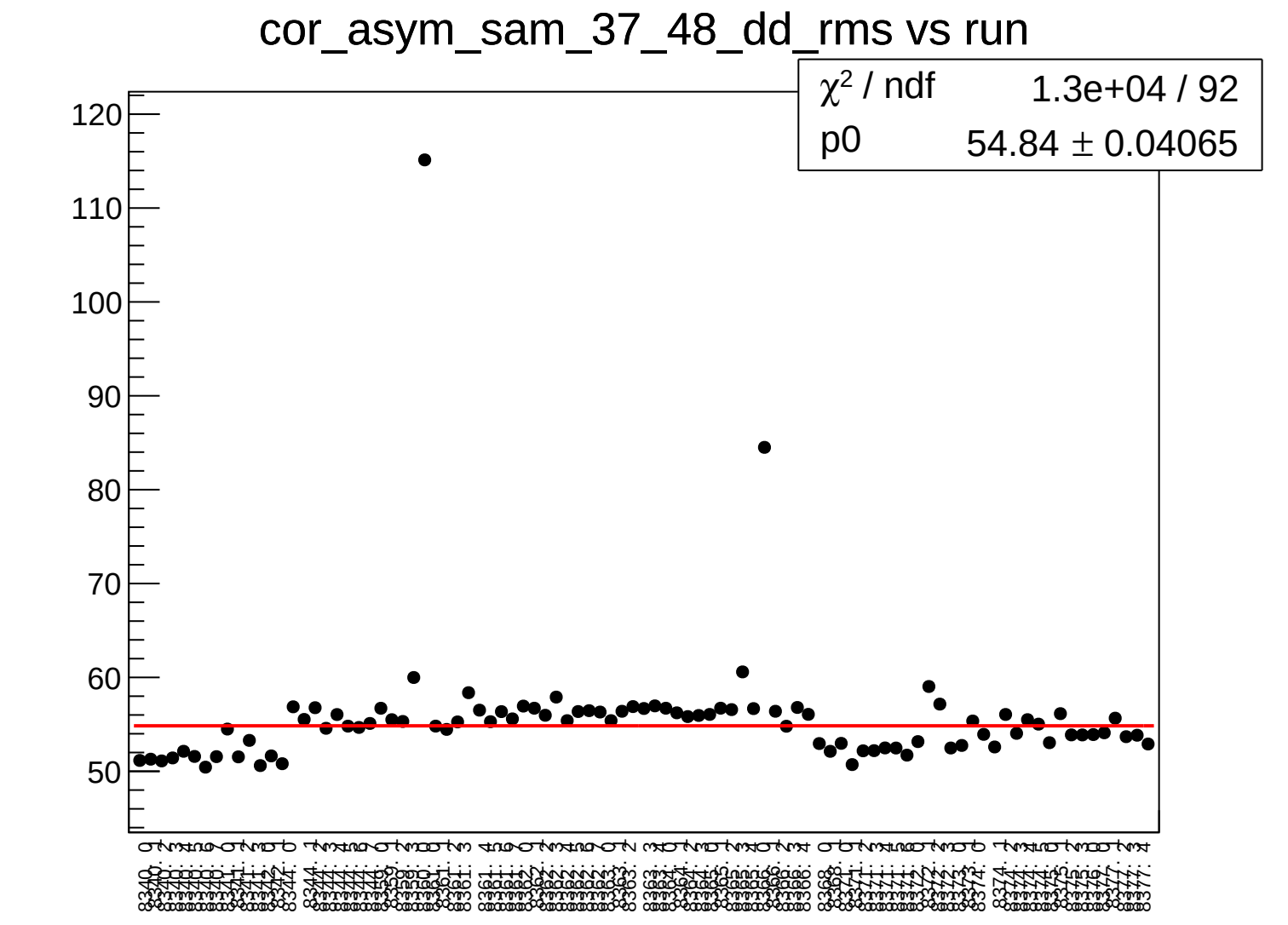
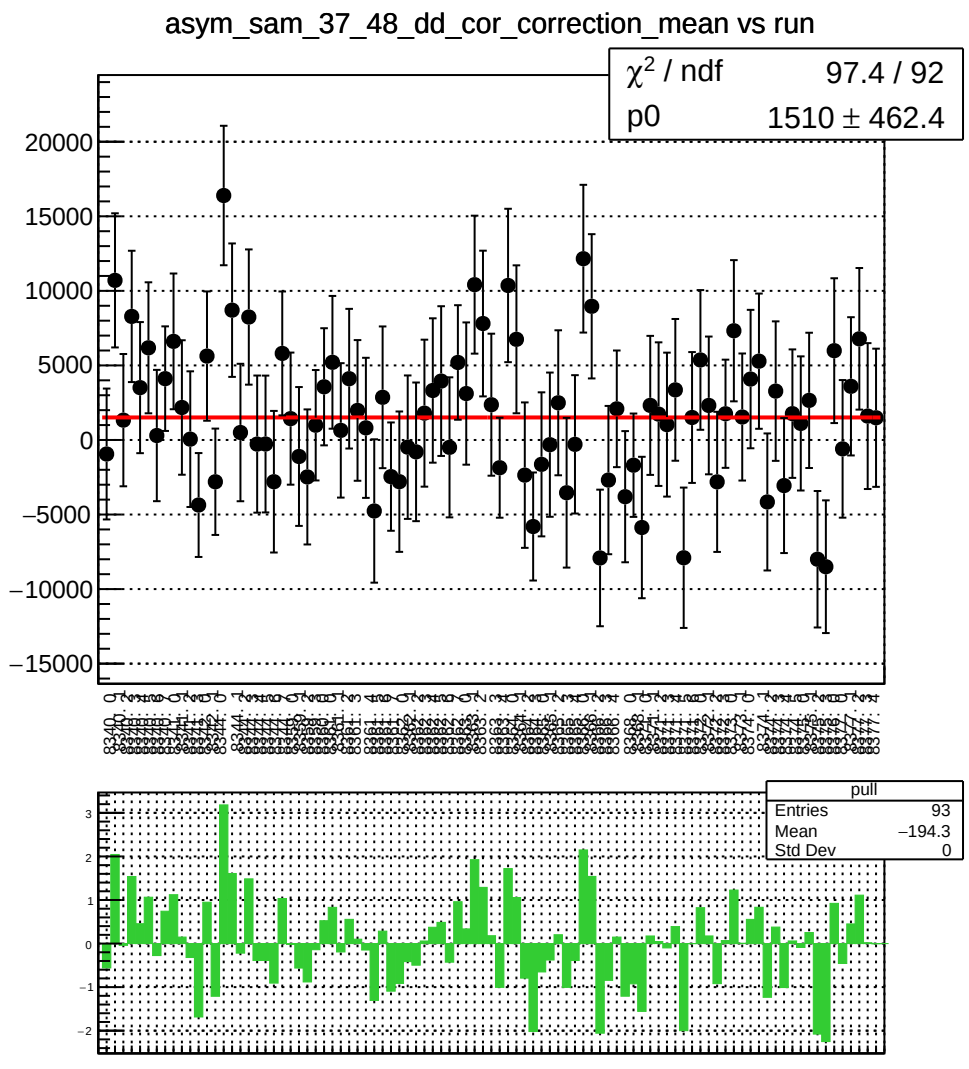
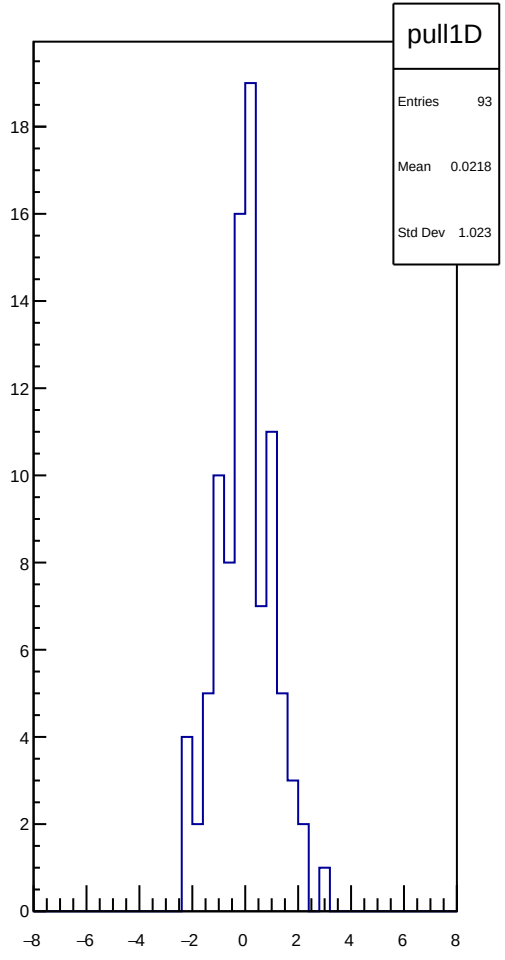
2
4
6
8


cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.3e+04 / 92
p0 54.84 ± 0.04065
120
110
100
90
80
70
60
50


asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 97.4 / 92
p0 1510 ± 462.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −194.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0218
Std Dev 1.023
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16
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10
8
6
4
2
0
−8
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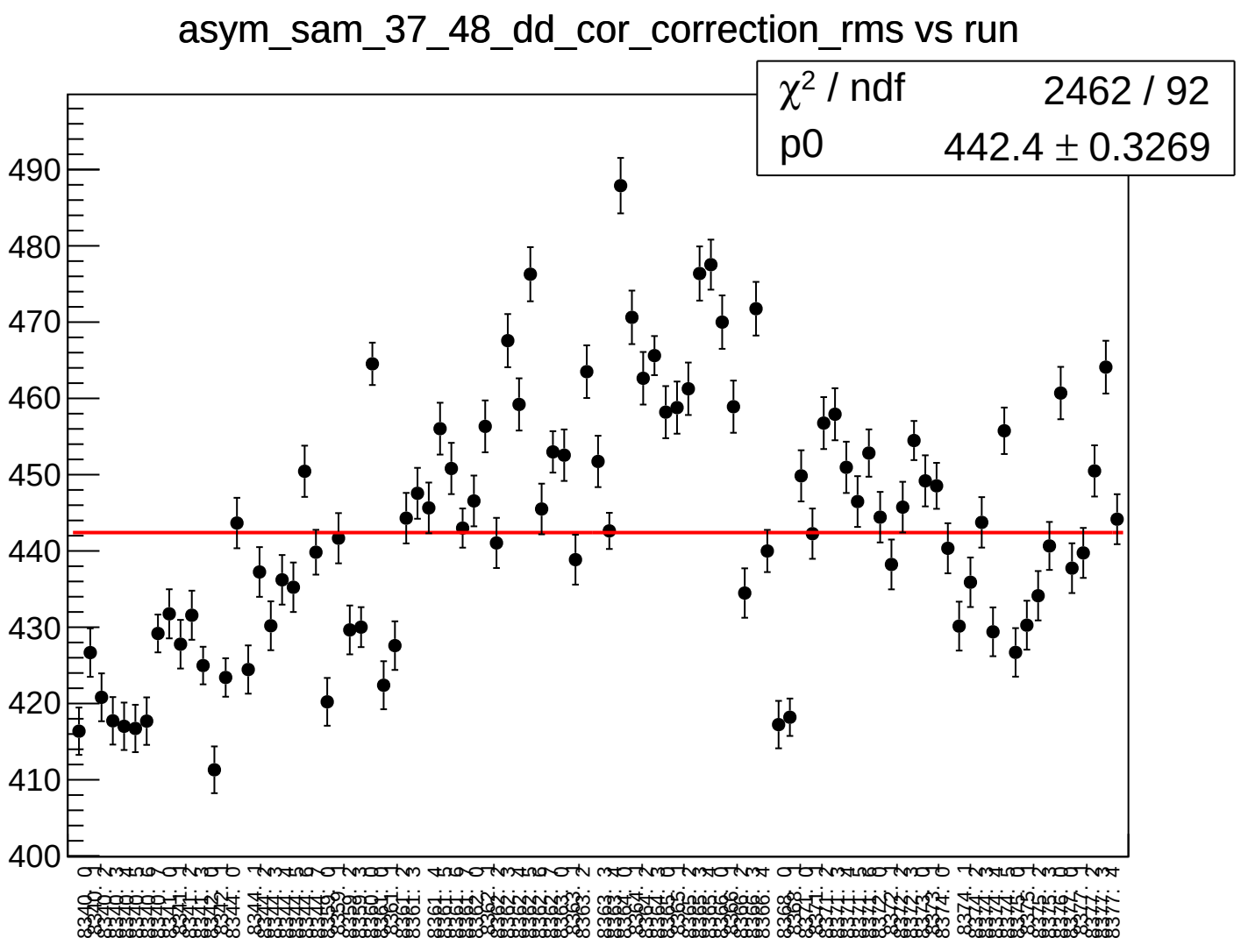
−4
−2
0
2
4
6
8


asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2462 / 92
p0 442.4 ± 0.3269
490
480
470
460
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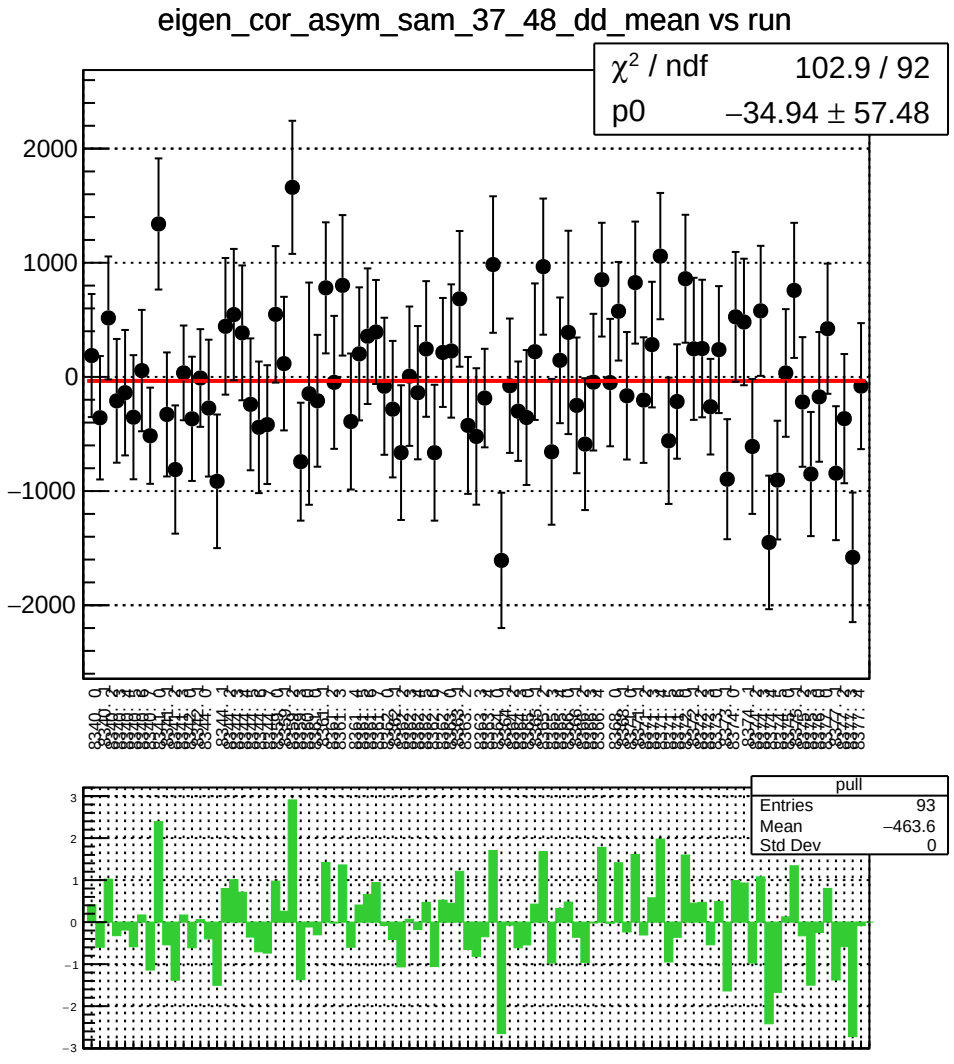
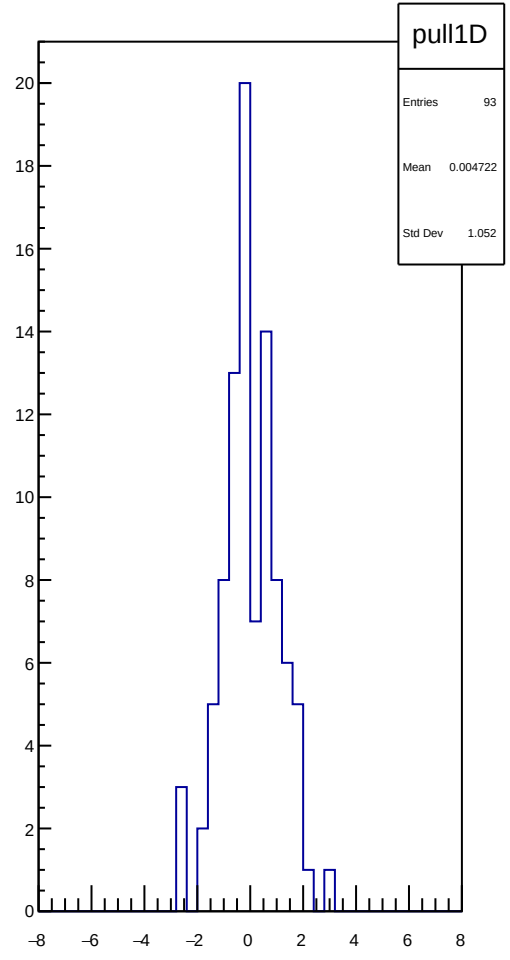
440
430
420
410
400


eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 102.9 / 92
p0 −34.94 ± 57.48
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −463.6
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean 0.004722
Std Dev 1.052
20
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16
14
12
10
8
6
4
2
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−4
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2
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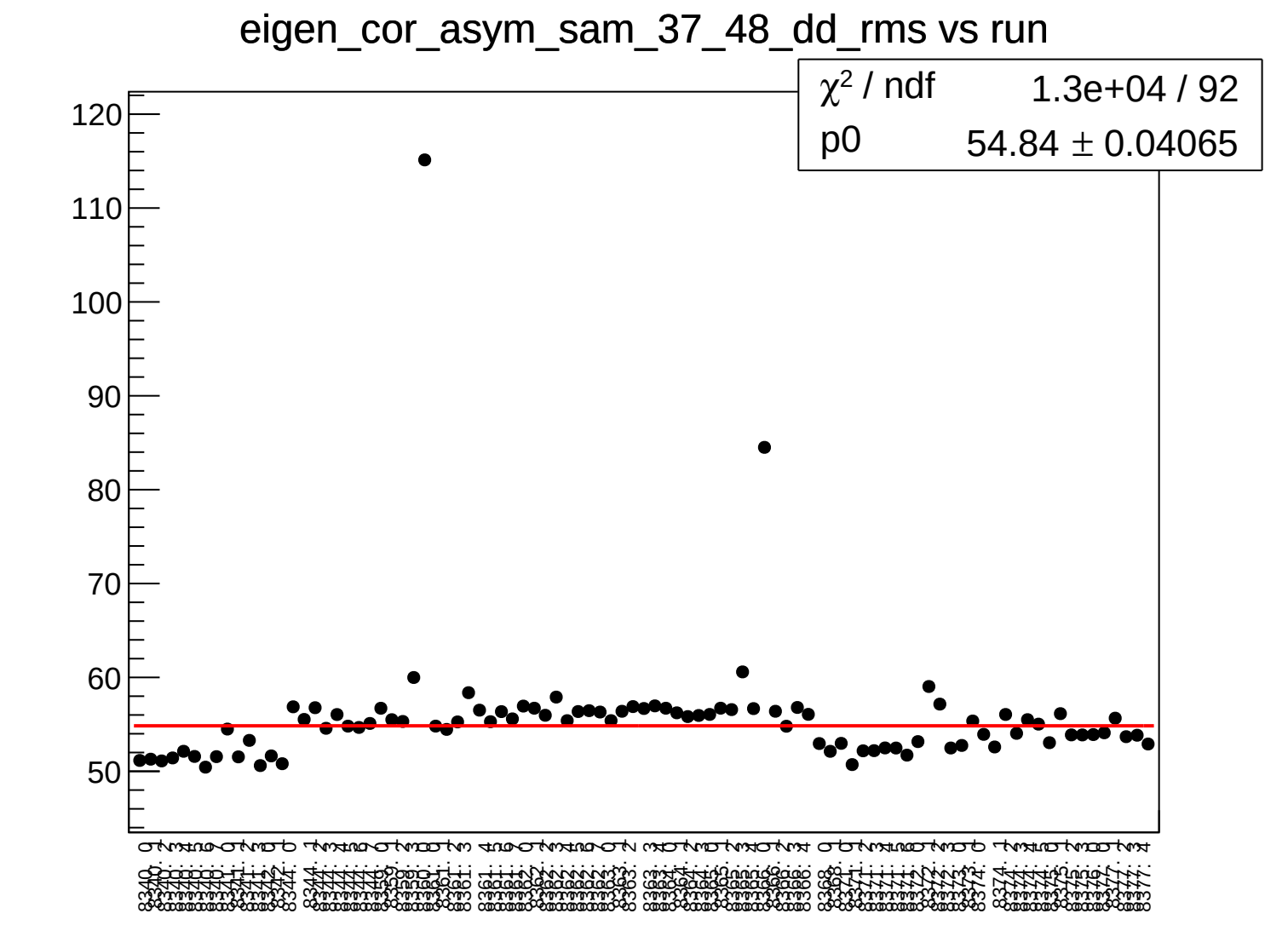
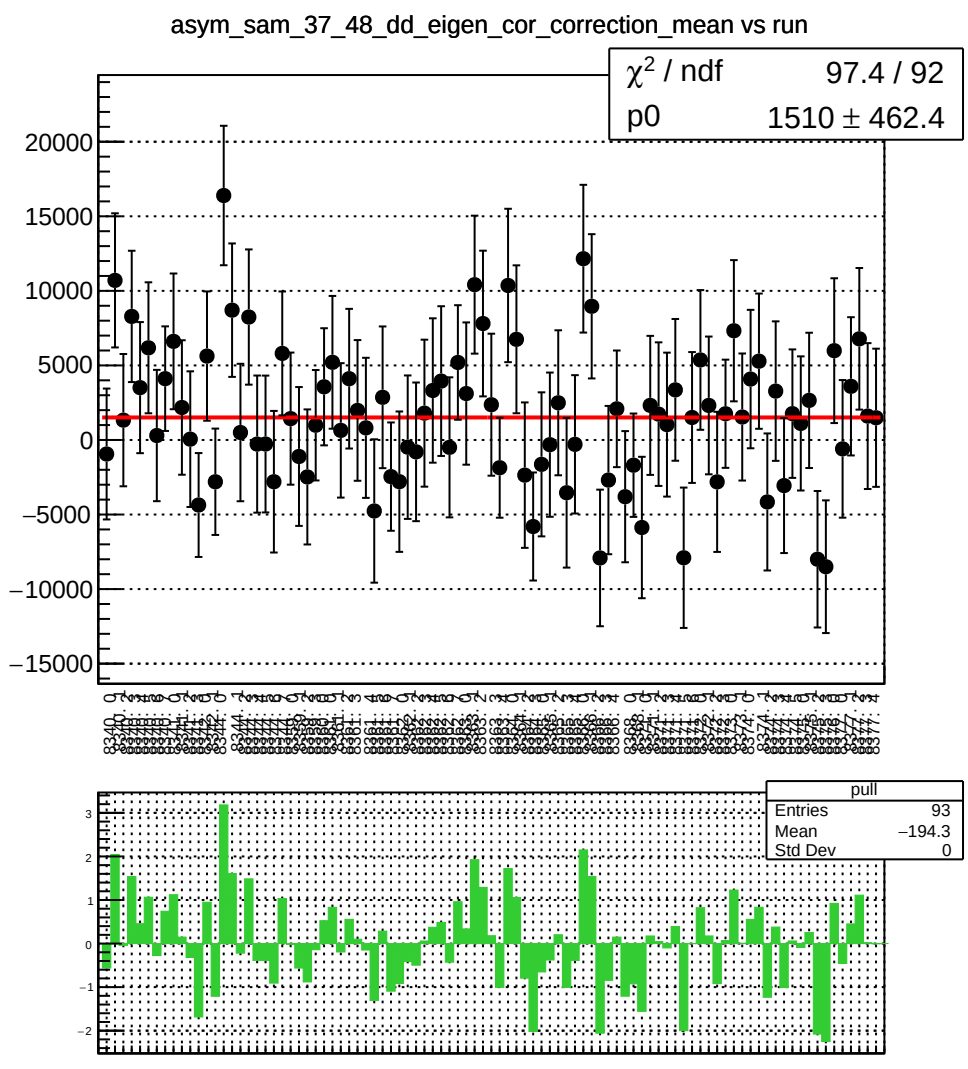
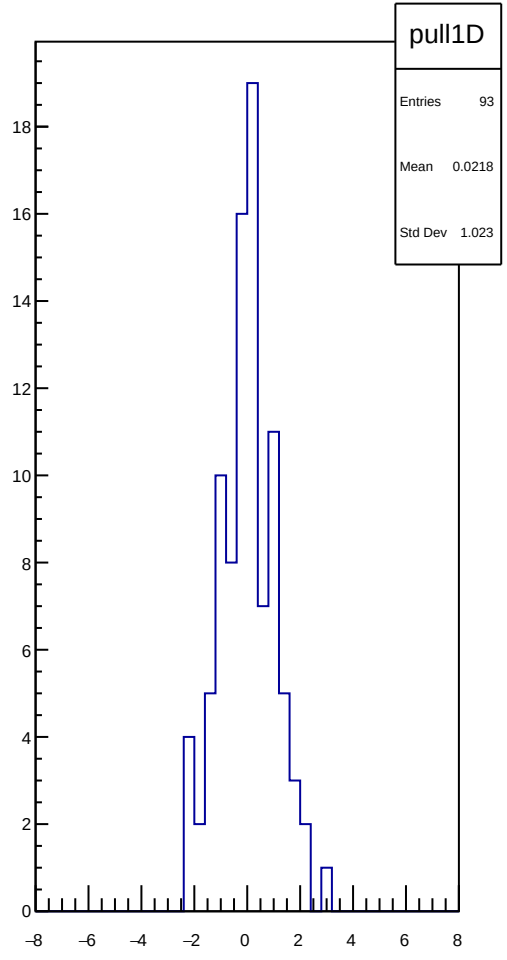
6
8


eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1.3e+04 / 92
p0 54.84 ± 0.04065
120
110
100
90
80
70
60
50


asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.4 / 92
p0 1510 ± 462.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −194.3
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 93
Mean 0.0218
Std Dev 1.023
18
16
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10
8
6
4
2
0
−8
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2
4
6
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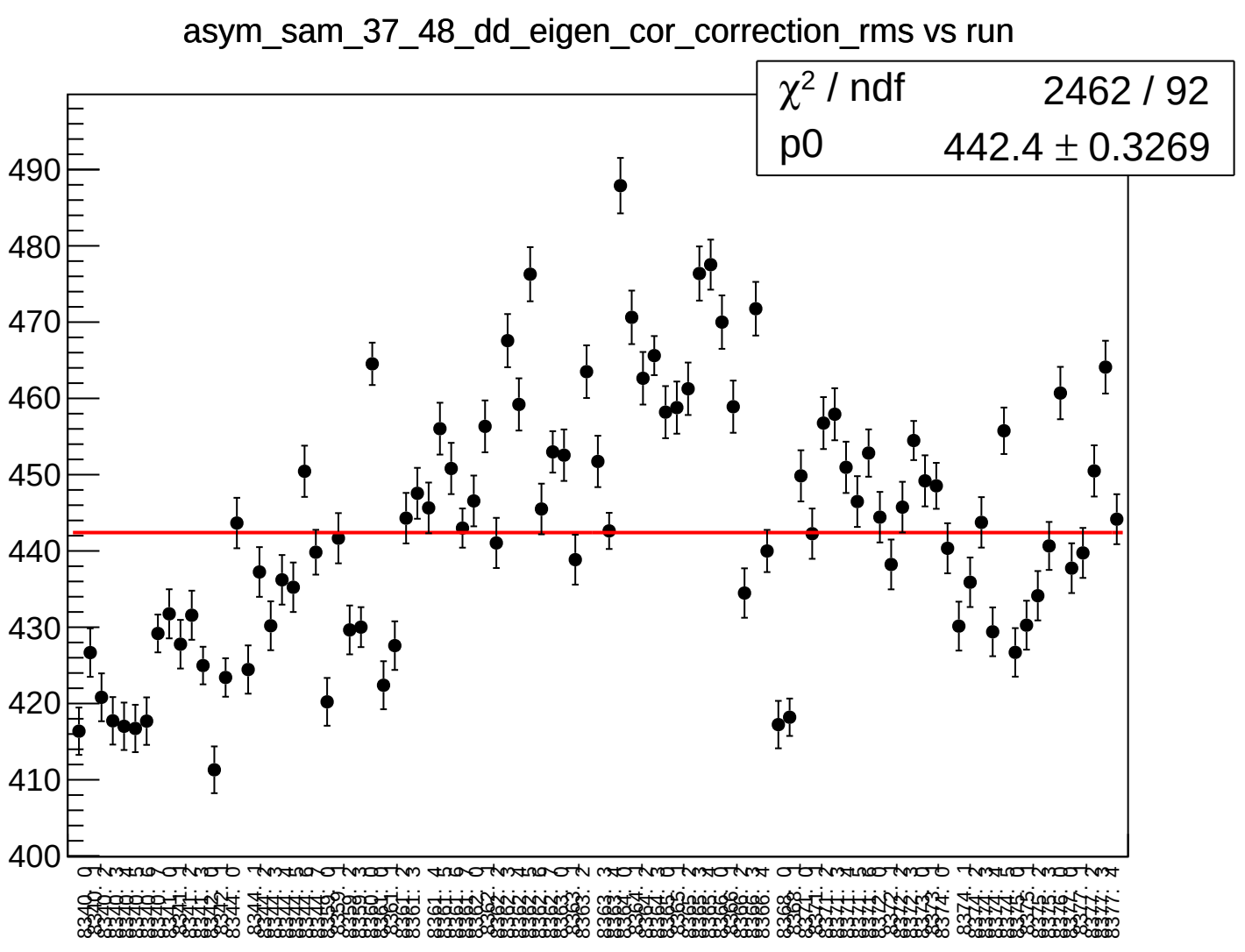
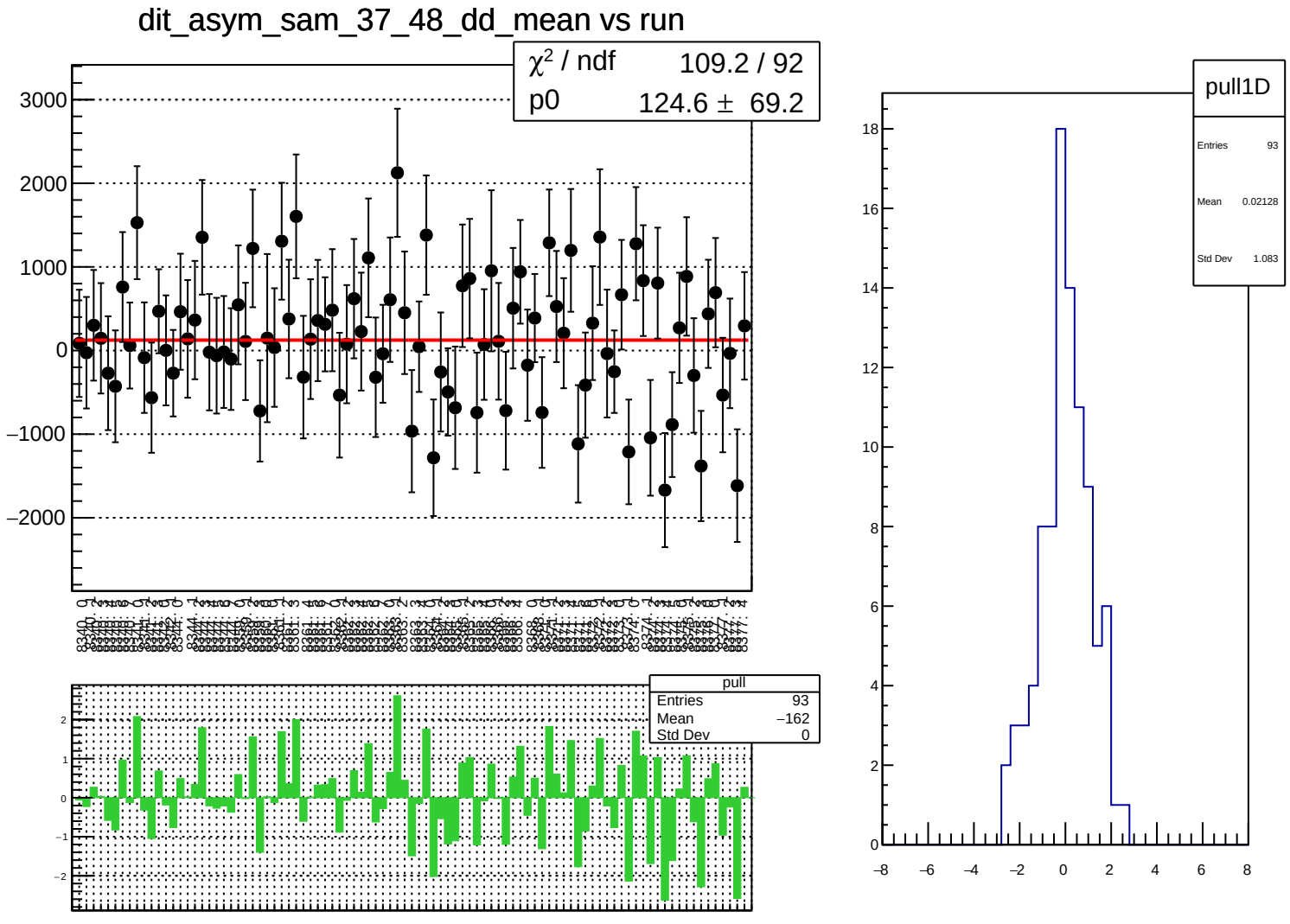
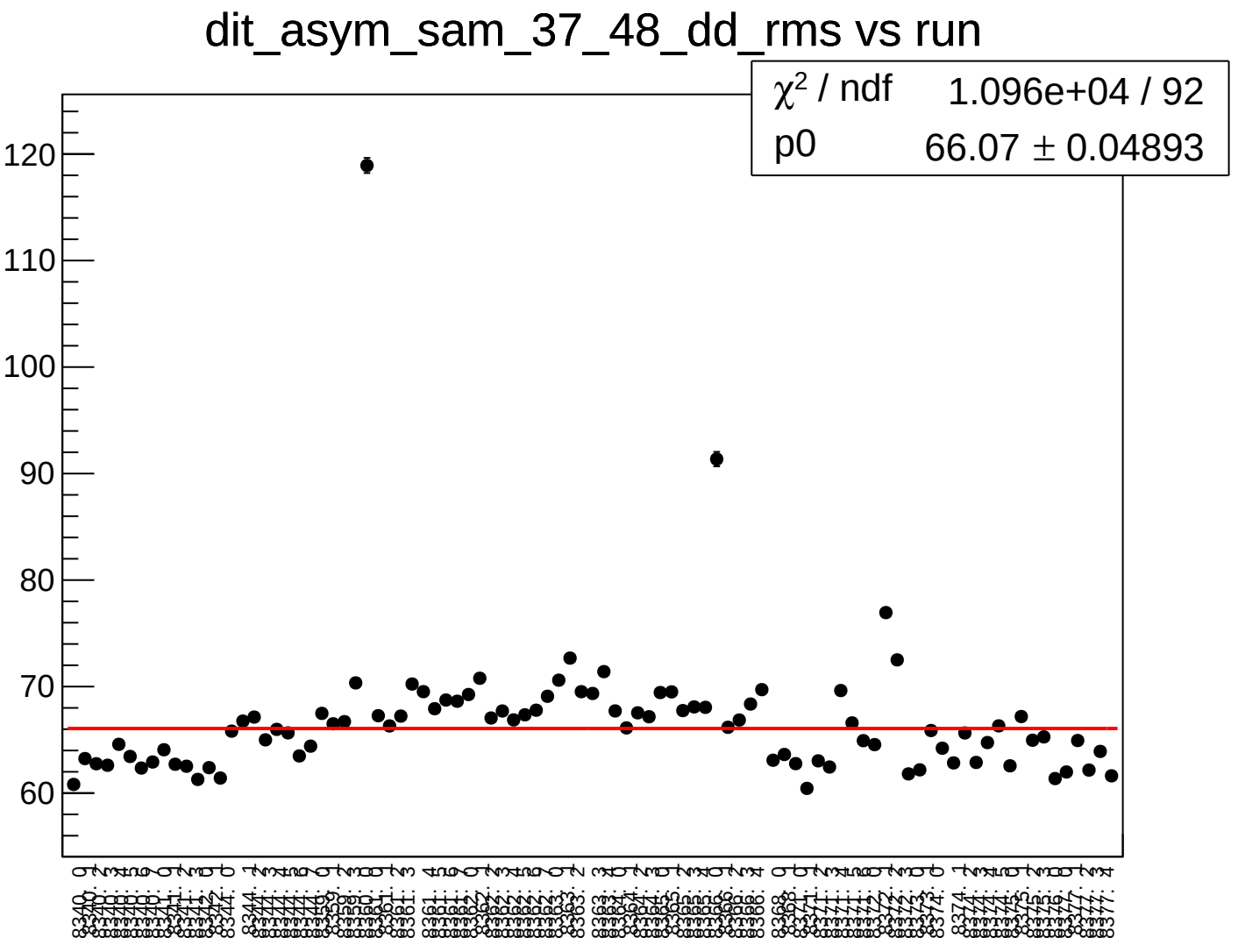
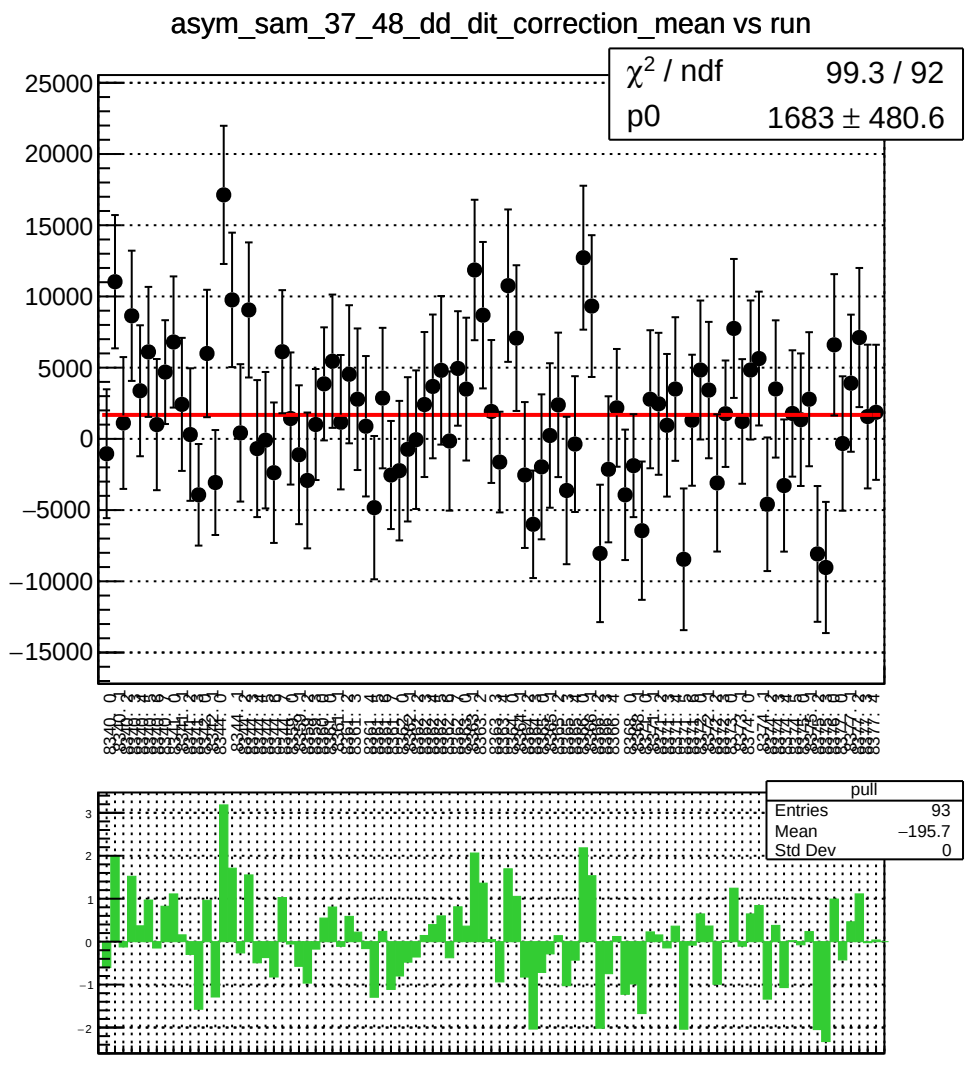
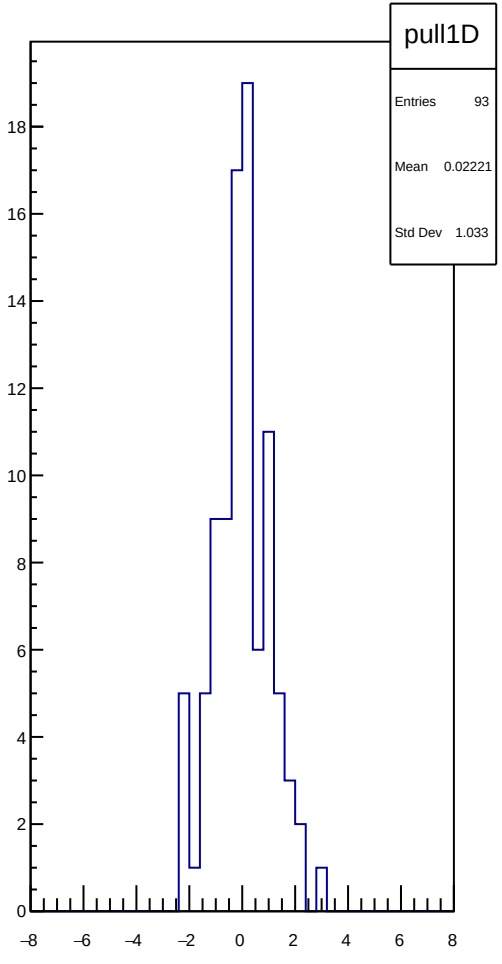
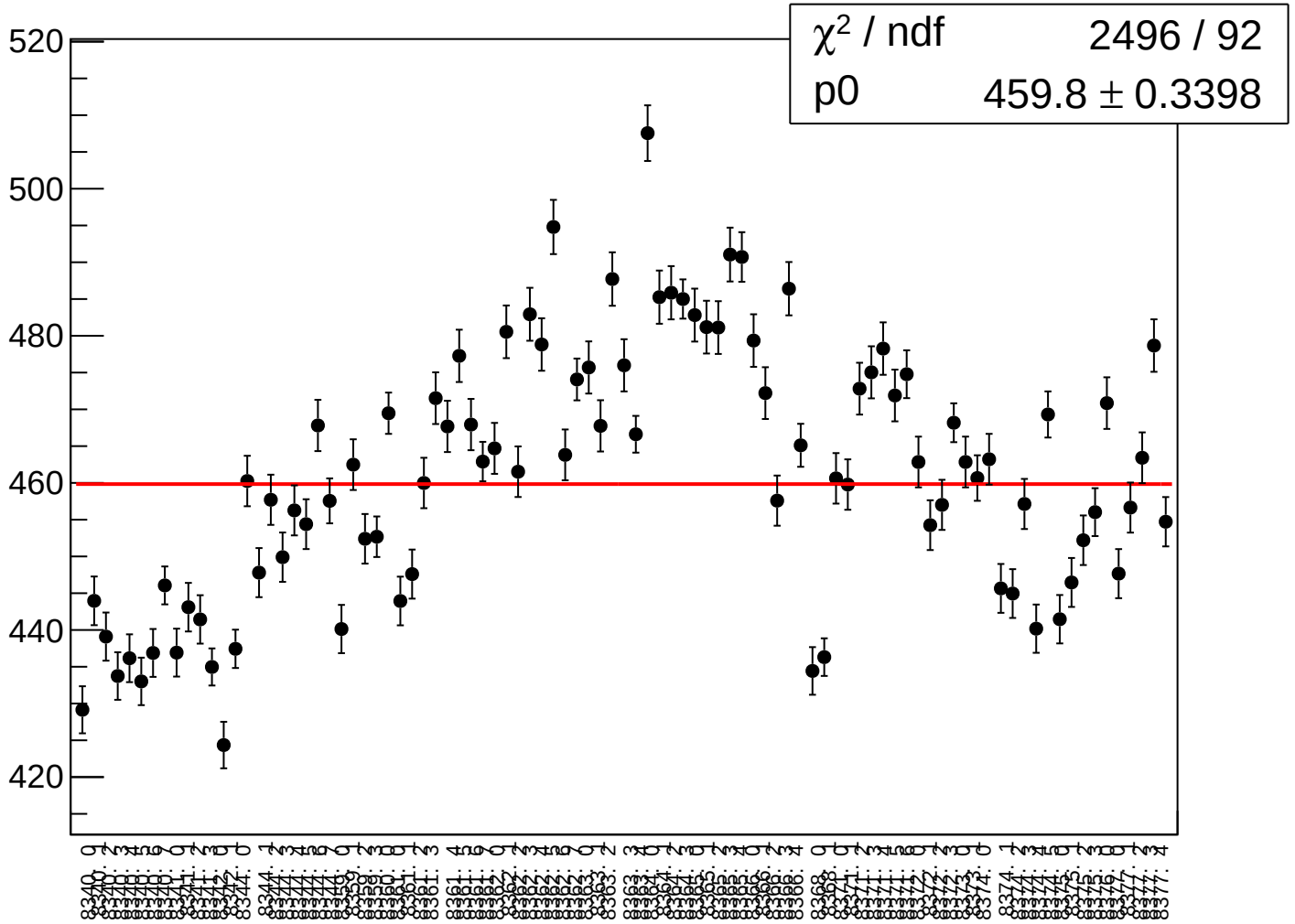

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2462 / 92
p0 442.4 ± 0.3269
490
480
470
460
450
440
430
420
410
400

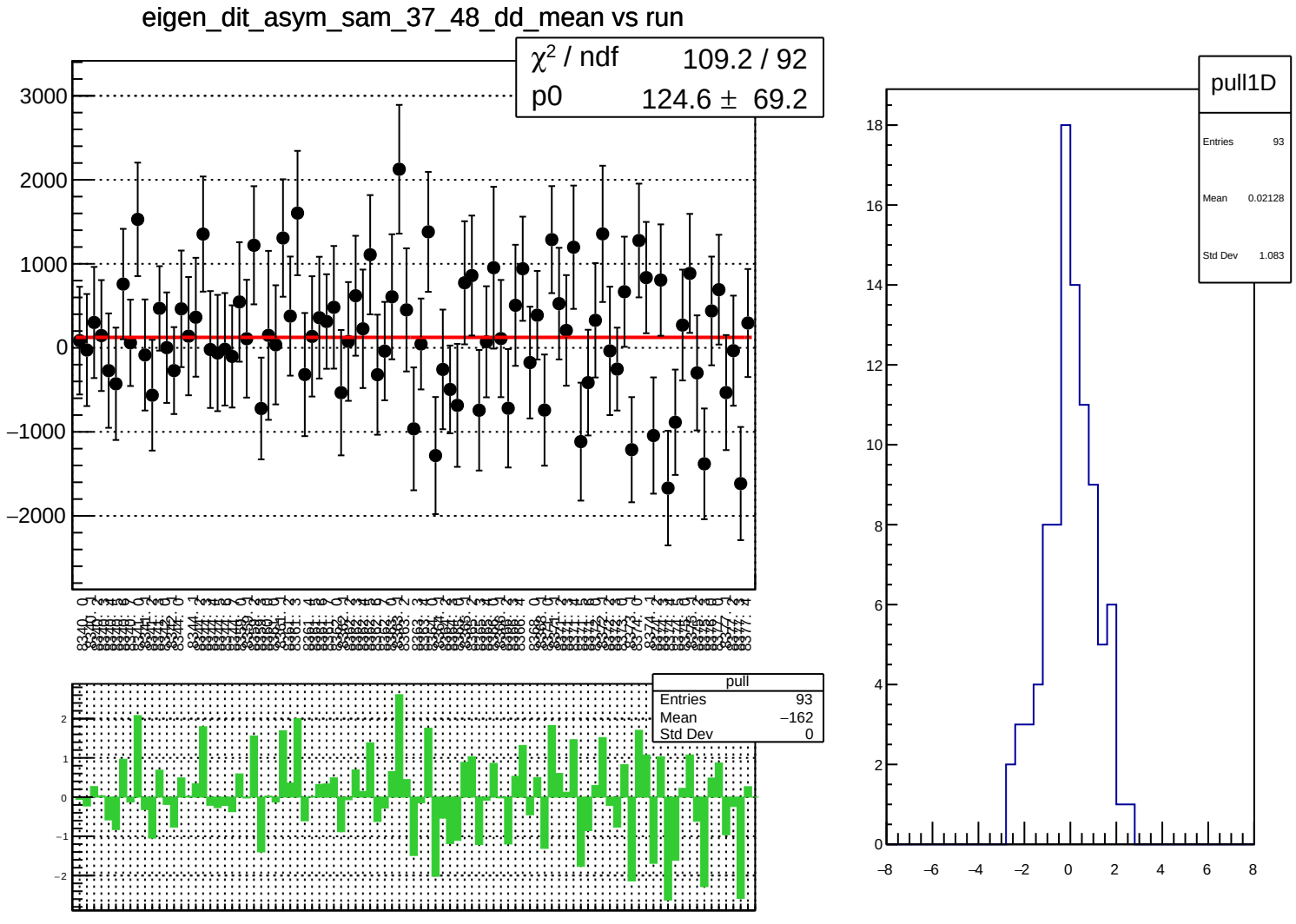

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 109.2 / 92
p0 124.6 ± 69.2
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −162
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02128
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

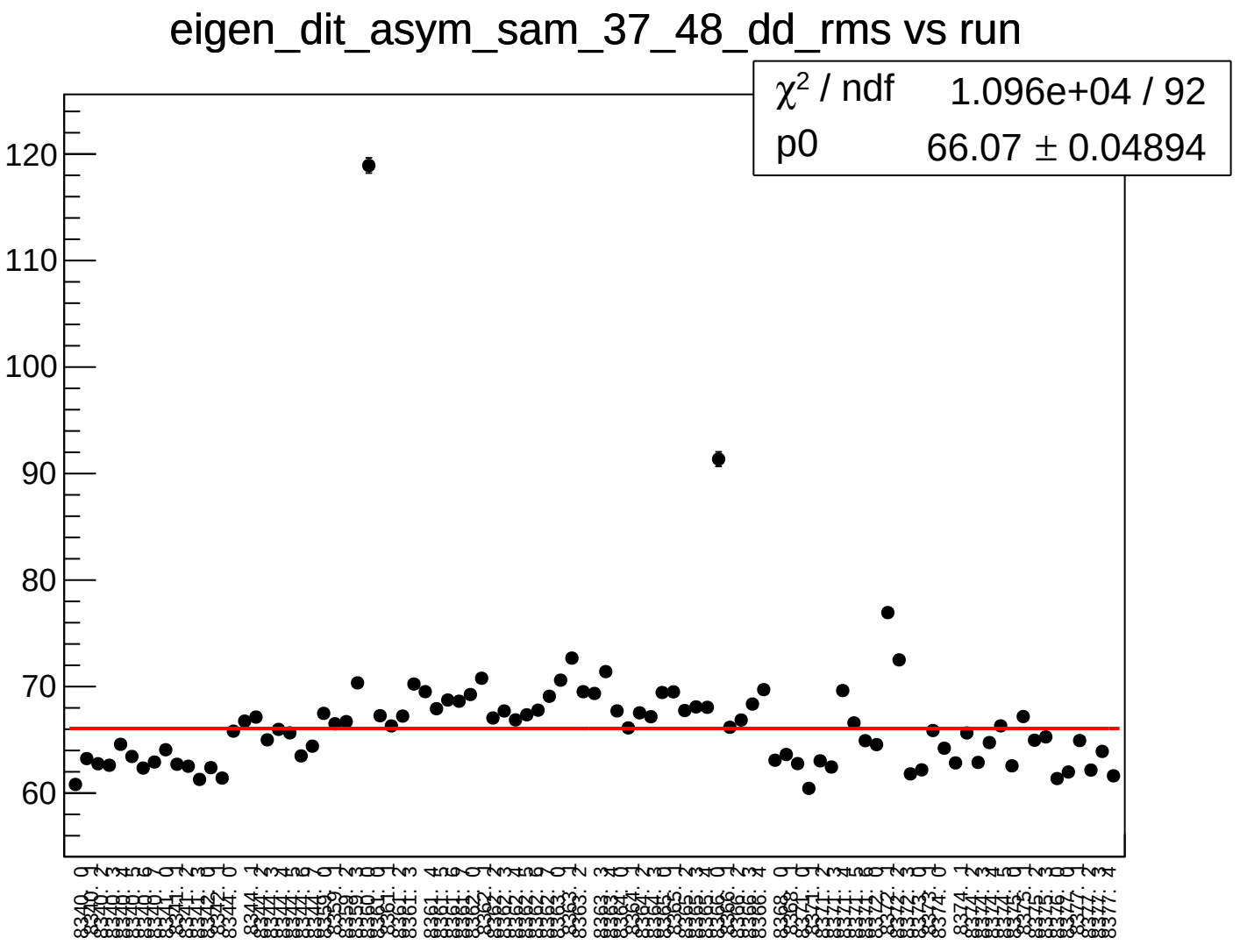

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.096e+04 / 92
p0 66.07 ± 0.04893
120
110
100
90
80
70
60

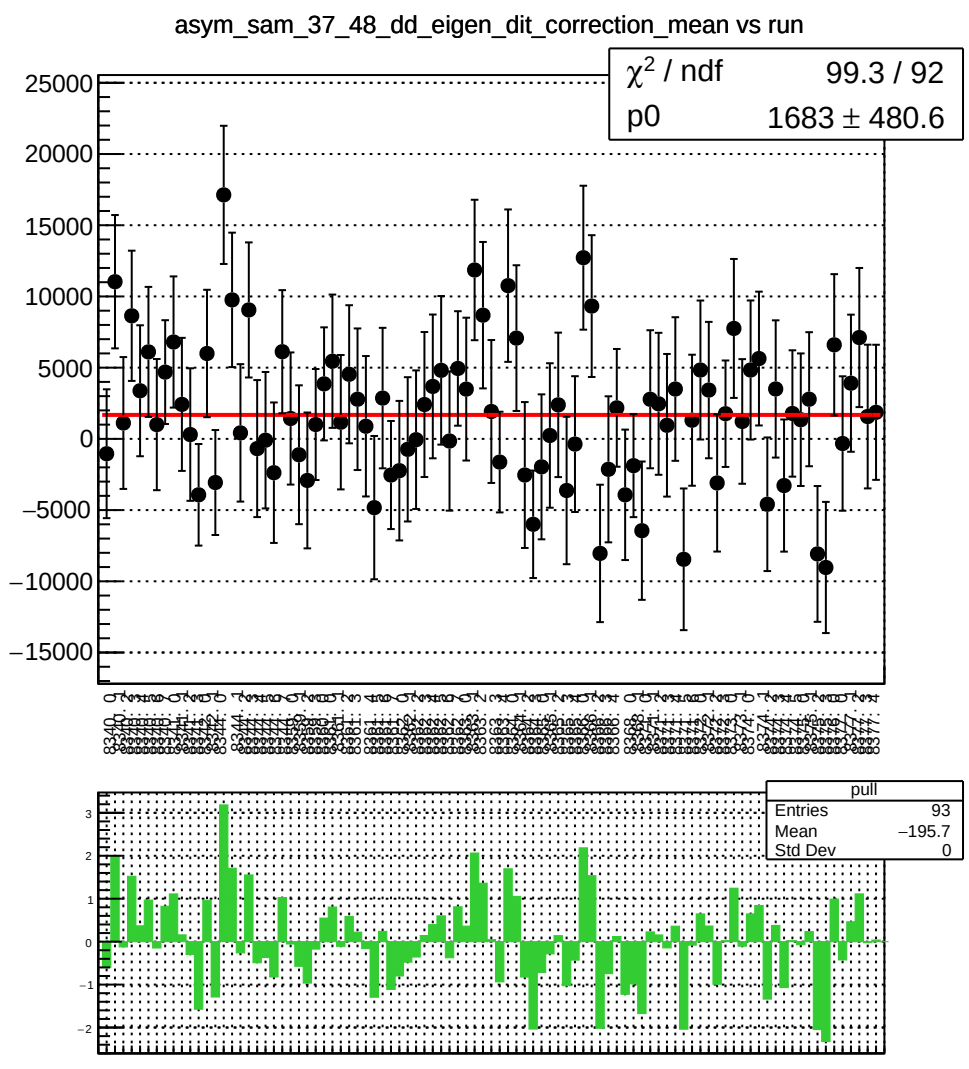

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 99.3 / 92
p0 1683 ± 480.6
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −195.7
Std Dev 0
3
2
1
0
−1
−2

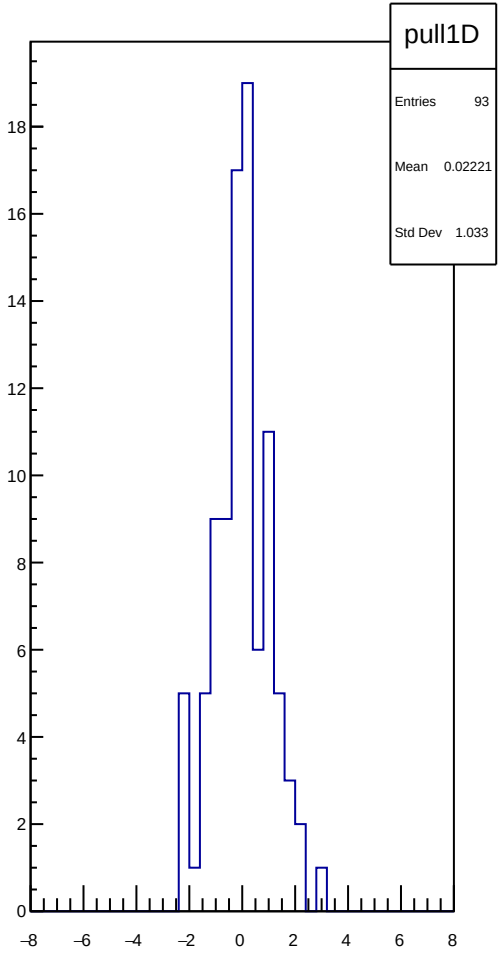

pull1D
Entries 93
Mean 0.02221
Std Dev 1.033
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

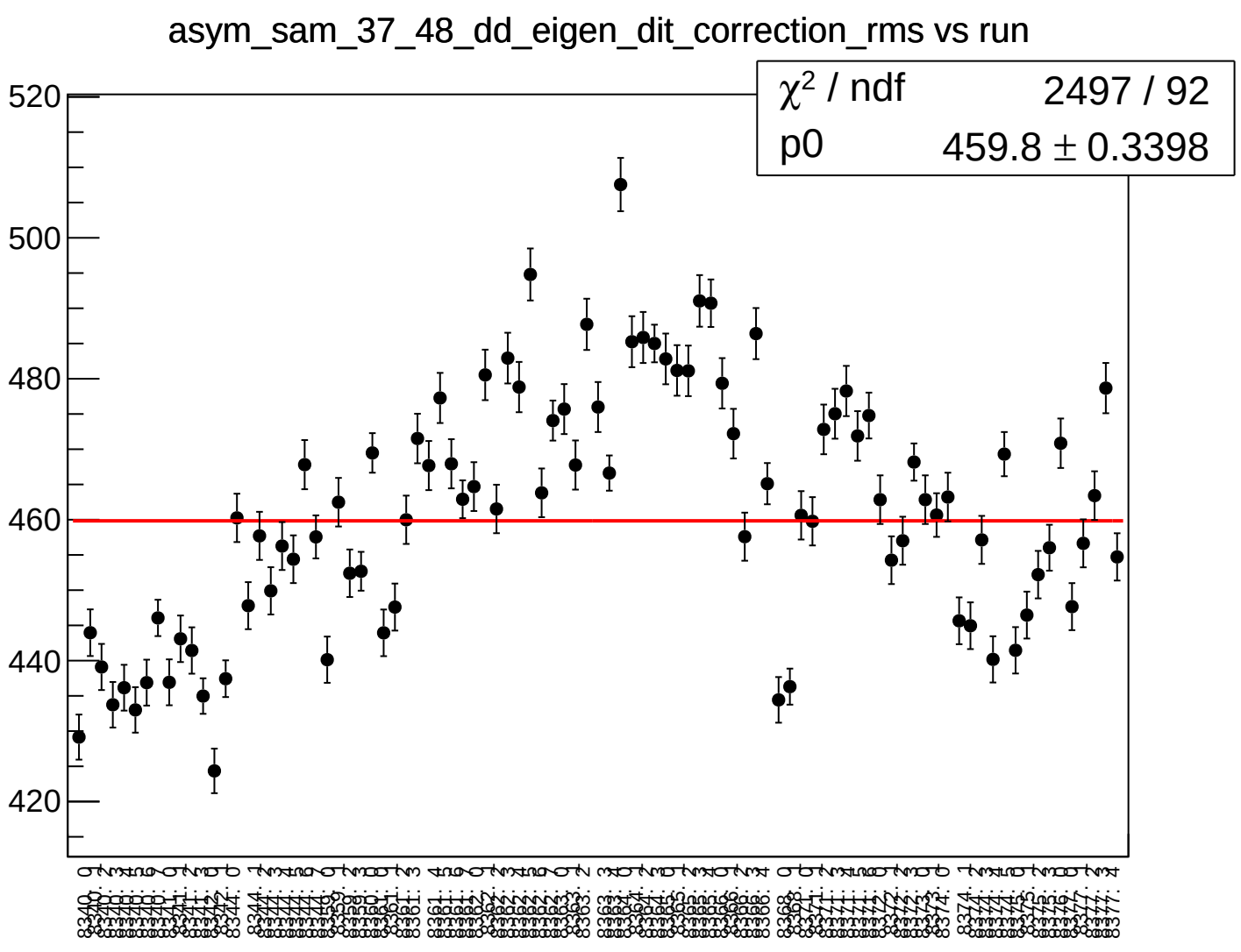

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 2496 / 92
p0 459.8 ± 0.3398
520
500
480
460
440
420

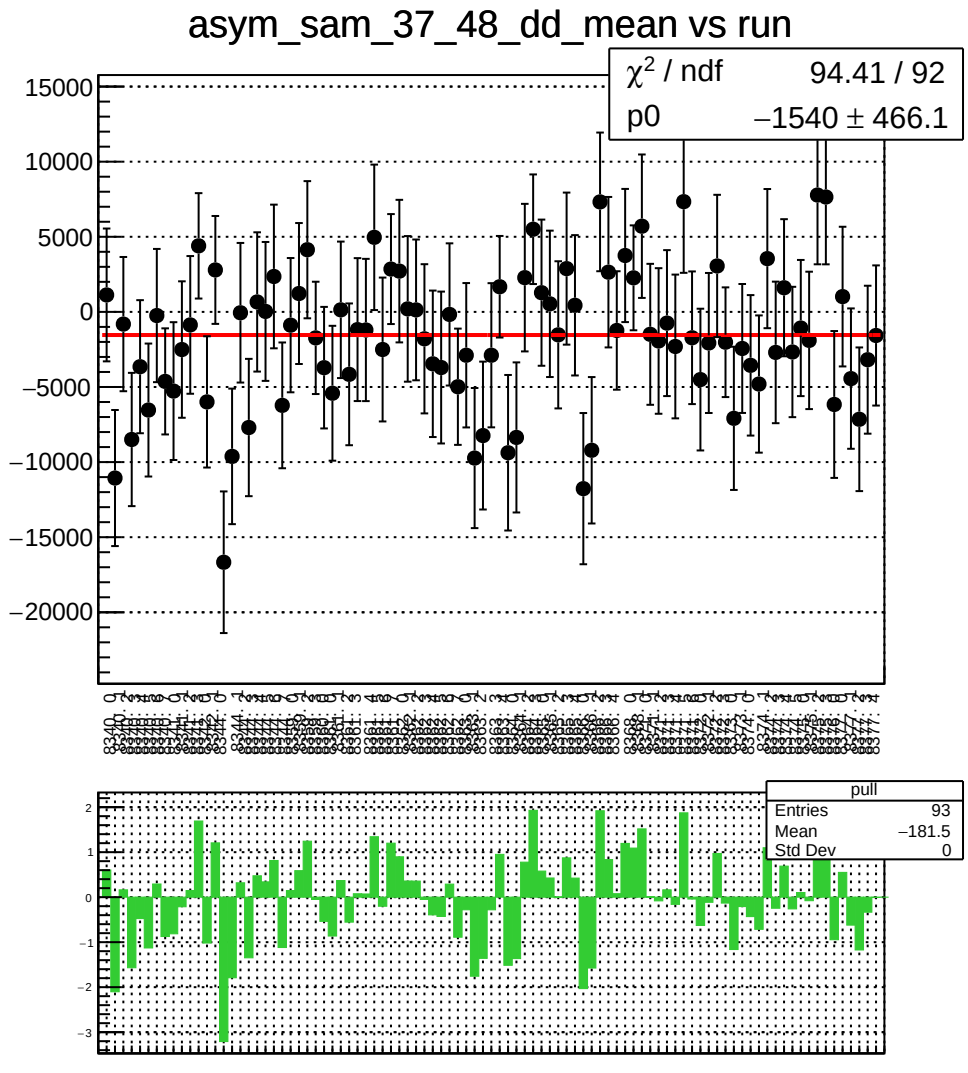

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 109.2 / 92
p0 124.6 ± 69.2
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −162
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02128
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

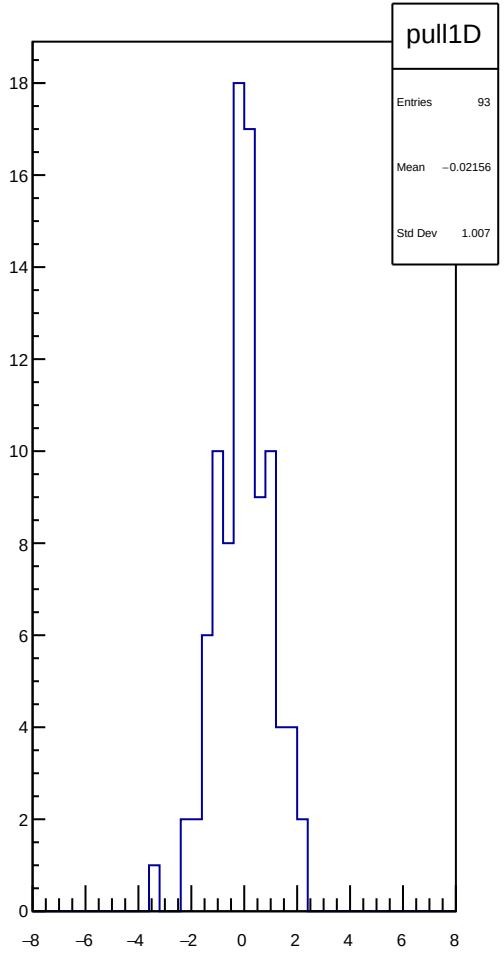

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.096e+04 / 92
p0 66.07 ± 0.04894
120
110
100
90
80
70
60


asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 99.3 / 92
p0 1683 ± 480.6
pull
Entries 93
Mean −195.7
Std Dev 0


pull1D
Entries 93
Mean 0.02221
Std Dev 1.033


asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2497 / 92
p0 459.8 ± 0.3398
520
500
480
460
440
420


asym_sam_37_48_dd_mean vs run
χ² / ndf 94.41 / 92
p0 −1540 ± 466.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −181.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 93
Mean −0.02156
Std Dev 1.007
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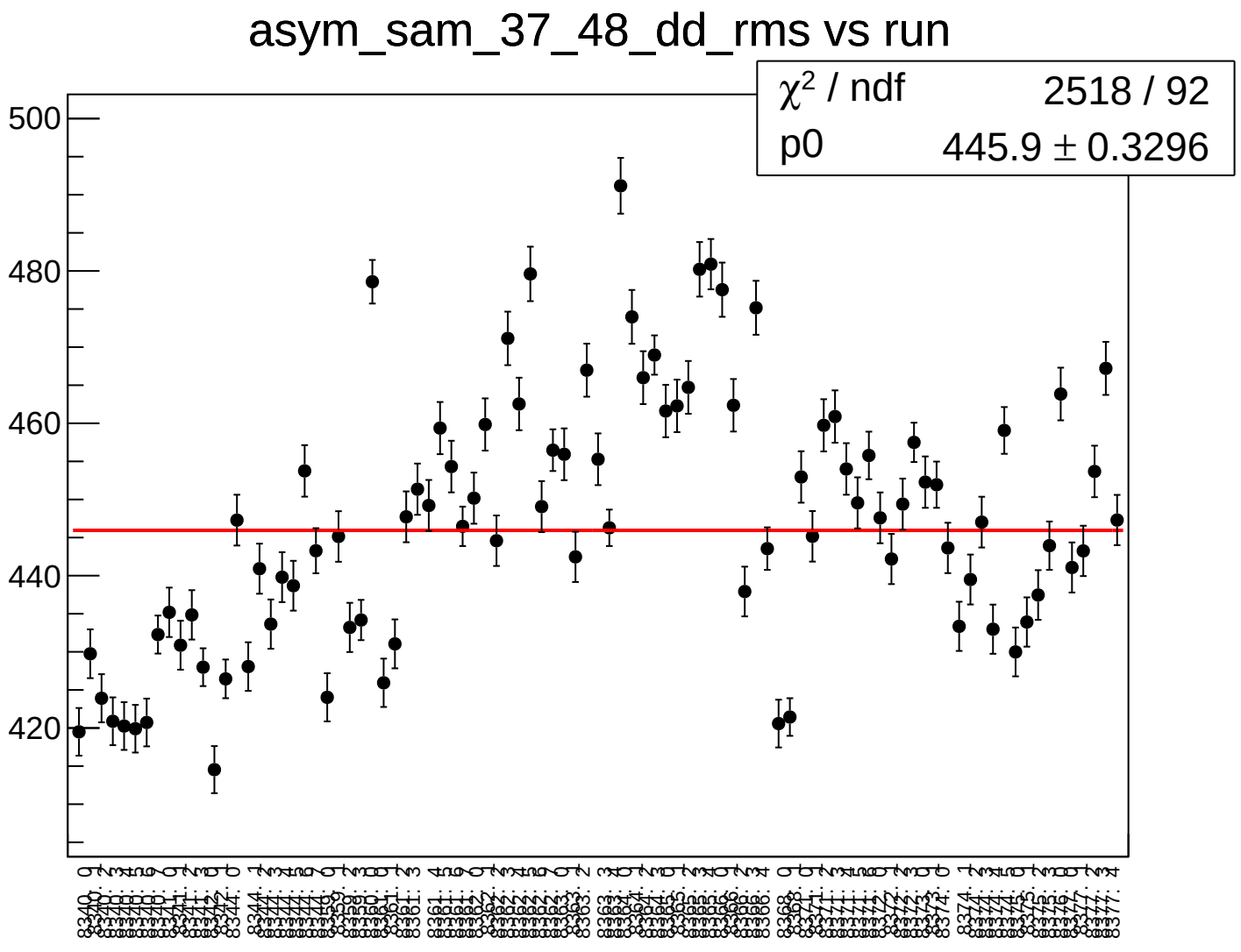
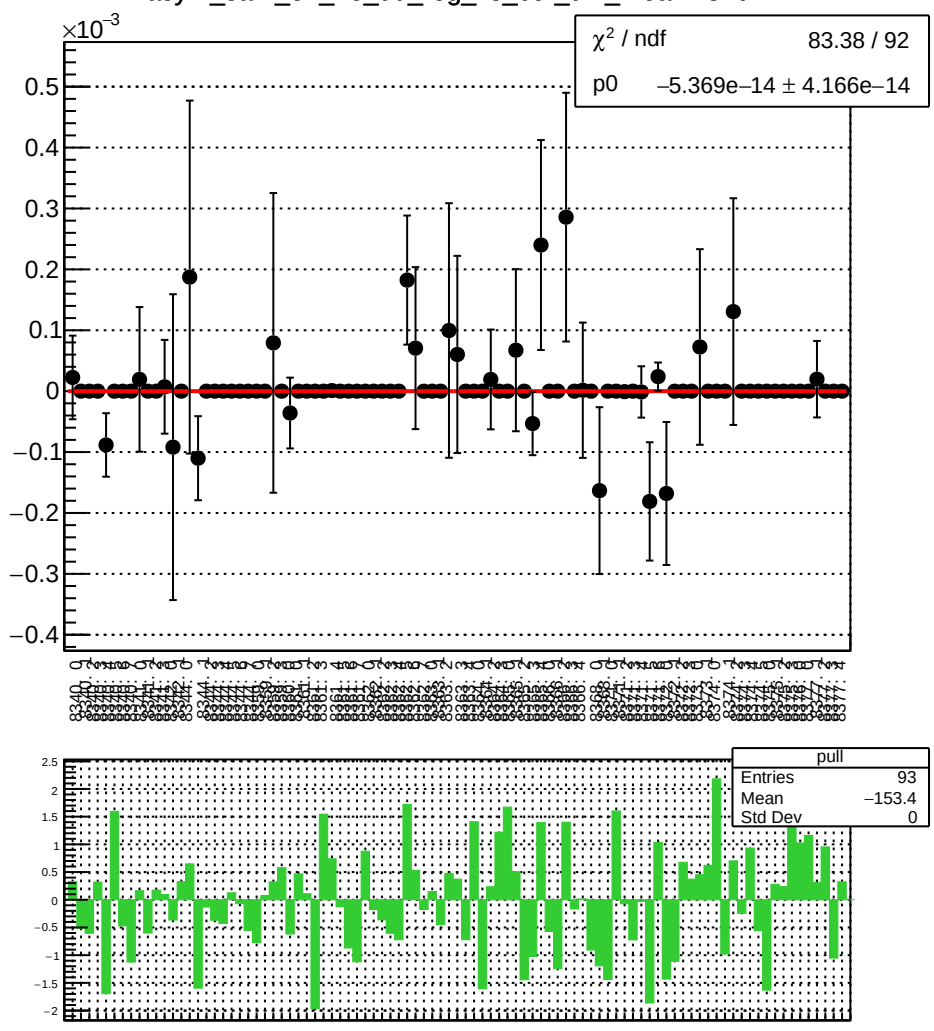
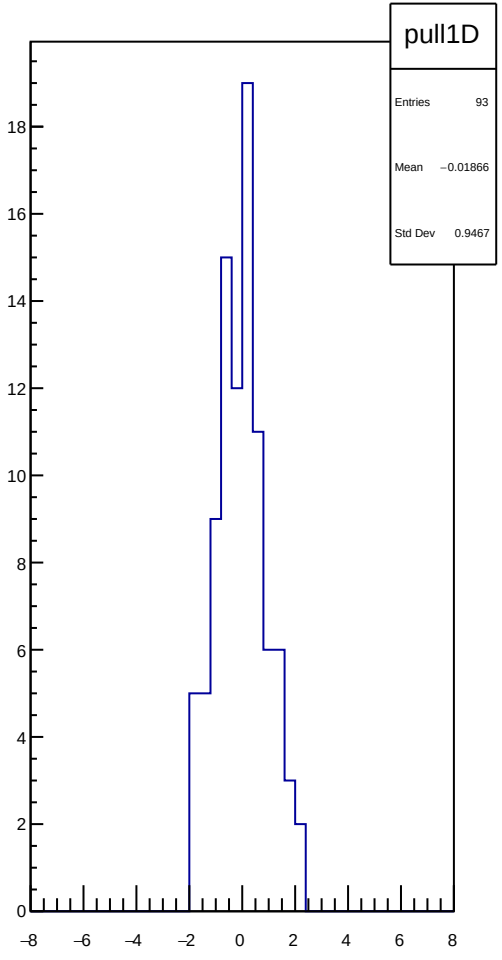
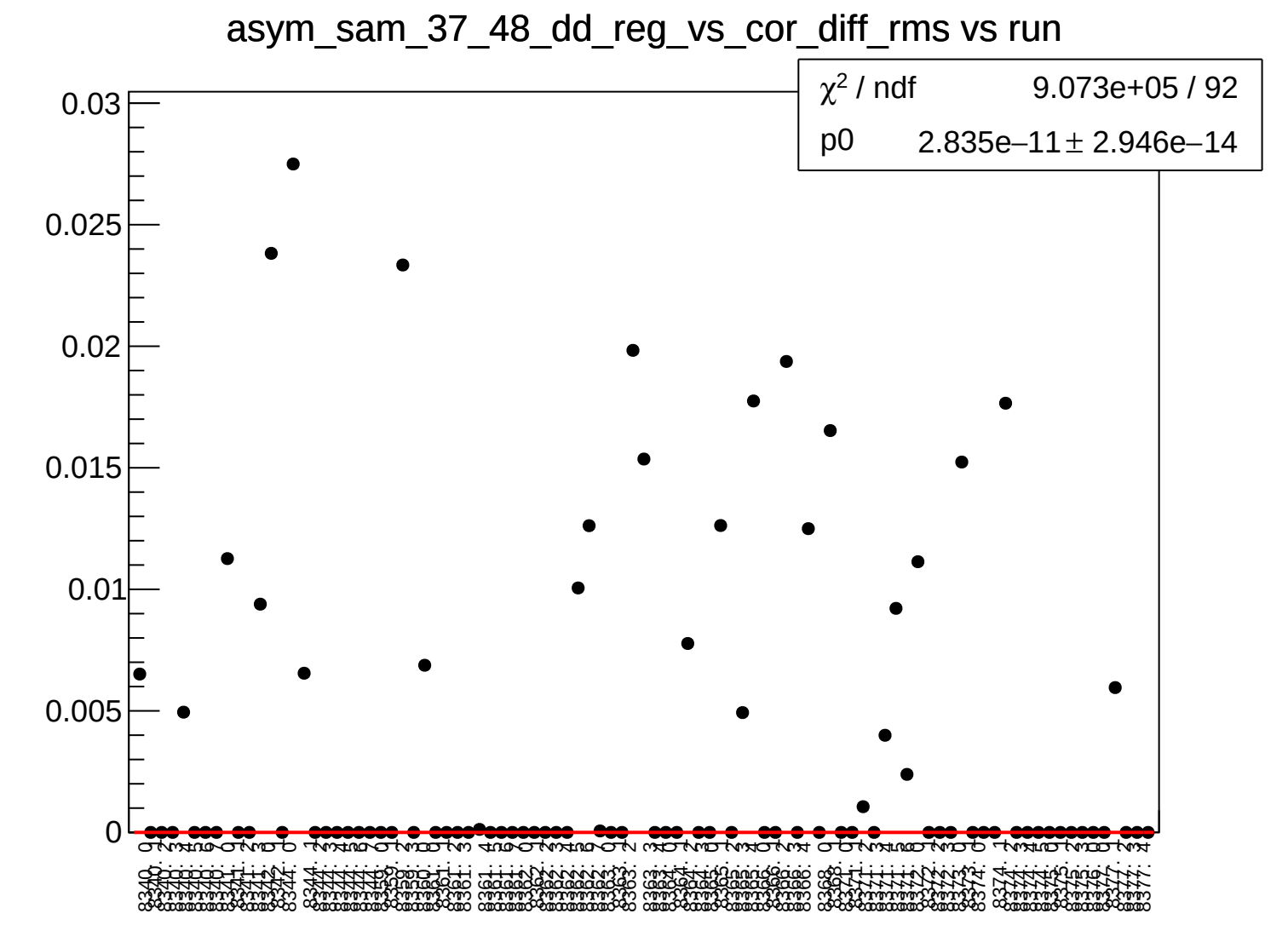
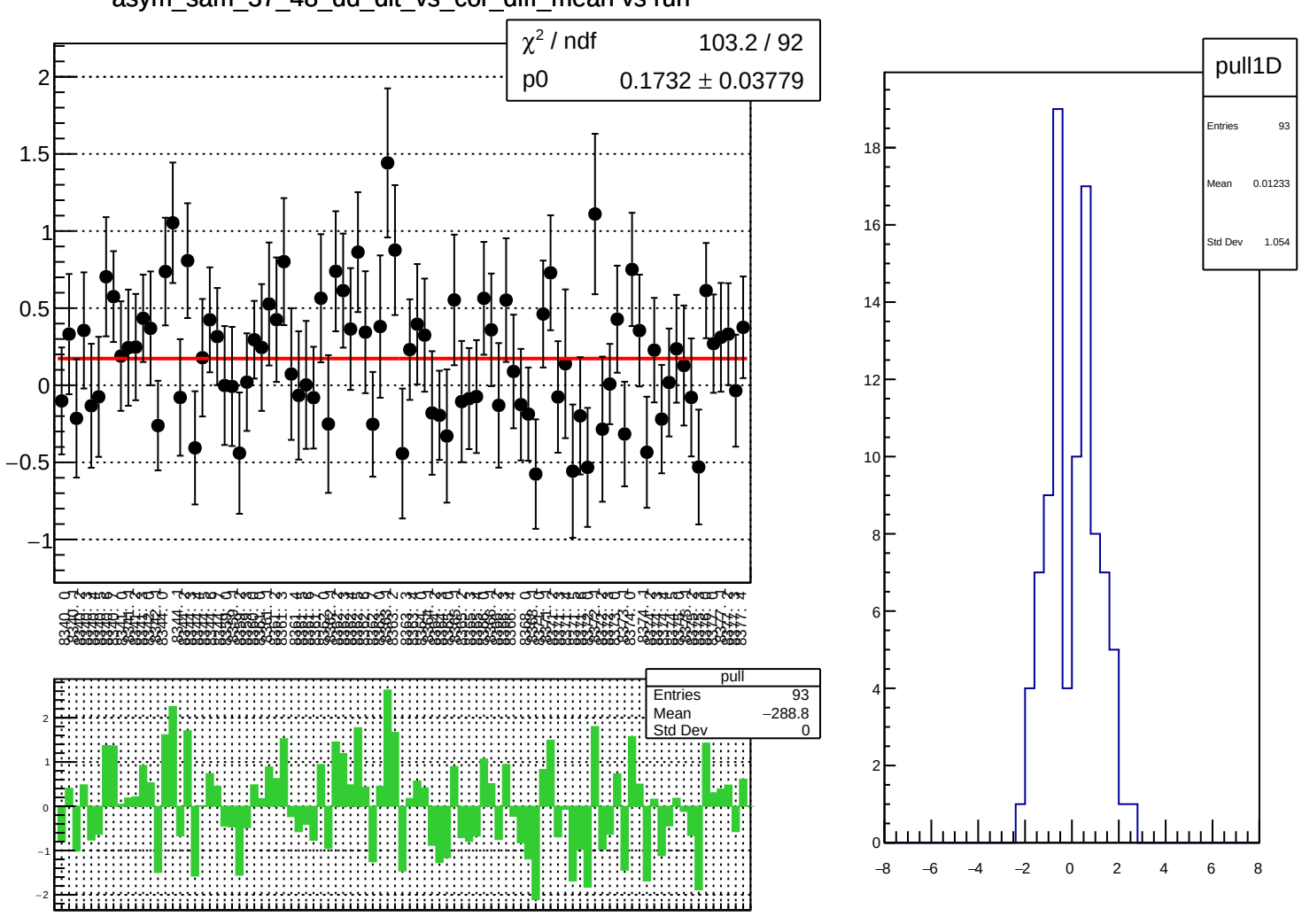
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

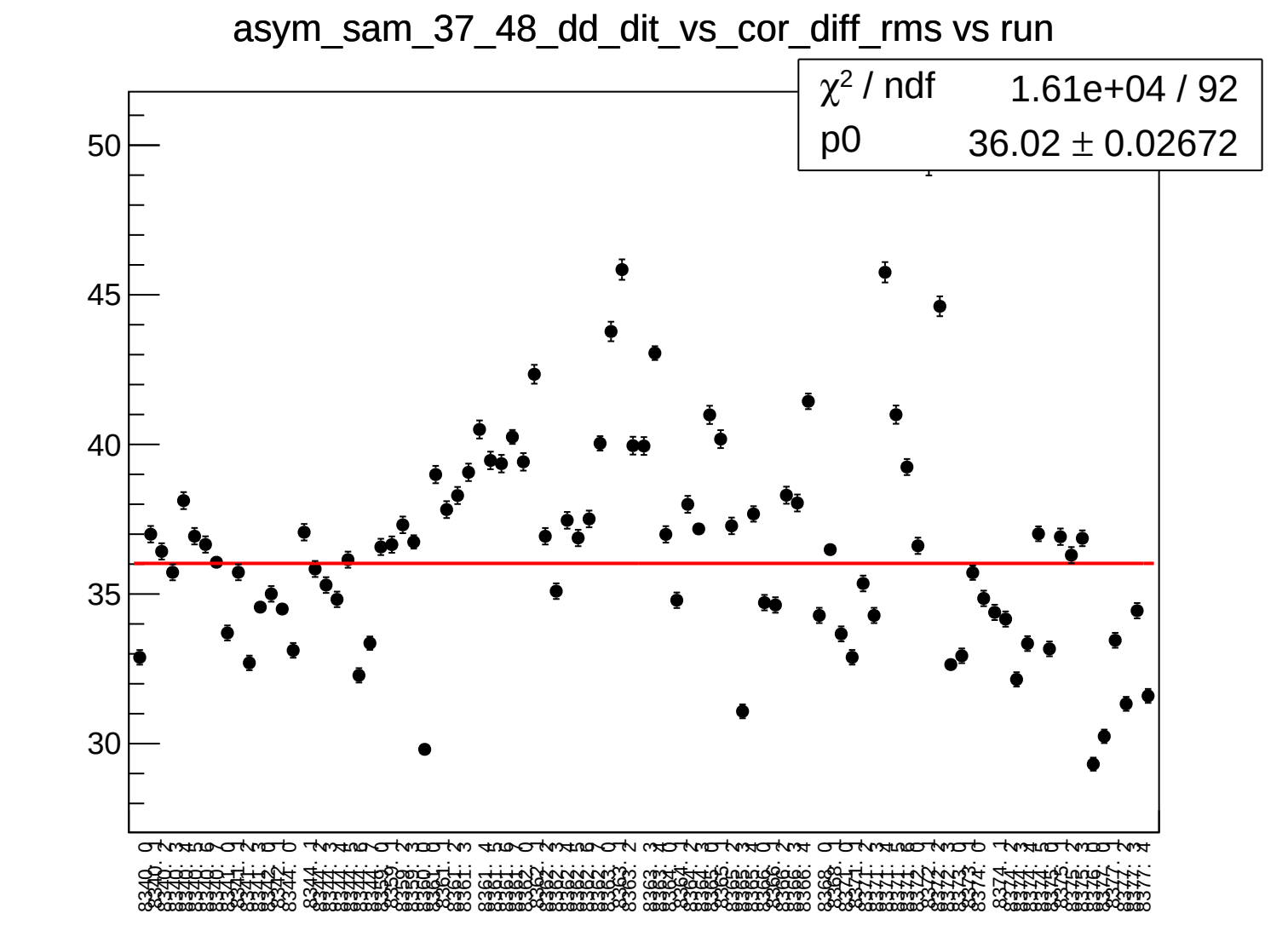

asym_sam_37_48_dd_rms vs run
χ² / ndf 2518 / 92
p0 445.9 ± 0.3296
500
480
460
440
420

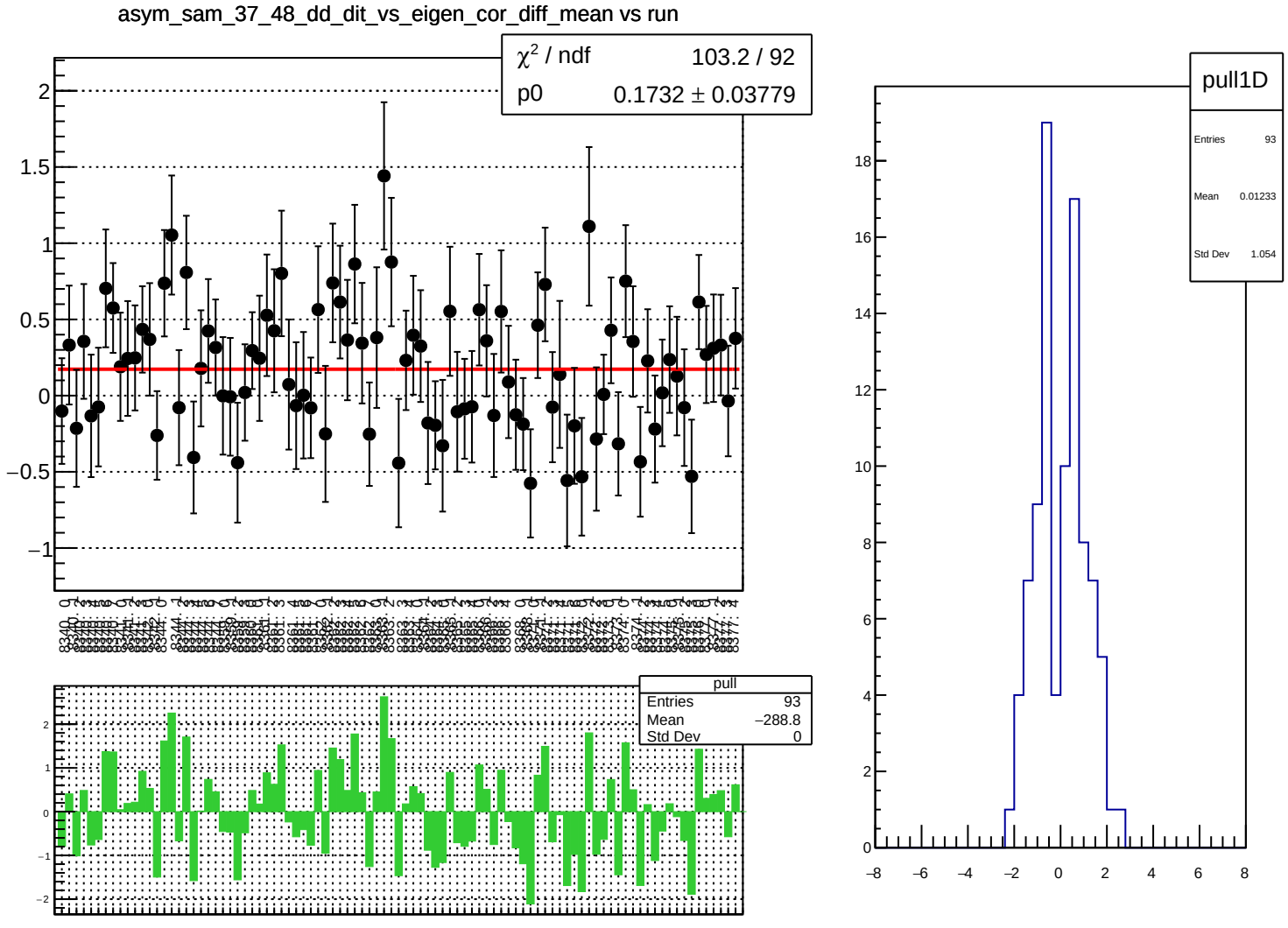

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.38 / 92
p0 −5.369e−14 ± 4.166e−14
pull
Entries 93
Mean −153.4
Std Dev 0

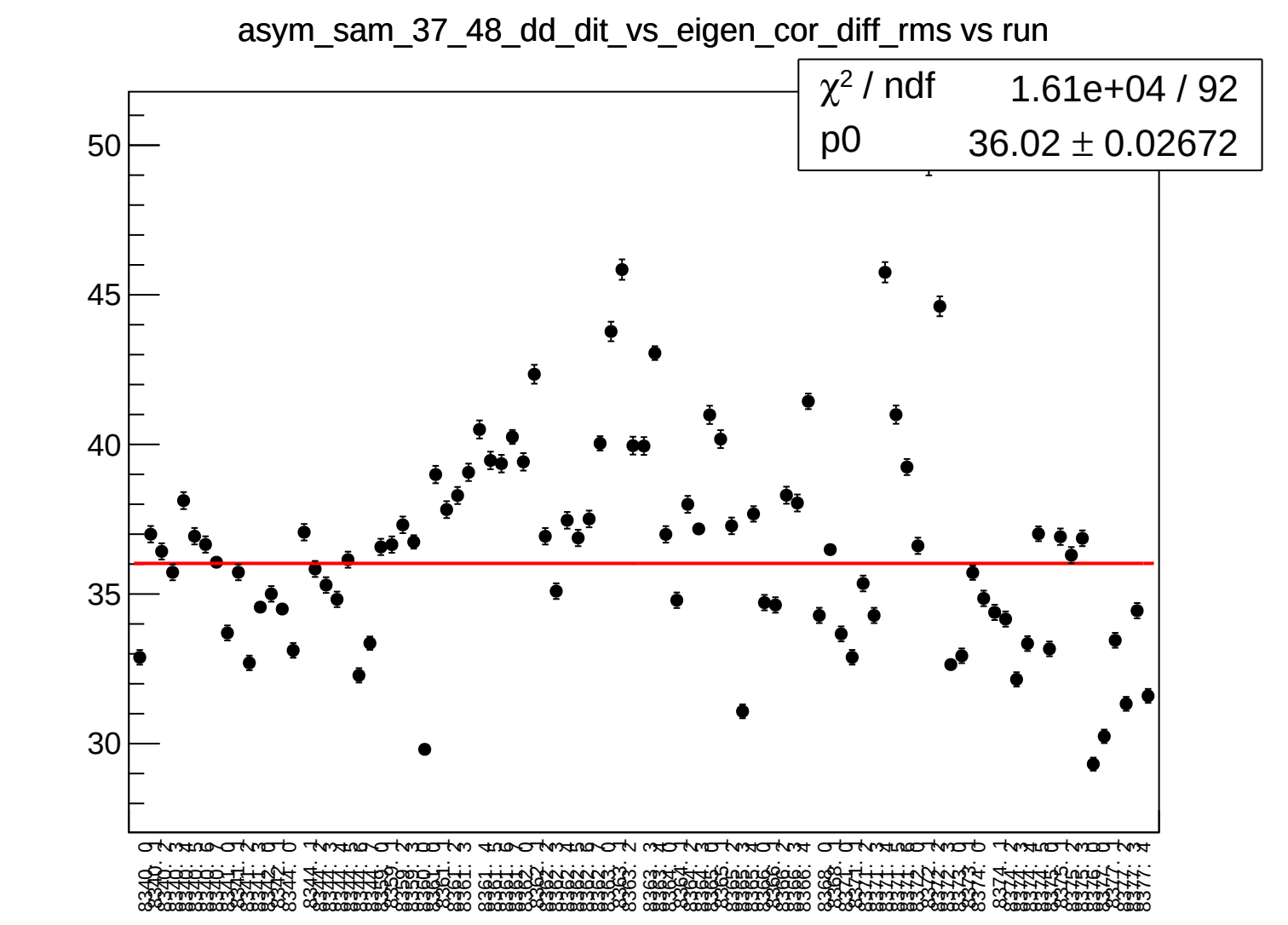

pull1D
Entries 93
Mean −0.01866
Std Dev 0.9467

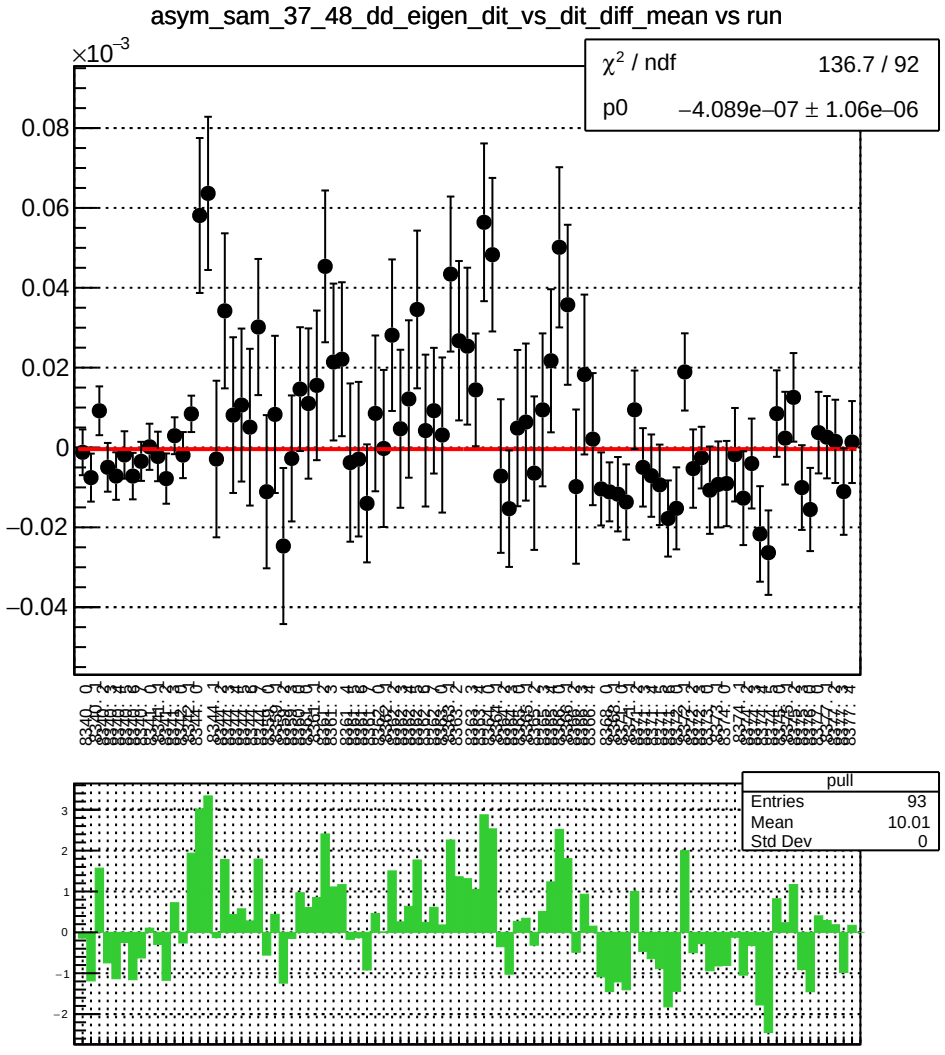

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.073e+05 / 92
p0 2.835e−11 ± 2.946e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

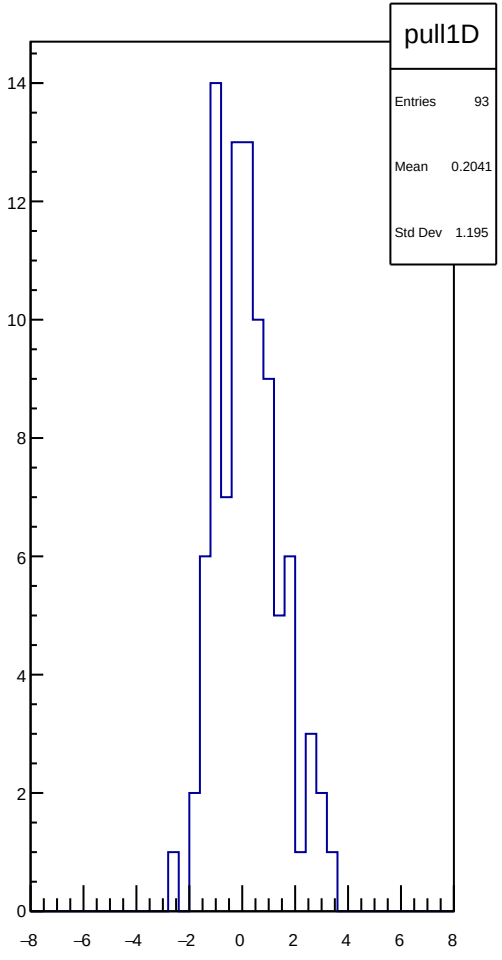

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 92
p0 0.1732 ± 0.03779
pull
Entries 93
Mean −288.8
Std Dev 0
pull1D
Entries 93
Mean 0.01233
Std Dev 1.054

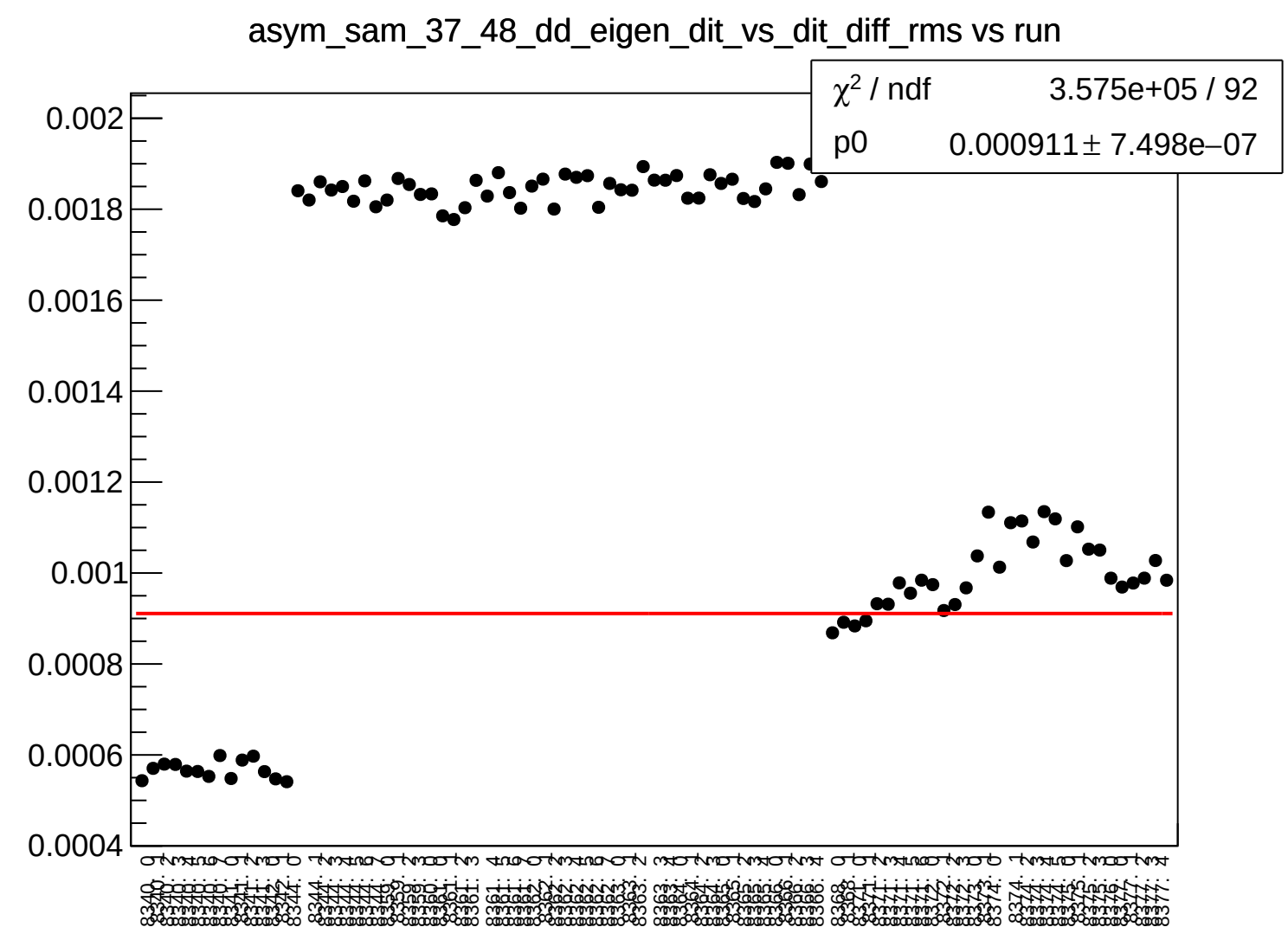

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 92
p0 36.02 ± 0.02672
50
45
40
35
30

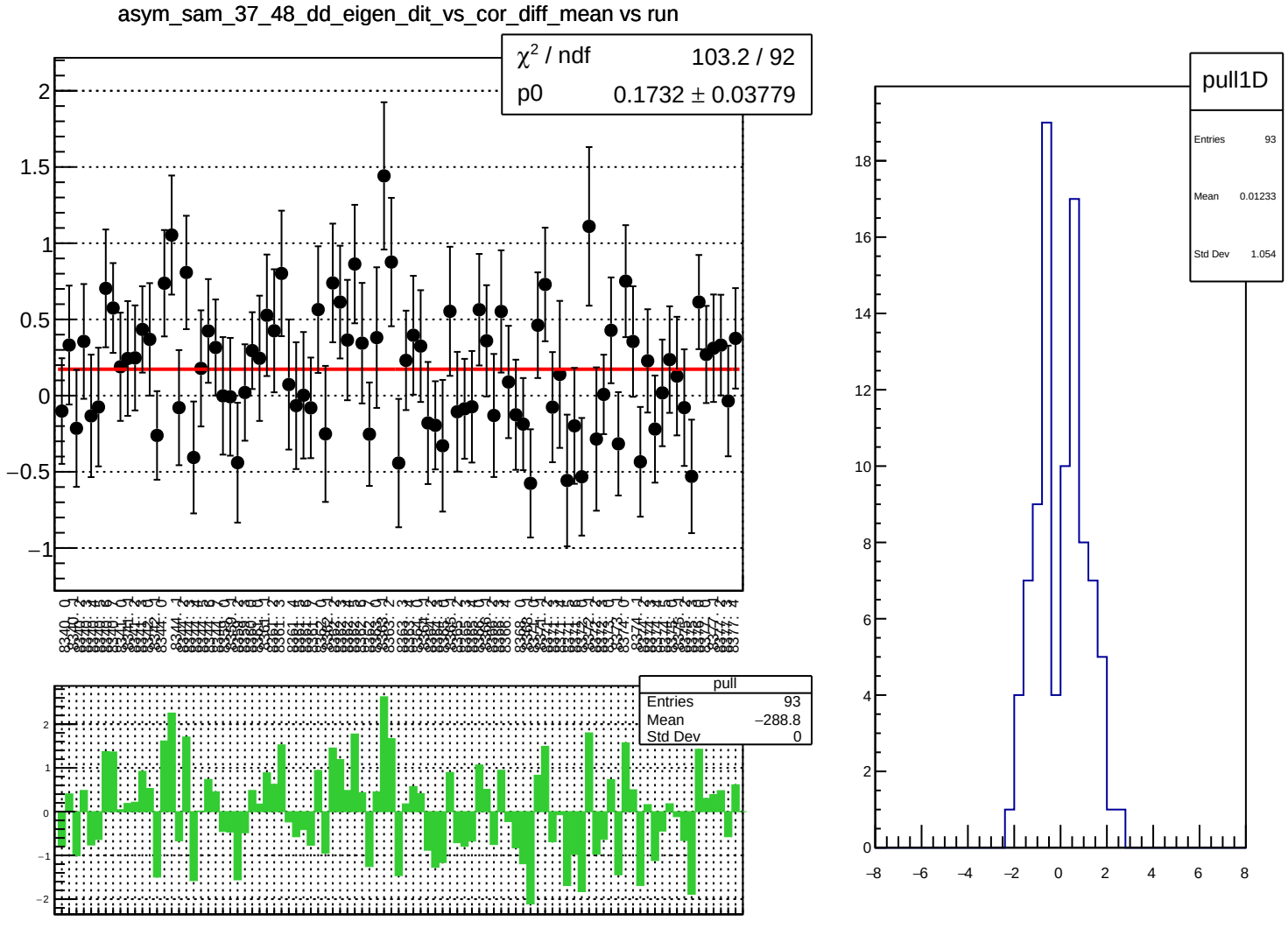

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 92
p0 0.1732 ± 0.03779
pull
Entries 93
Mean −288.8
Std Dev 0
pull1D
Entries 93
Mean 0.01233
Std Dev 1.054

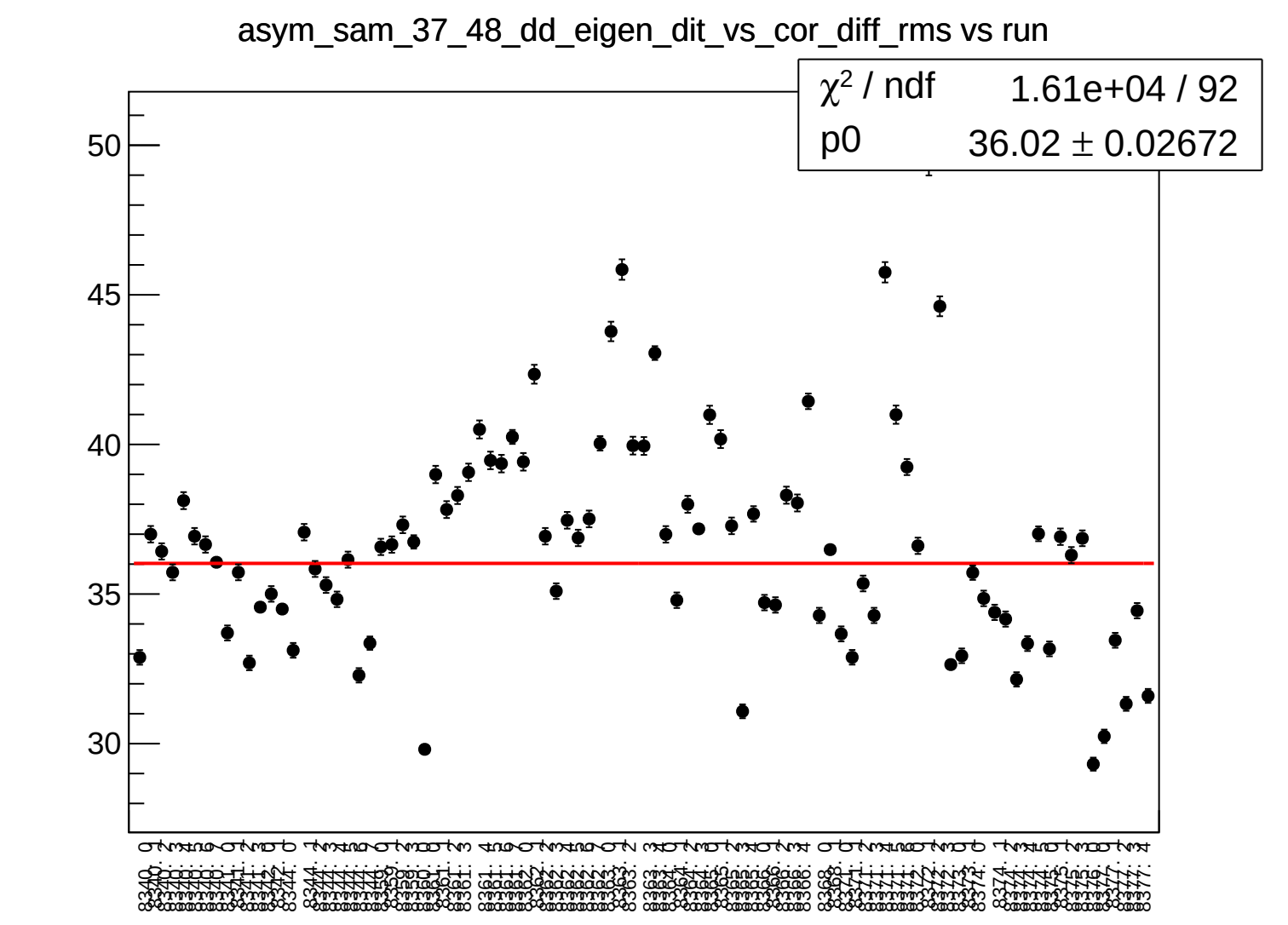

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 92
p0 36.02 ± 0.02672
50
45
40
35
30

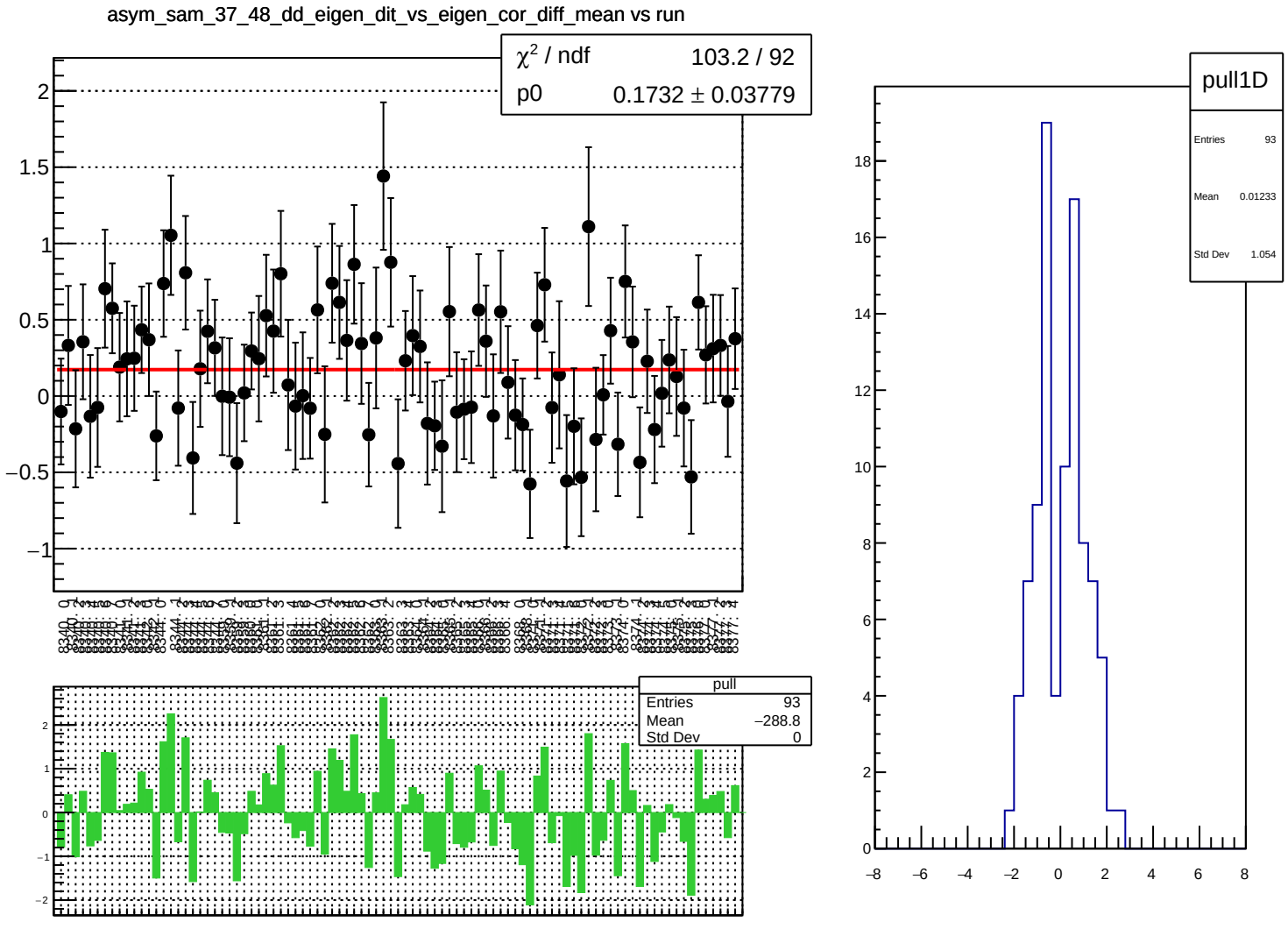

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 136.7 / 92
p0 −4.089e−07 ± 1.06e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean 10.01
Std Dev 0
3
2
1
0
−1
−2

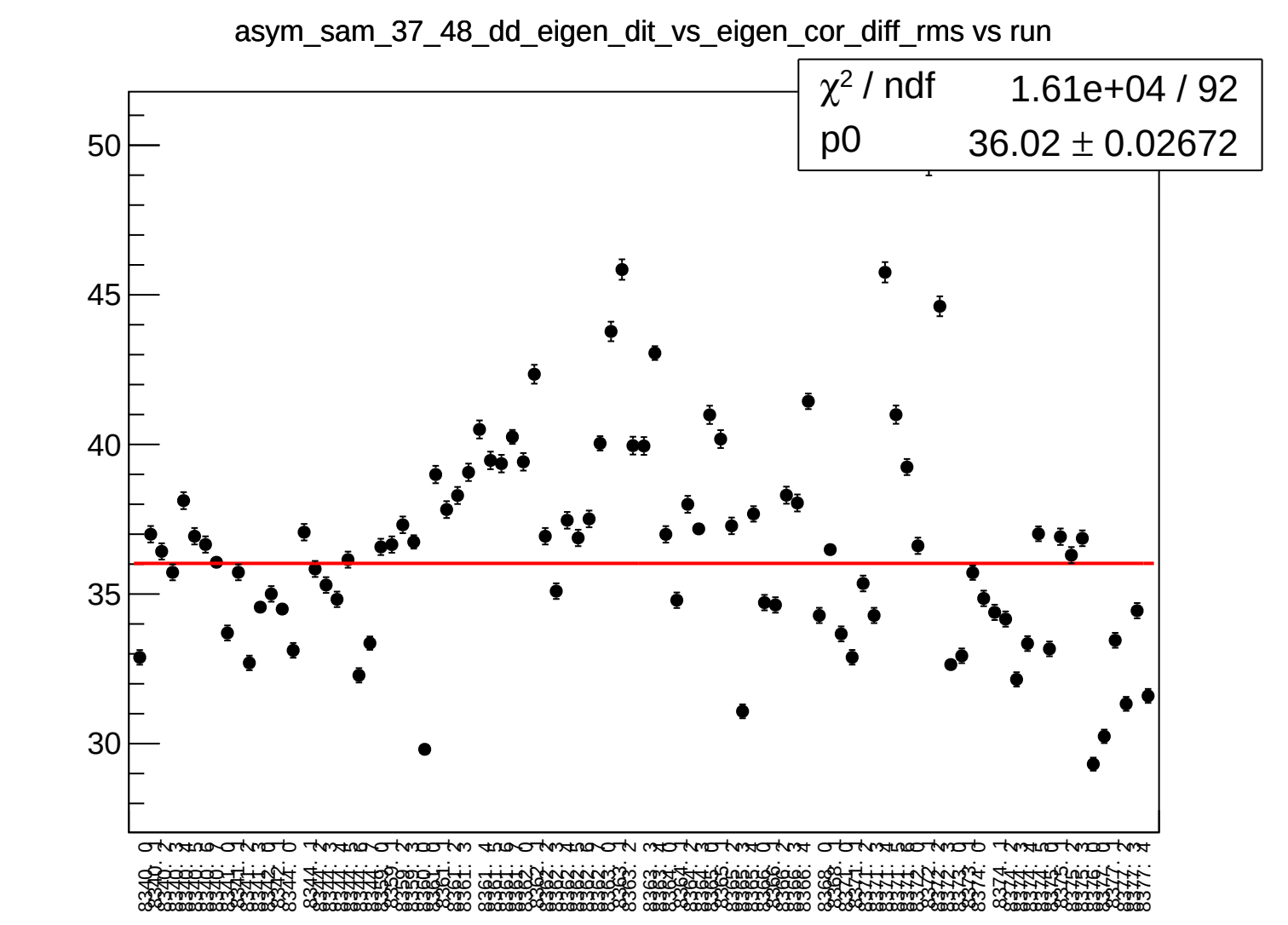

pull1D
Entries 93
Mean 0.2041
Std Dev 1.195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

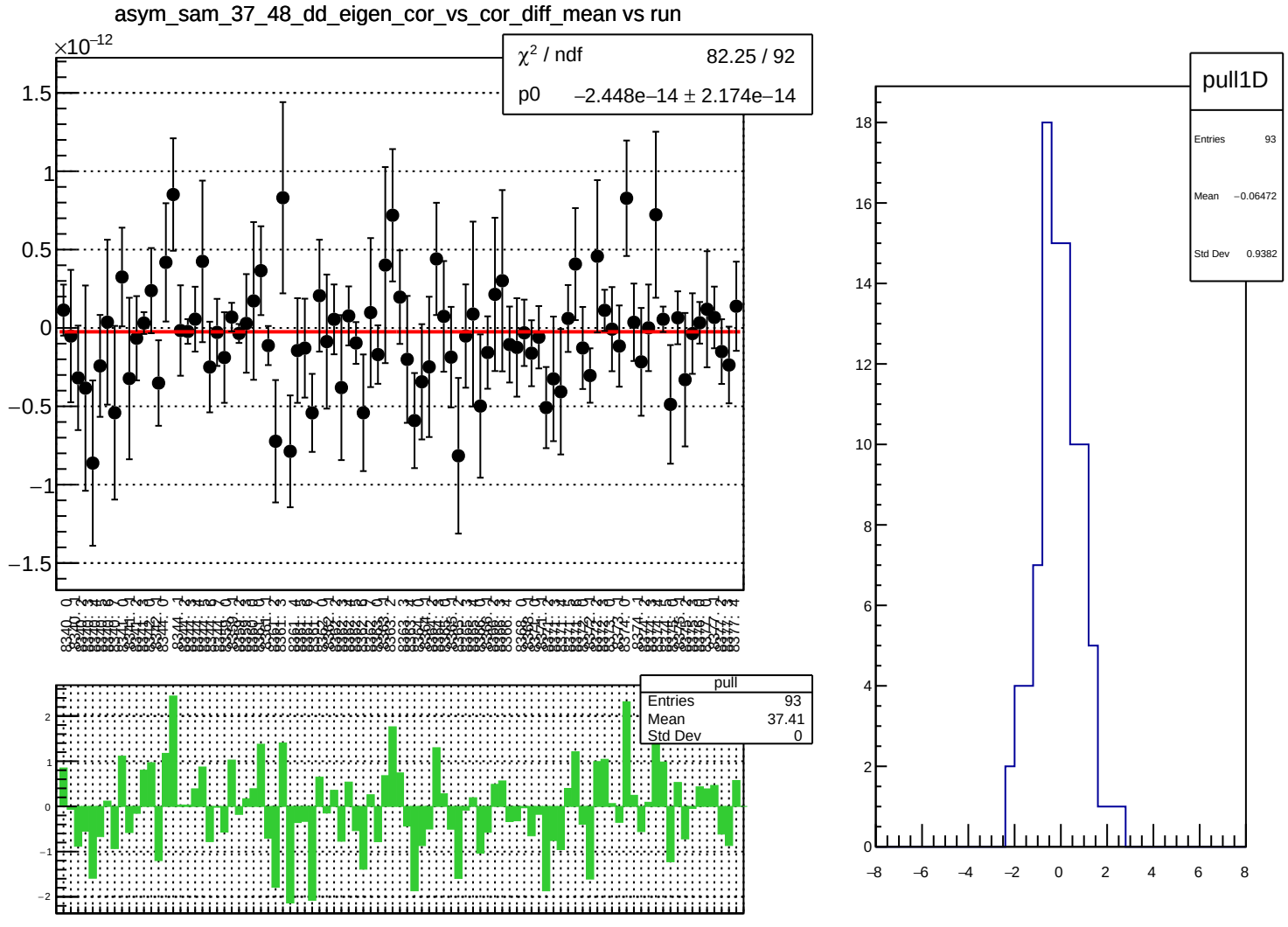

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.575e+05 / 92
p0 0.000911 ± 7.498e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

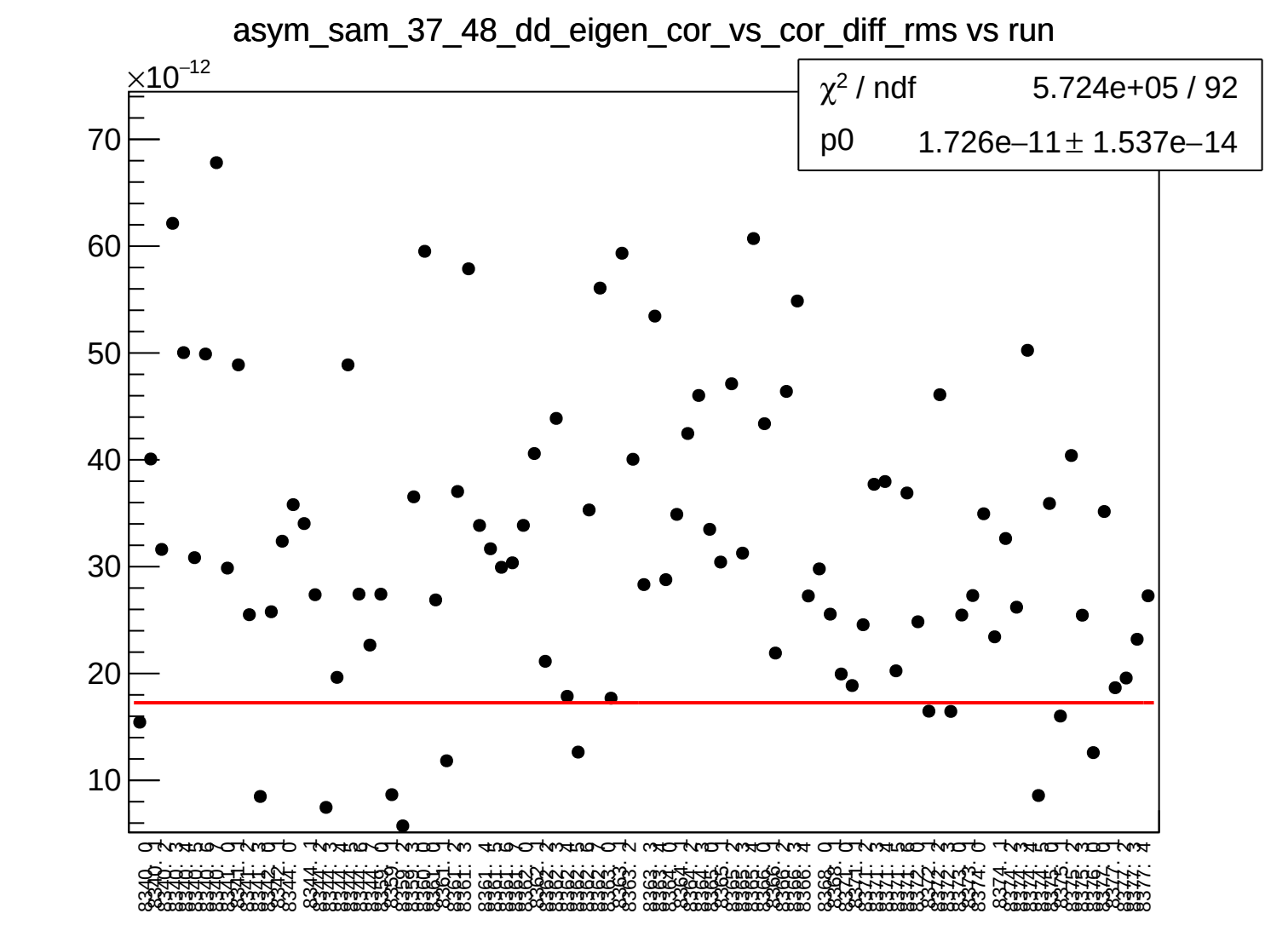

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ^2 / ndf 103.2 / 92
p0 0.1732 ± 0.03779
pull
Entries 93
Mean −288.8
Std Dev 0
pull1D
Entries 93
Mean 0.01233
Std Dev 1.054

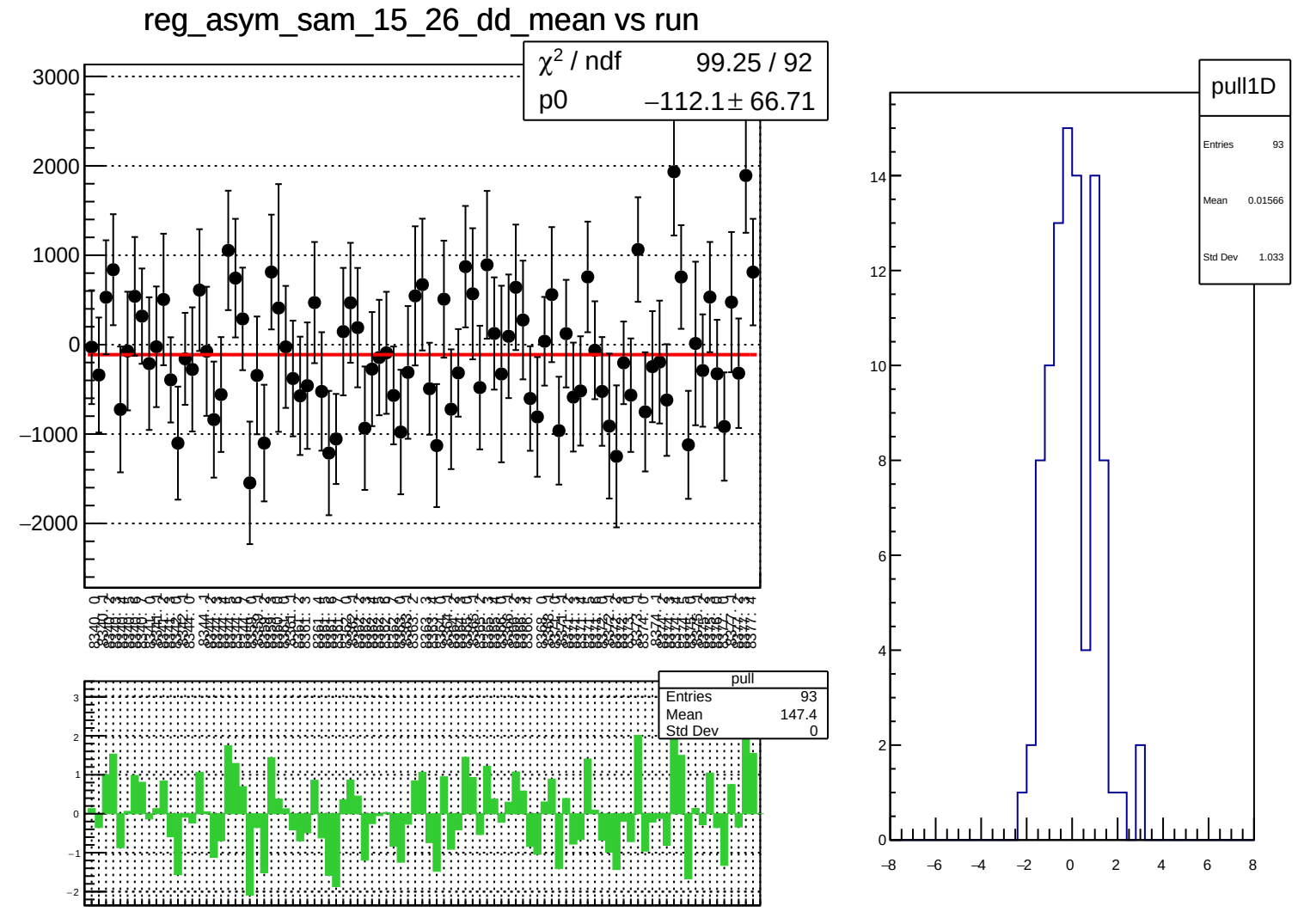

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 92
p0 36.02 ± 0.02672
50
45
40
35
30

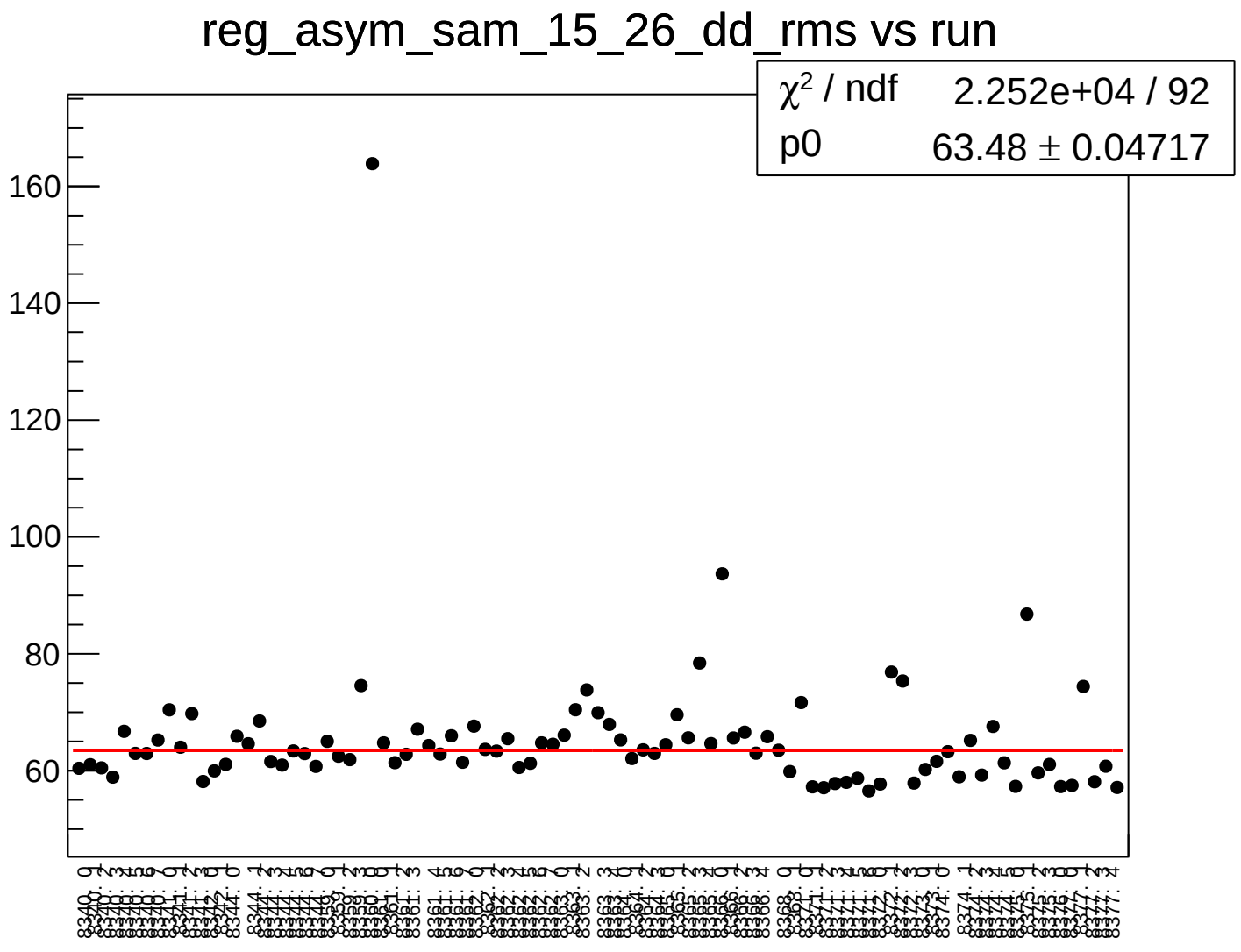

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 92
p0 0.1732 ± 0.03779
pull
Entries 93
Mean −288.8
Std Dev 0
pull1D
Entries 93
Mean 0.01233
Std Dev 1.054

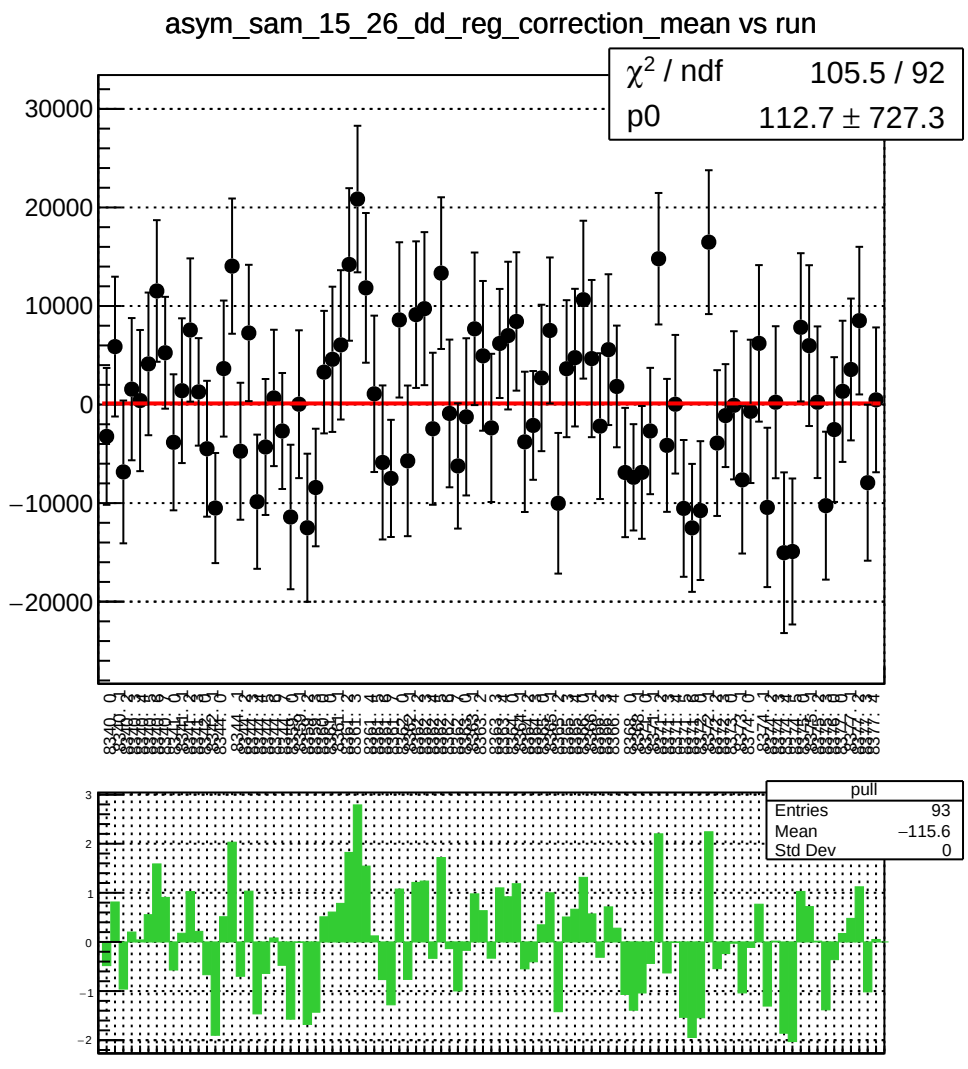

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.61e+04 / 92
p0 36.02 ± 0.02672
50
45
40
35
30

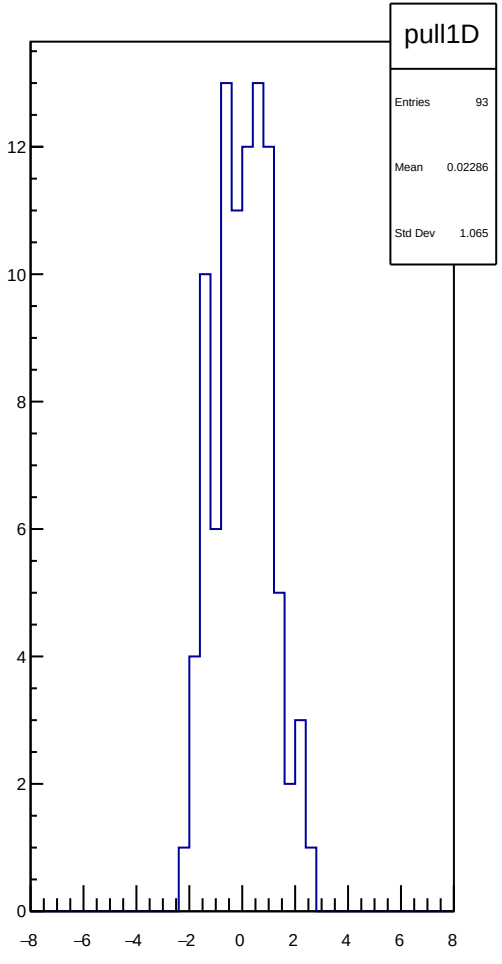

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.25 / 92
p0 −2.448e−14 ± 2.174e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 93
Mean 37.41
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.06472
Std Dev 0.9382
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

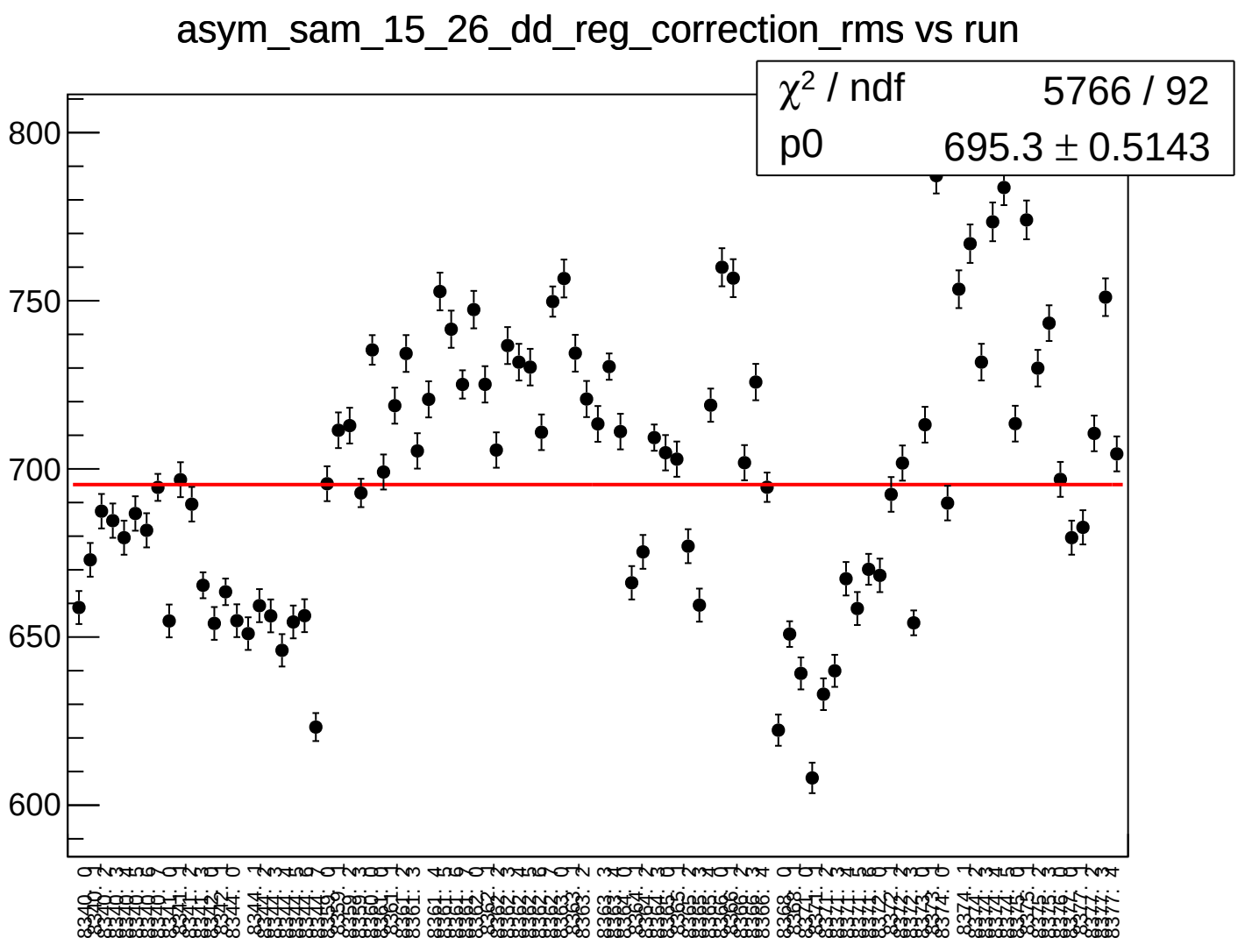

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.724e+05 / 92
p0 1.726e−11 ± 1.537e−14

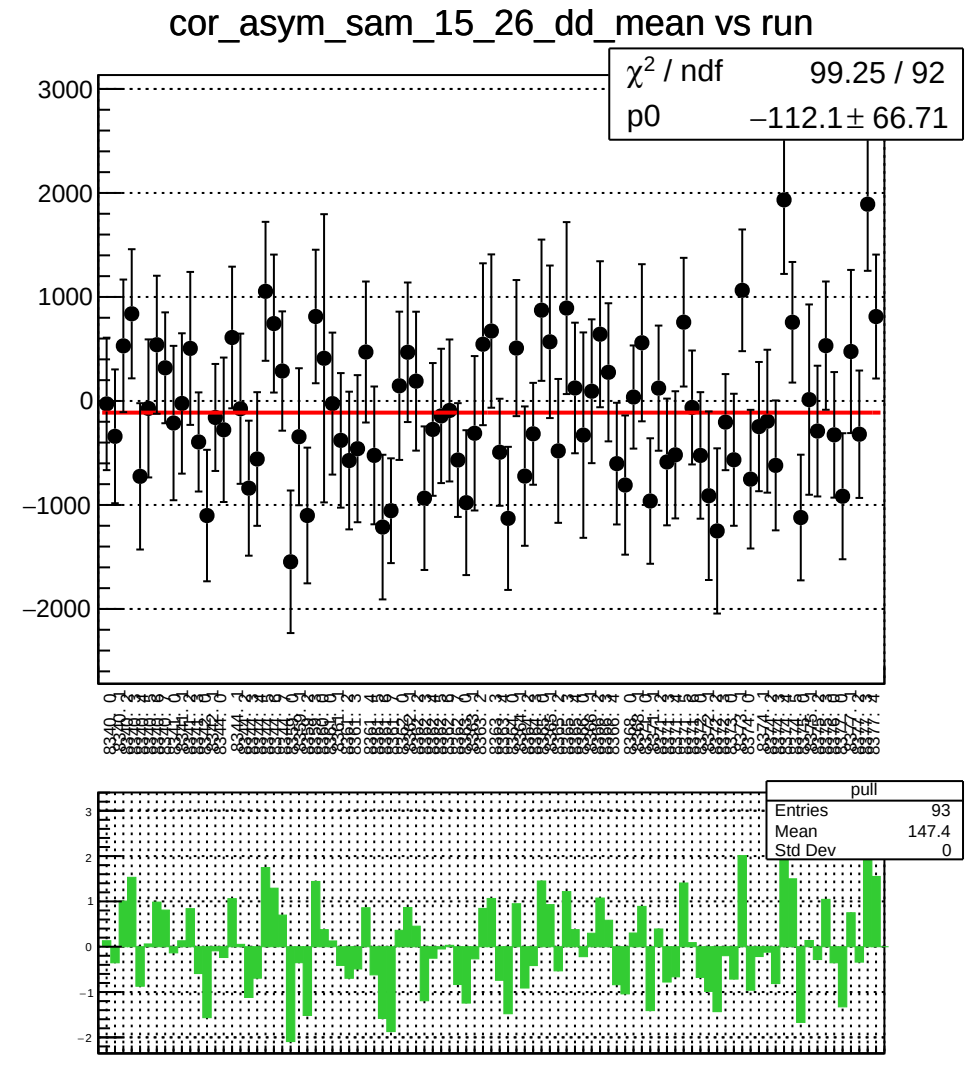

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −112.1 ± 66.71
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 147.4
Std Dev 0
pull1D
Entries 93
Mean 0.01566
Std Dev 1.033

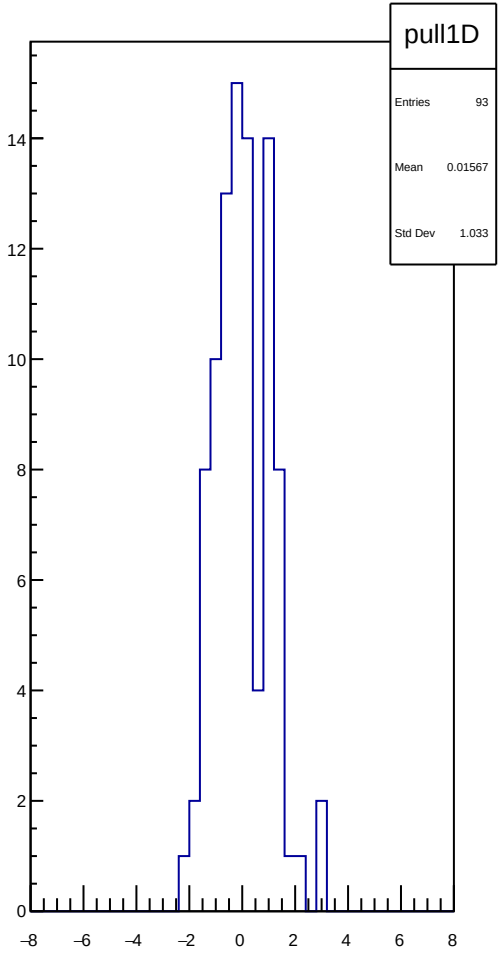

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.252e+04 / 92
p0 63.48 ± 0.04717
160
140
120
100
80
60

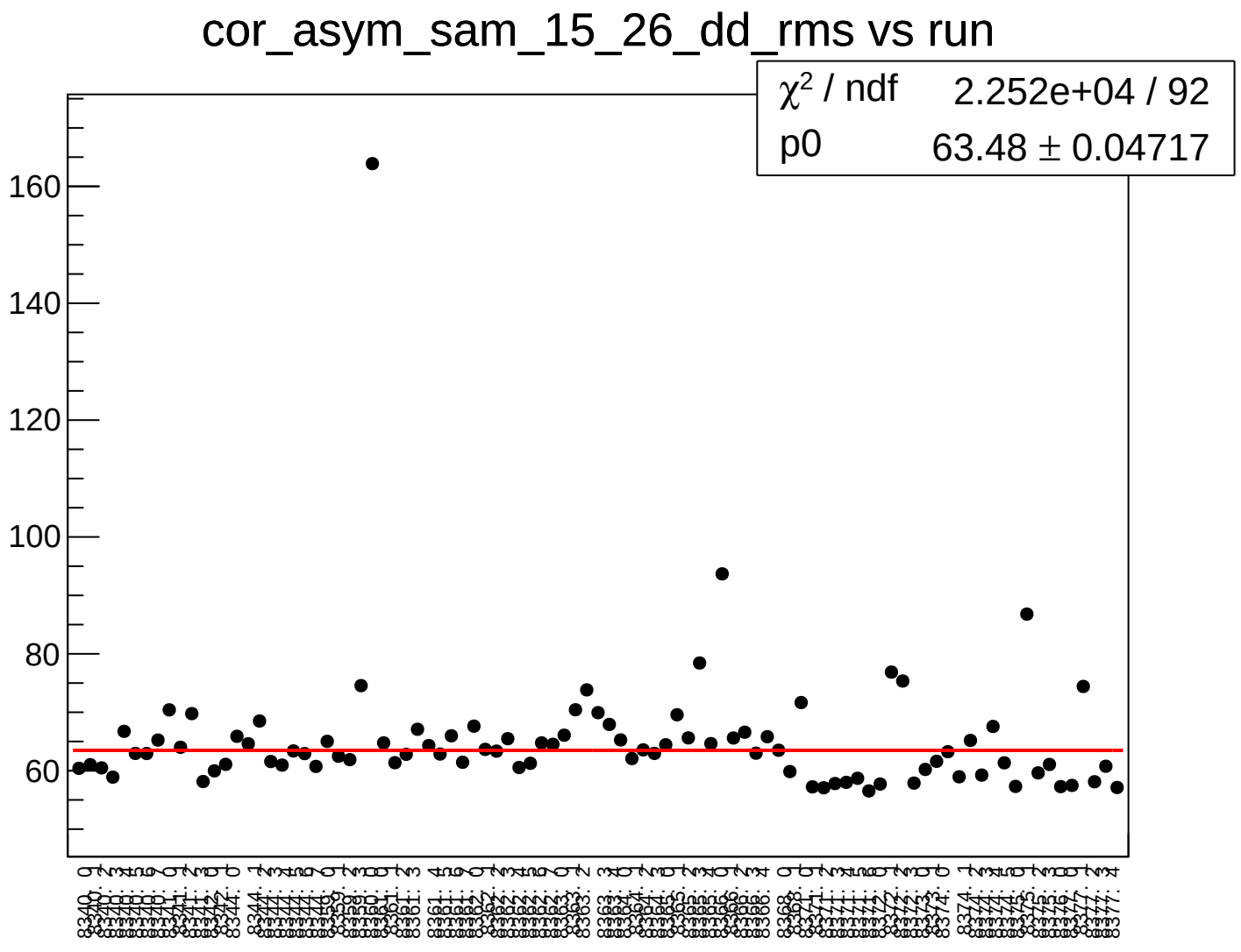

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 105.5 / 92
p0 112.7 ± 727.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −115.6
Std Dev 0
3
2
1
0
−1
−2

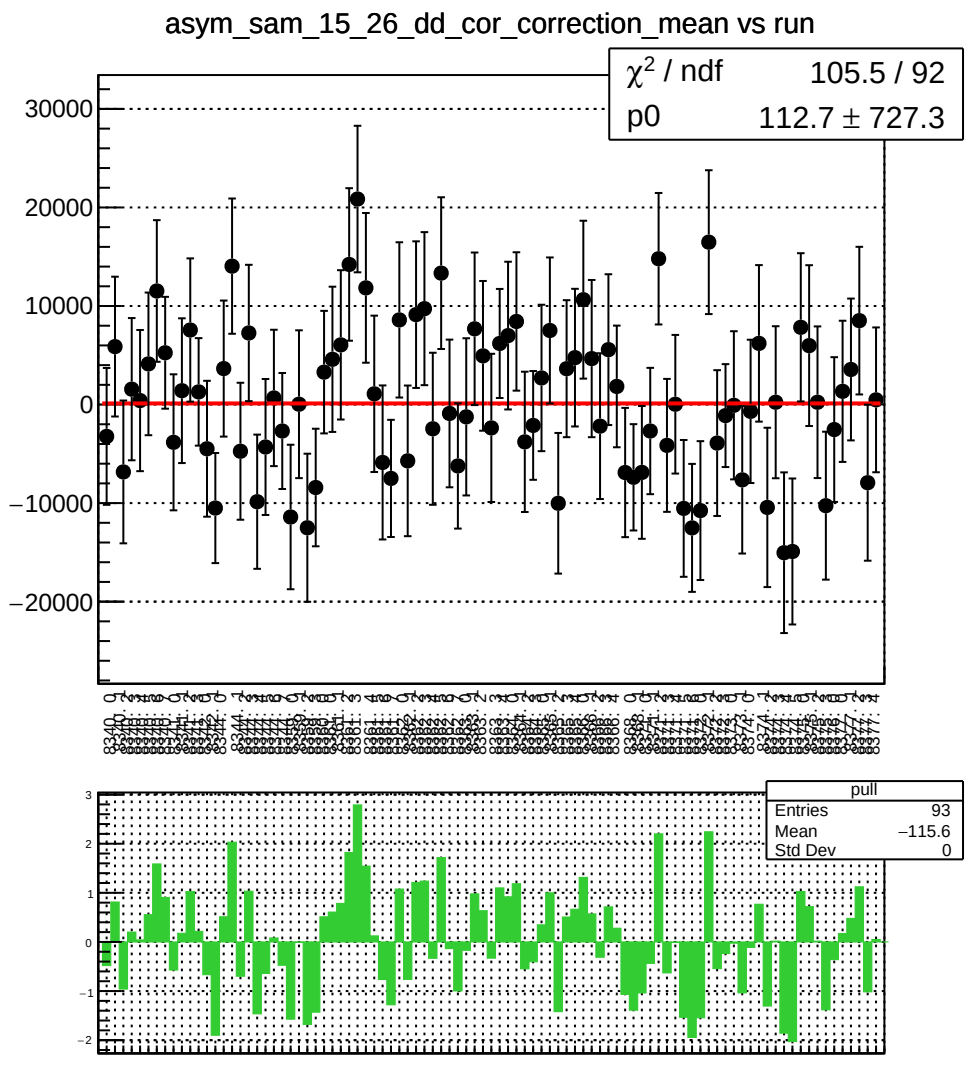

pull1D
Entries 93
Mean 0.02286
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

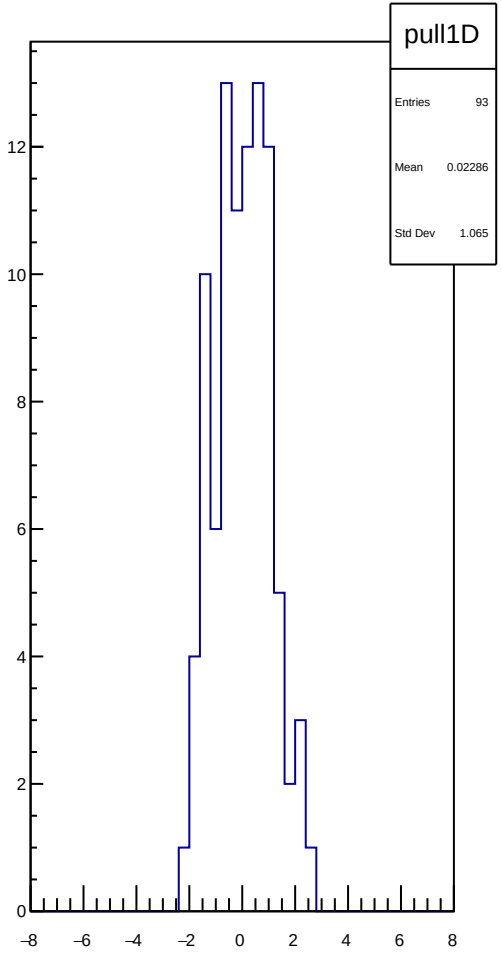

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5766 / 92
p0 695.3 ± 0.5143
800
750
700
650
600

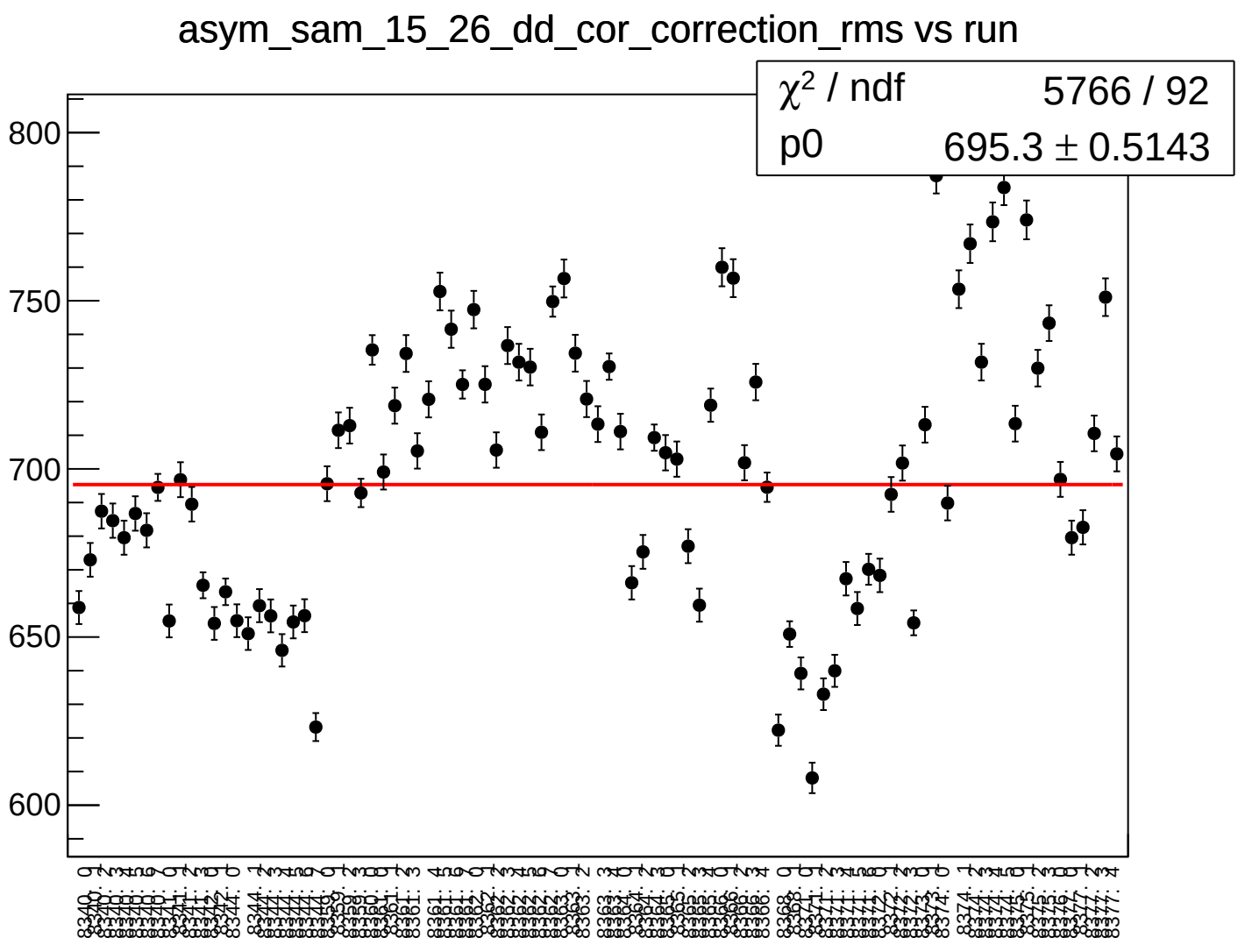

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −112.1 ± 66.71
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 147.4
Std Dev 0
3
2
1
0
−1
−2

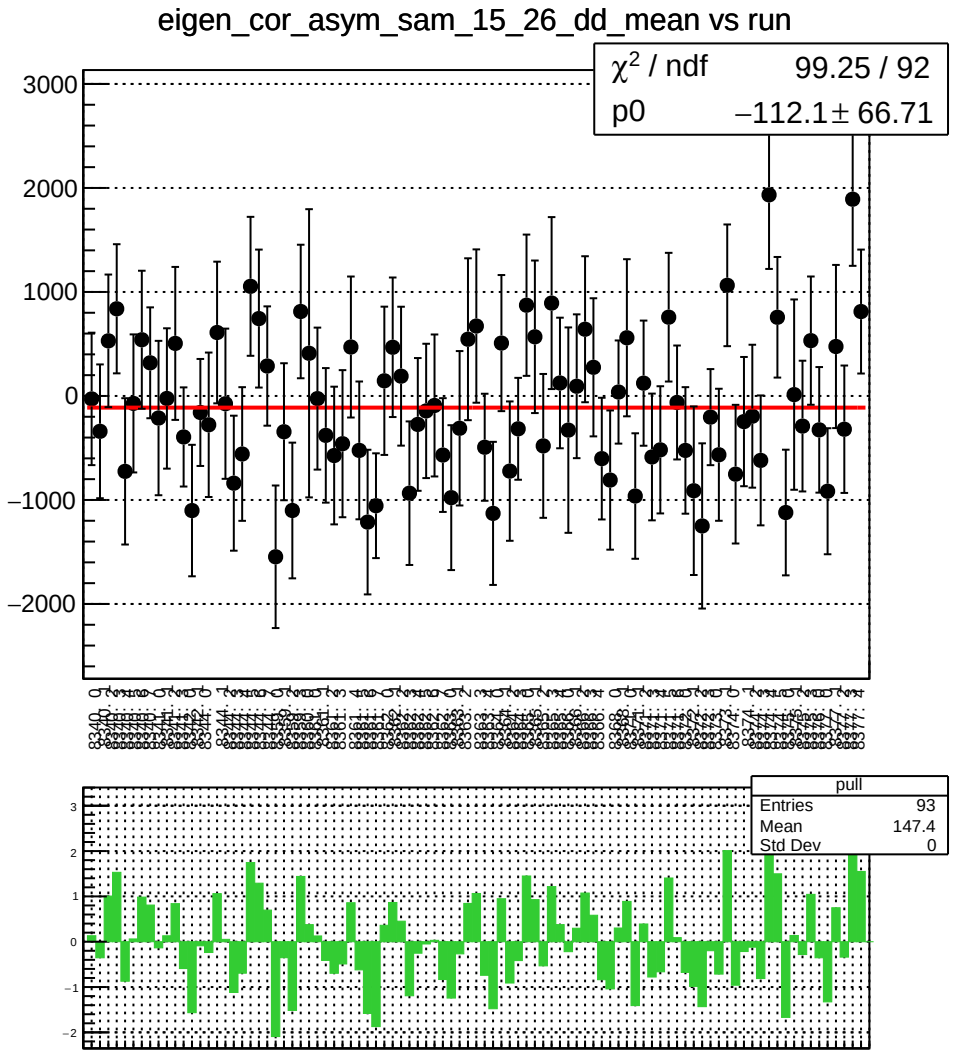

pull1D
Entries 93
Mean 0.01567
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

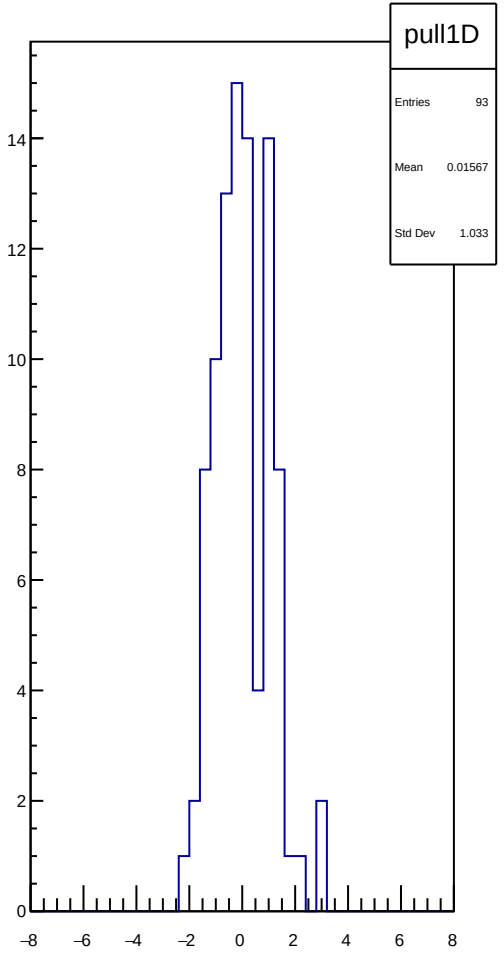

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.252e+04 / 92
p0 63.48 ± 0.04717
160
140
120
100
80
60

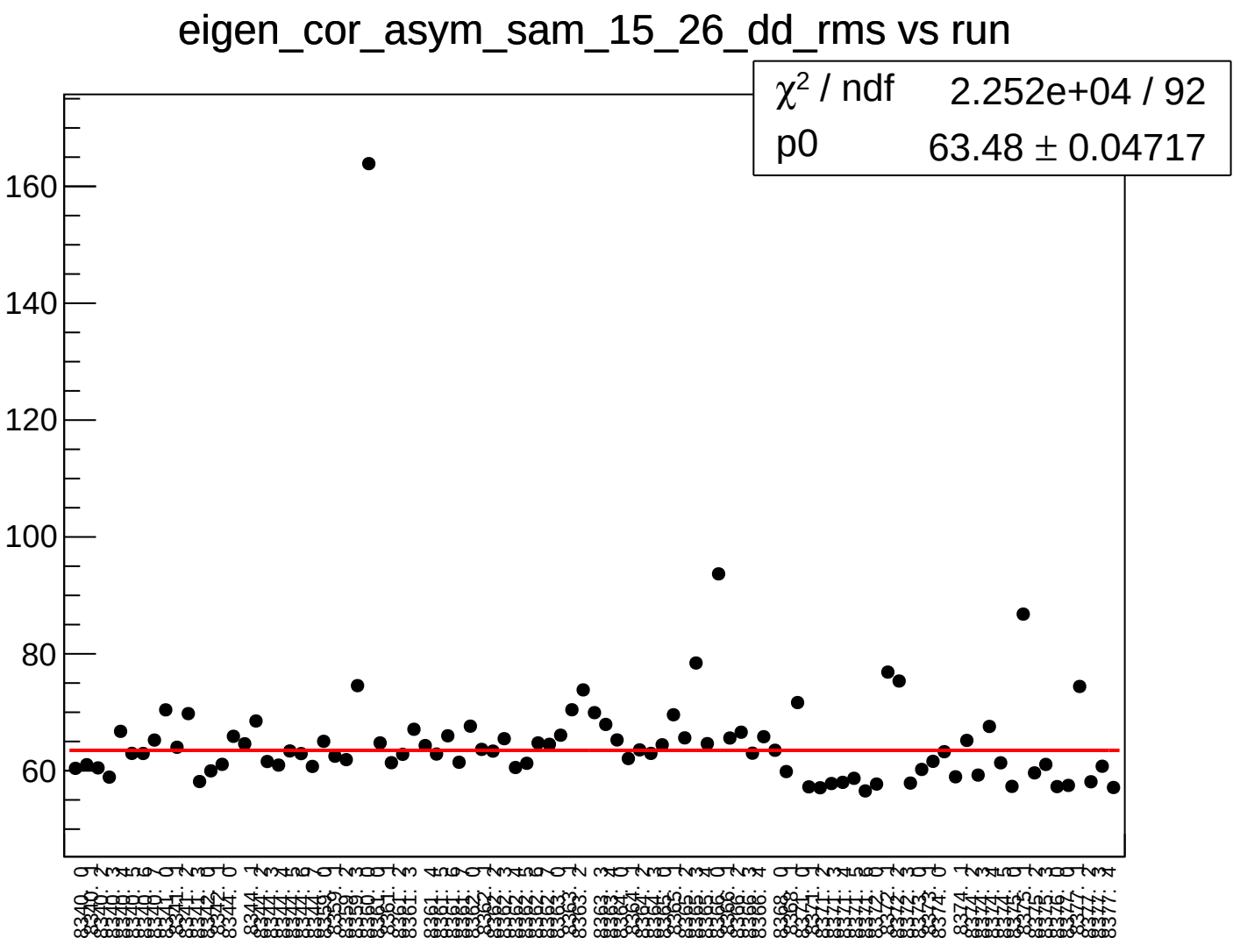

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 105.5 / 92
p0 112.7 ± 727.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −115.6
Std Dev 0
3
2
1
0
−1
−2

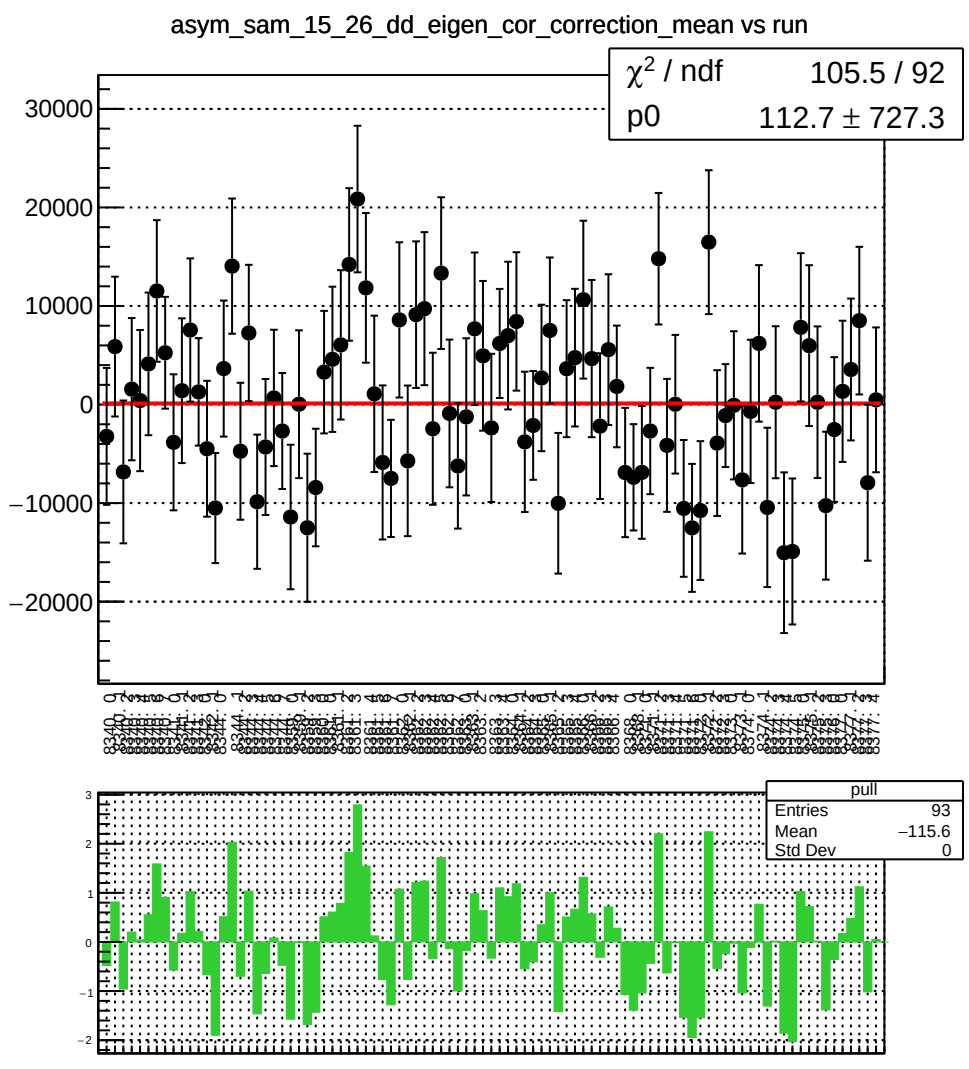

pull1D
Entries 93
Mean 0.02286
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

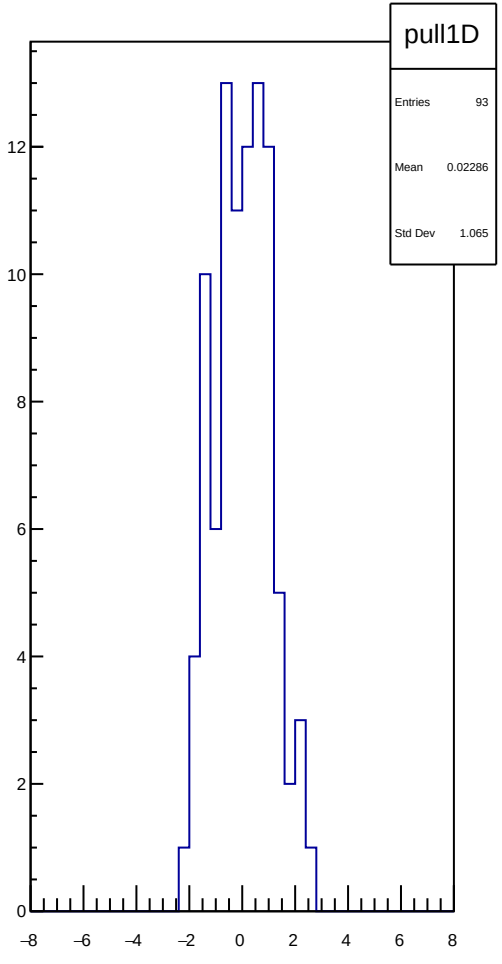

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5766 / 92
p0 695.3 ± 0.5143
800
750
700
650
600

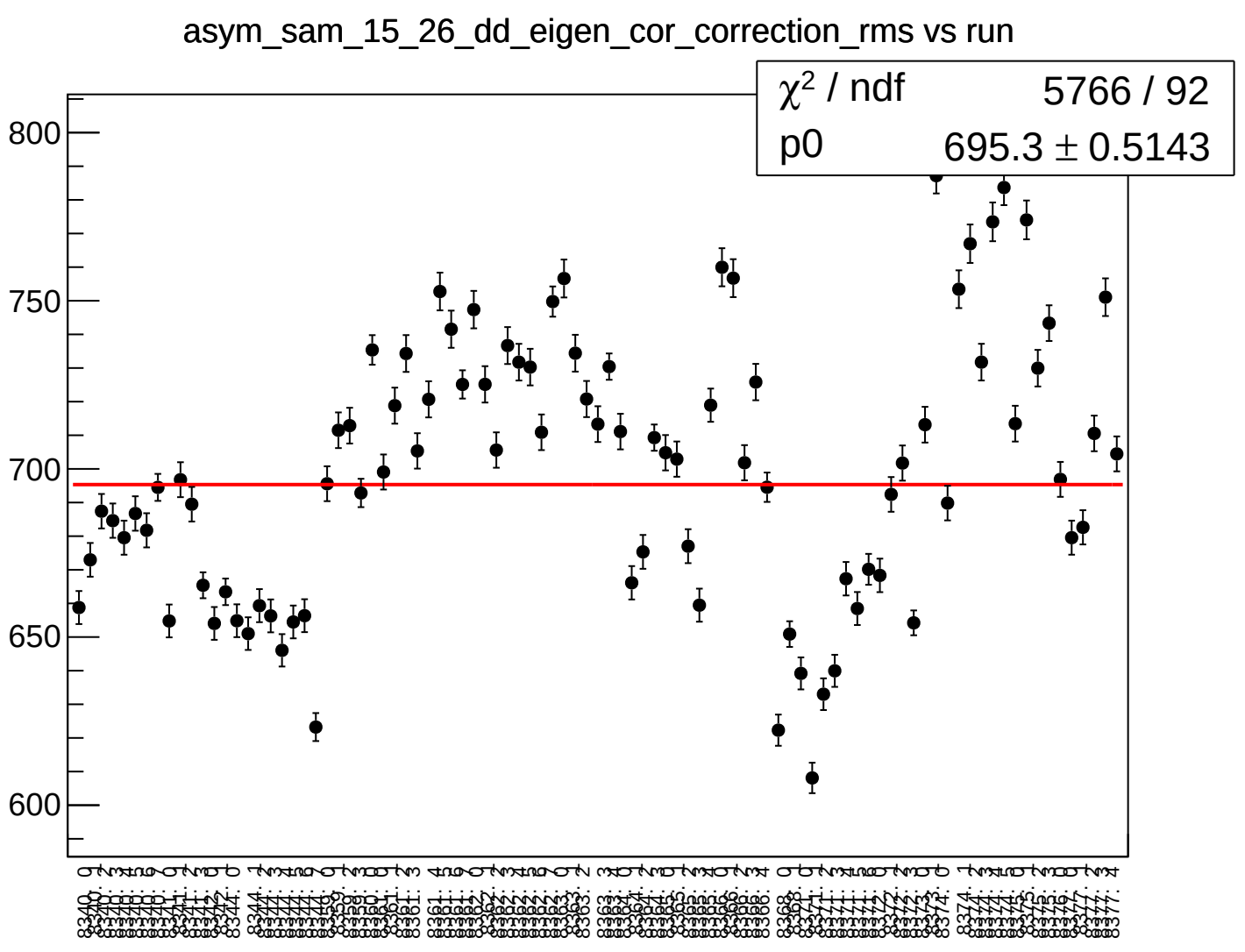

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 99.25 / 92
p0 −112.1 ± 66.71
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 147.4
Std Dev 0
3
2
1
0
−1
−2

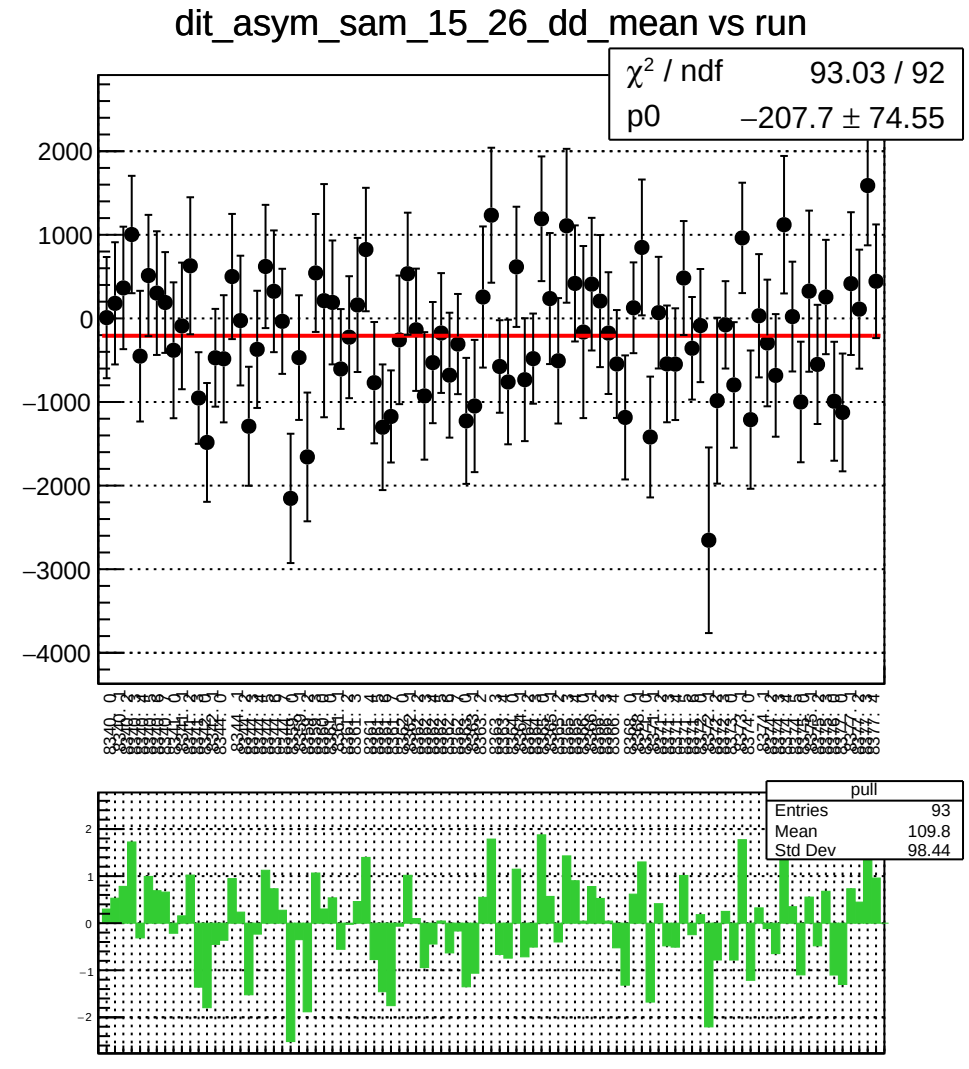

pull1D
Entries 93
Mean 0.01567
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

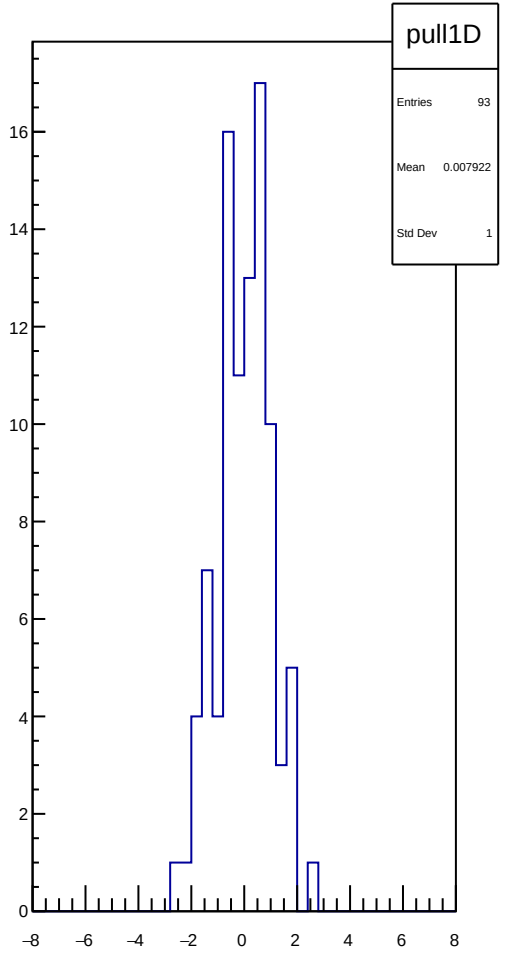

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.252e+04 / 92
p0 63.48 ± 0.04717
160
140
120
100
80
60

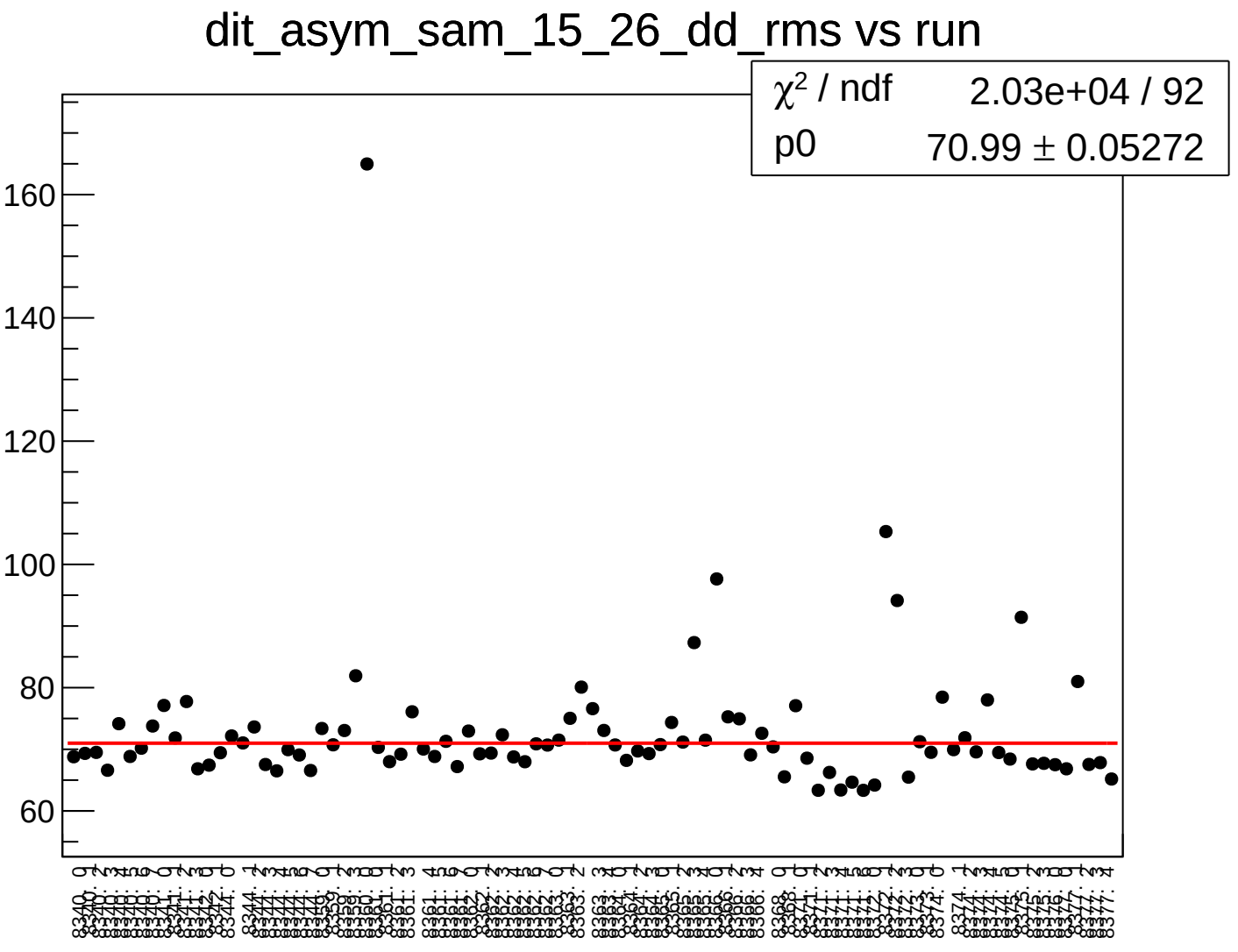

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.5 / 92
p0 112.7 ± 727.3
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −115.6
Std Dev 0
3
2
1
0
−1
−2

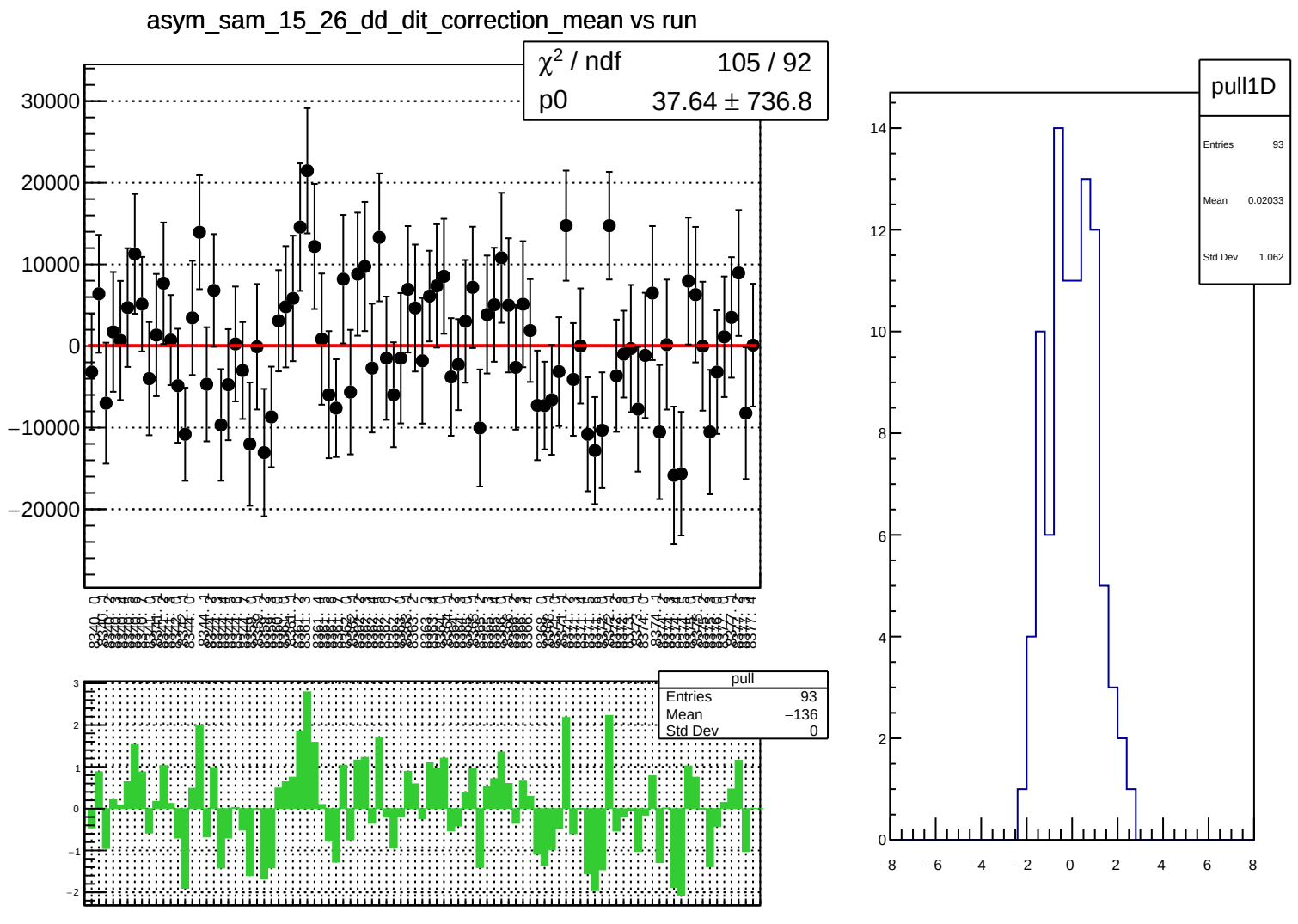

pull1D
Entries 93
Mean 0.02286
Std Dev 1.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

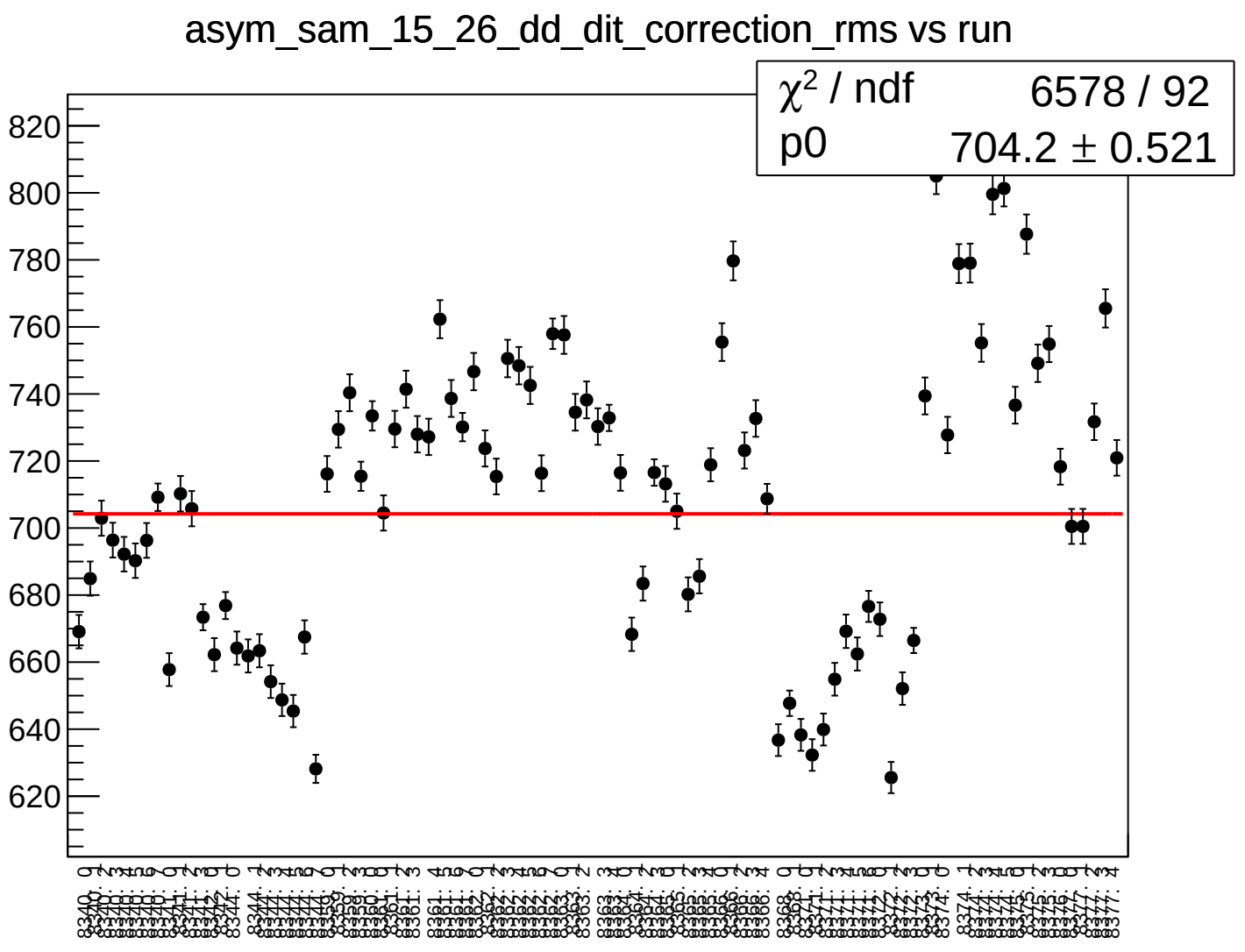

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5766 / 92
p0 695.3 ± 0.5143
800
750
700
650
600

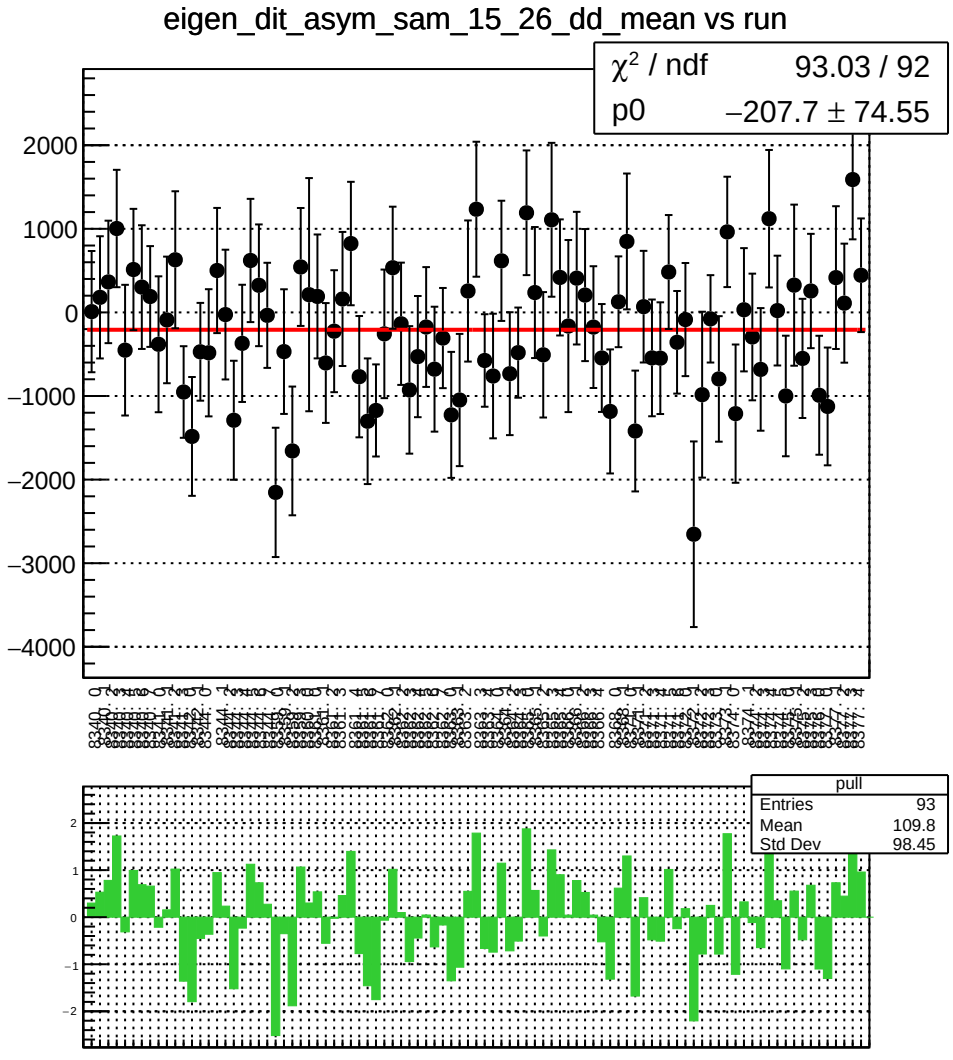

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.03 / 92
p0 −207.7 ± 74.55
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 109.8
Std Dev 98.44
2
1
0
−1
−2

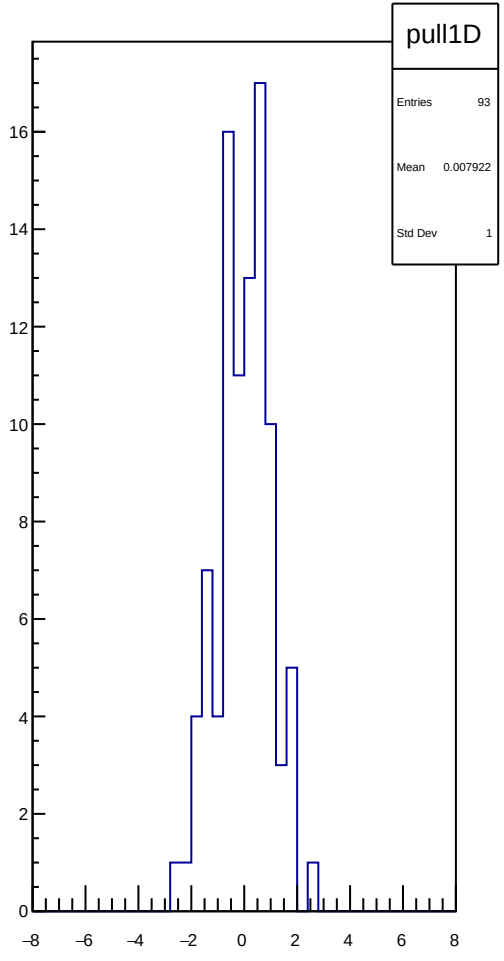

pull1D
Entries 93
Mean 0.007922
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

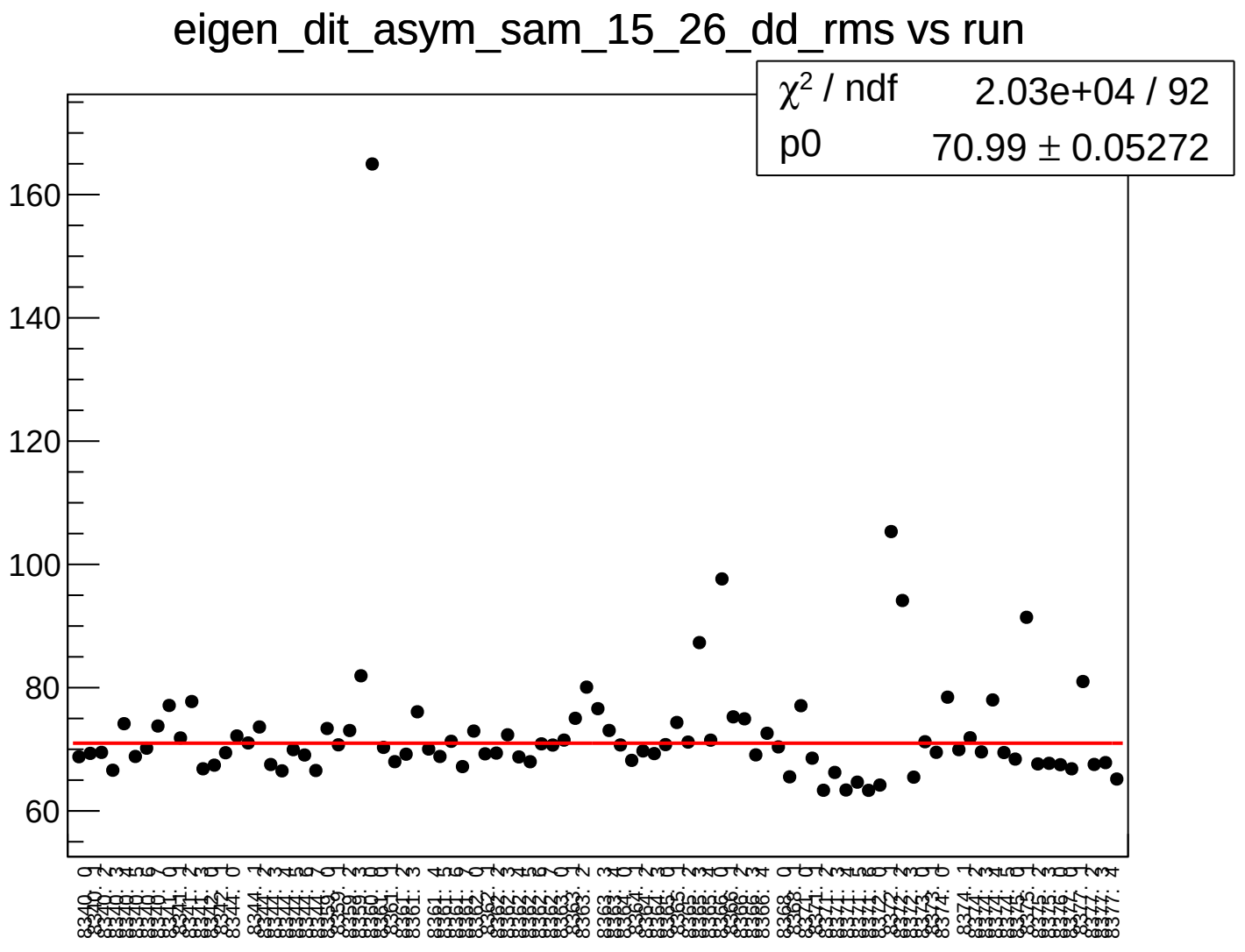

dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 2.03e+04 / 92
p0 70.99 ± 0.05272
160
140
120
100
80
60

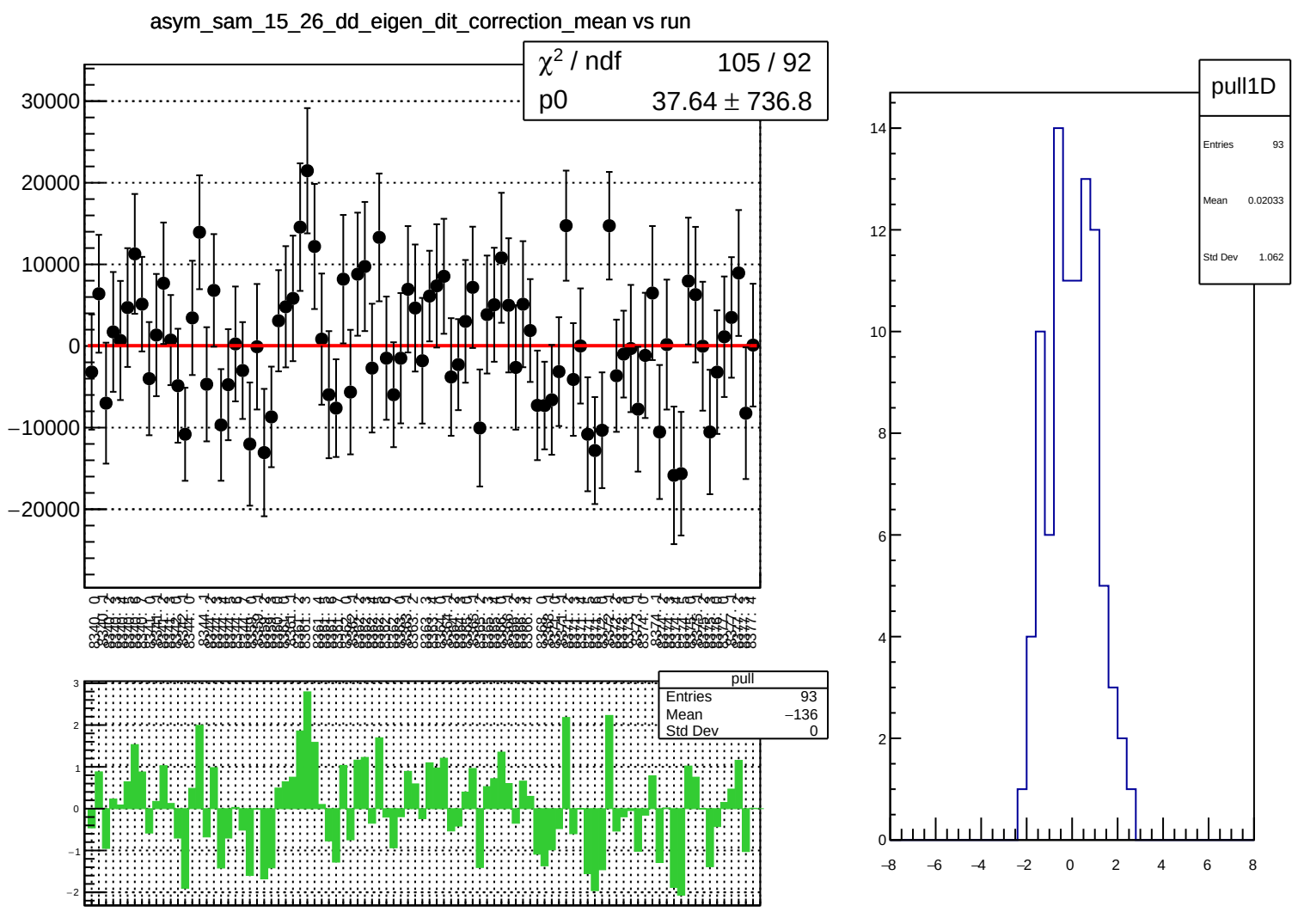

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 37.64 ± 736.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −136
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02033
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

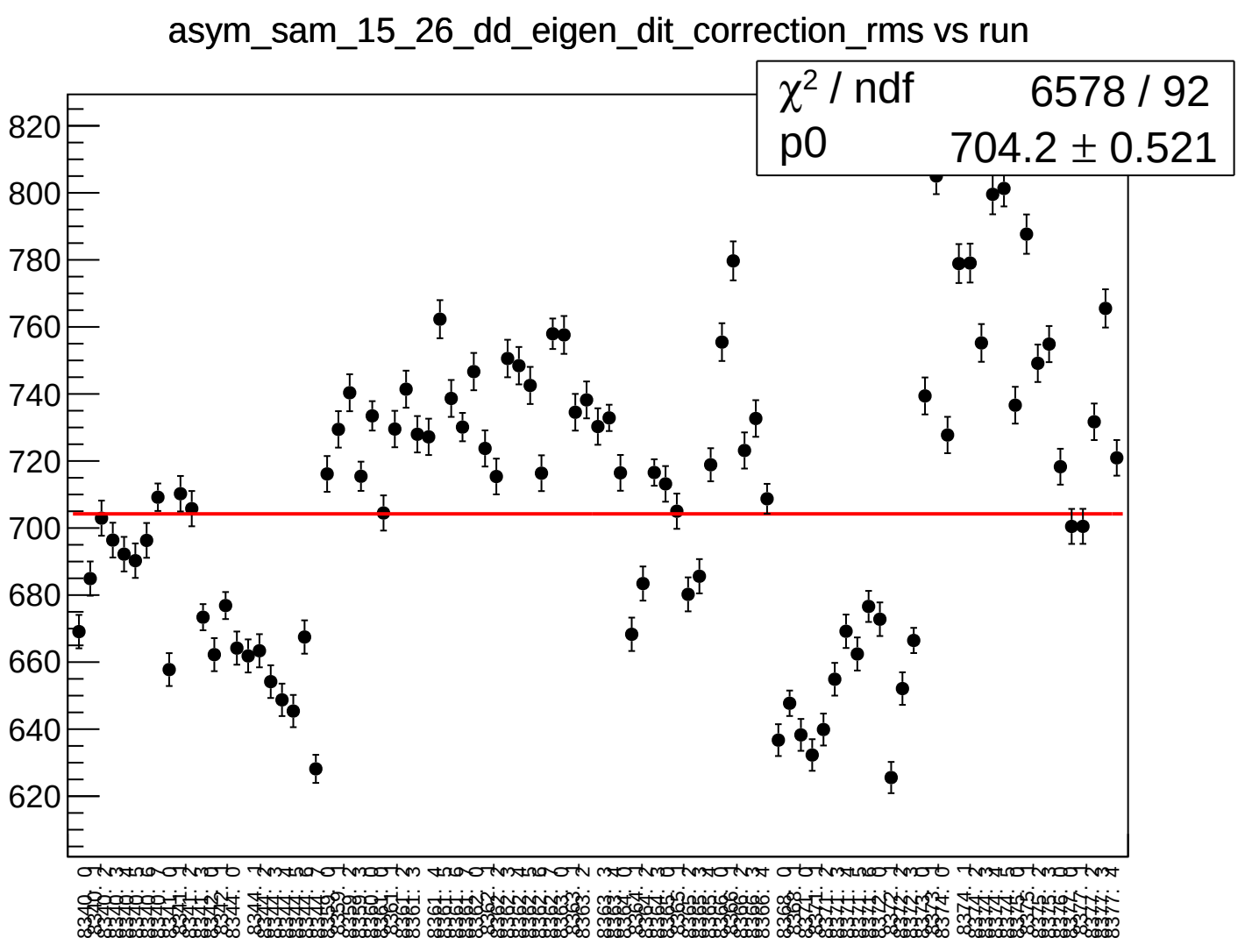

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6578 / 92
p0 704.2 ± 0.521
820
800
780
760
740
720
700
680
660
640
620

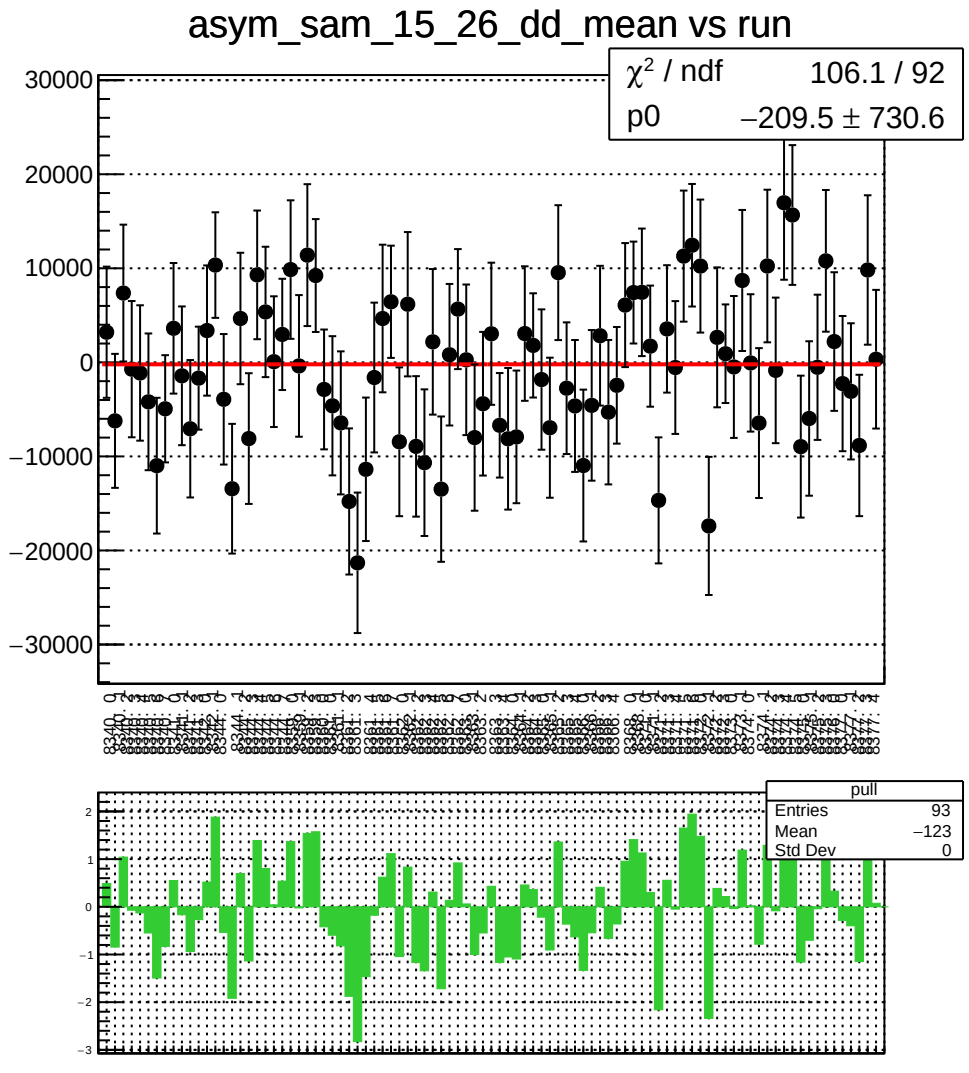

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.03 / 92
p0 −207.7 ± 74.55
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 109.8
Std Dev 98.45
2
1
0
−1
−2

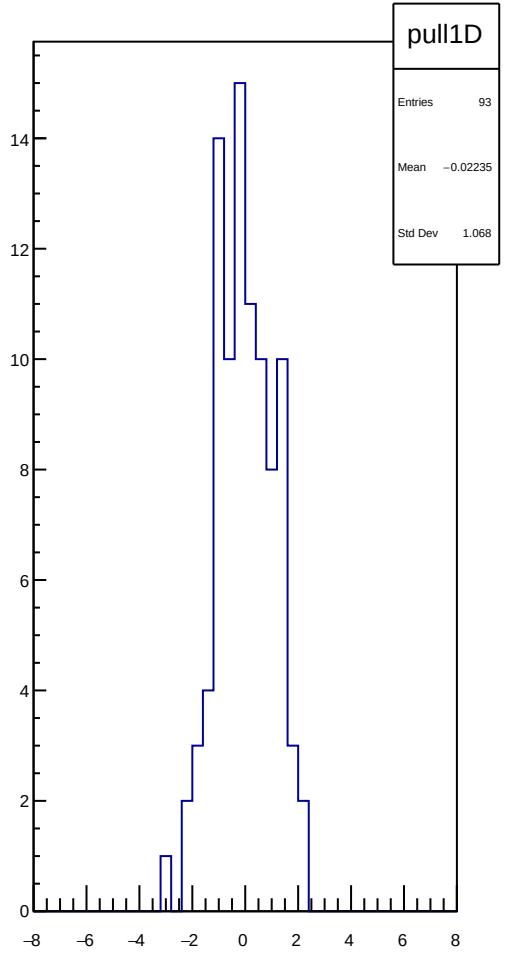

pull1D
Entries 93
Mean 0.007922
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

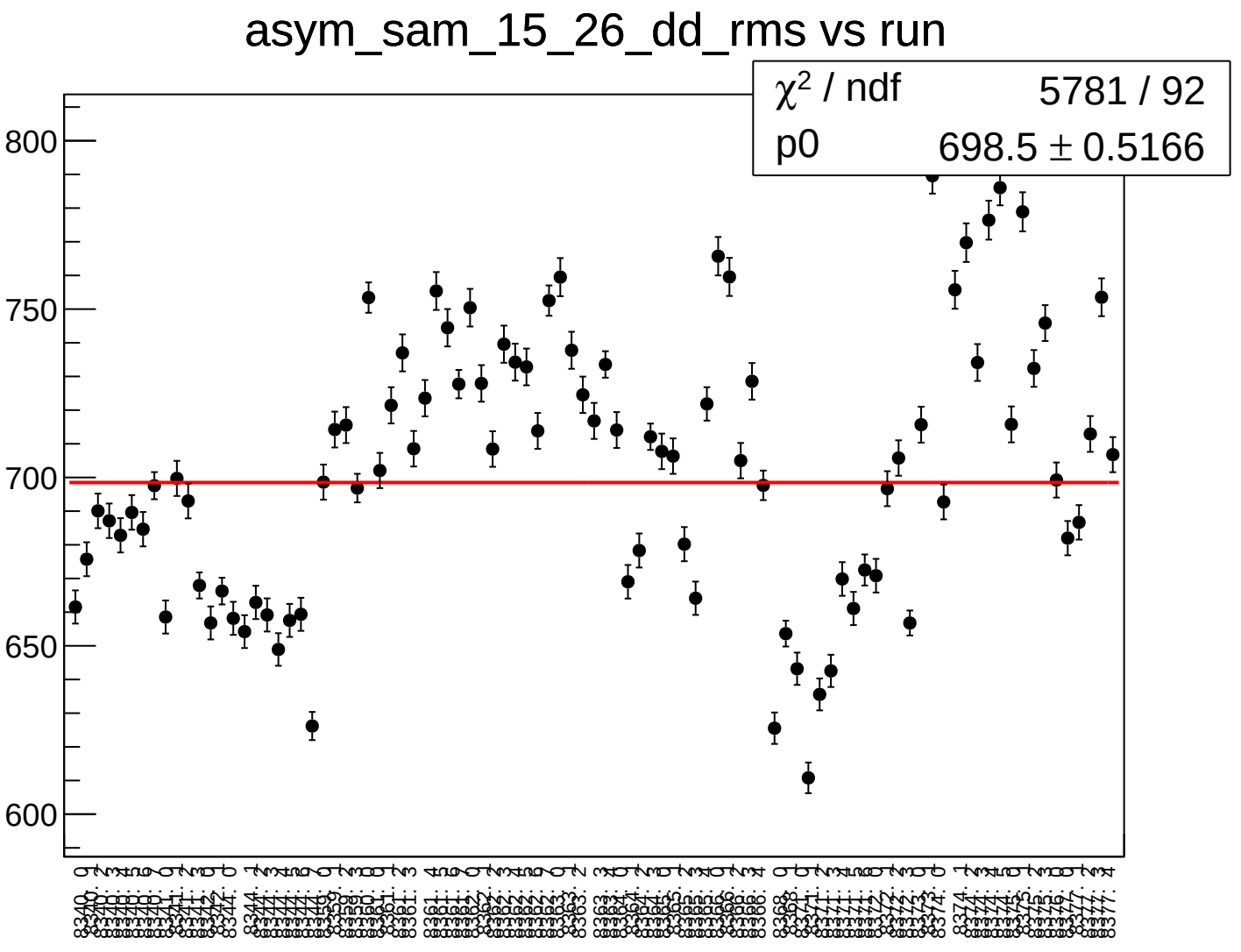

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.03e+04 / 92
p0 70.99 ± 0.05272
160
140
120
100
80
60

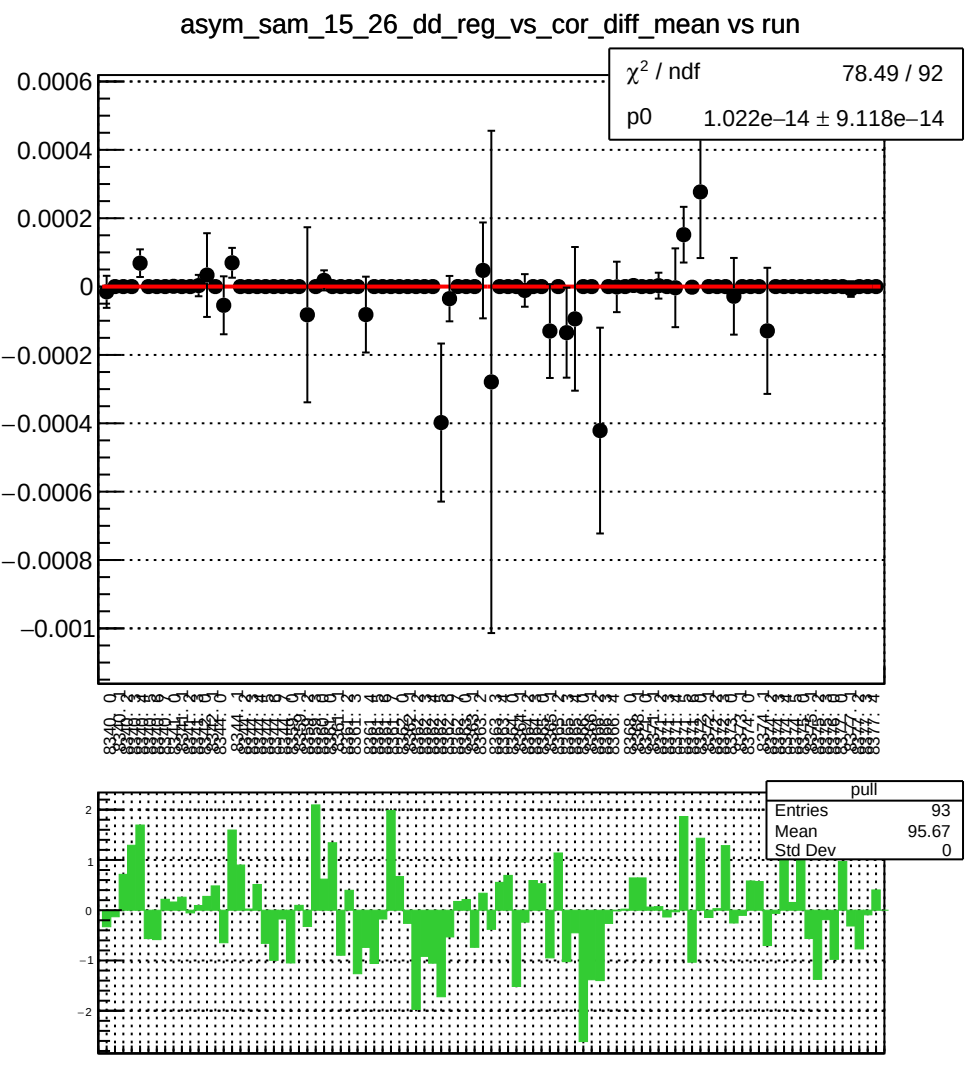

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 105 / 92
p0 37.64 ± 736.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −136
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02033
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

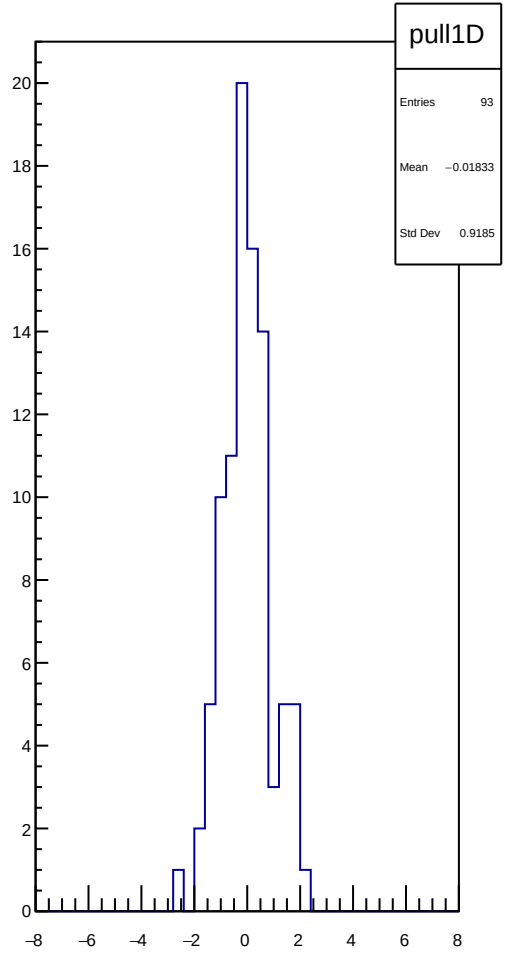

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6578 / 92
p0 704.2 ± 0.521
820
800
780
760
740
720
700
680
660
640
620

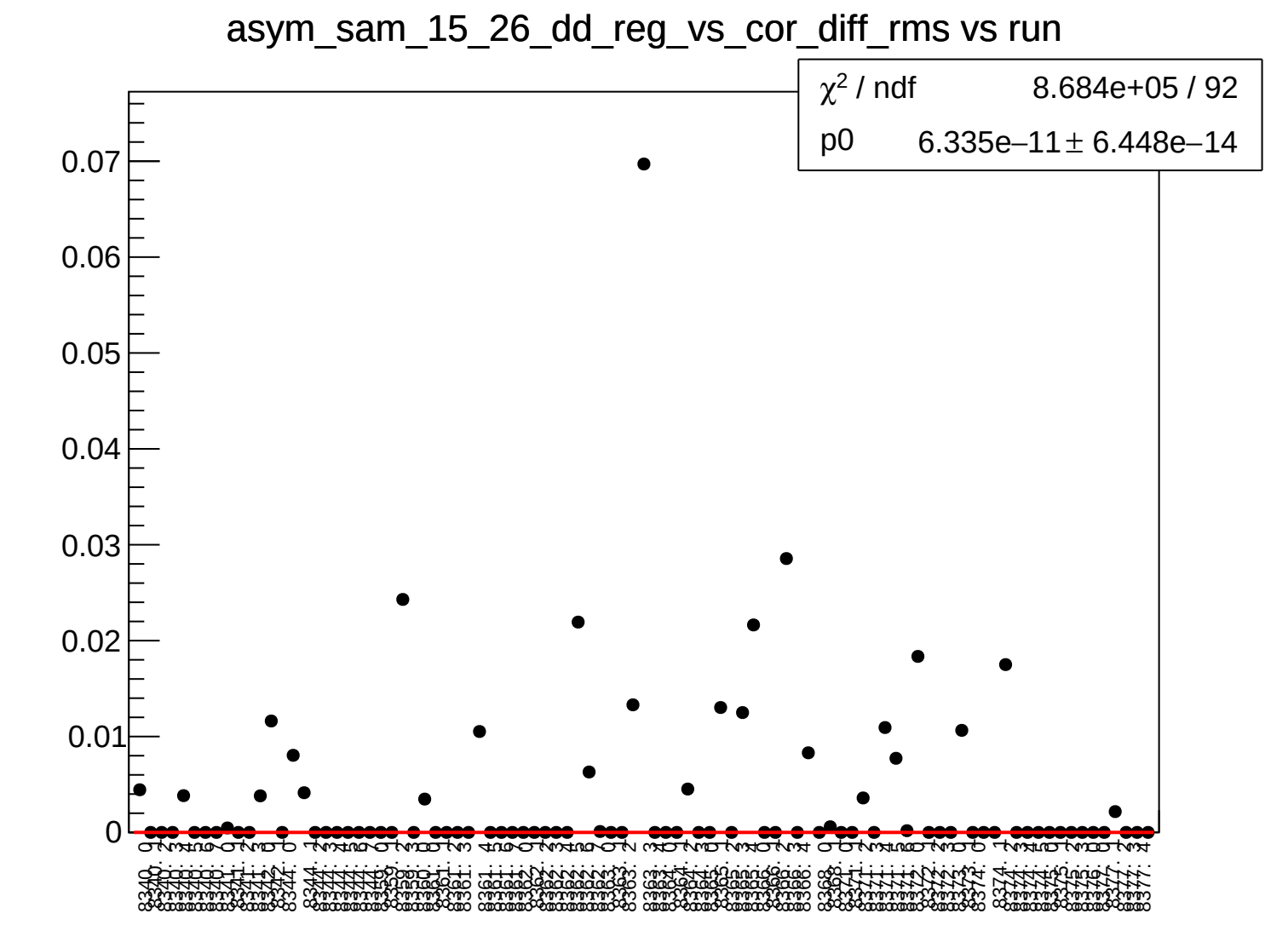

asym_sam_15_26_dd_mean vs run
χ² / ndf 106.1 / 92
p0 −209.5 ± 730.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −123
Std Dev 0
2
1
0
−1
−2
−3

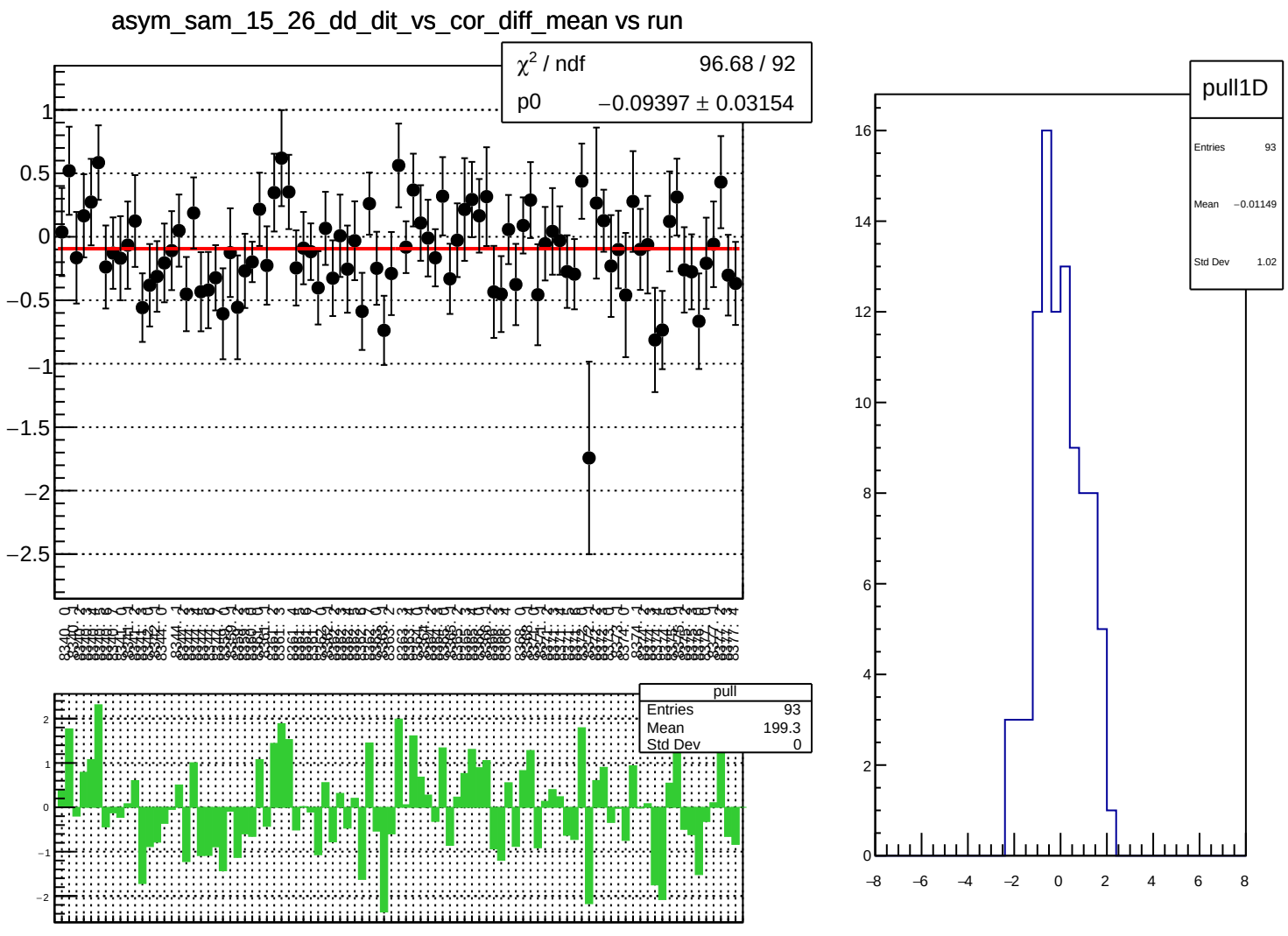

pull1D
Entries 93
Mean −0.02235
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

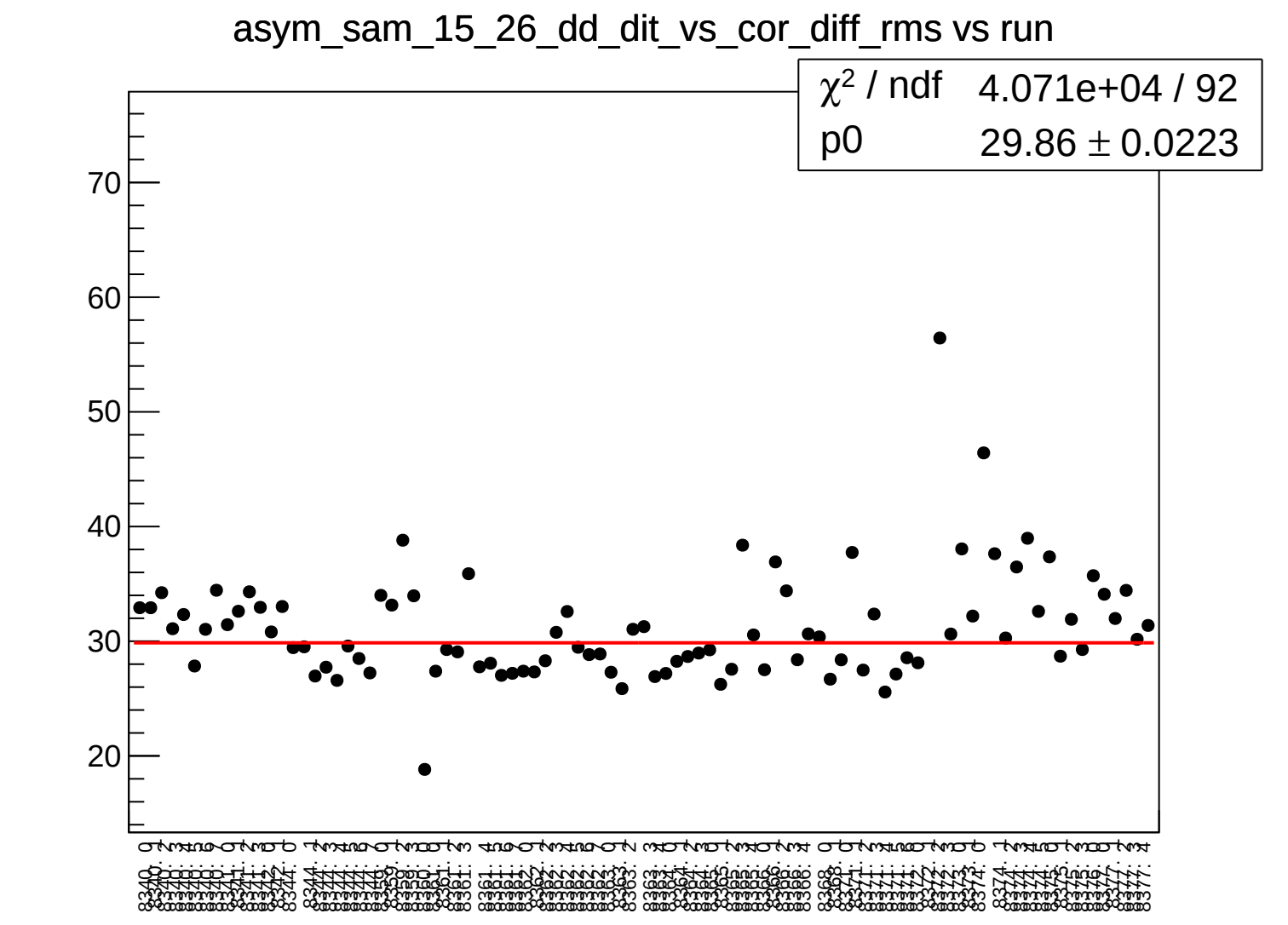

asym_sam_15_26_dd_rms vs run
χ² / ndf 5781 / 92
p0 698.5 ± 0.5166
800
750
700
650
600

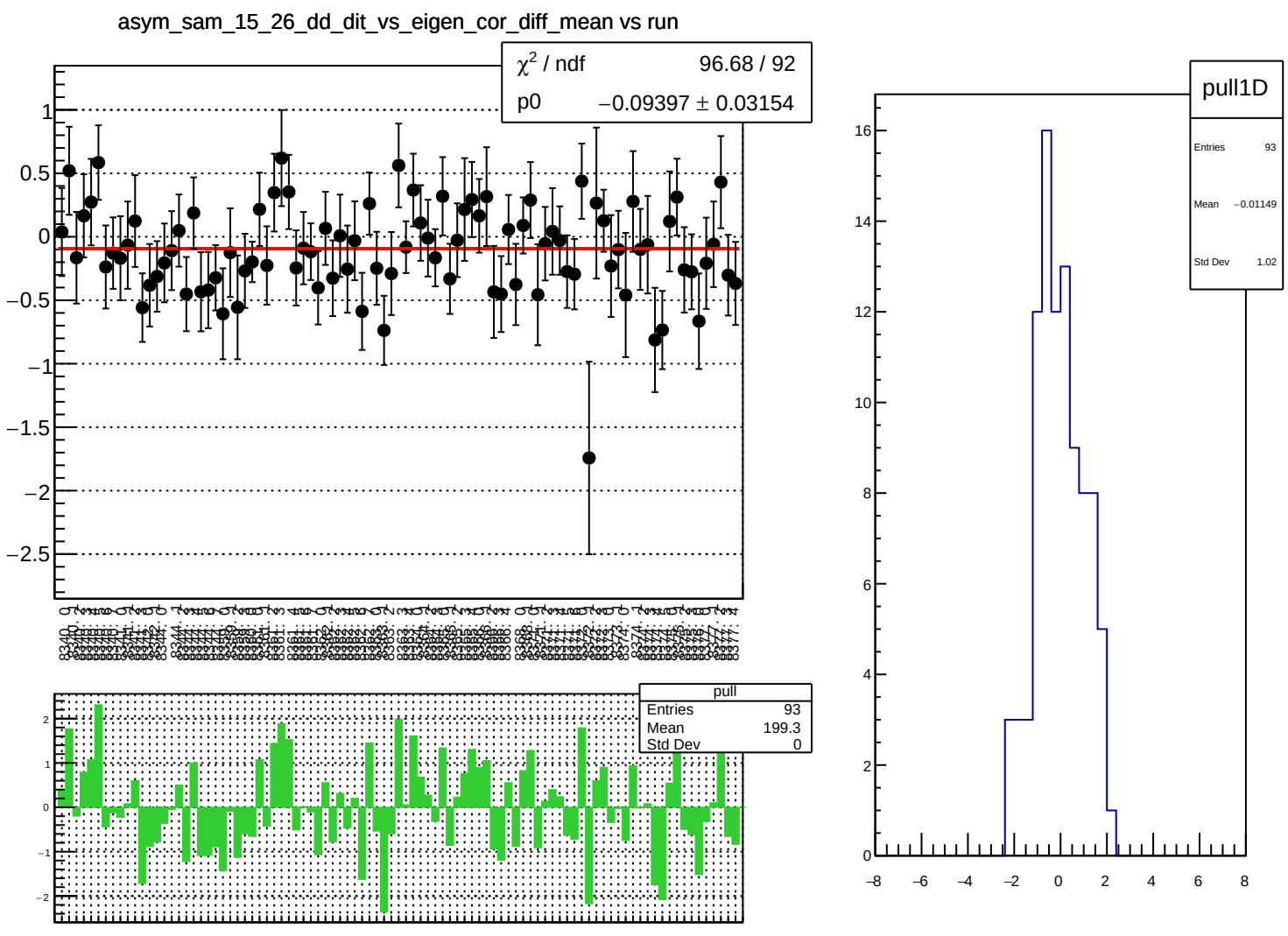

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.49 / 92
p0 1.022e−14 ± 9.118e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 93
Mean 95.67
Std Dev 0
2
1
0
−1
−2

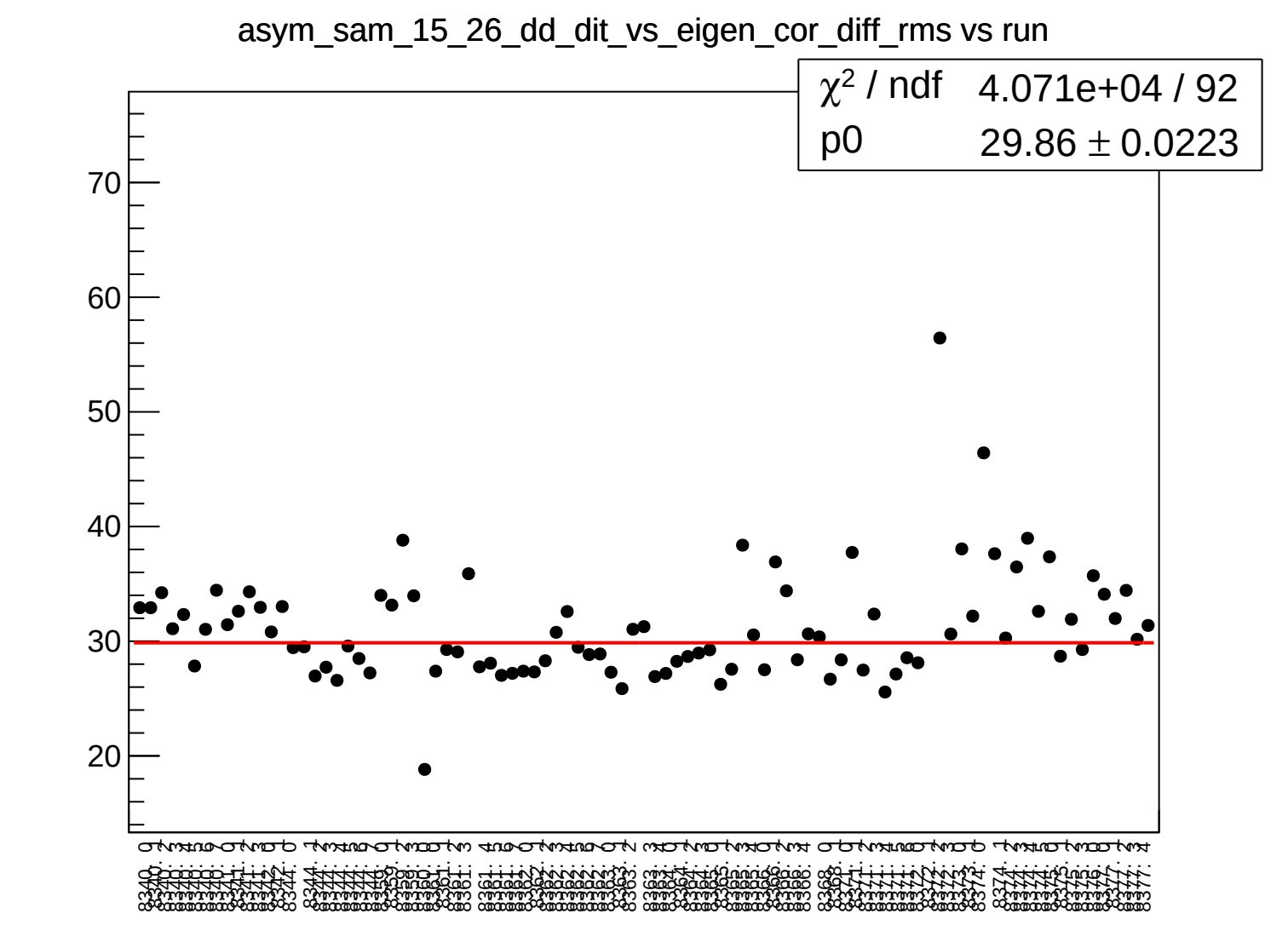

pull1D
Entries 93
Mean −0.01833
Std Dev 0.9185
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

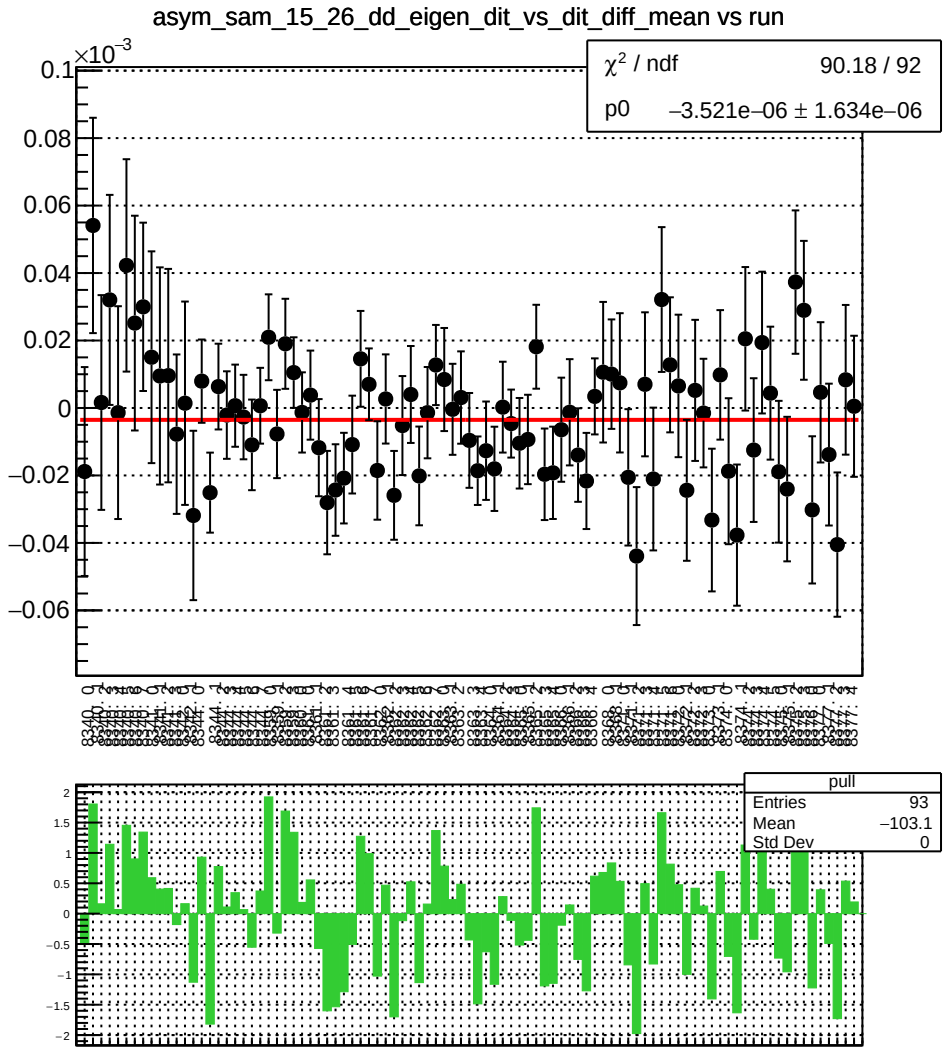

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.684e+05 / 92
p0 6.335e−11 ± 6.448e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

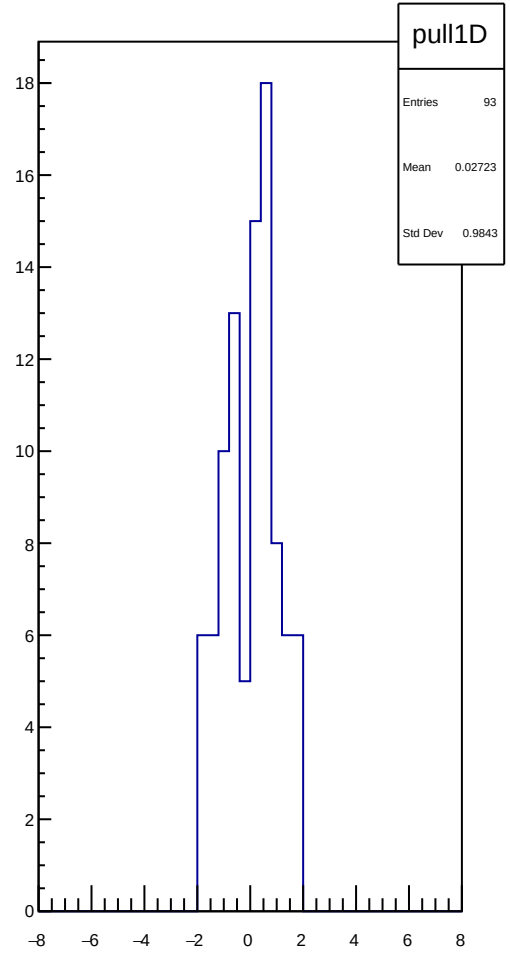

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 −0.09397 ± 0.03154
pull
Entries 93
Mean 199.3
Std Dev 0
pull1D
Entries 93
Mean −0.01149
Std Dev 1.02

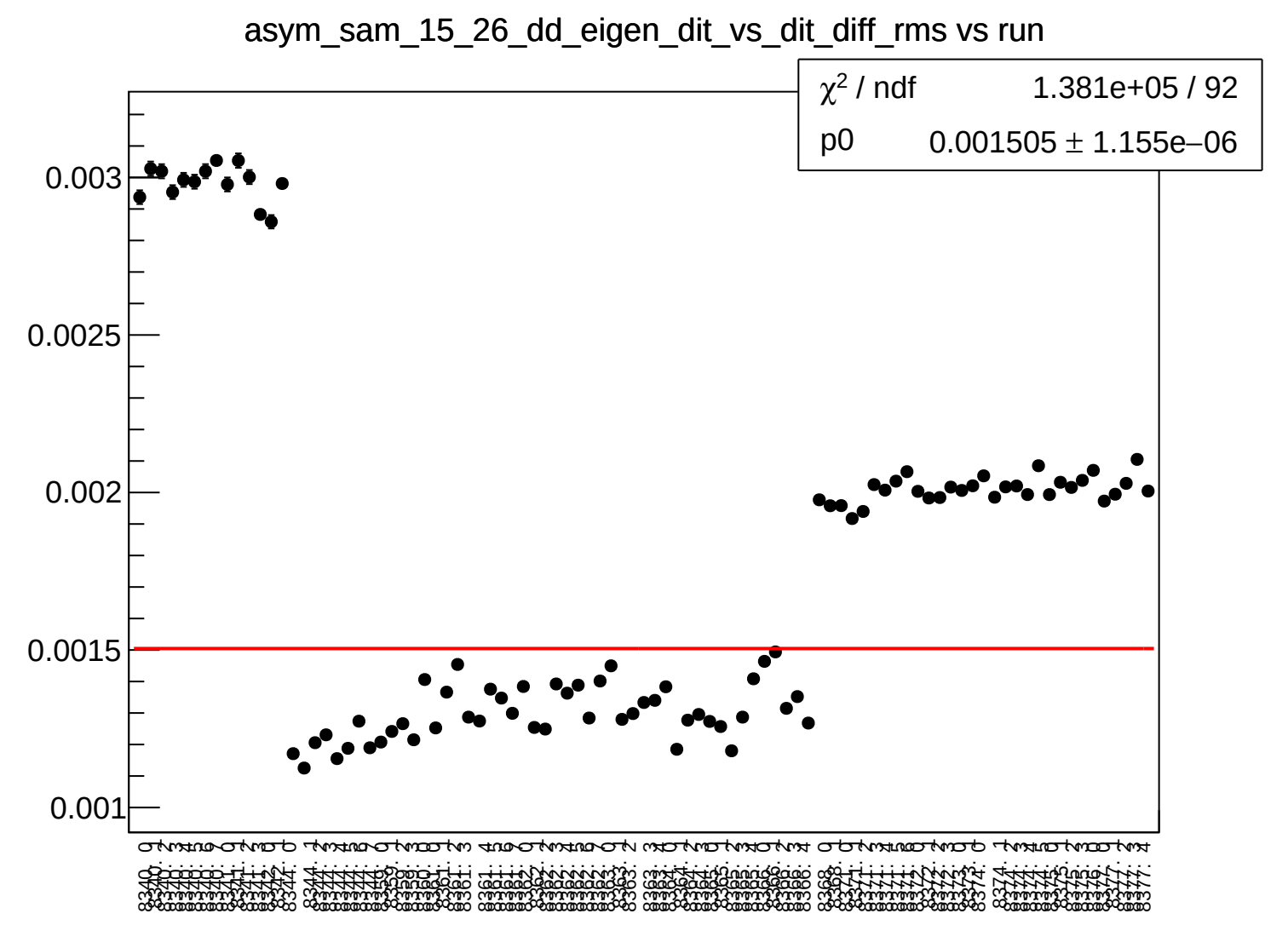

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 92
p0 29.86 ± 0.0223
70
60
50
40
30
20

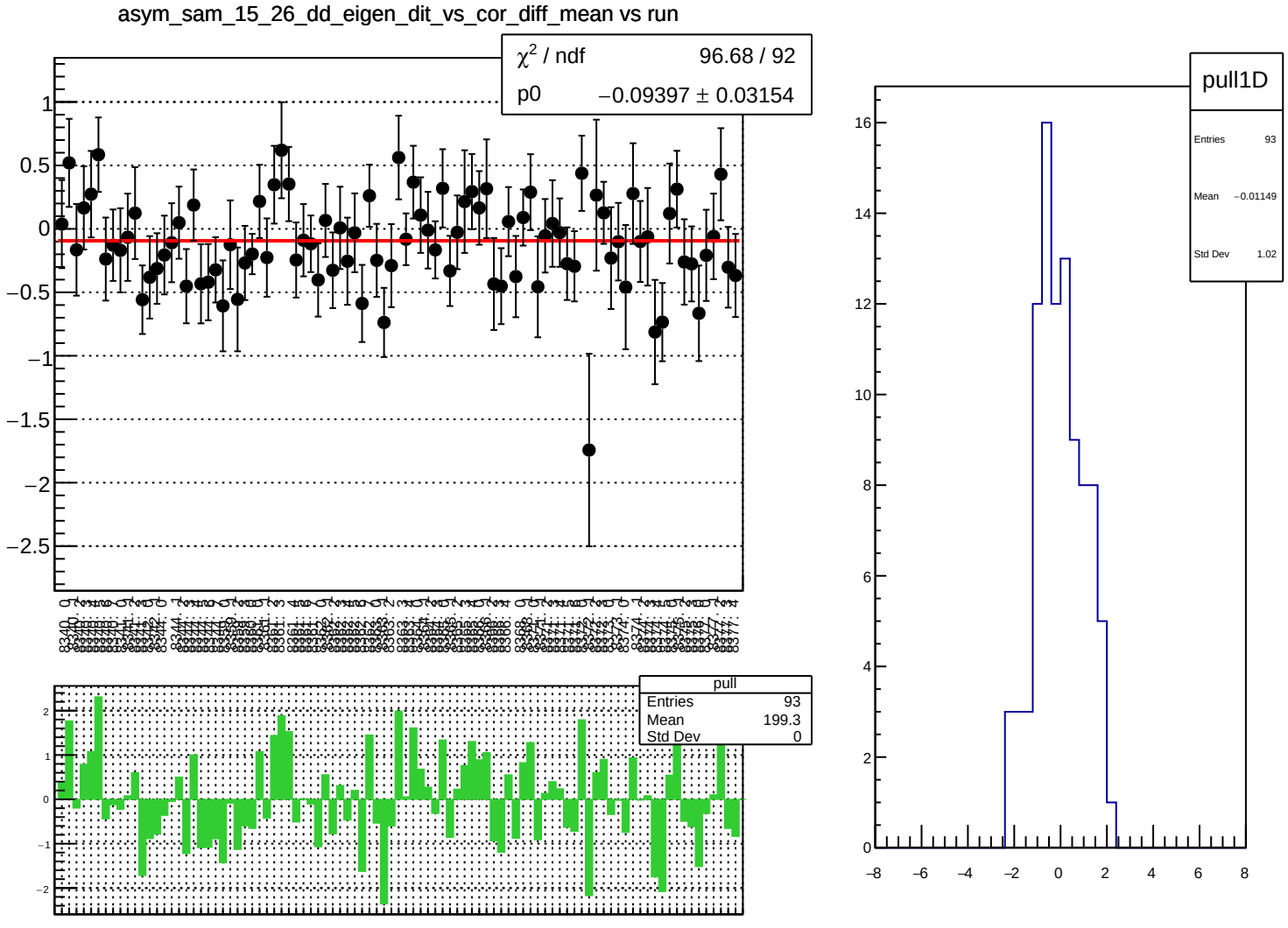

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 −0.09397 ± 0.03154
pull
Entries 93
Mean 199.3
Std Dev 0
pull1D
Entries 93
Mean −0.01149
Std Dev 1.02

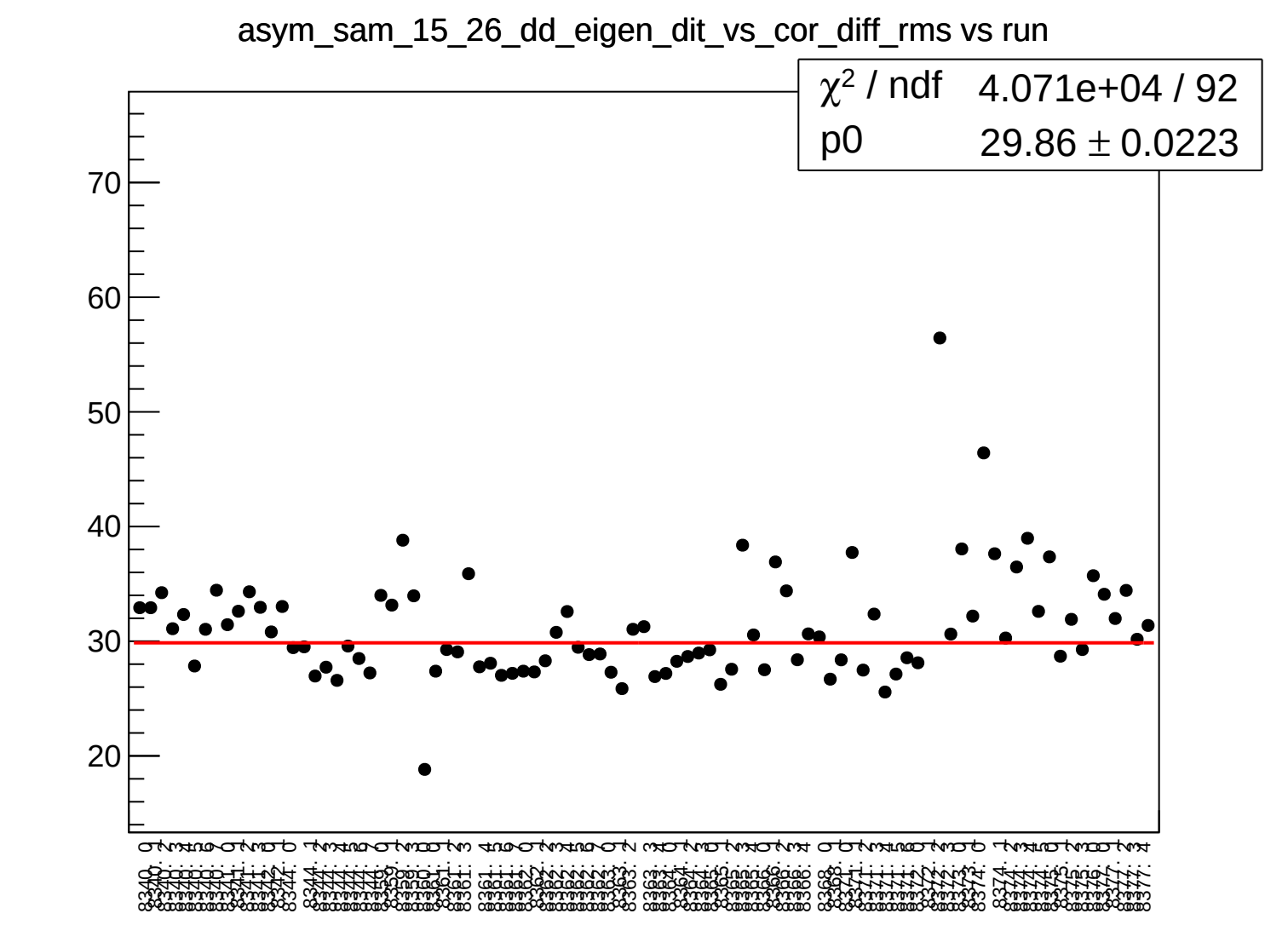

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 92
p0 29.86 ± 0.0223
70
60
50
40
30
20

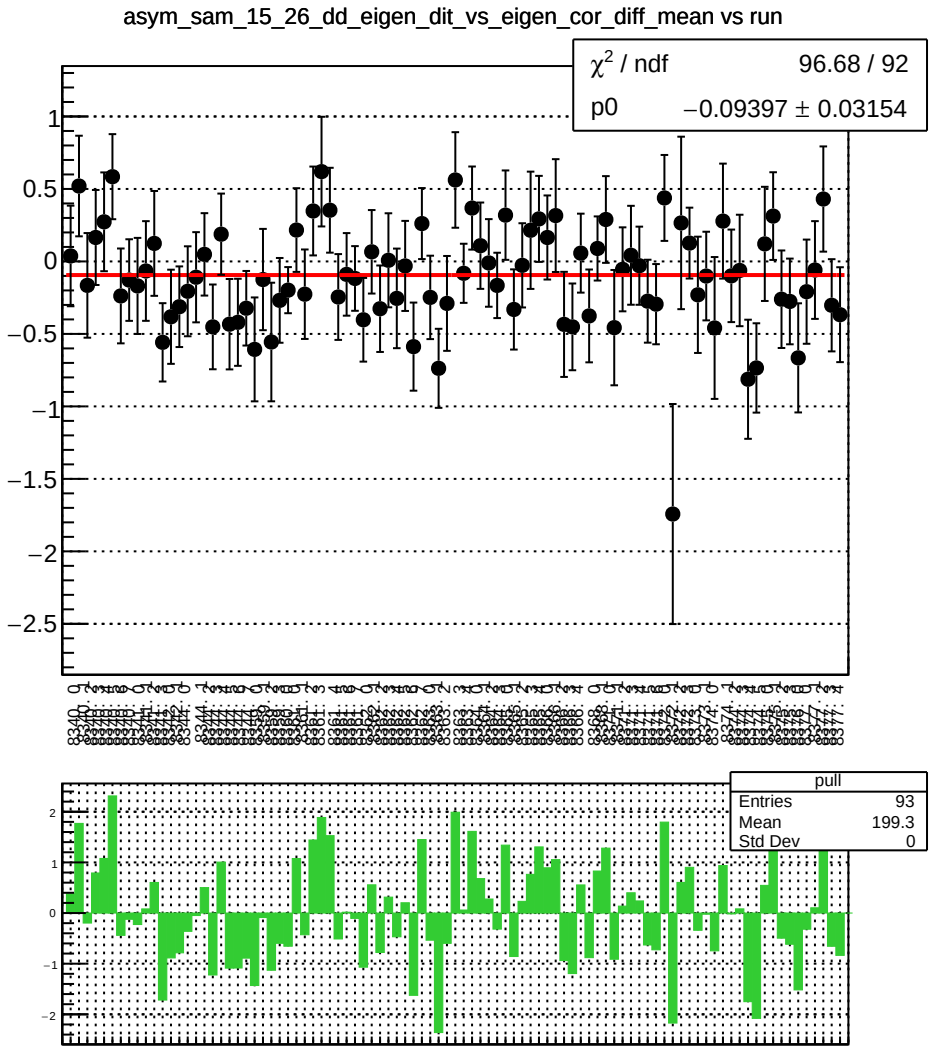

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.18 / 92
p0 −3.521e−06 ± 1.634e−06
×10⁻³
pull
Entries 93
Mean −103.1
Std Dev 0

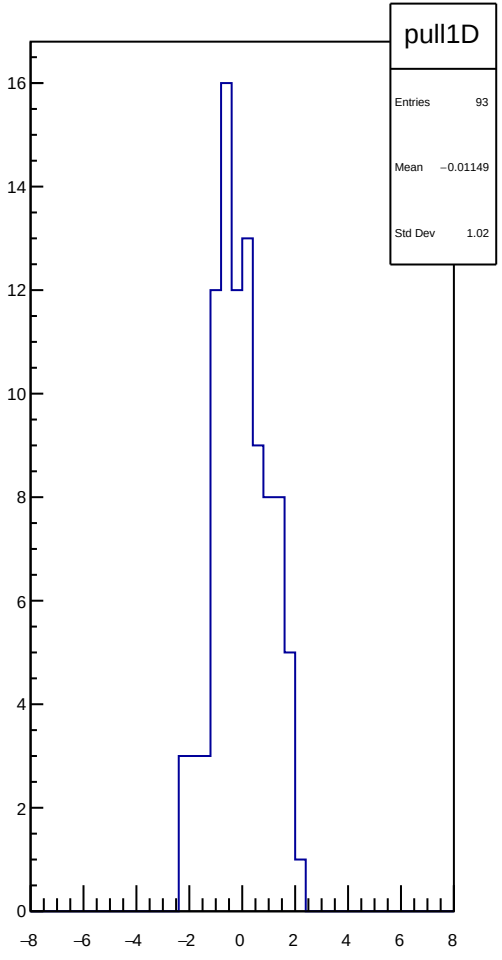

pull1D
Entries 93
Mean 0.02723
Std Dev 0.9843

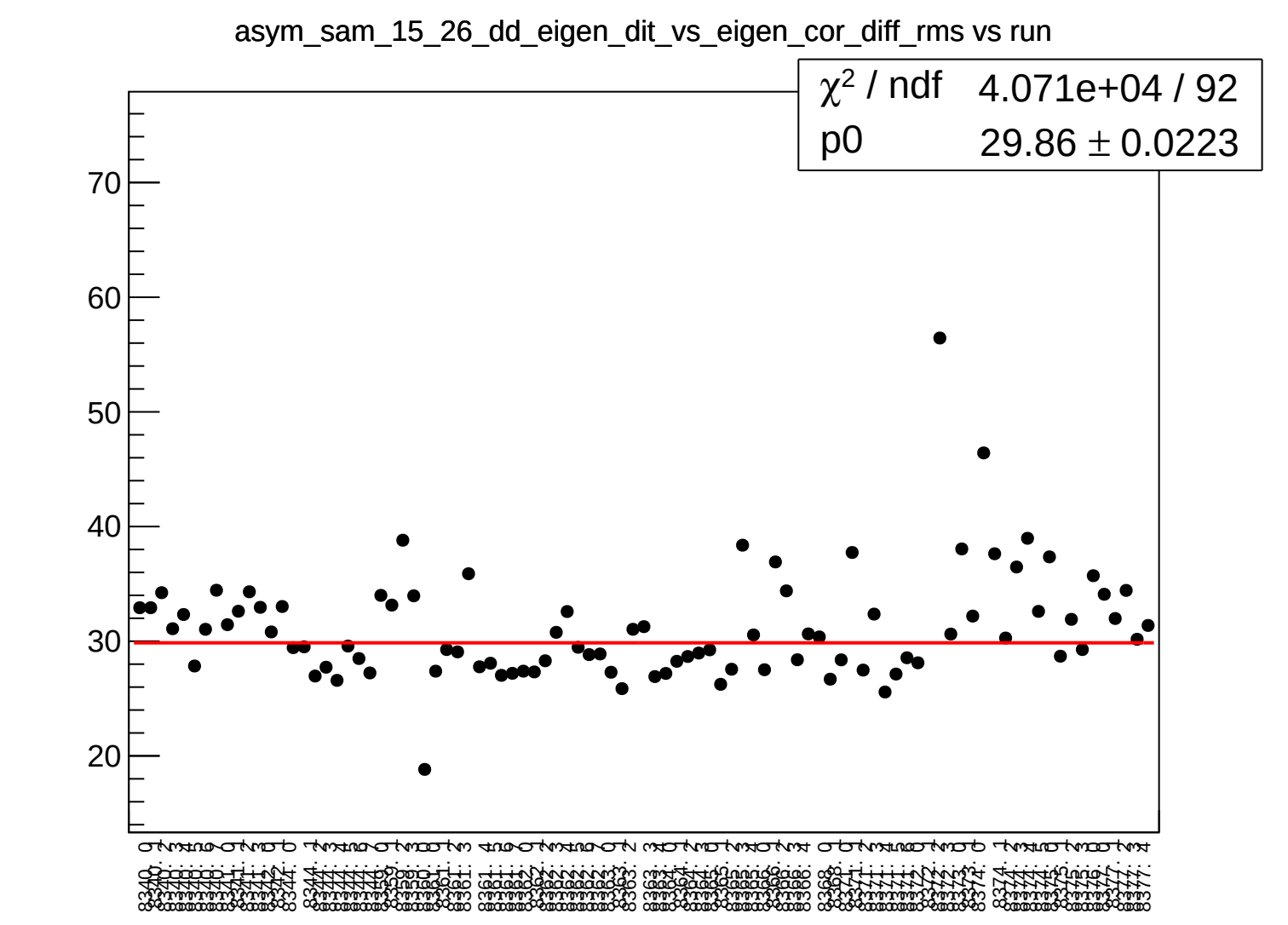

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.381e+05 / 92
p0 0.001505 ± 1.155e−06
0.003
0.0025
0.002
0.0015
0.001

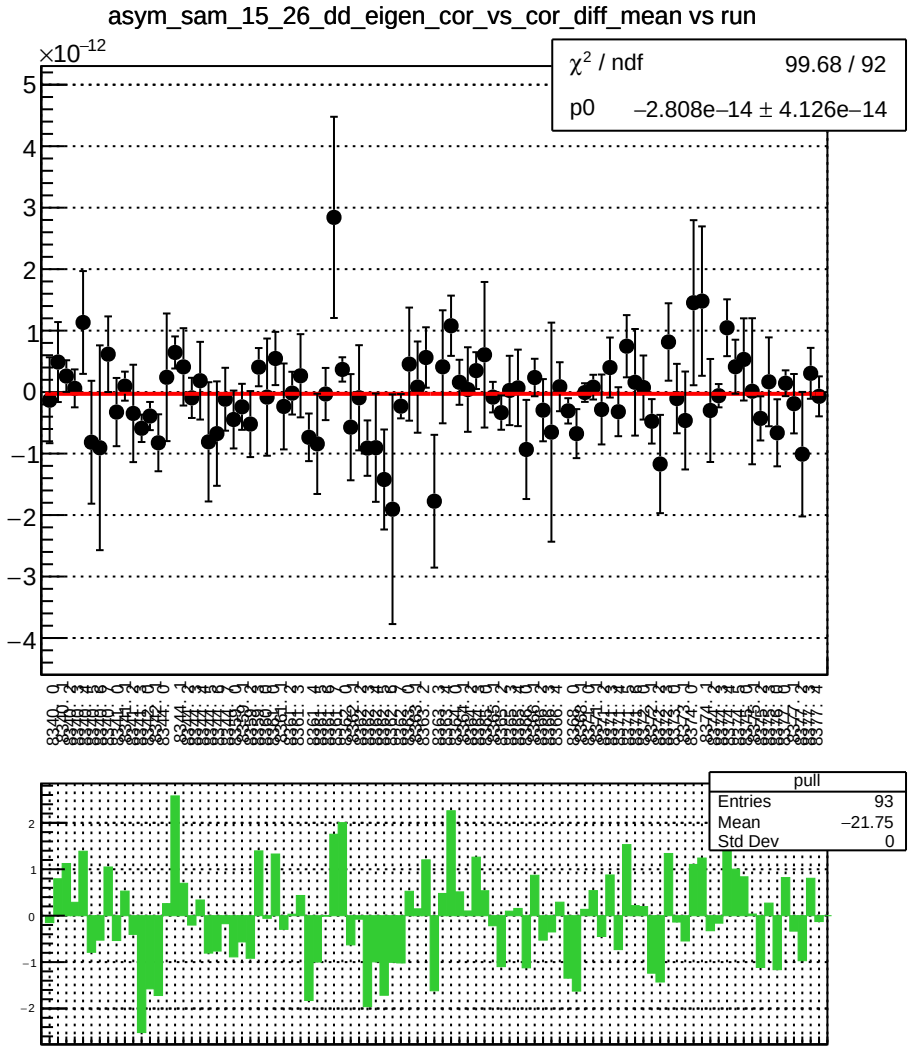

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 −0.09397 ± 0.03154
pull
Entries 93
Mean 199.3
Std Dev 0
pull1D
Entries 93
Mean −0.01149
Std Dev 1.02

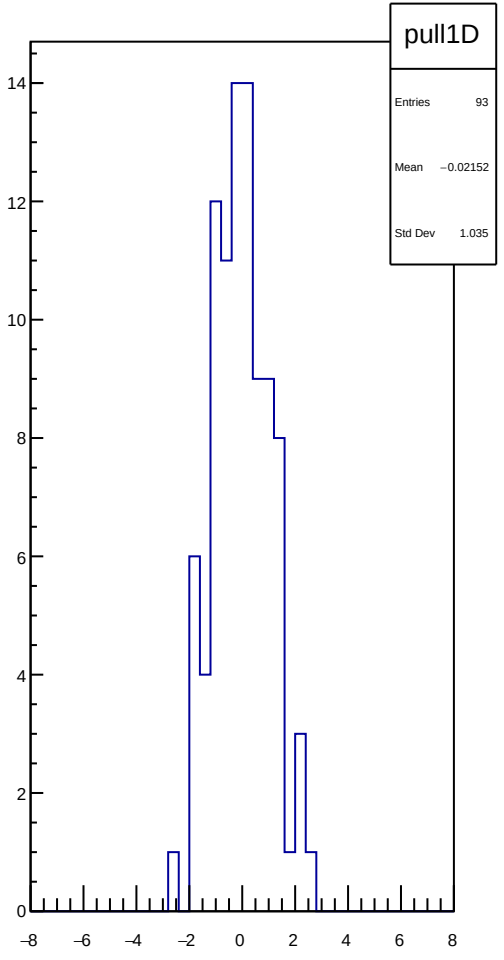

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 92
p0 29.86 ± 0.0223
70
60
50
40
30
20

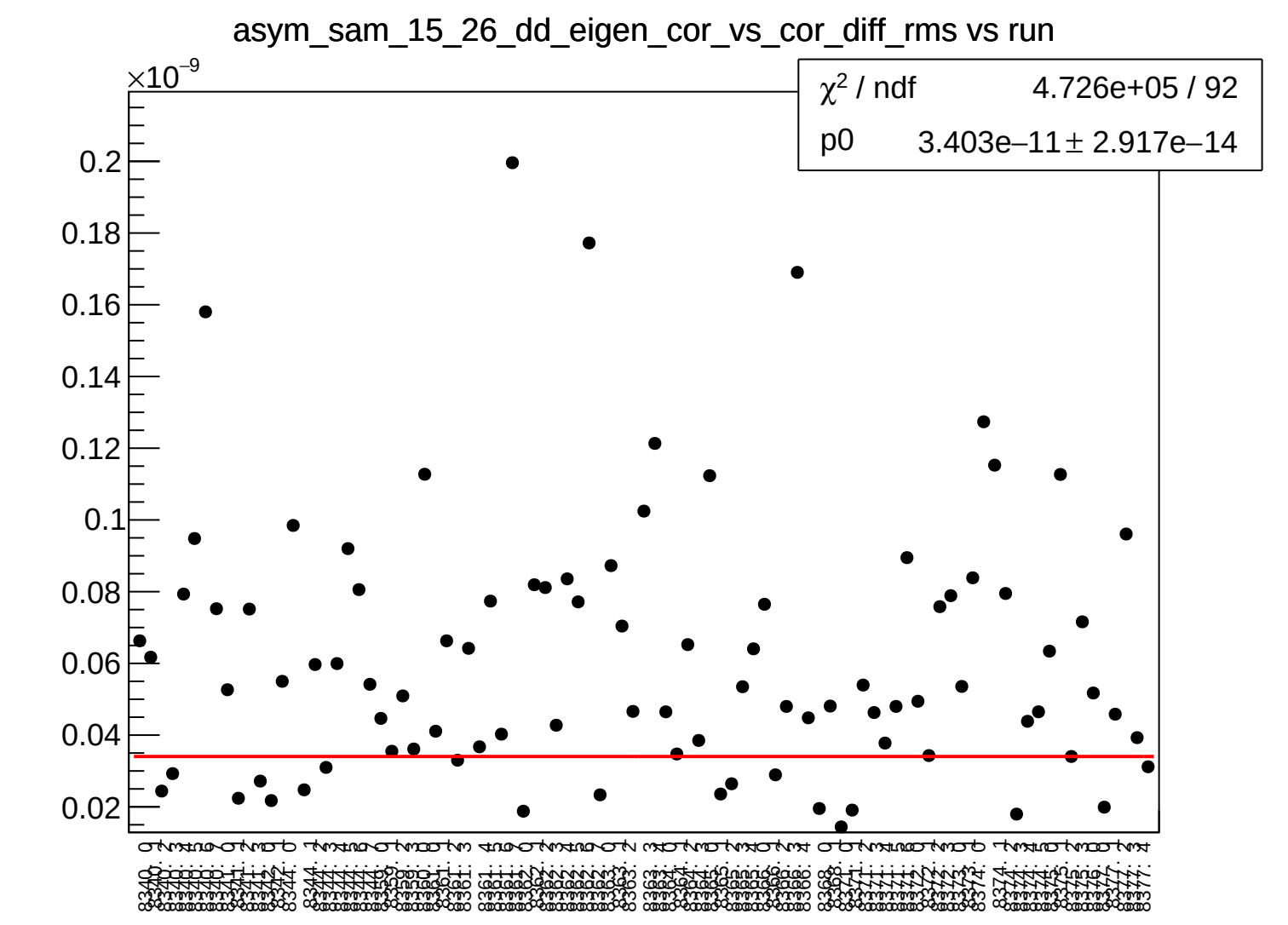

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.68 / 92
p0 −0.09397 ± 0.03154
pull
Entries 93
Mean 199.3
Std Dev 0

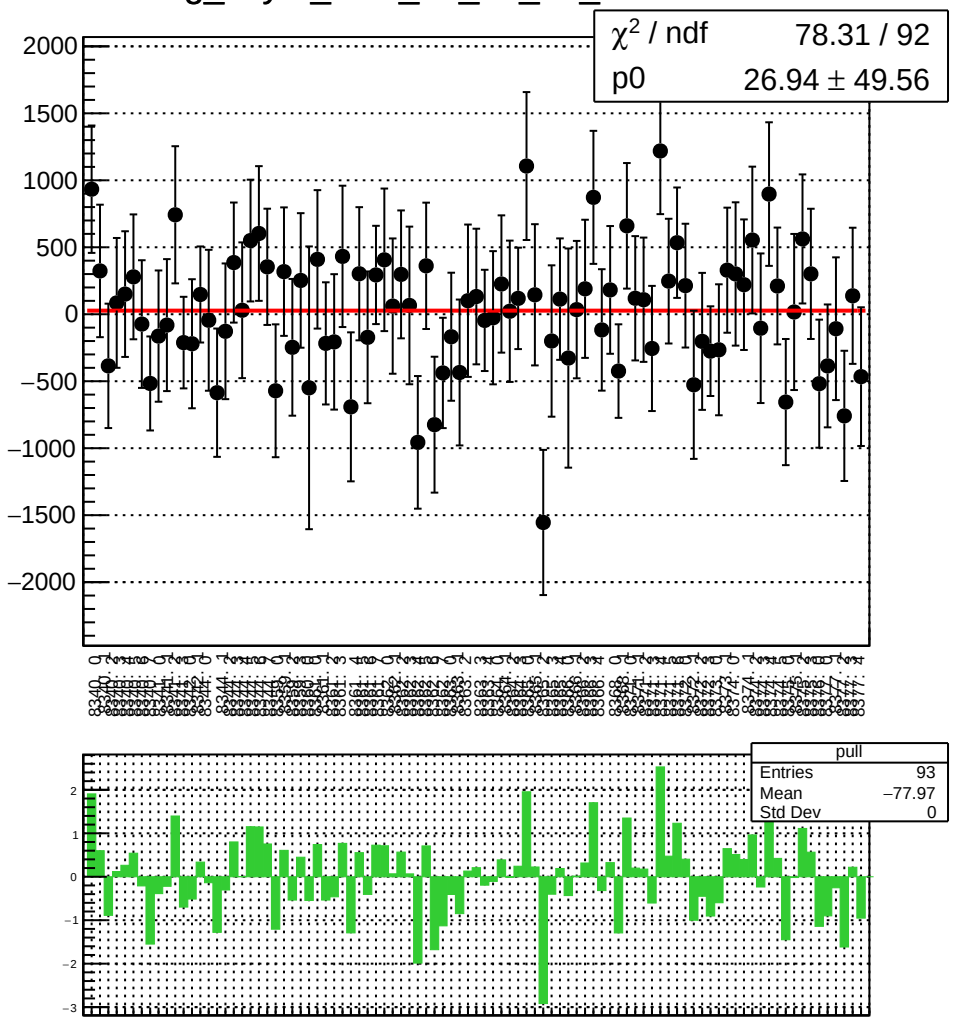

pull1D
Entries 93
Mean −0.01149
Std Dev 1.02

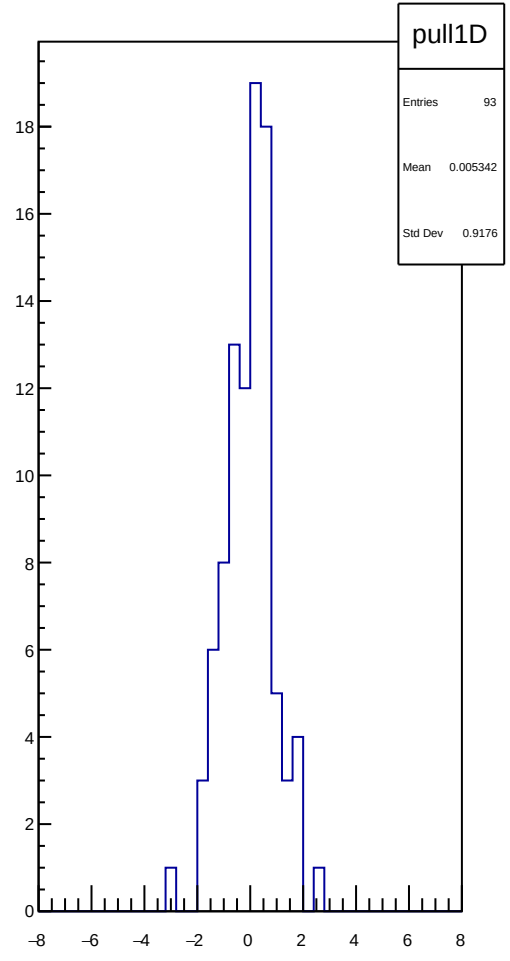

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.071e+04 / 92
p0 29.86 ± 0.0223
70
60
50
40
30
20

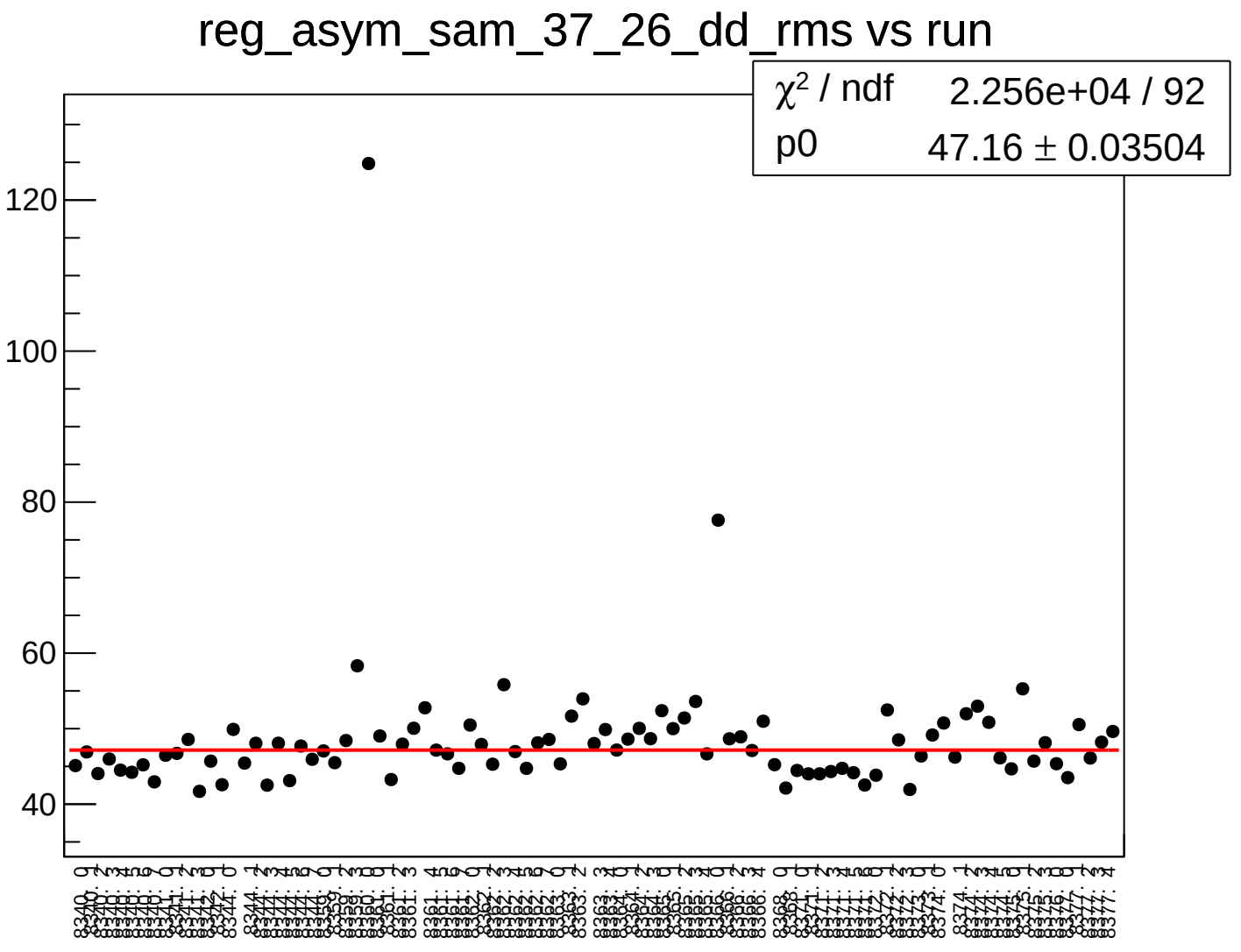

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.68 / 92
p0 −2.808e−14 ± 4.126e−14
pull
Entries 93
Mean −21.75
Std Dev 0

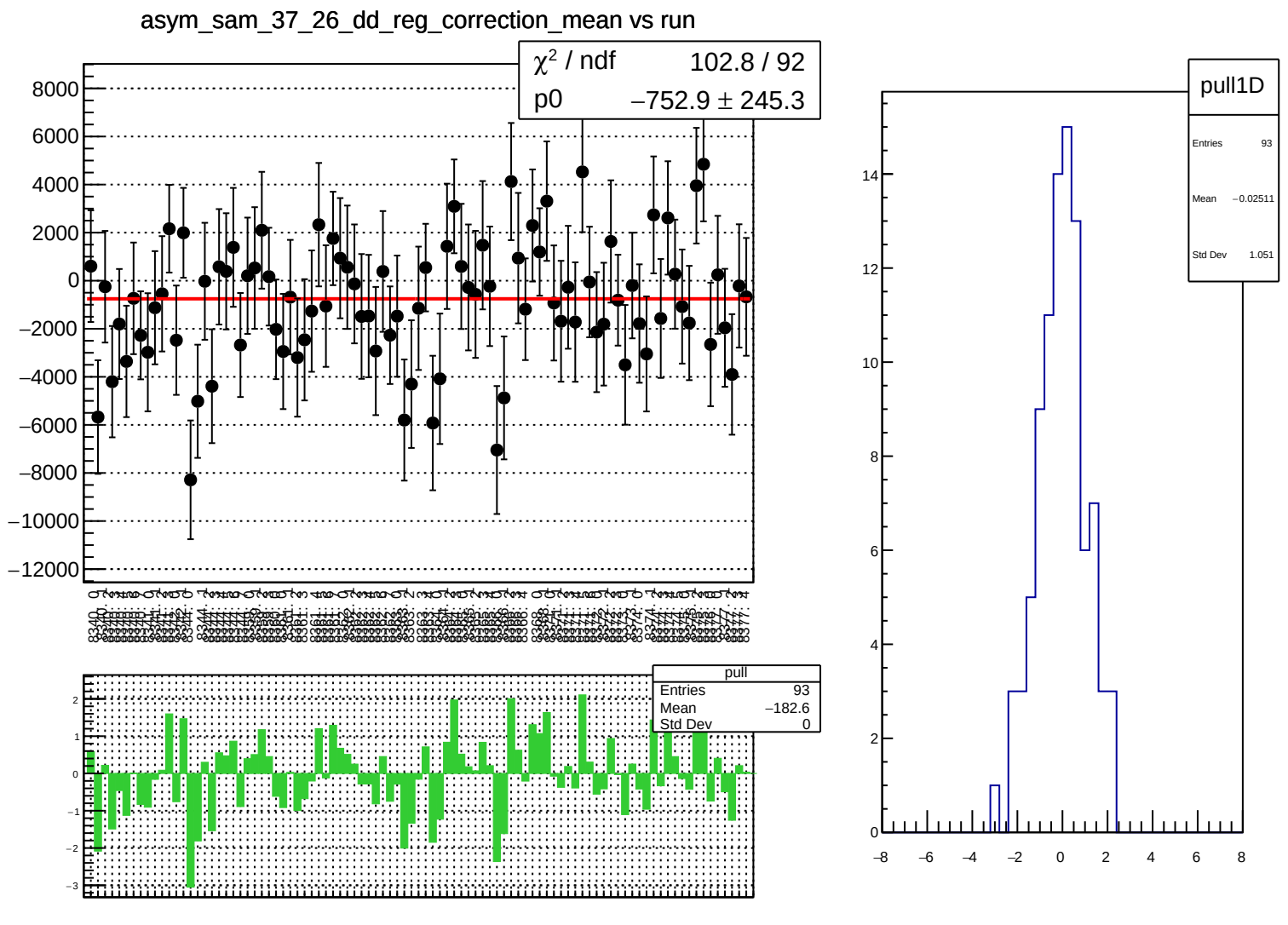

pull1D
Entries 93
Mean −0.02152
Std Dev 1.035

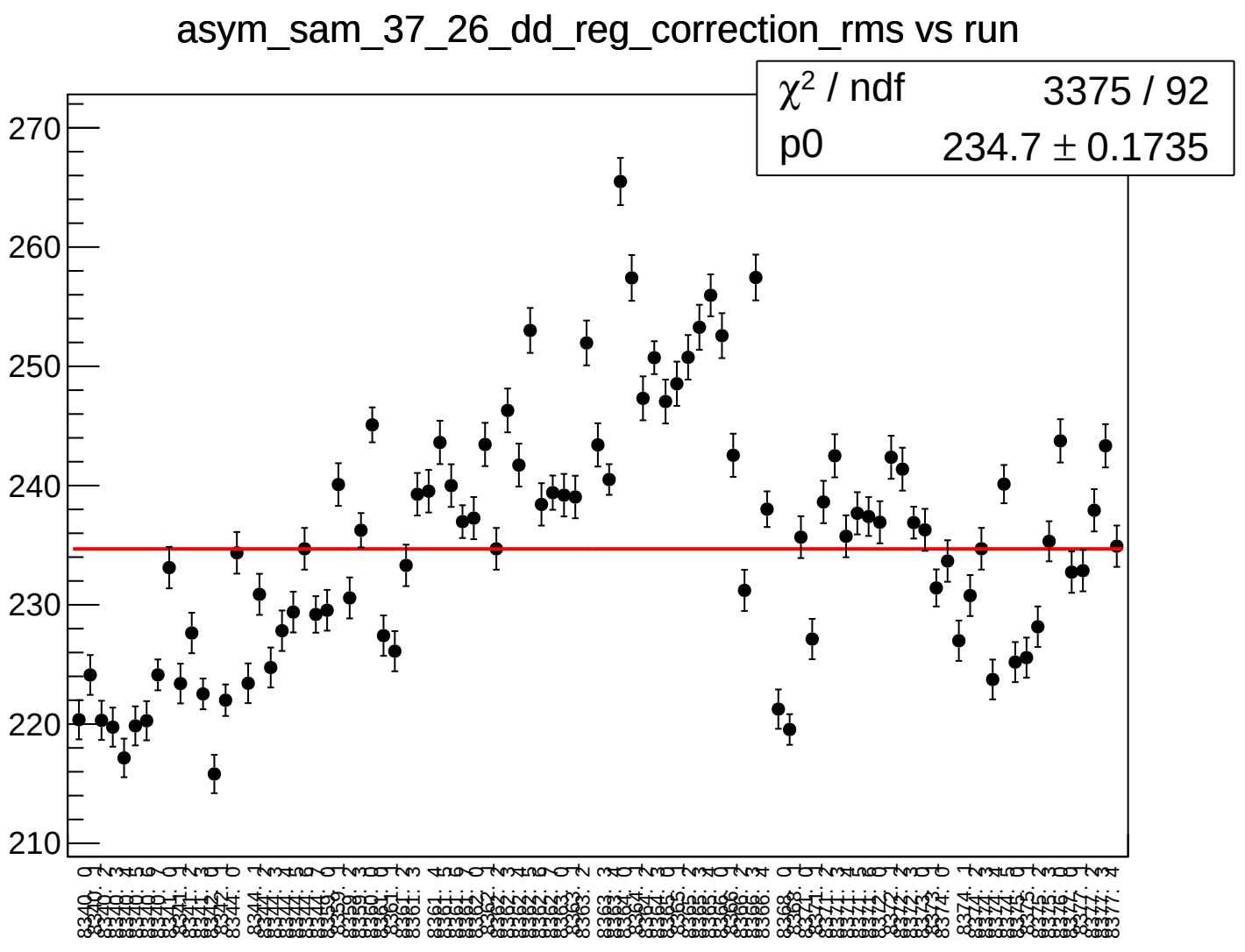

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.726e+05 / 92
p0 3.403e−11 ± 2.917e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

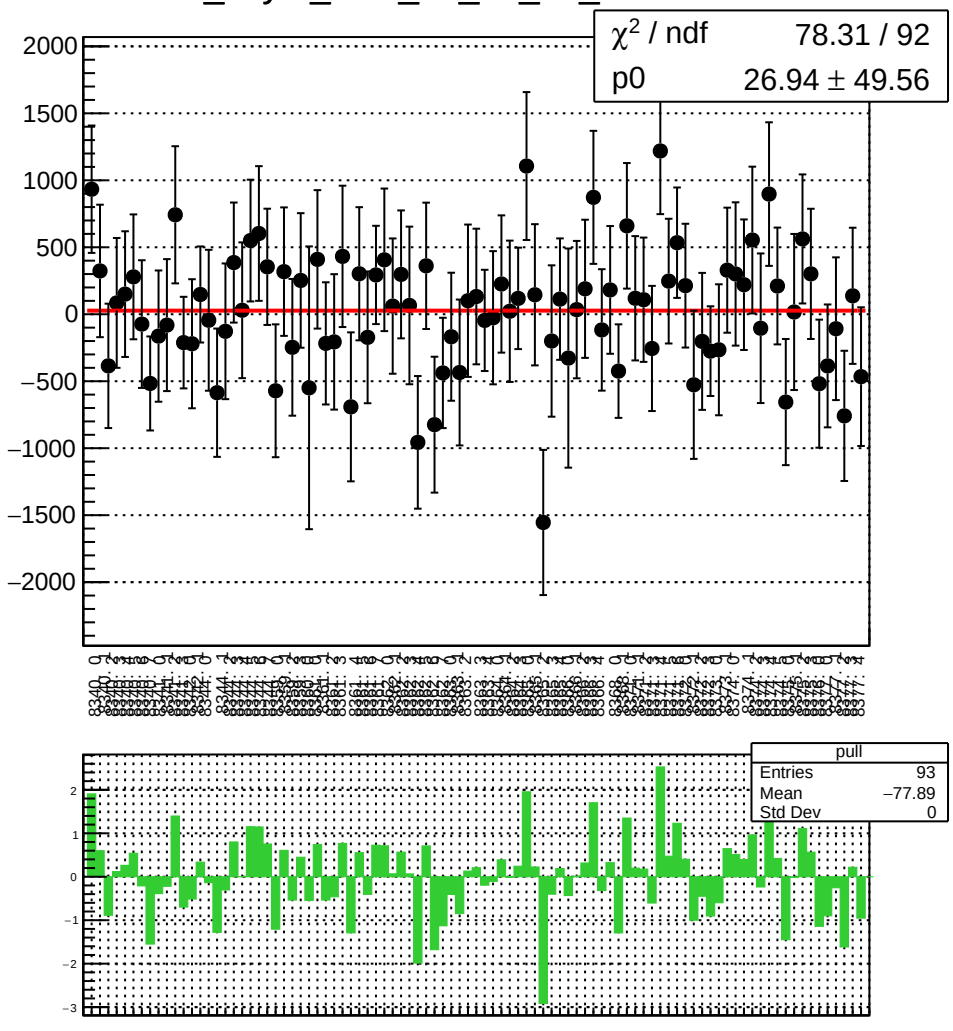

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 78.31 / 92
p0 26.94 ± 49.56
pull
Entries 93
Mean −77.97
Std Dev 0

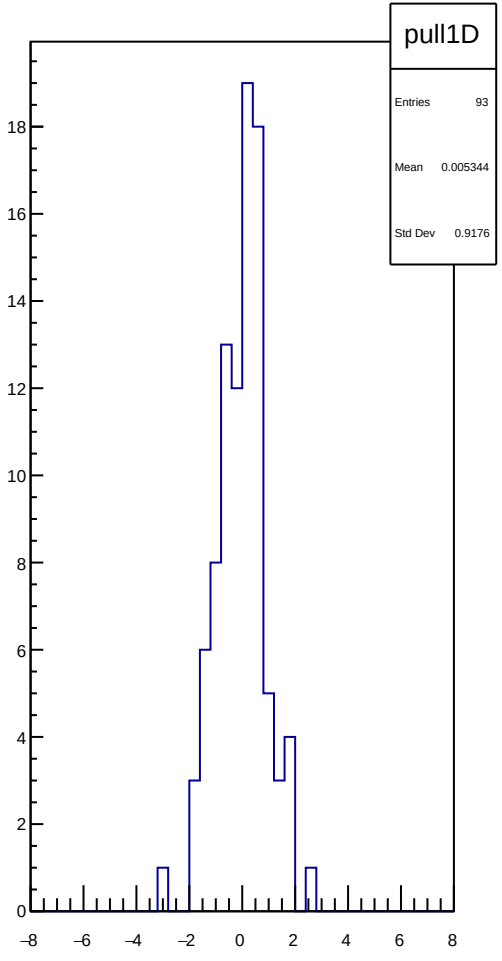

pull1D
Entries 93
Mean 0.005342
Std Dev 0.9176

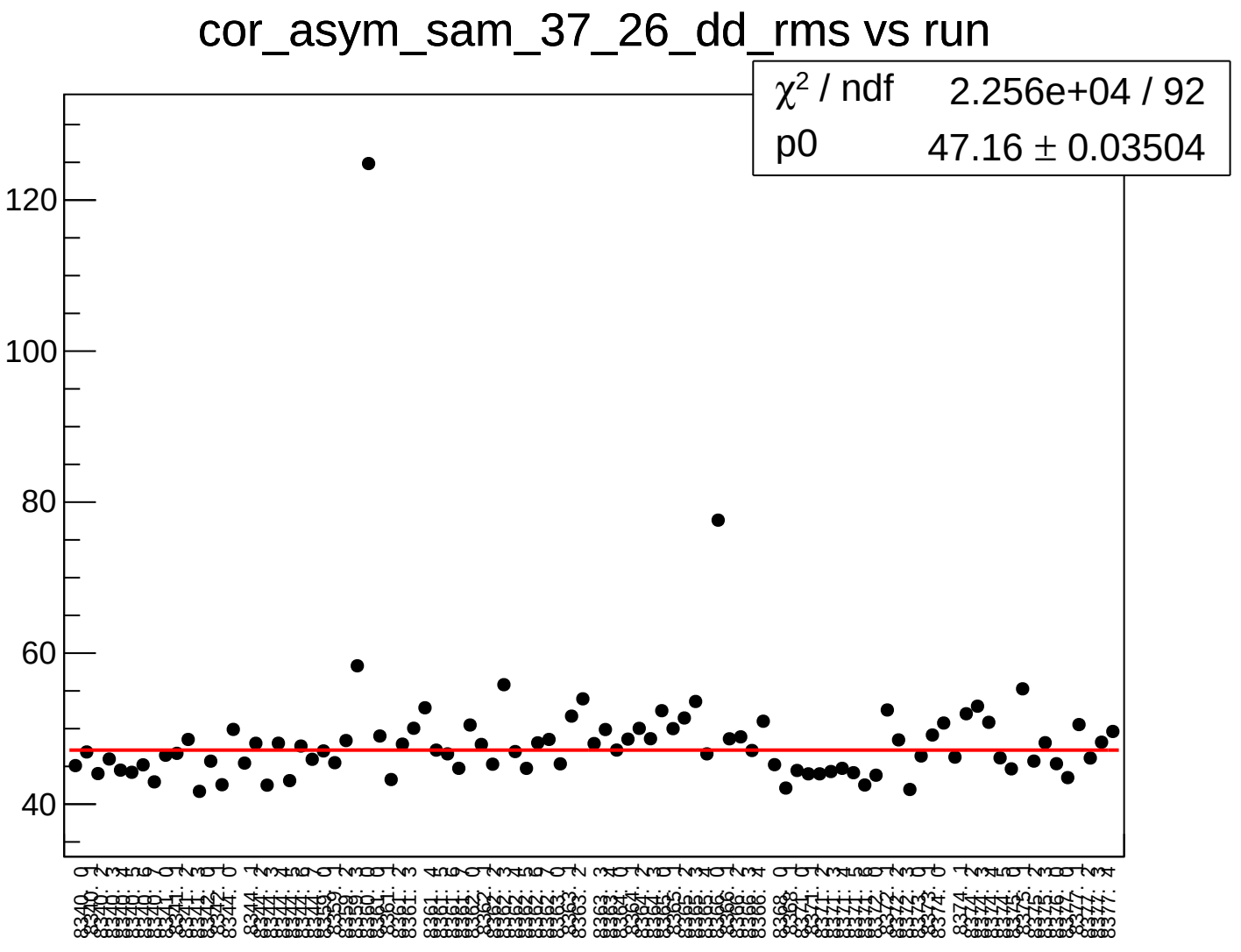

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.256e+04 / 92
p0 47.16 ± 0.03504
120
100
80
60
40

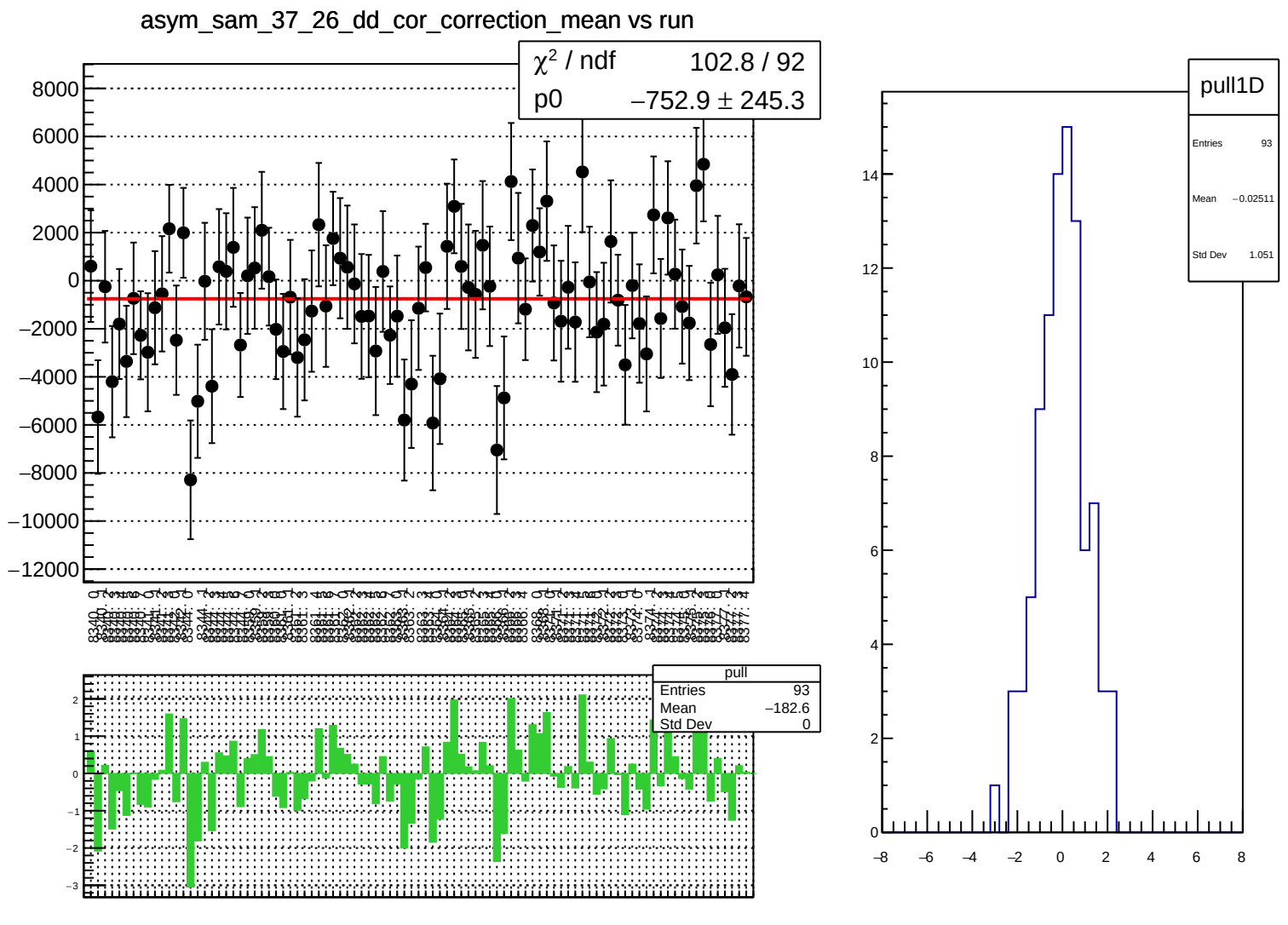

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 102.8 / 92
p0 −752.9 ± 245.3
pull
Entries 93
Mean −182.6
Std Dev 0
pull1D
Entries 93
Mean −0.02511
Std Dev 1.051

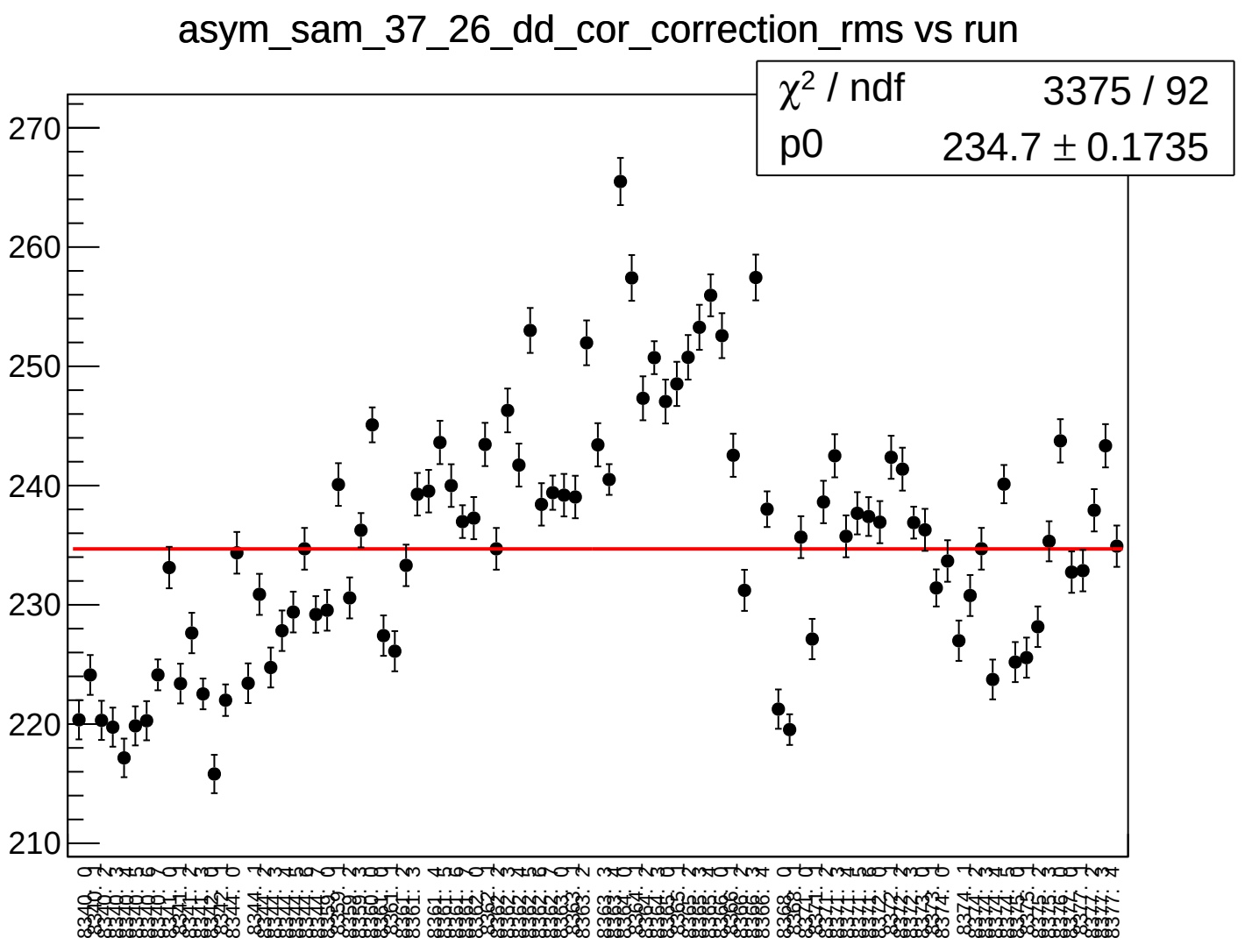

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 3375 / 92
p0 234.7 ± 0.1735
270
260
250
240
230
220
210

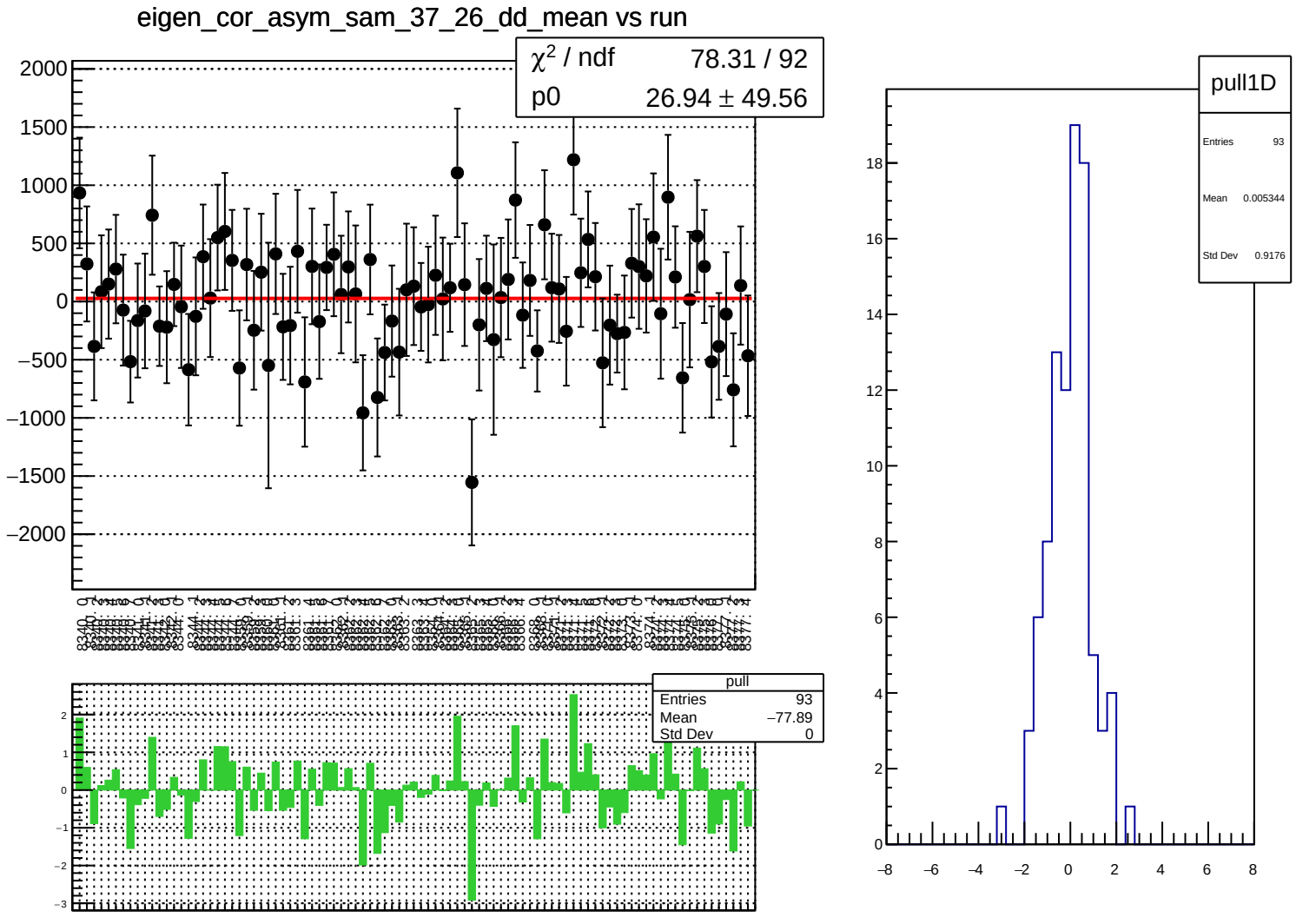

cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 78.31 / 92
p0 26.94 ± 49.56
pull
Entries 93
Mean −77.89
Std Dev 0

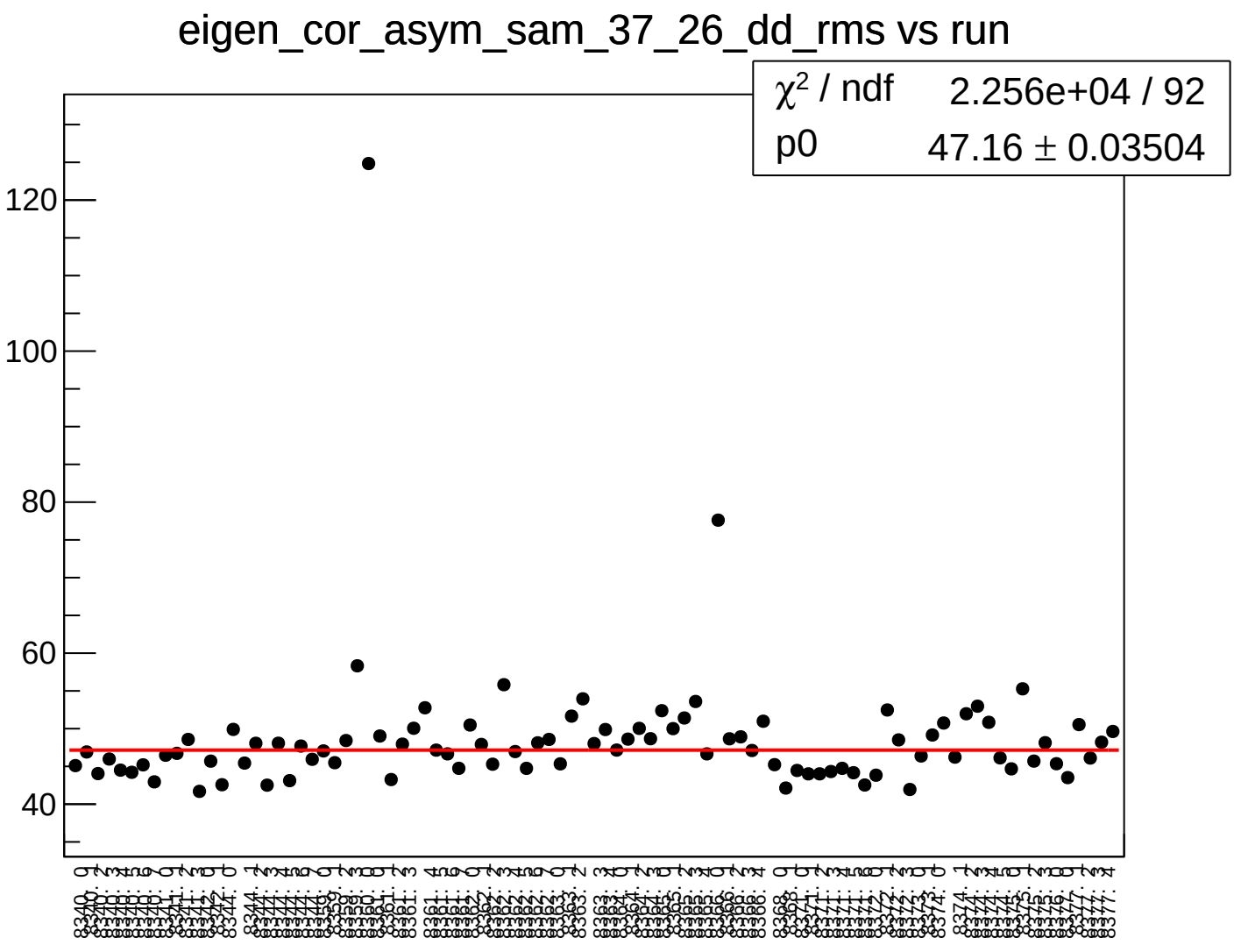

pull1D
Entries 93
Mean 0.005344
Std Dev 0.9176

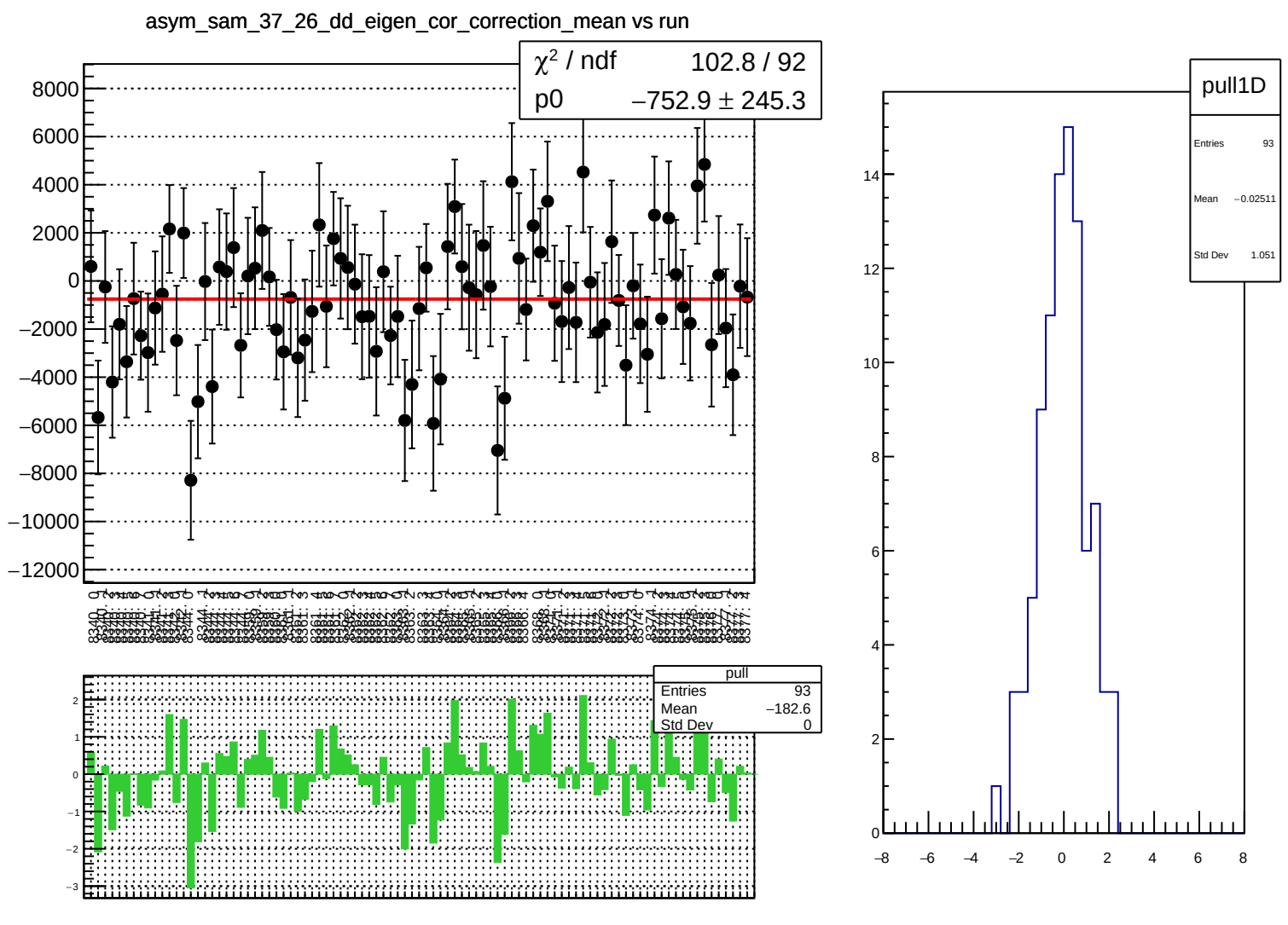

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.256e+04 / 92
p0 47.16 ± 0.03504
120
100
80
60
40

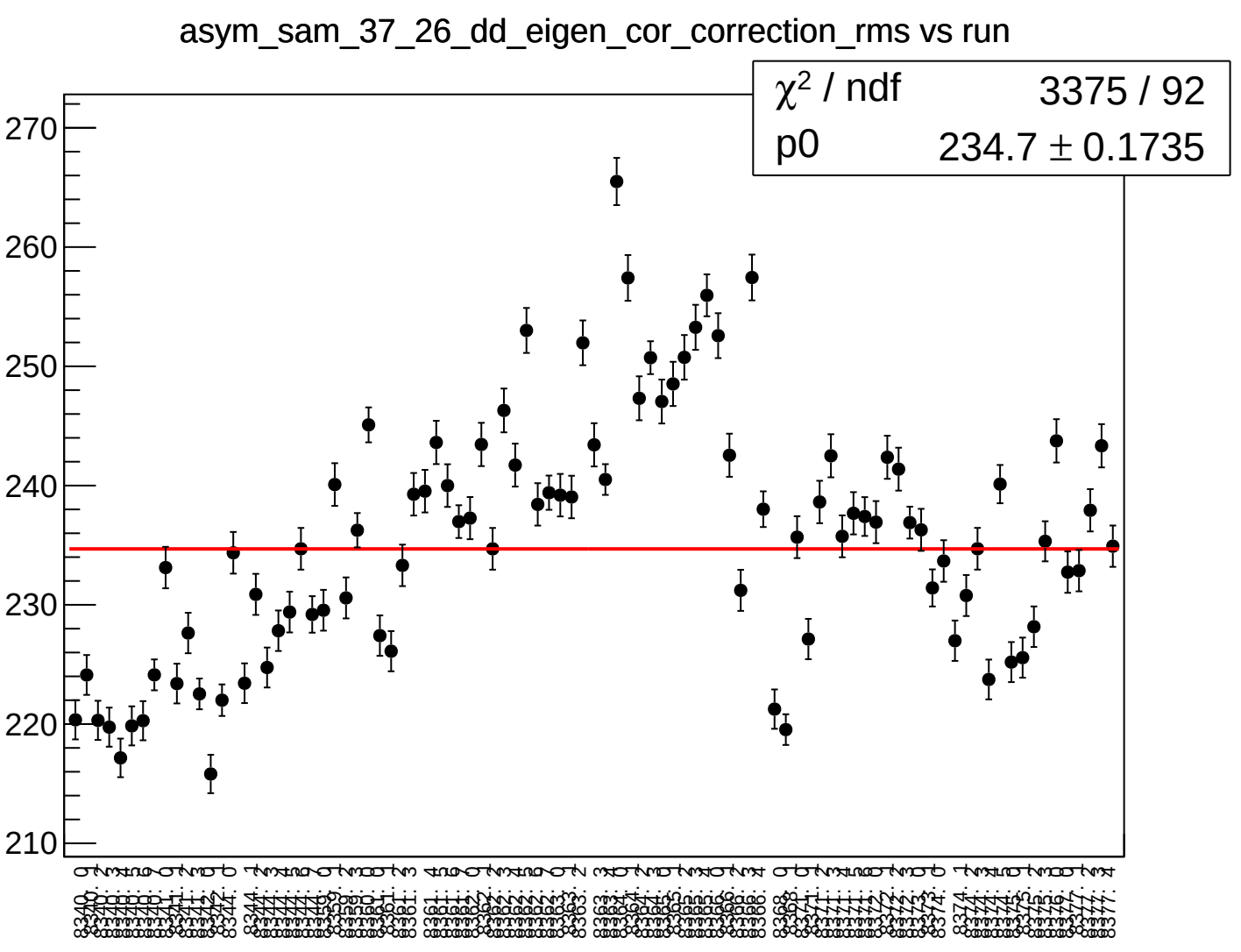

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 102.8 / 92
p0 −752.9 ± 245.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 93
Mean −182.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.02511
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

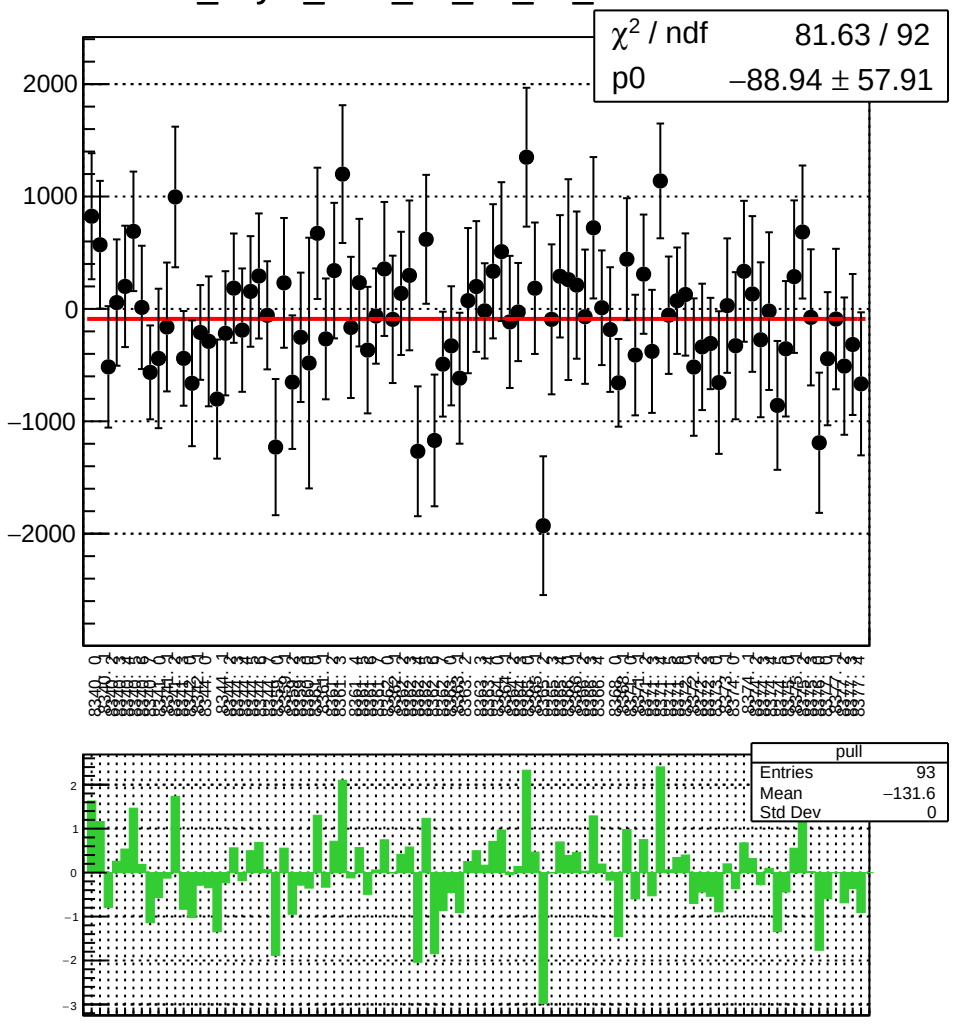

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 3375 / 92
p0 234.7 ± 0.1735
270
260
250
240
230
220
210

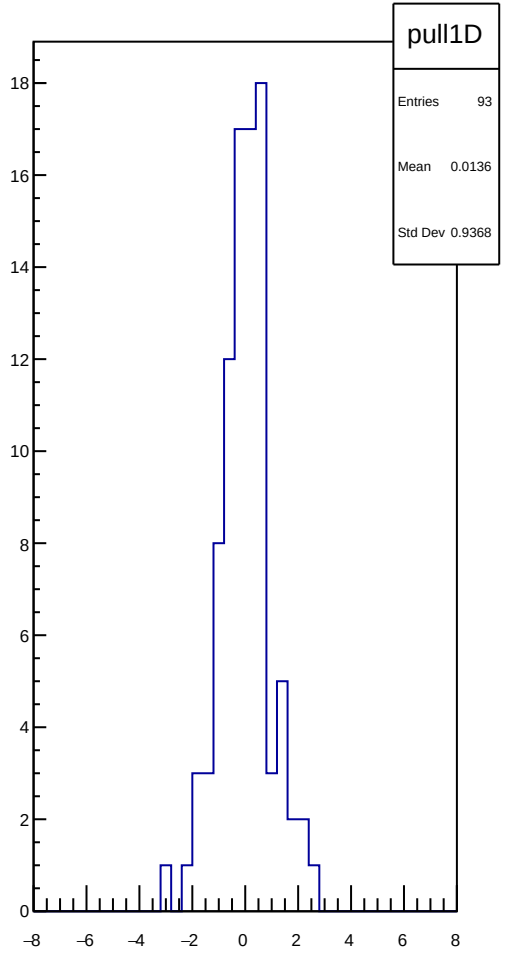

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 78.31 / 92
p0 26.94 ± 49.56
pull
Entries 93
Mean −77.89
Std Dev 0
pull1D
Entries 93
Mean 0.005344
Std Dev 0.9176

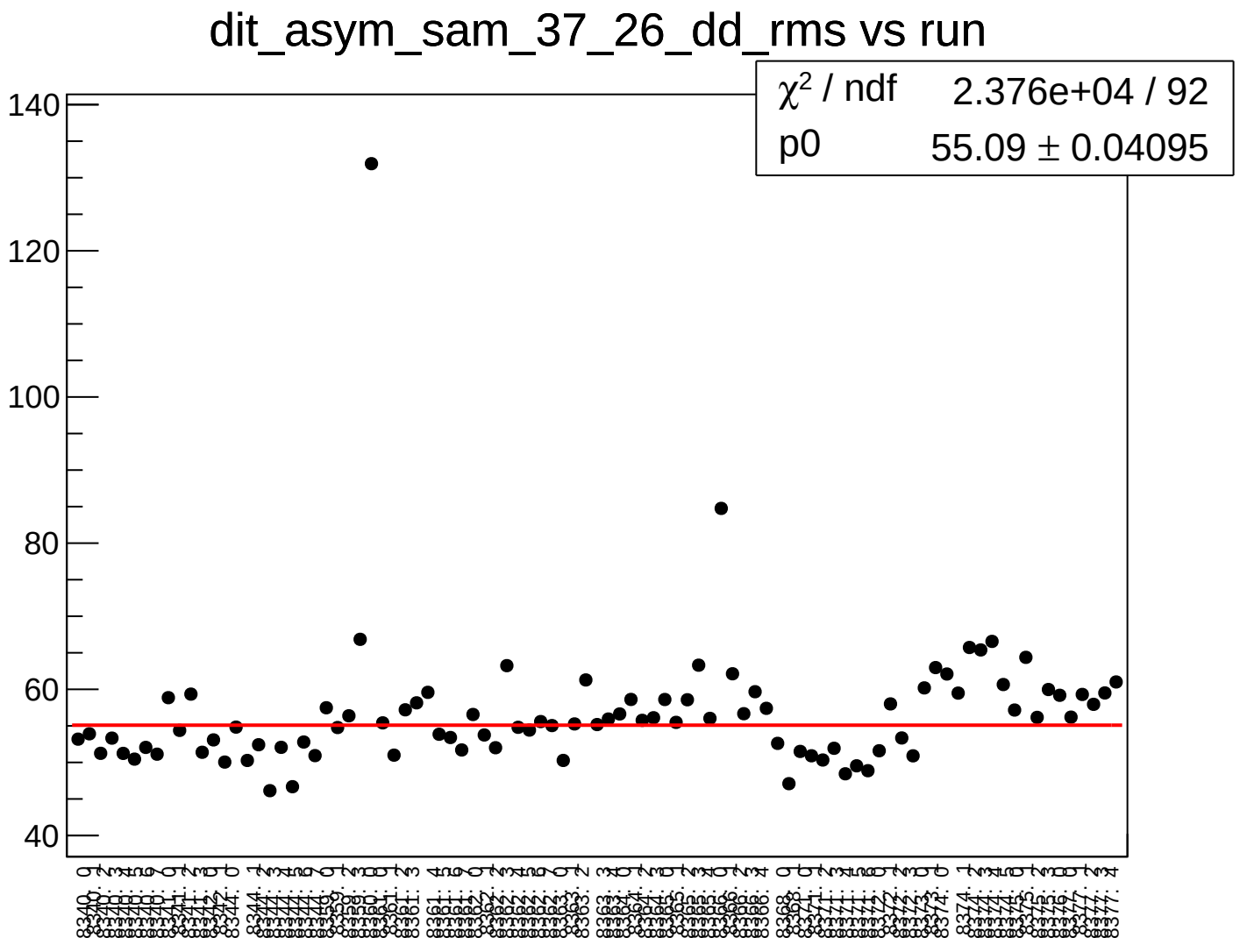

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.256e+04 / 92
p0 47.16 ± 0.03504
120
100
80
60
40

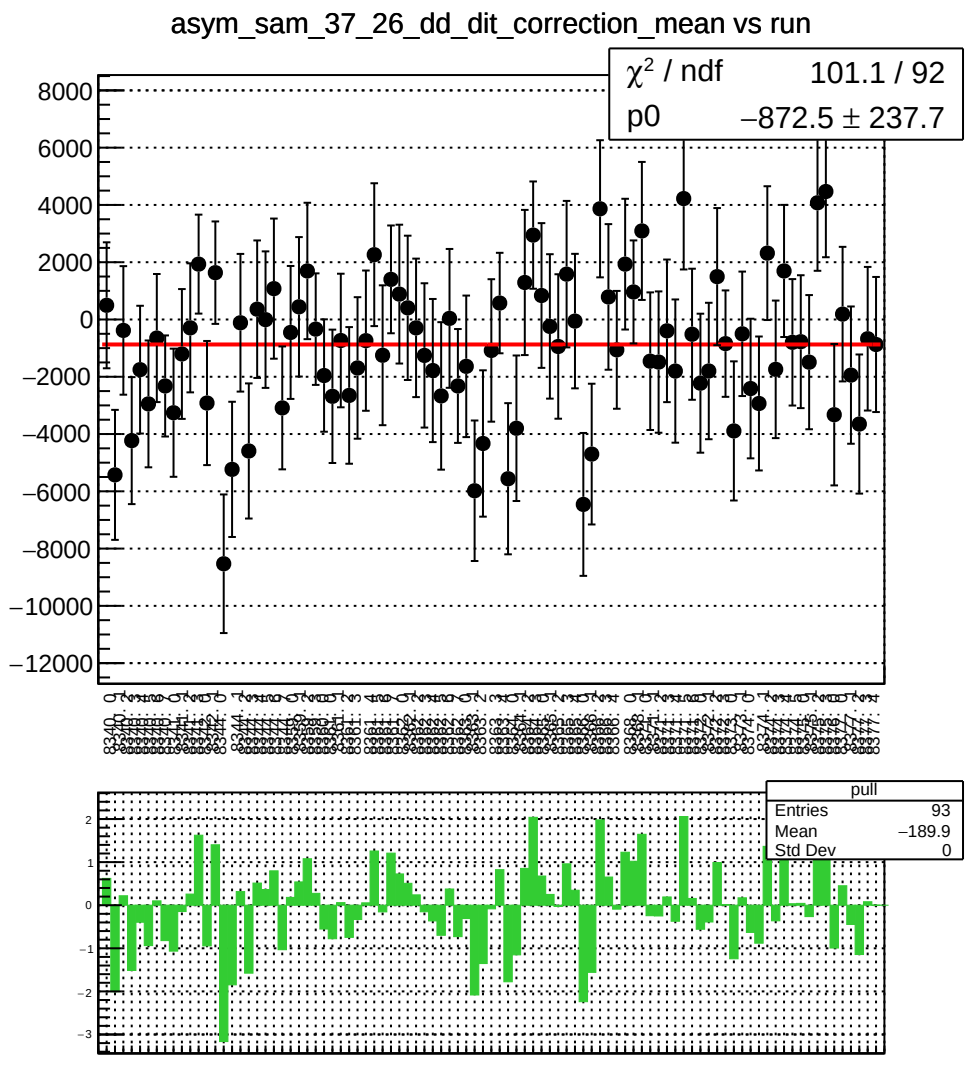

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.8 / 92
p0 −752.9 ± 245.3
pull
Entries 93
Mean −182.6
Std Dev 0
pull1D
Entries 93
Mean −0.02511
Std Dev 1.051

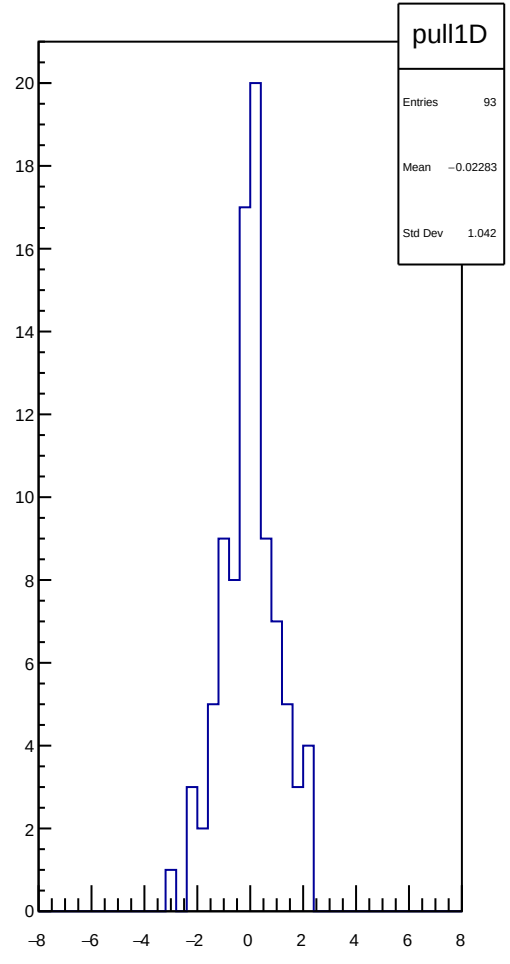

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3375 / 92
p0 234.7 ± 0.1735
270
260
250
240
230
220
210

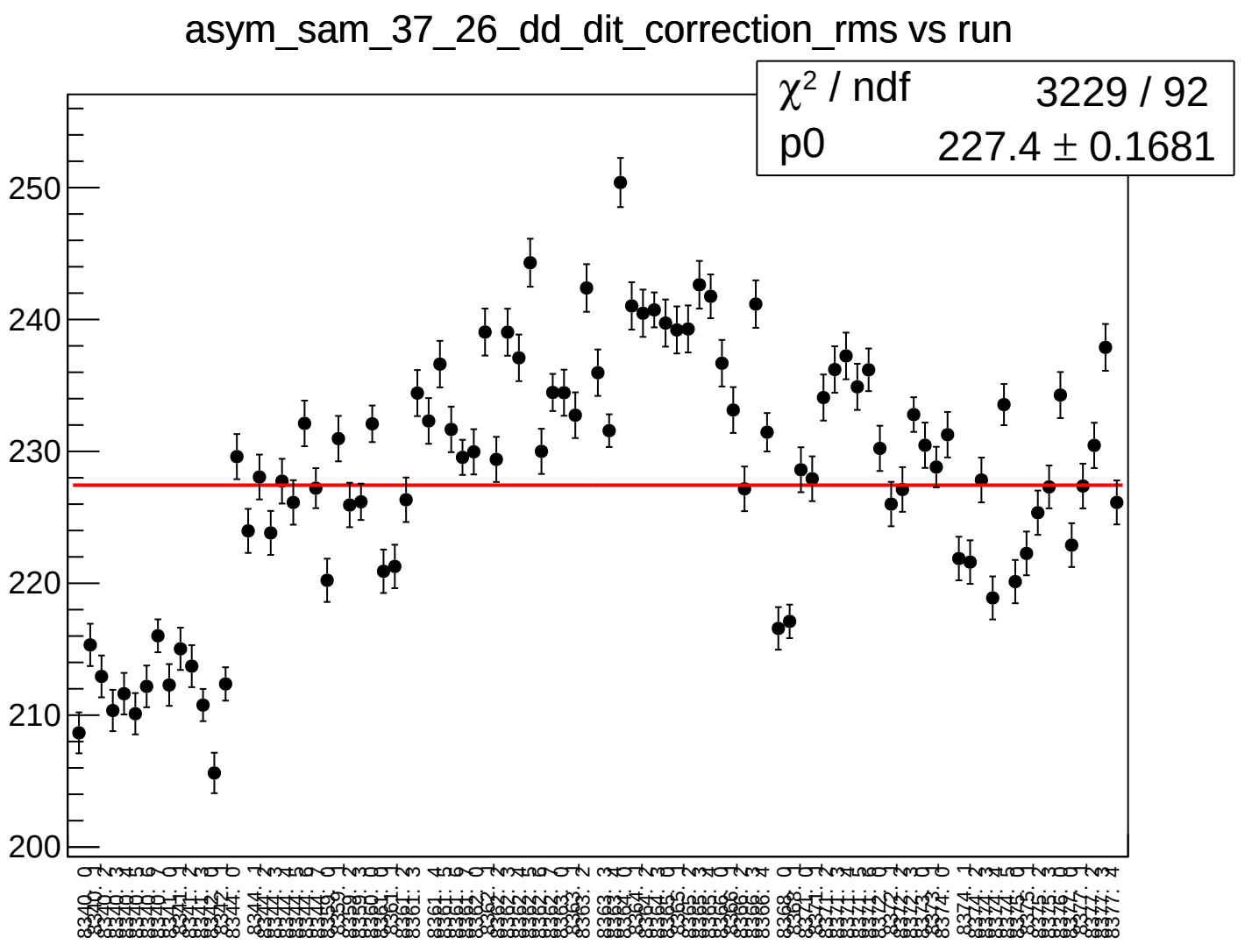

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 81.63 / 92
p0 −88.94 ± 57.91
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −131.6
Std Dev 0
2
1
0
−1
−2
−3

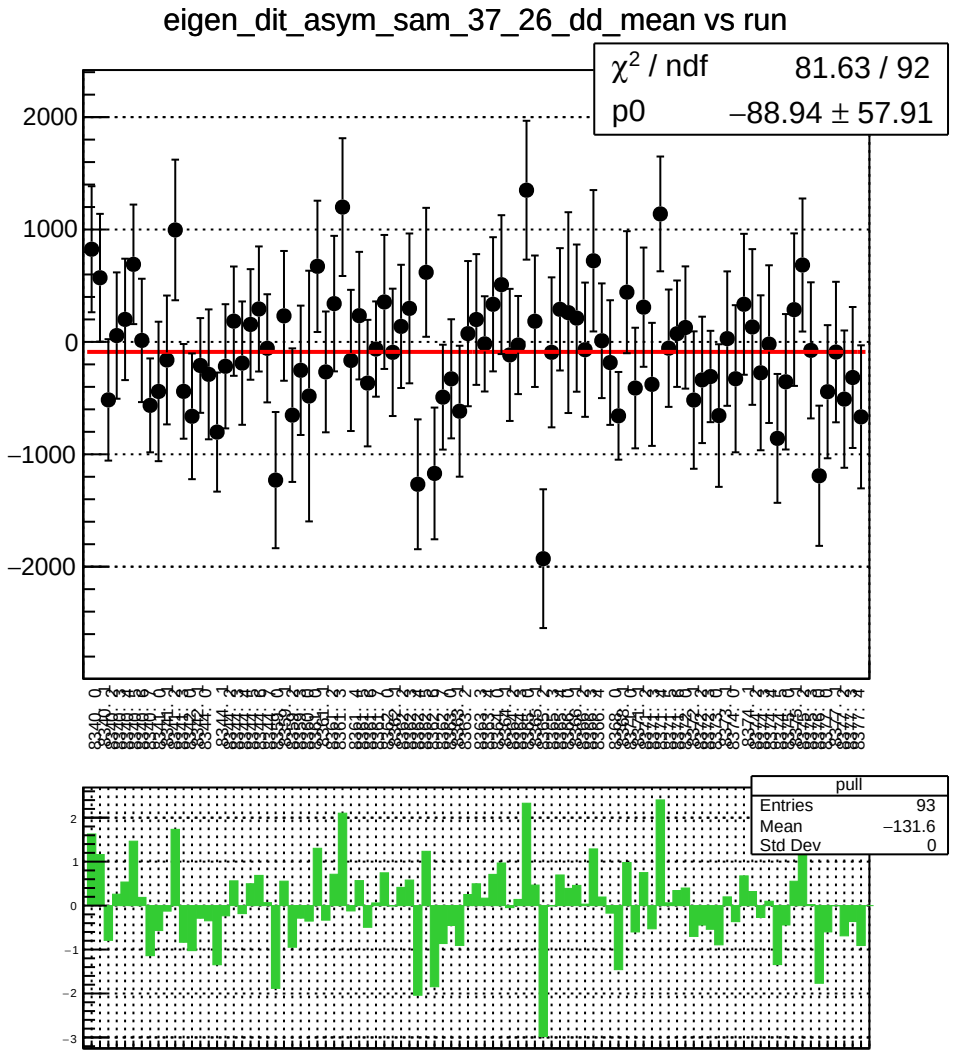

pull1D
Entries 93
Mean 0.0136
Std Dev 0.9368
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

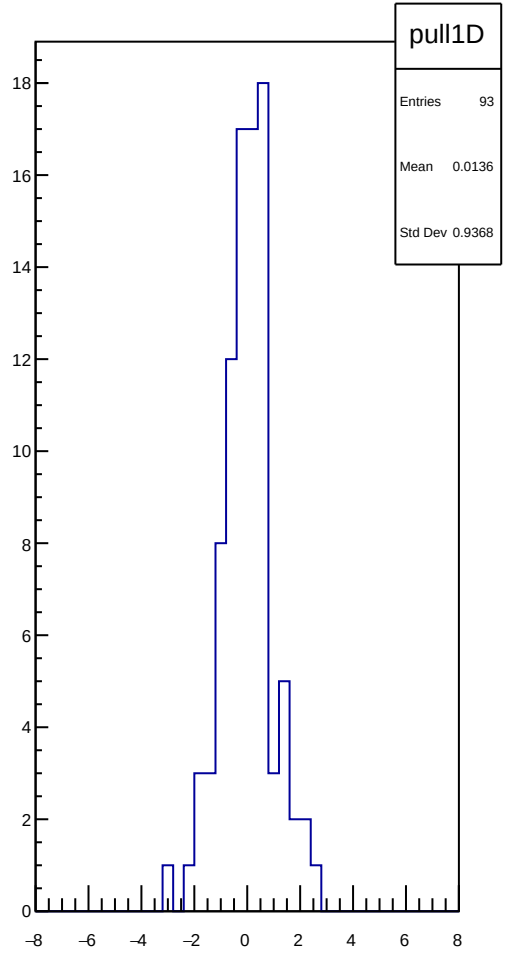

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.376e+04 / 92
p0 55.09 ± 0.04095
140
120
100
80
60
40

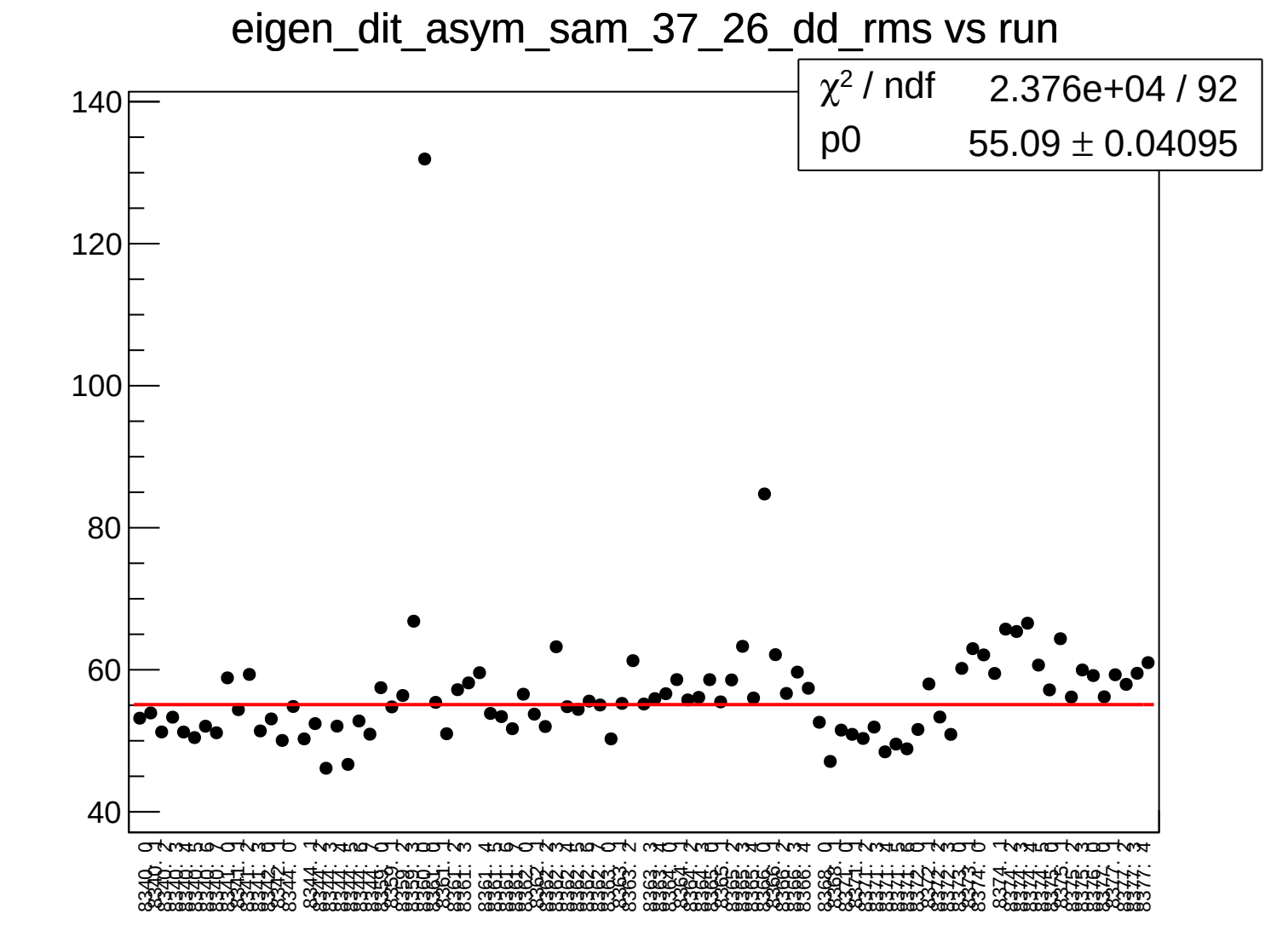

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 101.1 / 92
p0 −872.5 ± 237.7
pull
Entries 93
Mean −189.9
Std Dev 0

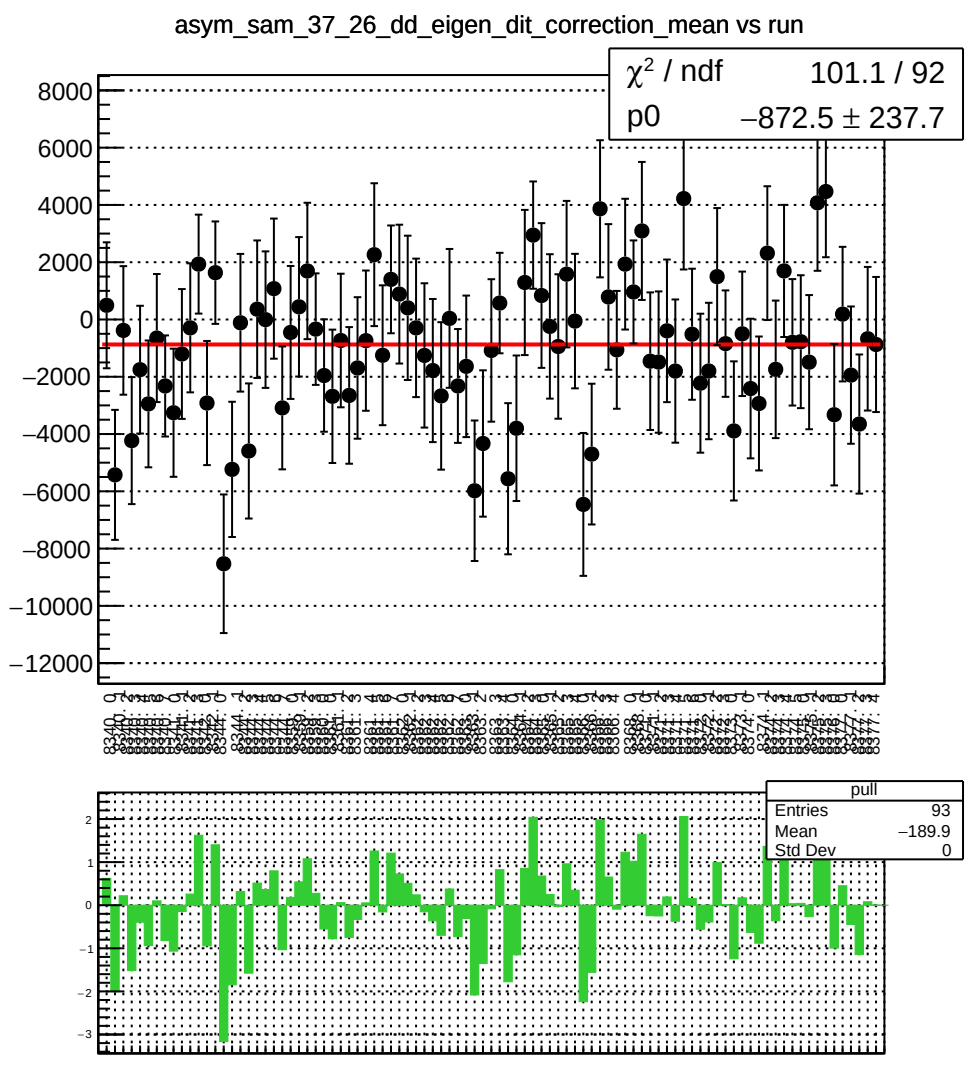

pull1D
Entries 93
Mean −0.02283
Std Dev 1.042

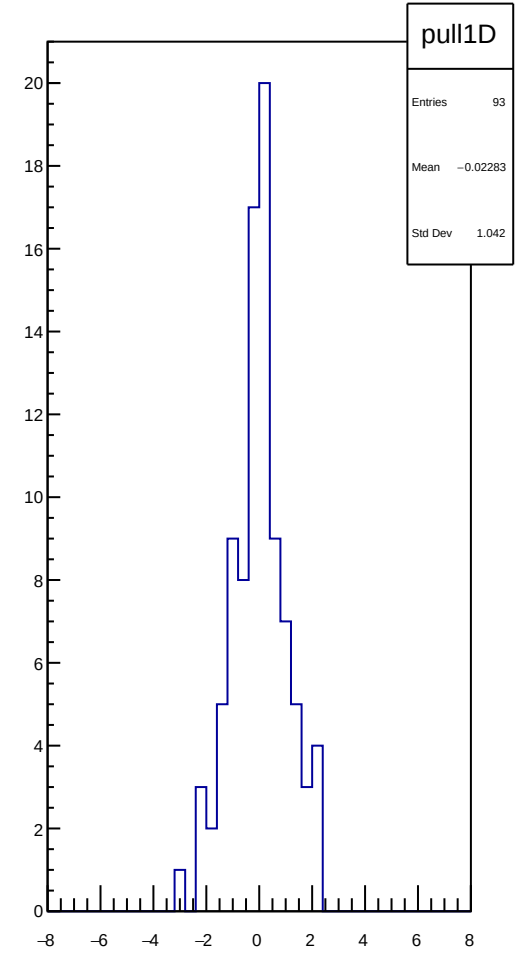

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3229 / 92
p0 227.4 ± 0.1681
250
240
230
220
210
200

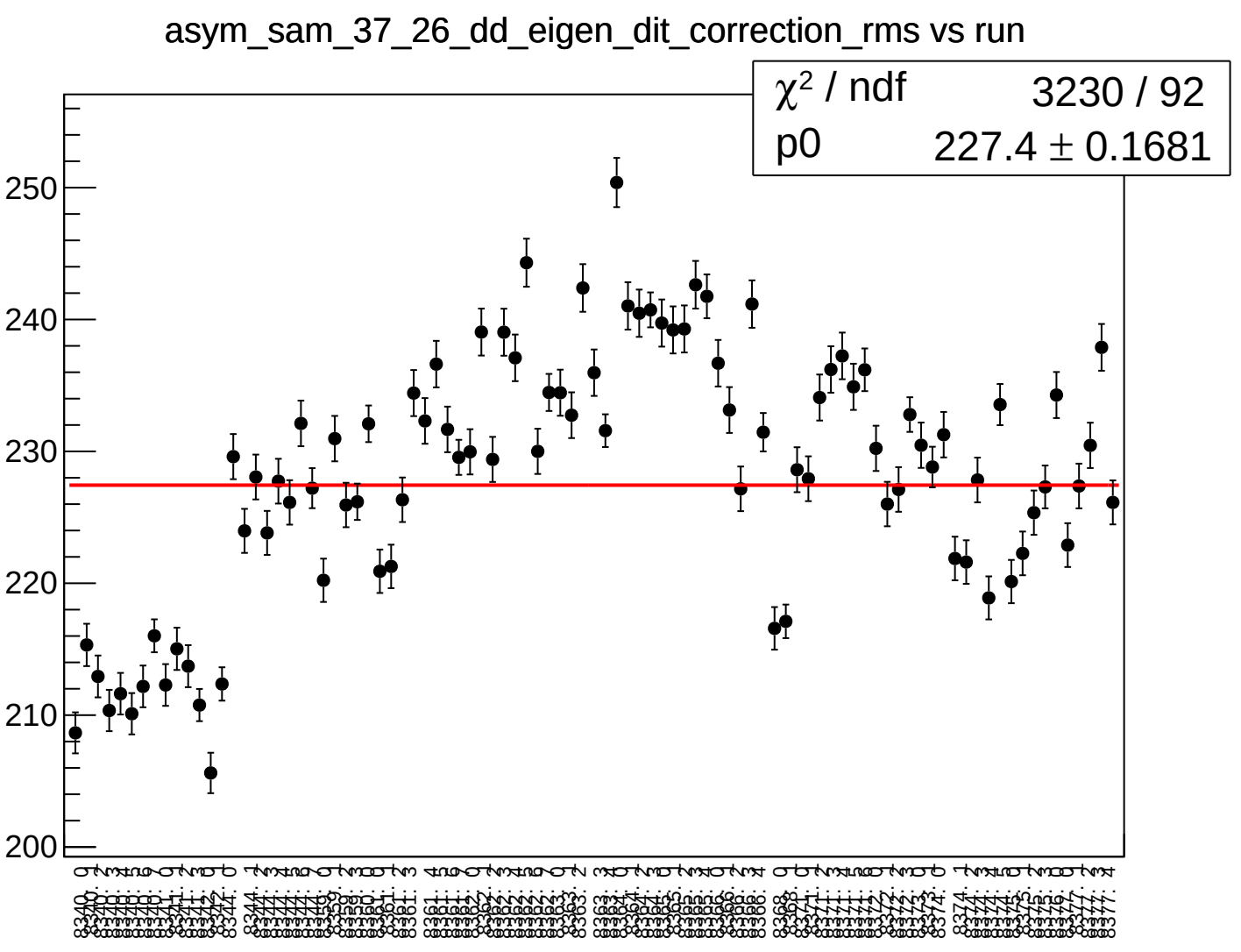

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 81.63 / 92
p0 −88.94 ± 57.91
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −131.6
Std Dev 0
2
1
0
−1
−2
−3

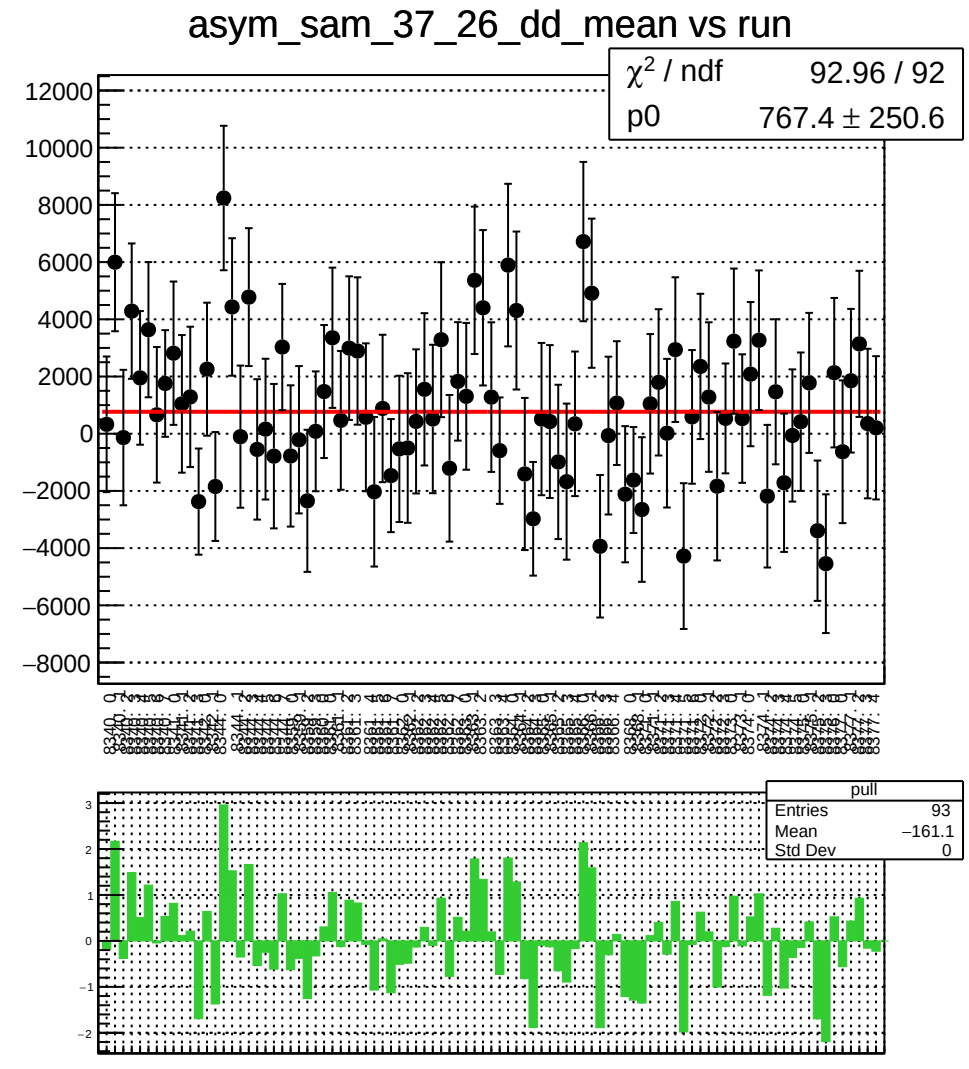

pull1D
Entries 93
Mean 0.0136
Std Dev 0.9368
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

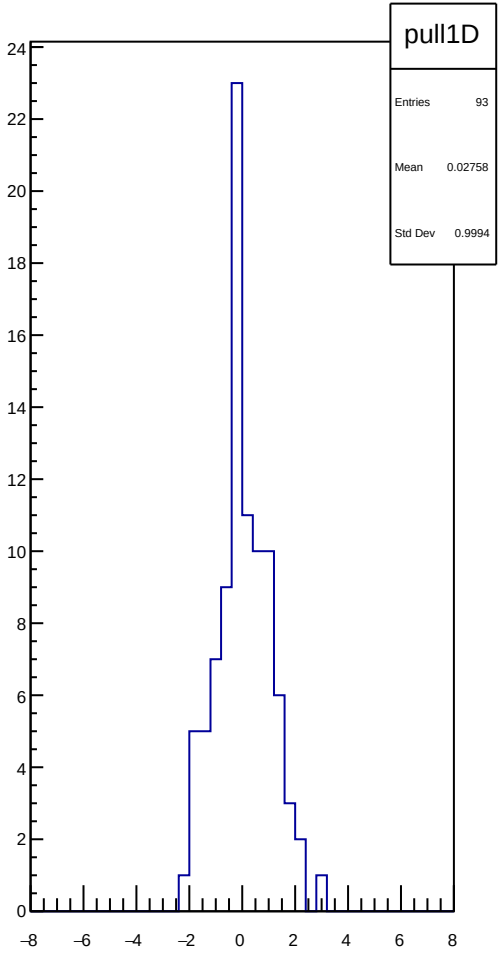

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2.376e+04 / 92
p0 55.09 ± 0.04095
140
120
100
80
60
40

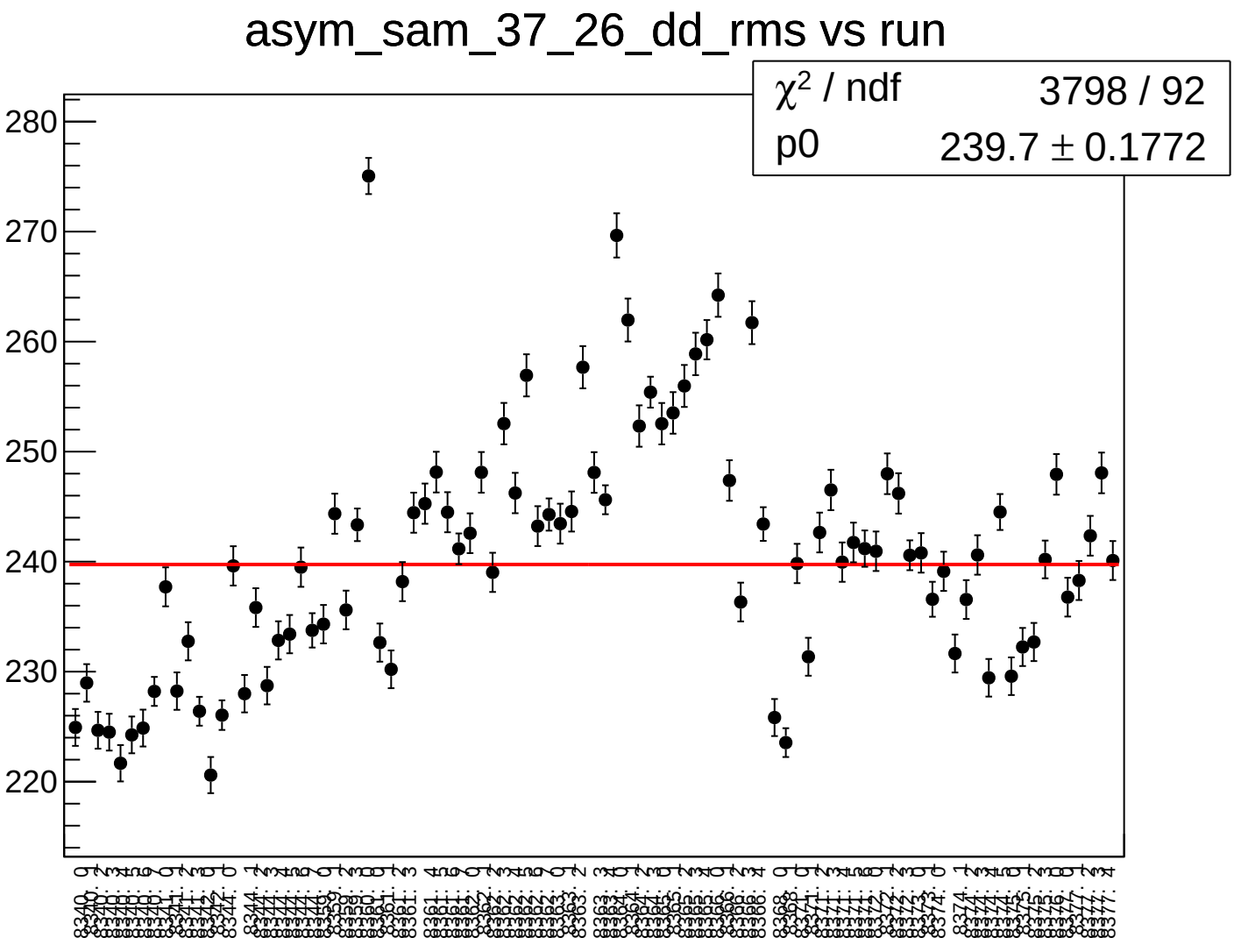

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.1 / 92
p0 −872.5 ± 237.7
pull
Entries 93
Mean −189.9
Std Dev 0

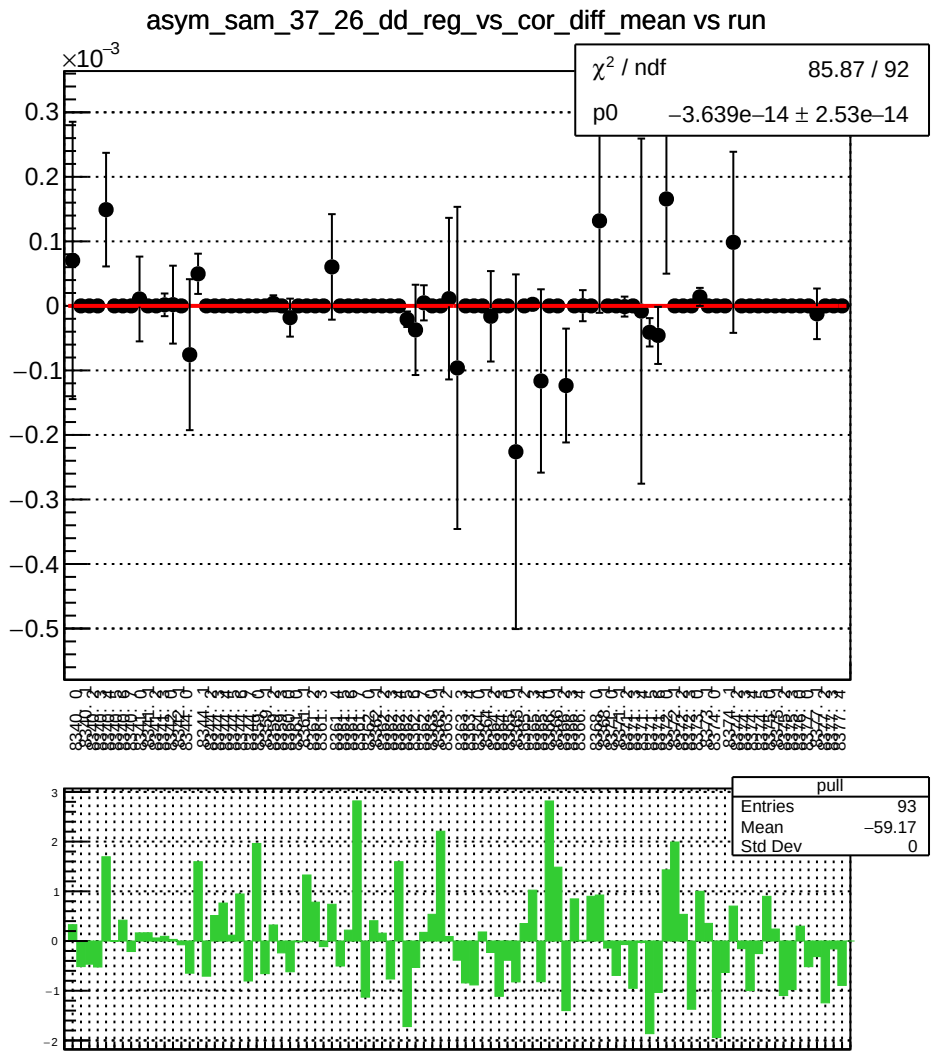

pull1D
Entries 93
Mean −0.02283
Std Dev 1.042

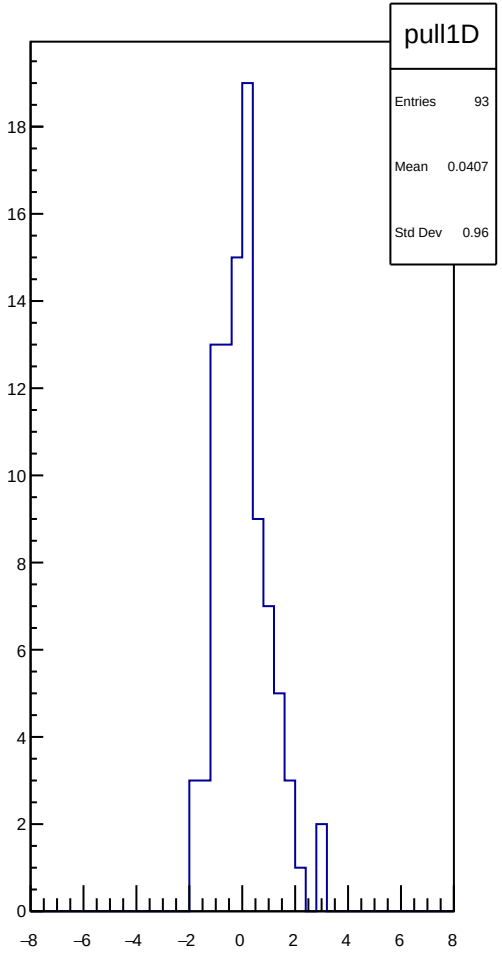

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3230 / 92
p0 227.4 ± 0.1681
250
240
230
220
210
200

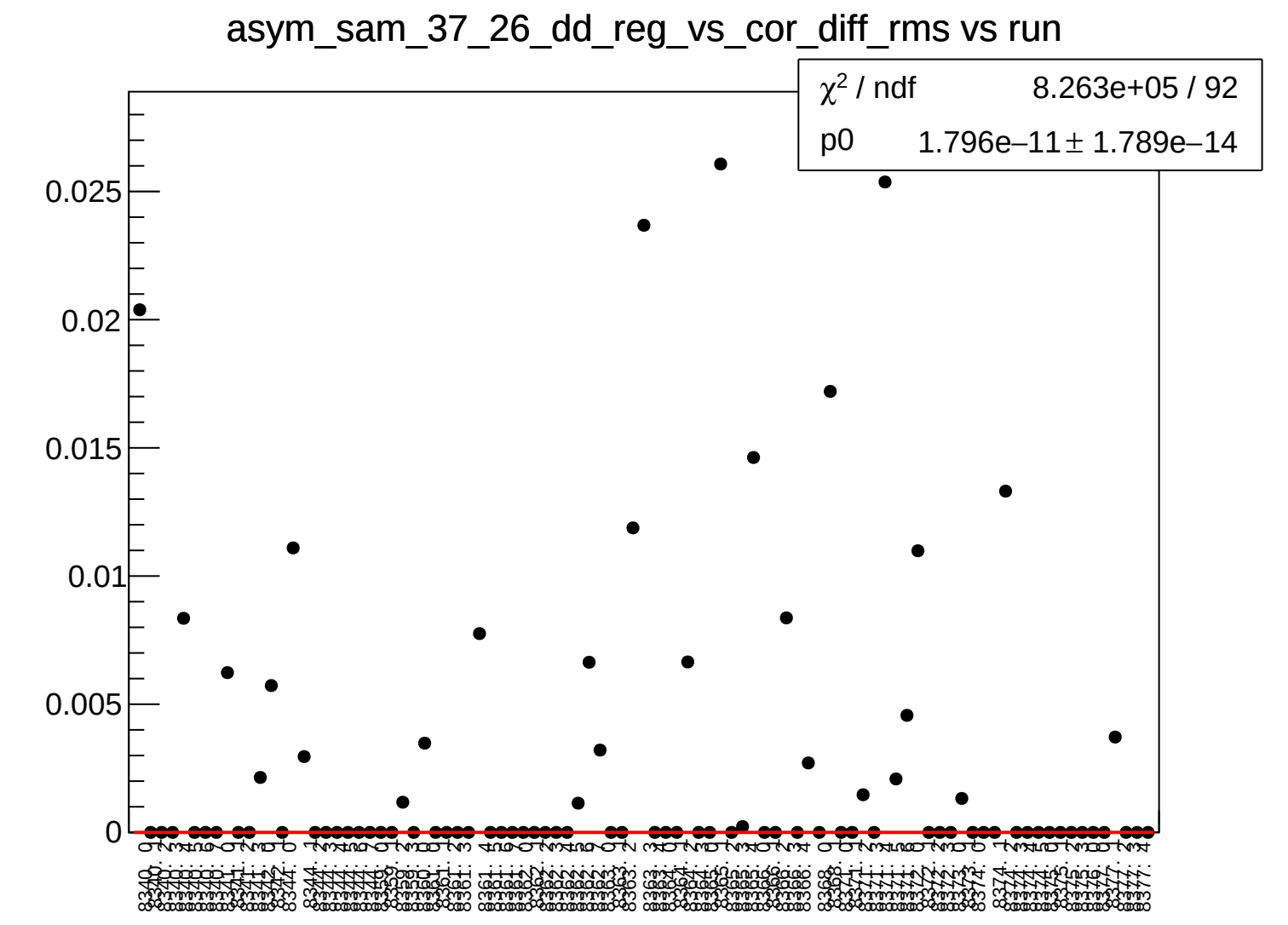

asym_sam_37_26_dd_mean vs run
χ² / ndf 92.96 / 92
p0 767.4 ± 250.6
pull
Entries 93
Mean −161.1
Std Dev 0

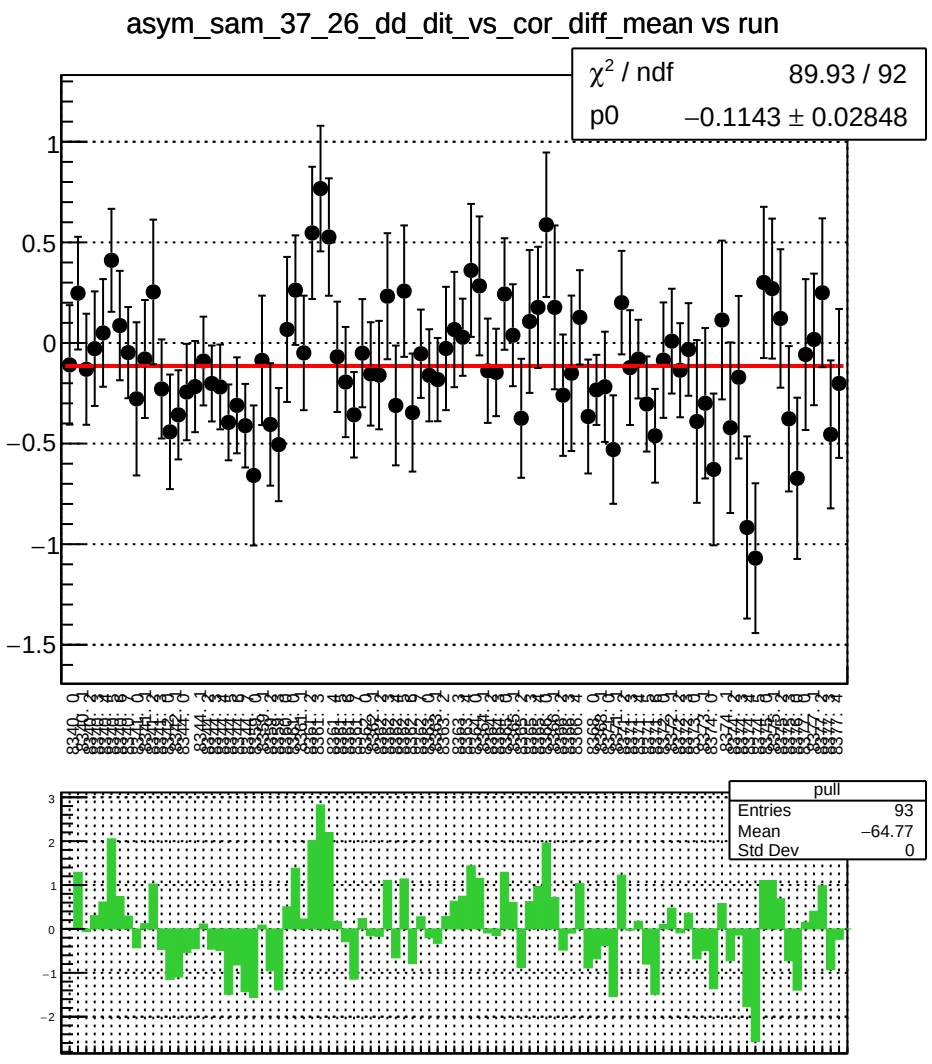

pull1D
Entries 93
Mean 0.02758
Std Dev 0.9994

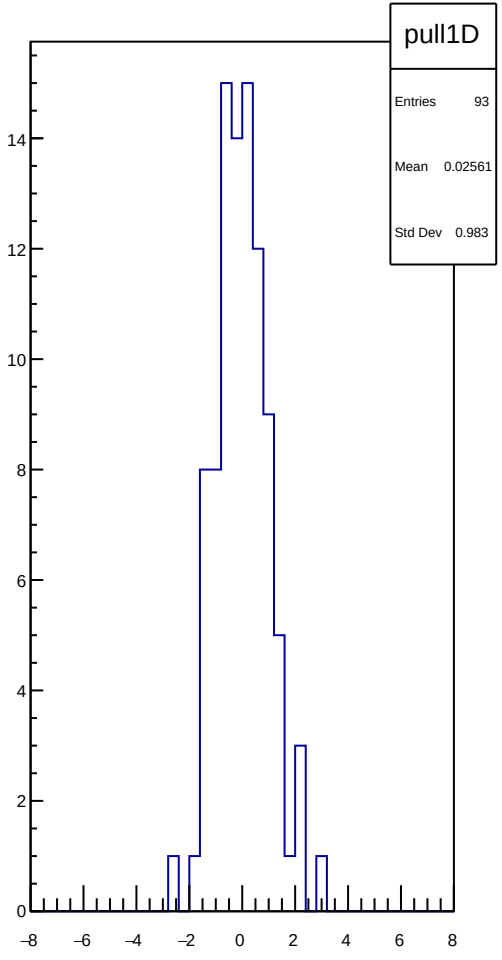

asym_sam_37_26_dd_rms vs run
χ² / ndf 3798 / 92
p0 239.7 ± 0.1772
280
270
260
250
240
230
220

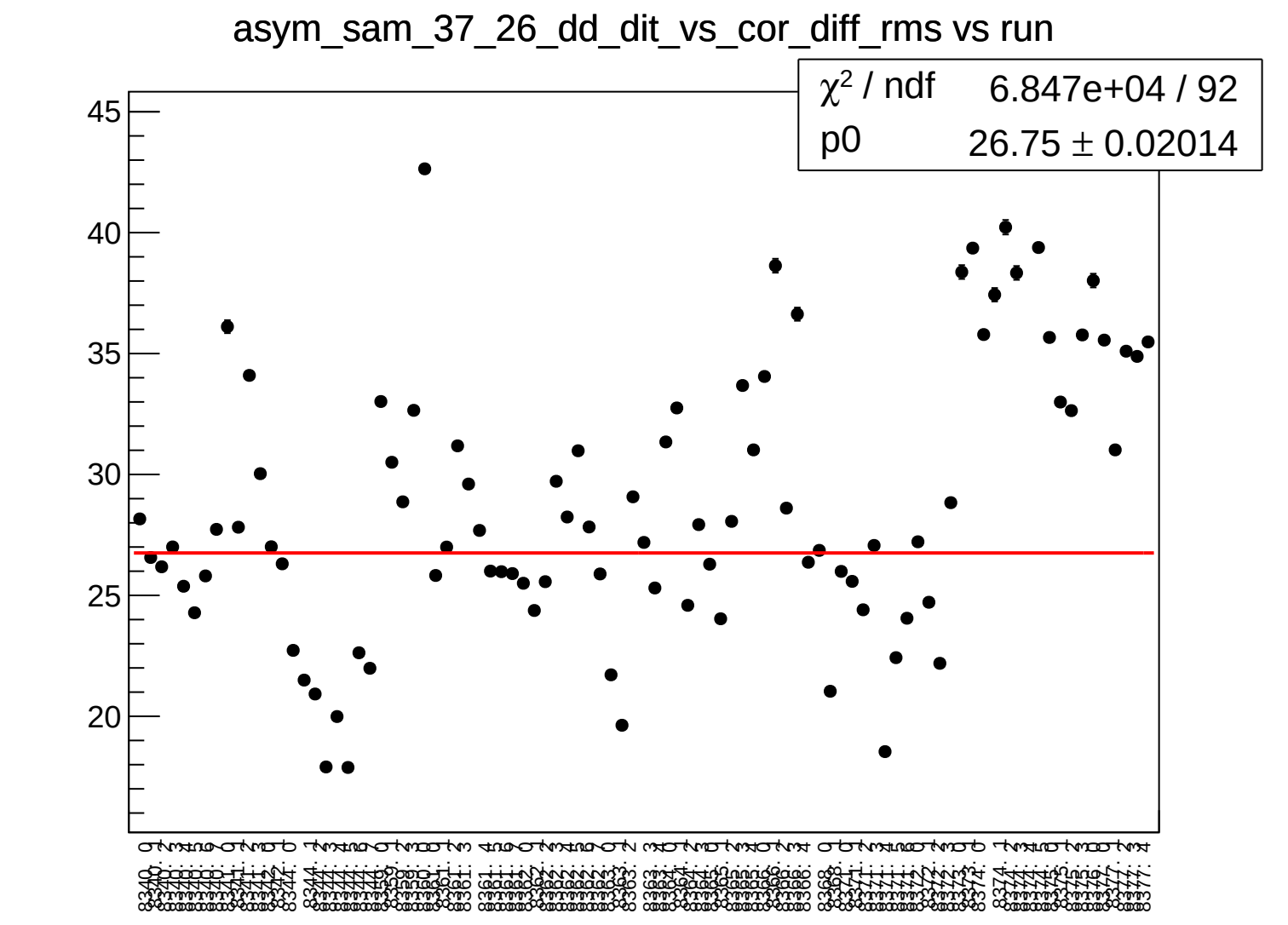

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.87 / 92
p0 −3.639e−14 ± 2.53e−14
pull
Entries 93
Mean −59.17
Std Dev 0

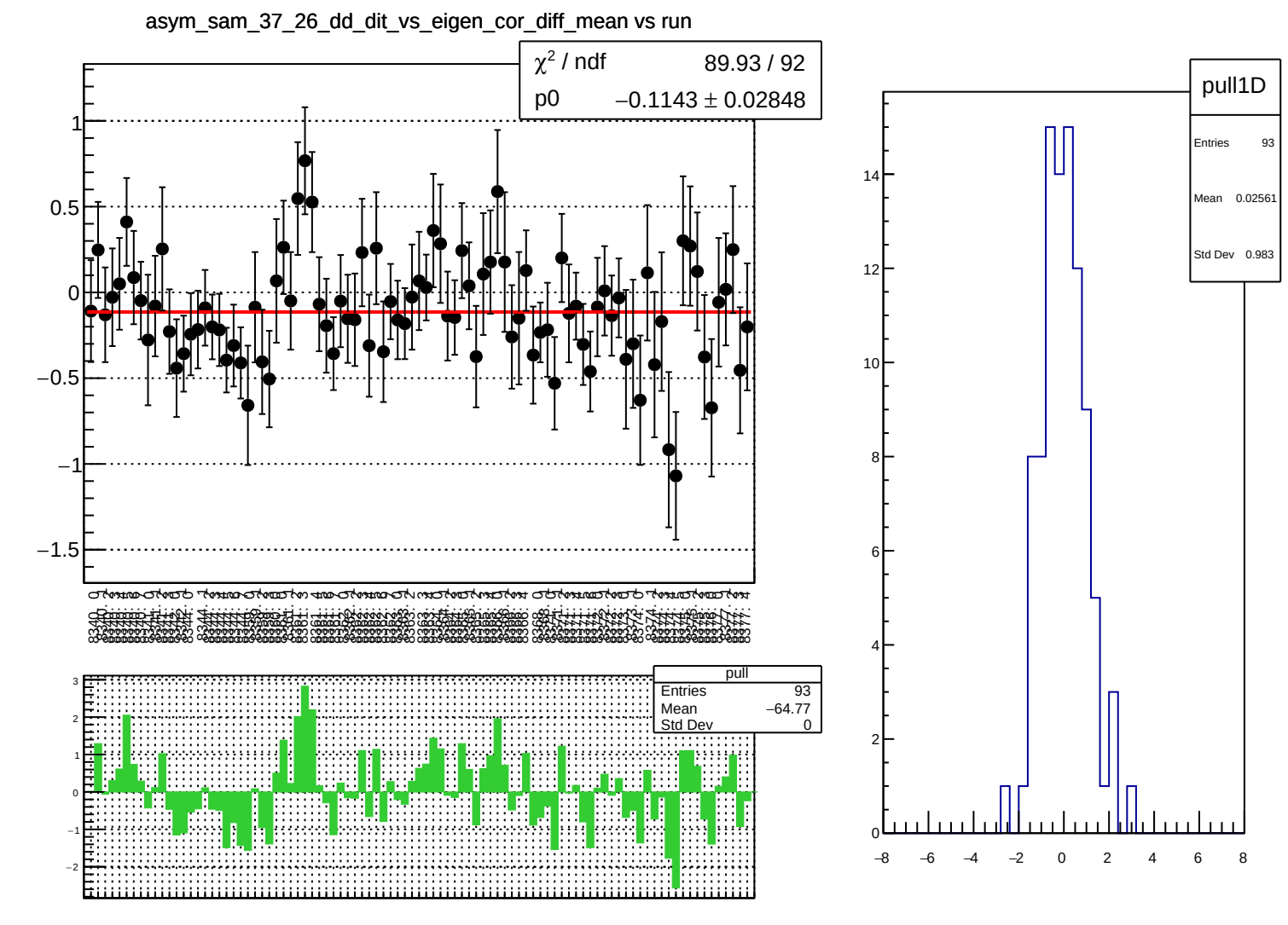

pull1D
Entries 93
Mean 0.0407
Std Dev 0.96

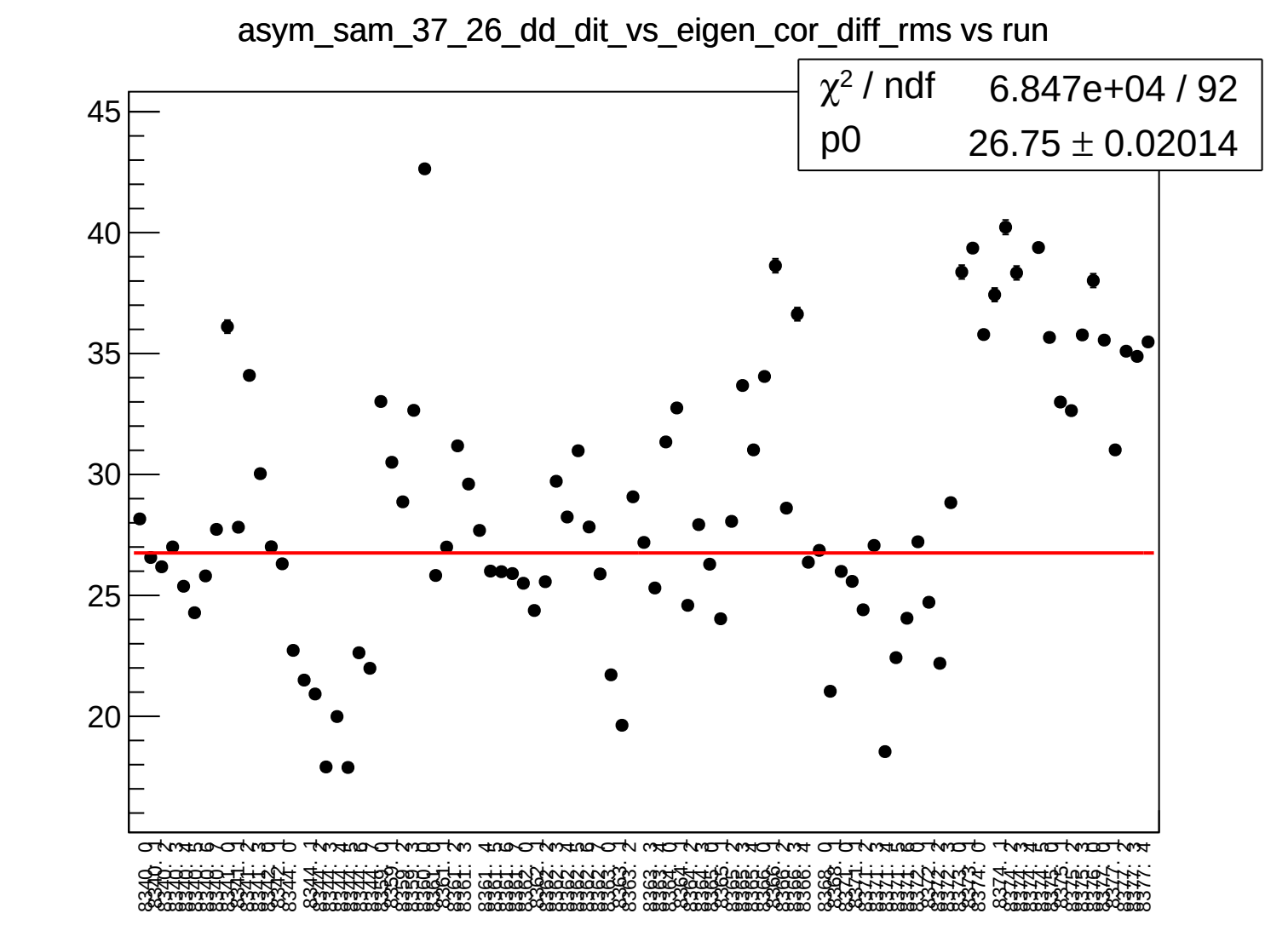

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.263e+05 / 92
p0 1.796e−11 ± 1.789e−14
0.025
0.02
0.015
0.01
0.005
0

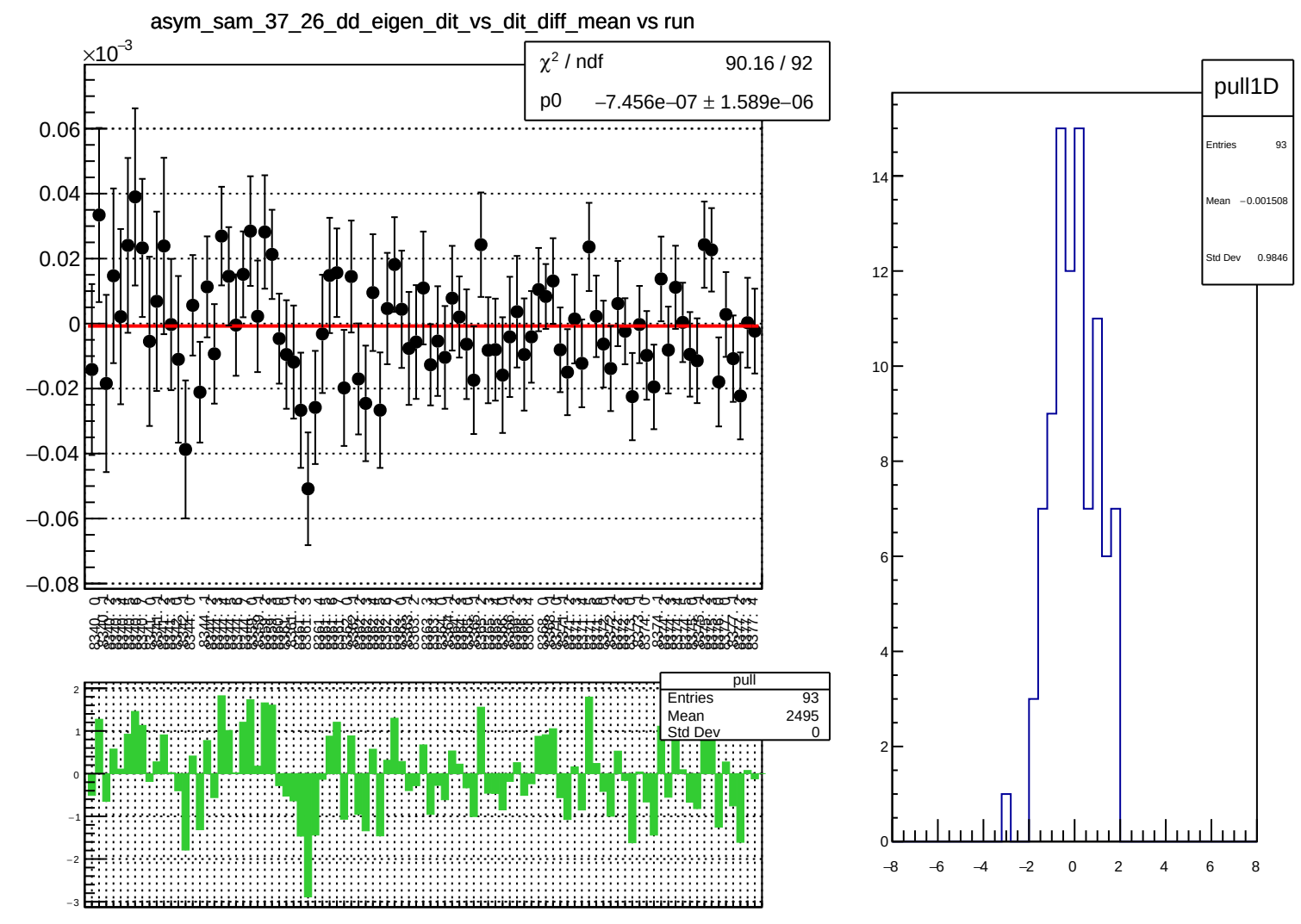

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 92
p0 −0.1143 ± 0.02848
pull
Entries 93
Mean −64.77
Std Dev 0

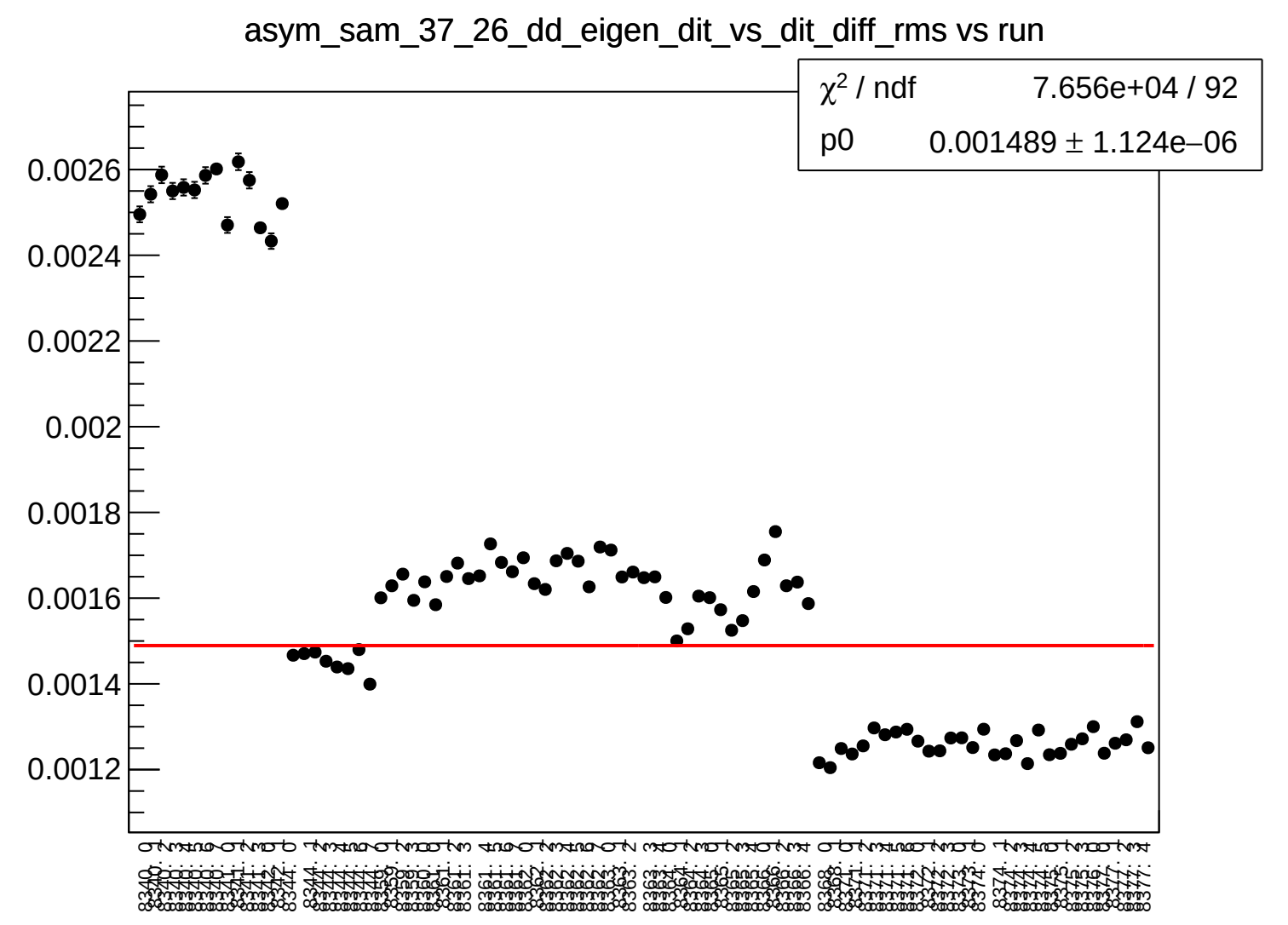

pull1D
Entries 93
Mean 0.02561
Std Dev 0.983

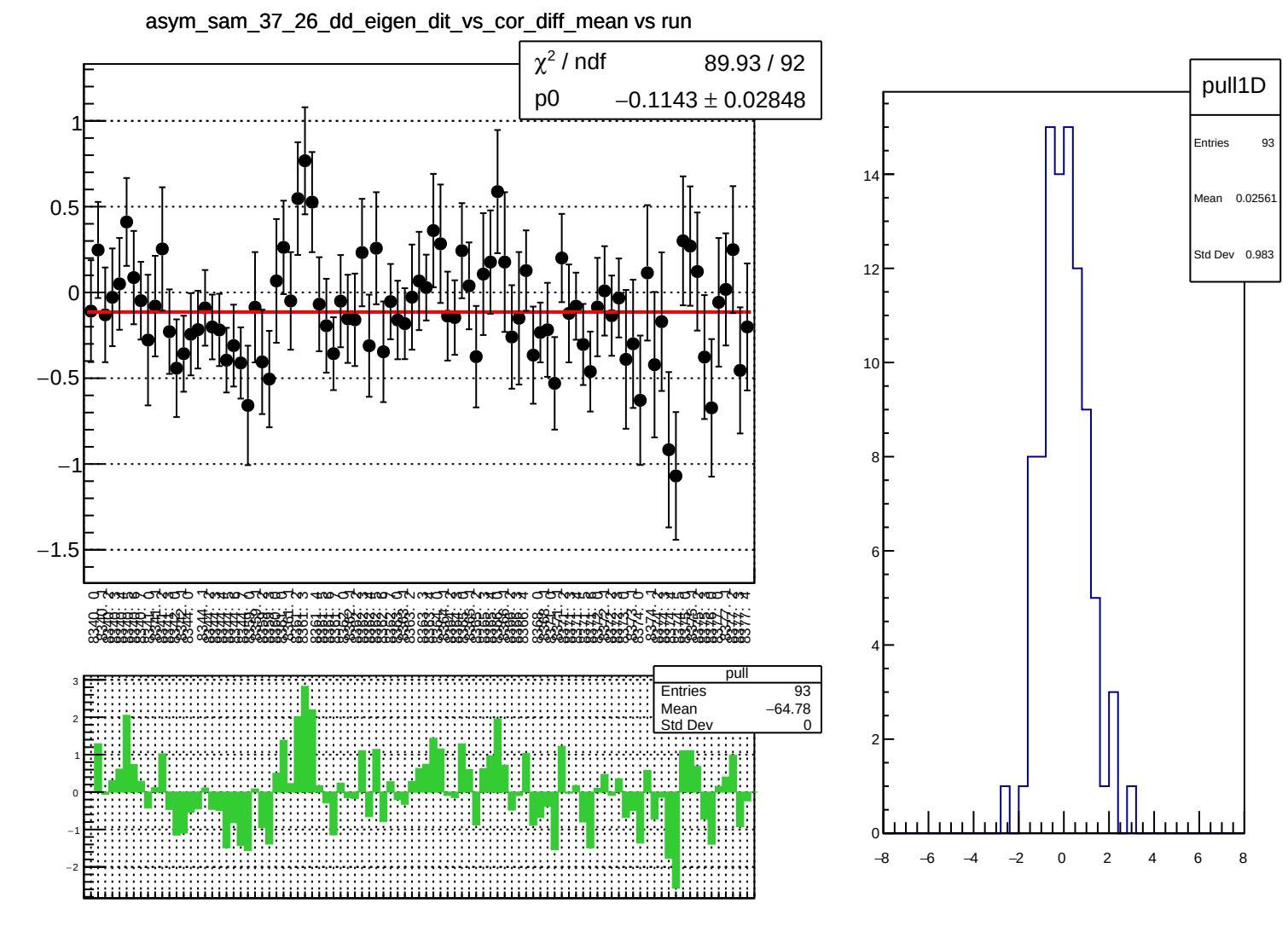

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.847e+04 / 92
p0 26.75 ± 0.02014
45
40
35
30
25
20

