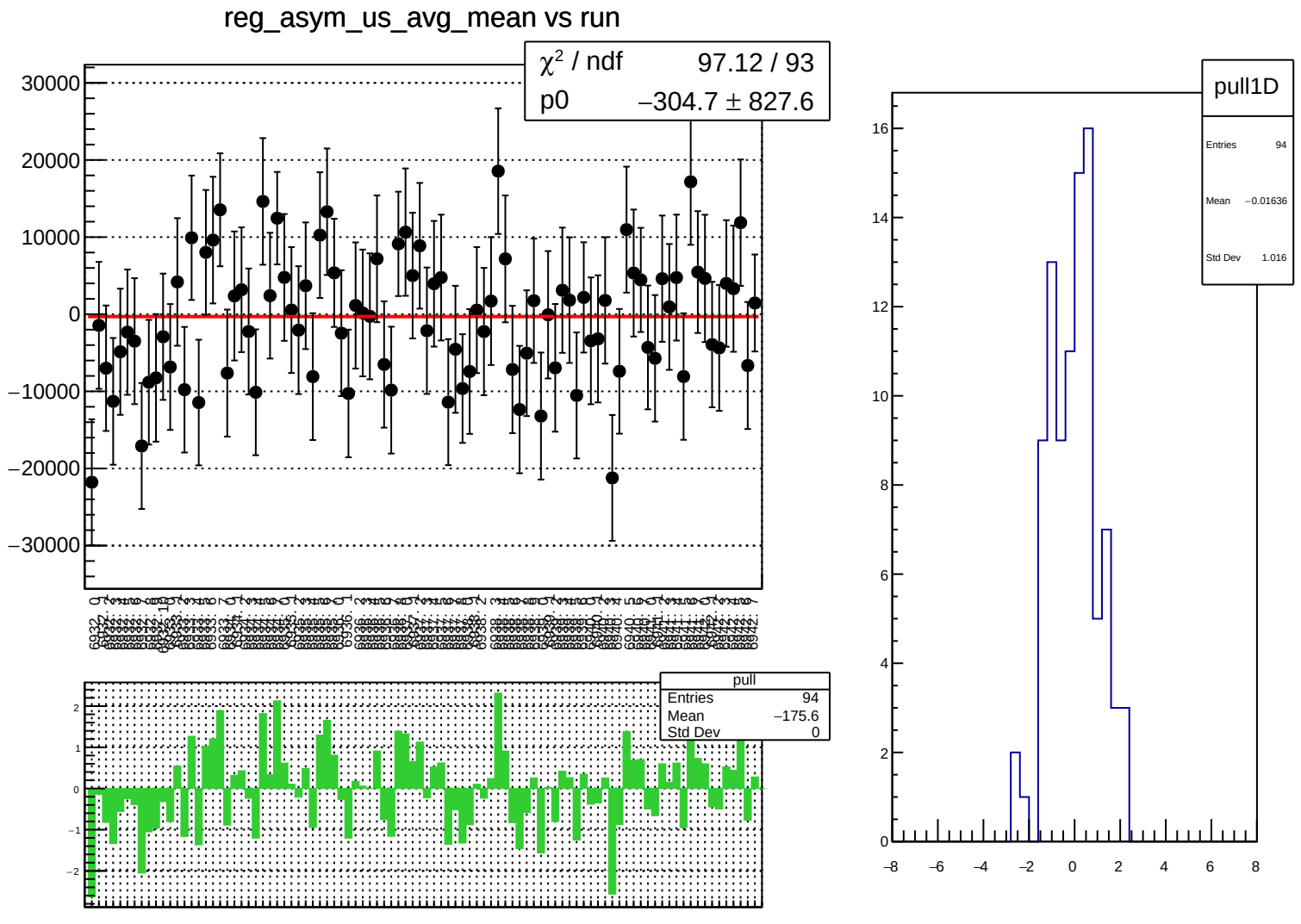
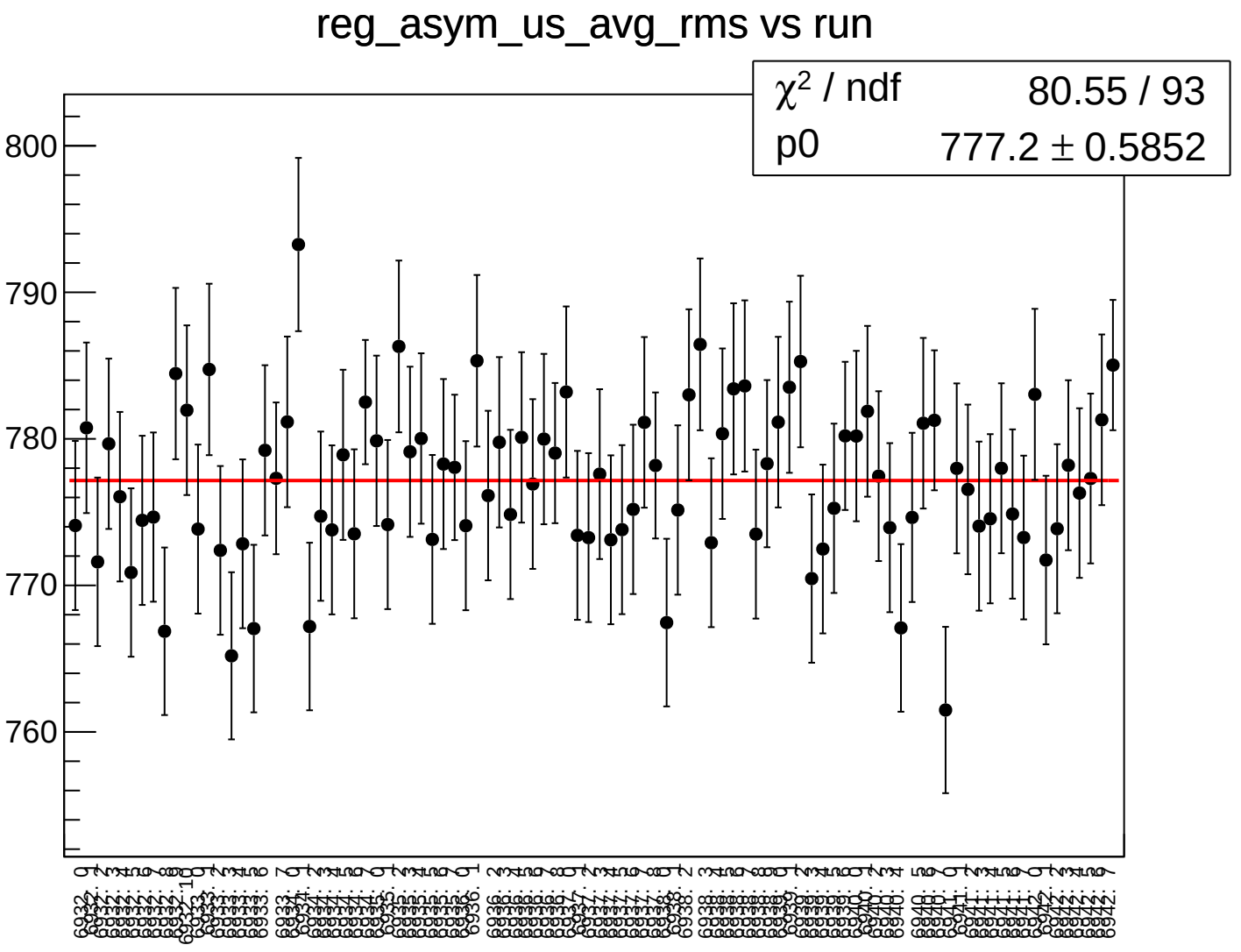
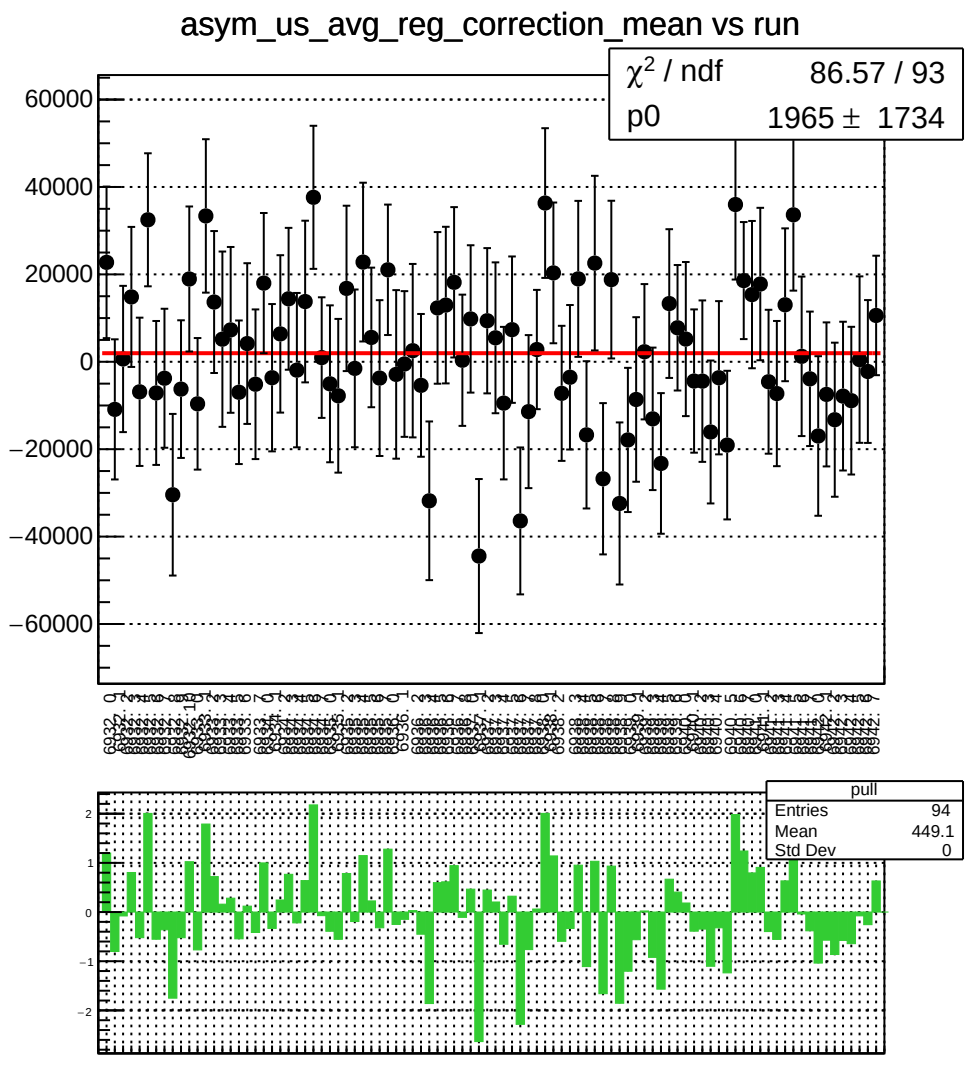
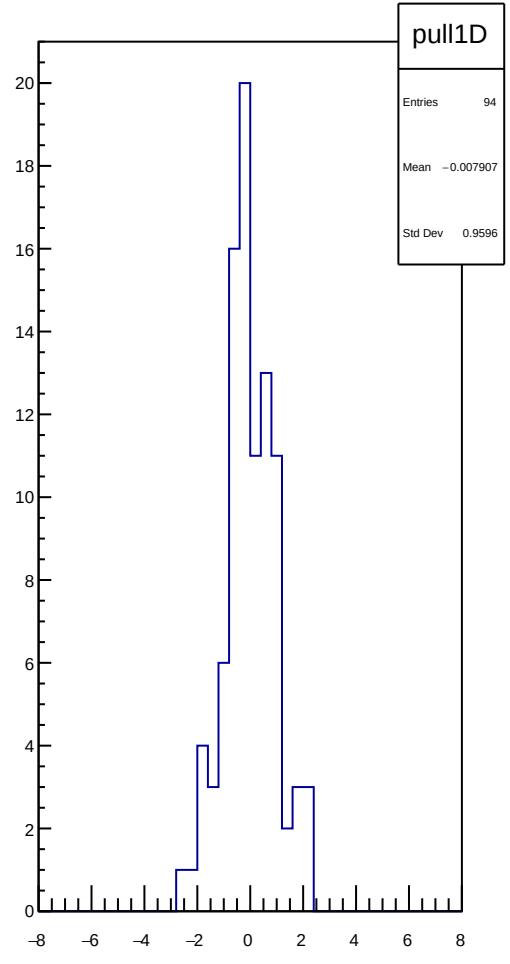
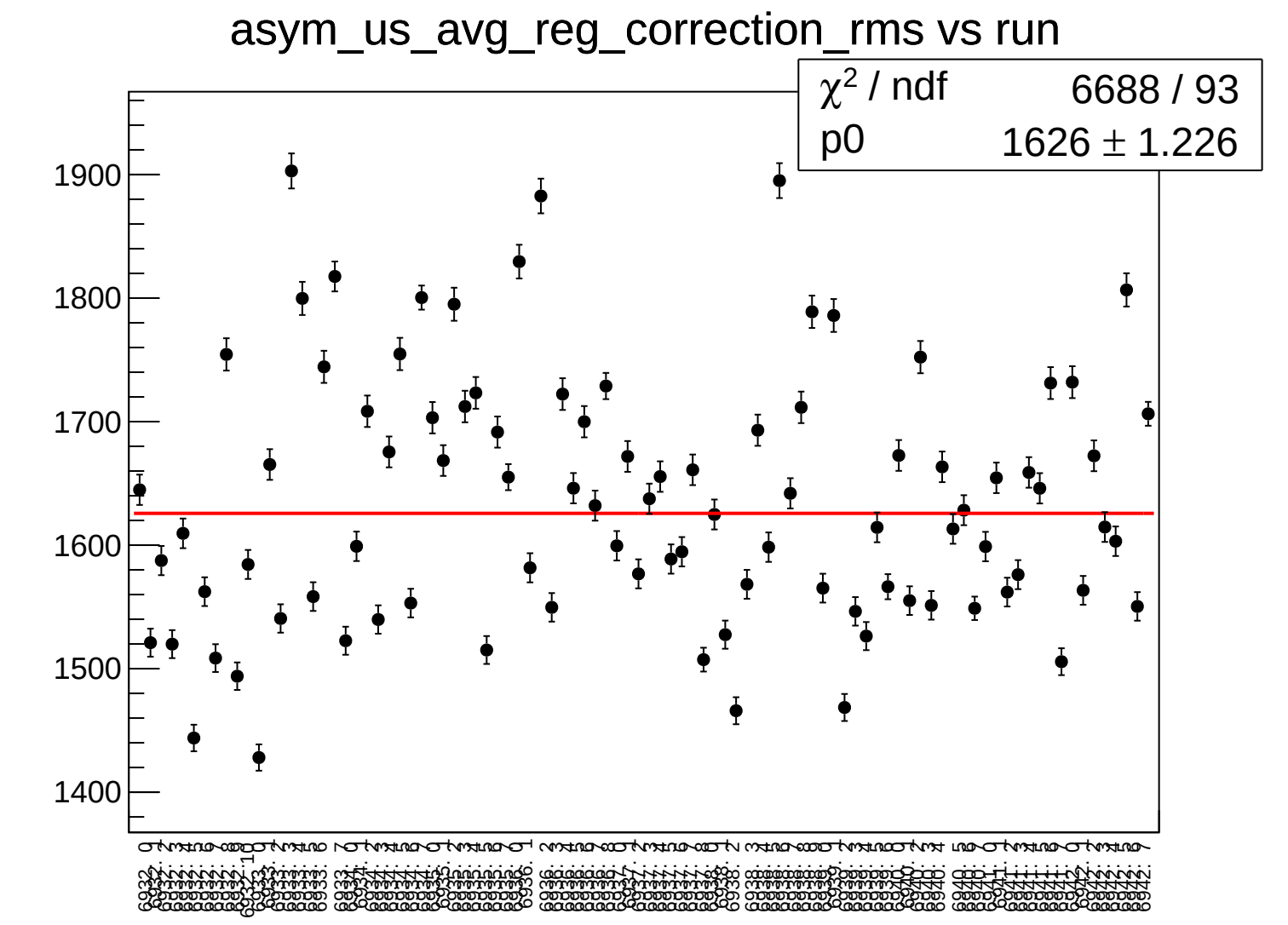
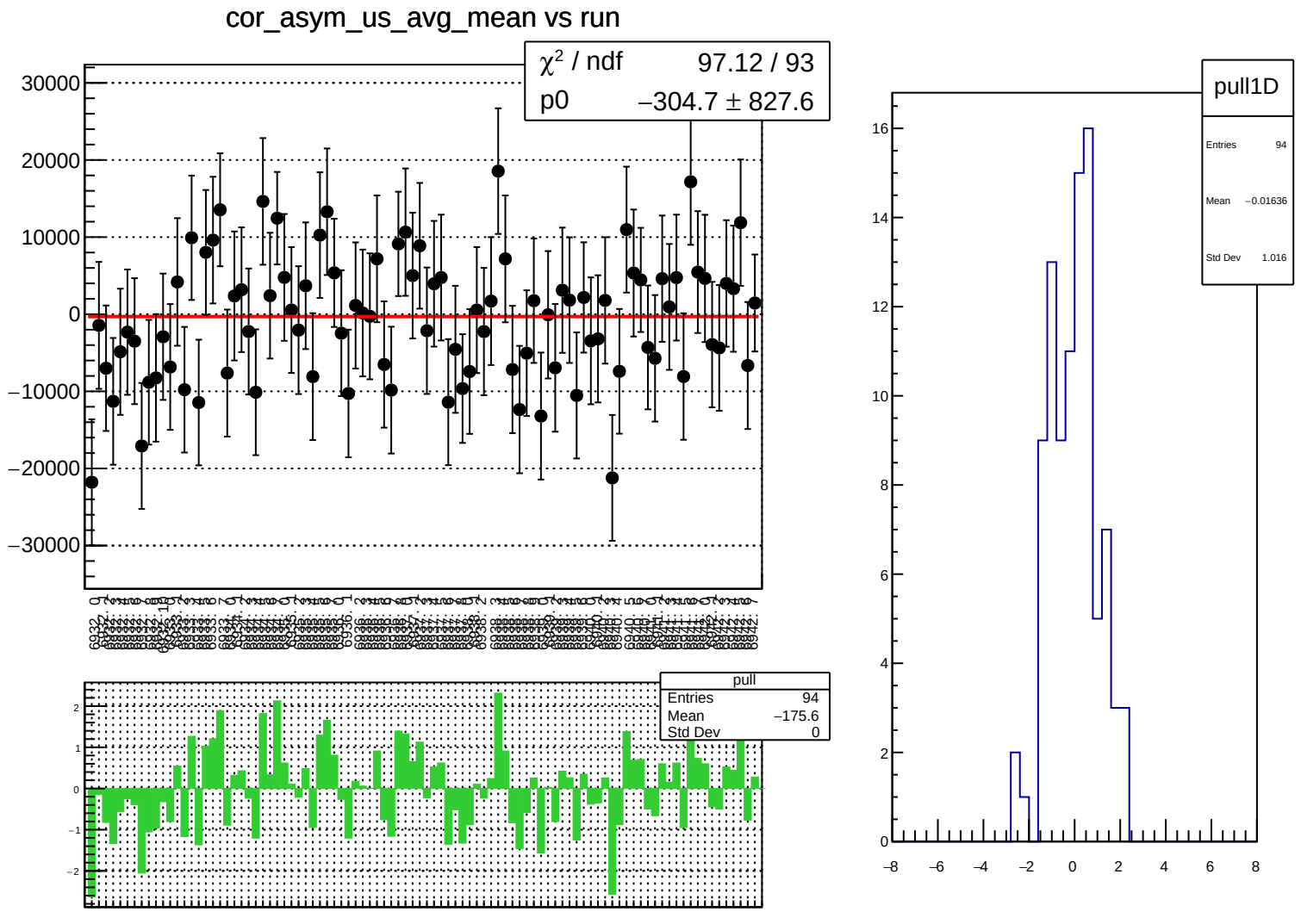

reg_asym_us_avg_mean vs run
χ² / ndf 97.12 / 93
p0 −304.7 ± 827.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −175.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01636
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ^2 / ndf 80.55 / 93
p0 777.2 ± 0.5852
800
790
780
770
760


asym_us_avg_reg_correction_mean vs run
χ² / ndf 86.57 / 93
p0 1965 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 449.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.007907
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ² / ndf 6688 / 93
p0 1626 ± 1.226
1900
1800
1700
1600
1500
1400


cor_asym_us_avg_mean vs run
χ² / ndf 97.12 / 93
p0 −304.7 ± 827.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −175.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01636
Std Dev 1.016
16
14
12
10
8
6
4
2
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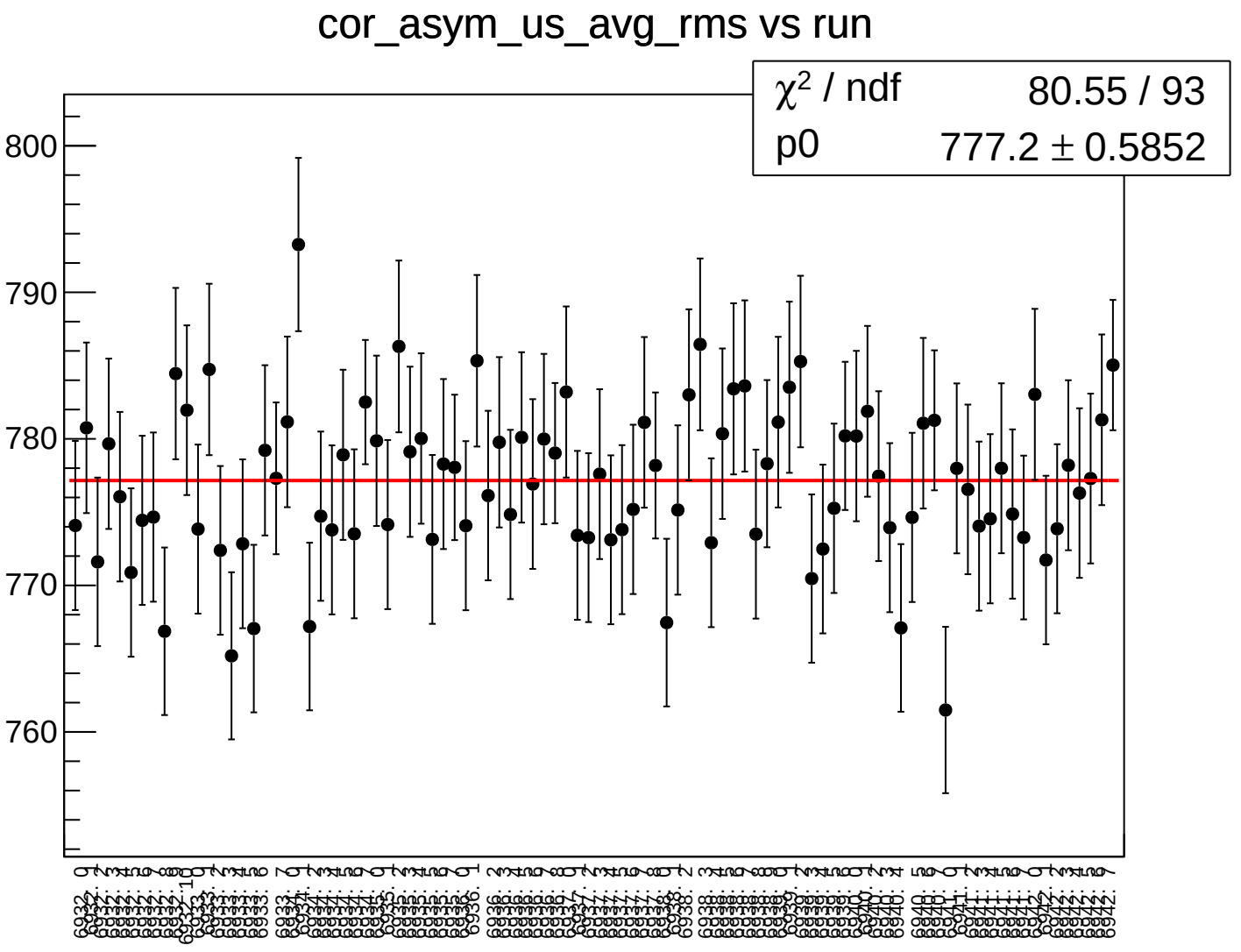
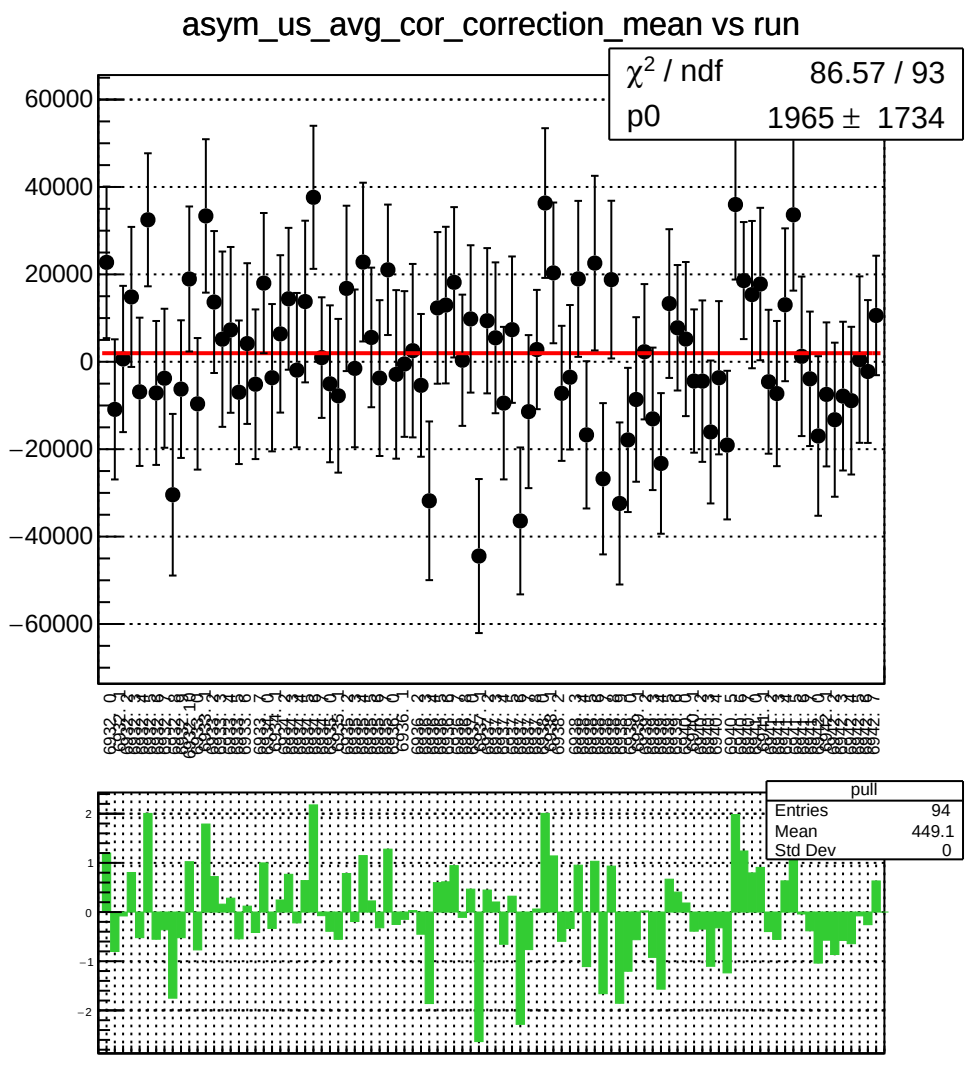
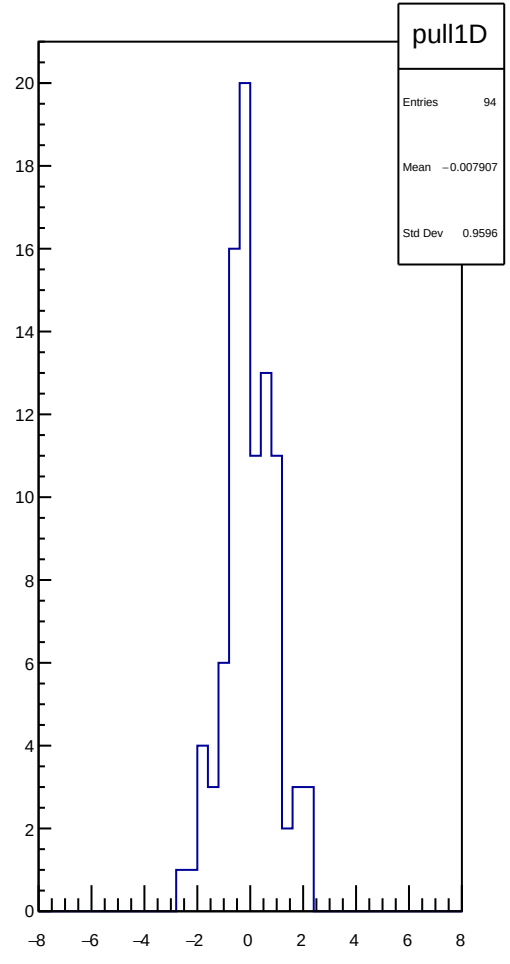
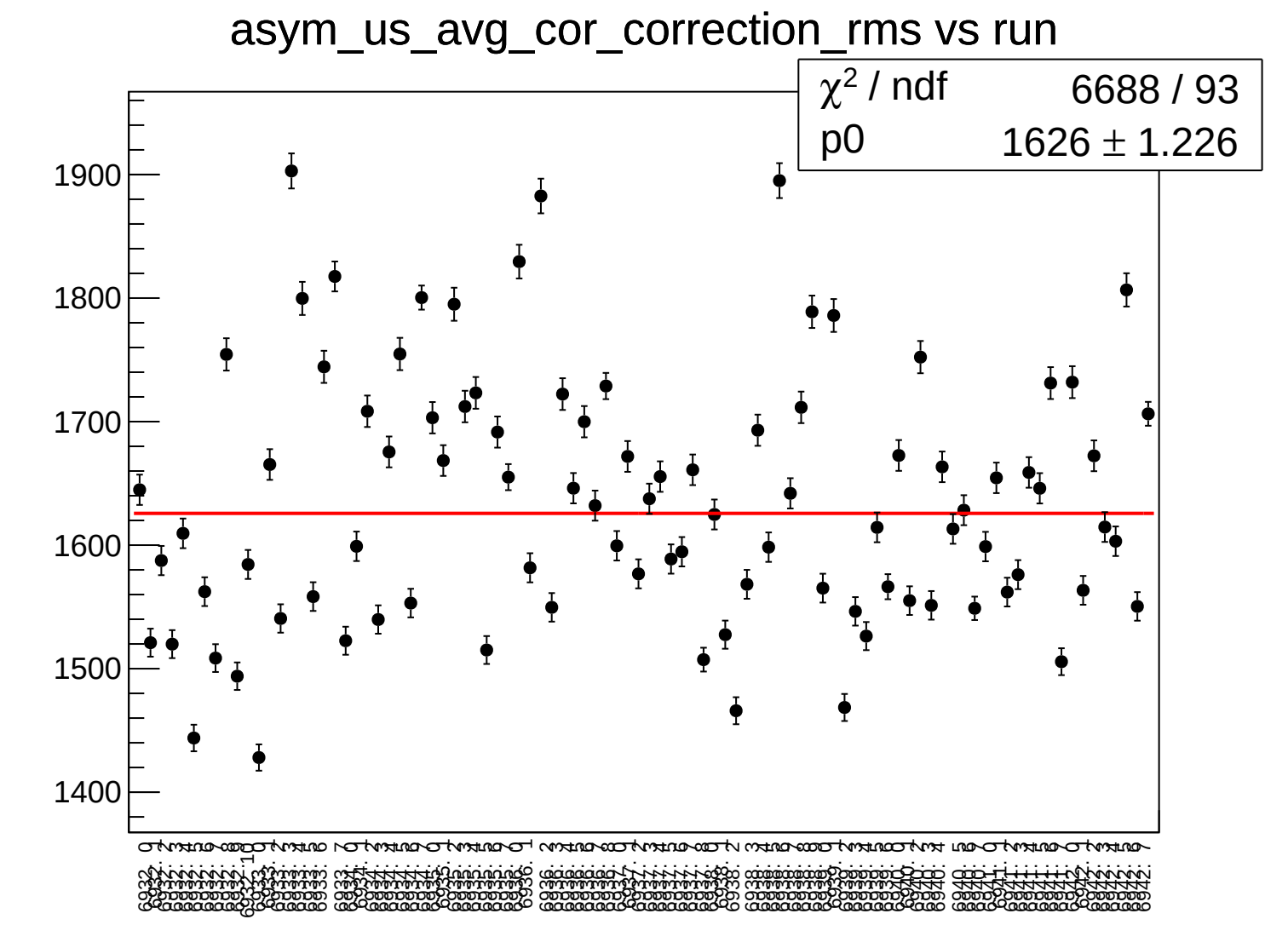
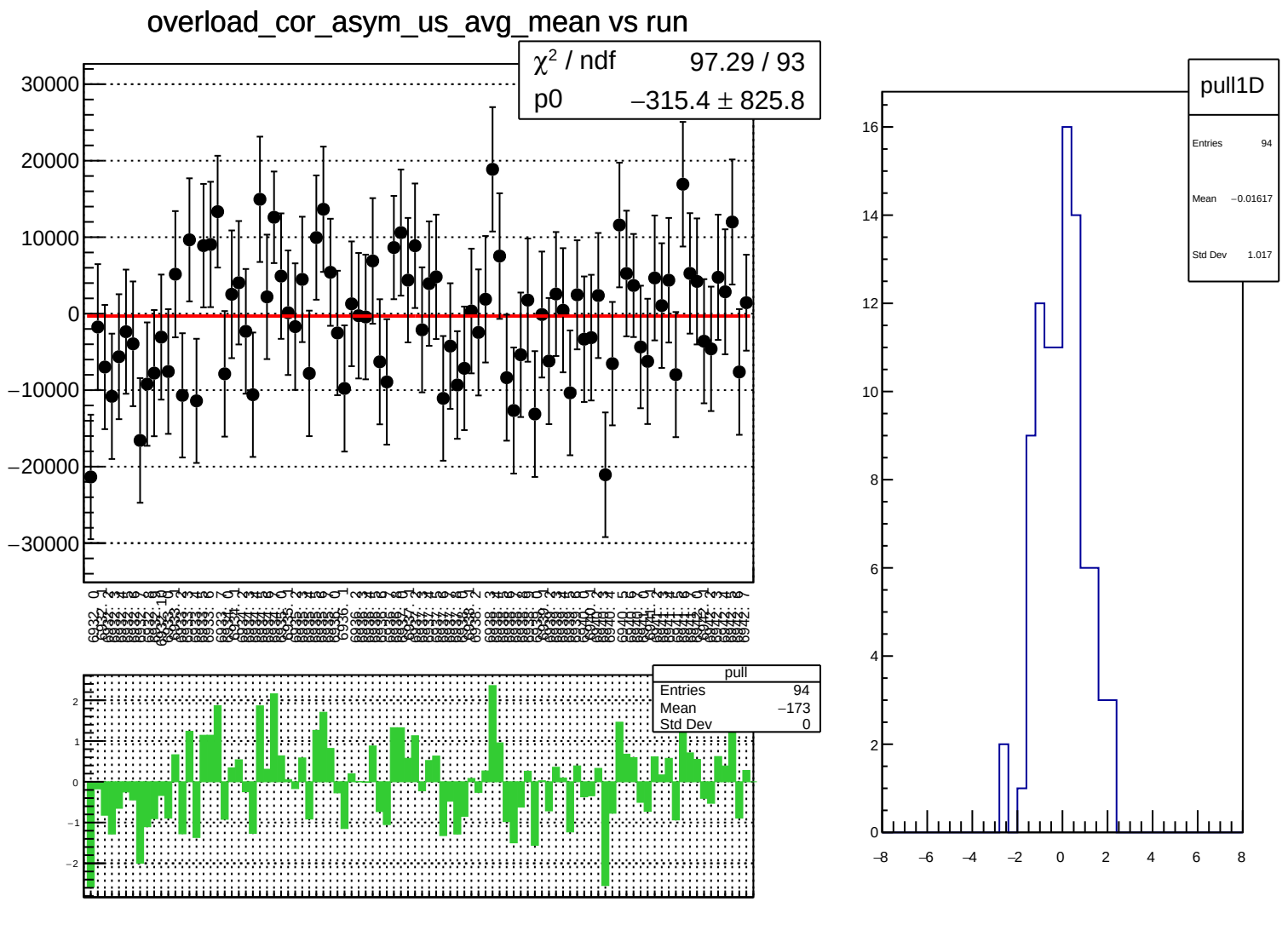
−8
−6
−4
−2
0
2
4
6
8