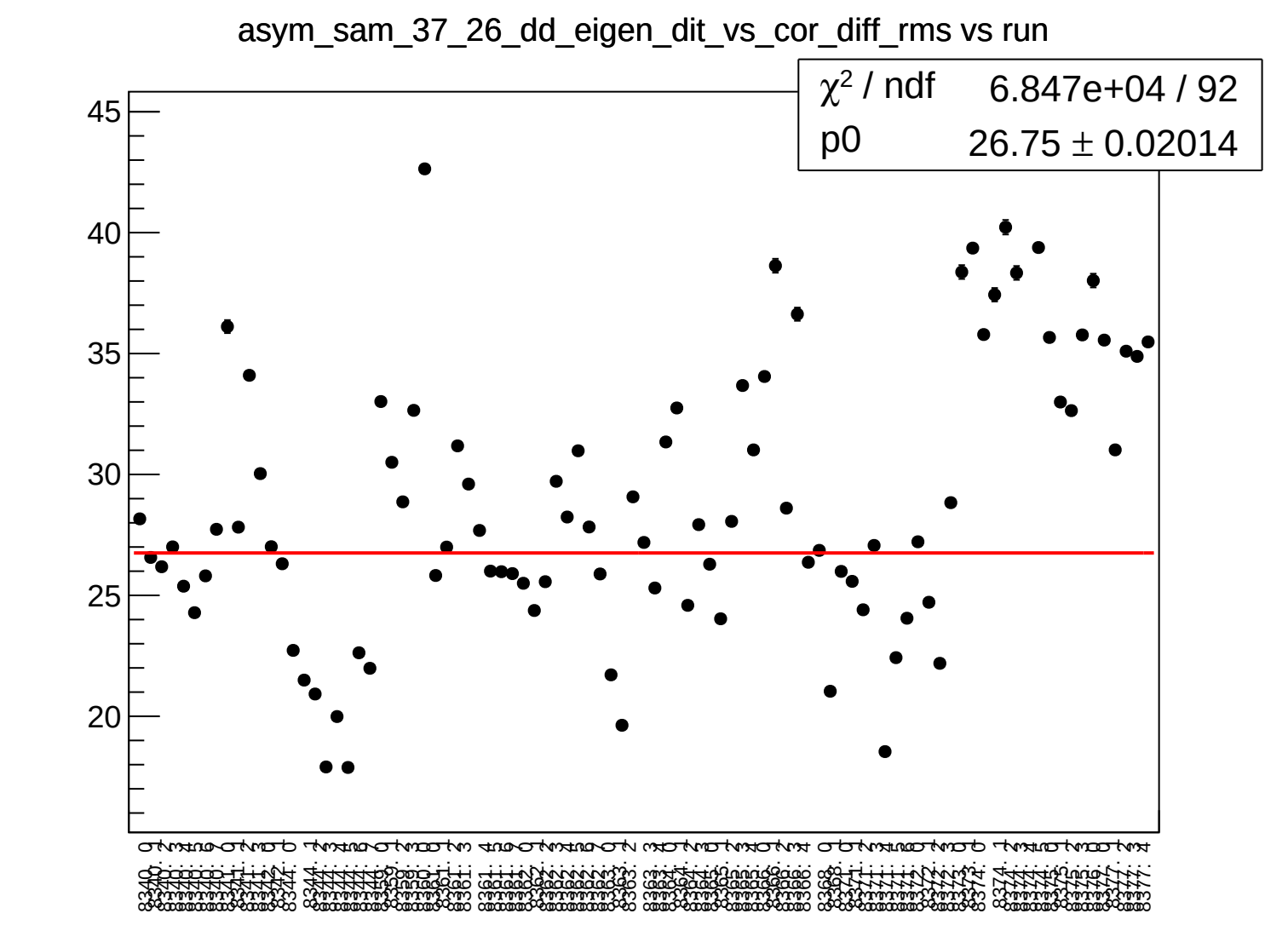

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 92
p0 −0.1143 ± 0.02848
pull
Entries 93
Mean −64.77
Std Dev 0
pull1D
Entries 93
Mean 0.02561
Std Dev 0.983

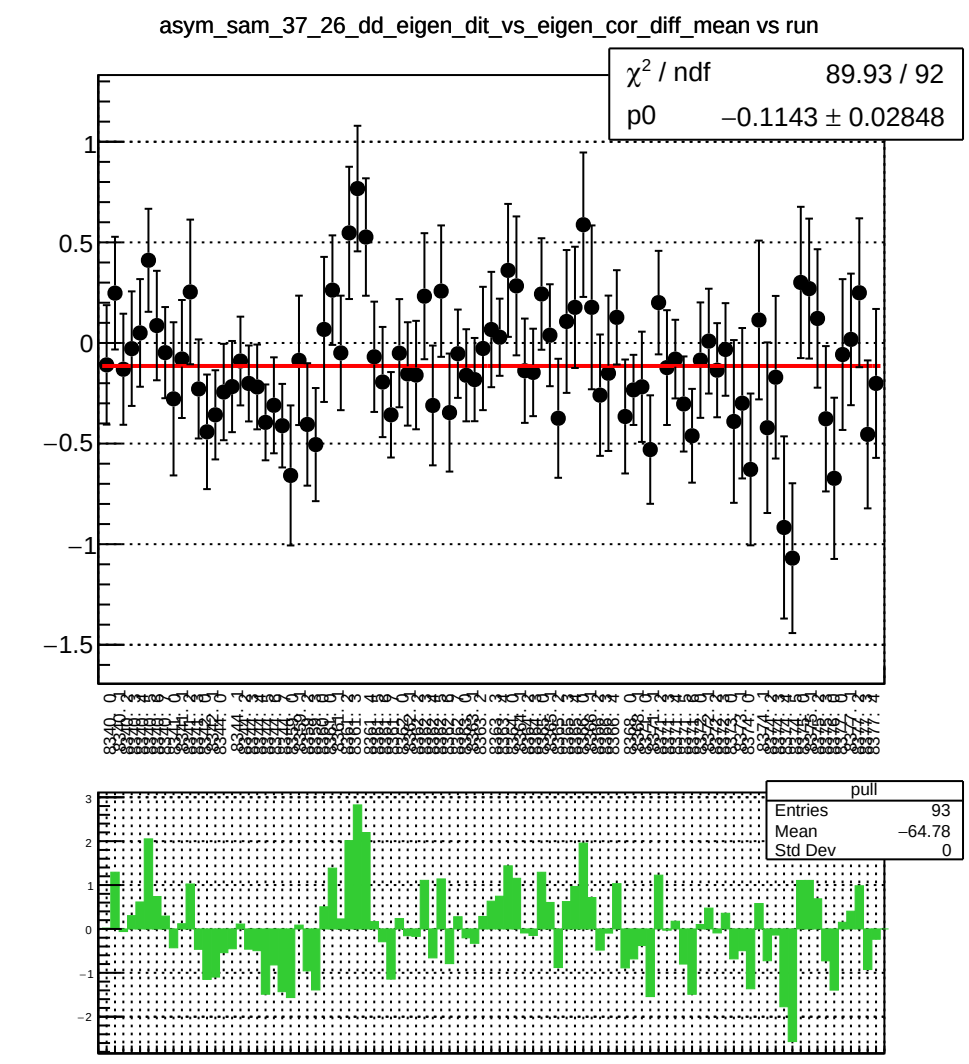

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.847e+04 / 92
p0 26.75 ± 0.02014
45
40
35
30
25
20

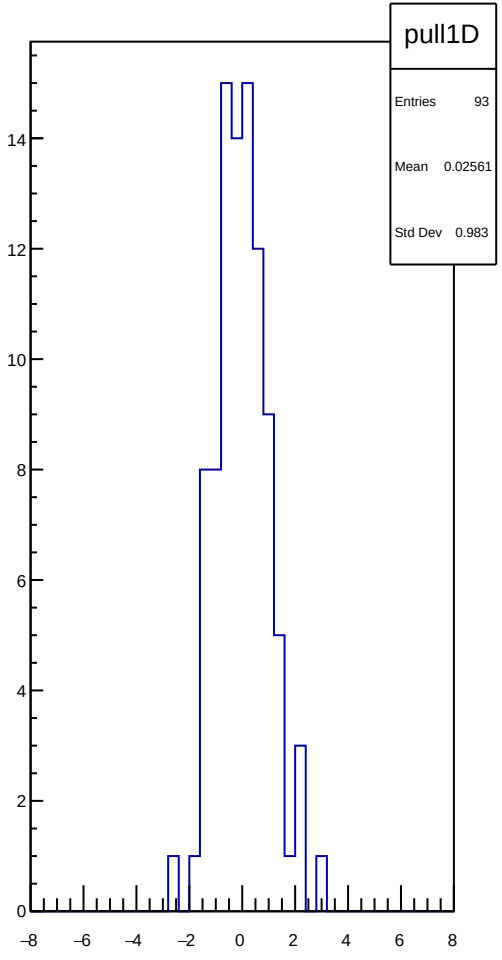

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 90.16 / 92
p0 −7.456e−07 ± 1.589e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 93
Mean 2495
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.001508
Std Dev 0.9846
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

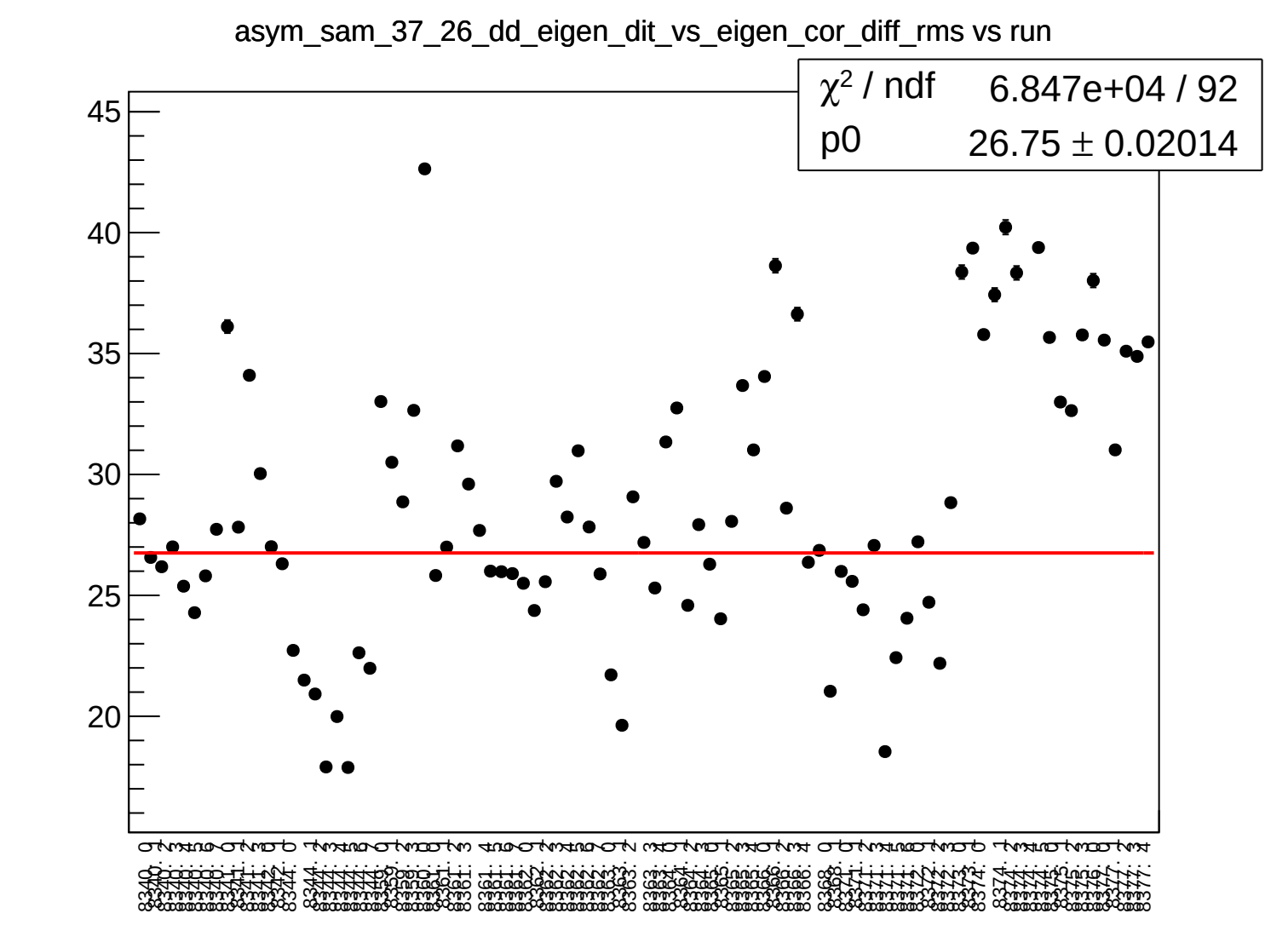

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.656e+04 / 92
p0 0.001489 ± 1.124e−06
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

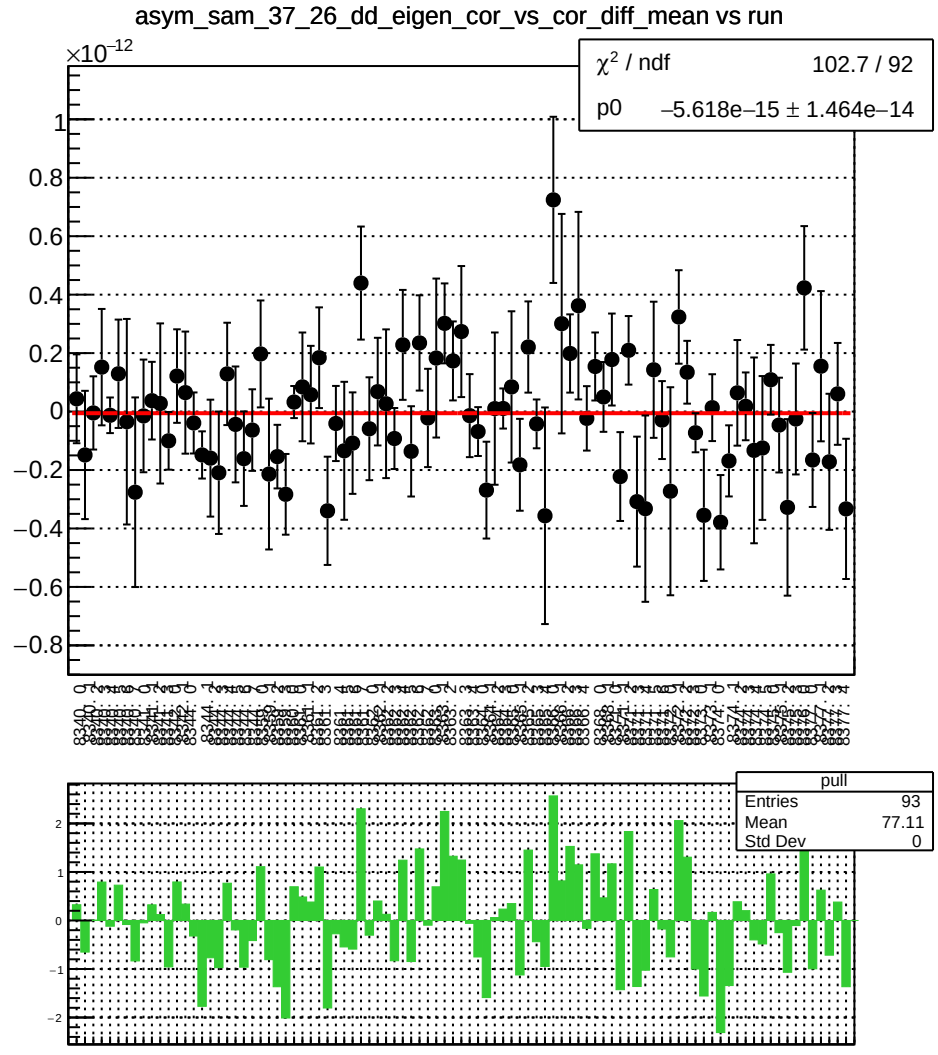

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 92
p0 −0.1143 ± 0.02848
pull
Entries 93
Mean −64.78
Std Dev 0
pull1D
Entries 93
Mean 0.02561
Std Dev 0.983

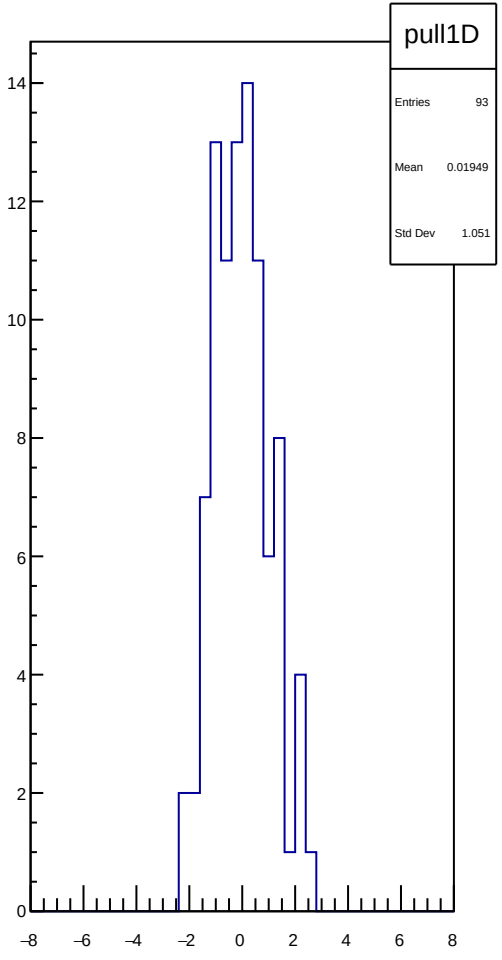

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.847e+04 / 92
p0 26.75 ± 0.02014
45
40
35
30
25
20

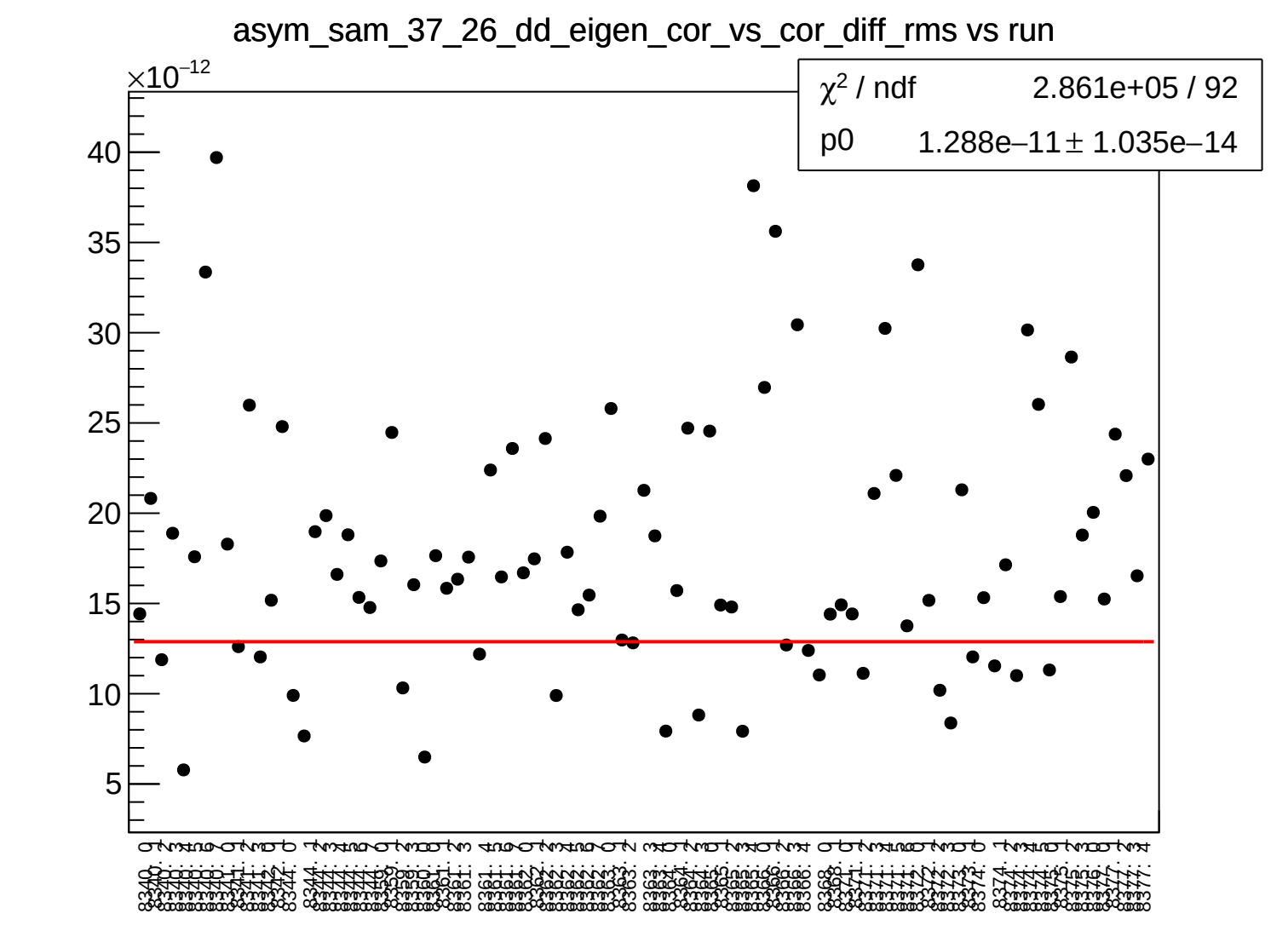

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 92
p0 −0.1143 ± 0.02848
pull
Entries 93
Mean −64.78
Std Dev 0

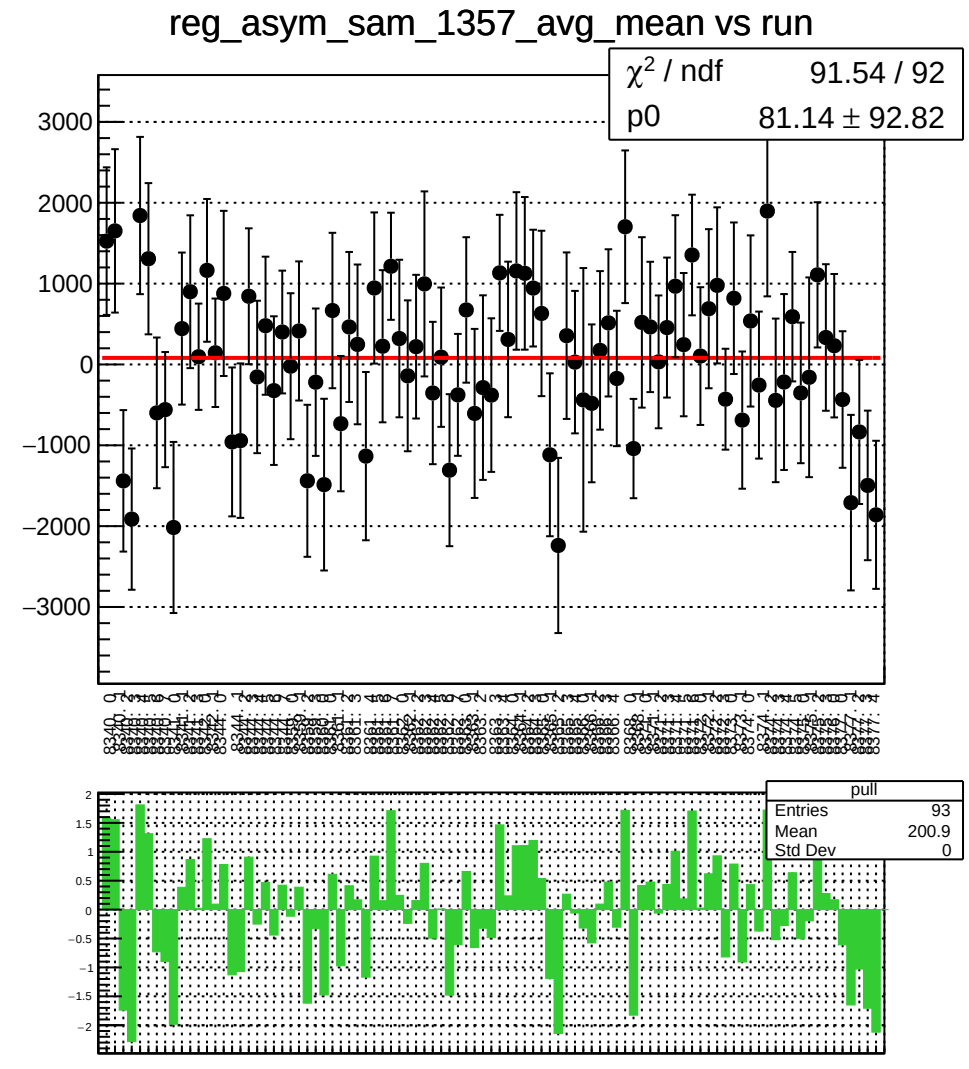

pull1D
Entries 93
Mean 0.02561
Std Dev 0.983

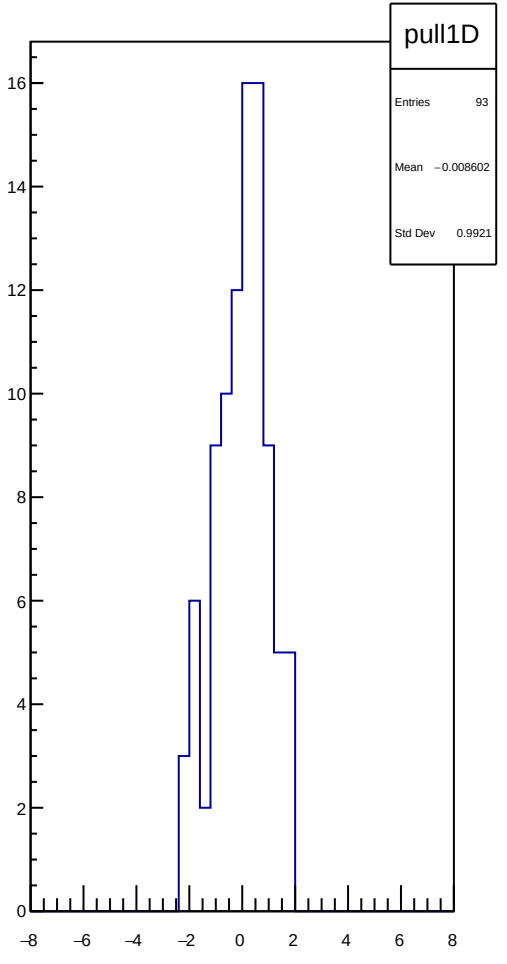

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.847e+04 / 92
p0 26.75 ± 0.02014
45
40
35
30
25
20

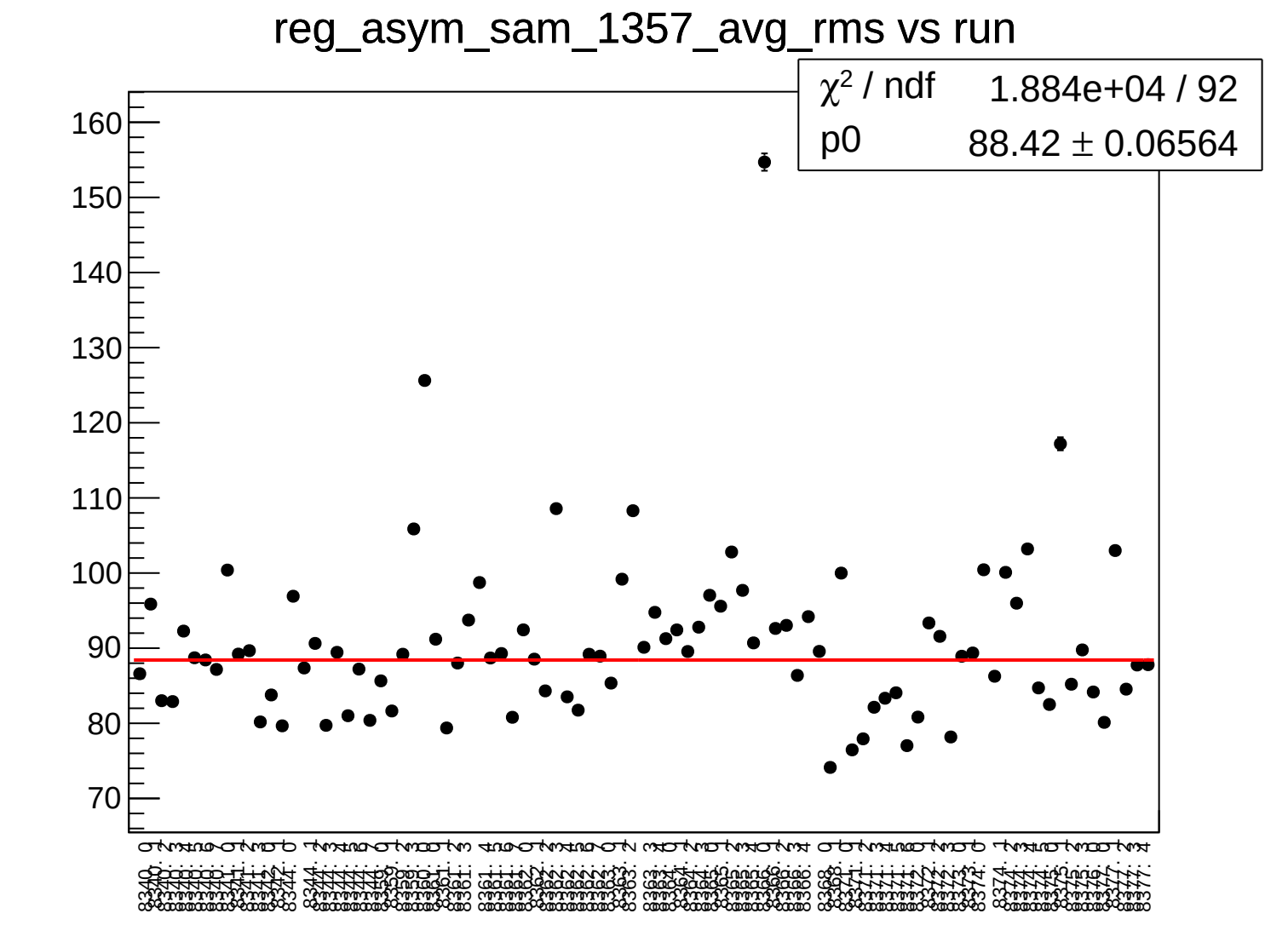

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 92
p0 −5.618e−15 ± 1.464e−14
pull
Entries 93
Mean 77.11
Std Dev 0

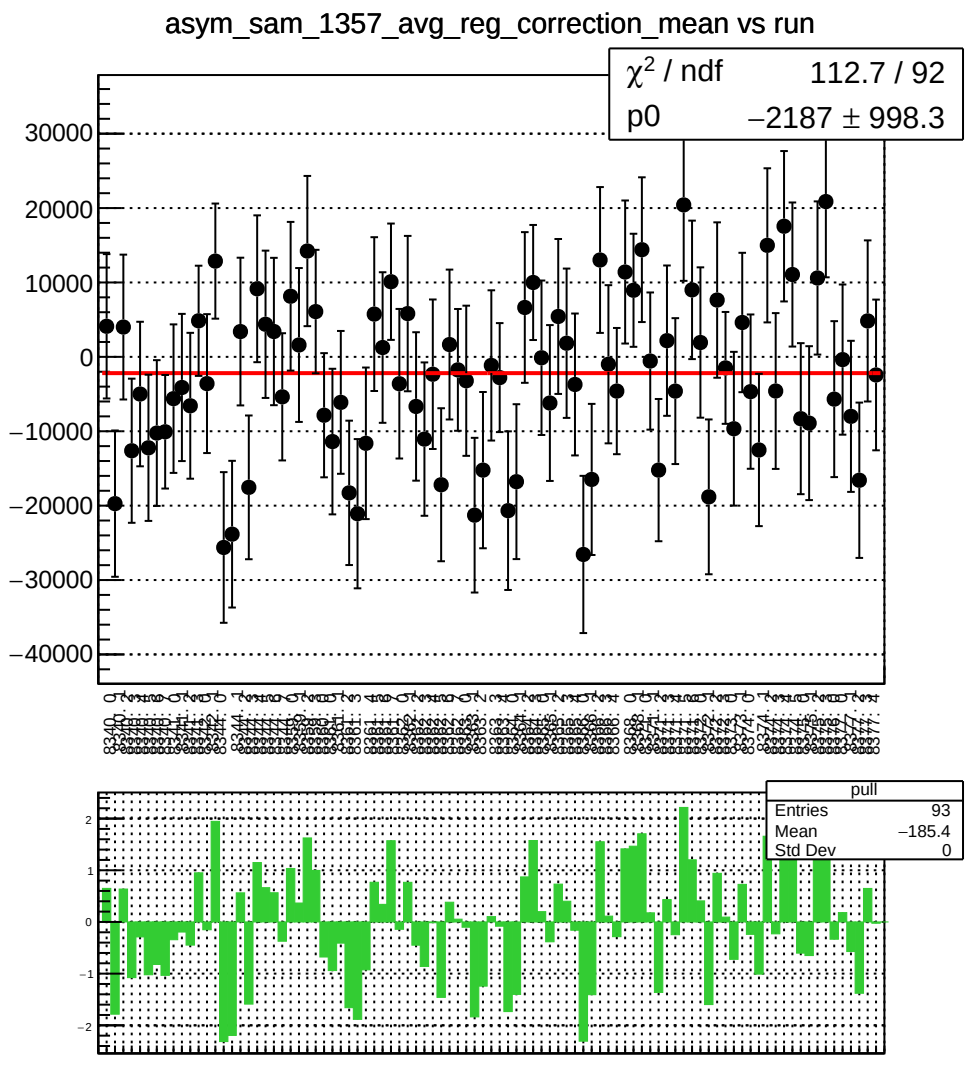

pull1D
Entries 93
Mean 0.01949
Std Dev 1.051

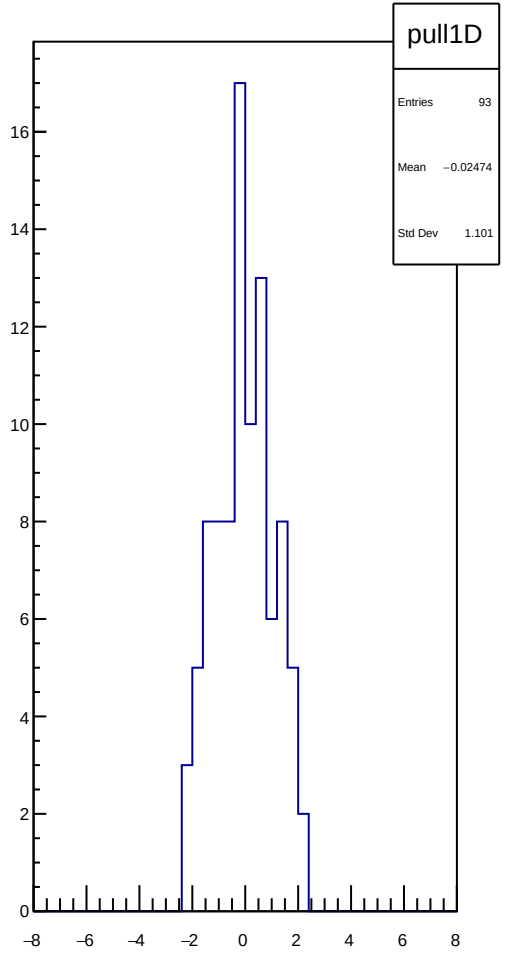

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 2.861e+05 / 92
p0 1.288e−11 ± 1.035e−14
40
35
30
25
20
15
10
5

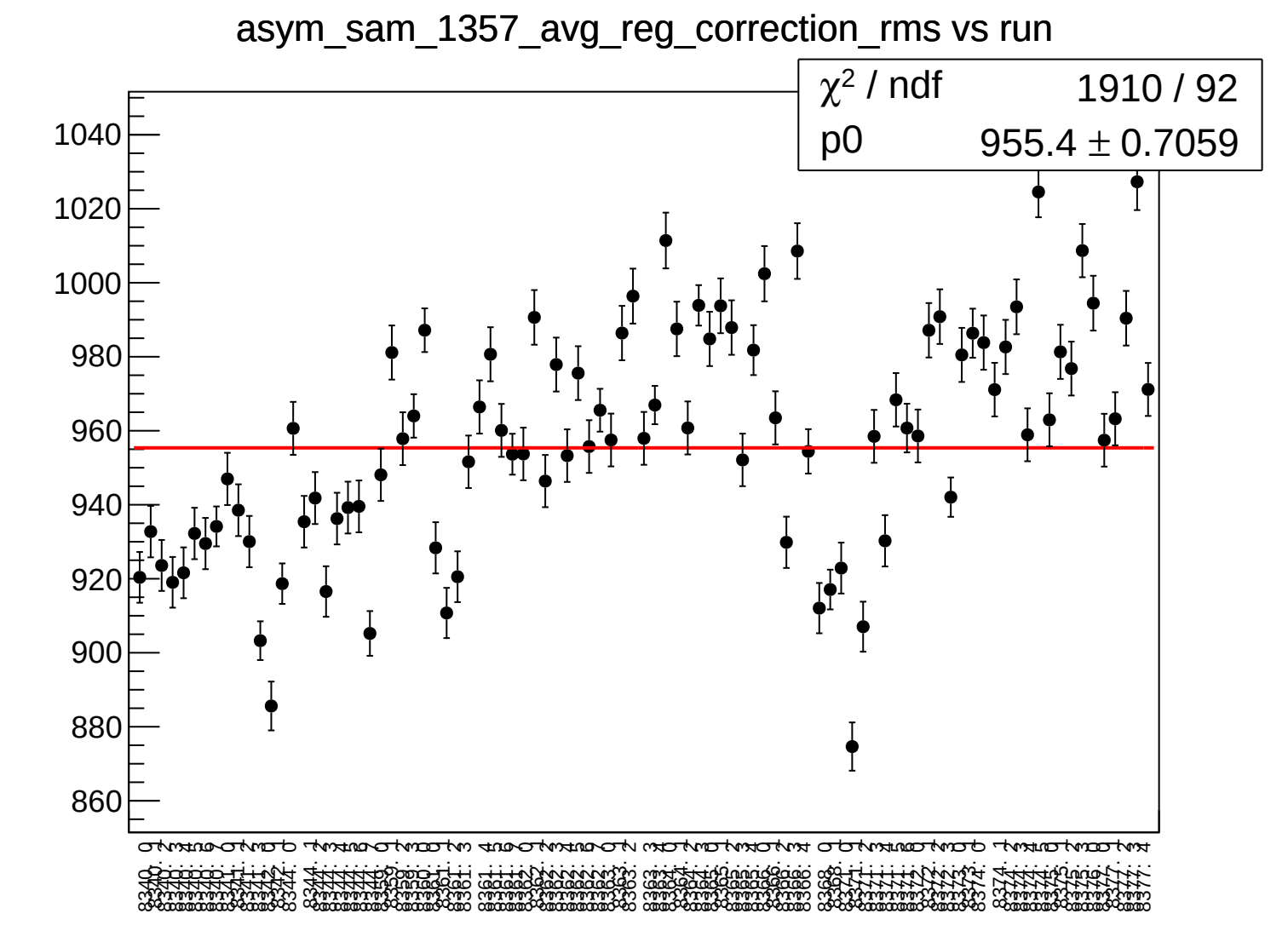

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 91.54 / 92
p0 81.14 ± 92.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 200.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

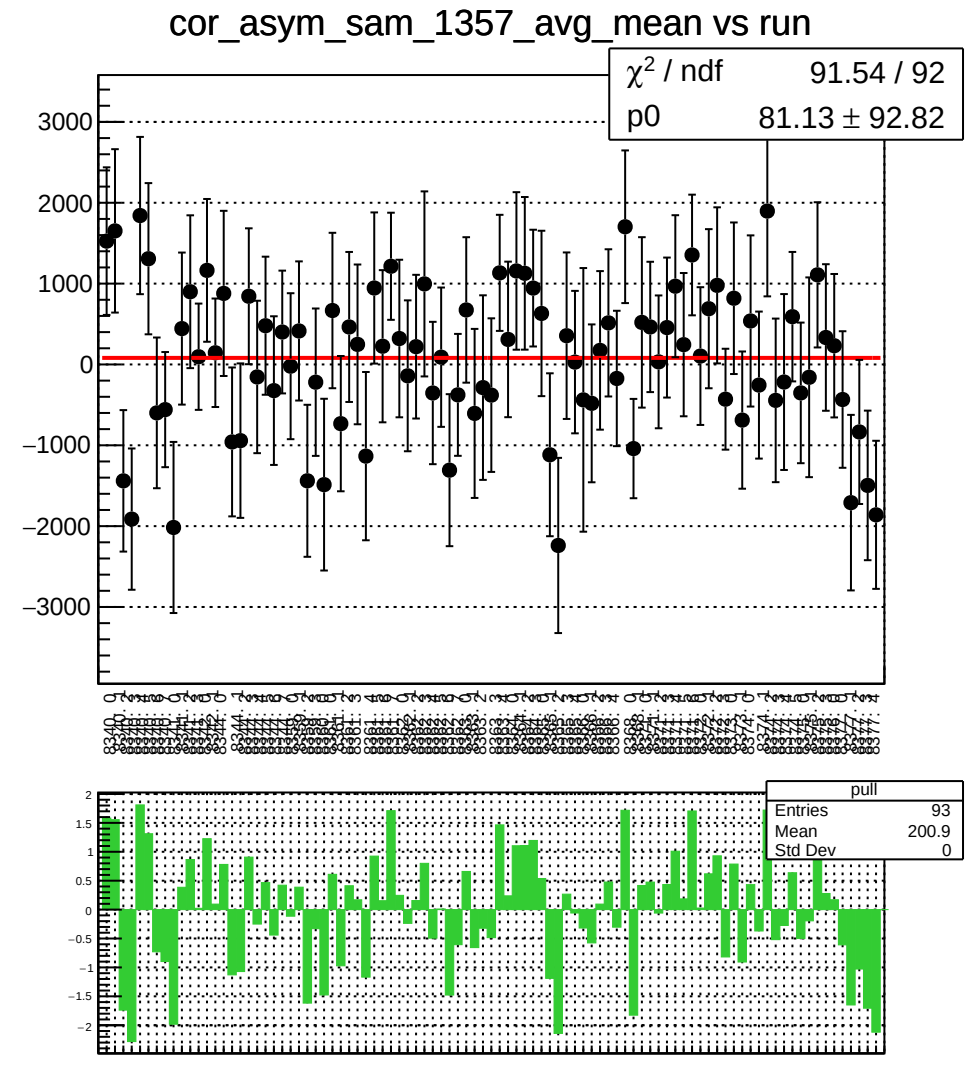

pull1D
Entries 93
Mean −0.008602
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

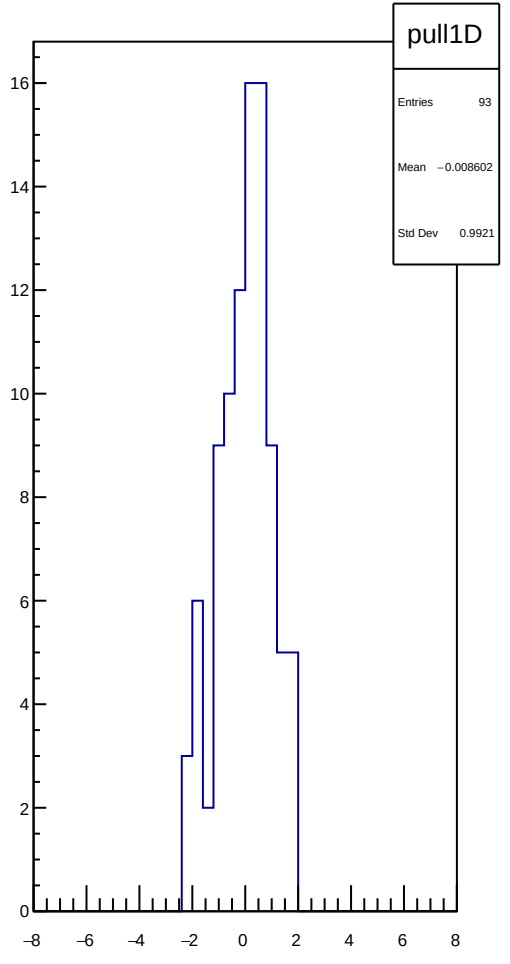

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.884e+04 / 92
p0 88.42 ± 0.06564
160
150
140
130
120
110
100
90
80
70

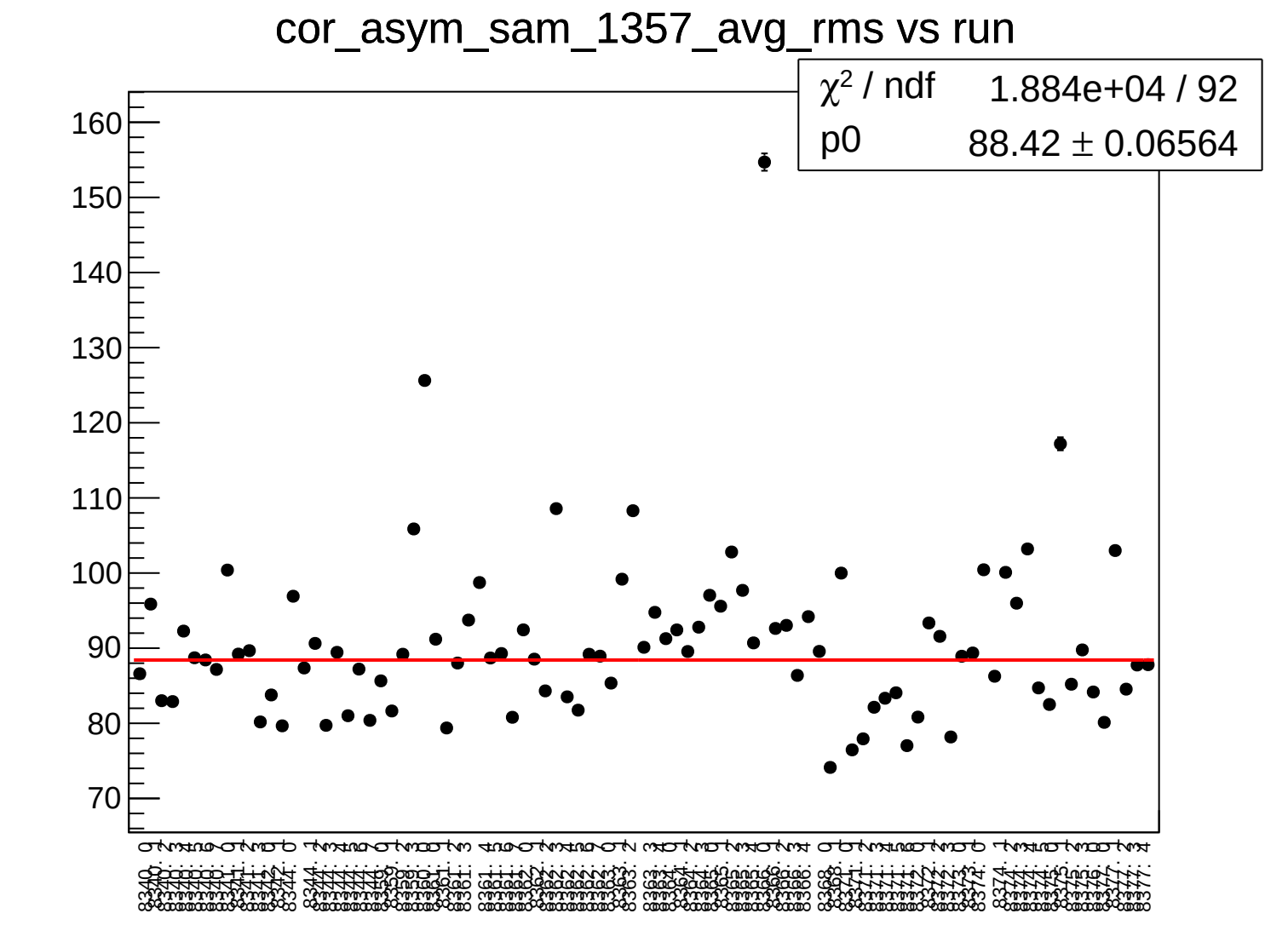

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2187 ± 998.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −185.4
Std Dev 0
2
1
0
−1
−2

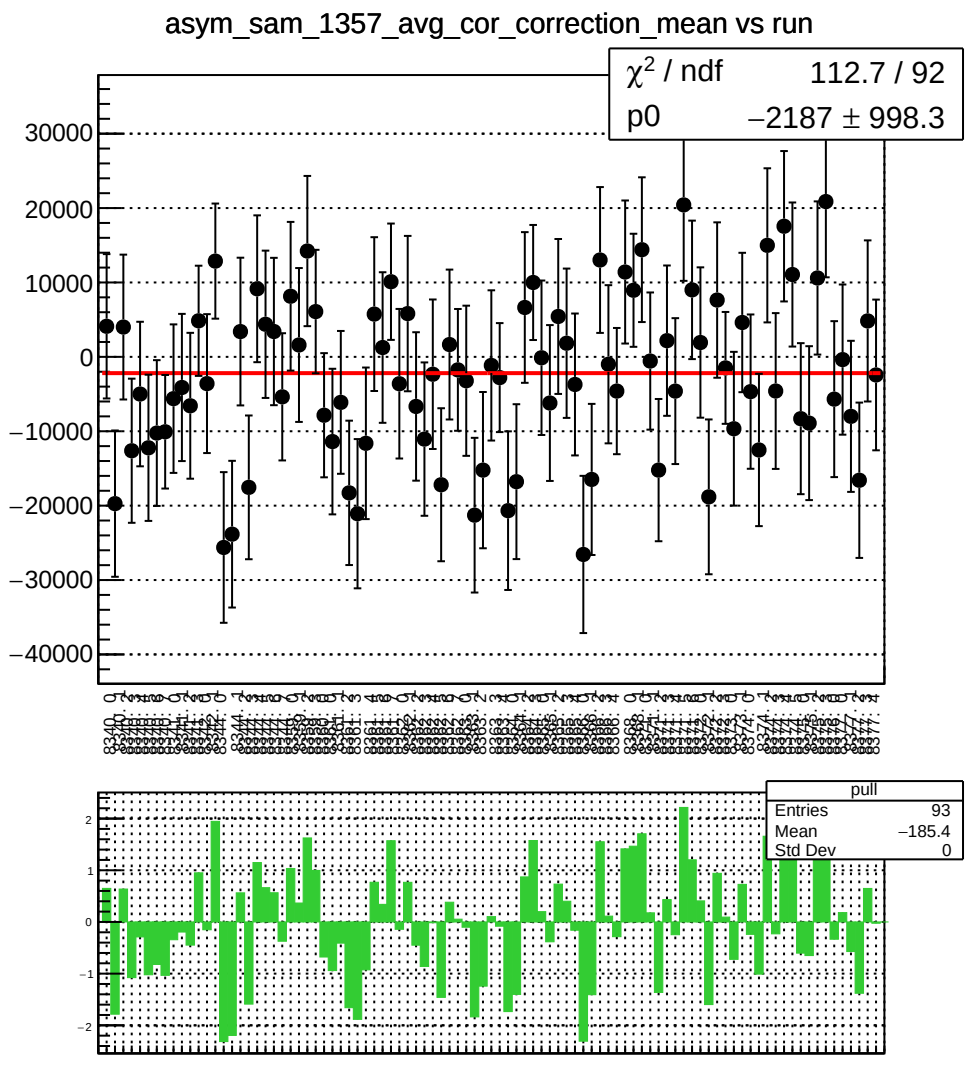

pull1D
Entries 93
Mean −0.02474
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

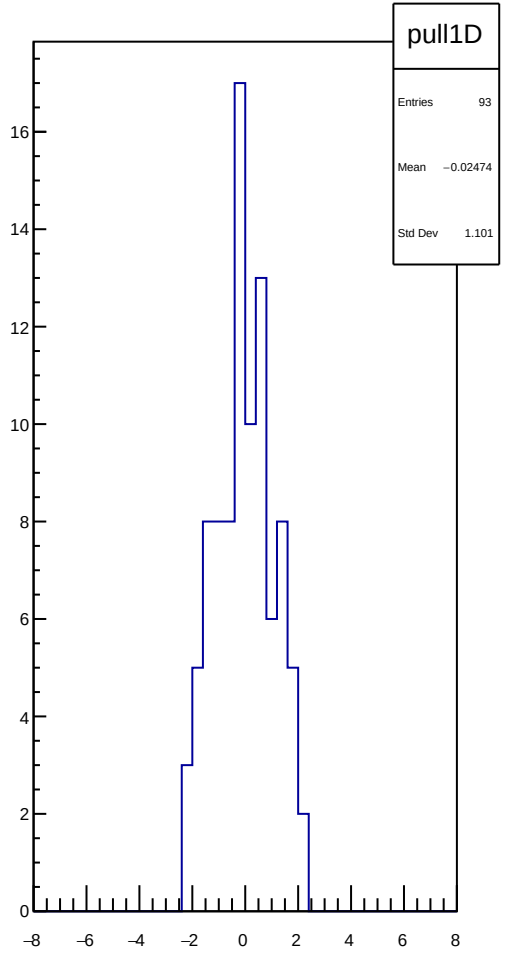

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1910 / 92
p0 955.4 ± 0.7059
1040
1020
1000
980
960
940
920
900
880
860

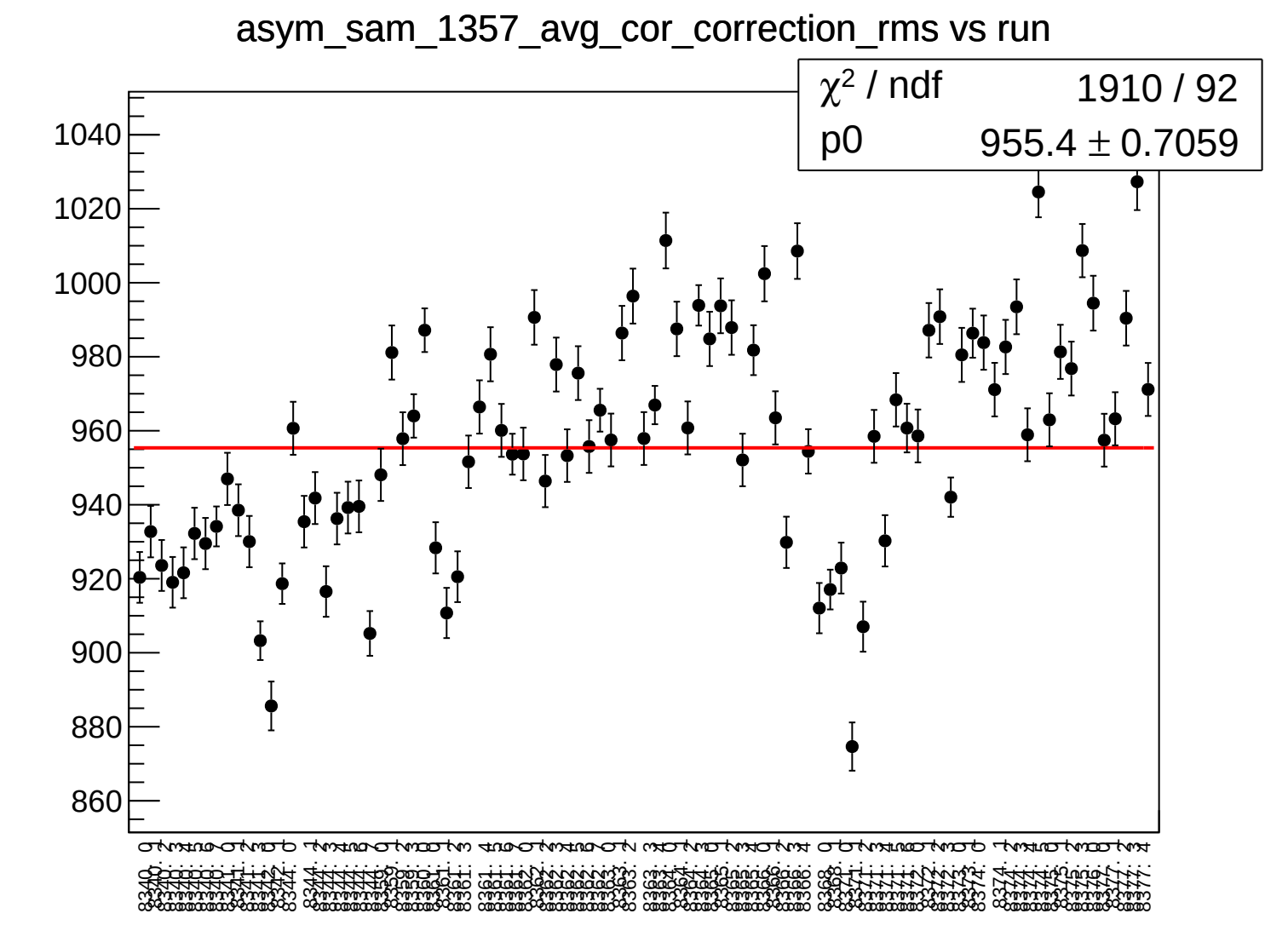

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 91.54 / 92
p0 81.13 ± 92.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 200.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

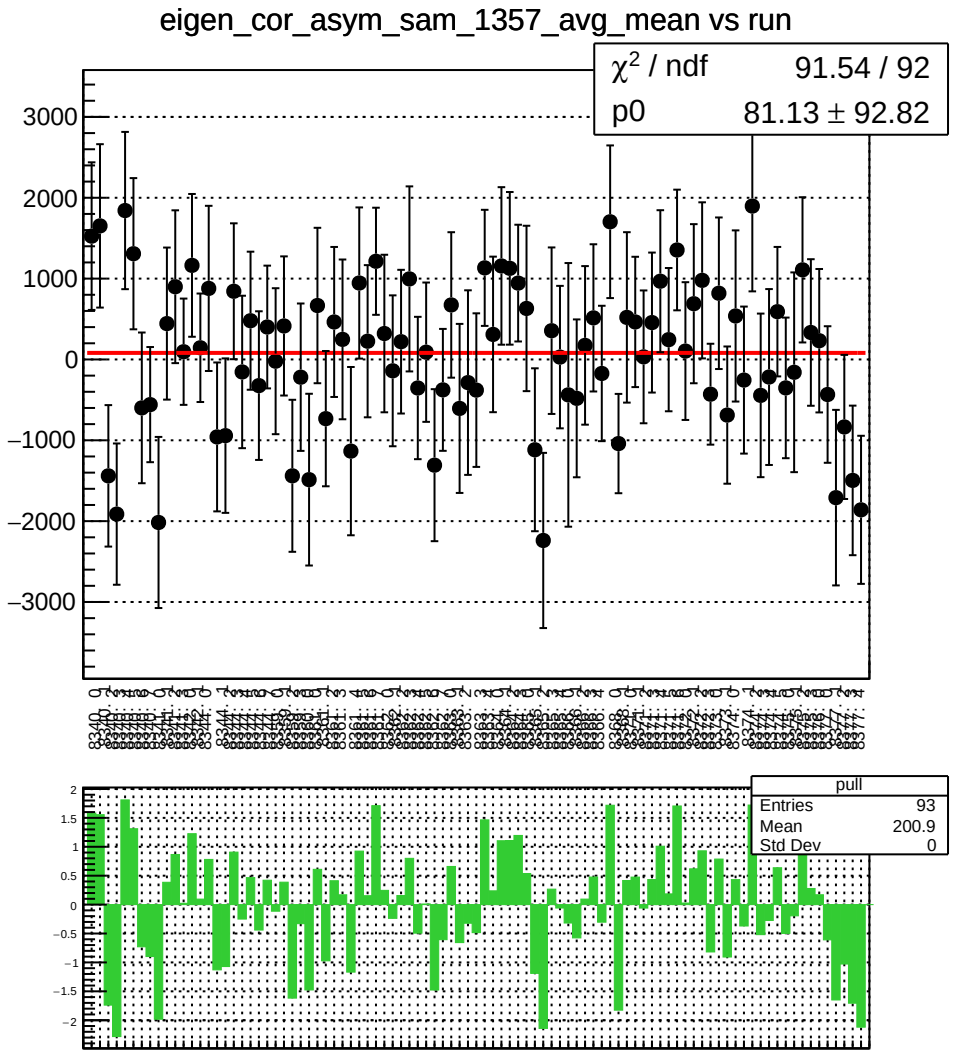

pull1D
Entries 93
Mean −0.008602
Std Dev 0.9921
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

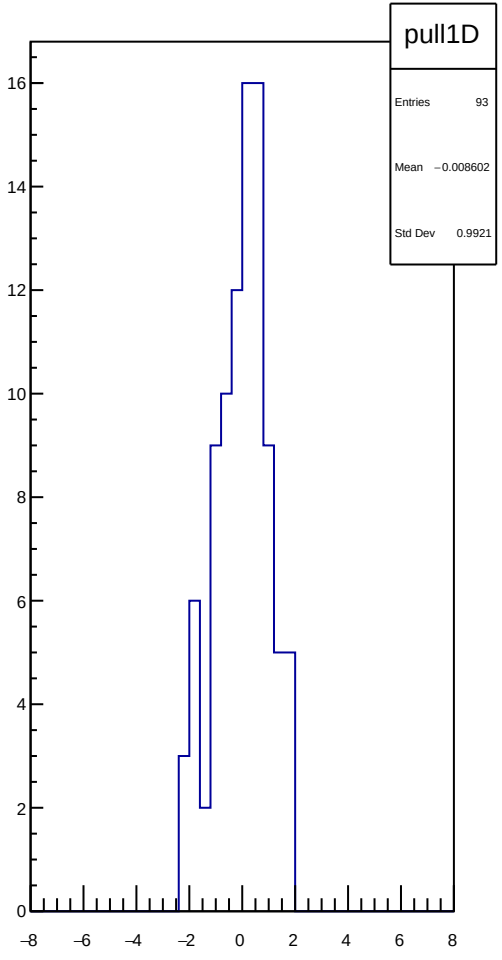

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.884e+04 / 92
p0 88.42 ± 0.06564
160
150
140
130
120
110
100
90
80
70

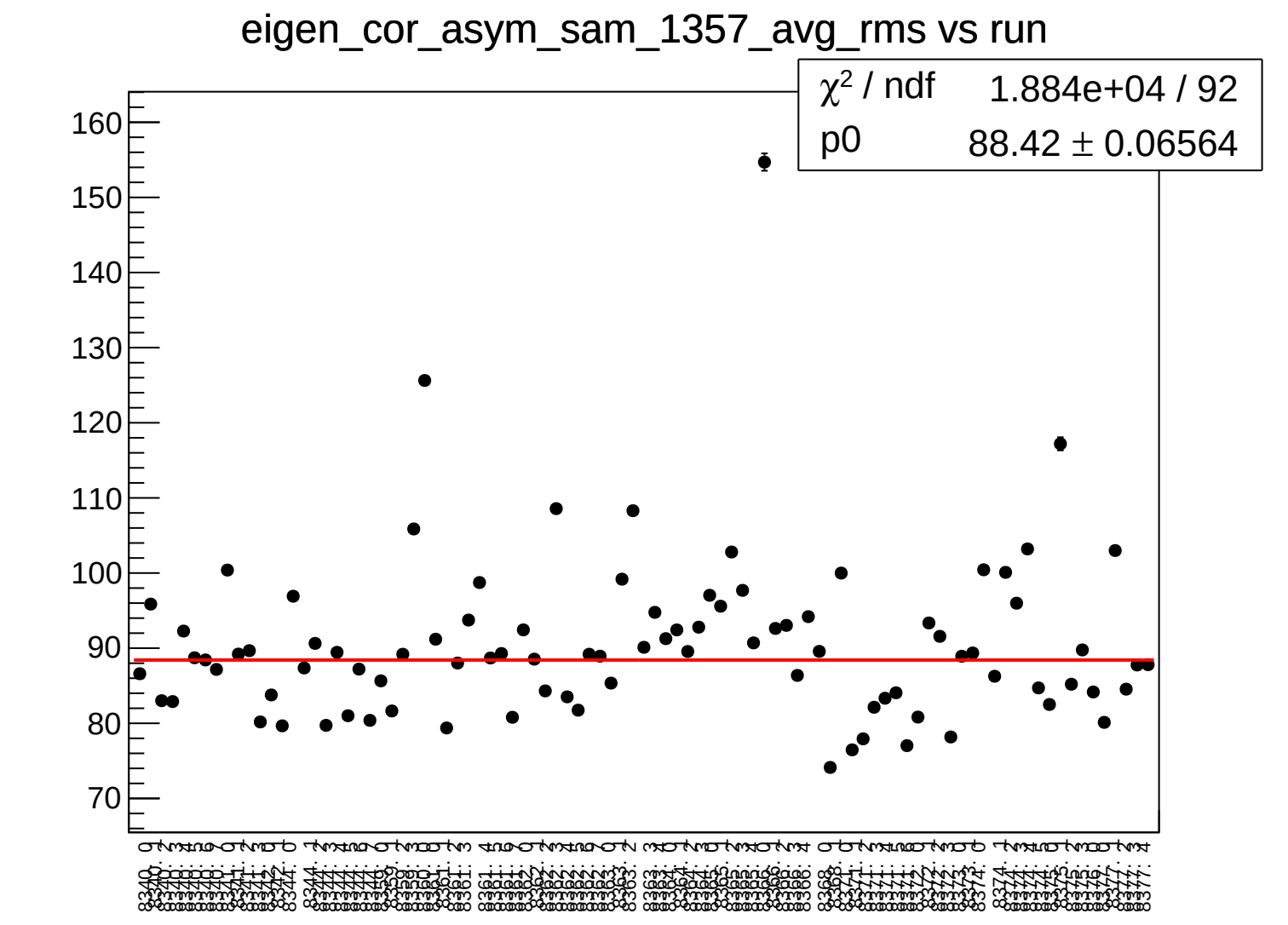

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2187 ± 998.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −185.4
Std Dev 0
2
1
0
−1
−2

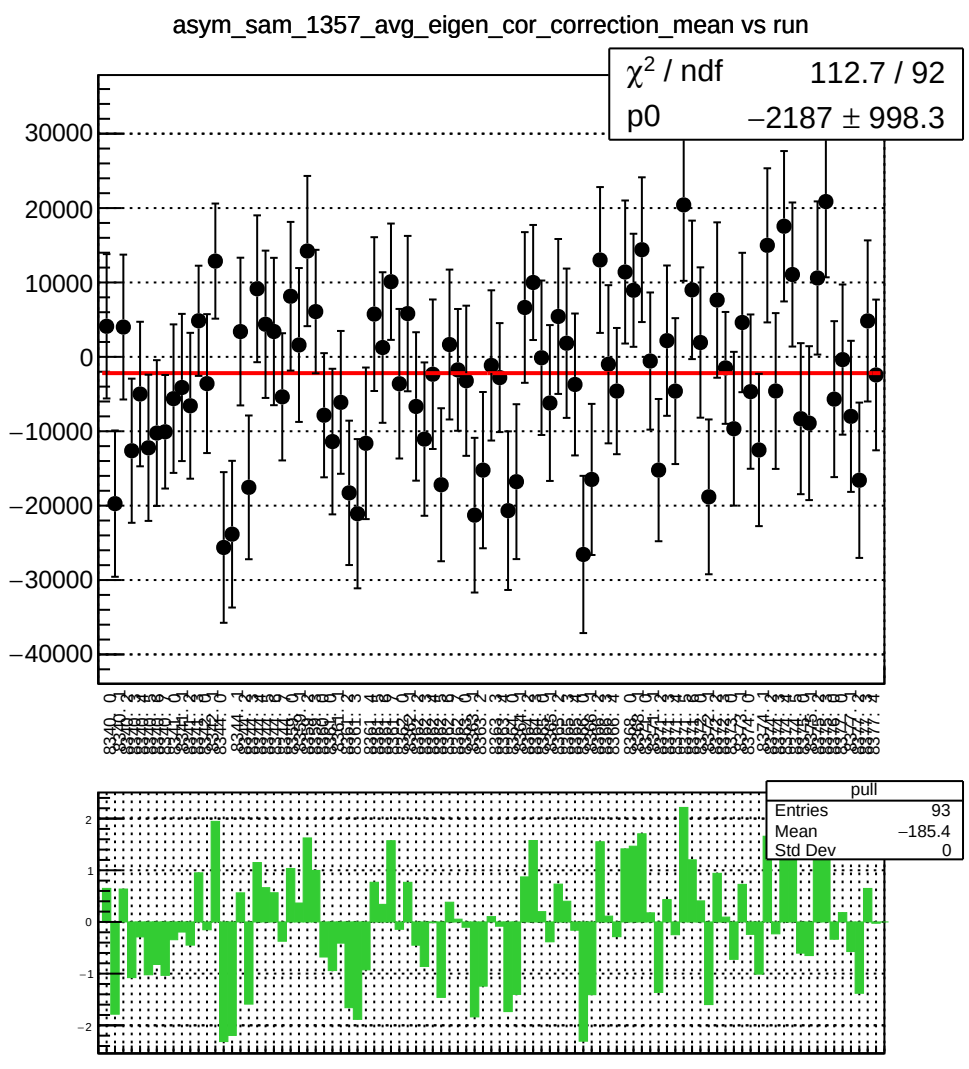

pull1D
Entries 93
Mean −0.02474
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

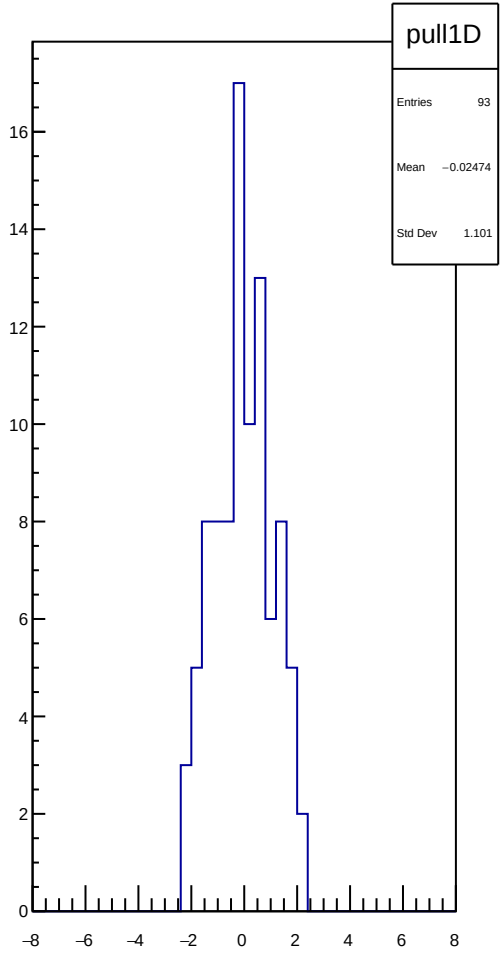

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1910 / 92
p0 955.4 ± 0.7059
1040
1020
1000
980
960
940
920
900
880
860

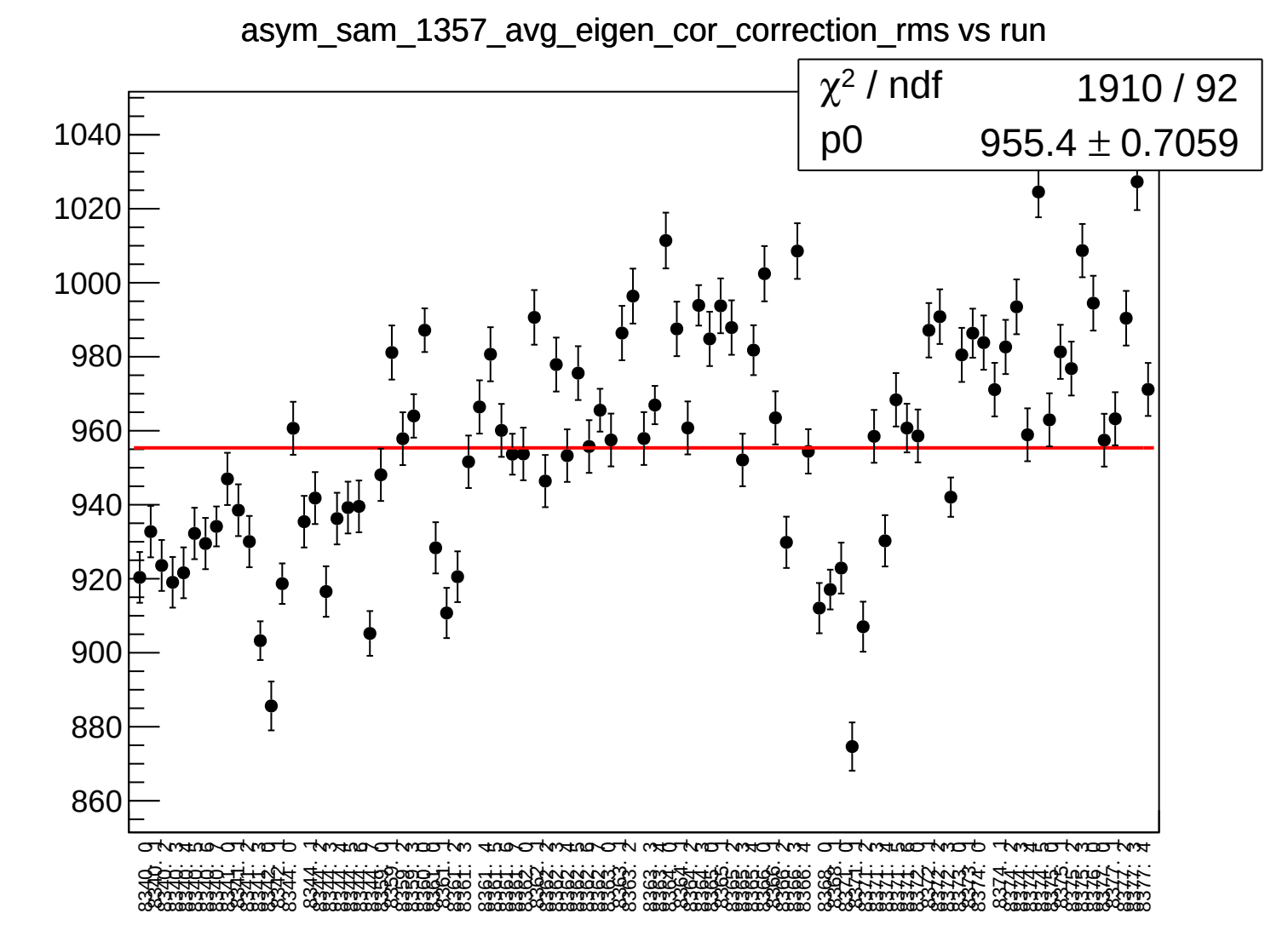

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 91.54 / 92
p0 81.13 ± 92.82
pull
Entries 93
Mean 200.9
Std Dev 0

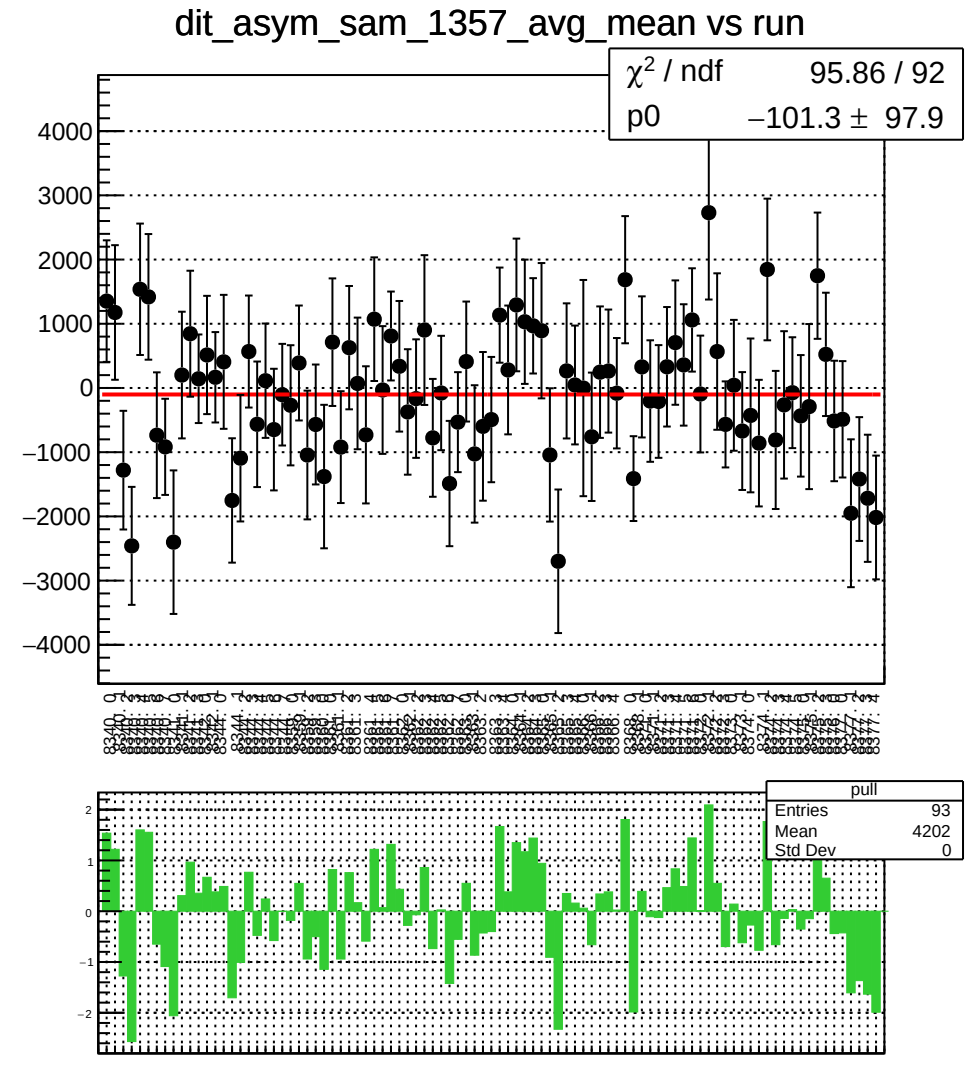

pull1D
Entries 93
Mean −0.008602
Std Dev 0.9921

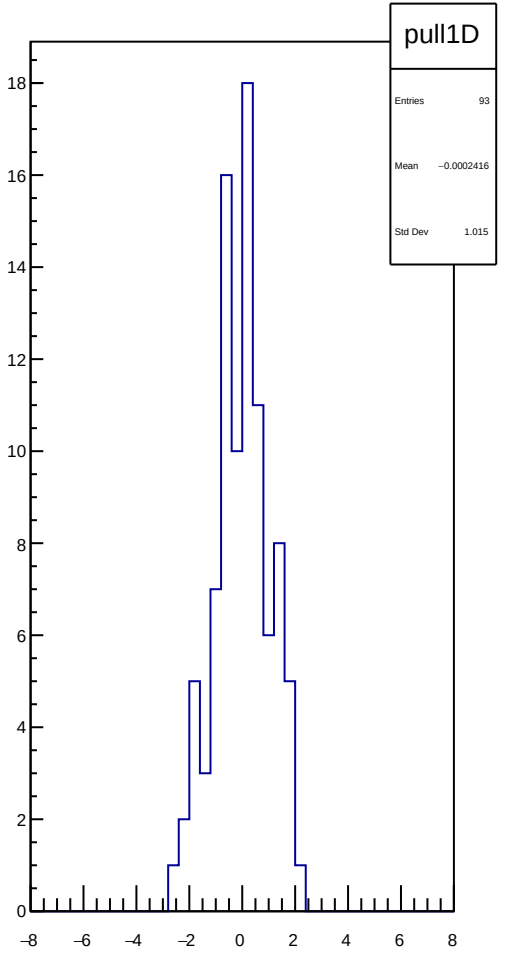

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.884e+04 / 92
p0 88.42 ± 0.06564
160
150
140
130
120
110
100
90
80
70

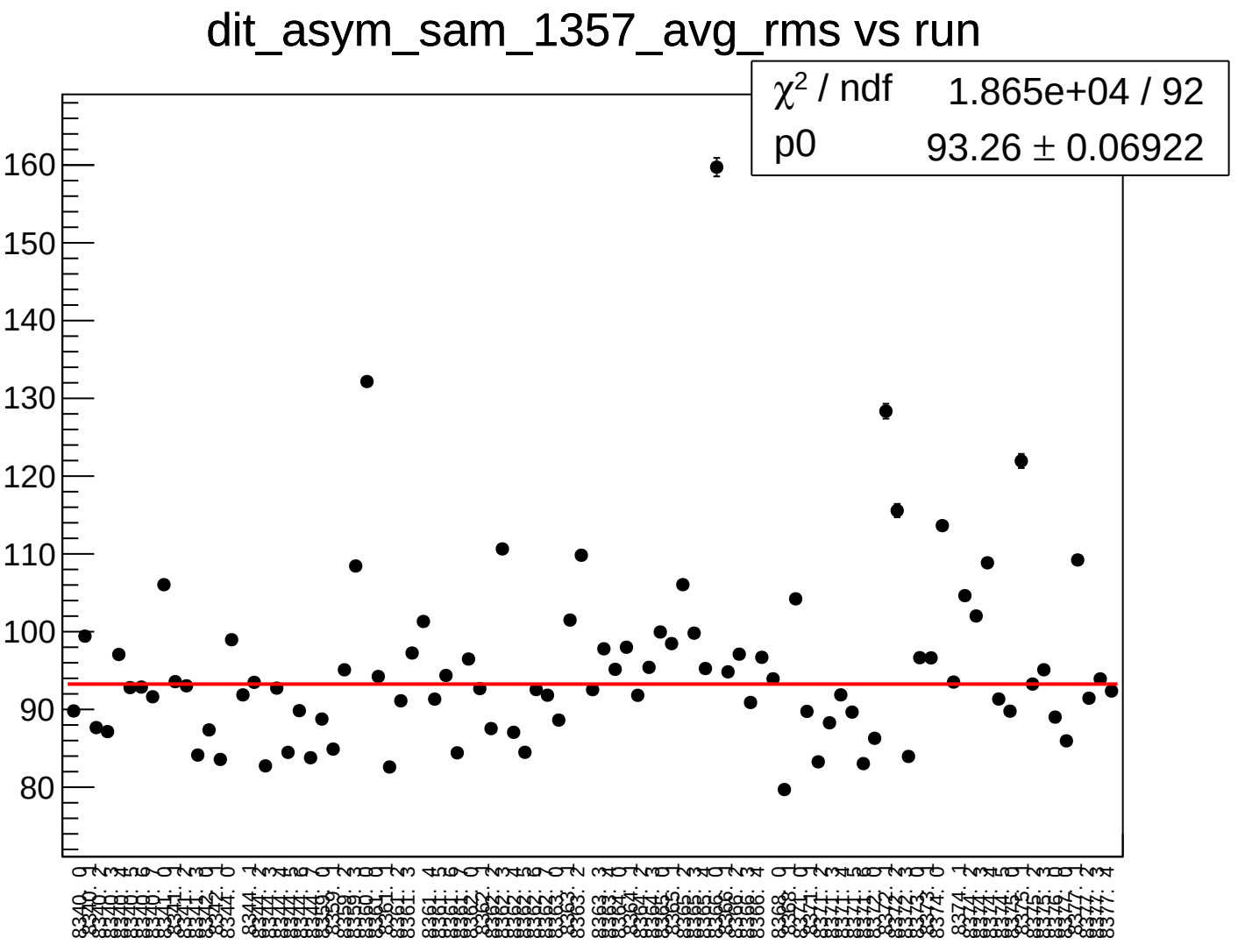

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2187 ± 998.3
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −185.4
Std Dev 0
2
1
0
−1
−2

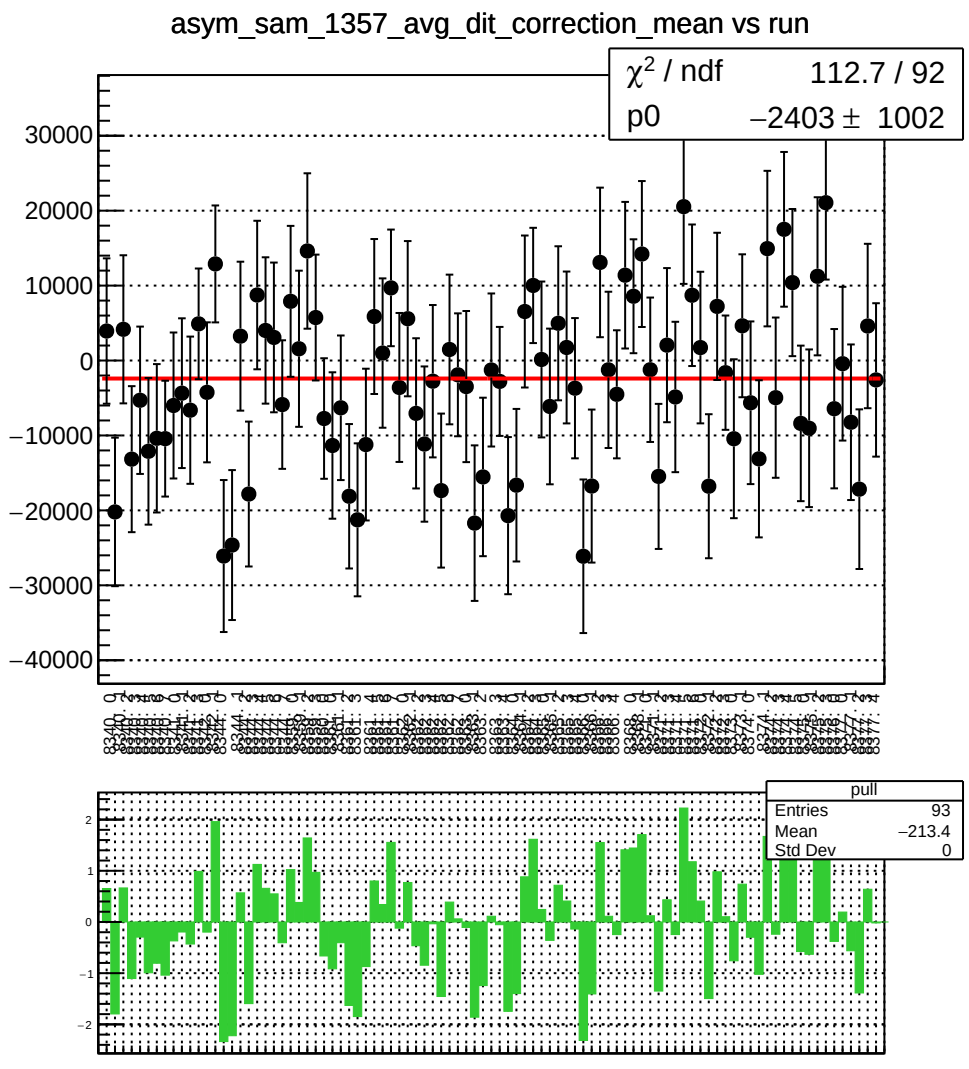

pull1D
Entries 93
Mean −0.02474
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

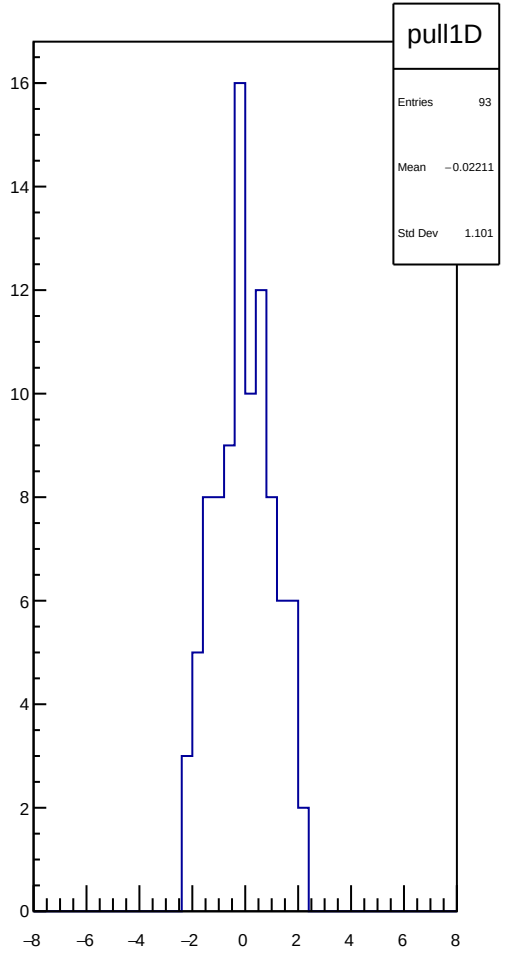

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1910 / 92
p0 955.4 ± 0.7059
1040
1020
1000
980
960
940
920
900
880
860

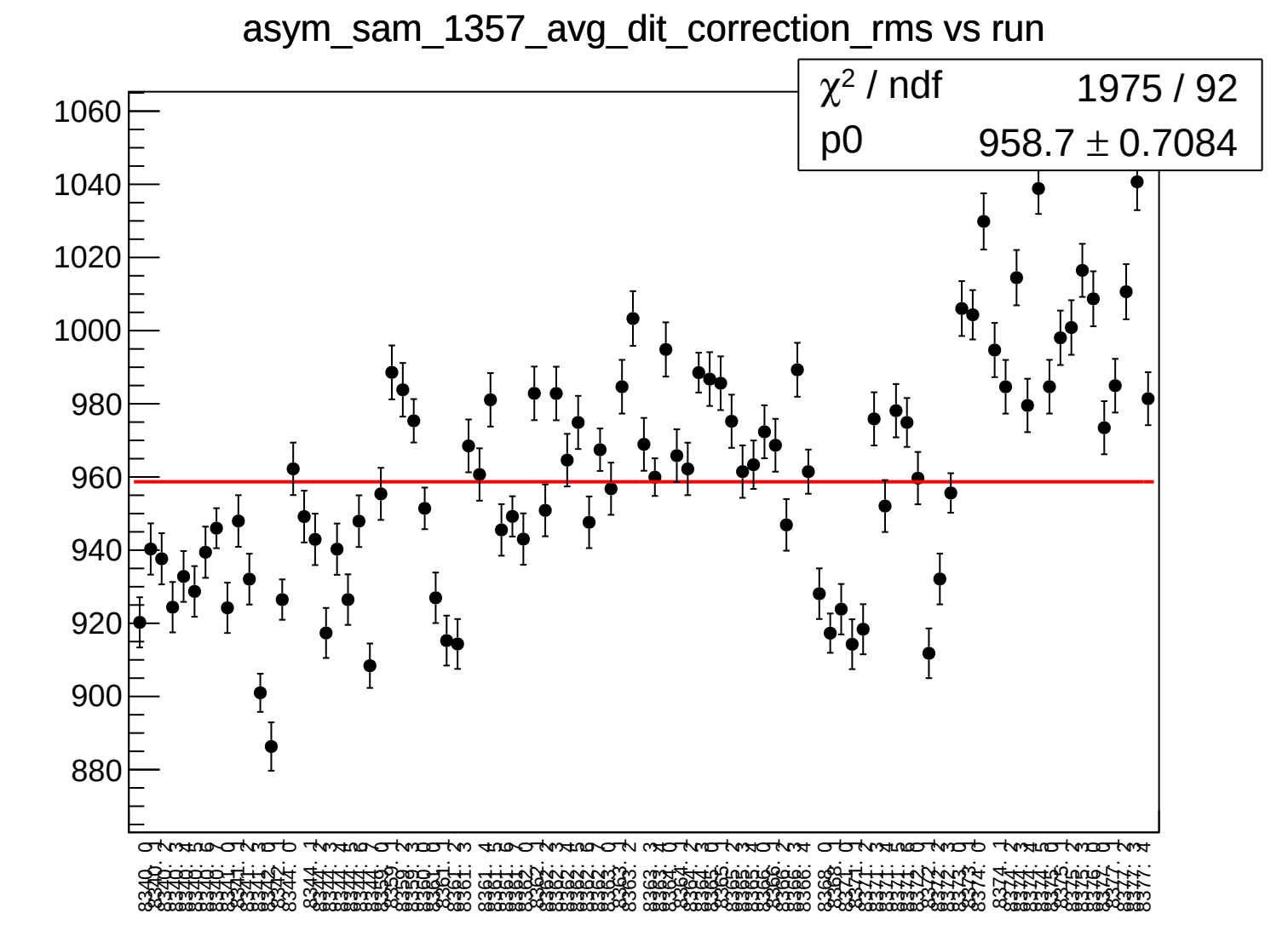

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 95.86 / 92
p0 −101.3 ± 97.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 4202
Std Dev 0
2
1
0
−1
−2

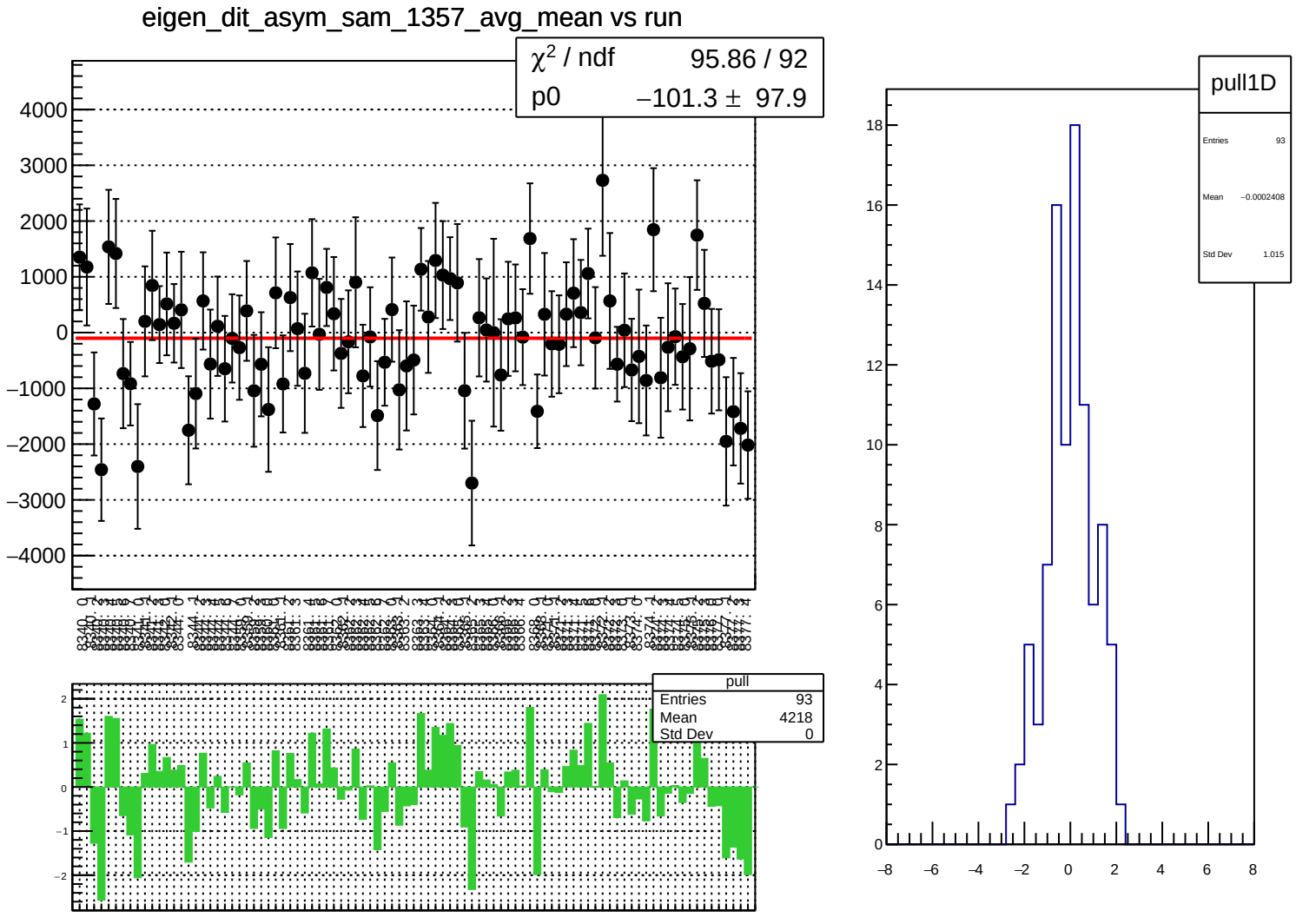

pull1D
Entries 93
Mean −0.0002416
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

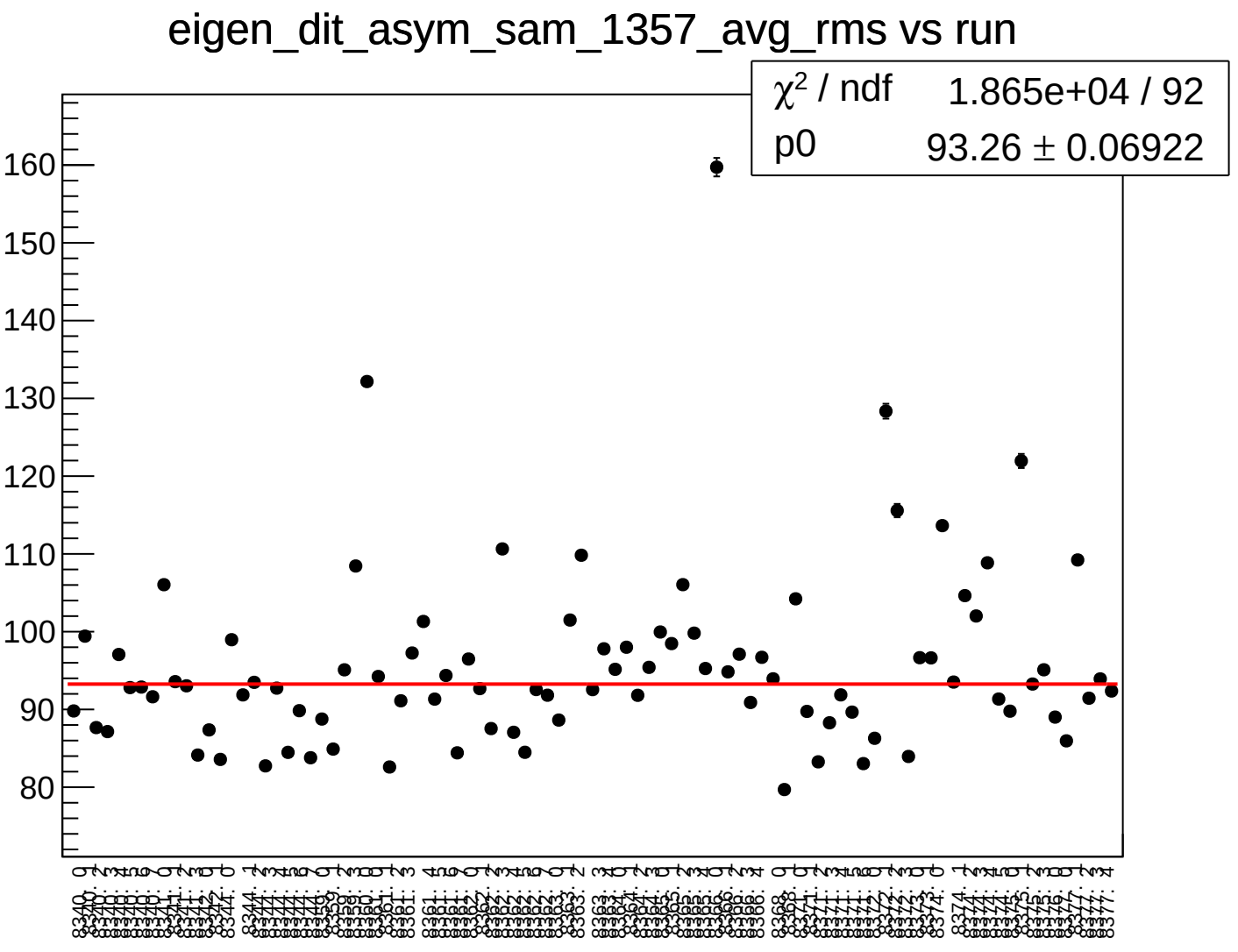

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.865e+04 / 92
p0 93.26 ± 0.06922
160
150
140
130
120
110
100
90
80

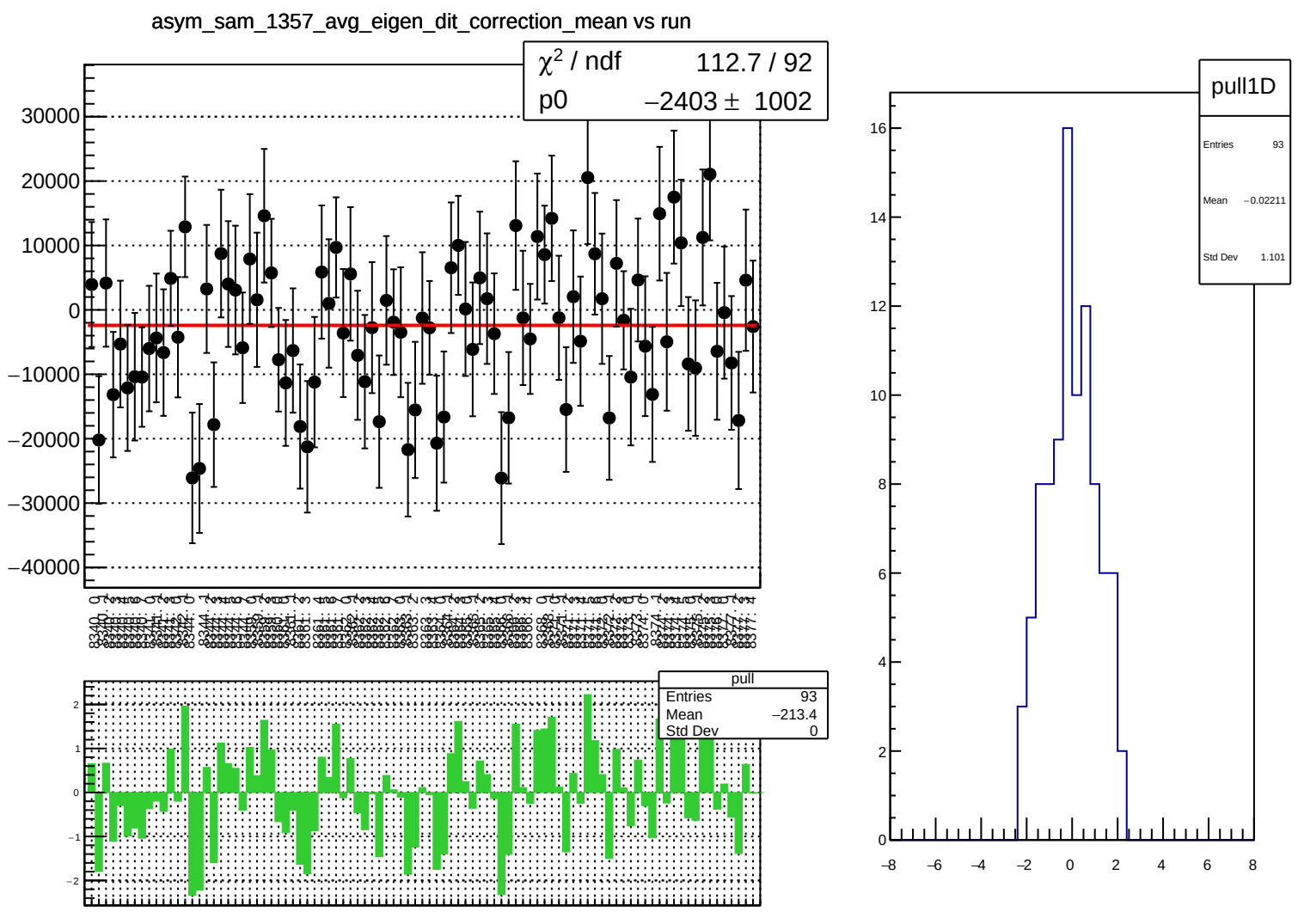

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2403 ± 1002
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −213.4
Std Dev 0
2
1
0
−1
−2

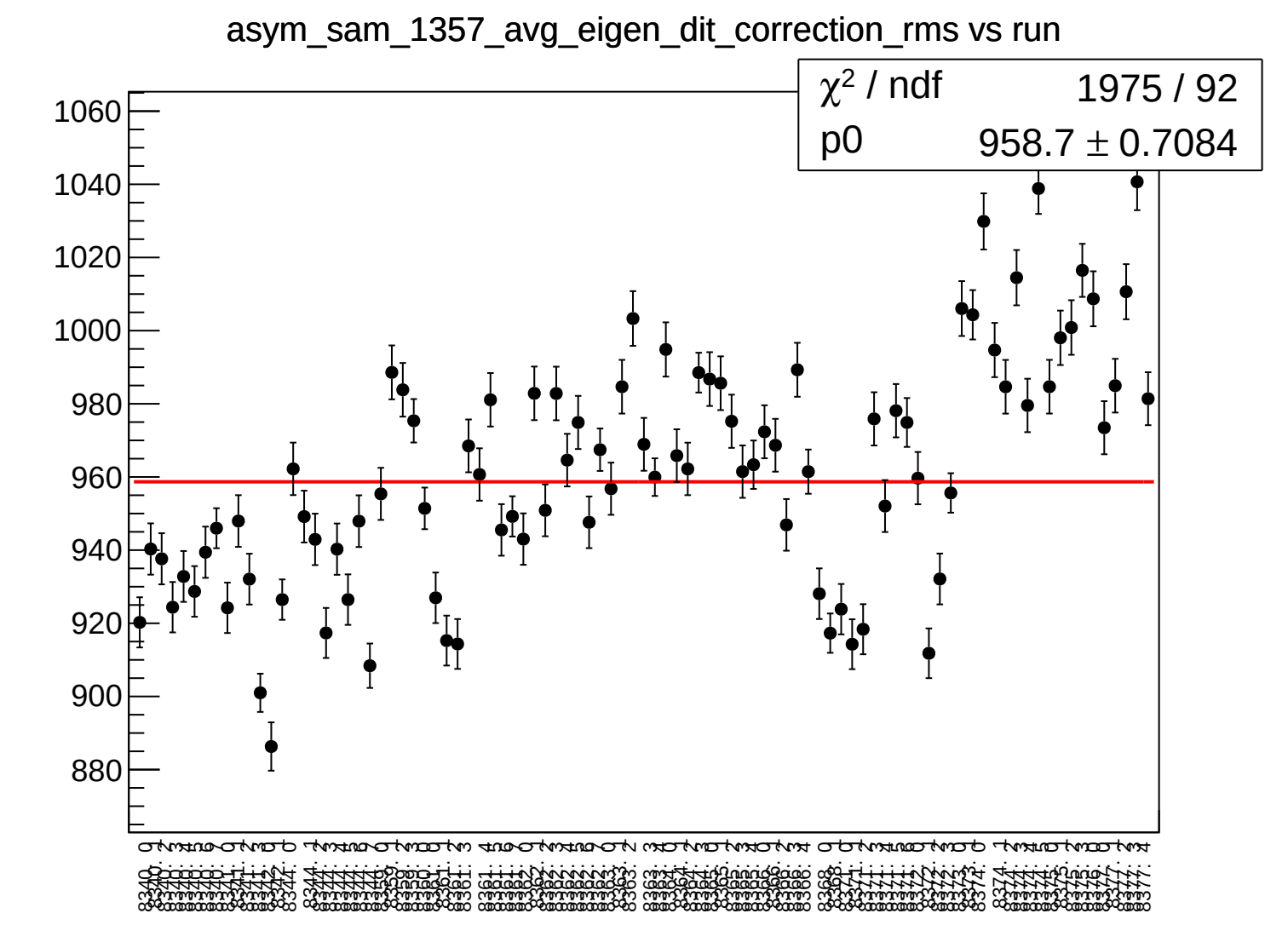

pull1D
Entries 93
Mean −0.02211
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

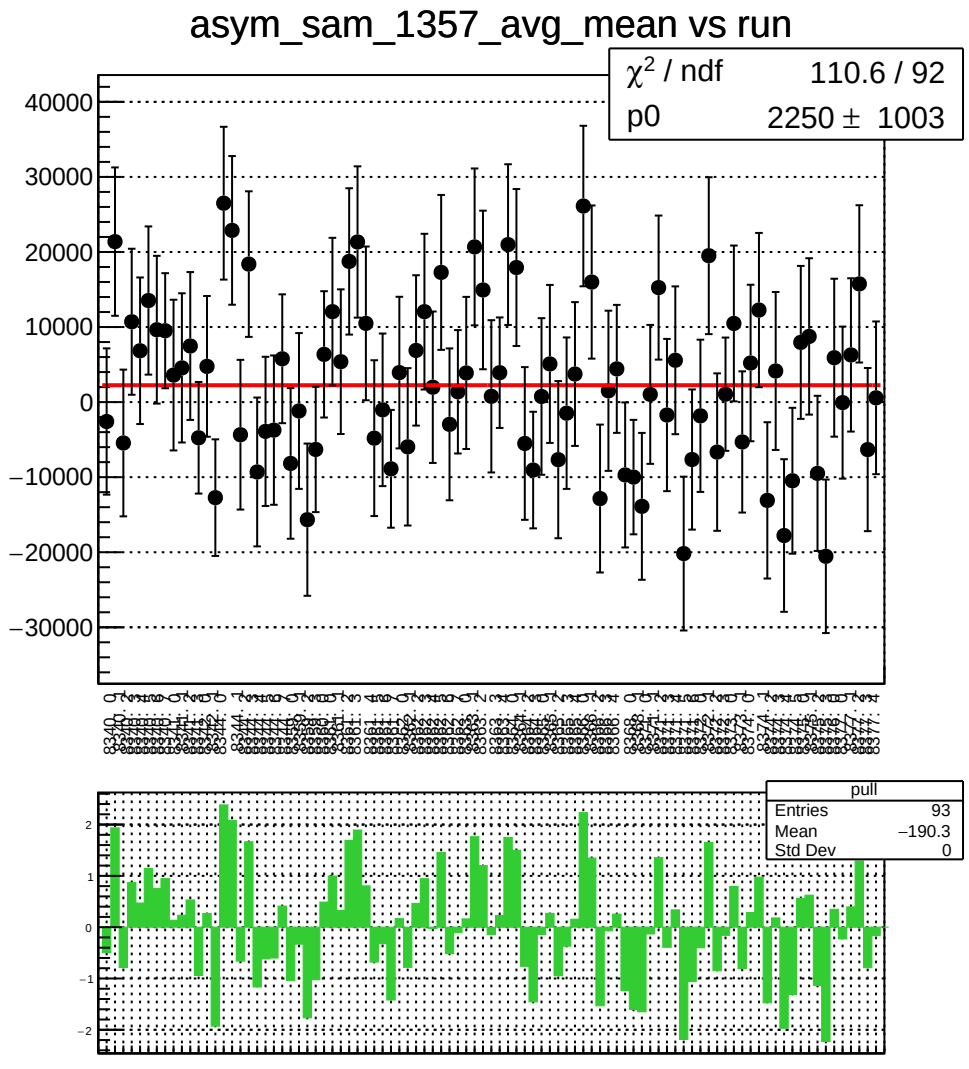

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1975 / 92
p0 958.7 ± 0.7084
1060
1040
1020
1000
980
960
940
920
900
880

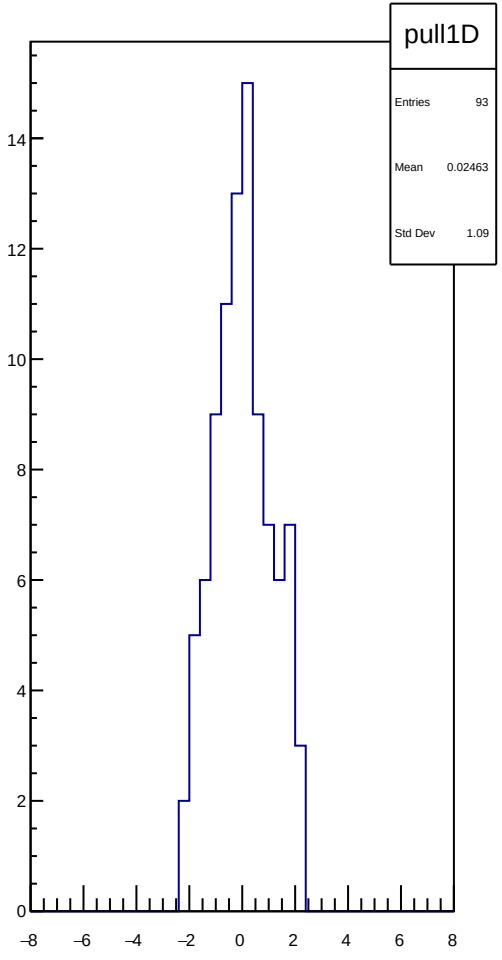

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 95.86 / 92
p0 −101.3 ± 97.9
pull
Entries 93
Mean 4218
Std Dev 0
pull1D
Entries 93
Mean −0.0002408
Std Dev 1.015

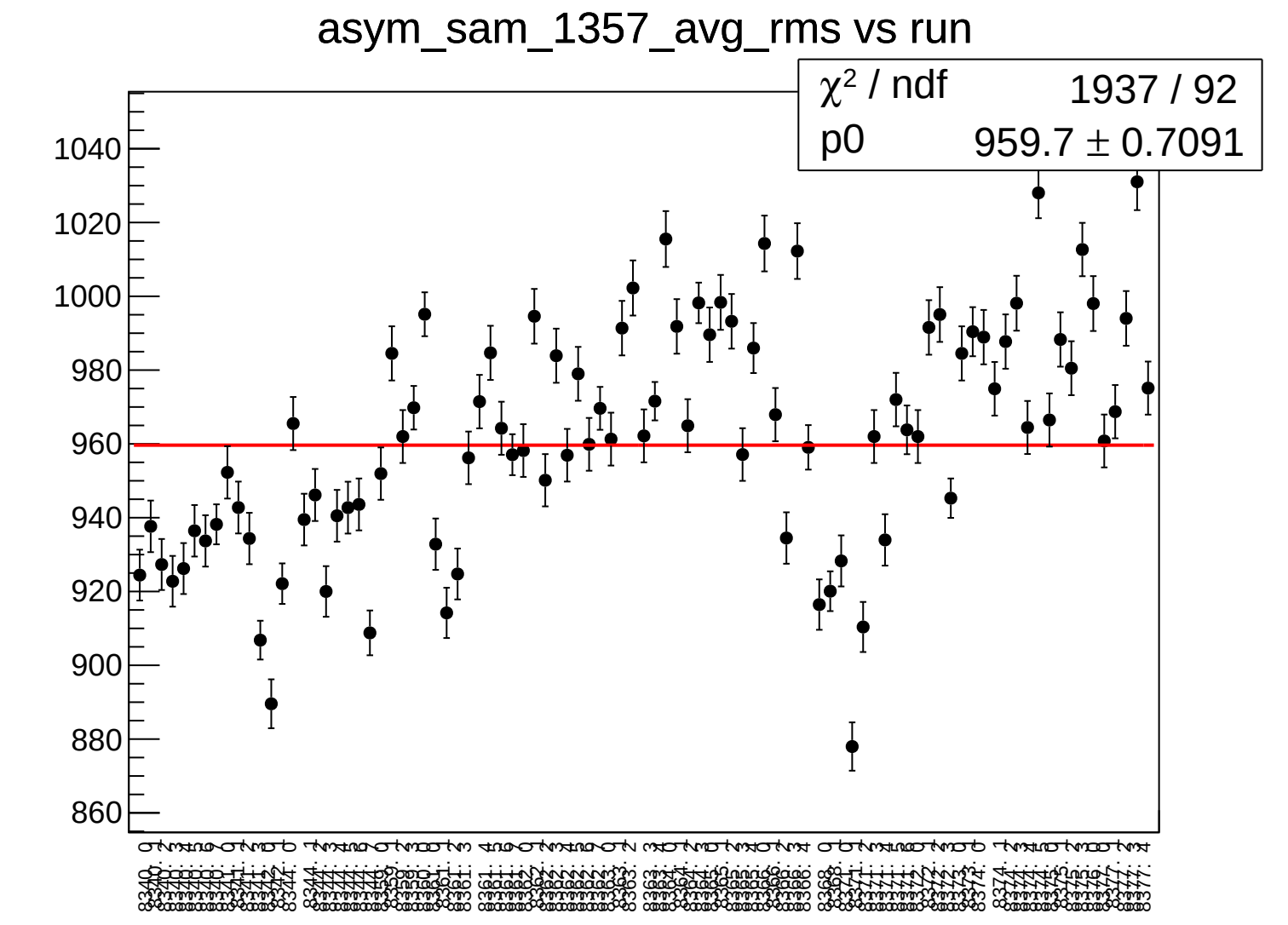

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.865e+04 / 92
p0 93.26 ± 0.06922
160
150
140
130
120
110
100
90
80

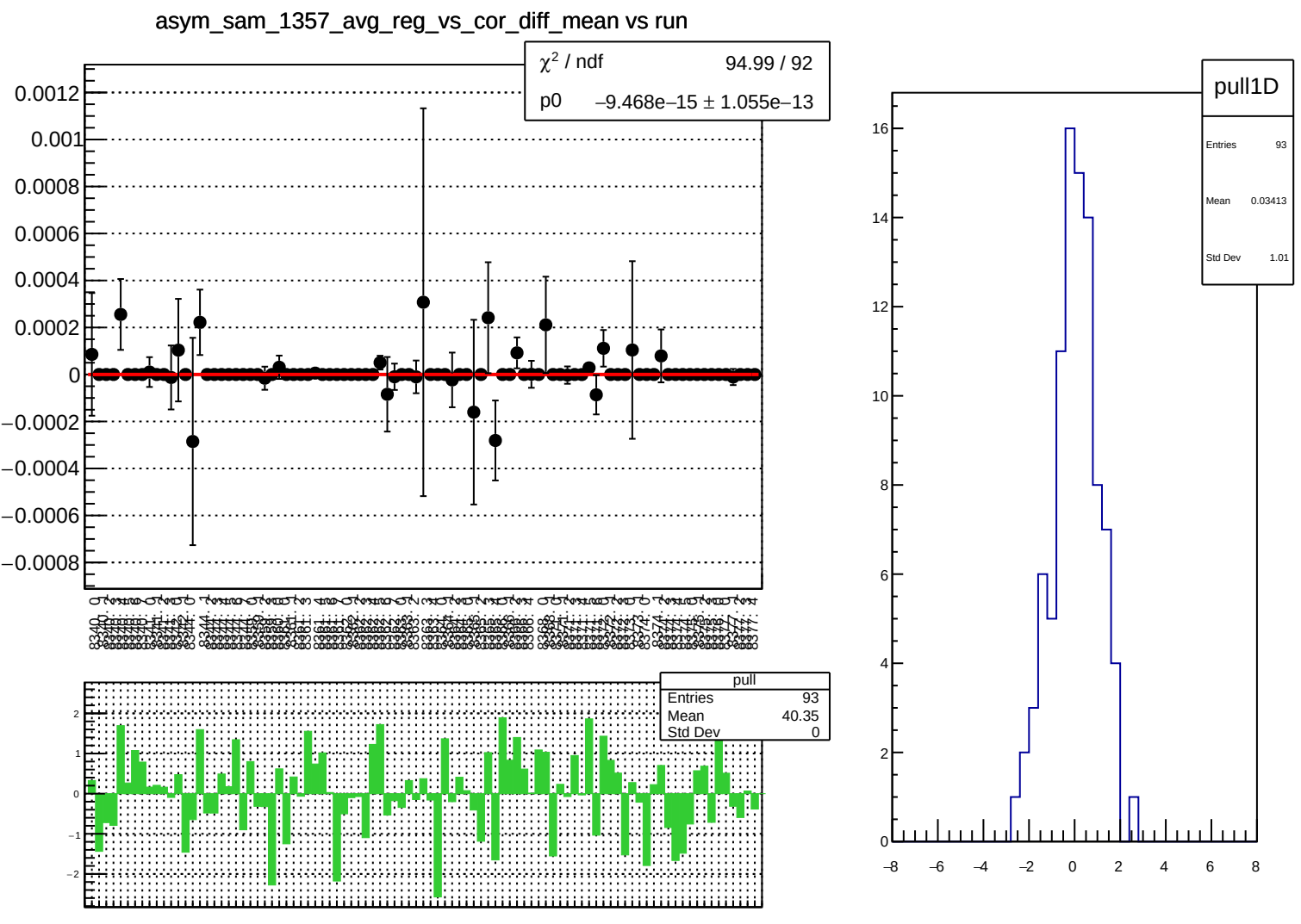

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.7 / 92
p0 −2403 ± 1002
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −213.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02211
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

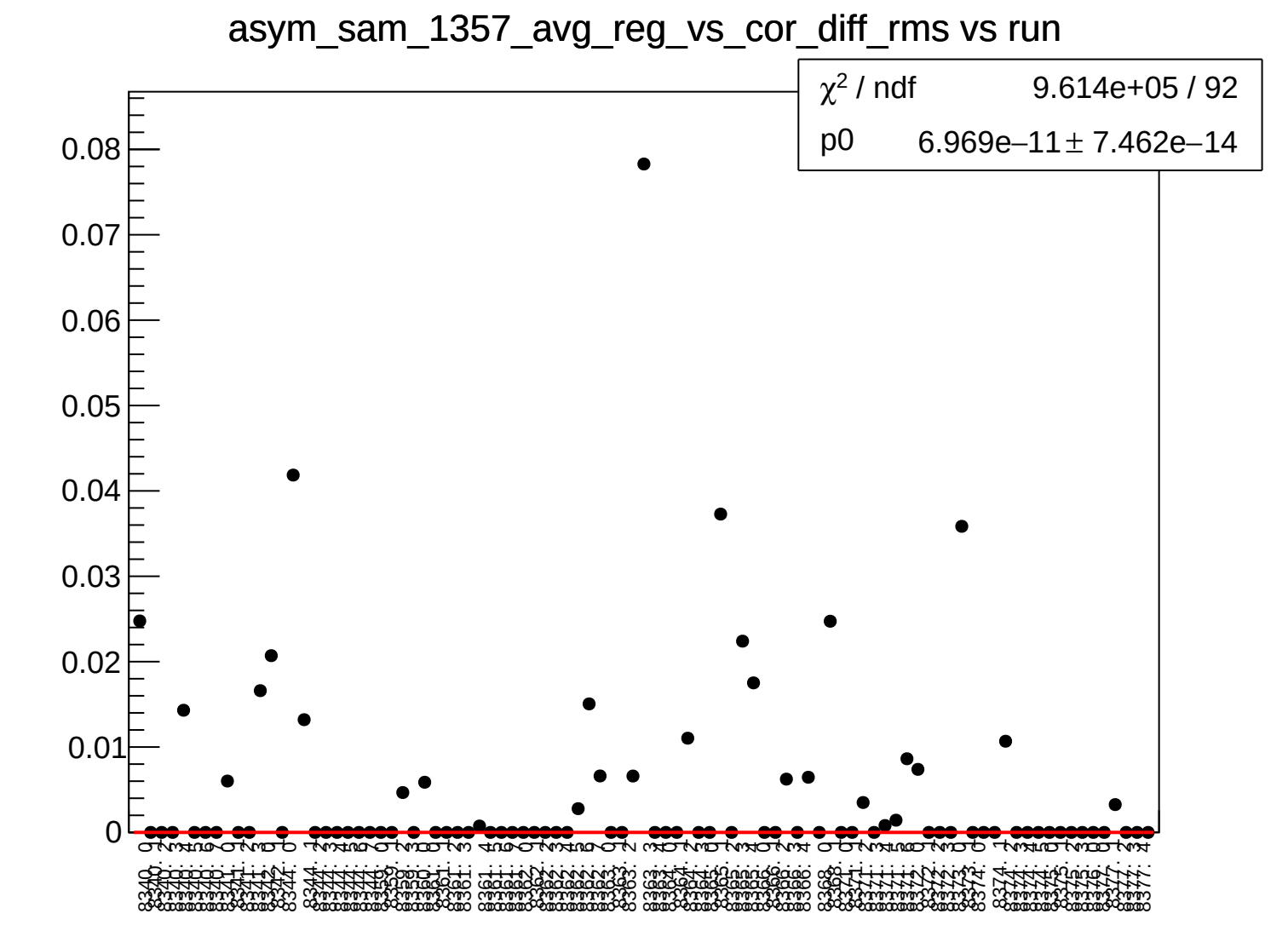

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1975 / 92
p0 958.7 ± 0.7084
1060
1040
1020
1000
980
960
940
920
900
880

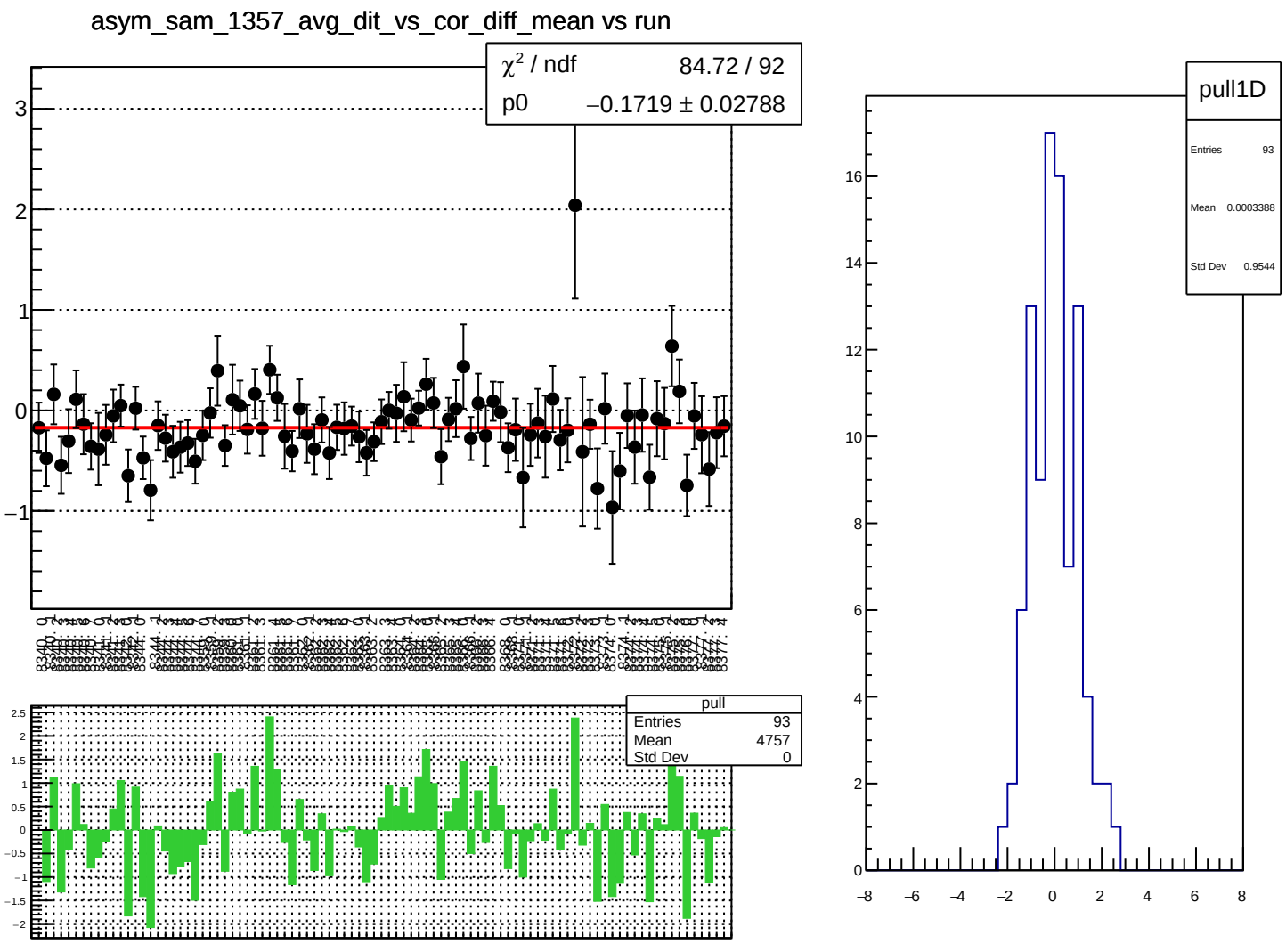

asym_sam_1357_avg_mean vs run
χ² / ndf 110.6 / 92
p0 2250 ± 1003
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −190.3
Std Dev 0
2
1
0
−1
−2

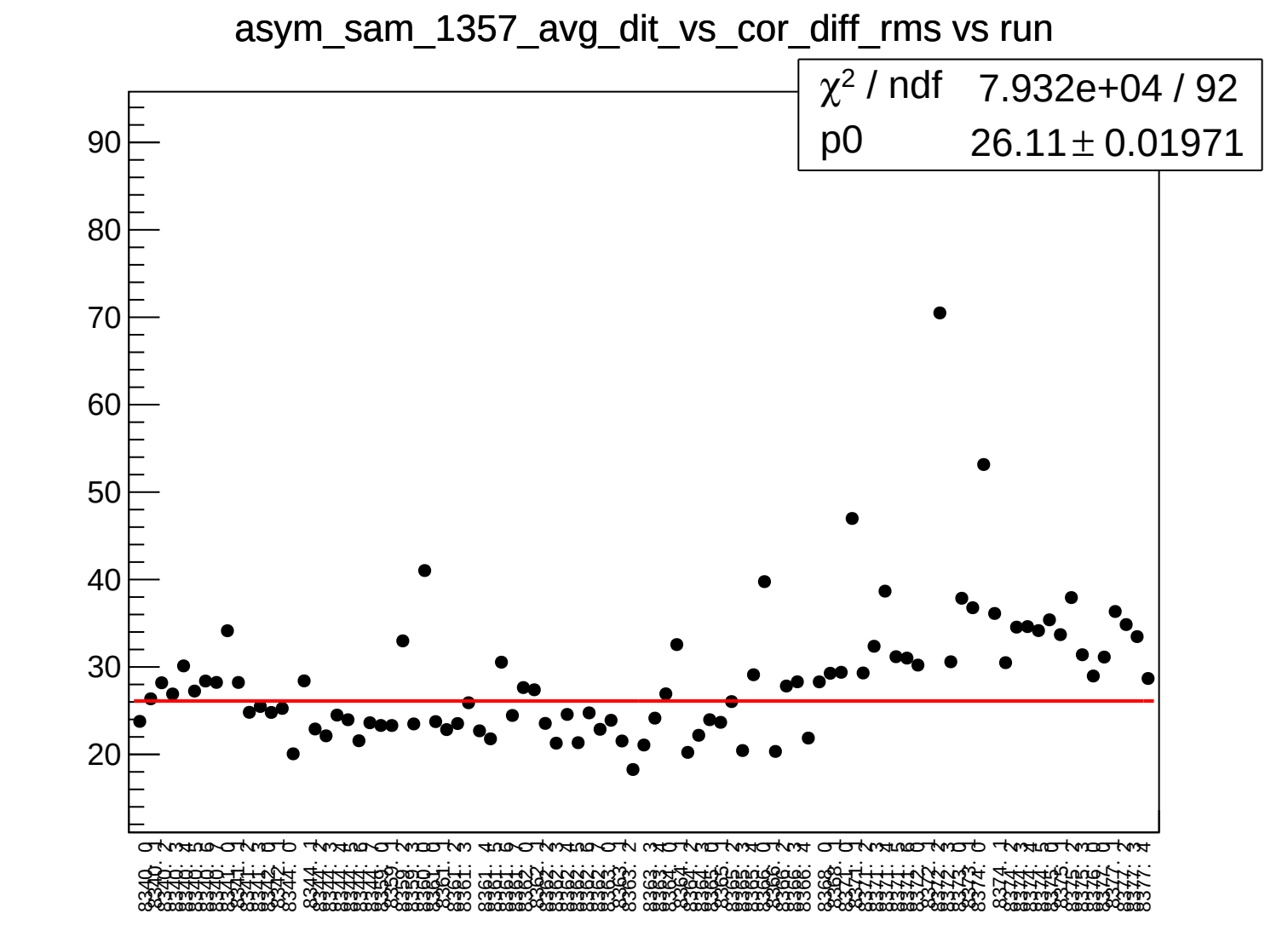

pull1D
Entries 93
Mean 0.02463
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

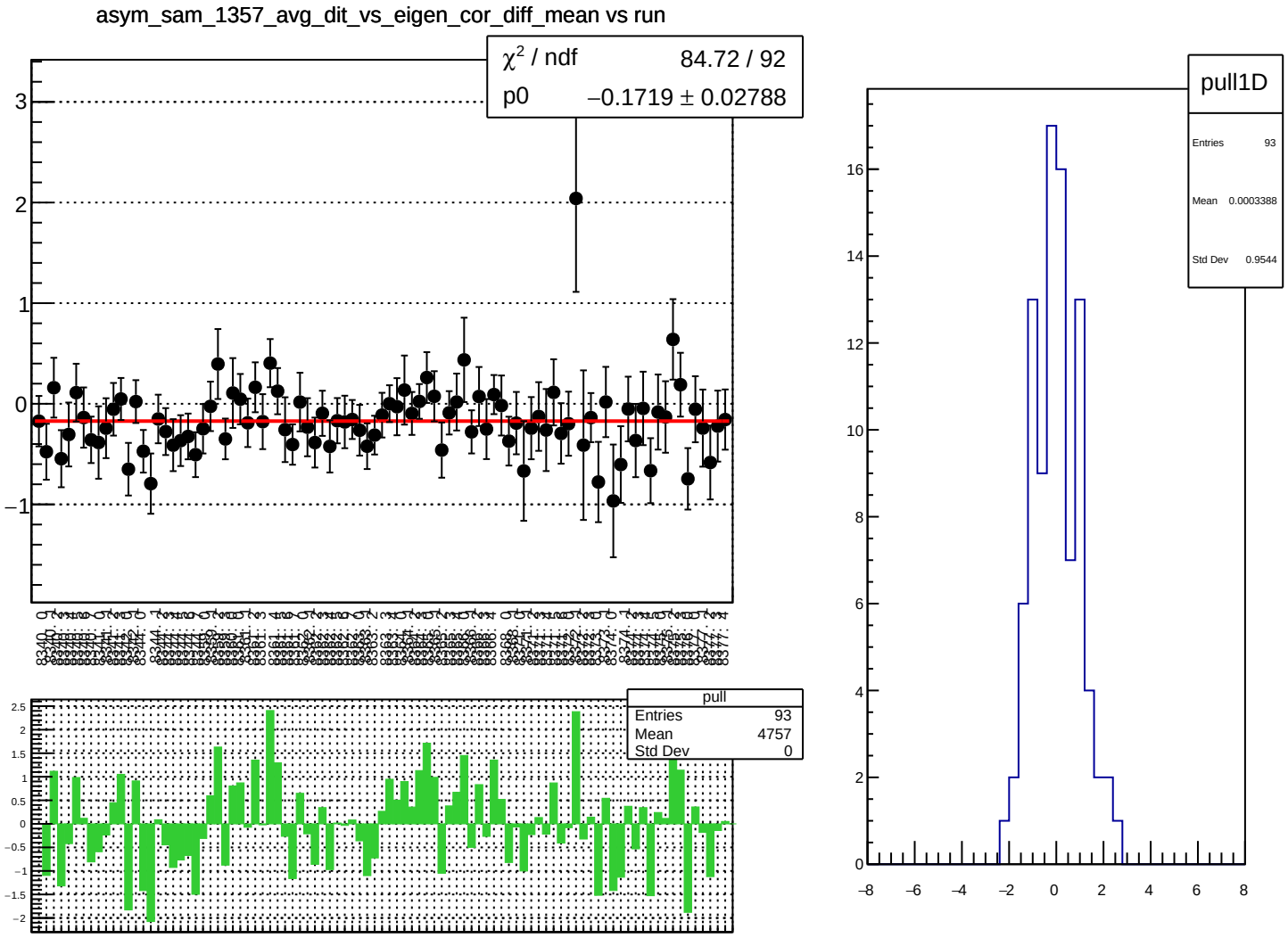

asym_sam_1357_avg_rms vs run
χ² / ndf 1937 / 92
p0 959.7 ± 0.7091
1040
1020
1000
980
960
940
920
900
880
860

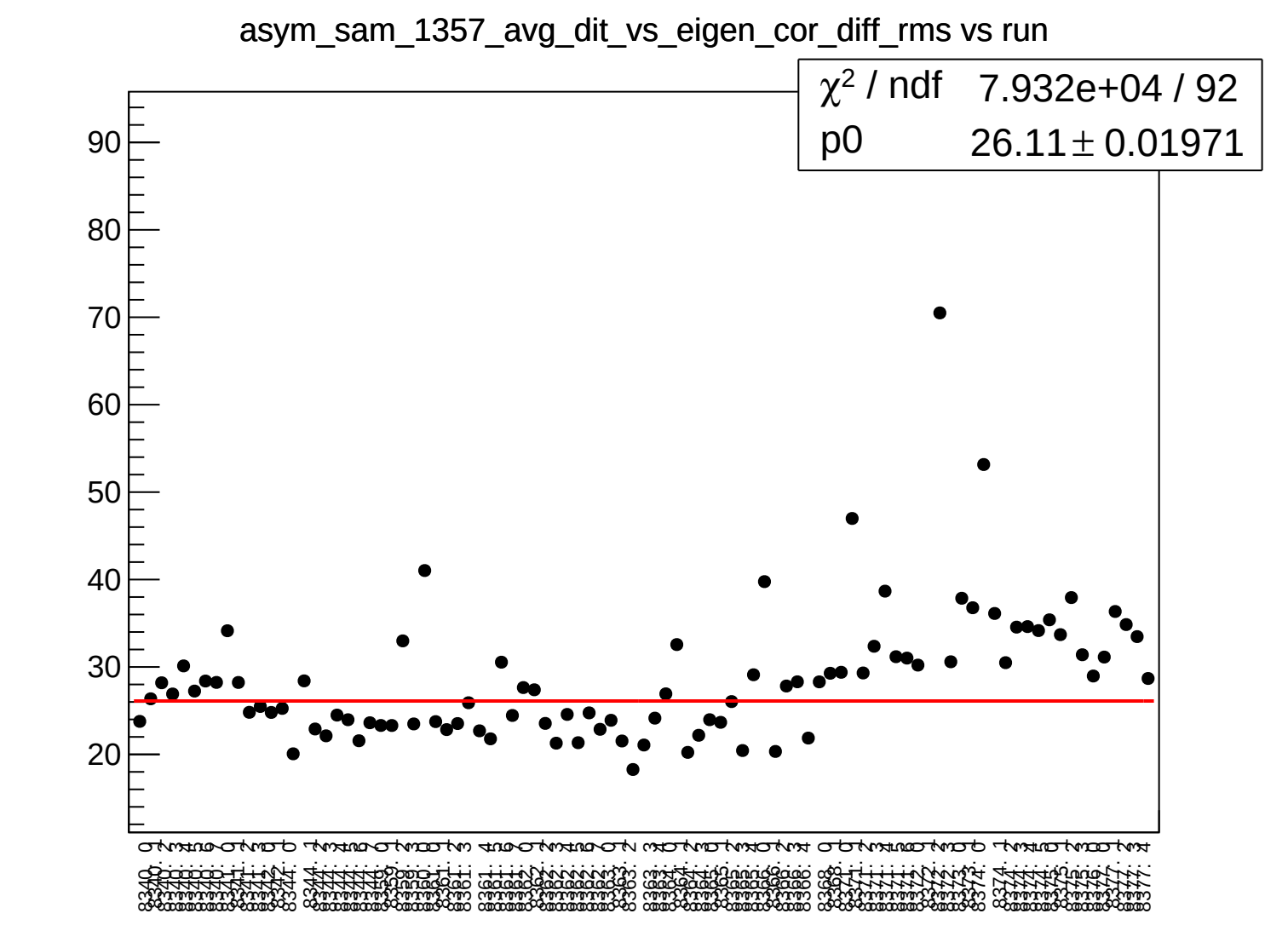

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.99 / 92
p0 −9.468e−15 ± 1.055e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 93
Mean 40.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.03413
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

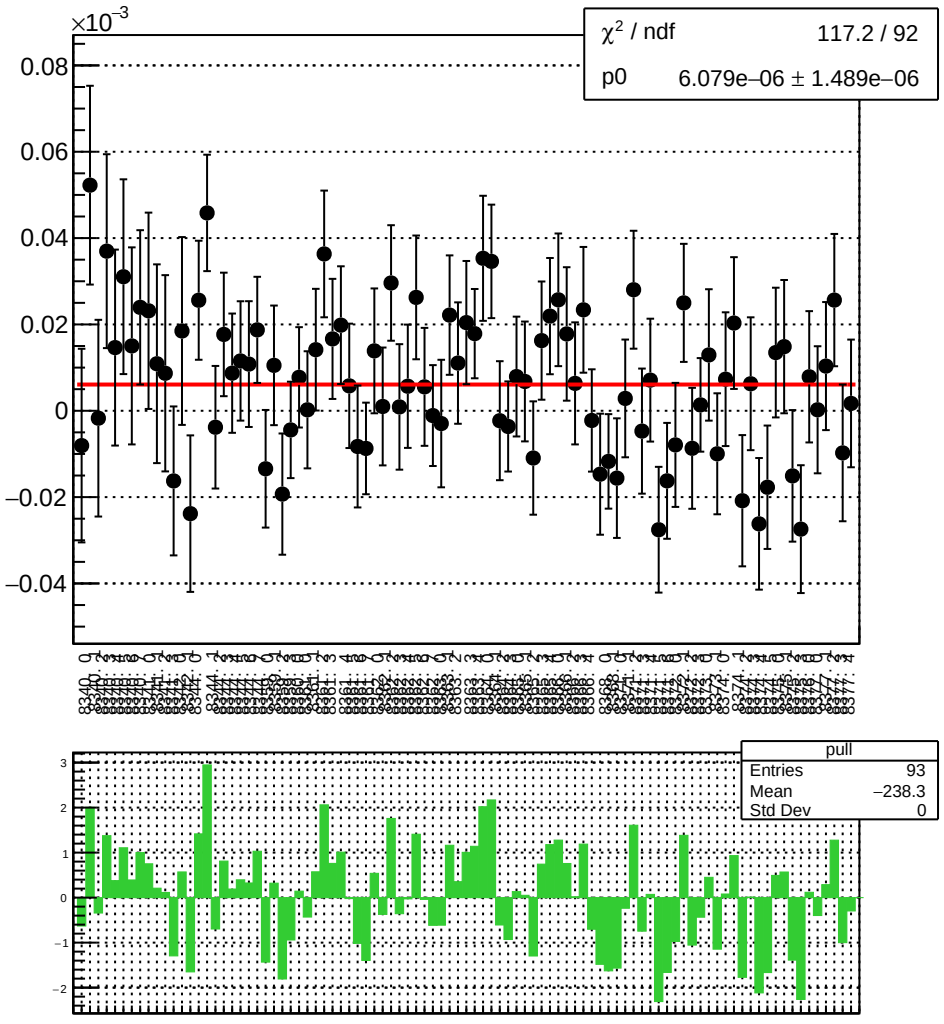

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.614e+05 / 92
p0 6.969e−11 ± 7.462e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

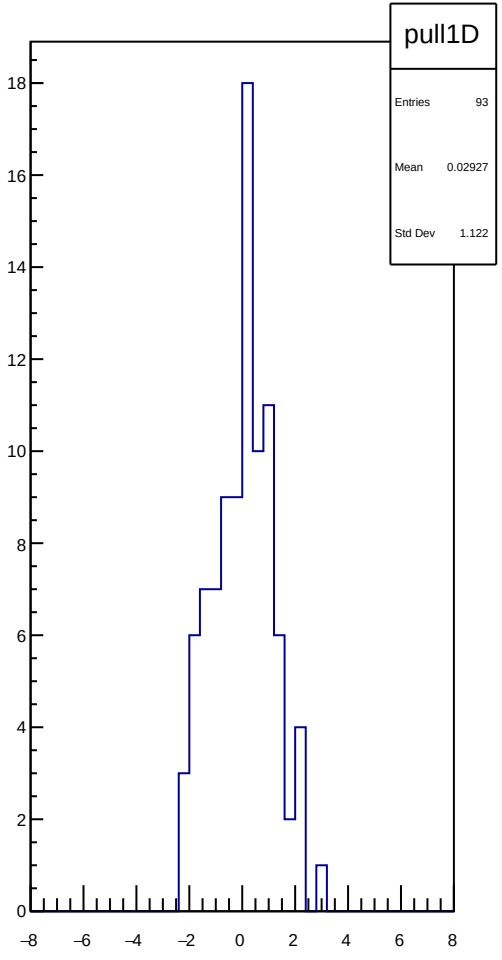

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 92
p0 −0.1719 ± 0.02788
pull
Entries 93
Mean 4757
Std Dev 0
pull1D
Entries 93
Mean 0.0003388
Std Dev 0.9544

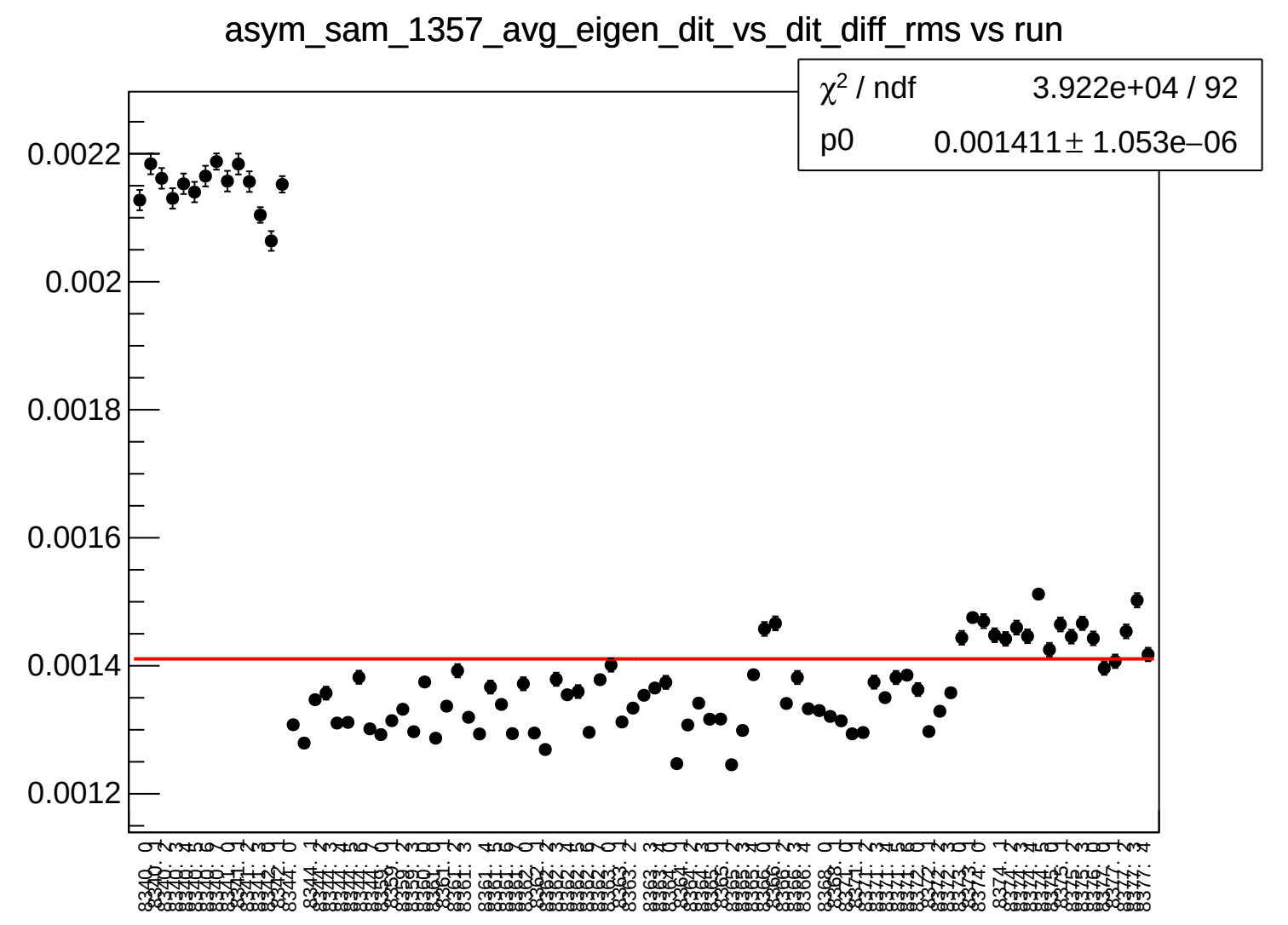

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.932e+04 / 92
p0 26.11 ± 0.01971
90
80
70
60
50
40
30
20

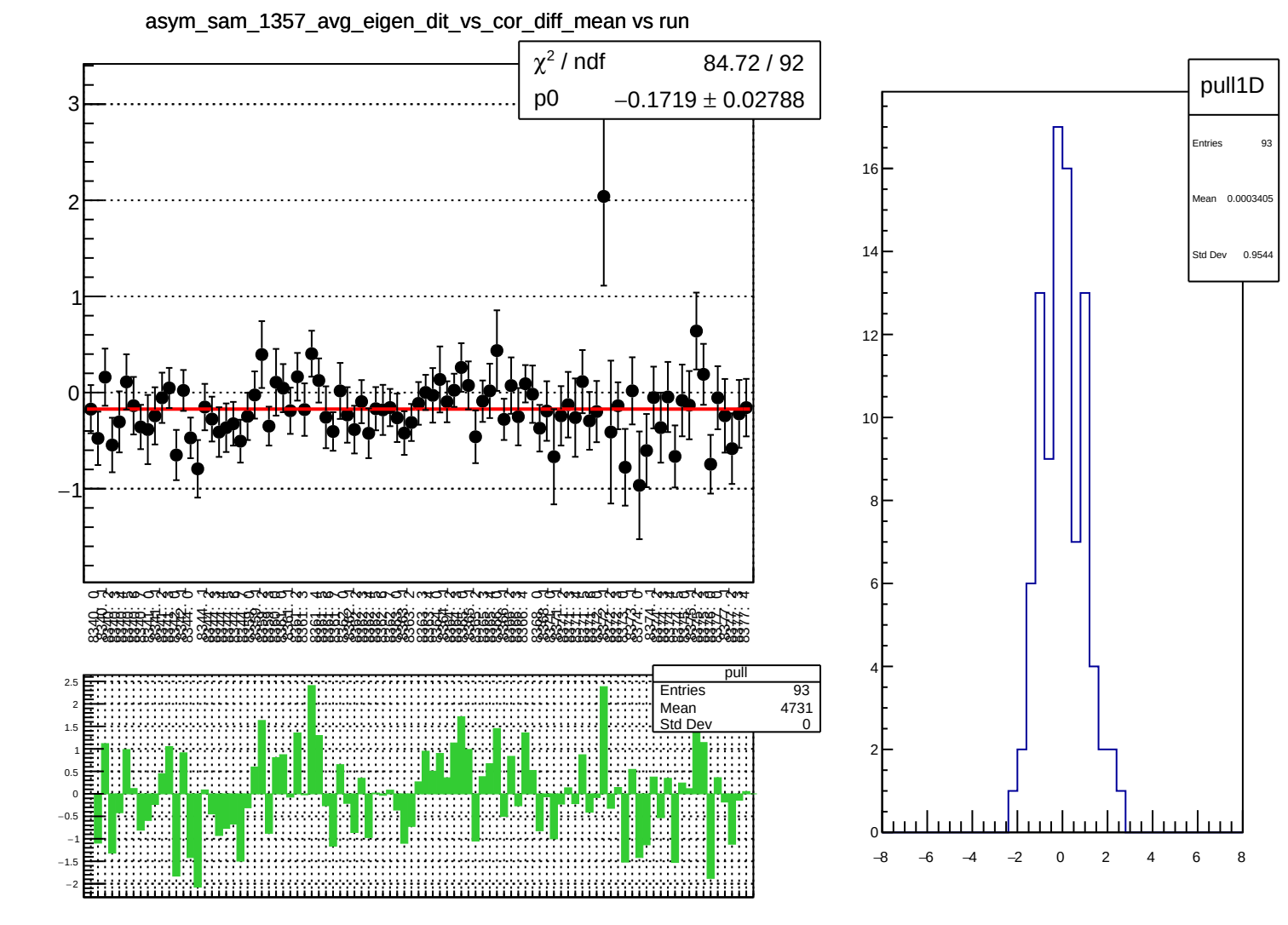

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.72 / 92
p0 −0.1719 ± 0.02788
pull
Entries 93
Mean 4757
Std Dev 0
pull1D
Entries 93
Mean 0.0003388
Std Dev 0.9544

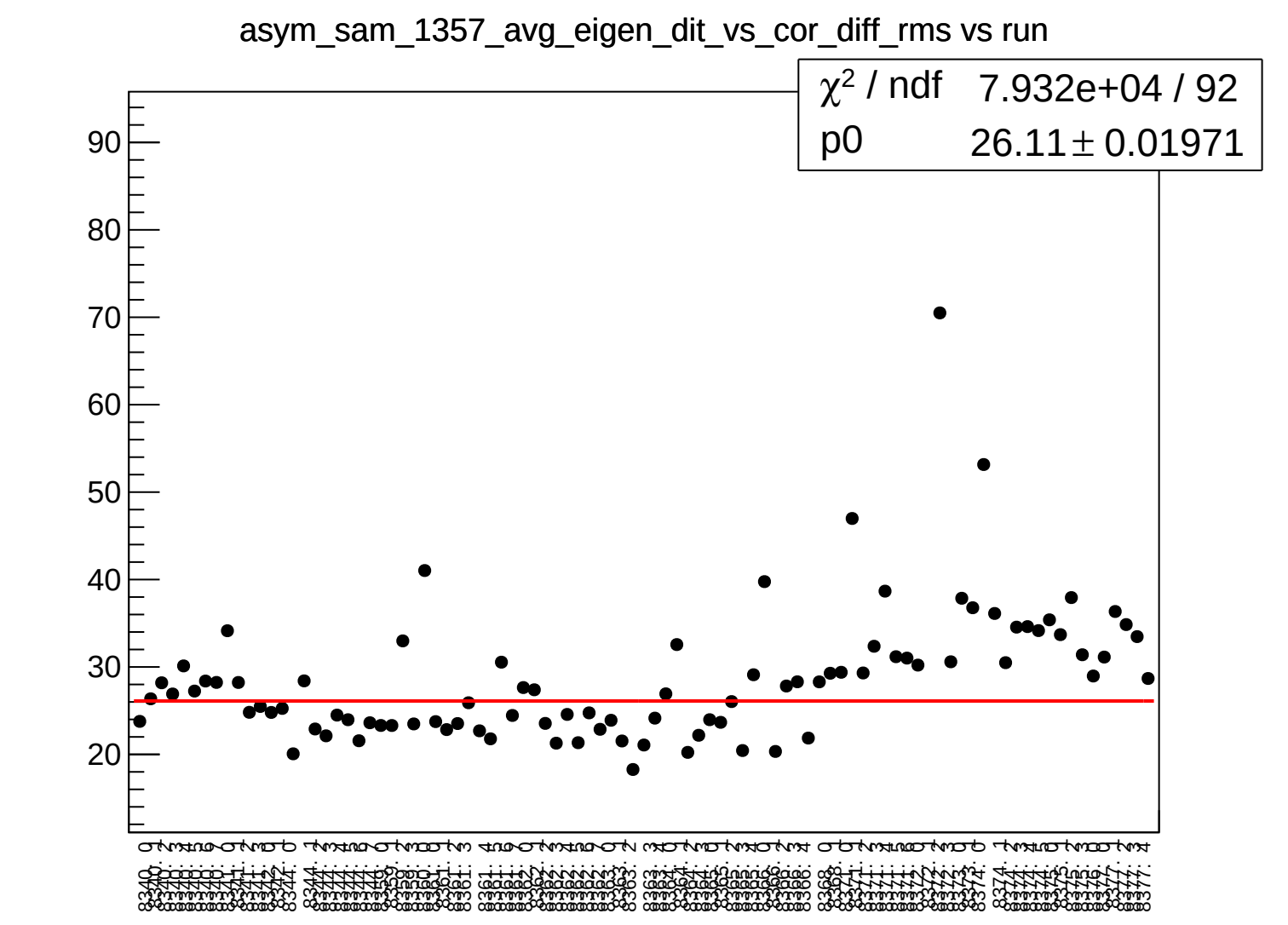

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.932e+04 / 92
p0 26.11 ± 0.01971
90
80
70
60
50
40
30
20

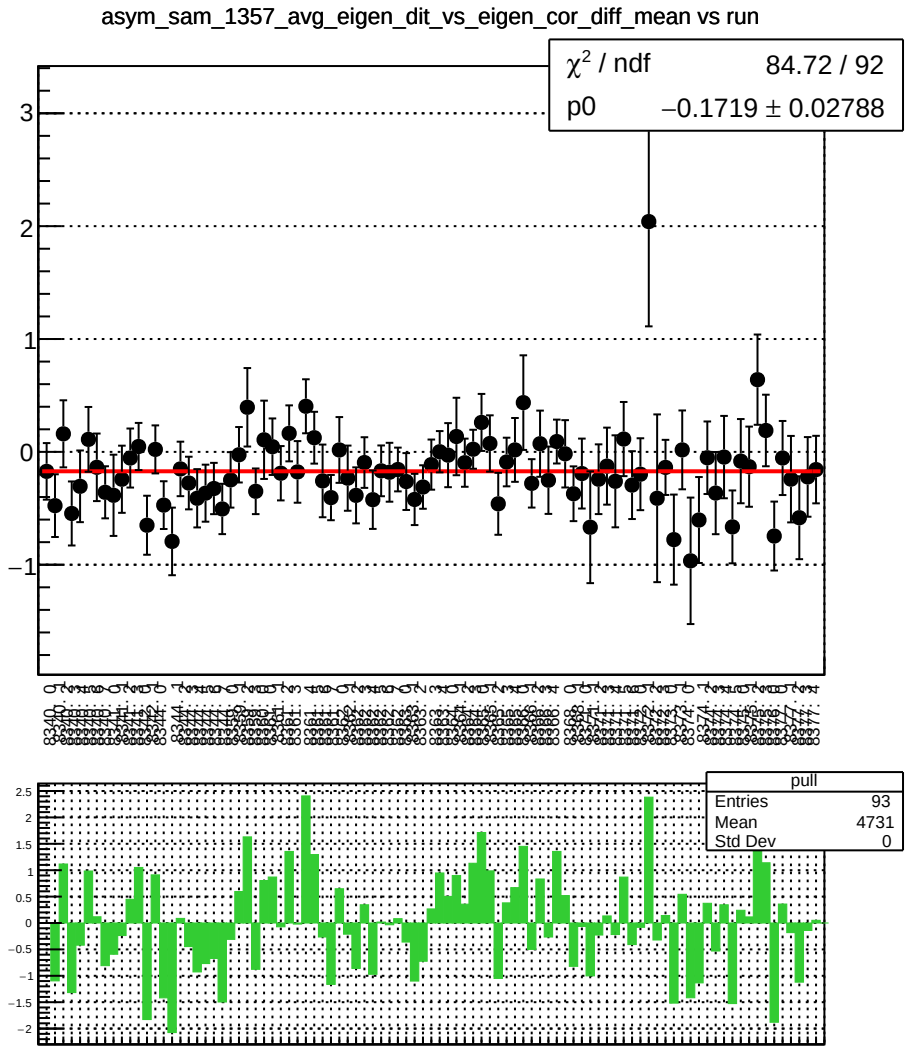

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.2 / 92
p0 6.079e−06 ± 1.489e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 93
Mean −238.3
Std Dev 0
3
2
1
0
−1
−2

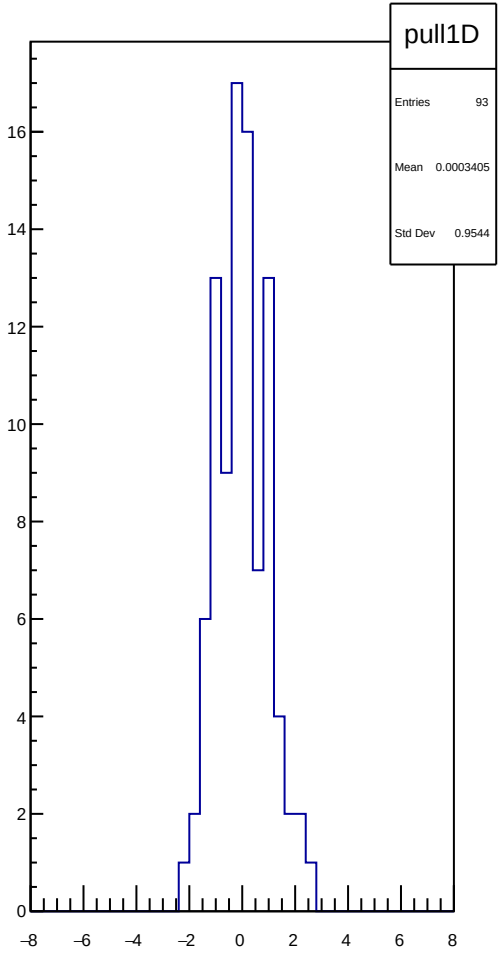

pull1D
Entries 93
Mean 0.02927
Std Dev 1.122
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

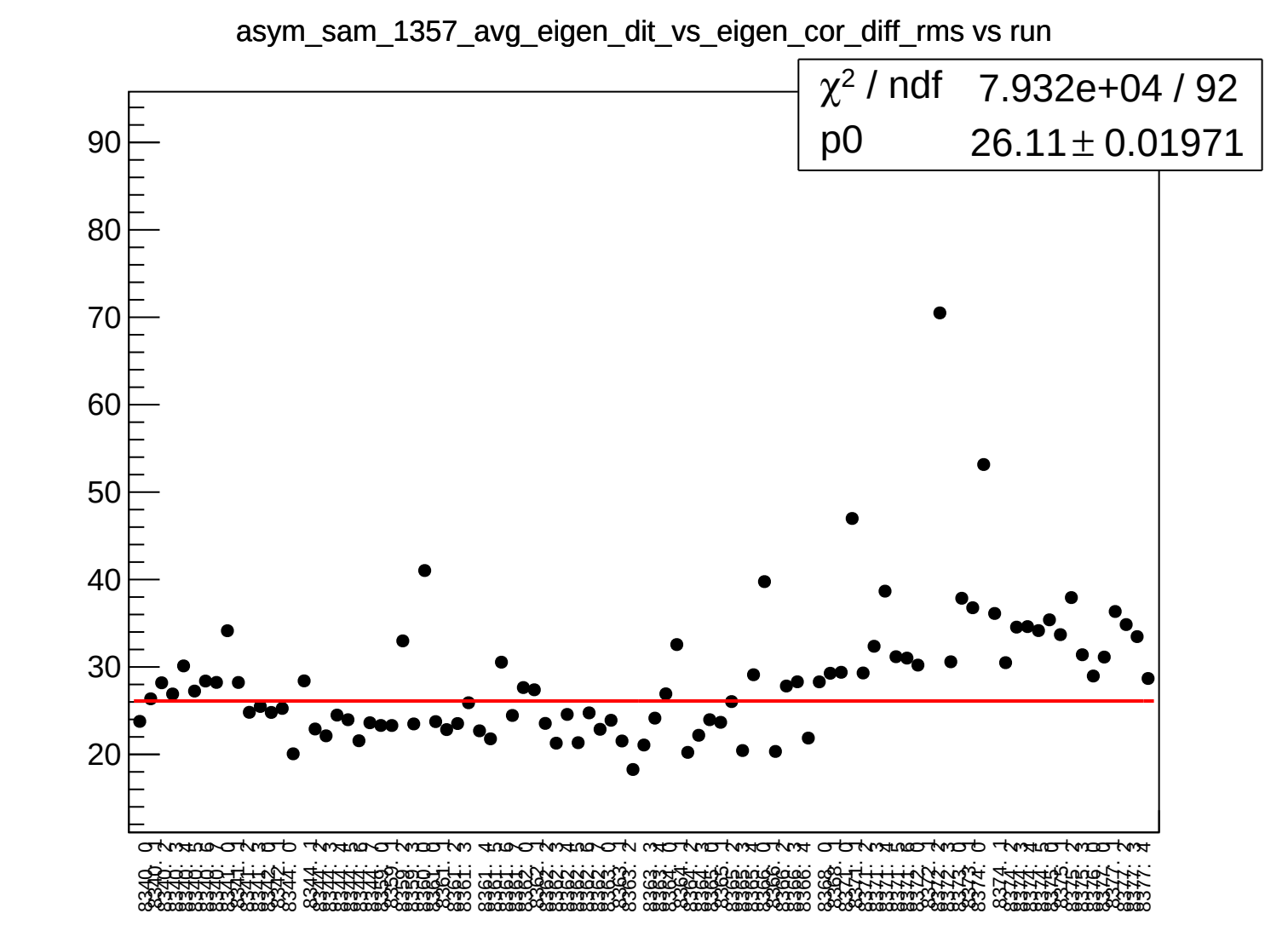

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.922e+04 / 92
p0 0.001411 ± 1.053e−06
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

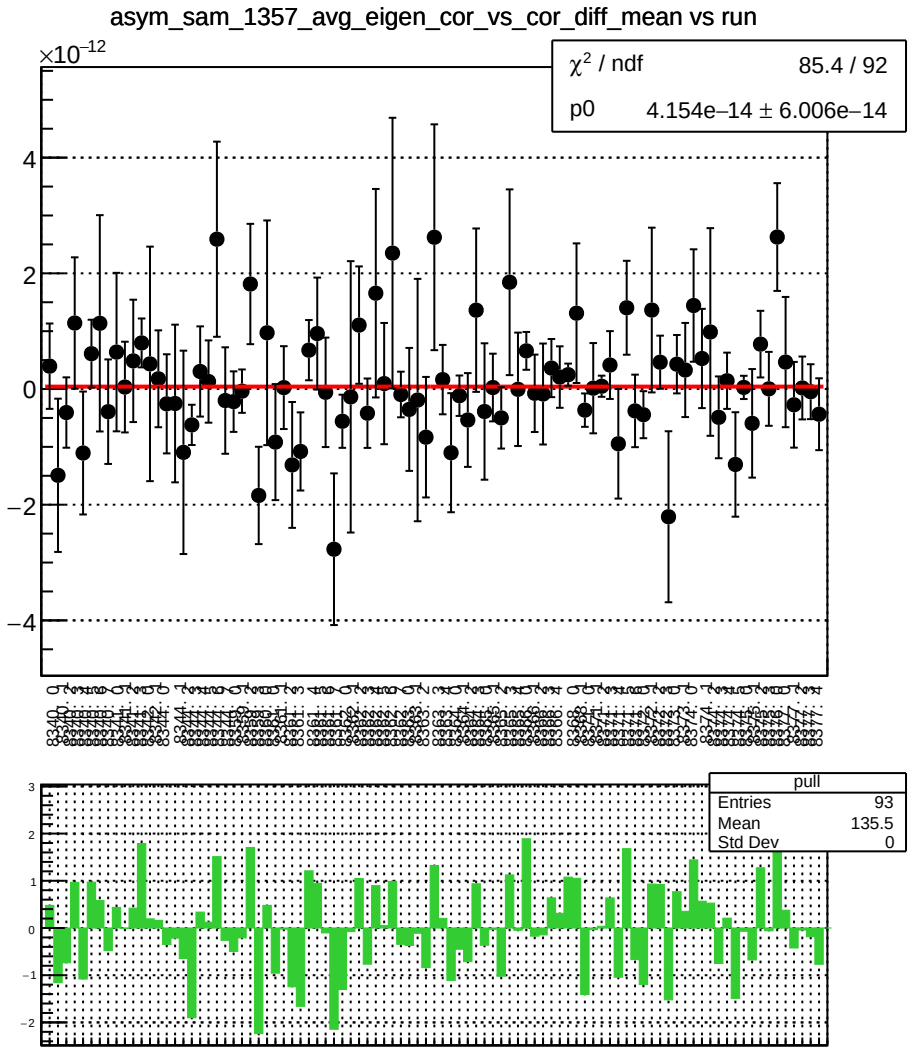

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.72 / 92
p0 −0.1719 ± 0.02788
pull
Entries 93
Mean 4731
Std Dev 0
pull1D
Entries 93
Mean 0.0003405
Std Dev 0.9544

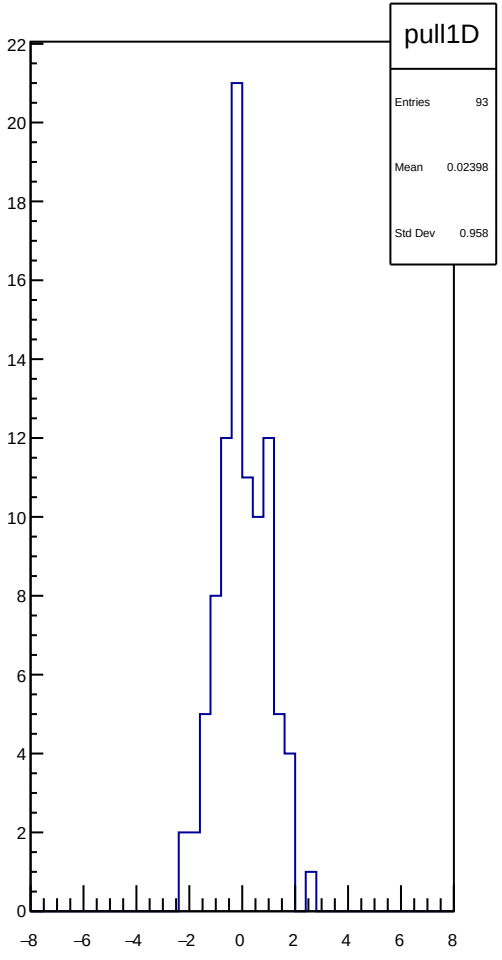

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.932e+04 / 92
p0 26.11 ± 0.01971
90
80
70
60
50
40
30
20

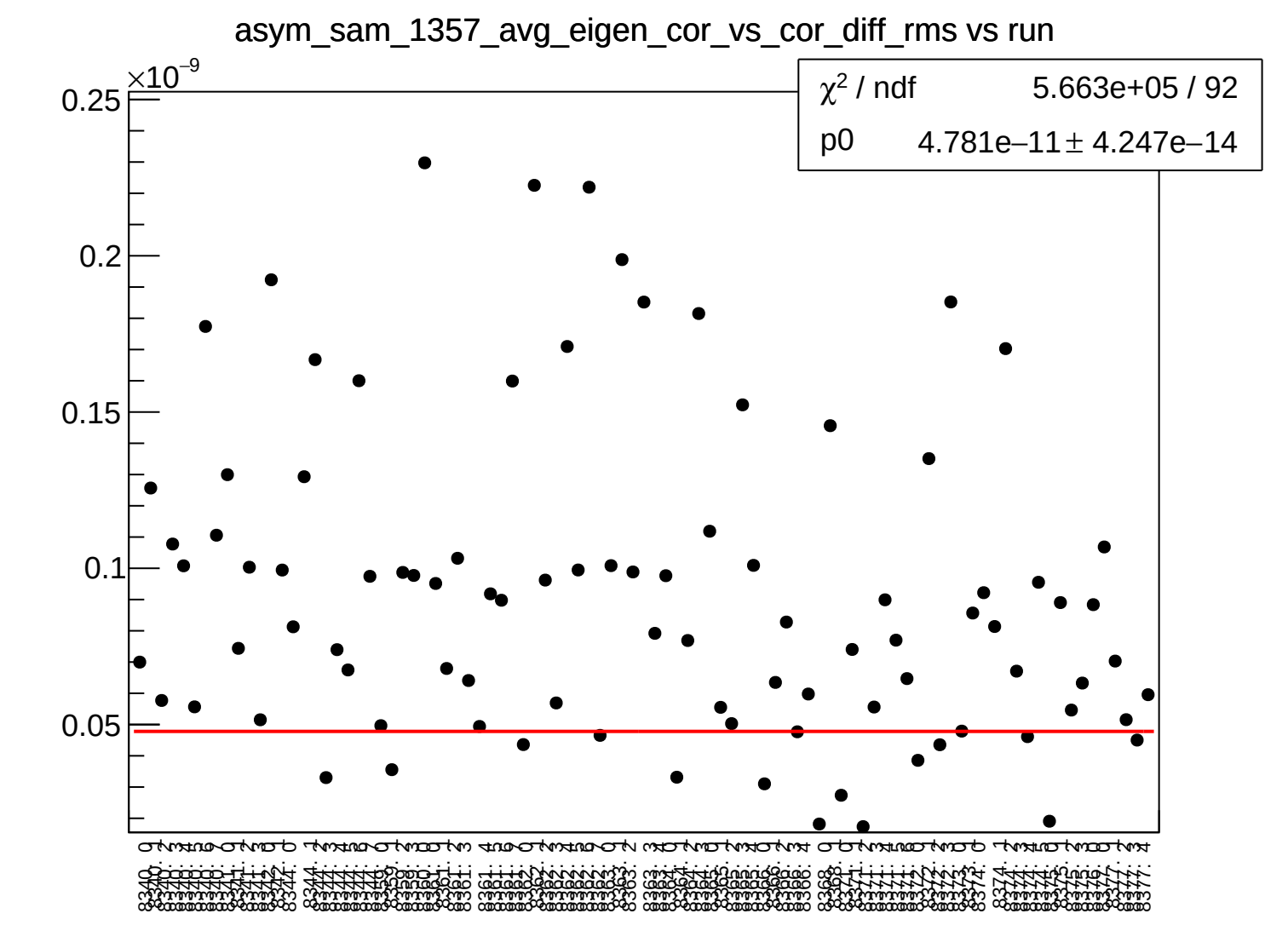

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.72 / 92
p0 −0.1719 ± 0.02788
pull
Entries 93
Mean 4731
Std Dev 0

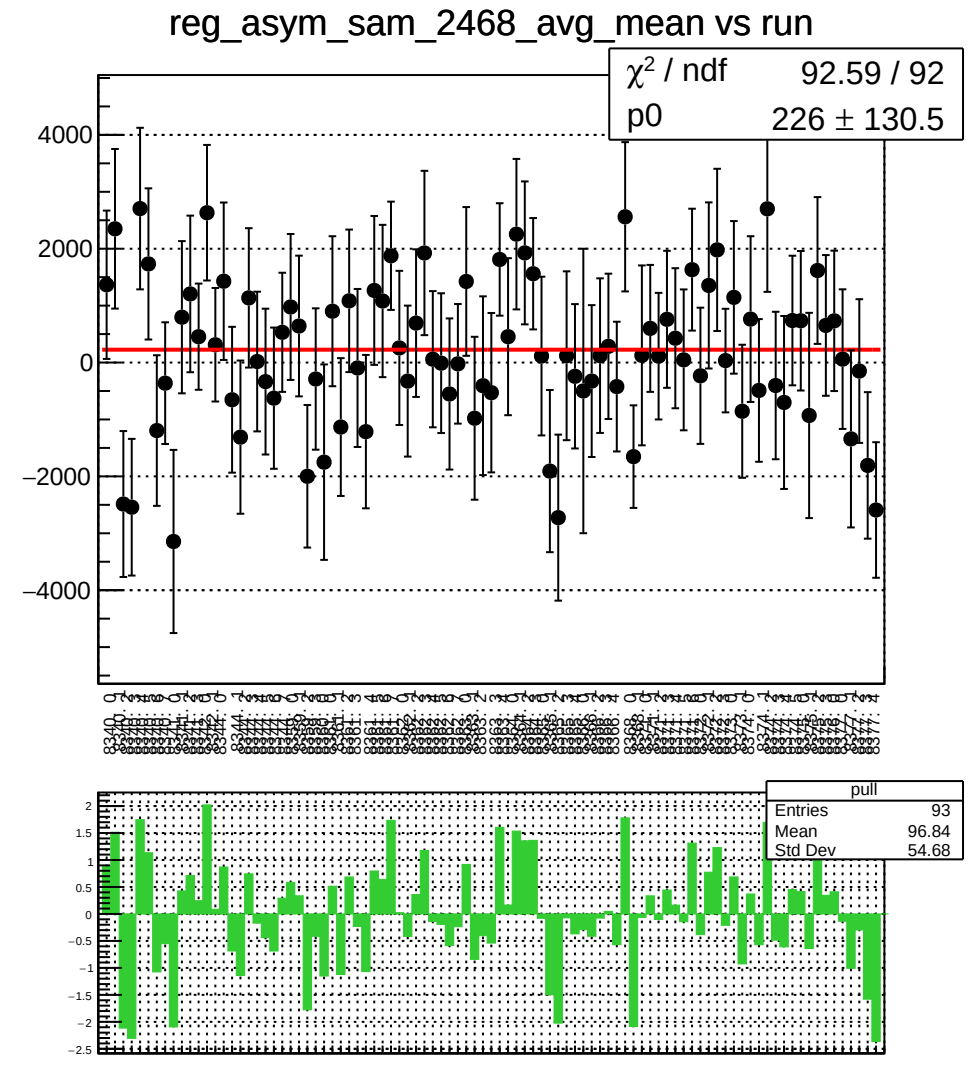

pull1D
Entries 93
Mean 0.0003405
Std Dev 0.9544

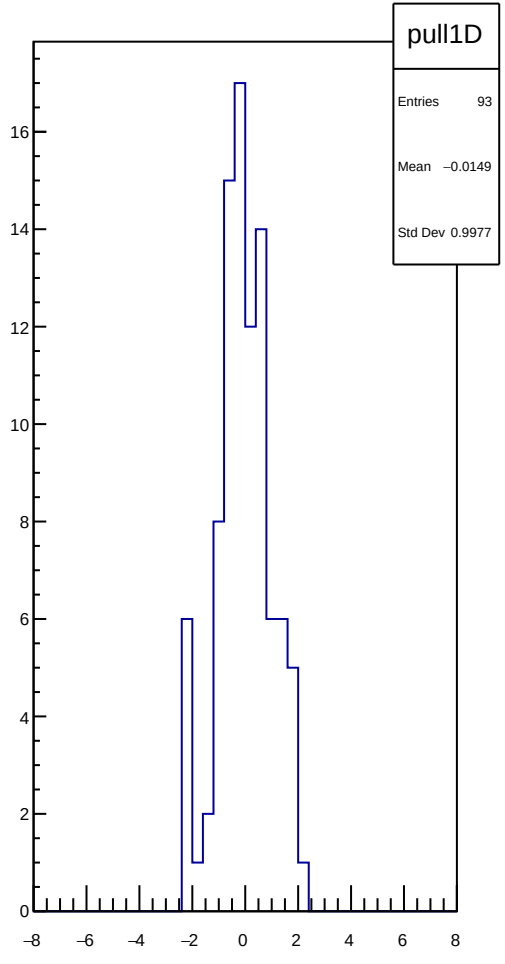

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.932e+04 / 92
p0 26.11 ± 0.01971
90
80
70
60
50
40
30
20

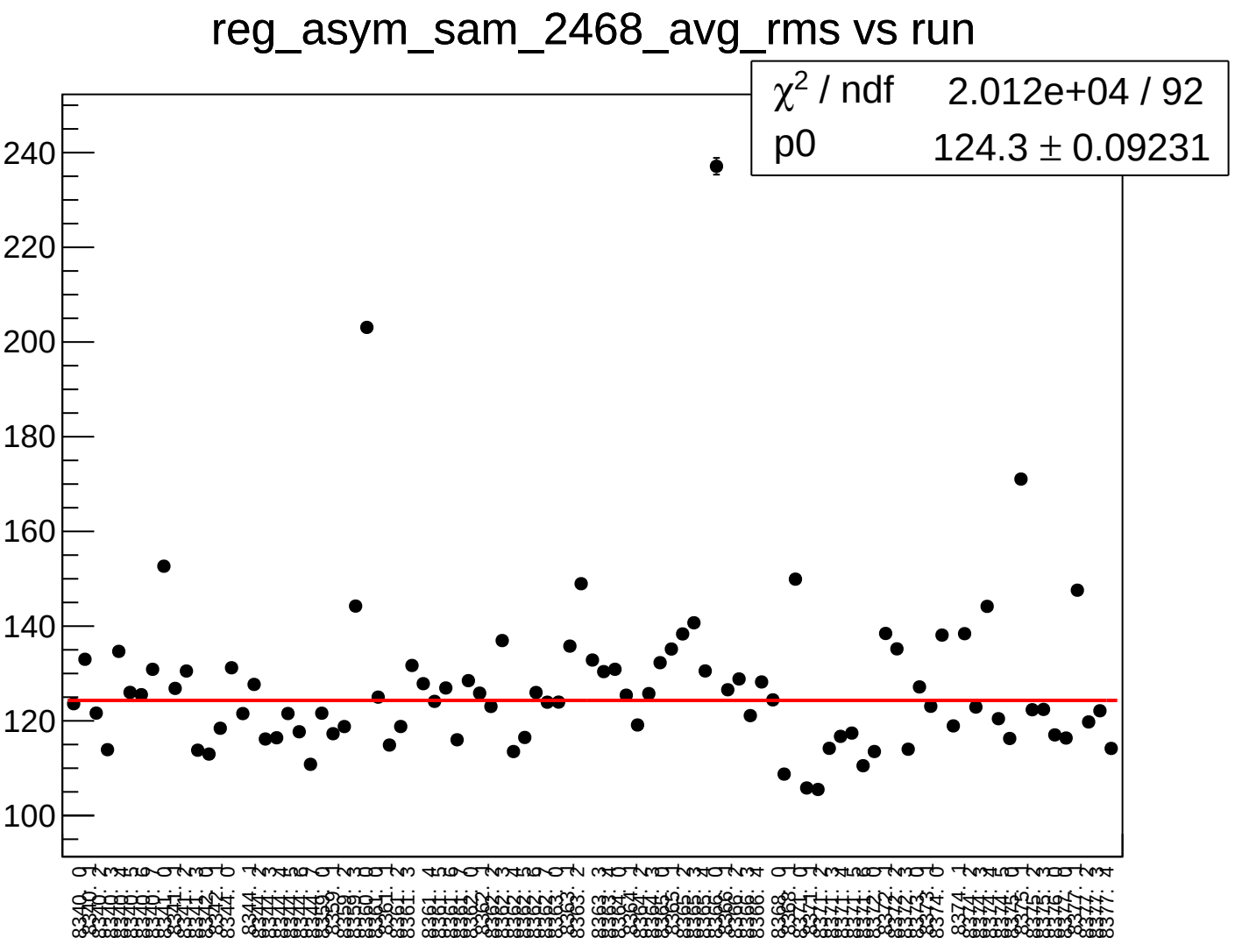

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.4 / 92
p0 4.154e−14 ± 6.006e−14
pull
Entries 93
Mean 135.5
Std Dev 0

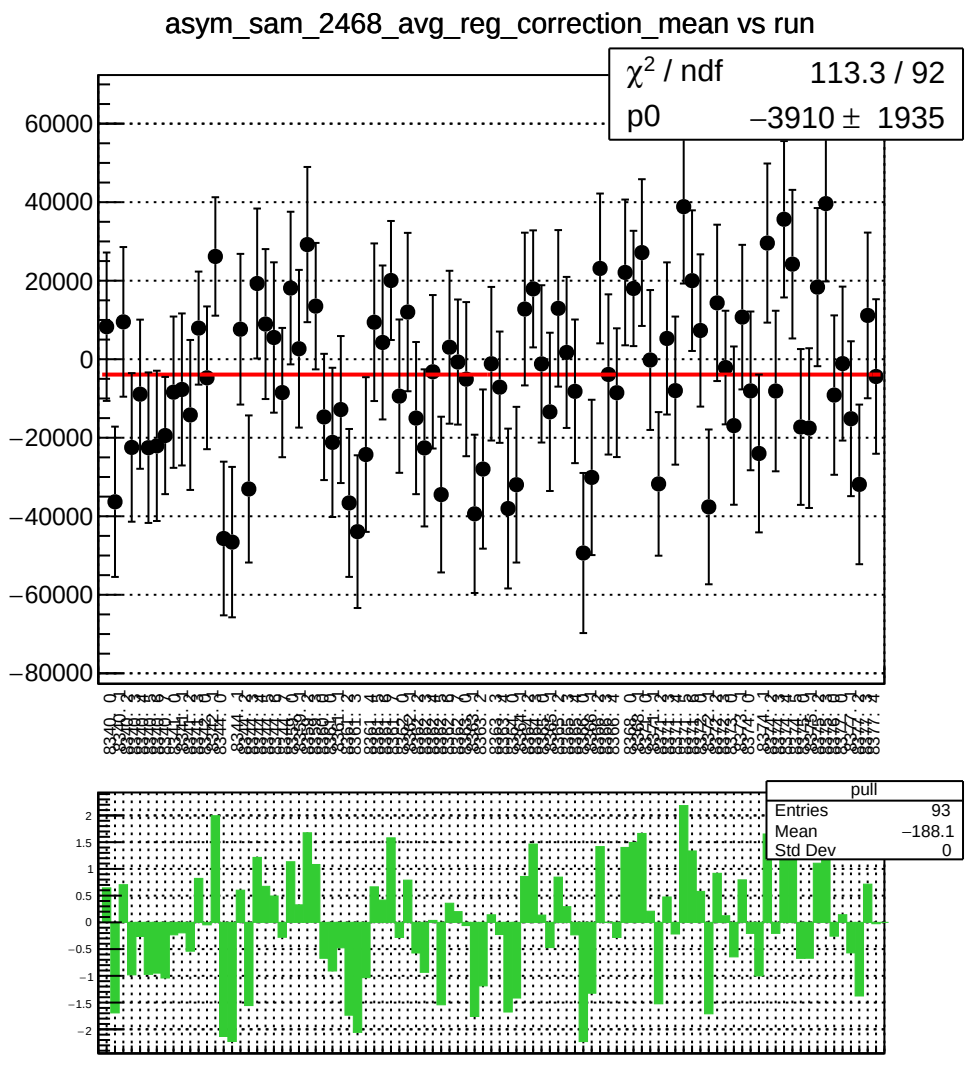

pull1D
Entries 93
Mean 0.02398
Std Dev 0.958

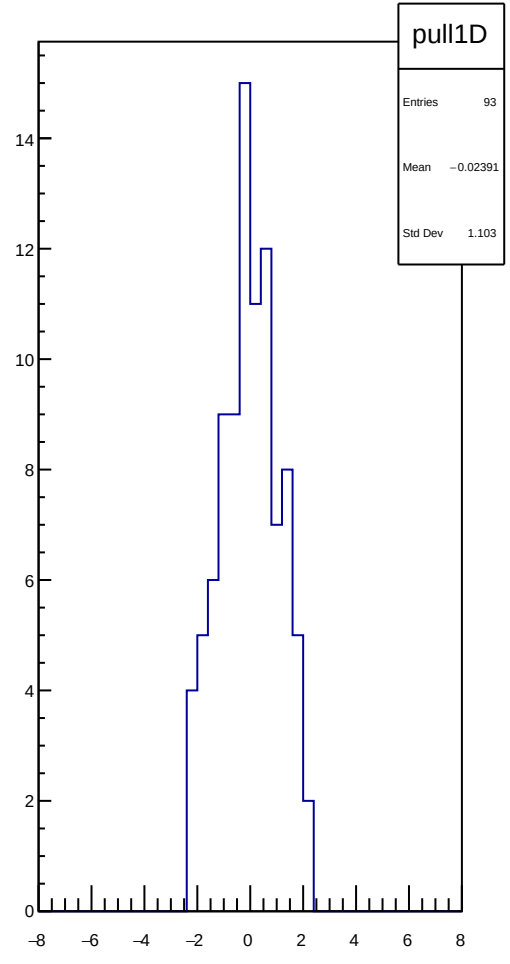

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 5.663e+05 / 92
p0 4.781e−11 ± 4.247e−14

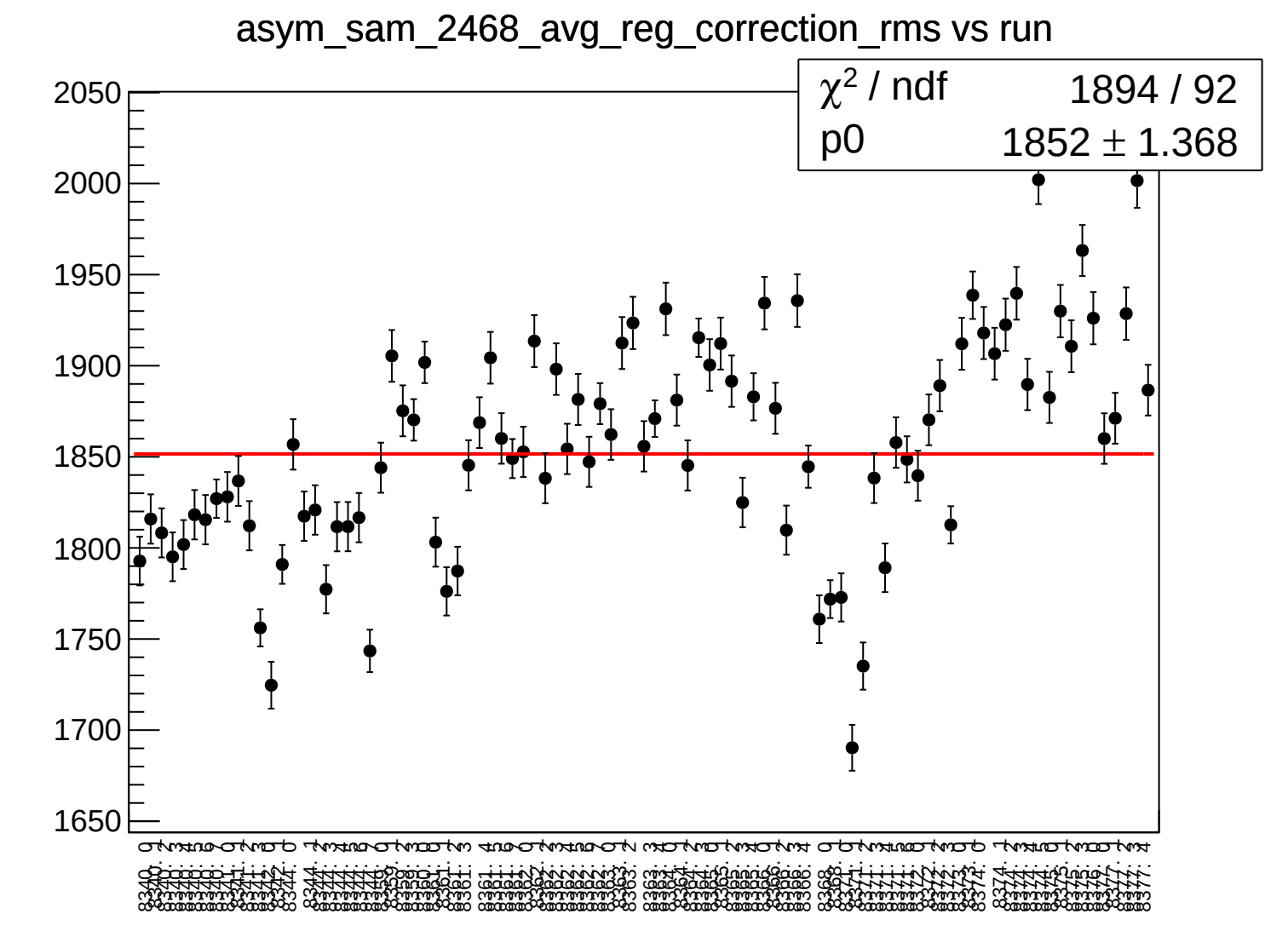

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 92.59 / 92
p0 226 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 96.84
Std Dev 54.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

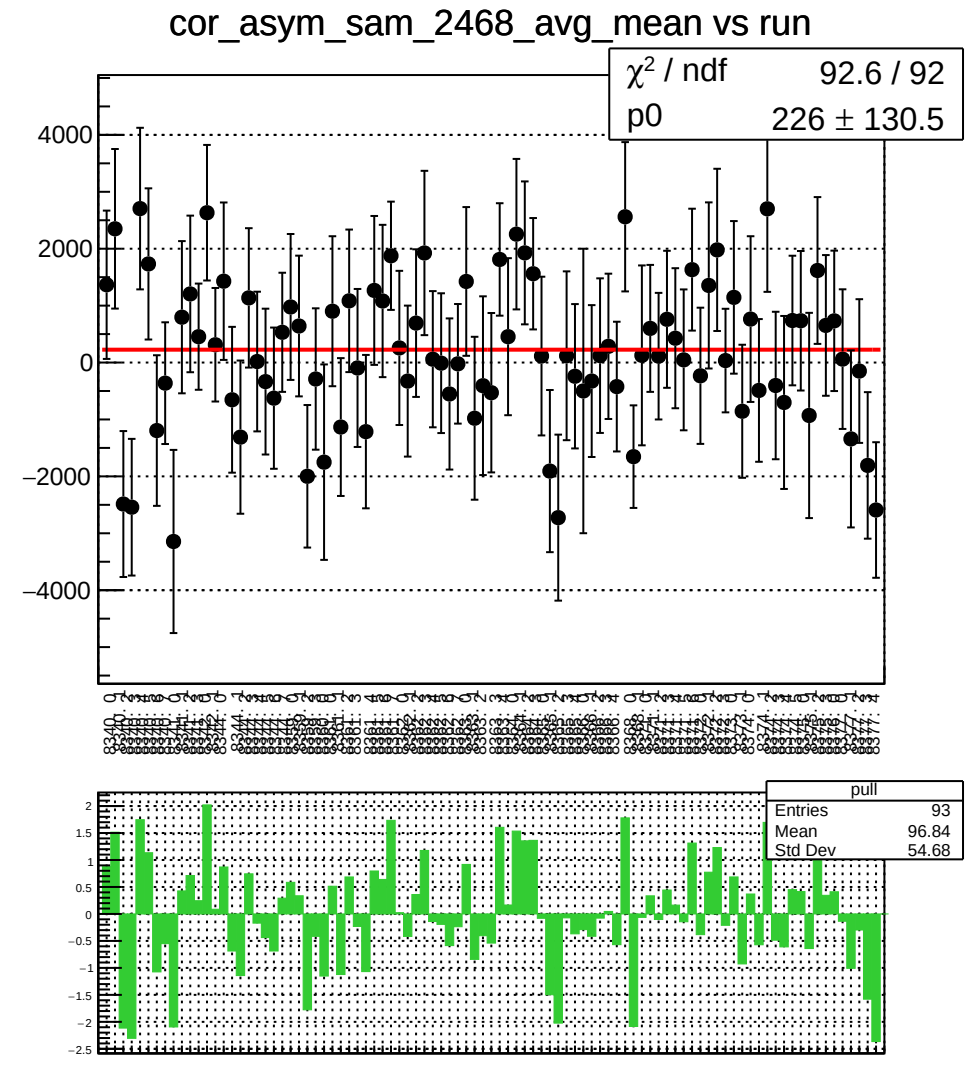

pull1D
Entries 93
Mean −0.0149
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

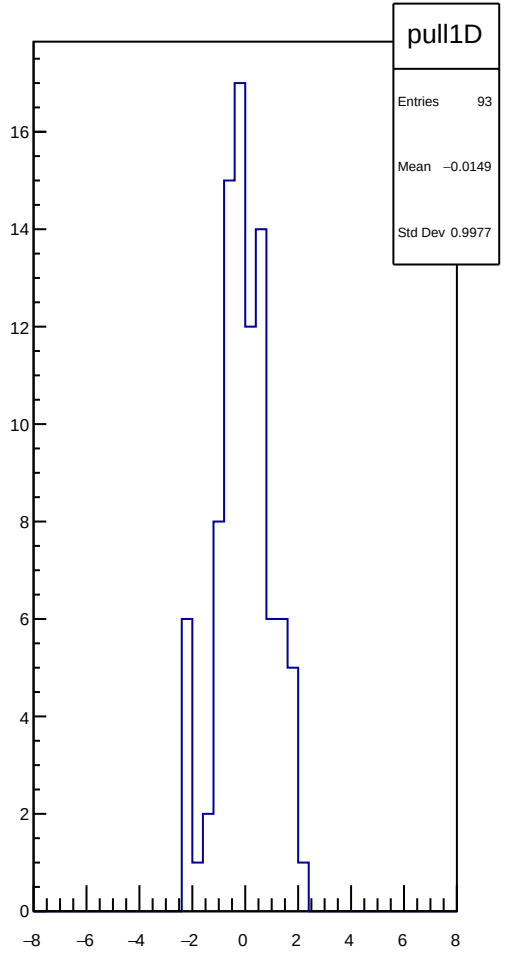

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.012e+04 / 92
p0 124.3 ± 0.09231
240
220
200
180
160
140
120
100

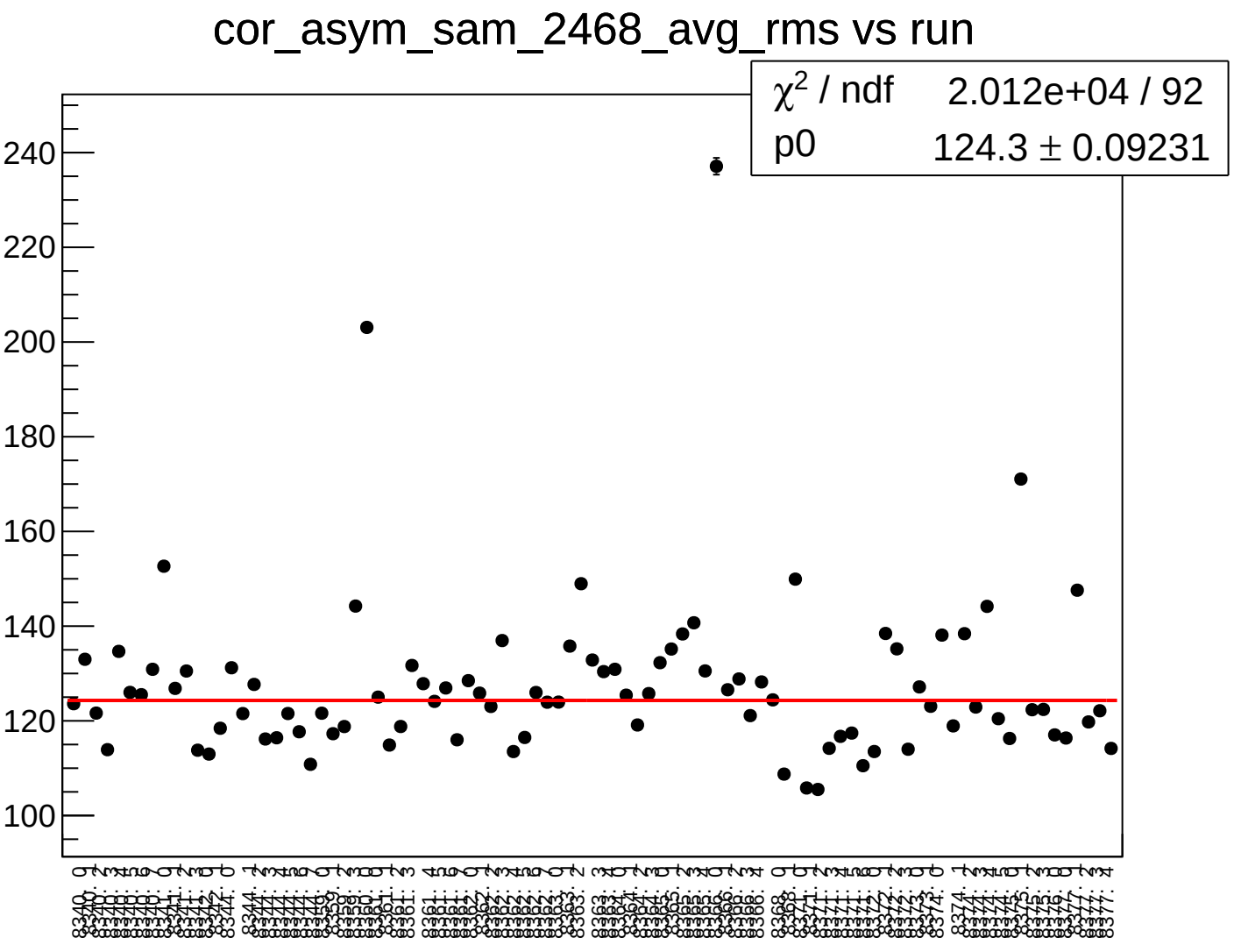

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −3910 ± 1935
pull
Entries 93
Mean −188.1
Std Dev 0

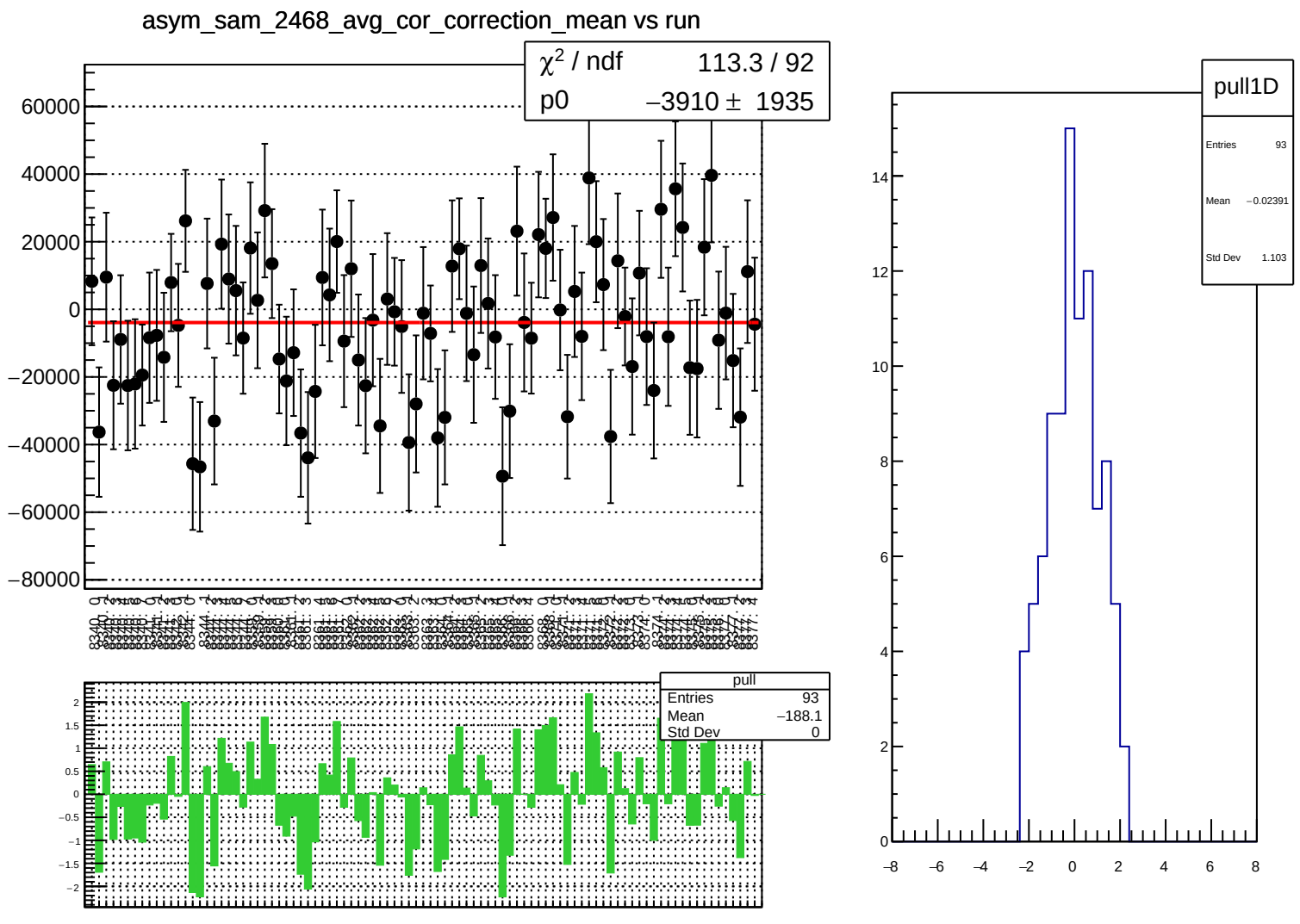

pull1D
Entries 93
Mean −0.02391
Std Dev 1.103

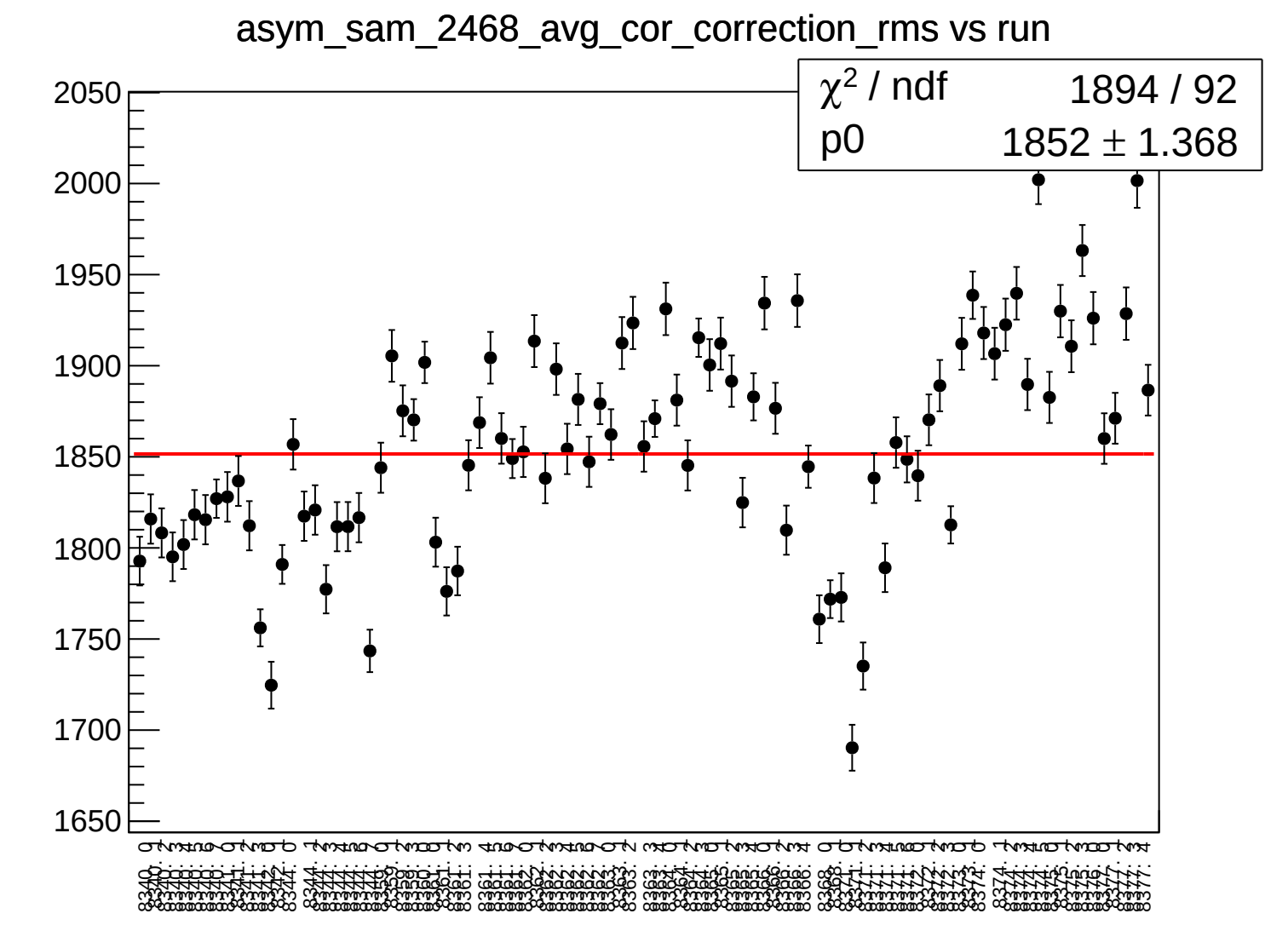

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1894 / 92
p0 1852 ± 1.368
2050
2000
1950
1900
1850
1800
1750
1700
1650

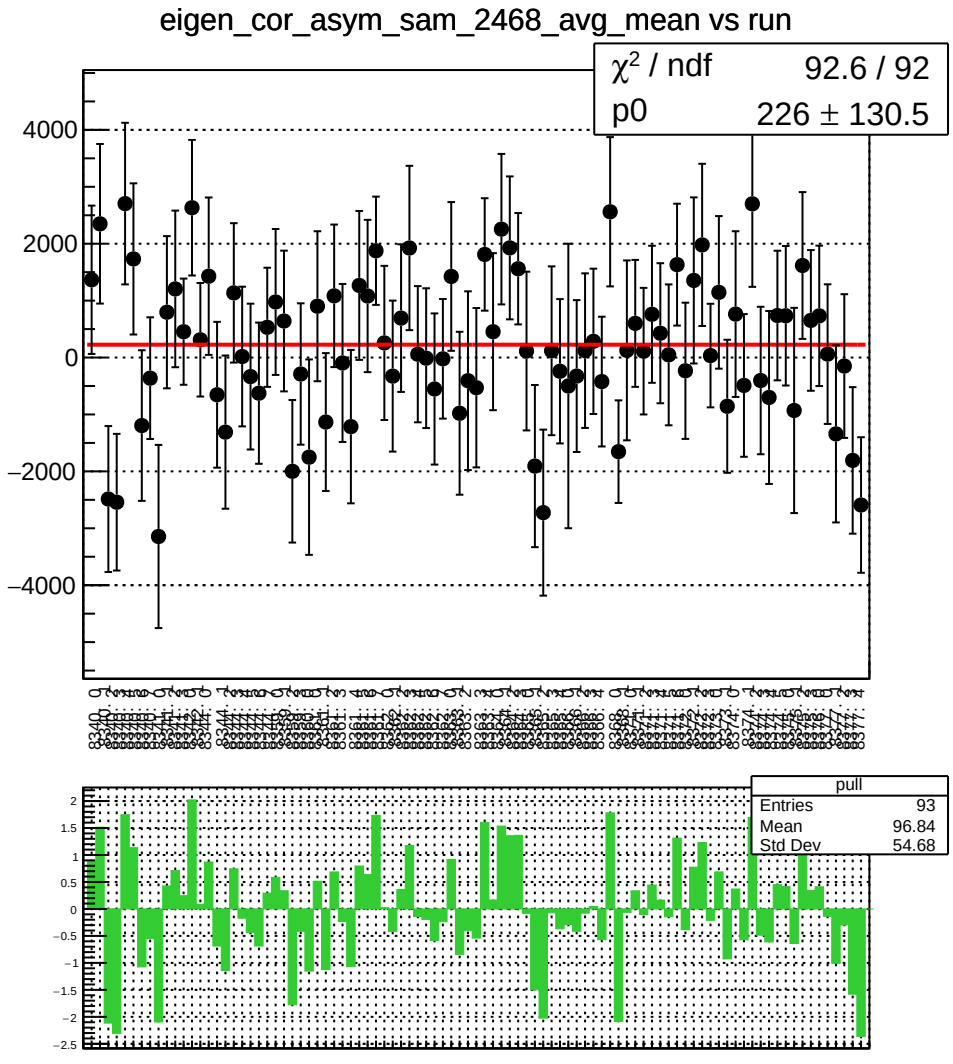

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 92.6 / 92
p0 226 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 96.84
Std Dev 54.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

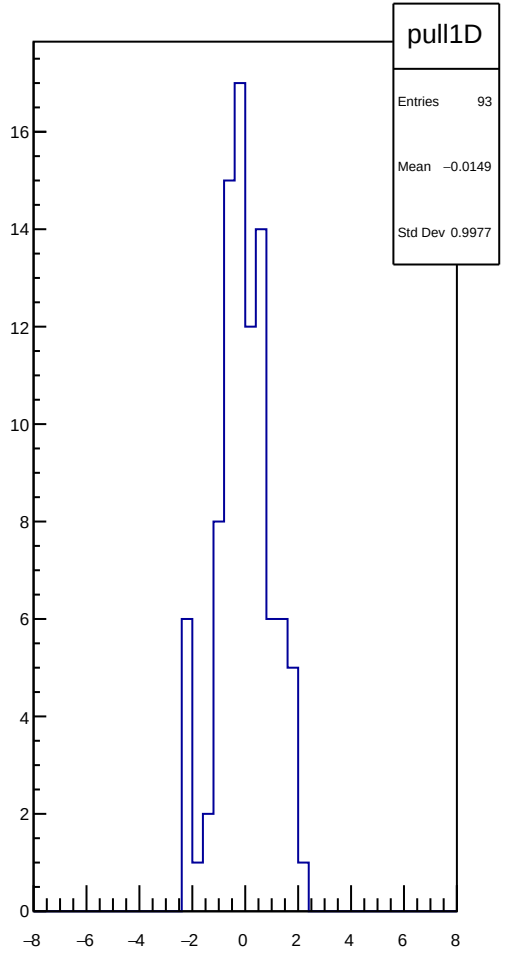

pull1D
Entries 93
Mean −0.0149
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

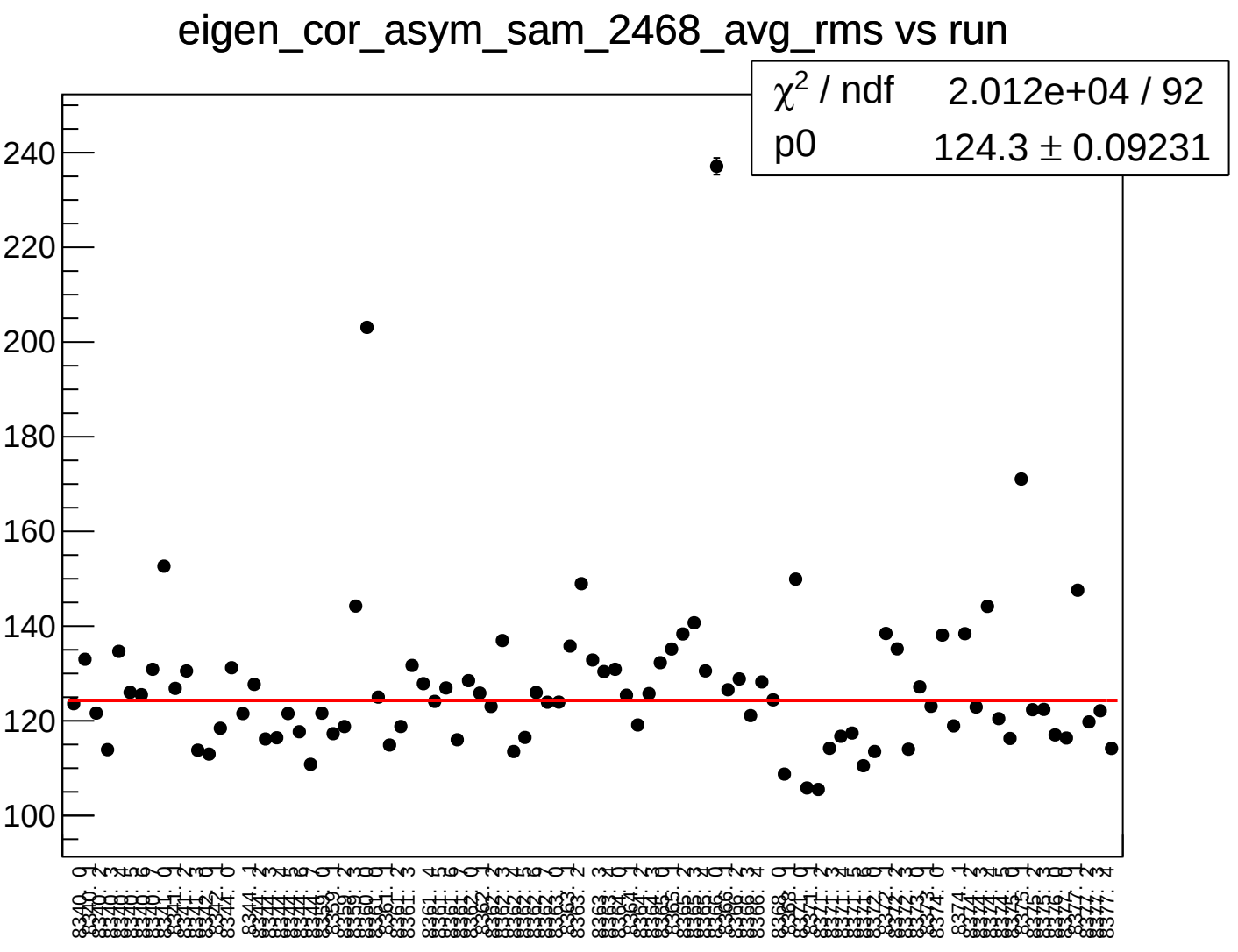

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.012e+04 / 92
p0 124.3 ± 0.09231
240
220
200
180
160
140
120
100

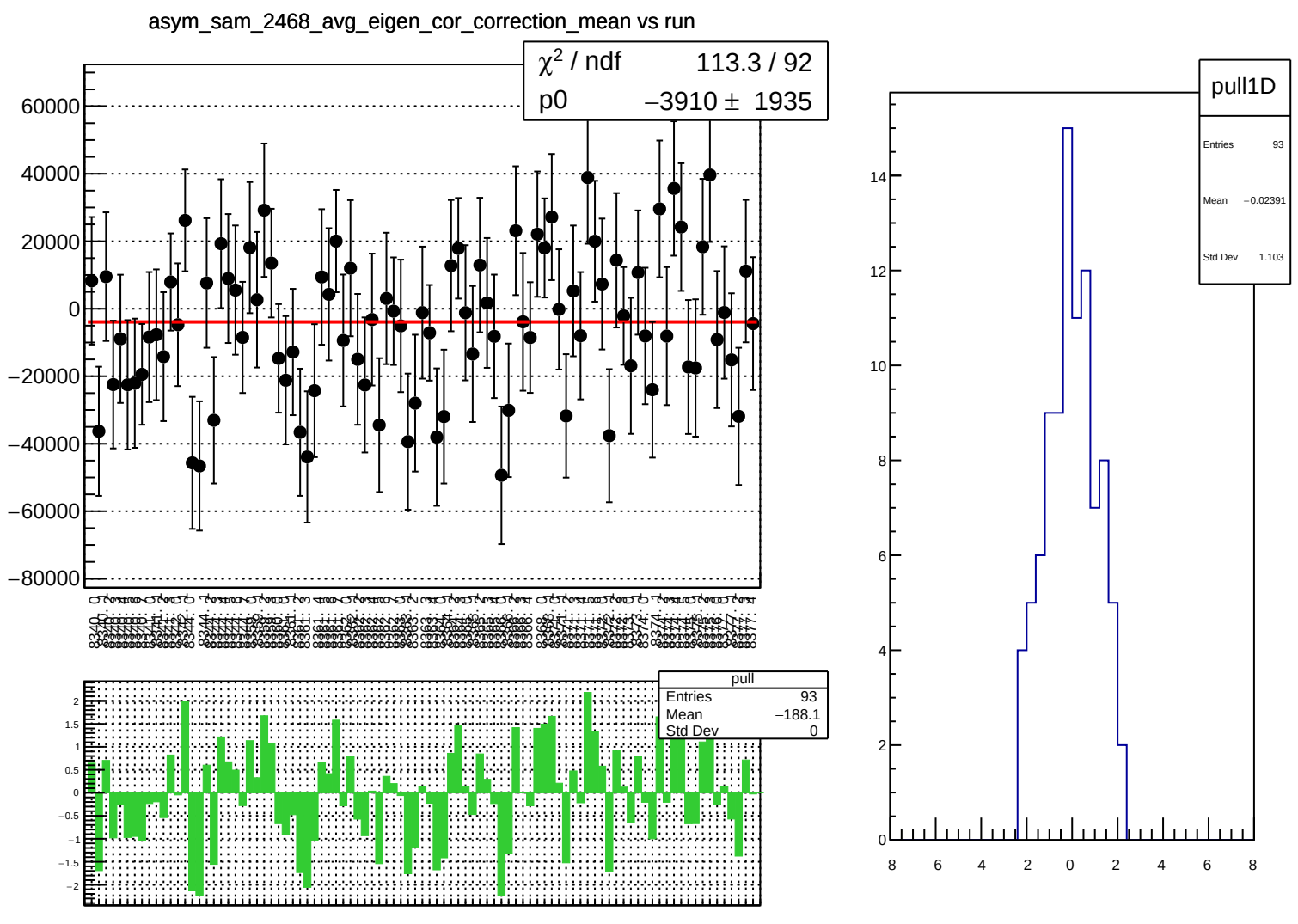

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −3910 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −188.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02391
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

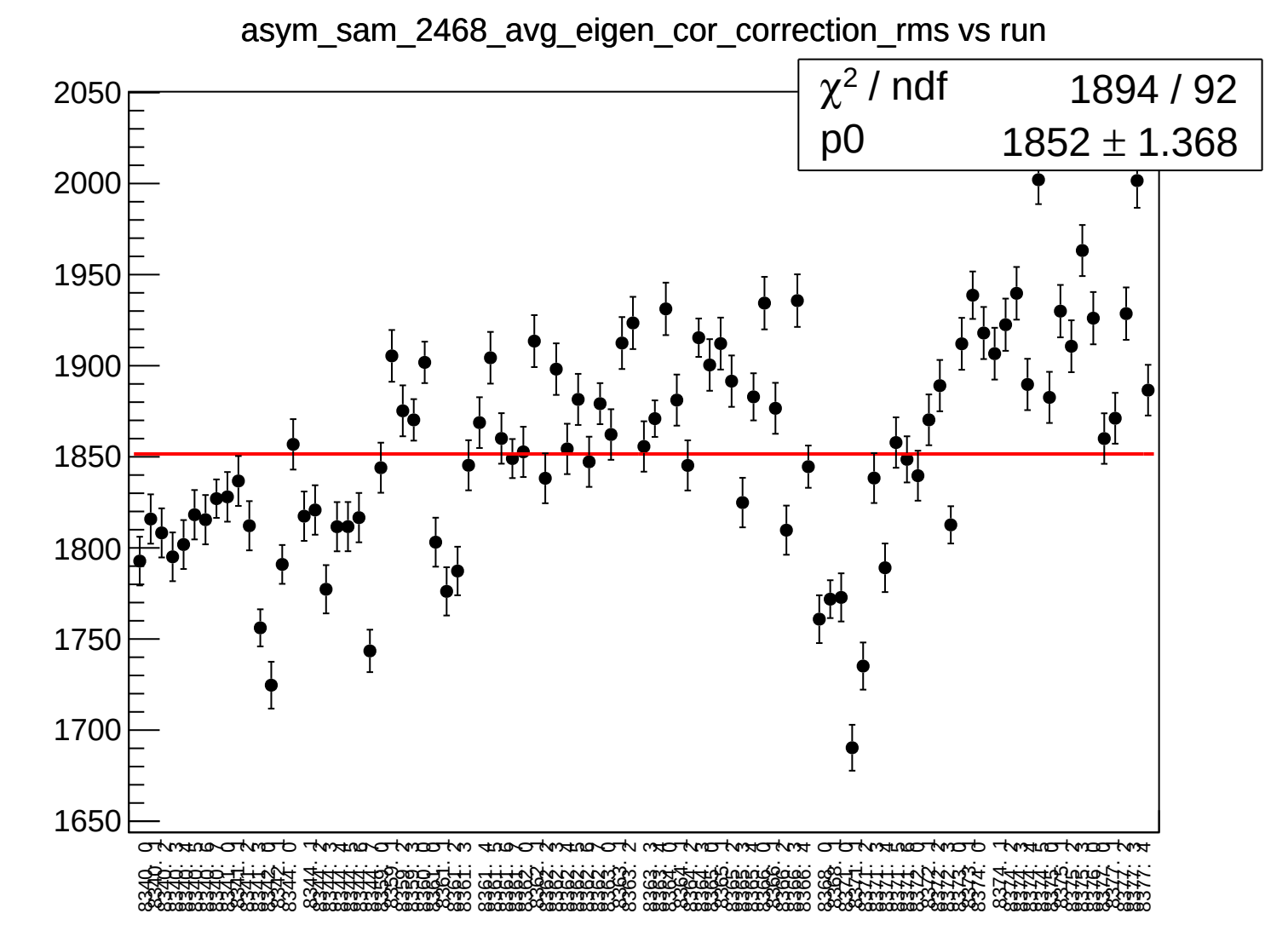

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1894 / 92
p0 1852 ± 1.368
2050
2000
1950
1900
1850
1800
1750
1700
1650

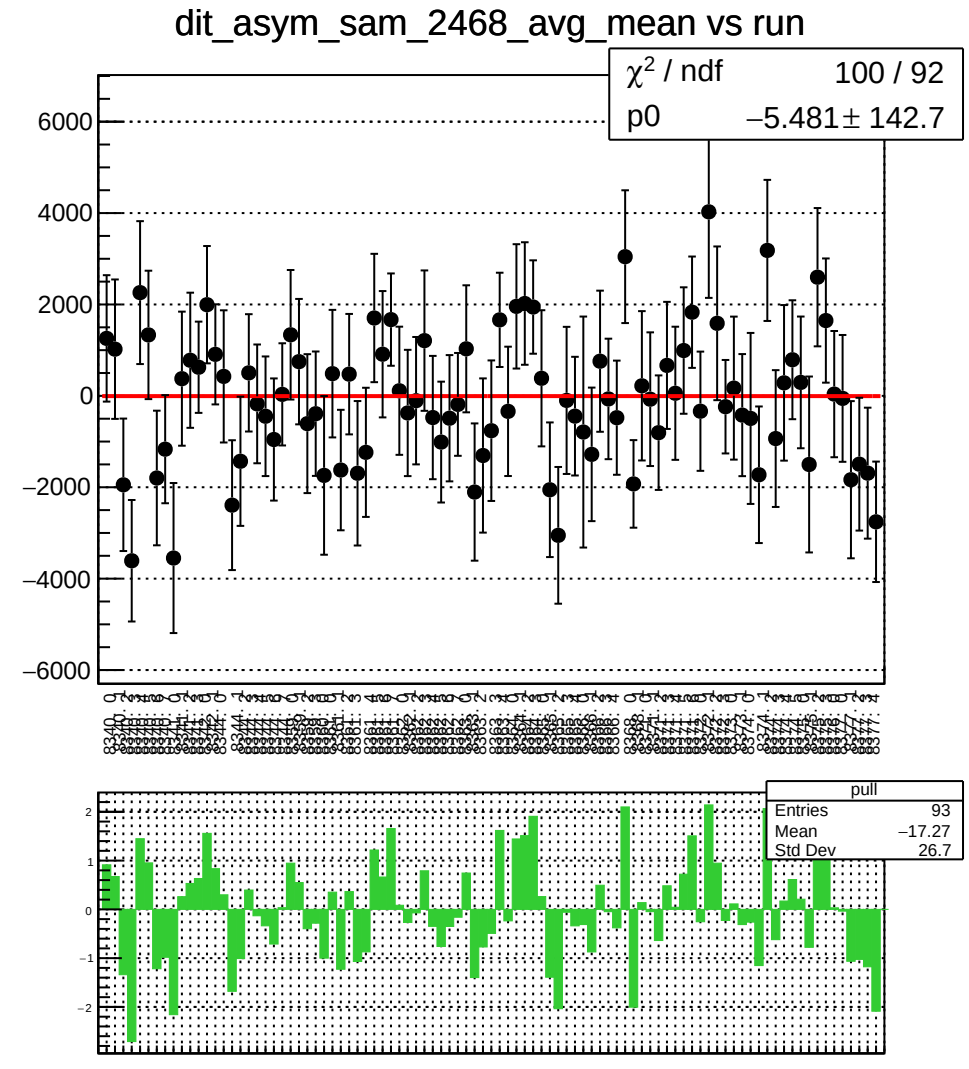

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 92.6 / 92
p0 226 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 96.84
Std Dev 54.68
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

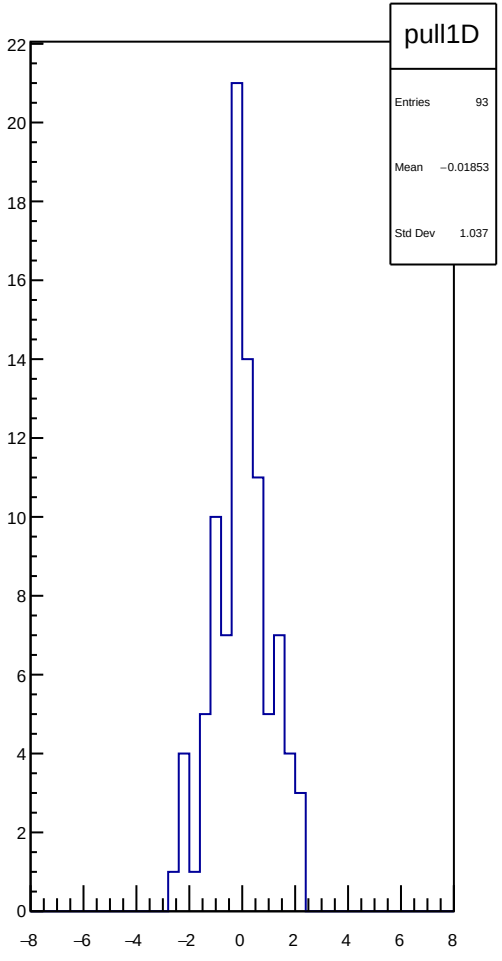

pull1D
Entries 93
Mean −0.0149
Std Dev 0.9977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

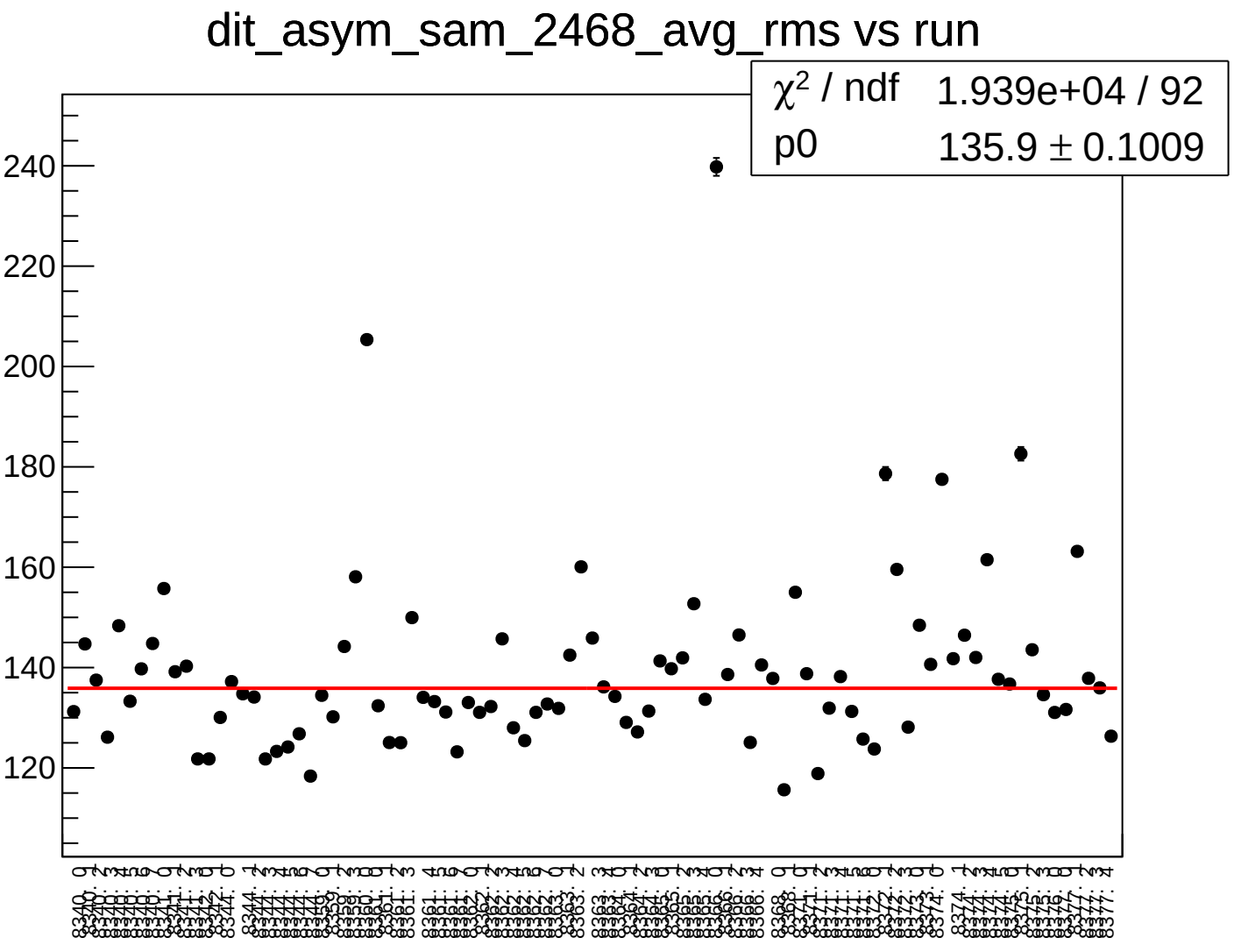

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.012e+04 / 92
p0 124.3 ± 0.09231
240
220
200
180
160
140
120
100

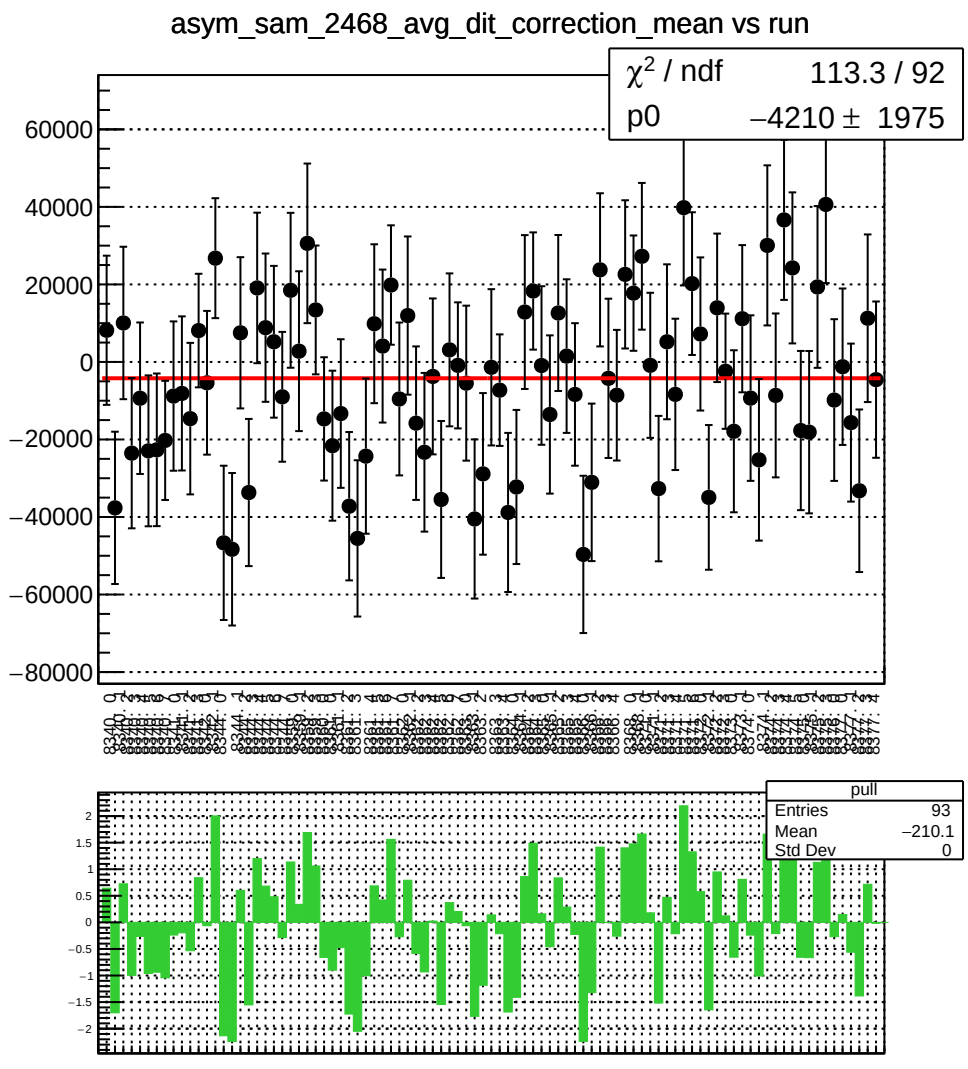

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −3910 ± 1935
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −188.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02391
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

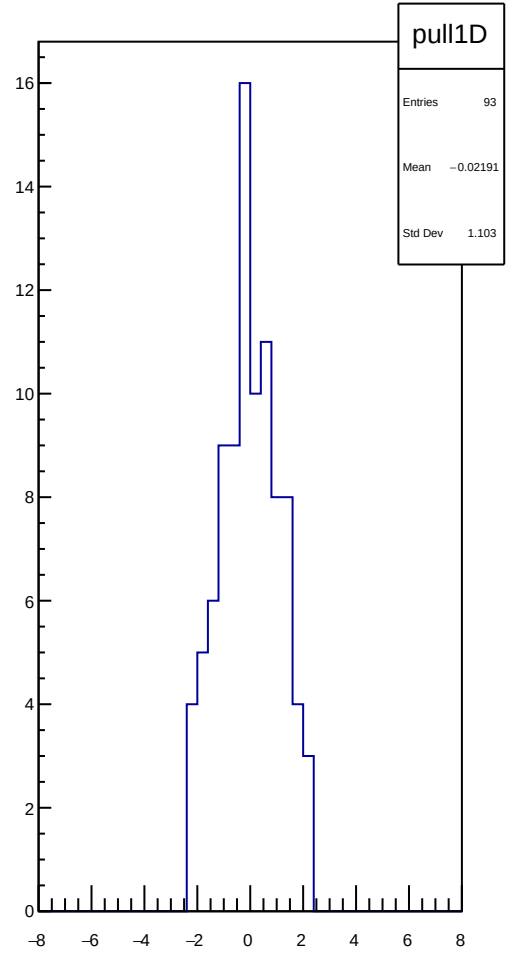

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1894 / 92
p0 1852 ± 1.368
2050
2000
1950
1900
1850
1800
1750
1700
1650

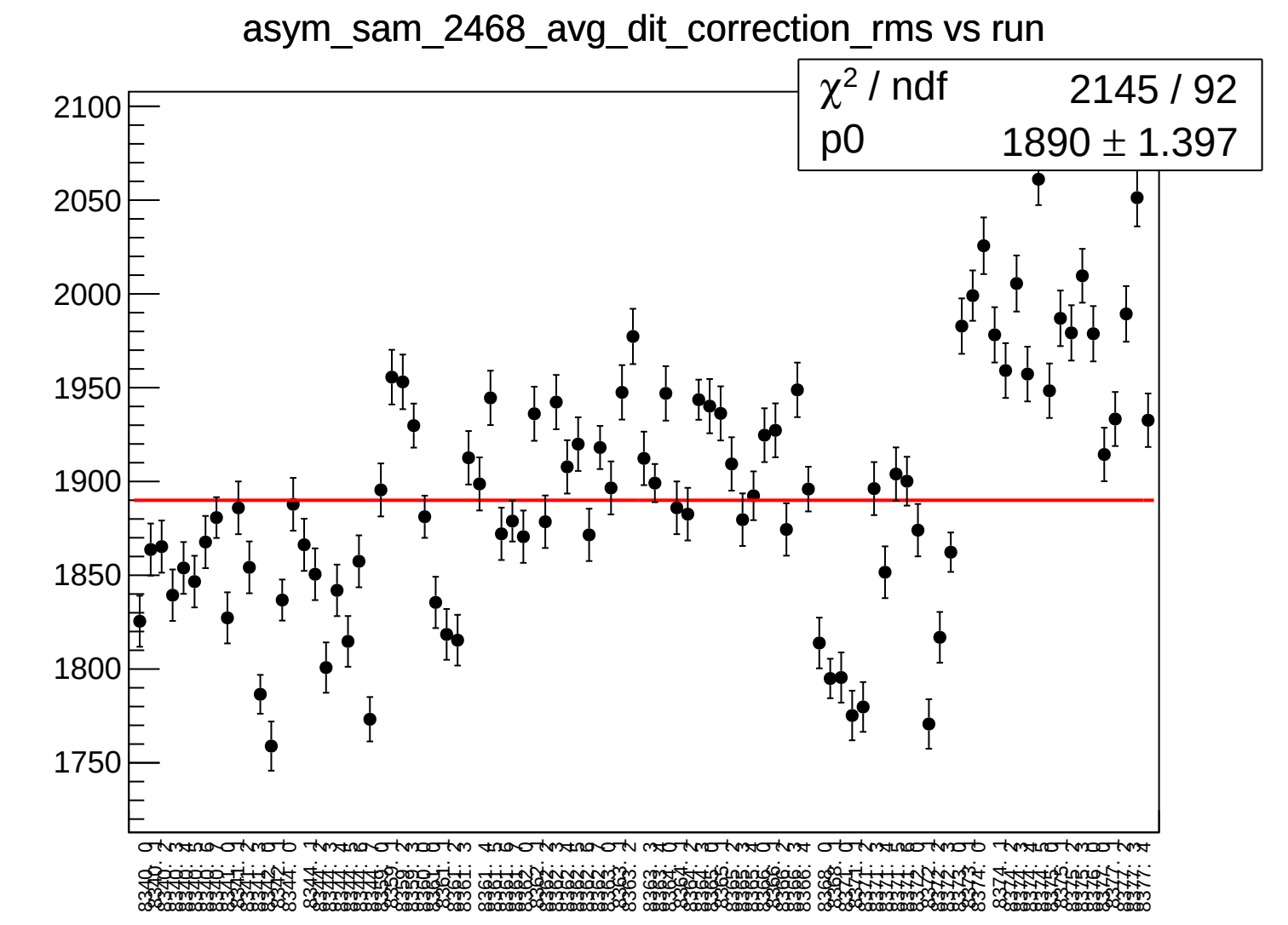

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100 / 92
p0 −5.481 ± 142.7
pull
Entries 93
Mean −17.27
Std Dev 26.7

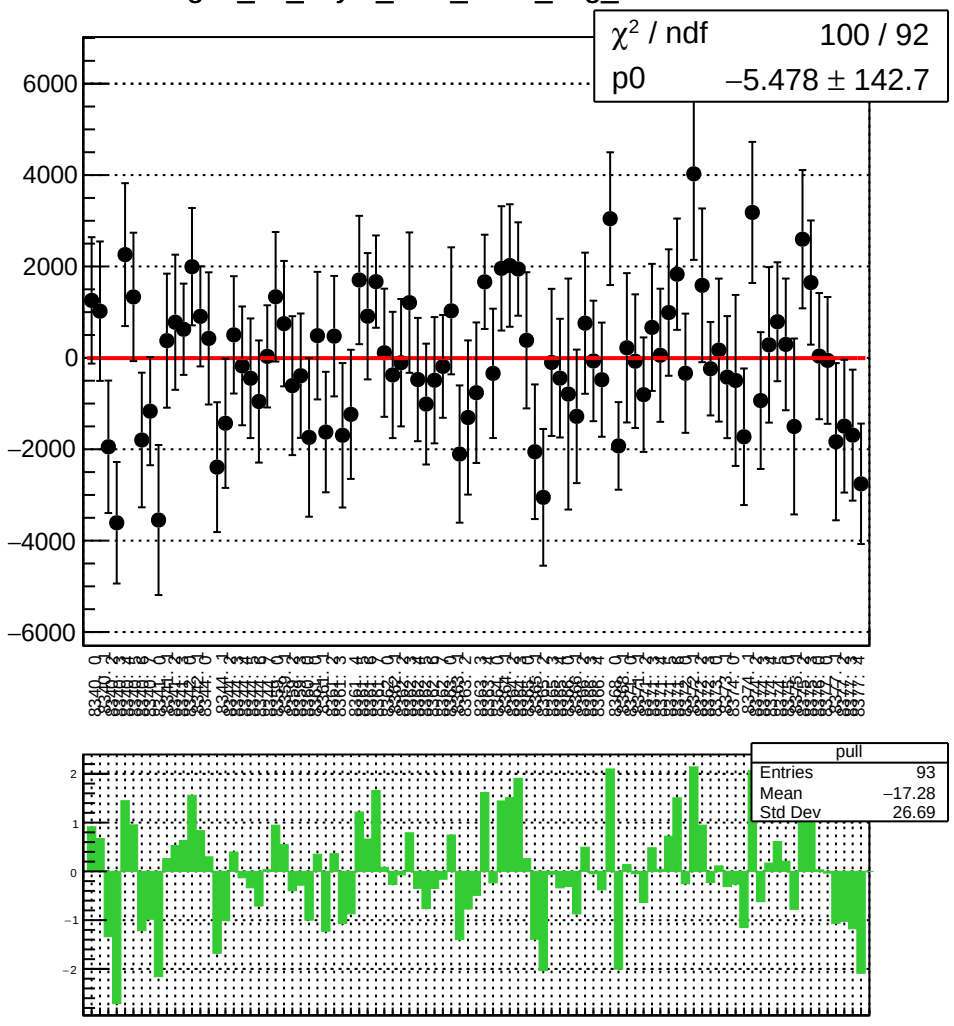

pull1D
Entries 93
Mean −0.01853
Std Dev 1.037

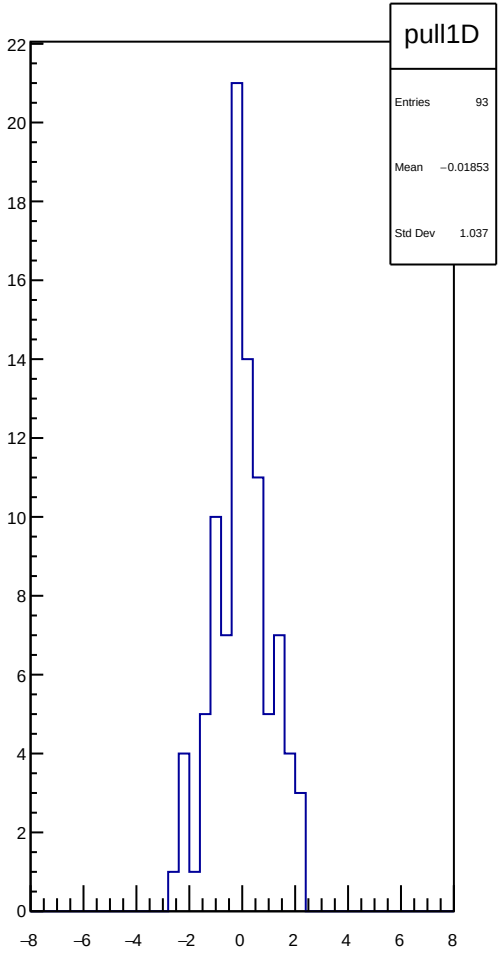

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.939e+04 / 92
p0 135.9 ± 0.1009
240
220
200
180
160
140
120

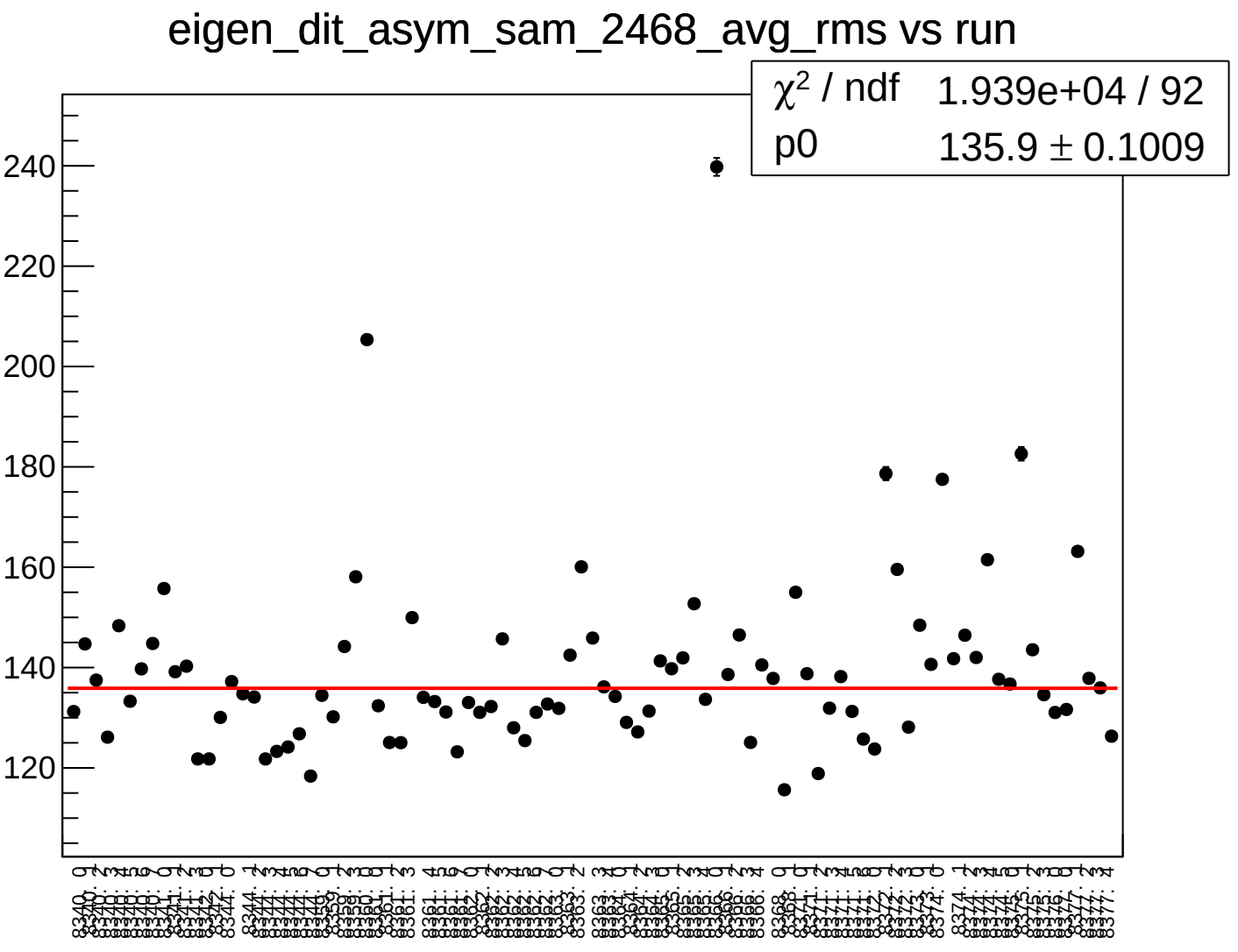

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −4210 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −210.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

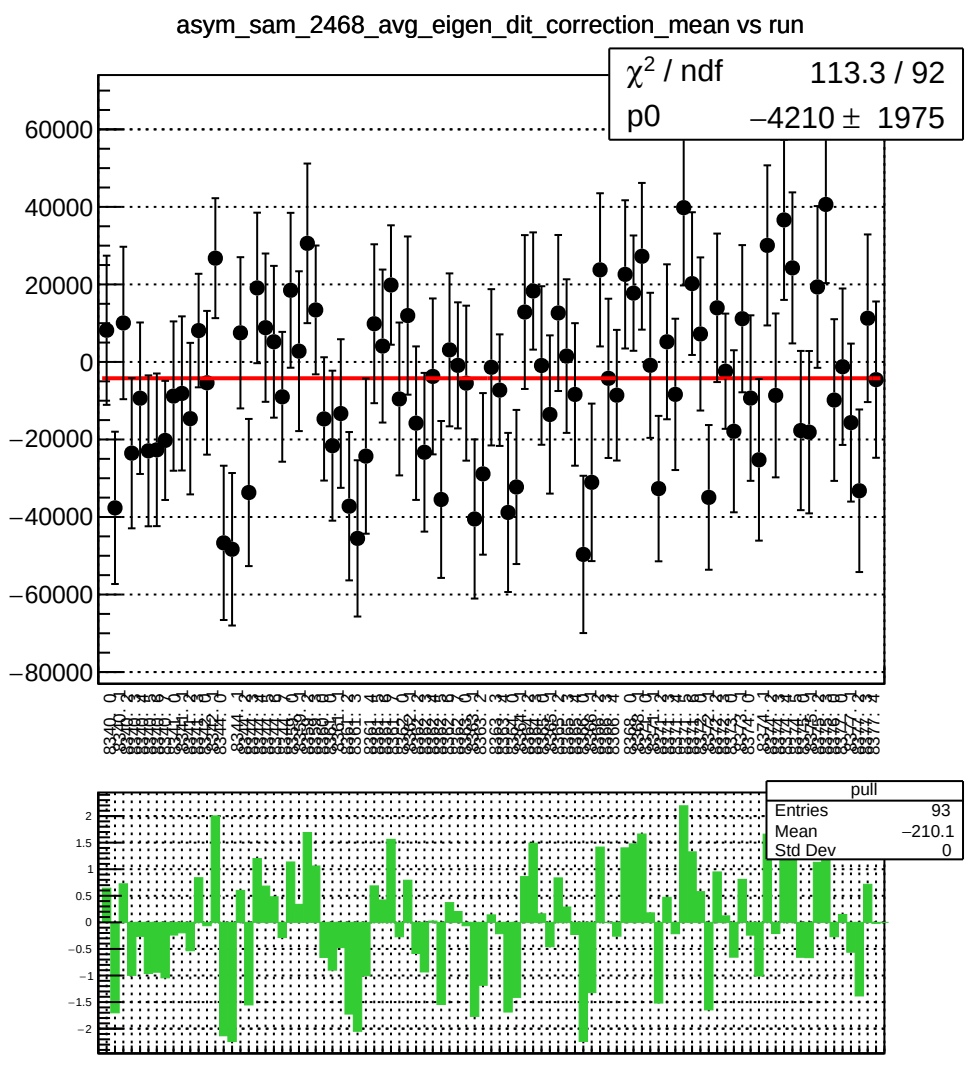

pull1D
Entries 93
Mean −0.02191
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

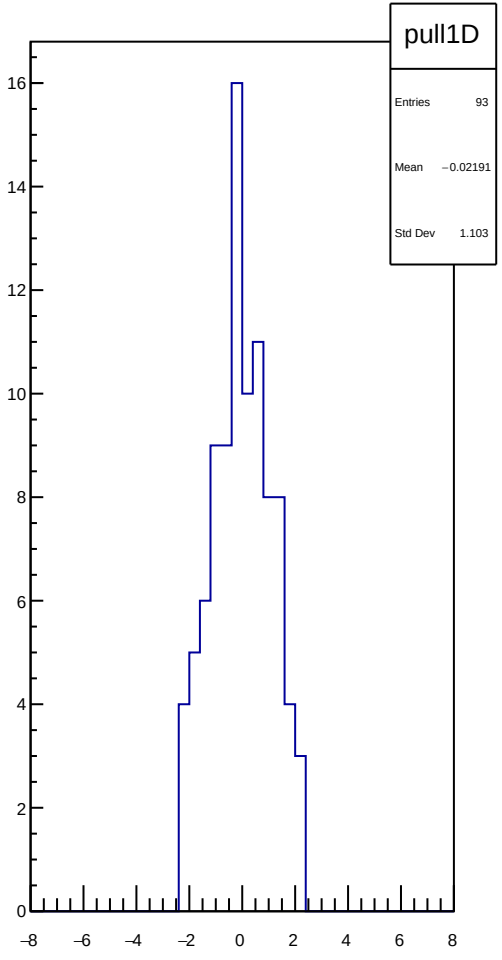

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2145 / 92
p0 1890 ± 1.397
2100
2050
2000
1950
1900
1850
1800
1750

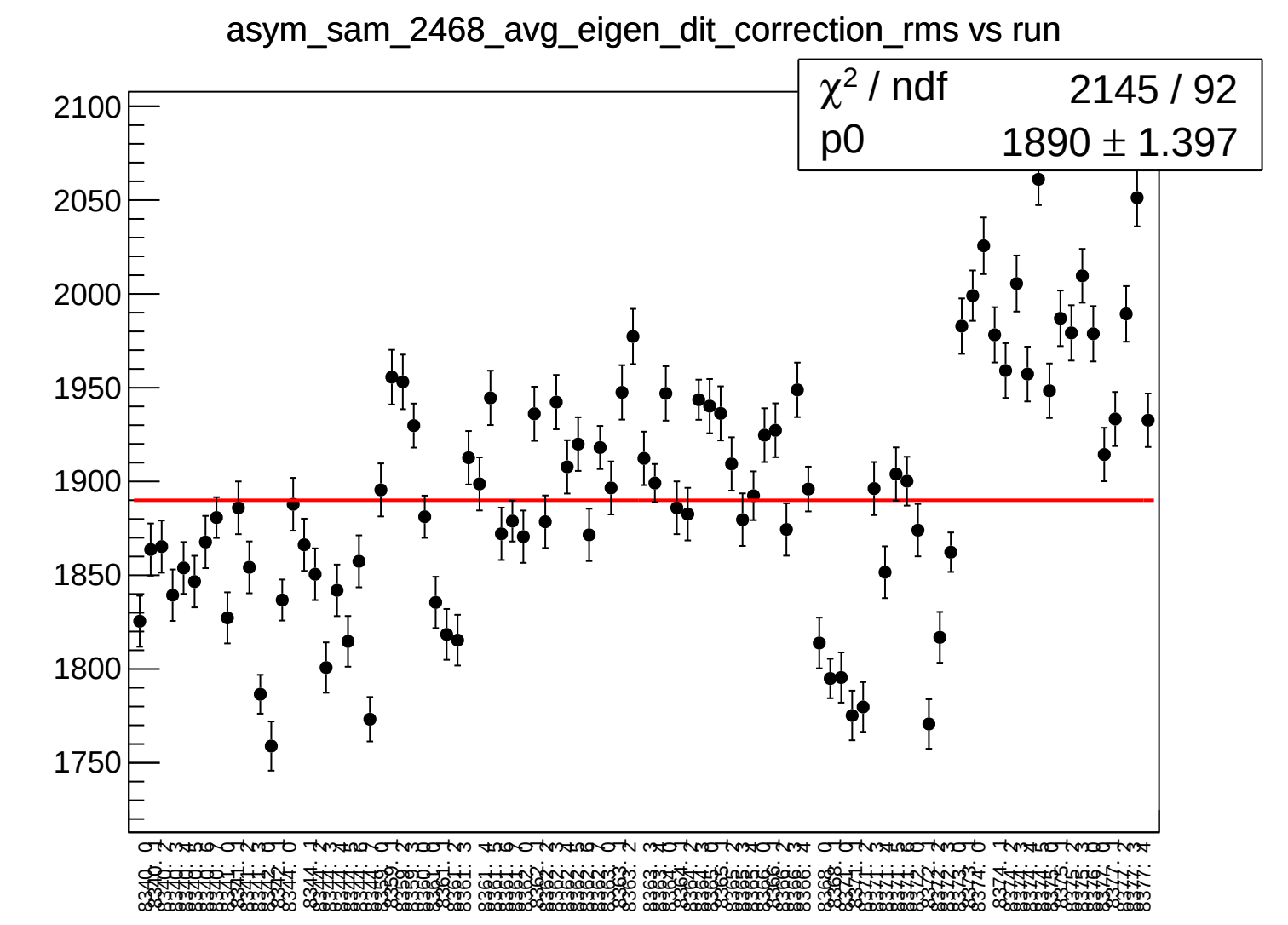

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100 / 92
p0 −5.478 ± 142.7
pull
Entries 93
Mean −17.28
Std Dev 26.69

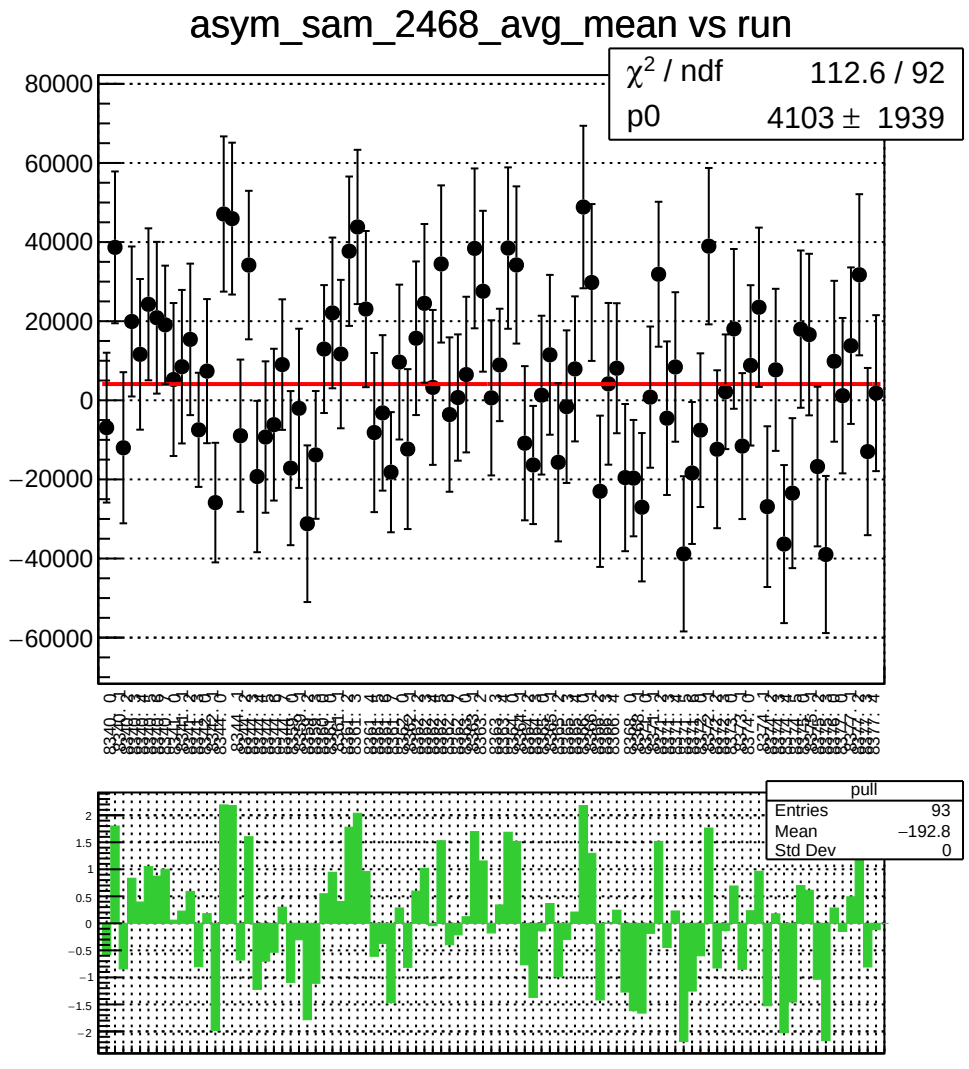

pull1D
Entries 93
Mean −0.01853
Std Dev 1.037

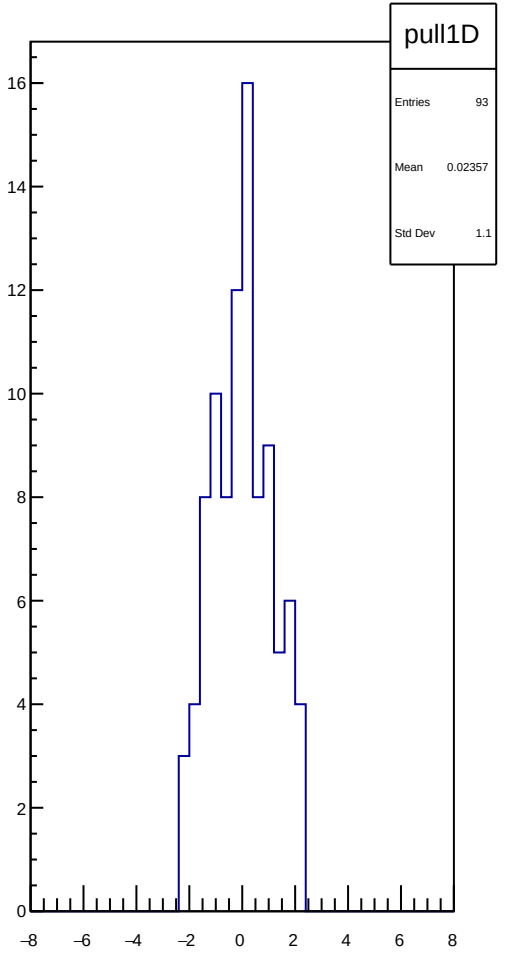

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.939e+04 / 92
p0 135.9 ± 0.1009
240
220
200
180
160
140
120

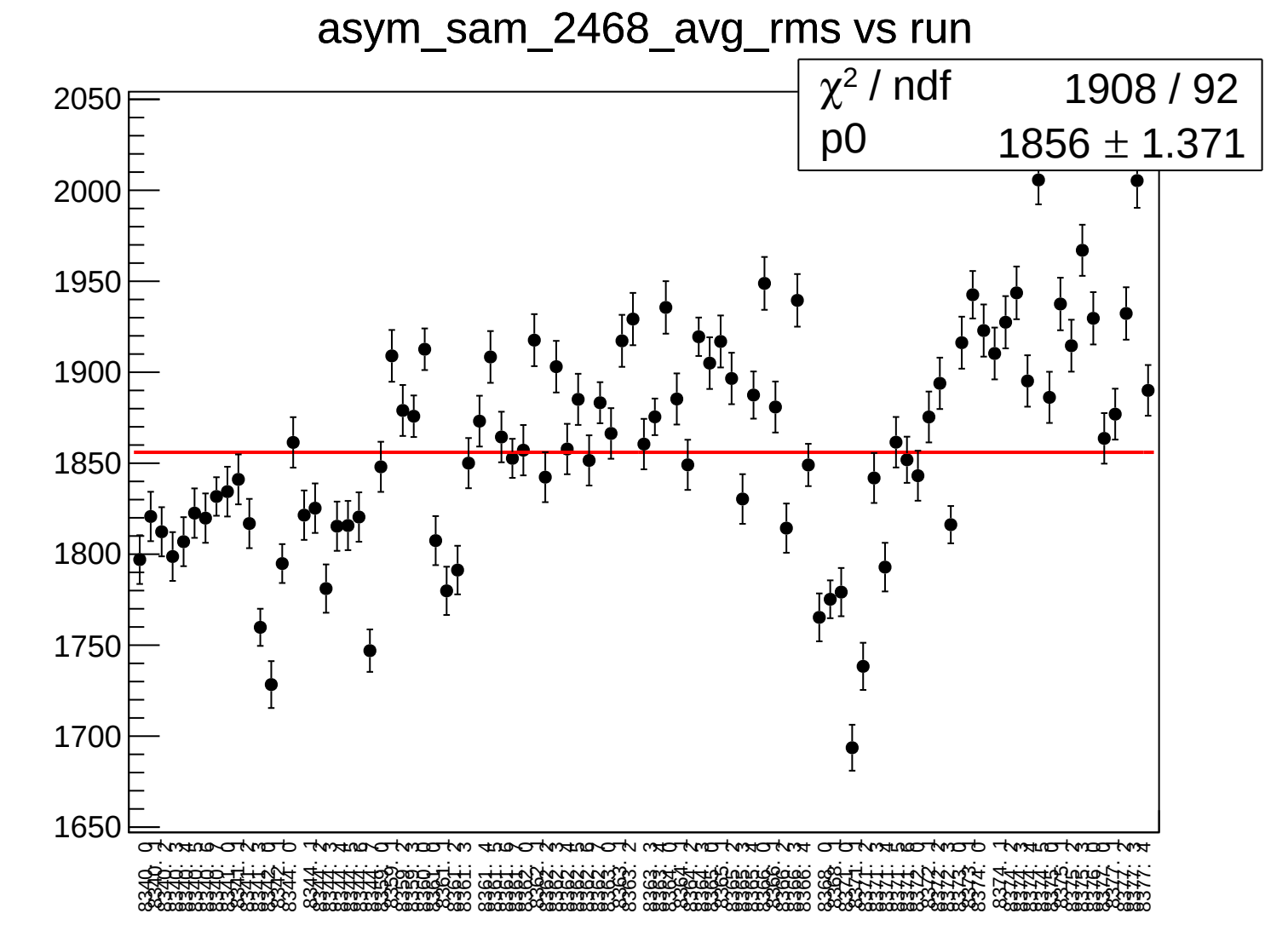

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 −4210 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −210.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

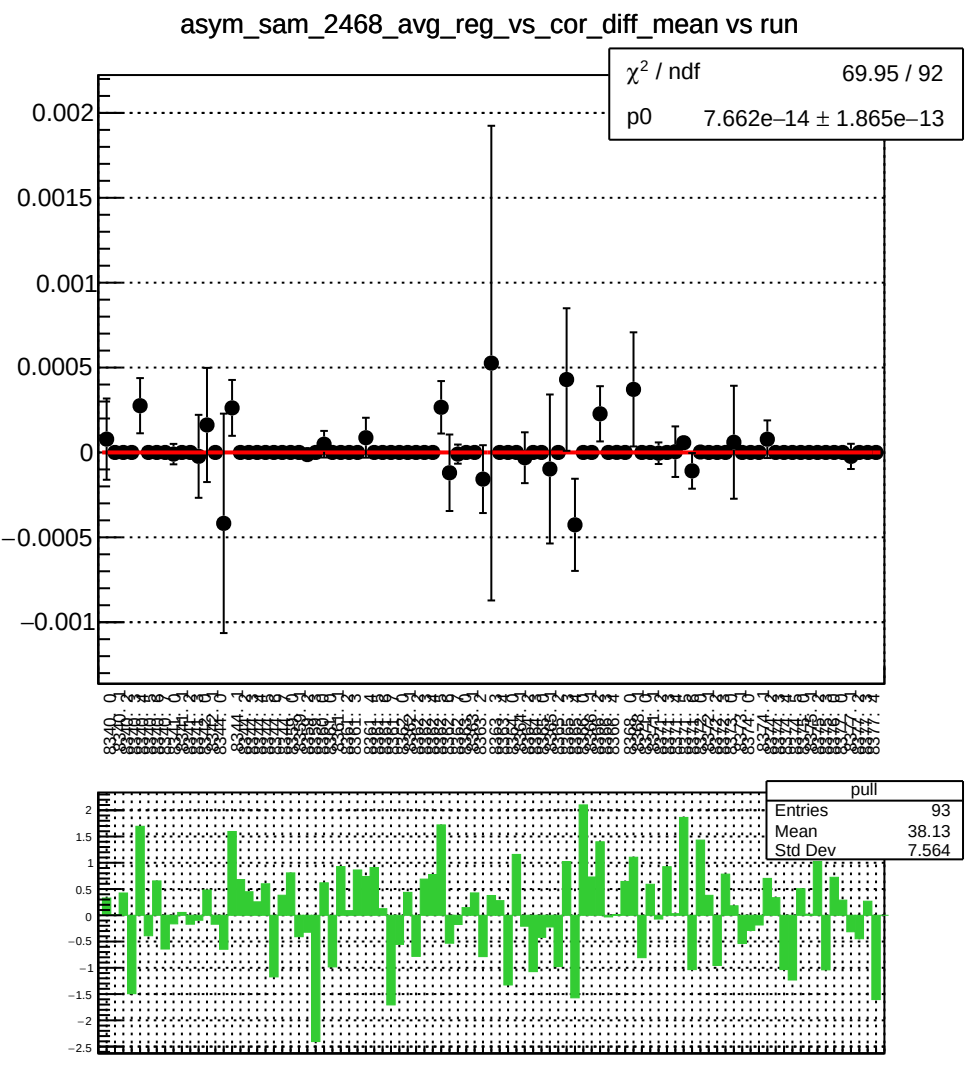

pull1D
Entries 93
Mean −0.02191
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

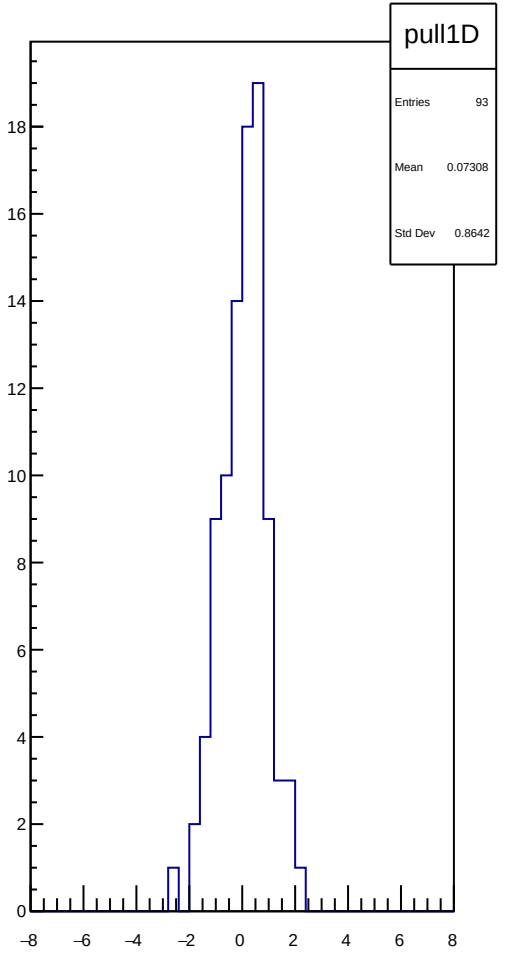

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 2145 / 92
p0 1890 ± 1.397
2100
2050
2000
1950
1900
1850
1800
1750

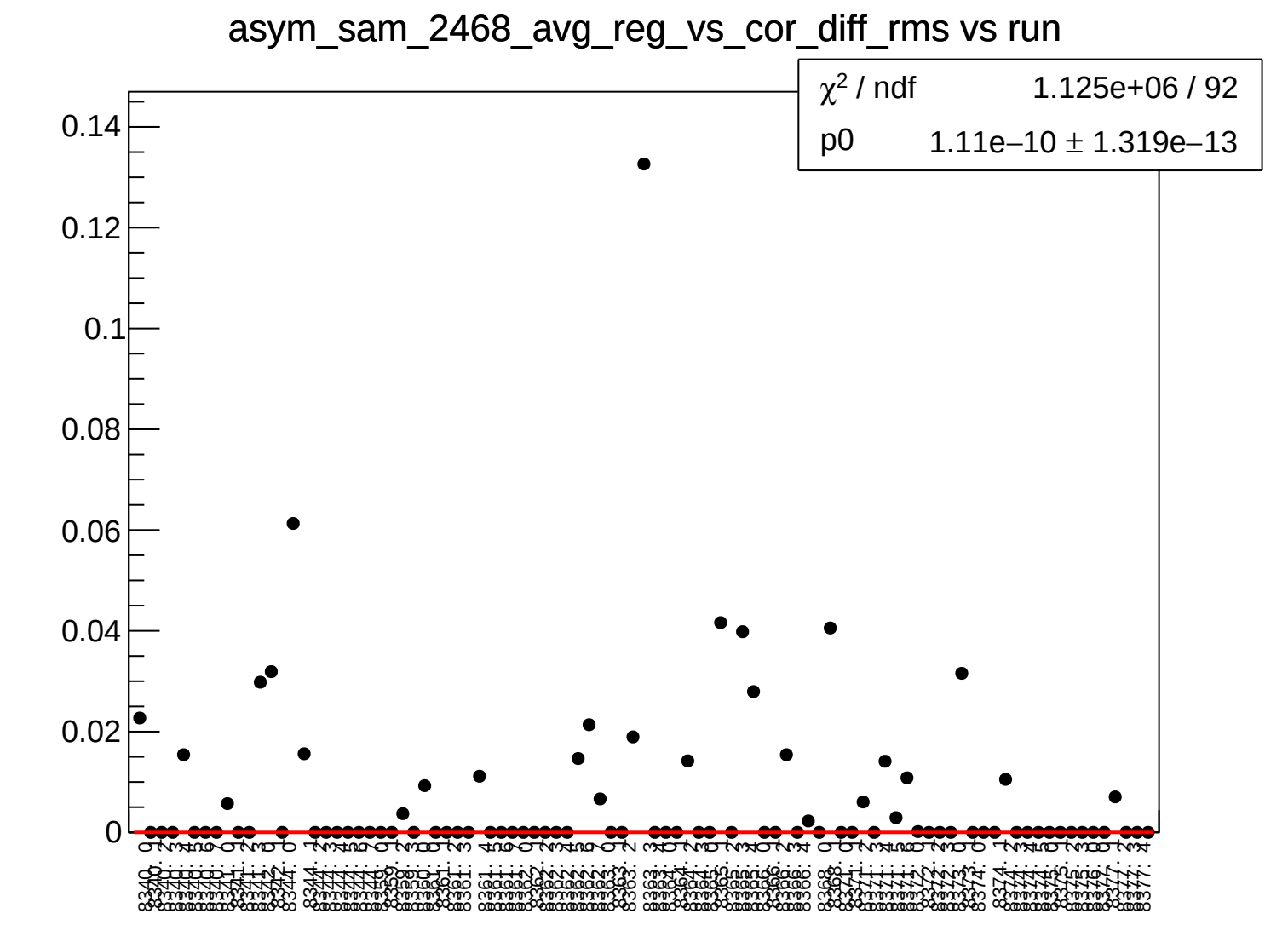

asym_sam_2468_avg_mean vs run
χ² / ndf 112.6 / 92
p0 4103 ± 1939
pull
Entries 93
Mean −192.8
Std Dev 0

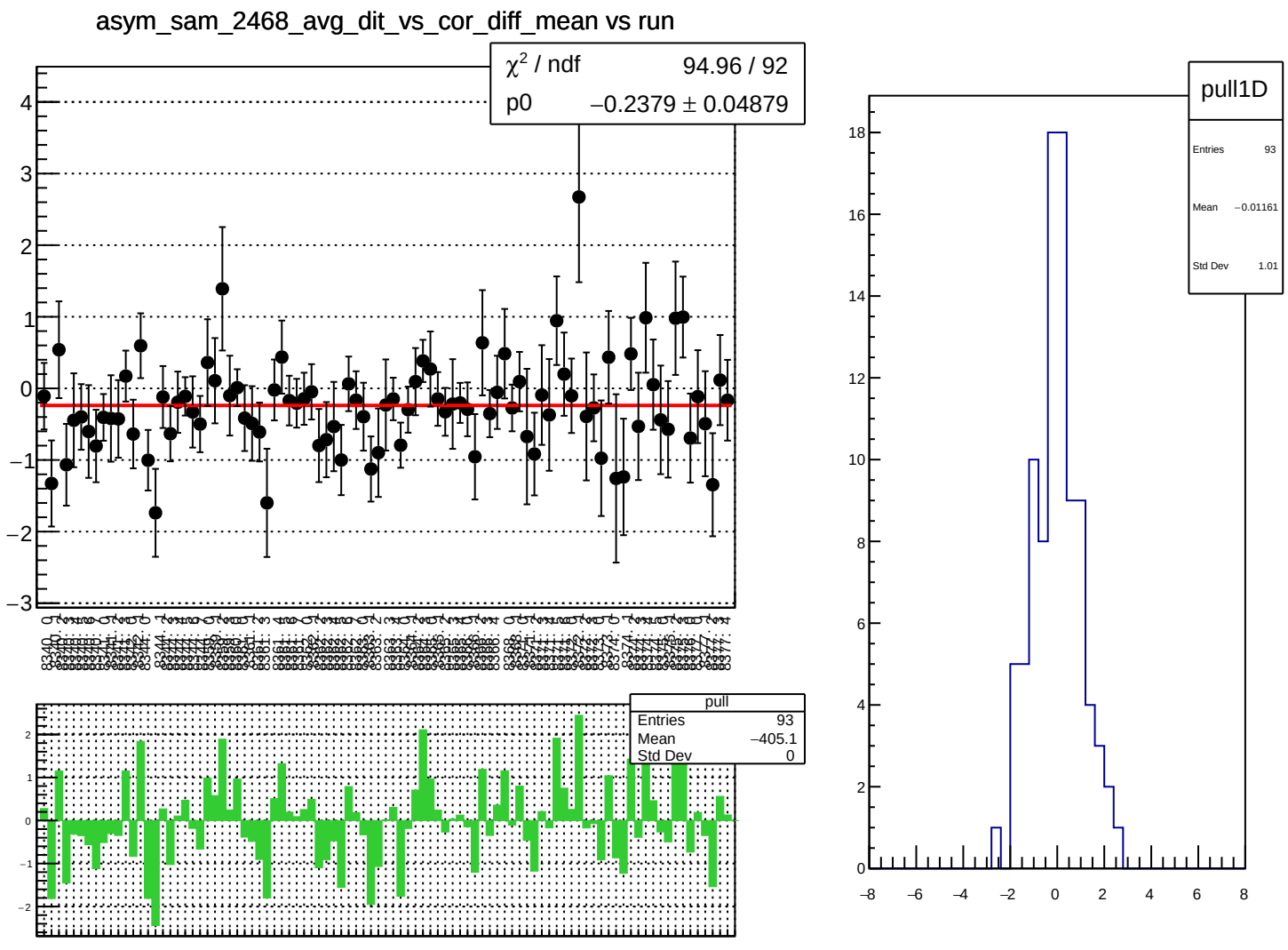

pull1D
Entries 93
Mean 0.02357
Std Dev 1.1

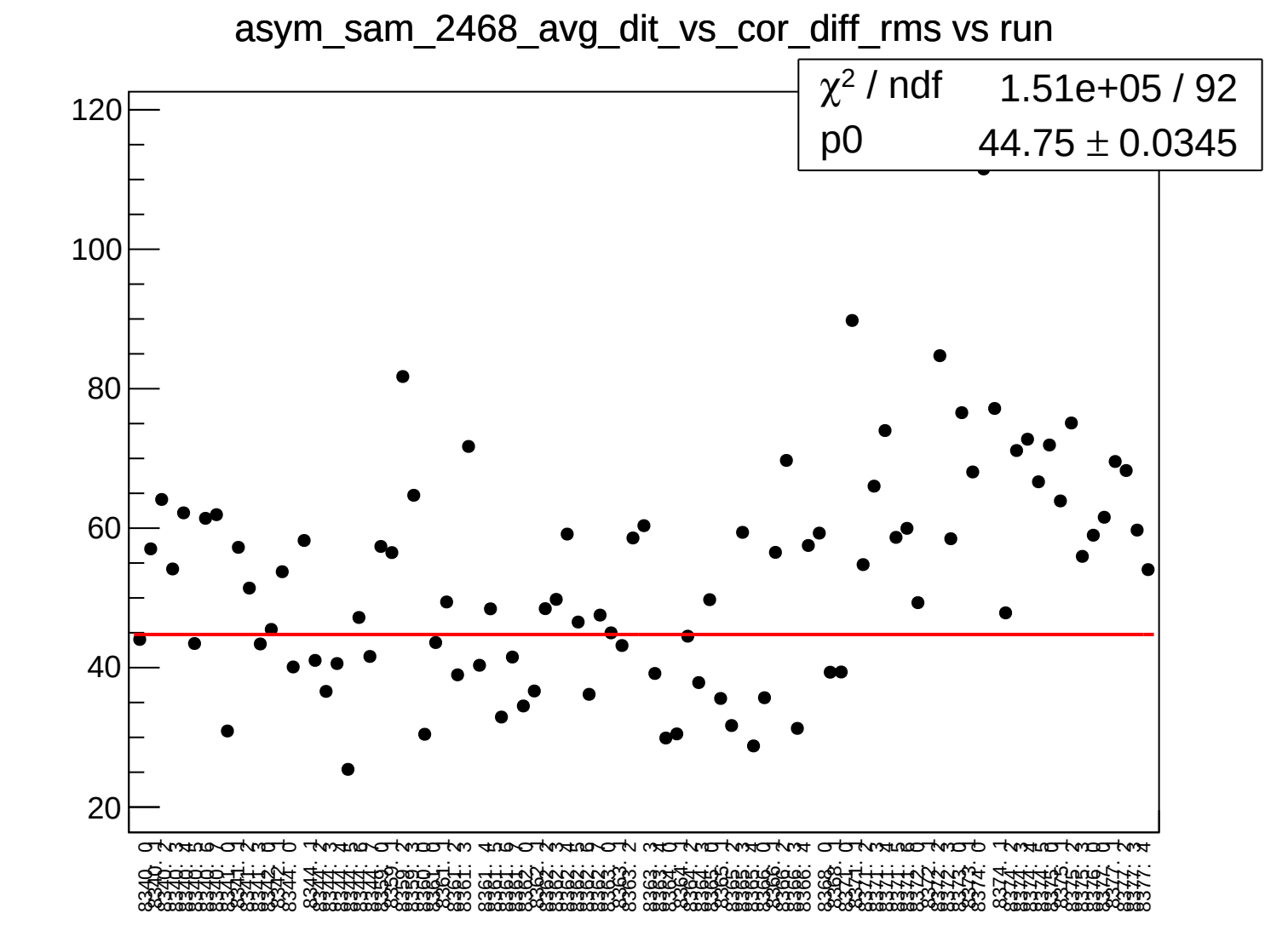

asym_sam_2468_avg_rms vs run
χ² / ndf 1908 / 92
p0 1856 ± 1.371
2050
2000
1950
1900
1850
1800
1750
1700
1650

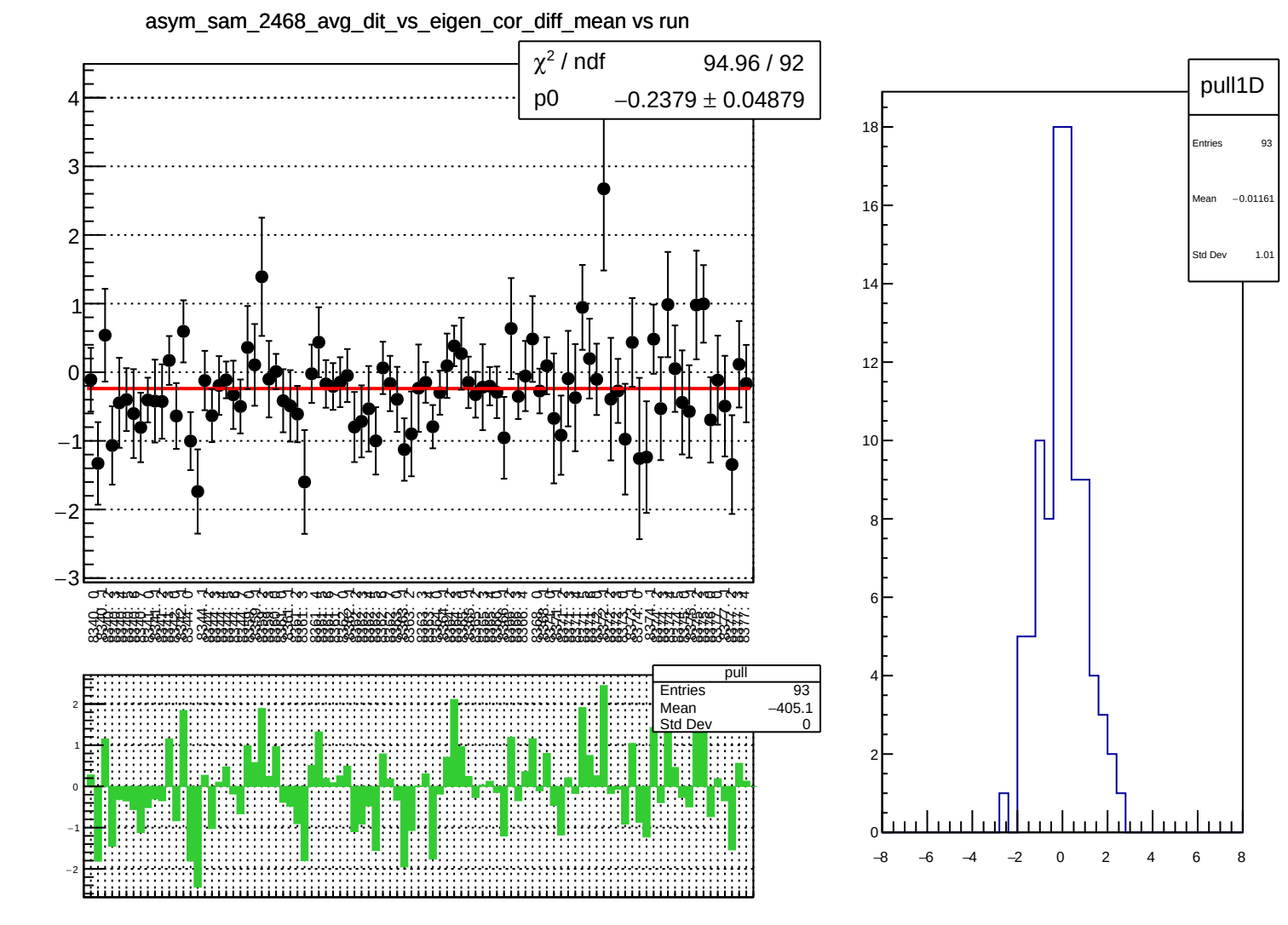

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.95 / 92
p0 7.662e−14 ± 1.865e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 38.13
Std Dev 7.564
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

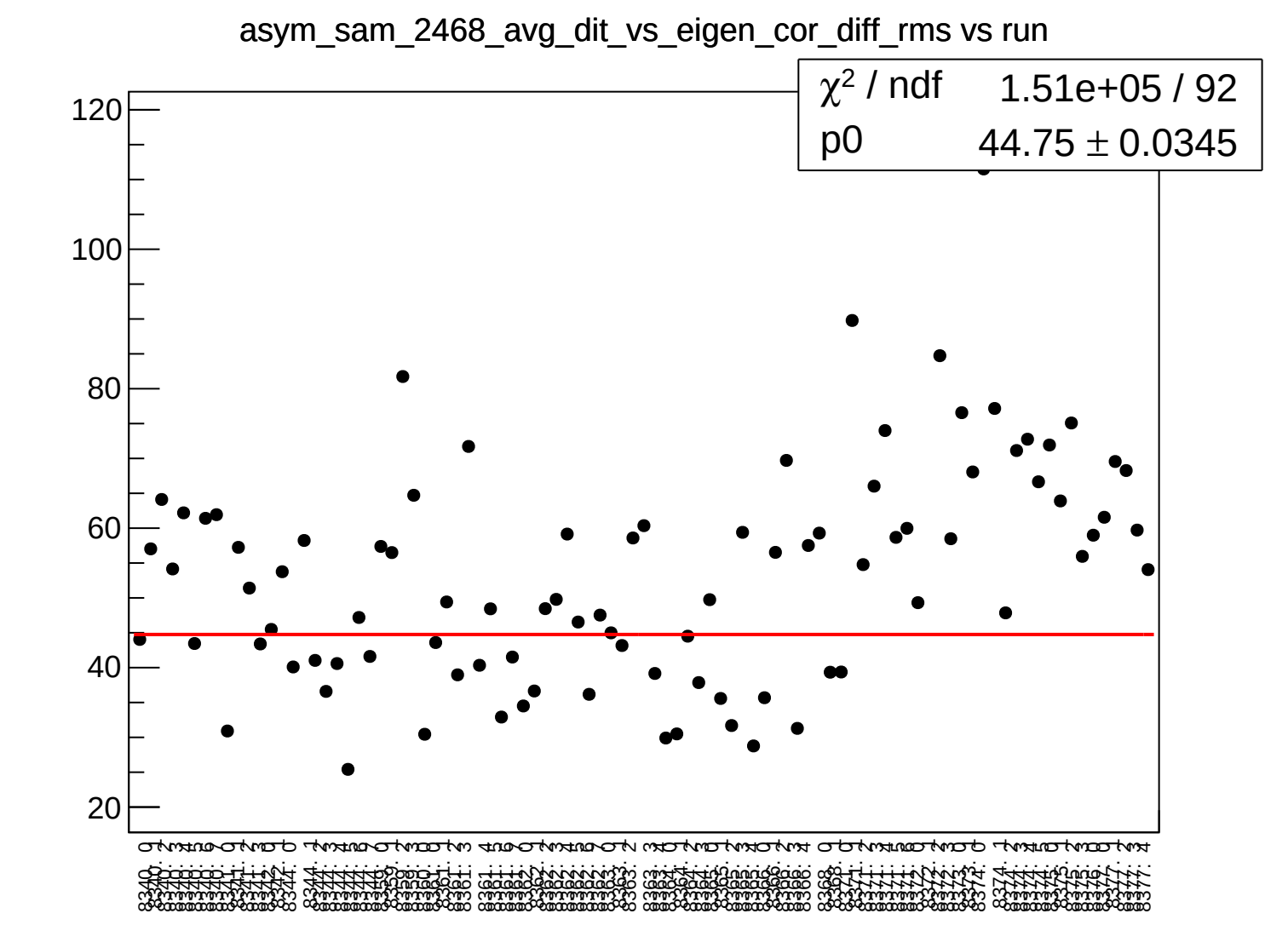

pull1D
Entries 93
Mean 0.07308
Std Dev 0.8642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

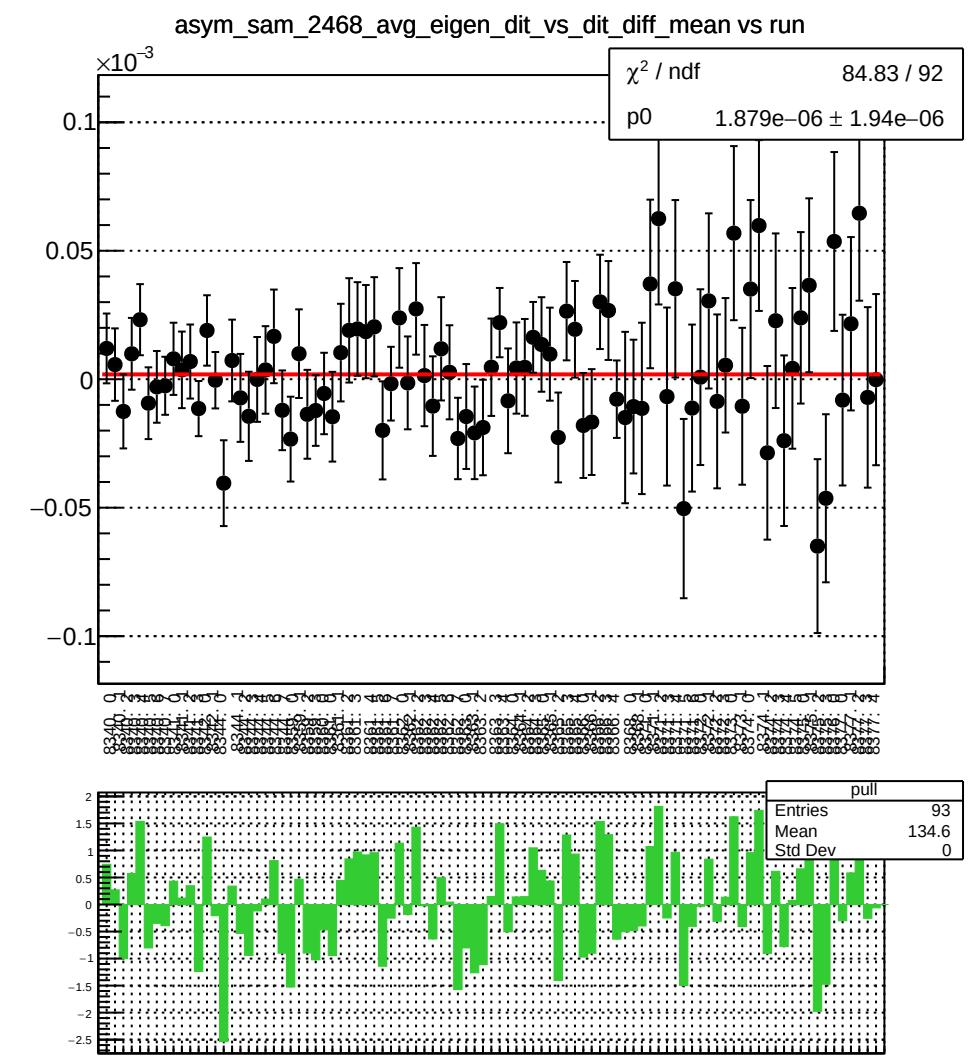

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 92
p0 1.11e−10 ± 1.319e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

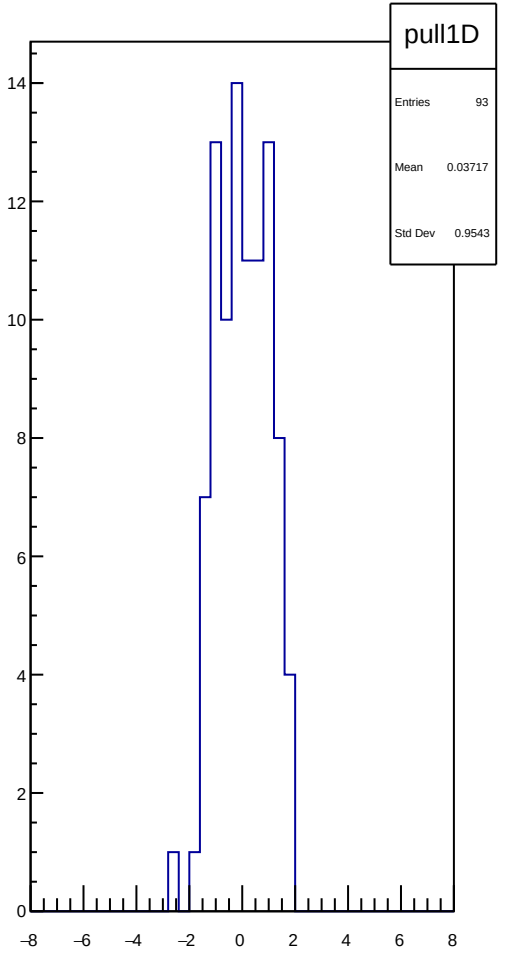

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2379 ± 0.04879
pull
Entries 93
Mean −405.1
Std Dev 0
pull1D
Entries 93
Mean −0.01161
Std Dev 1.01

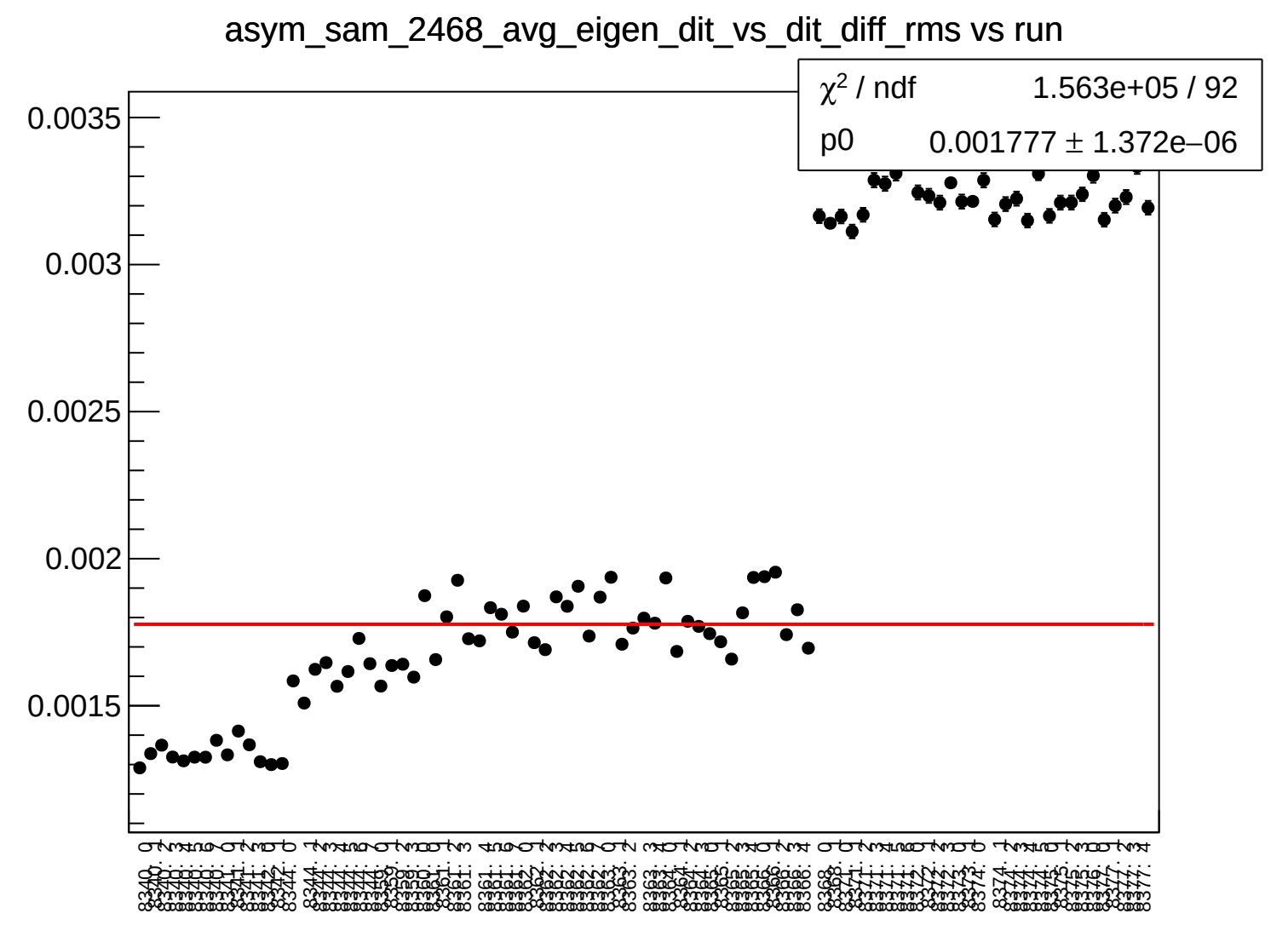

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.51e+05 / 92
p0 44.75 ± 0.0345
120
100
80
60
40
20

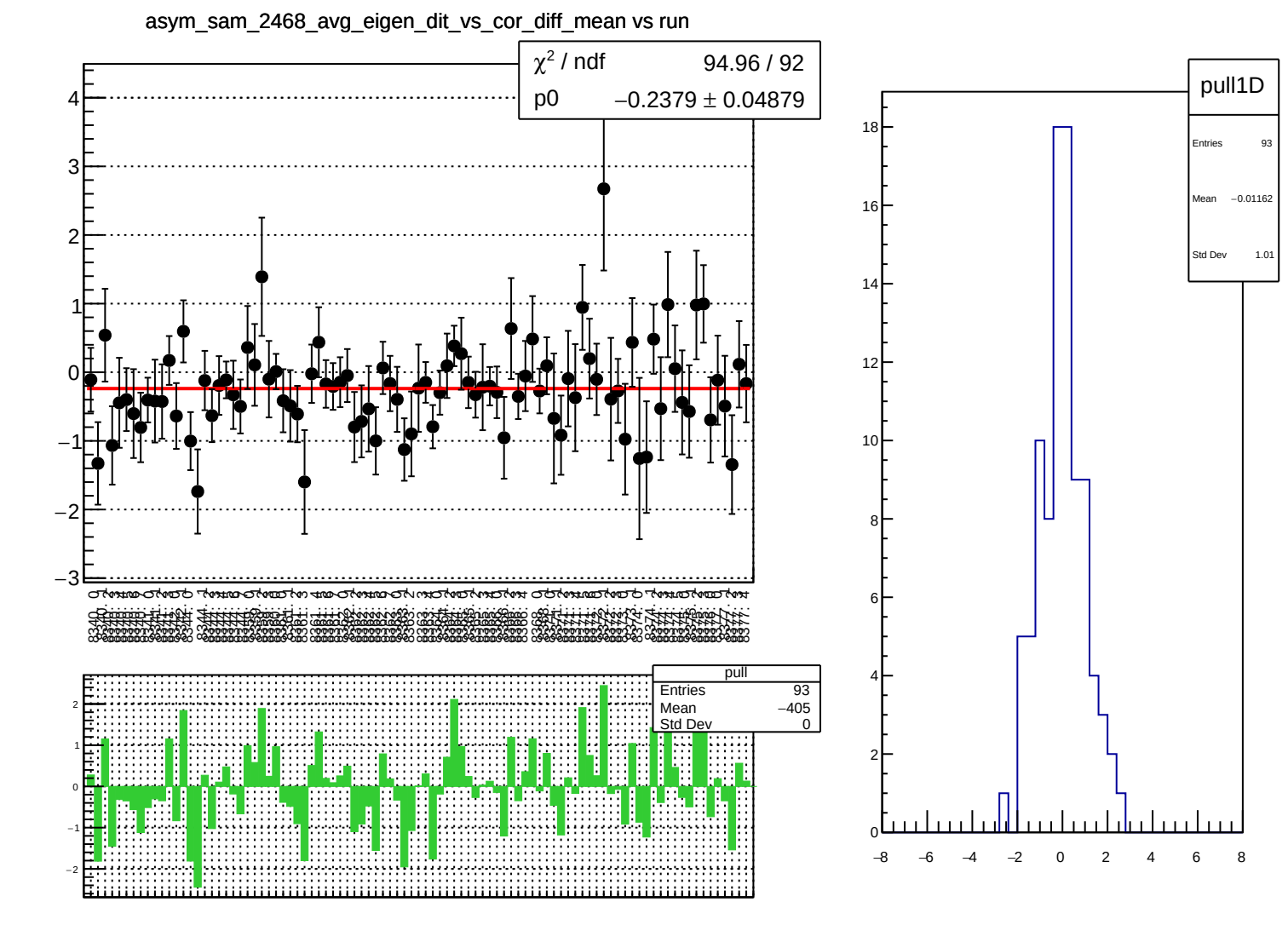

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2379 ± 0.04879
pull
Entries 93
Mean −405.1
Std Dev 0
pull1D
Entries 93
Mean −0.01161
Std Dev 1.01

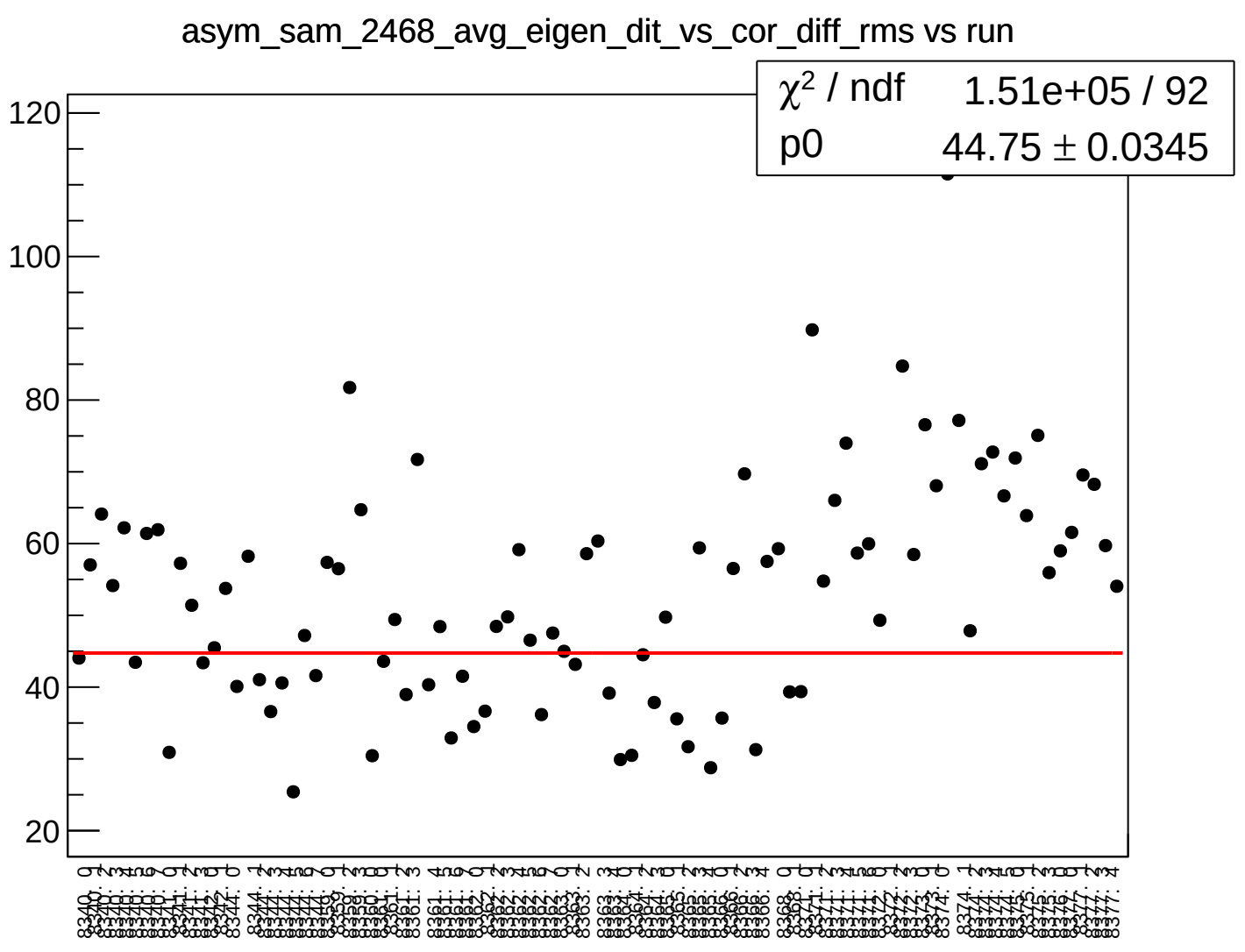

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.51e+05 / 92
p0 44.75 ± 0.0345
120
100
80
60
40
20

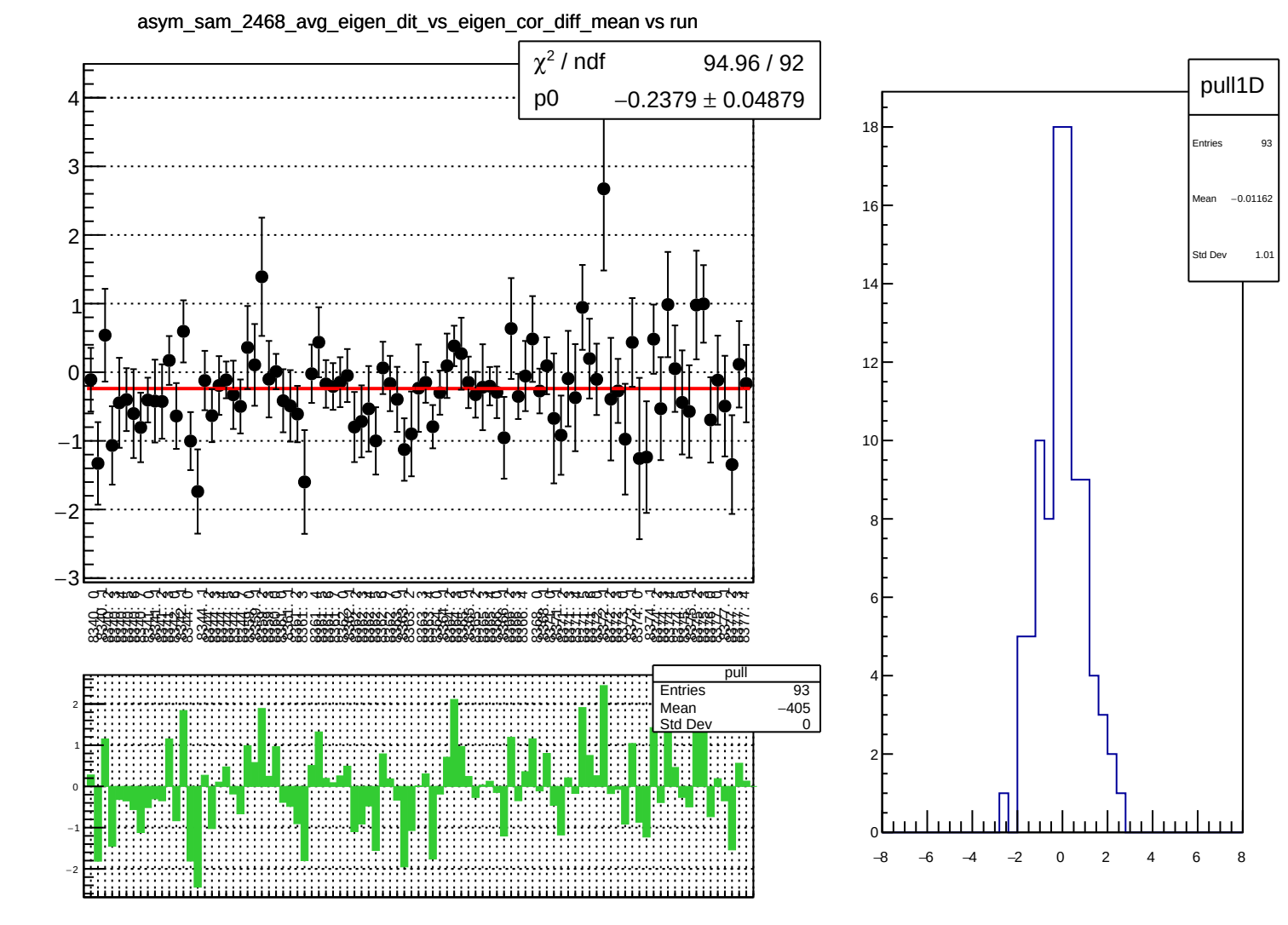

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.83 / 92
p0 1.879e−06 ± 1.94e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 134.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

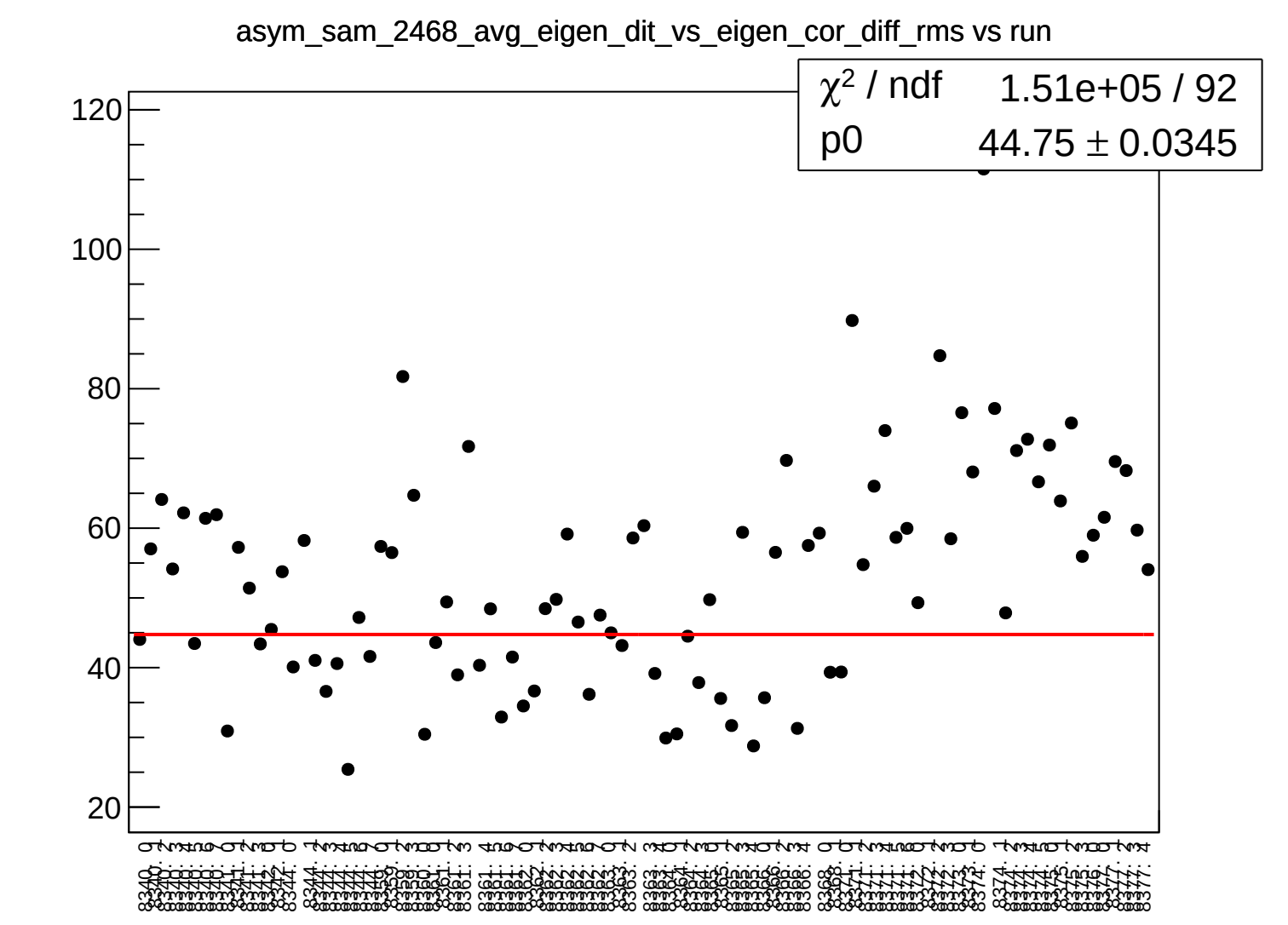

pull1D
Entries 93
Mean 0.03717
Std Dev 0.9543
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

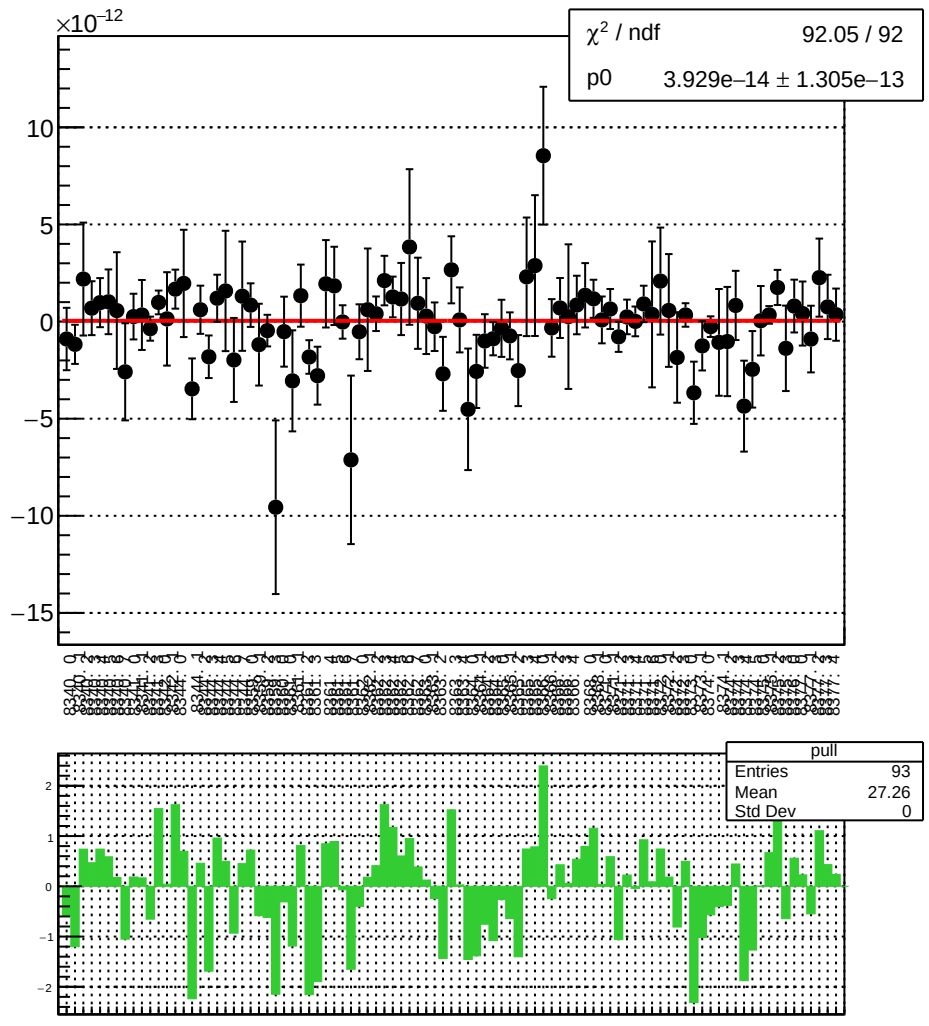

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.563e+05 / 92
p0 0.001777 ± 1.372e−06
0.0035
0.003
0.0025
0.002
0.0015

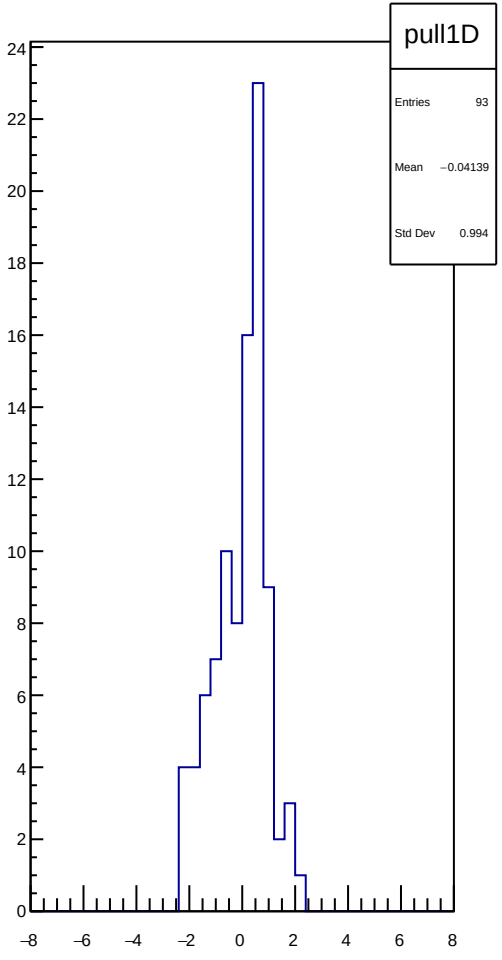

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2379 ± 0.04879
pull
Entries 93
Mean −405
Std Dev 0
pull1D
Entries 93
Mean −0.01162
Std Dev 1.01

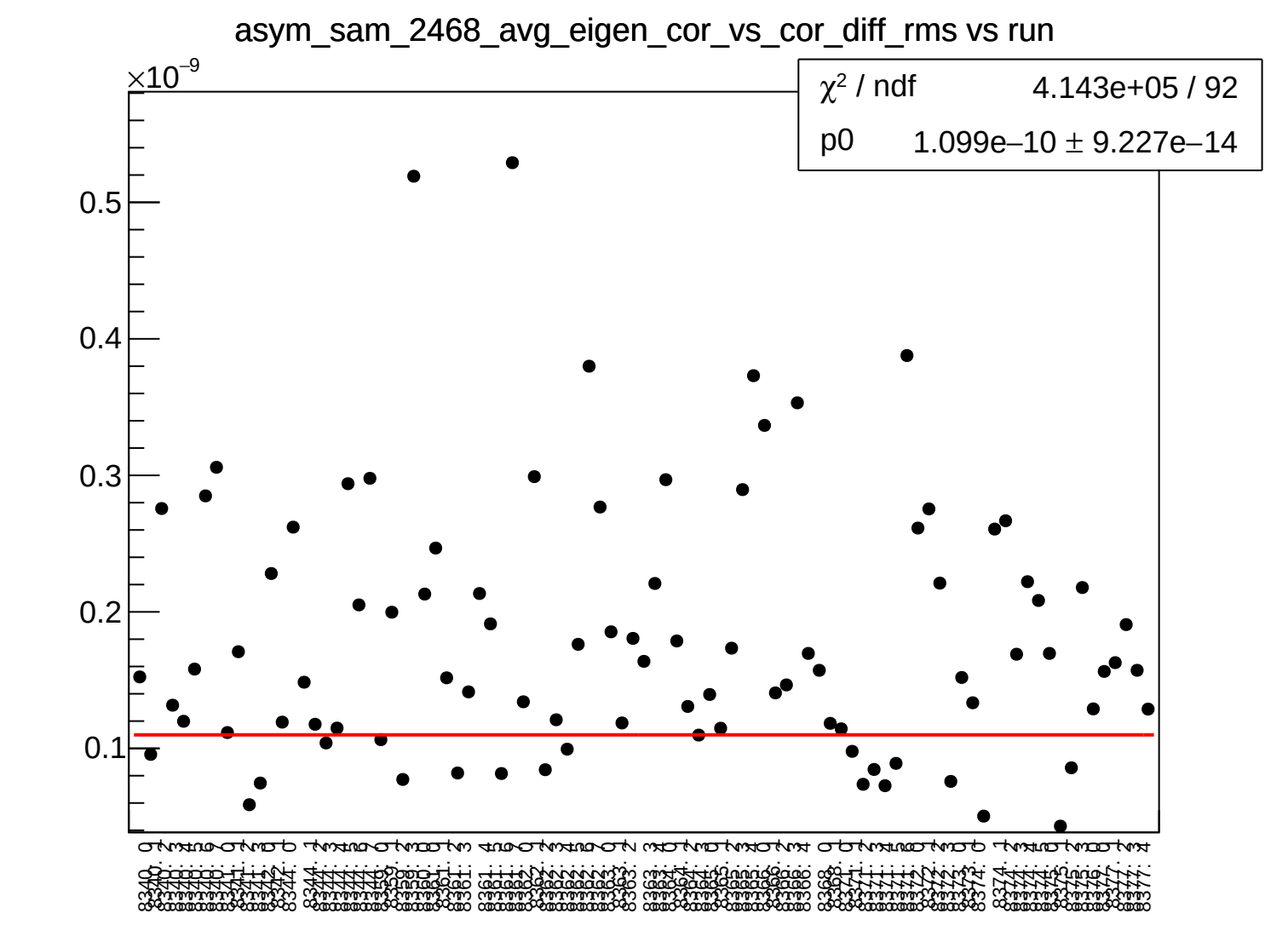

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.51e+05 / 92
p0 44.75 ± 0.0345
120
100
80
60
40
20

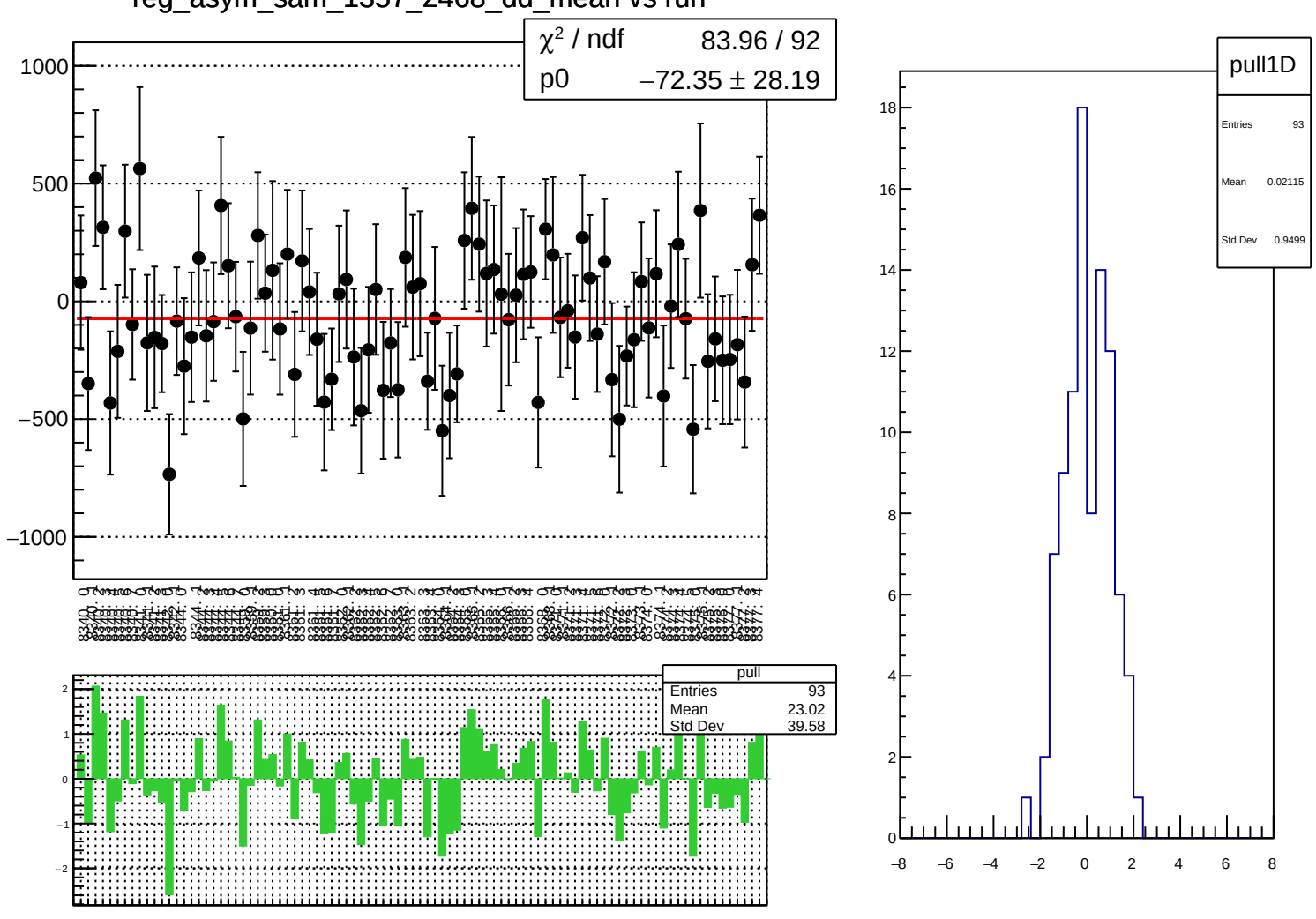

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.96 / 92
p0 −0.2379 ± 0.04879
pull
Entries 93
Mean −405
Std Dev 0
pull1D
Entries 93
Mean −0.01162
Std Dev 1.01

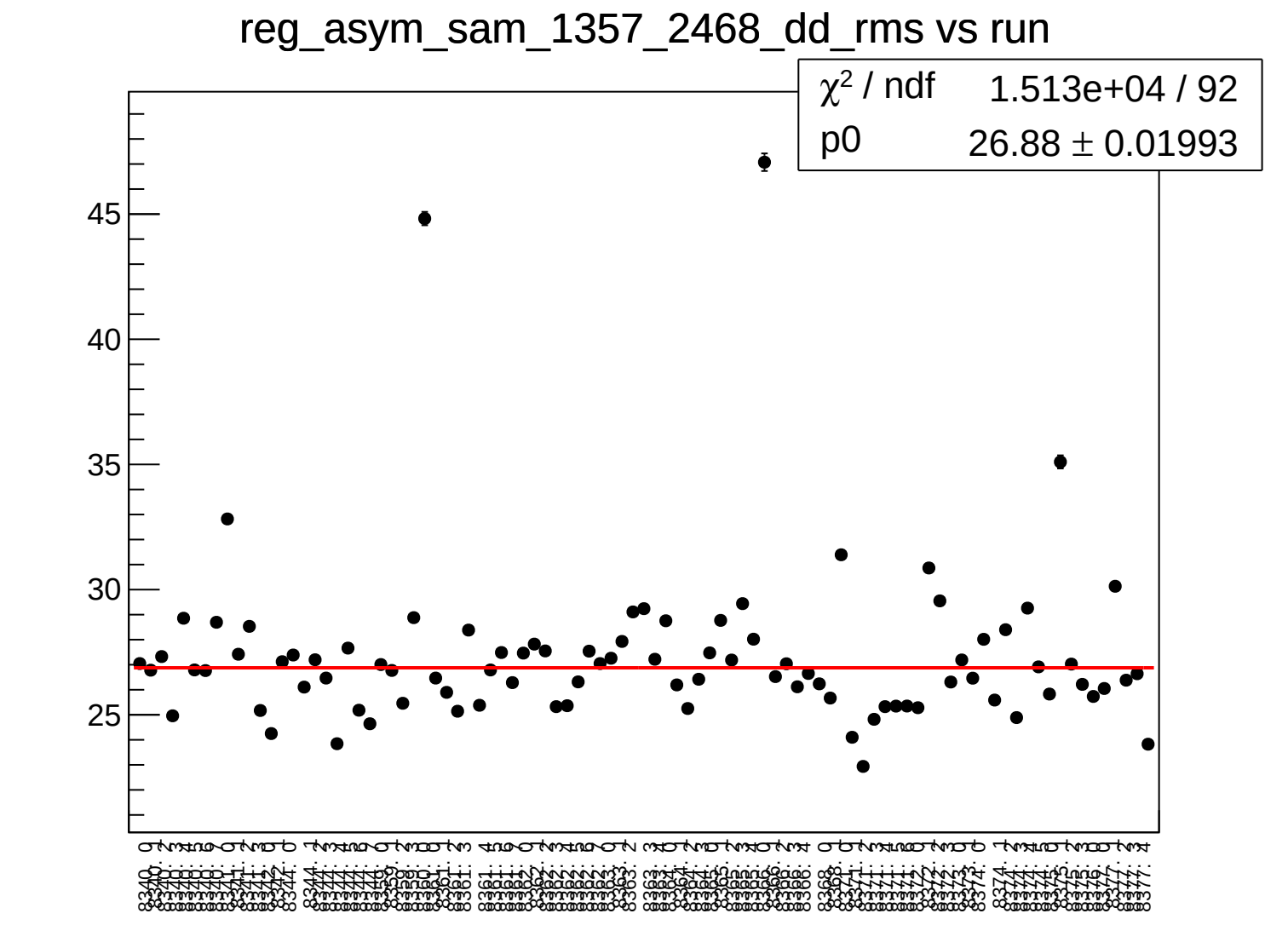

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.51e+05 / 92
p0 44.75 ± 0.0345
120
100
80
60
40
20

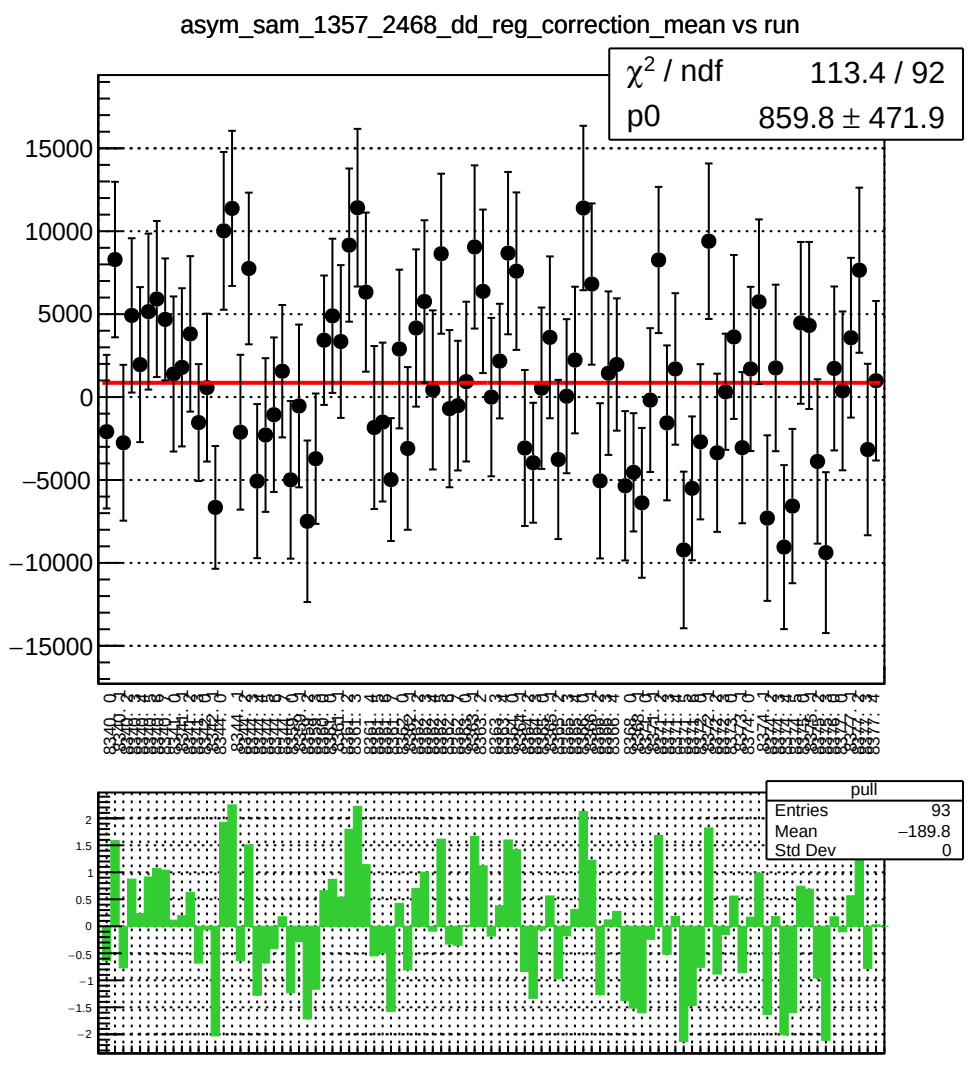

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.05 / 92
p0 3.929e−14 ± 1.305e−13
10
5
0
−5
−10
−15
pull
Entries 93
Mean 27.26
Std Dev 0
2
1
0
−1
−2

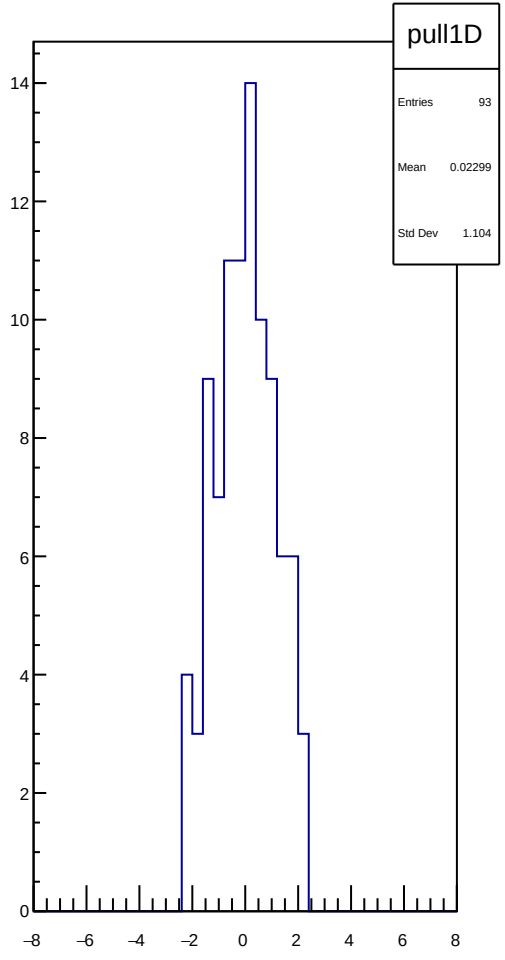

pull1D
Entries 93
Mean −0.04139
Std Dev 0.994
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

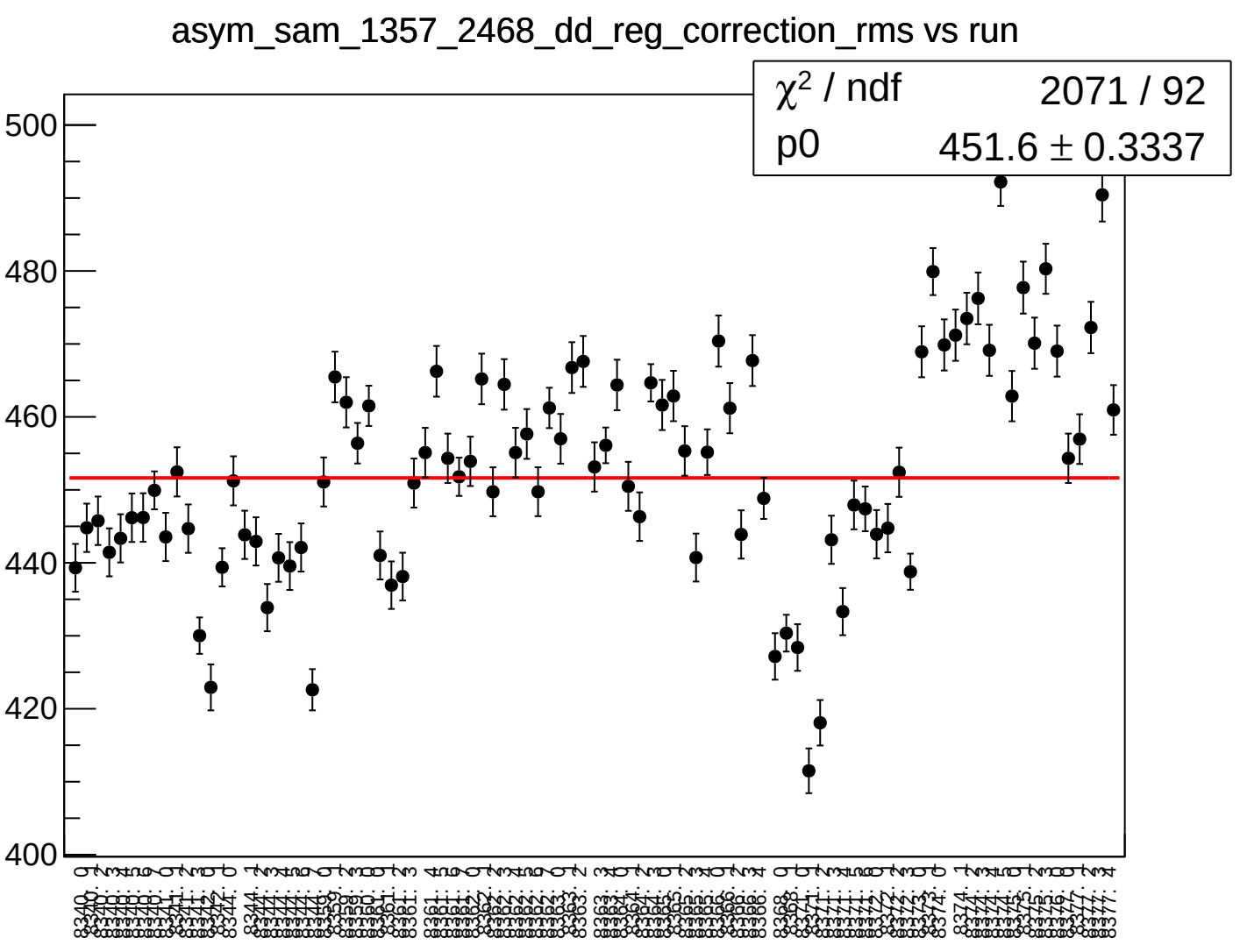

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.143e+05 / 92
p0 1.099e−10 ± 9.227e−14
0.5
0.4
0.3
0.2
0.1

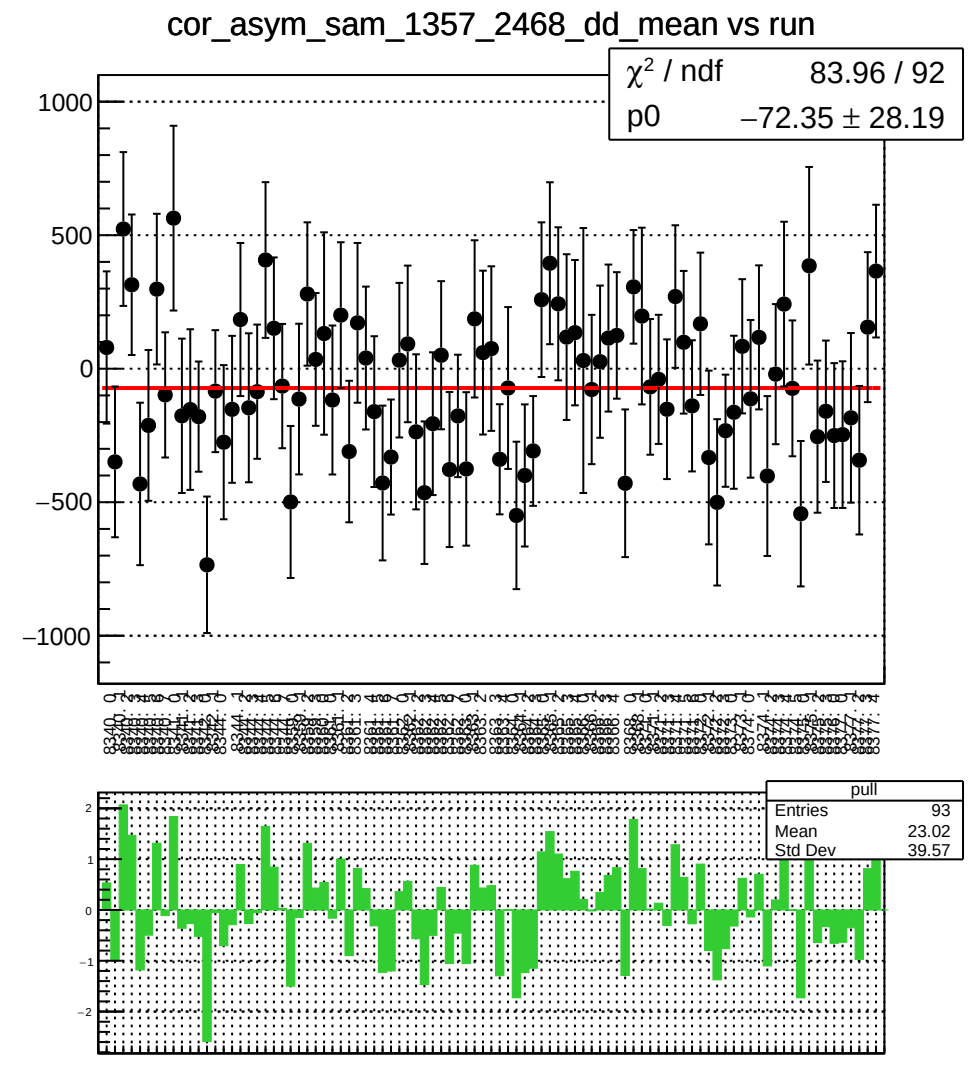

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.96 / 92
p0 −72.35 ± 28.19
1000
500
0
−500
−1000
pull
Entries 93
Mean 23.02
Std Dev 39.58
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02115
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

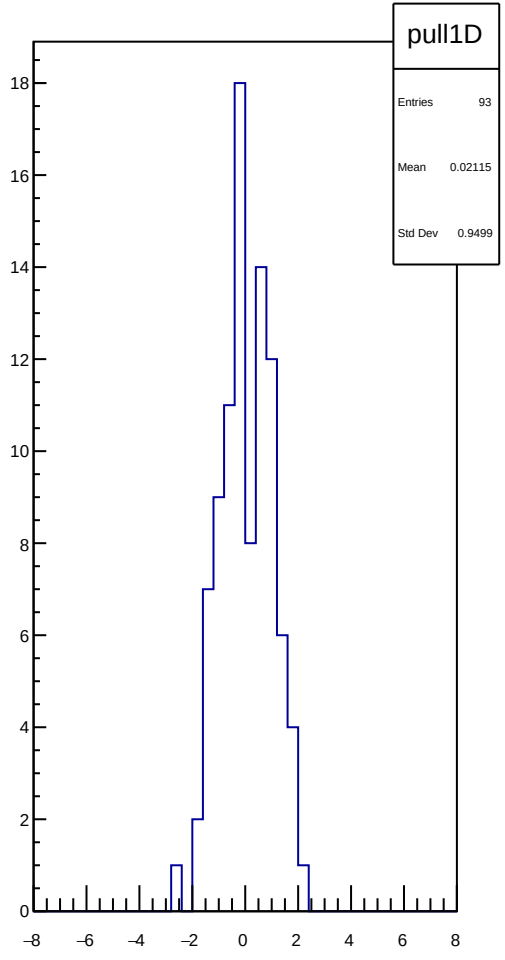

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.513e+04 / 92
p0 26.88 ± 0.01993
45
40
35
30
25

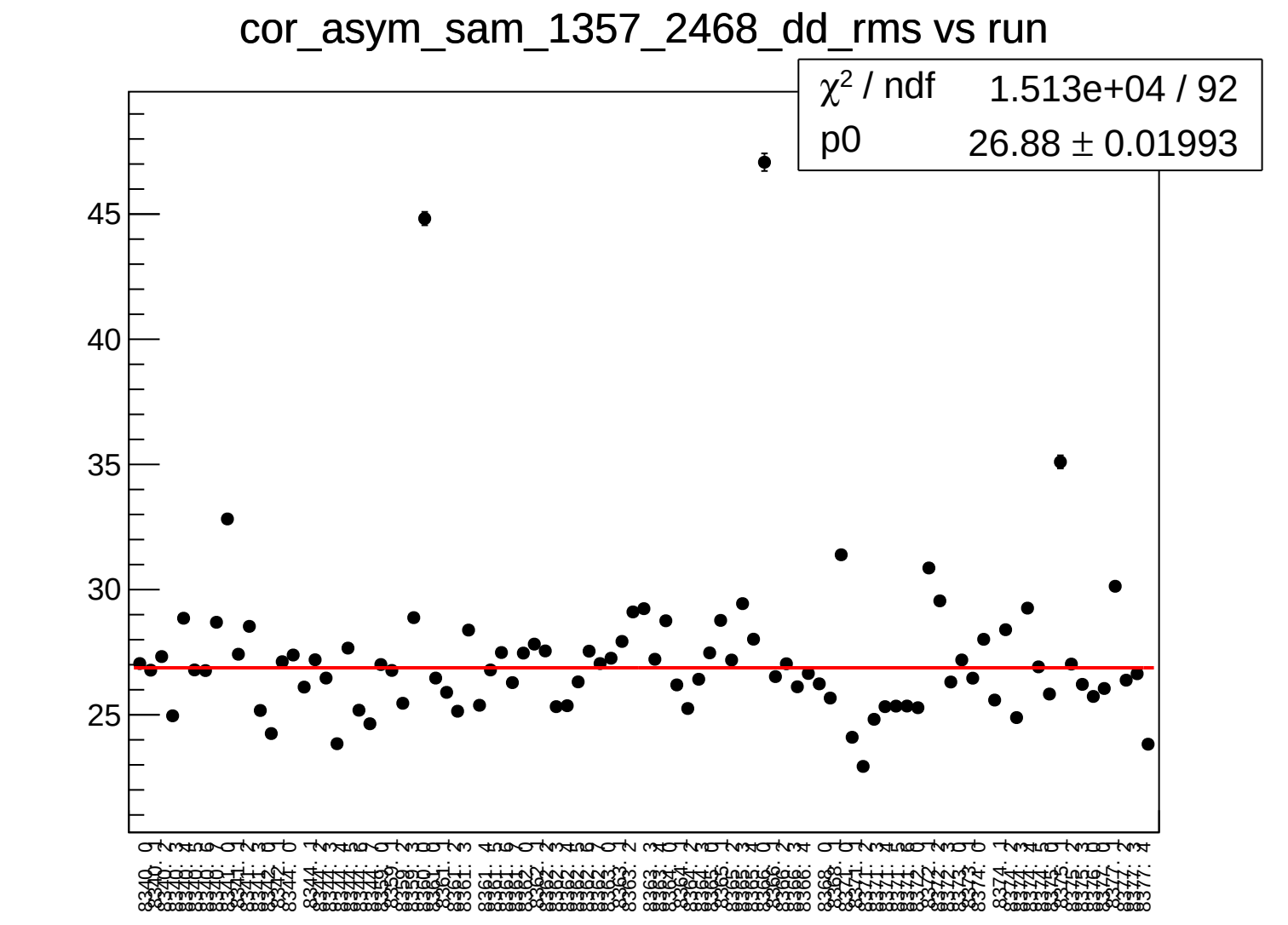

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 113.4 / 92
p0 859.8 ± 471.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −189.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

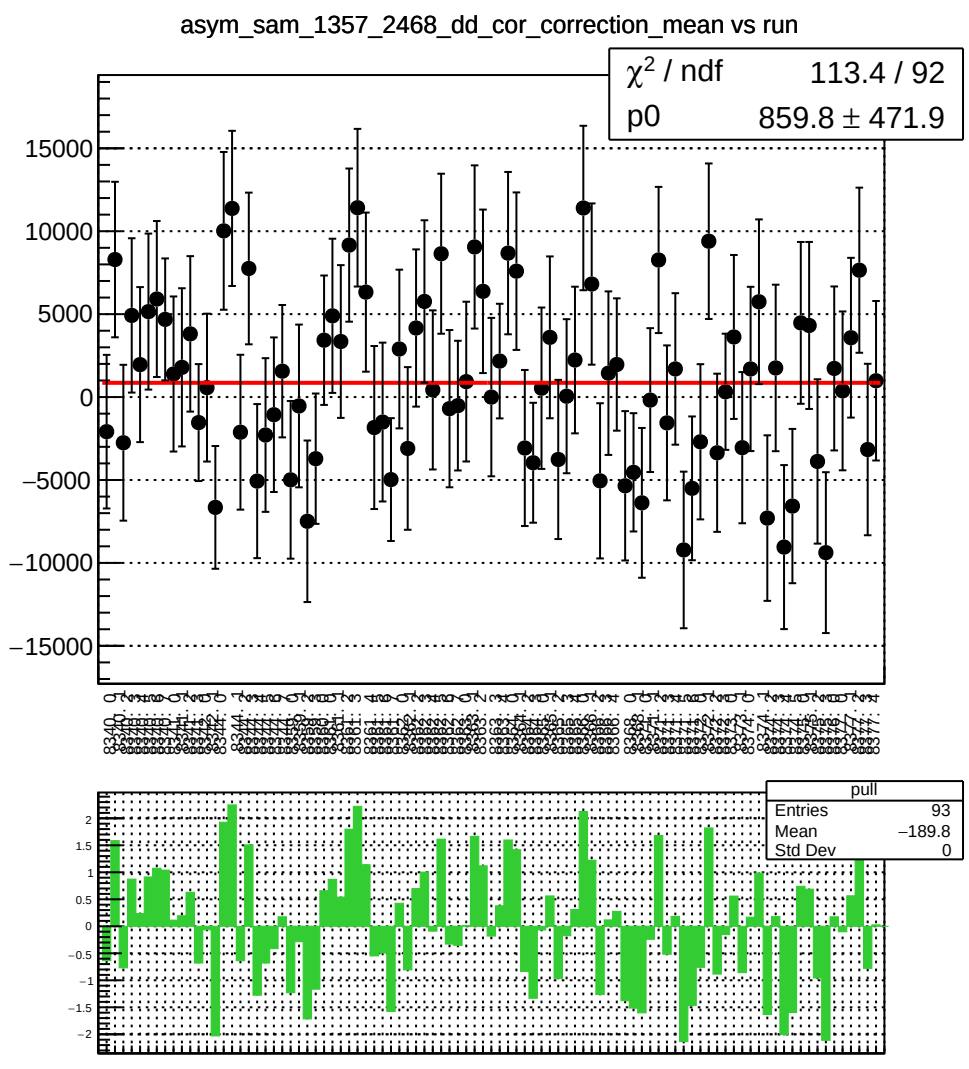

pull1D
Entries 93
Mean 0.02299
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

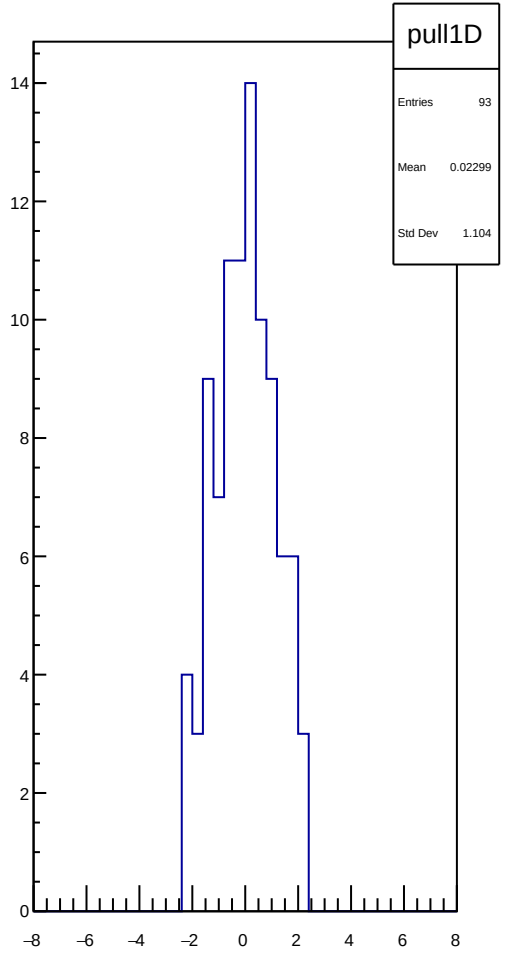

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 2071 / 92
p0 451.6 ± 0.3337
500
480
460
440
420
400

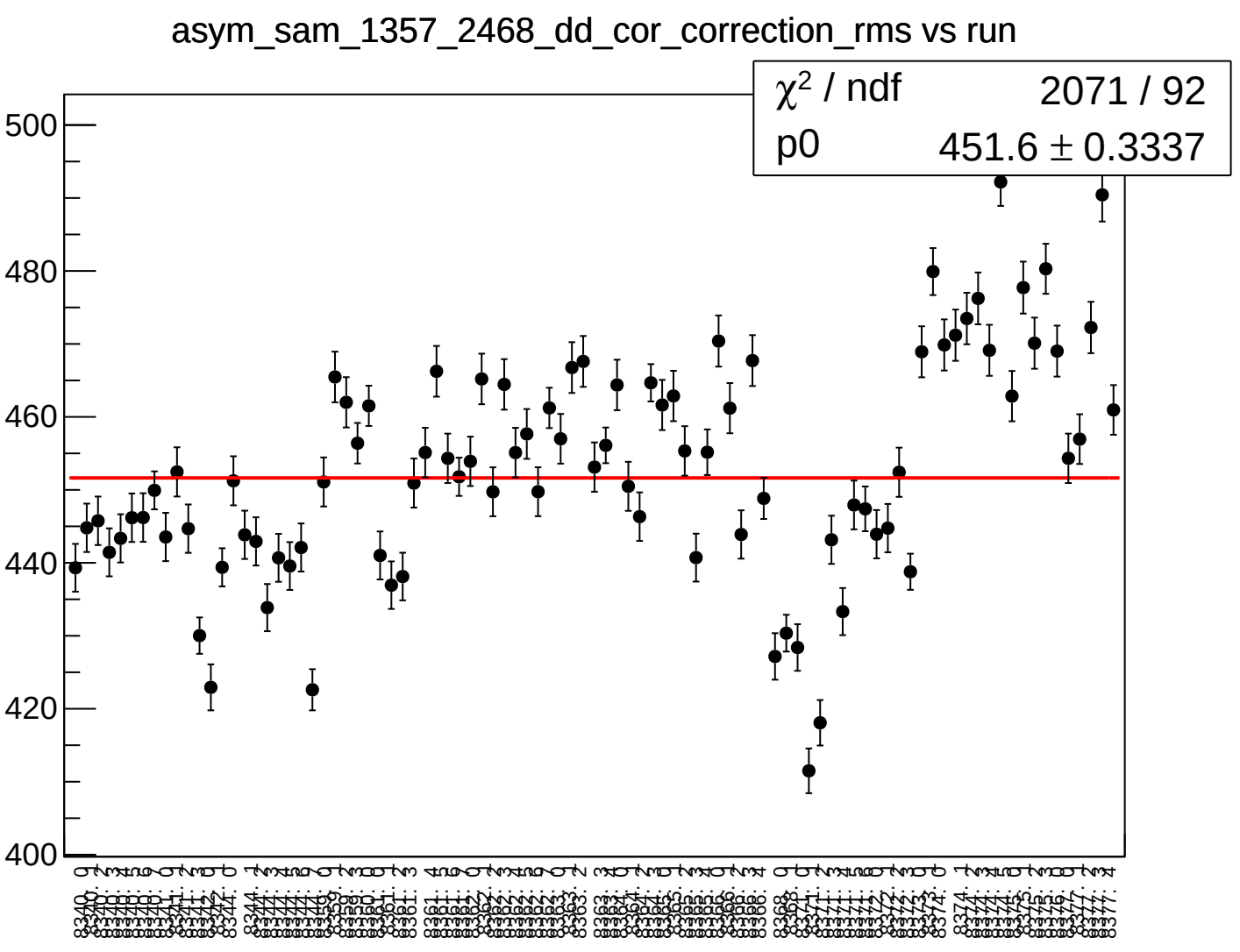

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.96 / 92
p0 −72.35 ± 28.19
1000
500
0
−500
−1000
pull
Entries 93
Mean 23.02
Std Dev 39.57
2
1
0
−1
−2

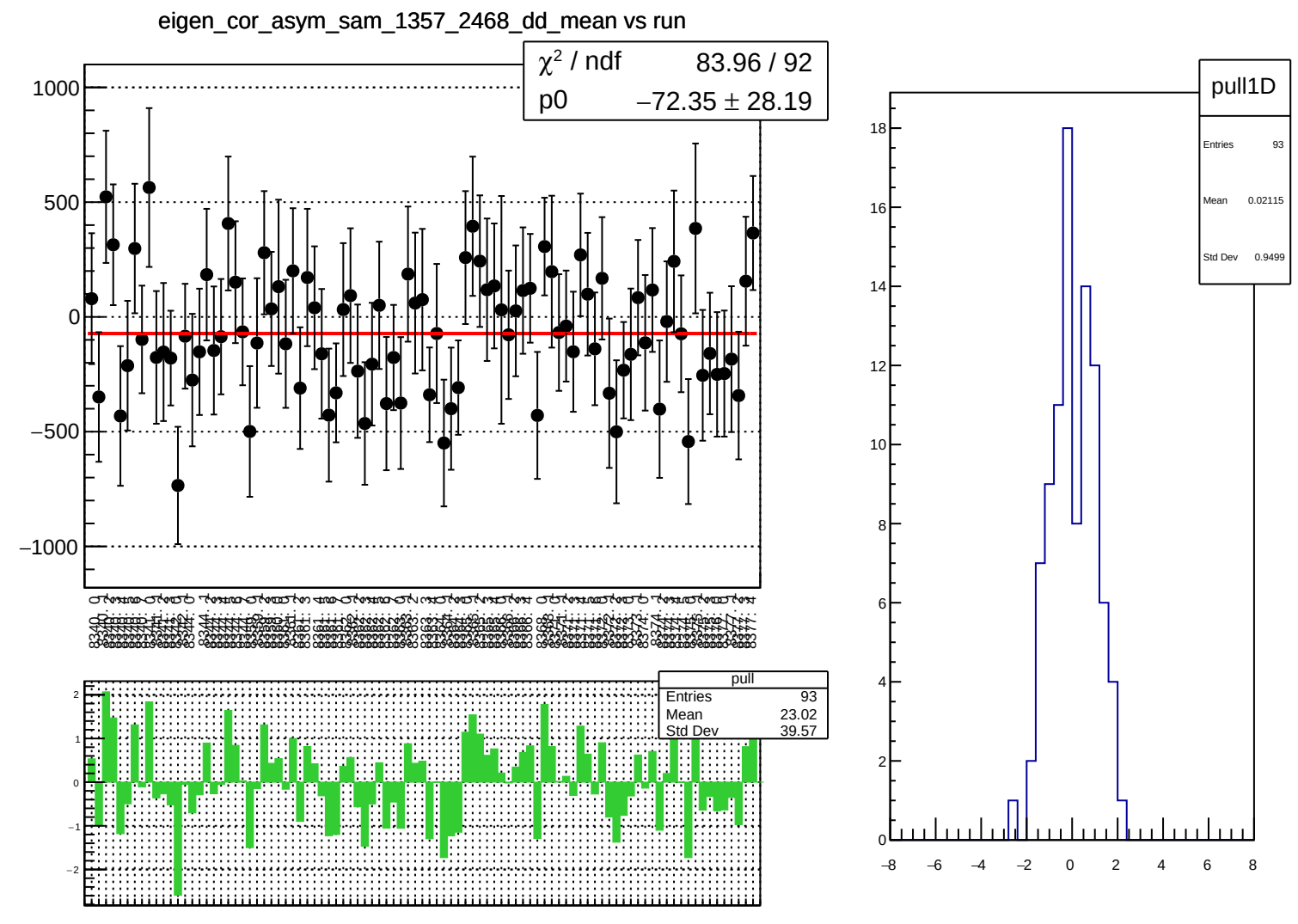

pull1D
Entries 93
Mean 0.02115
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

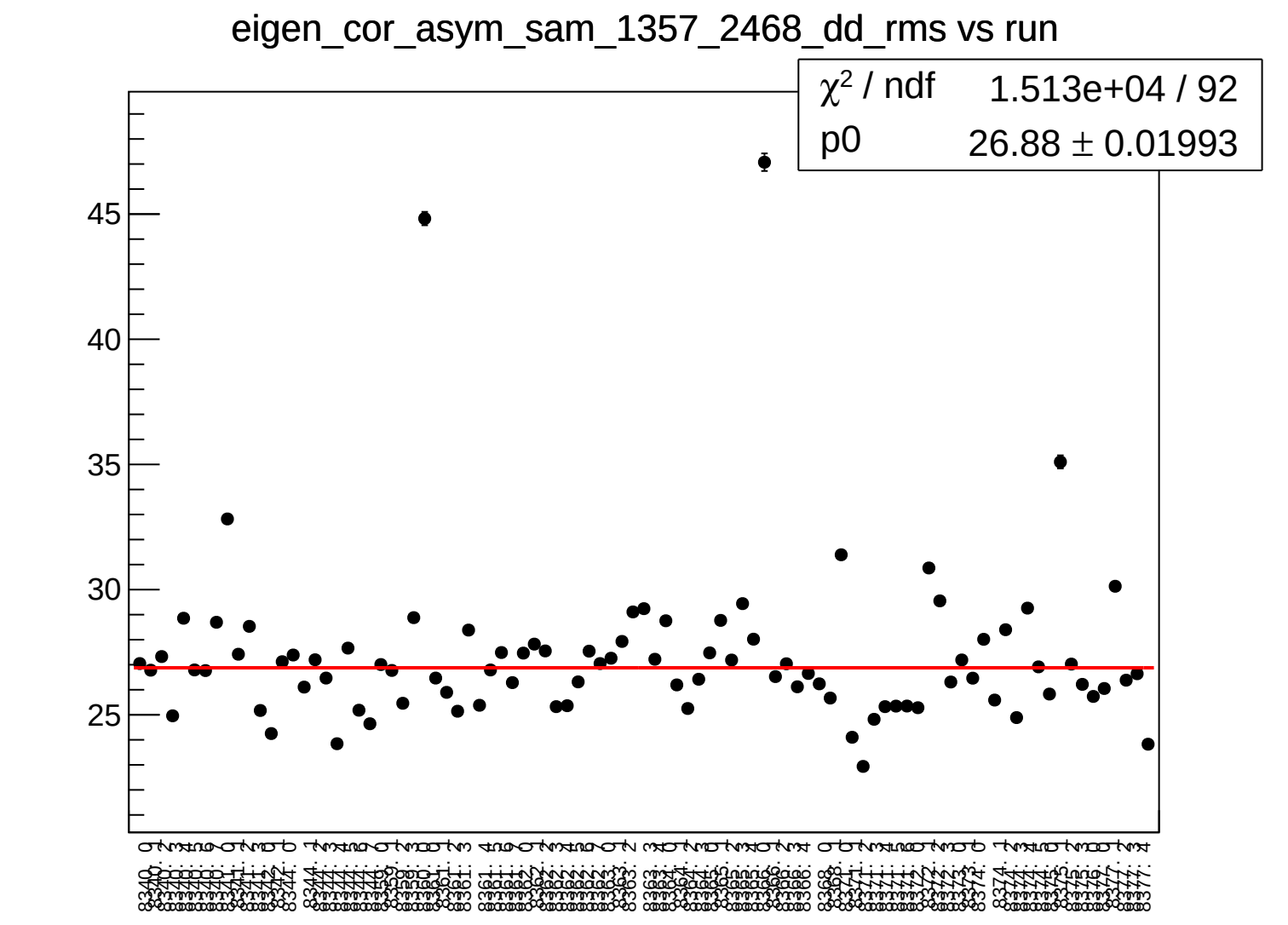

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.513e+04 / 92
p0 26.88 ± 0.01993
45
40
35
30
25

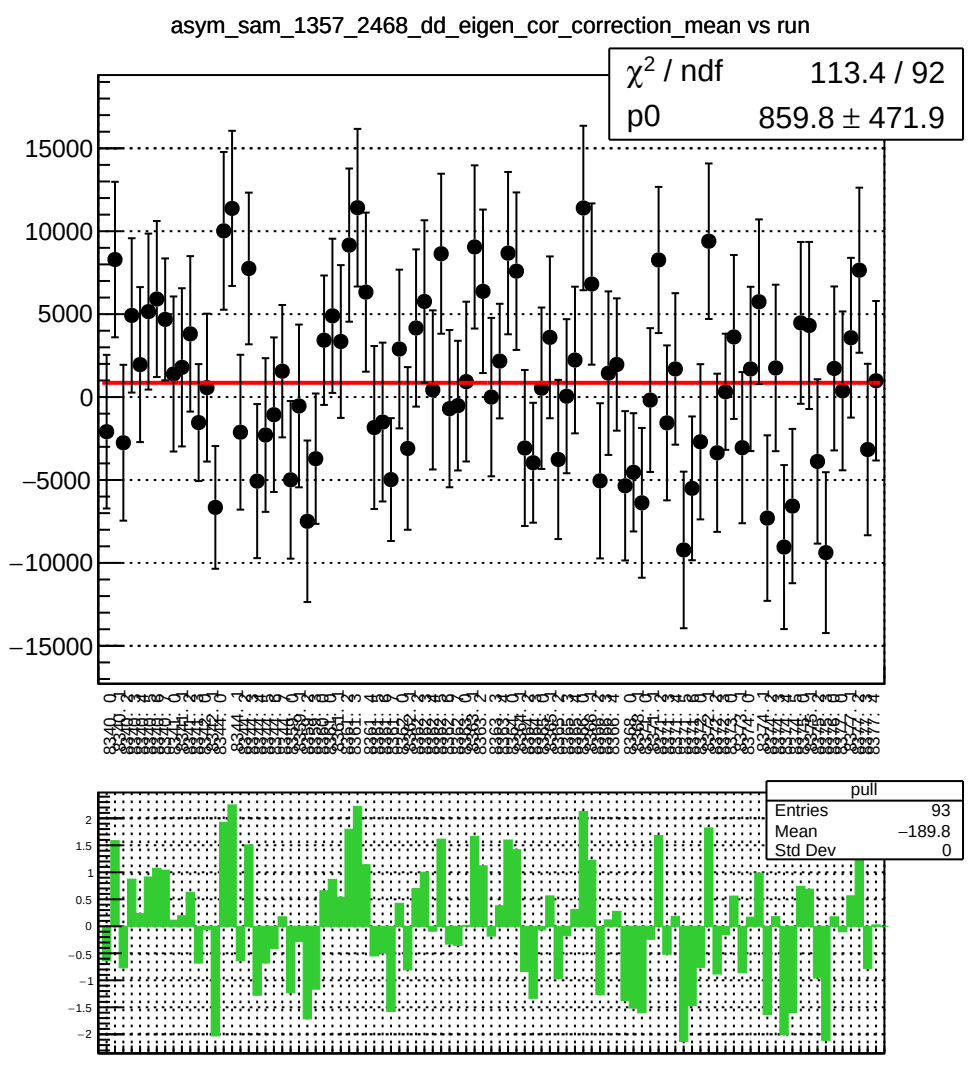

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 859.8 ± 471.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −189.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

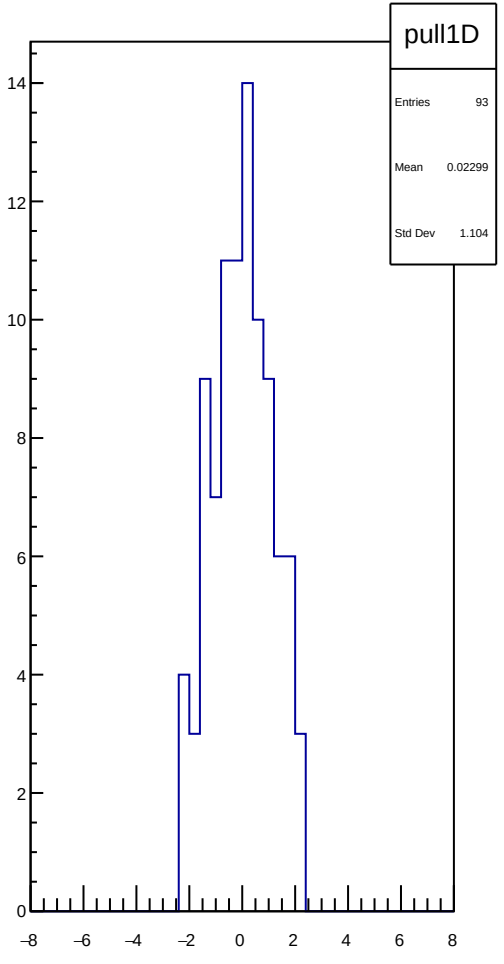

pull1D
Entries 93
Mean 0.02299
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

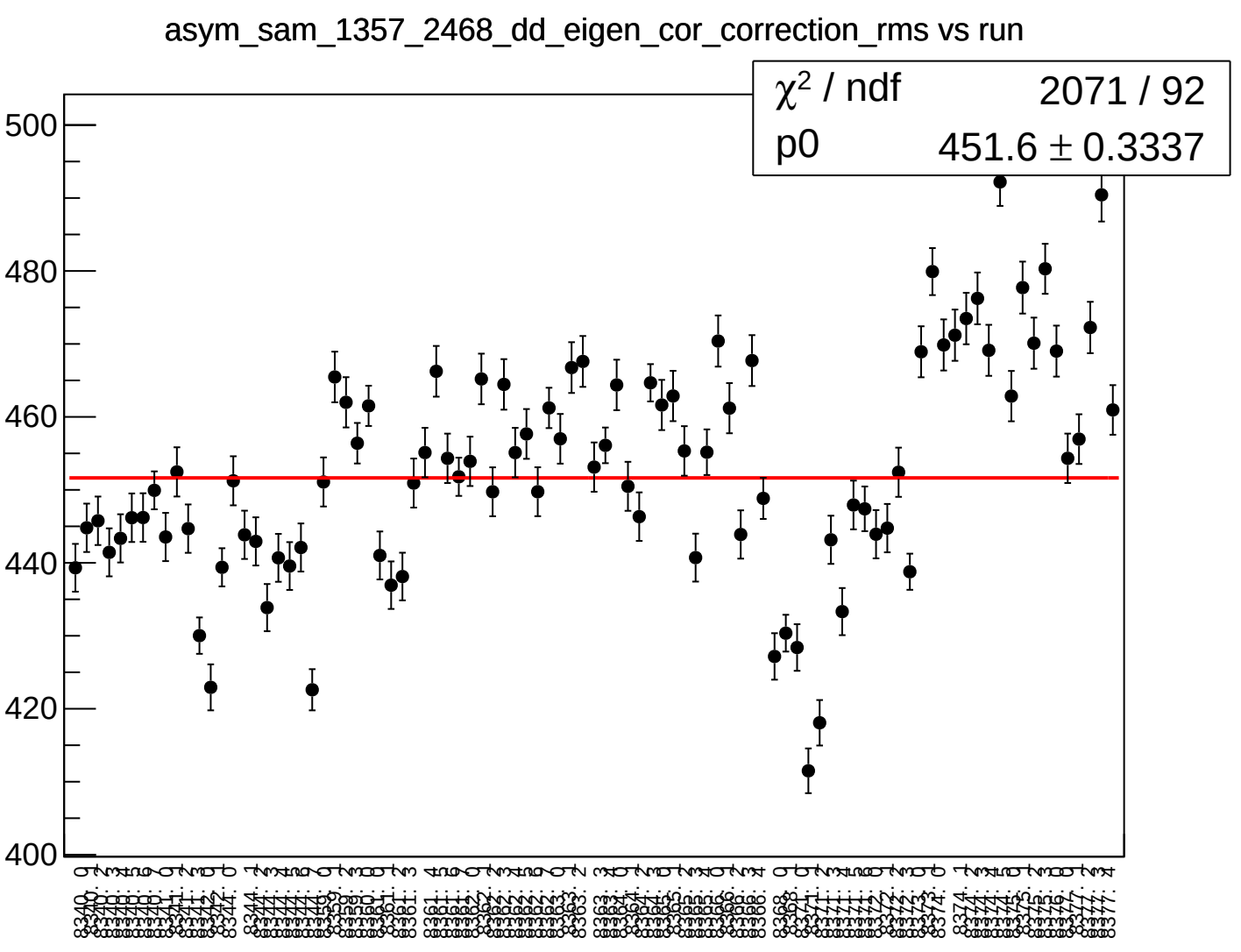

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 2071 / 92
p0 451.6 ± 0.3337
500
480
460
440
420
400

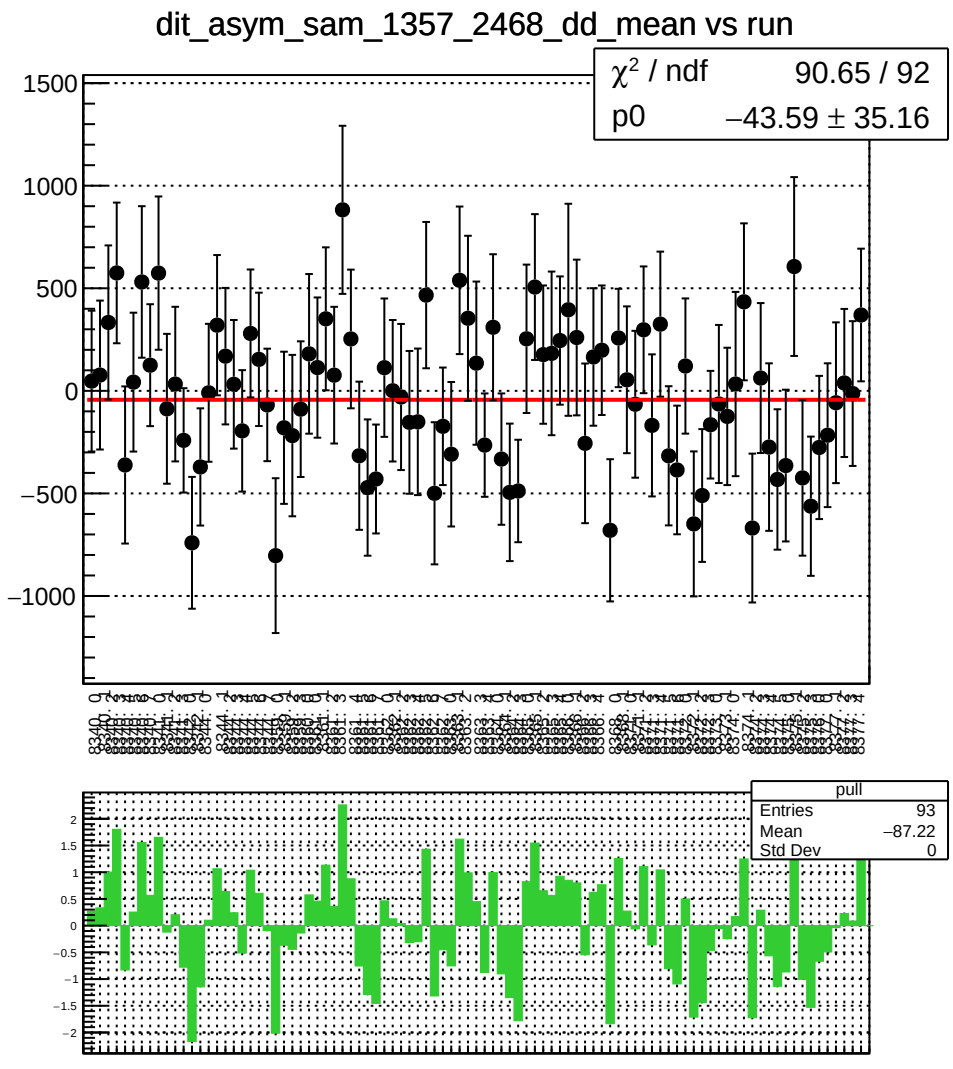

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 83.96 / 92
p0 −72.35 ± 28.19
1000
500
0
−500
−1000
pull
Entries 93
Mean 23.02
Std Dev 39.57
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02115
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

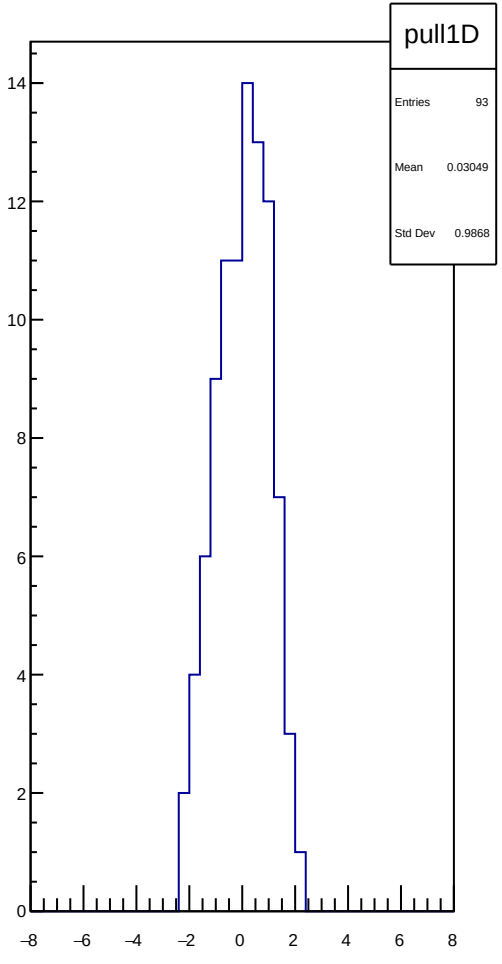

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.513e+04 / 92
p0 26.88 ± 0.01993
45
40
35
30
25

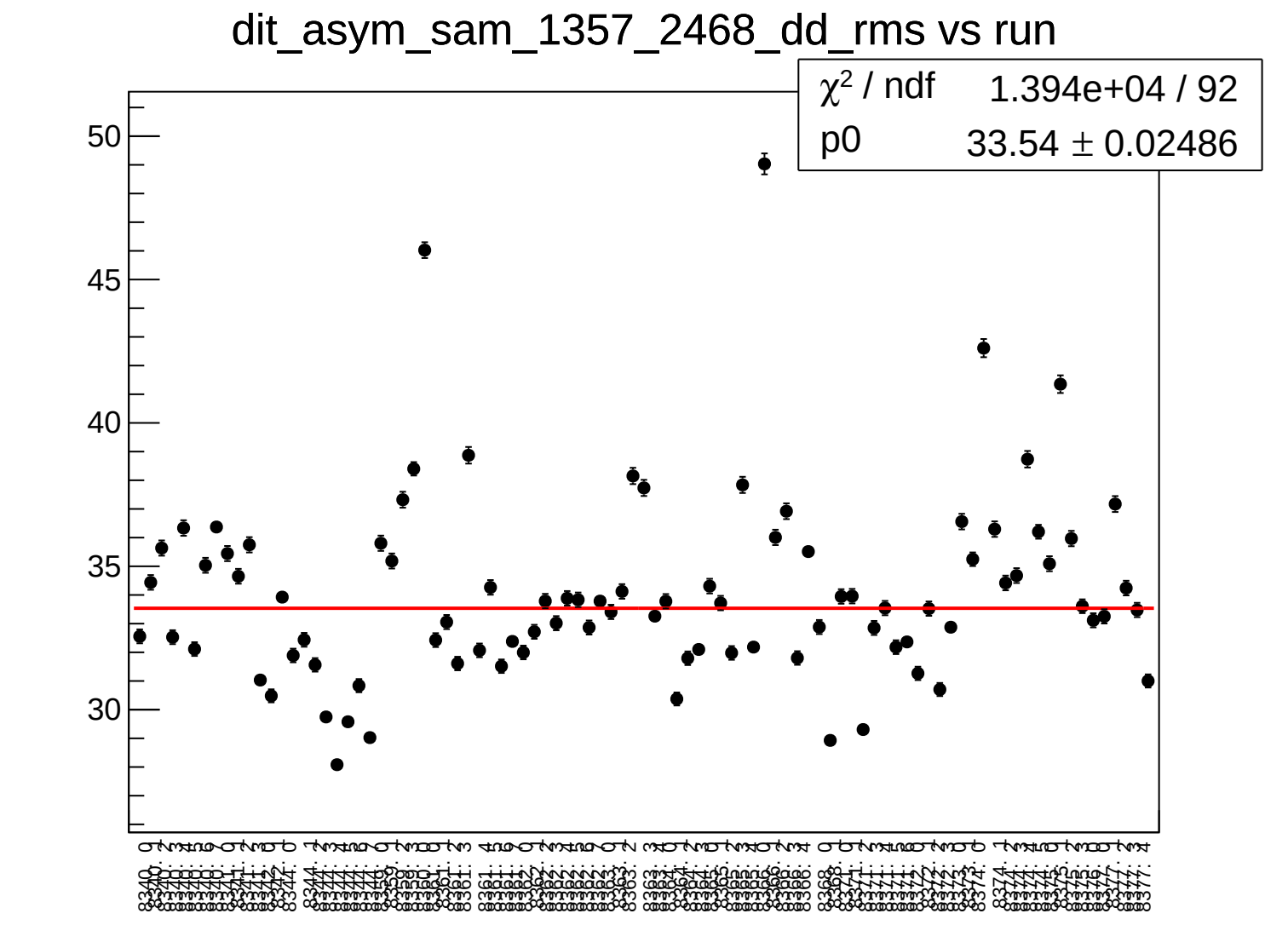

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.4 / 92
p0 859.8 ± 471.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −189.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

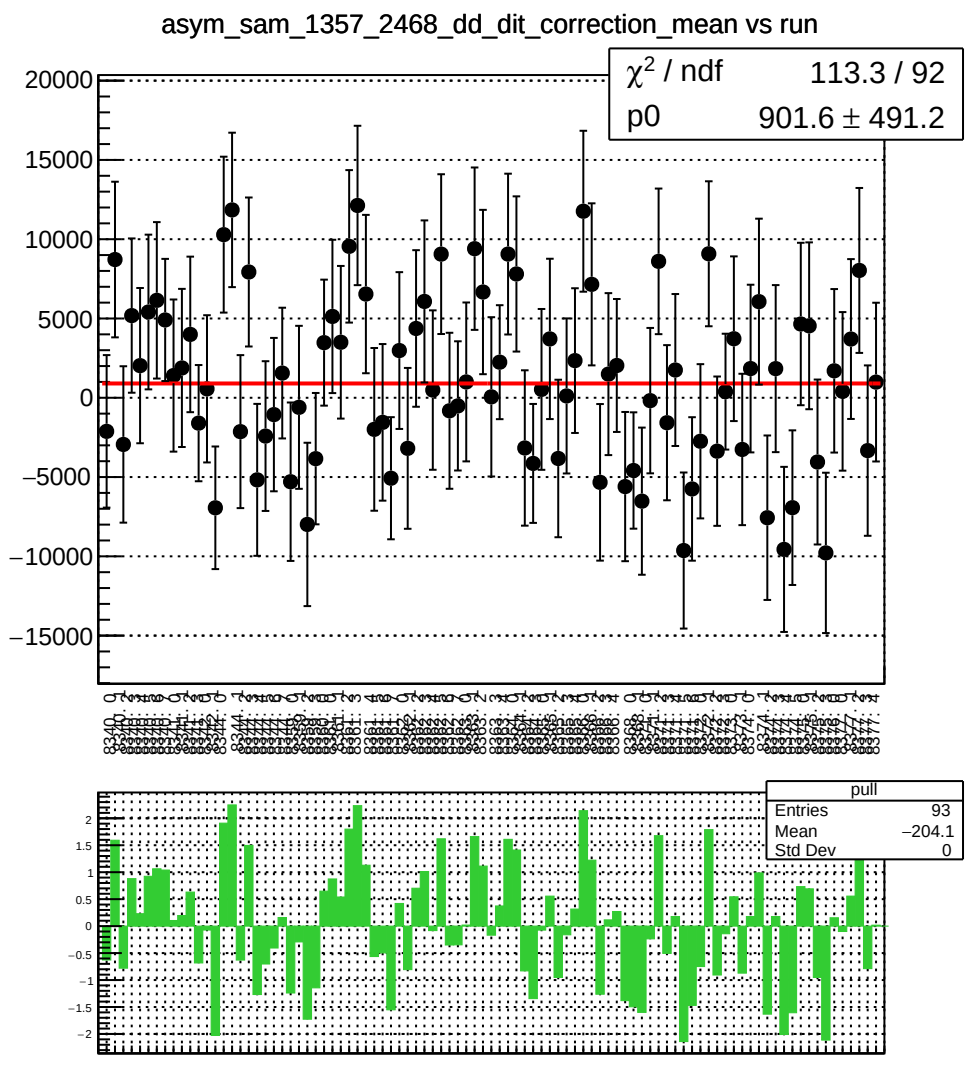

pull1D
Entries 93
Mean 0.02299
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

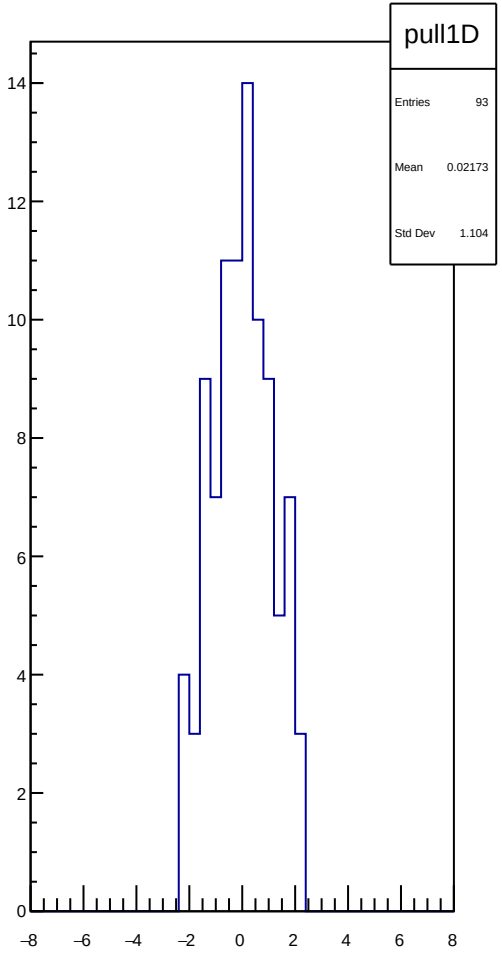

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 2071 / 92
p0 451.6 ± 0.3337
500
480
460
440
420
400

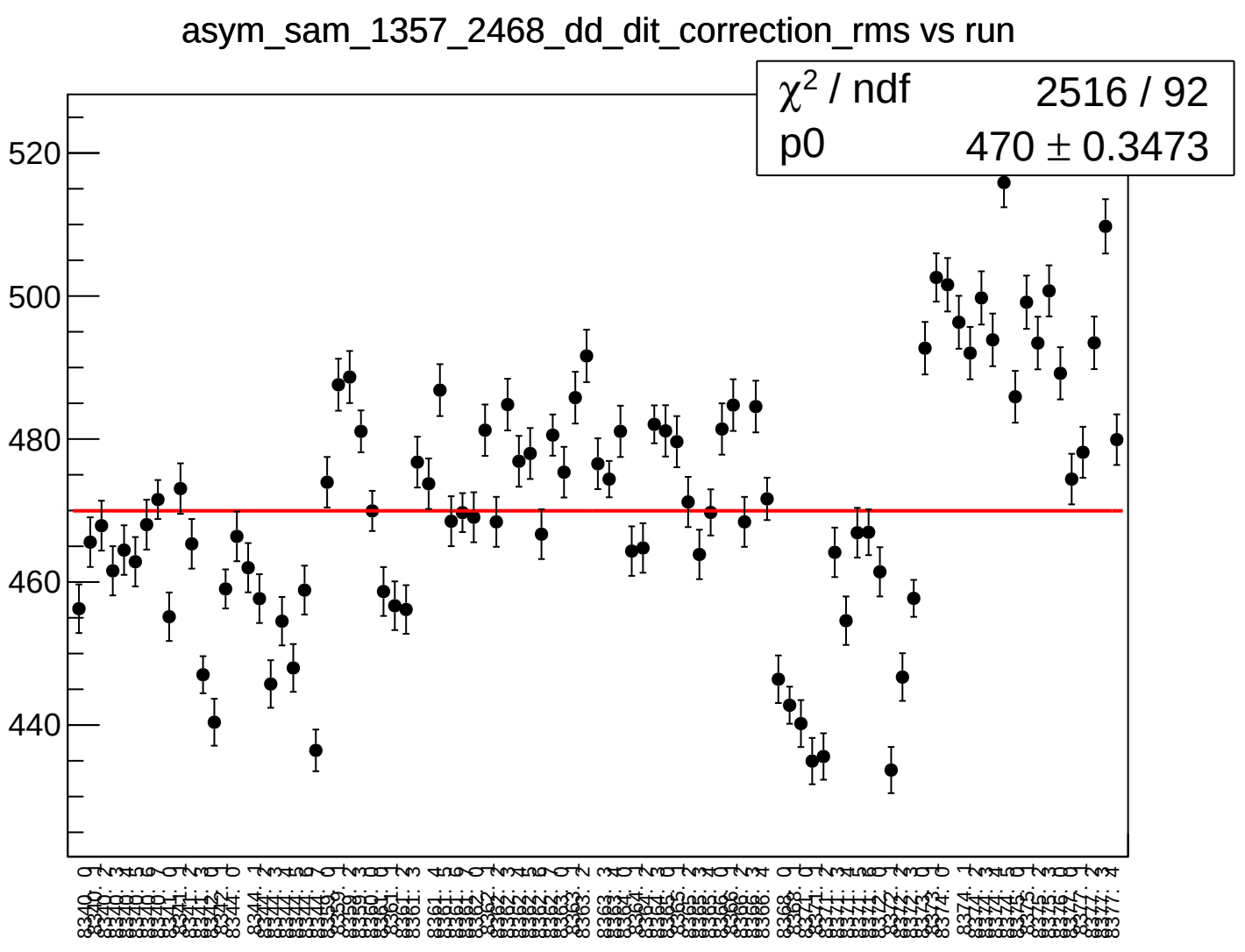

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.65 / 92
p0 −43.59 ± 35.16
pull
Entries 93
Mean −87.22
Std Dev 0

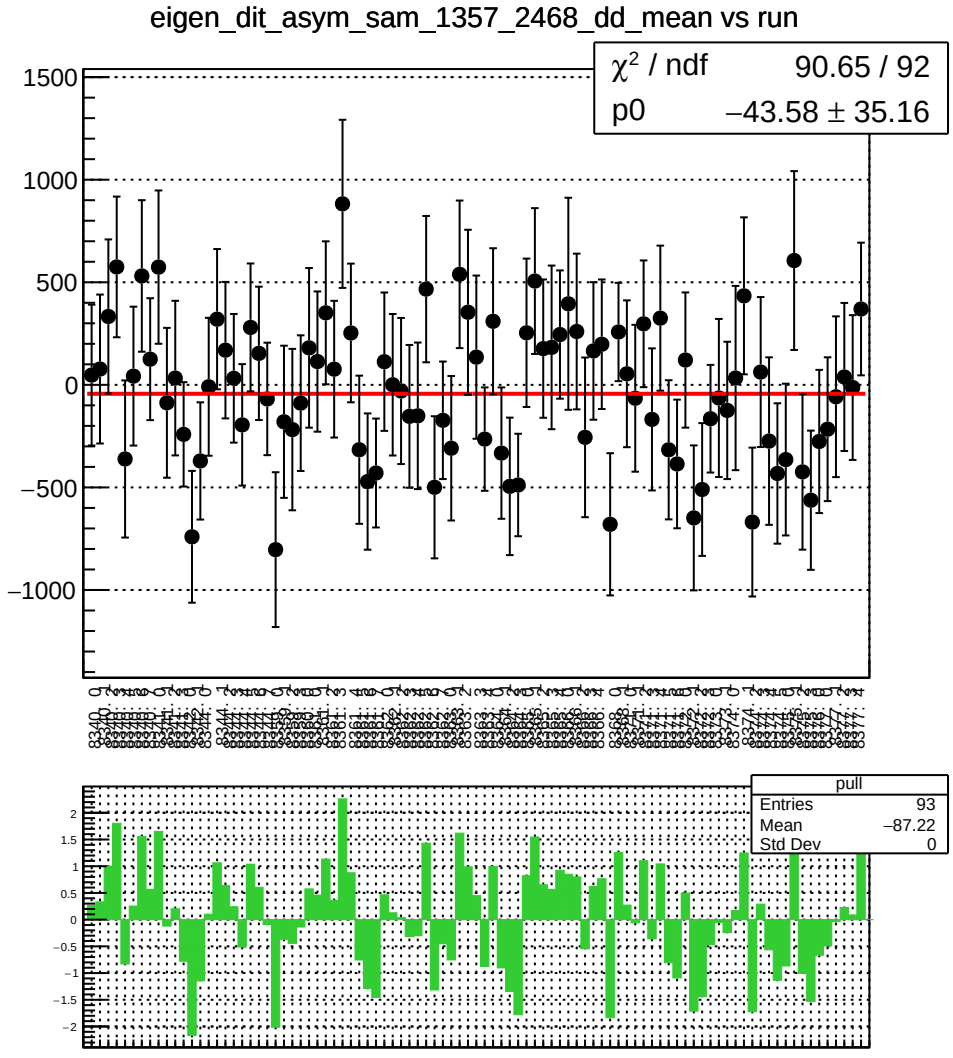

pull1D
Entries 93
Mean 0.03049
Std Dev 0.9868

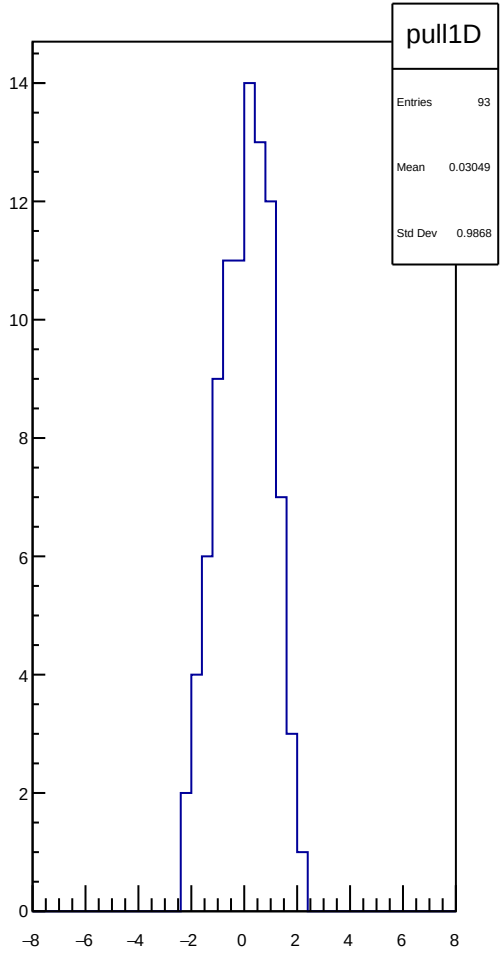

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.394e+04 / 92
p0 33.54 ± 0.02486
50
45
40
35
30

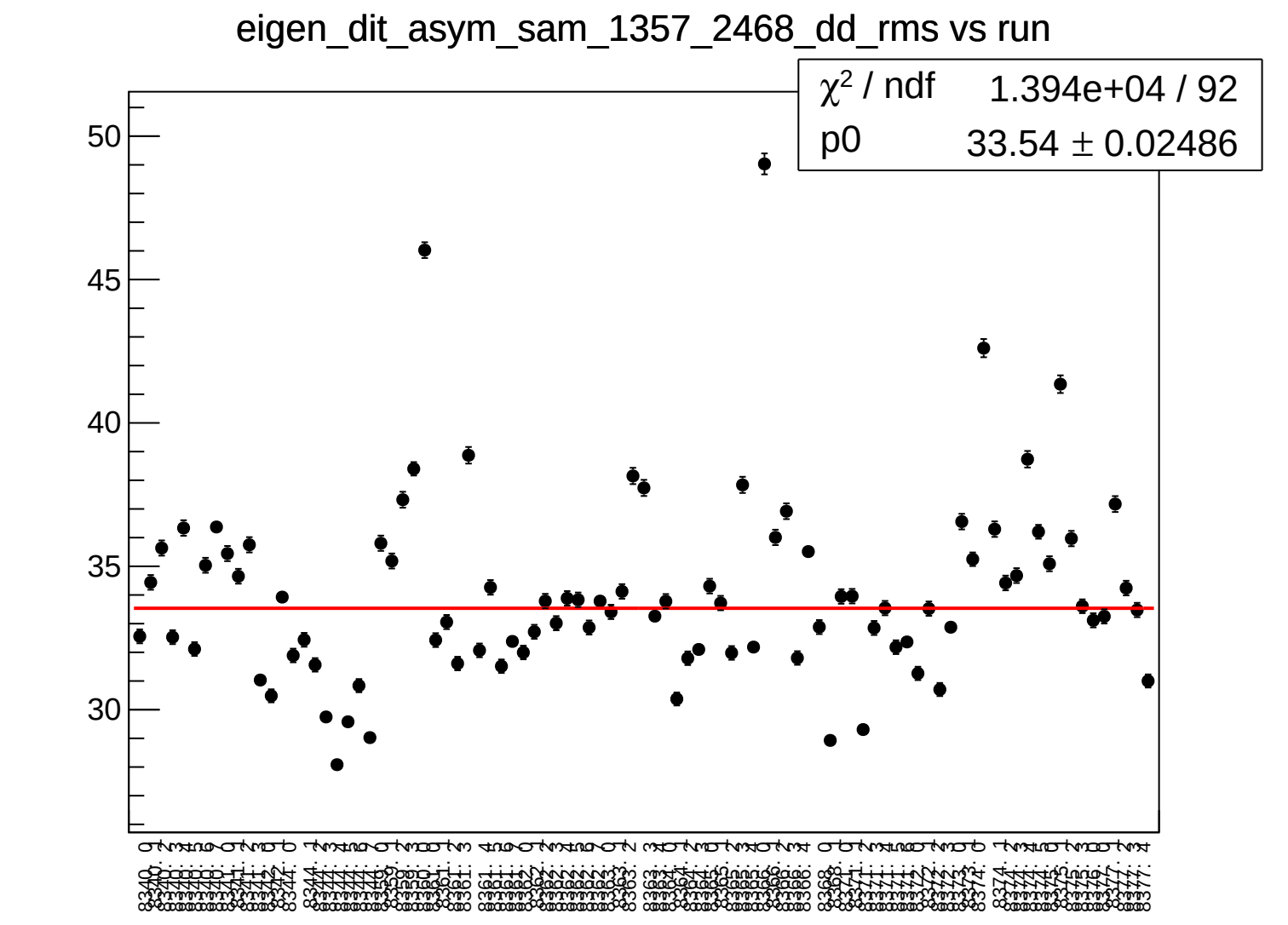

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 901.6 ± 491.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −204.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

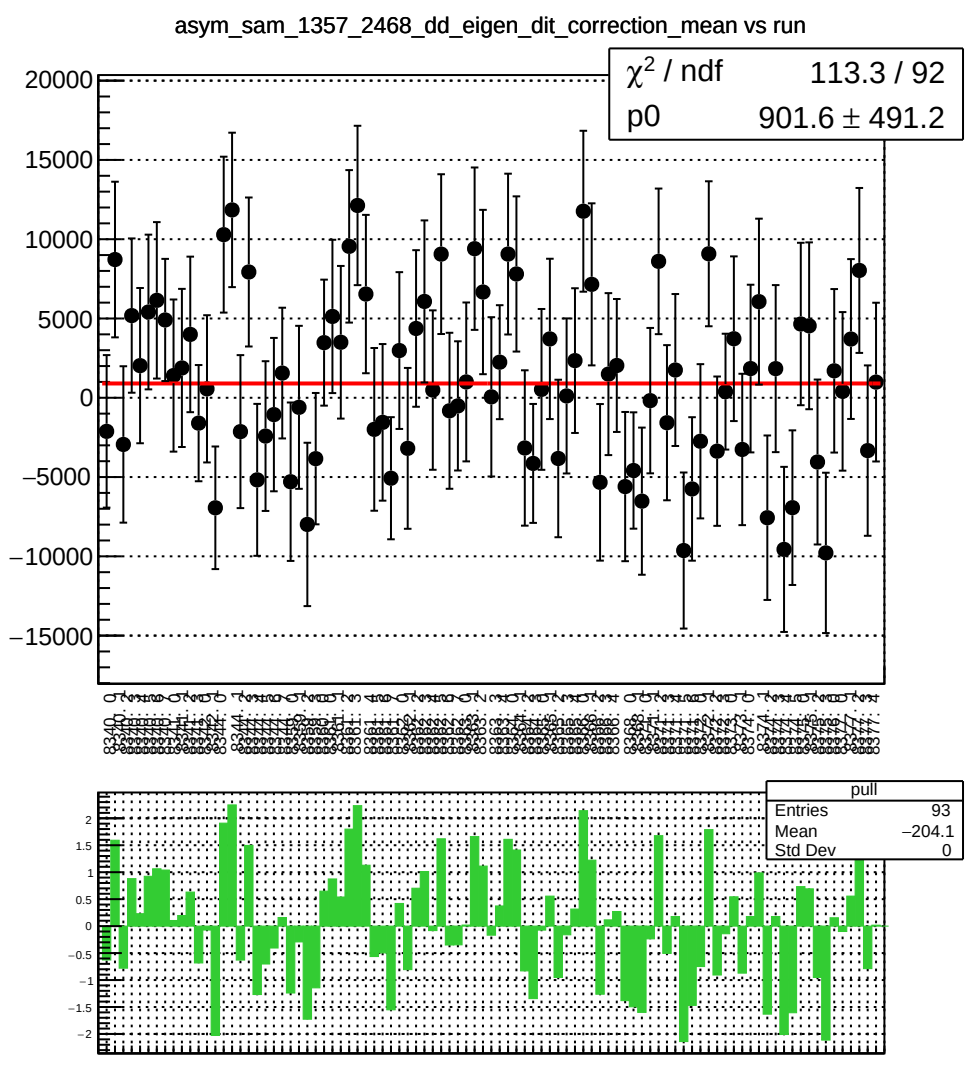

pull1D
Entries 93
Mean 0.02173
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

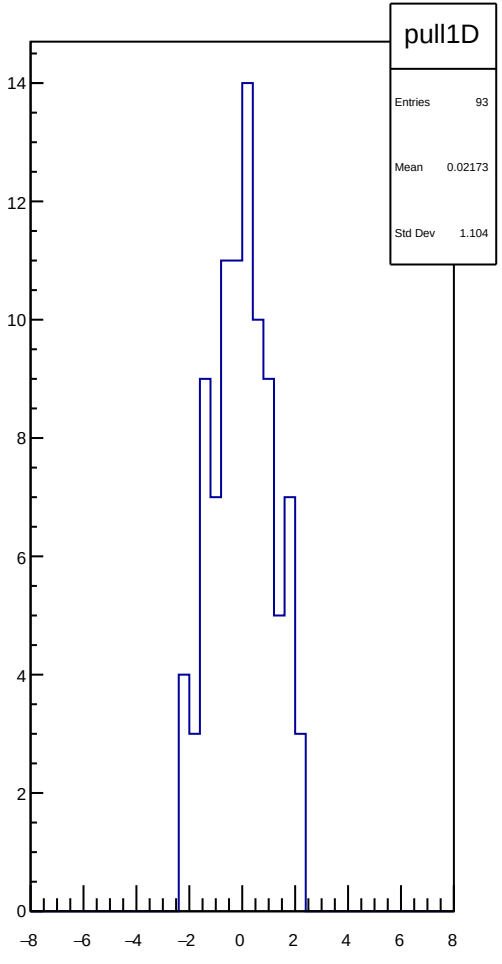

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2516 / 92
p0 470 ± 0.3473
520
500
480
460
440

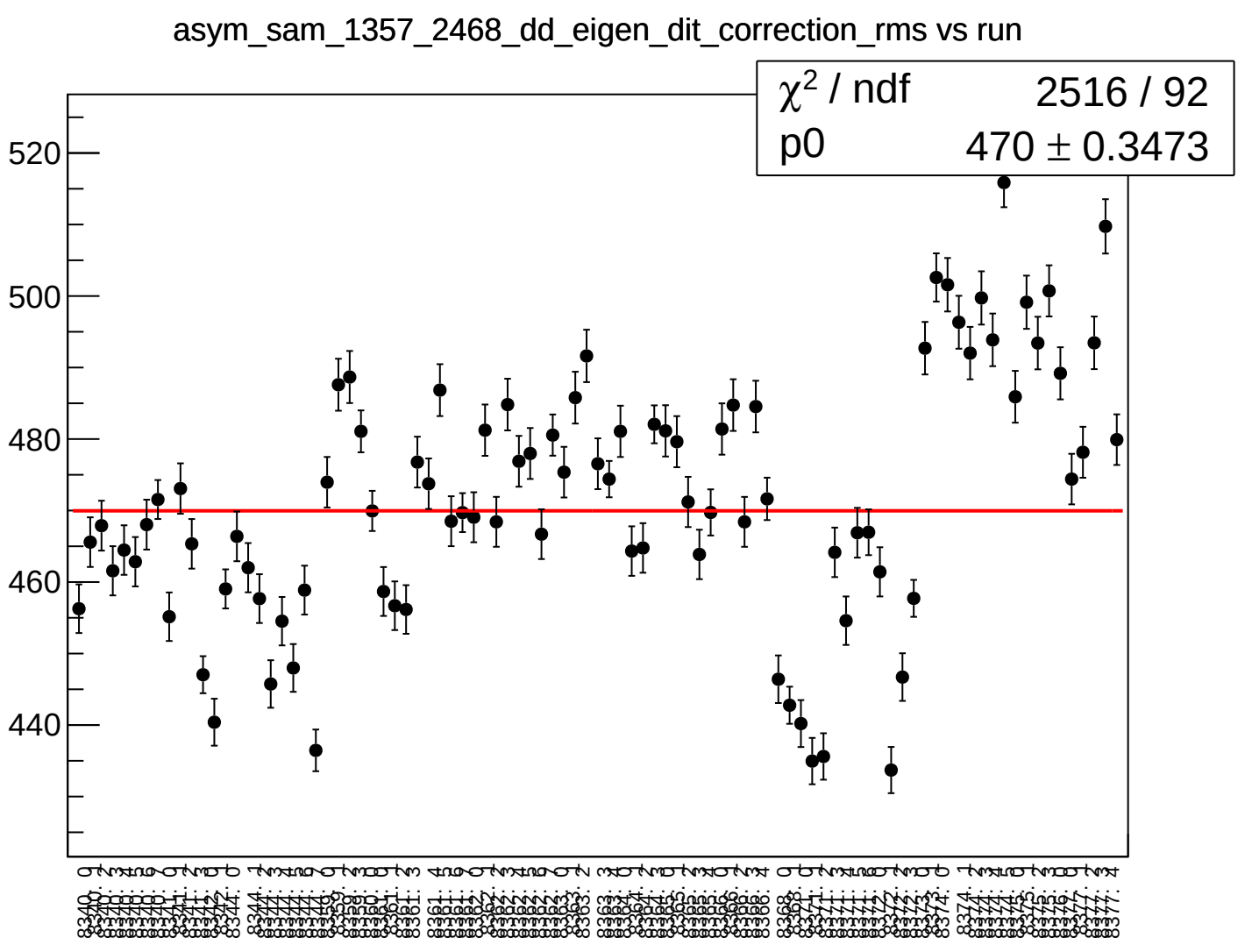

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.65 / 92
p0 −43.58 ± 35.16
1500
1000
500
0
−500
−1000
pull
Entries 93
Mean −87.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

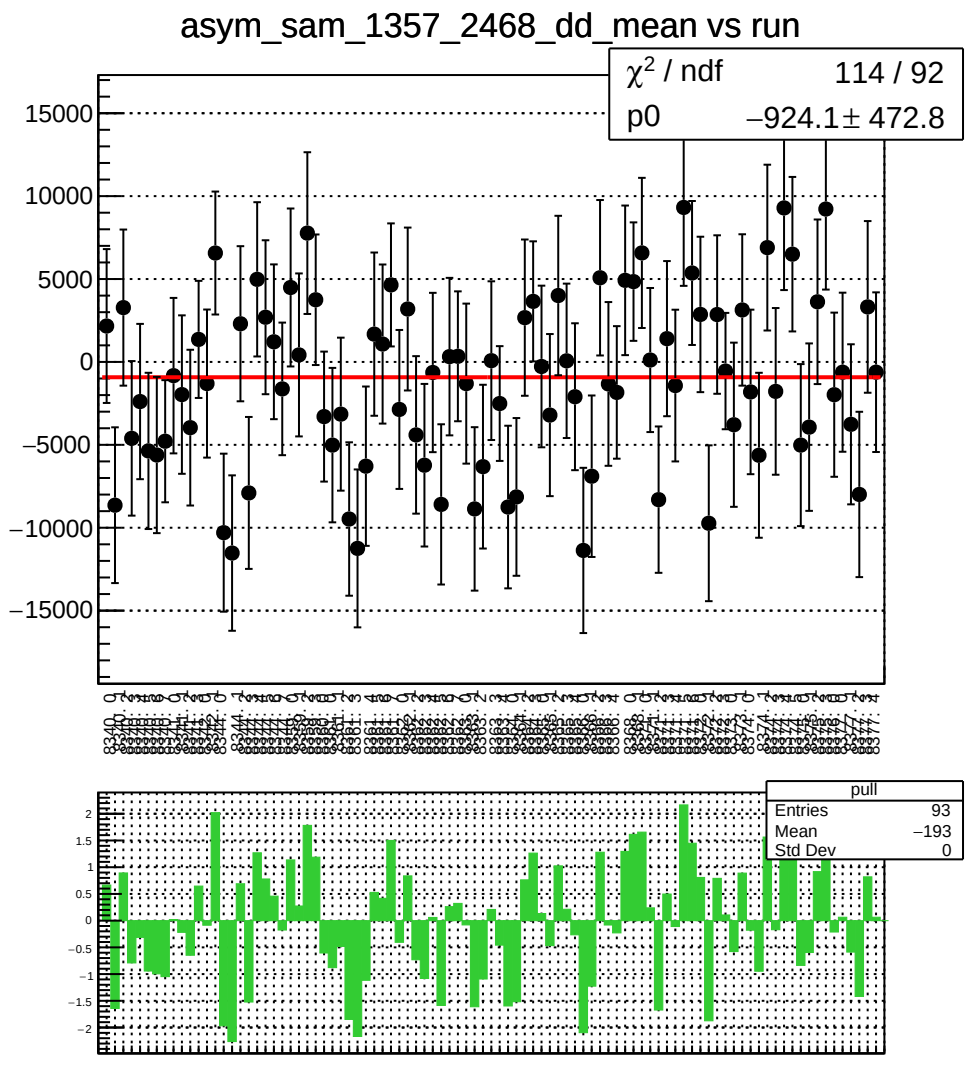

pull1D
Entries 93
Mean 0.03049
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

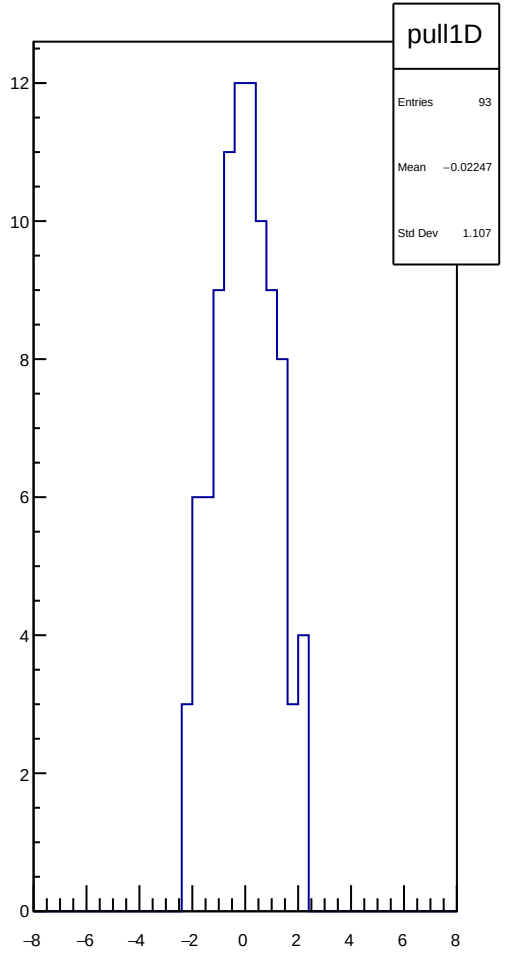

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.394e+04 / 92
p0 33.54 ± 0.02486
50
45
40
35
30

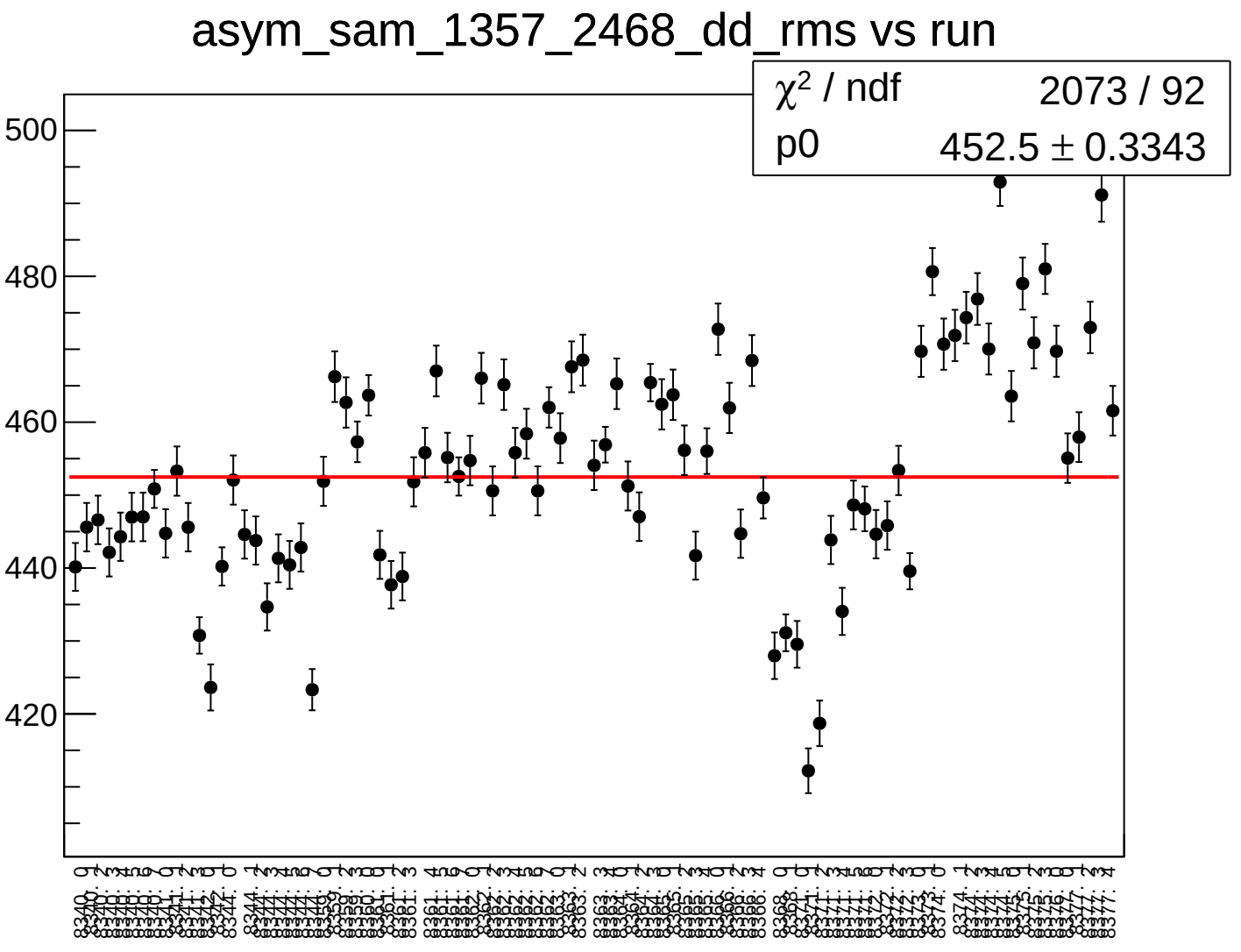

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.3 / 92
p0 901.6 ± 491.2
pull
Entries 93
Mean −204.1
Std Dev 0

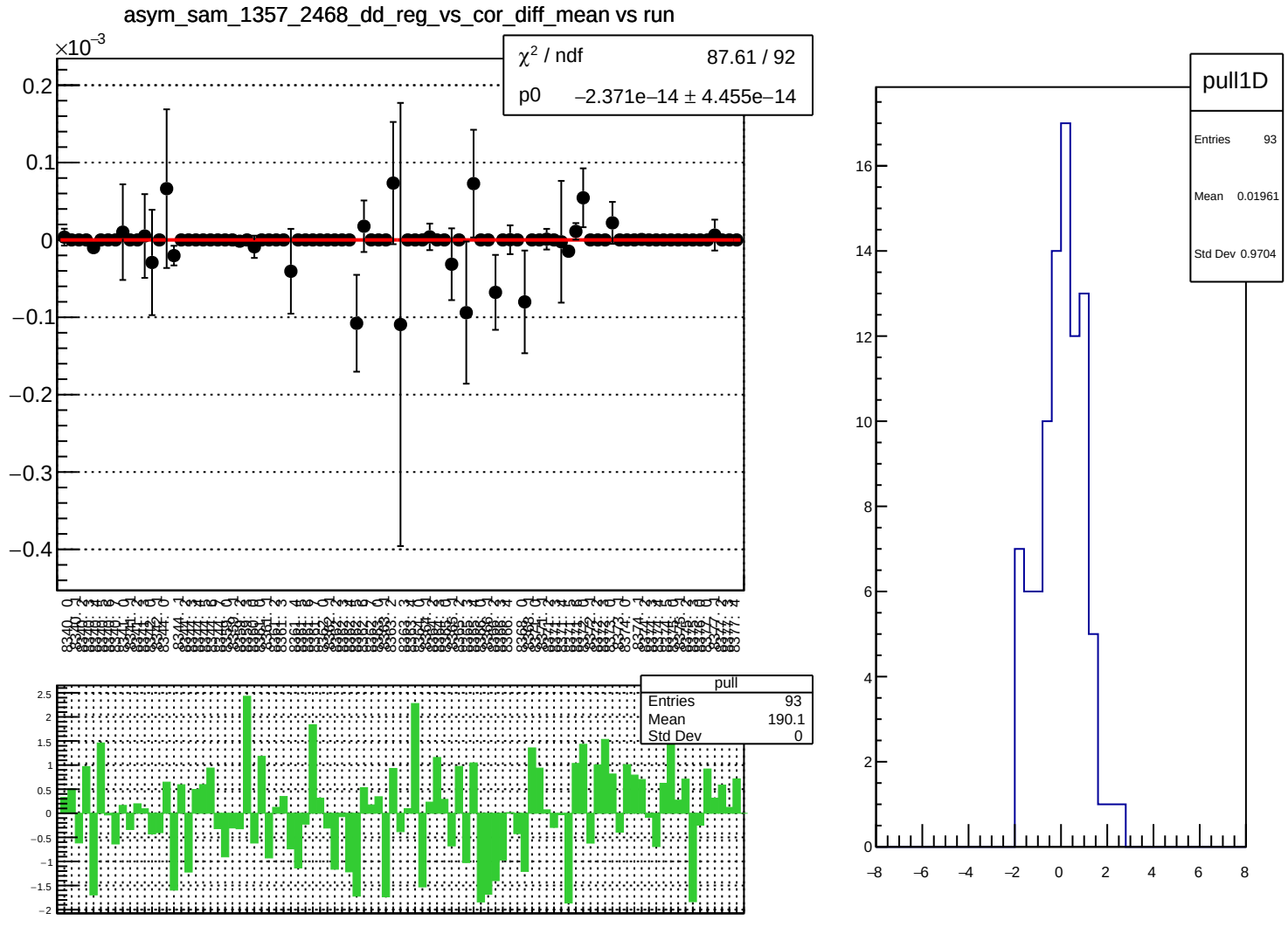

pull1D
Entries 93
Mean 0.02173
Std Dev 1.104

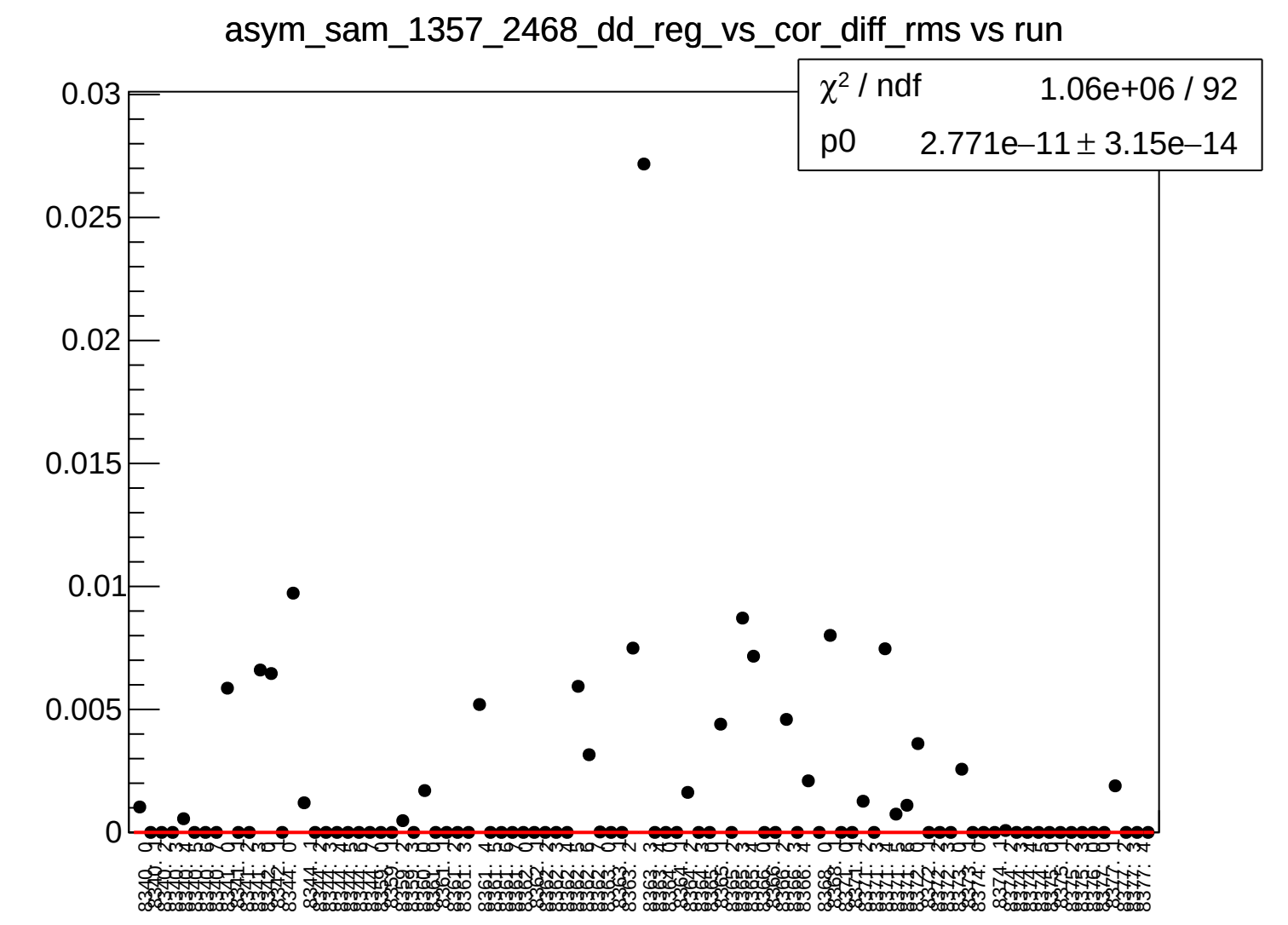

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2516 / 92
p0 470 ± 0.3473
520
500
480
460
440

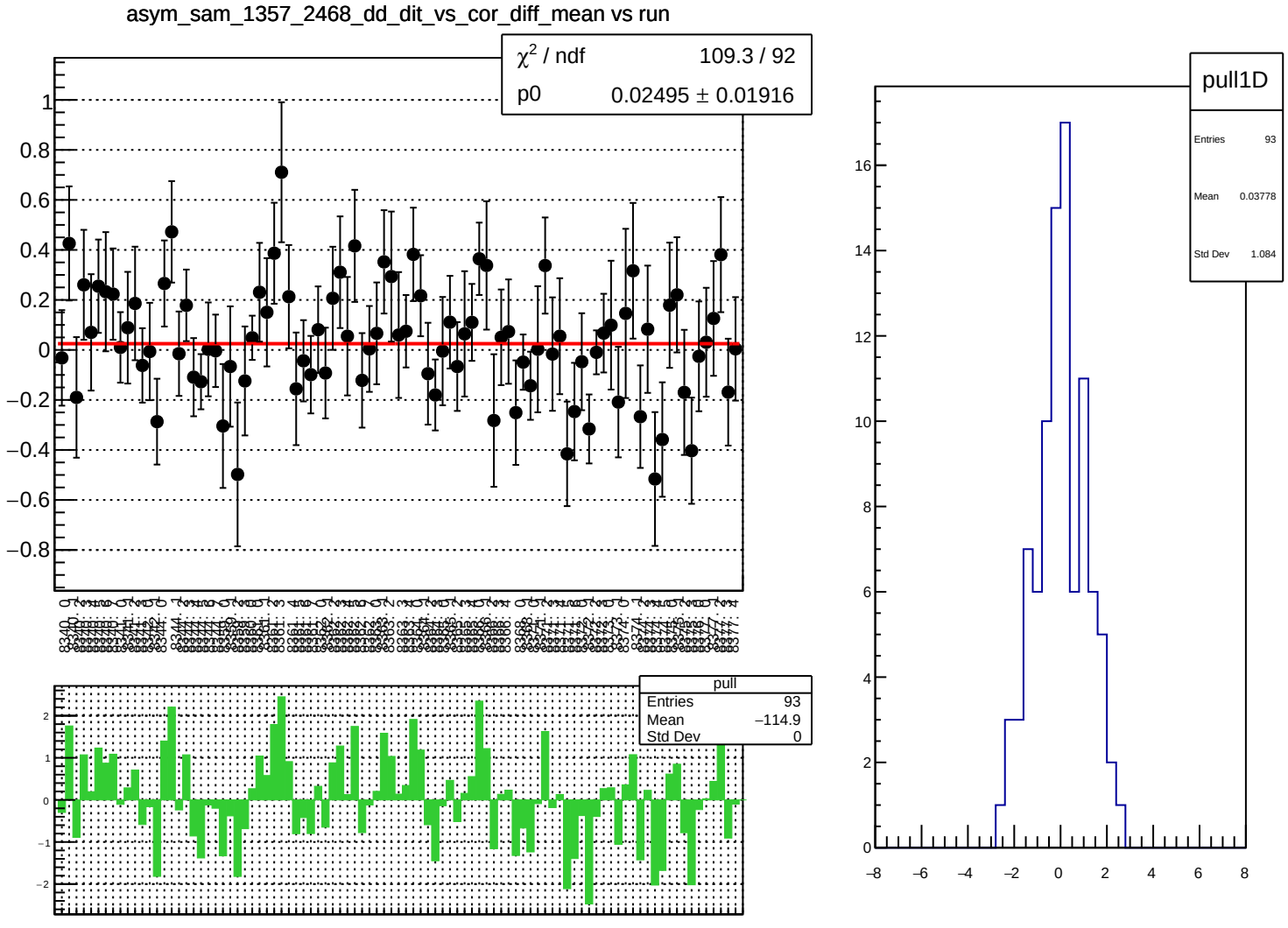

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 114 / 92
p0 −924.1 ± 472.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −193
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

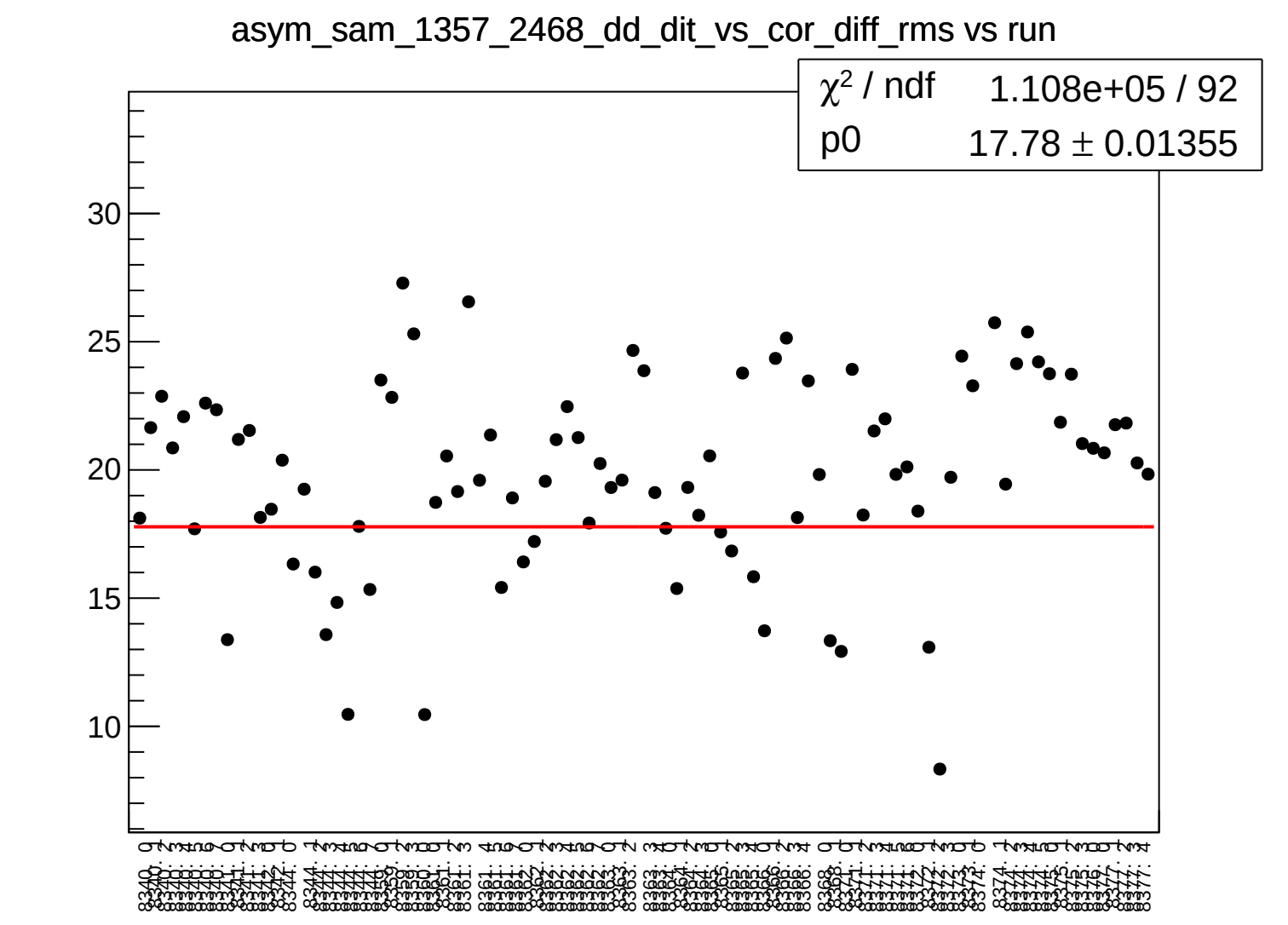

pull1D
Entries 93
Mean −0.02247
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

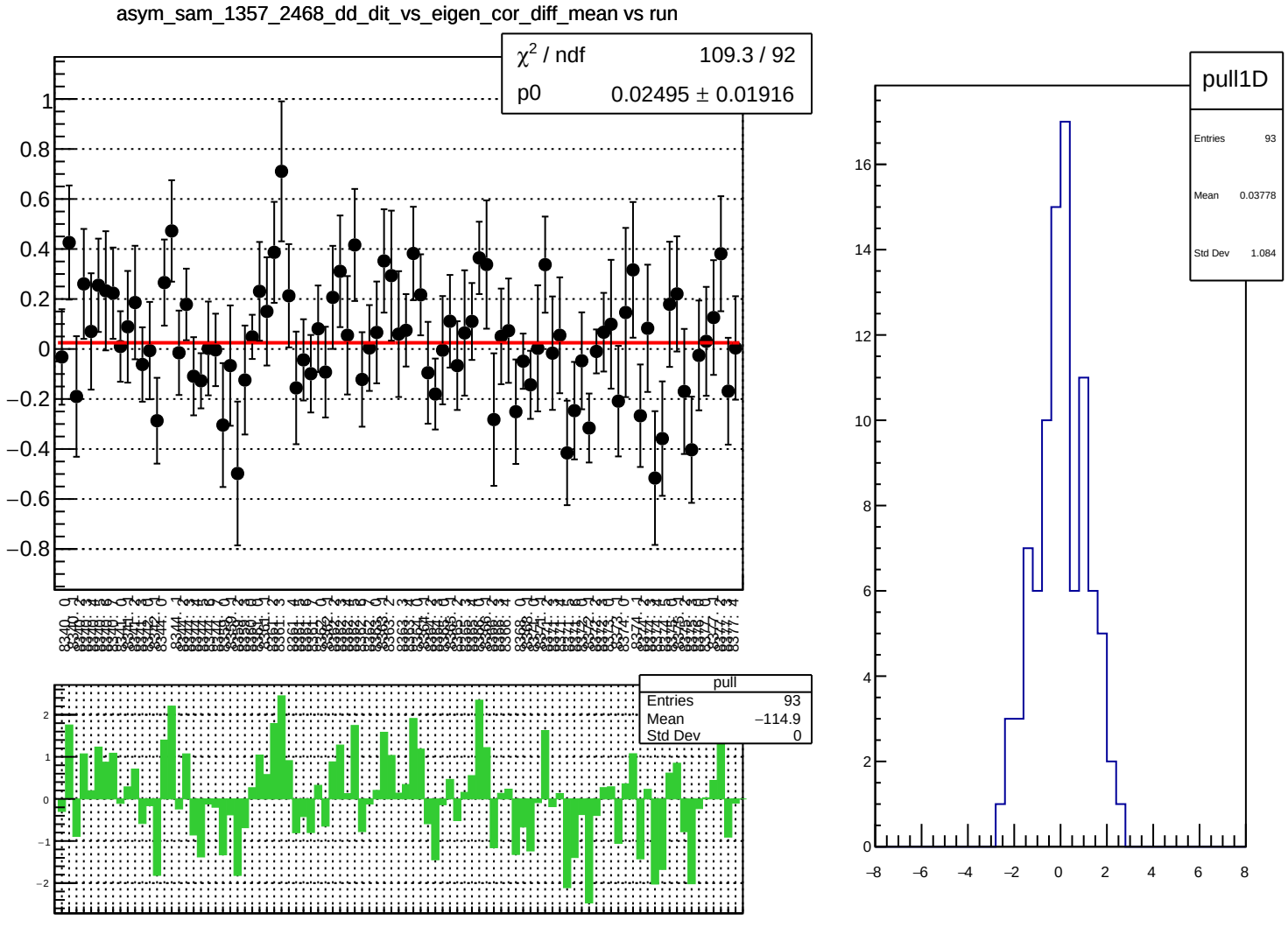

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2073 / 92
p0 452.5 ± 0.3343
500
480
460
440
420

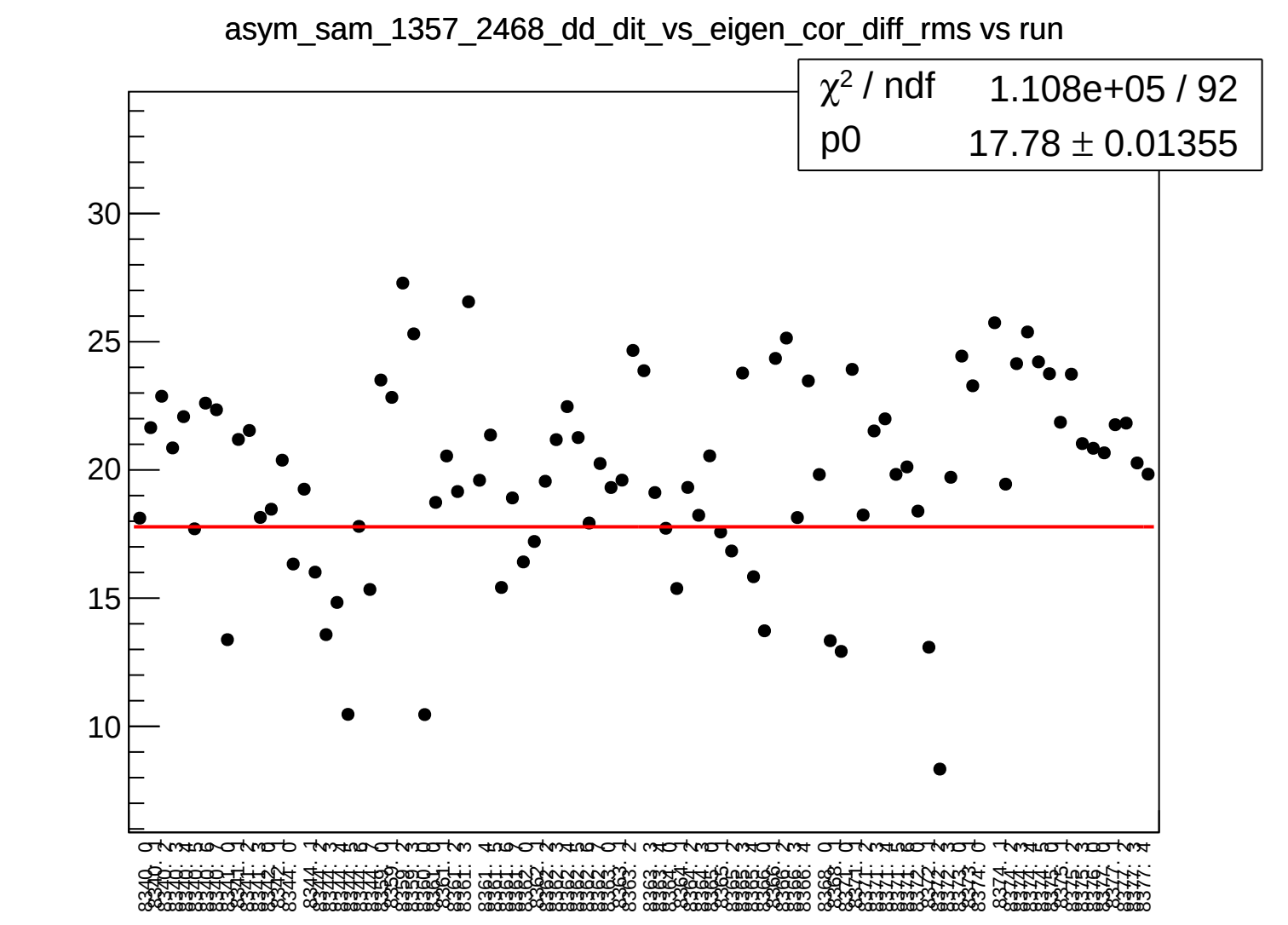

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 87.61 / 92
p0 −2.371e−14 ± 4.455e−14
pull
Entries 93
Mean 190.1
Std Dev 0
pull1D
Entries 93
Mean 0.01961
Std Dev 0.9704

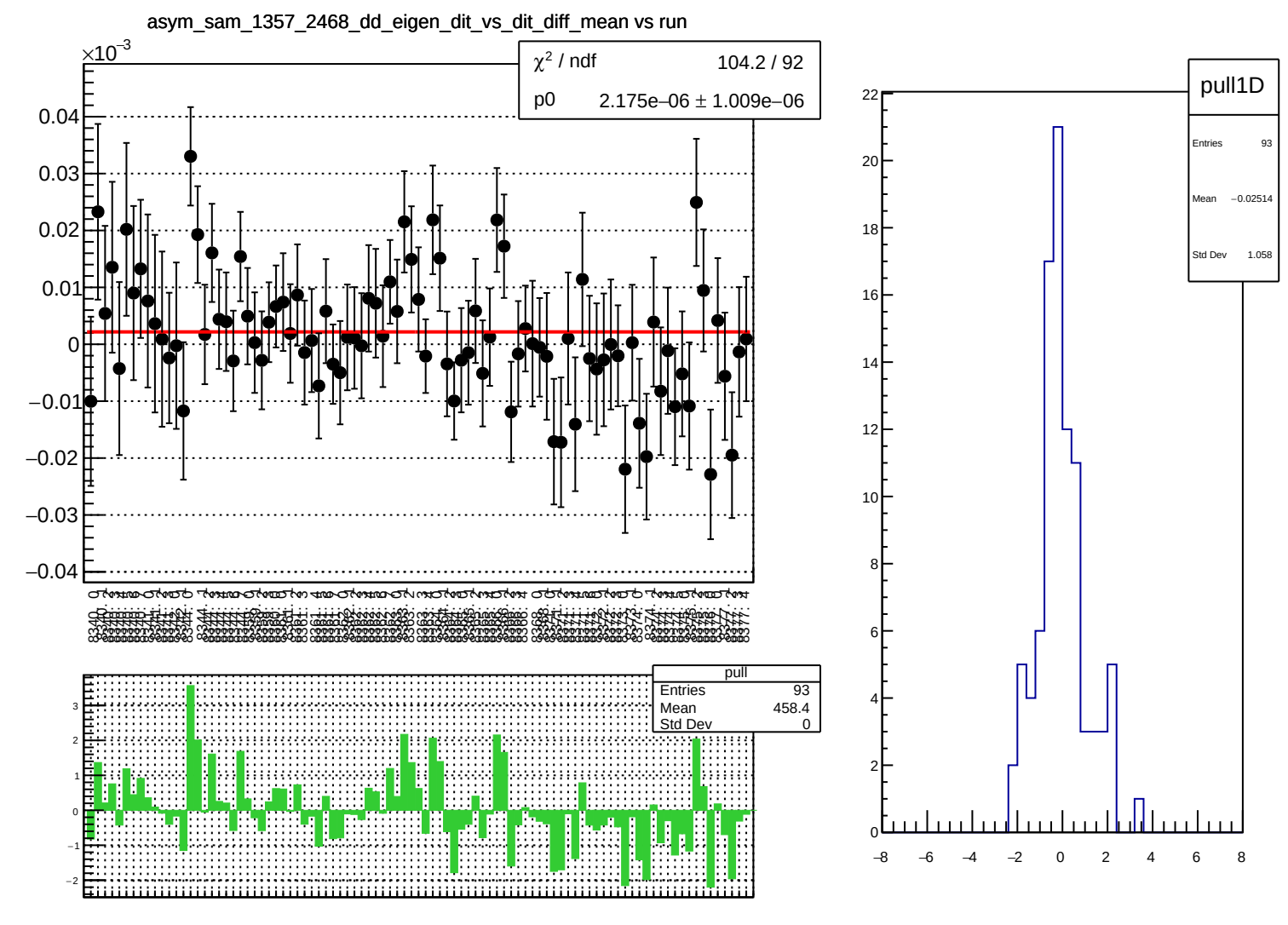

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.06e+06 / 92
p0 2.771e−11 ± 3.15e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

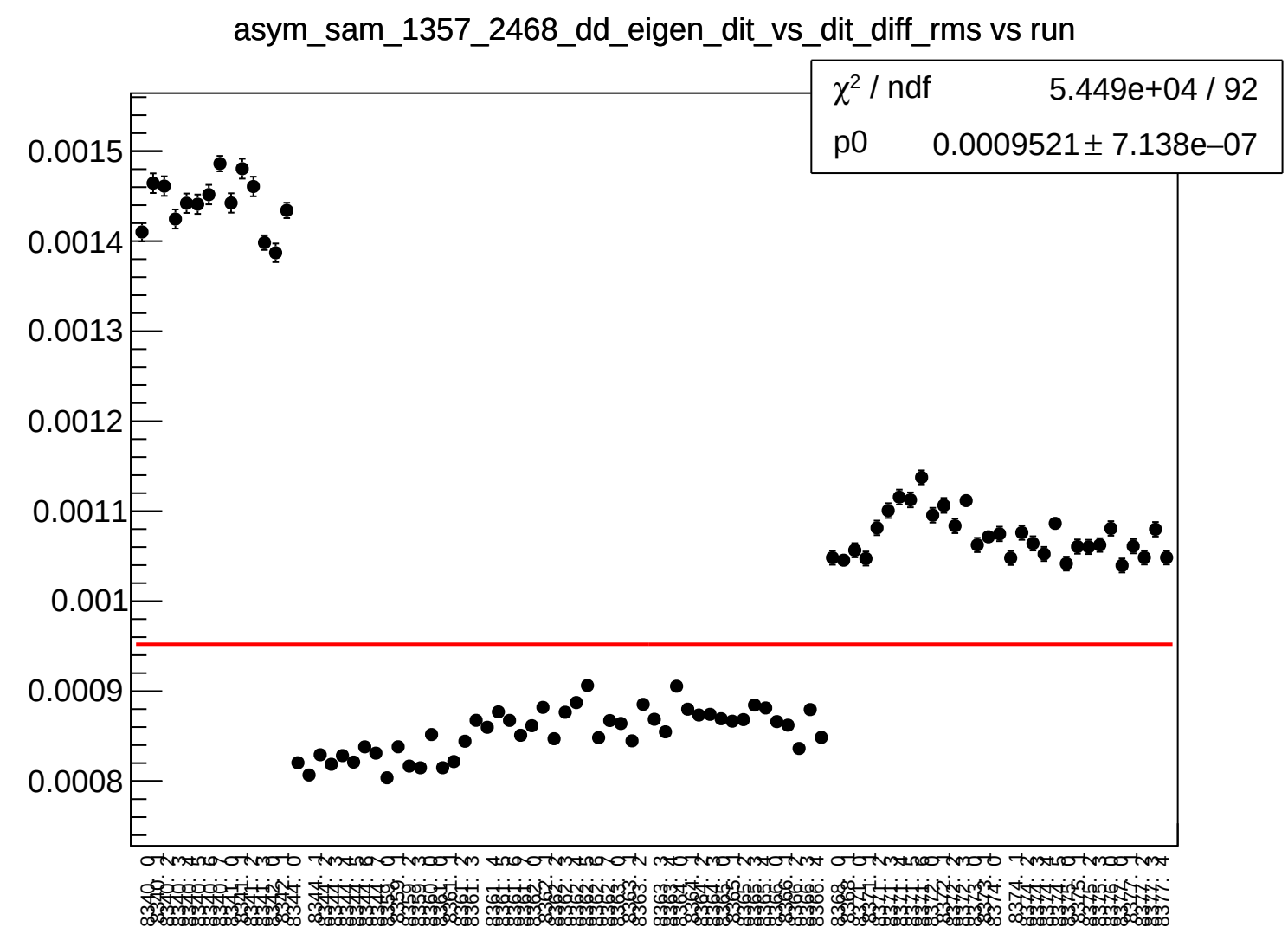

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.02495 ± 0.01916
pull
Entries 93
Mean −114.9
Std Dev 0
pull1D
Entries 93
Mean 0.03778
Std Dev 1.084

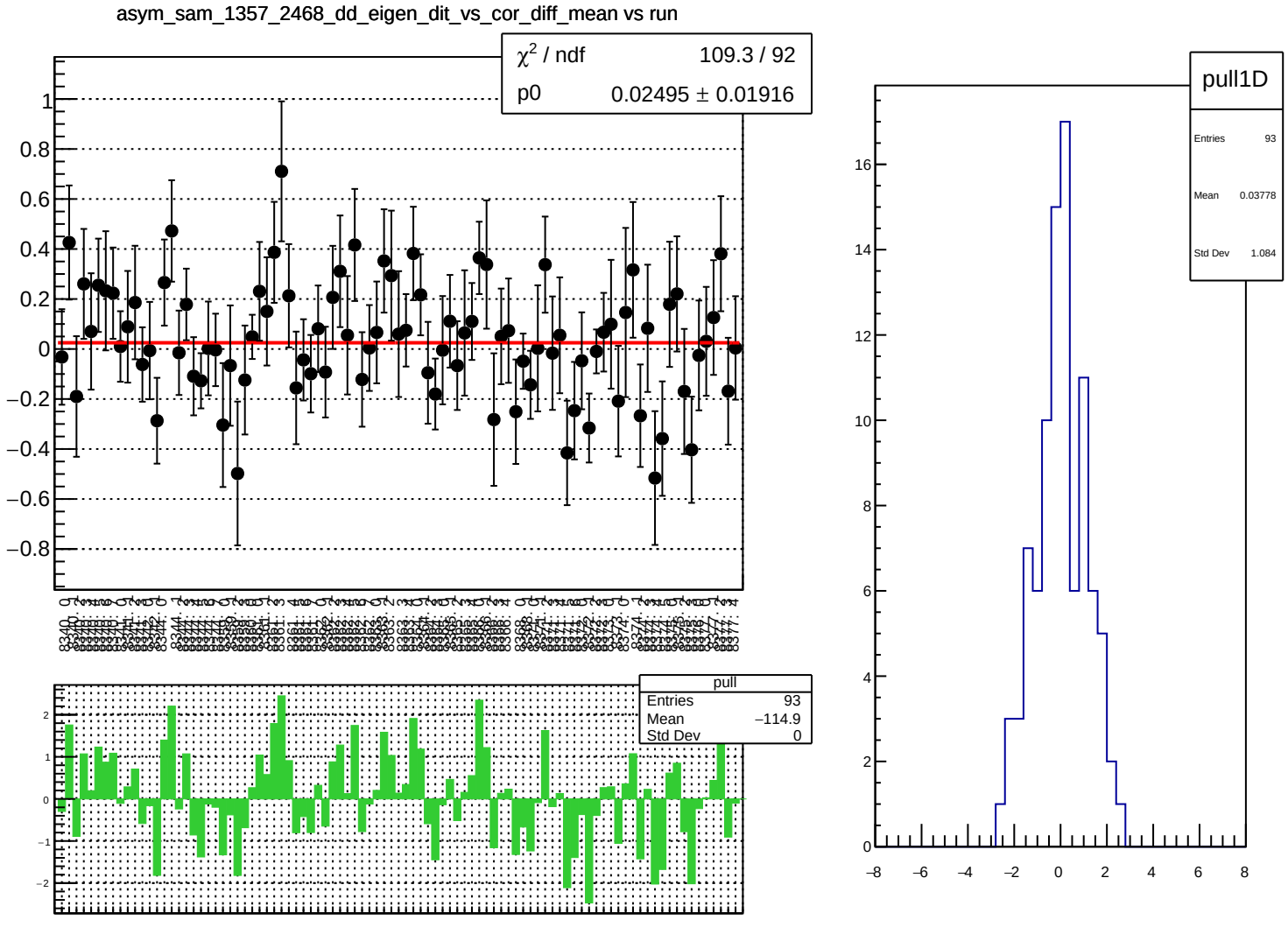

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.108e+05 / 92
p0 17.78 ± 0.01355
30
25
20
15
10

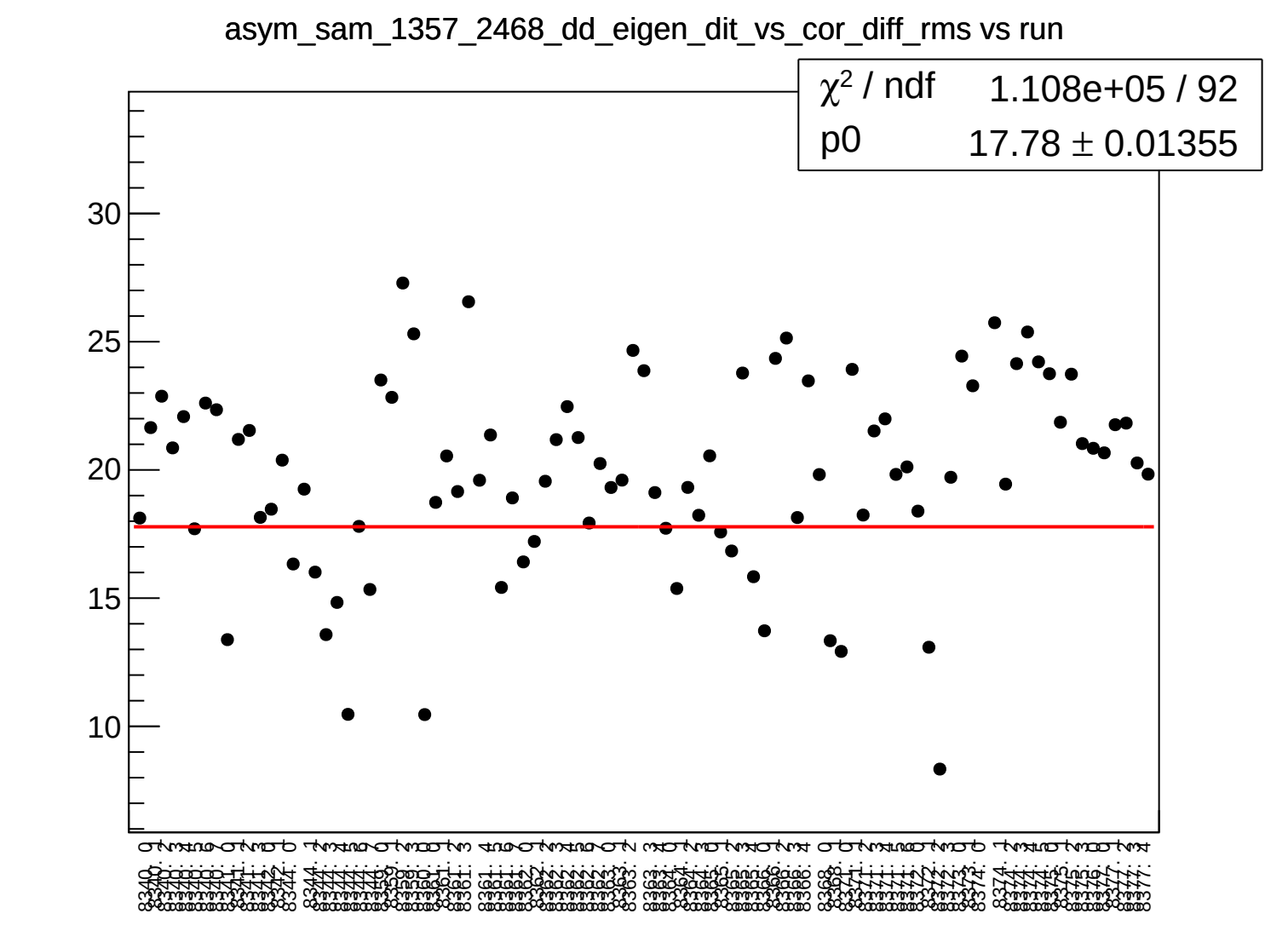

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.02495 ± 0.01916
pull
Entries 93
Mean −114.9
Std Dev 0
pull1D
Entries 93
Mean 0.03778
Std Dev 1.084

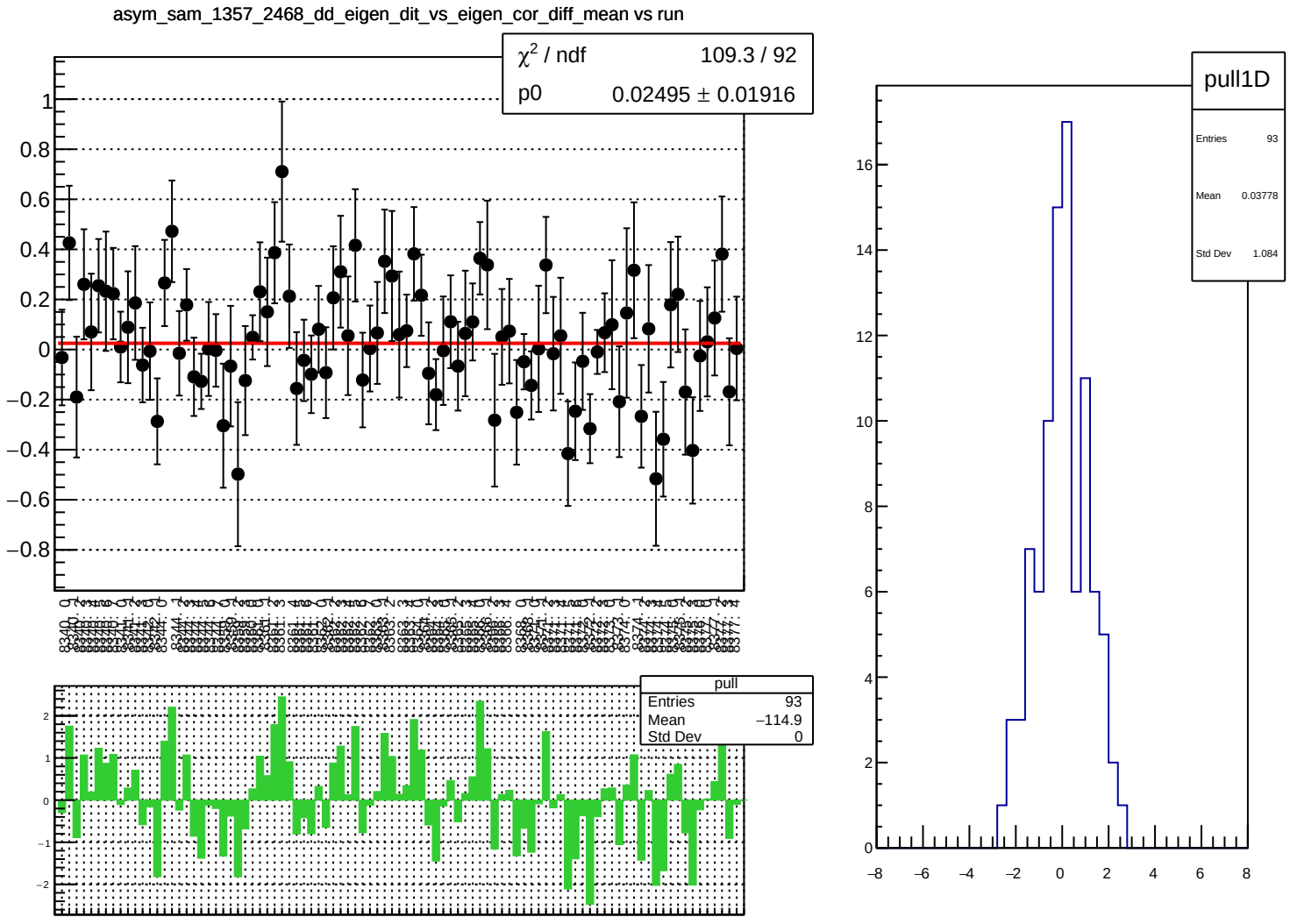

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.108e+05 / 92
p0 17.78 ± 0.01355
30
25
20
15
10

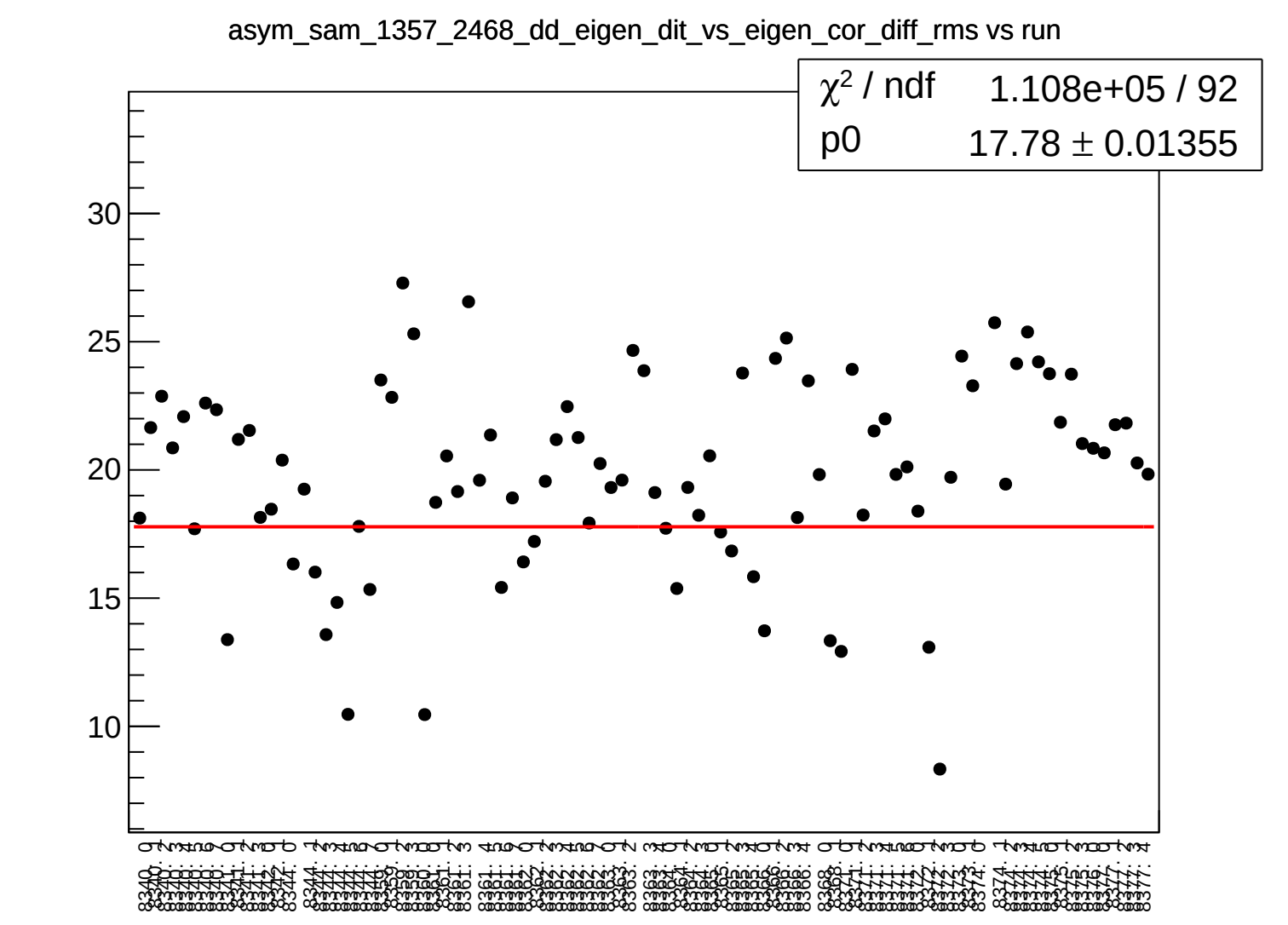

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.2 / 92
p0 2.175e−06 ± 1.009e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 93
Mean 458.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.02514
Std Dev 1.058
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

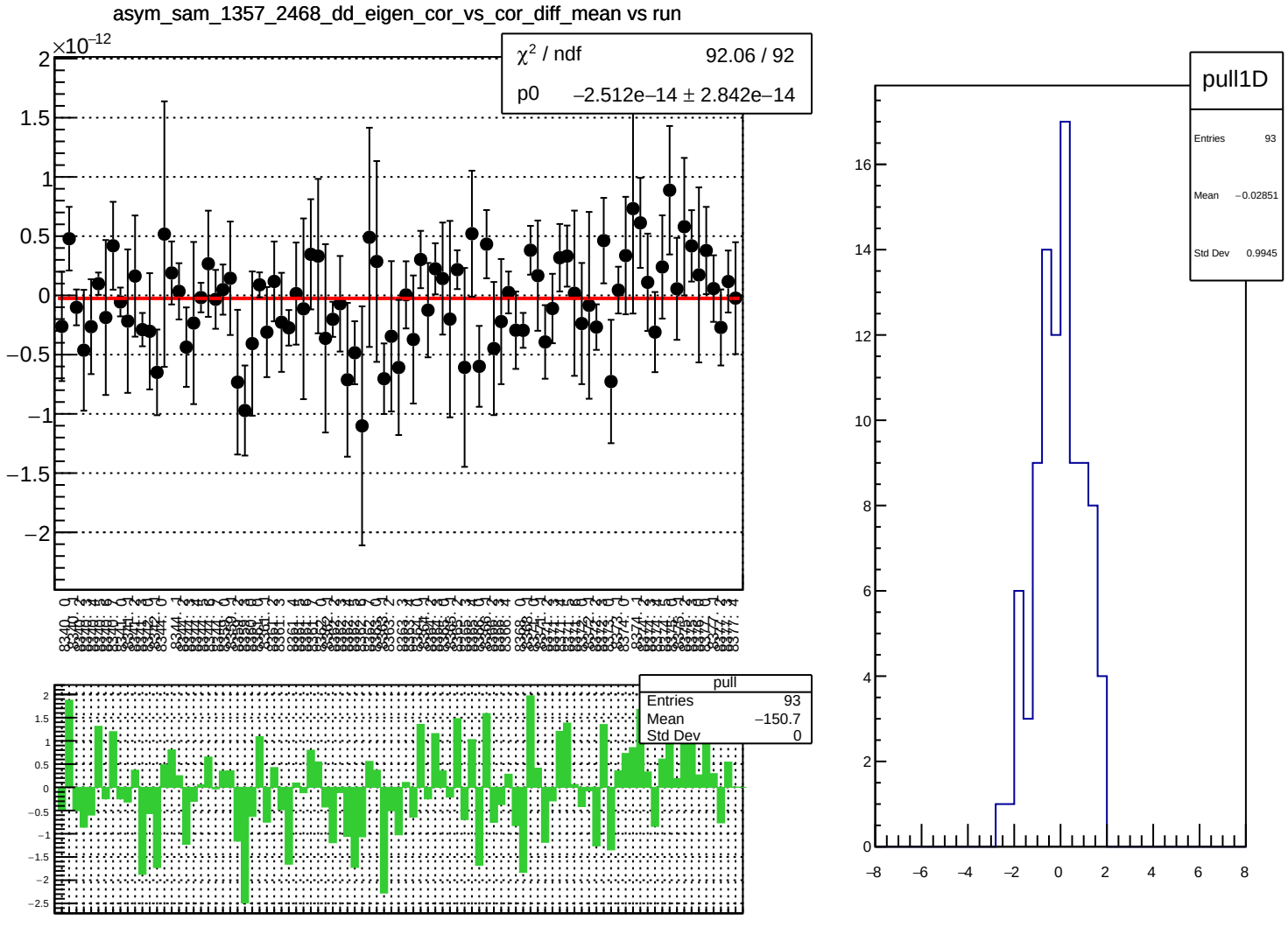

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.449e+04 / 92
p0 0.0009521 ± 7.138e−07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

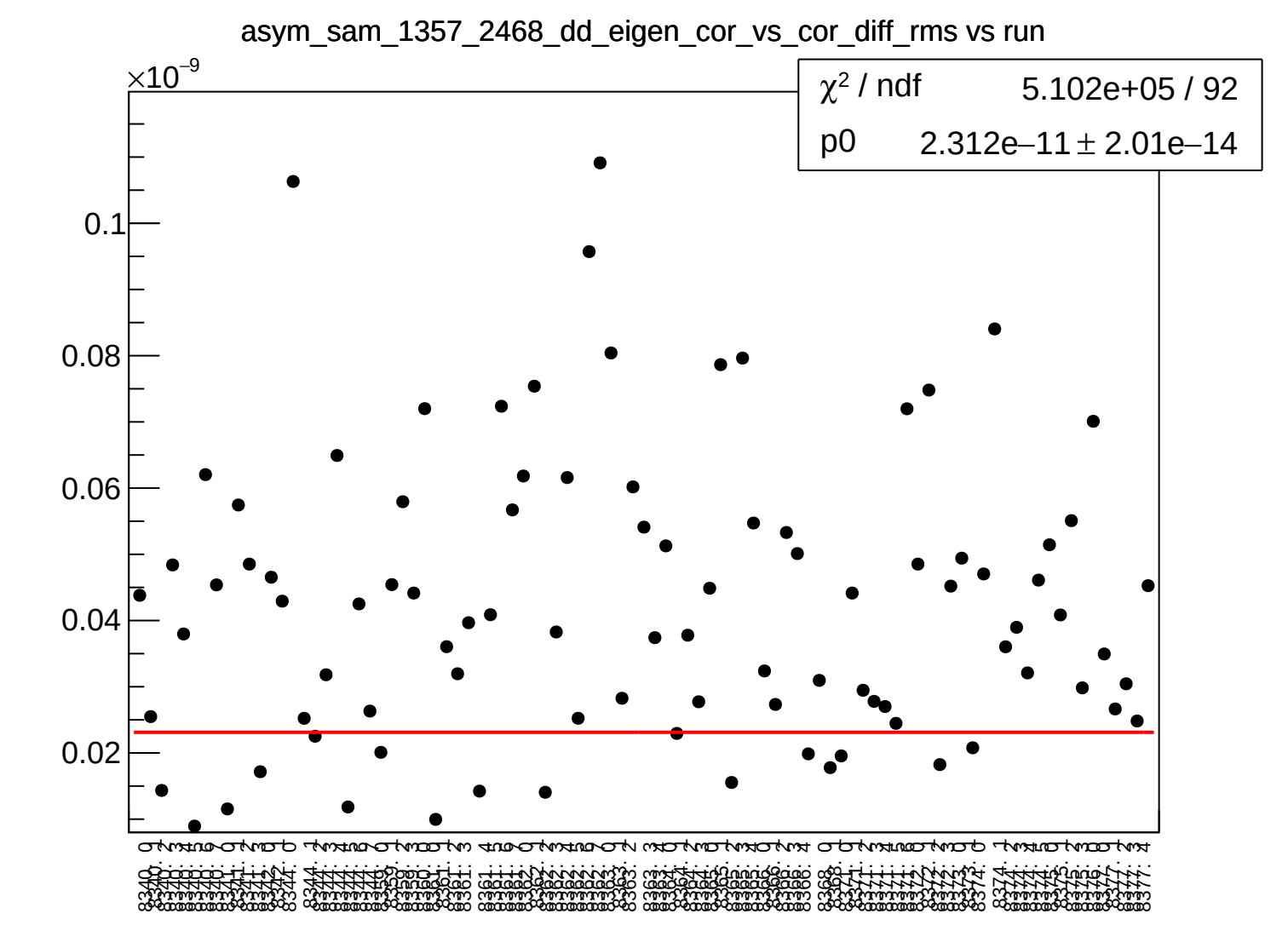

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.02495 ± 0.01916
pull
Entries 93
Mean −114.9
Std Dev 0
pull1D
Entries 93
Mean 0.03778
Std Dev 1.084

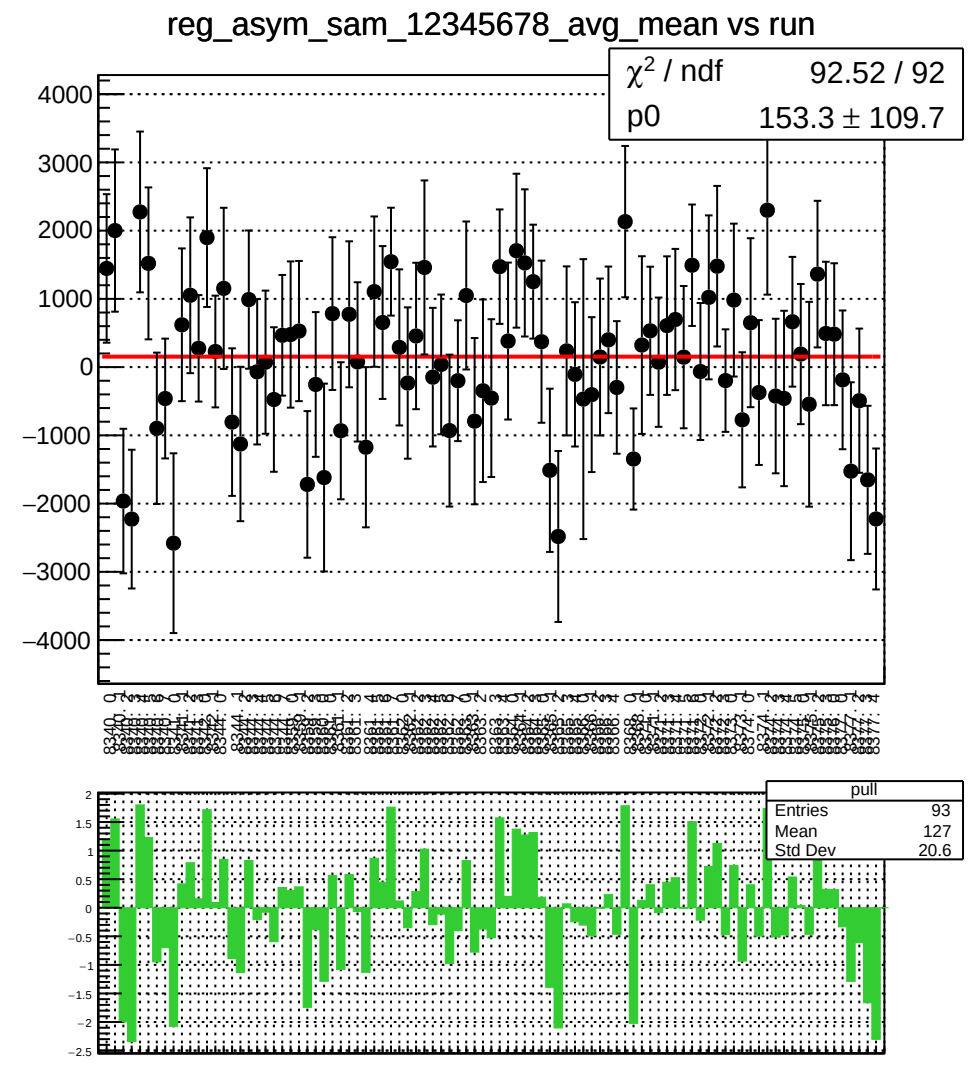

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.108e+05 / 92
p0 17.78 ± 0.01355
30
25
20
15
10

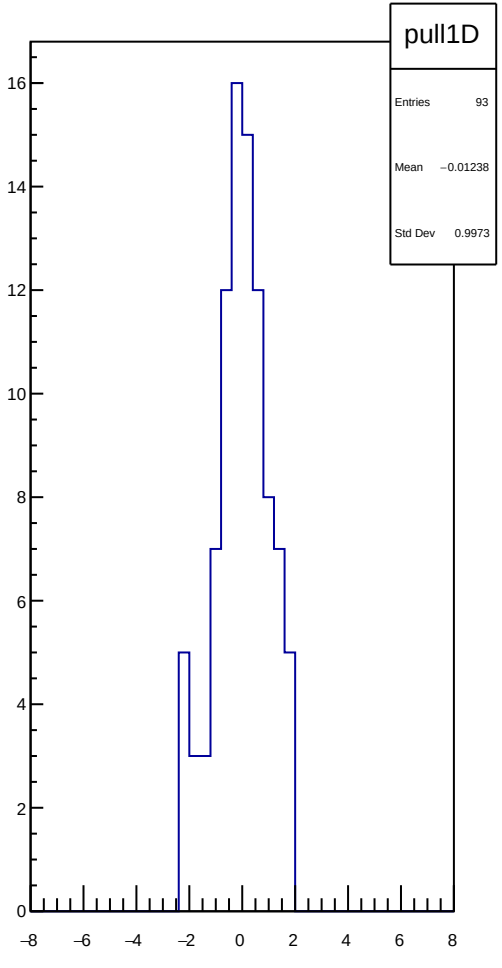

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.3 / 92
p0 0.02495 ± 0.01916
pull
Entries 93
Mean −114.9
Std Dev 0
pull1D
Entries 93
Mean 0.03778
Std Dev 1.084

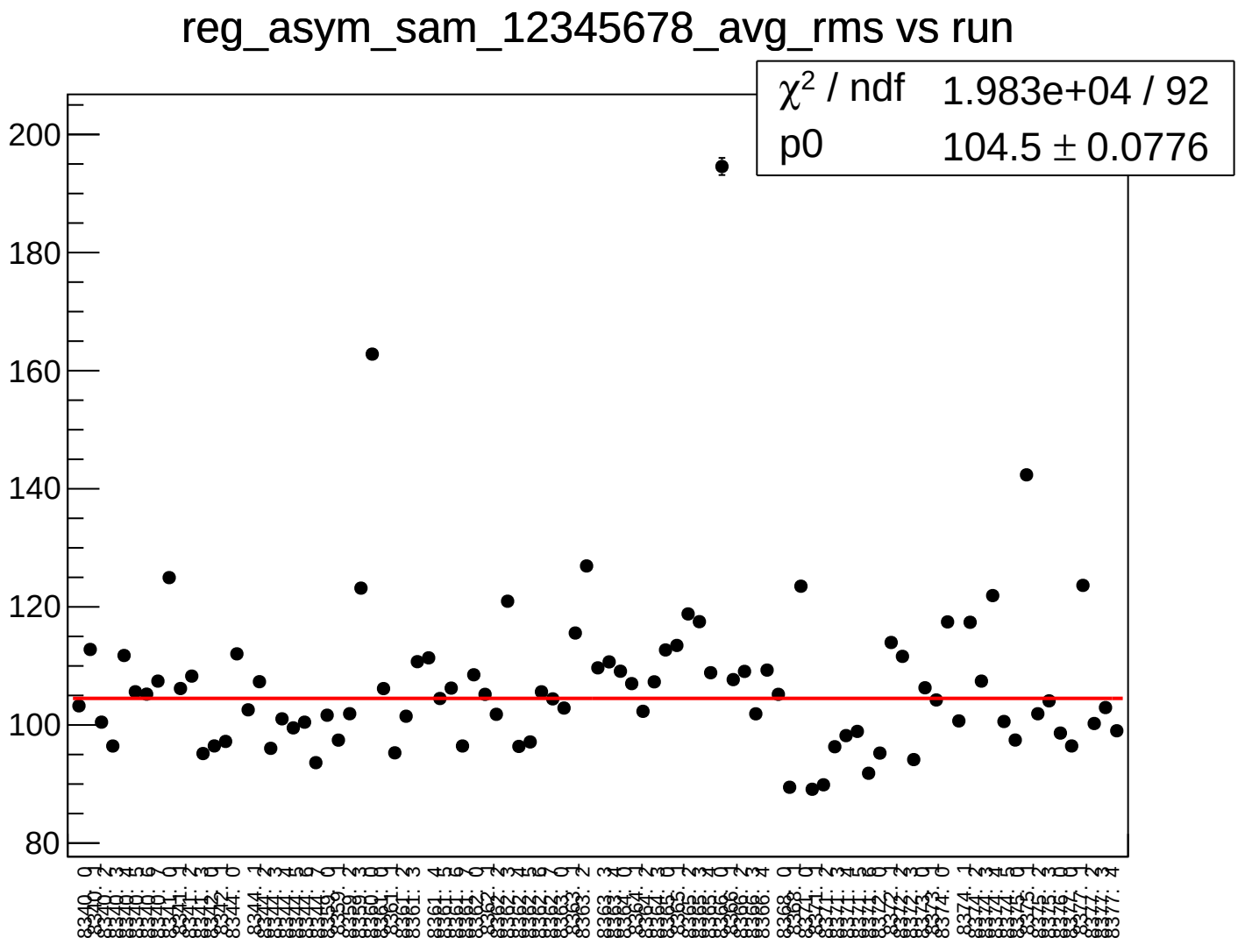

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.108e+05 / 92
p0 17.78 ± 0.01355
30
25
20
15
10

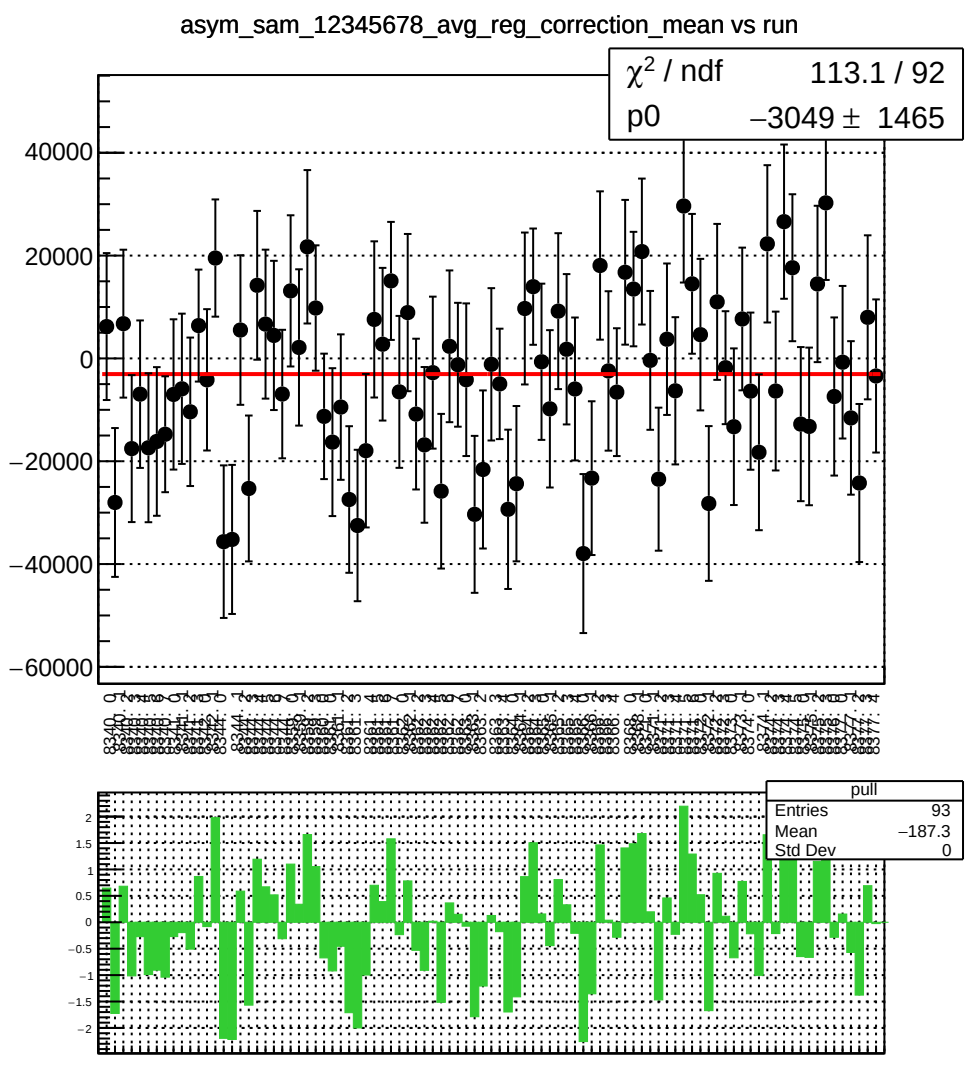

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 92.06 / 92
p0 −2.512e−14 ± 2.842e−14
pull
Entries 93
Mean −150.7
Std Dev 0
pull1D
Entries 93
Mean −0.02851
Std Dev 0.9945

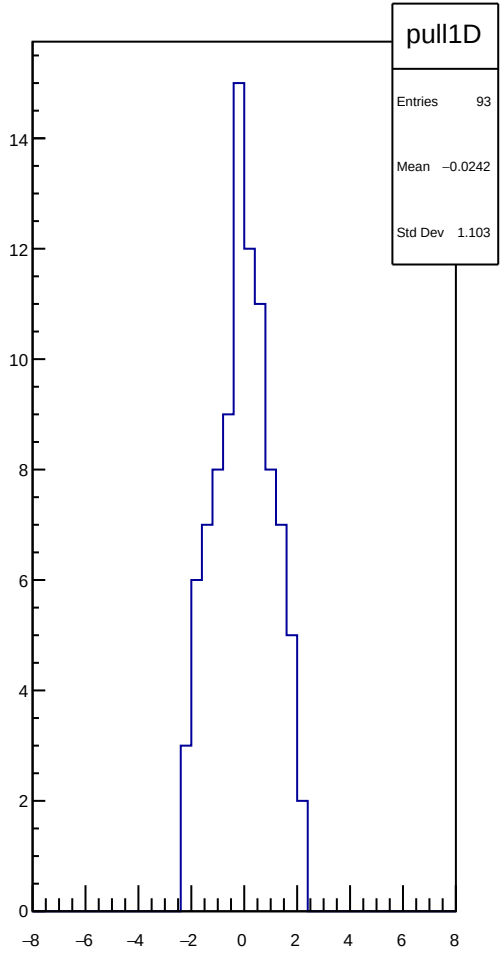

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.102e+05 / 92
p0 2.312e−11 ± 2.01e−14
0.1
0.08
0.06
0.04
0.02

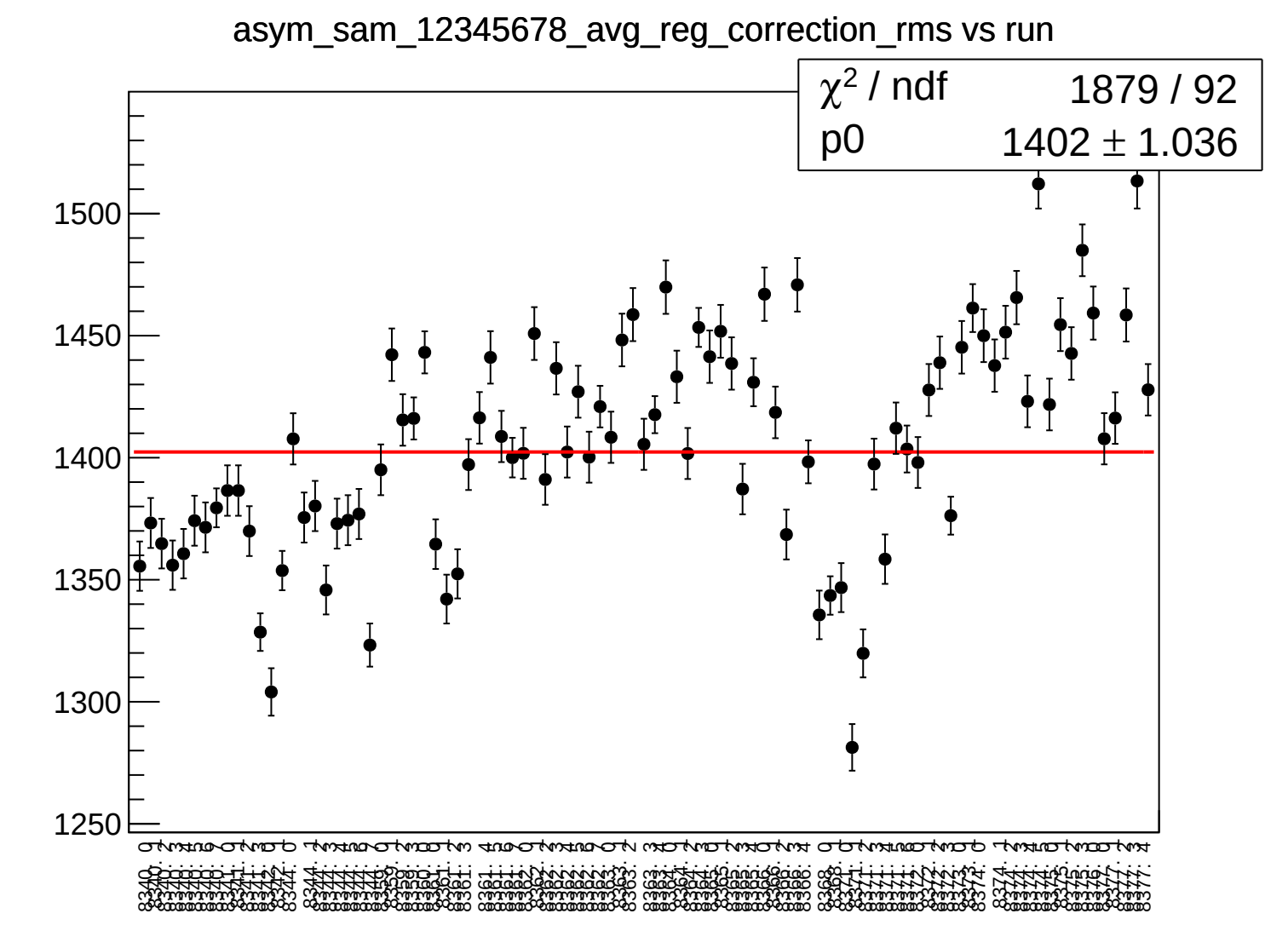

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.52 / 92
p0 153.3 ± 109.7
pull
Entries 93
Mean 127
Std Dev 20.6

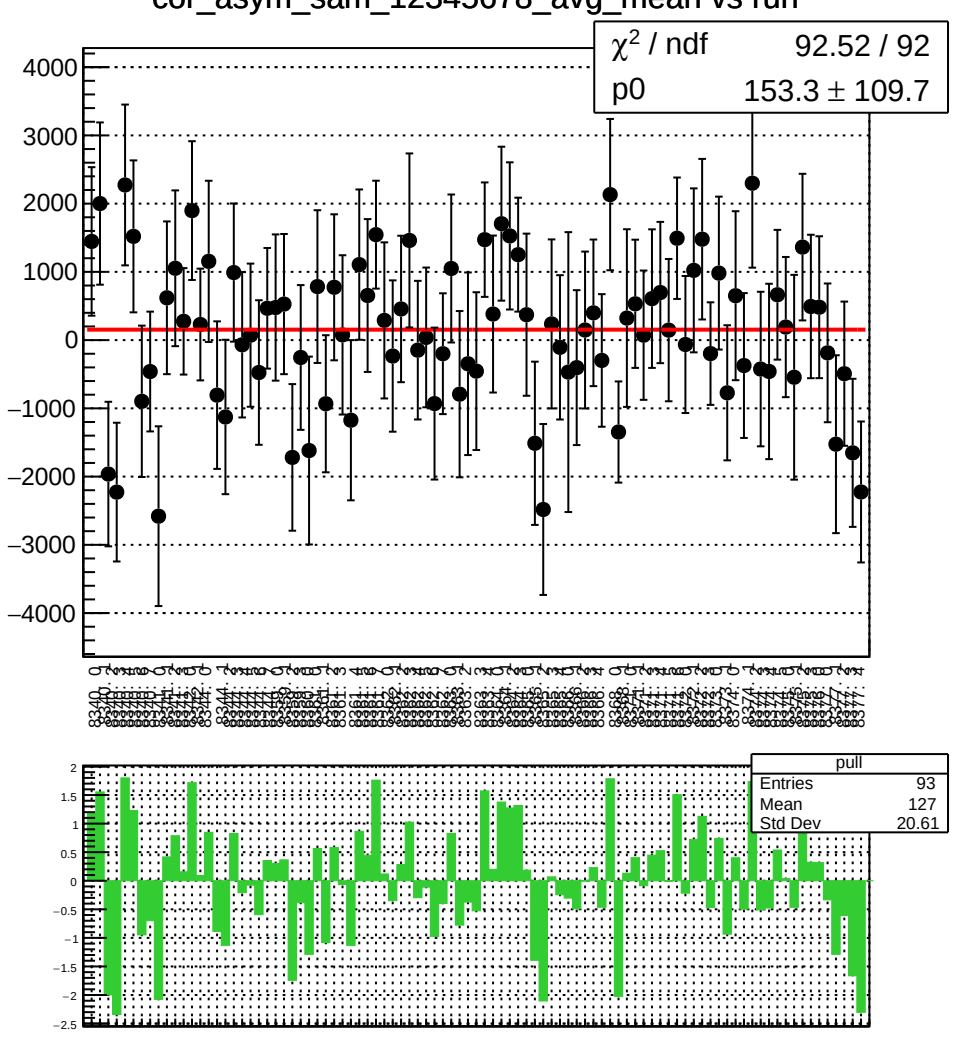

pull1D
Entries 93
Mean −0.01238
Std Dev 0.9973

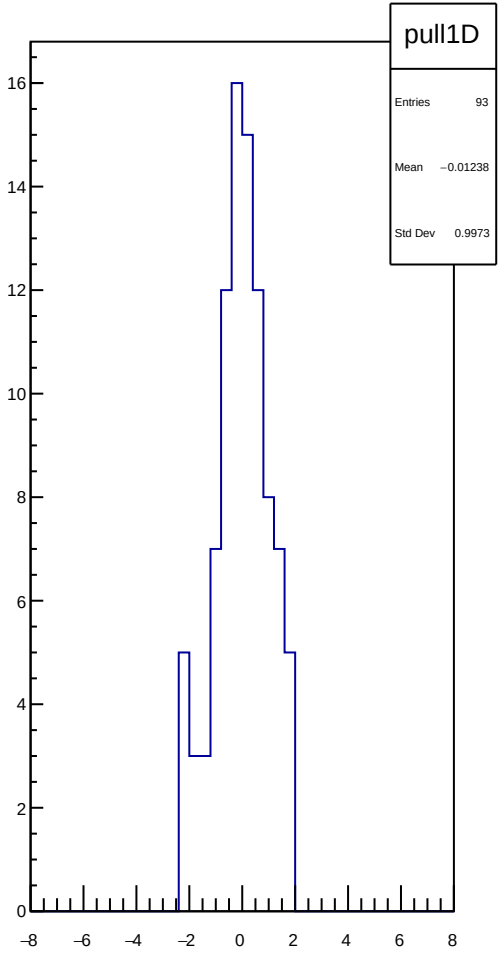

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.983e+04 / 92
p0 104.5 ± 0.0776
200
180
160
140
120
100
80

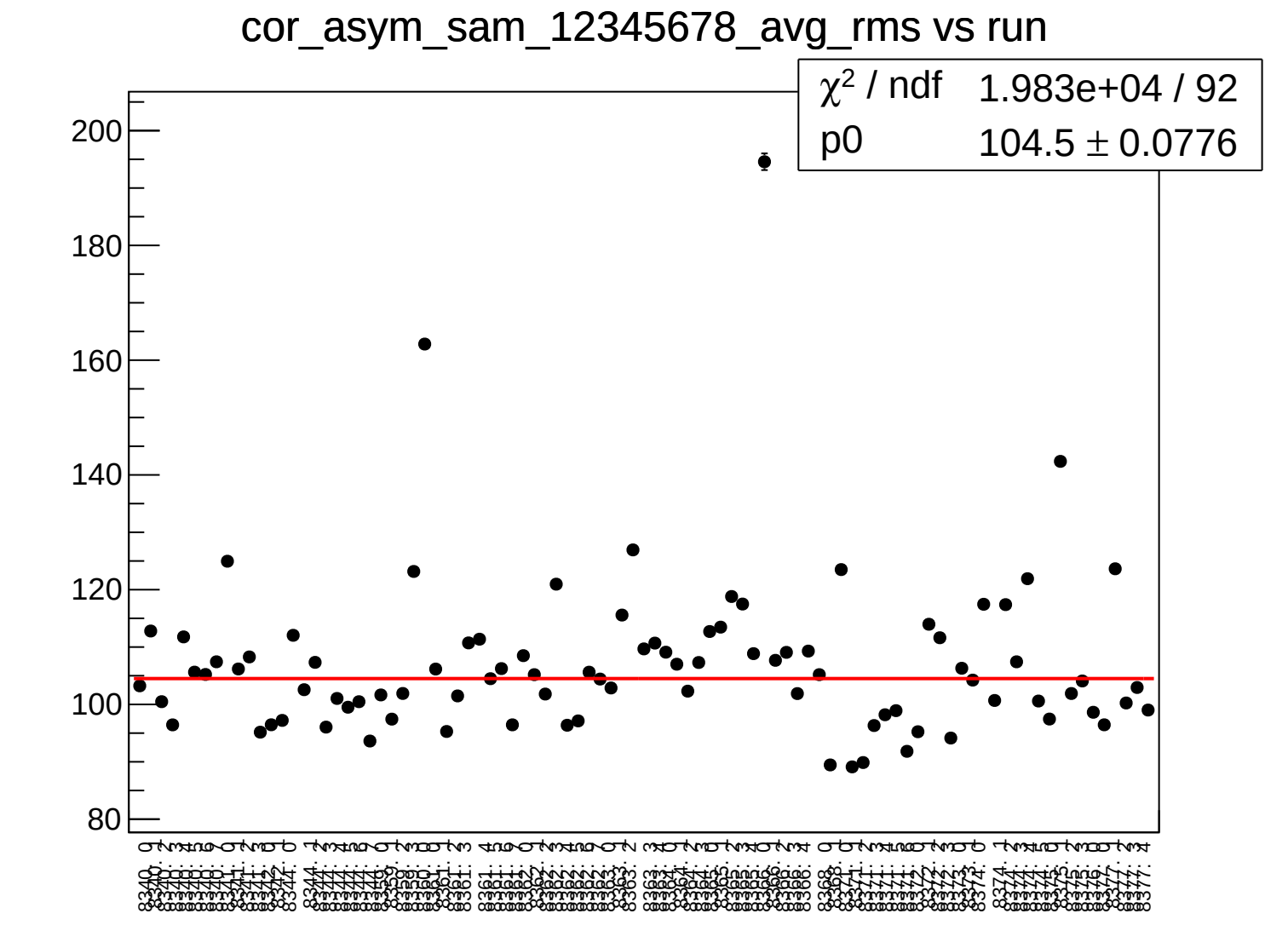

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 113.1 / 92
p0 −3049 ± 1465
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −187.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

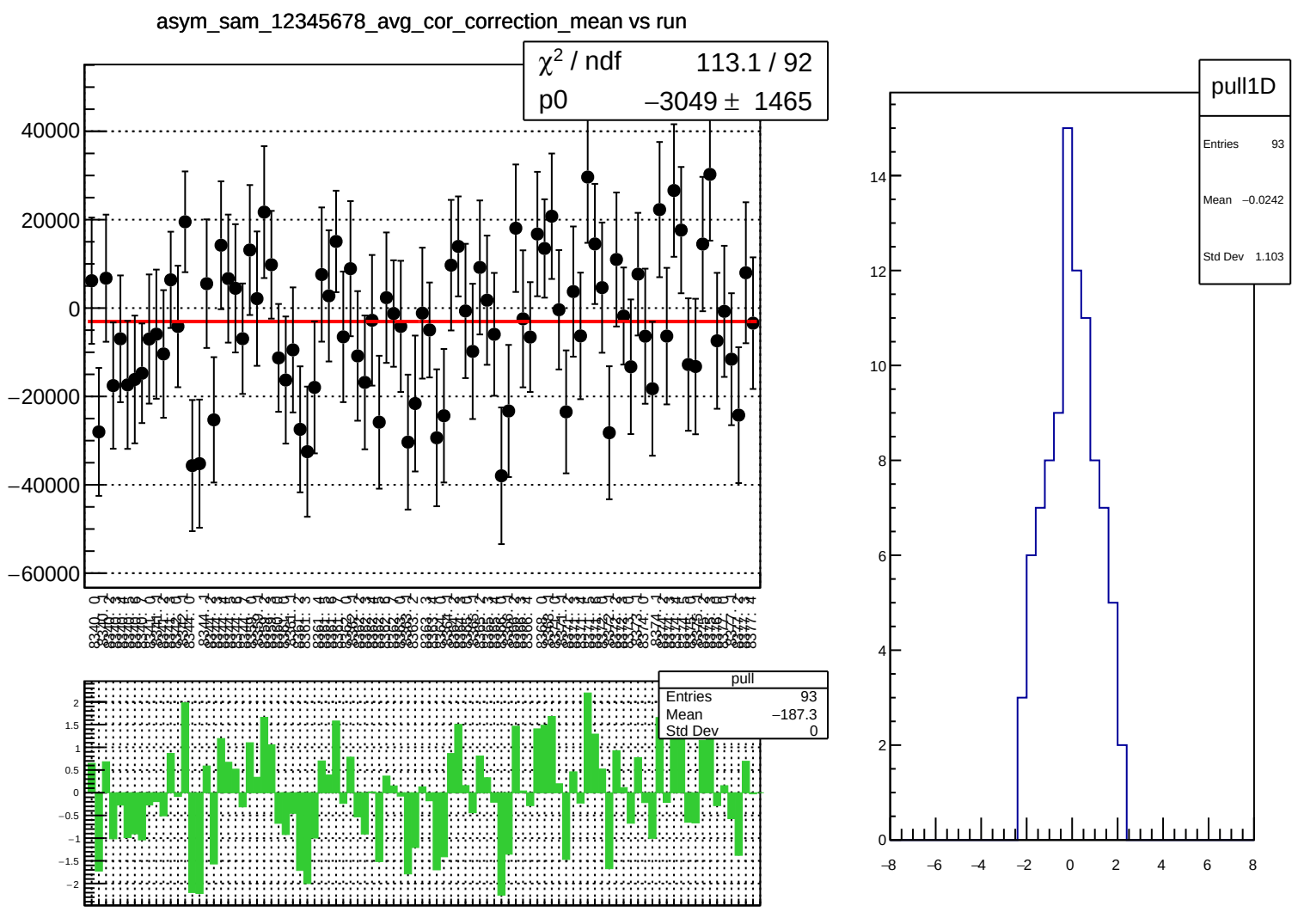

pull1D
Entries 93
Mean −0.0242
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

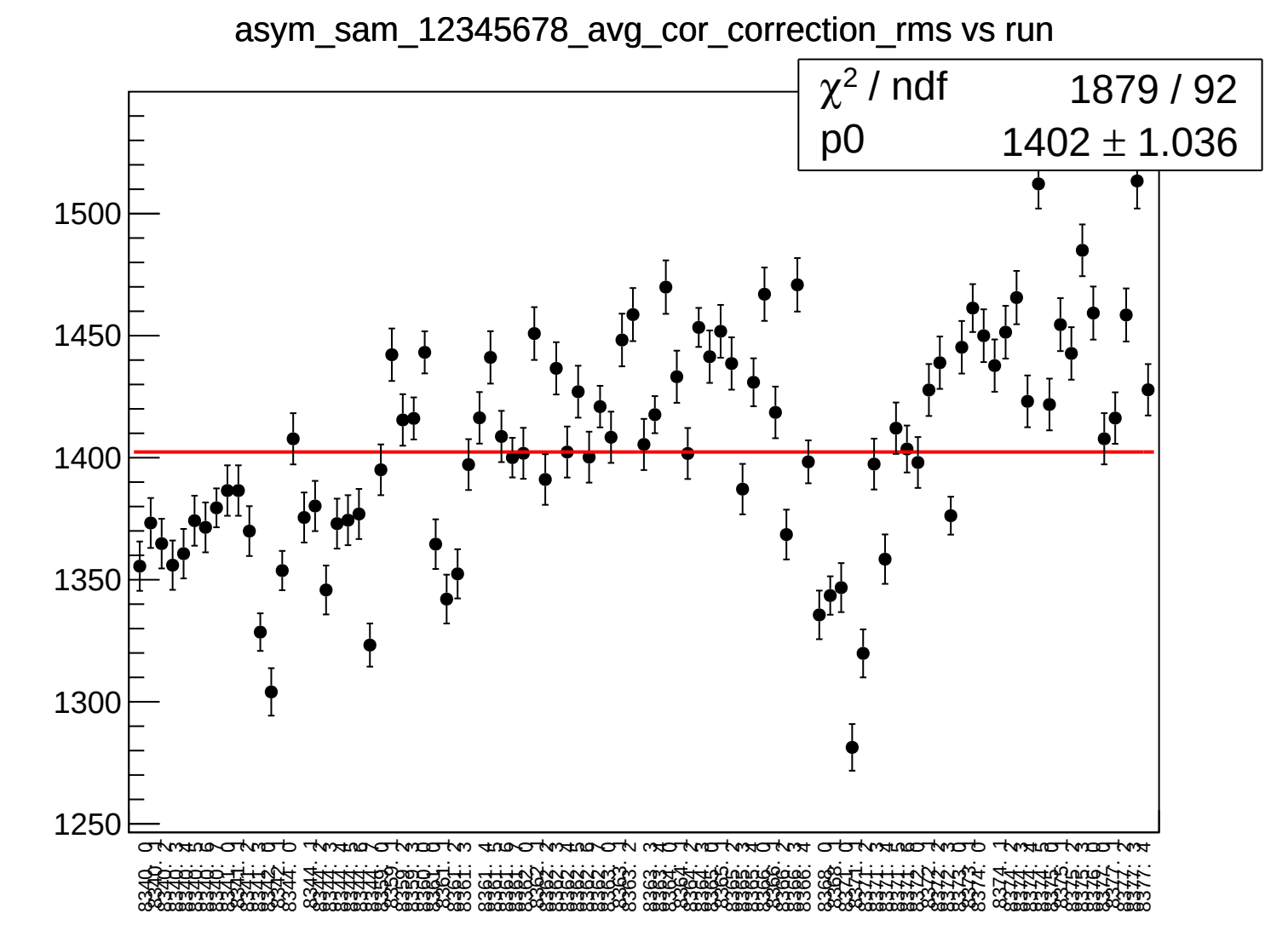

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1879 / 92
p0 1402 ± 1.036
1500
1450
1400
1350
1300
1250

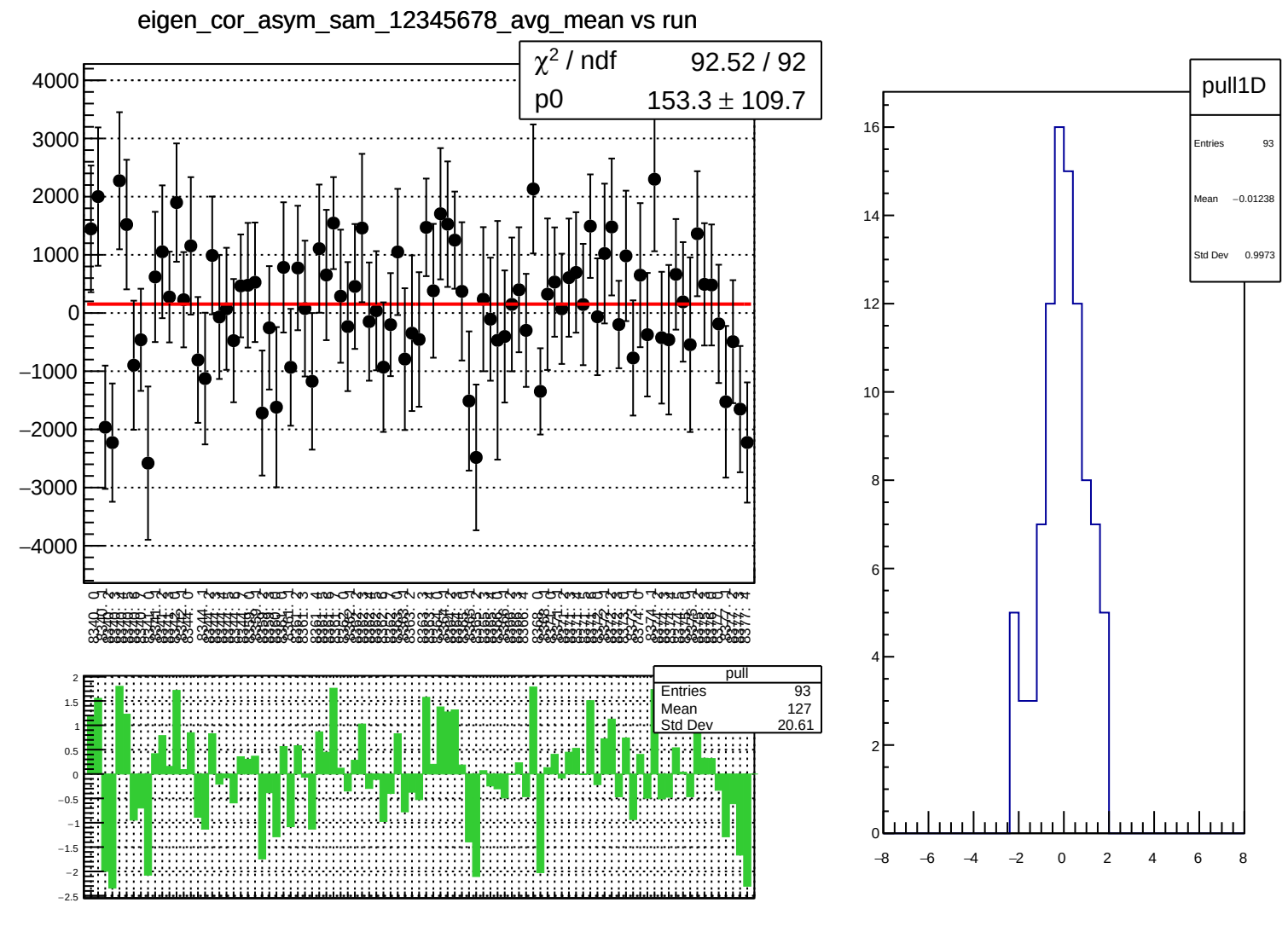

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.52 / 92
p0 153.3 ± 109.7
pull
Entries 93
Mean 127
Std Dev 20.61

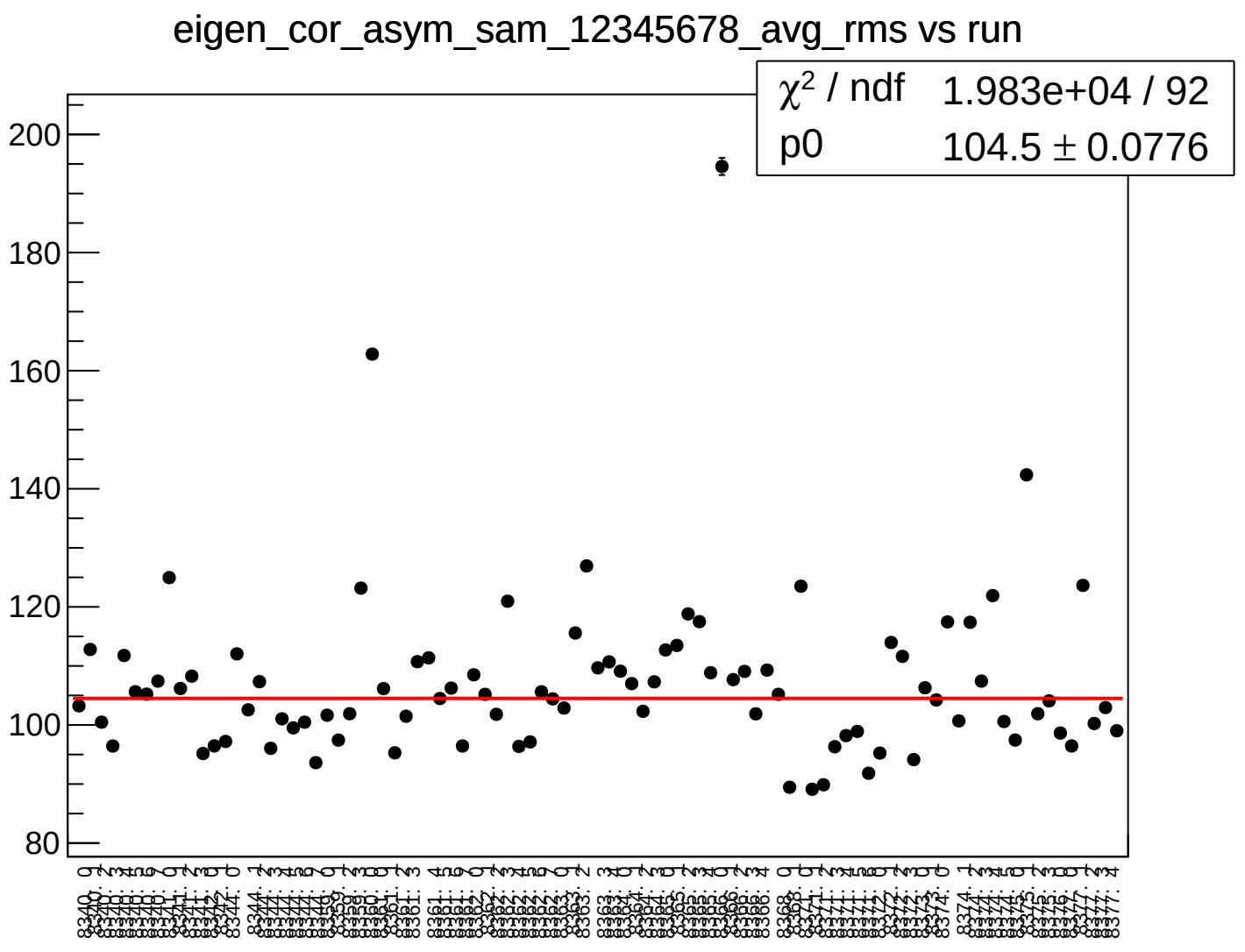

pull1D
Entries 93
Mean −0.01238
Std Dev 0.9973

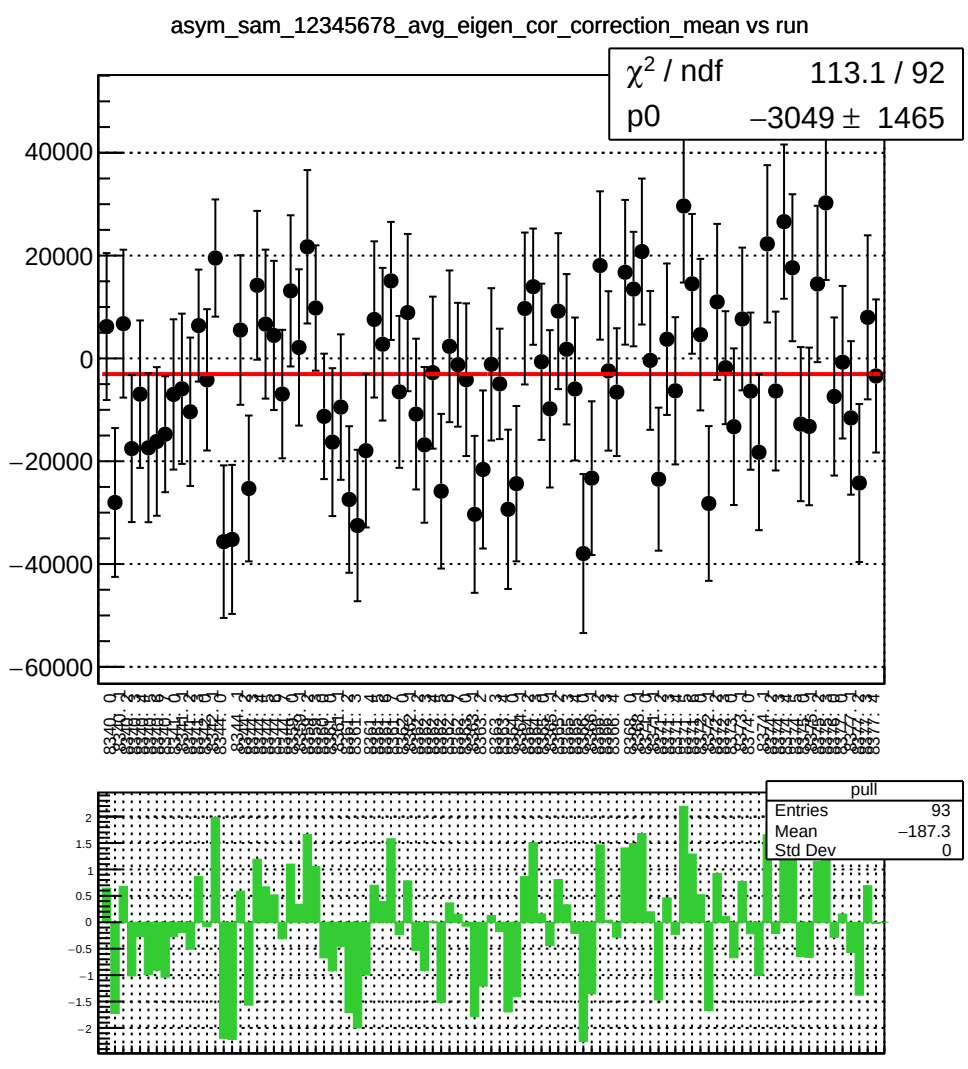

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.983e+04 / 92
p0 104.5 ± 0.0776
200
180
160
140
120
100
80

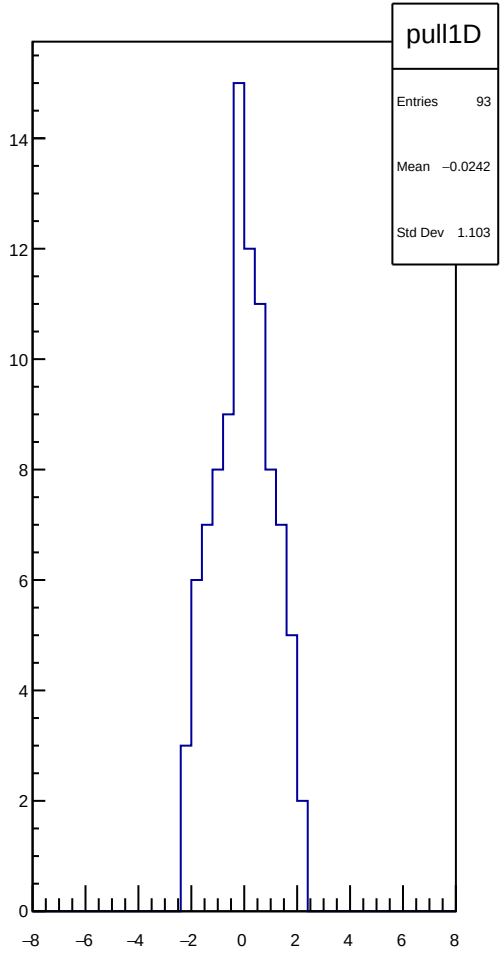

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 113.1 / 92
p0 −3049 ± 1465
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −187.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.0242
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

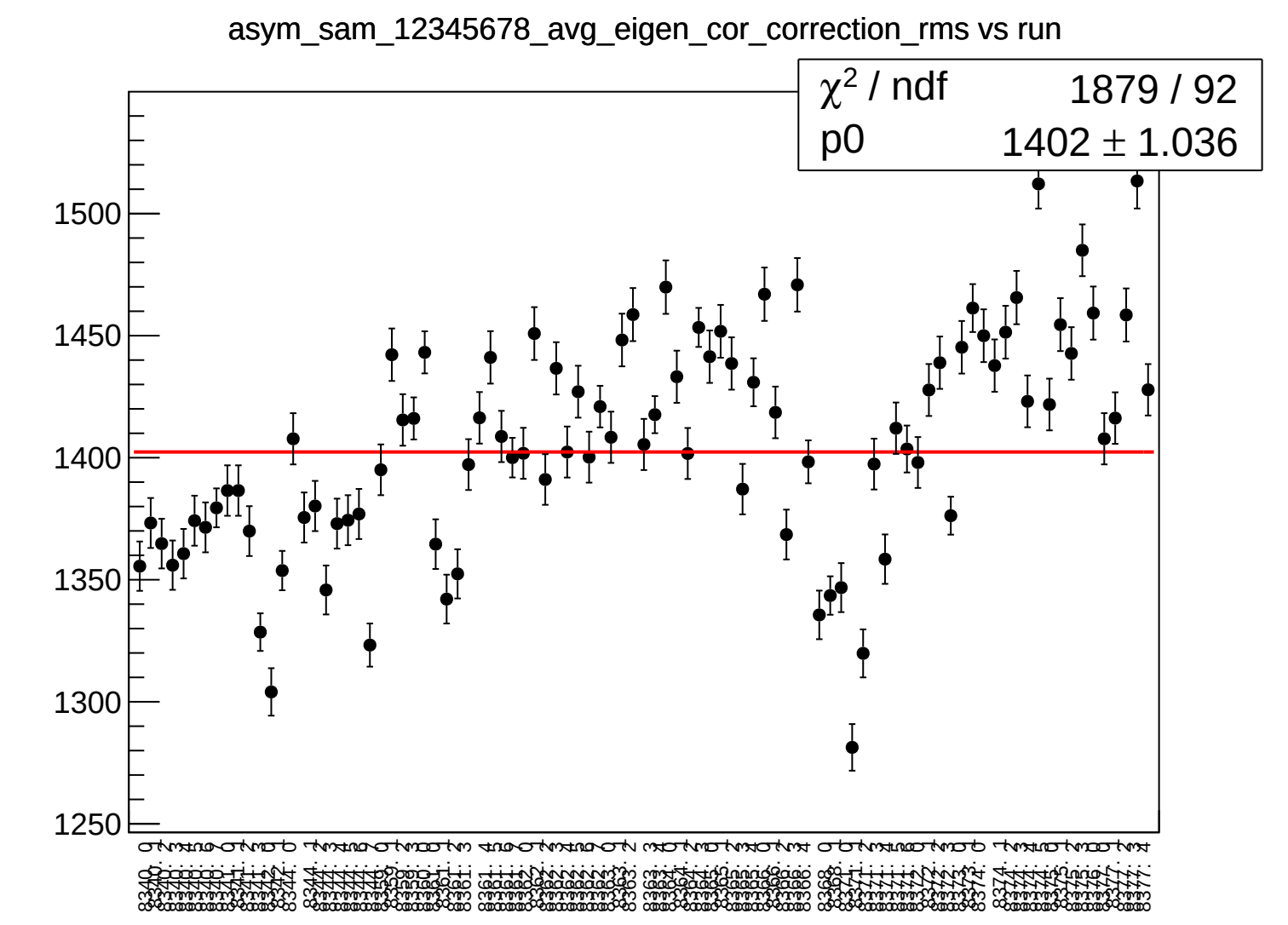

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1879 / 92
p0 1402 ± 1.036
1500
1450
1400
1350
1300
1250

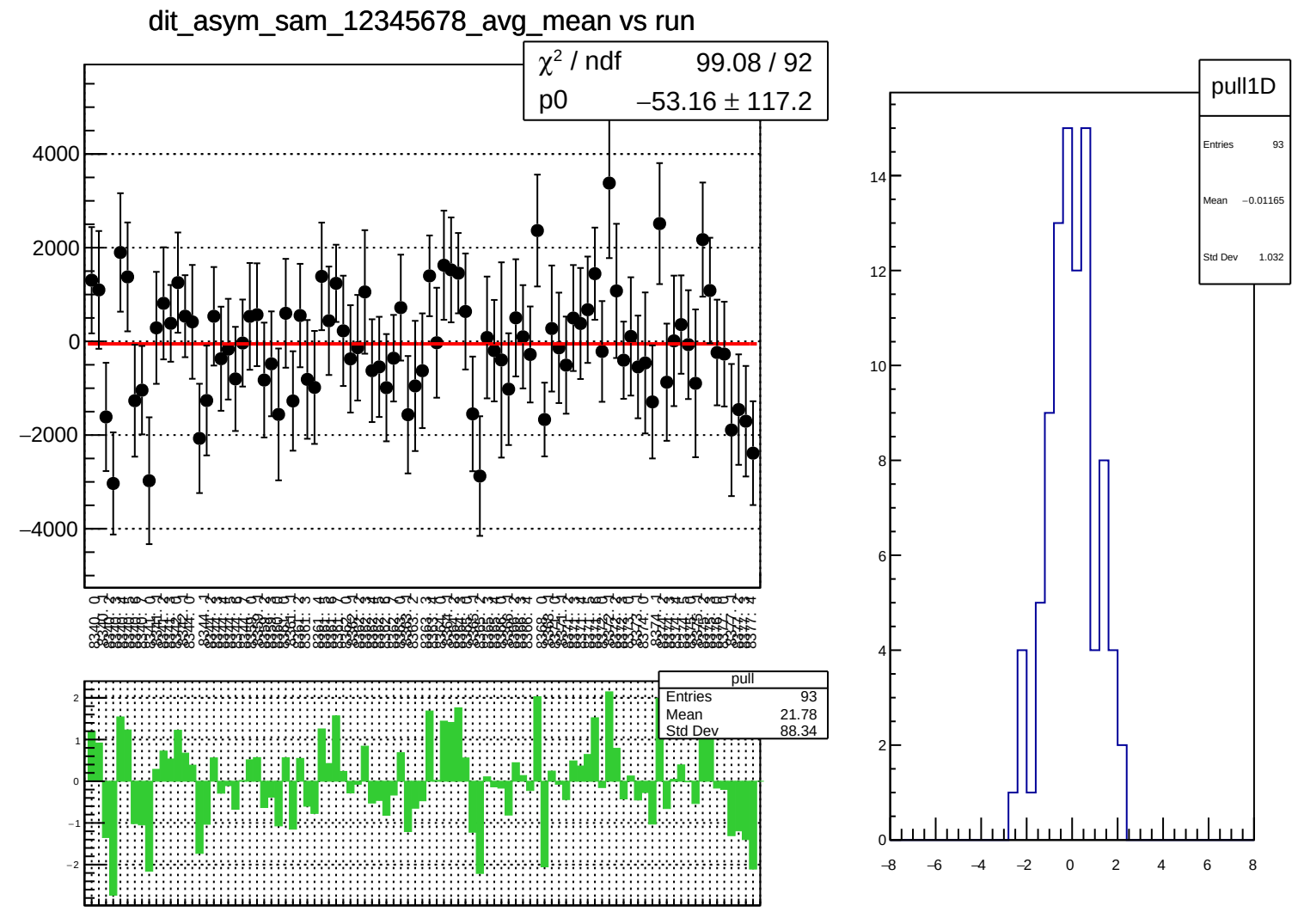

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 92.52 / 92
p0 153.3 ± 109.7
pull
Entries 93
Mean 127
Std Dev 20.61
pull1D
Entries 93
Mean −0.01238
Std Dev 0.9973

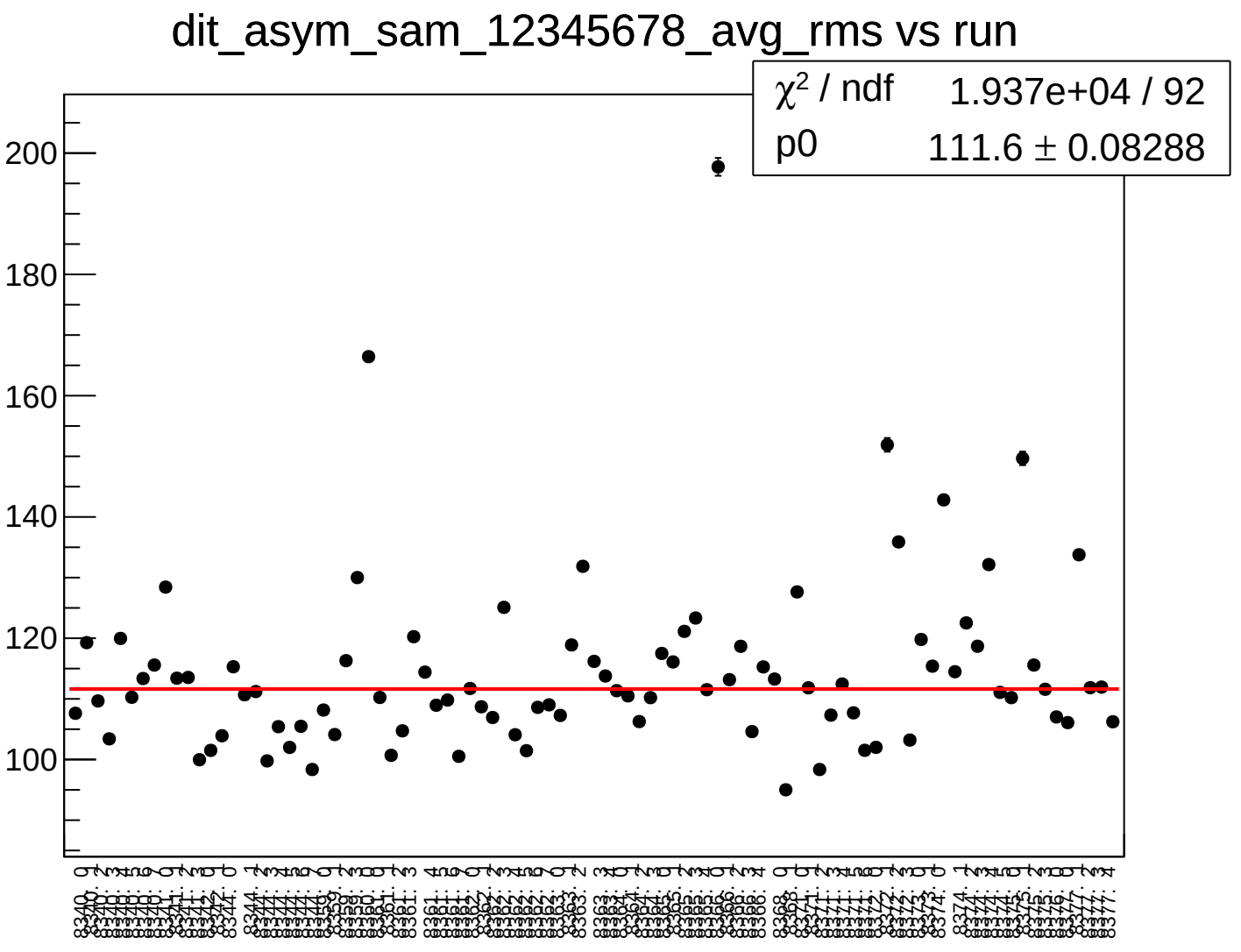

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.983e+04 / 92
p0 104.5 ± 0.0776
200
180
160
140
120
100
80

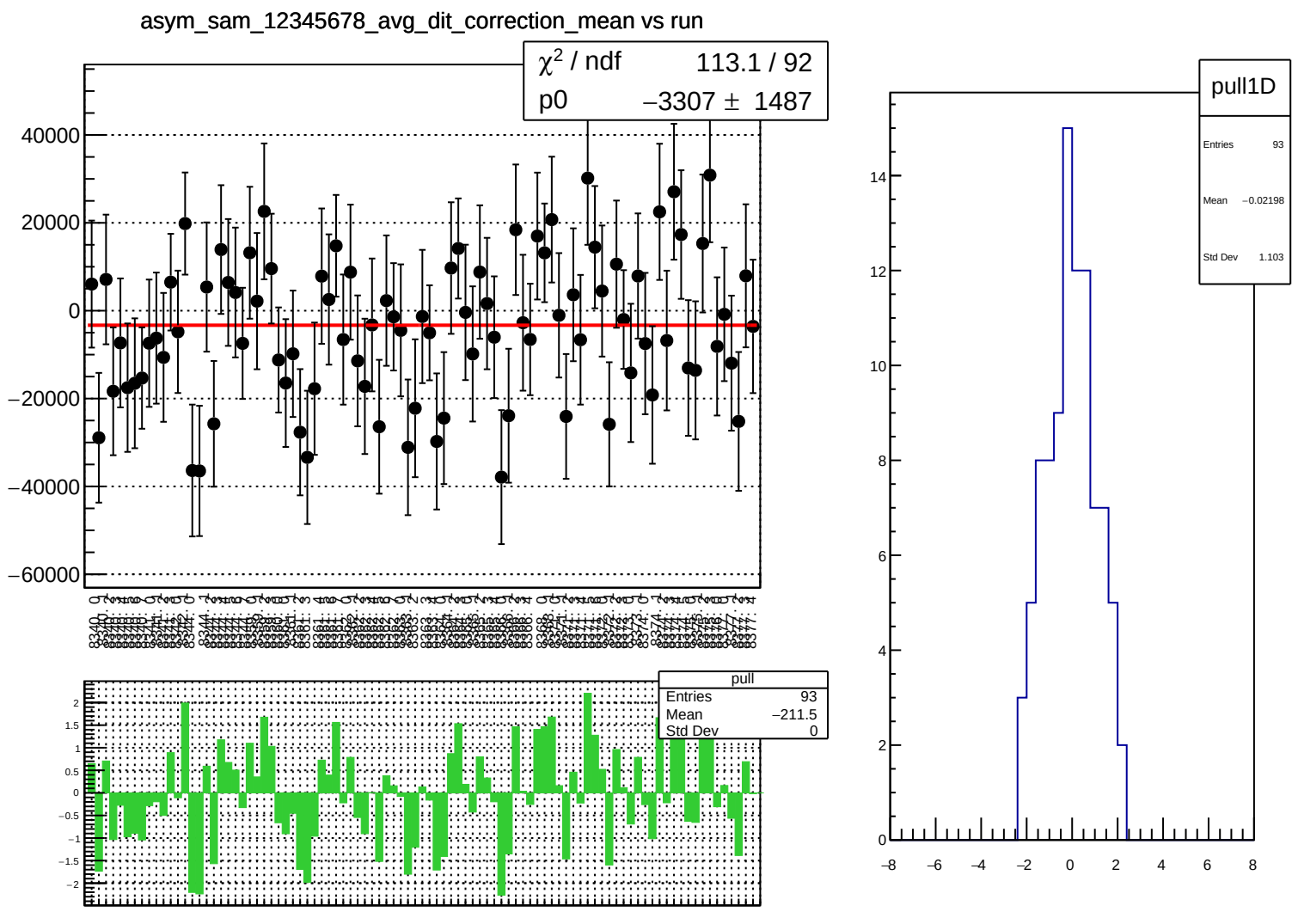

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.1 / 92
p0 −3049 ± 1465
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −187.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

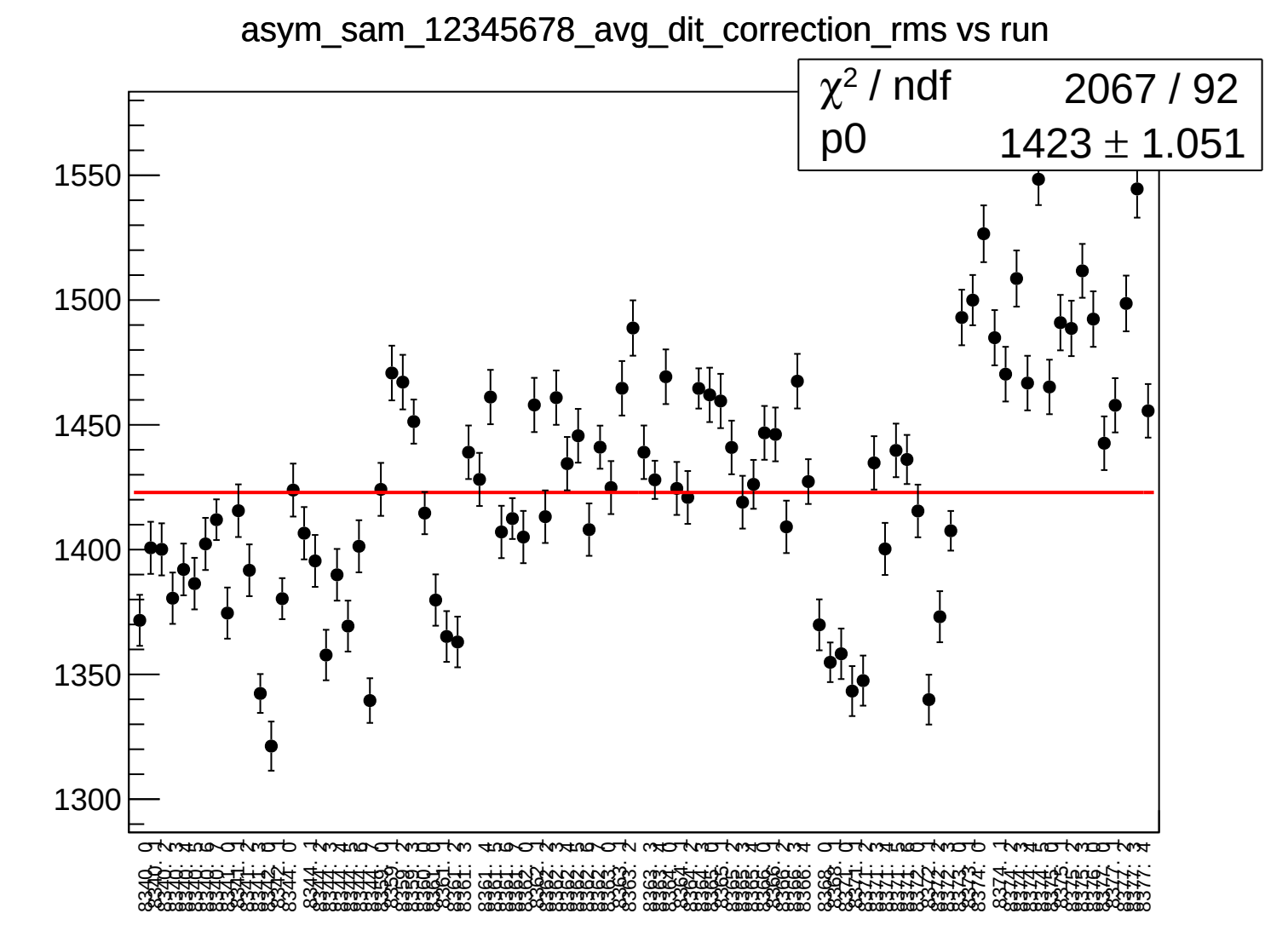

pull1D
Entries 93
Mean −0.0242
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

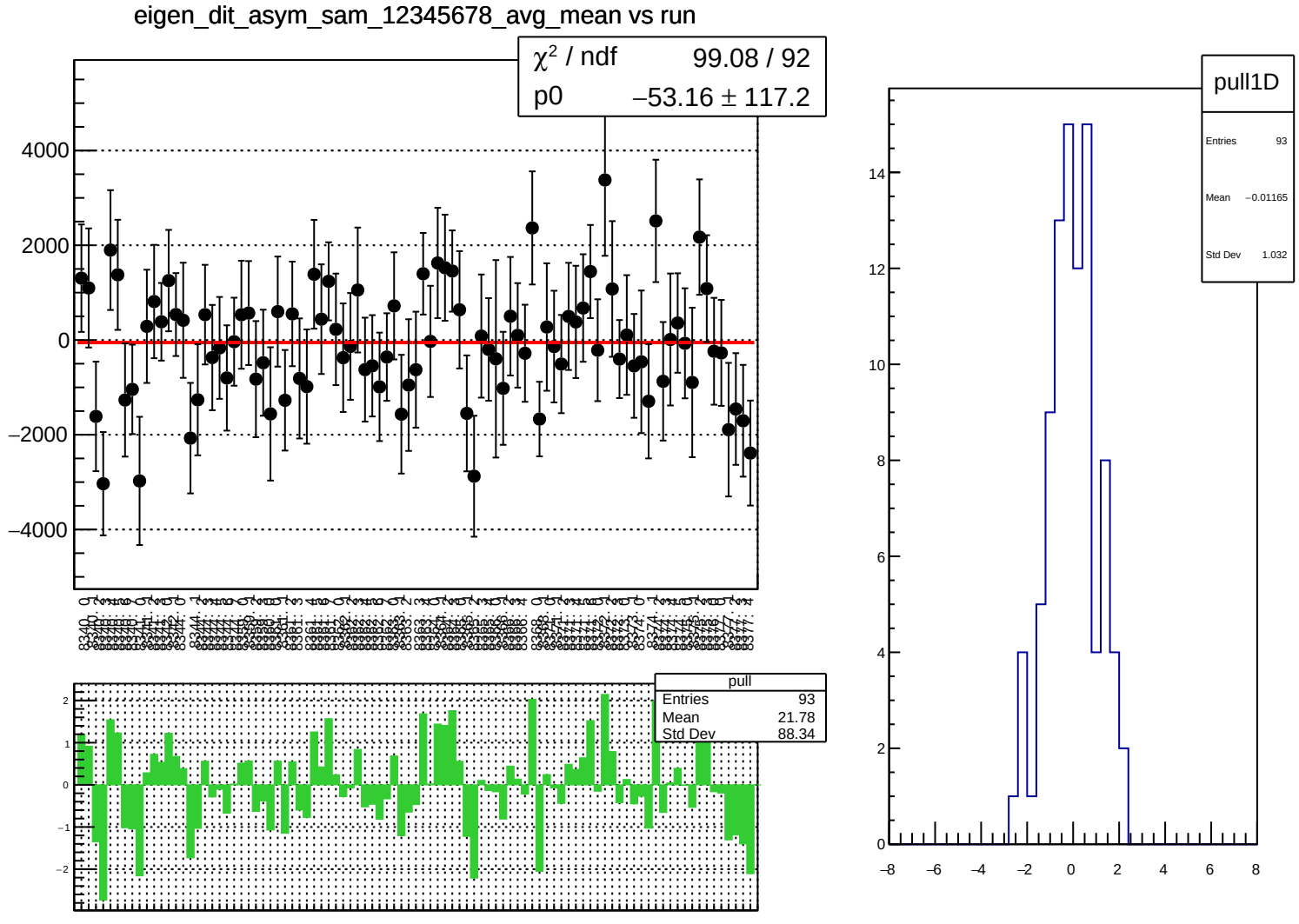

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1879 / 92
p0 1402 ± 1.036
1500
1450
1400
1350
1300
1250

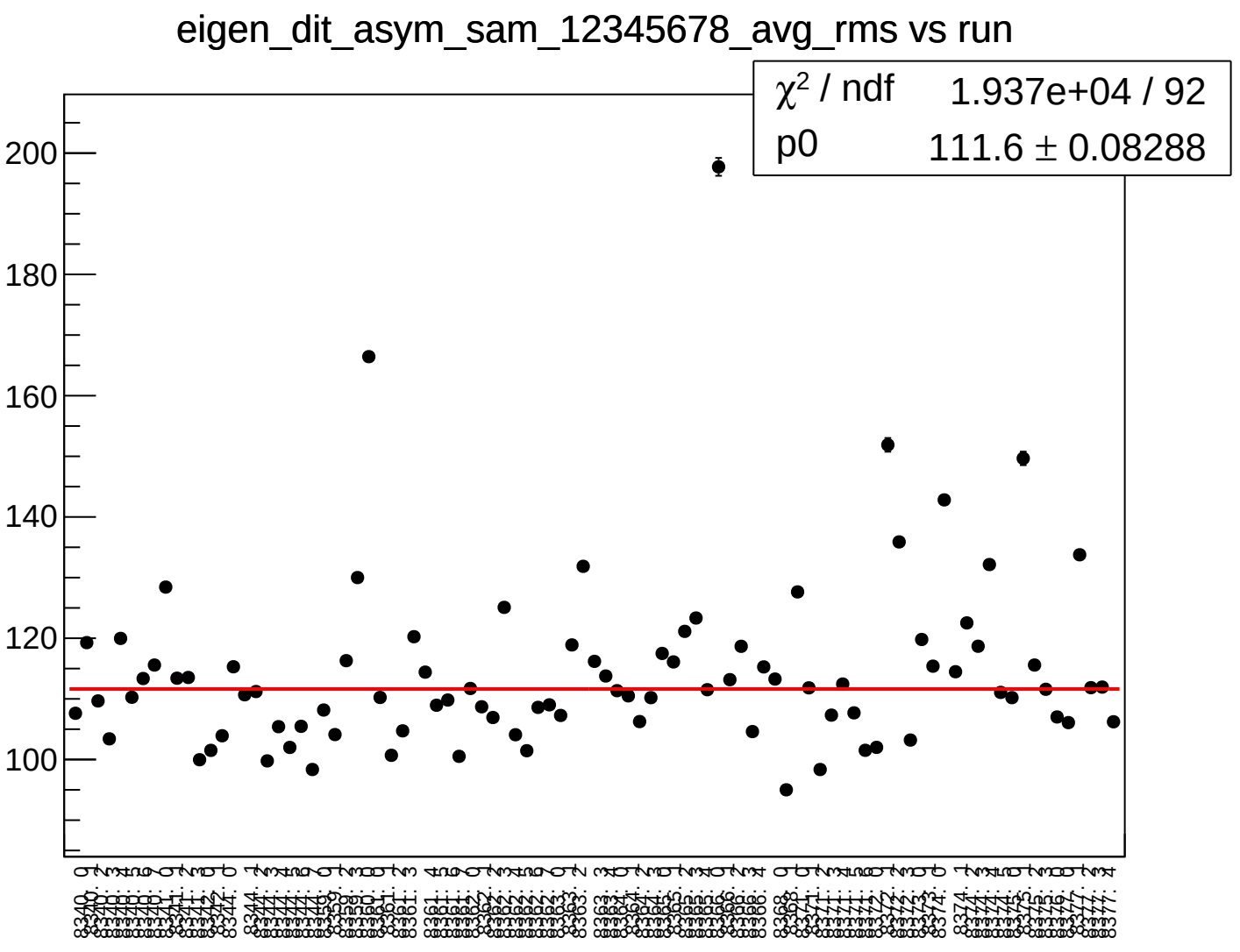

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.08 / 92
p0 −53.16 ± 117.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 21.78
Std Dev 88.34
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01165
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

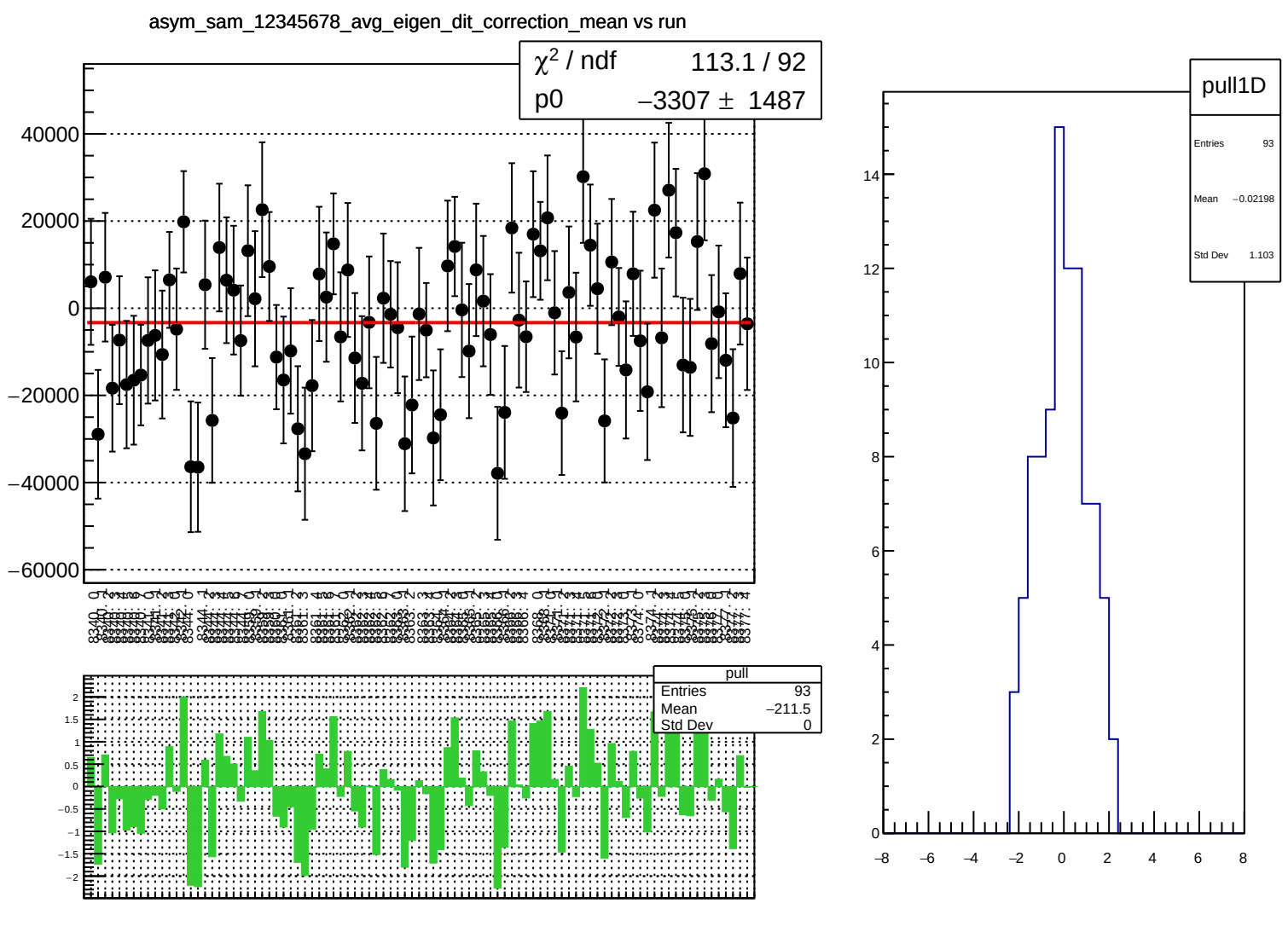

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.937e+04 / 92
p0 111.6 ± 0.08288
200
180
160
140
120
100

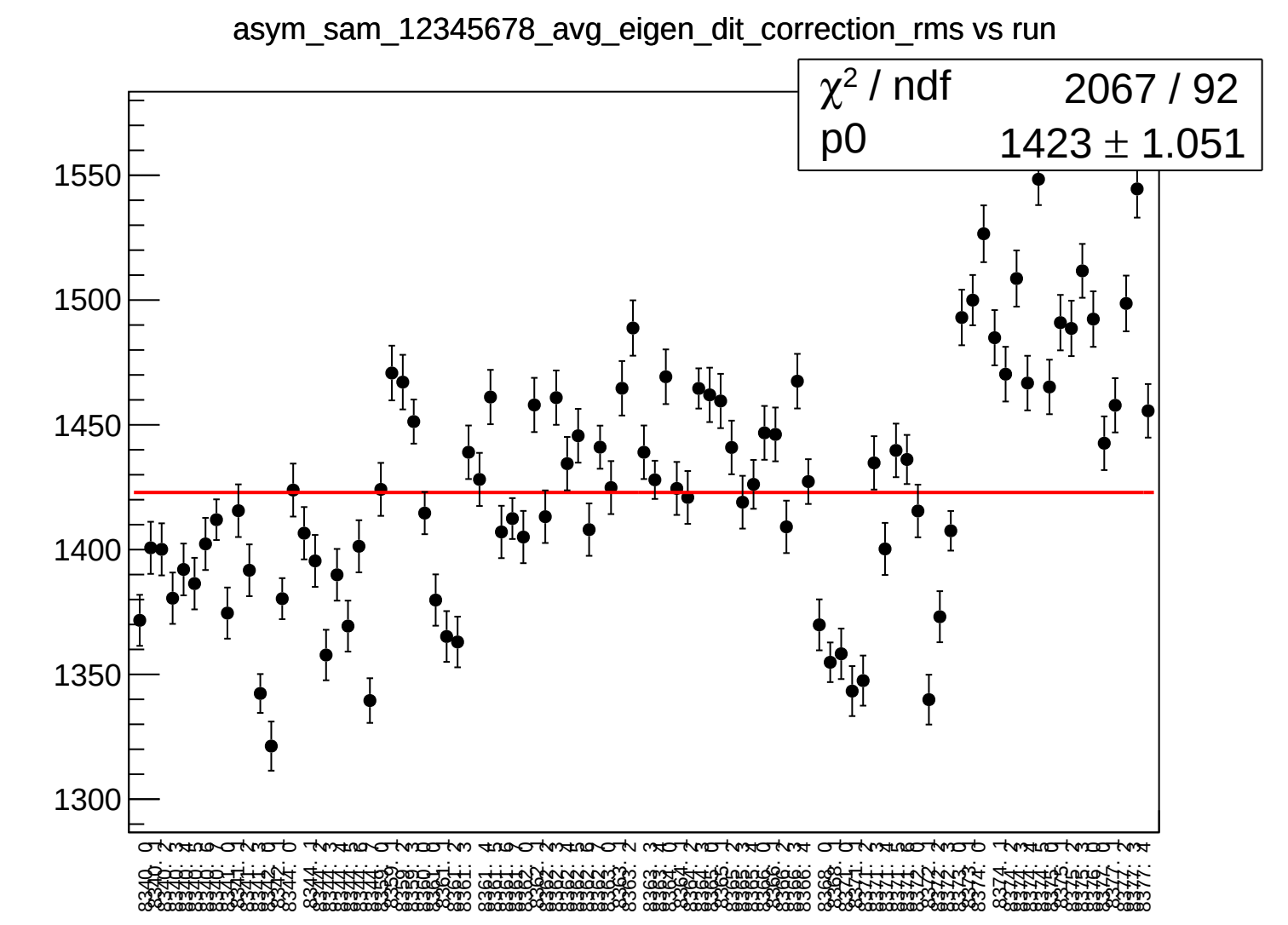

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 113.1 / 92
p0 −3307 ± 1487
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −211.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02198
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

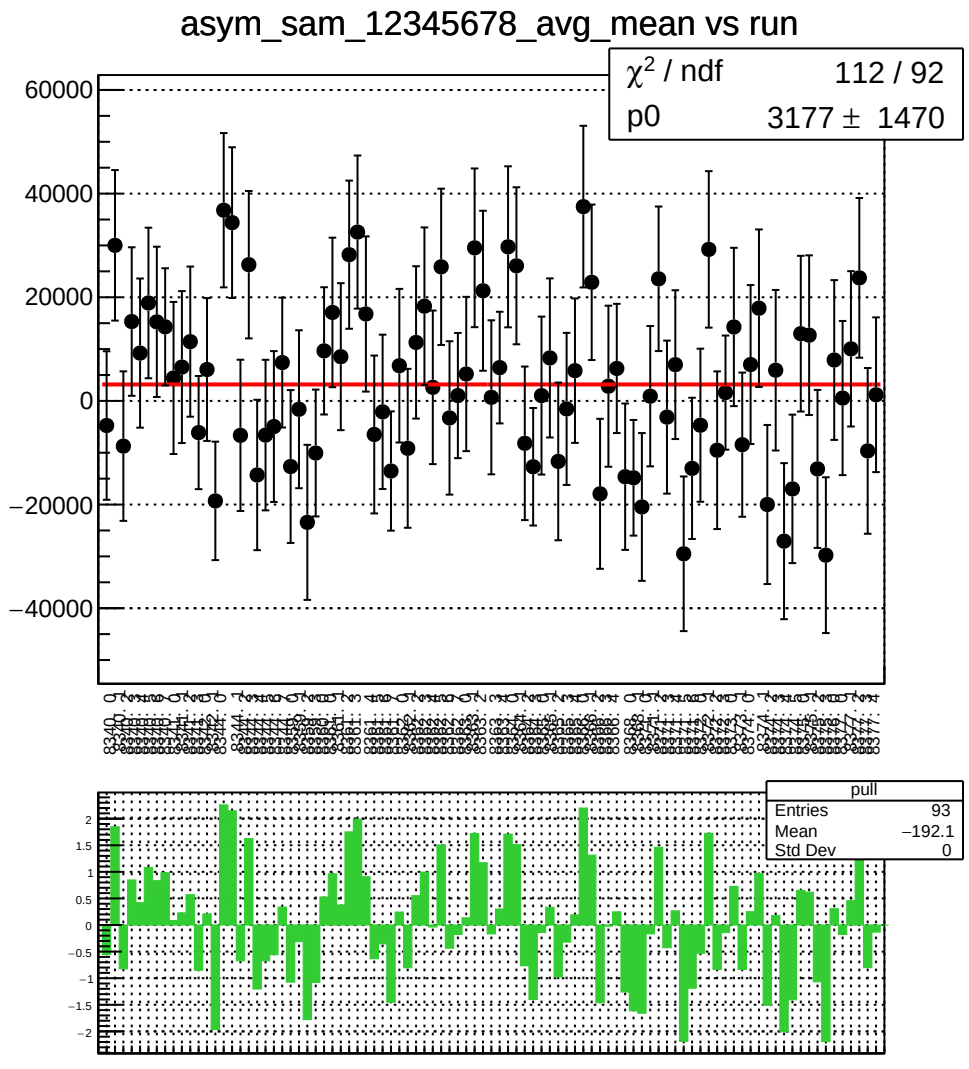

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2067 / 92
p0 1423 ± 1.051
1550
1500
1450
1400
1350
1300

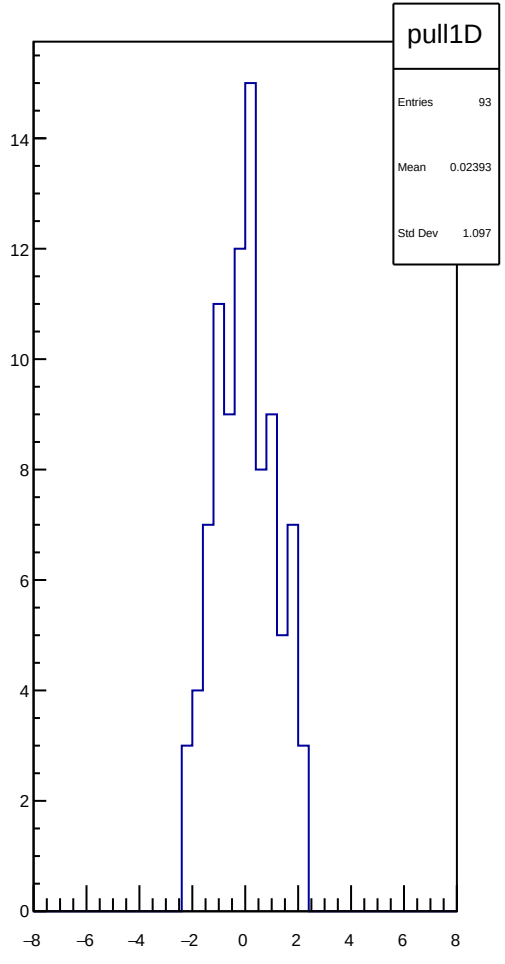

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.08 / 92
p0 −53.16 ± 117.2
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 21.78
Std Dev 88.34
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01165
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

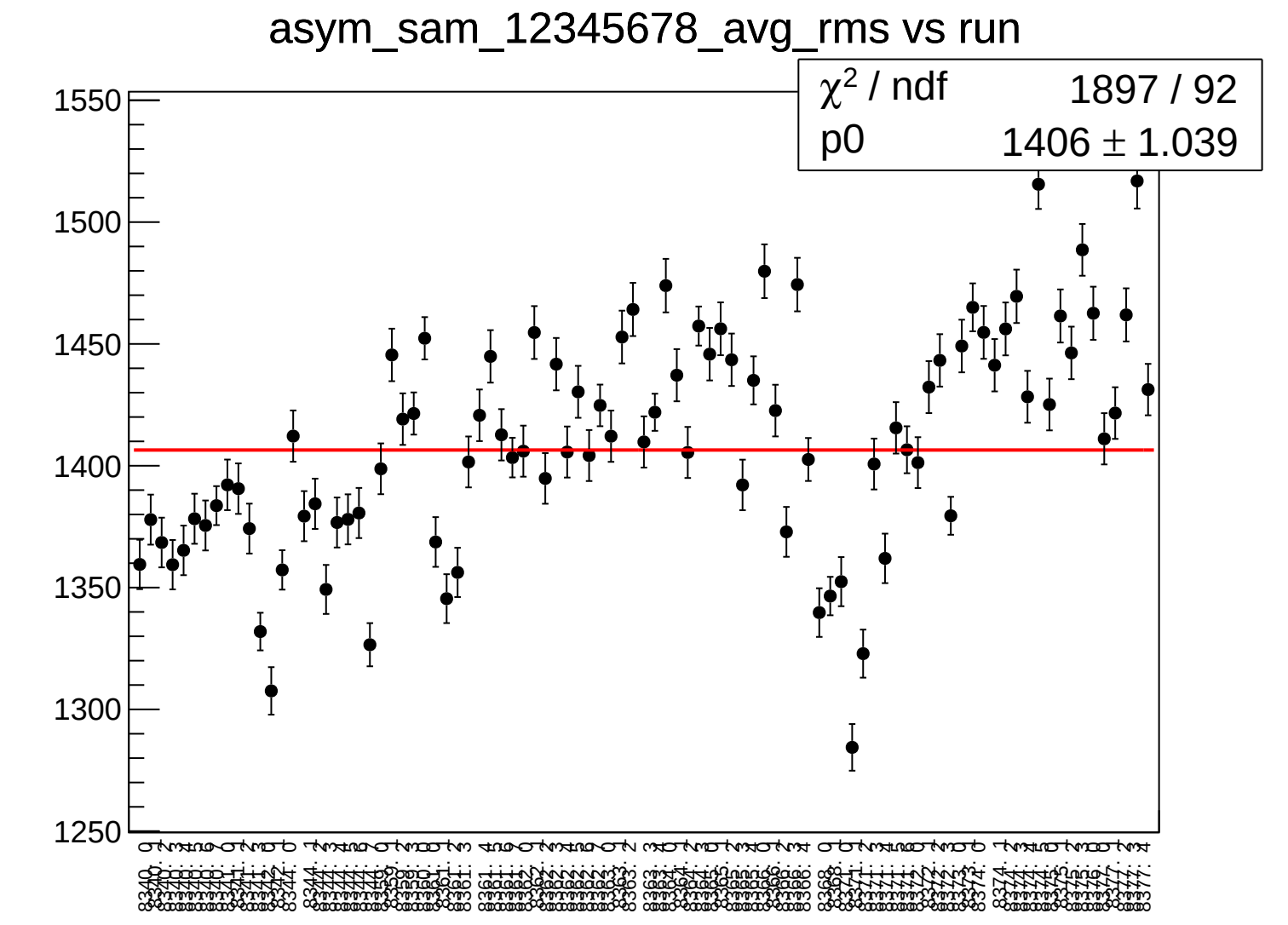

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.937e+04 / 92
p0 111.6 ± 0.08288
200
180
160
140
120
100

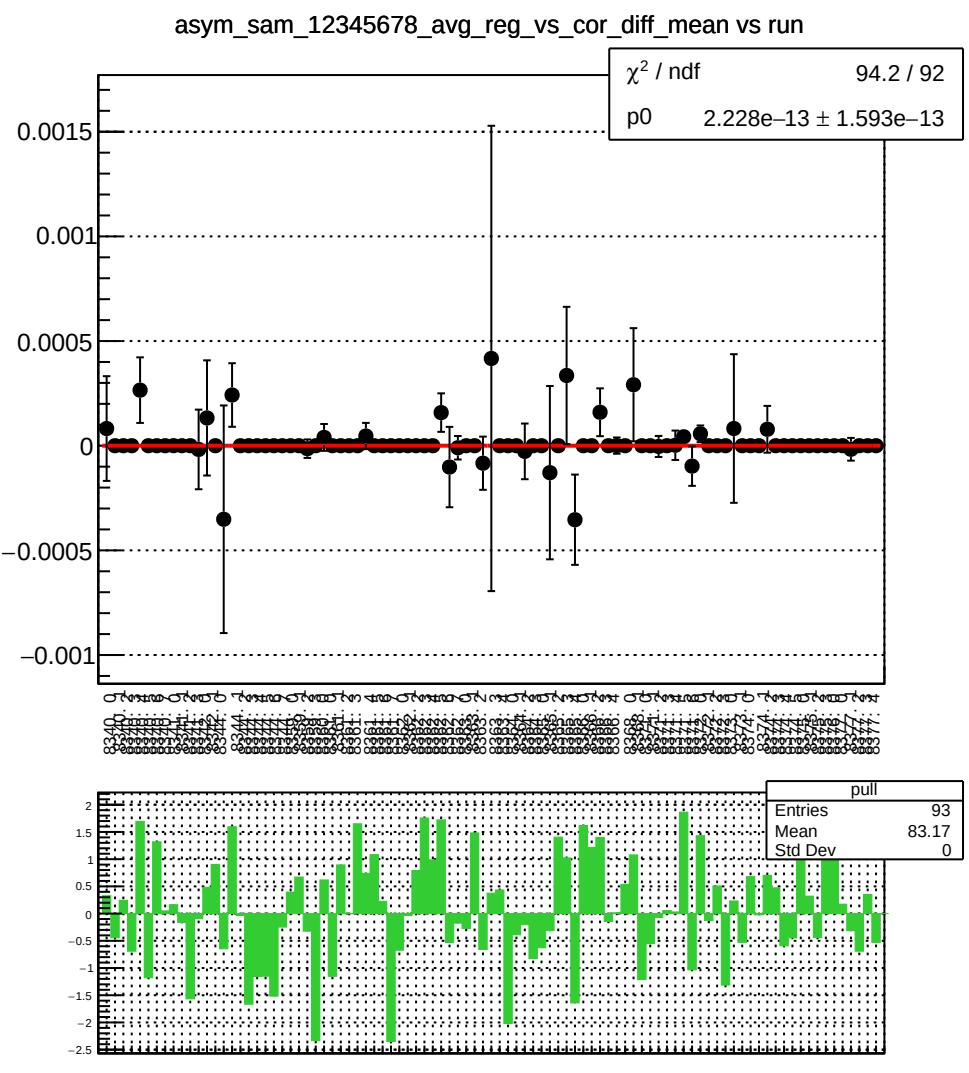

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.1 / 92
p0 −3307 ± 1487
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −211.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.02198
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

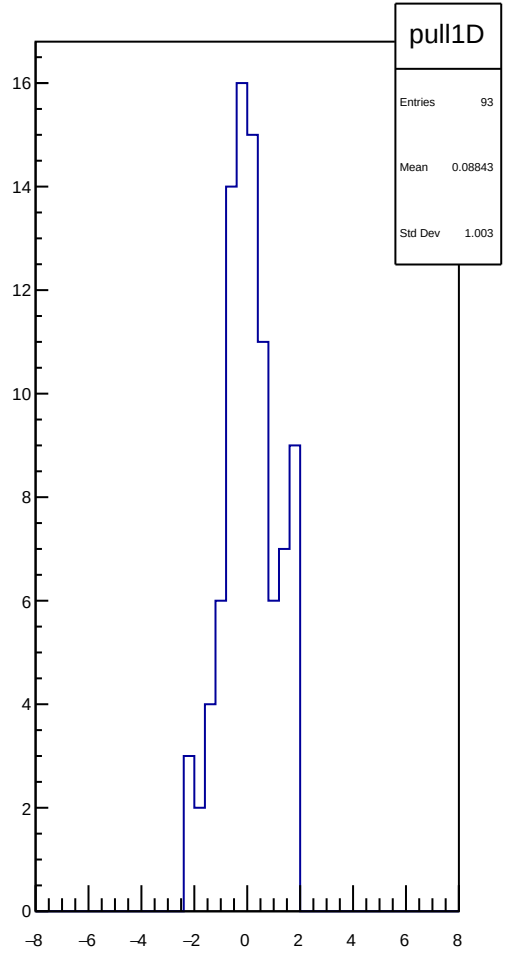

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2067 / 92
p0 1423 ± 1.051
1550
1500
1450
1400
1350
1300

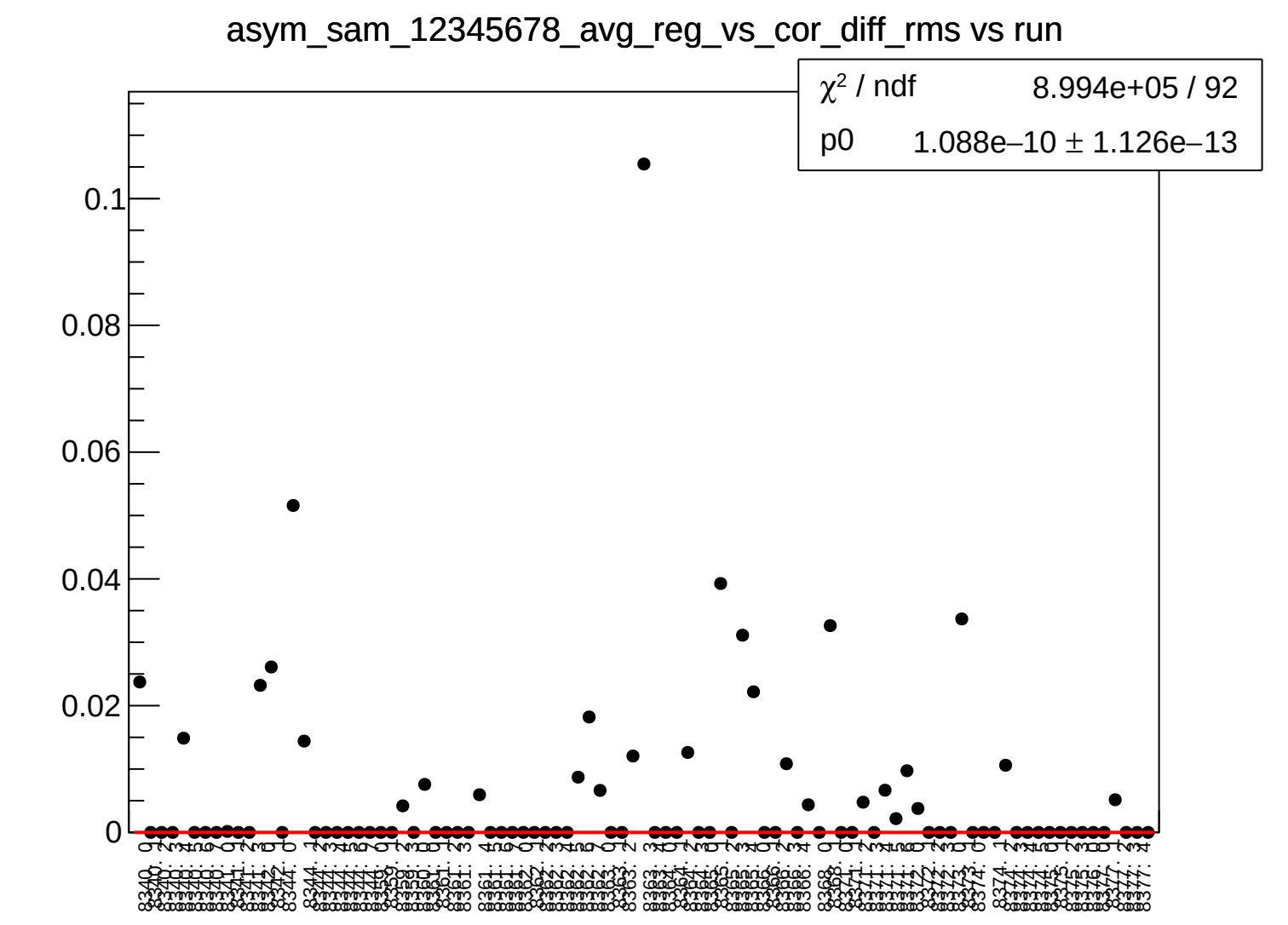

asym_sam_12345678_avg_mean vs run
χ² / ndf 112 / 92
p0 3177 ± 1470
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −192.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

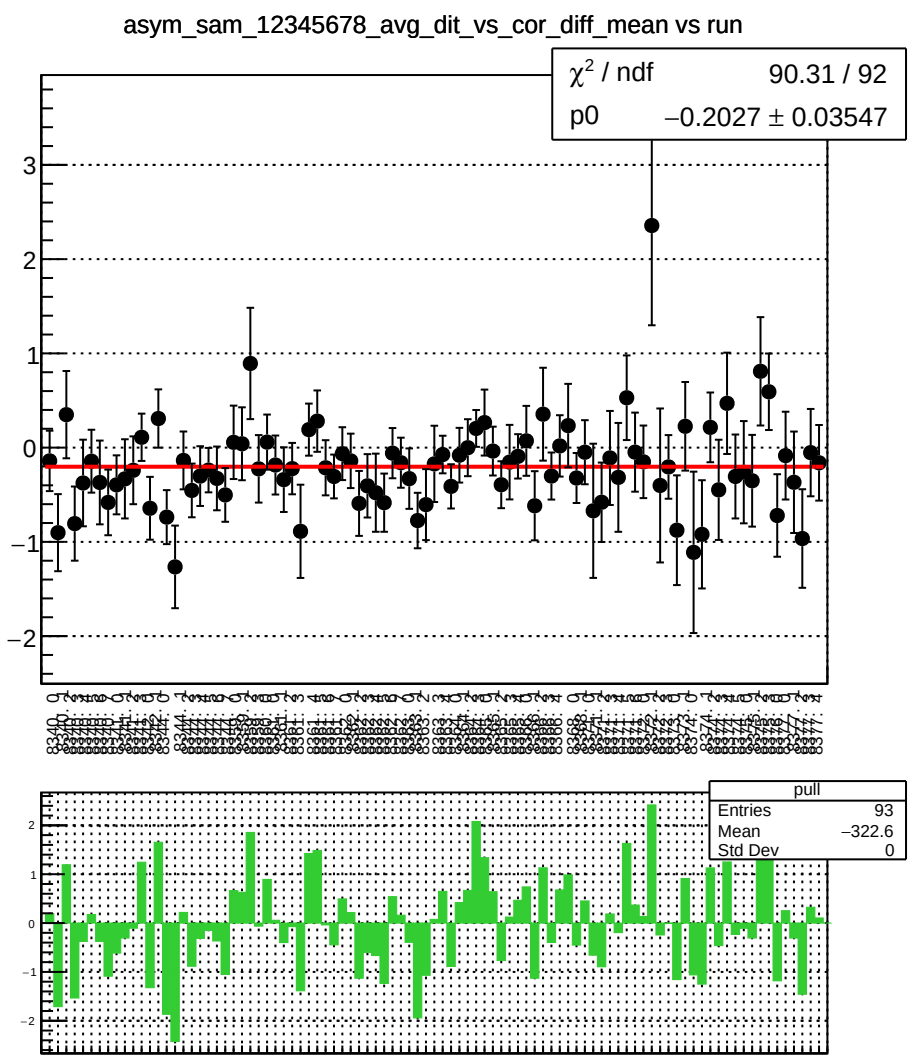

pull1D
Entries 93
Mean 0.02393
Std Dev 1.097
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

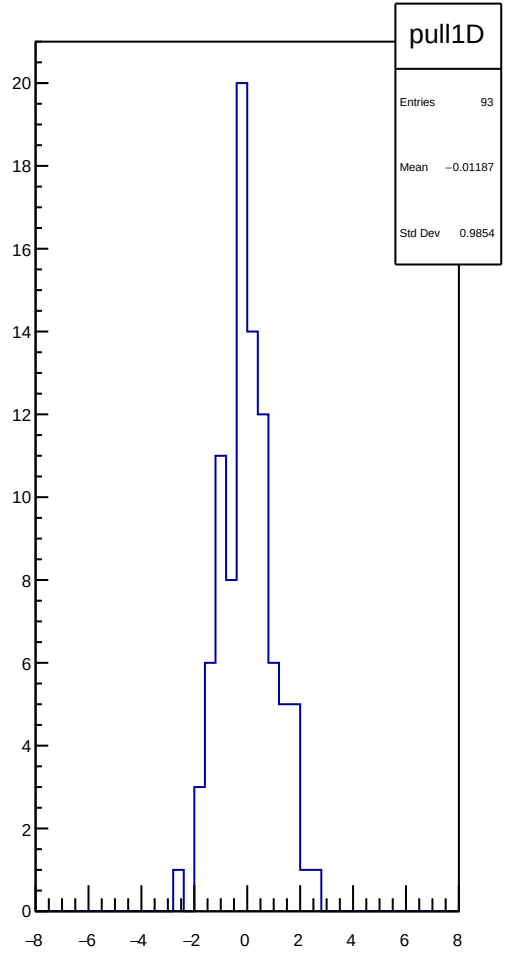

asym_sam_12345678_avg_rms vs run
χ² / ndf 1897 / 92
p0 1406 ± 1.039
1550
1500
1450
1400
1350
1300
1250

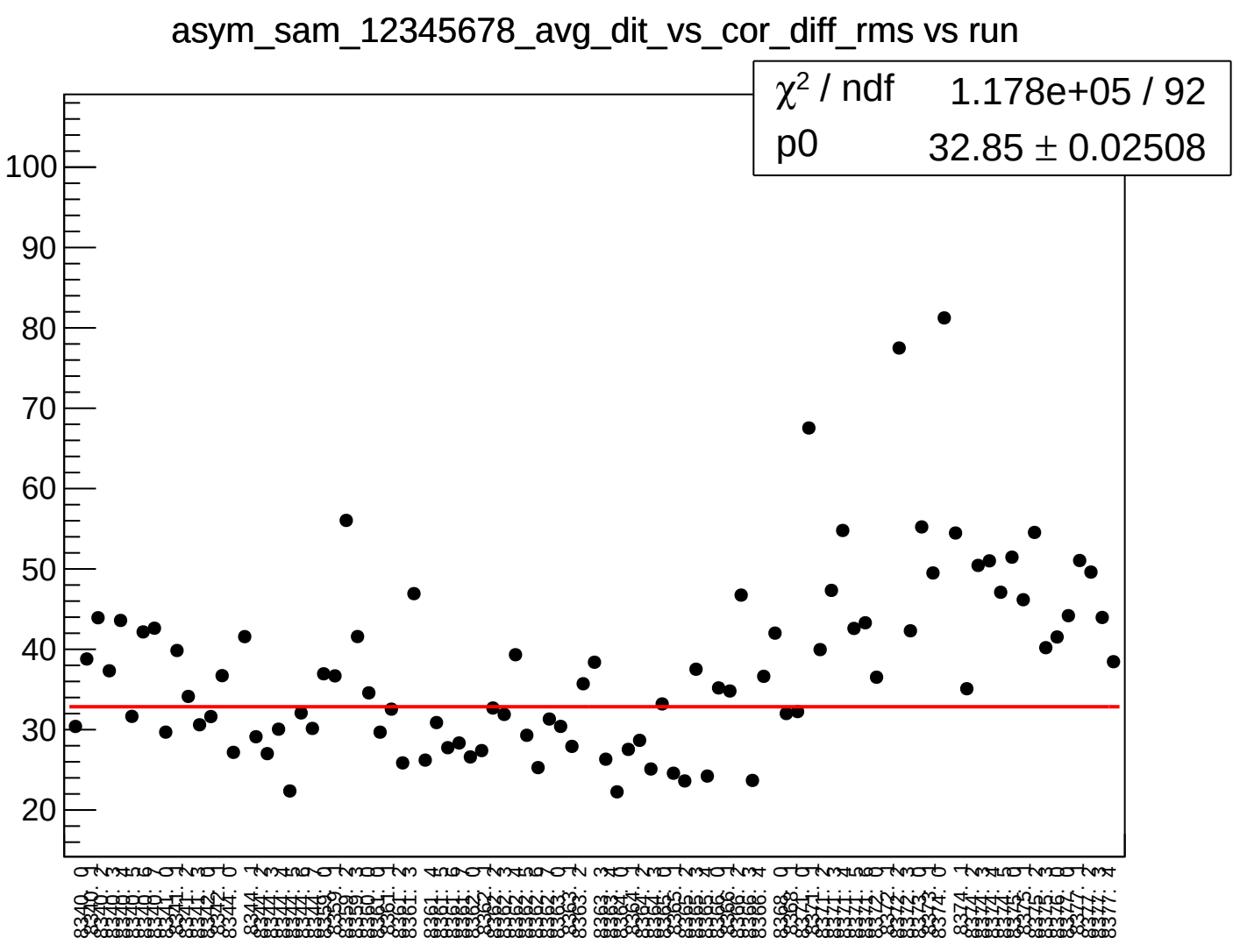

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.2 / 92
p0 2.228e−13 ± 1.593e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 93
Mean 83.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

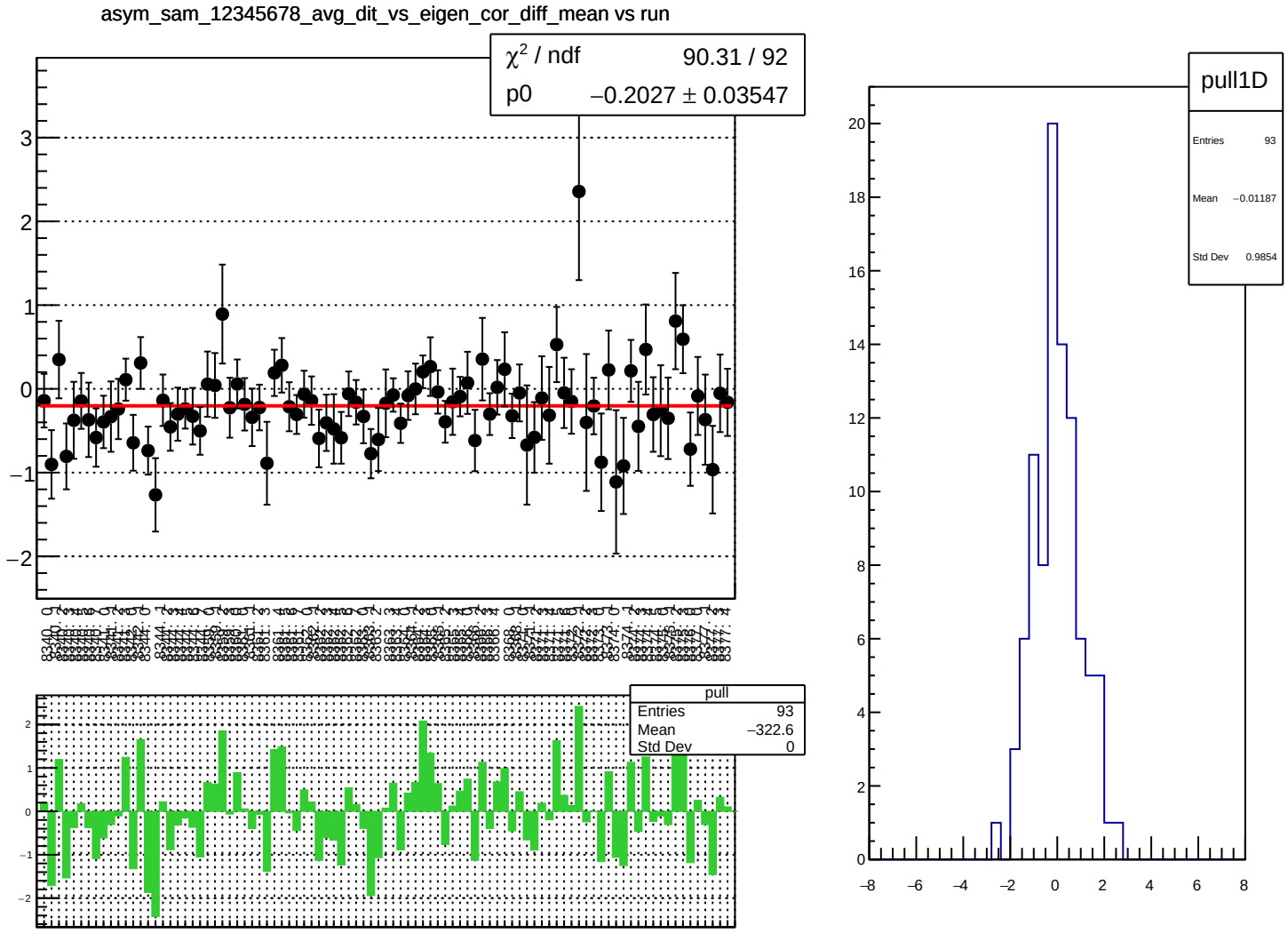

pull1D
Entries 93
Mean 0.08843
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

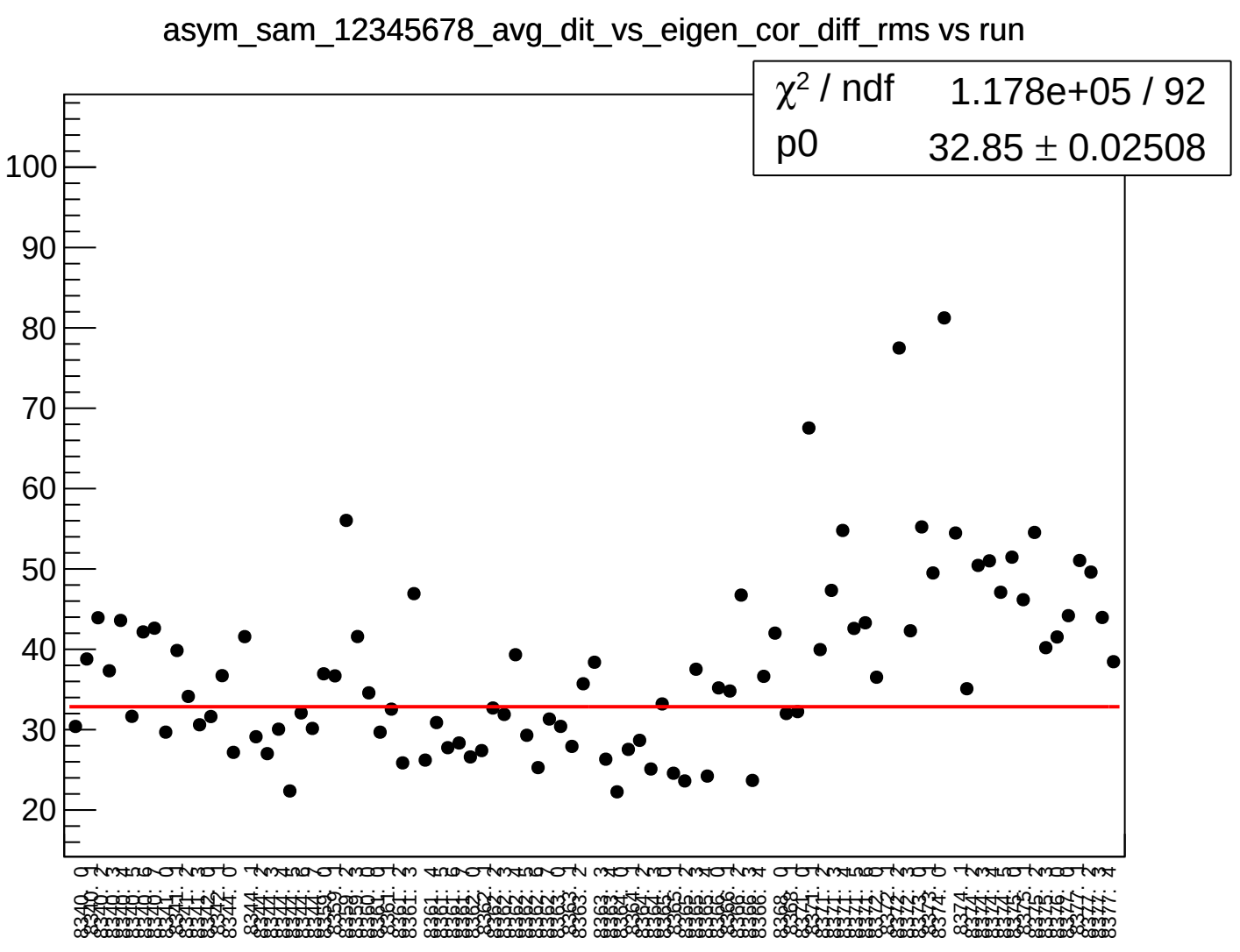

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 8.994e+05 / 92
p0 1.088e−10 ± 1.126e−13
0.1
0.08
0.06
0.04
0.02
0

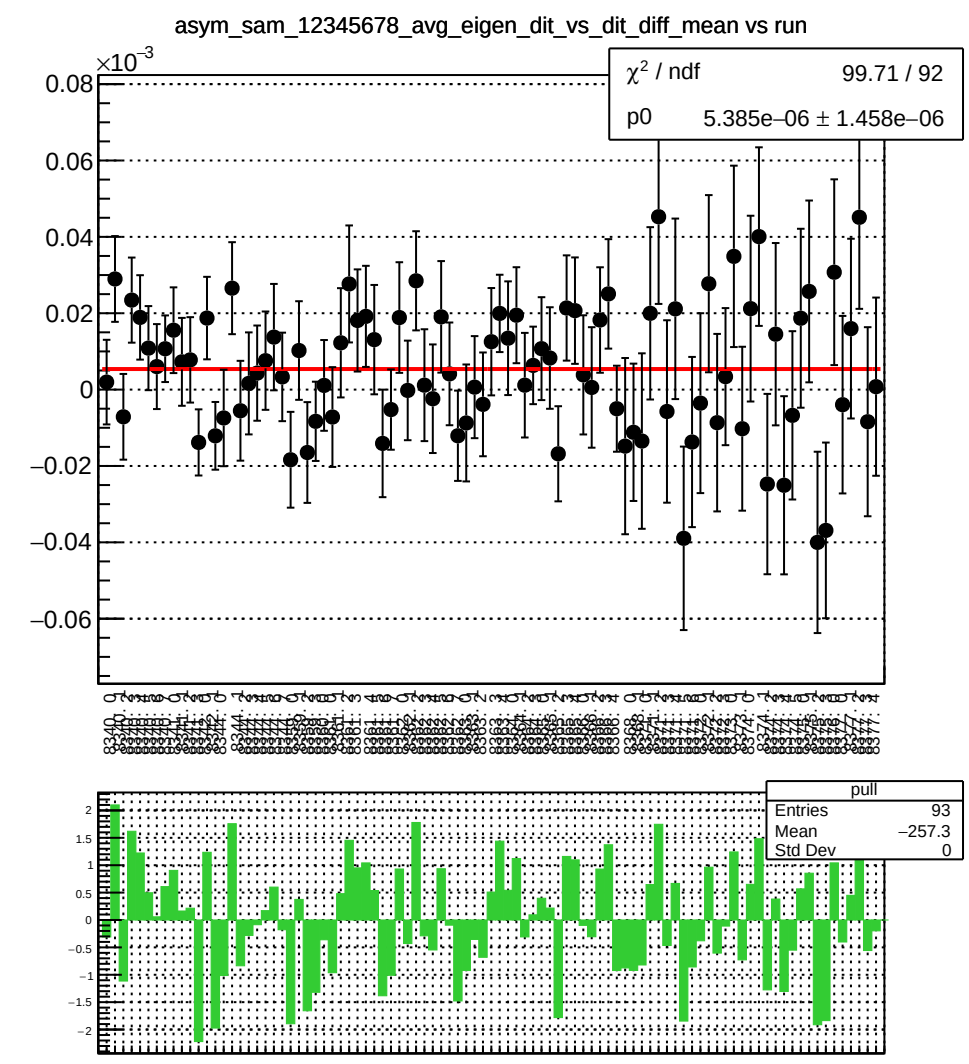

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.31 / 92
p0 −0.2027 ± 0.03547
pull
Entries 93
Mean −322.6
Std Dev 0

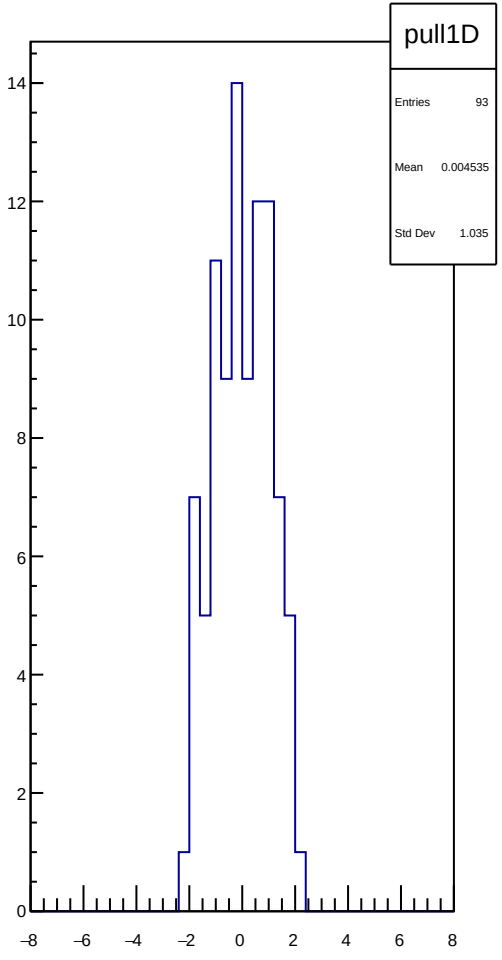

pull1D
Entries 93
Mean −0.01187
Std Dev 0.9854

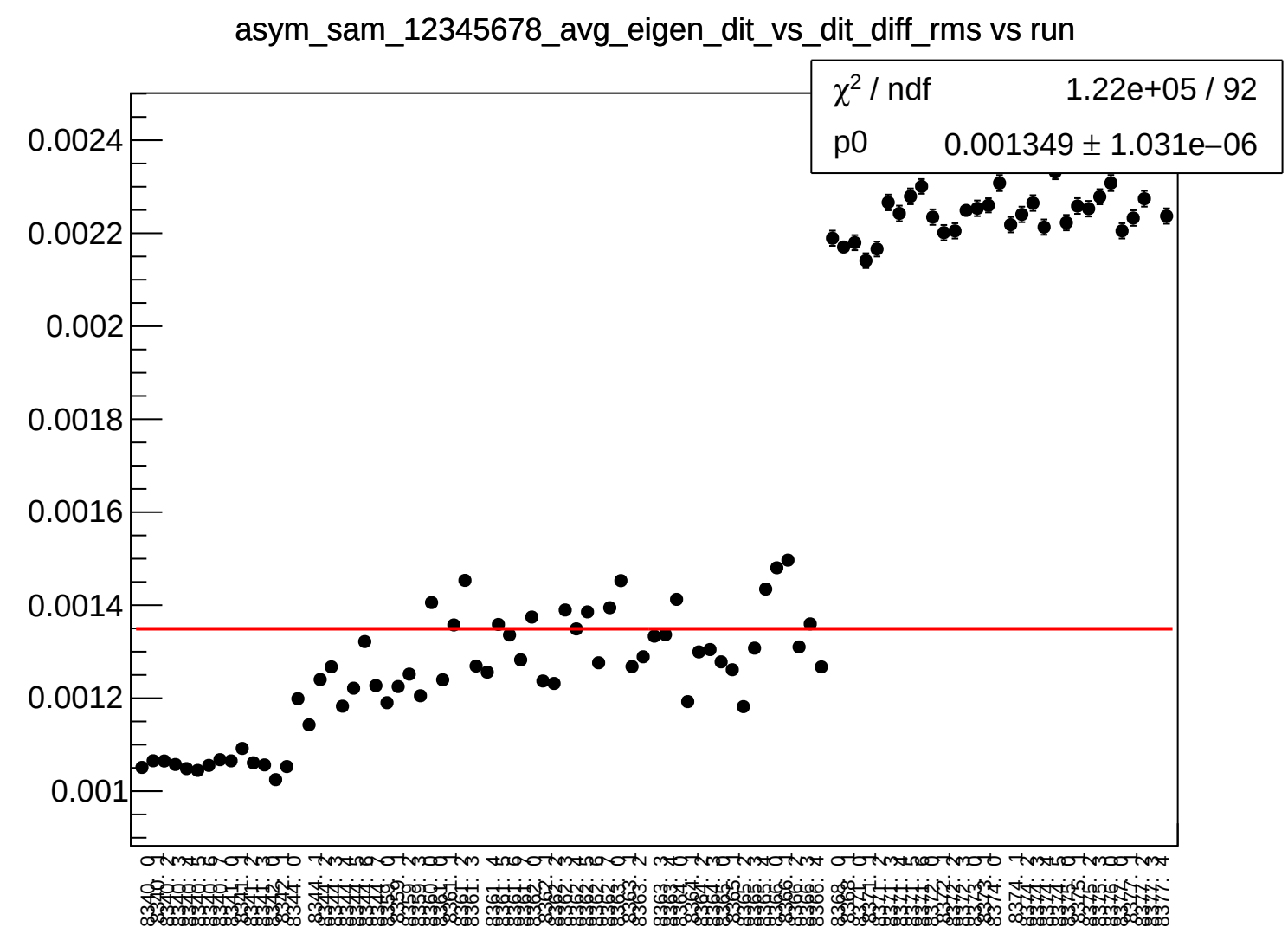

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 32.85 ± 0.02508
100
90
80
70
60
50
40
30
20

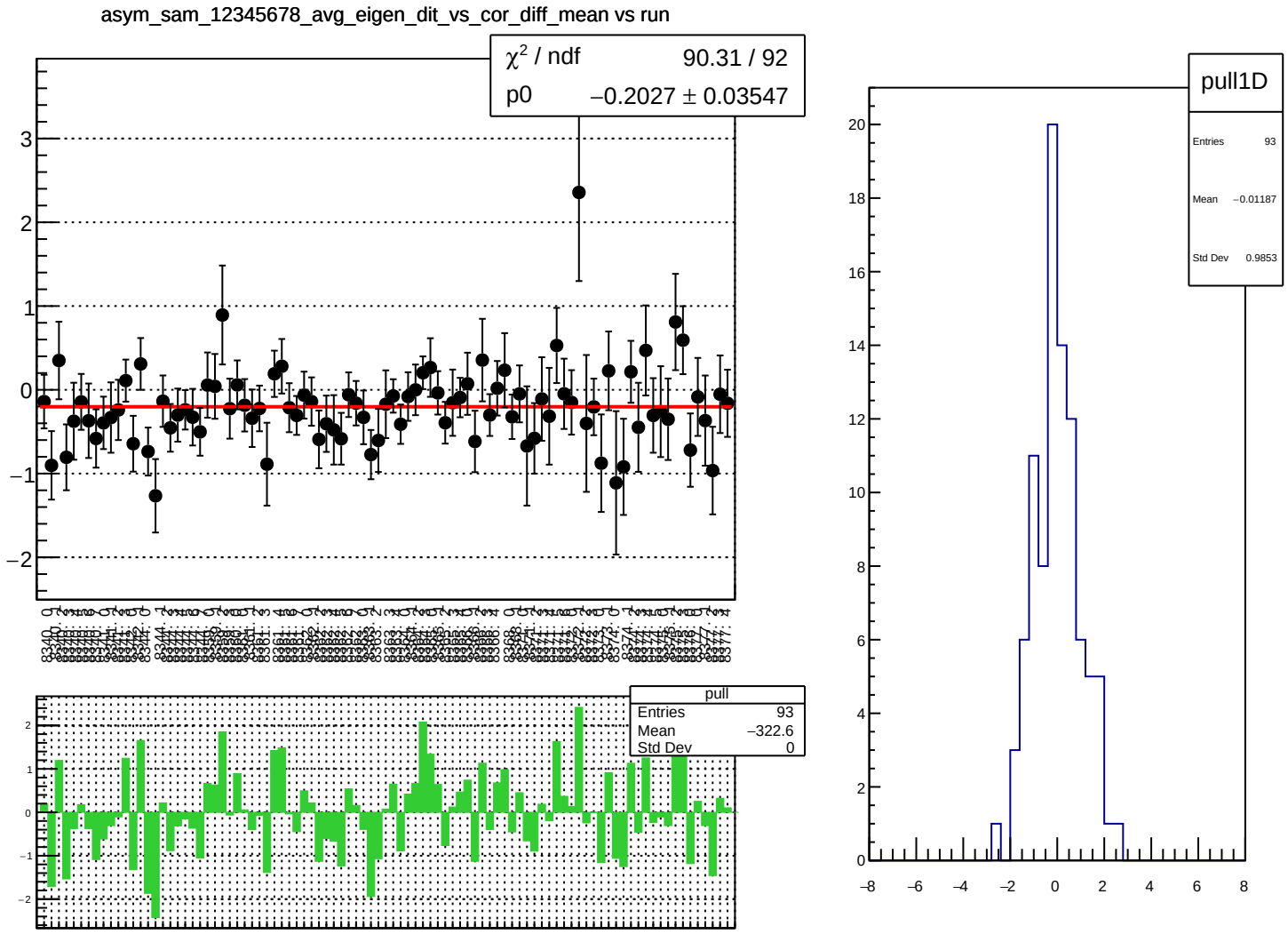

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.31 / 92
p0 −0.2027 ± 0.03547
pull
Entries 93
Mean −322.6
Std Dev 0
pull1D
Entries 93
Mean −0.01187
Std Dev 0.9854

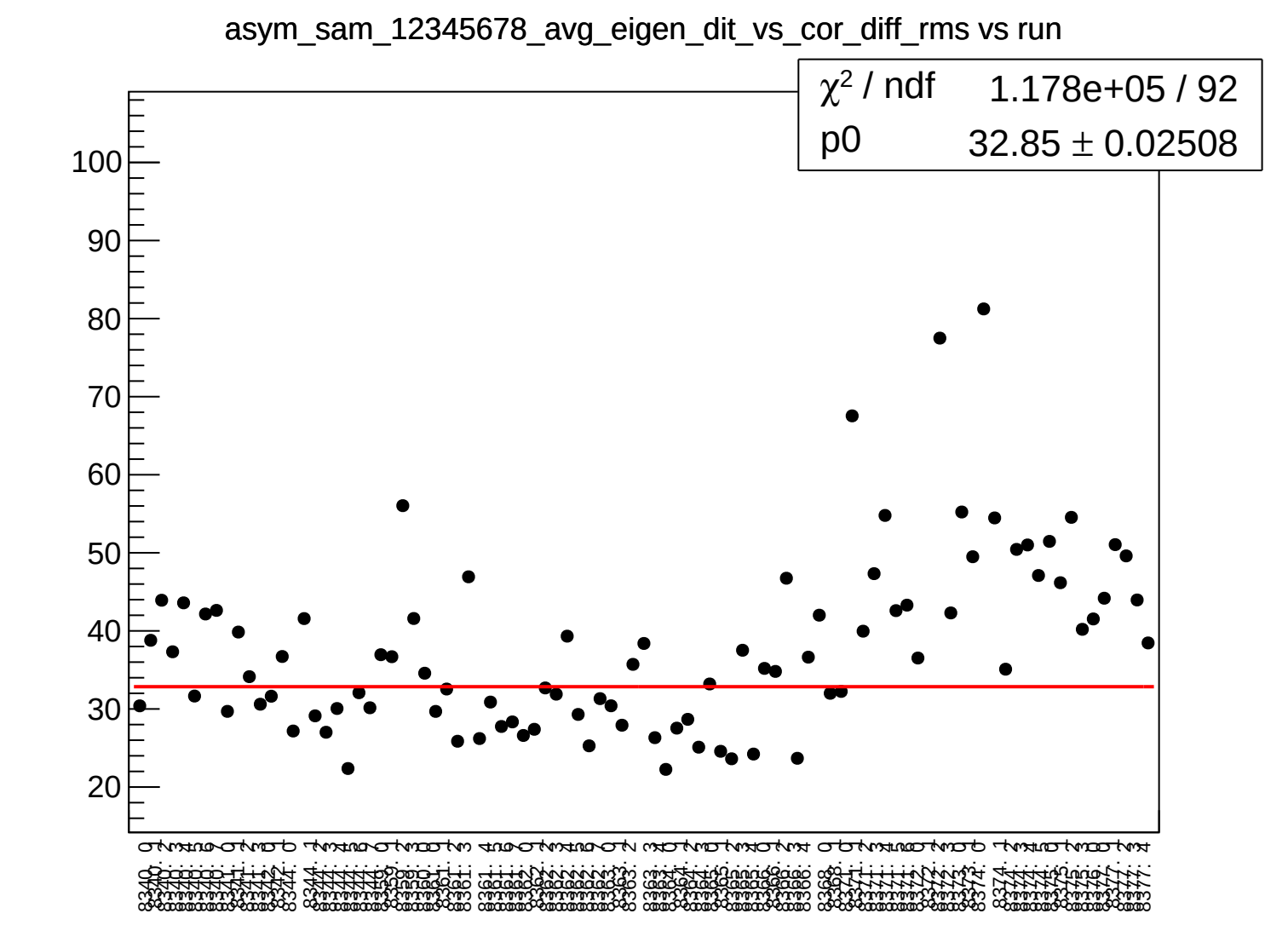

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 32.85 ± 0.02508
100
90
80
70
60
50
40
30
20

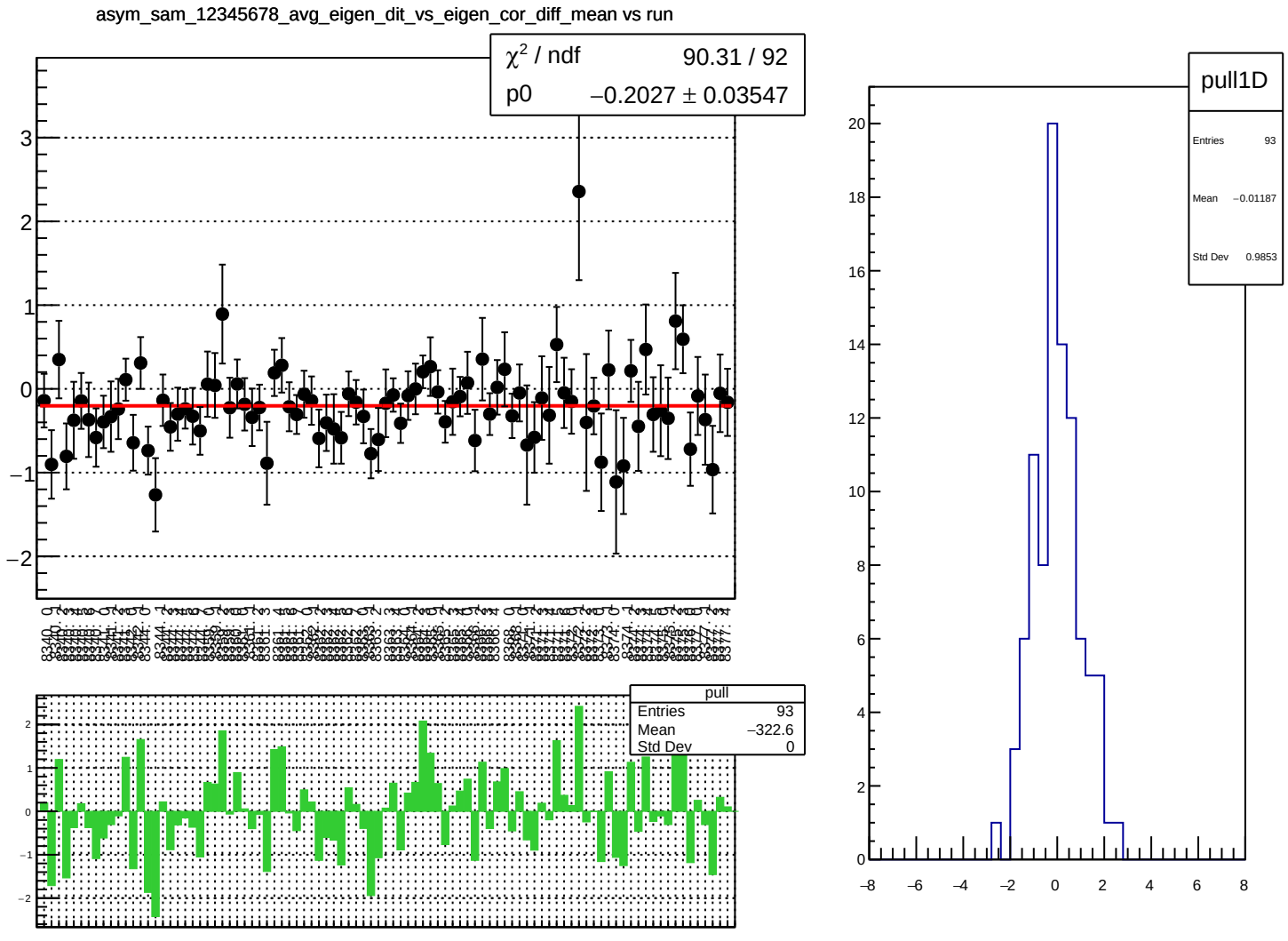

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.71 / 92
p0 5.385e−06 ± 1.458e−06
pull
Entries 93
Mean −257.3
Std Dev 0

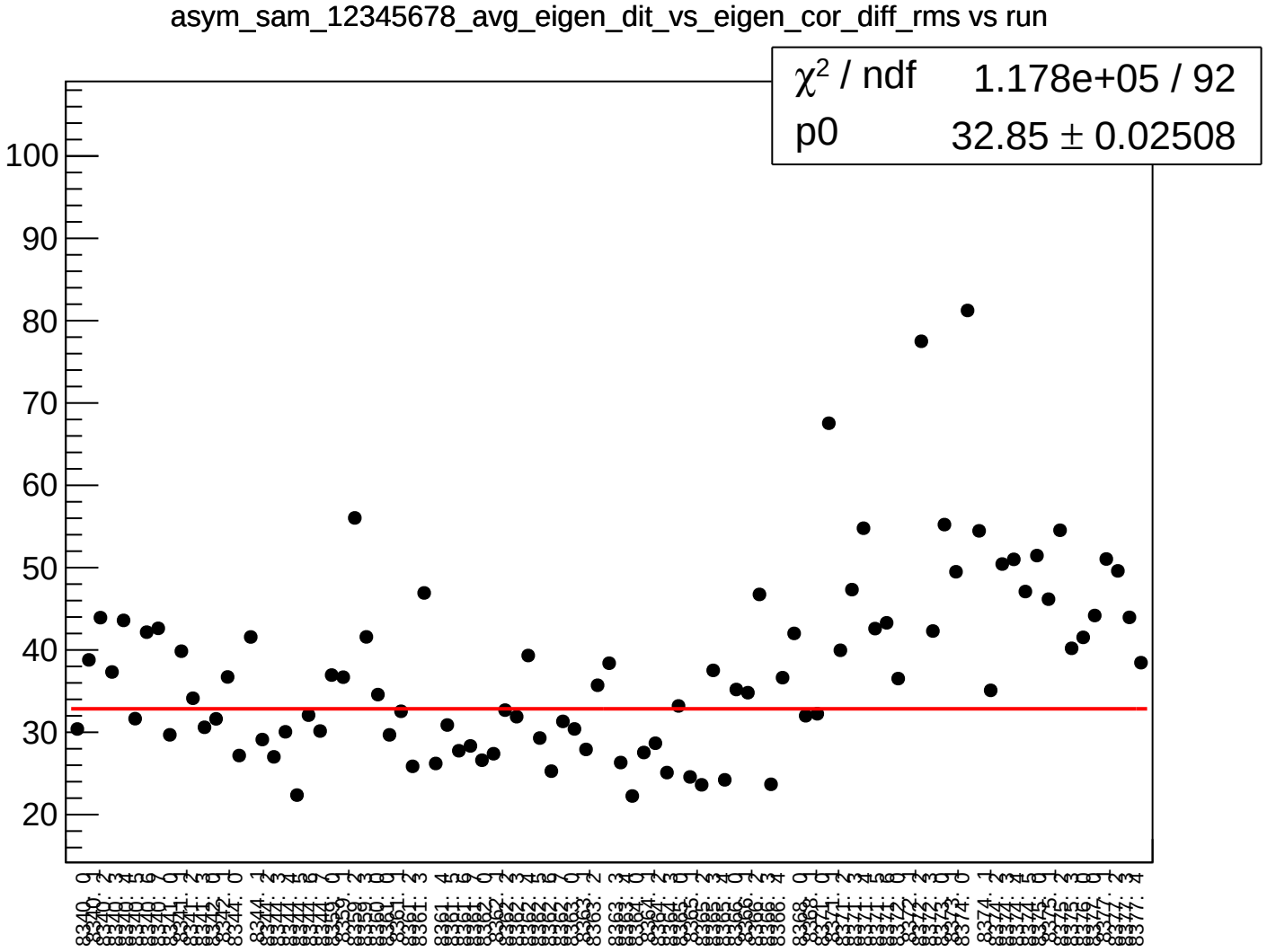

pull1D
Entries 93
Mean 0.004535
Std Dev 1.035

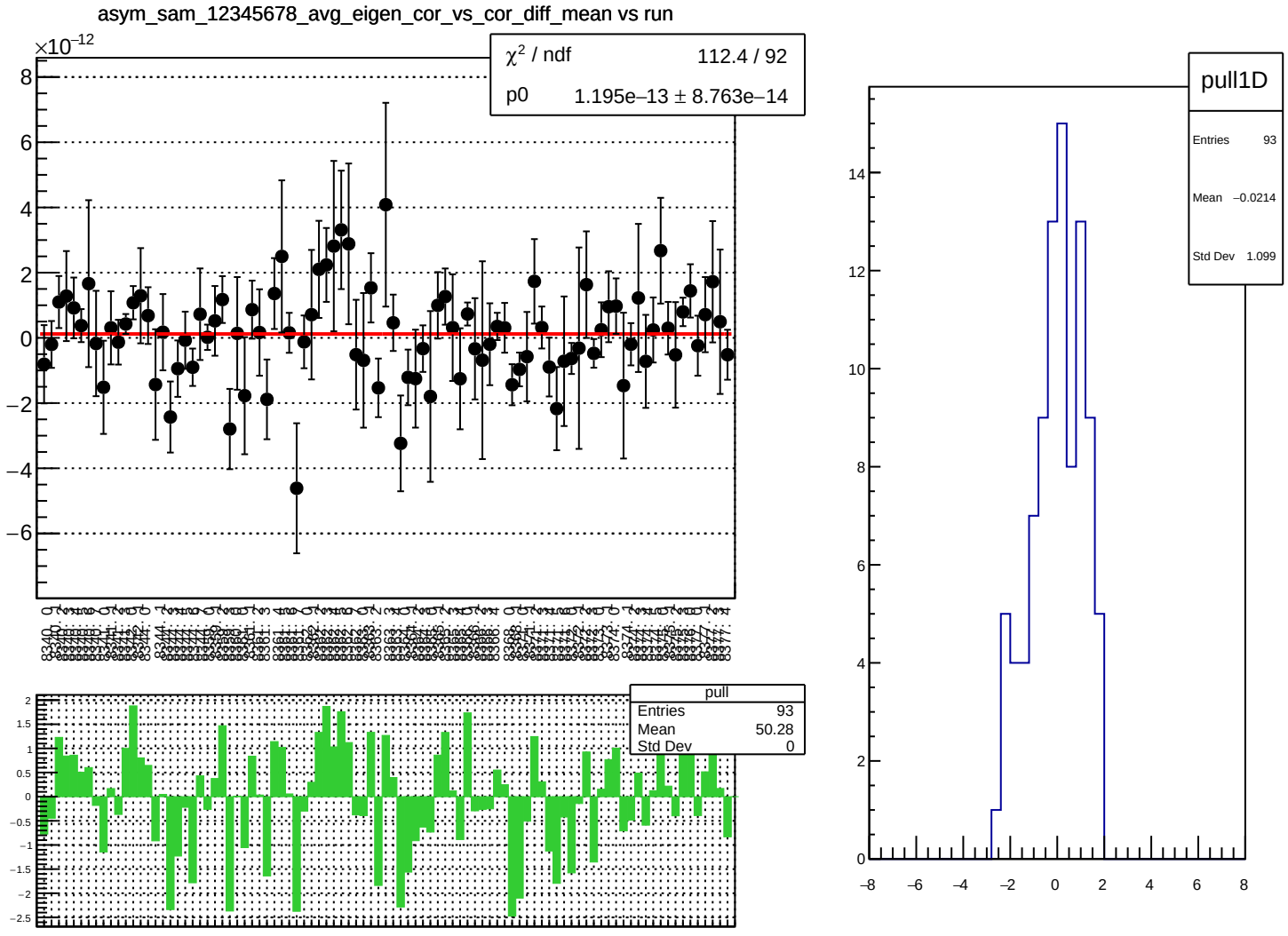

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.22e+05 / 92
p0 0.001349 ± 1.031e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

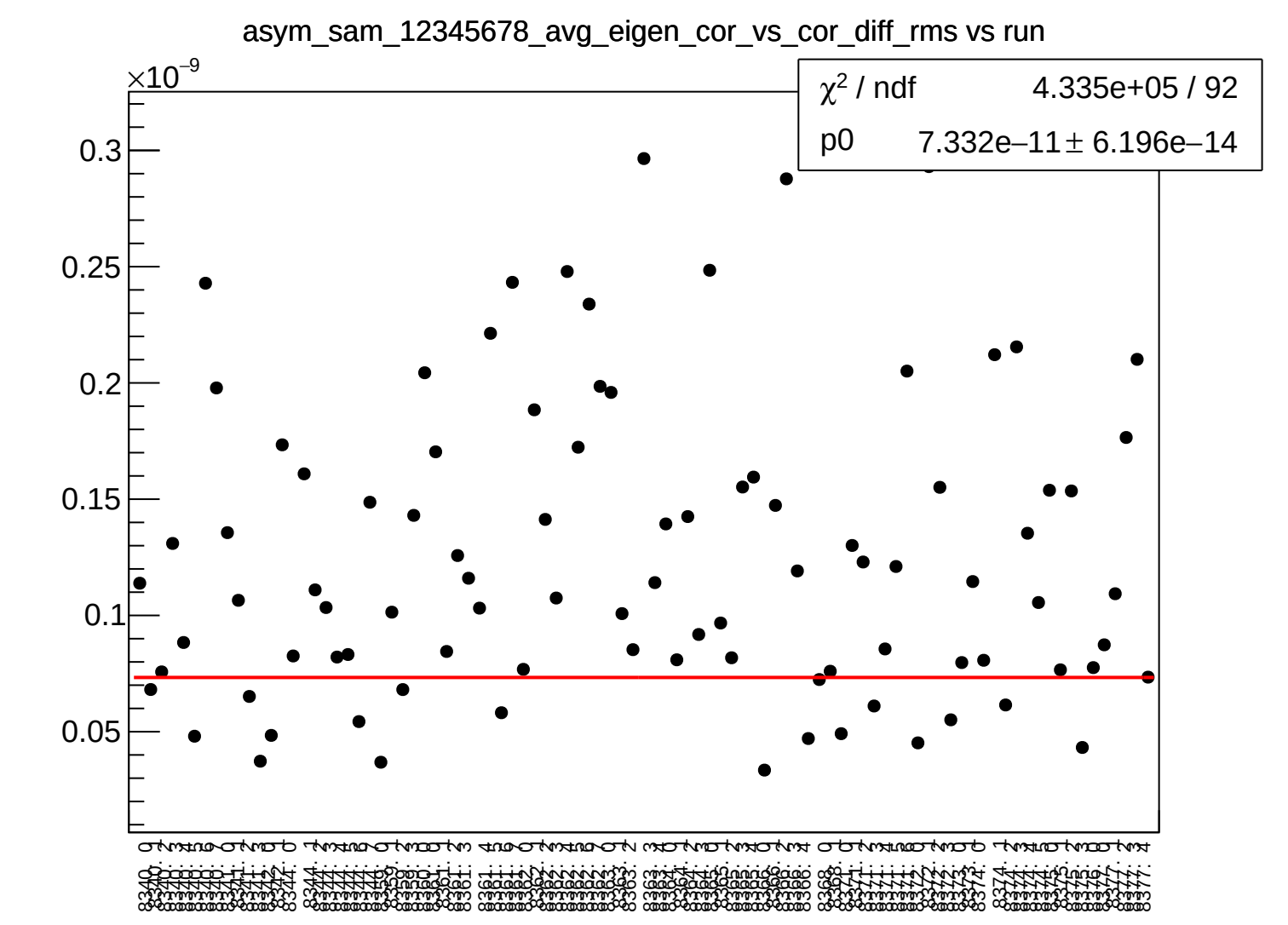

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.31 / 92
p0 −0.2027 ± 0.03547
pull
Entries 93
Mean −322.6
Std Dev 0
pull1D
Entries 93
Mean −0.01187
Std Dev 0.9853

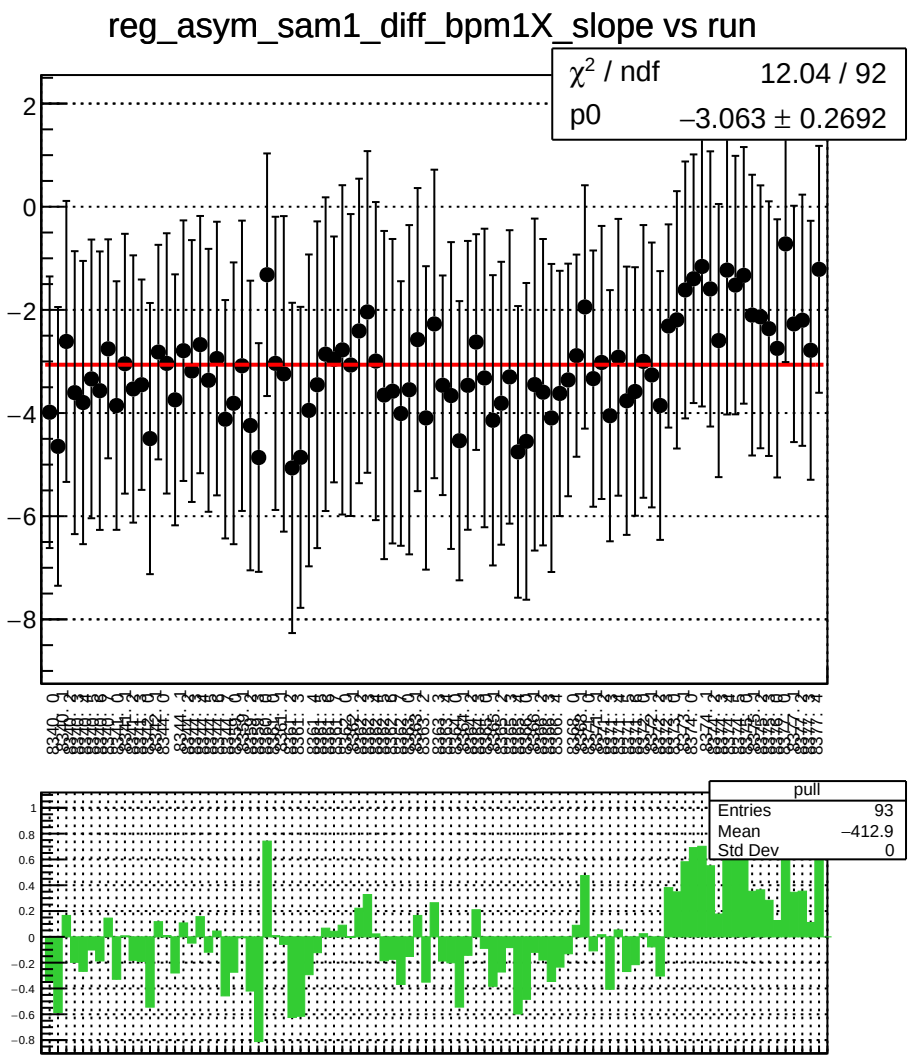

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 32.85 ± 0.02508
100
90
80
70
60
50
40
30
20

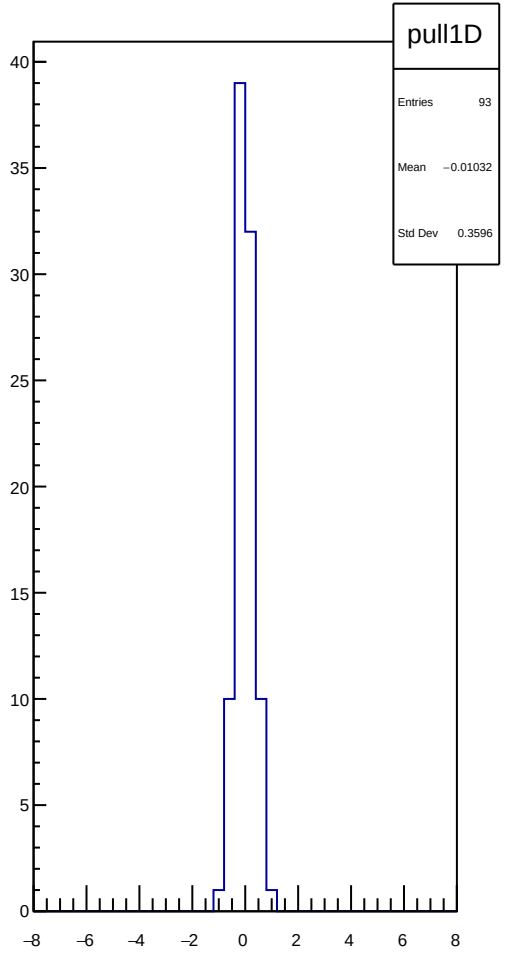

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.31 / 92
p0 −0.2027 ± 0.03547
pull
Entries 93
Mean −322.6
Std Dev 0
pull1D
Entries 93
Mean −0.01187
Std Dev 0.9853

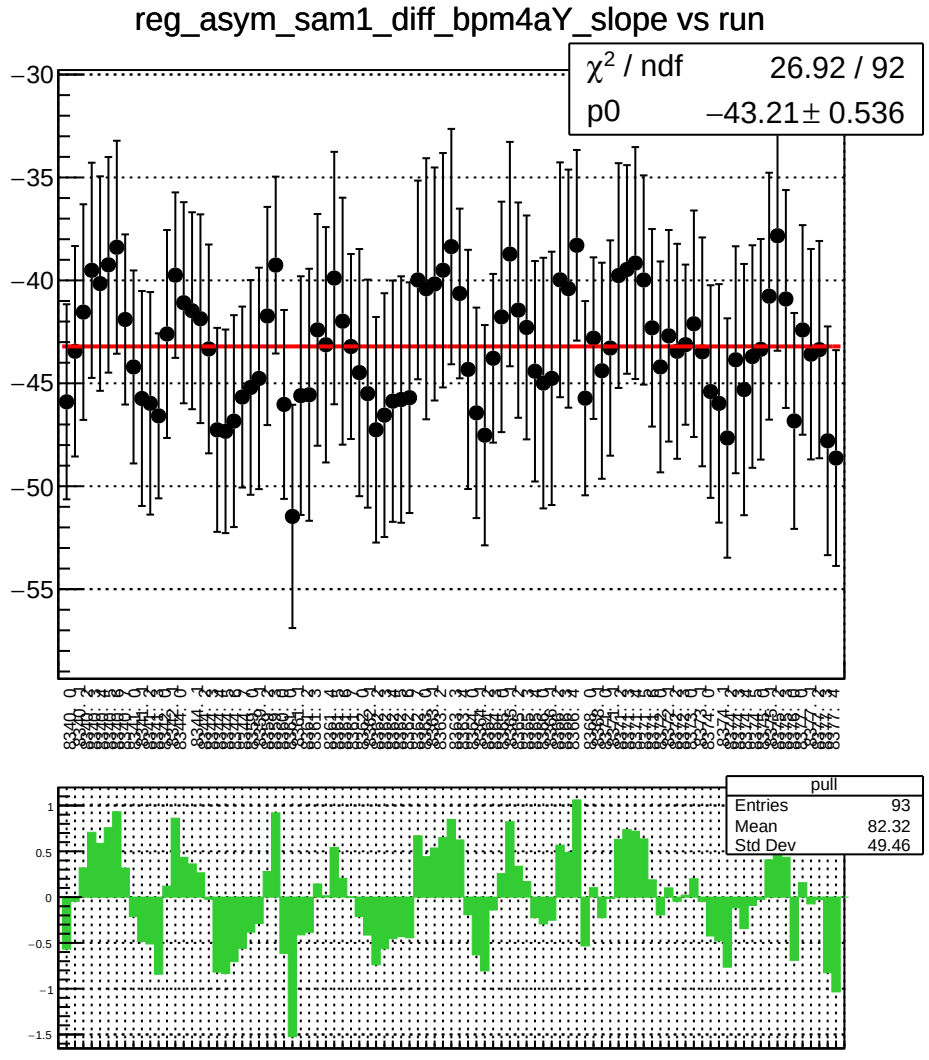

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.178e+05 / 92
p0 32.85 ± 0.02508
100
90
80
70
60
50
40
30
20

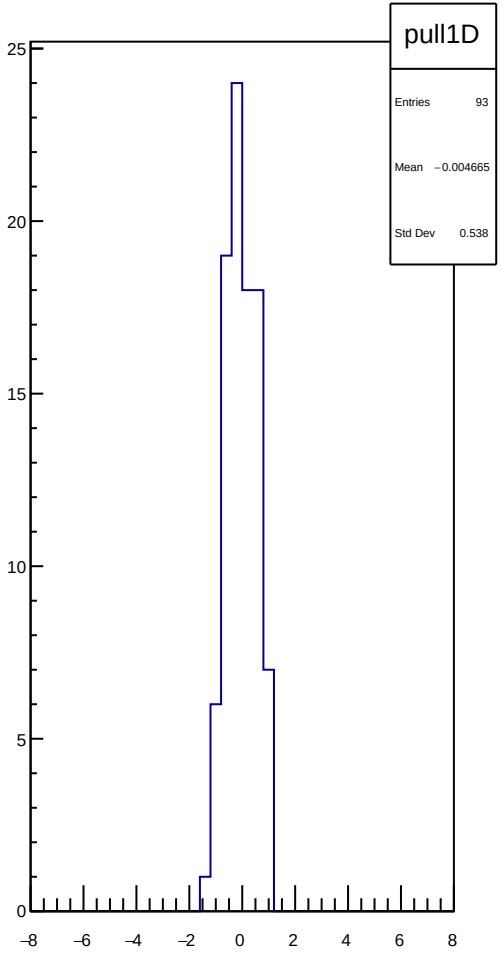

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.4 / 92
p0 1.195e−13 ± 8.763e−14
pull
Entries 93
Mean 50.28
Std Dev 0
pull1D
Entries 93
Mean −0.0214
Std Dev 1.099

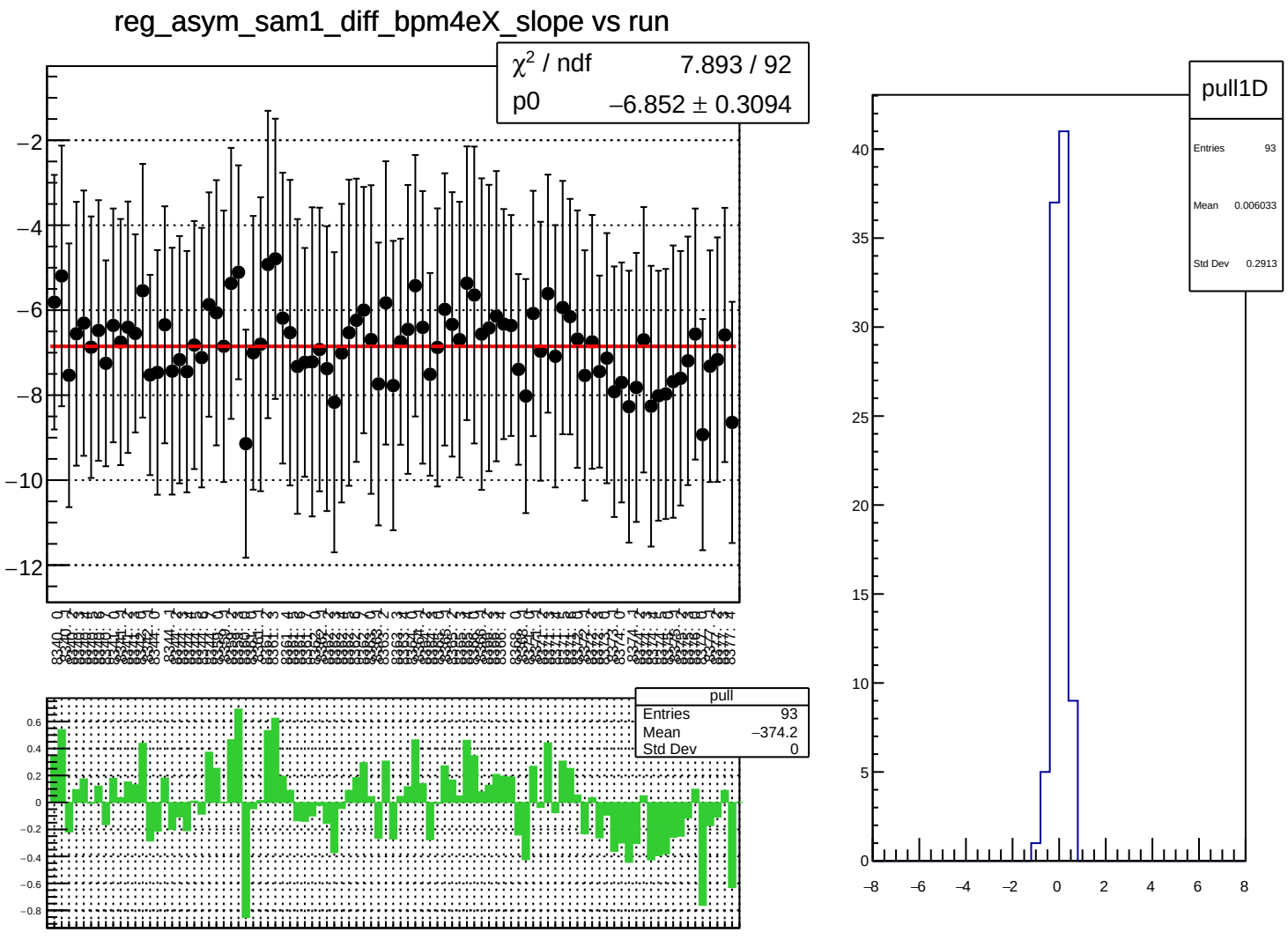

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.335e+05 / 92
p0 7.332e−11 ± 6.196e−14
0.3
0.25
0.2
0.15
0.1
0.05

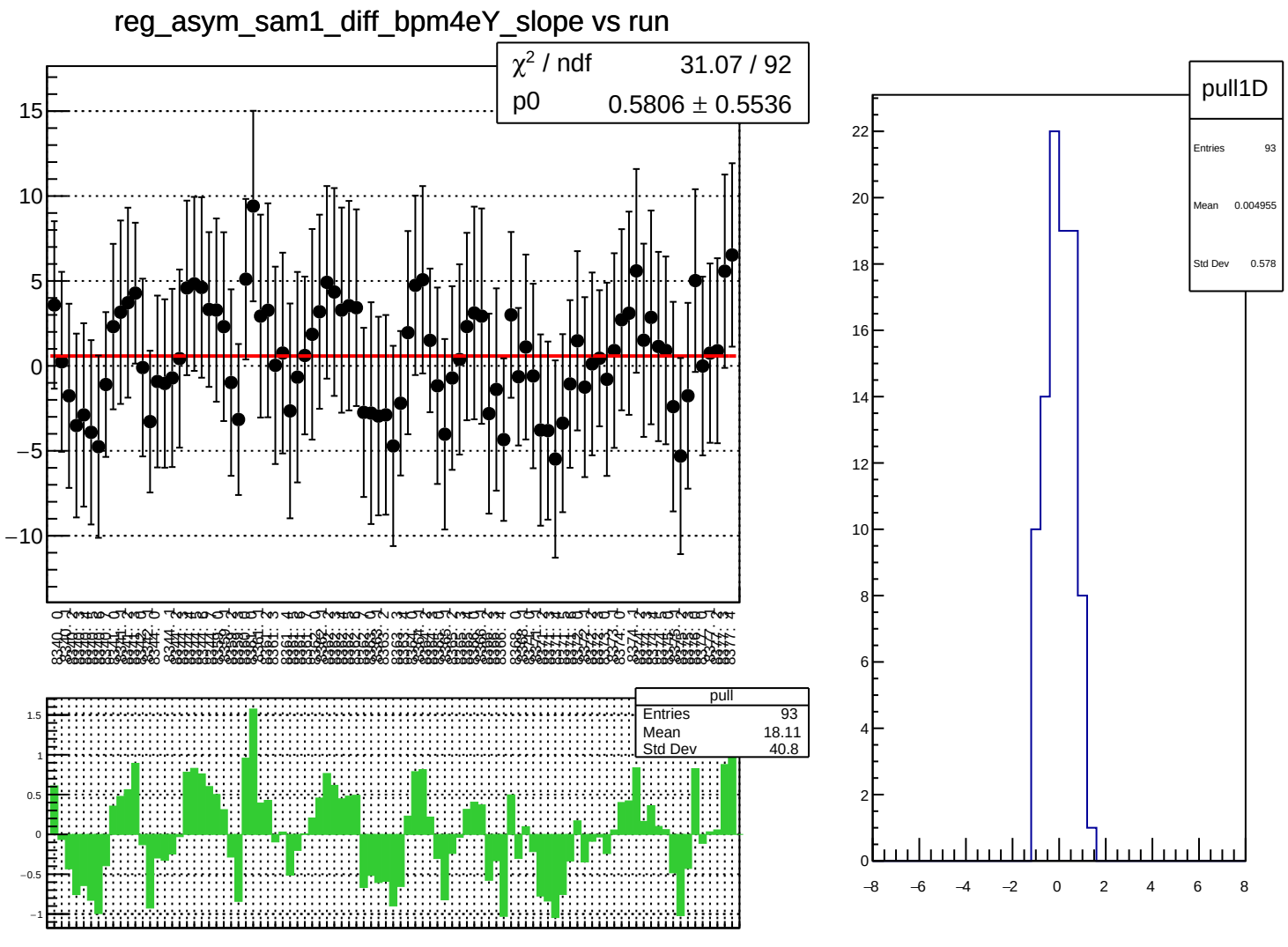

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 12.04 / 92
p0 −3.063 ± 0.2692
pull
Entries 93
Mean −412.9
Std Dev 0

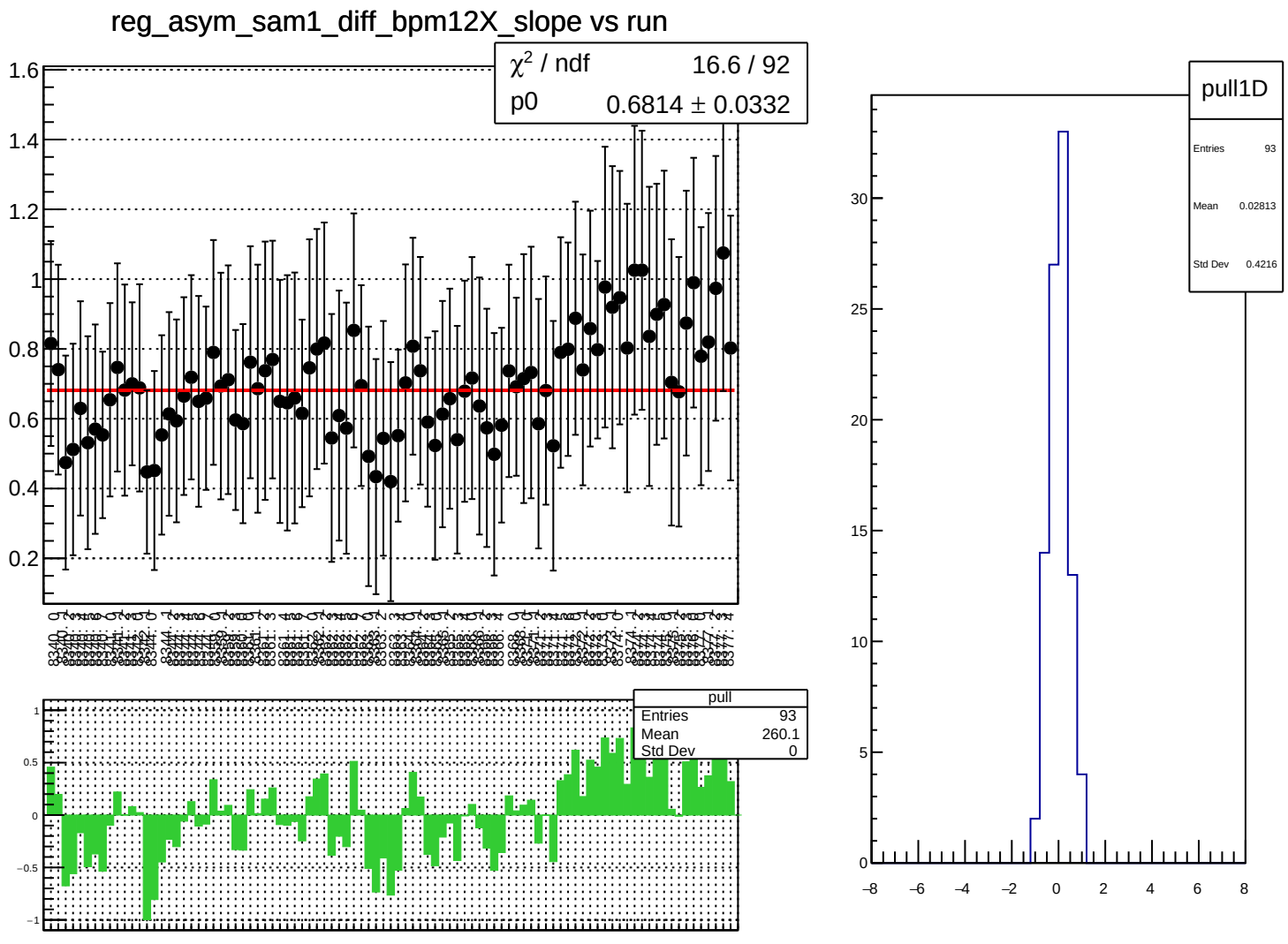

pull1D
Entries 93
Mean −0.01032
Std Dev 0.3596

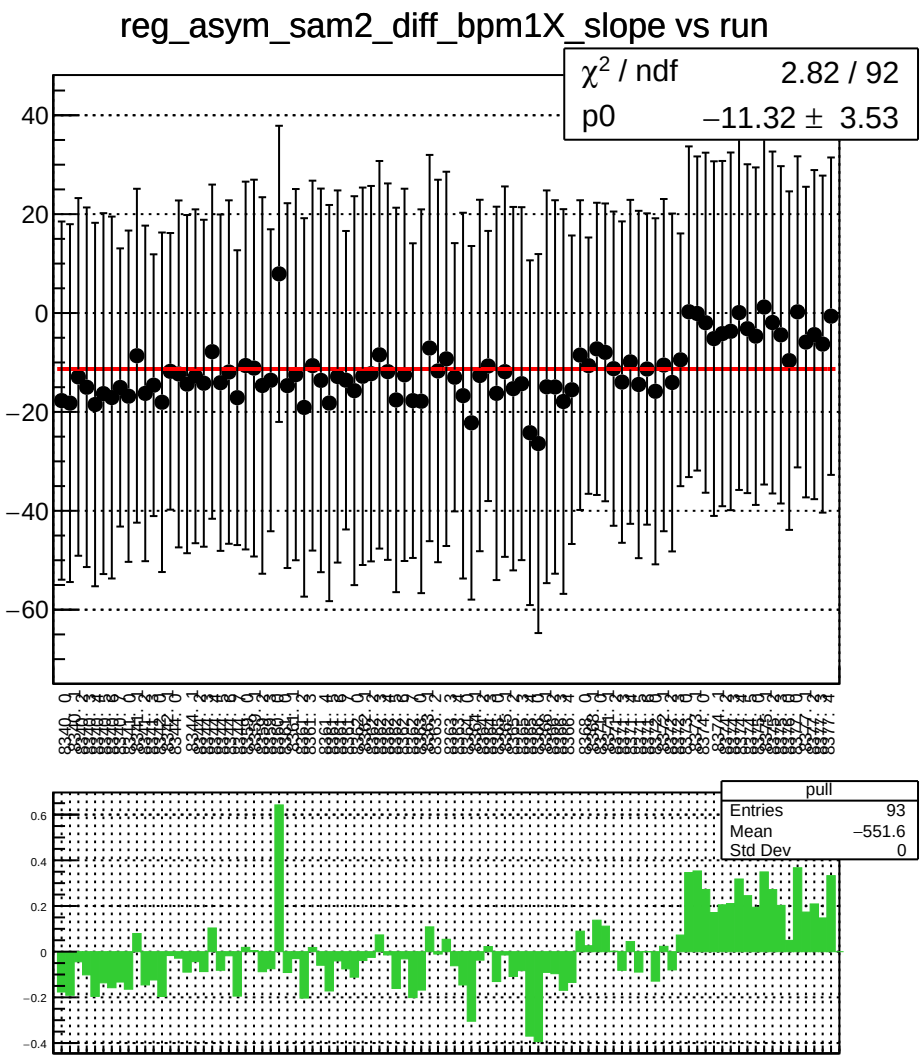

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 26.92 / 92
p0 −43.21 ± 0.536
pull
Entries 93
Mean 82.32
Std Dev 49.46

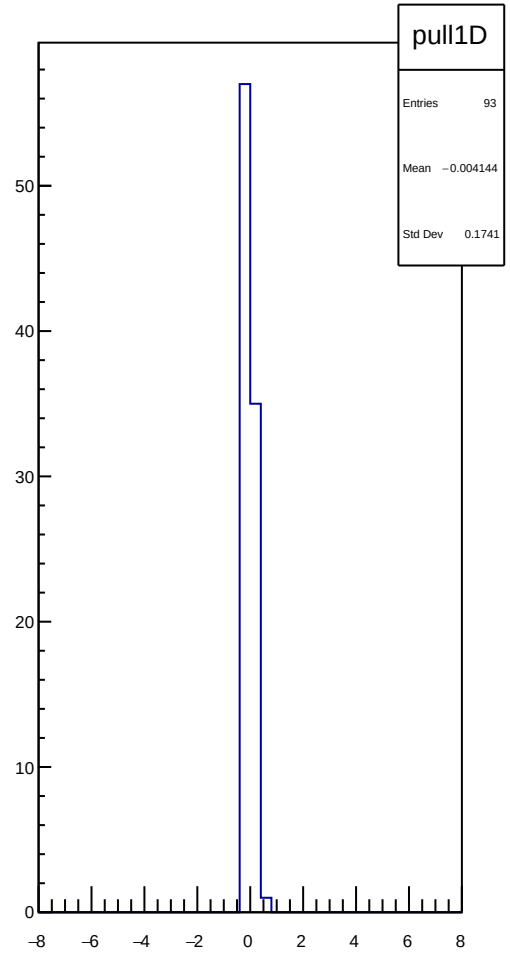

pull1D
Entries 93
Mean −0.004665
Std Dev 0.538

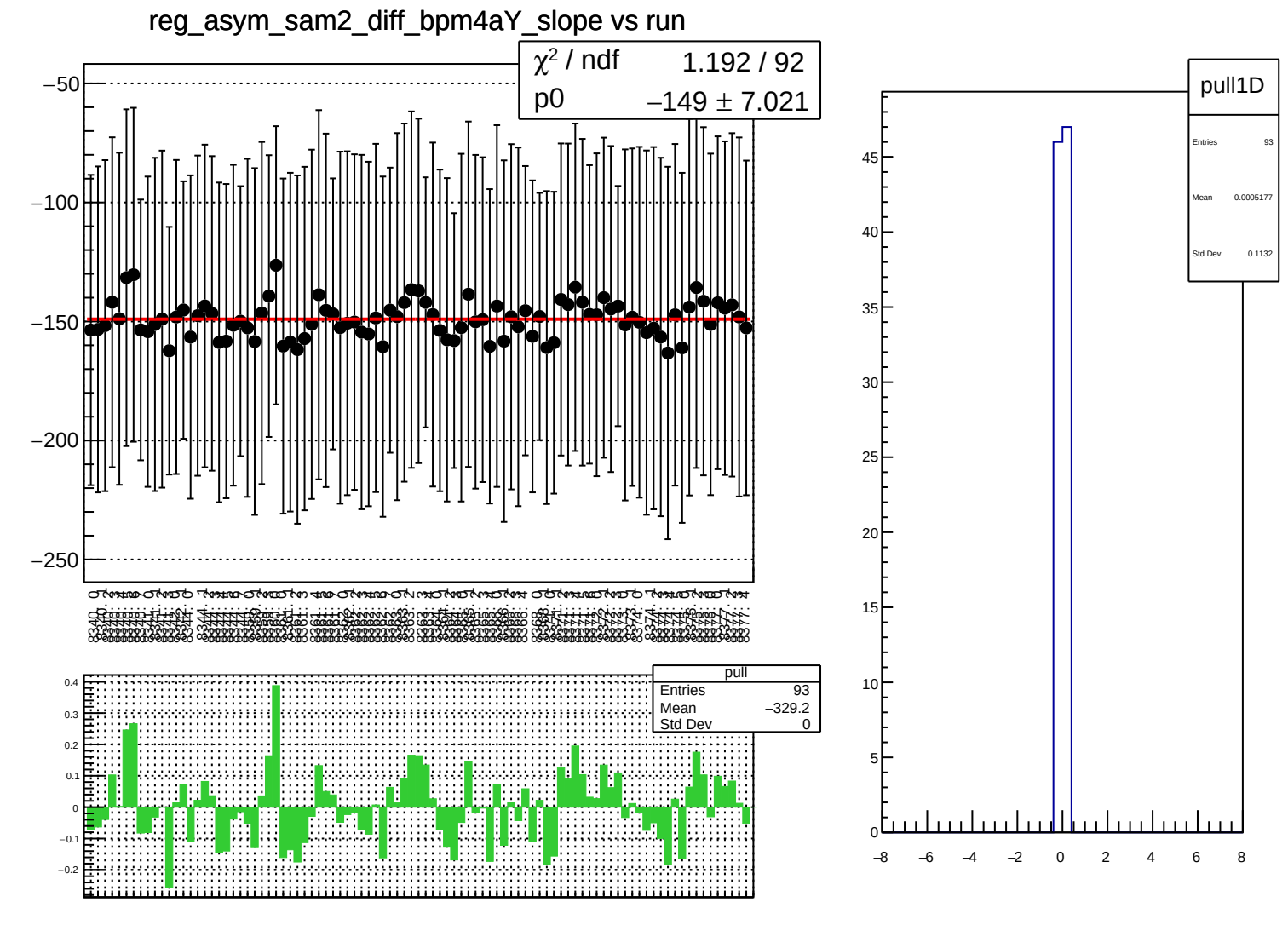

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 7.893 / 92
p0 −6.852 ± 0.3094
pull
Entries 93
Mean −374.2
Std Dev 0
pull1D
Entries 93
Mean 0.006033
Std Dev 0.2913

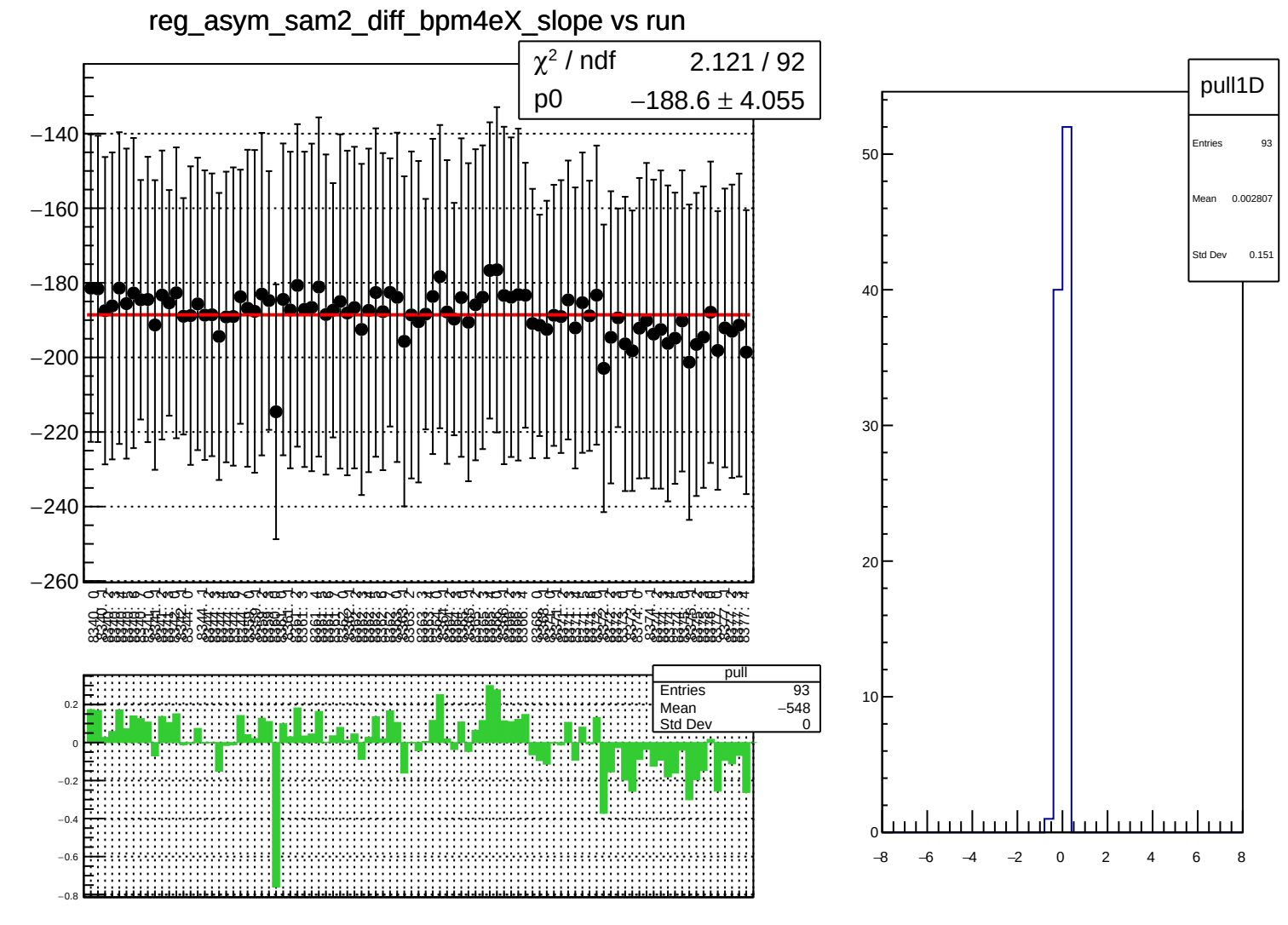

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 31.07 / 92
p0 0.5806 ± 0.5536
pull
Entries 93
Mean 18.11
Std Dev 40.8
pull1D
Entries 93
Mean 0.004955
Std Dev 0.578

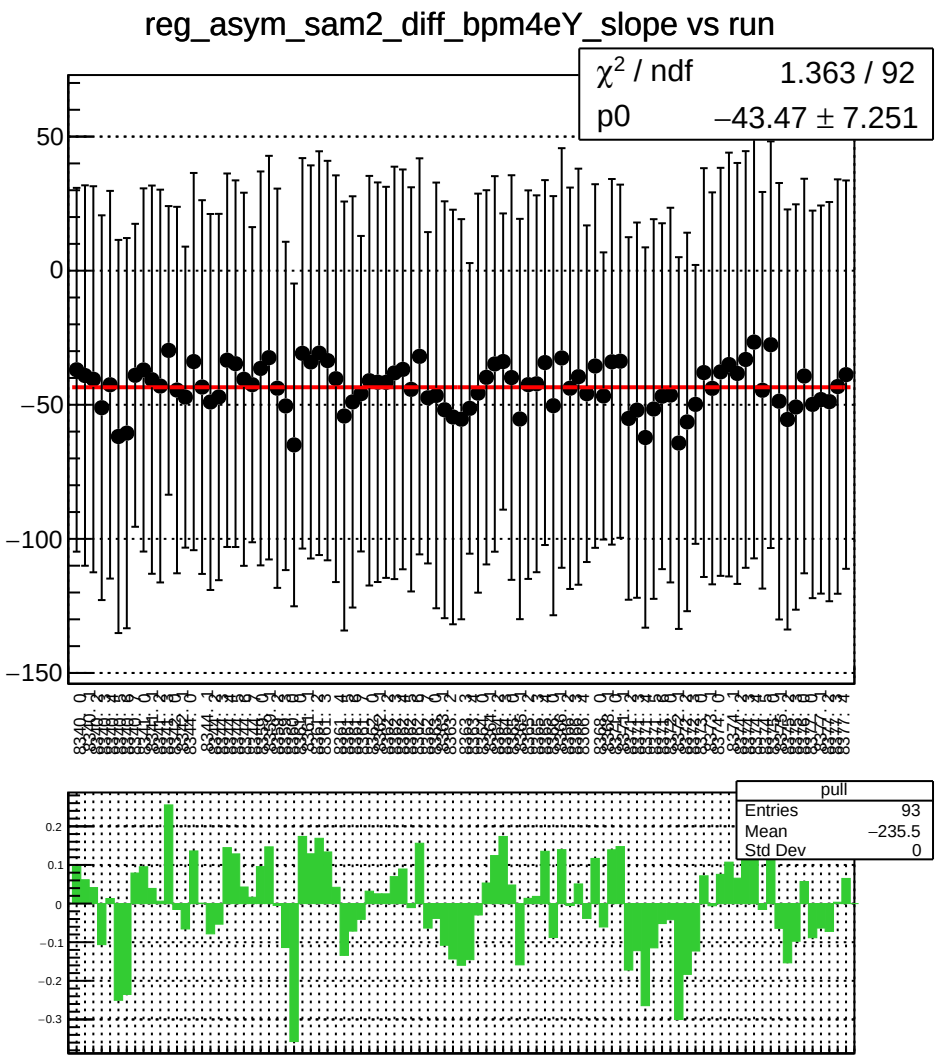

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.6 / 92
p0 0.6814 ± 0.0332
pull
Entries 93
Mean 260.1
Std Dev 0
pull1D
Entries 93
Mean 0.02813
Std Dev 0.4216

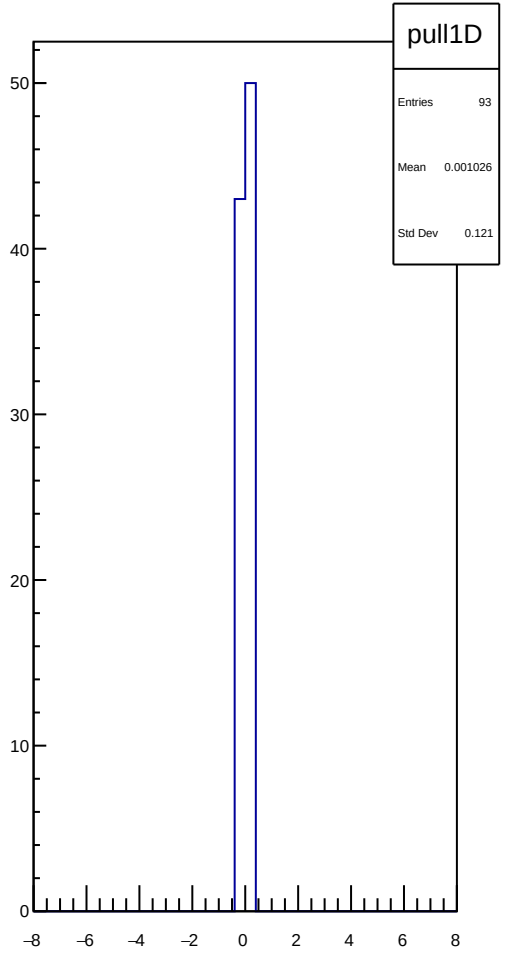

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.82 / 92
p0 −11.32 ± 3.53
40
20
0
−20
−40
−60
pull
Entries 93
Mean −551.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

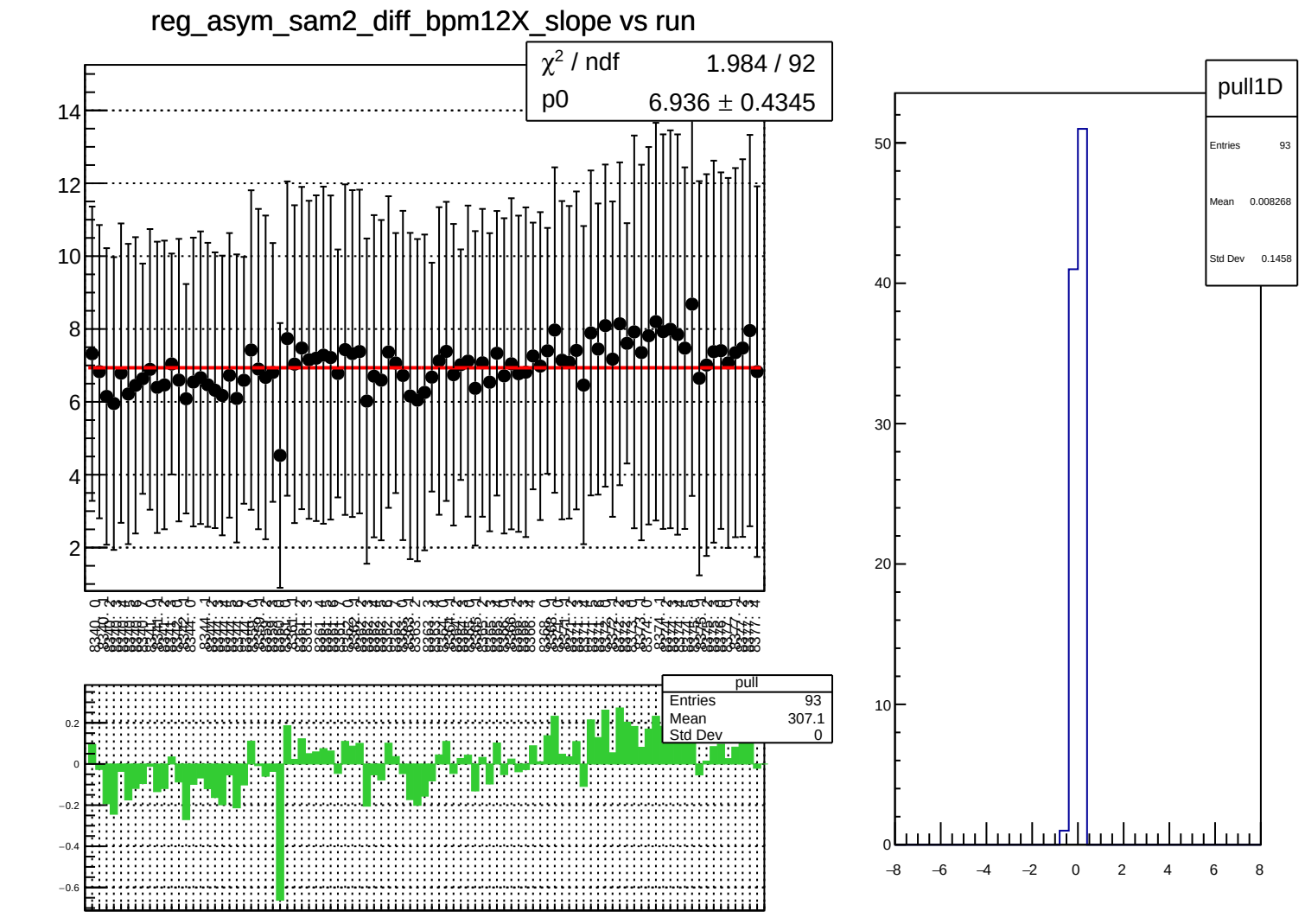

pull1D
Entries 93
Mean −0.004144
Std Dev 0.1741
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

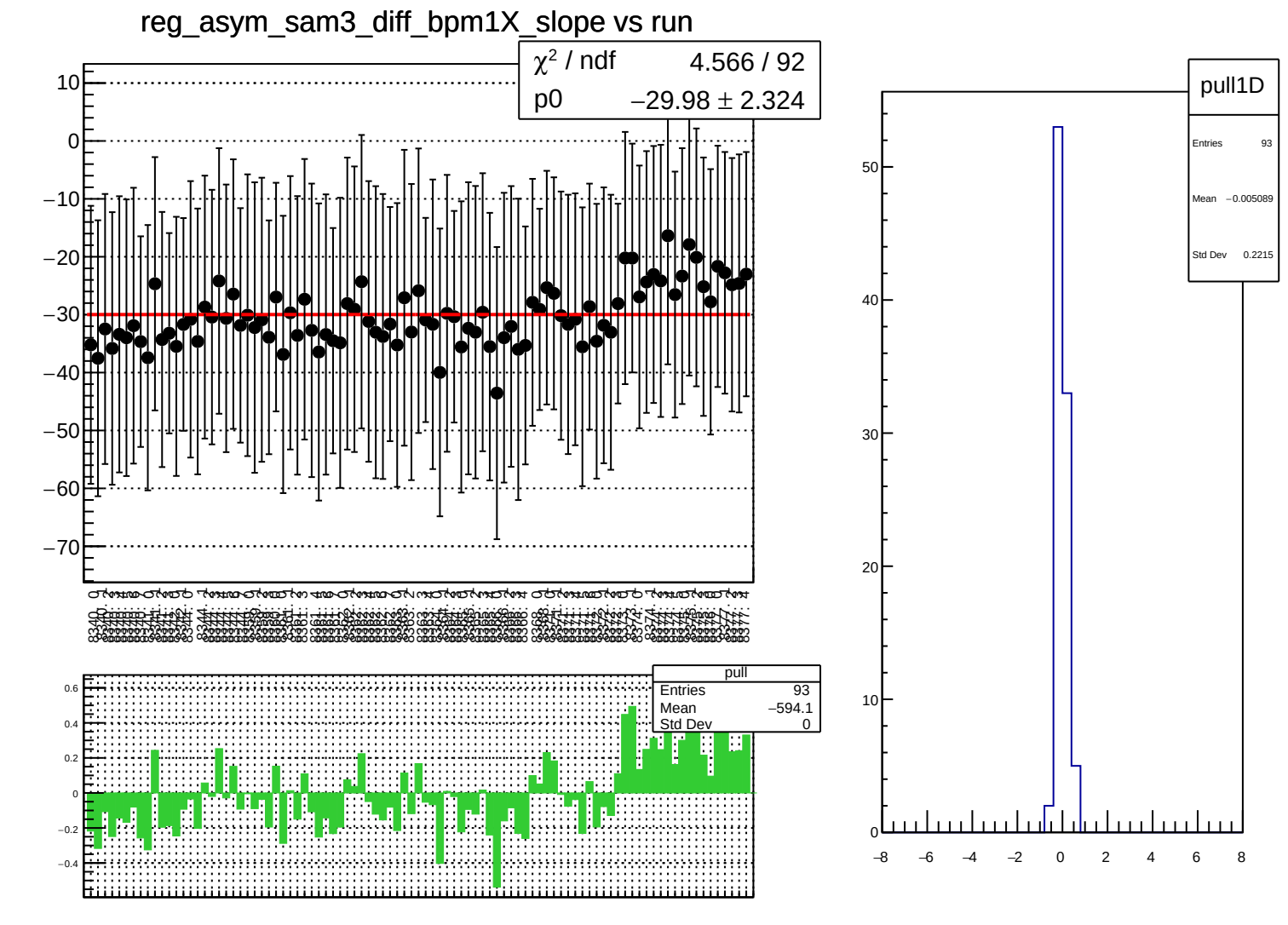

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 1.192 / 92
p0 −149 ± 7.021
−50
−100
−150
−200
−250
pull
Entries 93
Mean −329.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 93
Mean −0.0005177
Std Dev 0.1132
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

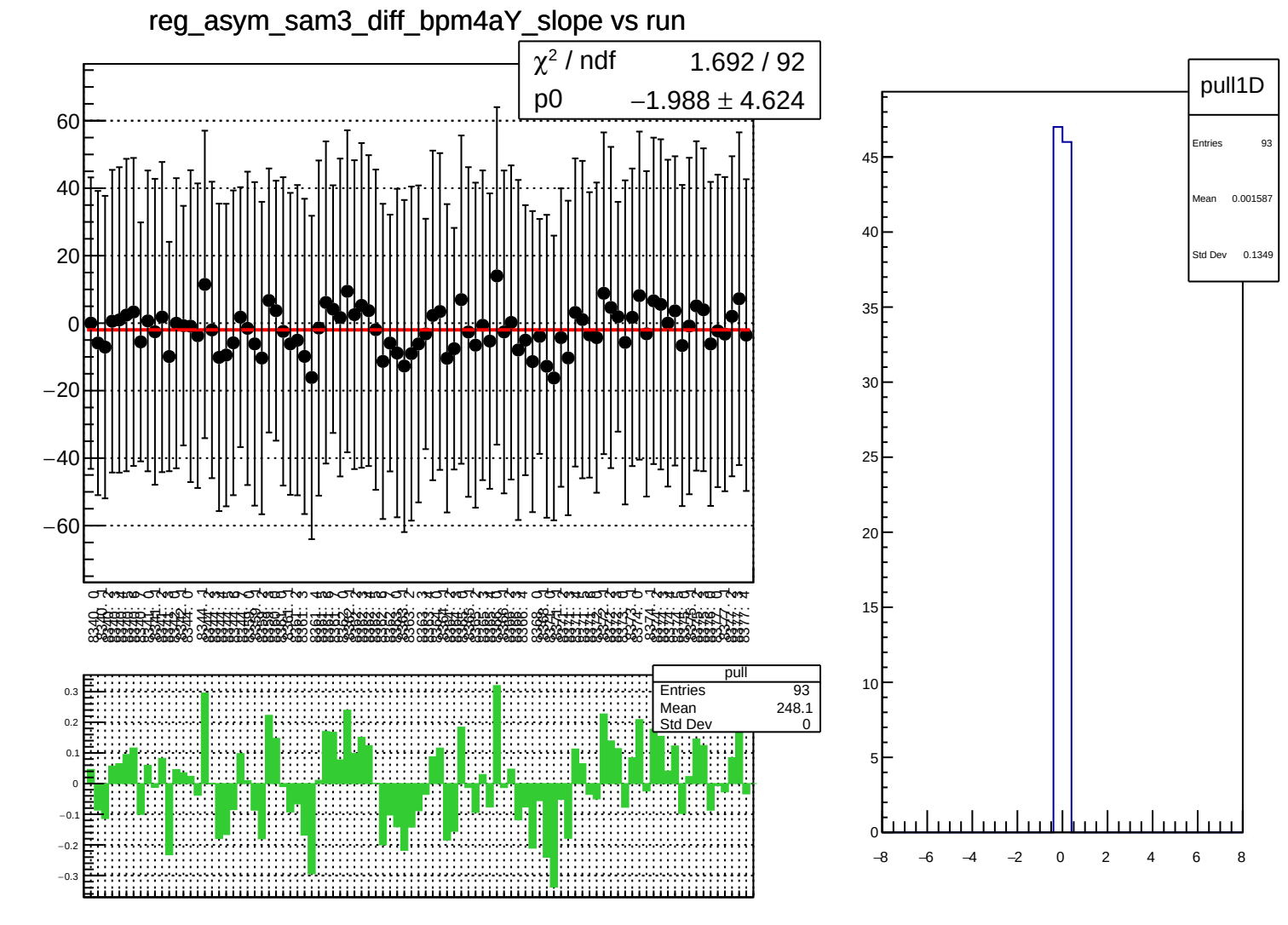

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.121 / 92
p0 −188.6 ± 4.055
pull
Entries 93
Mean −548
Std Dev 0
pull1D
Entries 93
Mean 0.002807
Std Dev 0.151

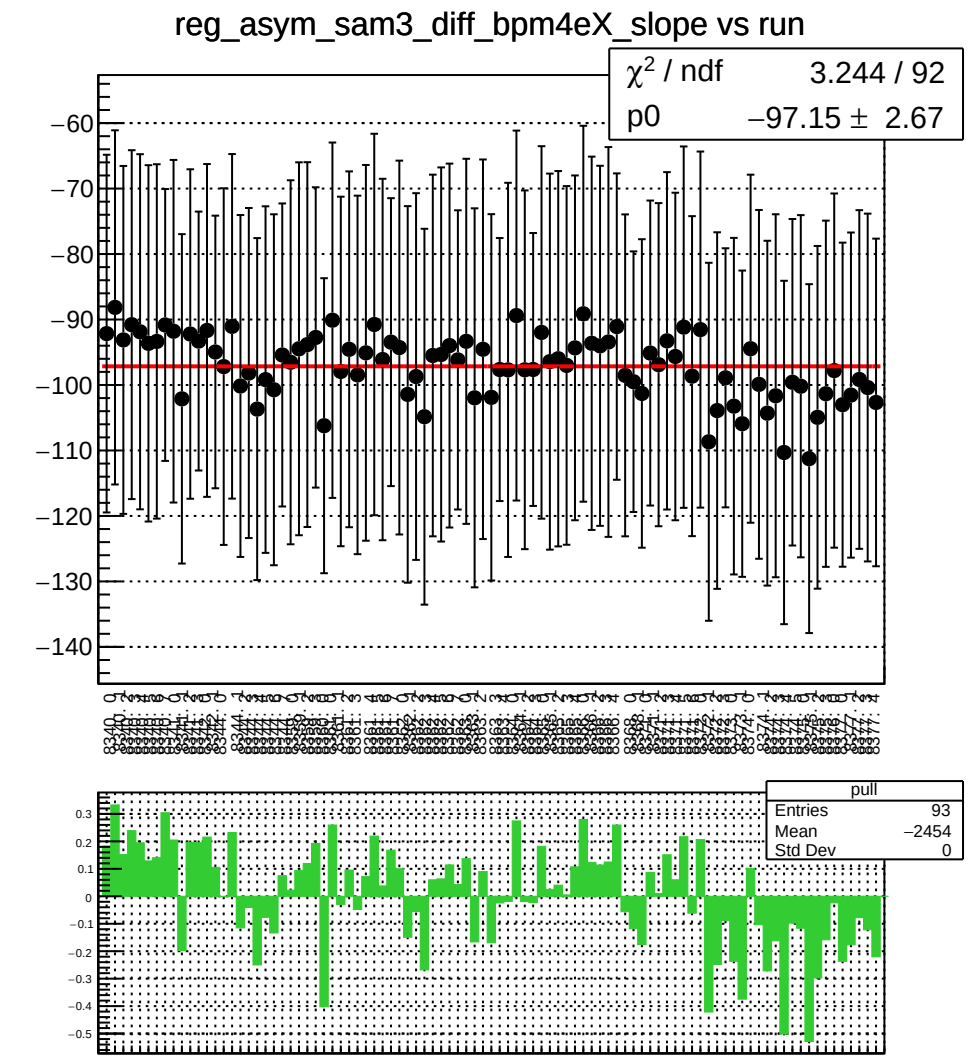

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 1.363 / 92
p0 −43.47 ± 7.251
50
0
−50
−100
−150
pull
Entries 93
Mean −235.5
Std Dev 0
0.2
0.1
0
−0.1
−0.2
−0.3

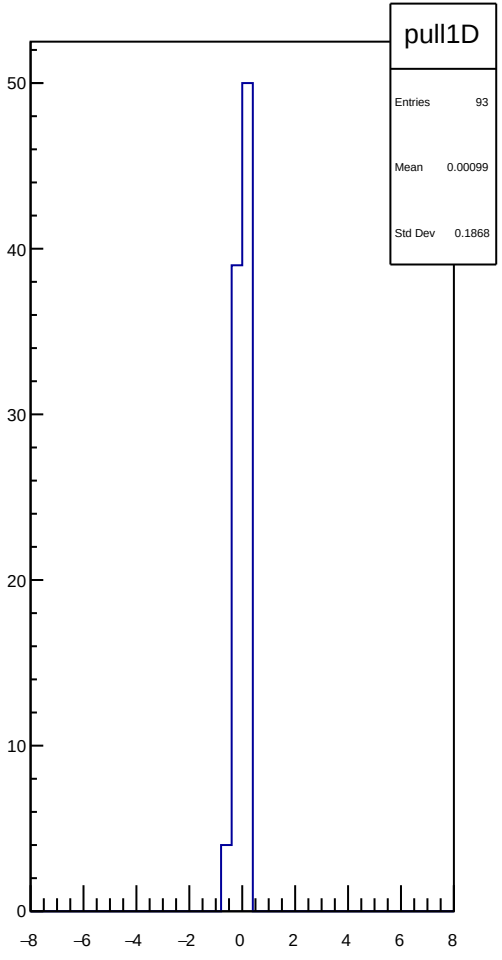

pull1D
Entries 93
Mean 0.001026
Std Dev 0.121
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

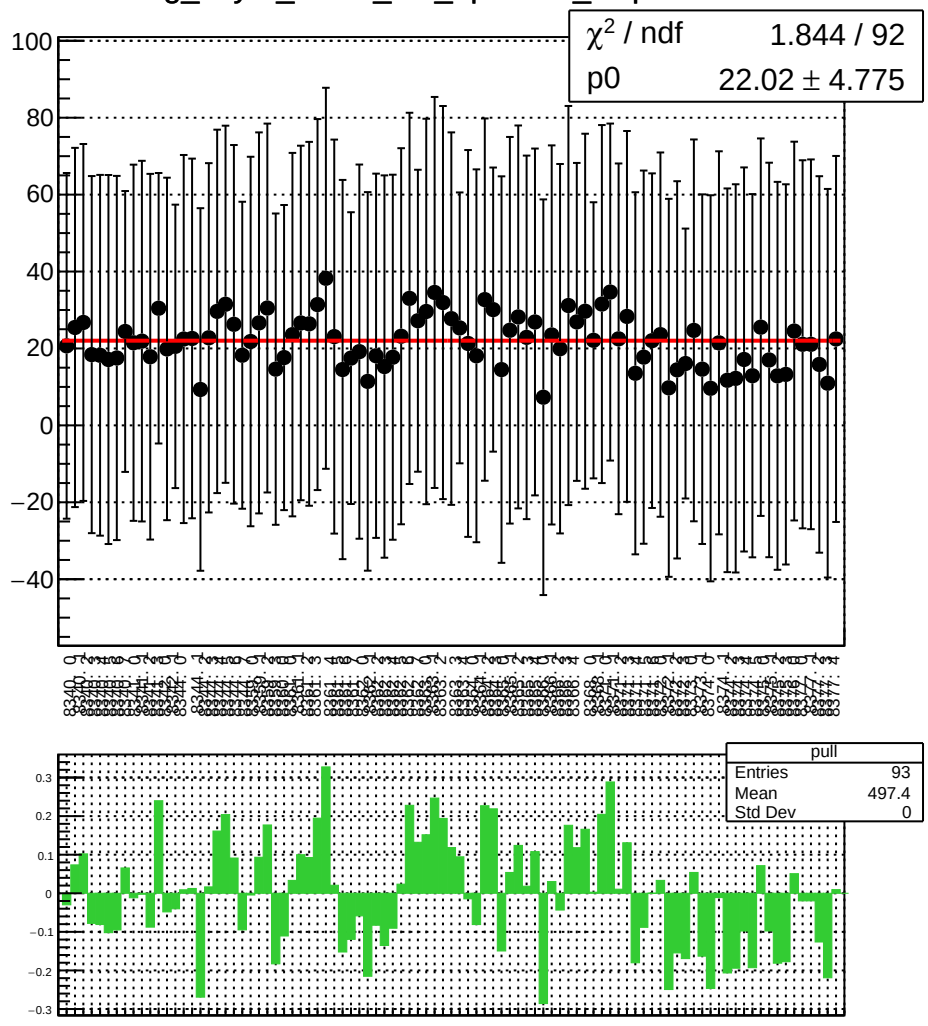

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 1.984 / 92
p0 6.936 ± 0.4345
pull
Entries 93
Mean 307.1
Std Dev 0
pull1D
Entries 93
Mean 0.008268
Std Dev 0.1458

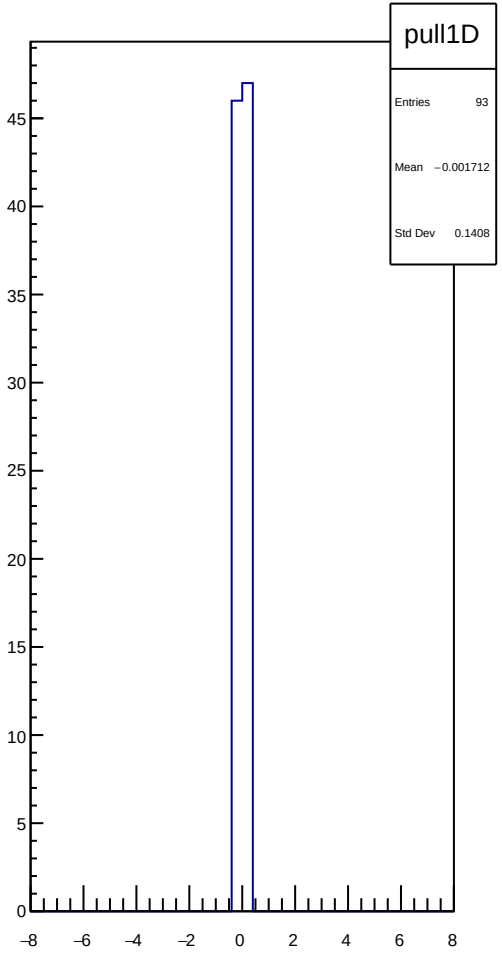

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.566 / 92
p0 −29.98 ± 2.324
pull
Entries 93
Mean −594.1
Std Dev 0
pull1D
Entries 93
Mean −0.005089
Std Dev 0.2215

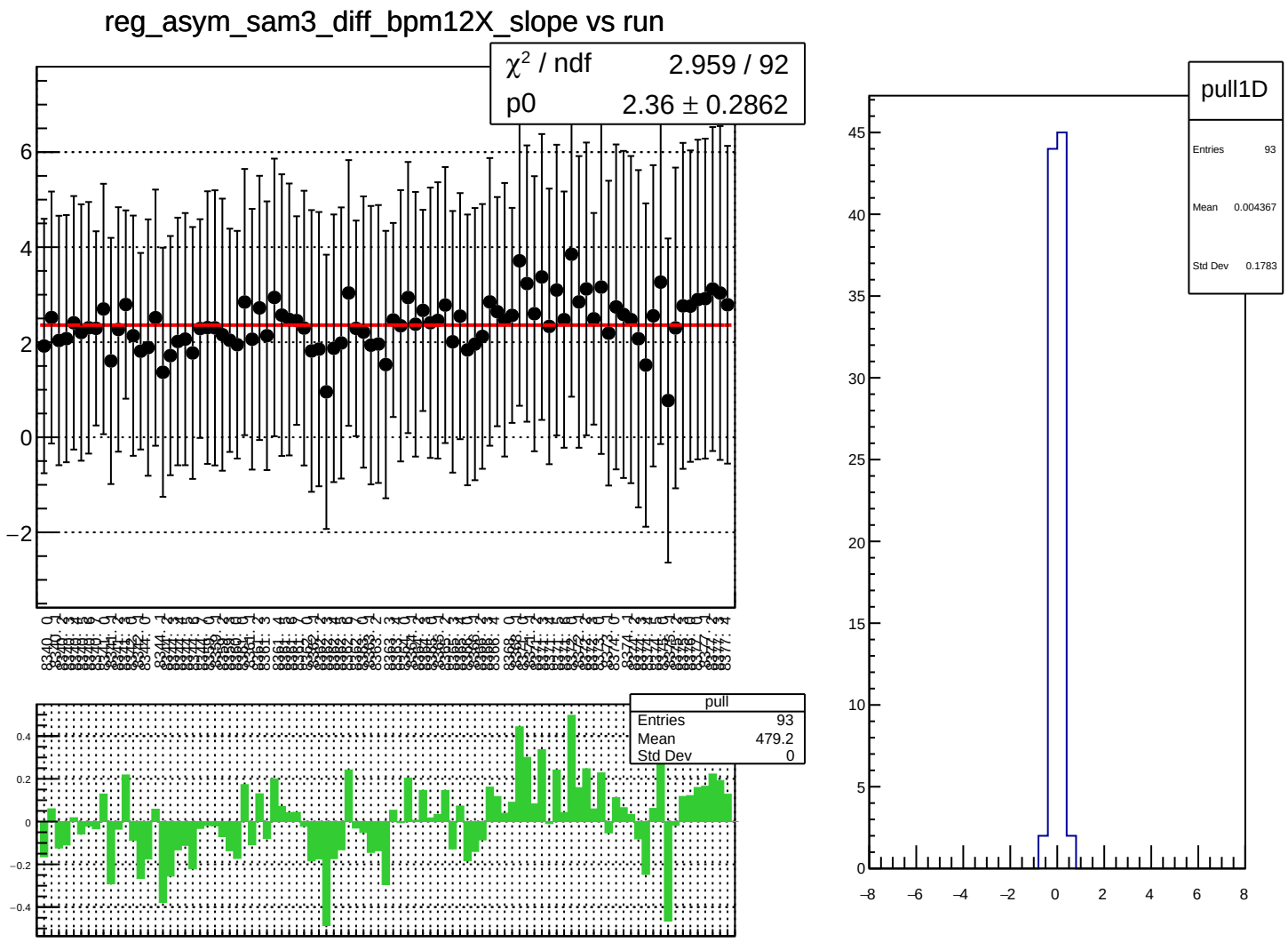

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 1.692 / 92
p0 −1.988 ± 4.624
pull
Entries 93
Mean 248.1
Std Dev 0
pull1D
Entries 93
Mean 0.001587
Std Dev 0.1349

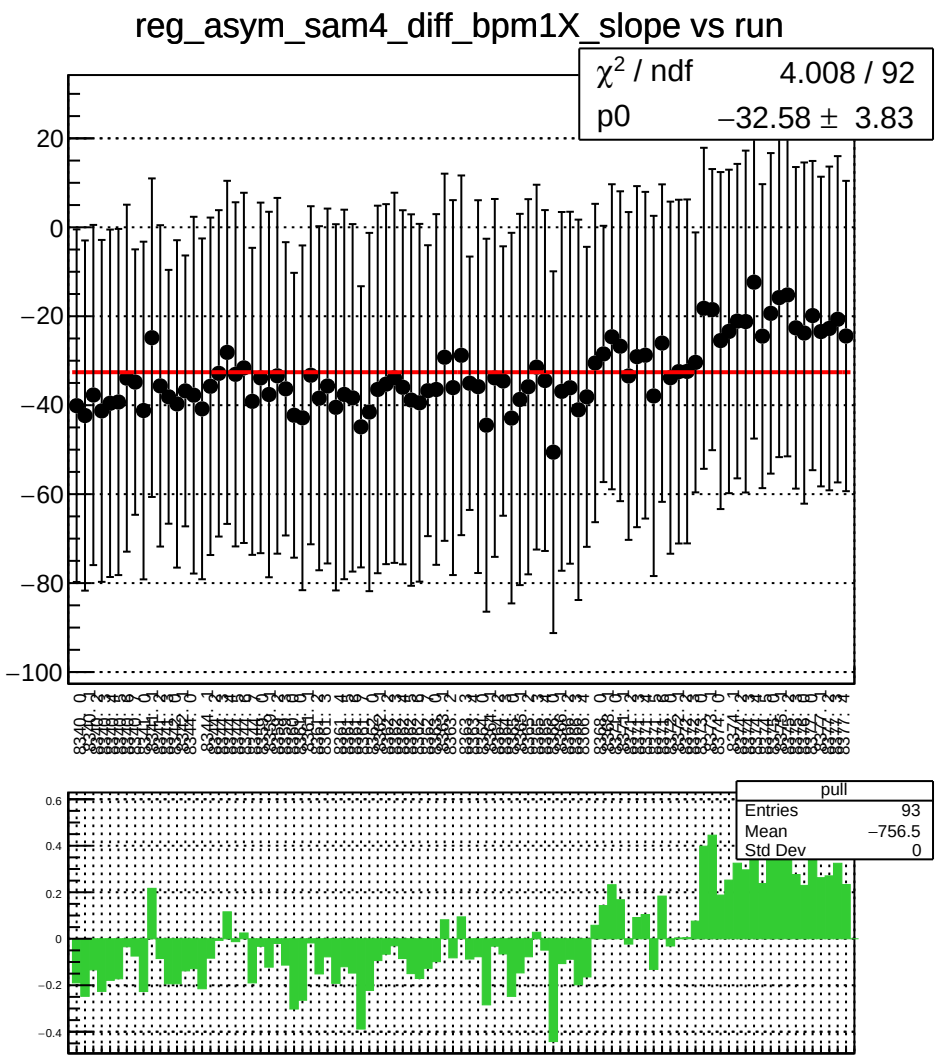

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 3.244 / 92
p0 −97.15 ± 2.67
pull
Entries 93
Mean −2454
Std Dev 0

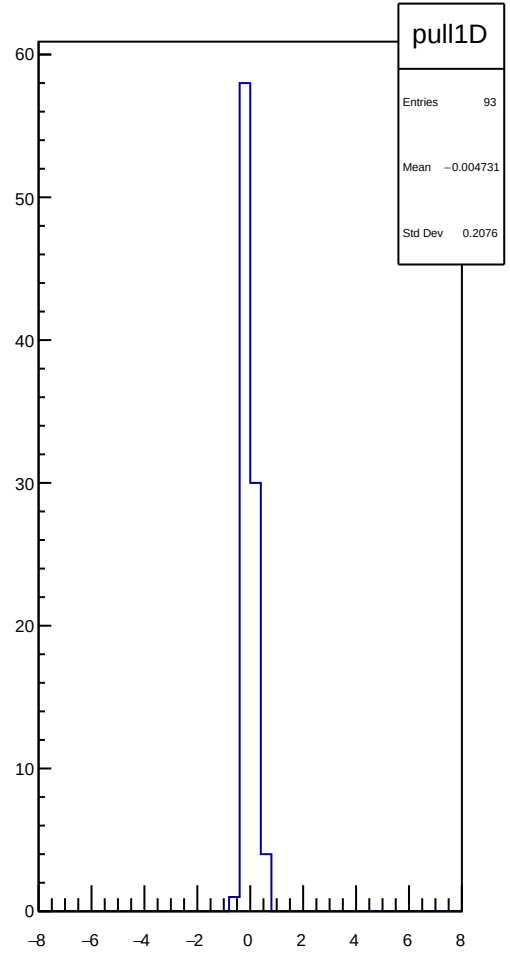

pull1D
Entries 93
Mean 0.00099
Std Dev 0.1868

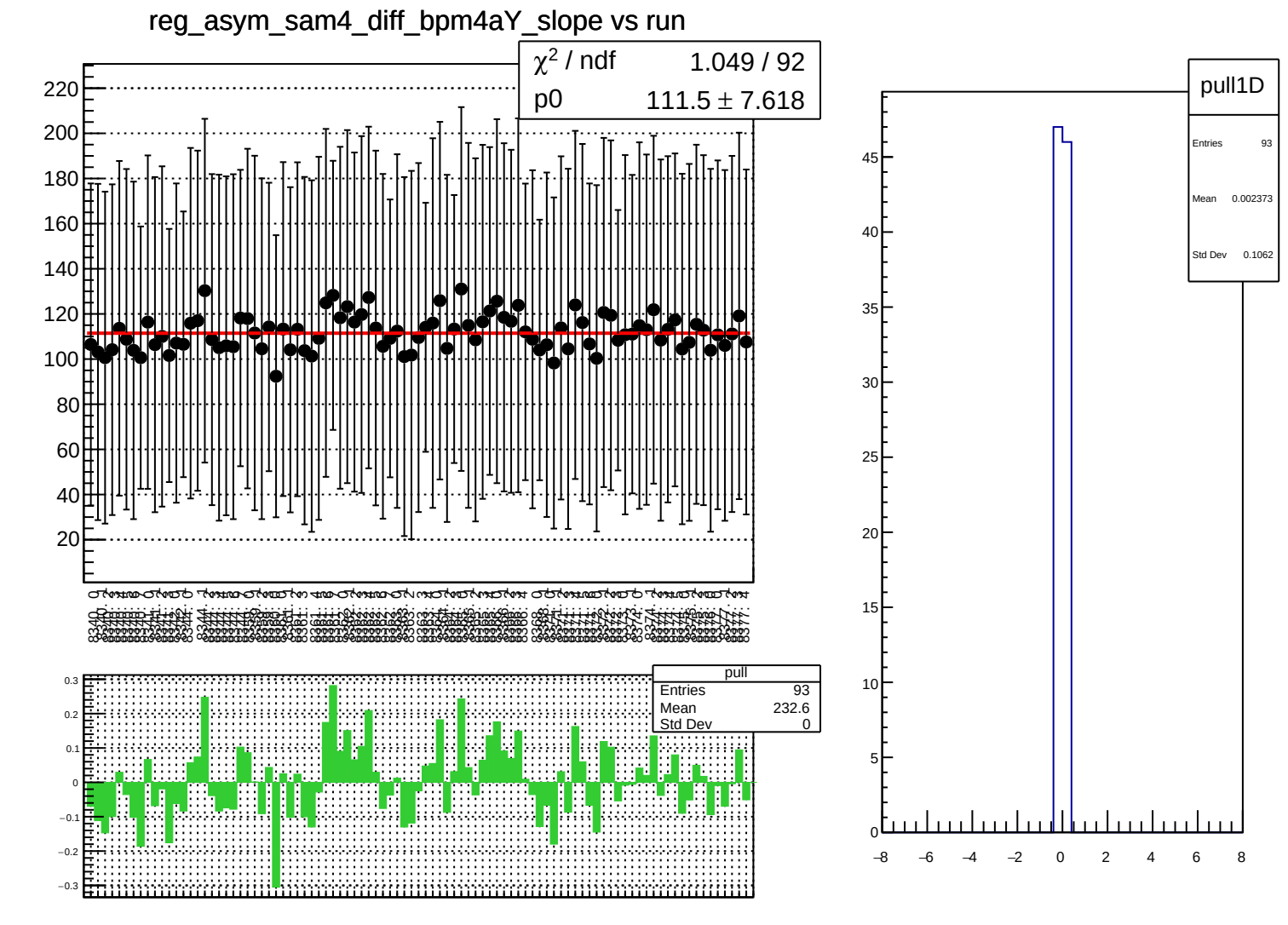

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 1.844 / 92
p0 22.02 ± 4.775
pull
Entries 93
Mean 497.4
Std Dev 0

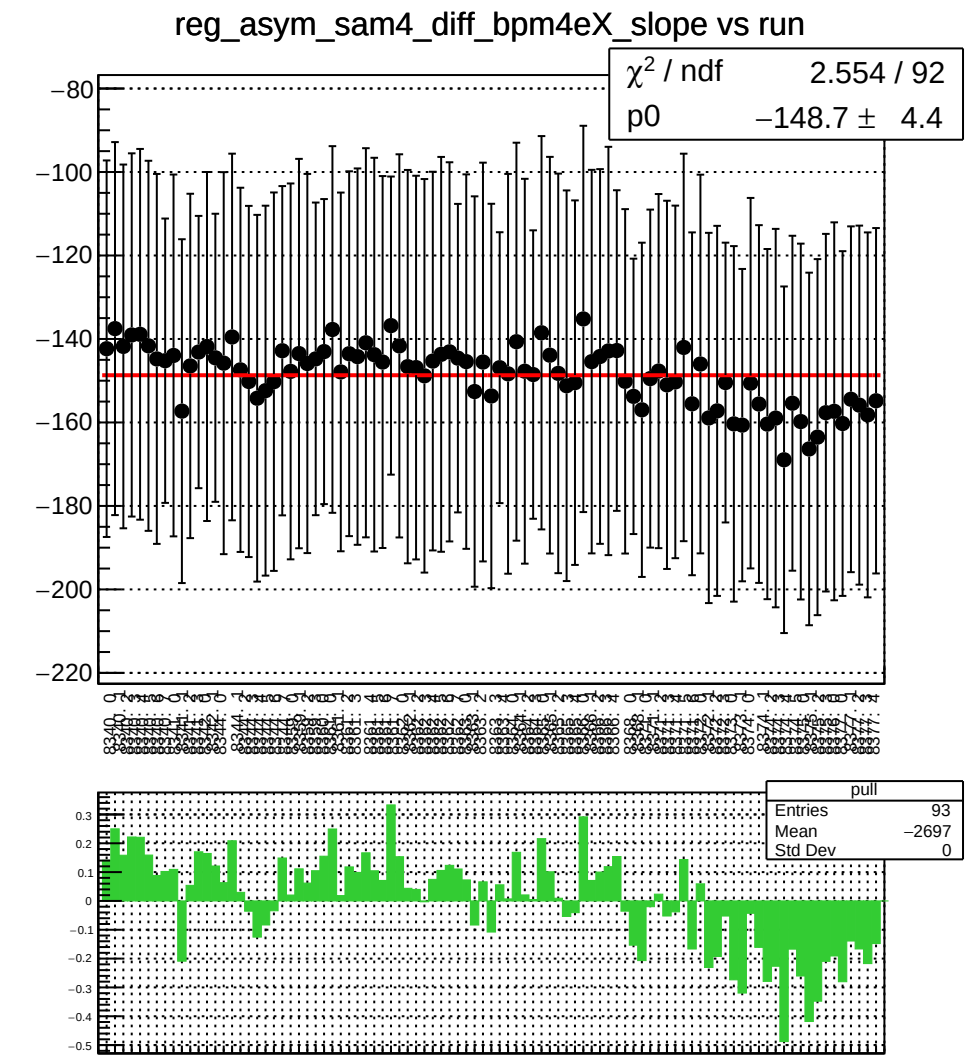

pull1D
Entries 93
Mean −0.001712
Std Dev 0.1408

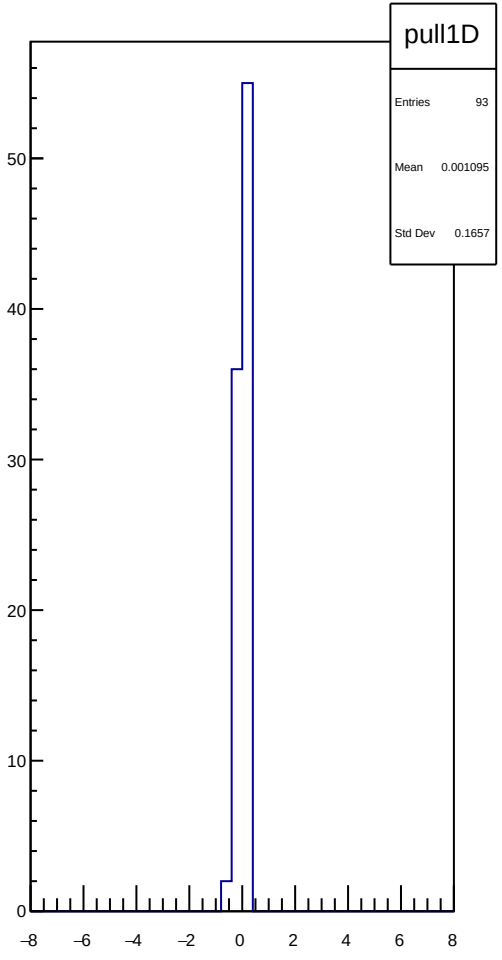

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.959 / 92
p0 2.36 ± 0.2862
pull
Entries 93
Mean 479.2
Std Dev 0
pull1D
Entries 93
Mean 0.004367
Std Dev 0.1783

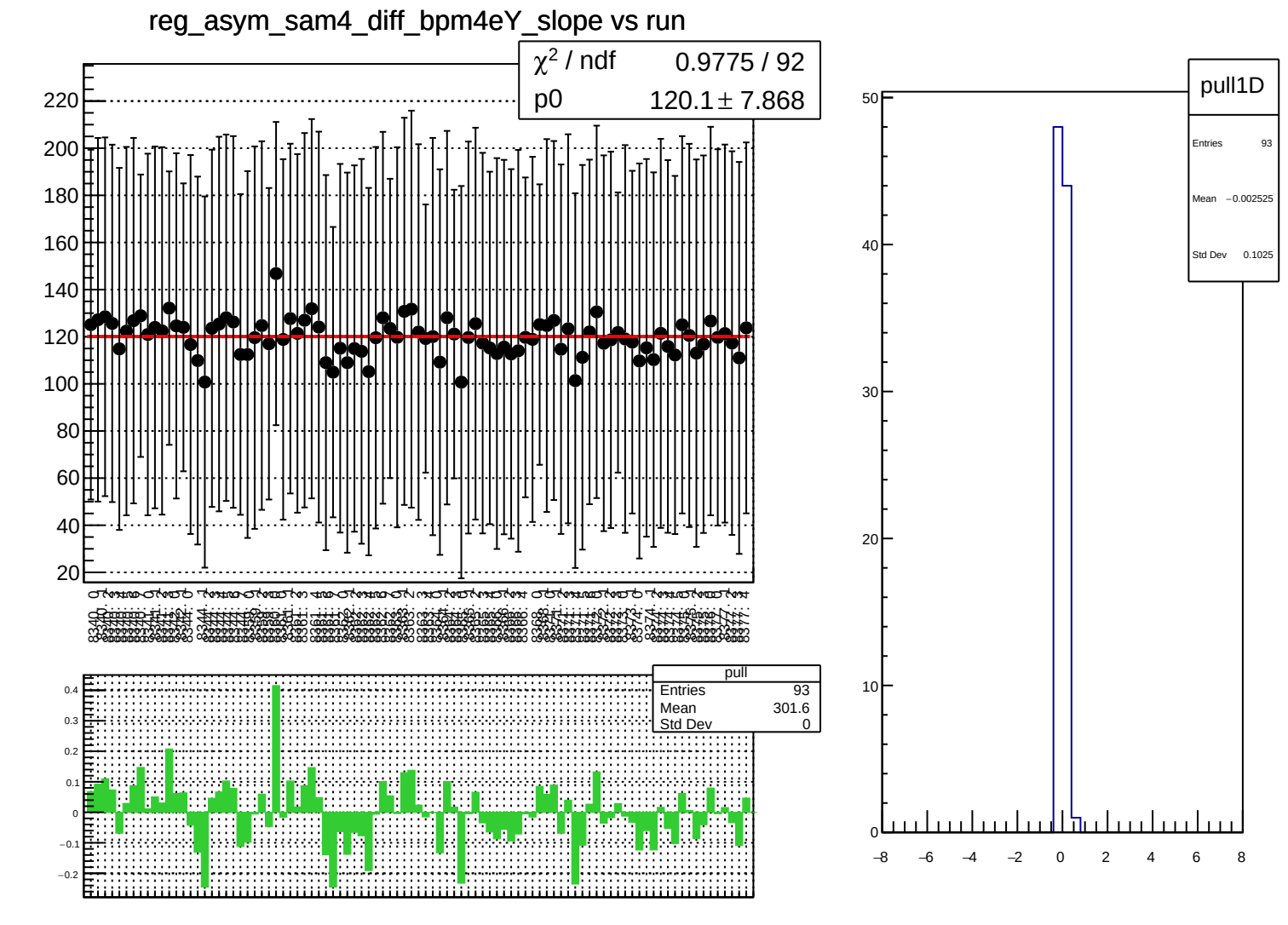

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.008 / 92
p0 −32.58 ± 3.83
pull
Entries 93
Mean −756.5
Std Dev 0

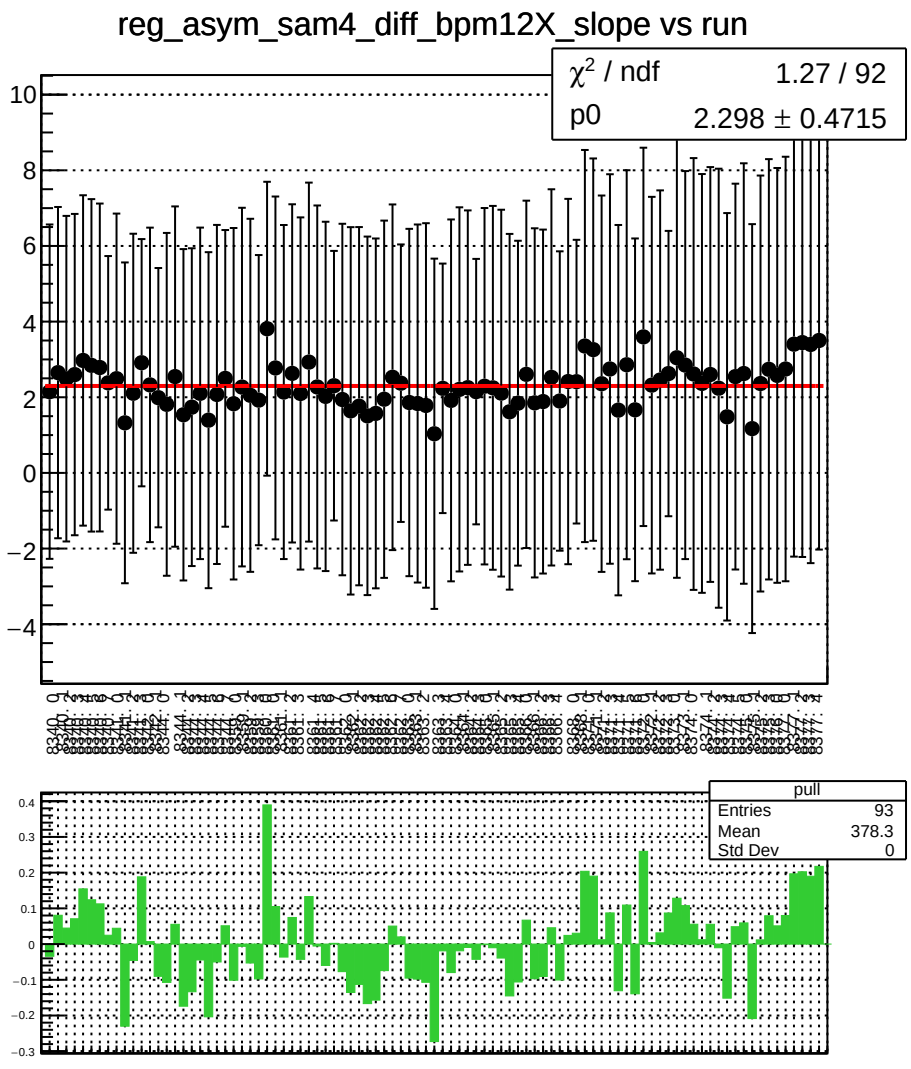

pull1D
Entries 93
Mean −0.004731
Std Dev 0.2076

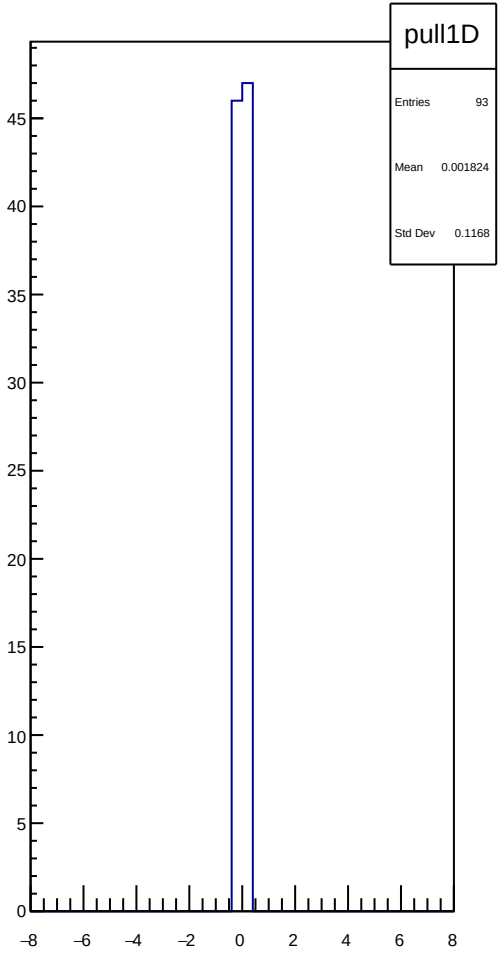

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 1.049 / 92
p0 111.5 ± 7.618
pull
Entries 93
Mean 232.6
Std Dev 0
pull1D
Entries 93
Mean 0.002373
Std Dev 0.1062

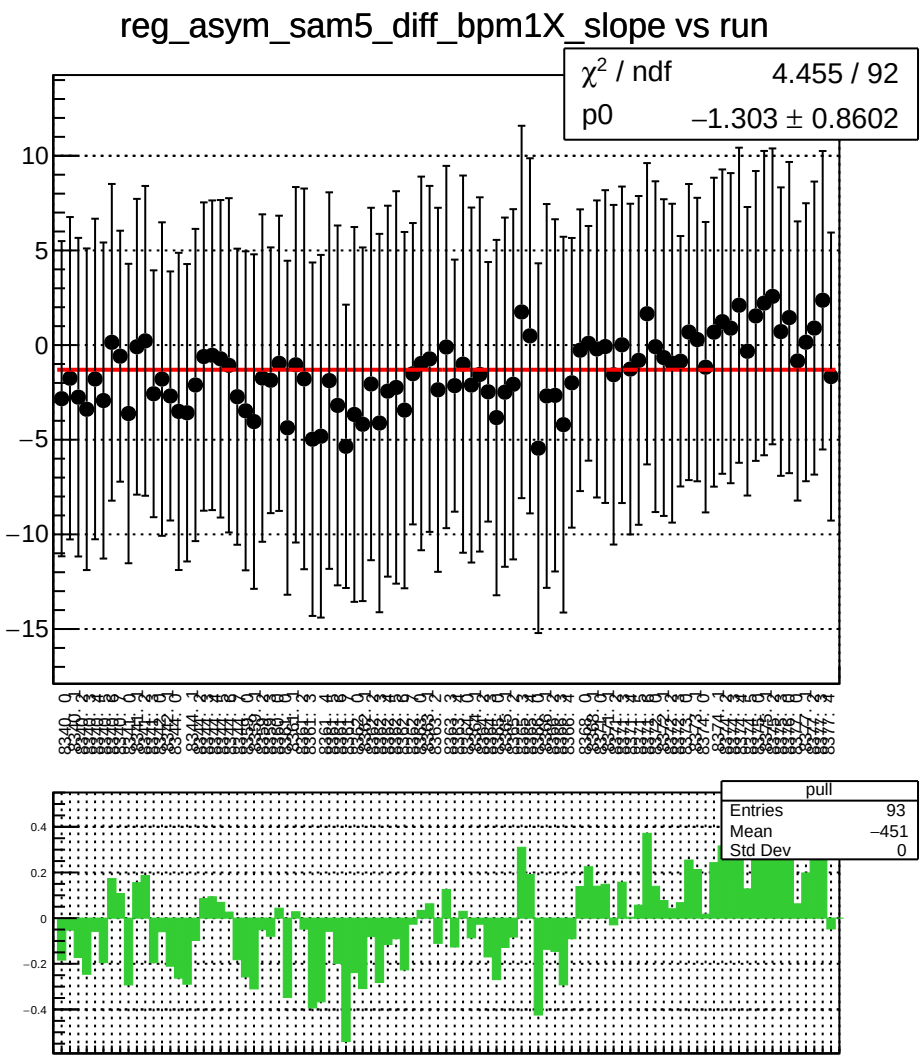

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.554 / 92
p0 −148.7 ± 4.4
pull
Entries 93
Mean −2697
Std Dev 0

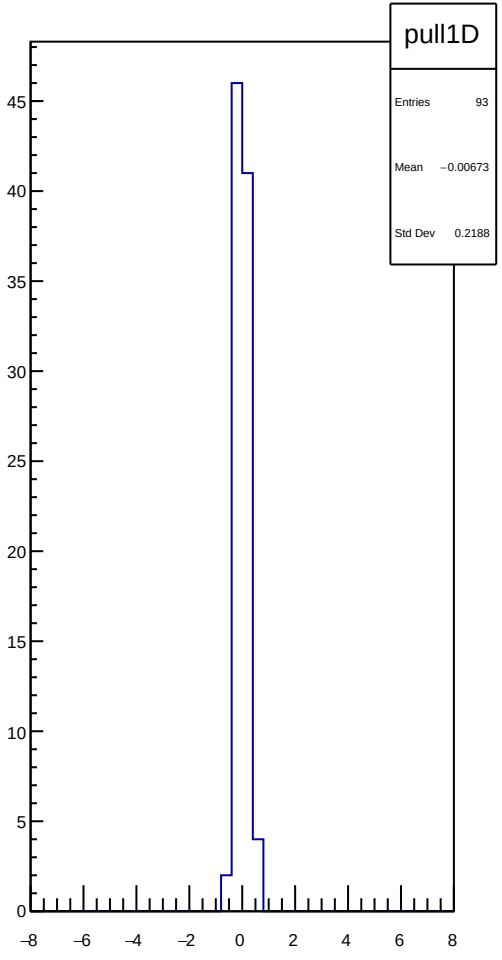

pull1D
Entries 93
Mean 0.001095
Std Dev 0.1657

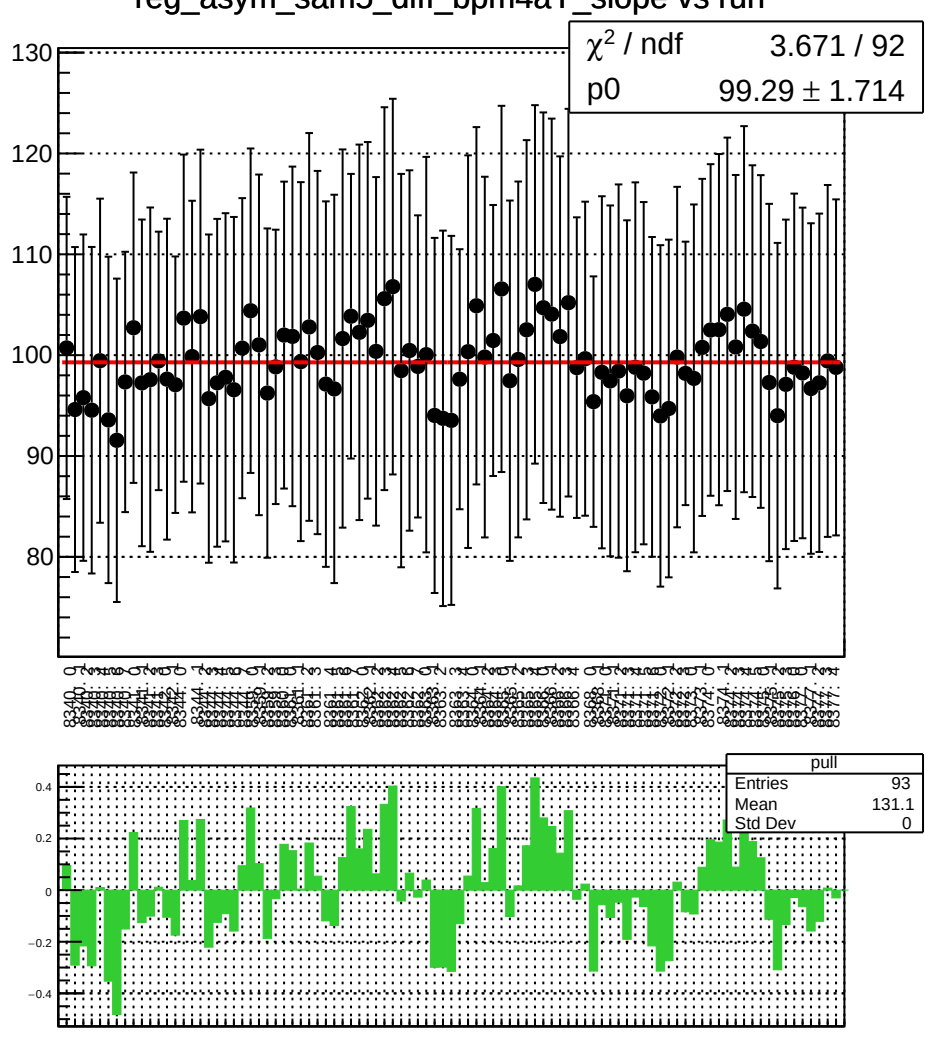

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 0.9775 / 92
p0 120.1 ± 7.868
pull
Entries 93
Mean 301.6
Std Dev 0
pull1D
Entries 93
Mean −0.002525
Std Dev 0.1025

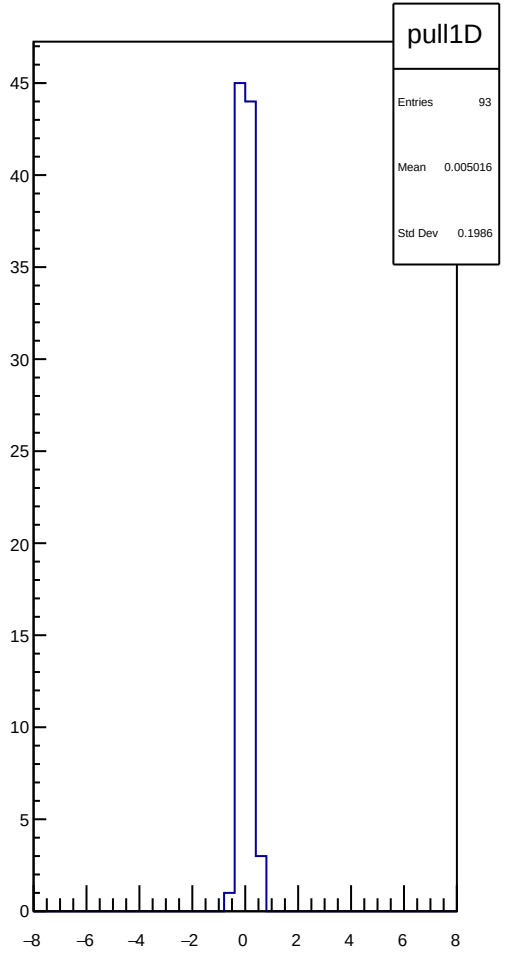

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 1.27 / 92
p0 2.298 ± 0.4715
pull
Entries 93
Mean 378.3
Std Dev 0

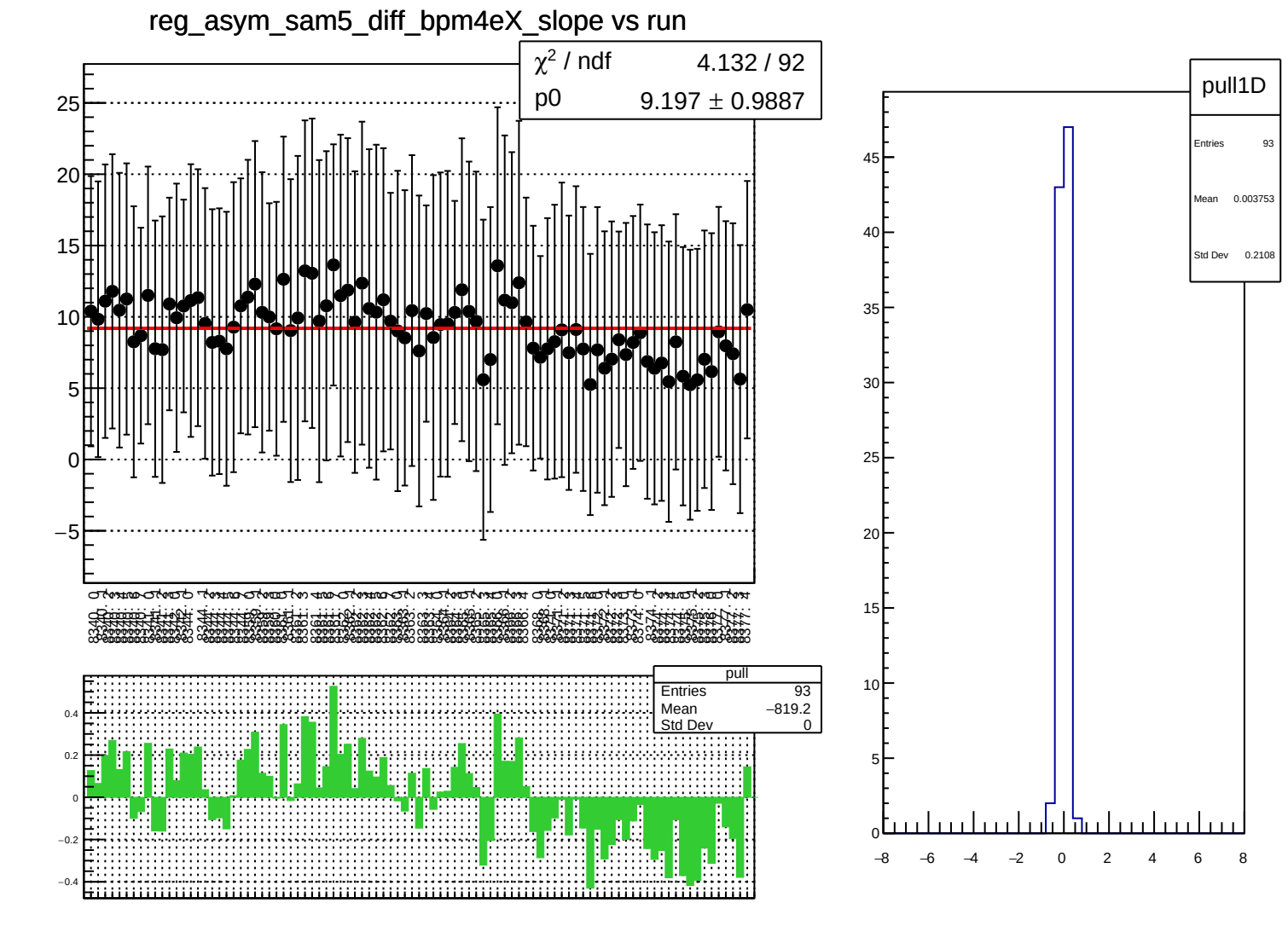

pull1D
Entries 93
Mean 0.001824
Std Dev 0.1168

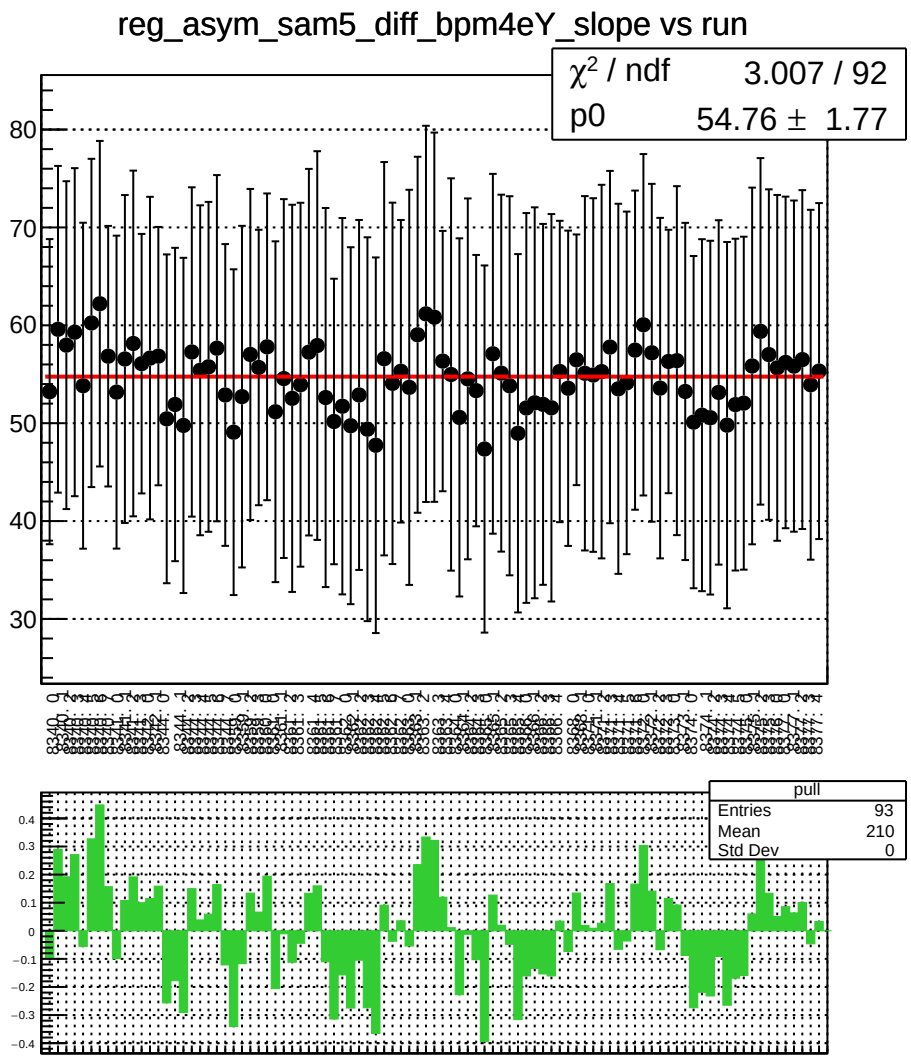

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 4.455 / 92
p0 −1.303 ± 0.8602
pull
Entries 93
Mean −451
Std Dev 0

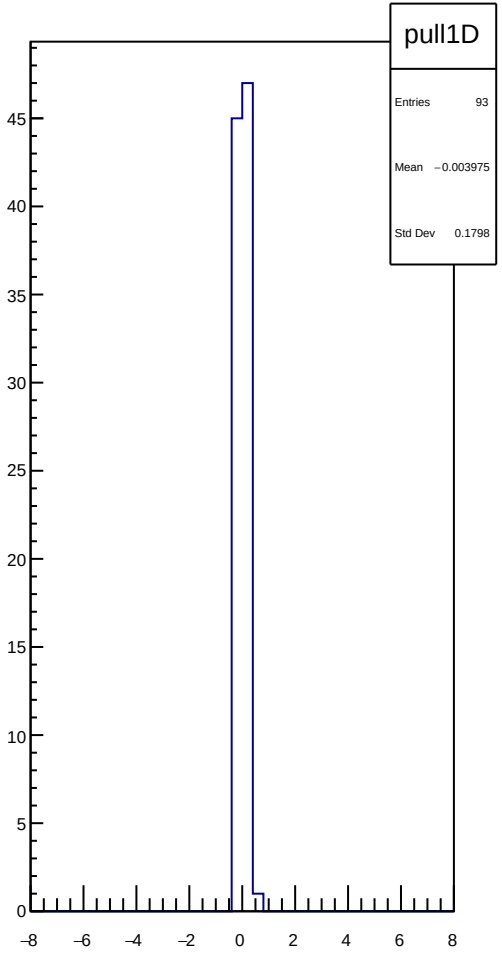

pull1D
Entries 93
Mean −0.00673
Std Dev 0.2188

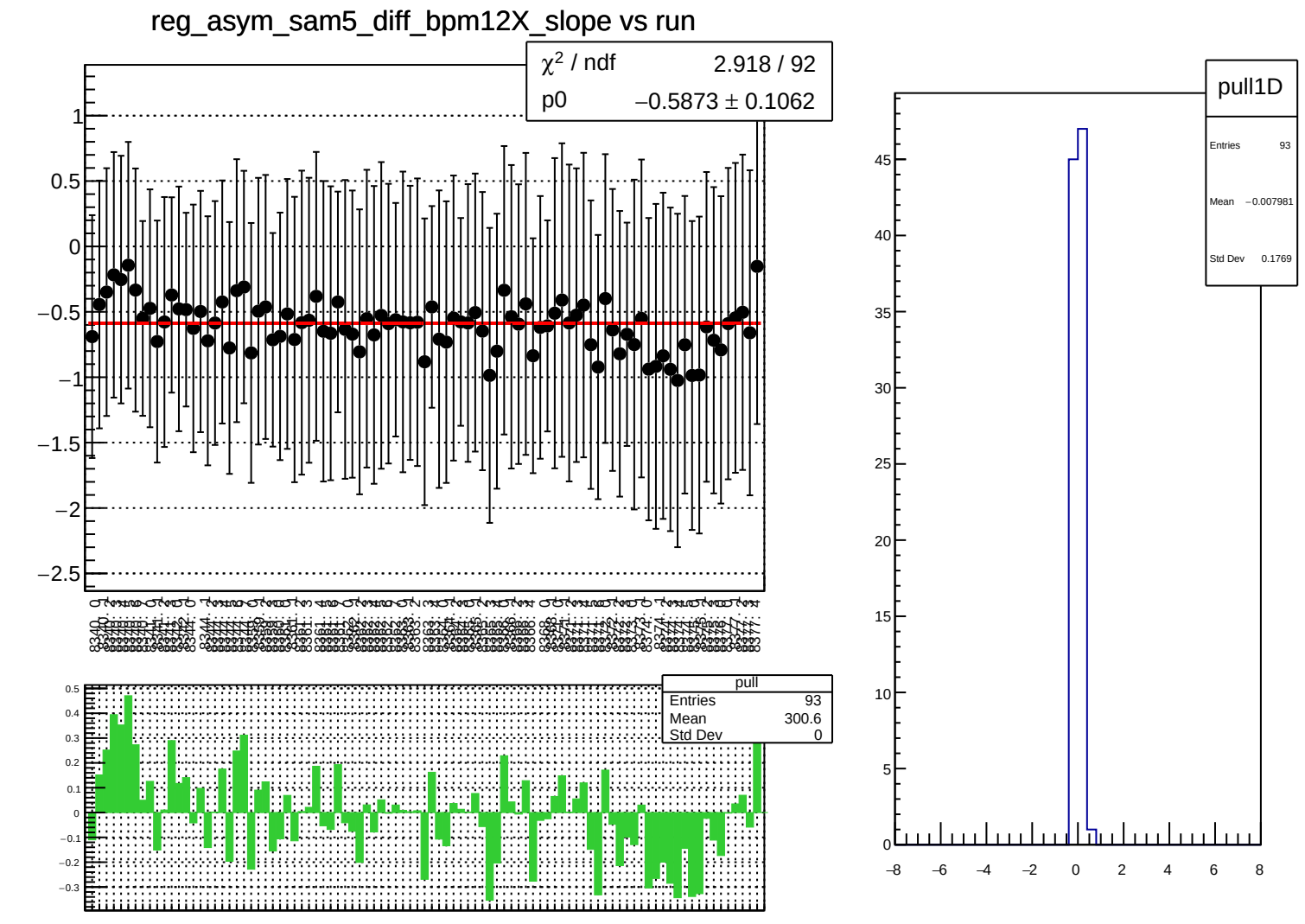

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 3.671 / 92
p0 99.29 ± 1.714
130
120
110
100
90
80
pull
Entries 93
Mean 131.1
Std Dev 0
0.4
0.2
0
−0.2
−0.4

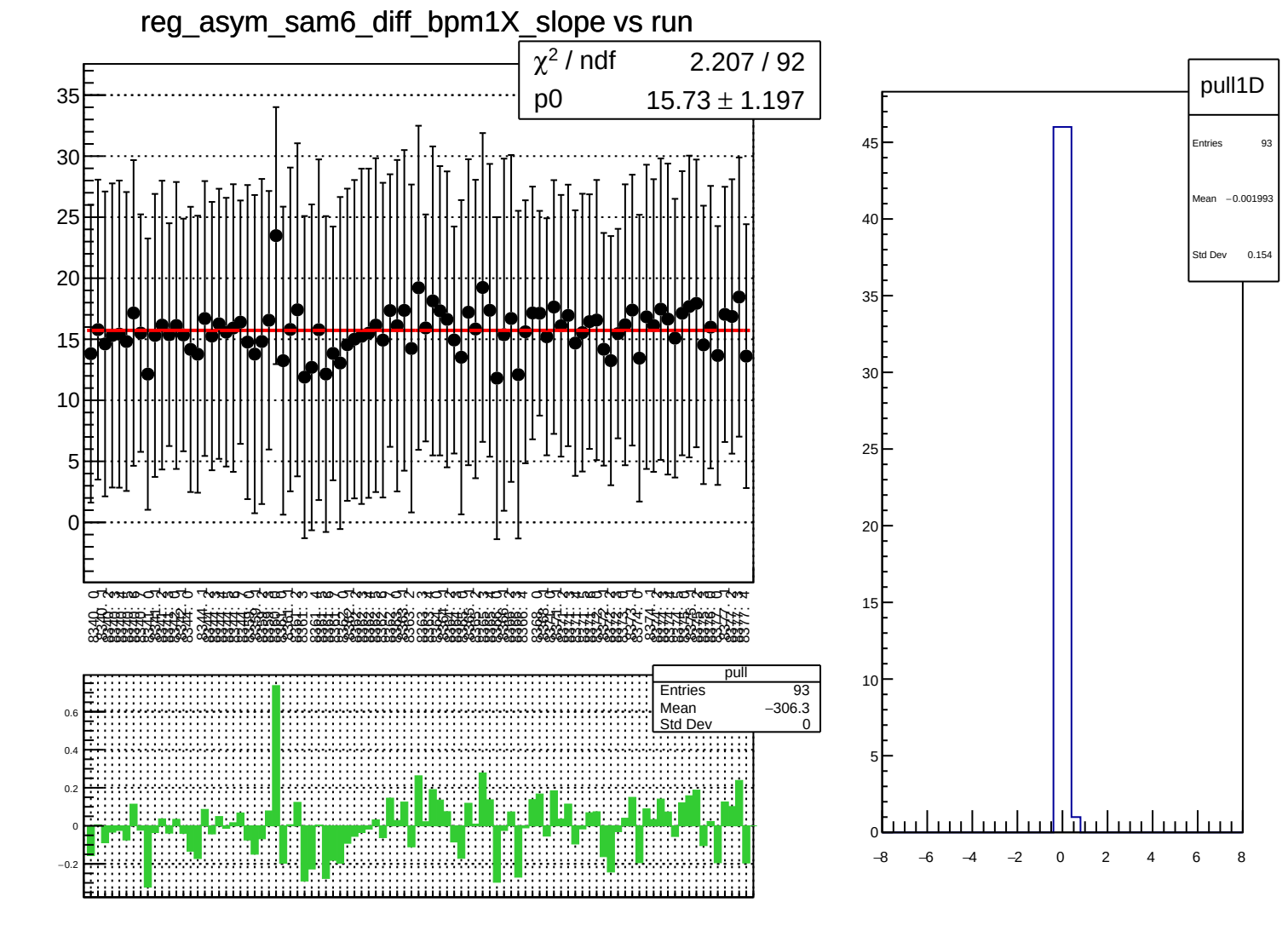

pull1D
Entries 93
Mean 0.005016
Std Dev 0.1986
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

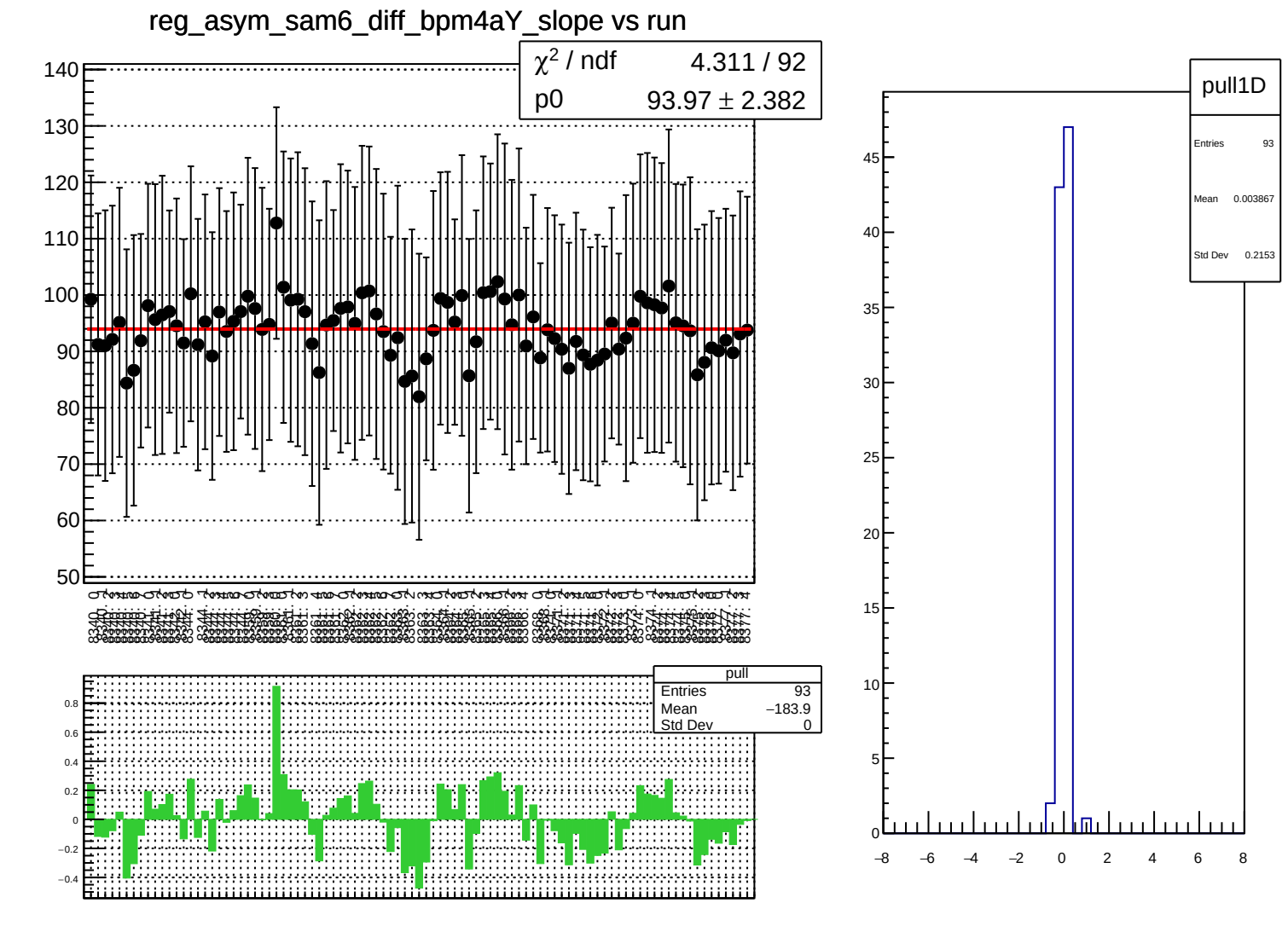

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 4.132 / 92
p0 9.197 ± 0.9887
pull
Entries 93
Mean −819.2
Std Dev 0
pull1D
Entries 93
Mean 0.003753
Std Dev 0.2108

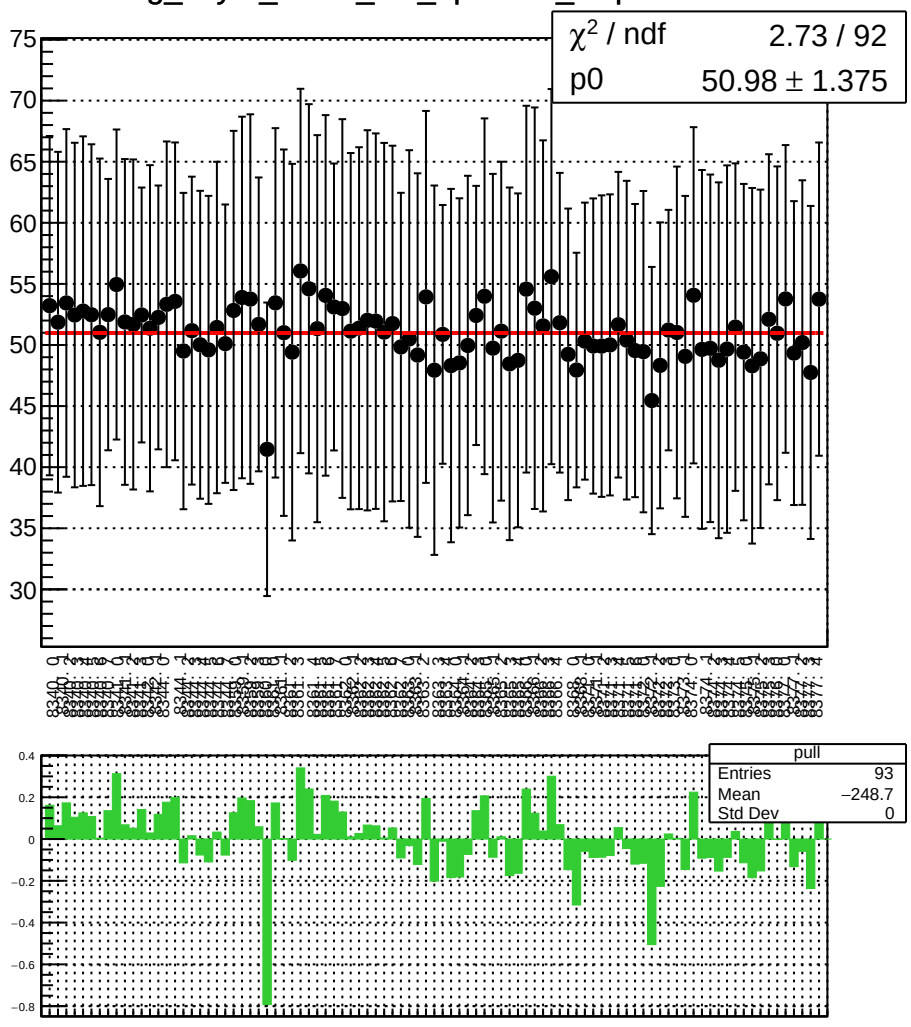

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 3.007 / 92
p0 54.76 ± 1.77
pull
Entries 93
Mean 210
Std Dev 0

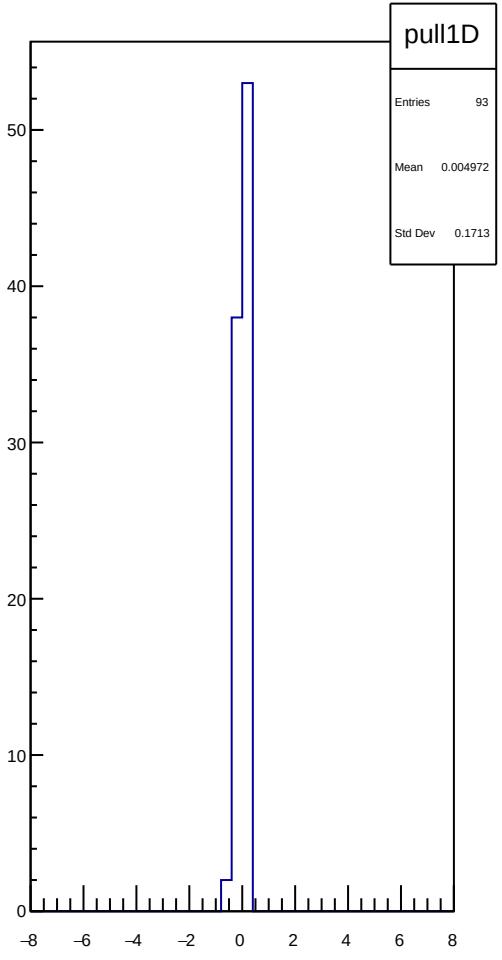

pull1D
Entries 93
Mean −0.003975
Std Dev 0.1798

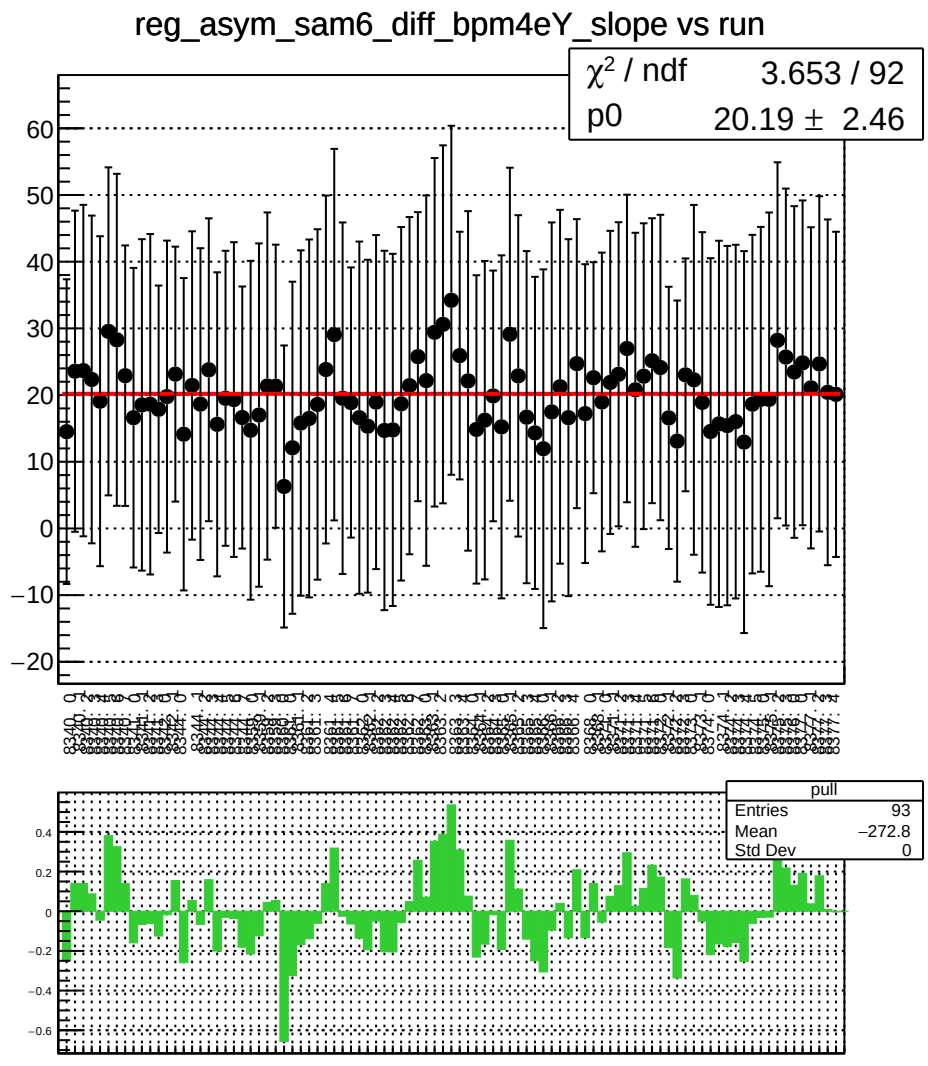

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 2.918 / 92
p0 −0.5873 ± 0.1062
pull
Entries 93
Mean 300.6
Std Dev 0
pull1D
Entries 93
Mean −0.007981
Std Dev 0.1769

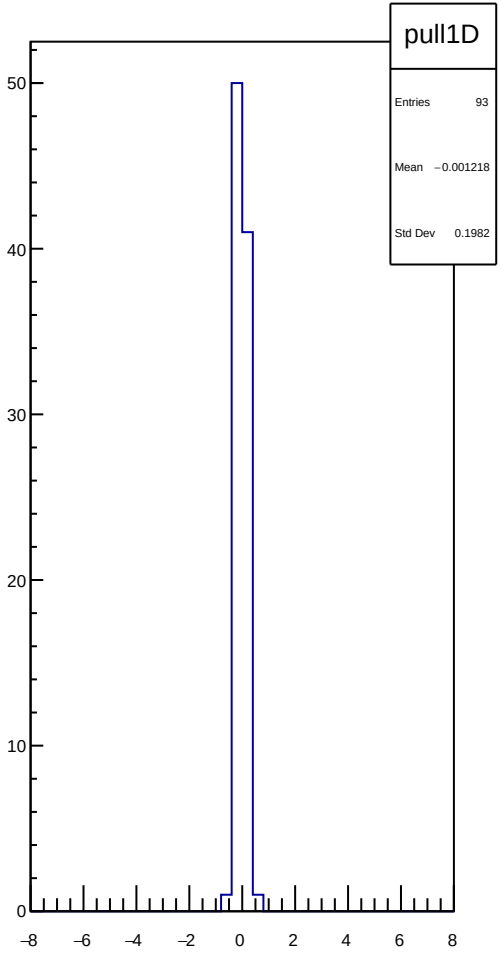

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 2.207 / 92
p0 15.73 ± 1.197
pull
Entries 93
Mean −306.3
Std Dev 0
pull1D
Entries 93
Mean −0.001993
Std Dev 0.154

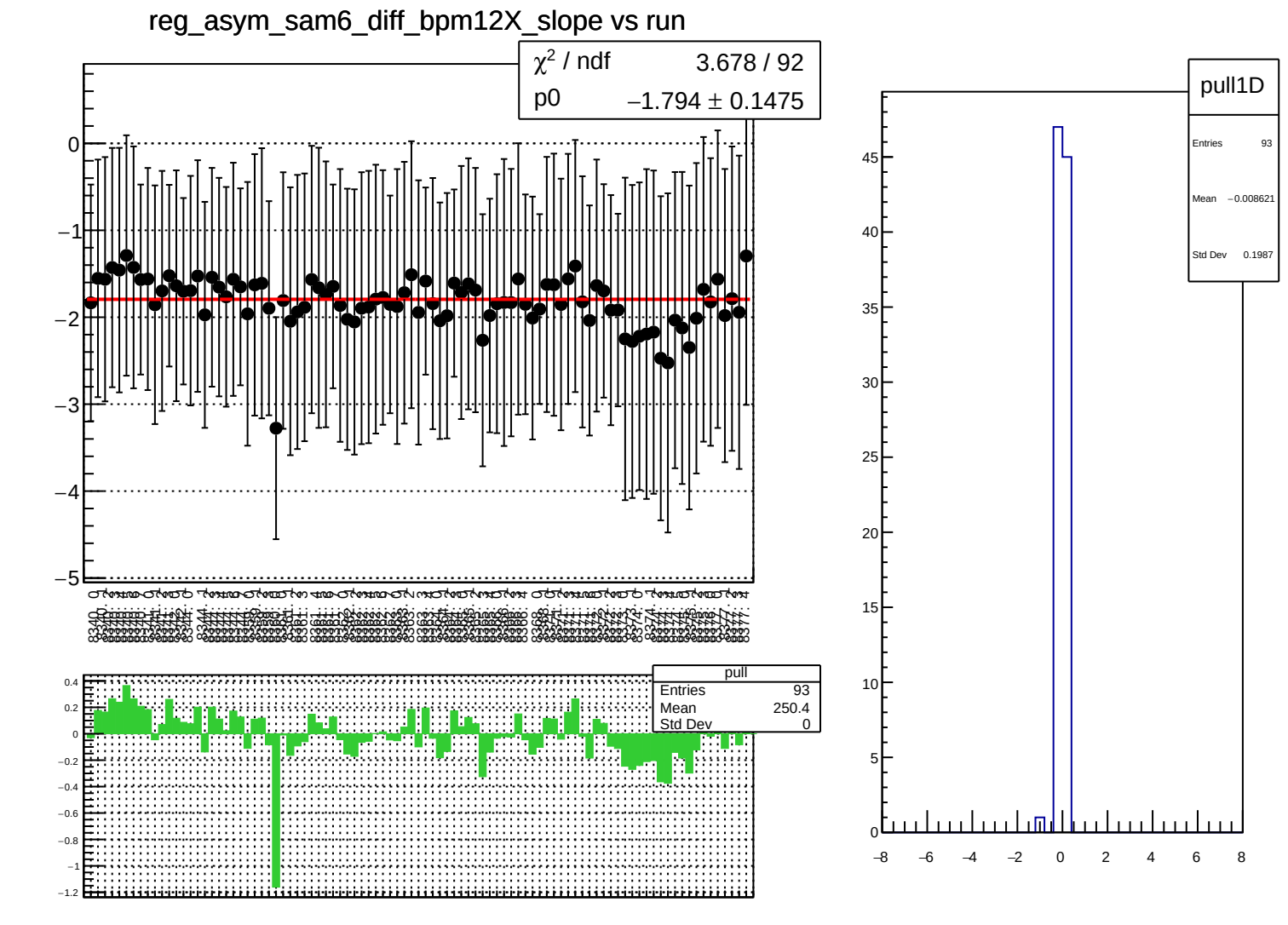

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 4.311 / 92
p0 93.97 ± 2.382
pull
Entries 93
Mean −183.9
Std Dev 0
pull1D
Entries 93
Mean 0.003867
Std Dev 0.2153

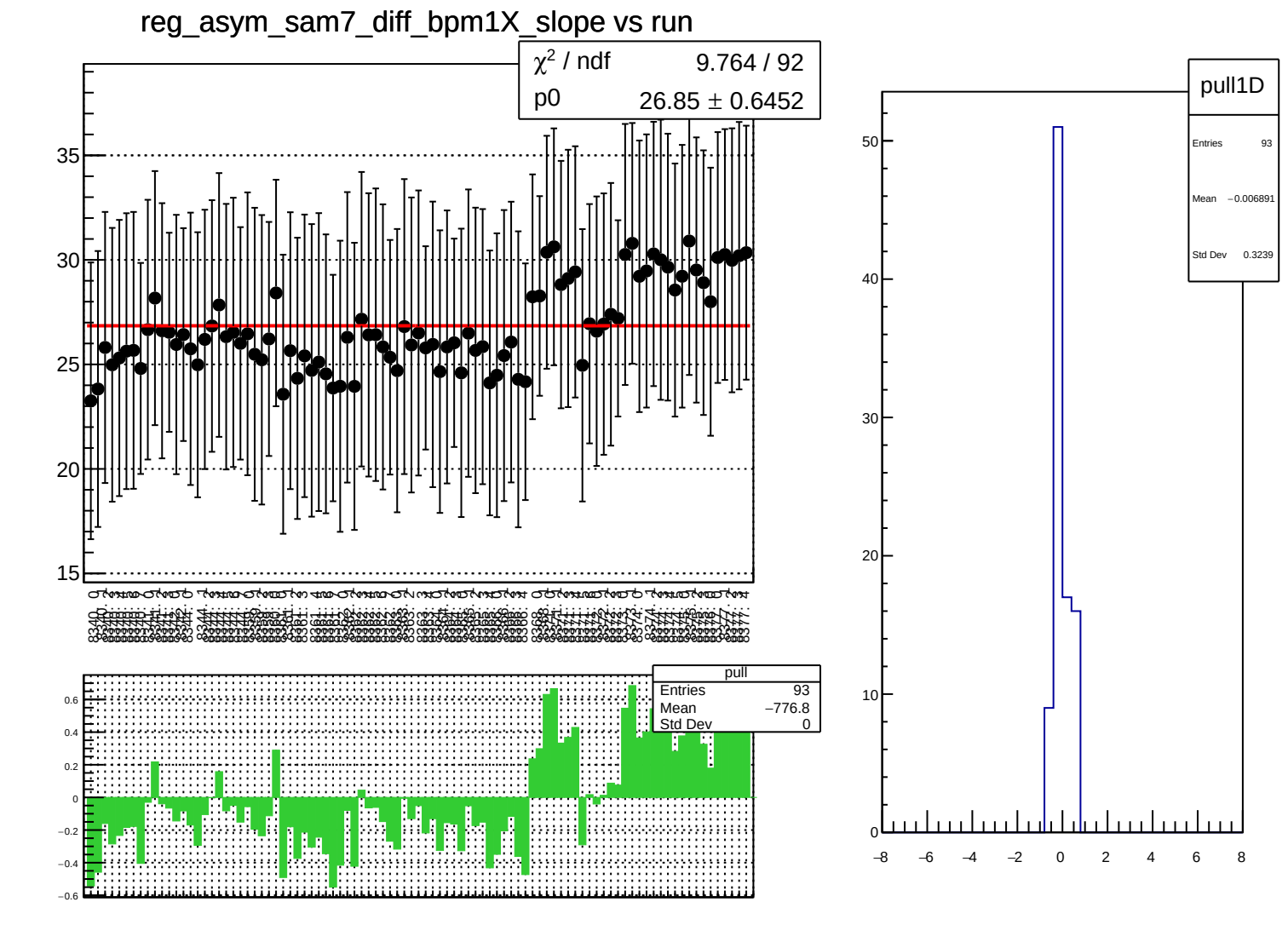

reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 2.73 / 92
p0 50.98 ± 1.375
pull
Entries 93
Mean −248.7
Std Dev 0

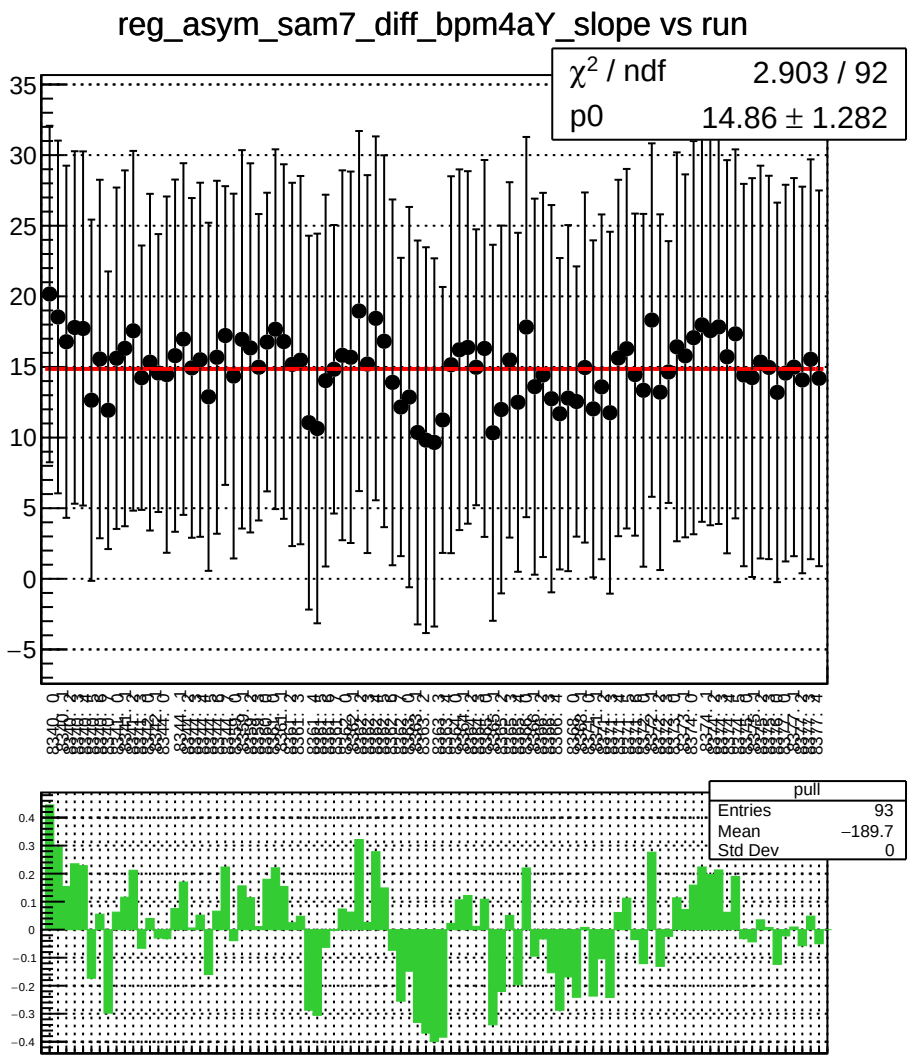

pull1D
Entries 93
Mean 0.004972
Std Dev 0.1713

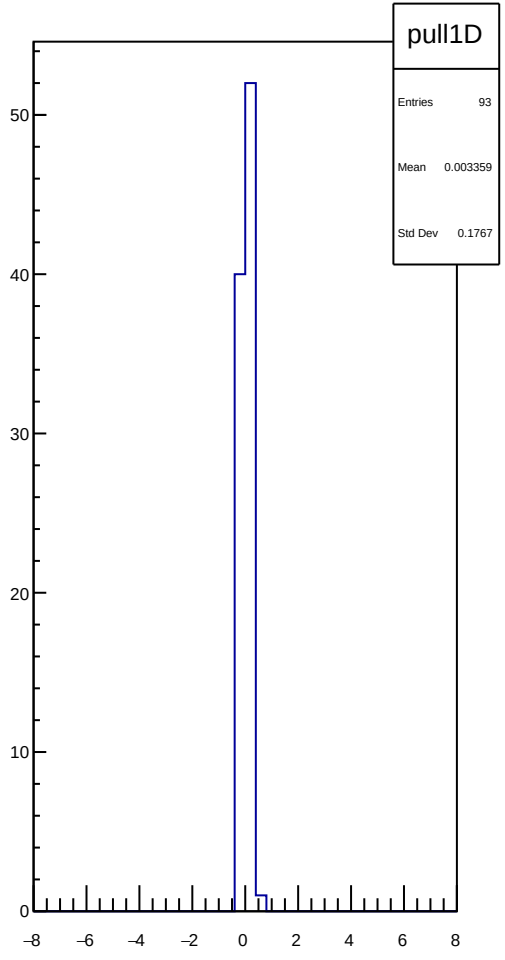

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 3.653 / 92
p0 20.19 ± 2.46
pull
Entries 93
Mean −272.8
Std Dev 0

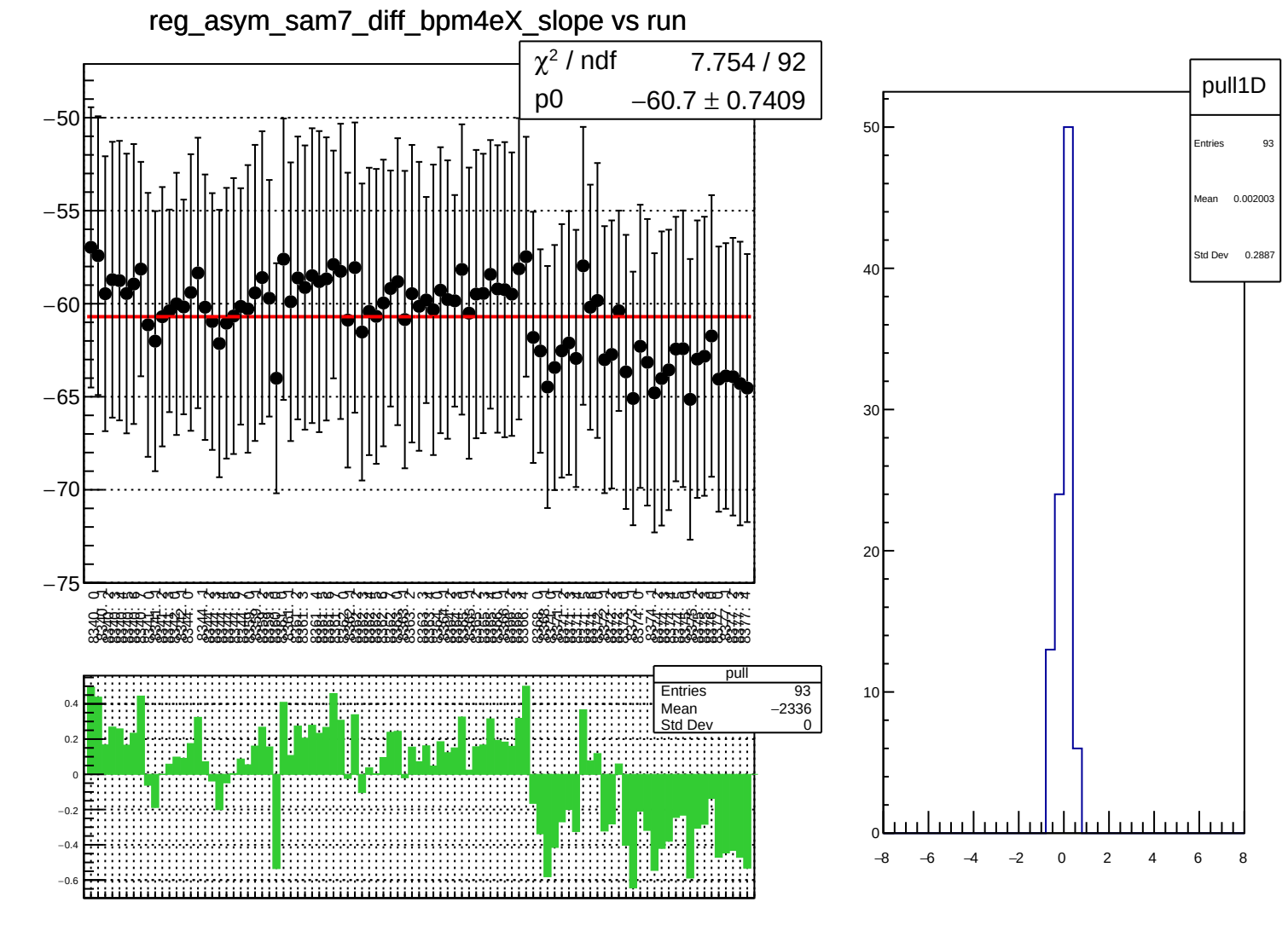

pull1D
Entries 93
Mean −0.001218
Std Dev 0.1982

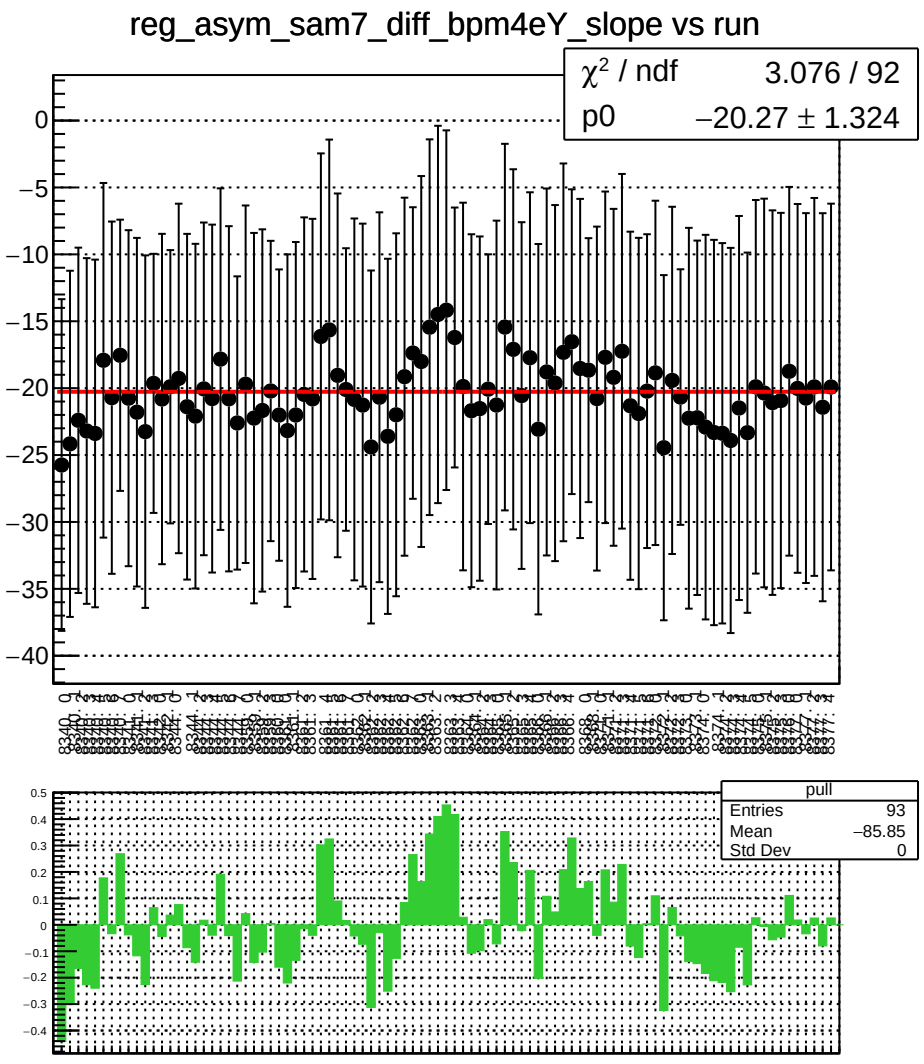

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 3.678 / 92
p0 −1.794 ± 0.1475
pull
Entries 93
Mean 250.4
Std Dev 0
pull1D
Entries 93
Mean −0.008621
Std Dev 0.1987

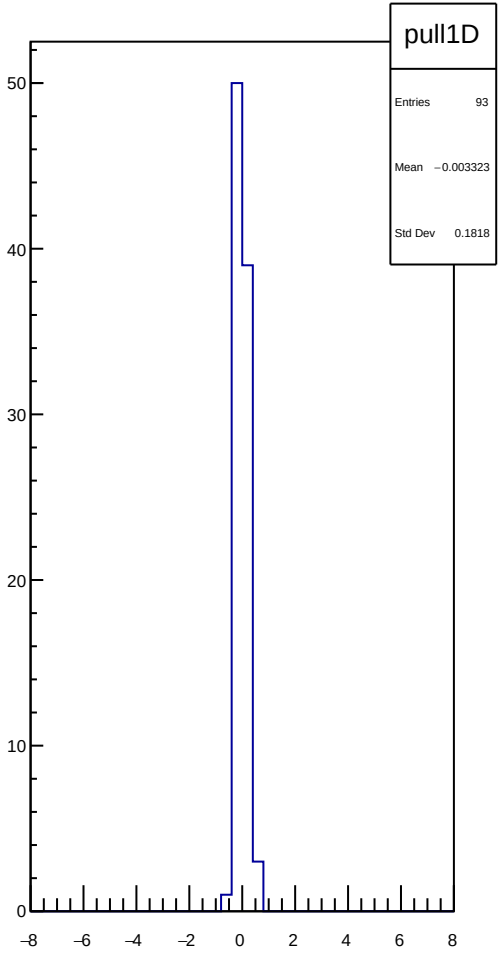

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 9.764 / 92
p0 26.85 ± 0.6452
pull
Entries 93
Mean −776.8
Std Dev 0
pull1D
Entries 93
Mean −0.006891
Std Dev 0.3239

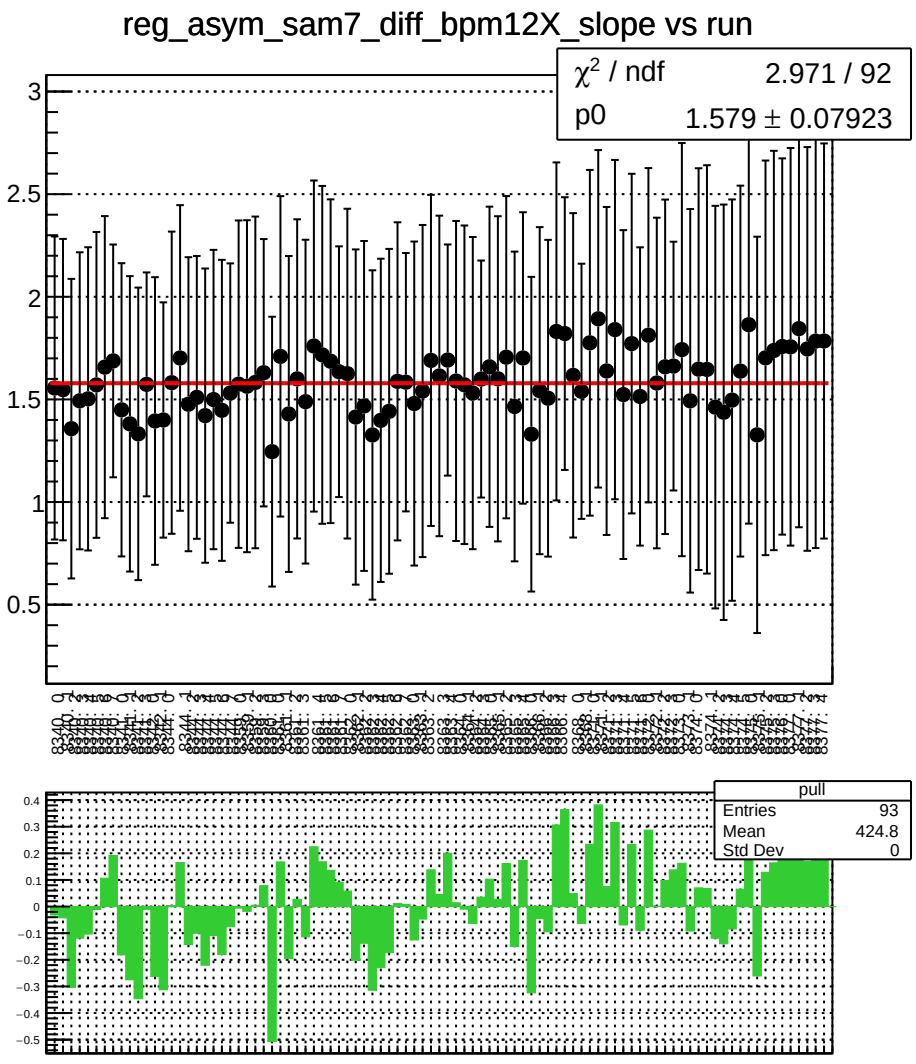

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.903 / 92
p0 14.86 ± 1.282
pull
Entries 93
Mean −189.7
Std Dev 0

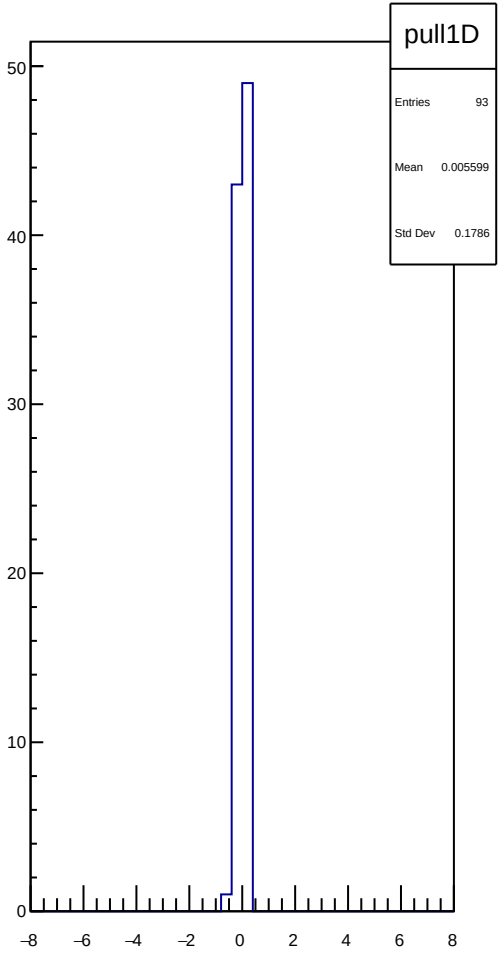

pull1D
Entries 93
Mean 0.003359
Std Dev 0.1767

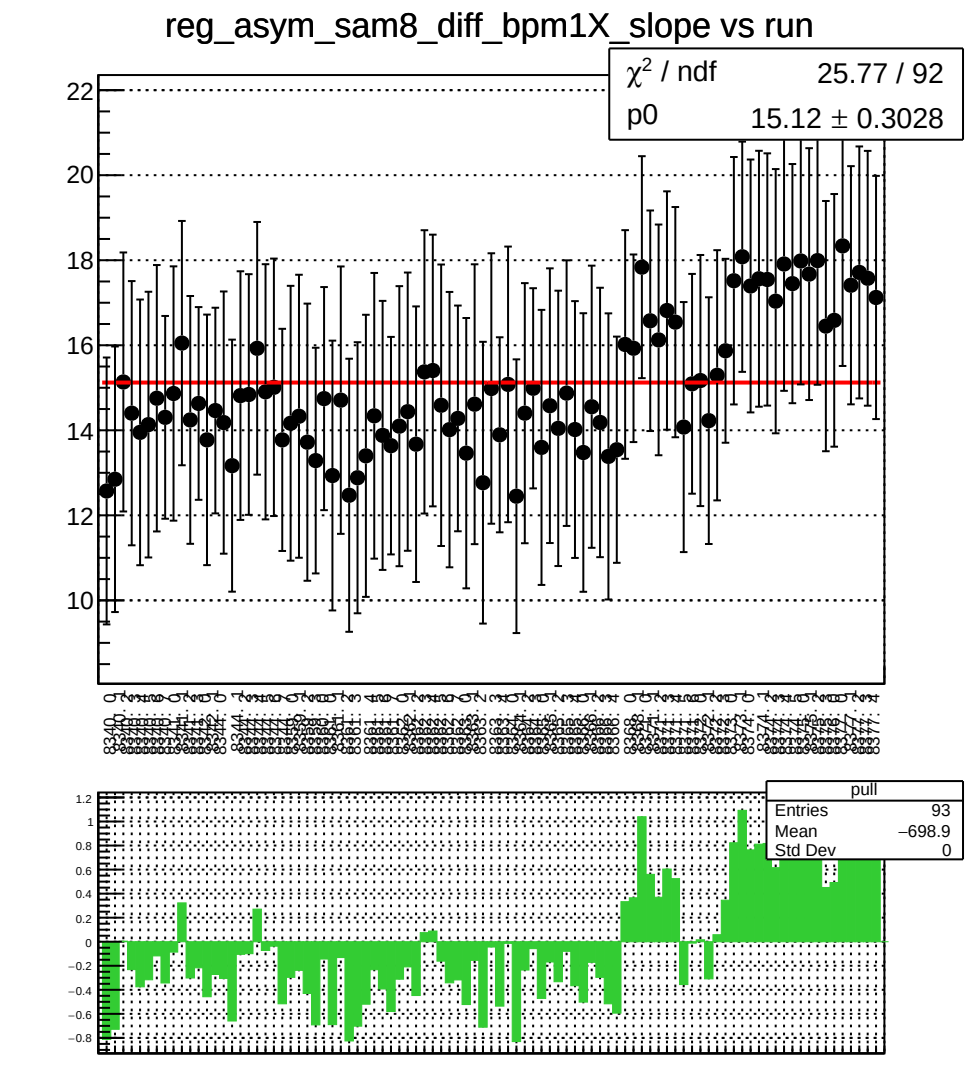

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 7.754 / 92
p0 −60.7 ± 0.7409
−50
−55
−60
−65
−70
−75
pull
Entries 93
Mean −2336
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.002003
Std Dev 0.2887
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

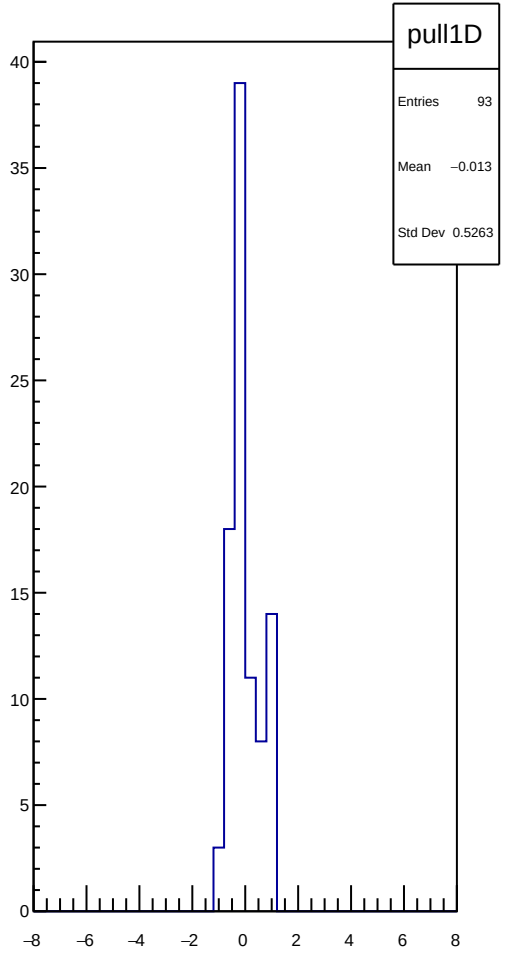

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 3.076 / 92
p0 −20.27 ± 1.324
pull
Entries 93
Mean −85.85
Std Dev 0

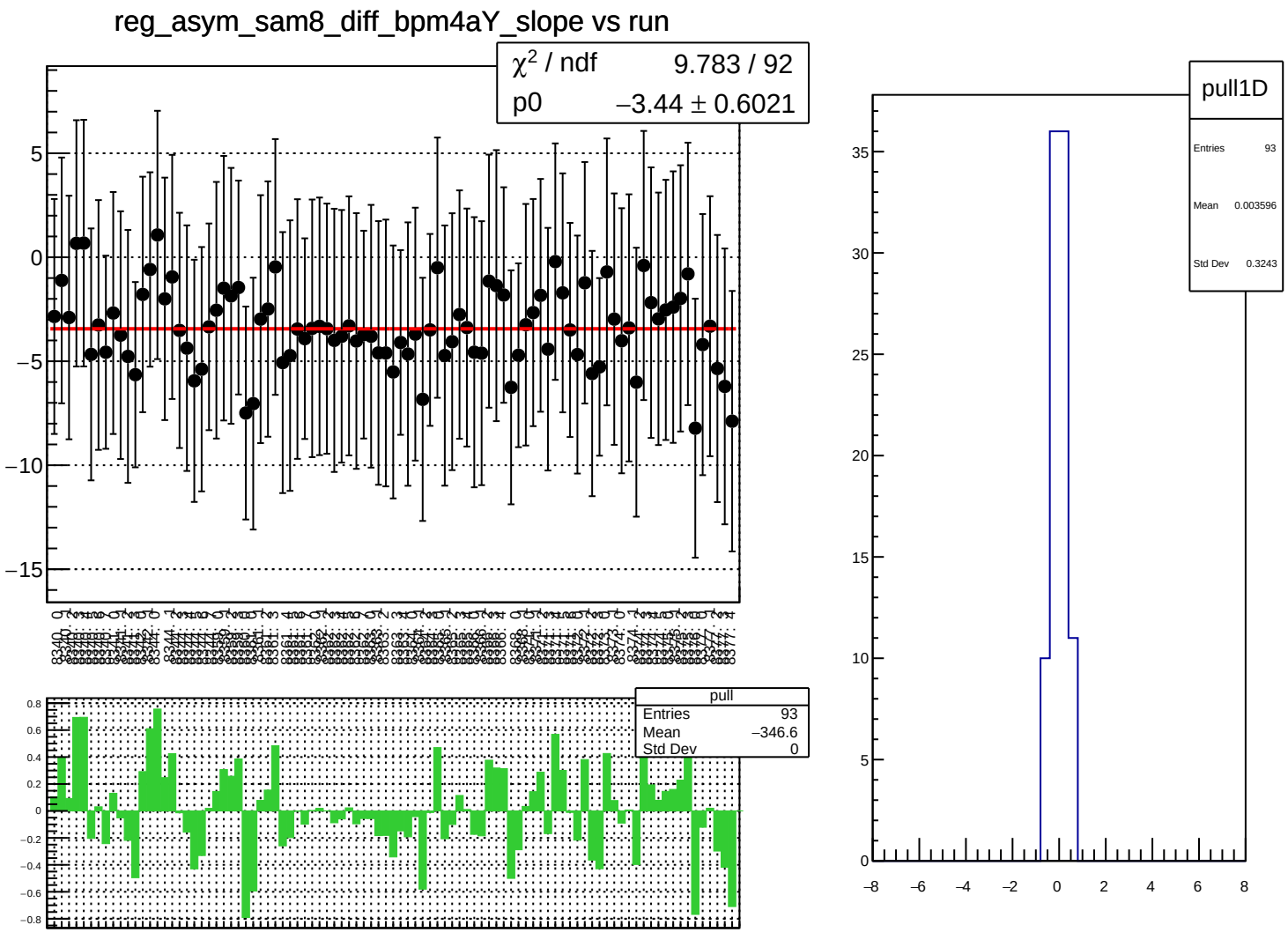

pull1D
Entries 93
Mean −0.003323
Std Dev 0.1818

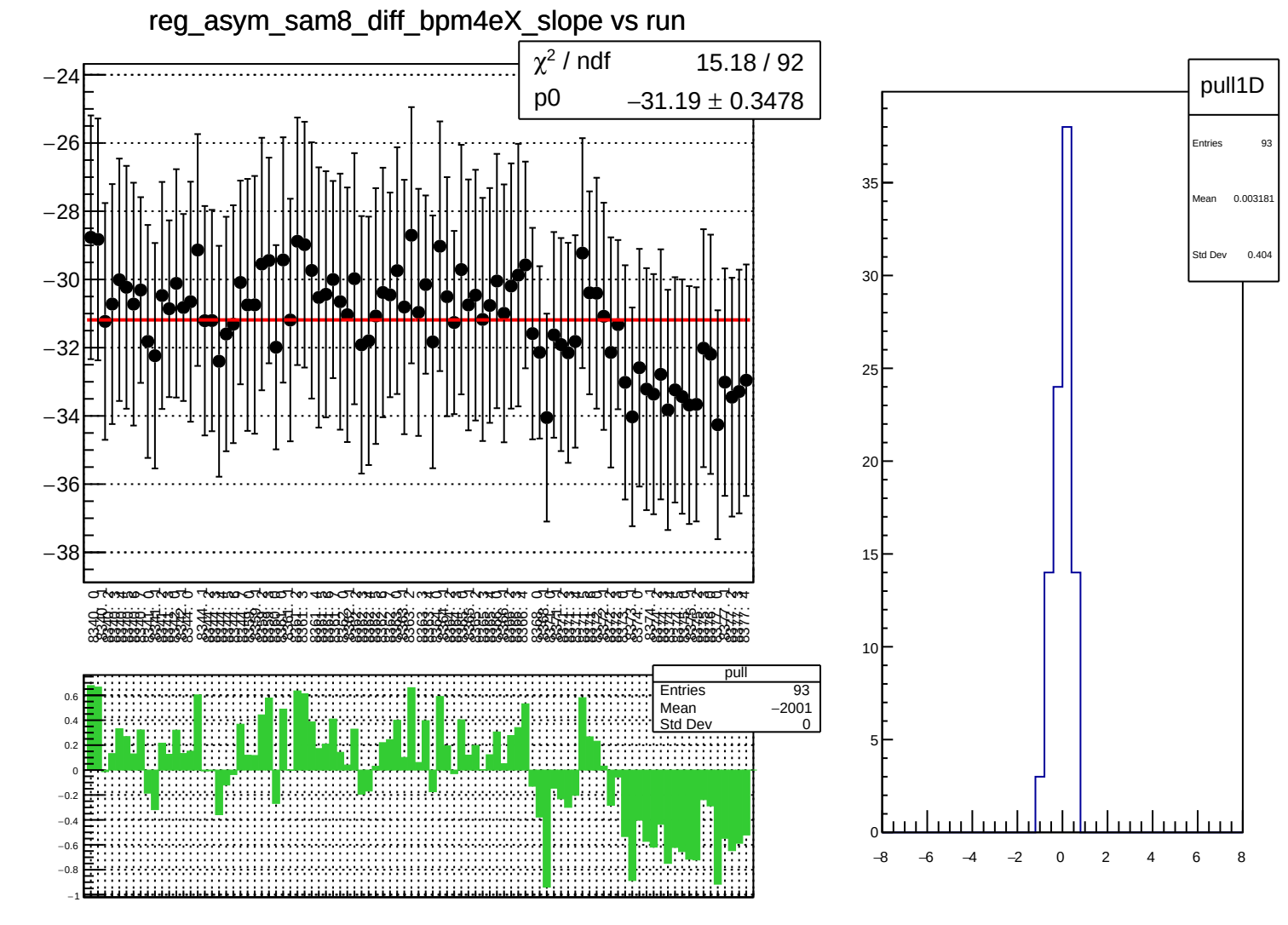

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 2.971 / 92
p0 1.579 ± 0.07923
pull
Entries 93
Mean 424.8
Std Dev 0

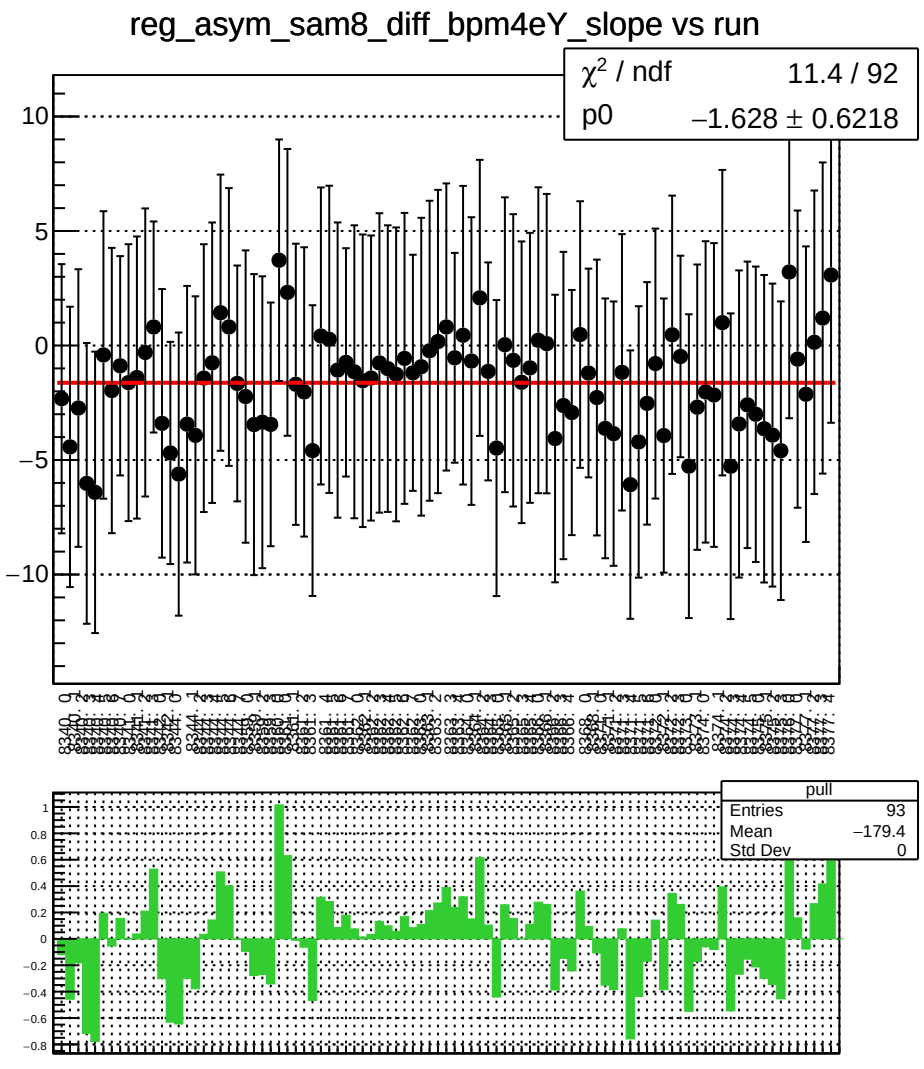

pull1D
Entries 93
Mean 0.005599
Std Dev 0.1786

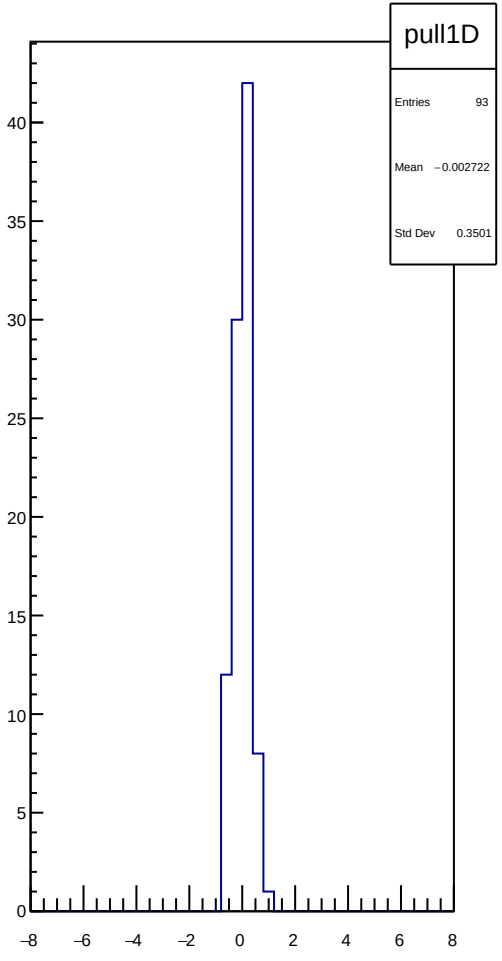

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 25.77 / 92
p0 15.12 ± 0.3028
pull
Entries 93
Mean −698.9
Std Dev 0

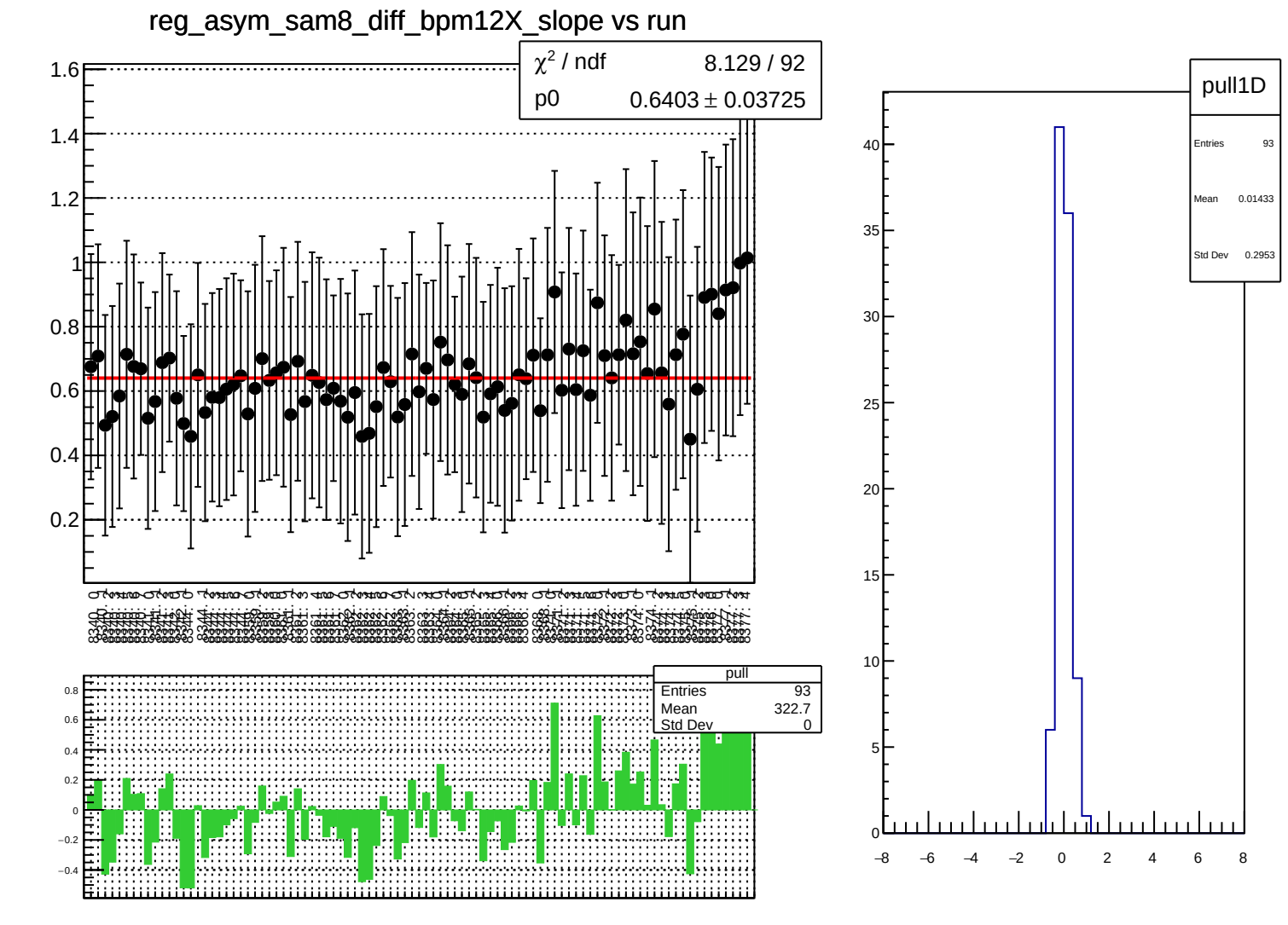

pull1D
Entries 93
Mean −0.013
Std Dev 0.5263

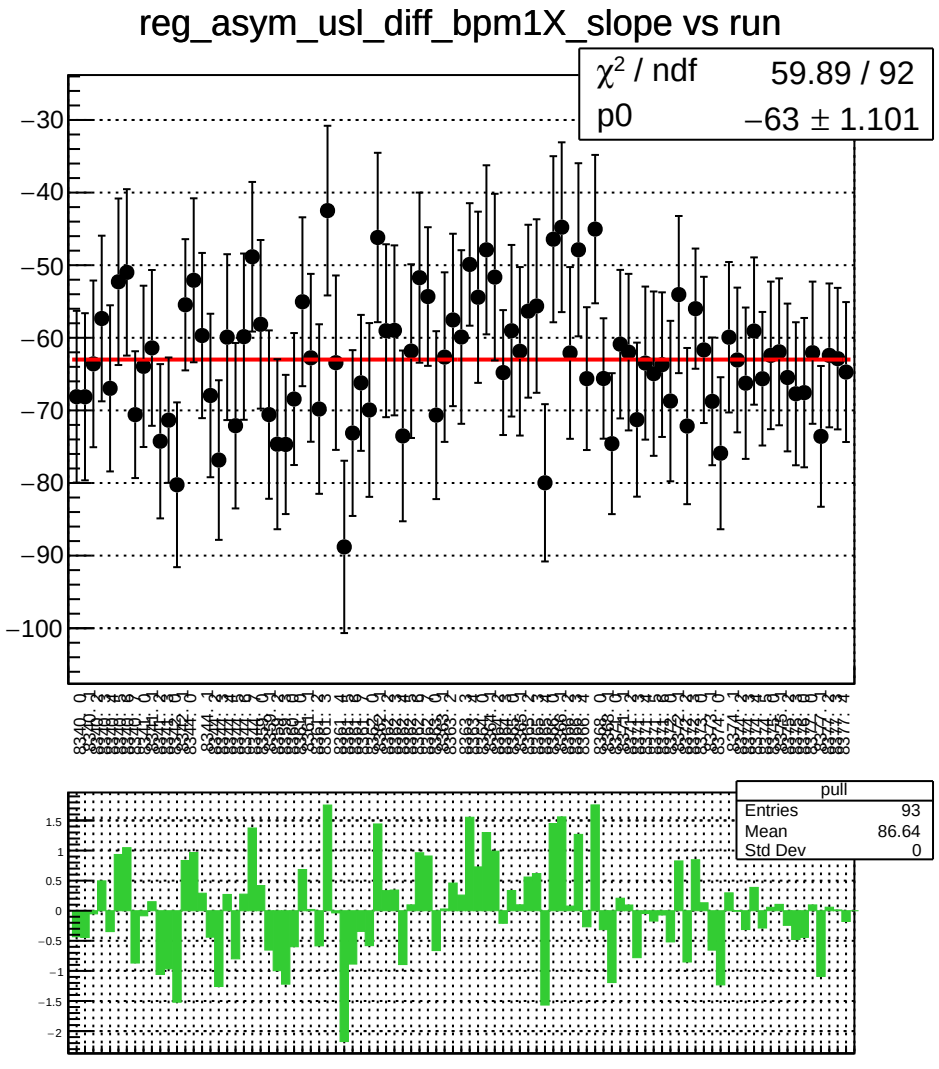

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 9.783 / 92
p0 −3.44 ± 0.6021
pull
Entries 93
Mean −346.6
Std Dev 0
pull1D
Entries 93
Mean 0.003596
Std Dev 0.3243

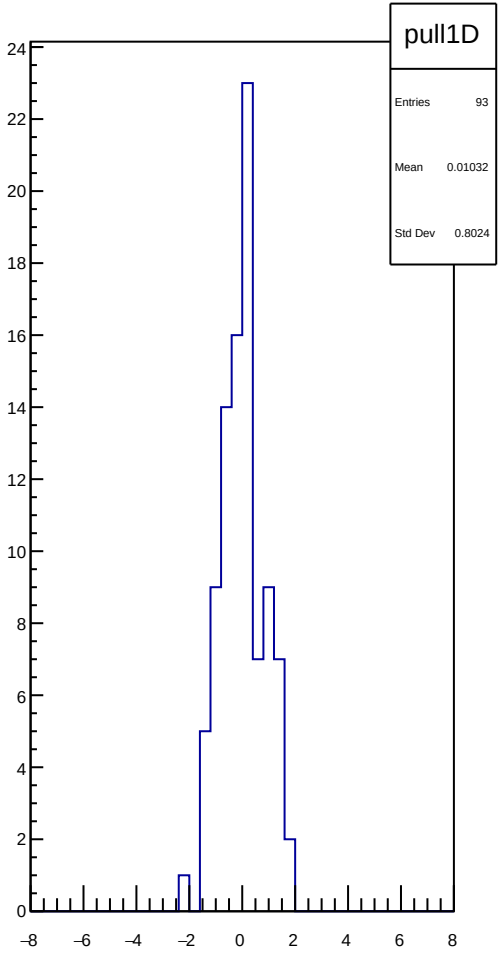

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 15.18 / 92
p0 −31.19 ± 0.3478
pull
Entries 93
Mean −2001
Std Dev 0
pull1D
Entries 93
Mean 0.003181
Std Dev 0.404

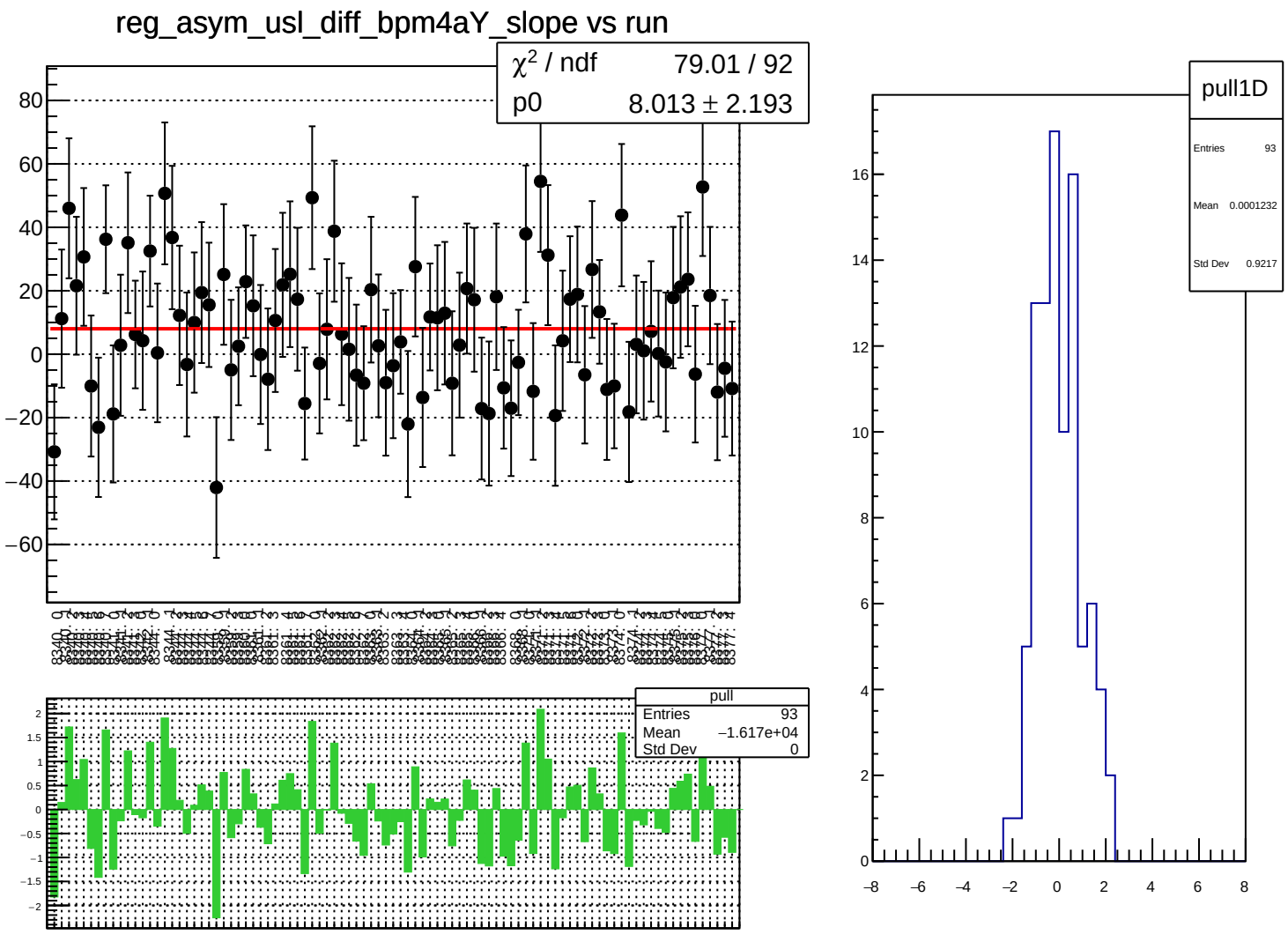

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 11.4 / 92
p0 −1.628 ± 0.6218
pull
Entries 93
Mean −179.4
Std Dev 0