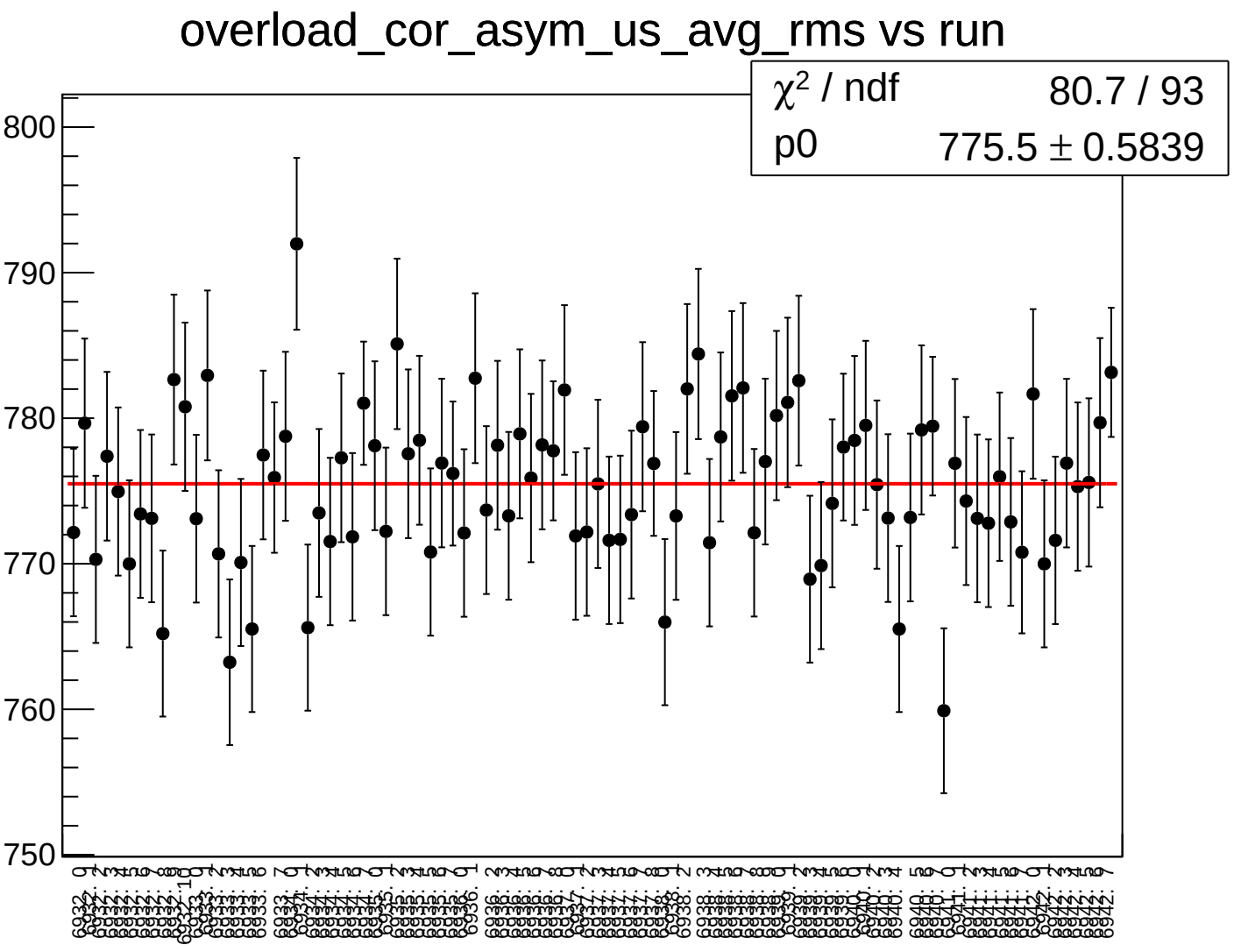

cor_asym_us_avg_rms vs run
χ^2 / ndf 80.55 / 93
p0 777.2 ± 0.5852
800
790
780
770
760

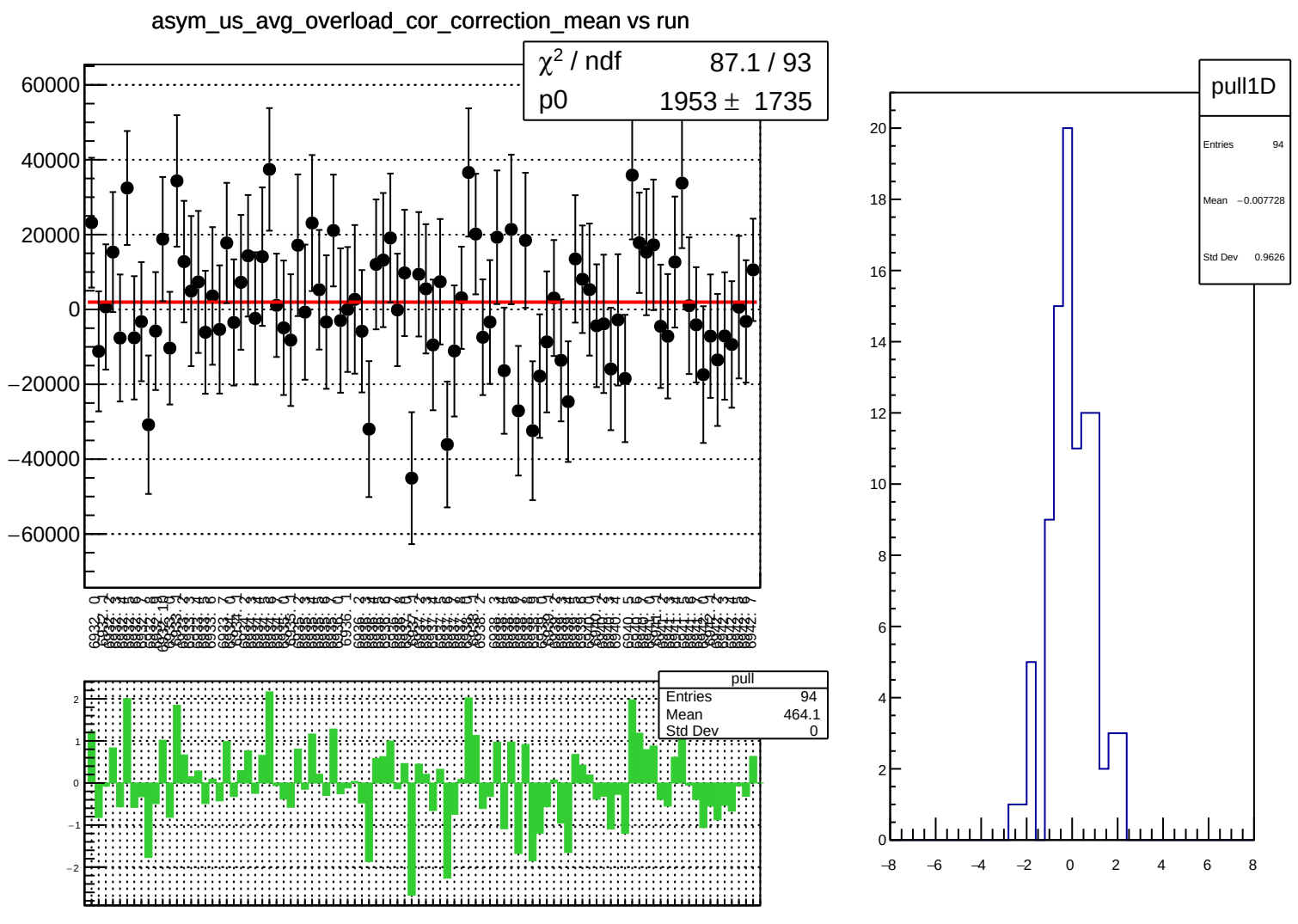

asym_us_avg_cor_correction_mean vs run
χ² / ndf 86.57 / 93
p0 1965 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 449.1
Std Dev 0
2
1
0
−1
−2

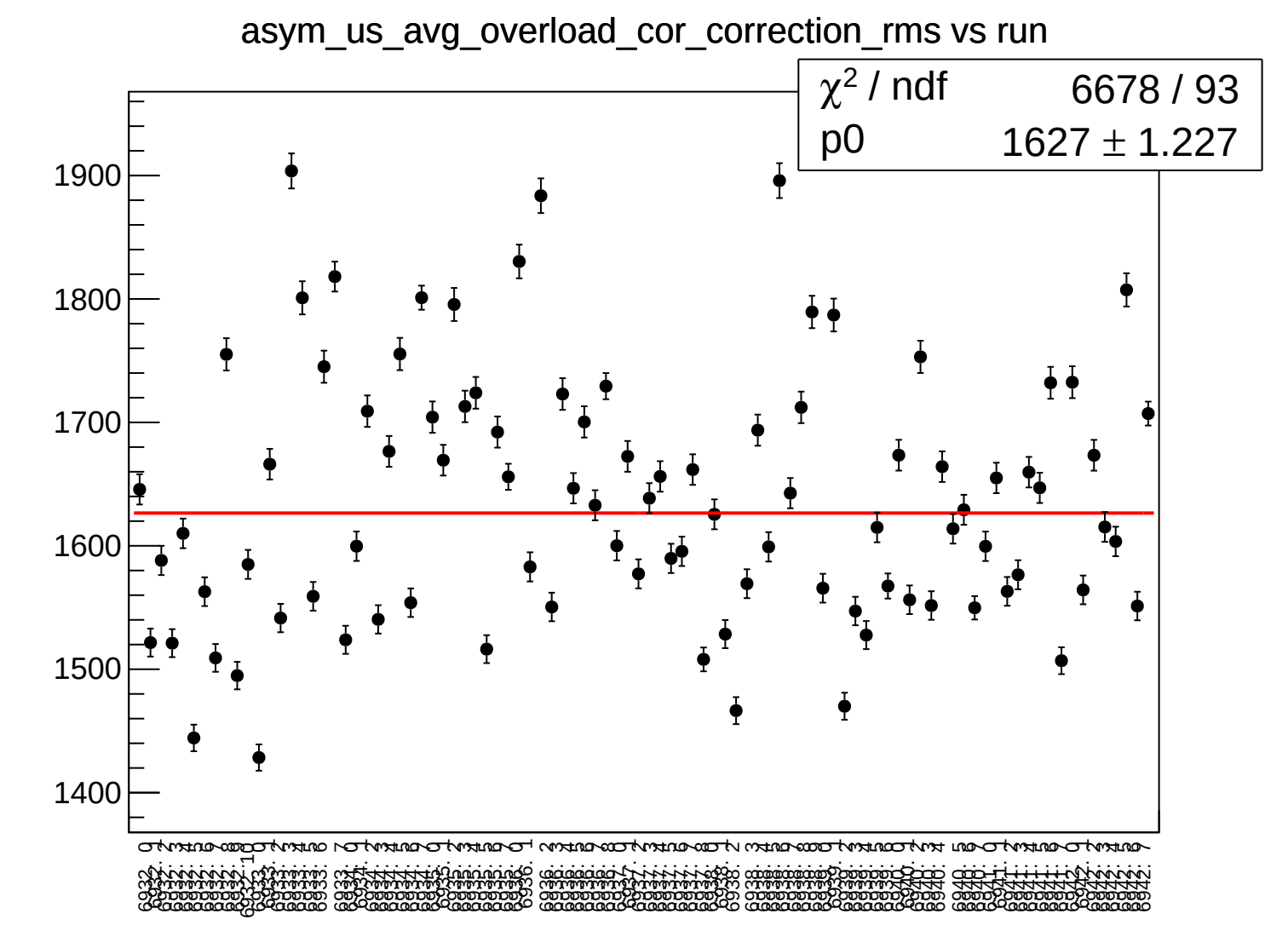

pull1D
Entries 94
Mean −0.007907
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

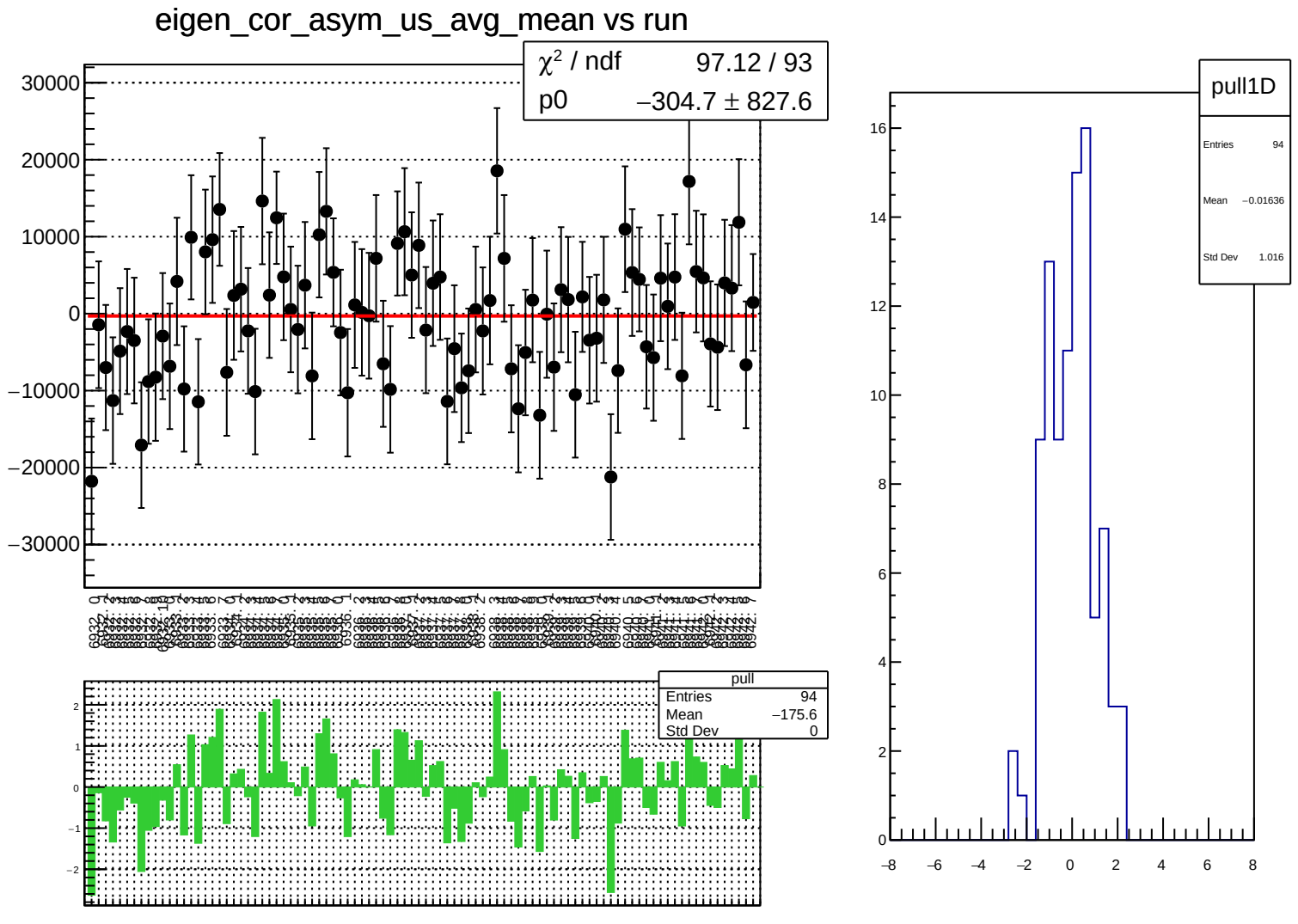

asym_us_avg_cor_correction_rms vs run
χ² / ndf 6688 / 93
p0 1626 ± 1.226
1900
1800
1700
1600
1500
1400

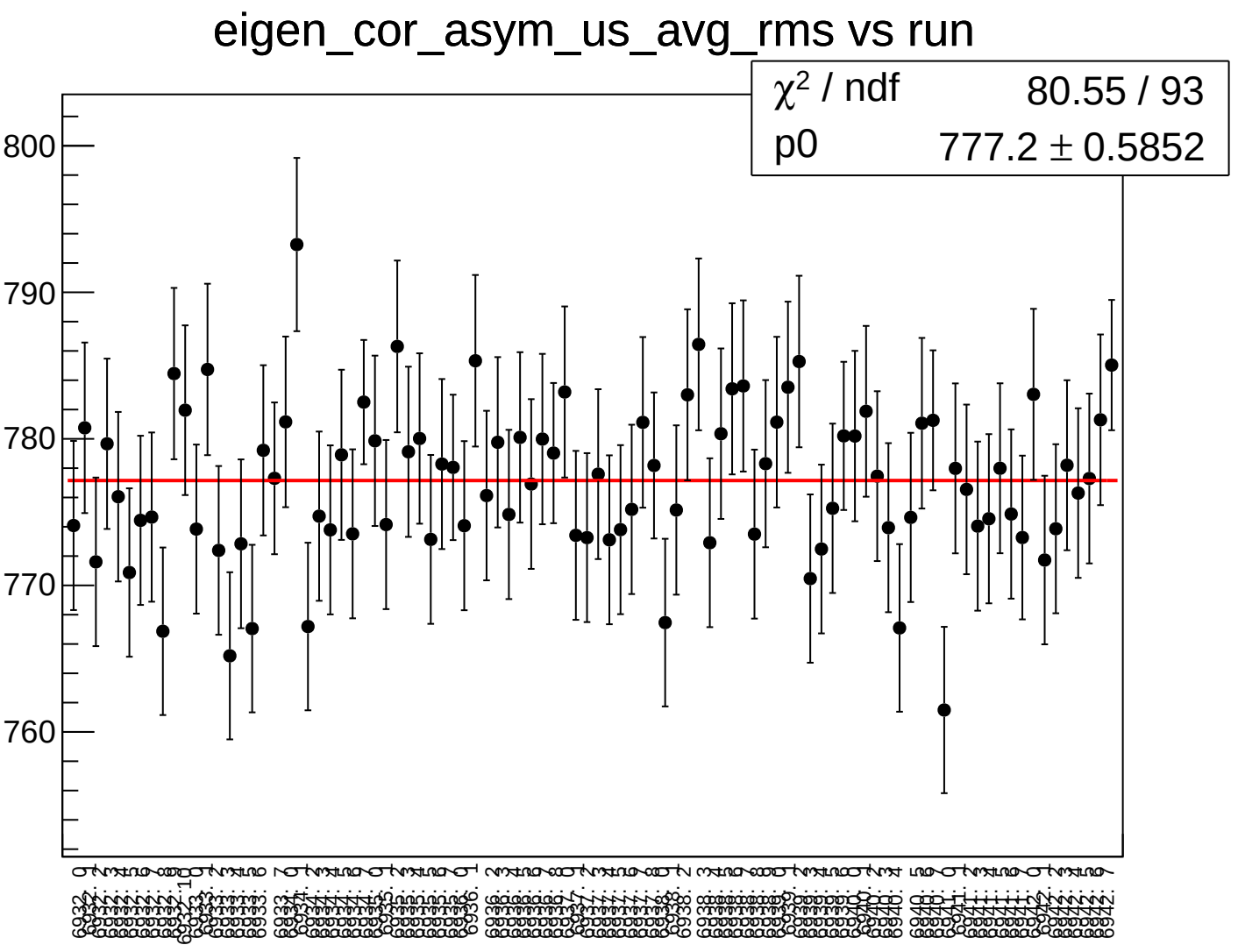

overload_cor_asym_us_avg_mean vs run
χ² / ndf 97.29 / 93
p0 −315.4 ± 825.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −173
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01617
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

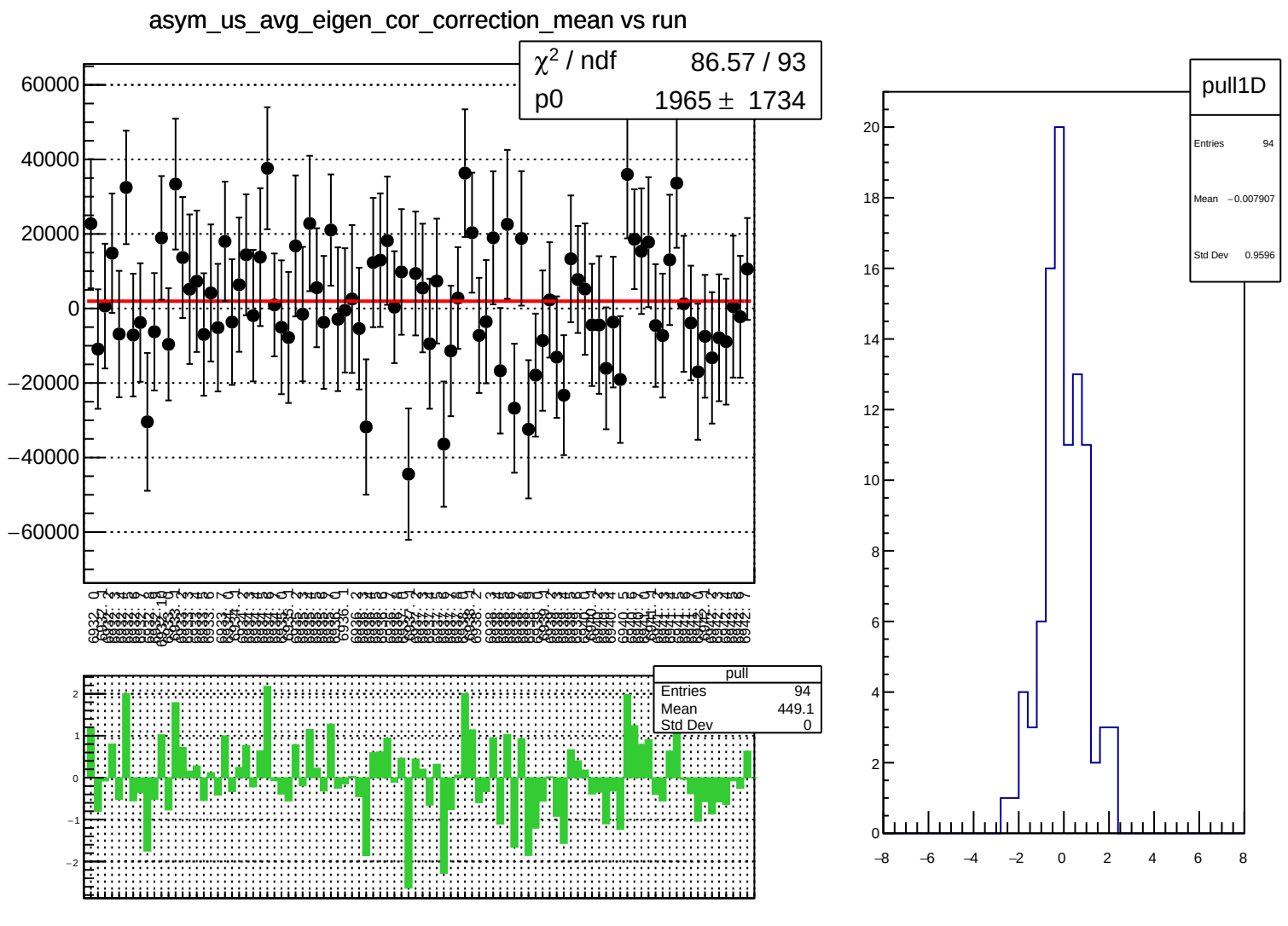

overload_cor_asym_us_avg_rms vs run
χ² / ndf 80.7 / 93
p0 775.5 ± 0.5839
800
790
780
770
760
750

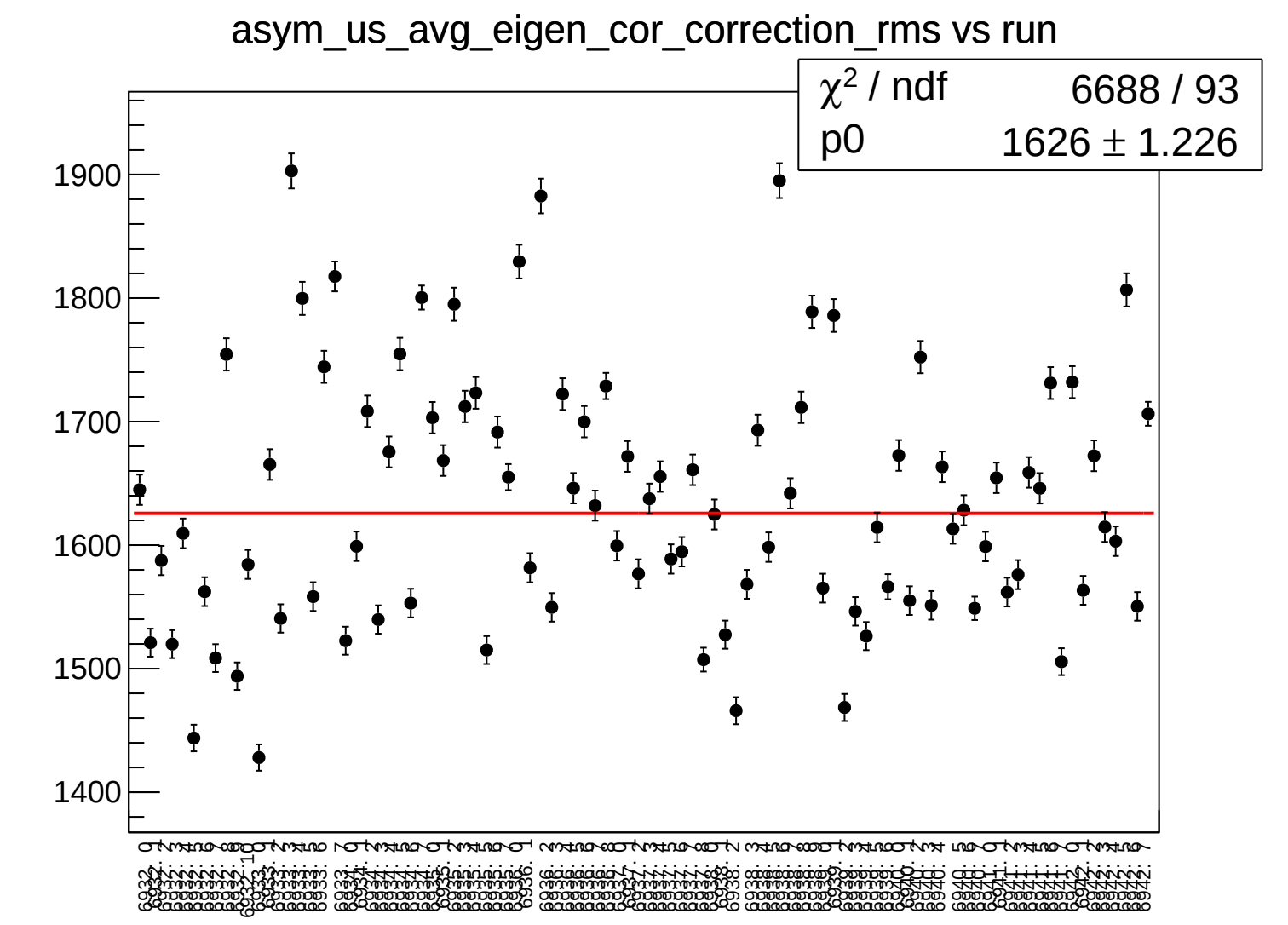

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 87.1 / 93
p0 1953 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 464.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007728
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

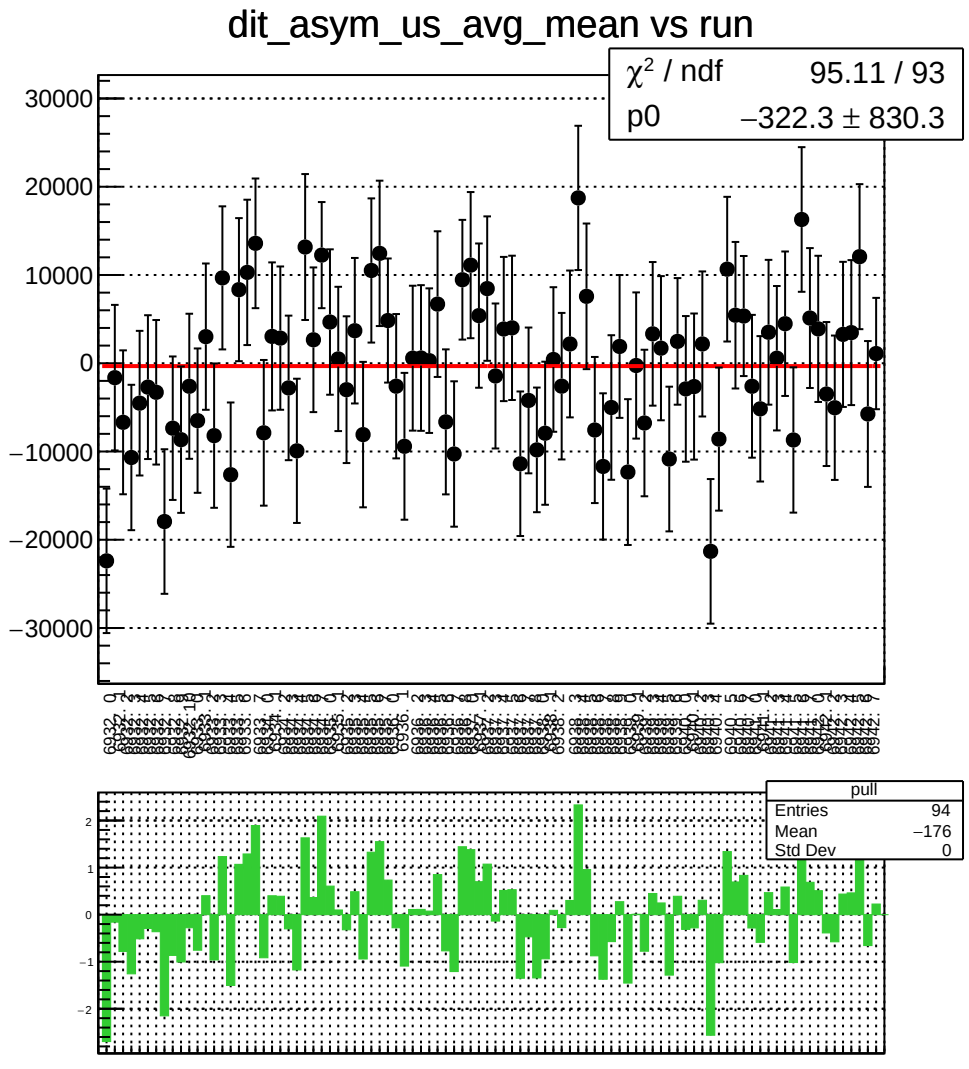

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 6678 / 93
p0 1627 ± 1.227
1900
1800
1700
1600
1500
1400

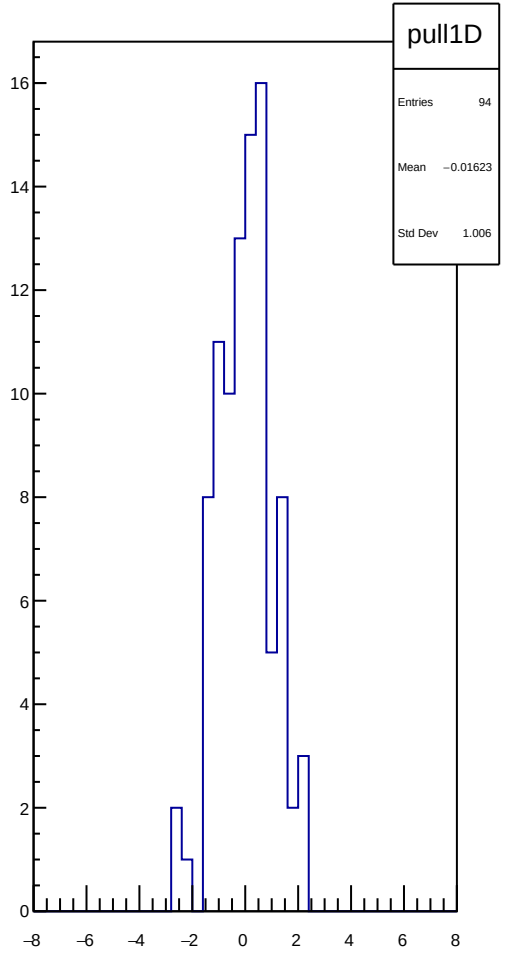

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 97.12 / 93
p0 −304.7 ± 827.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −175.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01636
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