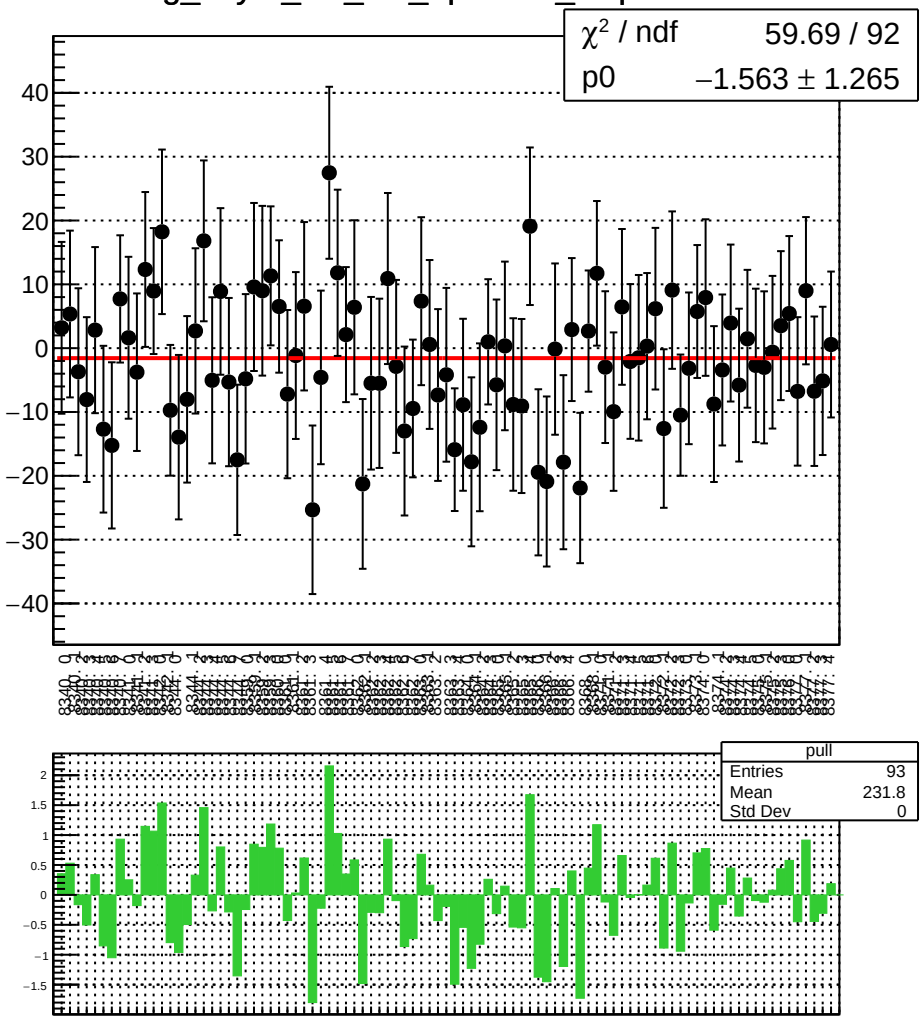

pull1D
Entries 93
Mean −0.002722
Std Dev 0.3501

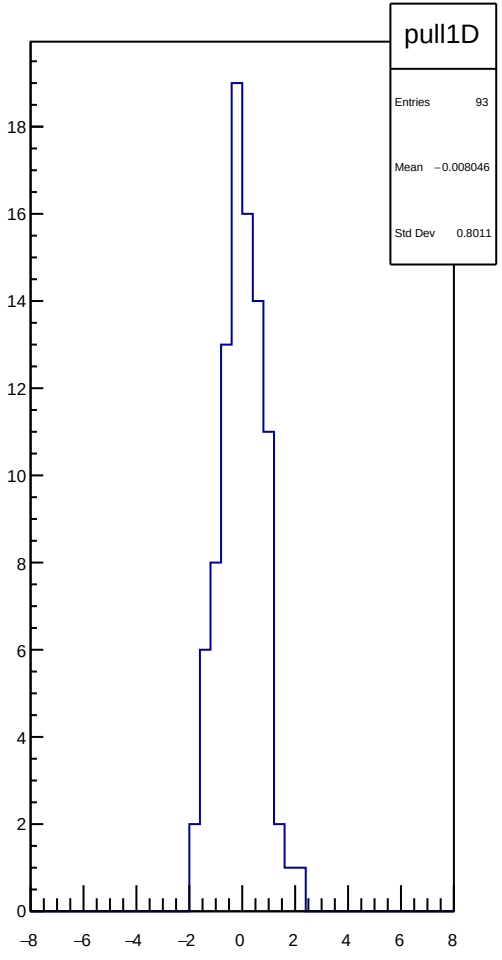

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 8.129 / 92
p0 0.6403 ± 0.03725
pull
Entries 93
Mean 322.7
Std Dev 0
pull1D
Entries 93
Mean 0.01433
Std Dev 0.2953

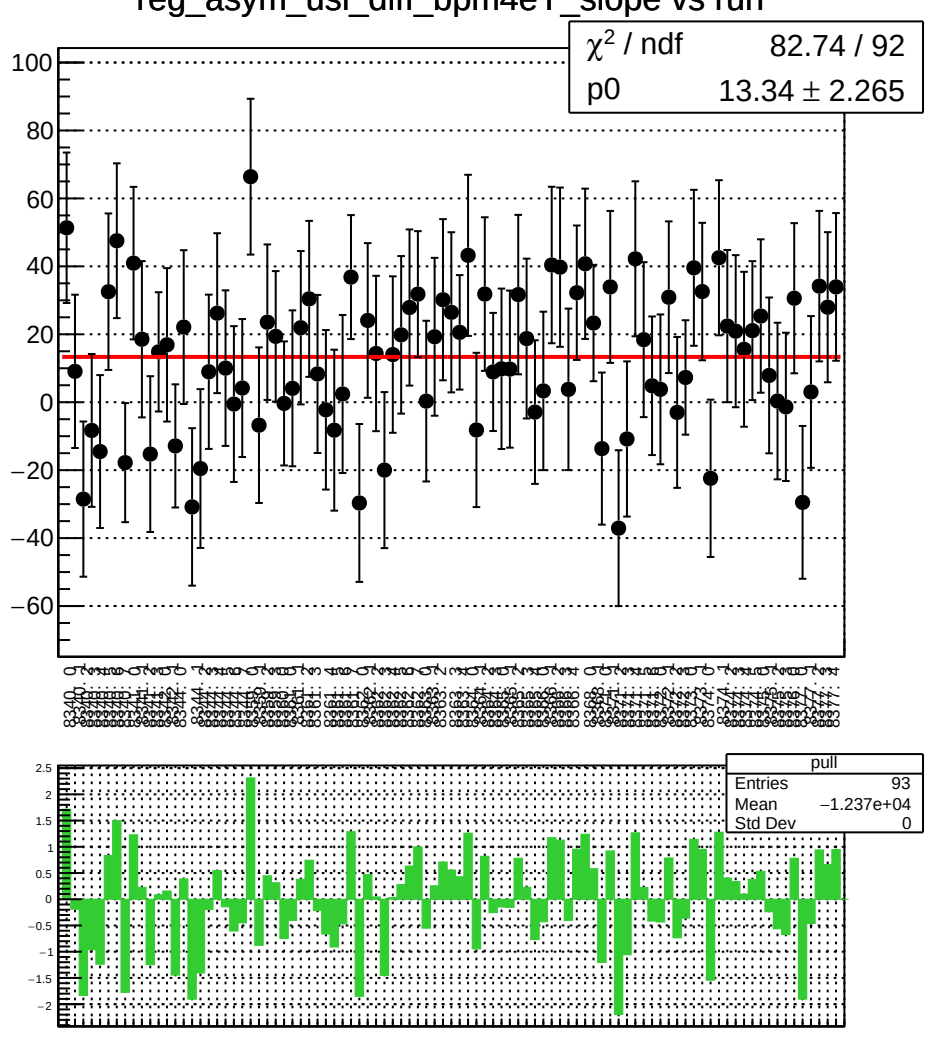

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 59.89 / 92
p0 −63 ± 1.101
pull
Entries 93
Mean 86.64
Std Dev 0

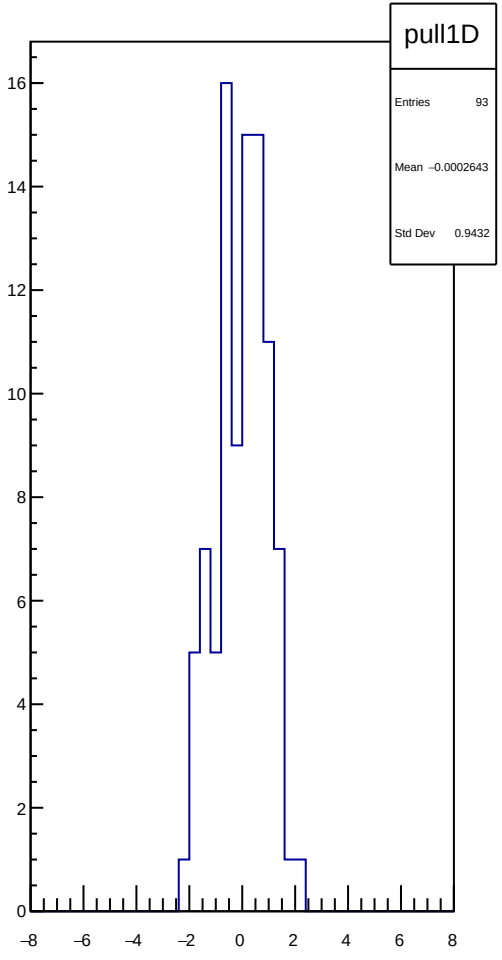

pull1D
Entries 93
Mean 0.01032
Std Dev 0.8024

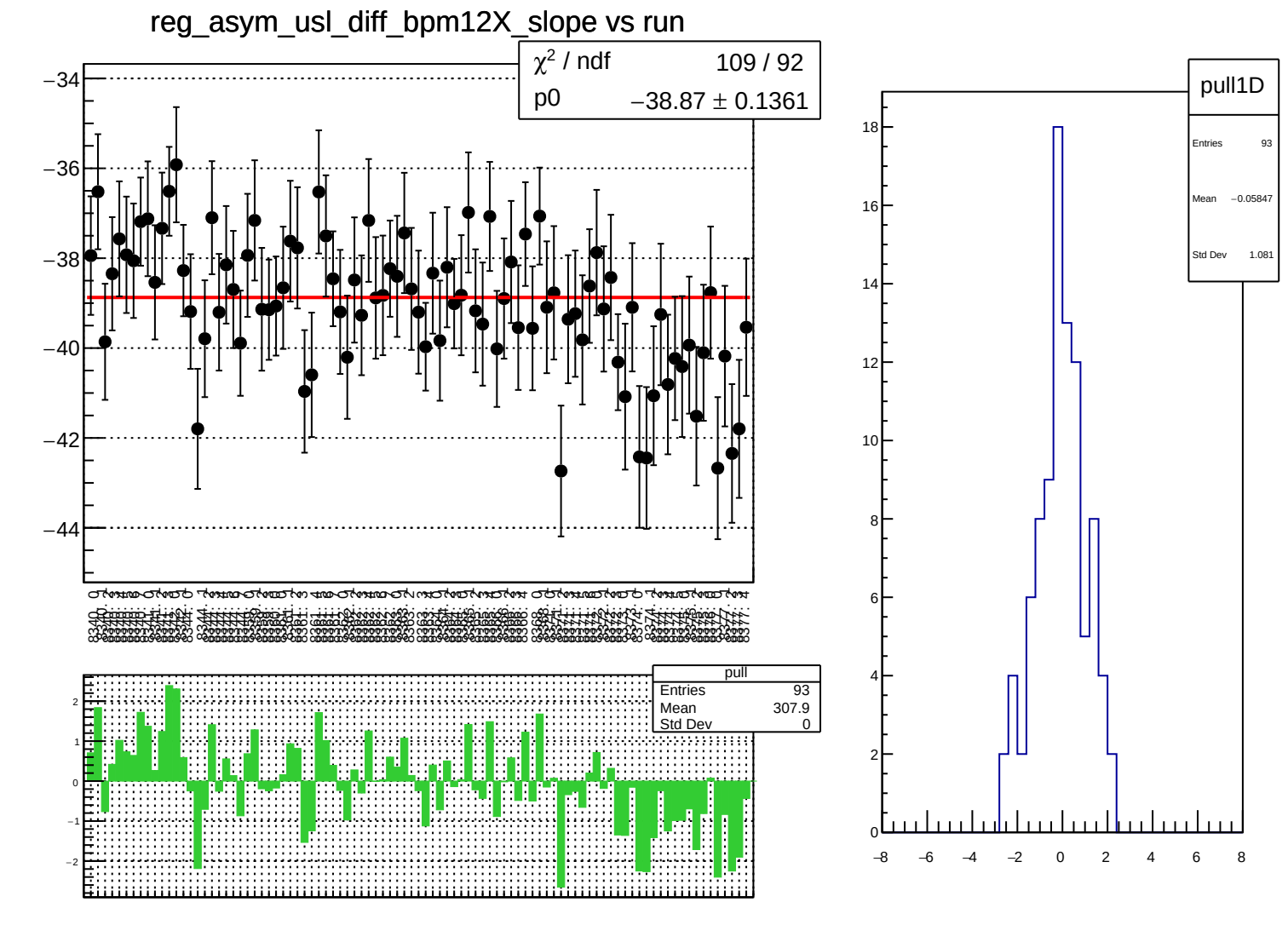

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 79.01 / 92
p0 8.013 ± 2.193
pull
Entries 93
Mean −1.617e+04
Std Dev 0
pull1D
Entries 93
Mean 0.0001232
Std Dev 0.9217

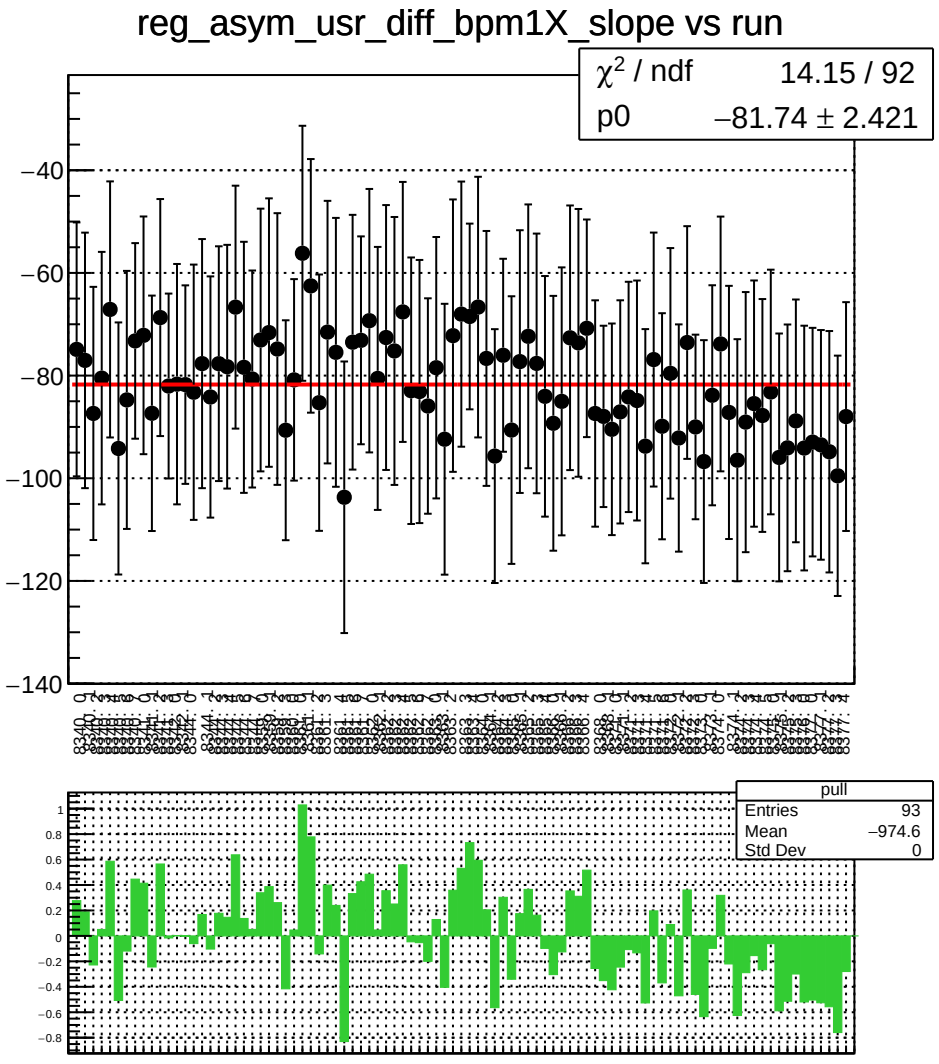

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 59.69 / 92
p0 −1.563 ± 1.265
pull
Entries 93
Mean 231.8
Std Dev 0

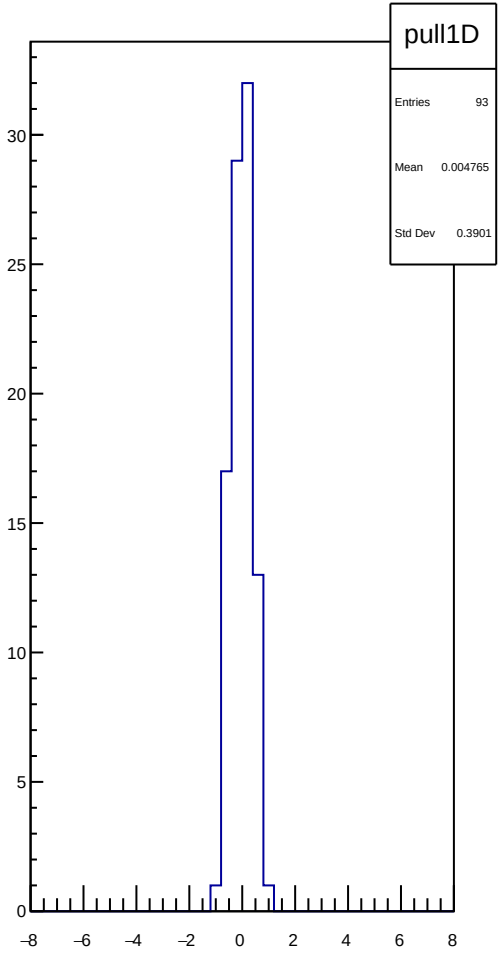

pull1D
Entries 93
Mean −0.008046
Std Dev 0.8011

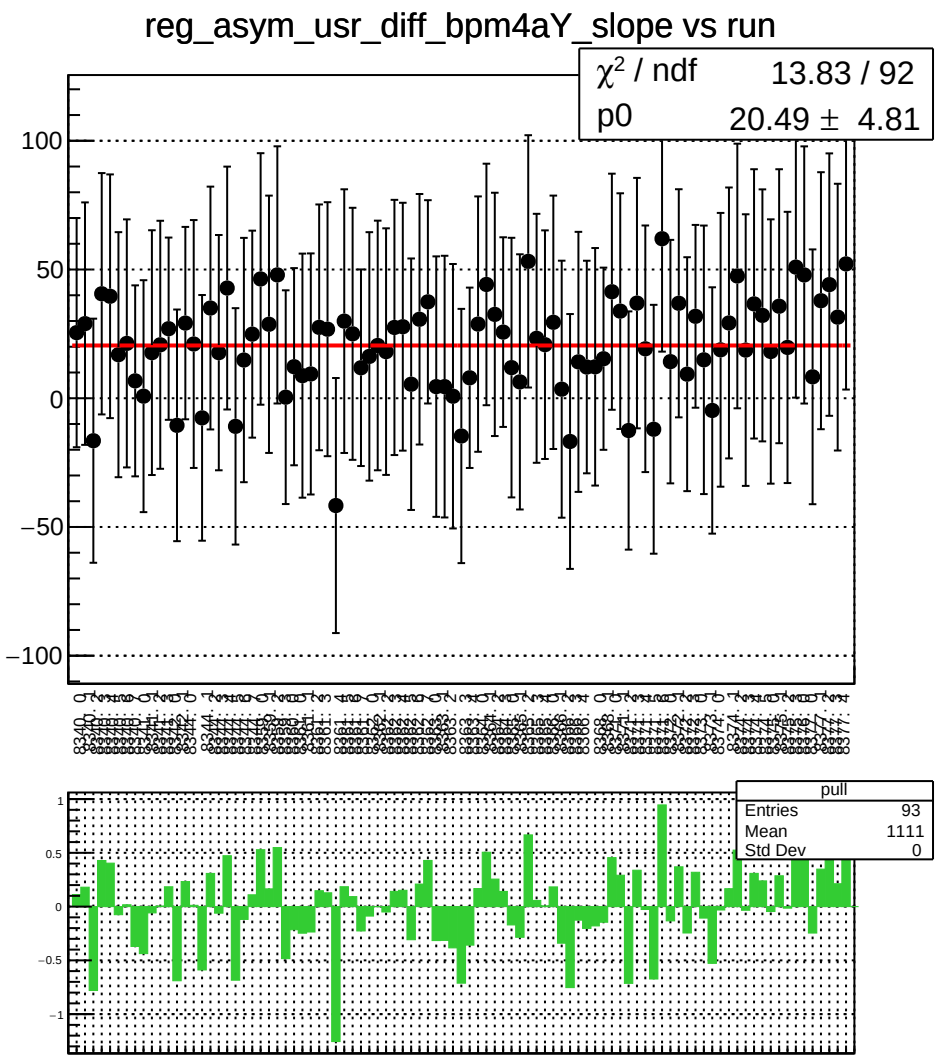

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 82.74 / 92
p0 13.34 ± 2.265
pull
Entries 93
Mean −1.237e+04
Std Dev 0

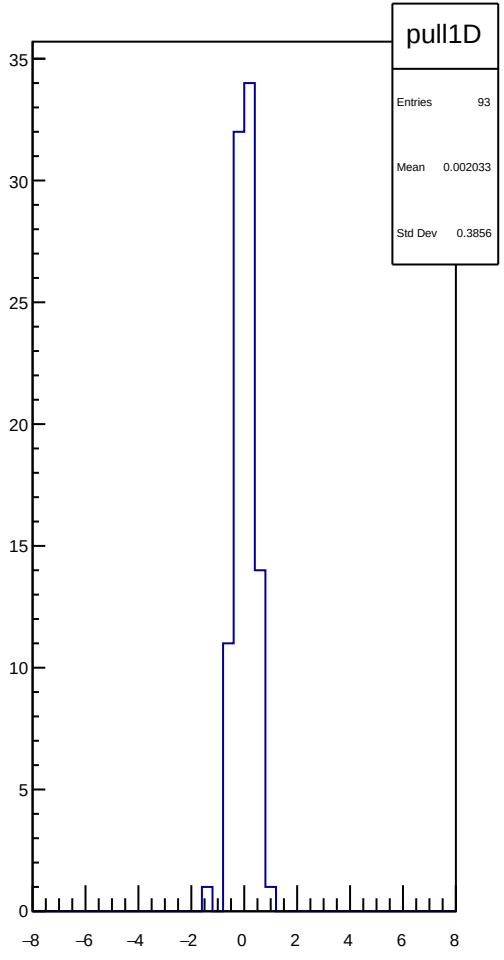

pull1D
Entries 93
Mean −0.0002643
Std Dev 0.9432

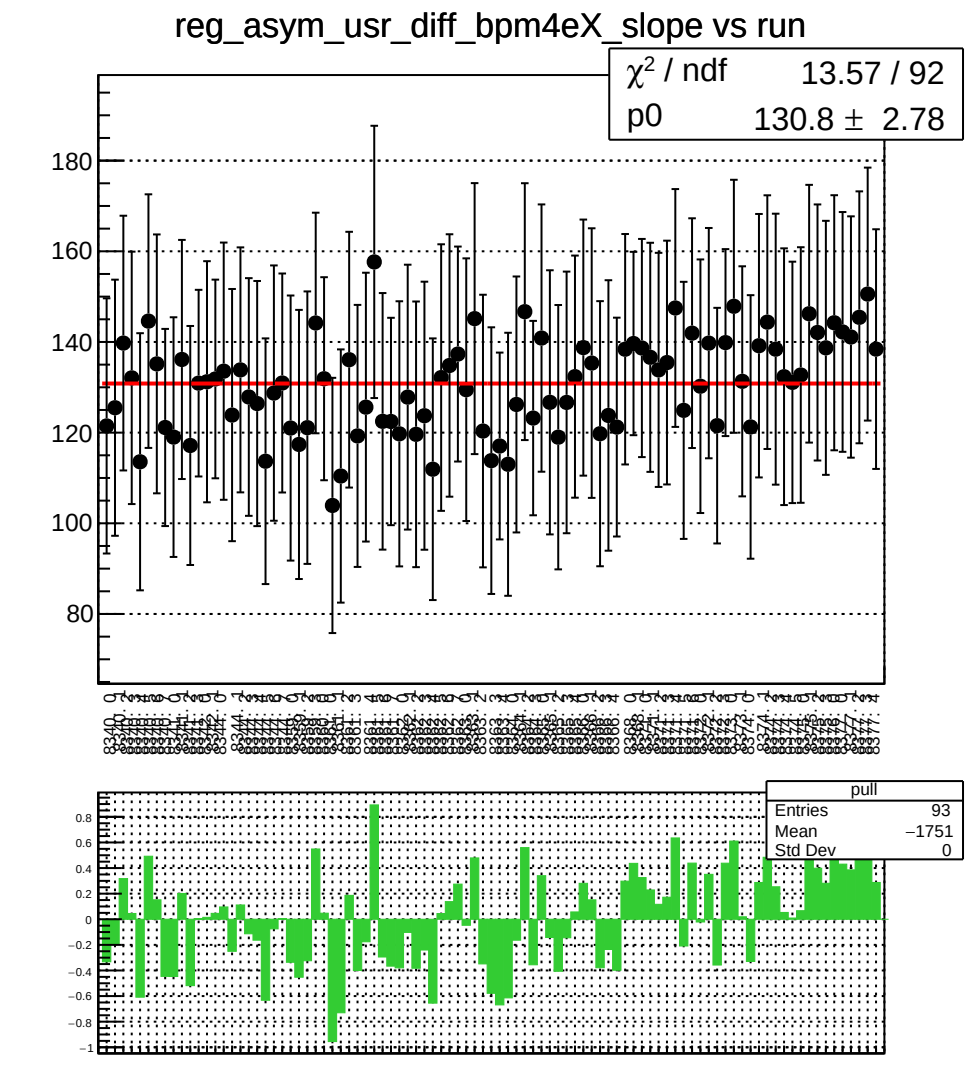

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 109 / 92
p0 −38.87 ± 0.1361
−34
−36
−38
−40
−42
−44
pull
Entries 93
Mean 307.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05847
Std Dev 1.081
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

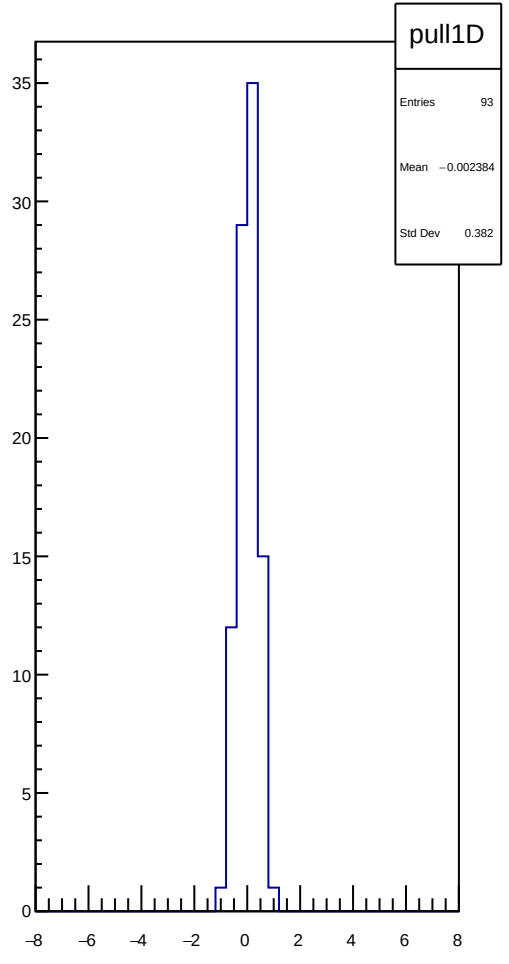

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 14.15 / 92
p0 −81.74 ± 2.421
−40
−60
−80
−100
−120
−140
pull
Entries 93
Mean −974.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

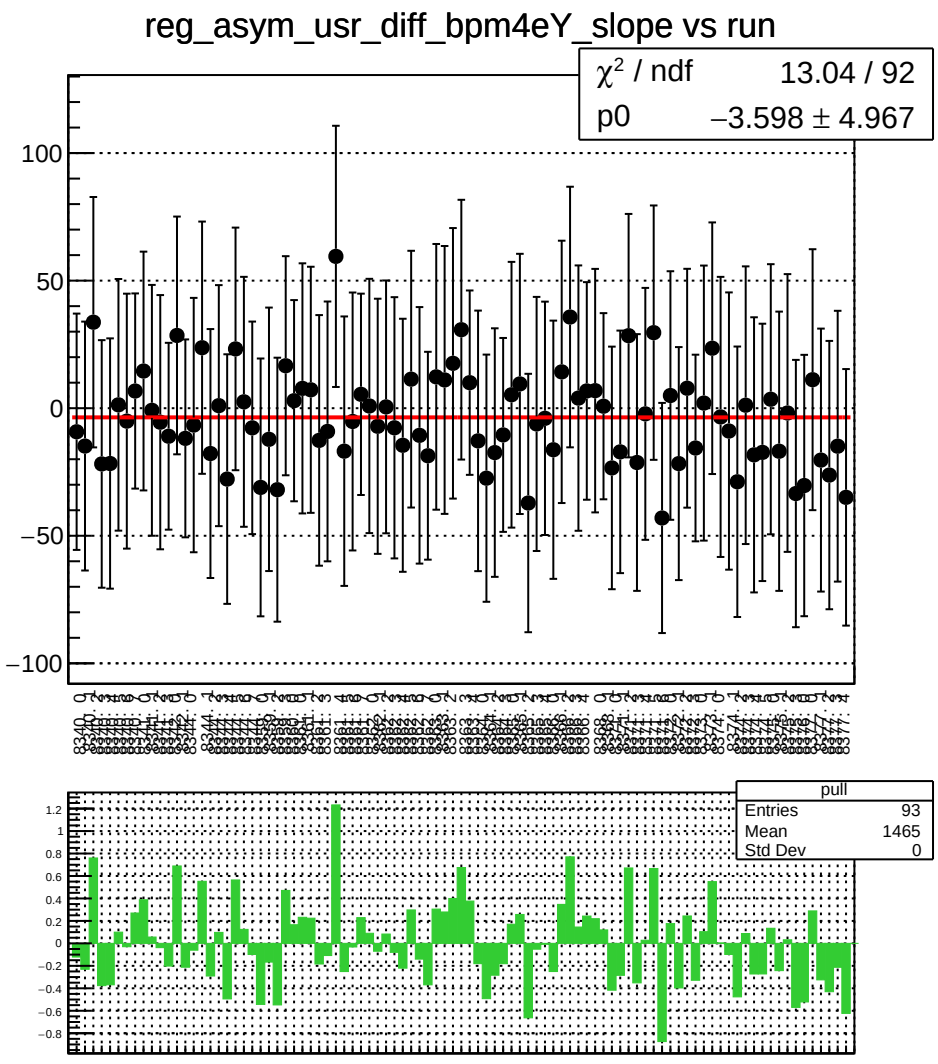

pull1D
Entries 93
Mean 0.004765
Std Dev 0.3901
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

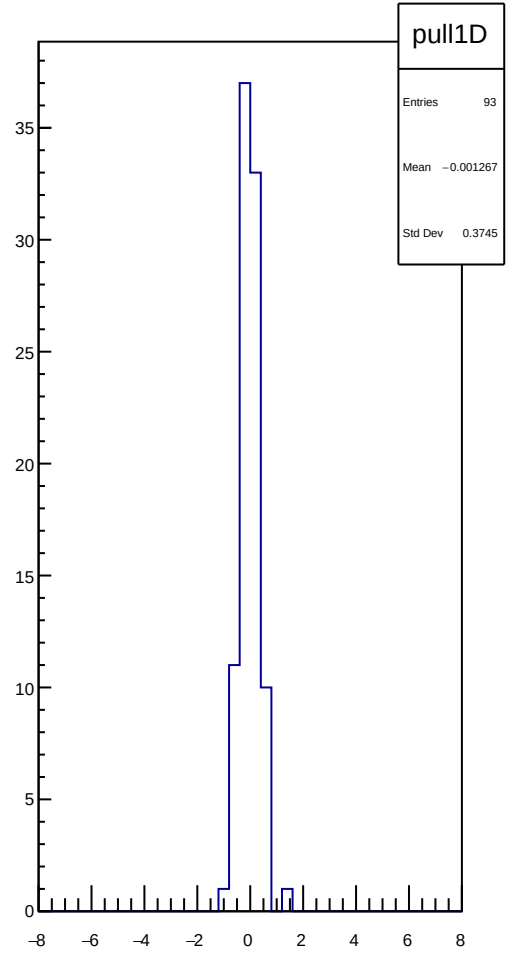

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 13.83 / 92
p0 20.49 ± 4.81
100
50
0
−50
−100
pull
Entries 93
Mean 1111
Std Dev 0
1
0.5
0
−0.5
−1

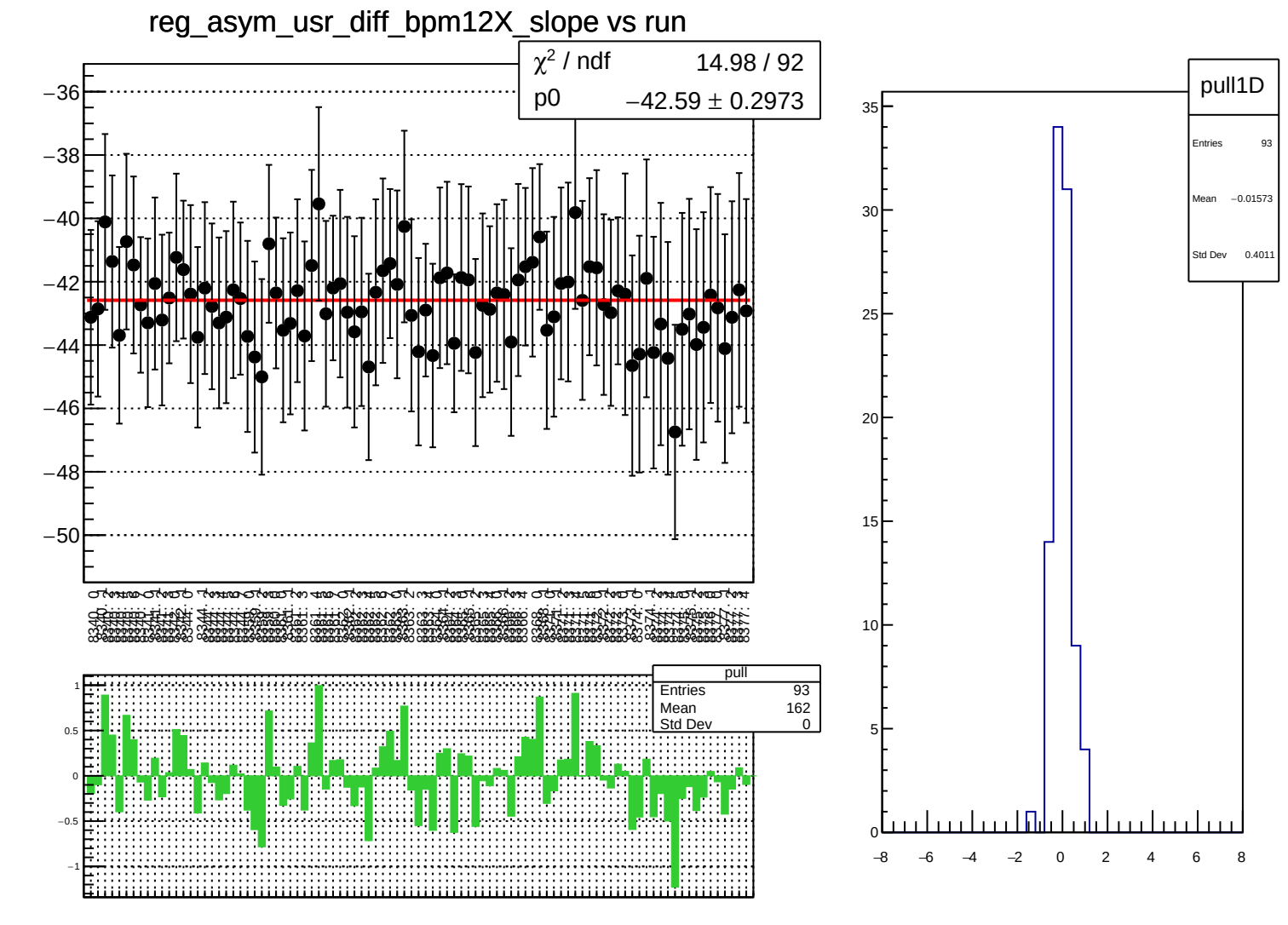

pull1D
Entries 93
Mean 0.002033
Std Dev 0.3856
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

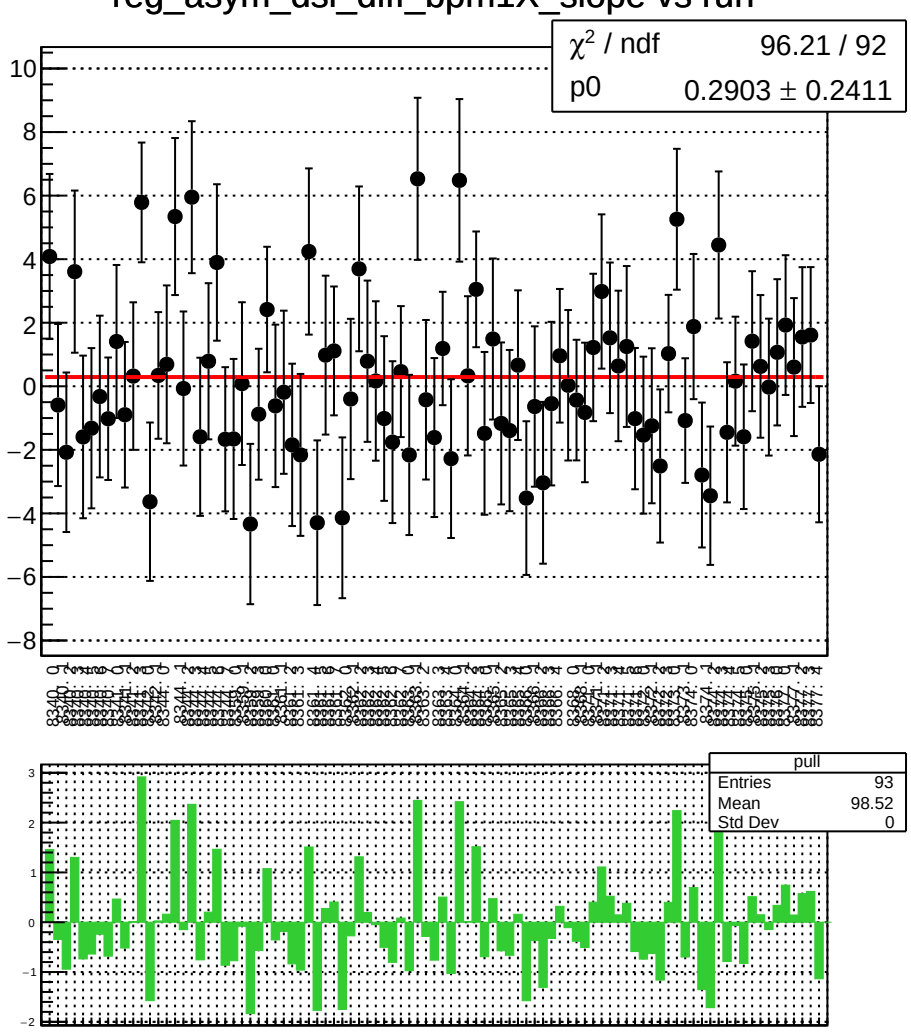

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 13.57 / 92
p0 130.8 ± 2.78
180
160
140
120
100
80
pull
Entries 93
Mean −1751
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

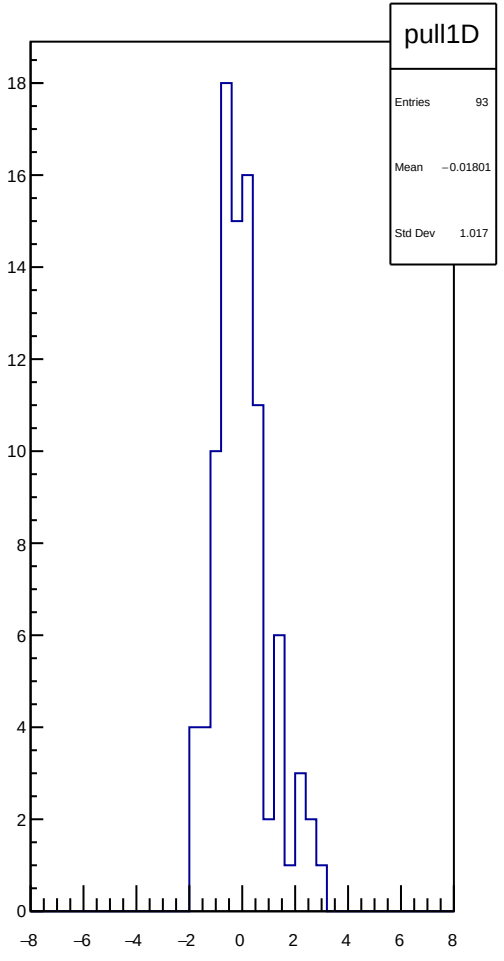

pull1D
Entries 93
Mean −0.002384
Std Dev 0.382
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

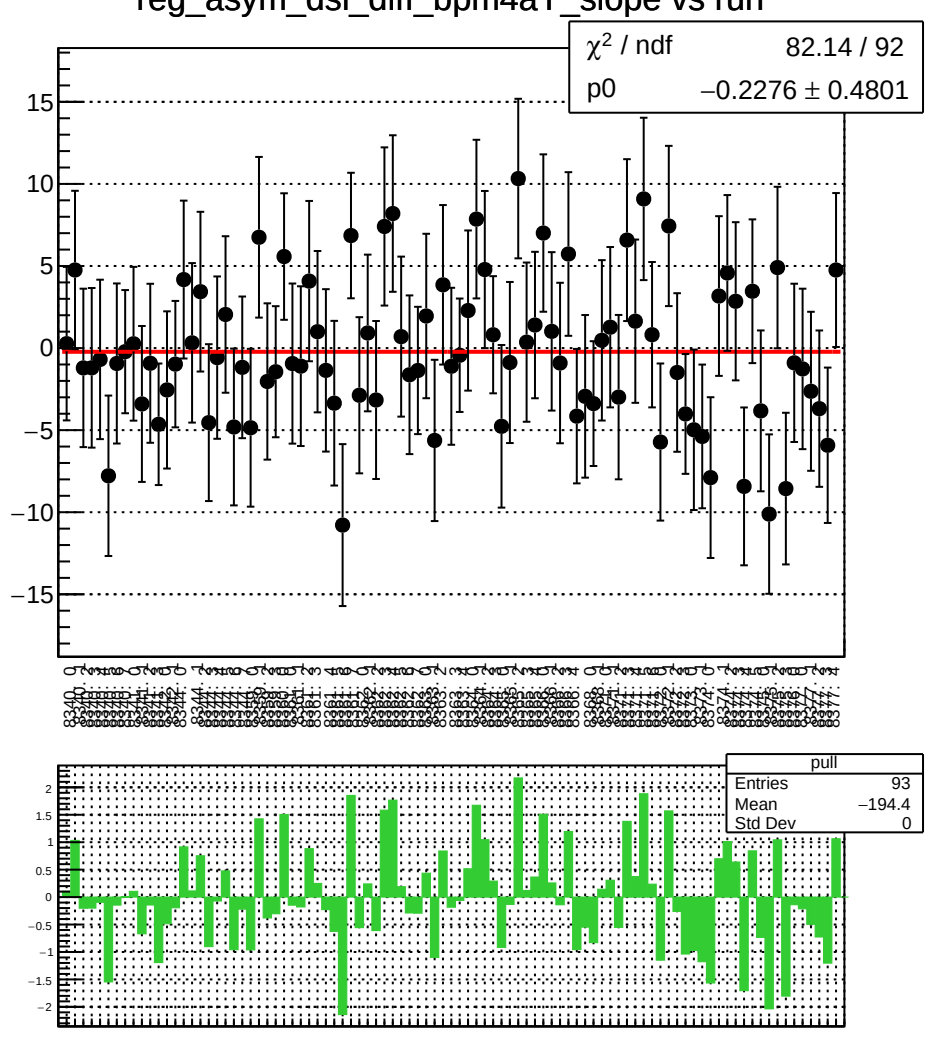

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 13.04 / 92
p0 −3.598 ± 4.967
100
50
0
−50
−100
pull
Entries 93
Mean 1465
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

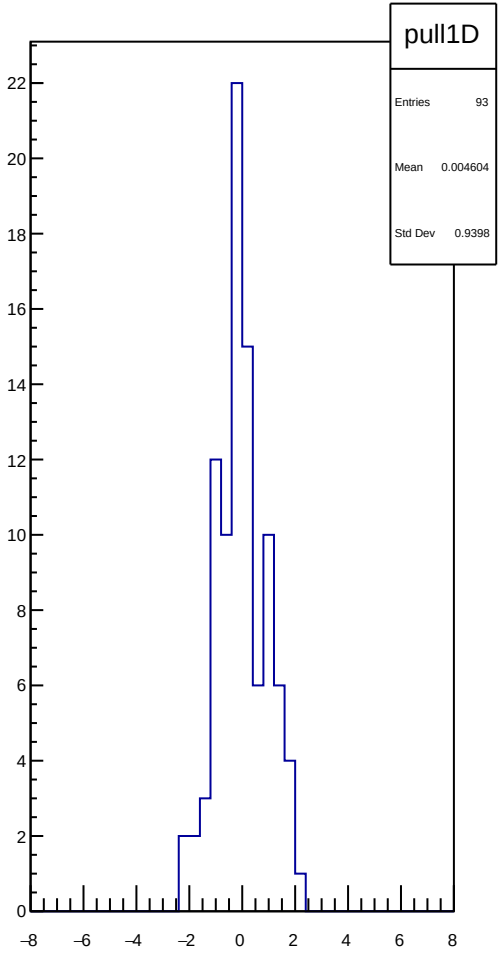

pull1D
Entries 93
Mean −0.001267
Std Dev 0.3745
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

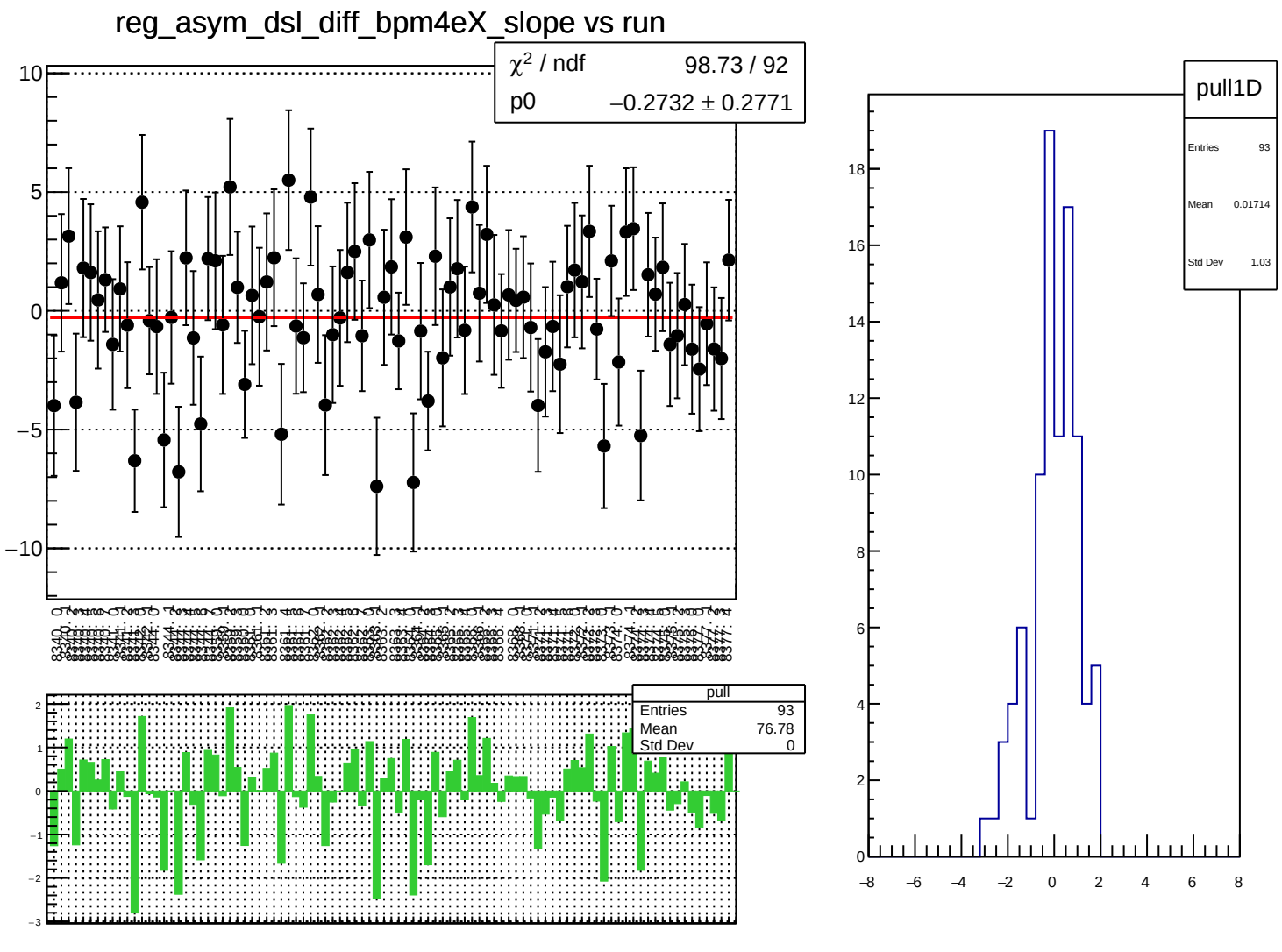

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 14.98 / 92
p0 −42.59 ± 0.2973
pull
Entries 93
Mean 162
Std Dev 0
pull1D
Entries 93
Mean −0.01573
Std Dev 0.4011

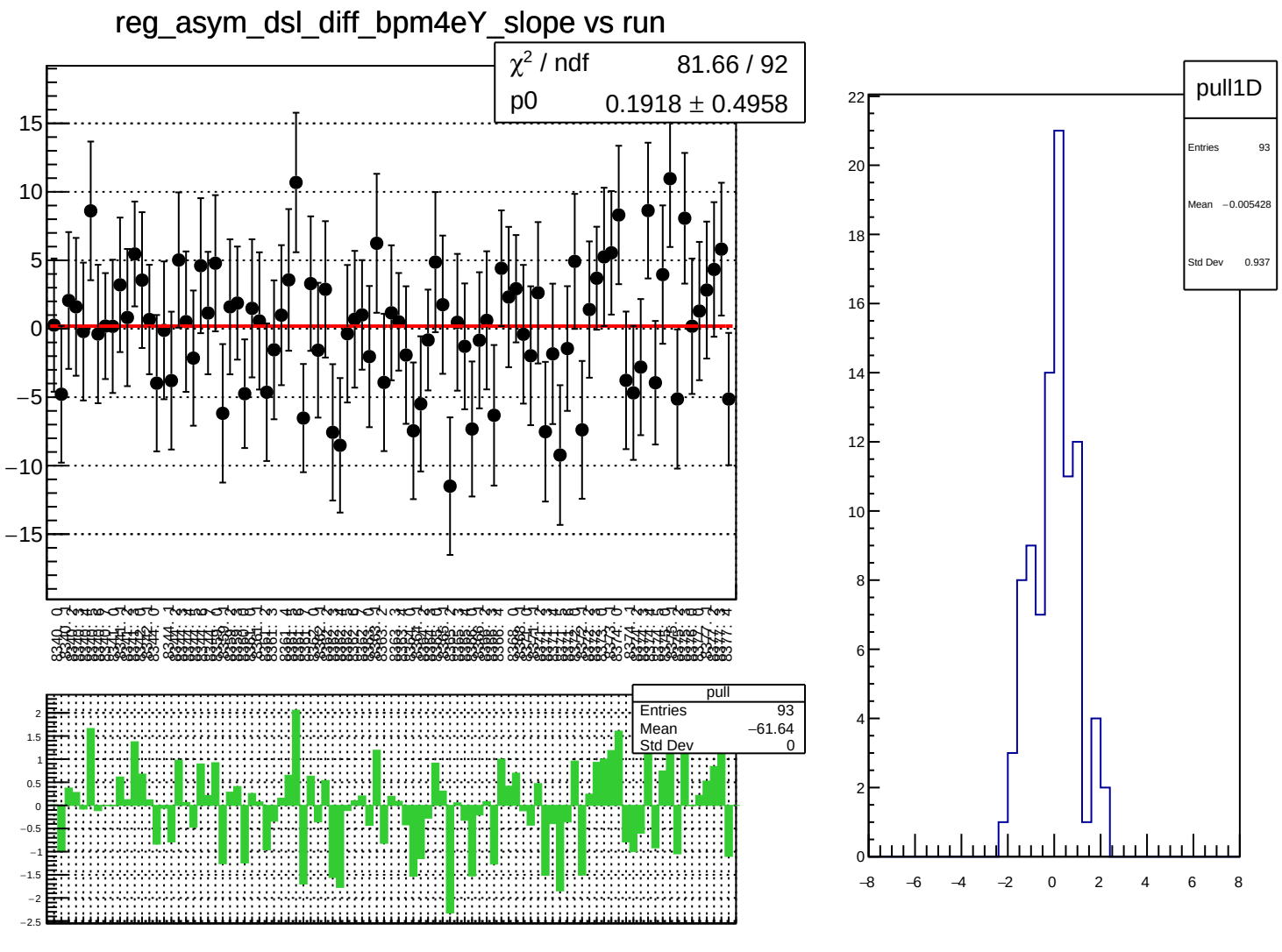

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 96.21 / 92
p0 0.2903 ± 0.2411
pull
Entries 93
Mean 98.52
Std Dev 0

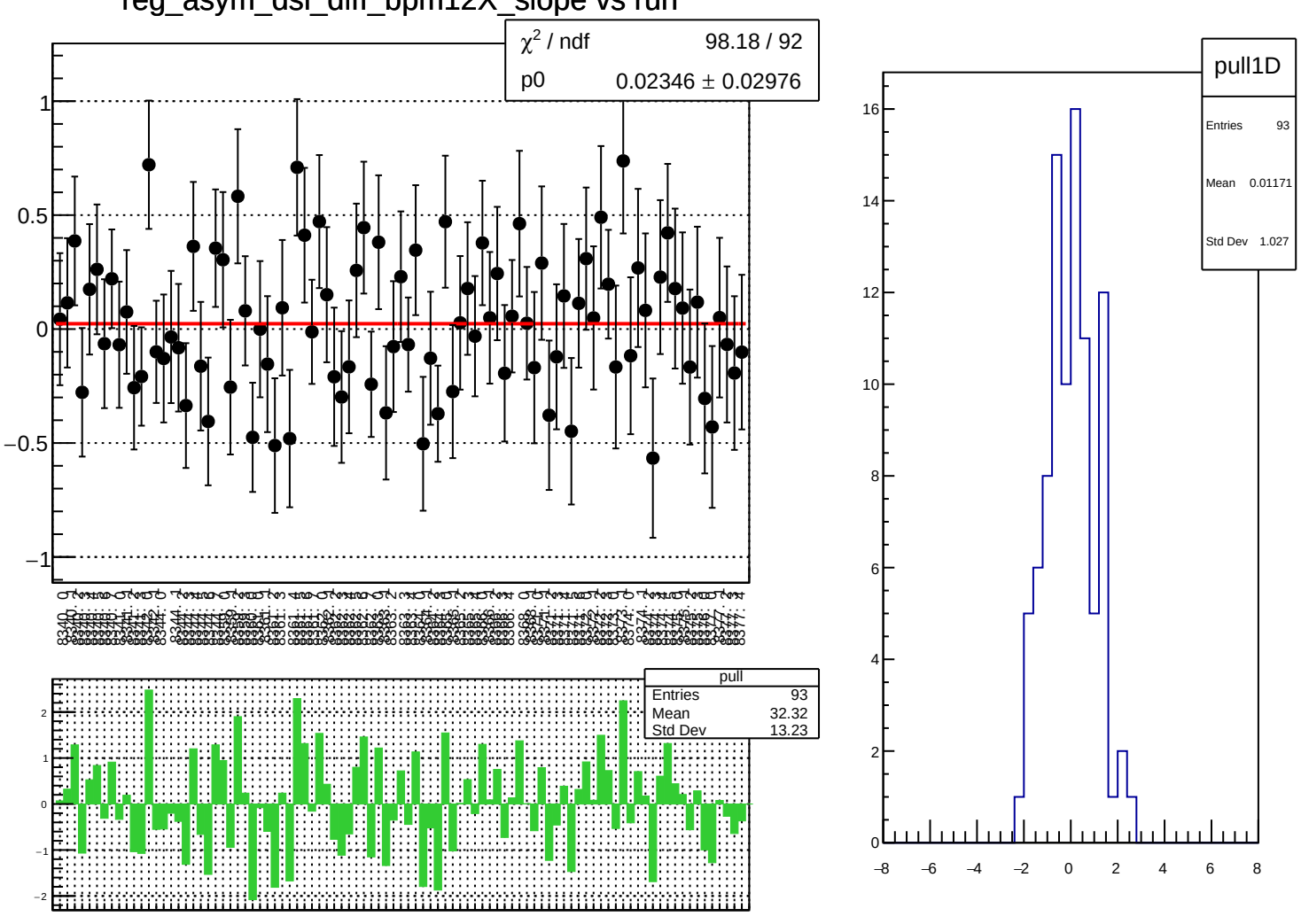

pull1D
Entries 93
Mean −0.01801
Std Dev 1.017

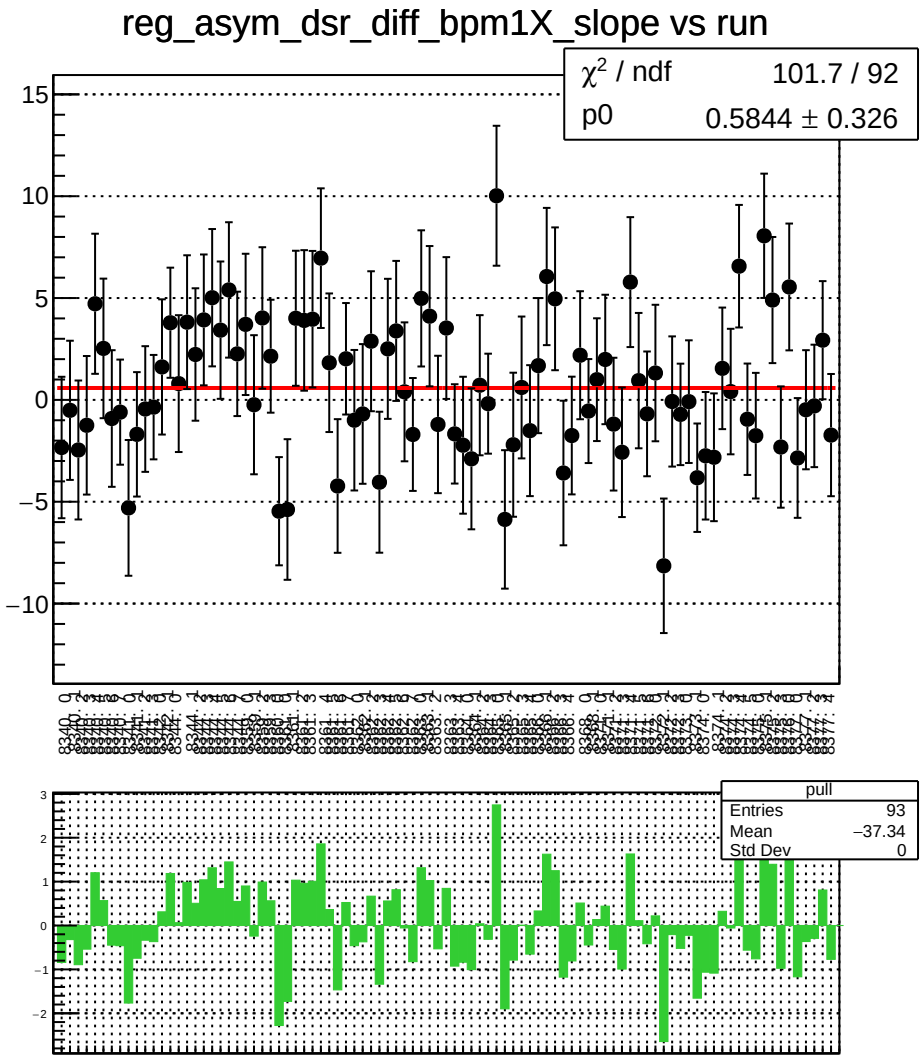

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 82.14 / 92
p0 −0.2276 ± 0.4801
pull
Entries 93
Mean −194.4
Std Dev 0

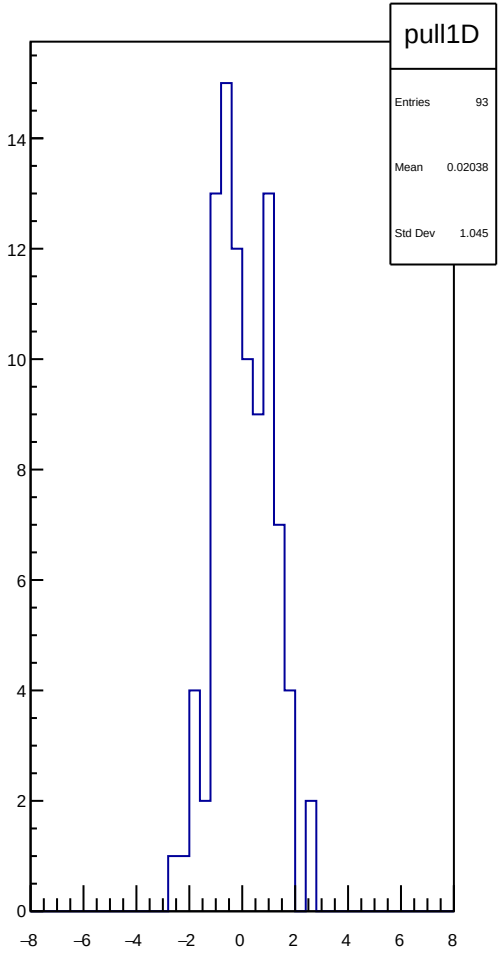

pull1D
Entries 93
Mean 0.004604
Std Dev 0.9398

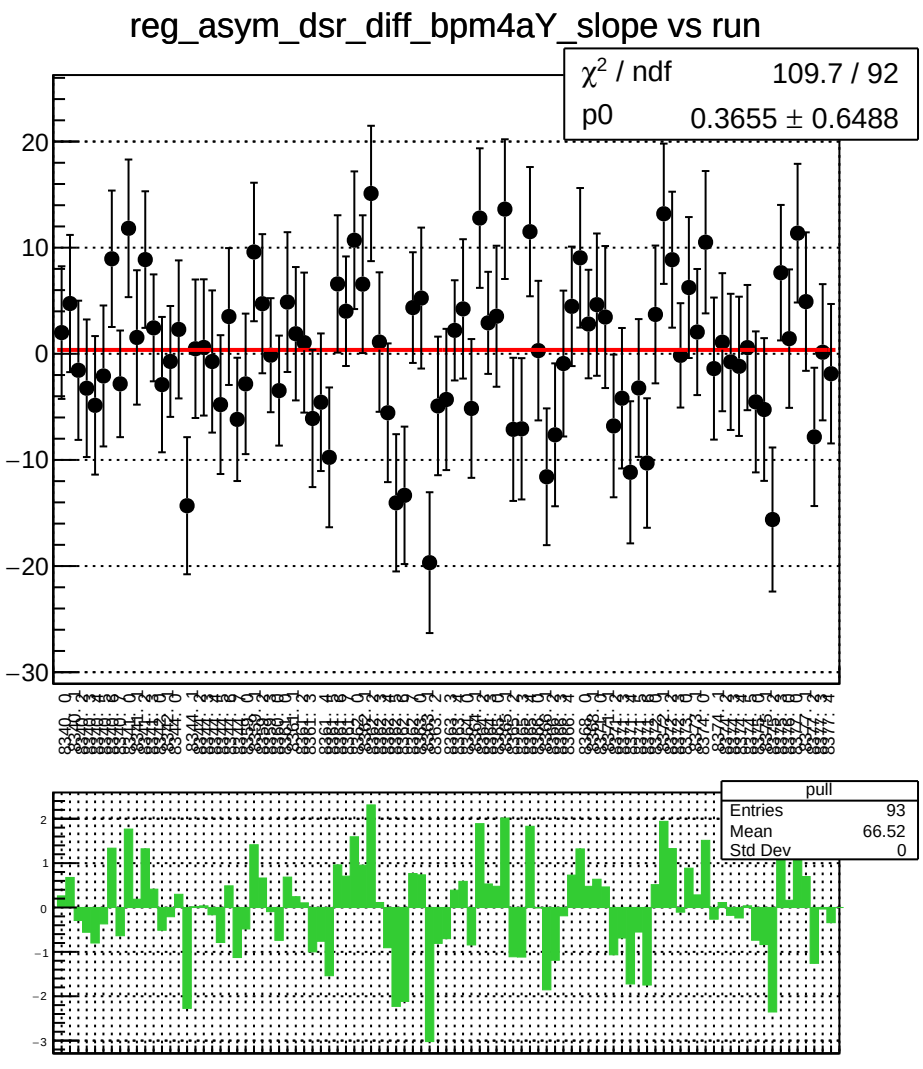

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 98.73 / 92
p0 −0.2732 ± 0.2771
pull
Entries 93
Mean 76.78
Std Dev 0
pull1D
Entries 93
Mean 0.01714
Std Dev 1.03

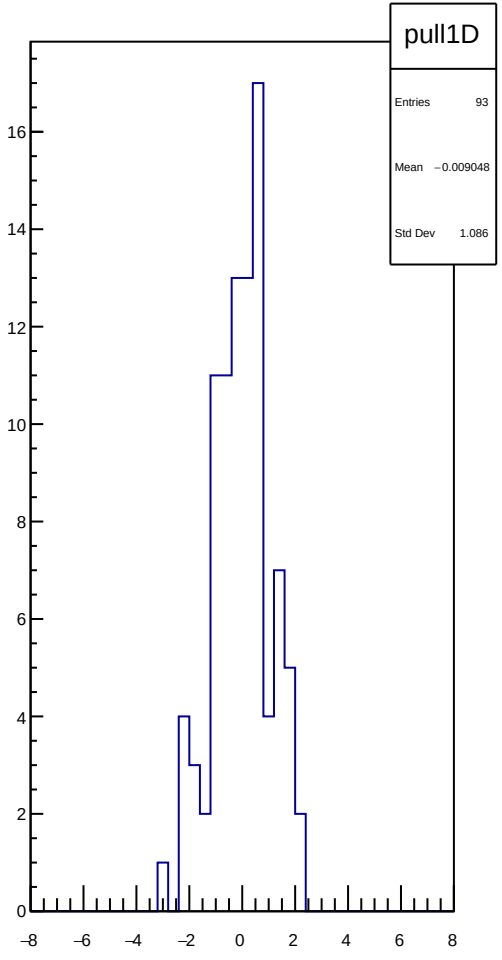

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 81.66 / 92
p0 0.1918 ± 0.4958
pull
Entries 93
Mean −61.64
Std Dev 0
pull1D
Entries 93
Mean −0.005428
Std Dev 0.937

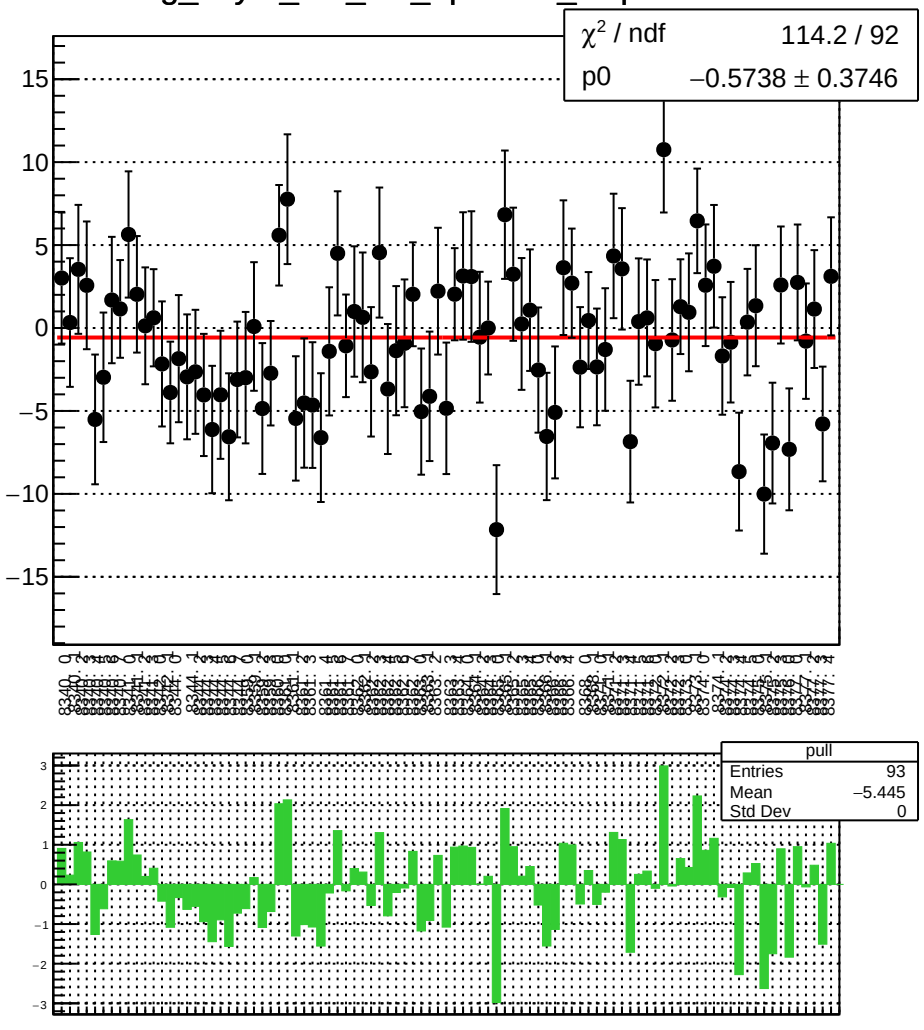

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 98.18 / 92
p0 0.02346 ± 0.02976
pull
Entries 93
Mean 32.32
Std Dev 13.23
pull1D
Entries 93
Mean 0.01171
Std Dev 1.027

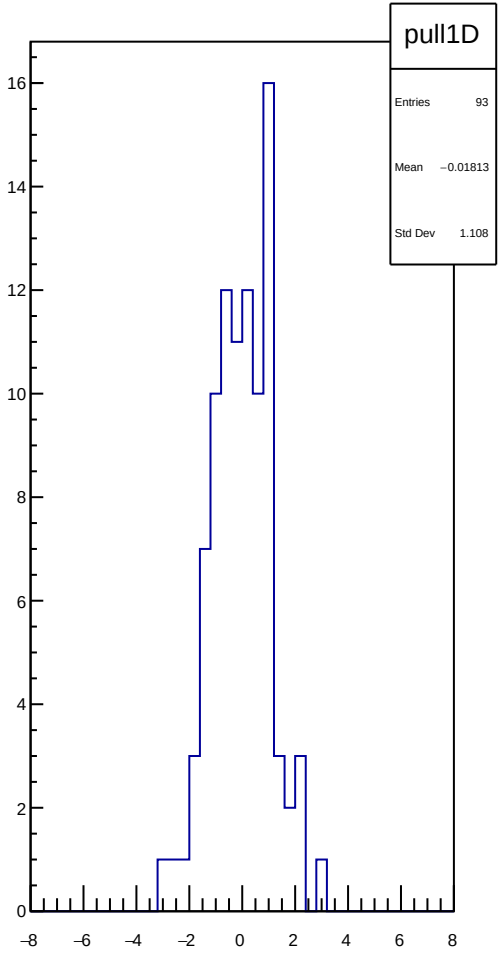

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 101.7 / 92
p0 0.5844 ± 0.326
pull
Entries 93
Mean −37.34
Std Dev 0

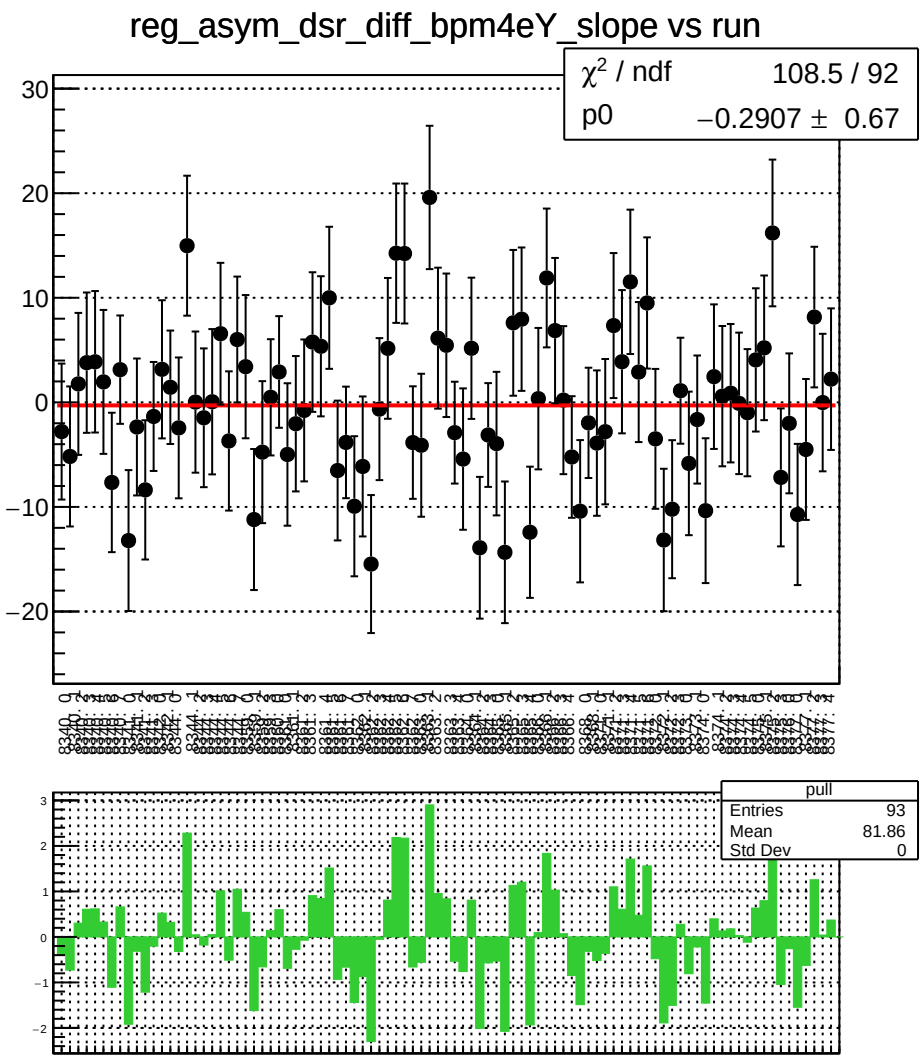

pull1D
Entries 93
Mean 0.02038
Std Dev 1.045

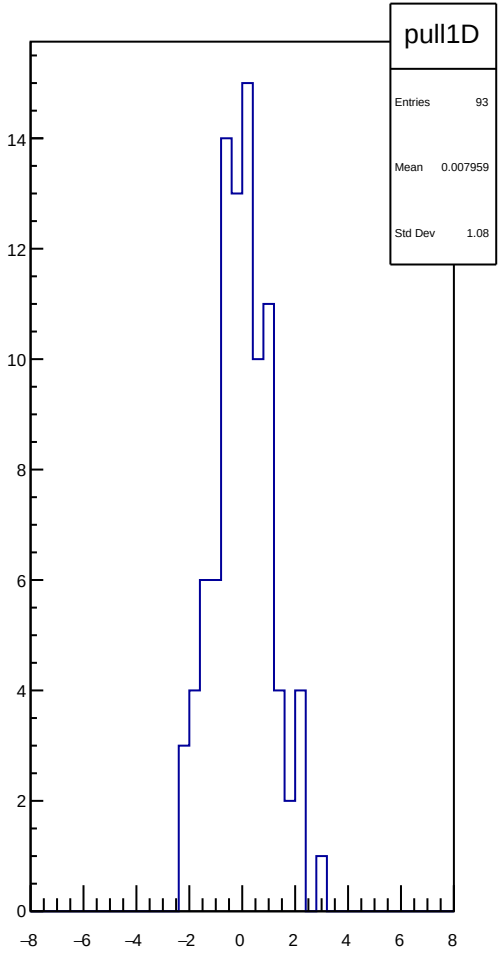

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 109.7 / 92
p0 0.3655 ± 0.6488
pull
Entries 93
Mean 66.52
Std Dev 0

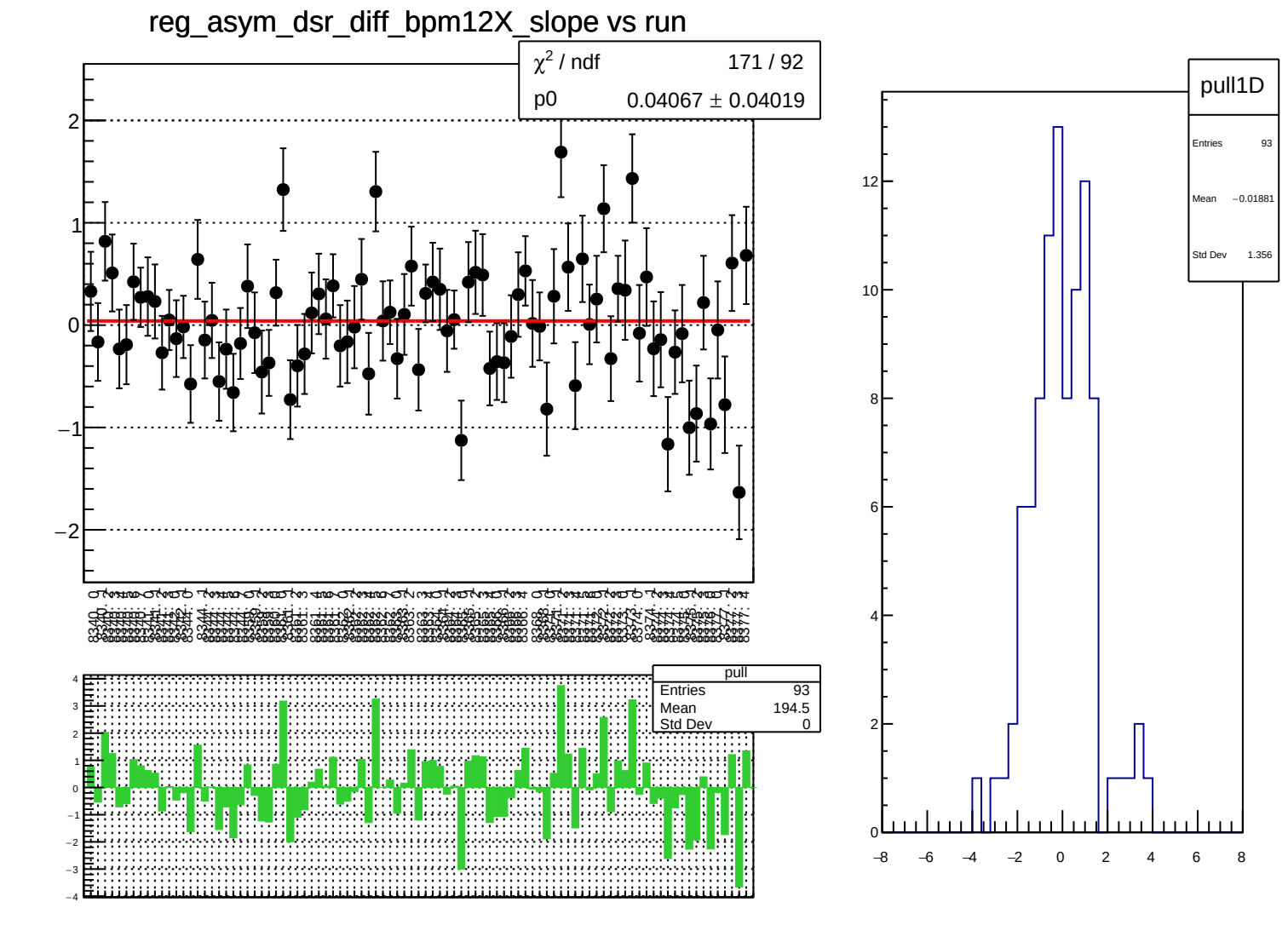

pull1D
Entries 93
Mean −0.009048
Std Dev 1.086

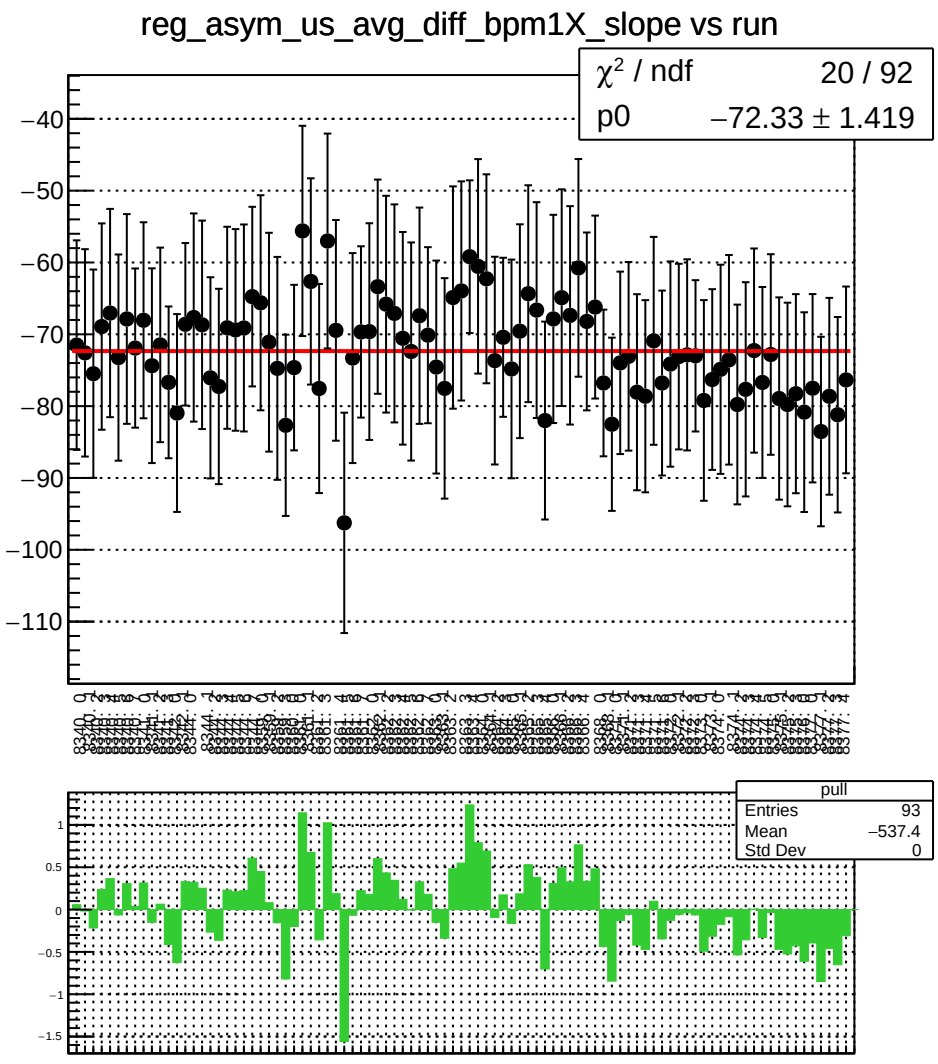

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 114.2 / 92
p0 −0.5738 ± 0.3746
pull
Entries 93
Mean −5.445
Std Dev 0

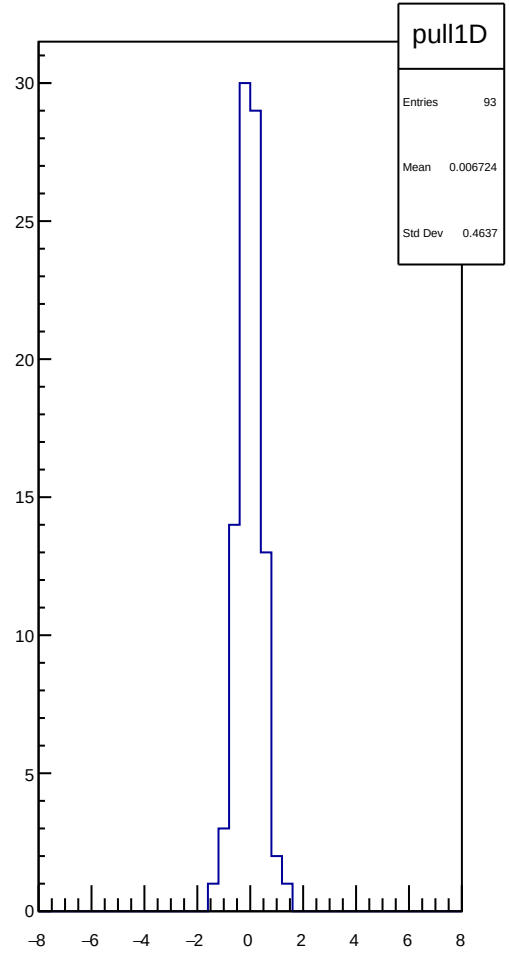

pull1D
Entries 93
Mean −0.01813
Std Dev 1.108

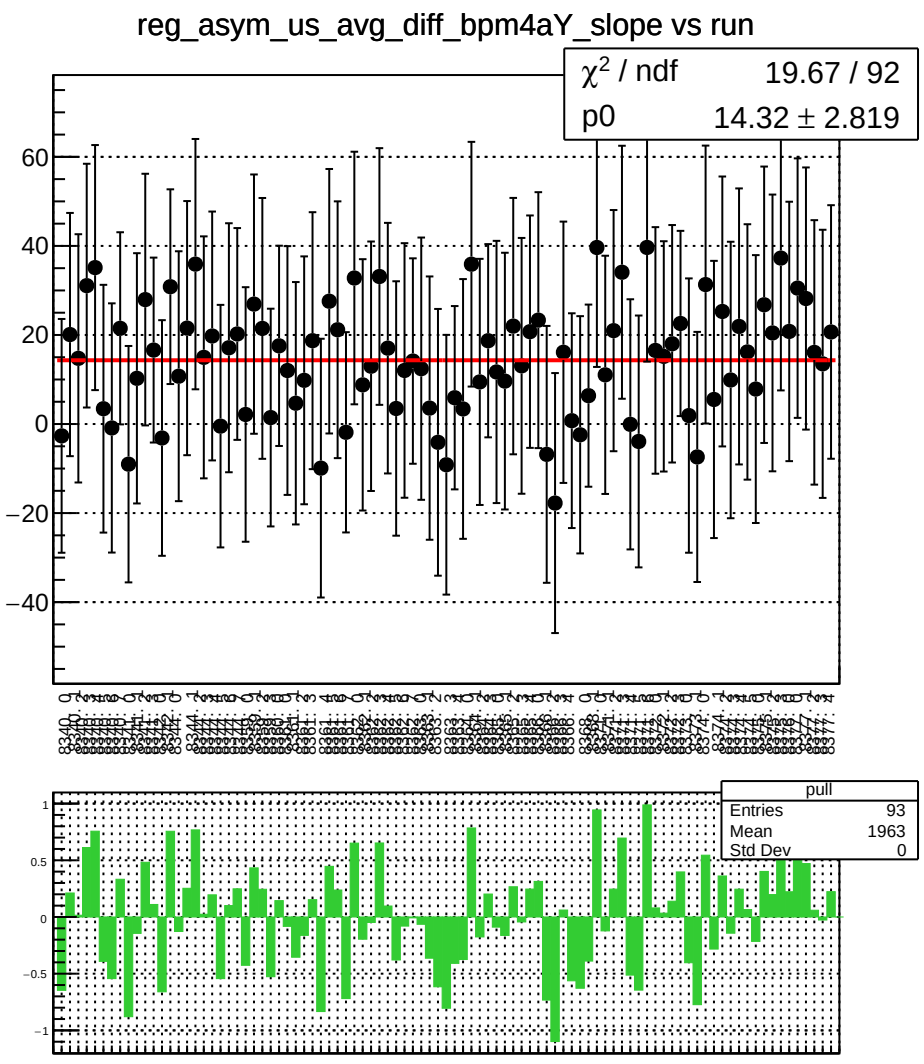

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 108.5 / 92
p0 −0.2907 ± 0.67
pull
Entries 93
Mean 81.86
Std Dev 0

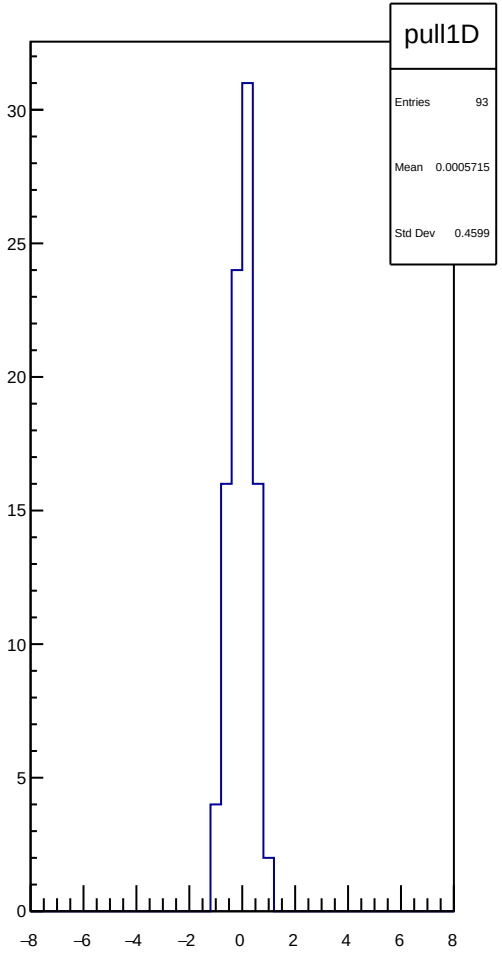

pull1D
Entries 93
Mean 0.007959
Std Dev 1.08

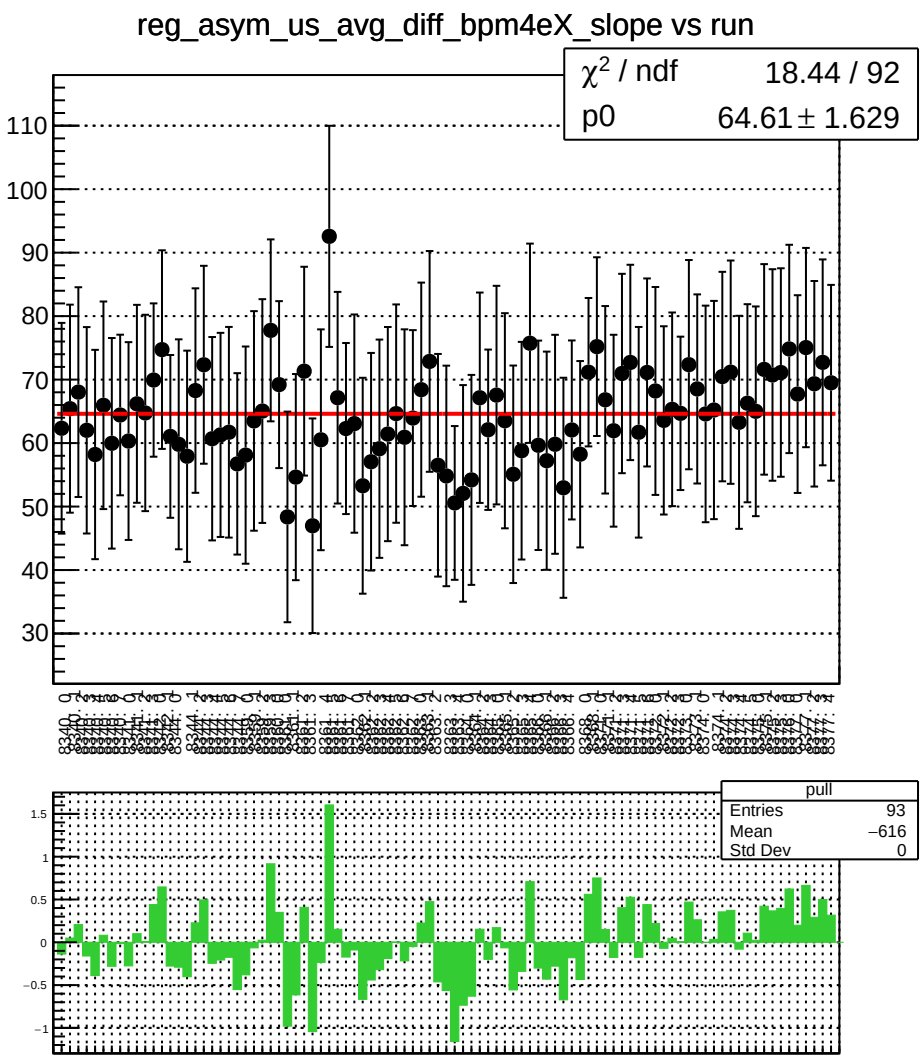

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 171 / 92
p0 0.04067 ± 0.04019
pull
Entries 93
Mean 194.5
Std Dev 0
pull1D
Entries 93
Mean −0.01881
Std Dev 1.356

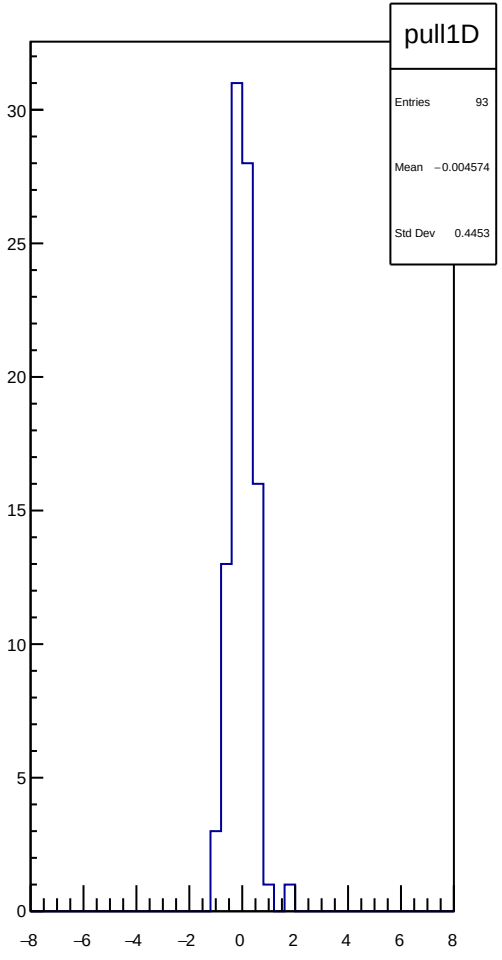

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 20 / 92
p0 −72.33 ± 1.419
pull
Entries 93
Mean −537.4
Std Dev 0

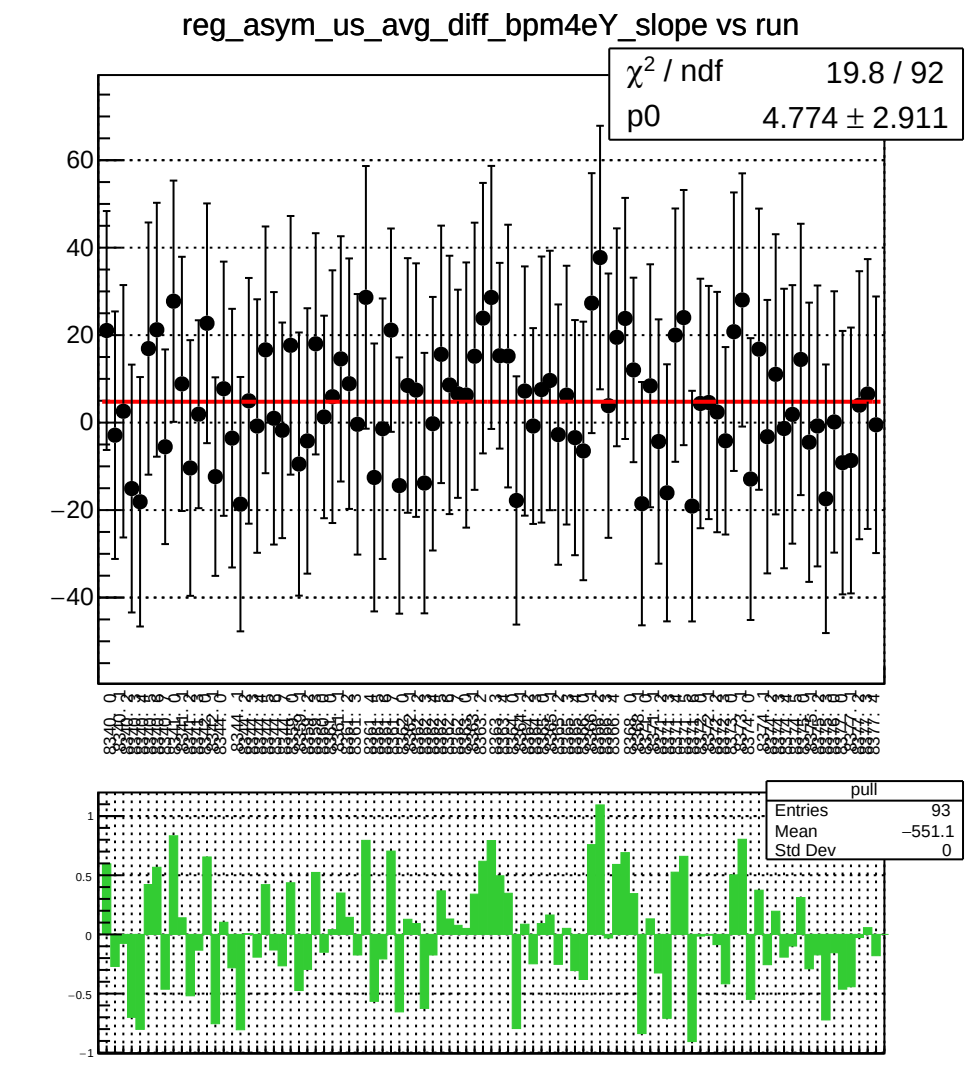

pull1D
Entries 93
Mean 0.006724
Std Dev 0.4637

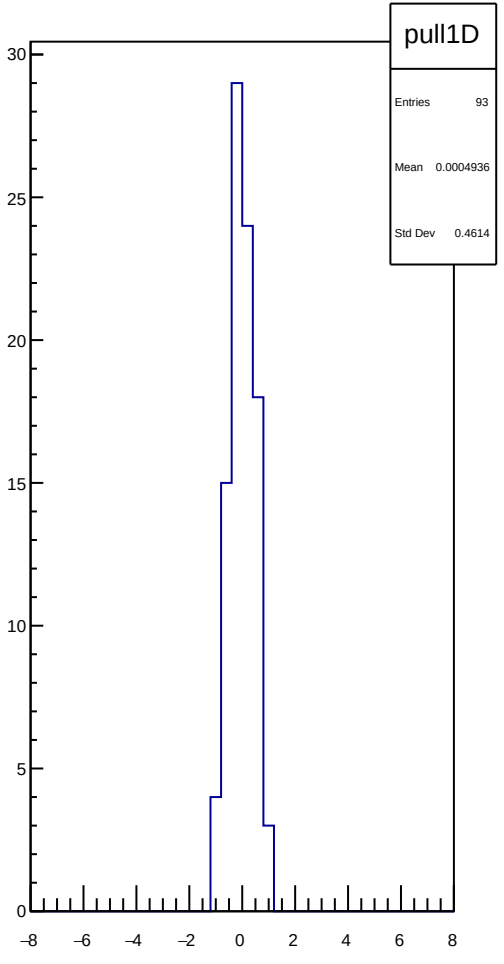

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.67 / 92
p0 14.32 ± 2.819
pull
Entries 93
Mean 1963
Std Dev 0

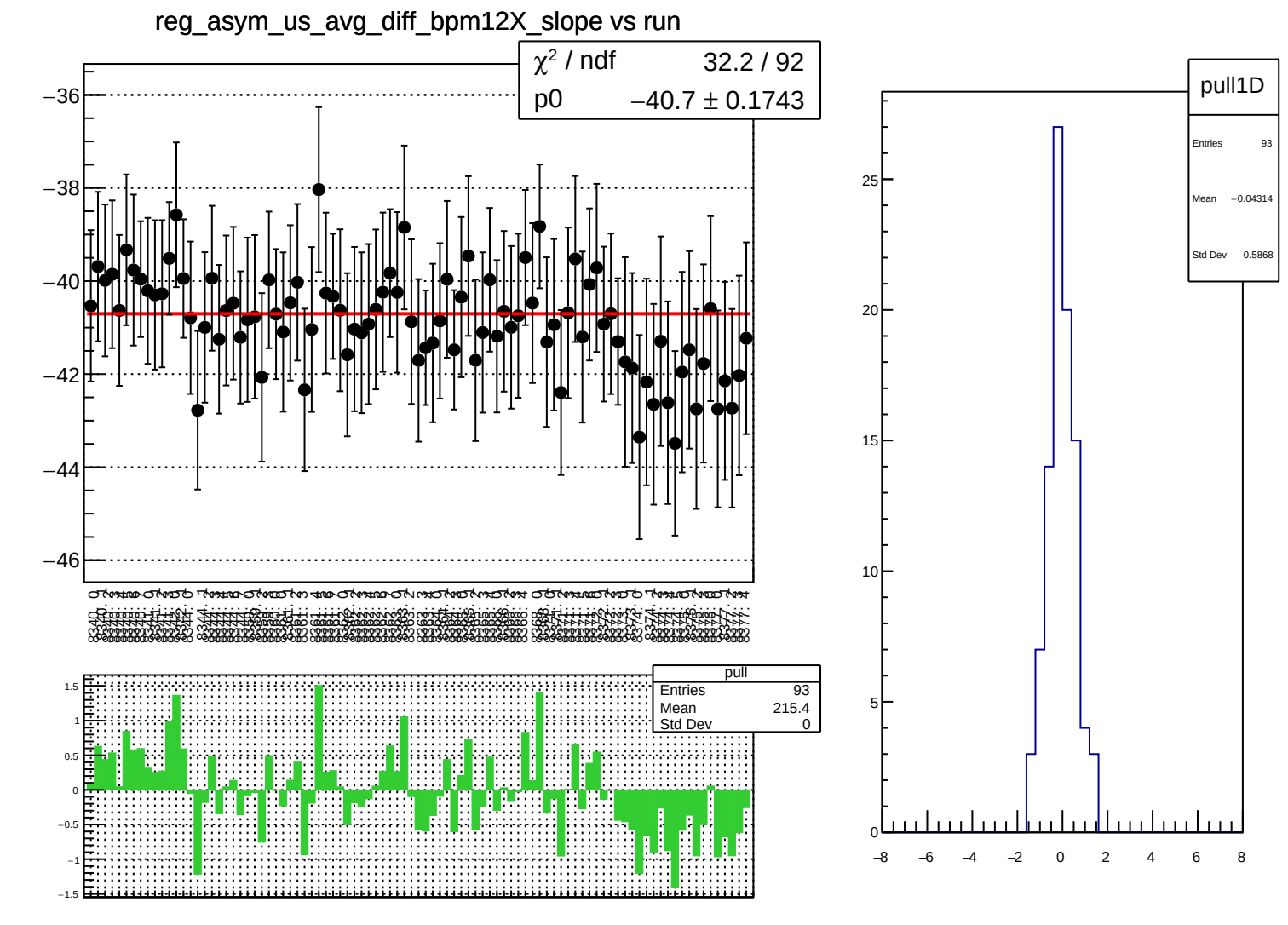

pull1D
Entries 93
Mean 0.0005715
Std Dev 0.4599

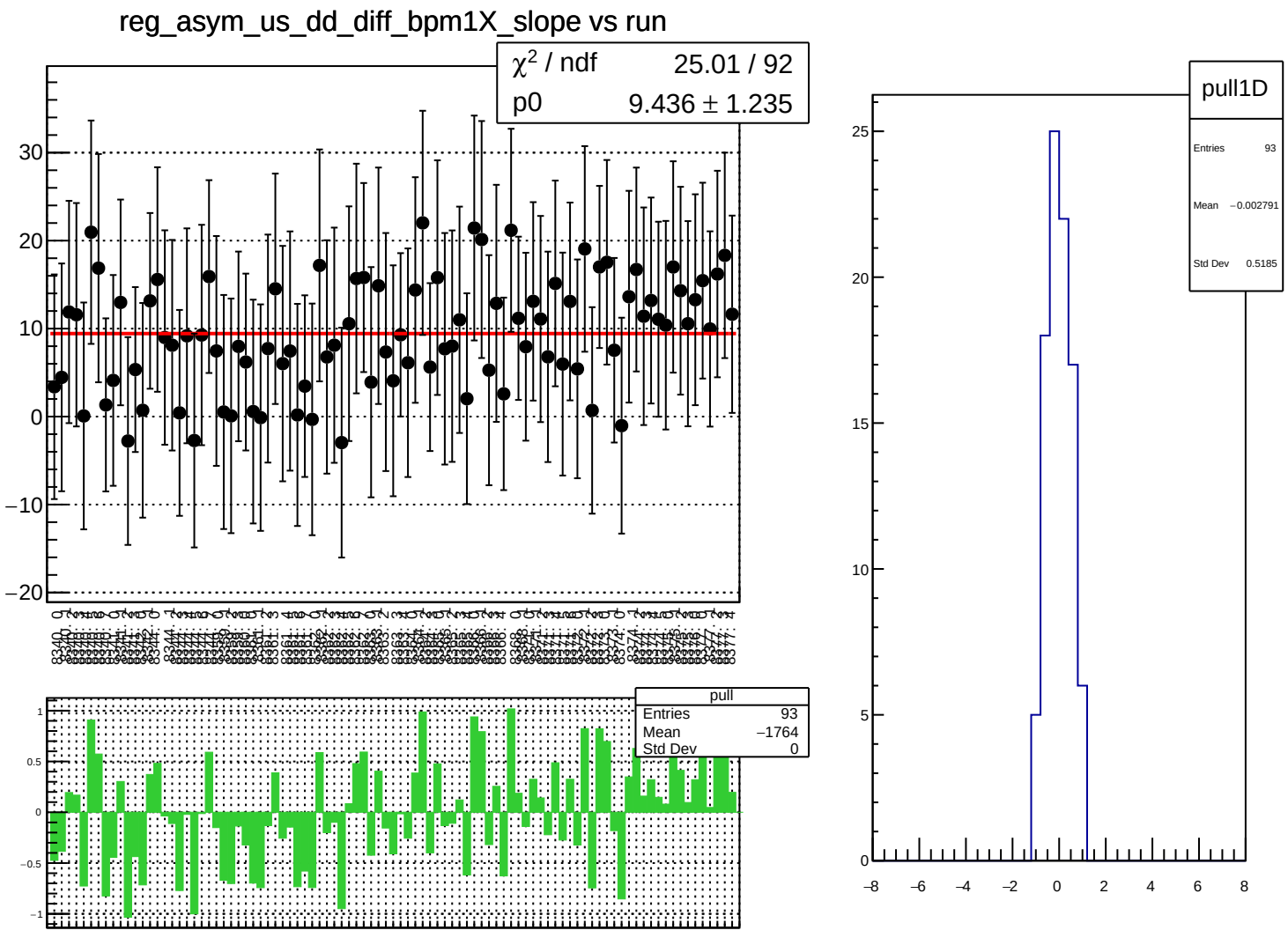

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.44 / 92
p0 64.61 ± 1.629
pull
Entries 93
Mean −616
Std Dev 0

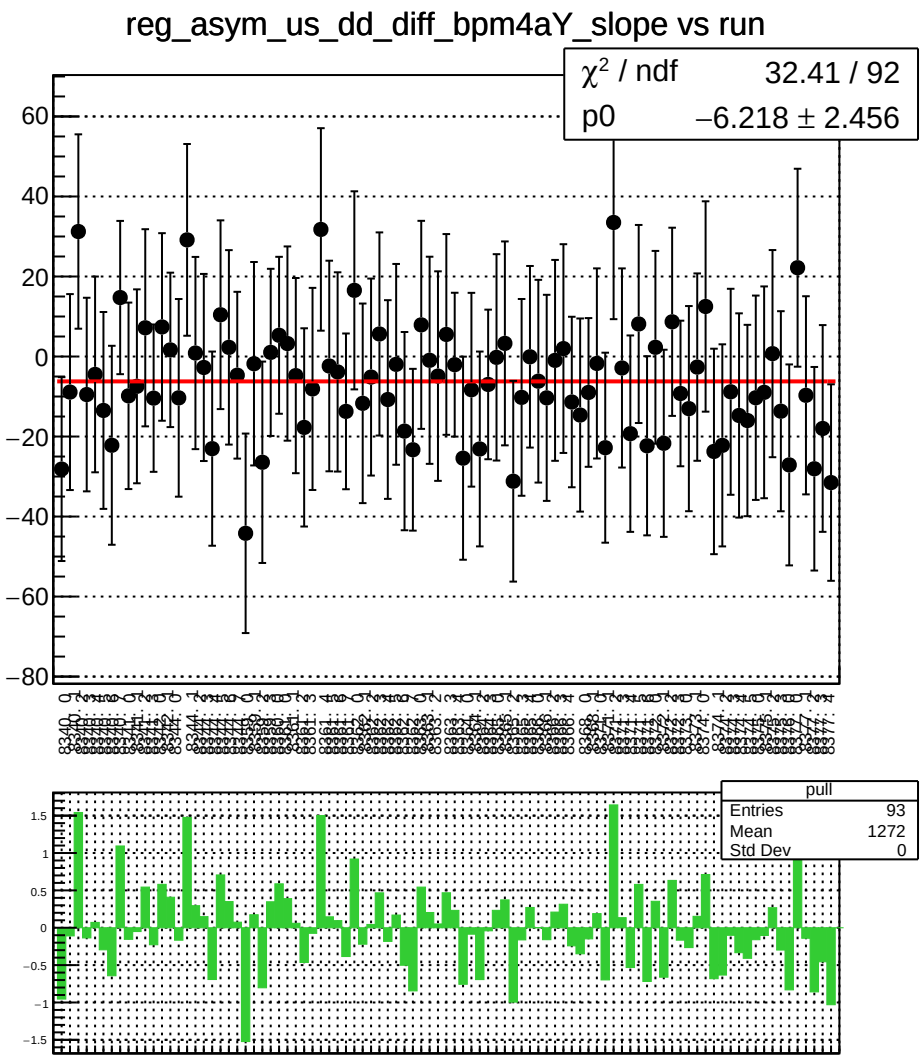

pull1D
Entries 93
Mean −0.004574
Std Dev 0.4453

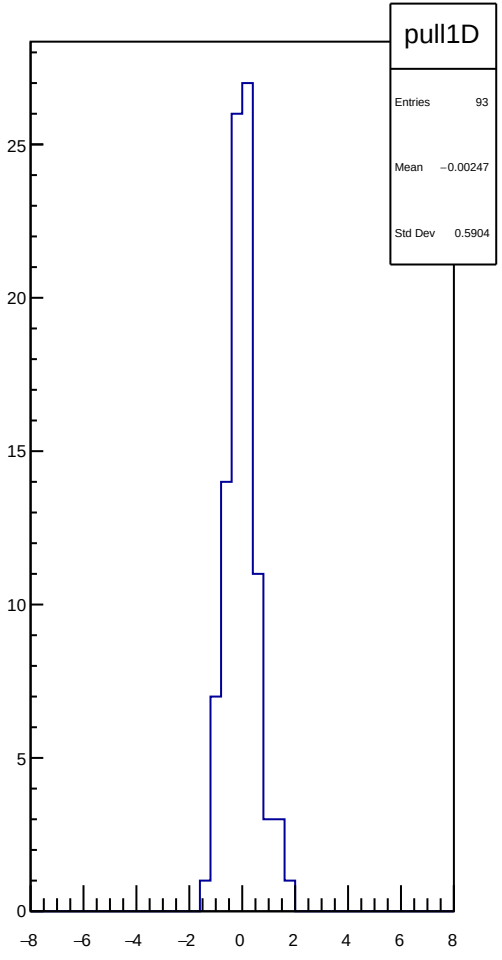

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.8 / 92
p0 4.774 ± 2.911
pull
Entries 93
Mean −551.1
Std Dev 0

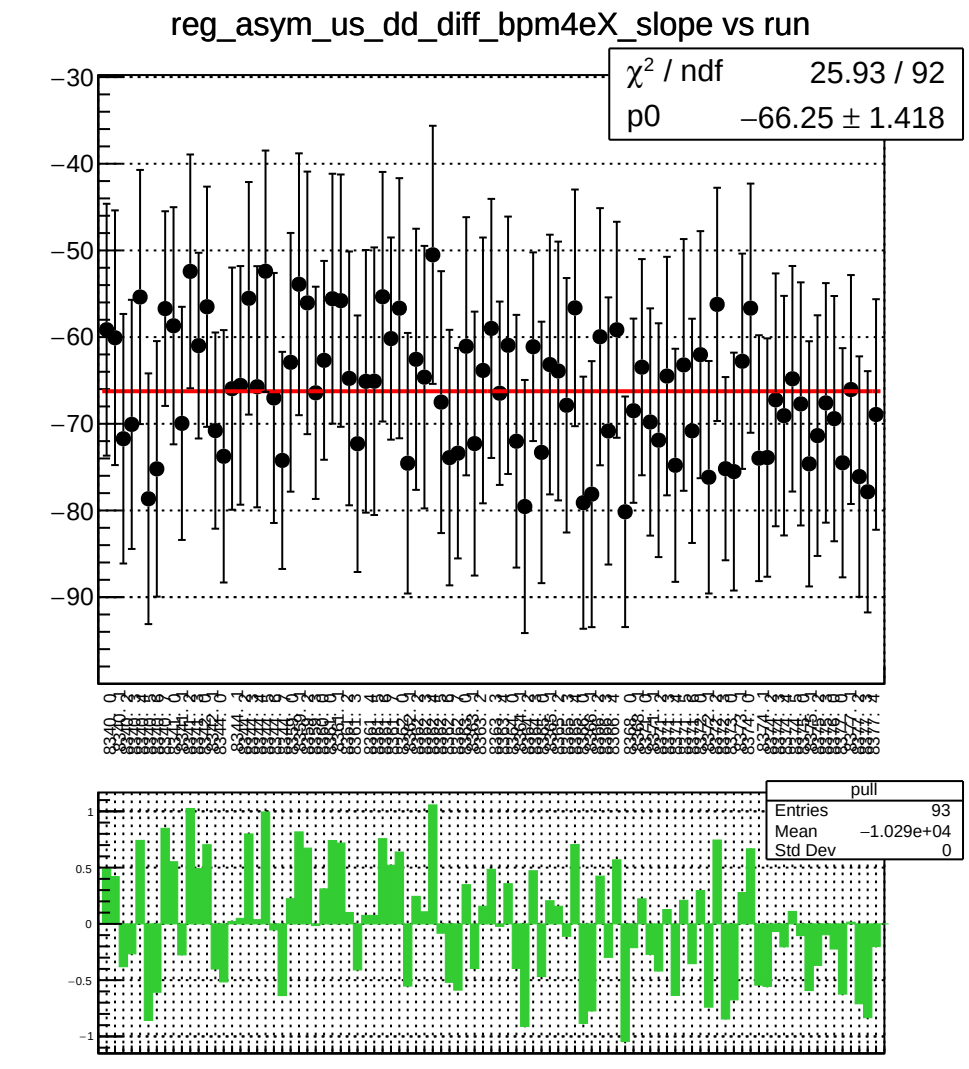

pull1D
Entries 93
Mean 0.0004936
Std Dev 0.4614

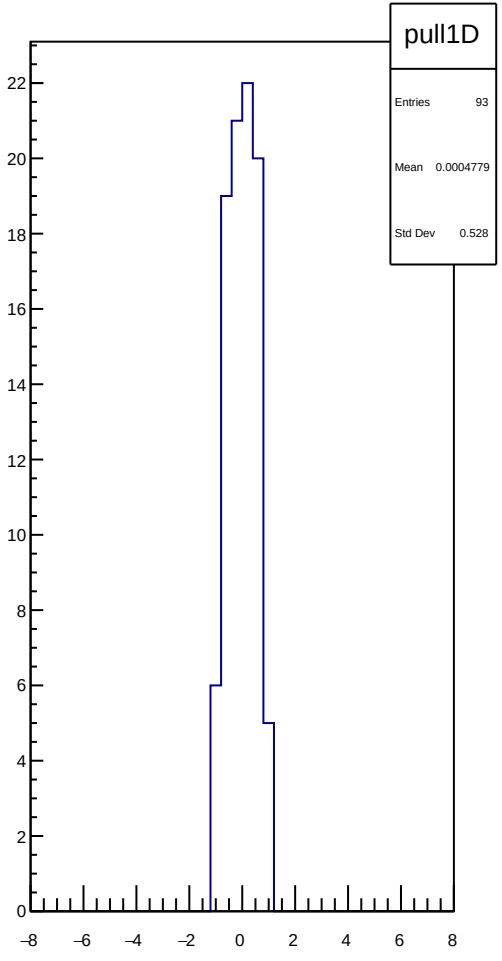

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 32.2 / 92
p0 −40.7 ± 0.1743
−36
−38
−40
−42
−44
−46
pull
Entries 93
Mean 215.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.04314
Std Dev 0.5868
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

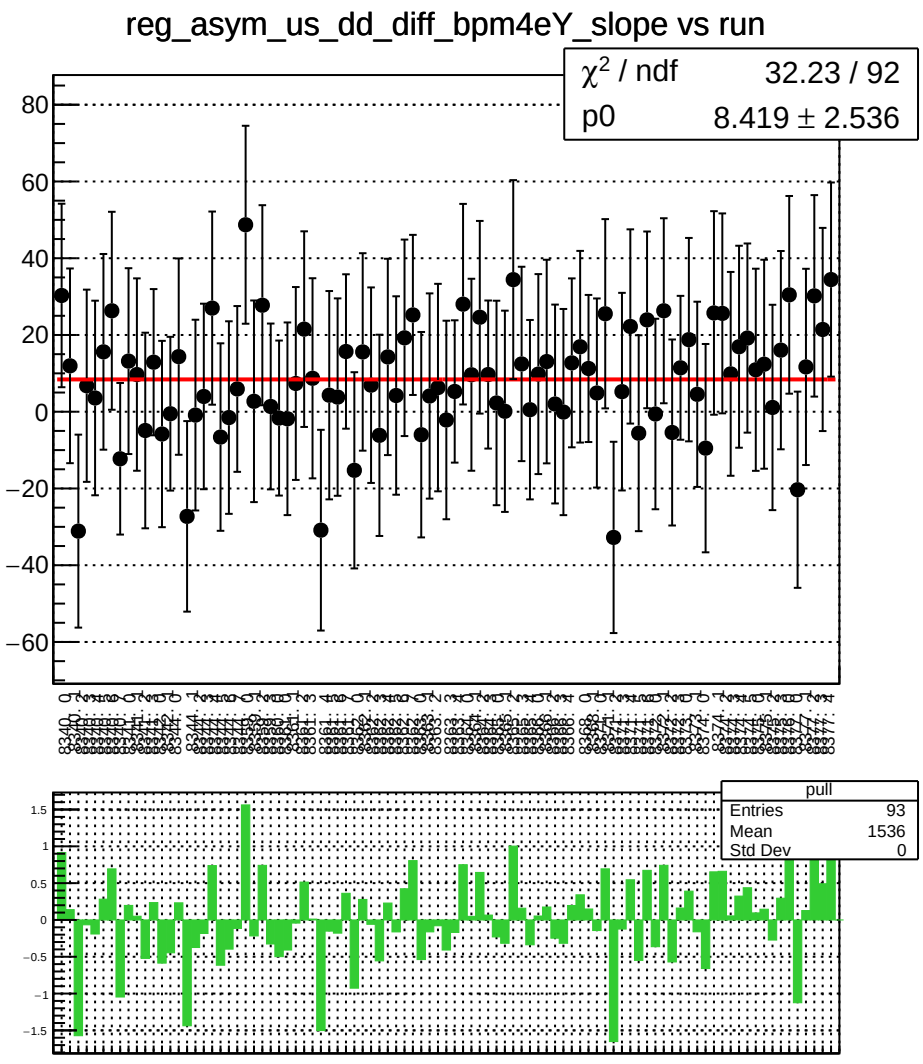

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 25.01 / 92
p0 9.436 ± 1.235
pull
Entries 93
Mean −1764
Std Dev 0
pull1D
Entries 93
Mean −0.002791
Std Dev 0.5185

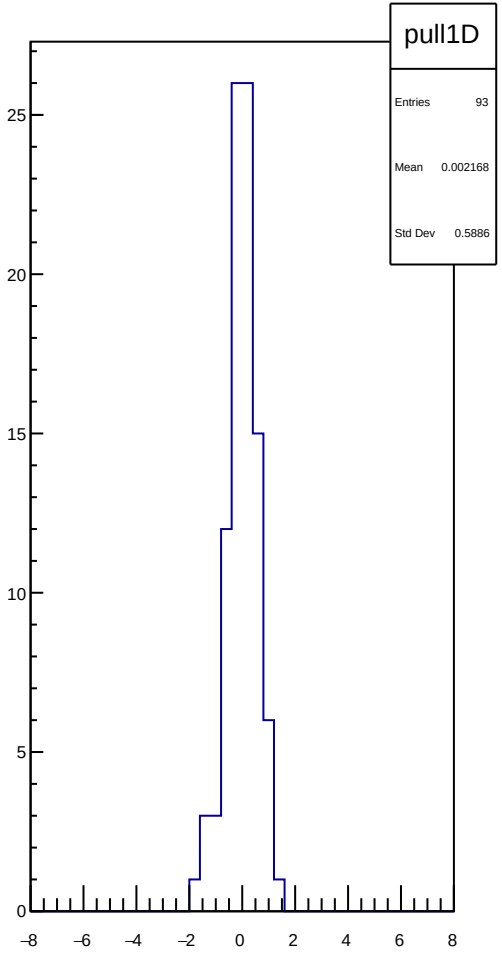

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.41 / 92
p0 −6.218 ± 2.456
pull
Entries 93
Mean 1272
Std Dev 0

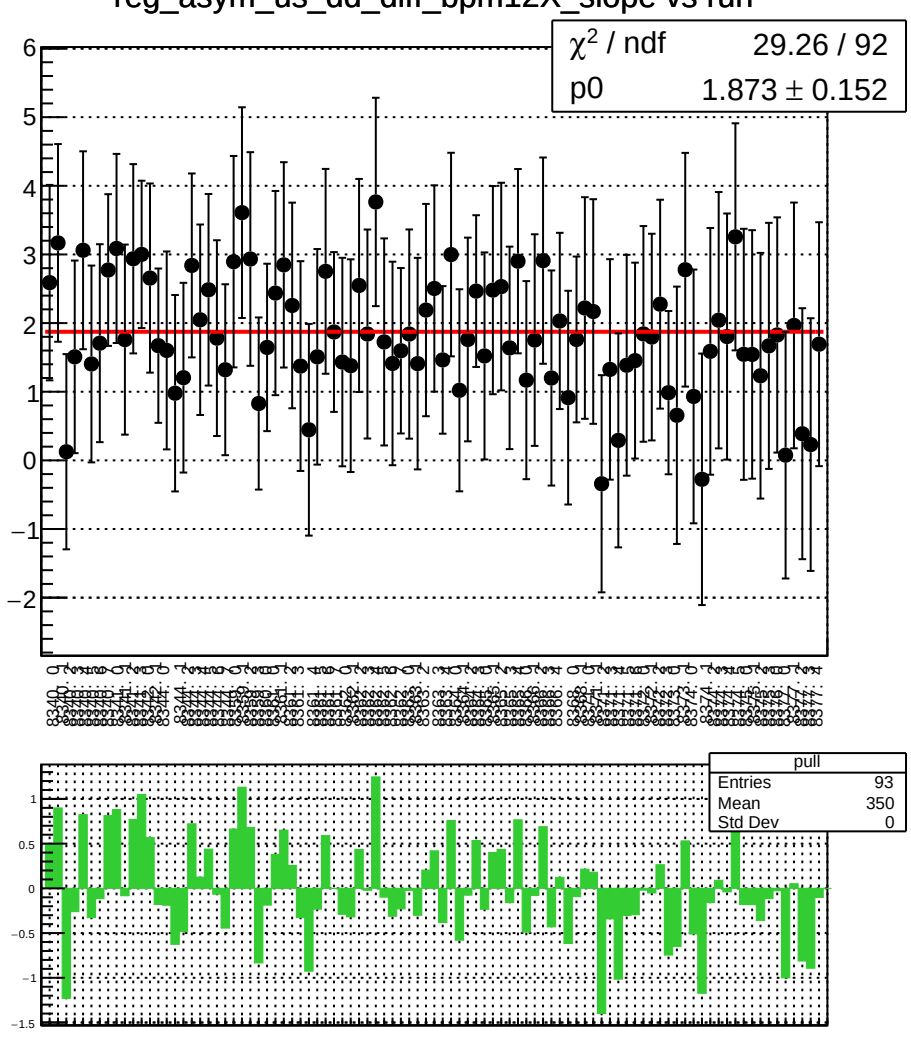

pull1D
Entries 93
Mean −0.00247
Std Dev 0.5904

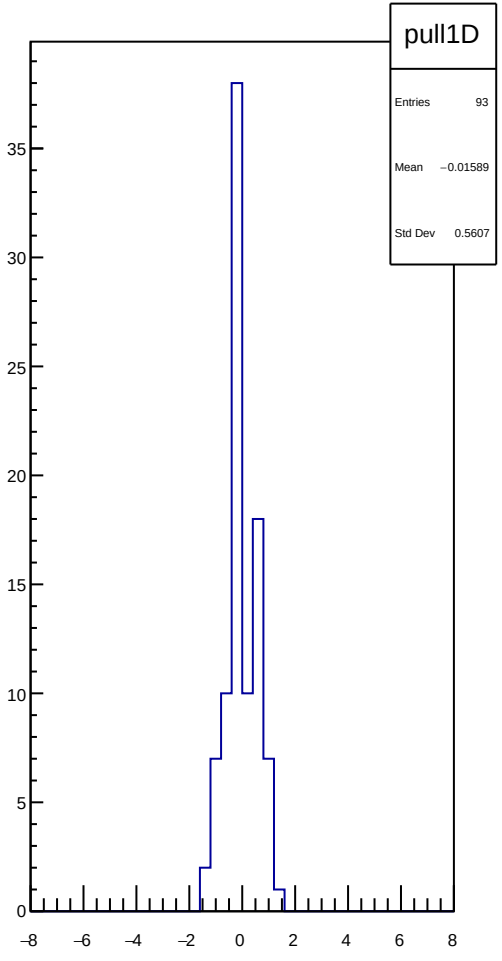

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.93 / 92
p0 −66.25 ± 1.418
pull
Entries 93
Mean −1.029e+04
Std Dev 0

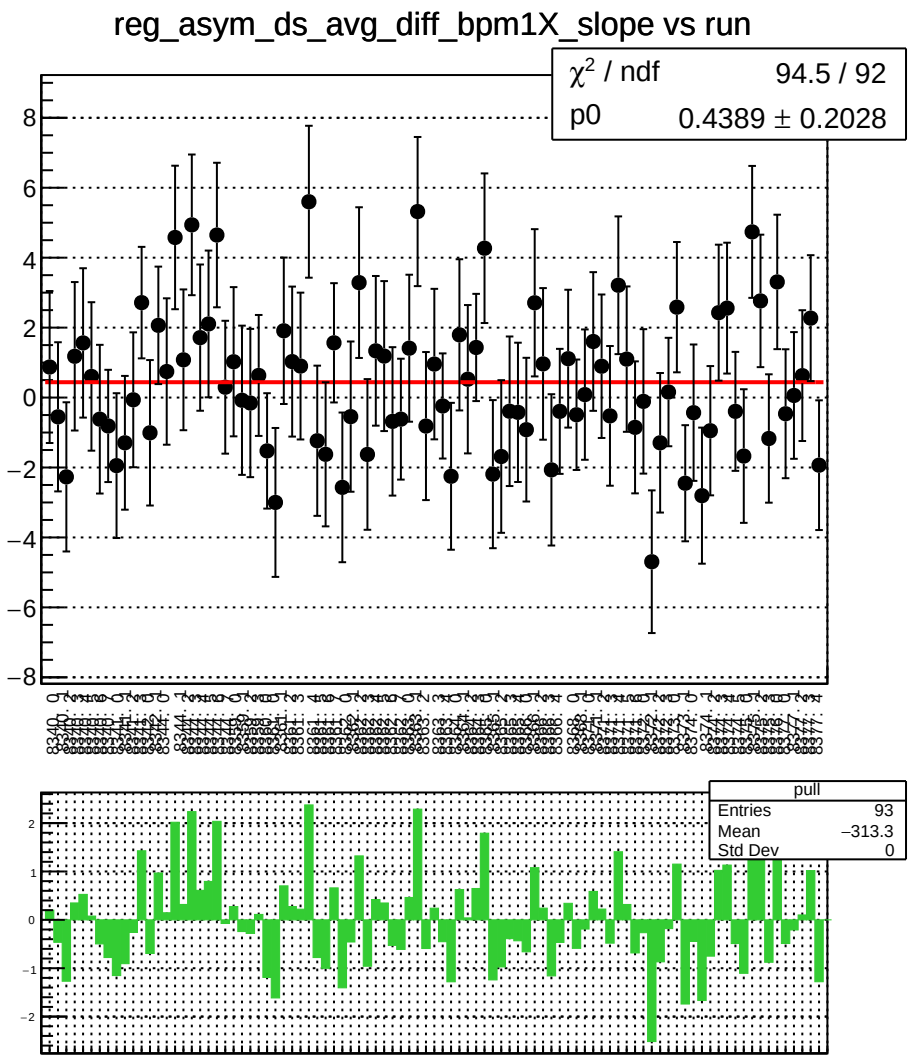

pull1D
Entries 93
Mean 0.0004779
Std Dev 0.528

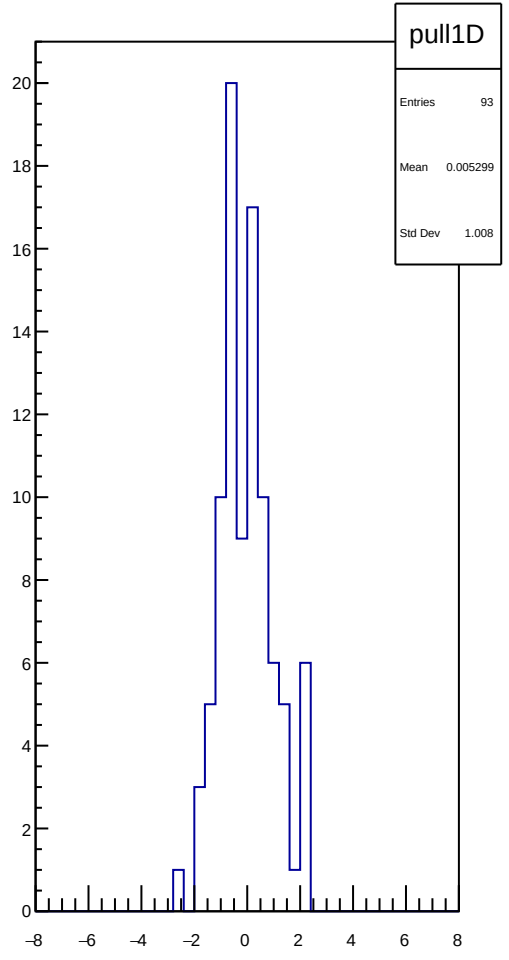

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.23 / 92
p0 8.419 ± 2.536
pull
Entries 93
Mean 1536
Std Dev 0

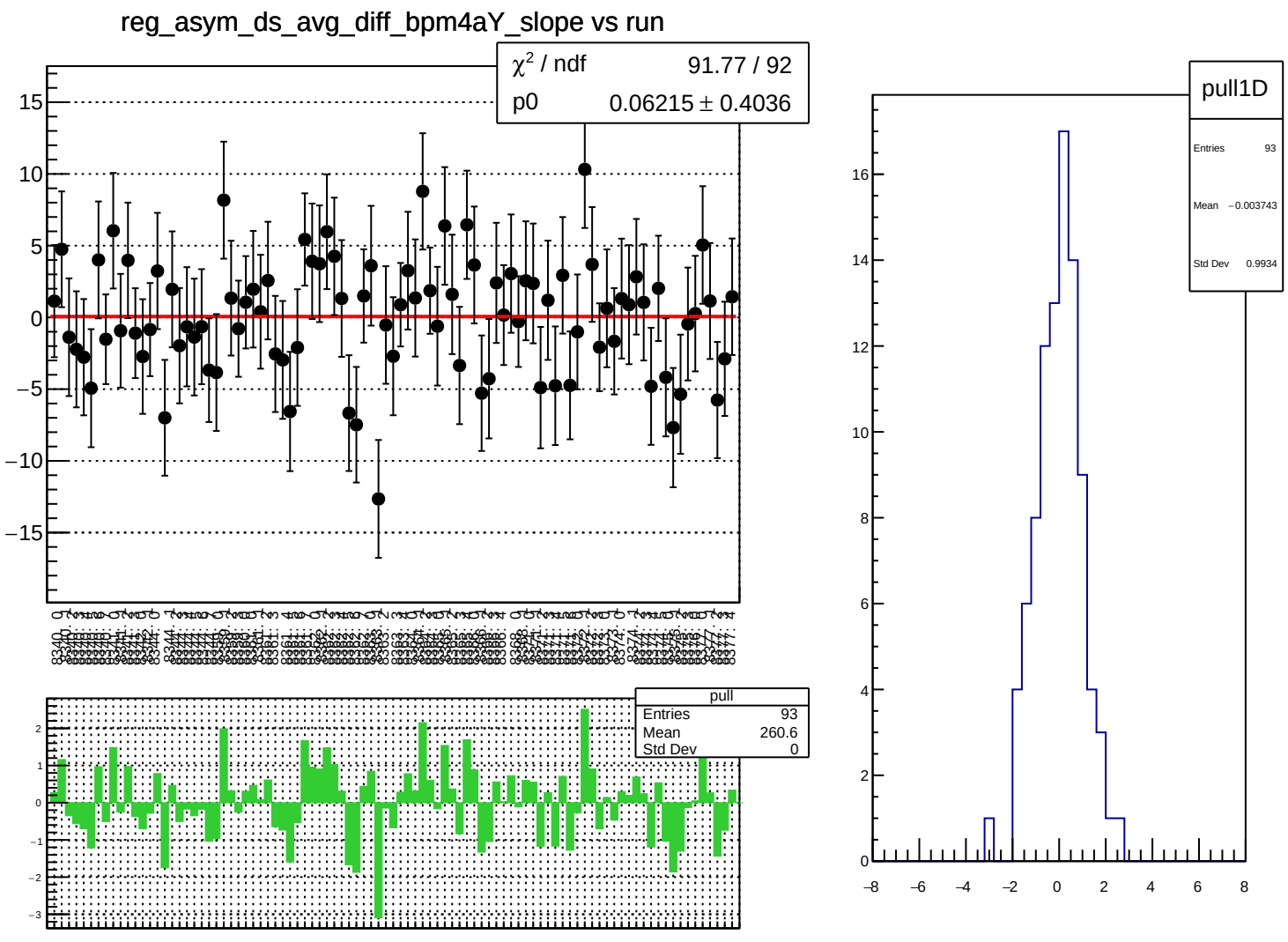

pull1D
Entries 93
Mean 0.002168
Std Dev 0.5886

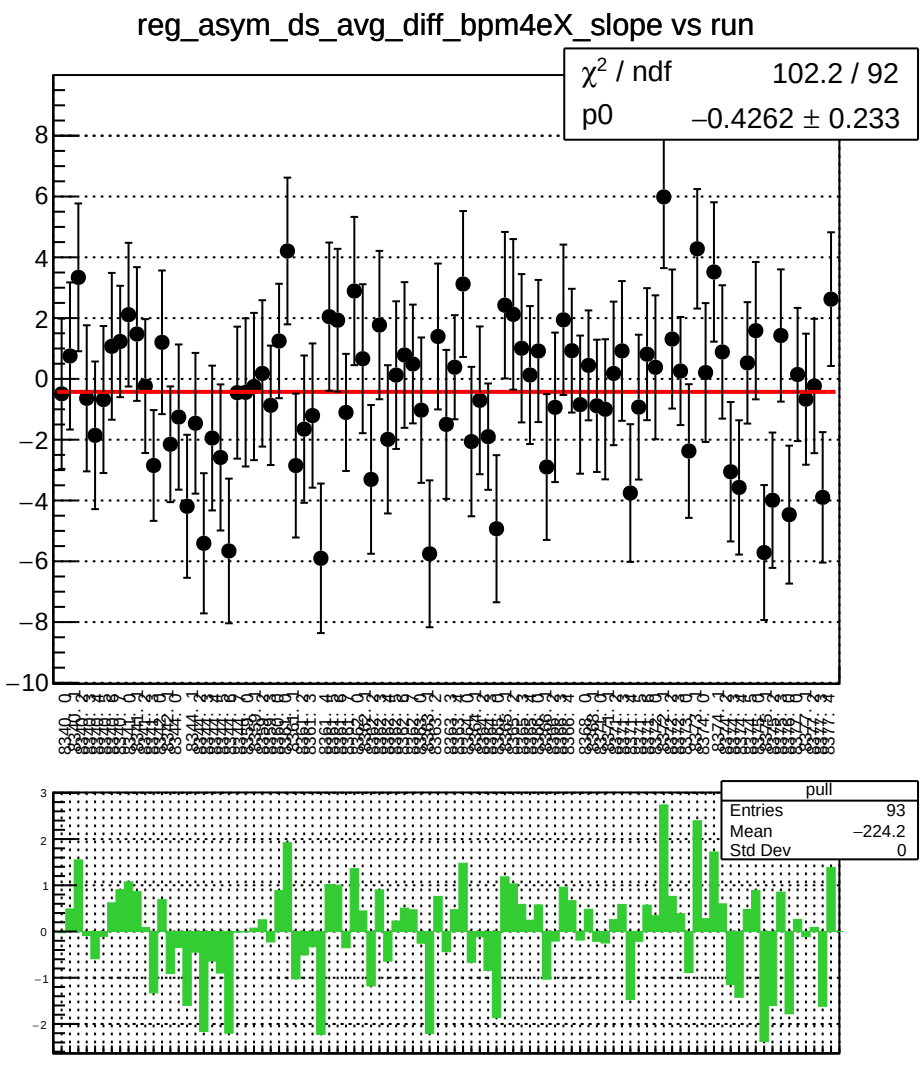

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 29.26 / 92
p0 1.873 ± 0.152
pull
Entries 93
Mean 350
Std Dev 0

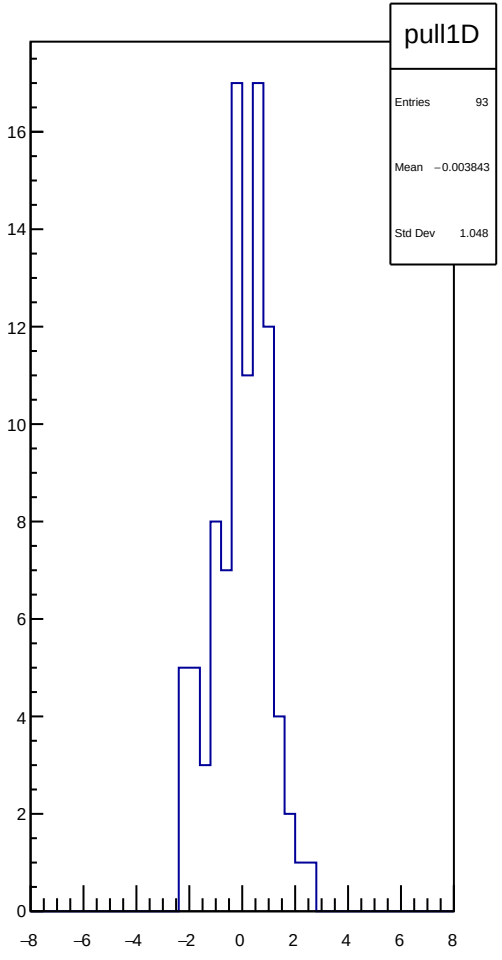

pull1D
Entries 93
Mean −0.01589
Std Dev 0.5607

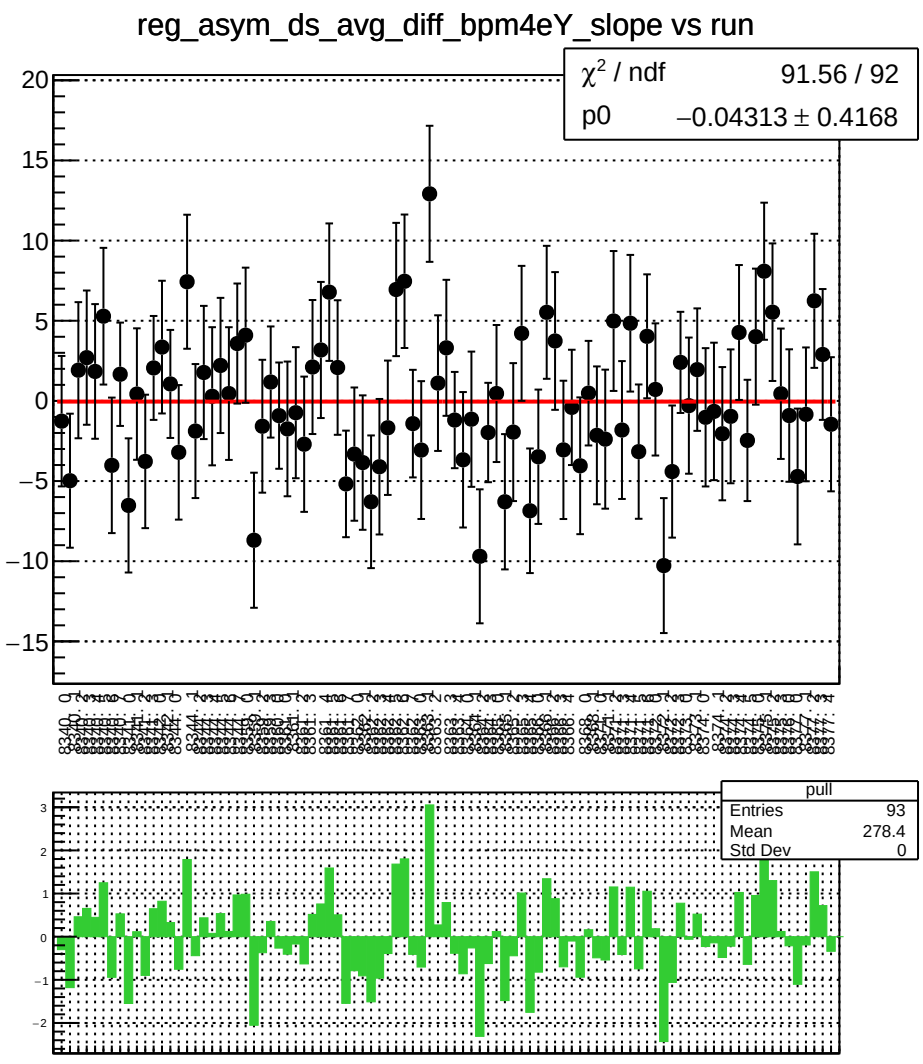

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 94.5 / 92
p0 0.4389 ± 0.2028
pull
Entries 93
Mean −313.3
Std Dev 0

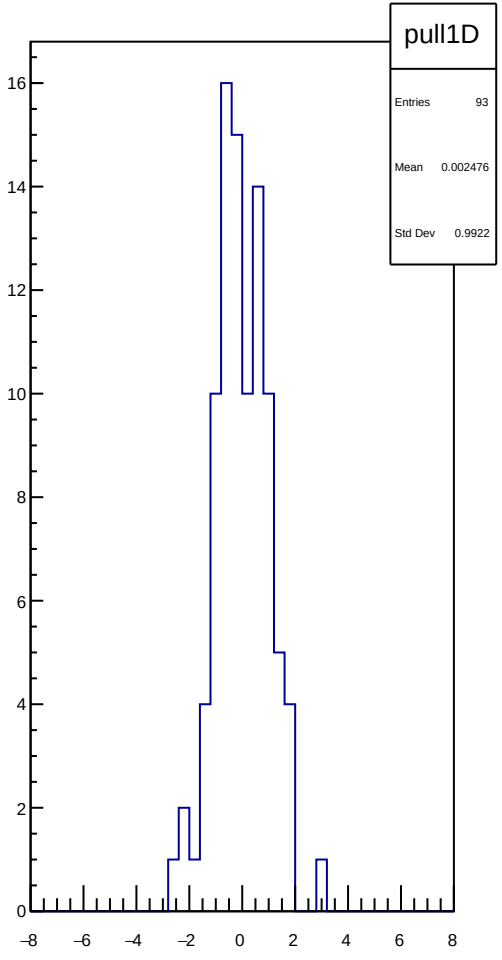

pull1D
Entries 93
Mean 0.005299
Std Dev 1.008

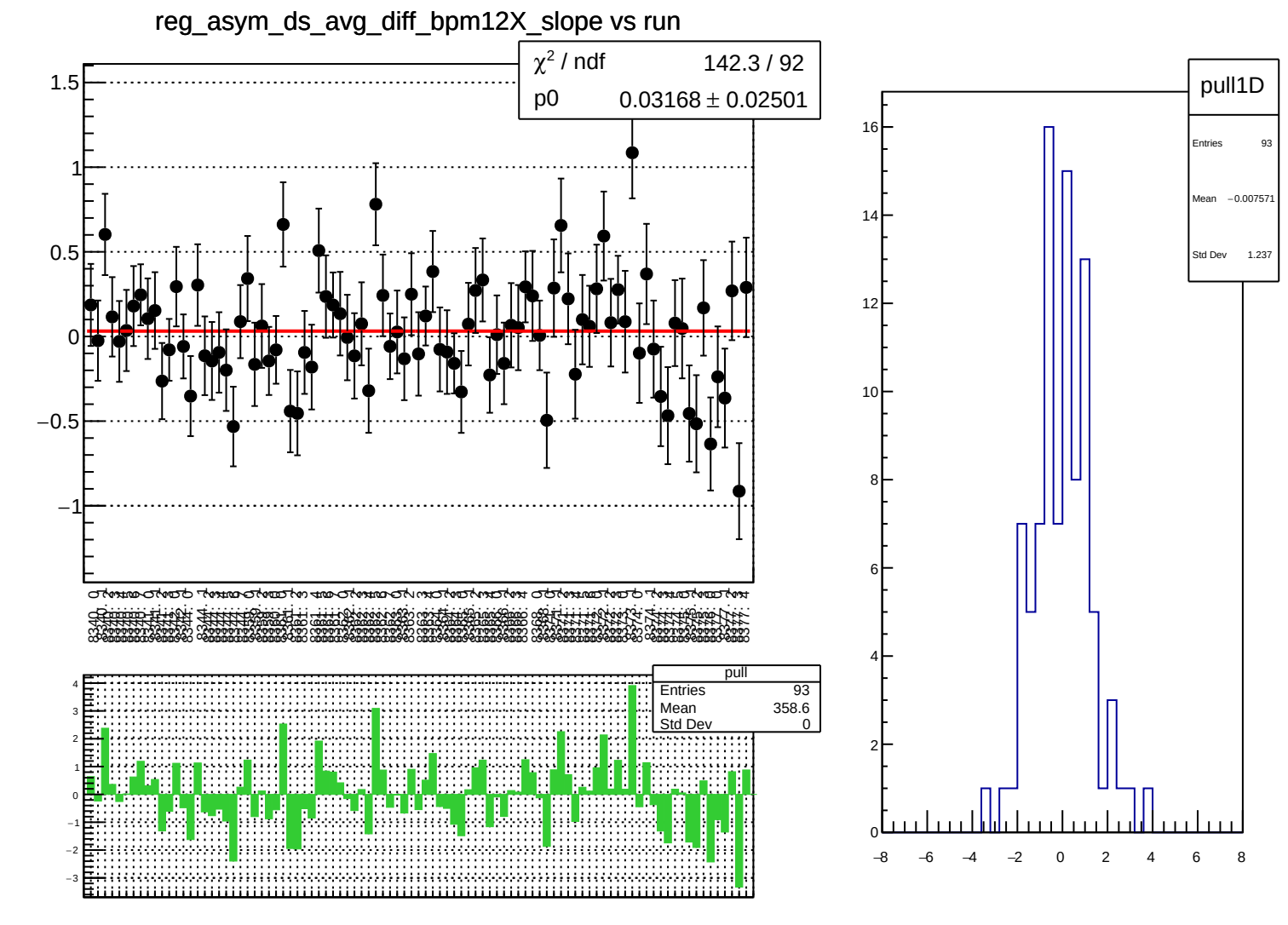

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.77 / 92
p0 0.06215 ± 0.4036
pull
Entries 93
Mean 260.6
Std Dev 0
pull1D
Entries 93
Mean −0.003743
Std Dev 0.9934

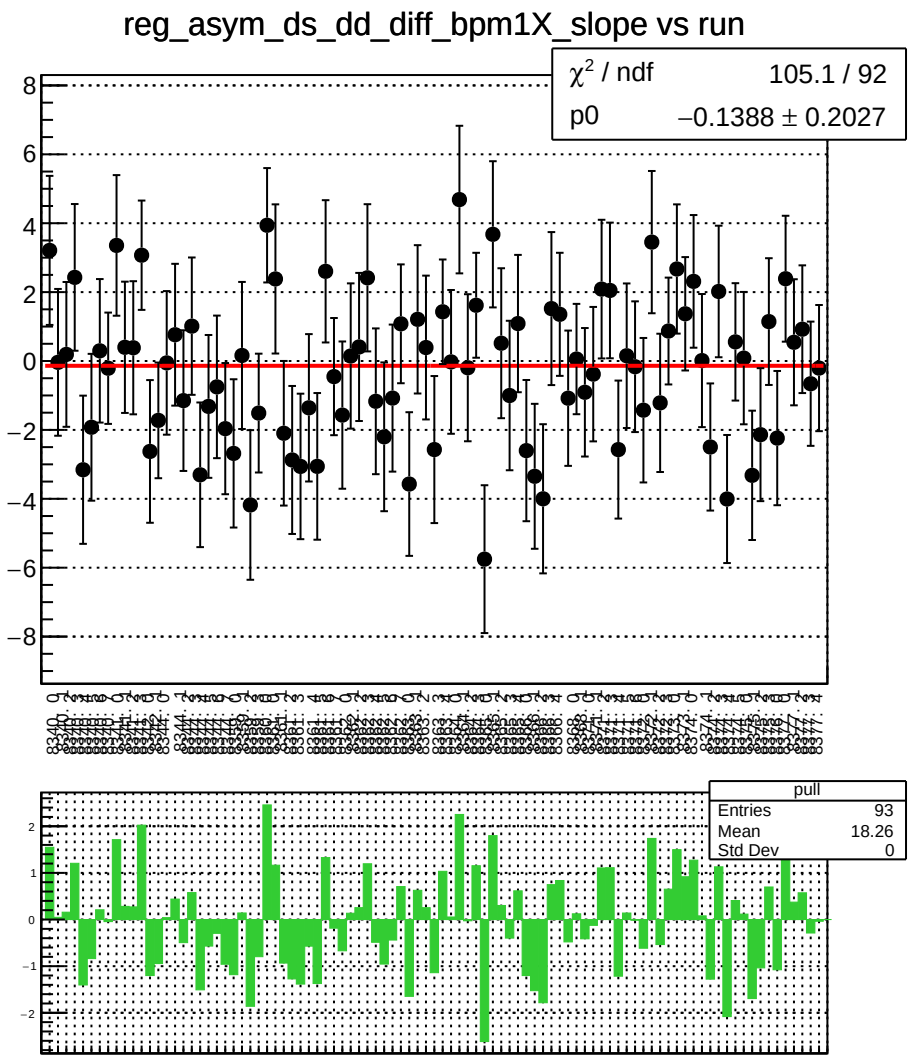

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.2 / 92
p0 −0.4262 ± 0.233
pull
Entries 93
Mean −224.2
Std Dev 0

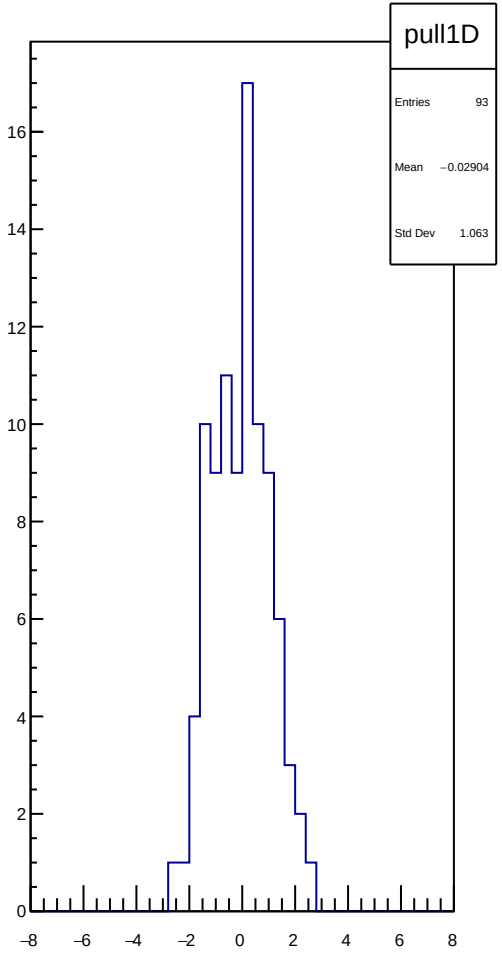

pull1D
Entries 93
Mean −0.003843
Std Dev 1.048

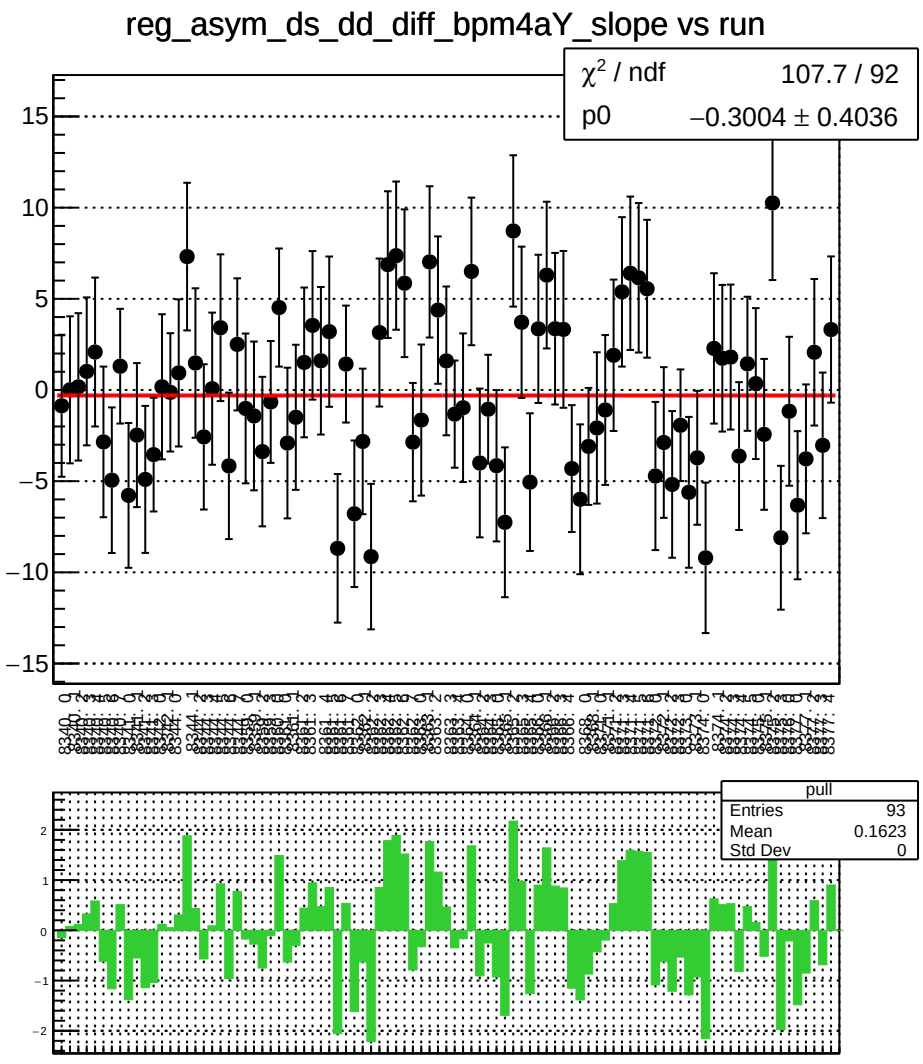

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.56 / 92
p0 −0.04313 ± 0.4168
pull
Entries 93
Mean 278.4
Std Dev 0

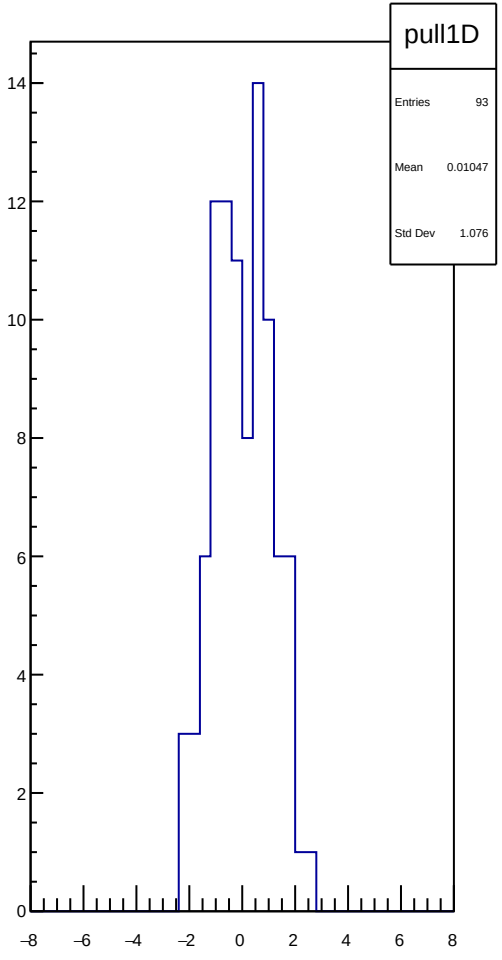

pull1D
Entries 93
Mean 0.002476
Std Dev 0.9922

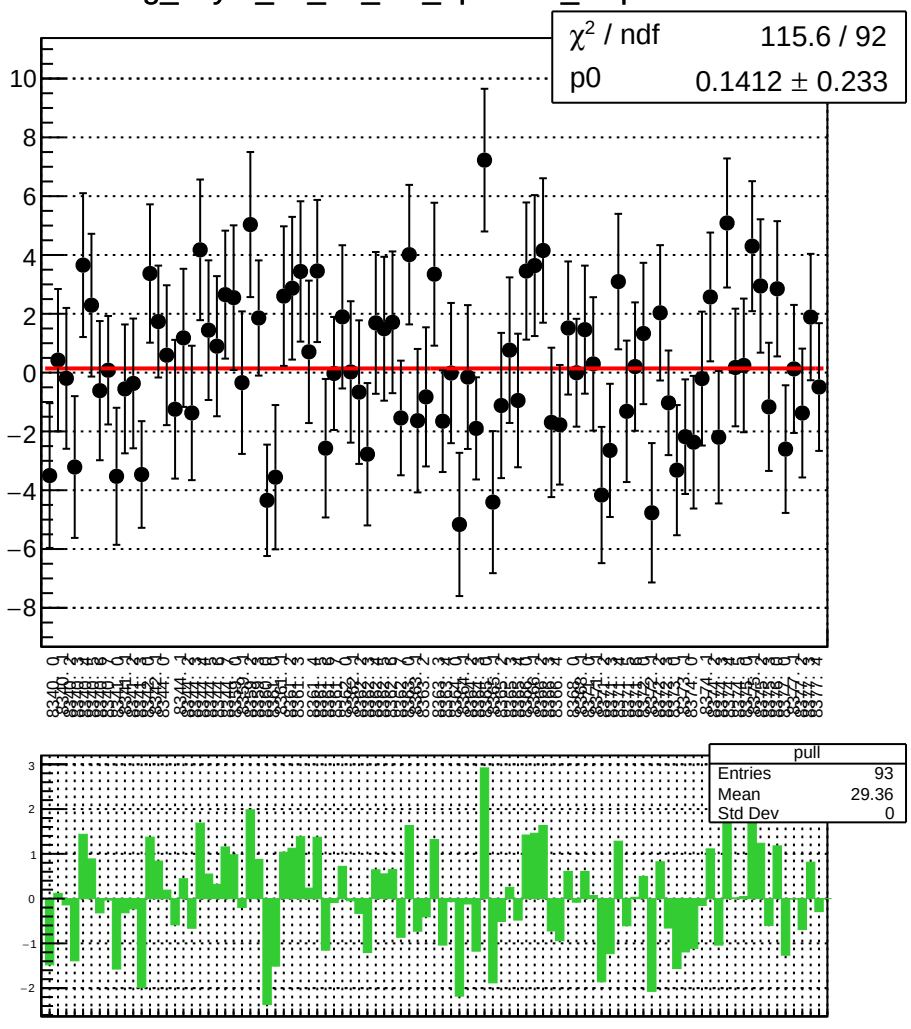

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 142.3 / 92
p0 0.03168 ± 0.02501
pull
Entries 93
Mean 358.6
Std Dev 0
pull1D
Entries 93
Mean −0.007571
Std Dev 1.237

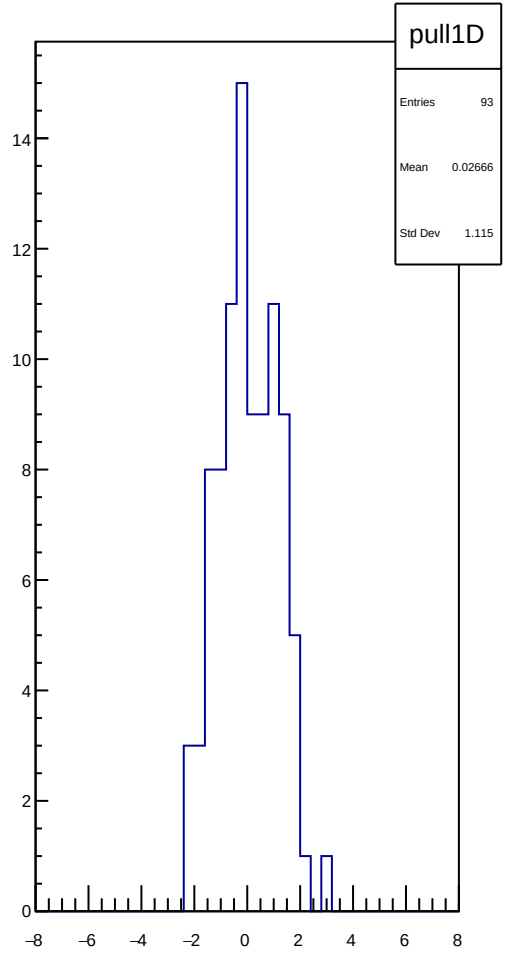

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 105.1 / 92
p0 −0.1388 ± 0.2027
pull
Entries 93
Mean 18.26
Std Dev 0

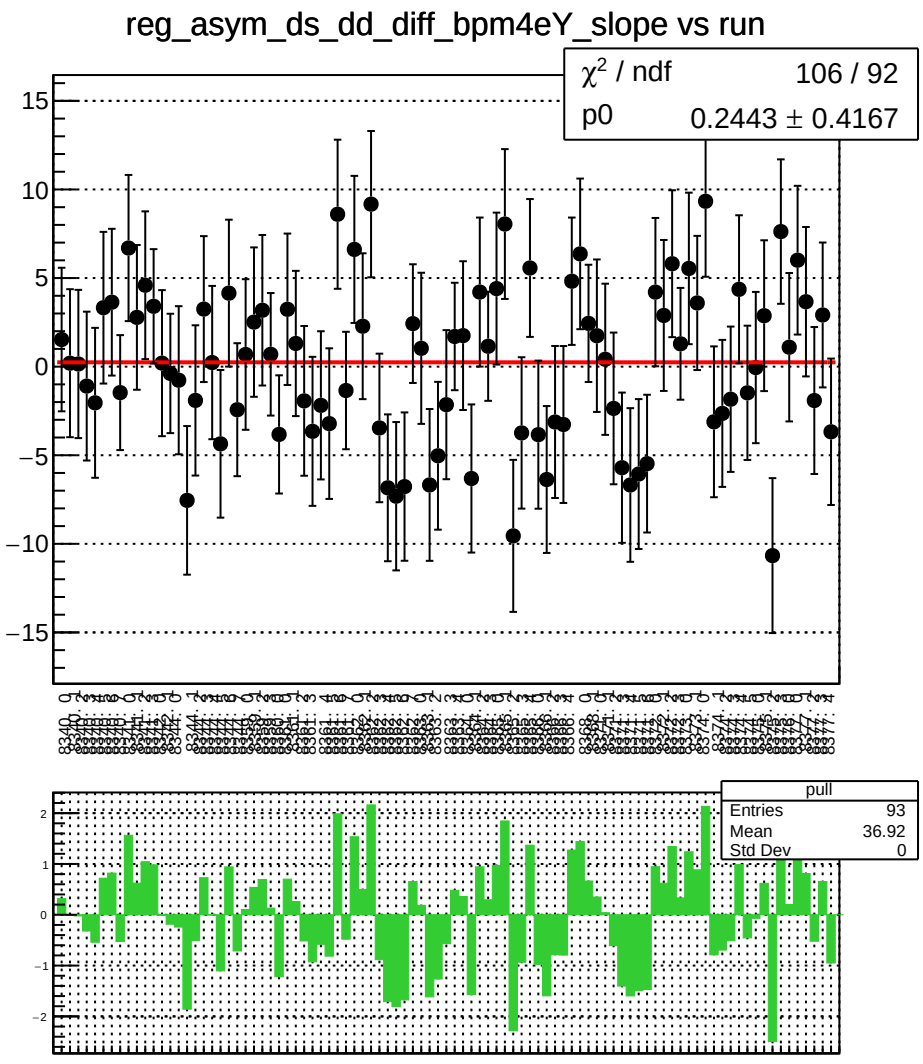

pull1D
Entries 93
Mean −0.02904
Std Dev 1.063

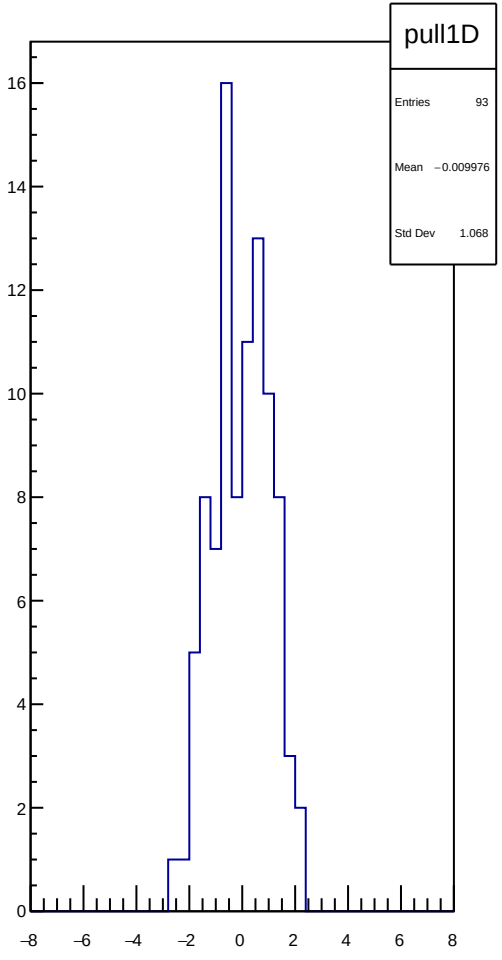

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.7 / 92
p0 −0.3004 ± 0.4036
pull
Entries 93
Mean 0.1623
Std Dev 0

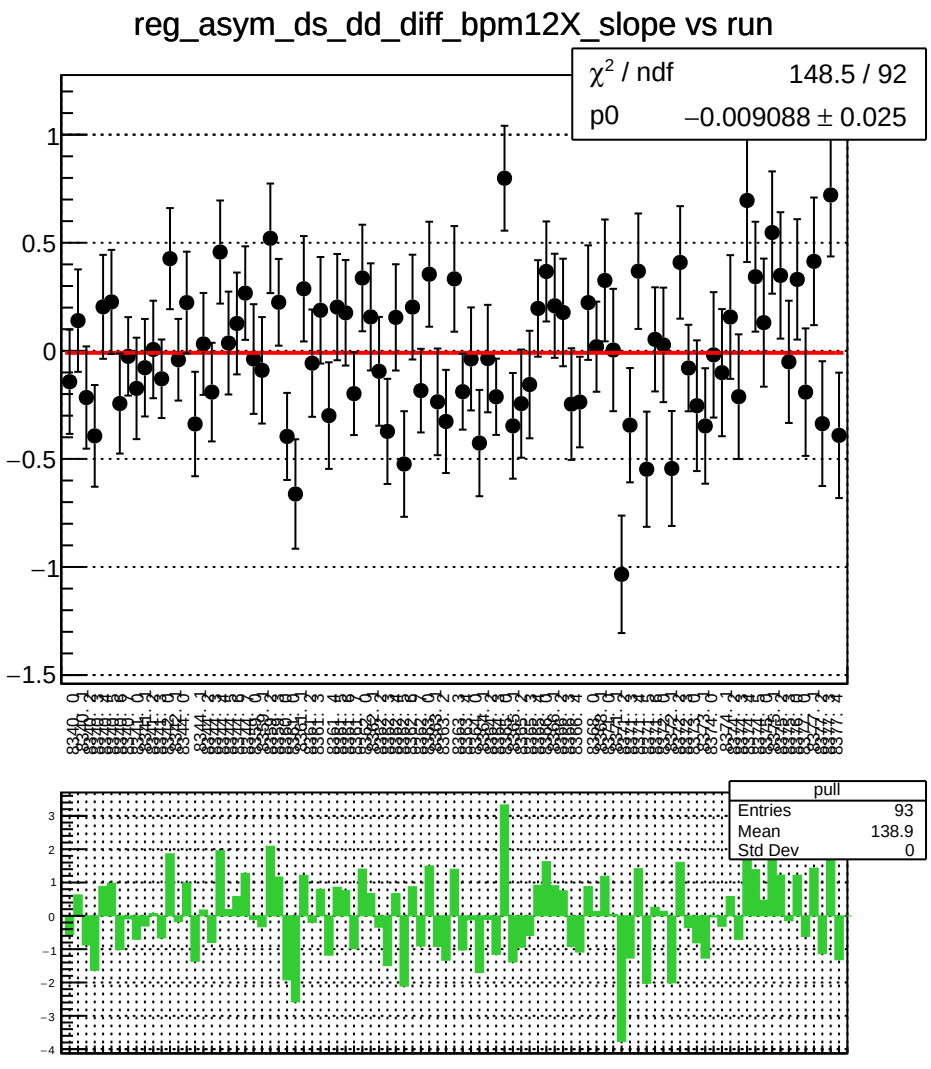

pull1D
Entries 93
Mean 0.01047
Std Dev 1.076

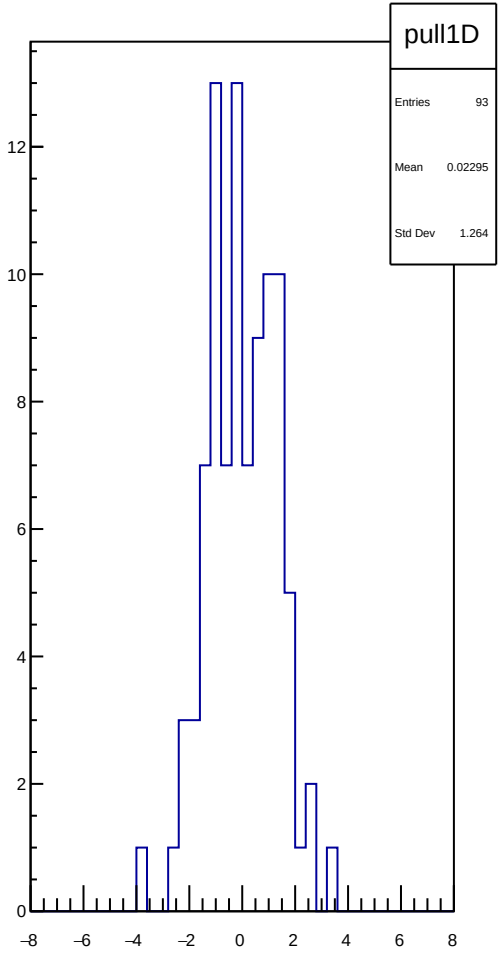

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.6 / 92
p0 0.1412 ± 0.233
pull
Entries 93
Mean 29.36
Std Dev 0

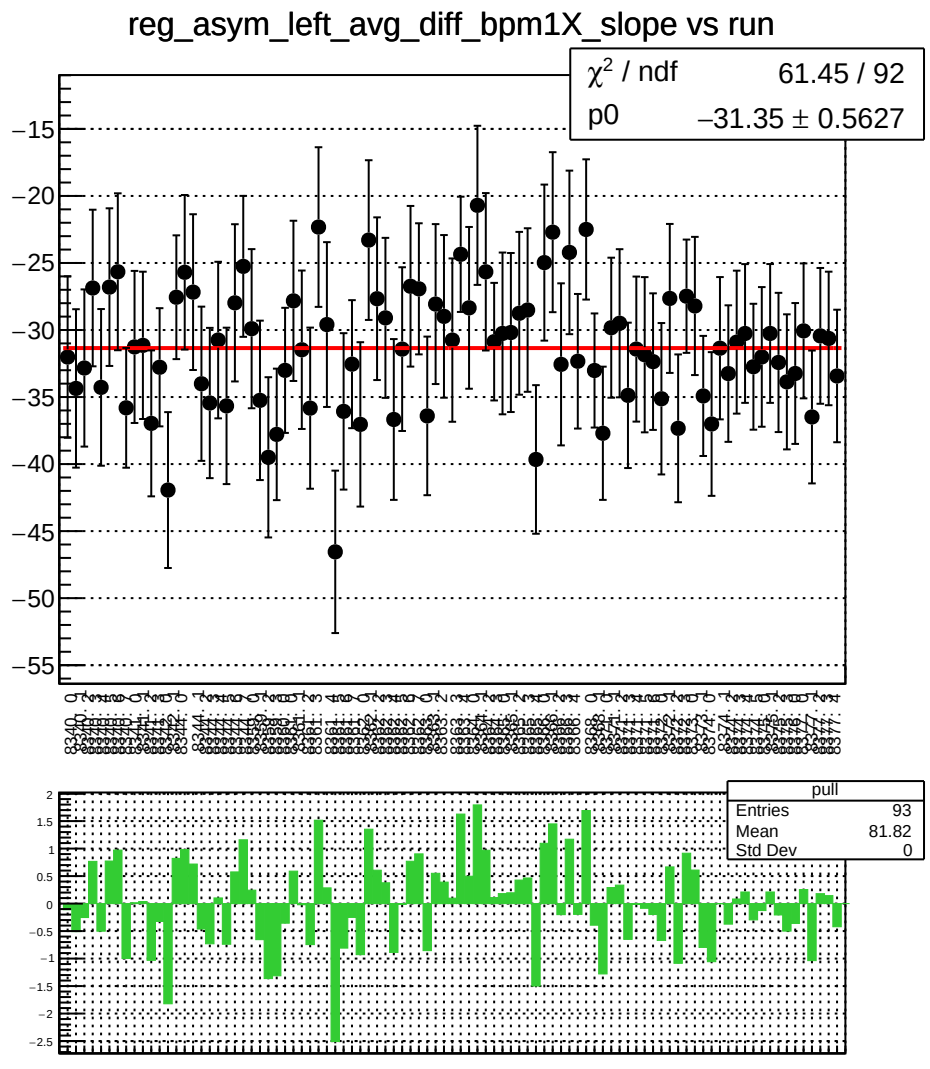

pull1D
Entries 93
Mean 0.02666
Std Dev 1.115

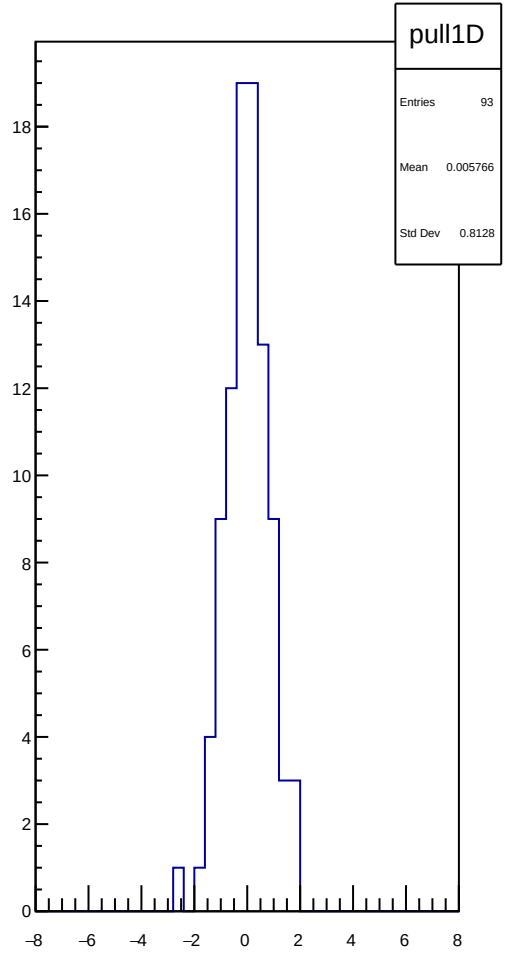

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 106 / 92
p0 0.2443 ± 0.4167
pull
Entries 93
Mean 36.92
Std Dev 0

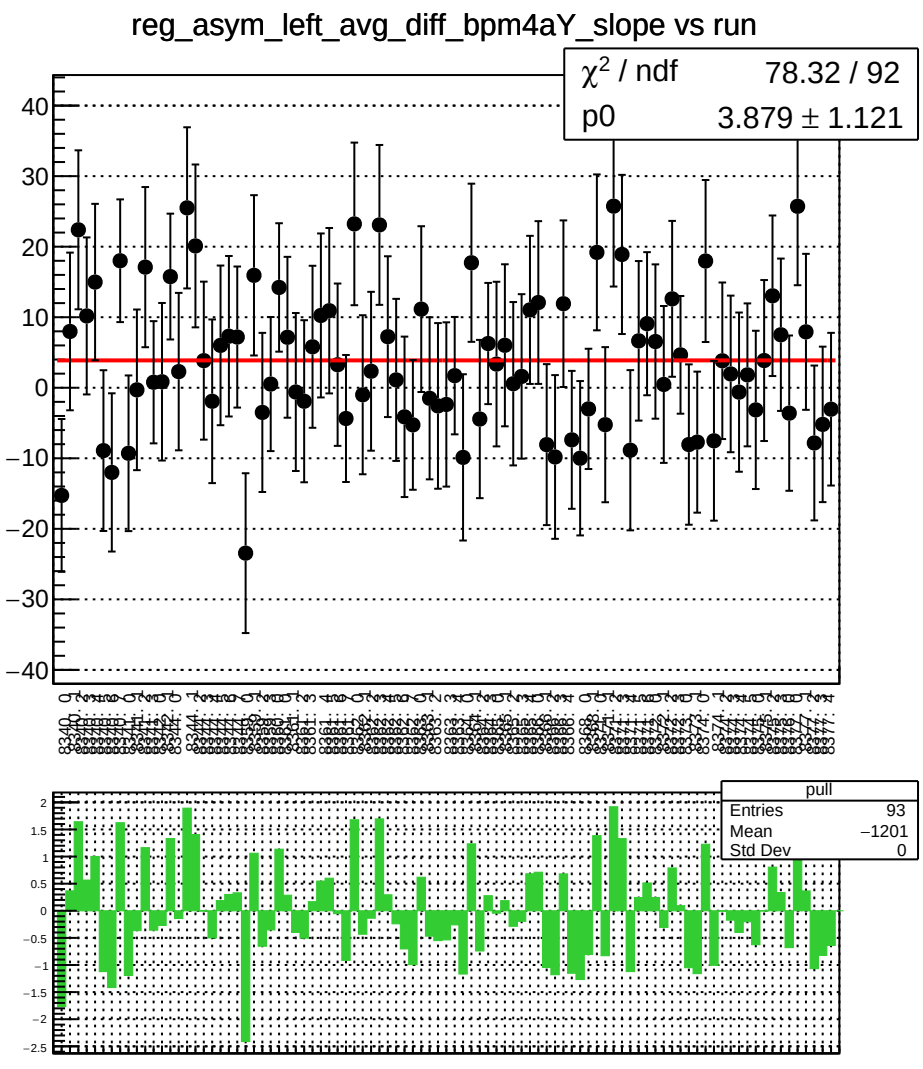

pull1D
Entries 93
Mean −0.009976
Std Dev 1.068

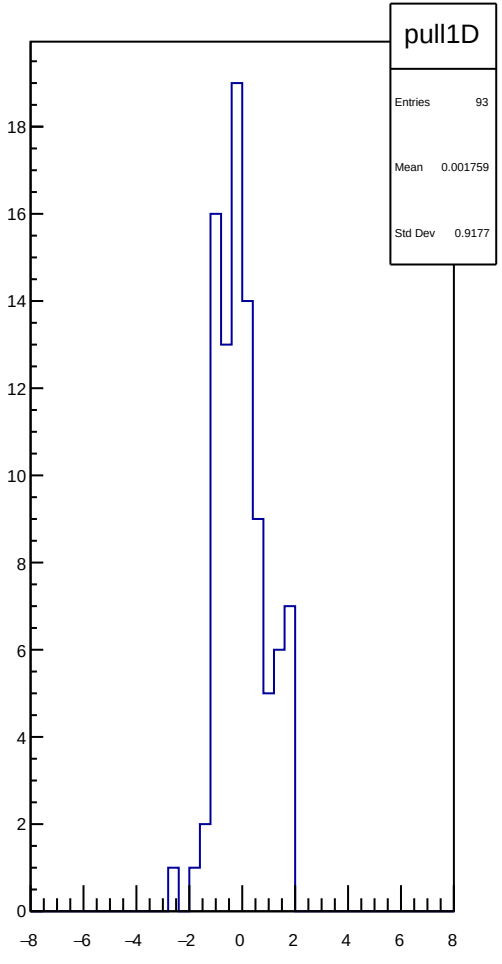

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 148.5 / 92
p0 −0.009088 ± 0.025
pull
Entries 93
Mean 138.9
Std Dev 0

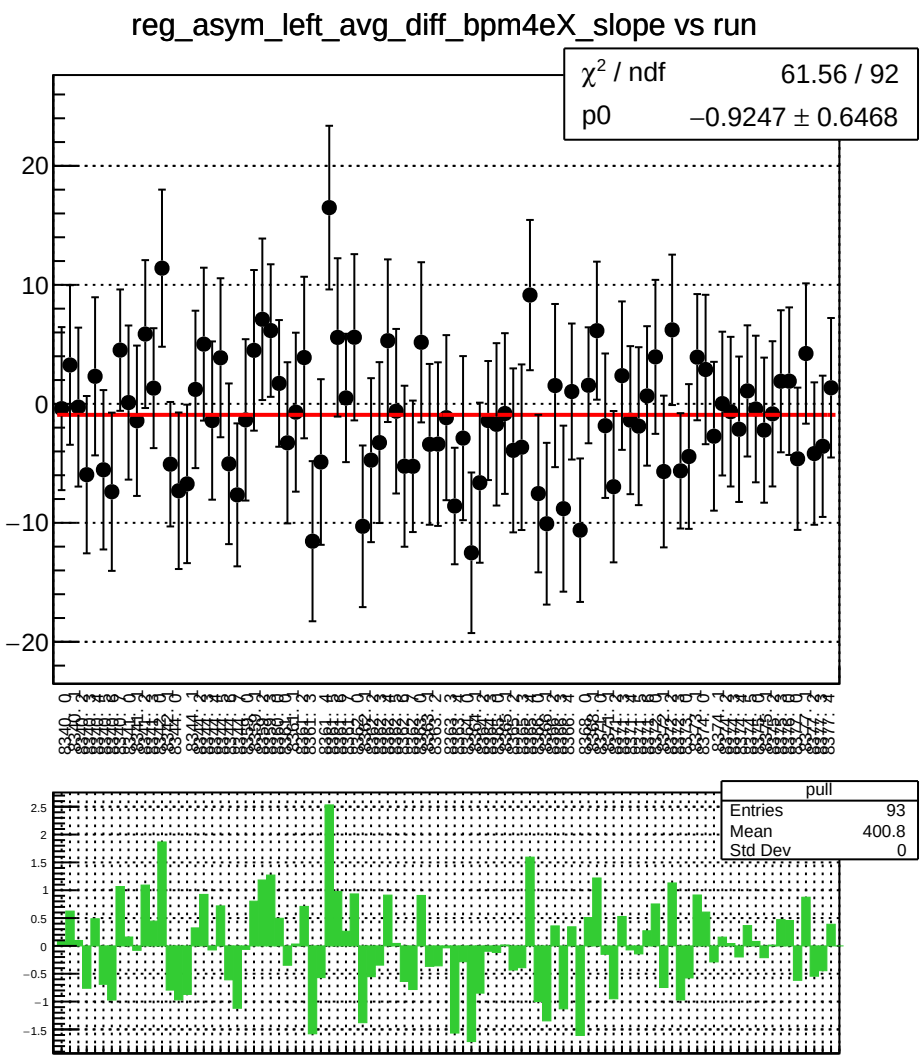

pull1D
Entries 93
Mean 0.02295
Std Dev 1.264

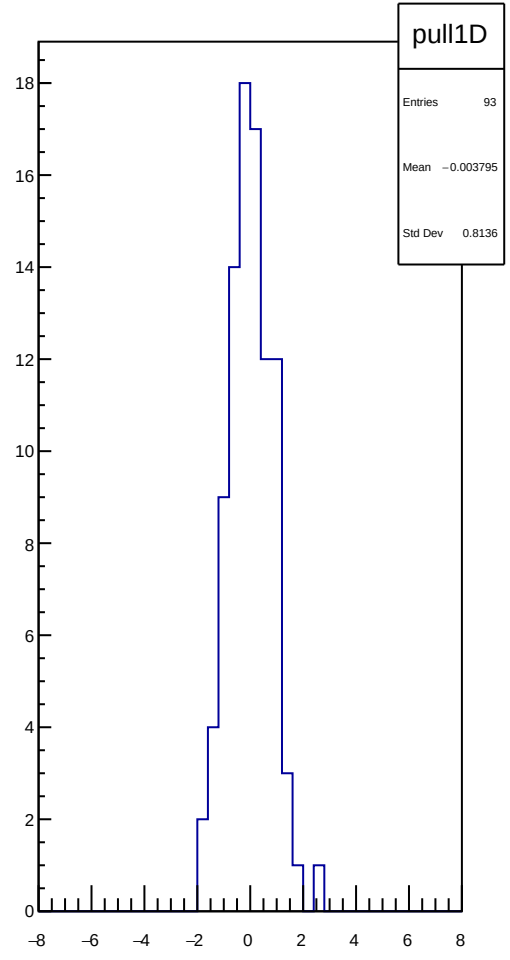

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 61.45 / 92
p0 −31.35 ± 0.5627
pull
Entries 93
Mean 81.82
Std Dev 0

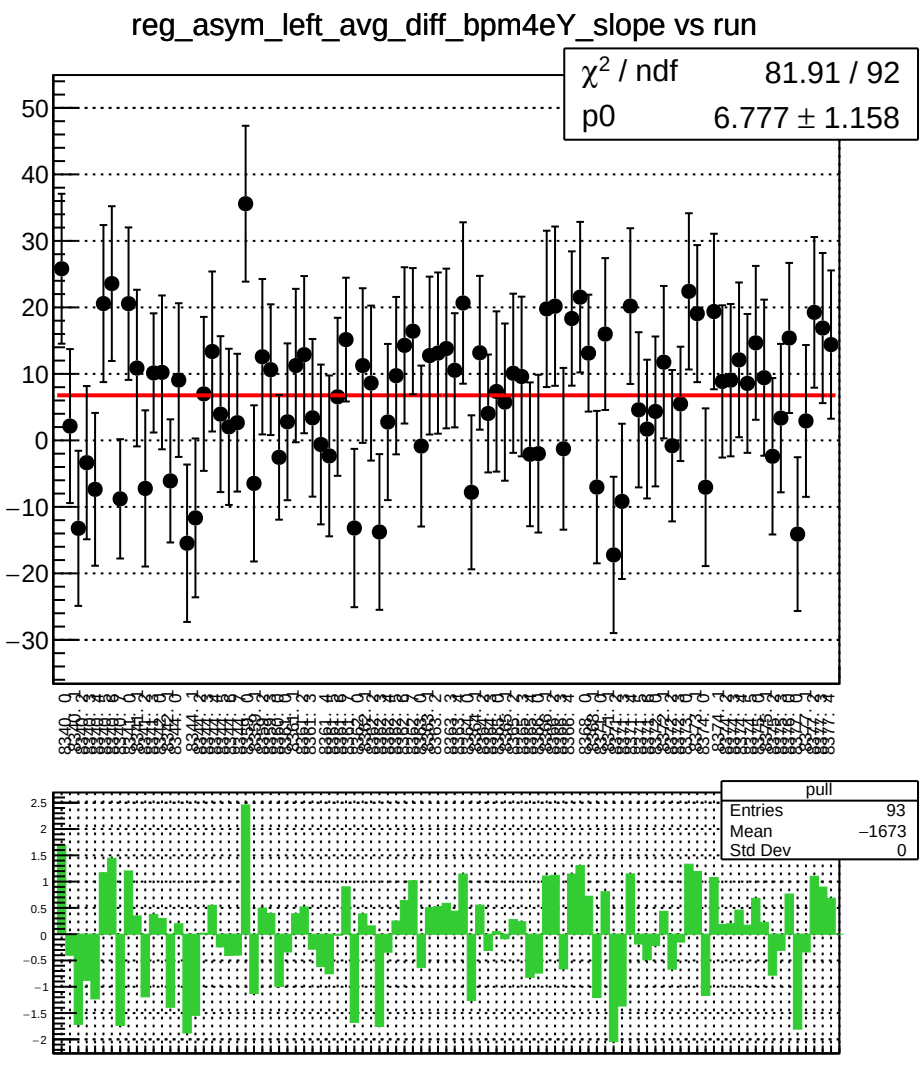

pull1D
Entries 93
Mean 0.005766
Std Dev 0.8128

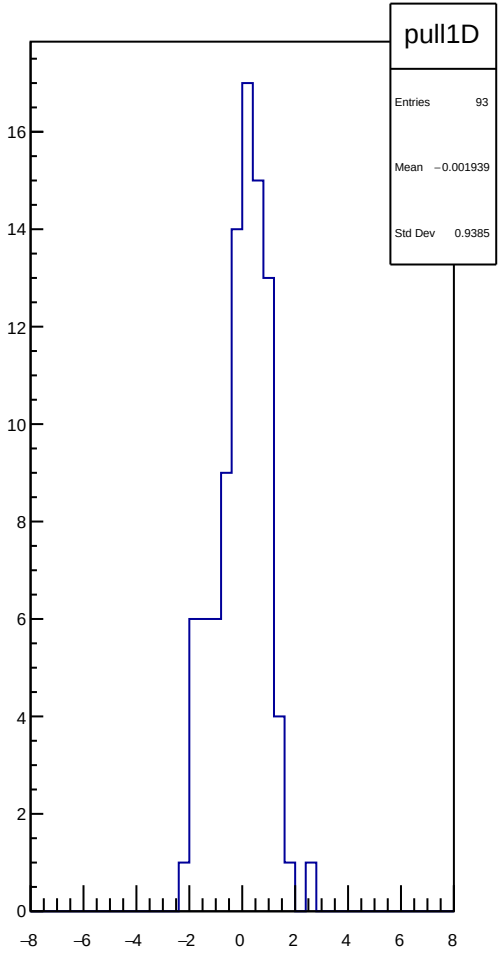

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.32 / 92
p0 3.879 ± 1.121
pull
Entries 93
Mean −1201
Std Dev 0

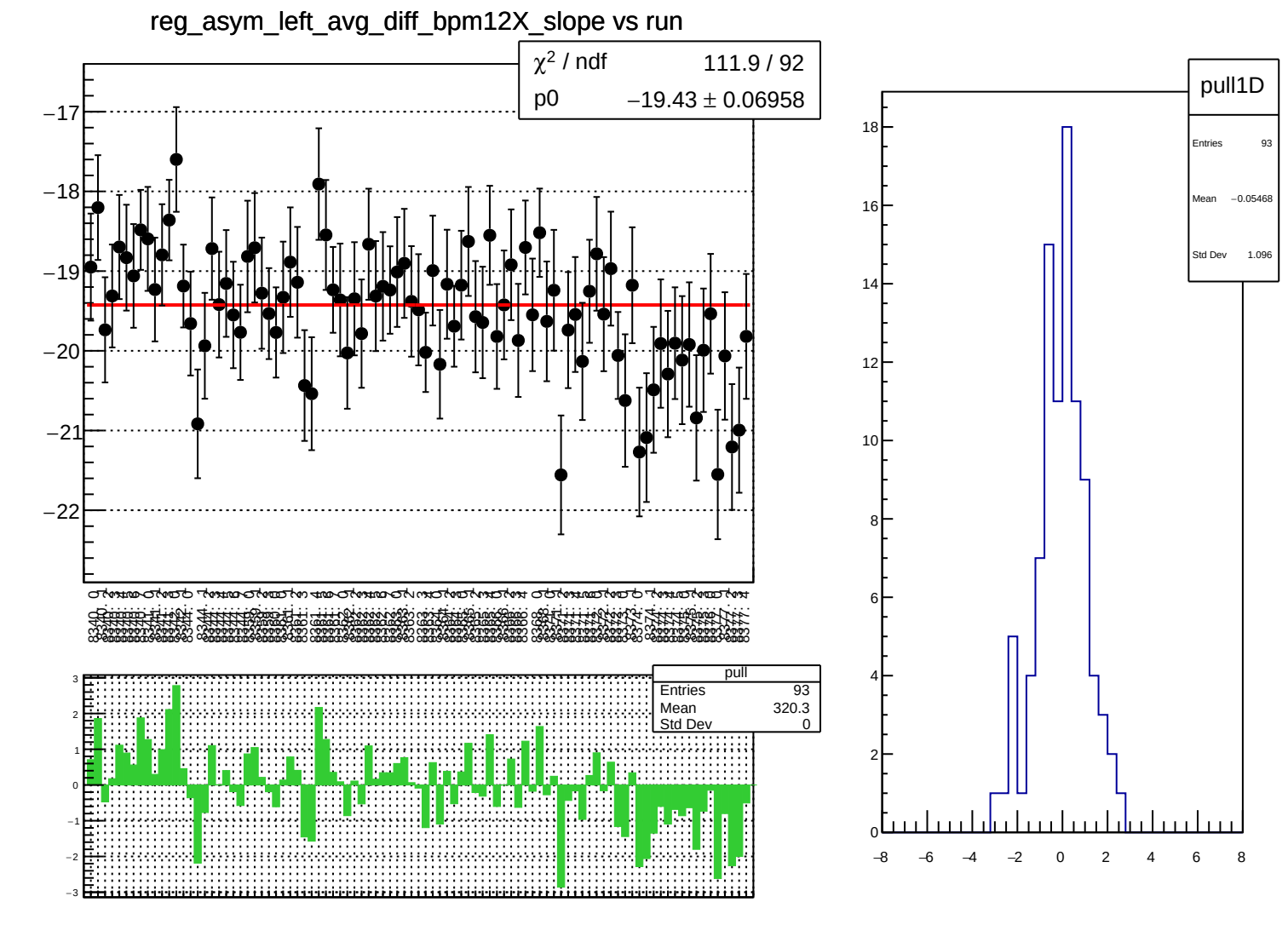

pull1D
Entries 93
Mean 0.001759
Std Dev 0.9177

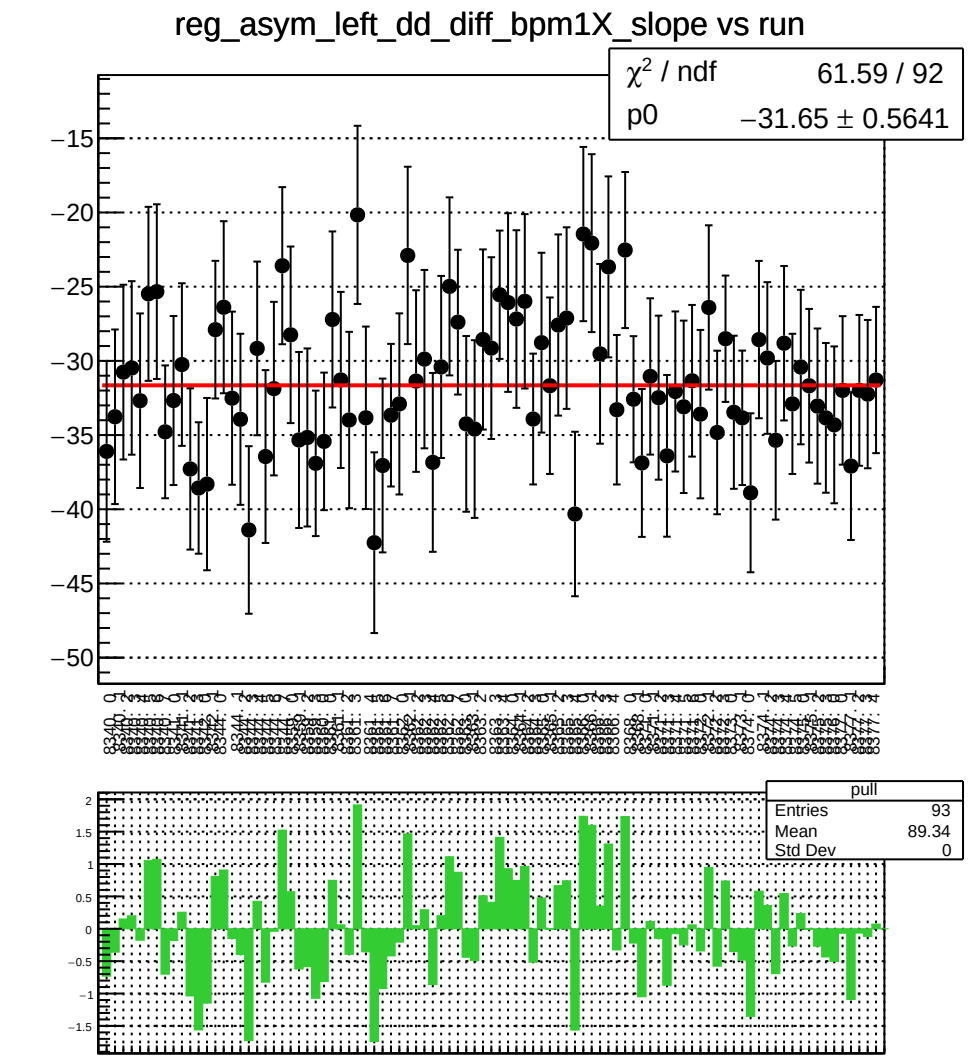

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.56 / 92
p0 −0.9247 ± 0.6468
pull
Entries 93
Mean 400.8
Std Dev 0

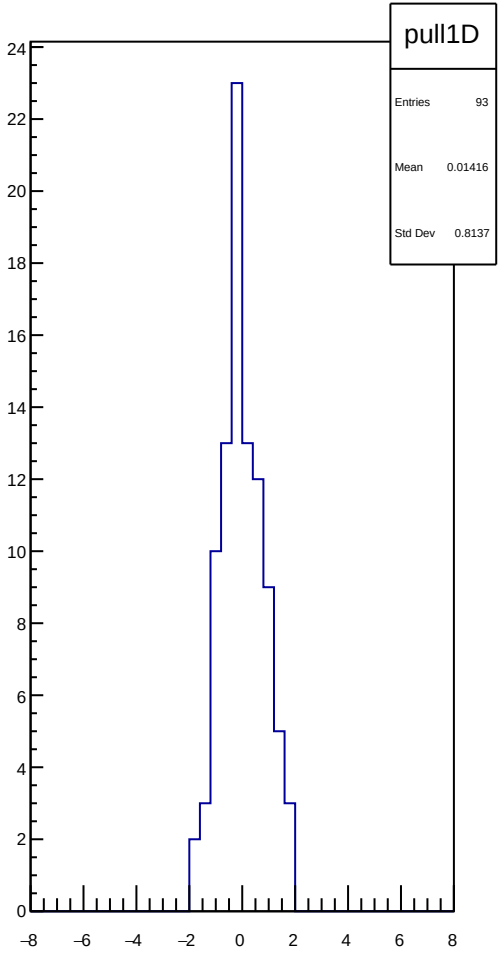

pull1D
Entries 93
Mean −0.003795
Std Dev 0.8136

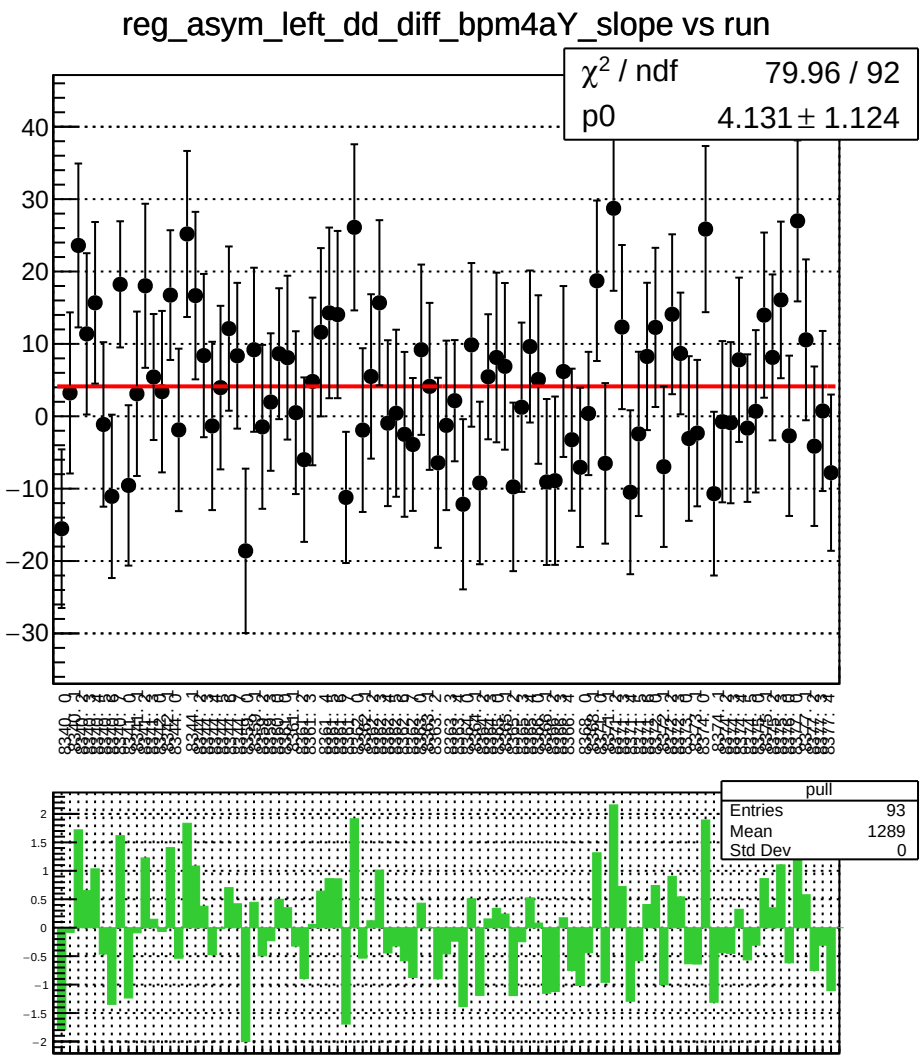

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.91 / 92
p0 6.777 ± 1.158
pull
Entries 93
Mean −1673
Std Dev 0

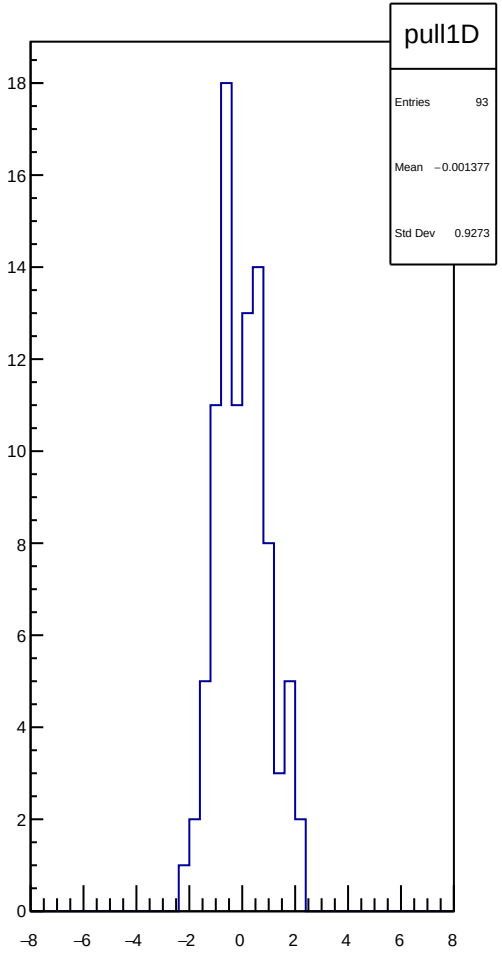

pull1D
Entries 93
Mean −0.001939
Std Dev 0.9385

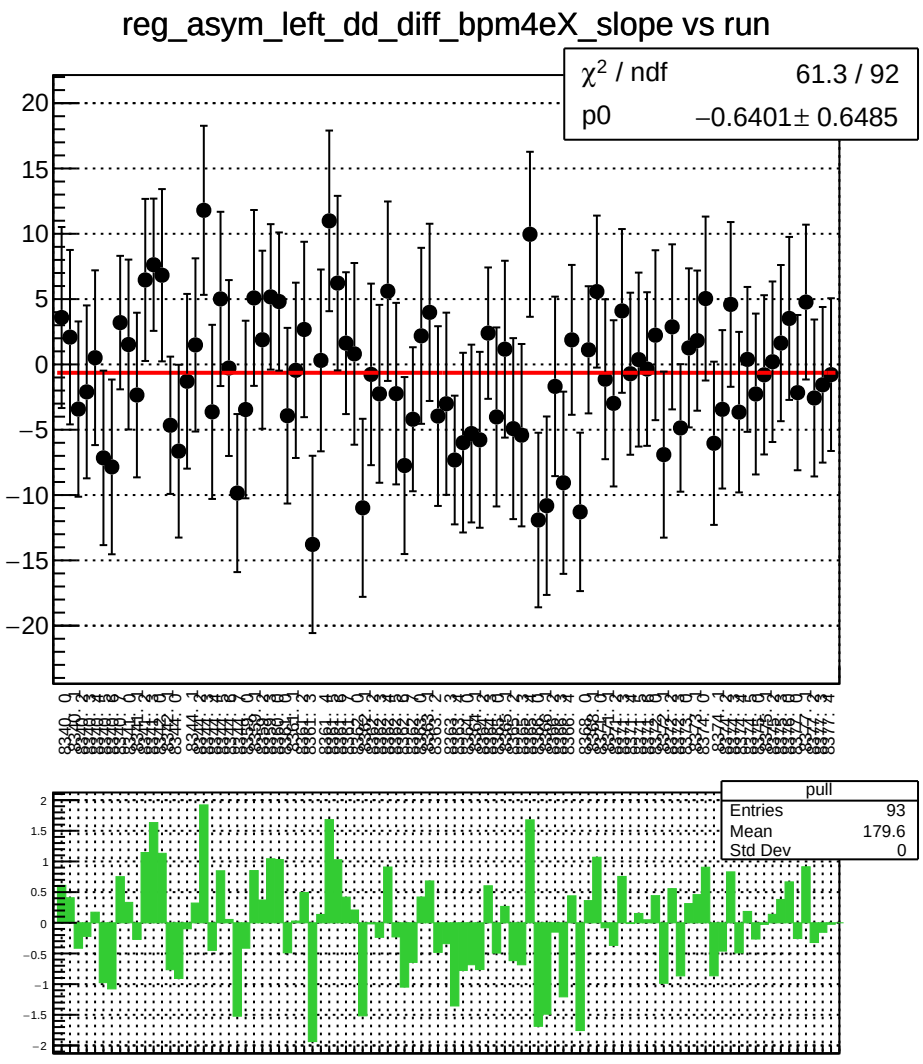

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 111.9 / 92
p0 −19.43 ± 0.06958
pull
Entries 93
Mean 320.3
Std Dev 0
pull1D
Entries 93
Mean −0.05468
Std Dev 1.096

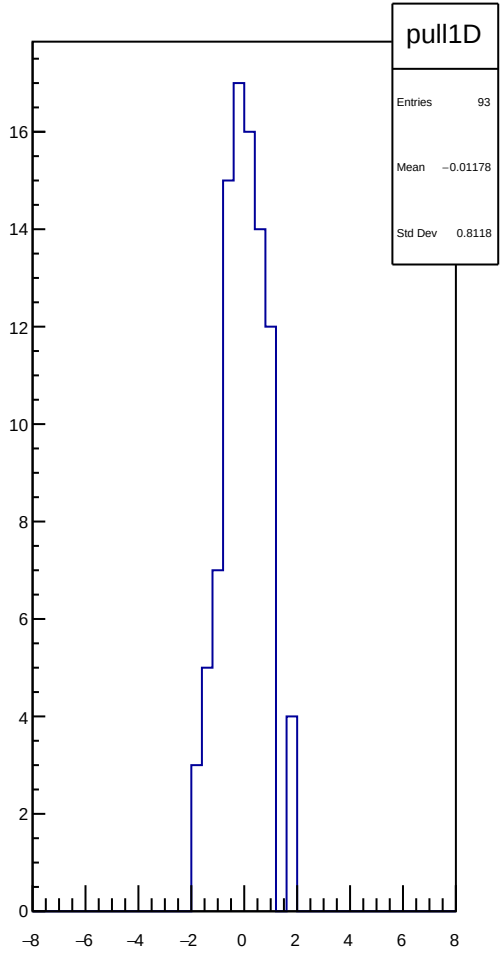

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 61.59 / 92
p0 −31.65 ± 0.5641
pull
Entries 93
Mean 89.34
Std Dev 0

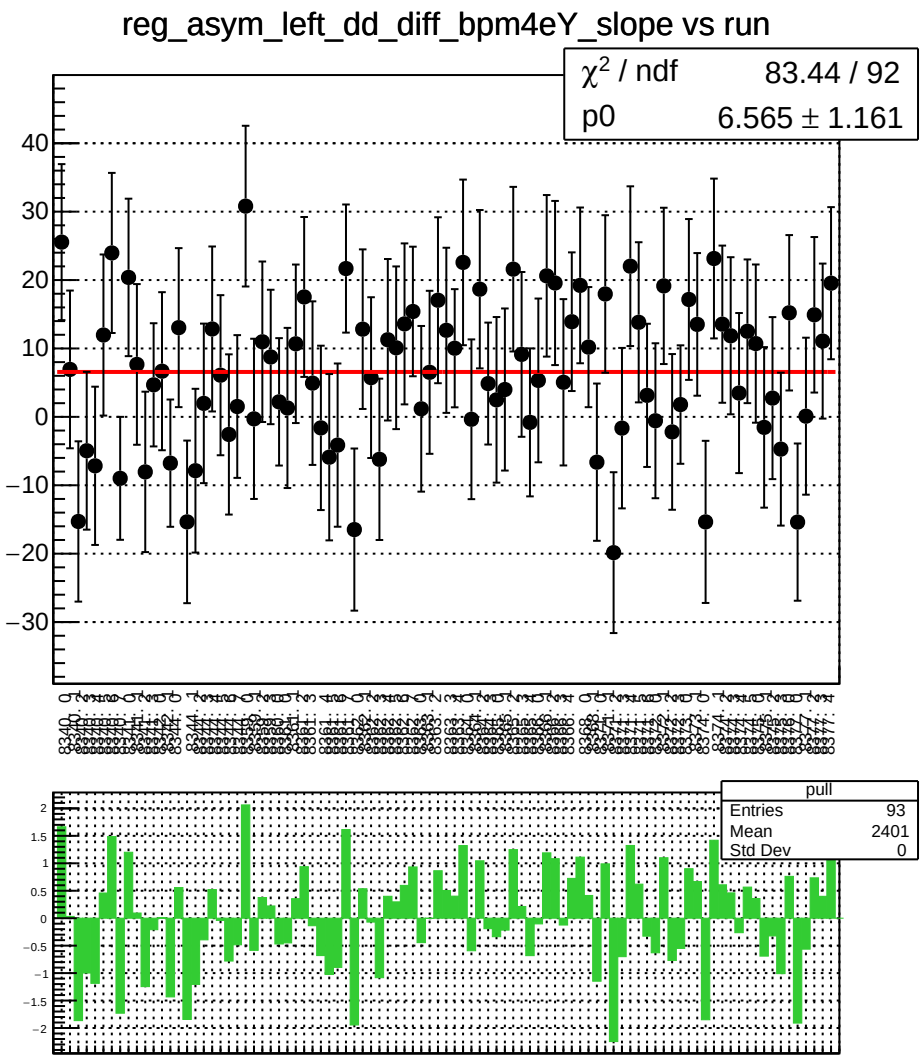

pull1D
Entries 93
Mean 0.01416
Std Dev 0.8137

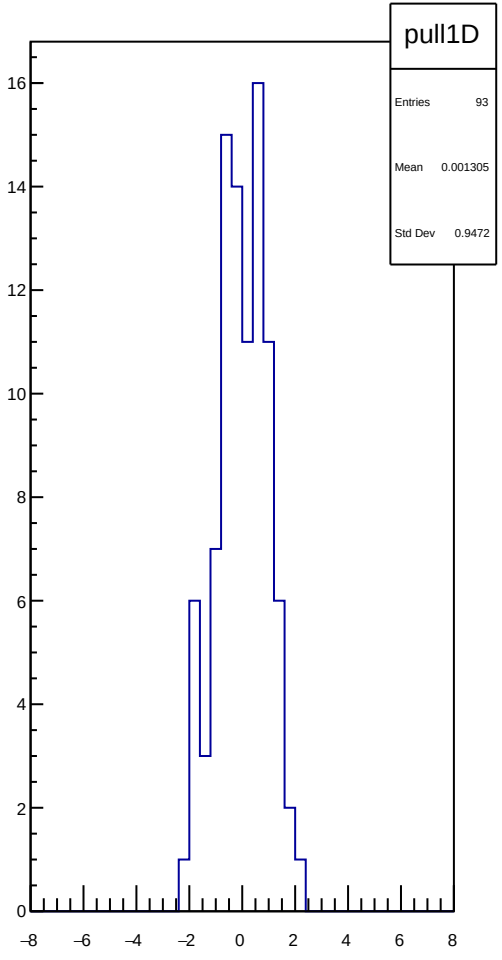

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.96 / 92
p0 4.131 ± 1.124
pull
Entries 93
Mean 1289
Std Dev 0

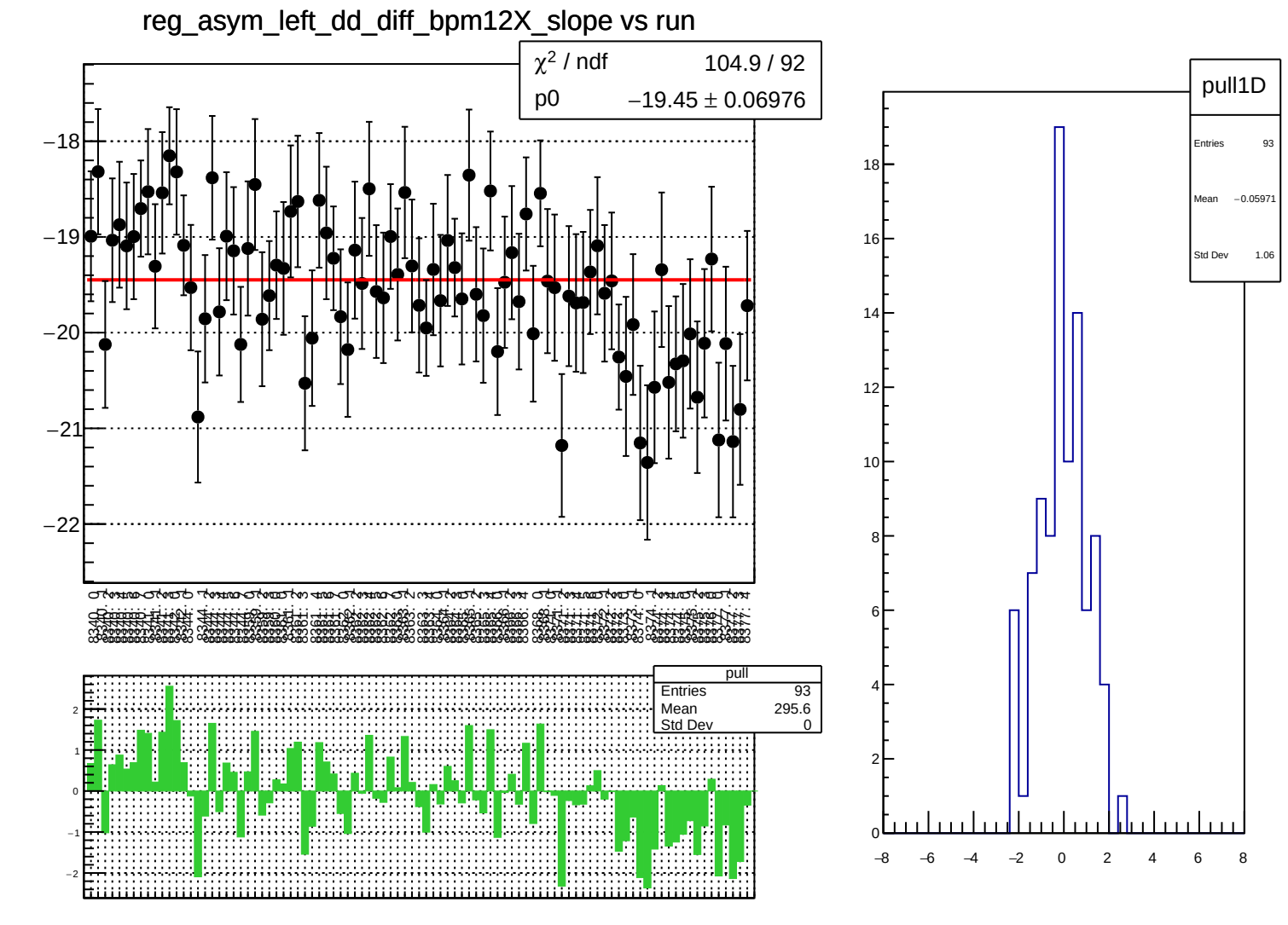

pull1D
Entries 93
Mean −0.001377
Std Dev 0.9273

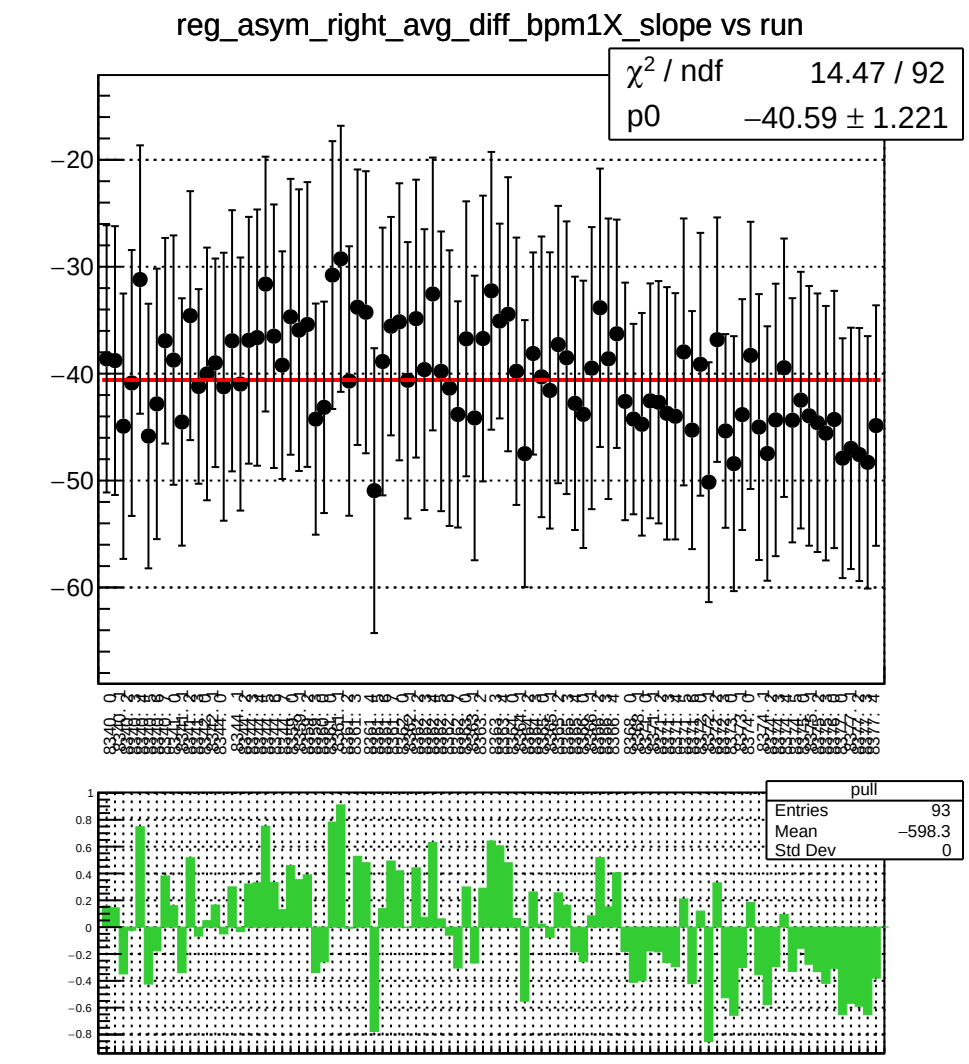

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.3 / 92
p0 −0.6401± 0.6485
pull
Entries 93
Mean 179.6
Std Dev 0

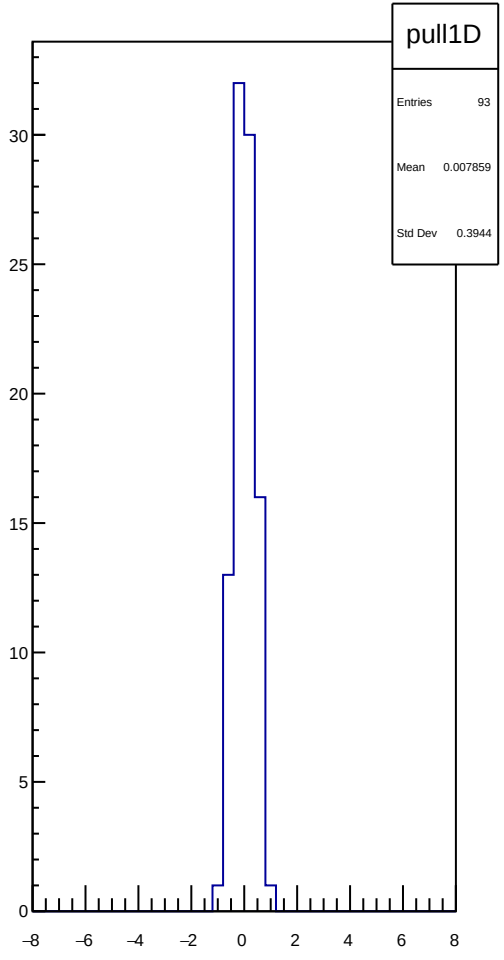

pull1D
Entries 93
Mean −0.01178
Std Dev 0.8118

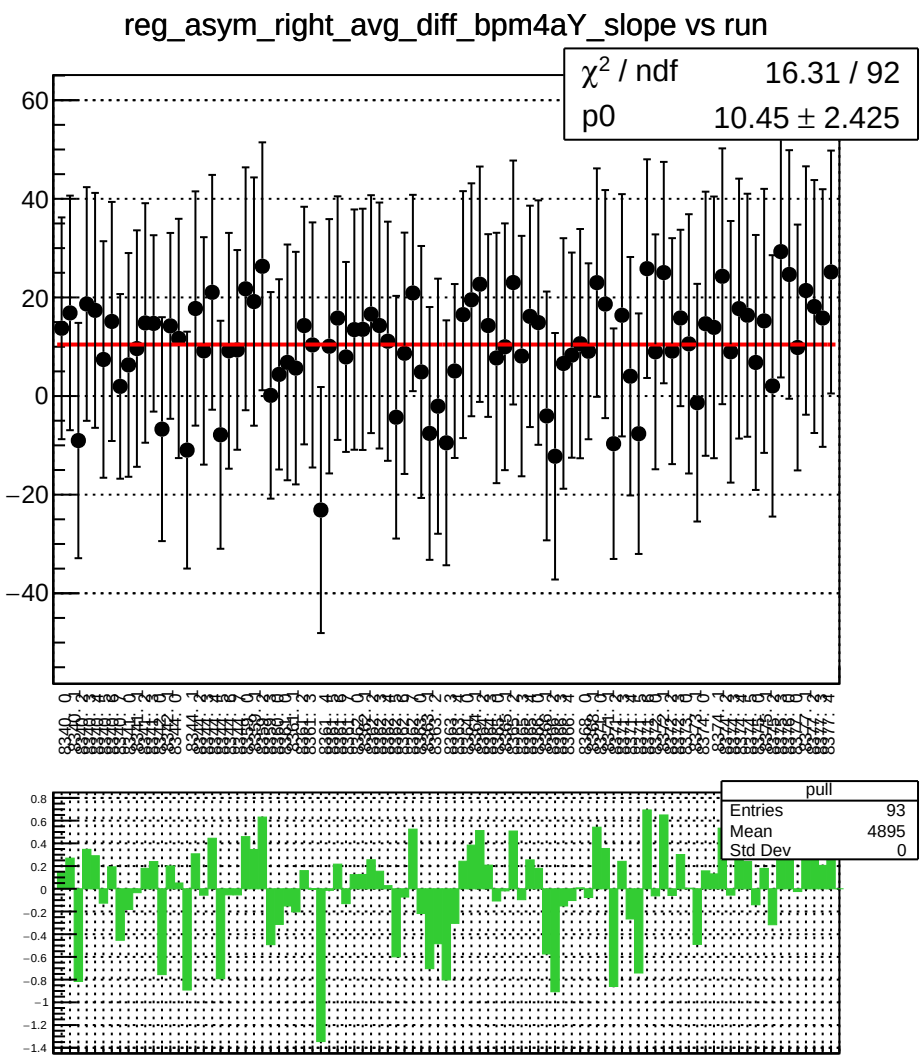

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.44 / 92
p0 6.565 ± 1.161
pull
Entries 93
Mean 2401
Std Dev 0

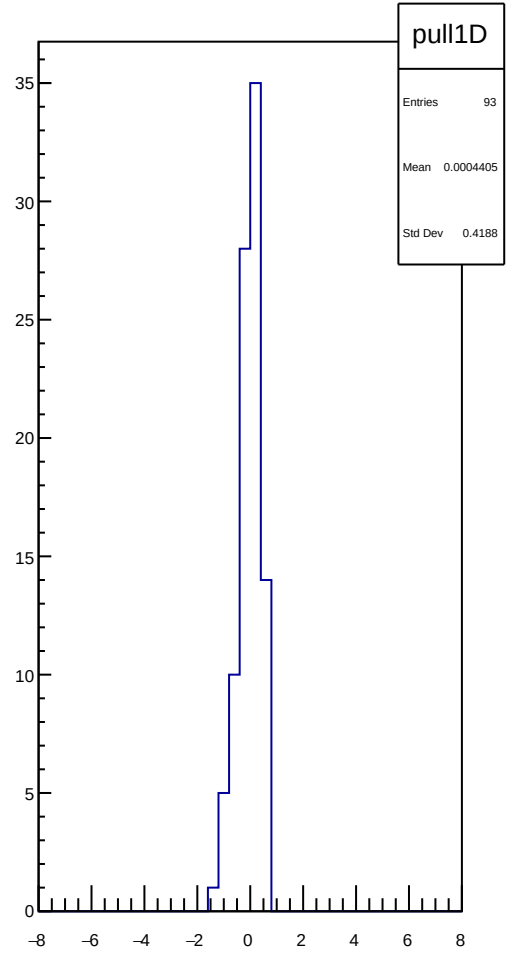

pull1D
Entries 93
Mean 0.001305
Std Dev 0.9472

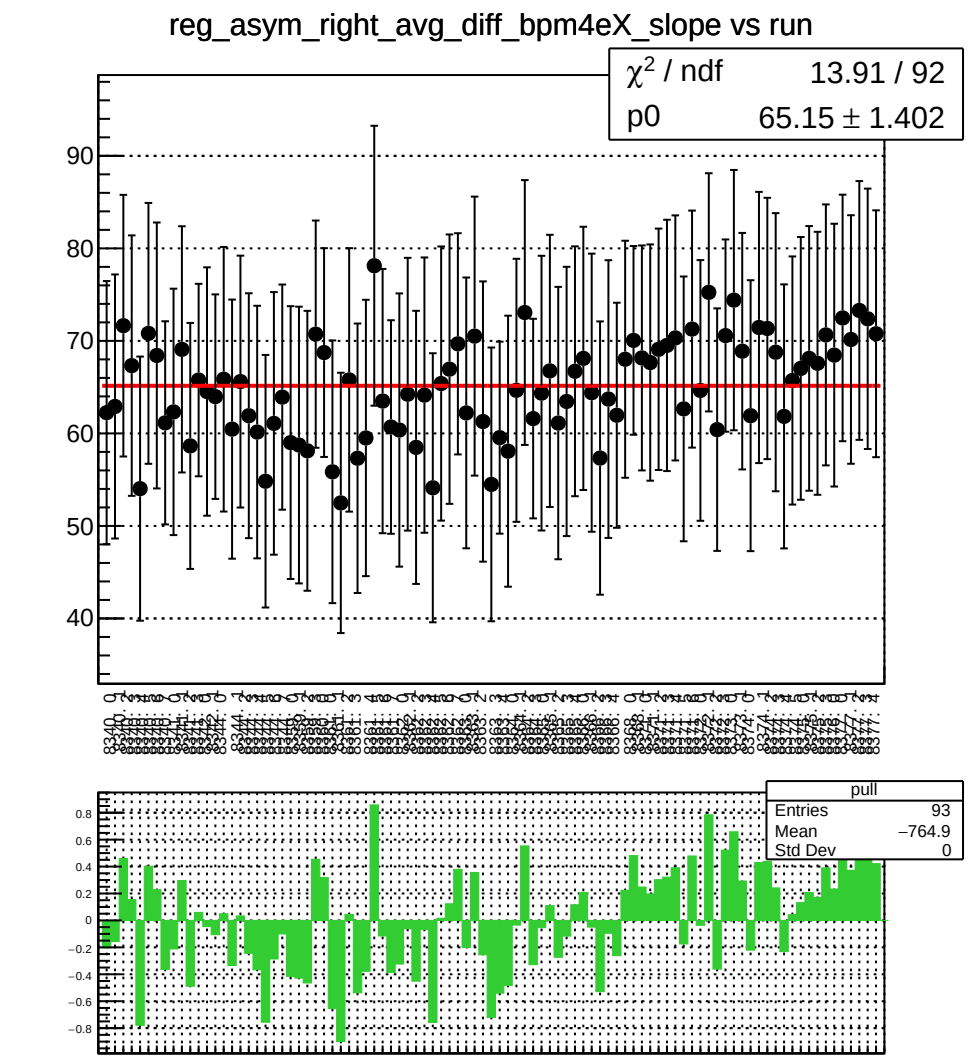

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 104.9 / 92
p0 −19.45 ± 0.06976
−18
−19
−20
−21
−22
pull
Entries 93
Mean 295.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.05971
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

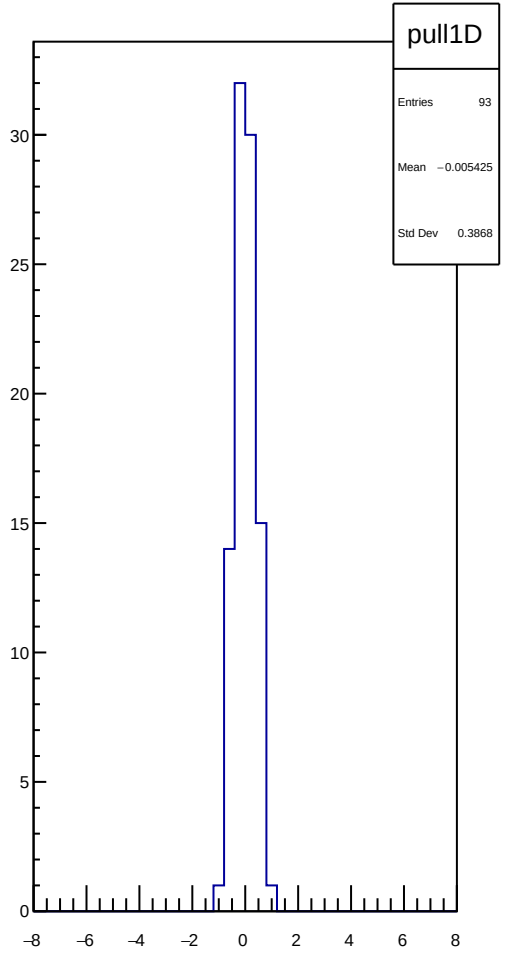

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 14.47 / 92
p0 −40.59 ± 1.221
−20
−30
−40
−50
−60
pull
Entries 93
Mean −598.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

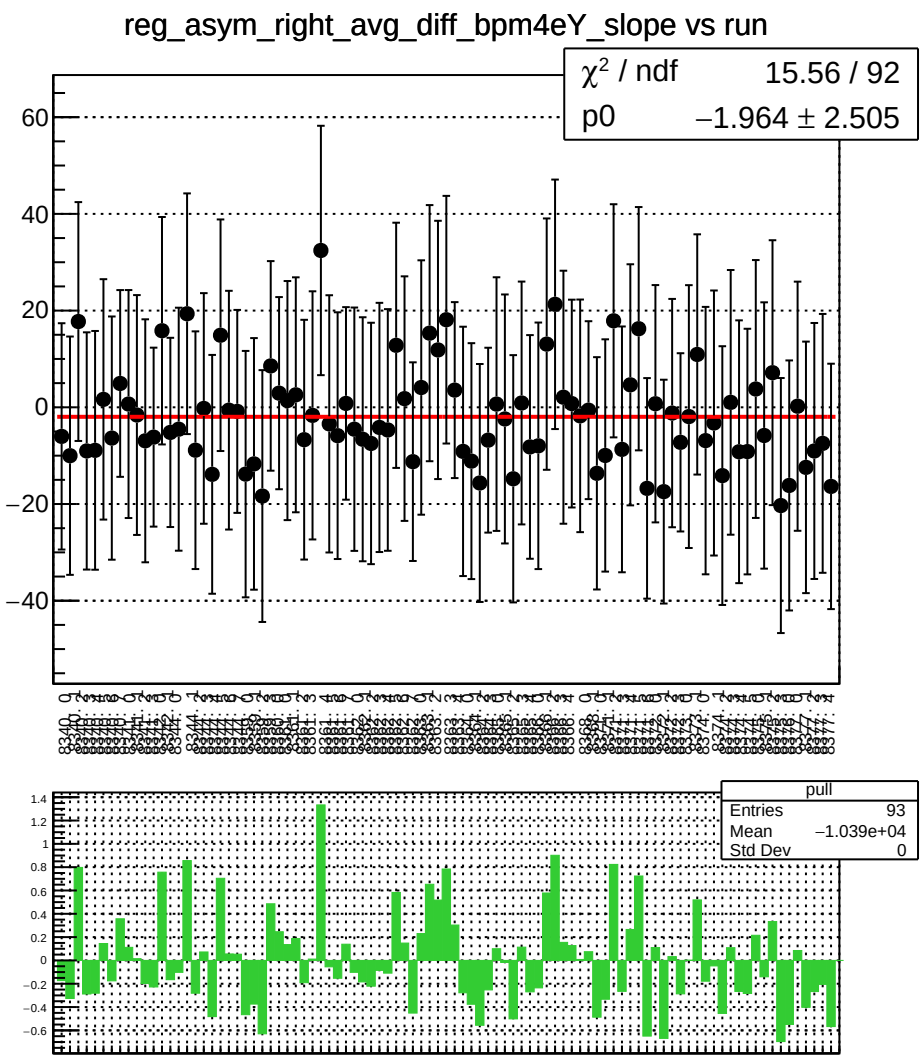

pull1D
Entries 93
Mean 0.007859
Std Dev 0.3944
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

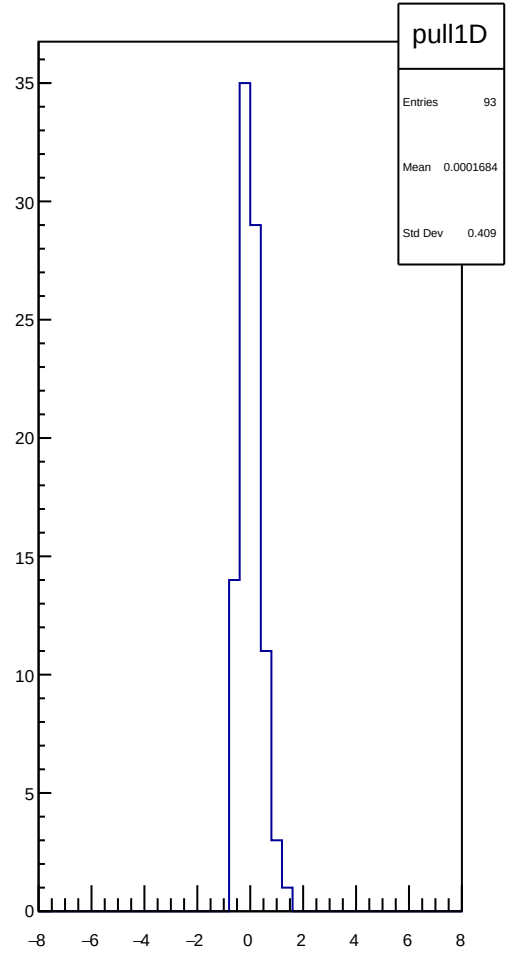

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.31 / 92
p0 10.45 ± 2.425
pull
Entries 93
Mean 4895
Std Dev 0

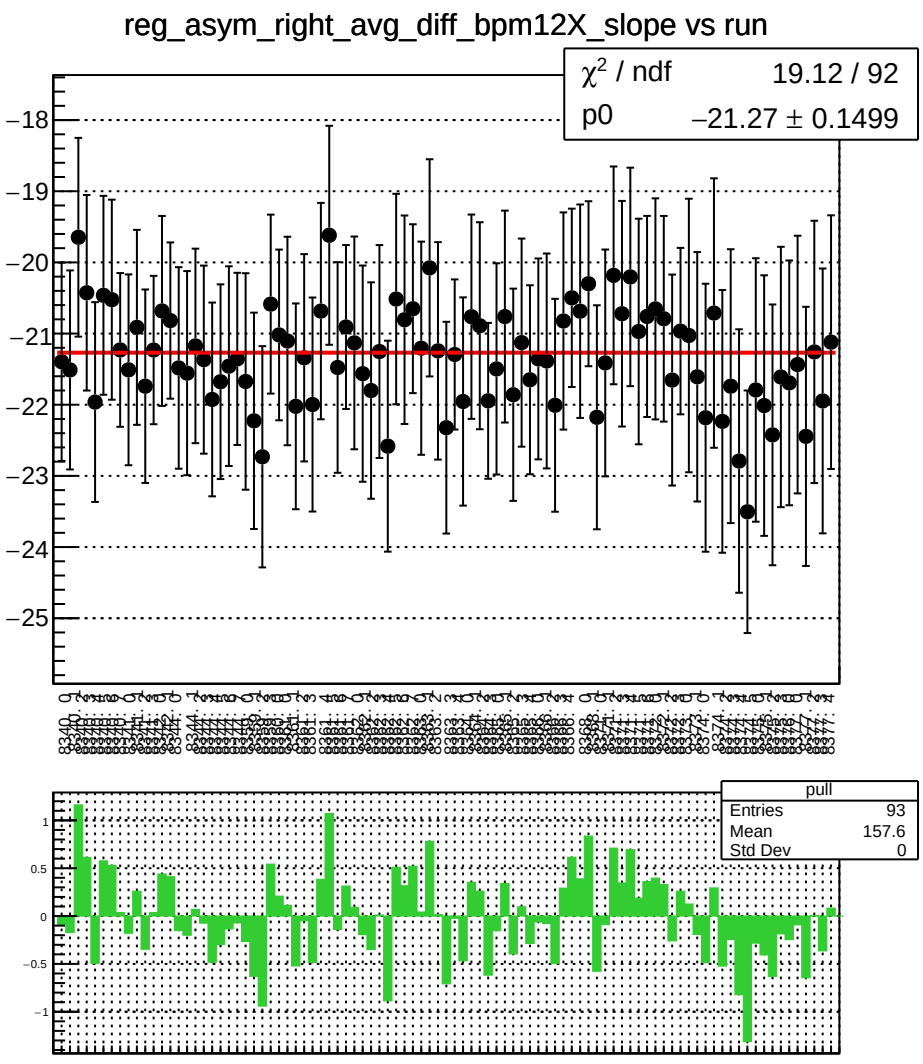

pull1D
Entries 93
Mean 0.0004405
Std Dev 0.4188

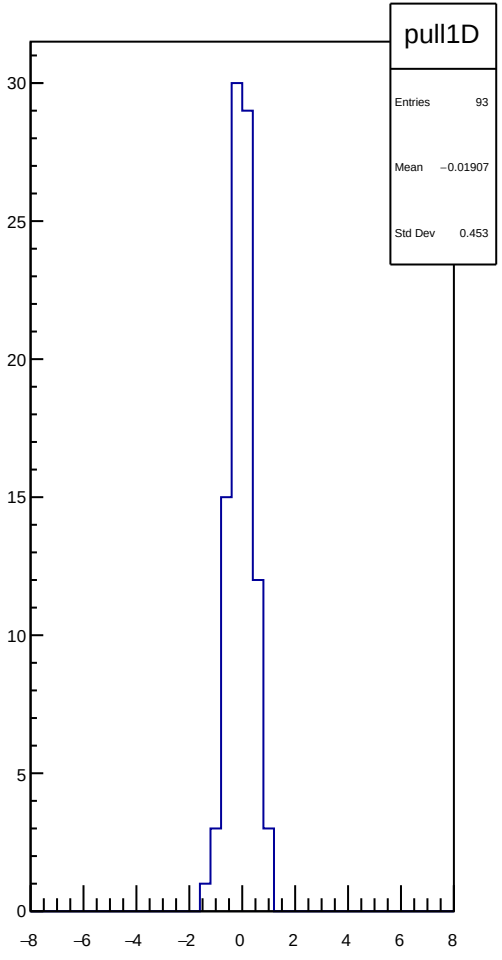

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.91 / 92
p0 65.15 ± 1.402
pull
Entries 93
Mean −764.9
Std Dev 0

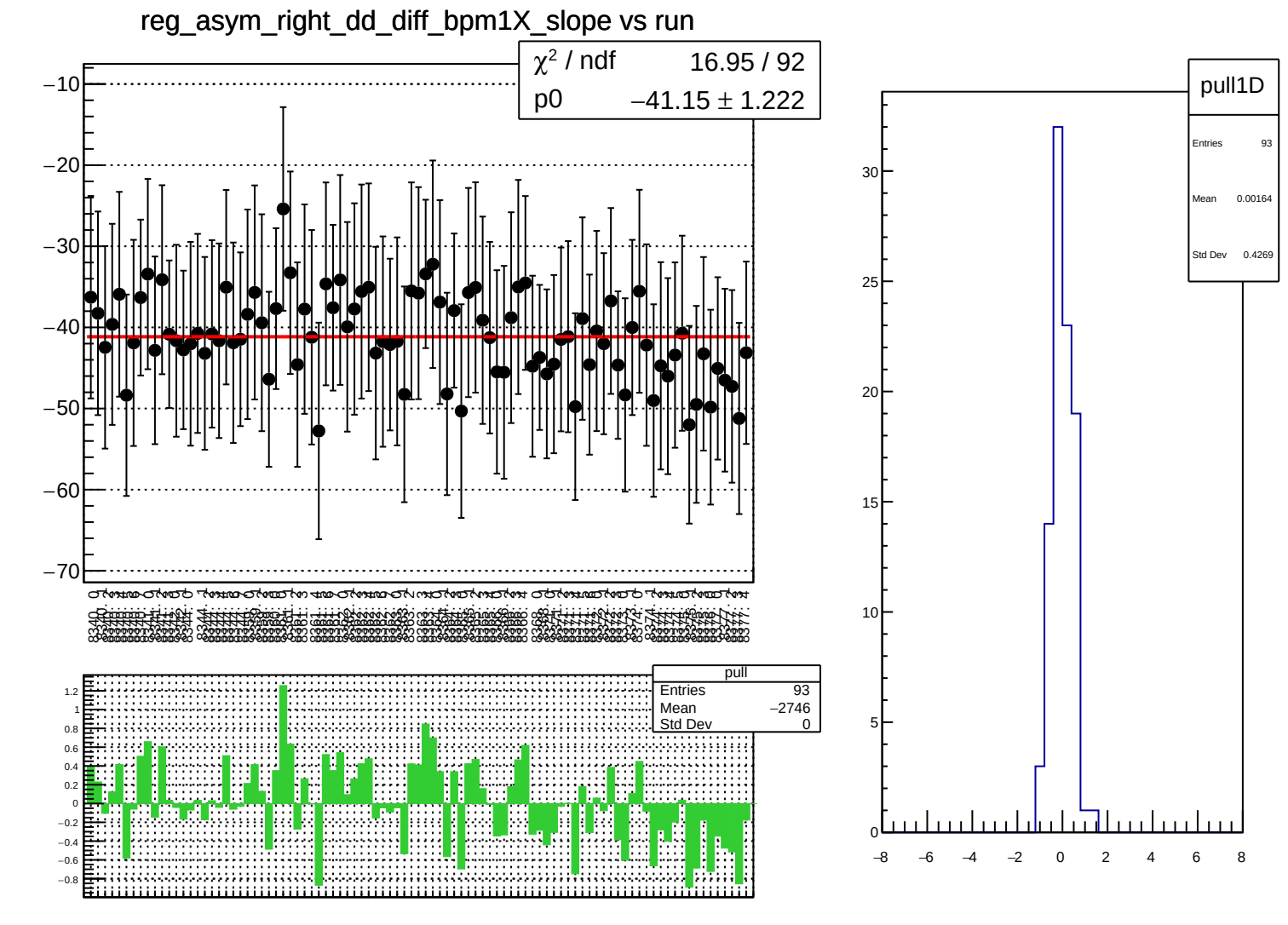

pull1D
Entries 93
Mean −0.005425
Std Dev 0.3868

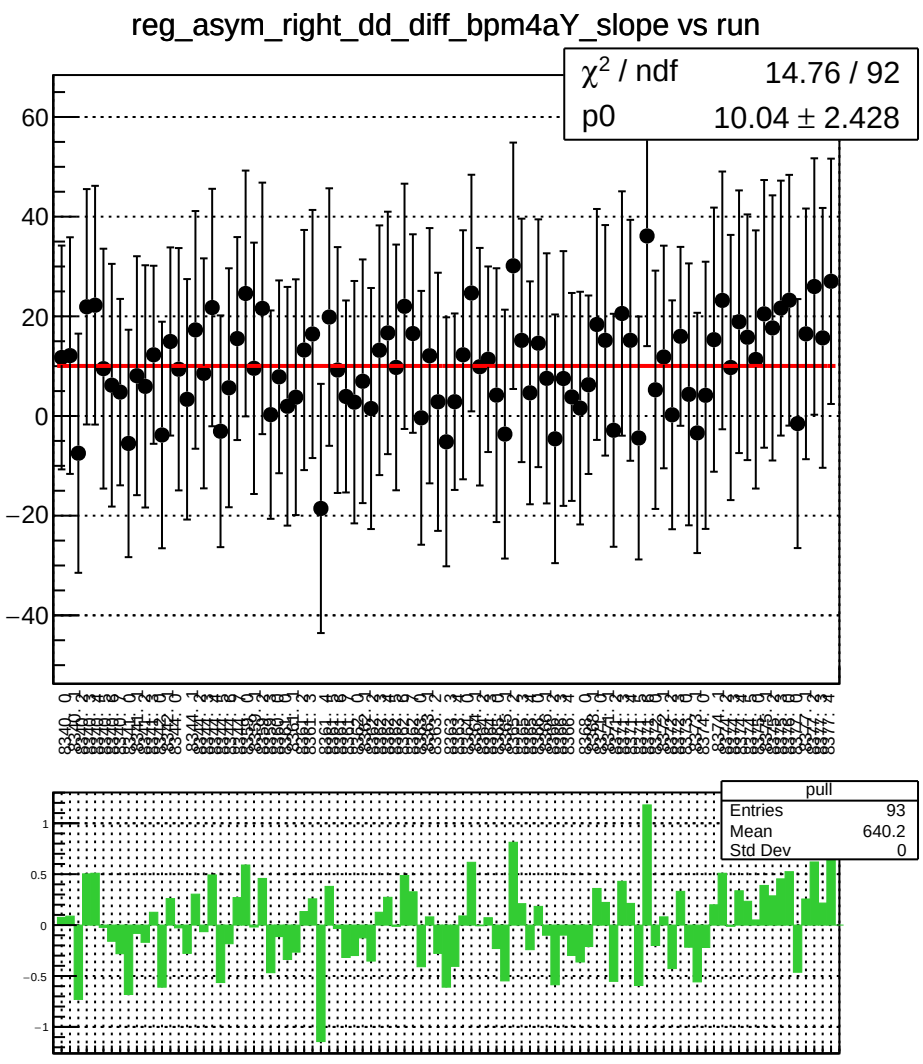

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.56 / 92
p0 −1.964 ± 2.505
pull
Entries 93
Mean −1.039e+04
Std Dev 0

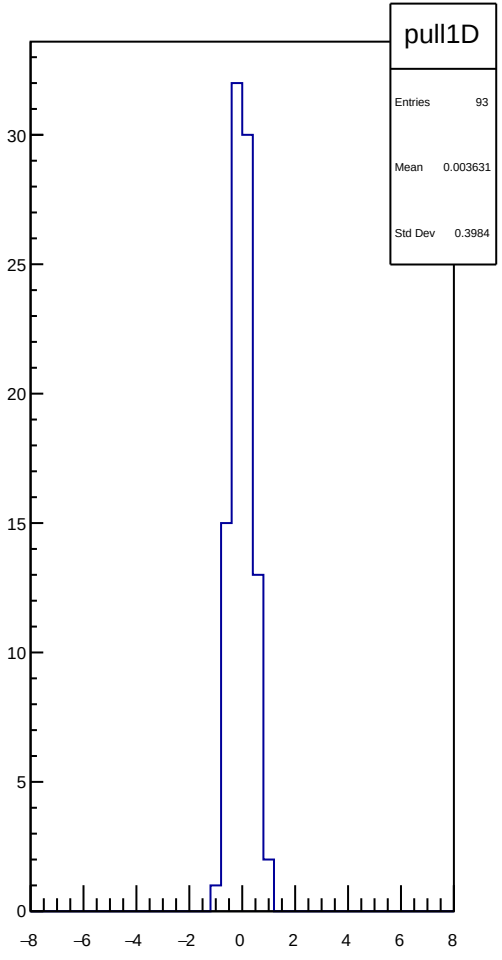

pull1D
Entries 93
Mean 0.0001684
Std Dev 0.409

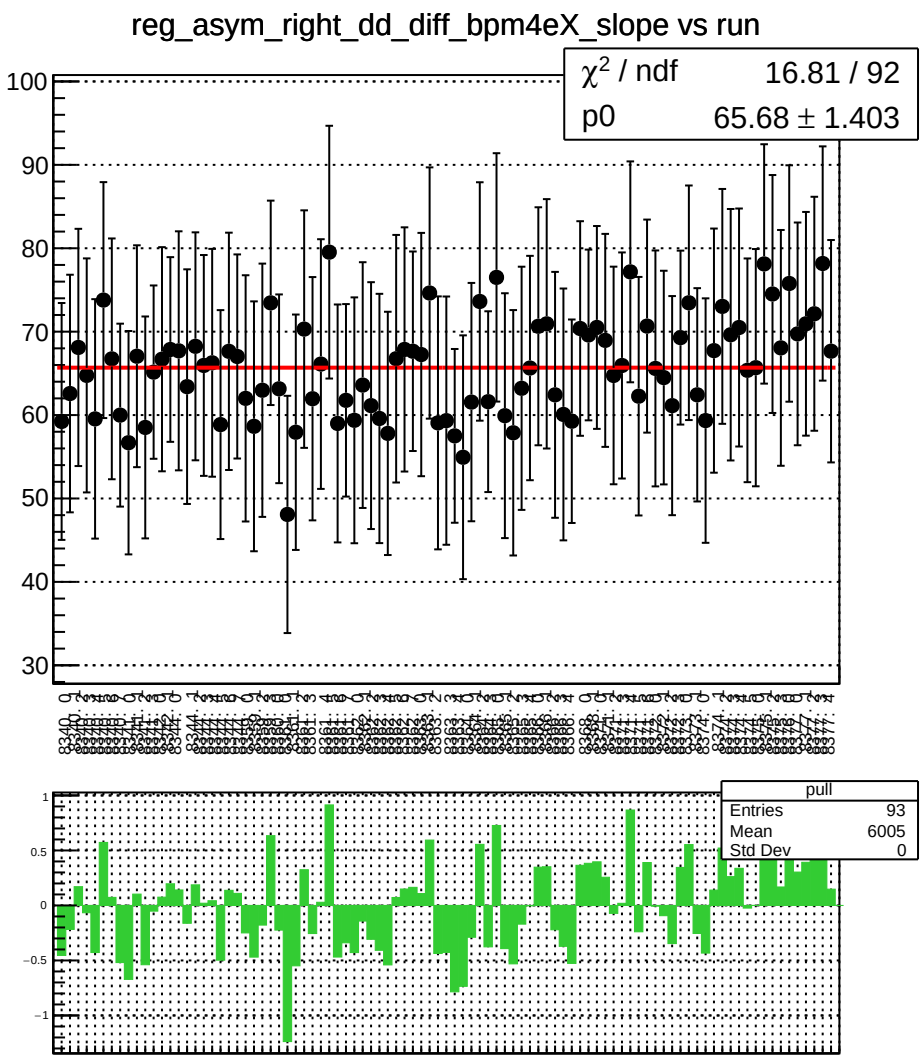

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 19.12 / 92
p0 −21.27 ± 0.1499
pull
Entries 93
Mean 157.6
Std Dev 0

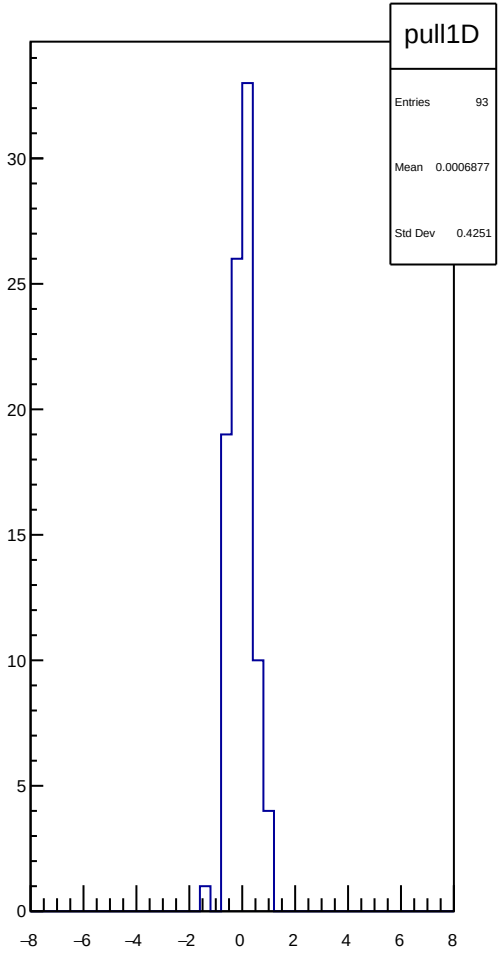

pull1D
Entries 93
Mean −0.01907
Std Dev 0.453

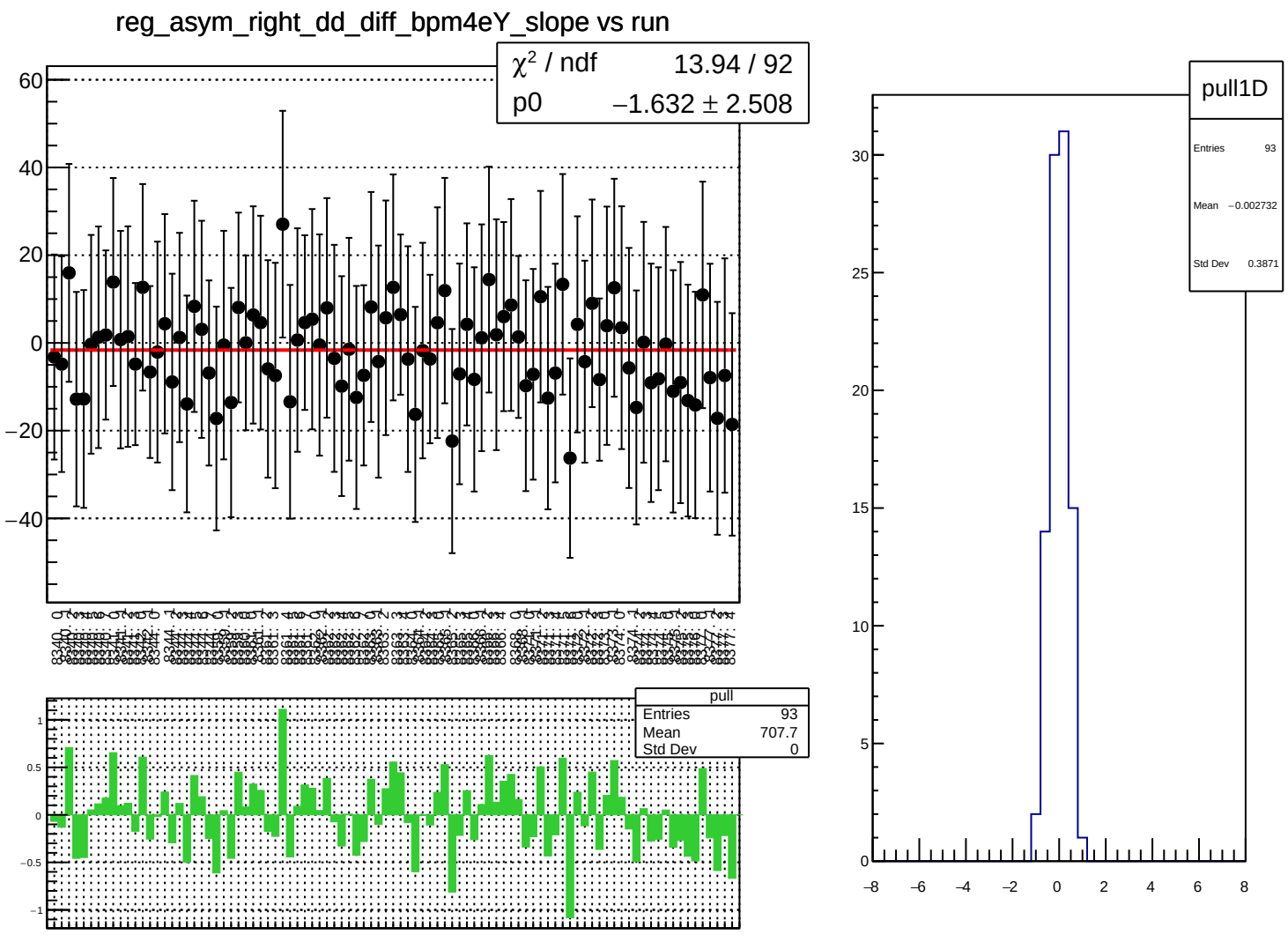

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 16.95 / 92
p0 −41.15 ± 1.222
pull
Entries 93
Mean −2746
Std Dev 0
pull1D
Entries 93
Mean 0.00164
Std Dev 0.4269

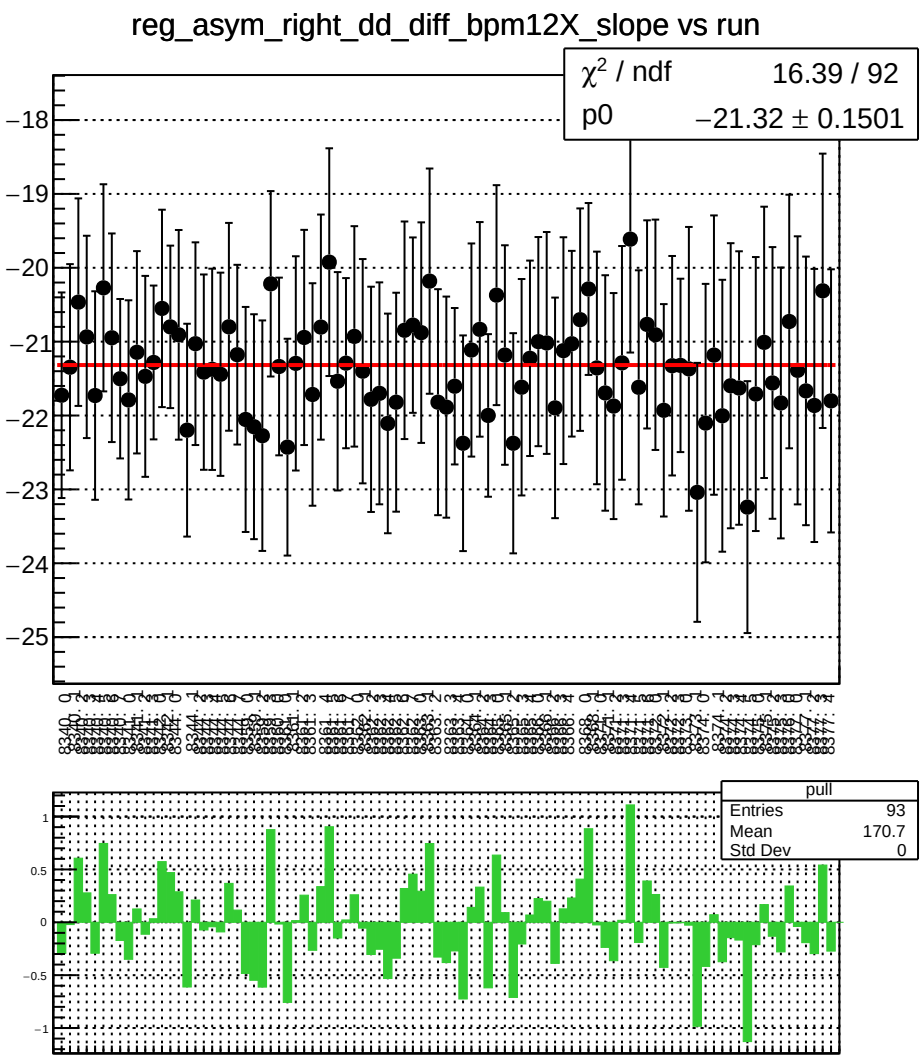

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.76 / 92
p0 10.04 ± 2.428
pull
Entries 93
Mean 640.2
Std Dev 0

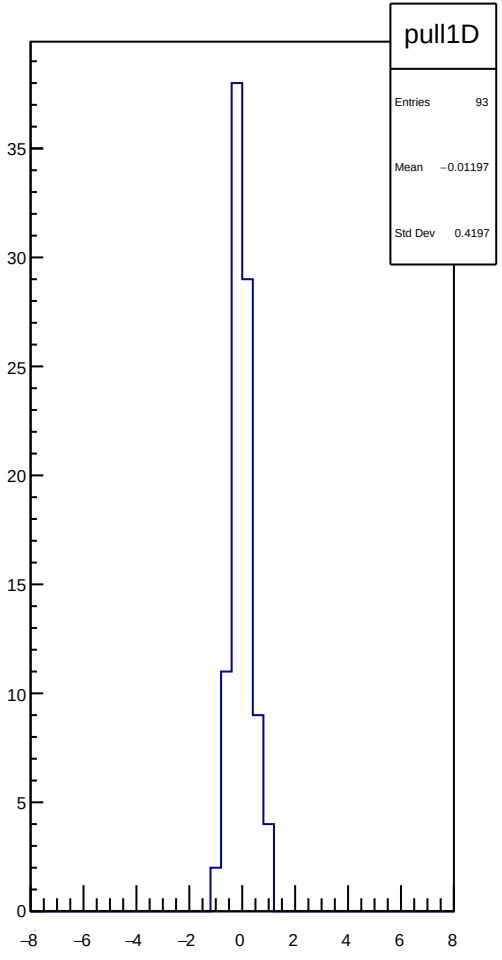

pull1D
Entries 93
Mean 0.003631
Std Dev 0.3984

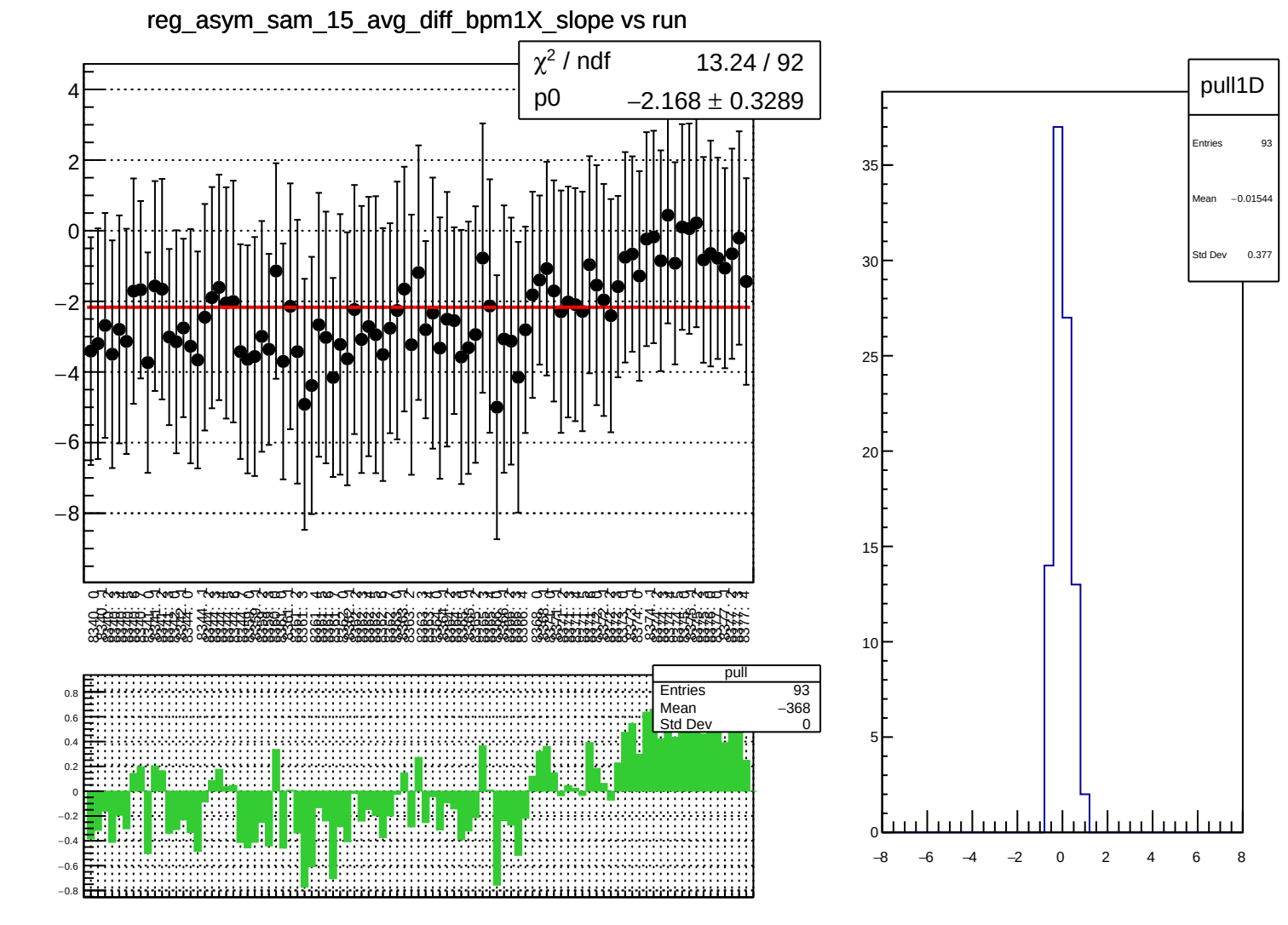

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.81 / 92
p0 65.68 ± 1.403
pull
Entries 93
Mean 6005
Std Dev 0

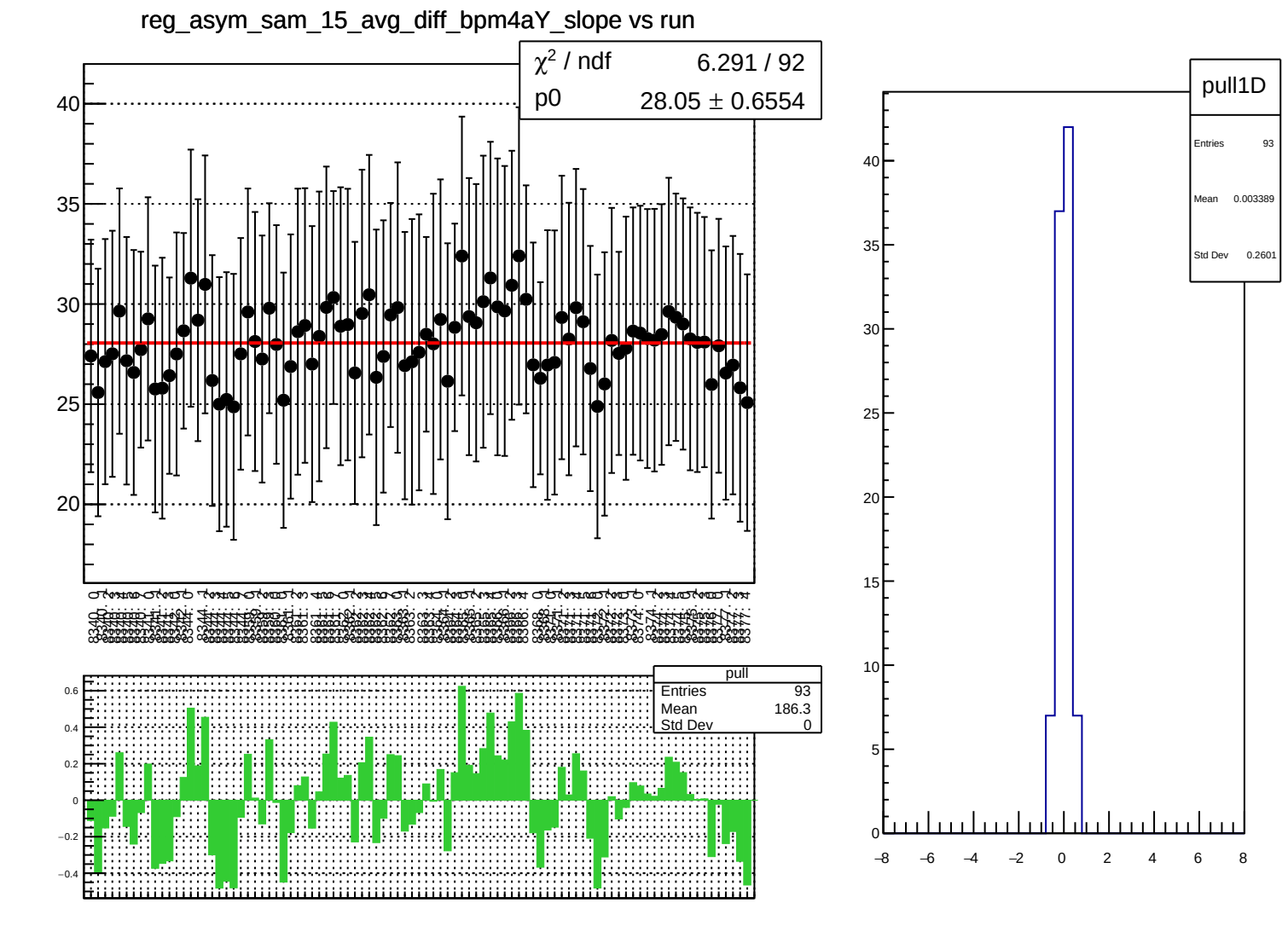

pull1D
Entries 93
Mean 0.0006877
Std Dev 0.4251

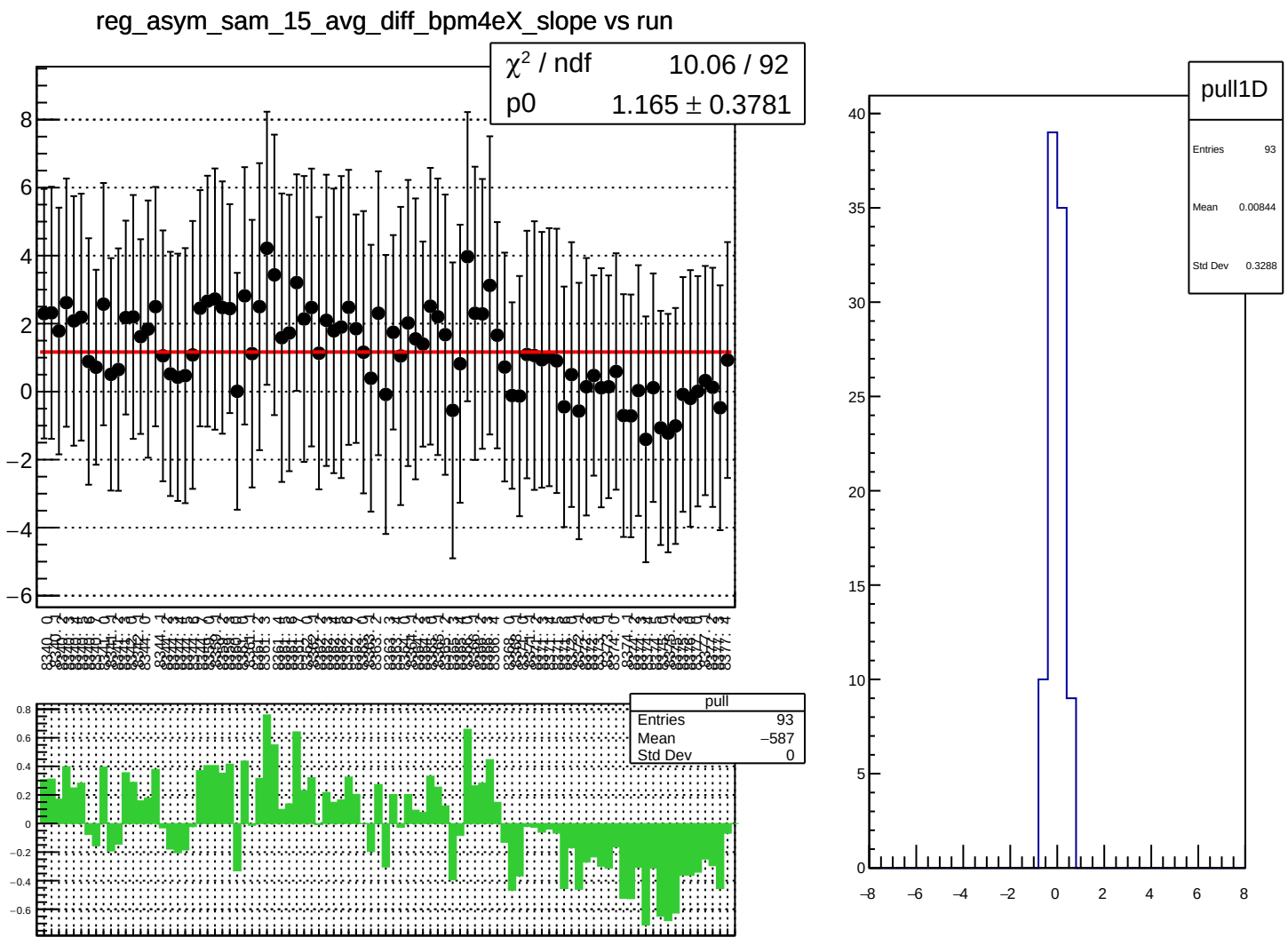

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.94 / 92
p0 −1.632 ± 2.508
pull
Entries 93
Mean 707.7
Std Dev 0
pull1D
Entries 93
Mean −0.002732
Std Dev 0.3871

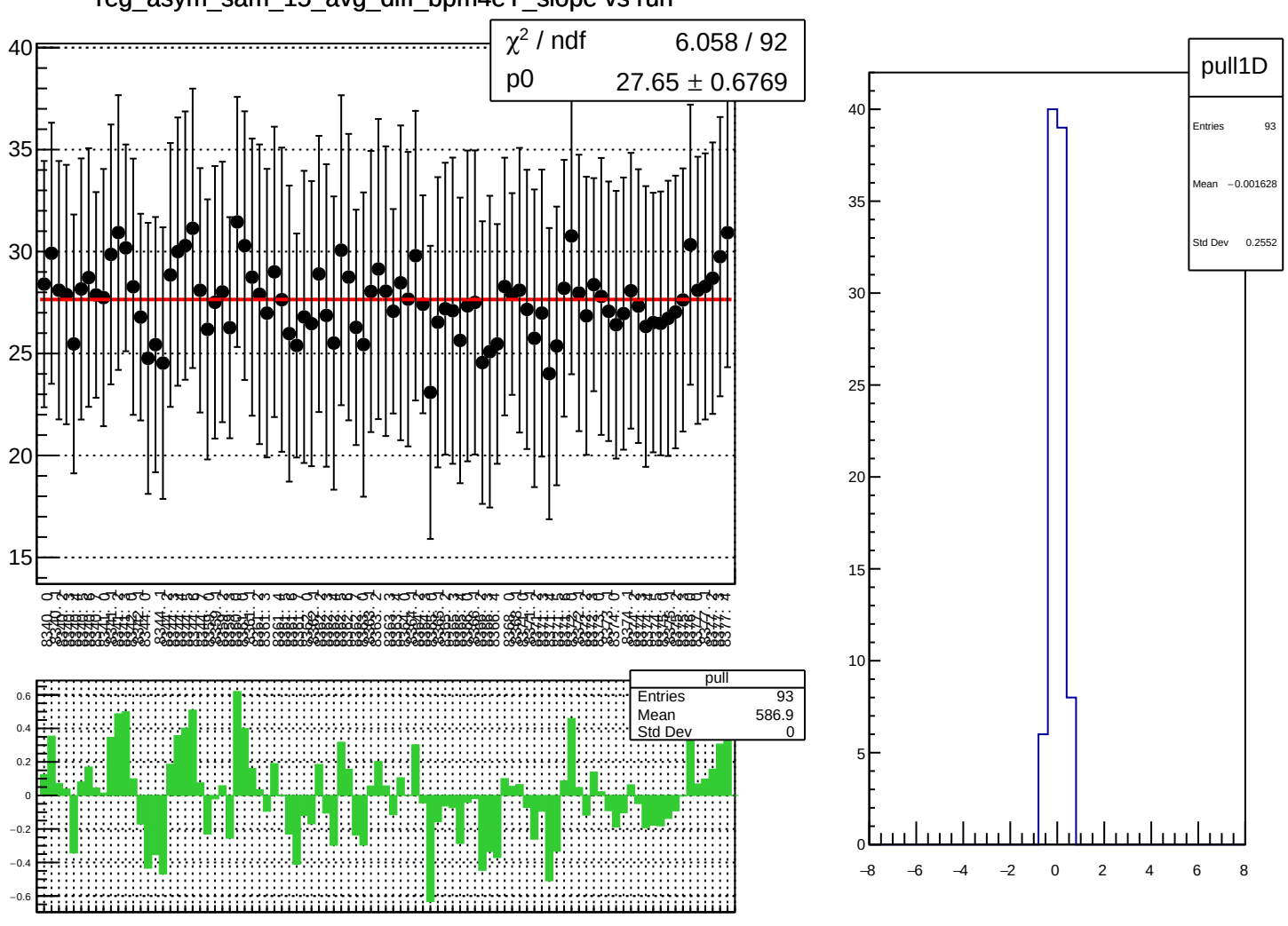

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 16.39 / 92
p0 −21.32 ± 0.1501
pull
Entries 93
Mean 170.7
Std Dev 0

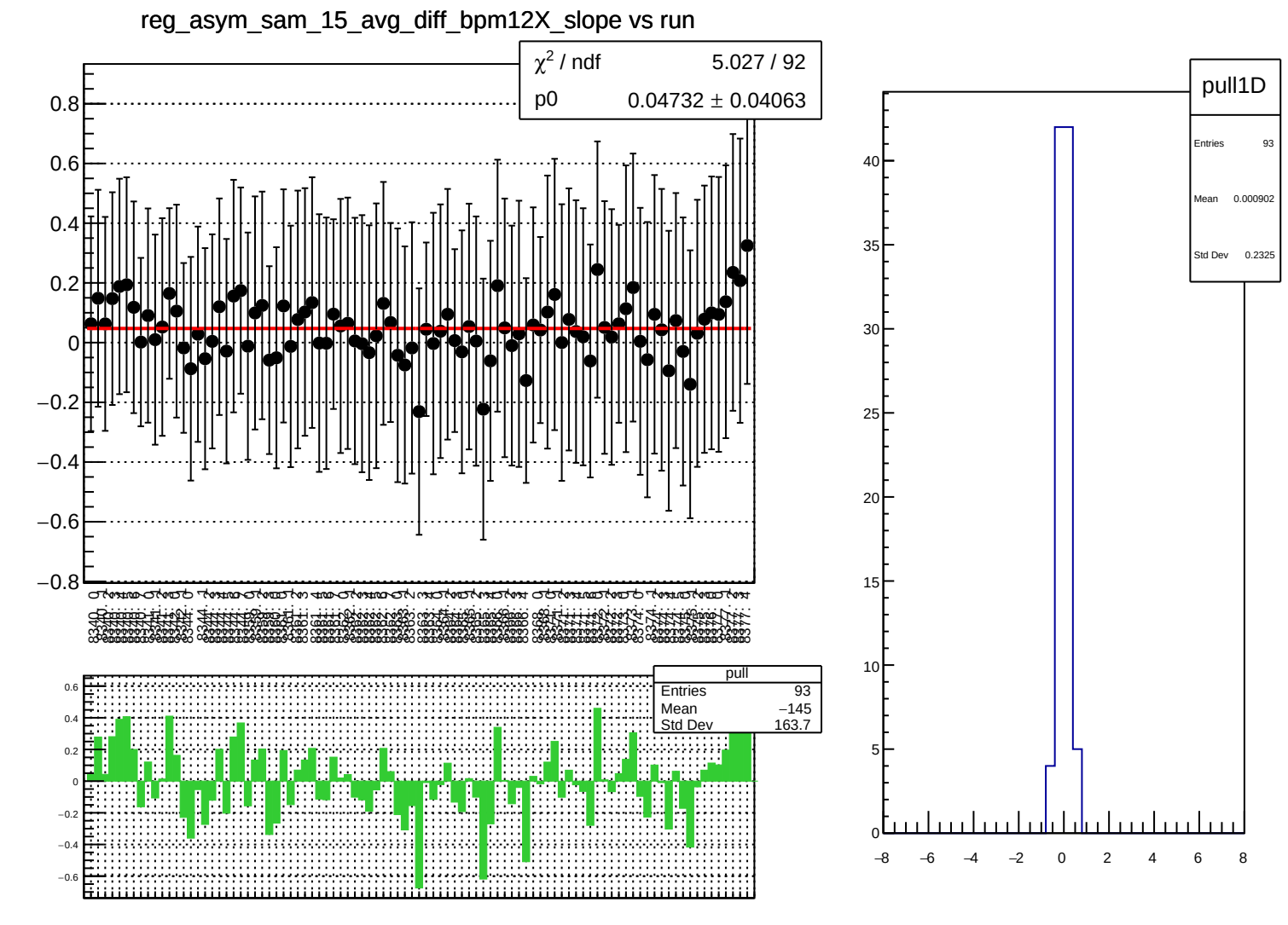

pull1D
Entries 93
Mean −0.01197
Std Dev 0.4197

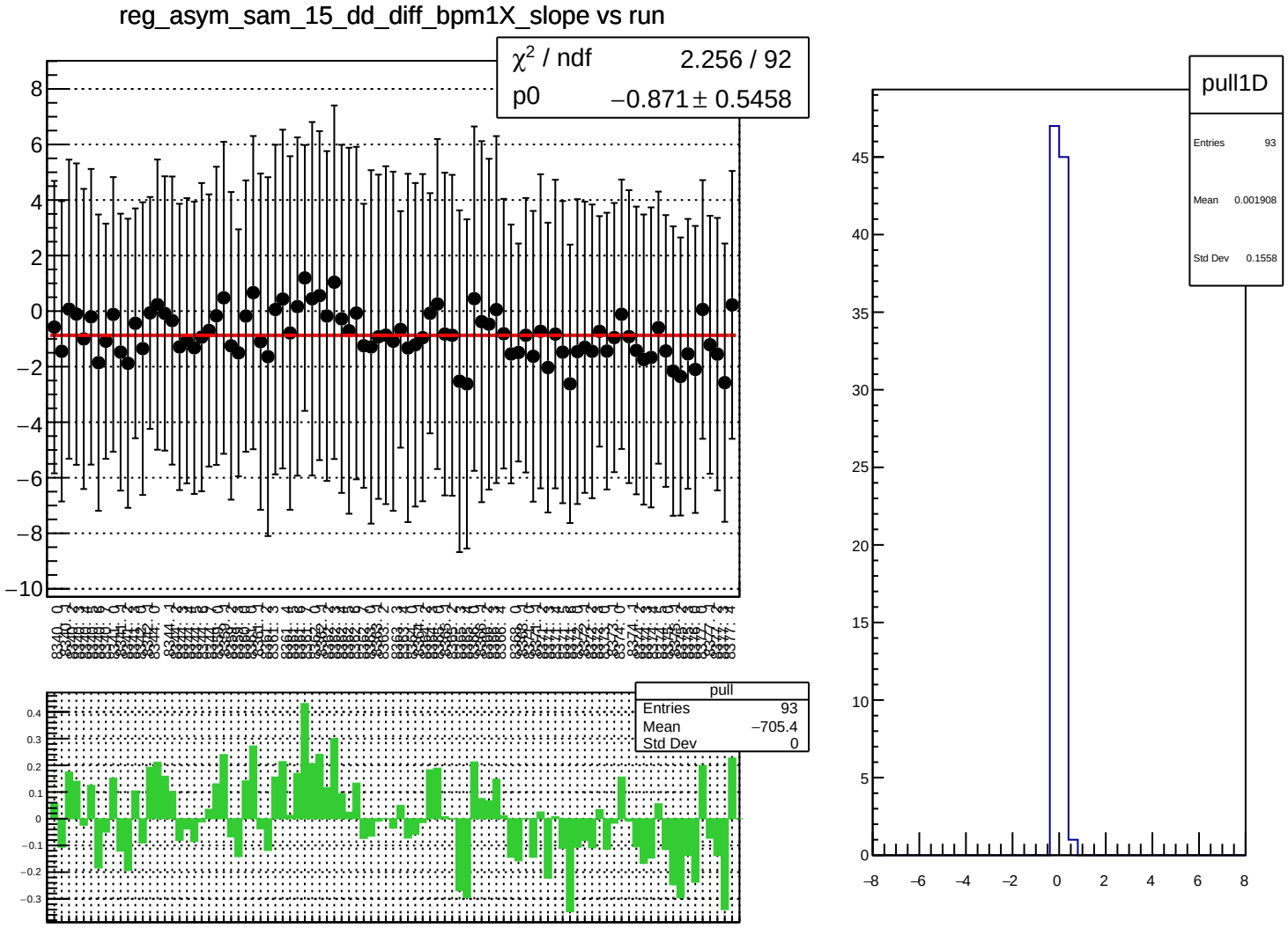

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 13.24 / 92
p0 −2.168 ± 0.3289
pull
Entries 93
Mean −368
Std Dev 0
pull1D
Entries 93
Mean −0.01544
Std Dev 0.377

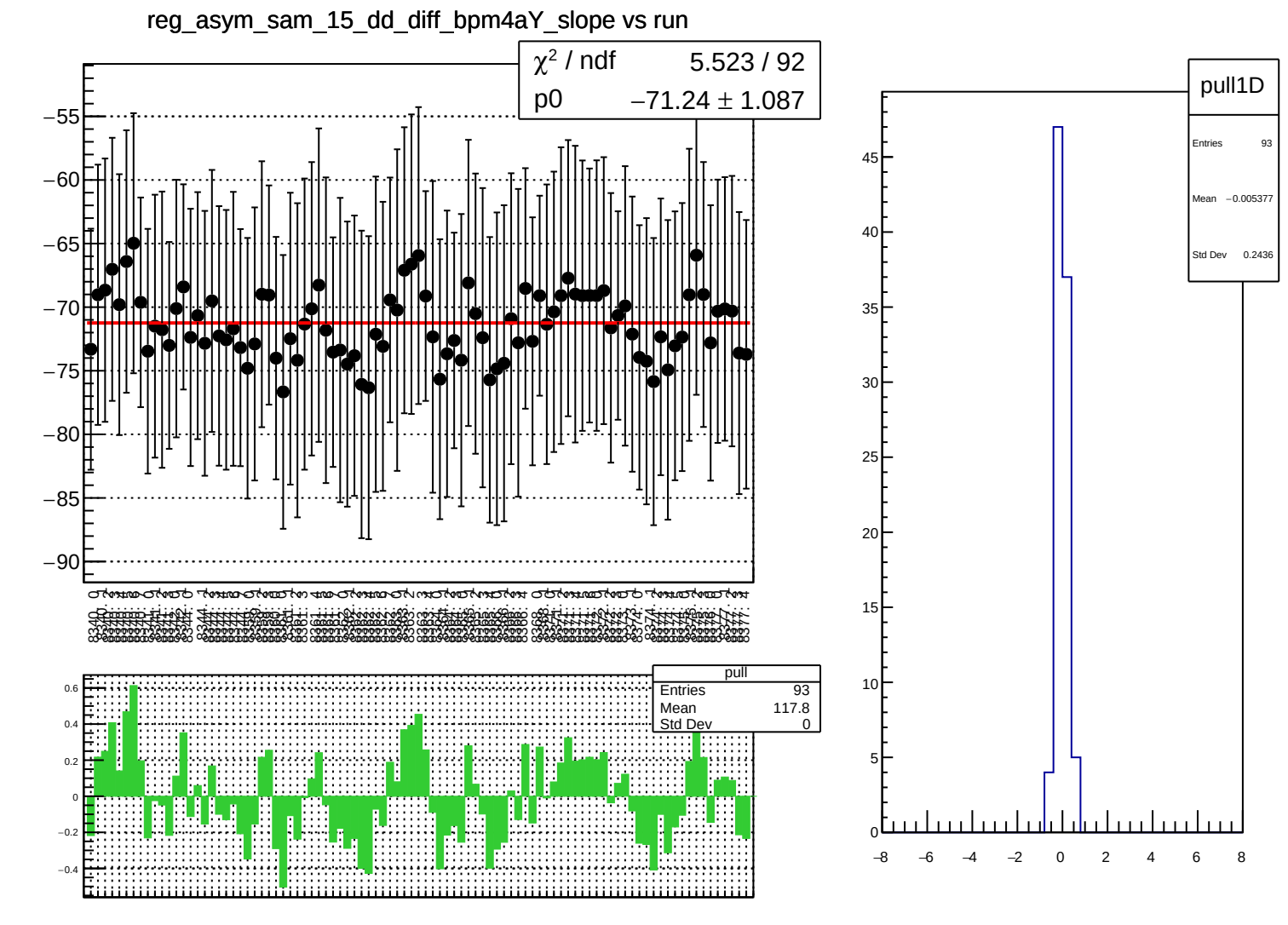

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.291 / 92
p0 28.05 ± 0.6554
pull
Entries 93
Mean 186.3
Std Dev 0
pull1D
Entries 93
Mean 0.003389
Std Dev 0.2601

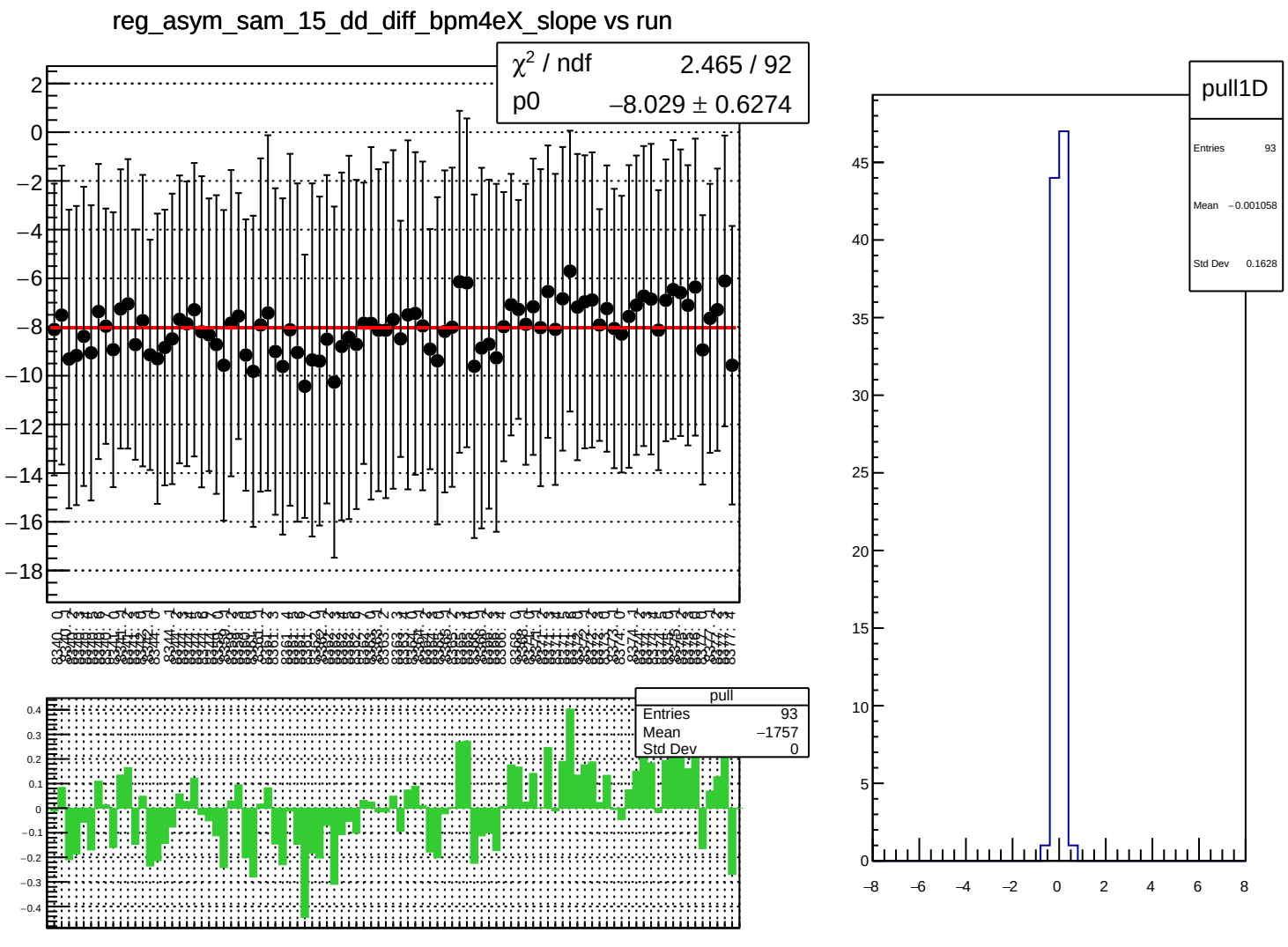

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.06 / 92
p0 1.165 ± 0.3781
pull
Entries 93
Mean −587
Std Dev 0
pull1D
Entries 93
Mean 0.00844
Std Dev 0.3288

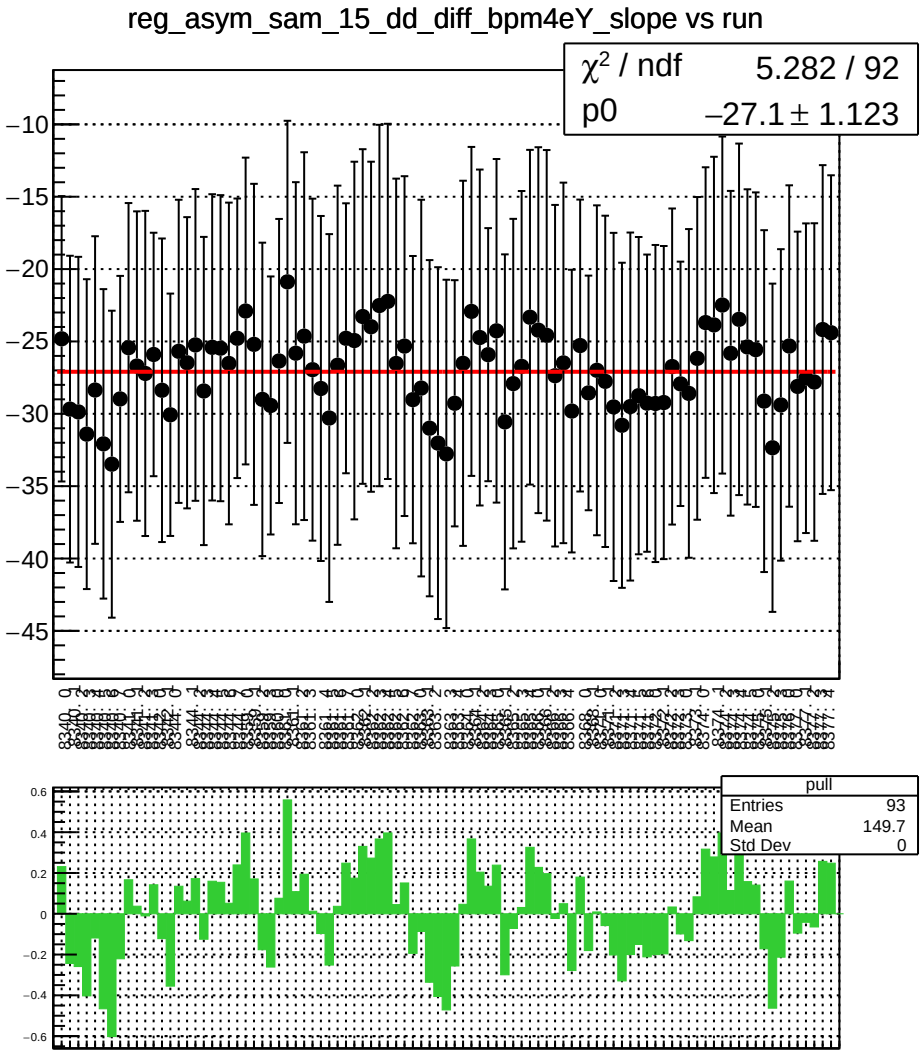

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.058 / 92
p0 27.65 ± 0.6769
pull
Entries 93
Mean 586.9
Std Dev 0
pull1D
Entries 93
Mean −0.001628
Std Dev 0.2552

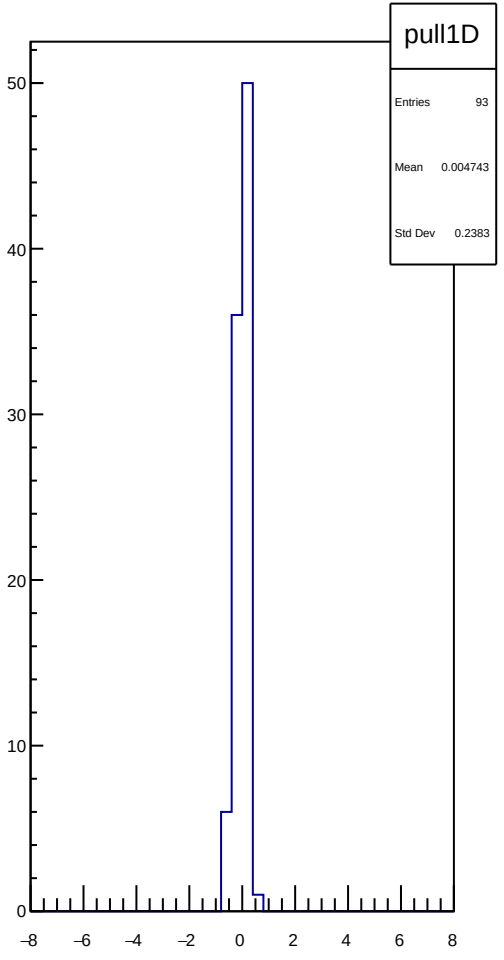

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 5.027 / 92
p0 0.04732 ± 0.04063
pull
Entries 93
Mean −145
Std Dev 163.7
pull1D
Entries 93
Mean 0.000902
Std Dev 0.2325

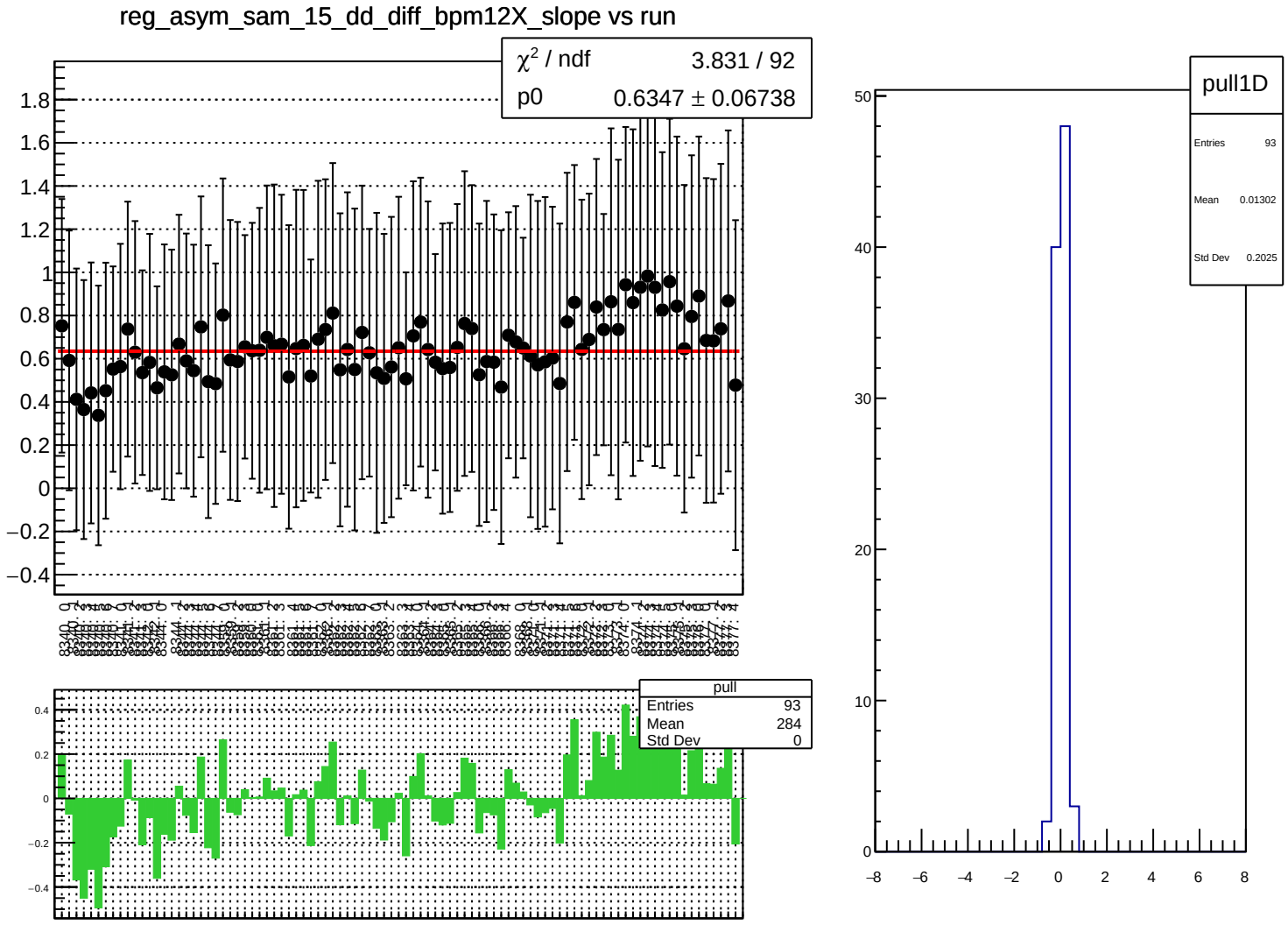

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 2.256 / 92
p0 −0.871 ± 0.5458
pull
Entries 93
Mean −705.4
Std Dev 0
pull1D
Entries 93
Mean 0.001908
Std Dev 0.1558

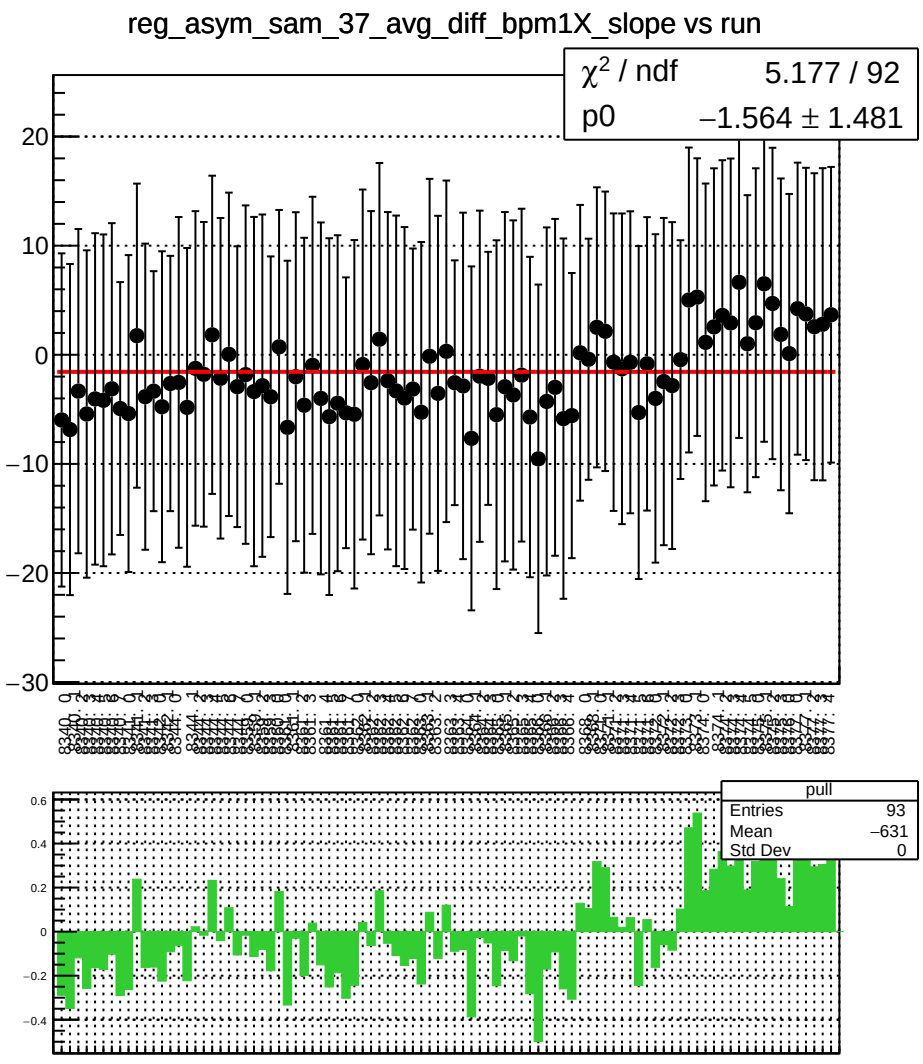

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.523 / 92
p0 −71.24 ± 1.087
pull
Entries 93
Mean 117.8
Std Dev 0
pull1D
Entries 93
Mean −0.005377
Std Dev 0.2436

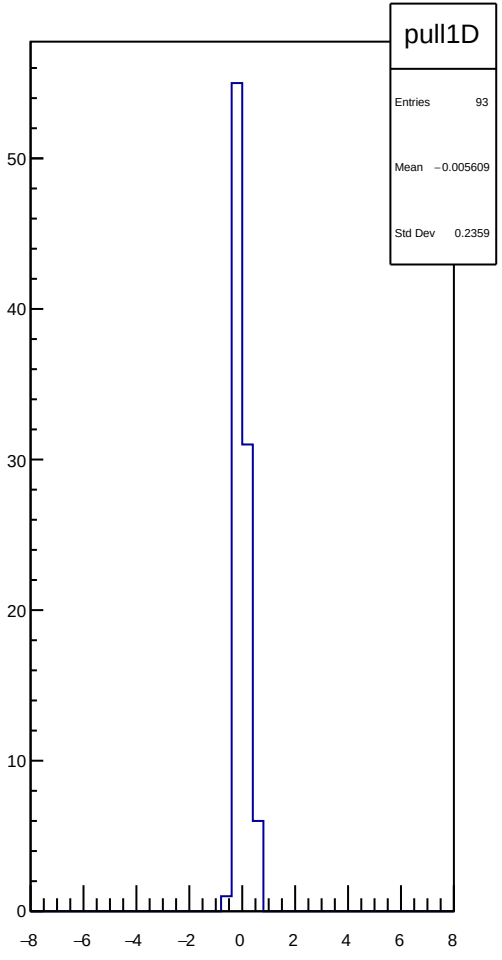

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.465 / 92
p0 −8.029 ± 0.6274
pull
Entries 93
Mean −1757
Std Dev 0
pull1D
Entries 93
Mean −0.001058
Std Dev 0.1628

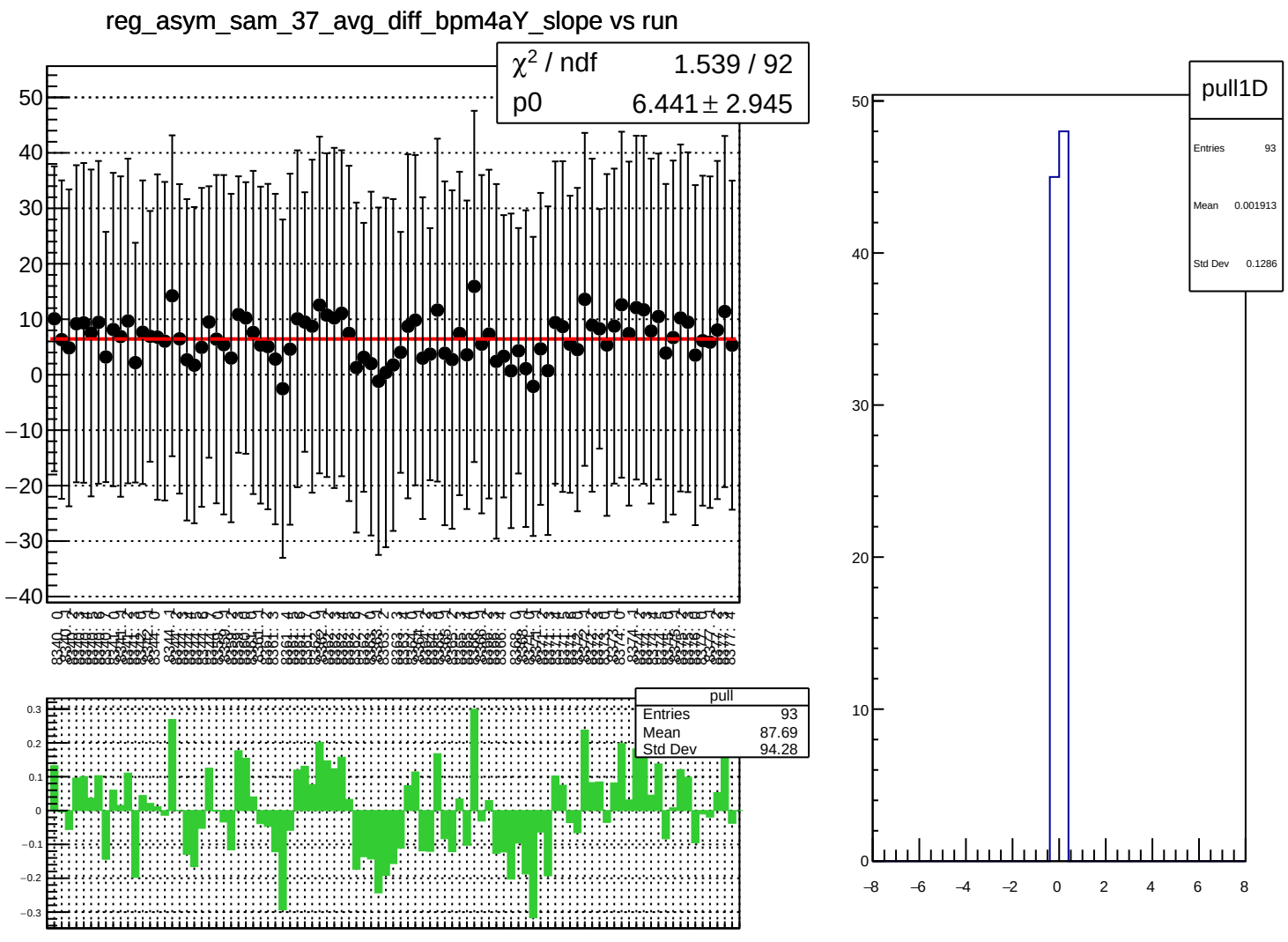

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.282 / 92
p0 −27.1 ± 1.123
−10
−15
−20
−25
−30
−35
−40
−45
pull
Entries 93
Mean 149.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

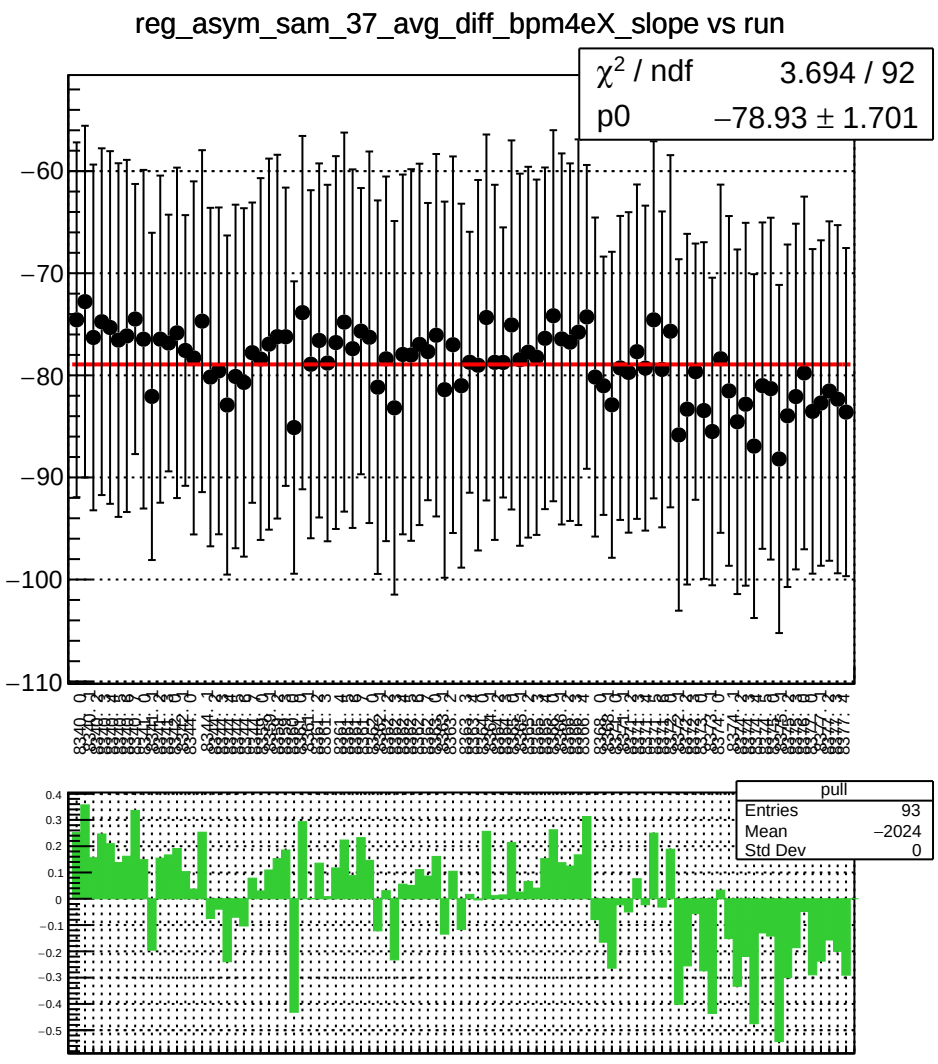

pull1D
Entries 93
Mean 0.004743
Std Dev 0.2383
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

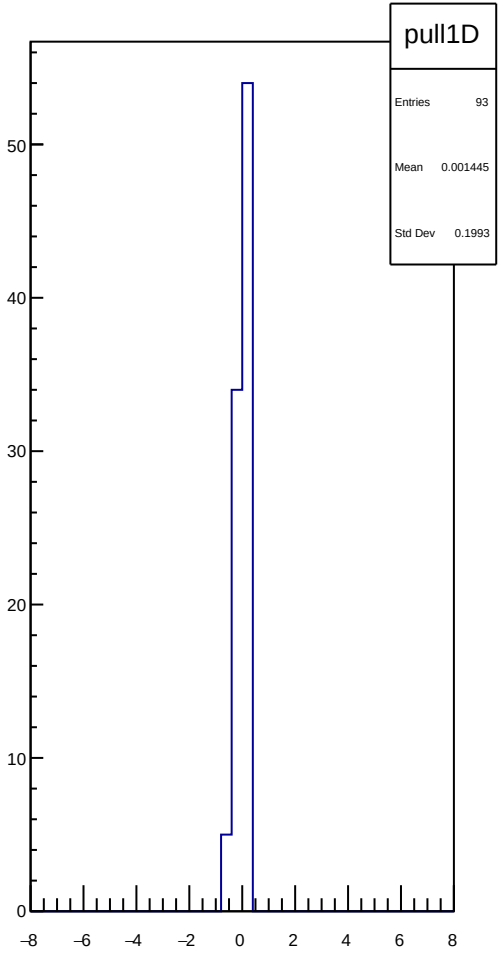

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 3.831 / 92
p0 0.6347 ± 0.06738
pull
Entries 93
Mean 284
Std Dev 0
pull1D
Entries 93
Mean 0.01302
Std Dev 0.2025

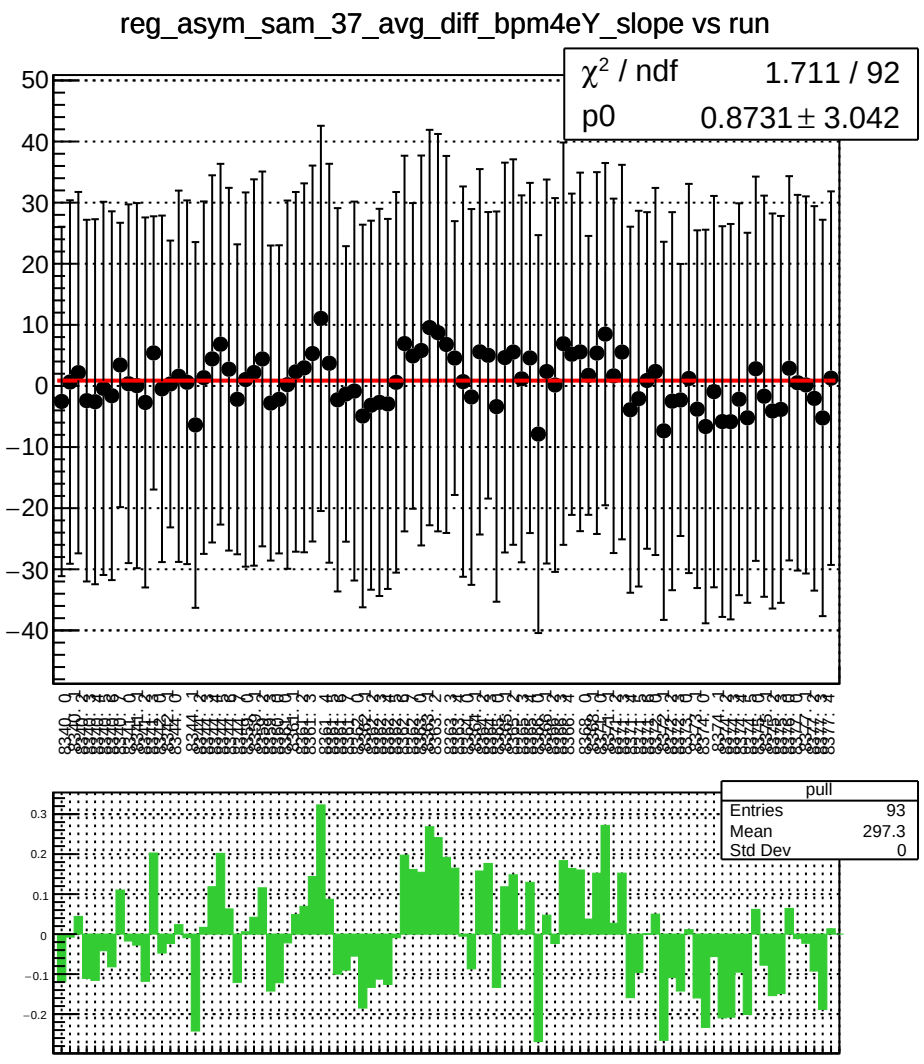

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.177 / 92
p0 −1.564 ± 1.481
pull
Entries 93
Mean −631
Std Dev 0

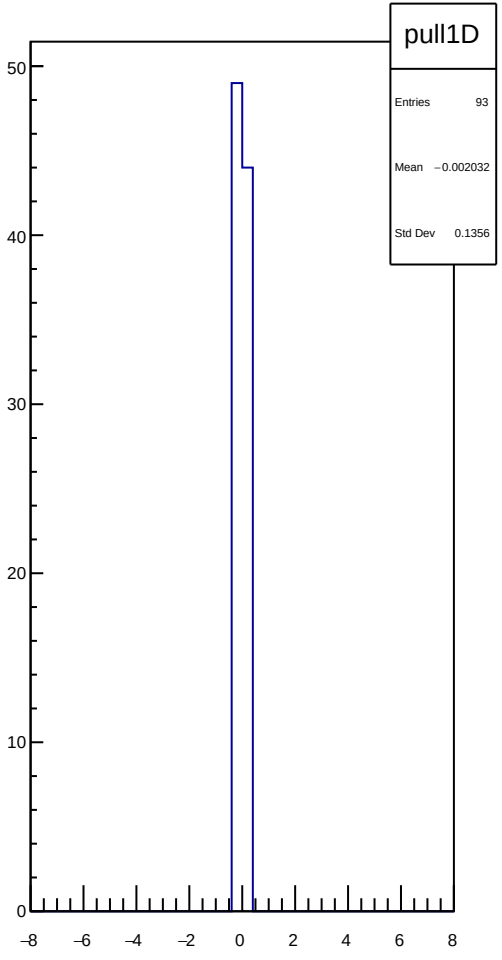

pull1D
Entries 93
Mean −0.005609
Std Dev 0.2359

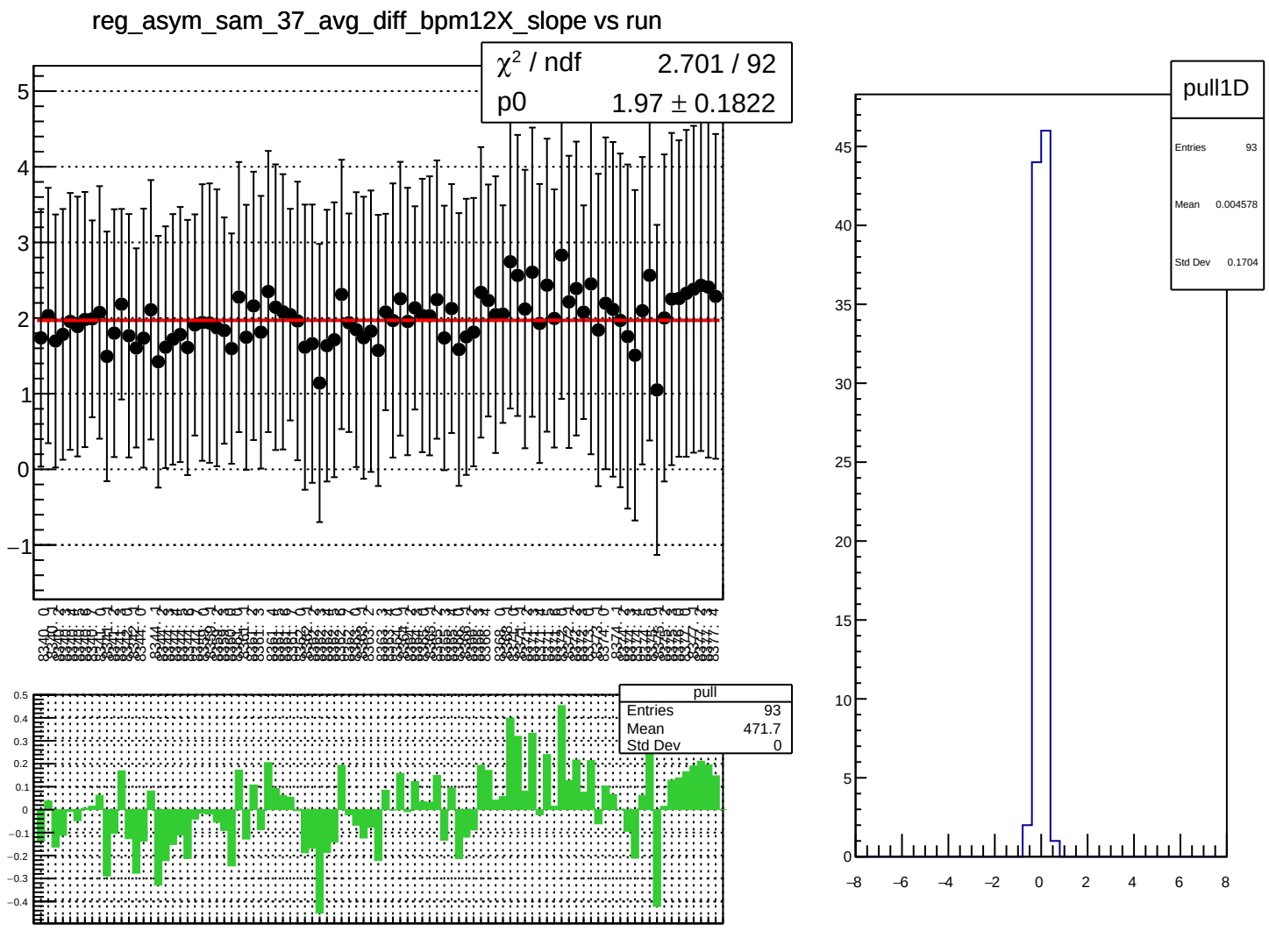

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.539 / 92
p0 6.441 ± 2.945
pull
Entries 93
Mean 87.69
Std Dev 94.28
pull1D
Entries 93
Mean 0.001913
Std Dev 0.1286

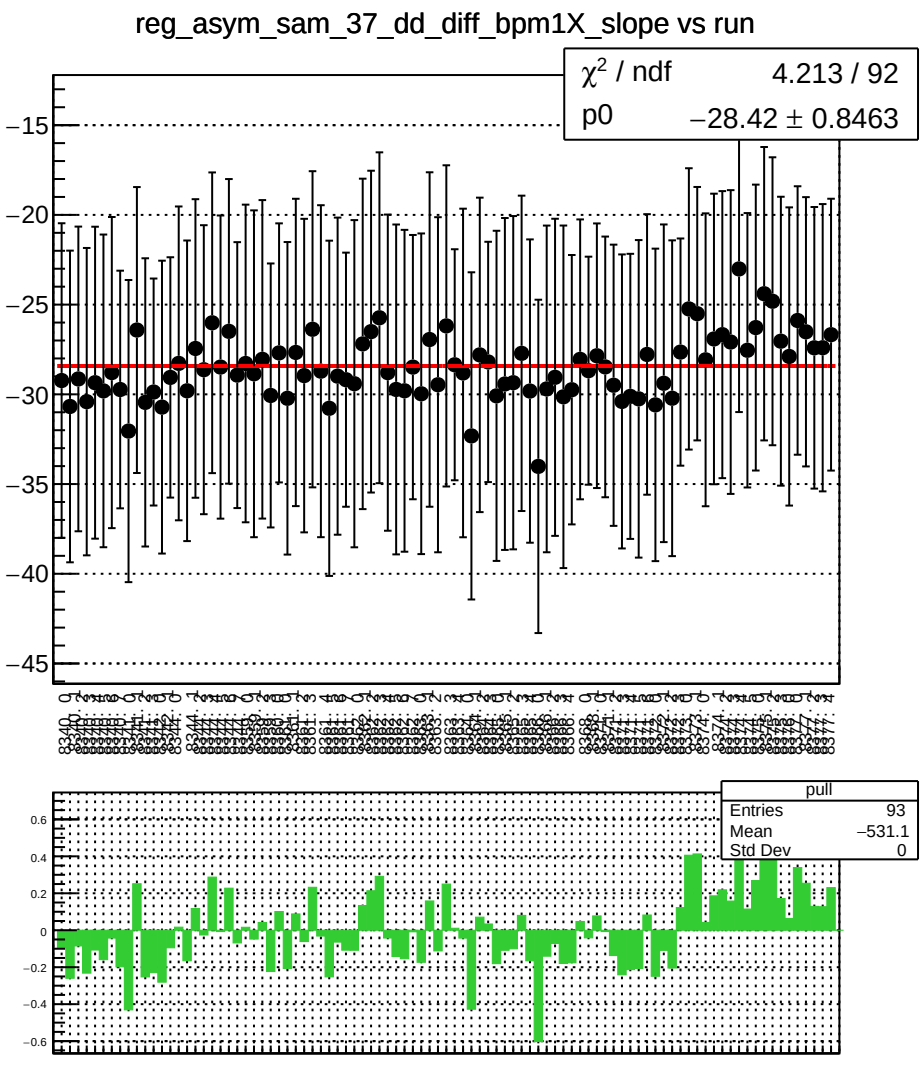

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.694 / 92
p0 −78.93 ± 1.701
pull
Entries 93
Mean −2024
Std Dev 0

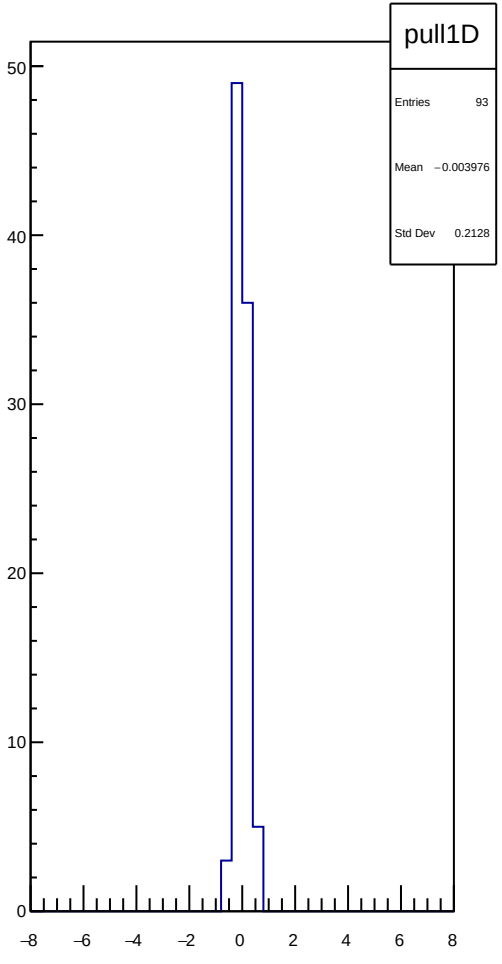

pull1D
Entries 93
Mean 0.001445
Std Dev 0.1993

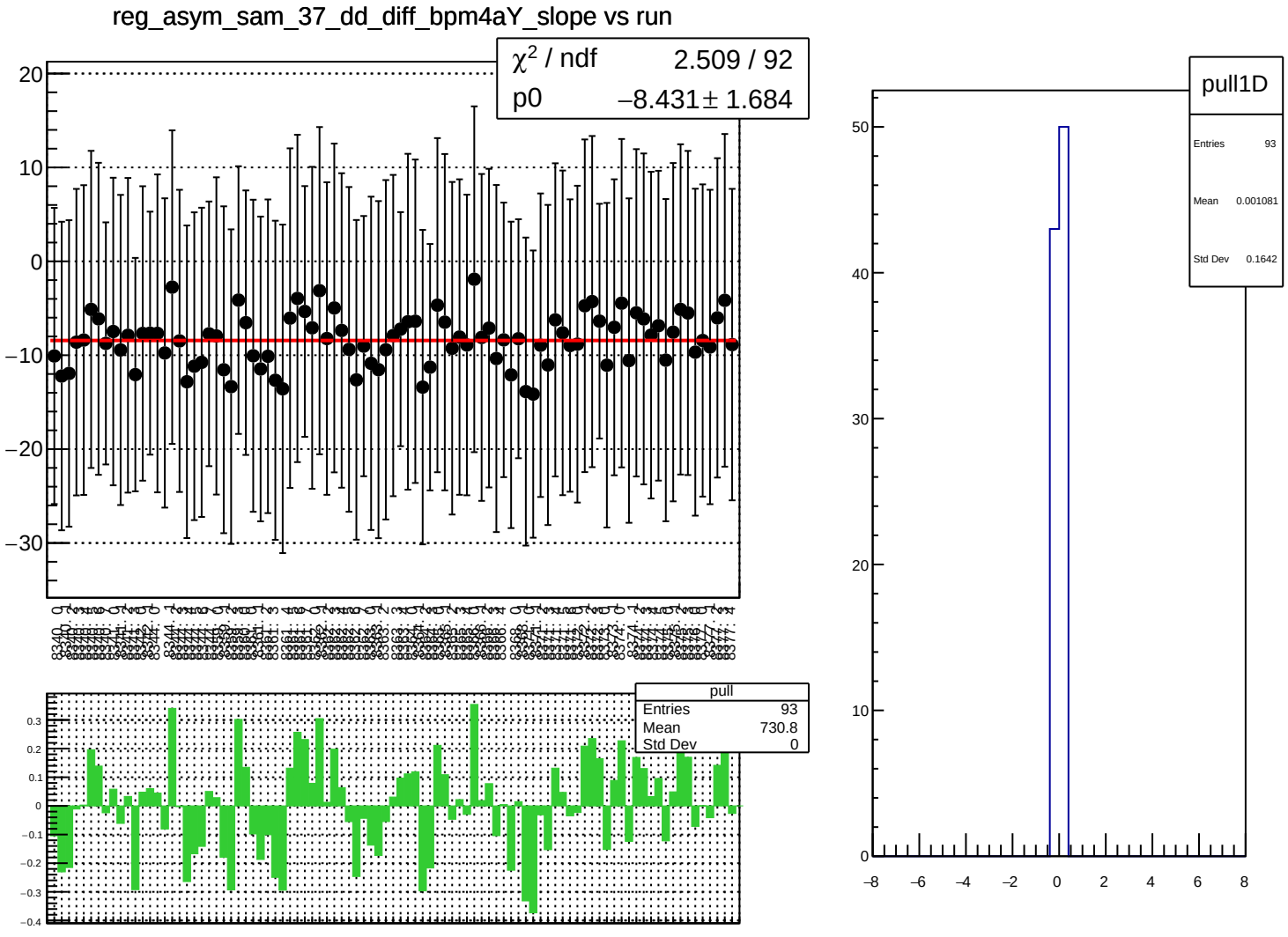

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.711 / 92
p0 0.8731 ± 3.042
pull
Entries 93
Mean 297.3
Std Dev 0

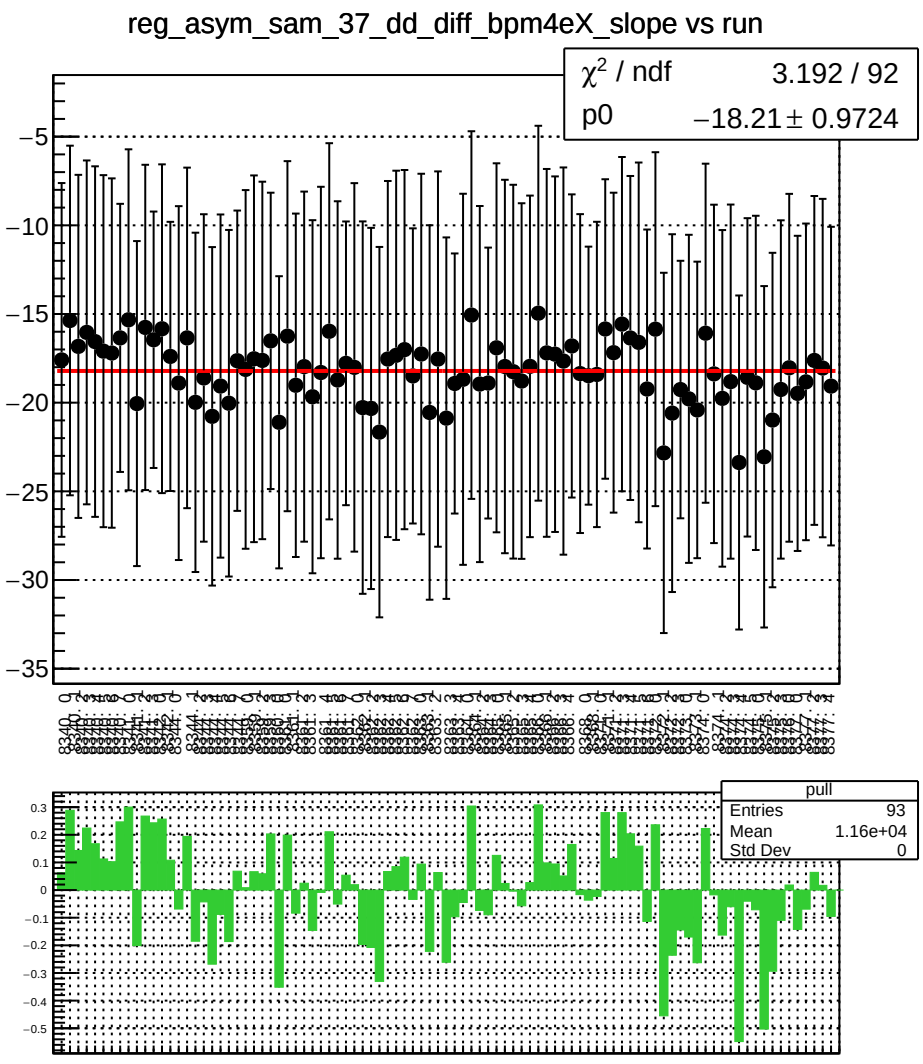

pull1D
Entries 93
Mean −0.002032
Std Dev 0.1356

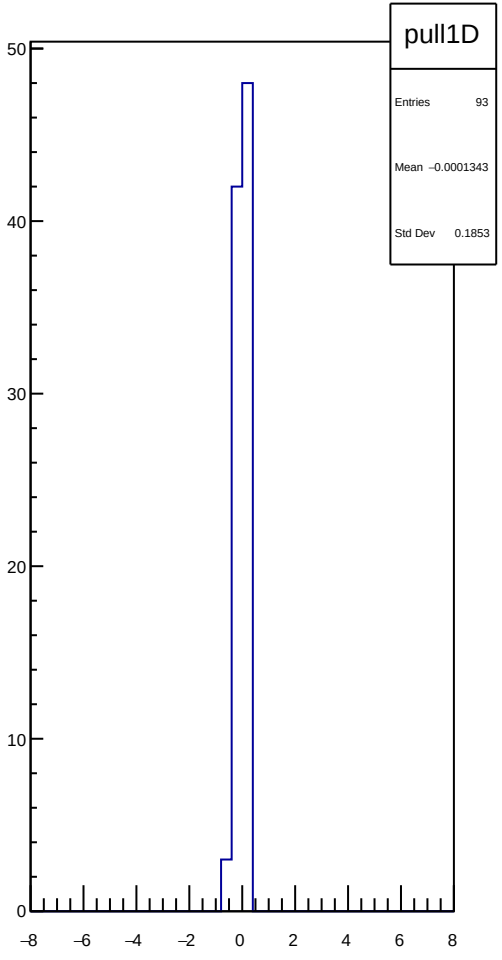

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.701 / 92
p0 1.97 ± 0.1822
pull
Entries 93
Mean 471.7
Std Dev 0
pull1D
Entries 93
Mean 0.004578
Std Dev 0.1704

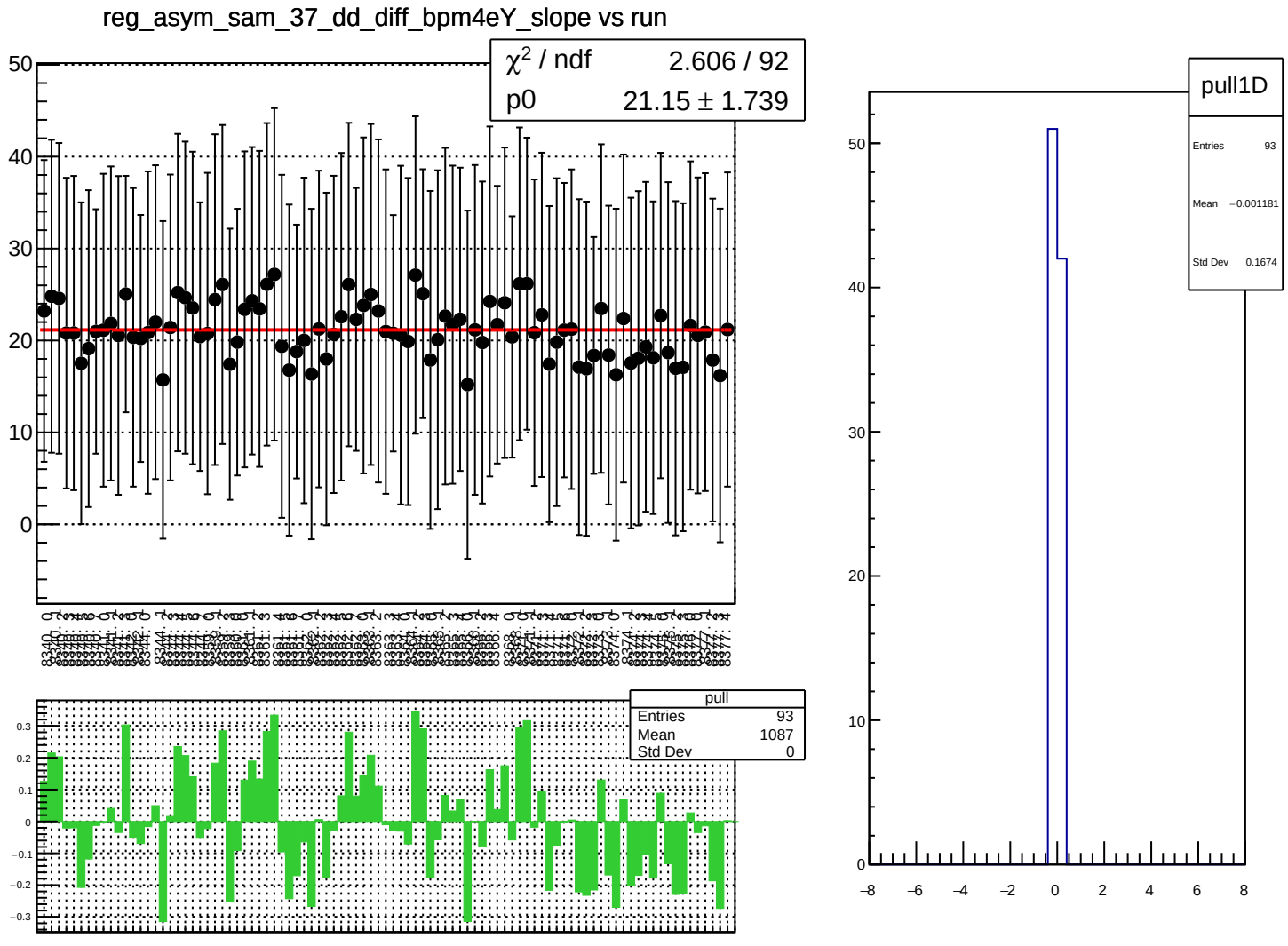

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.213 / 92
p0 −28.42 ± 0.8463
pull
Entries 93
Mean −531.1
Std Dev 0

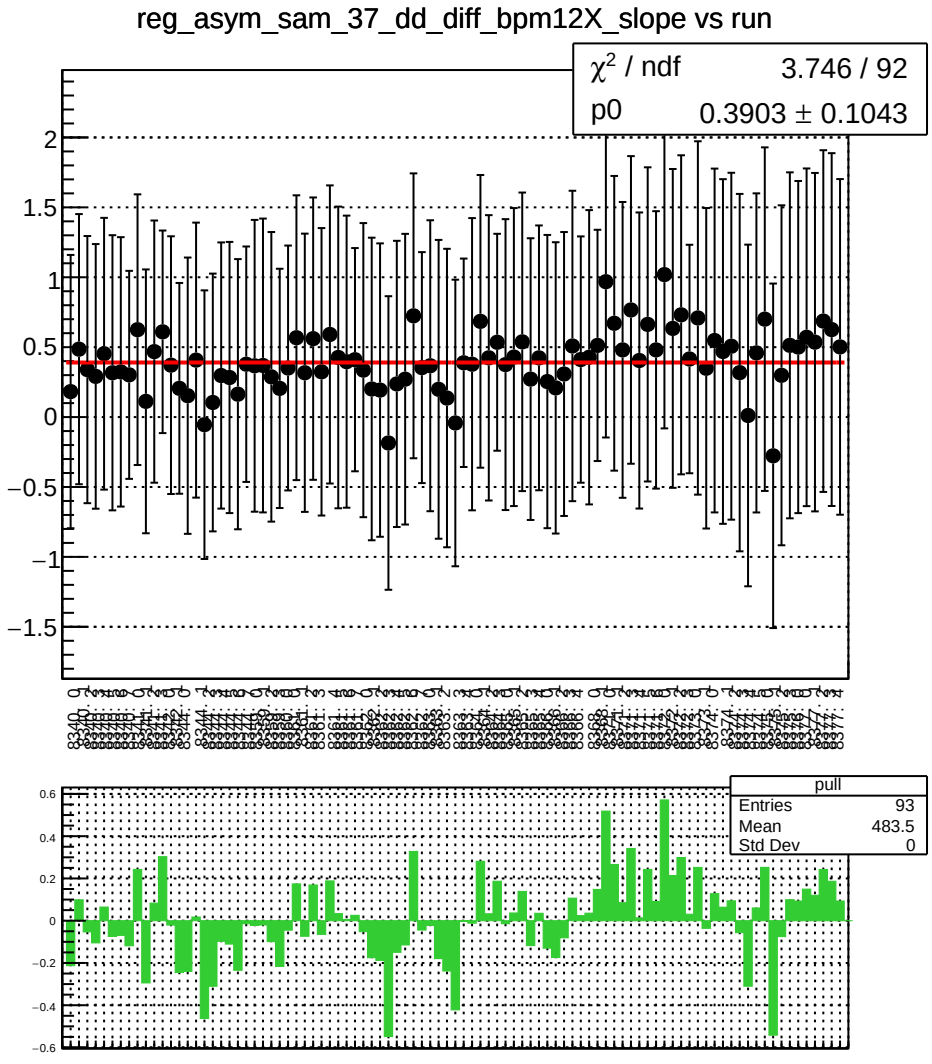

pull1D
Entries 93
Mean −0.003976
Std Dev 0.2128

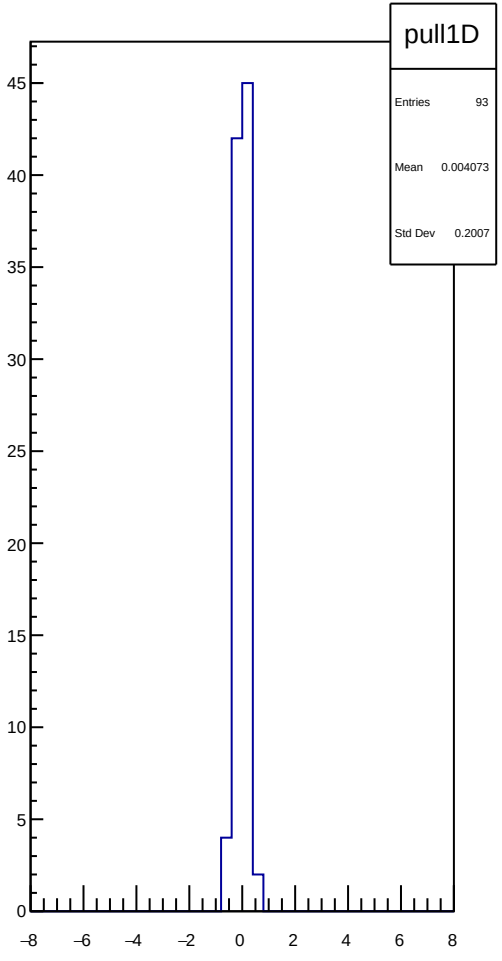

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.509 / 92
p0 −8.431 ± 1.684
pull
Entries 93
Mean 730.8
Std Dev 0
pull1D
Entries 93
Mean 0.001081
Std Dev 0.1642

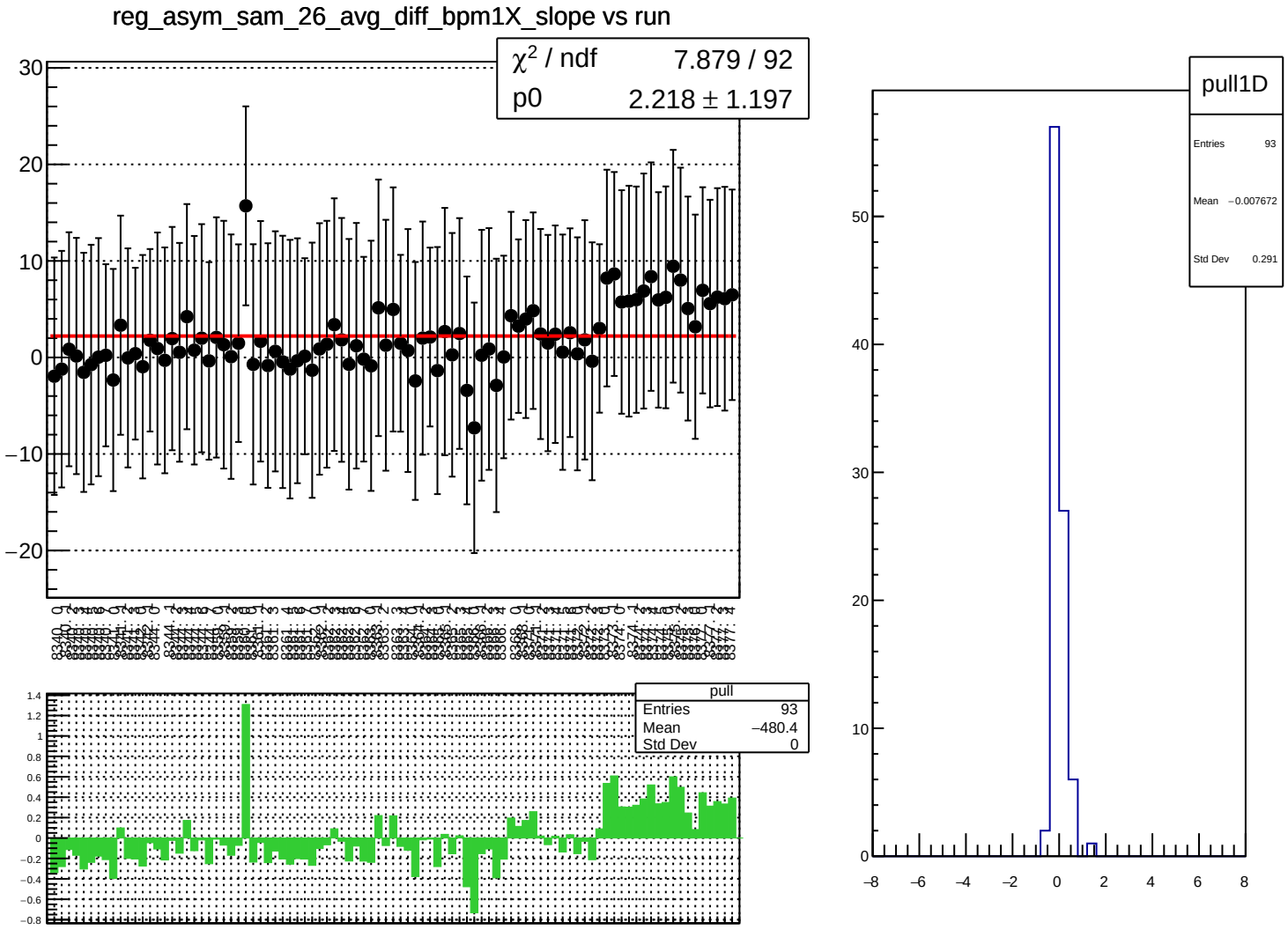

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.192 / 92
p0 −18.21 ± 0.9724
pull
Entries 93
Mean 1.16e+04
Std Dev 0

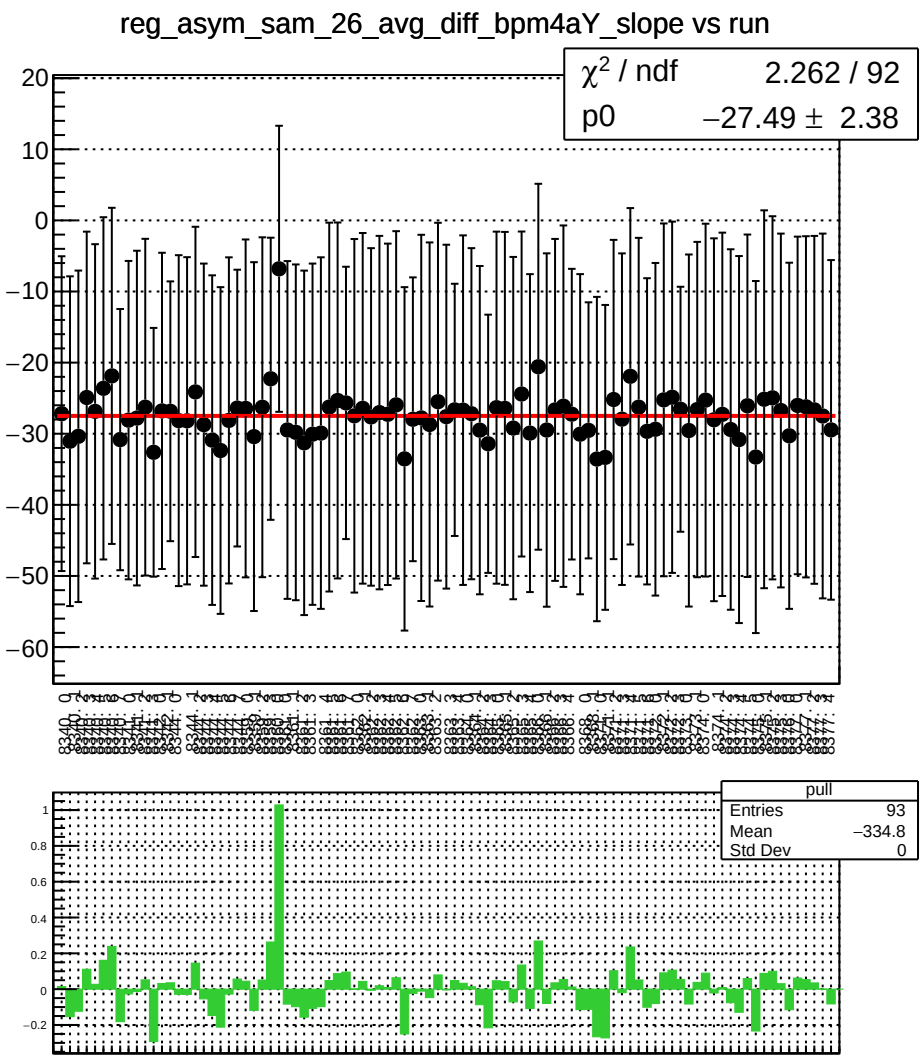

pull1D
Entries 93
Mean −0.0001343
Std Dev 0.1853

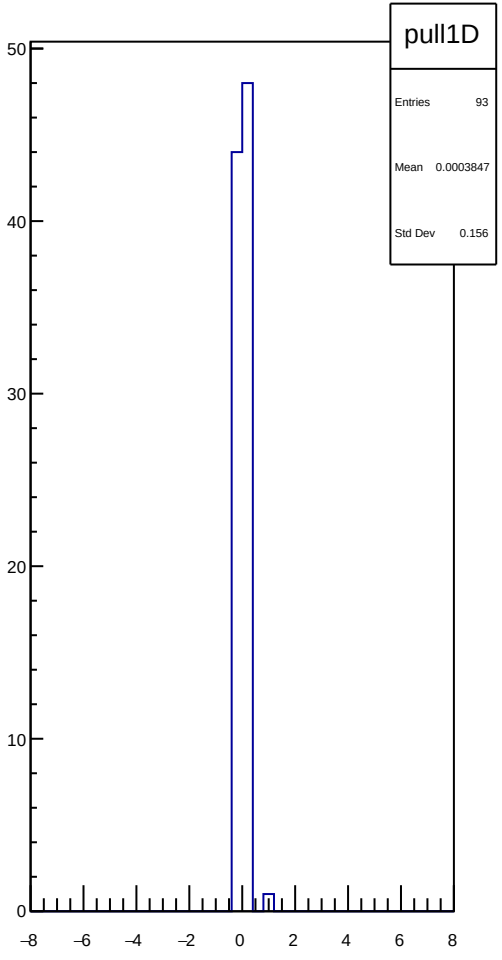

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.606 / 92
p0 21.15 ± 1.739
pull
Entries 93
Mean 1087
Std Dev 0
pull1D
Entries 93
Mean −0.001181
Std Dev 0.1674

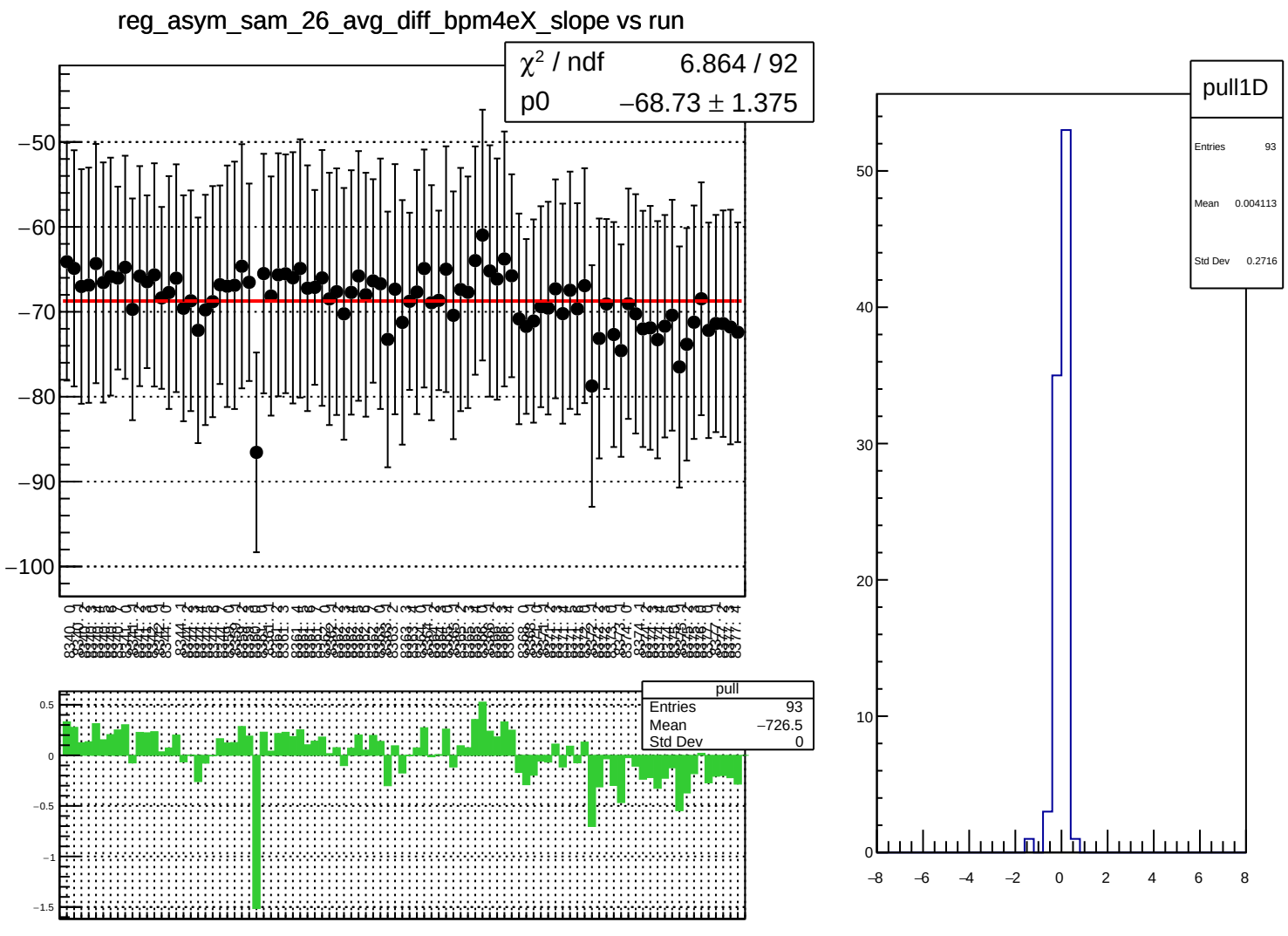

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.746 / 92
p0 0.3903 ± 0.1043
pull
Entries 93
Mean 483.5
Std Dev 0

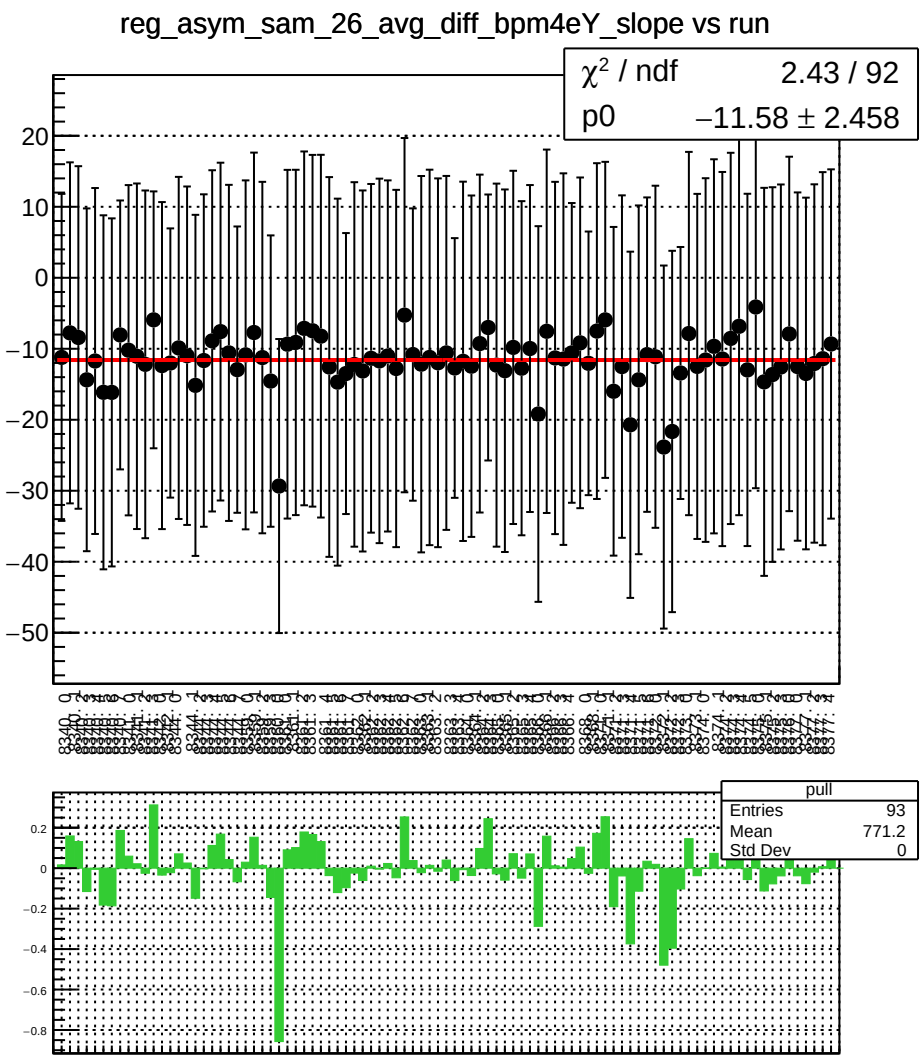

pull1D
Entries 93
Mean 0.004073
Std Dev 0.2007

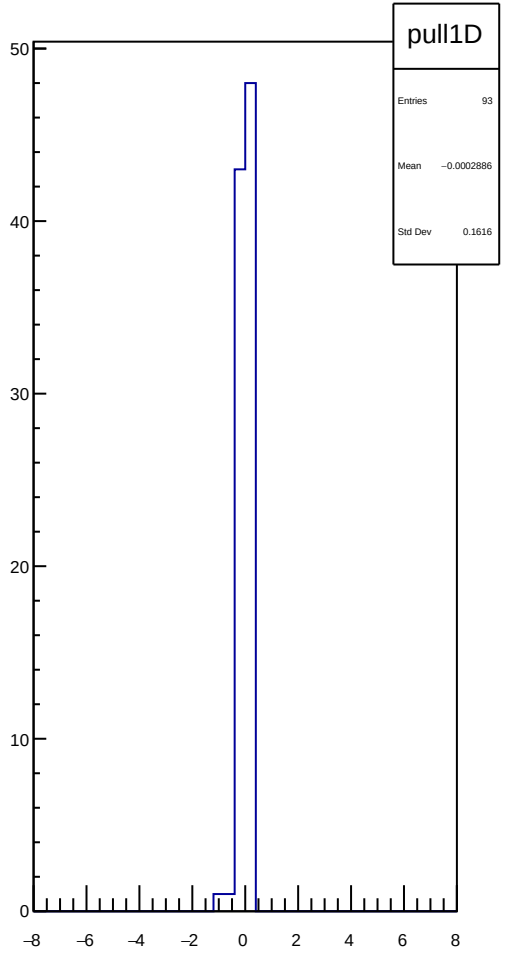

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 7.879 / 92
p0 2.218 ± 1.197
pull
Entries 93
Mean −480.4
Std Dev 0
pull1D
Entries 93
Mean −0.007672
Std Dev 0.291

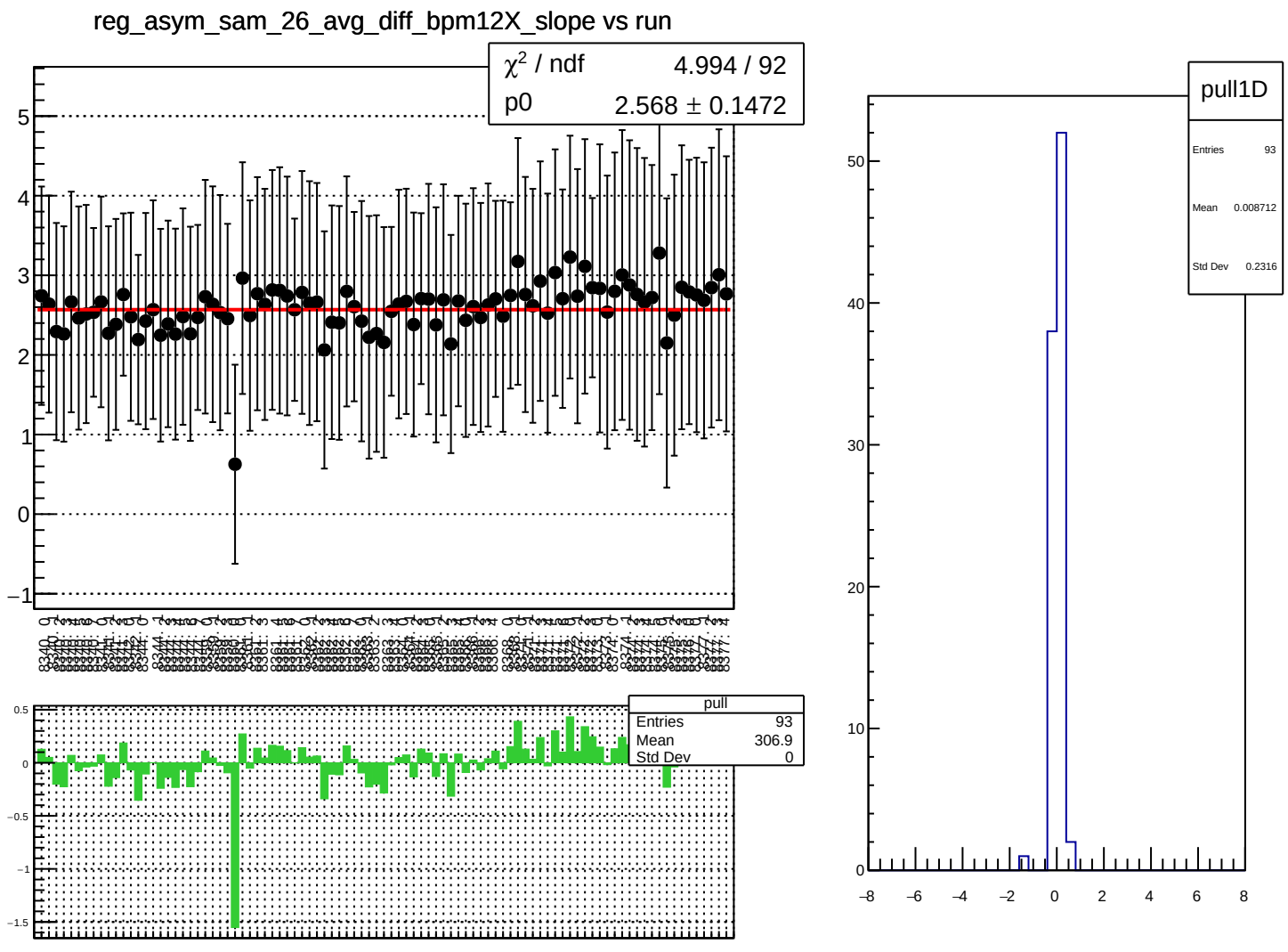

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.262 / 92
p0 −27.49 ± 2.38
pull
Entries 93
Mean −334.8
Std Dev 0

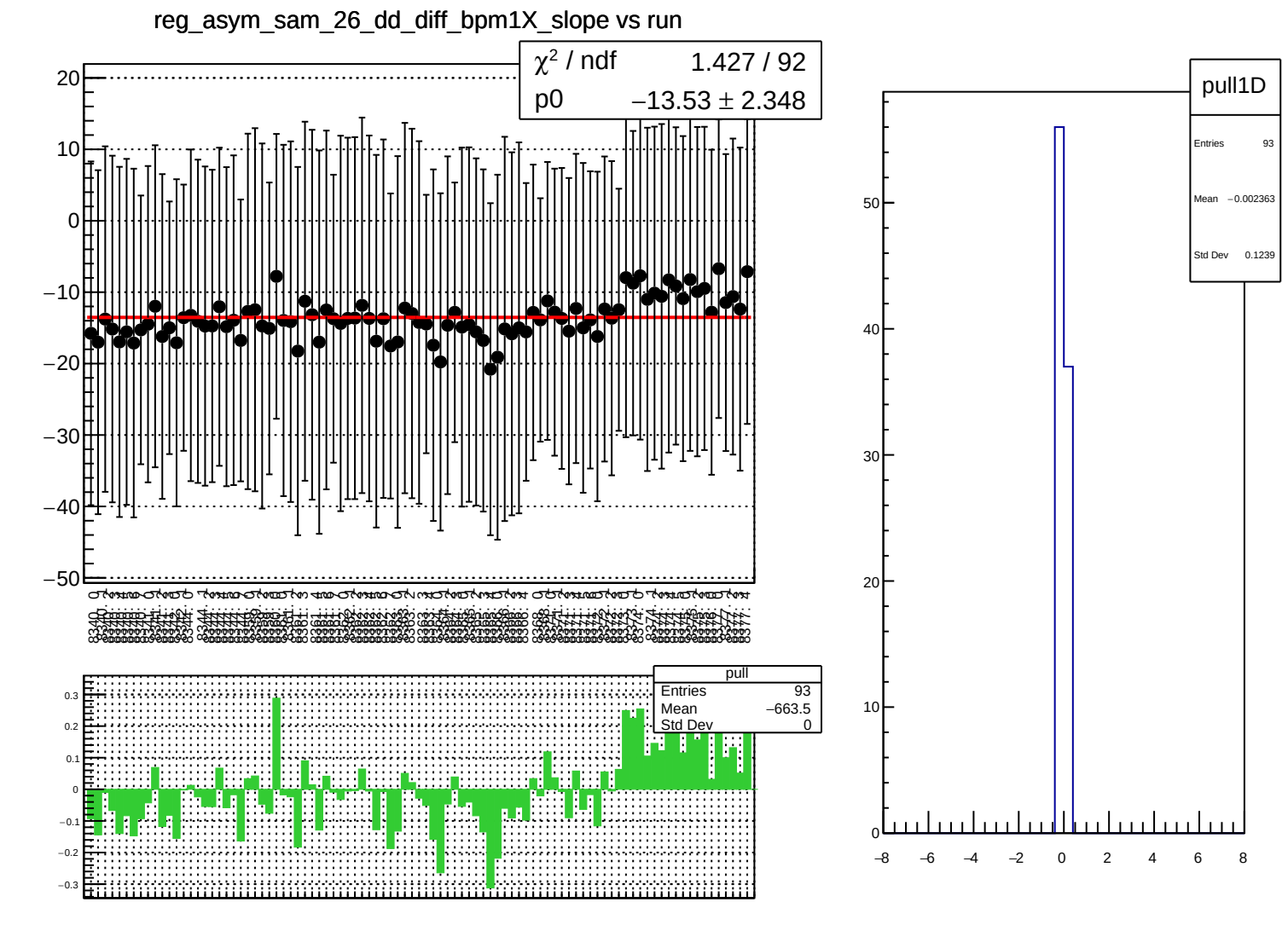

pull1D
Entries 93
Mean 0.0003847
Std Dev 0.156

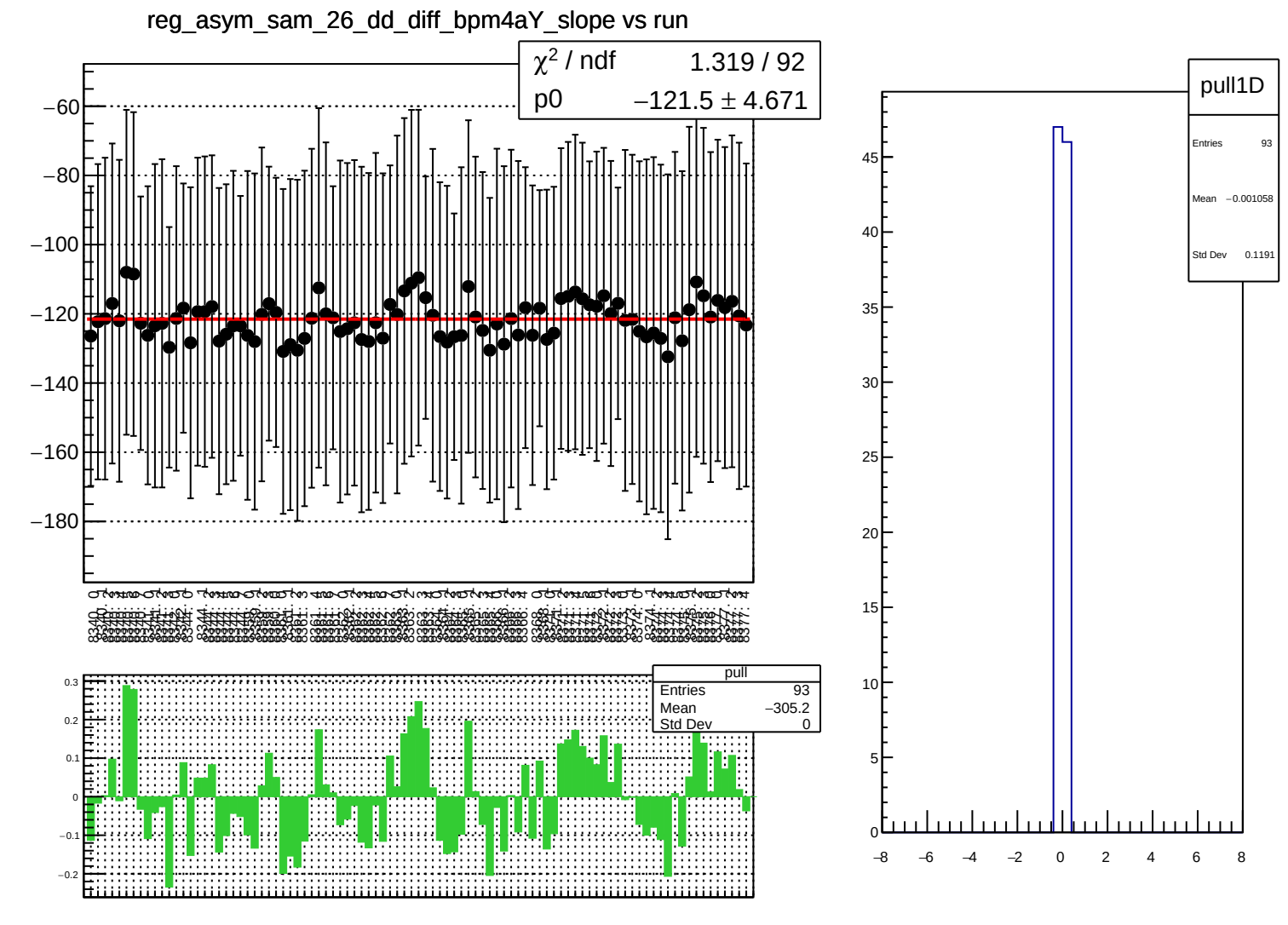

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.864 / 92
p0 −68.73 ± 1.375
−50
−60
−70
−80
−90
−100
pull
Entries 93
Mean −726.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.004113
Std Dev 0.2716
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

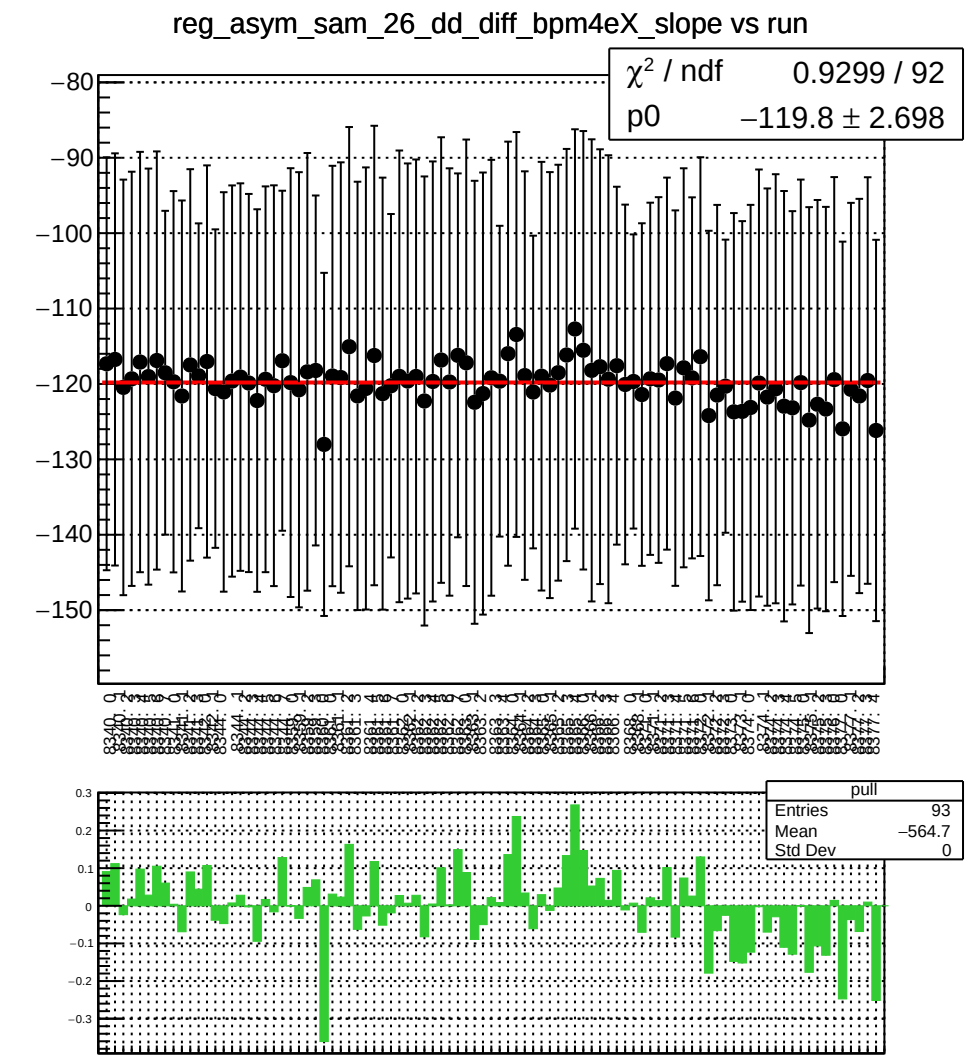

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.43 / 92
p0 −11.58 ± 2.458
pull
Entries 93
Mean 771.2
Std Dev 0

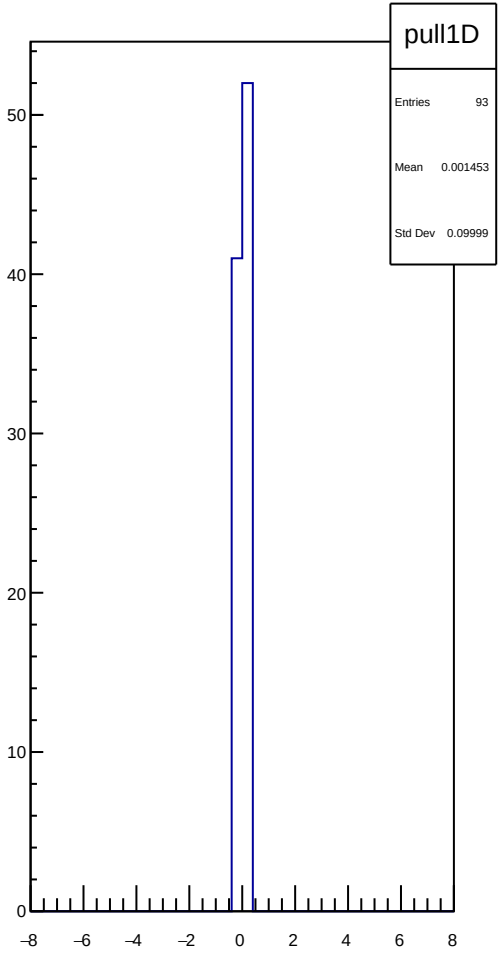

pull1D
Entries 93
Mean −0.0002886
Std Dev 0.1616

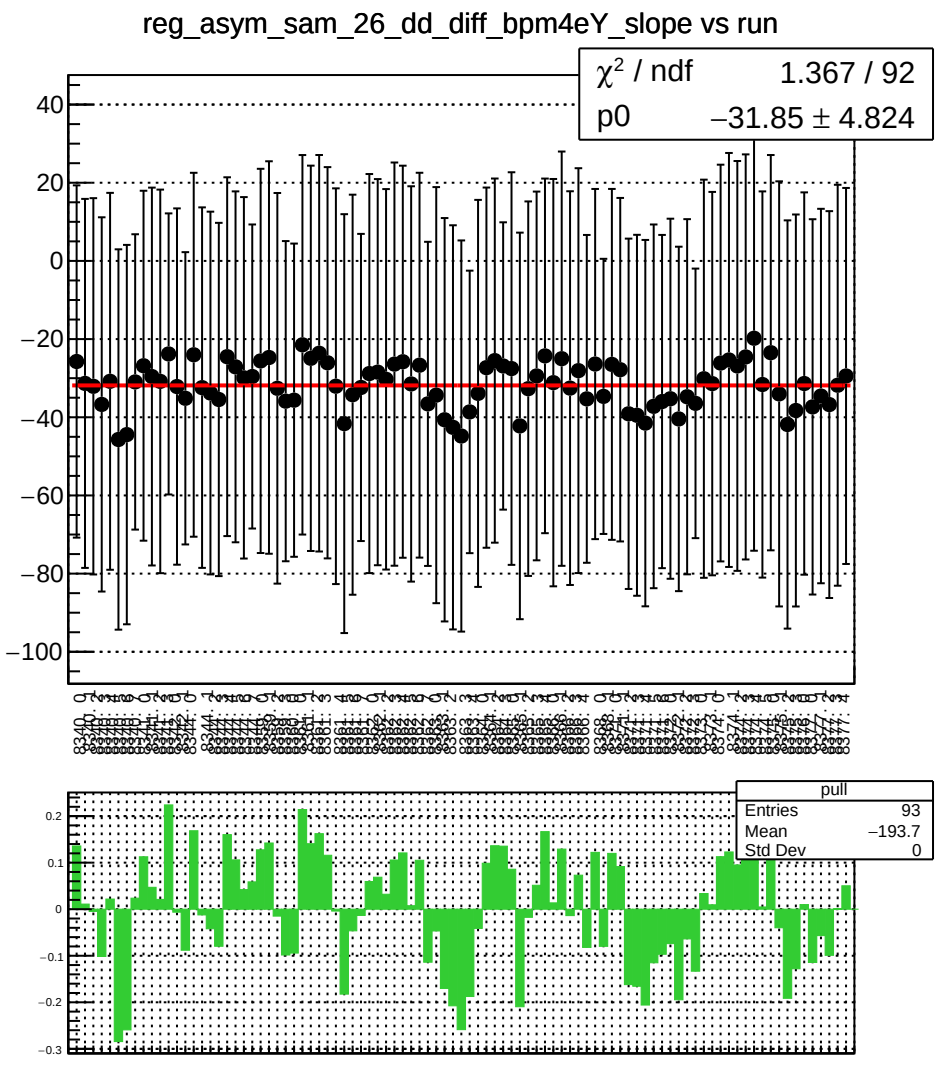

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 4.994 / 92
p0 2.568 ± 0.1472
pull
Entries 93
Mean 306.9
Std Dev 0
pull1D
Entries 93
Mean 0.008712
Std Dev 0.2316

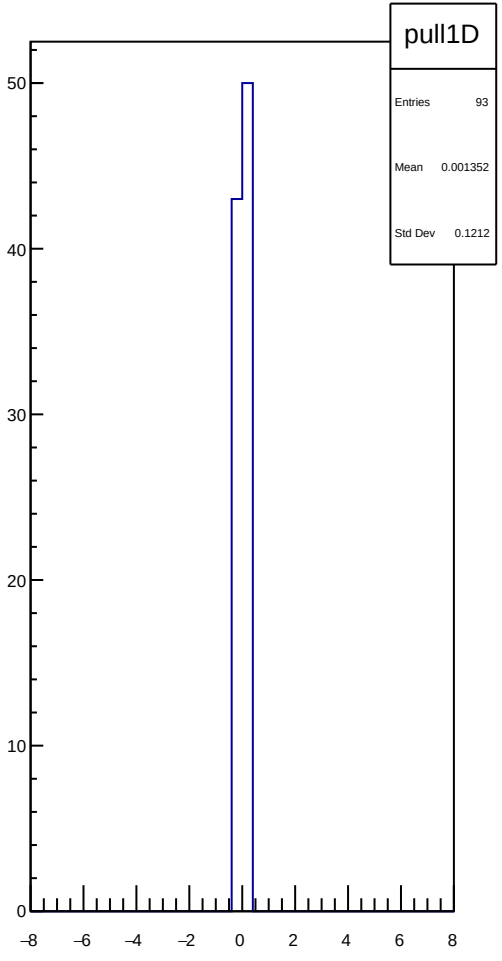

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.427 / 92
p0 −13.53 ± 2.348
pull
Entries 93
Mean −663.5
Std Dev 0
pull1D
Entries 93
Mean −0.002363
Std Dev 0.1239

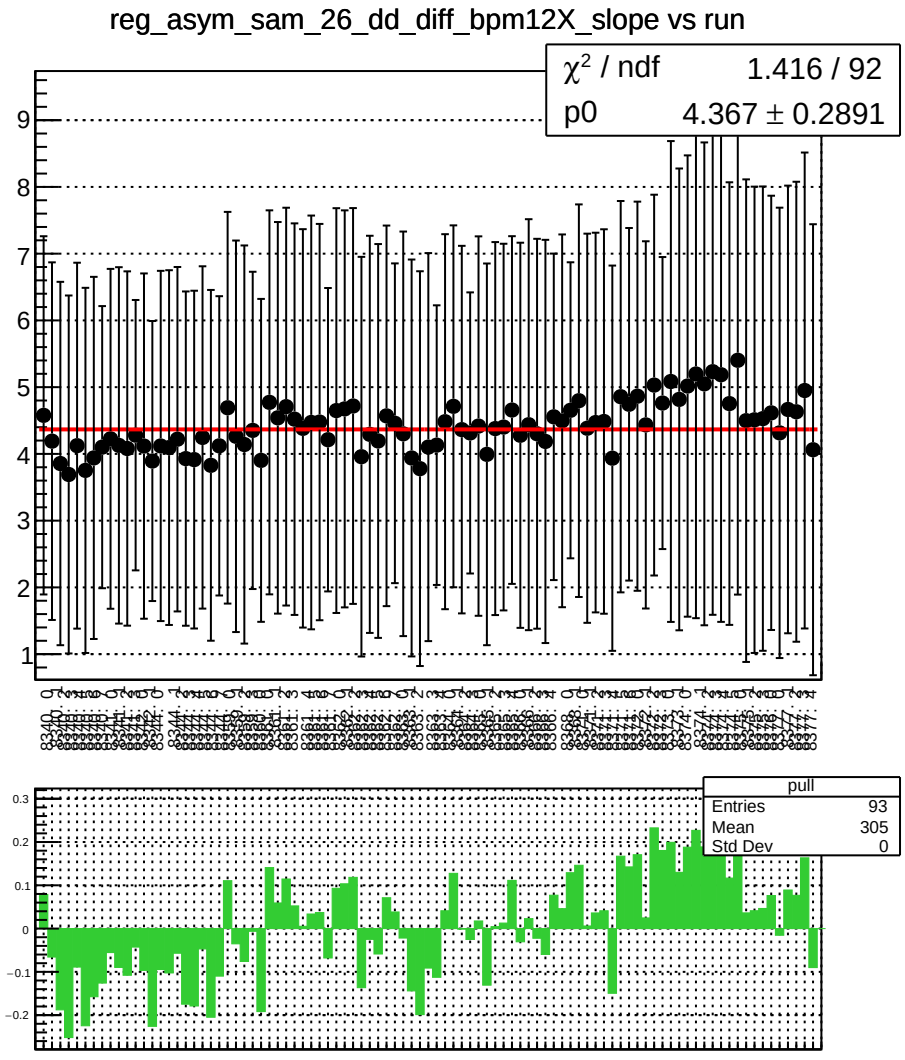

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.319 / 92
p0 −121.5 ± 4.671
pull
Entries 93
Mean −305.2
Std Dev 0
pull1D
Entries 93
Mean −0.001058
Std Dev 0.1191

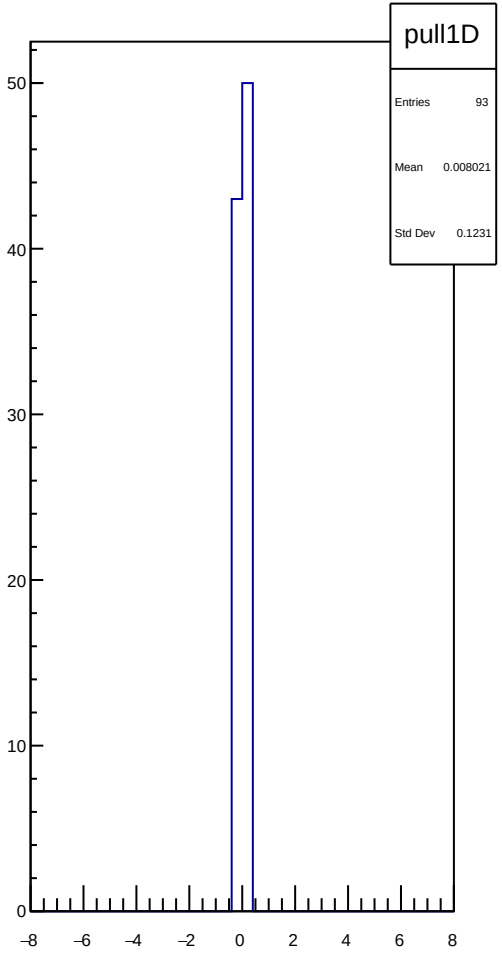

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 0.9299 / 92
p0 −119.8 ± 2.698
pull
Entries 93
Mean −564.7
Std Dev 0

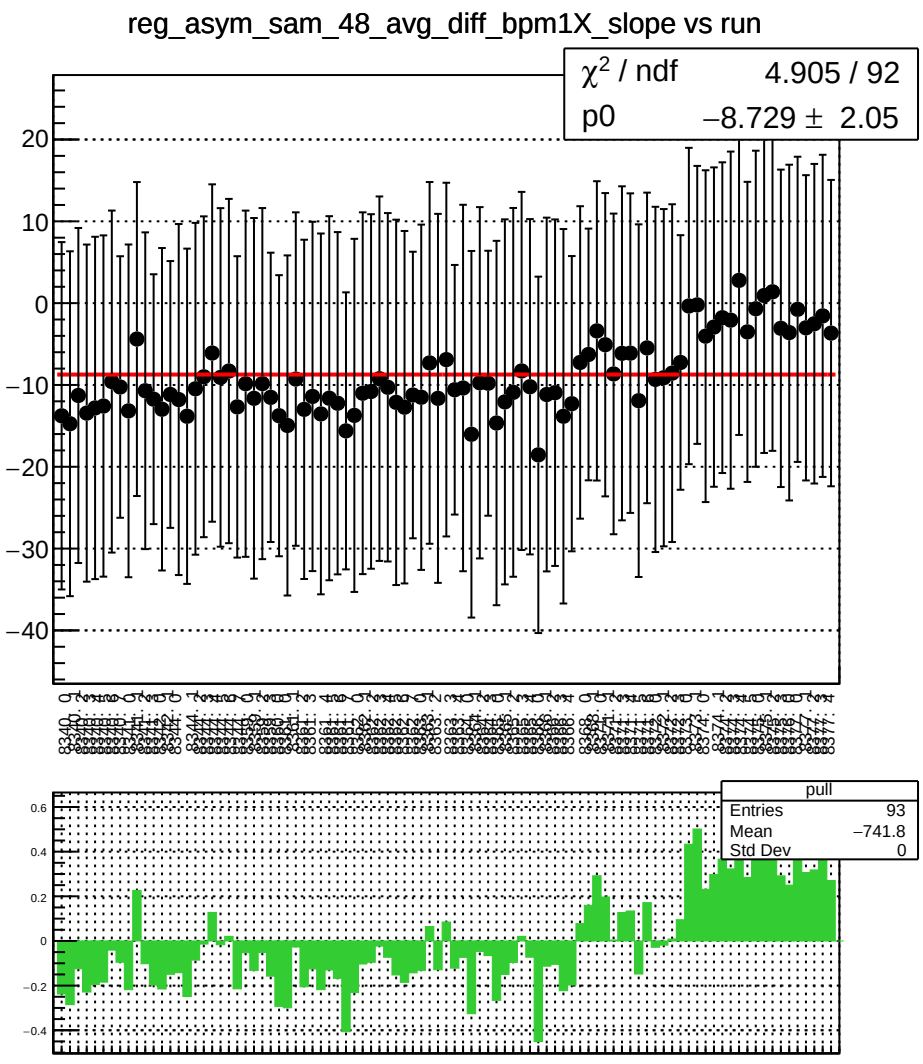

pull1D
Entries 93
Mean 0.001453
Std Dev 0.09999

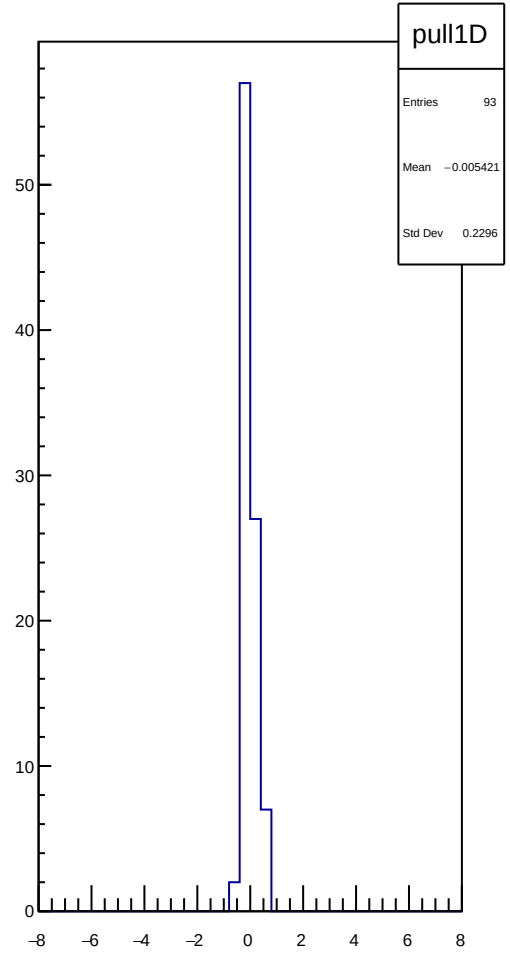

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.367 / 92
p0 −31.85 ± 4.824
pull
Entries 93
Mean −193.7
Std Dev 0