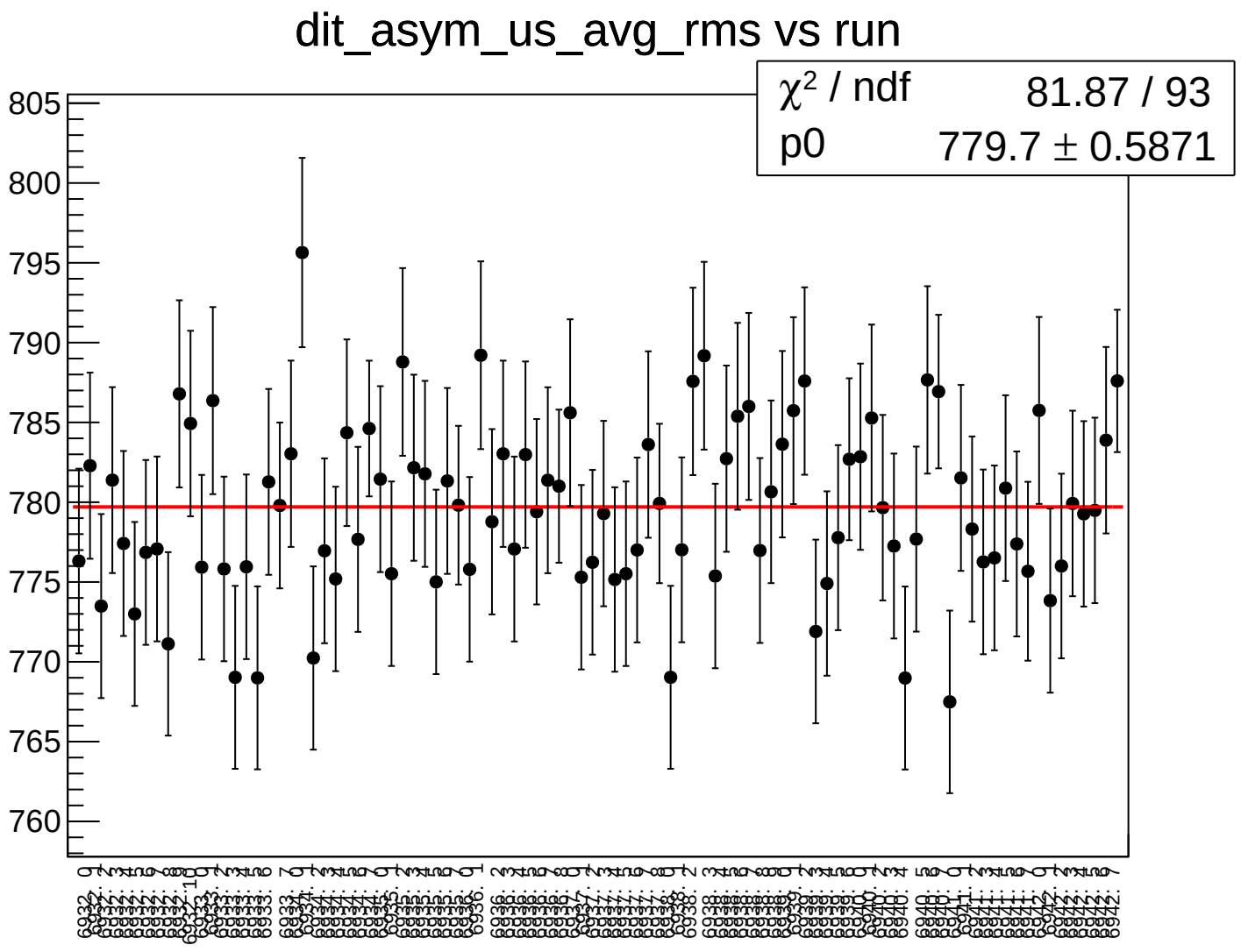

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 80.55 / 93
p0 777.2 ± 0.5852
800
790
780
770
760

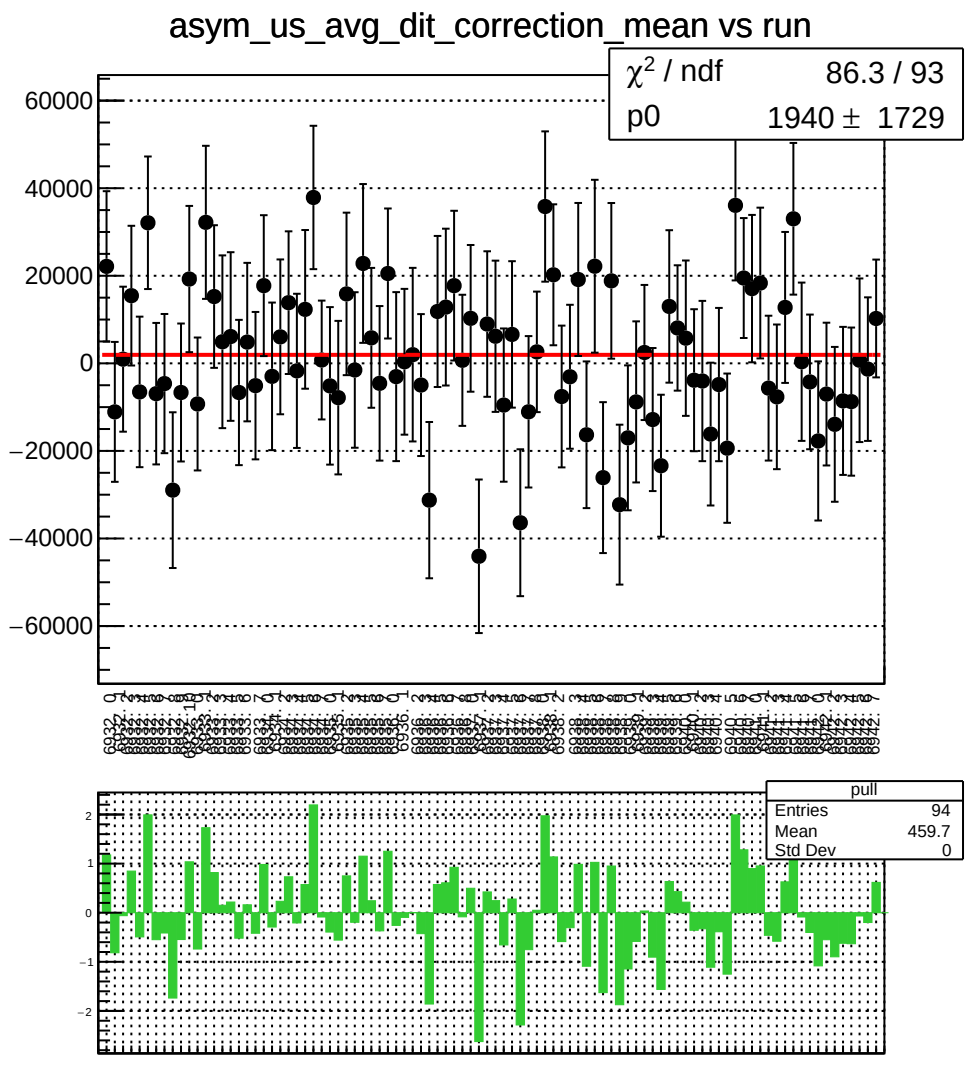

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.57 / 93
p0 1965 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 449.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007907
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

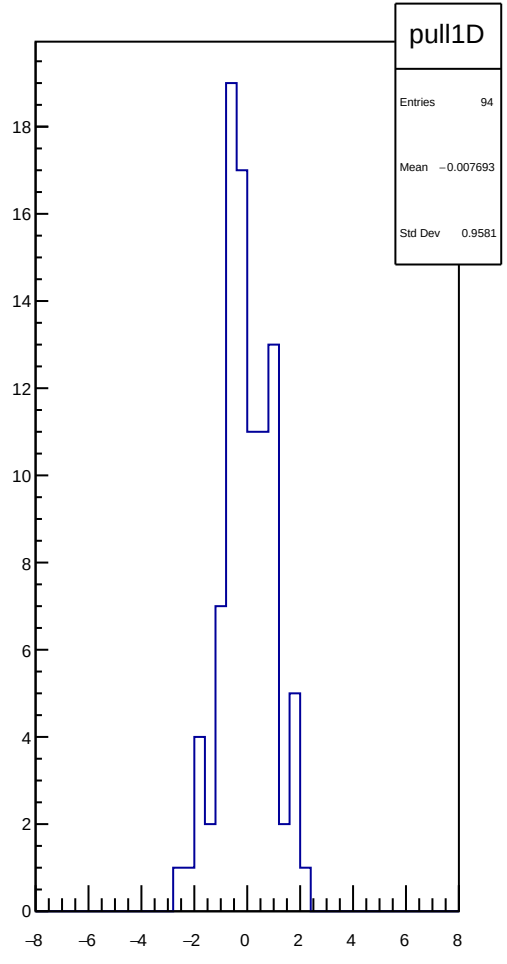

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 6688 / 93
p0 1626 ± 1.226
1900
1800
1700
1600
1500
1400

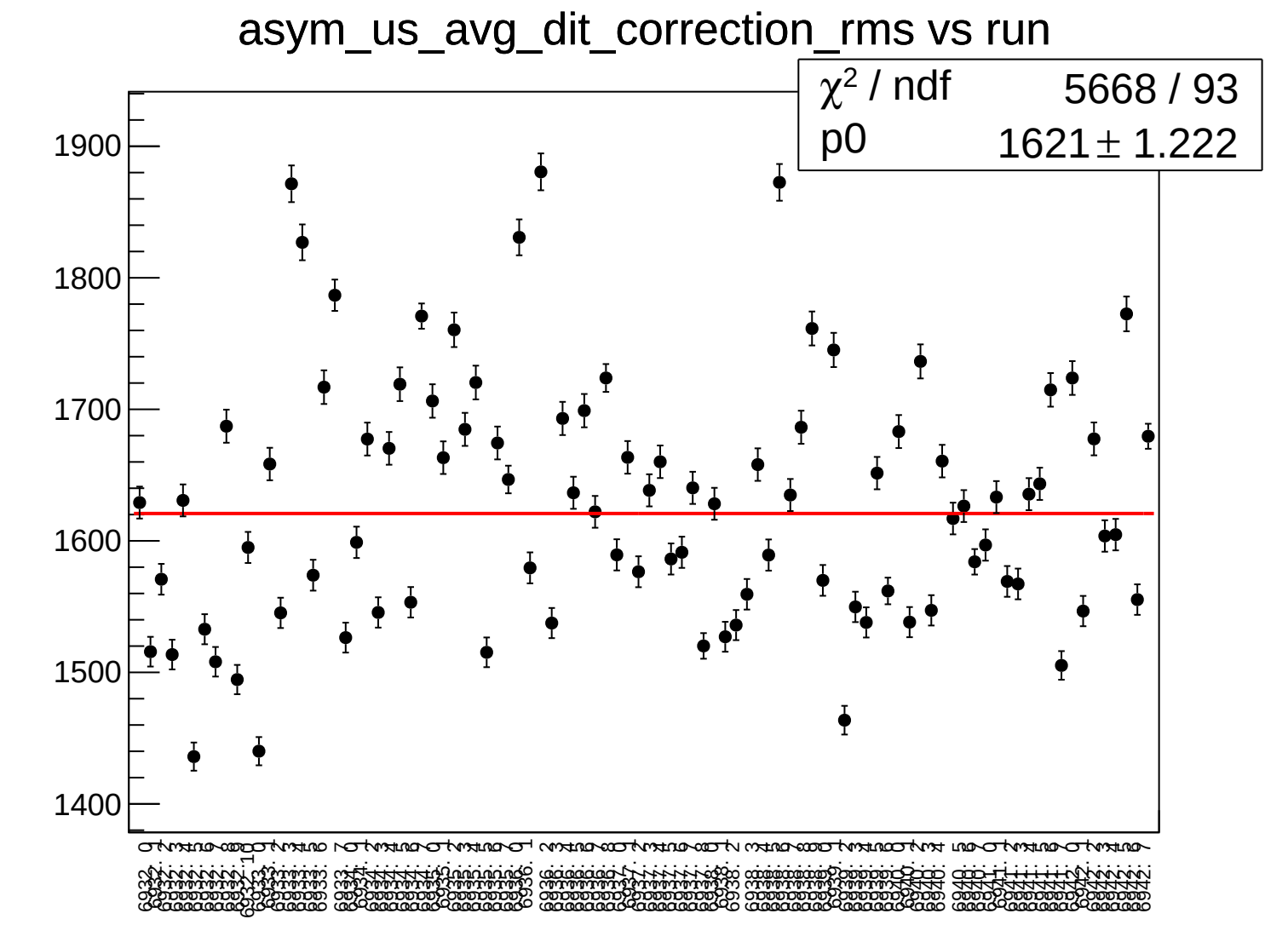

dit_asym_us_avg_mean vs run
χ² / ndf 95.11 / 93
p0 −322.3 ± 830.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −176
Std Dev 0
2
1
0
−1
−2

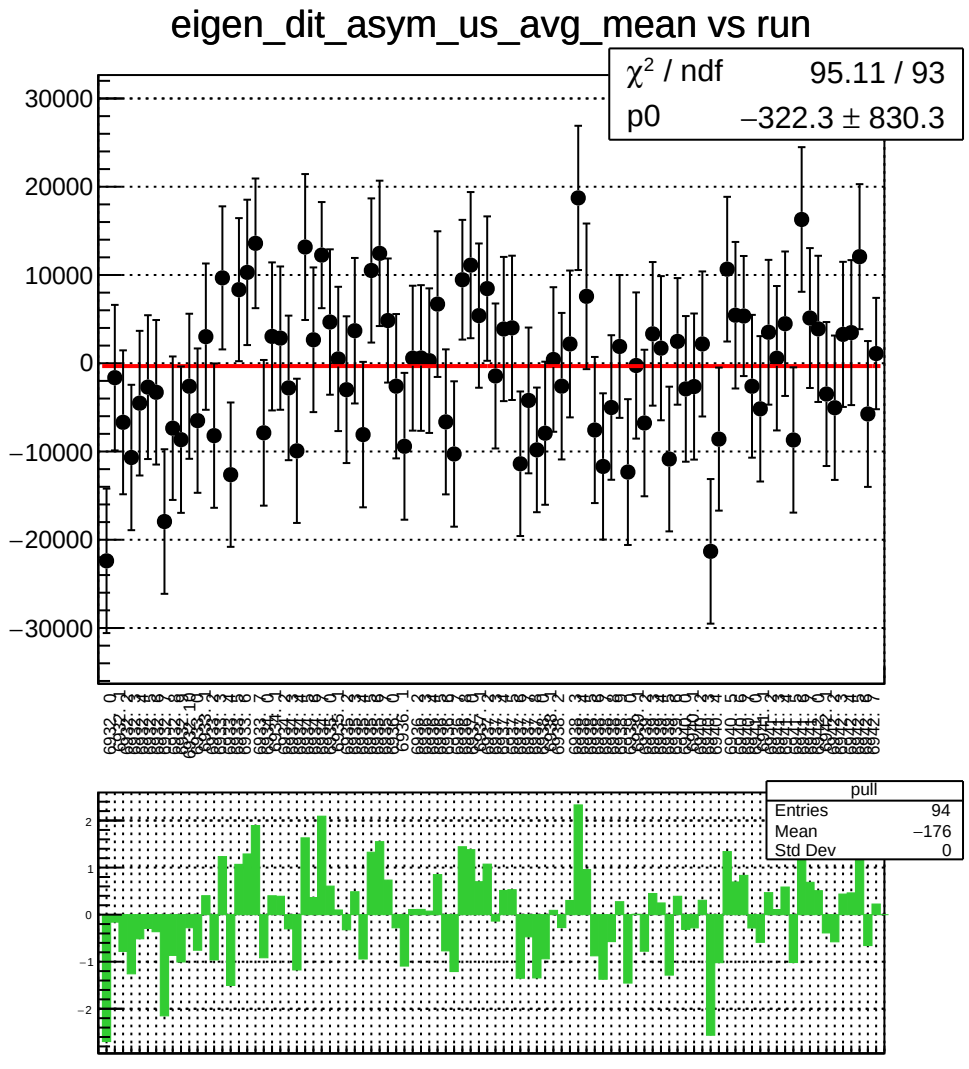

pull1D
Entries 94
Mean −0.01623
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

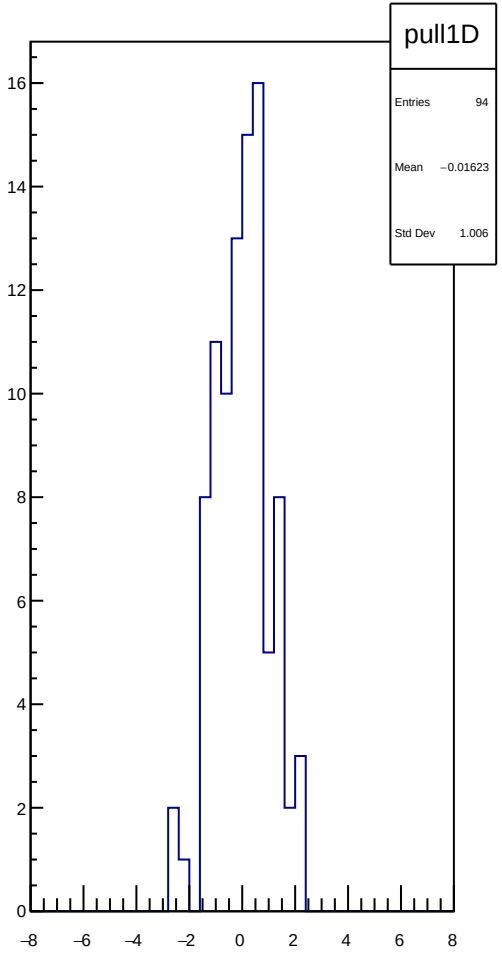

dit_asym_us_avg_rms vs run
χ² / ndf 81.87 / 93
p0 779.7 ± 0.5871
805
800
795
790
785
780
775
770
765
760

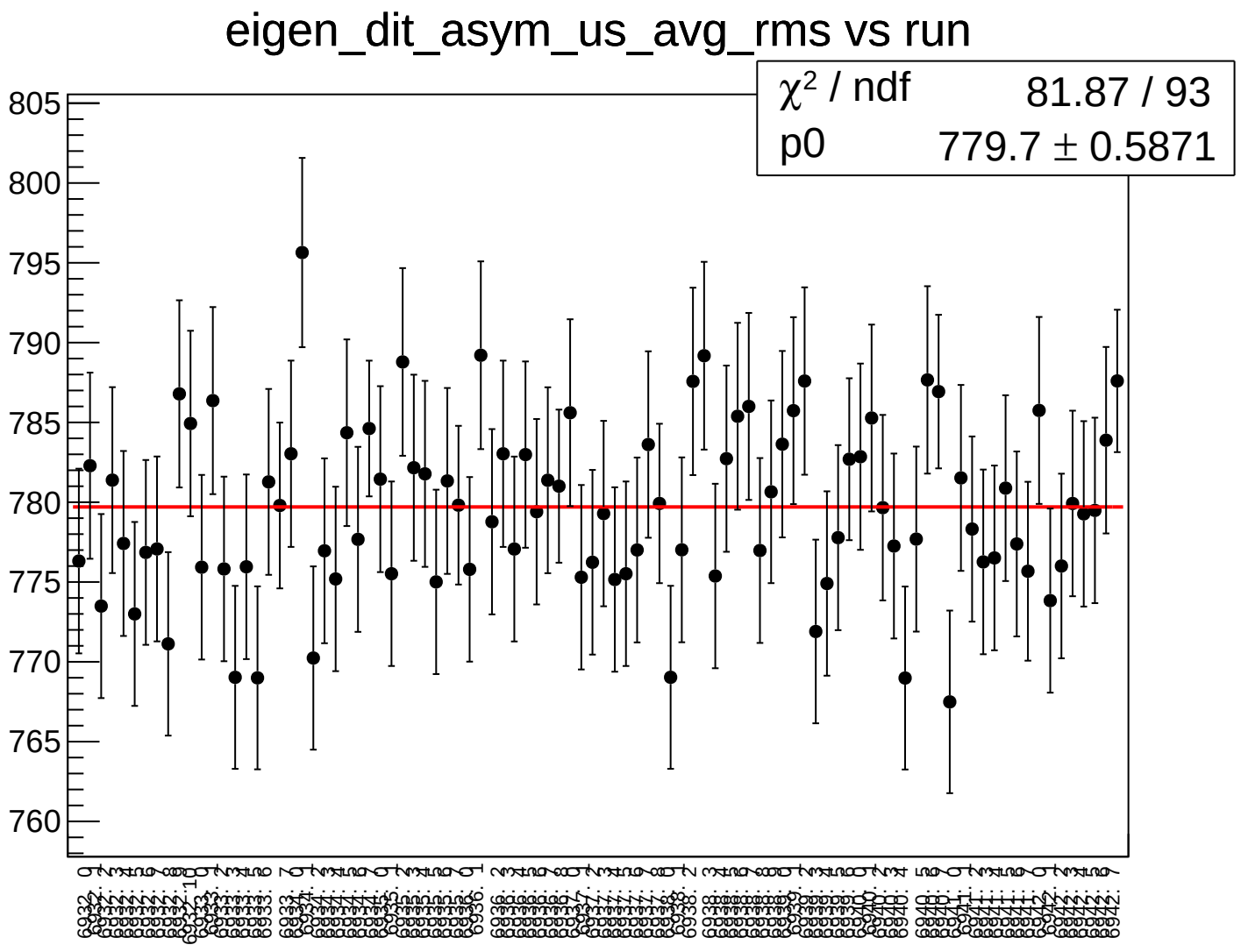

asym_us_avg_dit_correction_mean vs run
χ² / ndf 86.3 / 93
p0 1940 ± 1729
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 459.7
Std Dev 0
2
1
0
−1
−2

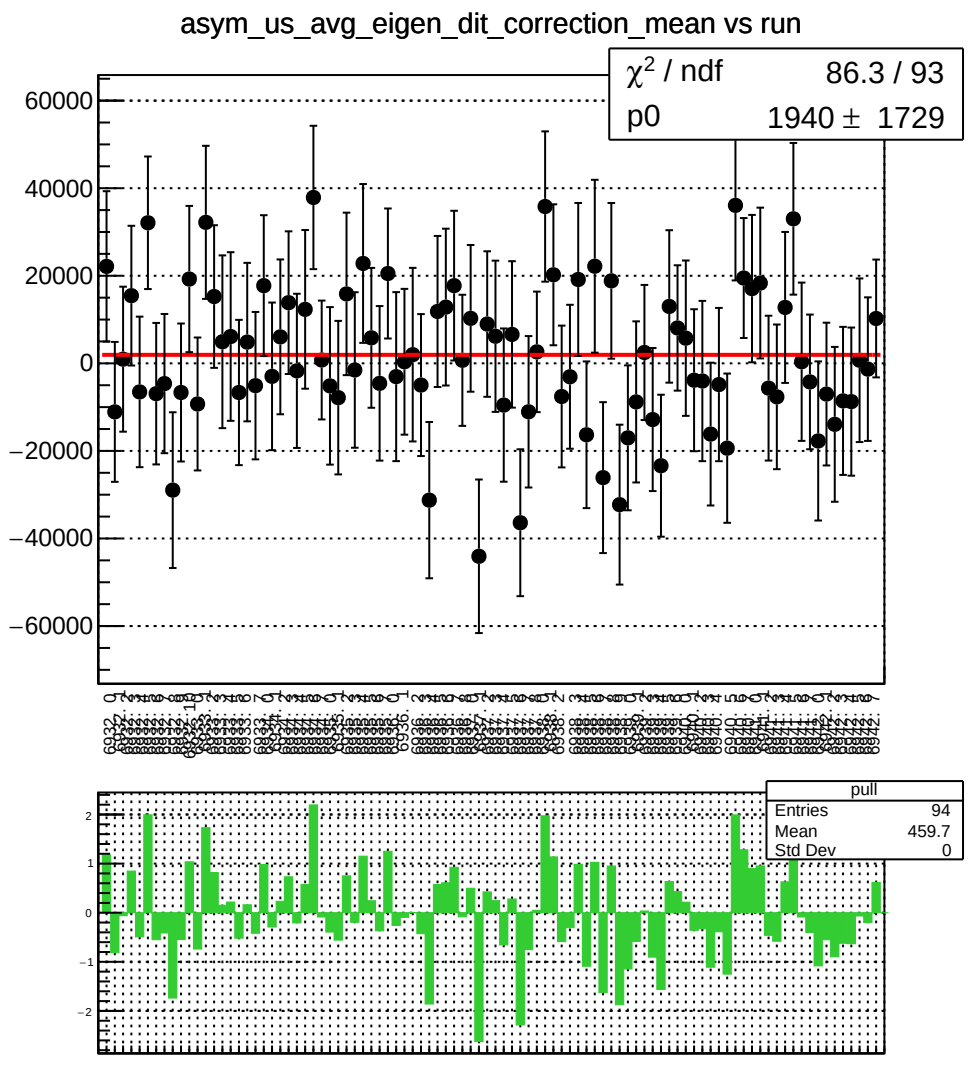

pull1D
Entries 94
Mean −0.007693
Std Dev 0.9581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

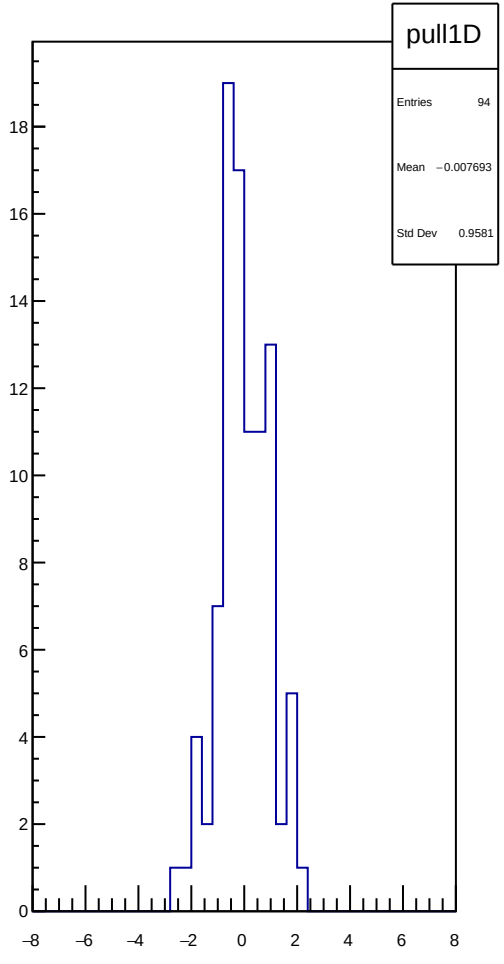

asym_us_avg_dit_correction_rms vs run
χ² / ndf 5668 / 93
p0 1621 ± 1.222
1900
1800
1700
1600
1500
1400

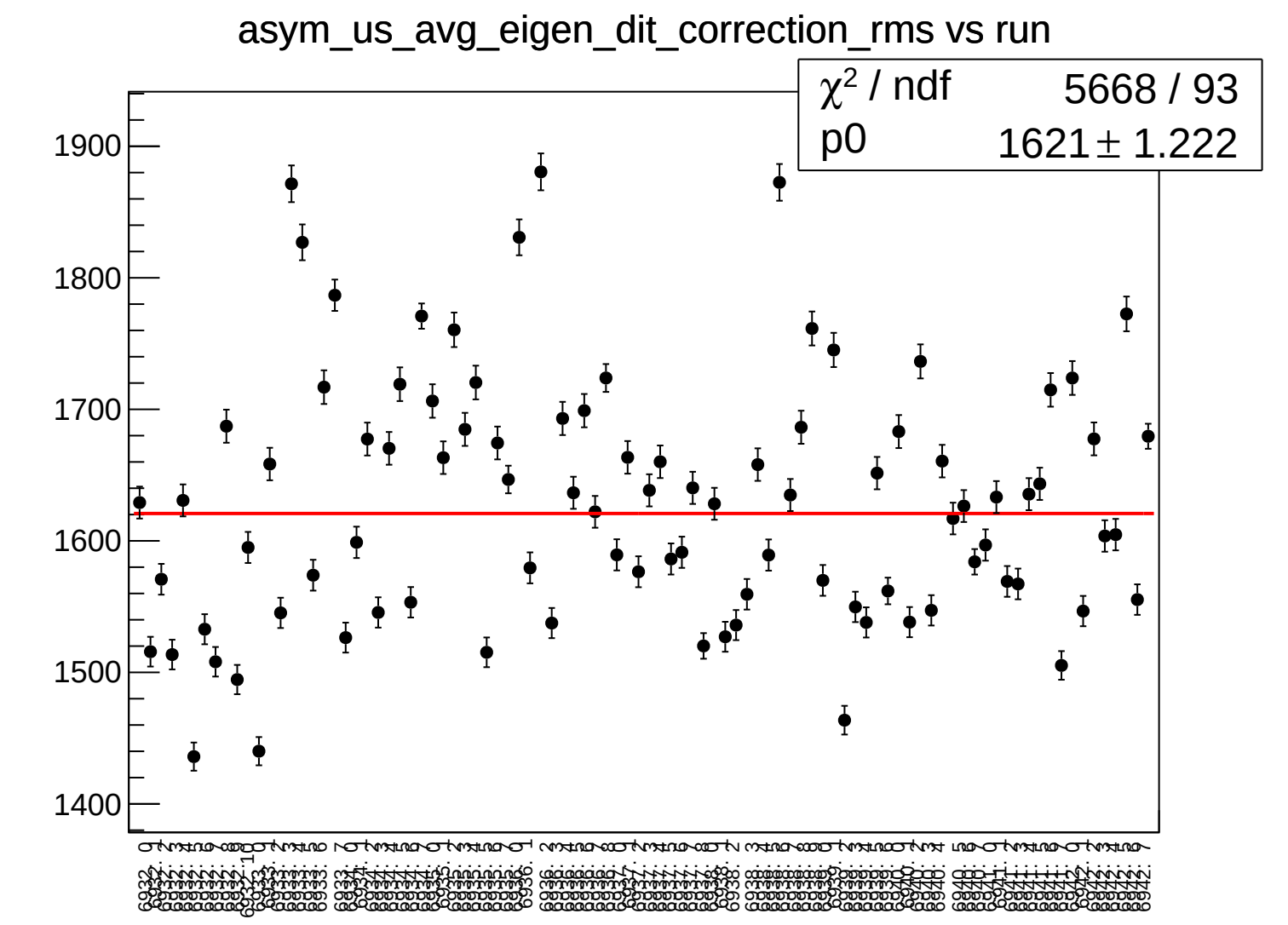

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 95.11 / 93
p0 −322.3 ± 830.3
pull
Entries 94
Mean −176
Std Dev 0

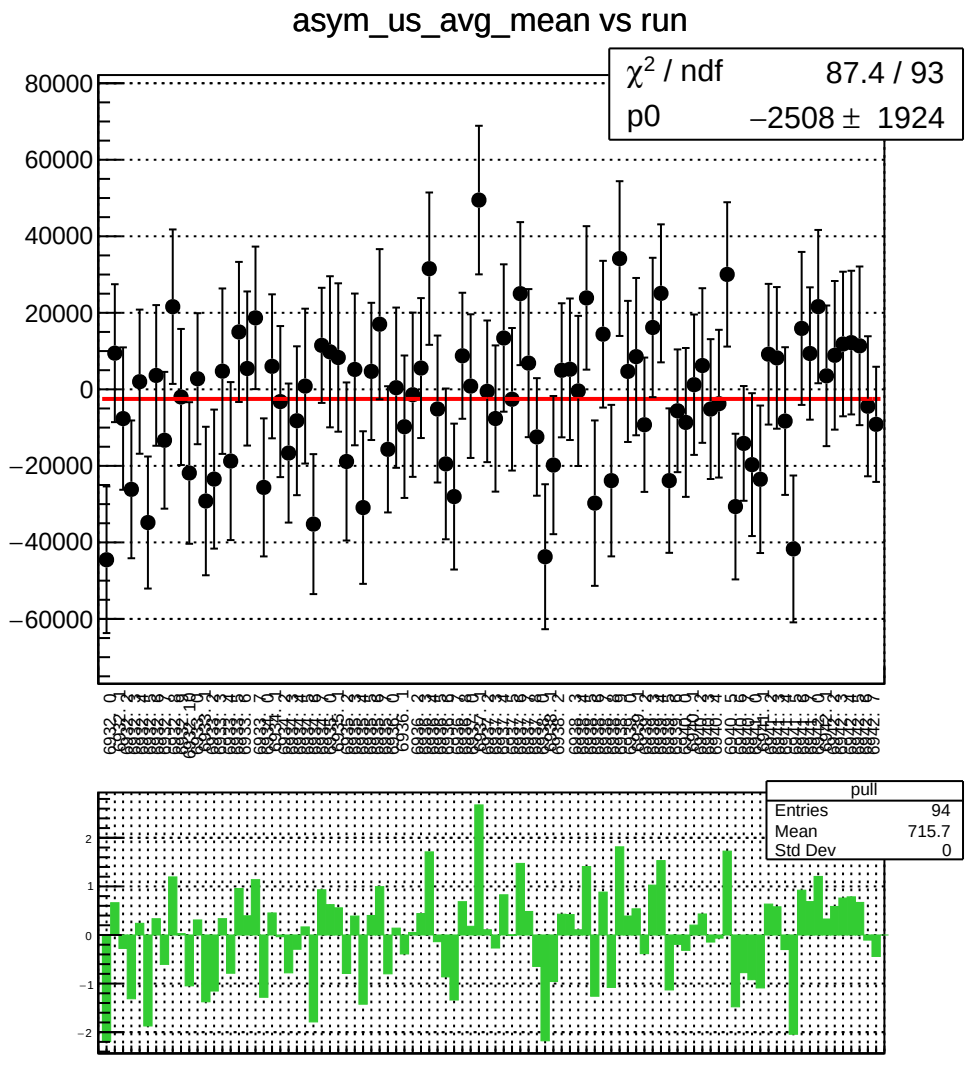

pull1D
Entries 94
Mean −0.01623
Std Dev 1.006

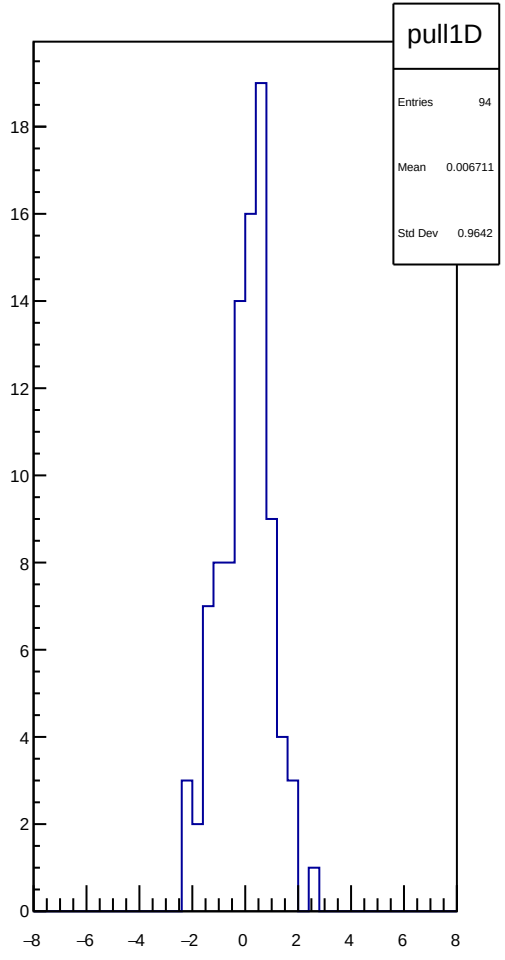

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 81.87 / 93
p0 779.7 ± 0.5871
805
800
795
790
785
780
775
770
765
760