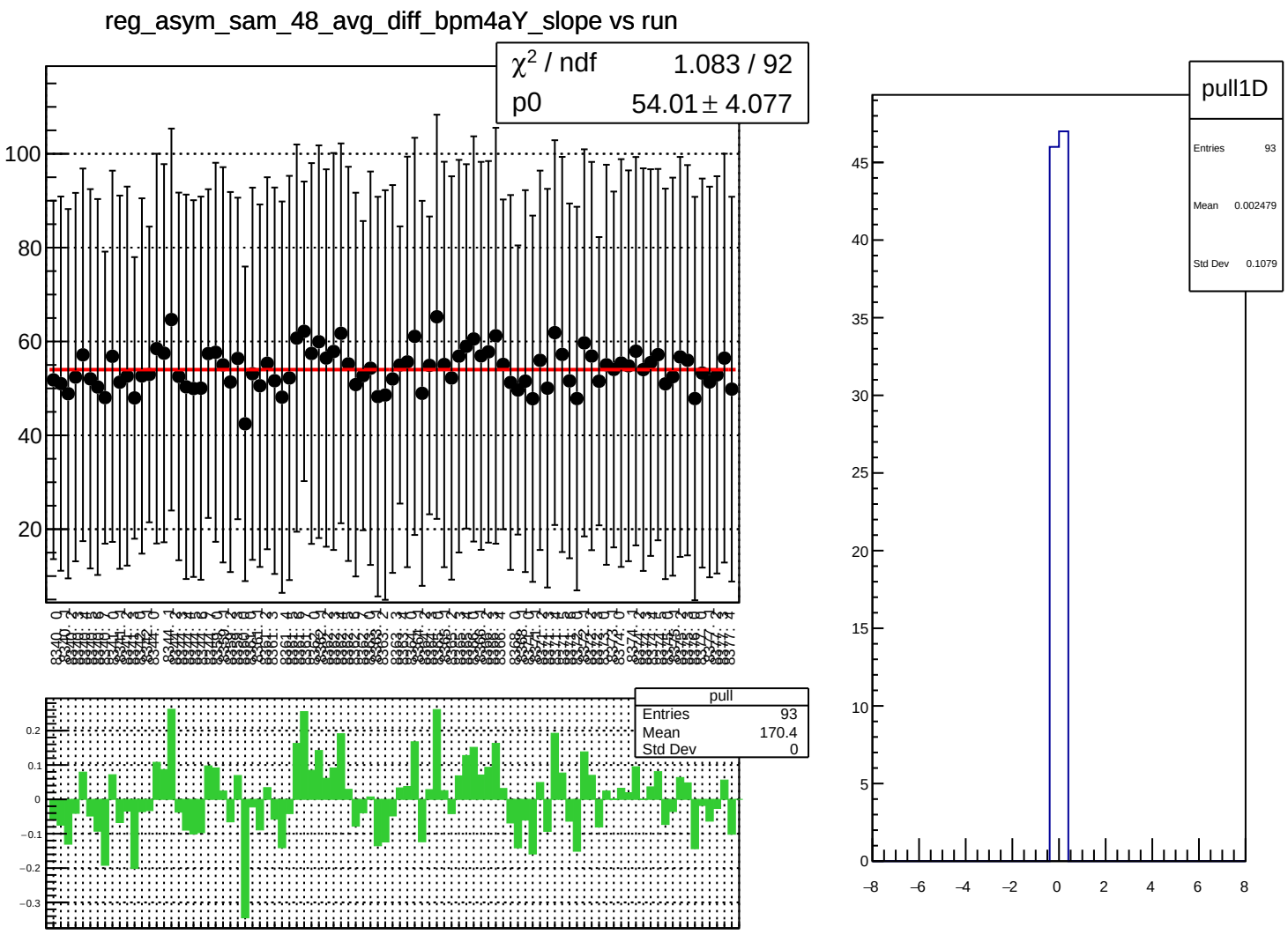

pull1D
Entries 93
Mean 0.001352
Std Dev 0.1212

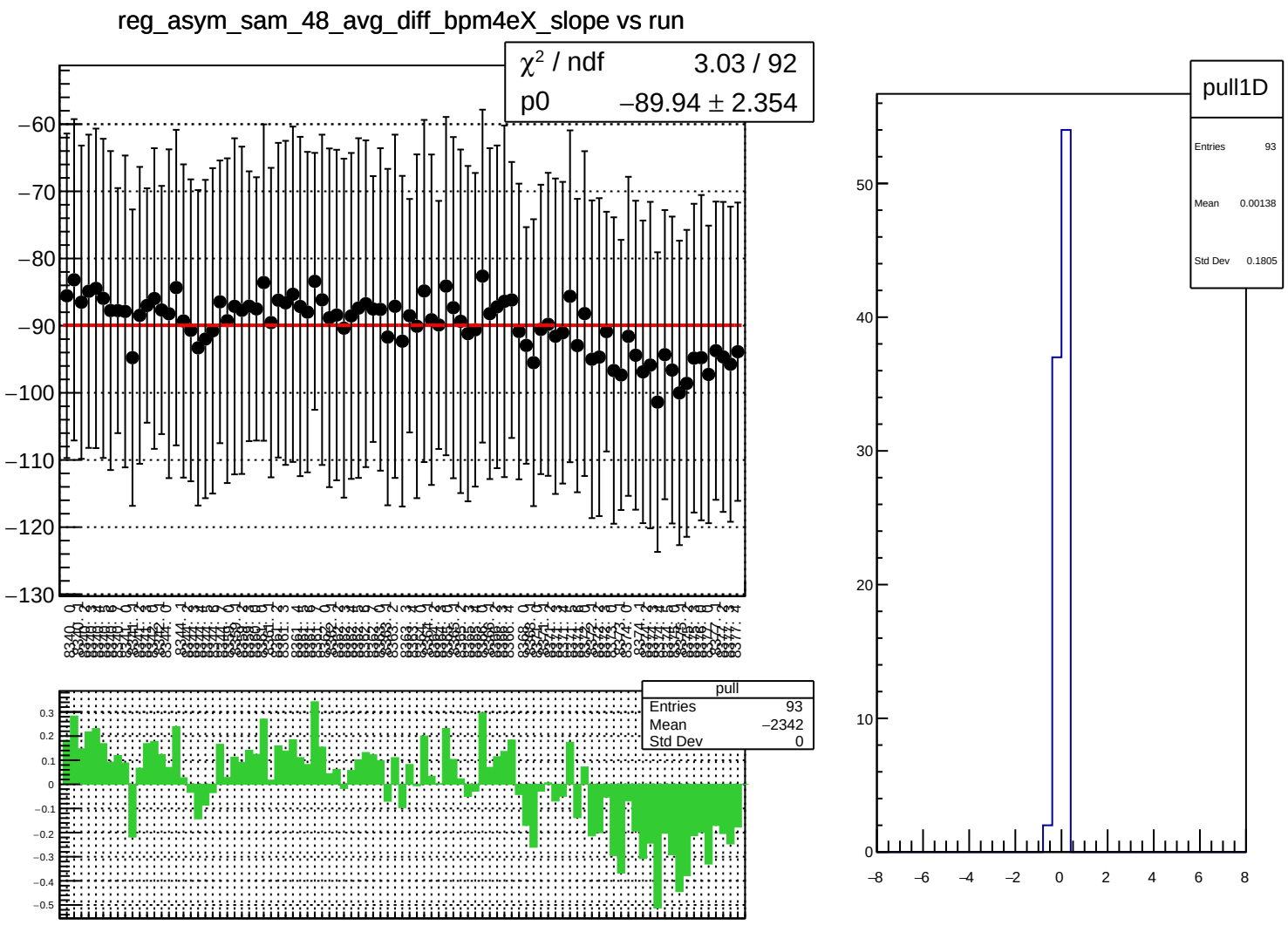

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 1.416 / 92
p0 4.367 ± 0.2891
pull
Entries 93
Mean 305
Std Dev 0

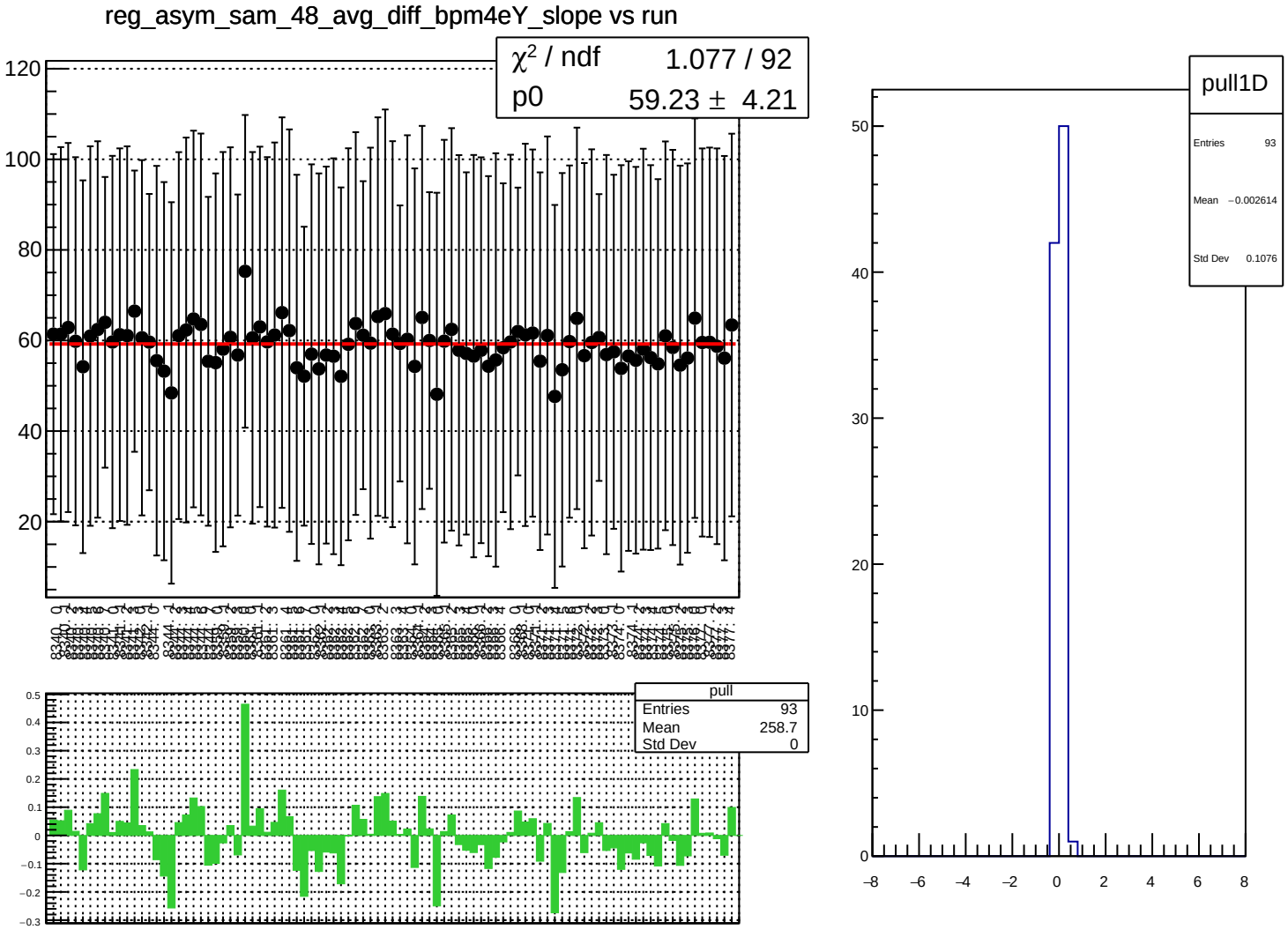

pull1D
Entries 93
Mean 0.008021
Std Dev 0.1231

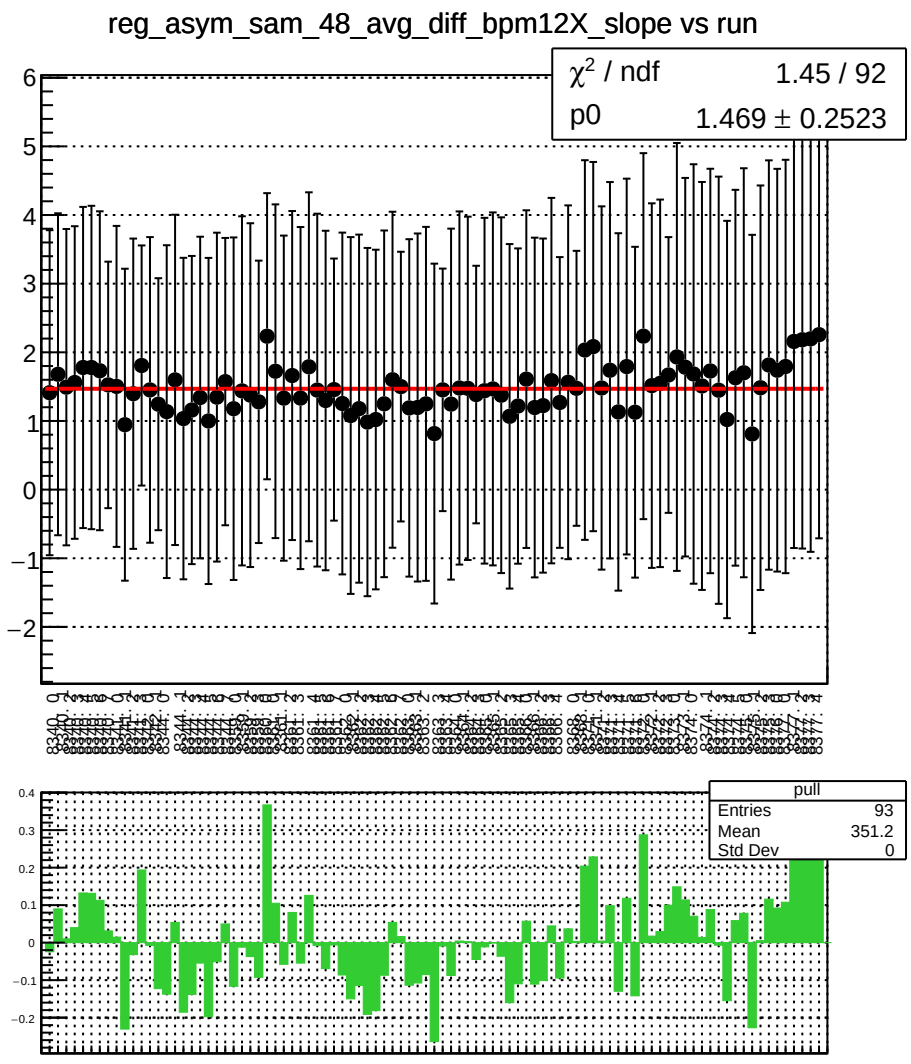

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.905 / 92
p0 −8.729 ± 2.05
pull
Entries 93
Mean −741.8
Std Dev 0

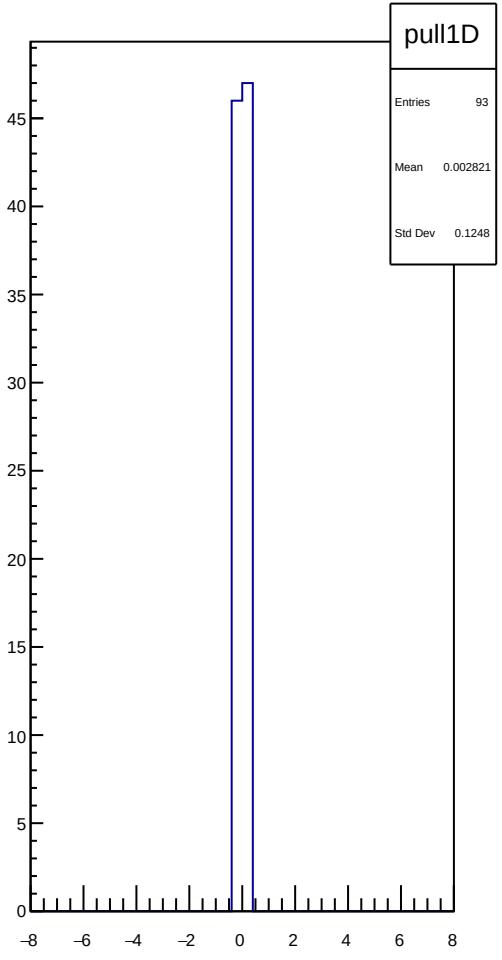

pull1D
Entries 93
Mean −0.005421
Std Dev 0.2296

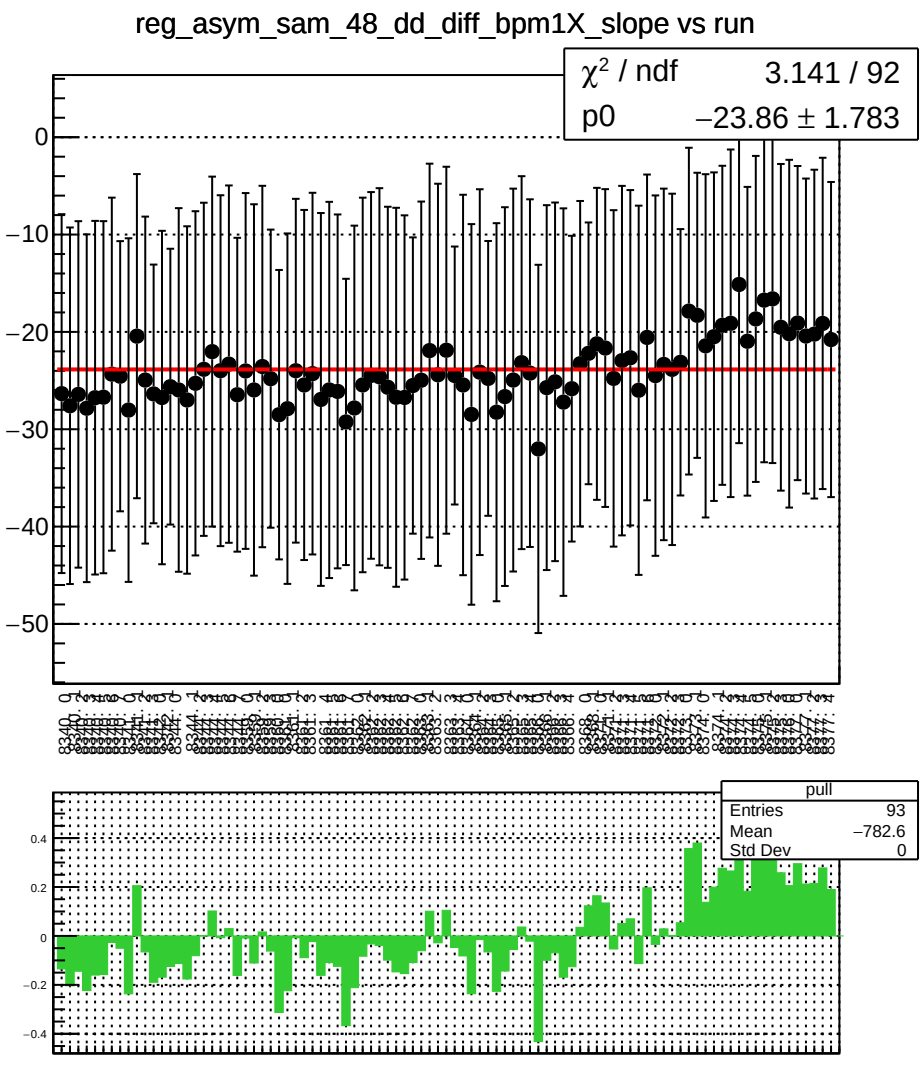

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.083 / 92
p0 54.01 ± 4.077
pull
Entries 93
Mean 170.4
Std Dev 0
pull1D
Entries 93
Mean 0.002479
Std Dev 0.1079

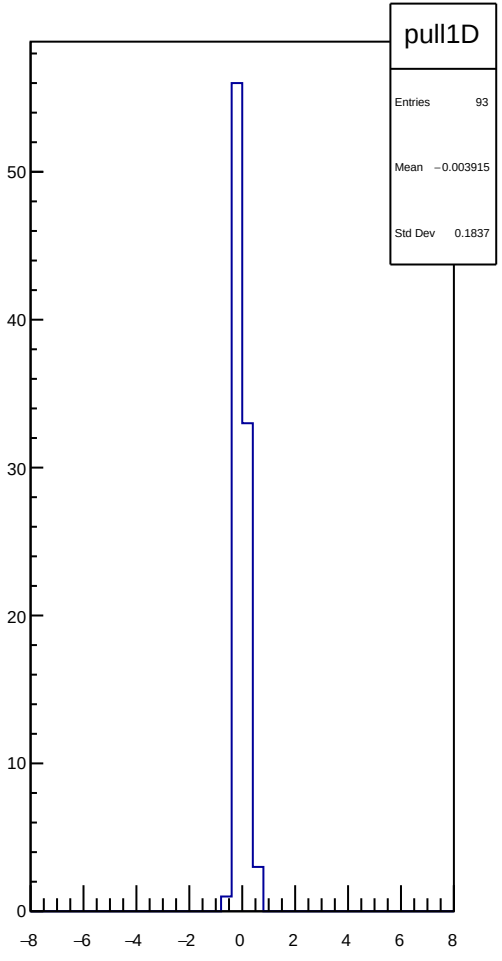

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.03 / 92
p0 −89.94 ± 2.354
pull
Entries 93
Mean −2342
Std Dev 0
pull1D
Entries 93
Mean 0.00138
Std Dev 0.1805

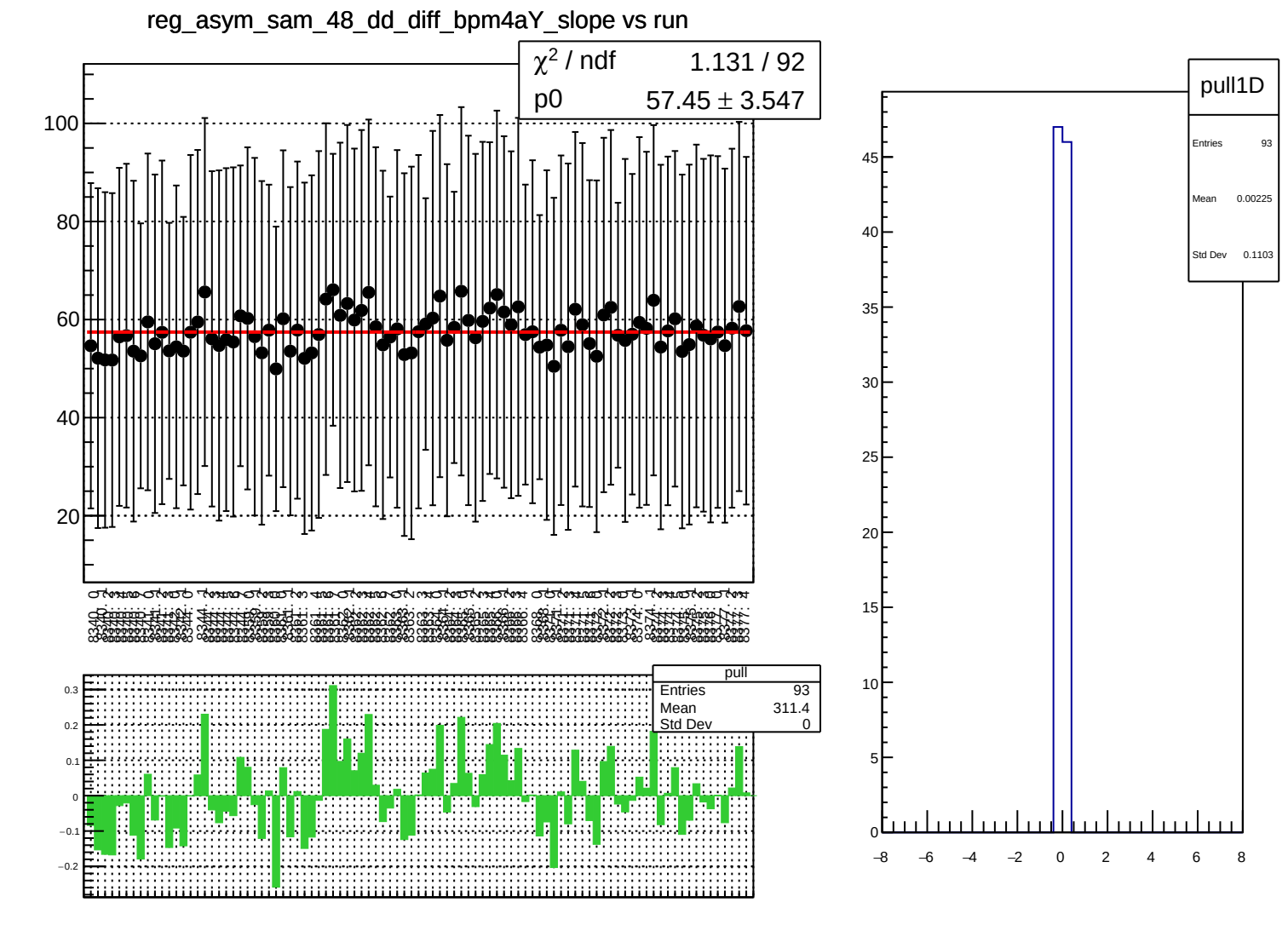

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.077 / 92
p0 59.23 ± 4.21
120
100
80
60
40
20
pull
Entries 93
Mean 258.7
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 93
Mean −0.002614
Std Dev 0.1076
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

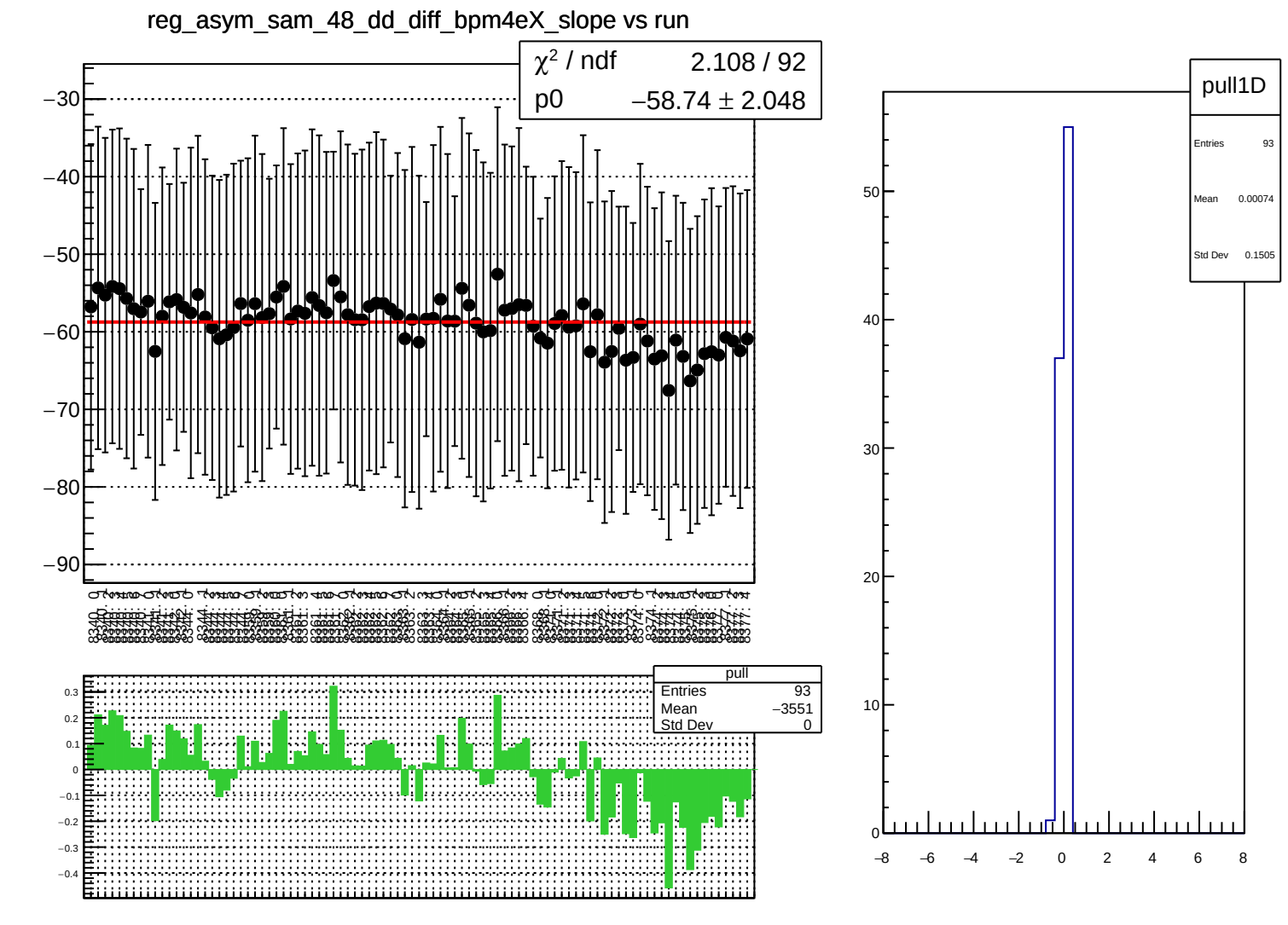

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 1.45 / 92
p0 1.469 ± 0.2523
pull
Entries 93
Mean 351.2
Std Dev 0

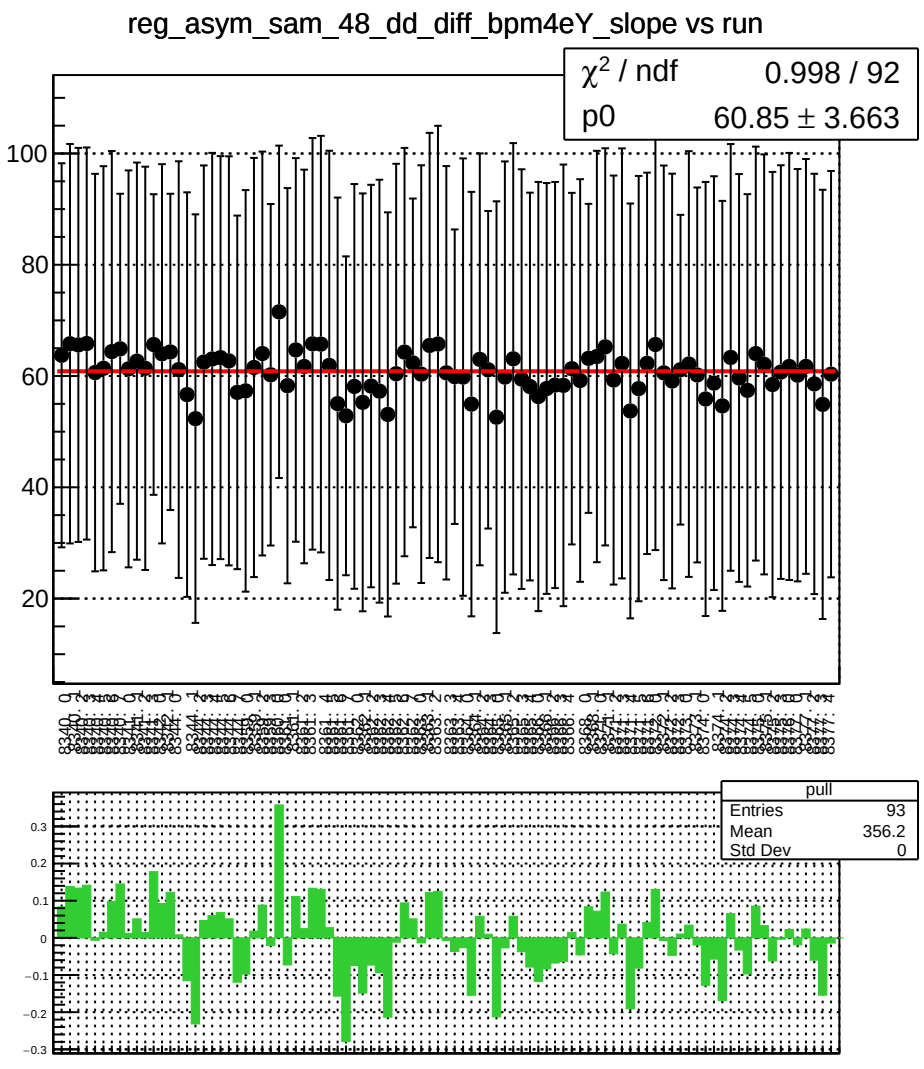

pull1D
Entries 93
Mean 0.002821
Std Dev 0.1248

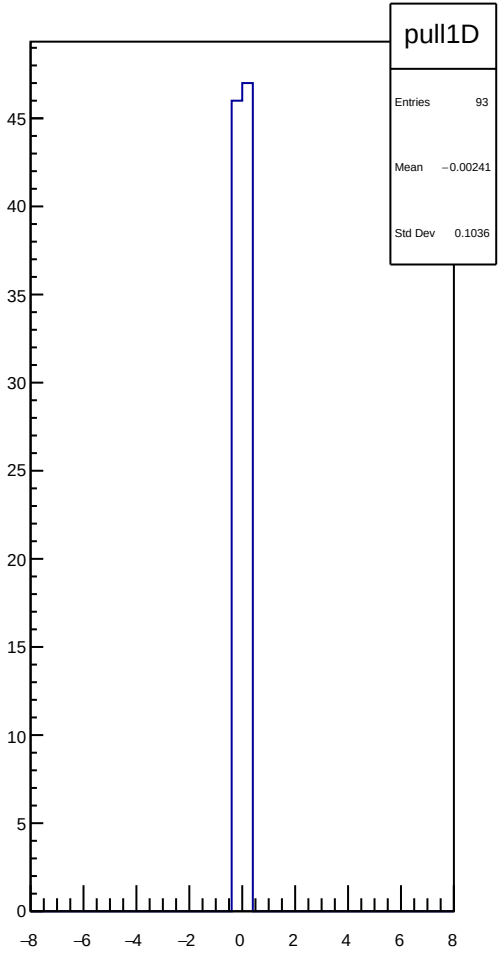

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.141 / 92
p0 −23.86 ± 1.783
0
−10
−20
−30
−40
−50
pull
Entries 93
Mean −782.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4

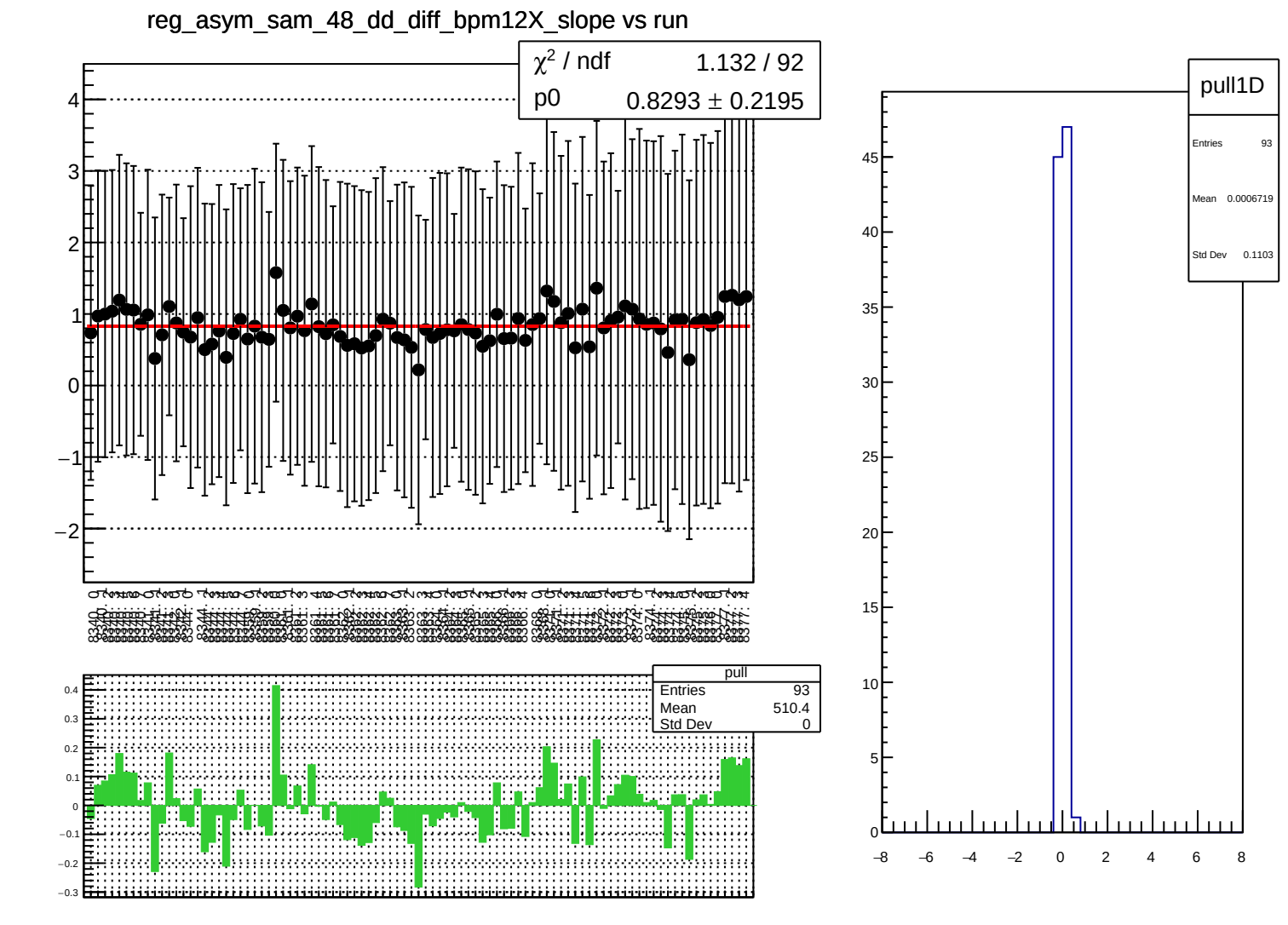

pull1D
Entries 93
Mean −0.003915
Std Dev 0.1837
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

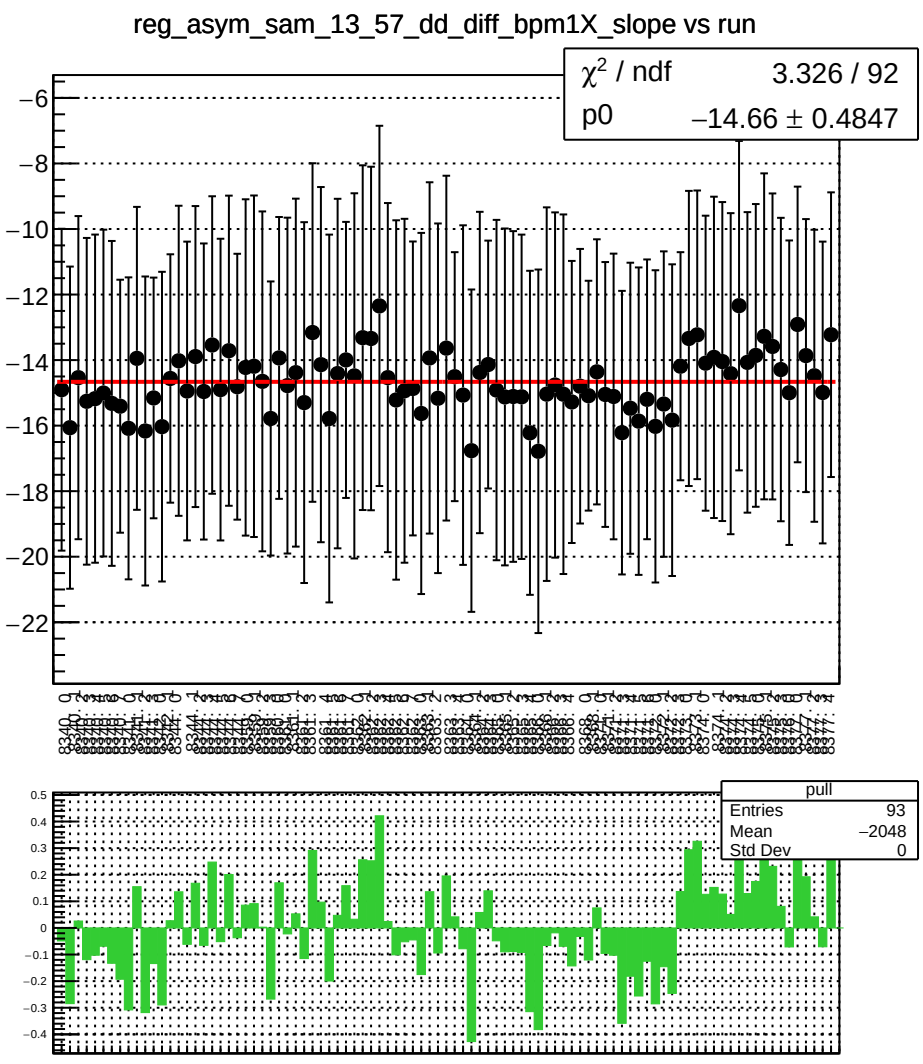

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.131 / 92
p0 57.45 ± 3.547
pull
Entries 93
Mean 311.4
Std Dev 0
pull1D
Entries 93
Mean 0.00225
Std Dev 0.1103

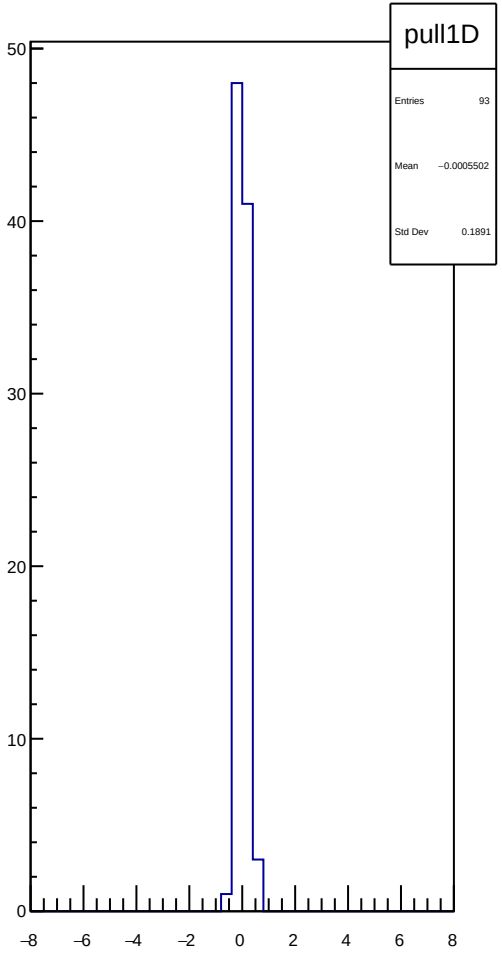

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.108 / 92
p0 −58.74 ± 2.048
pull
Entries 93
Mean −3551
Std Dev 0
pull1D
Entries 93
Mean 0.00074
Std Dev 0.1505

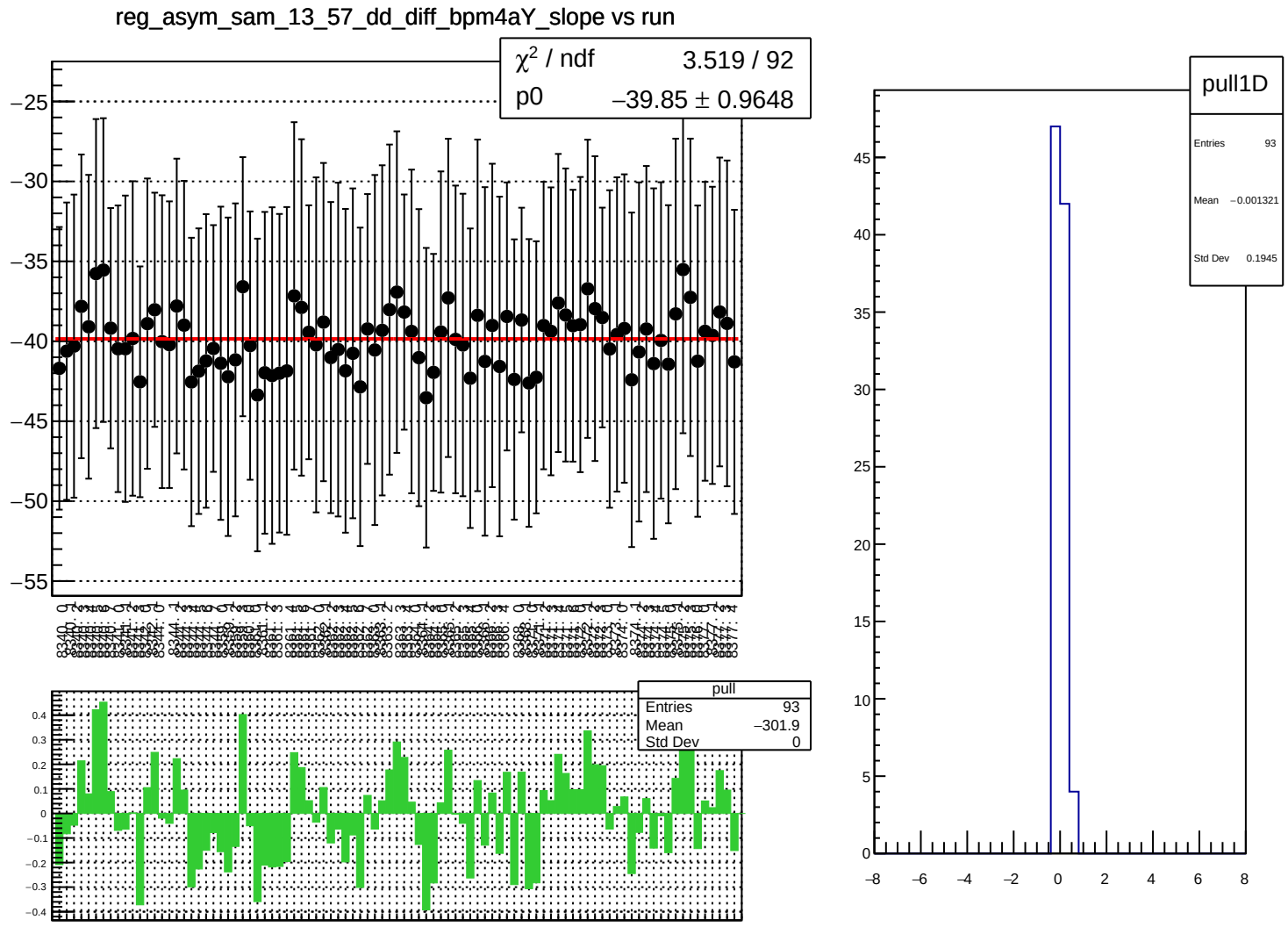

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.998 / 92
p0 60.85 ± 3.663
pull
Entries 93
Mean 356.2
Std Dev 0

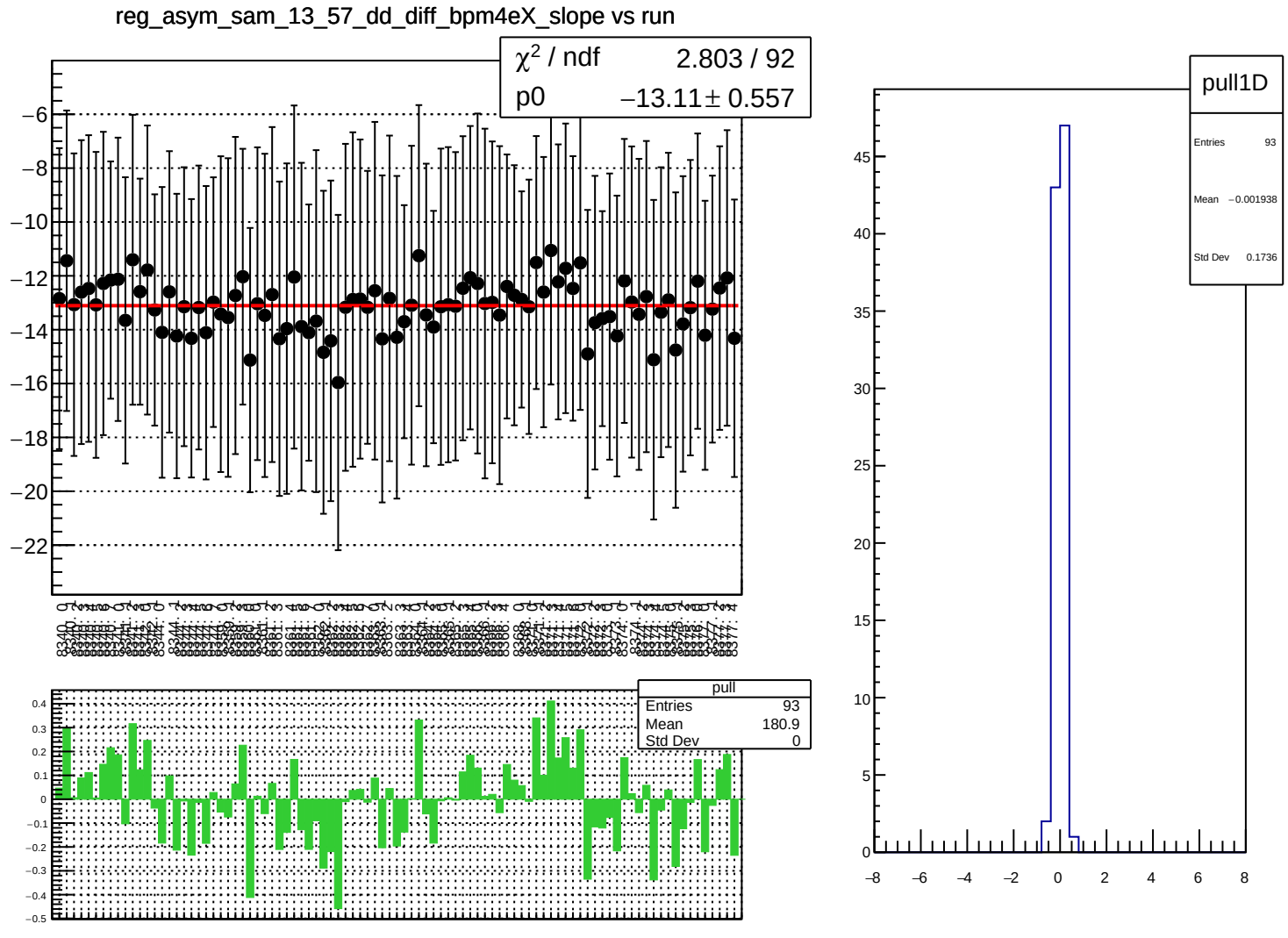

pull1D
Entries 93
Mean −0.00241
Std Dev 0.1036

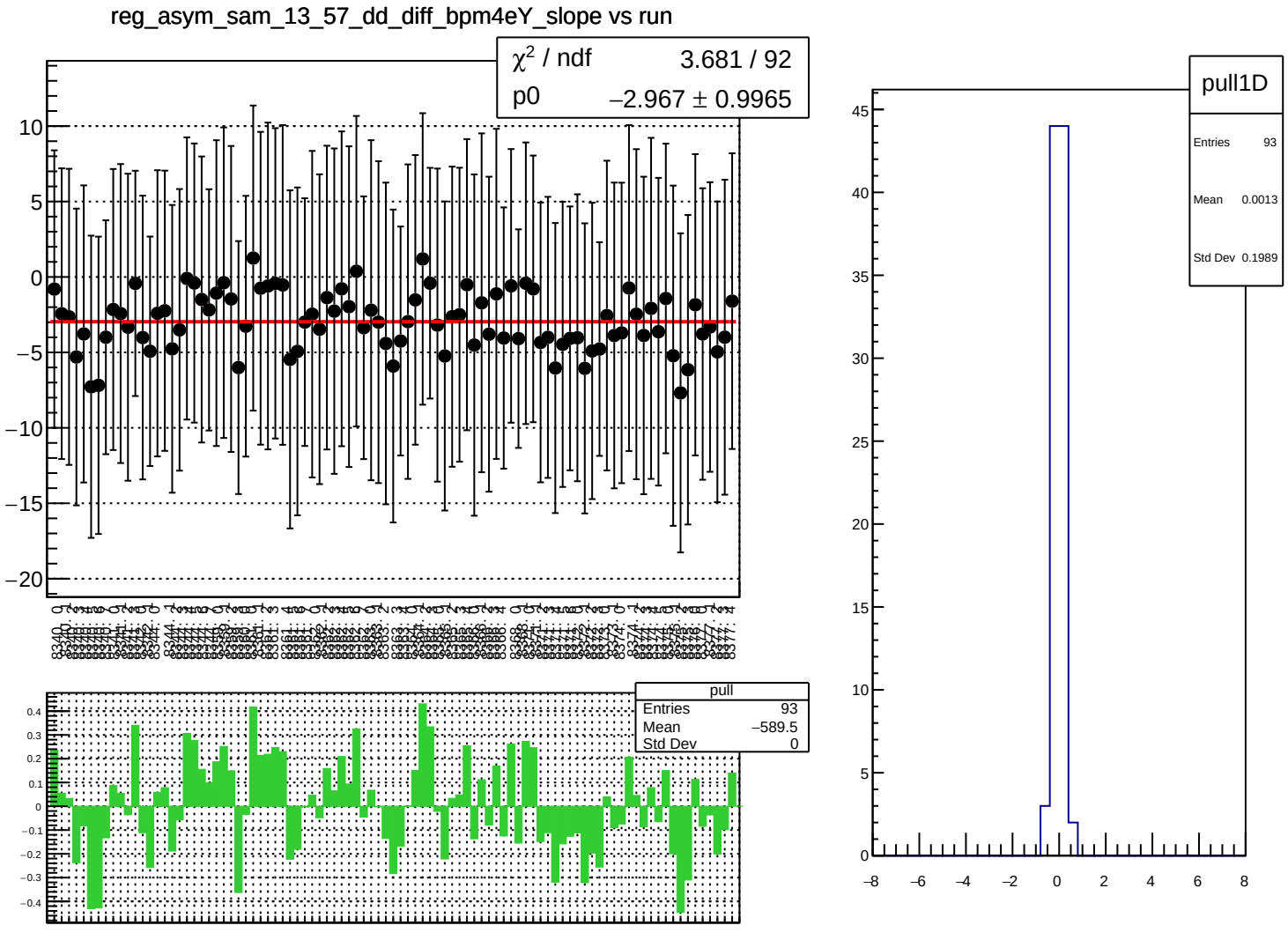

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.132 / 92
p0 0.8293 ± 0.2195
pull
Entries 93
Mean 510.4
Std Dev 0
pull1D
Entries 93
Mean 0.0006719
Std Dev 0.1103

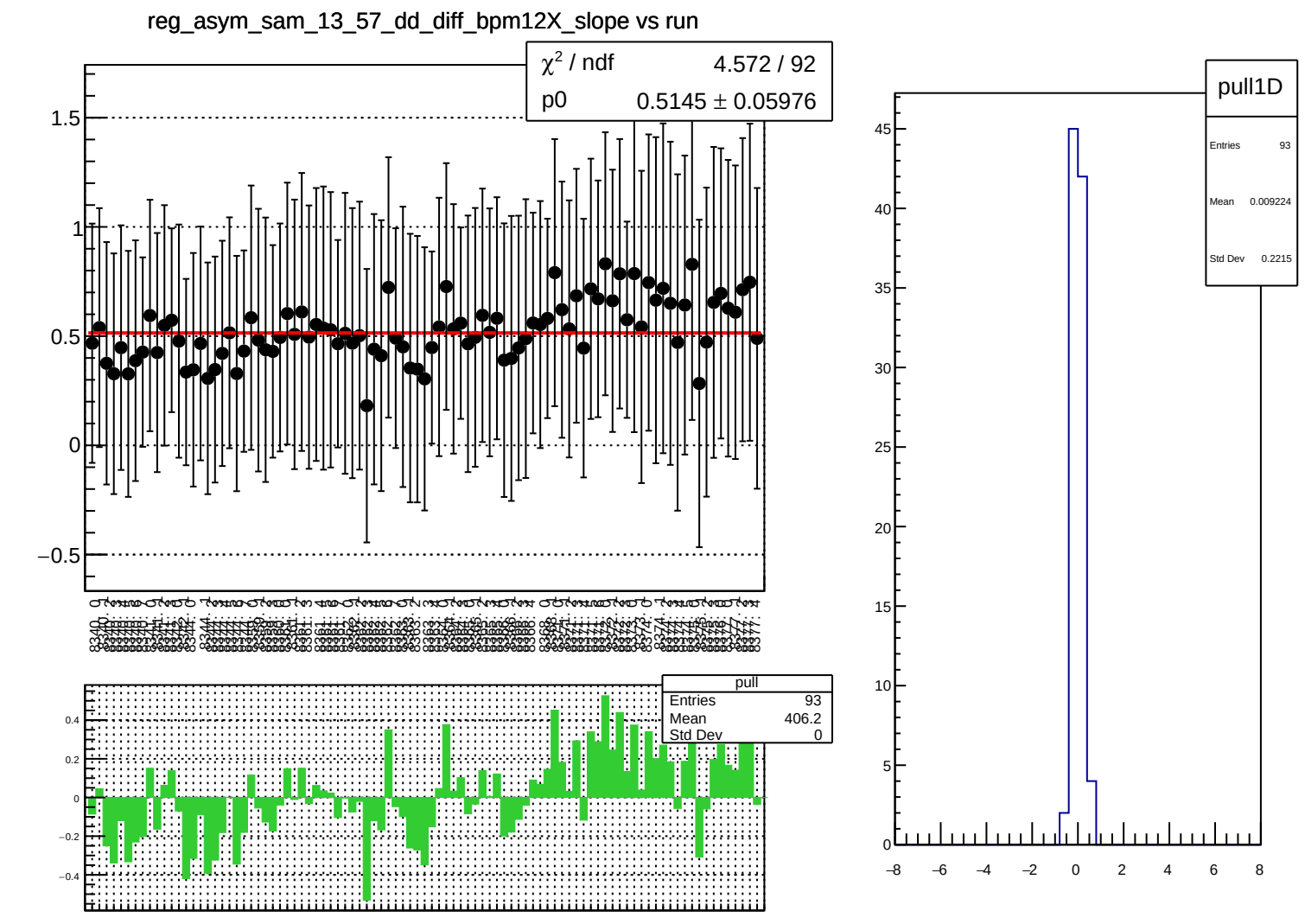

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 3.326 / 92
p0 −14.66 ± 0.4847
pull
Entries 93
Mean −2048
Std Dev 0

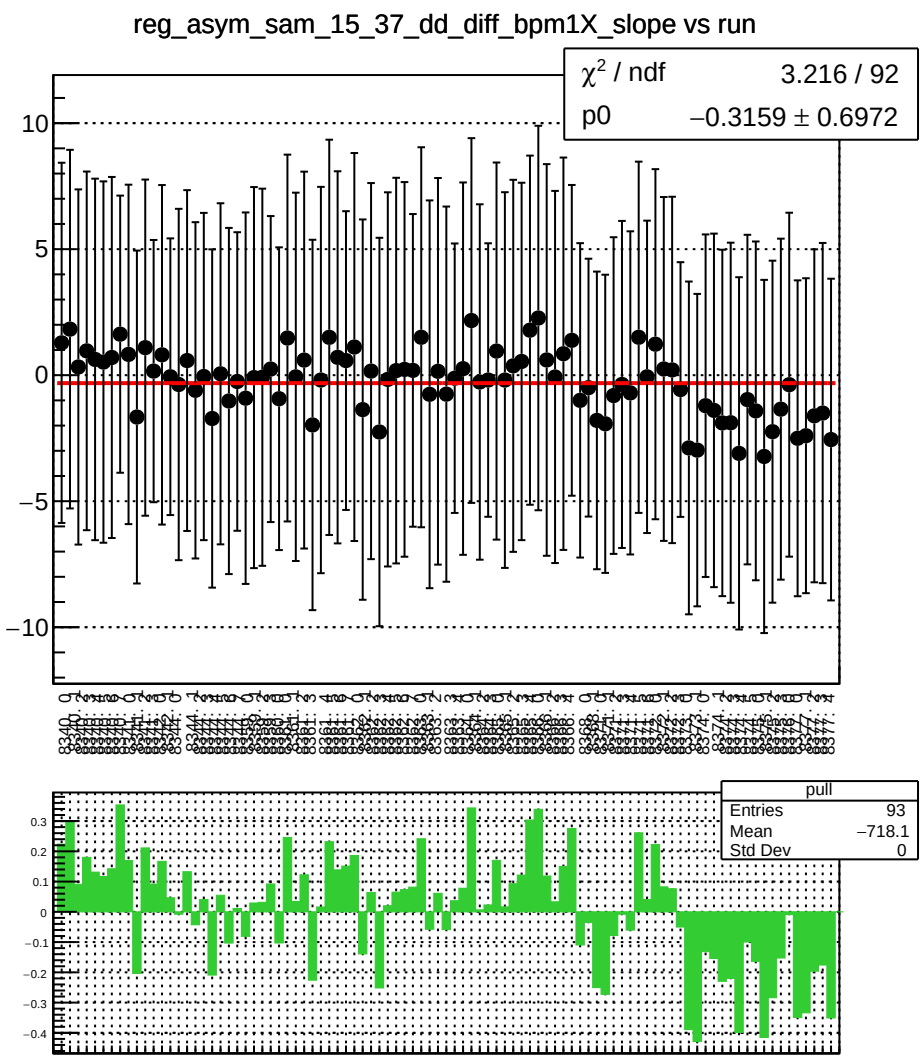

pull1D
Entries 93
Mean −0.0005502
Std Dev 0.1891

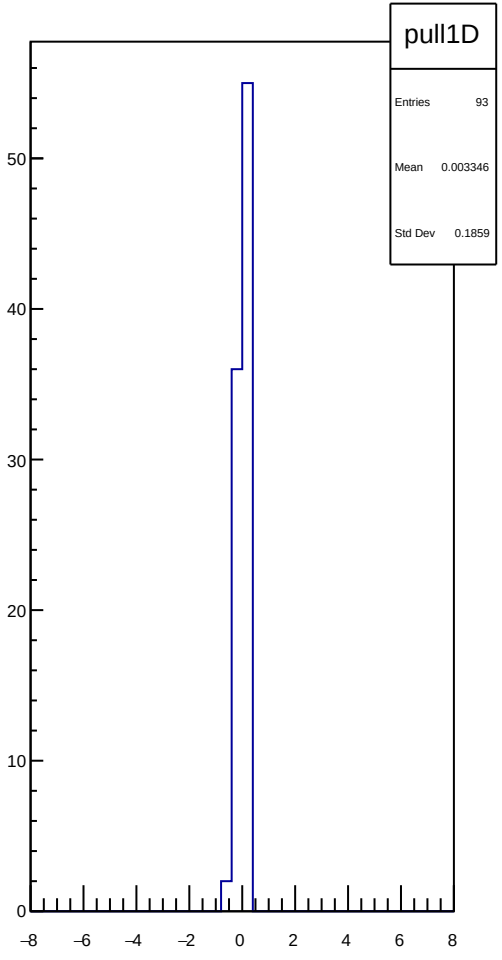

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.519 / 92
p0 −39.85 ± 0.9648
−25
−30
−35
−40
−45
−50
−55
pull
Entries 93
Mean −301.9
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 93
Mean −0.001321
Std Dev 0.1945
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

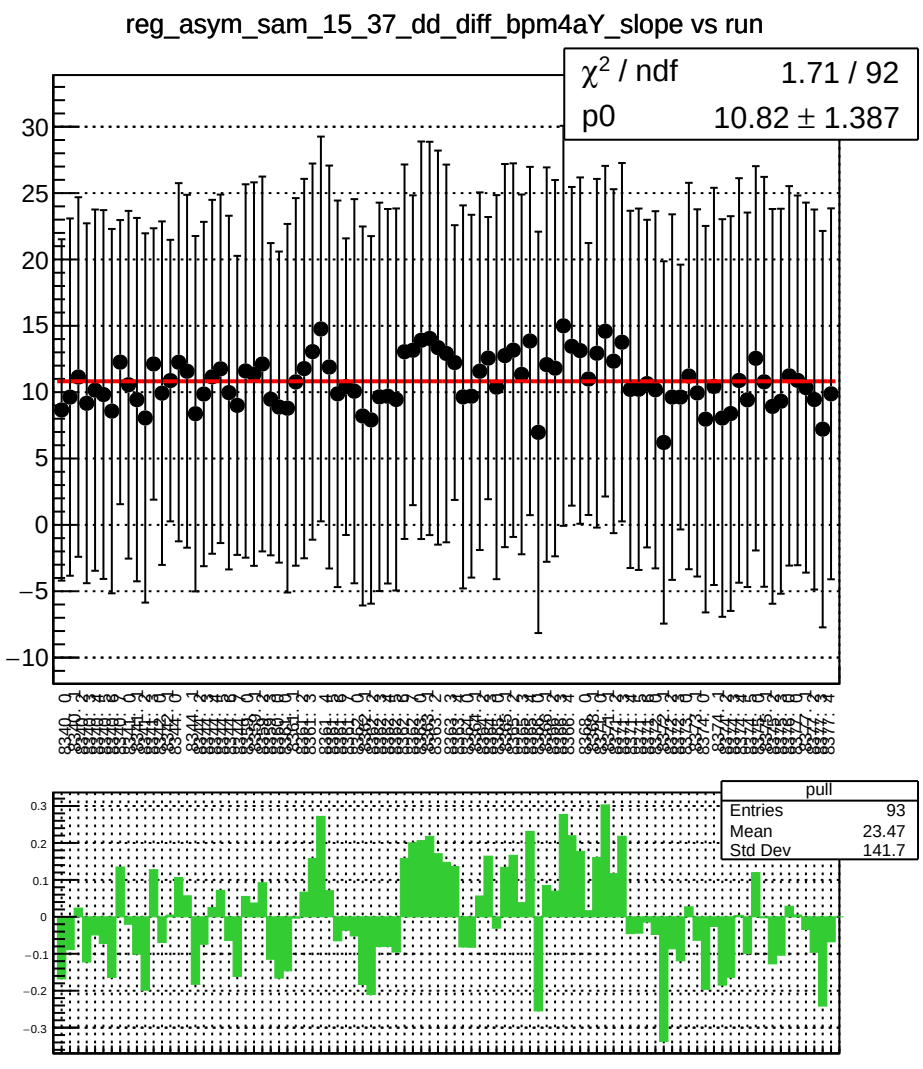

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.803 / 92
p0 −13.11 ± 0.557
pull
Entries 93
Mean 180.9
Std Dev 0
pull1D
Entries 93
Mean −0.001938
Std Dev 0.1736

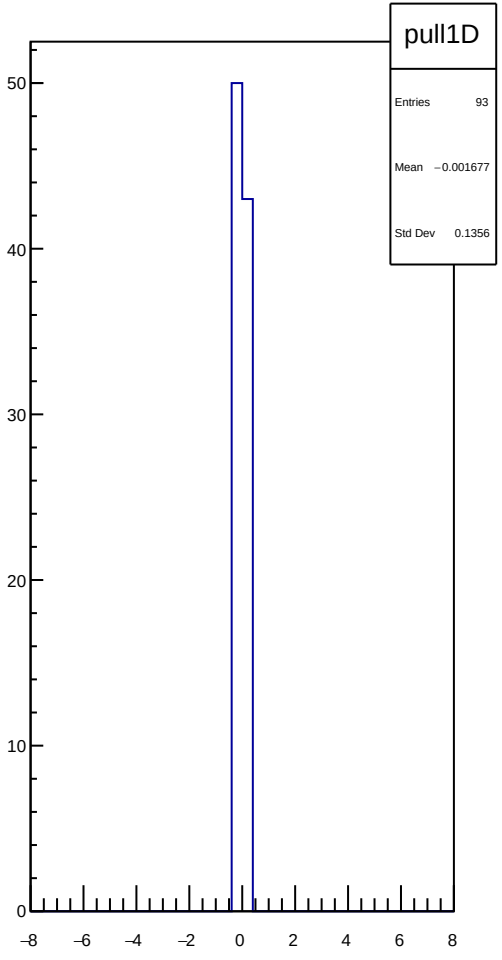

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.681 / 92
p0 −2.967 ± 0.9965
pull
Entries 93
Mean −589.5
Std Dev 0
pull1D
Entries 93
Mean 0.0013
Std Dev 0.1989

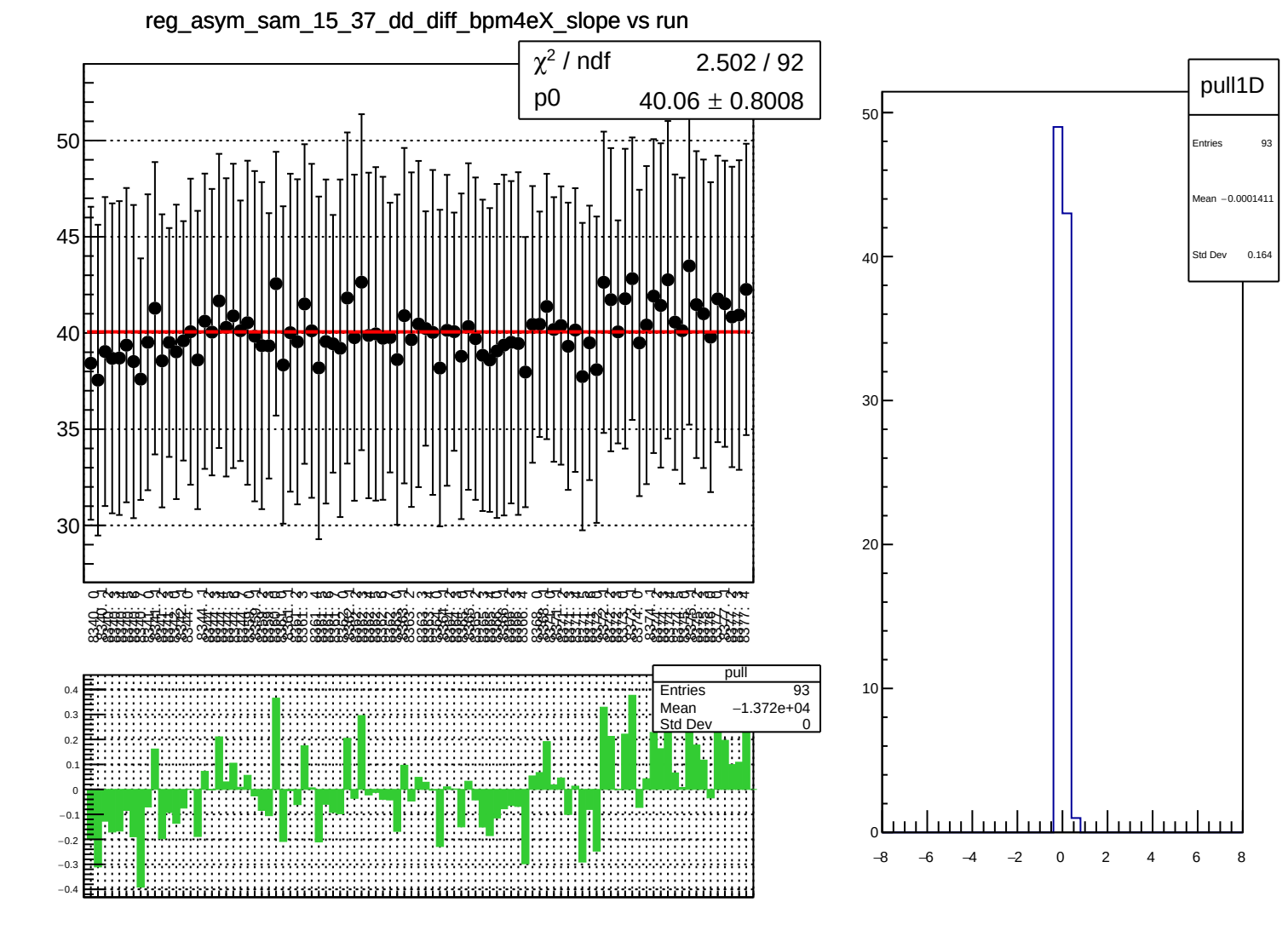

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 4.572 / 92
p0 0.5145 ± 0.05976
1.5
1
0.5
0
−0.5
pull
Entries 93
Mean 406.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.009224
Std Dev 0.2215
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

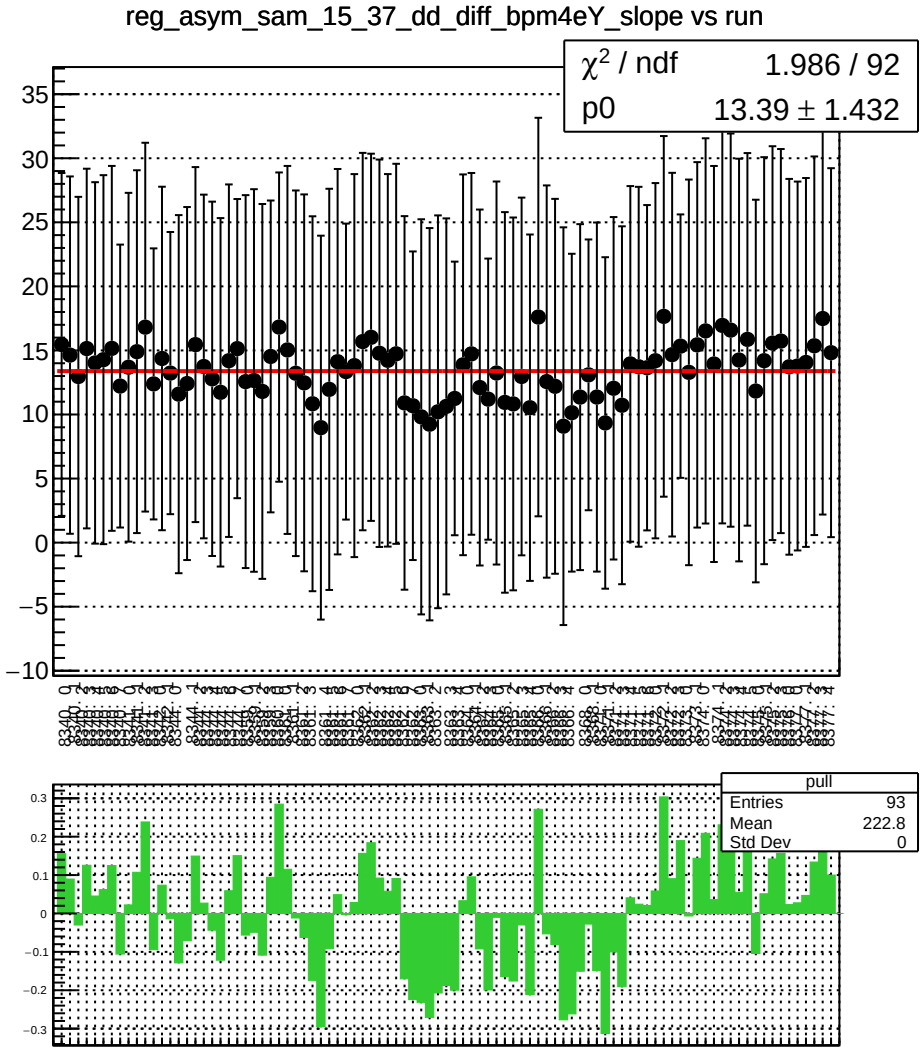

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 3.216 / 92
p0 −0.3159 ± 0.6972
10
5
0
−5
−10
pull
Entries 93
Mean −718.1
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

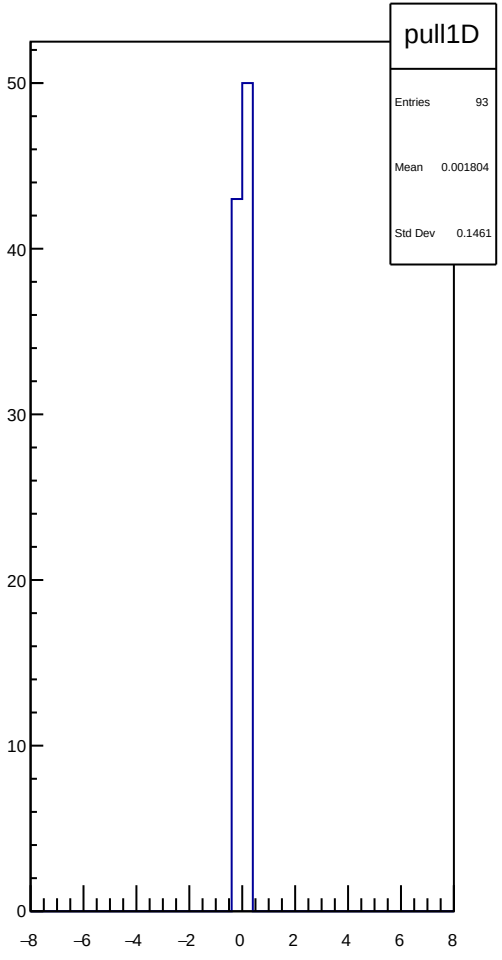

pull1D
Entries 93
Mean 0.003346
Std Dev 0.1859
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

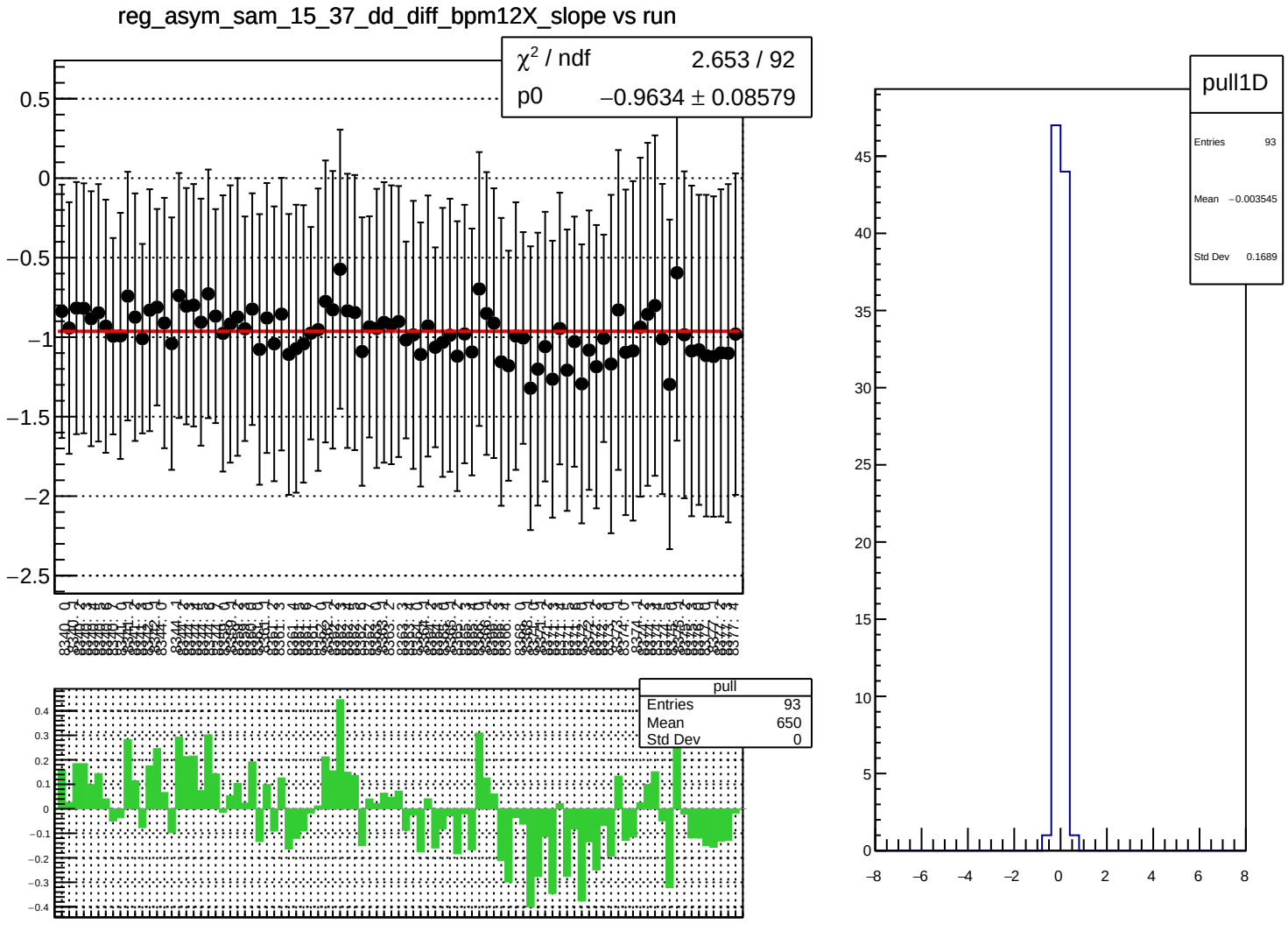

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.71 / 92
p0 10.82 ± 1.387
pull
Entries 93
Mean 23.47
Std Dev 141.7

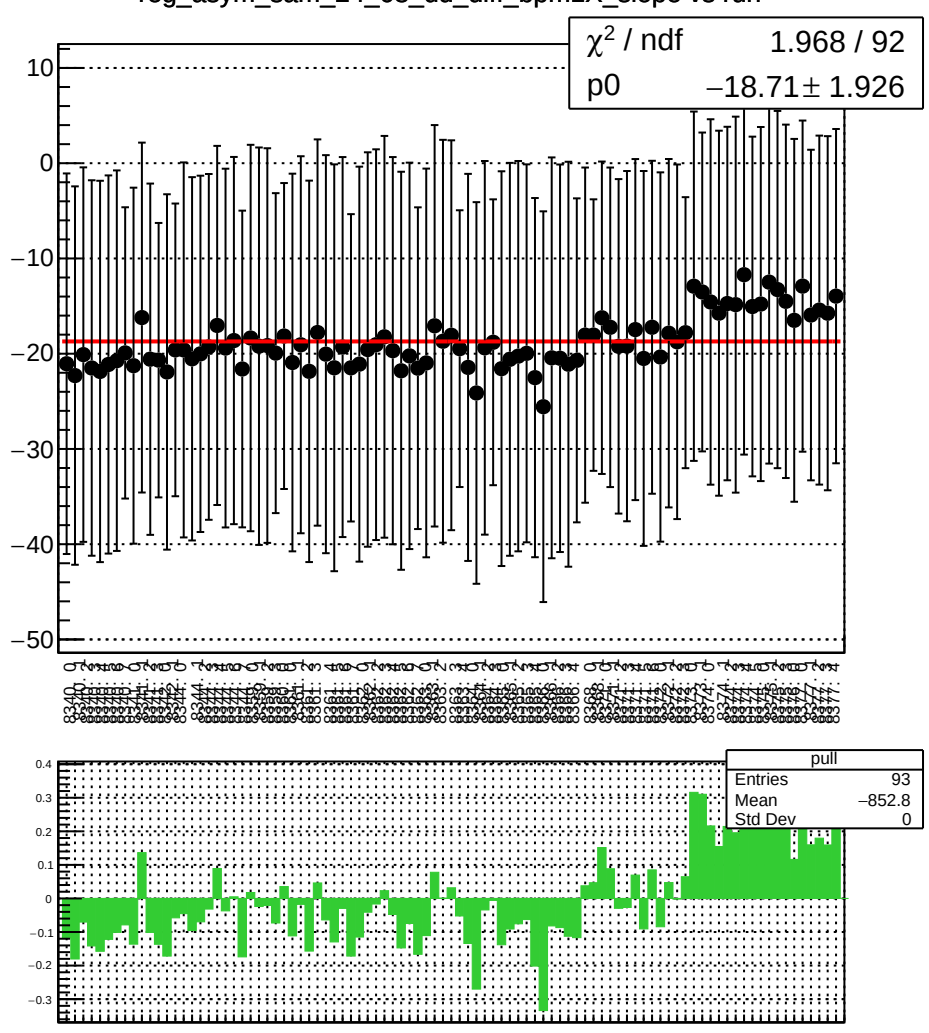

pull1D
Entries 93
Mean −0.001677
Std Dev 0.1356

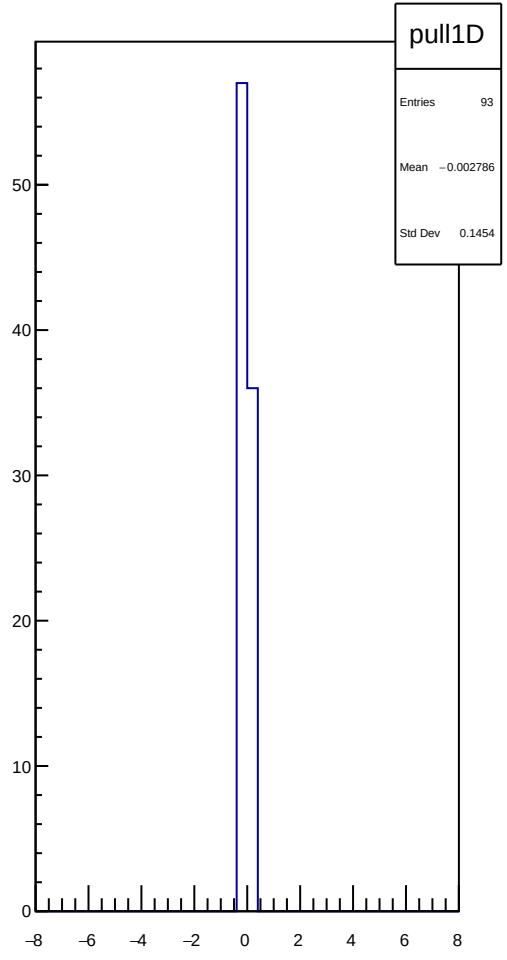

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.502 / 92
p0 40.06 ± 0.8008
pull
Entries 93
Mean −1.372e+04
Std Dev 0
pull1D
Entries 93
Mean −0.0001411
Std Dev 0.164

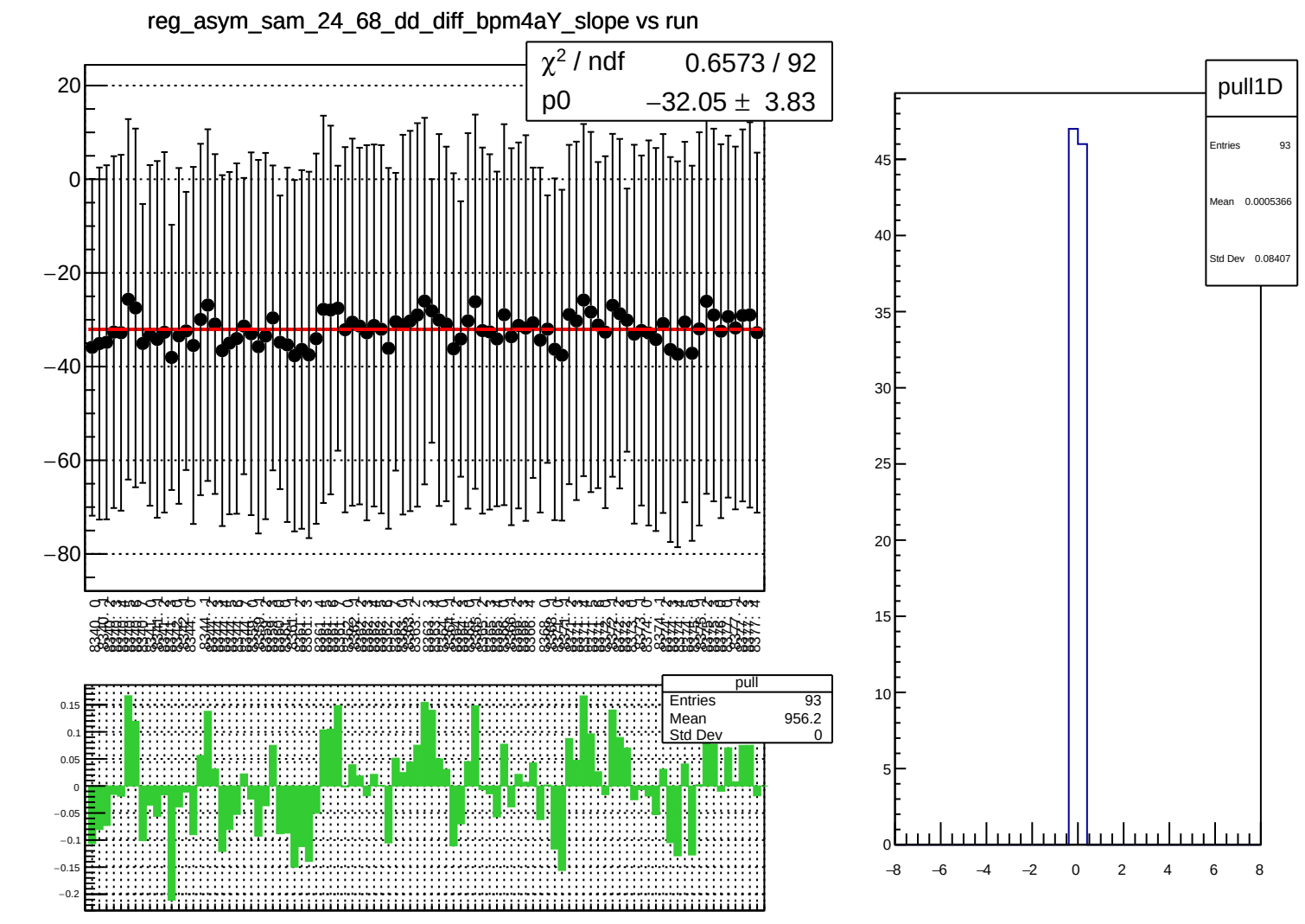

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.986 / 92
p0 13.39 ± 1.432
pull
Entries 93
Mean 222.8
Std Dev 0

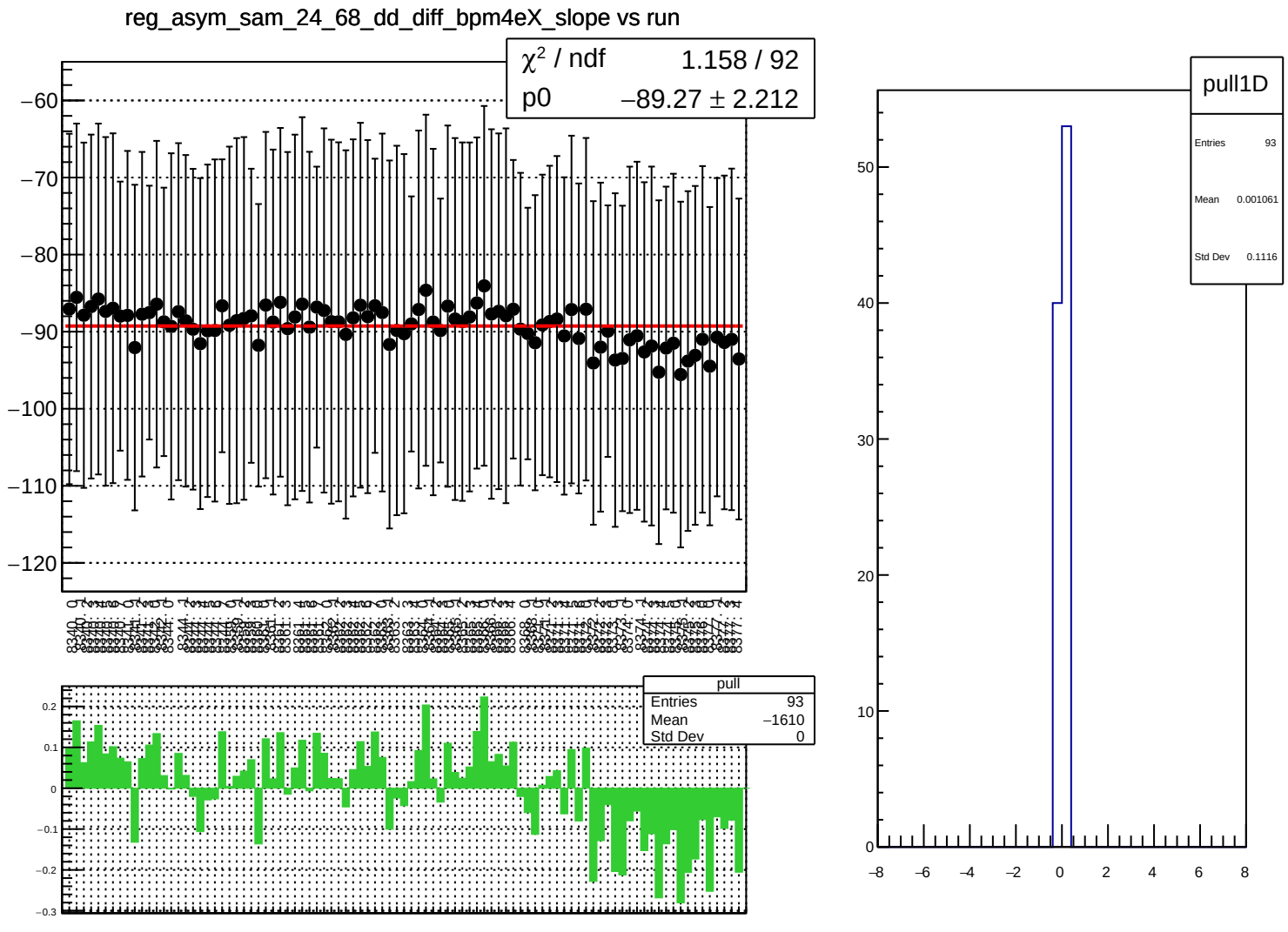

pull1D
Entries 93
Mean 0.001804
Std Dev 0.1461

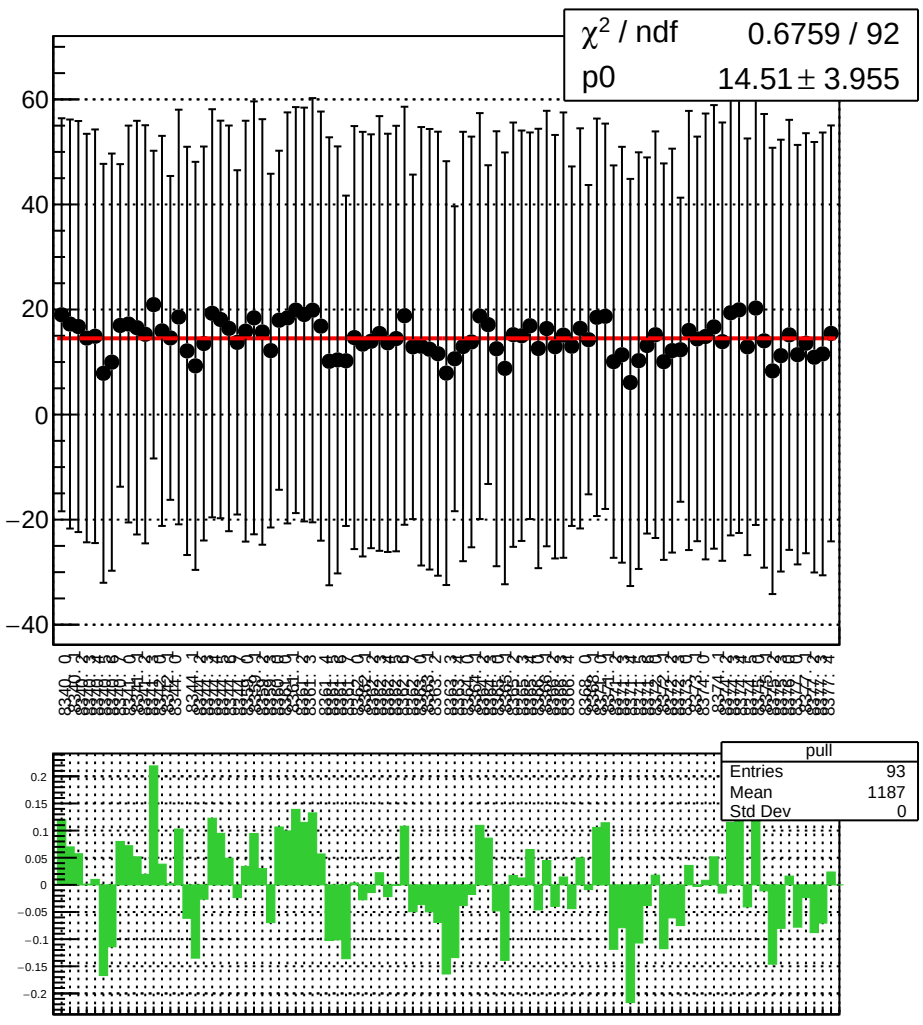

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.653 / 92
p0 −0.9634 ± 0.08579
pull
Entries 93
Mean 650
Std Dev 0
pull1D
Entries 93
Mean −0.003545
Std Dev 0.1689

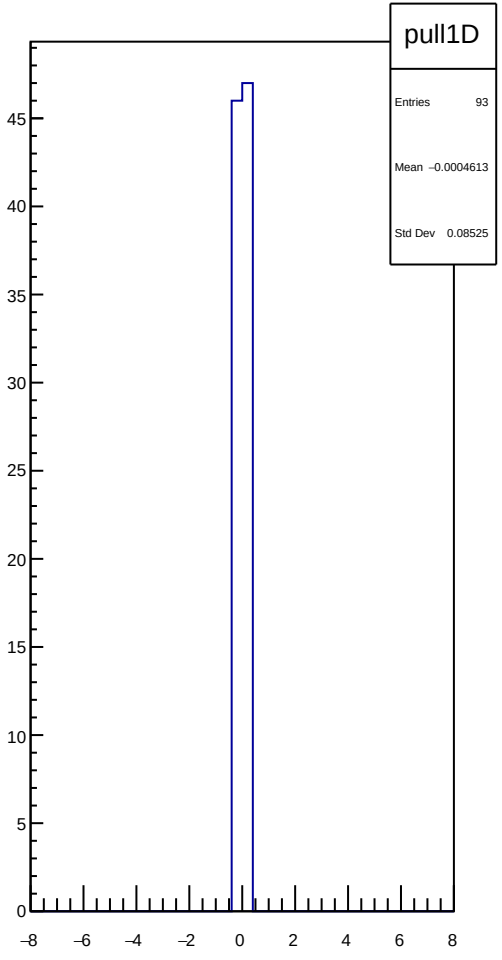

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.968 / 92
p0 −18.71± 1.926
pull
Entries 93
Mean −852.8
Std Dev 0

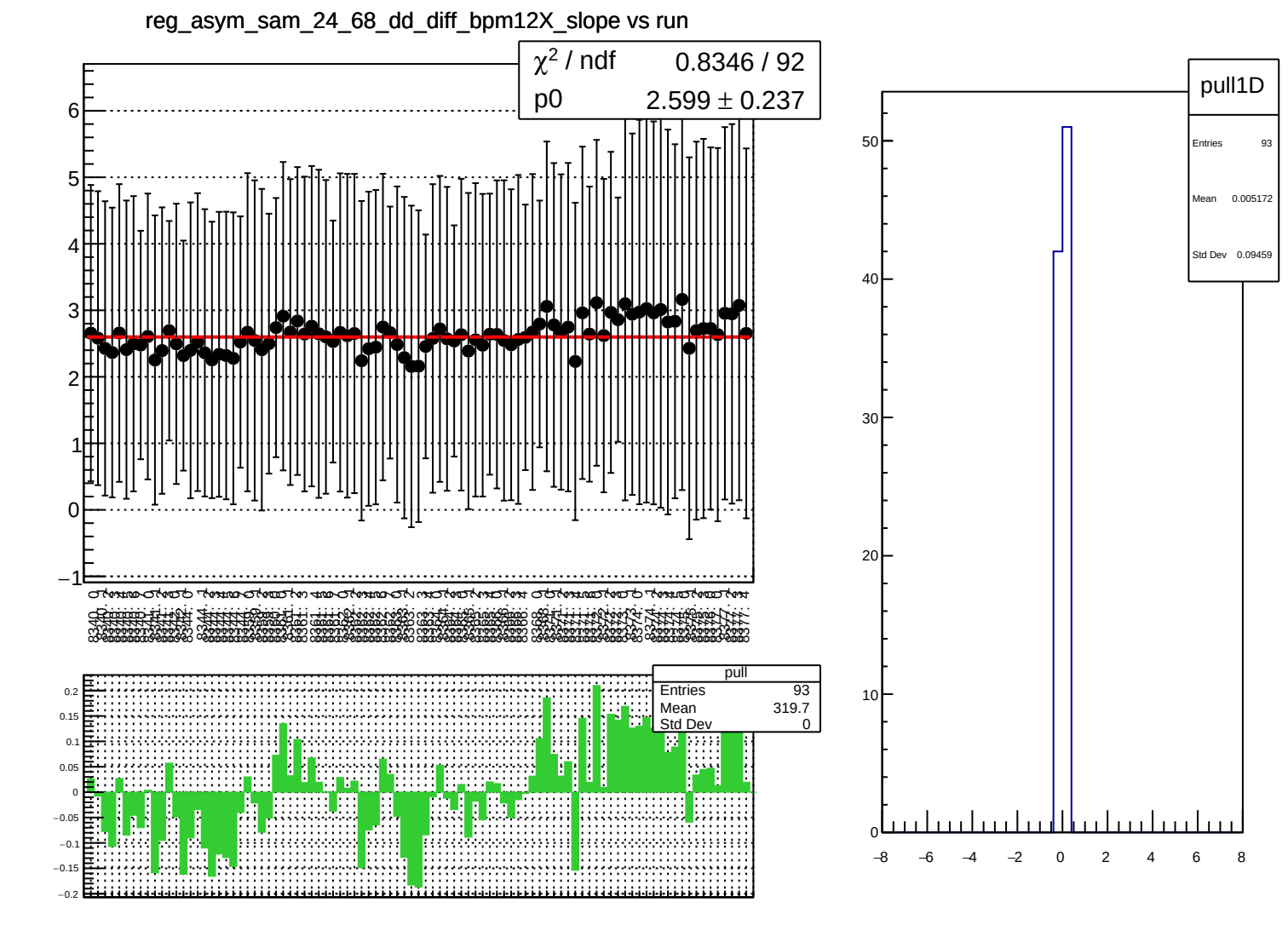

pull1D
Entries 93
Mean −0.002786
Std Dev 0.1454

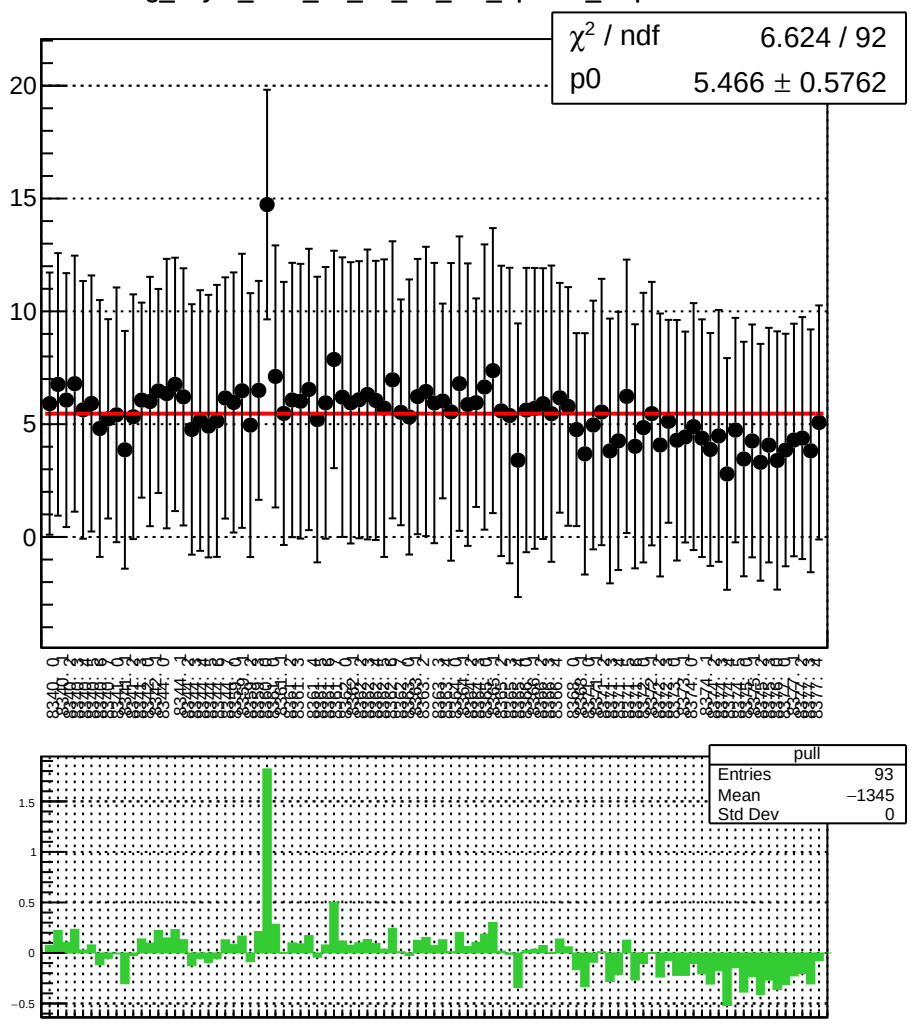

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.6573 / 92
p0 −32.05 ± 3.83
pull
Entries 93
Mean 956.2
Std Dev 0
pull1D
Entries 93
Mean 0.0005366
Std Dev 0.08407

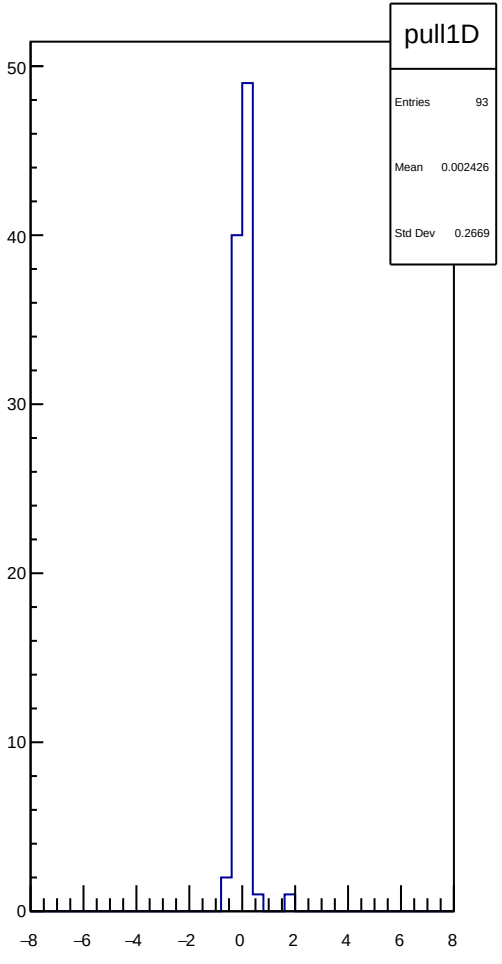

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.158 / 92
p0 −89.27 ± 2.212
pull
Entries 93
Mean −1610
Std Dev 0
pull1D
Entries 93
Mean 0.001061
Std Dev 0.1116

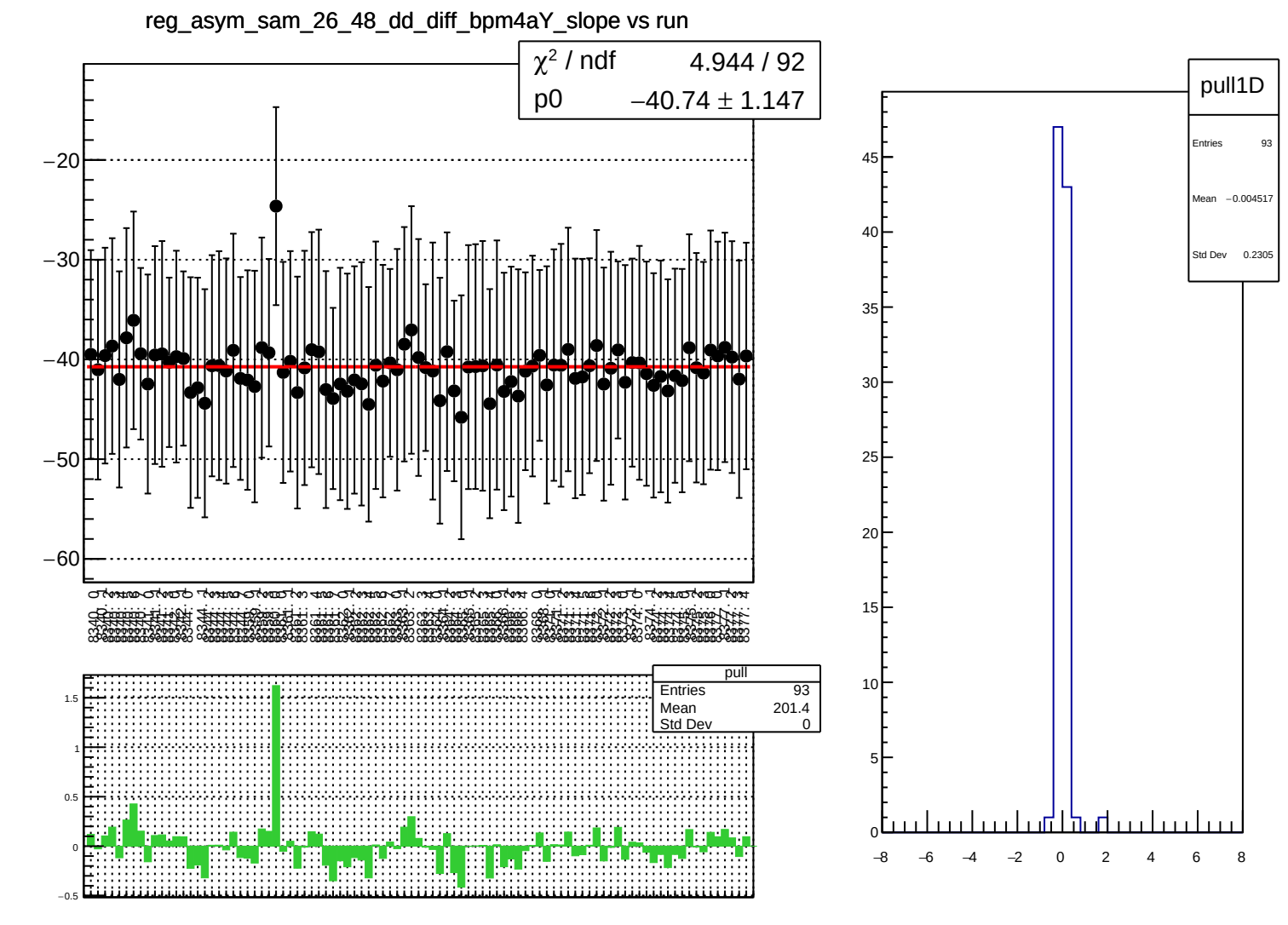

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.6759 / 92
p0 14.51 ± 3.955
pull
Entries 93
Mean 1187
Std Dev 0

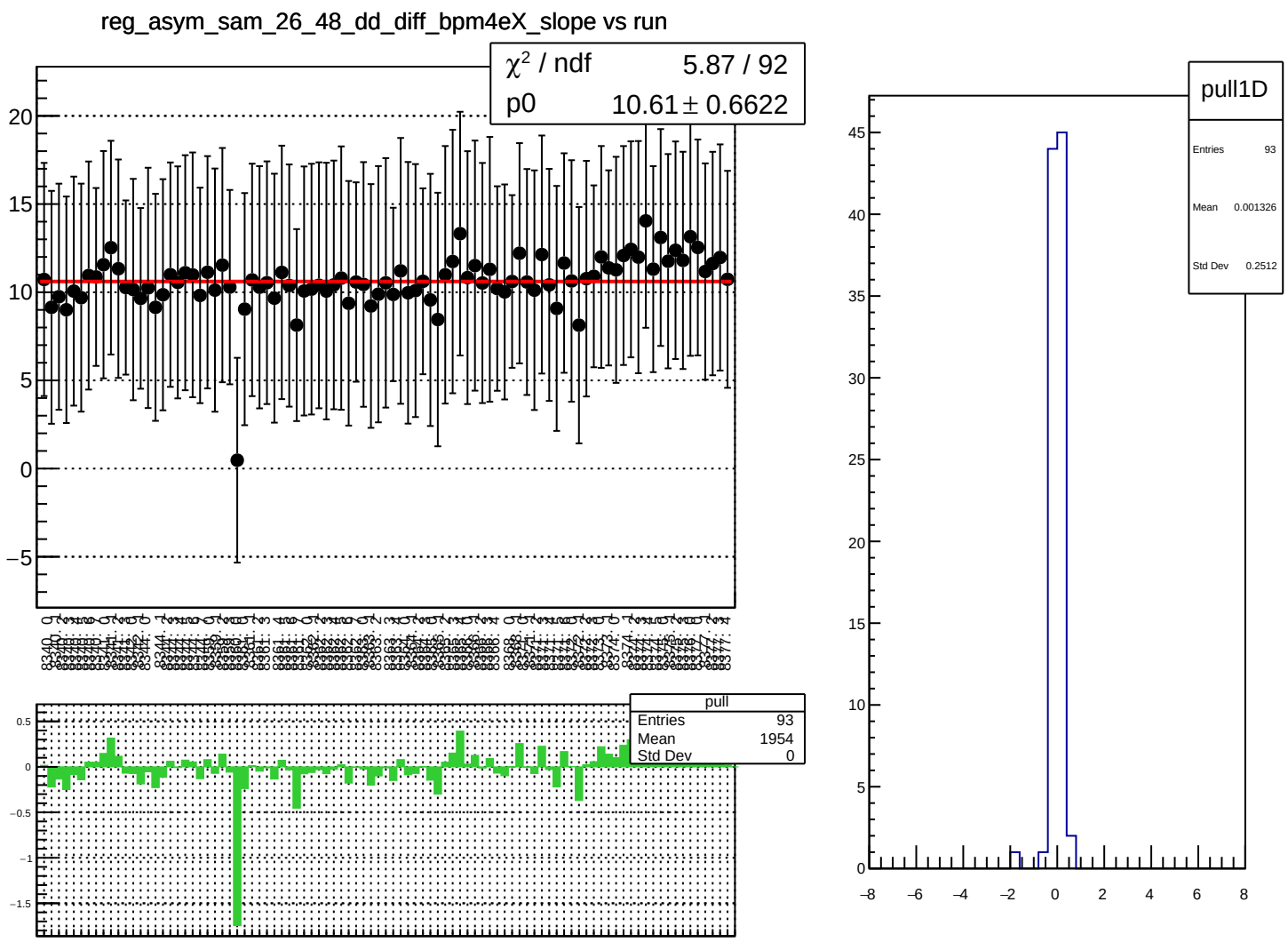

pull1D
Entries 93
Mean −0.0004613
Std Dev 0.08525

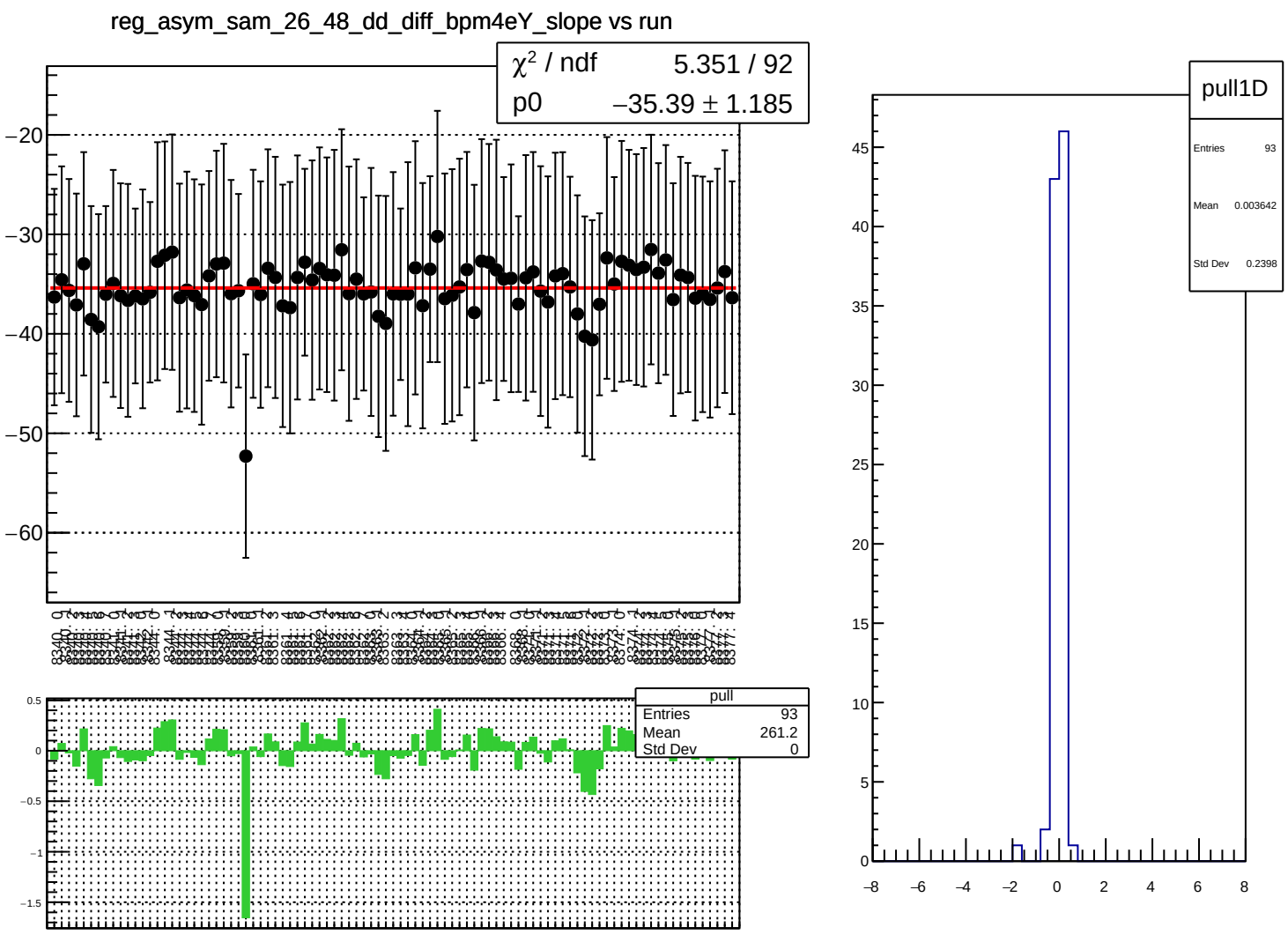

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8346 / 92
p0 2.599 ± 0.237
pull
Entries 93
Mean 319.7
Std Dev 0
pull1D
Entries 93
Mean 0.005172
Std Dev 0.09459

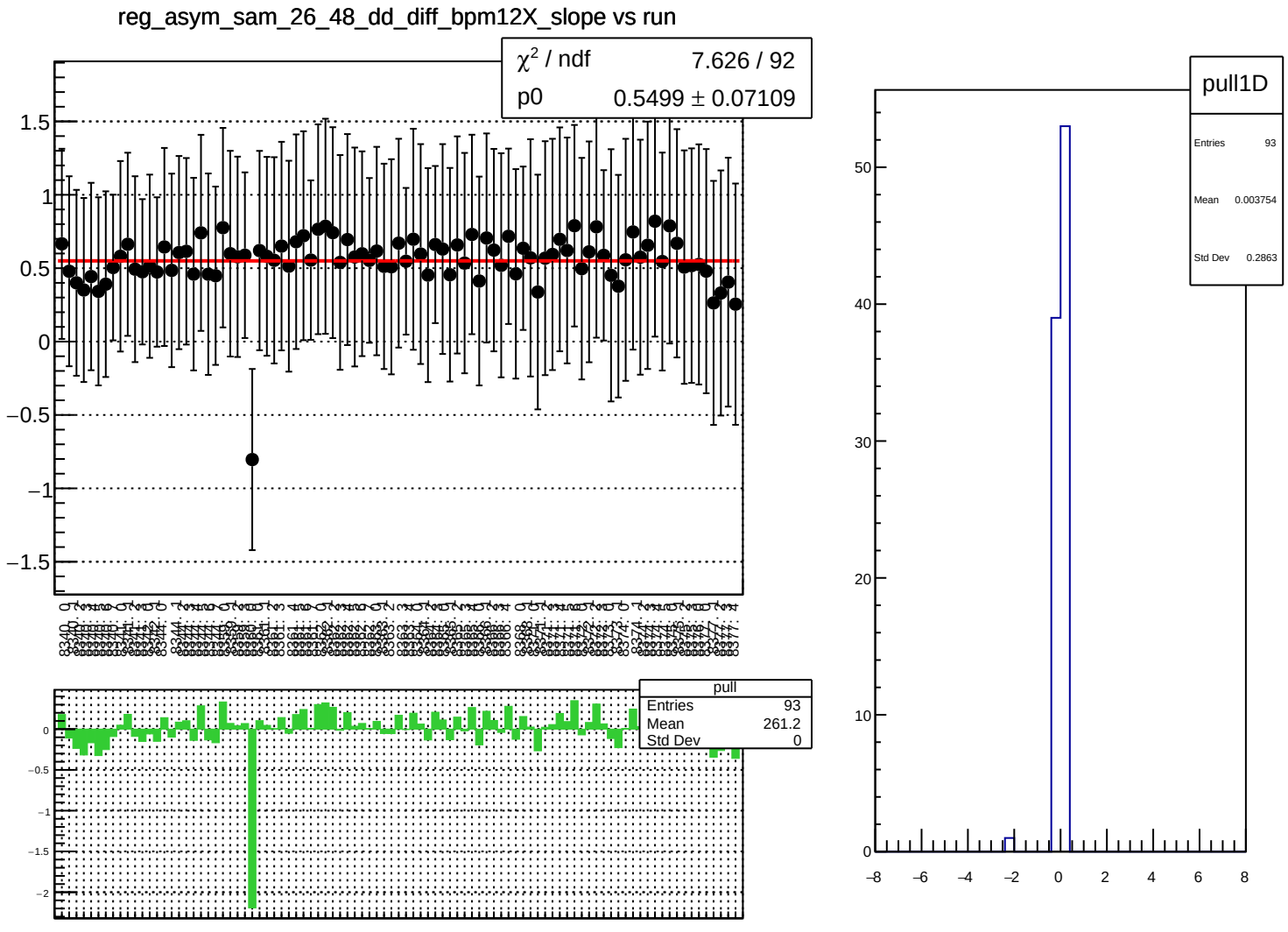

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.624 / 92
p0 5.466 ± 0.5762
pull
Entries 93
Mean −1345
Std Dev 0

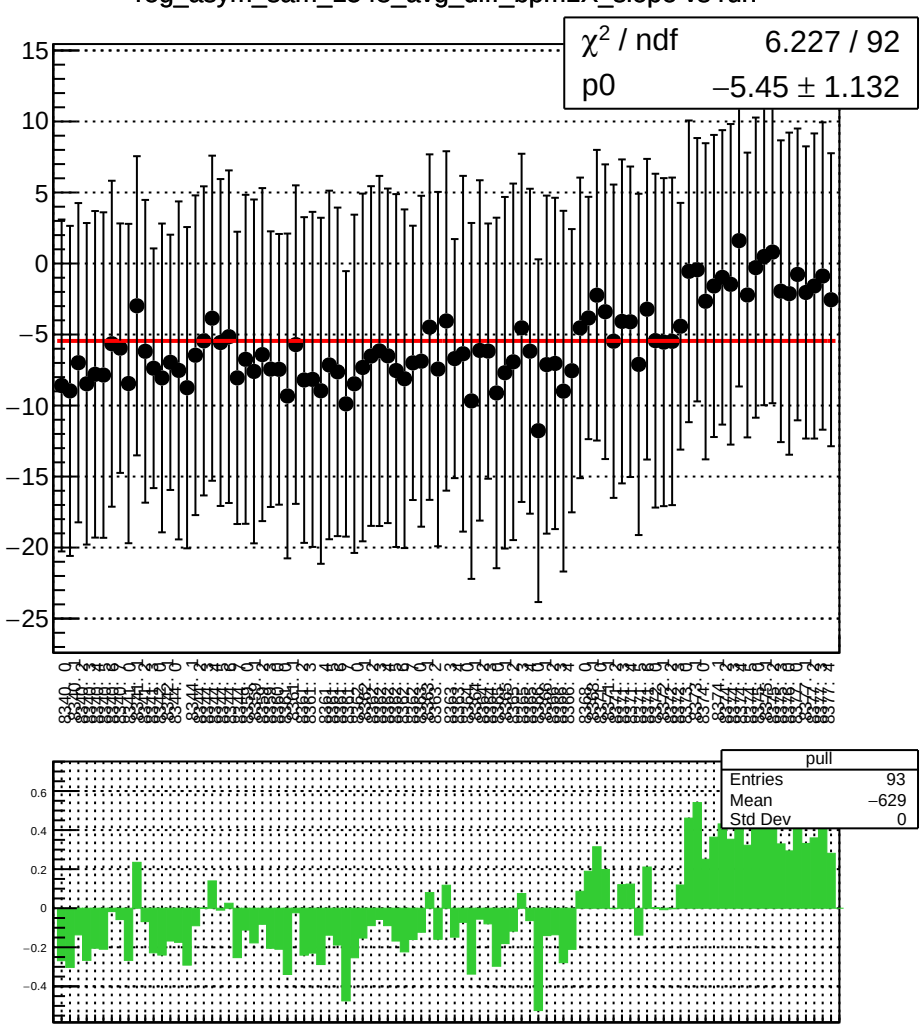

pull1D
Entries 93
Mean 0.002426
Std Dev 0.2669

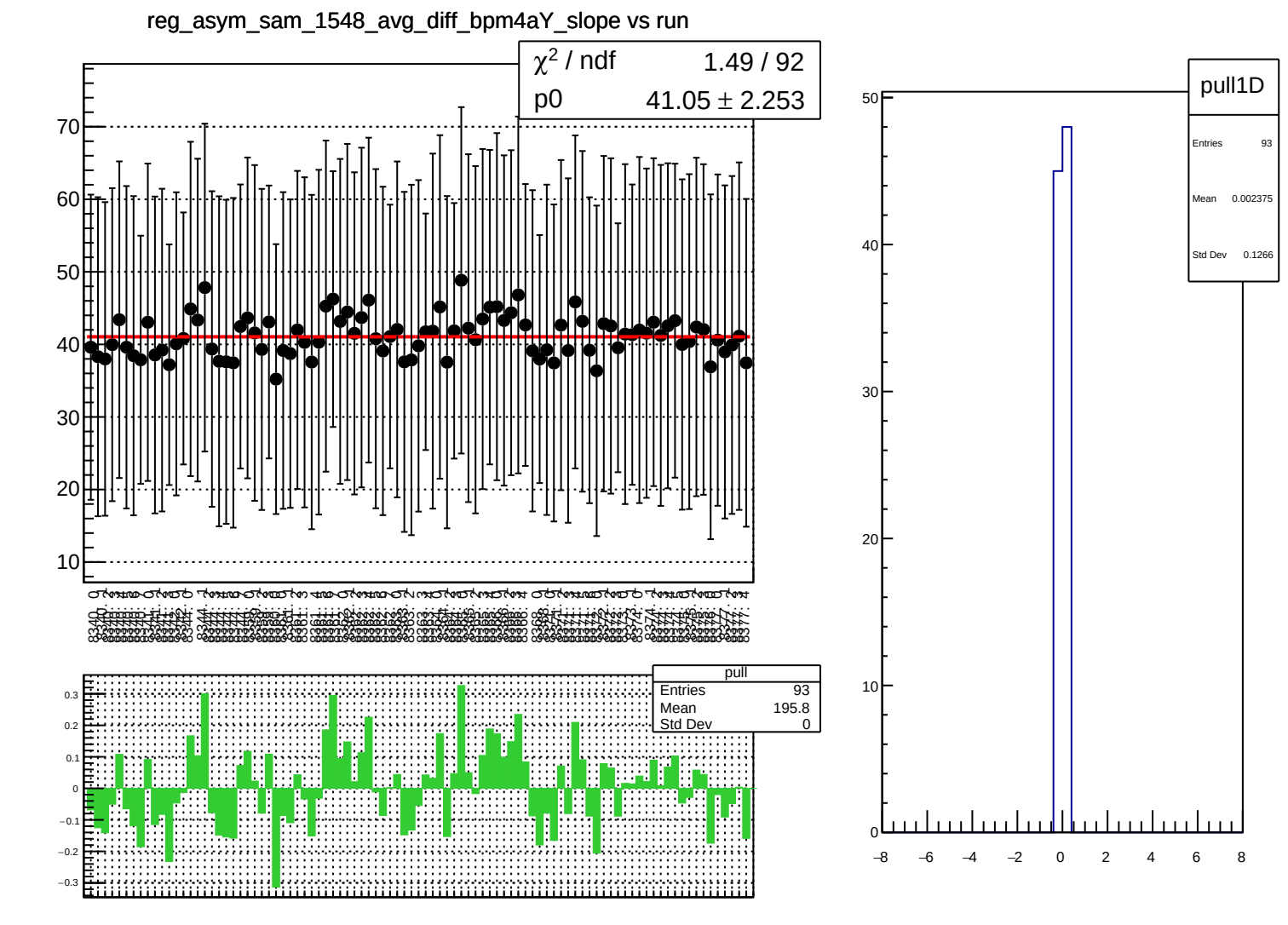

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.944 / 92
p0 −40.74 ± 1.147
−20
−30
−40
−50
−60
pull
Entries 93
Mean 201.4
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 93
Mean −0.004517
Std Dev 0.2305
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

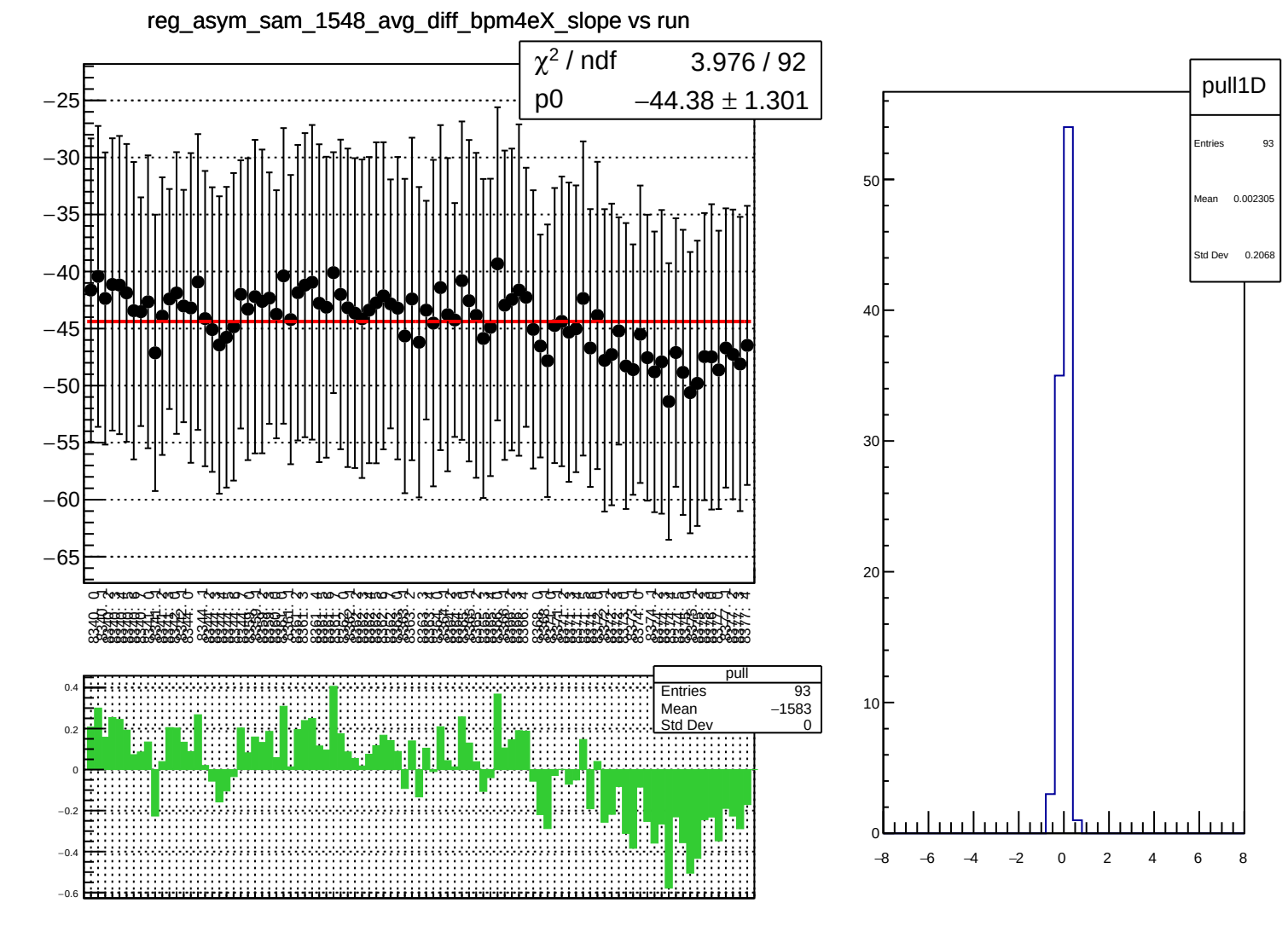

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.87 / 92
p0 10.61 ± 0.6622
pull
Entries 93
Mean 1954
Std Dev 0
pull1D
Entries 93
Mean 0.001326
Std Dev 0.2512

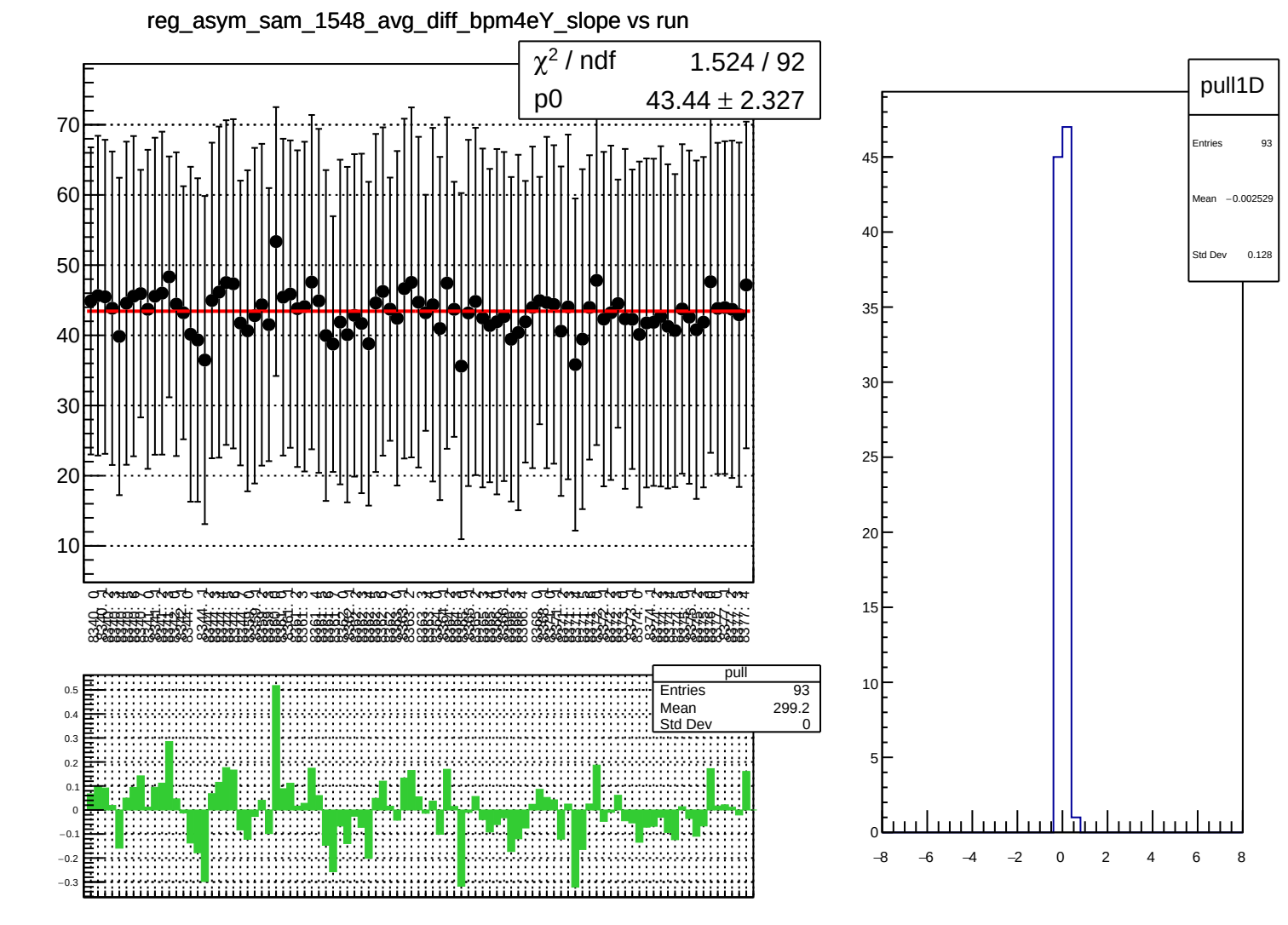

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.351 / 92
p0 −35.39 ± 1.185
pull
Entries 93
Mean 261.2
Std Dev 0
pull1D
Entries 93
Mean 0.003642
Std Dev 0.2398

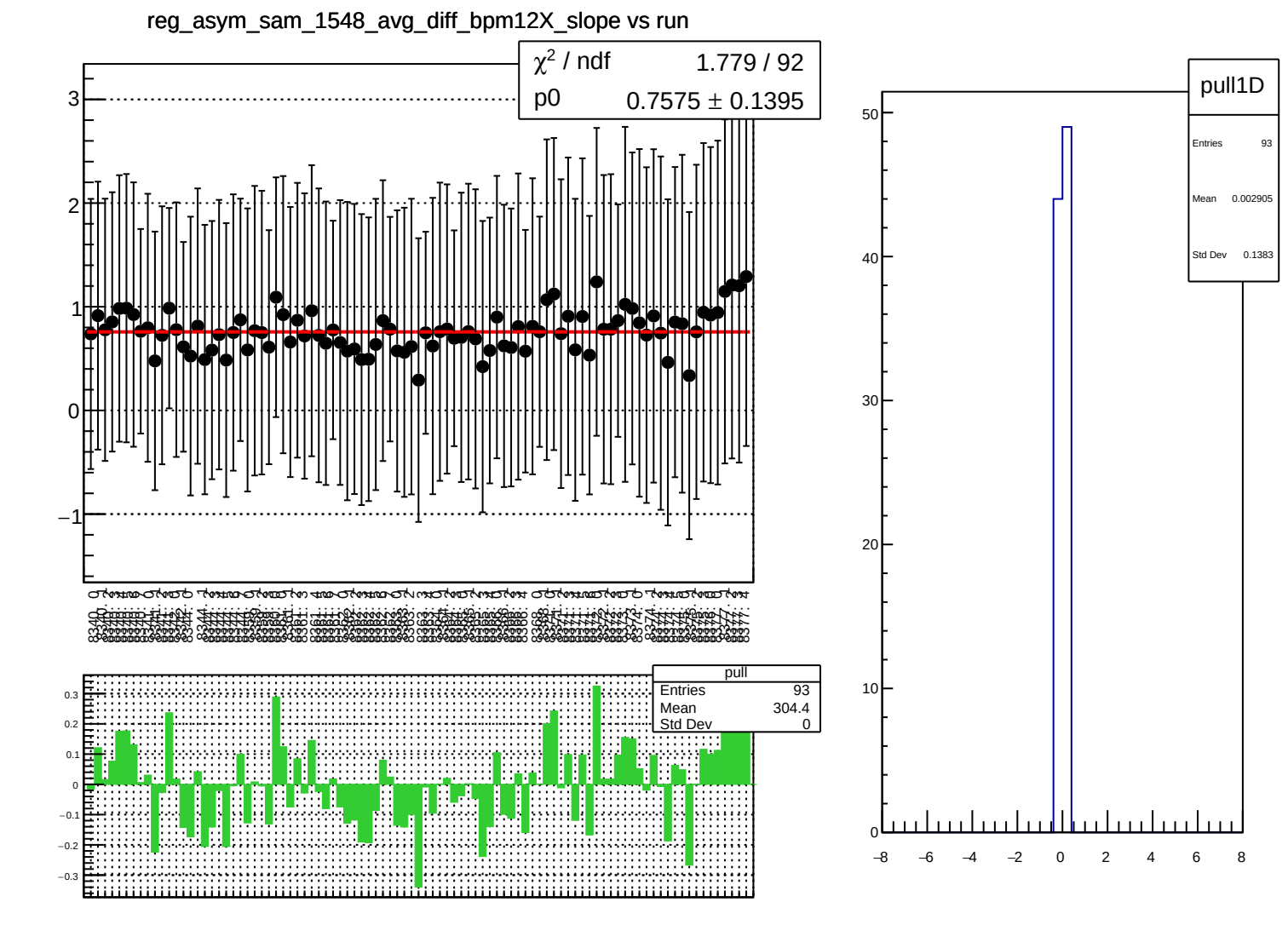

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 7.626 / 92
p0 0.5499 ± 0.07109
pull
Entries 93
Mean 261.2
Std Dev 0
pull1D
Entries 93
Mean 0.003754
Std Dev 0.2863

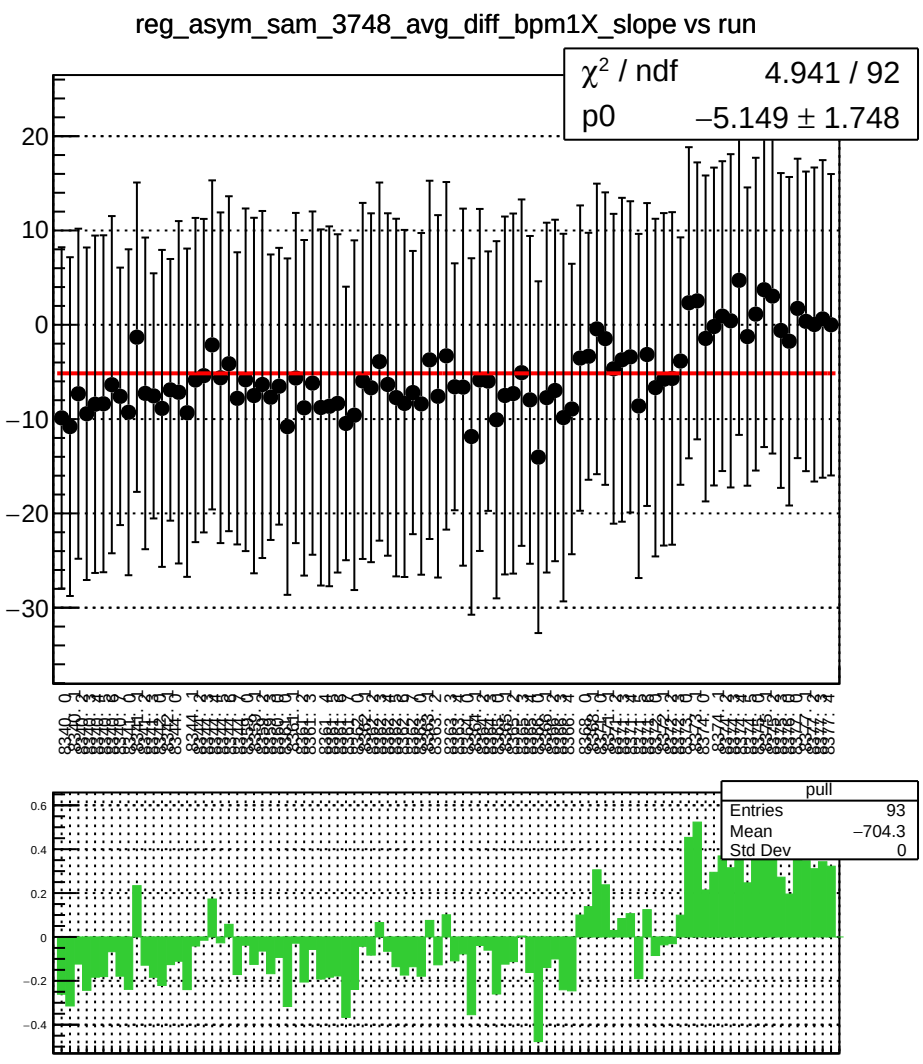

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 6.227 / 92
p0 −5.45 ± 1.132
pull
Entries 93
Mean −629
Std Dev 0
pull1D
Entries 93
Mean −0.007097
Std Dev 0.2587

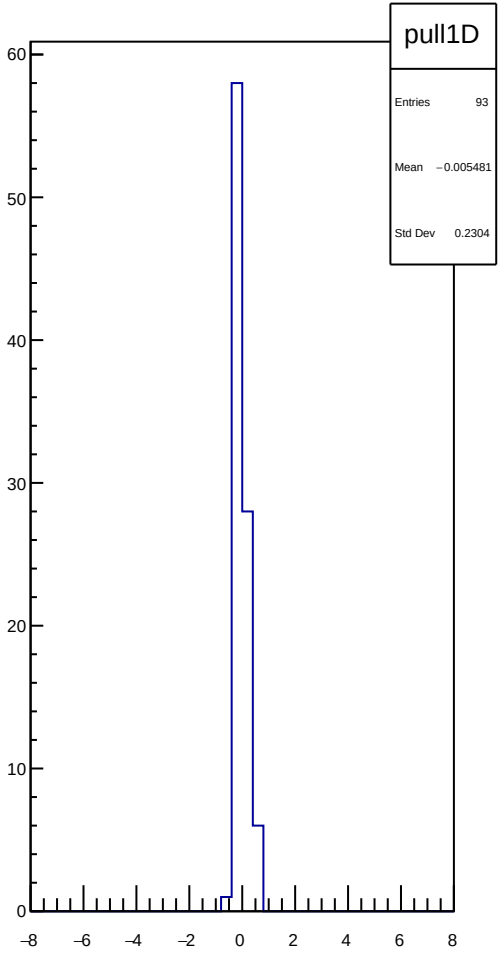

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.49 / 92
p0 41.05 ± 2.253
pull
Entries 93
Mean 195.8
Std Dev 0
pull1D
Entries 93
Mean 0.002375
Std Dev 0.1266

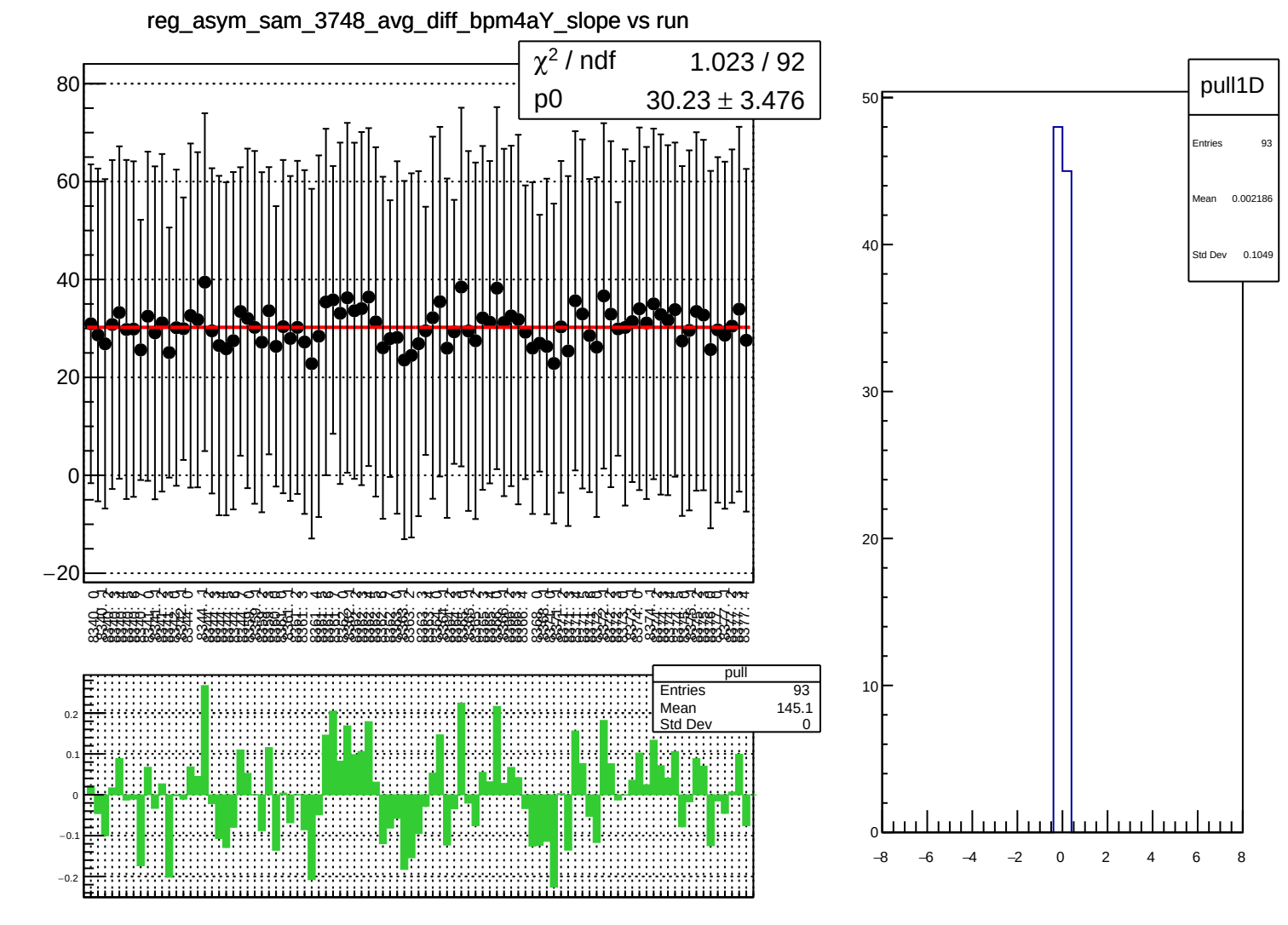

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.976 / 92
p0 −44.38 ± 1.301
pull
Entries 93
Mean −1583
Std Dev 0
pull1D
Entries 93
Mean 0.002305
Std Dev 0.2068

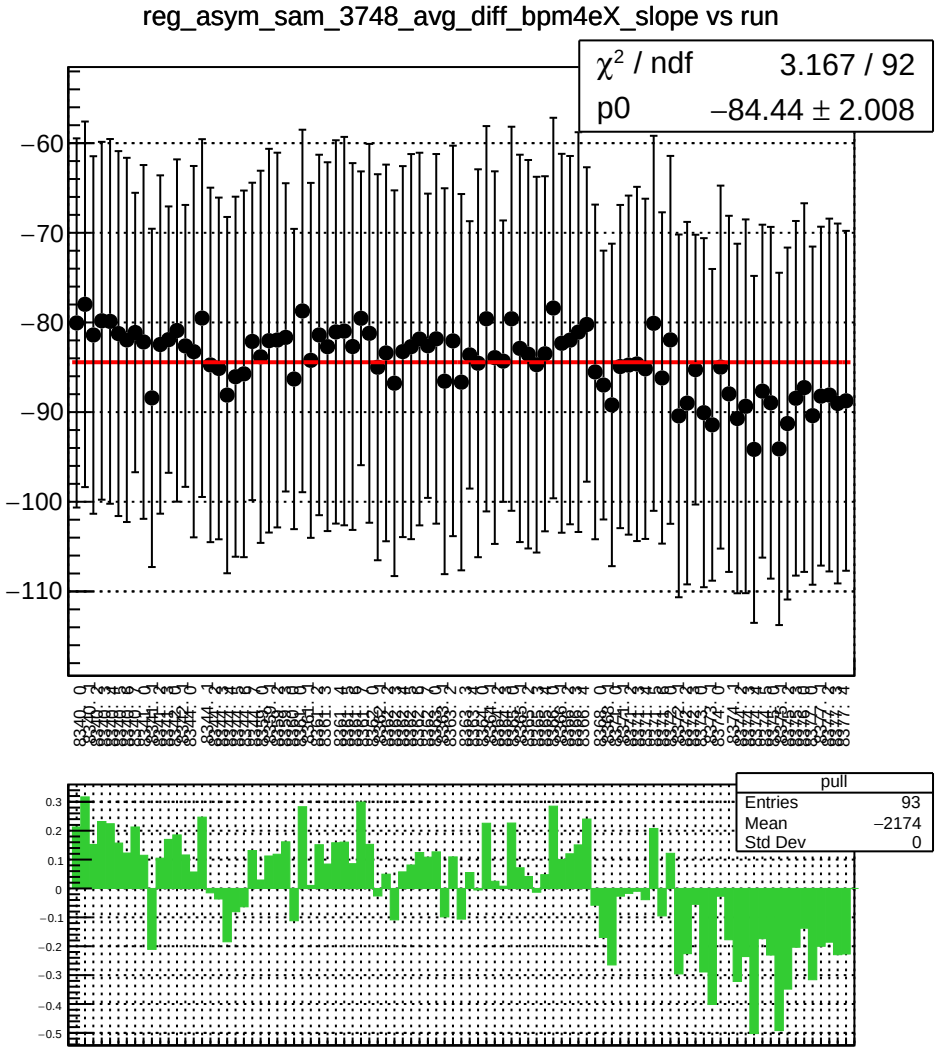

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.524 / 92
p0 43.44 ± 2.327
pull
Entries 93
Mean 299.2
Std Dev 0
pull1D
Entries 93
Mean −0.002529
Std Dev 0.128

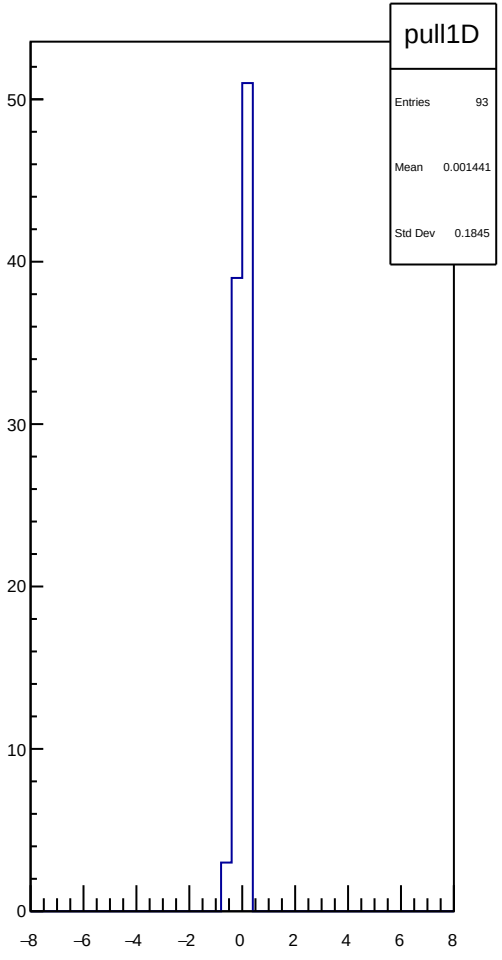

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 1.779 / 92
p0 0.7575 ± 0.1395
pull
Entries 93
Mean 304.4
Std Dev 0
pull1D
Entries 93
Mean 0.002905
Std Dev 0.1383

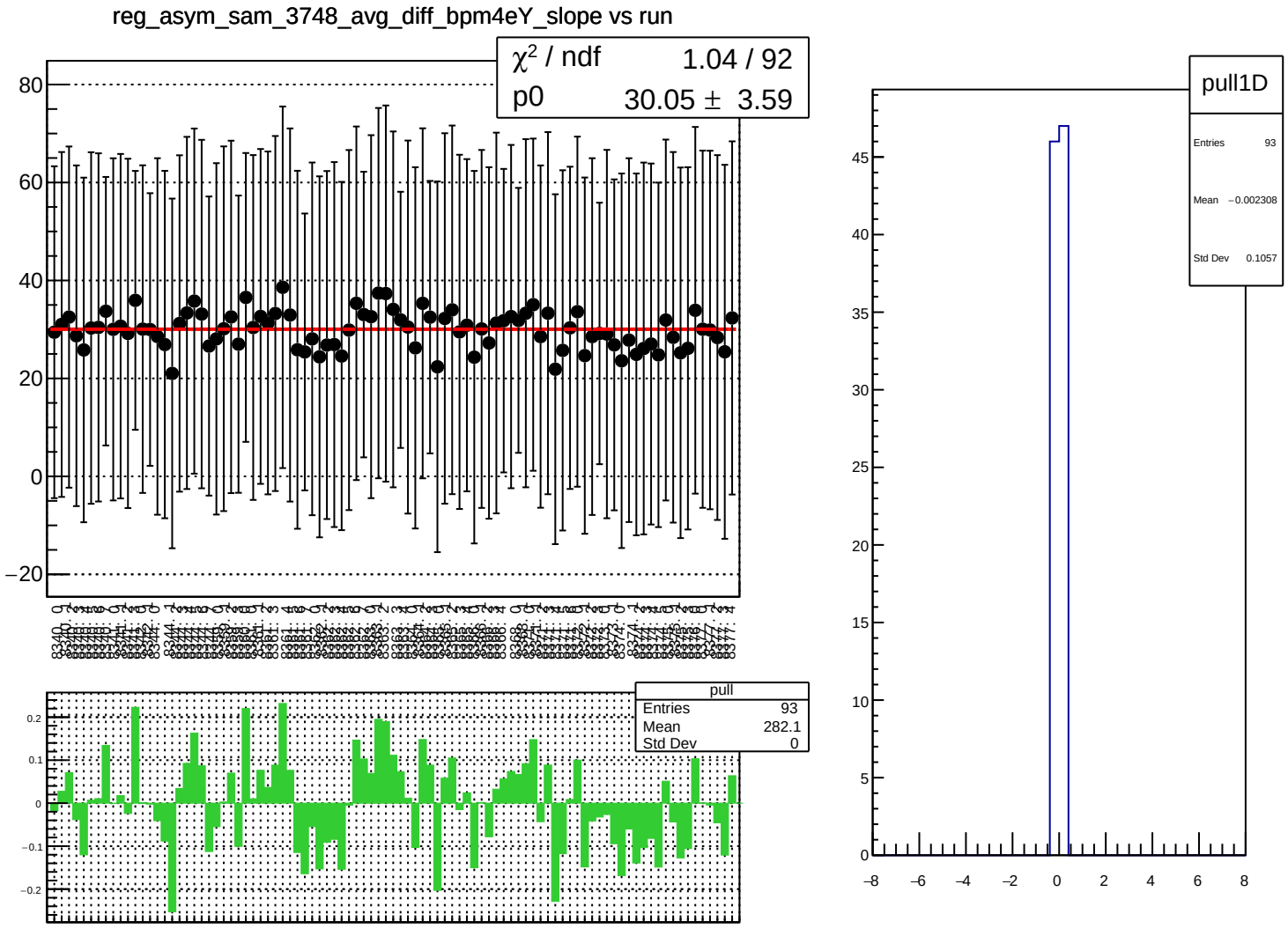

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.941 / 92
p0 −5.149 ± 1.748
pull
Entries 93
Mean −704.3
Std Dev 0

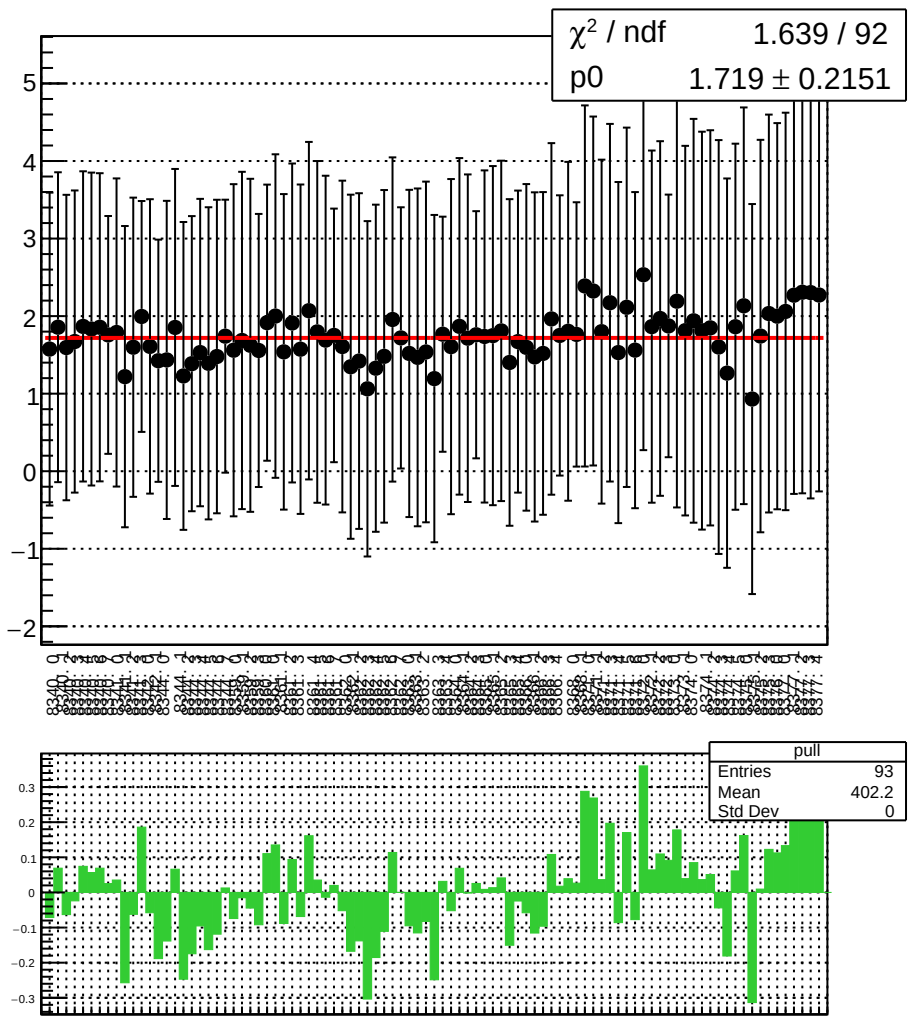

pull1D
Entries 93
Mean −0.005481
Std Dev 0.2304

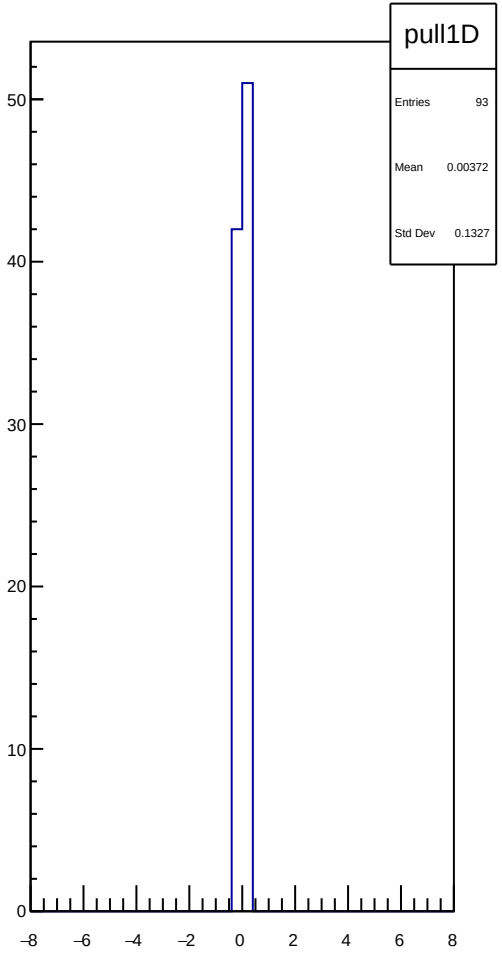

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.023 / 92
p0 30.23 ± 3.476
pull
Entries 93
Mean 145.1
Std Dev 0
pull1D
Entries 93
Mean 0.002186
Std Dev 0.1049

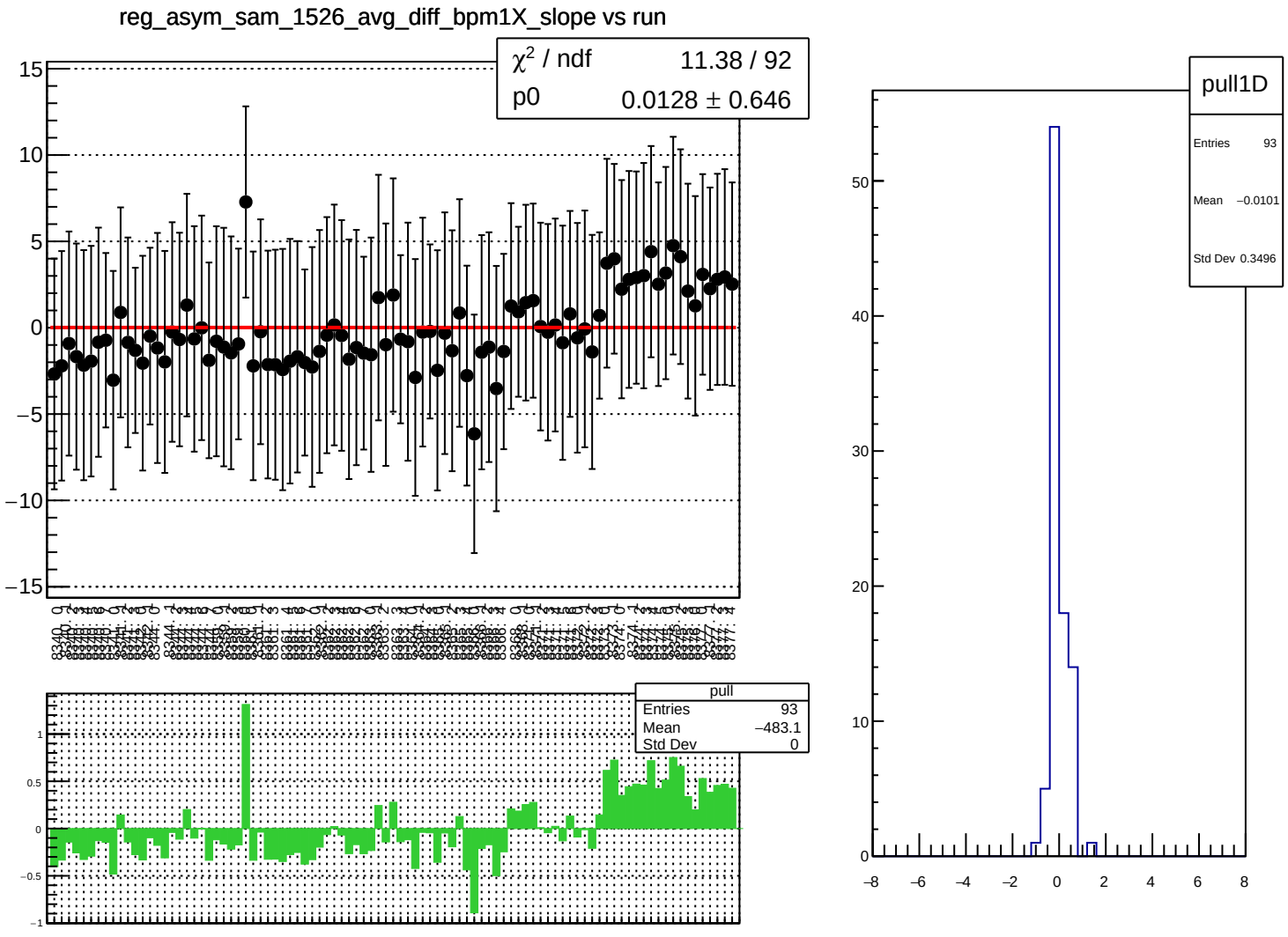

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.167 / 92
p0 −84.44 ± 2.008
pull
Entries 93
Mean −2174
Std Dev 0

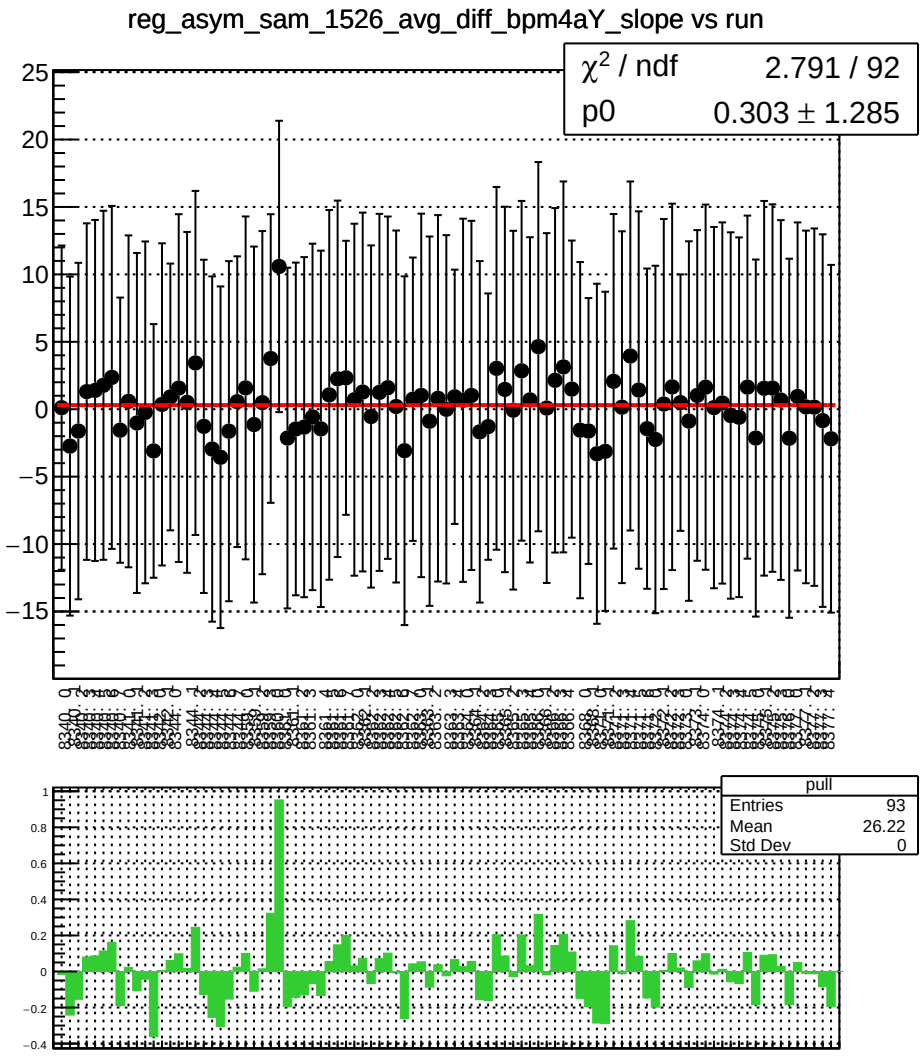

pull1D
Entries 93
Mean 0.001441
Std Dev 0.1845

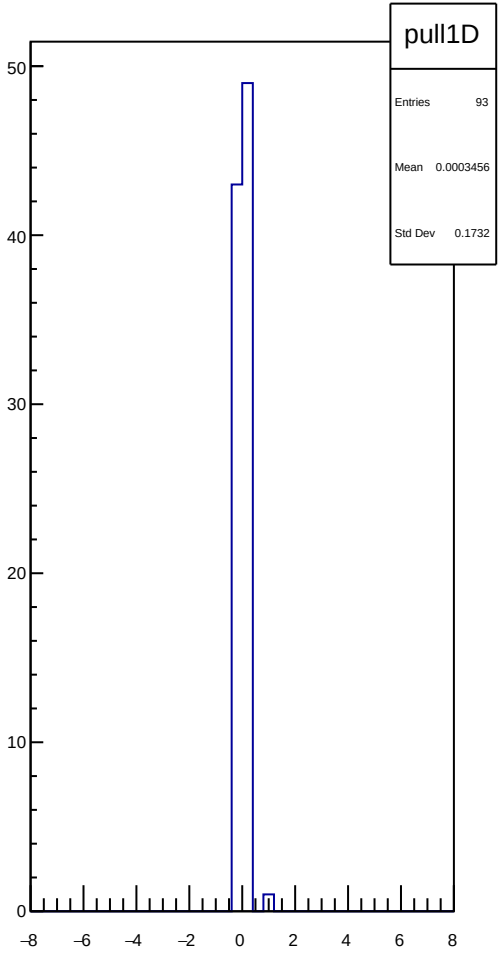

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.04 / 92
p0 30.05 ± 3.59
pull
Entries 93
Mean 282.1
Std Dev 0
pull1D
Entries 93
Mean −0.002308
Std Dev 0.1057

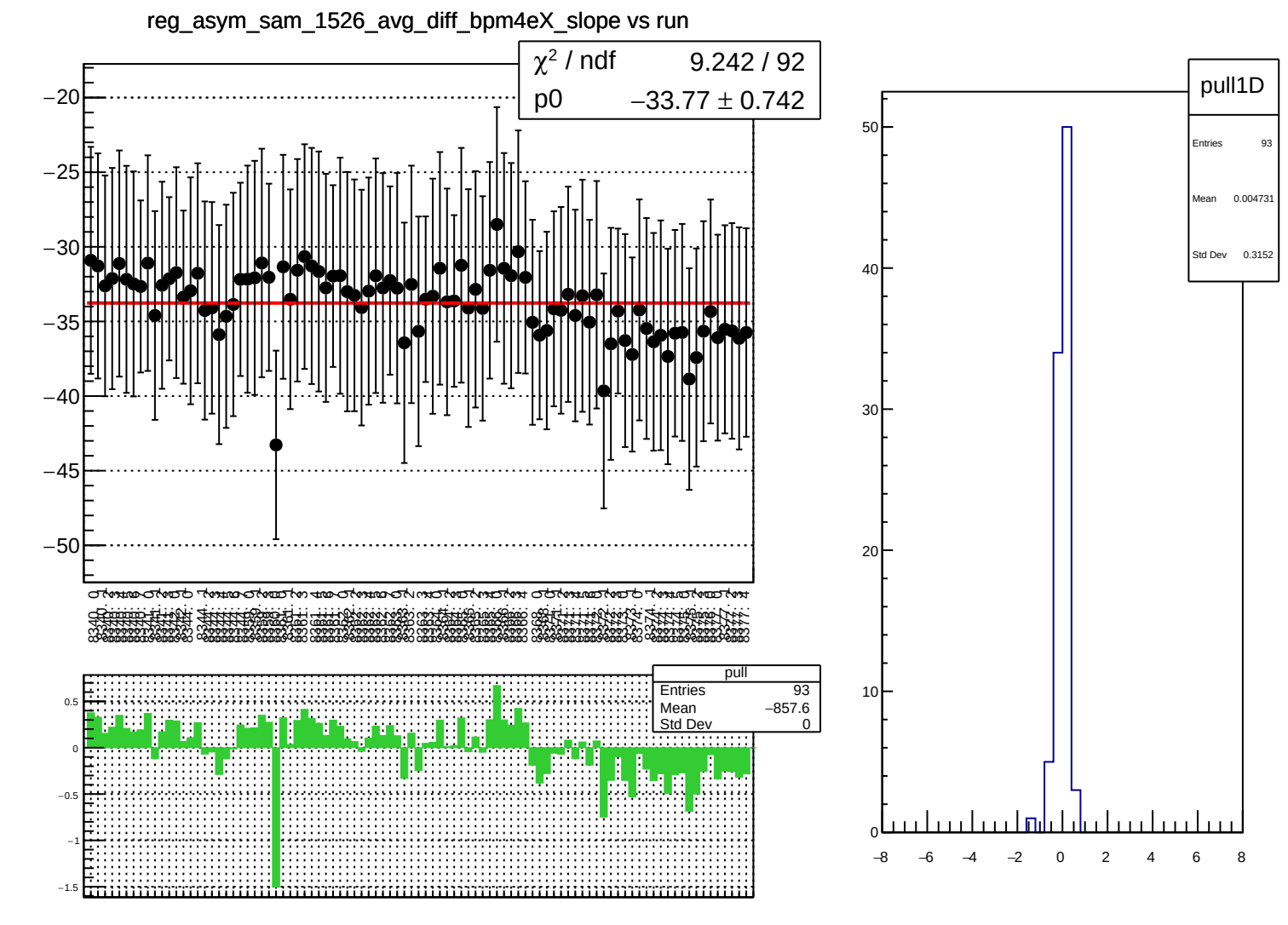

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 1.639 / 92
p0 1.719 ± 0.2151
pull
Entries 93
Mean 402.2
Std Dev 0

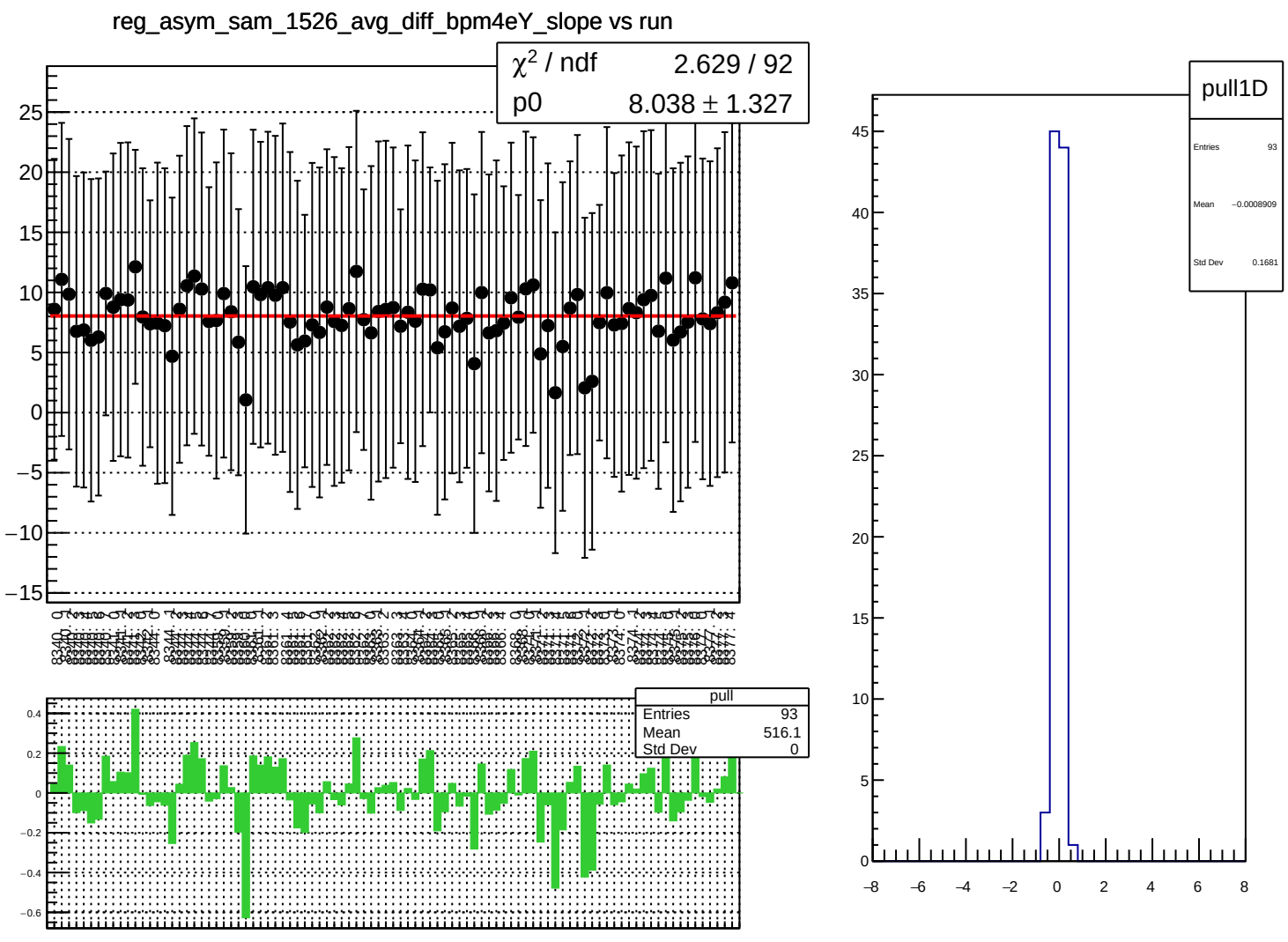

pull1D
Entries 93
Mean 0.00372
Std Dev 0.1327

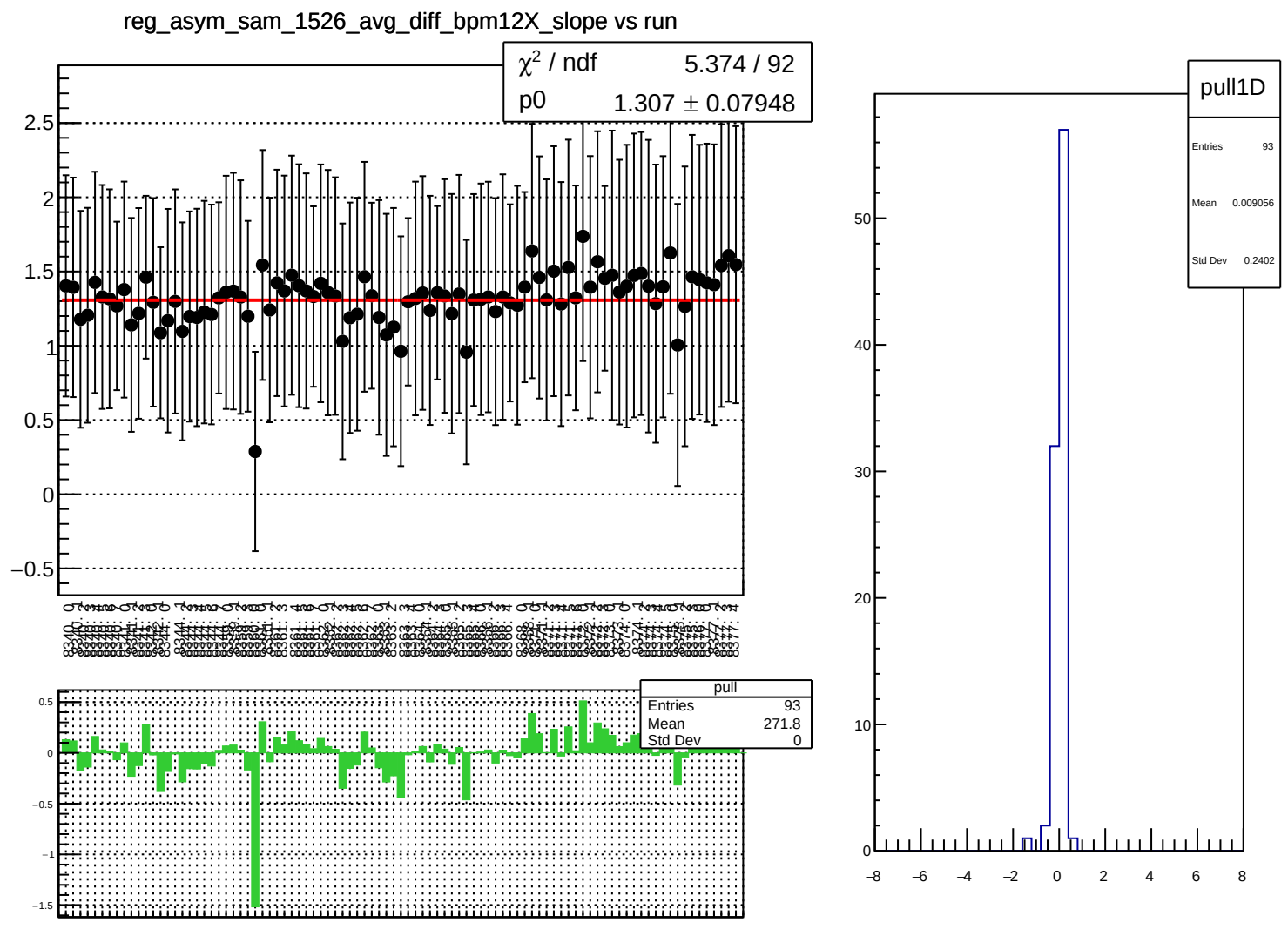

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 11.38 / 92
p0 0.0128 ± 0.646
pull
Entries 93
Mean −483.1
Std Dev 0
pull1D
Entries 93
Mean −0.0101
Std Dev 0.3496

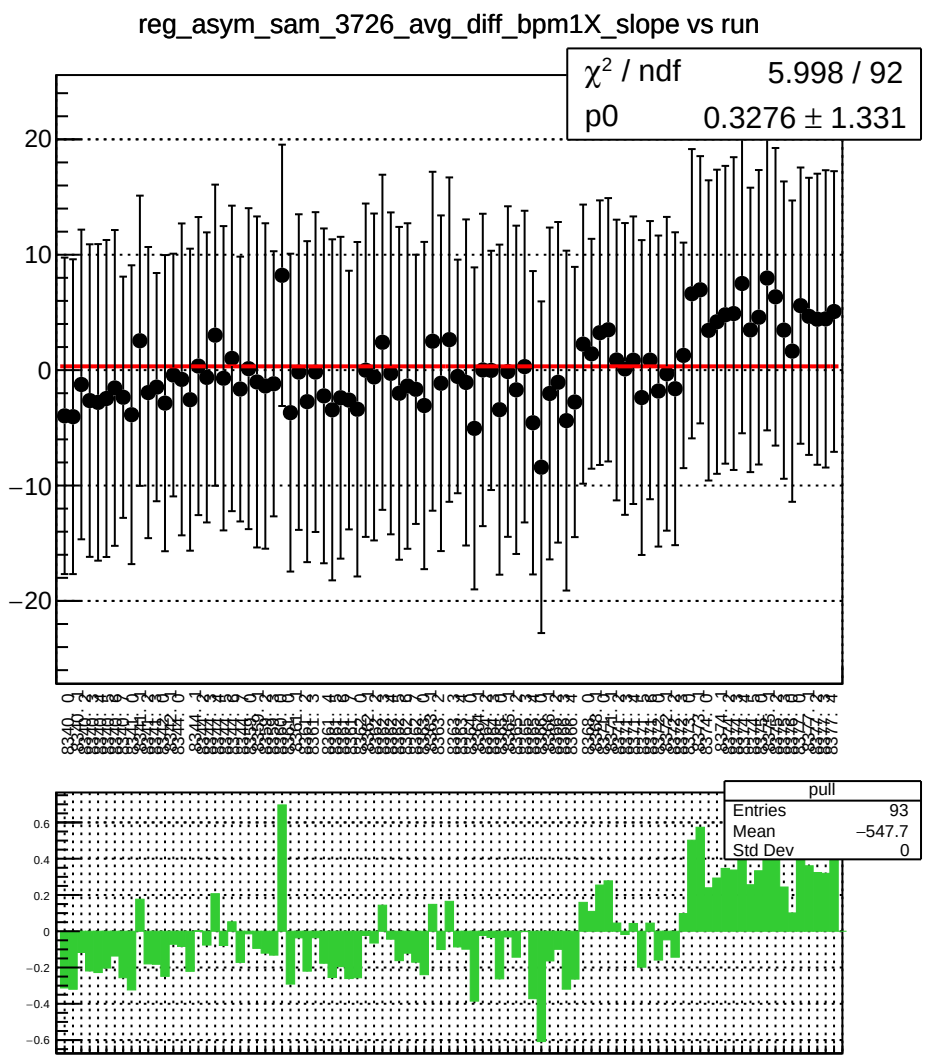

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.791 / 92
p0 0.303 ± 1.285
pull
Entries 93
Mean 26.22
Std Dev 0

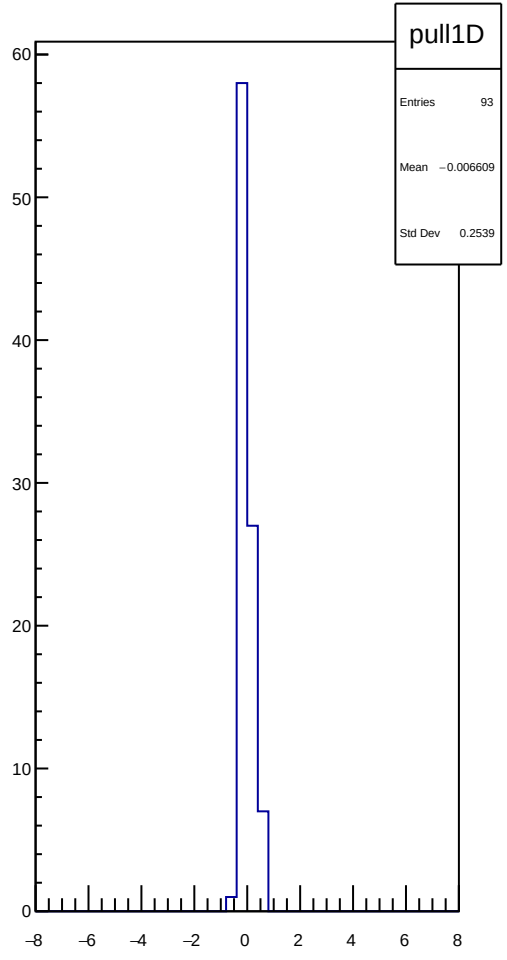

pull1D
Entries 93
Mean 0.0003456
Std Dev 0.1732

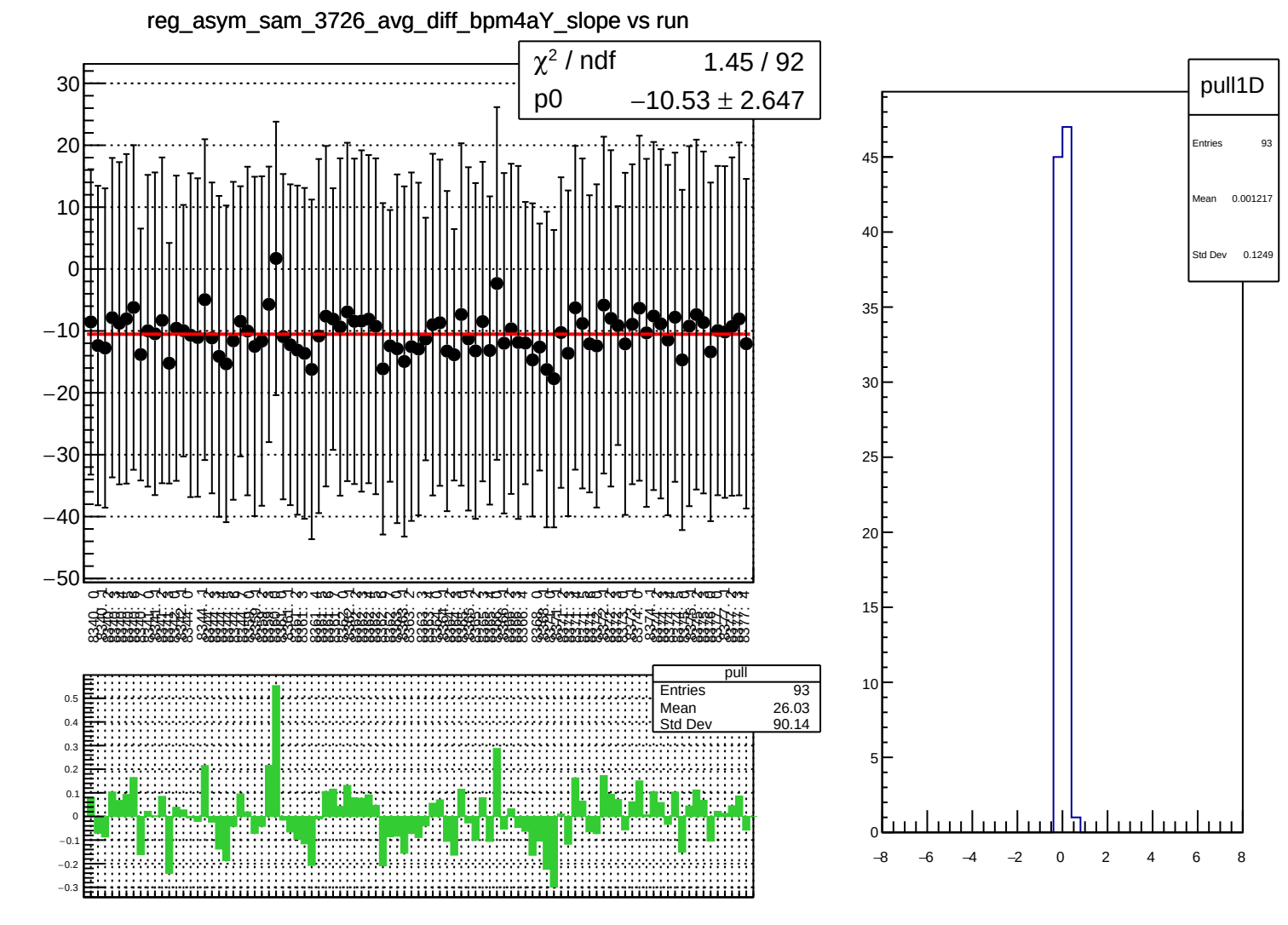

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.242 / 92
p0 −33.77 ± 0.742
pull
Entries 93
Mean −857.6
Std Dev 0
pull1D
Entries 93
Mean 0.004731
Std Dev 0.3152

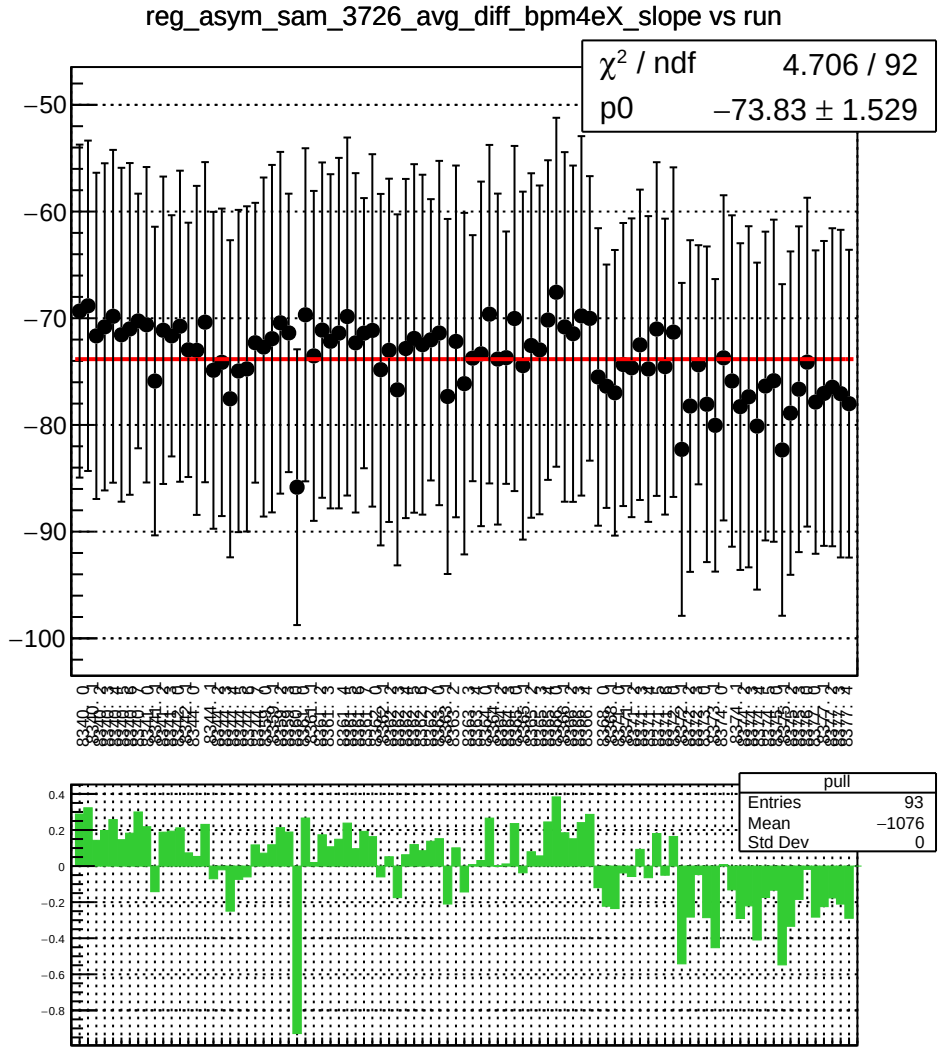

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.629 / 92
p0 8.038 ± 1.327
pull
Entries 93
Mean 516.1
Std Dev 0
pull1D
Entries 93
Mean −0.0008909
Std Dev 0.1681

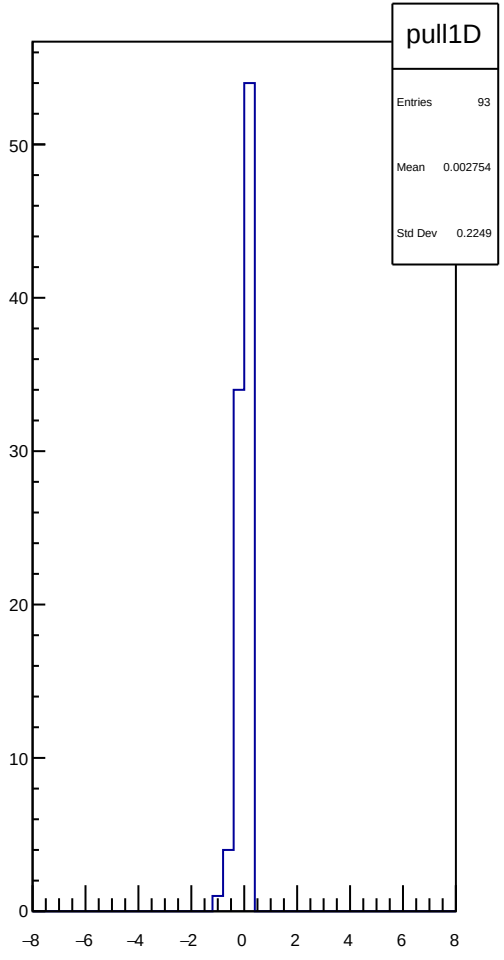

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.374 / 92
p0 1.307 ± 0.07948
pull
Entries 93
Mean 271.8
Std Dev 0
pull1D
Entries 93
Mean 0.009056
Std Dev 0.2402

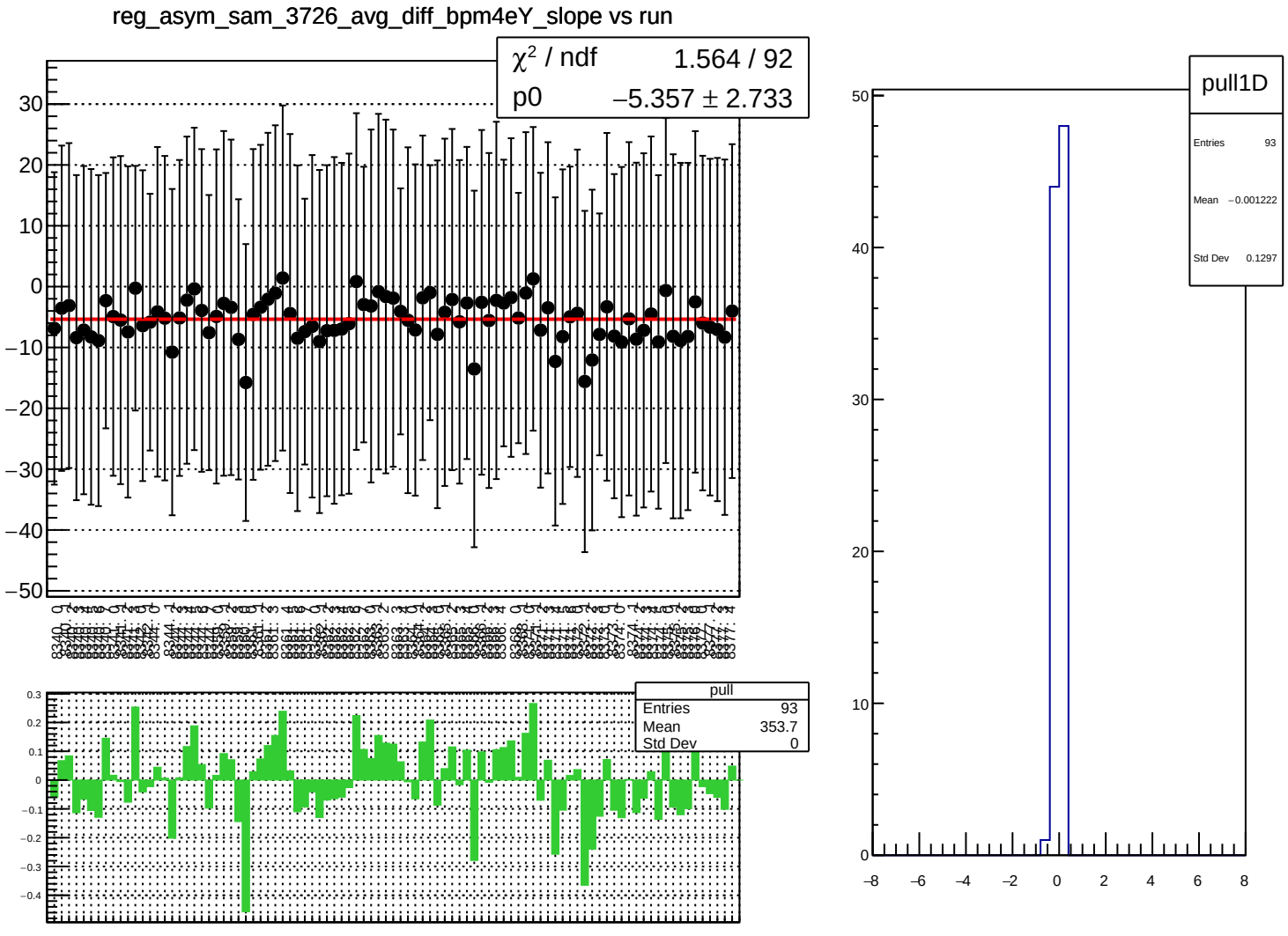

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 5.998 / 92
p0 0.3276 ± 1.331
20
10
0
−10
−20
pull
Entries 93
Mean −547.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

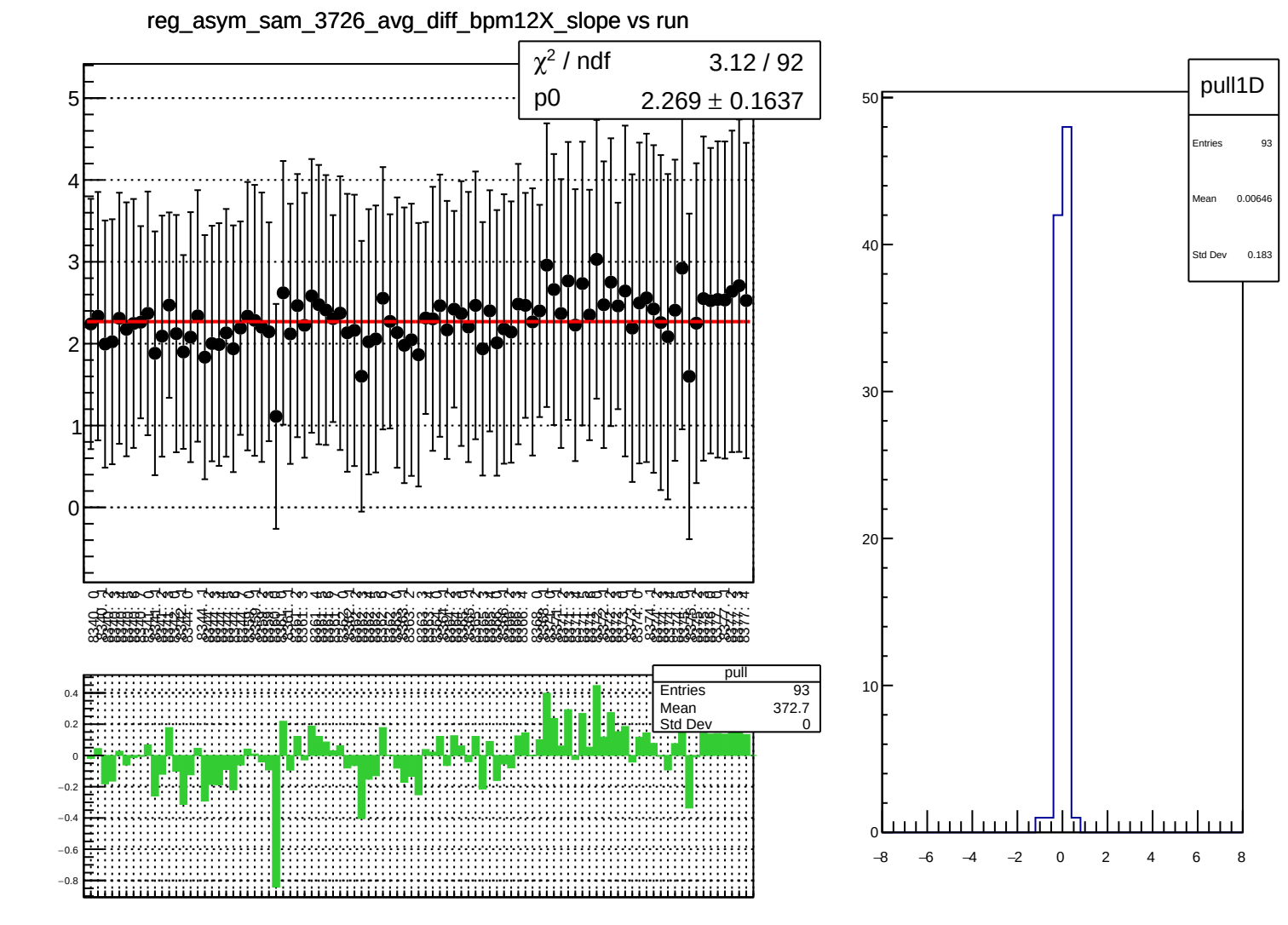

pull1D
Entries 93
Mean −0.006609
Std Dev 0.2539
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

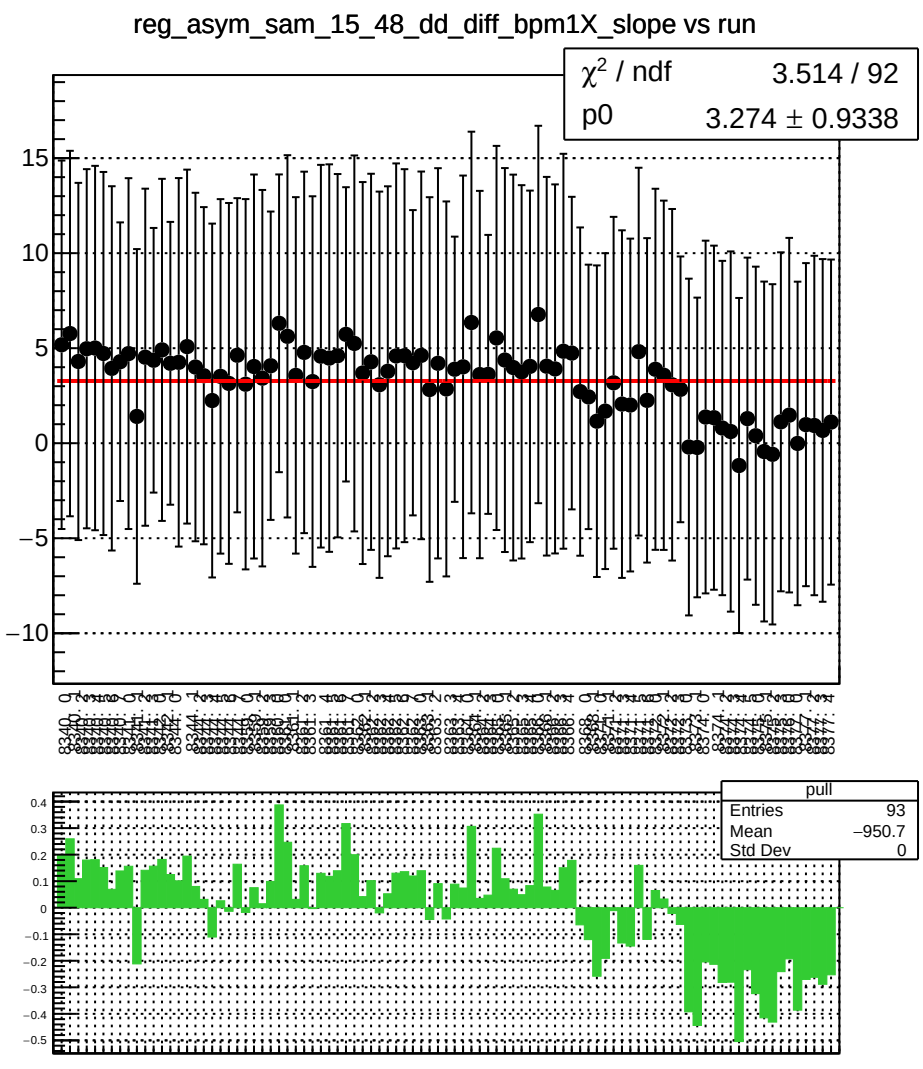

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.45 / 92
p0 −10.53 ± 2.647
pull
Entries 93
Mean 26.03
Std Dev 90.14
pull1D
Entries 93
Mean 0.001217
Std Dev 0.1249

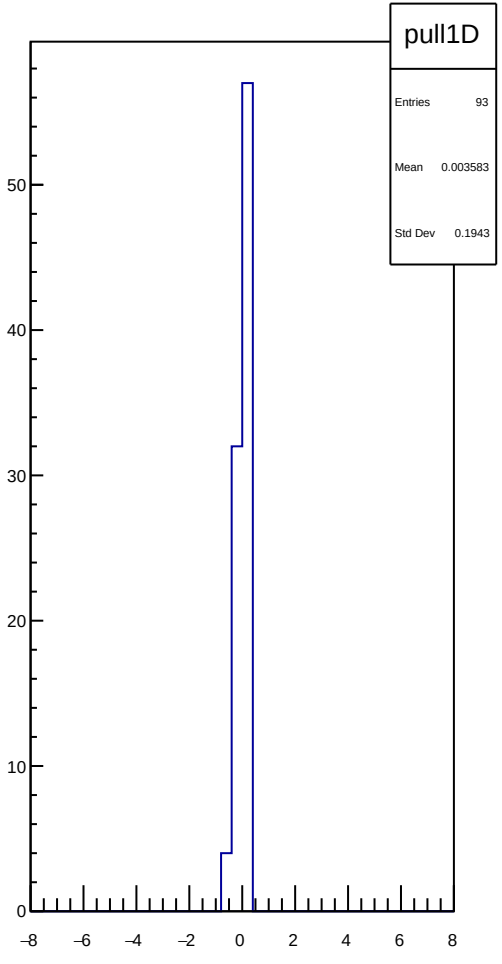

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.706 / 92
p0 −73.83 ± 1.529
−50
−60
−70
−80
−90
−100
pull
Entries 93
Mean −1076
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

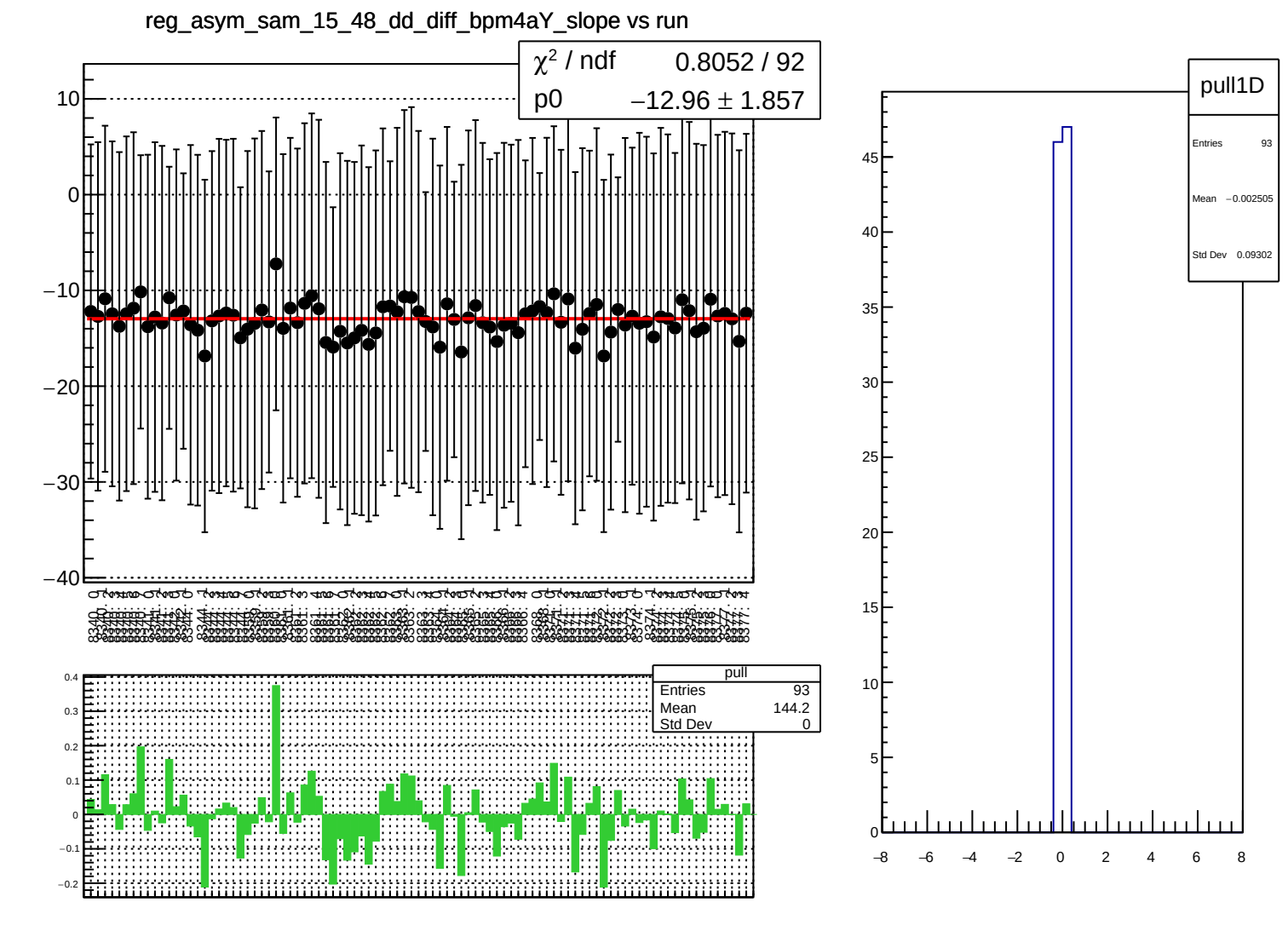

pull1D
Entries 93
Mean 0.002754
Std Dev 0.2249
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

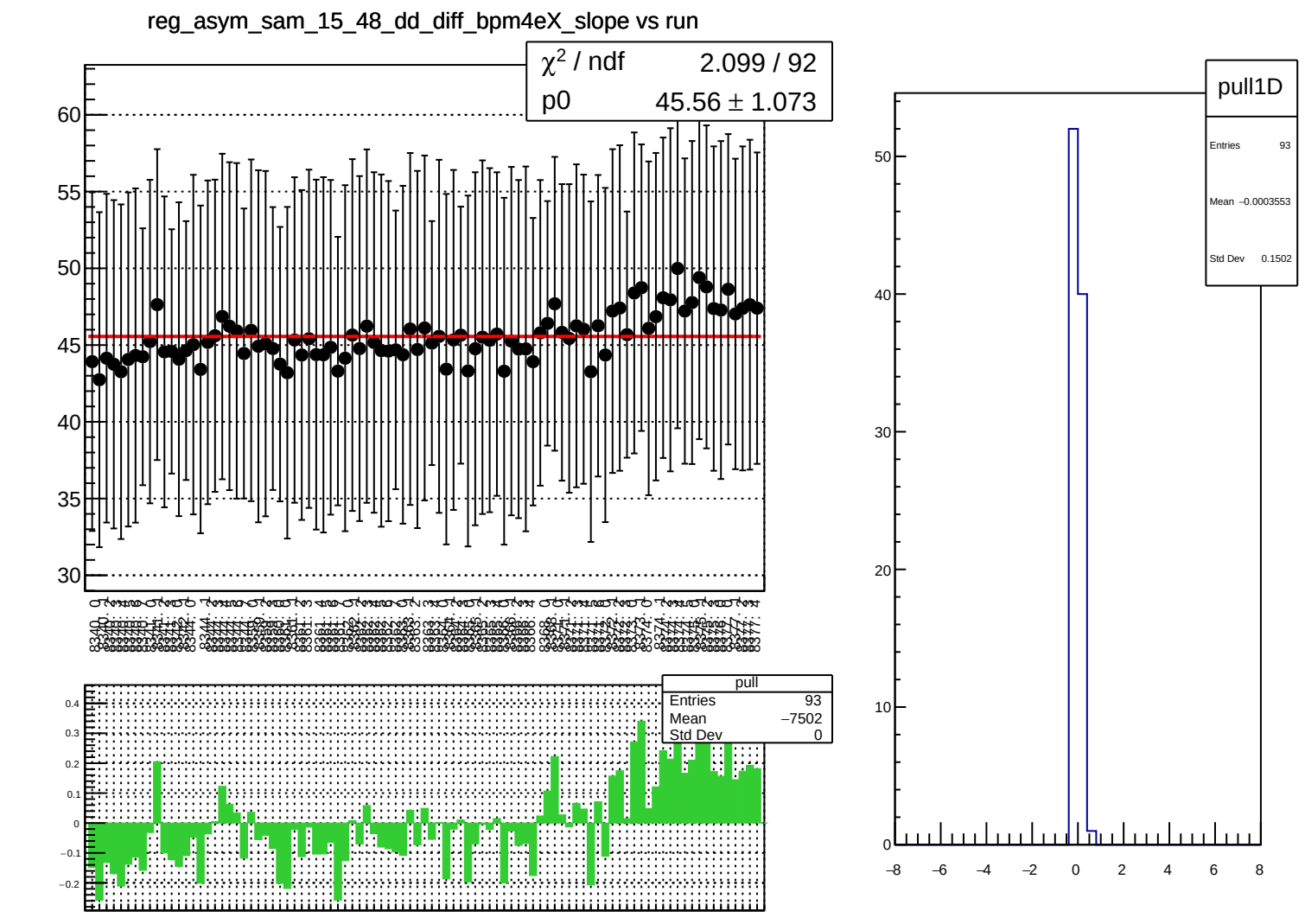

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.564 / 92
p0 −5.357 ± 2.733
pull
Entries 93
Mean 353.7
Std Dev 0
pull1D
Entries 93
Mean −0.001222
Std Dev 0.1297

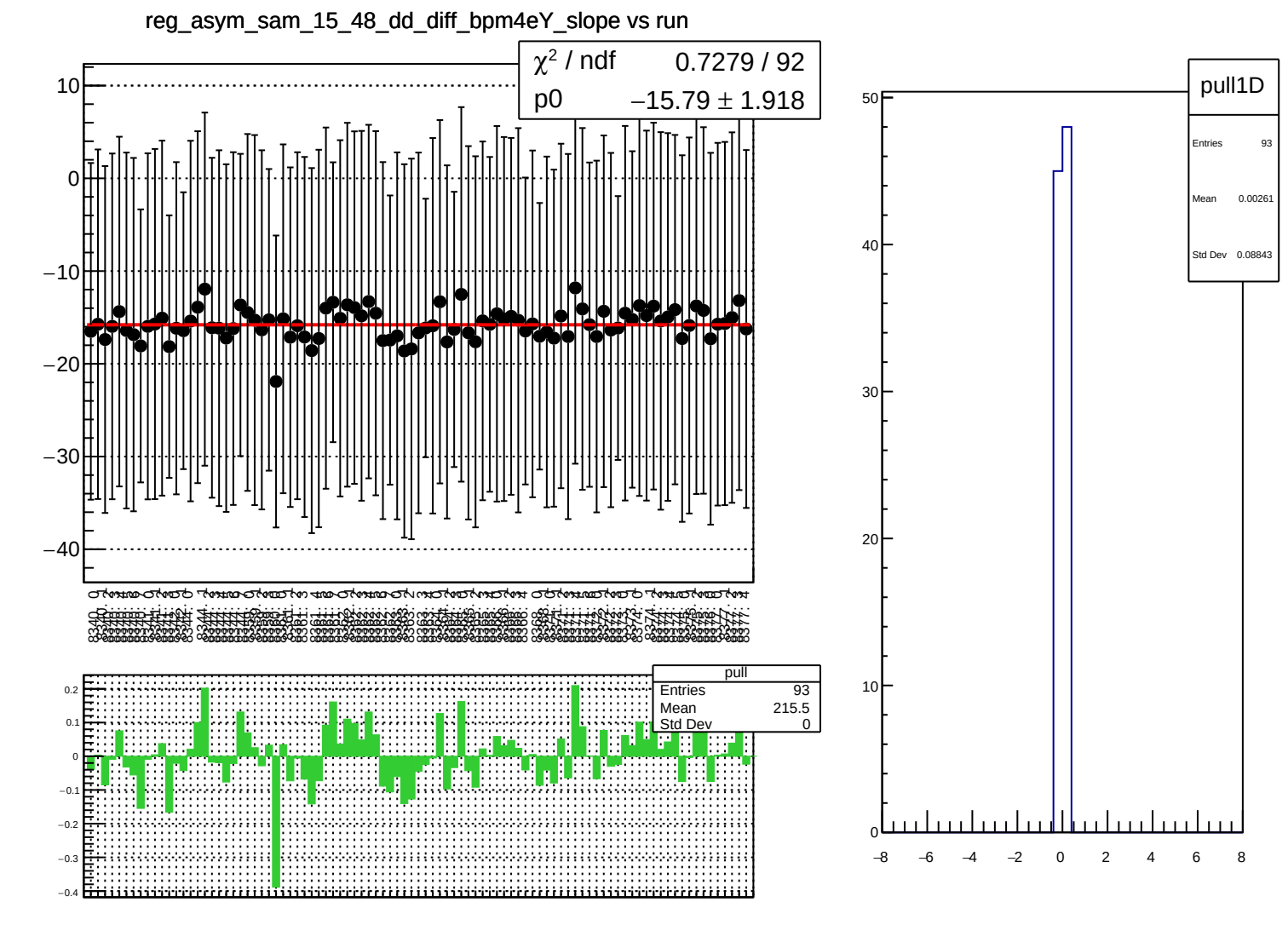

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.12 / 92
p0 2.269 ± 0.1637
pull
Entries 93
Mean 372.7
Std Dev 0
pull1D
Entries 93
Mean 0.00646
Std Dev 0.183

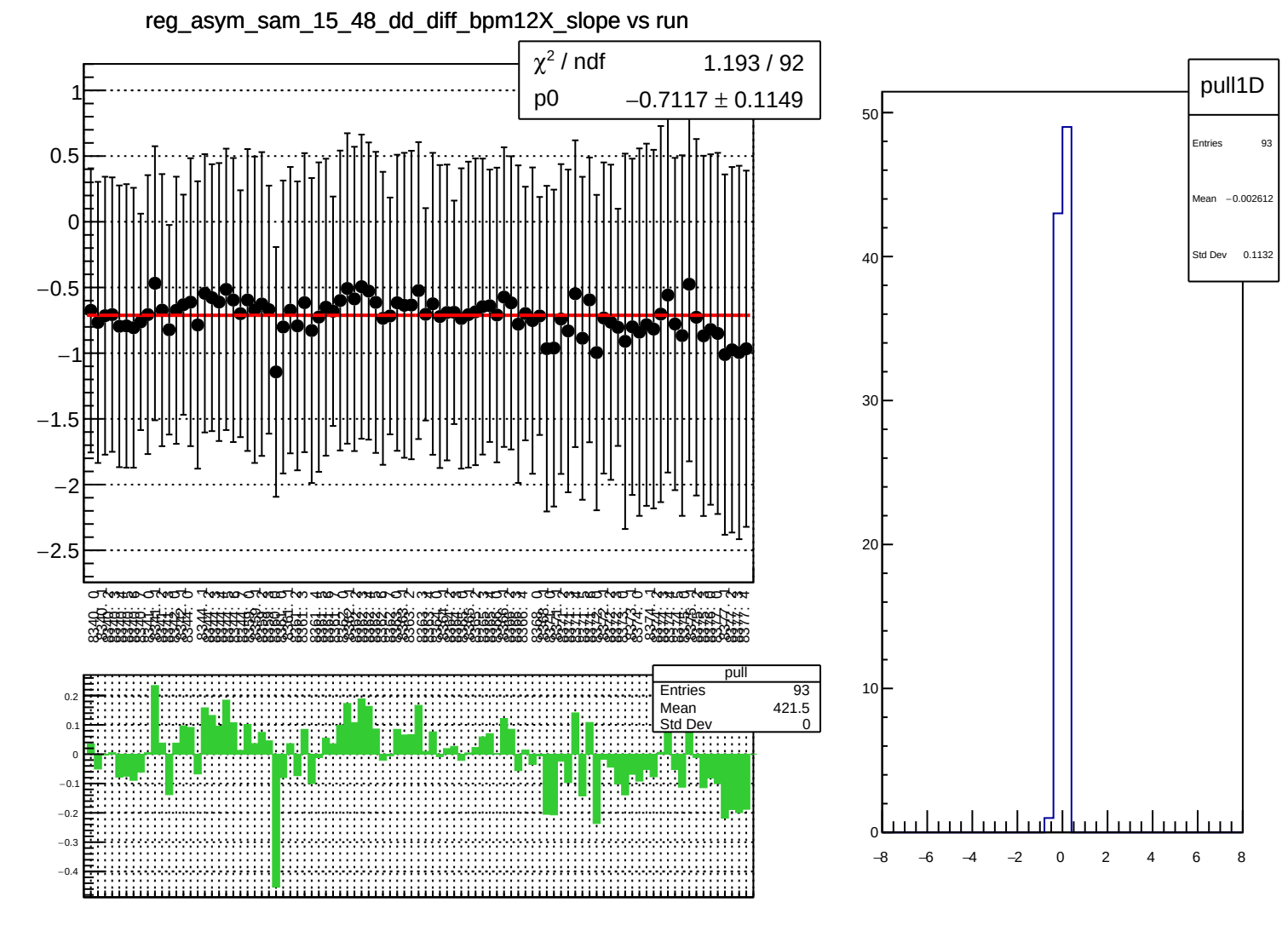

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.514 / 92
p0 3.274 ± 0.9338
pull
Entries 93
Mean −950.7
Std Dev 0

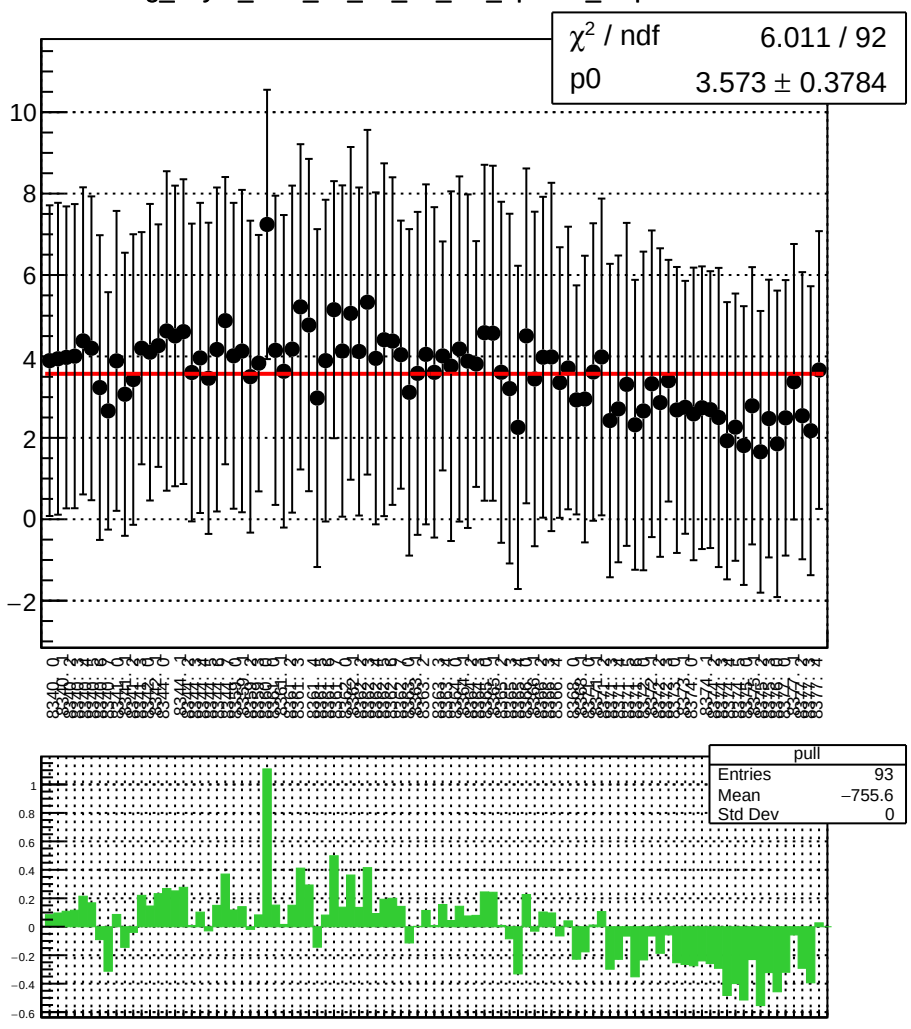

pull1D
Entries 93
Mean 0.003583
Std Dev 0.1943

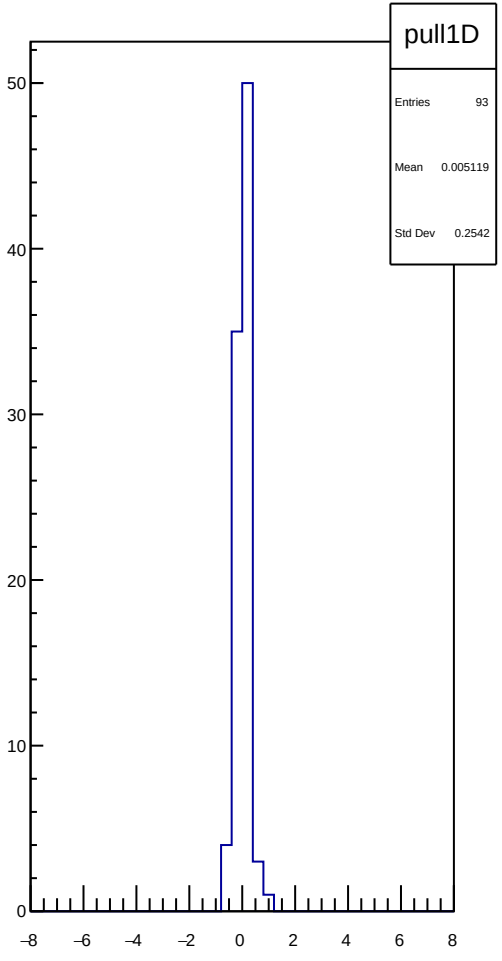

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.8052 / 92
p0 −12.96 ± 1.857
pull
Entries 93
Mean 144.2
Std Dev 0
pull1D
Entries 93
Mean −0.002505
Std Dev 0.09302

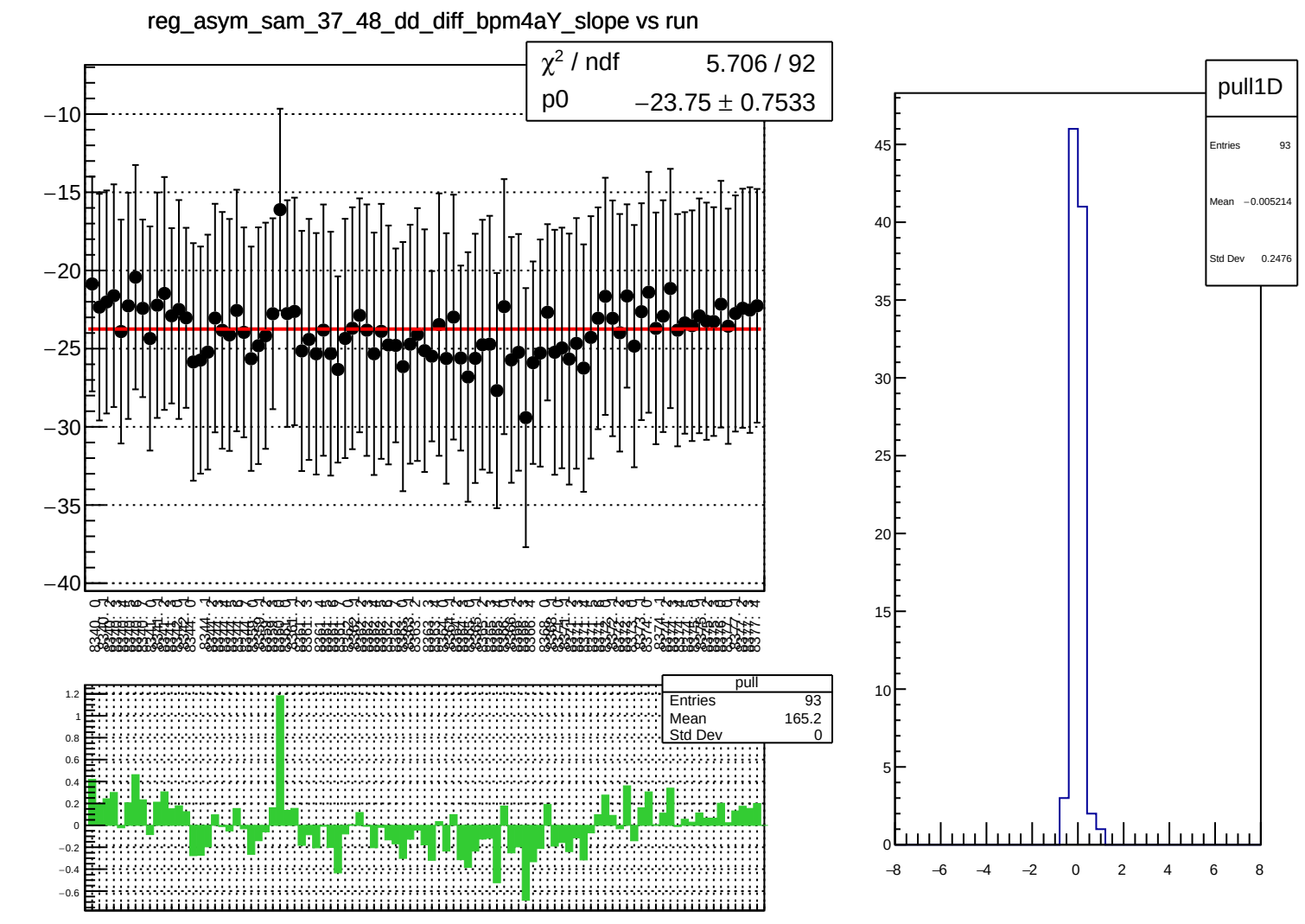

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.099 / 92
p0 45.56 ± 1.073
pull
Entries 93
Mean −7502
Std Dev 0
pull1D
Entries 93
Mean −0.0003553
Std Dev 0.1502

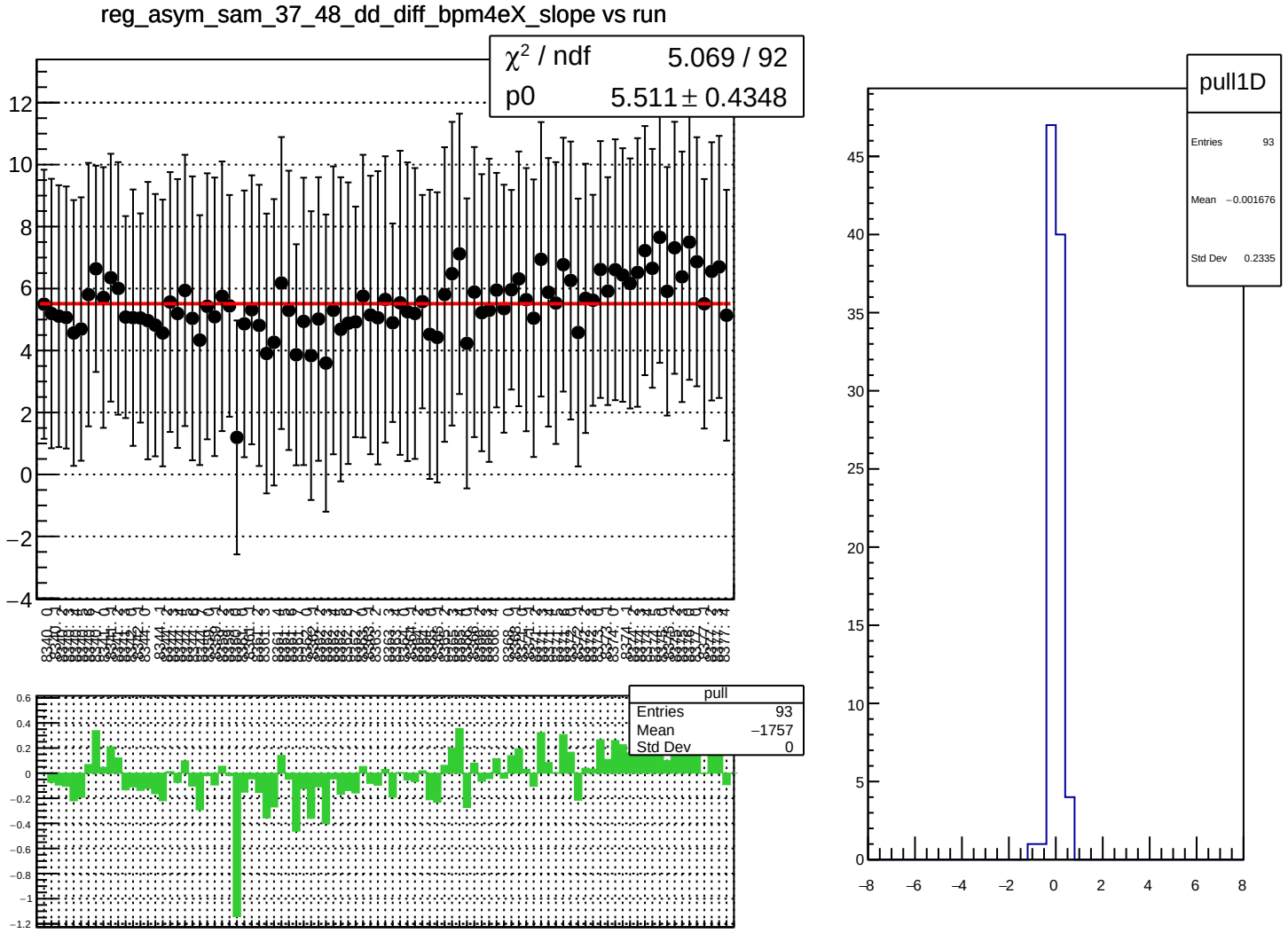

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 0.7279 / 92
p0 −15.79 ± 1.918
pull
Entries 93
Mean 215.5
Std Dev 0
pull1D
Entries 93
Mean 0.00261
Std Dev 0.08843

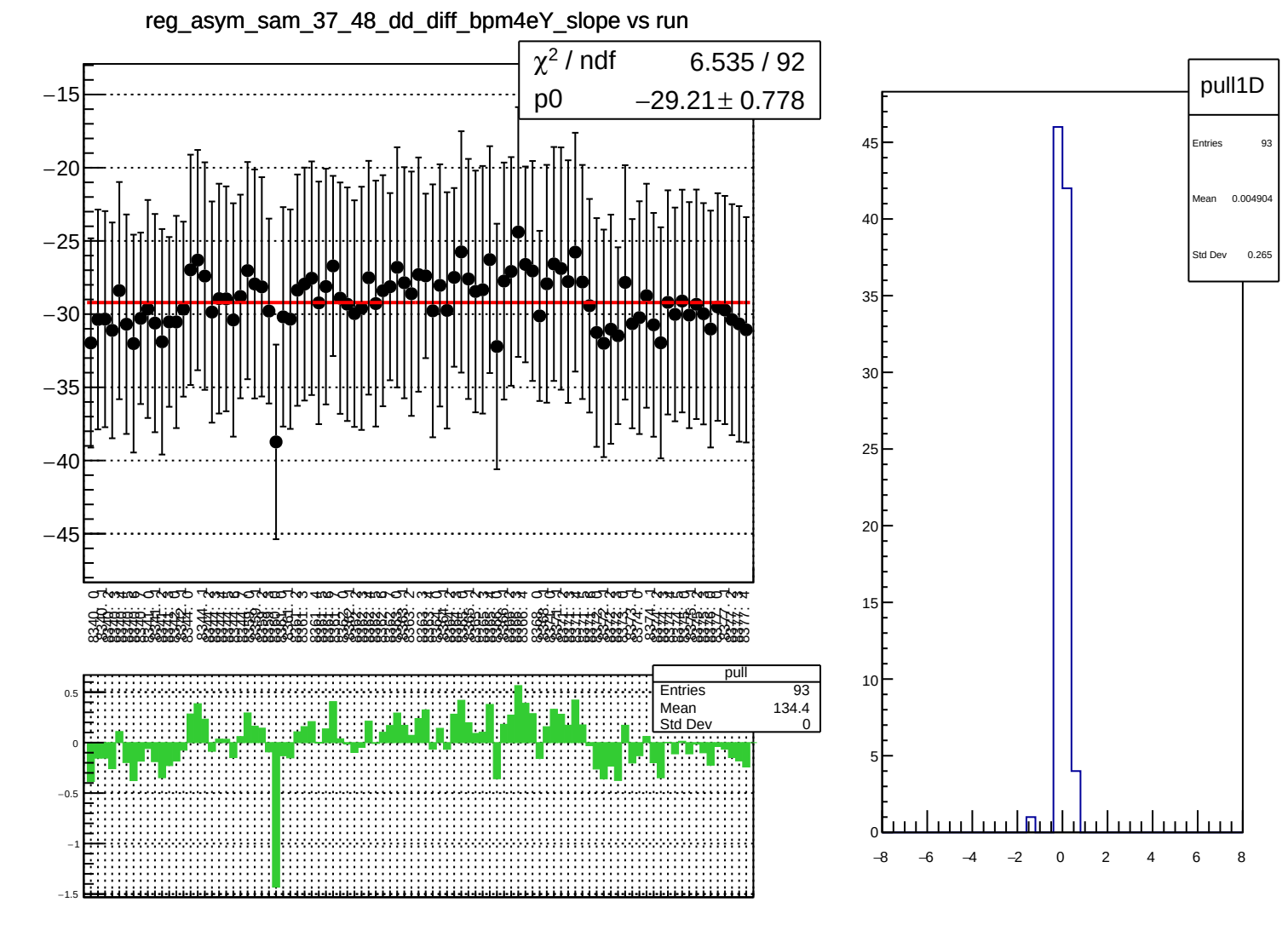

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.193 / 92
p0 −0.7117 ± 0.1149
pull
Entries 93
Mean 421.5
Std Dev 0
pull1D
Entries 93
Mean −0.002612
Std Dev 0.1132

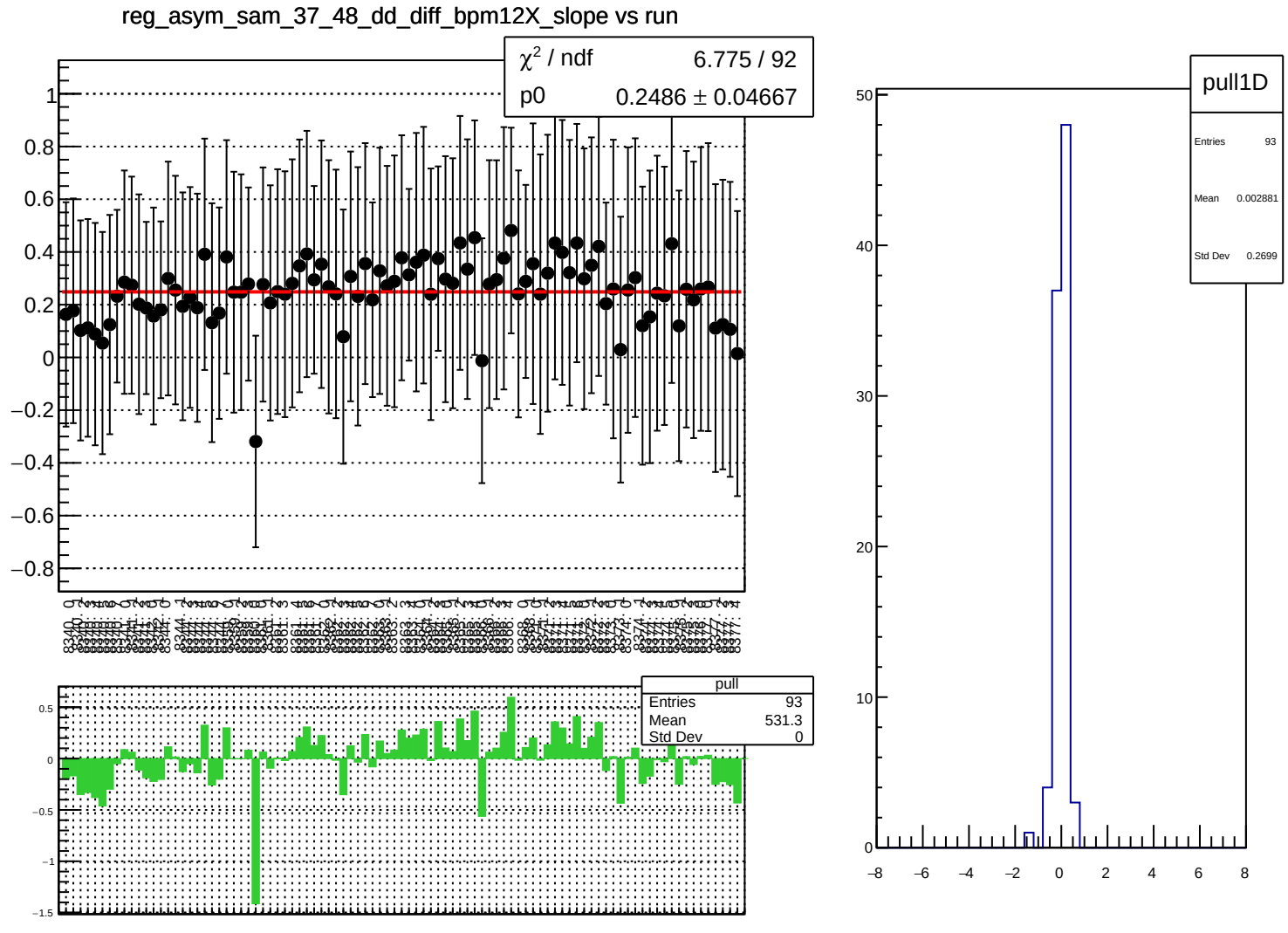

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.011 / 92
p0 3.573 ± 0.3784
pull
Entries 93
Mean −755.6
Std Dev 0

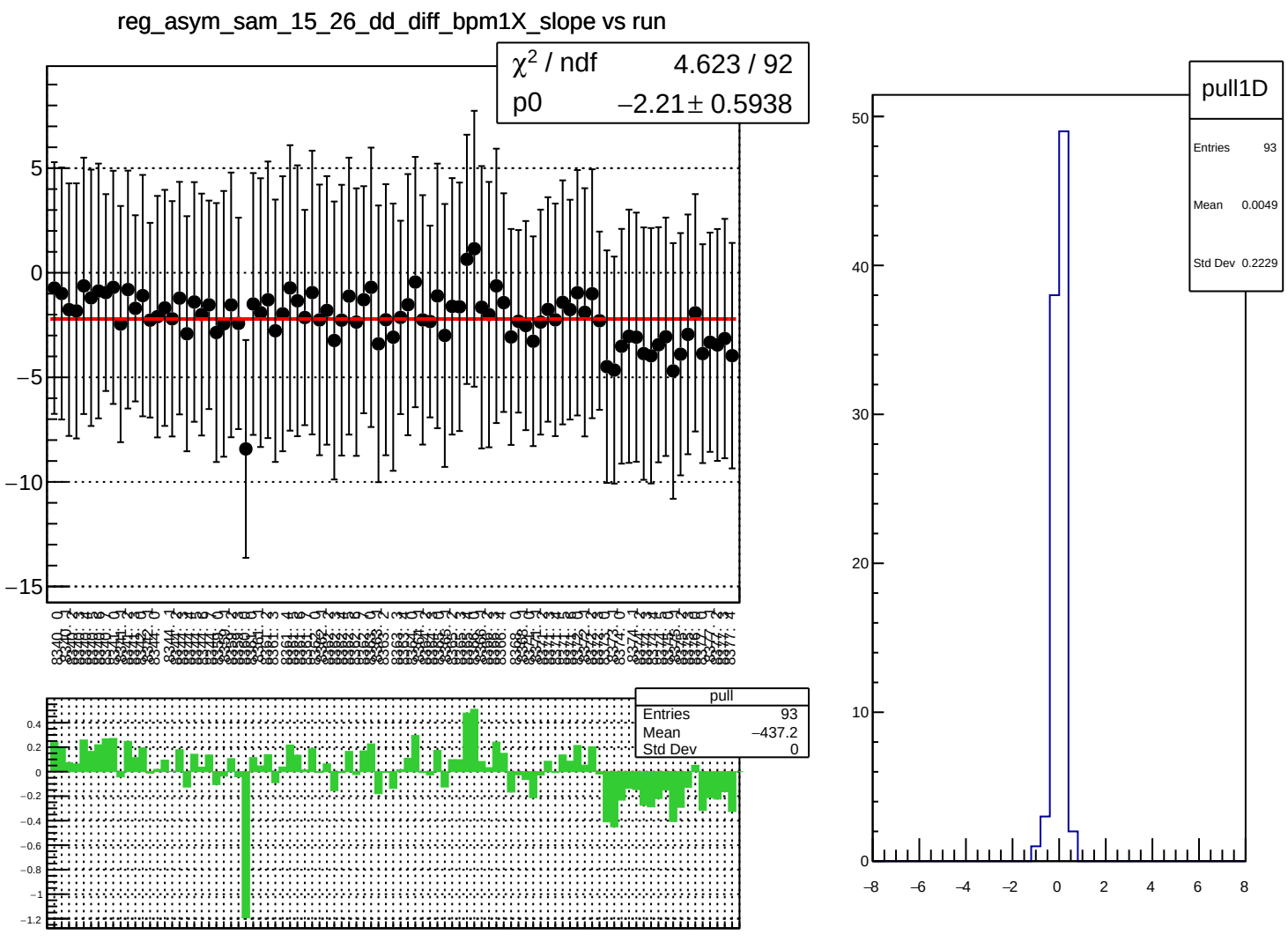

pull1D
Entries 93
Mean 0.005119
Std Dev 0.2542

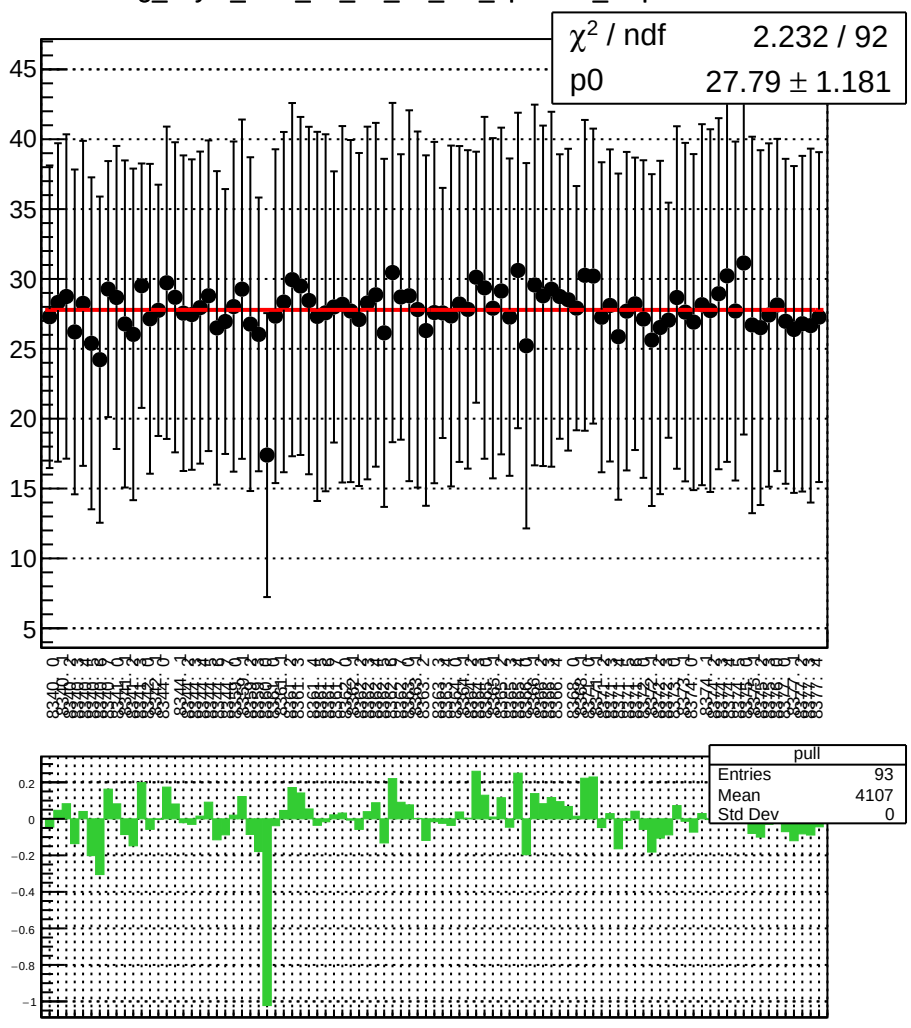

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.706 / 92
p0 −23.75 ± 0.7533
pull
Entries 93
Mean 165.2
Std Dev 0
pull1D
Entries 93
Mean −0.005214
Std Dev 0.2476

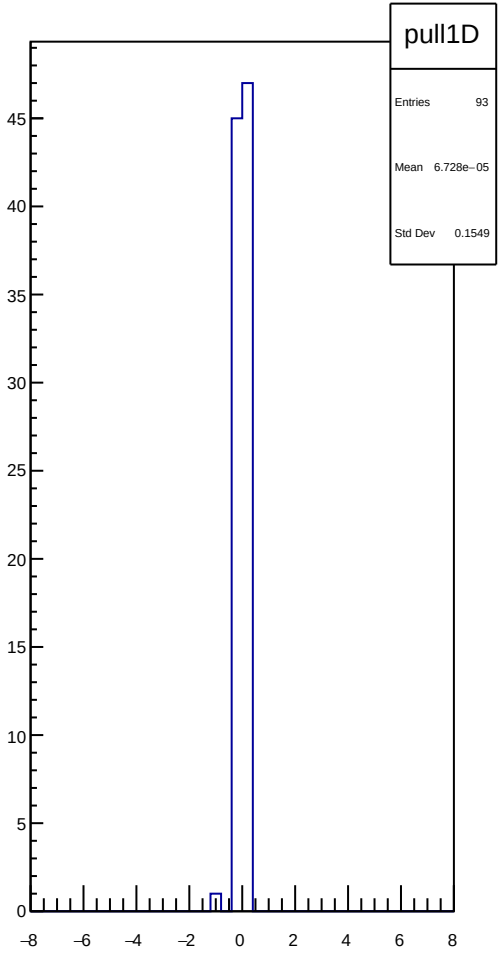

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.069 / 92
p0 5.511 ± 0.4348
pull
Entries 93
Mean −1757
Std Dev 0
pull1D
Entries 93
Mean −0.001676
Std Dev 0.2335

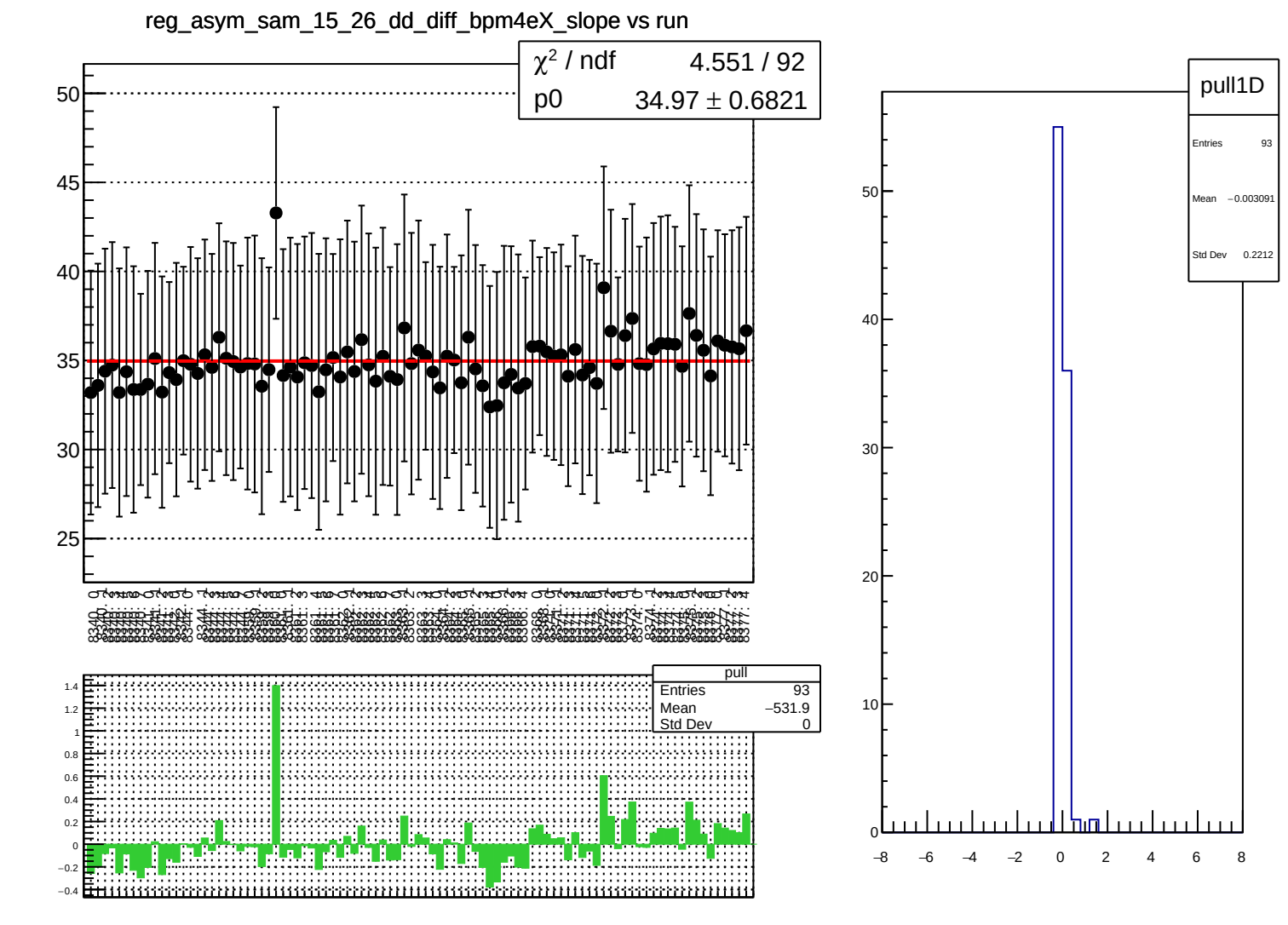

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.535 / 92
p0 −29.21 ± 0.778
pull
Entries 93
Mean 134.4
Std Dev 0
pull1D
Entries 93
Mean 0.004904
Std Dev 0.265

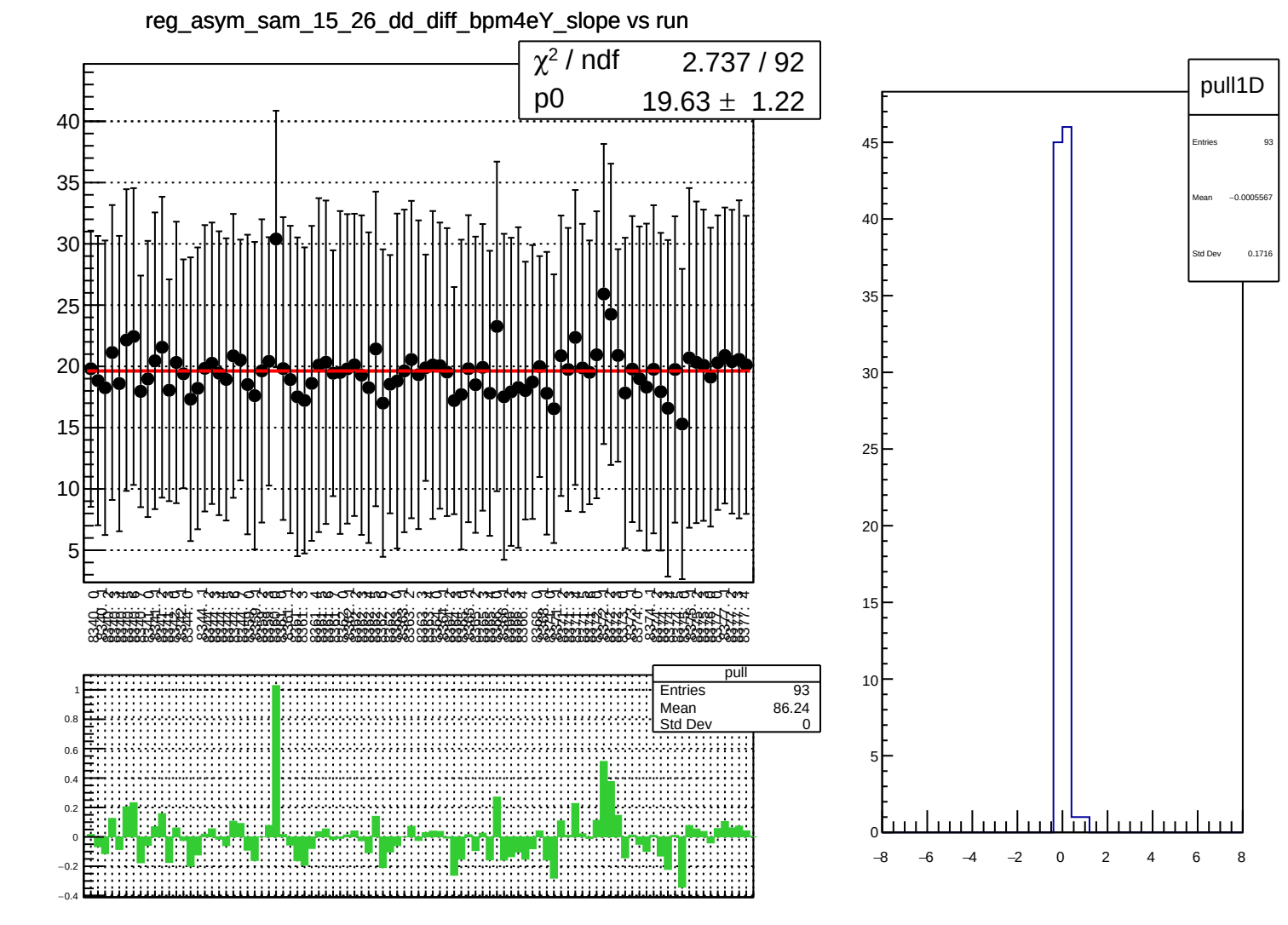

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.775 / 92
p0 0.2486 ± 0.04667
pull
Entries 93
Mean 531.3
Std Dev 0
pull1D
Entries 93
Mean 0.002881
Std Dev 0.2699

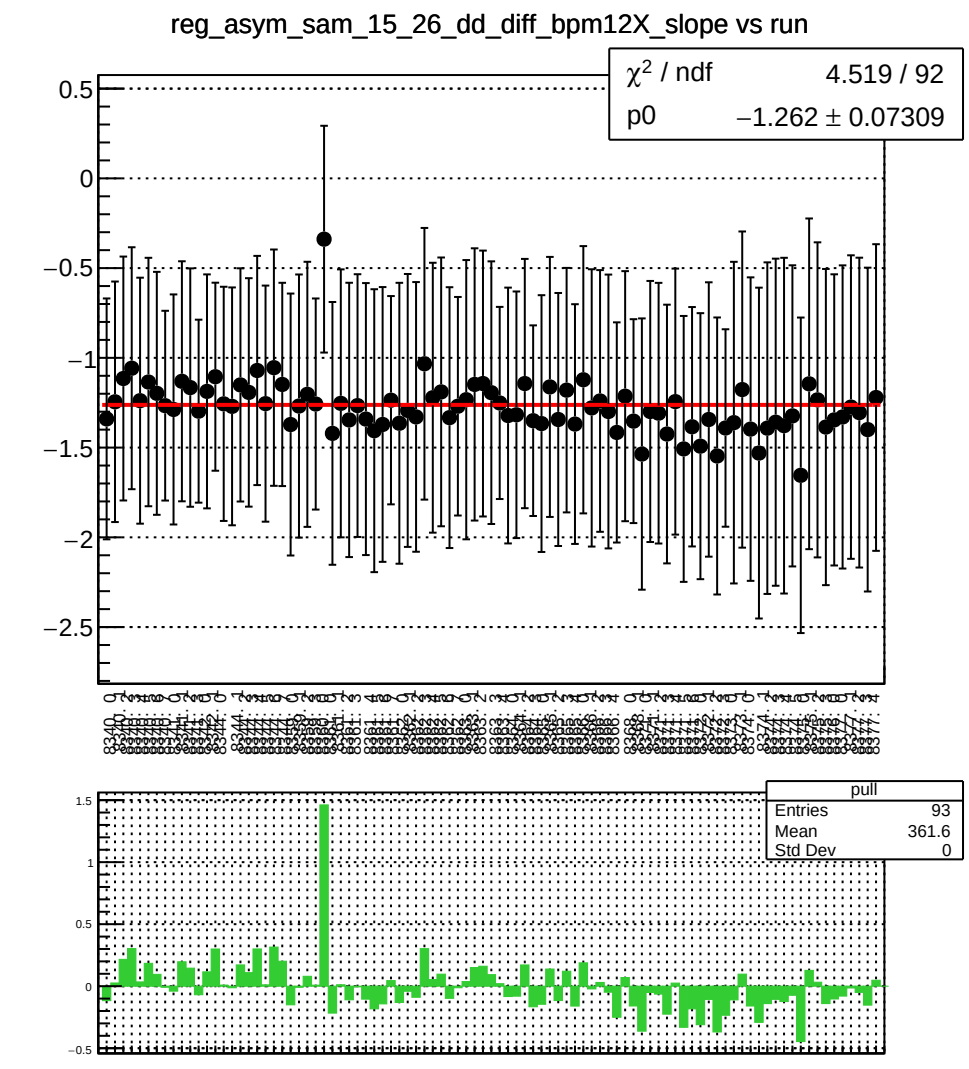

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.623 / 92
p0 −2.21 ± 0.5938
pull
Entries 93
Mean −437.2
Std Dev 0
pull1D
Entries 93
Mean 0.0049
Std Dev 0.2229

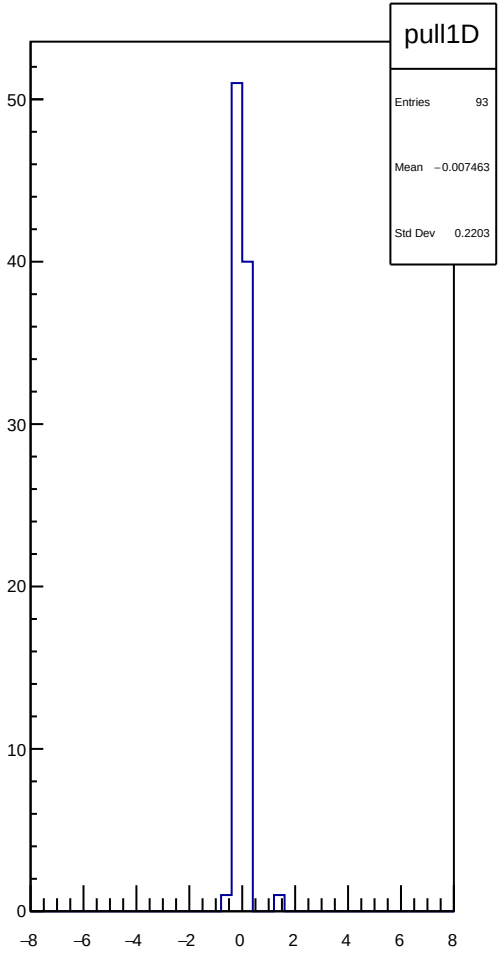

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.232 / 92
p0 27.79 ± 1.181
pull
Entries 93
Mean 4107
Std Dev 0

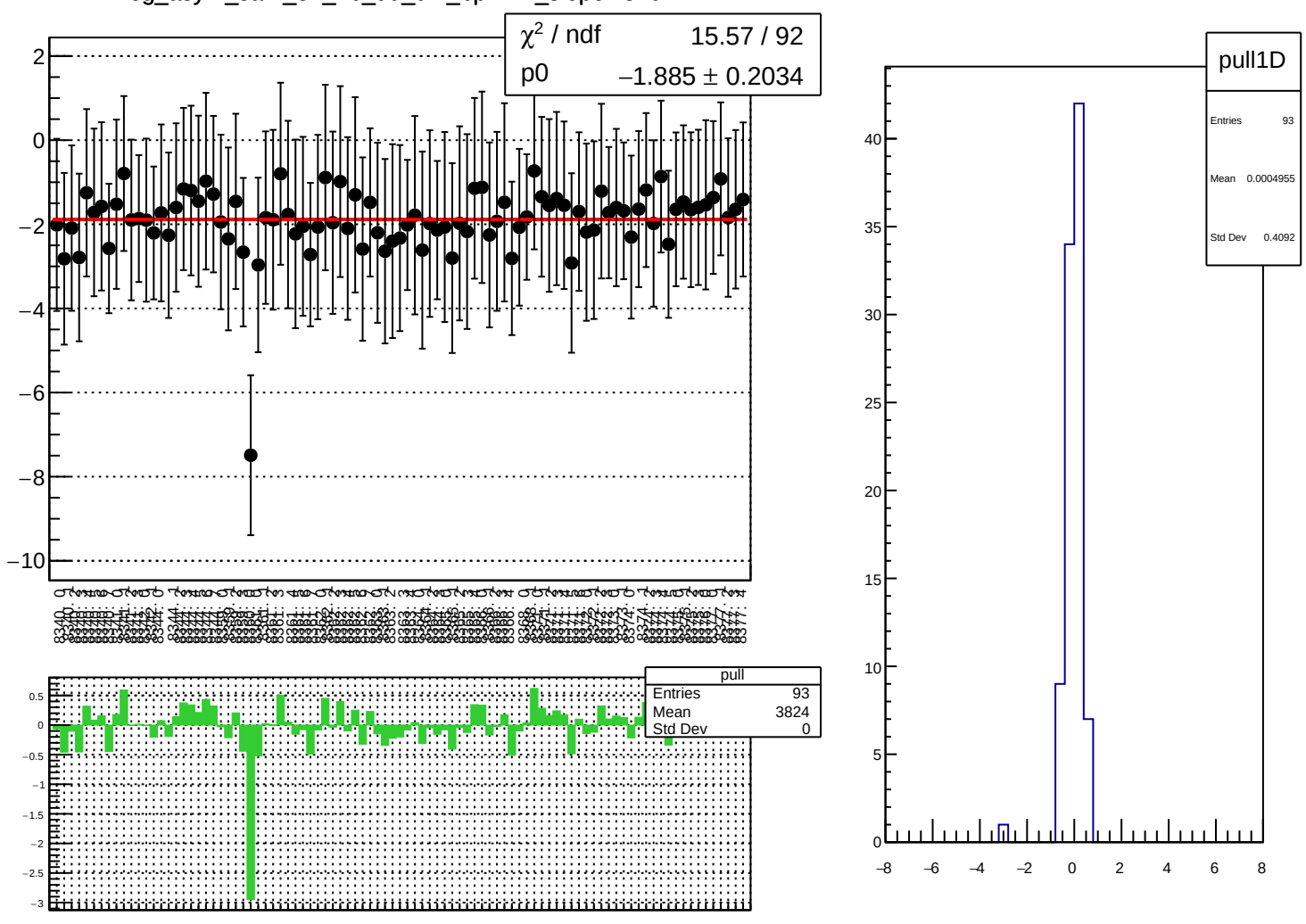

pull1D
Entries 93
Mean 6.728e−05
Std Dev 0.1549

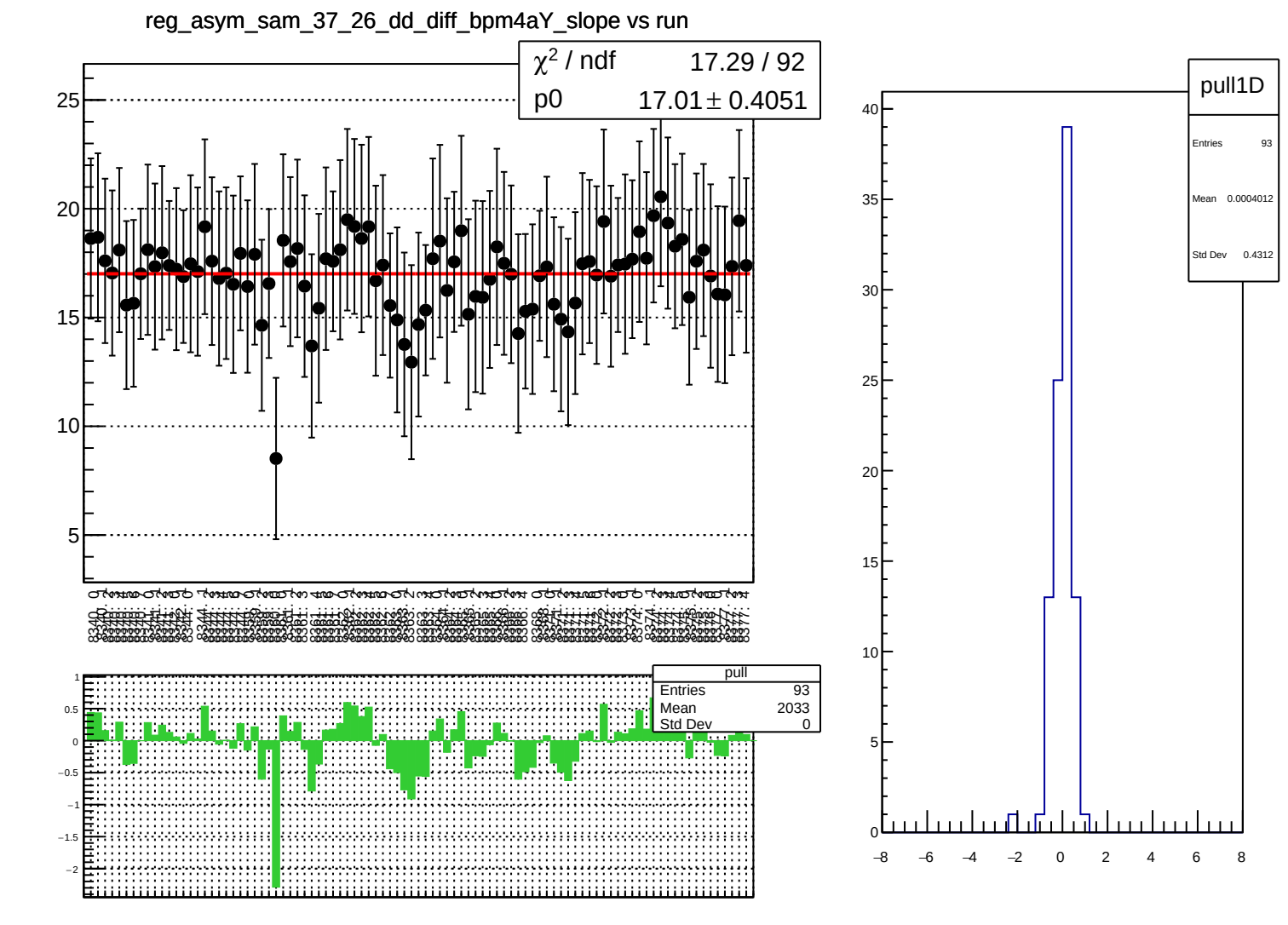

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.551 / 92
p0 34.97 ± 0.6821
pull
Entries 93
Mean −531.9
Std Dev 0
pull1D
Entries 93
Mean −0.003091
Std Dev 0.2212

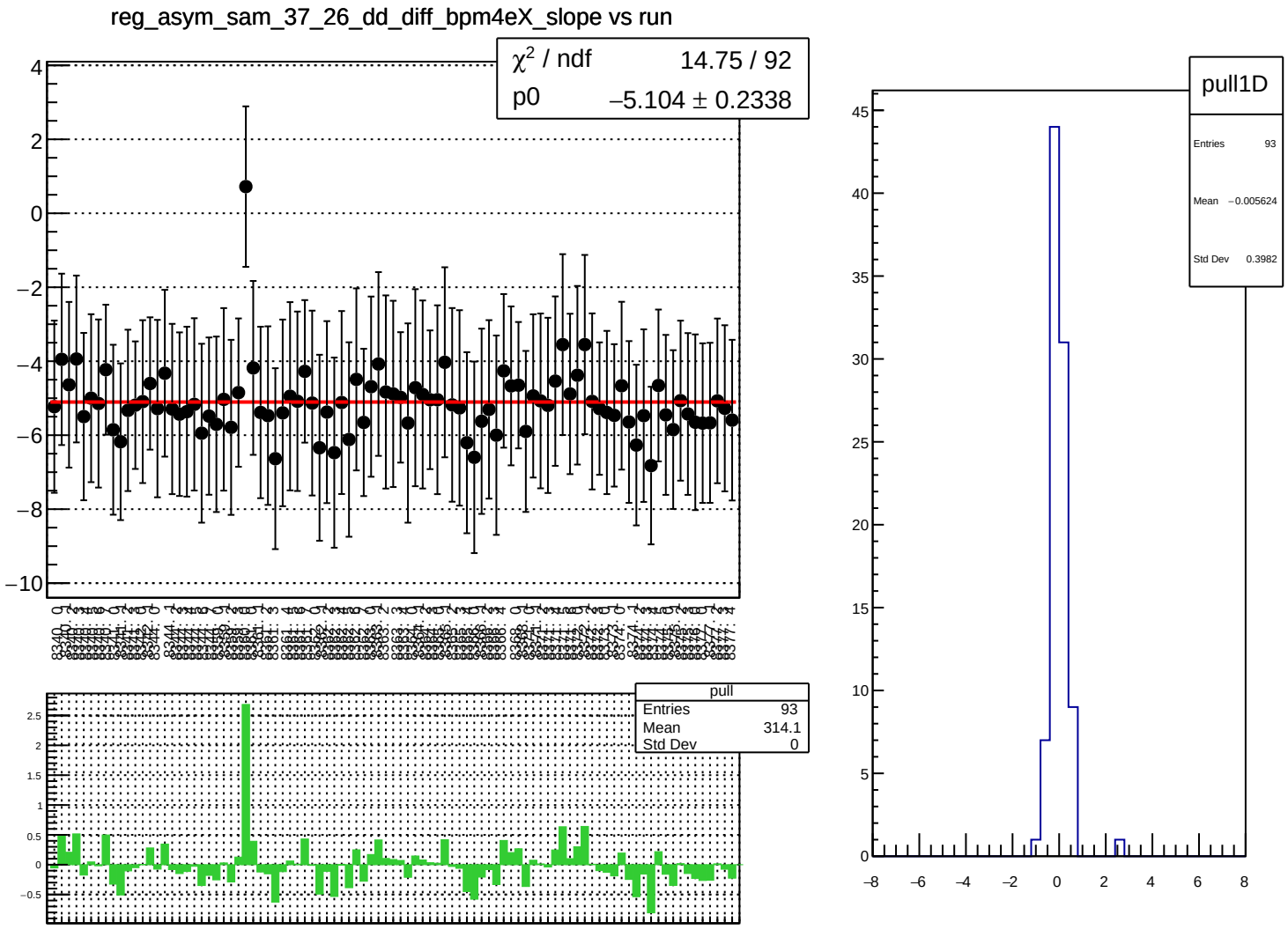

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.737 / 92
p0 19.63 ± 1.22
pull
Entries 93
Mean 86.24
Std Dev 0
pull1D
Entries 93
Mean −0.0005567
Std Dev 0.1716

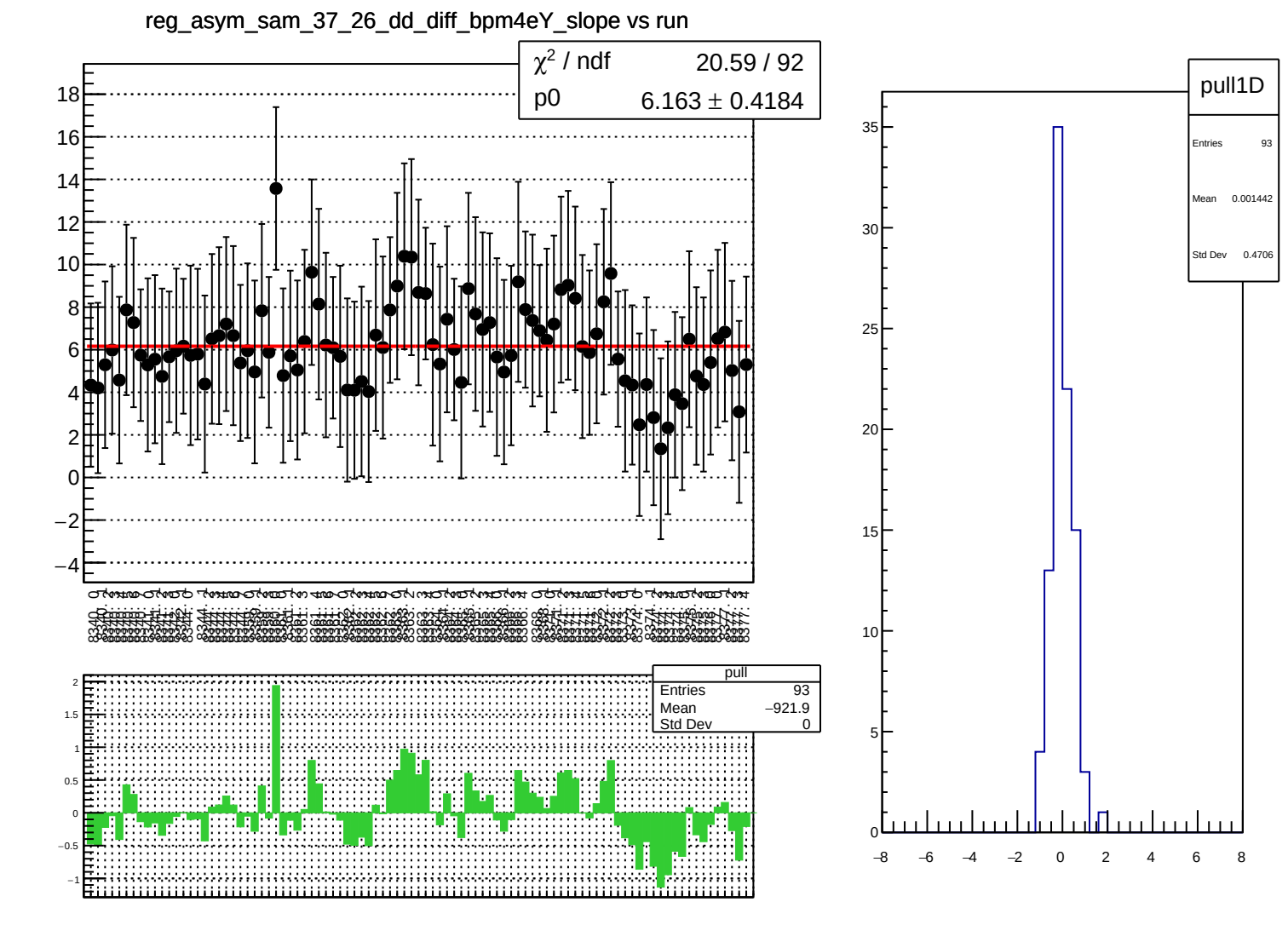

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.519 / 92
p0 −1.262 ± 0.07309
pull
Entries 93
Mean 361.6
Std Dev 0

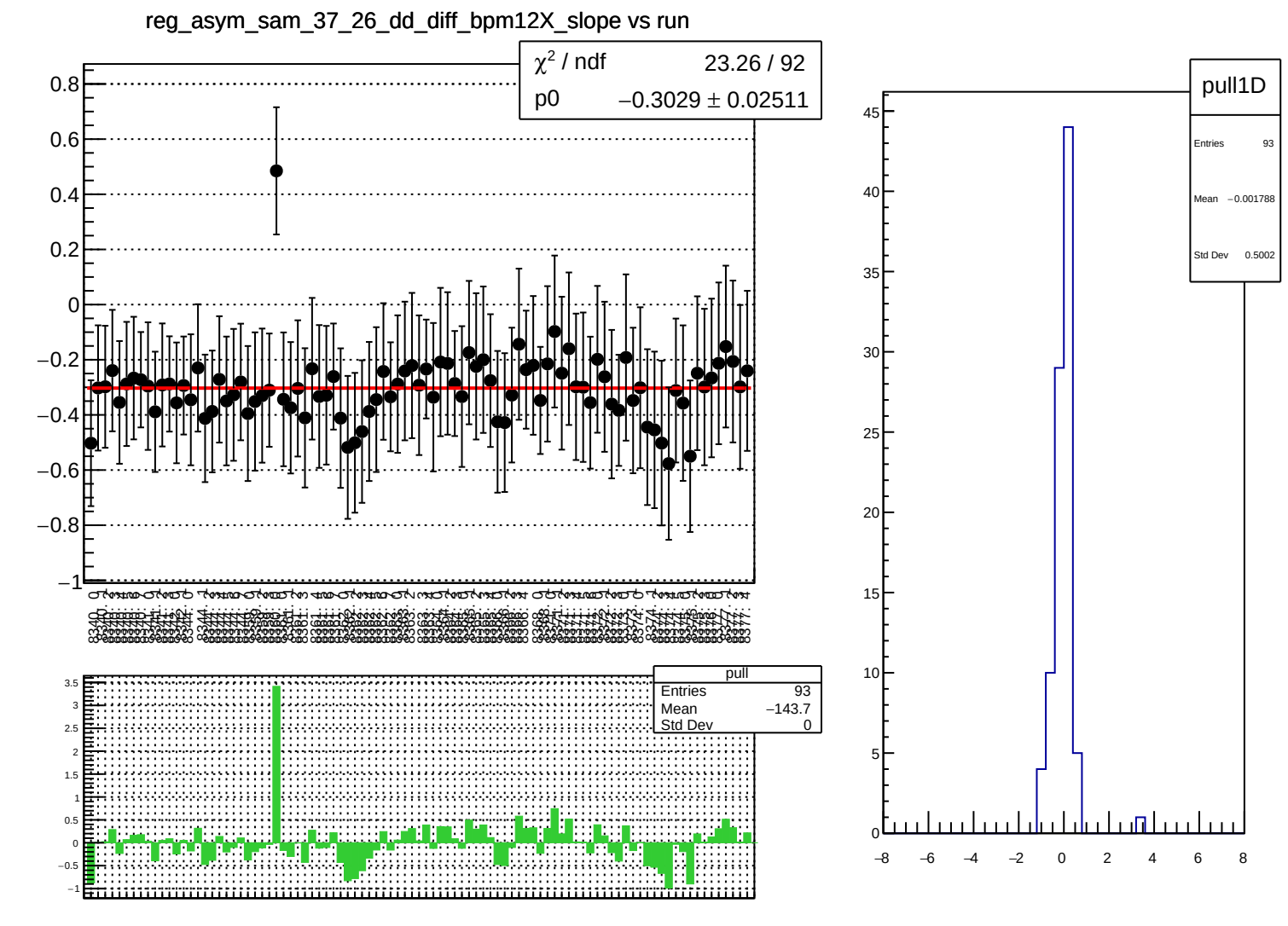

pull1D
Entries 93
Mean −0.007463
Std Dev 0.2203

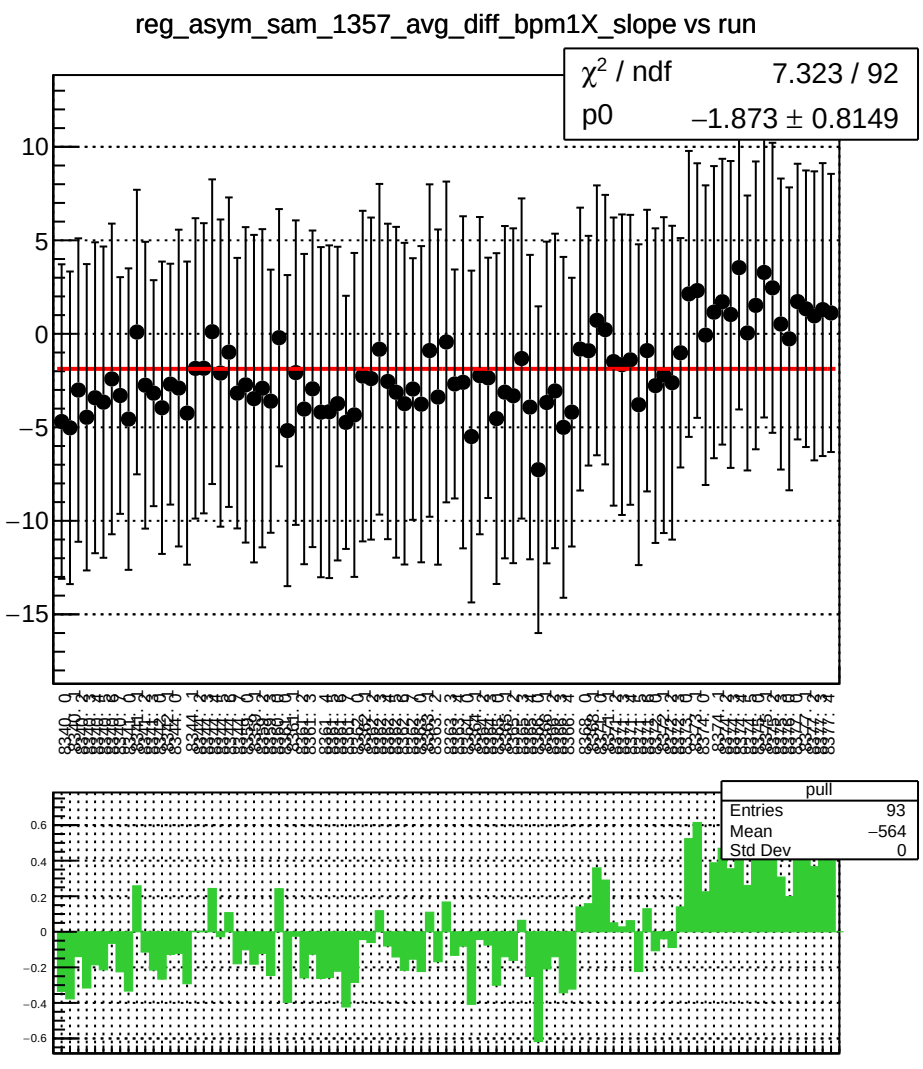

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 15.57 / 92
p0 −1.885 ± 0.2034
pull
Entries 93
Mean 3824
Std Dev 0
pull1D
Entries 93
Mean 0.0004955
Std Dev 0.4092

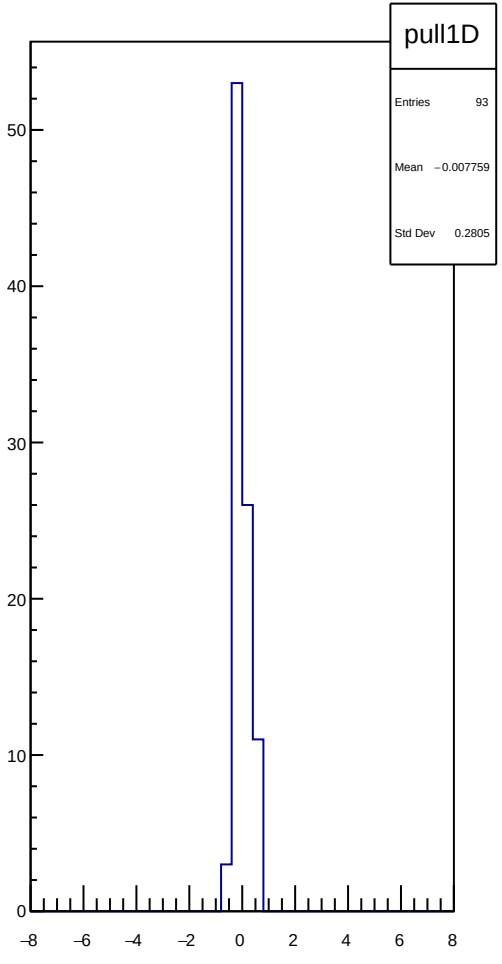

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.29 / 92
p0 17.01 ± 0.4051
pull
Entries 93
Mean 2033
Std Dev 0
pull1D
Entries 93
Mean 0.0004012
Std Dev 0.4312

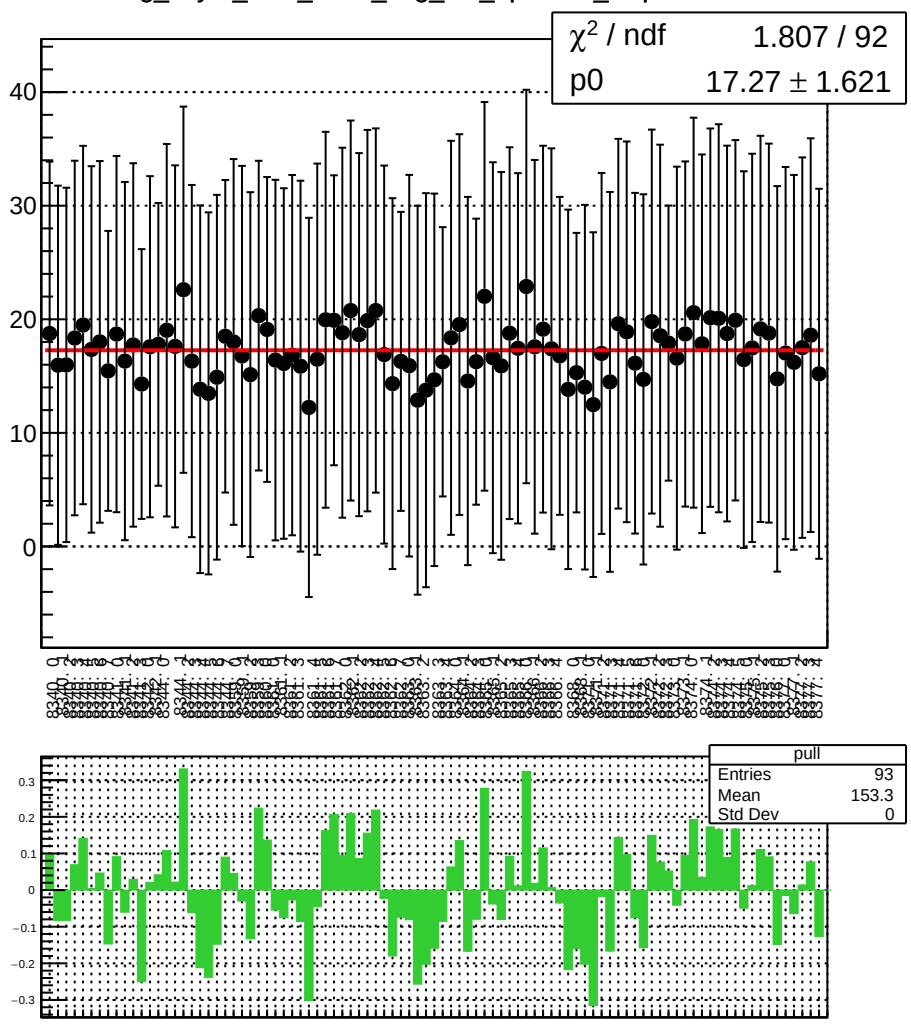

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.75 / 92
p0 −5.104 ± 0.2338
pull
Entries 93
Mean 314.1
Std Dev 0
pull1D
Entries 93
Mean −0.005624
Std Dev 0.3982

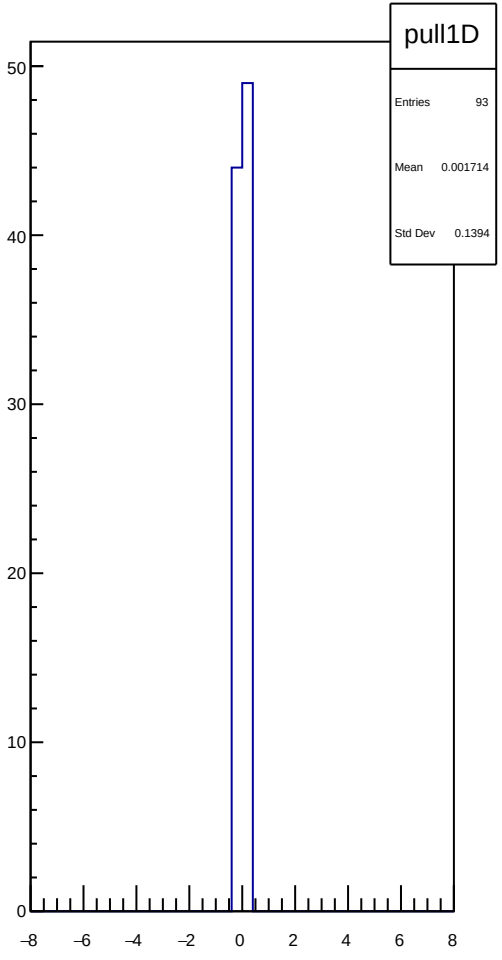

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.59 / 92
p0 6.163 ± 0.4184
pull
Entries 93
Mean −921.9
Std Dev 0
pull1D
Entries 93
Mean 0.001442
Std Dev 0.4706

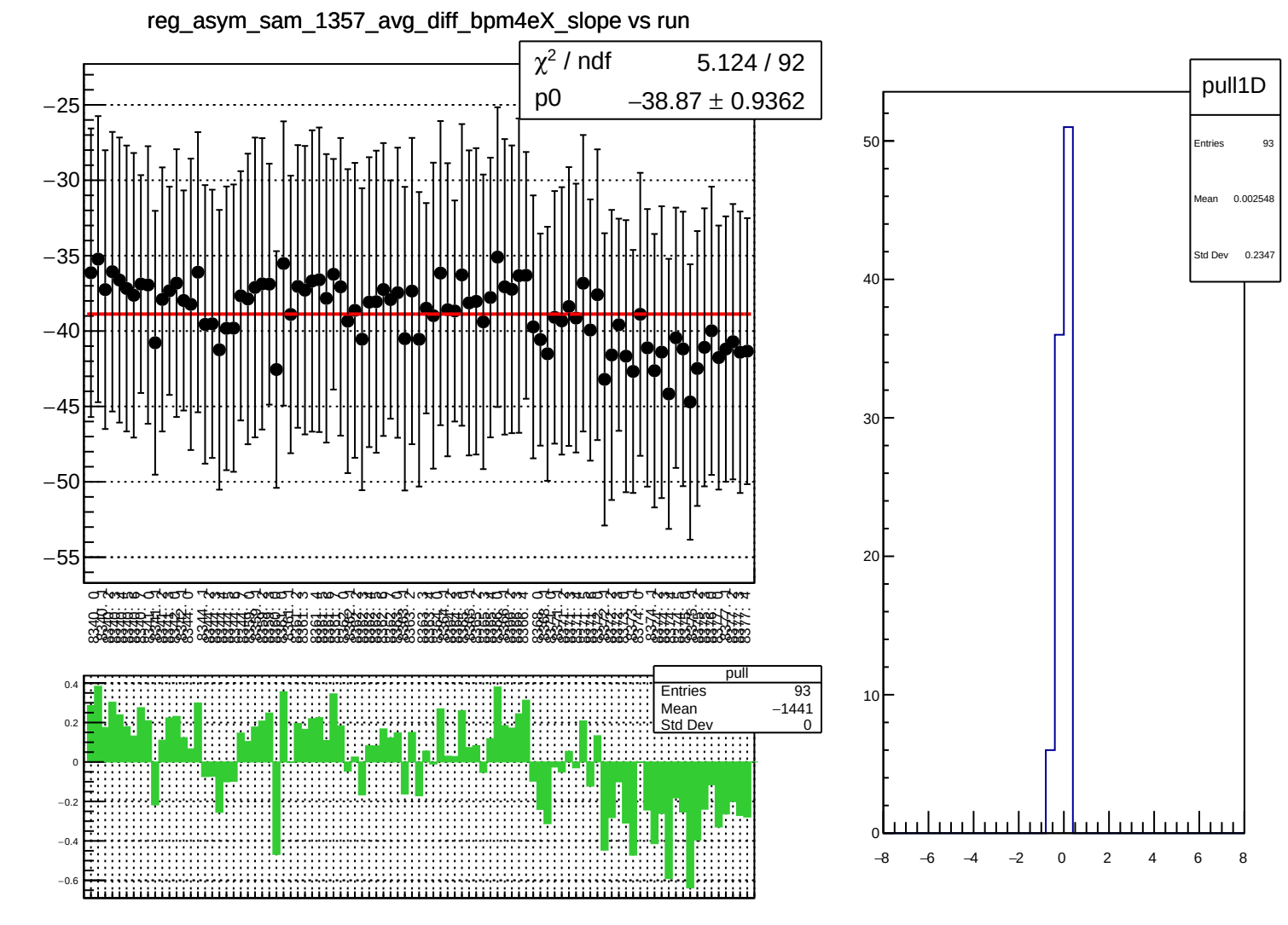

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 23.26 / 92
p0 −0.3029 ± 0.02511
pull
Entries 93
Mean −143.7
Std Dev 0
pull1D
Entries 93
Mean −0.001788
Std Dev 0.5002

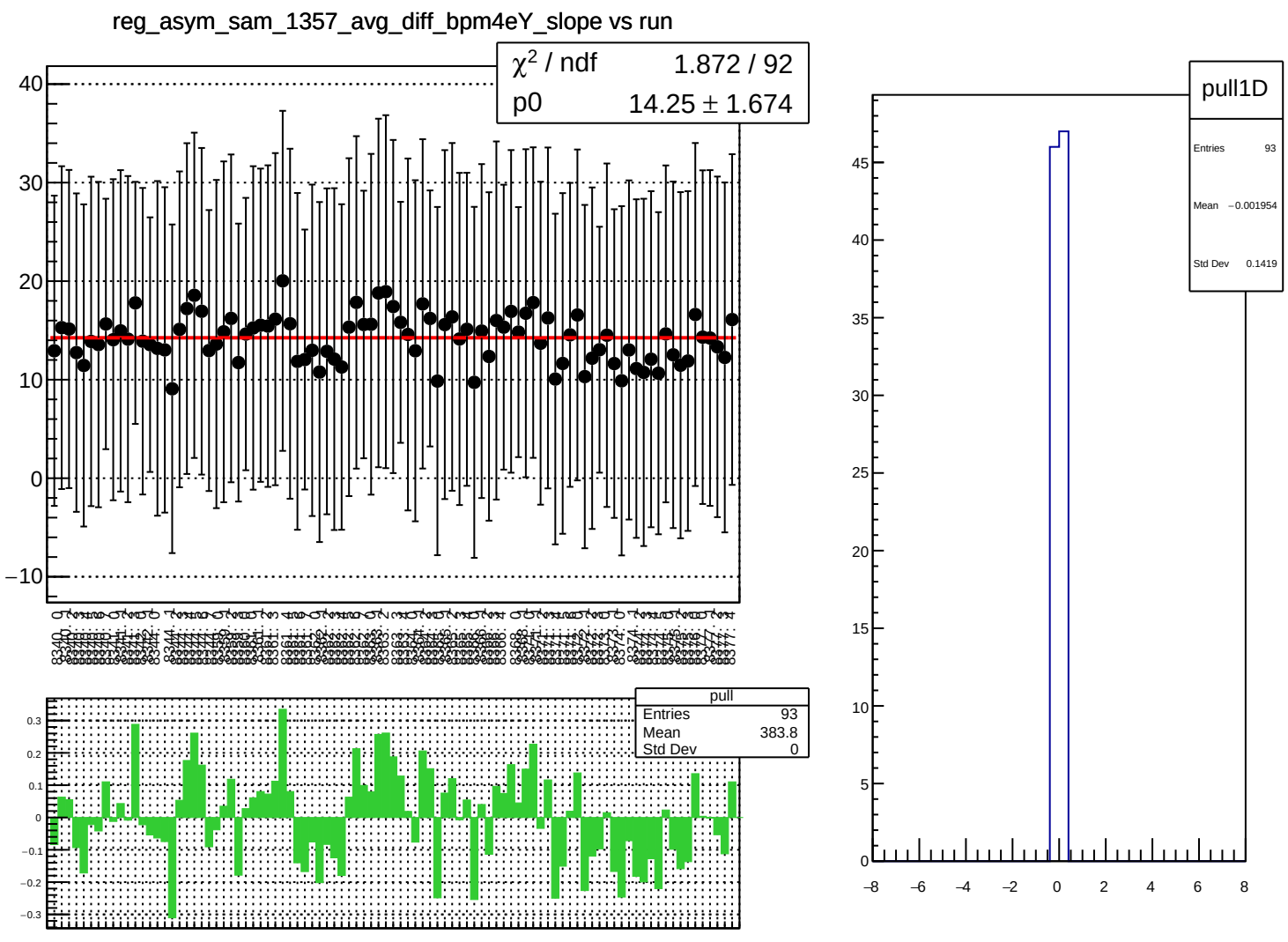

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 7.323 / 92
p0 −1.873 ± 0.8149
pull
Entries 93
Mean −564
Std Dev 0

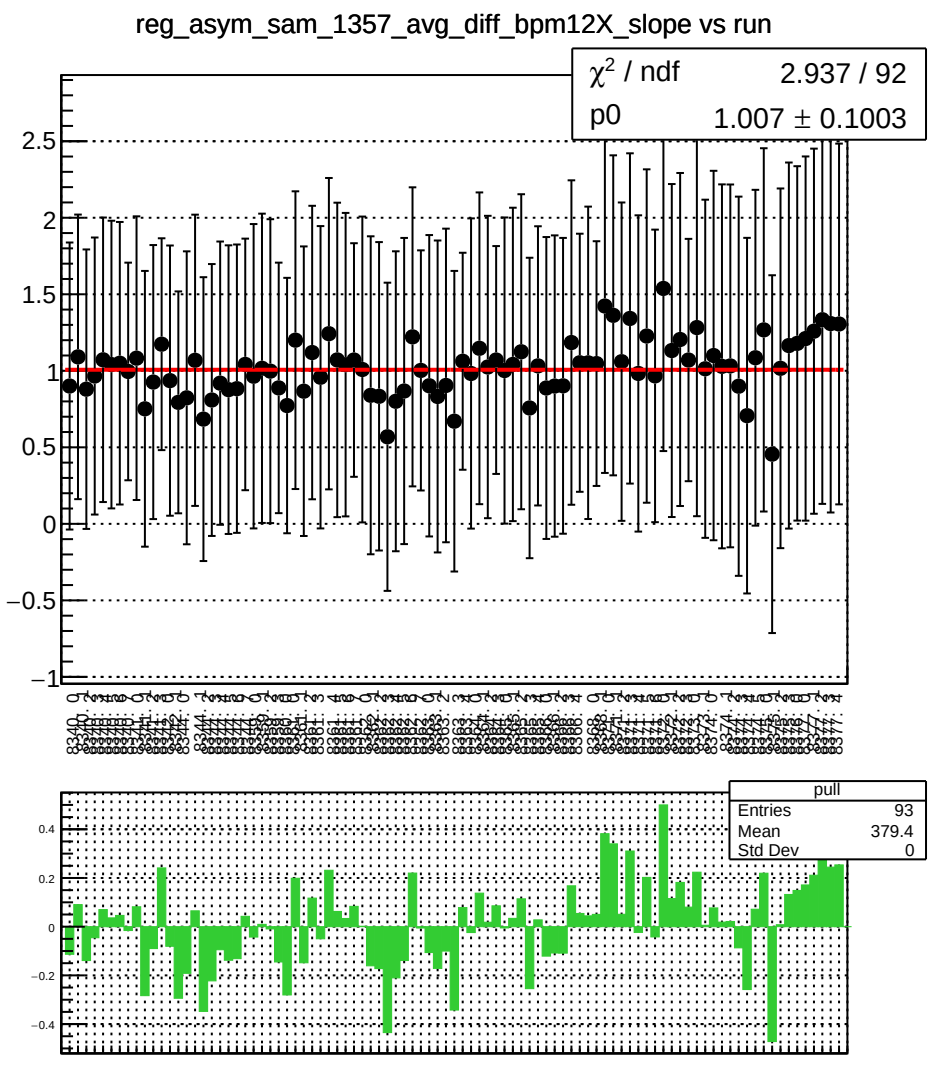

pull1D
Entries 93
Mean −0.007759
Std Dev 0.2805

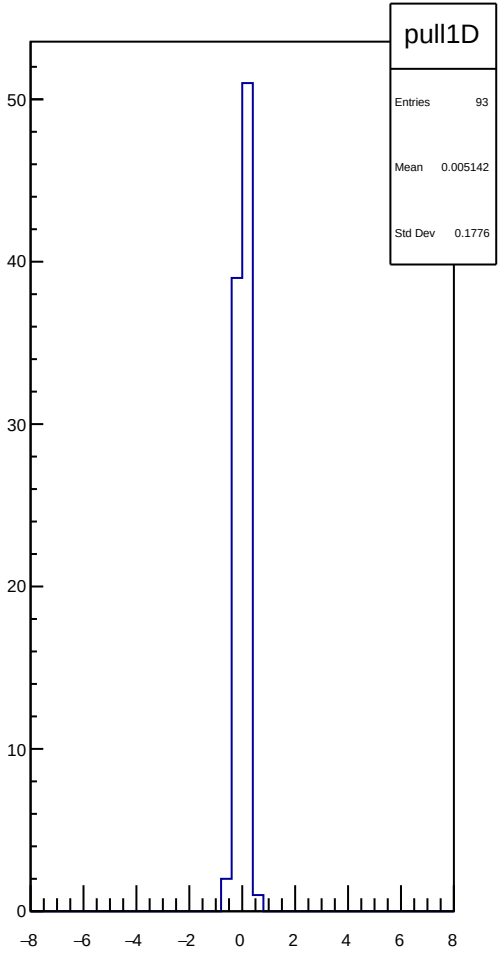

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.807 / 92
p0 17.27 ± 1.621
pull
Entries 93
Mean 153.3
Std Dev 0

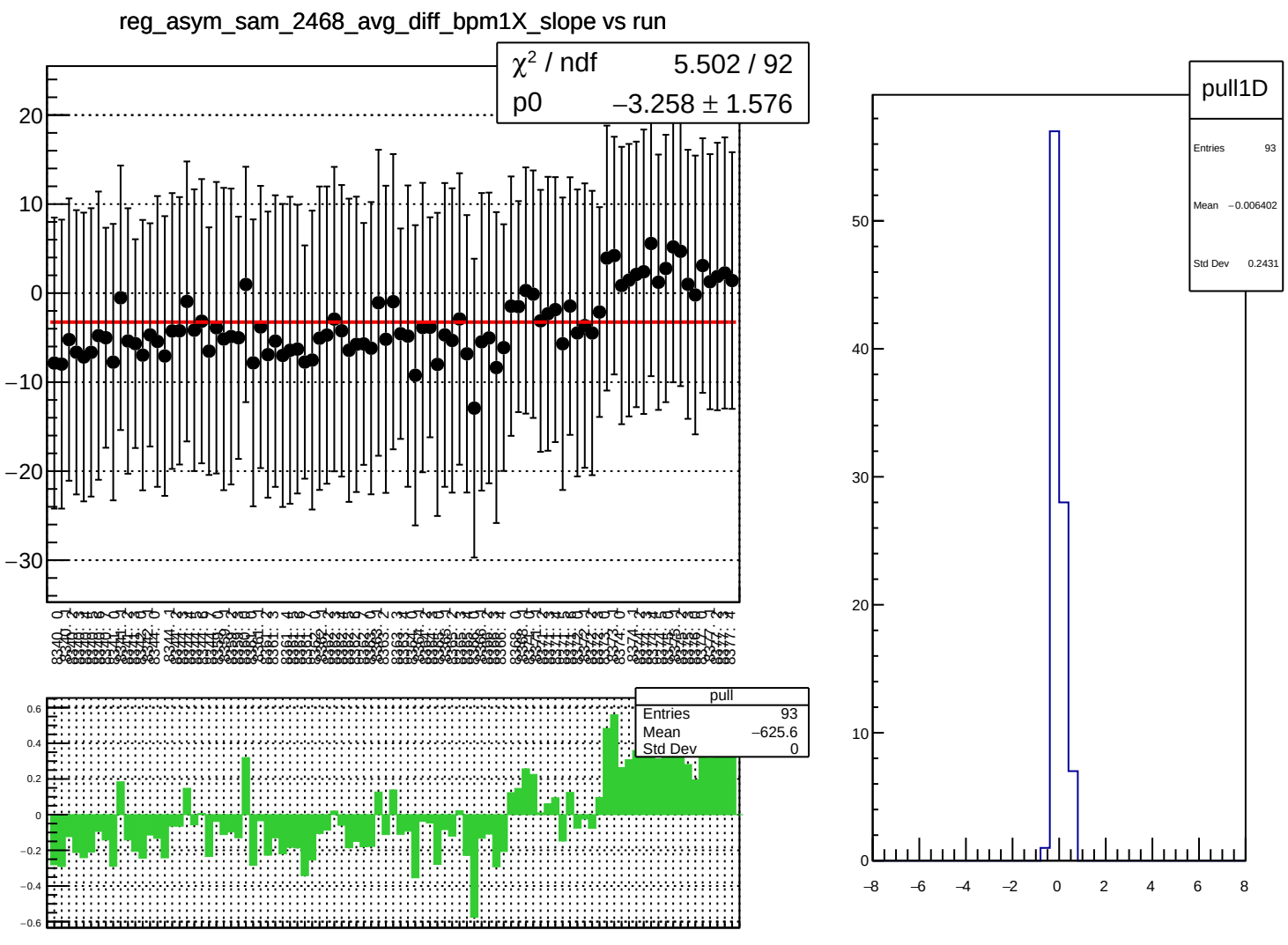

pull1D
Entries 93
Mean 0.001714
Std Dev 0.1394

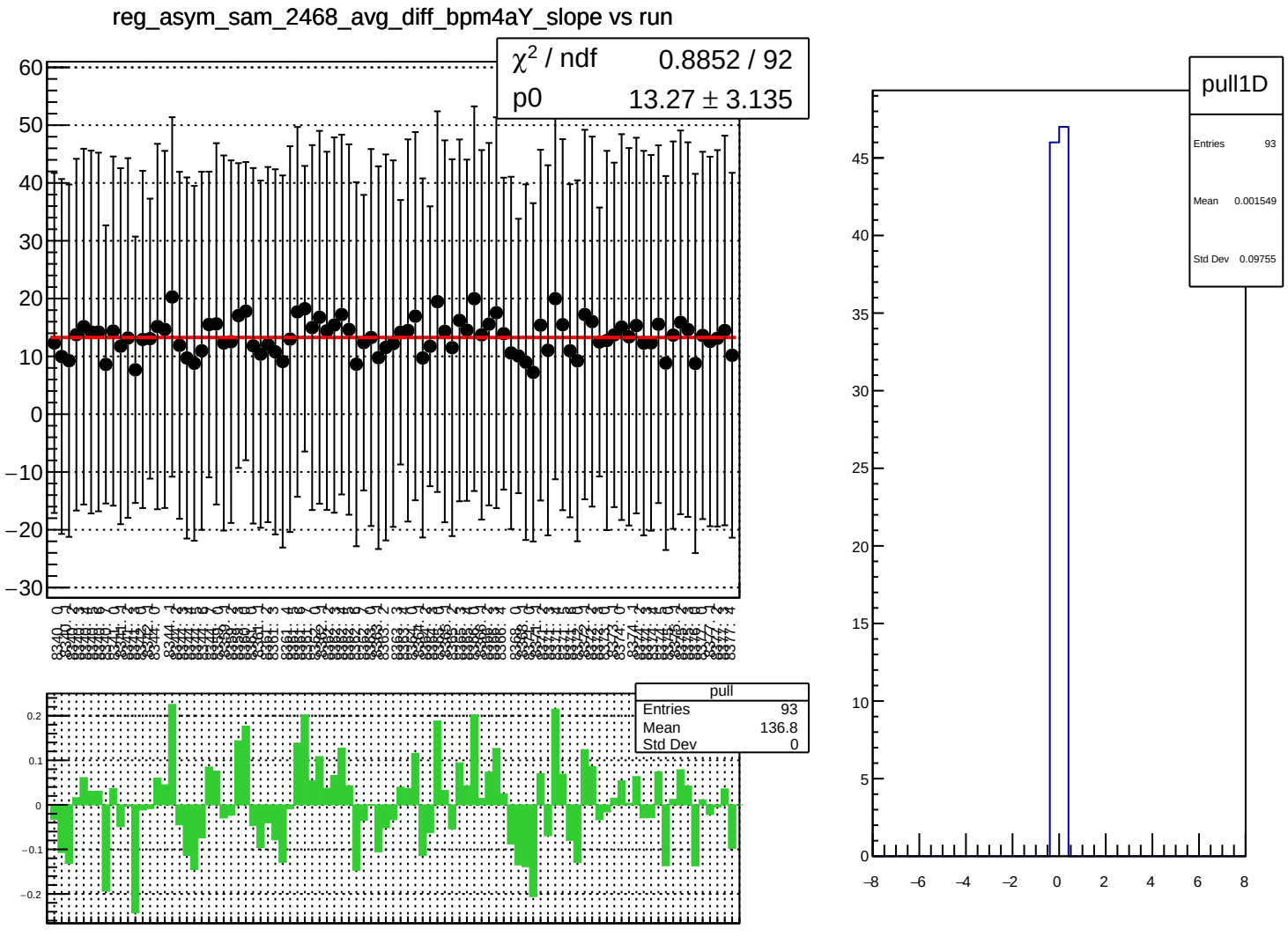

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.124 / 92
p0 −38.87 ± 0.9362
−25
−30
−35
−40
−45
−50
−55
pull
Entries 93
Mean −1441
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.002548
Std Dev 0.2347
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

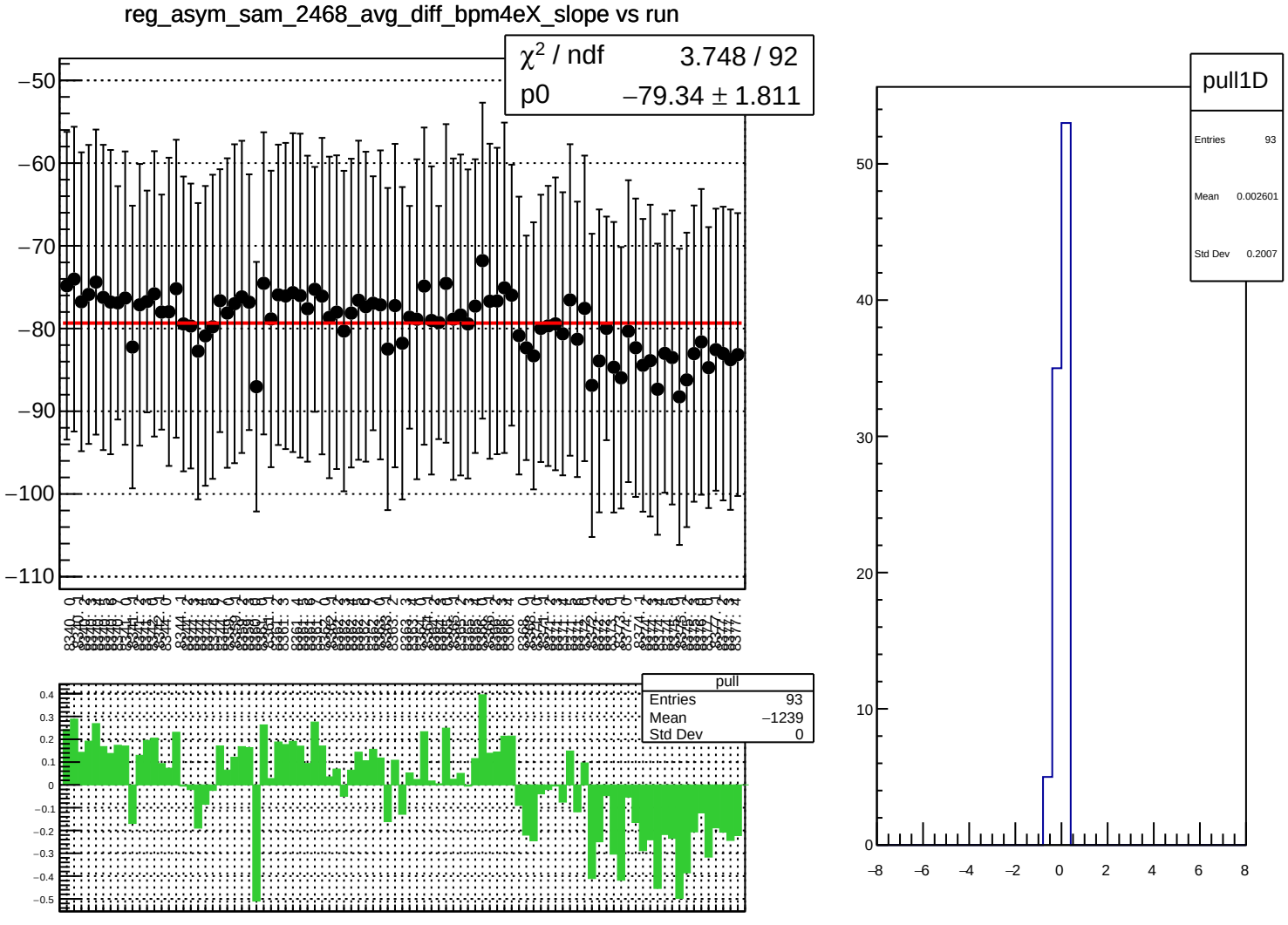

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 1.872 / 92
p0 14.25 ± 1.674
pull
Entries 93
Mean 383.8
Std Dev 0
pull1D
Entries 93
Mean −0.001954
Std Dev 0.1419

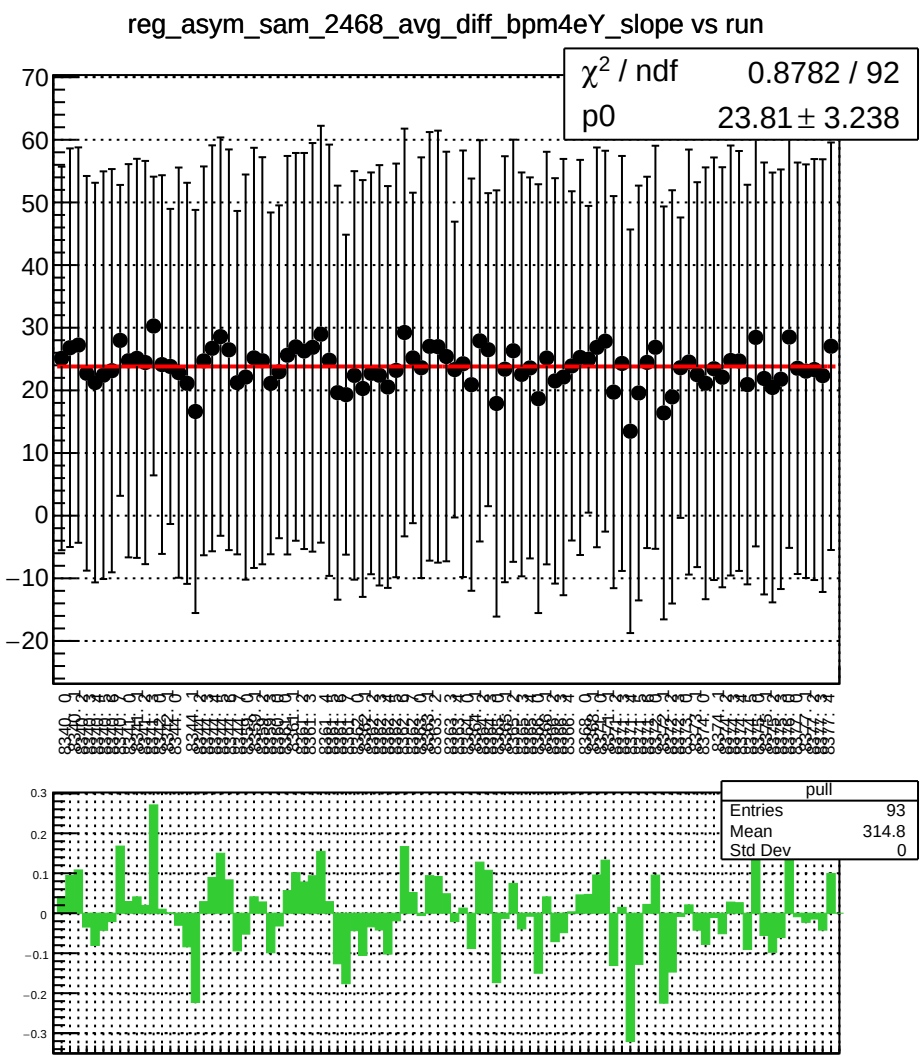

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 2.937 / 92
p0 1.007 ± 0.1003
pull
Entries 93
Mean 379.4
Std Dev 0

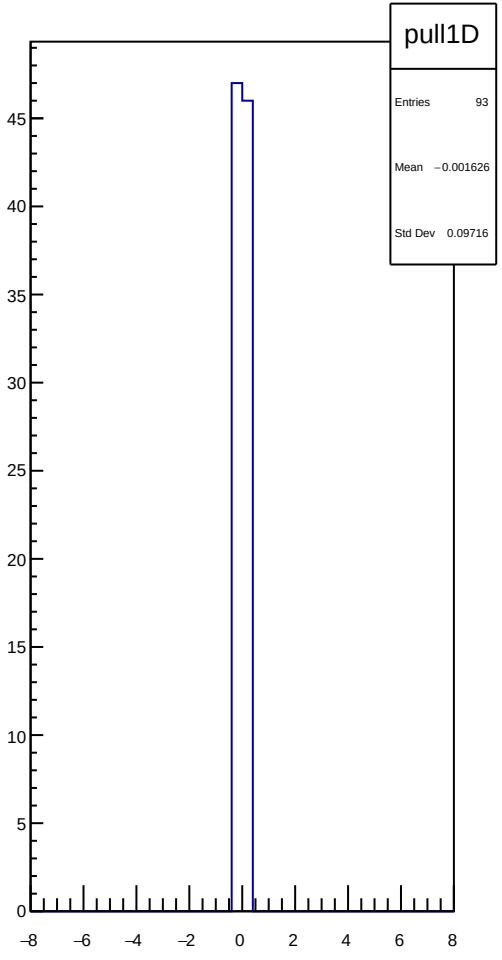

pull1D
Entries 93
Mean 0.005142
Std Dev 0.1776

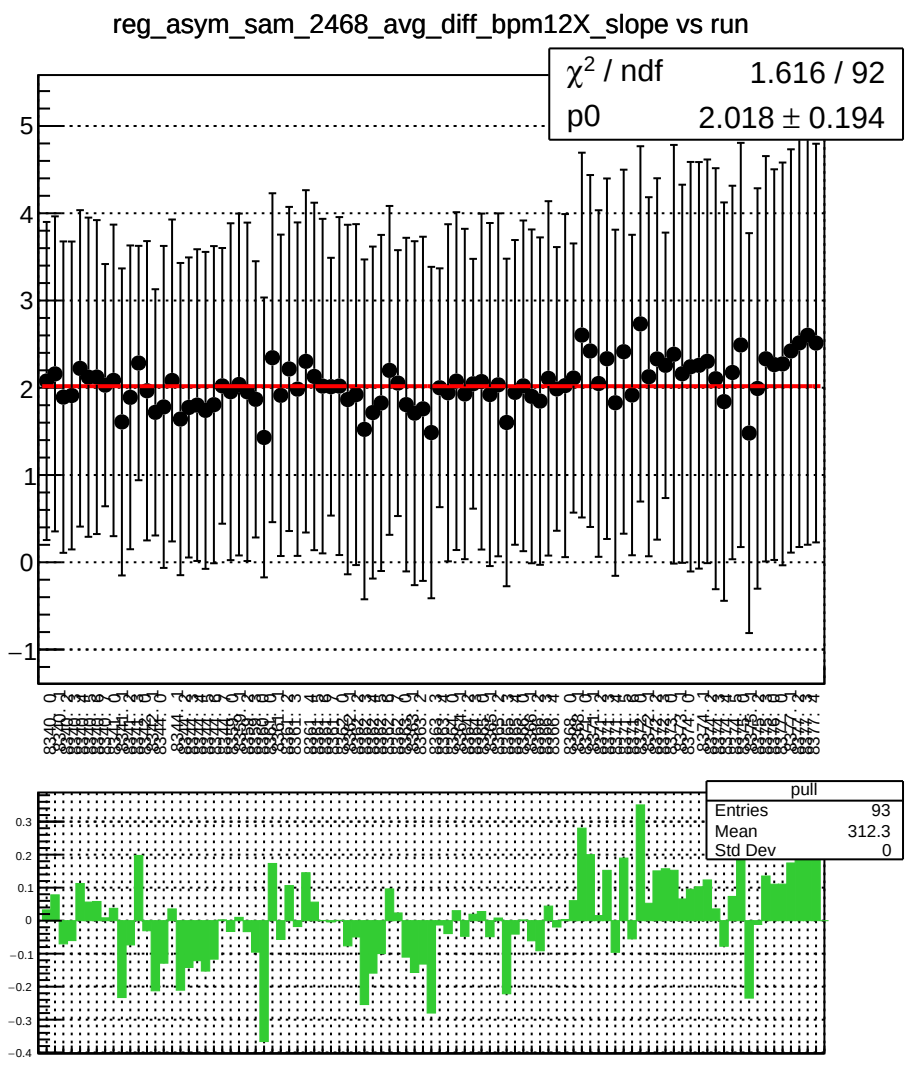

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.502 / 92
p0 −3.258 ± 1.576
20
10
0
−10
−20
−30
pull
Entries 93
Mean −625.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.006402
Std Dev 0.2431
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

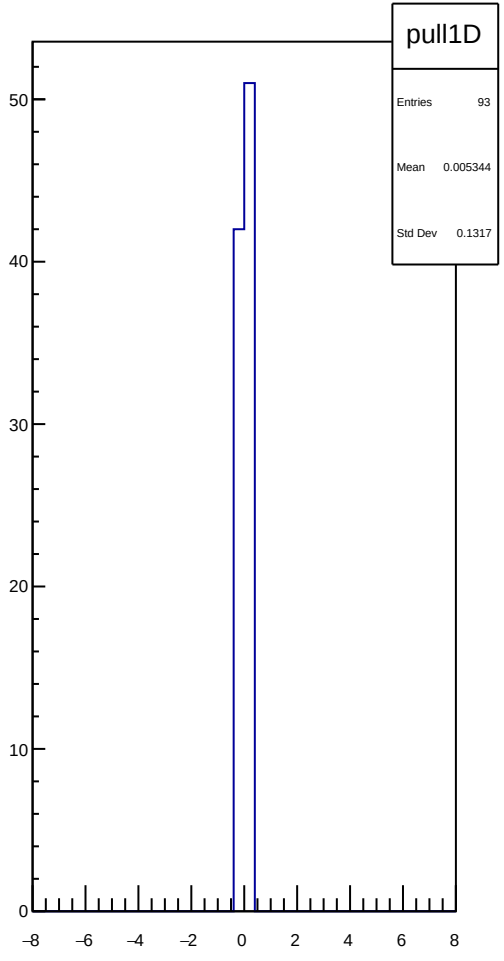

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 0.8852 / 92
p0 13.27 ± 3.135
pull
Entries 93
Mean 136.8
Std Dev 0
pull1D
Entries 93
Mean 0.001549
Std Dev 0.09755

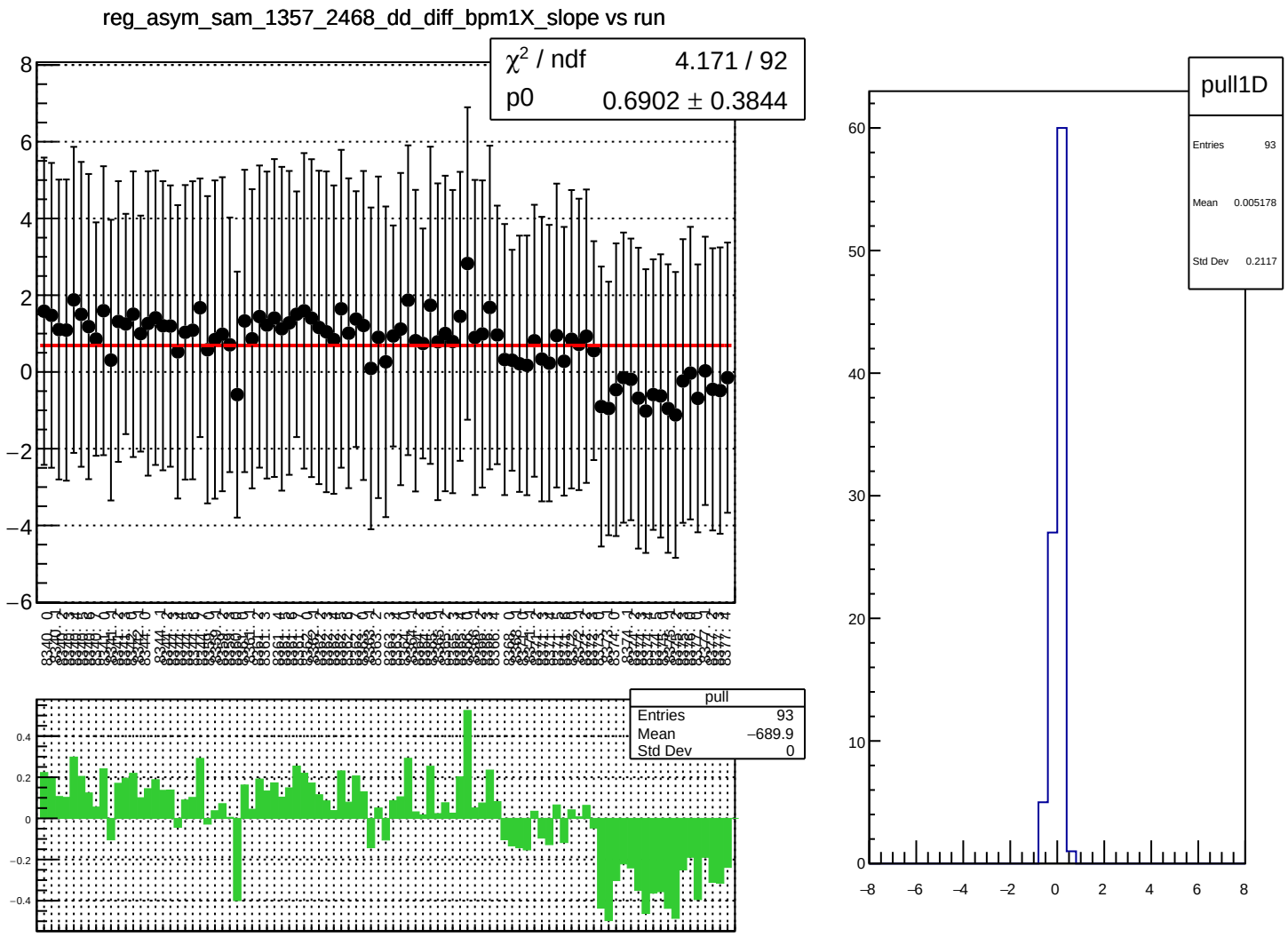

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.748 / 92
p0 −79.34 ± 1.811
pull
Entries 93
Mean −1239
Std Dev 0
pull1D
Entries 93
Mean 0.002601
Std Dev 0.2007

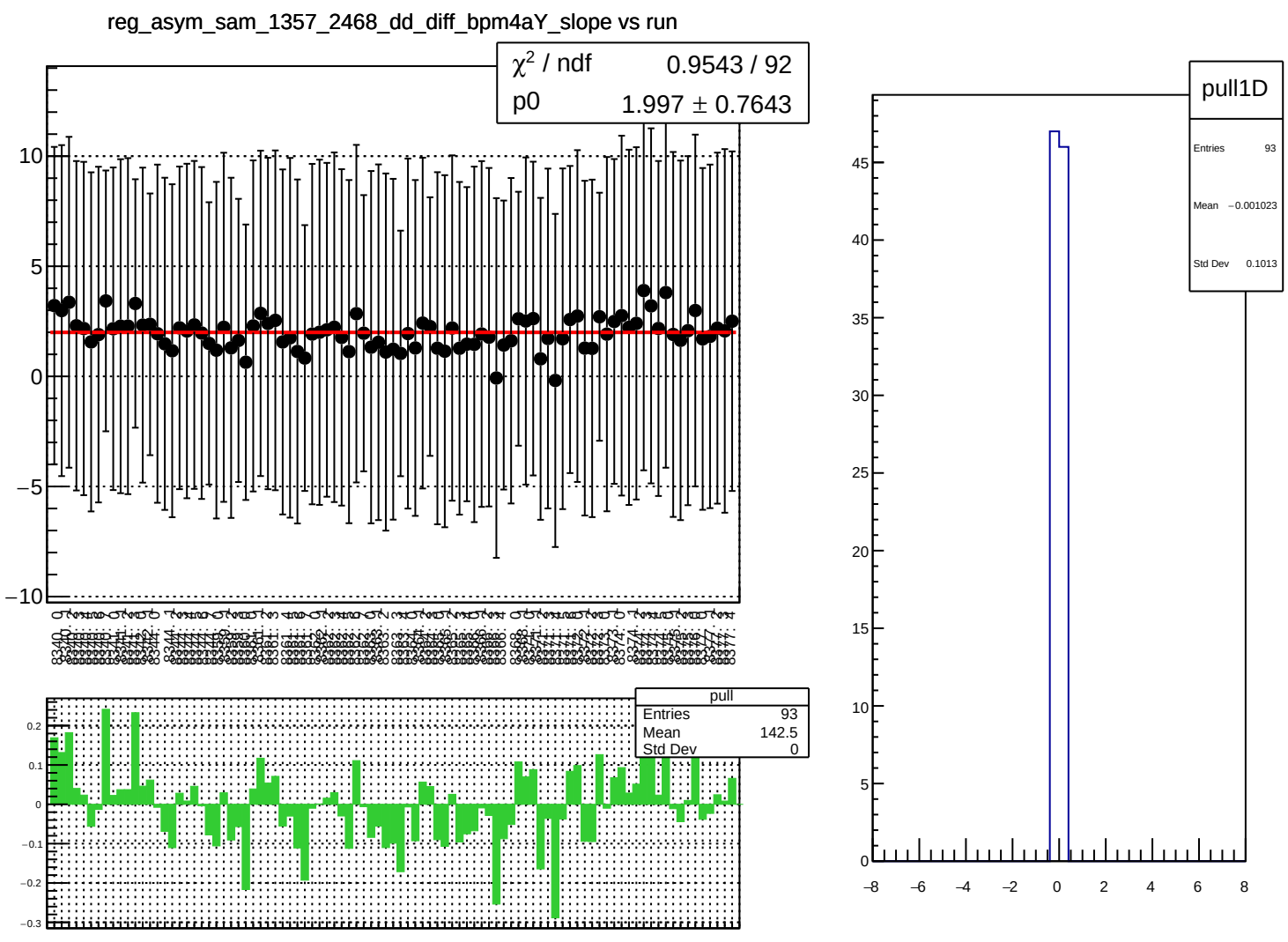

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 0.8782 / 92
p0 23.81 ± 3.238
pull
Entries 93
Mean 314.8
Std Dev 0

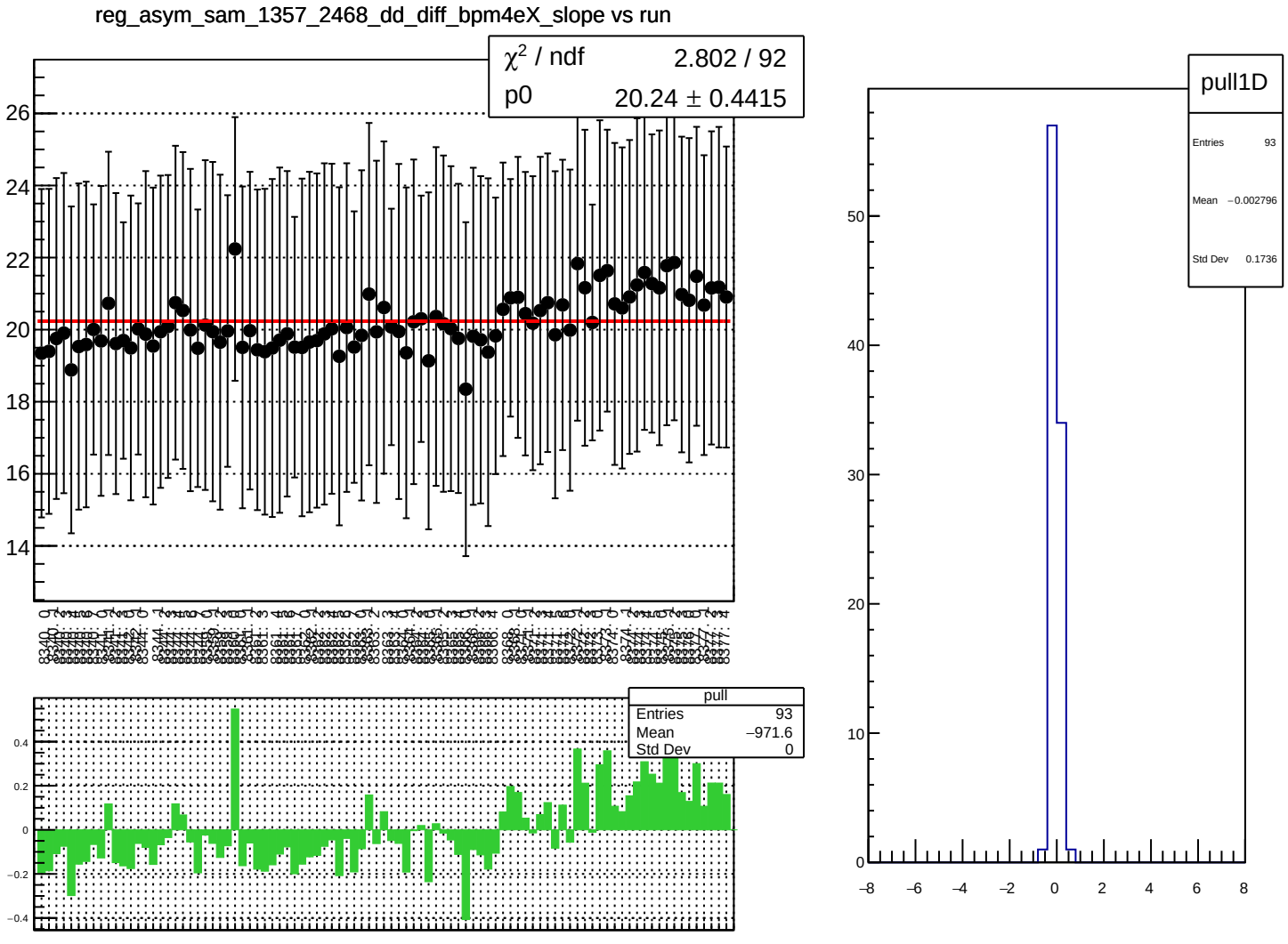

pull1D
Entries 93
Mean −0.001626
Std Dev 0.09716

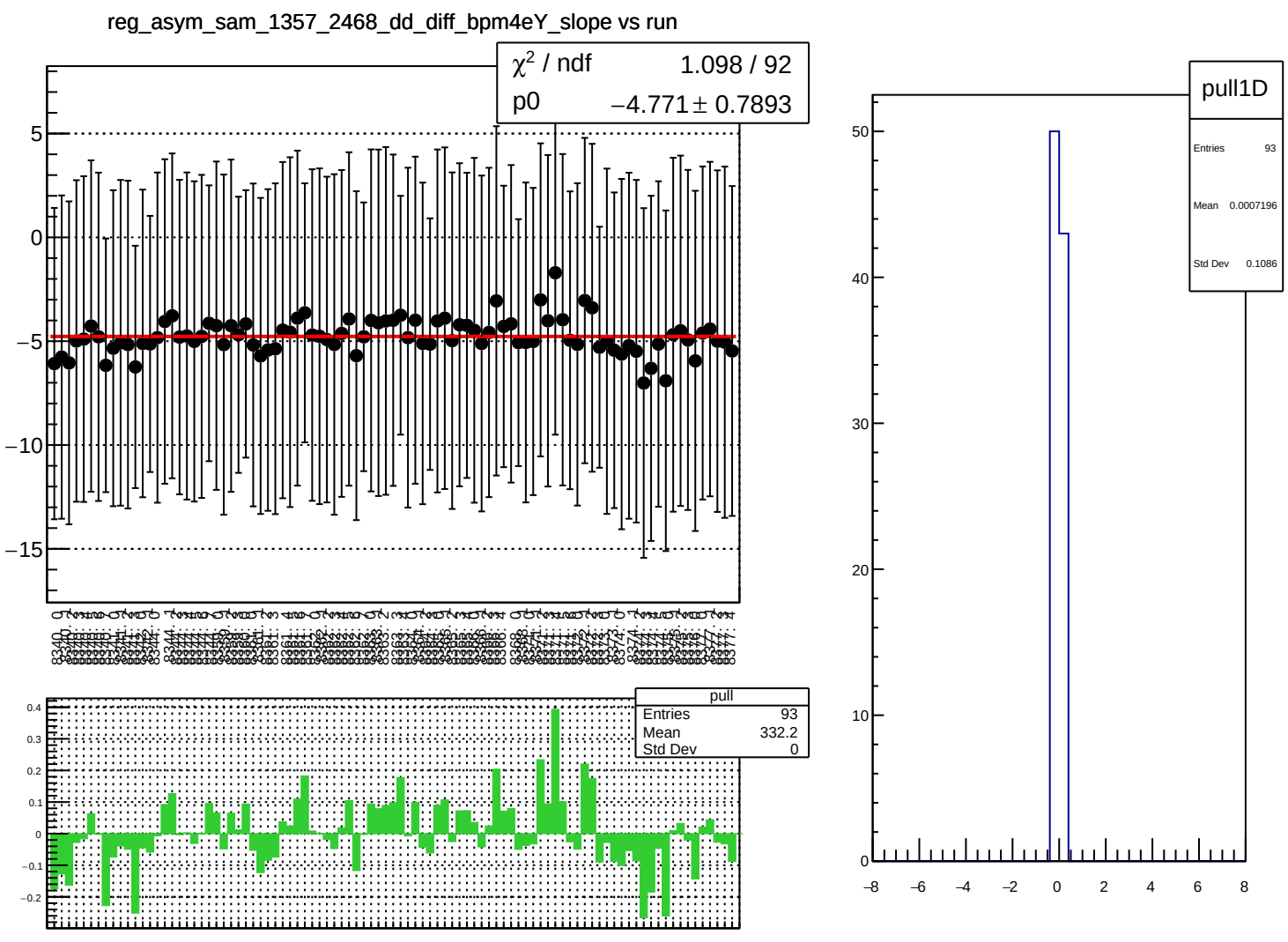

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1.616 / 92
p0 2.018 ± 0.194
pull
Entries 93
Mean 312.3
Std Dev 0

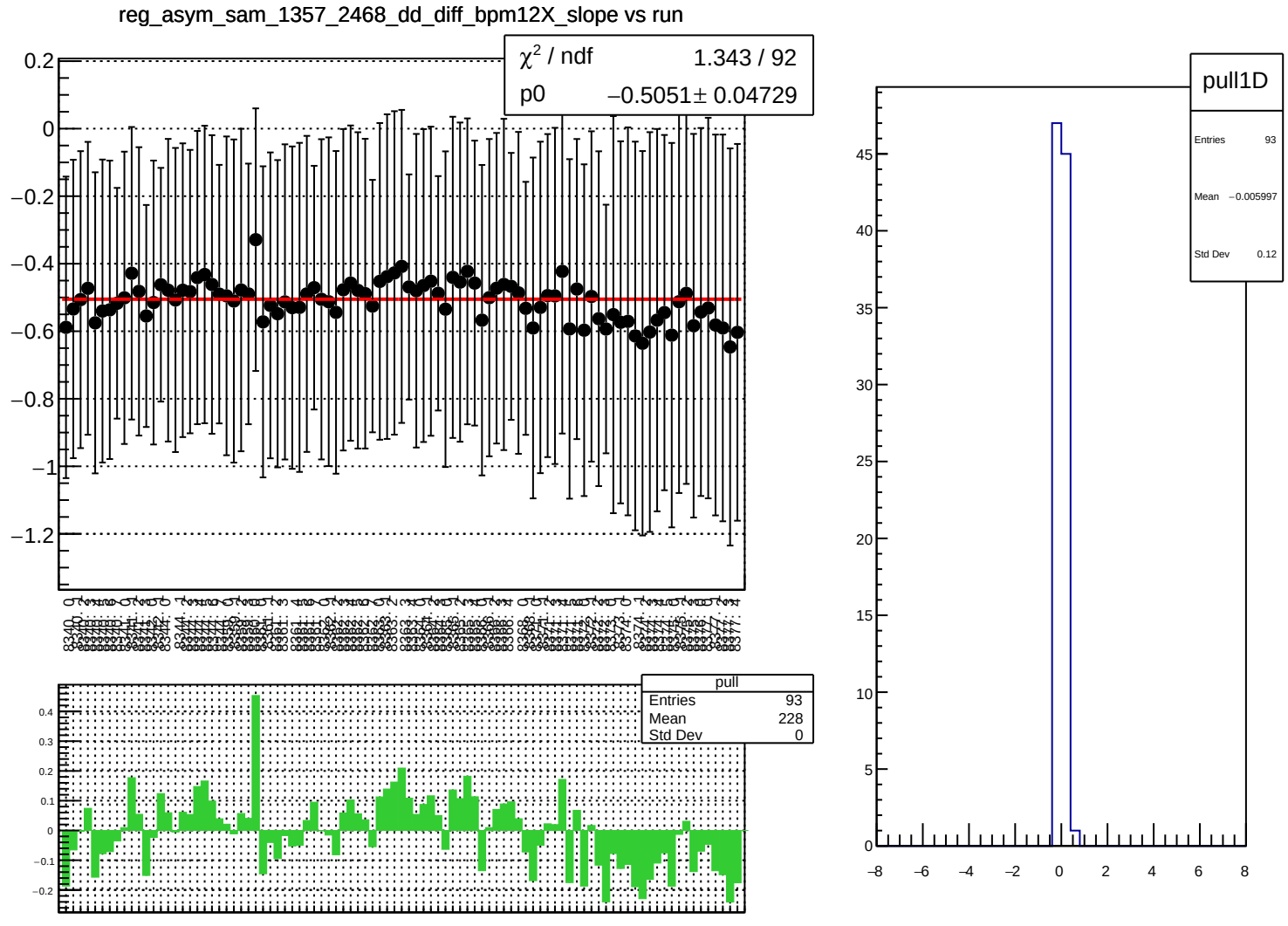

pull1D
Entries 93
Mean 0.005344
Std Dev 0.1317

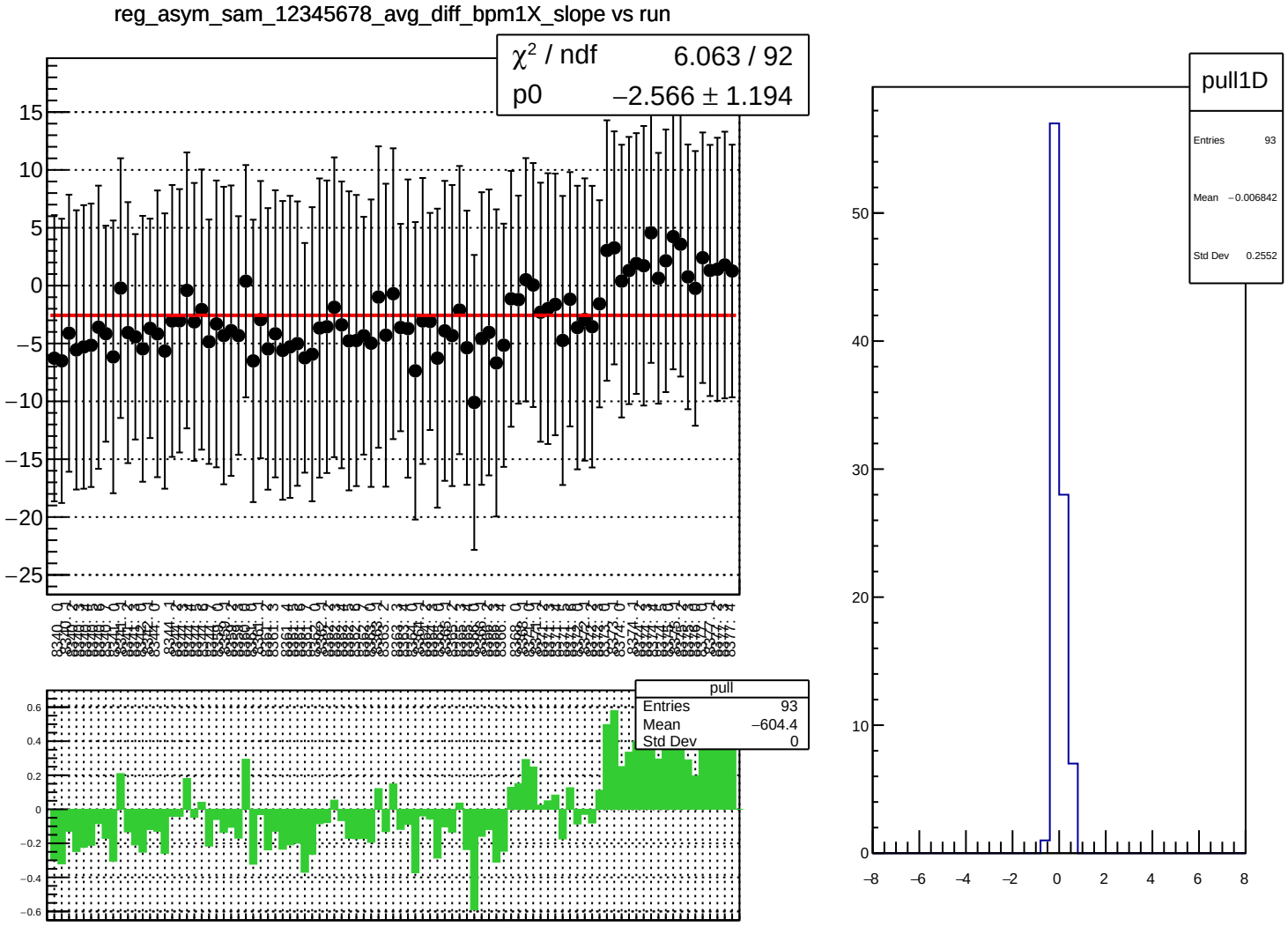

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 4.171 / 92
p0 0.6902 ± 0.3844
pull
Entries 93
Mean −689.9
Std Dev 0
pull1D
Entries 93
Mean 0.005178
Std Dev 0.2117

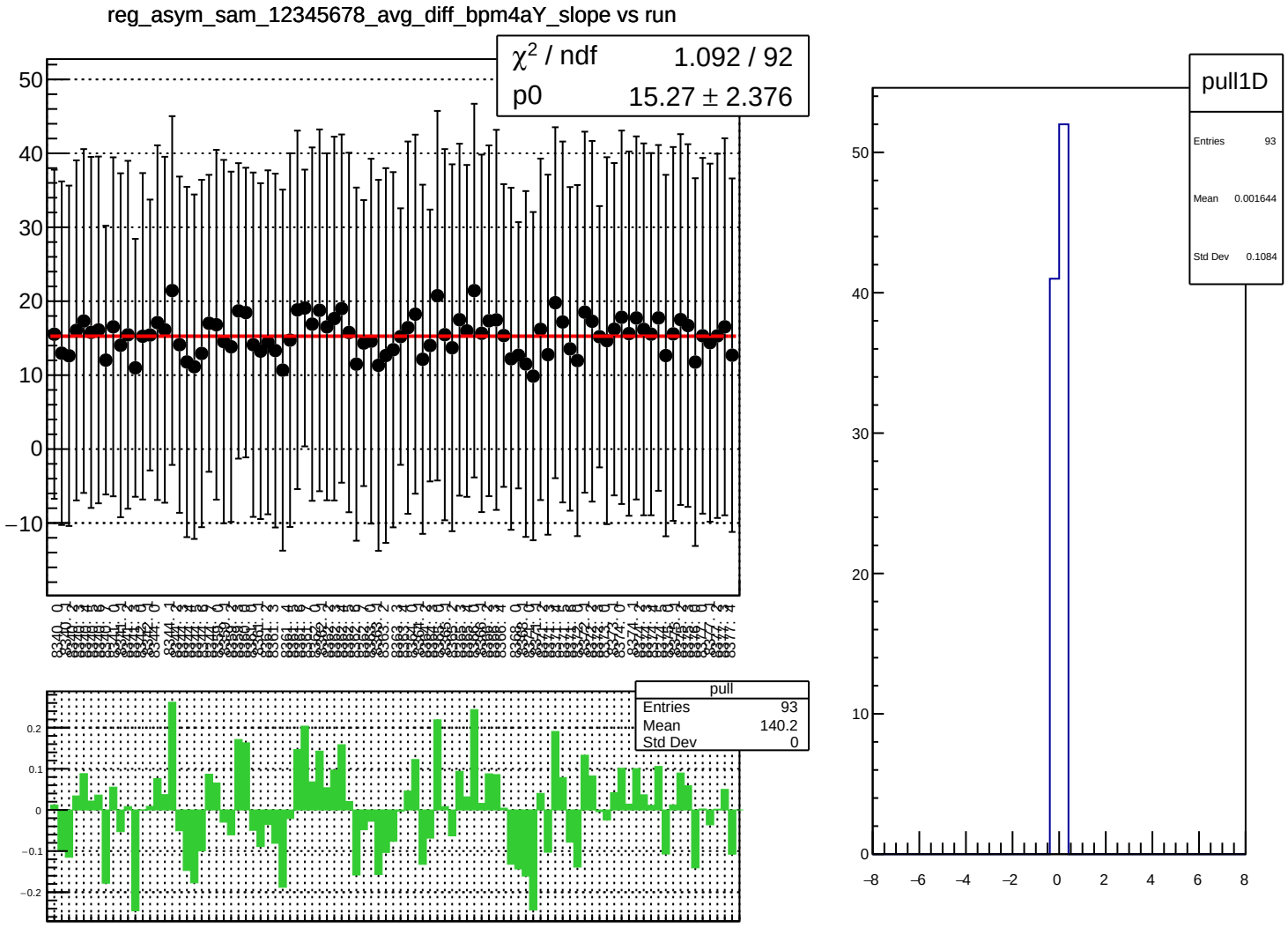

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 0.9543 / 92
p0 1.997 ± 0.7643
pull
Entries 93
Mean 142.5
Std Dev 0
pull1D
Entries 93
Mean −0.001023
Std Dev 0.1013

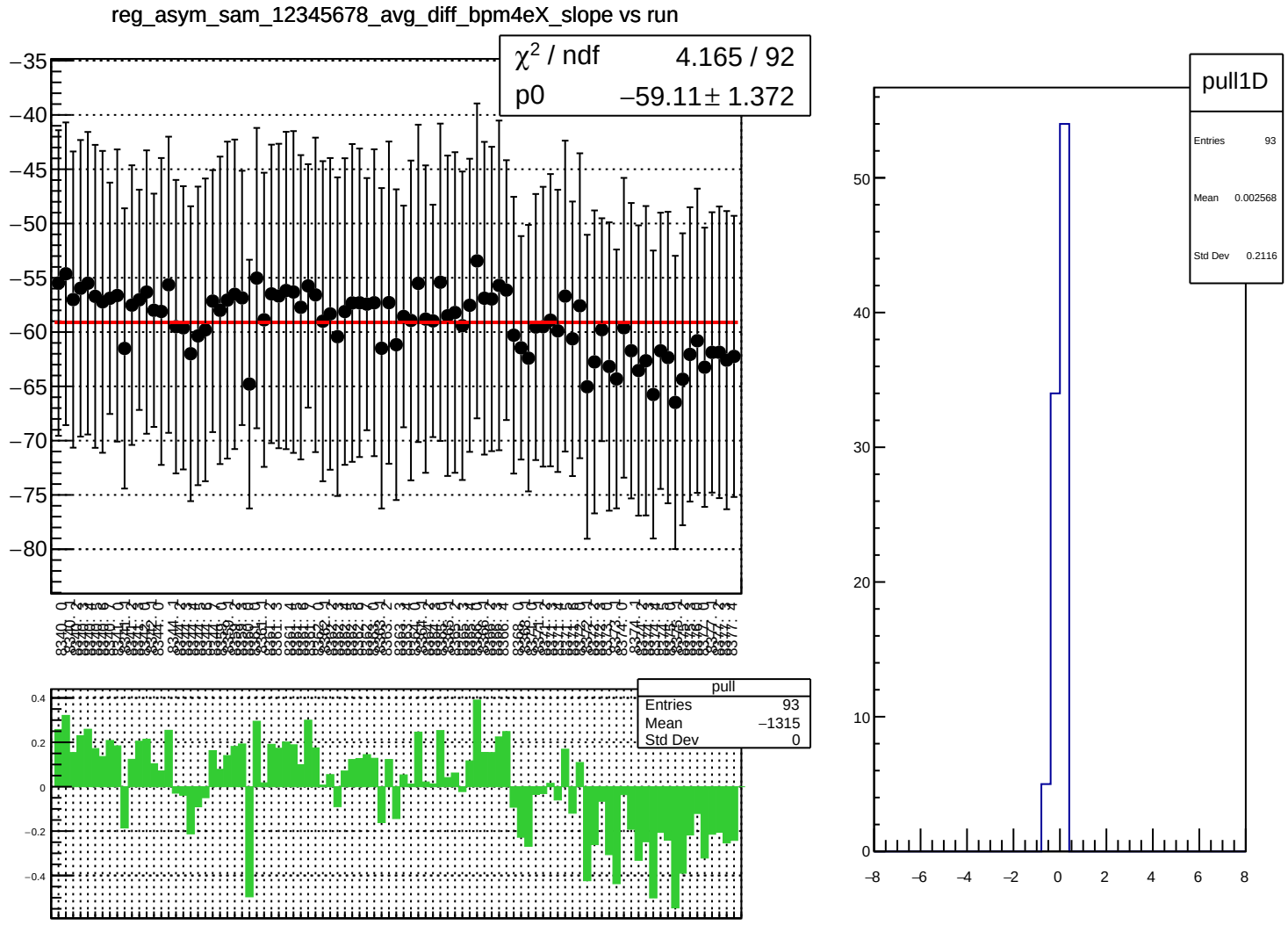

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.802 / 92
p0 20.24 ± 0.4415
pull
Entries 93
Mean −971.6
Std Dev 0
pull1D
Entries 93
Mean −0.002796
Std Dev 0.1736

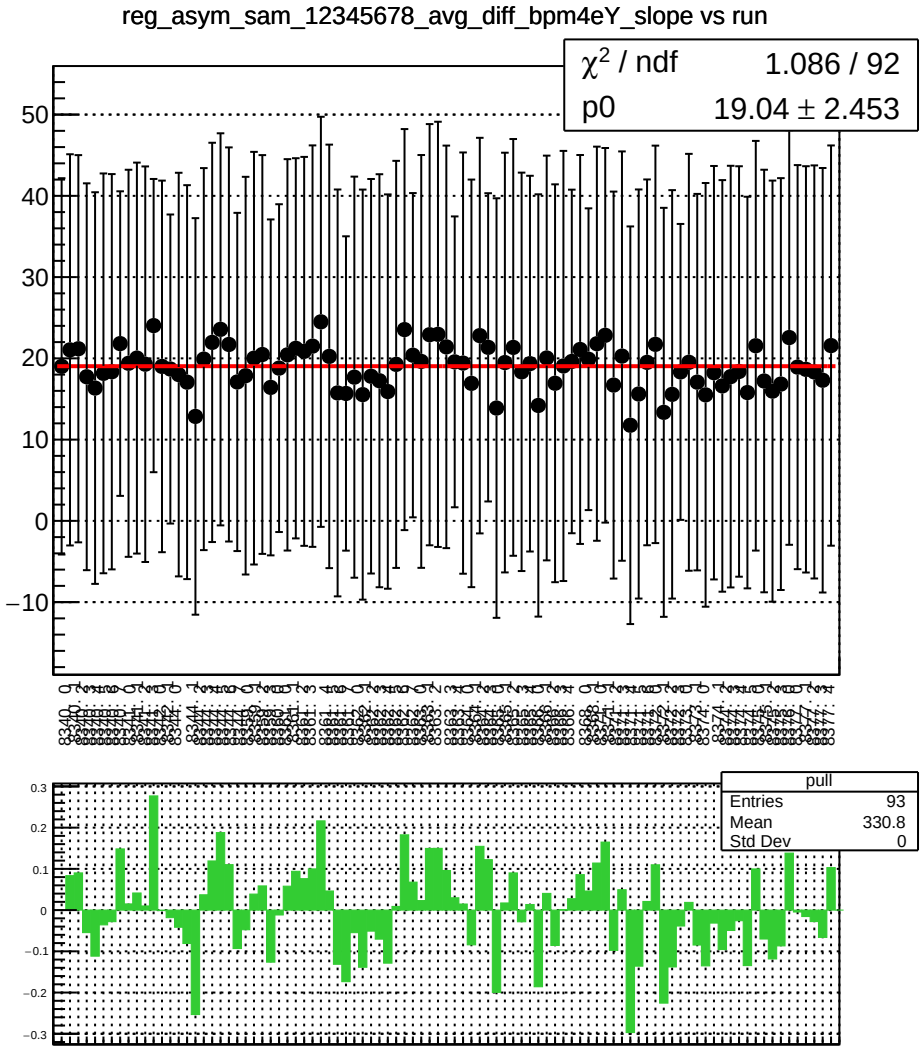

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.098 / 92
p0 −4.771 ± 0.7893
pull
Entries 93
Mean 332.2
Std Dev 0
pull1D
Entries 93
Mean 0.0007196
Std Dev 0.1086

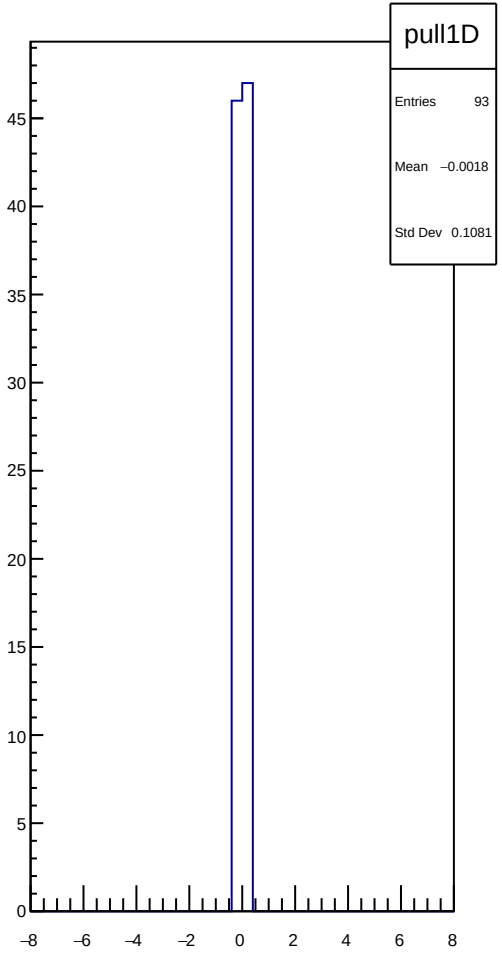

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 1.343 / 92
p0 −0.5051 ± 0.04729
pull
Entries 93
Mean 228
Std Dev 0
pull1D
Entries 93
Mean −0.005997
Std Dev 0.12

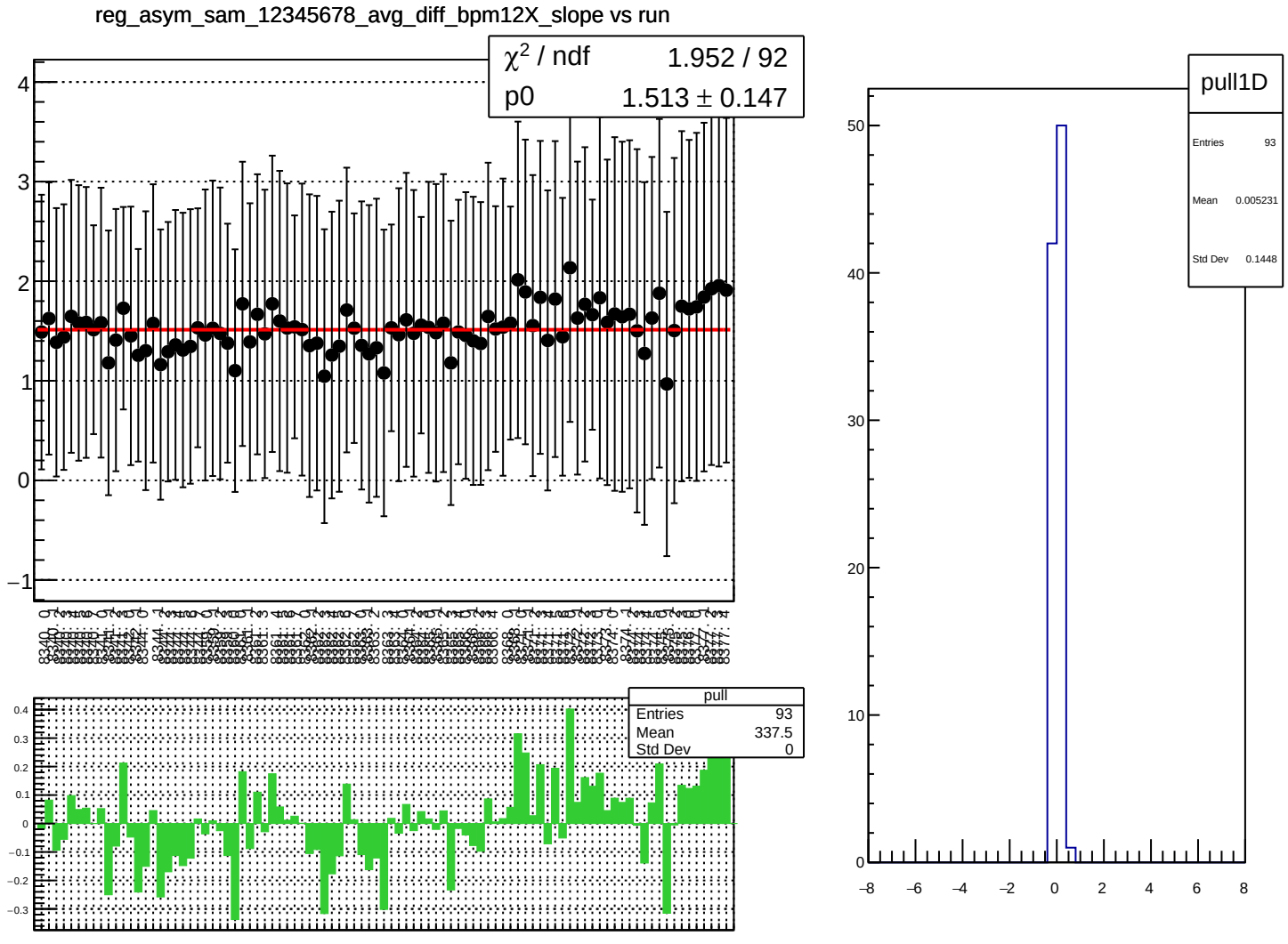

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 6.063 / 92
p0 −2.566 ± 1.194
pull
Entries 93
Mean −604.4
Std Dev 0
pull1D
Entries 93
Mean −0.006842
Std Dev 0.2552

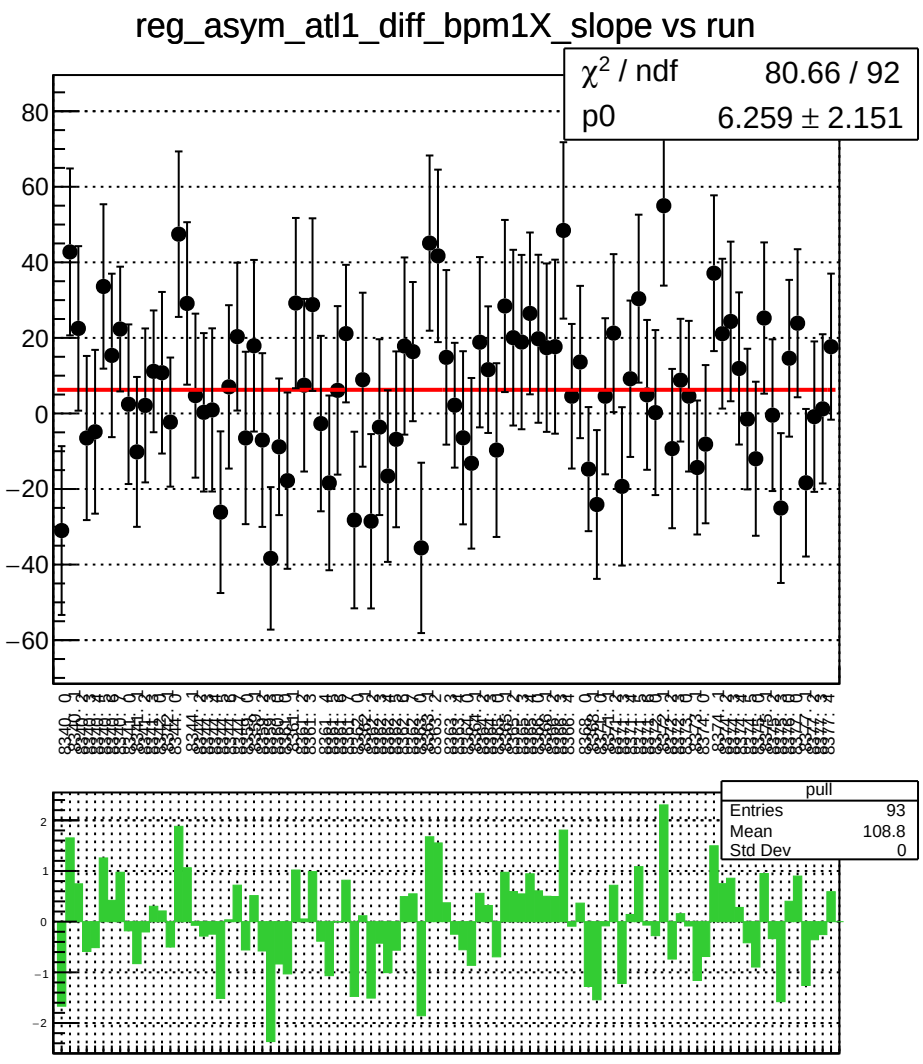

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.092 / 92
p0 15.27 ± 2.376
pull
Entries 93
Mean 140.2
Std Dev 0
pull1D
Entries 93
Mean 0.001644
Std Dev 0.1084

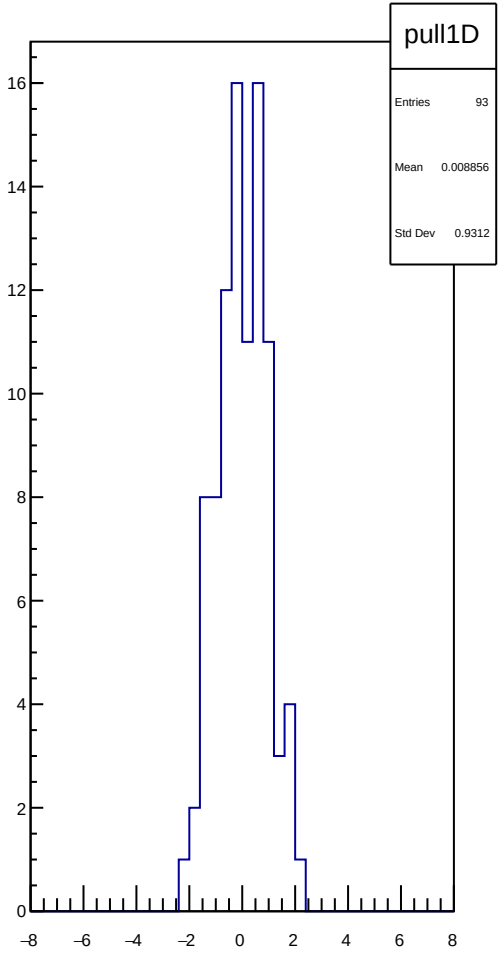

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.165 / 92
p0 −59.11± 1.372
pull
Entries 93
Mean −1315
Std Dev 0
pull1D
Entries 93
Mean 0.002568
Std Dev 0.2116

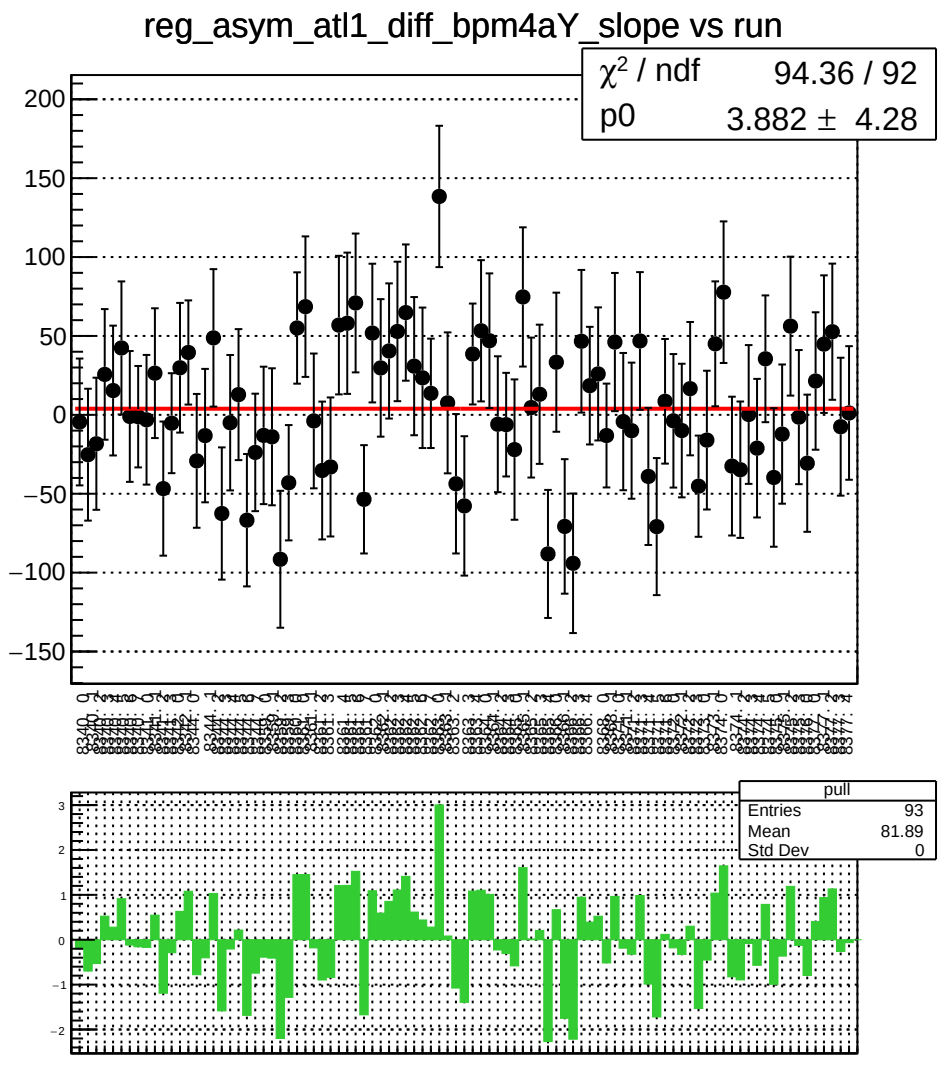

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 1.086 / 92
p0 19.04 ± 2.453
pull
Entries 93
Mean 330.8
Std Dev 0

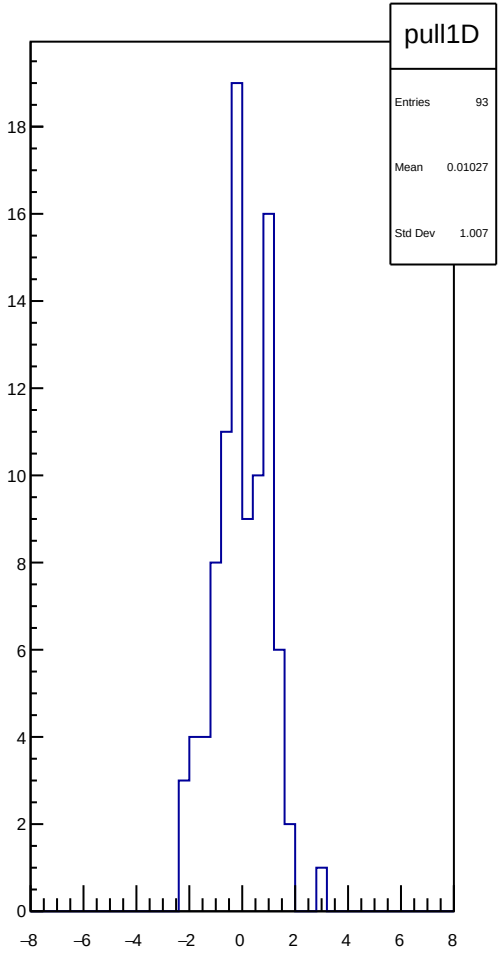

pull1D
Entries 93
Mean −0.0018
Std Dev 0.1081

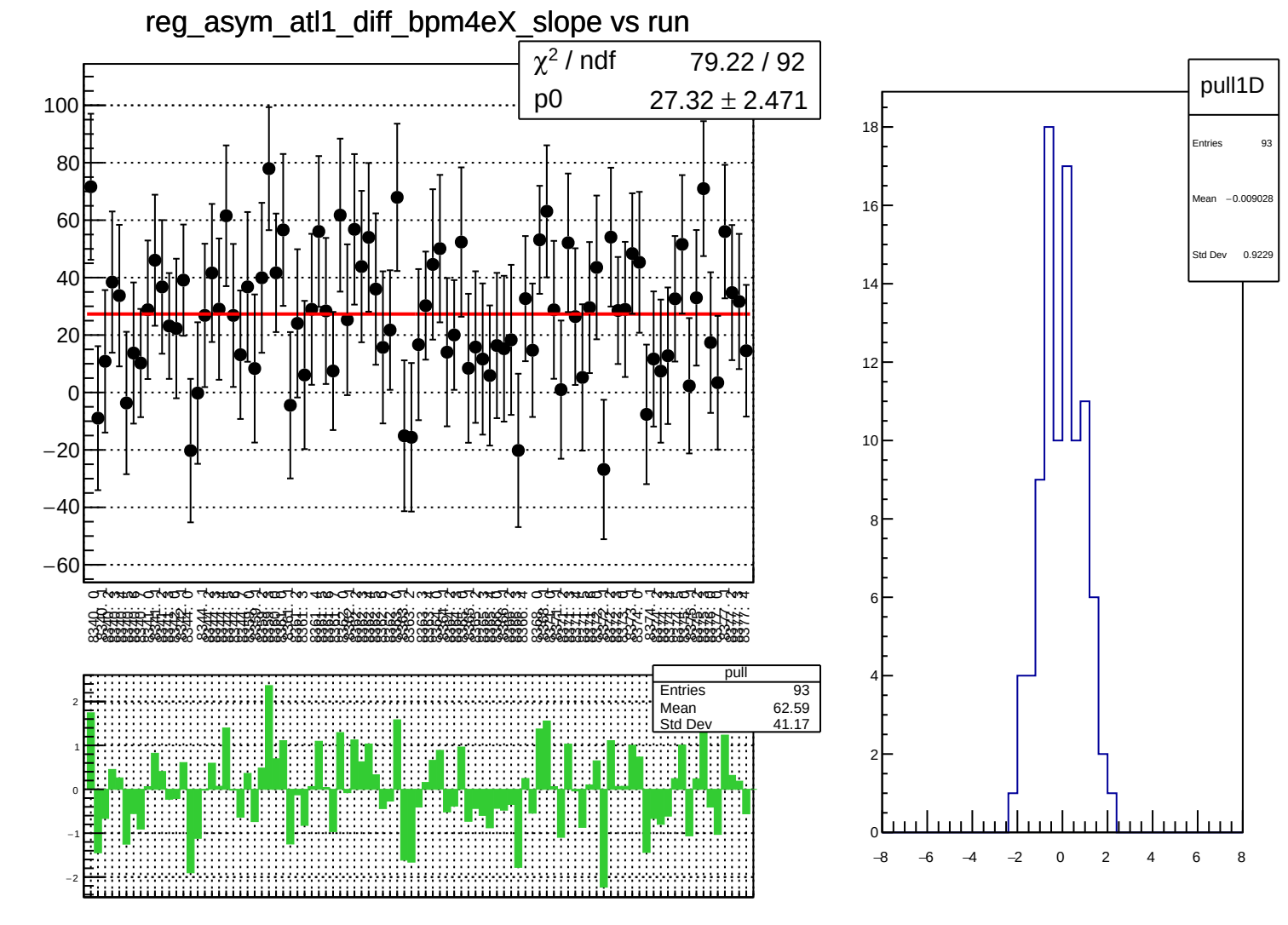

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1.952 / 92
p0 1.513 ± 0.147
pull
Entries 93
Mean 337.5
Std Dev 0
pull1D
Entries 93
Mean 0.005231
Std Dev 0.1448

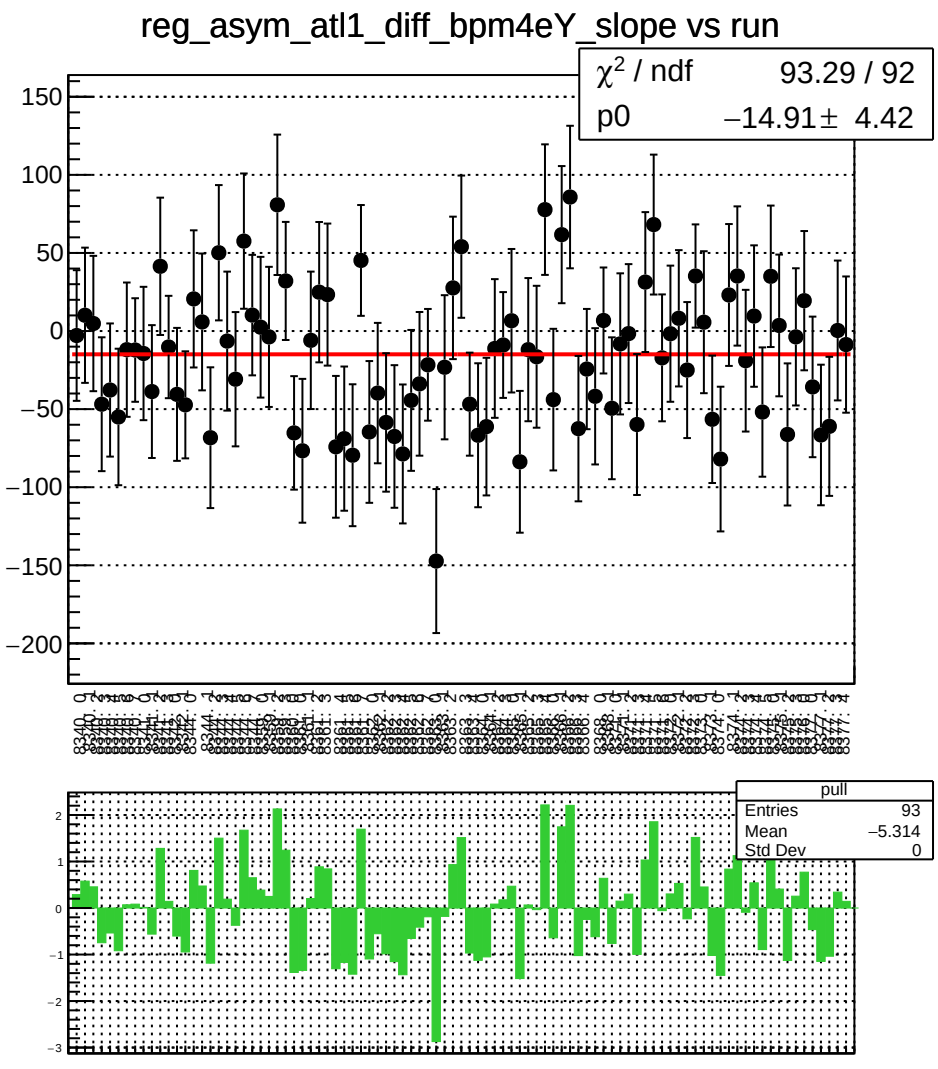

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 80.66 / 92
p0 6.259 ± 2.151
pull
Entries 93
Mean 108.8
Std Dev 0

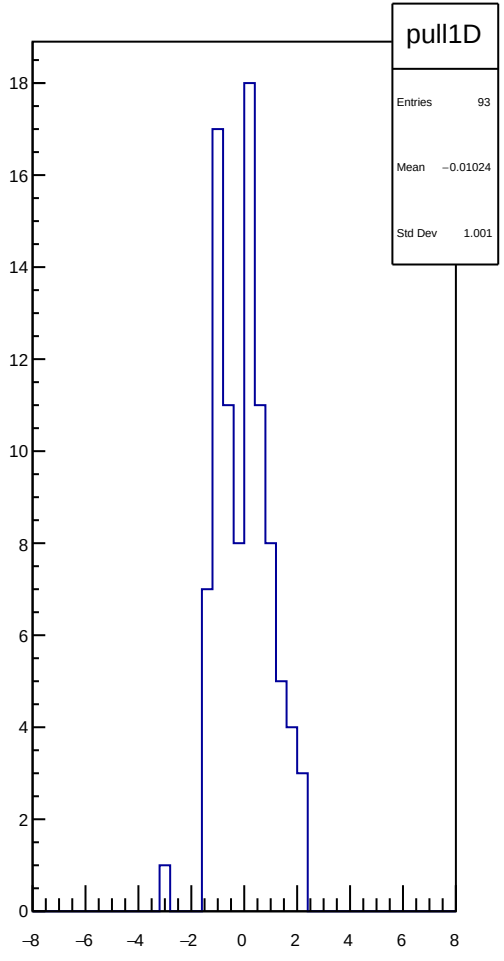

pull1D
Entries 93
Mean 0.008856
Std Dev 0.9312

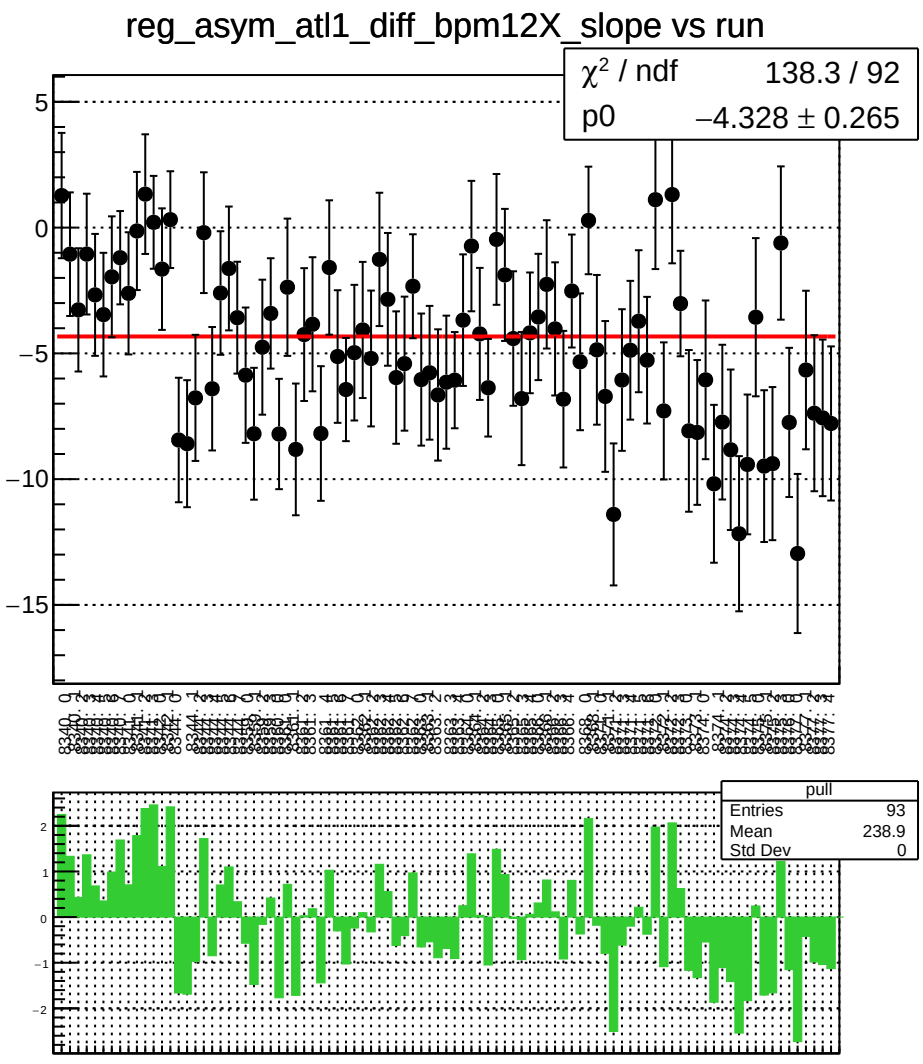

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 94.36 / 92
p0 3.882 ± 4.28
pull
Entries 93
Mean 81.89
Std Dev 0

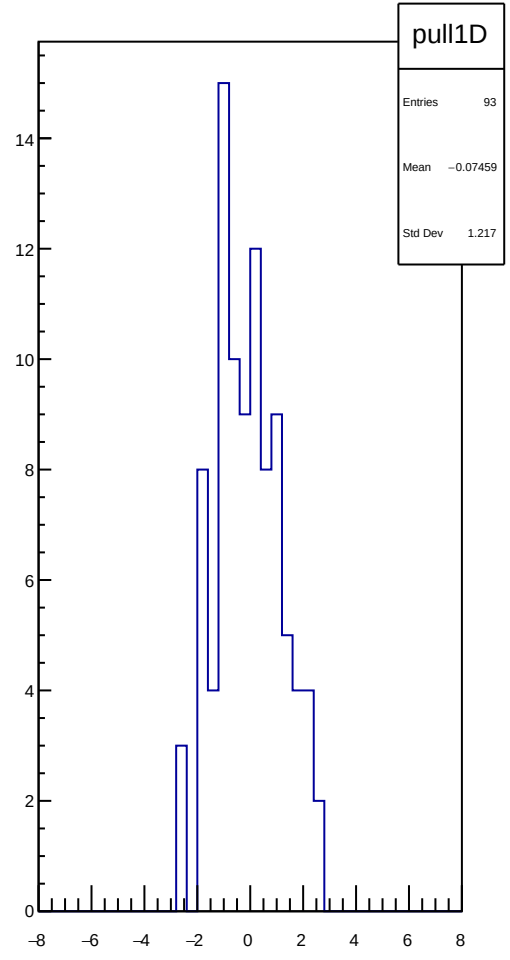

pull1D
Entries 93
Mean 0.01027
Std Dev 1.007

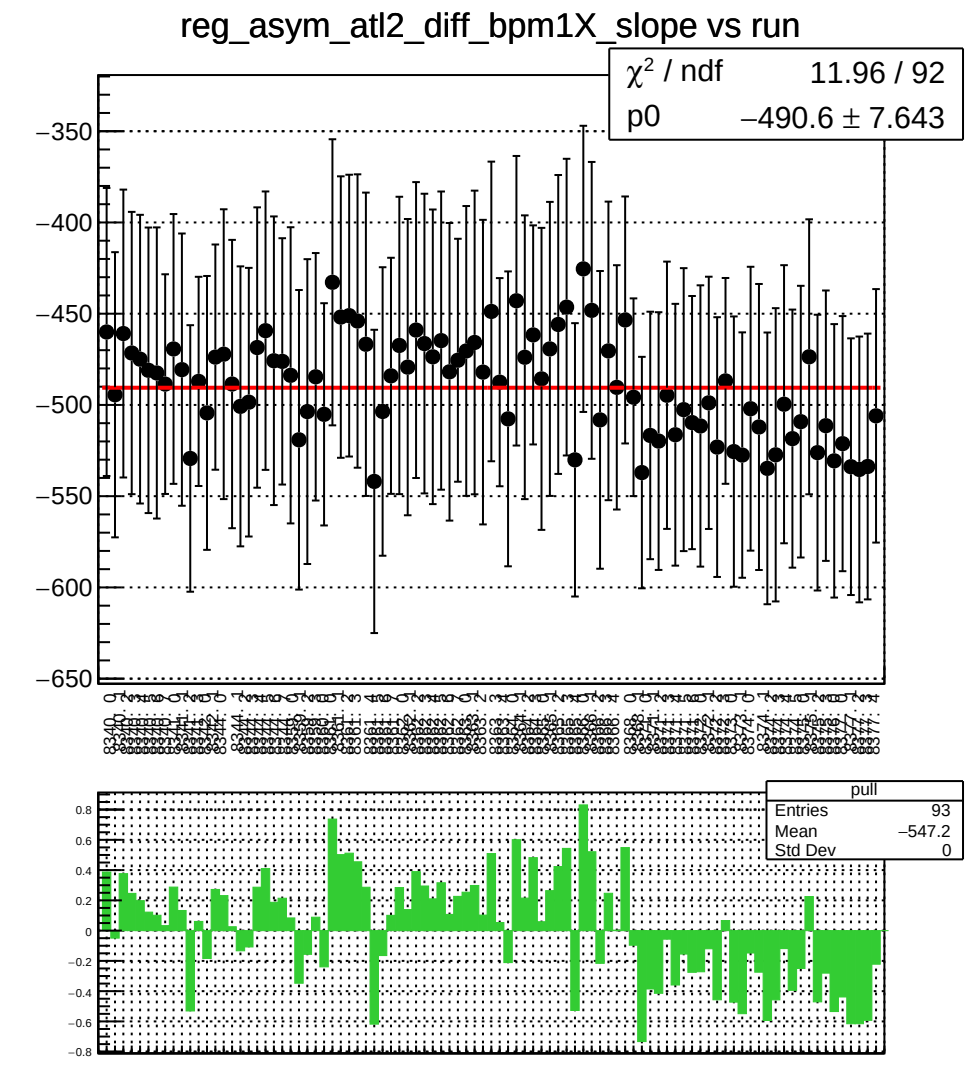

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 79.22 / 92
p0 27.32 ± 2.471
pull
Entries 93
Mean 62.59
Std Dev 41.17
pull1D
Entries 93
Mean −0.009028
Std Dev 0.9229

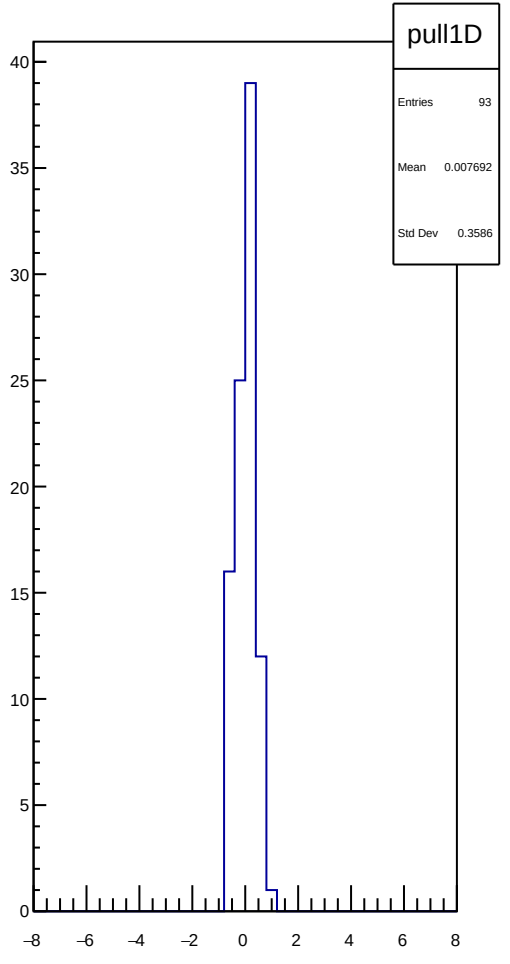

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 93.29 / 92
p0 −14.91± 4.42
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −5.314
Std Dev 0
2
1
0
−1
−2
−3

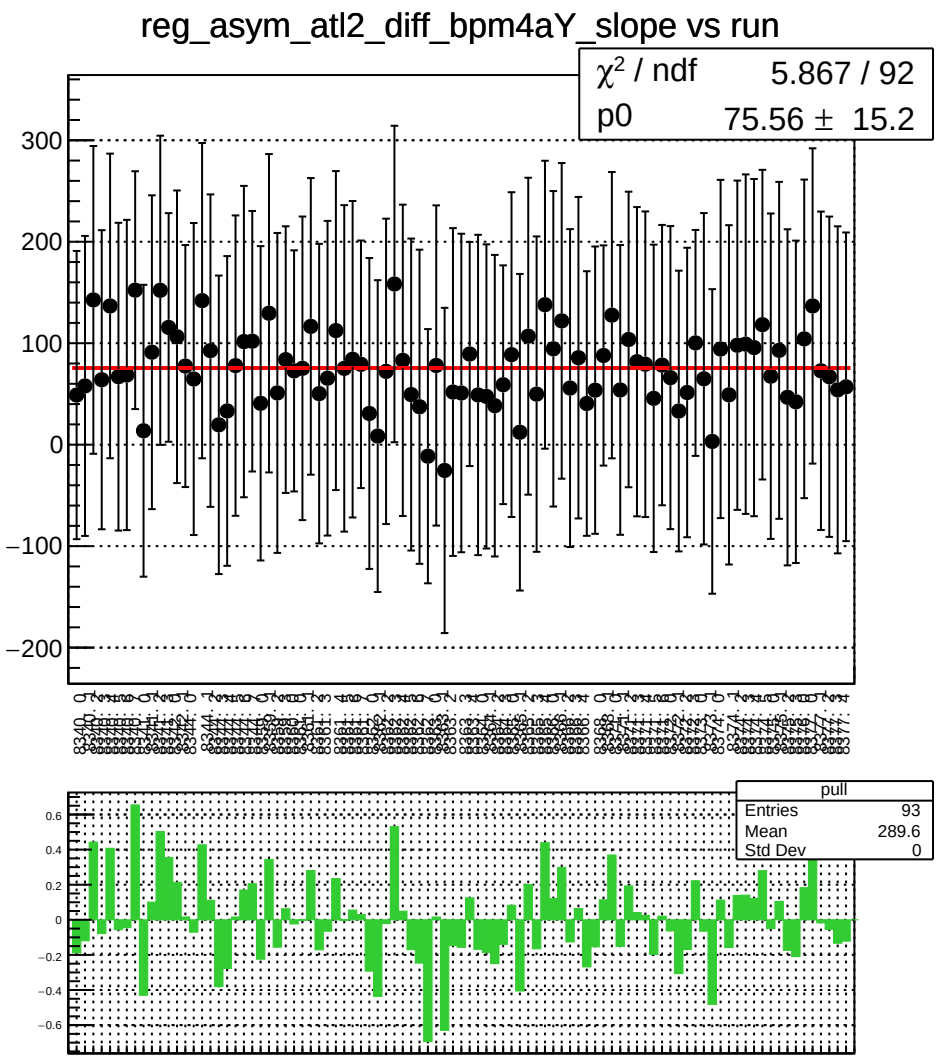

pull1D
Entries 93
Mean −0.01024
Std Dev 1.001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

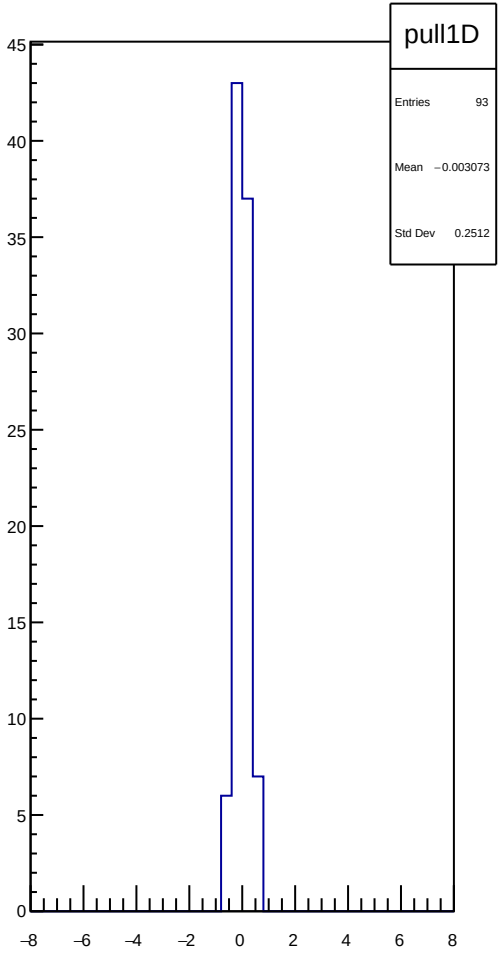

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 138.3 / 92
p0 −4.328 ± 0.265
pull
Entries 93
Mean 238.9
Std Dev 0