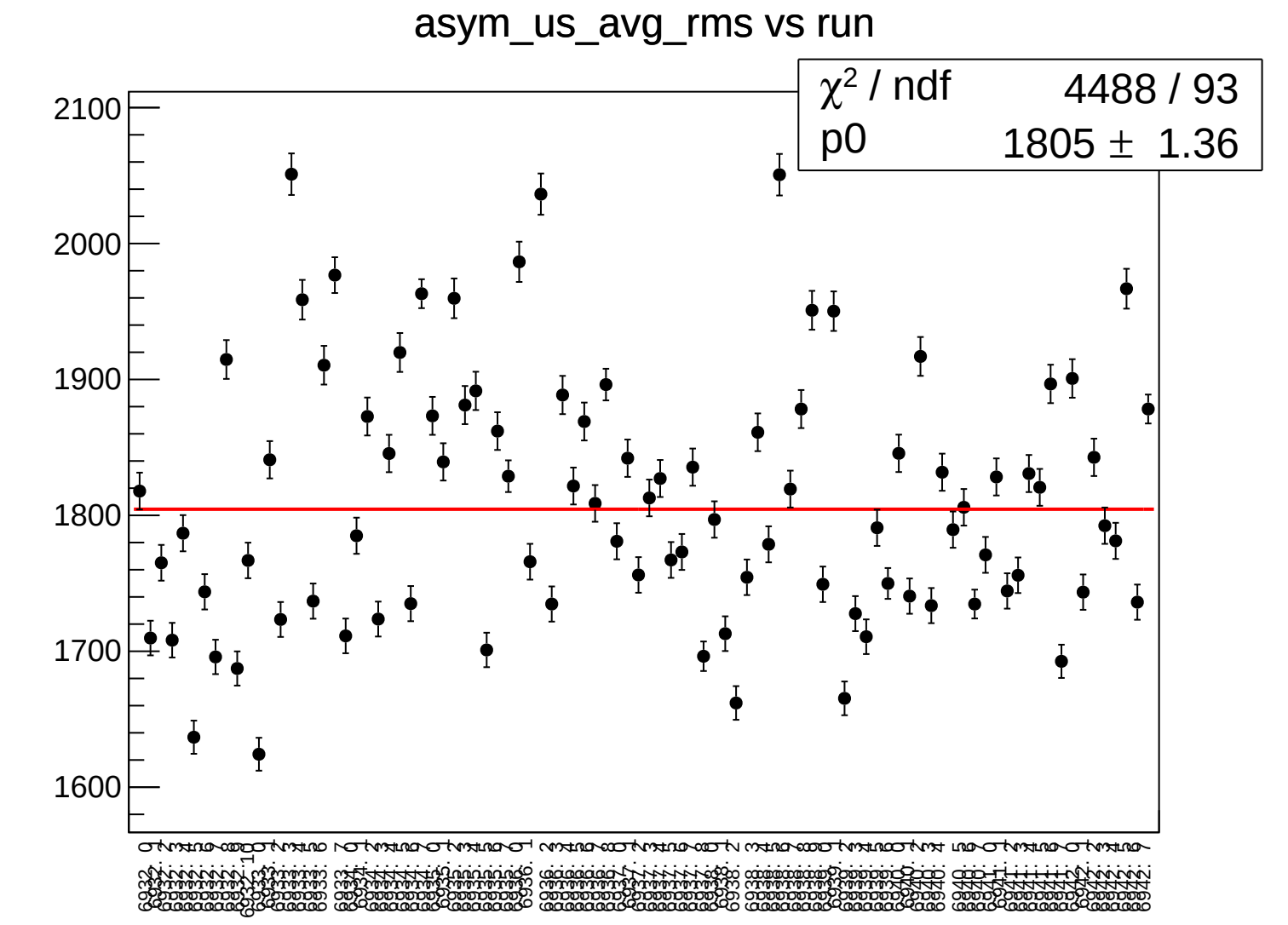

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.3 / 93
p0 1940 ± 1729
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 459.7
Std Dev 0
2
1
0
−1
−2

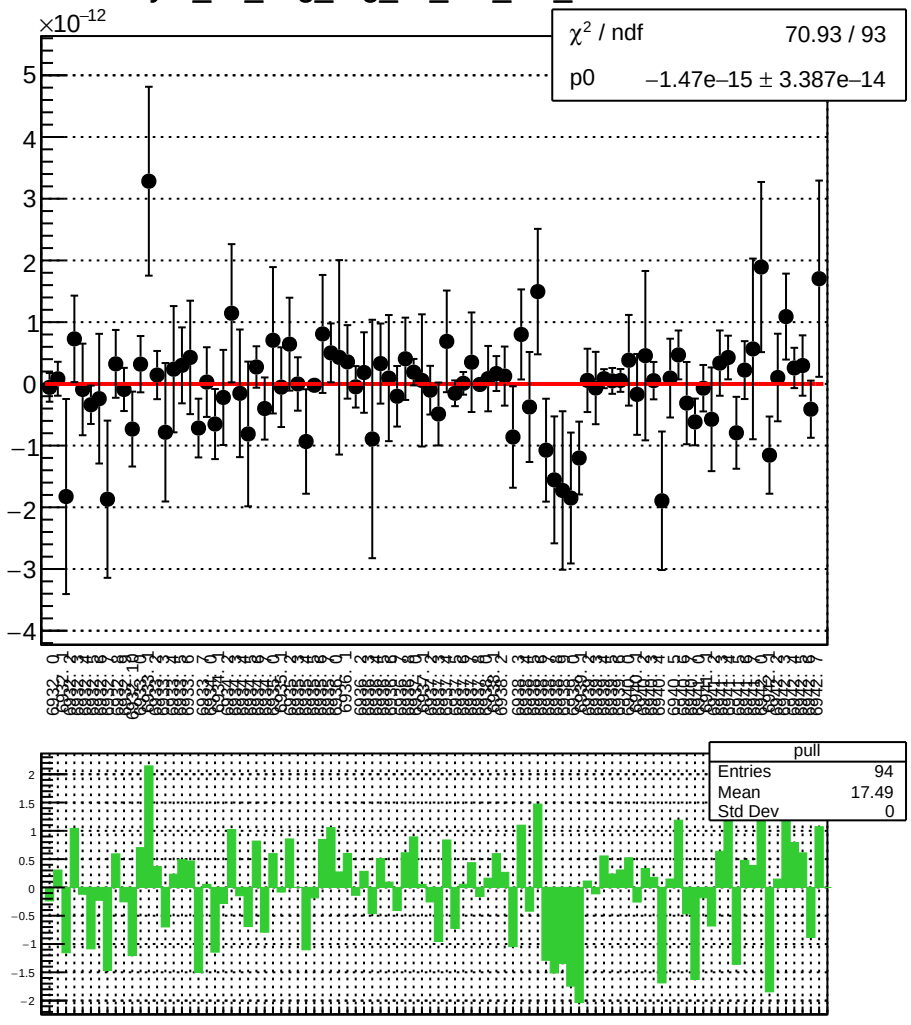

pull1D
Entries 94
Mean −0.007693
Std Dev 0.9581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

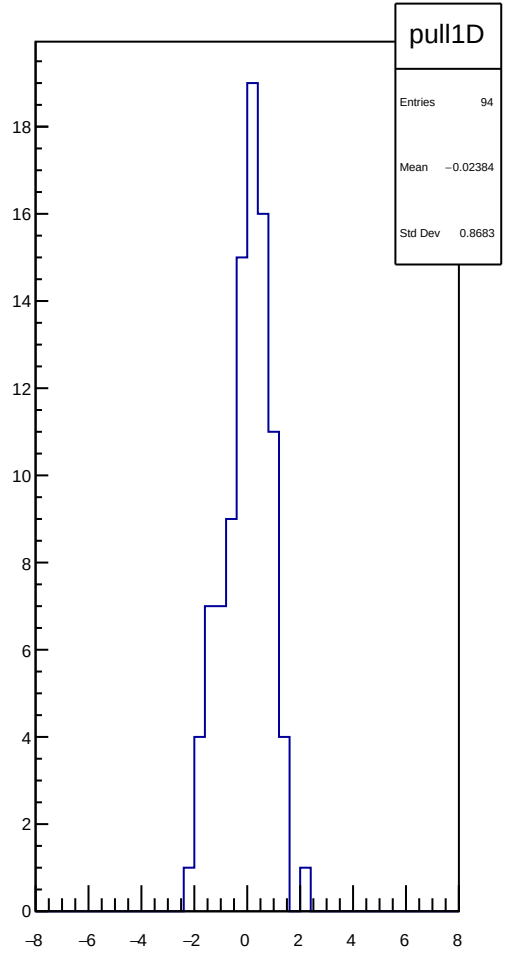

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 5668 / 93
p0 1621 ± 1.222
1900
1800
1700
1600
1500
1400

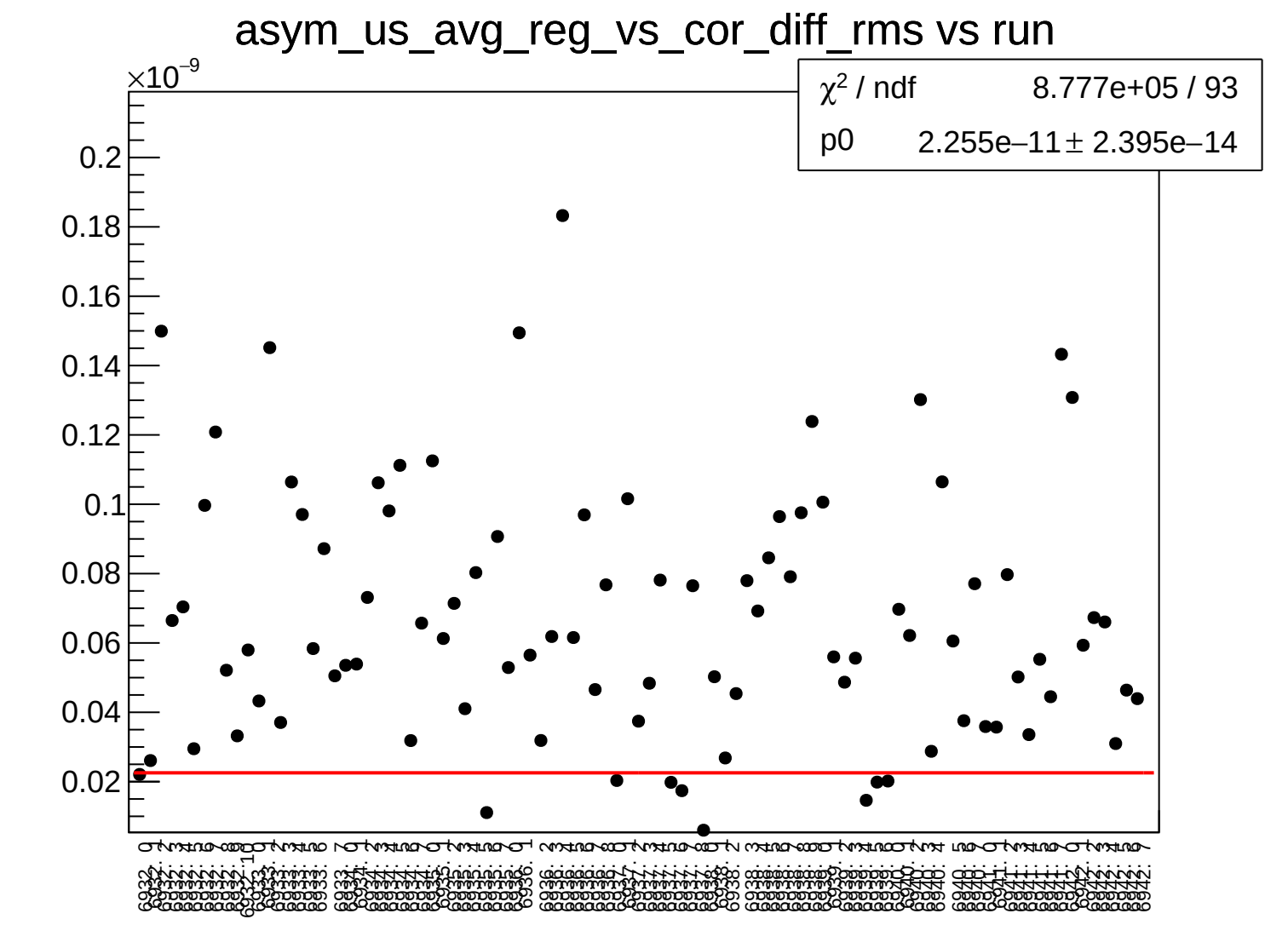

asym_us_avg_mean vs run
χ² / ndf 87.4 / 93
p0 −2508 ± 1924
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 715.7
Std Dev 0
2
1
0
−1
−2

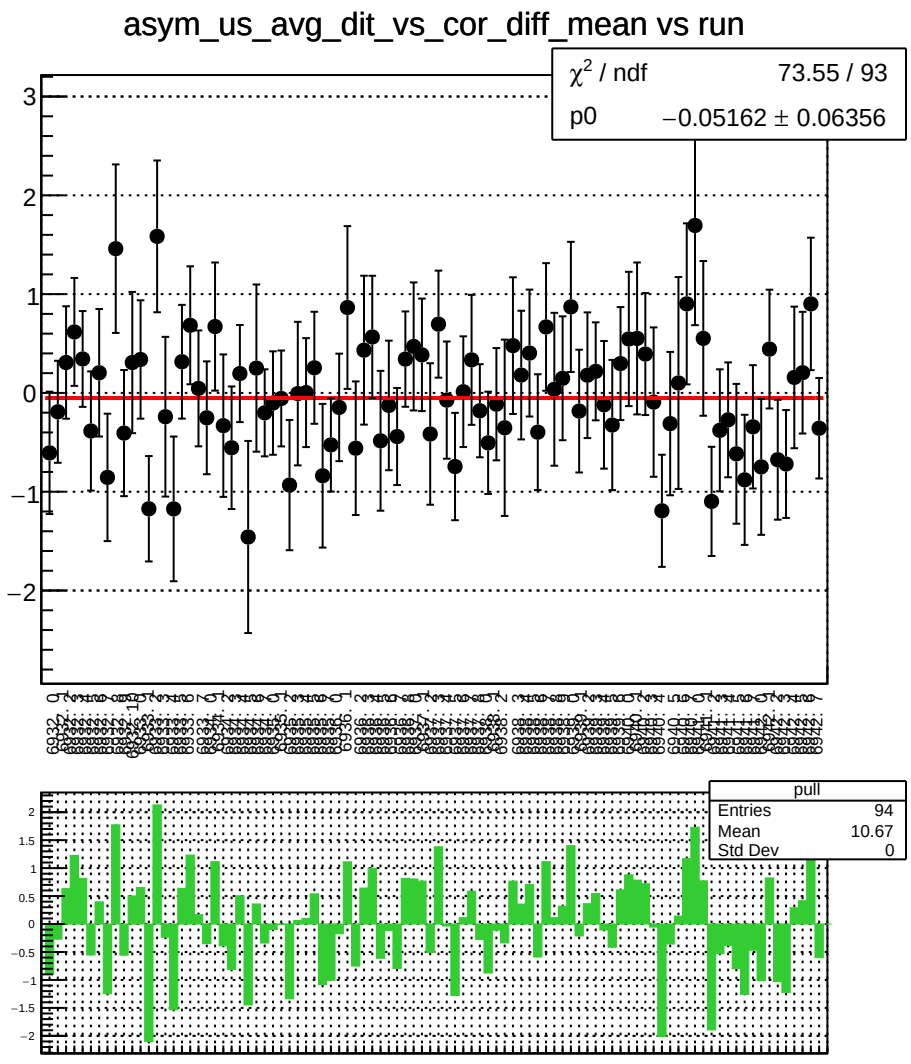

pull1D
Entries 94
Mean 0.006711
Std Dev 0.9642
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

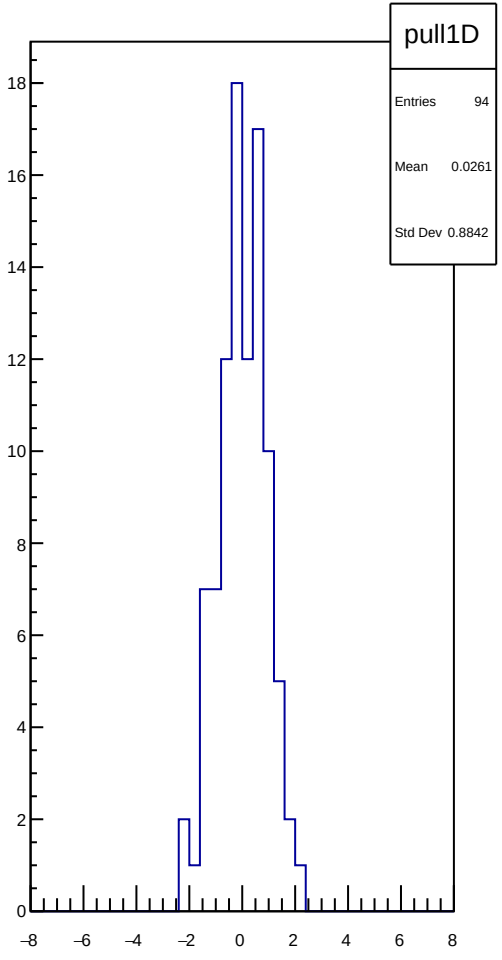

asym_us_avg_rms vs run
χ² / ndf 4488 / 93
p0 1805 ± 1.36
2100
2000
1900
1800
1700
1600

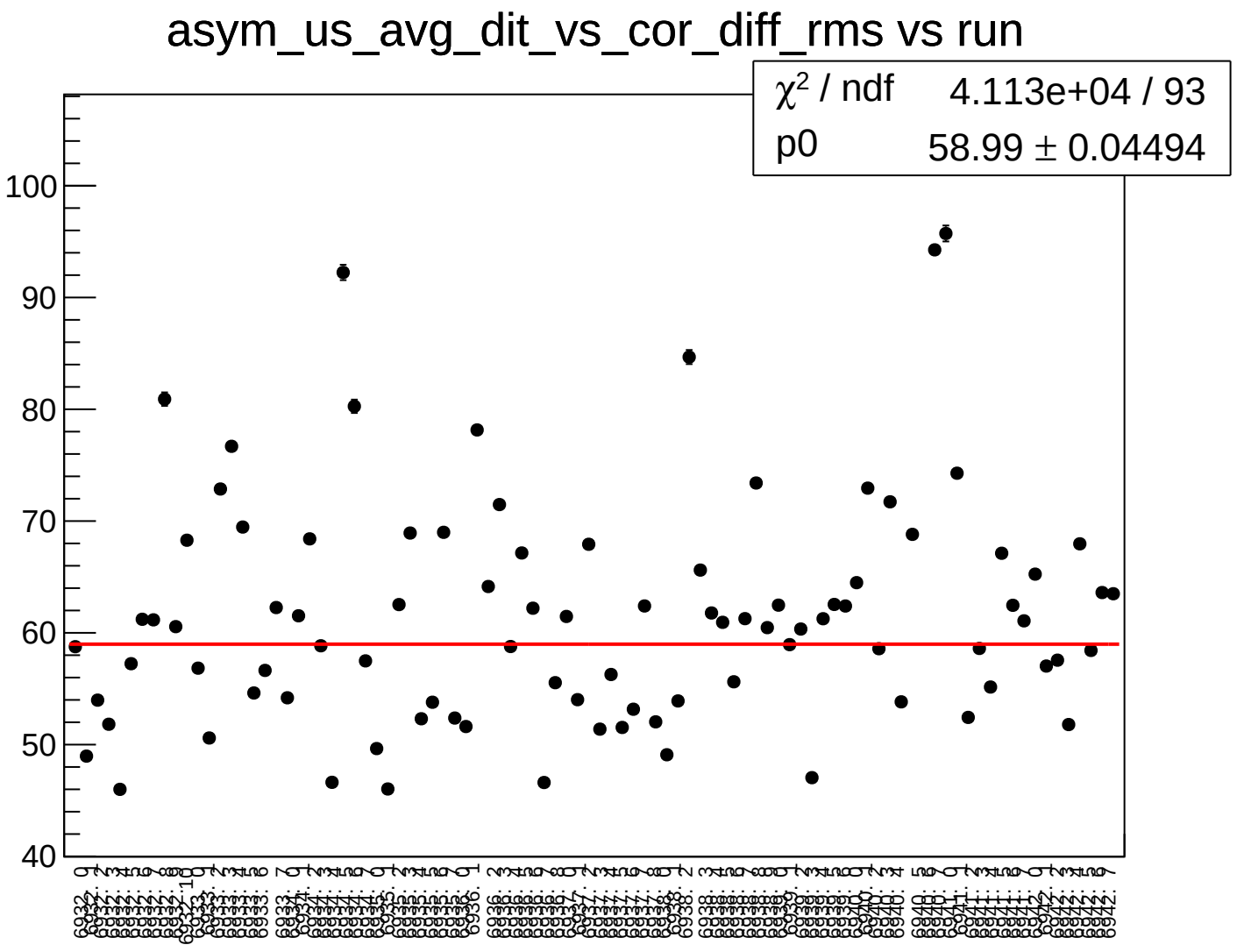

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.93 / 93
p0 −1.47e−15 ± 3.387e−14
pull
Entries 94
Mean 17.49
Std Dev 0

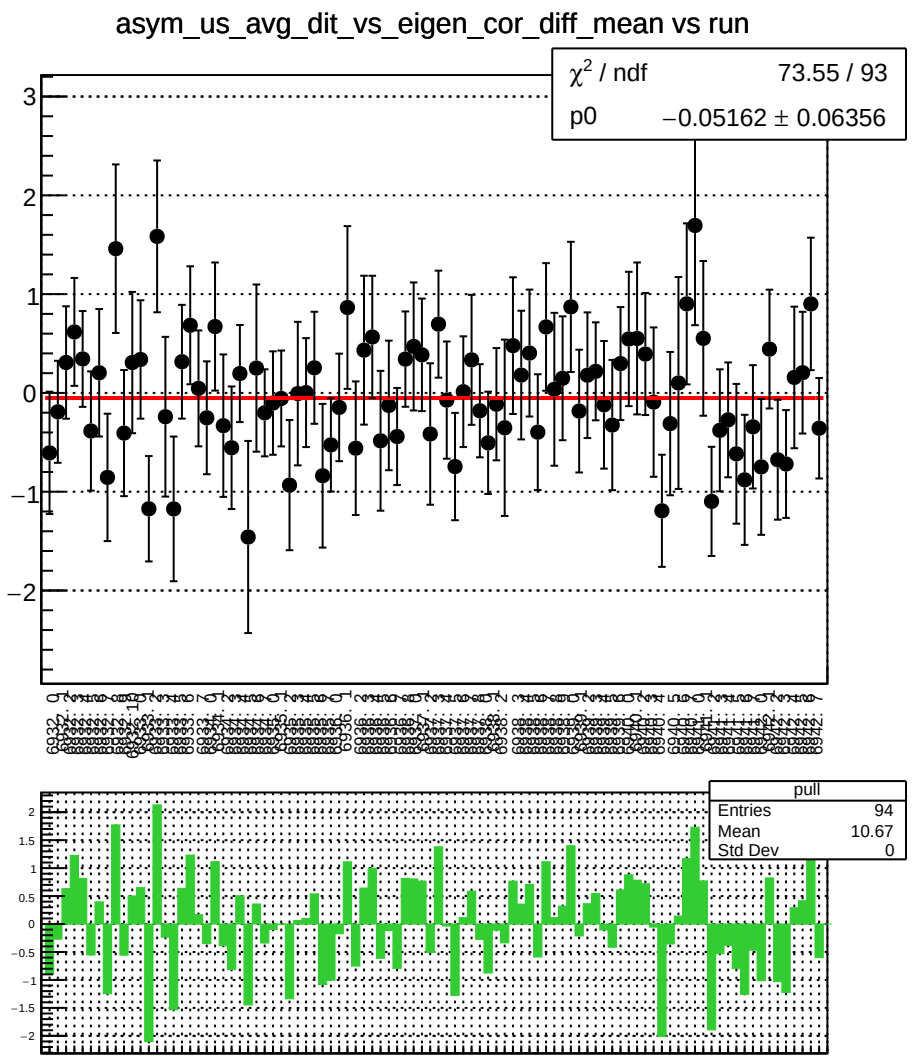

pull1D
Entries 94
Mean −0.02384
Std Dev 0.8683

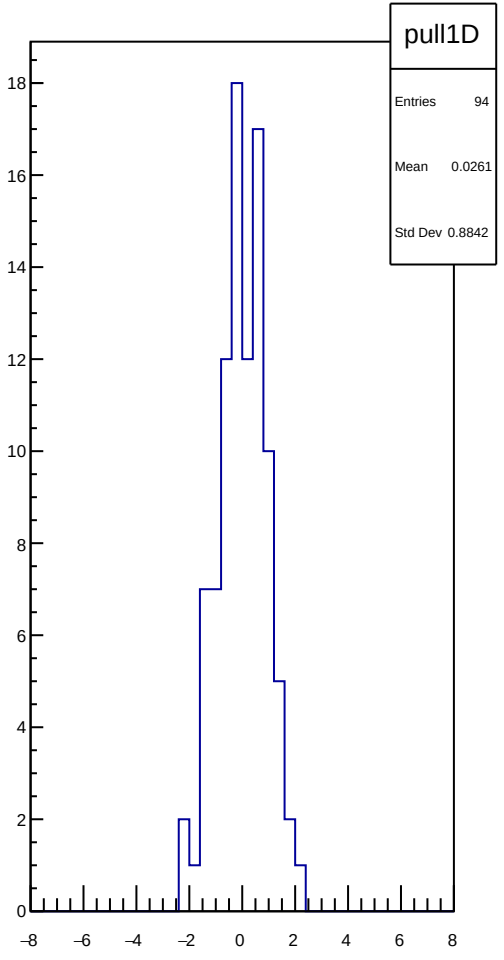

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.777e+05 / 93
p0 2.255e−11 ± 2.395e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

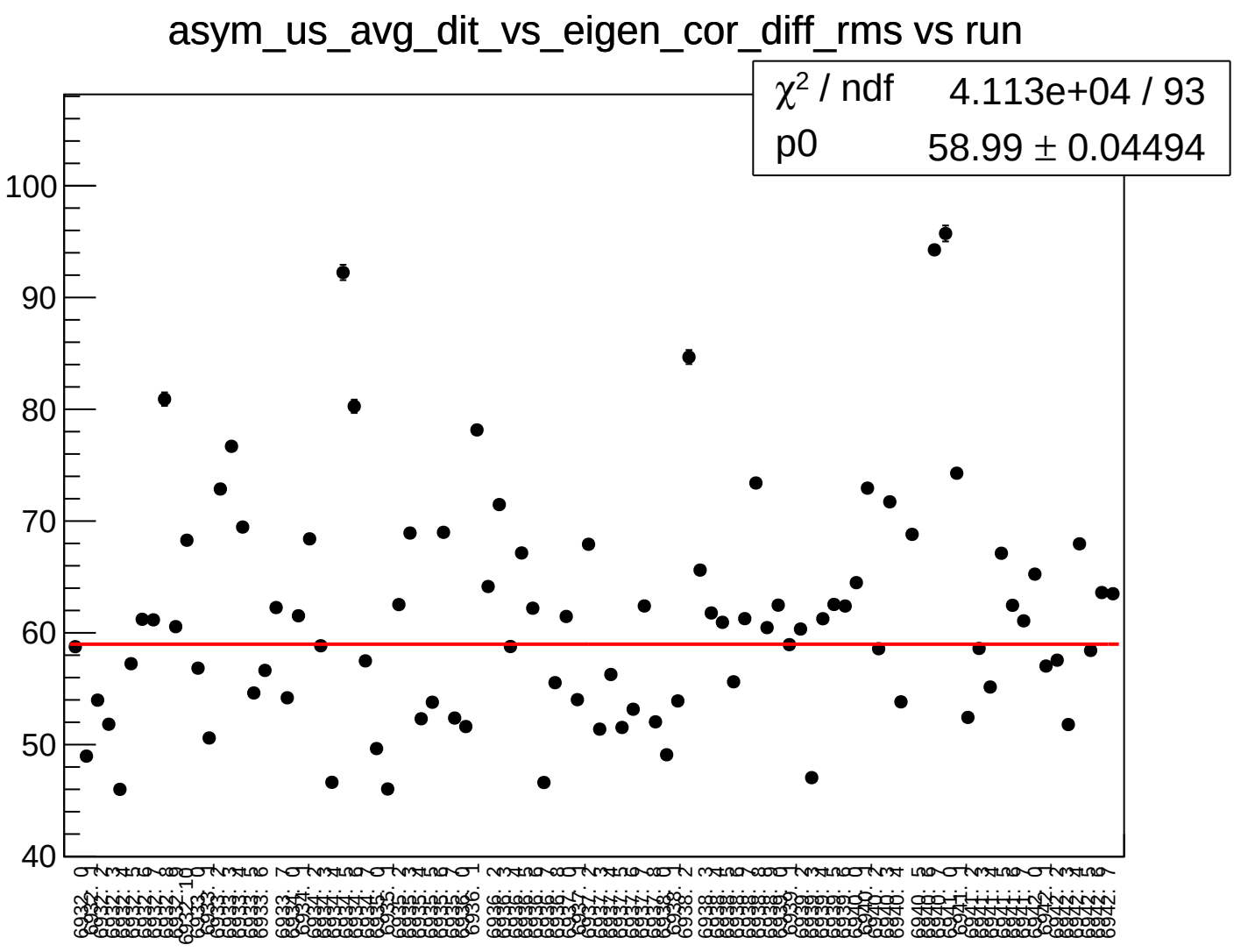

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.55 / 93
p0 −0.05162 ± 0.06356
pull
Entries 94
Mean 10.67
Std Dev 0

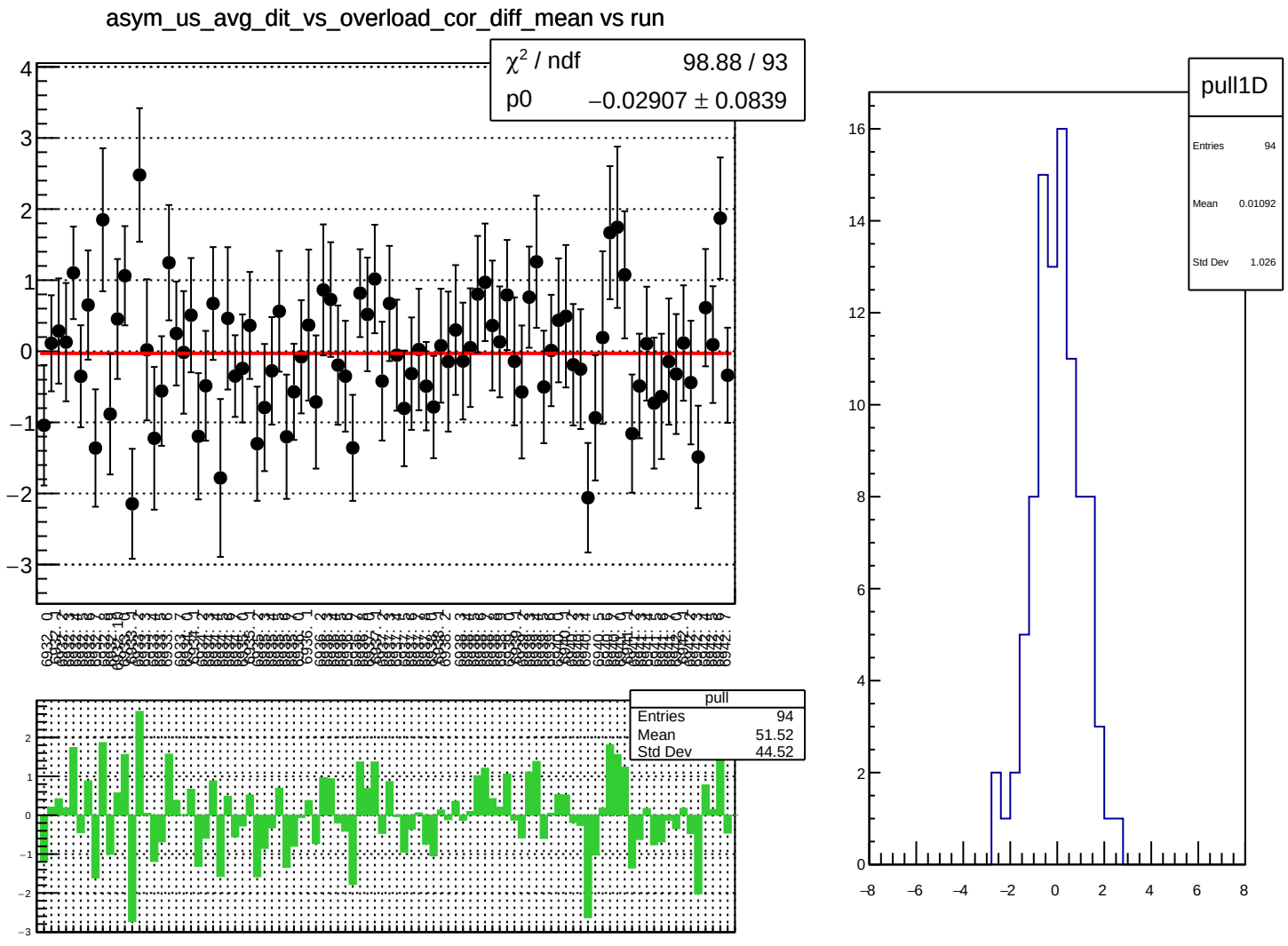

pull1D
Entries 94
Mean 0.0261
Std Dev 0.8842

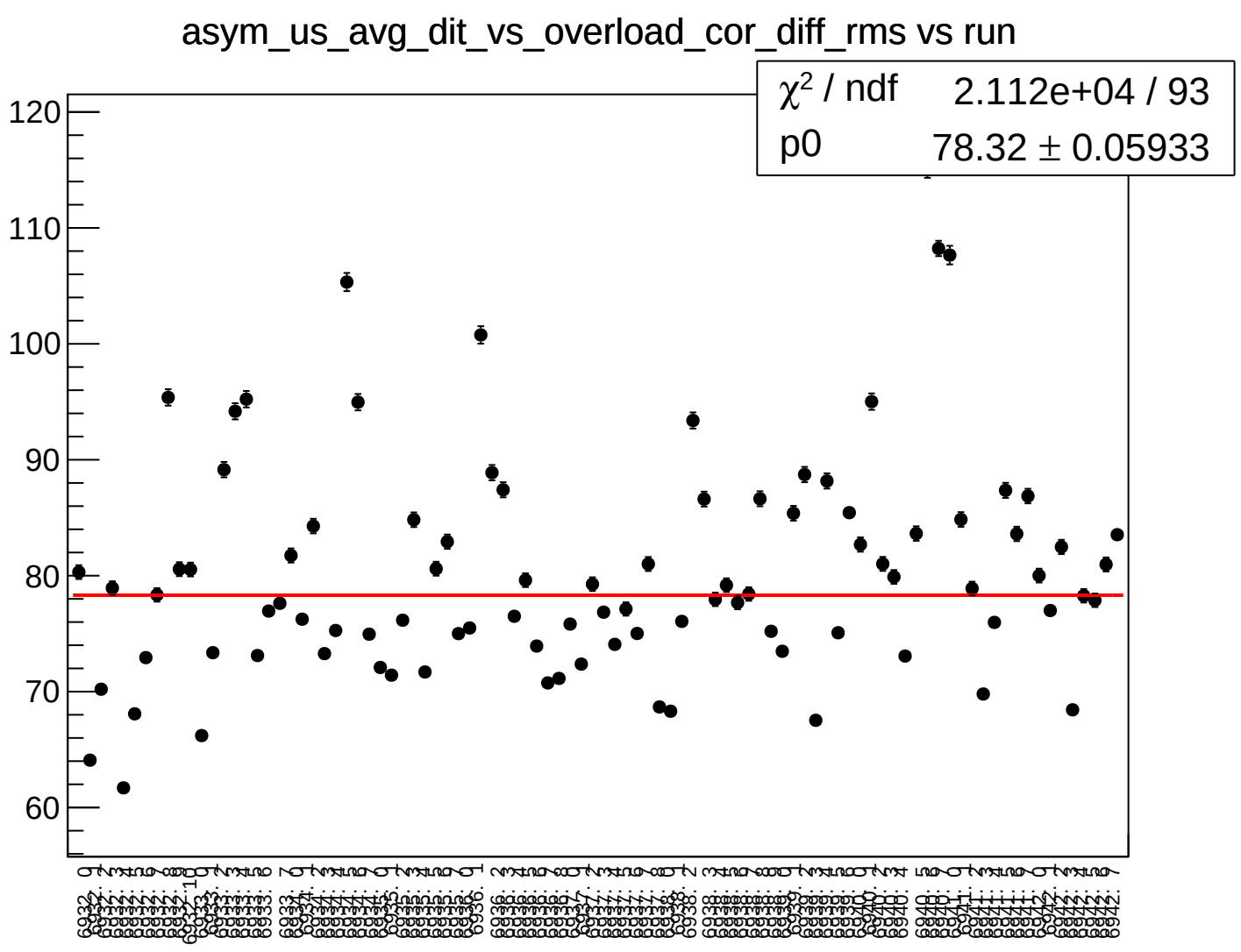

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 93
p0 58.99 ± 0.04494
100
90
80
70
60
50
40

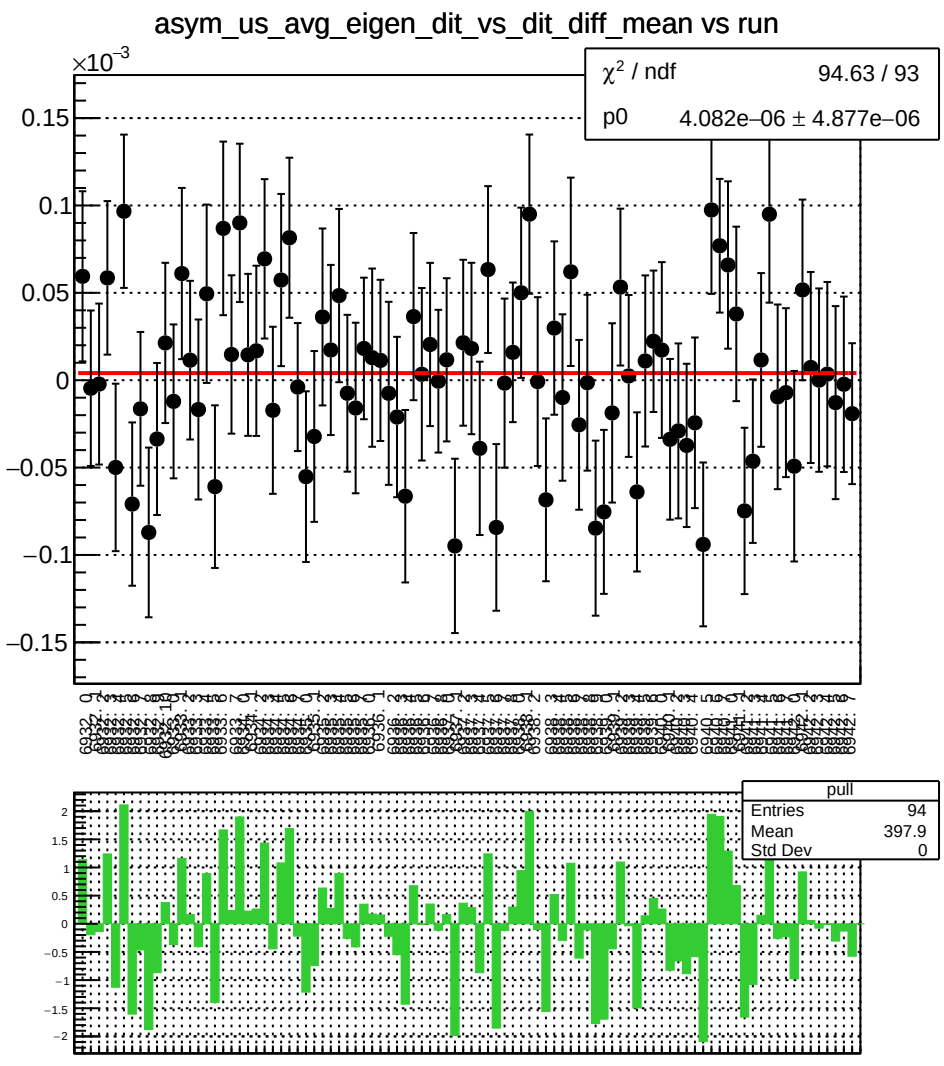

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.55 / 93
p0 −0.05162 ± 0.06356
pull
Entries 94
Mean 10.67
Std Dev 0

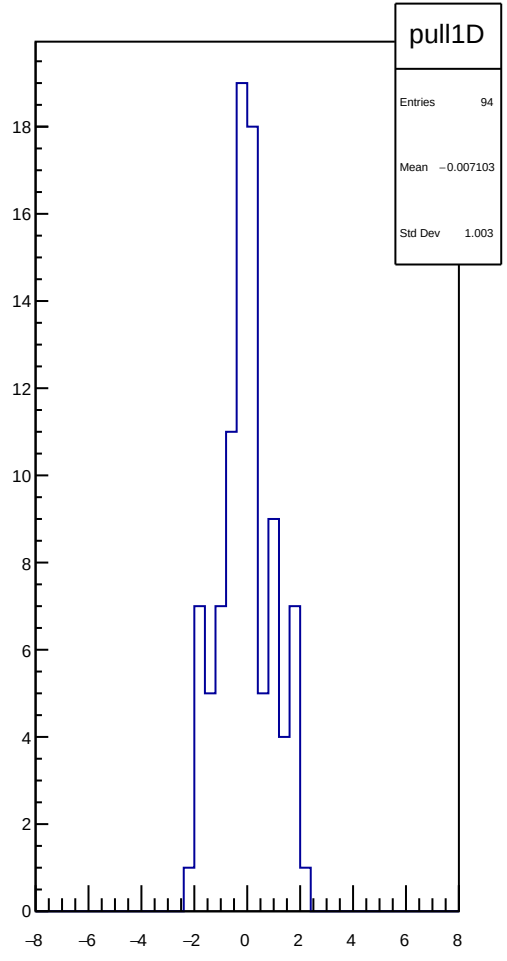

pull1D
Entries 94
Mean 0.0261
Std Dev 0.8842

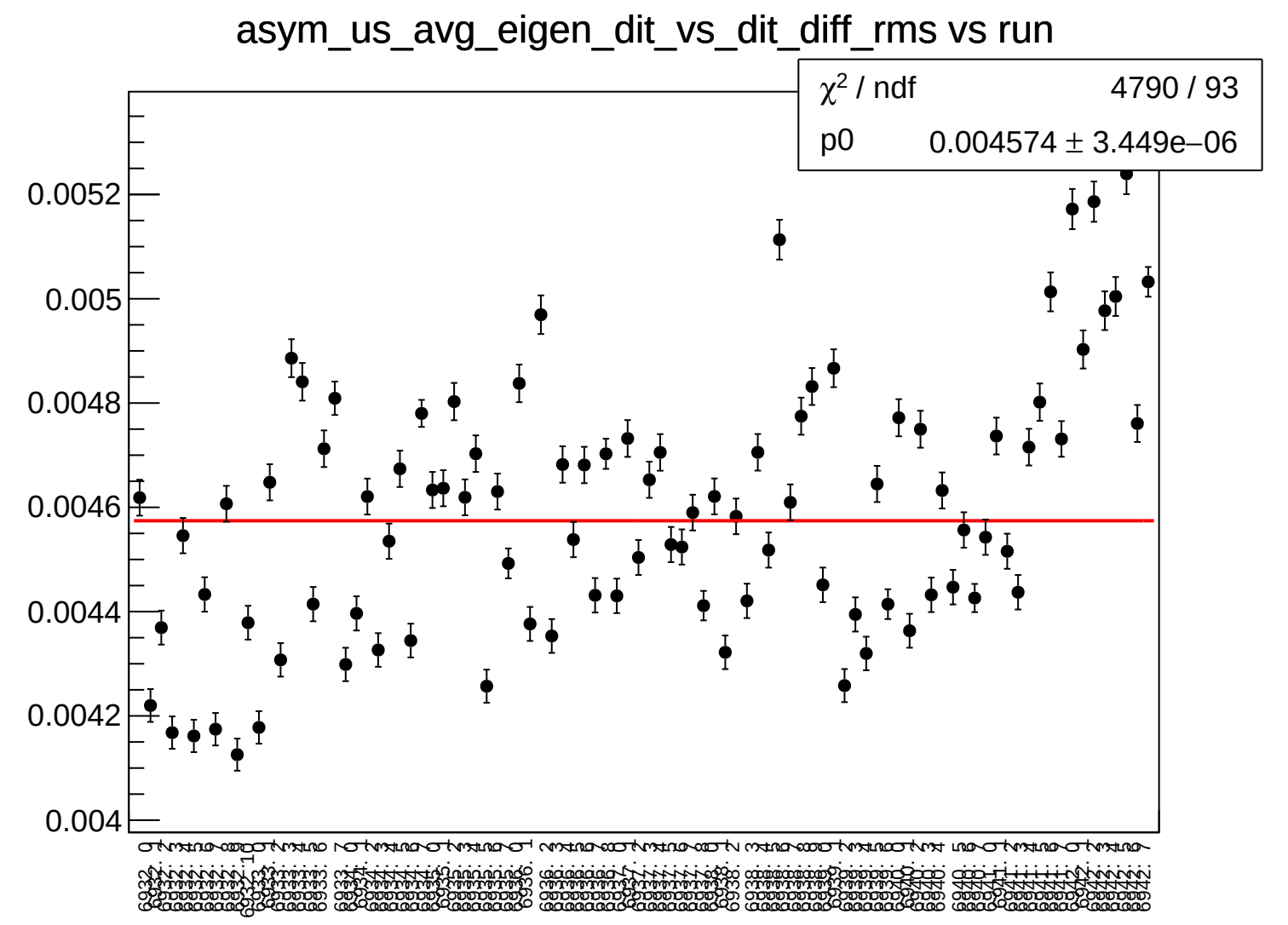

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 93
p0 58.99 ± 0.04494
100
90
80
70
60
50
40

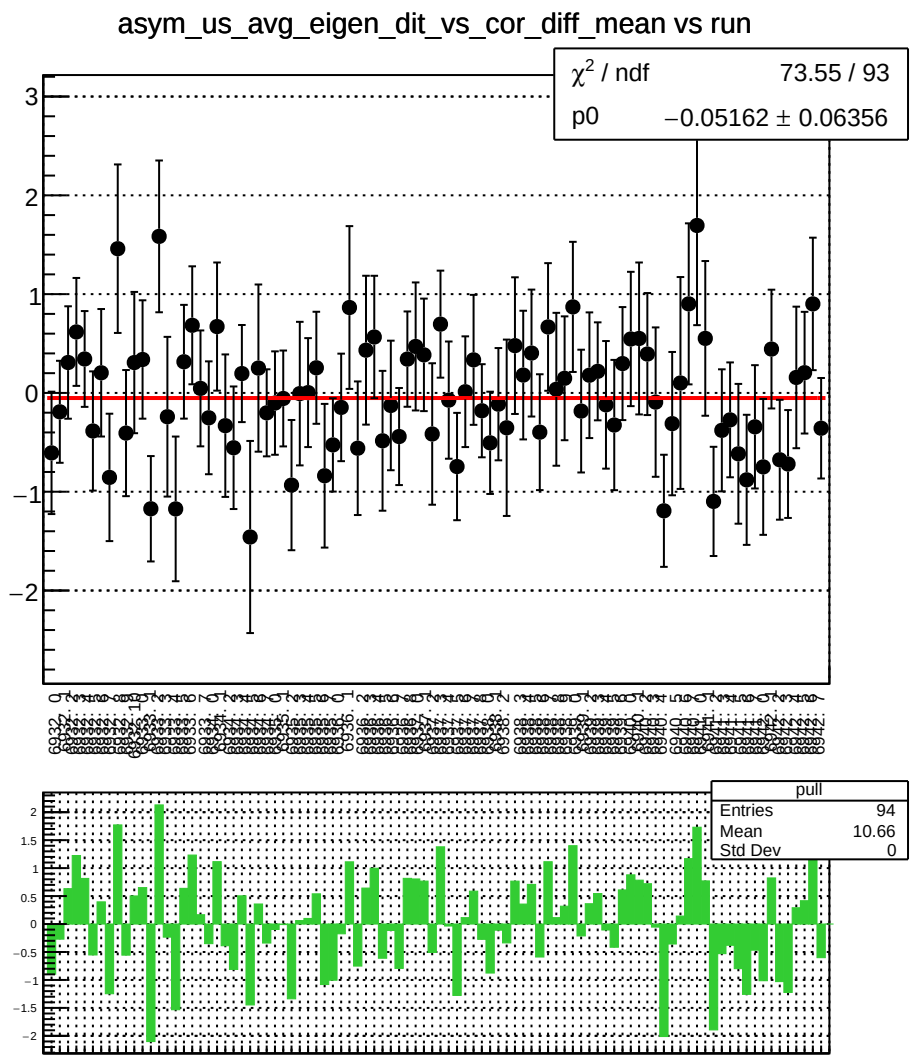

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.88 / 93
p0 −0.02907 ± 0.0839
pull
Entries 94
Mean 51.52
Std Dev 44.52
pull1D
Entries 94
Mean 0.01092
Std Dev 1.026

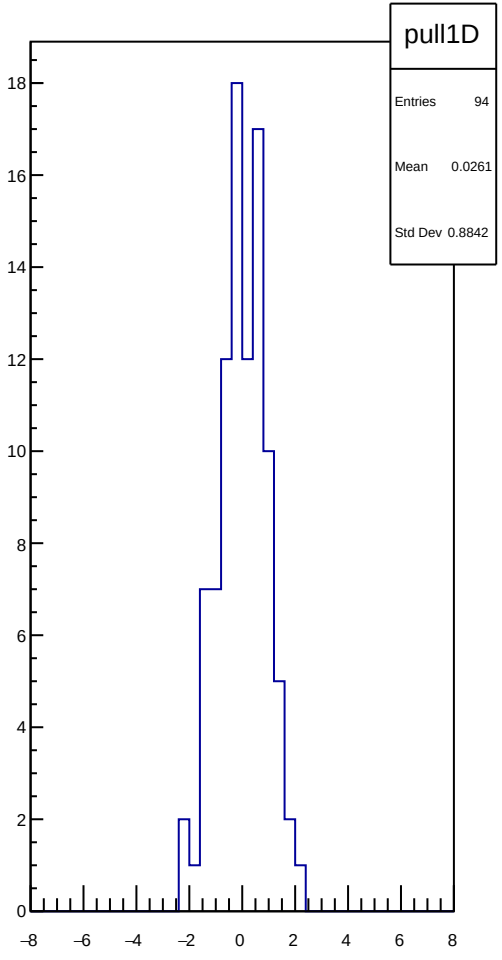

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.112e+04 / 93
p0 78.32 ± 0.05933
120
110
100
90
80
70
60

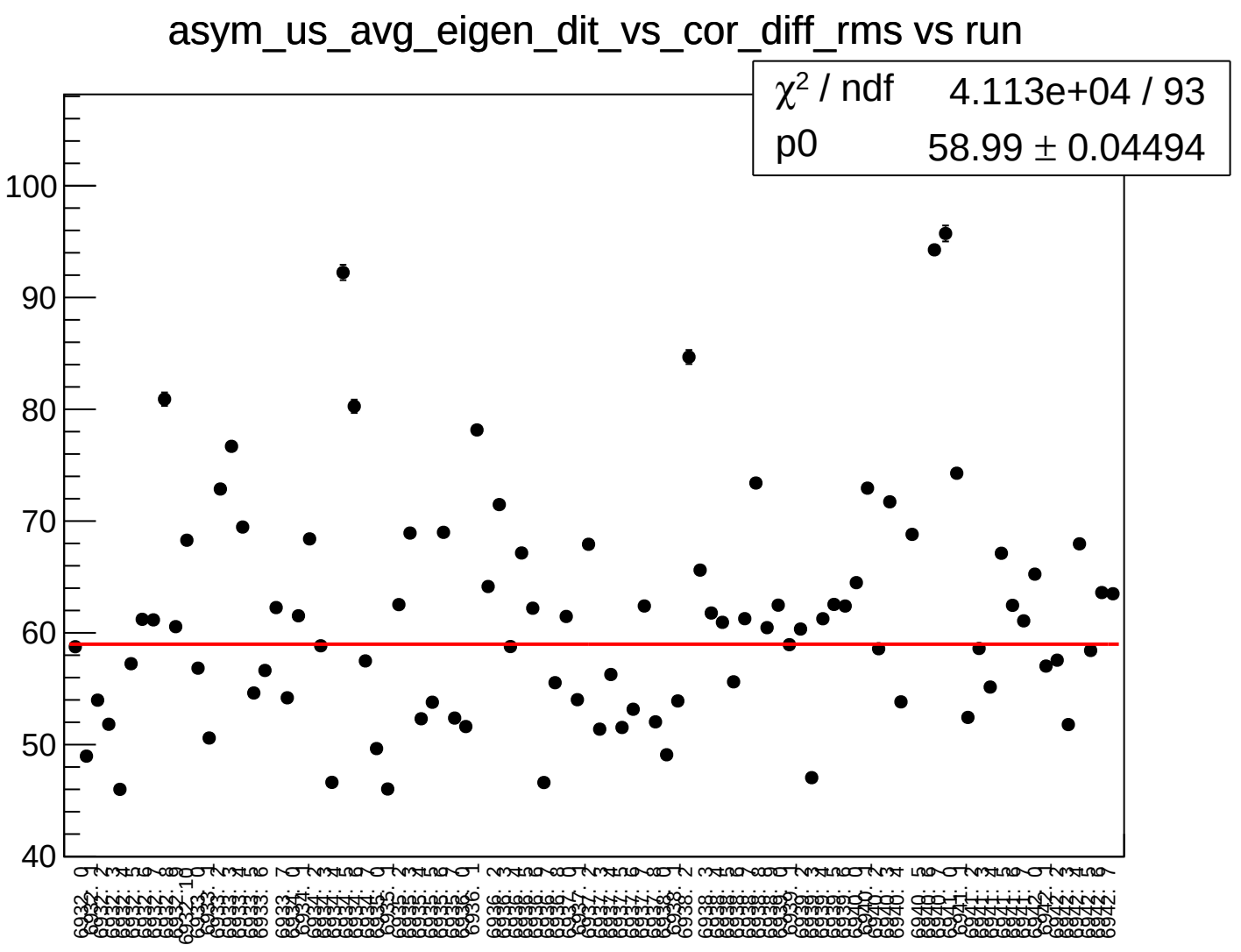

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.63 / 93
p0 4.082e−06 ± 4.877e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 397.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

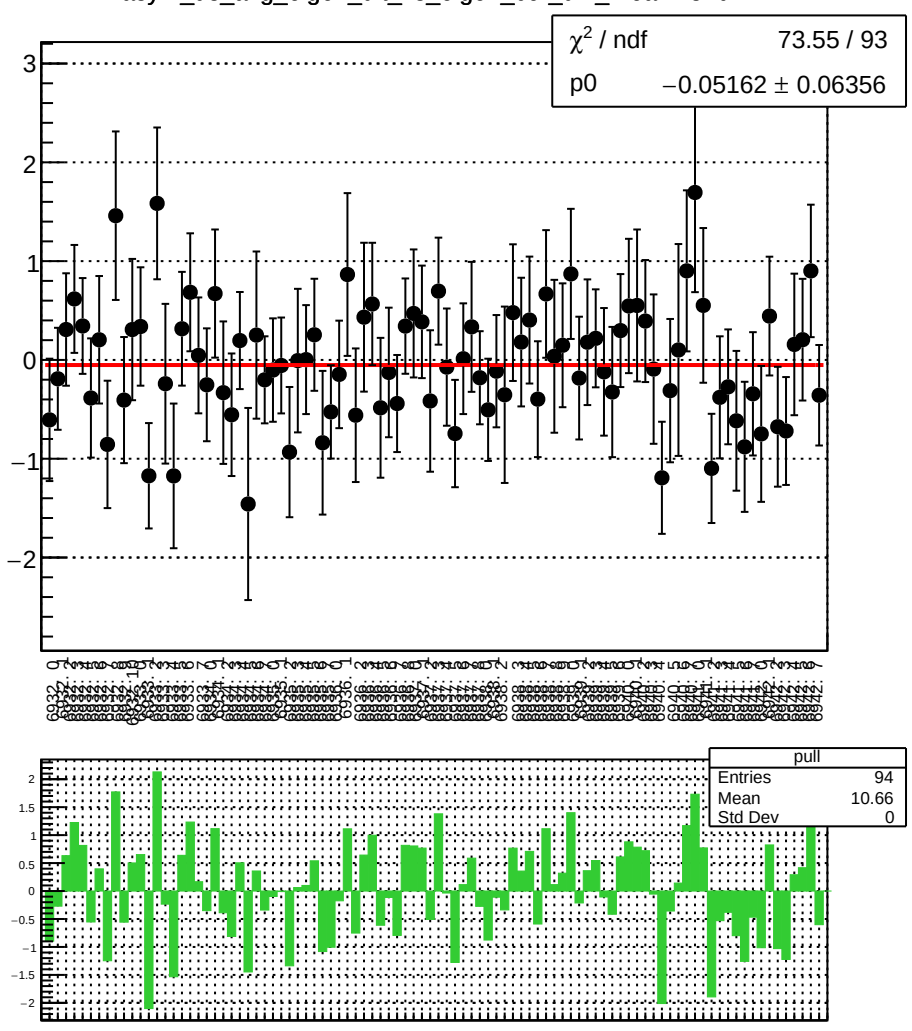

pull1D
Entries 94
Mean −0.007103
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

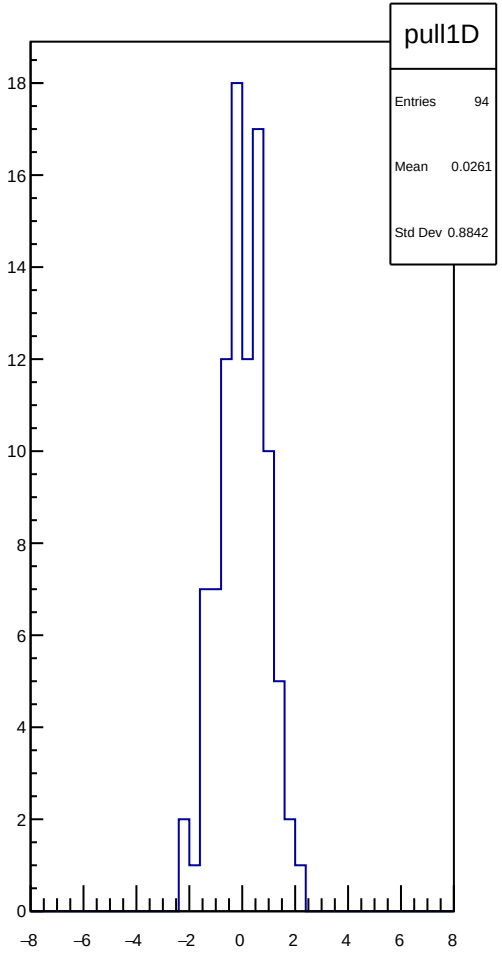

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4790 / 93
p0 0.004574 ± 3.449e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

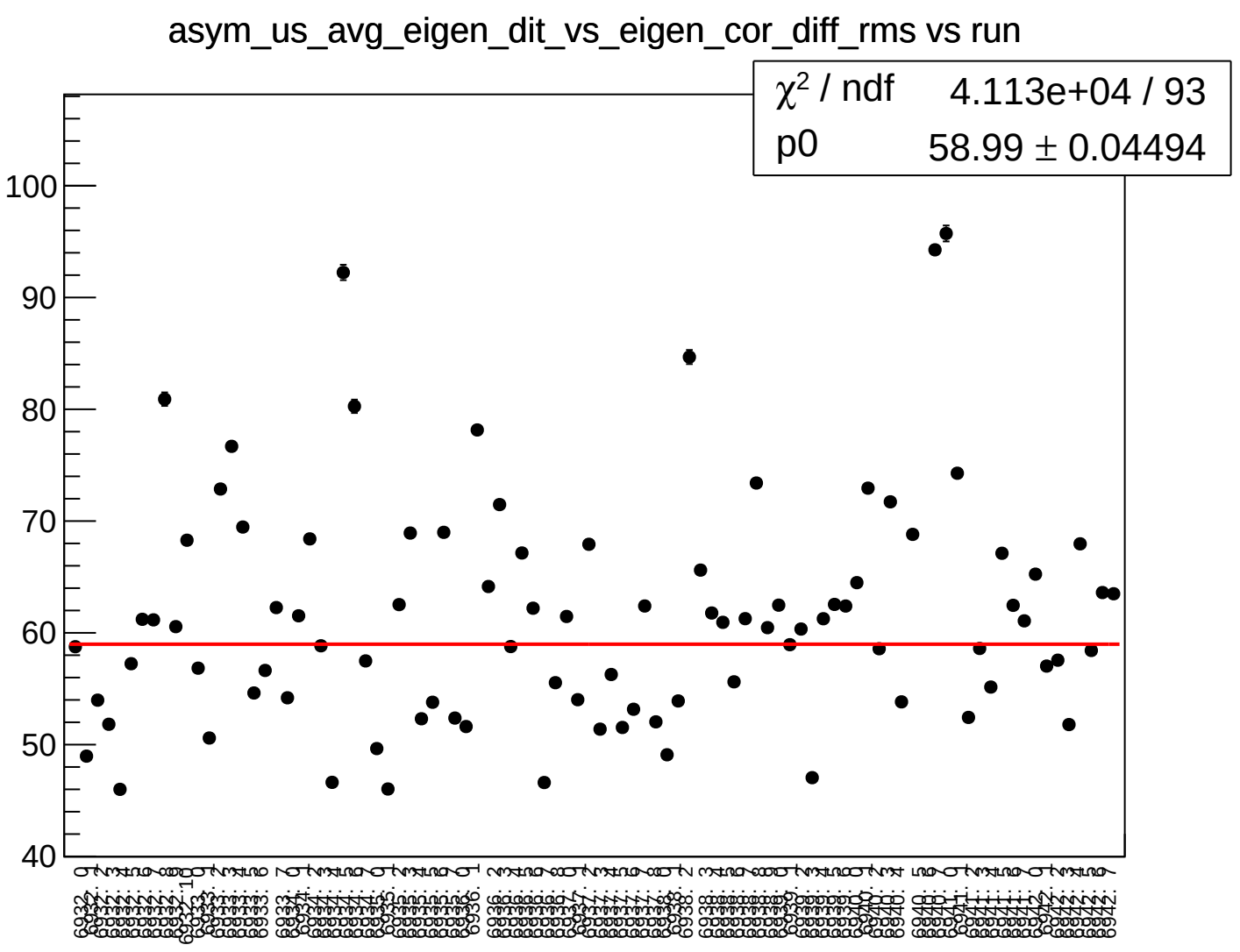

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.55 / 93
p0 −0.05162 ± 0.06356
pull
Entries 94
Mean 10.66
Std Dev 0

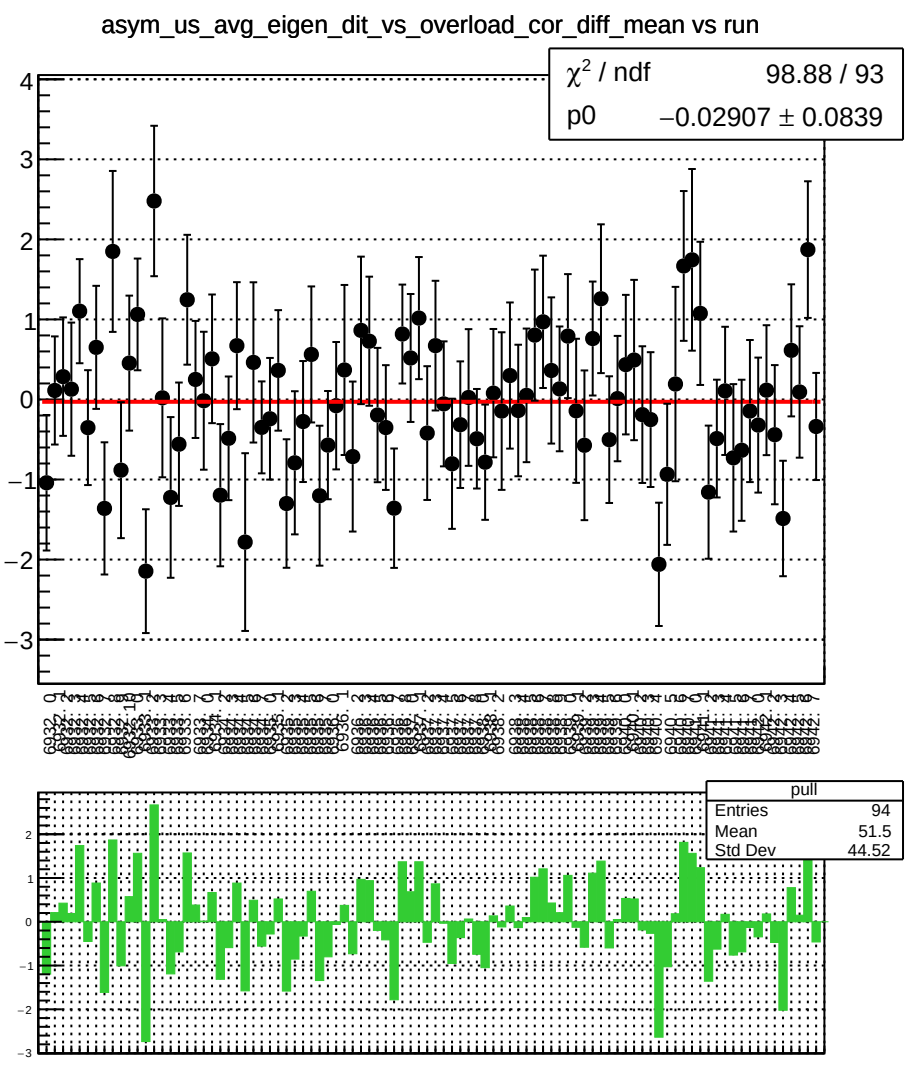

pull1D
Entries 94
Mean 0.0261
Std Dev 0.8842

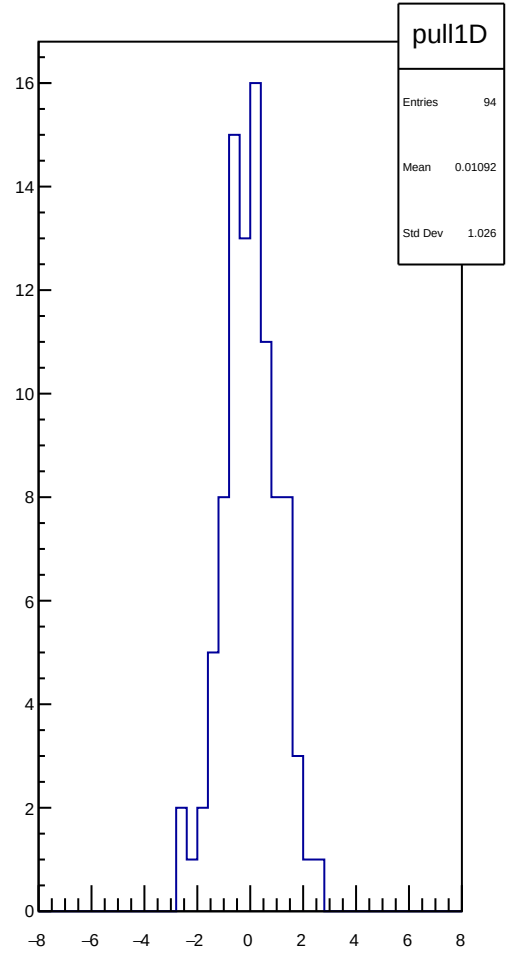

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 93
p0 58.99 ± 0.04494
100
90
80
70
60
50
40