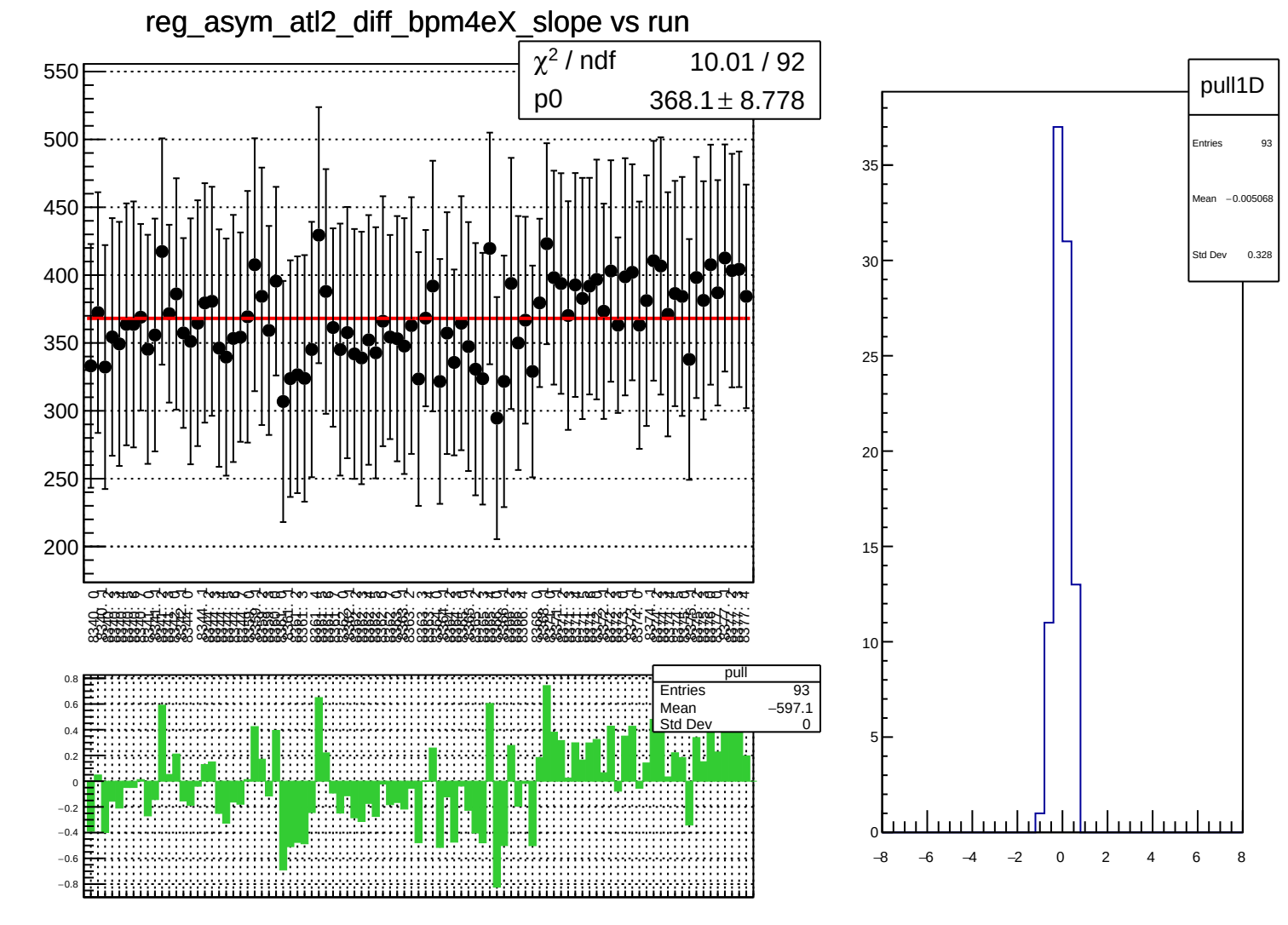

pull1D
Entries 93
Mean −0.07459
Std Dev 1.217

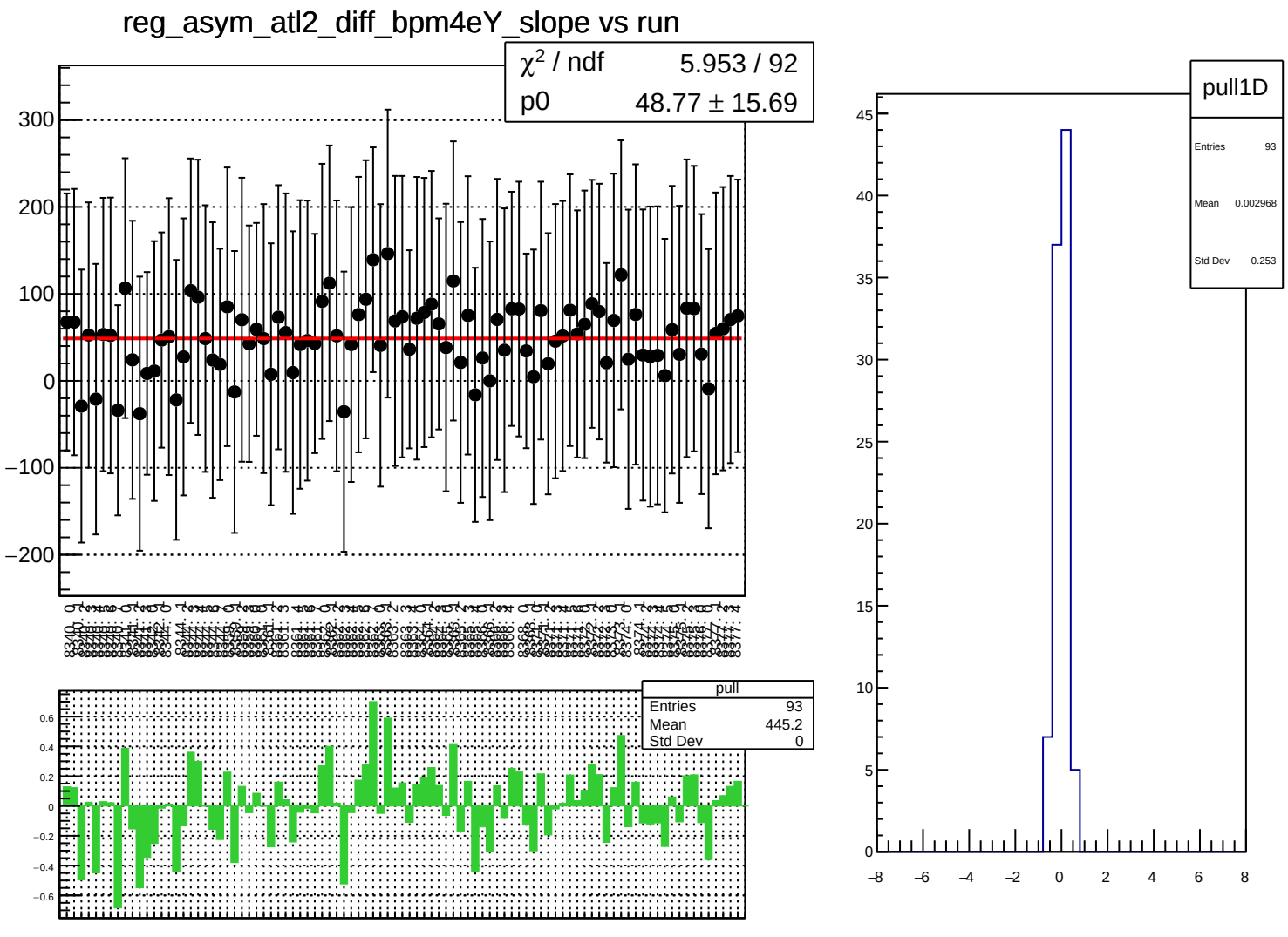

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 11.96 / 92
p0 −490.6 ± 7.643
−350
−400
−450
−500
−550
−600
−650
pull
Entries 93
Mean −547.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

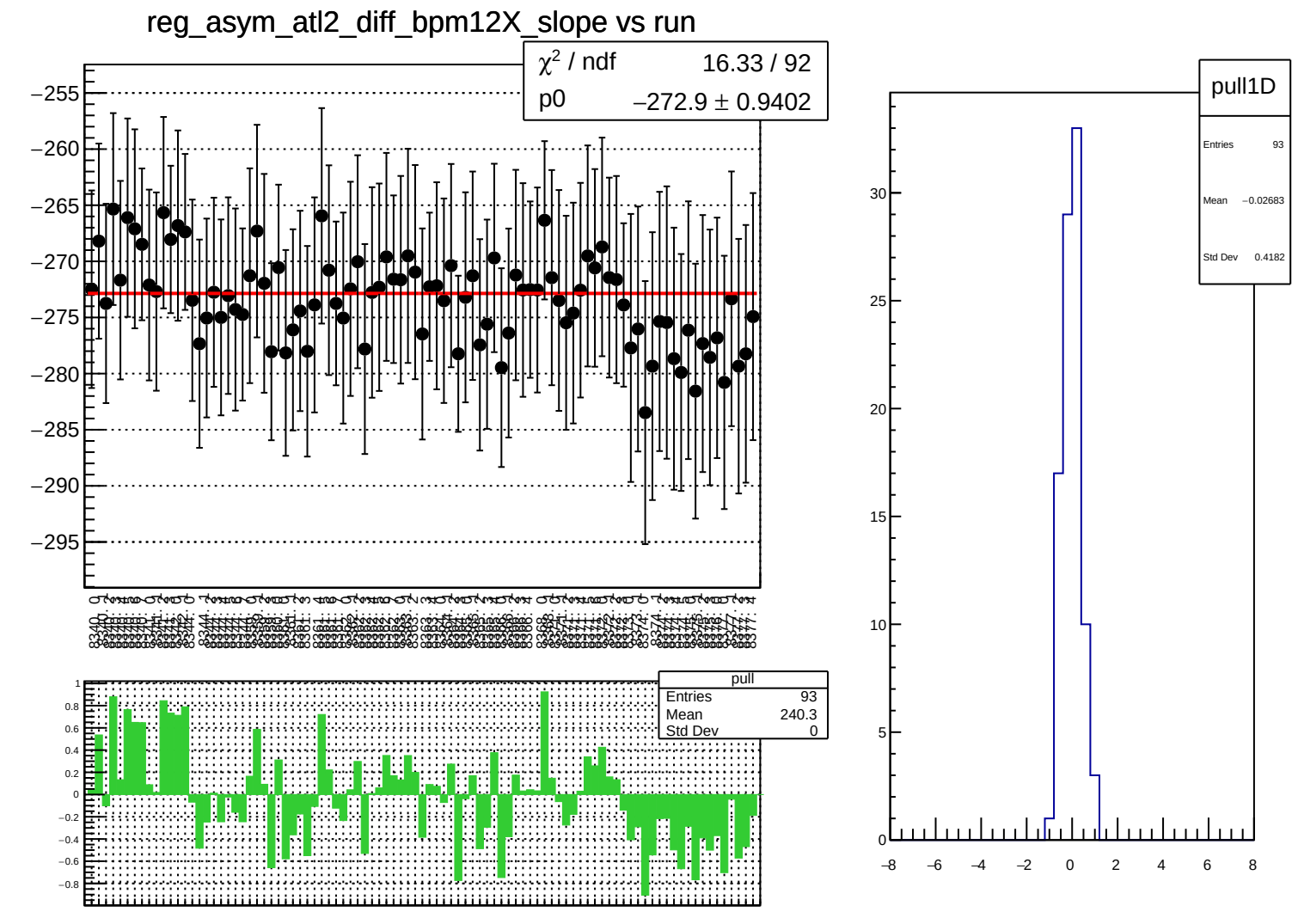

pull1D
Entries 93
Mean 0.007692
Std Dev 0.3586
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

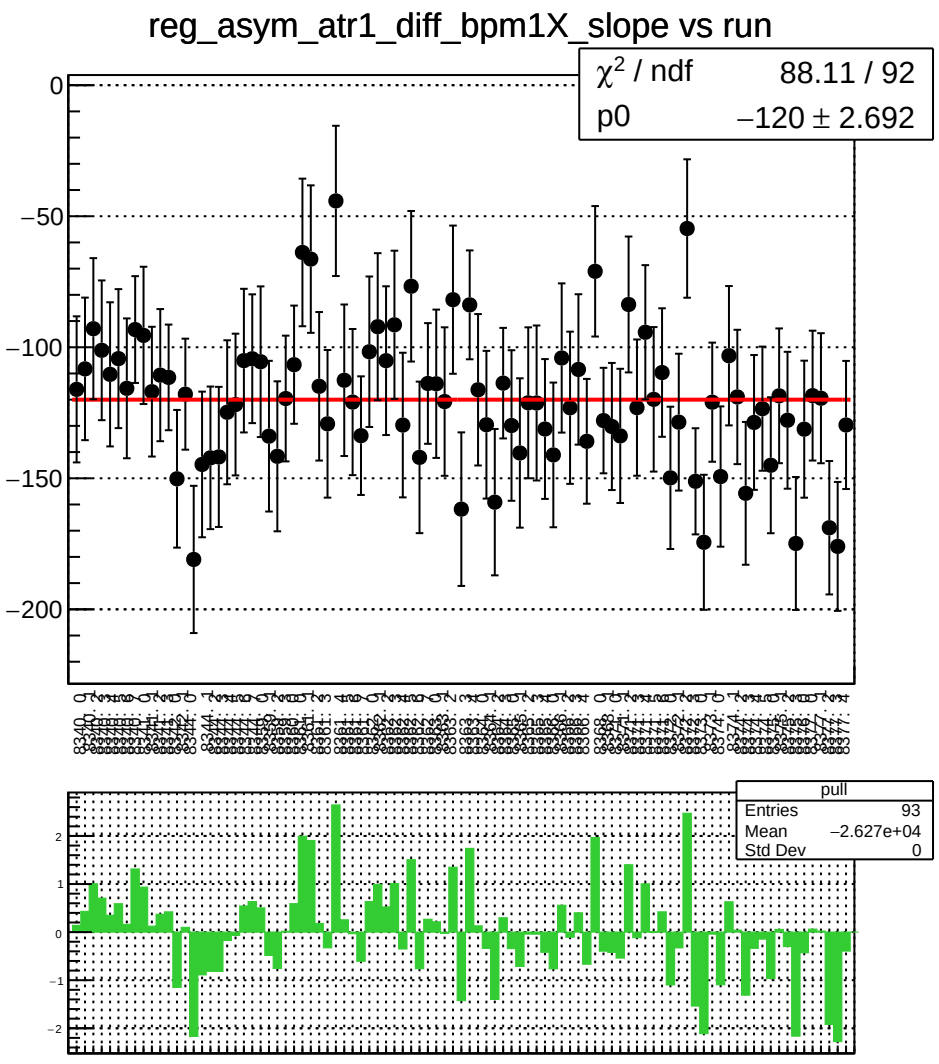

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.867 / 92
p0 75.56 ± 15.2
pull
Entries 93
Mean 289.6
Std Dev 0

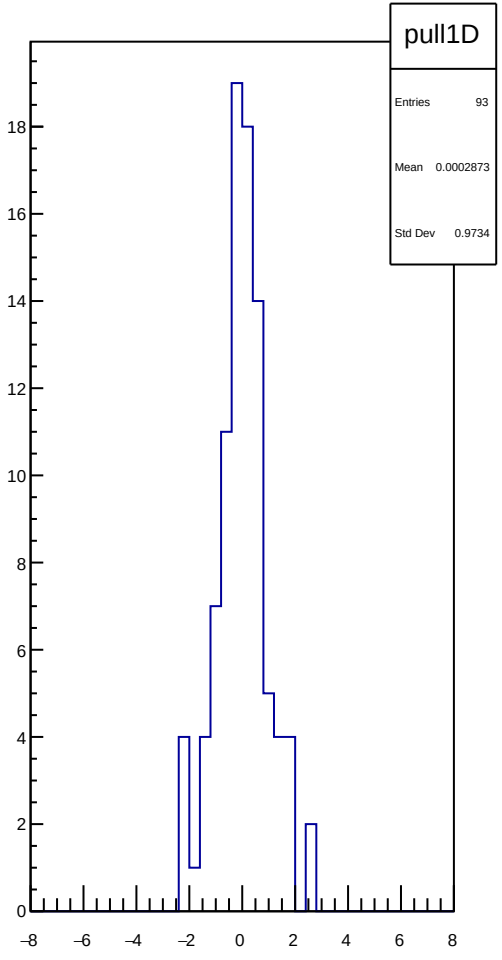

pull1D
Entries 93
Mean −0.003073
Std Dev 0.2512

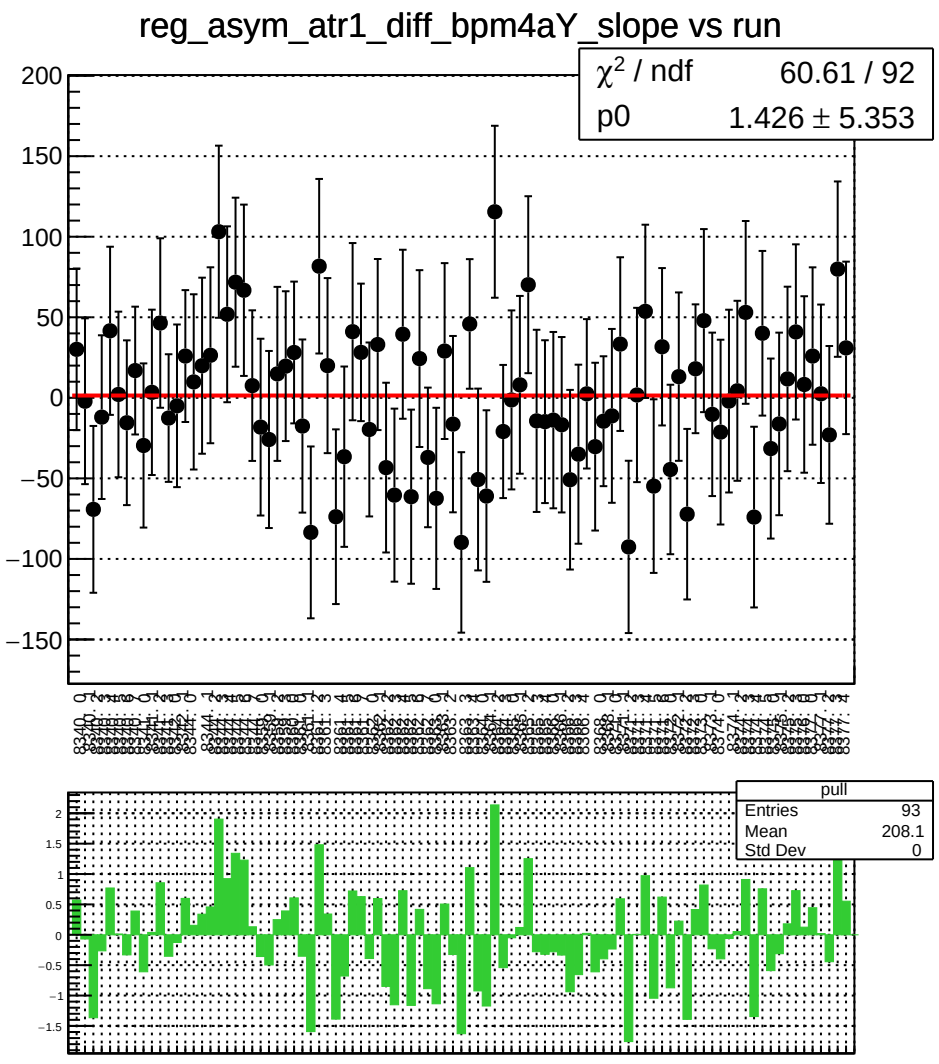

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 10.01 / 92
p0 368.1 ± 8.778
pull
Entries 93
Mean −597.1
Std Dev 0
pull1D
Entries 93
Mean −0.005068
Std Dev 0.328

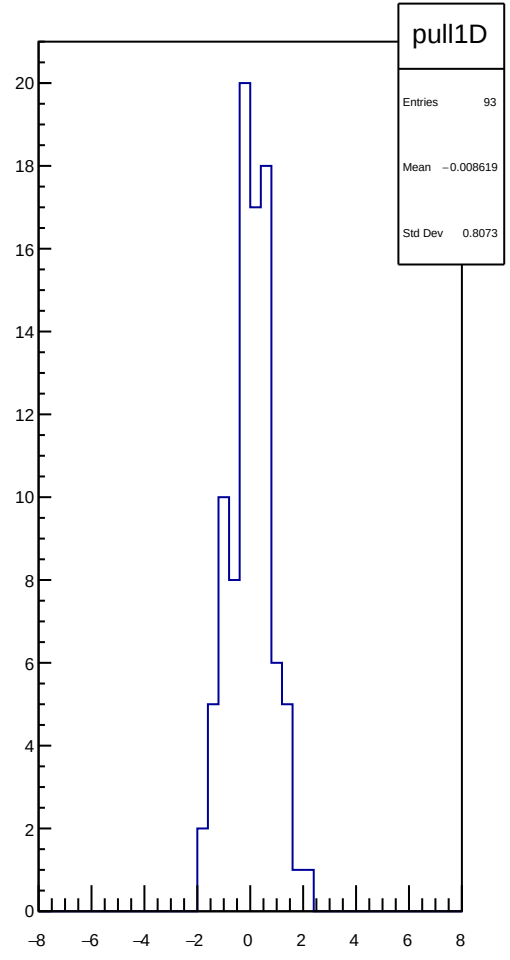

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.953 / 92
p0 48.77 ± 15.69
300
200
100
0
−100
−200
pull
Entries 93
Mean 445.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.002968
Std Dev 0.253
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

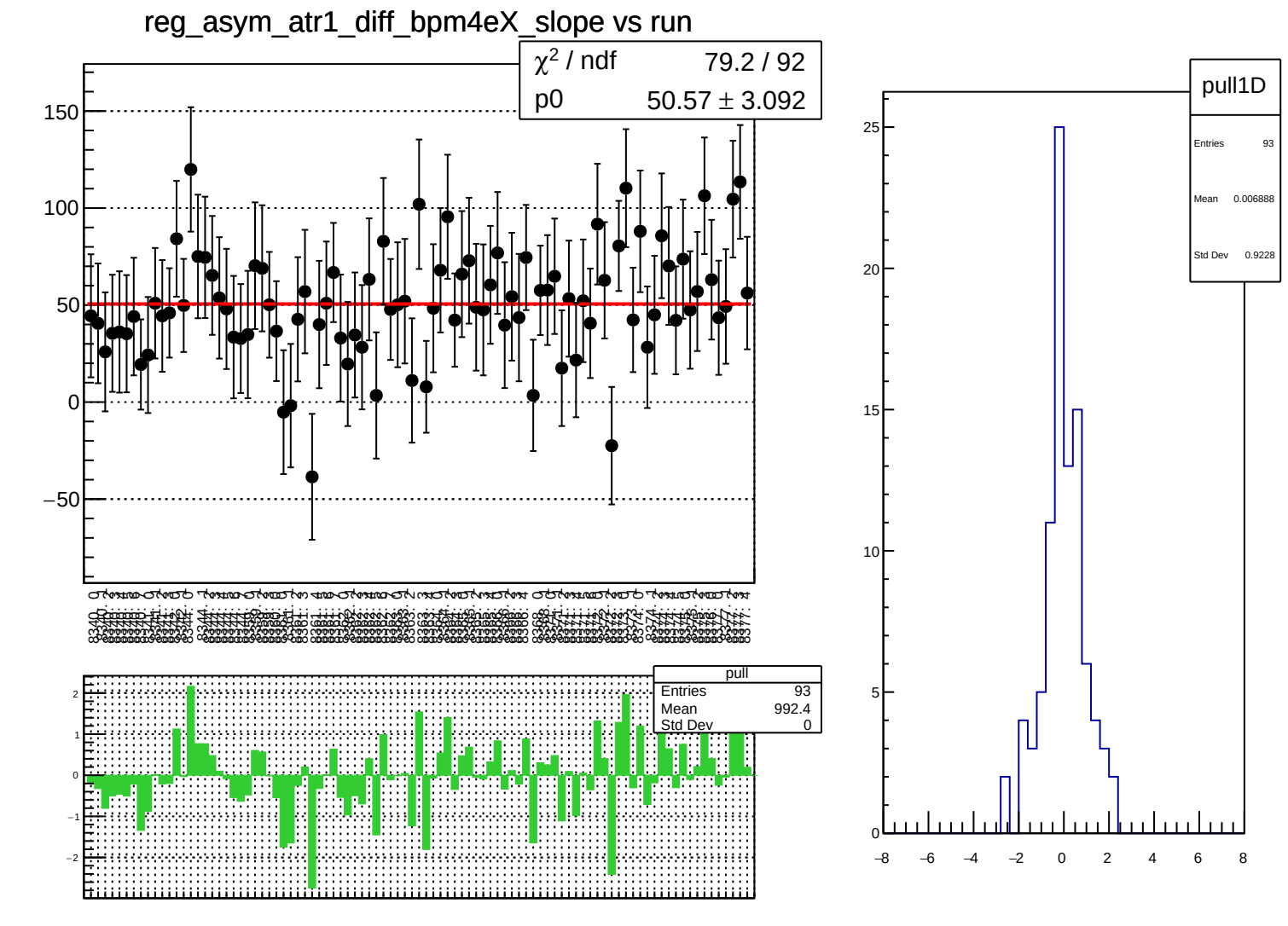

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 16.33 / 92
p0 −272.9 ± 0.9402
−255
−260
−265
−270
−275
−280
−285
−290
−295
pull
Entries 93
Mean 240.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.02683
Std Dev 0.4182
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

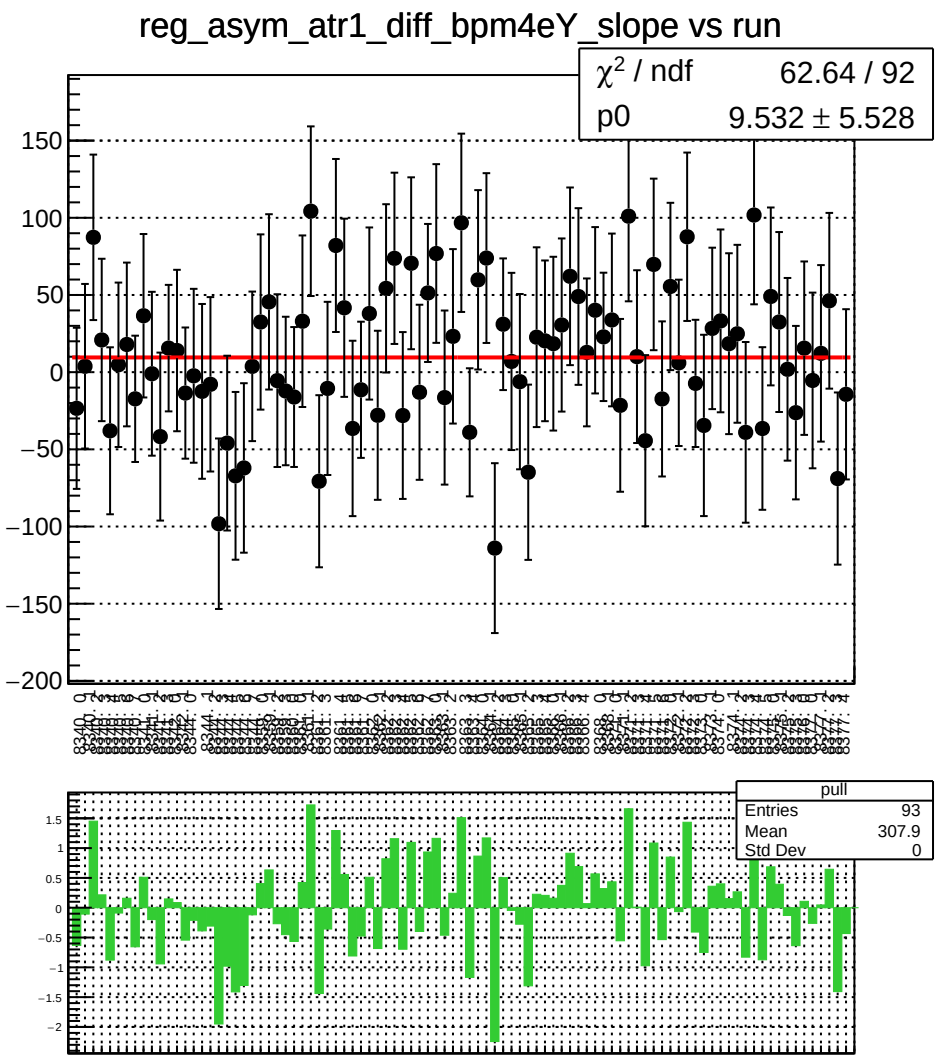

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 88.11 / 92
p0 −120 ± 2.692
pull
Entries 93
Mean −2.627e+04
Std Dev 0

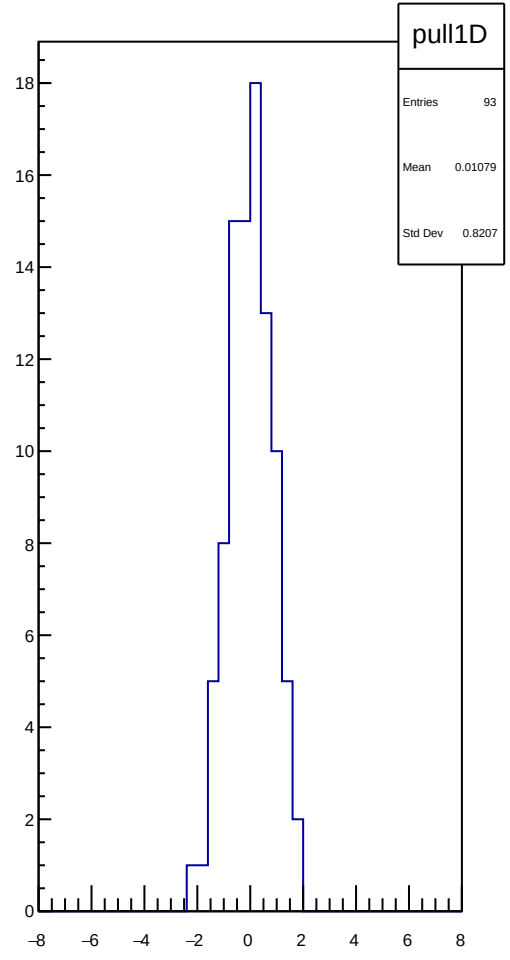

pull1D
Entries 93
Mean 0.0002873
Std Dev 0.9734

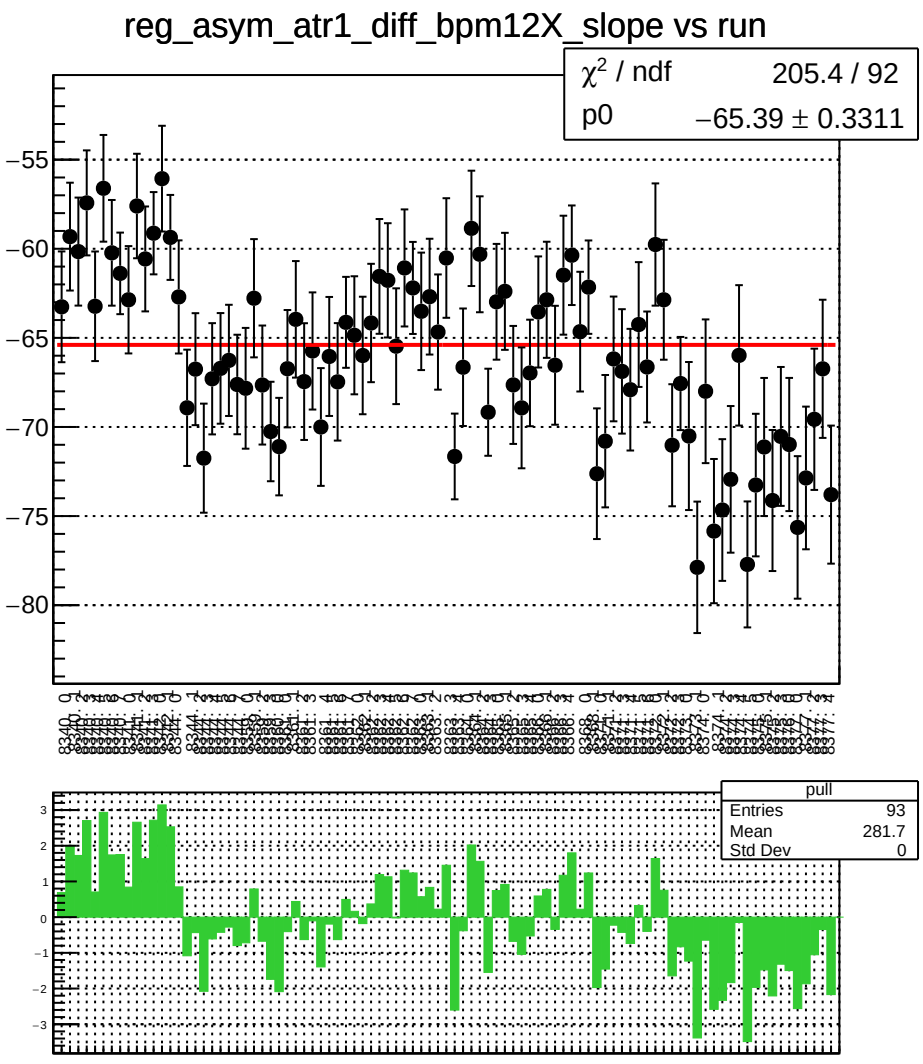

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 60.61 / 92
p0 1.426 ± 5.353
pull
Entries 93
Mean 208.1
Std Dev 0

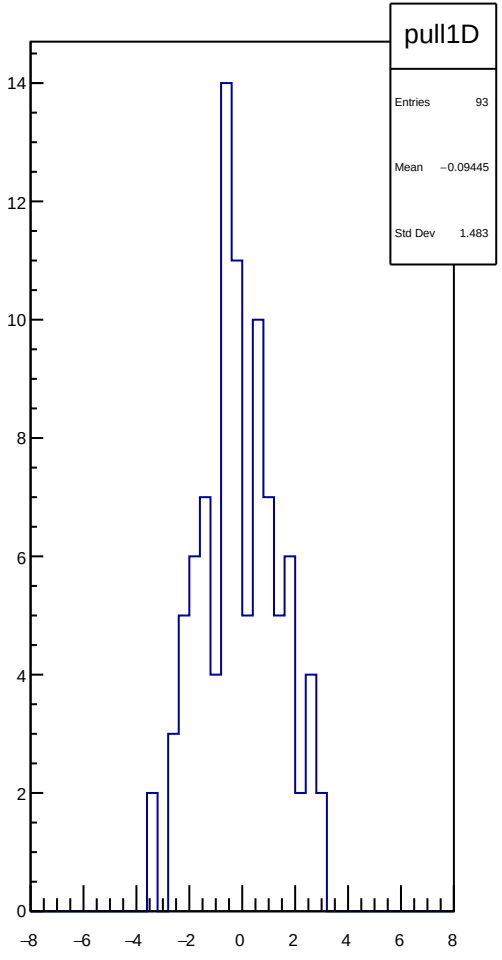

pull1D
Entries 93
Mean −0.008619
Std Dev 0.8073

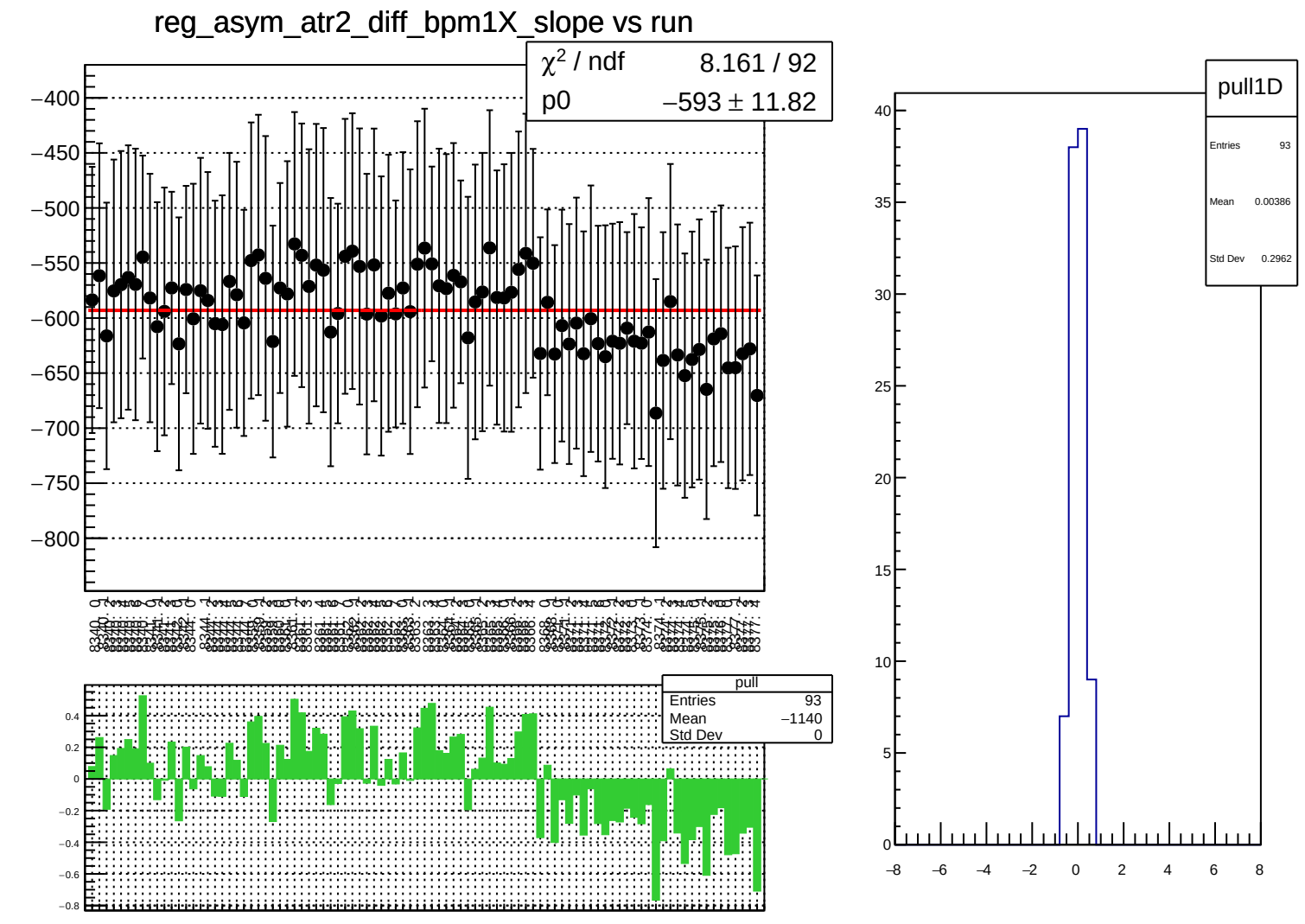

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.2 / 92
p0 50.57 ± 3.092
150
100
50
0
−50
pull
Entries 93
Mean 992.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.006888
Std Dev 0.9228
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

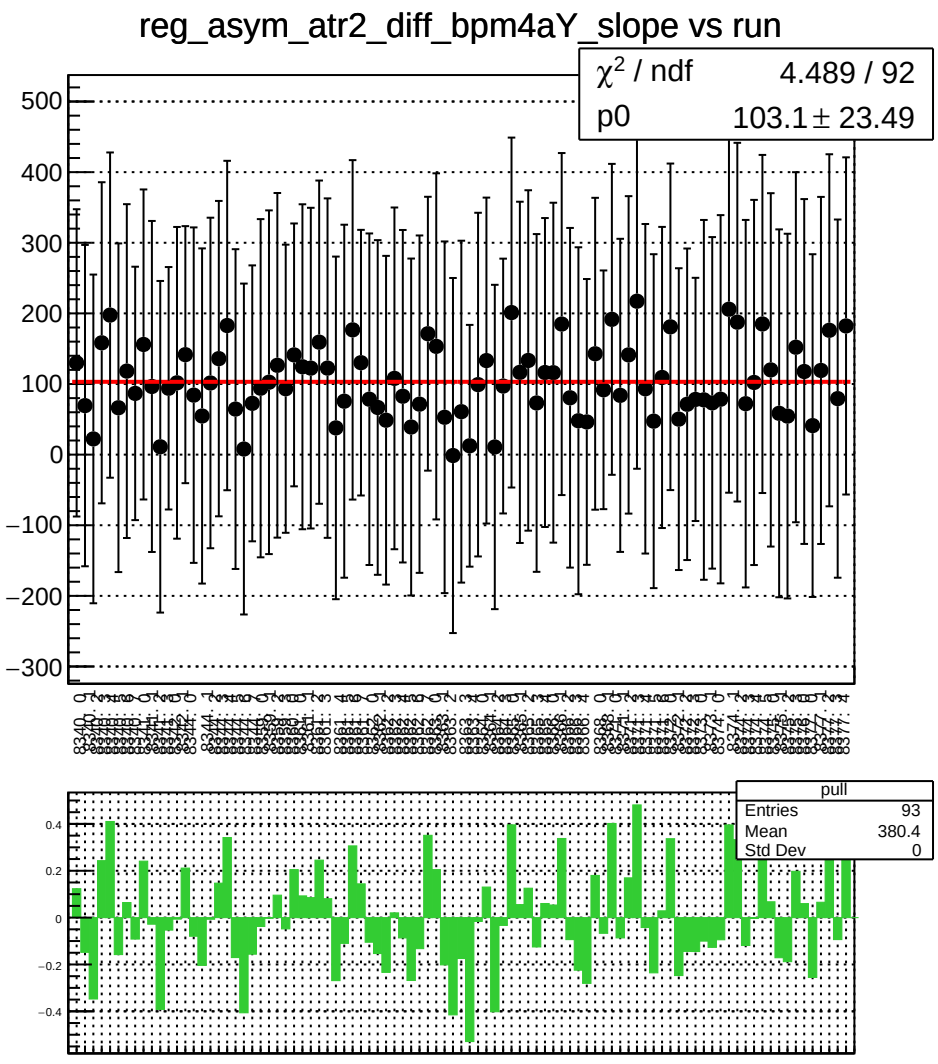

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 62.64 / 92
p0 9.532 ± 5.528
pull
Entries 93
Mean 307.9
Std Dev 0

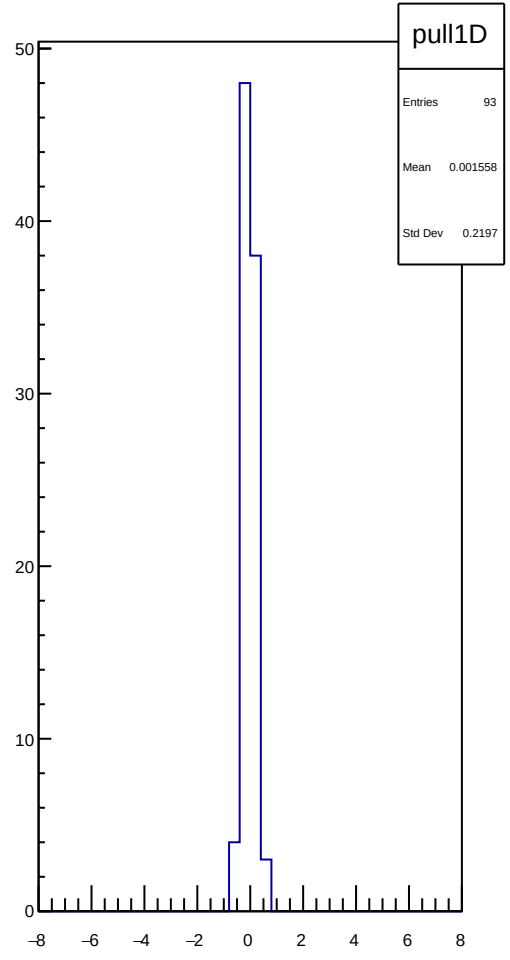

pull1D
Entries 93
Mean 0.01079
Std Dev 0.8207

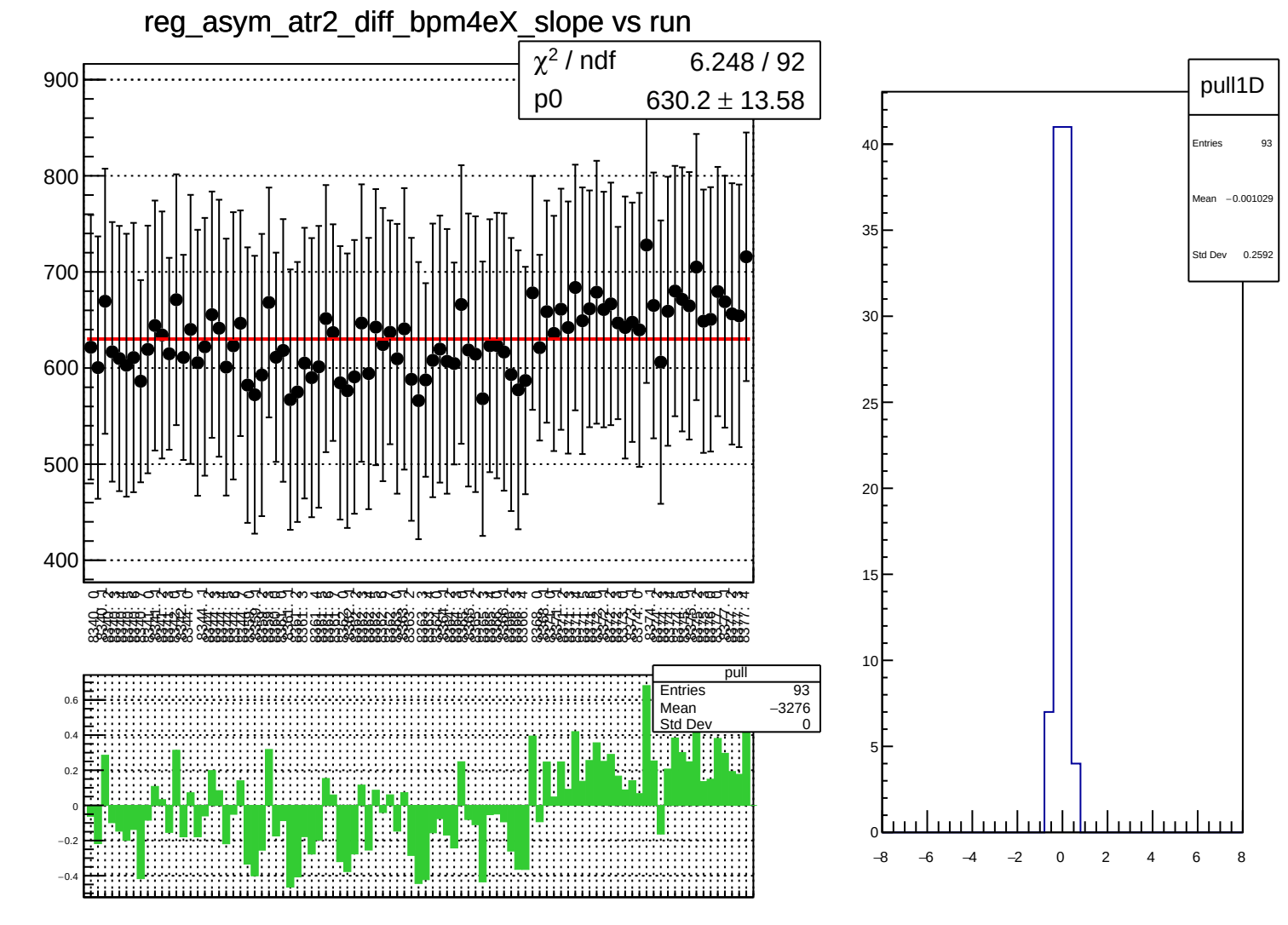

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 205.4 / 92
p0 −65.39 ± 0.3311
pull
Entries 93
Mean 281.7
Std Dev 0

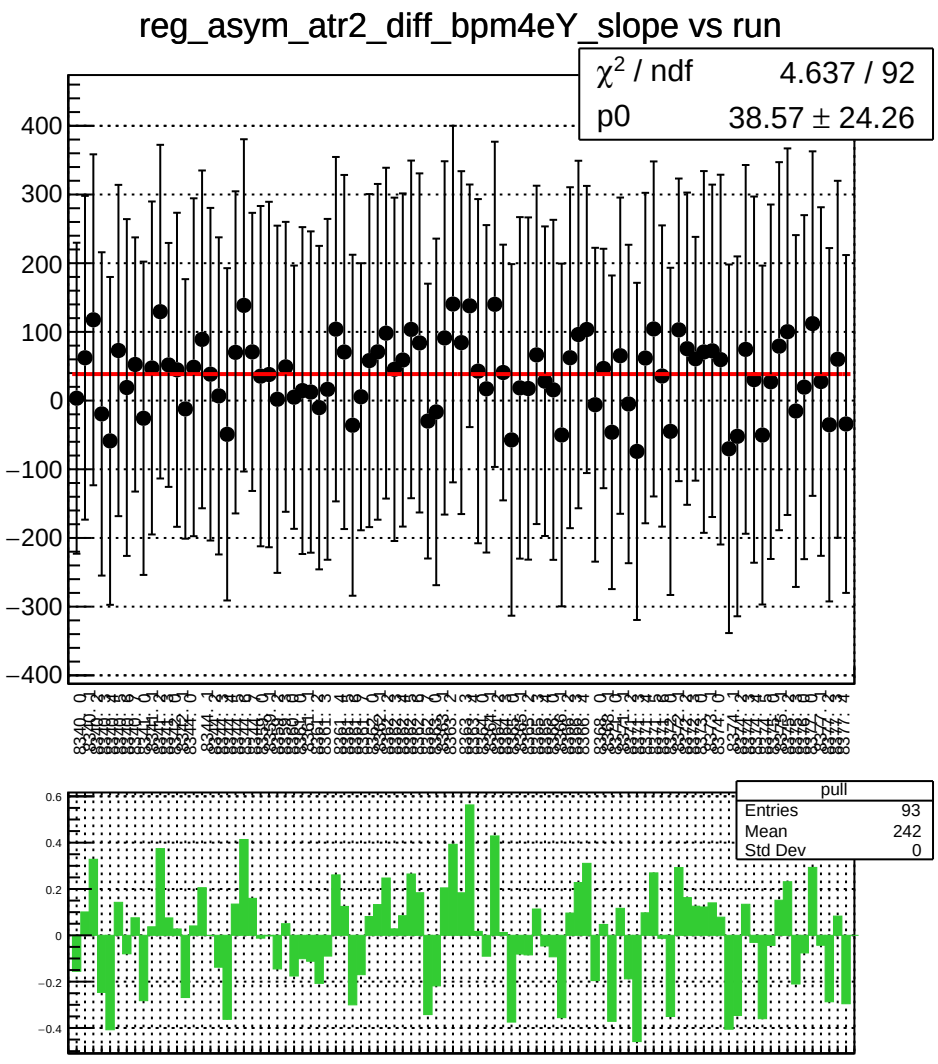

pull1D
Entries 93
Mean −0.09445
Std Dev 1.483

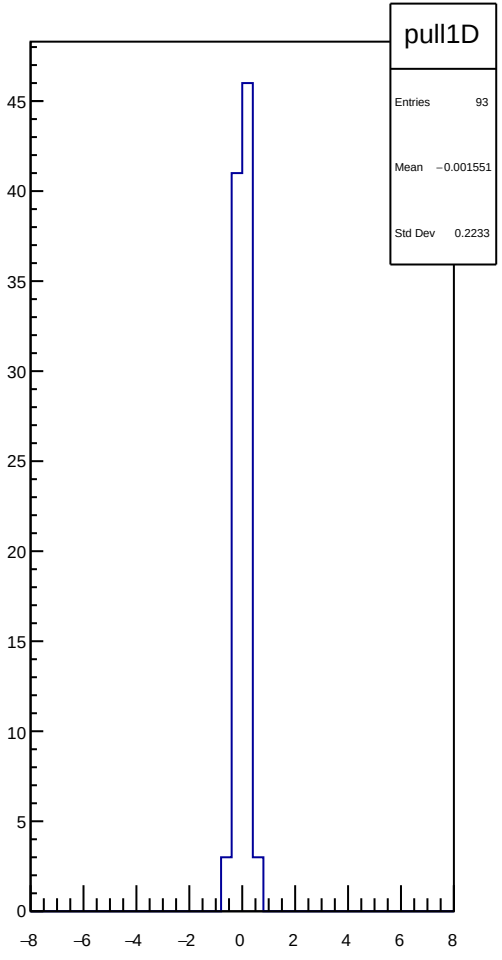

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 8.161 / 92
p0 −593 ± 11.82
pull
Entries 93
Mean −1140
Std Dev 0
pull1D
Entries 93
Mean 0.00386
Std Dev 0.2962

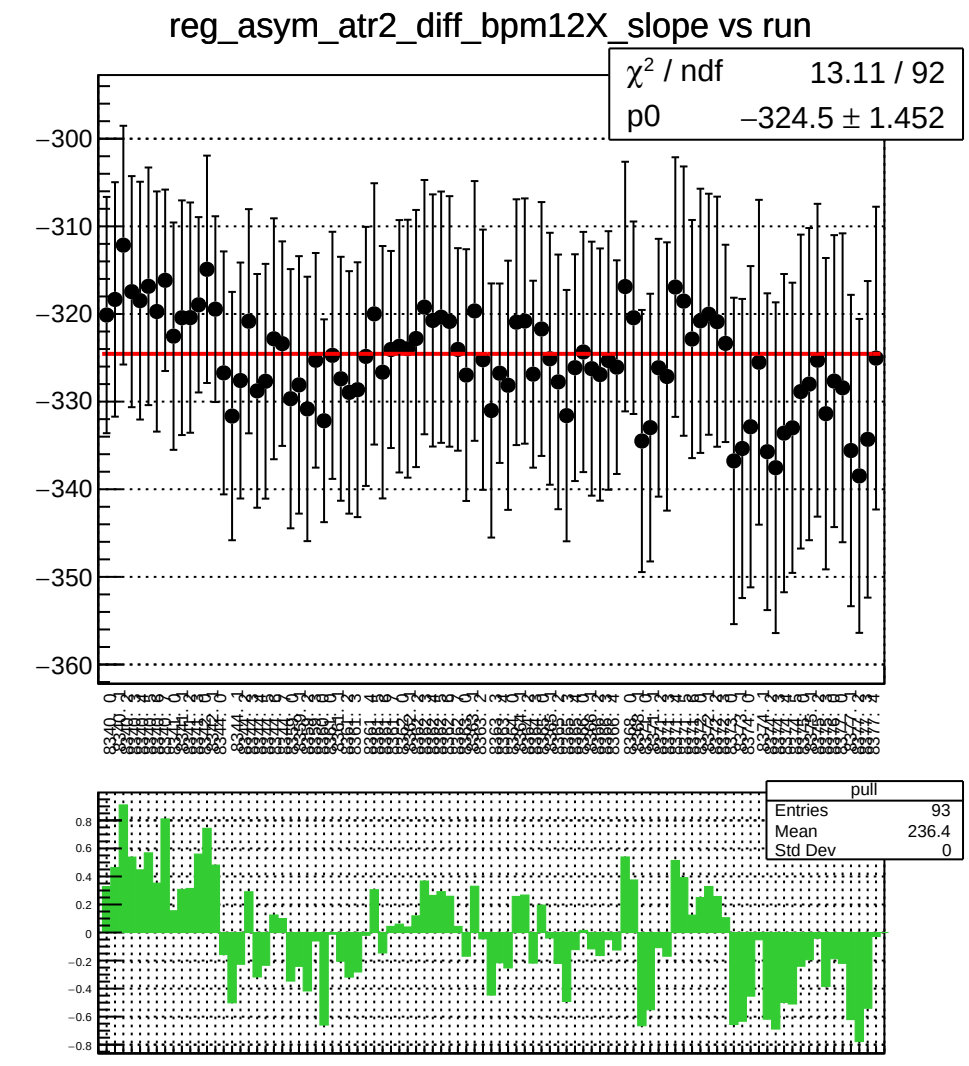

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.489 / 92
p0 103.1 ± 23.49
pull
Entries 93
Mean 380.4
Std Dev 0

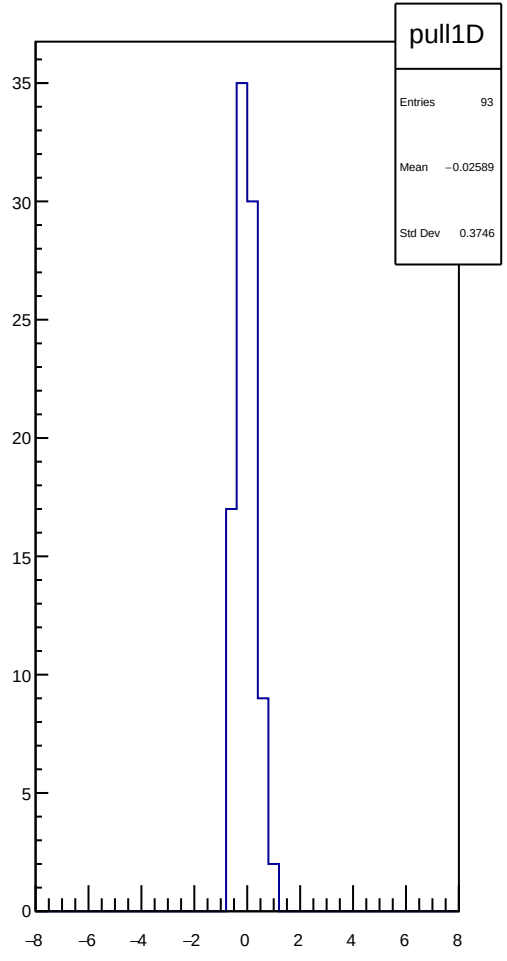

pull1D
Entries 93
Mean 0.001558
Std Dev 0.2197

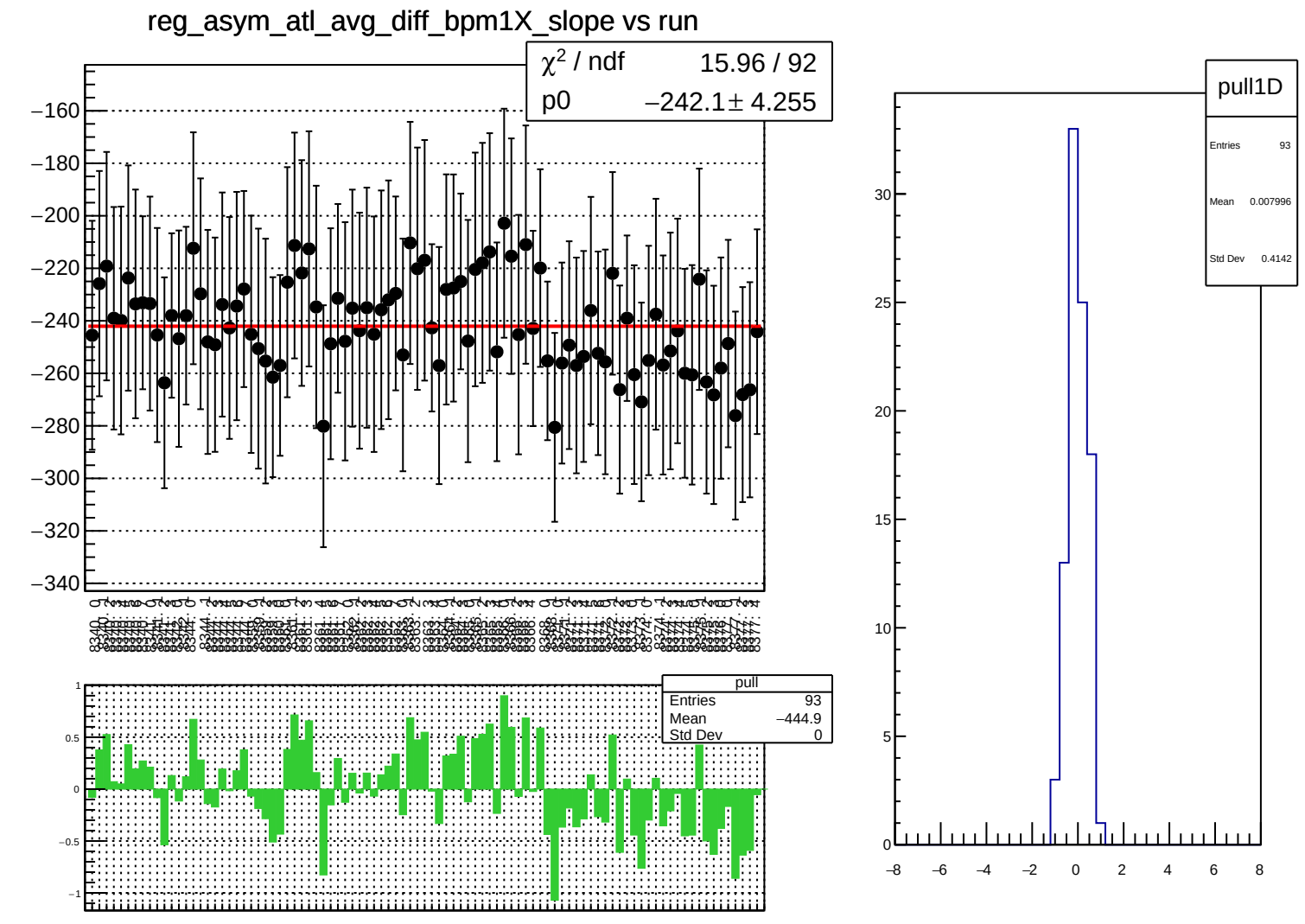

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 6.248 / 92
p0 630.2 ± 13.58
900
800
700
600
500
400
pull
Entries 93
Mean −3276
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.001029
Std Dev 0.2592
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

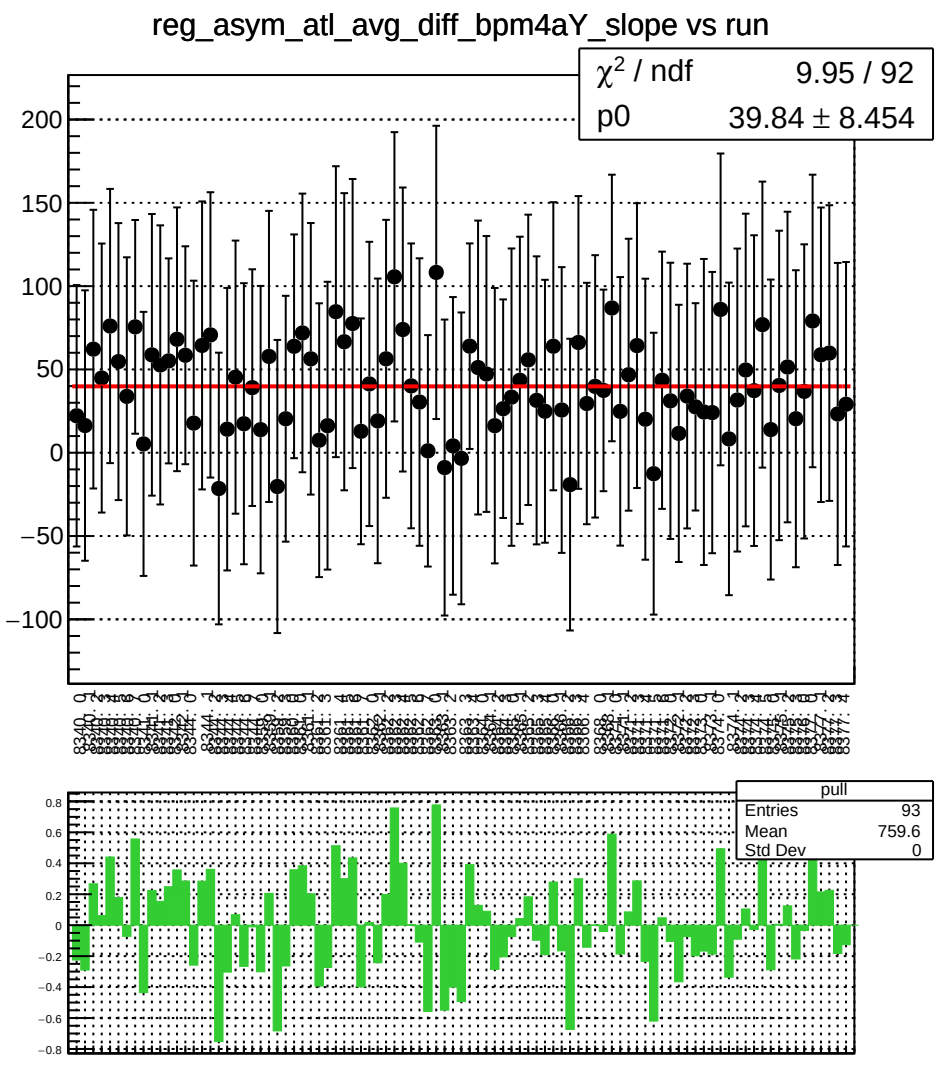

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.637 / 92
p0 38.57 ± 24.26
pull
Entries 93
Mean 242
Std Dev 0

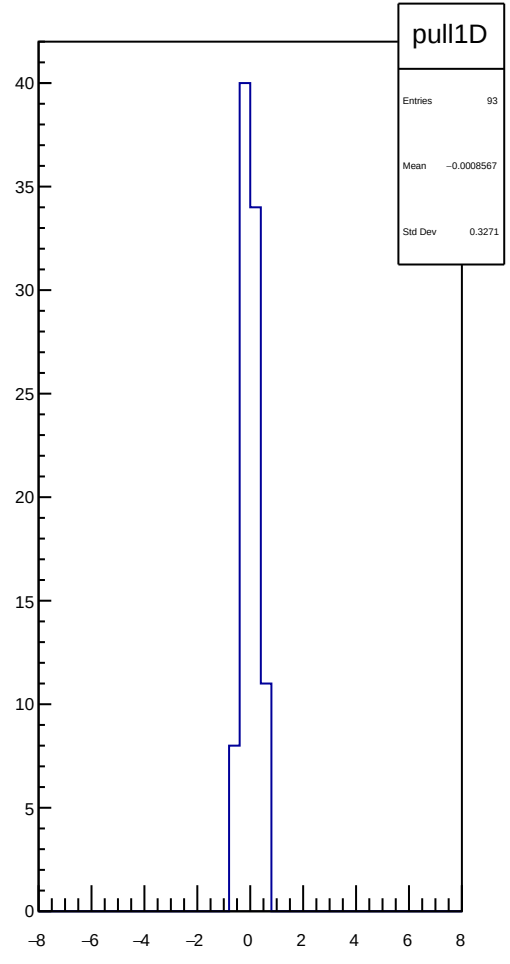

pull1D
Entries 93
Mean −0.001551
Std Dev 0.2233

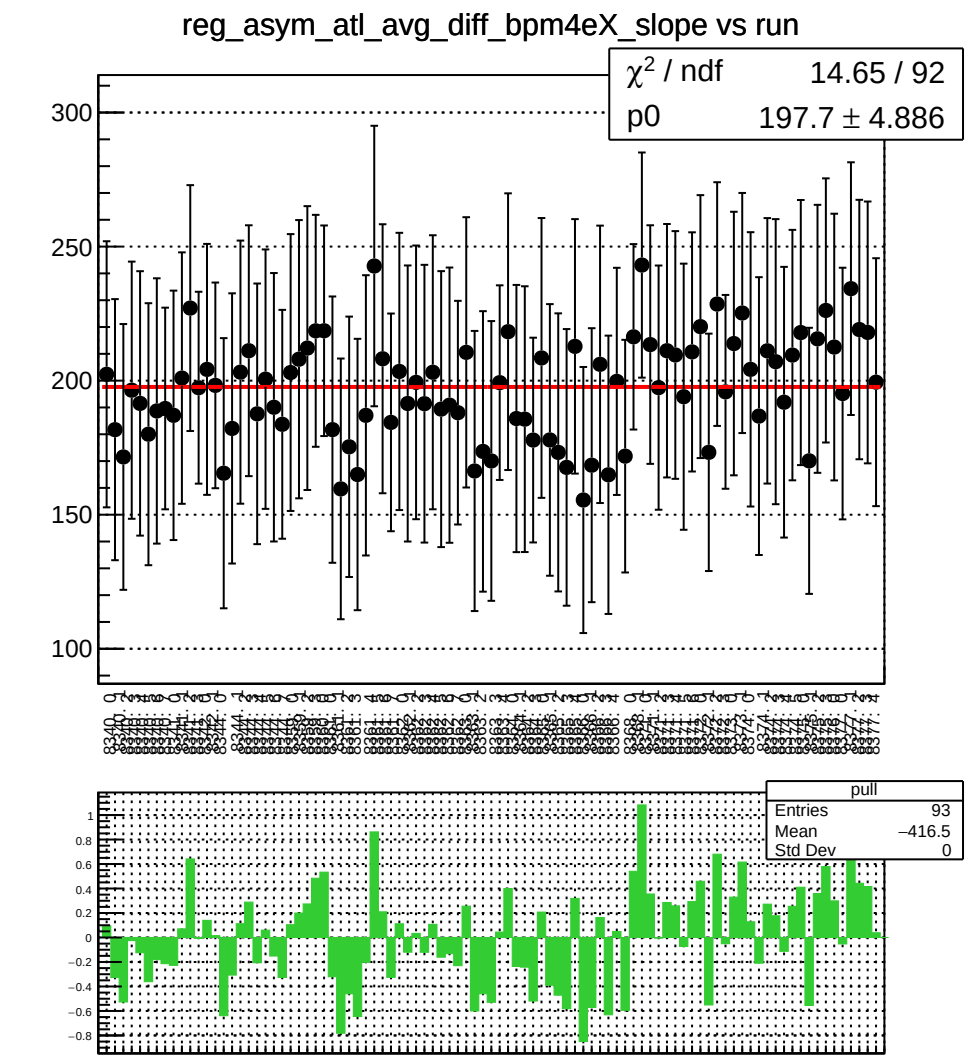

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 13.11 / 92
p0 −324.5 ± 1.452
−300
−310
−320
−330
−340
−350
−360
pull
Entries 93
Mean 236.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

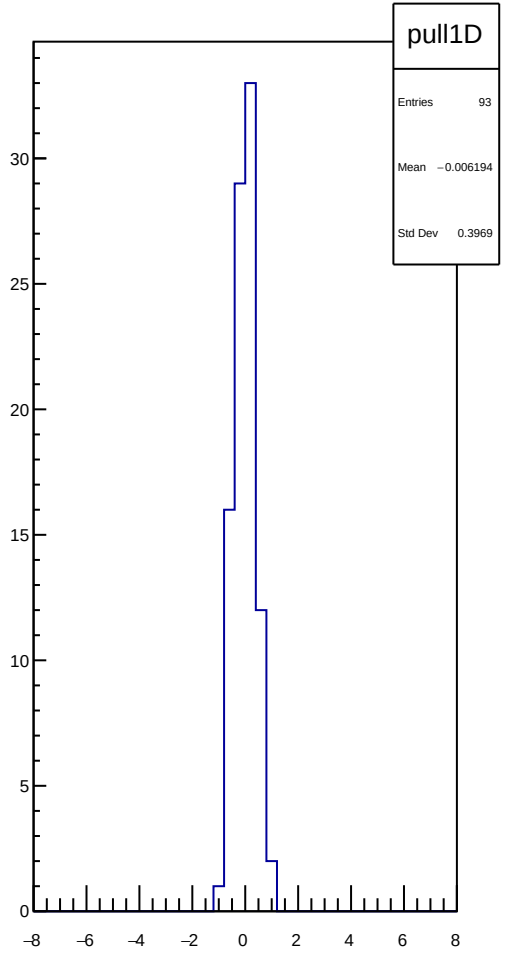

pull1D
Entries 93
Mean −0.02589
Std Dev 0.3746
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

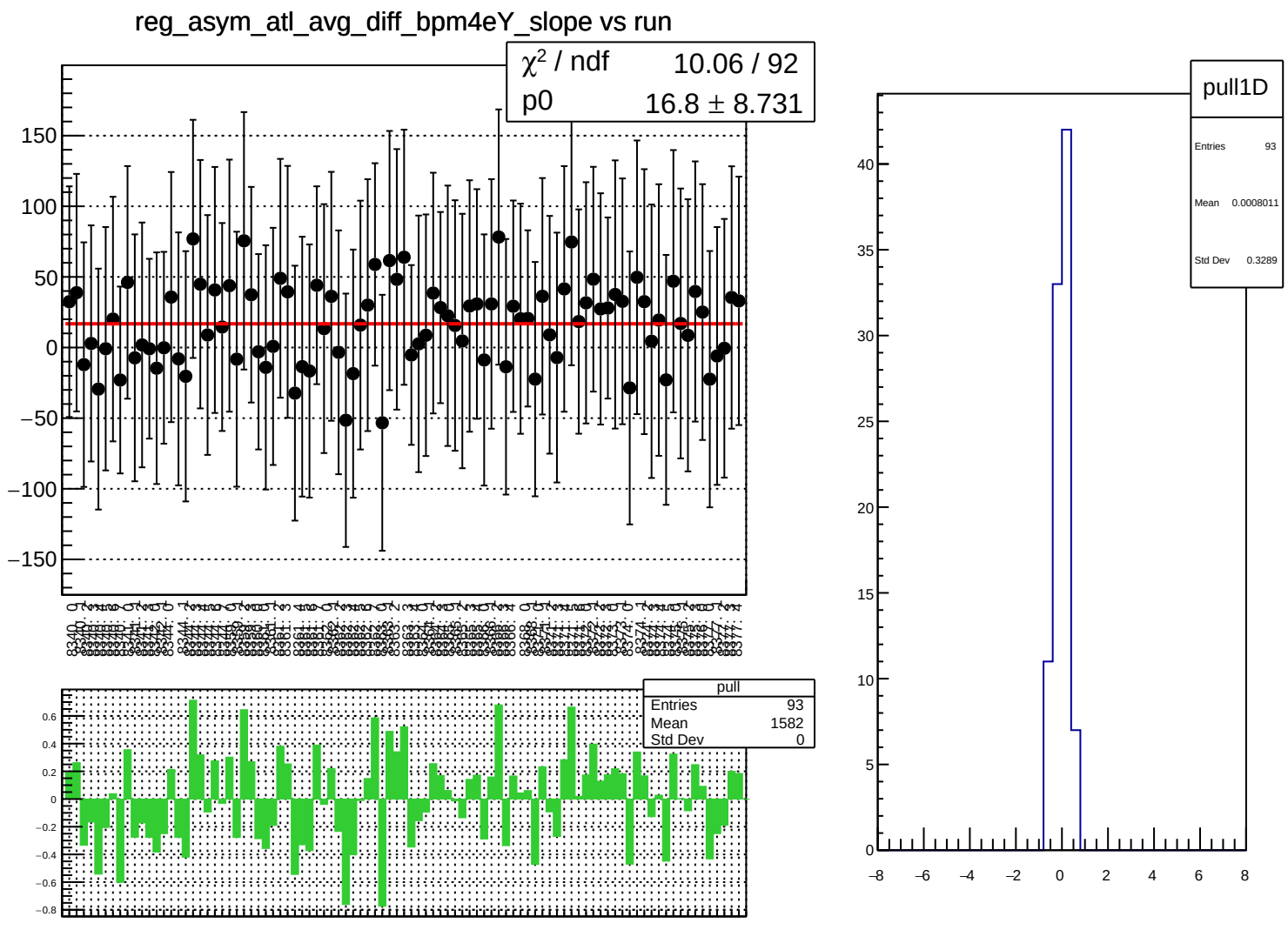

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 15.96 / 92
p0 −242.1 ± 4.255
pull
Entries 93
Mean −444.9
Std Dev 0
pull1D
Entries 93
Mean 0.007996
Std Dev 0.4142

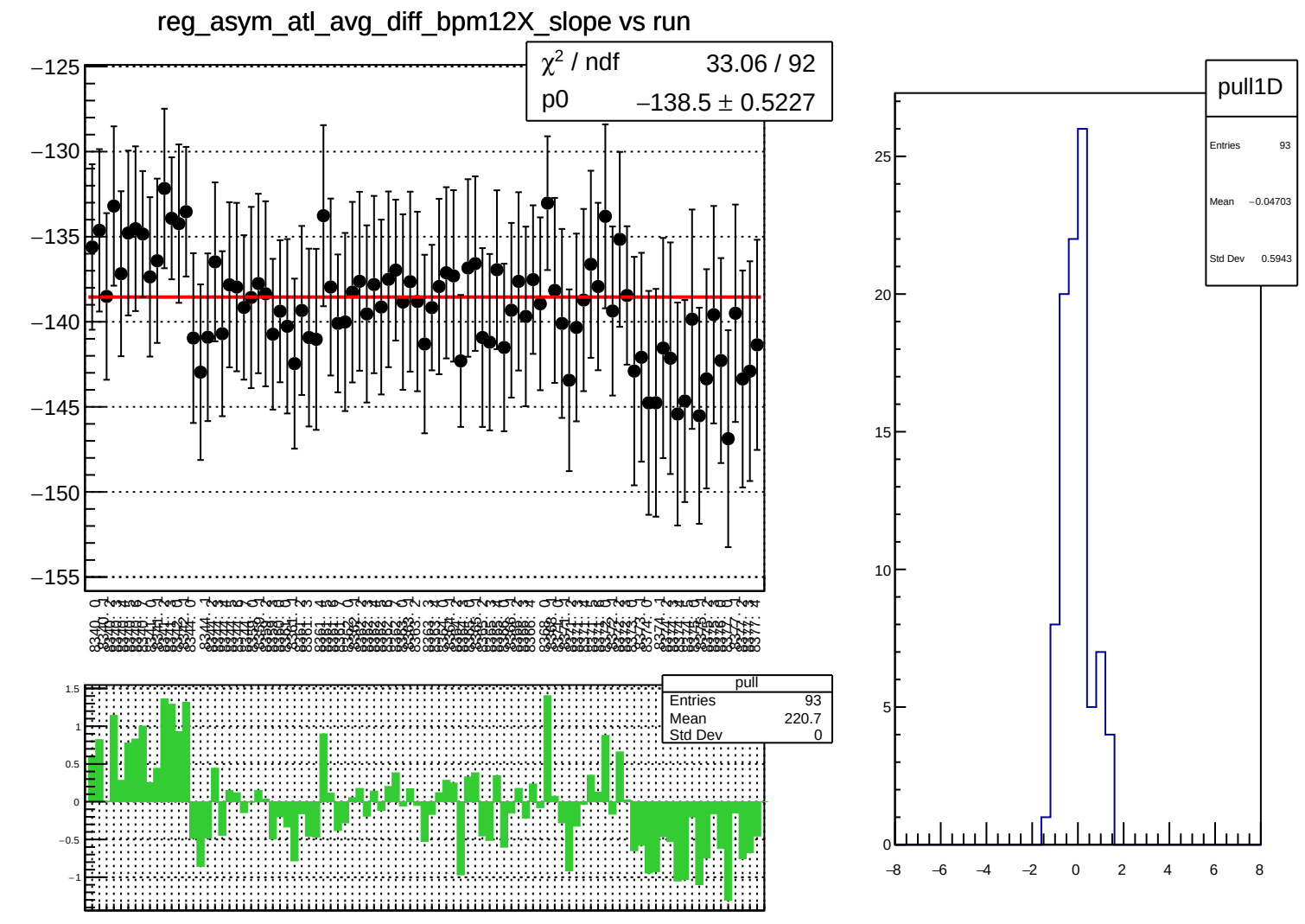

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.95 / 92
p0 39.84 ± 8.454
200
150
100
50
0
−50
−100
pull
Entries 93
Mean 759.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

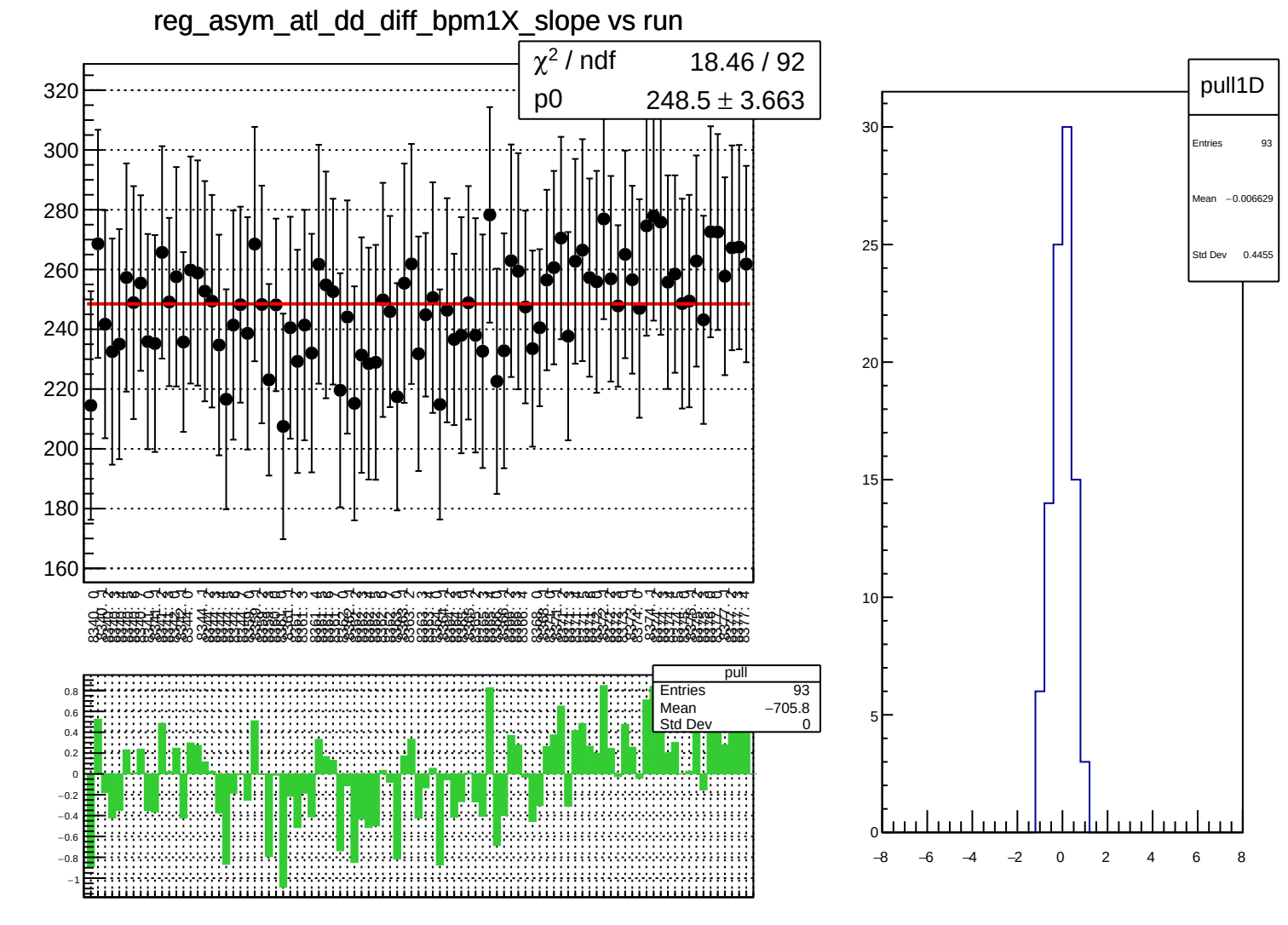

pull1D
Entries 93
Mean −0.0008567
Std Dev 0.3271
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

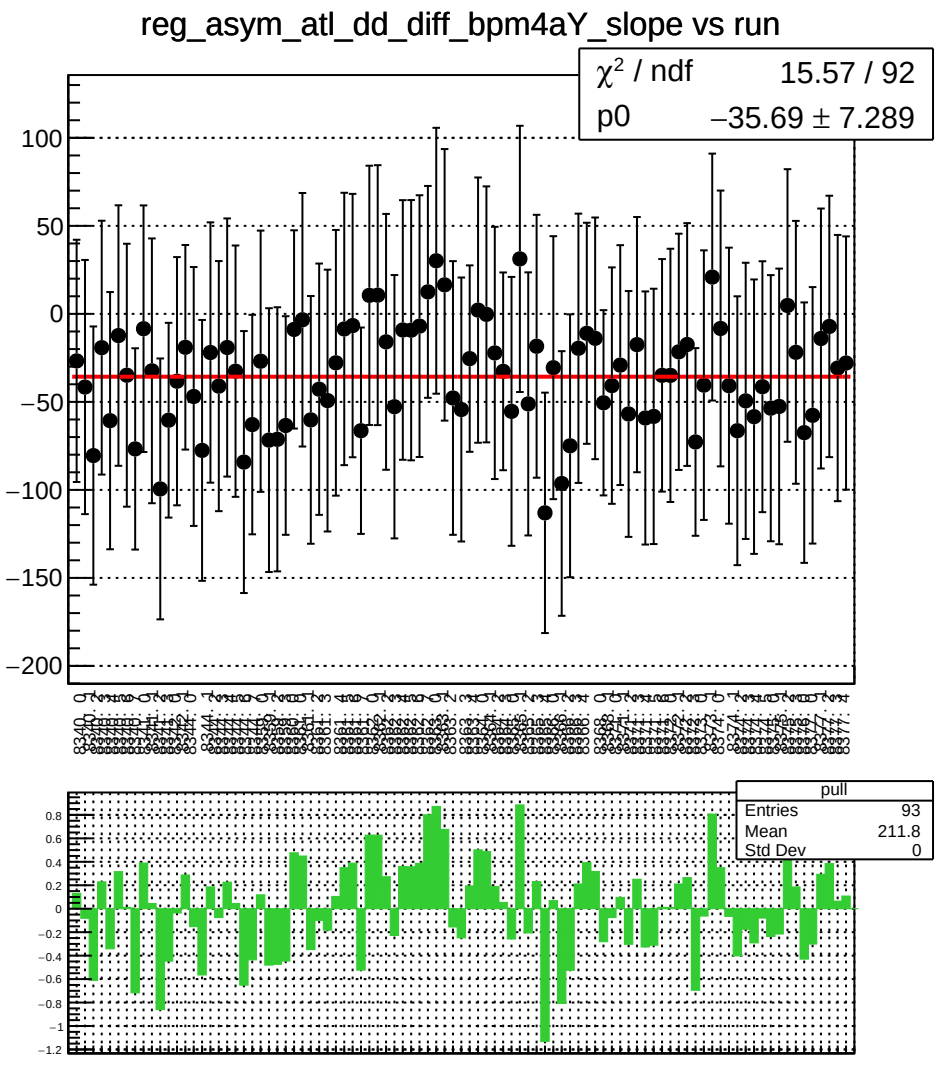

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.65 / 92
p0 197.7 ± 4.886
300
250
200
150
100
pull
Entries 93
Mean −416.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

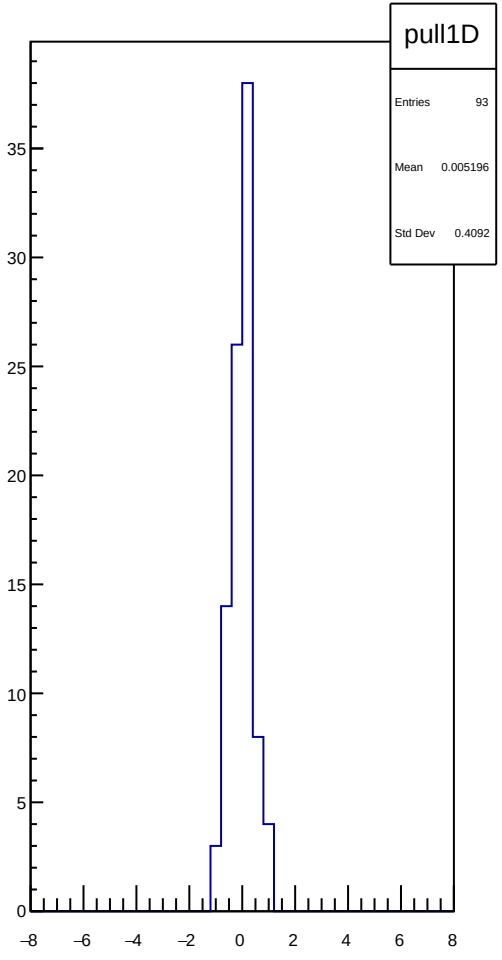

pull1D
Entries 93
Mean −0.006194
Std Dev 0.3969
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

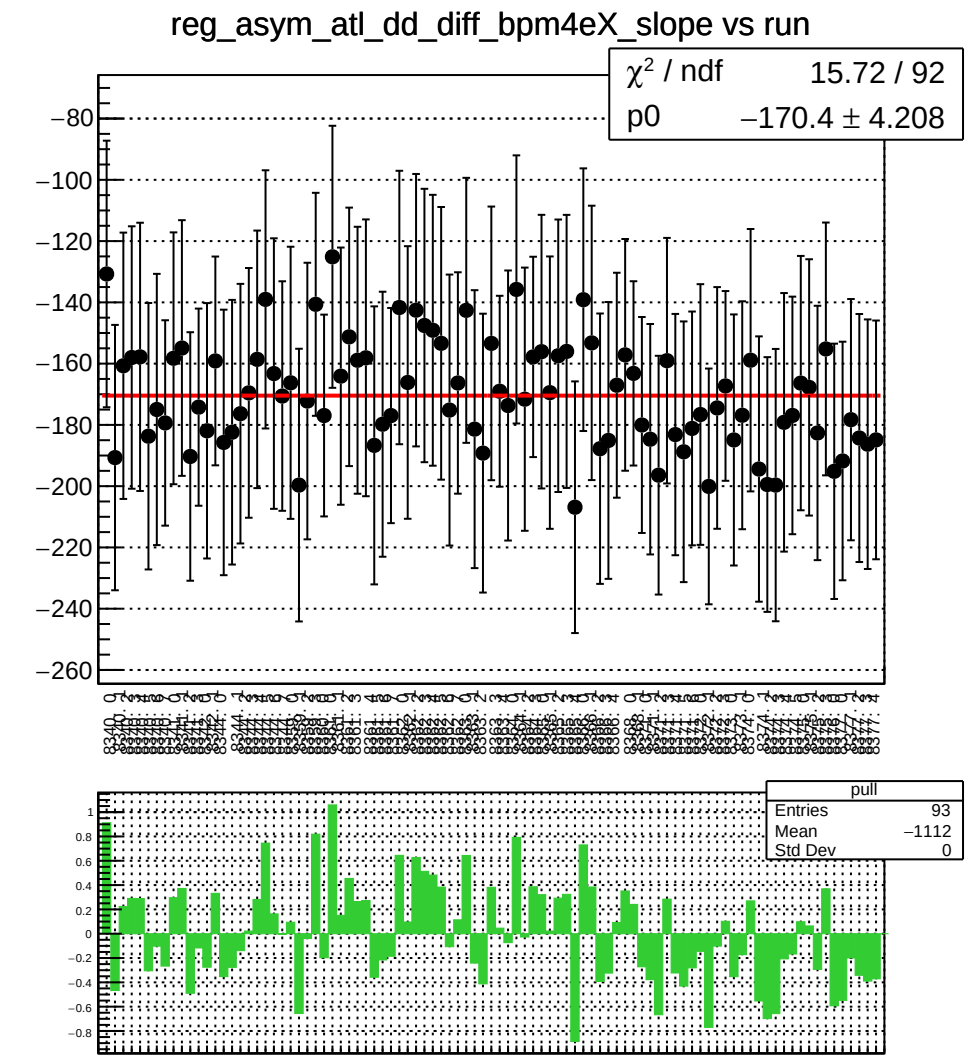

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.06 / 92
p0 16.8 ± 8.731
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 1582
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.0008011
Std Dev 0.3289
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

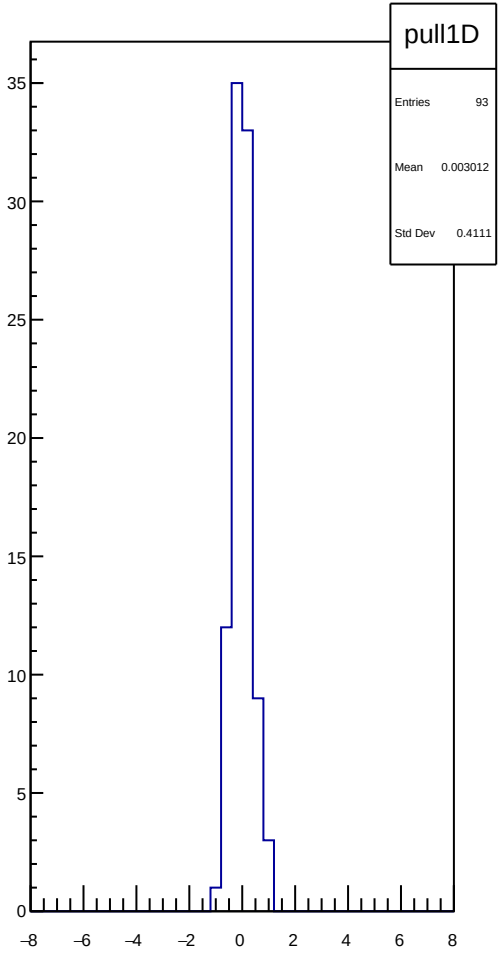

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 33.06 / 92
p0 −138.5 ± 0.5227
pull
Entries 93
Mean 220.7
Std Dev 0
pull1D
Entries 93
Mean −0.04703
Std Dev 0.5943

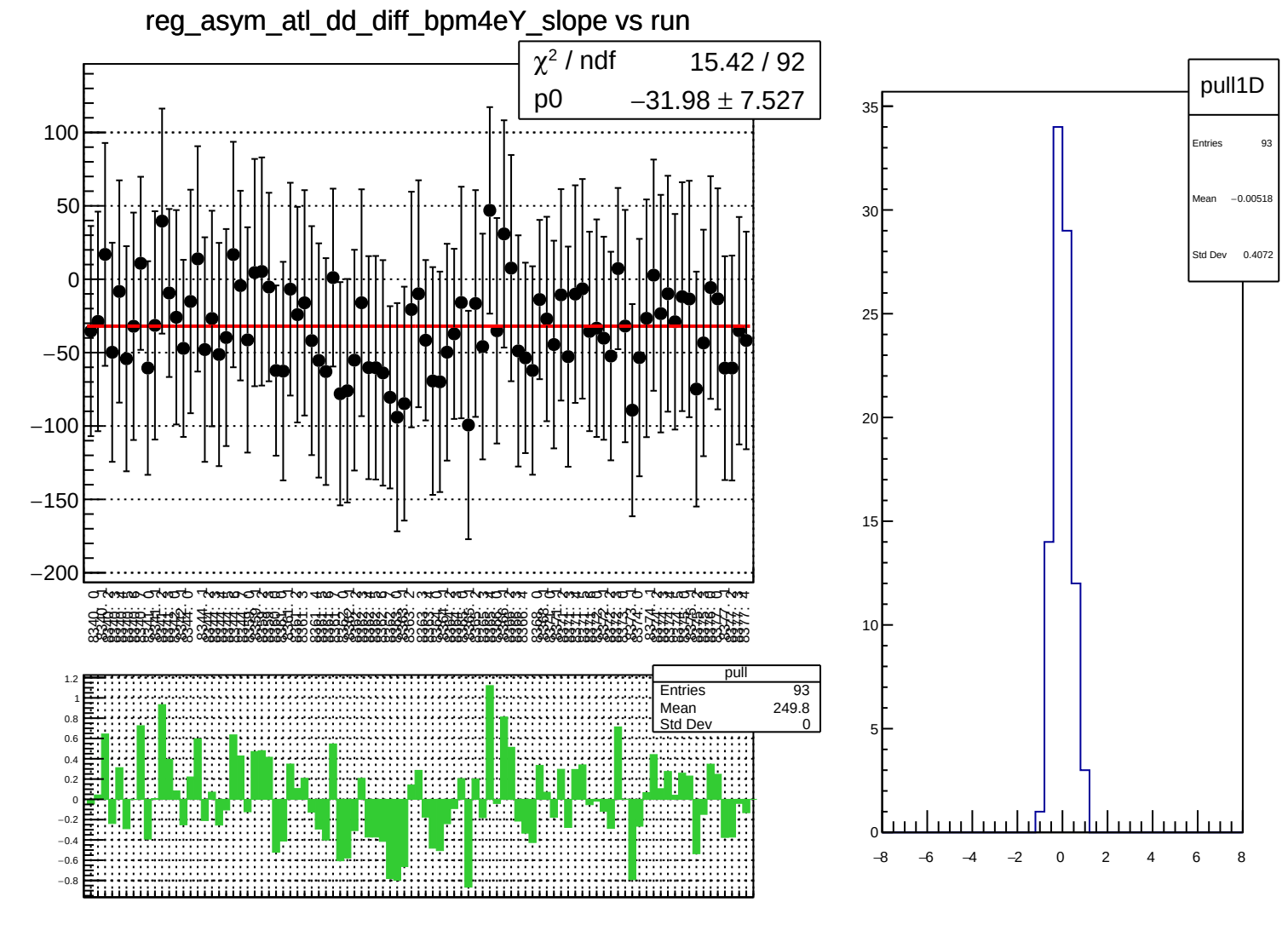

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 18.46 / 92
p0 248.5 ± 3.663
320
300
280
260
240
220
200
180
160
pull
Entries 93
Mean −705.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean −0.006629
Std Dev 0.4455
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

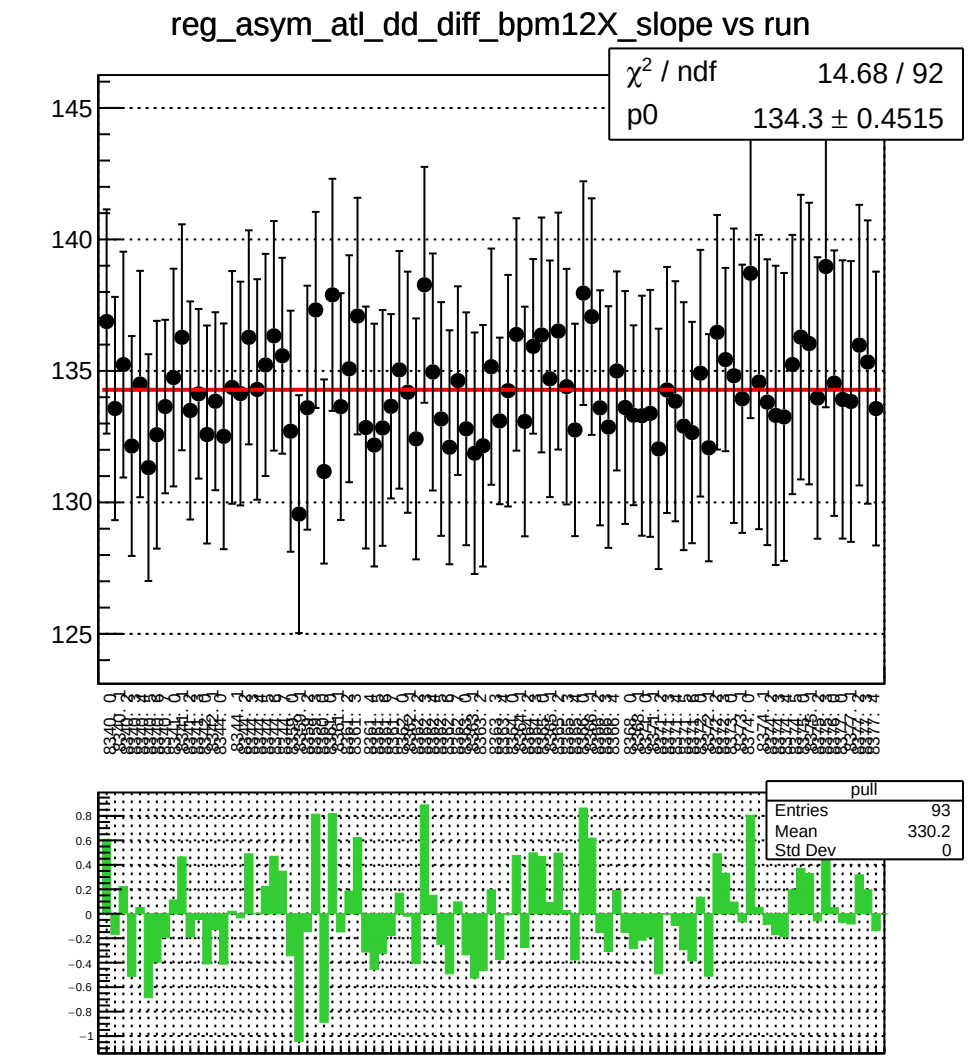

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.57 / 92
p0 −35.69 ± 7.289
pull
Entries 93
Mean 211.8
Std Dev 0

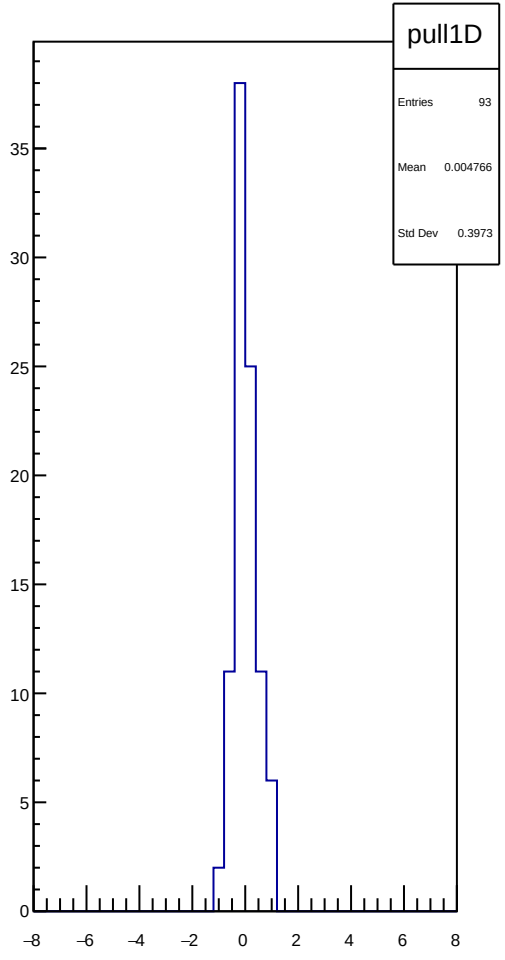

pull1D
Entries 93
Mean 0.005196
Std Dev 0.4092

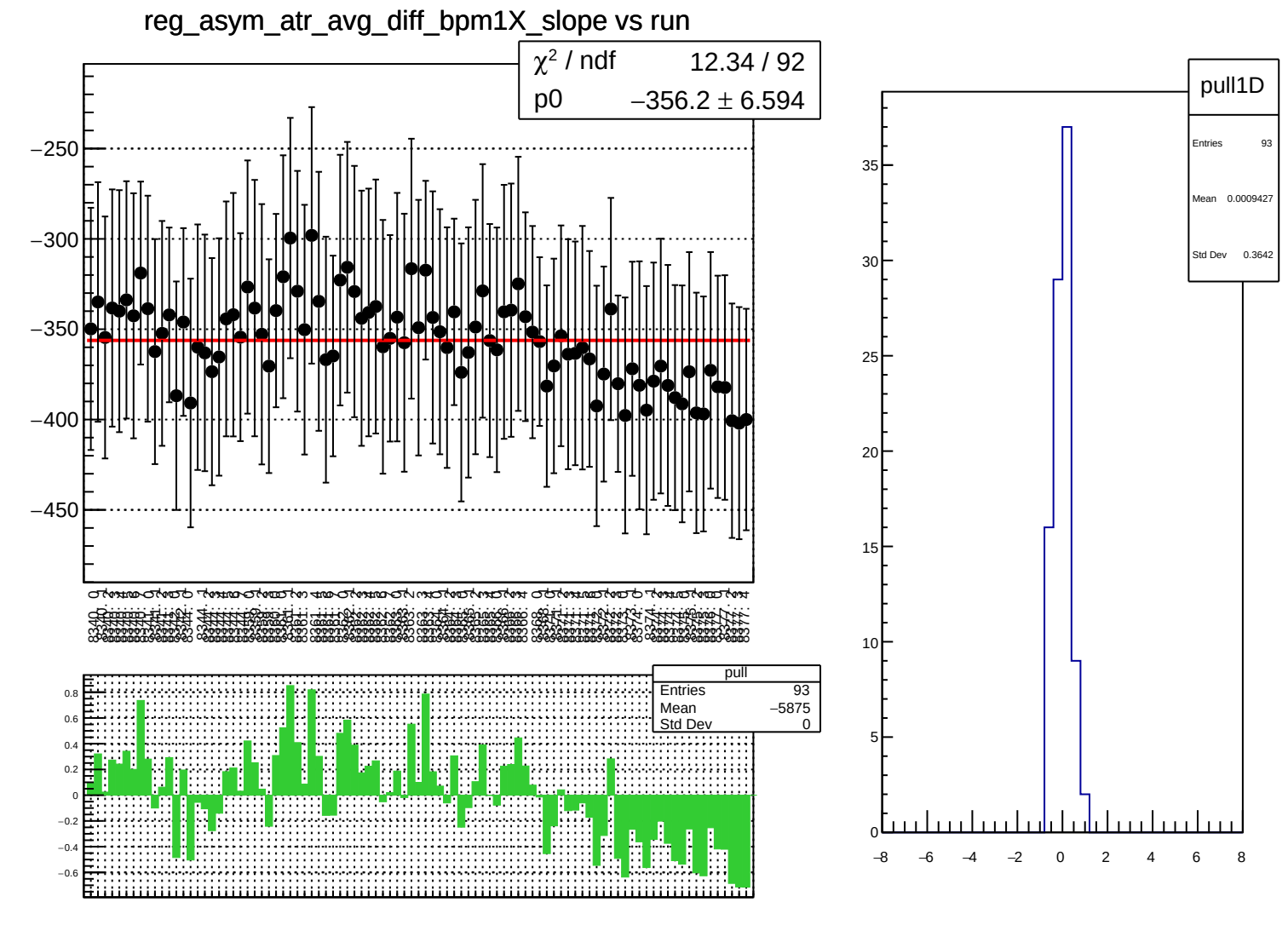

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.72 / 92
p0 −170.4 ± 4.208
pull
Entries 93
Mean −1112
Std Dev 0

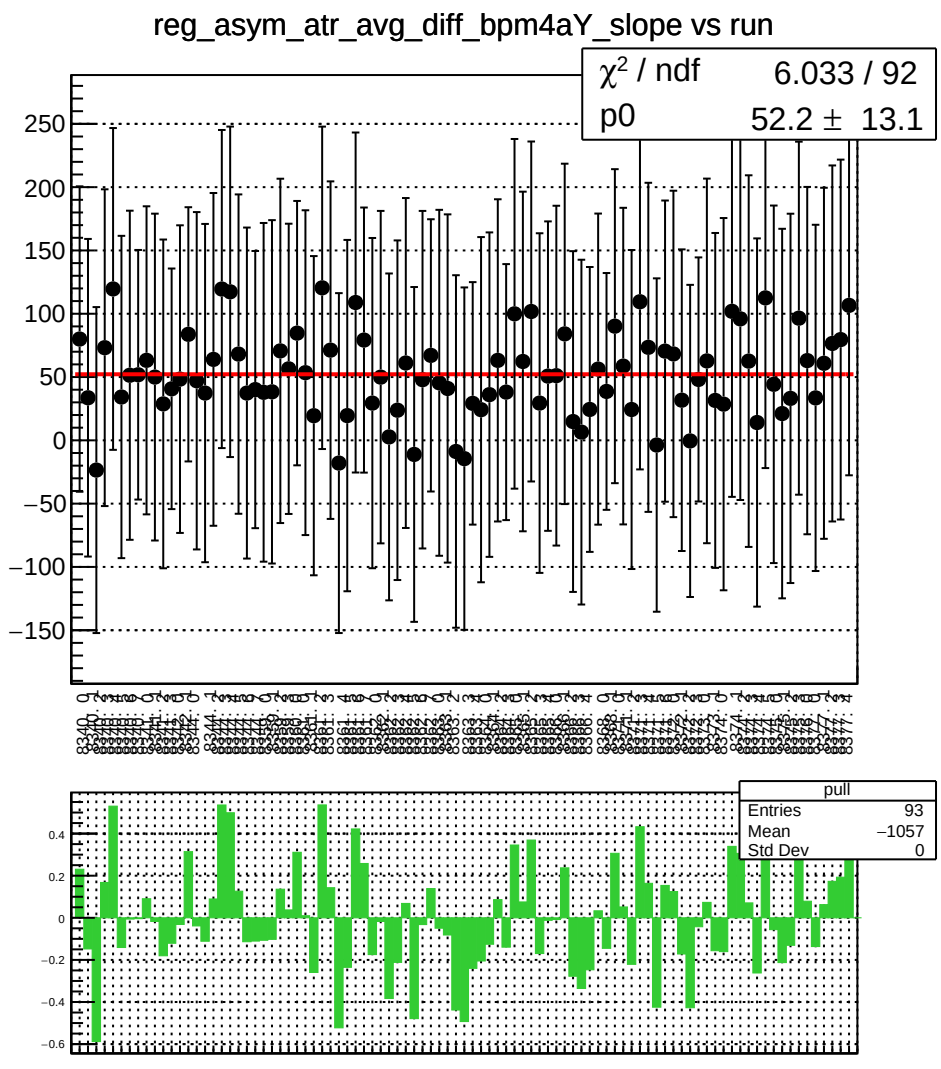

pull1D
Entries 93
Mean 0.003012
Std Dev 0.4111

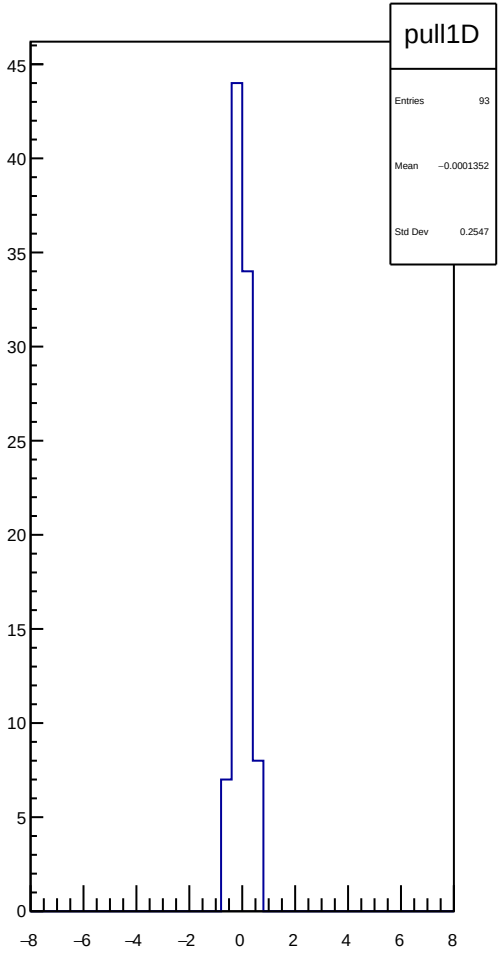

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.42 / 92
p0 −31.98 ± 7.527
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 249.8
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.00518
Std Dev 0.4072
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

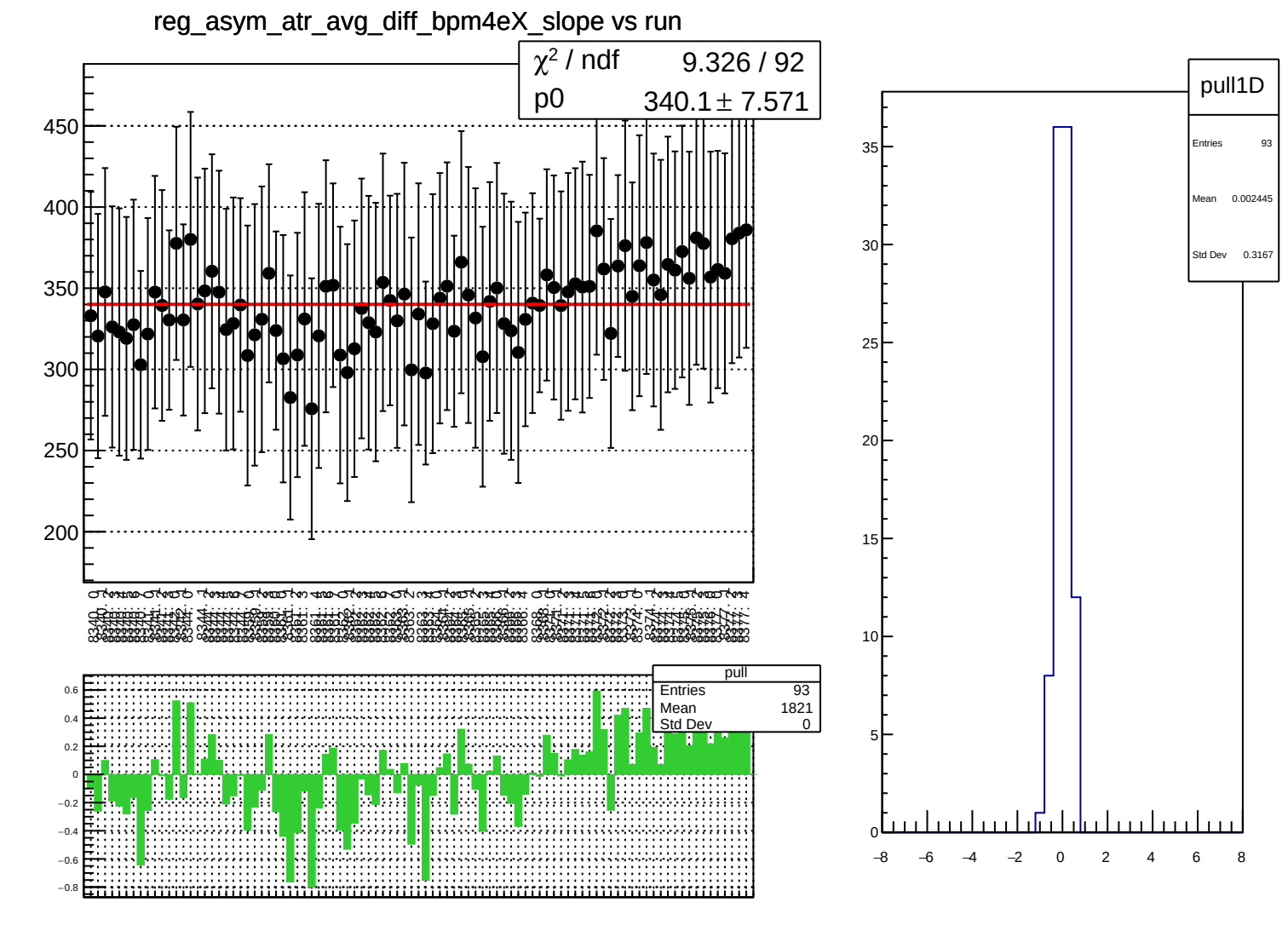

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 14.68 / 92
p0 134.3 ± 0.4515
145
140
135
130
125
pull
Entries 93
Mean 330.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

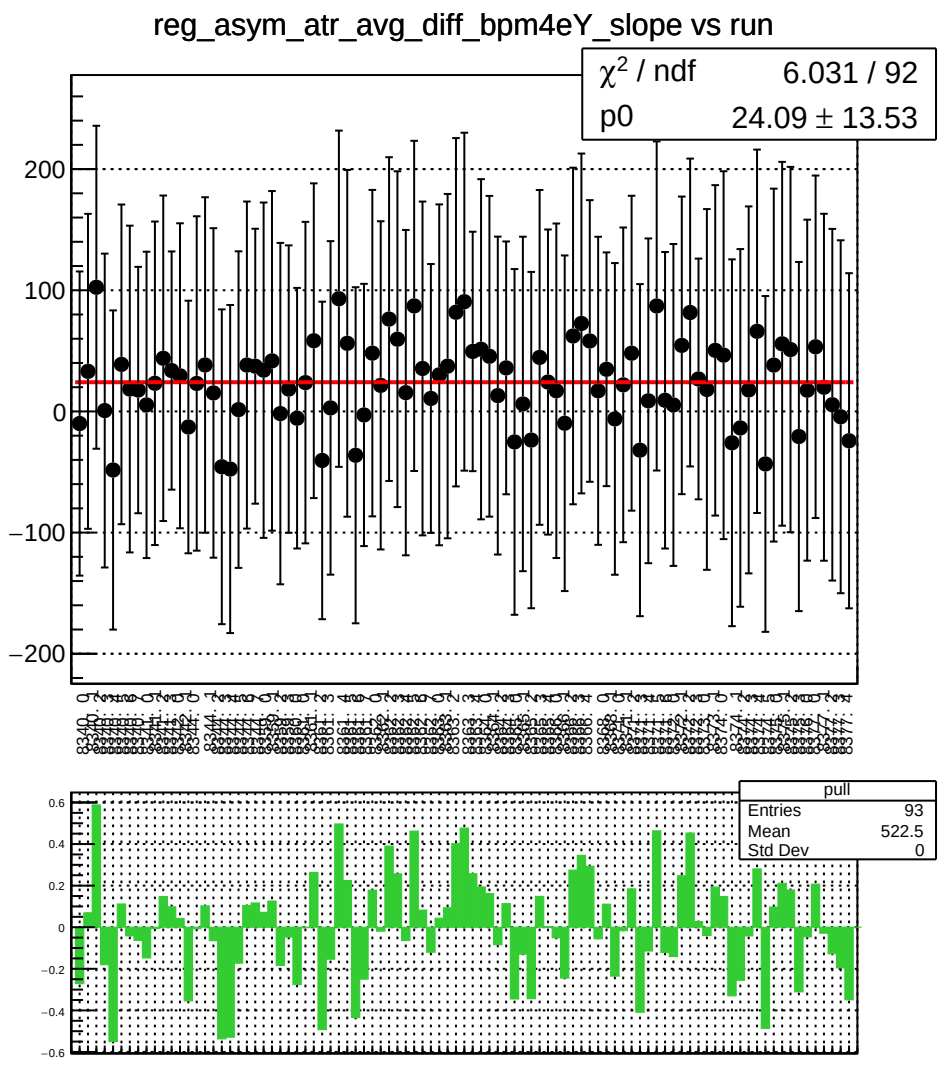

pull1D
Entries 93
Mean 0.004766
Std Dev 0.3973
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

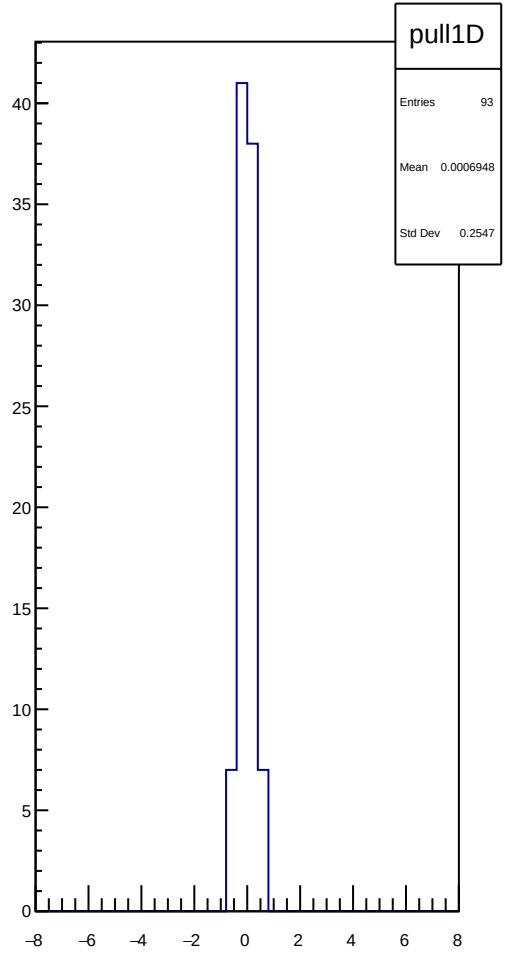

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 12.34 / 92
p0 −356.2 ± 6.594
−250
−300
−350
−400
−450
pull
Entries 93
Mean −5875
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.0009427
Std Dev 0.3642
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

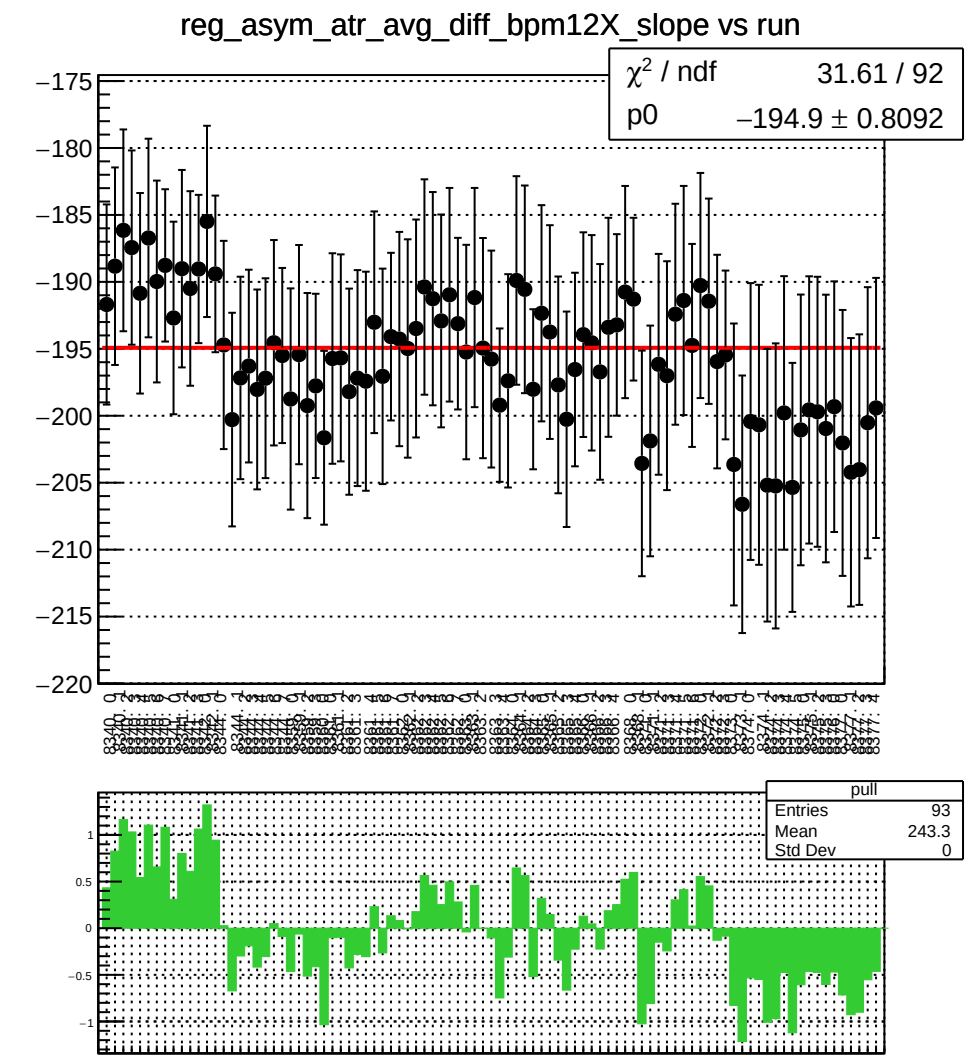

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.033 / 92
p0 52.2 ± 13.1
pull
Entries 93
Mean −1057
Std Dev 0

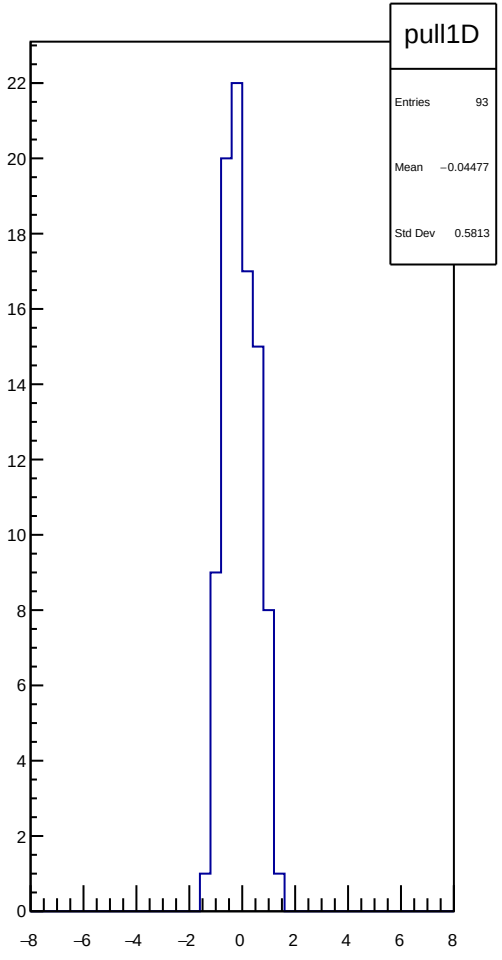

pull1D
Entries 93
Mean −0.0001352
Std Dev 0.2547

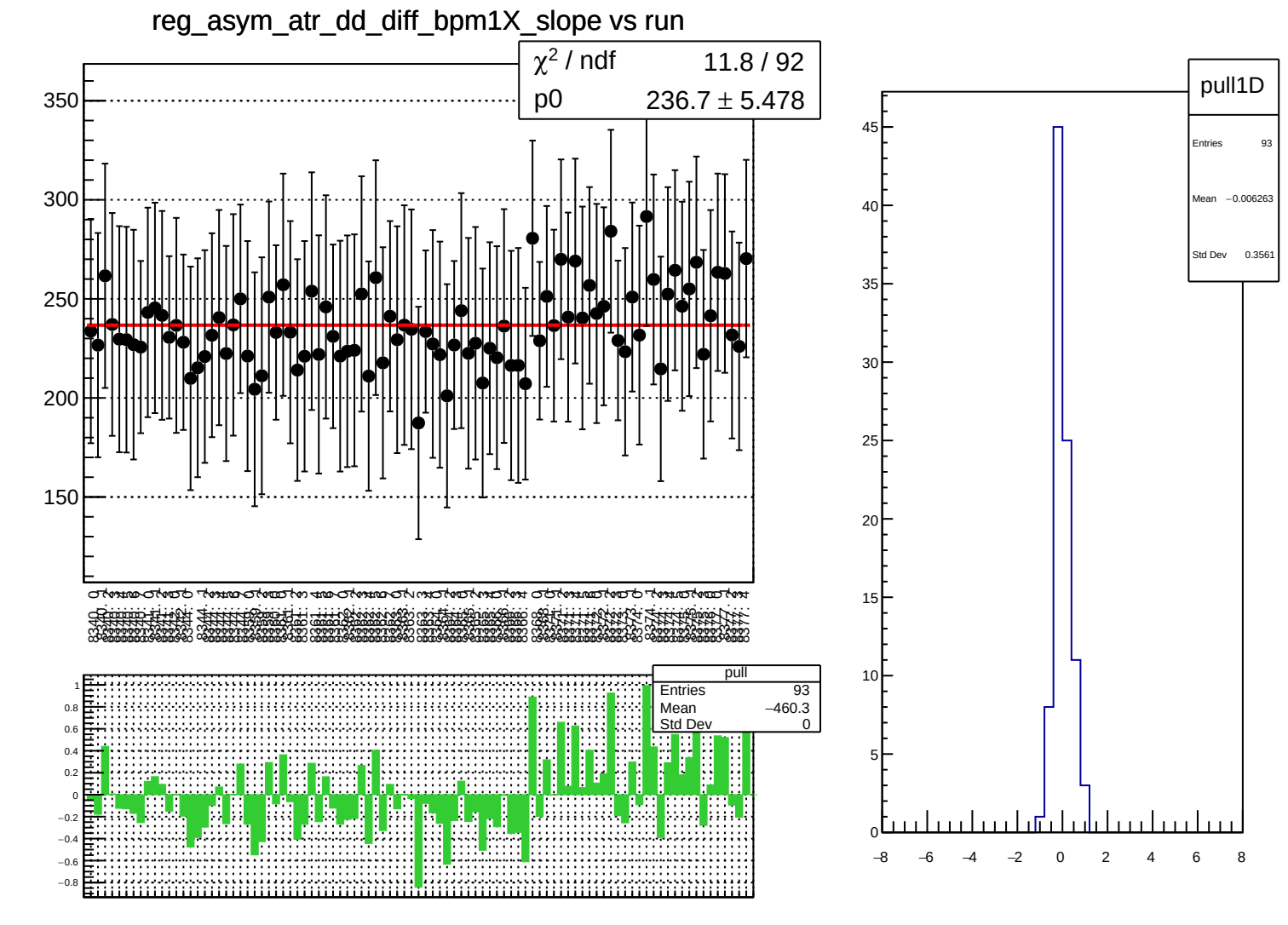

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 9.326 / 92
p0 340.1 ± 7.571
pull
Entries 93
Mean 1821
Std Dev 0
pull1D
Entries 93
Mean 0.002445
Std Dev 0.3167

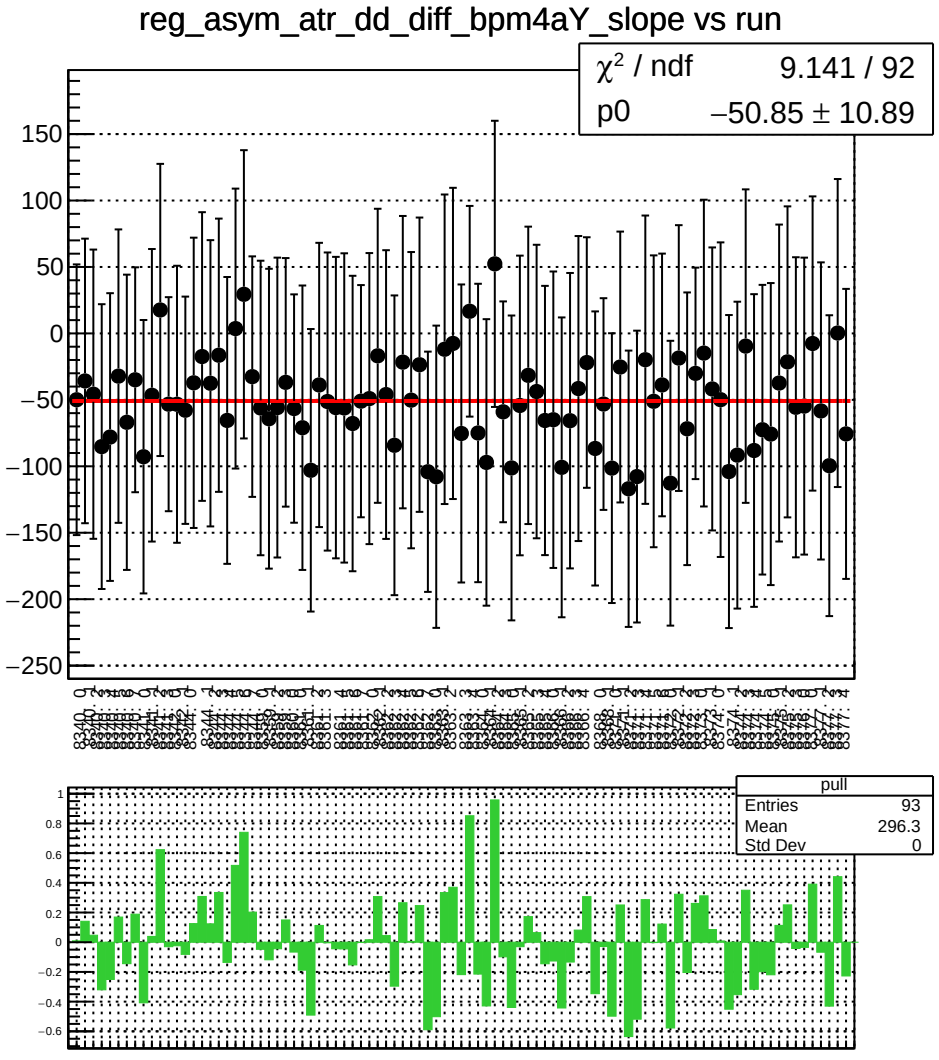

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.031 / 92
p0 24.09 ± 13.53
200
100
0
−100
−200
pull
Entries 93
Mean 522.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

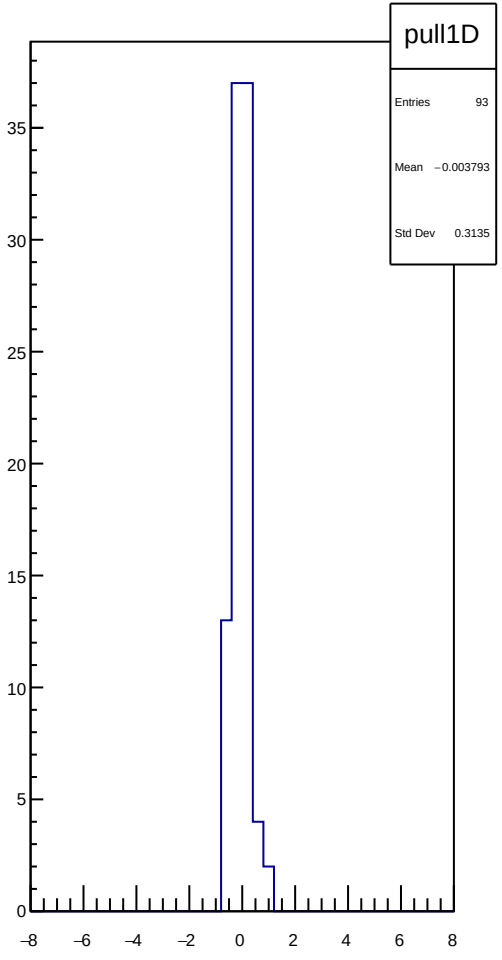

pull1D
Entries 93
Mean 0.0006948
Std Dev 0.2547
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

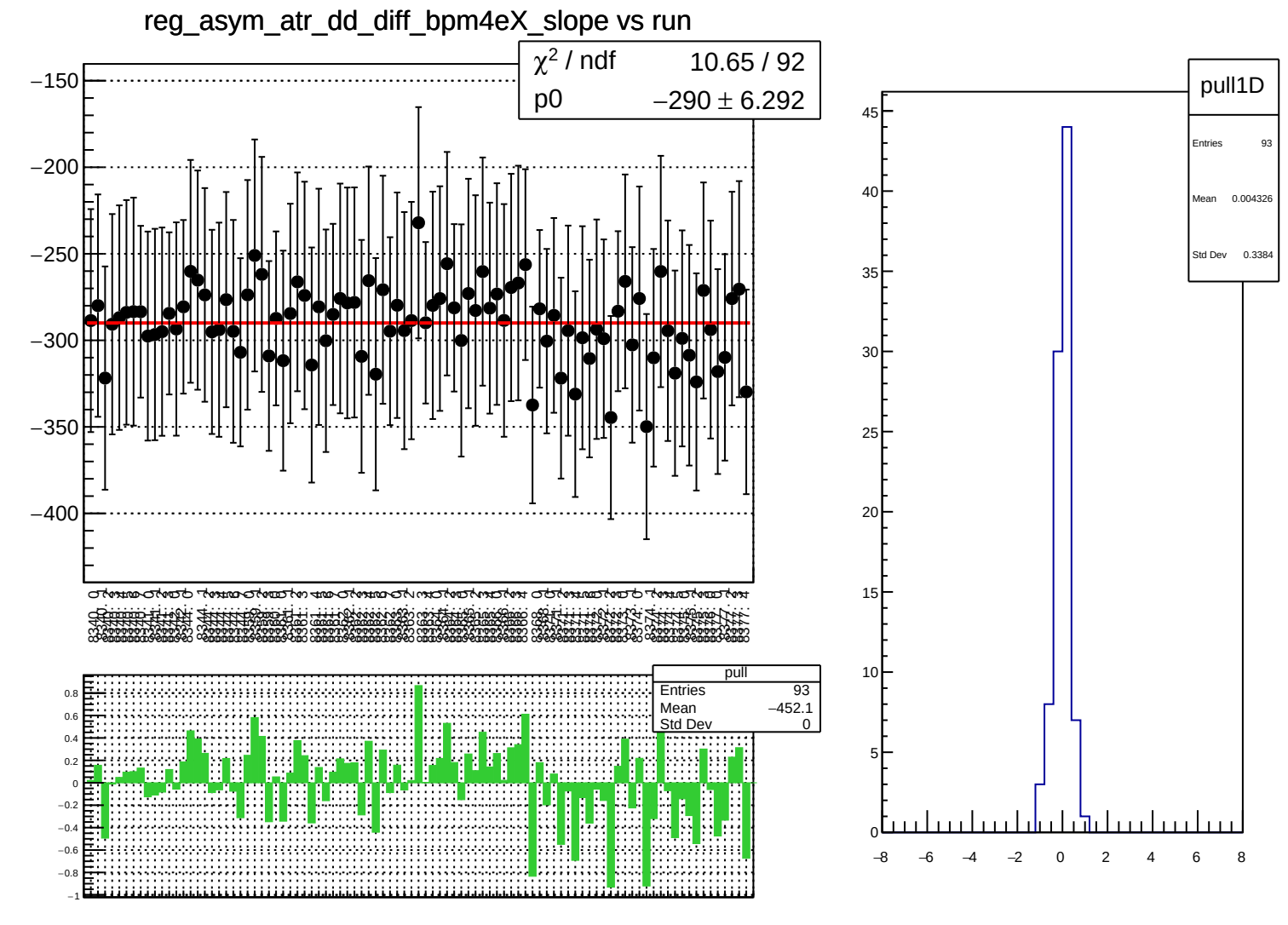

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 31.61 / 92
p0 −194.9 ± 0.8092
pull
Entries 93
Mean 243.3
Std Dev 0

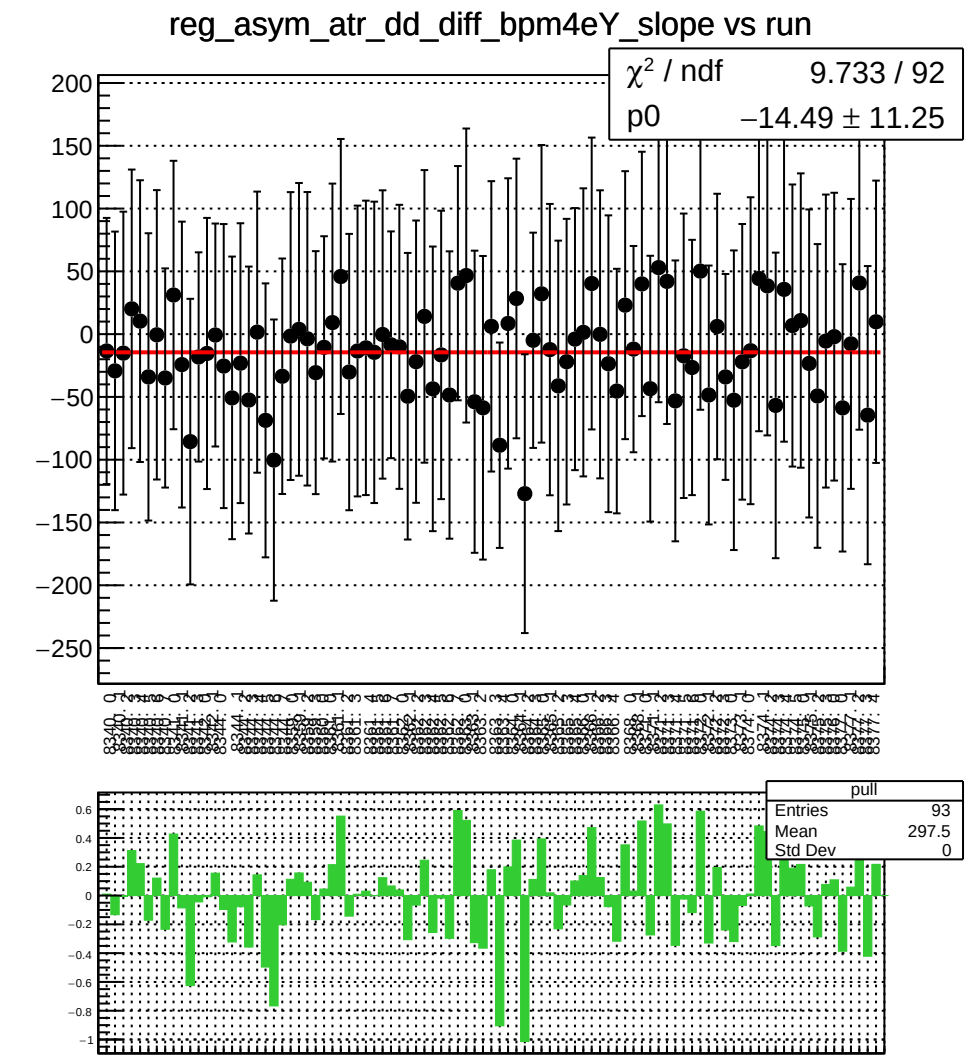

pull1D
Entries 93
Mean −0.04477
Std Dev 0.5813

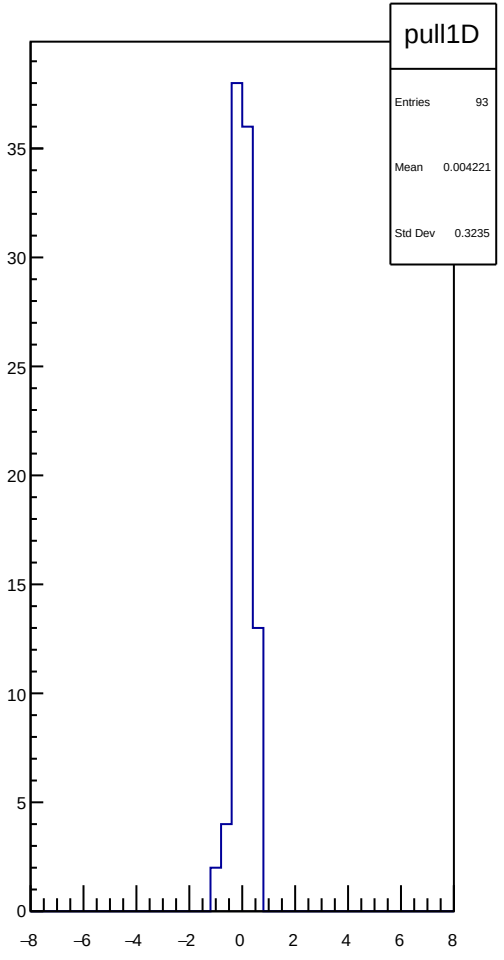

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 11.8 / 92
p0 236.7 ± 5.478
350
300
250
200
150
pull
Entries 93
Mean −460.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.006263
Std Dev 0.3561
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

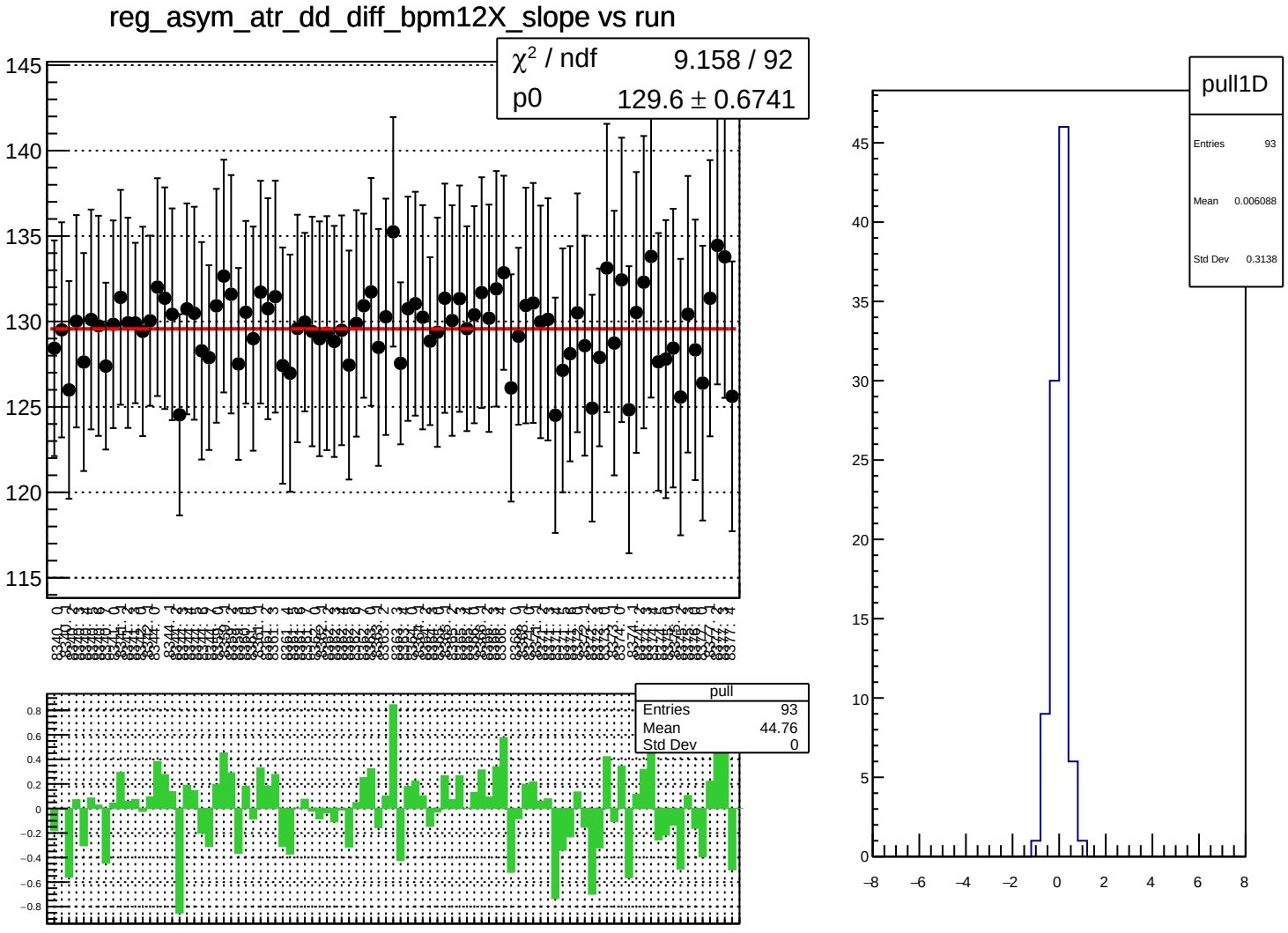

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.141 / 92
p0 −50.85 ± 10.89
pull
Entries 93
Mean 296.3
Std Dev 0

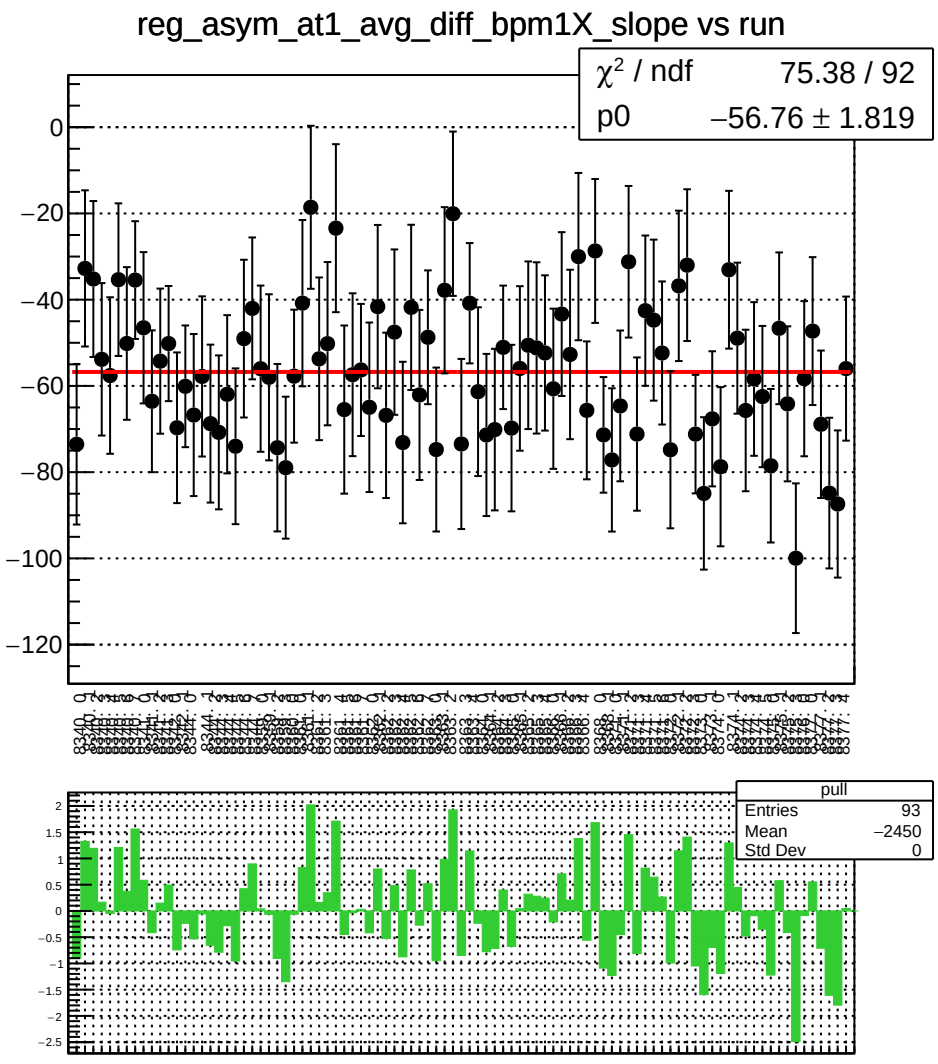

pull1D
Entries 93
Mean −0.003793
Std Dev 0.3135

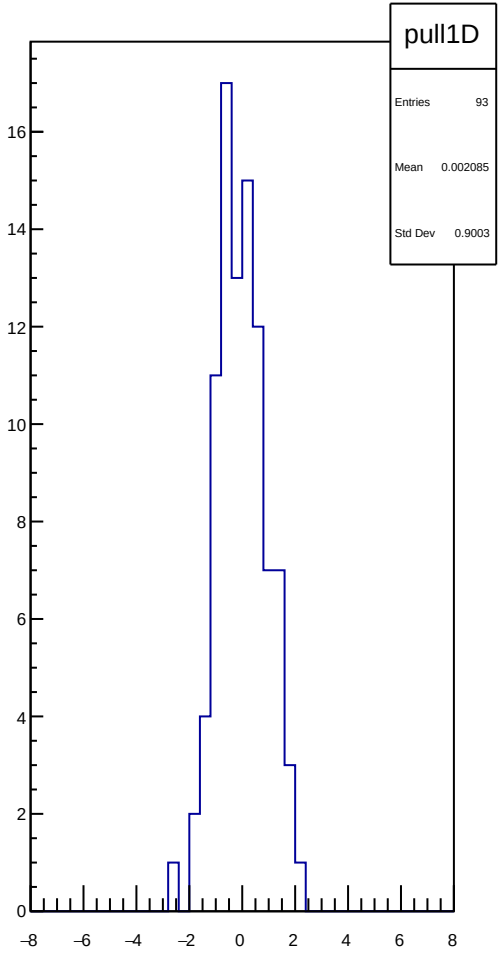

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.65 / 92
p0 −290 ± 6.292
−150
−200
−250
−300
−350
−400
pull
Entries 93
Mean −452.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean 0.004326
Std Dev 0.3384
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

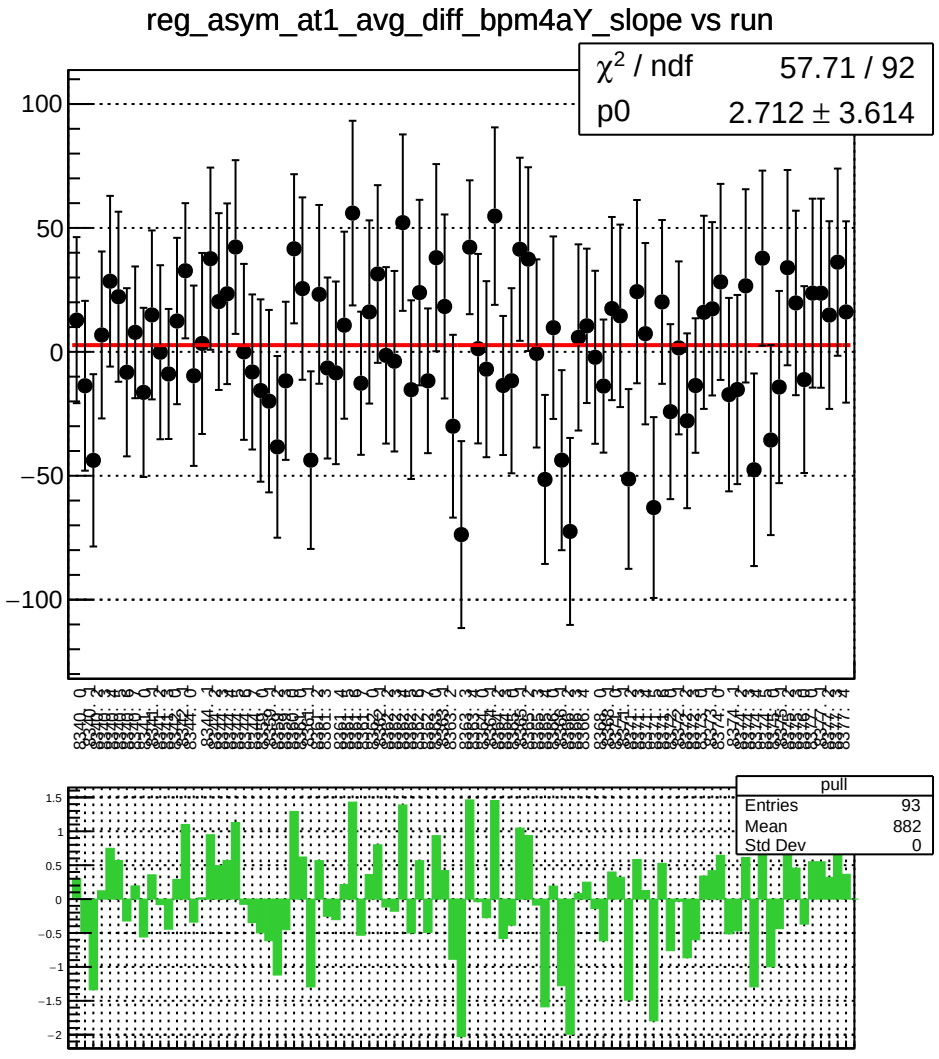

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.733 / 92
p0 −14.49 ± 11.25
pull
Entries 93
Mean 297.5
Std Dev 0

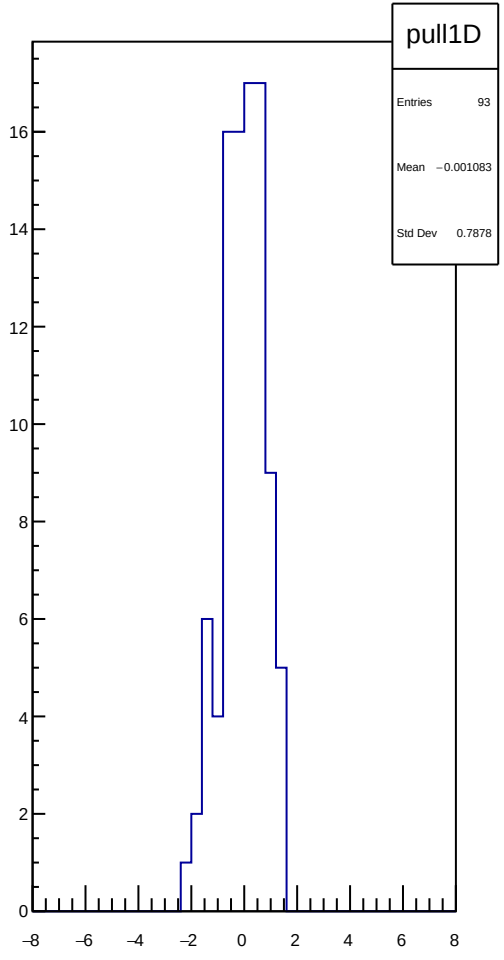

pull1D
Entries 93
Mean 0.004221
Std Dev 0.3235

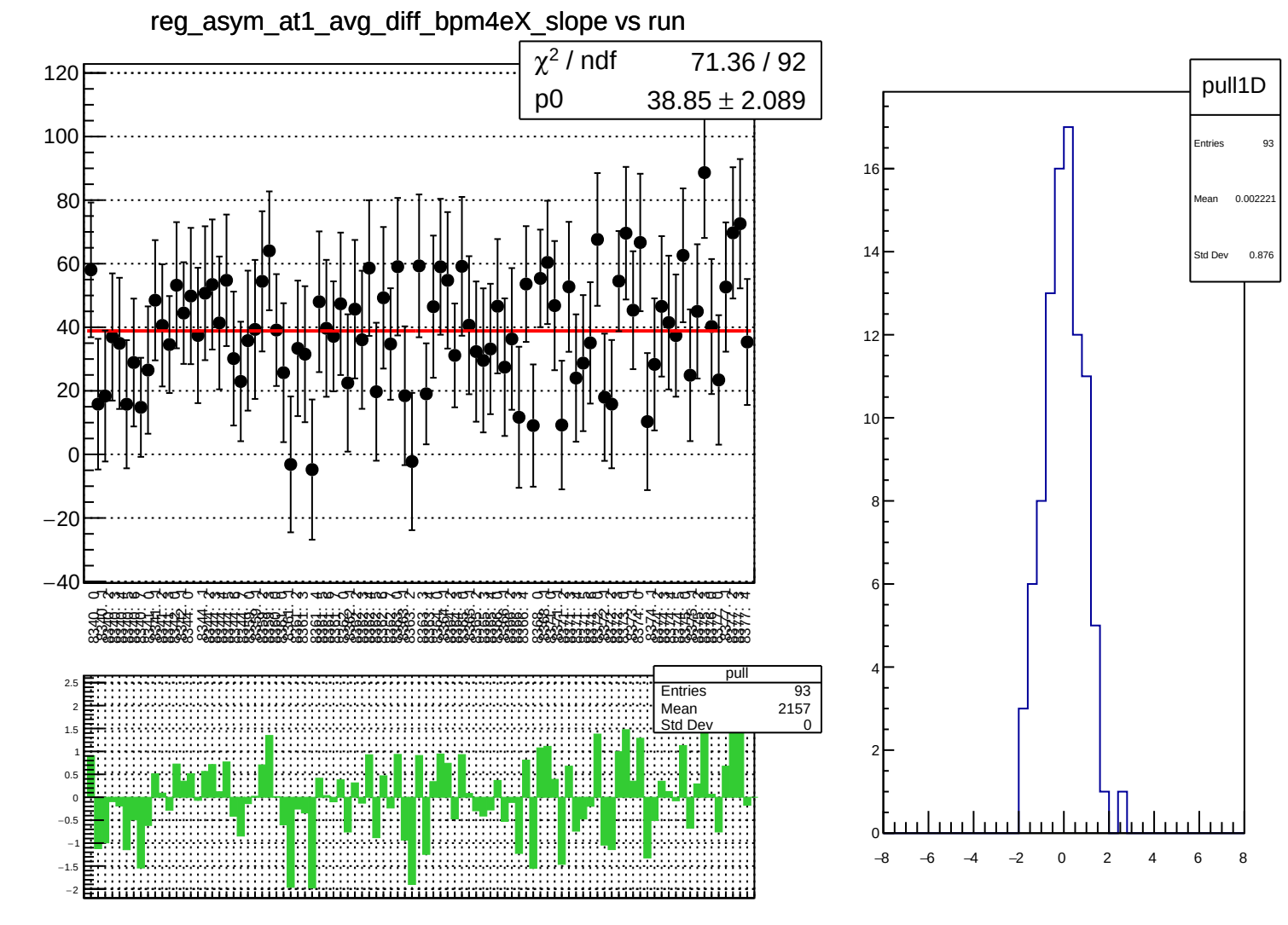

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 9.158 / 92
p0 129.6 ± 0.6741
145
140
135
130
125
120
115
pull
Entries 93
Mean 44.76
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.006088
Std Dev 0.3138
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

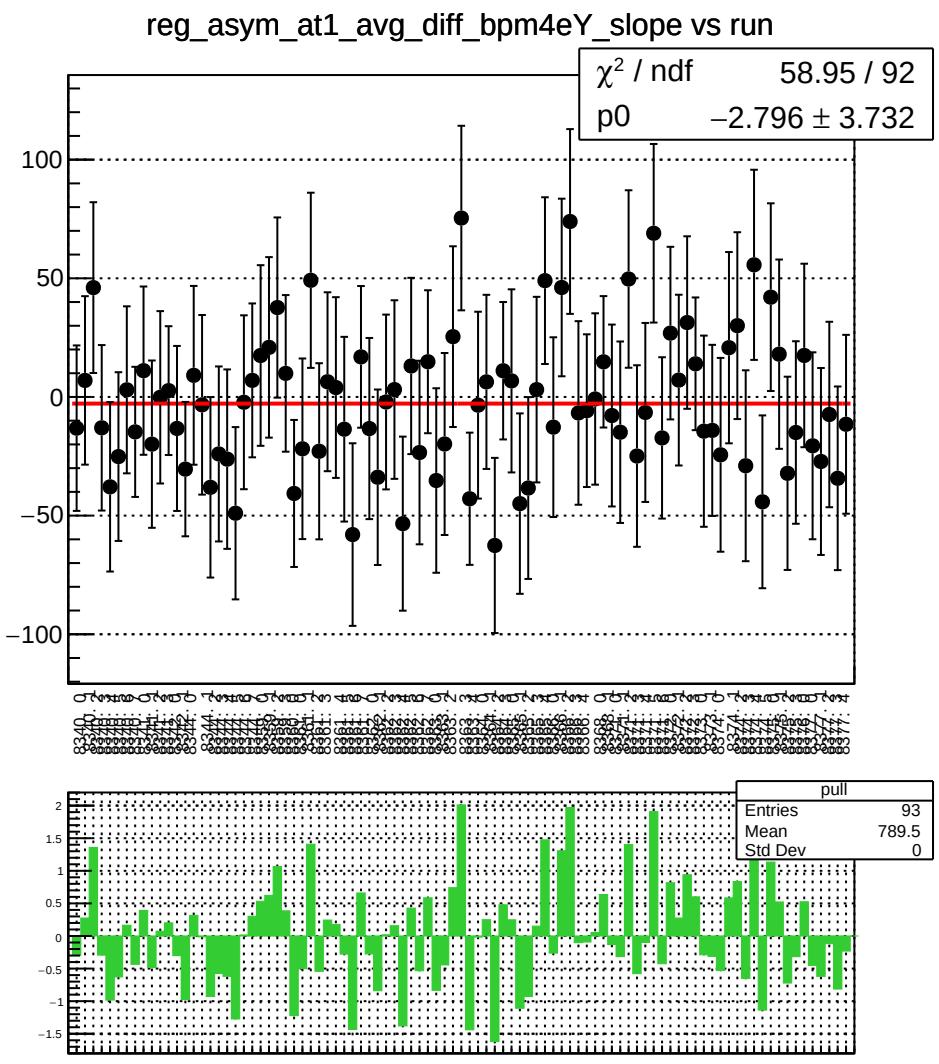

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 75.38 / 92
p0 −56.76 ± 1.819
pull
Entries 93
Mean −2450
Std Dev 0

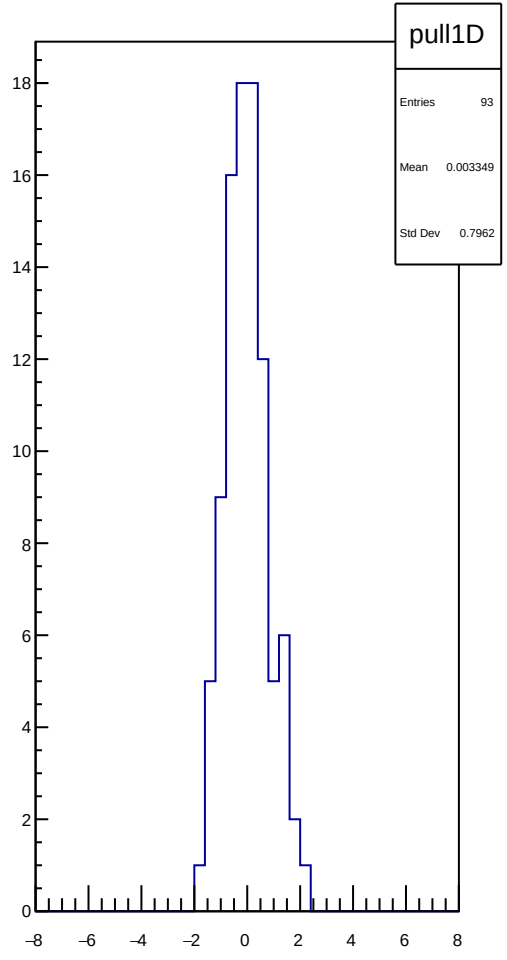

pull1D
Entries 93
Mean 0.002085
Std Dev 0.9003

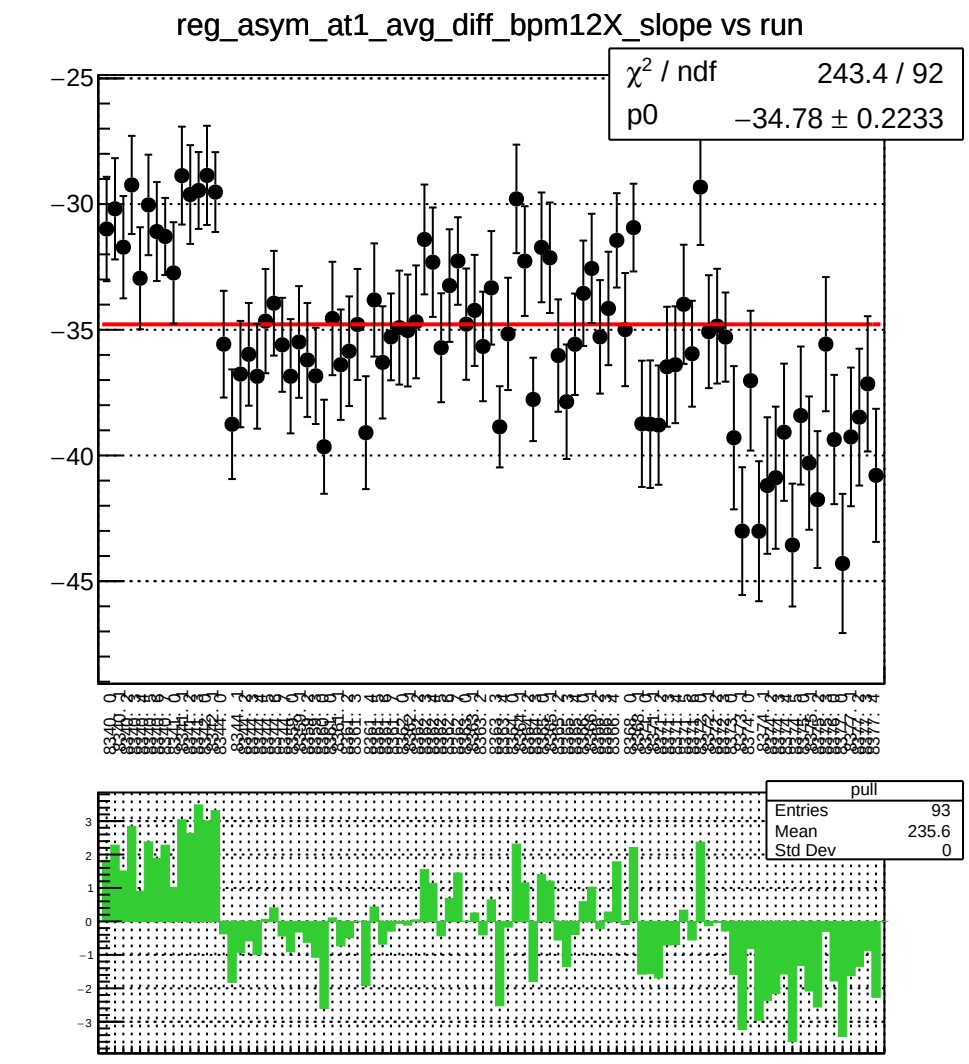

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.71 / 92
p0 2.712 ± 3.614
100
50
0
−50
−100
pull
Entries 93
Mean 882
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

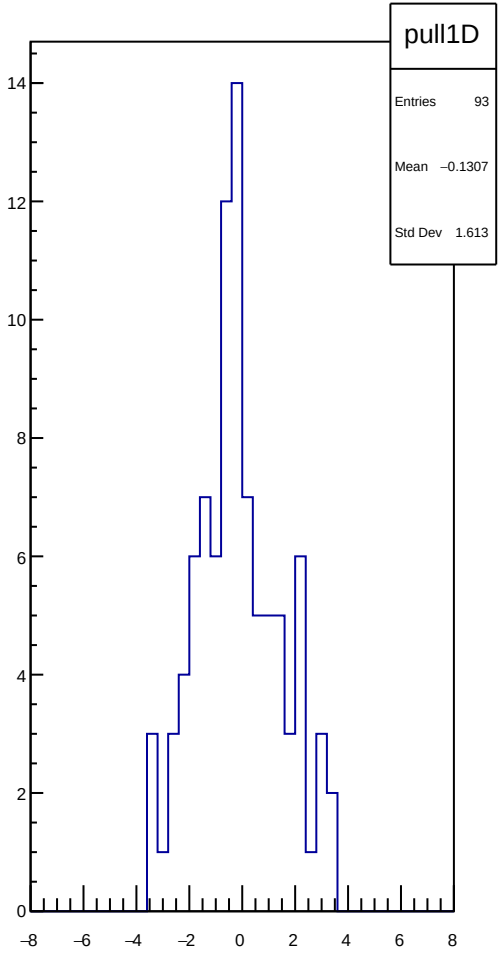

pull1D
Entries 93
Mean −0.001083
Std Dev 0.7878
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

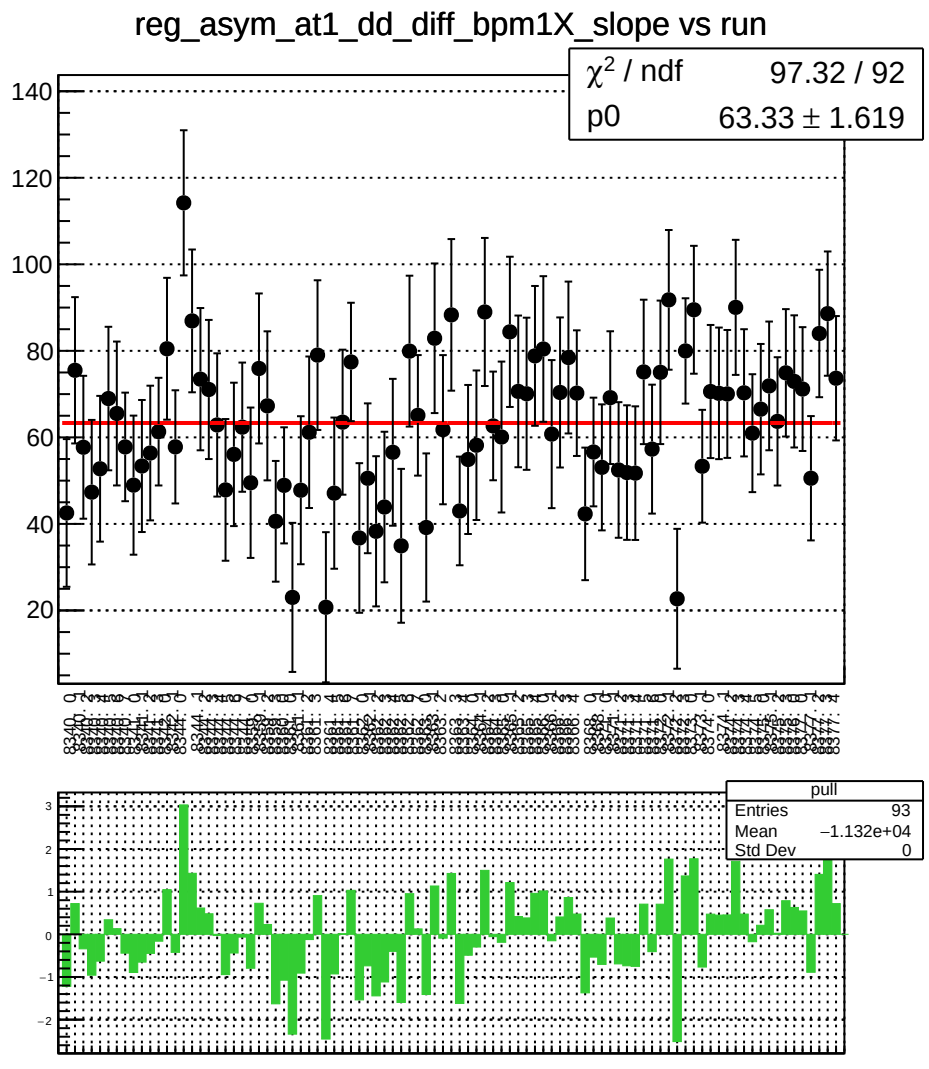

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.36 / 92
p0 38.85 ± 2.089
pull
Entries 93
Mean 2157
Std Dev 0
pull1D
Entries 93
Mean 0.002221
Std Dev 0.876

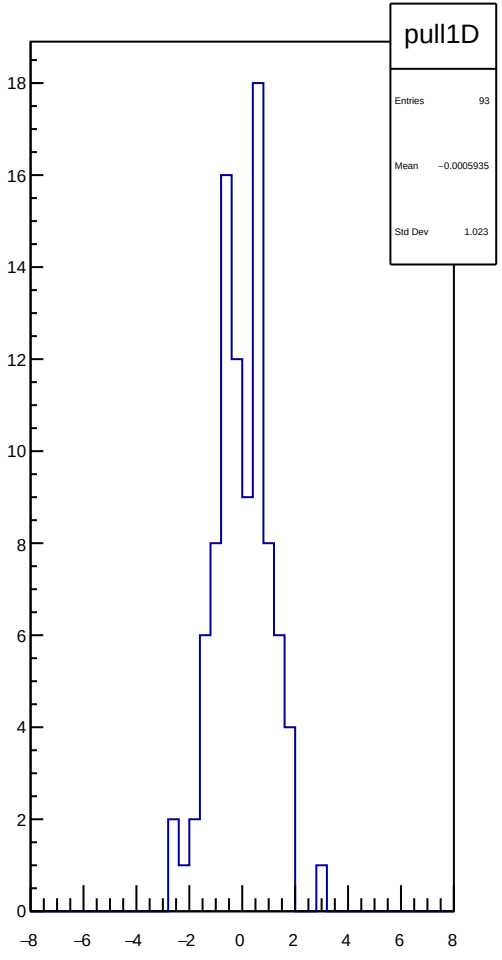

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.95 / 92
p0 −2.796 ± 3.732
100
50
0
−50
−100
pull
Entries 93
Mean 789.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

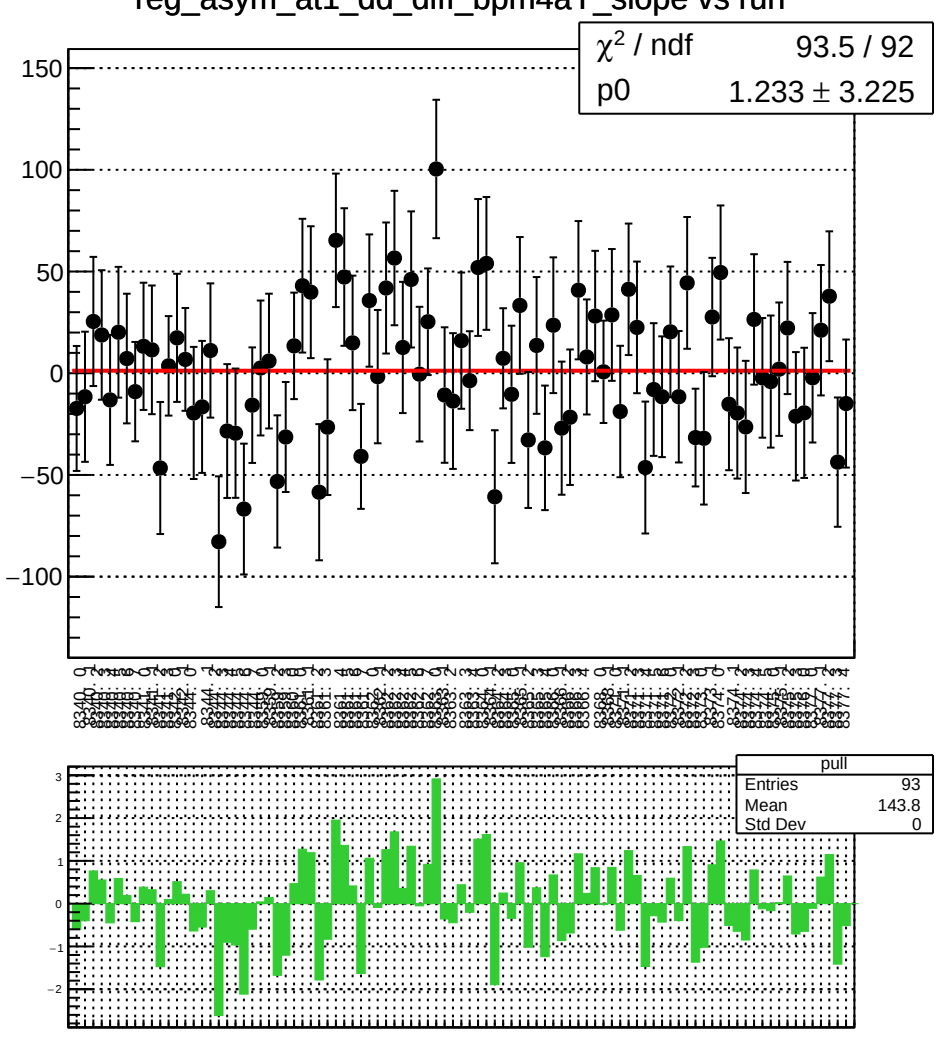

pull1D
Entries 93
Mean 0.003349
Std Dev 0.7962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

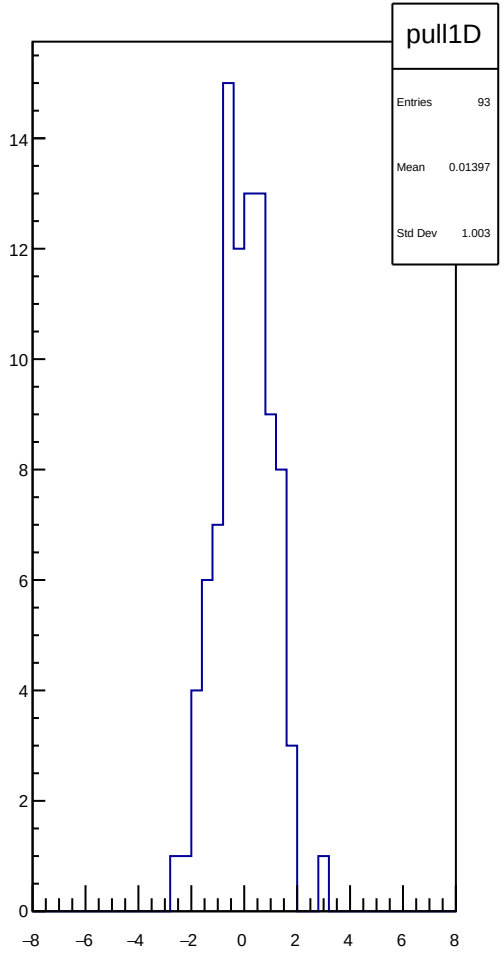

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 243.4 / 92
p0 −34.78 ± 0.2233
−25
−30
−35
−40
−45
pull
Entries 93
Mean 235.6
Std Dev 0
3
2
1
0
−1
−2
−3

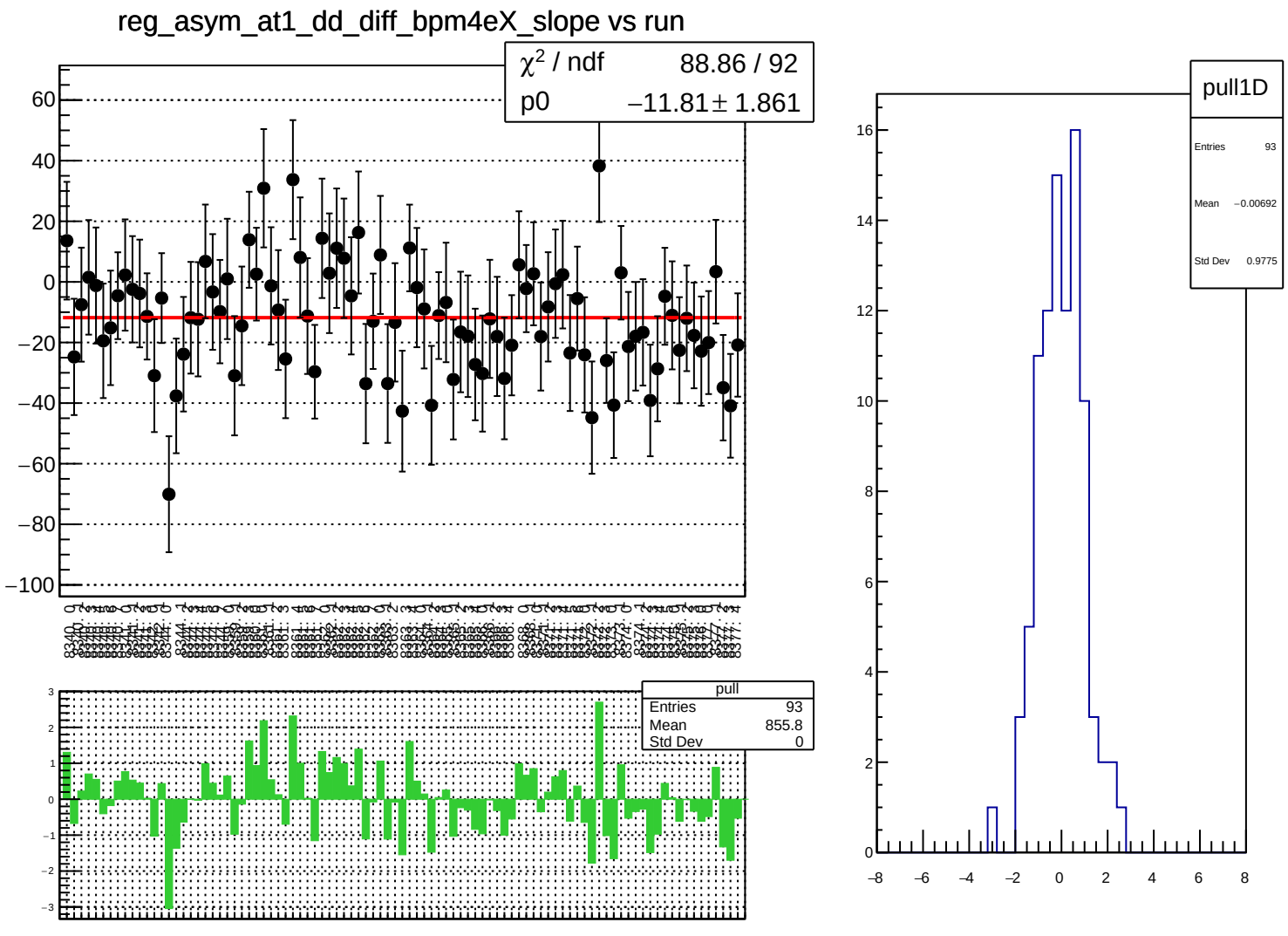

pull1D
Entries 93
Mean −0.1307
Std Dev 1.613
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

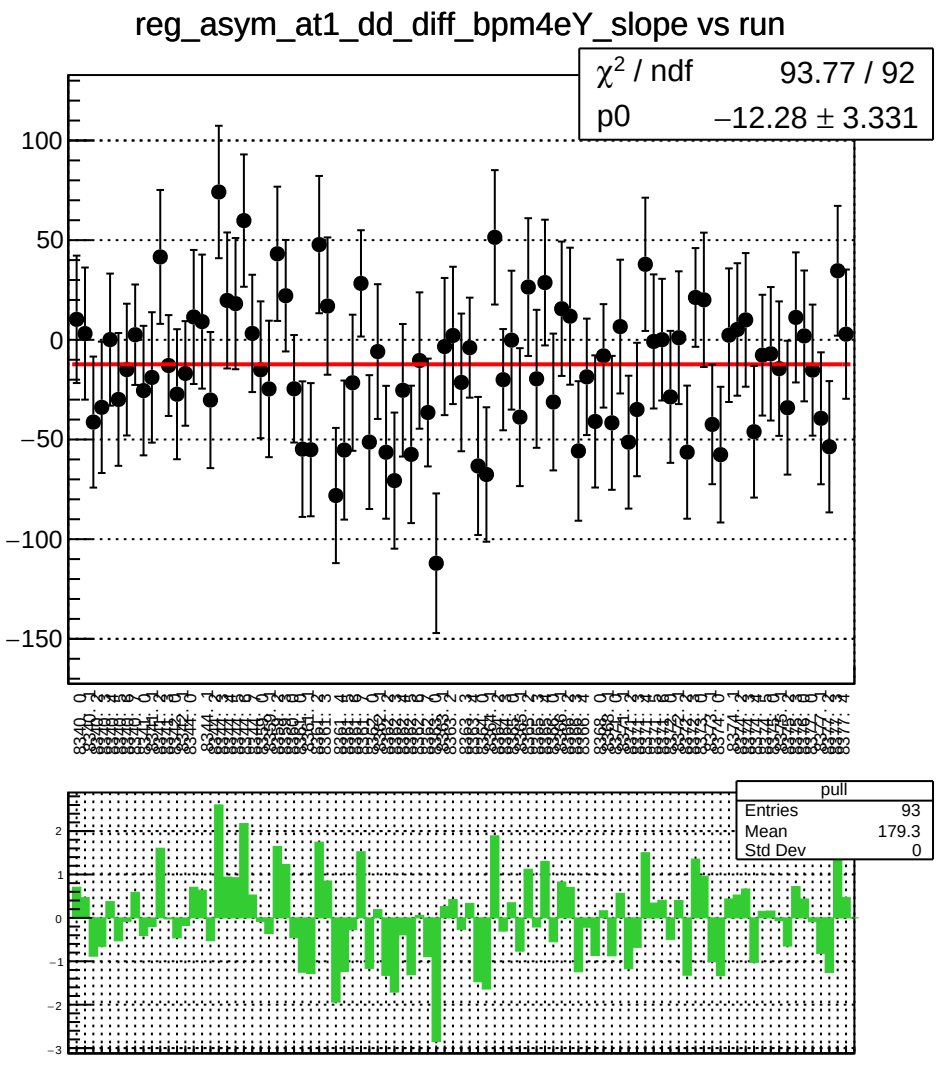

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 97.32 / 92
p0 63.33 ± 1.619
pull
Entries 93
Mean −1.132e+04
Std Dev 0

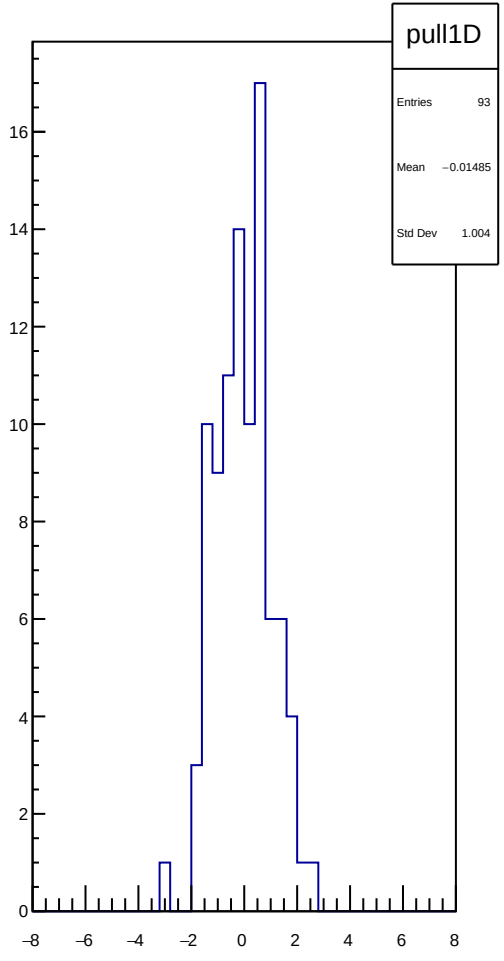

pull1D
Entries 93
Mean −0.0005935
Std Dev 1.023

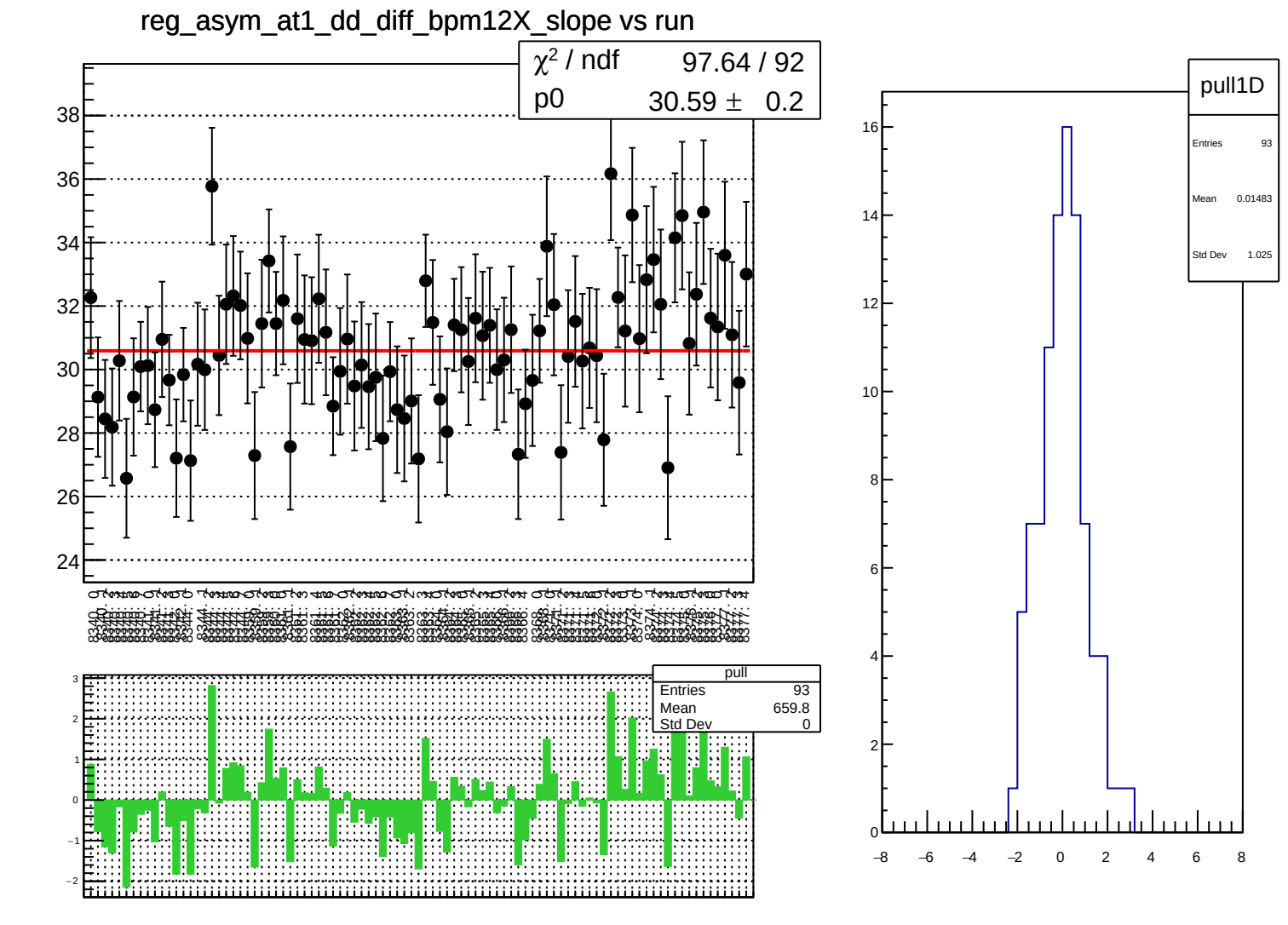

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.5 / 92
p0 1.233 ± 3.225
150
100
50
0
−50
−100
pull
Entries 93
Mean 143.8
Std Dev 0
3
2
1
0
−1
−2

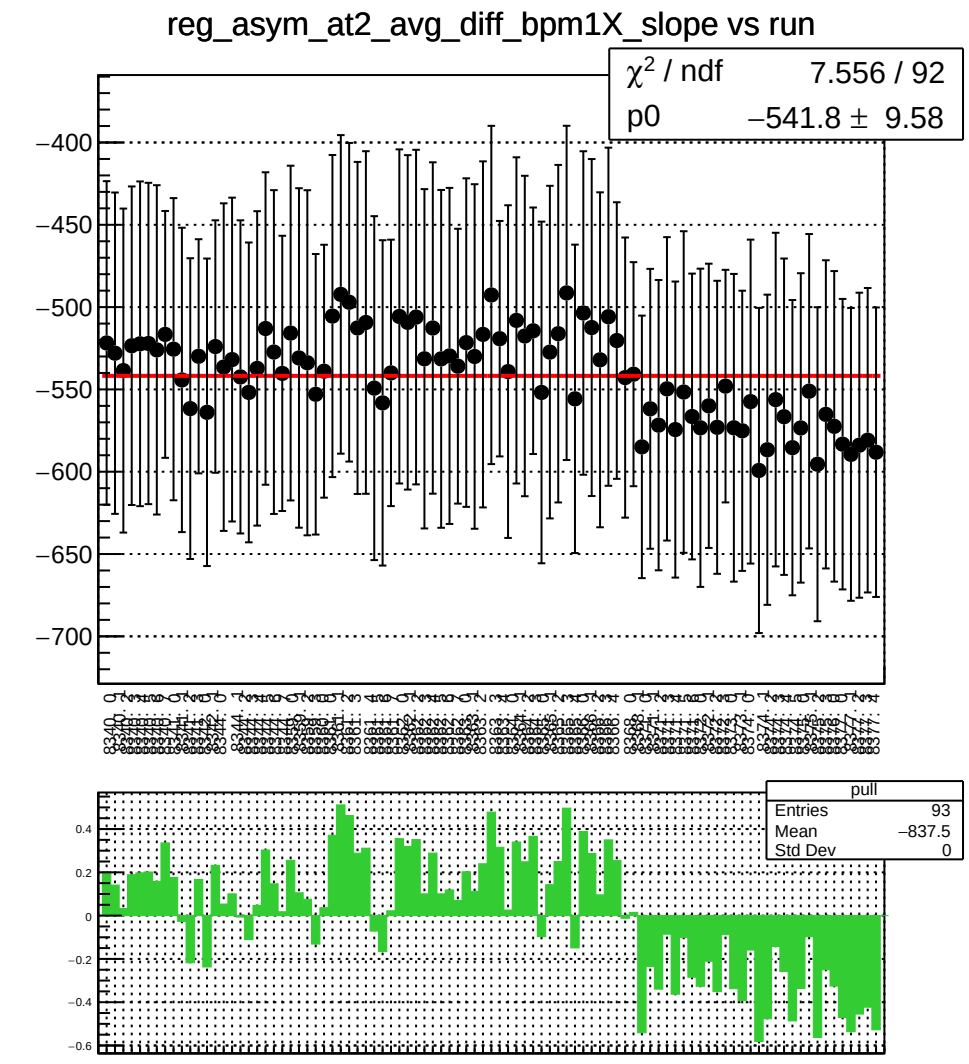

pull1D
Entries 93
Mean 0.01397
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

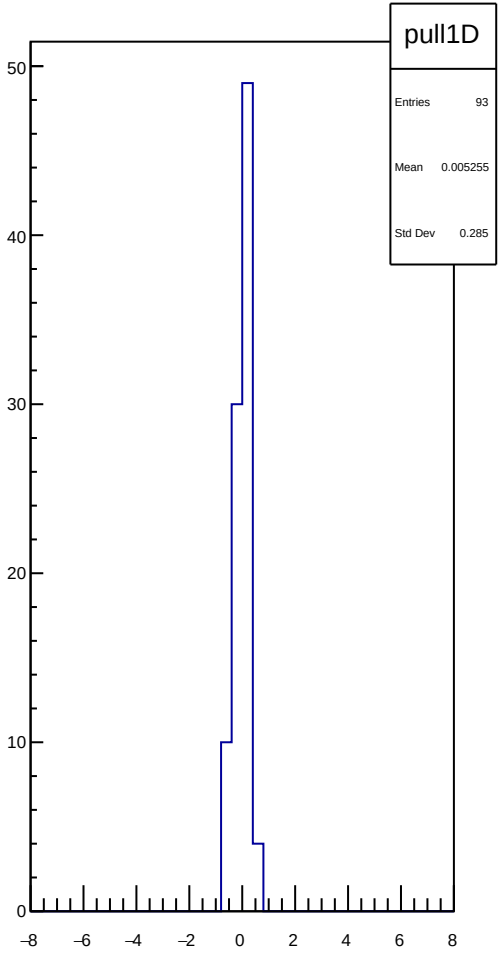

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.86 / 92
p0 −11.81 ± 1.861
pull
Entries 93
Mean 855.8
Std Dev 0
pull1D
Entries 93
Mean −0.00692
Std Dev 0.9775

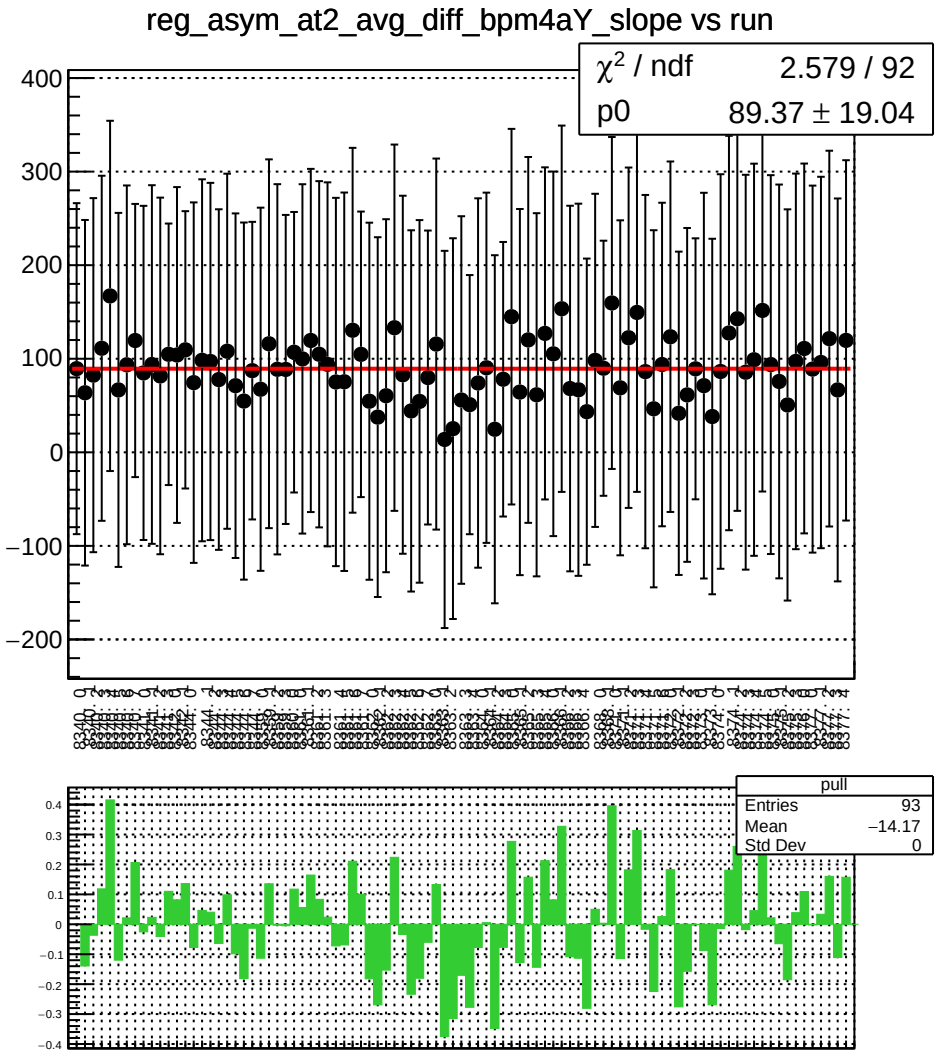

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.77 / 92
p0 −12.28 ± 3.331
100
50
0
−50
−100
−150
pull
Entries 93
Mean 179.3
Std Dev 0
2
1
0
−1
−2
−3

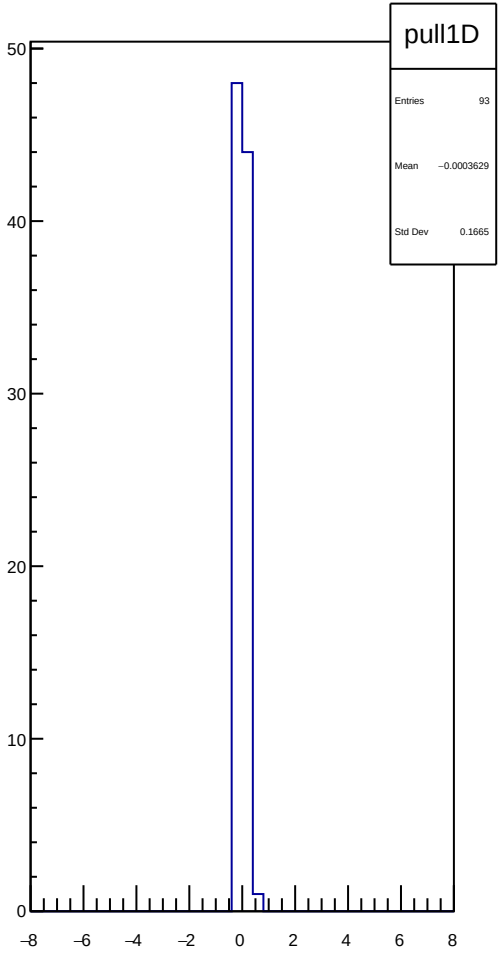

pull1D
Entries 93
Mean −0.01485
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

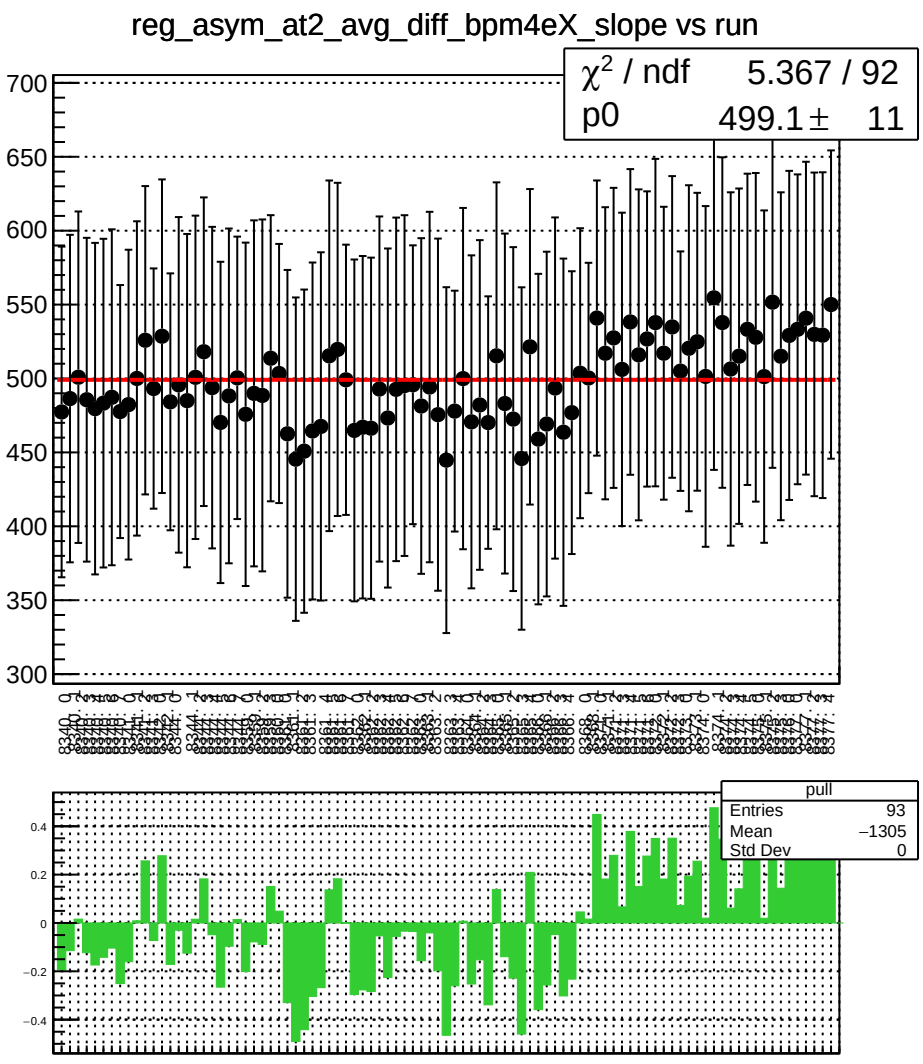

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 97.64 / 92
p0 30.59 ± 0.2
pull
Entries 93
Mean 659.8
Std Dev 0
pull1D
Entries 93
Mean 0.01483
Std Dev 1.025

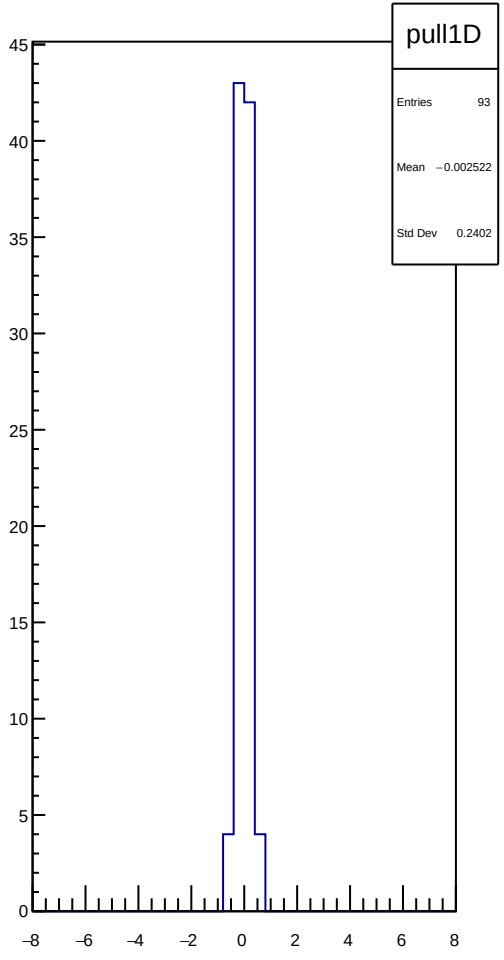

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.556 / 92
p0 −541.8 ± 9.58
−400
−450
−500
−550
−600
−650
−700
pull
Entries 93
Mean −837.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

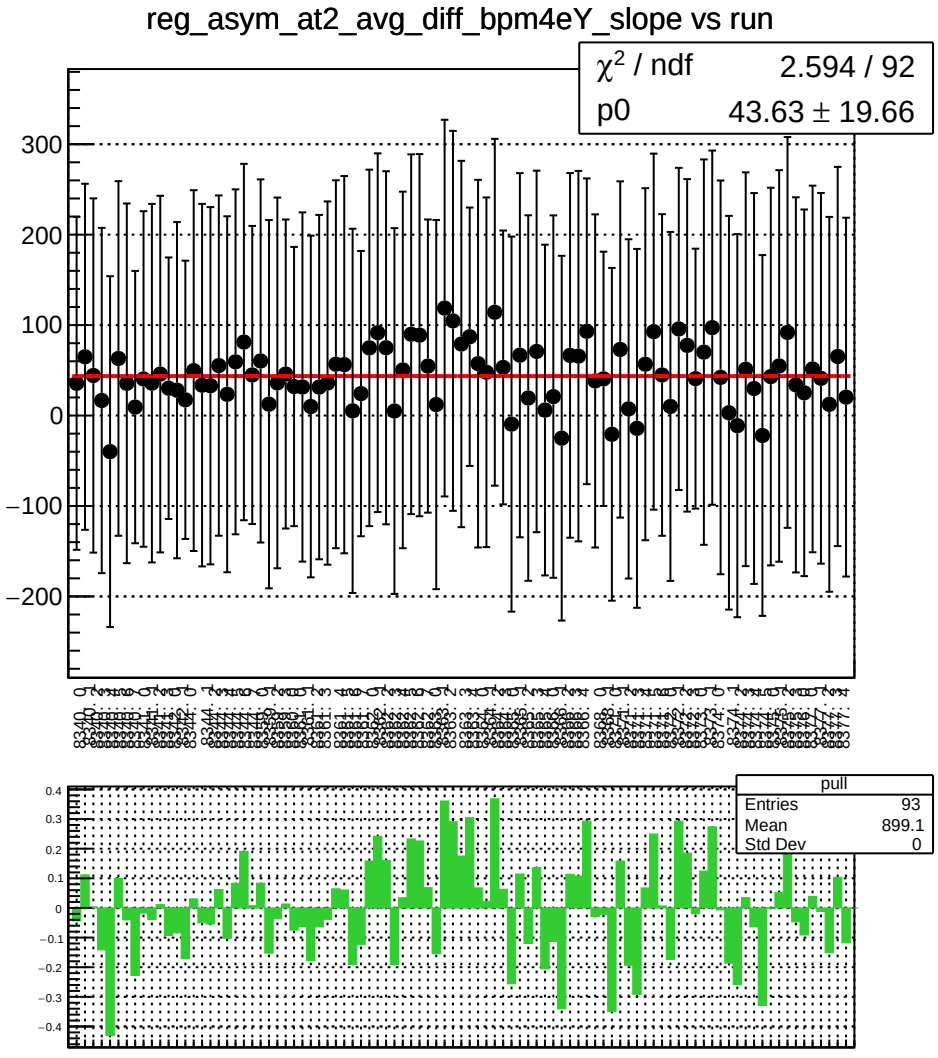

pull1D
Entries 93
Mean 0.005255
Std Dev 0.285
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

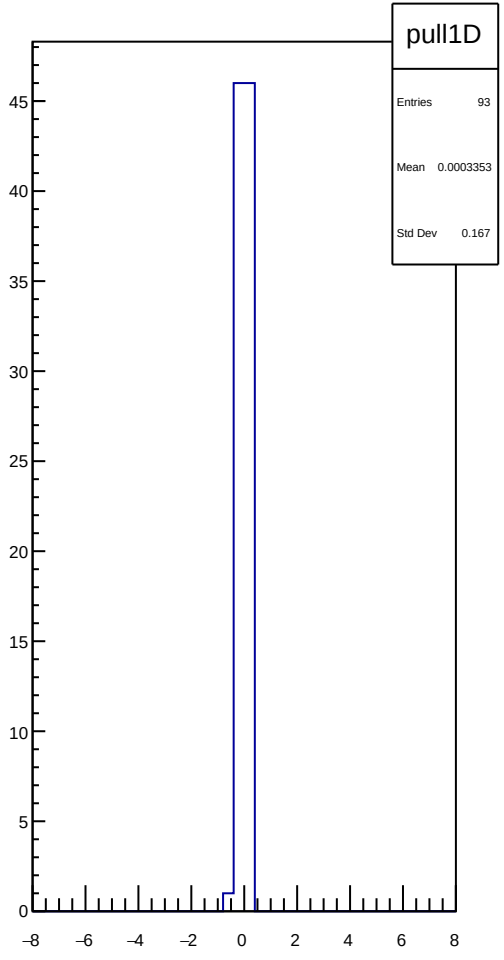

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.579 / 92
p0 89.37 ± 19.04
pull
Entries 93
Mean −14.17
Std Dev 0

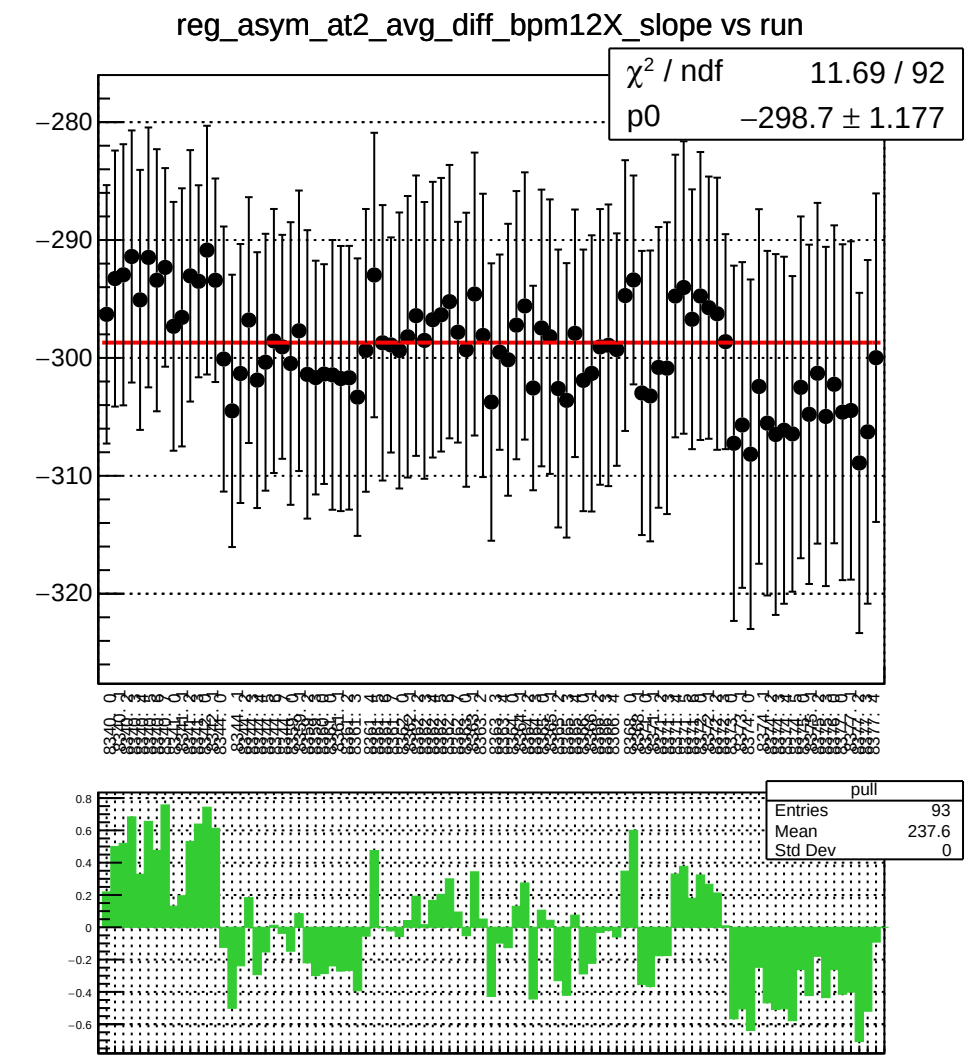

pull1D
Entries 93
Mean −0.0003629
Std Dev 0.1665

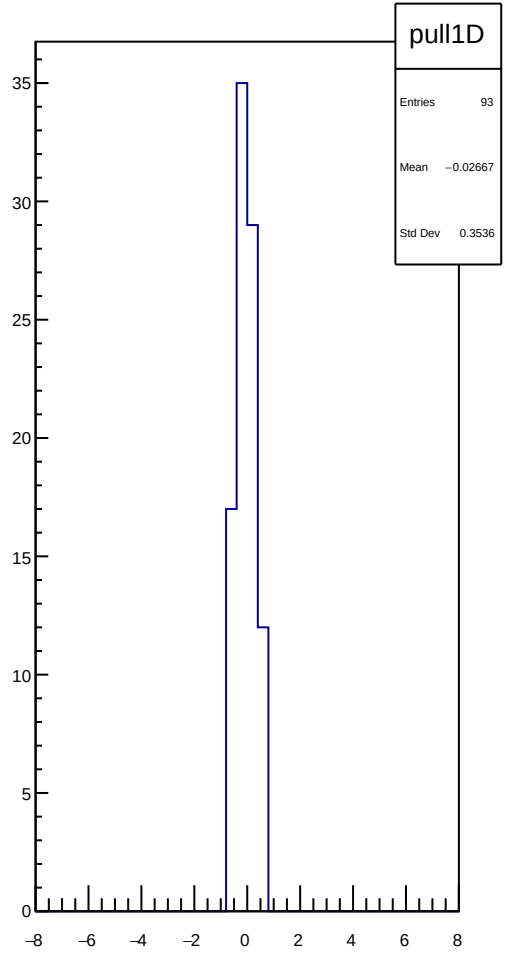

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.367 / 92
p0 499.1 ± 11
700
650
600
550
500
450
400
350
300
pull
Entries 93
Mean −1305
Std Dev 0
0.4
0.2
0
−0.2
−0.4

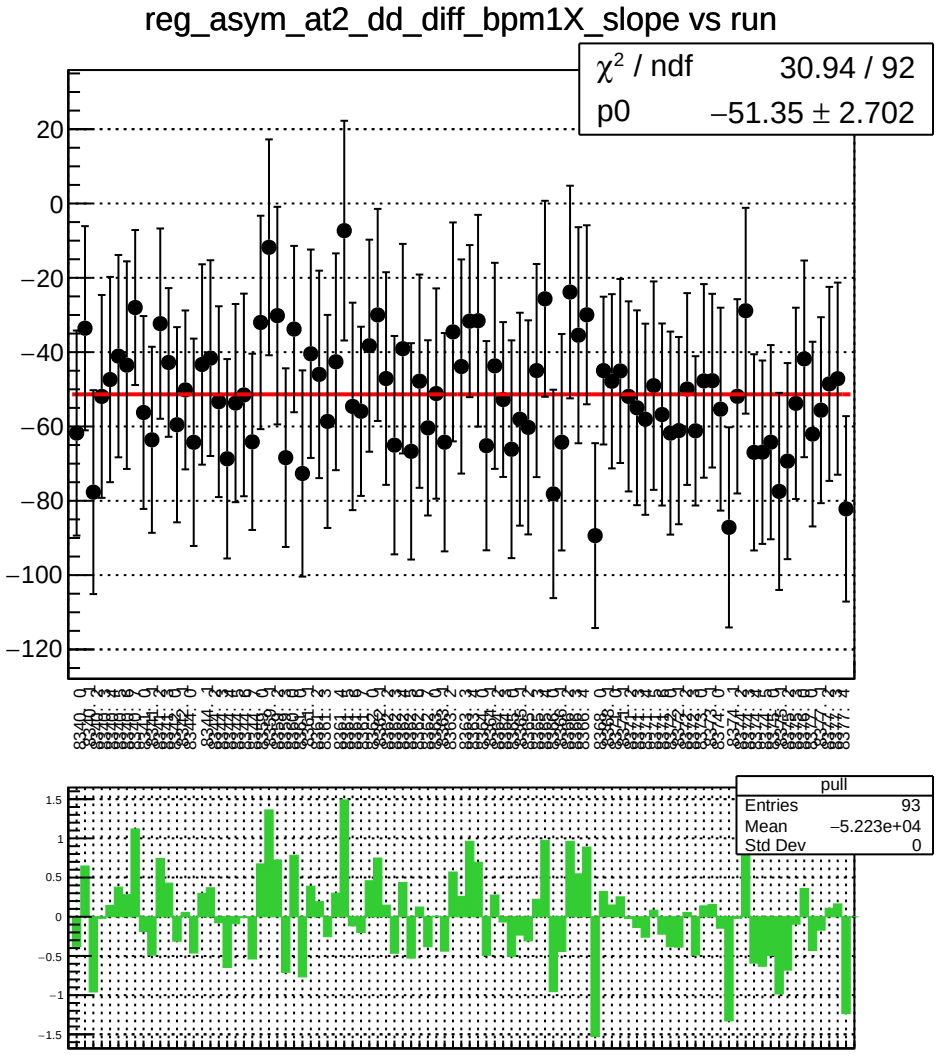

pull1D
Entries 93
Mean −0.002522
Std Dev 0.2402
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

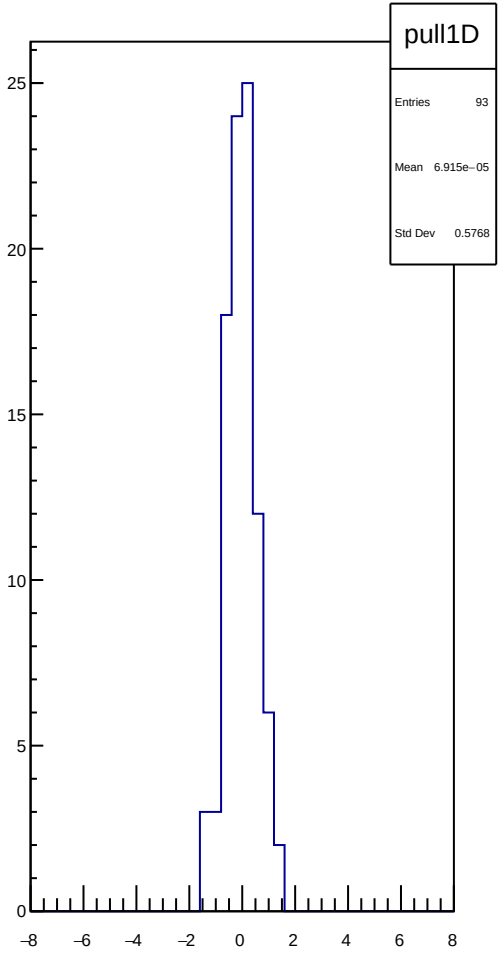

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.594 / 92
p0 43.63 ± 19.66
300
200
100
0
−100
−200
pull
Entries 93
Mean 899.1
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

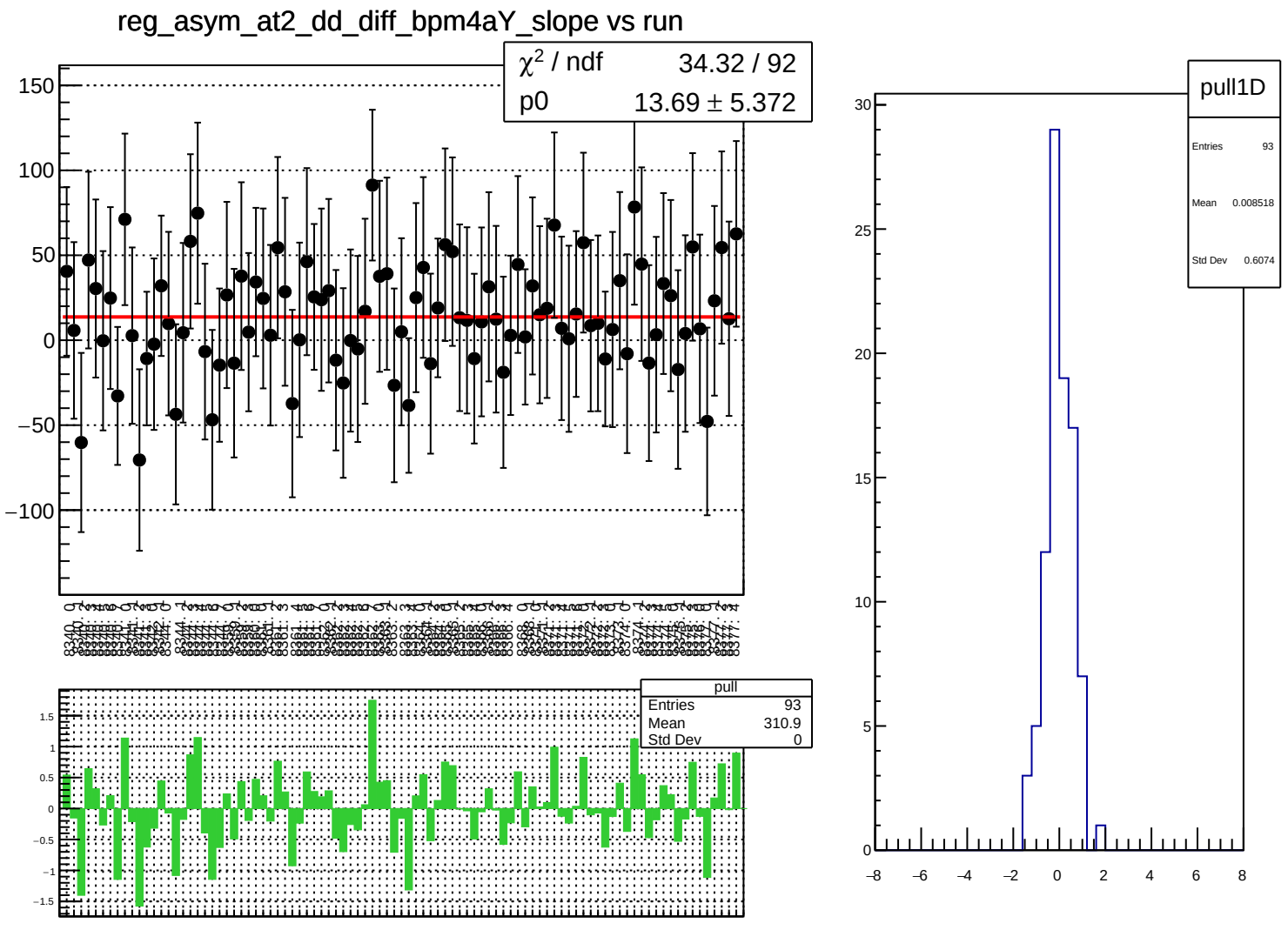

pull1D
Entries 93
Mean 0.0003353
Std Dev 0.167
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

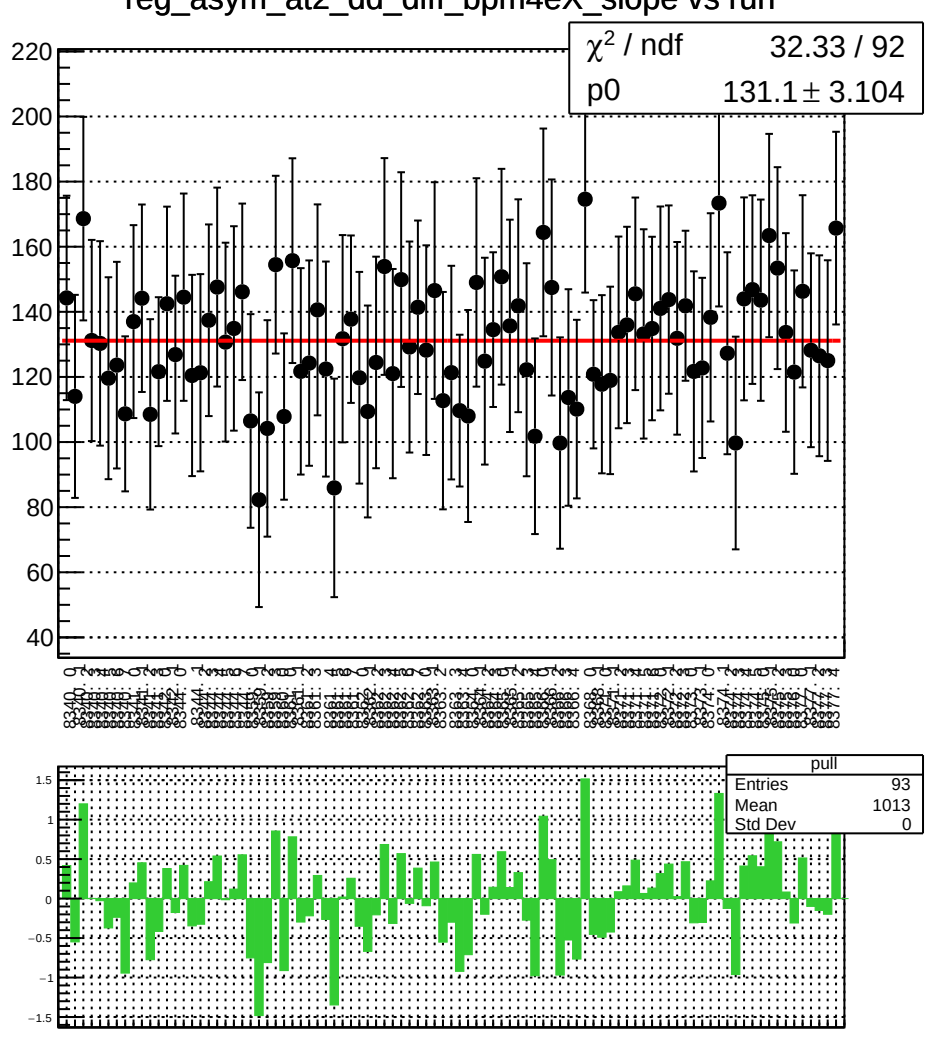

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.69 / 92
p0 −298.7 ± 1.177
−280
−290
−300
−310
−320
pull
Entries 93
Mean 237.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

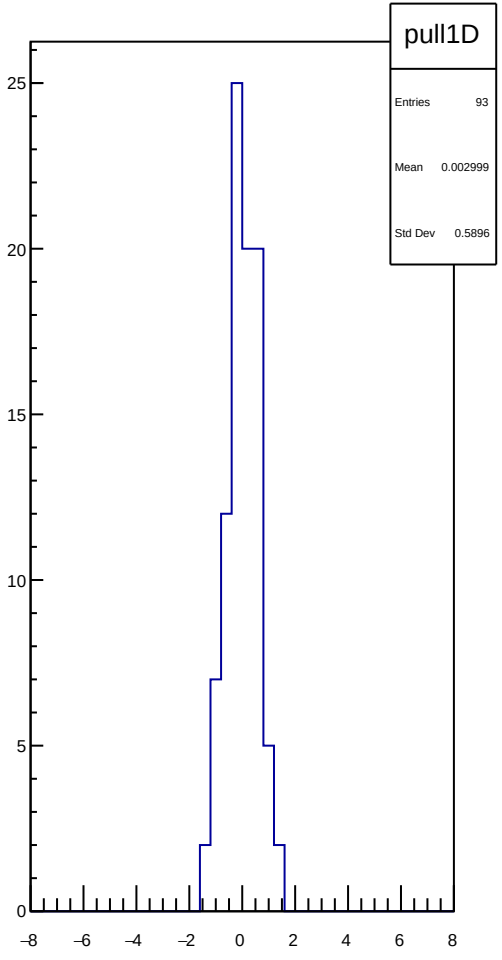

pull1D
Entries 93
Mean −0.02667
Std Dev 0.3536
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

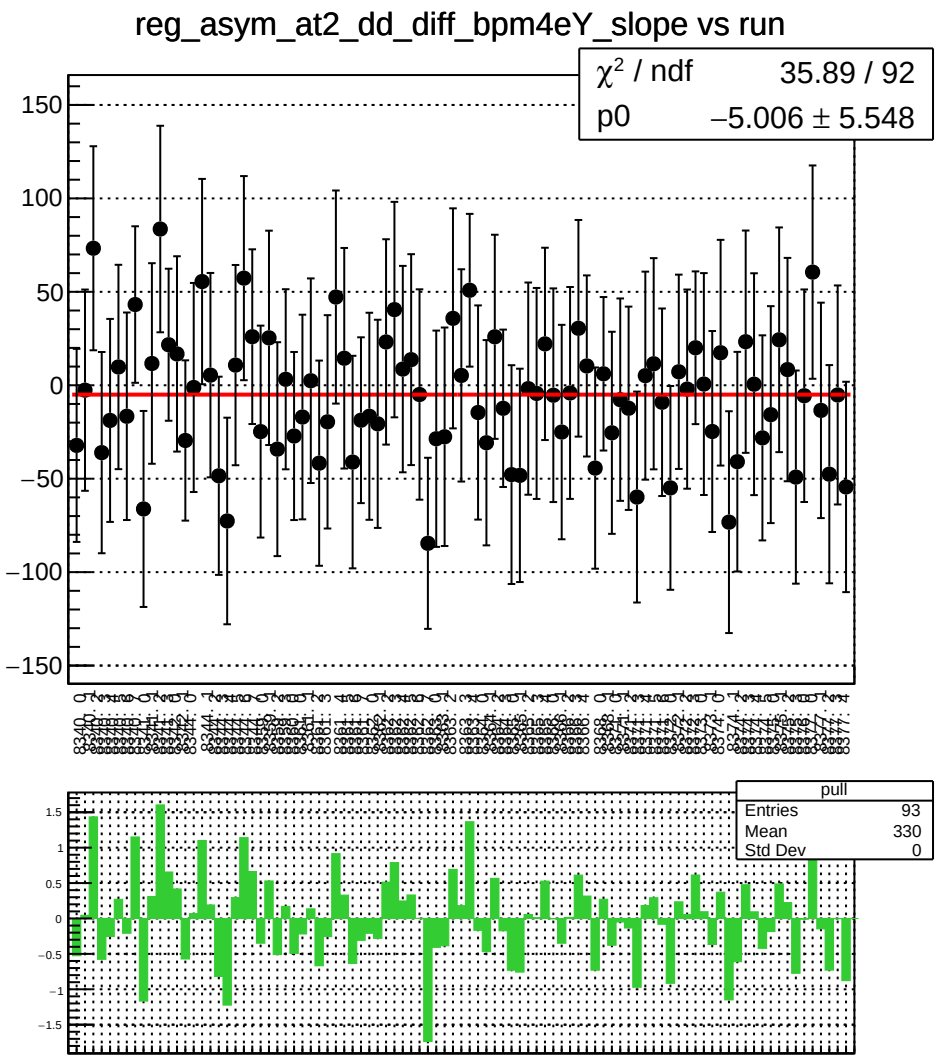

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 30.94 / 92
p0 −51.35 ± 2.702
pull
Entries 93
Mean −5.223e+04
Std Dev 0

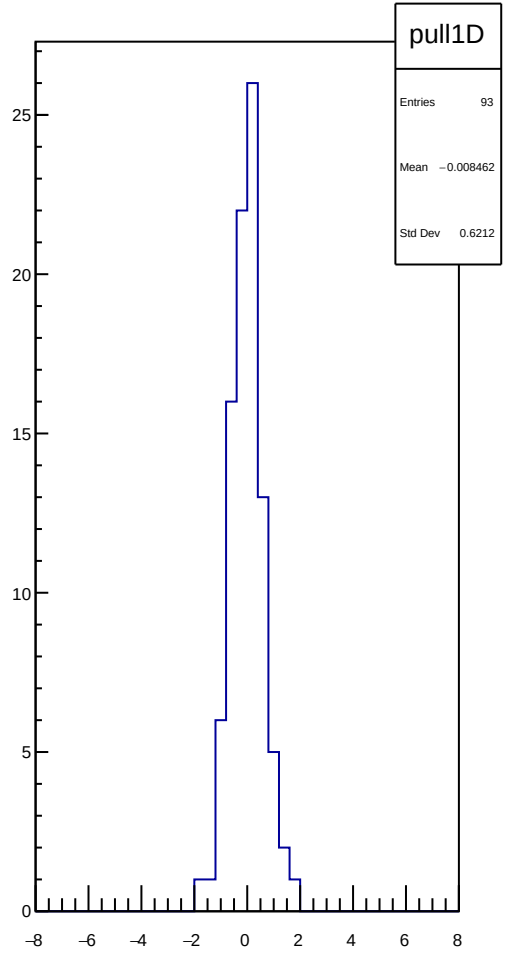

pull1D
Entries 93
Mean 6.915e−05
Std Dev 0.5768

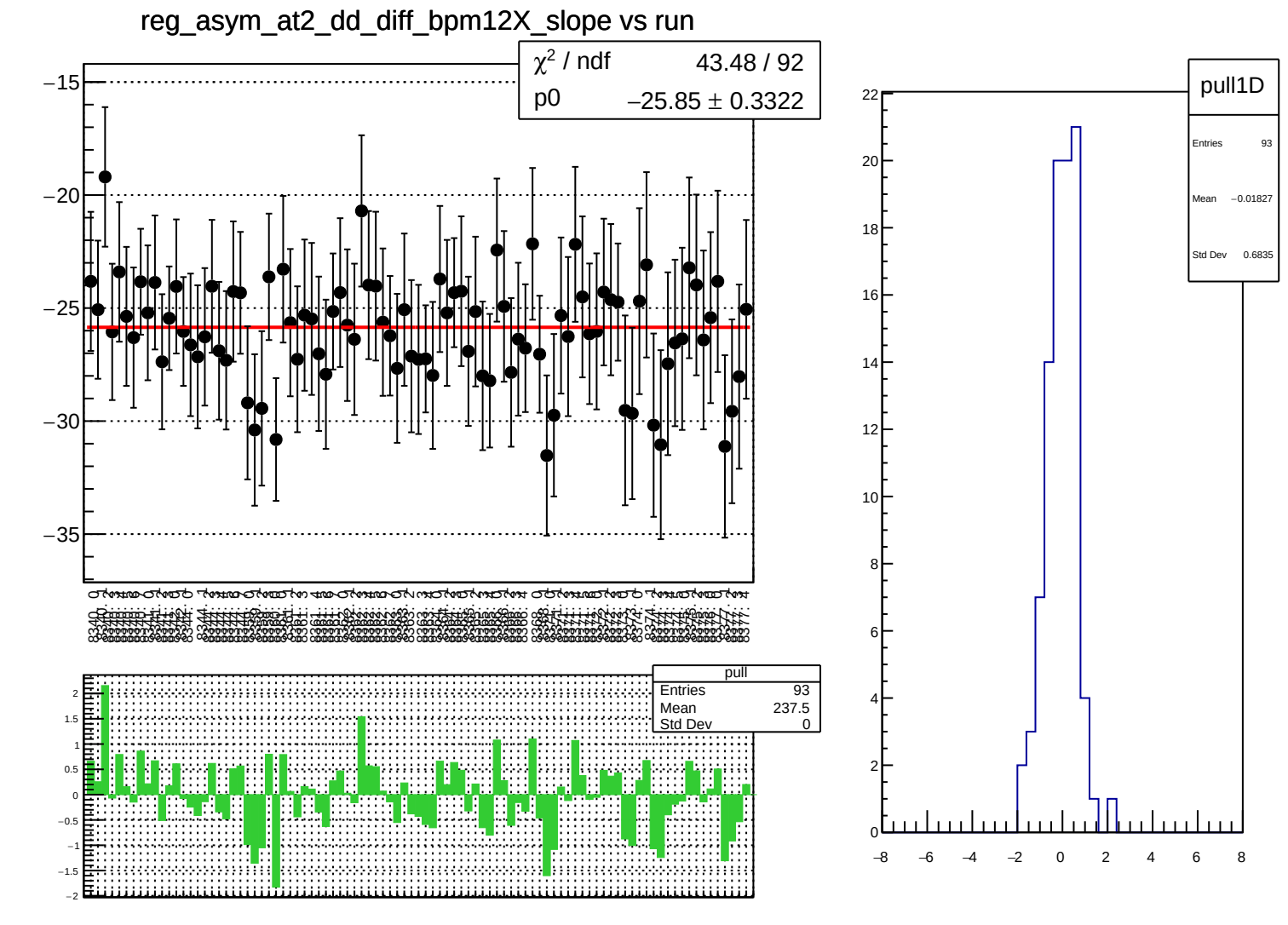

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 34.32 / 92
p0 13.69 ± 5.372
150
100
50
0
−50
−100
pull
Entries 93
Mean 310.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.008518
Std Dev 0.6074
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

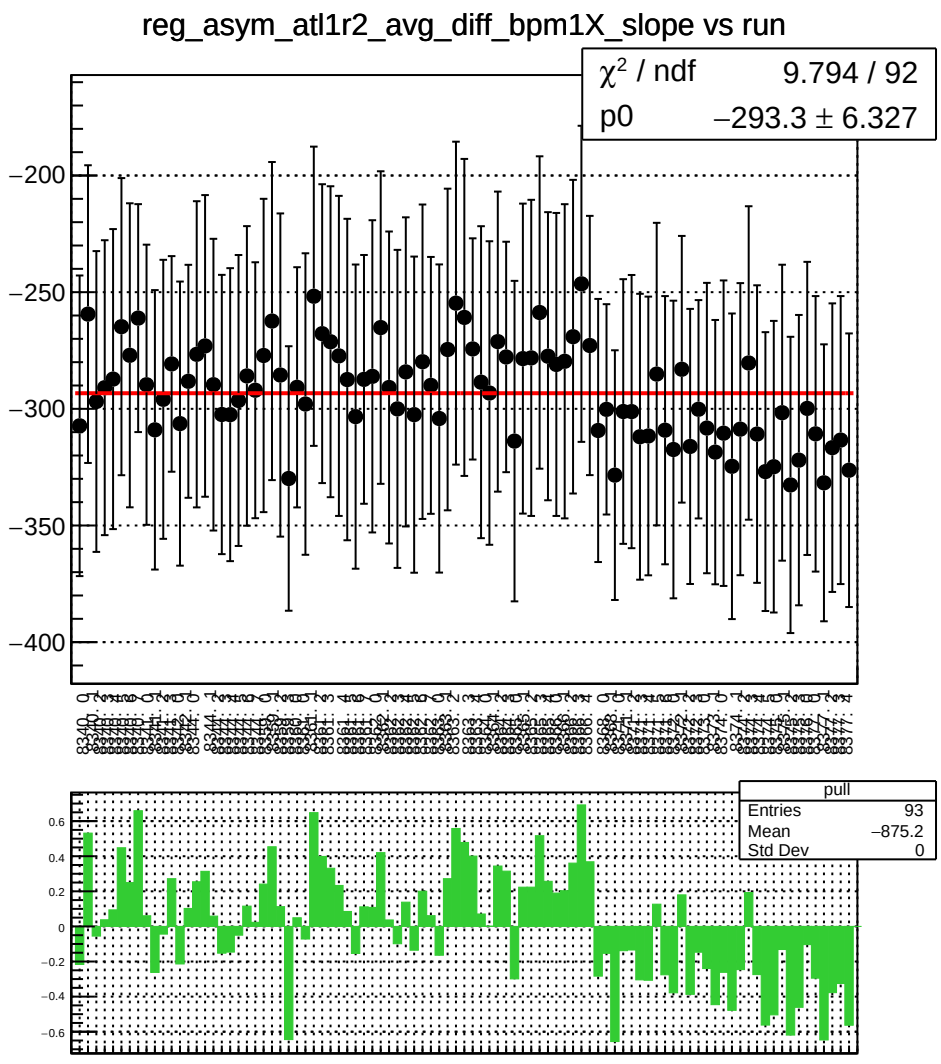

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.33 / 92
p0 131.1 ± 3.104
pull
Entries 93
Mean 1013
Std Dev 0

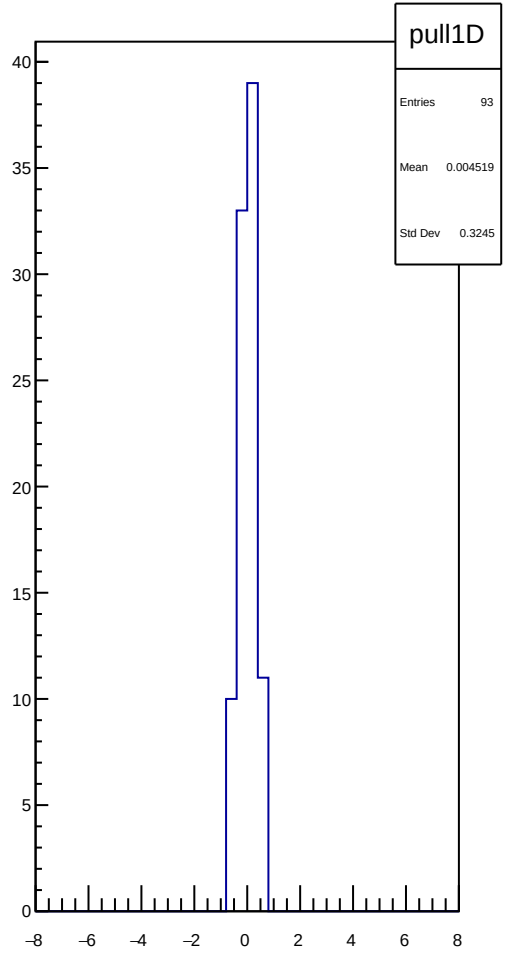

pull1D
Entries 93
Mean 0.002999
Std Dev 0.5896

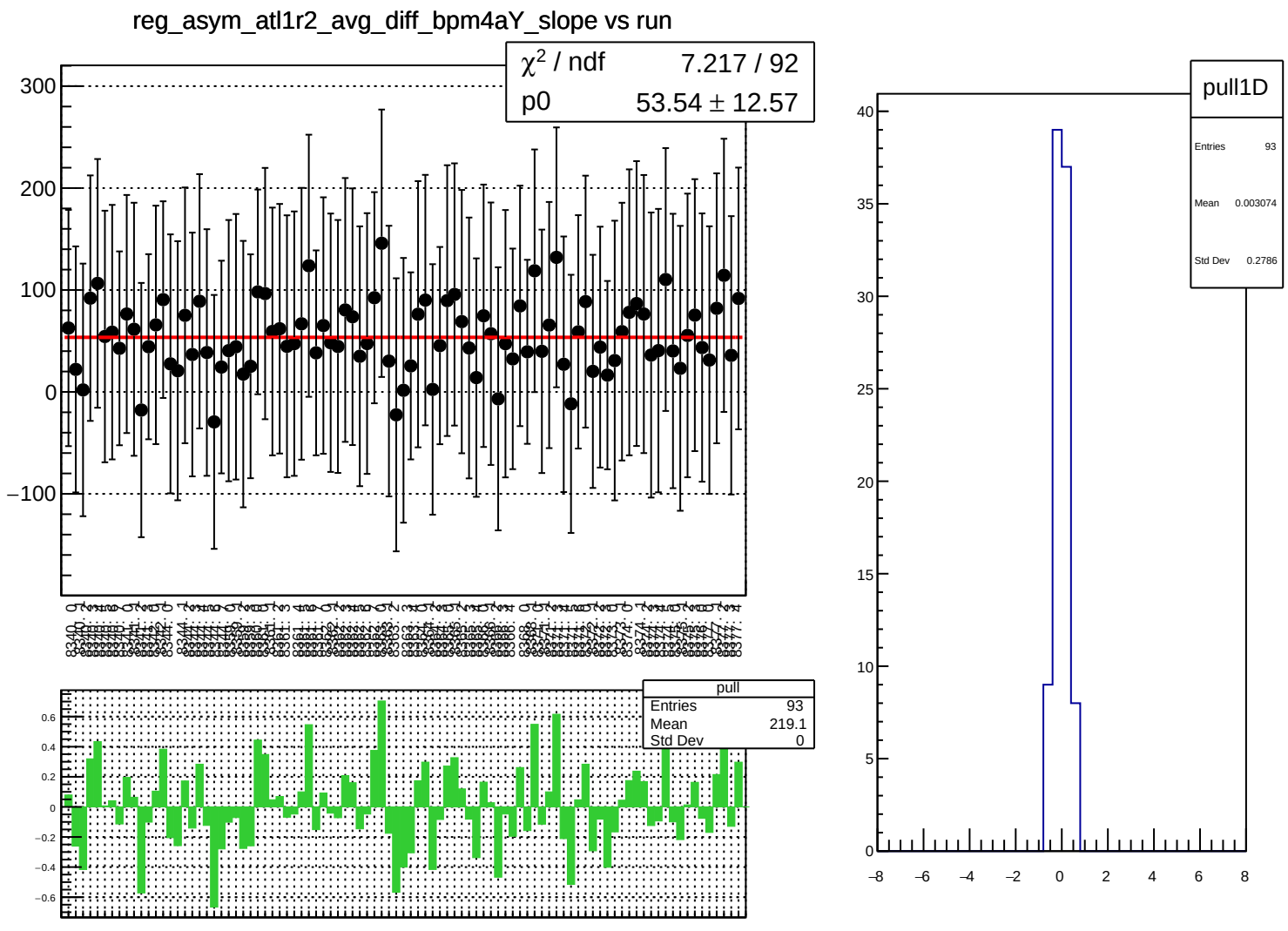

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.89 / 92
p0 −5.006 ± 5.548
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 330
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

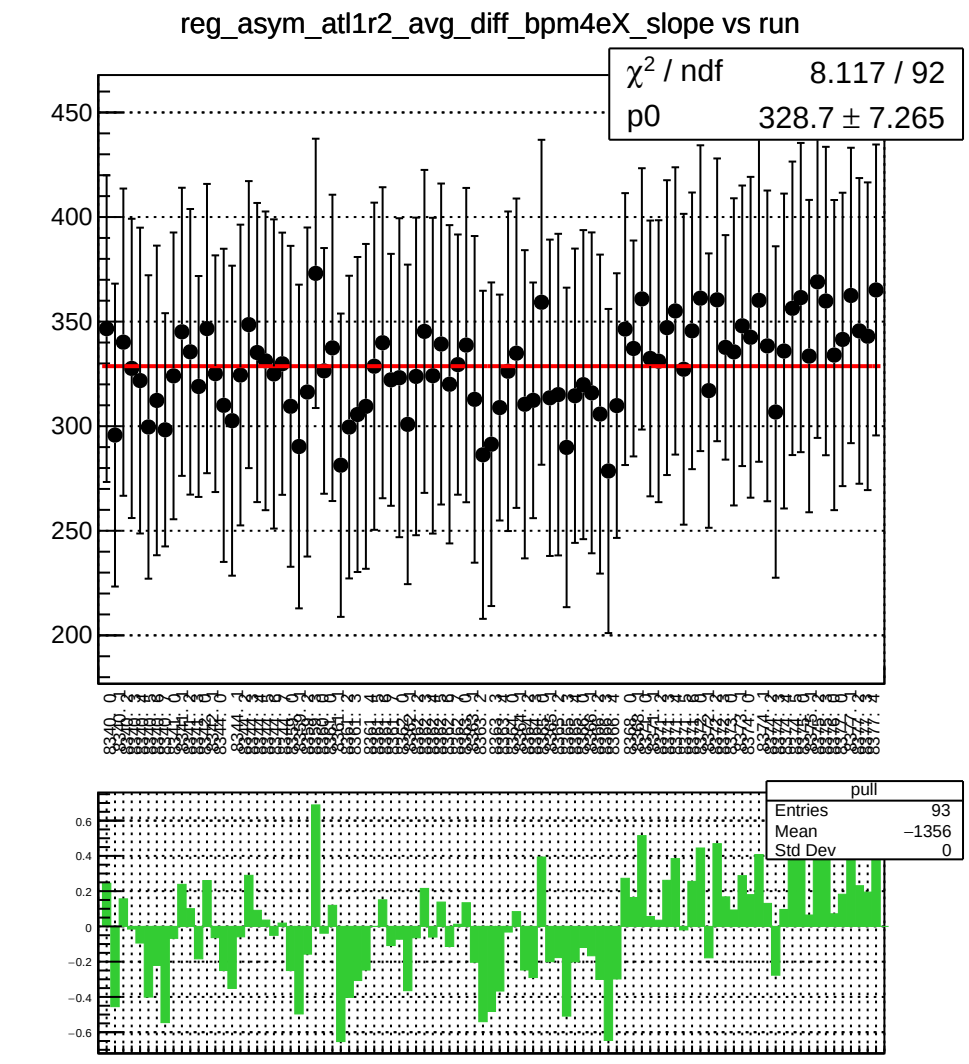

pull1D
Entries 93
Mean −0.008462
Std Dev 0.6212
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

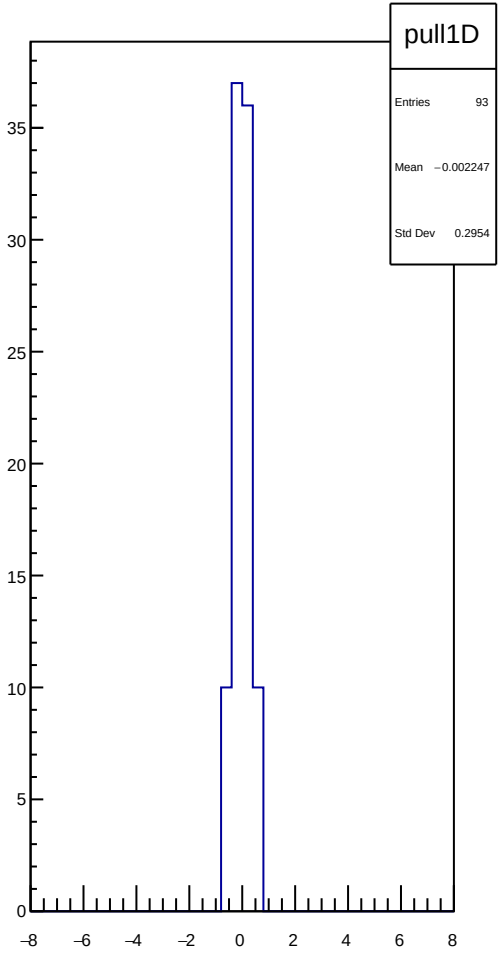

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 43.48 / 92
p0 −25.85 ± 0.3322
pull
Entries 93
Mean 237.5
Std Dev 0
pull1D
Entries 93
Mean −0.01827
Std Dev 0.6835

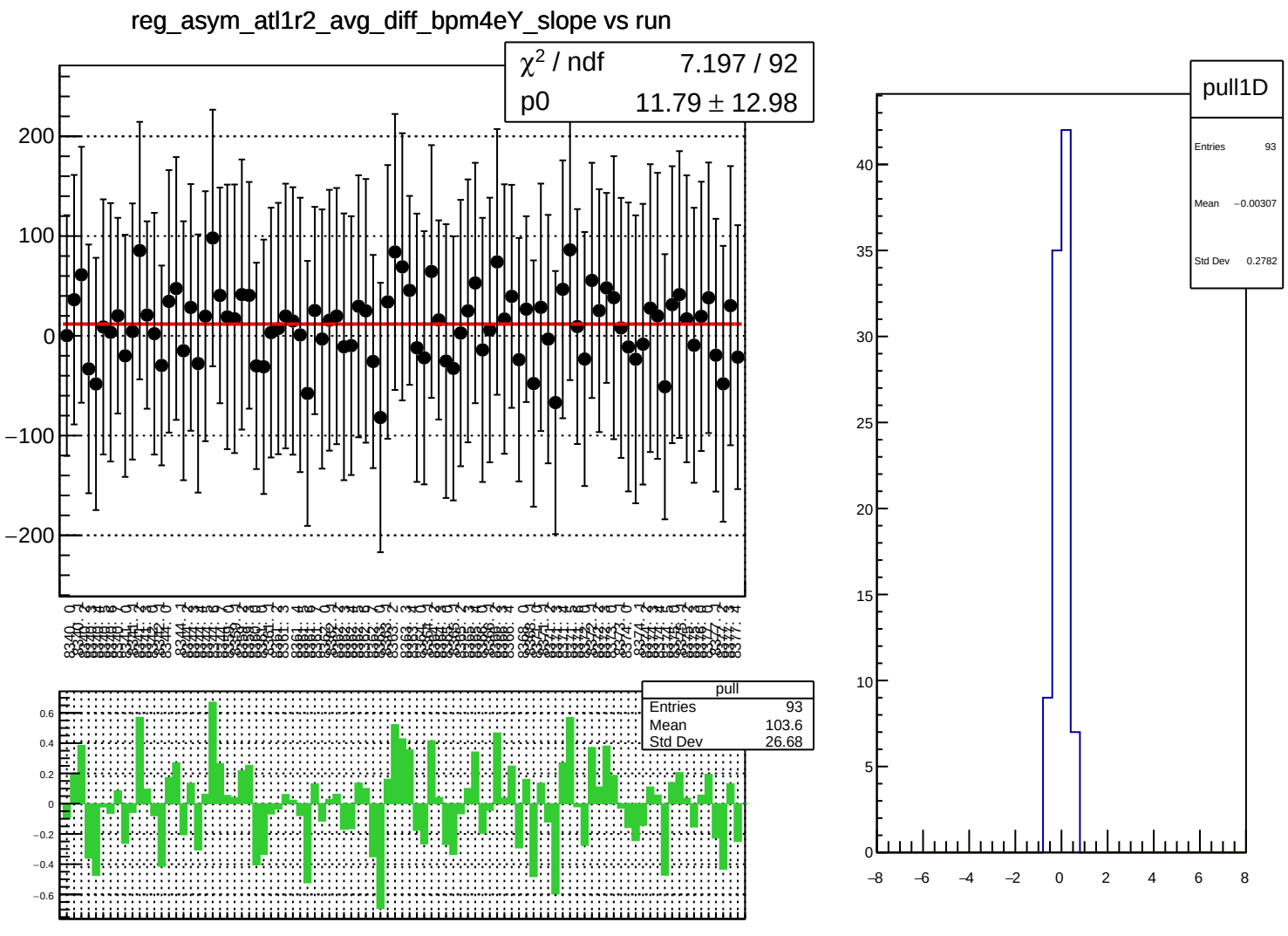

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.794 / 92
p0 −293.3 ± 6.327
−200
−250
−300
−350
−400
pull
Entries 93
Mean −875.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

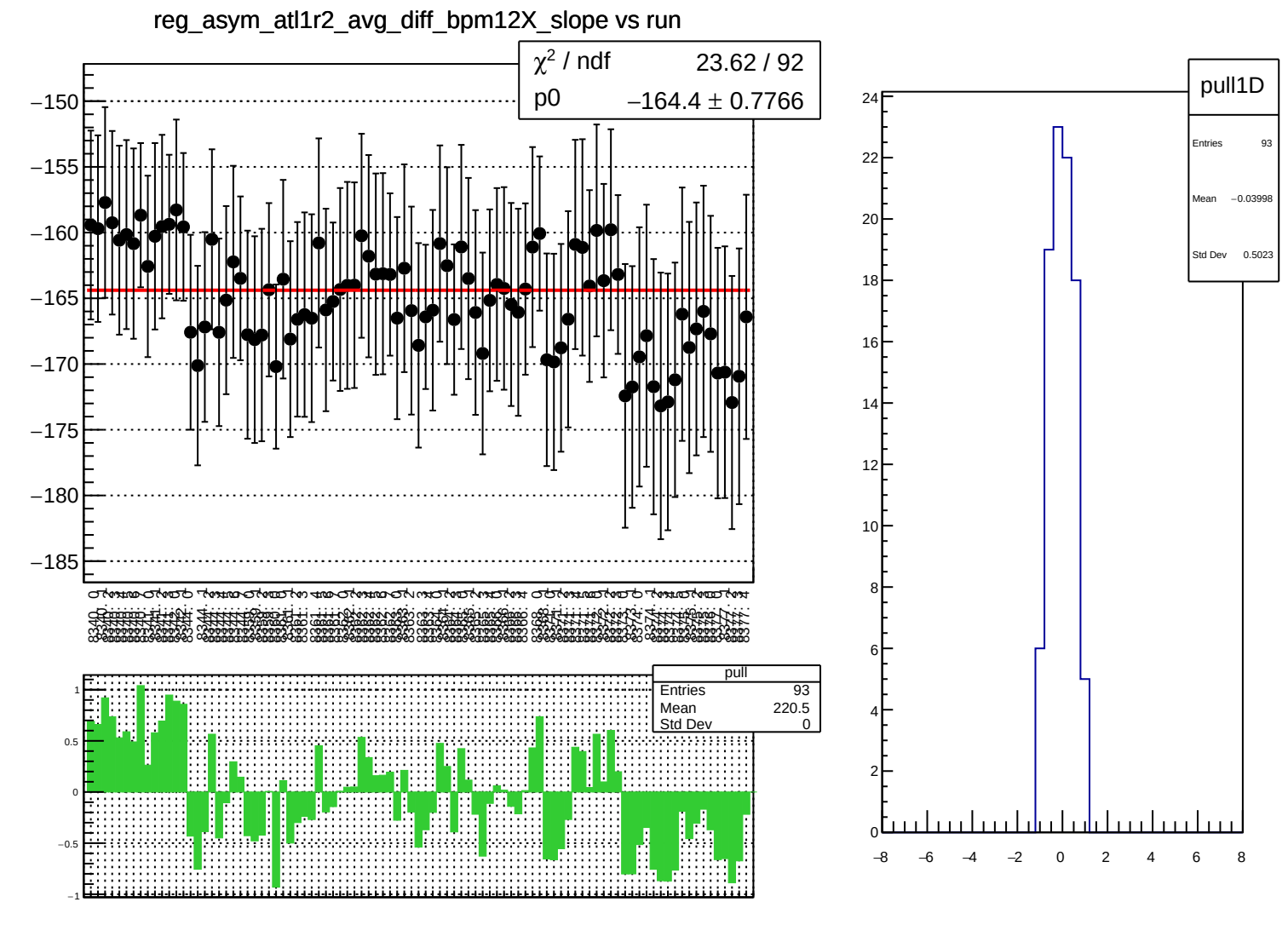

pull1D
Entries 93
Mean 0.004519
Std Dev 0.3245
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

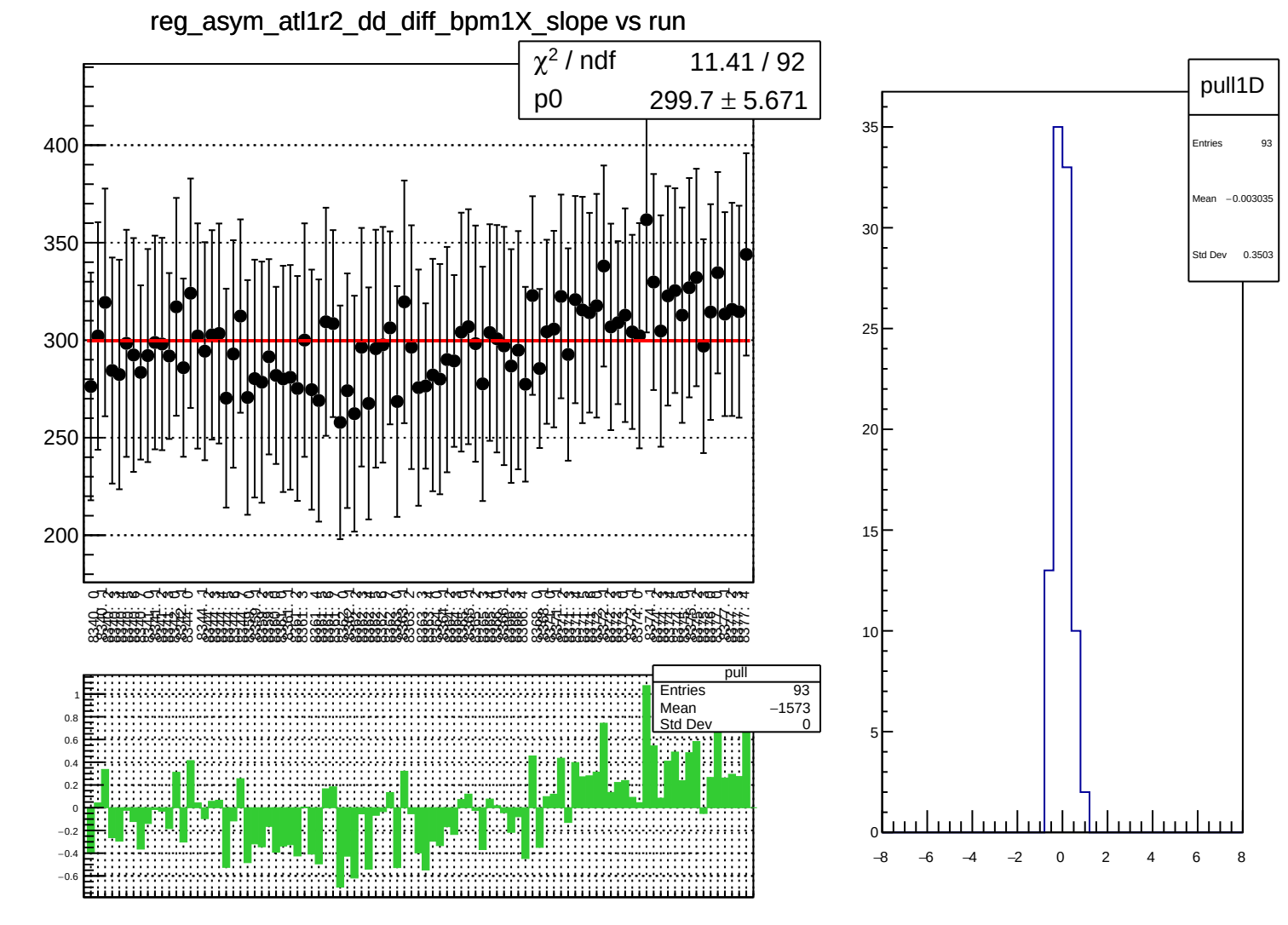

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.217 / 92
p0 53.54 ± 12.57
300
200
100
0
−100
pull
Entries 93
Mean 219.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.003074
Std Dev 0.2786
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

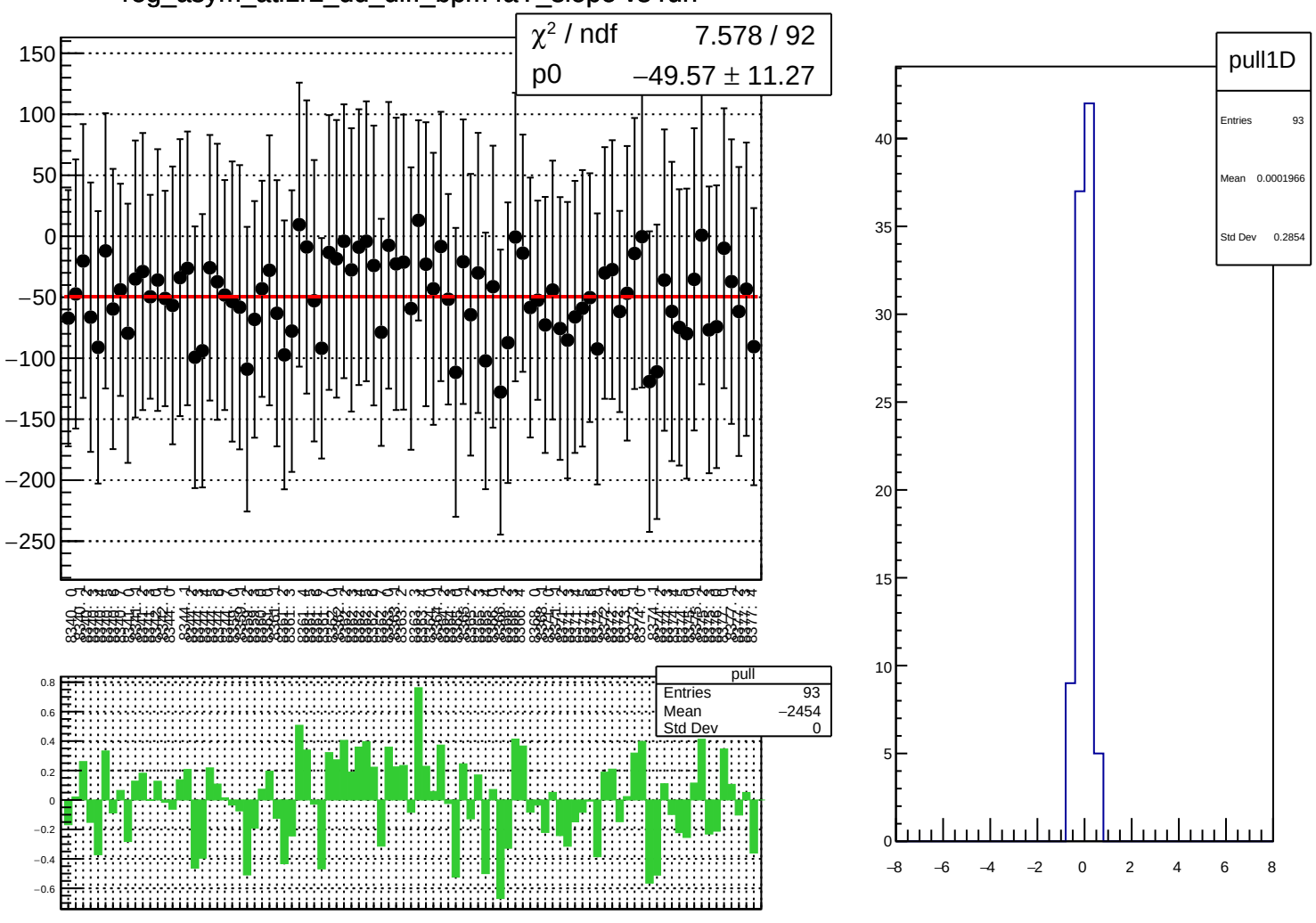

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.117 / 92
p0 328.7 ± 7.265
450
400
350
300
250
200
pull
Entries 93
Mean −1356
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

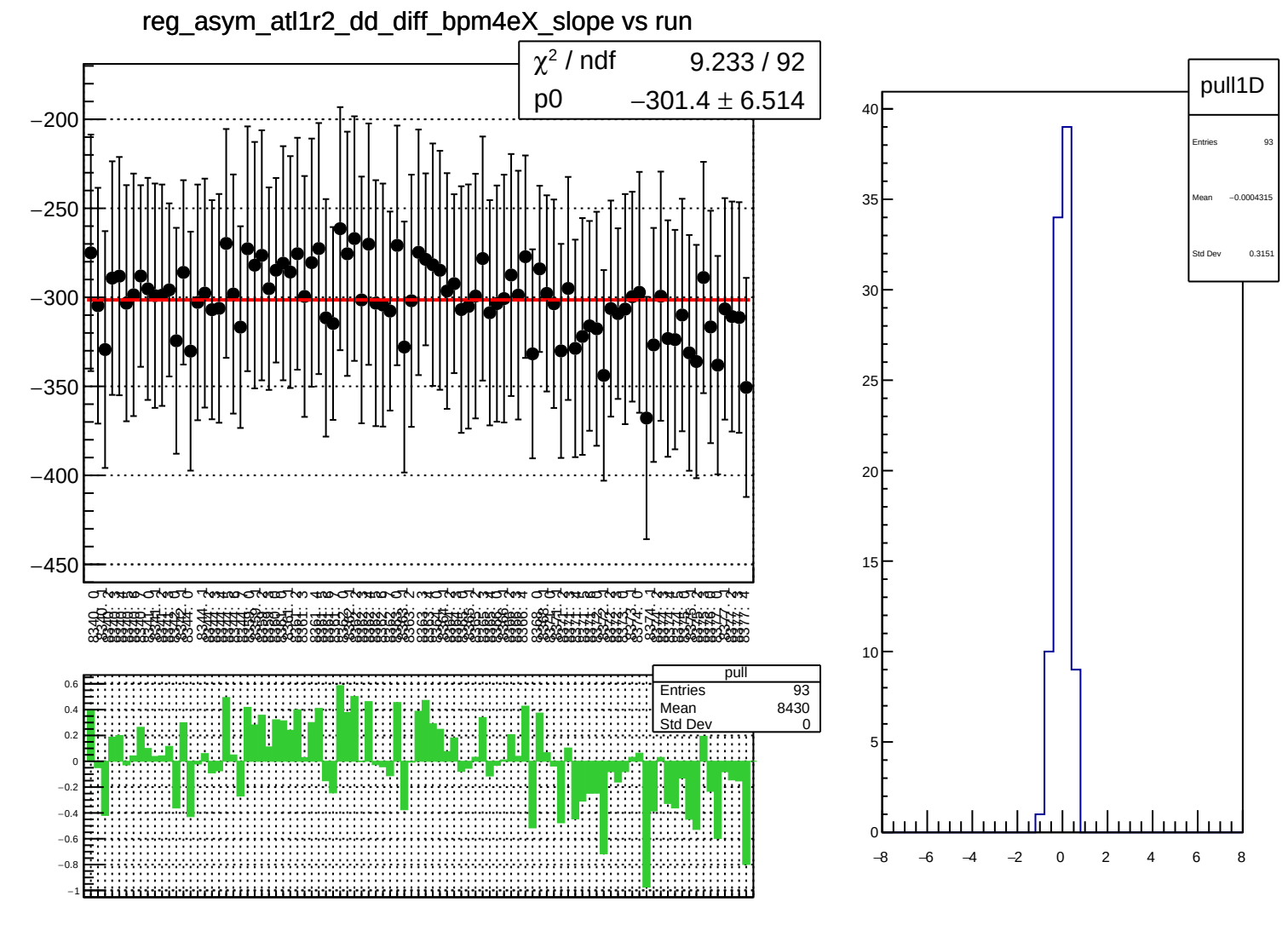

pull1D
Entries 93
Mean −0.002247
Std Dev 0.2954
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

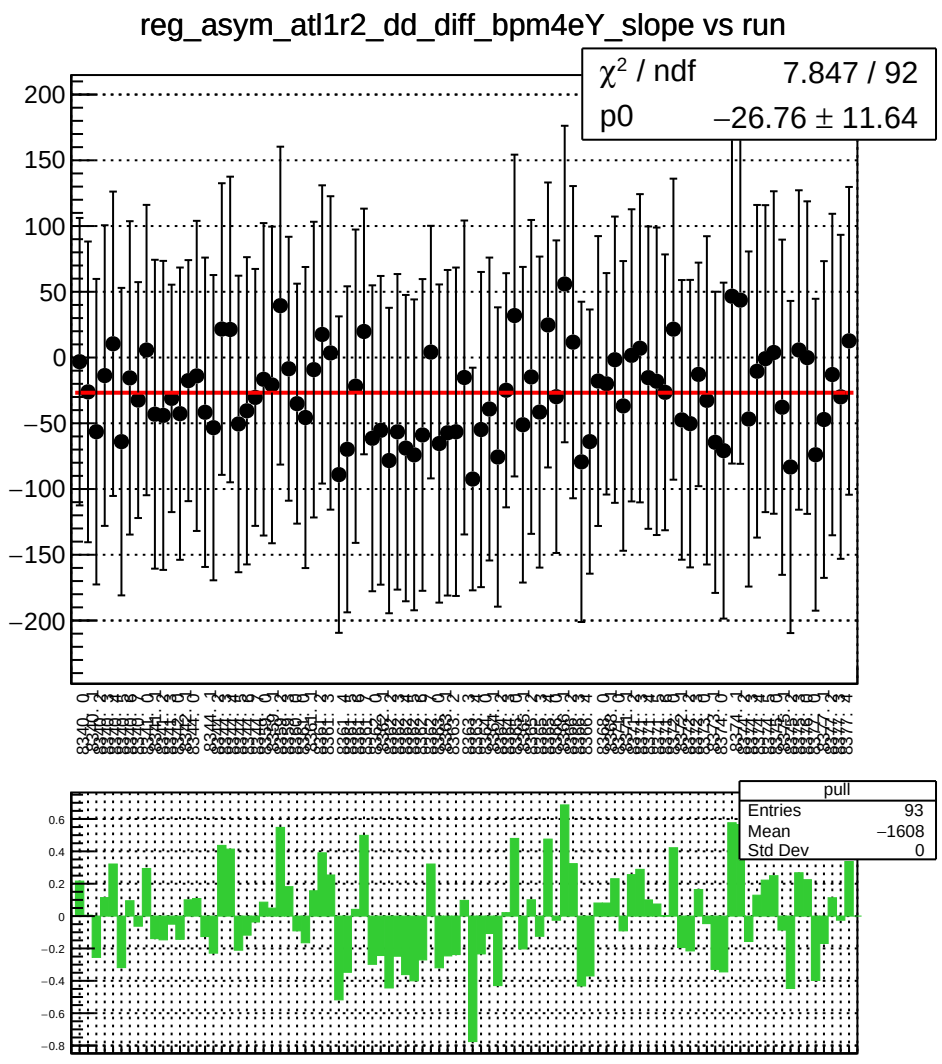

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.197 / 92
p0 11.79 ± 12.98
200
100
0
−100
−200
pull
Entries 93
Mean 103.6
Std Dev 26.68
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.00307
Std Dev 0.2782
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

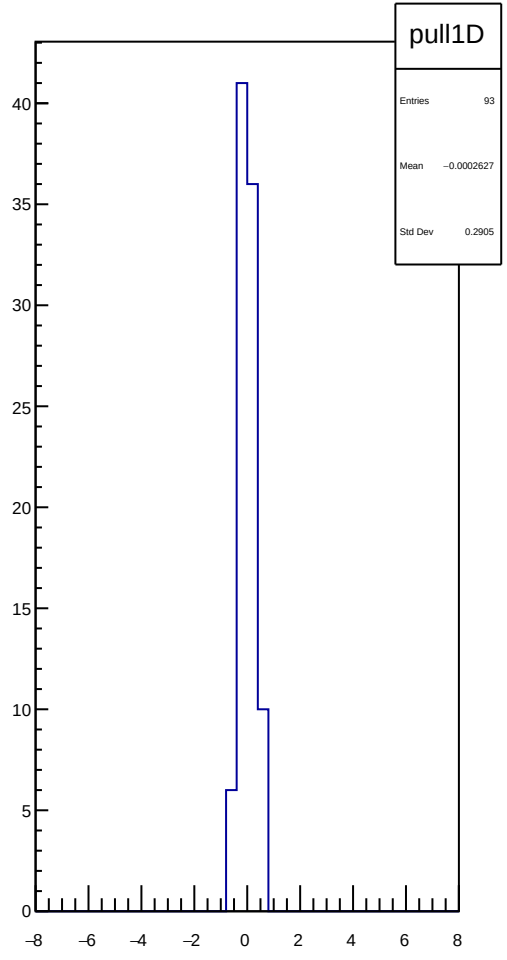

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.62 / 92
p0 −164.4 ± 0.7766
pull
Entries 93
Mean 220.5
Std Dev 0
pull1D
Entries 93
Mean −0.03998
Std Dev 0.5023

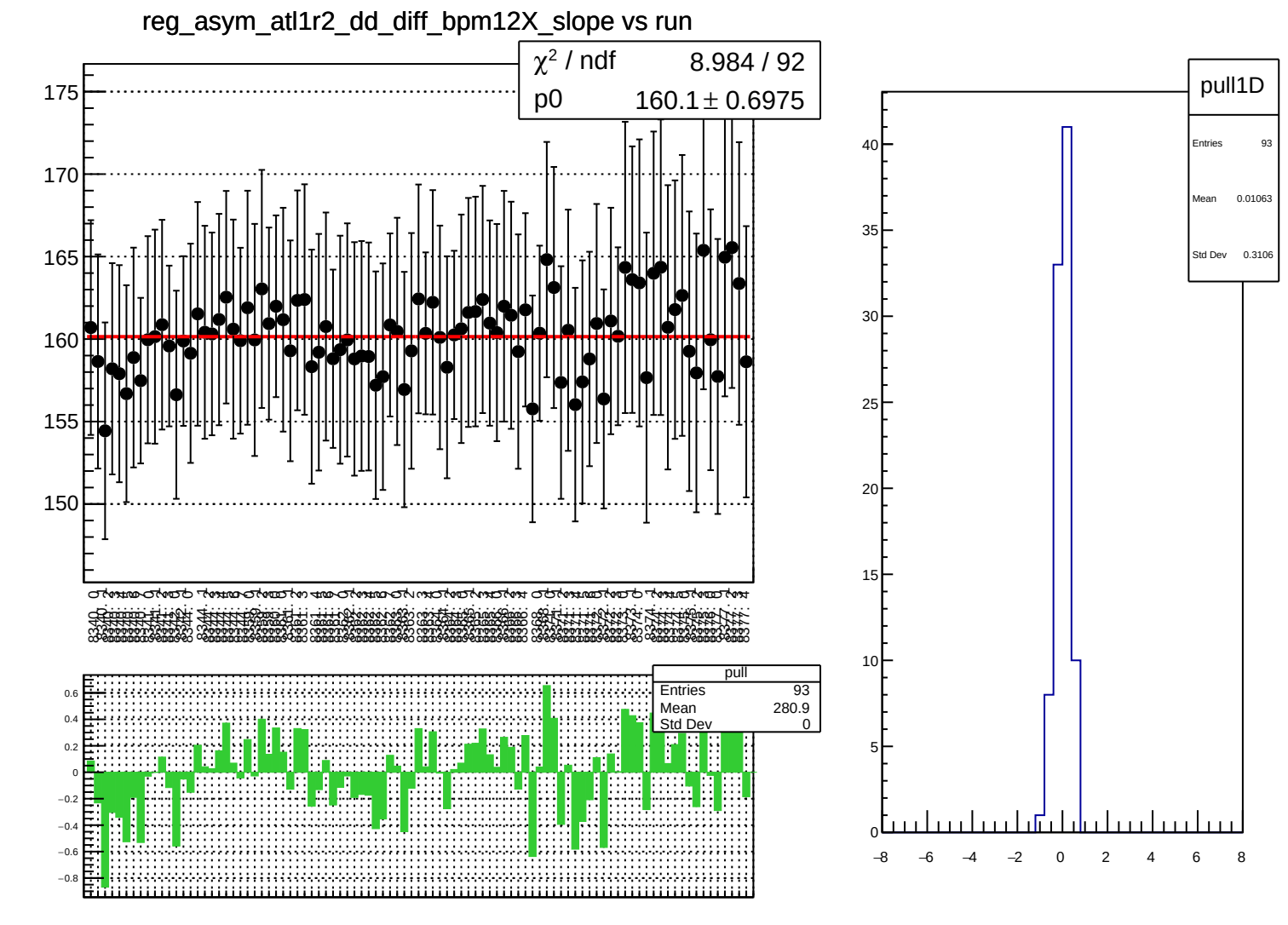

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.41 / 92
p0 299.7 ± 5.671
400
350
300
250
200
pull
Entries 93
Mean −1573
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.003035
Std Dev 0.3503
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

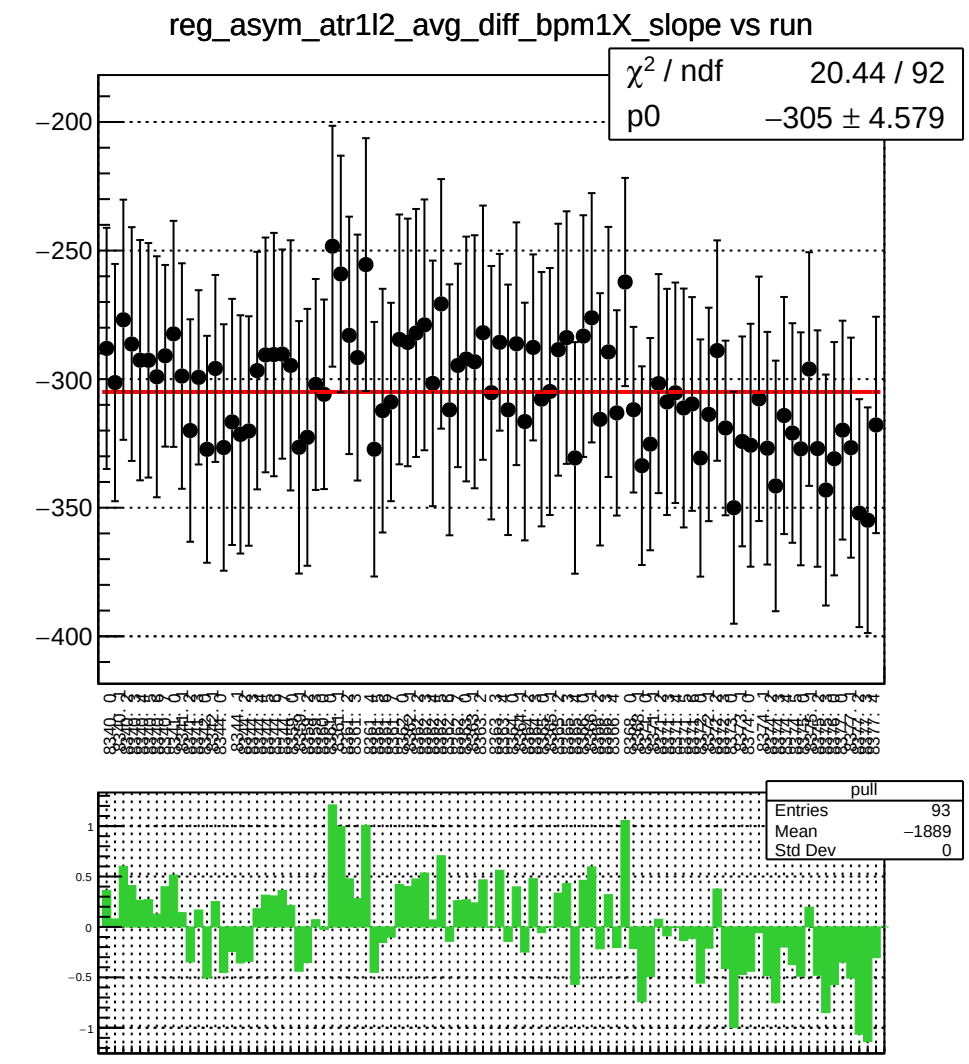

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.578 / 92
p0 −49.57 ± 11.27
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −2454
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.0001966
Std Dev 0.2854
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

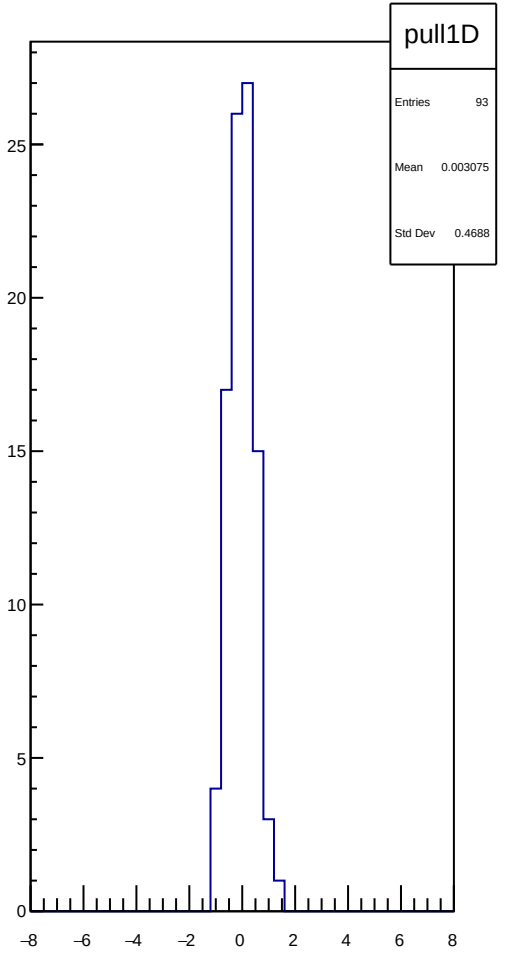

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.233 / 92
p0 −301.4 ± 6.514
−200
−250
−300
−350
−400
−450
pull
Entries 93
Mean 8430
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 93
Mean −0.0004315
Std Dev 0.3151
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

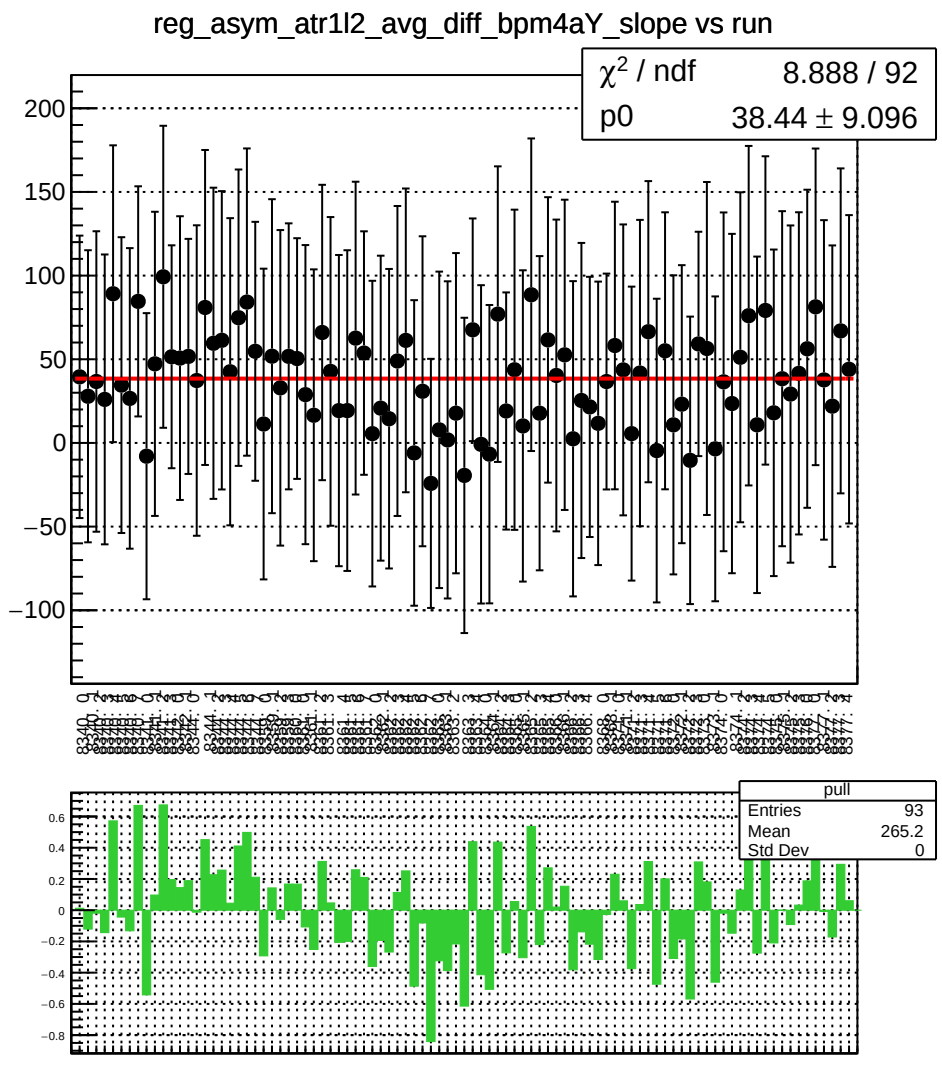

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.847 / 92
p0 −26.76 ± 11.64
pull
Entries 93
Mean −1608
Std Dev 0

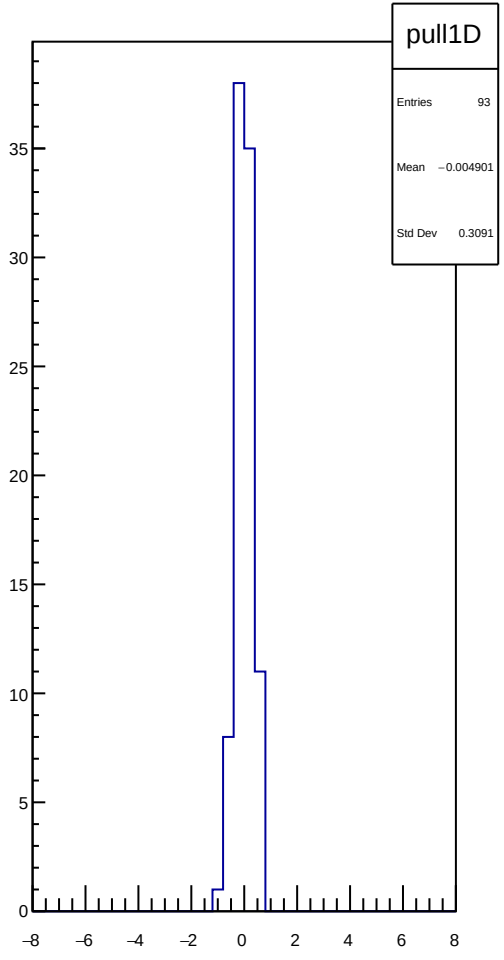

pull1D
Entries 93
Mean −0.0002627
Std Dev 0.2905

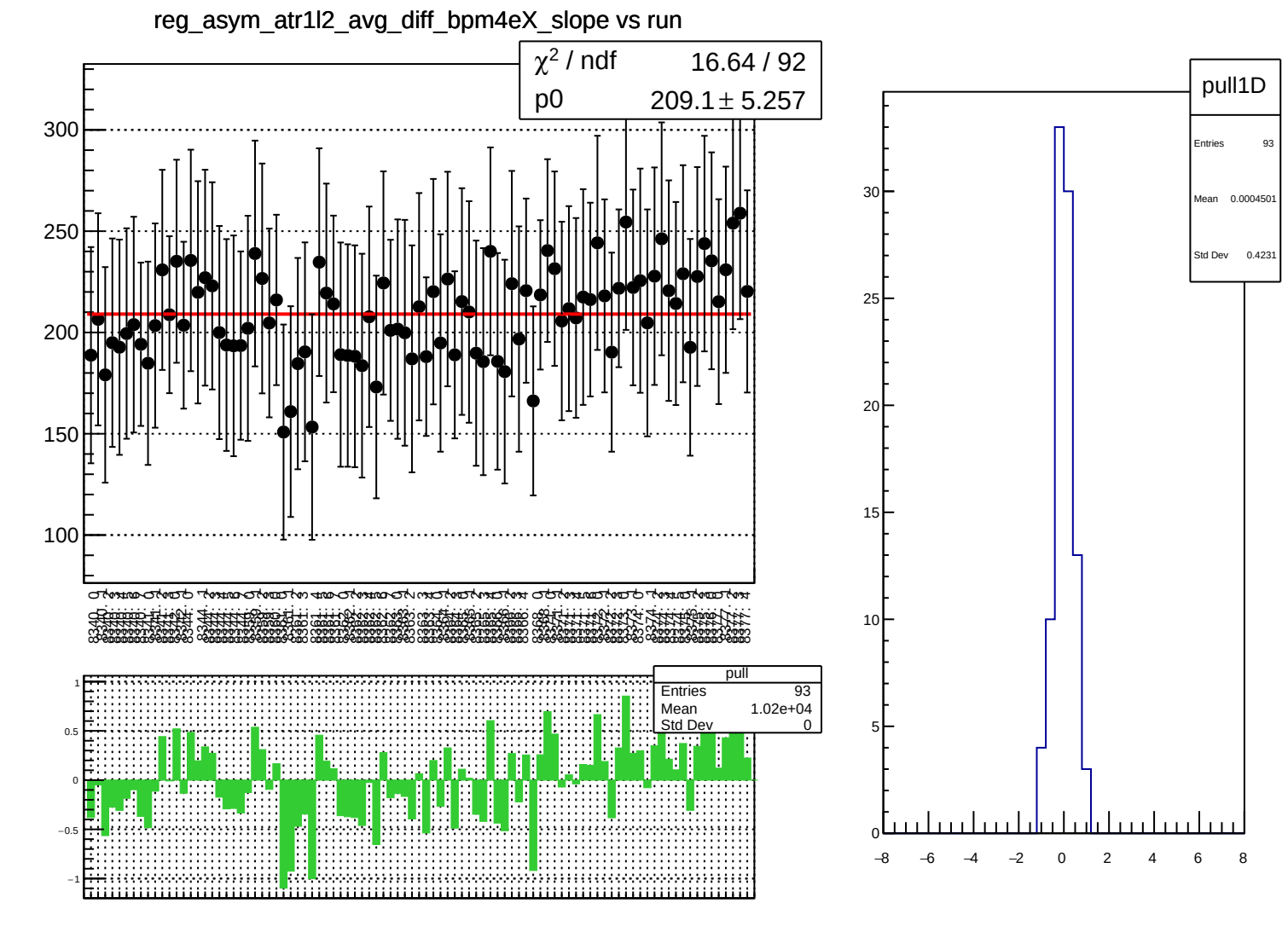

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 8.984 / 92
p0 160.1 ± 0.6975
175
170
165
160
155
150
pull
Entries 93
Mean 280.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.01063
Std Dev 0.3106
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

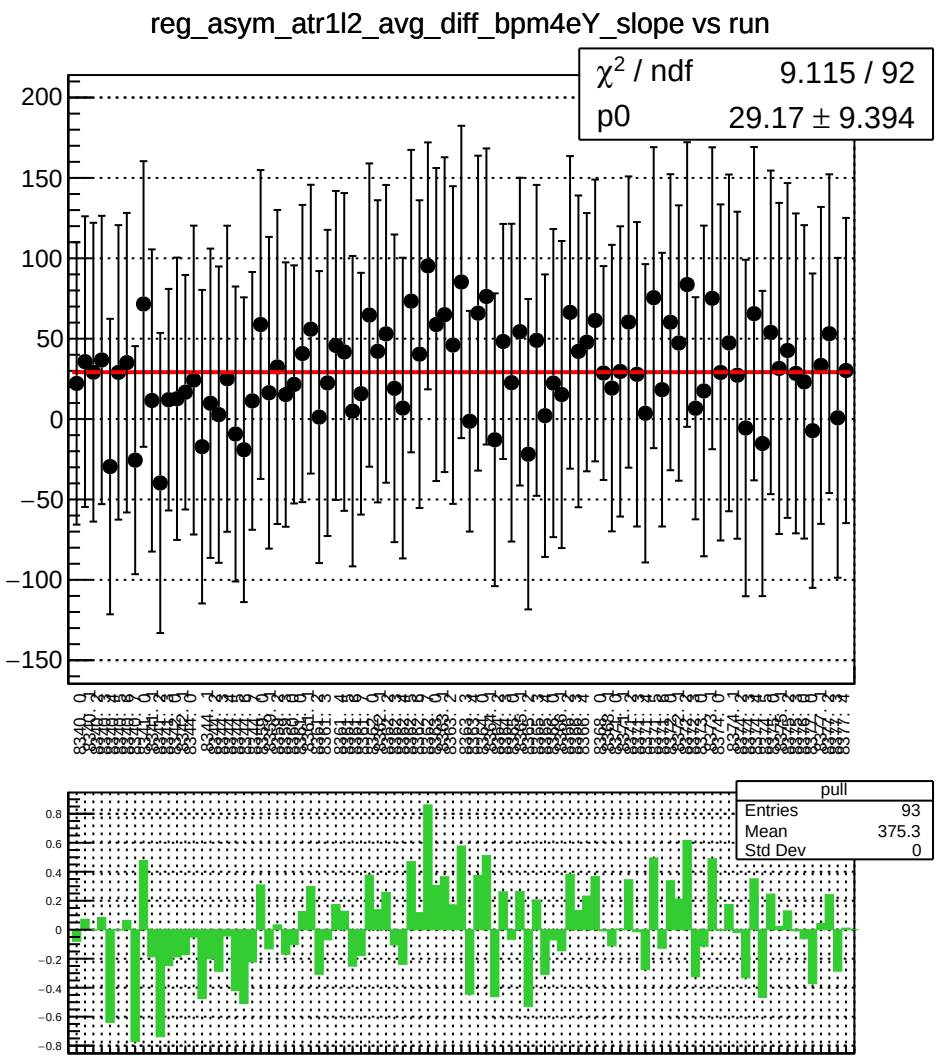

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.44 / 92
p0 −305 ± 4.579
−200
−250
−300
−350
−400
pull
Entries 93
Mean −1889
Std Dev 0
1
0.5
0
−0.5
−1

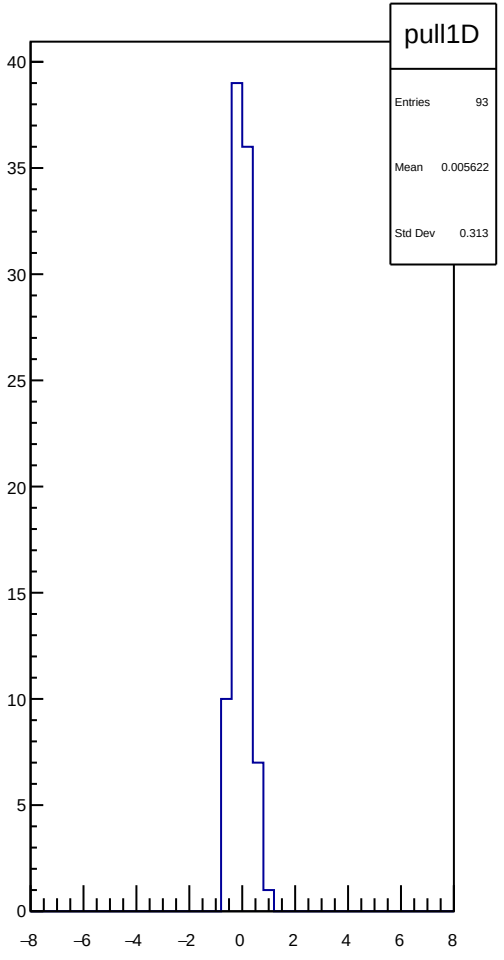

pull1D
Entries 93
Mean 0.003075
Std Dev 0.4688
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

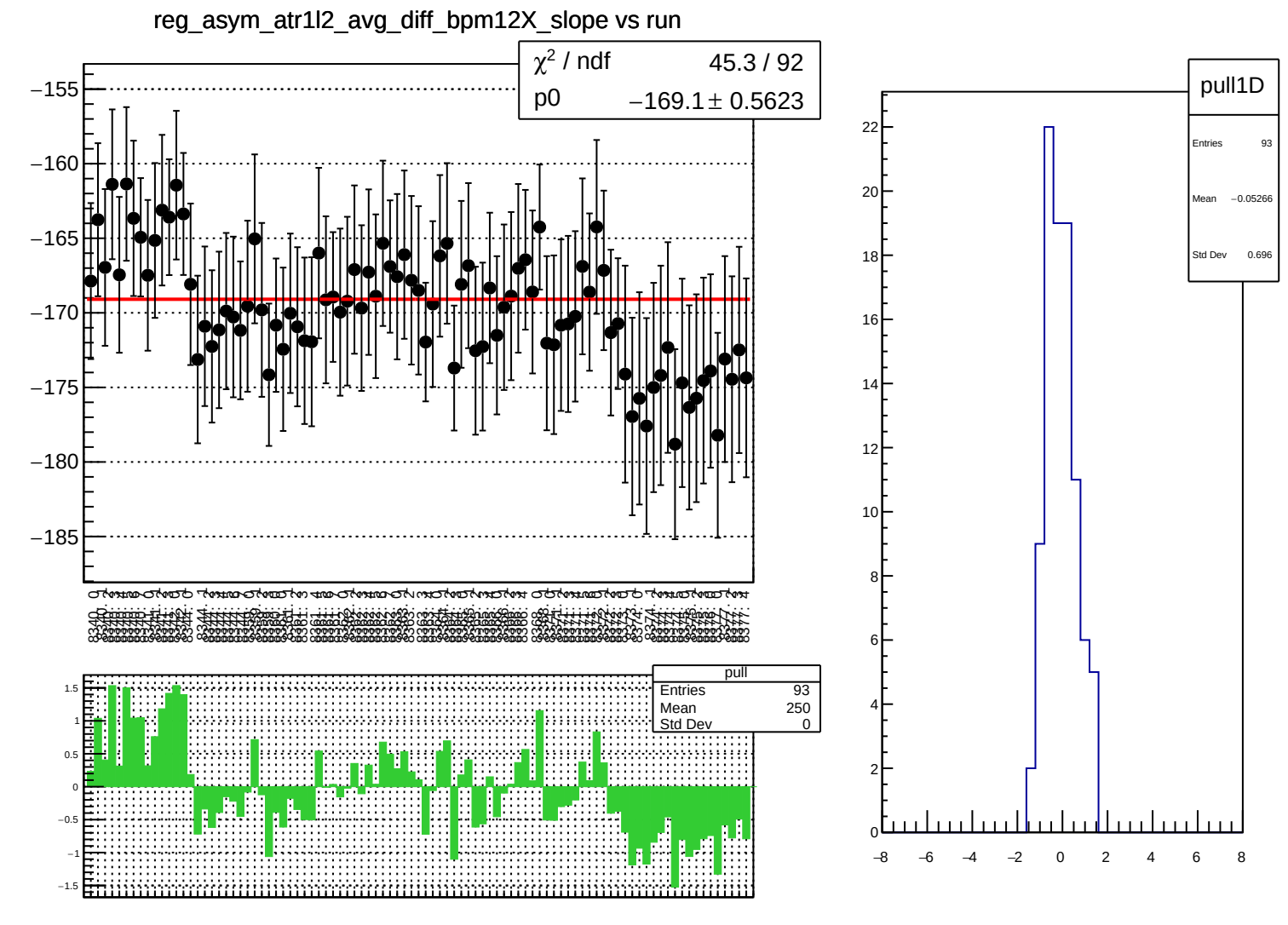

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.888 / 92
p0 38.44 ± 9.096
200
150
100
50
0
−50
−100
pull
Entries 93
Mean 265.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

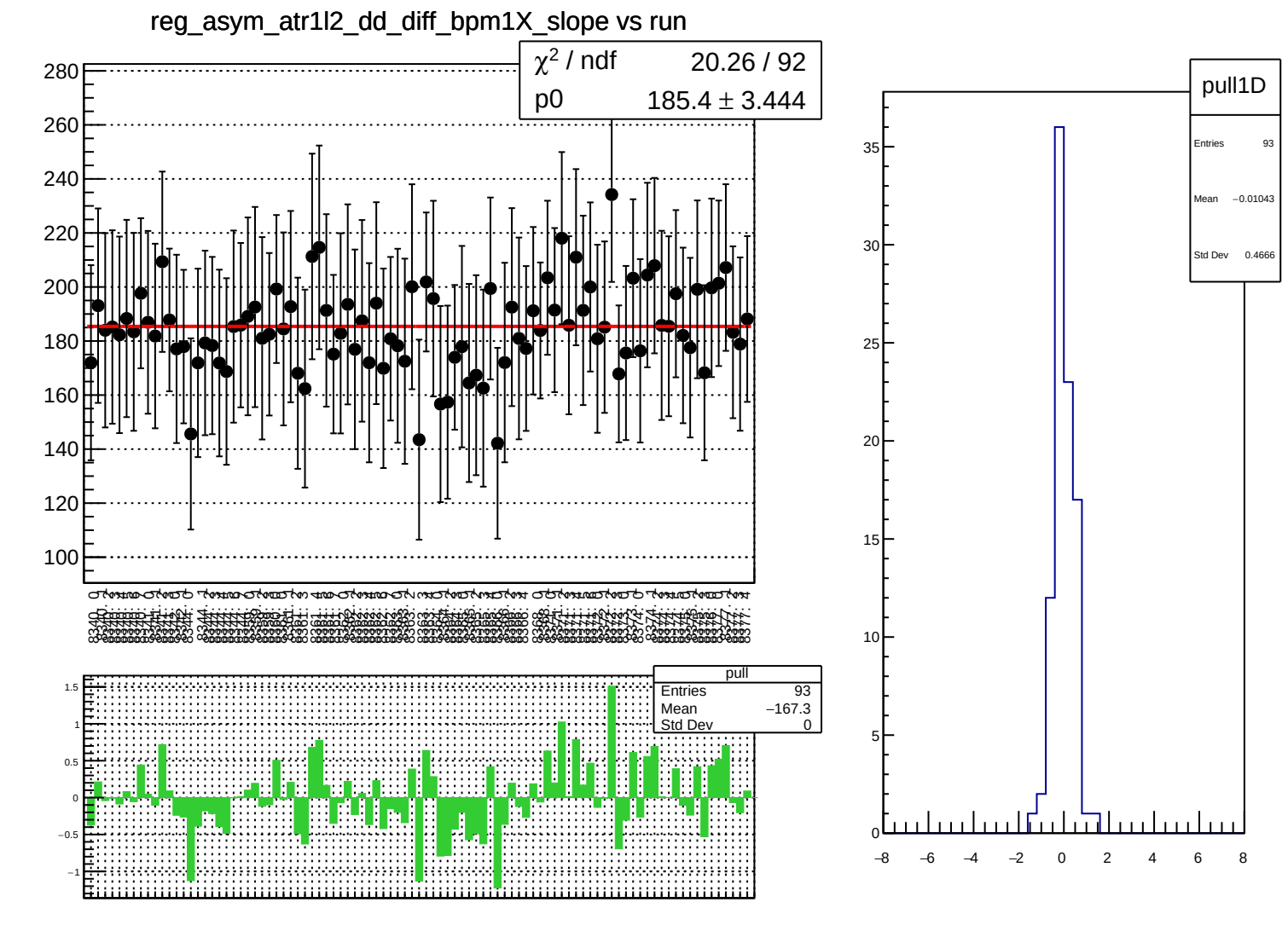

pull1D
Entries 93
Mean −0.004901
Std Dev 0.3091
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

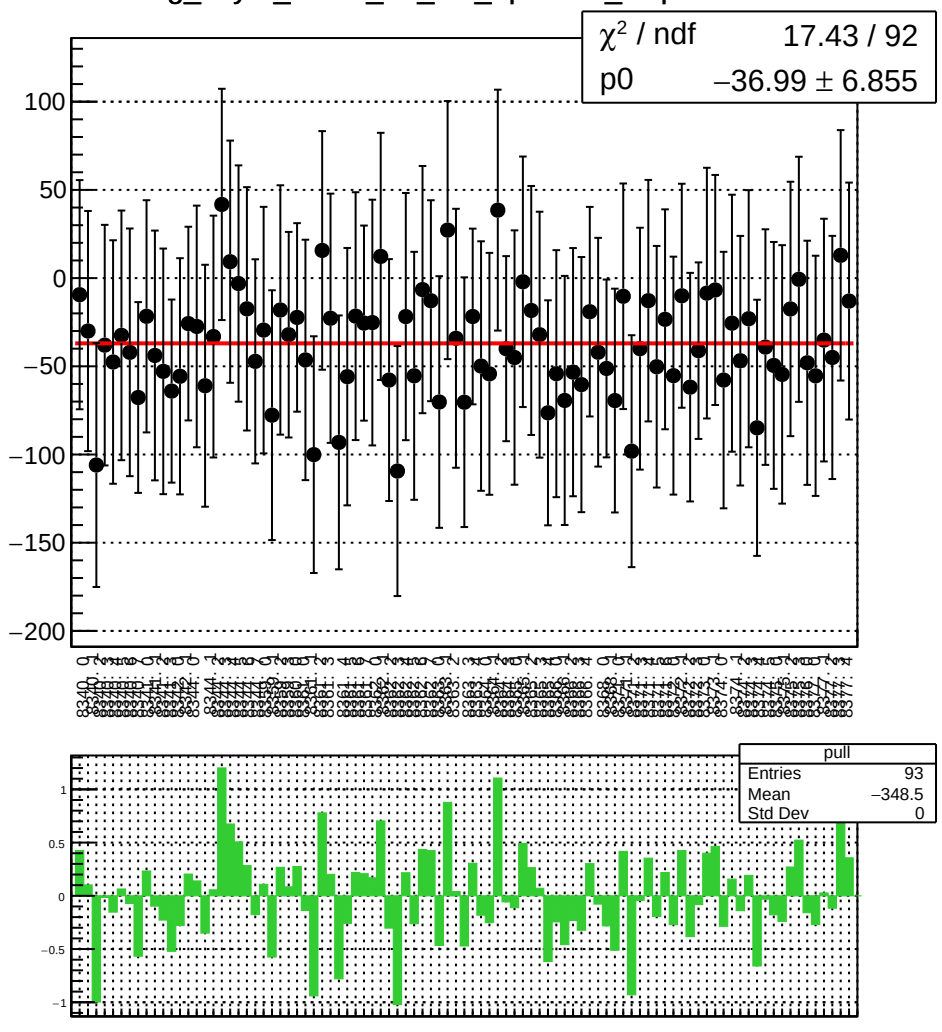

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.64 / 92
p0 209.1 ± 5.257
300
250
200
150
100
pull
Entries 93
Mean 1.02e+04
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.0004501
Std Dev 0.4231
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

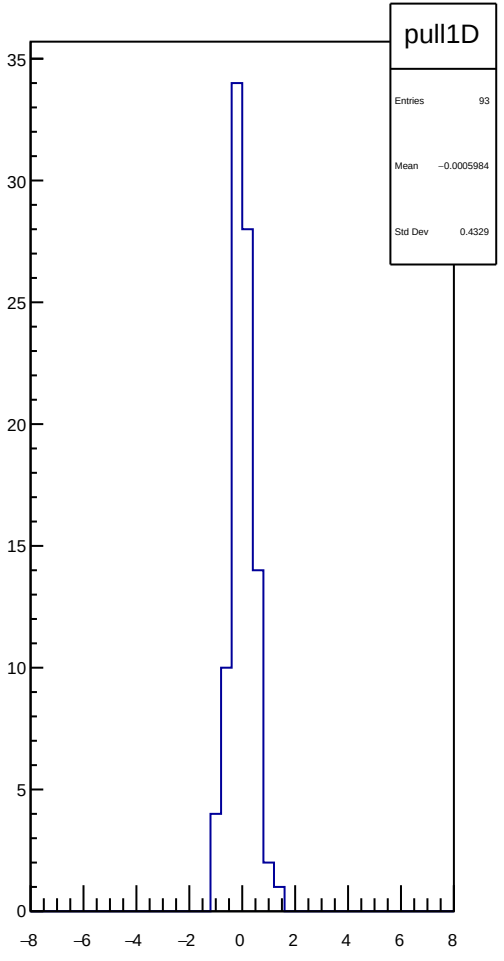

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.115 / 92
p0 29.17 ± 9.394
pull
Entries 93
Mean 375.3
Std Dev 0

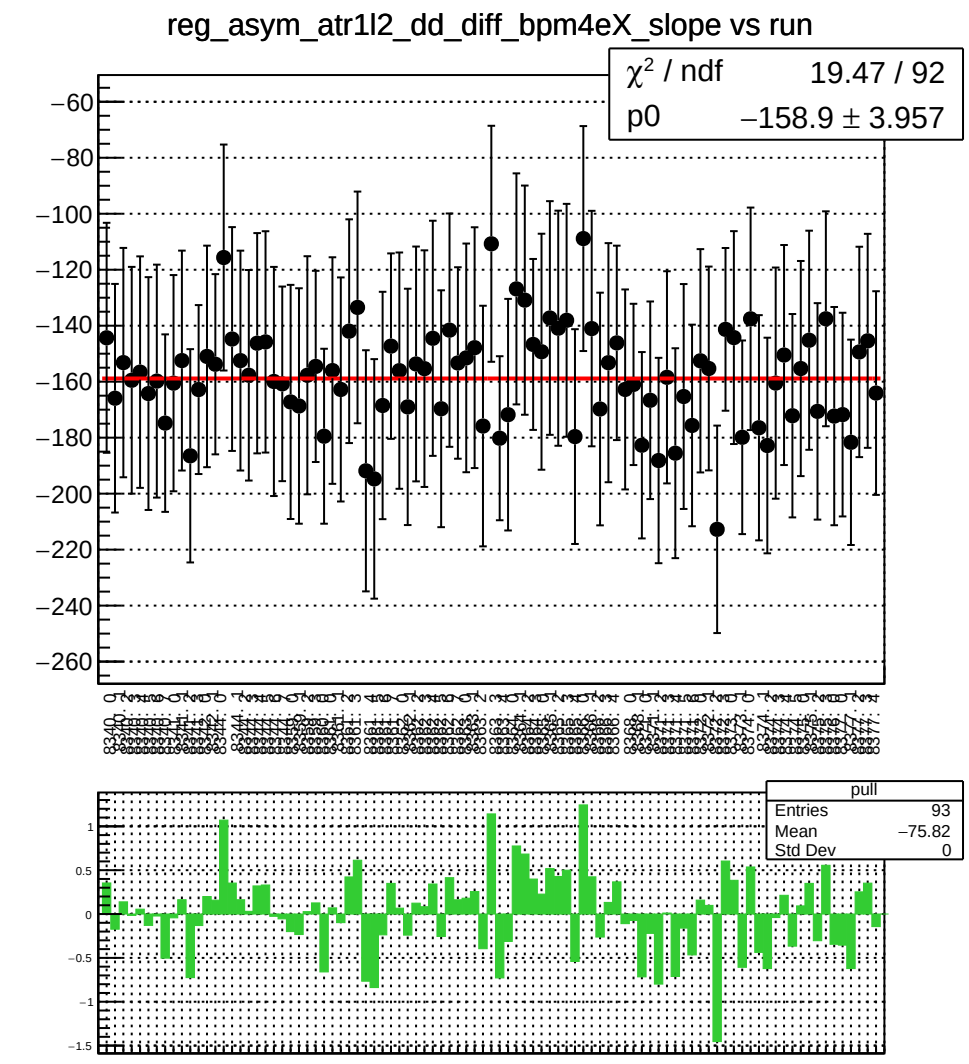

pull1D
Entries 93
Mean 0.005622
Std Dev 0.313

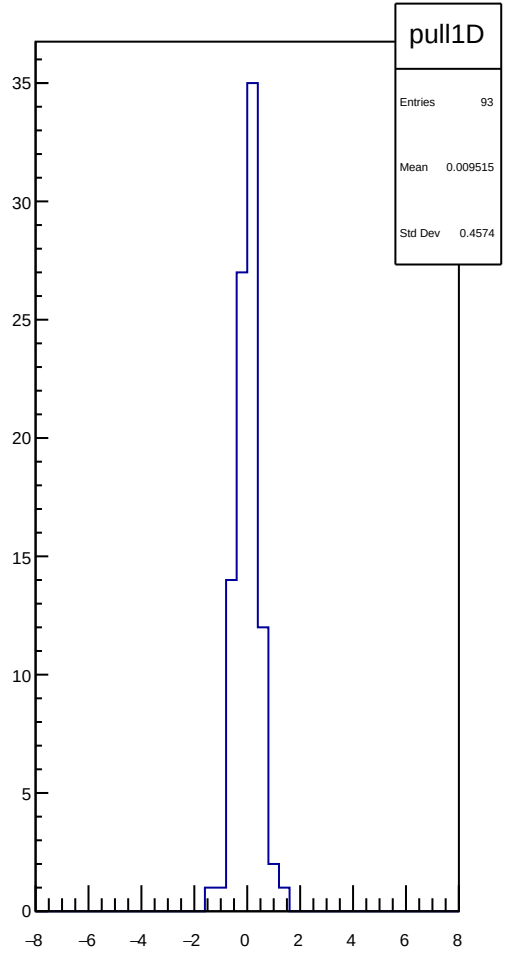

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 45.3 / 92
p0 −169.1 ± 0.5623
pull
Entries 93
Mean 250
Std Dev 0
pull1D
Entries 93
Mean −0.05266
Std Dev 0.696

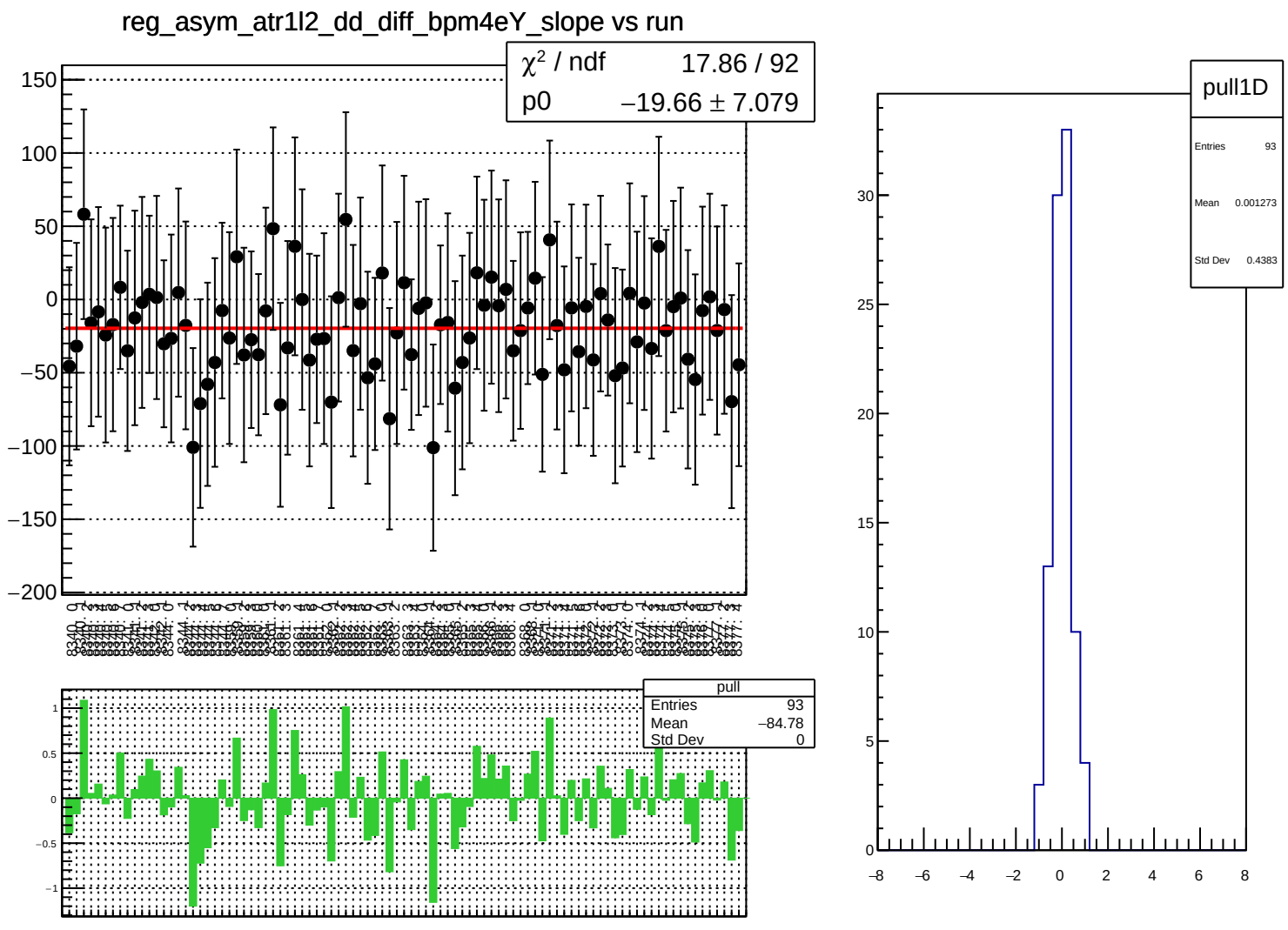

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.26 / 92
p0 185.4 ± 3.444
280
260
240
220
200
180
160
140
120
100
pull
Entries 93
Mean −167.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.01043
Std Dev 0.4666
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

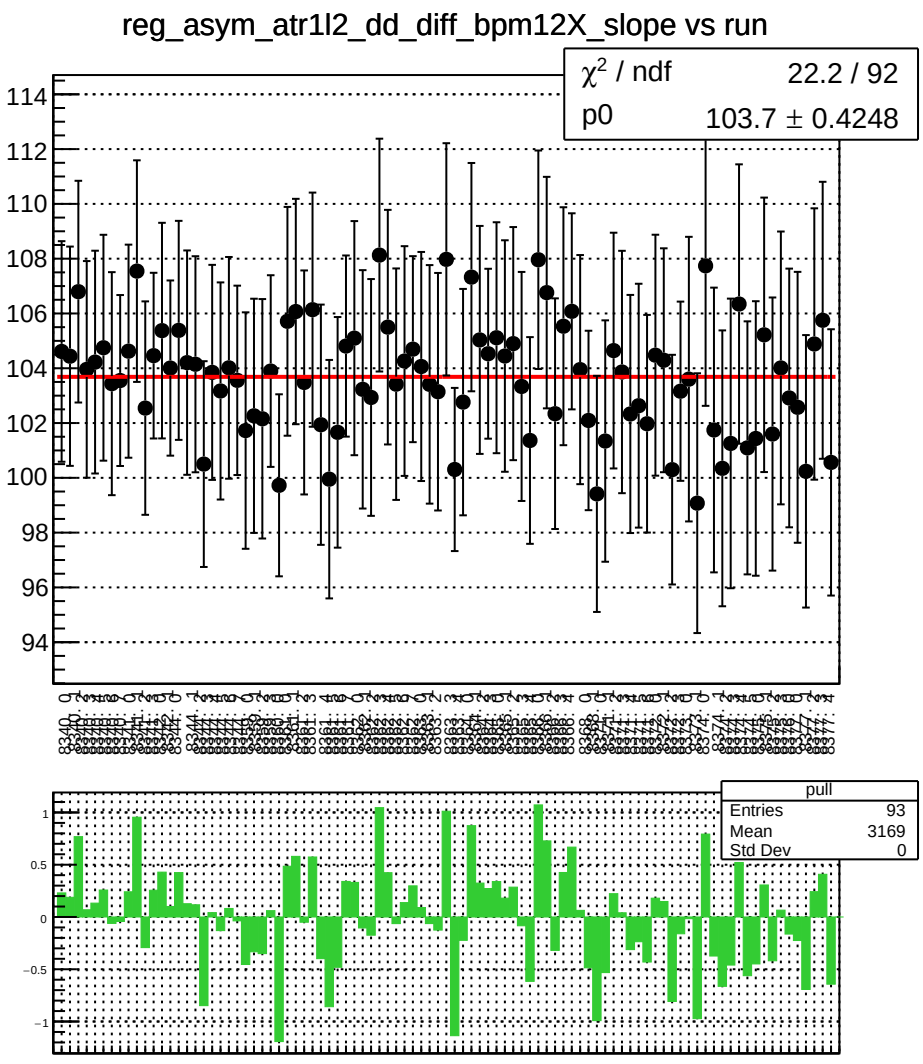

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.43 / 92
p0 −36.99 ± 6.855
pull
Entries 93
Mean −348.5
Std Dev 0

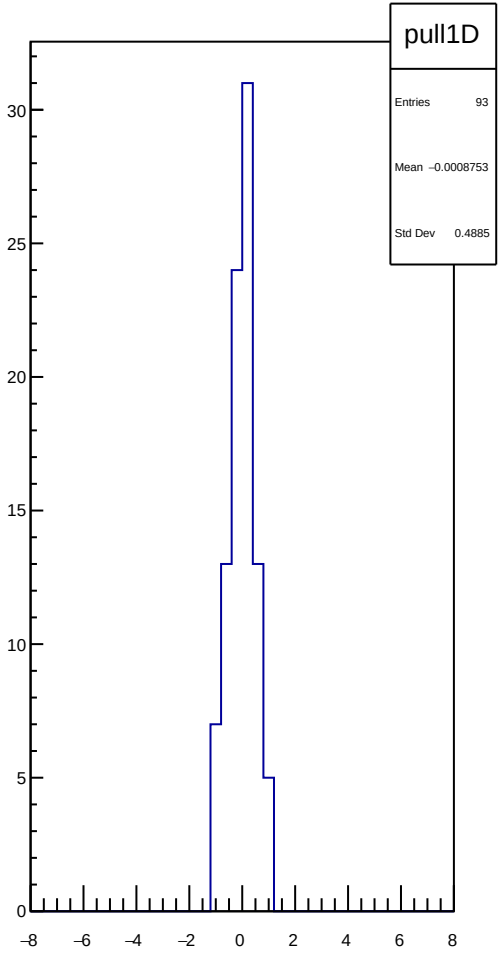

pull1D
Entries 93
Mean −0.0005984
Std Dev 0.4329

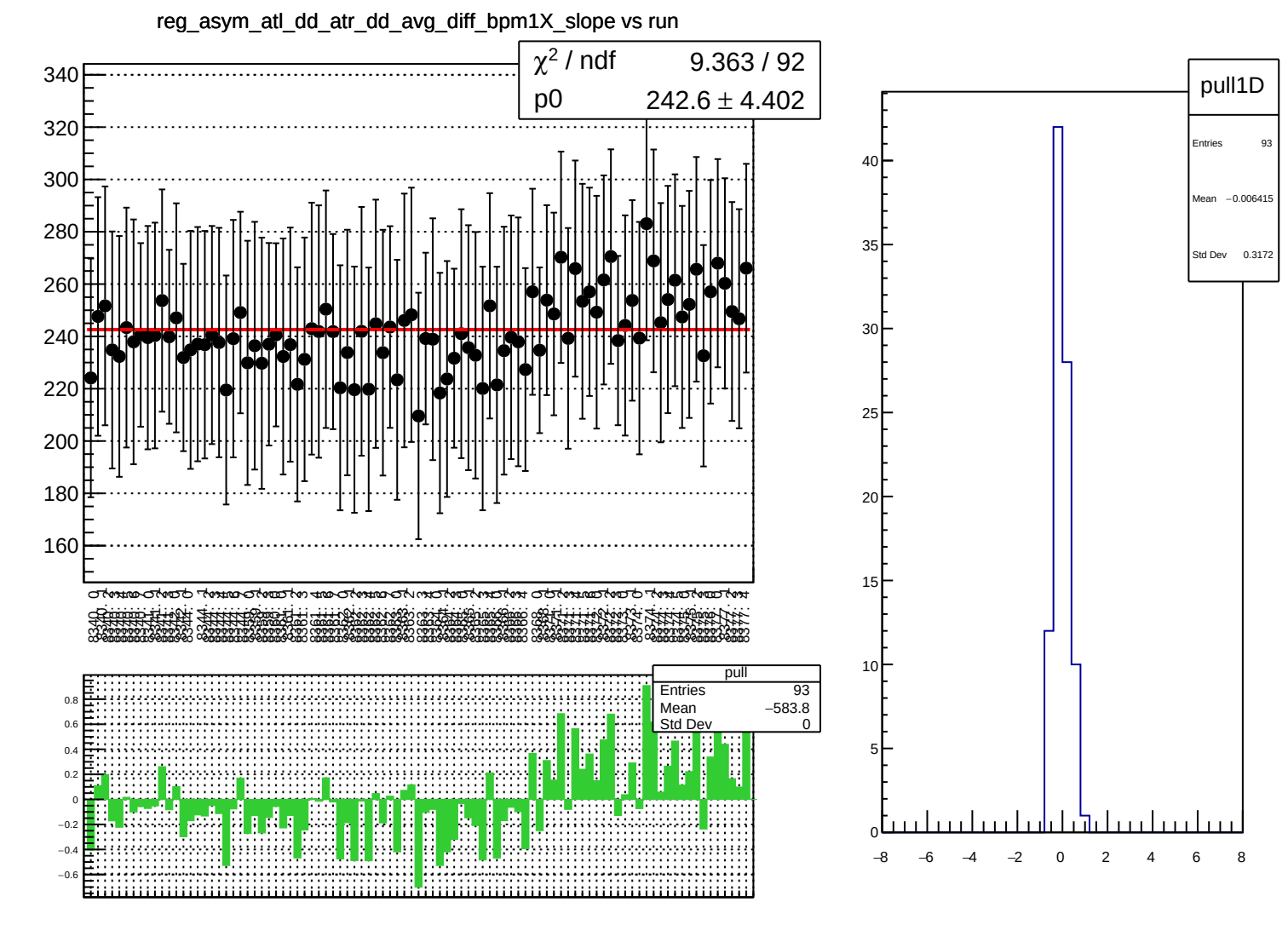

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.47 / 92
p0 −158.9 ± 3.957
pull
Entries 93
Mean −75.82
Std Dev 0

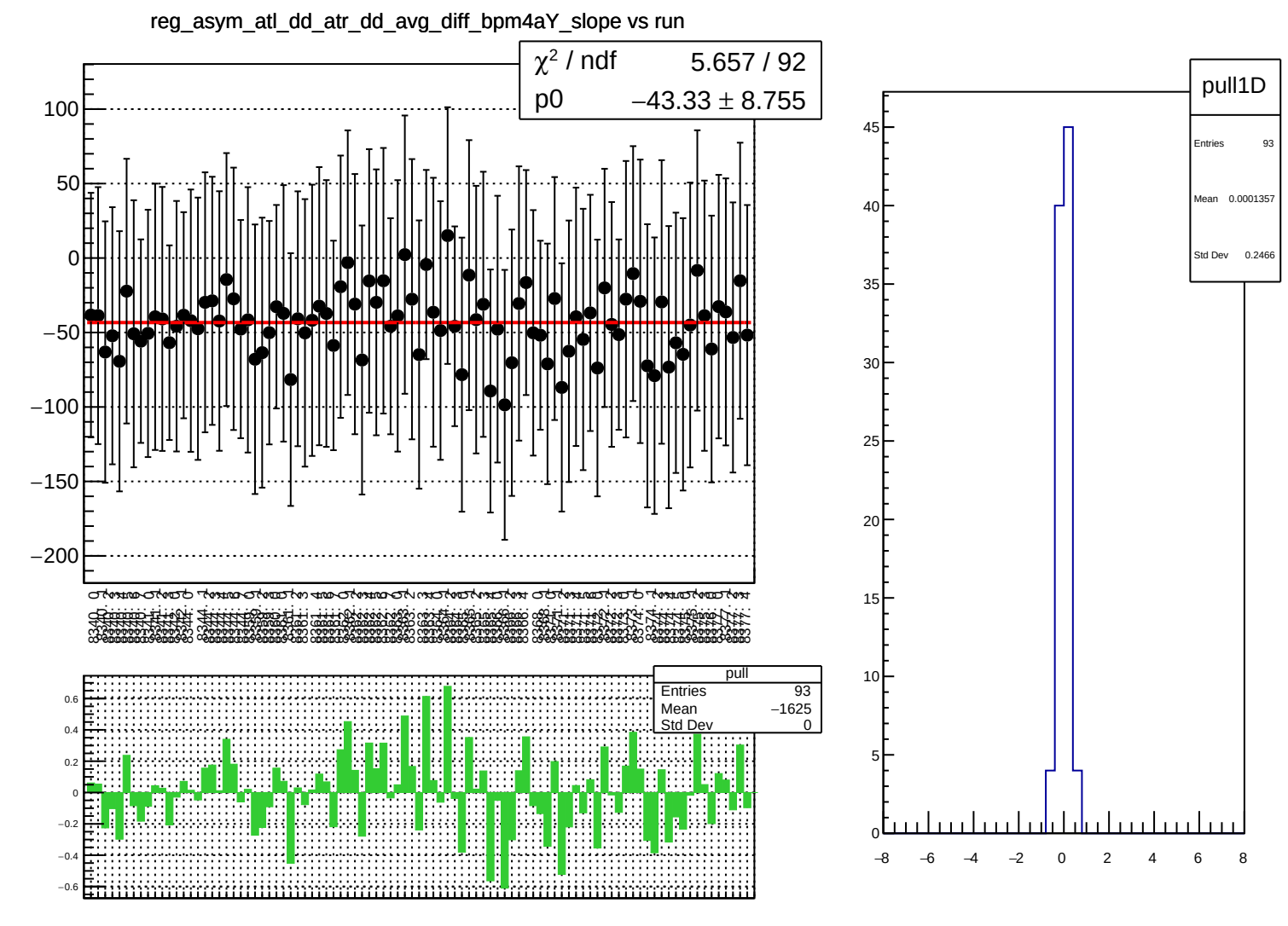

pull1D
Entries 93
Mean 0.009515
Std Dev 0.4574

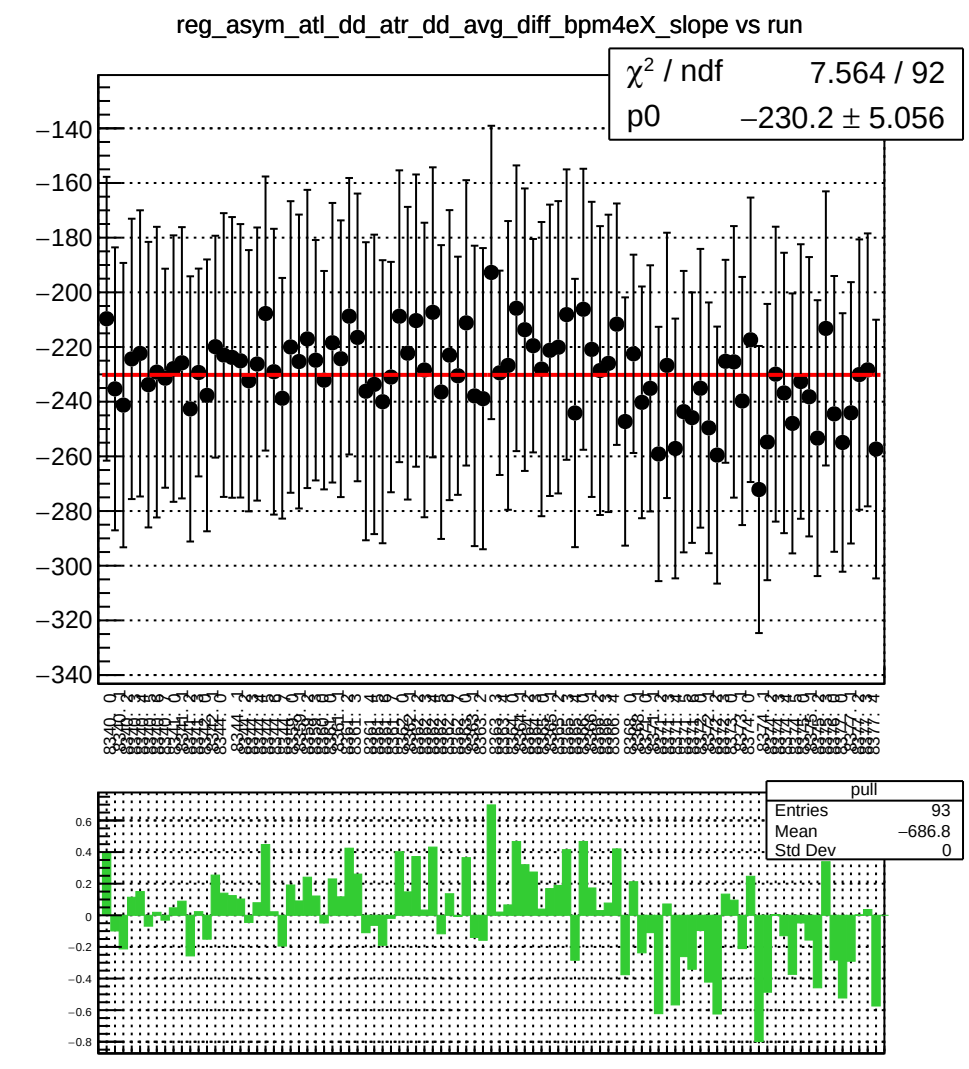

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.86 / 92
p0 −19.66 ± 7.079
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −84.78
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.001273
Std Dev 0.4383
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

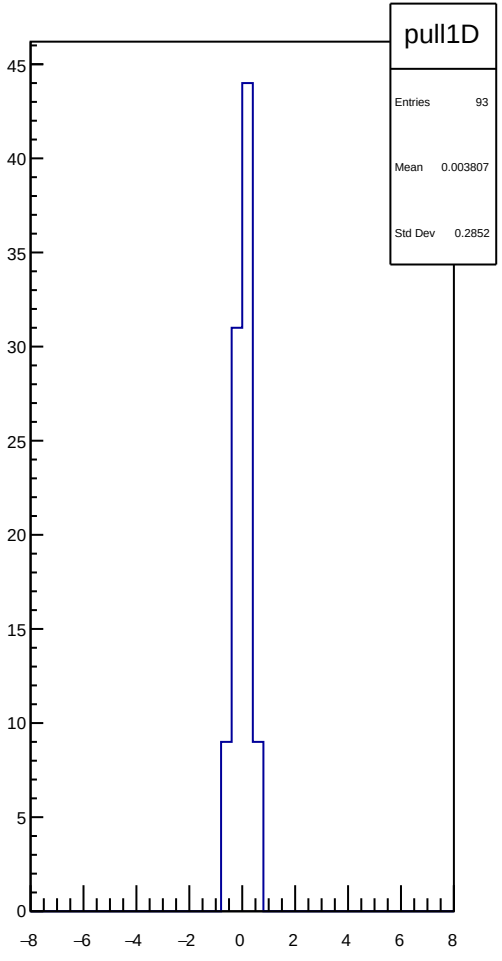

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.2 / 92
p0 103.7 ± 0.4248
pull
Entries 93
Mean 3169
Std Dev 0

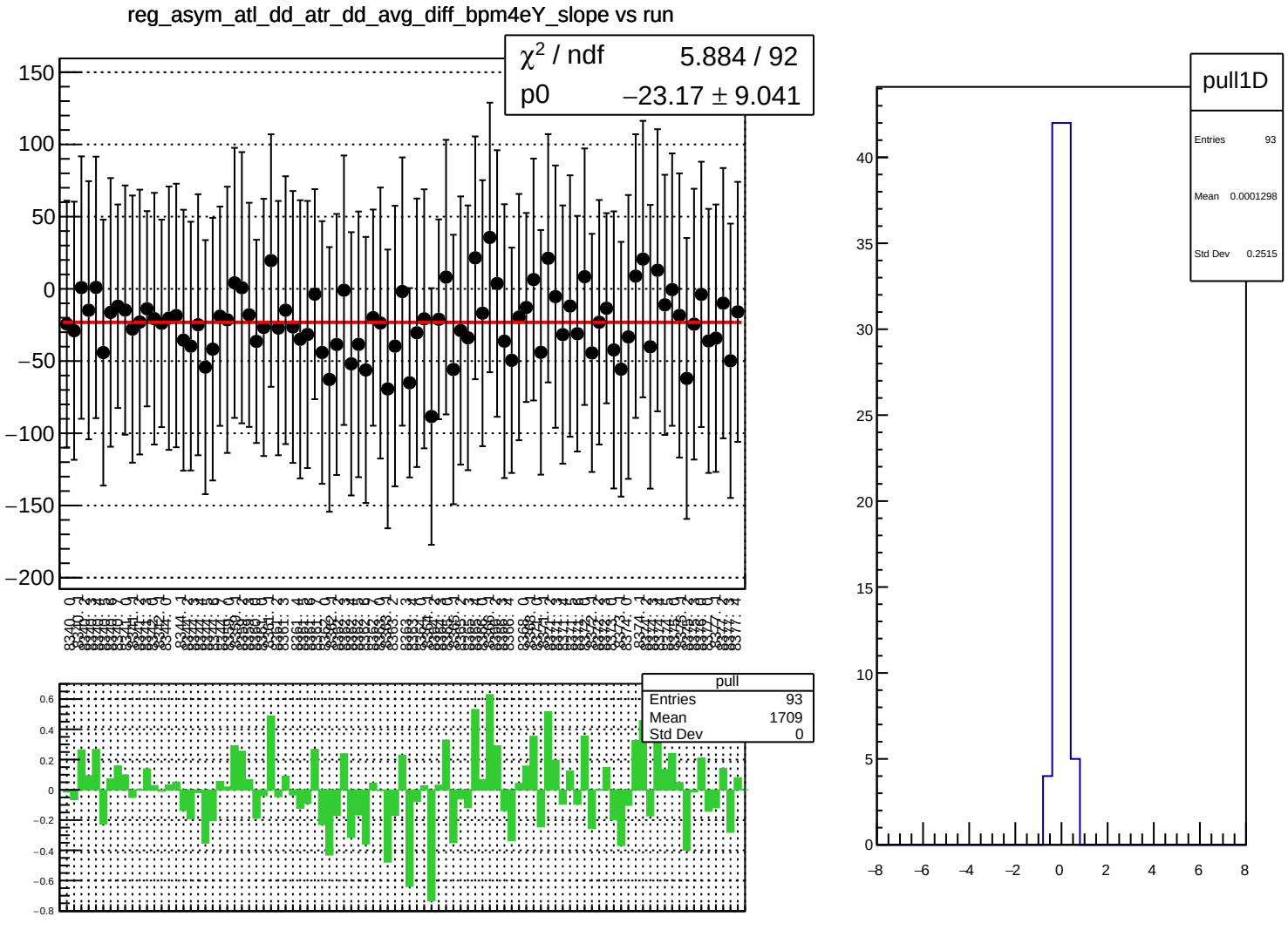

pull1D
Entries 93
Mean −0.0008753
Std Dev 0.4885

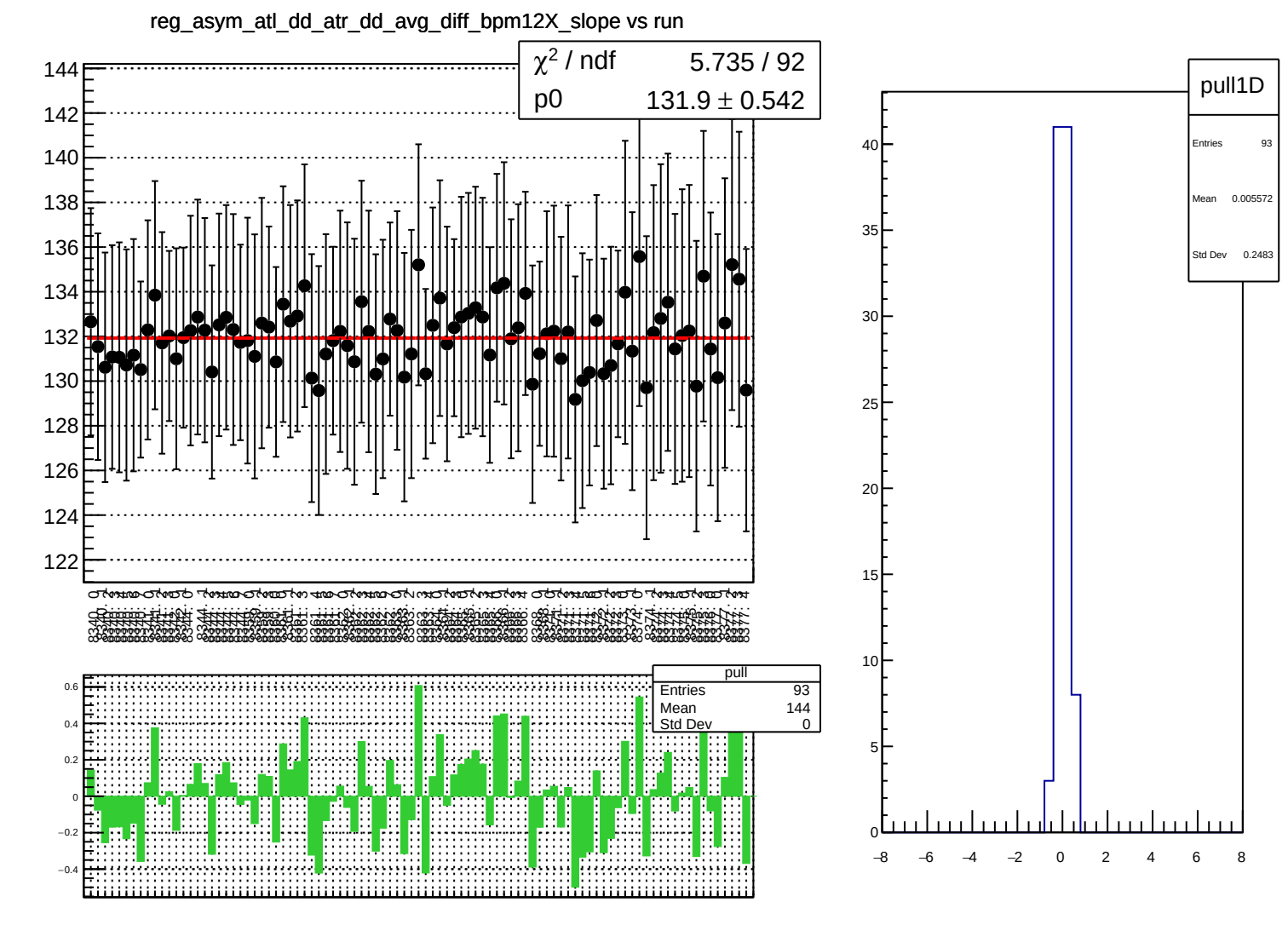

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 9.363 / 92
p0 242.6 ± 4.402
340
320
300
280
260
240
220
200
180
160
pull
Entries 93
Mean −583.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.006415
Std Dev 0.3172
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

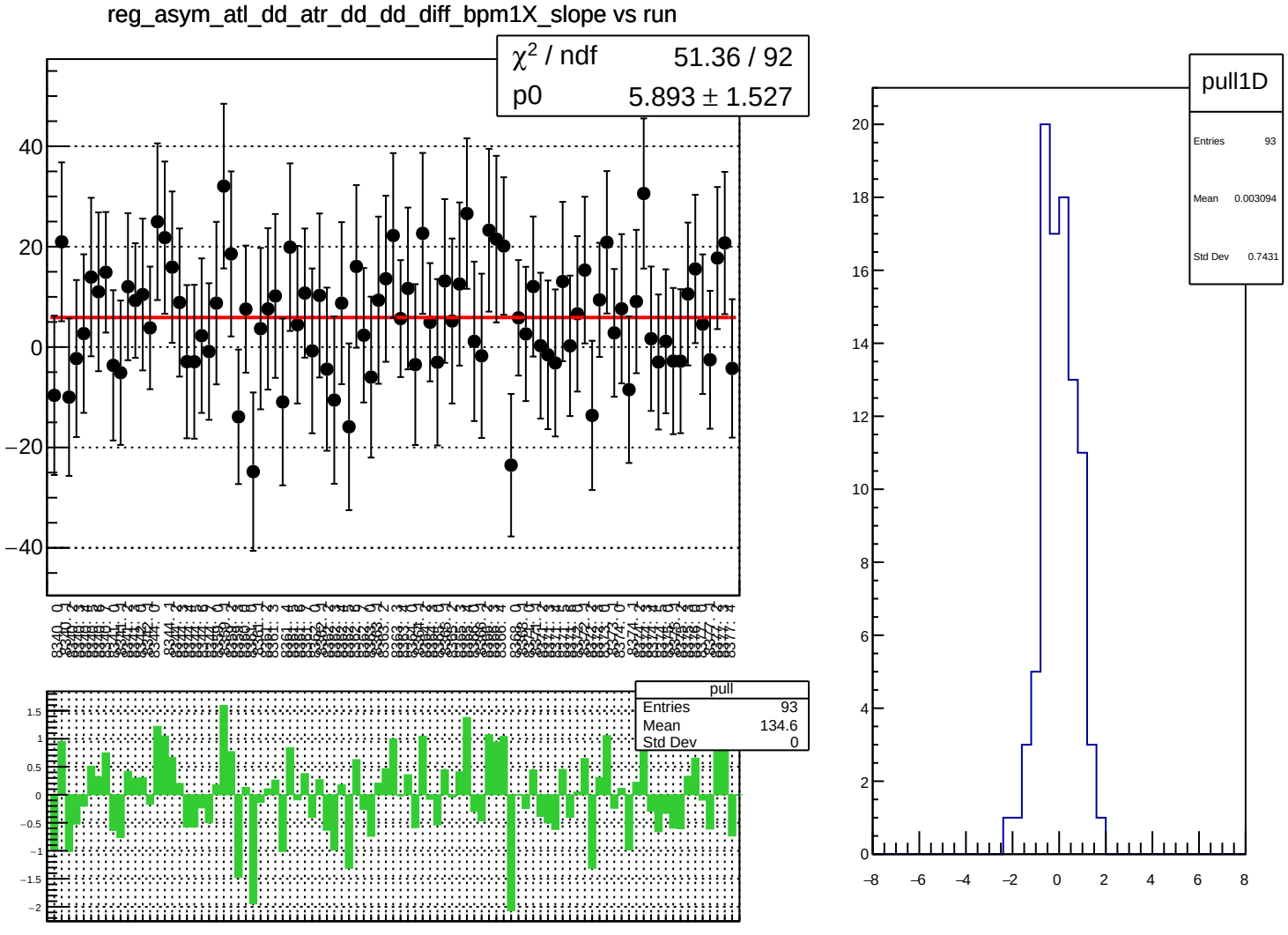

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.657 / 92
p0 −43.33 ± 8.755
pull
Entries 93
Mean −1625
Std Dev 0
pull1D
Entries 93
Mean 0.0001357
Std Dev 0.2466

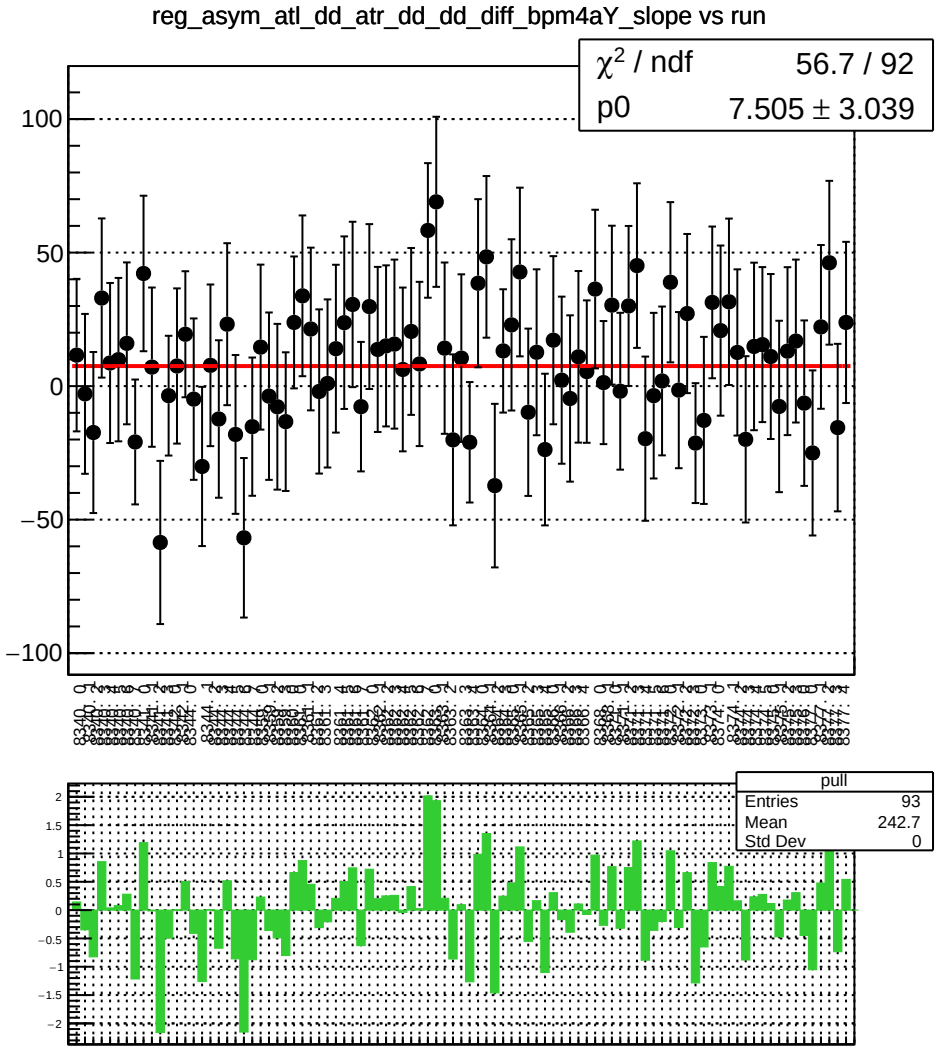

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.564 / 92
p0 −230.2 ± 5.056
pull
Entries 93
Mean −686.8
Std Dev 0

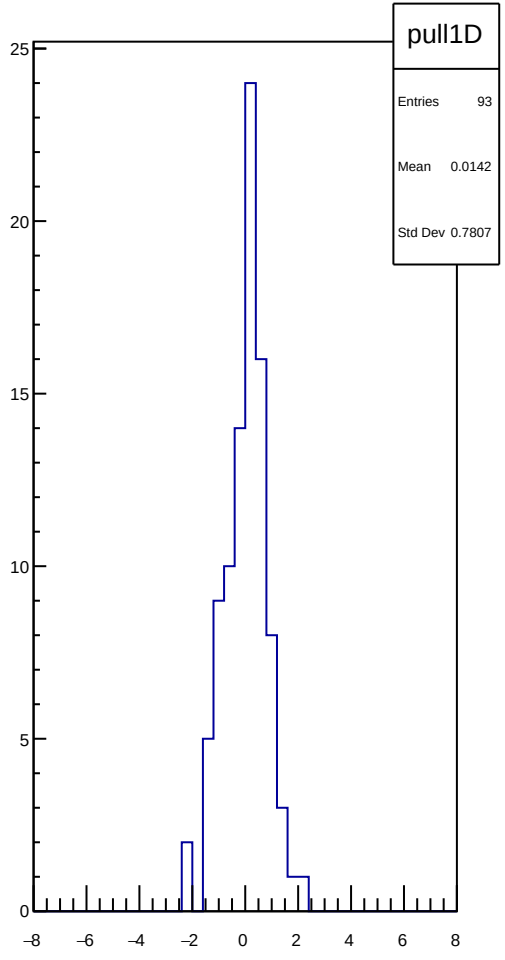

pull1D
Entries 93
Mean 0.003807
Std Dev 0.2852

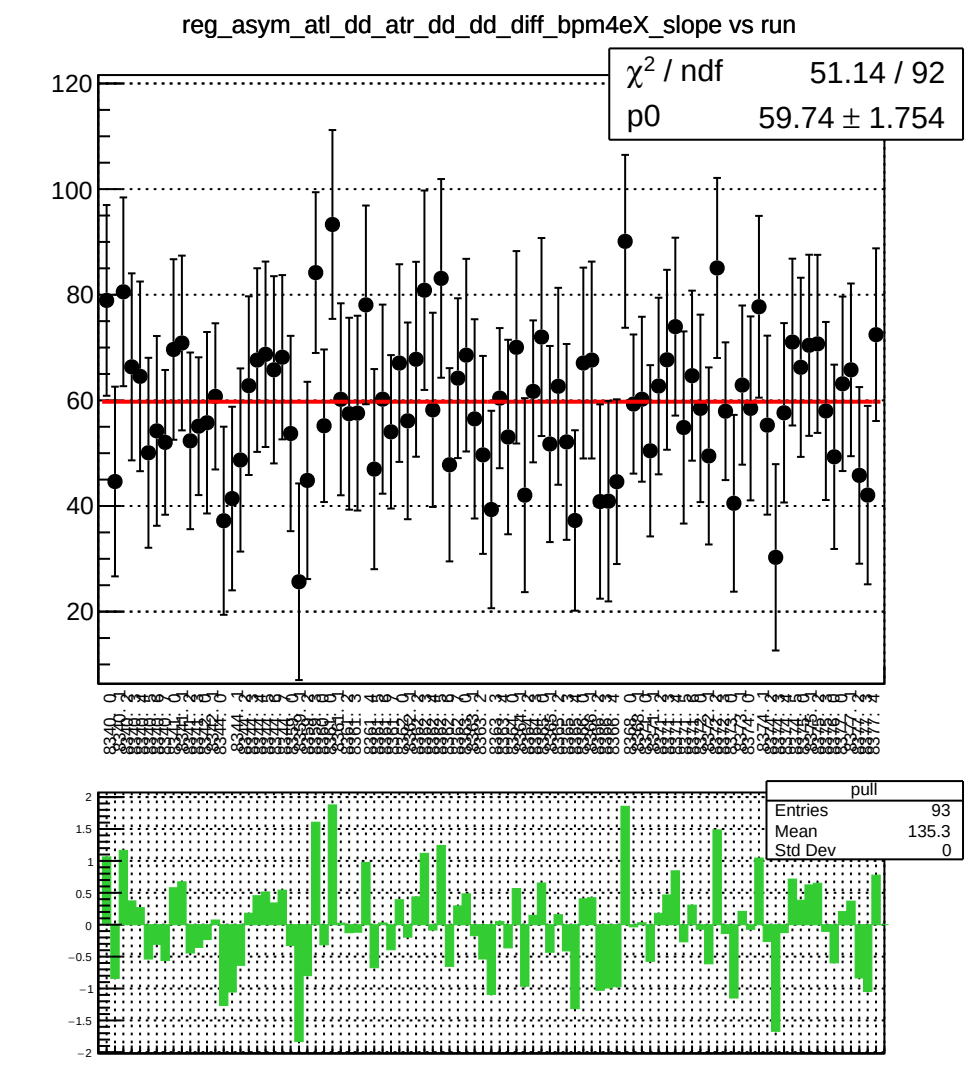

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.884 / 92
p0 −23.17 ± 9.041
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 1709
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.0001298
Std Dev 0.2515
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

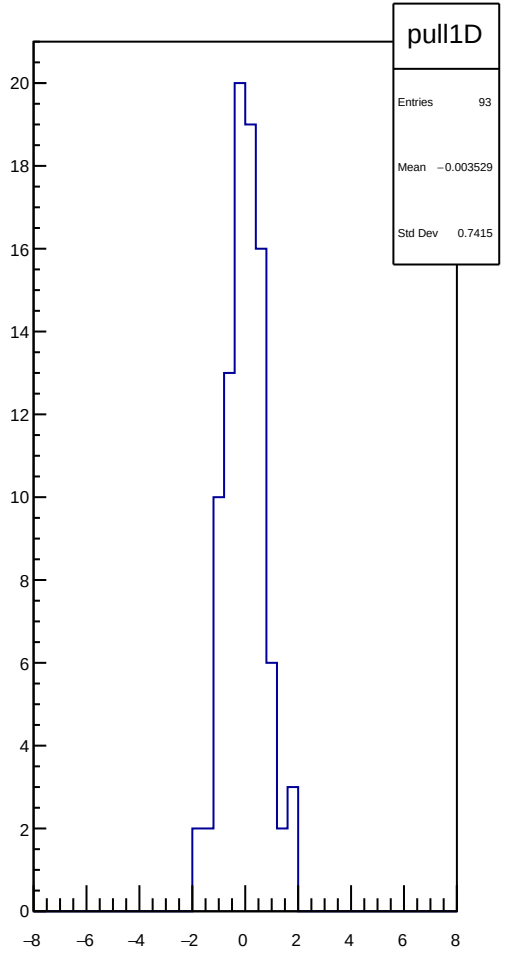

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.735 / 92
p0 131.9 ± 0.542
144
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 93
Mean 144
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.005572
Std Dev 0.2483
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

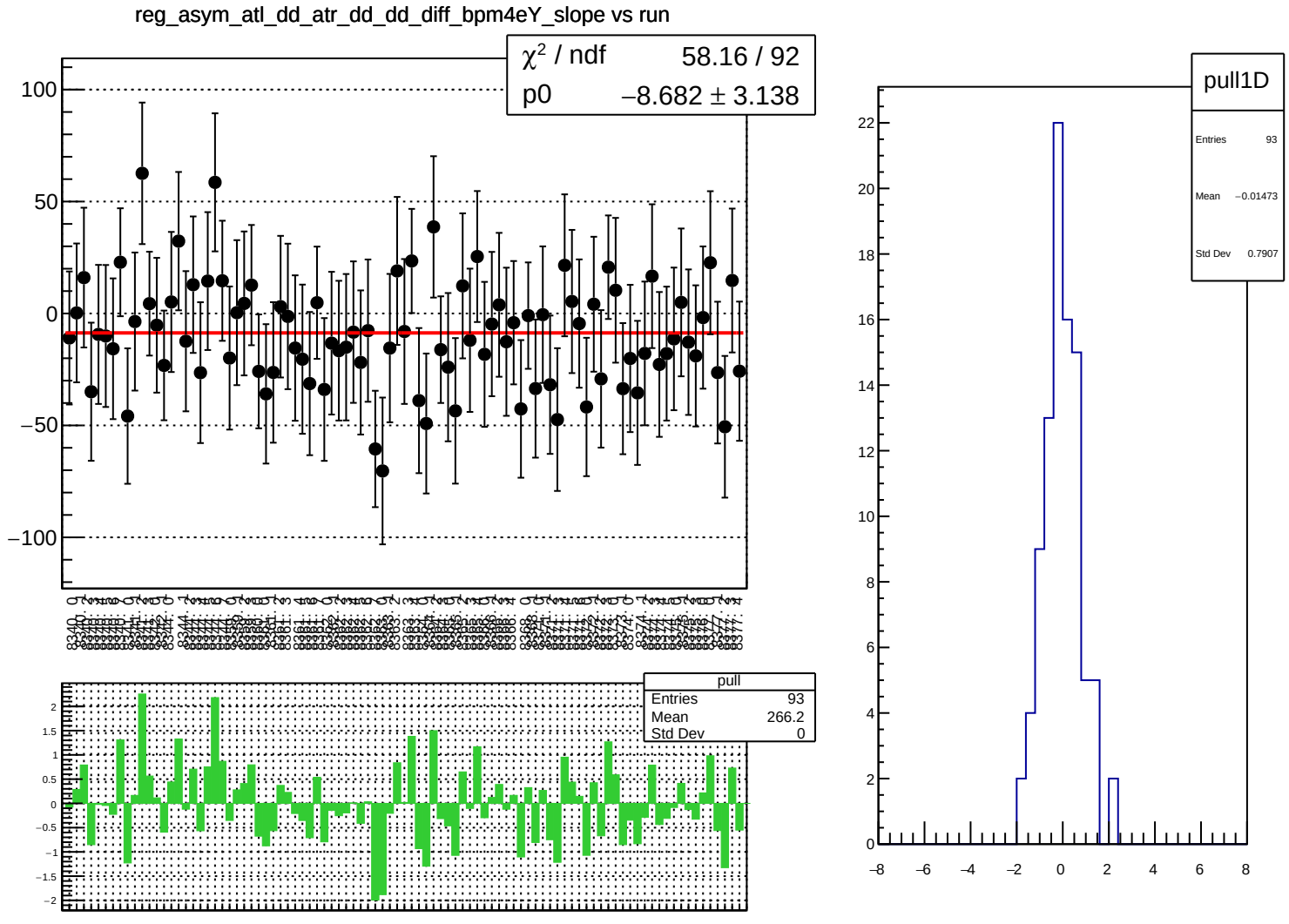

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 51.36 / 92
p0 5.893 ± 1.527
pull
Entries 93
Mean 134.6
Std Dev 0
pull1D
Entries 93
Mean 0.003094
Std Dev 0.7431

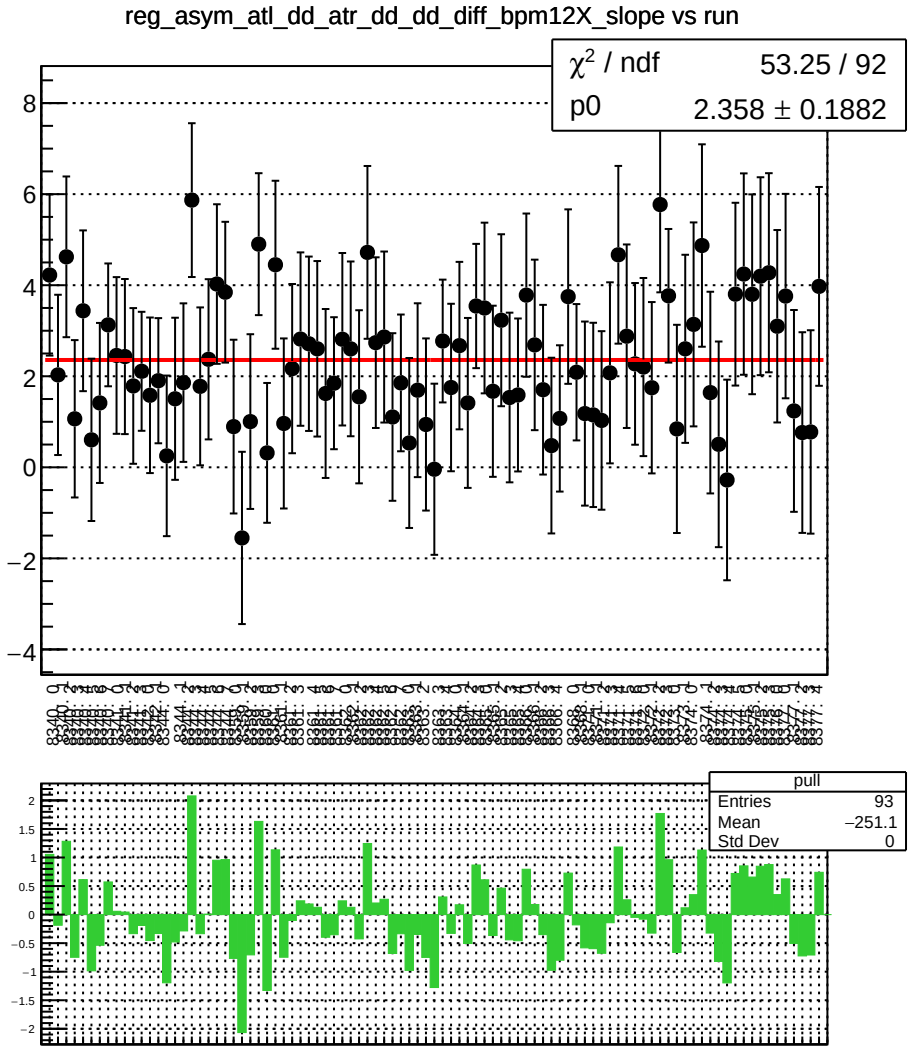

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.7 / 92
p0 7.505 ± 3.039
100
50
0
−50
−100
pull
Entries 93
Mean 242.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

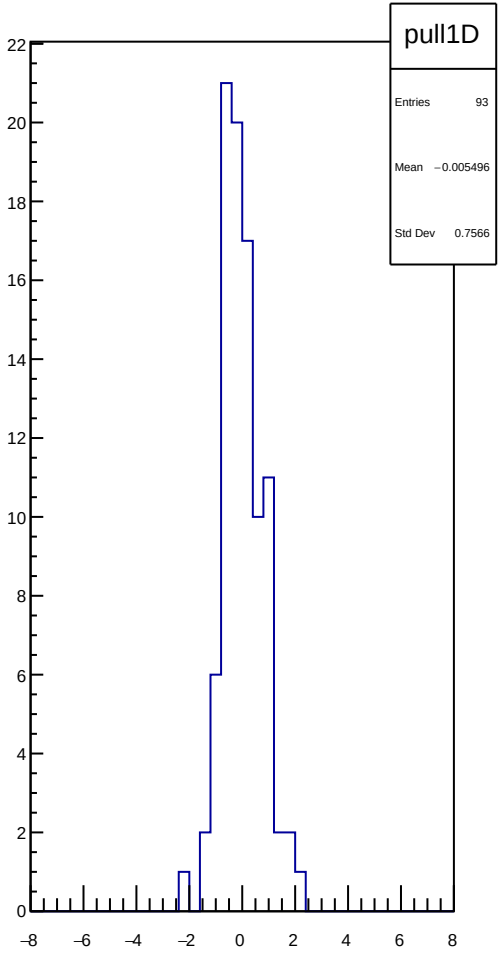

pull1D
Entries 93
Mean 0.0142
Std Dev 0.7807
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

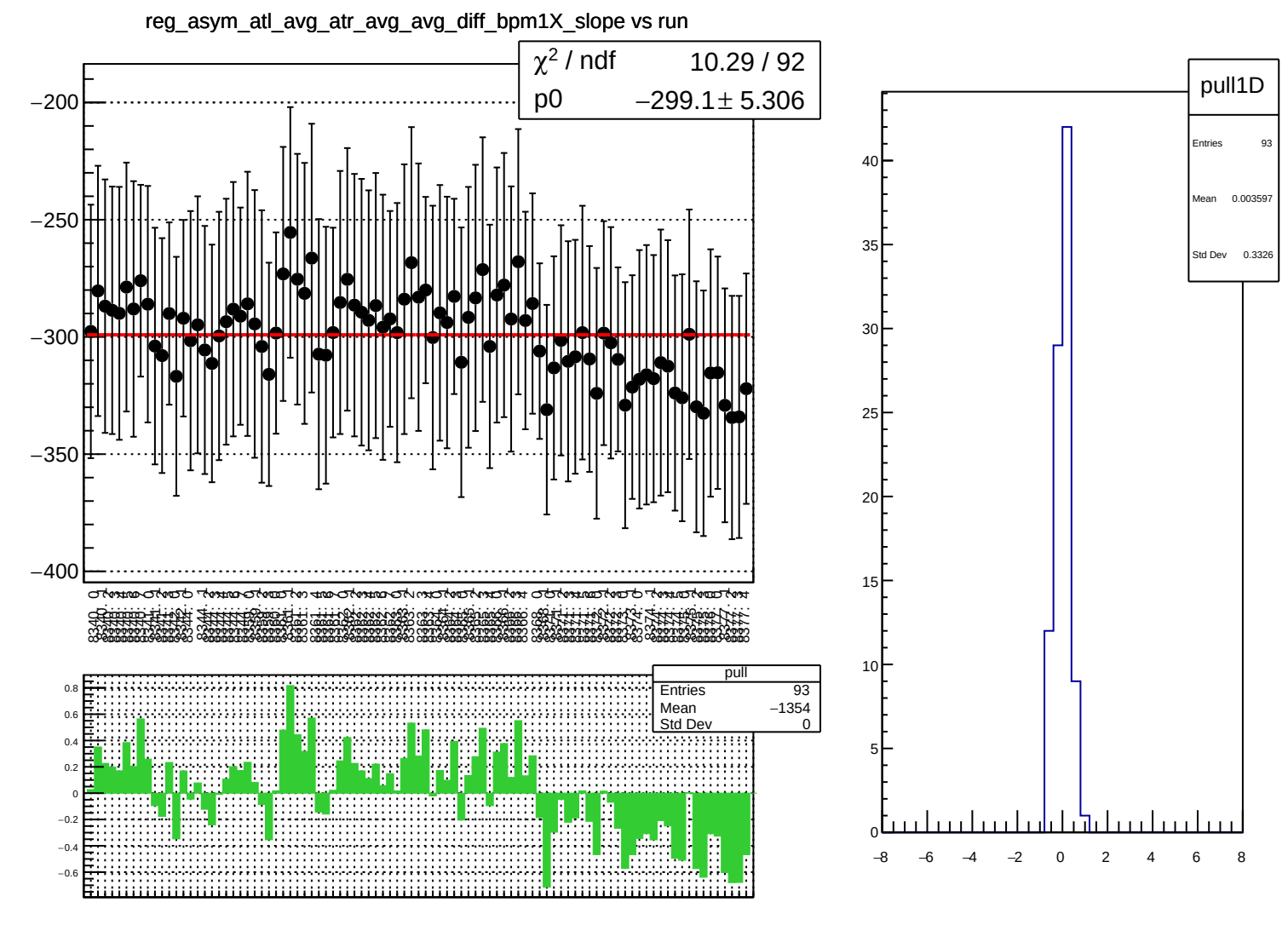

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.14 / 92
p0 59.74 ± 1.754
120
100
80
60
40
20
pull
Entries 93
Mean 135.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

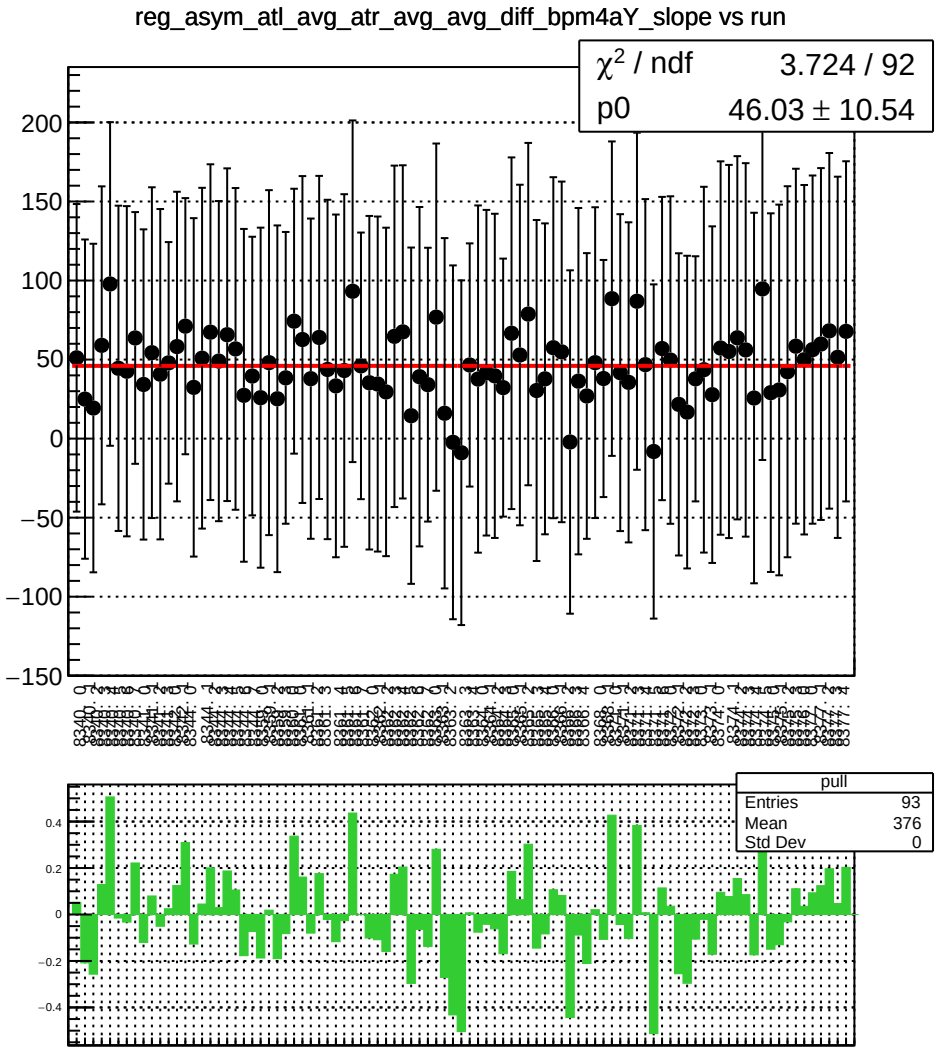

pull1D
Entries 93
Mean −0.003529
Std Dev 0.7415
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

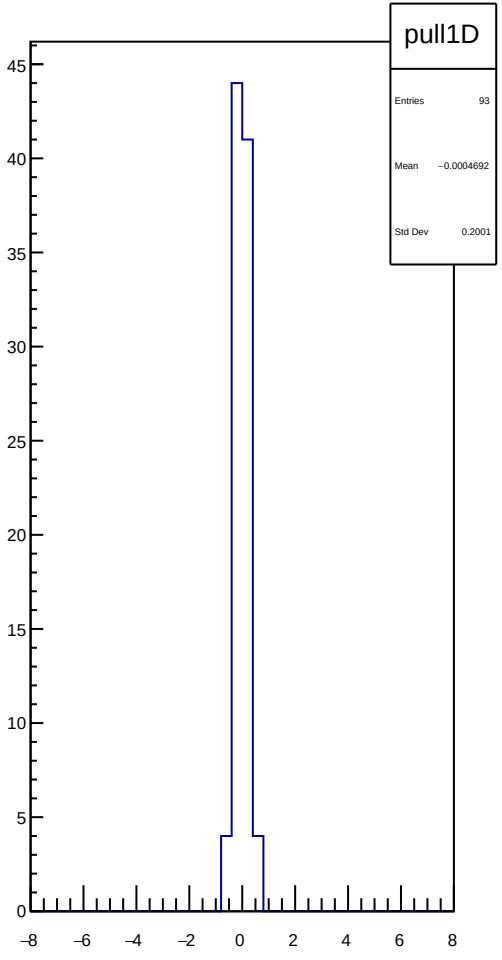

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 58.16 / 92
p0 −8.682 ± 3.138
pull
Entries 93
Mean 266.2
Std Dev 0
pull1D
Entries 93
Mean −0.01473
Std Dev 0.7907

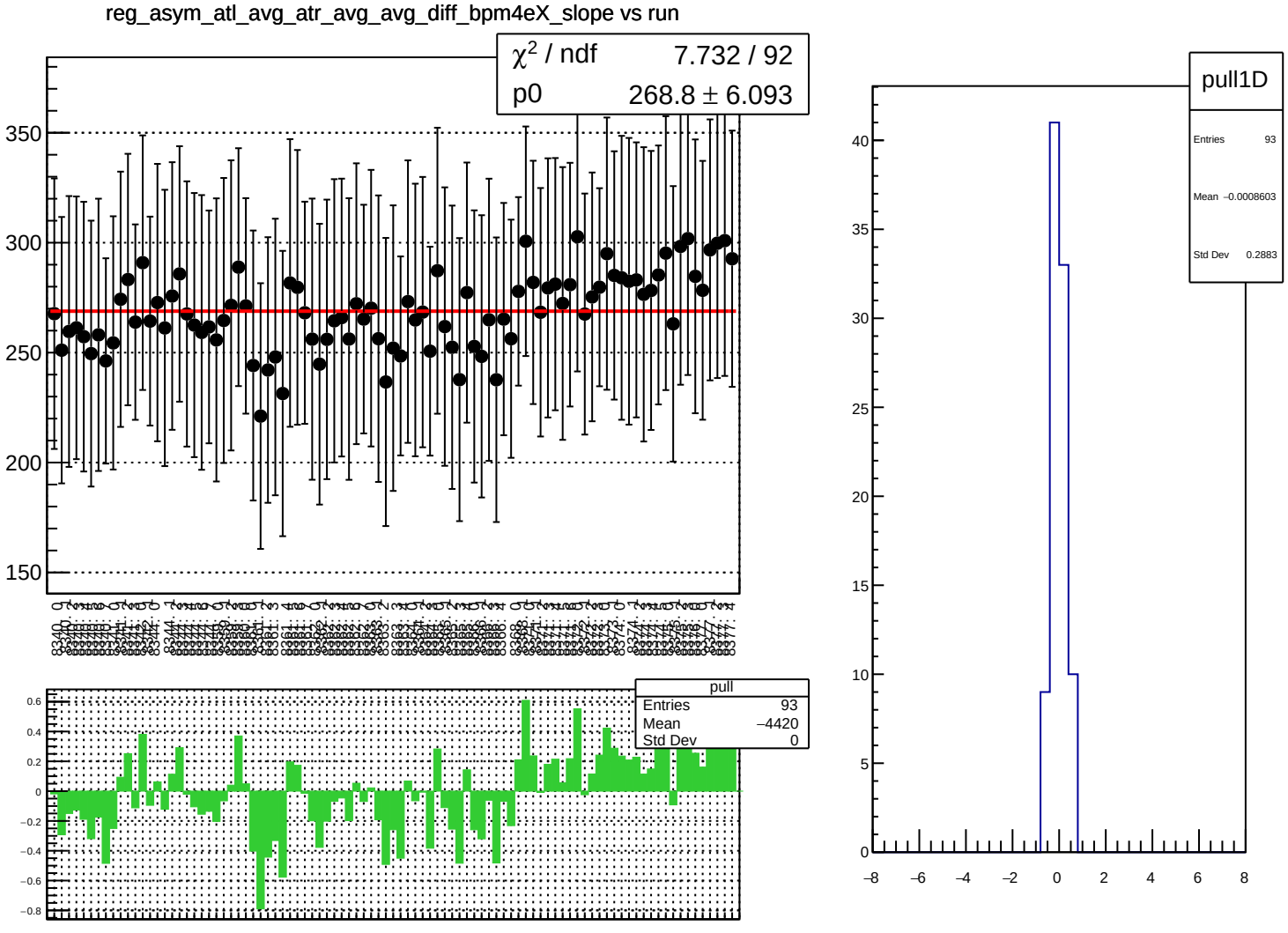

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 53.25 / 92
p0 2.358 ± 0.1882
pull
Entries 93
Mean −251.1
Std Dev 0

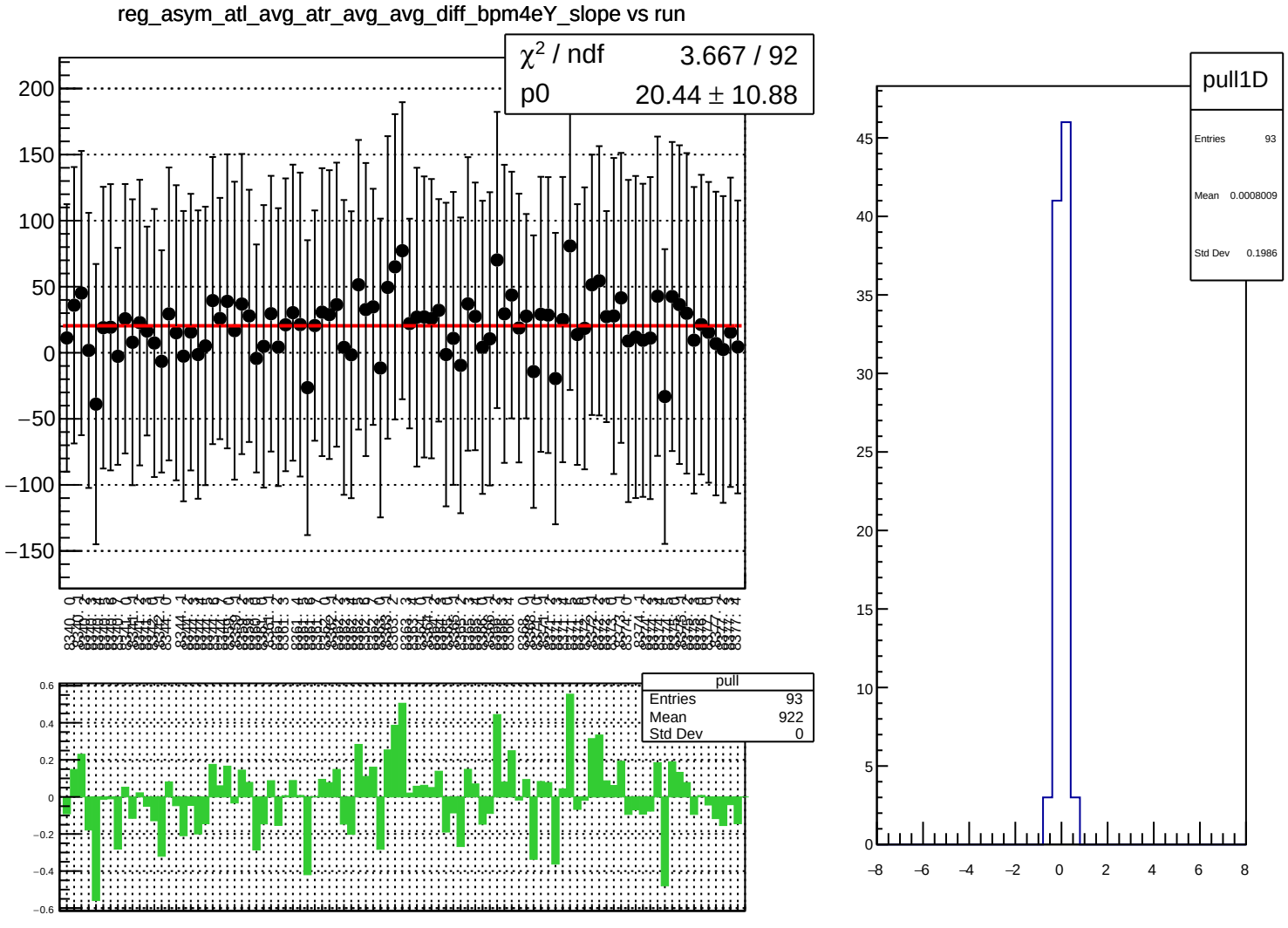

pull1D
Entries 93
Mean −0.005496
Std Dev 0.7566

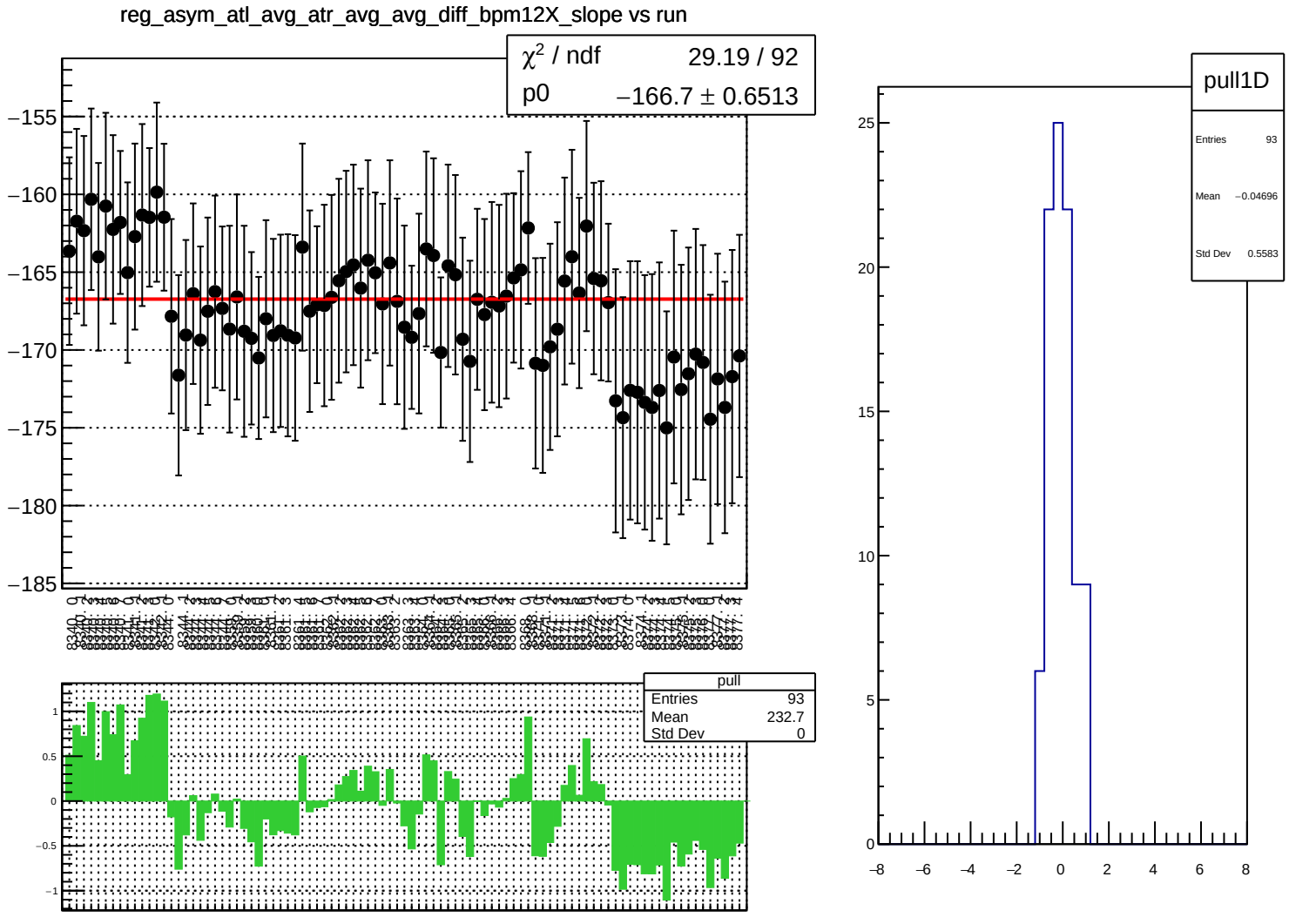

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.29 / 92
p0 −299.1 ± 5.306
−200
−250
−300
−350
−400
pull
Entries 93
Mean −1354
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.003597
Std Dev 0.3326
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

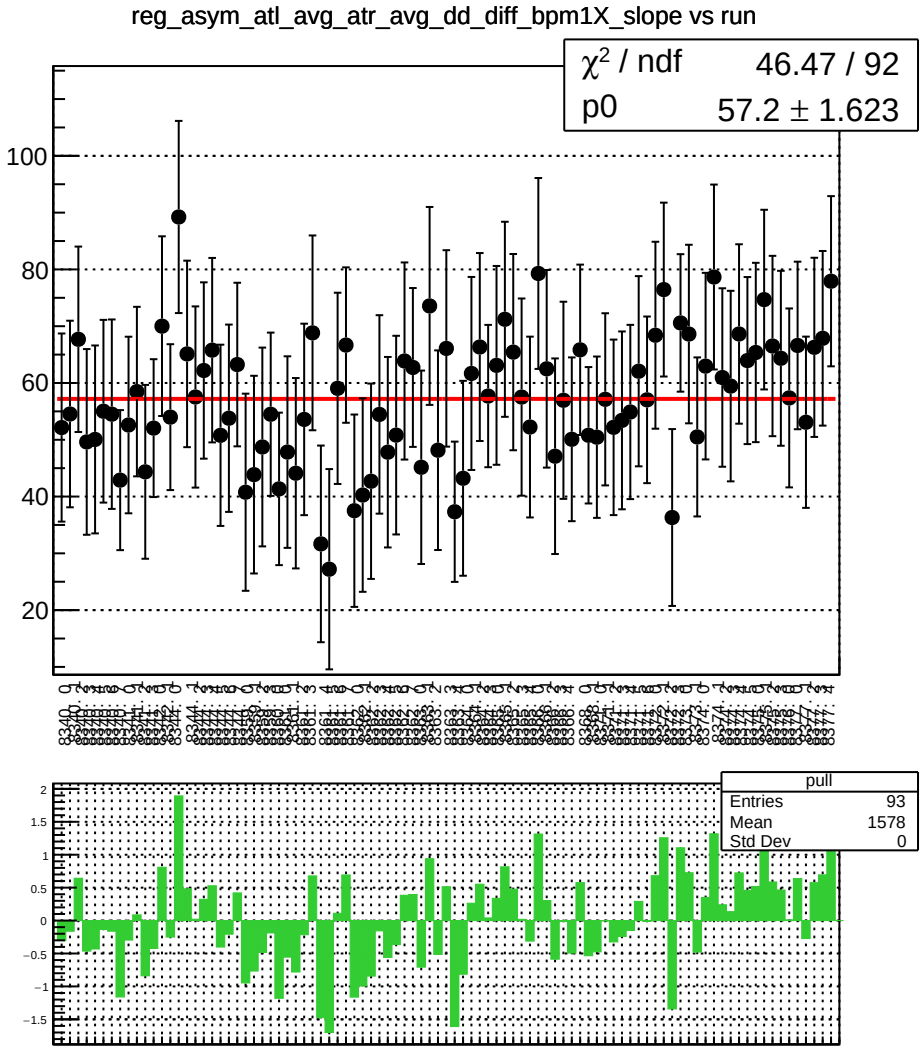

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.724 / 92
p0 46.03 ± 10.54
pull
Entries 93
Mean 376
Std Dev 0

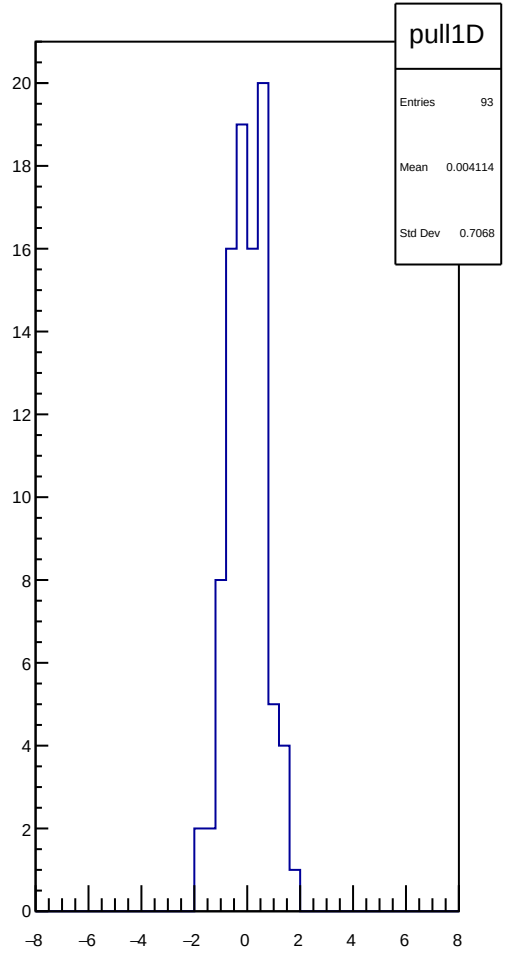

pull1D
Entries 93
Mean −0.0004692
Std Dev 0.2001

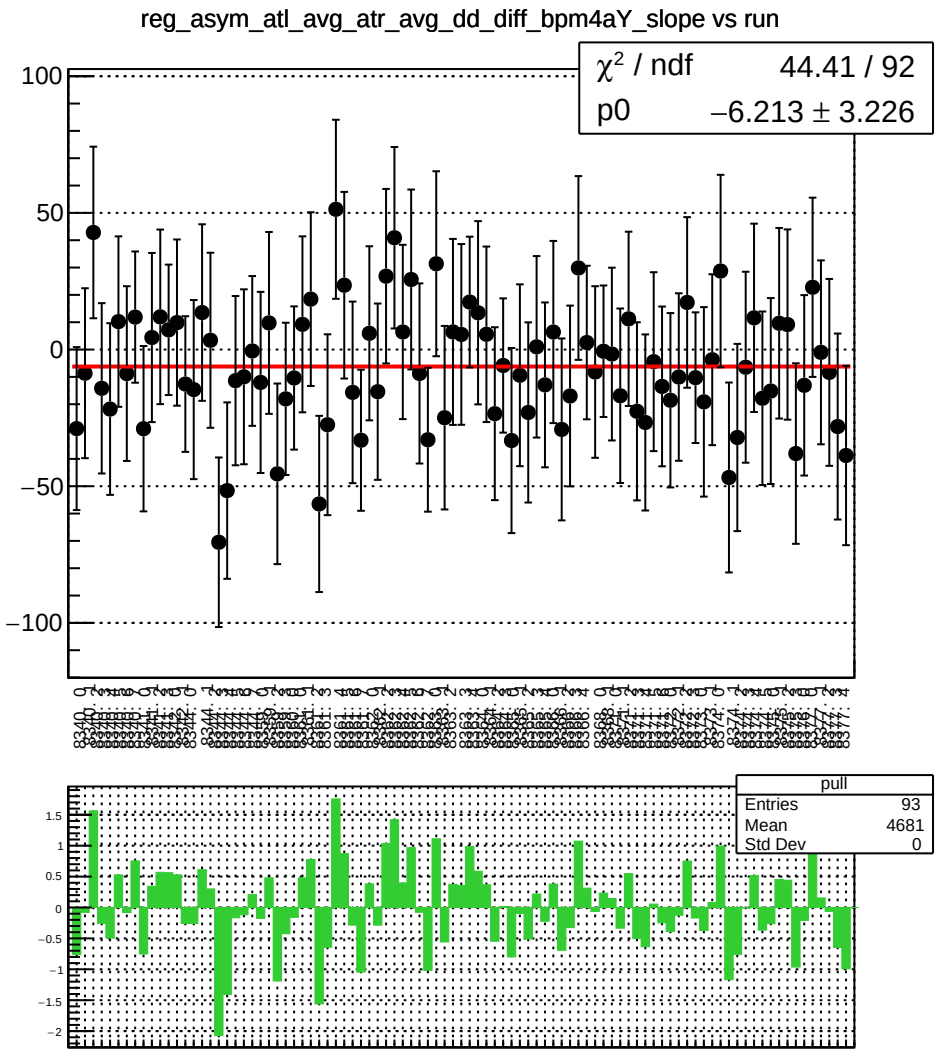

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.732 / 92
p0 268.8 ± 6.093
350
300
250
200
150
pull
Entries 93
Mean −4420
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean −0.0008603
Std Dev 0.2883
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

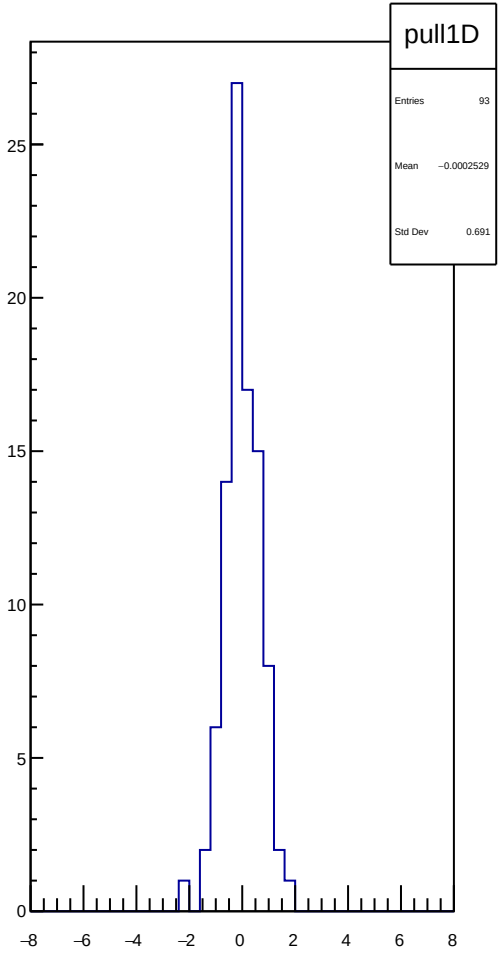

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.667 / 92
p0 20.44 ± 10.88
pull
Entries 93
Mean 922
Std Dev 0
pull1D
Entries 93
Mean 0.0008009
Std Dev 0.1986

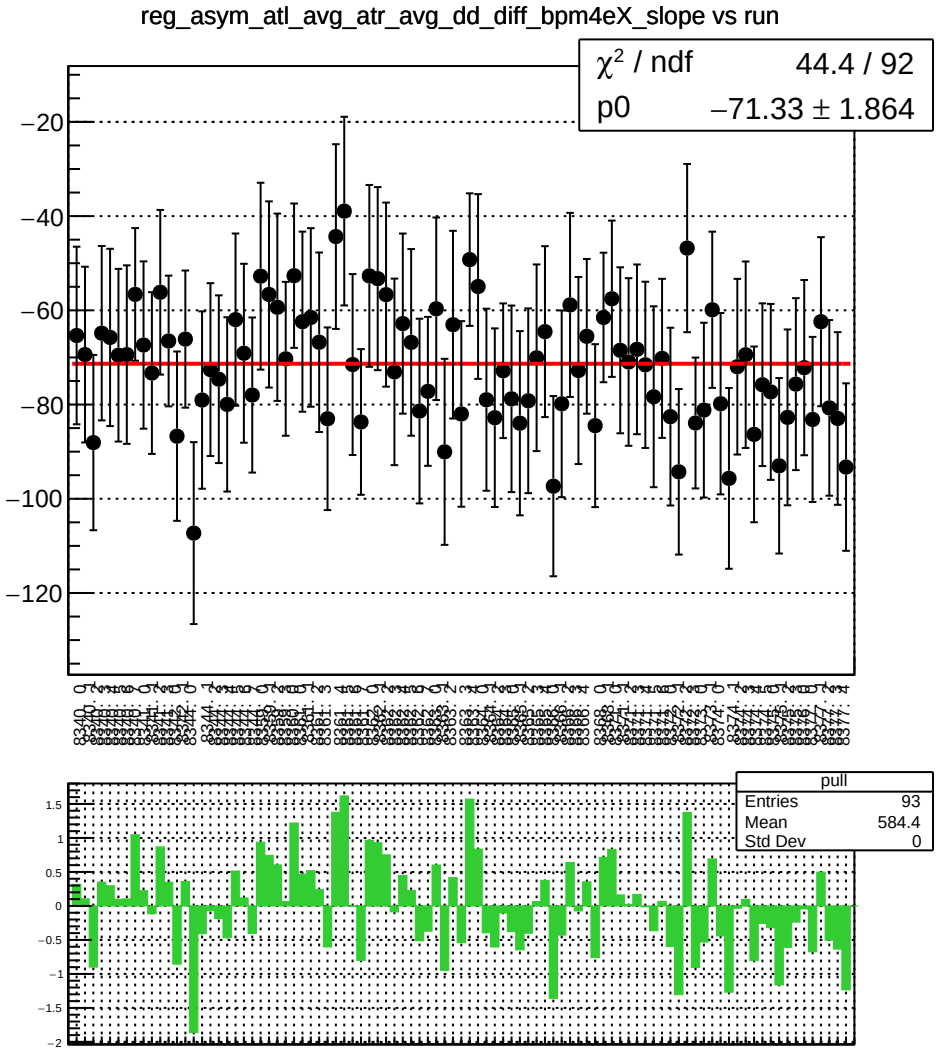

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 29.19 / 92
p0 −166.7 ± 0.6513
pull
Entries 93
Mean 232.7
Std Dev 0
pull1D
Entries 93
Mean −0.04696
Std Dev 0.5583

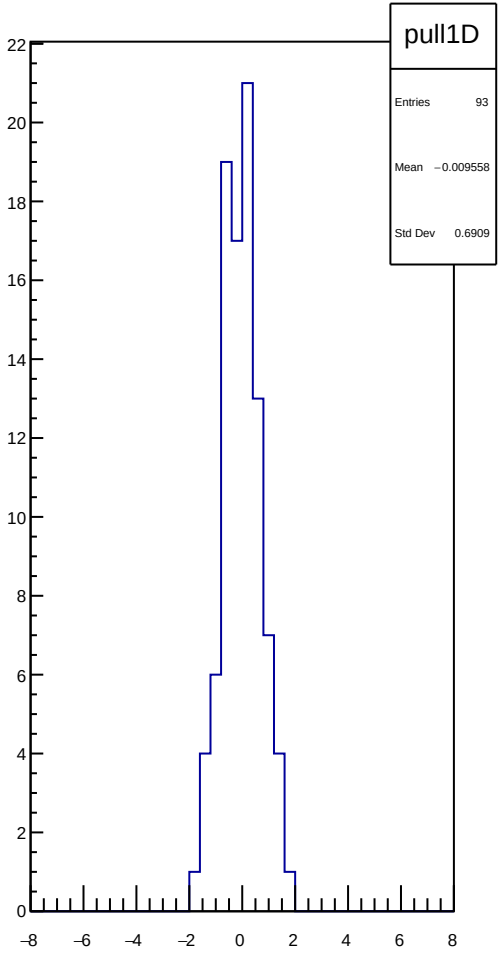

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 46.47 / 92
p0 57.2 ± 1.623
pull
Entries 93
Mean 1578
Std Dev 0