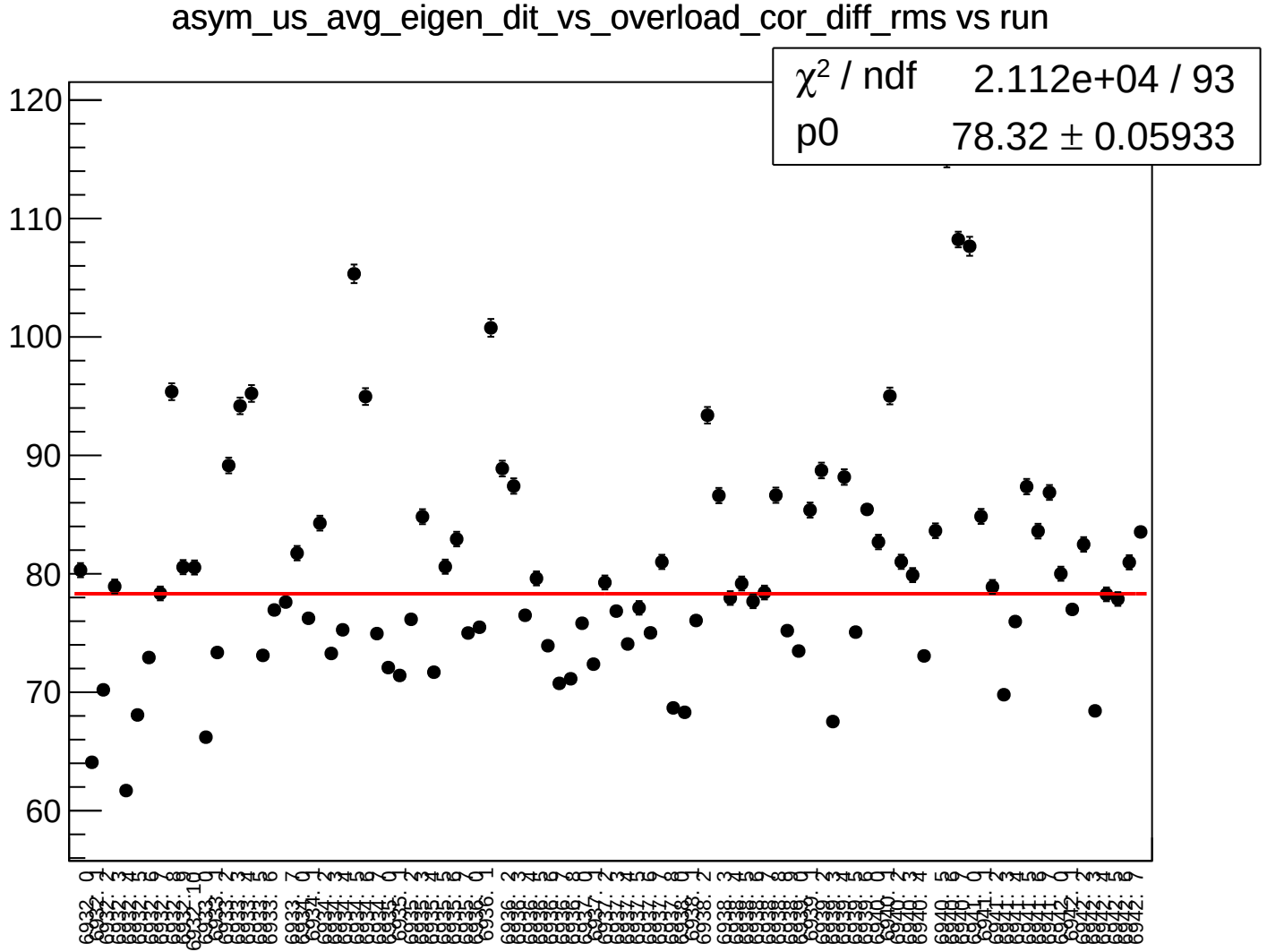

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.55 / 93
p0 −0.05162 ± 0.06356
pull
Entries 94
Mean 10.66
Std Dev 0

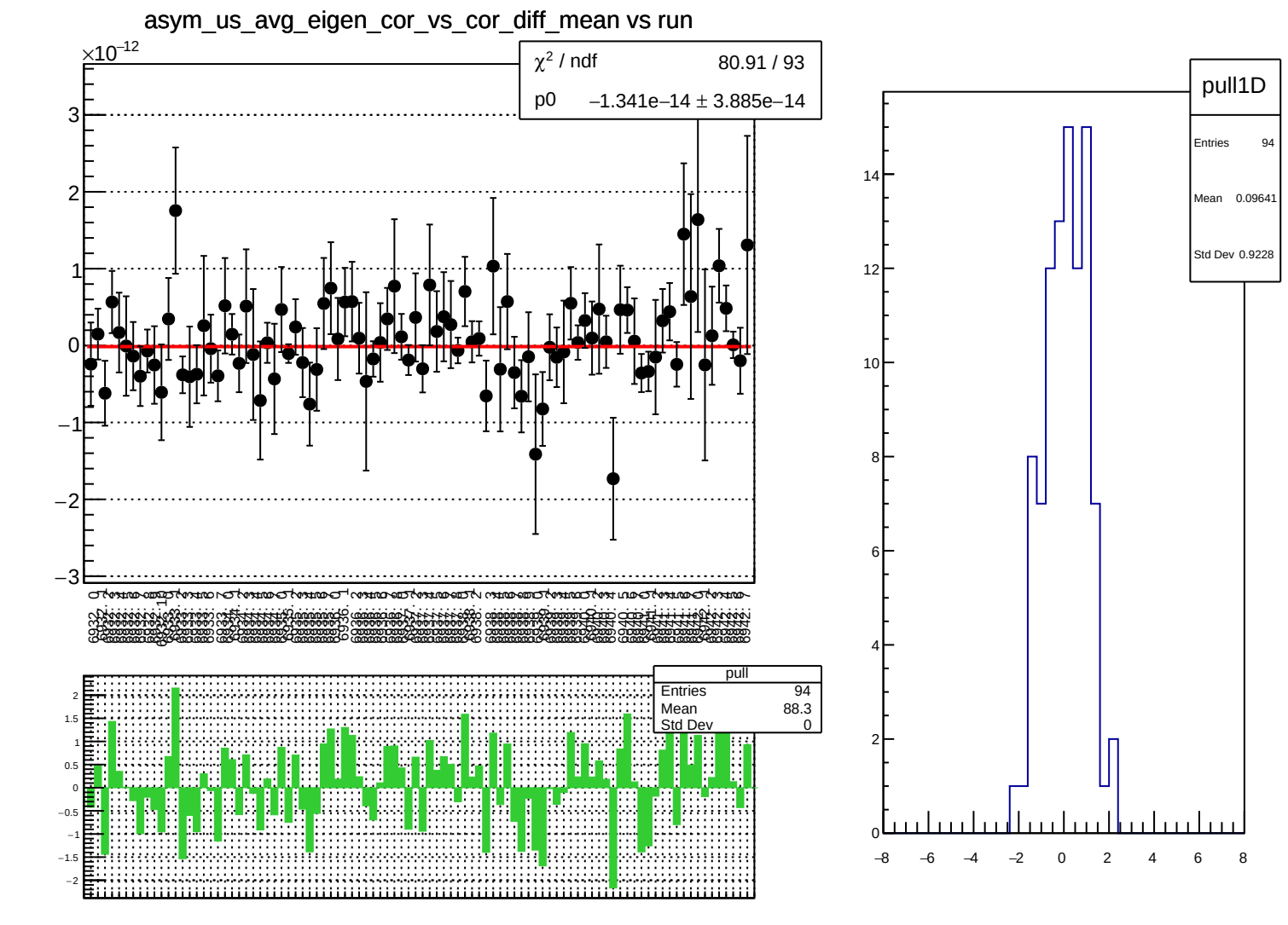

pull1D
Entries 94
Mean 0.0261
Std Dev 0.8842

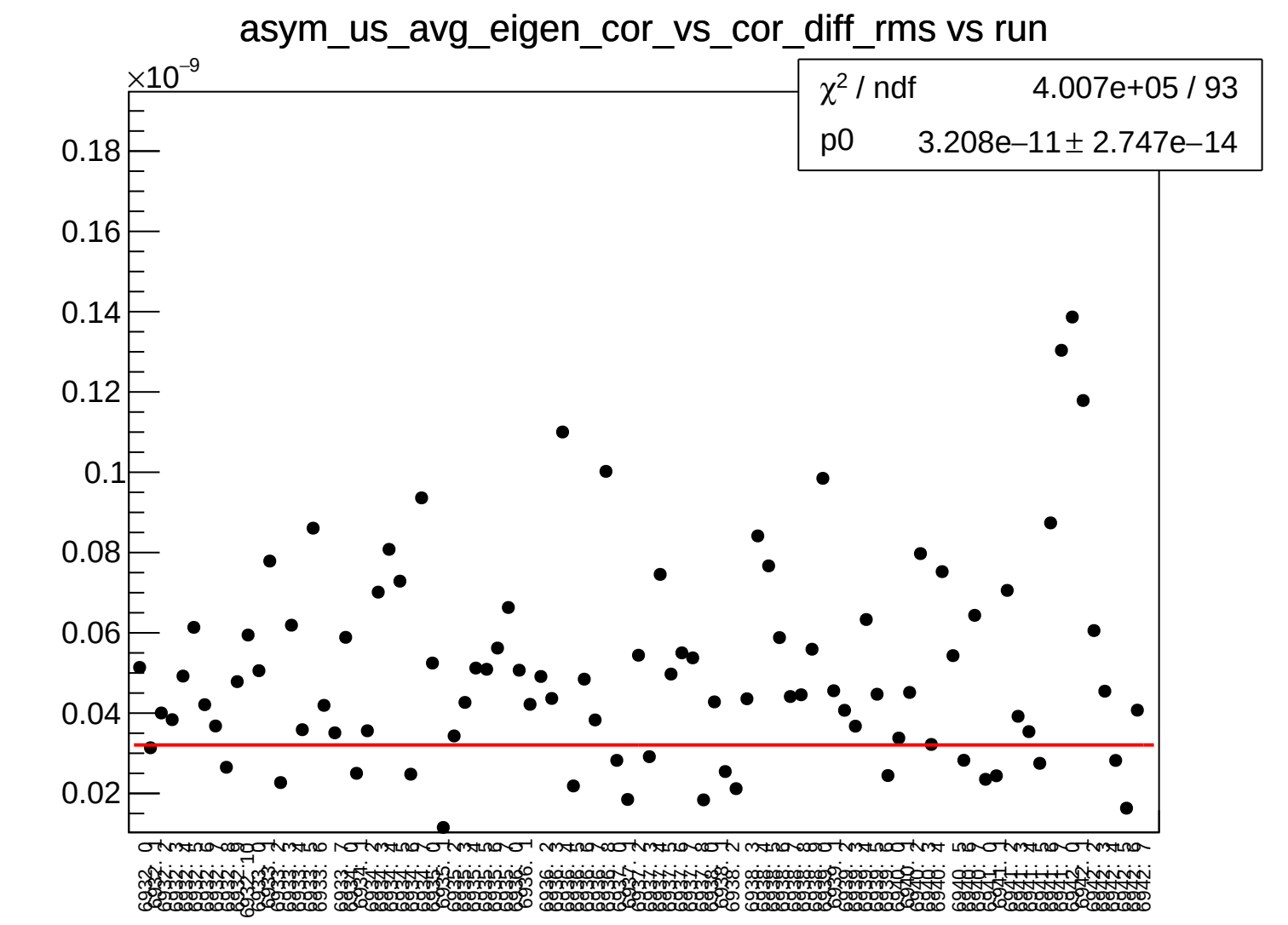

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.113e+04 / 93
p0 58.99 ± 0.04494
100
90
80
70
60
50
40

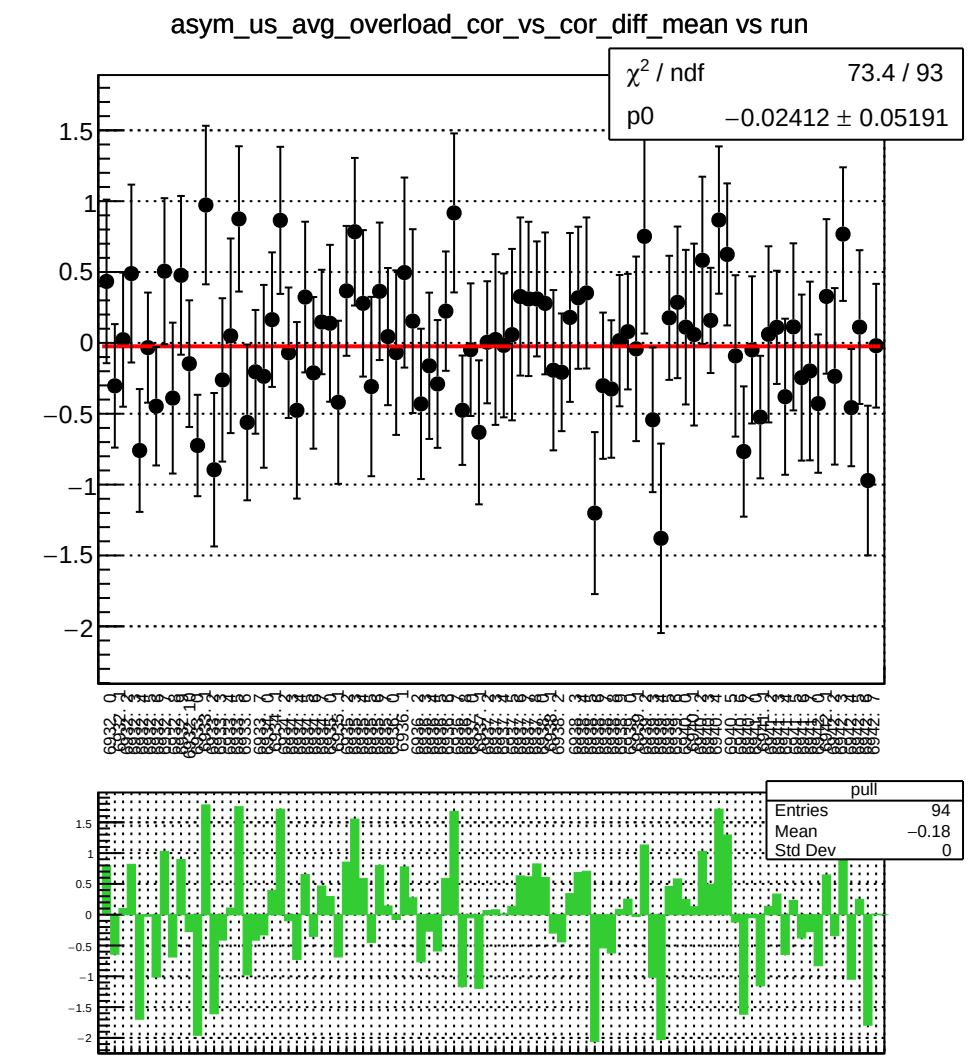

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.88 / 93
p0 −0.02907 ± 0.0839
pull
Entries 94
Mean 51.5
Std Dev 44.52

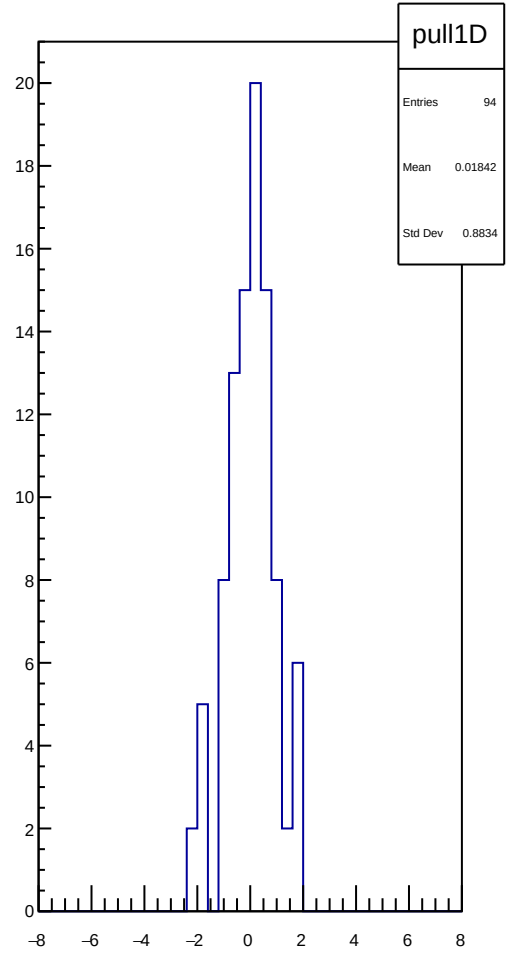

pull1D
Entries 94
Mean 0.01092
Std Dev 1.026

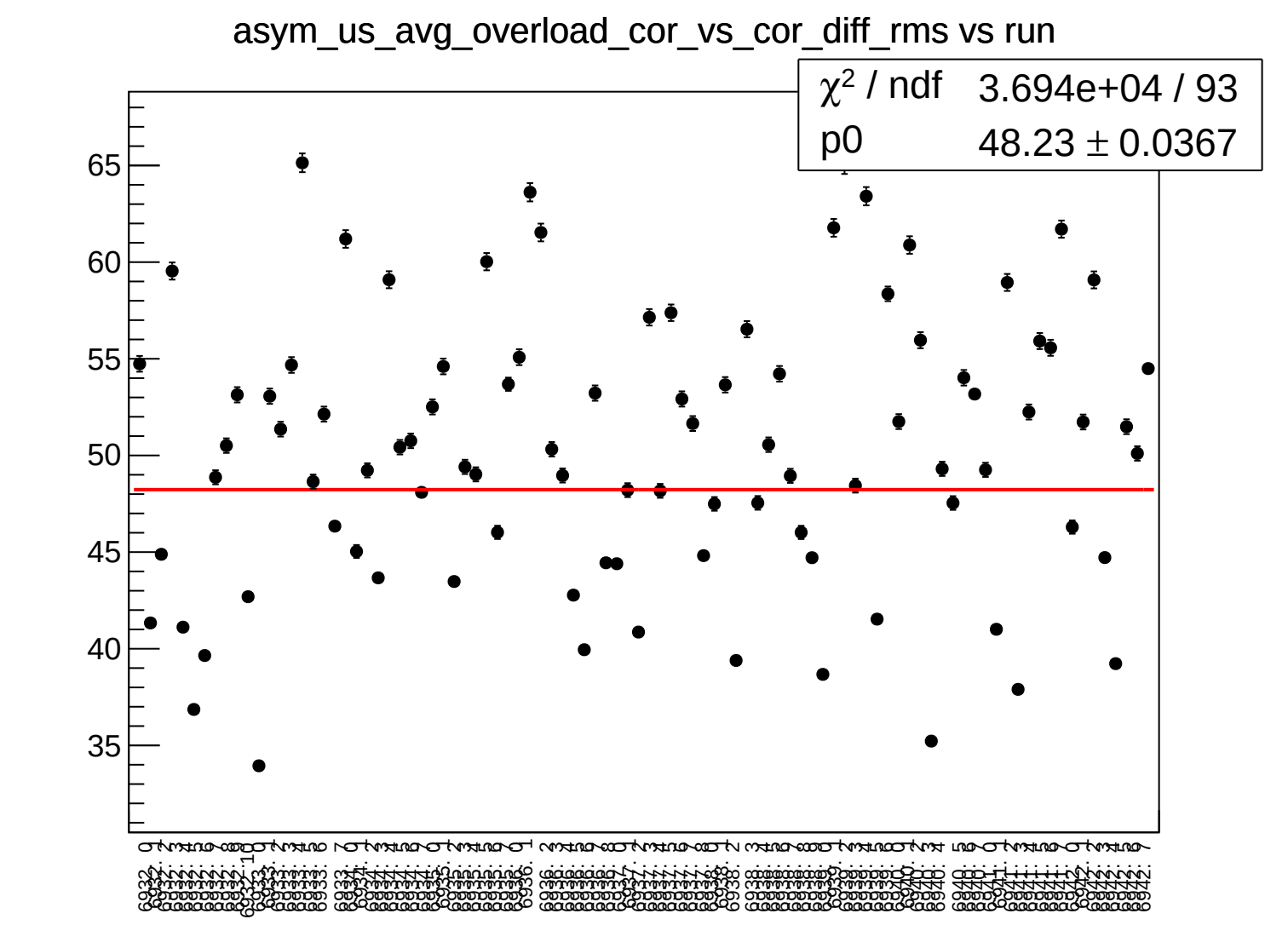

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.112e+04 / 93
p0 78.32 ± 0.05933
120
110
100
90
80
70
60

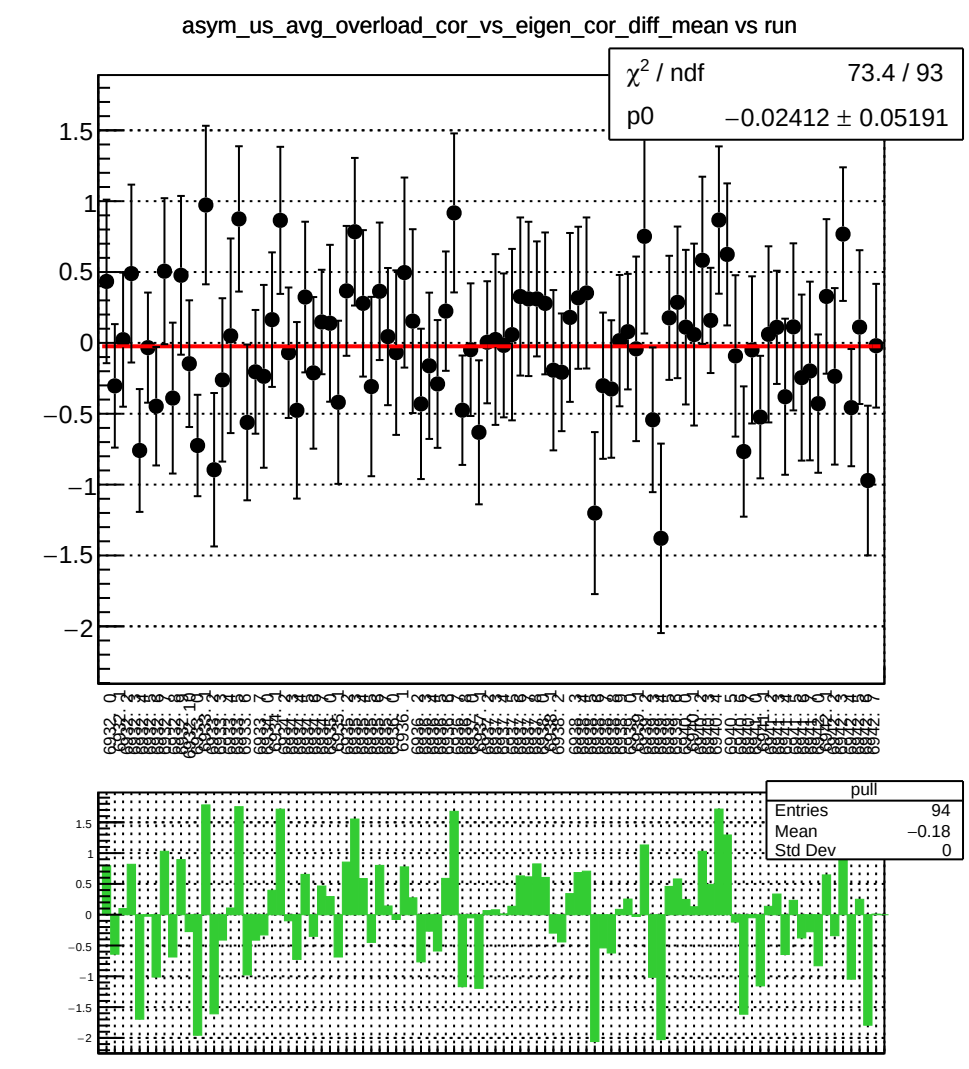

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.91 / 93
p0 −1.341e−14 ± 3.885e−14
pull
Entries 94
Mean 88.3
Std Dev 0
pull1D
Entries 94
Mean 0.09641
Std Dev 0.9228

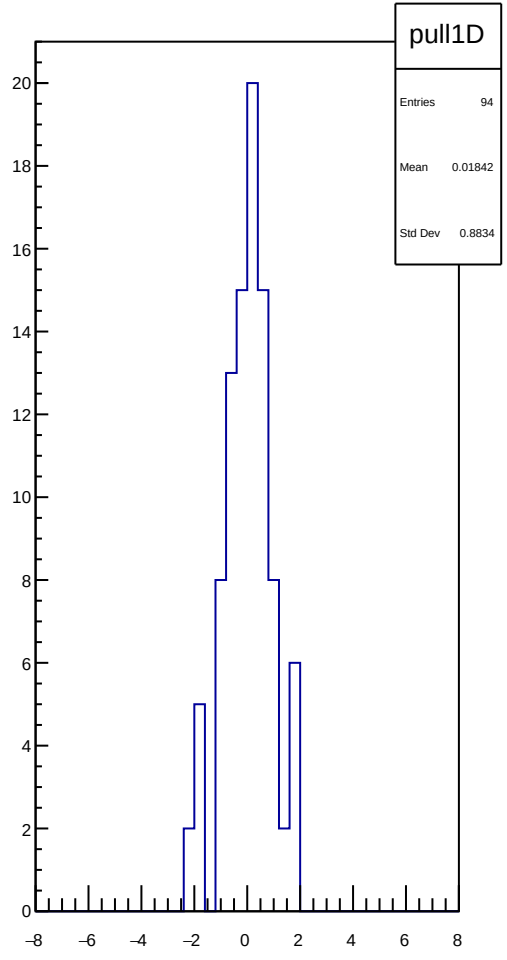

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.007e+05 / 93
p0 3.208e−11 ± 2.747e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

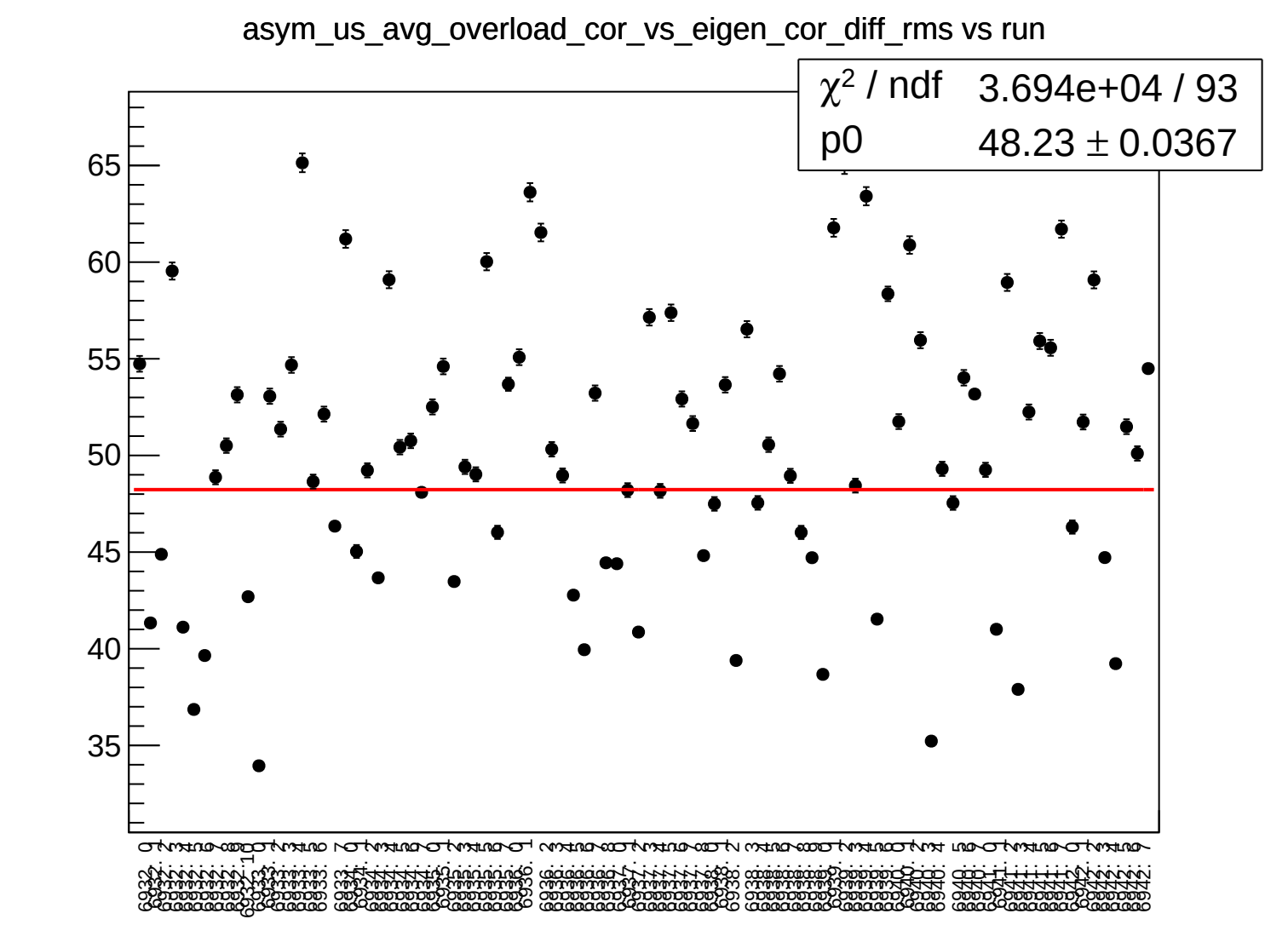

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.4 / 93
p0 −0.02412 ± 0.05191
pull
Entries 94
Mean −0.18
Std Dev 0

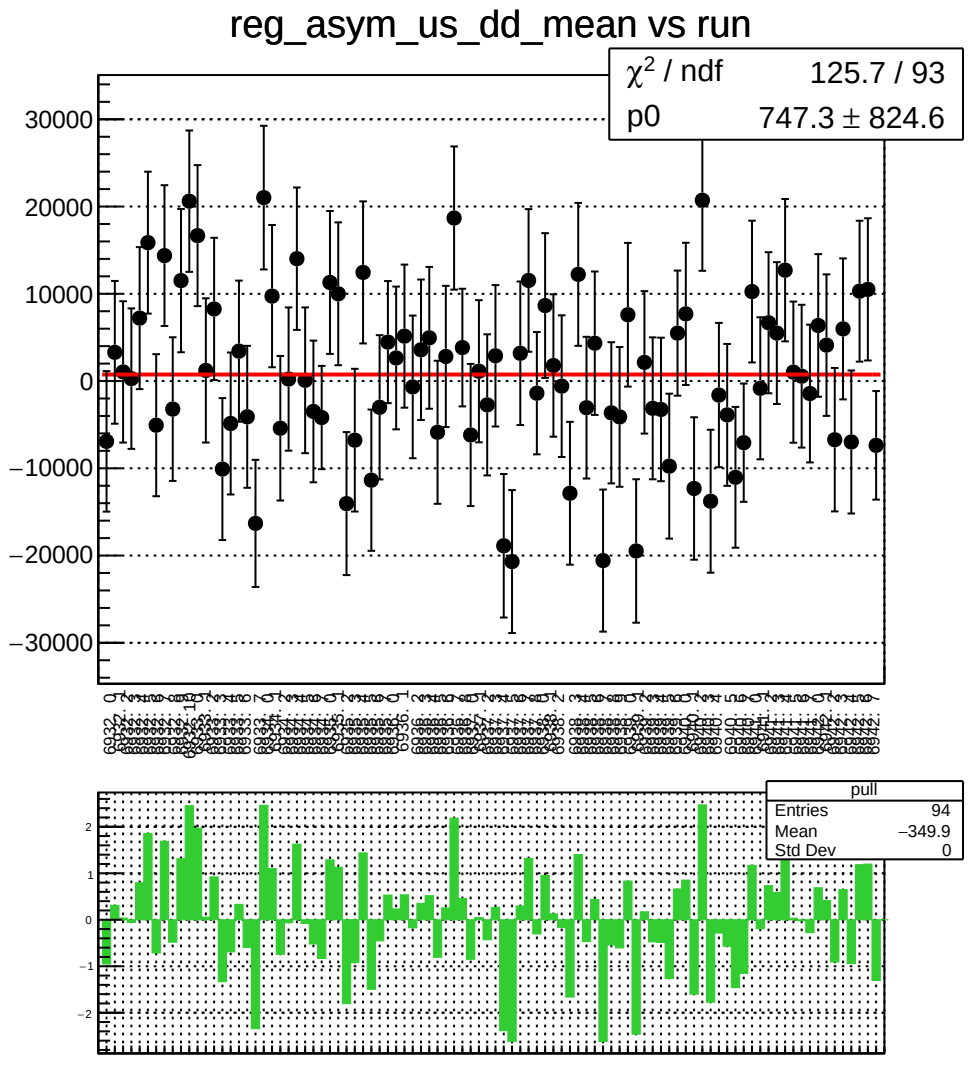

pull1D
Entries 94
Mean 0.01842
Std Dev 0.8834

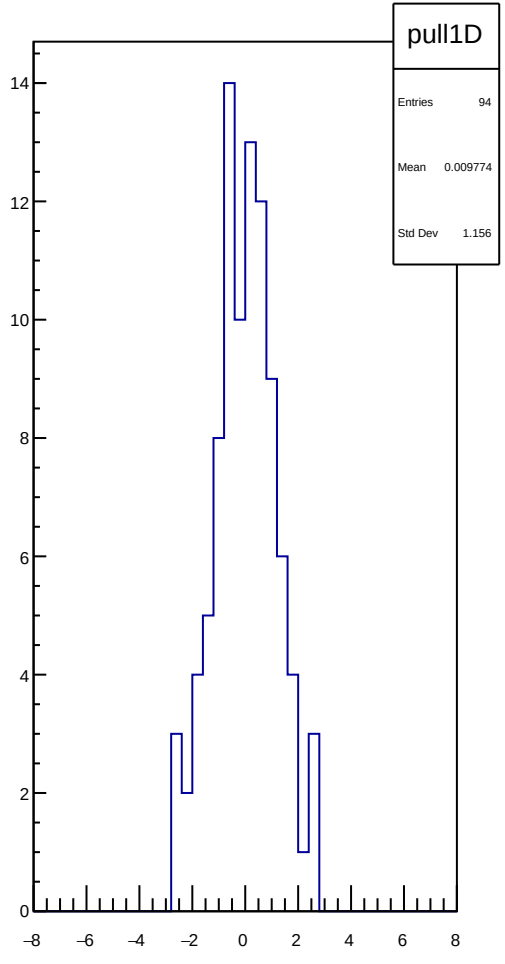

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.694e+04 / 93
p0 48.23 ± 0.0367
65
60
55
50
45
40
35

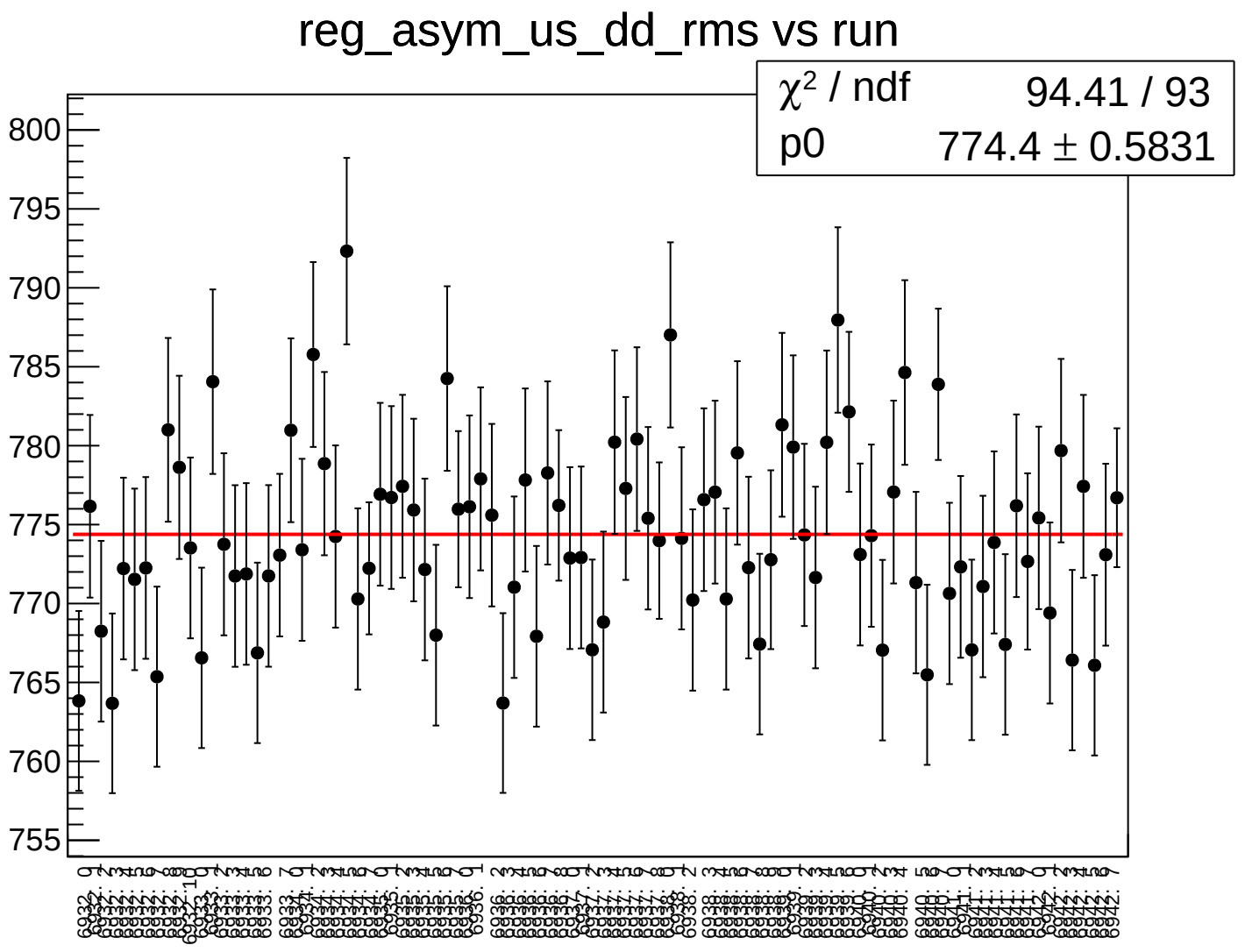

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.4 / 93
p0 −0.02412 ± 0.05191
pull
Entries 94
Mean −0.18
Std Dev 0

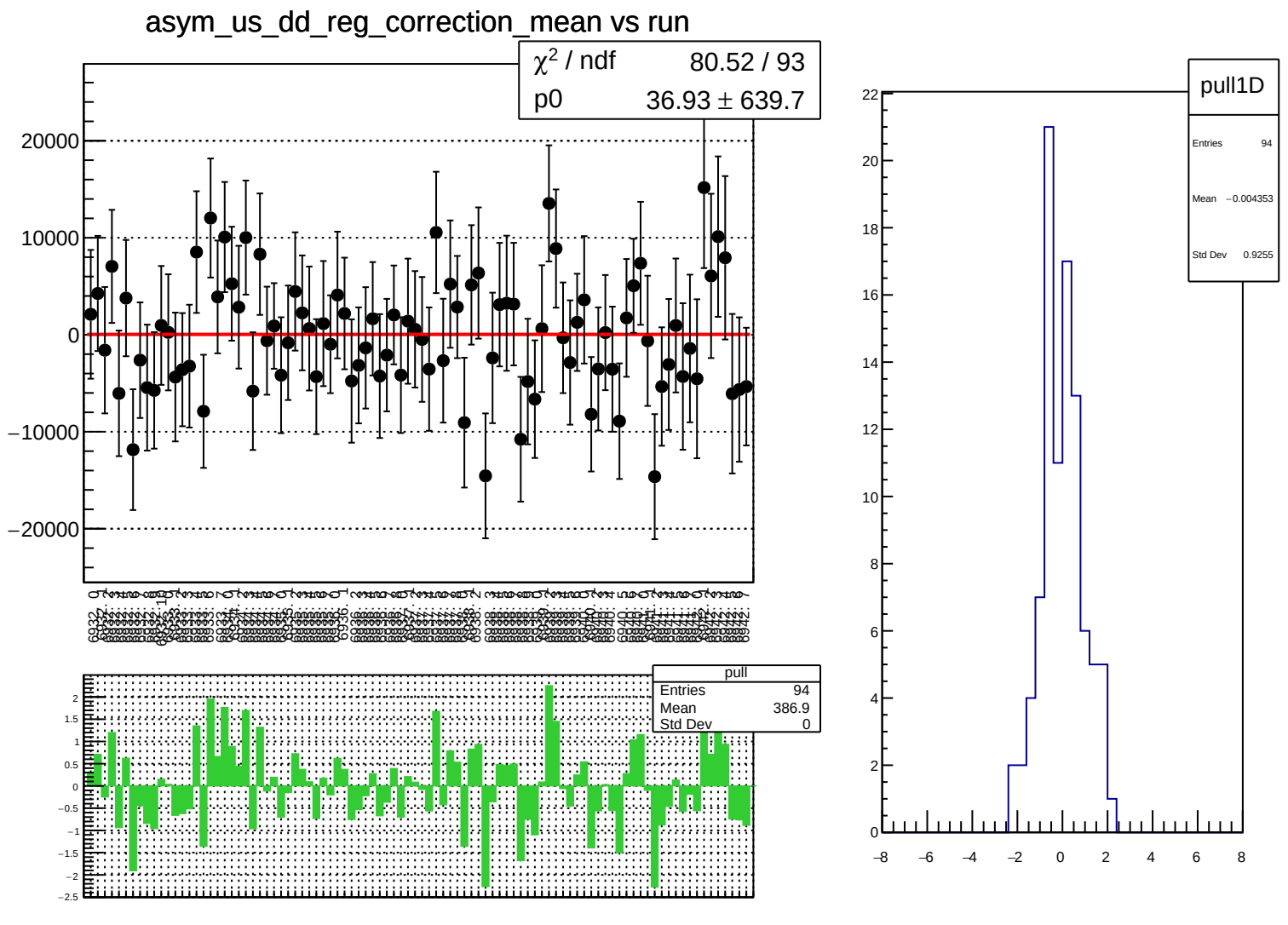

pull1D
Entries 94
Mean 0.01842
Std Dev 0.8834

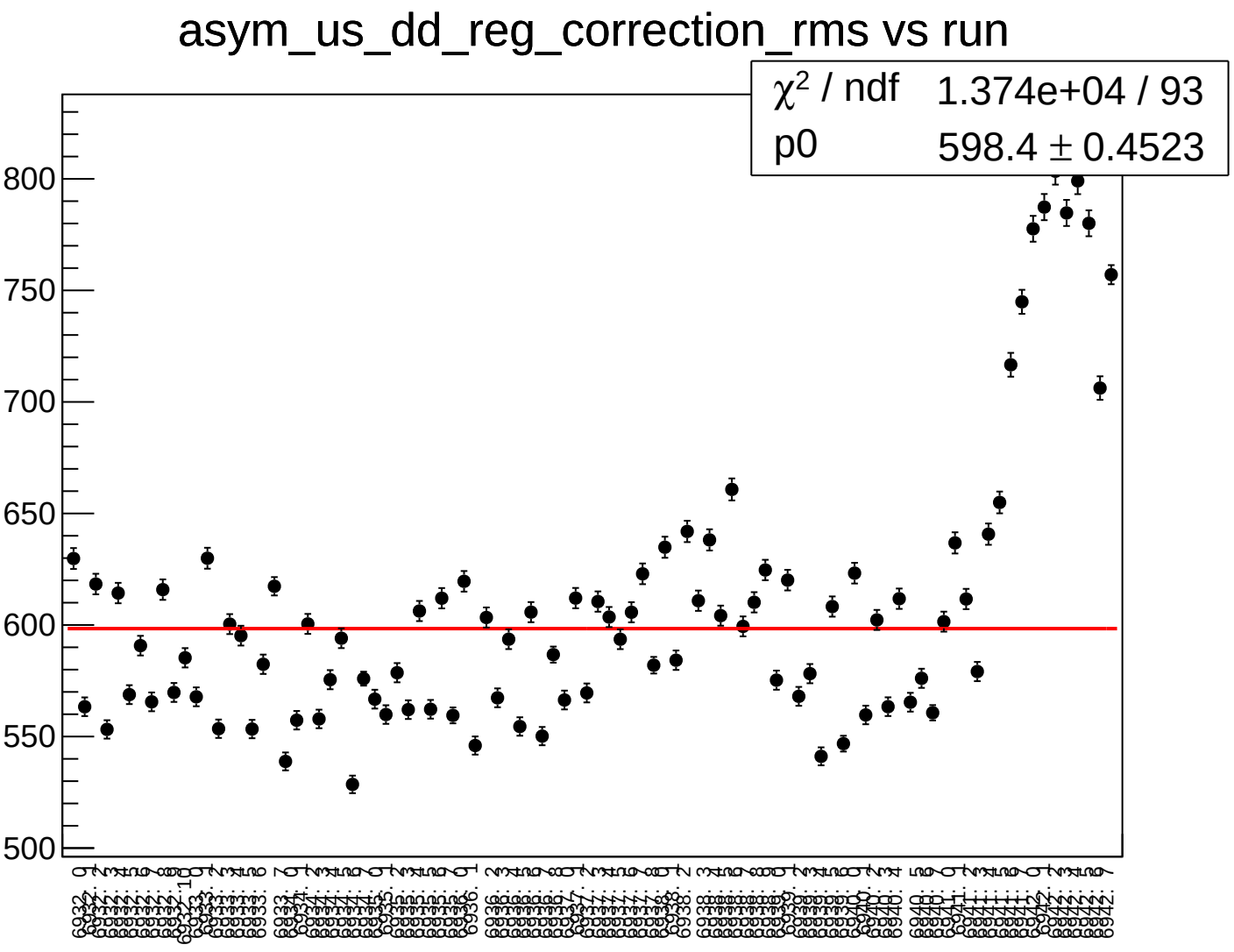

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.694e+04 / 93
p0 48.23 ± 0.0367
65
60
55
50
45
40
35

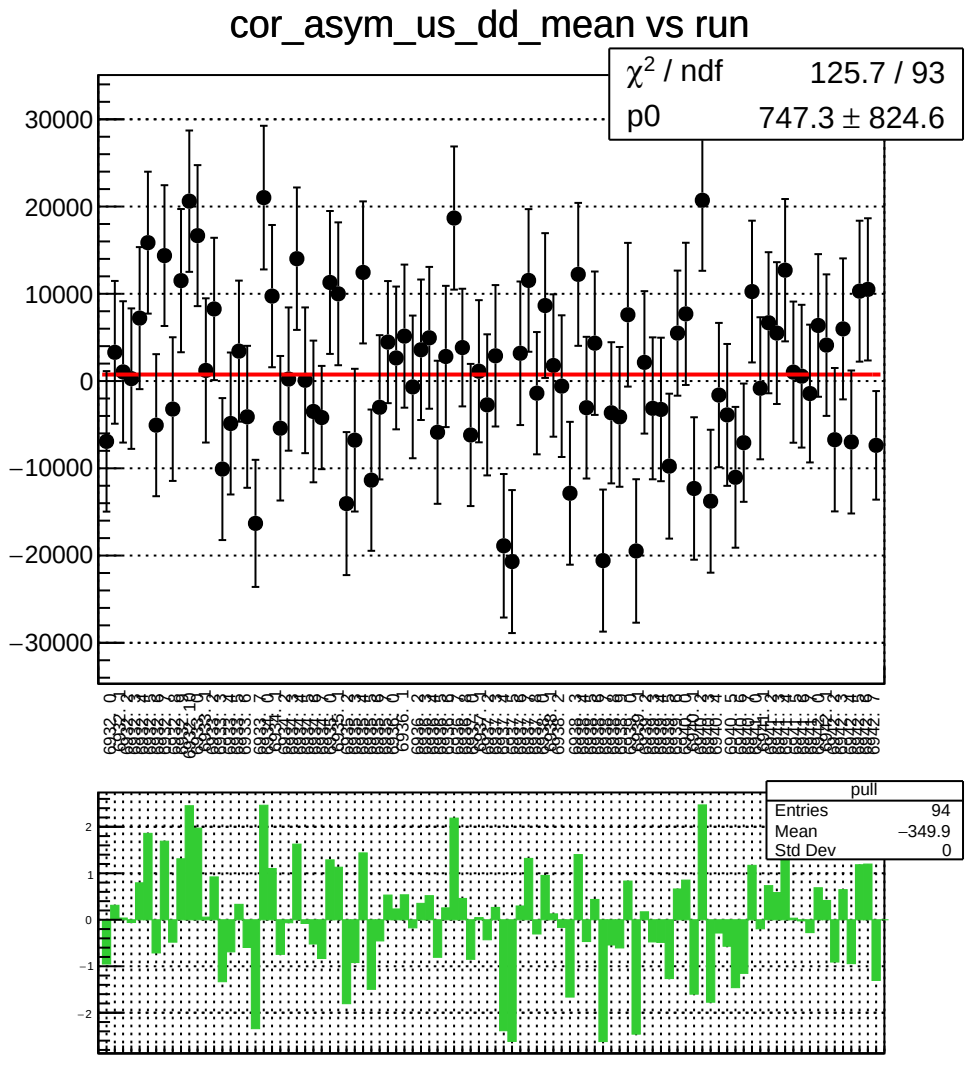

reg_asym_us_dd_mean vs run
χ² / ndf 125.7 / 93
p0 747.3 ± 824.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −349.9
Std Dev 0
2
1
0
−1
−2

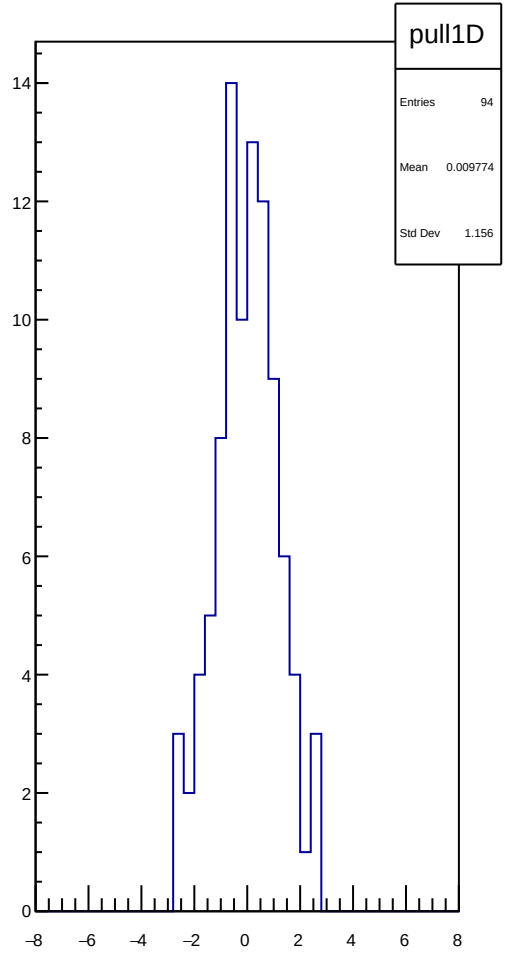

pull1D
Entries 94
Mean 0.009774
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

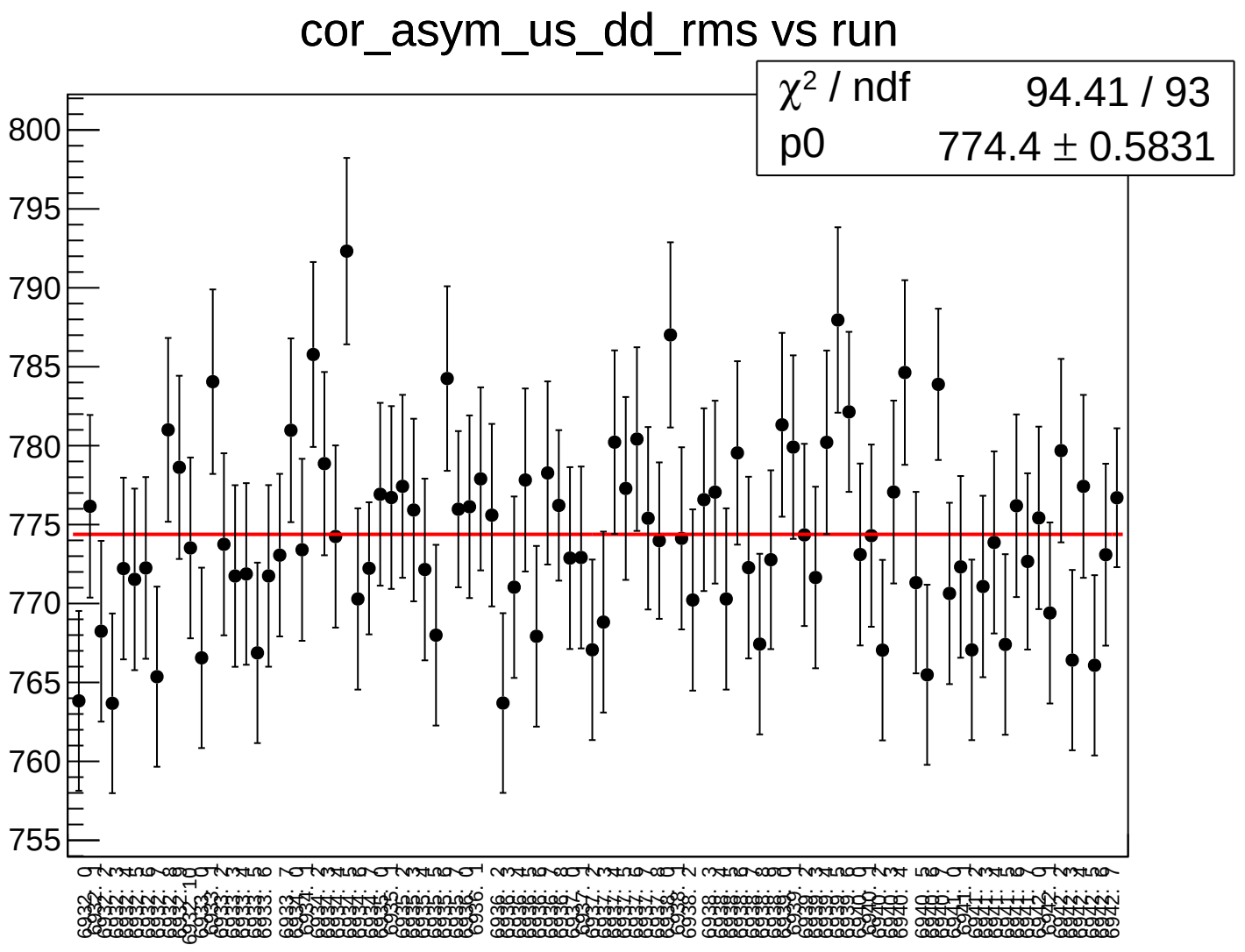

reg_asym_us_dd_rms vs run
χ² / ndf 94.41 / 93
p0 774.4 ± 0.5831
800
795
790
785
780
775
770
765
760
755

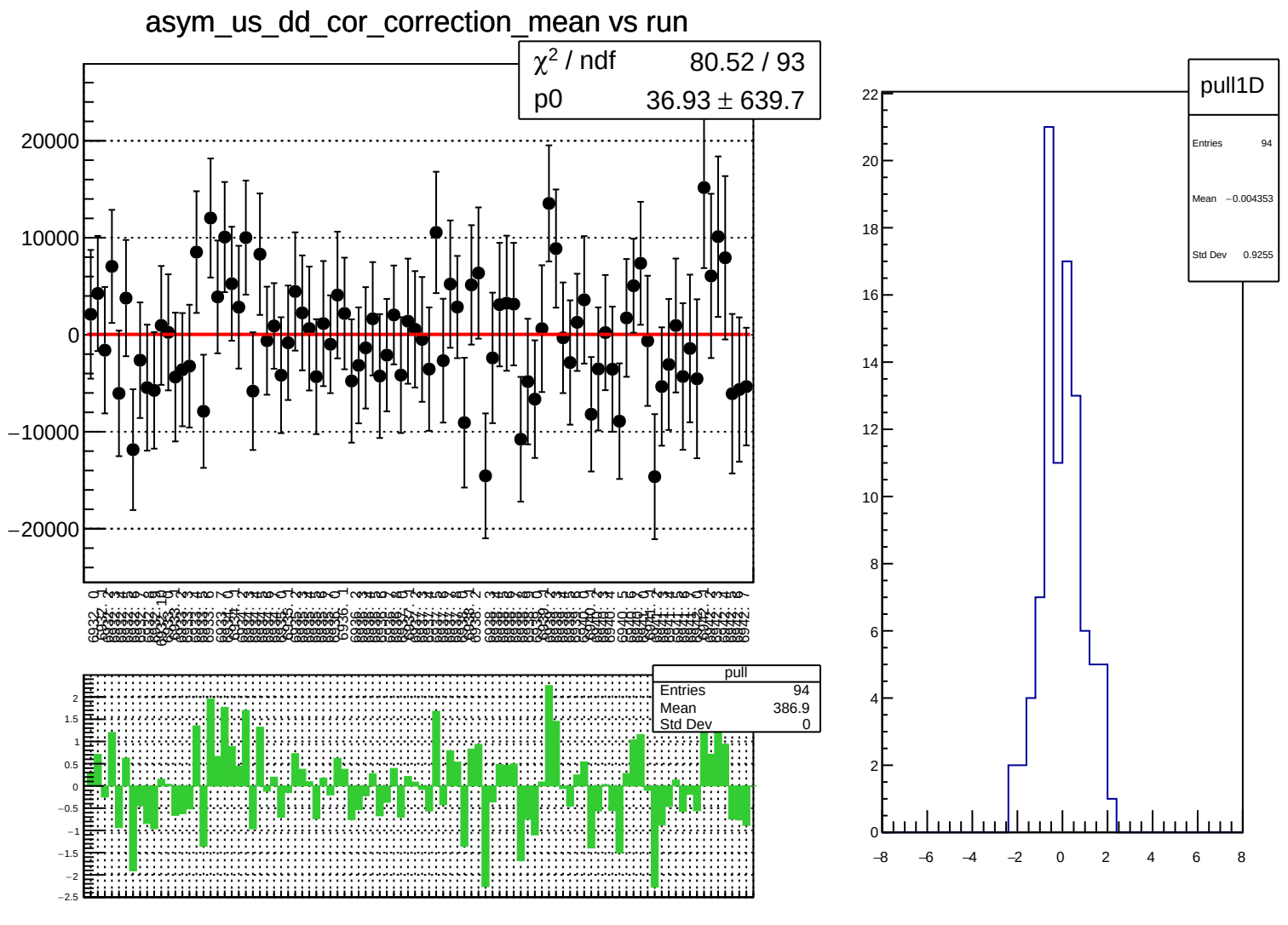

asym_us_dd_reg_correction_mean vs run
χ² / ndf 80.52 / 93
p0 36.93 ± 639.7
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 386.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.004353
Std Dev 0.9255
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

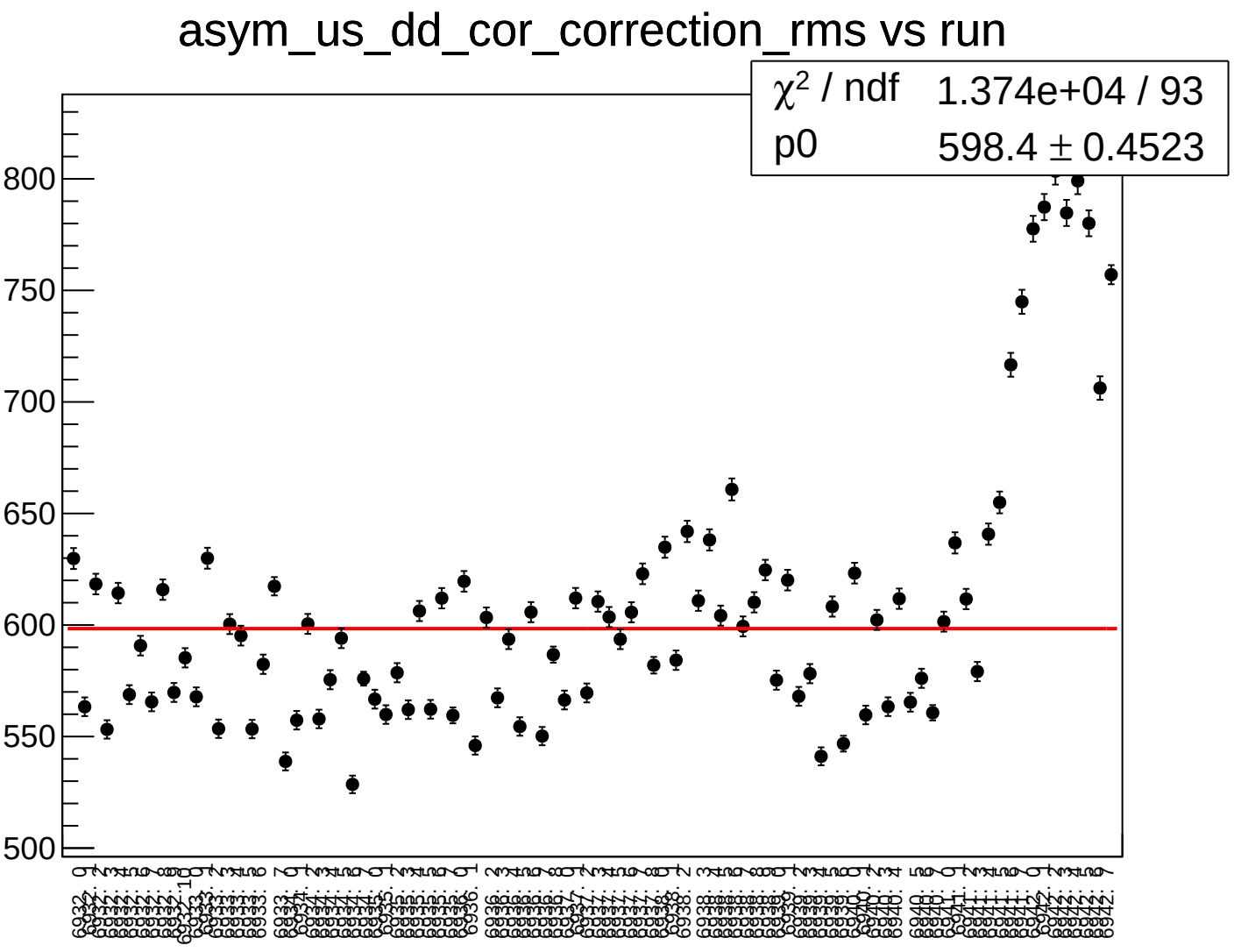

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.374e+04 / 93
p0 598.4 ± 0.4523
800
750
700
650
600
550
500

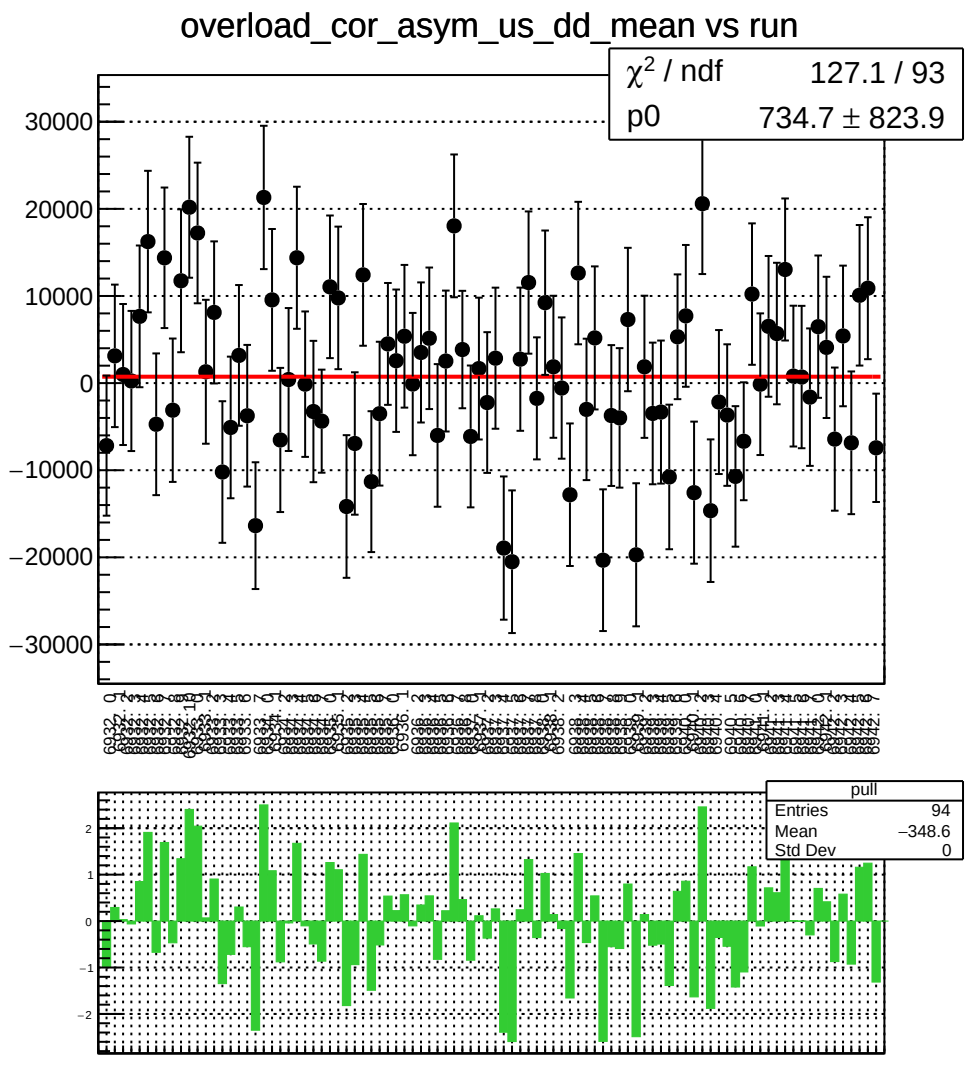

cor_asym_us_dd_mean vs run
χ² / ndf 125.7 / 93
p0 747.3 ± 824.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −349.9
Std Dev 0
2
1
0
−1
−2

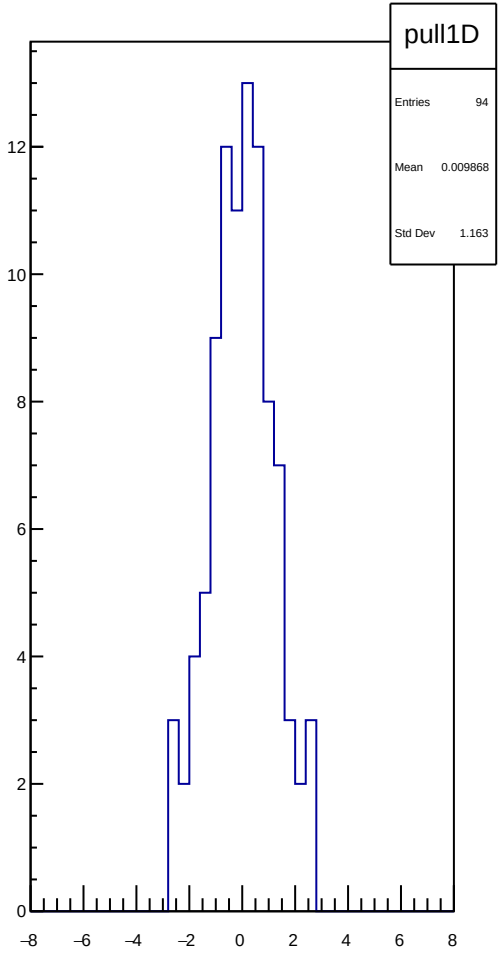

pull1D
Entries 94
Mean 0.009774
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

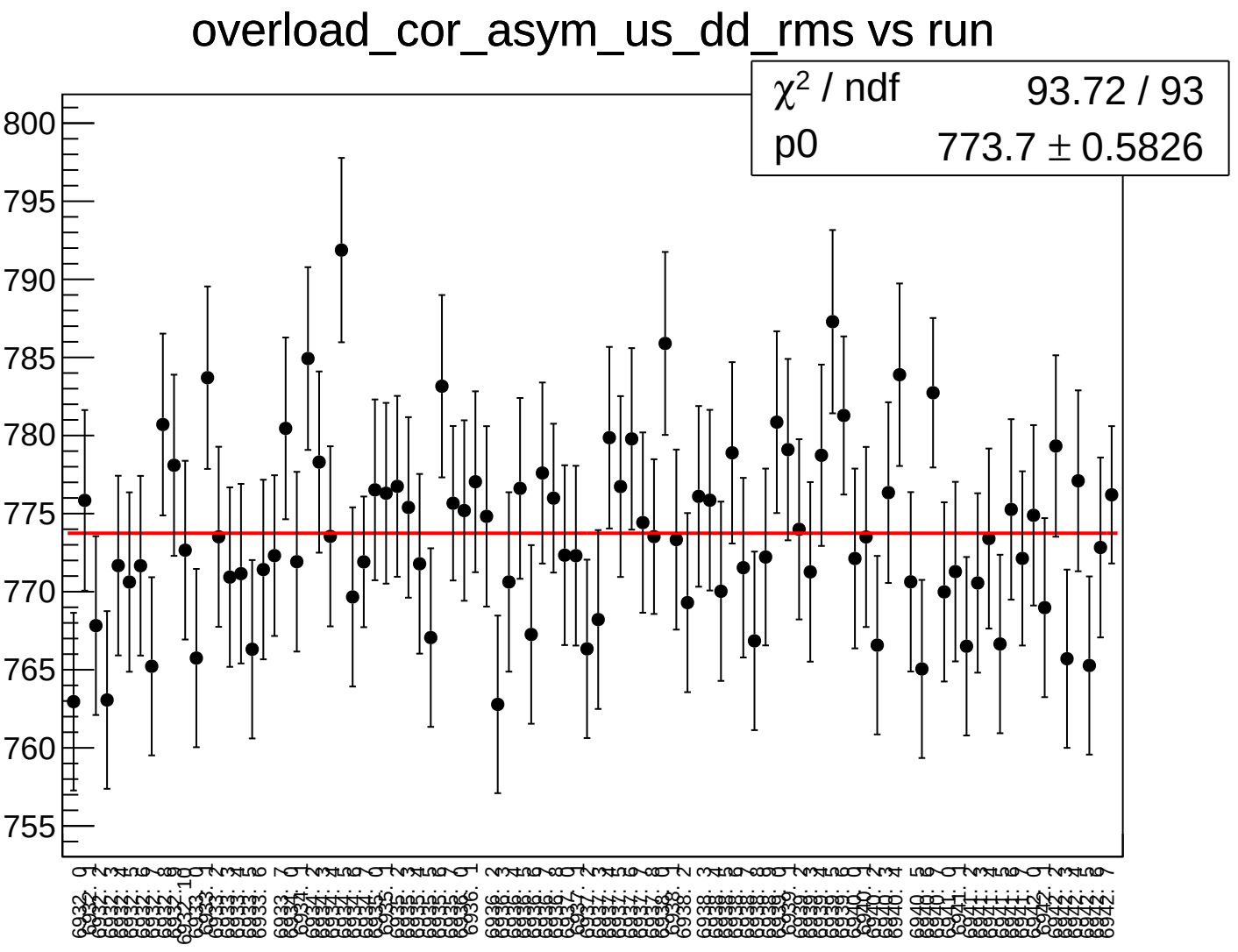

cor_asym_us_dd_rms vs run
χ² / ndf 94.41 / 93
p0 774.4 ± 0.5831
800
795
790
785
780
775
770
765
760
755