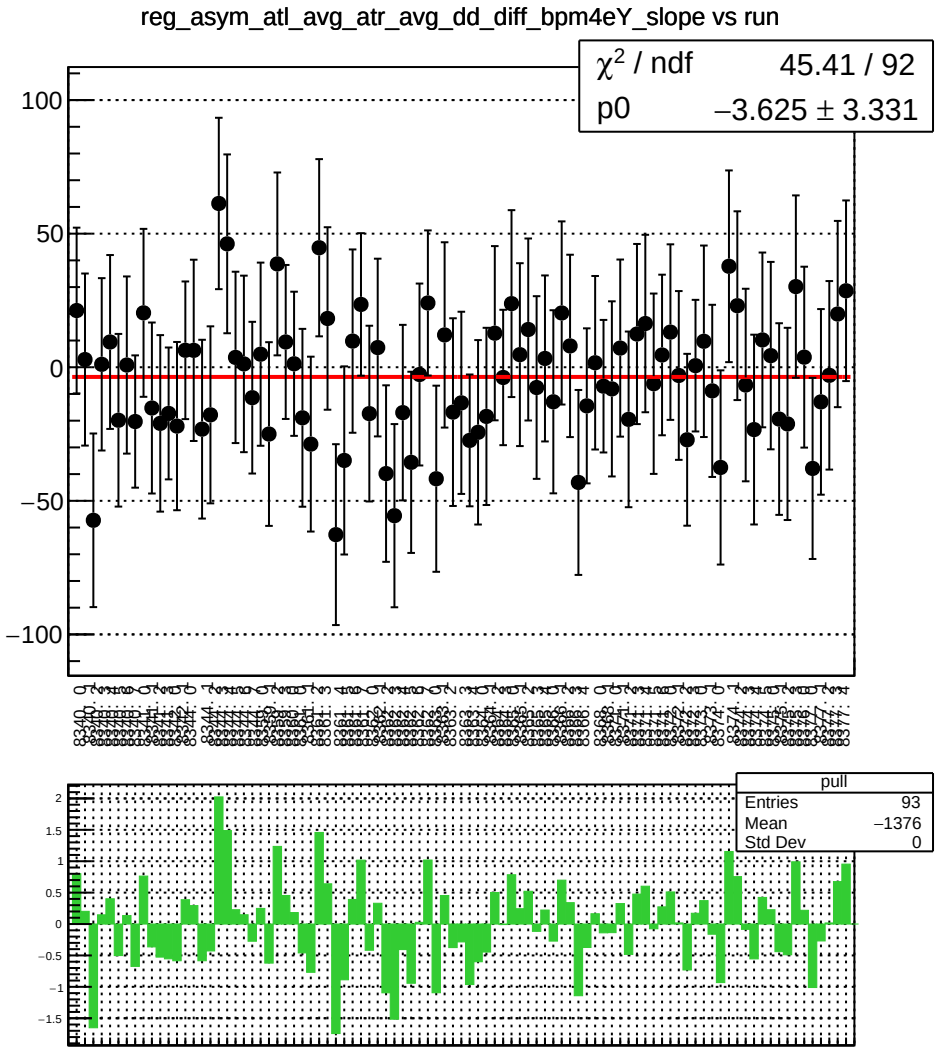

pull1D
Entries 93
Mean 0.004114
Std Dev 0.7068

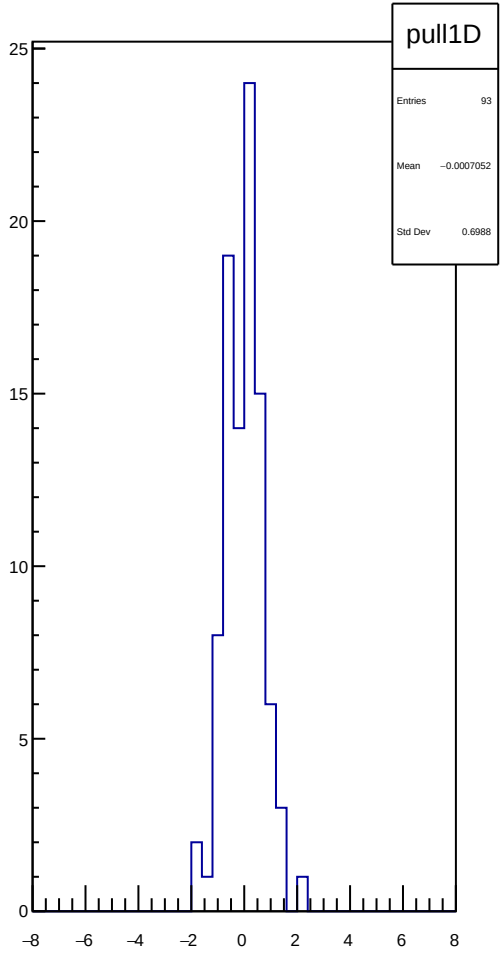

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.41 / 92
p0 −6.213 ± 3.226
pull
Entries 93
Mean 4681
Std Dev 0

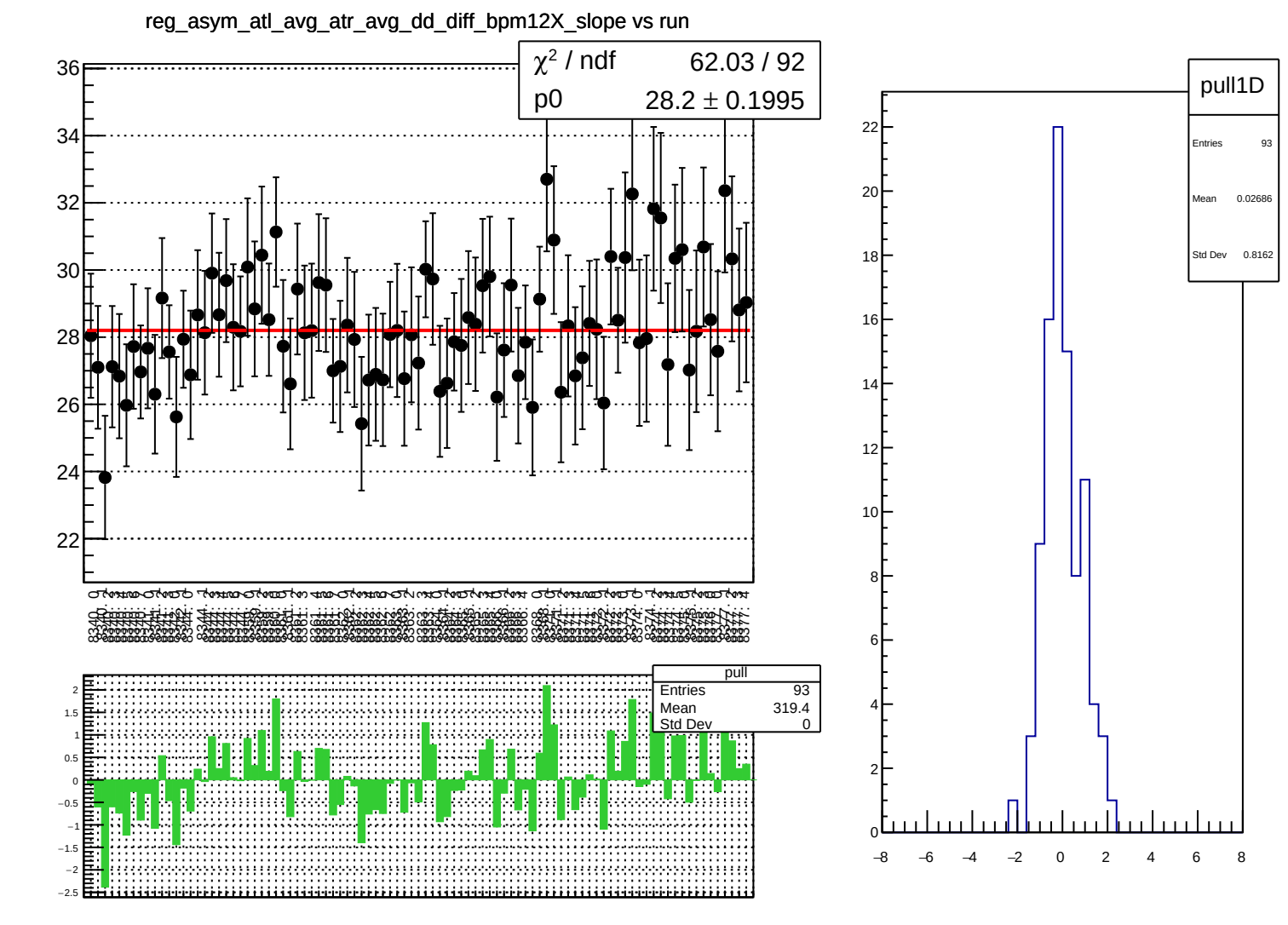

pull1D
Entries 93
Mean −0.0002529
Std Dev 0.691

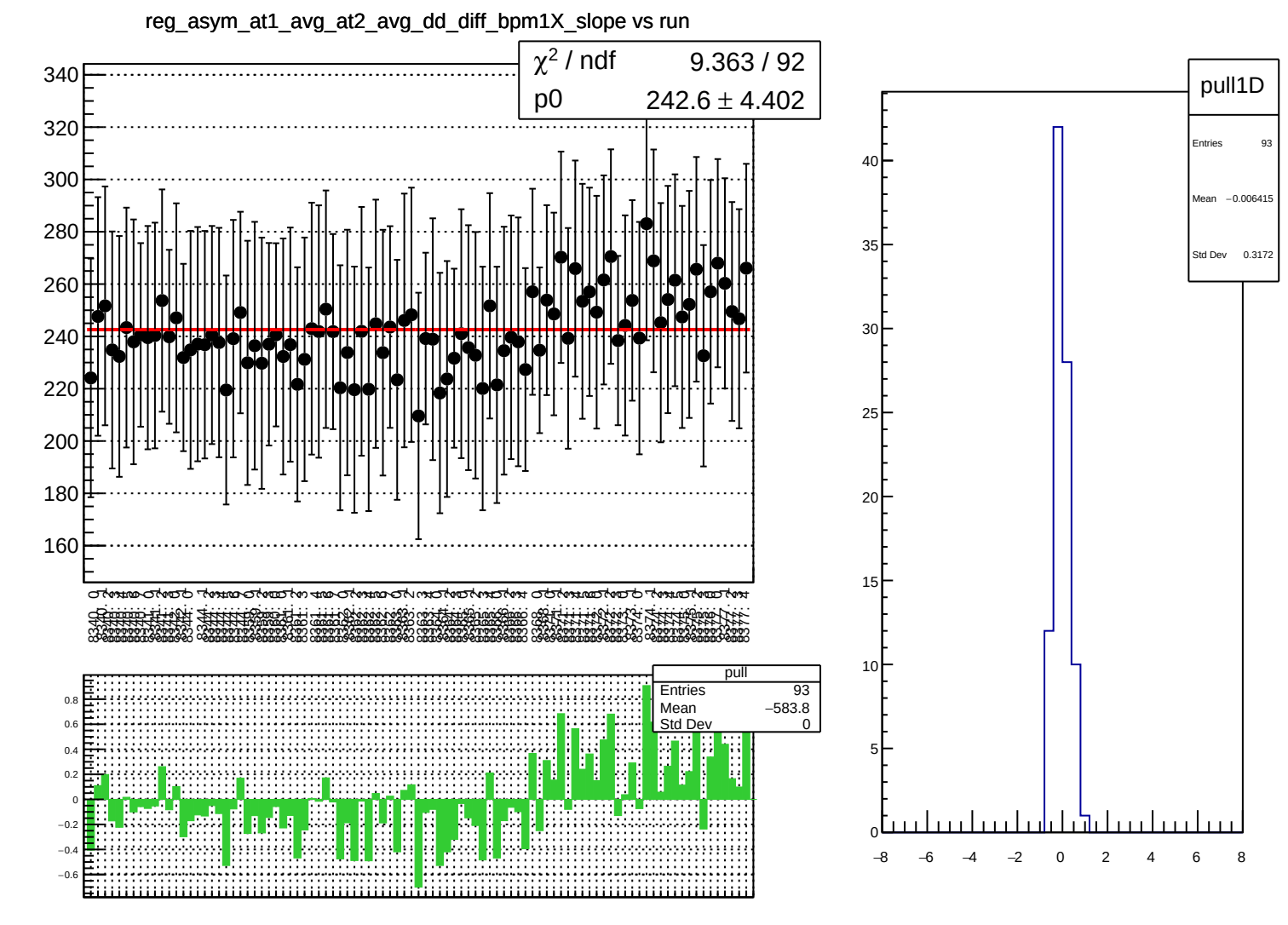

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 44.4 / 92
p0 −71.33 ± 1.864
pull
Entries 93
Mean 584.4
Std Dev 0

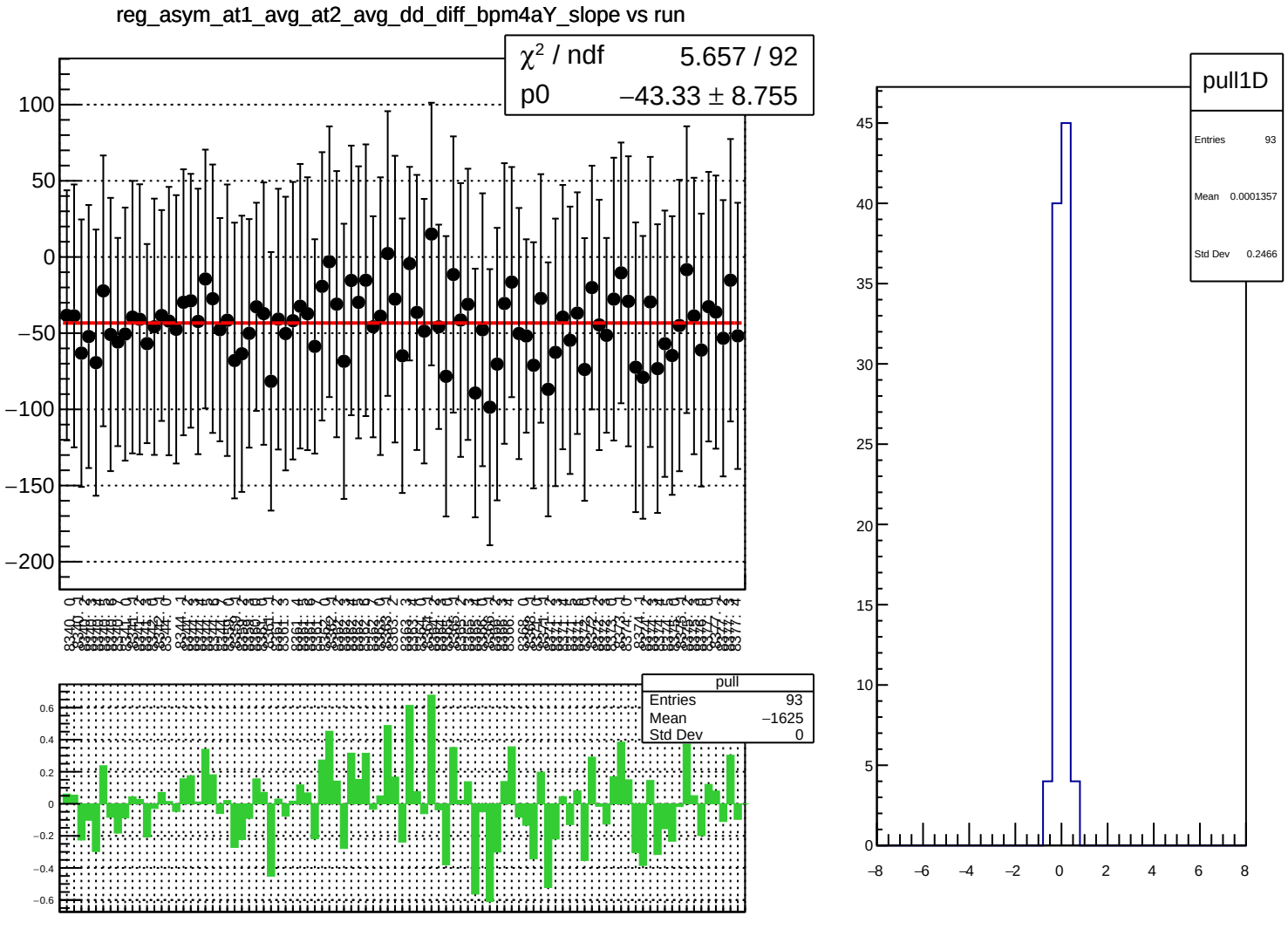

pull1D
Entries 93
Mean −0.009558
Std Dev 0.6909

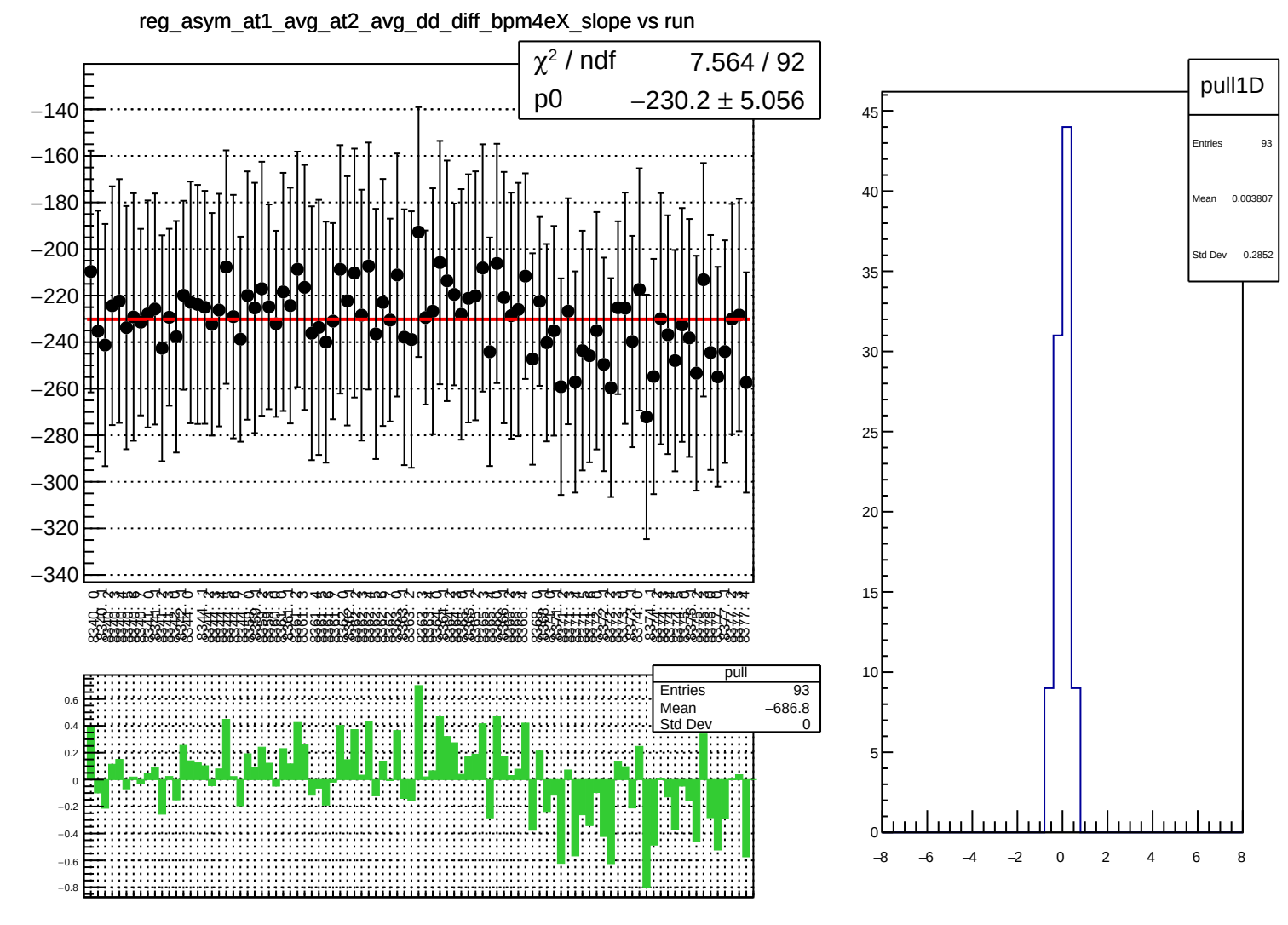

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.41 / 92
p0 −3.625 ± 3.331
100
50
0
−50
−100
pull
Entries 93
Mean −1376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

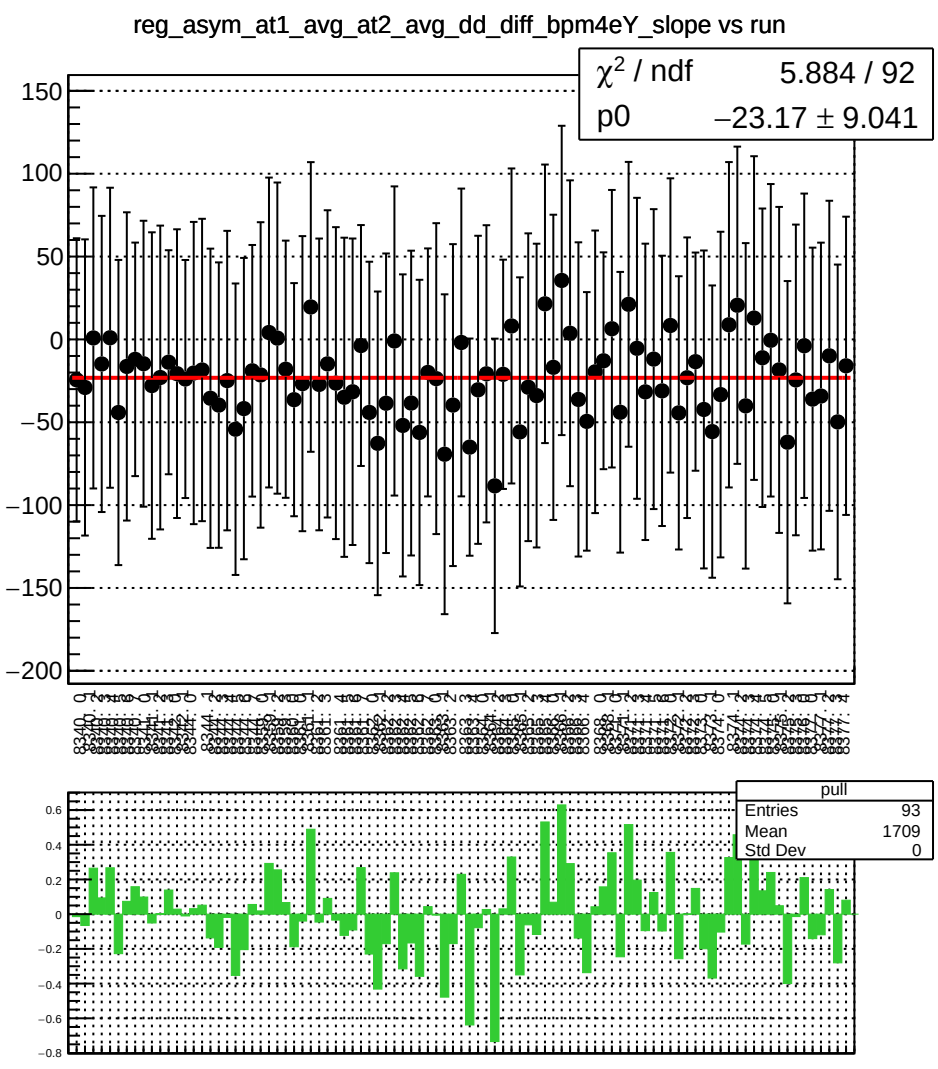

pull1D
Entries 93
Mean −0.0007052
Std Dev 0.6988
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

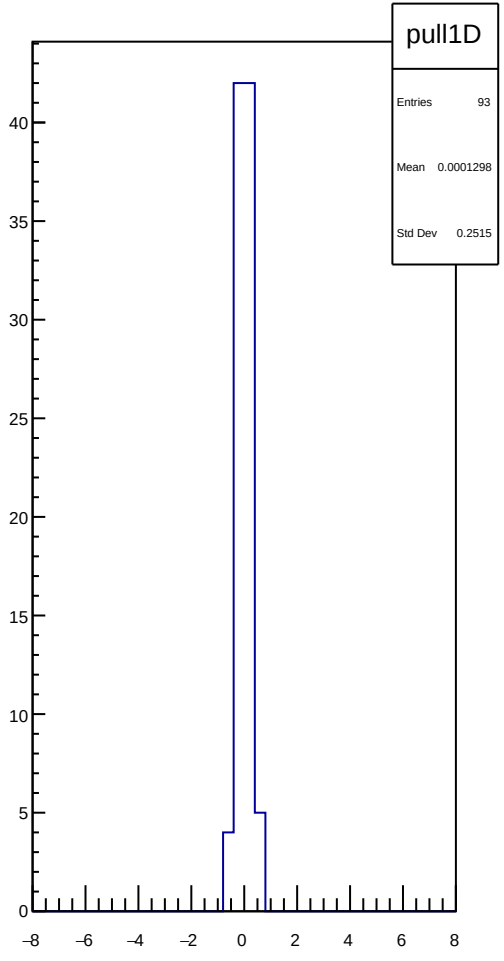

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 62.03 / 92
p0 28.2 ± 0.1995
pull
Entries 93
Mean 319.4
Std Dev 0
pull1D
Entries 93
Mean 0.02686
Std Dev 0.8162

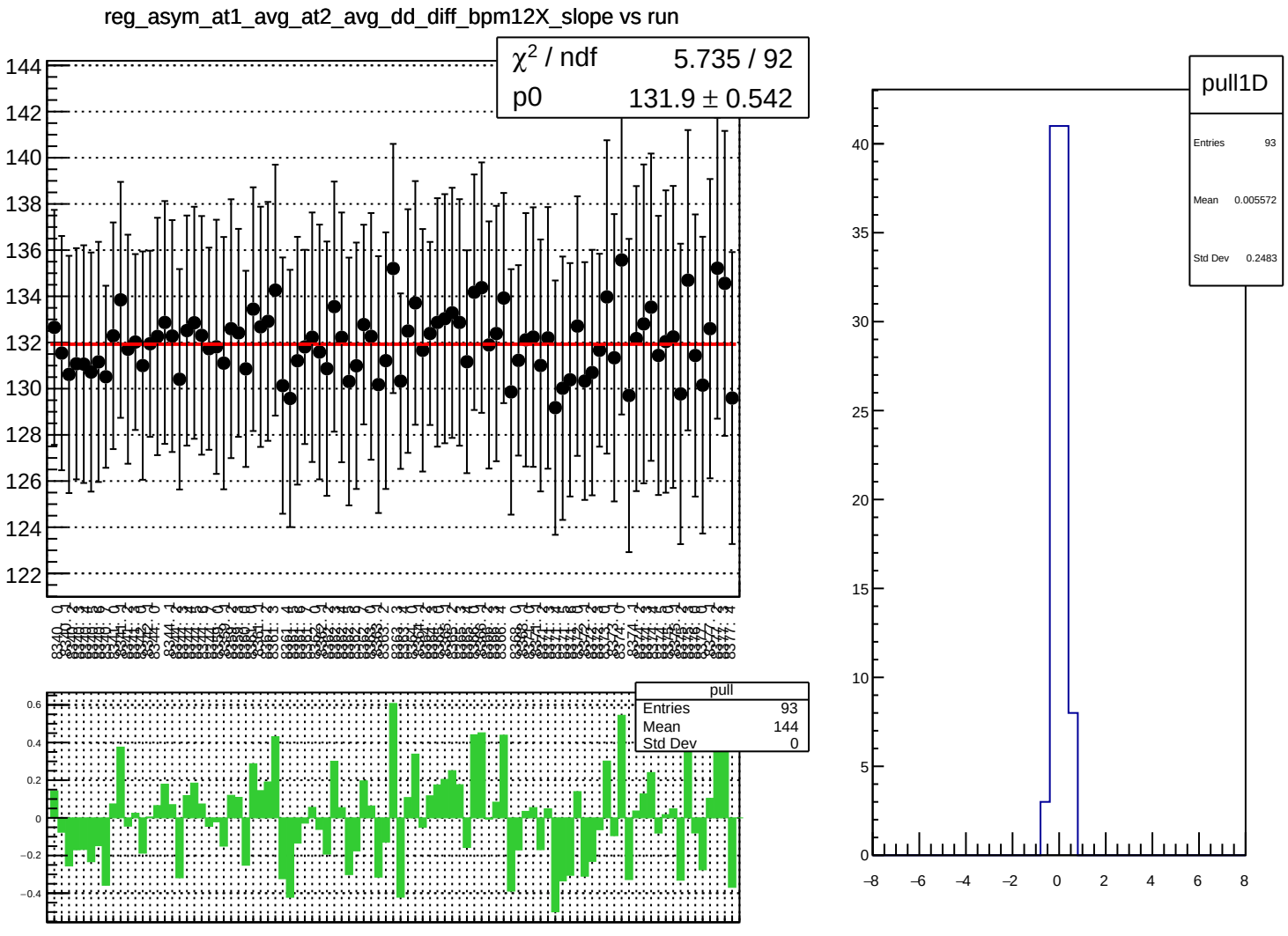

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 9.363 / 92
p0 242.6 ± 4.402
pull
Entries 93
Mean −583.8
Std Dev 0
pull1D
Entries 93
Mean −0.006415
Std Dev 0.3172

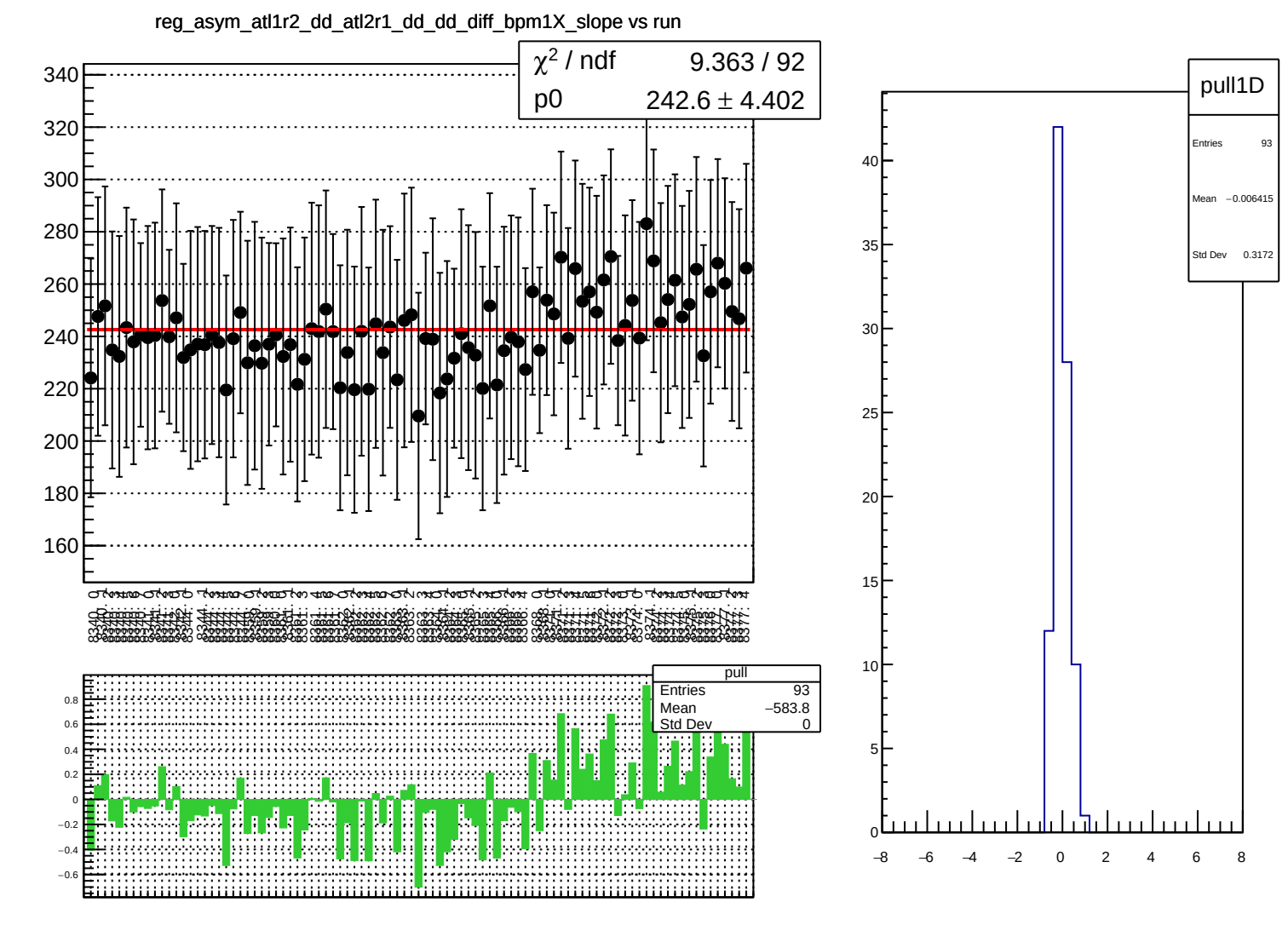

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.657 / 92
p0 −43.33 ± 8.755
pull
Entries 93
Mean −1625
Std Dev 0
pull1D
Entries 93
Mean 0.0001357
Std Dev 0.2466

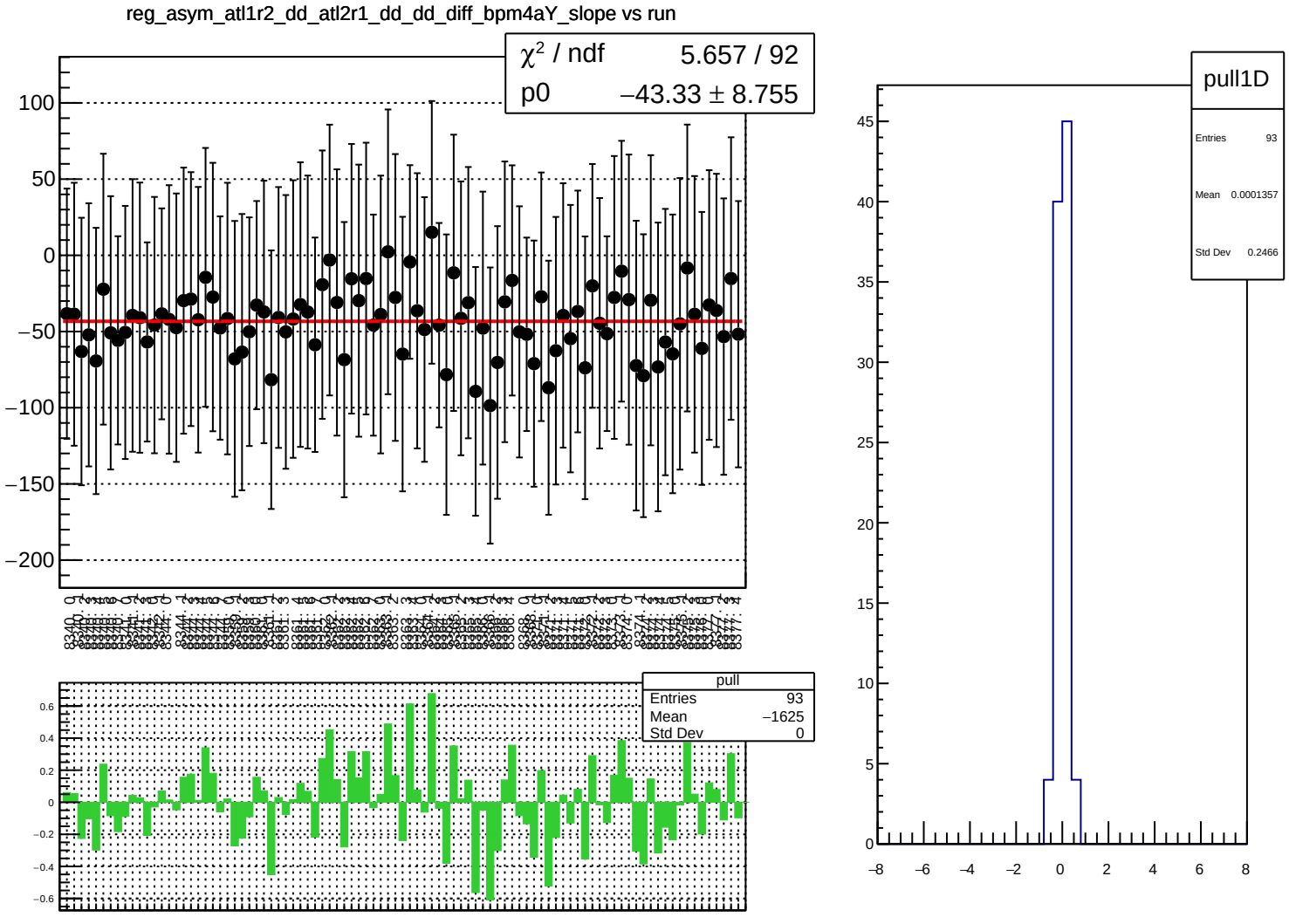

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.564 / 92
p0 −230.2 ± 5.056
pull
Entries 93
Mean −686.8
Std Dev 0
pull1D
Entries 93
Mean 0.003807
Std Dev 0.2852

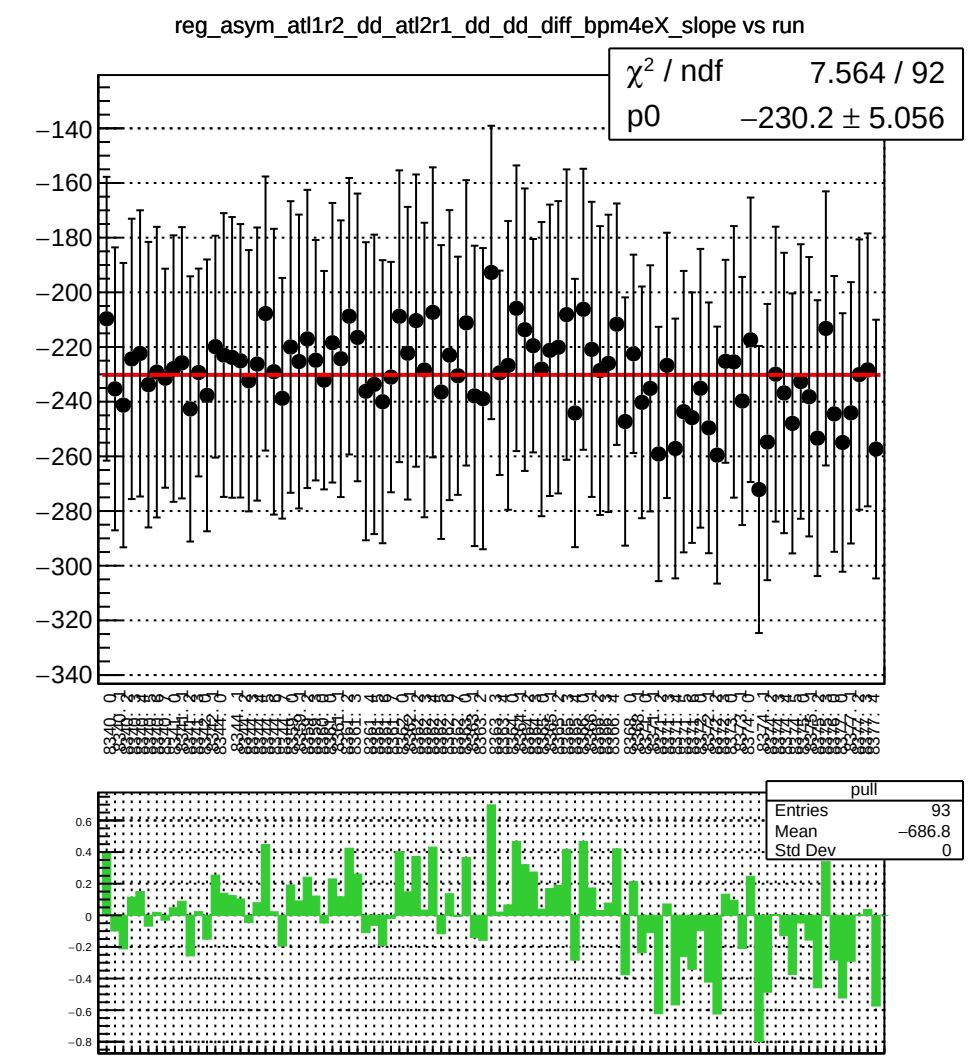

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.884 / 92
p0 −23.17 ± 9.041
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 1709
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

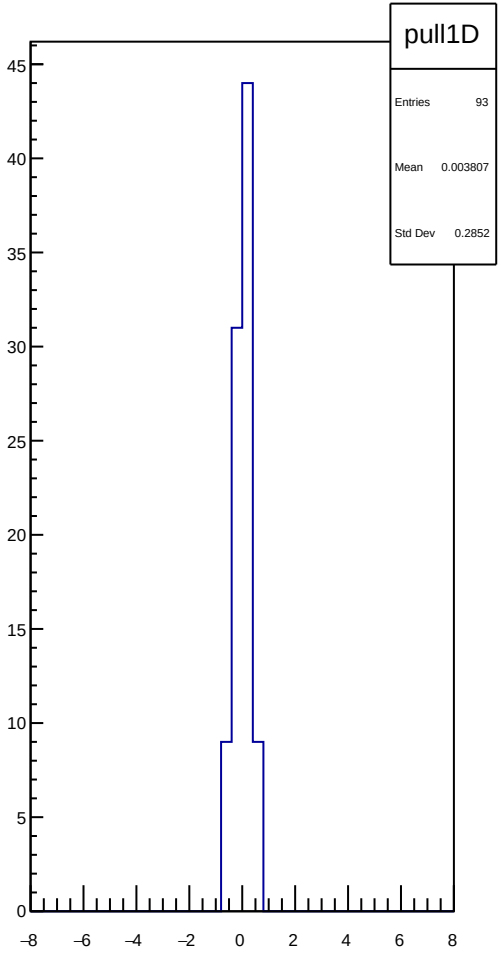

pull1D
Entries 93
Mean 0.0001298
Std Dev 0.2515
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

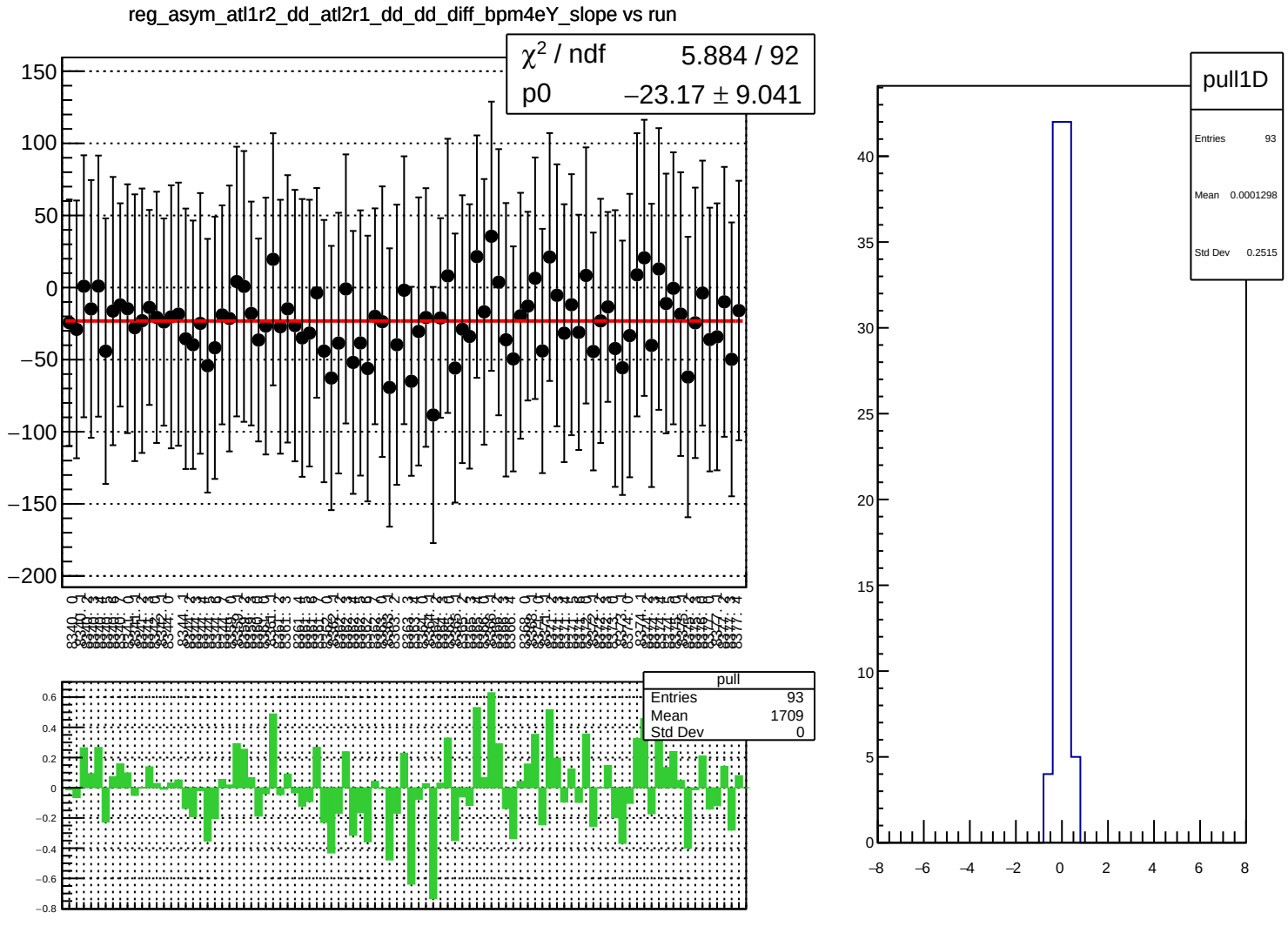

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ^2 / ndf 5.735 / 92
p0 131.9 ± 0.542
144
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 93
Mean 144
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.005572
Std Dev 0.2483
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

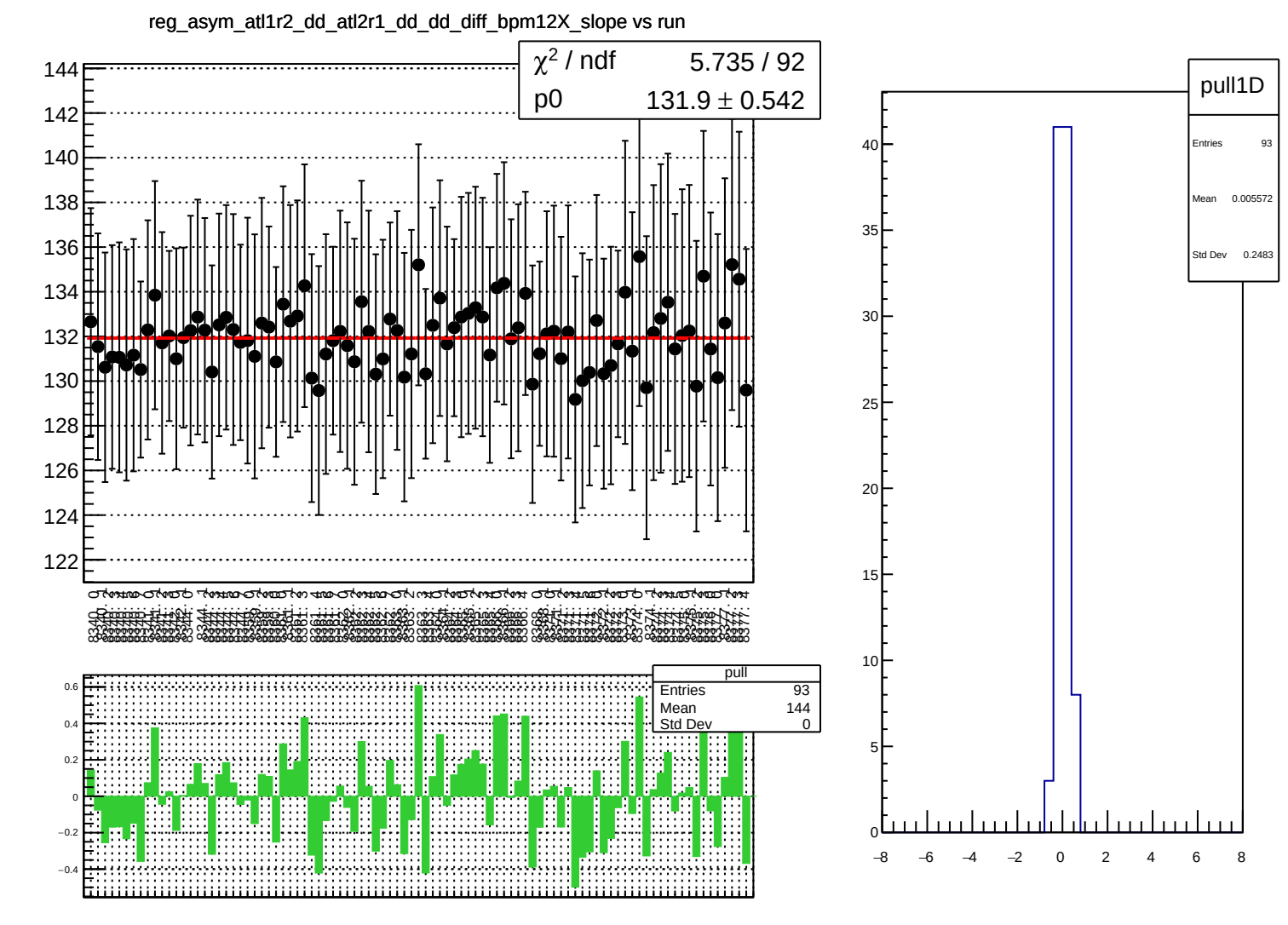

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 9.363 / 92
p0 242.6 ± 4.402
340
320
300
280
260
240
220
200
180
160
pull
Entries 93
Mean −583.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.006415
Std Dev 0.3172
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

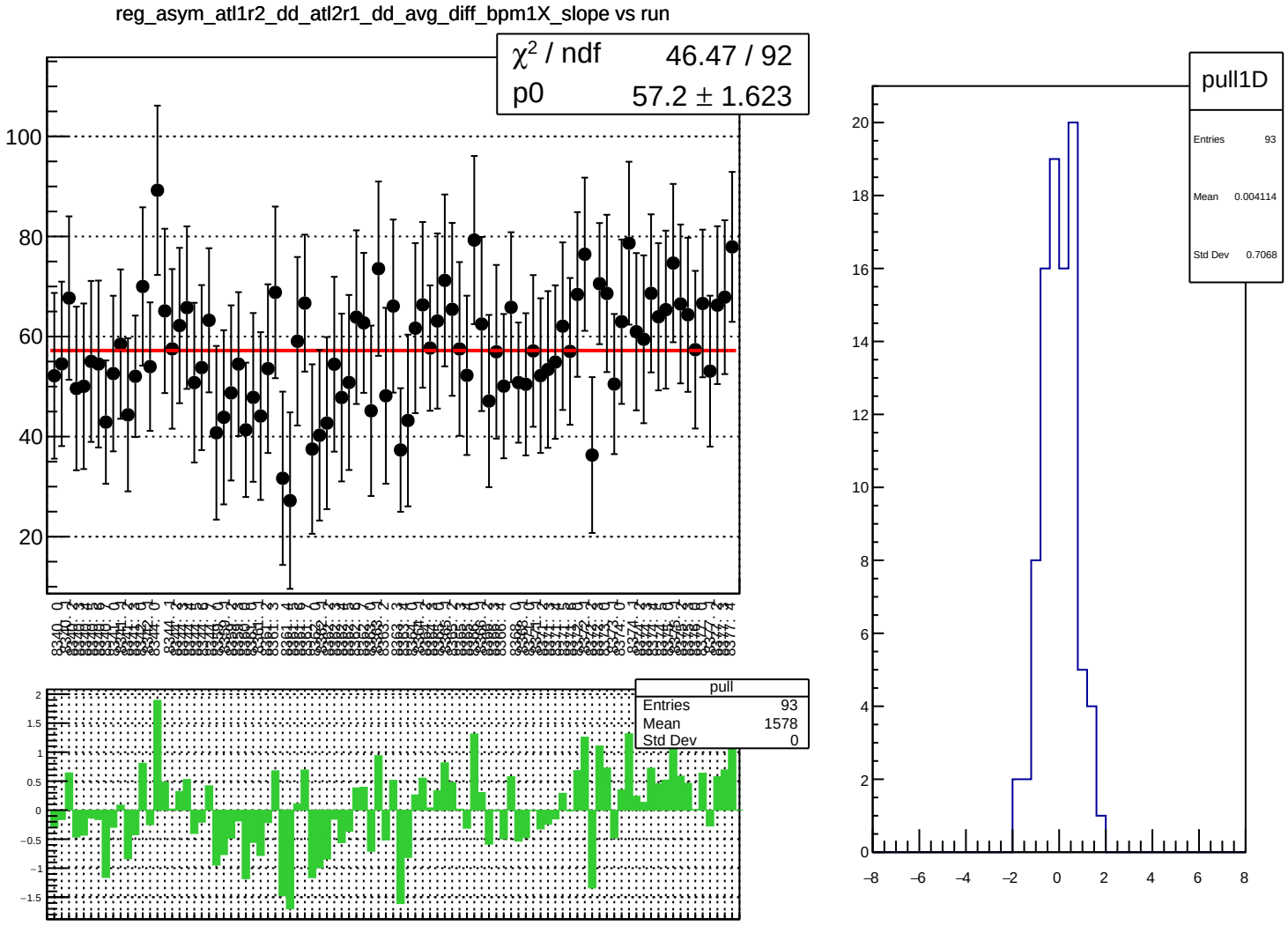

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.657 / 92
p0 −43.33 ± 8.755
pull
Entries 93
Mean −1625
Std Dev 0
pull1D
Entries 93
Mean 0.0001357
Std Dev 0.2466

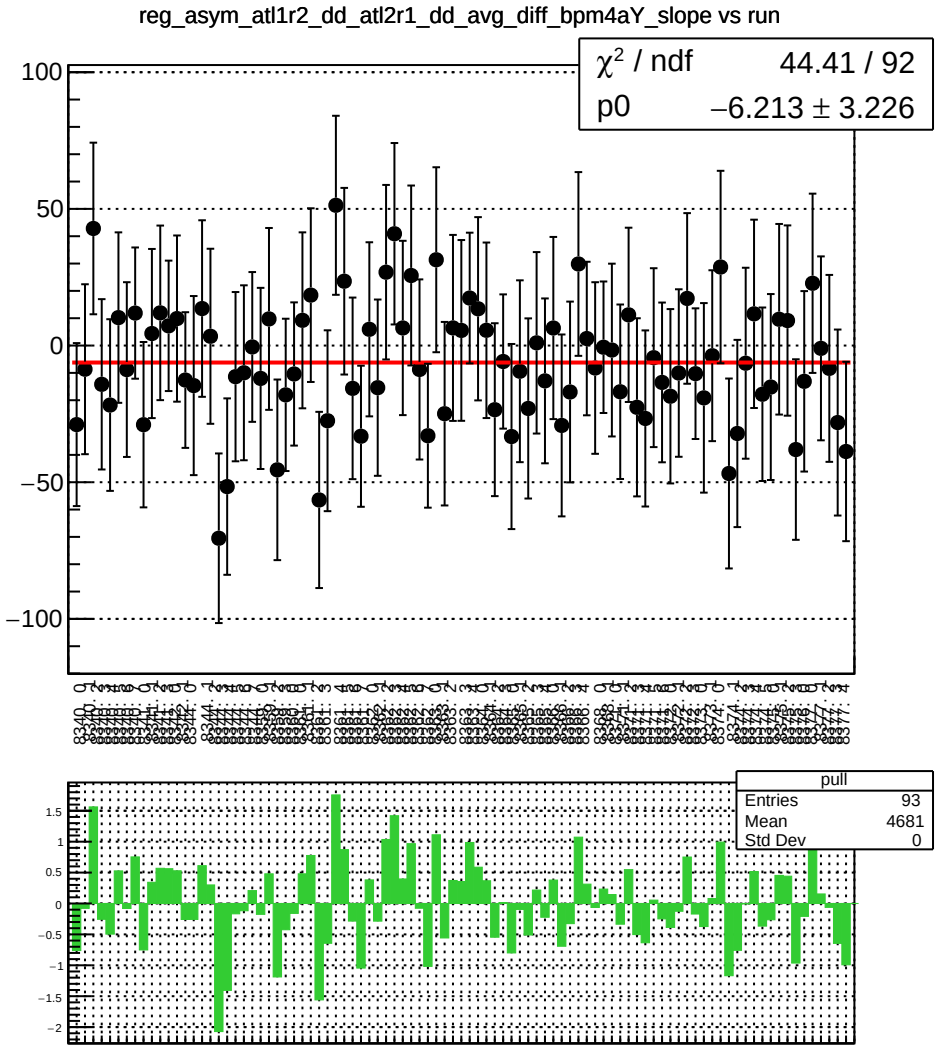

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.564 / 92
p0 −230.2 ± 5.056
pull
Entries 93
Mean −686.8
Std Dev 0

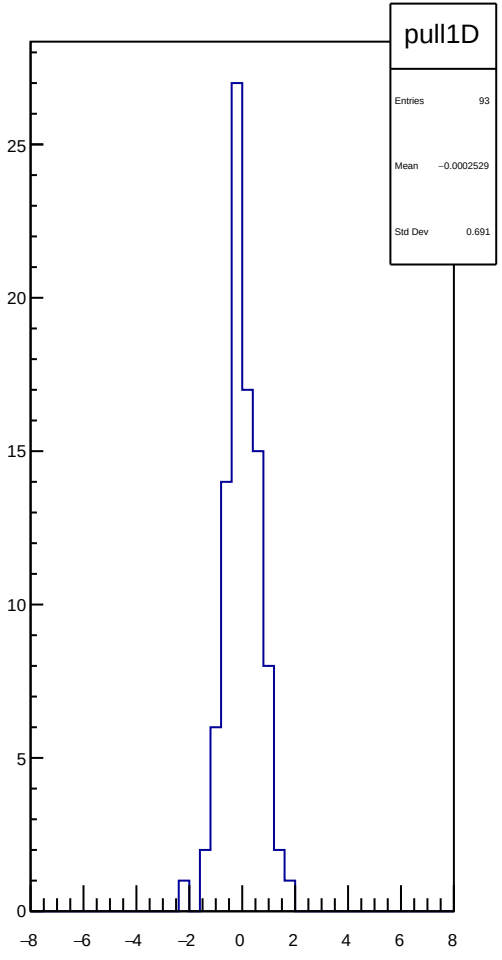

pull1D
Entries 93
Mean 0.003807
Std Dev 0.2852

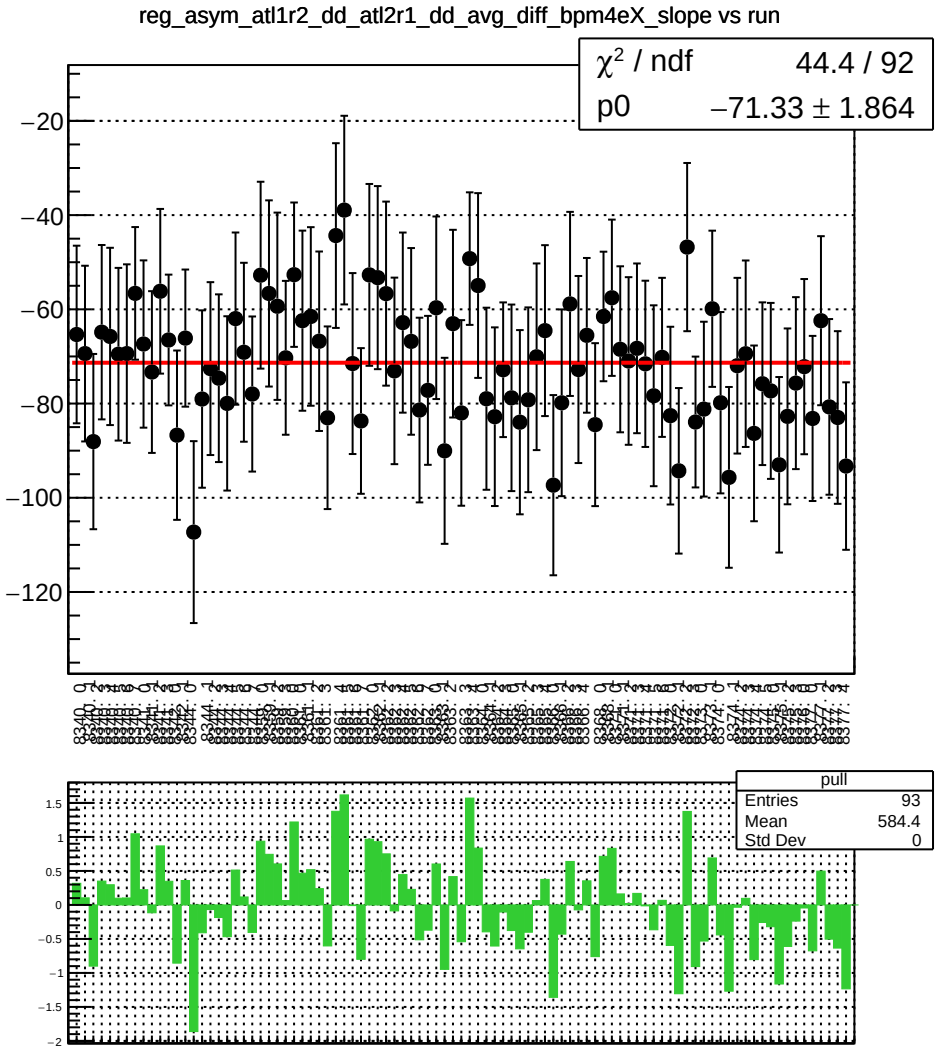

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.884 / 92
p0 −23.17 ± 9.041
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 1709
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.0001298
Std Dev 0.2515
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

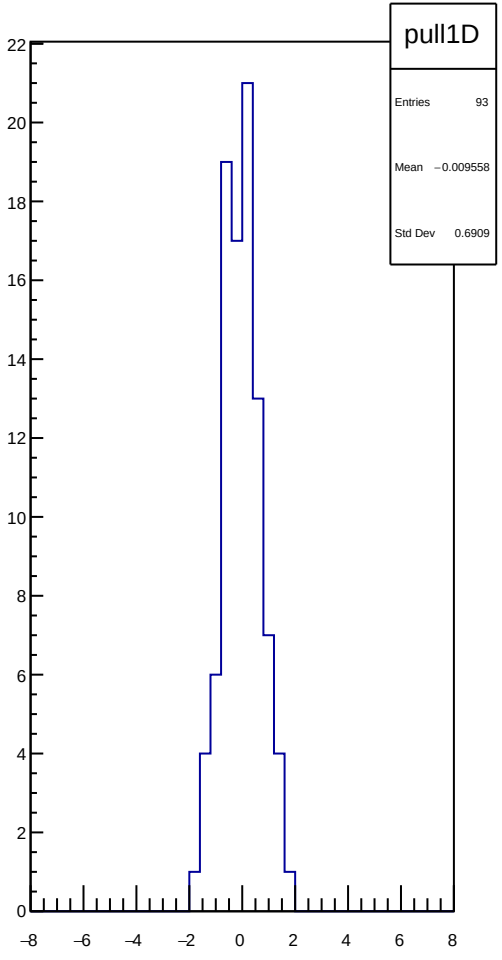

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5.735 / 92
p0 131.9 ± 0.542
144
142
140
138
136
134
132
130
128
126
124
122
pull
Entries 93
Mean 144
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.005572
Std Dev 0.2483
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

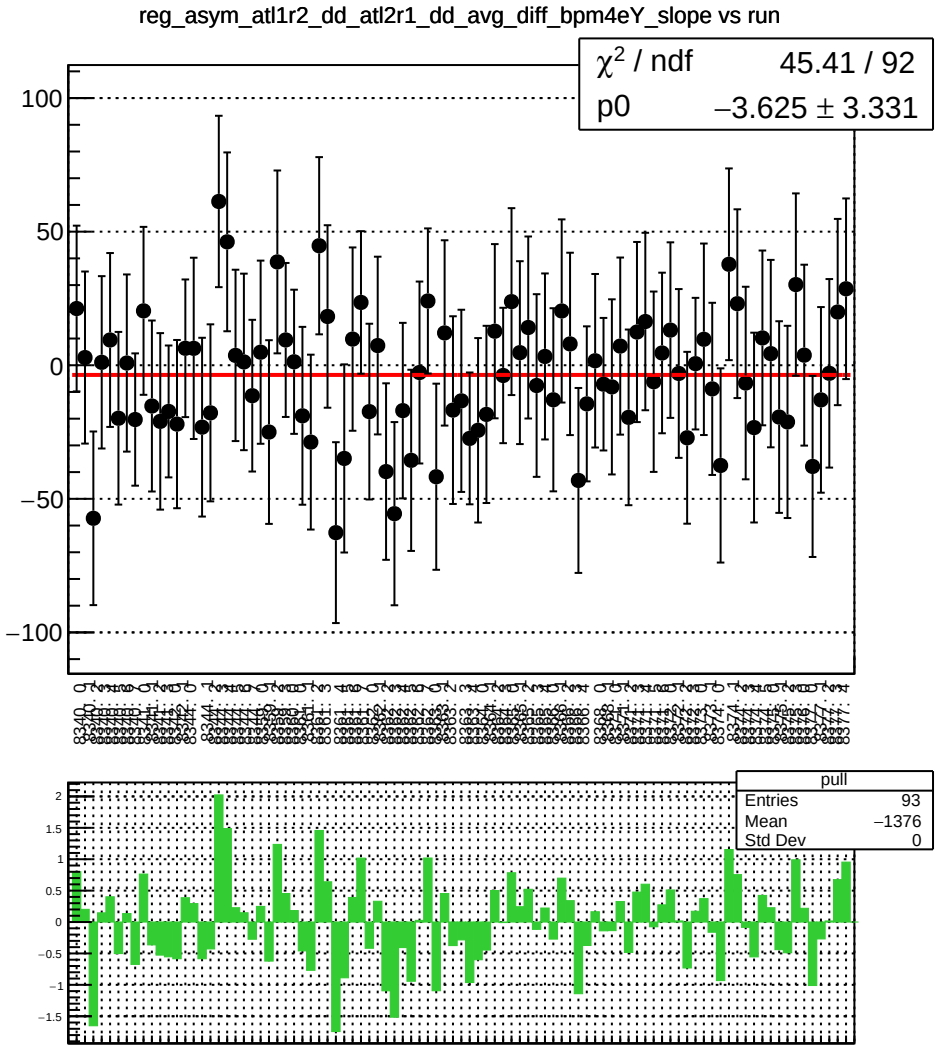

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 46.47 / 92
p0 57.2 ± 1.623
pull
Entries 93
Mean 1578
Std Dev 0
pull1D
Entries 93
Mean 0.004114
Std Dev 0.7068

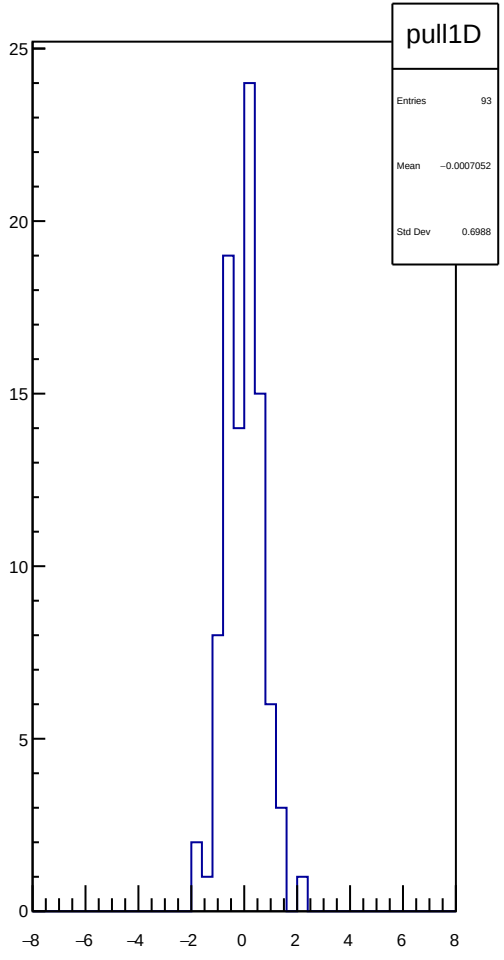

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.41 / 92
p0 −6.213 ± 3.226
pull
Entries 93
Mean 4681
Std Dev 0

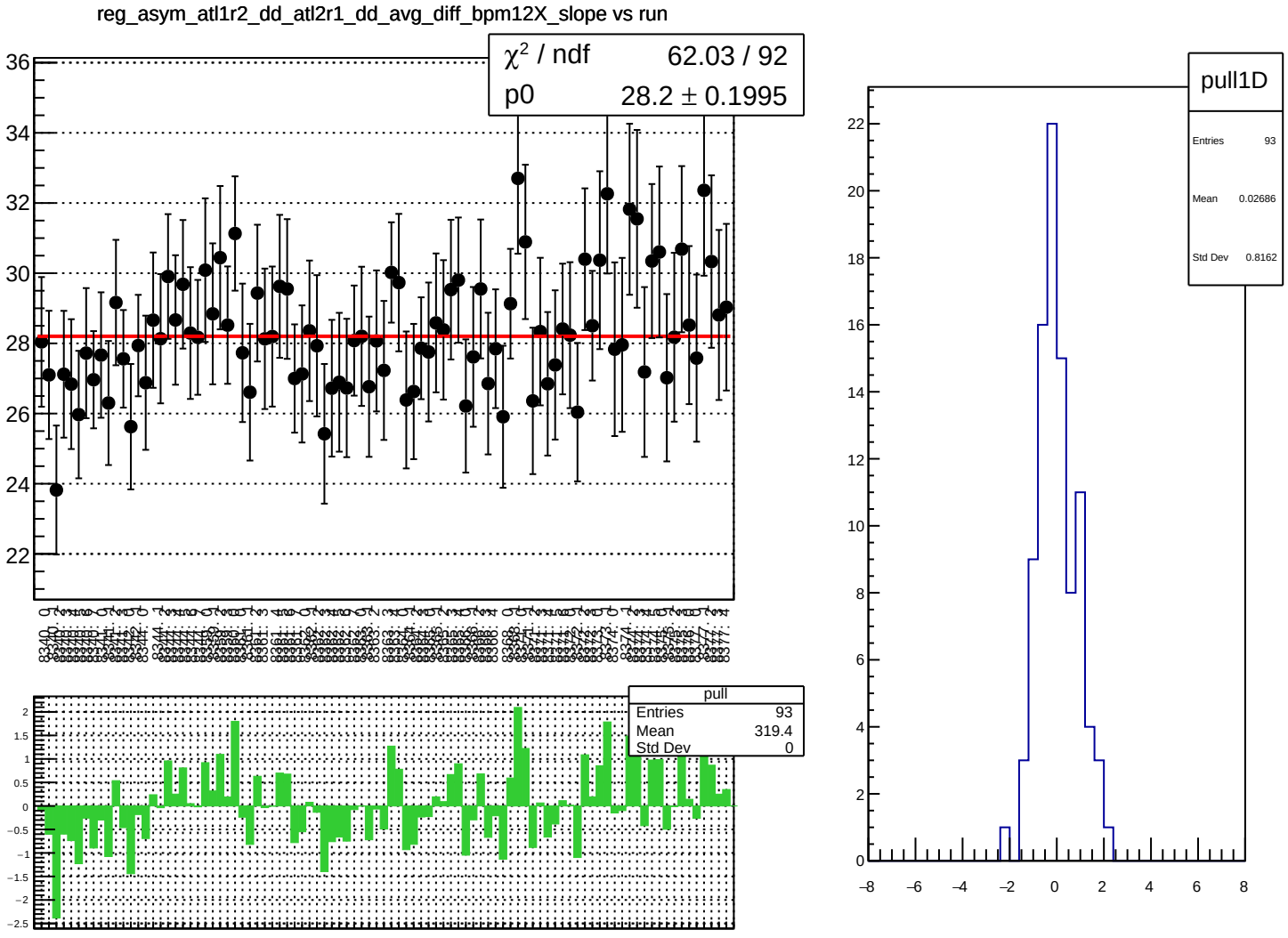

pull1D
Entries 93
Mean −0.0002529
Std Dev 0.691

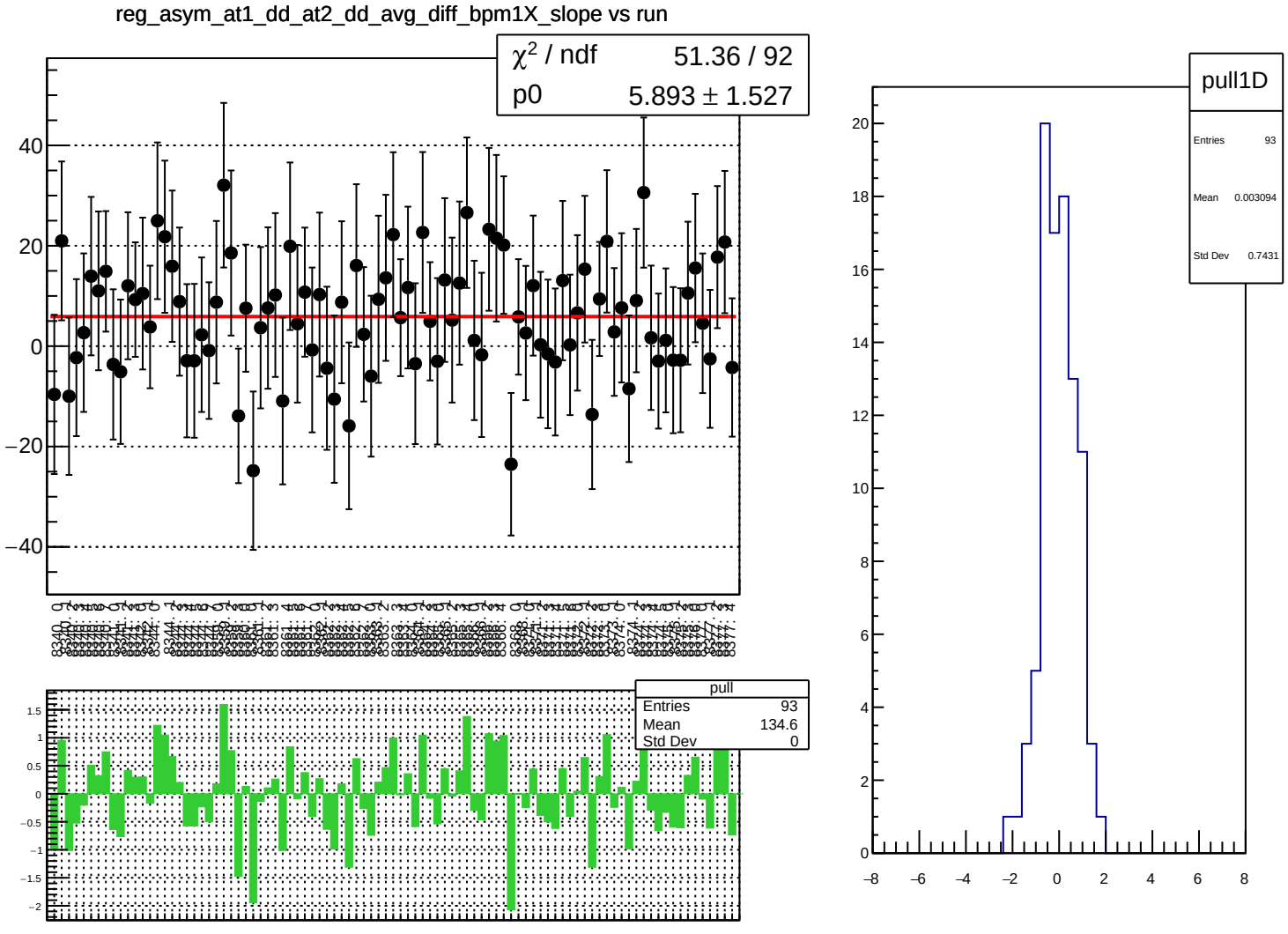

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.4 / 92
p0 −71.33 ± 1.864
pull
Entries 93
Mean 584.4
Std Dev 0

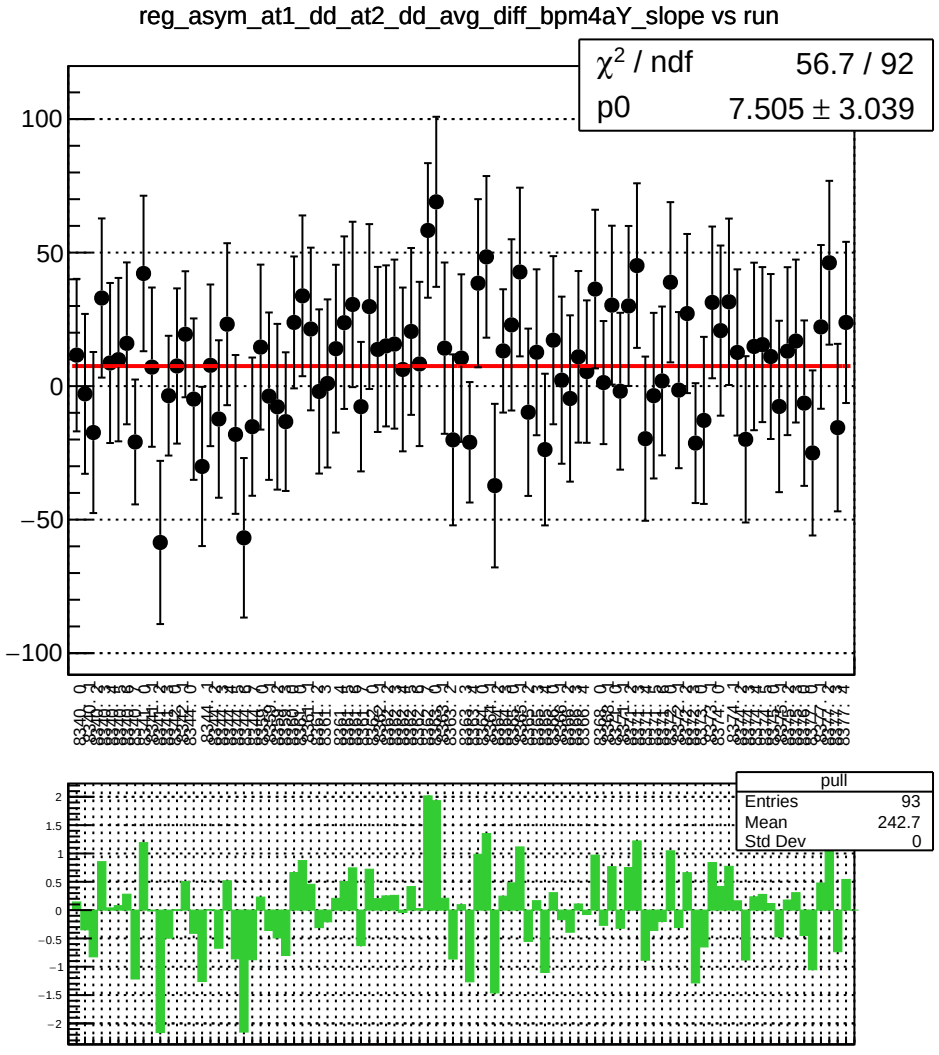

pull1D
Entries 93
Mean −0.009558
Std Dev 0.6909

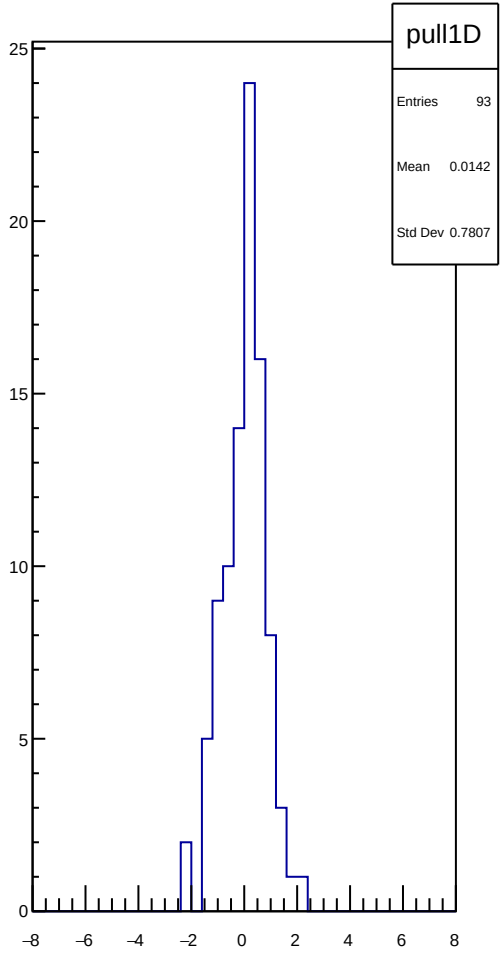

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.41 / 92
p0 −3.625 ± 3.331
100
50
0
−50
−100
pull
Entries 93
Mean −1376
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

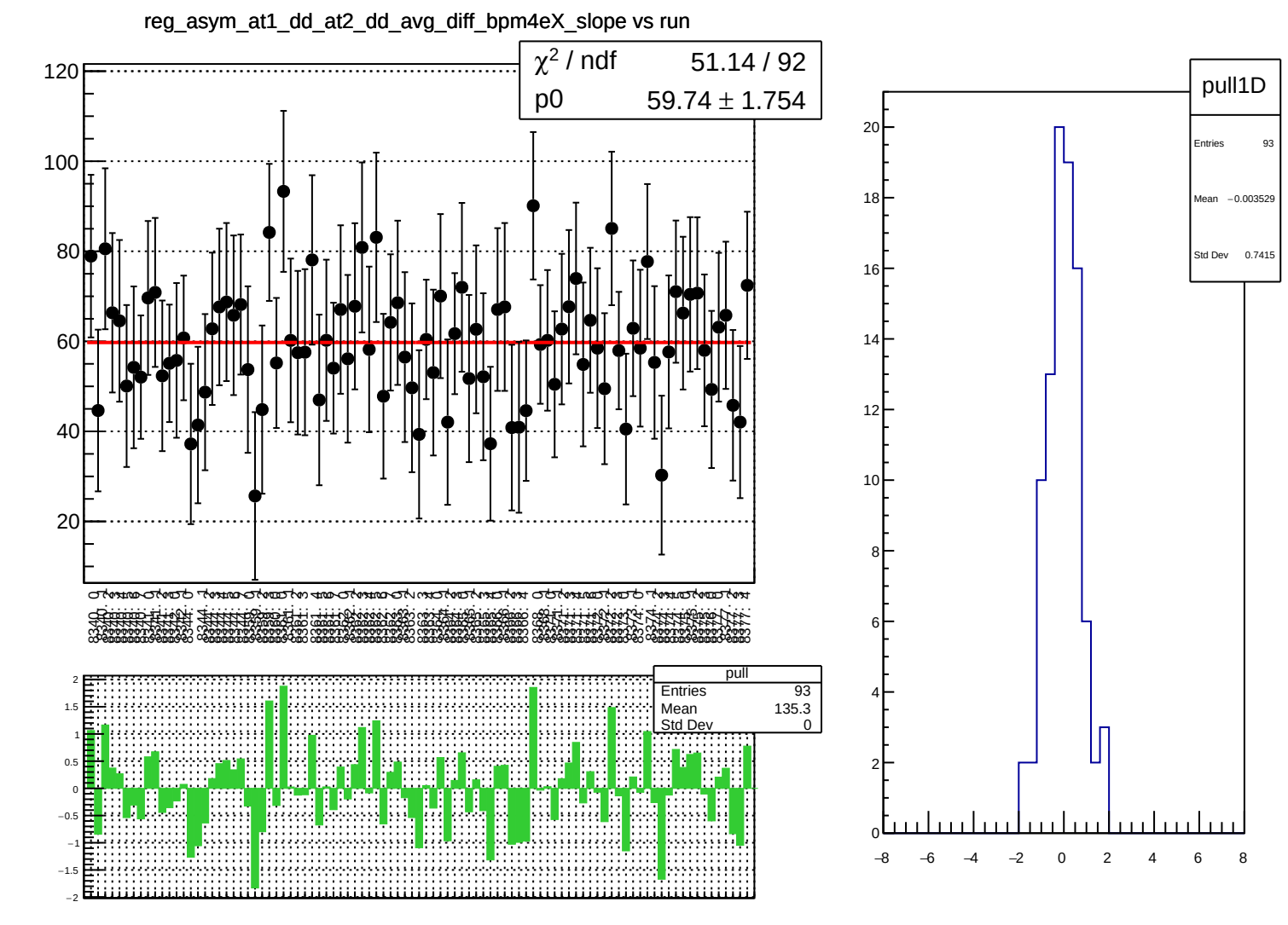

pull1D
Entries 93
Mean −0.0007052
Std Dev 0.6988
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

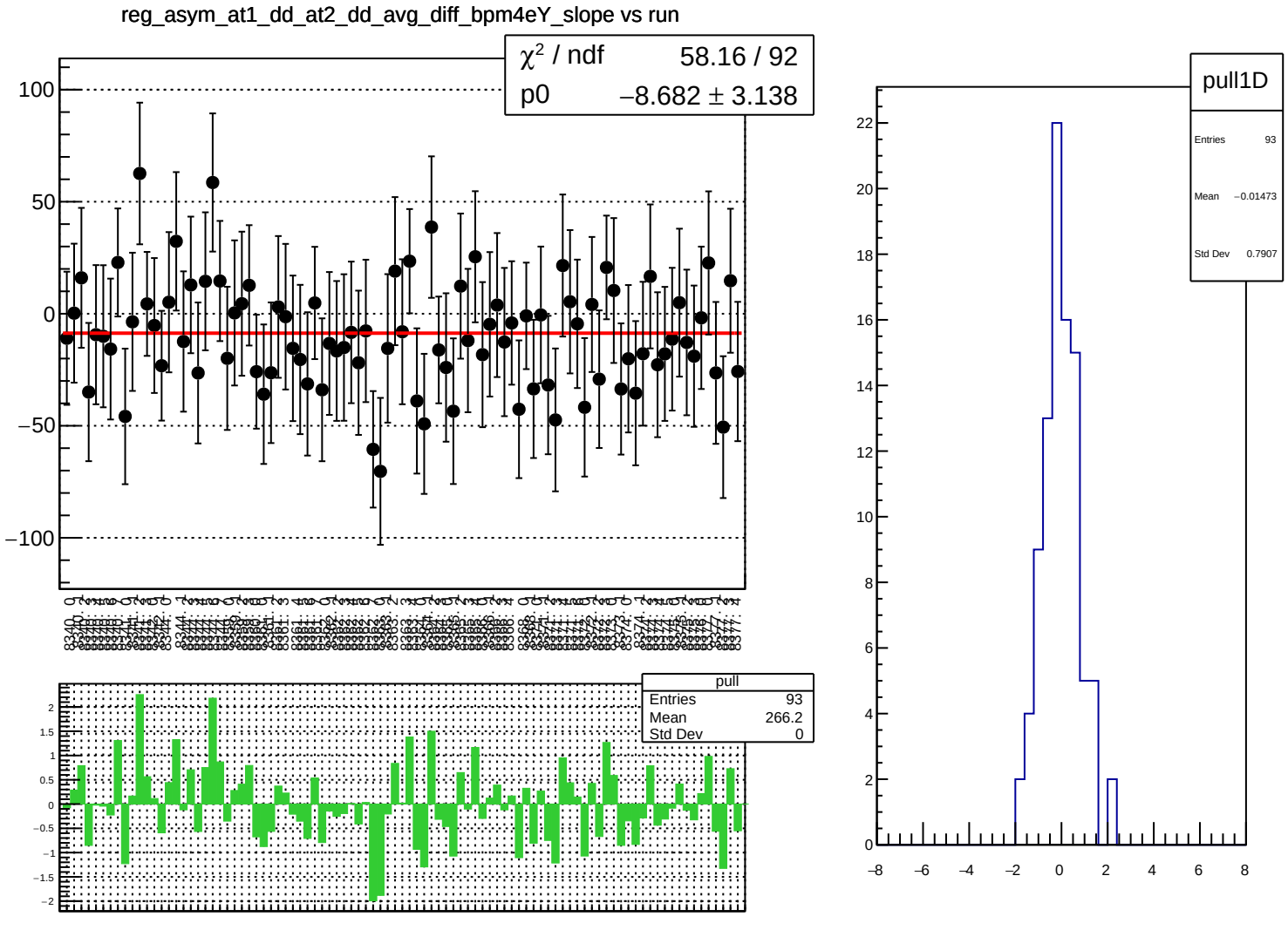

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 62.03 / 92
p0 28.2 ± 0.1995
pull
Entries 93
Mean 319.4
Std Dev 0
pull1D
Entries 93
Mean 0.02686
Std Dev 0.8162

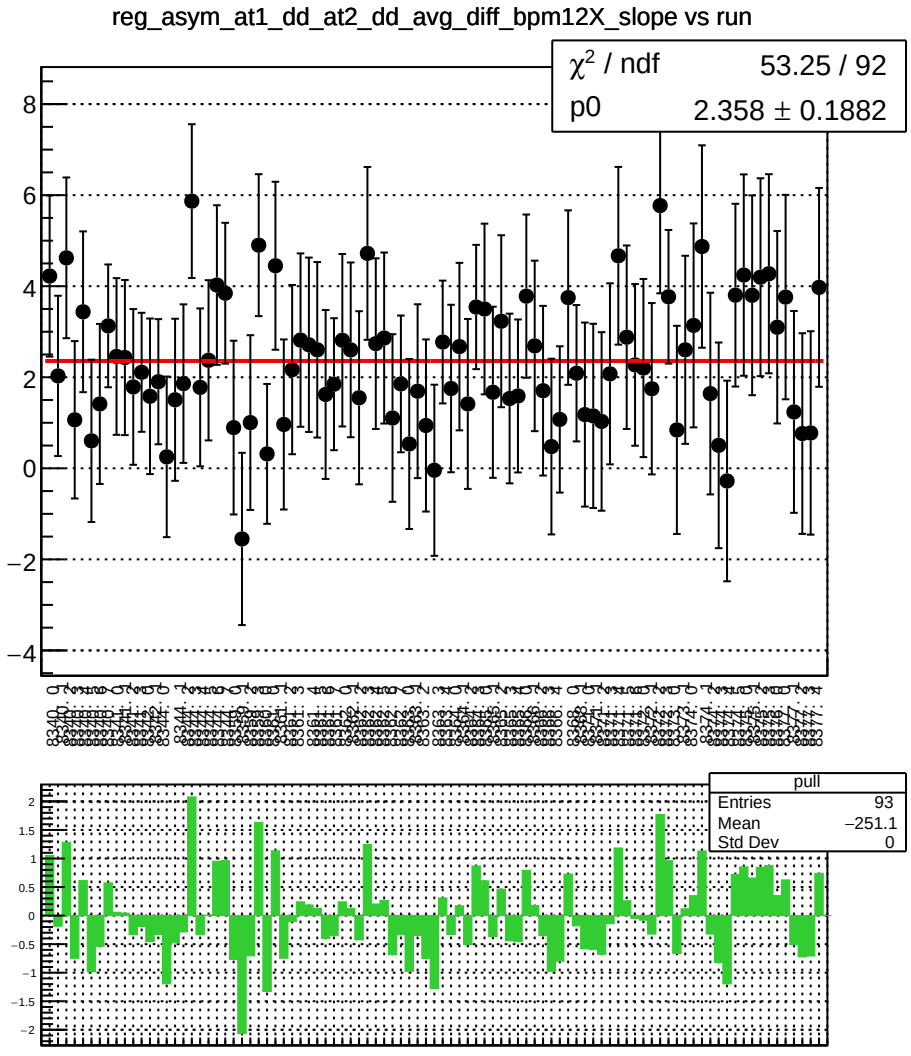

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 51.36 / 92
p0 5.893 ± 1.527
pull
Entries 93
Mean 134.6
Std Dev 0
pull1D
Entries 93
Mean 0.003094
Std Dev 0.7431

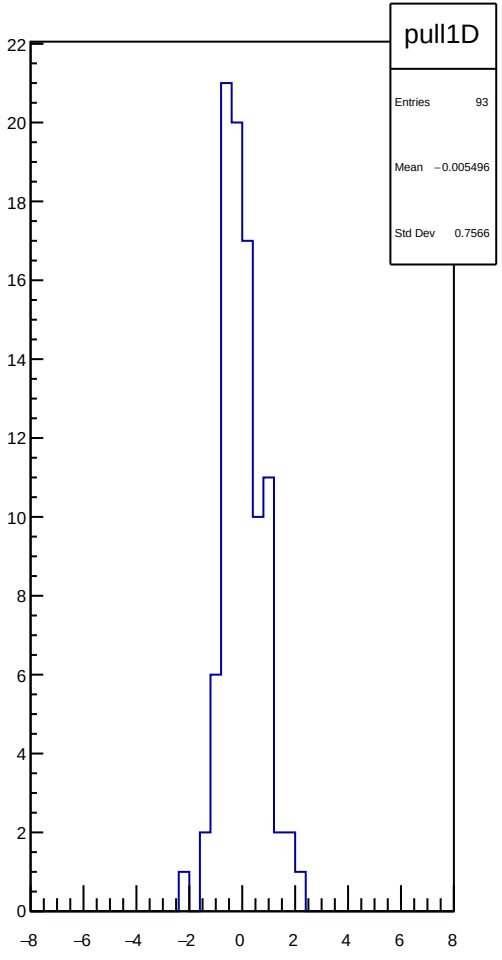

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.7 / 92
p0 7.505 ± 3.039
100
50
0
−50
−100
pull
Entries 93
Mean 242.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

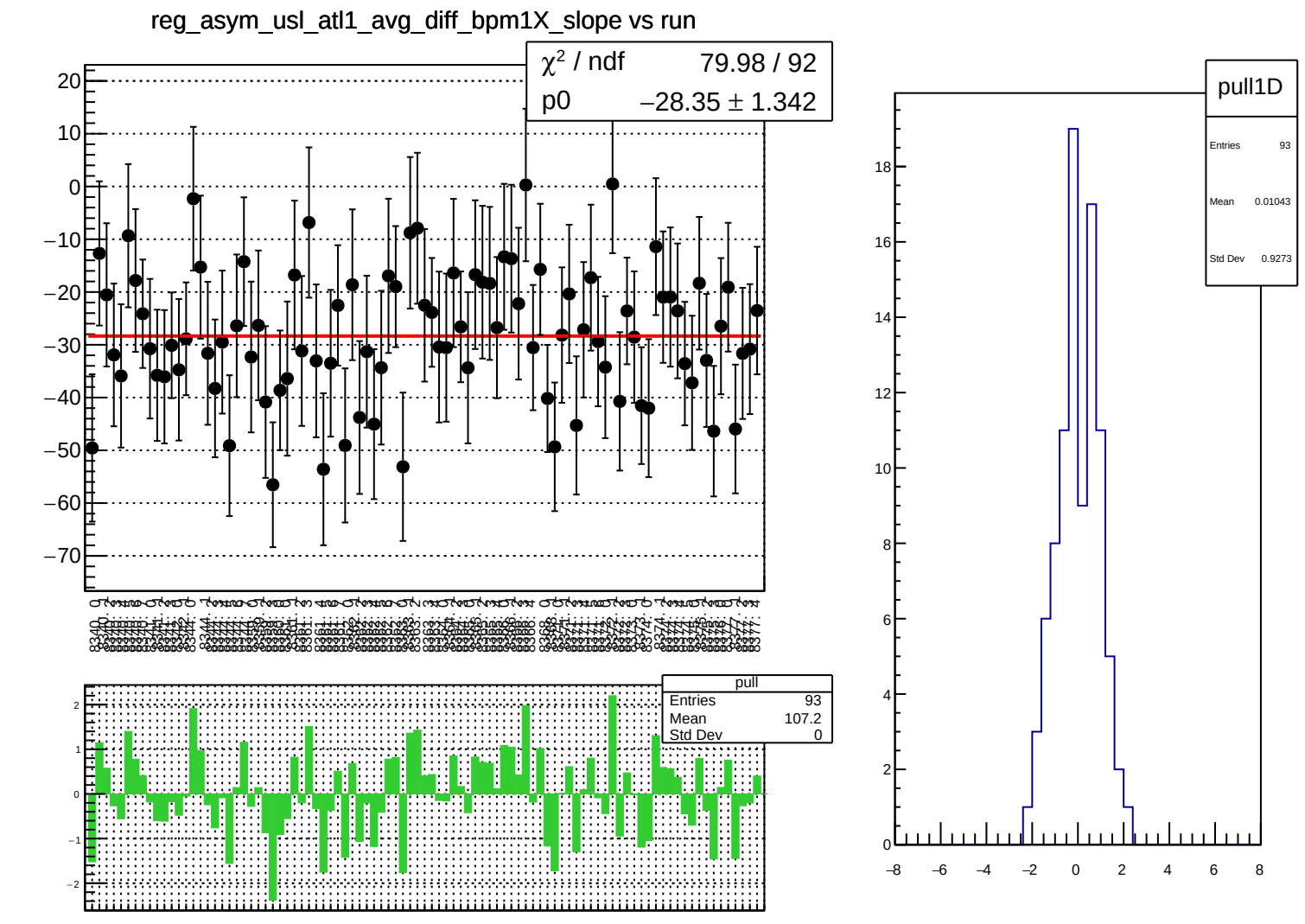

pull1D
Entries 93
Mean 0.0142
Std Dev 0.7807
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

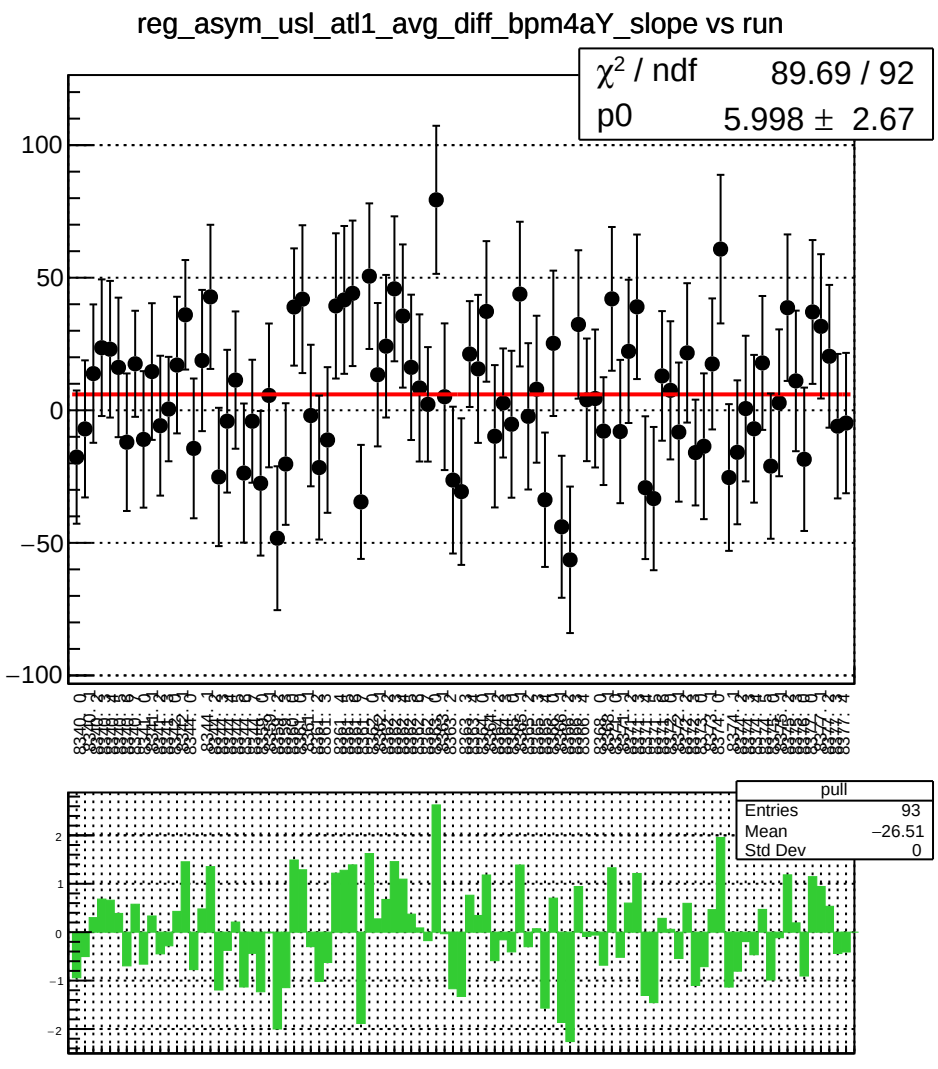

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 51.14 / 92
p0 59.74 ± 1.754
120
100
80
60
40
20
pull
Entries 93
Mean 135.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.003529
Std Dev 0.7415
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

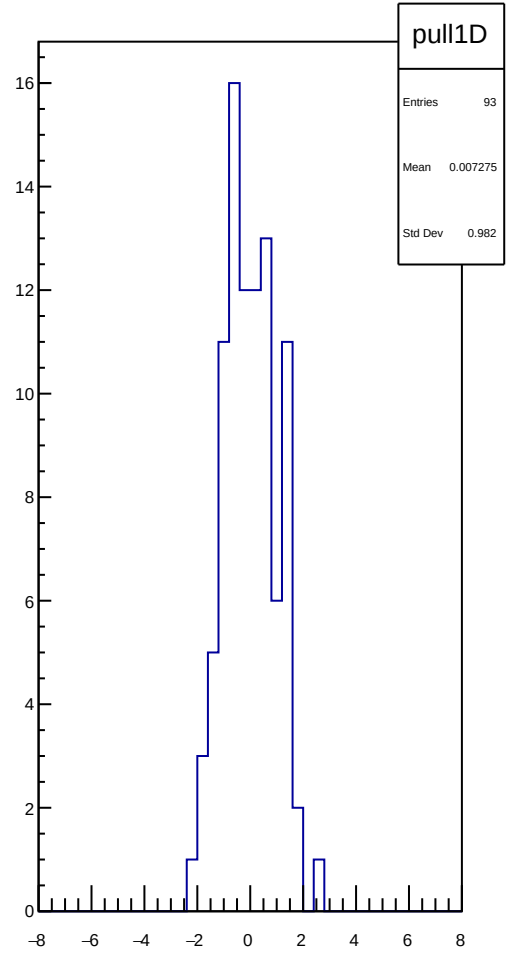

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.16 / 92
p0 −8.682 ± 3.138
100
50
0
−50
−100
pull
Entries 93
Mean 266.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean −0.01473
Std Dev 0.7907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

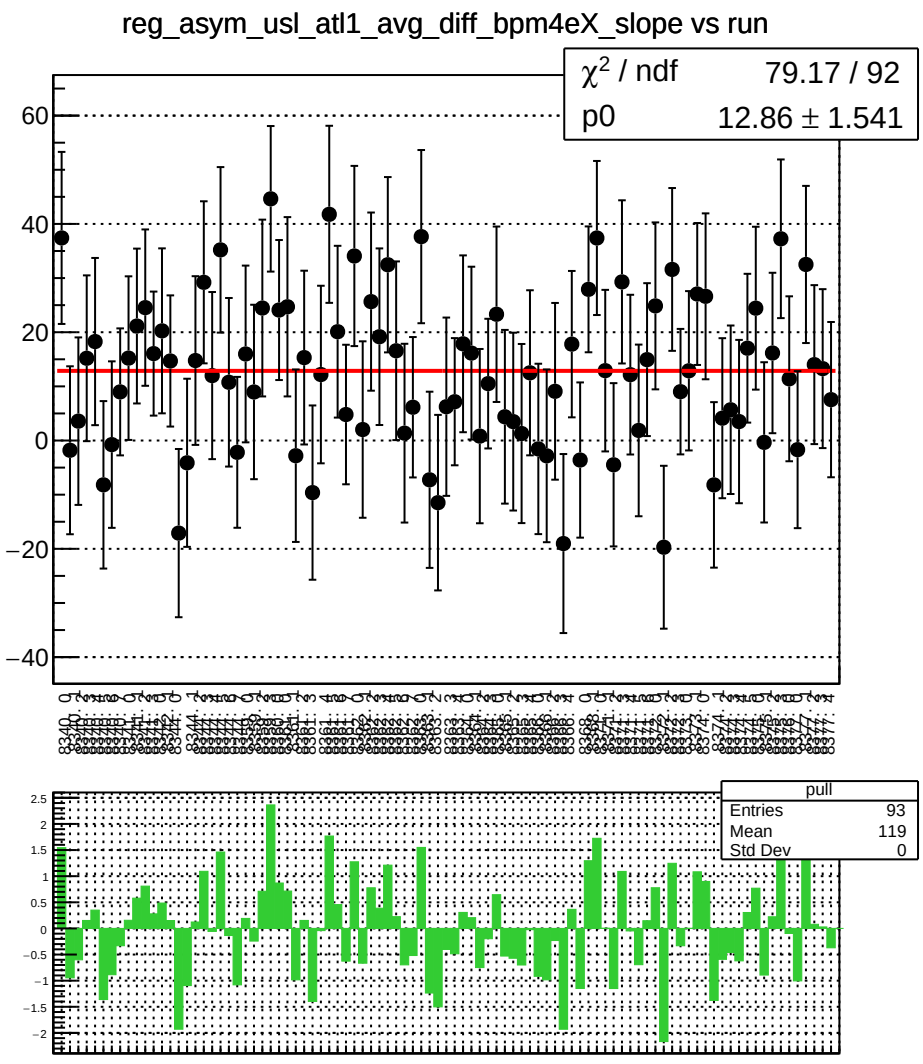

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 53.25 / 92
p0 2.358 ± 0.1882
pull
Entries 93
Mean −251.1
Std Dev 0

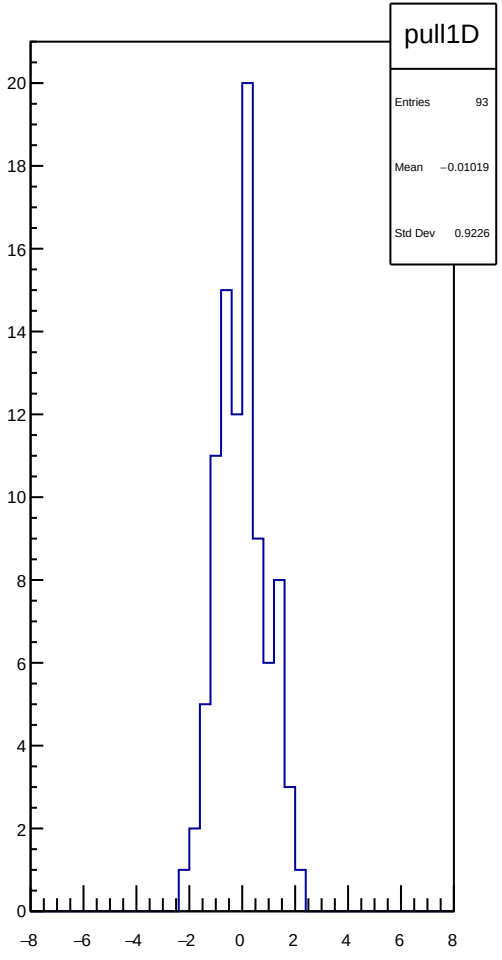

pull1D
Entries 93
Mean −0.005496
Std Dev 0.7566

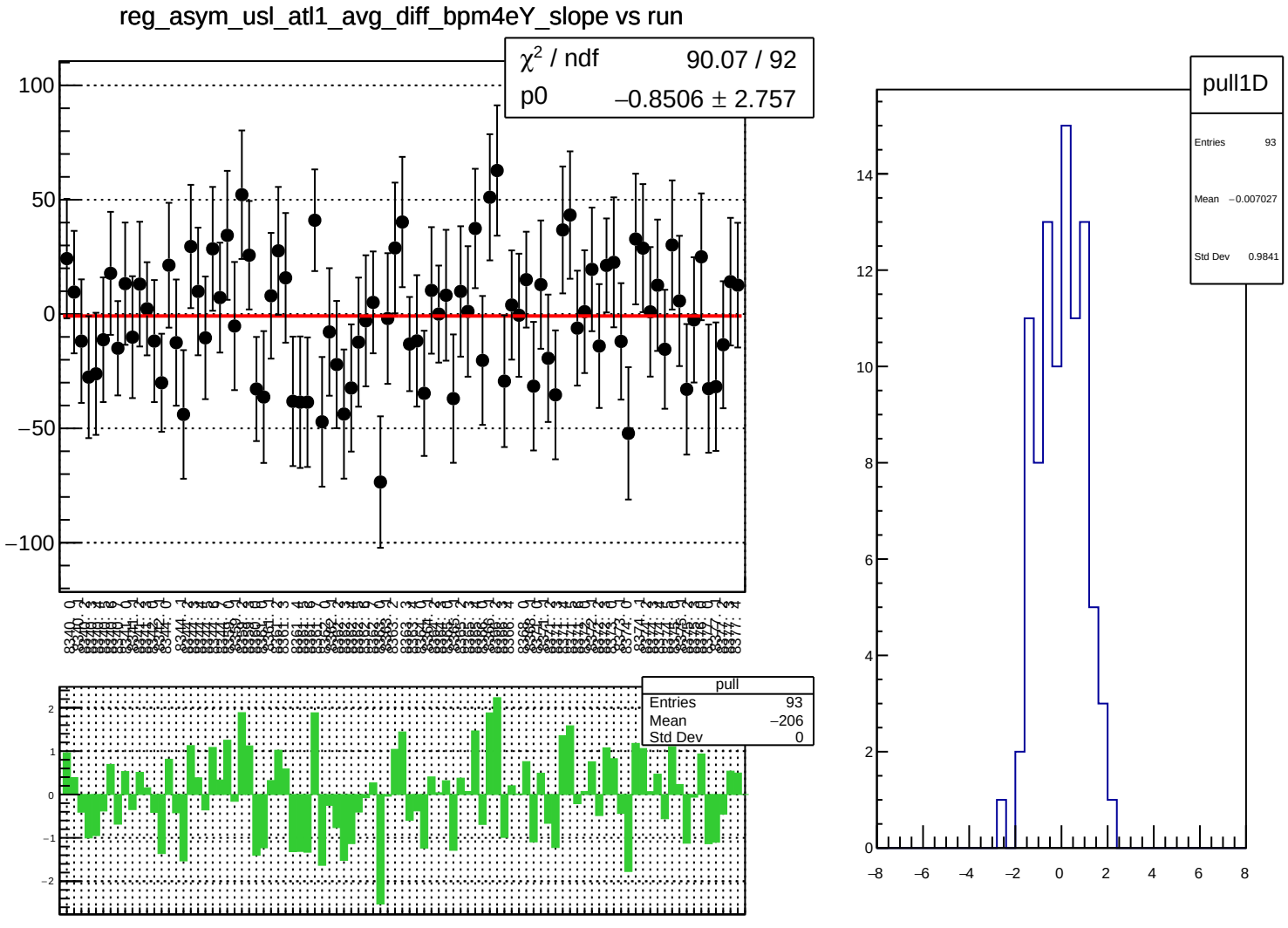

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 79.98 / 92
p0 −28.35 ± 1.342
pull
Entries 93
Mean 107.2
Std Dev 0
pull1D
Entries 93
Mean 0.01043
Std Dev 0.9273

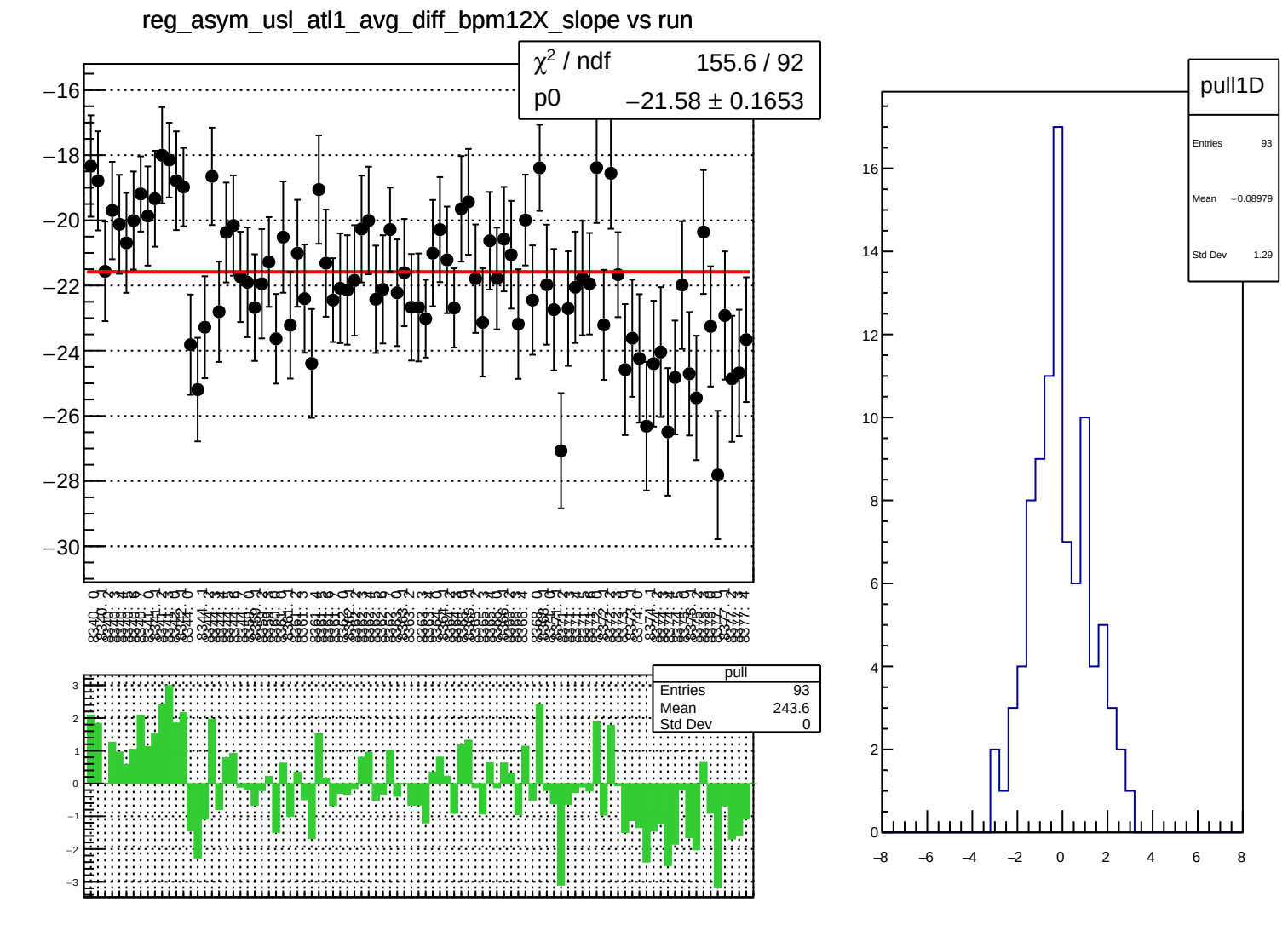

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.69 / 92
p0 5.998 ± 2.67
100
50
0
−50
−100
pull
Entries 93
Mean −26.51
Std Dev 0
2
1
0
−1
−2

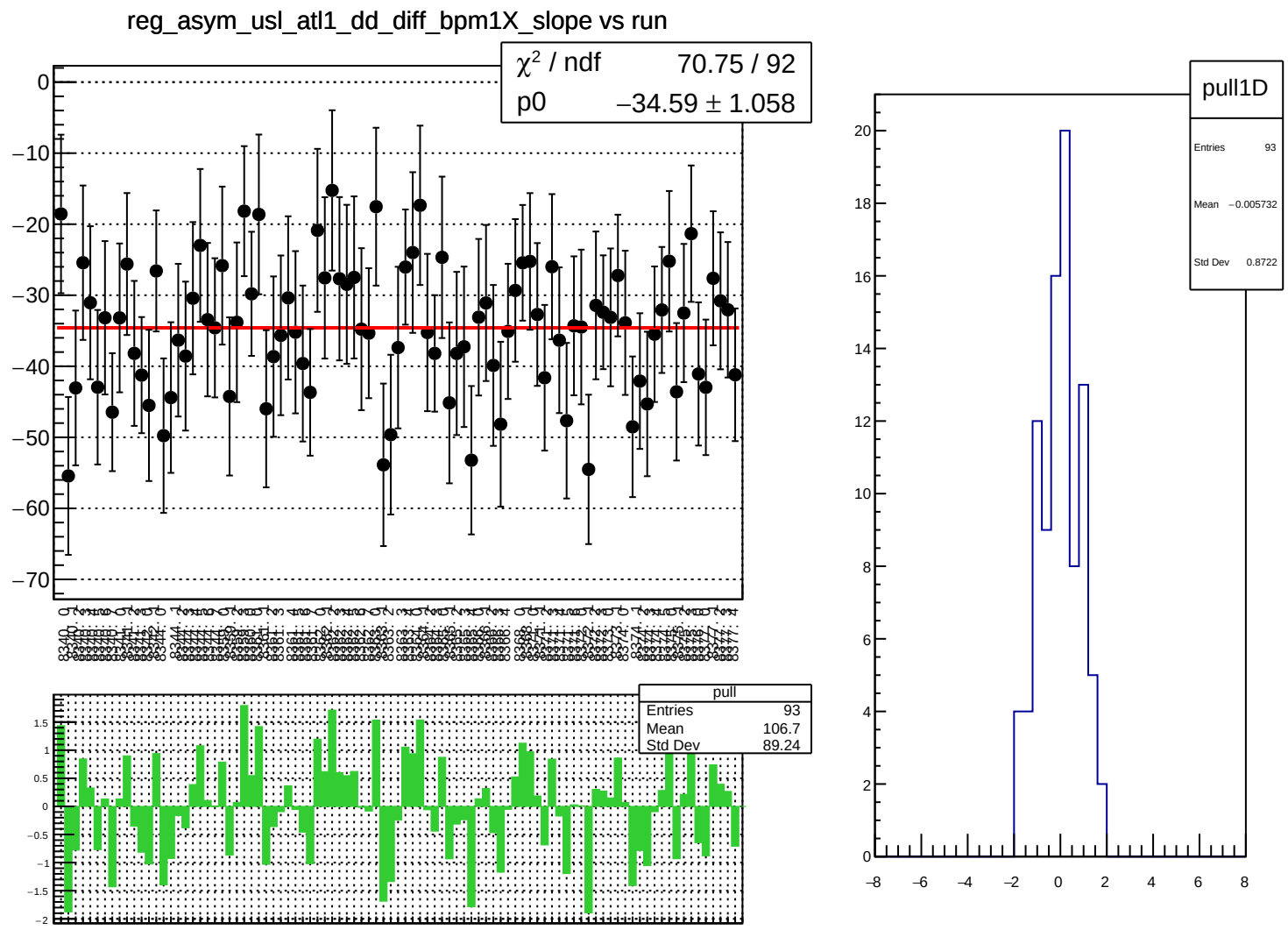

pull1D
Entries 93
Mean 0.007275
Std Dev 0.982
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

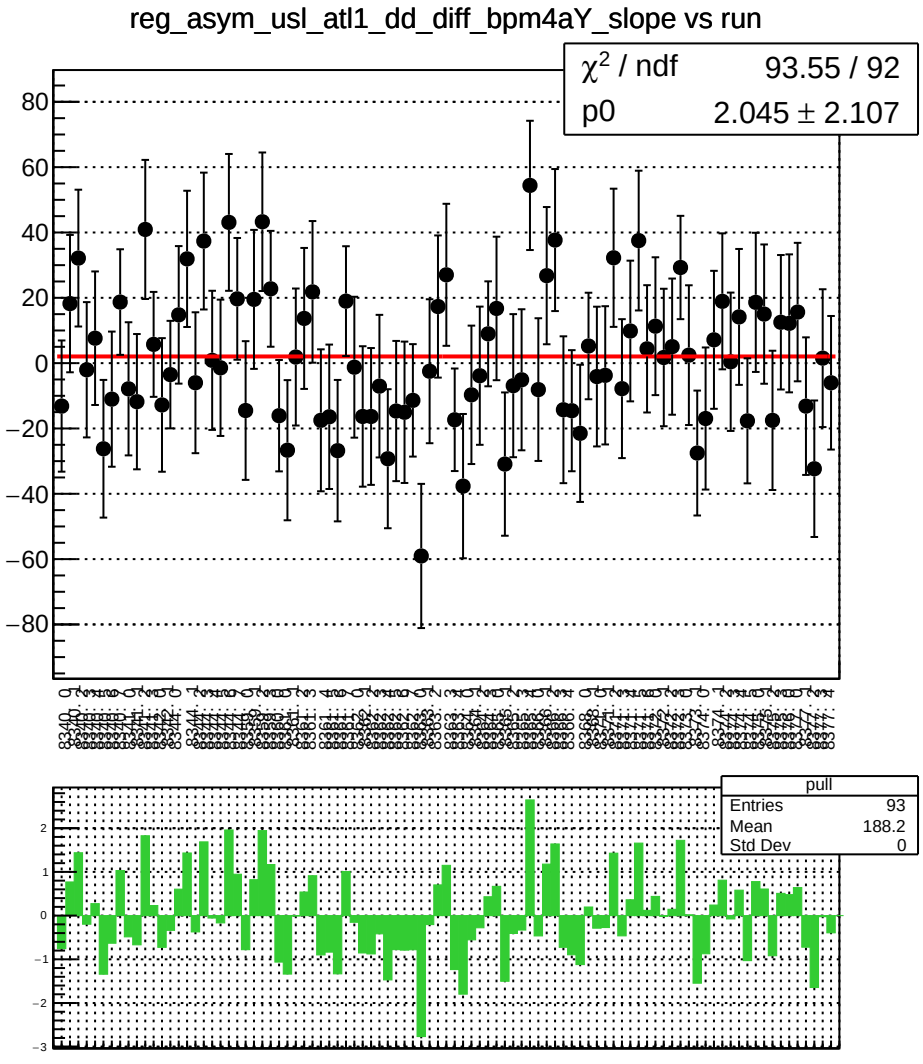

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.17 / 92
p0 12.86 ± 1.541
pull
Entries 93
Mean 119
Std Dev 0

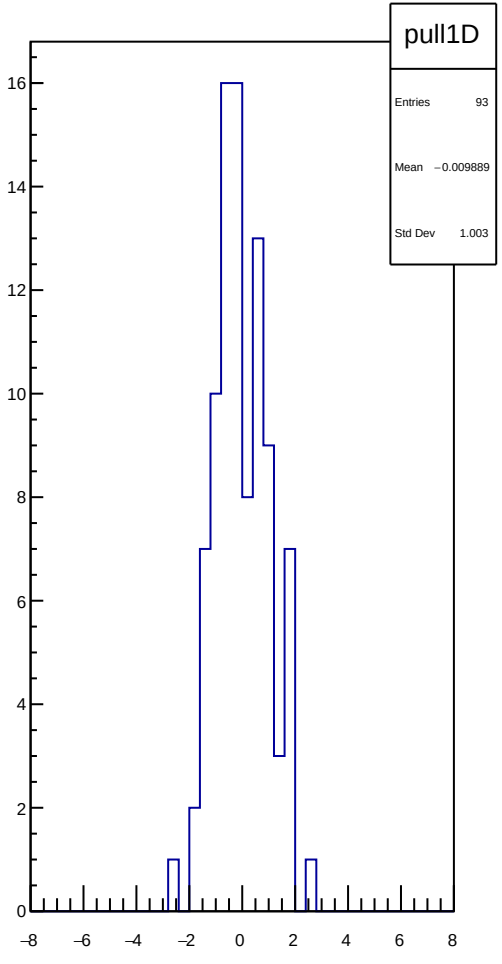

pull1D
Entries 93
Mean −0.01019
Std Dev 0.9226

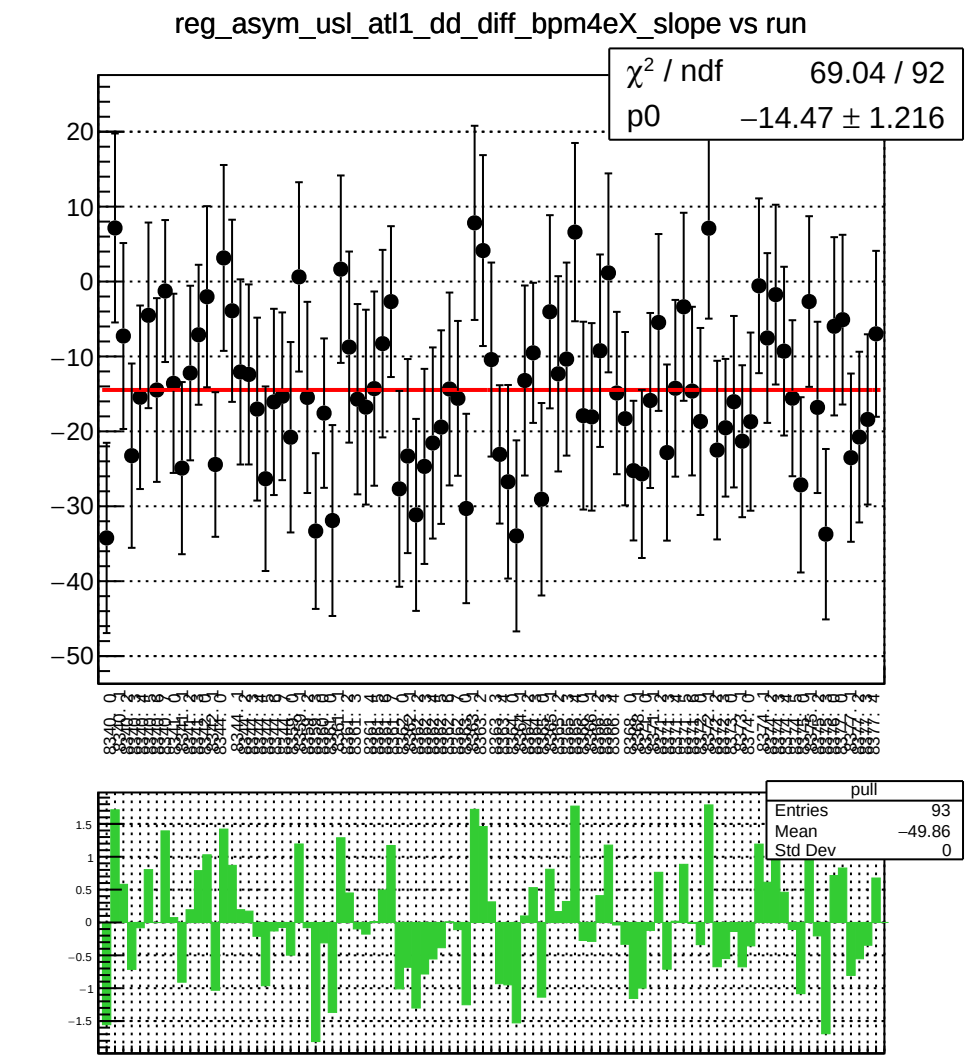

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 90.07 / 92
p0 −0.8506 ± 2.757
100
50
0
−50
−100
pull
Entries 93
Mean −206
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007027
Std Dev 0.9841
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

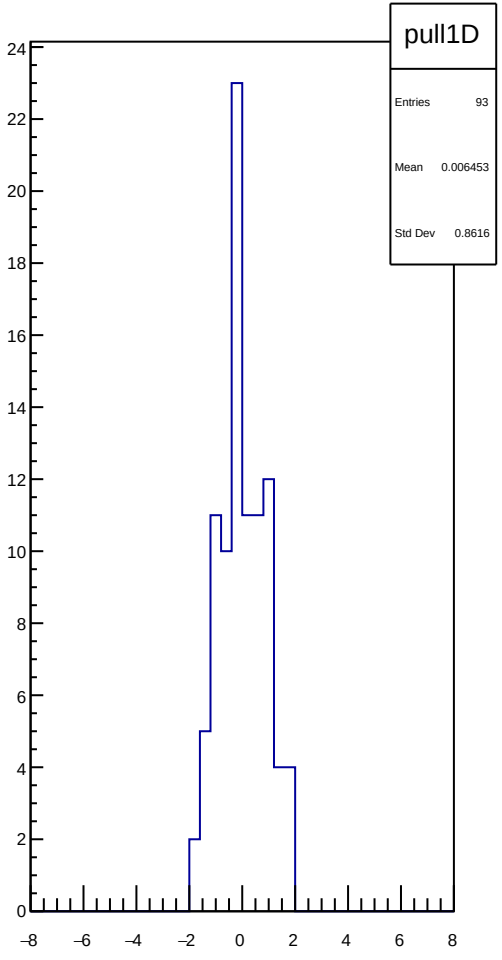

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 155.6 / 92
p0 −21.58 ± 0.1653
pull
Entries 93
Mean 243.6
Std Dev 0
pull1D
Entries 93
Mean −0.08979
Std Dev 1.29

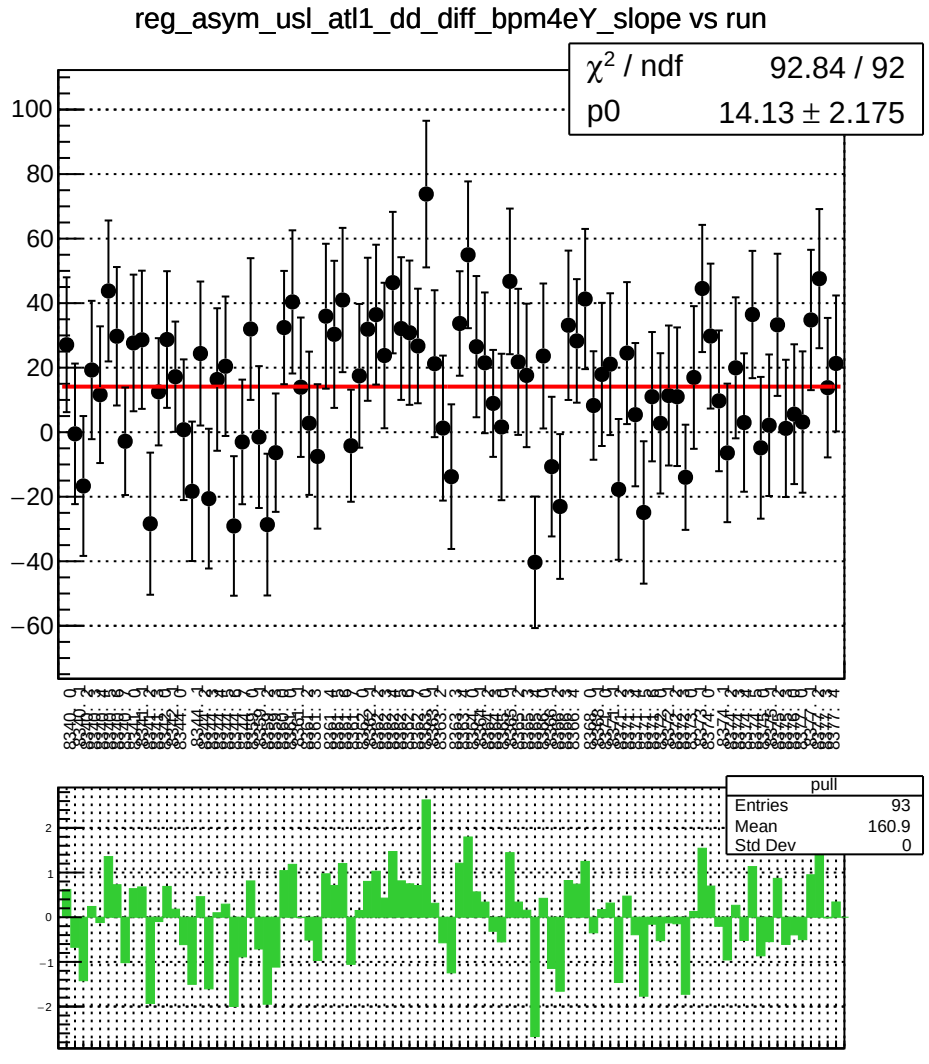

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 70.75 / 92
p0 −34.59 ± 1.058
pull
Entries 93
Mean 106.7
Std Dev 89.24
pull1D
Entries 93
Mean −0.005732
Std Dev 0.8722

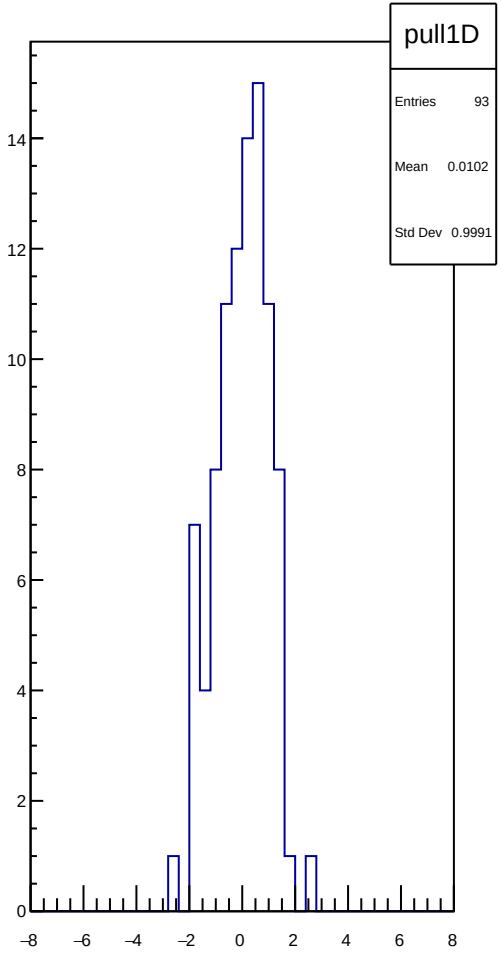

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 93.55 / 92
p0 2.045 ± 2.107
pull
Entries 93
Mean 188.2
Std Dev 0

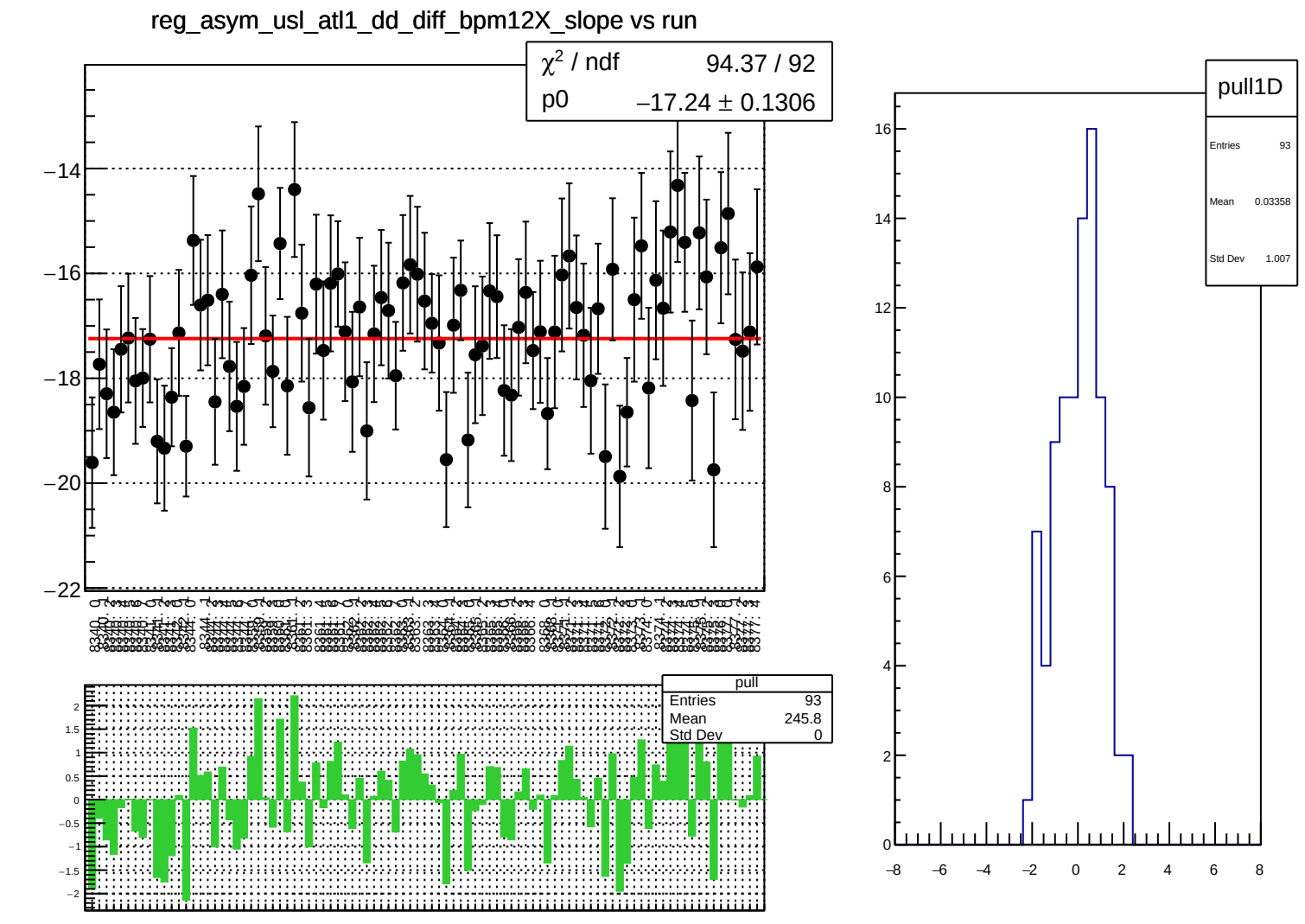

pull1D
Entries 93
Mean −0.009889
Std Dev 1.003

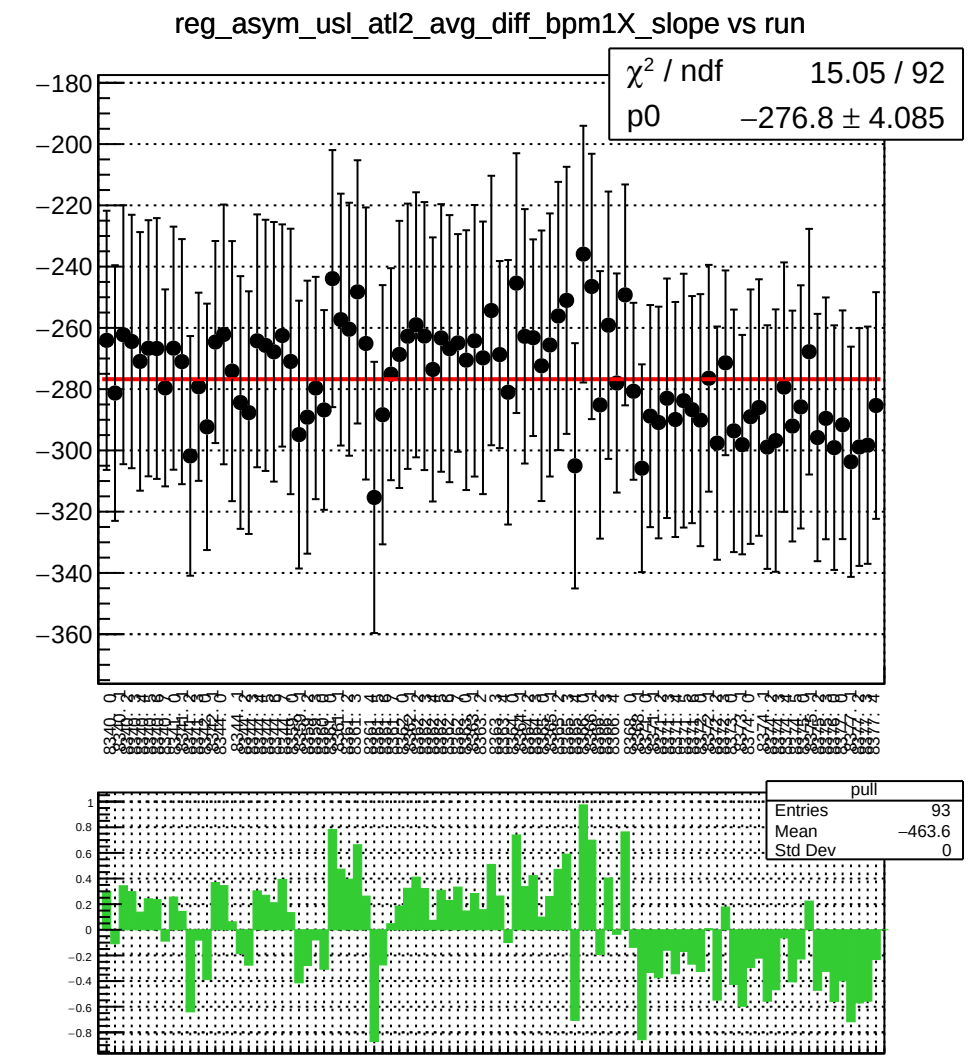

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.04 / 92
p0 −14.47 ± 1.216
pull
Entries 93
Mean −49.86
Std Dev 0

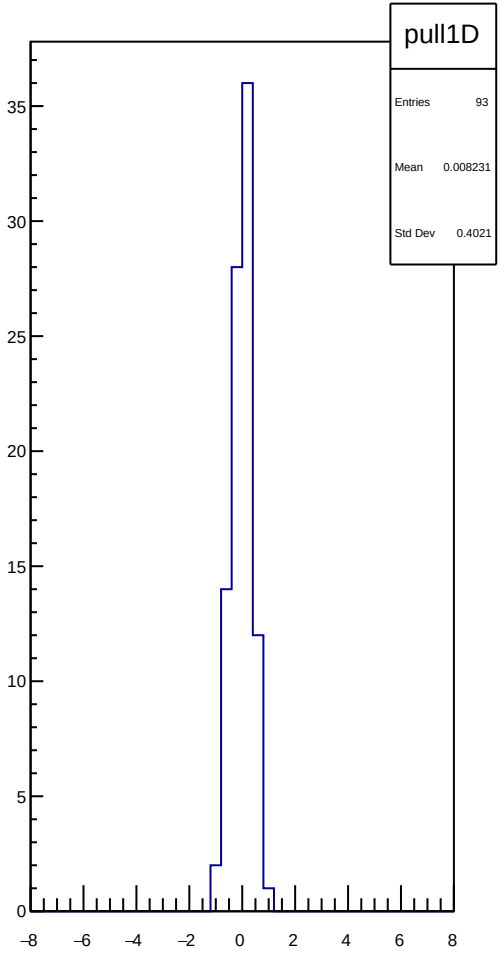

pull1D
Entries 93
Mean 0.006453
Std Dev 0.8616

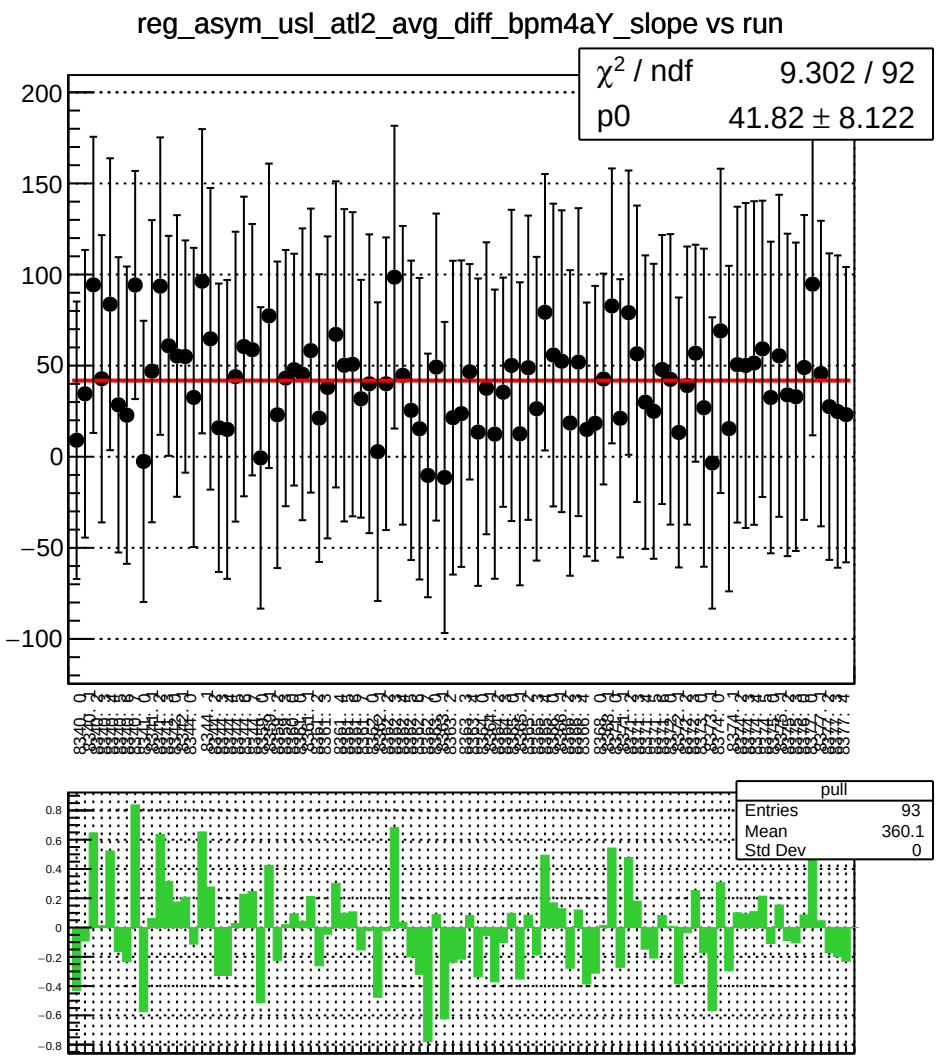

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.84 / 92
p0 14.13 ± 2.175
pull
Entries 93
Mean 160.9
Std Dev 0

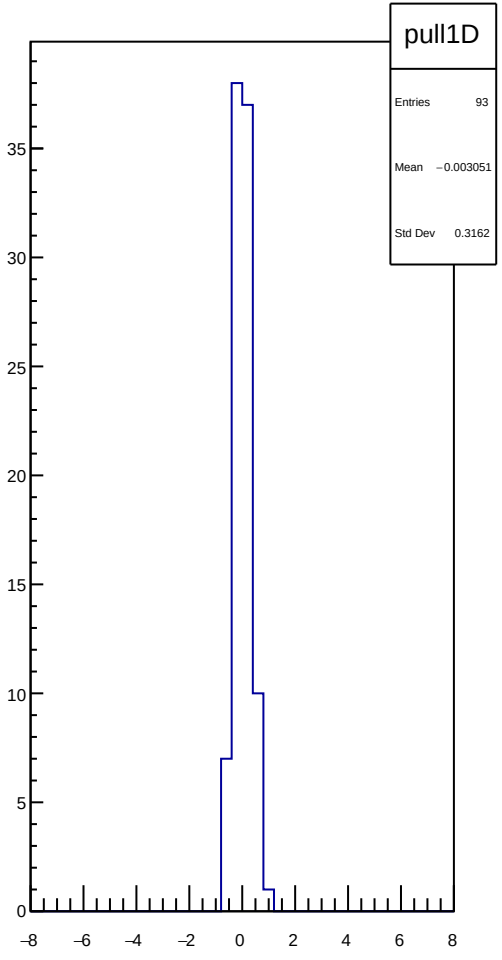

pull1D
Entries 93
Mean 0.0102
Std Dev 0.9991

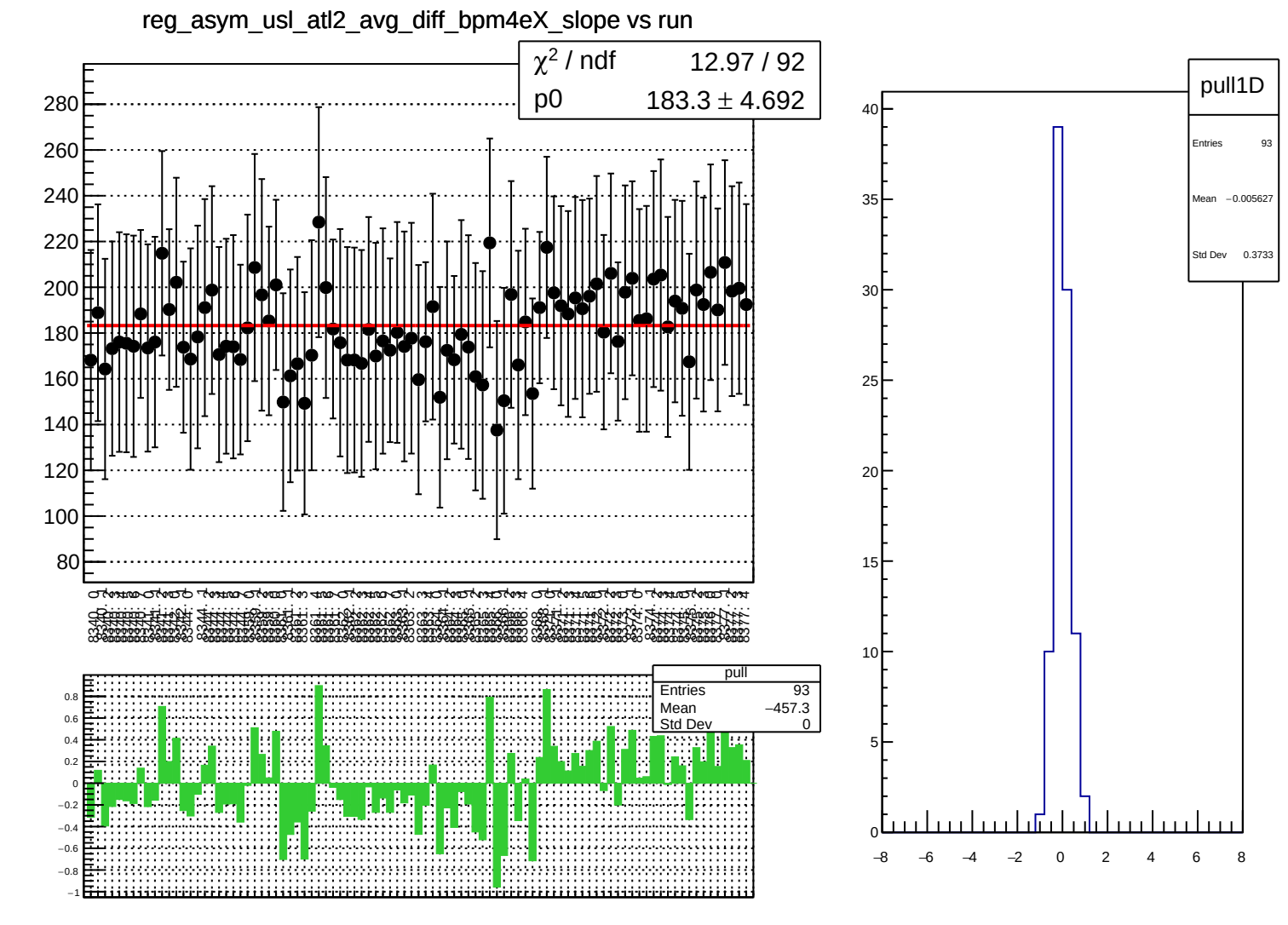

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 94.37 / 92
p0 −17.24 ± 0.1306
−14
−16
−18
−20
−22
pull
Entries 93
Mean 245.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03358
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

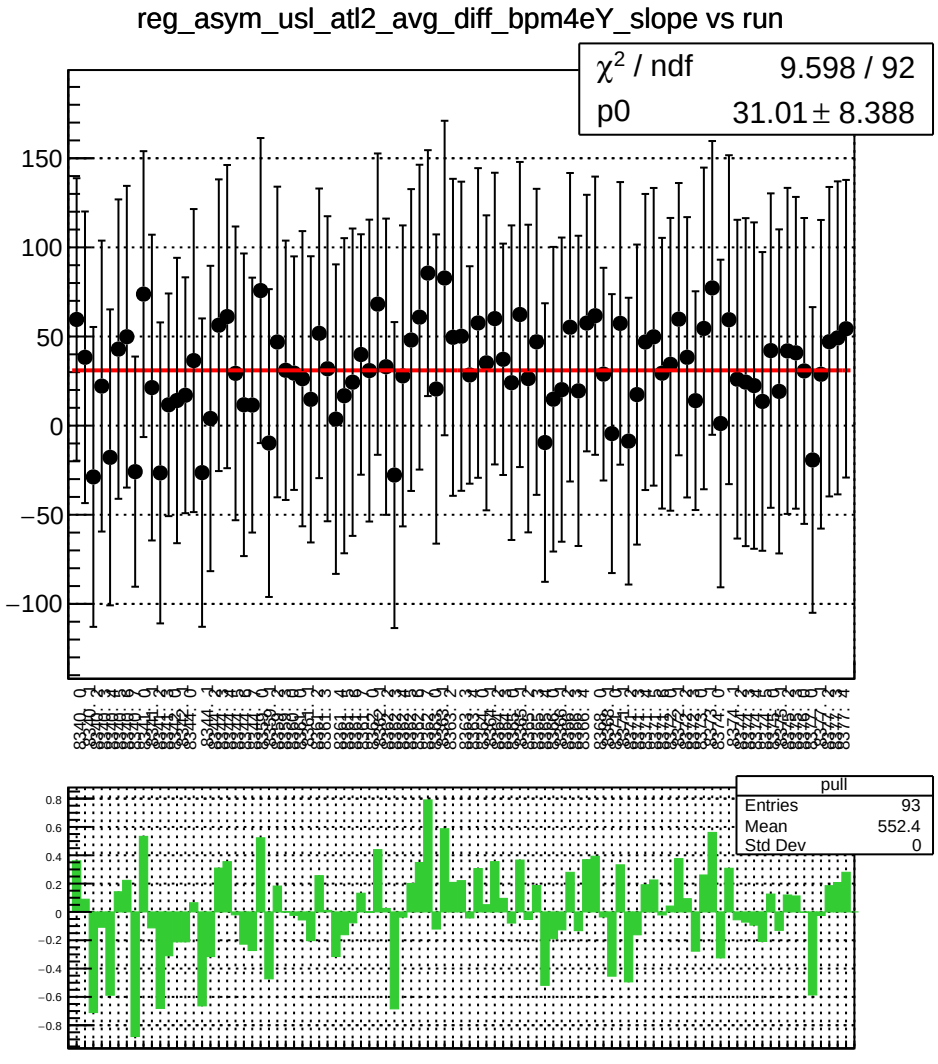

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 15.05 / 92
p0 −276.8 ± 4.085
pull
Entries 93
Mean −463.6
Std Dev 0

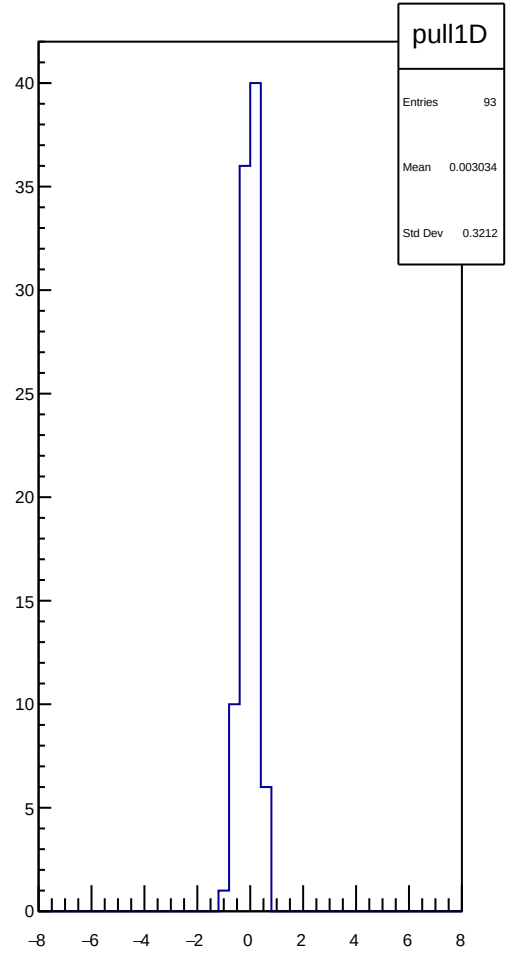

pull1D
Entries 93
Mean 0.008231
Std Dev 0.4021

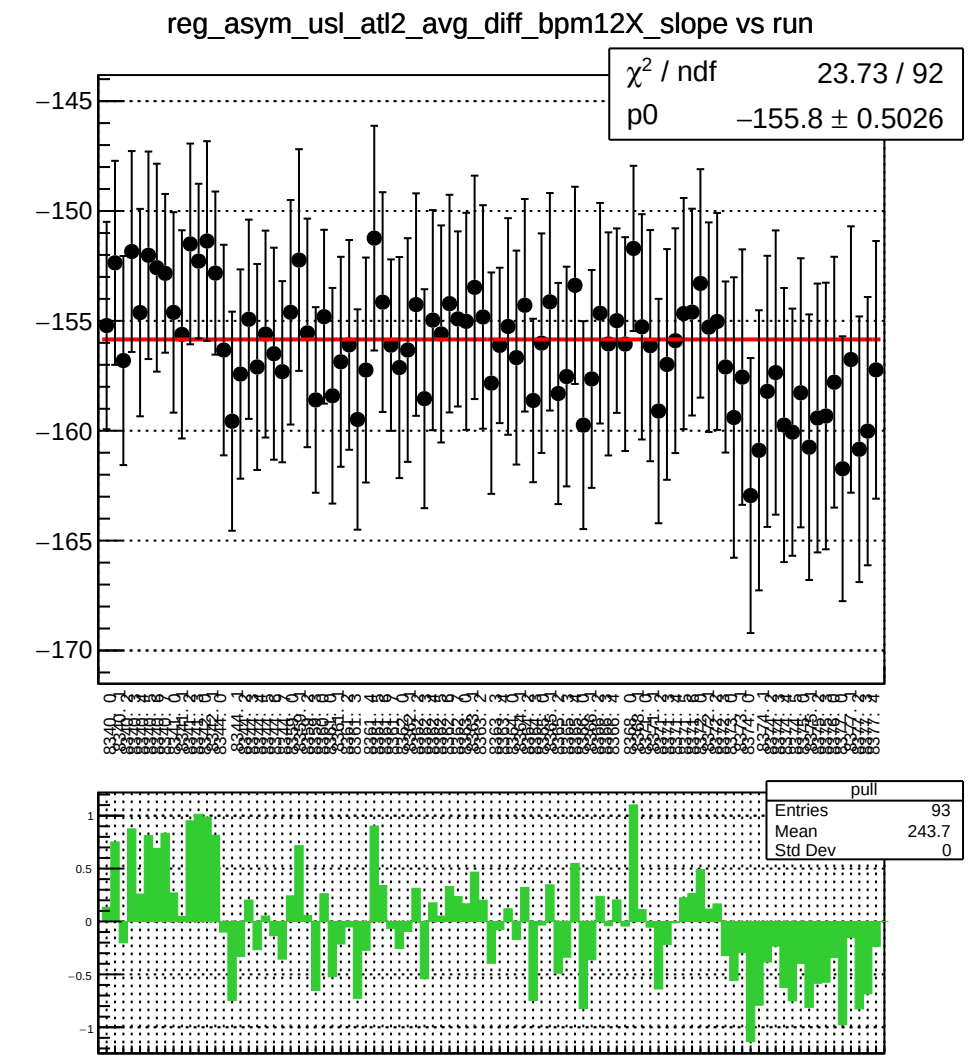

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.302 / 92
p0 41.82 ± 8.122
200
150
100
50
0
−50
−100
pull
Entries 93
Mean 360.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

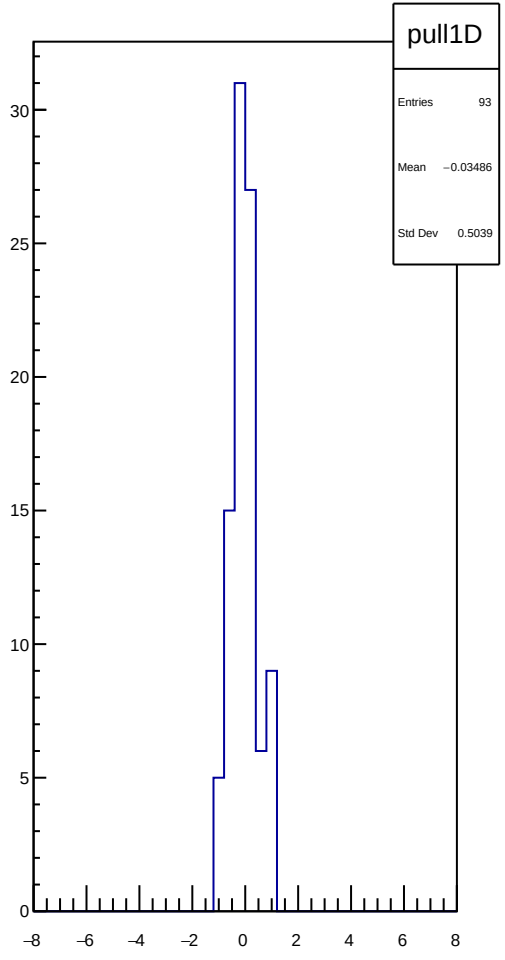

pull1D
Entries 93
Mean −0.003051
Std Dev 0.3162
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

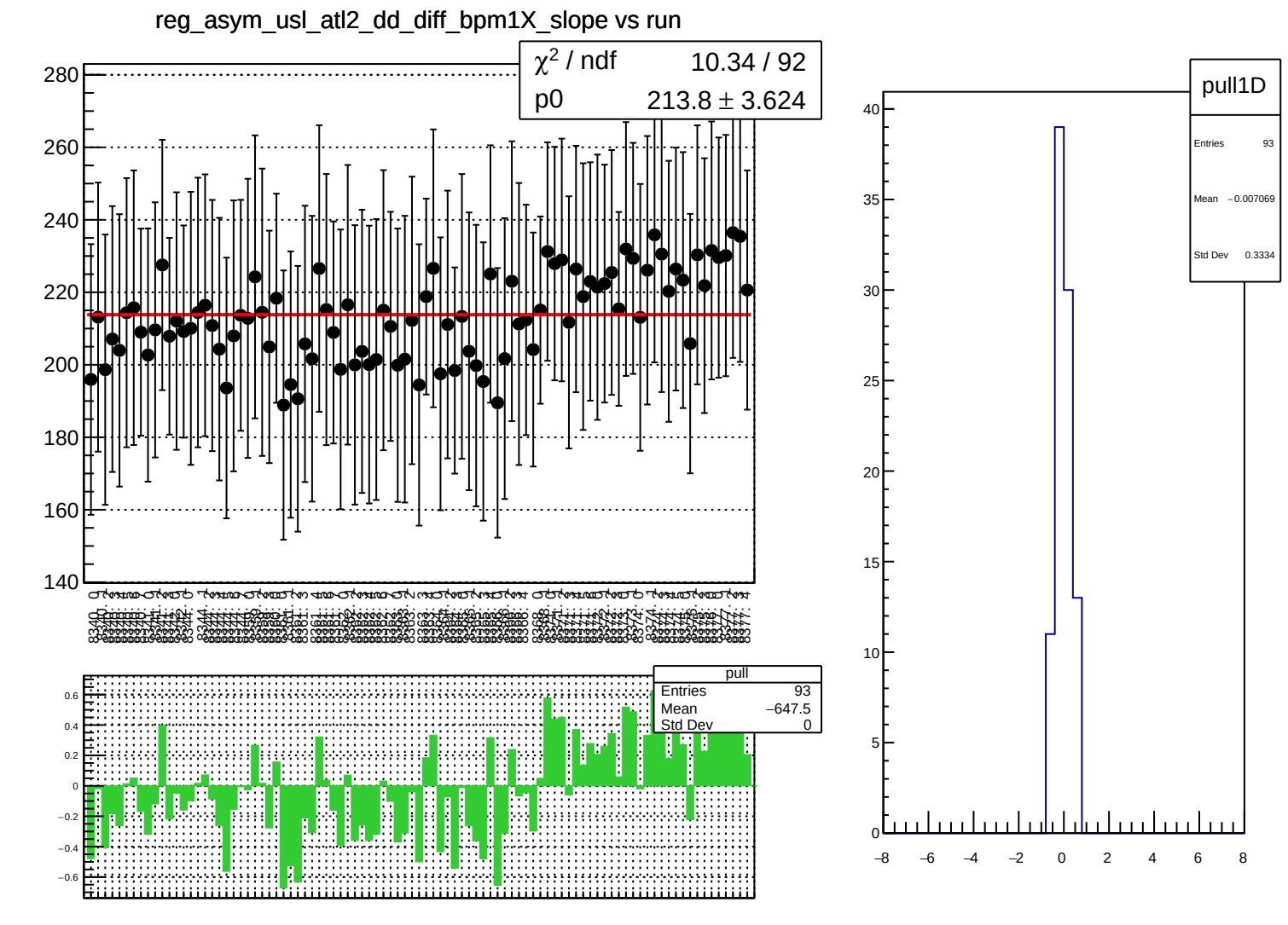

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.97 / 92
p0 183.3 ± 4.692
pull
Entries 93
Mean −457.3
Std Dev 0
pull1D
Entries 93
Mean −0.005627
Std Dev 0.3733

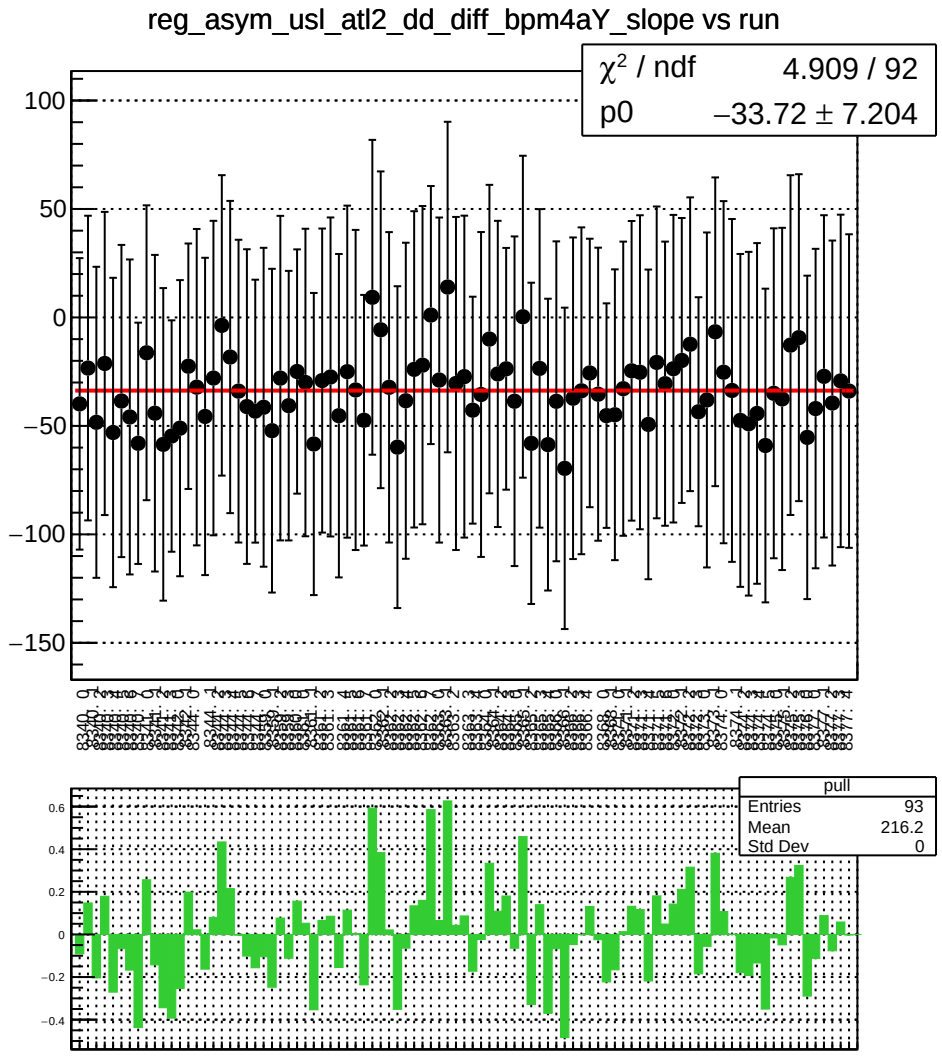

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.598 / 92
p0 31.01 ± 8.388
150
100
50
0
−50
−100
pull
Entries 93
Mean 552.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

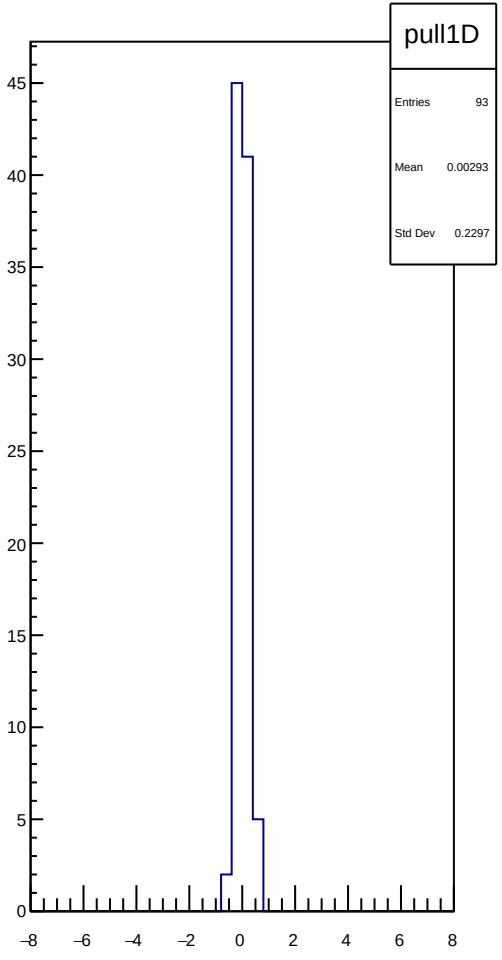

pull1D
Entries 93
Mean 0.003034
Std Dev 0.3212
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

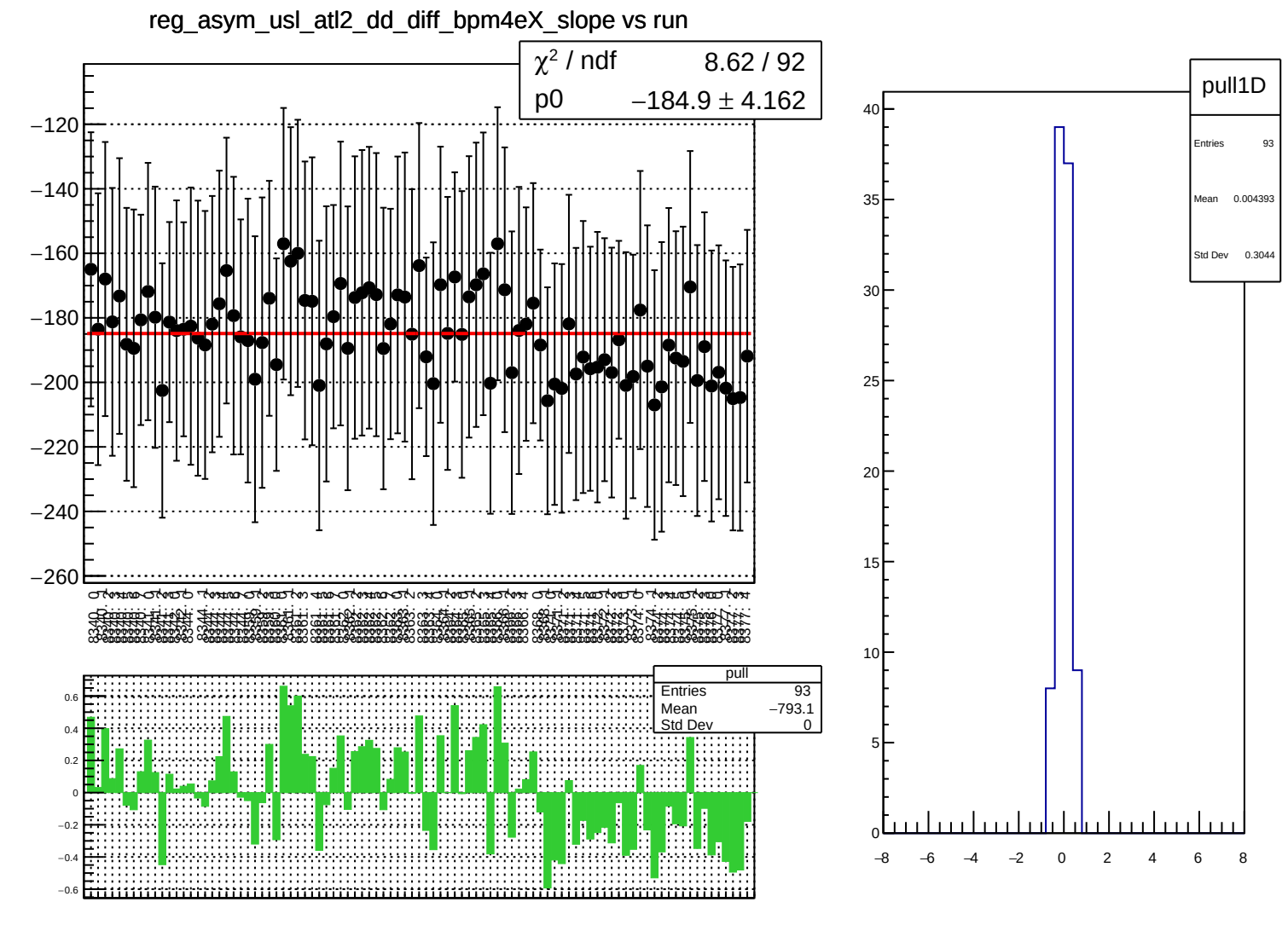

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 23.73 / 92
p0 −155.8 ± 0.5026
−145
−150
−155
−160
−165
−170
pull
Entries 93
Mean 243.7
Std Dev 0
1
0.5
0
−0.5
−1

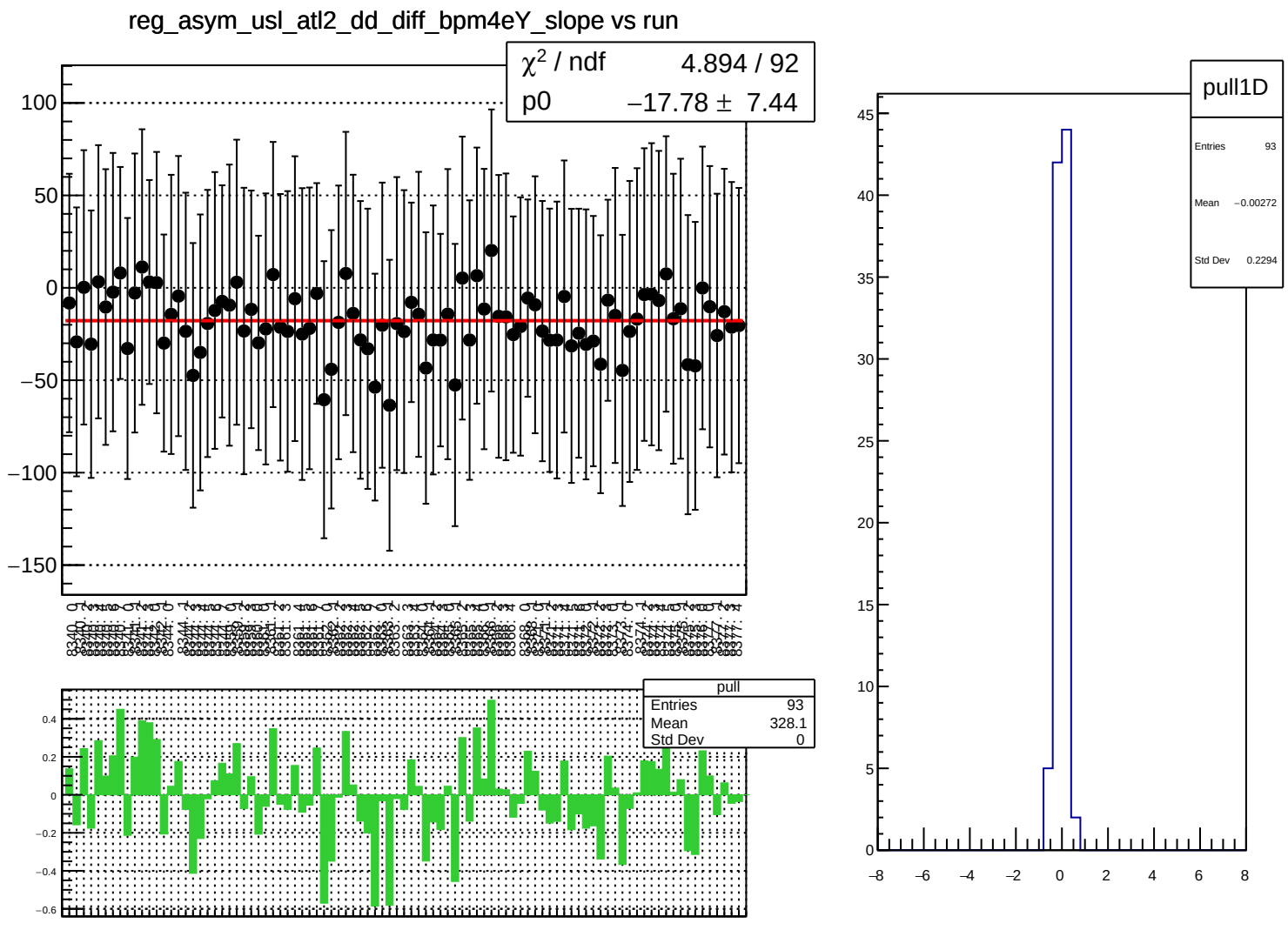

pull1D
Entries 93
Mean −0.03486
Std Dev 0.5039
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

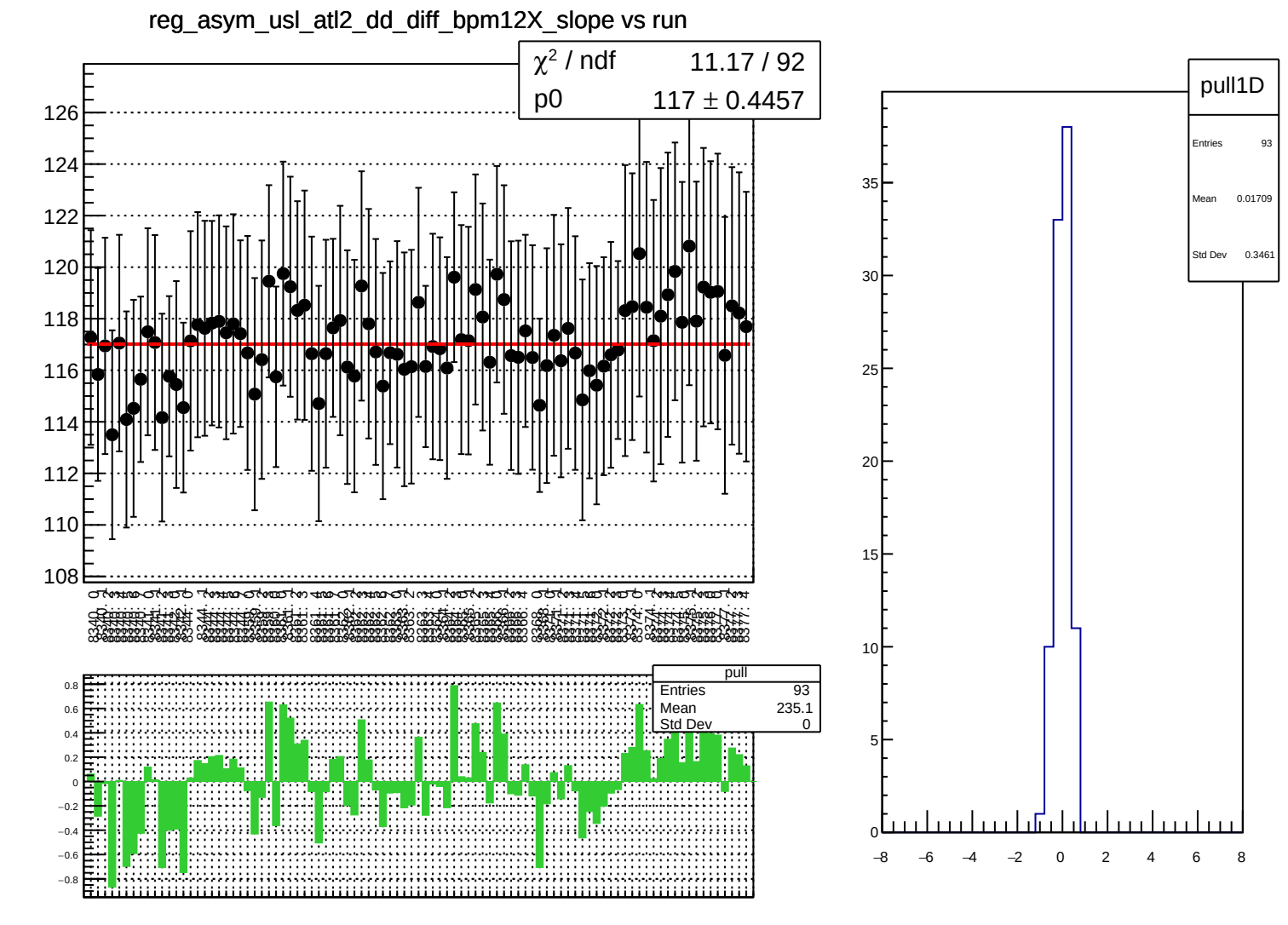

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.34 / 92
p0 213.8 ± 3.624
280
260
240
220
200
180
160
140
pull
Entries 93
Mean −647.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.007069
Std Dev 0.3334
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

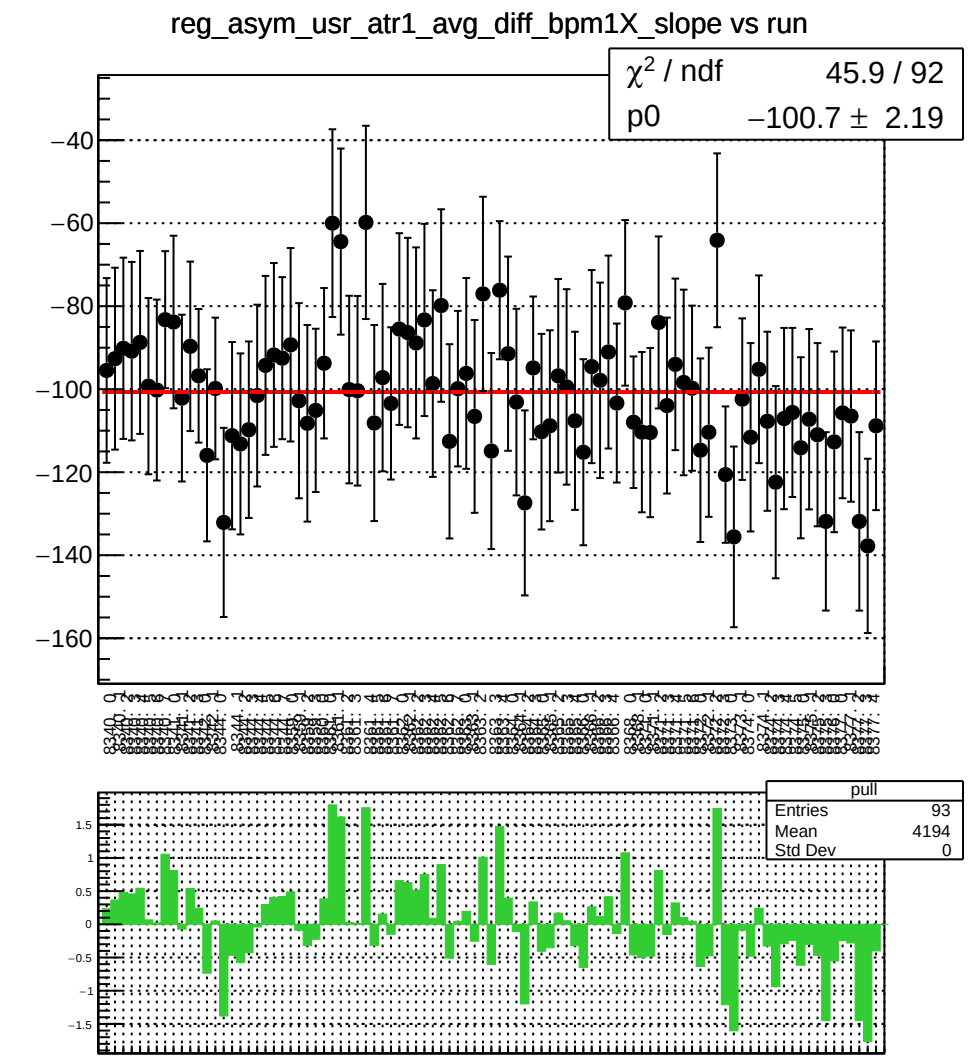

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.909 / 92
p0 −33.72 ± 7.204
pull
Entries 93
Mean 216.2
Std Dev 0

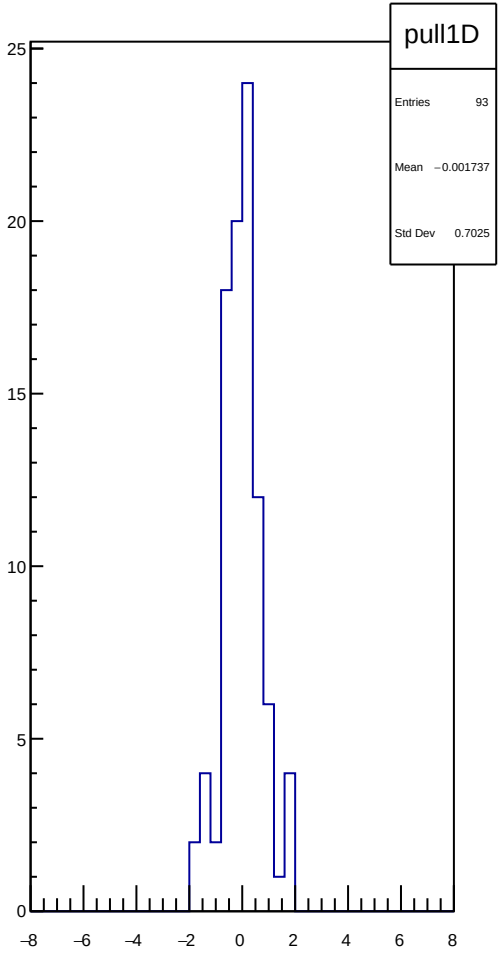

pull1D
Entries 93
Mean 0.00293
Std Dev 0.2297

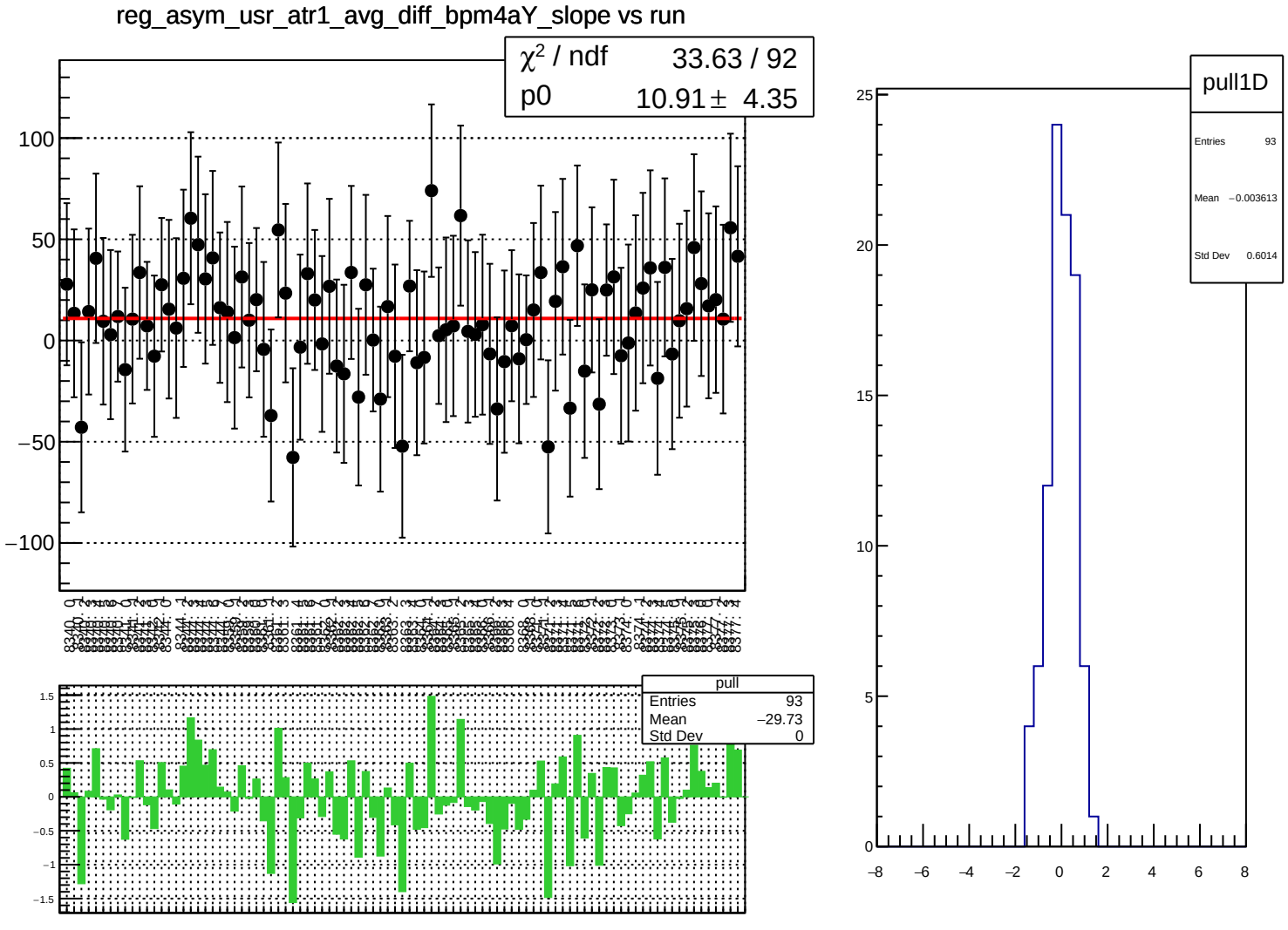

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.62 / 92
p0 −184.9 ± 4.162
−120
−140
−160
−180
−200
−220
−240
−260
pull
Entries 93
Mean −793.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.004393
Std Dev 0.3044
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

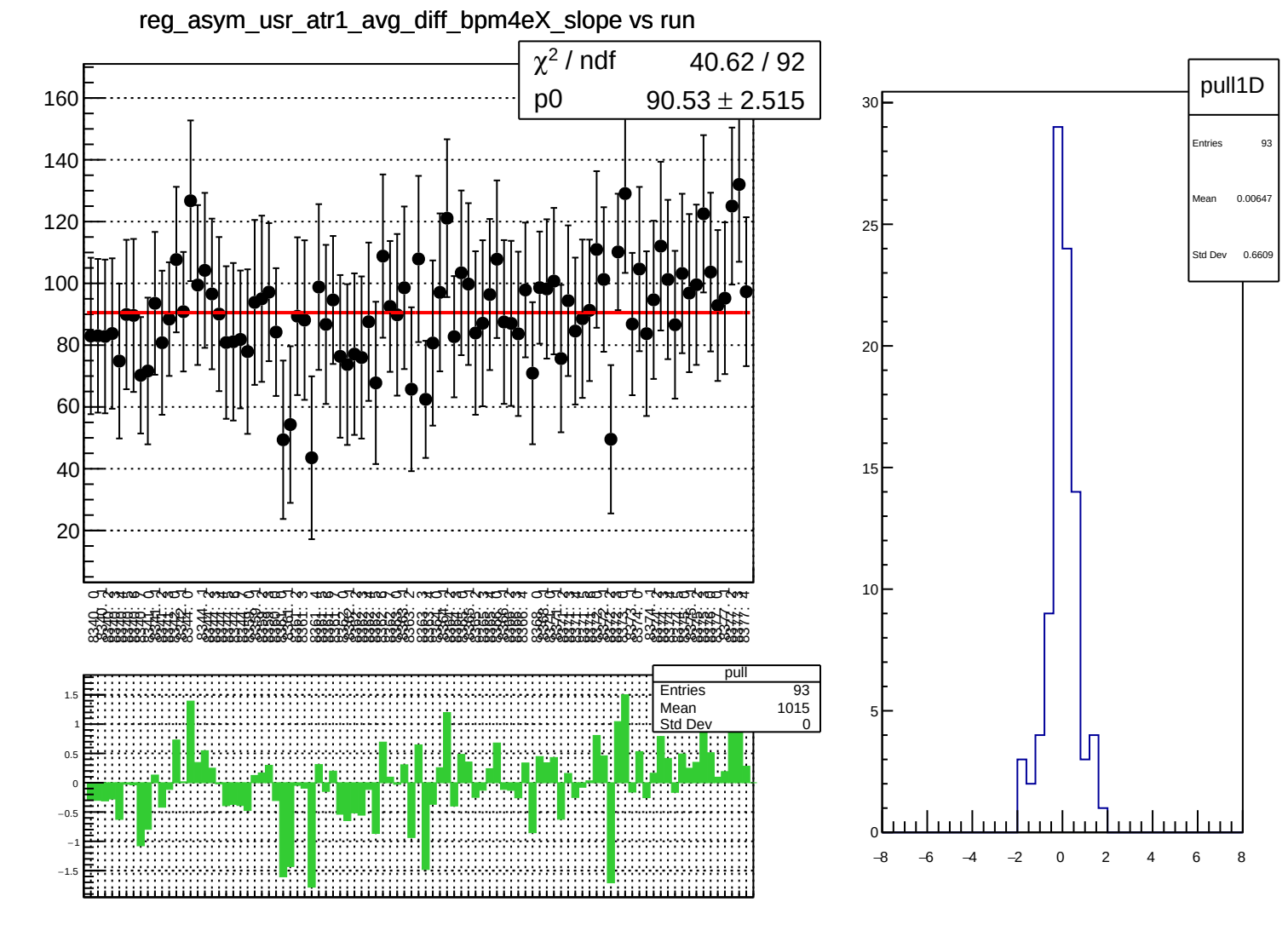

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.894 / 92
p0 −17.78 ± 7.44
pull
Entries 93
Mean 328.1
Std Dev 0
pull1D
Entries 93
Mean −0.00272
Std Dev 0.2294

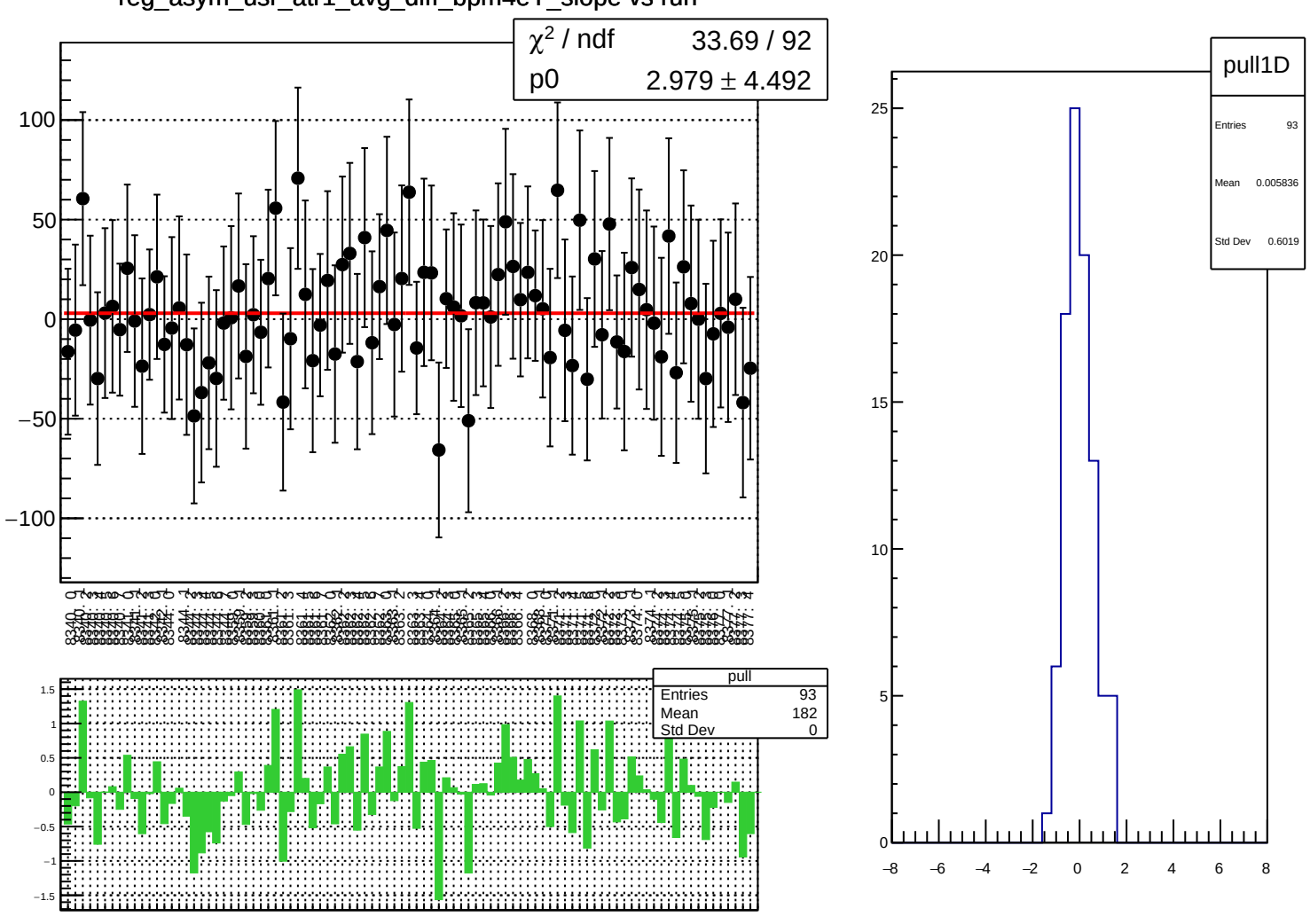

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 11.17 / 92
p0 117 ± 0.4457
pull
Entries 93
Mean 235.1
Std Dev 0
pull1D
Entries 93
Mean 0.01709
Std Dev 0.3461

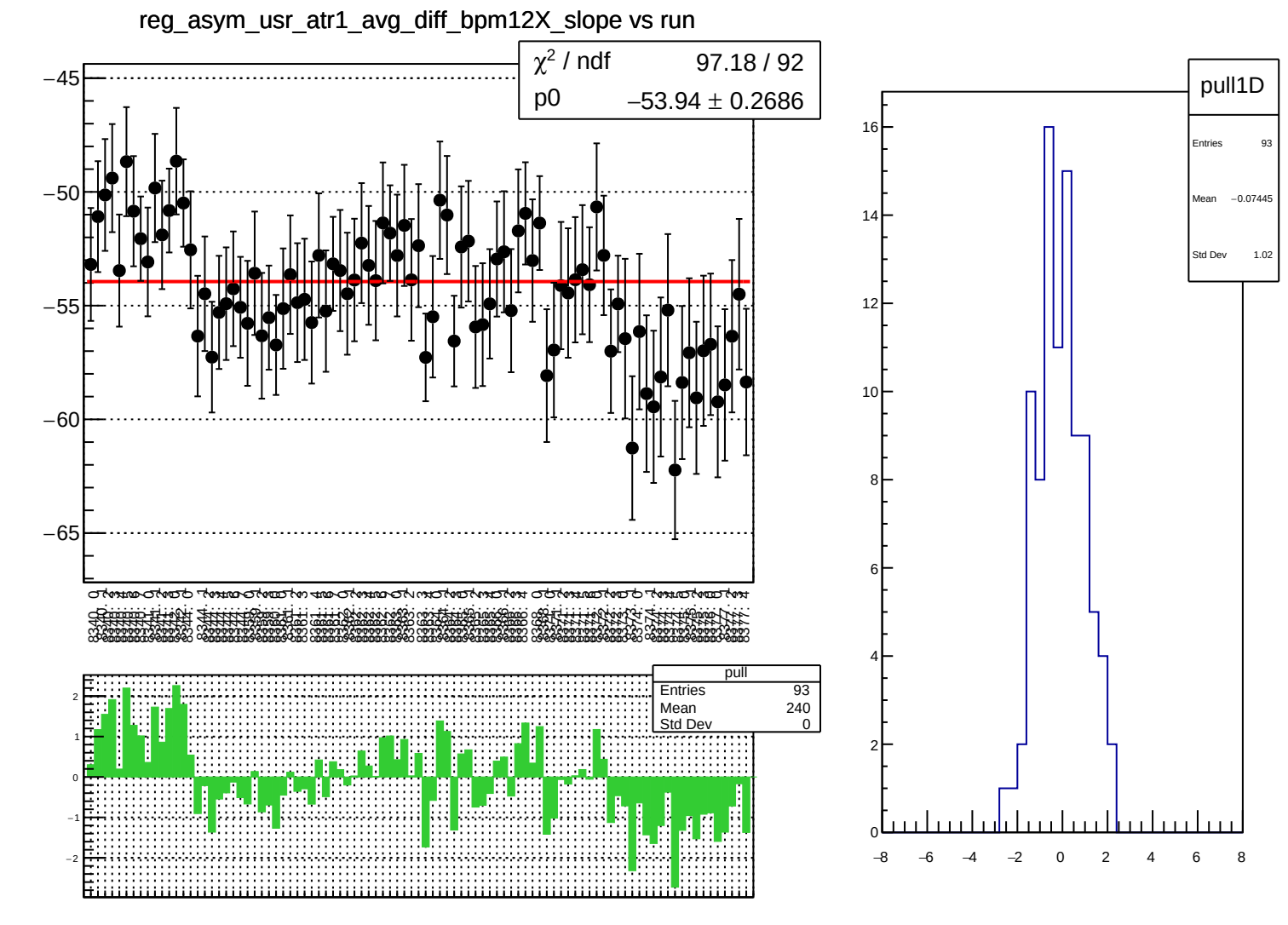

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 45.9 / 92
p0 −100.7 ± 2.19
pull
Entries 93
Mean 4194
Std Dev 0

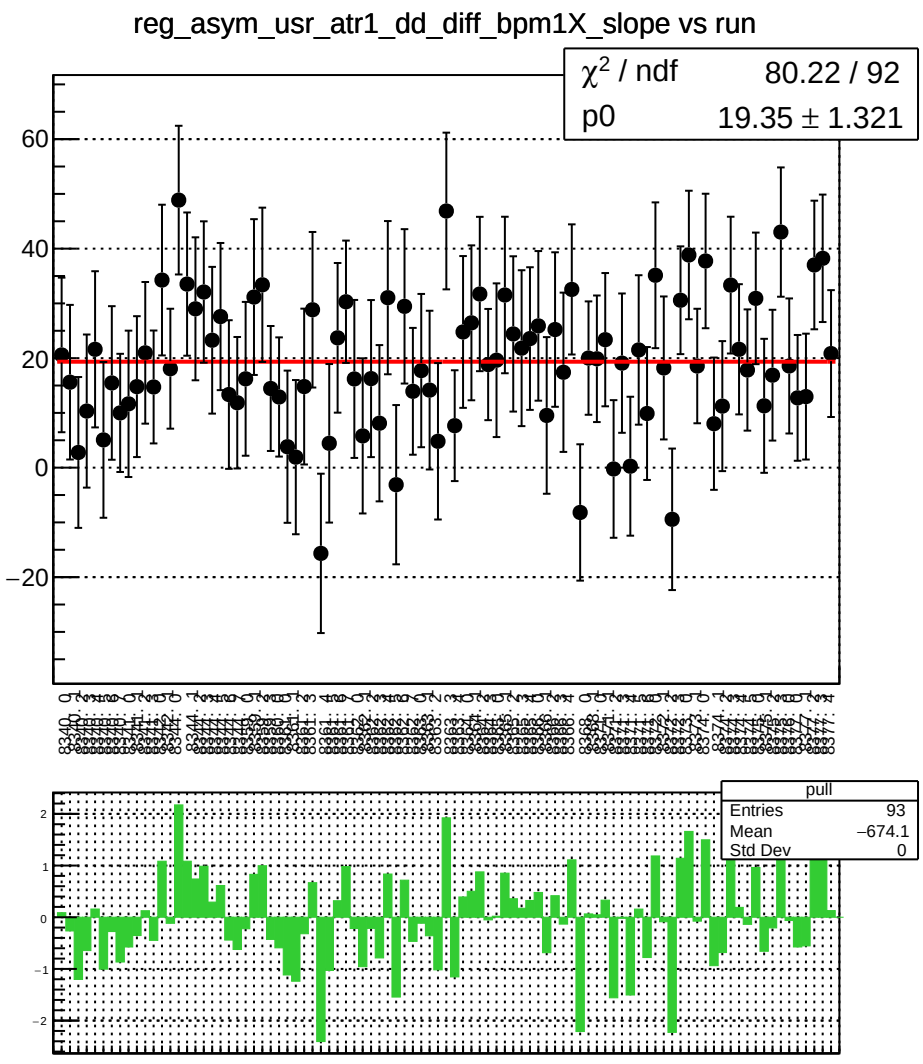

pull1D
Entries 93
Mean −0.001737
Std Dev 0.7025

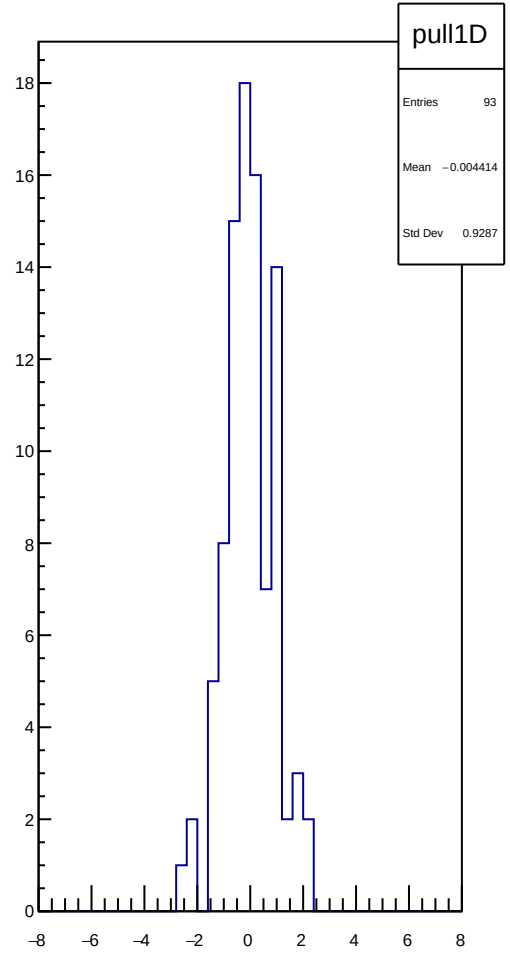

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.63 / 92
p0 10.91 ± 4.35
100
50
0
−50
−100
pull
Entries 93
Mean −29.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.003613
Std Dev 0.6014
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

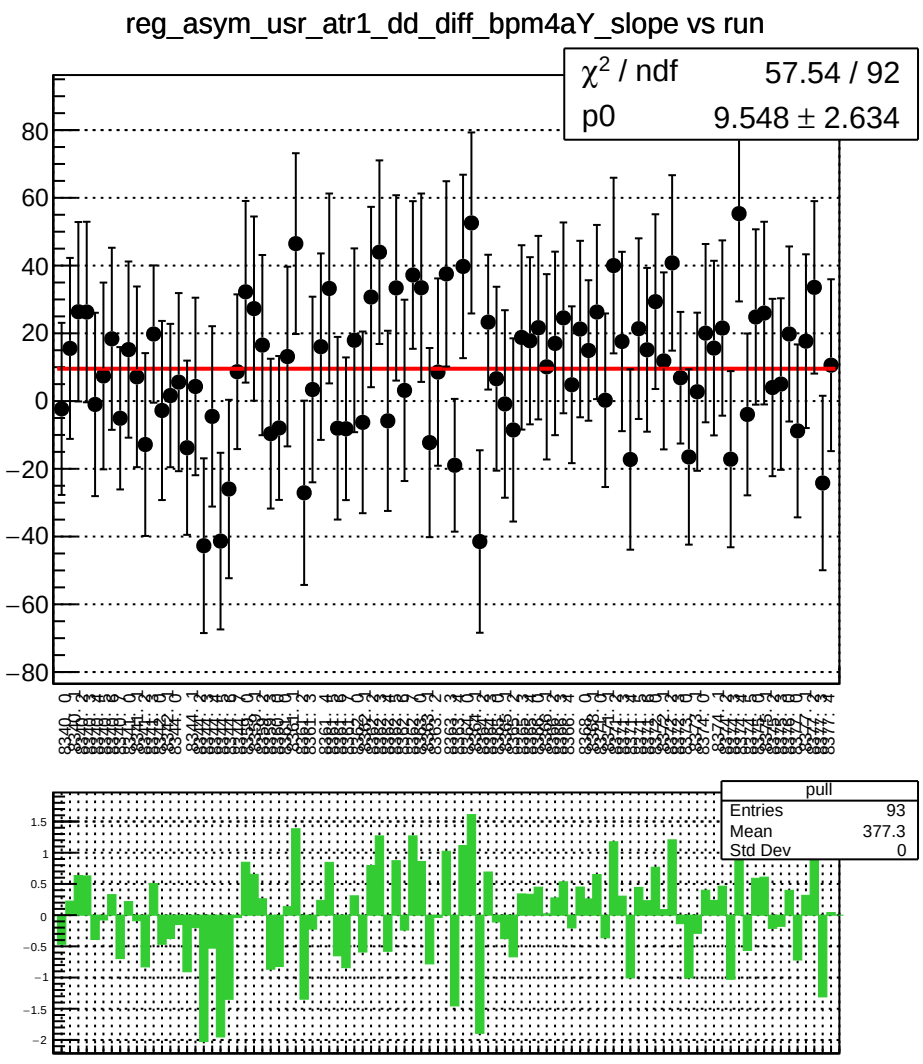

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.62 / 92
p0 90.53 ± 2.515
160
140
120
100
80
60
40
20
pull
Entries 93
Mean 1015
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.00647
Std Dev 0.6609
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

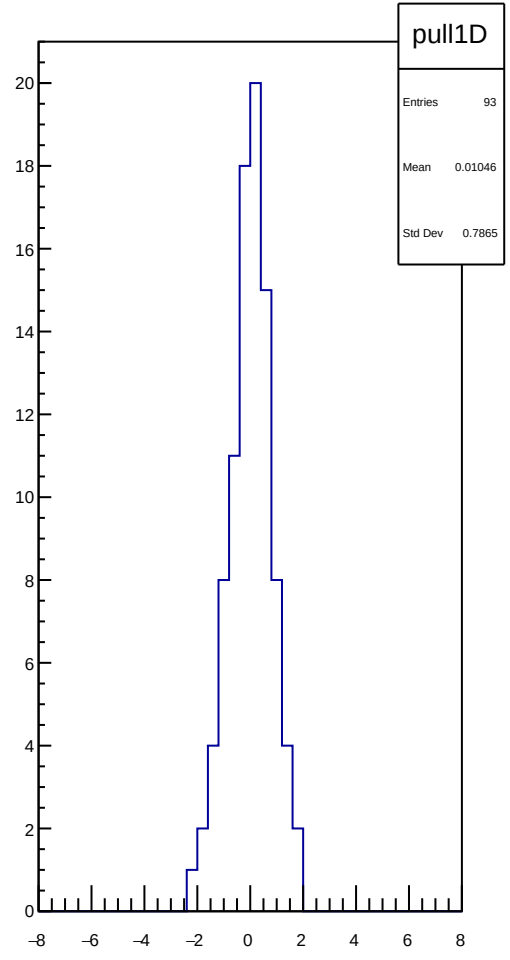

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.69 / 92
p0 2.979 ± 4.492
100
50
0
−50
−100
pull
Entries 93
Mean 182
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.005836
Std Dev 0.6019
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

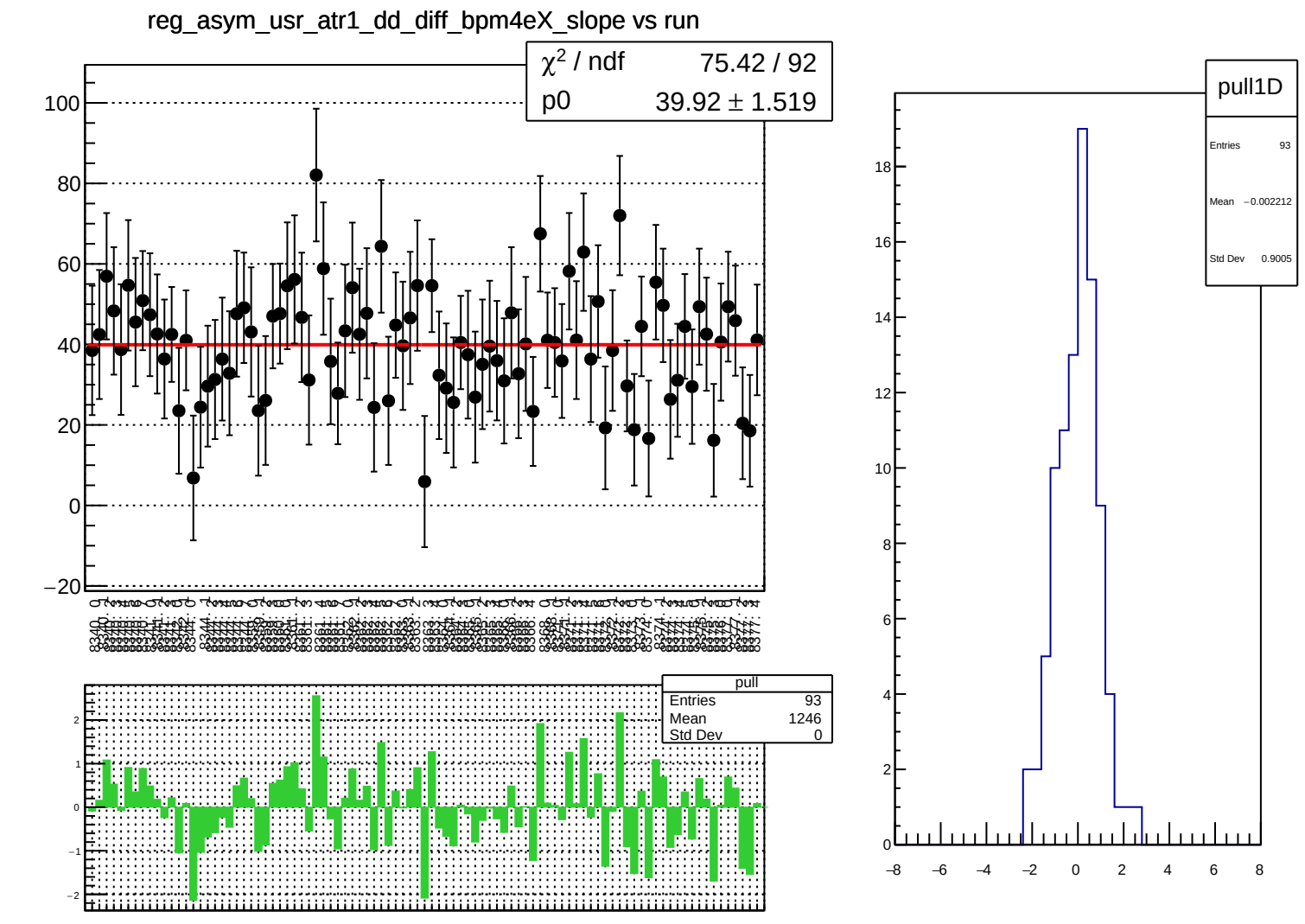

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 97.18 / 92
p0 −53.94 ± 0.2686
−45
−50
−55
−60
−65
pull
Entries 93
Mean 240
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.07445
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

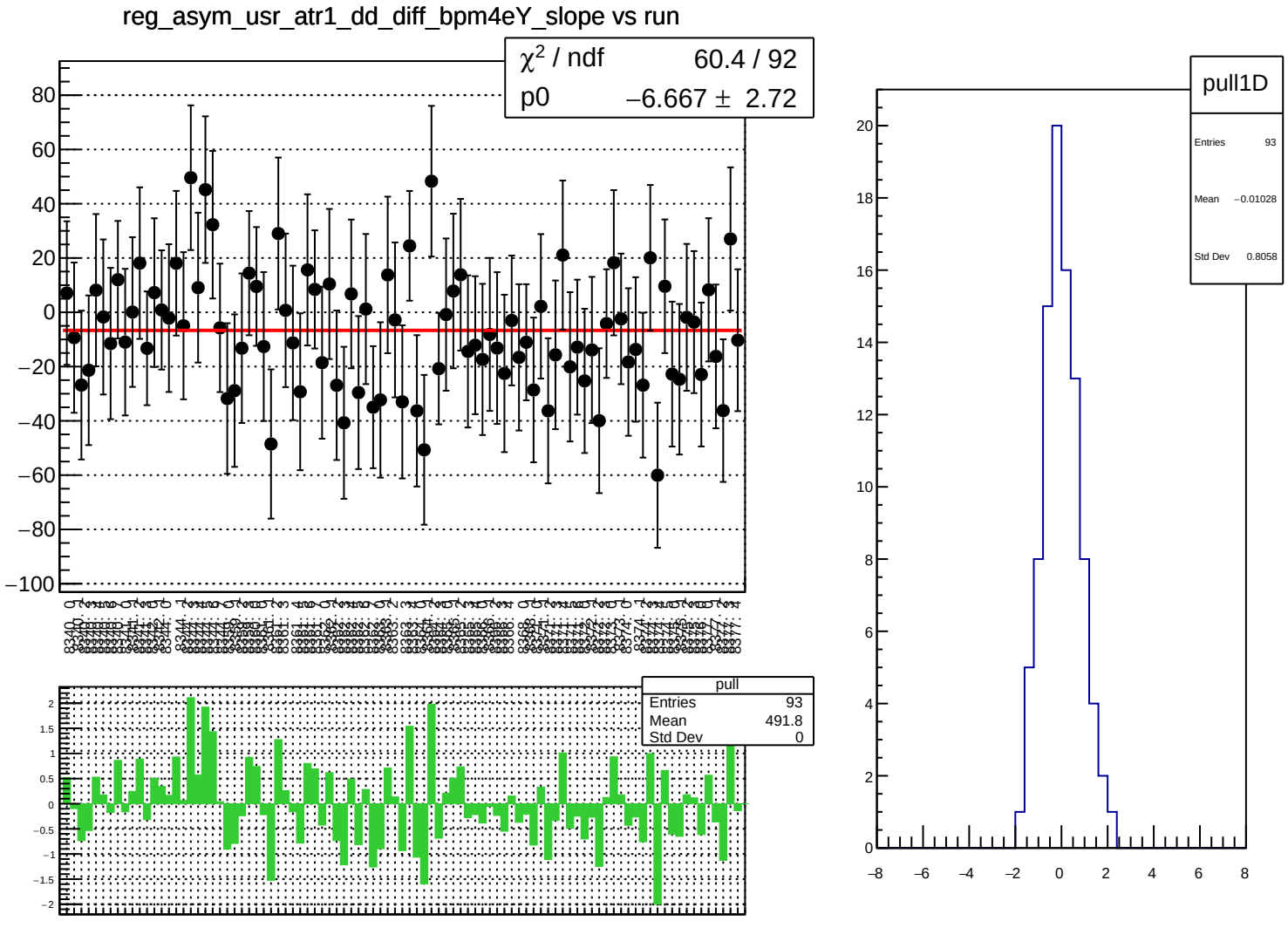

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 80.22 / 92
p0 19.35 ± 1.321
60
40
20
0
−20
pull
Entries 93
Mean −674.1
Std Dev 0
2
1
0
−1
−2

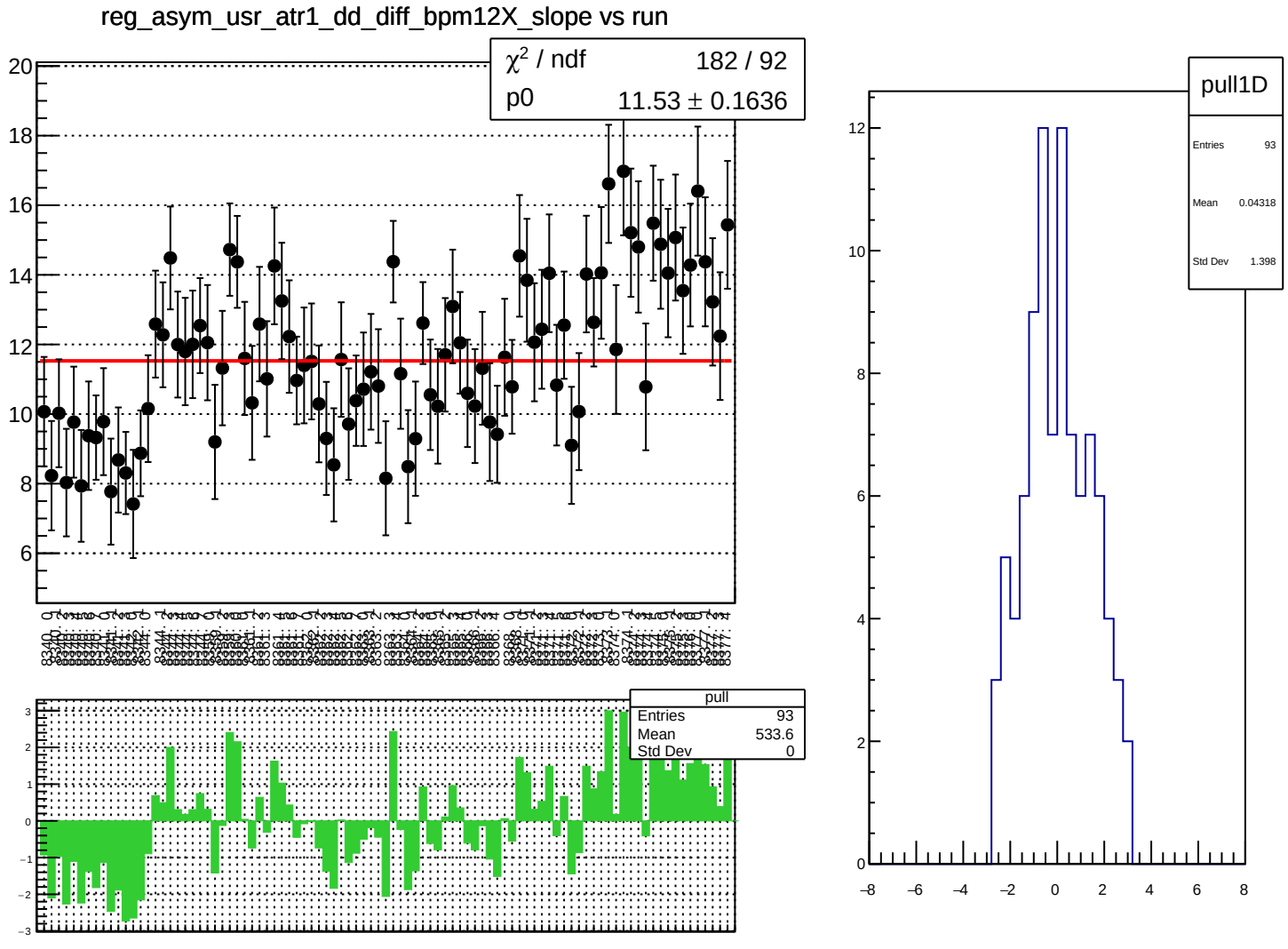

pull1D
Entries 93
Mean −0.004414
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

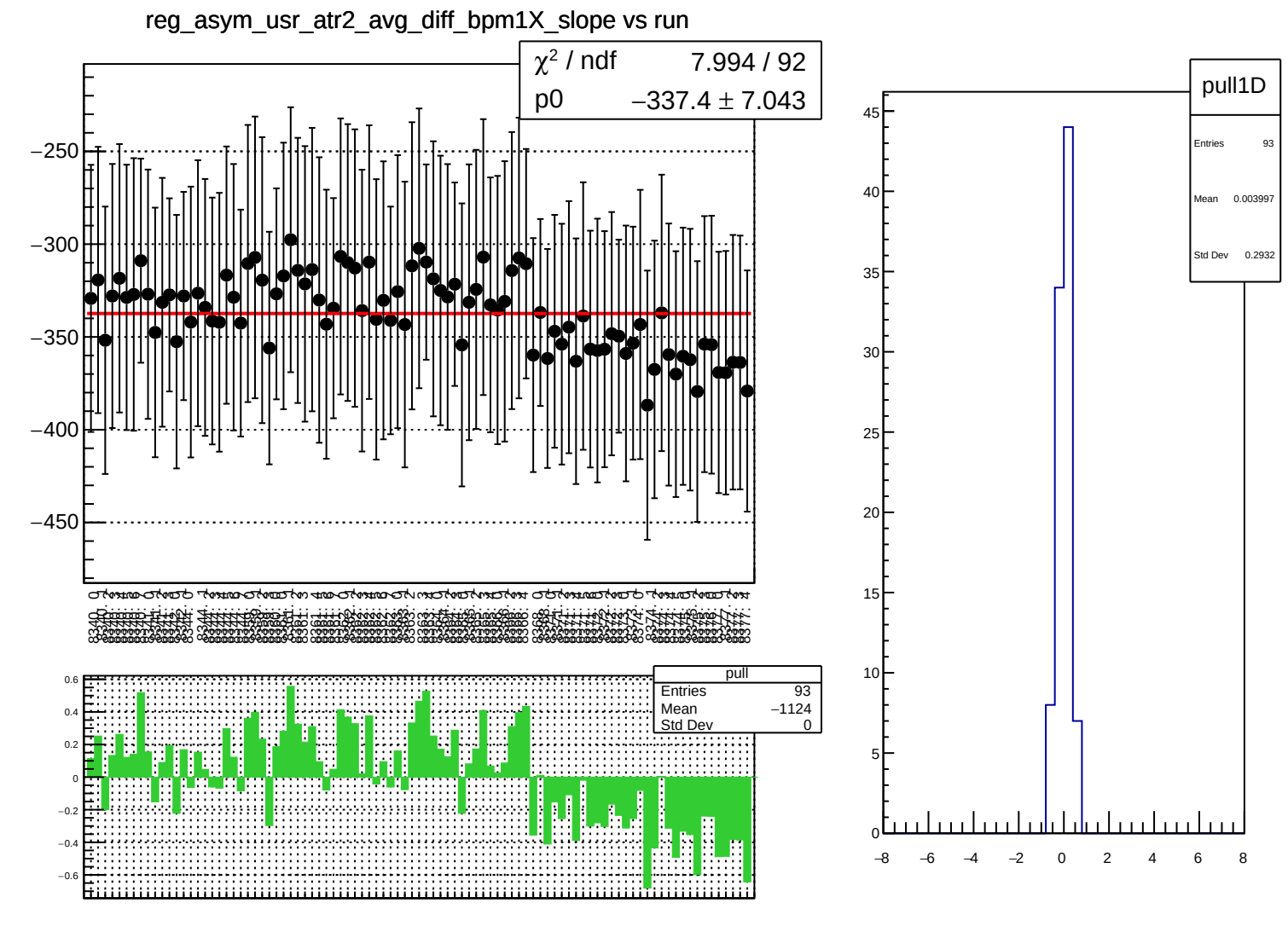

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.54 / 92
p0 9.548 ± 2.634
pull
Entries 93
Mean 377.3
Std Dev 0

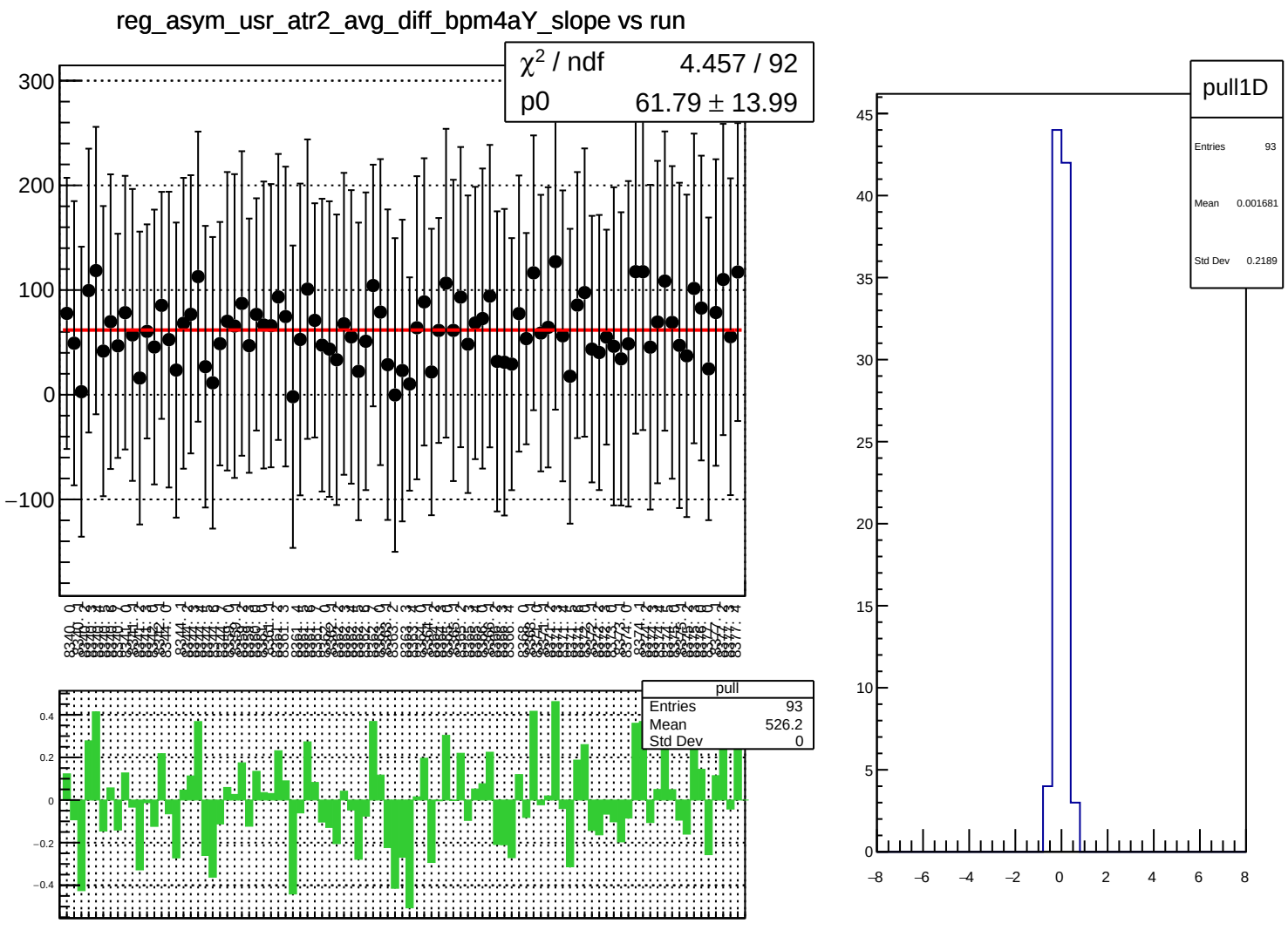

pull1D
Entries 93
Mean 0.01046
Std Dev 0.7865

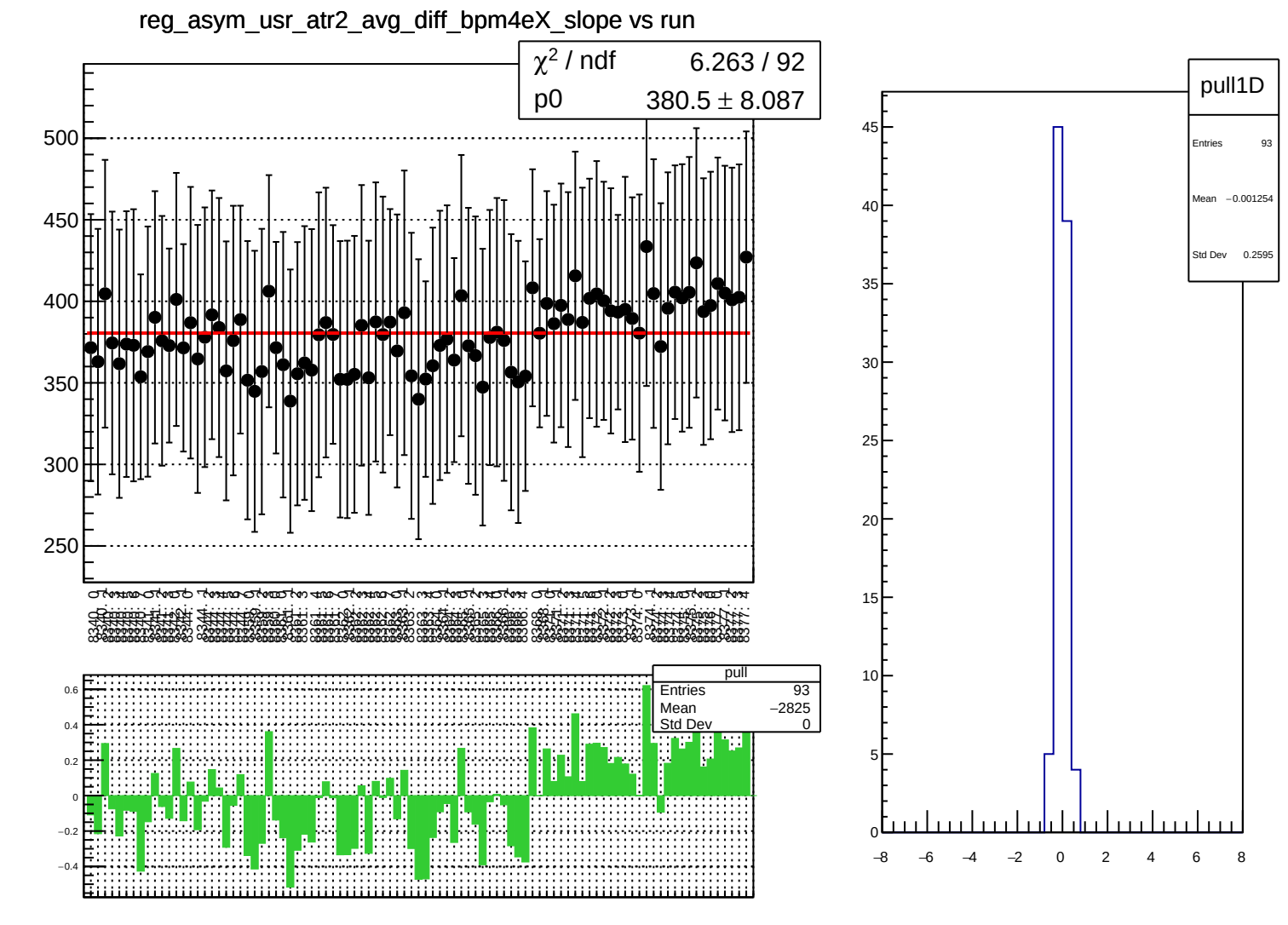

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.42 / 92
p0 39.92 ± 1.519
pull
Entries 93
Mean 1246
Std Dev 0
pull1D
Entries 93
Mean −0.002212
Std Dev 0.9005

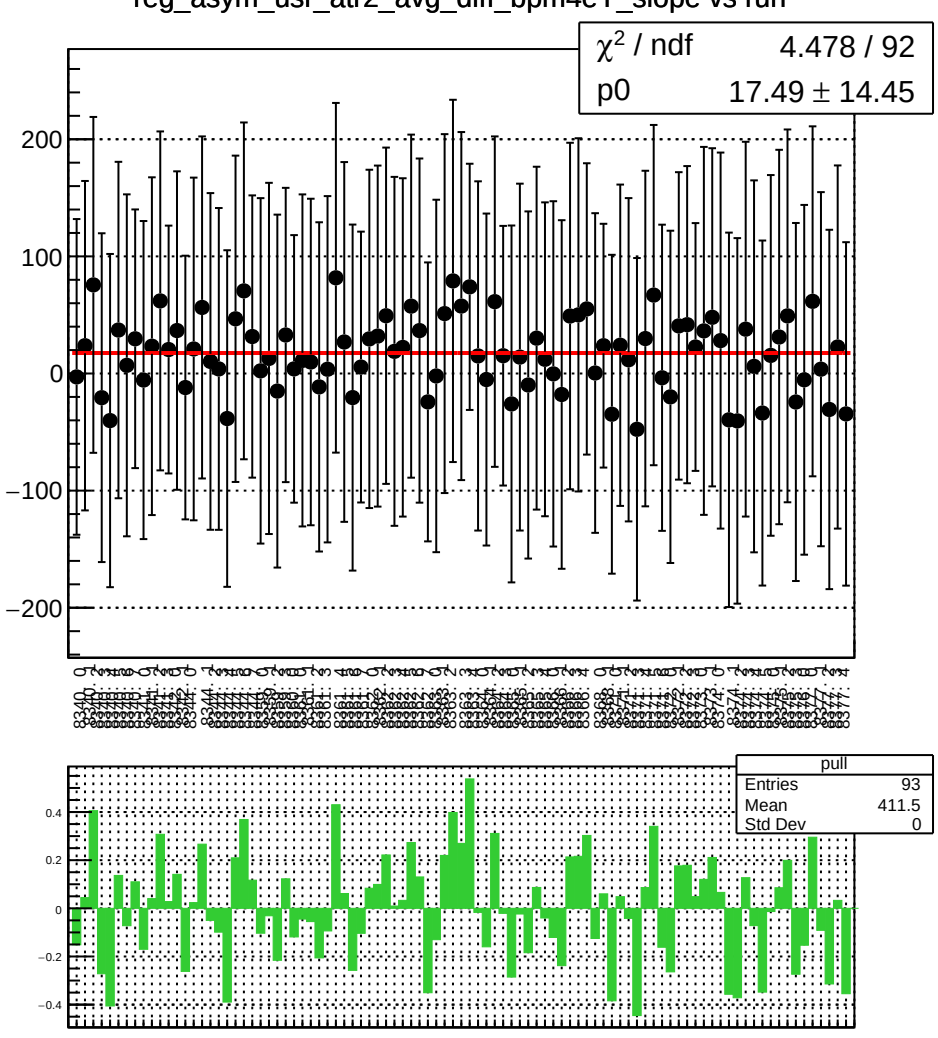

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.4 / 92
p0 −6.667 ± 2.72
pull
Entries 93
Mean 491.8
Std Dev 0
pull1D
Entries 93
Mean −0.01028
Std Dev 0.8058

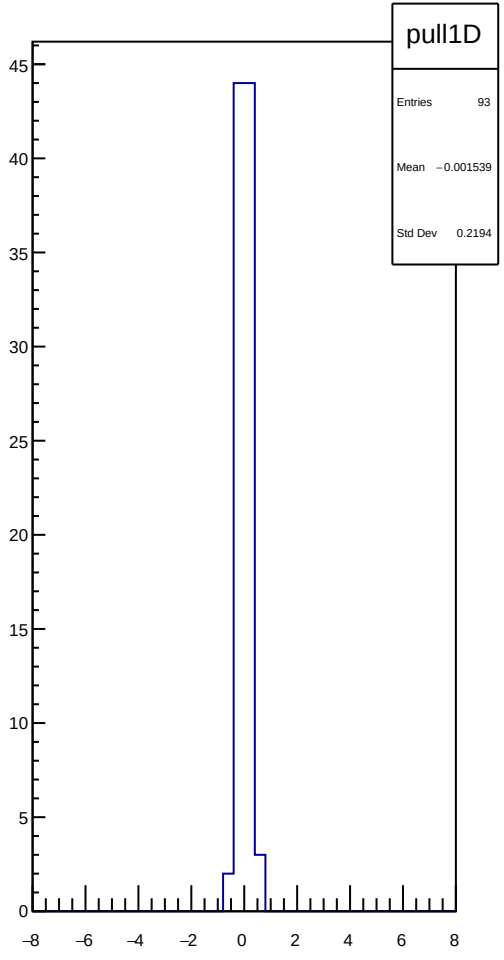

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 182 / 92
p0 11.53 ± 0.1636
pull
Entries 93
Mean 533.6
Std Dev 0
pull1D
Entries 93
Mean 0.04318
Std Dev 1.398

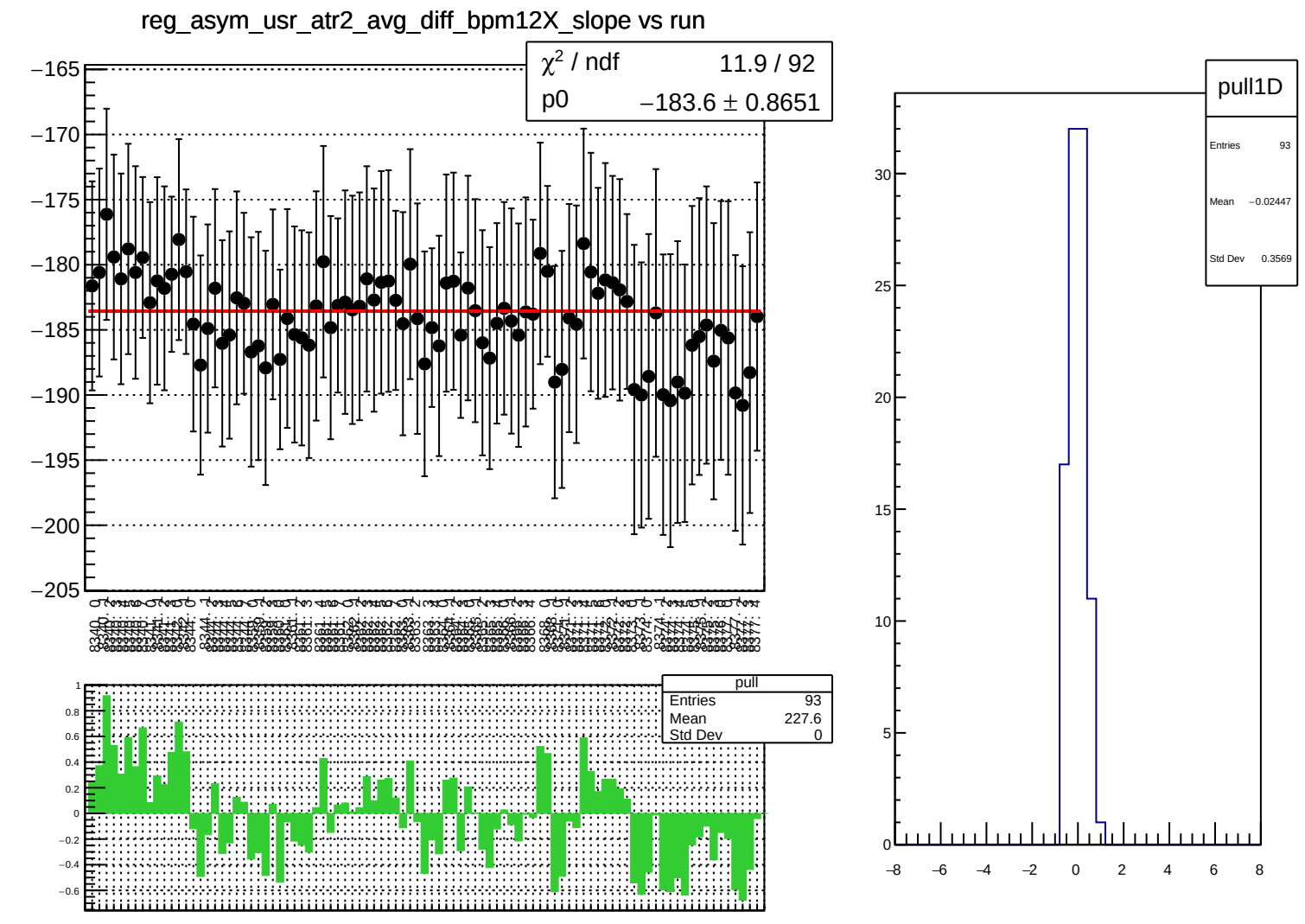

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 7.994 / 92
p0 −337.4 ± 7.043
−250
−300
−350
−400
−450
pull
Entries 93
Mean −1124
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.003997
Std Dev 0.2932
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

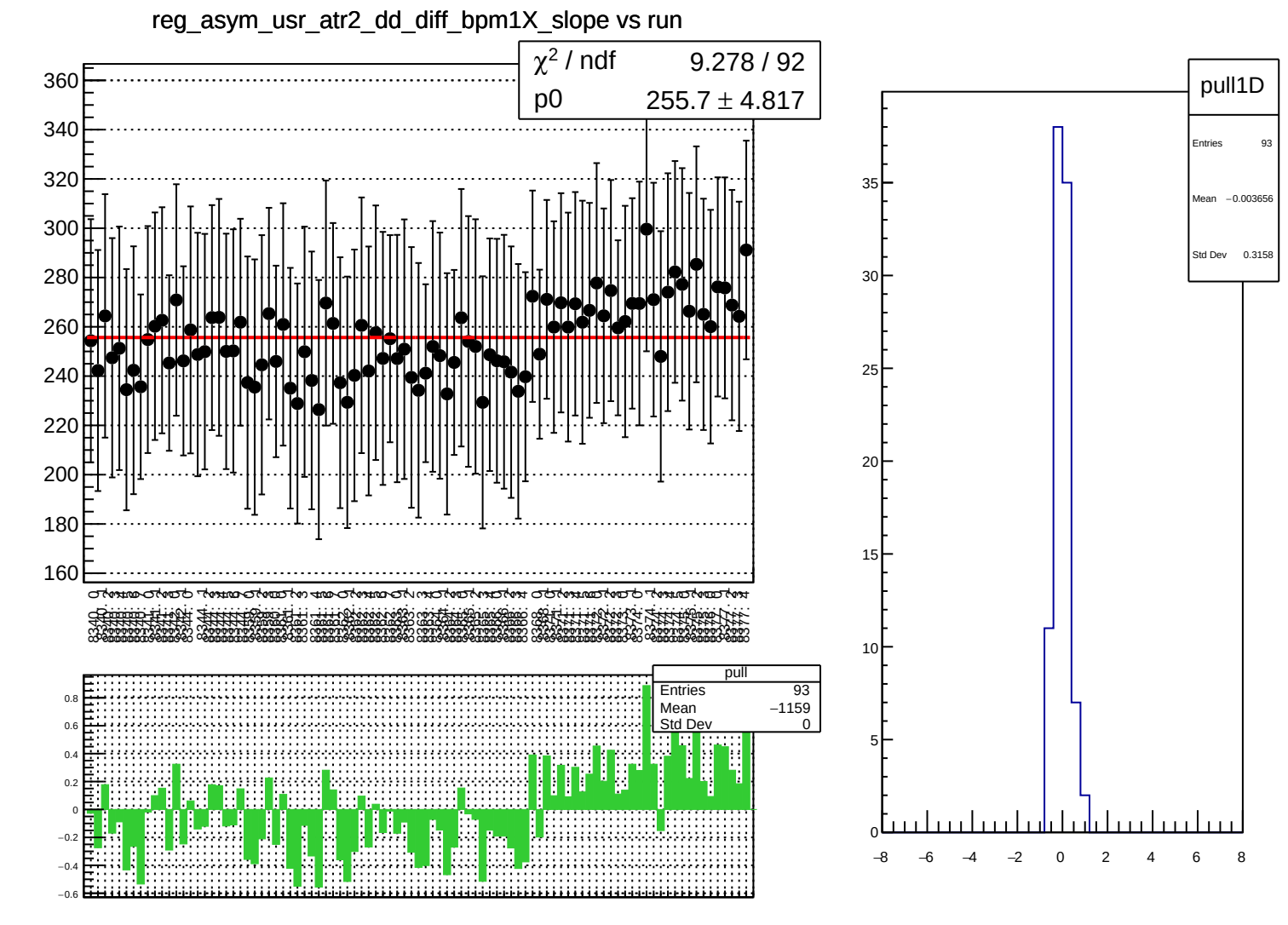

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.457 / 92
p0 61.79 ± 13.99
300
200
100
0
−100
pull
Entries 93
Mean 526.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean 0.001681
Std Dev 0.2189
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

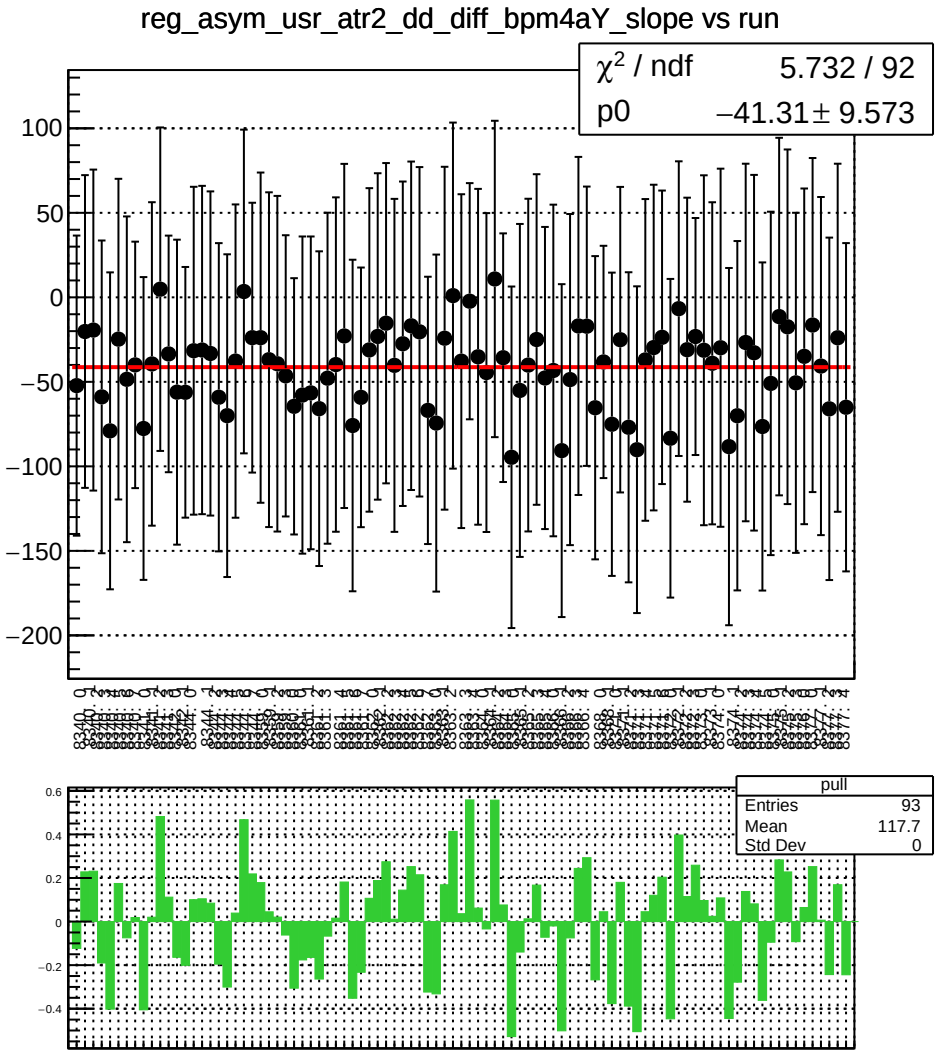

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.263 / 92
p0 380.5 ± 8.087
500
450
400
350
300
250
pull
Entries 93
Mean −2825
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.001254
Std Dev 0.2595
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

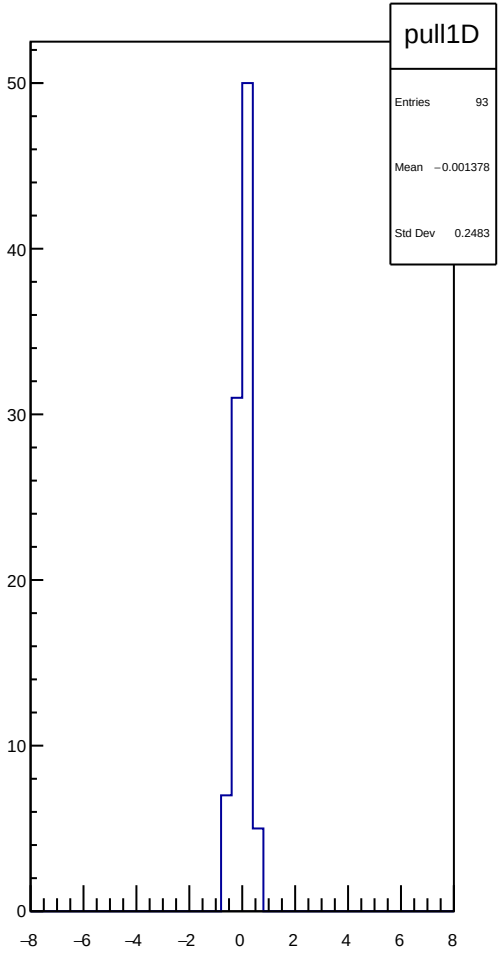

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.478 / 92
p0 17.49 ± 14.45
200
100
0
−100
−200
pull
Entries 93
Mean 411.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4

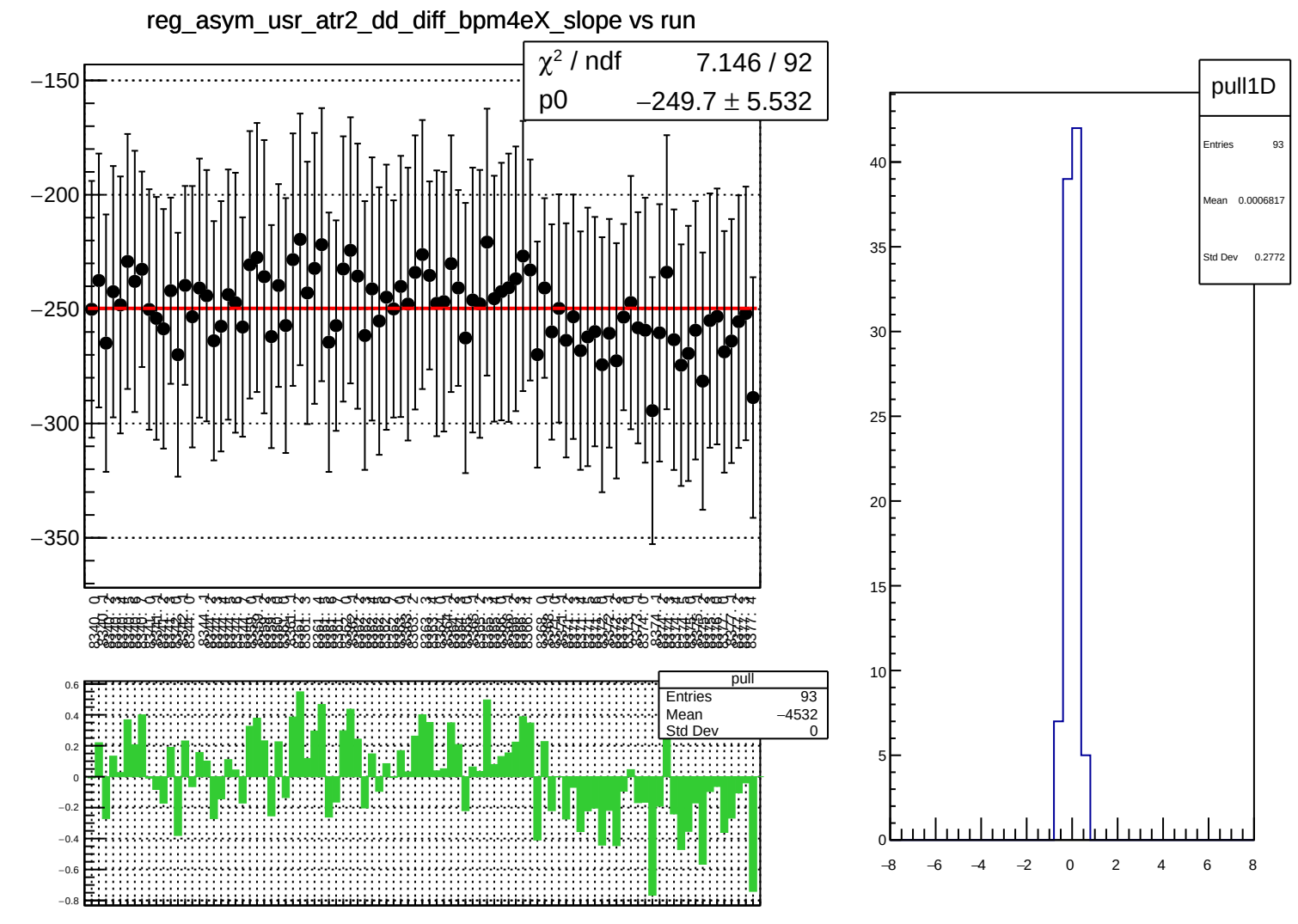

pull1D
Entries 93
Mean −0.001539
Std Dev 0.2194
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

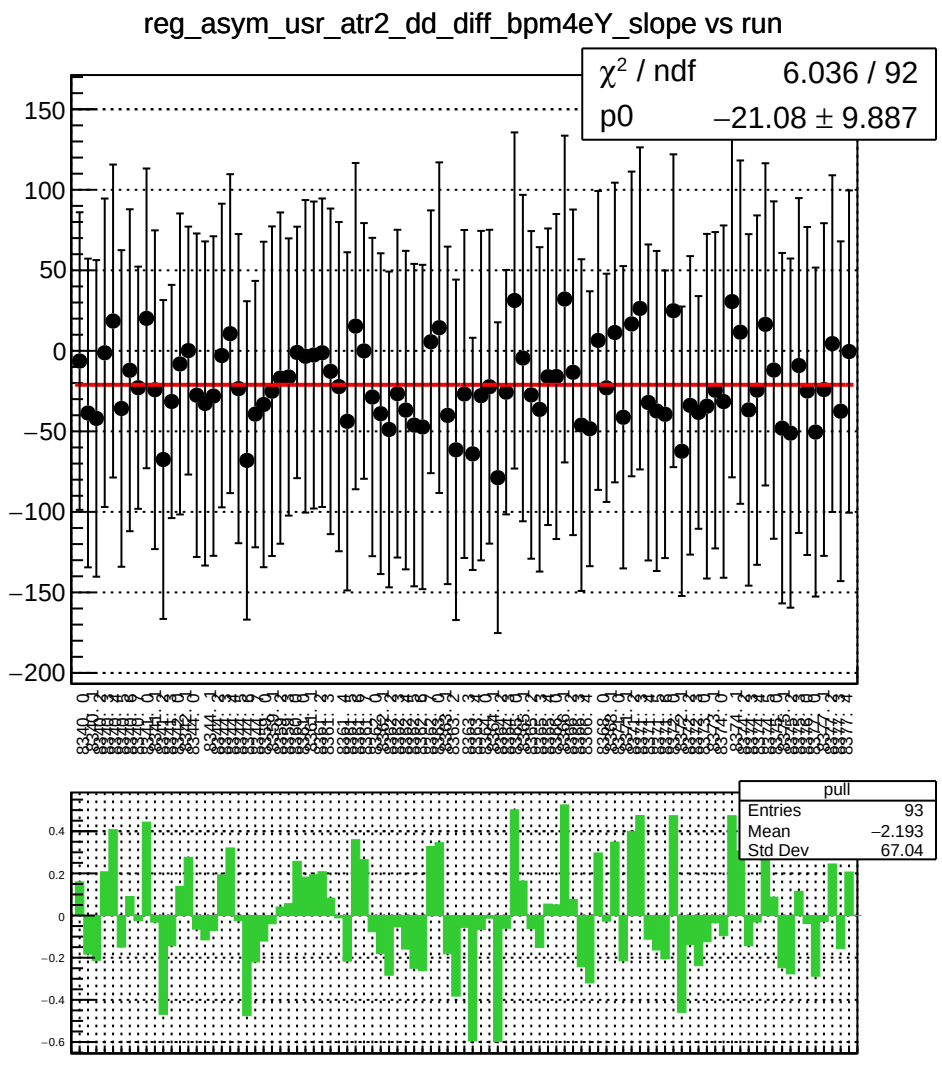

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.9 / 92
p0 −183.6 ± 0.8651
pull
Entries 93
Mean 227.6
Std Dev 0
pull1D
Entries 93
Mean −0.02447
Std Dev 0.3569

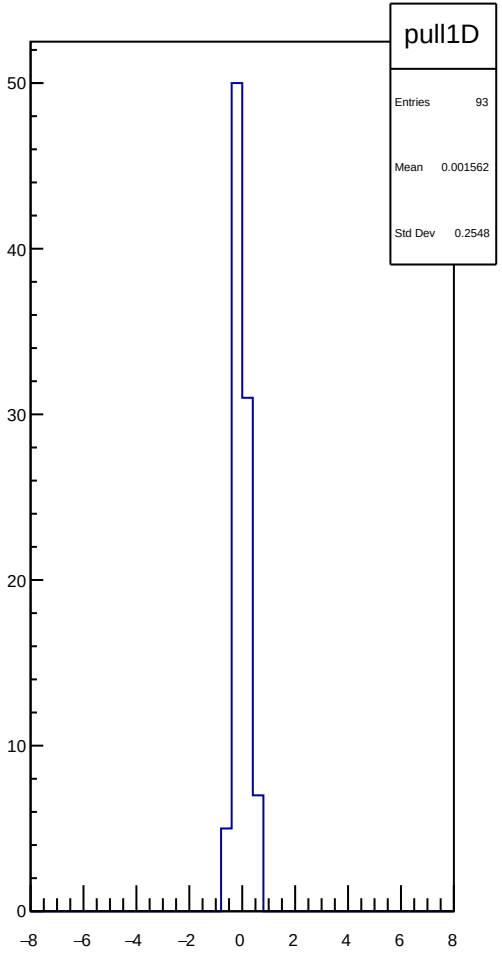

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 9.278 / 92
p0 255.7 ± 4.817
pull
Entries 93
Mean −1159
Std Dev 0
pull1D
Entries 93
Mean −0.003656
Std Dev 0.3158

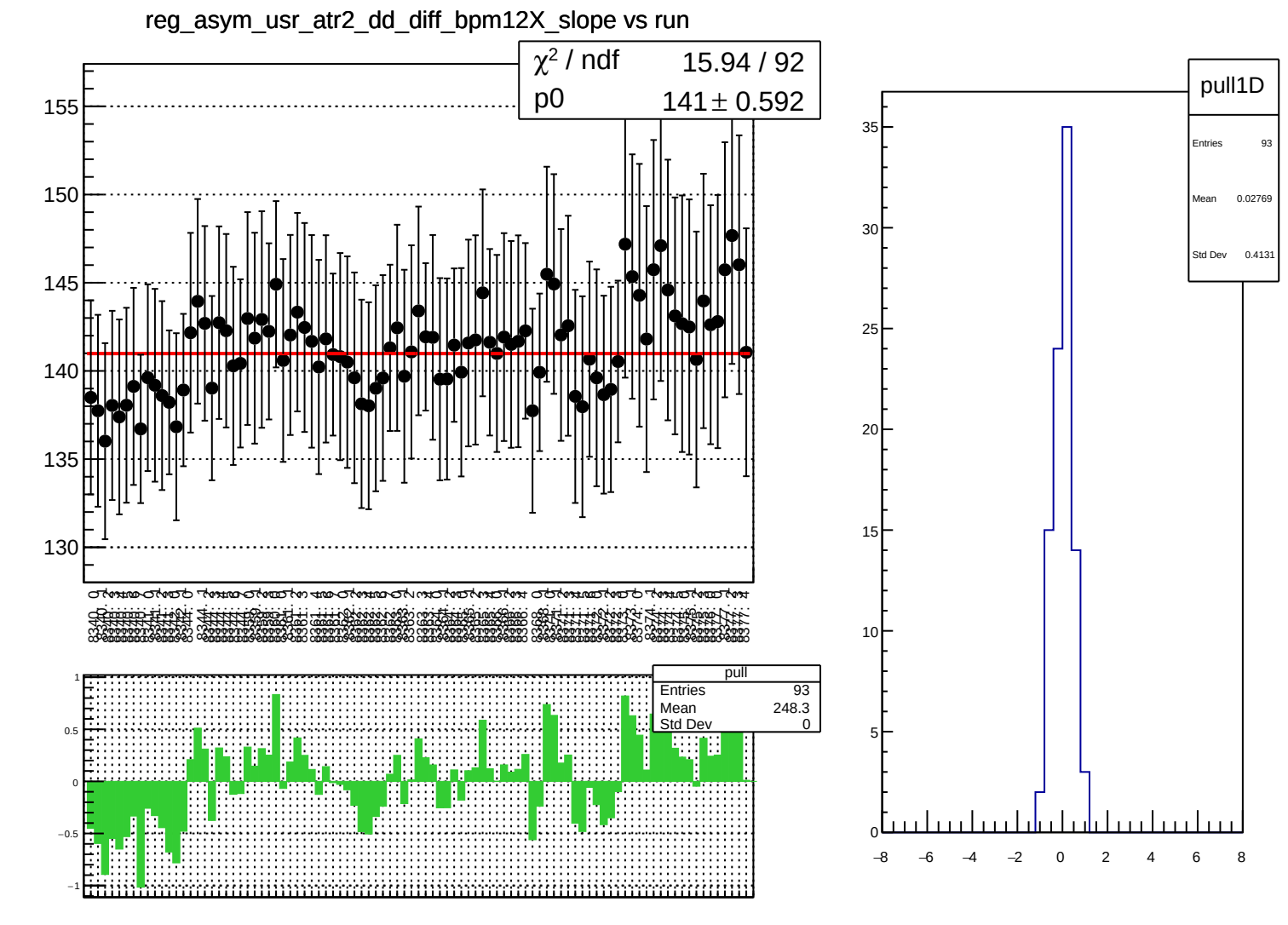

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.732 / 92
p0 −41.31 ± 9.573
pull
Entries 93
Mean 117.7
Std Dev 0

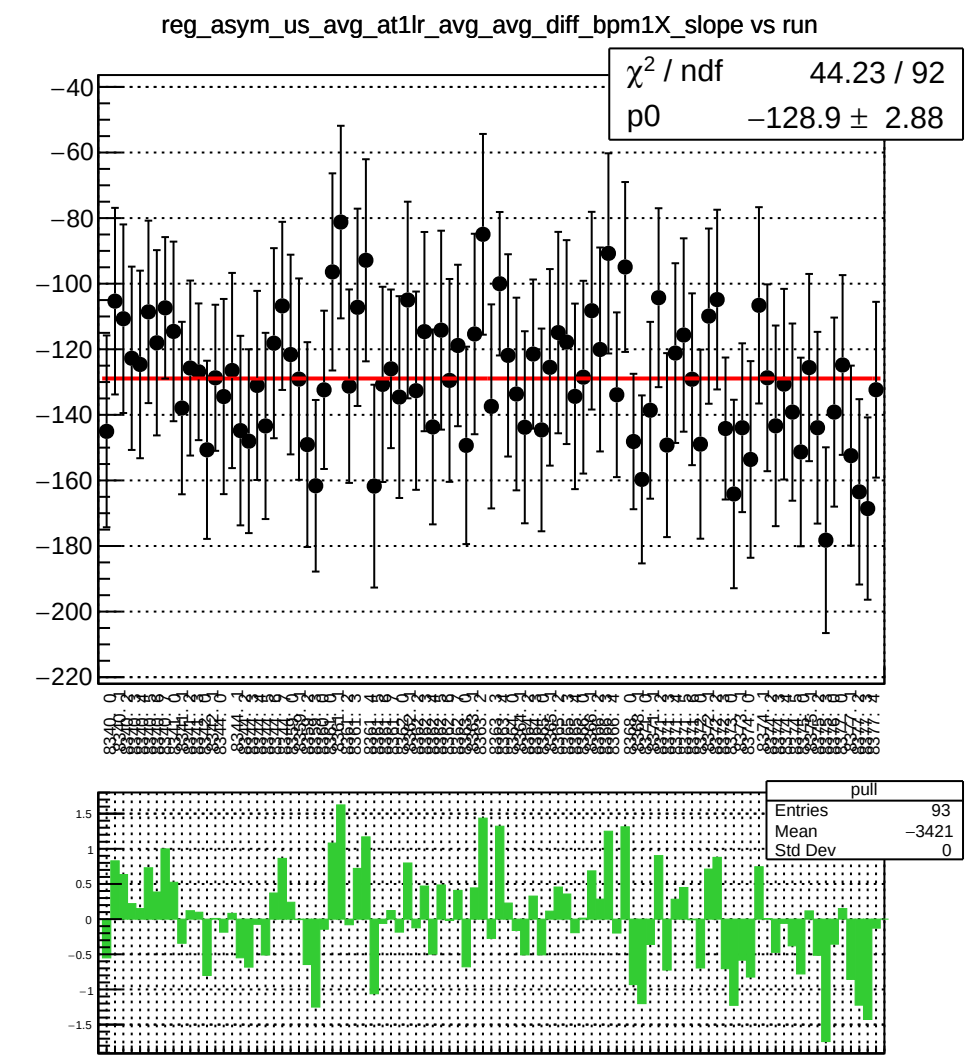

pull1D
Entries 93
Mean −0.001378
Std Dev 0.2483

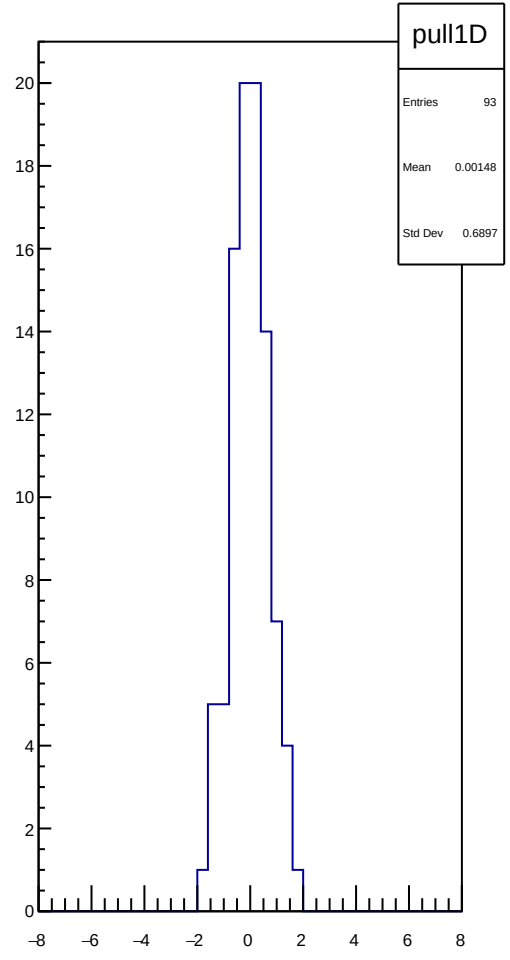

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.146 / 92
p0 −249.7 ± 5.532
−150
−200
−250
−300
−350
pull
Entries 93
Mean −4532
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 93
Mean 0.0006817
Std Dev 0.2772
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

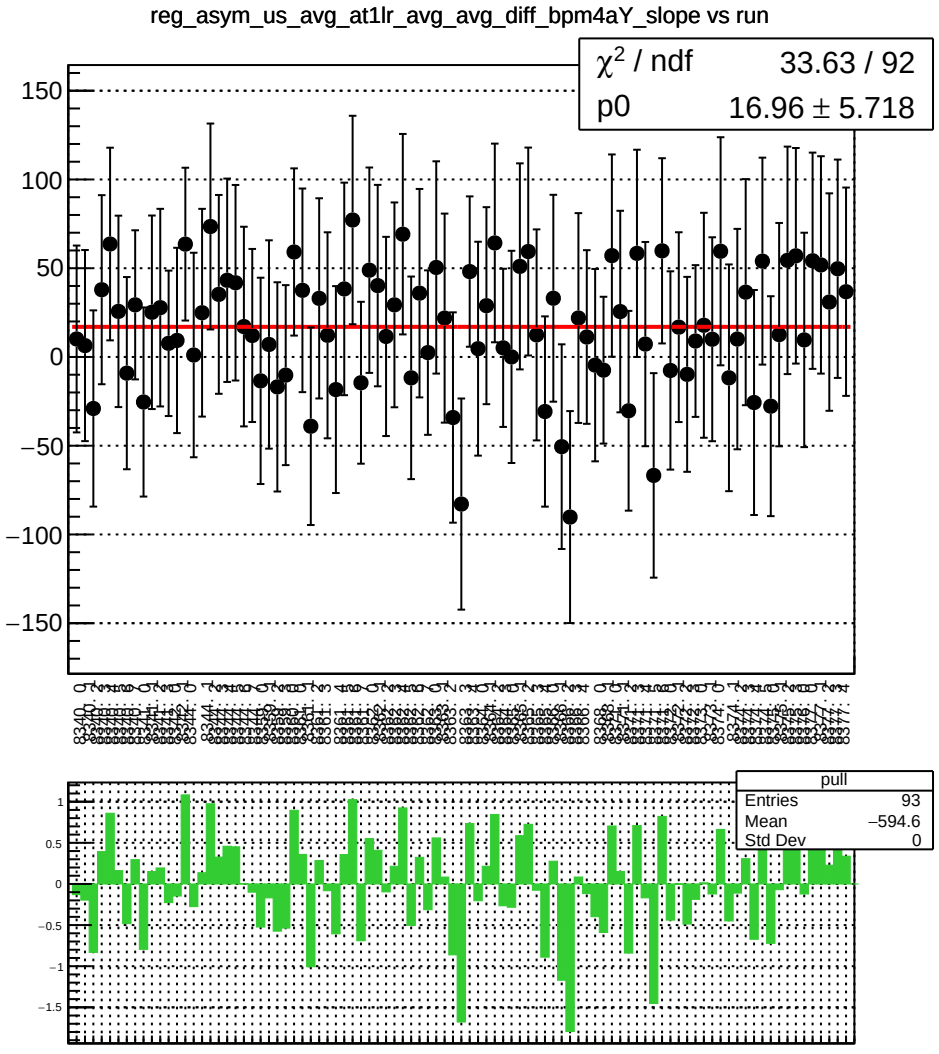

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.036 / 92
p0 −21.08 ± 9.887
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −2.193
Std Dev 67.04
0.4
0.2
0
−0.2
−0.4
−0.6

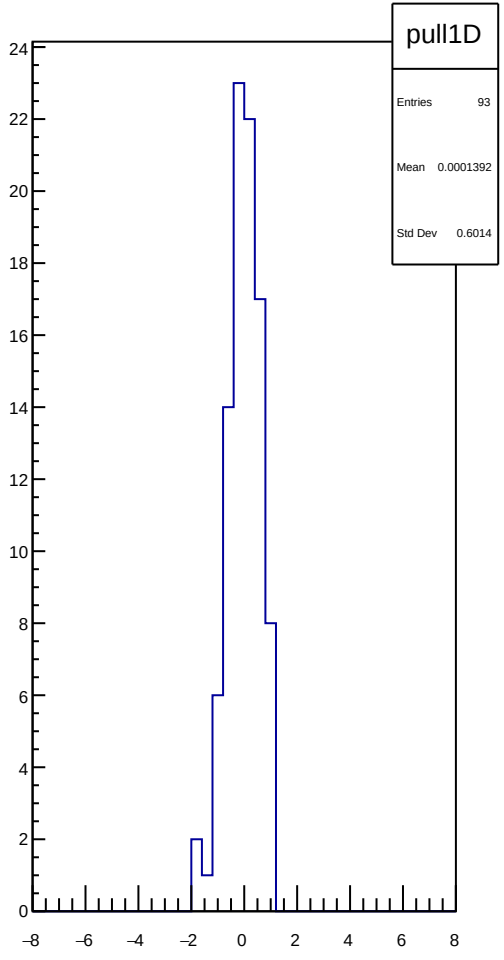

pull1D
Entries 93
Mean 0.001562
Std Dev 0.2548
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

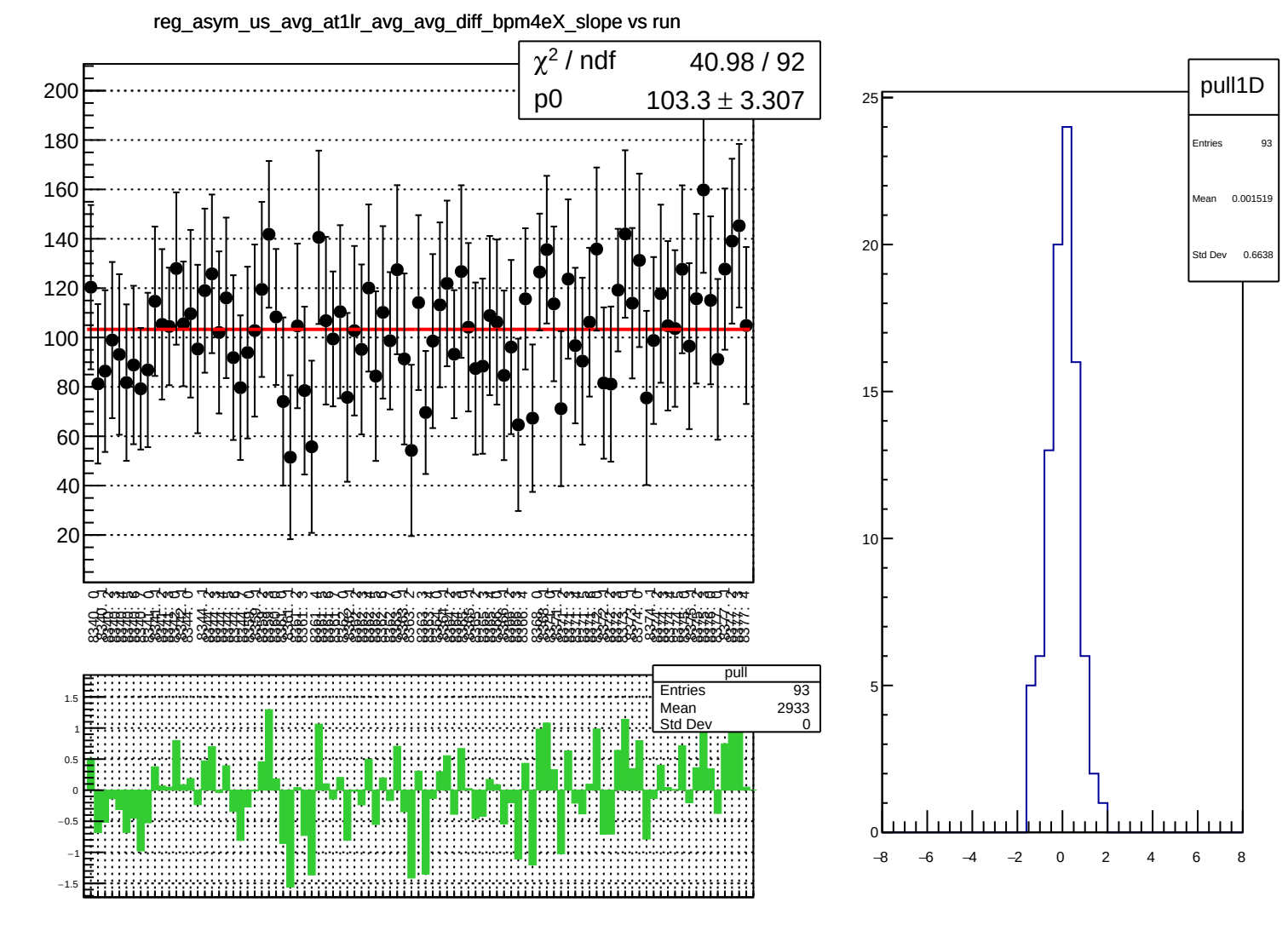

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.94 / 92
p0 141 ± 0.592
155
150
145
140
135
130
pull
Entries 93
Mean 248.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.02769
Std Dev 0.4131
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

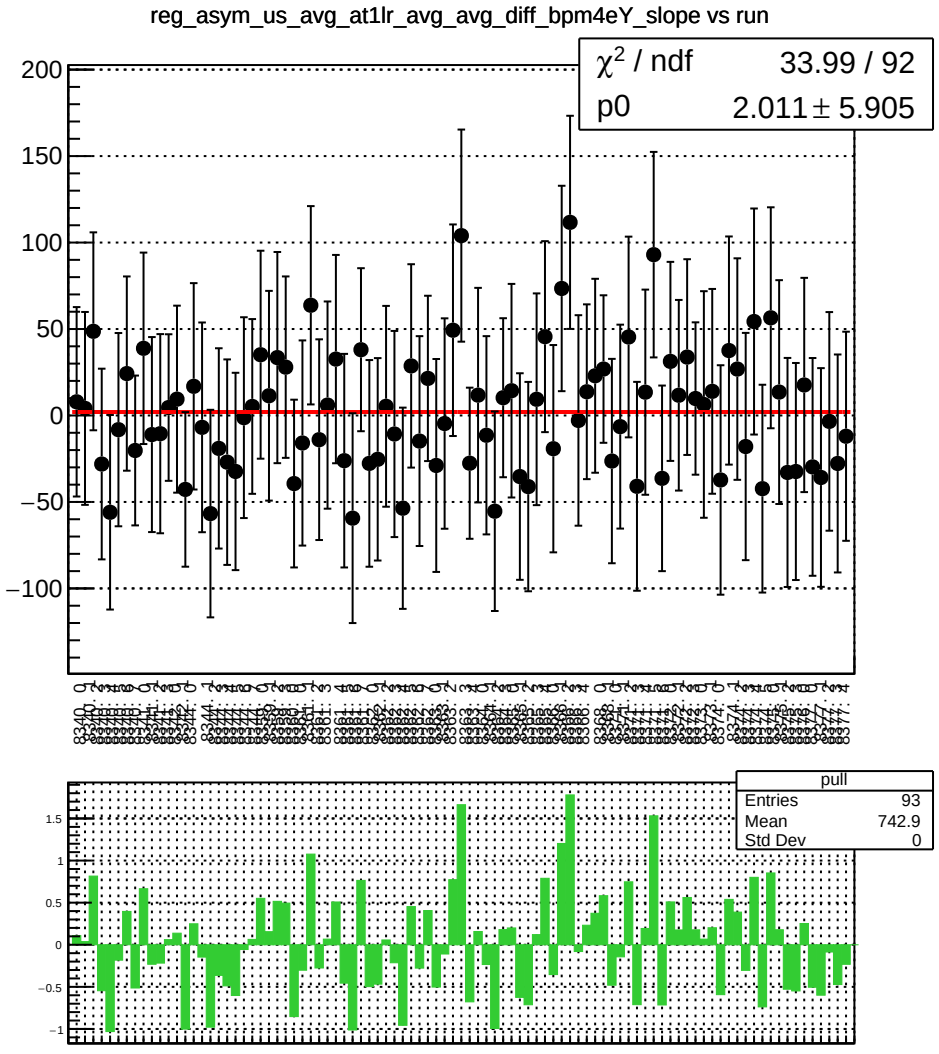

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 44.23 / 92
p0 −128.9 ± 2.88
pull
Entries 93
Mean −3421
Std Dev 0

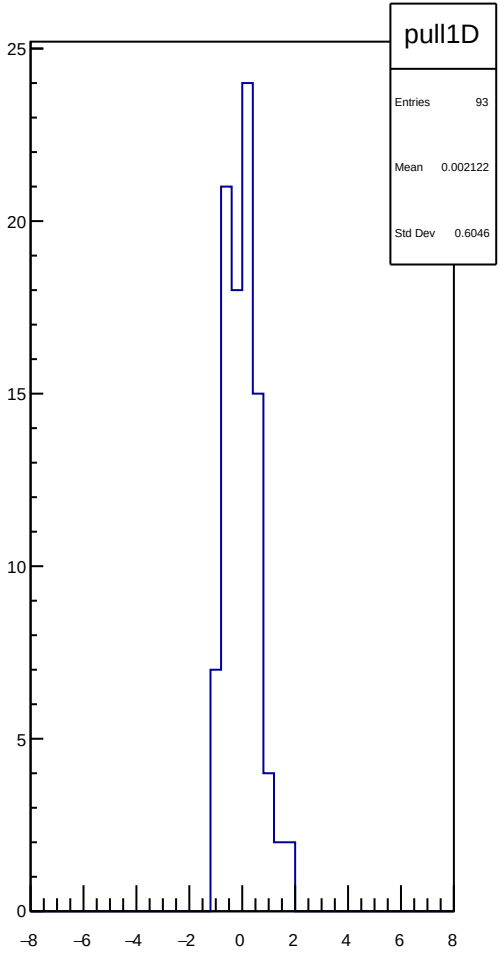

pull1D
Entries 93
Mean 0.00148
Std Dev 0.6897

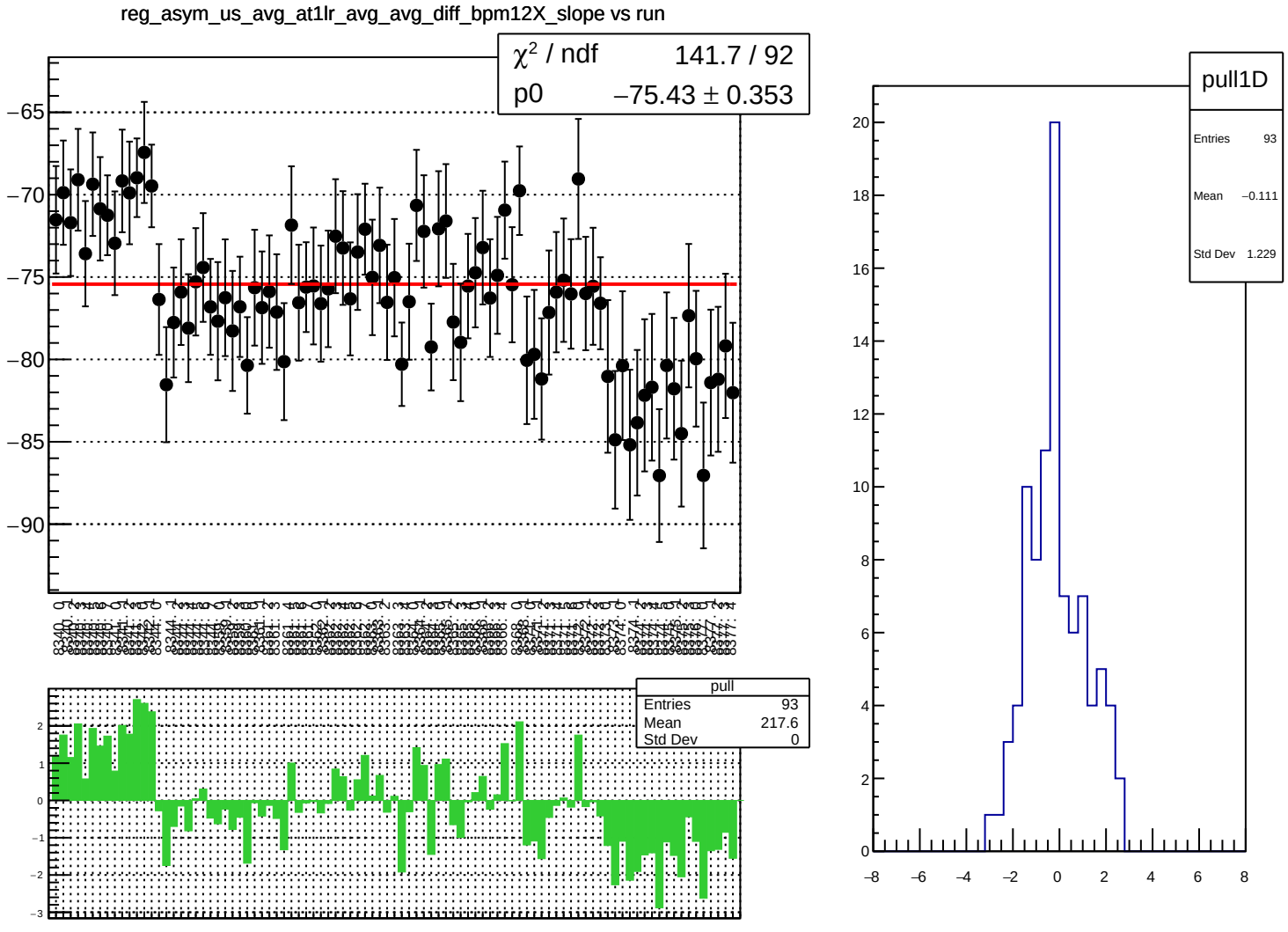

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.63 / 92
p0 16.96 ± 5.718
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −594.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

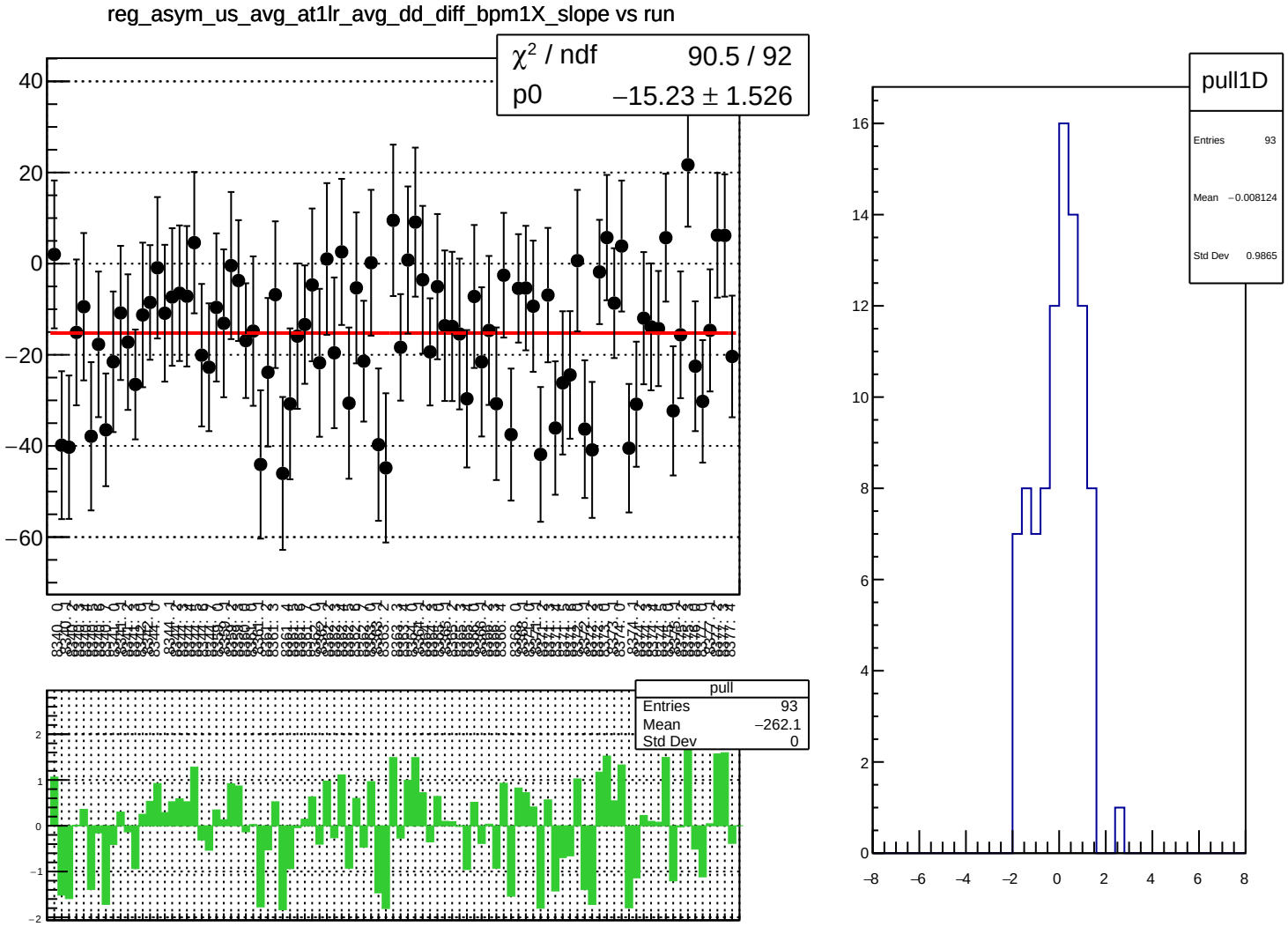

pull1D
Entries 93
Mean 0.0001392
Std Dev 0.6014
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

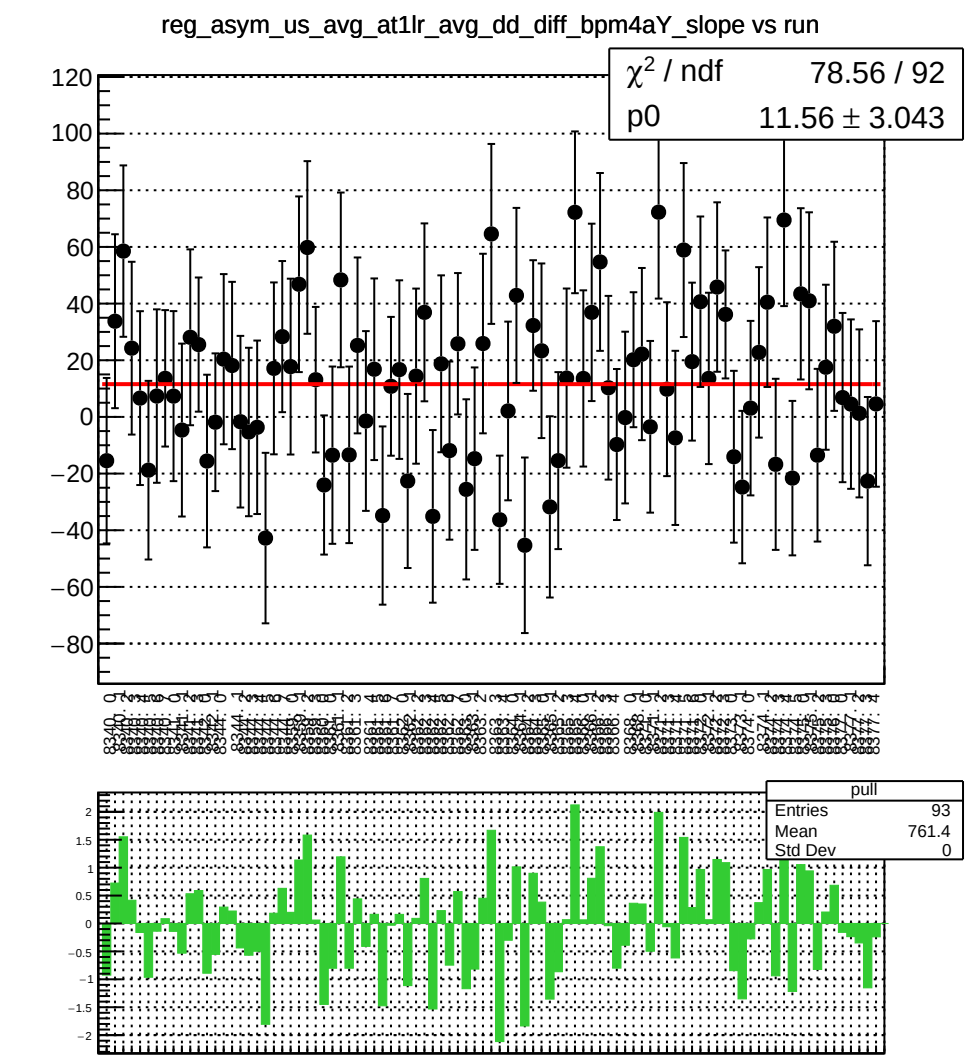

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.98 / 92
p0 103.3 ± 3.307
pull
Entries 93
Mean 2933
Std Dev 0
pull1D
Entries 93
Mean 0.001519
Std Dev 0.6638

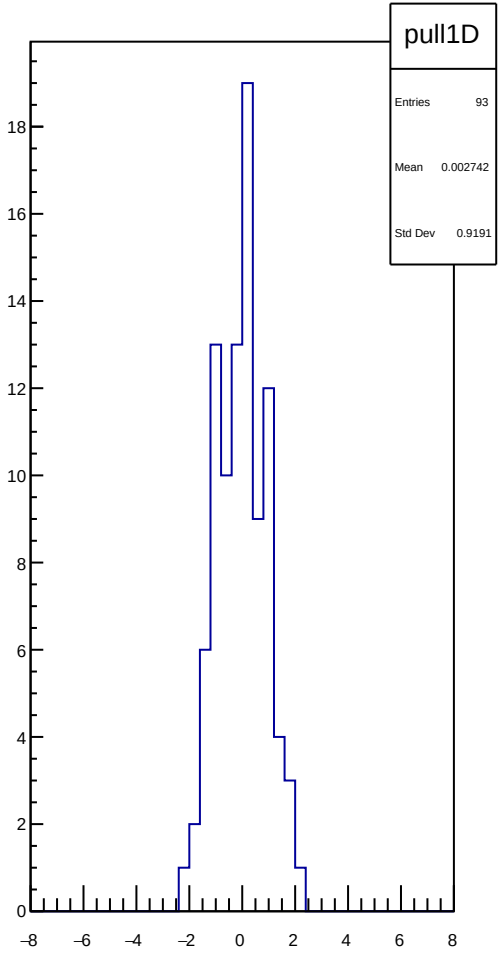

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.99 / 92
p0 2.011 ± 5.905
pull
Entries 93
Mean 742.9
Std Dev 0

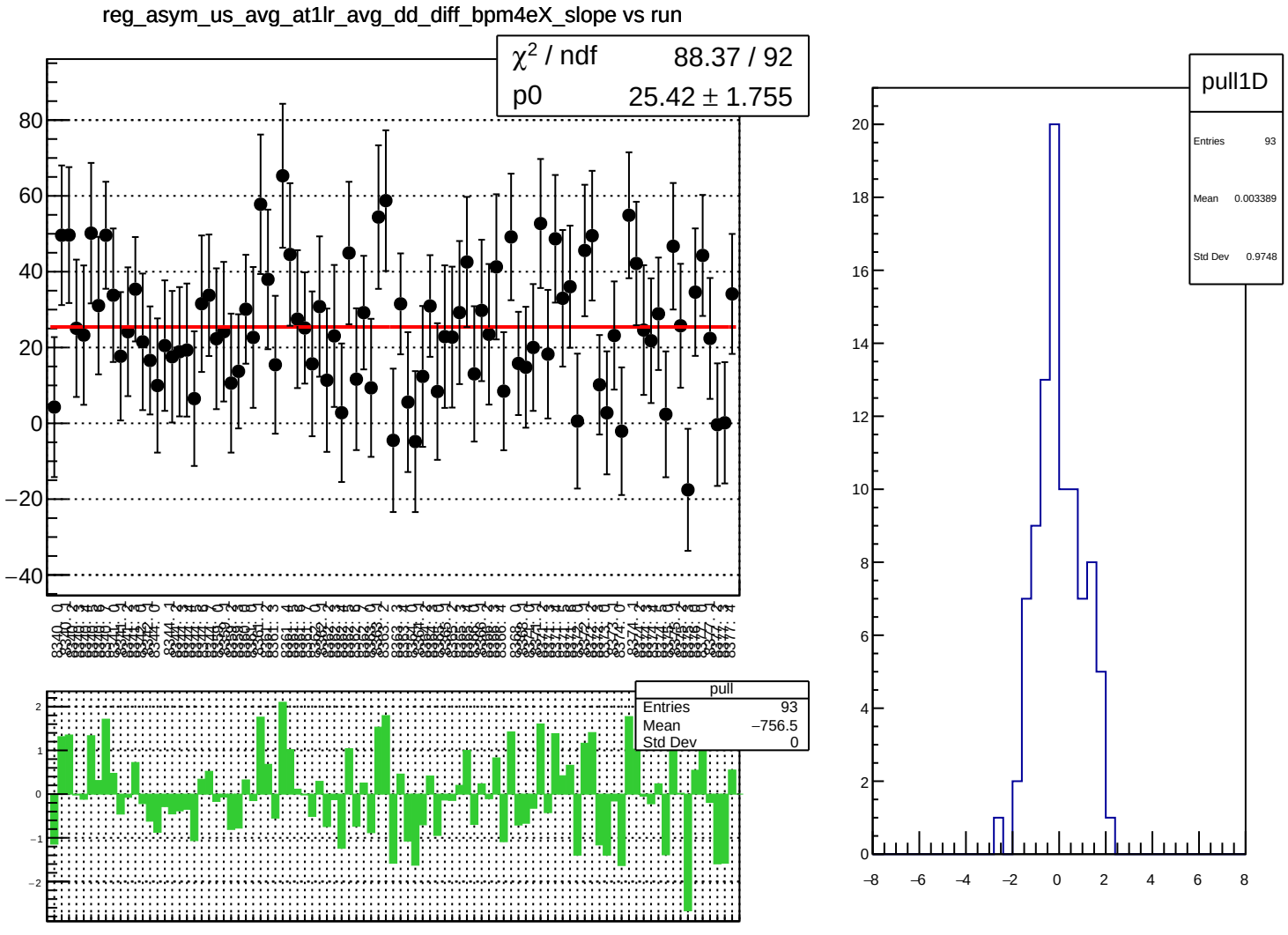

pull1D
Entries 93
Mean 0.002122
Std Dev 0.6046

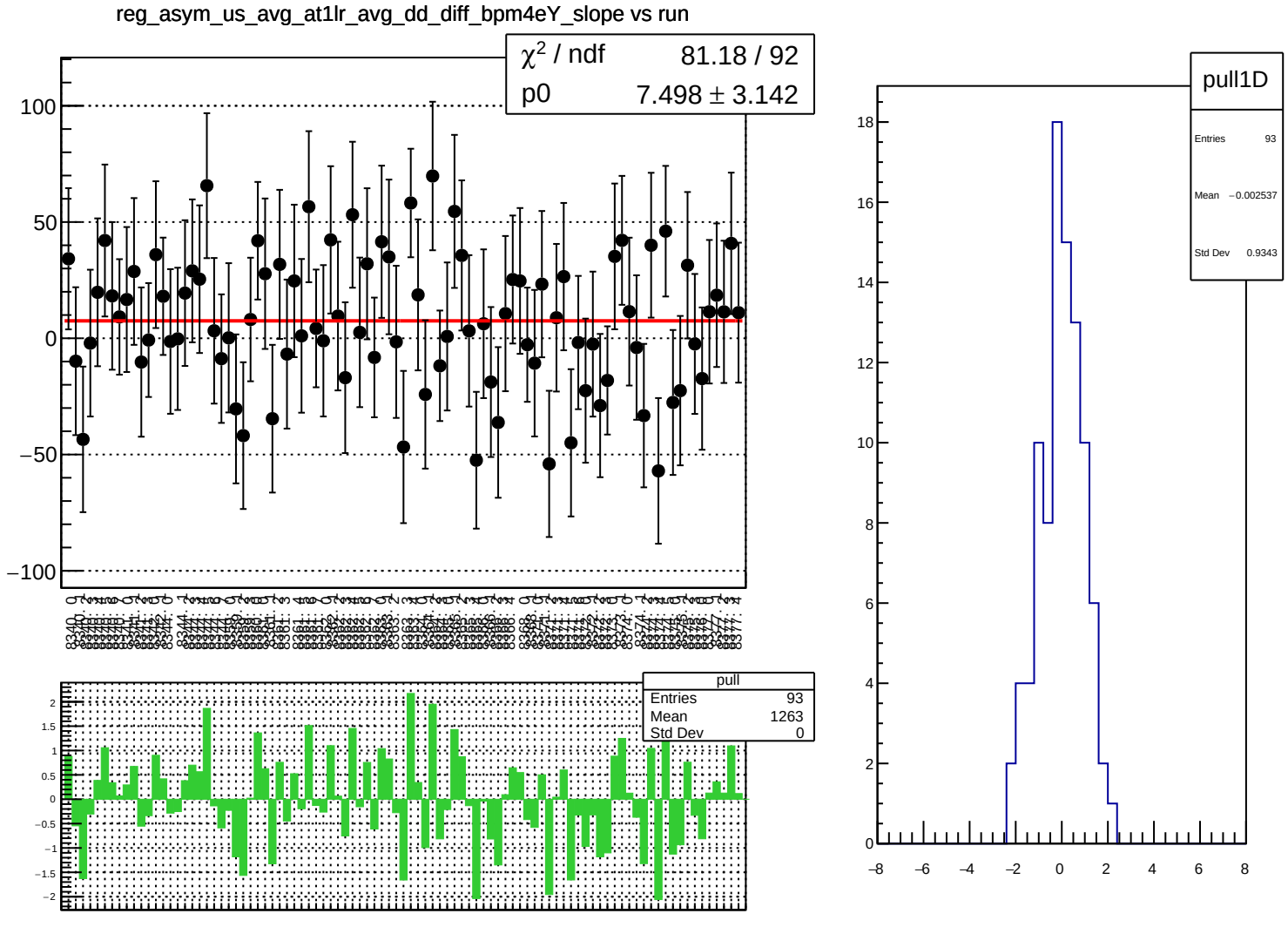

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 141.7 / 92
p0 −75.43 ± 0.353
−65
−70
−75
−80
−85
−90
pull
Entries 93
Mean 217.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.111
Std Dev 1.229
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

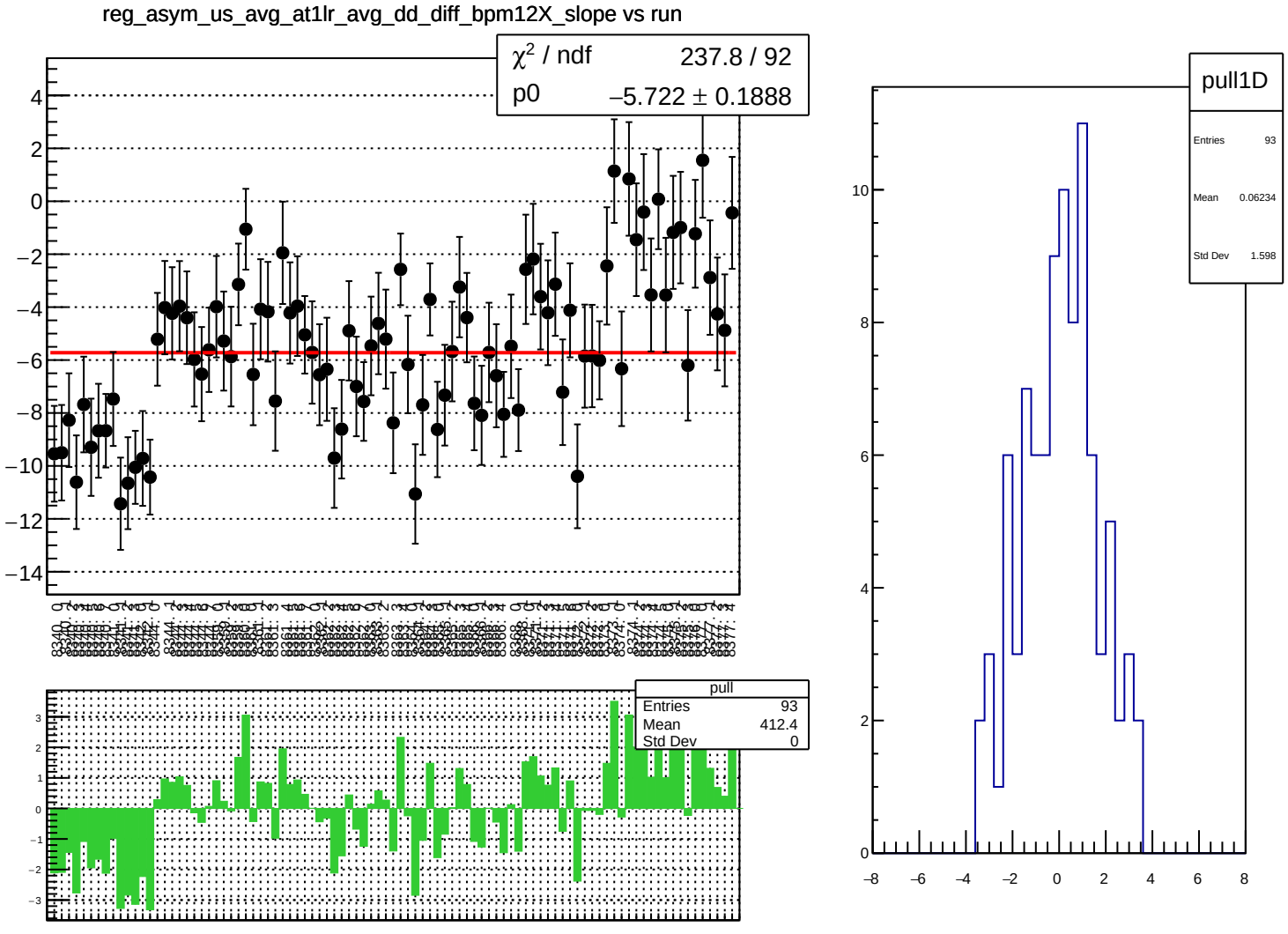

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 90.5 / 92
p0 −15.23 ± 1.526
pull
Entries 93
Mean −262.1
Std Dev 0
pull1D
Entries 93
Mean −0.008124
Std Dev 0.9865

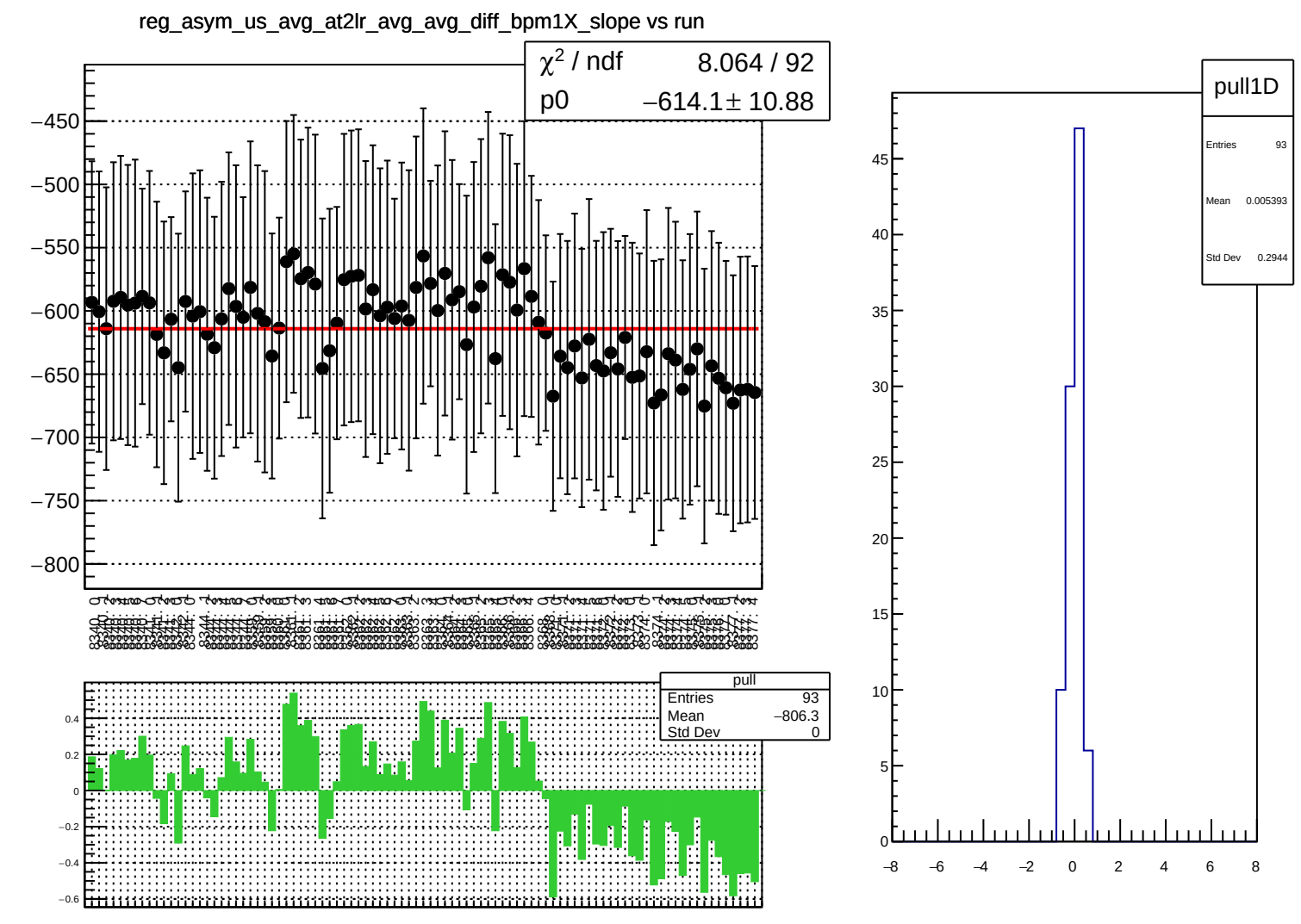

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.56 / 92
p0 11.56 ± 3.043
pull
Entries 93
Mean 761.4
Std Dev 0

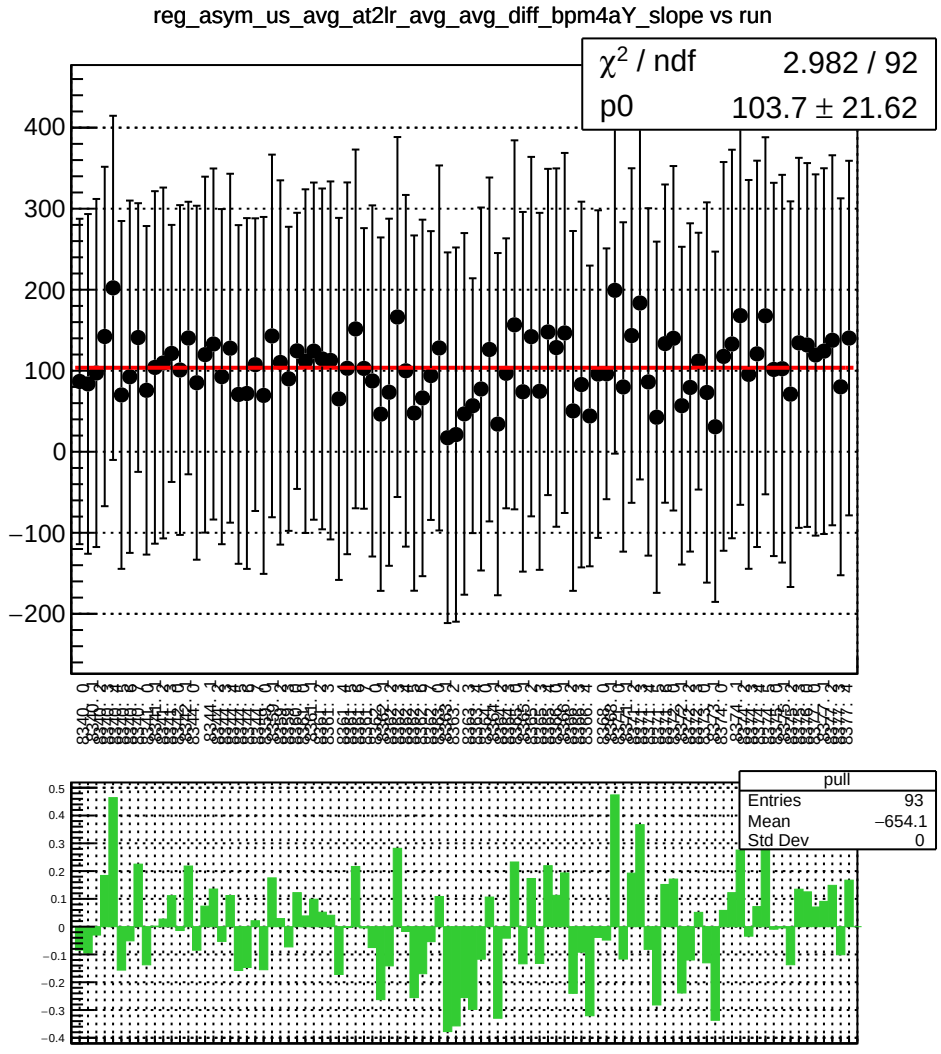

pull1D
Entries 93
Mean 0.002742
Std Dev 0.9191

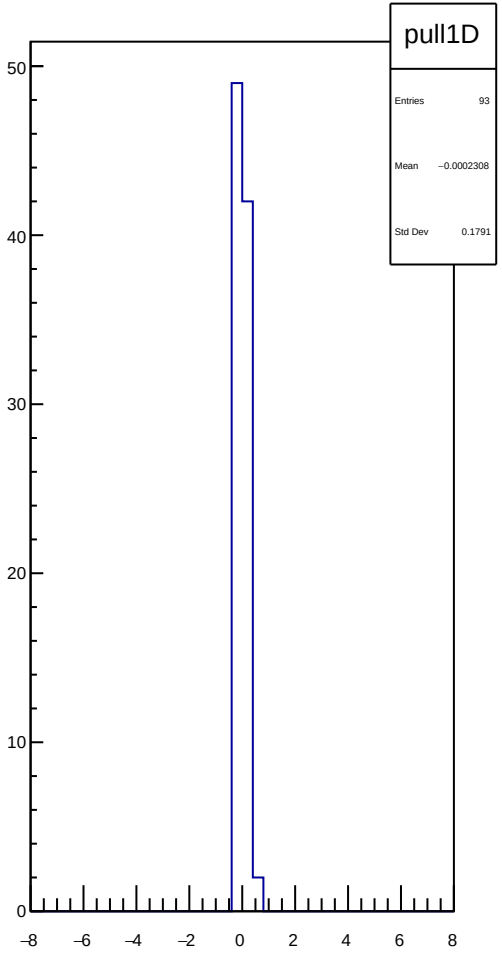

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 88.37 / 92
p0 25.42 ± 1.755
pull
Entries 93
Mean −756.5
Std Dev 0
pull1D
Entries 93
Mean 0.003389
Std Dev 0.9748

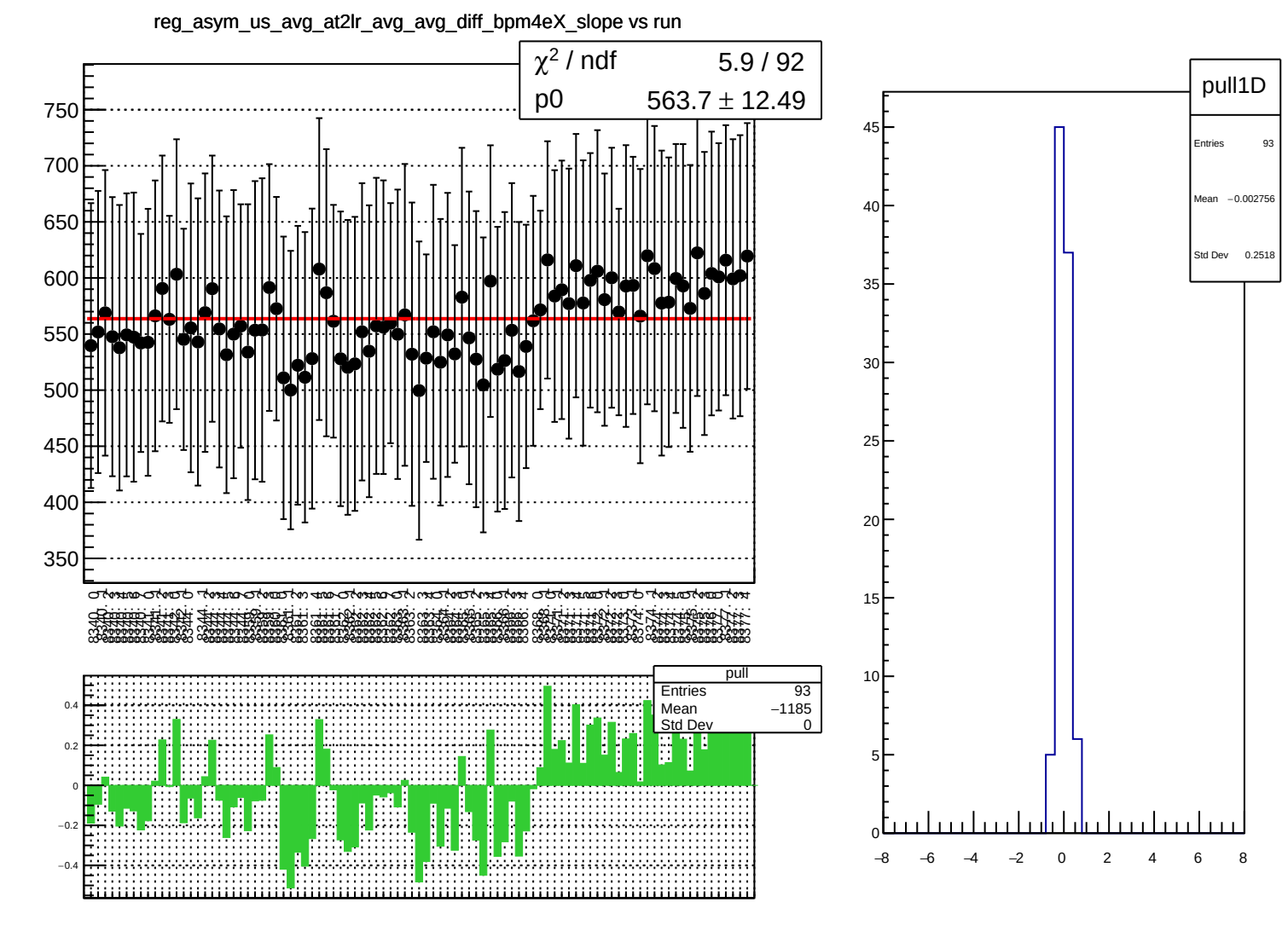

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.18 / 92
p0 7.498 ± 3.142
100
50
0
−50
−100
pull
Entries 93
Mean 1263
Std Dev 0
pull1D
Entries 93
Mean −0.002537
Std Dev 0.9343
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

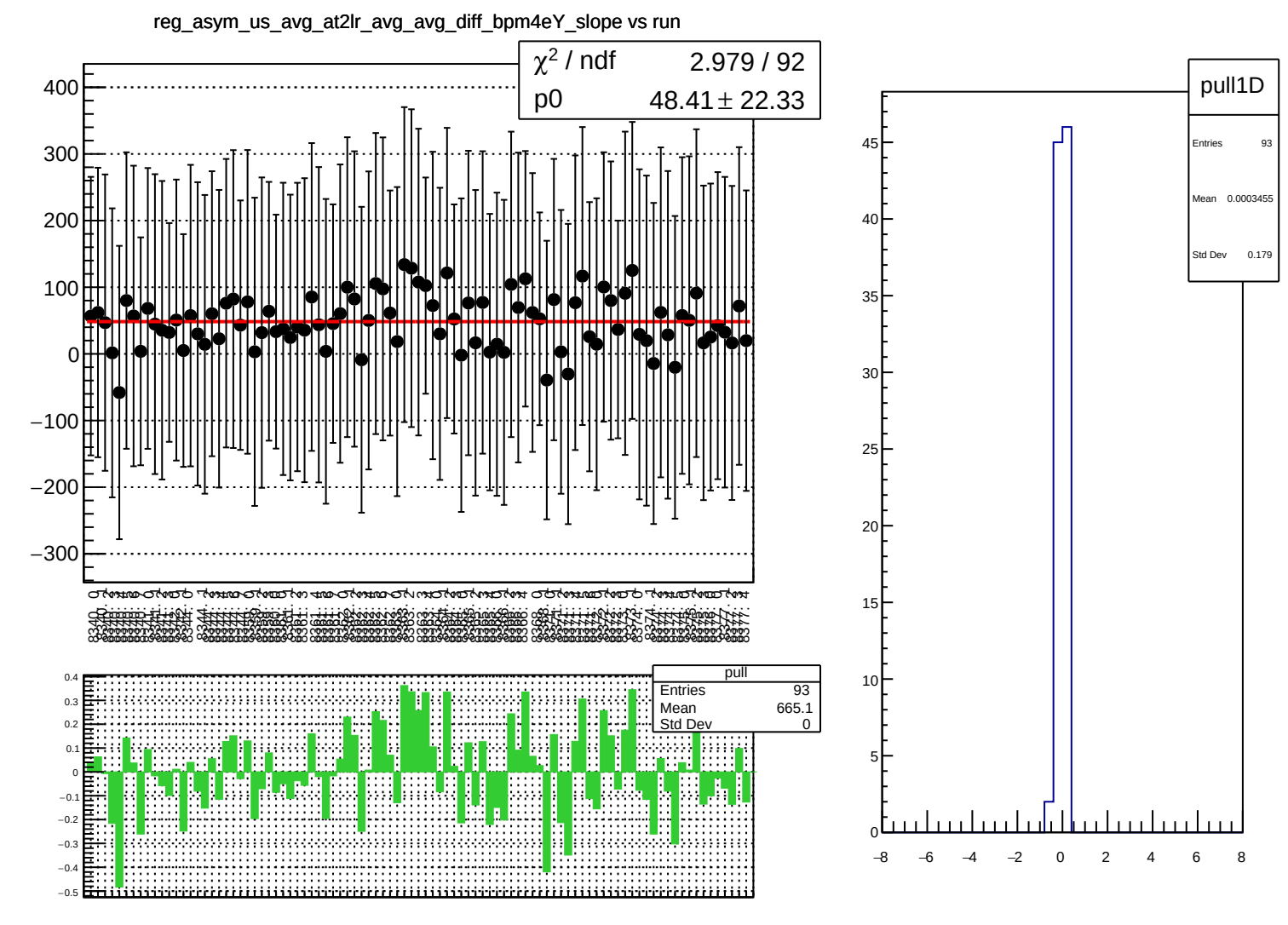

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 237.8 / 92
p0 −5.722 ± 0.1888
pull
Entries 93
Mean 412.4
Std Dev 0
pull1D
Entries 93
Mean 0.06234
Std Dev 1.598

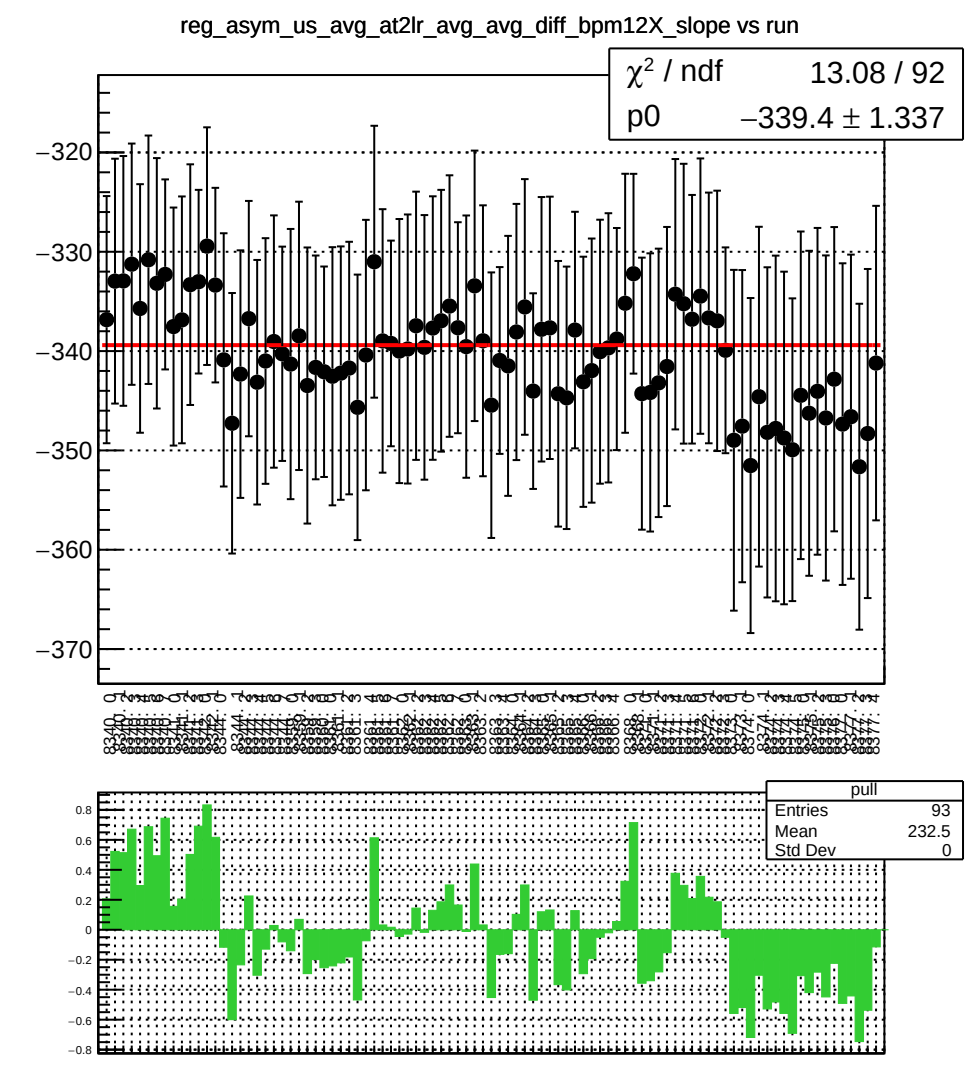

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.064 / 92
p0 −614.1 ± 10.88
−450
−500
−550
−600
−650
−700
−750
−800
pull
Entries 93
Mean −806.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.005393
Std Dev 0.2944
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

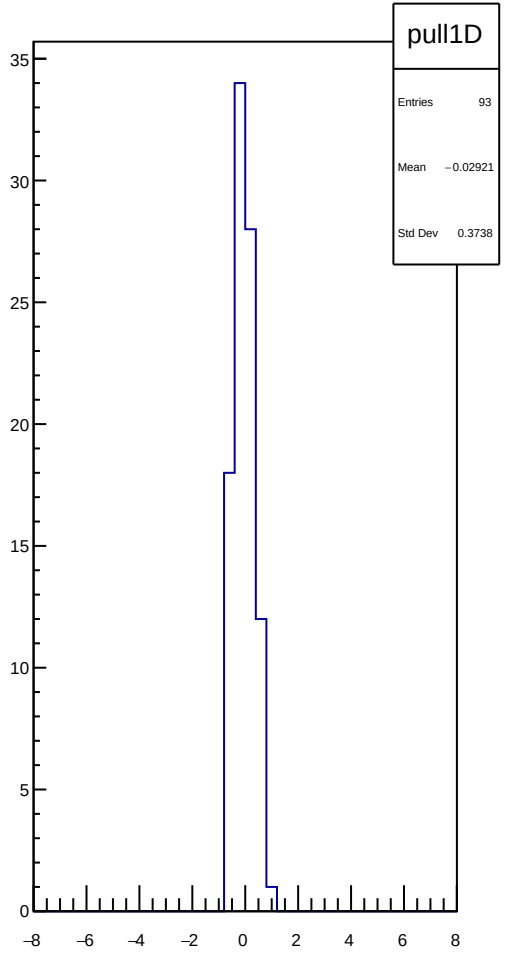

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.982 / 92
p0 103.7 ± 21.62
400
300
200
100
0
−100
−200
pull
Entries 93
Mean −654.1
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

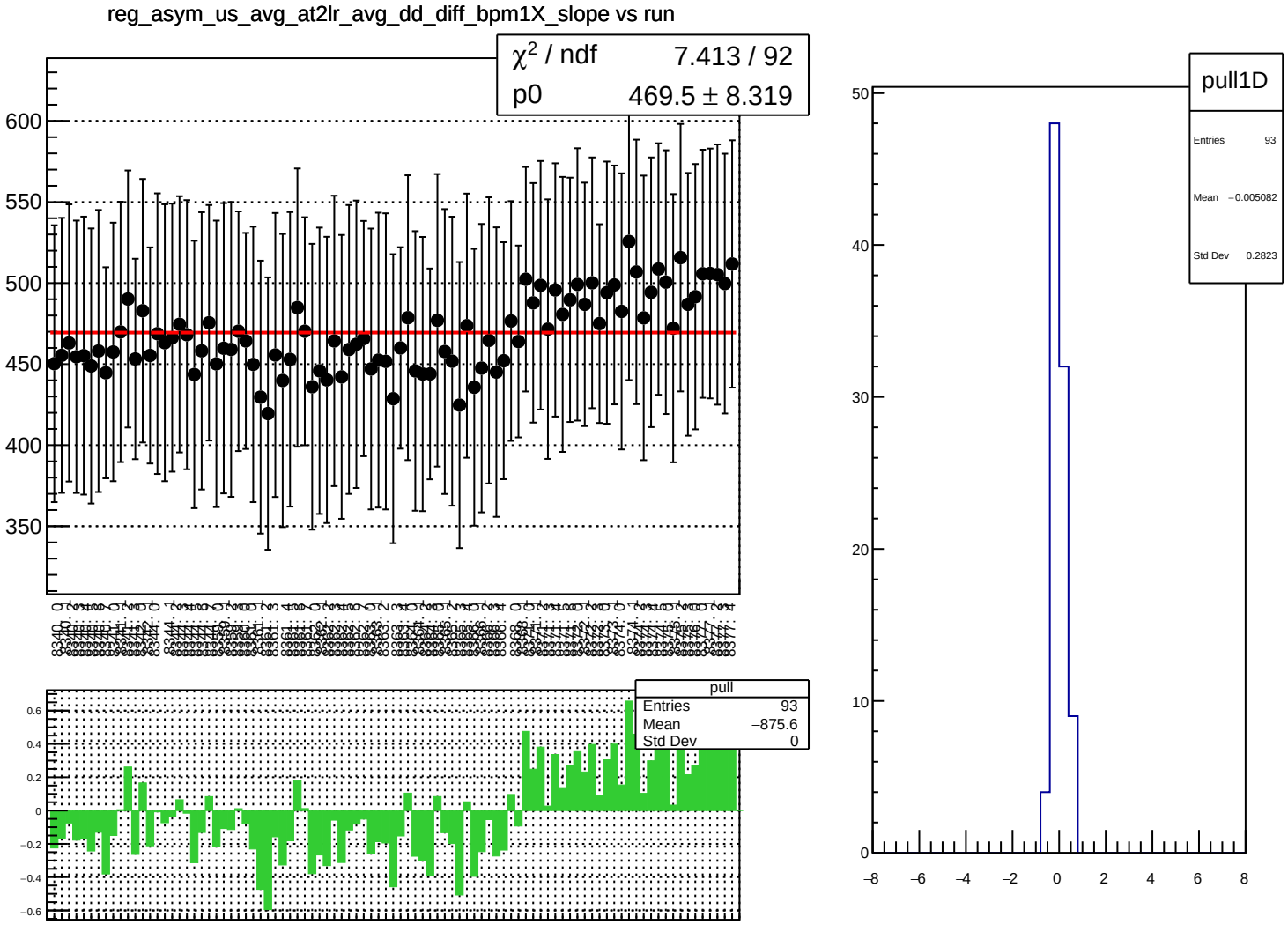

pull1D
Entries 93
Mean −0.0002308
Std Dev 0.1791
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

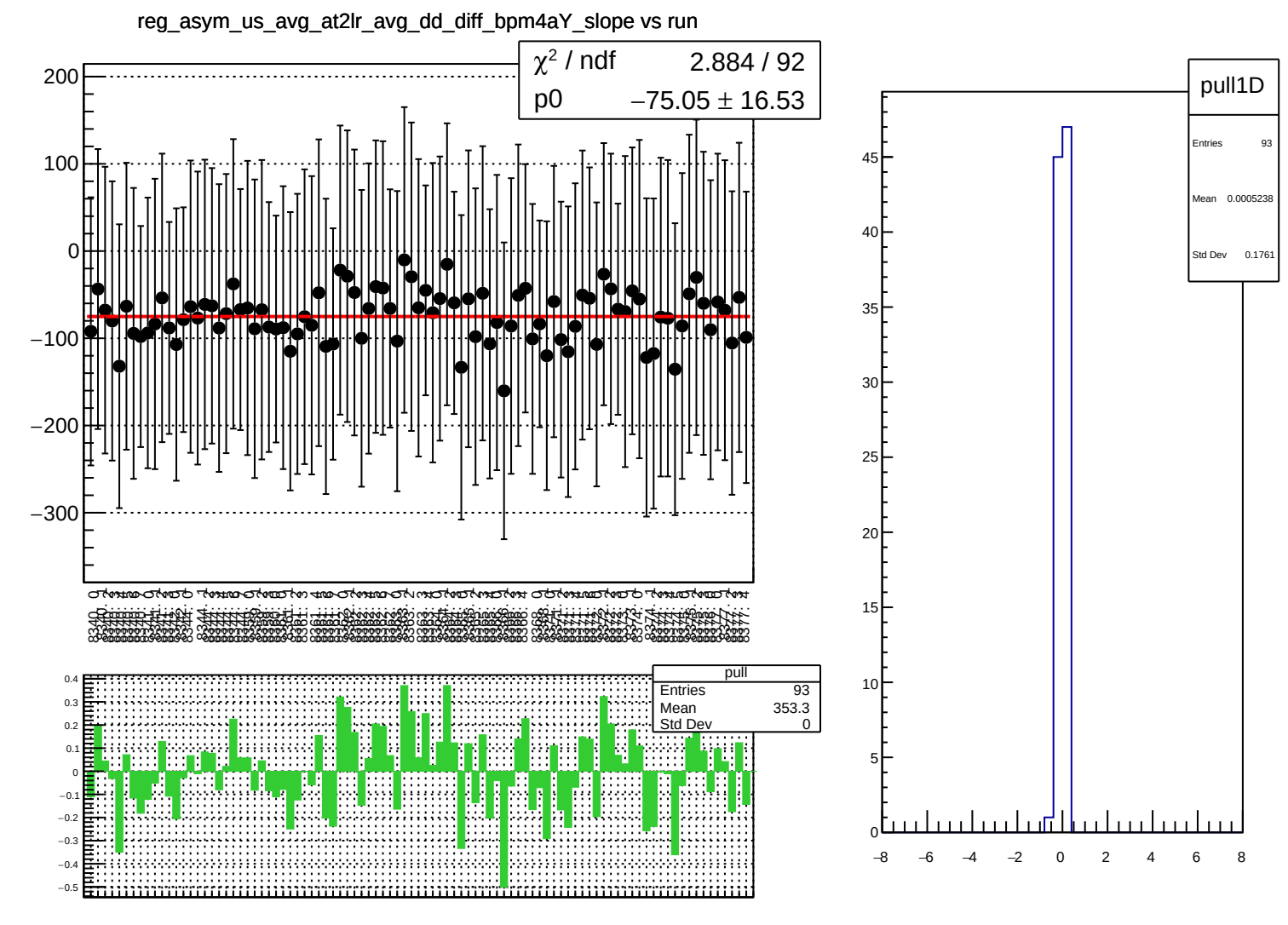

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.9 / 92
p0 563.7 ± 12.49
750
700
650
600
550
500
450
400
350
pull
Entries 93
Mean −1185
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.002756
Std Dev 0.2518
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

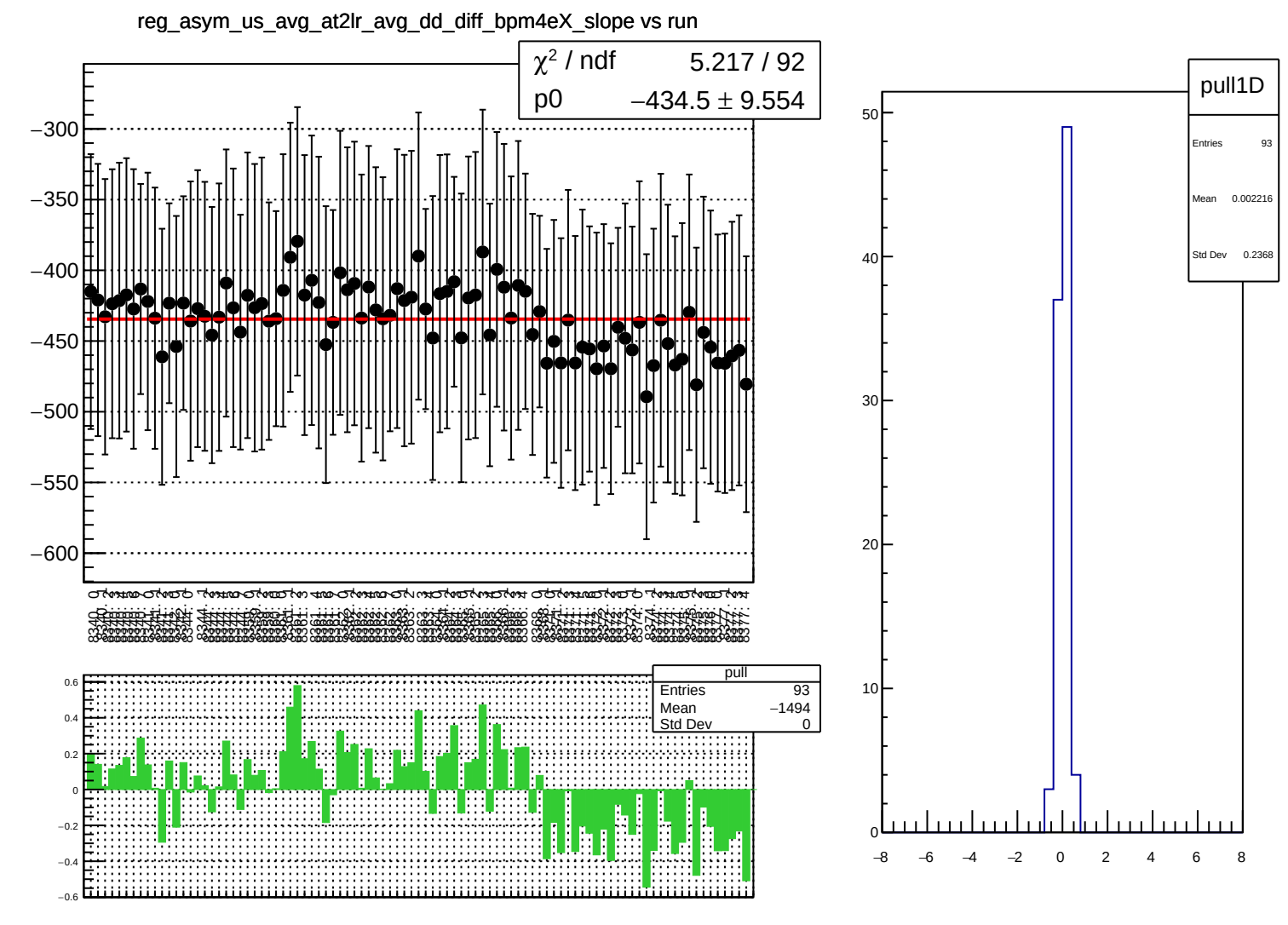

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.979 / 92
p0 48.41 ± 22.33
pull
Entries 93
Mean 665.1
Std Dev 0
pull1D
Entries 93
Mean 0.0003455
Std Dev 0.179

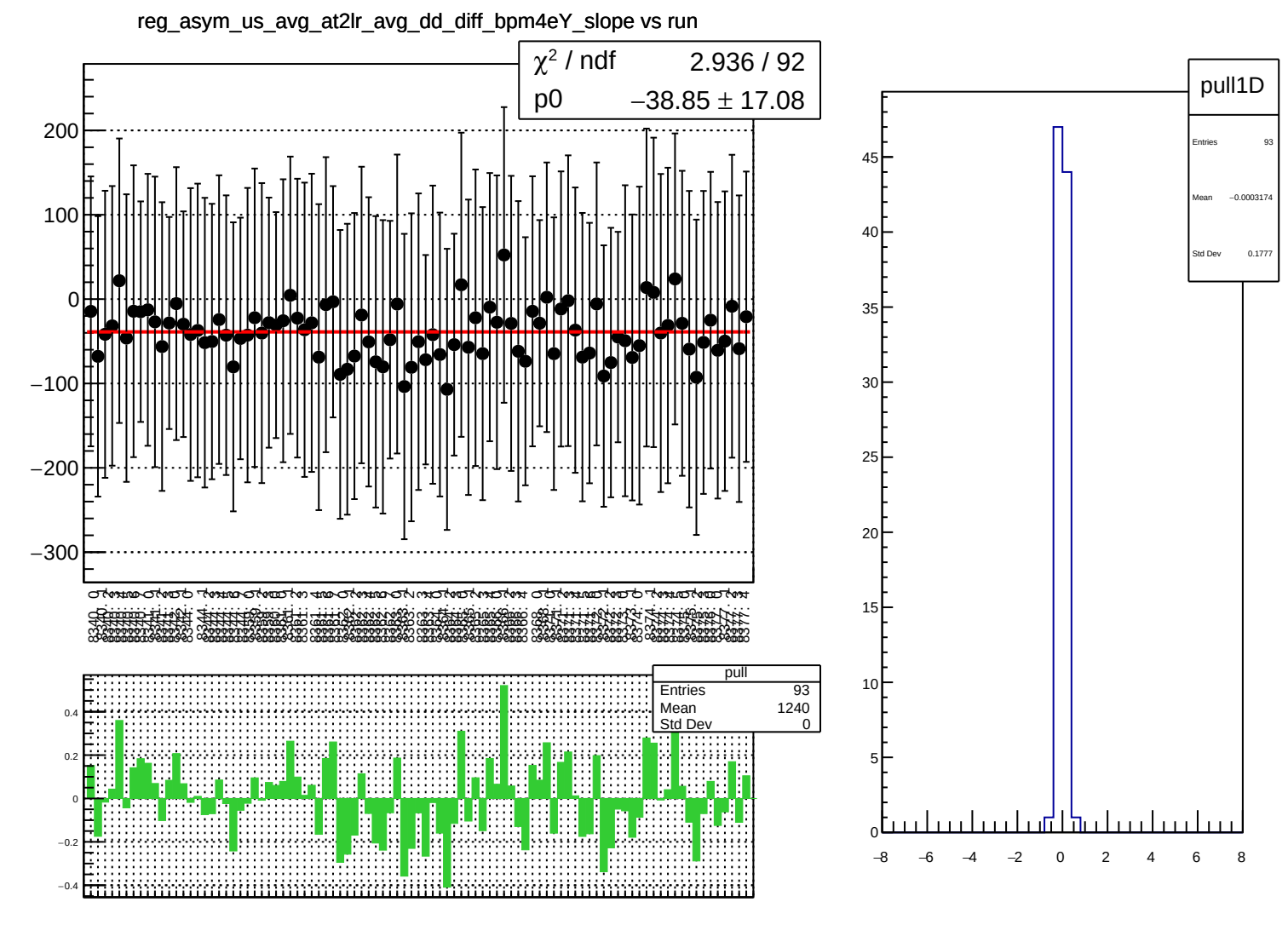

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 13.08 / 92
p0 −339.4 ± 1.337
−320
−330
−340
−350
−360
−370
pull
Entries 93
Mean 232.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

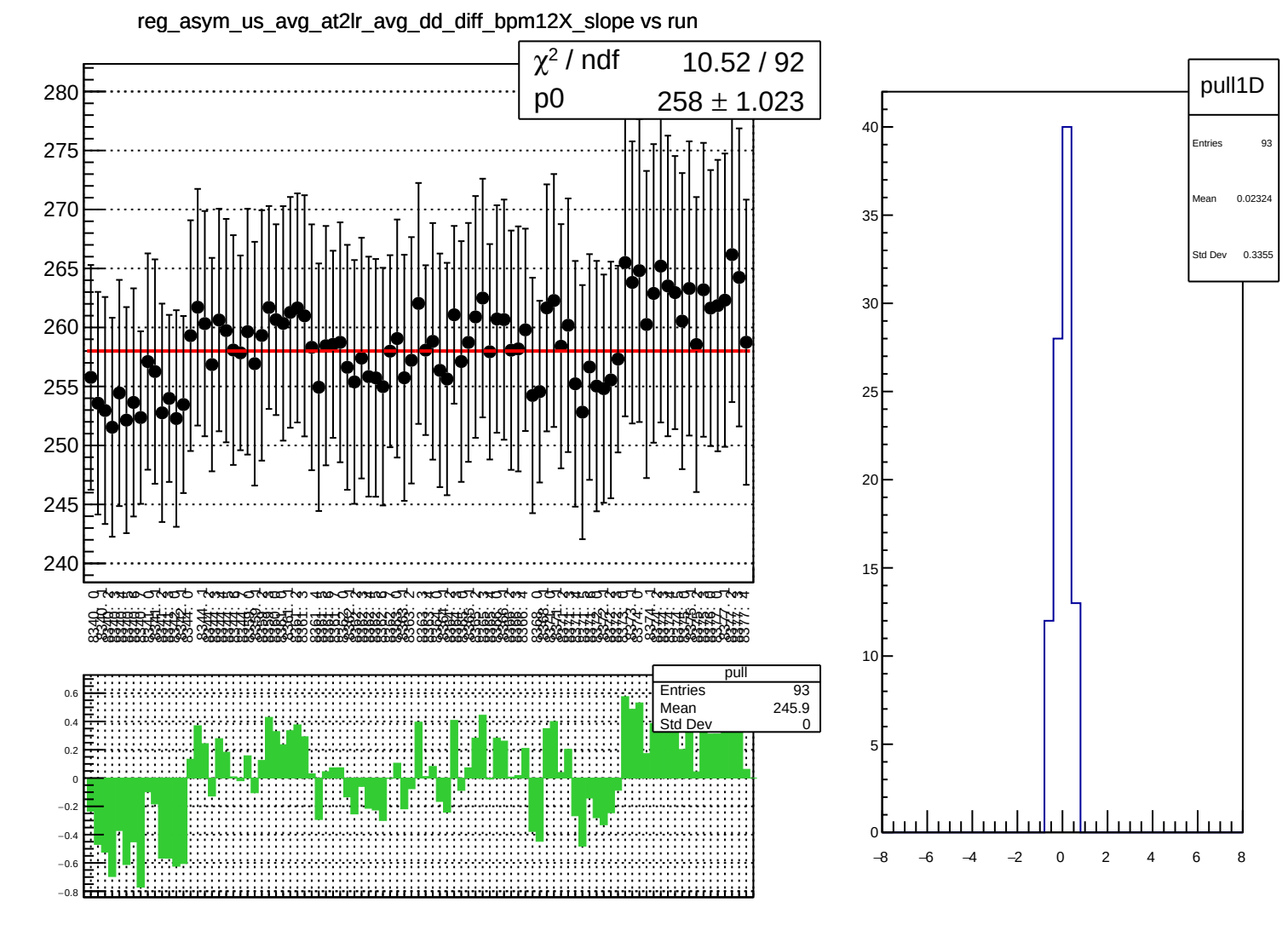

pull1D
Entries 93
Mean −0.02921
Std Dev 0.3738
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

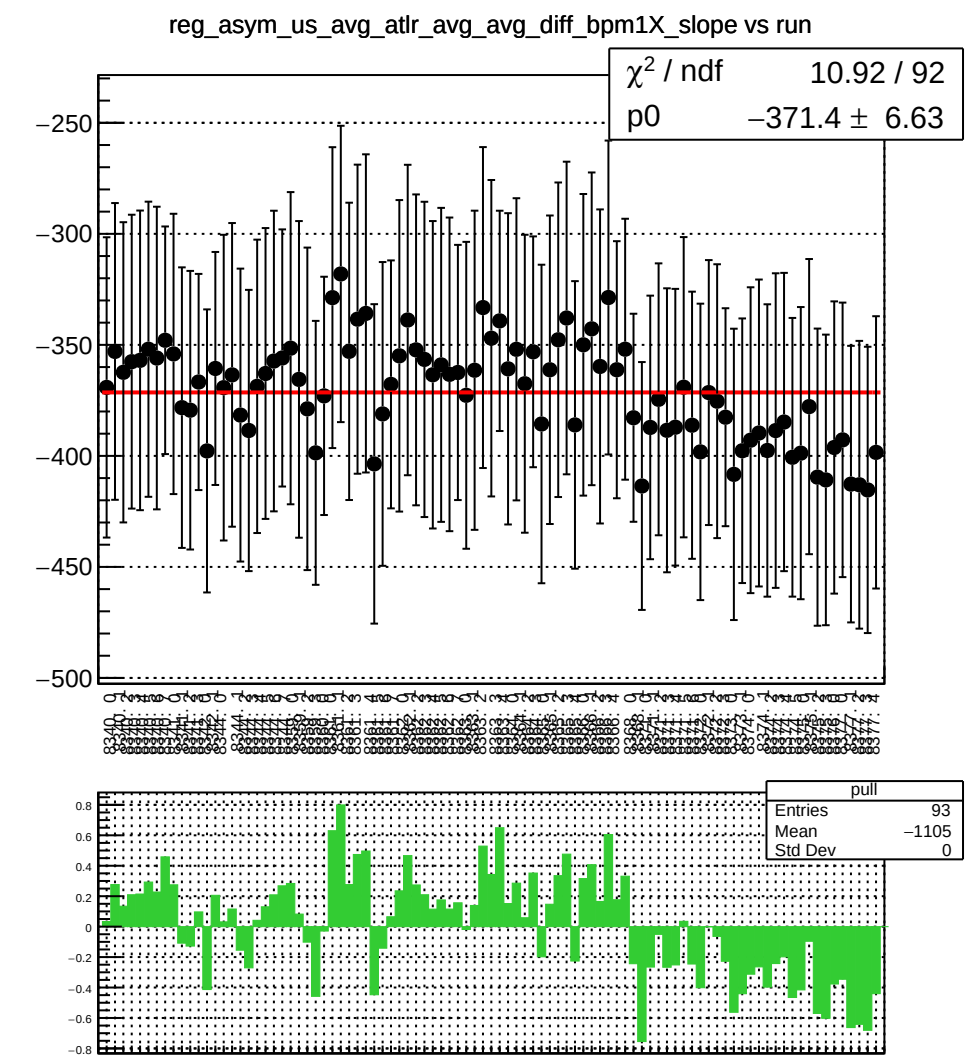

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 7.413 / 92
p0 469.5 ± 8.319
600
550
500
450
400
350
pull
Entries 93
Mean −875.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean −0.005082
Std Dev 0.2823
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

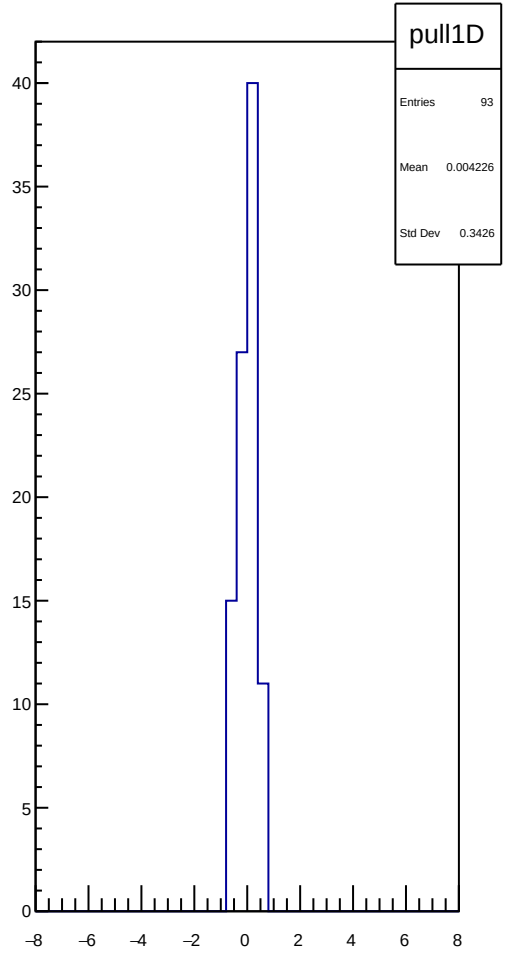

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.884 / 92
p0 −75.05 ± 16.53
200
100
0
−100
−200
−300
pull
Entries 93
Mean 353.3
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 93
Mean 0.0005238
Std Dev 0.1761
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

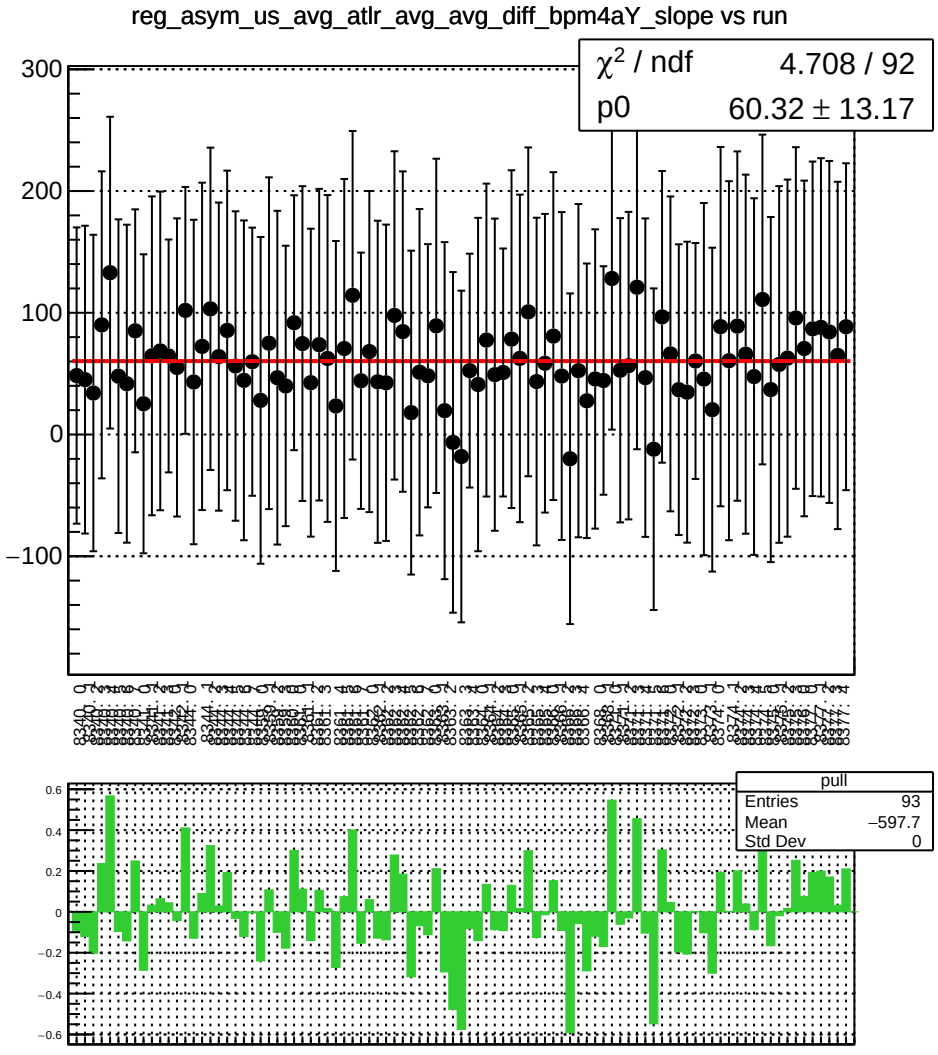

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.217 / 92
p0 −434.5 ± 9.554
−300
−350
−400
−450
−500
−550
−600
pull
Entries 93
Mean −1494
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.002216
Std Dev 0.2368
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

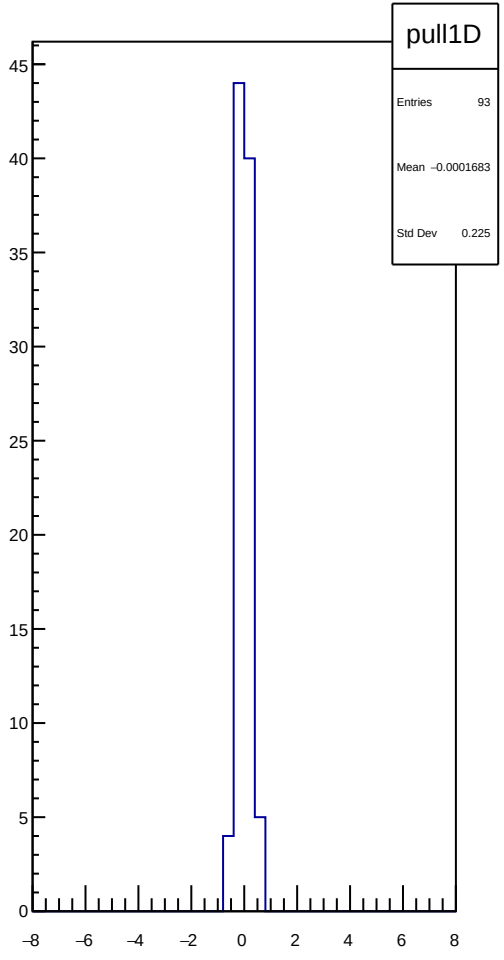

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.936 / 92
p0 −38.85 ± 17.08
200
100
0
−100
−200
−300
pull
Entries 93
Mean 1240
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.0003174
Std Dev 0.1777
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

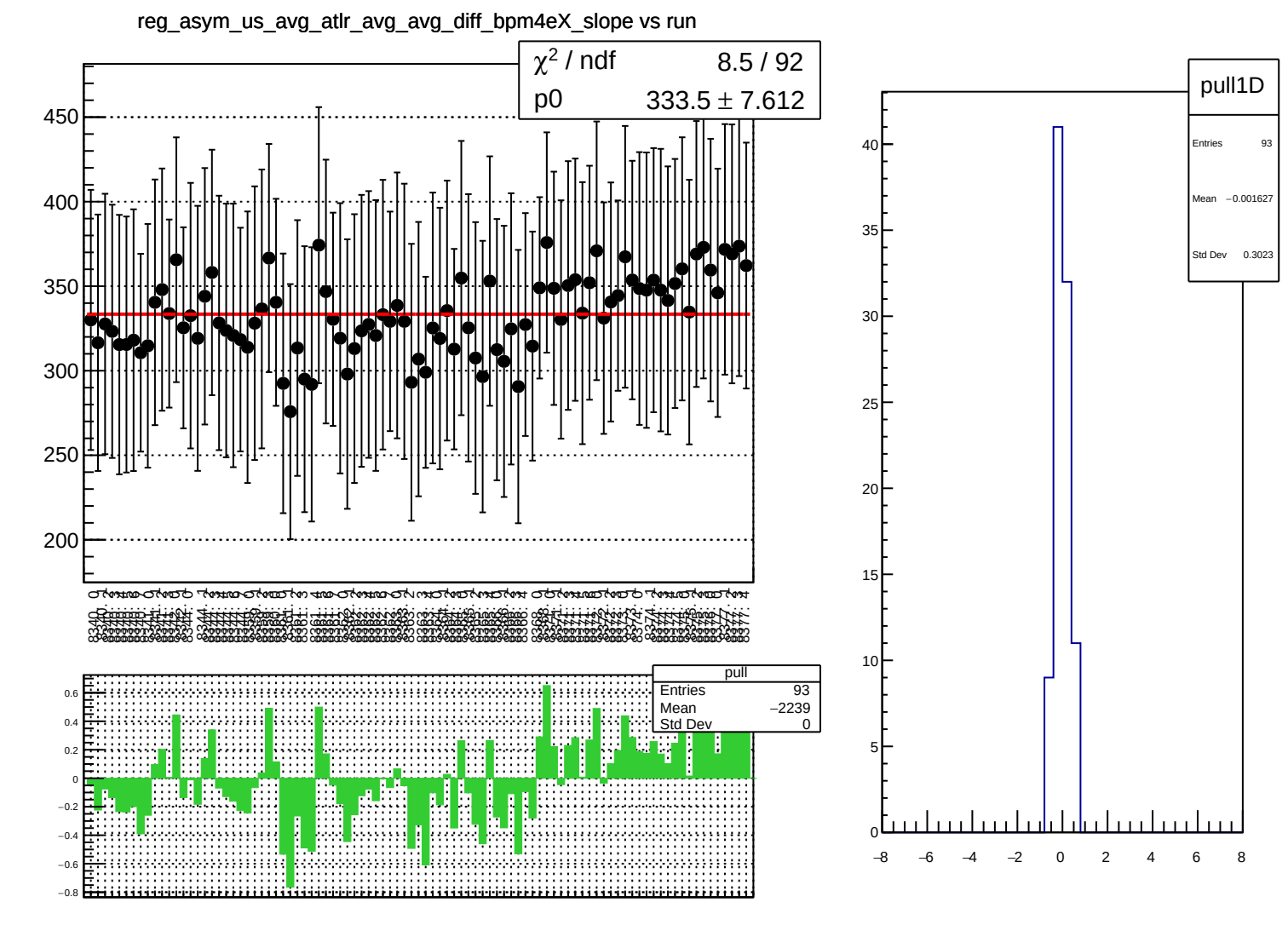

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 10.52 / 92
p0 258 ± 1.023
pull
Entries 93
Mean 245.9
Std Dev 0
pull1D
Entries 93
Mean 0.02324
Std Dev 0.3355

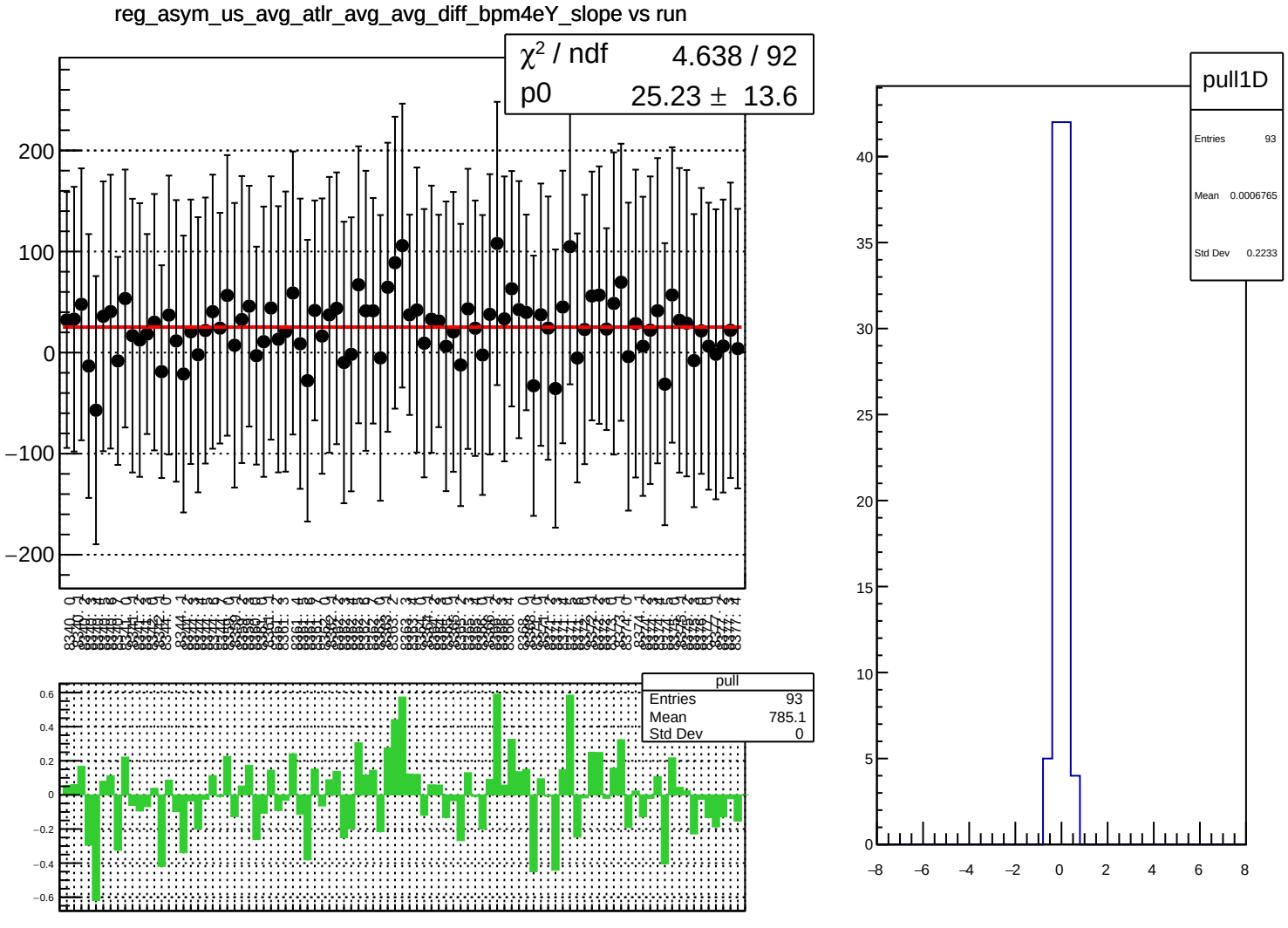

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 10.92 / 92
p0 −371.4 ± 6.63
−250
−300
−350
−400
−450
−500
pull
Entries 93
Mean −1105
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

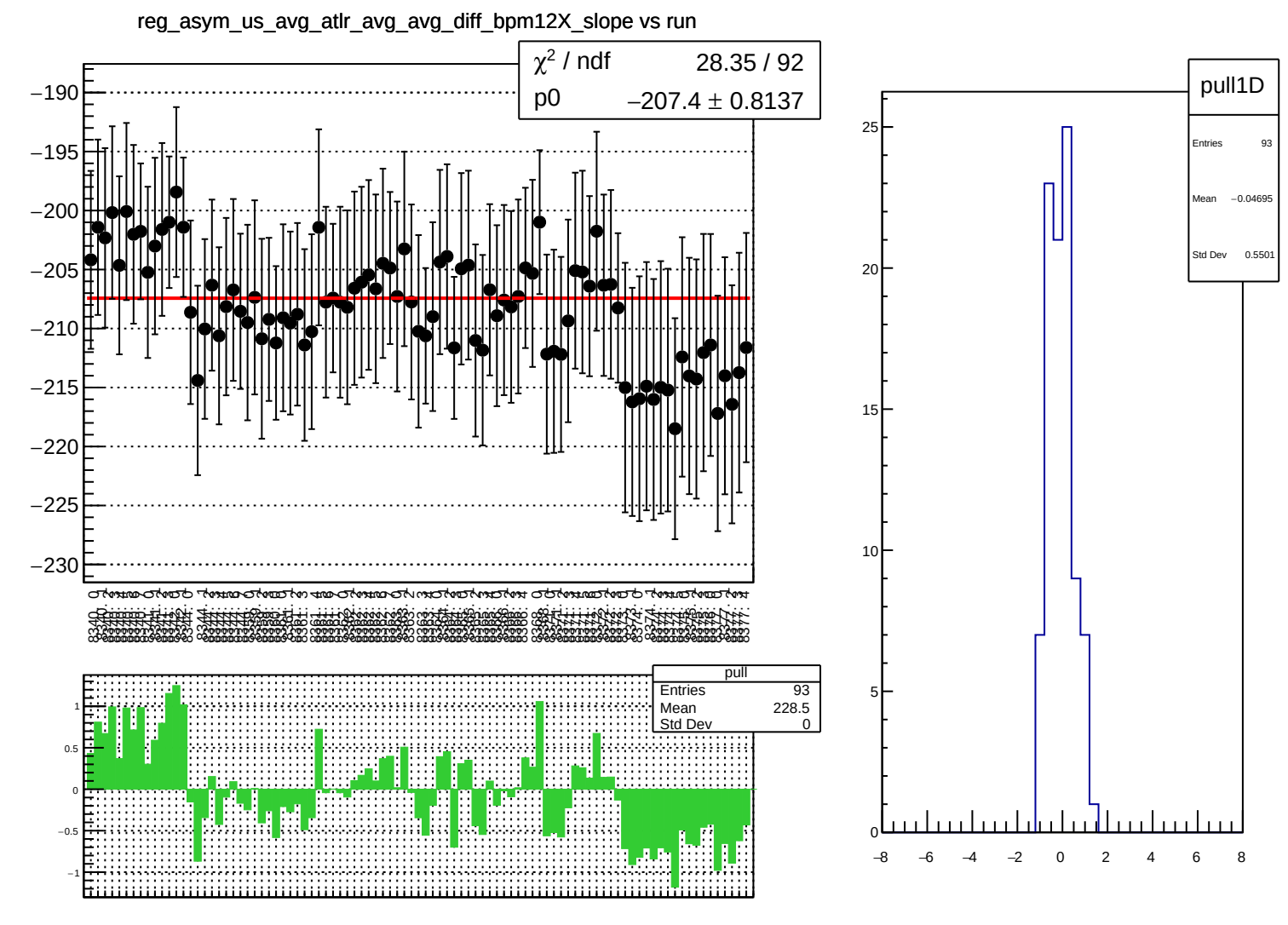

pull1D
Entries 93
Mean 0.004226
Std Dev 0.3426
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

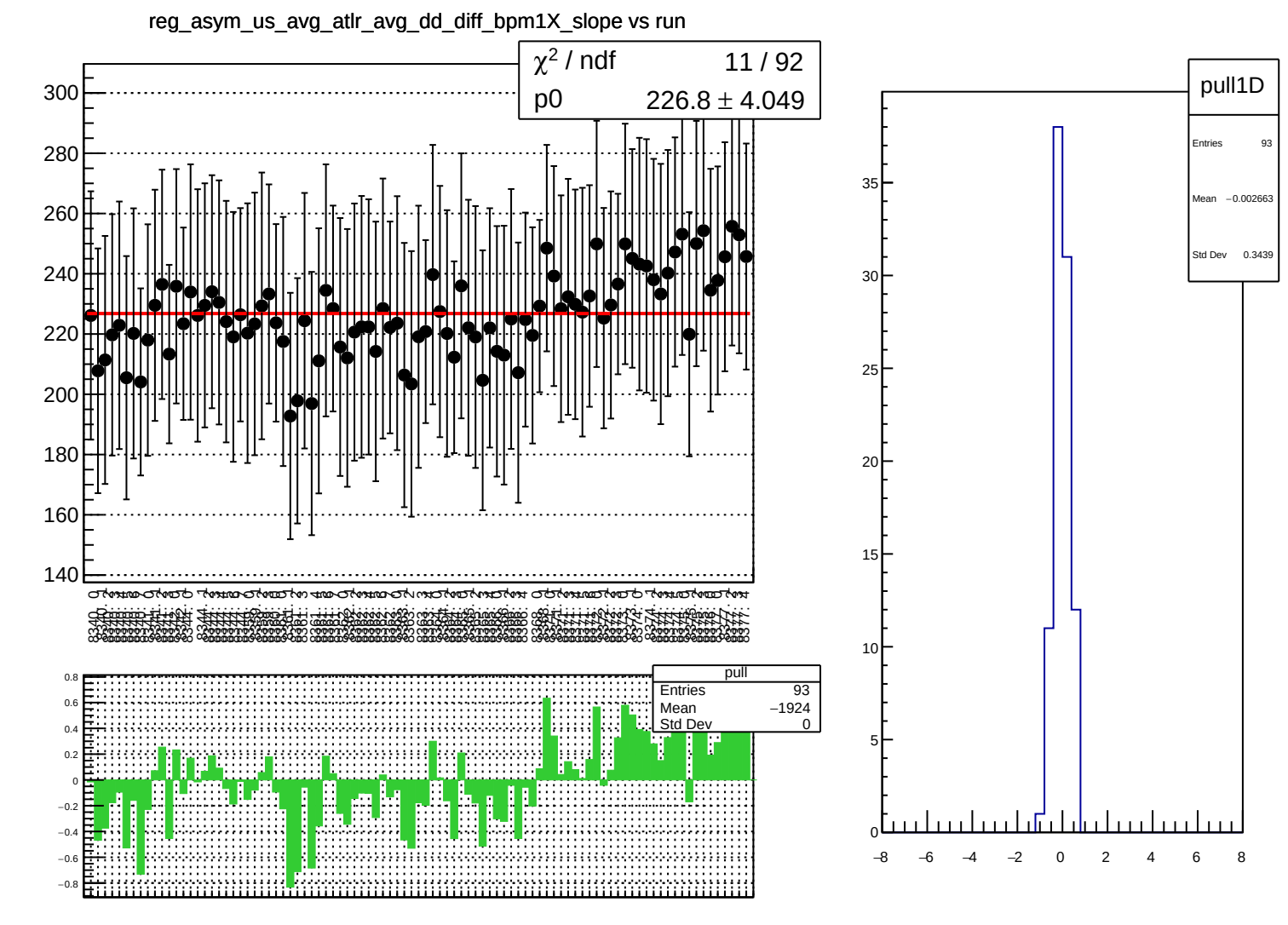

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.708 / 92
p0 60.32 ± 13.17
300
200
100
0
−100
pull
Entries 93
Mean −597.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

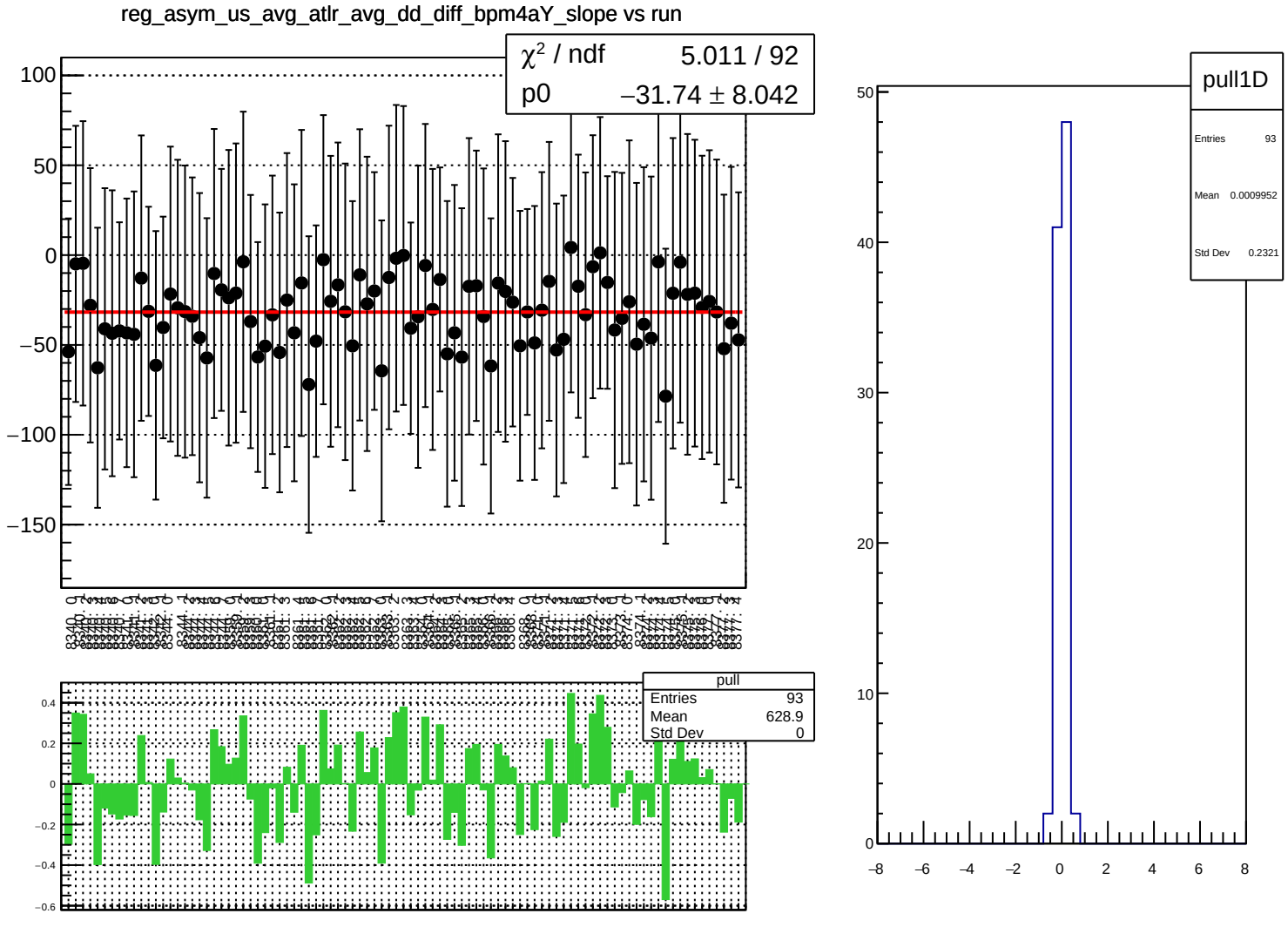

pull1D
Entries 93
Mean −0.0001683
Std Dev 0.225
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

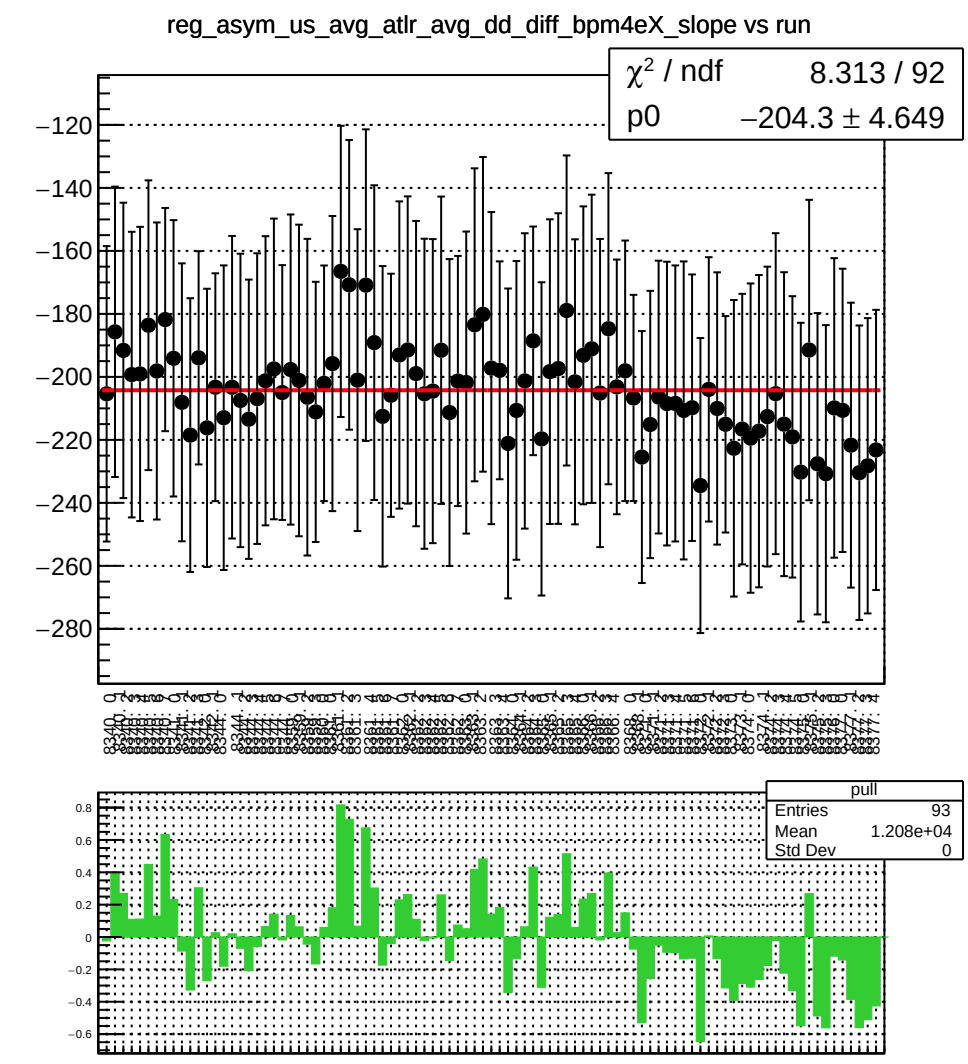

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.5 / 92
p0 333.5 ± 7.612
pull
Entries 93
Mean −2239
Std Dev 0
pull1D
Entries 93
Mean −0.001627
Std Dev 0.3023

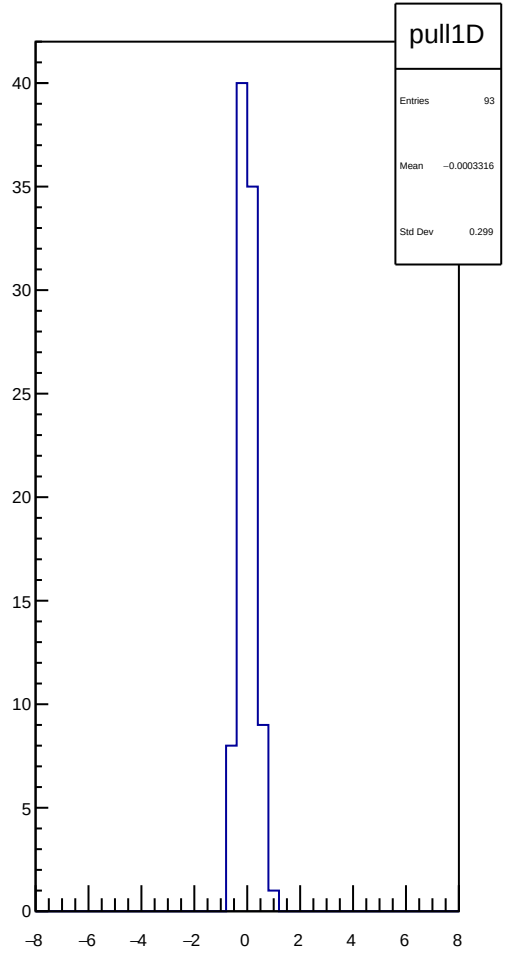

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.638 / 92
p0 25.23 ± 13.6
200
100
0
−100
−200
pull
Entries 93
Mean 785.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 93
Mean 0.0006765
Std Dev 0.2233
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

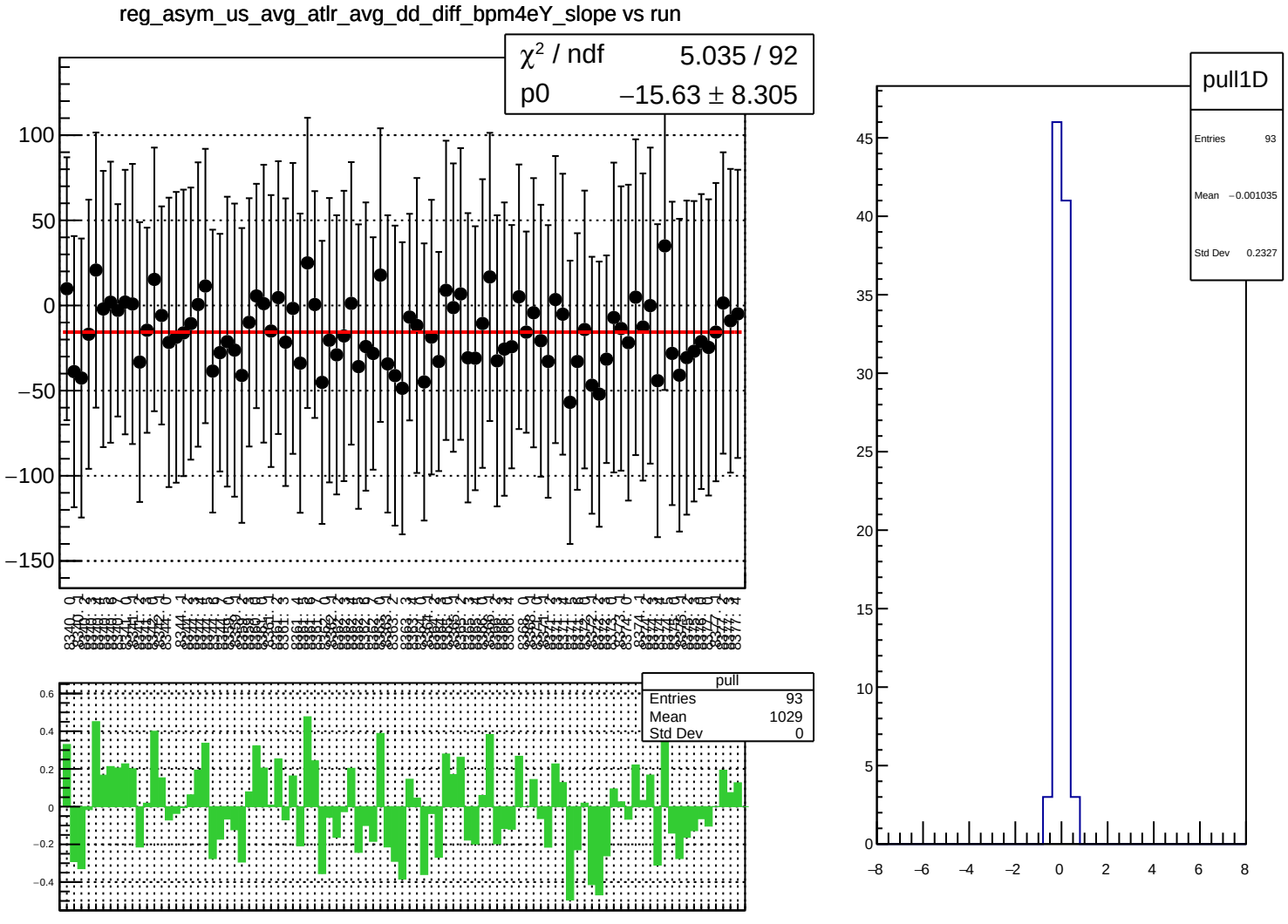

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 28.35 / 92
p0 −207.4 ± 0.8137
pull
Entries 93
Mean 228.5
Std Dev 0
pull1D
Entries 93
Mean −0.04695
Std Dev 0.5501

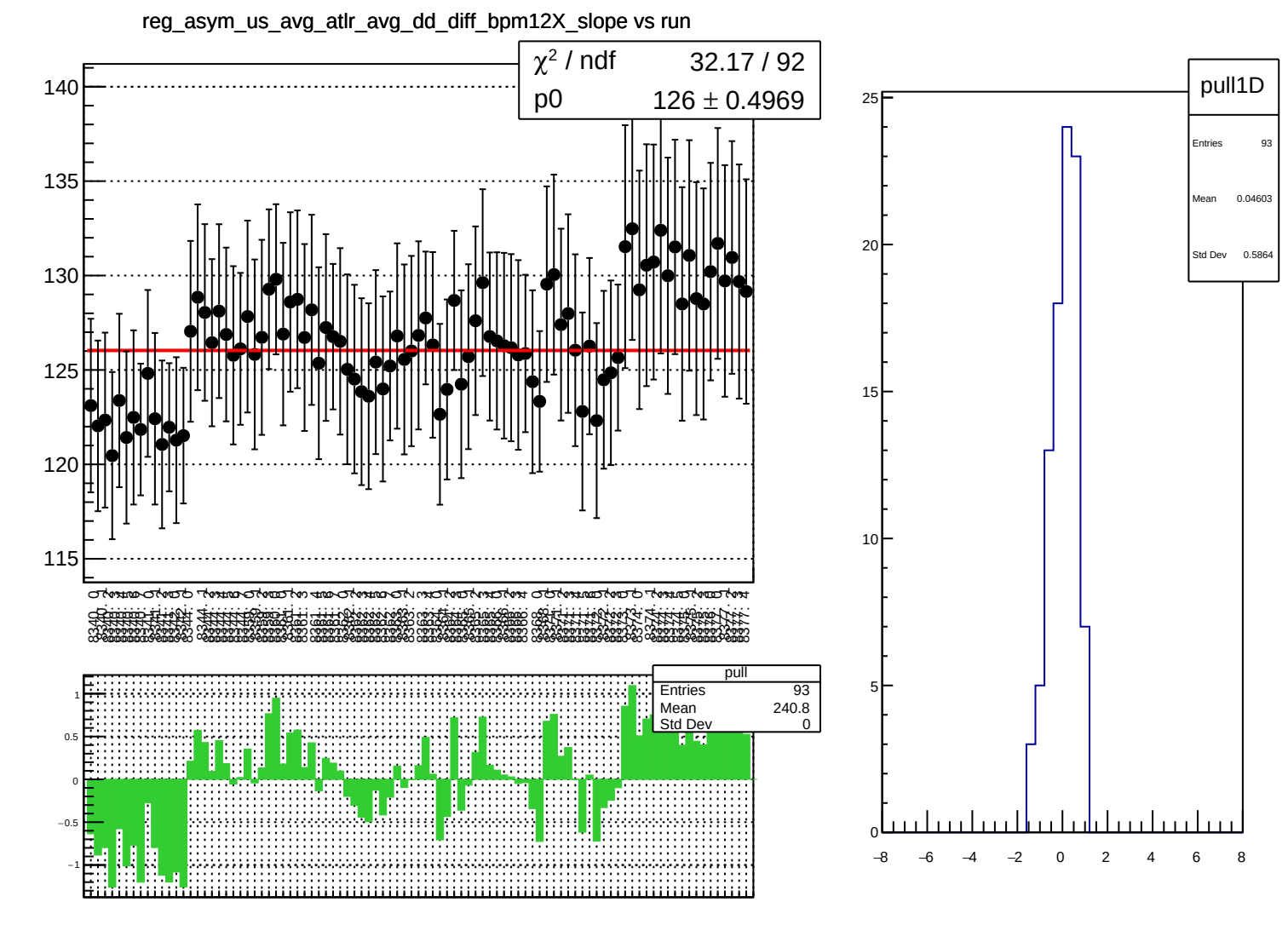

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11 / 92
p0 226.8 ± 4.049
pull
Entries 93
Mean −1924
Std Dev 0
pull1D
Entries 93
Mean −0.002663
Std Dev 0.3439

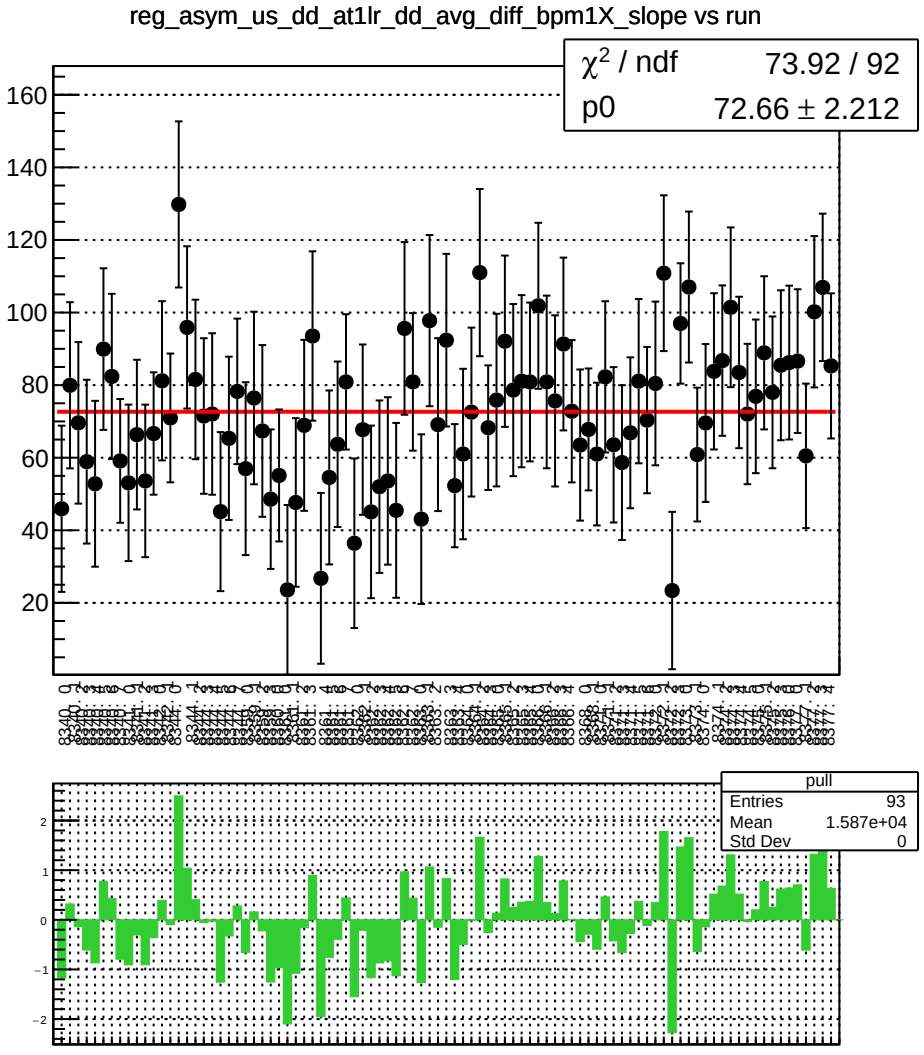

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.011 / 92
p0 −31.74 ± 8.042
pull
Entries 93
Mean 628.9
Std Dev 0
pull1D
Entries 93
Mean 0.0009952
Std Dev 0.2321

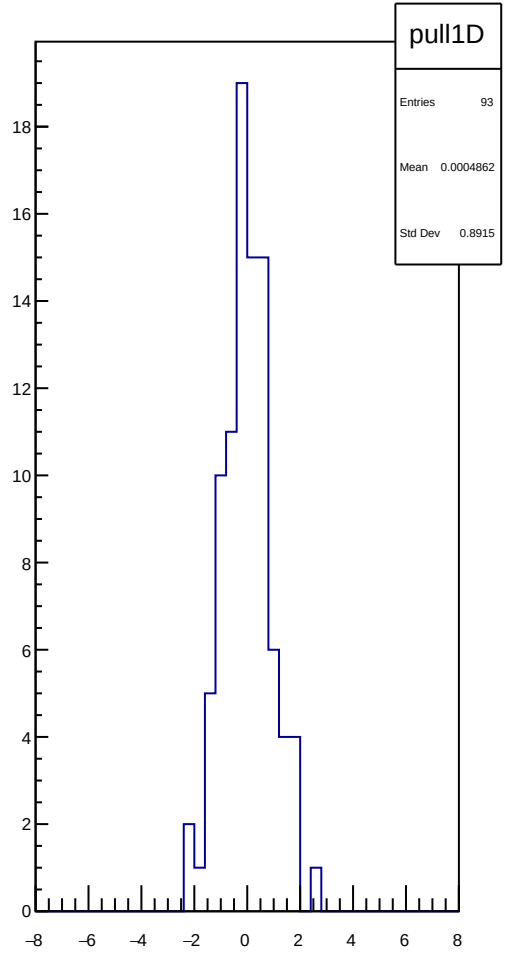

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.313 / 92
p0 −204.3 ± 4.649
−120
−140
−160
−180
−200
−220
−240
−260
−280
pull
Entries 93
Mean 1.208e+04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

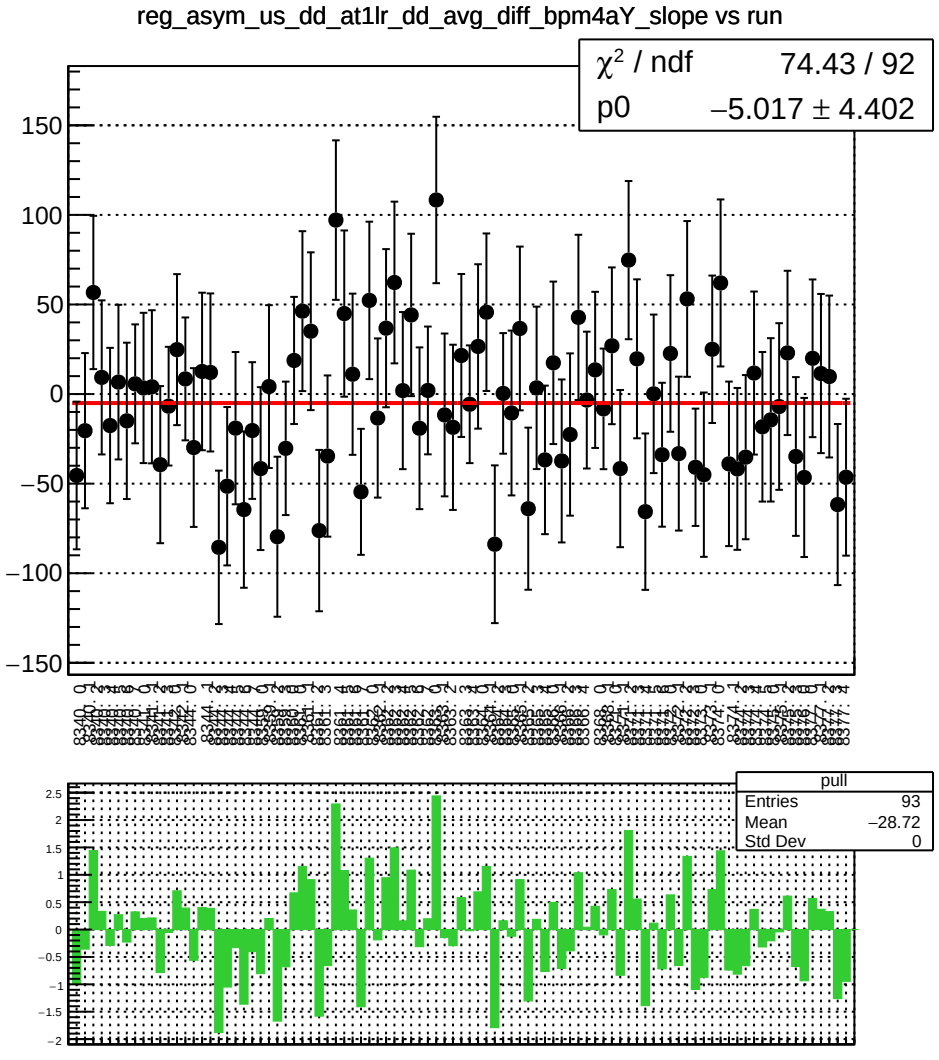

pull1D
Entries 93
Mean −0.0003316
Std Dev 0.299
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

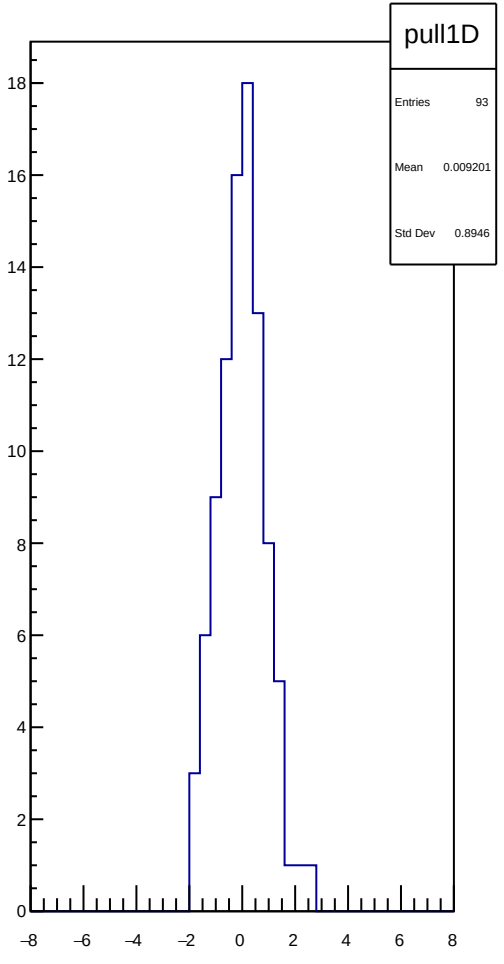

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.035 / 92
p0 −15.63 ± 8.305
100
50
0
−50
−100
−150
pull
Entries 93
Mean 1029
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 93
Mean −0.001035
Std Dev 0.2327
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

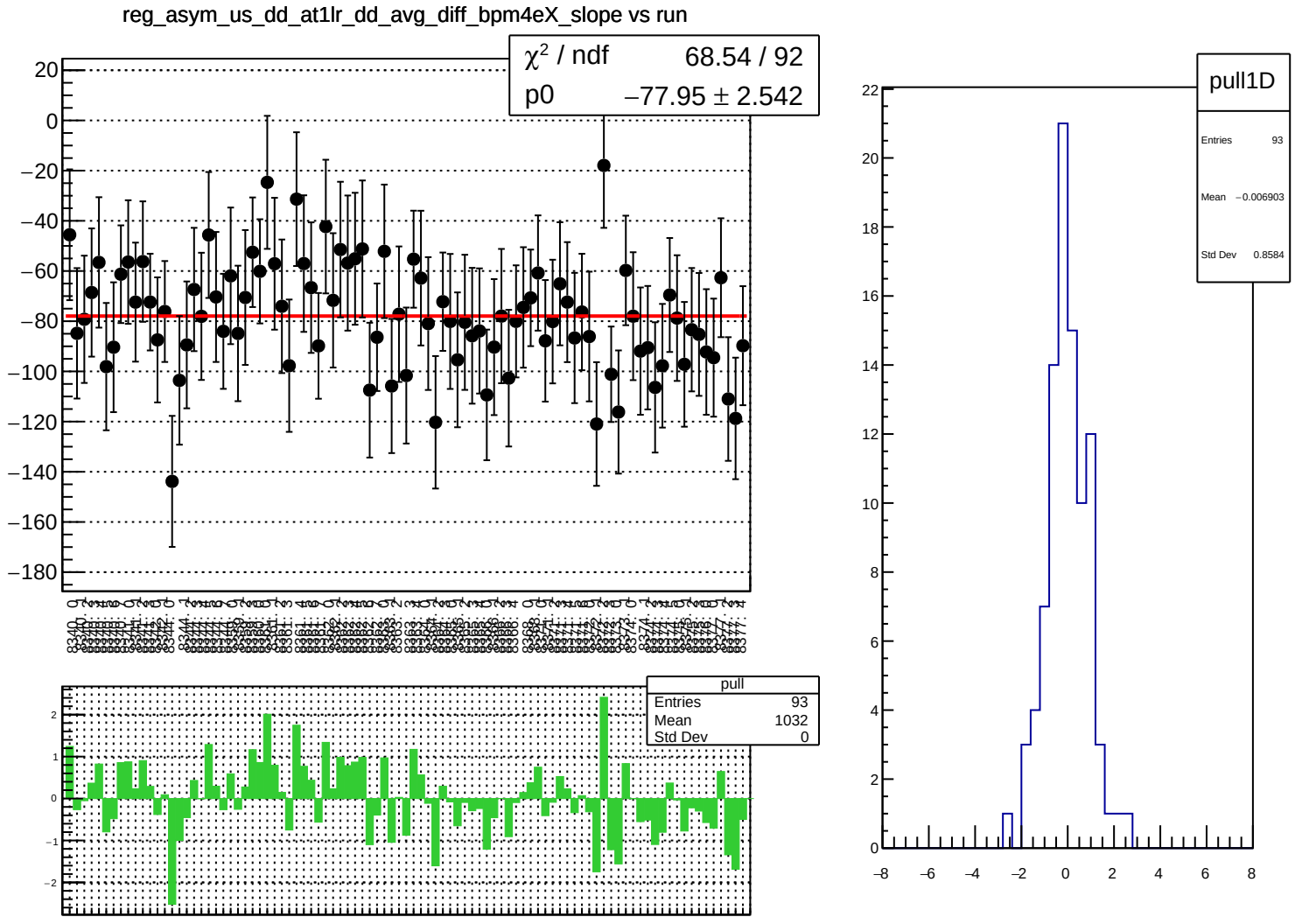

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 32.17 / 92
p0 126 ± 0.4969
140
135
130
125
120
115
pull
Entries 93
Mean 240.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.04603
Std Dev 0.5864
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

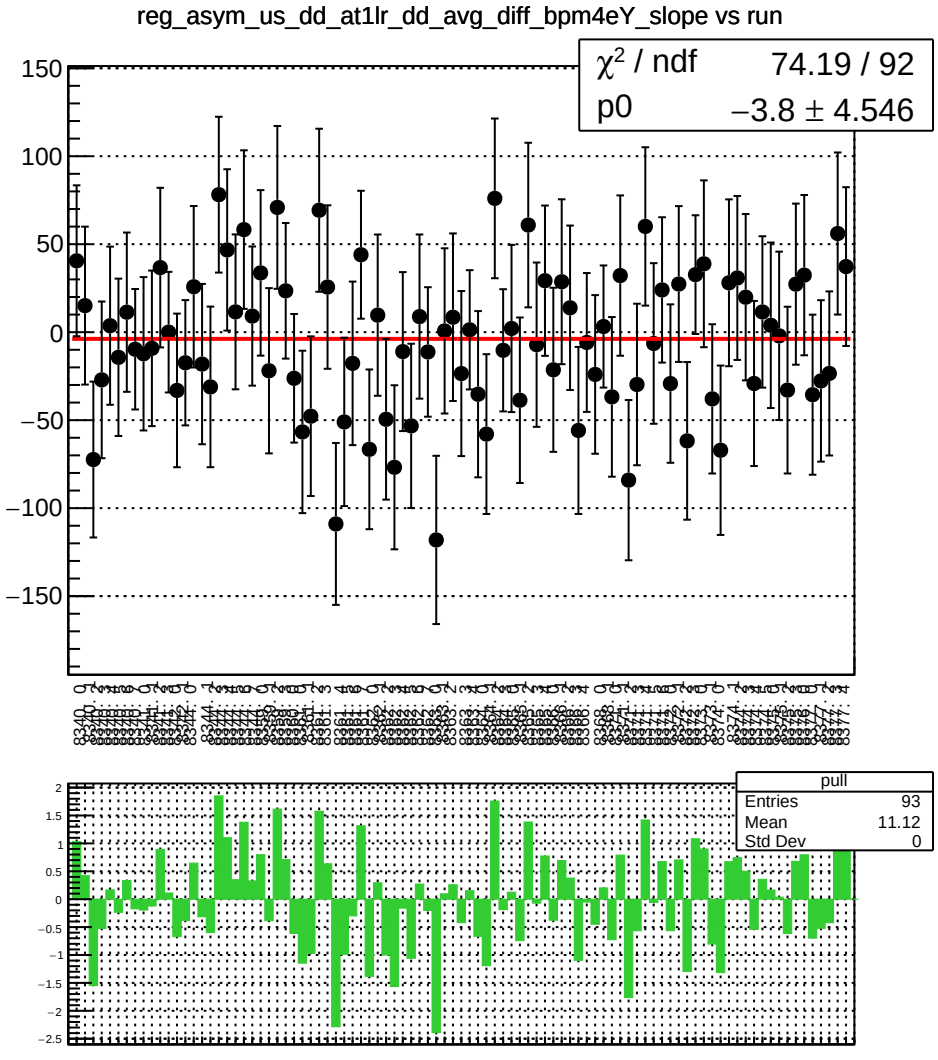

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 73.92 / 92
p0 72.66 ± 2.212
pull
Entries 93
Mean 1.587e+04
Std Dev 0

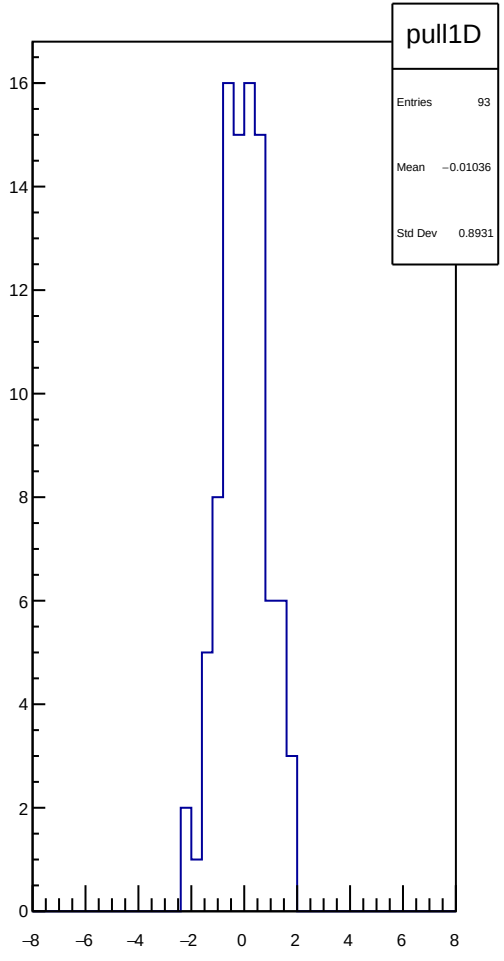

pull1D
Entries 93
Mean 0.0004862
Std Dev 0.8915

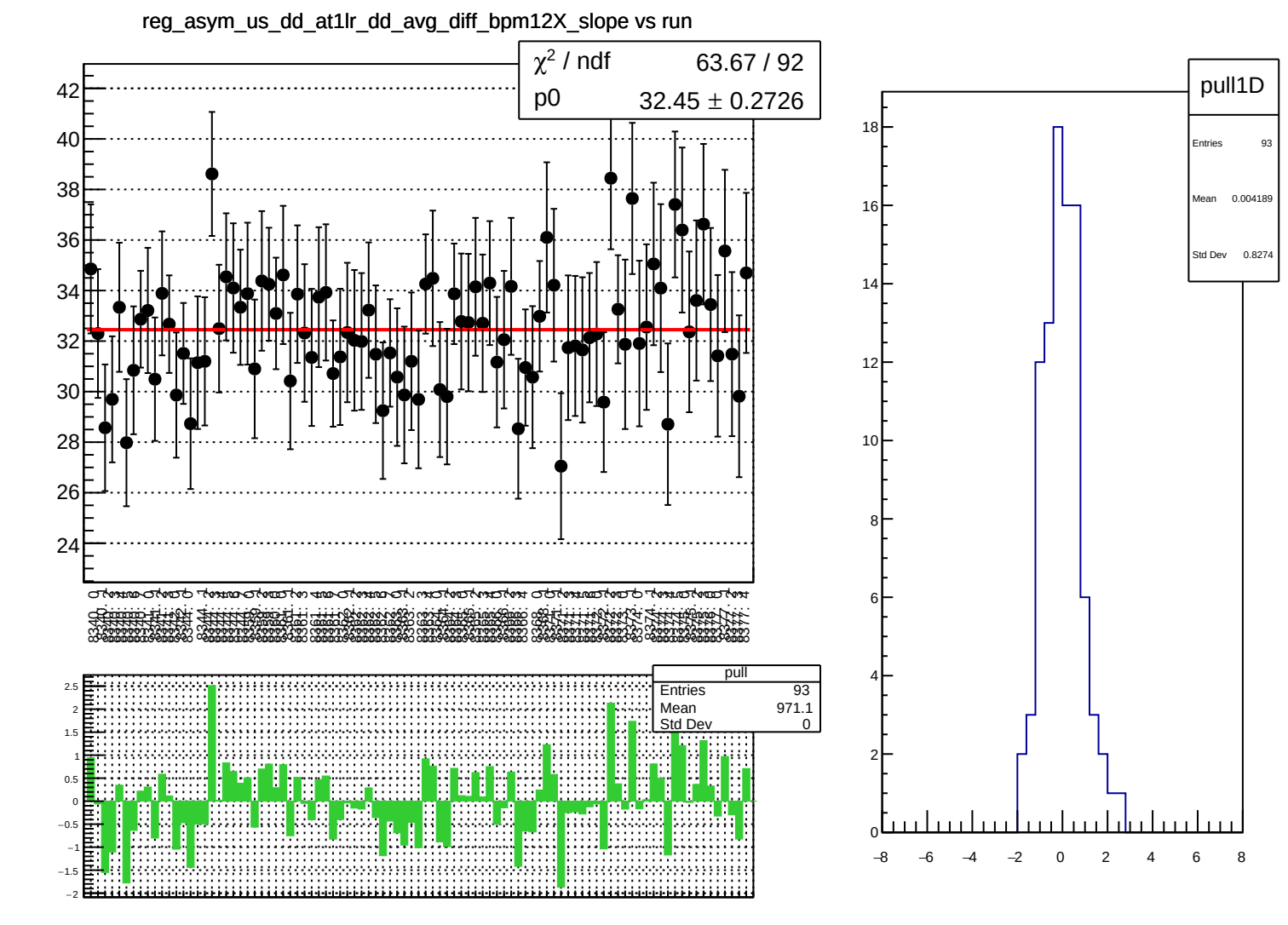

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.43 / 92
p0 −5.017 ± 4.402
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −28.72
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

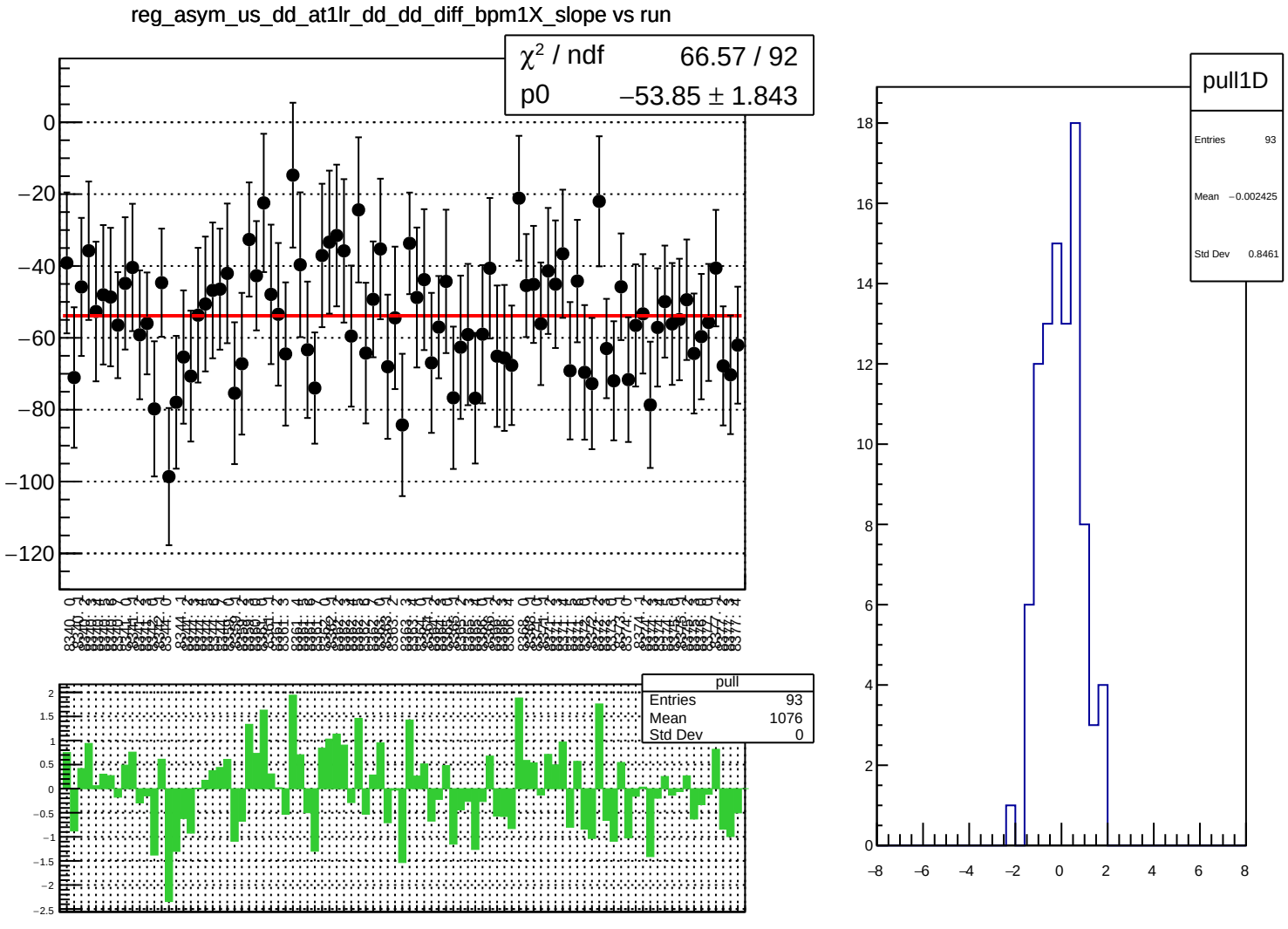

pull1D
Entries 93
Mean 0.009201
Std Dev 0.8946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

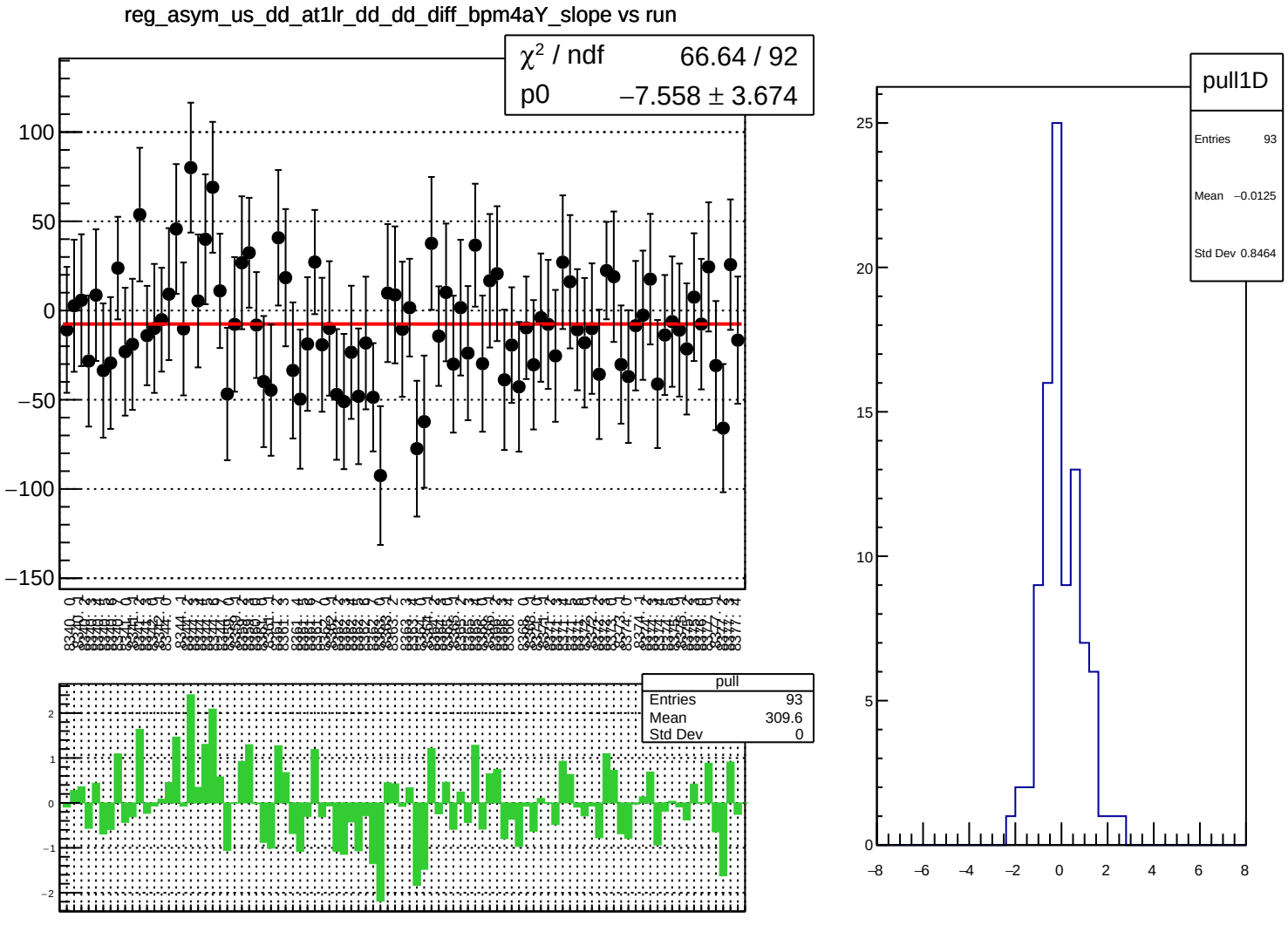

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 68.54 / 92
p0 −77.95 ± 2.542
pull
Entries 93
Mean 1032
Std Dev 0
pull1D
Entries 93
Mean −0.006903
Std Dev 0.8584

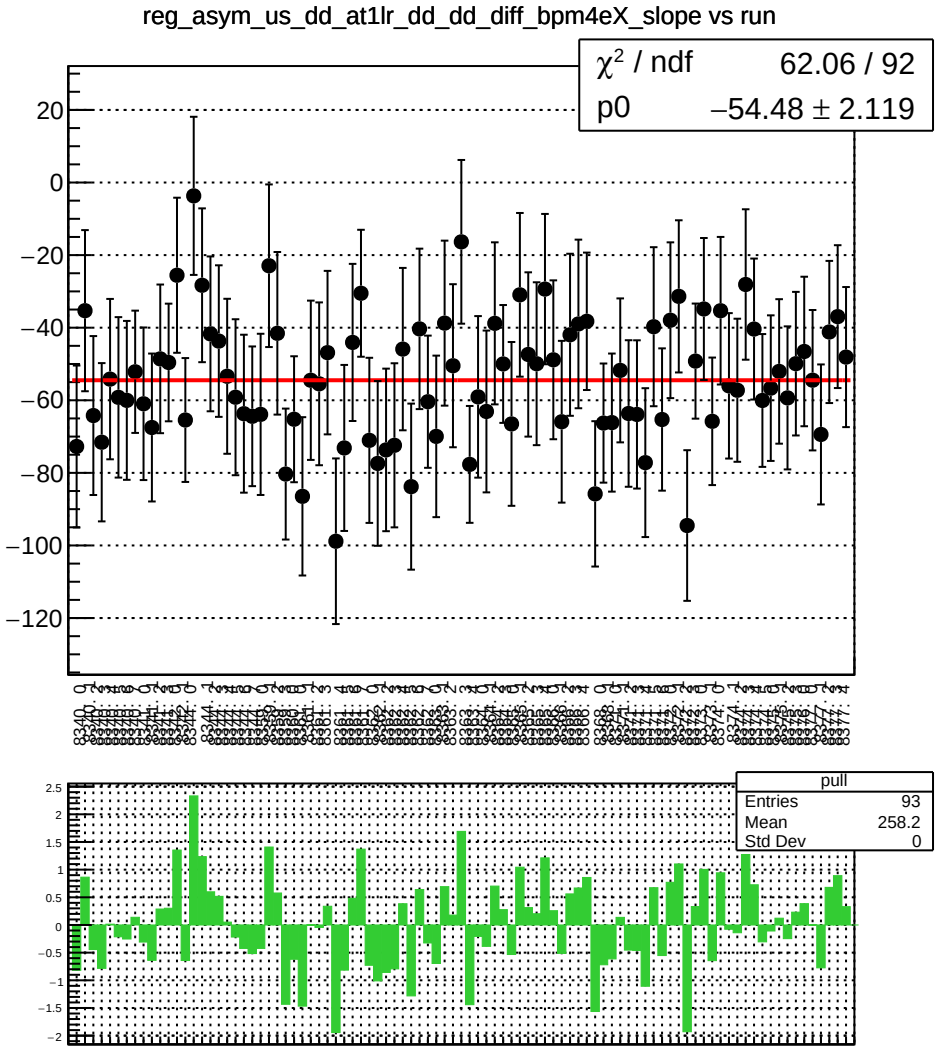

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.19 / 92
p0 −3.8 ± 4.546
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 11.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

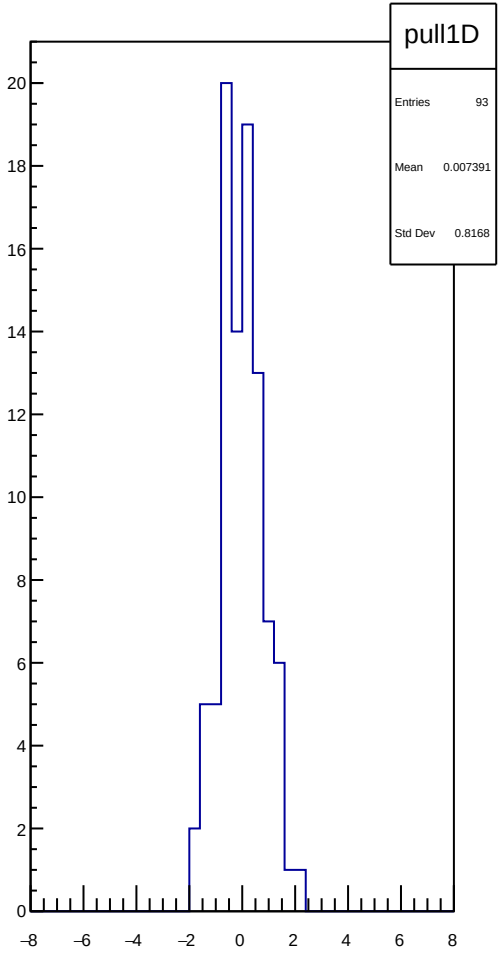

pull1D
Entries 93
Mean −0.01036
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

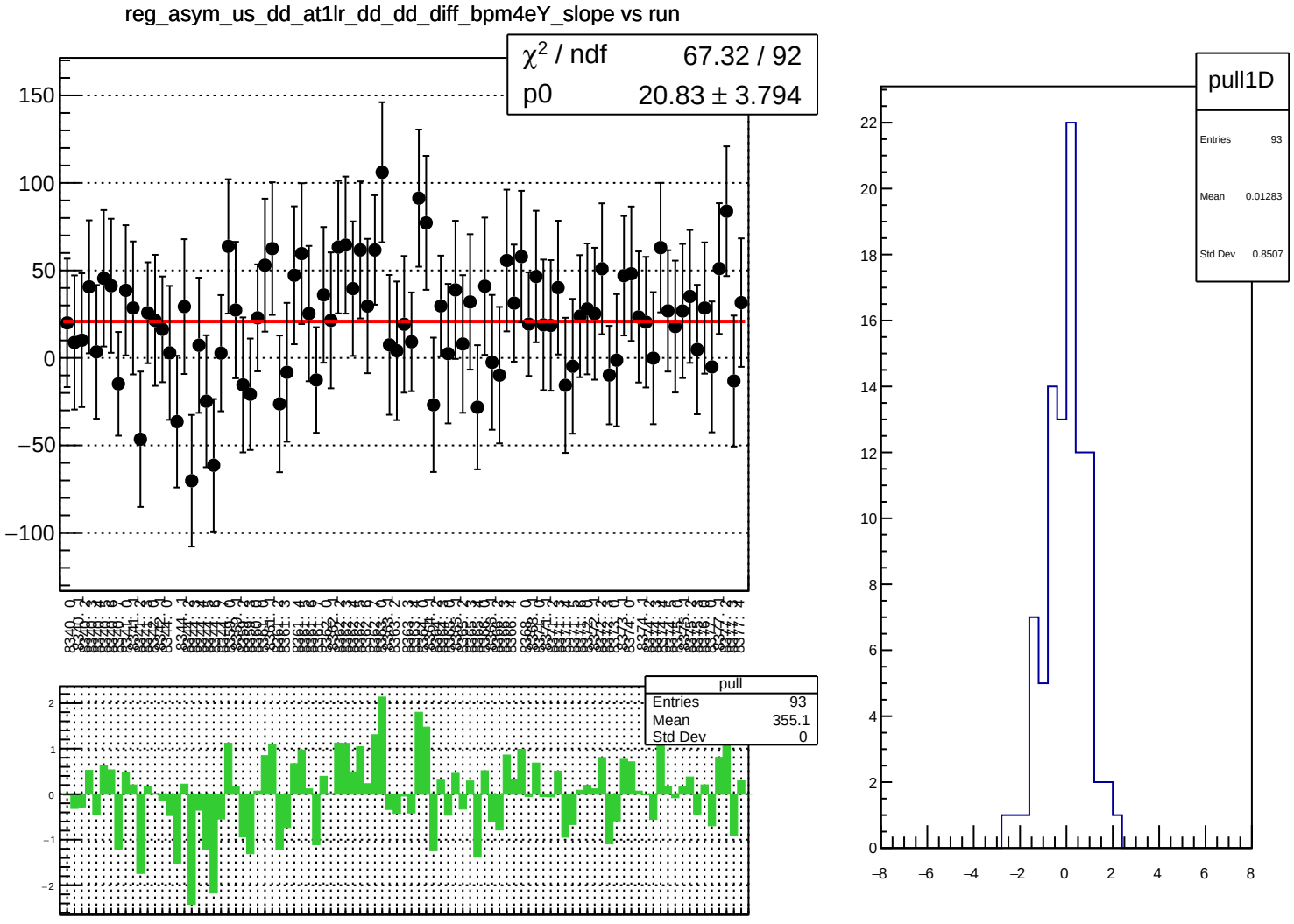

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 63.67 / 92
p0 32.45 ± 0.2726
pull
Entries 93
Mean 971.1
Std Dev 0
pull1D
Entries 93
Mean 0.004189
Std Dev 0.8274

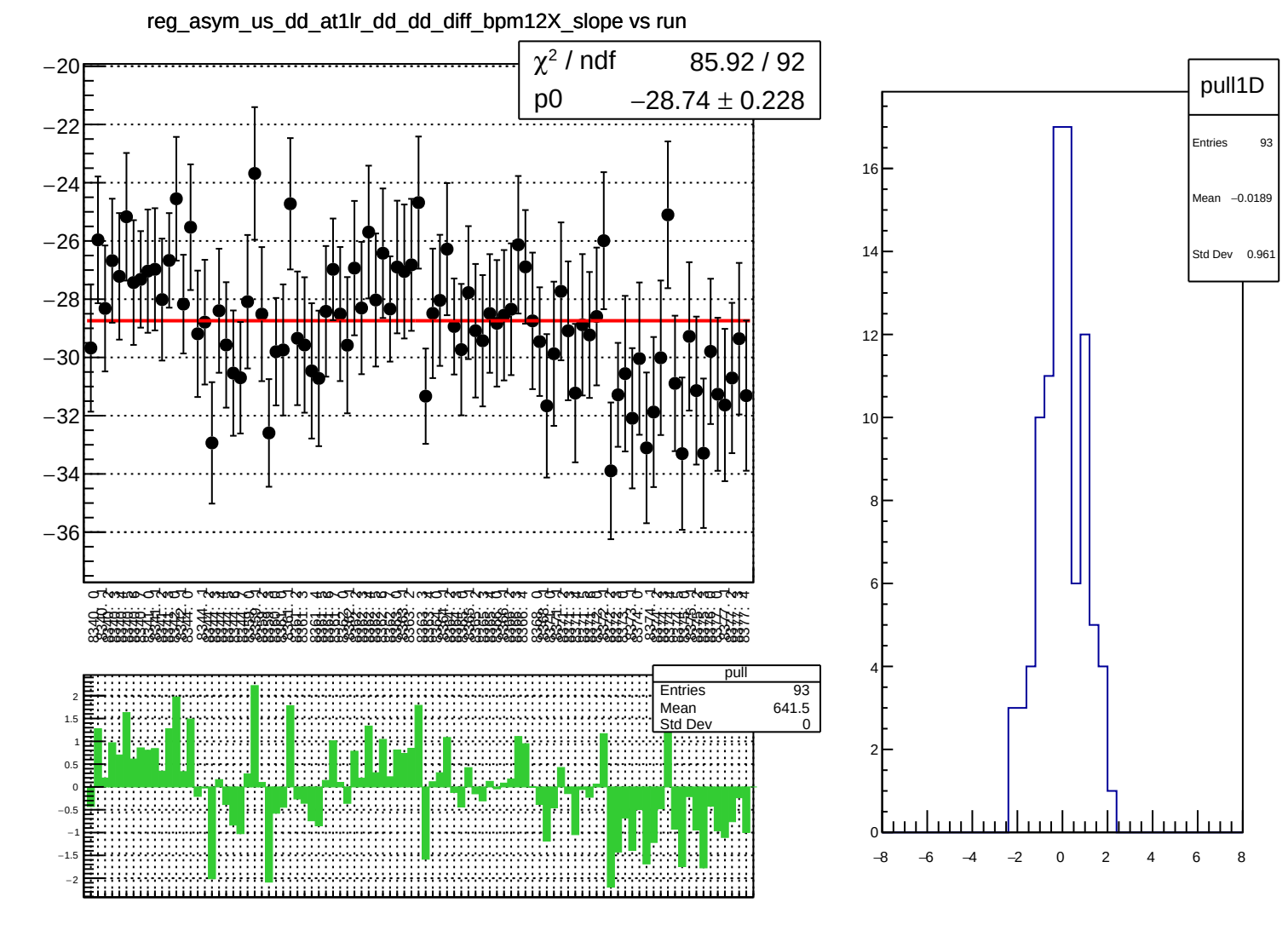

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 66.57 / 92
p0 −53.85 ± 1.843
pull
Entries 93
Mean 1076
Std Dev 0
pull1D
Entries 93
Mean −0.002425
Std Dev 0.8461

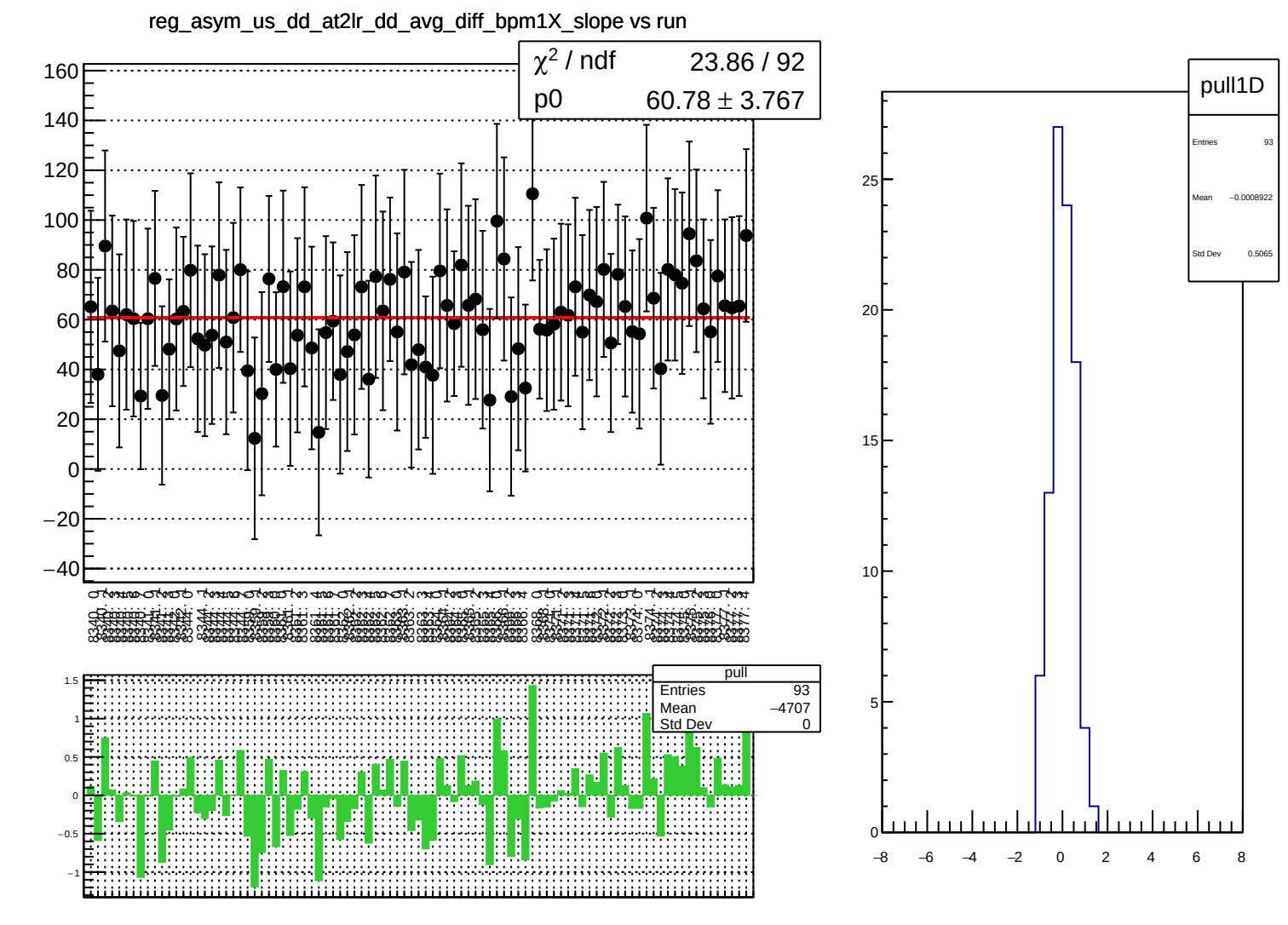

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.64 / 92
p0 −7.558 ± 3.674
100
50
0
−50
−100
−150
pull
Entries 93
Mean 309.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0125
Std Dev 0.8464
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

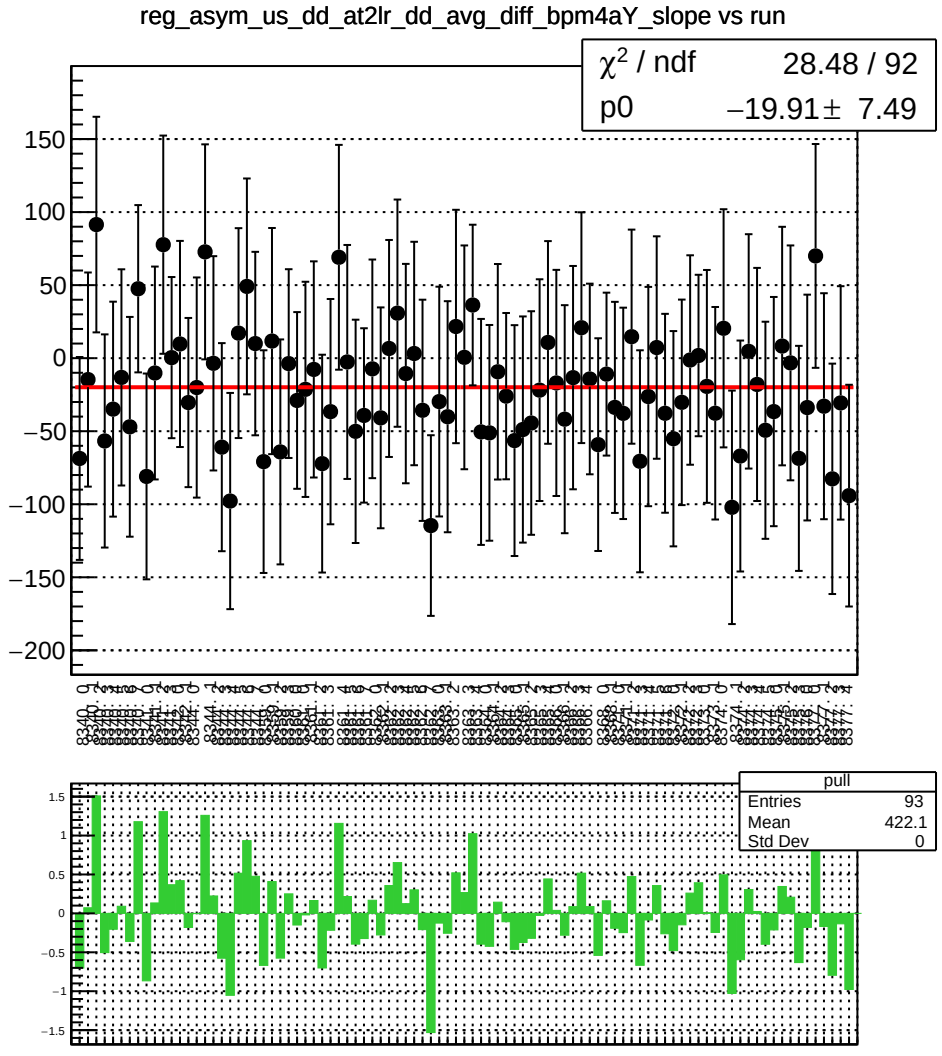

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 62.06 / 92
p0 −54.48 ± 2.119
pull
Entries 93
Mean 258.2
Std Dev 0

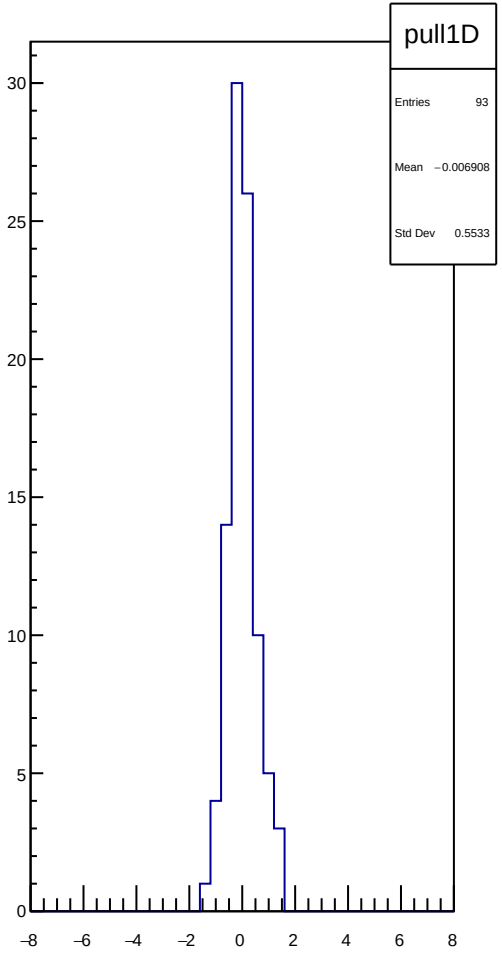

pull1D
Entries 93
Mean 0.007391
Std Dev 0.8168

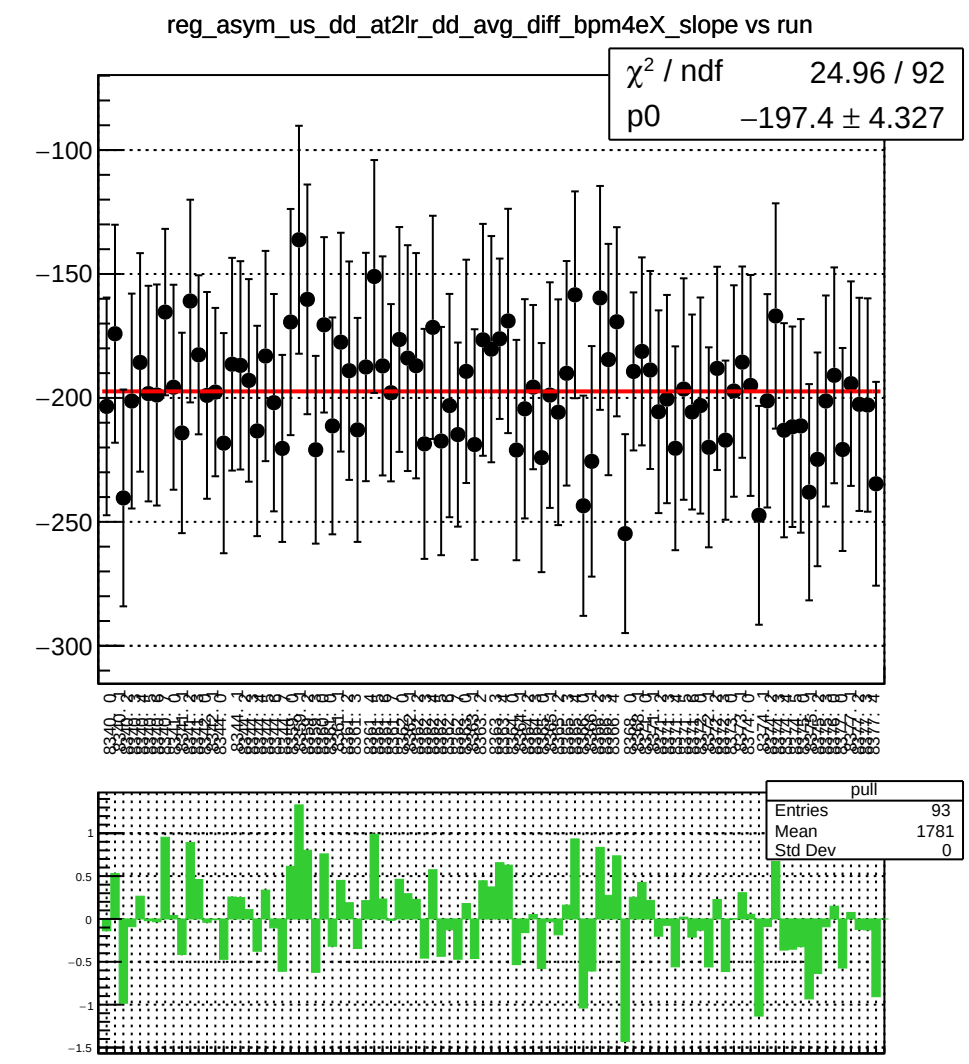

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 67.32 / 92
p0 20.83 ± 3.794
150
100
50
0
−50
−100
pull
Entries 93
Mean 355.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01283
Std Dev 0.8507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

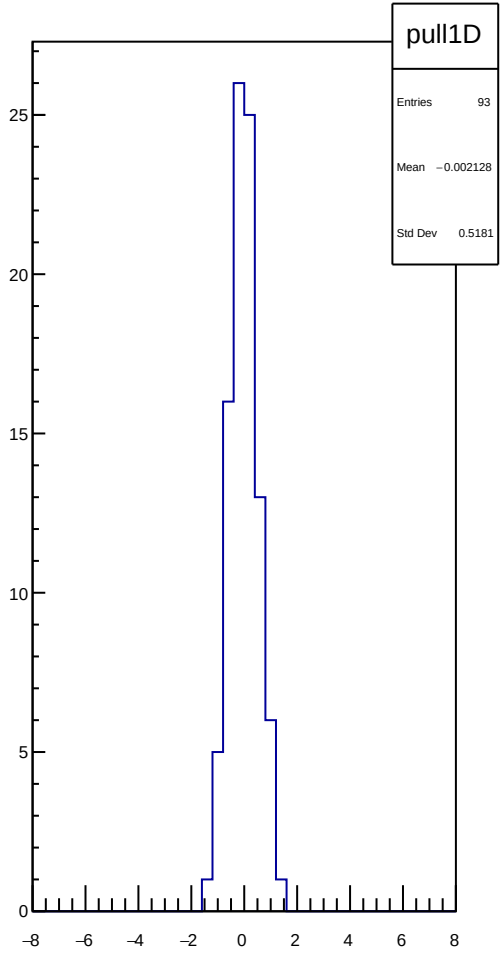

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 85.92 / 92
p0 −28.74 ± 0.228
pull
Entries 93
Mean 641.5
Std Dev 0
pull1D
Entries 93
Mean −0.0189
Std Dev 0.961

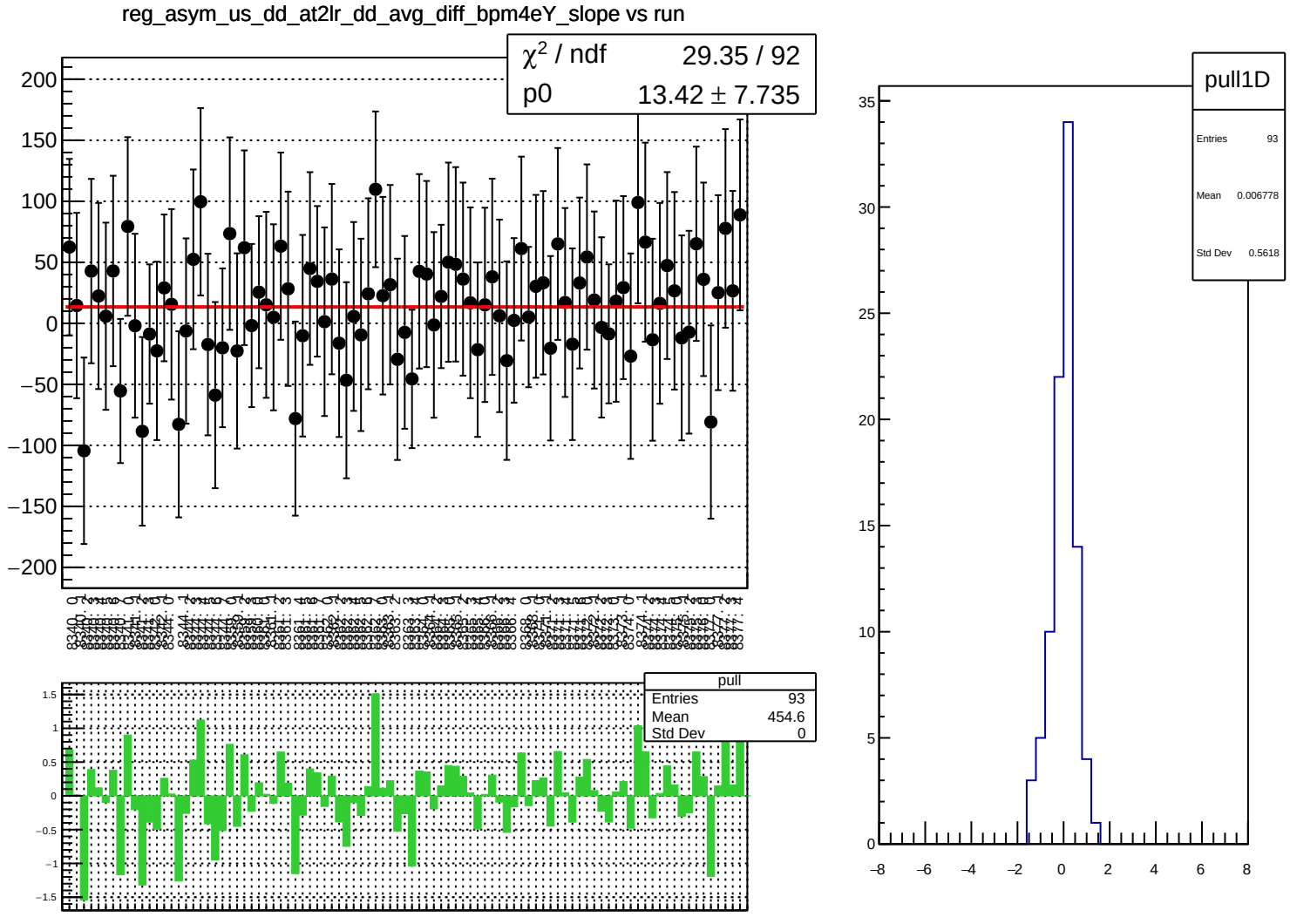

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.86 / 92
p0 60.78 ± 3.767
pull
Entries 93
Mean −4707
Std Dev 0
pull1D
Entries 93
Mean −0.0008922
Std Dev 0.5065

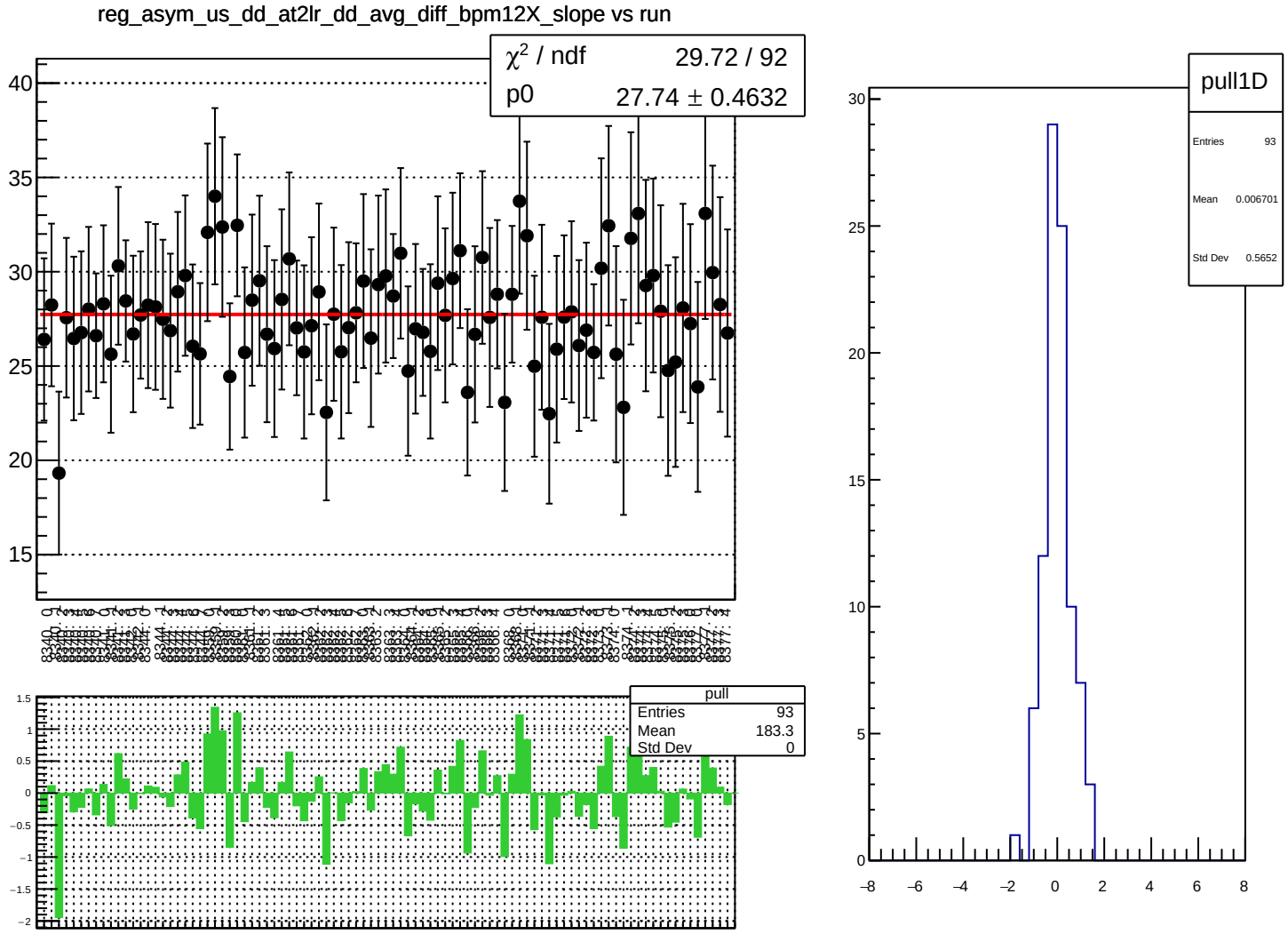

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.48 / 92
p0 −19.91± 7.49
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 422.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

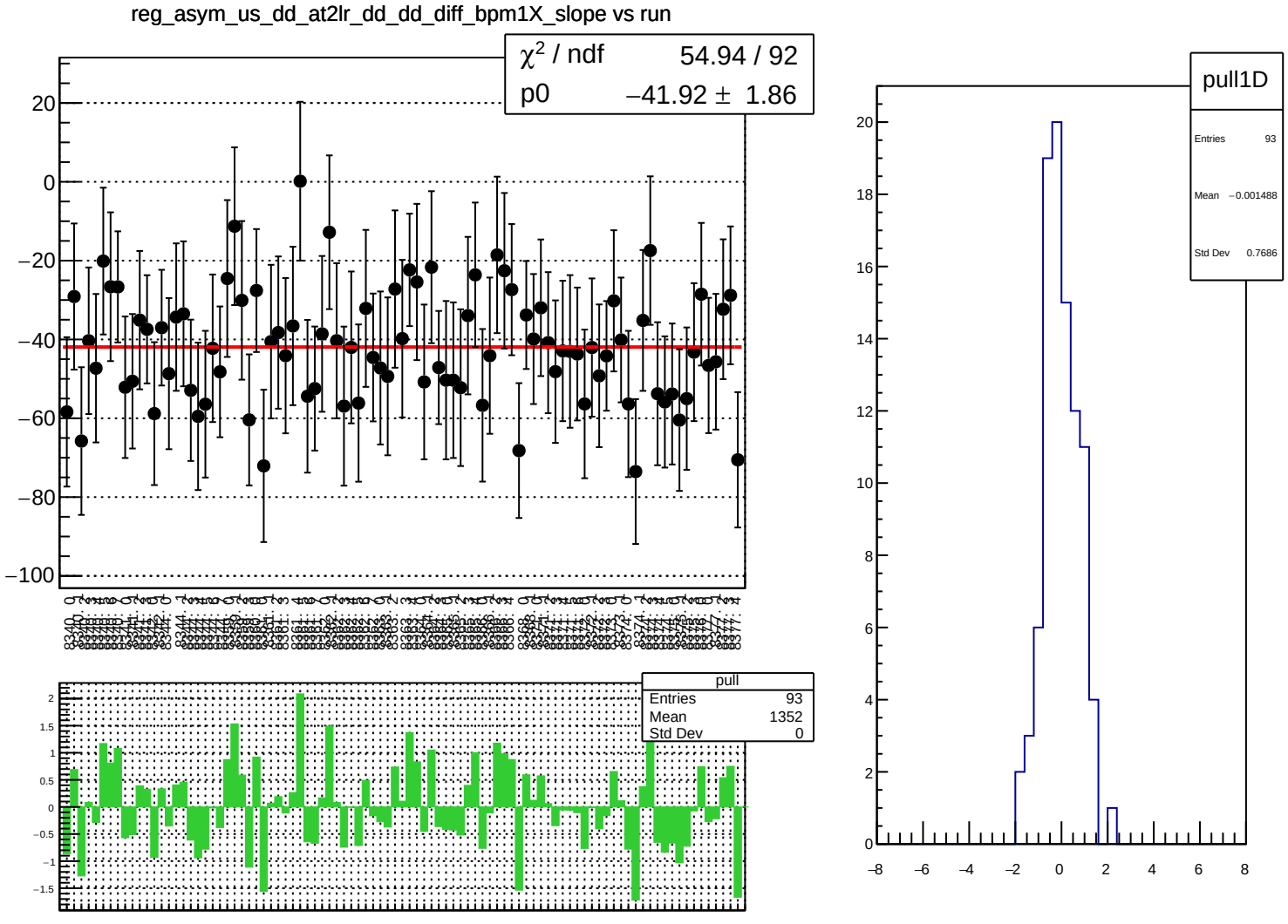

pull1D
Entries 93
Mean −0.006908
Std Dev 0.5533
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

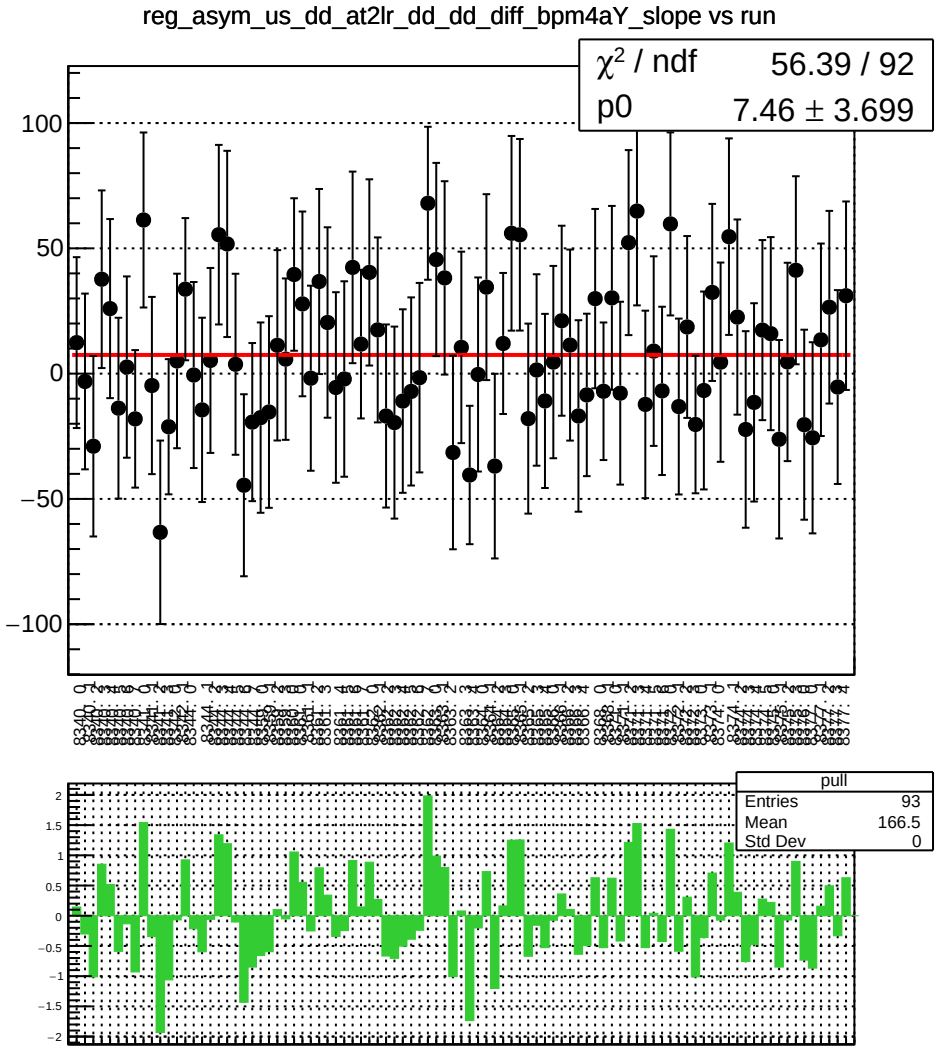

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 24.96 / 92
p0 −197.4 ± 4.327
−100
−150
−200
−250
−300
pull
Entries 93
Mean 1781
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

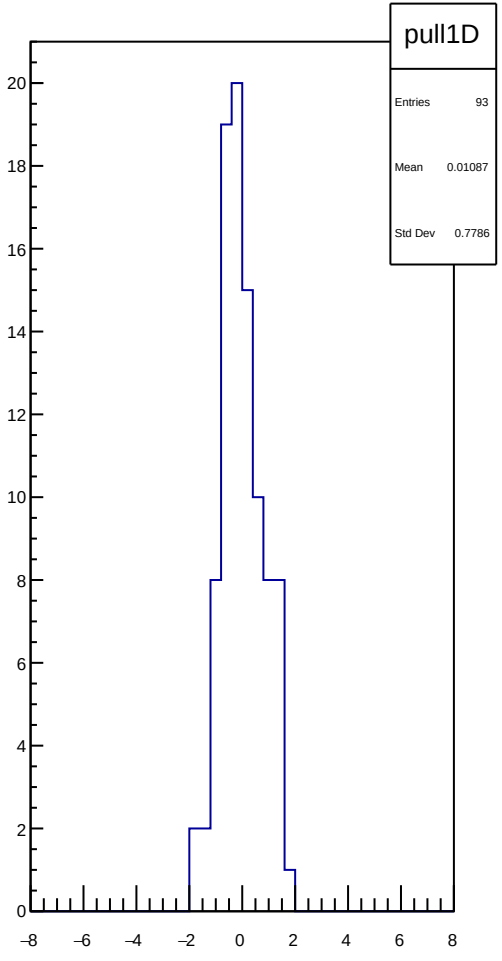

pull1D
Entries 93
Mean −0.002128
Std Dev 0.5181
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

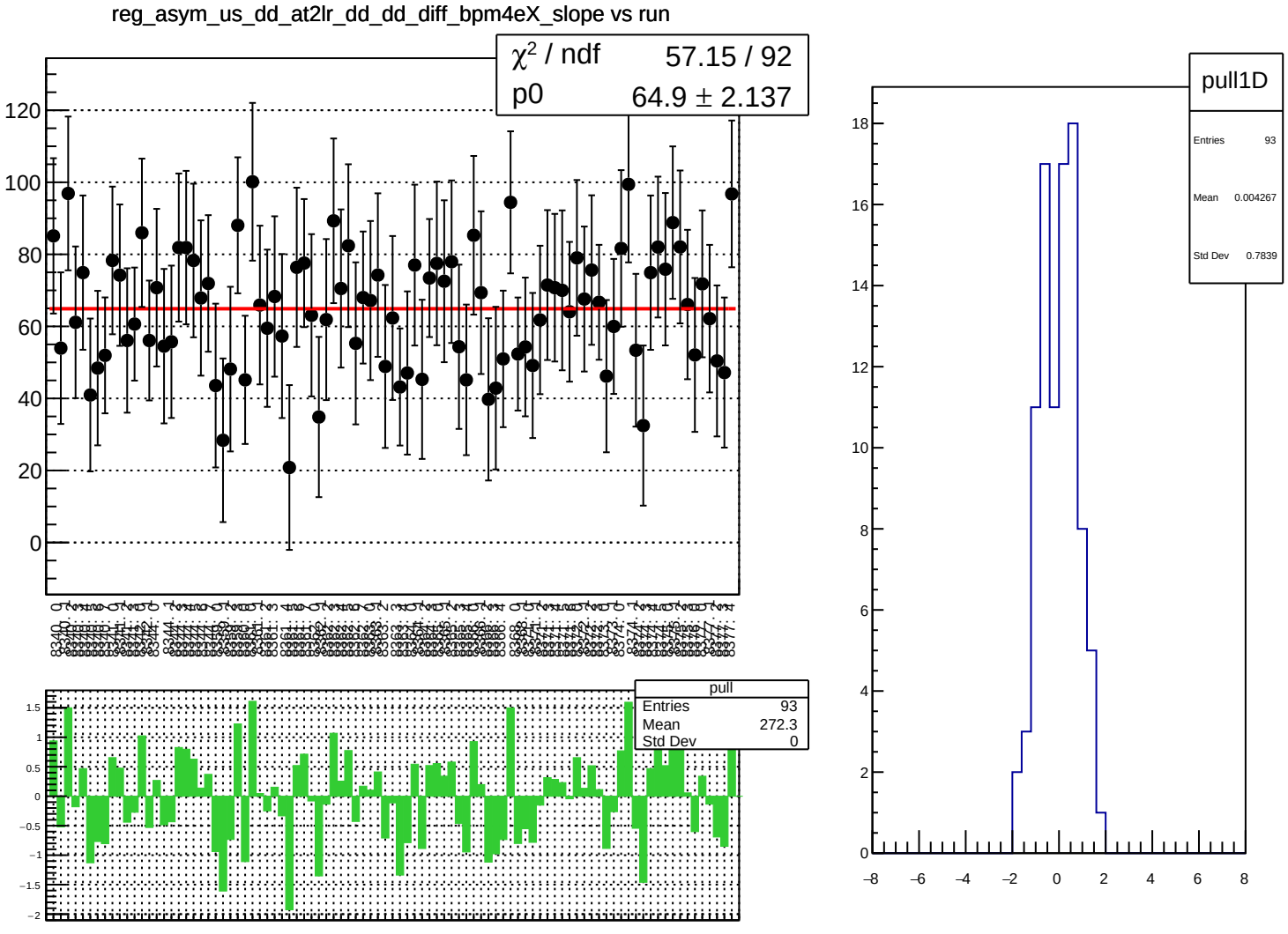

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.35 / 92
p0 13.42 ± 7.735
pull
Entries 93
Mean 454.6
Std Dev 0
pull1D
Entries 93
Mean 0.006778
Std Dev 0.5618

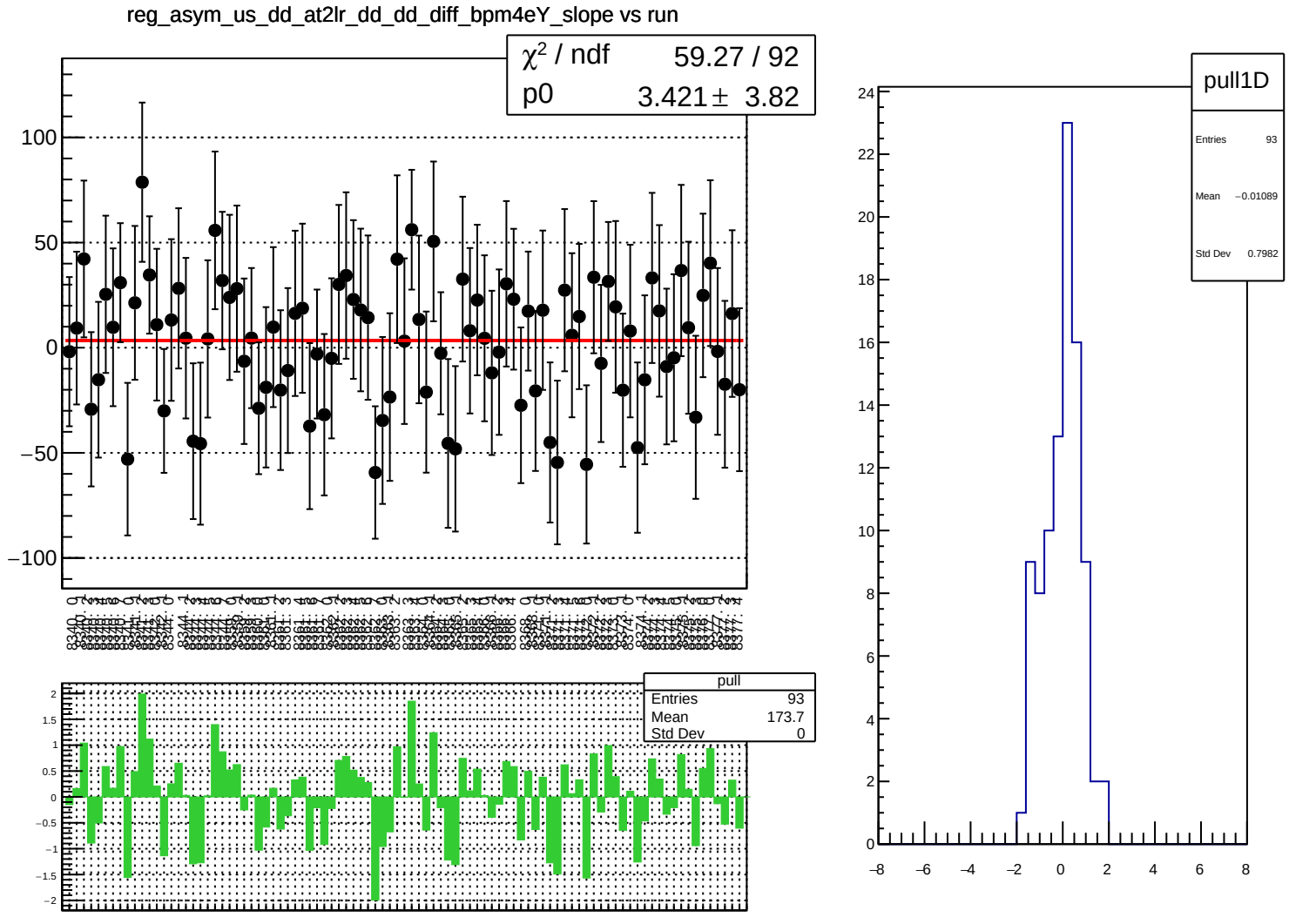

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 29.72 / 92
p0 27.74 ± 0.4632
pull
Entries 93
Mean 183.3
Std Dev 0
pull1D
Entries 93
Mean 0.006701
Std Dev 0.5652

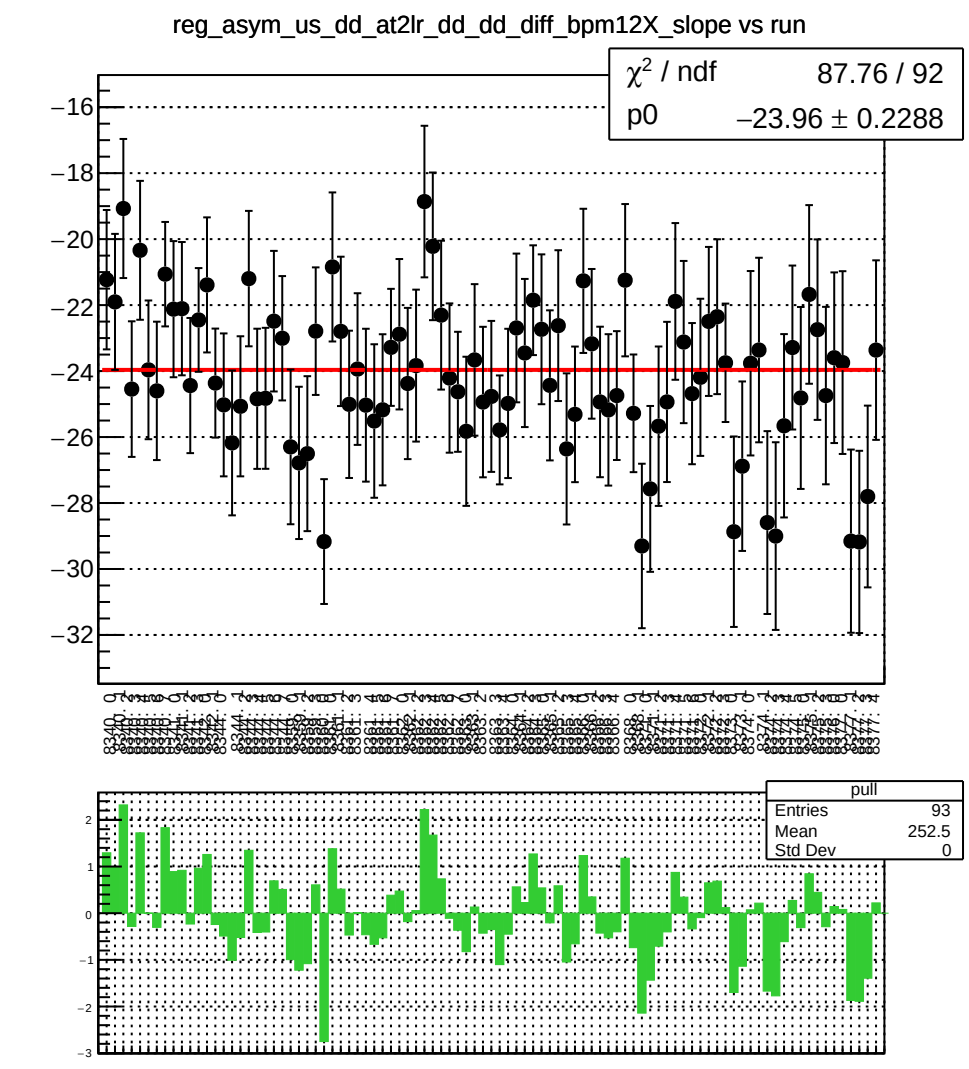

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 54.94 / 92
p0 −41.92 ± 1.86
pull
Entries 93
Mean 1352
Std Dev 0
pull1D
Entries 93
Mean −0.001488
Std Dev 0.7686

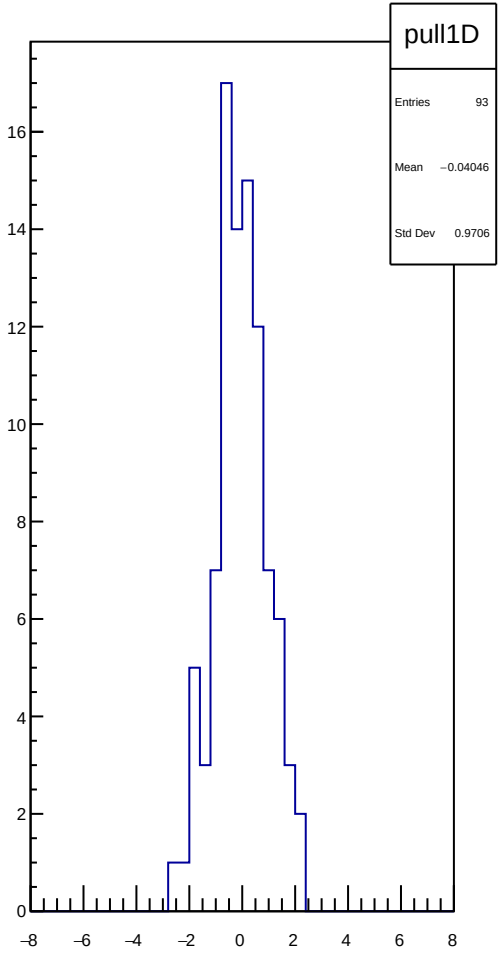

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.39 / 92
p0 7.46 ± 3.699
pull
Entries 93
Mean 166.5
Std Dev 0

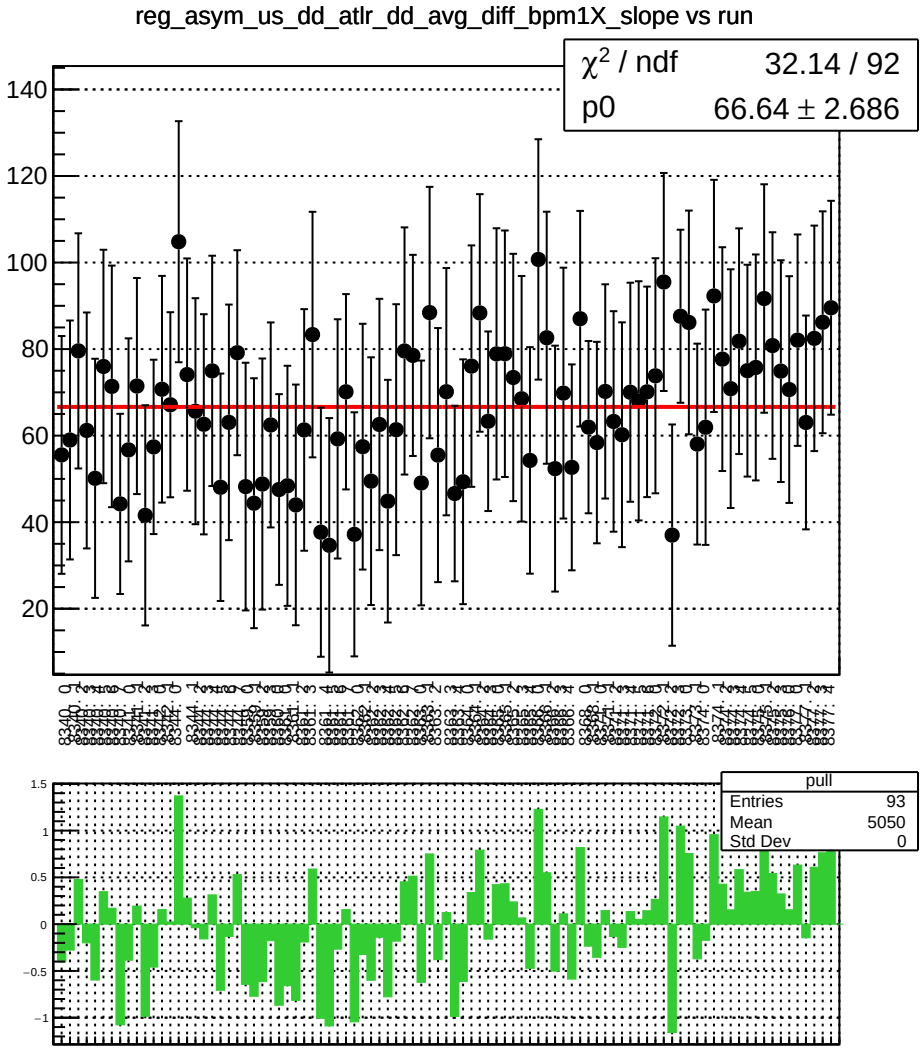

pull1D
Entries 93
Mean 0.01087
Std Dev 0.7786

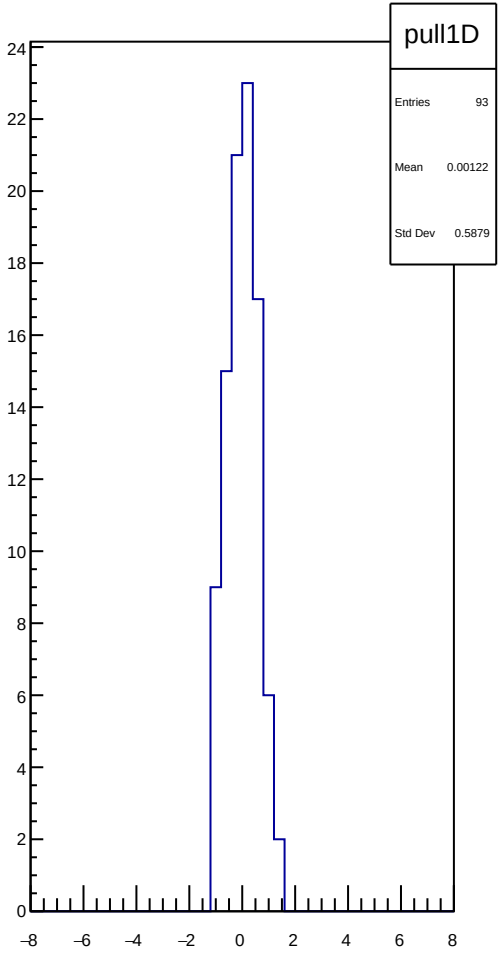

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.15 / 92
p0 64.9 ± 2.137
pull
Entries 93
Mean 272.3
Std Dev 0
pull1D
Entries 93
Mean 0.004267
Std Dev 0.7839

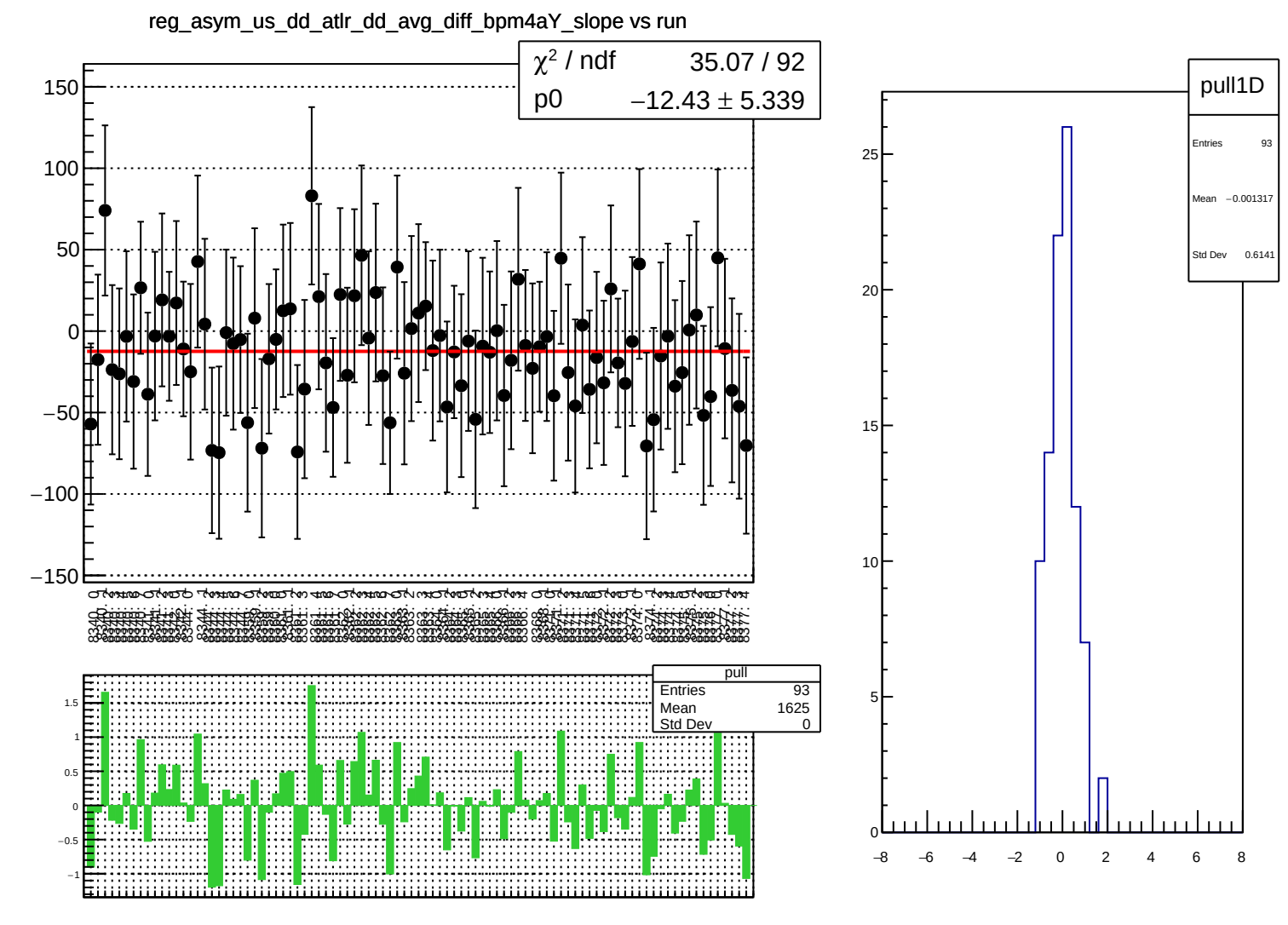

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.27 / 92
p0 3.421 ± 3.82
pull
Entries 93
Mean 173.7
Std Dev 0
pull1D
Entries 93
Mean −0.01089
Std Dev 0.7982

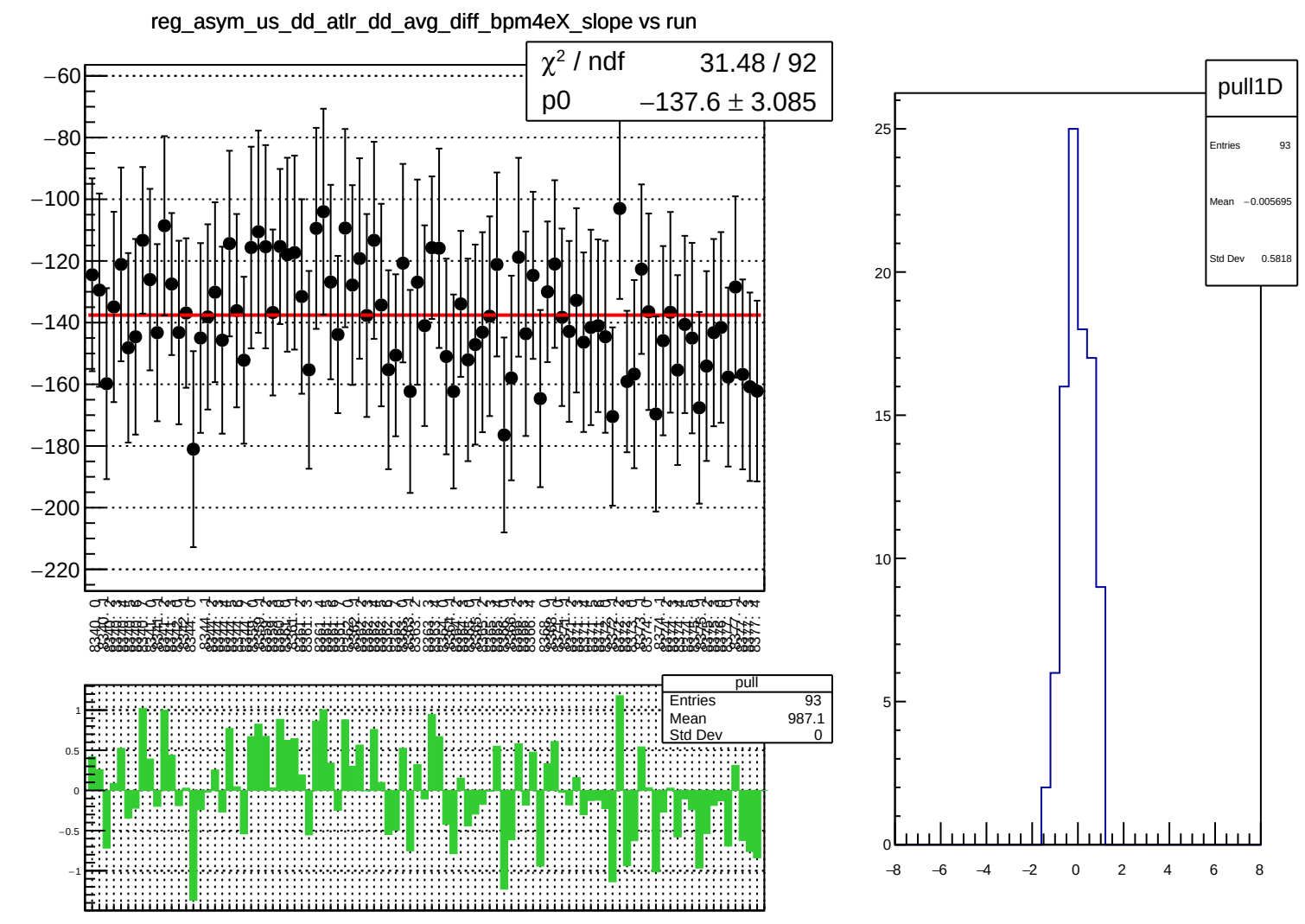

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 87.76 / 92
p0 −23.96 ± 0.2288
pull
Entries 93
Mean 252.5
Std Dev 0

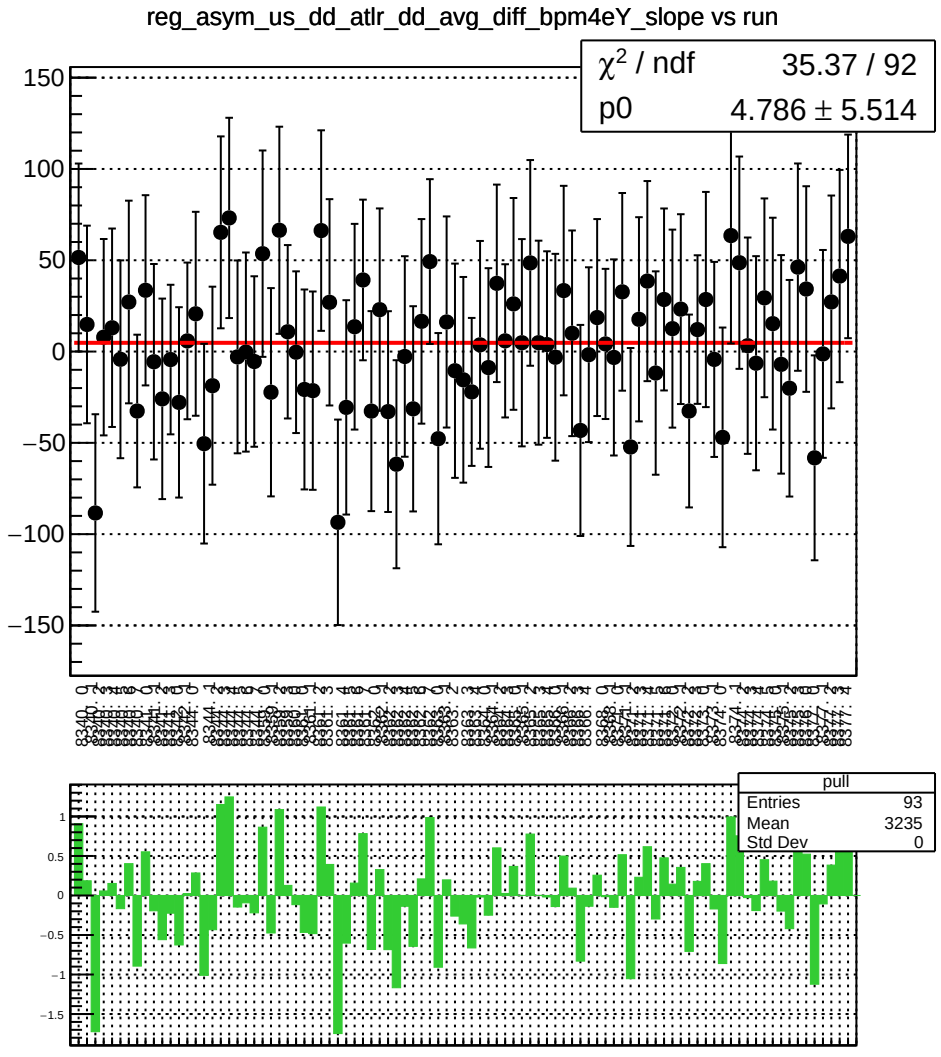

pull1D
Entries 93
Mean −0.04046
Std Dev 0.9706

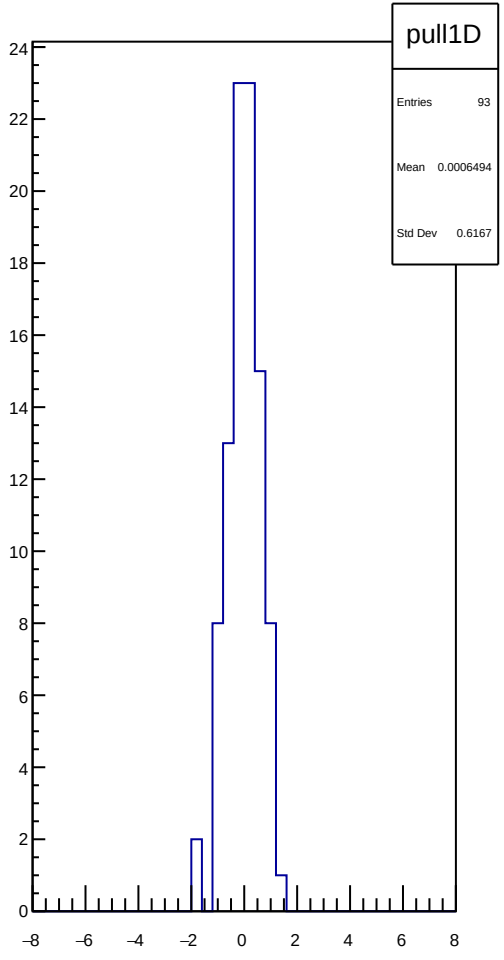

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 32.14 / 92
p0 66.64 ± 2.686
140
120
100
80
60
40
20
pull
Entries 93
Mean 5050
Std Dev 0
1.5
1
0.5
0
−0.5
−1

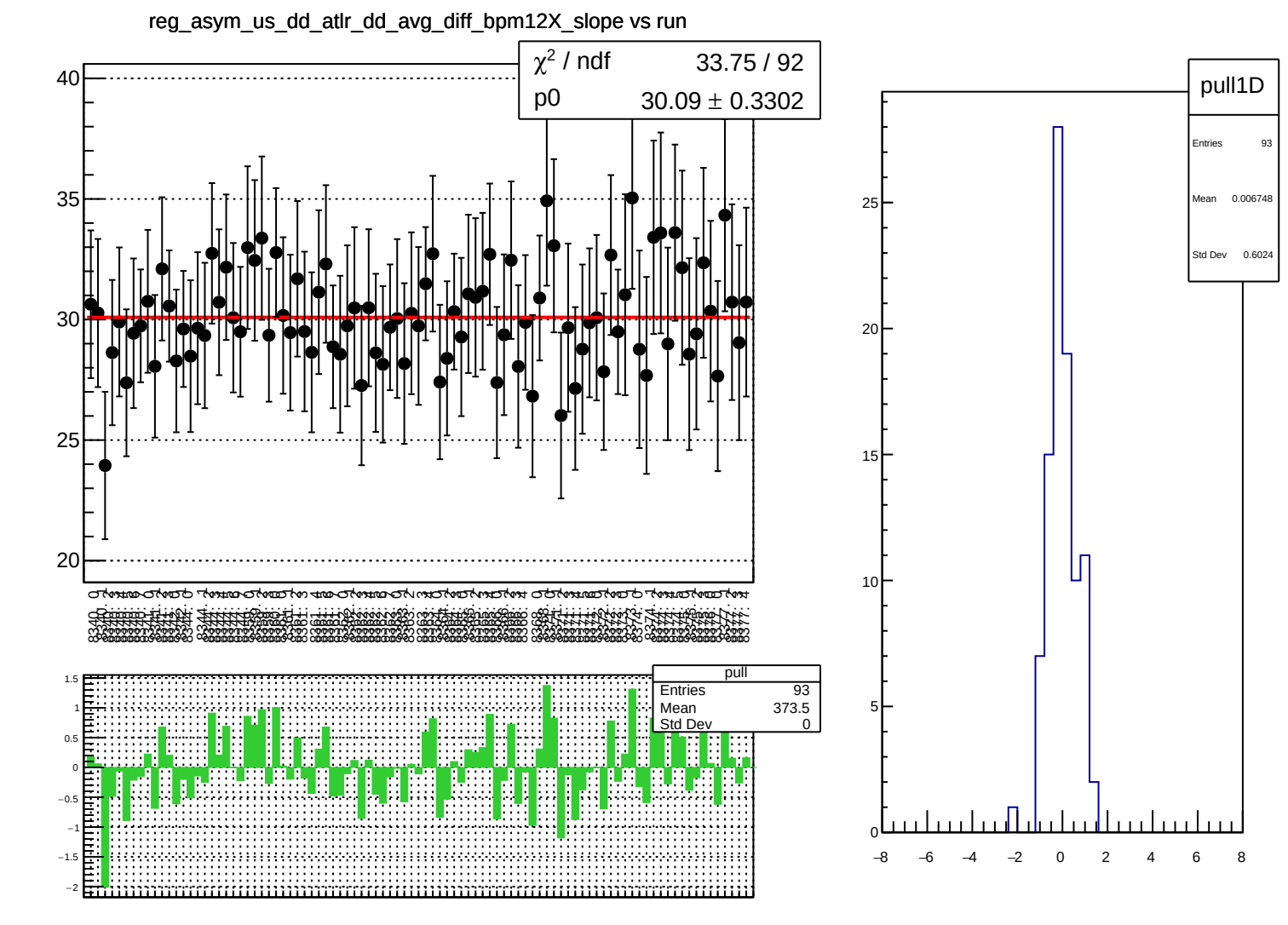

pull1D
Entries 93
Mean 0.00122
Std Dev 0.5879
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

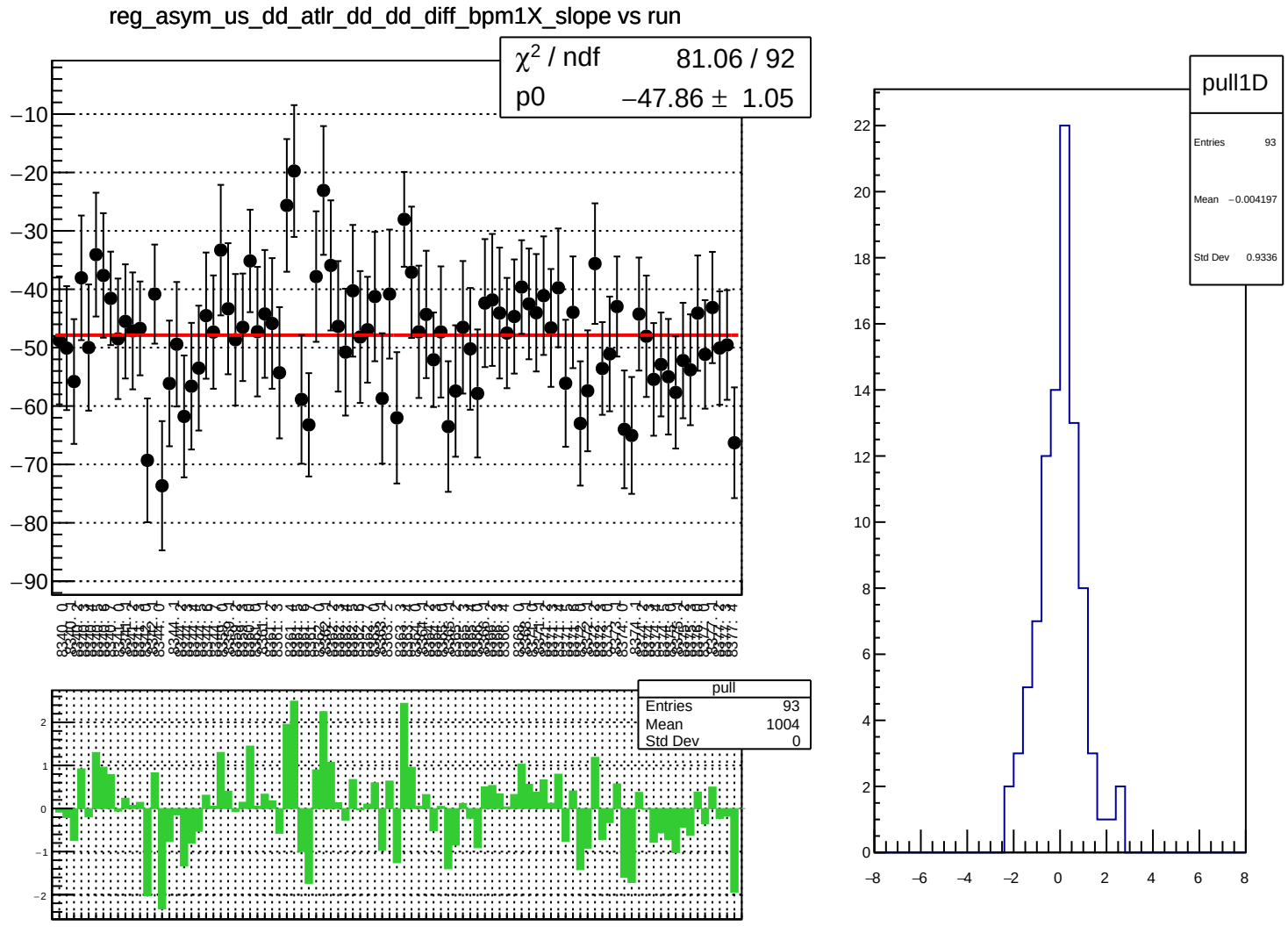

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.07 / 92
p0 −12.43 ± 5.339
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 1625
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.001317
Std Dev 0.6141
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

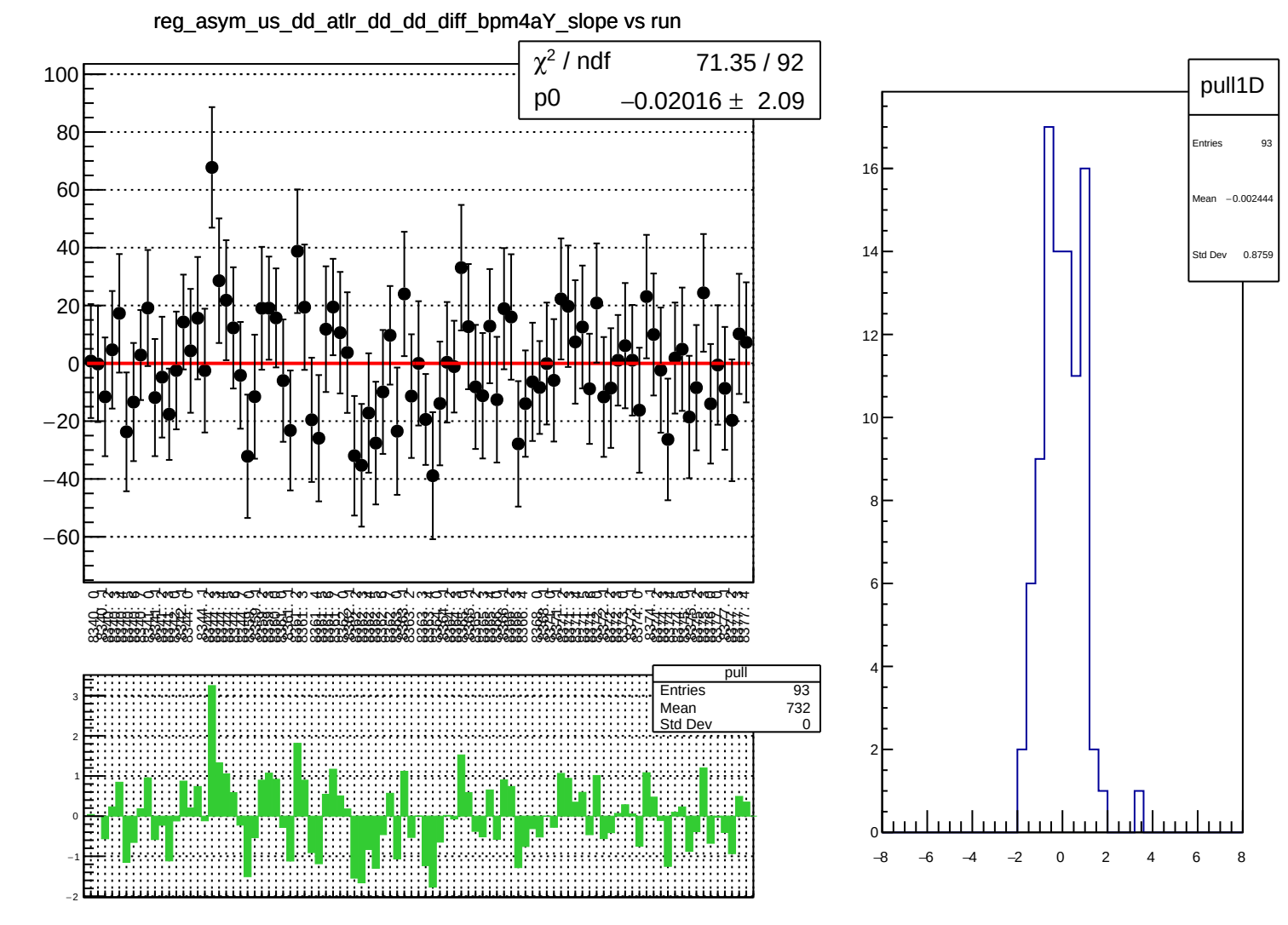

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.48 / 92
p0 −137.6 ± 3.085
pull
Entries 93
Mean 987.1
Std Dev 0
pull1D
Entries 93
Mean −0.005695
Std Dev 0.5818

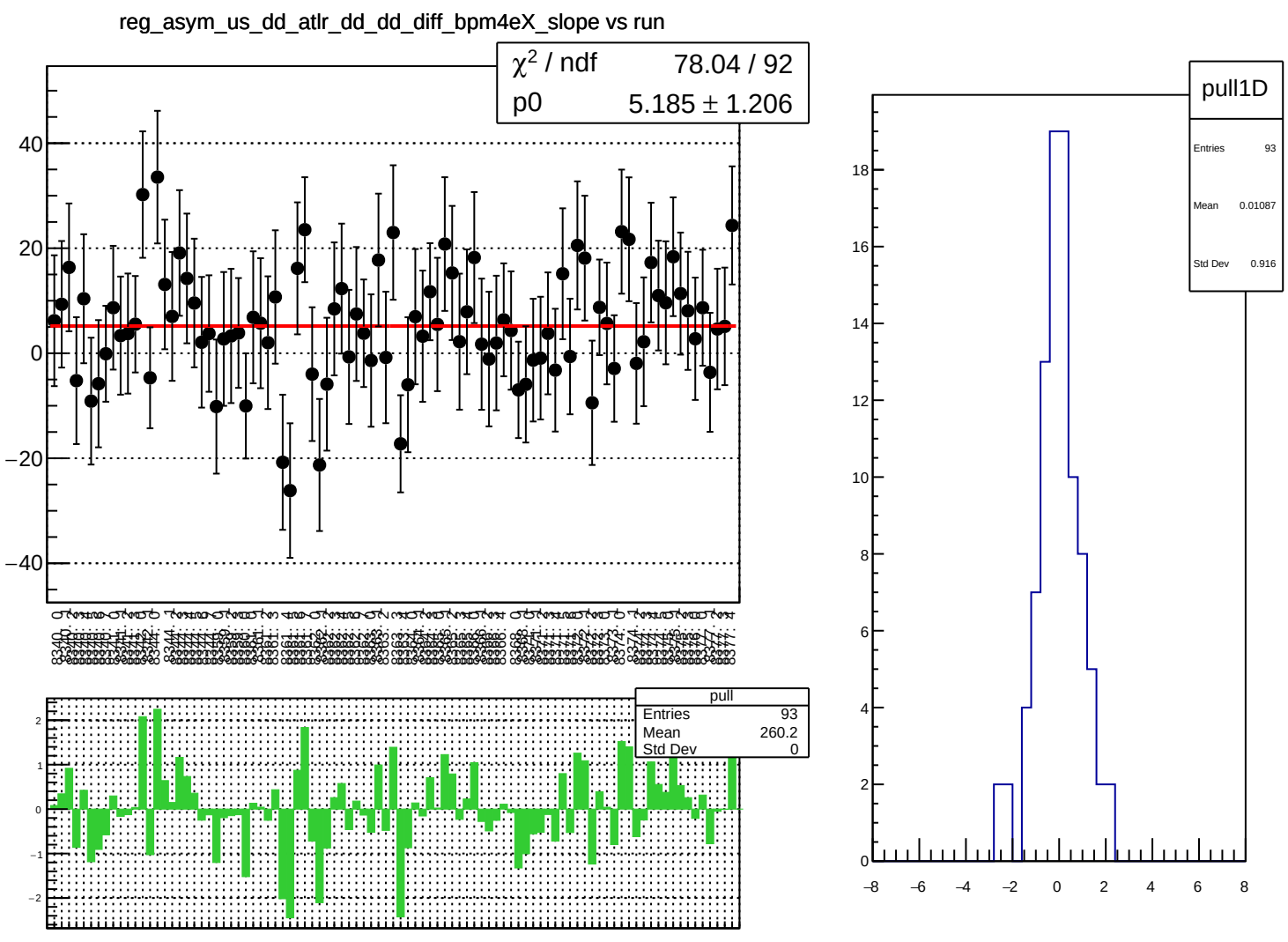

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 35.37 / 92
p0 4.786 ± 5.514
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean 3235
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

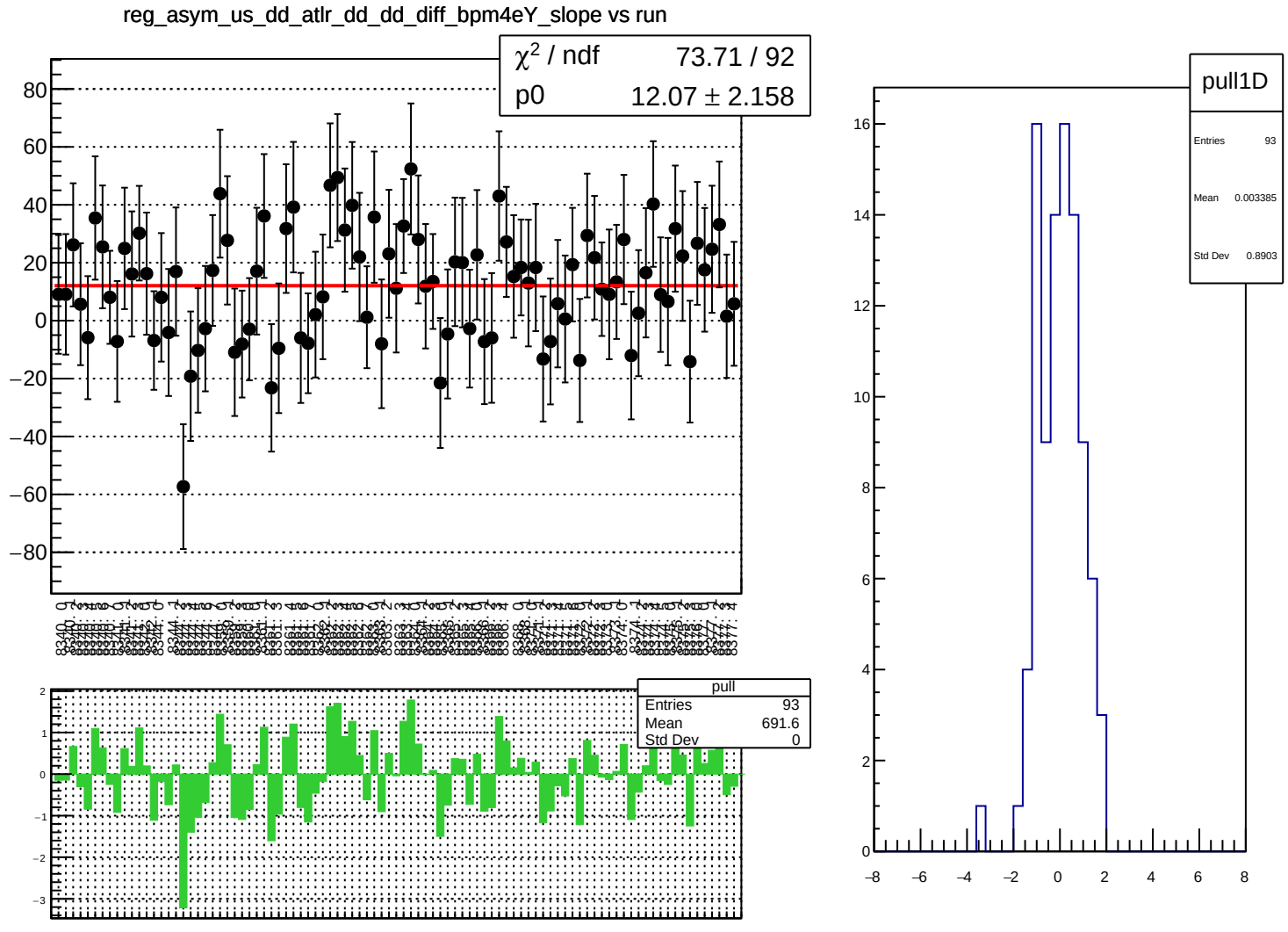

pull1D
Entries 93
Mean 0.0006494
Std Dev 0.6167
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

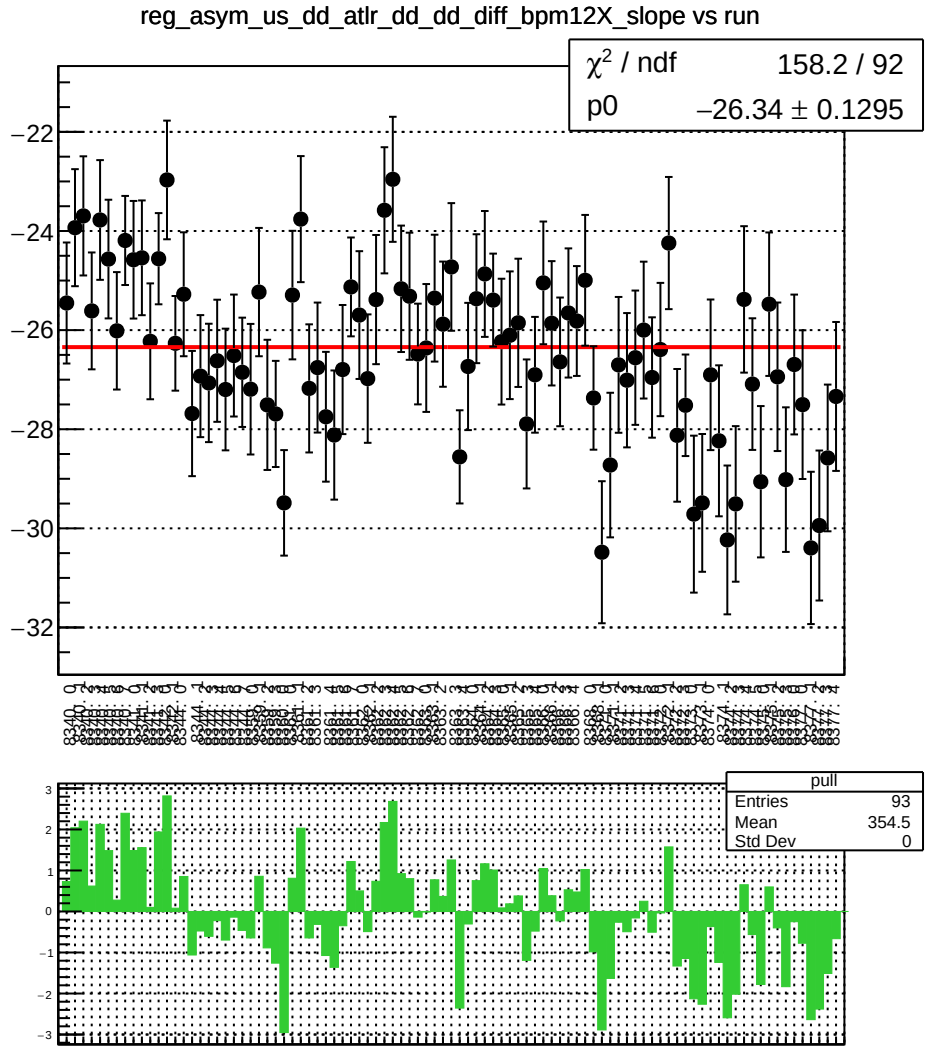

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 33.75 / 92
p0 30.09 ± 0.3302
pull
Entries 93
Mean 373.5
Std Dev 0
pull1D
Entries 93
Mean 0.006748
Std Dev 0.6024

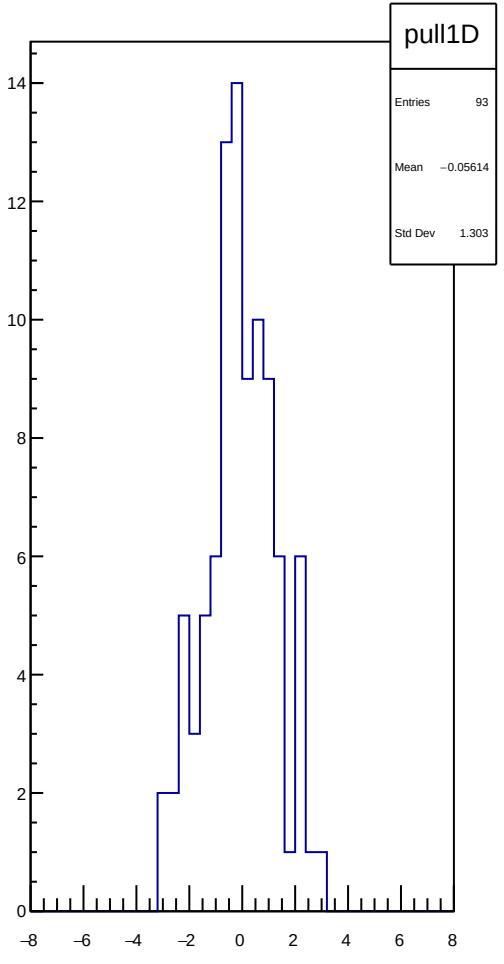

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 81.06 / 92
p0 −47.86 ± 1.05
pull
Entries 93
Mean 1004
Std Dev 0
pull1D
Entries 93
Mean −0.004197
Std Dev 0.9336

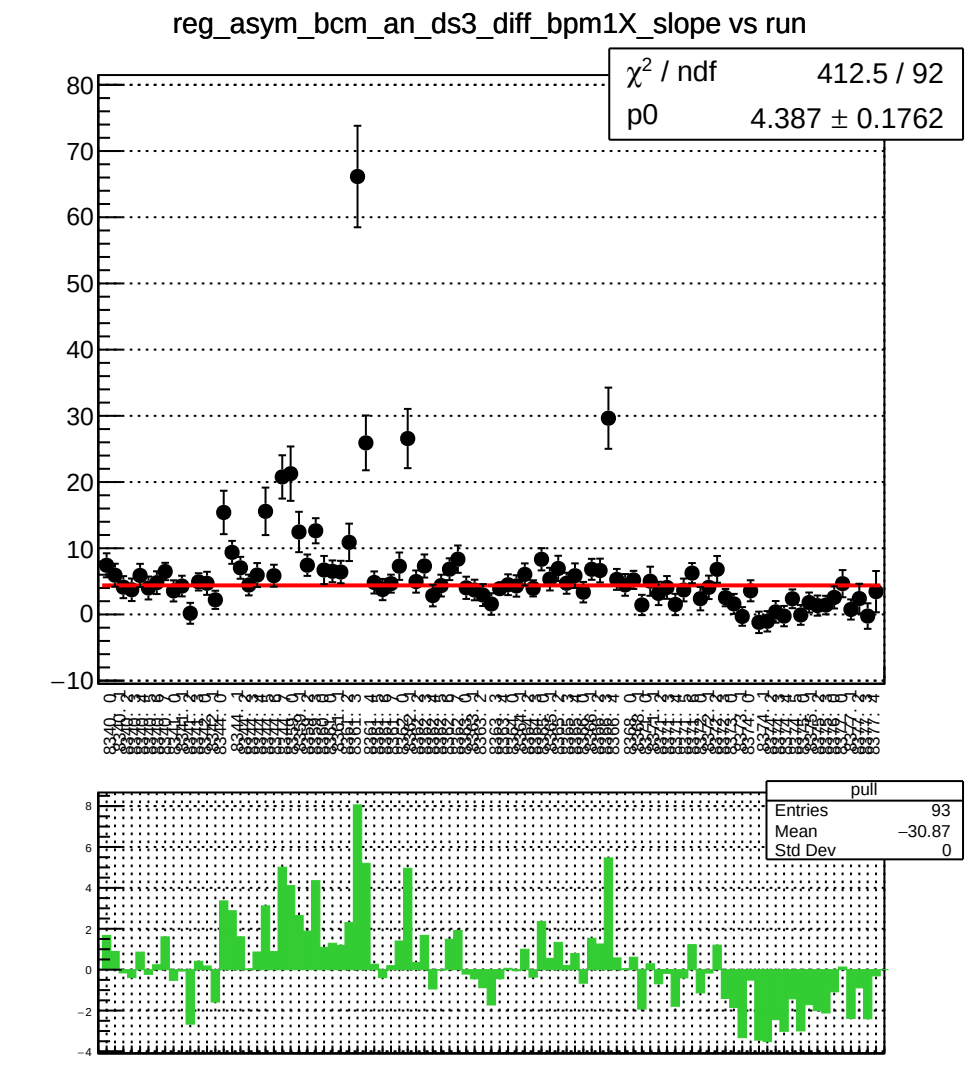

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.35 / 92
p0 −0.02016 ± 2.09
pull
Entries 93
Mean 732
Std Dev 0
pull1D
Entries 93
Mean −0.002444
Std Dev 0.8759

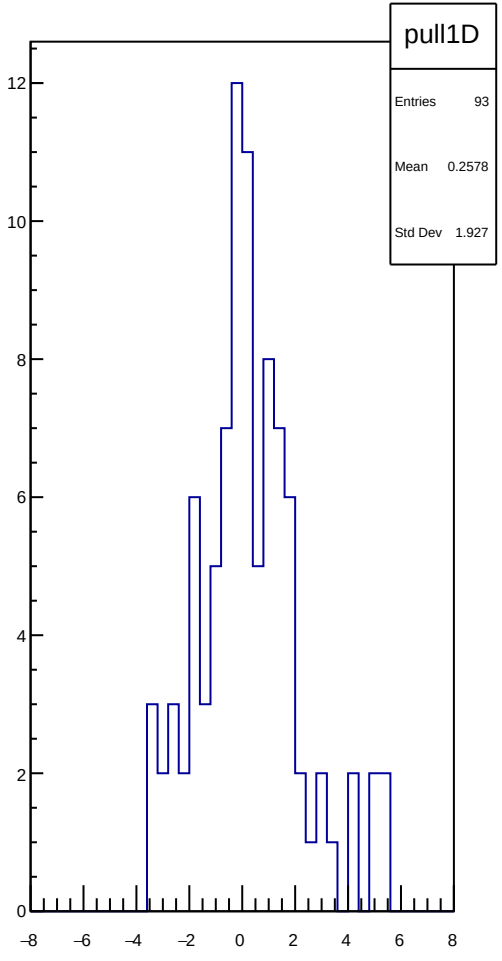

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.04 / 92
p0 5.185 ± 1.206
40
20
0
−20
−40
pull
Entries 93
Mean 260.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.01087
Std Dev 0.916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

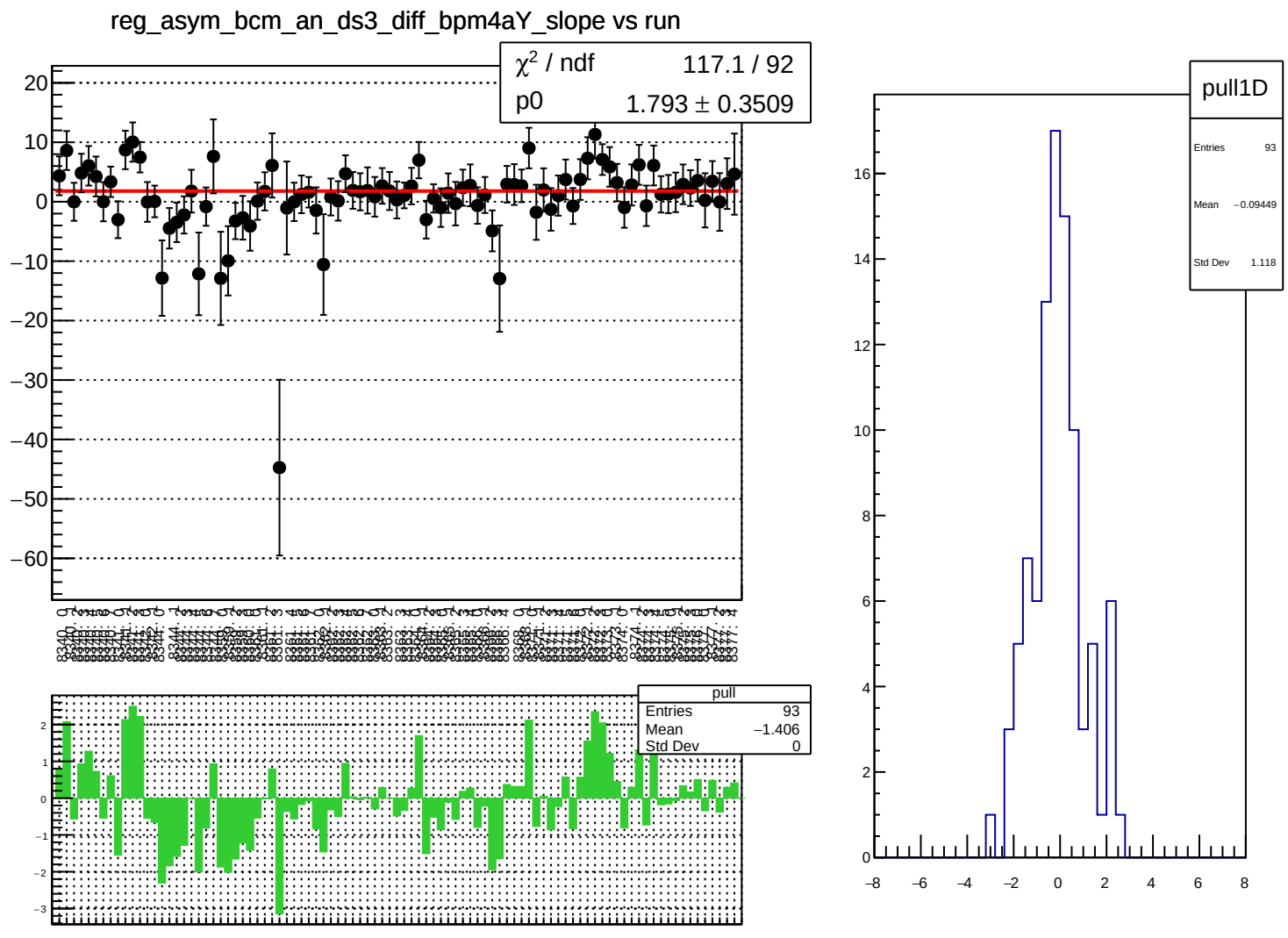

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.71 / 92
p0 12.07 ± 2.158
pull
Entries 93
Mean 691.6
Std Dev 0
pull1D
Entries 93
Mean 0.003385
Std Dev 0.8903

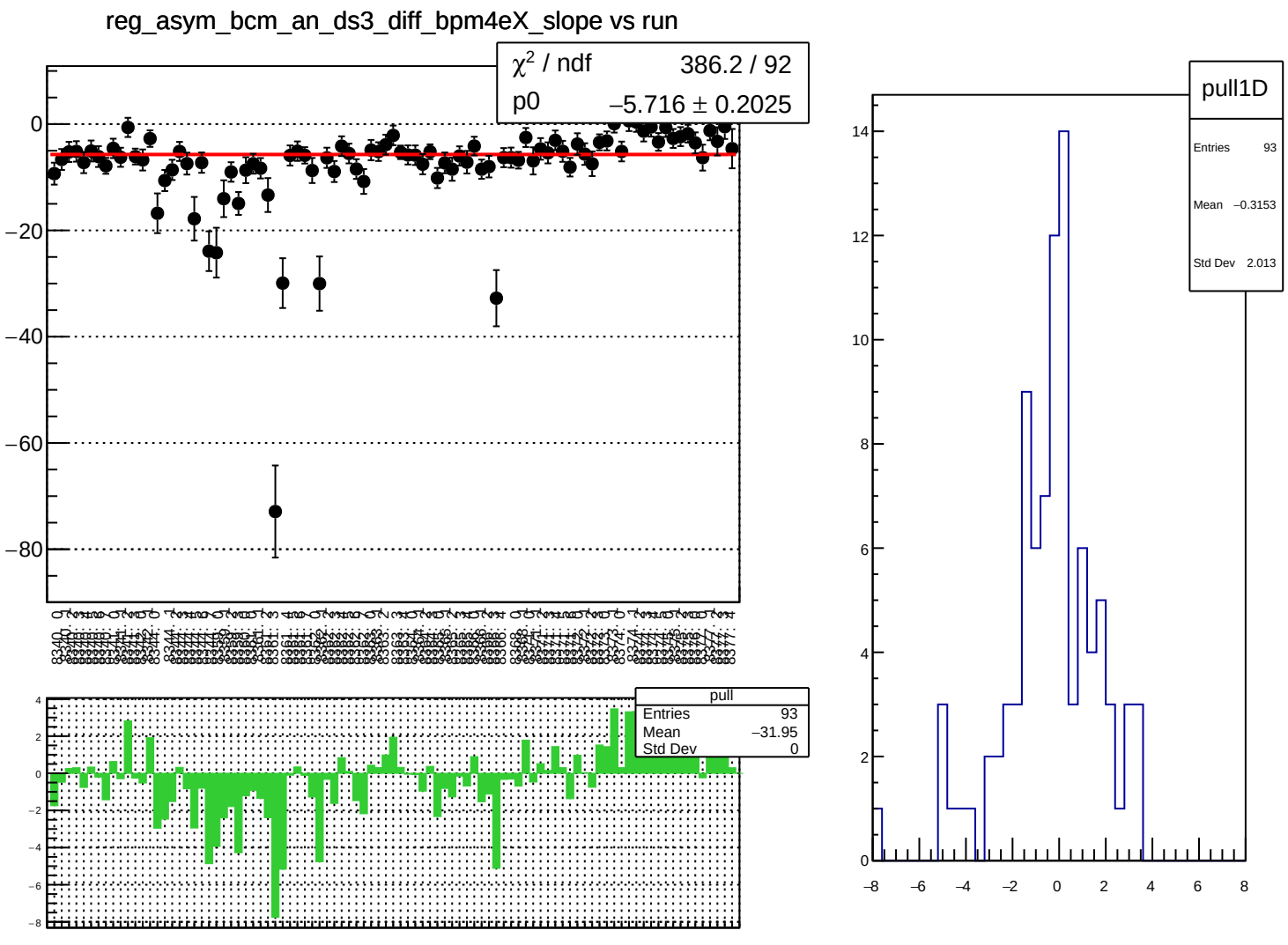

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 158.2 / 92
p0 −26.34 ± 0.1295
pull
Entries 93
Mean 354.5
Std Dev 0

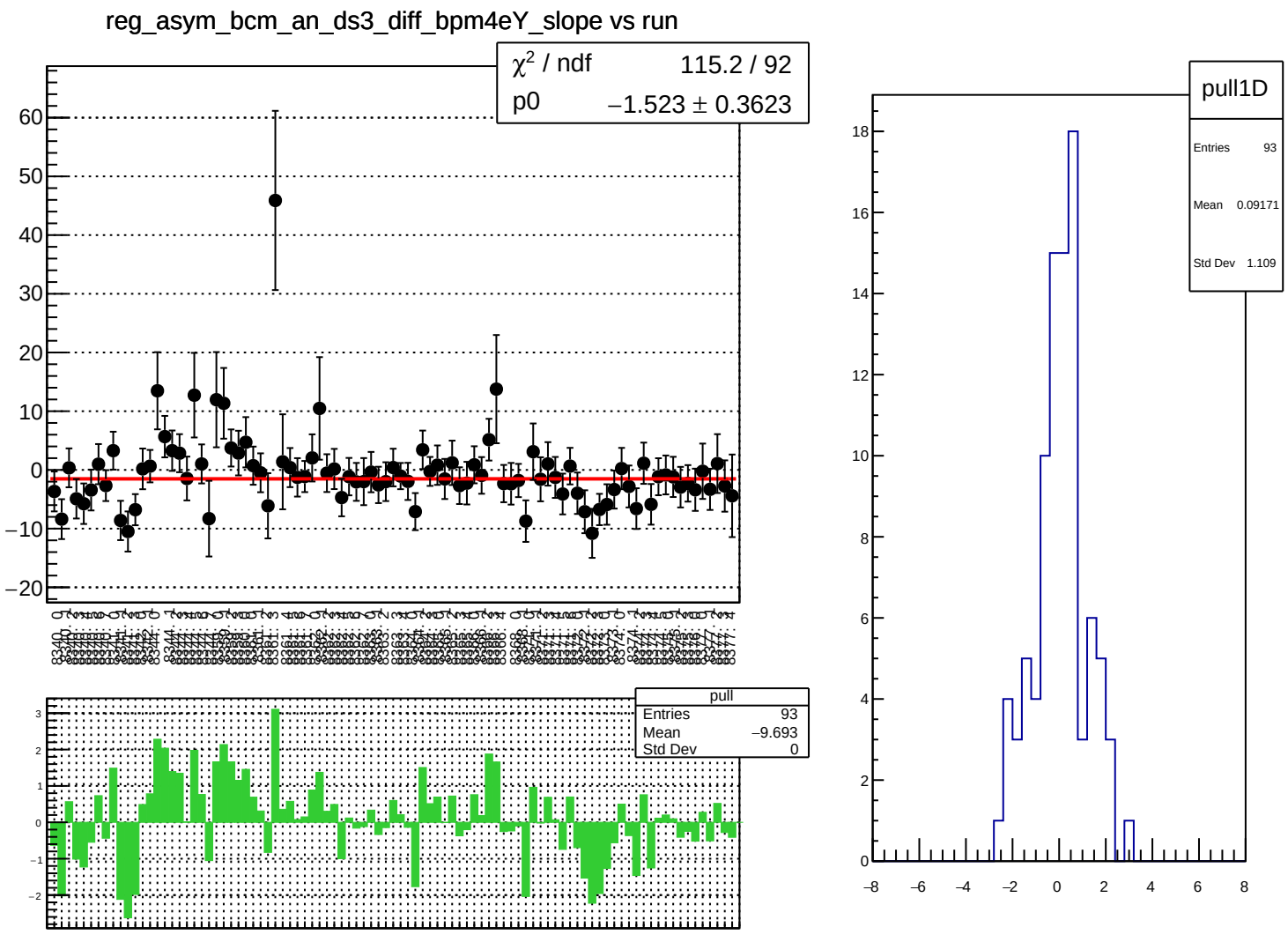

pull1D
Entries 93
Mean −0.05614
Std Dev 1.303

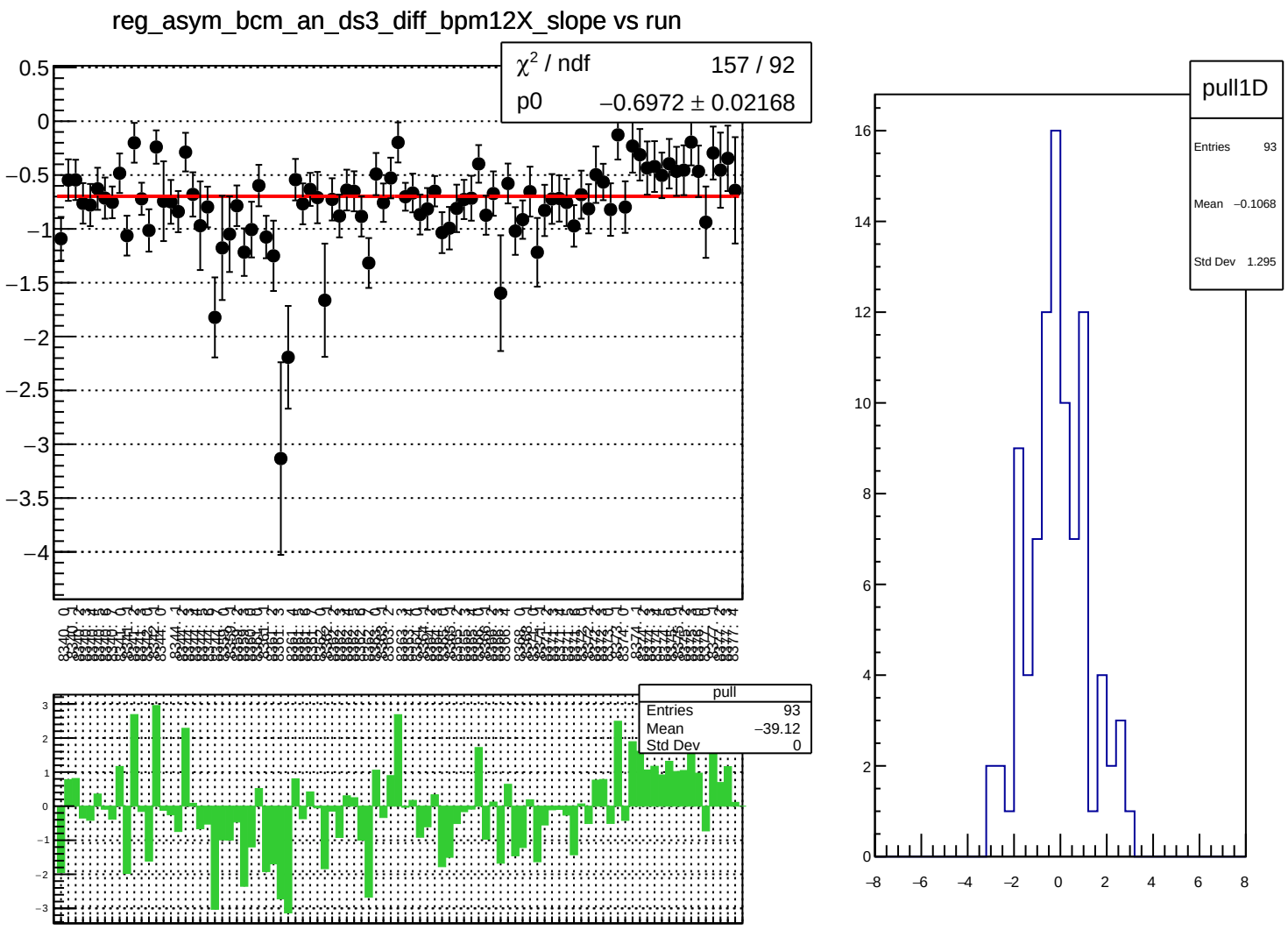

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 412.5 / 92
p0 4.387 ± 0.1762
pull
Entries 93
Mean −30.87
Std Dev 0

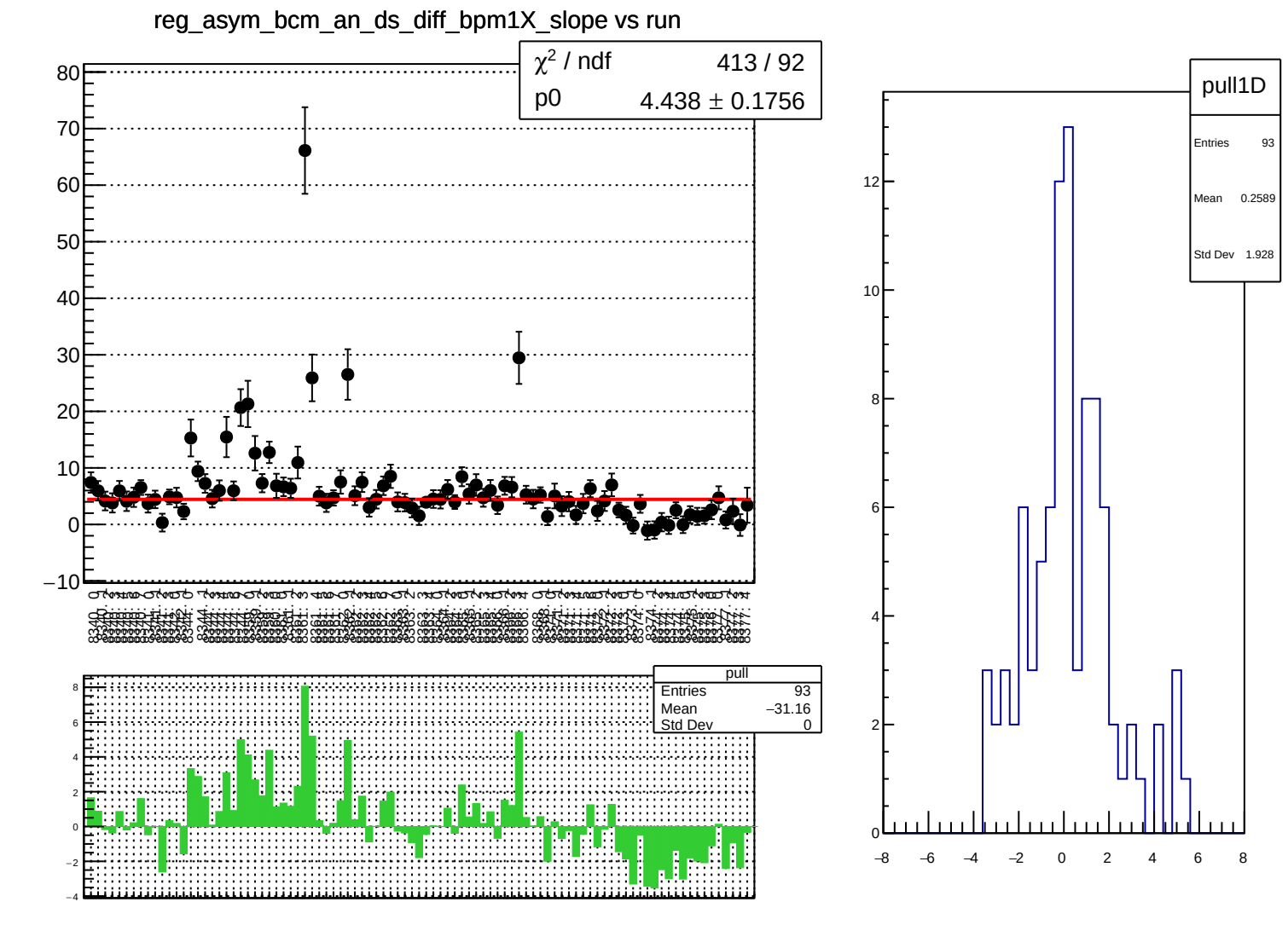

pull1D
Entries 93
Mean 0.2578
Std Dev 1.927

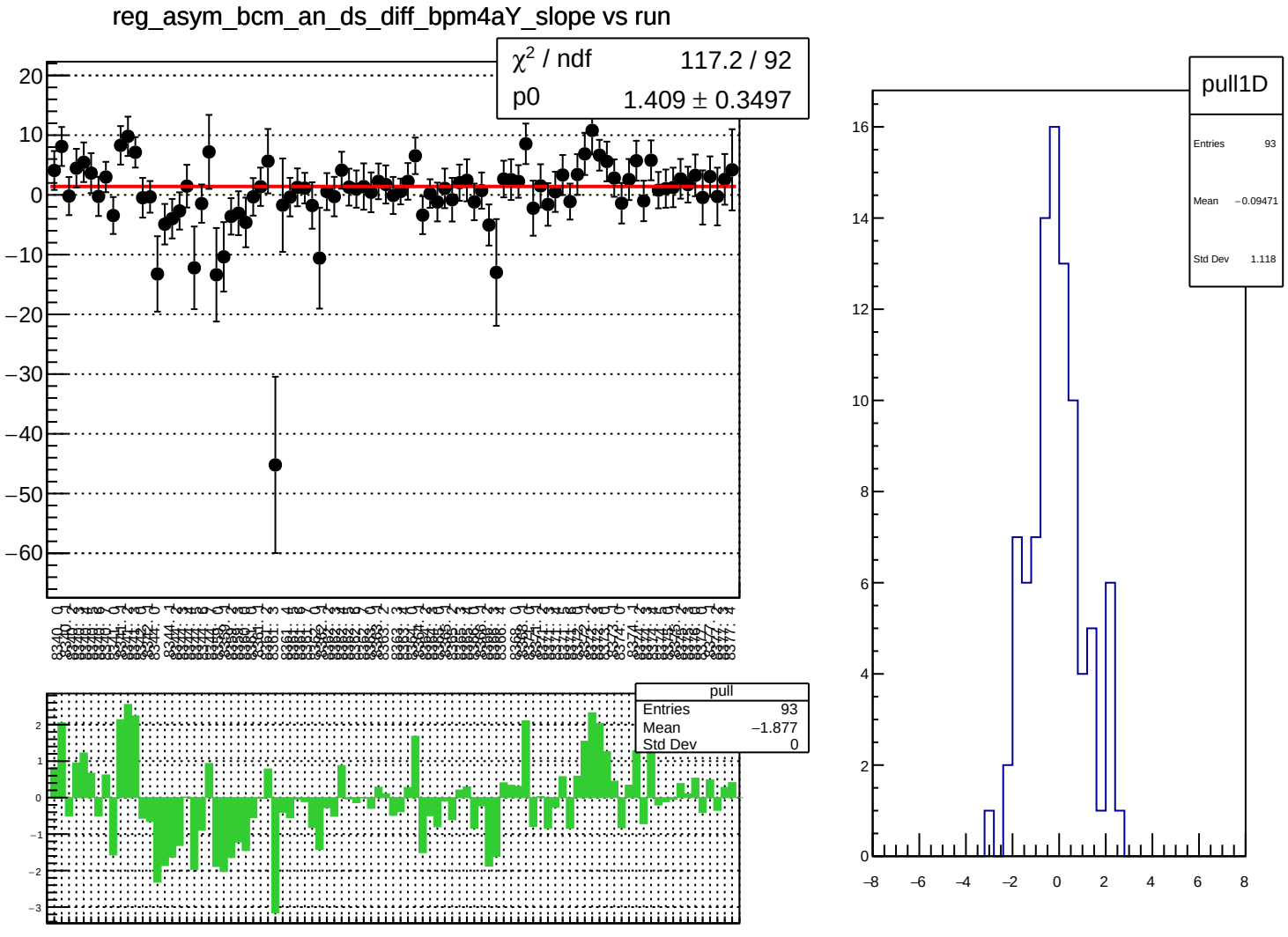

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 117.1 / 92
p0 1.793 ± 0.3509
pull
Entries 93
Mean −1.406
Std Dev 0
pull1D
Entries 93
Mean −0.09449
Std Dev 1.118

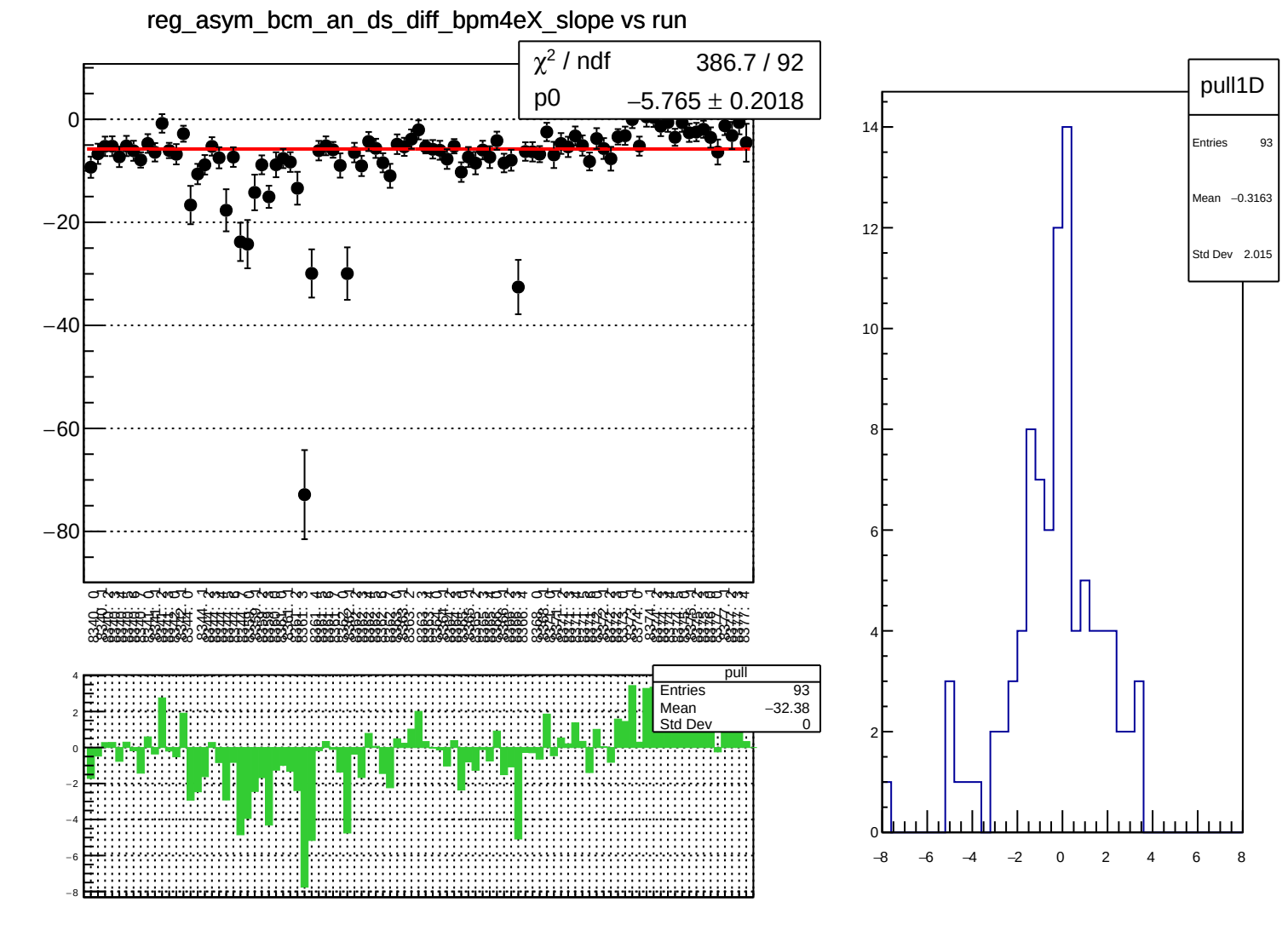

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 386.2 / 92
p0 −5.716 ± 0.2025
pull
Entries 93
Mean −31.95
Std Dev 0
pull1D
Entries 93
Mean −0.3153
Std Dev 2.013

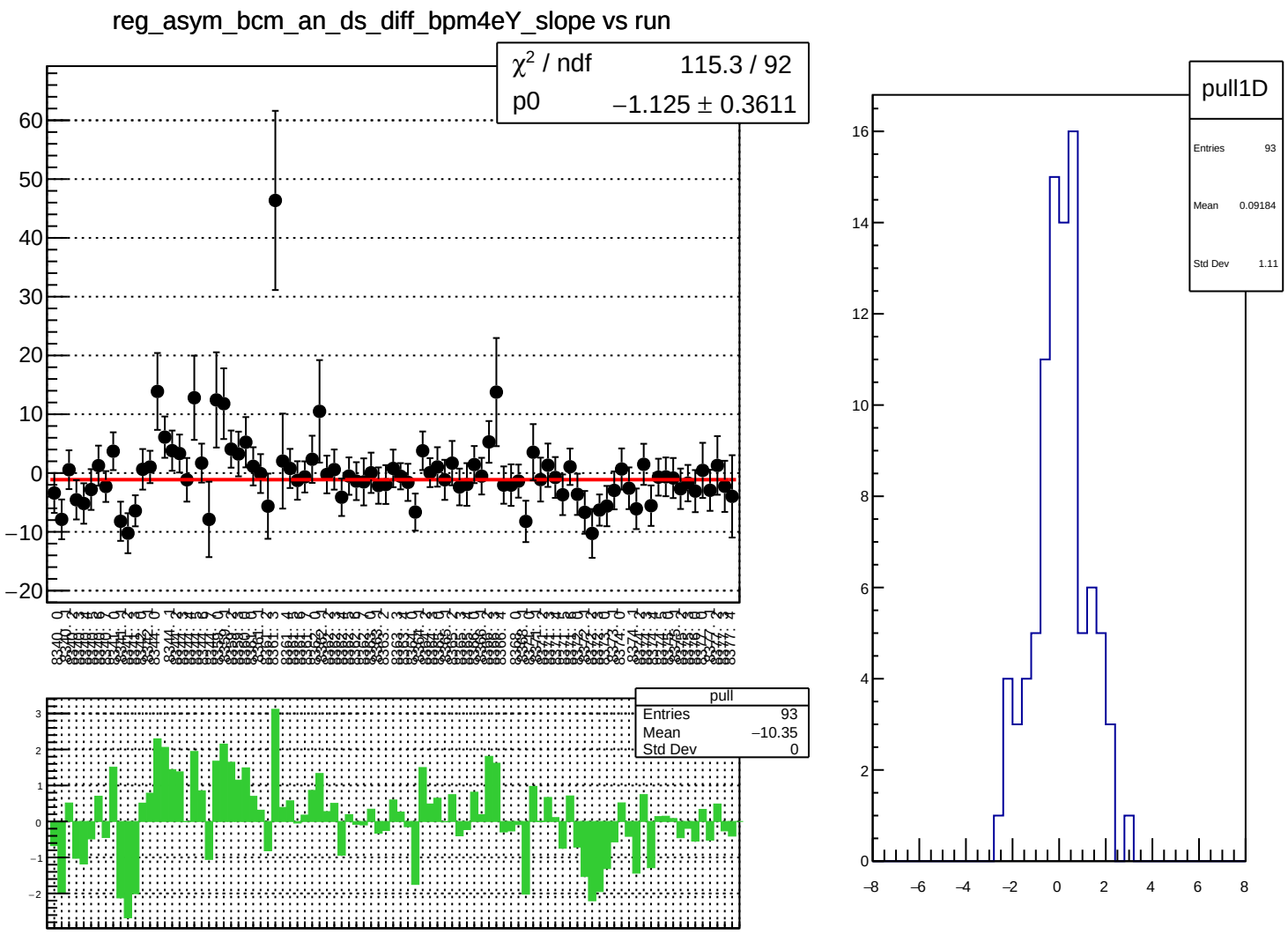

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 115.2 / 92
p0 −1.523 ± 0.3623
pull
Entries 93
Mean −9.693
Std Dev 0
pull1D
Entries 93
Mean 0.09171
Std Dev 1.109

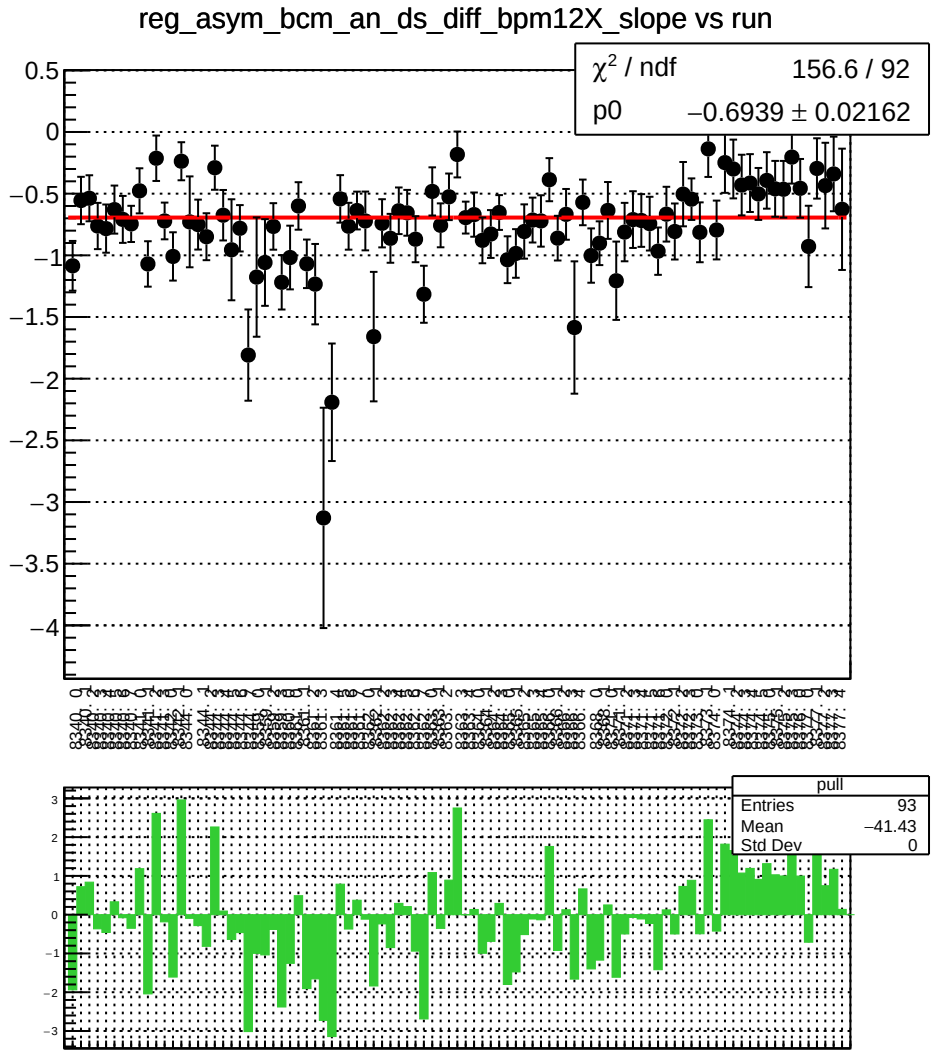

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 157 / 92
p0 −0.6972 ± 0.02168
pull
Entries 93
Mean −39.12
Std Dev 0
pull1D
Entries 93
Mean −0.1068
Std Dev 1.295

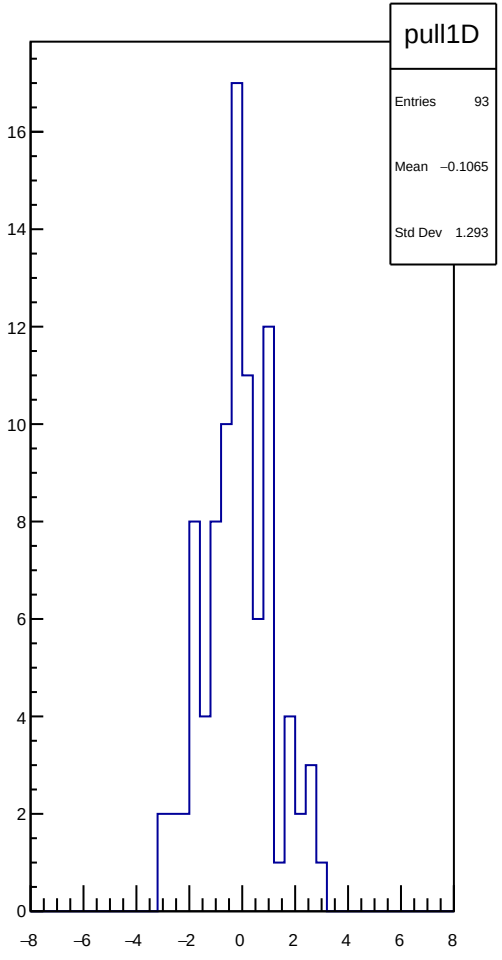

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 413 / 92
p0 4.438 ± 0.1756
pull
Entries 93
Mean −31.16
Std Dev 0
pull1D
Entries 93
Mean 0.2589
Std Dev 1.928

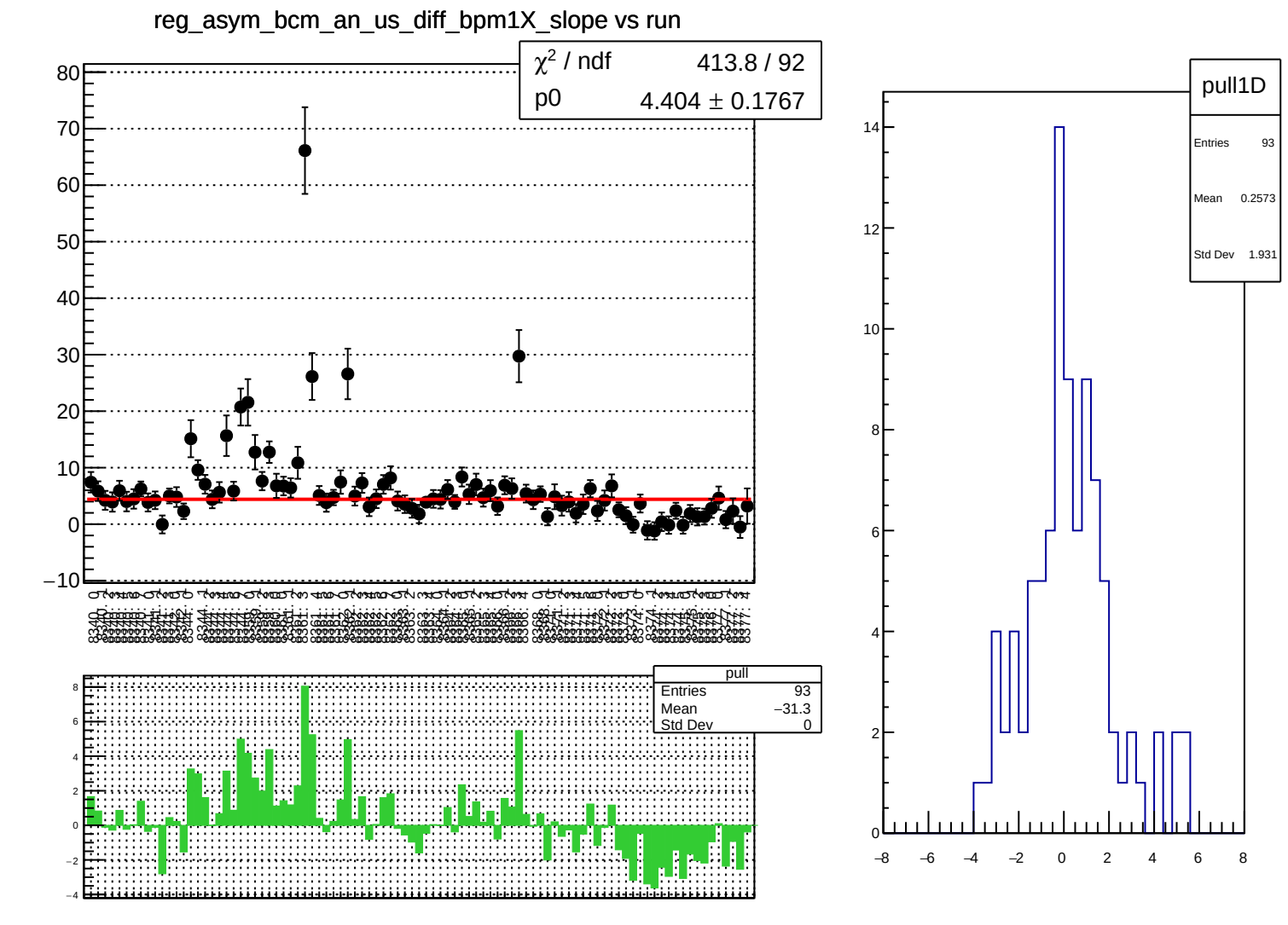

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 117.2 / 92
p0 1.409 ± 0.3497
pull
Entries 93
Mean −1.877
Std Dev 0
pull1D
Entries 93
Mean −0.09471
Std Dev 1.118

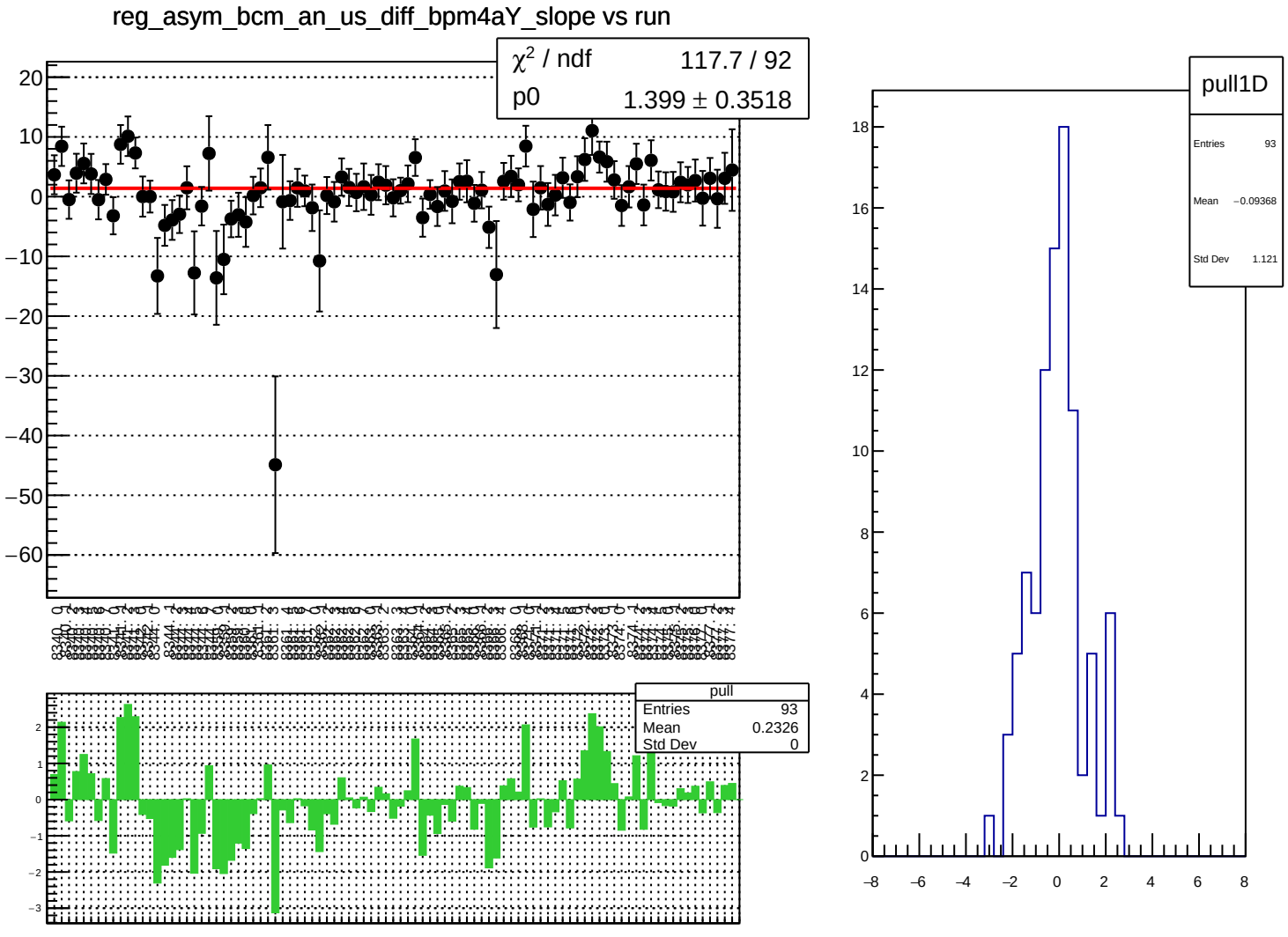

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 386.7 / 92
p0 −5.765 ± 0.2018
pull
Entries 93
Mean −32.38
Std Dev 0
pull1D
Entries 93
Mean −0.3163
Std Dev 2.015

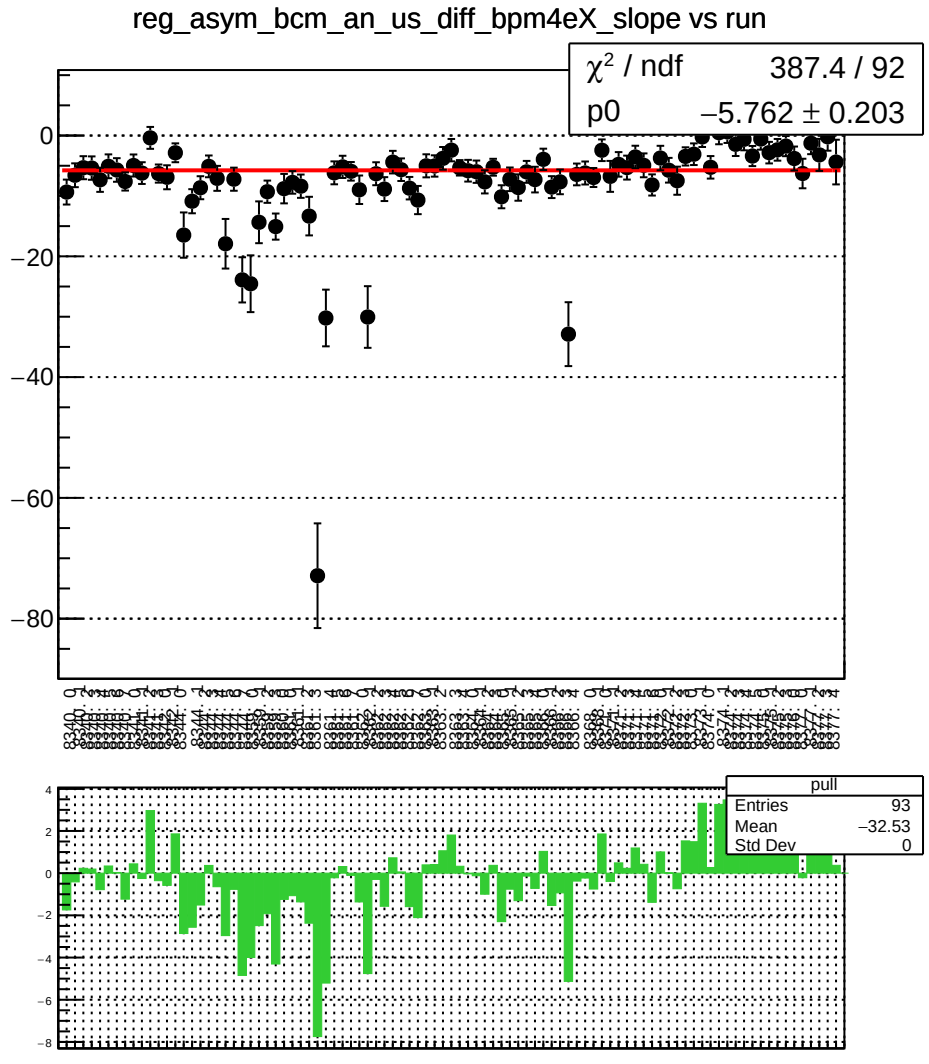

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 115.3 / 92
p0 −1.125 ± 0.3611
pull
Entries 93
Mean −10.35
Std Dev 0
pull1D
Entries 93
Mean 0.09184
Std Dev 1.11

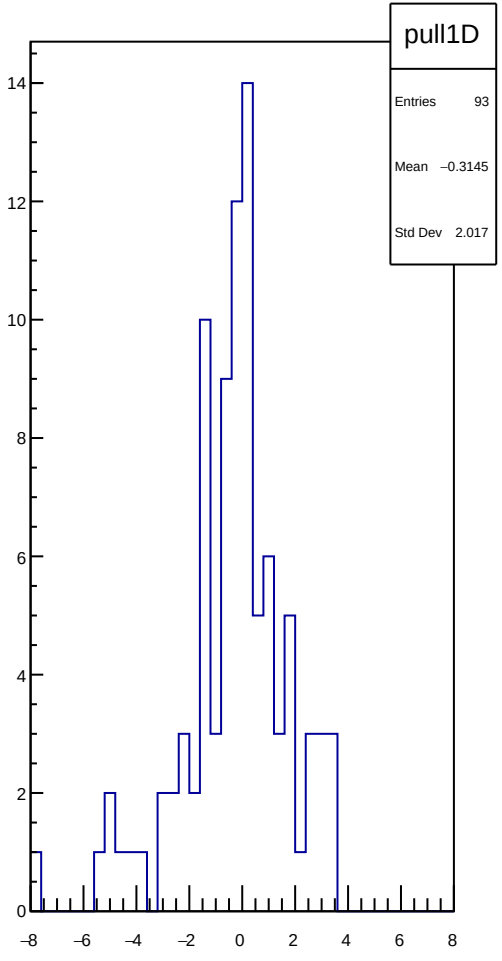

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 156.6 / 92
p0 −0.6939 ± 0.02162
pull
Entries 93
Mean −41.43
Std Dev 0

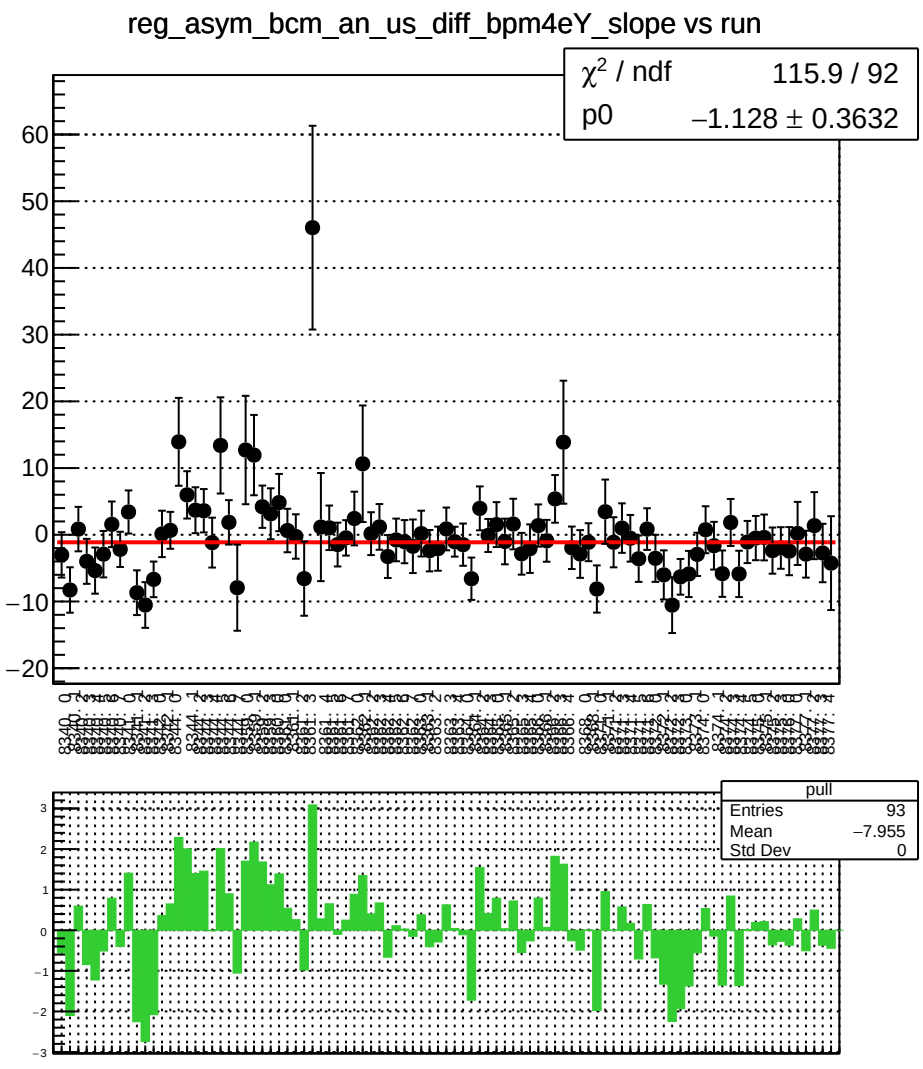

pull1D
Entries 93
Mean −0.1065
Std Dev 1.293

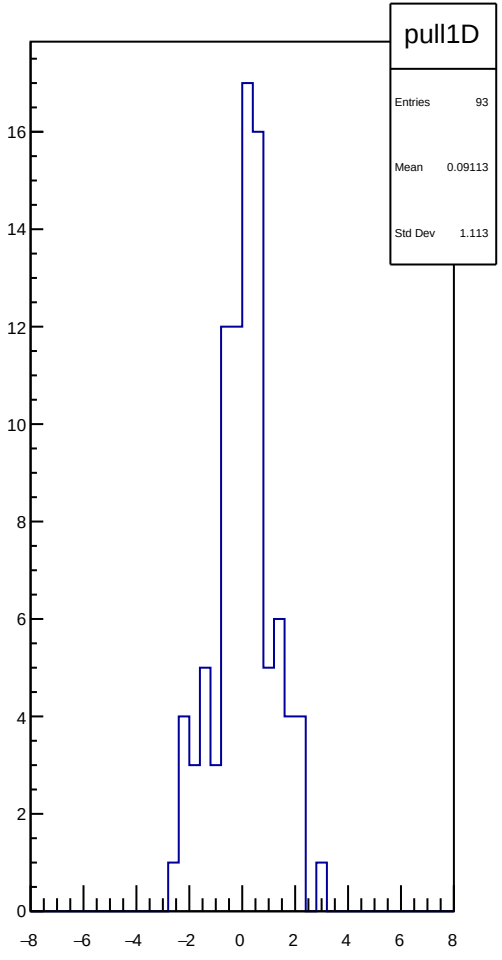

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 413.8 / 92
p0 4.404 ± 0.1767
pull
Entries 93
Mean −31.3
Std Dev 0
pull1D
Entries 93
Mean 0.2573
Std Dev 1.931

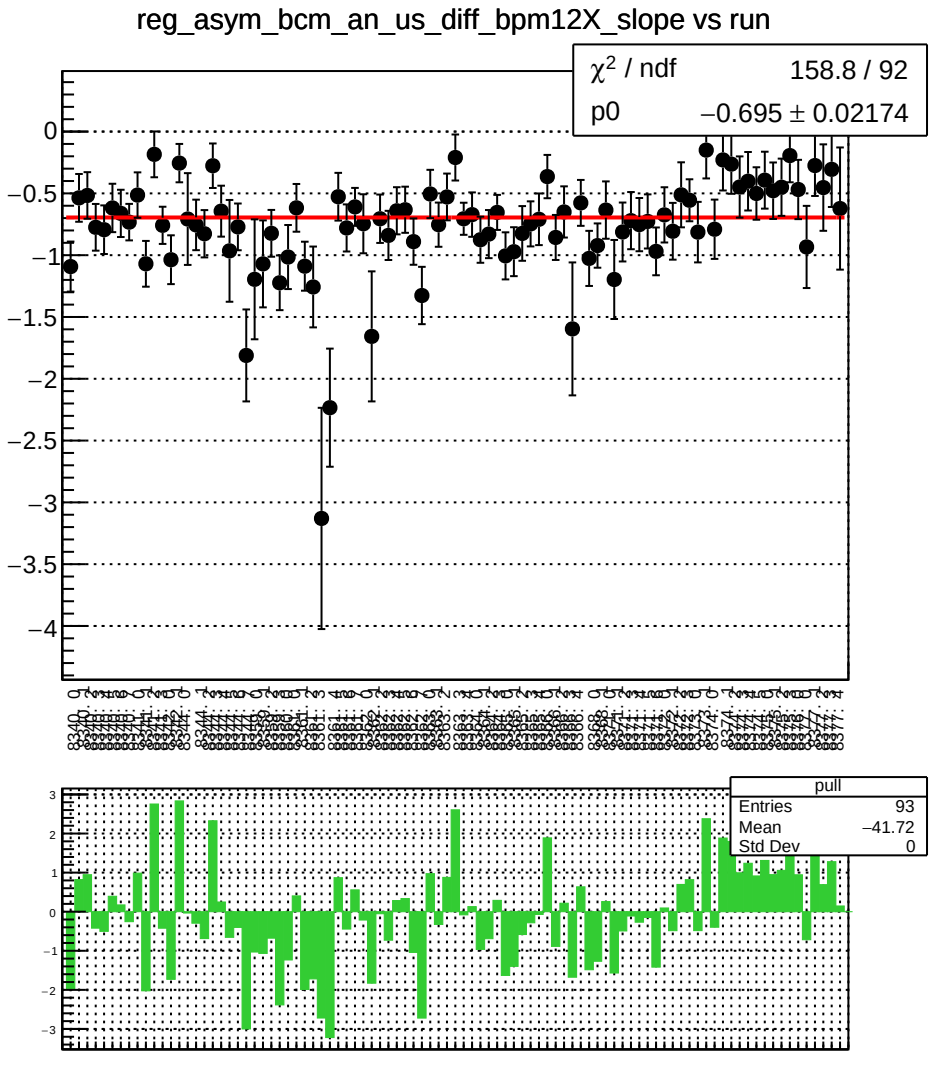

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 117.7 / 92
p0 1.399 ± 0.3518
pull
Entries 93
Mean 0.2326
Std Dev 0
pull1D
Entries 93
Mean −0.09368
Std Dev 1.121

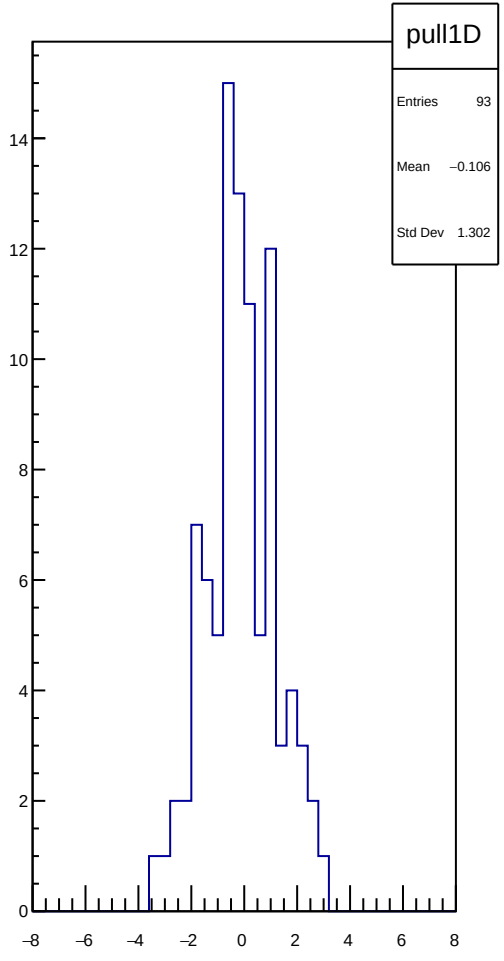

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 387.4 / 92
p0 −5.762 ± 0.203
pull
Entries 93
Mean −32.53
Std Dev 0

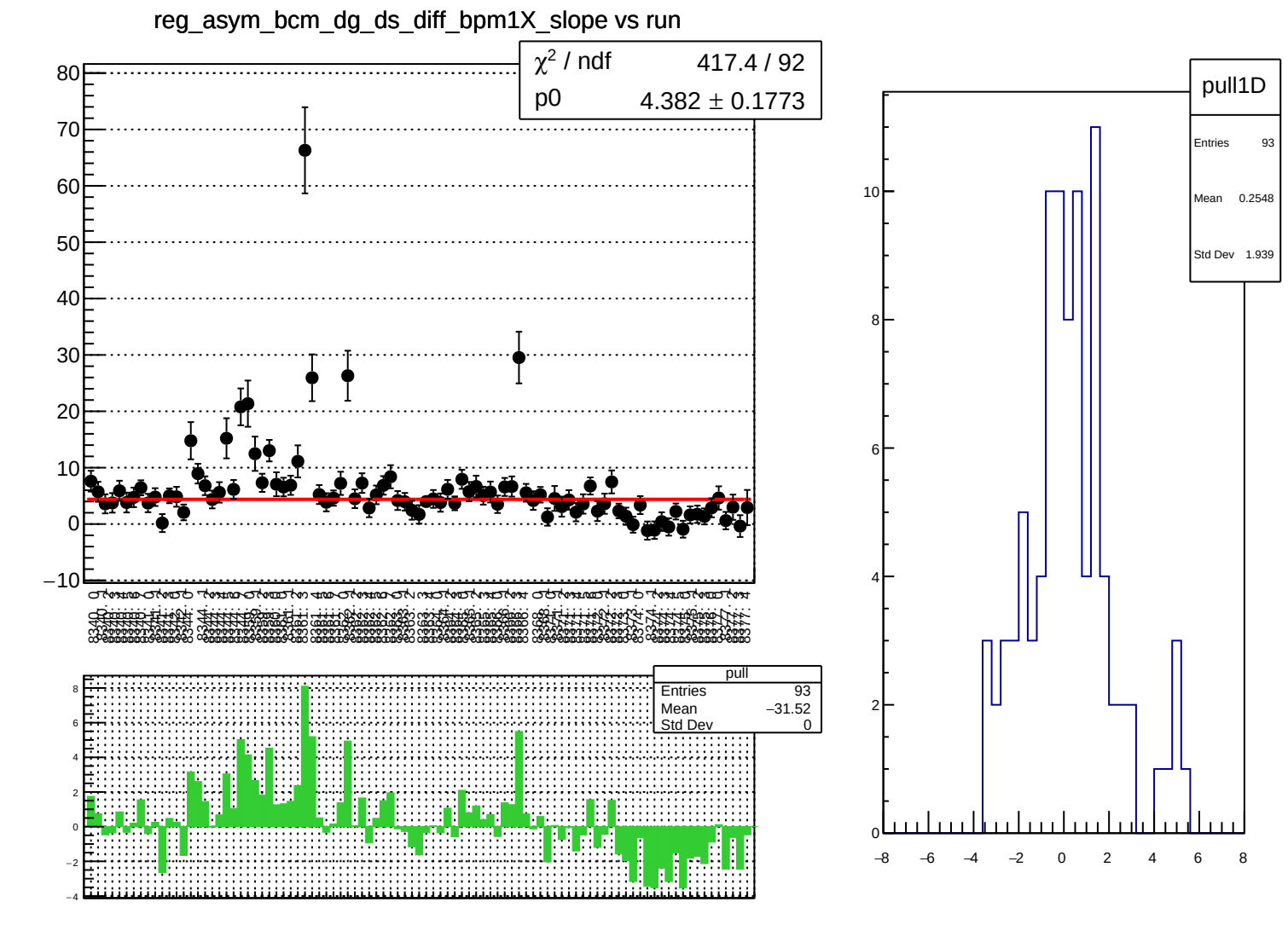

pull1D
Entries 93
Mean −0.3145
Std Dev 2.017

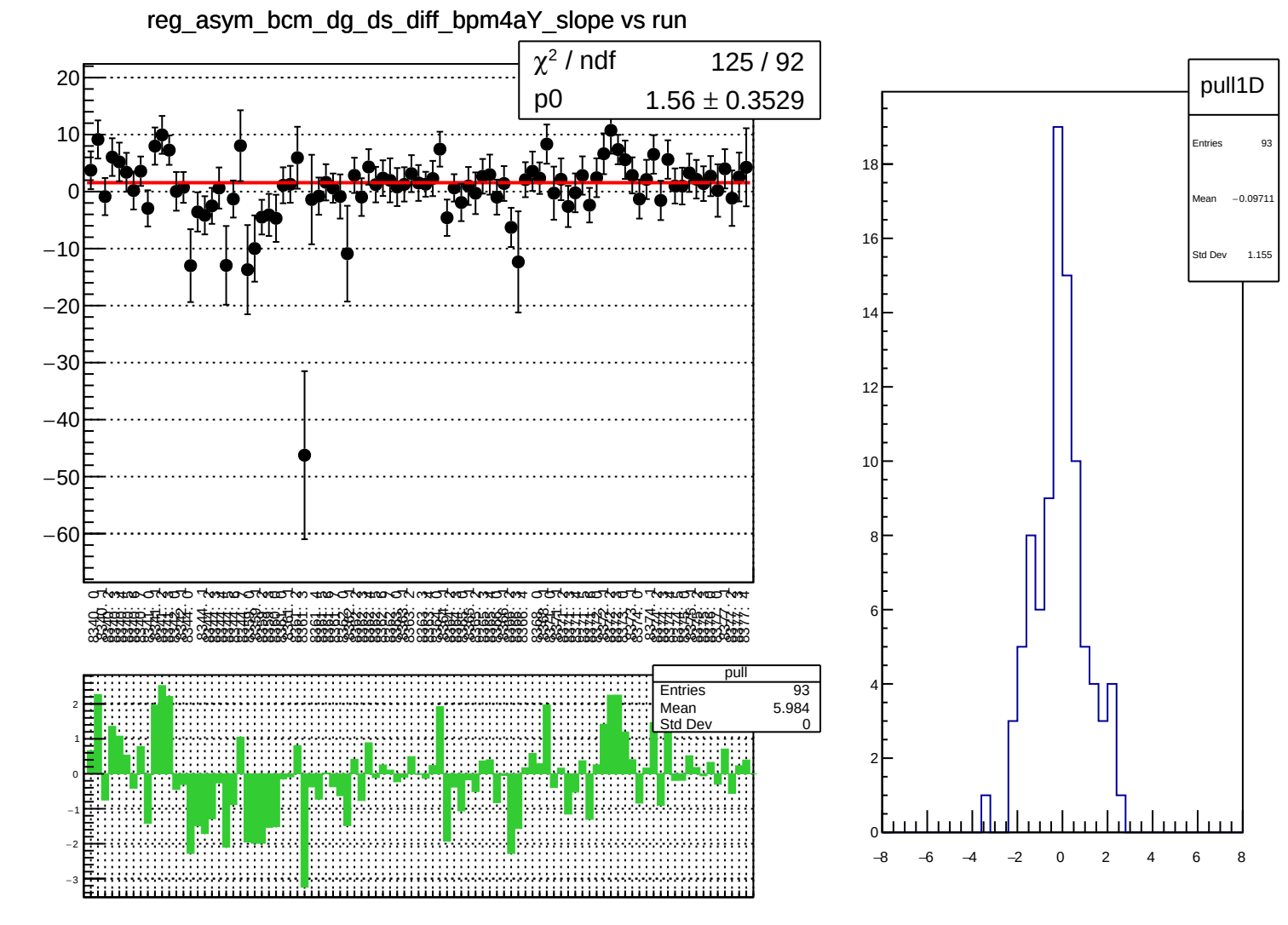

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 115.9 / 92
p0 −1.128 ± 0.3632
pull
Entries 93
Mean −7.955
Std Dev 0

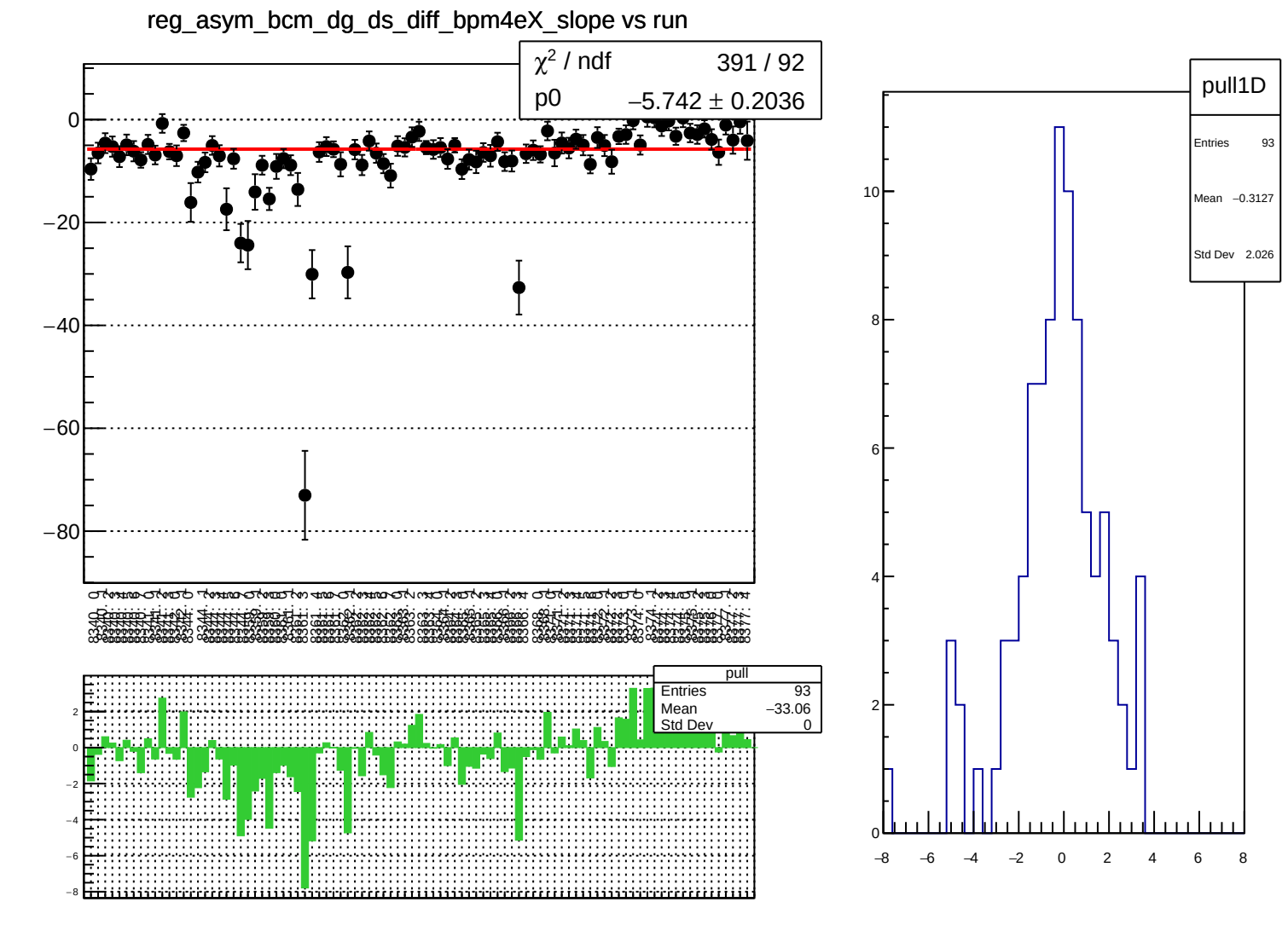

pull1D
Entries 93
Mean 0.09113
Std Dev 1.113

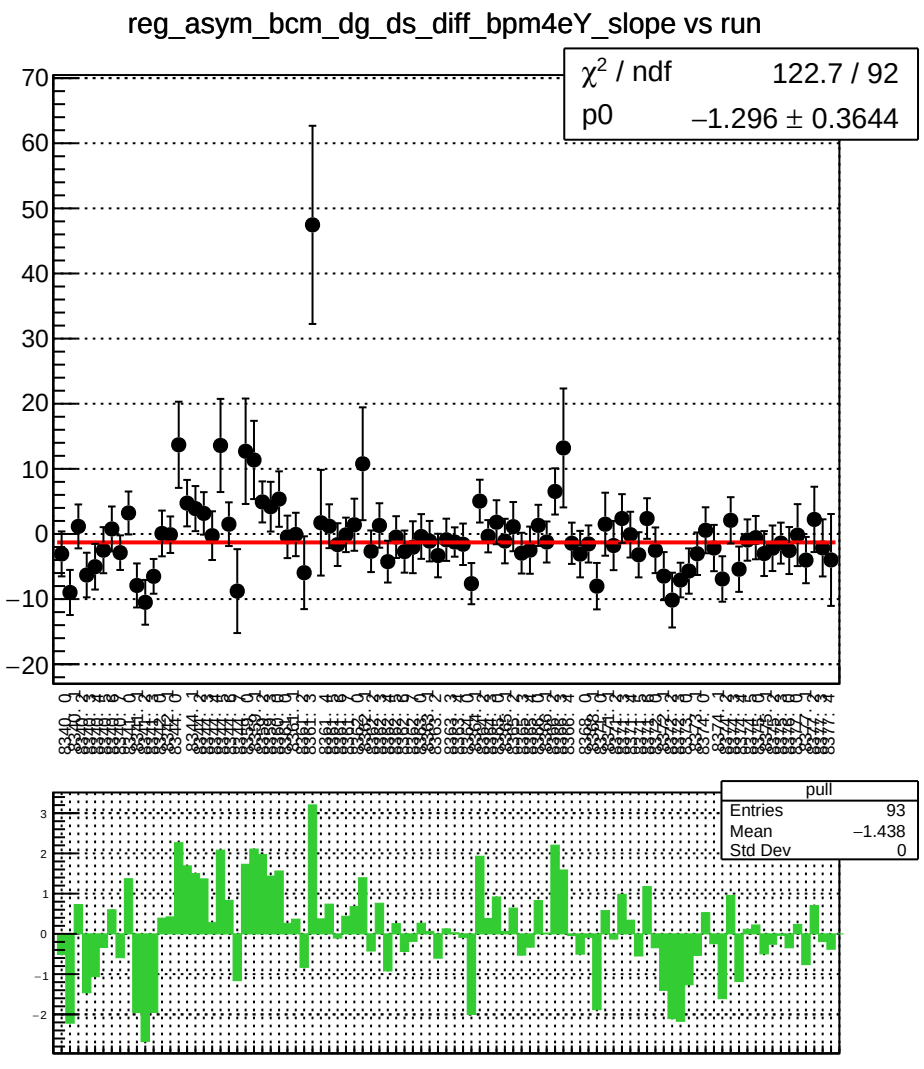

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 158.8 / 92
p0 −0.695 ± 0.02174
pull
Entries 93
Mean −41.72
Std Dev 0

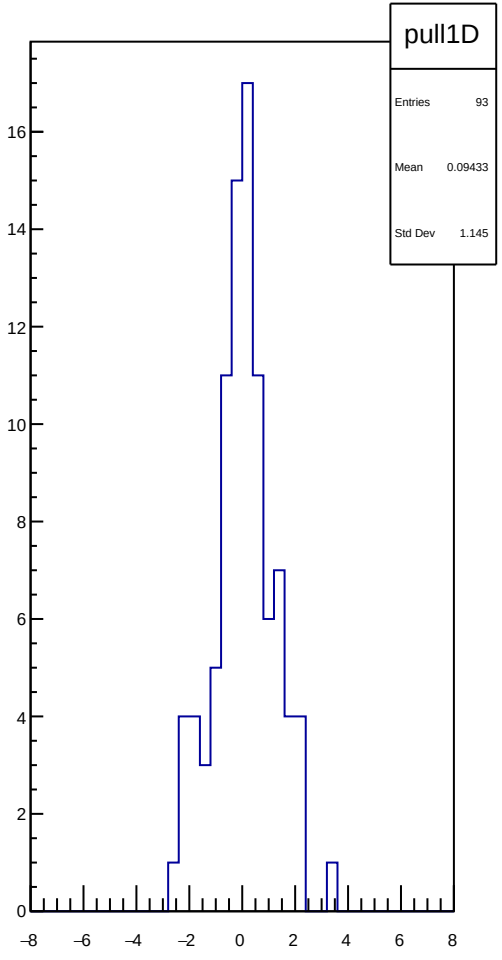

pull1D
Entries 93
Mean −0.106
Std Dev 1.302

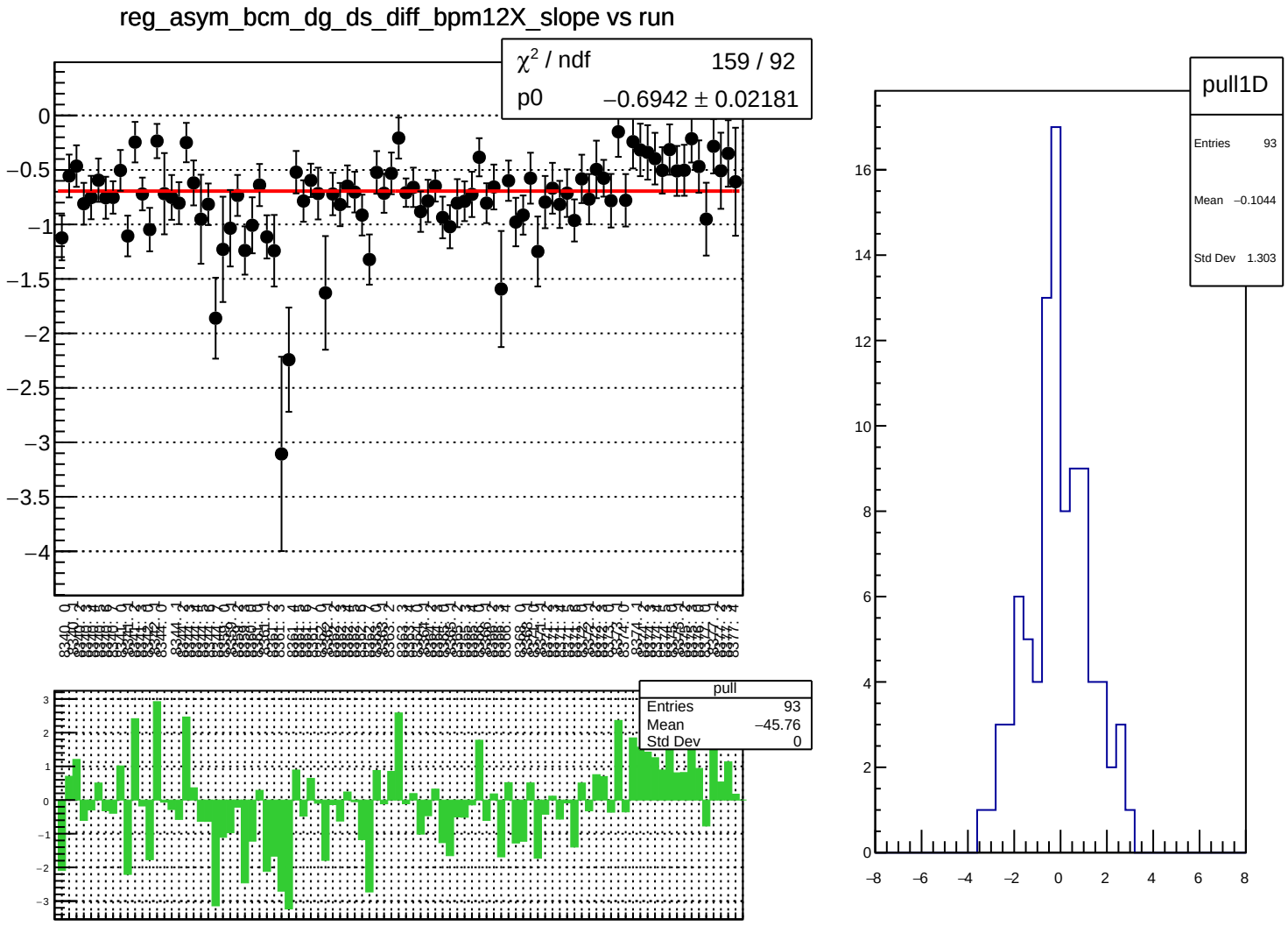

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 417.4 / 92
p0 4.382 ± 0.1773
pull
Entries 93
Mean −31.52
Std Dev 0
pull1D
Entries 93
Mean 0.2548
Std Dev 1.939

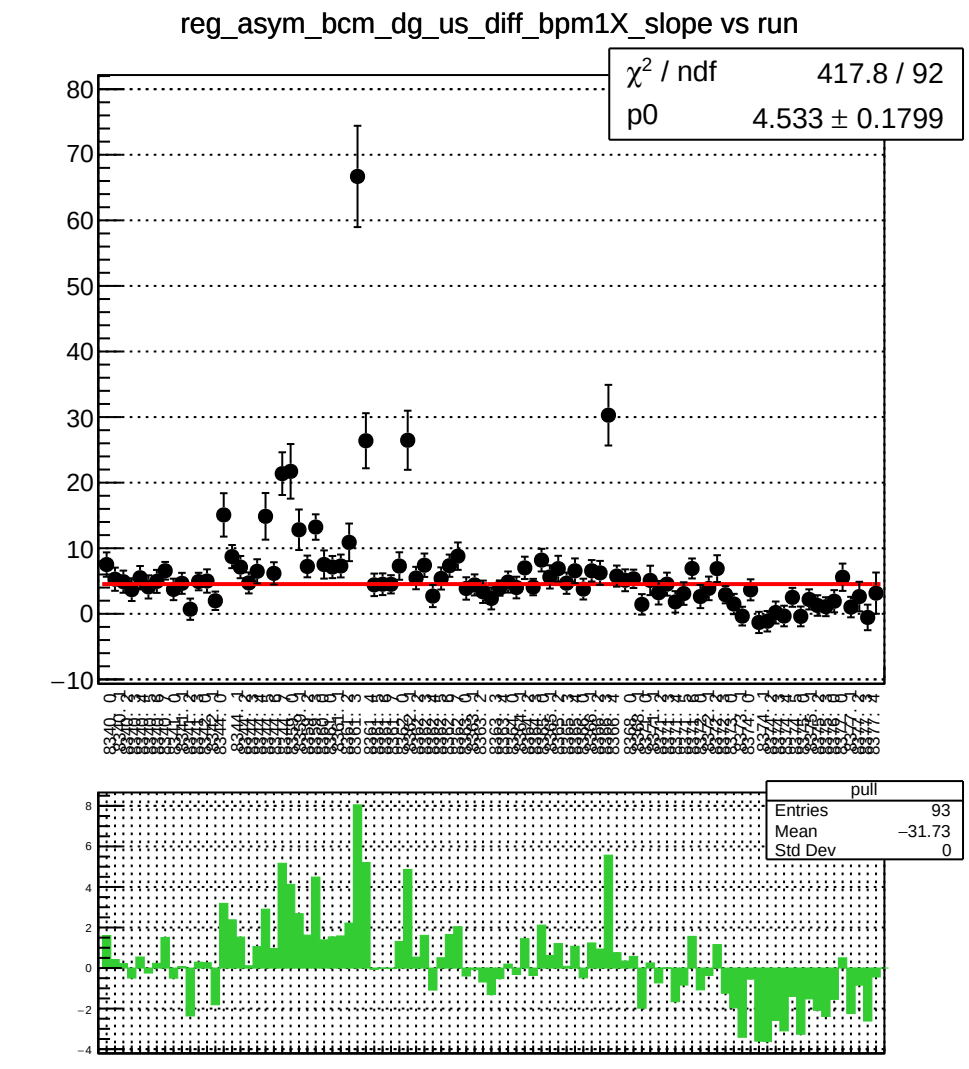

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 125 / 92
p0 1.56 ± 0.3529
pull
Entries 93
Mean 5.984
Std Dev 0
pull1D
Entries 93
Mean −0.09711
Std Dev 1.155

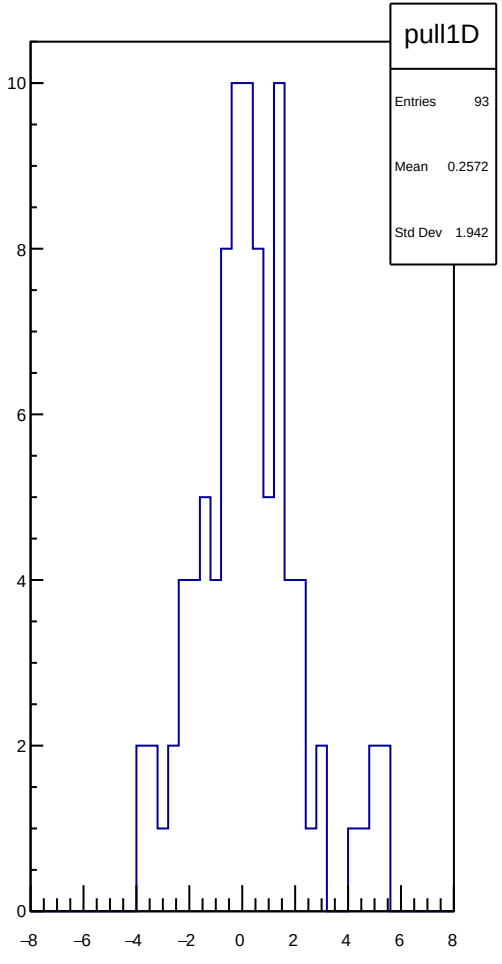

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 391 / 92
p0 −5.742 ± 0.2036
0
−20
−40
−60
−80
pull
Entries 93
Mean −33.06
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 93
Mean −0.3127
Std Dev 2.026
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

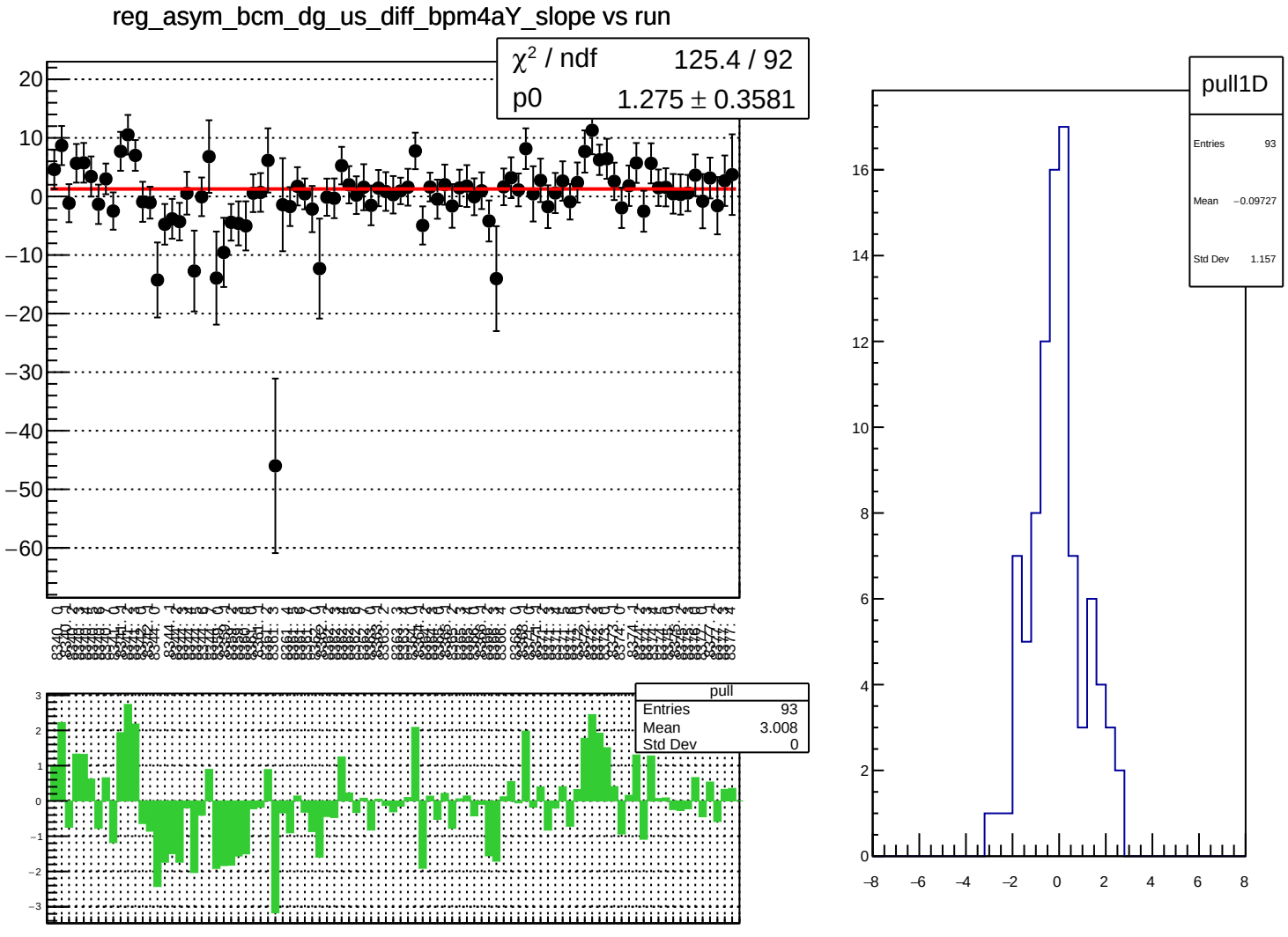

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 122.7 / 92
p0 −1.296 ± 0.3644
pull
Entries 93
Mean −1.438
Std Dev 0

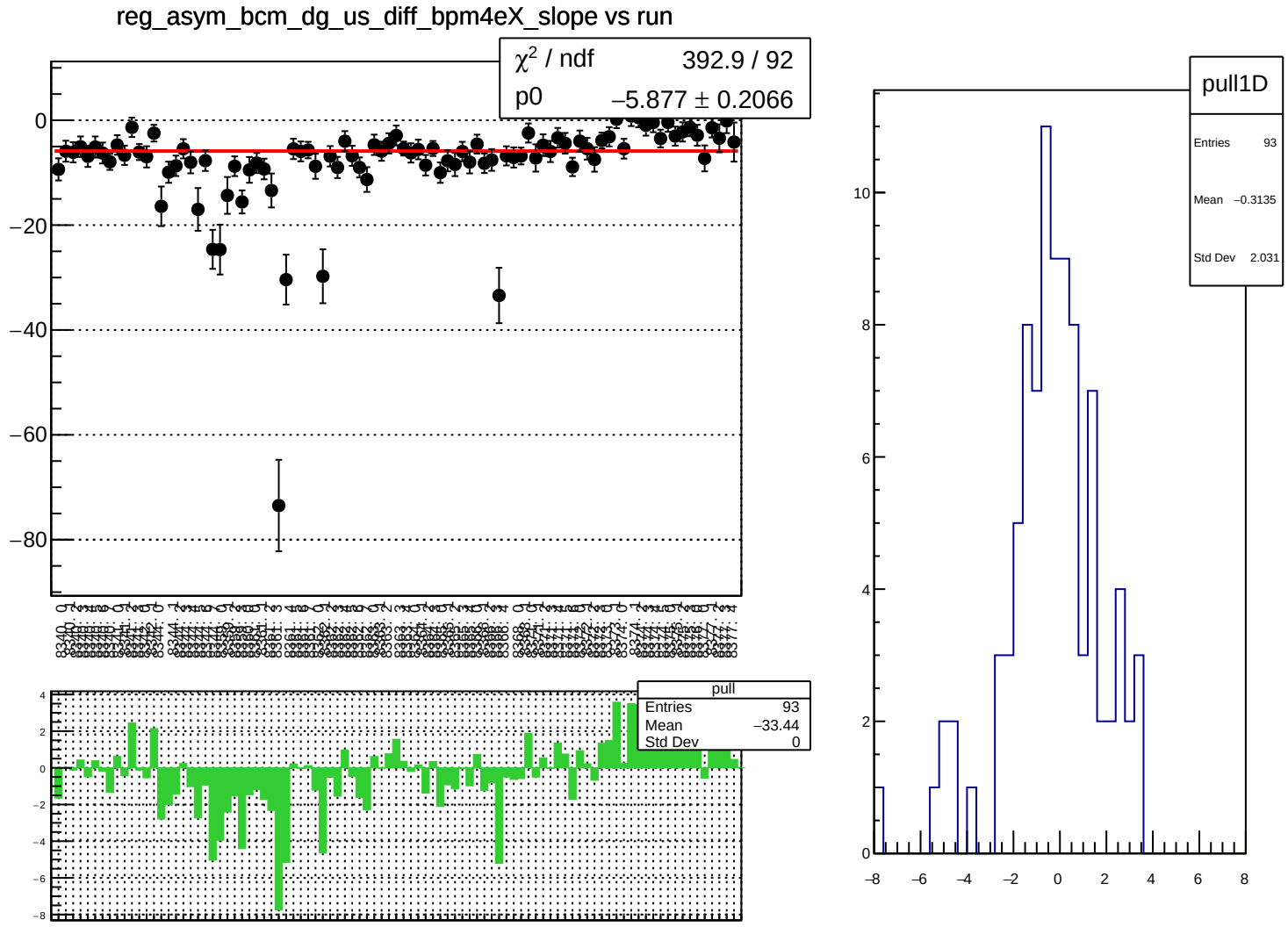

pull1D
Entries 93
Mean 0.09433
Std Dev 1.145

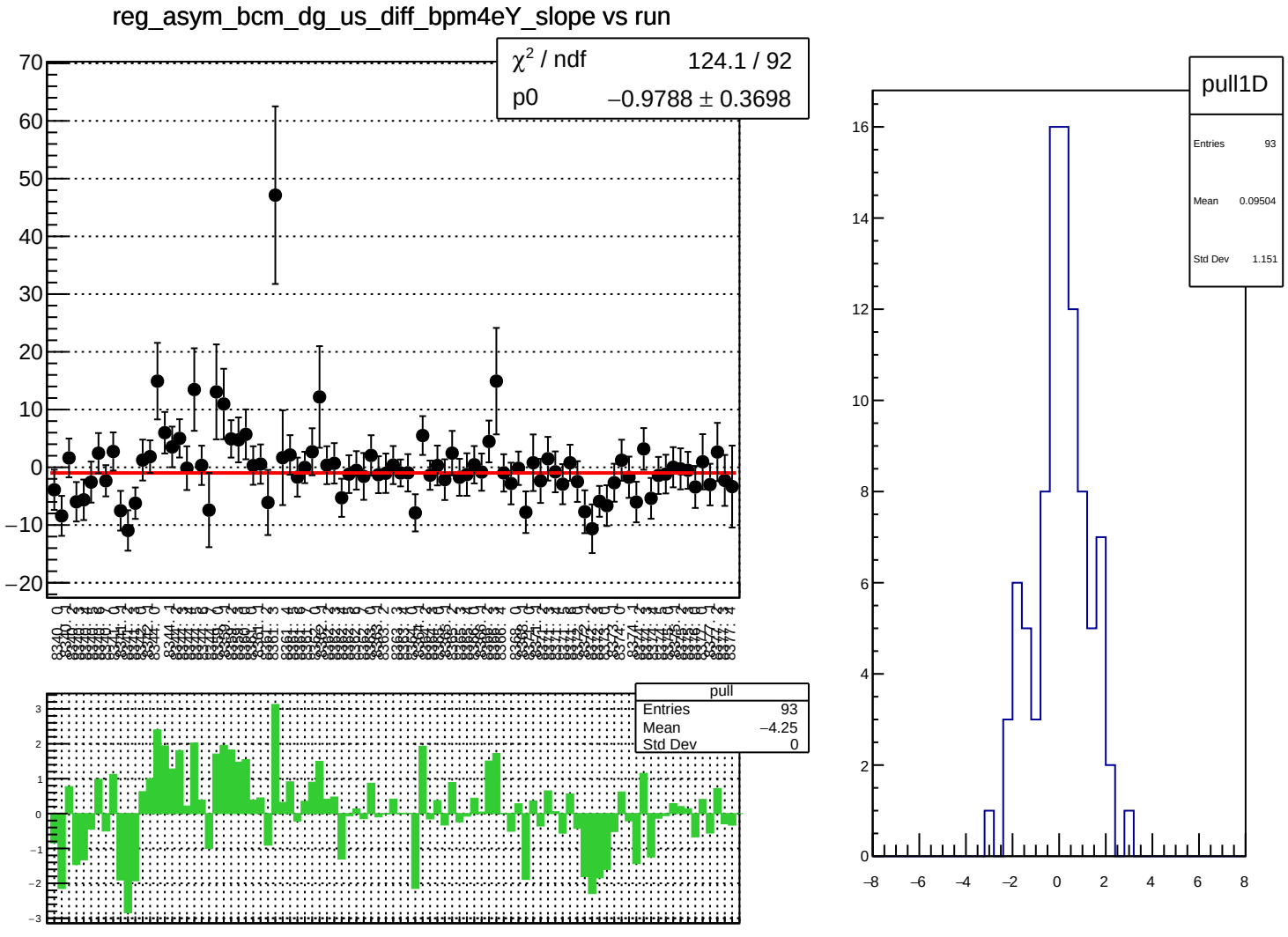

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 159 / 92
p0 −0.6942 ± 0.02181
pull
Entries 93
Mean −45.76
Std Dev 0
pull1D
Entries 93
Mean −0.1044
Std Dev 1.303

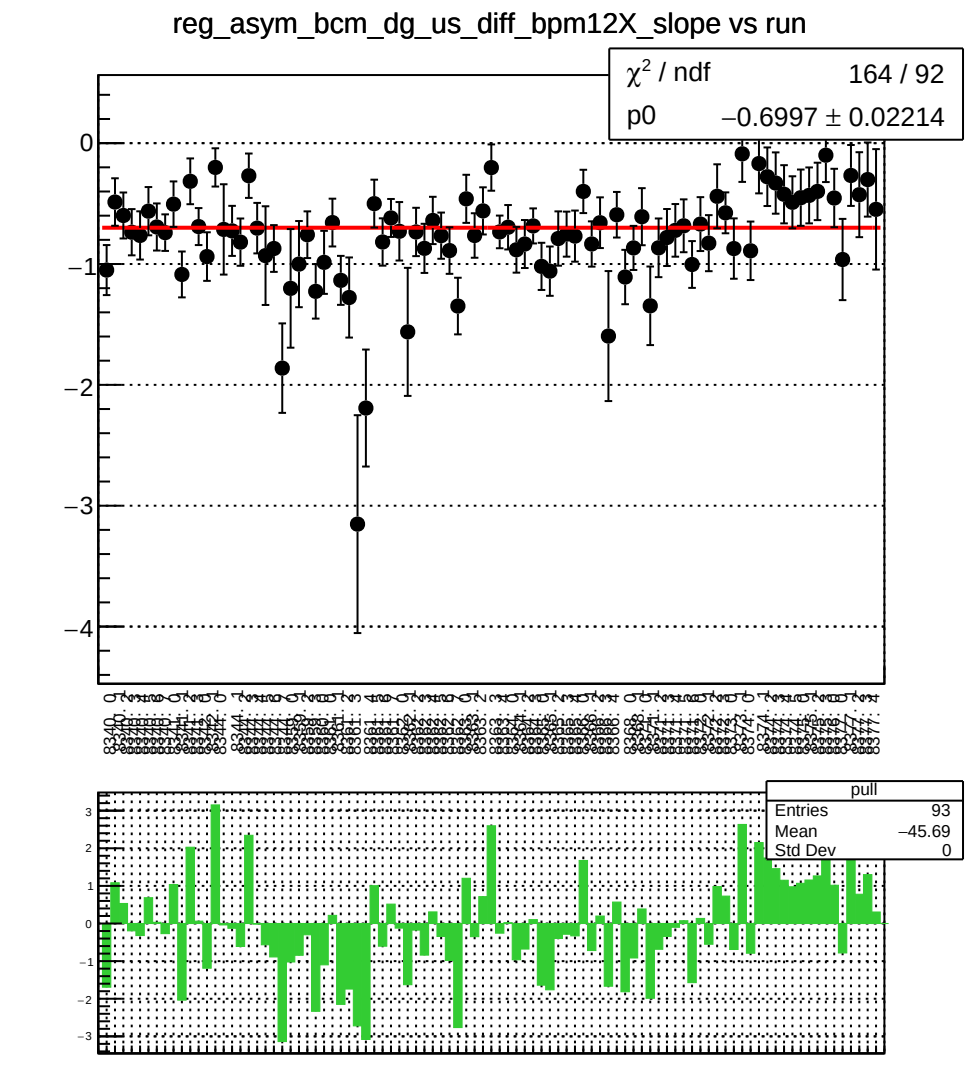

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 417.8 / 92
p0 4.533 ± 0.1799
pull
Entries 93
Mean −31.73
Std Dev 0

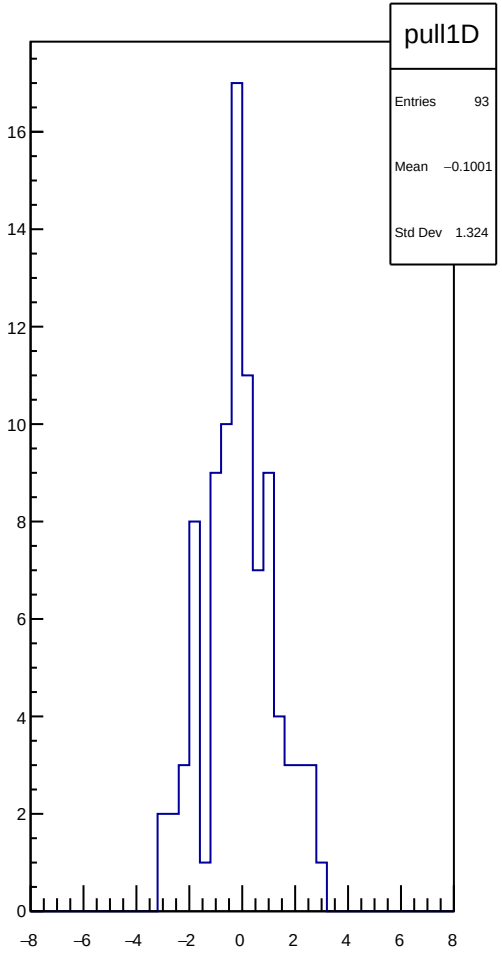

pull1D
Entries 93
Mean 0.2572
Std Dev 1.942

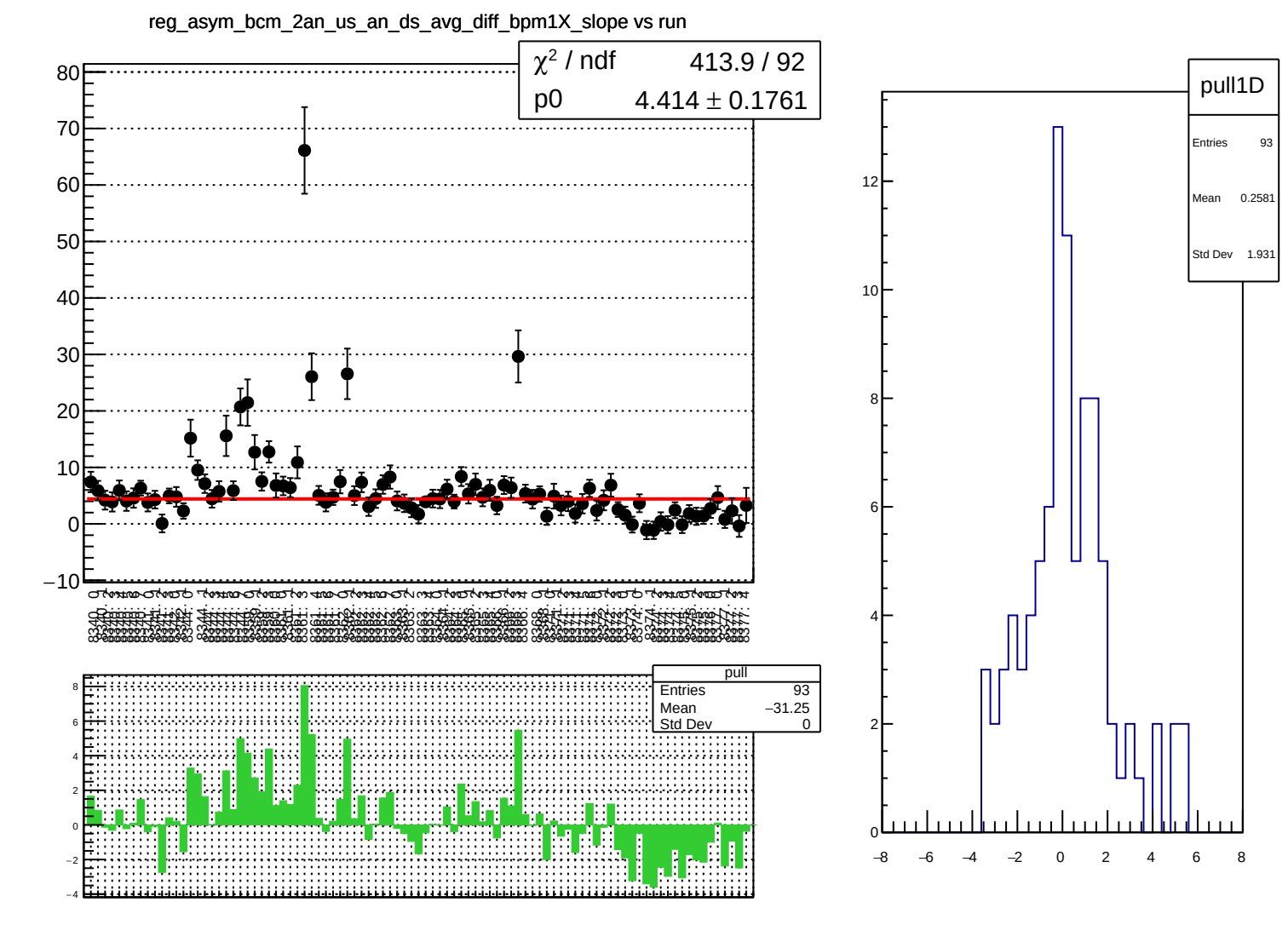

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 125.4 / 92
p0 1.275 ± 0.3581
pull
Entries 93
Mean 3.008
Std Dev 0
pull1D
Entries 93
Mean −0.09727
Std Dev 1.157

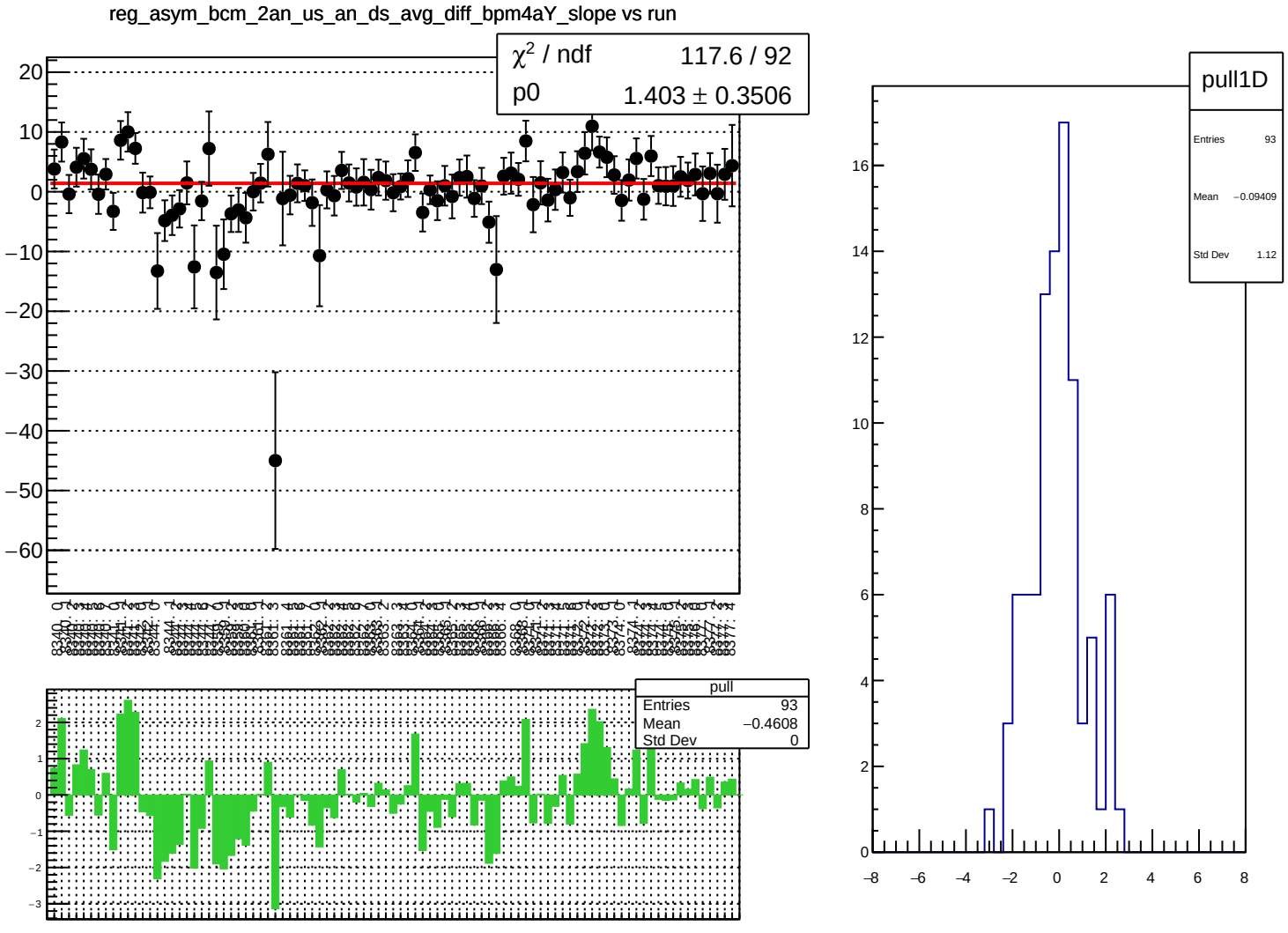

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 392.9 / 92
p0 −5.877 ± 0.2066
pull
Entries 93
Mean −33.44
Std Dev 0
pull1D
Entries 93
Mean −0.3135
Std Dev 2.031

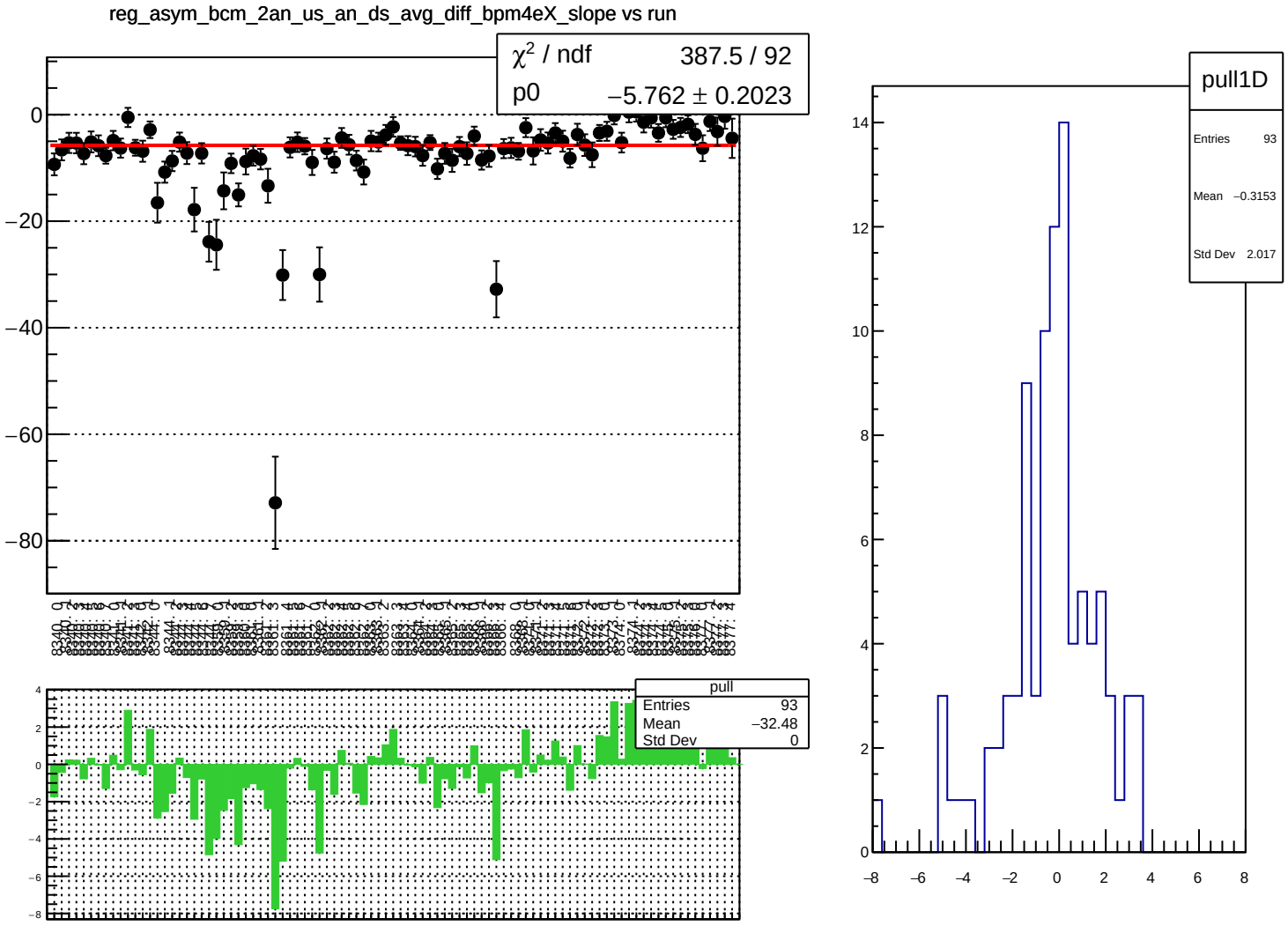

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 124.1 / 92
p0 −0.9788 ± 0.3698
pull
Entries 93
Mean −4.25
Std Dev 0
pull1D
Entries 93
Mean 0.09504
Std Dev 1.151

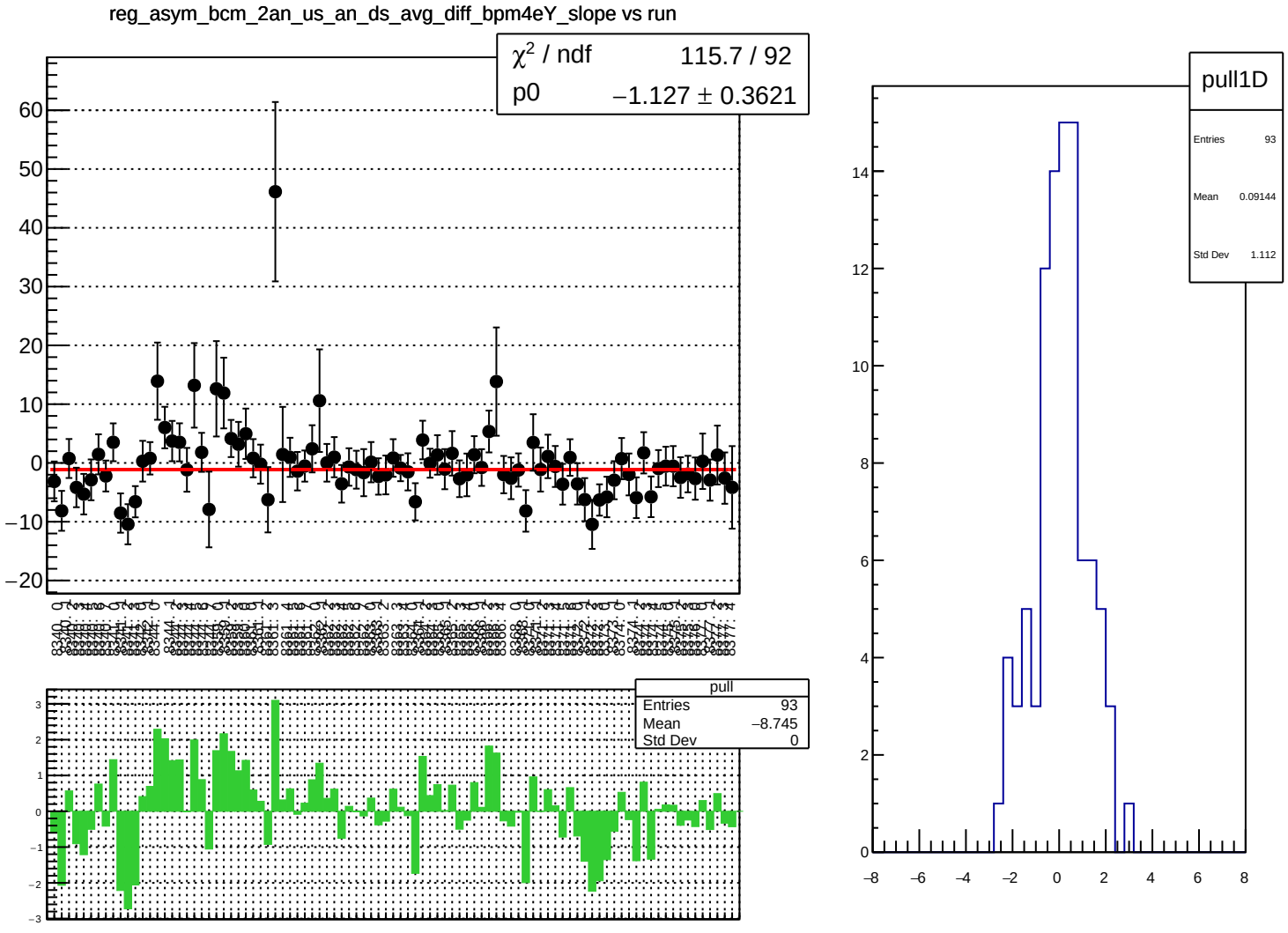

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 164 / 92
p0 −0.6997 ± 0.02214
pull
Entries 93
Mean −45.69
Std Dev 0

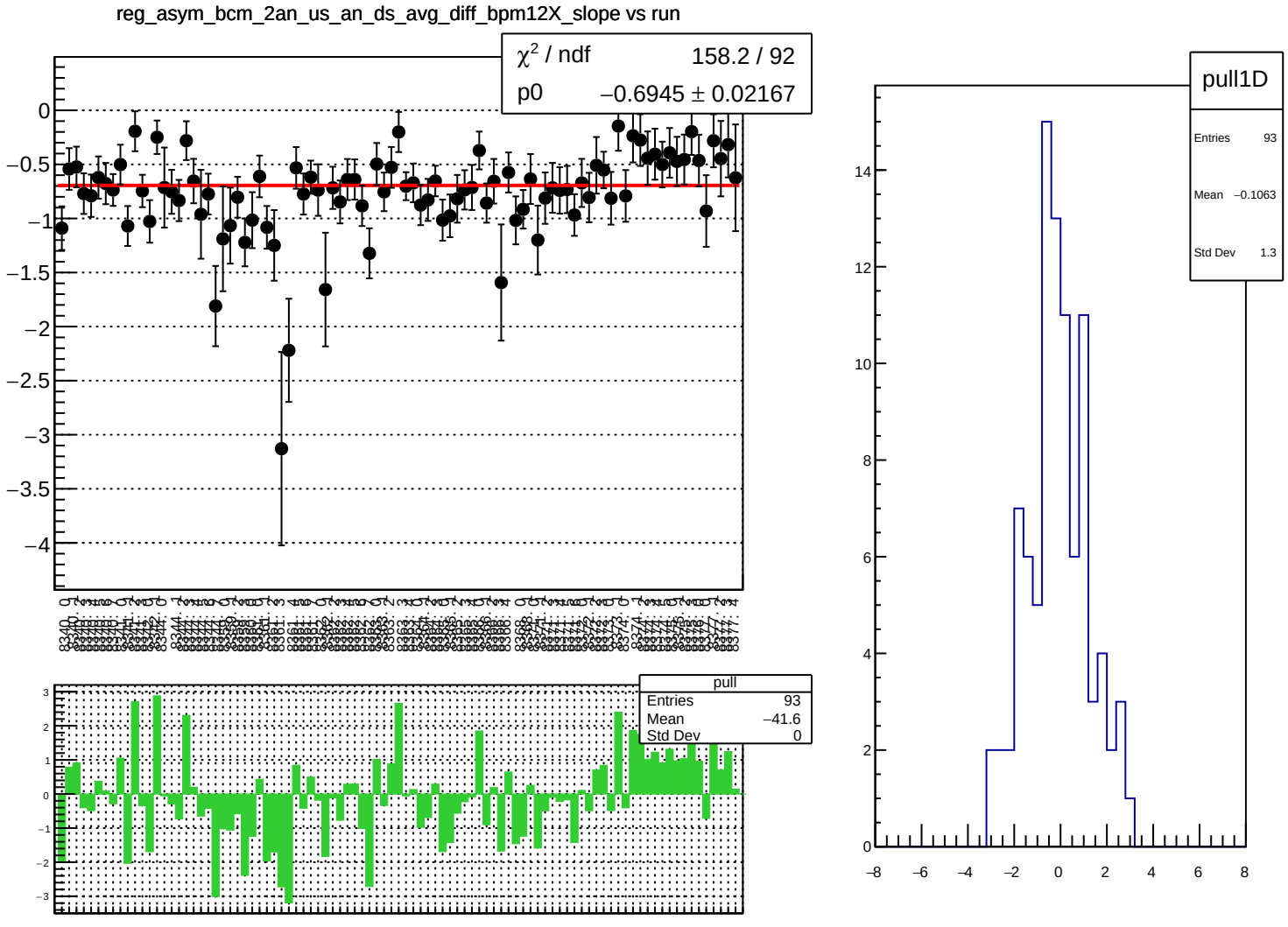

pull1D
Entries 93
Mean −0.1001
Std Dev 1.324

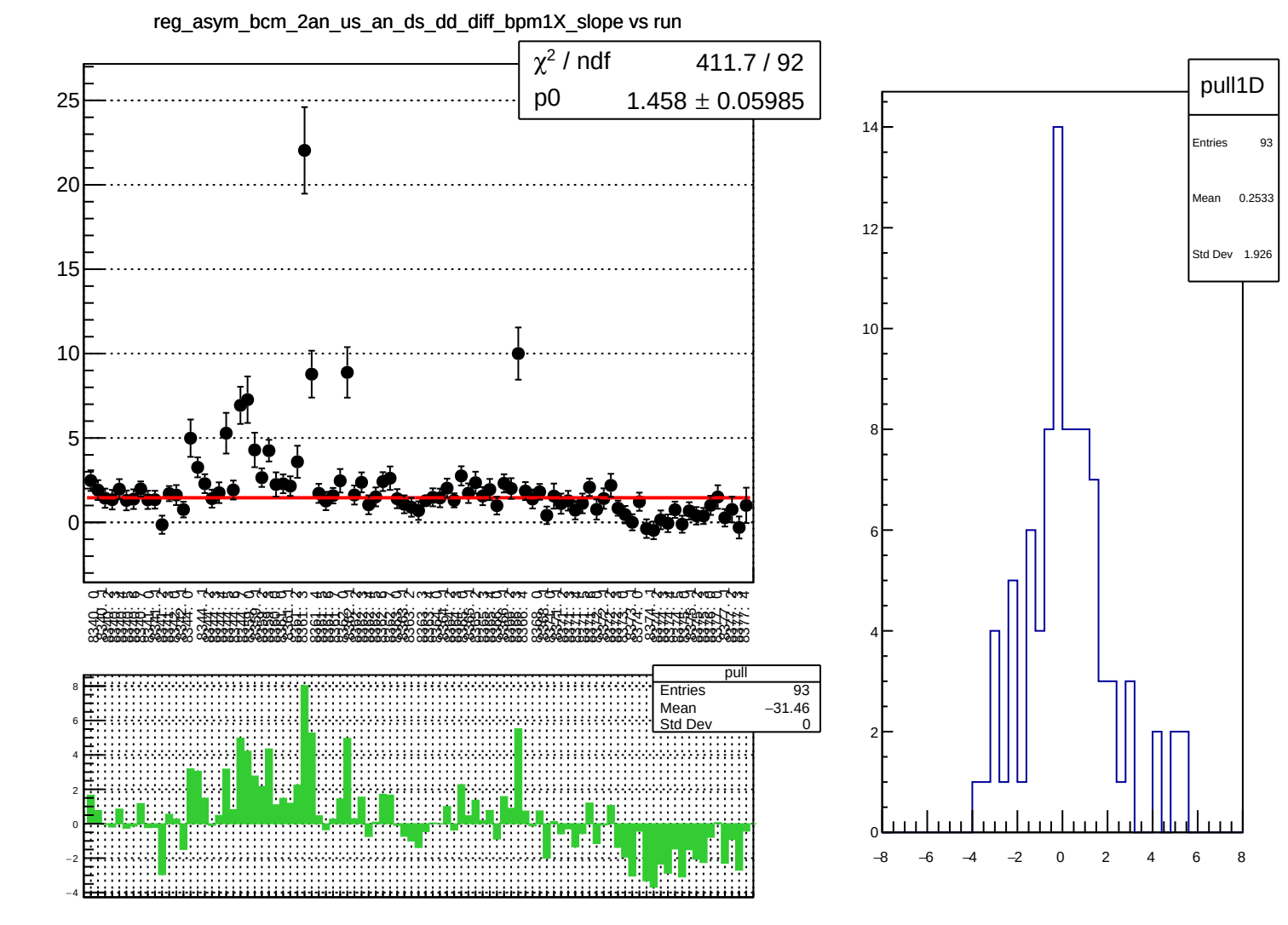

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 413.9 / 92
p0 4.414 ± 0.1761
pull
Entries 93
Mean −31.25
Std Dev 0
pull1D
Entries 93
Mean 0.2581
Std Dev 1.931

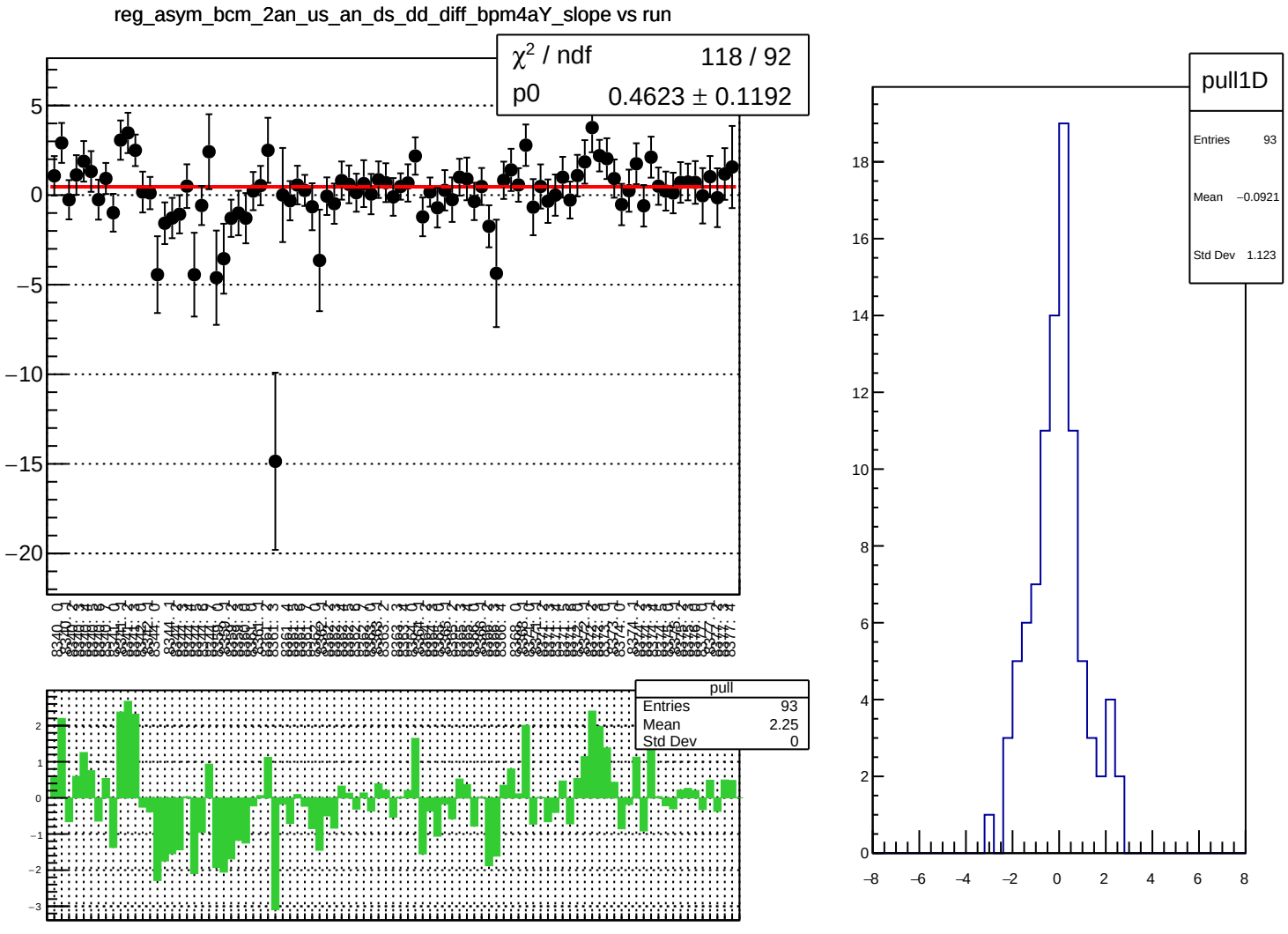

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 117.6 / 92
p0 1.403 ± 0.3506
pull
Entries 93
Mean −0.4608
Std Dev 0
pull1D
Entries 93
Mean −0.09409
Std Dev 1.12

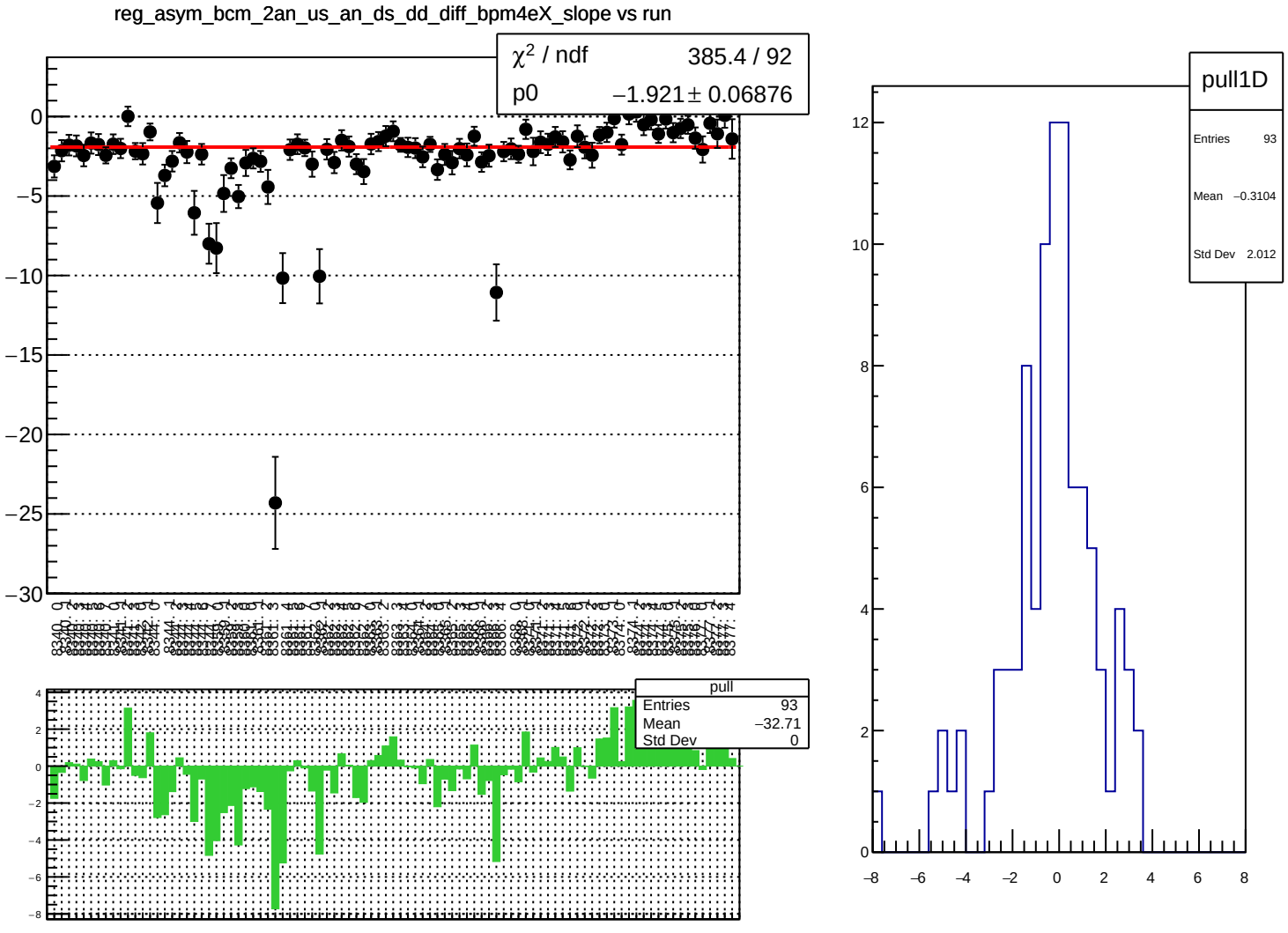

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 387.5 / 92
p0 −5.762 ± 0.2023
pull
Entries 93
Mean −32.48
Std Dev 0
pull1D
Entries 93
Mean −0.3153
Std Dev 2.017

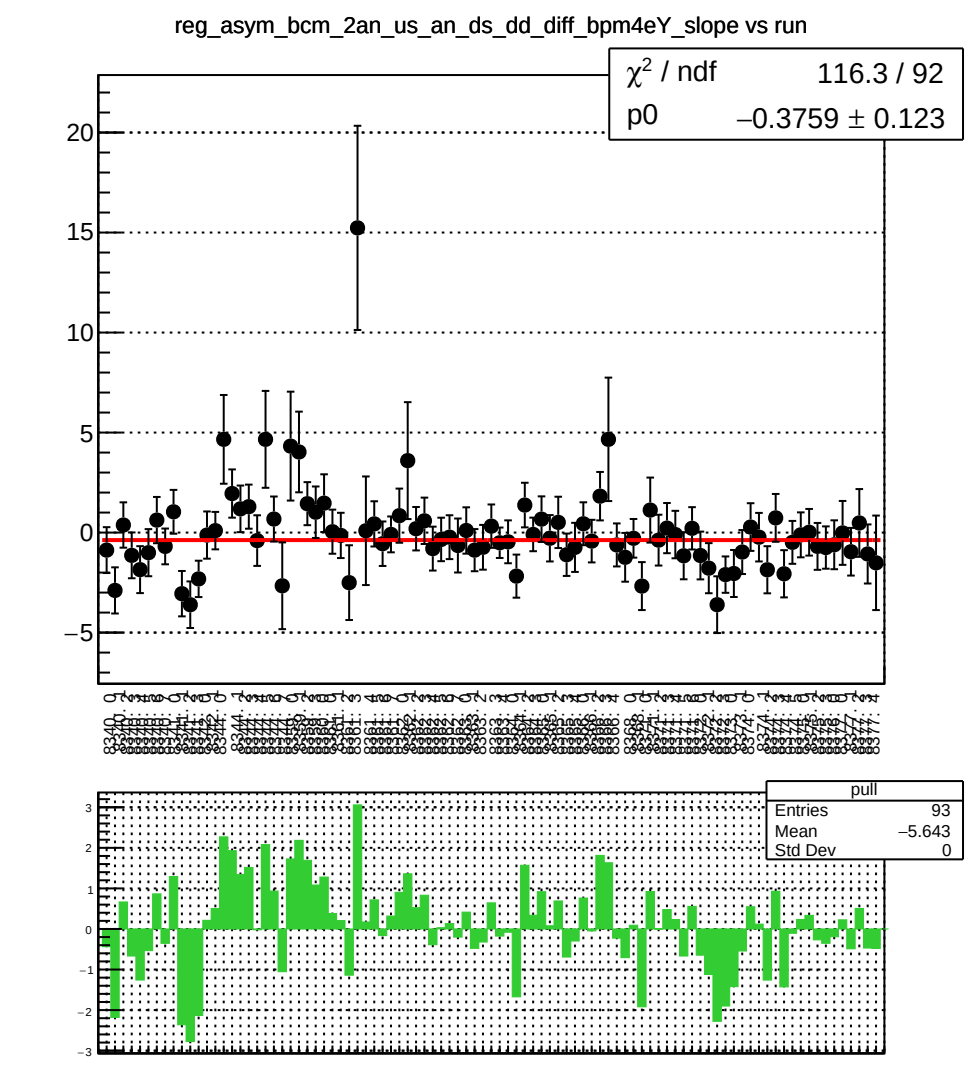

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.7 / 92
p0 −1.127 ± 0.3621
pull
Entries 93
Mean −8.745
Std Dev 0
pull1D
Entries 93
Mean 0.09144
Std Dev 1.112

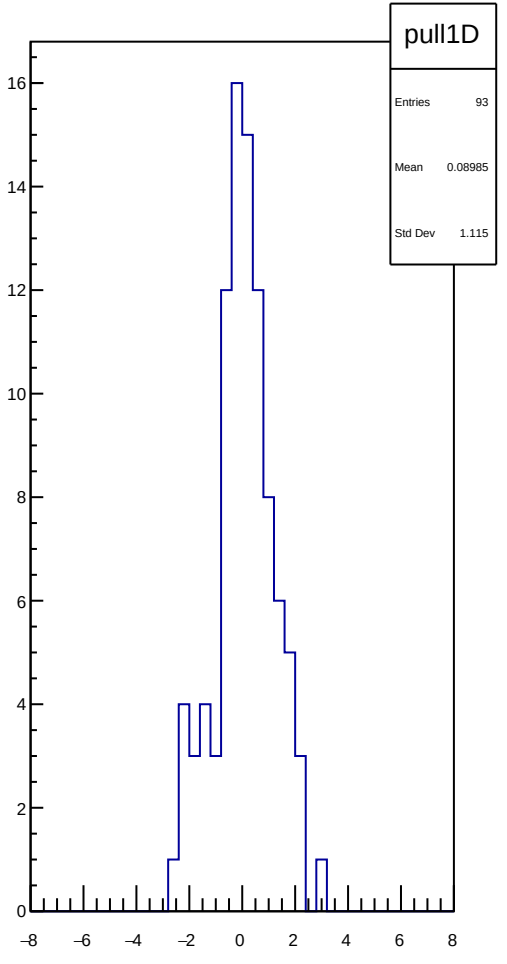

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 158.2 / 92
p0 −0.6945 ± 0.02167
pull
Entries 93
Mean −41.6
Std Dev 0
pull1D
Entries 93
Mean −0.1063
Std Dev 1.3

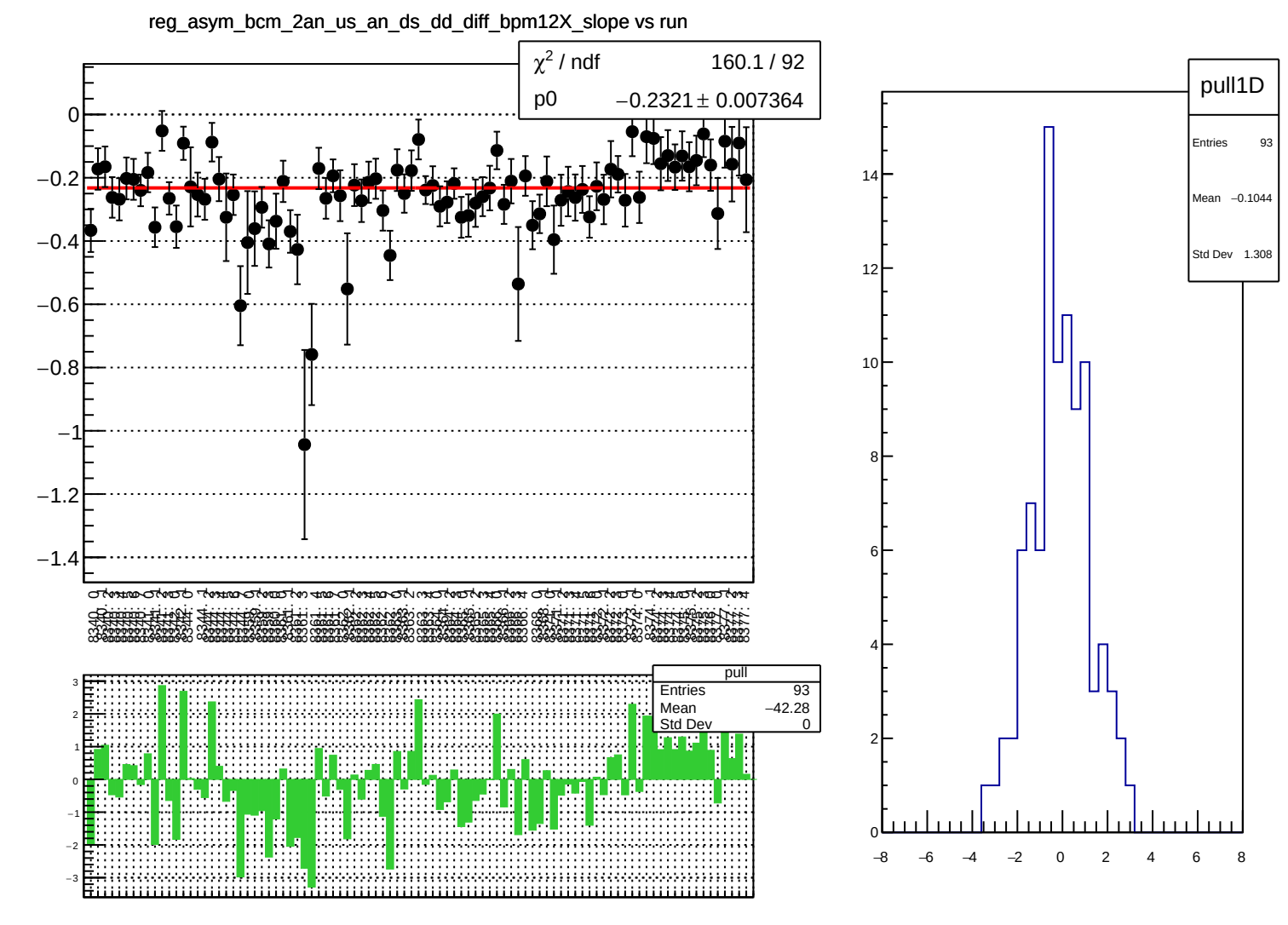

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 411.7 / 92
p0 1.458 ± 0.05985
pull
Entries 93
Mean −31.46
Std Dev 0
pull1D
Entries 93
Mean 0.2533
Std Dev 1.926

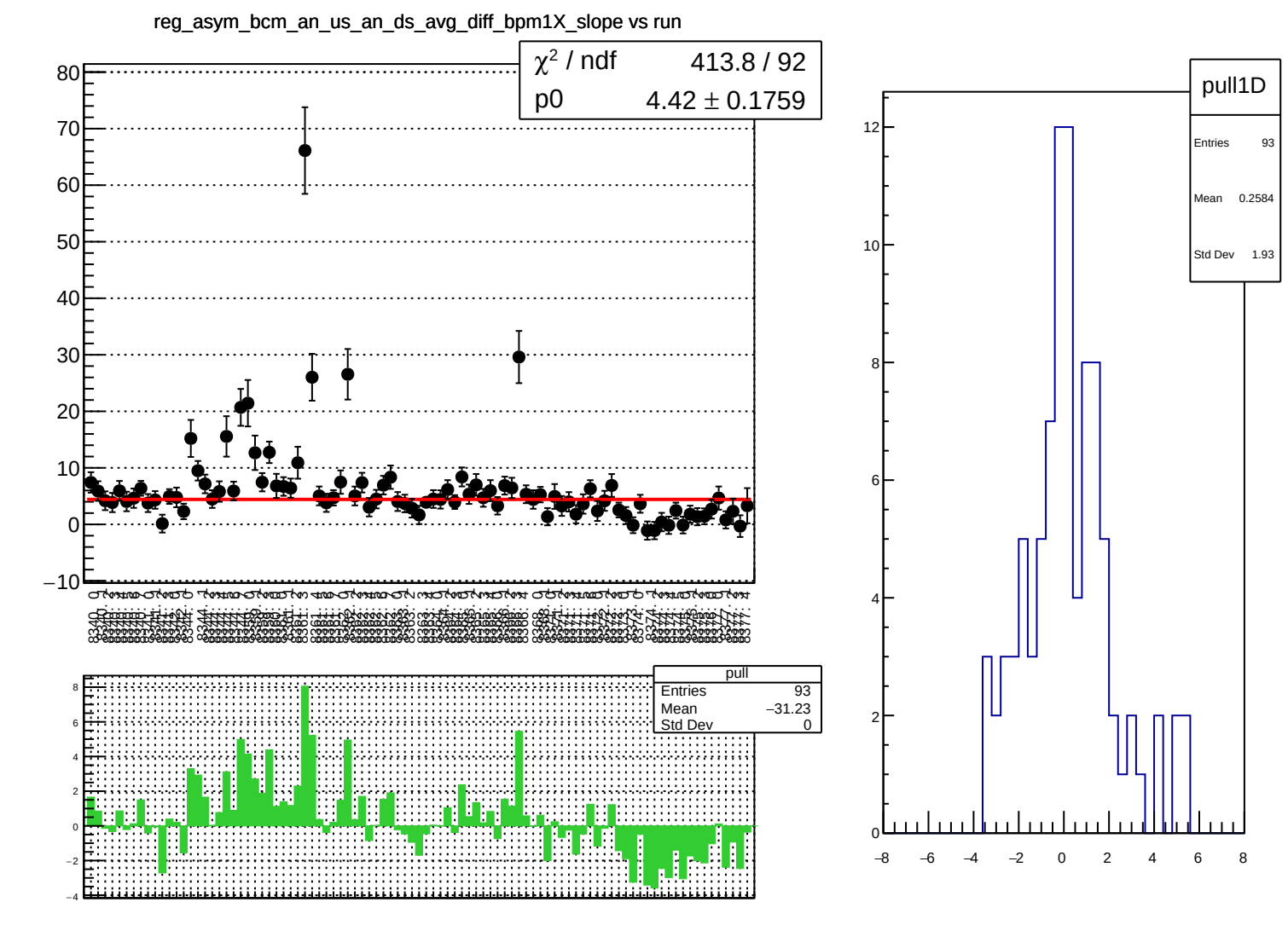

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 118 / 92
p0 0.4623 ± 0.1192
pull
Entries 93
Mean 2.25
Std Dev 0
pull1D
Entries 93
Mean −0.0921
Std Dev 1.123

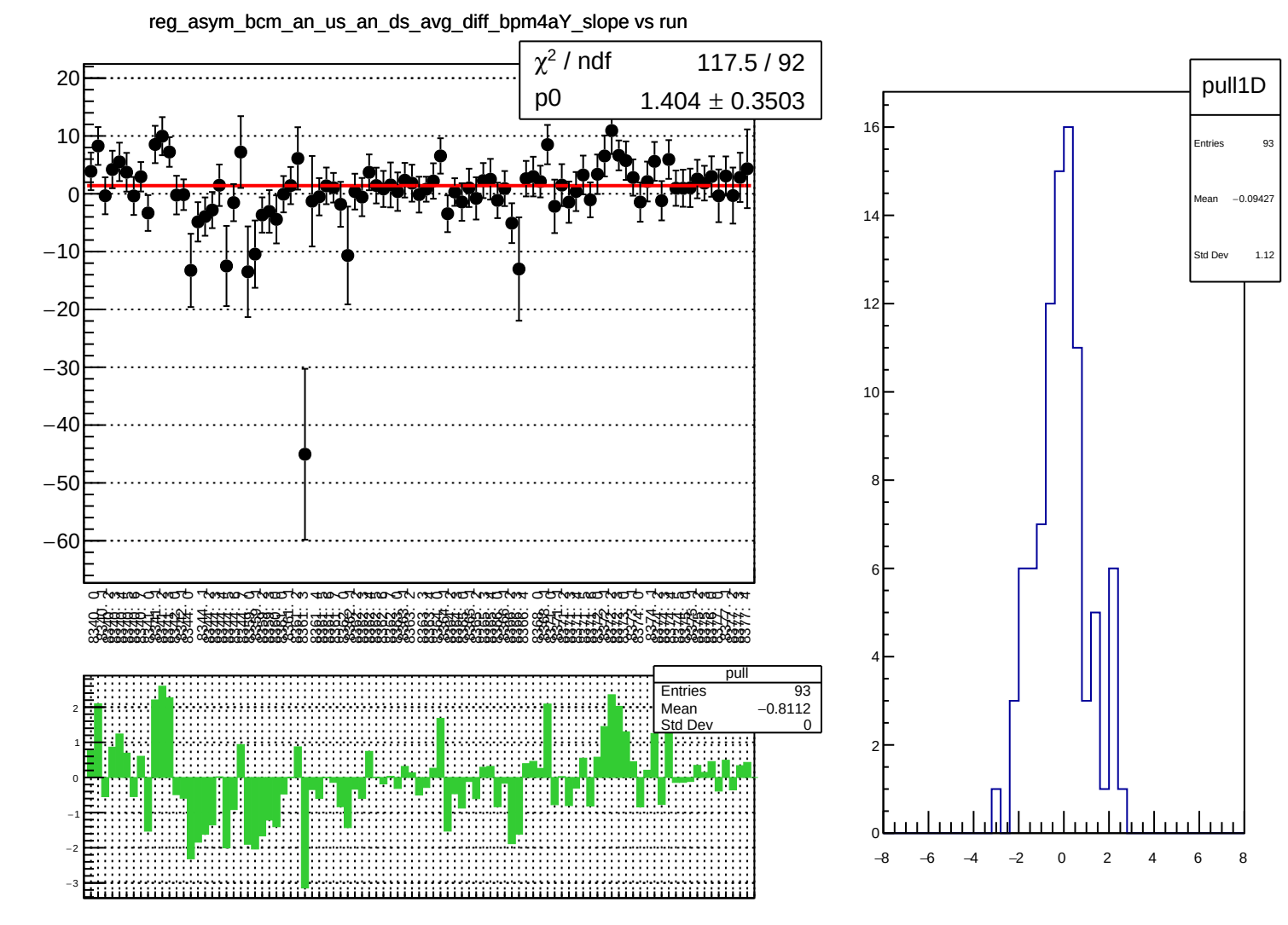

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 385.4 / 92
p0 −1.921 ± 0.06876
pull
Entries 93
Mean −32.71
Std Dev 0
pull1D
Entries 93
Mean −0.3104
Std Dev 2.012

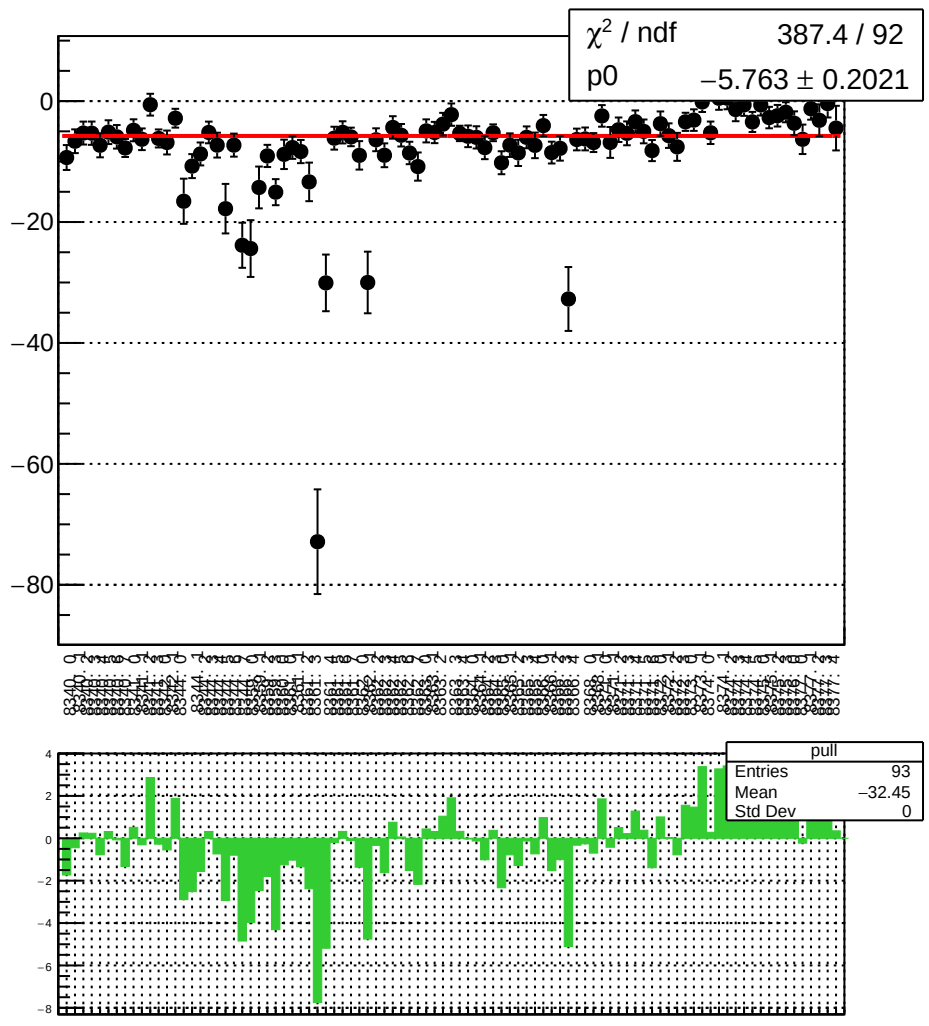

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 116.3 / 92
p0 −0.3759 ± 0.123
pull
Entries 93
Mean −5.643
Std Dev 0

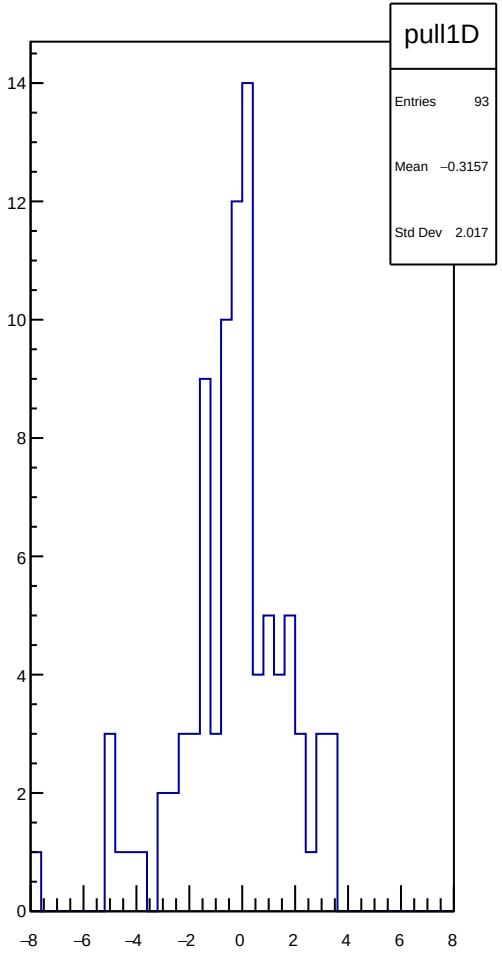

pull1D
Entries 93
Mean 0.08985
Std Dev 1.115

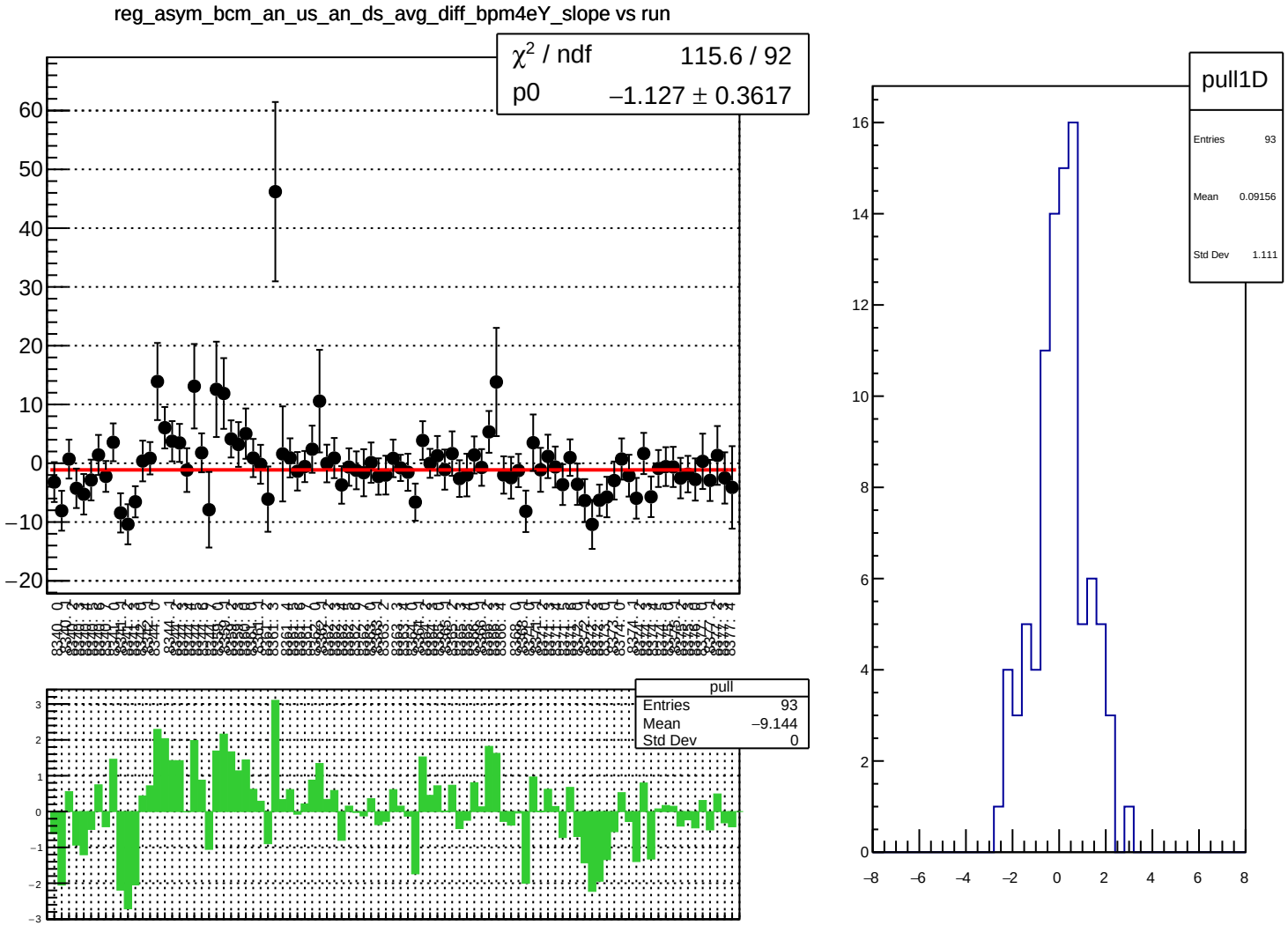

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 160.1 / 92
p0 −0.2321 ± 0.007364
pull
Entries 93
Mean −42.28
Std Dev 0
pull1D
Entries 93
Mean −0.1044
Std Dev 1.308

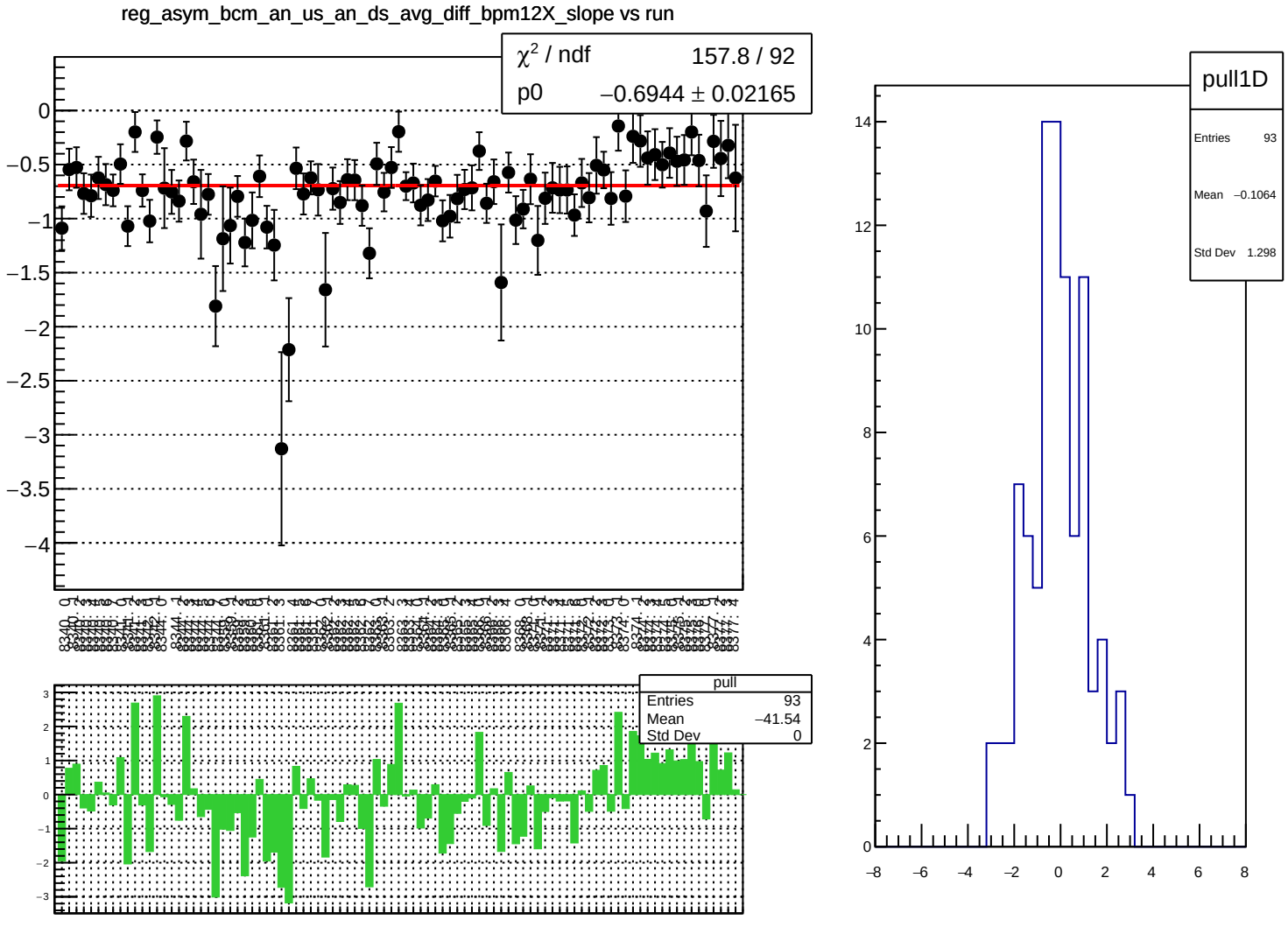

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 413.8 / 92
p0 4.42 ± 0.1759
pull
Entries 93
Mean −31.23
Std Dev 0
pull1D
Entries 93
Mean 0.2584
Std Dev 1.93

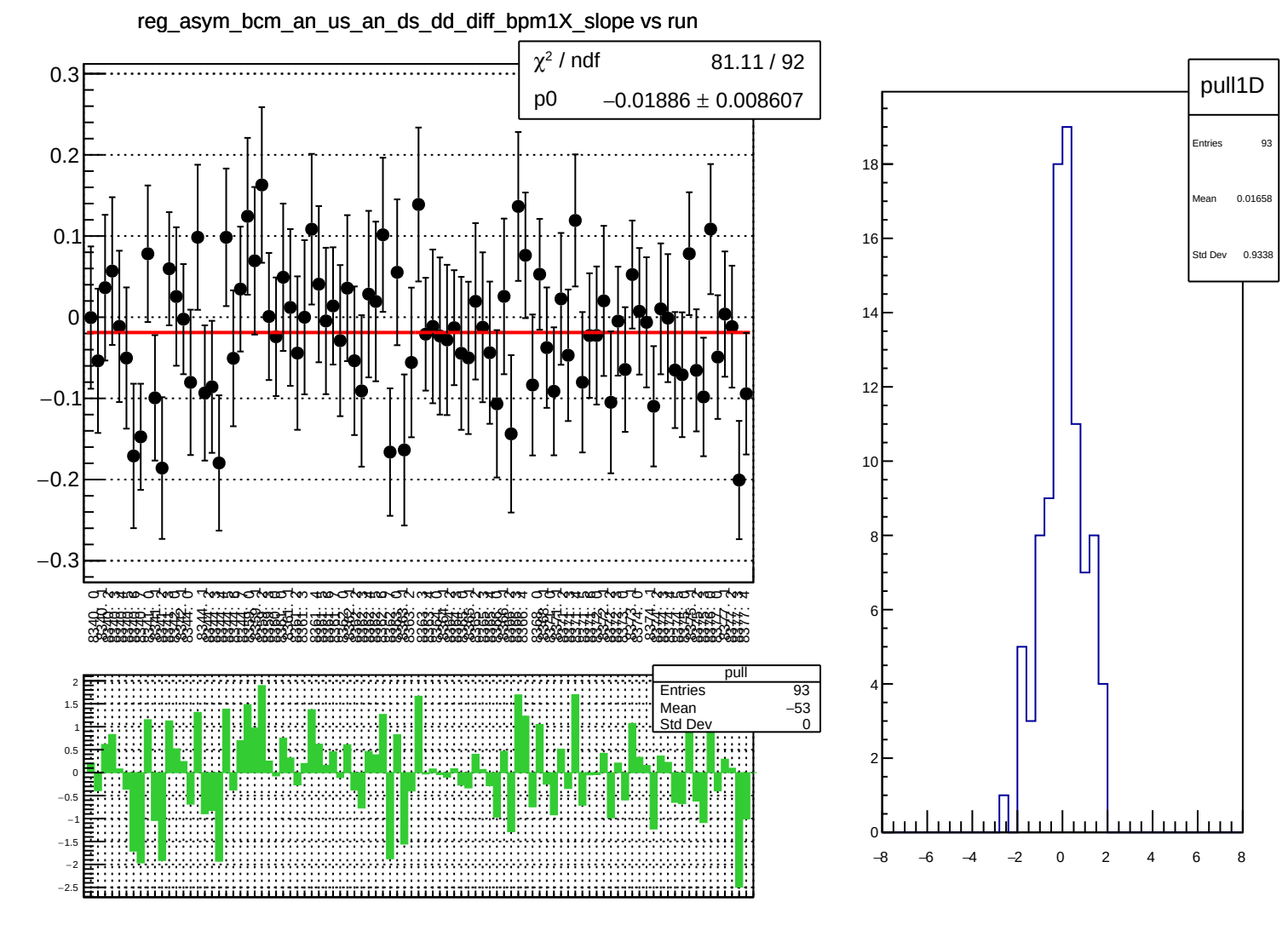

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 117.5 / 92
p0 1.404 ± 0.3503
pull
Entries 93
Mean −0.8112
Std Dev 0
pull1D
Entries 93
Mean −0.09427
Std Dev 1.12

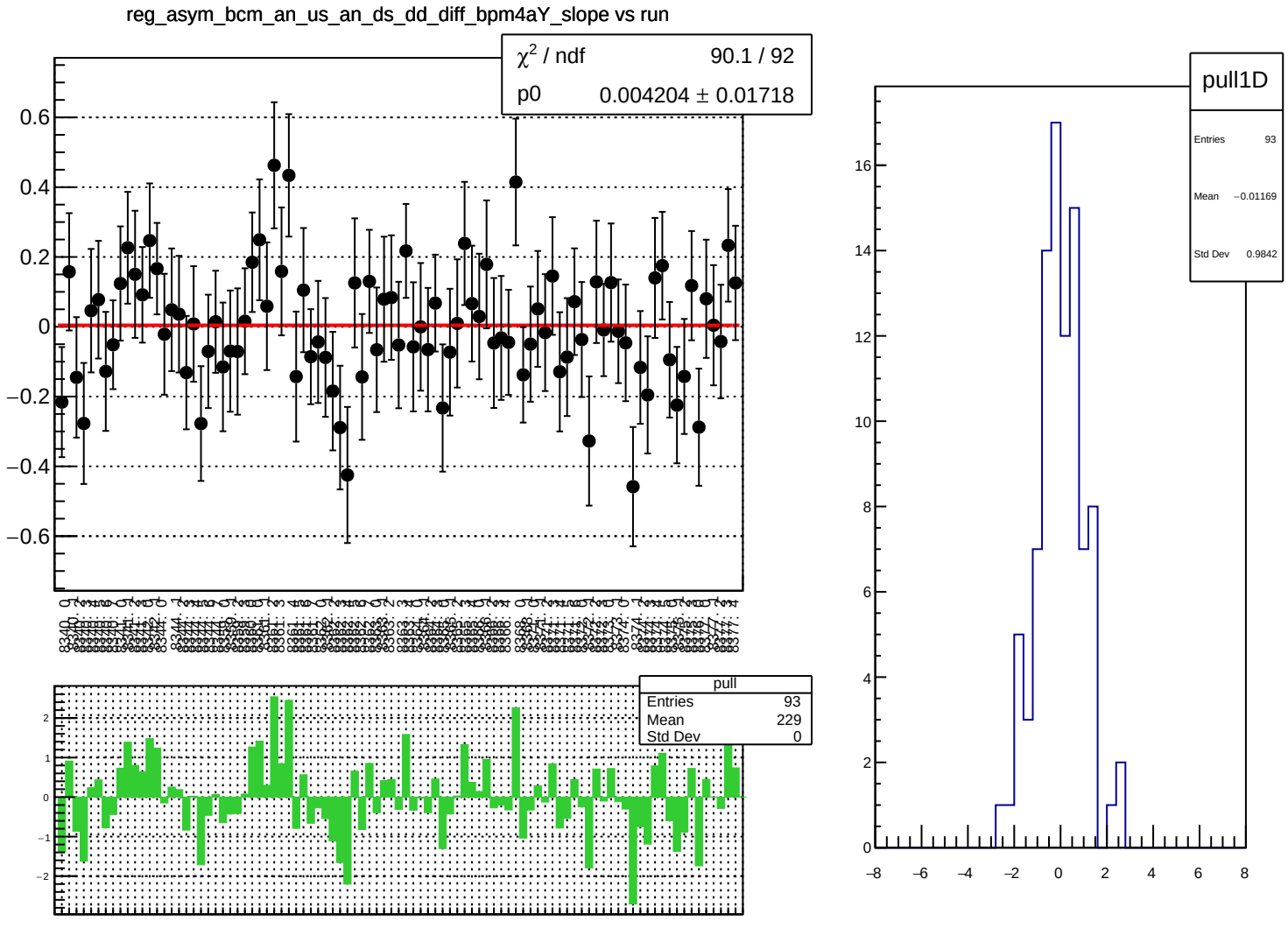

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 387.4 / 92
p0 −5.763 ± 0.2021
pull
Entries 93
Mean −32.45
Std Dev 0

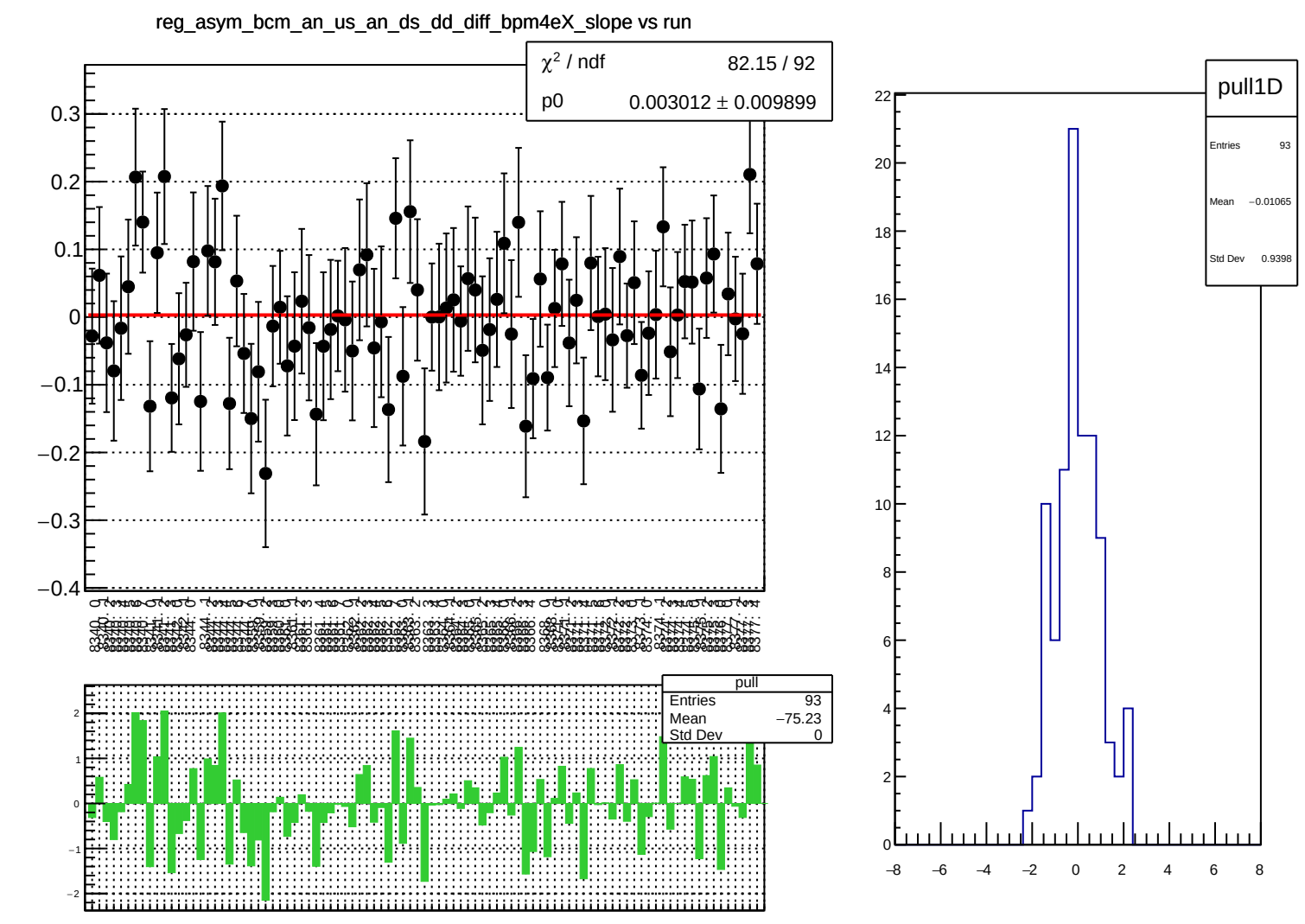

pull1D
Entries 93
Mean −0.3157
Std Dev 2.017

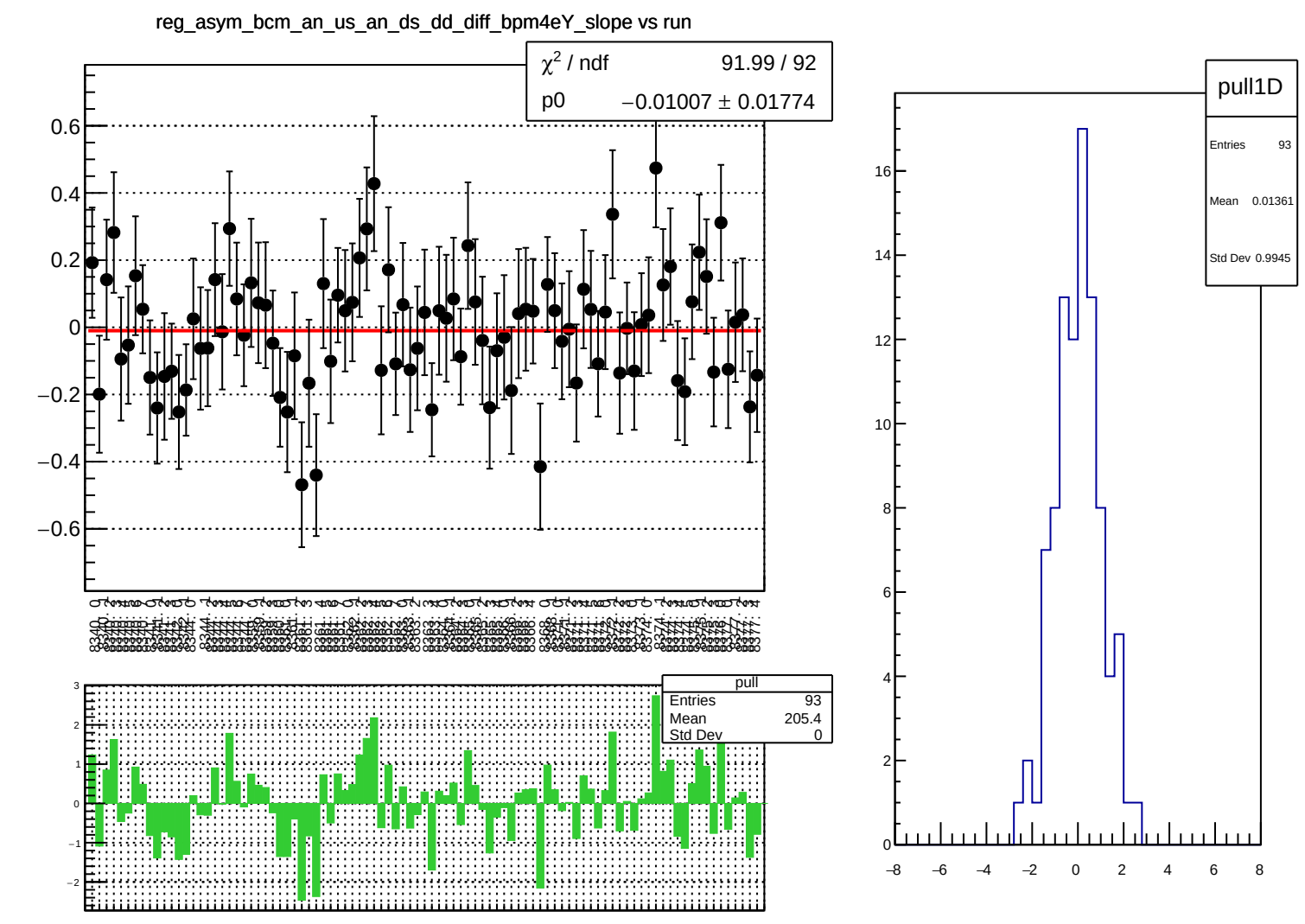

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 115.6 / 92
p0 −1.127 ± 0.3617
pull
Entries 93
Mean −9.144
Std Dev 0
pull1D
Entries 93
Mean 0.09156
Std Dev 1.111

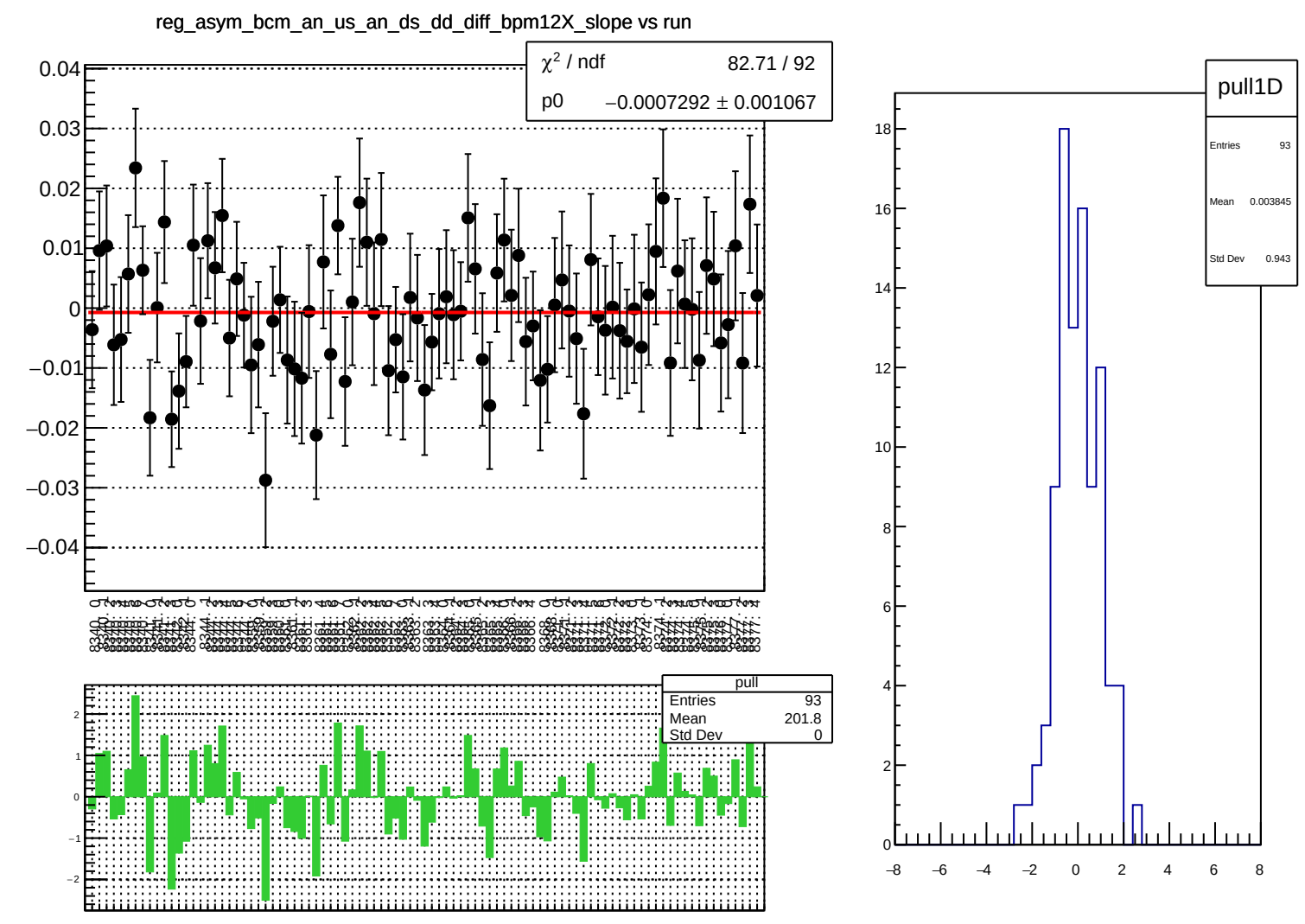

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 157.8 / 92
p0 −0.6944 ± 0.02165
pull
Entries 93
Mean −41.54
Std Dev 0
pull1D
Entries 93
Mean −0.1064
Std Dev 1.298

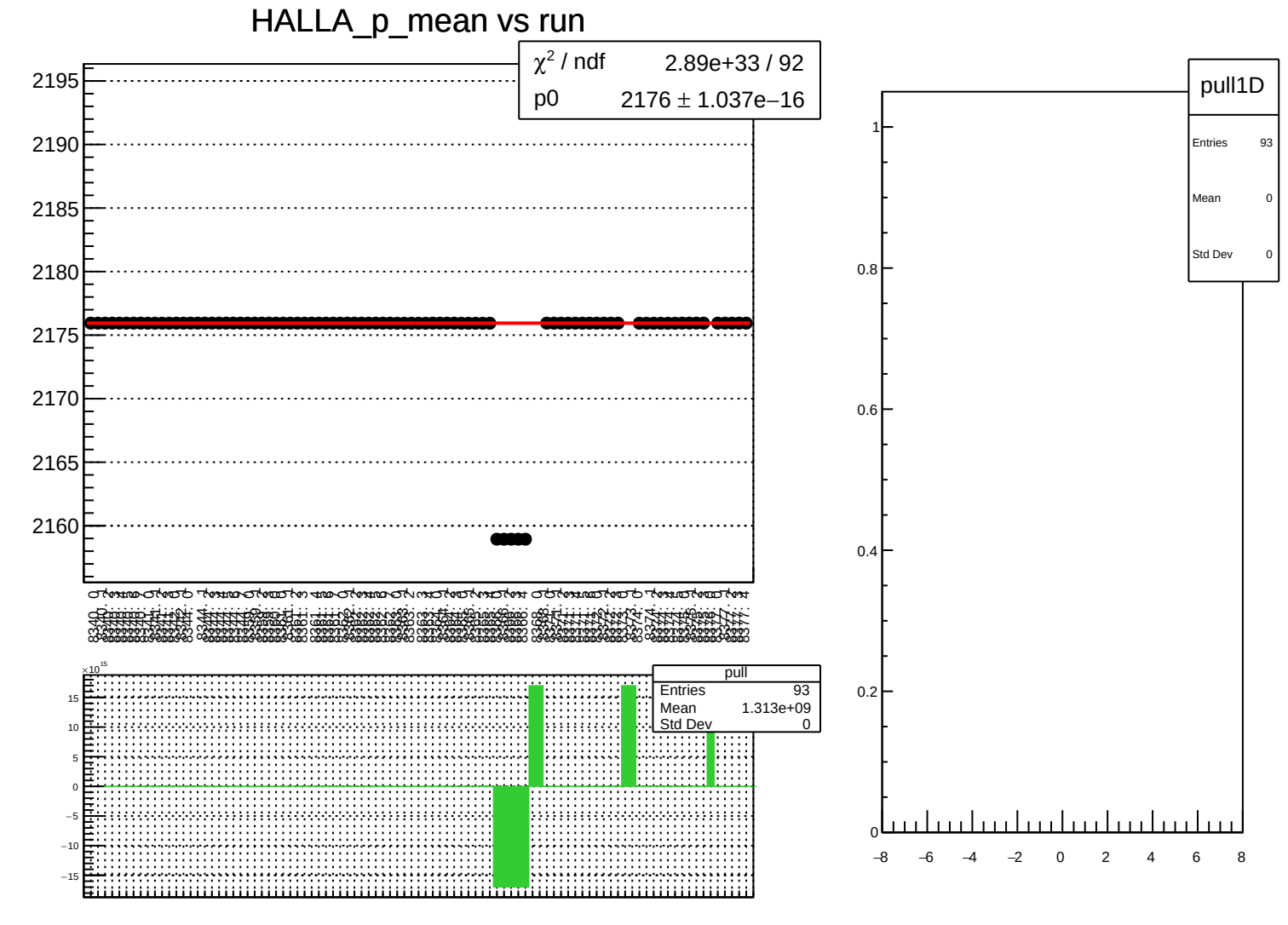

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 81.11 / 92
p0 −0.01886 ± 0.008607
pull
Entries 93
Mean −53
Std Dev 0
pull1D
Entries 93
Mean 0.01658
Std Dev 0.9338

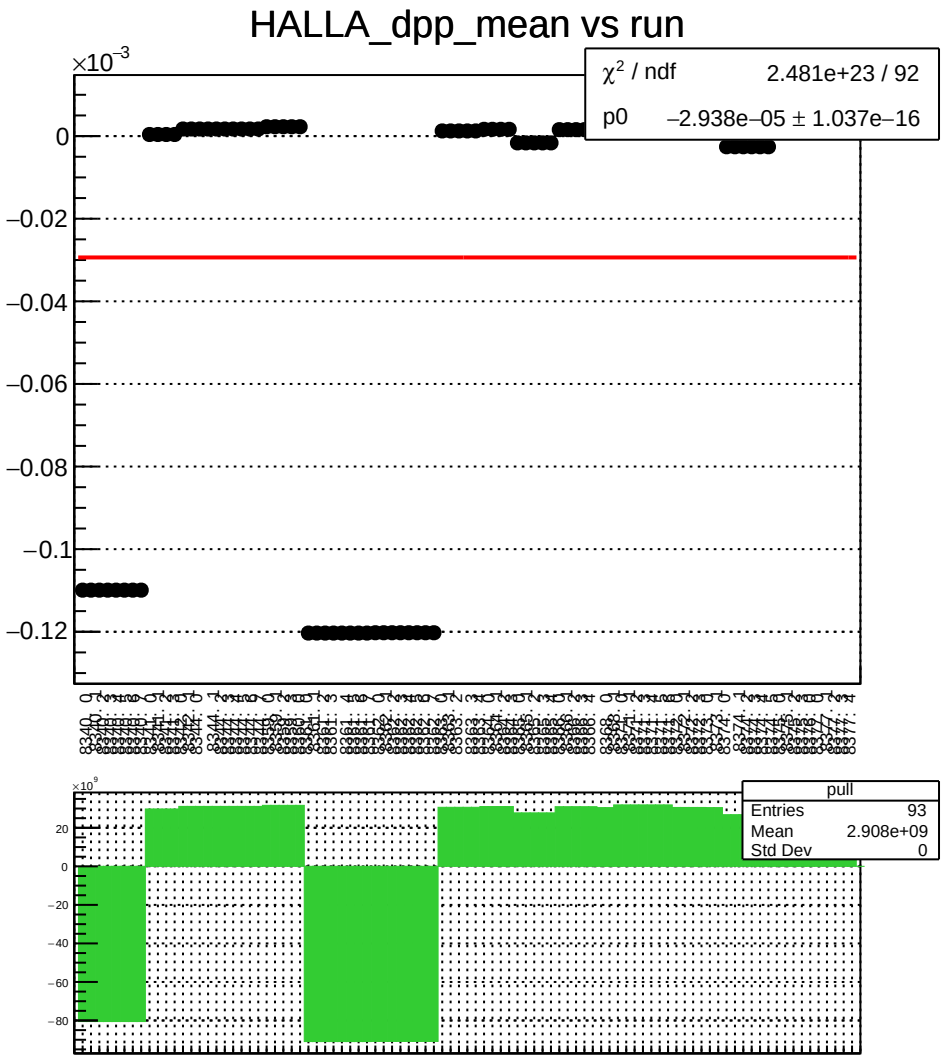

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.1 / 92
p0 0.004204 ± 0.01718
pull
Entries 93
Mean 229
Std Dev 0
pull1D
Entries 93
Mean −0.01169
Std Dev 0.9842

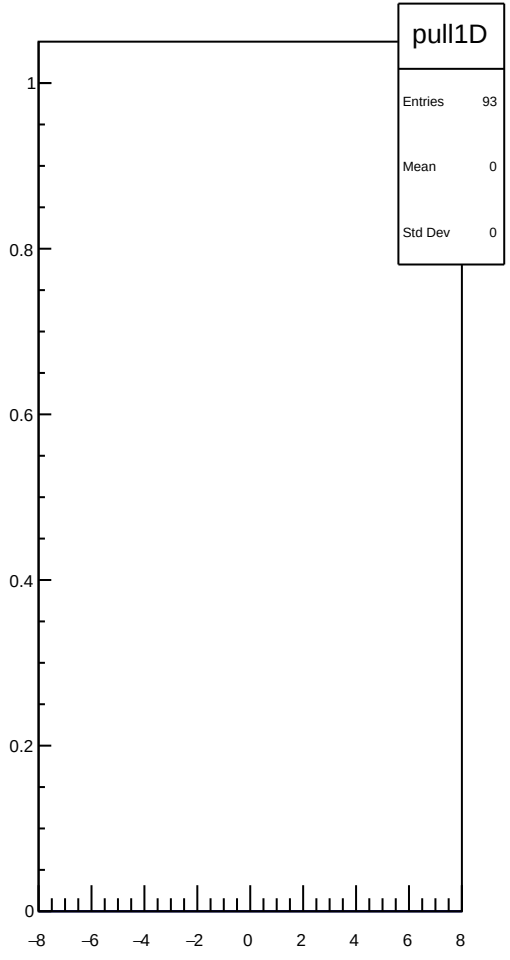

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.15 / 92
p0 0.003012 ± 0.009899
pull
Entries 93
Mean −75.23
Std Dev 0
pull1D
Entries 93
Mean −0.01065
Std Dev 0.9398

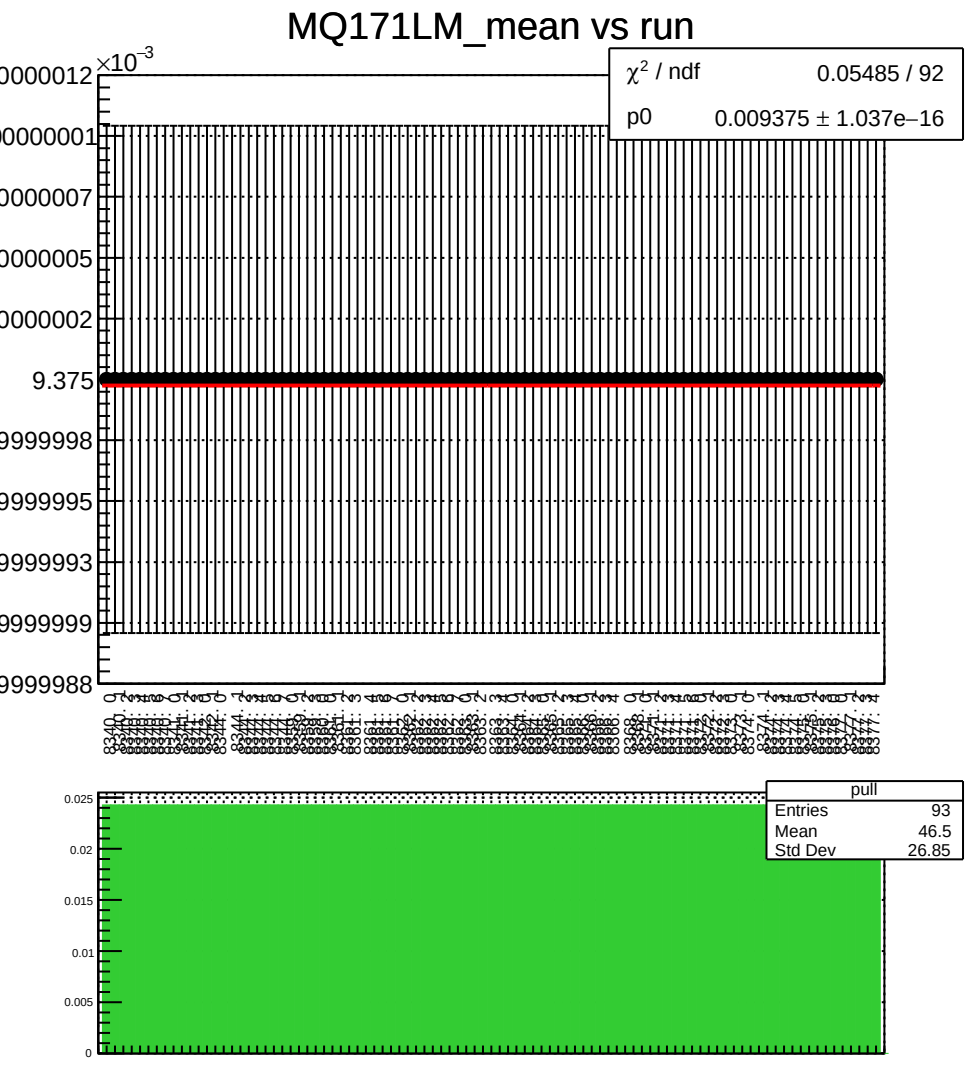

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.99 / 92
p0 −0.01007 ± 0.01774
pull
Entries 93
Mean 205.4
Std Dev 0
pull1D
Entries 93
Mean 0.01361
Std Dev 0.9945

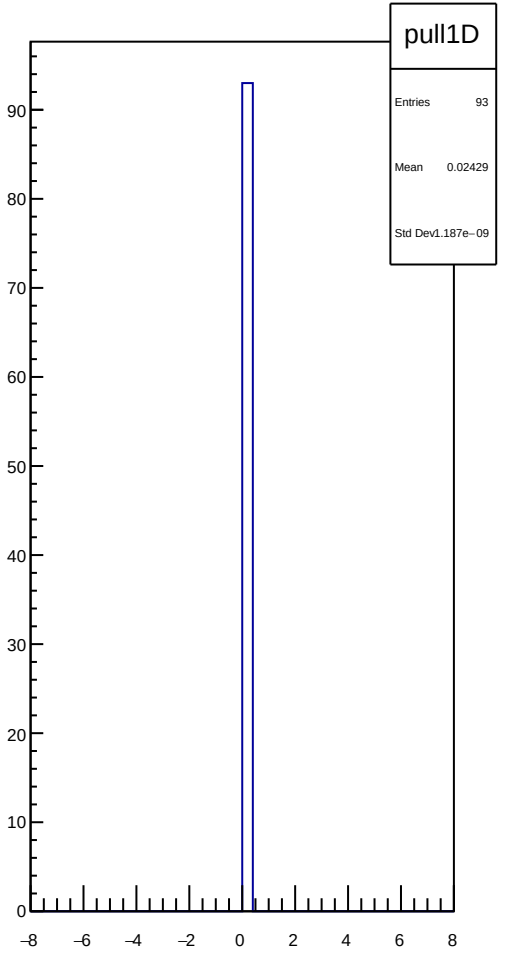

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 82.71 / 92
p0 −0.0007292 ± 0.001067
pull
Entries 93
Mean 201.8
Std Dev 0
pull1D
Entries 93
Mean 0.003845
Std Dev 0.943

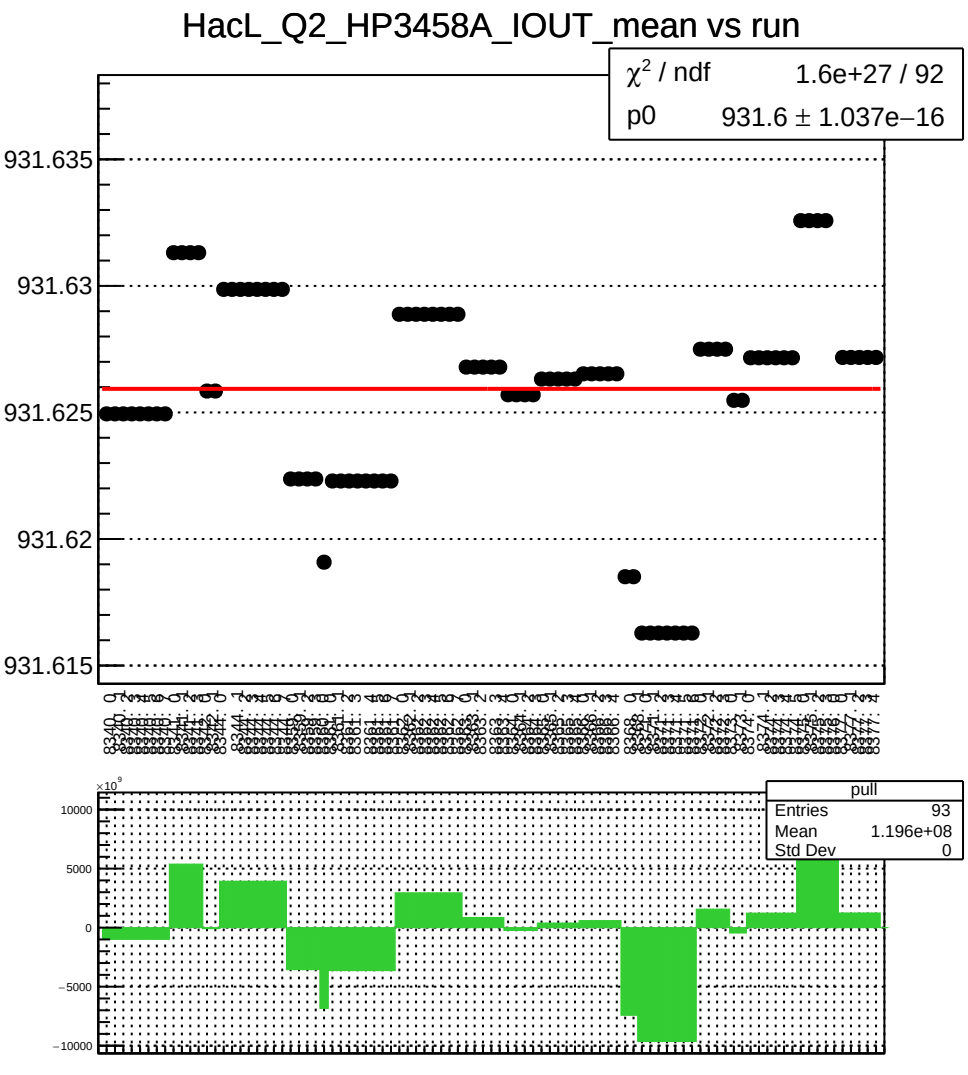

HALLA_p_mean vs run
χ² / ndf 2.89e+33 / 92
p0 2176 ± 1.037e−16
2195
2190
2185
2180
2175
2170
2165
2160
pull
Entries 93
Mean 1.313e+09
Std Dev 0
×10¹⁵
15
10
5
0
−5
−10
−15
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

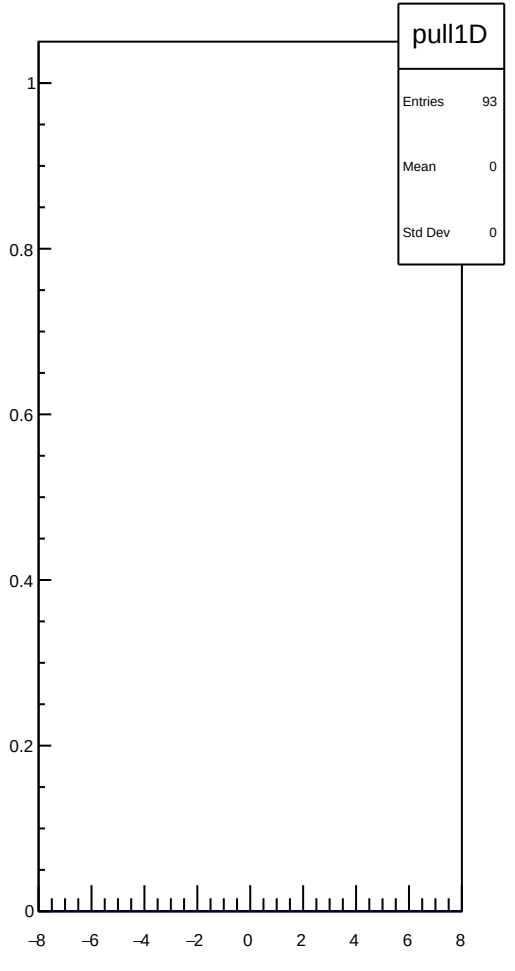

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.481e+23 / 92
p0 −2.938e−05 ± 1.037e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 93
Mean 2.908e+09
Std Dev 0
20
0
−20
−40
−60
−80

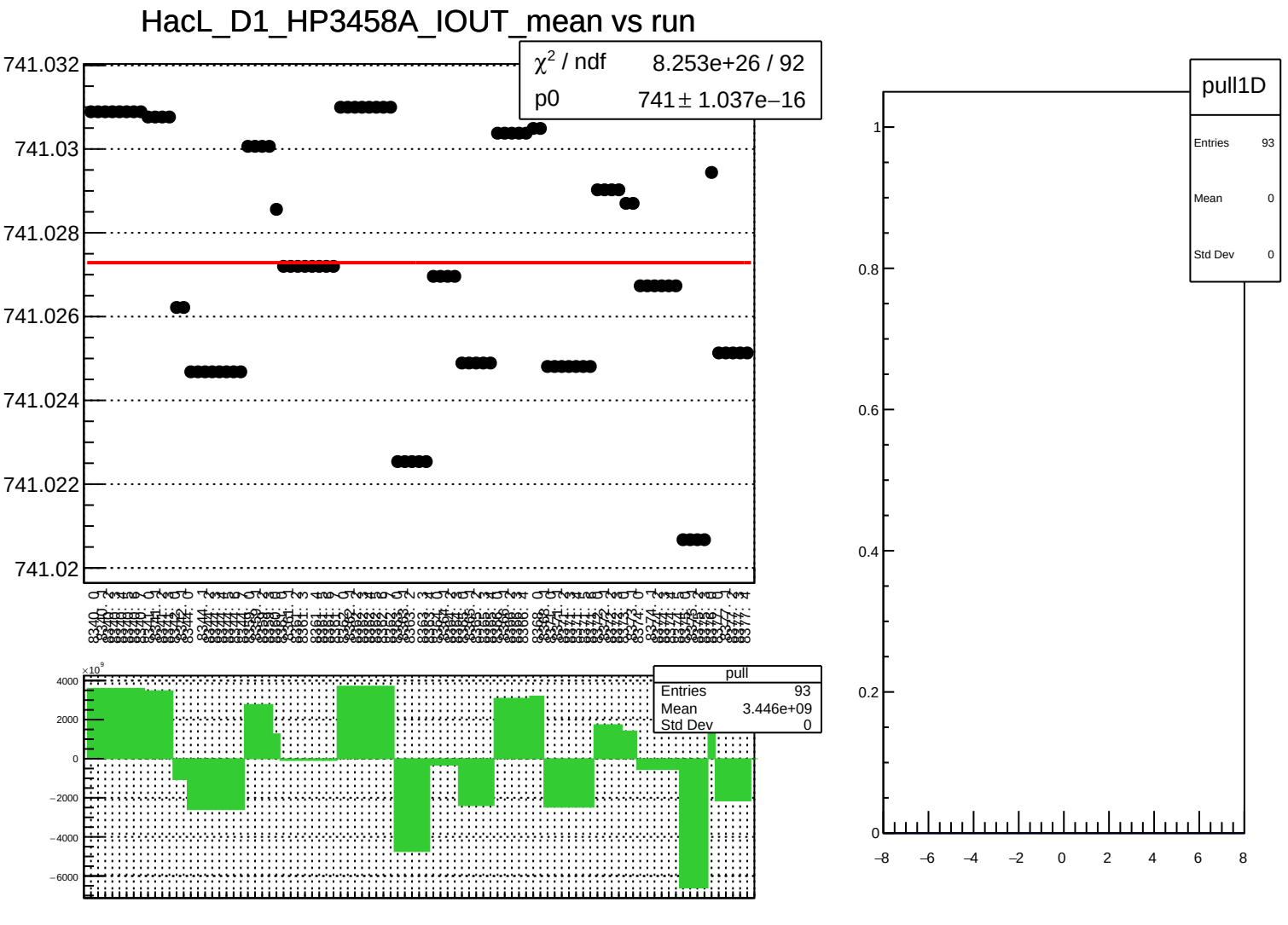

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

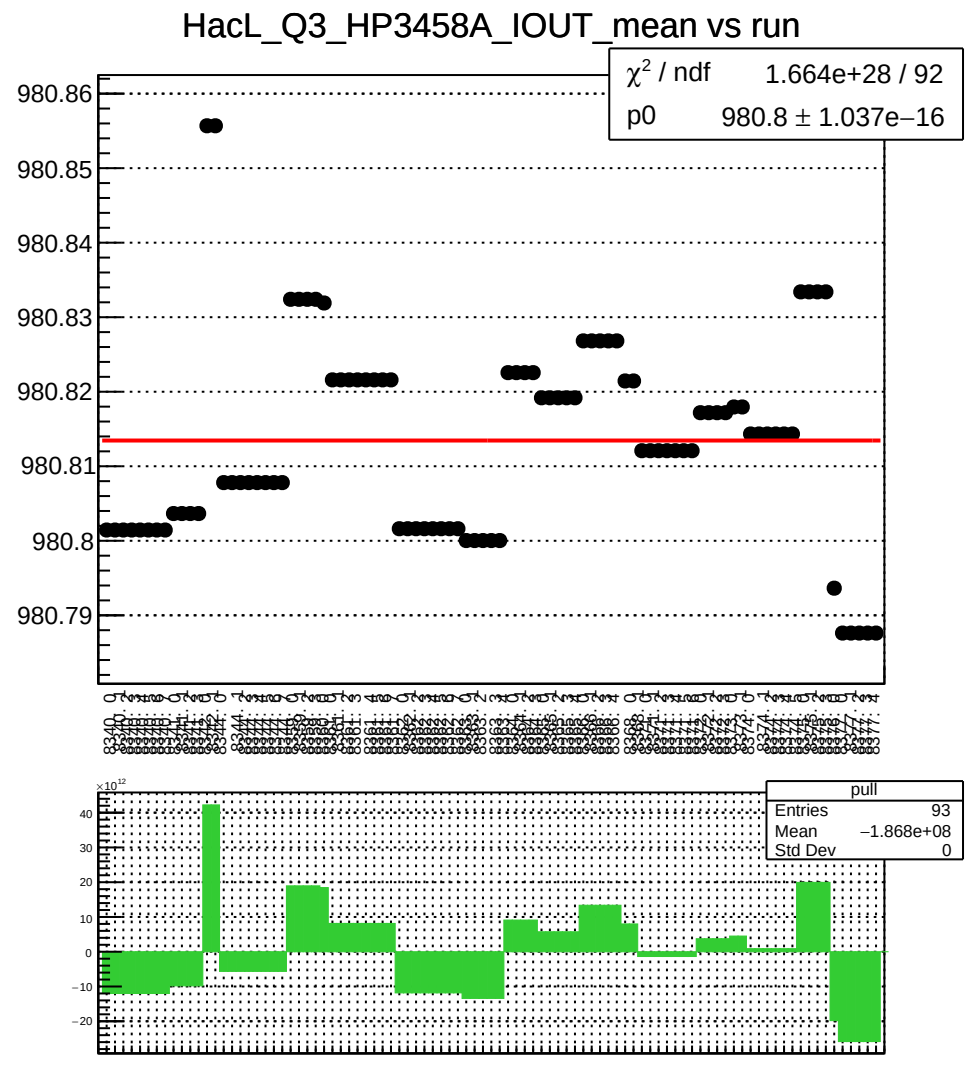

MQ171LM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

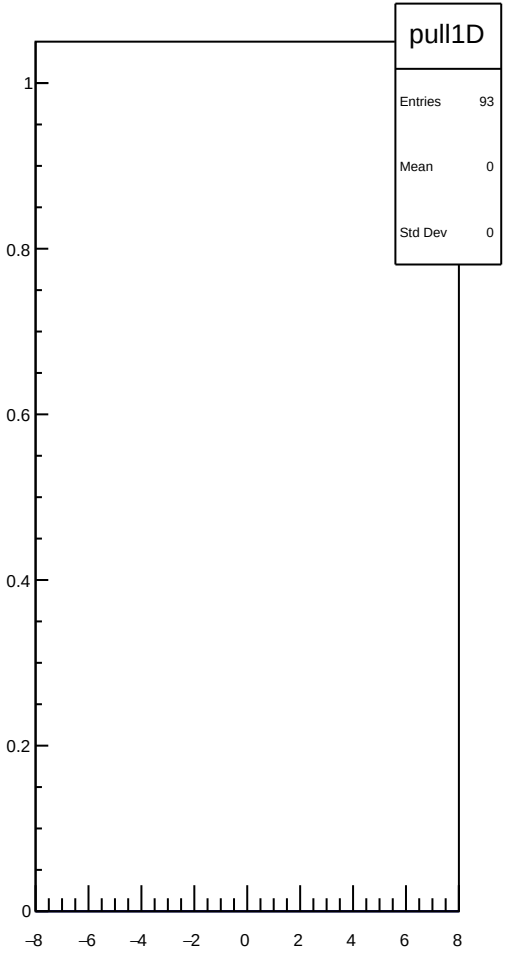

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

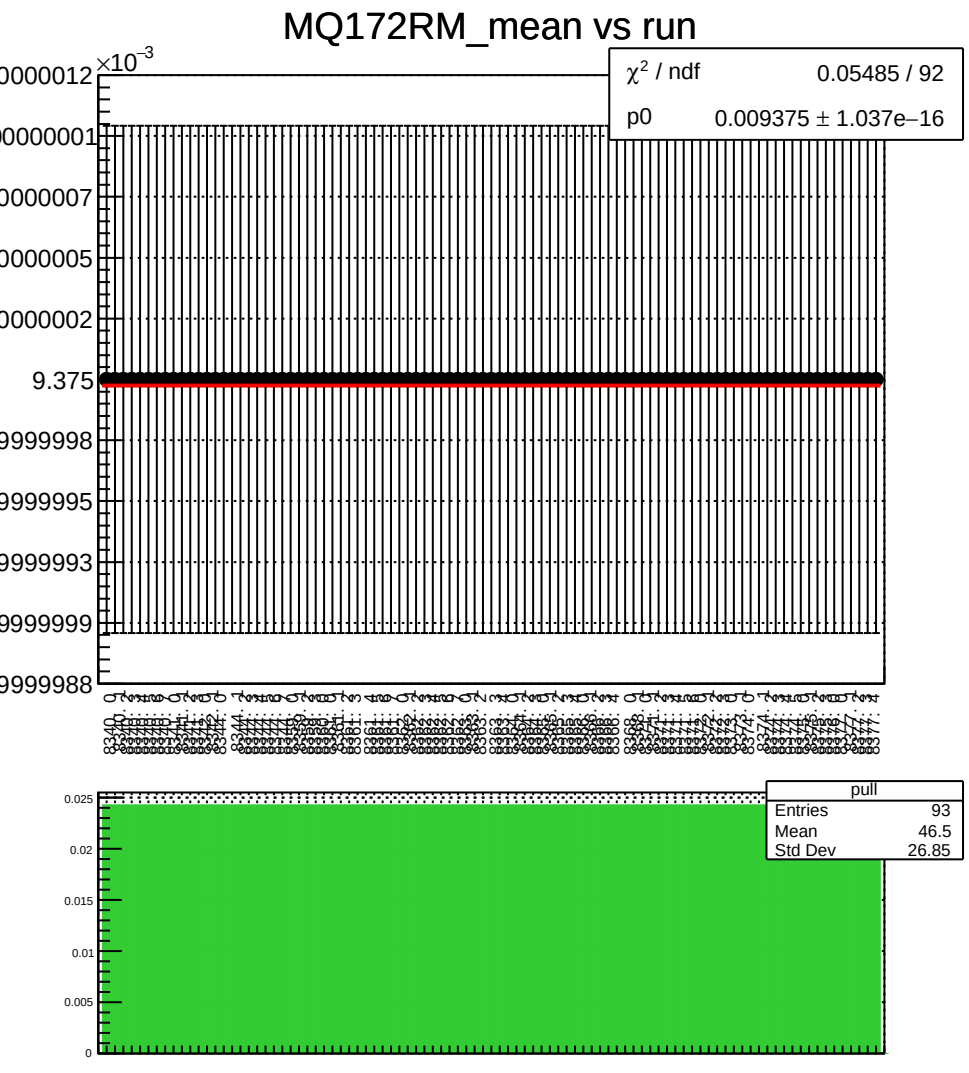

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.6e+27 / 92
p0 931.6 ± 1.037e−16
931.635
931.63
931.625
931.62
931.615
×10⁹
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1.196e+08
Std Dev 0

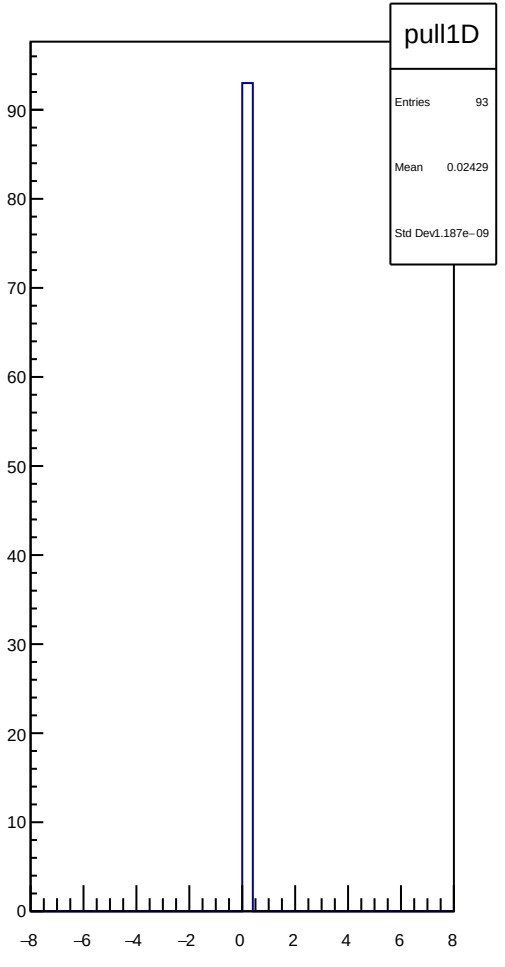

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

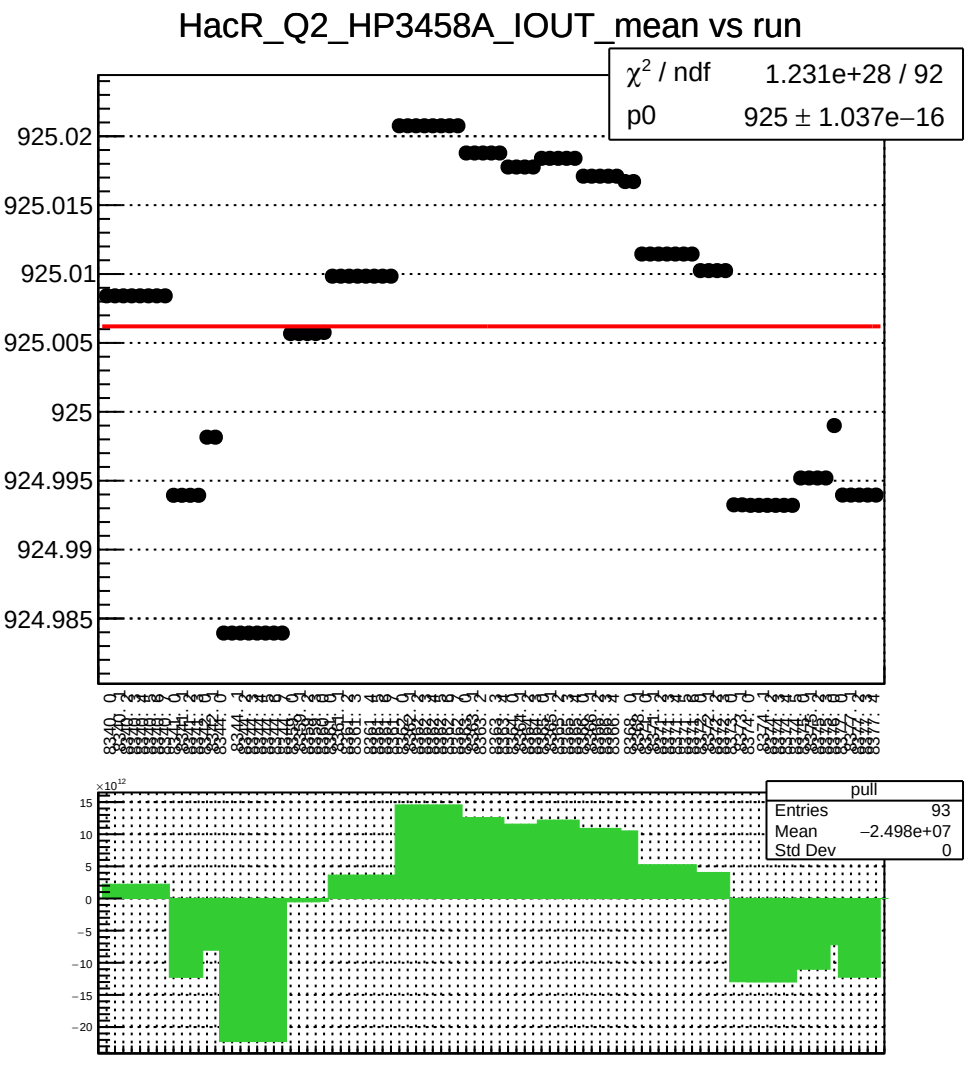

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 8.253e+26 / 92
p0 741 ± 1.037e−16
741.032
741.03
741.028
741.026
741.024
741.022
741.02
×10⁹
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 3.446e+09
Std Dev 0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

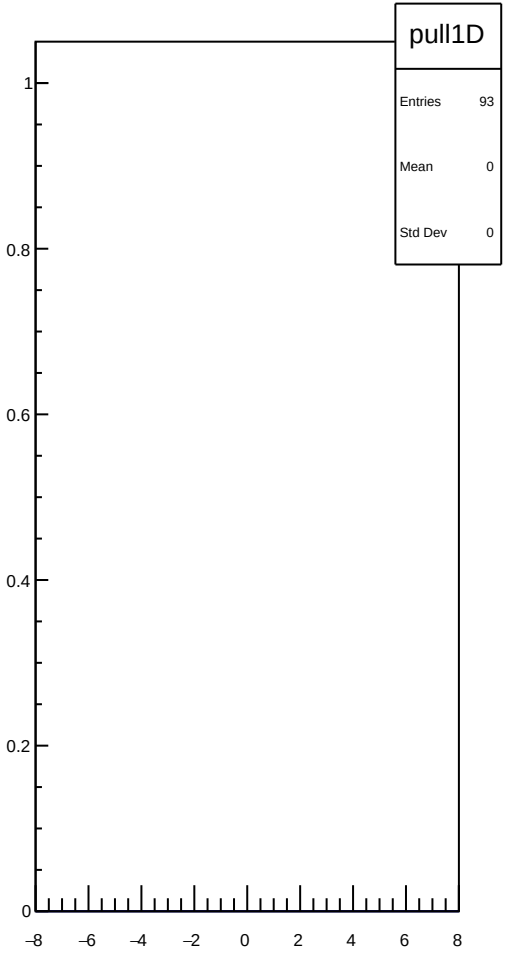

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.664e+28 / 92
p0 980.8 ± 1.037e−16
980.86
980.85
980.84
980.83
980.82
980.81
980.8
980.79
×10¹²
40
30
20
10
0
−10
−20
pull
Entries 93
Mean −1.868e+08
Std Dev 0

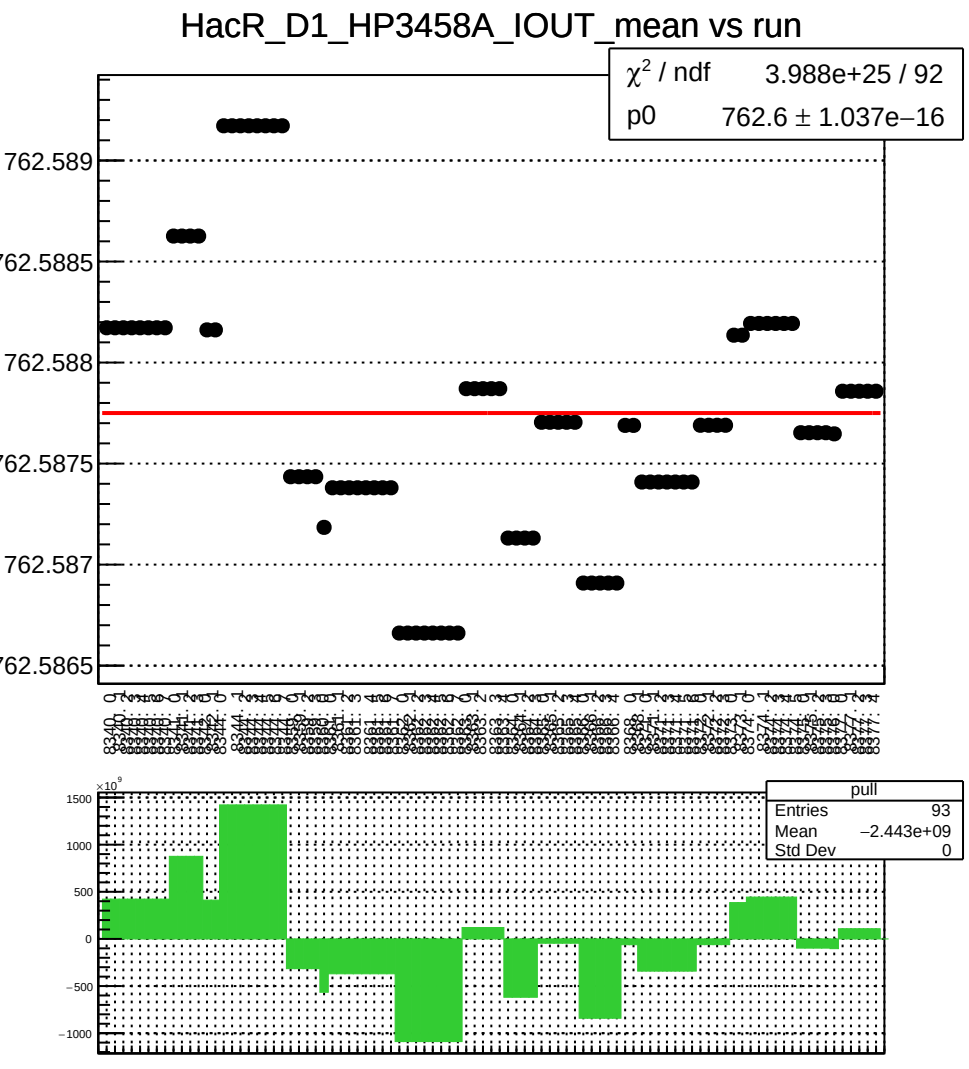

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

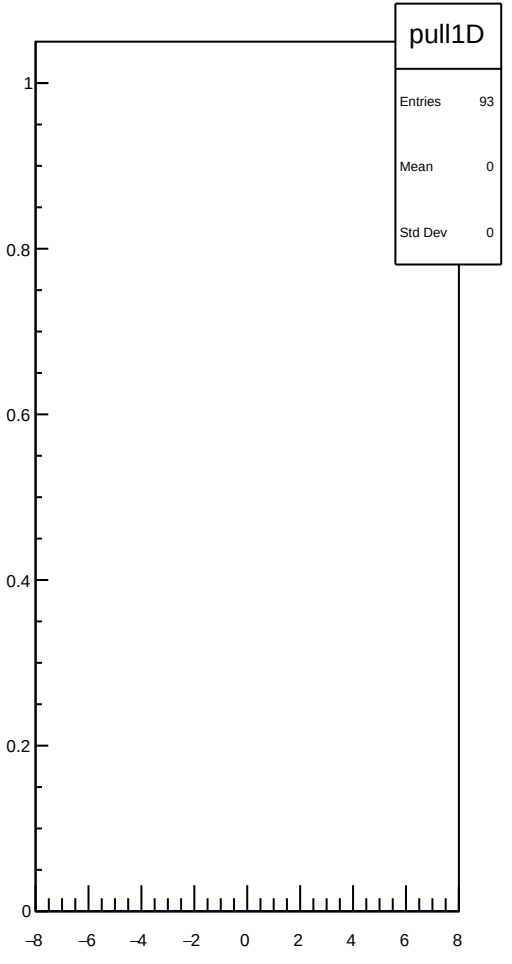

MQ172RM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

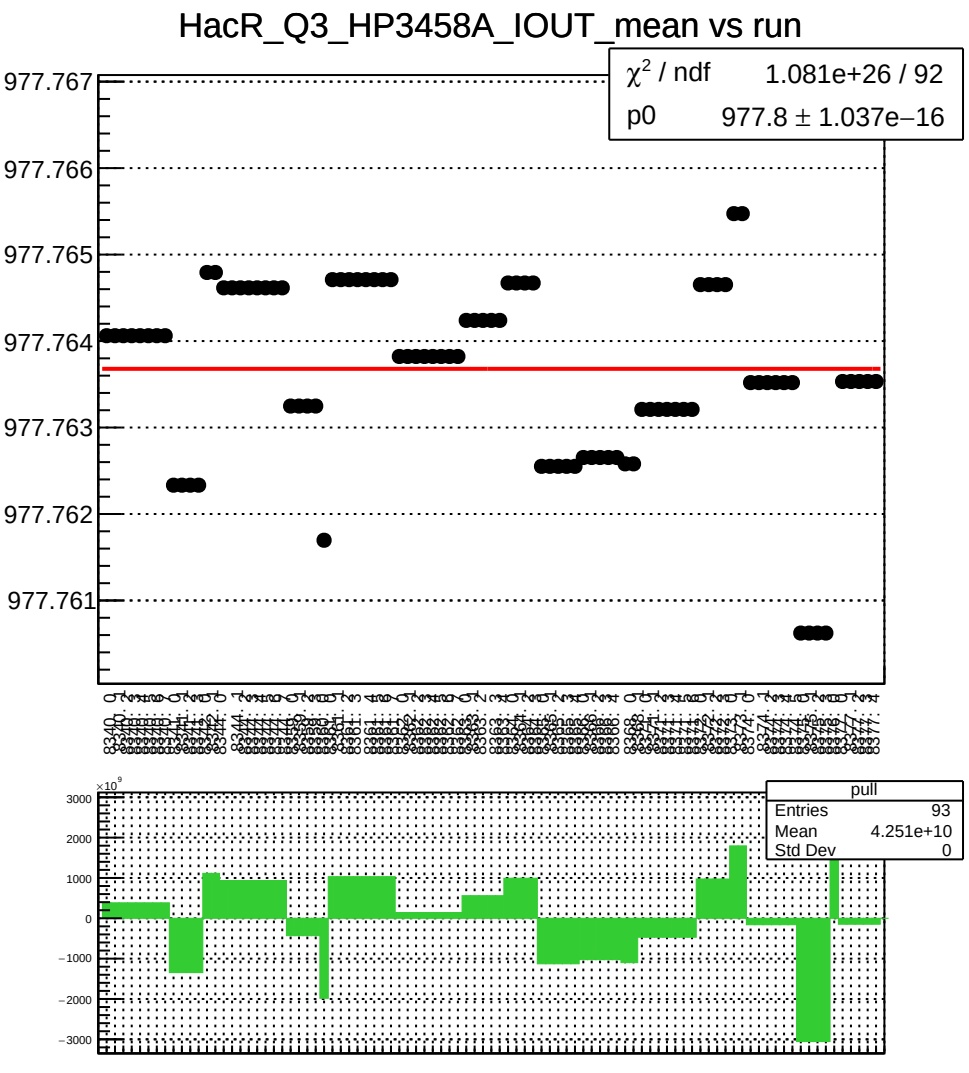

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

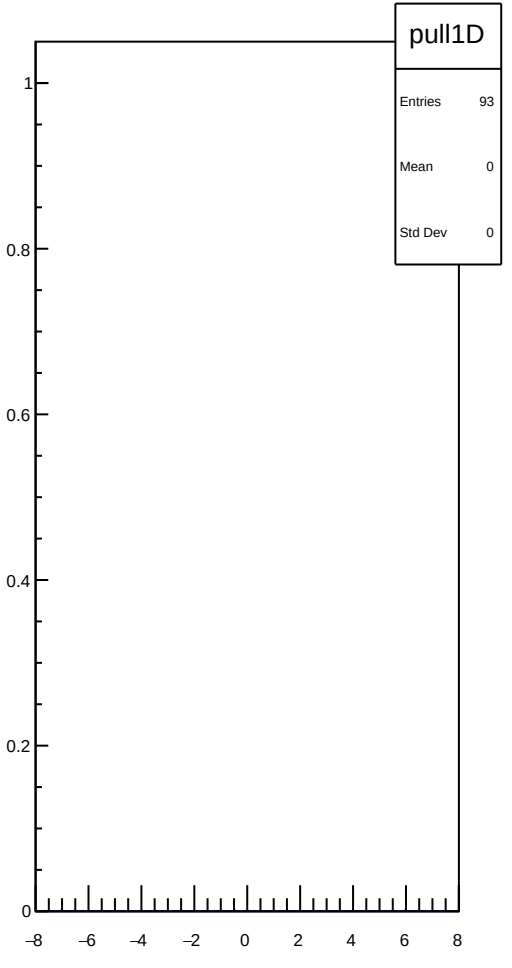

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.231e+28 / 92
p0 925 ± 1.037e−16
925.02
925.015
925.01
925.005
925
924.995
924.99
924.985
×10¹²
15
10
5
0
−5
−10
−15
−20
pull
Entries 93
Mean −2.498e+07
Std Dev 0

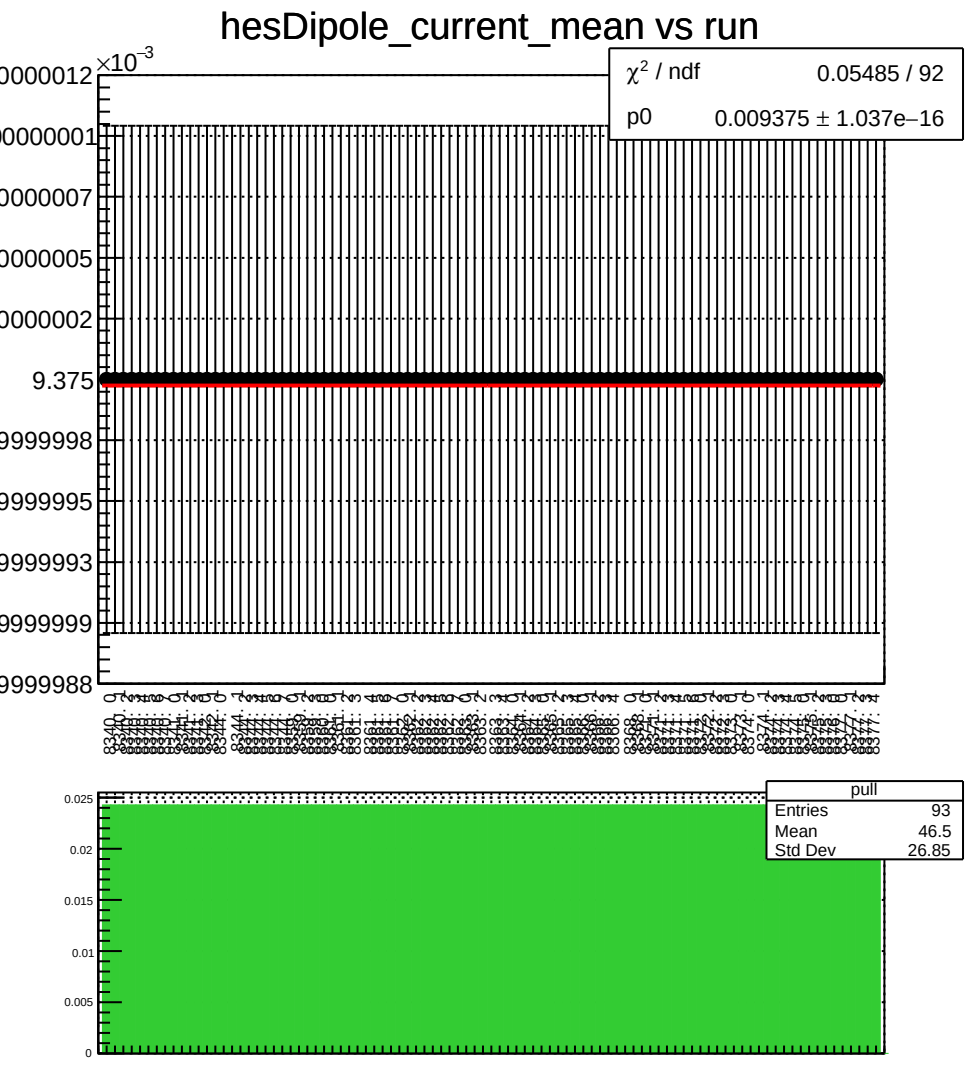

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

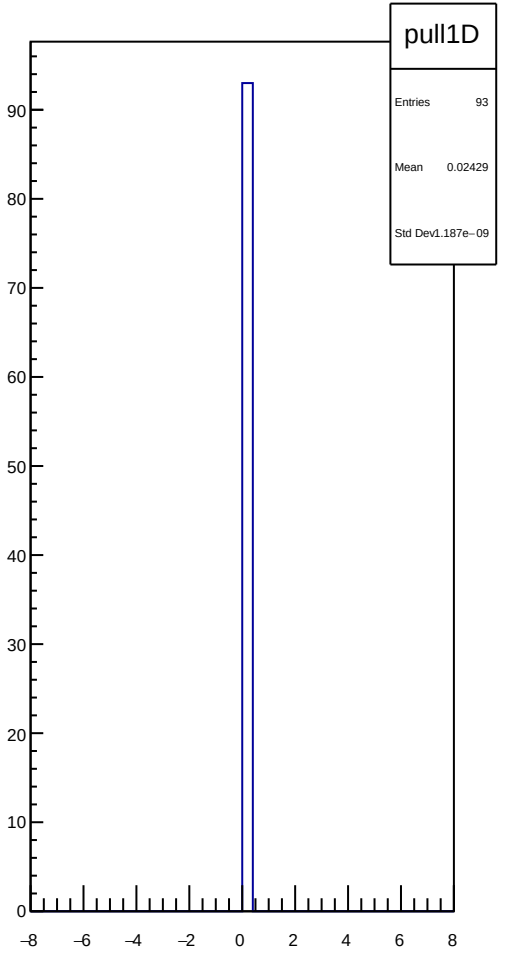

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.988e+25 / 92
p0 762.6 ± 1.037e−16
762.589
762.5885
762.588
762.5875
762.587
762.5865
pull
Entries 93
Mean −2.443e+09
Std Dev 0
×10⁹
1500
1000
500
0
−500
−1000

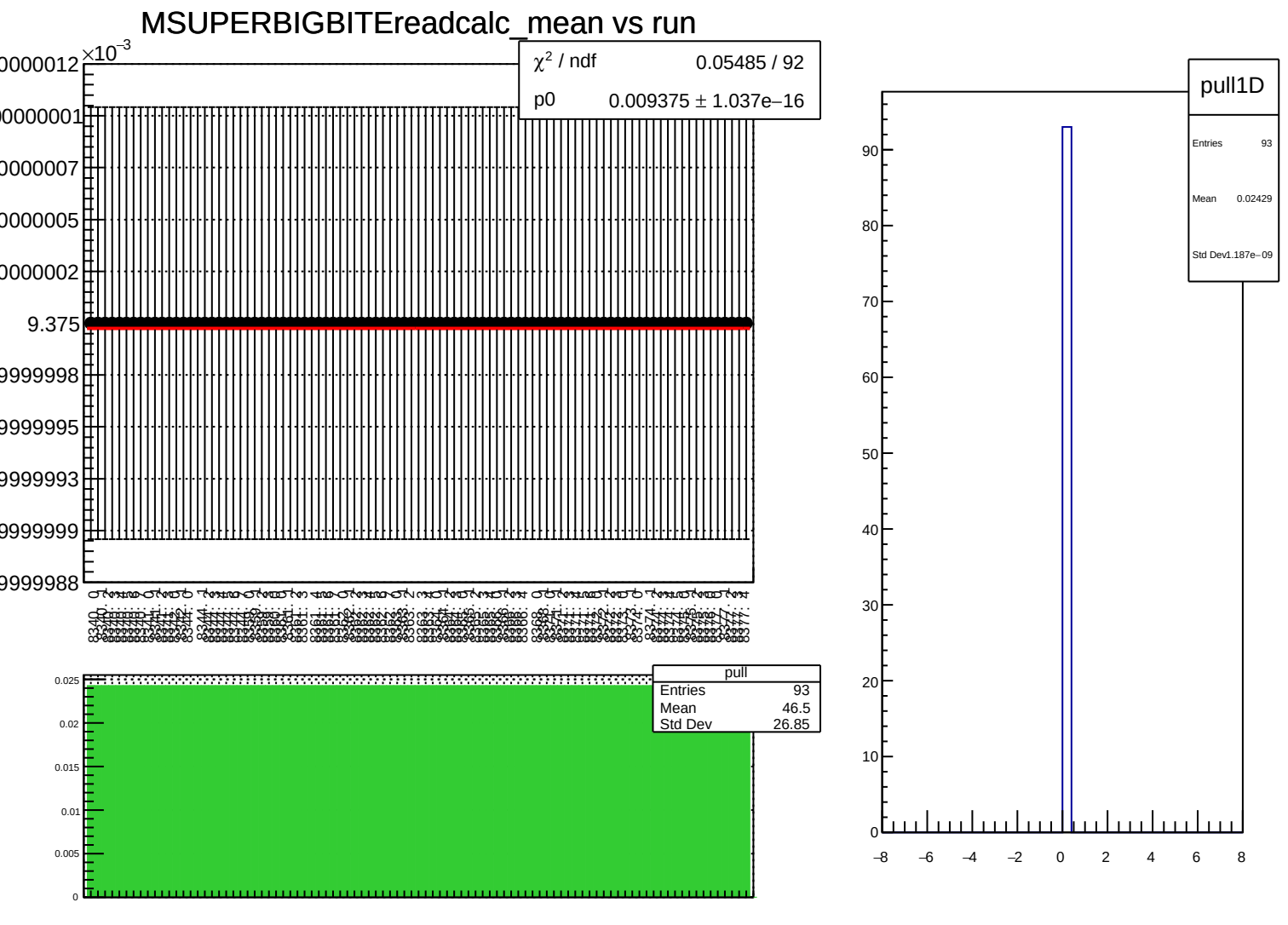

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

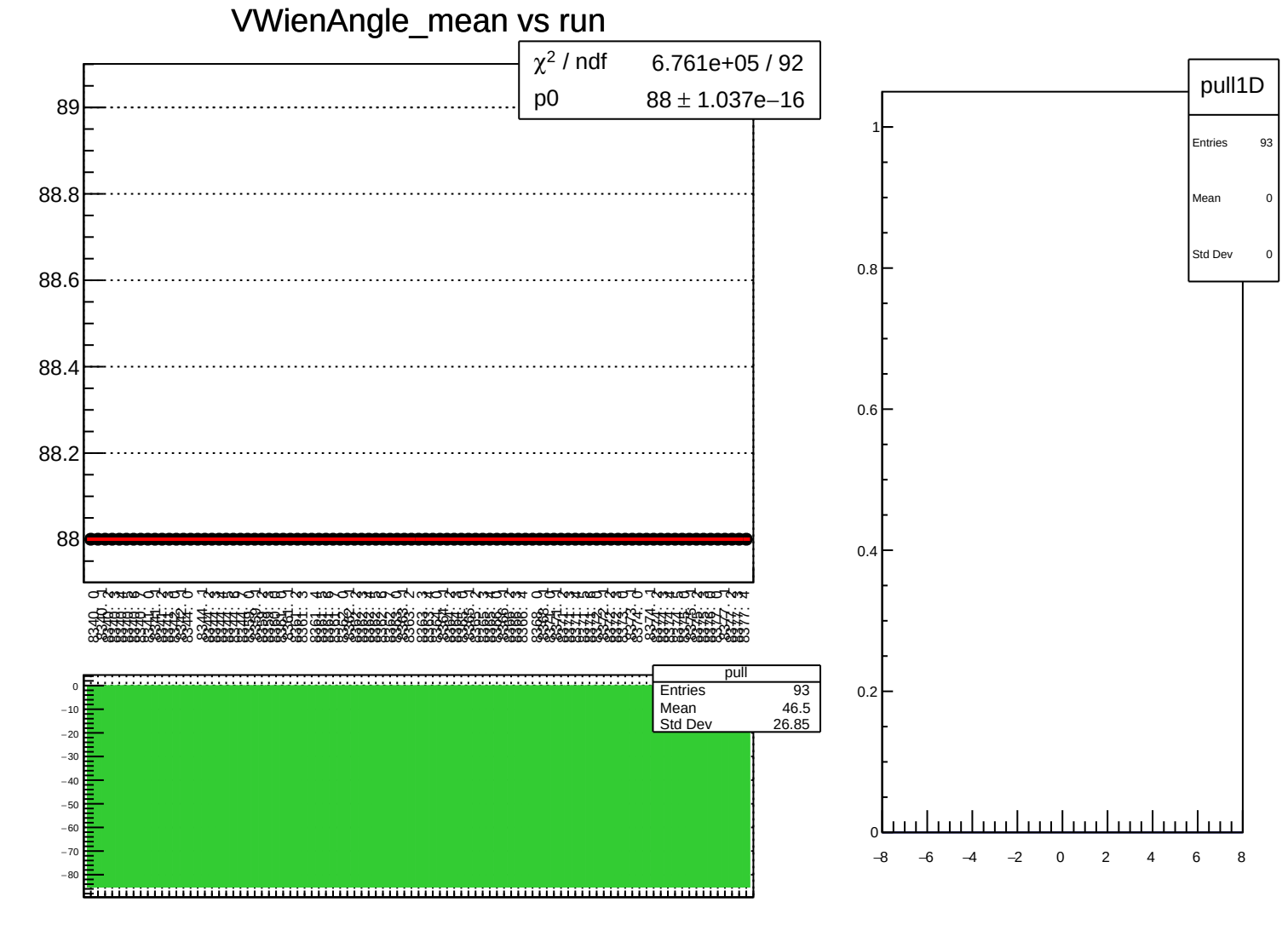

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.081e+26 / 92
p0 977.8 ± 1.037e−16
977.767
977.766
977.765
977.764
977.763
977.762
977.761
pull
Entries 93
Mean 4.251e+10
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

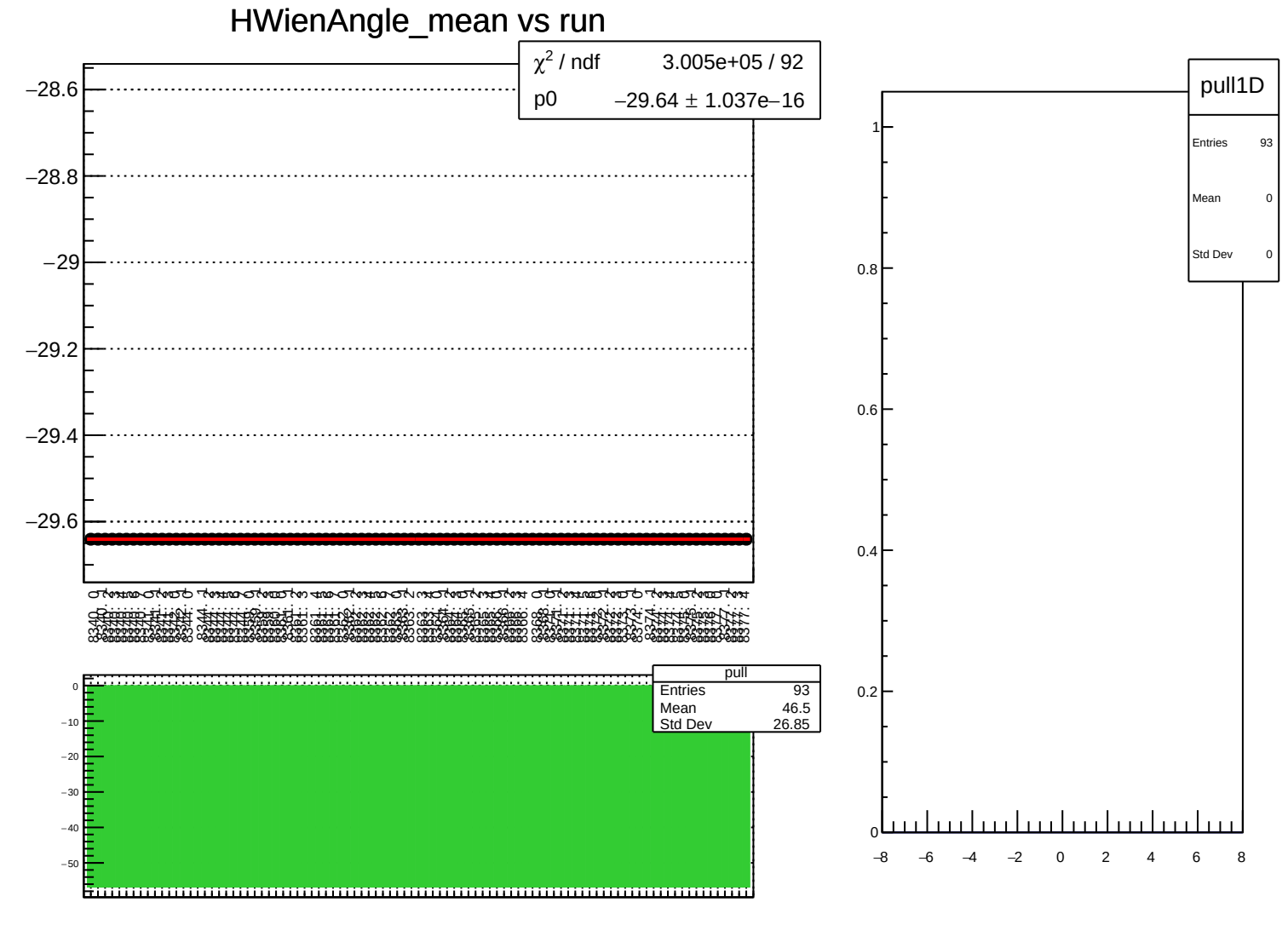

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

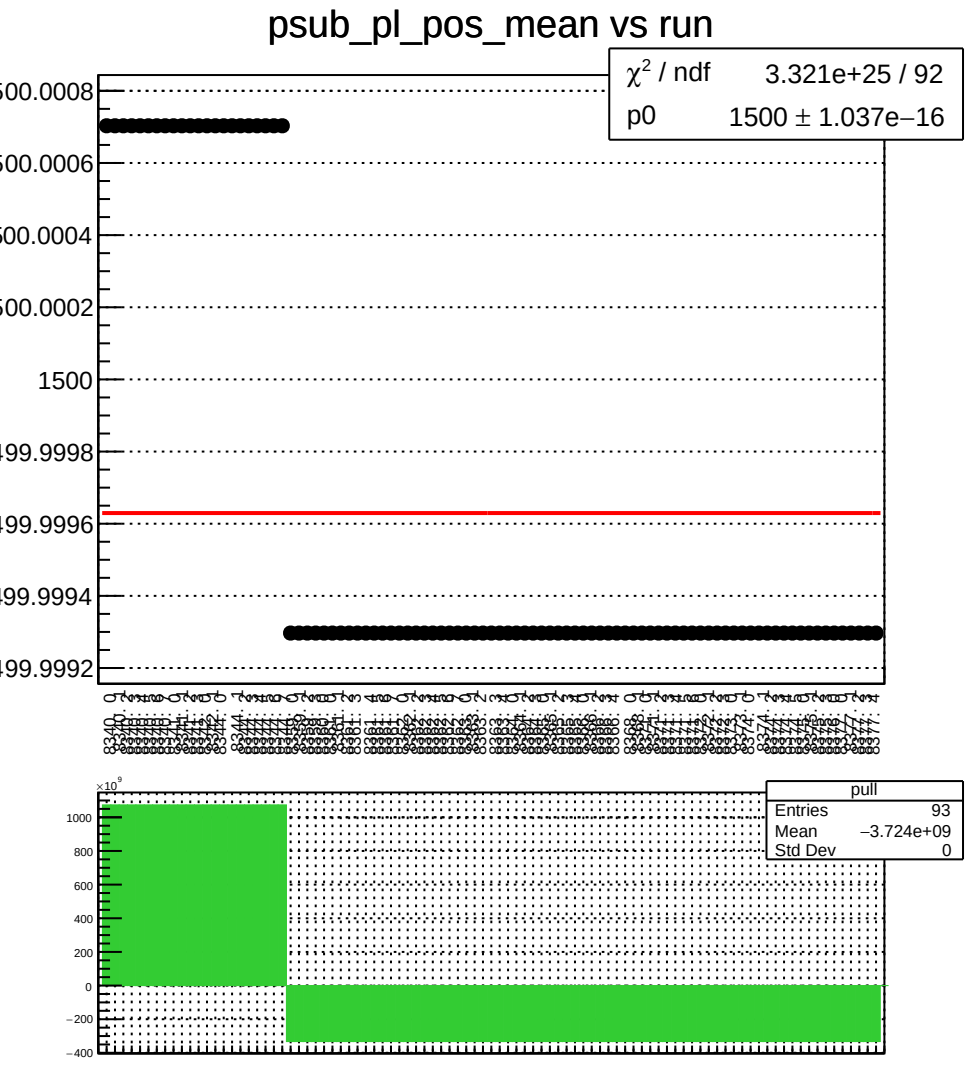

hesDipole_current_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

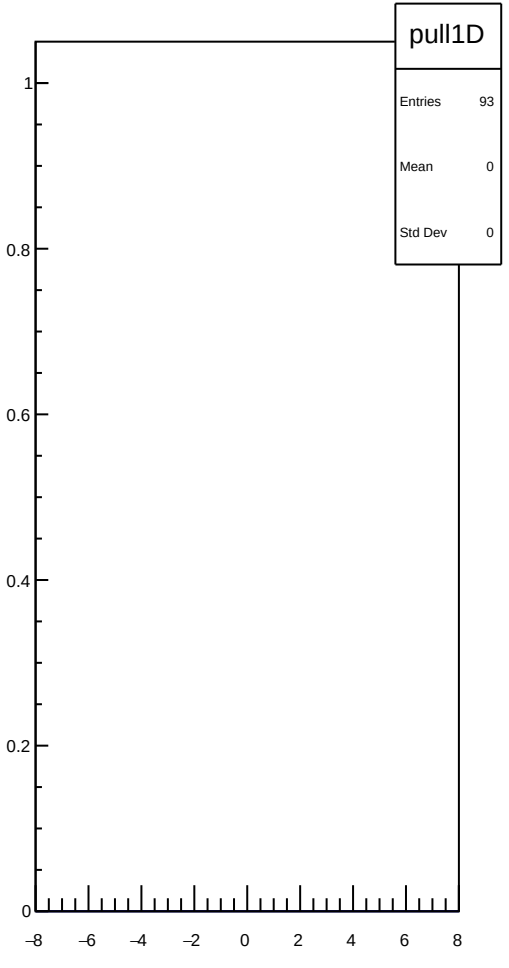

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

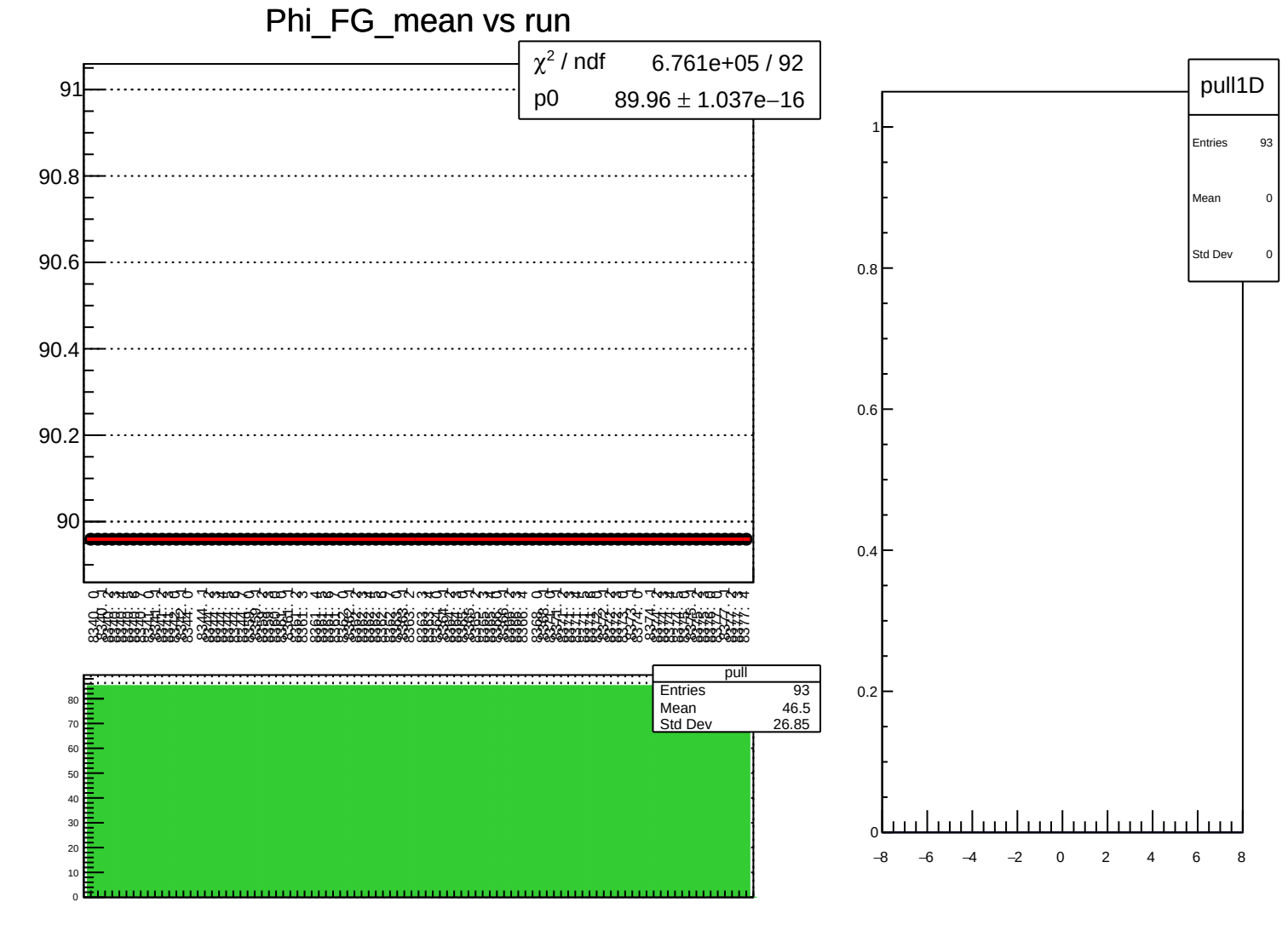

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85
pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

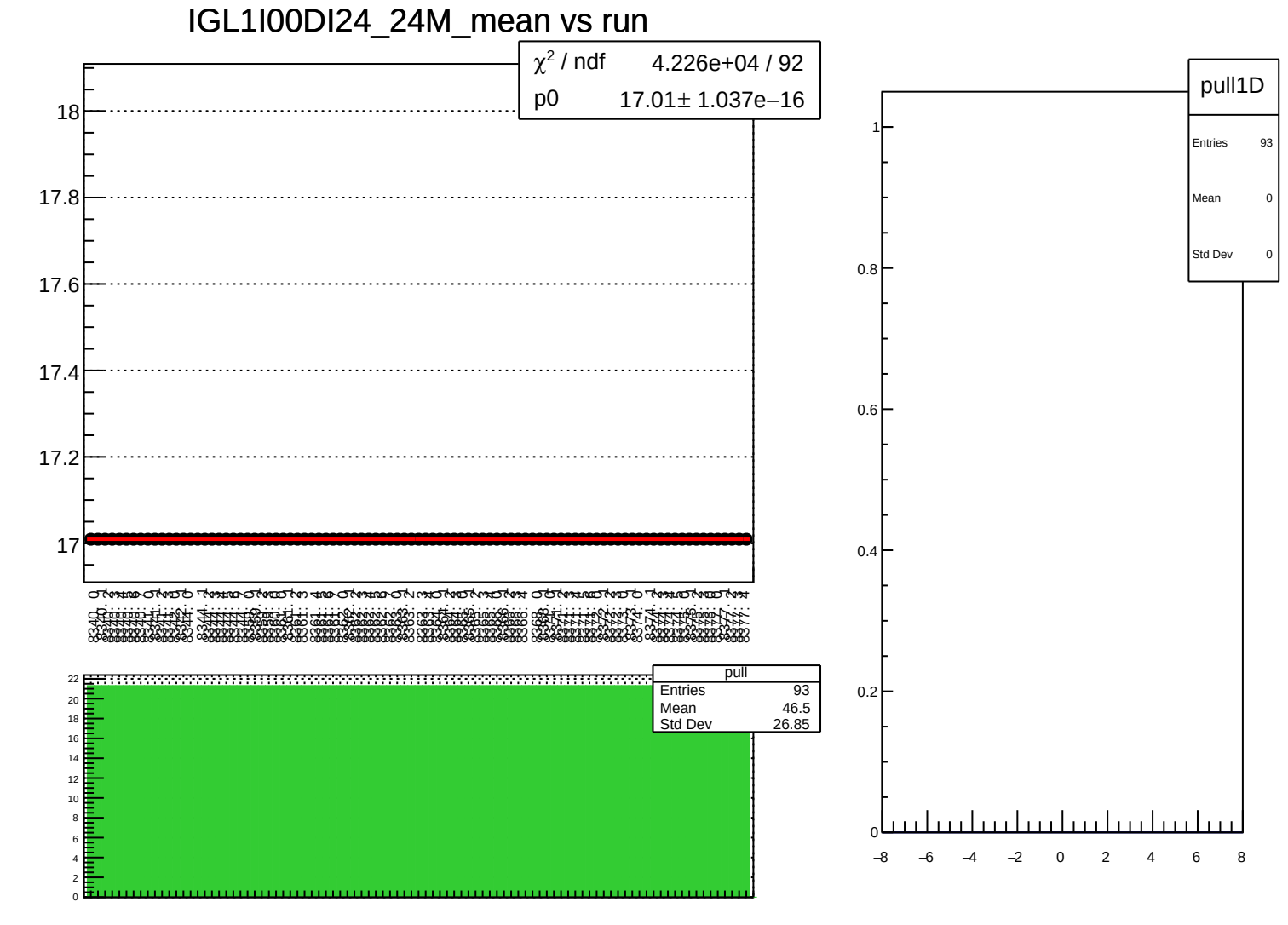

VWienAngle_mean vs run
χ² / ndf 6.761e+05 / 92
p0 88 ± 1.037e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

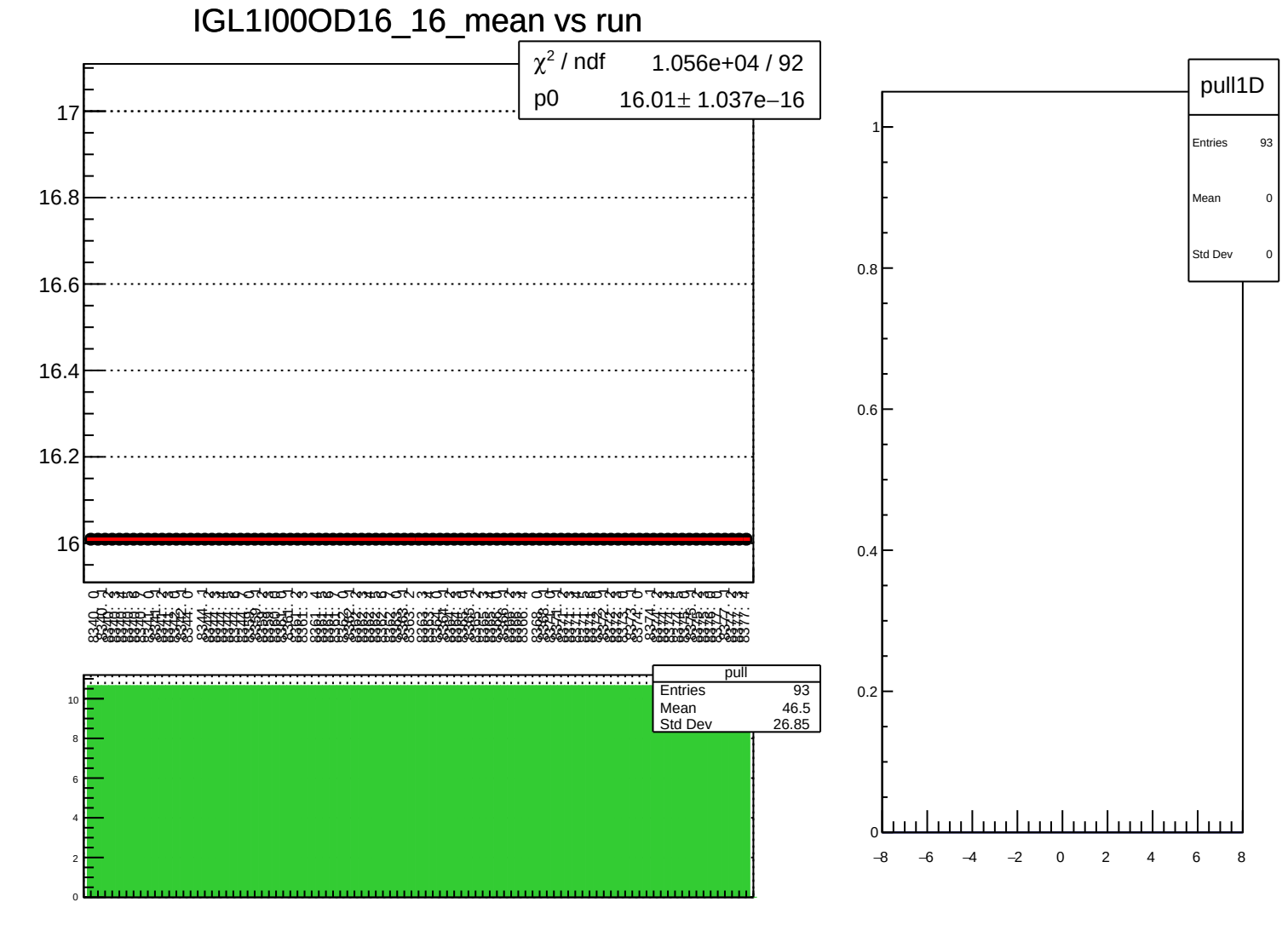

HWienAngle_mean vs run
χ² / ndf 3.005e+05 / 92
p0 −29.64 ± 1.037e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

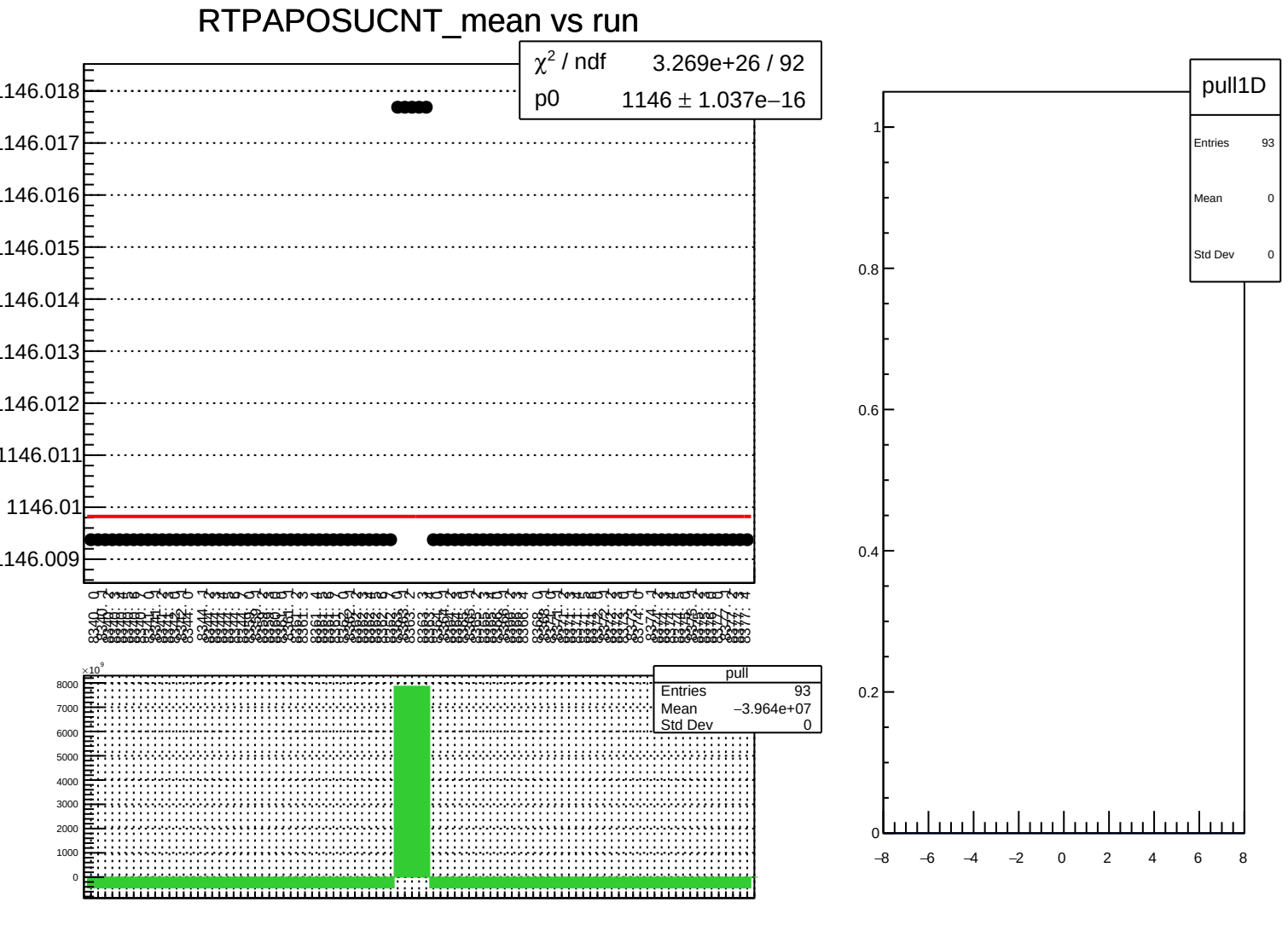

psub_pl_pos_mean vs run
χ² / ndf 3.321e+25 / 92
p0 1500 ± 1.037e−16
500.0008
500.0006
500.0004
500.0002
1500
499.9998
499.9996
499.9994
499.9992
pull
Entries 93
Mean −3.724e+09
Std Dev 0
×10⁹
1000
800
600
400
200
0
−200
−400

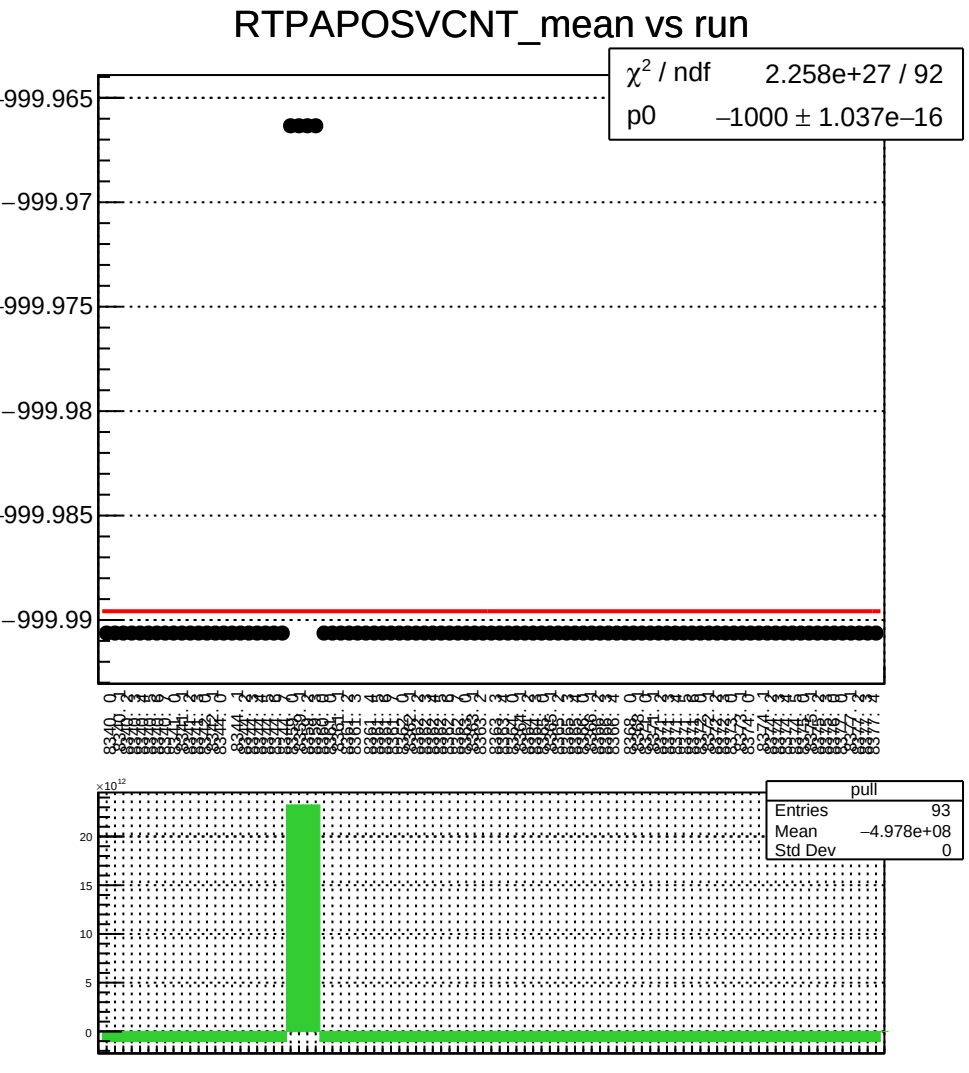

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

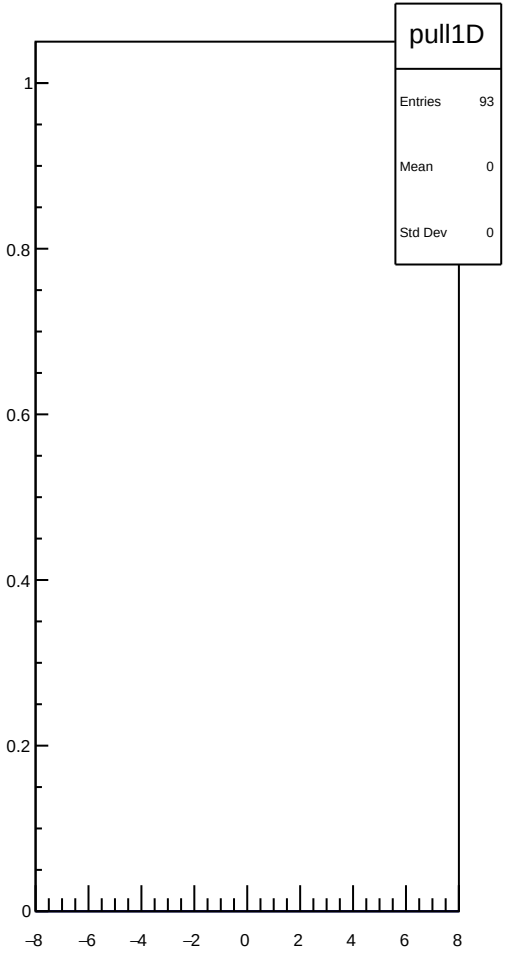

Phi_FG_mean vs run
χ² / ndf 6.761e+05 / 92
p0 89.96 ± 1.037e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 93
Mean 46.5
Std Dev 26.85
80
70
60
50
40
30
20
10
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

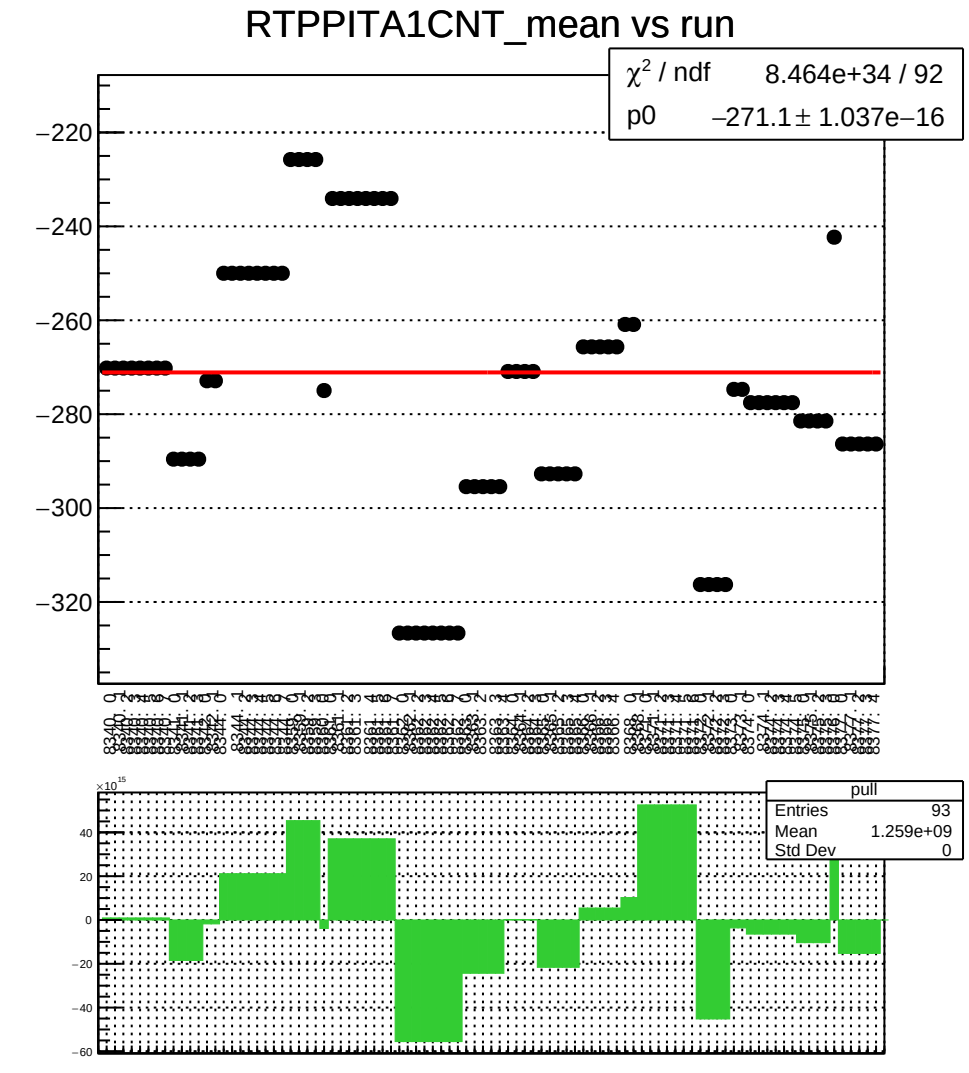

IGL1I00DI24_24M_mean vs run
χ² / ndf 4.226e+04 / 92
p0 17.01± 1.037e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 93
Mean 46.5
Std Dev 26.85
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

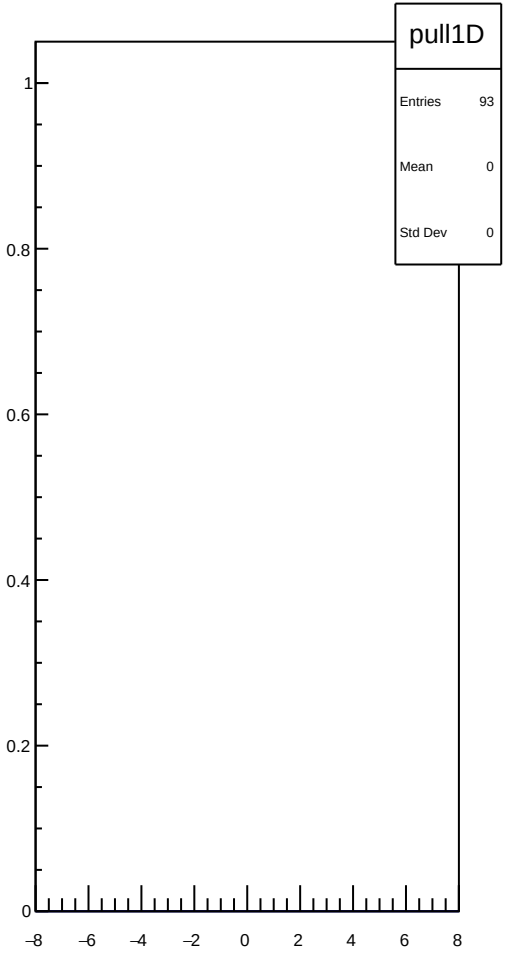

IGL1I00OD16_16_mean vs run
χ² / ndf 1.056e+04 / 92
p0 16.01± 1.037e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 93
Mean 46.5
Std Dev 26.85
10
8
6
4
2
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

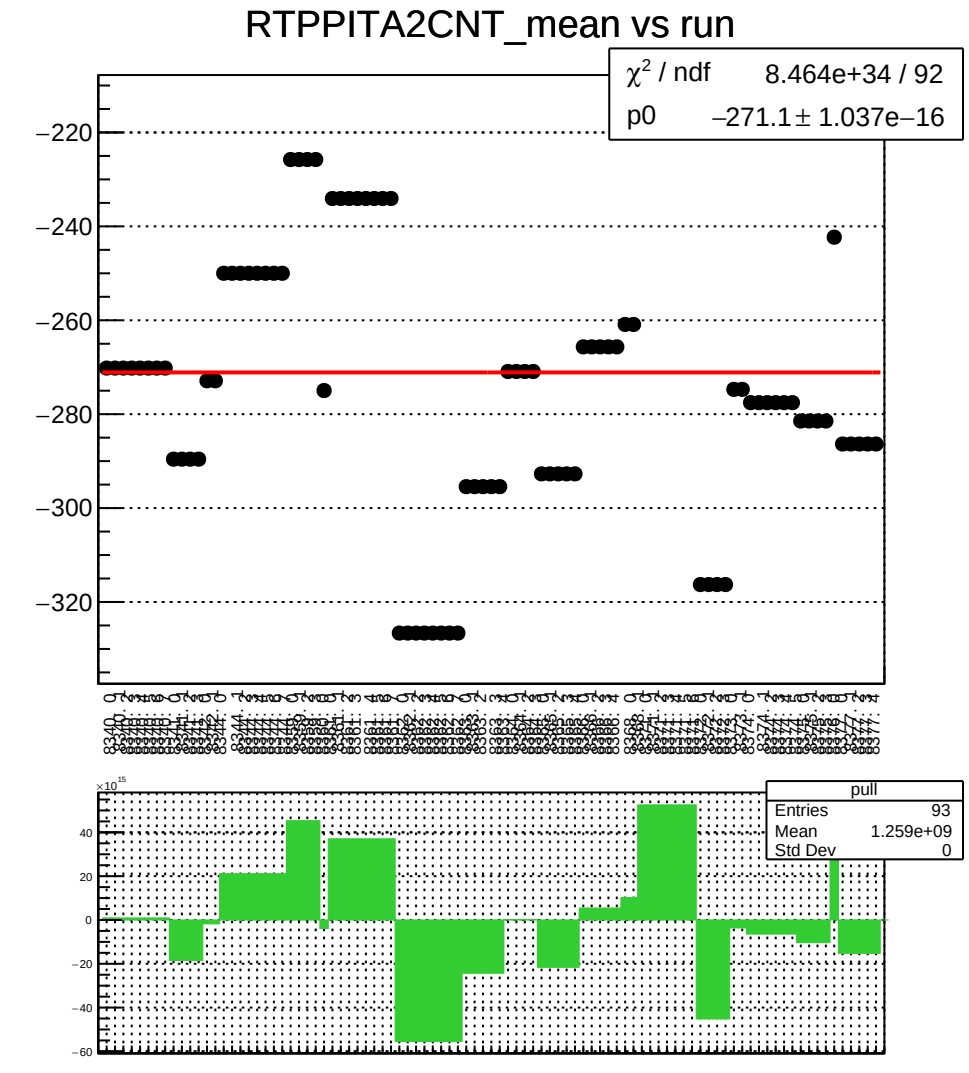

RTPAPOSUCNT_mean vs run
χ² / ndf 3.269e+26 / 92
p0 1146 ± 1.037e−16
1146.018
1146.017
1146.016
1146.015
1146.014
1146.013
1146.012
1146.011
1146.01
1146.009
pull
Entries 93
Mean −3.964e+07
Std Dev 0
×10⁹
8000
7000
6000
5000
4000
3000
2000
1000
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

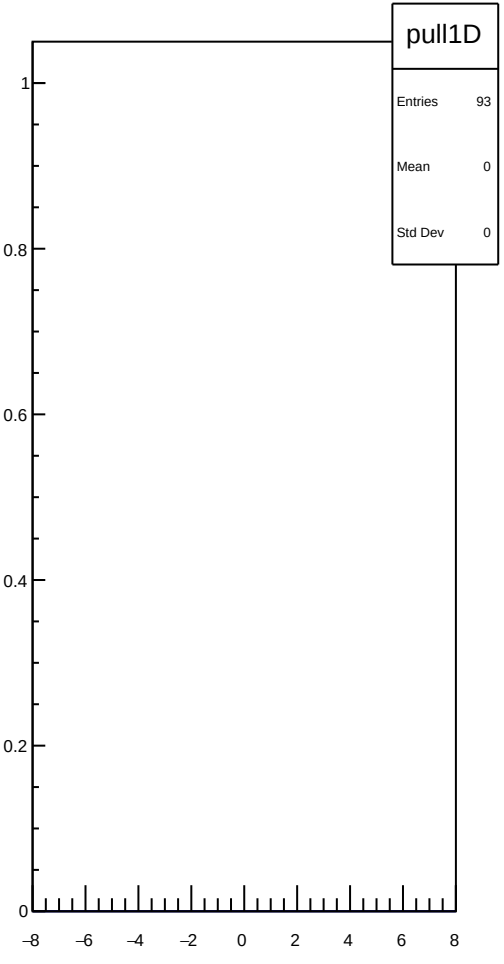

RTPAPOSVCNT_mean vs run
χ² / ndf 2.258e+27 / 92
p0 −1000 ± 1.037e−16
−999.965
−999.97
−999.975
−999.98
−999.985
−999.99
pull
Entries 93
Mean −4.978e+08
Std Dev 0
×10¹²
20
15
10
5
0


pull1D
Entries 93
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 8.464e+34 / 92
p0 −271.1 ± 1.037e−16
pull
Entries 93
Mean 1.259e+09
Std Dev 0


pull1D
Entries 93
Mean 0
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 8.464e+34 / 92
p0 −271.1 ± 1.037e−16
pull
Entries 93
Mean 1.259e+09
Std Dev 0


pull1D
Entries 93
Mean 0
Std Dev 0