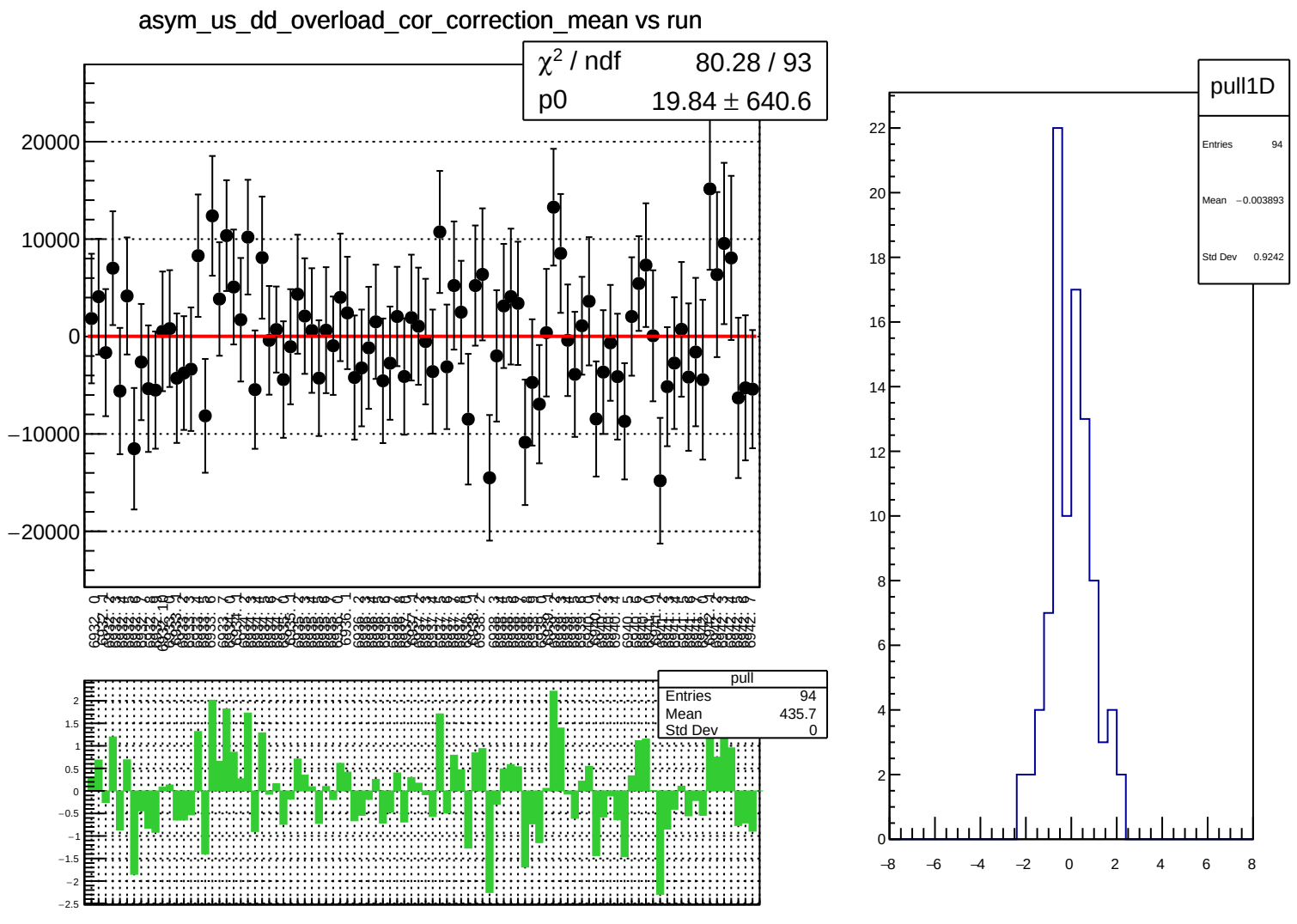

asym_us_dd_cor_correction_mean vs run
χ² / ndf 80.52 / 93
p0 36.93 ± 639.7
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 386.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.004353
Std Dev 0.9255
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

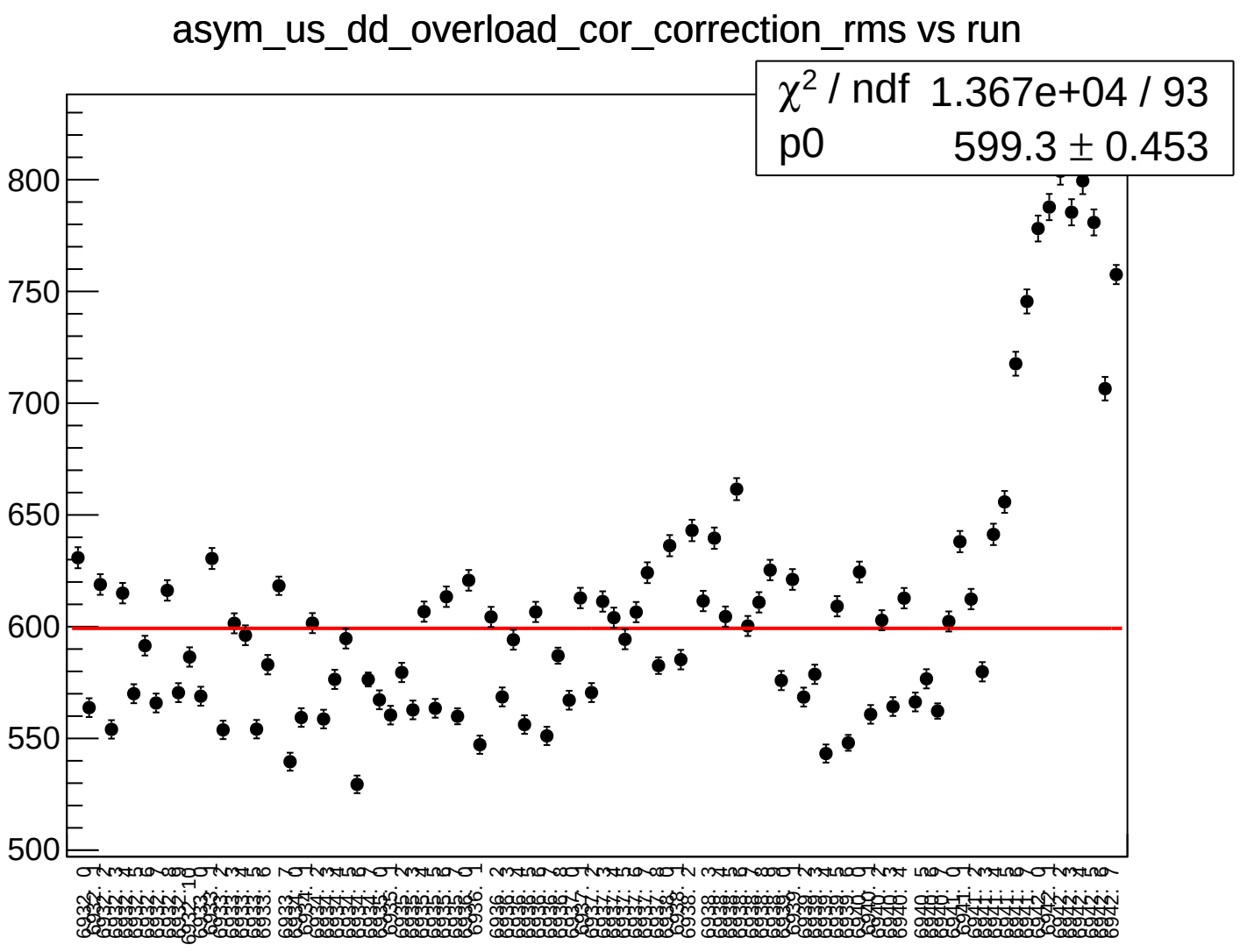

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.374e+04 / 93
p0 598.4 ± 0.4523
800
750
700
650
600
550
500

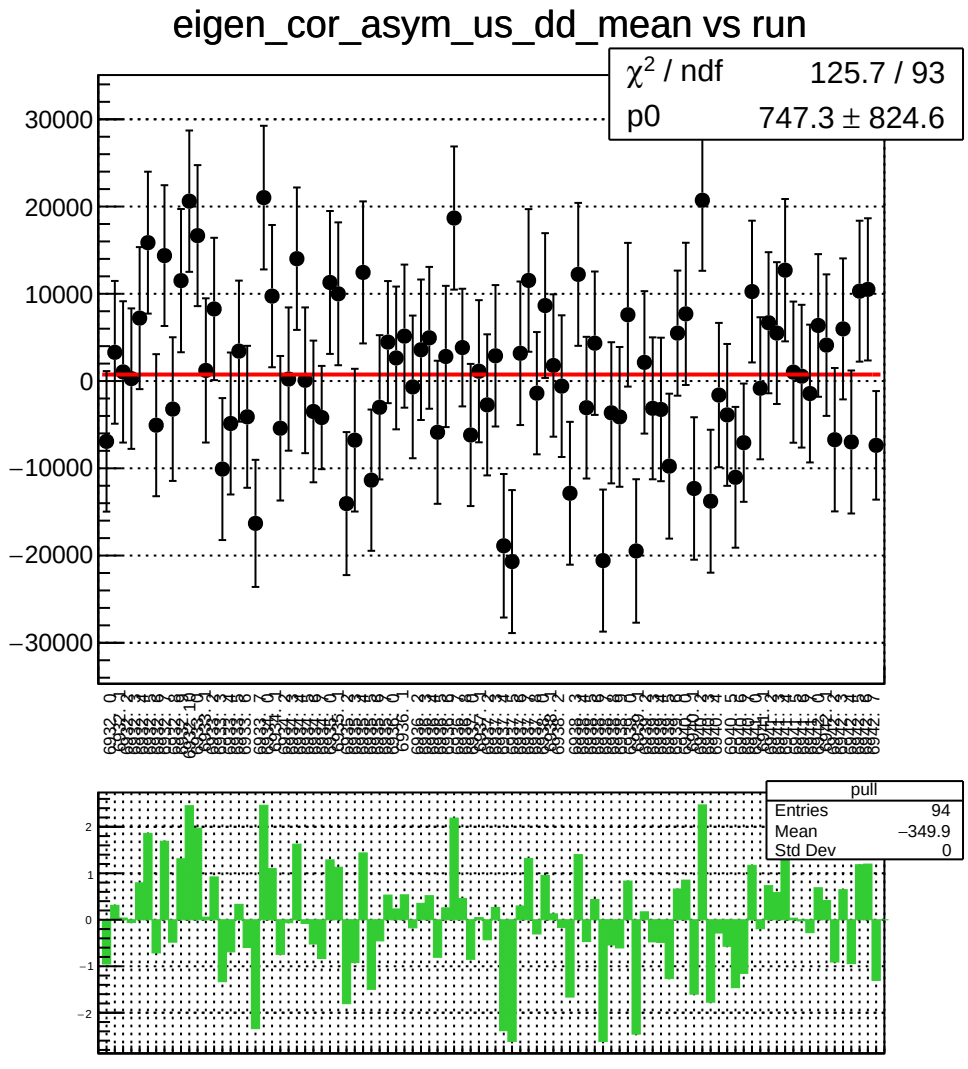

overload_cor_asym_us_dd_mean vs run
χ² / ndf 127.1 / 93
p0 734.7 ± 823.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −348.6
Std Dev 0
2
1
0
−1
−2

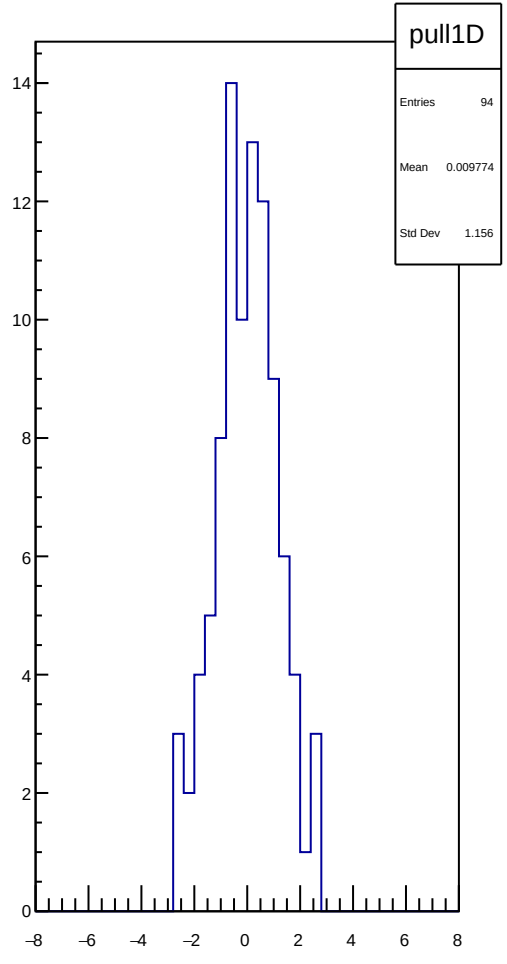

pull1D
Entries 94
Mean 0.009868
Std Dev 1.163
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

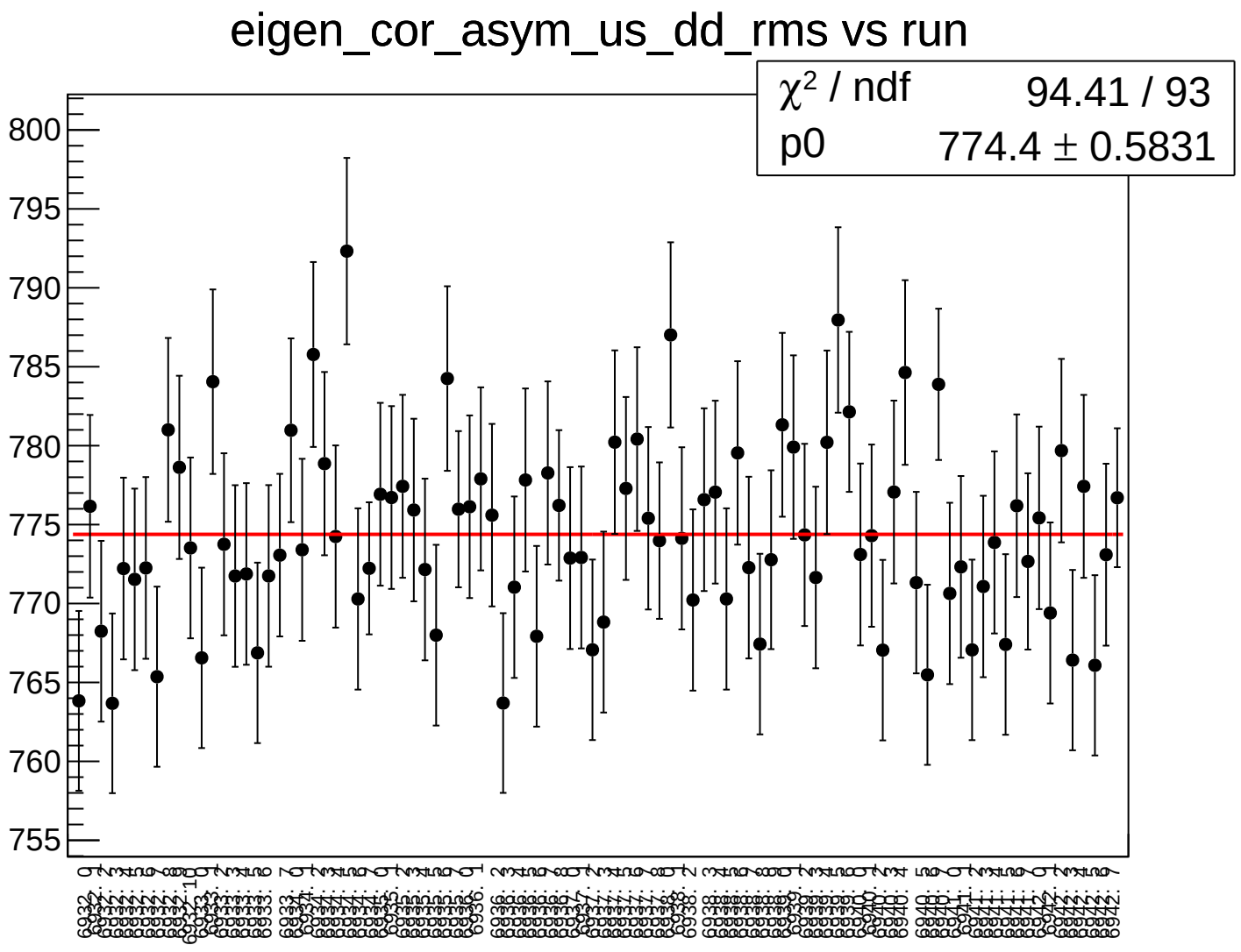

overload_cor_asym_us_dd_rms vs run
χ² / ndf 93.72 / 93
p0 773.7 ± 0.5826
800
795
790
785
780
775
770
765
760
755

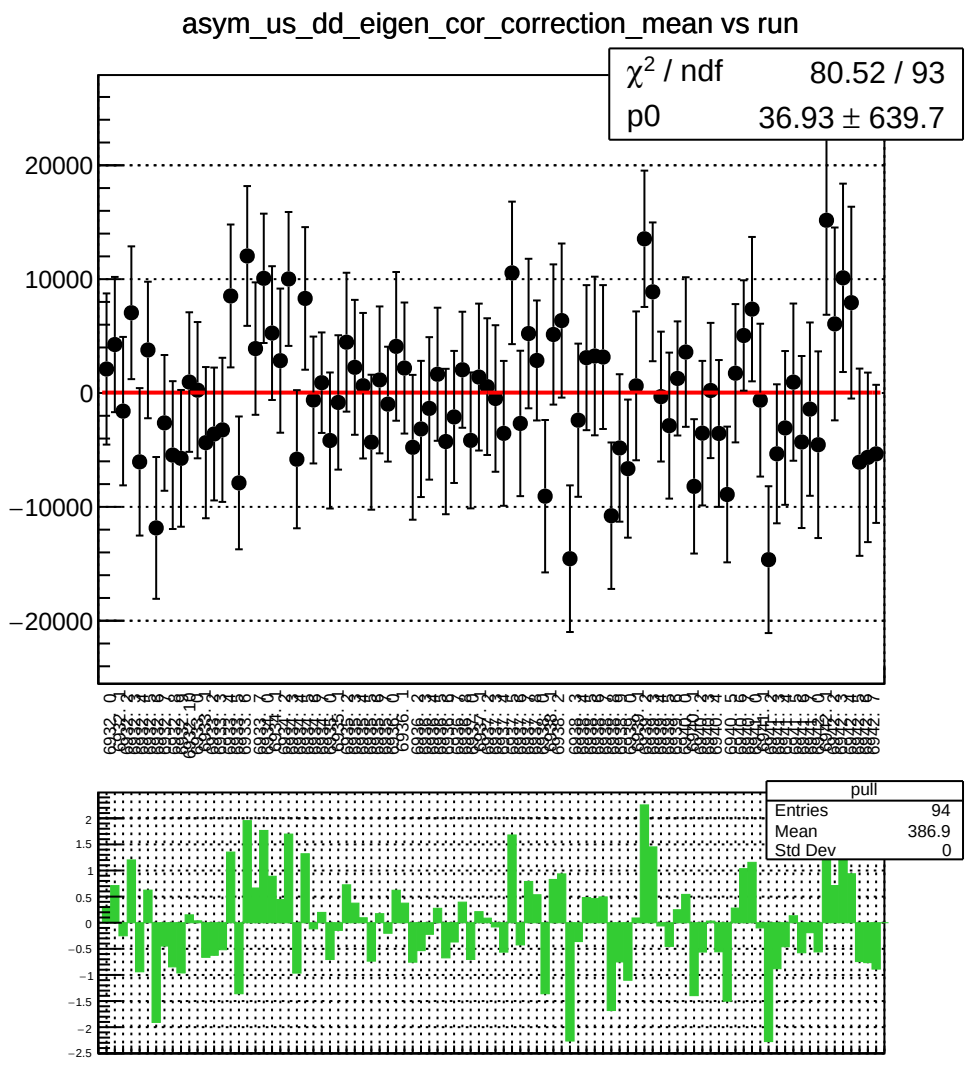

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 80.28 / 93
p0 19.84 ± 640.6
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 435.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.003893
Std Dev 0.9242
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

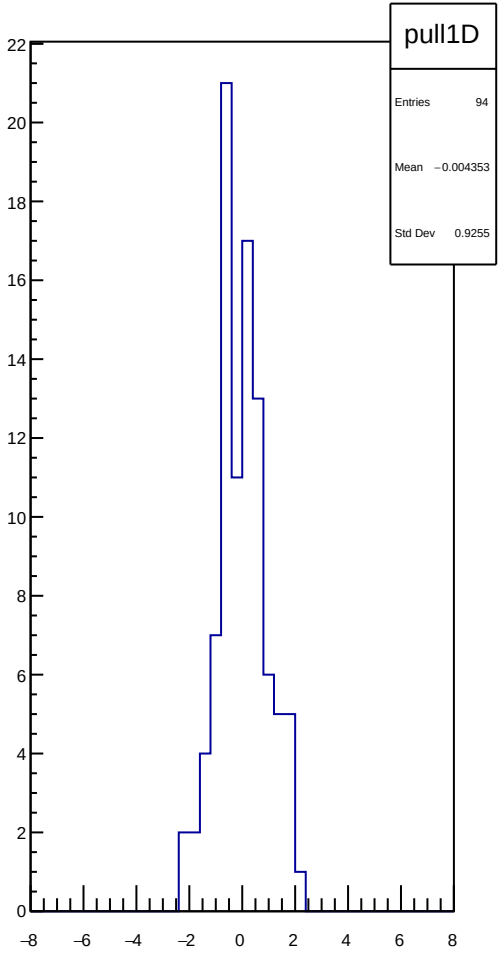

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 1.367e+04 / 93
p0 599.3 ± 0.453
800
750
700
650
600
550
500

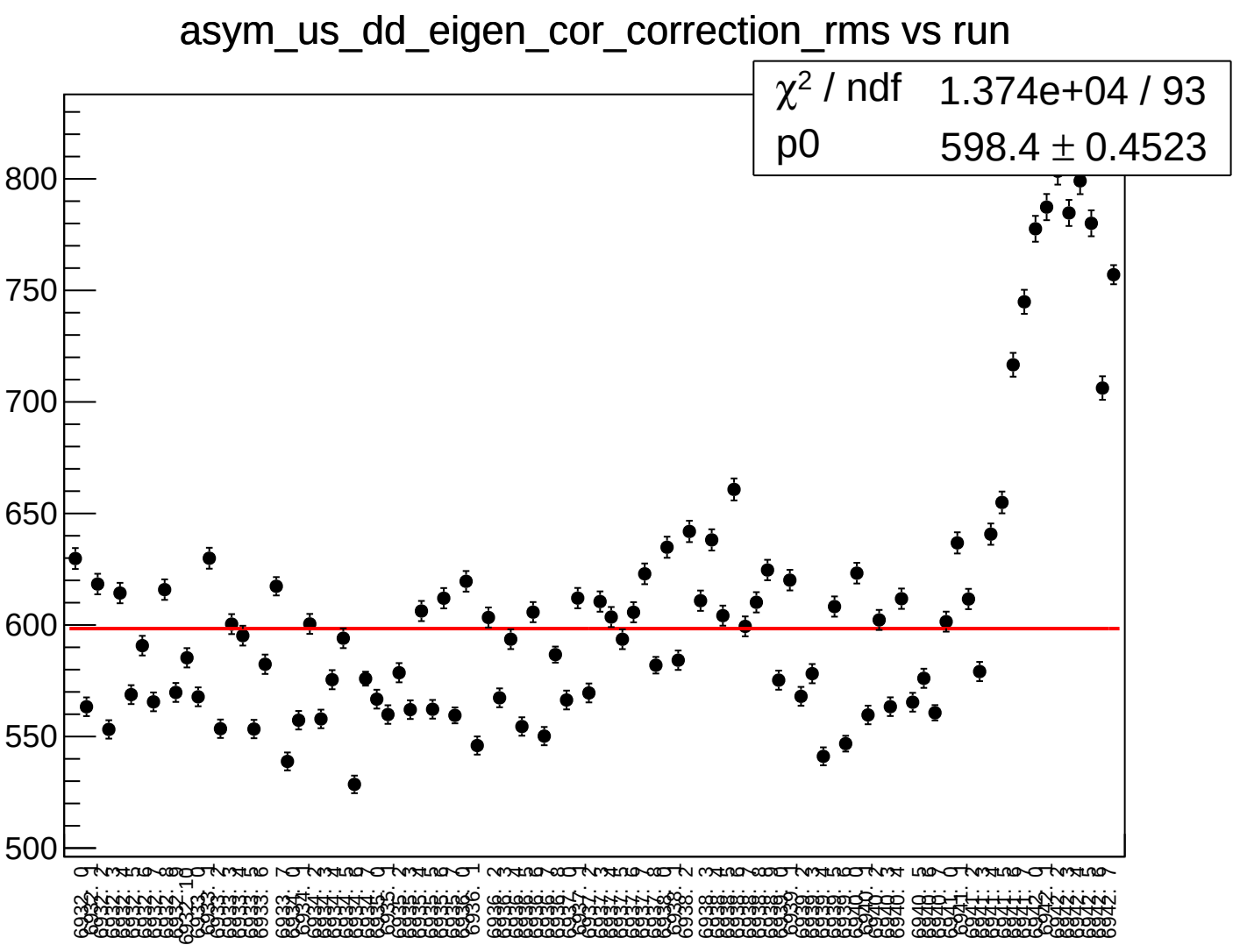

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 125.7 / 93
p0 747.3 ± 824.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −349.9
Std Dev 0
2
1
0
−1
−2

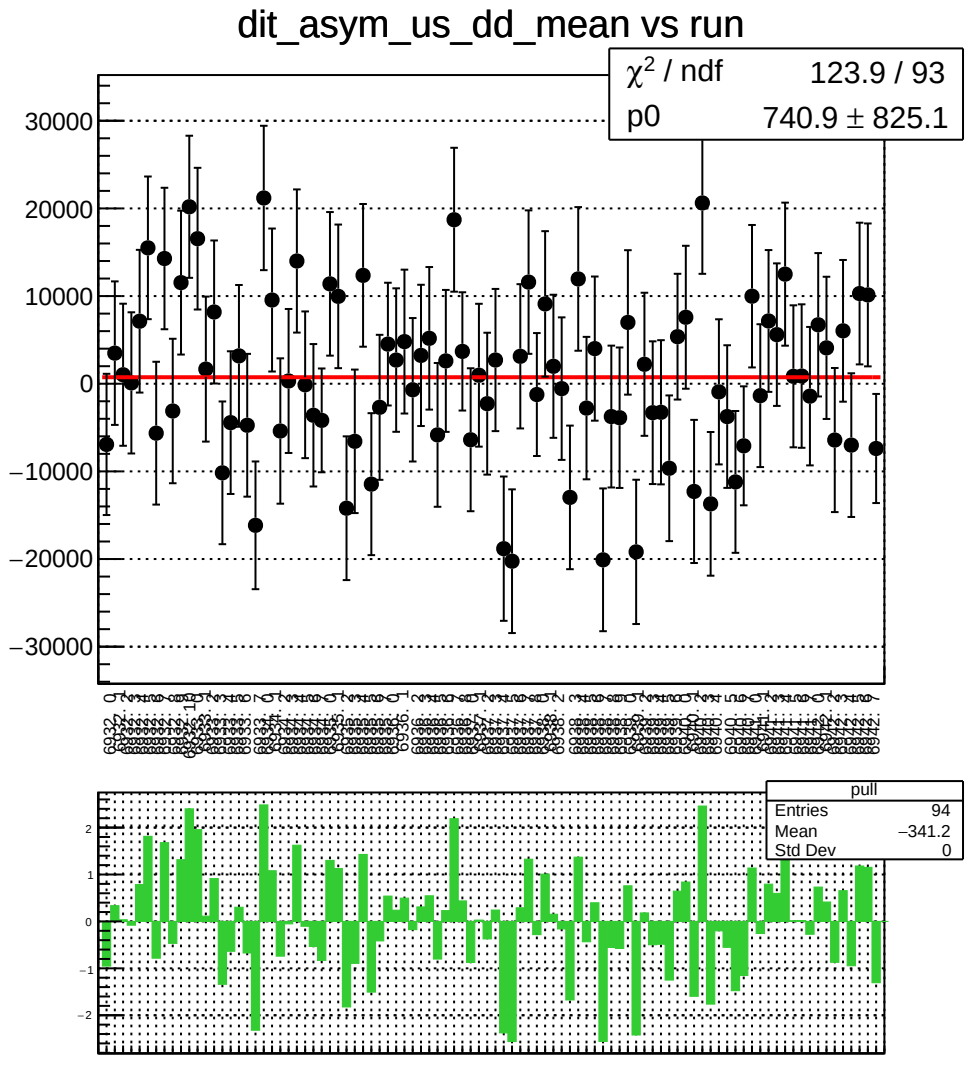

pull1D
Entries 94
Mean 0.009774
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

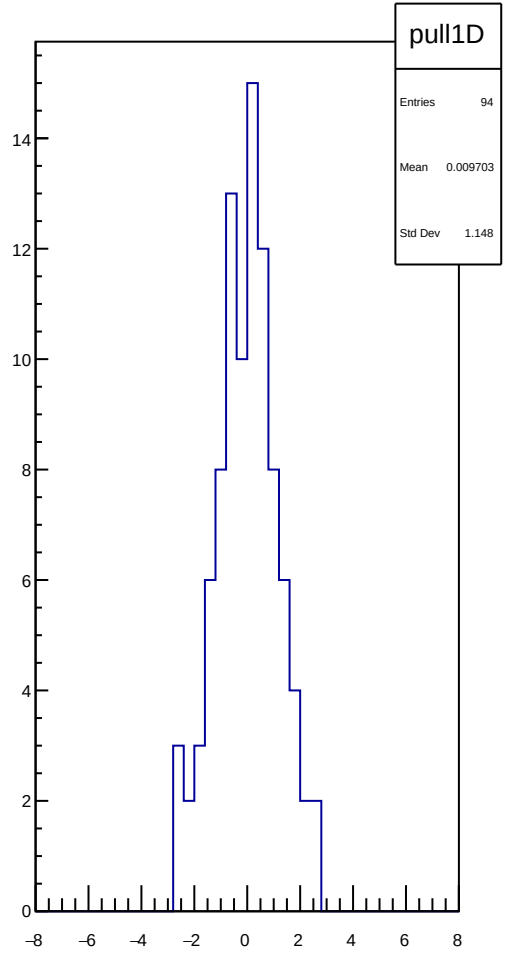

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 94.41 / 93
p0 774.4 ± 0.5831
800
795
790
785
780
775
770
765
760
755

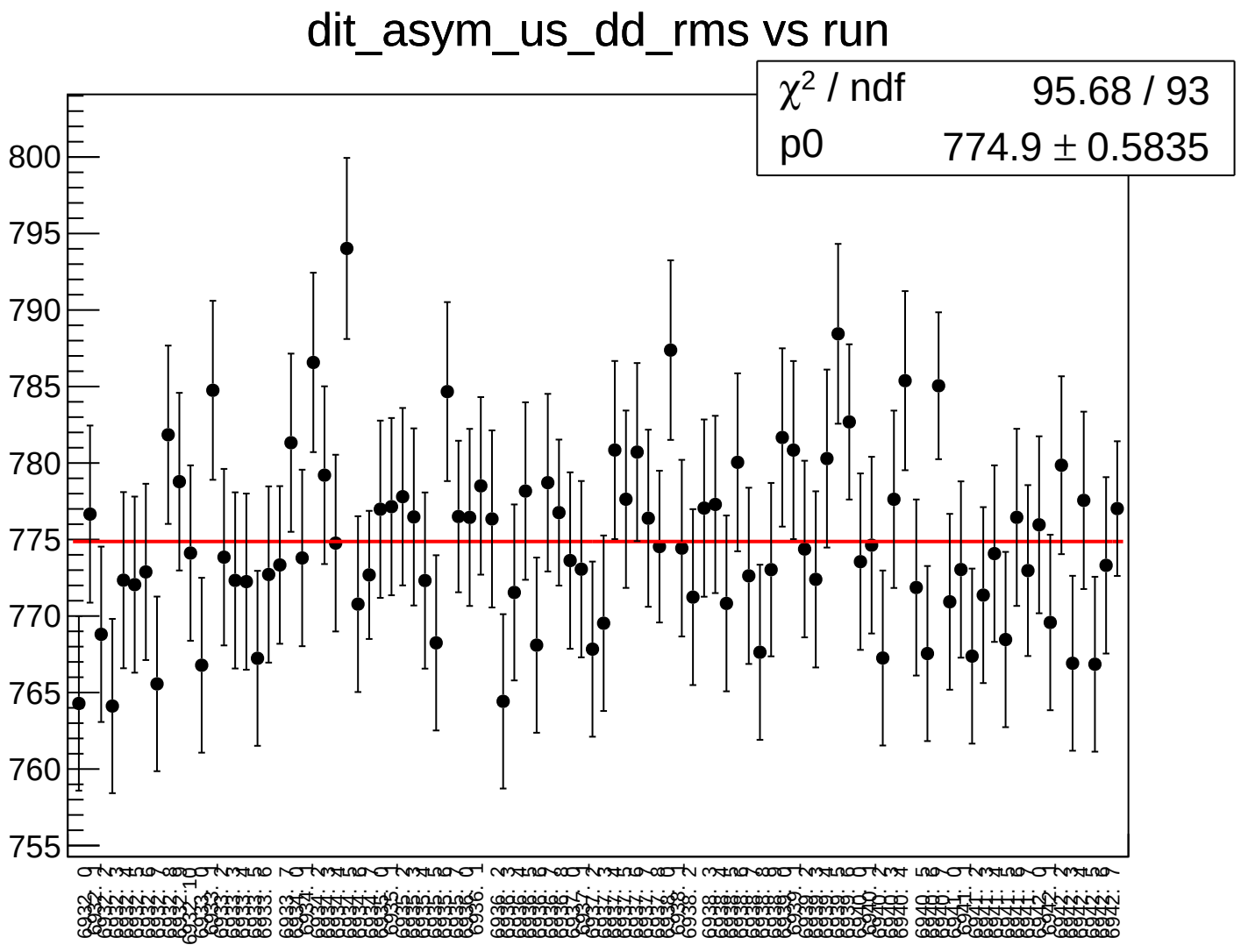

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.52 / 93
p0 36.93 ± 639.7
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 386.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

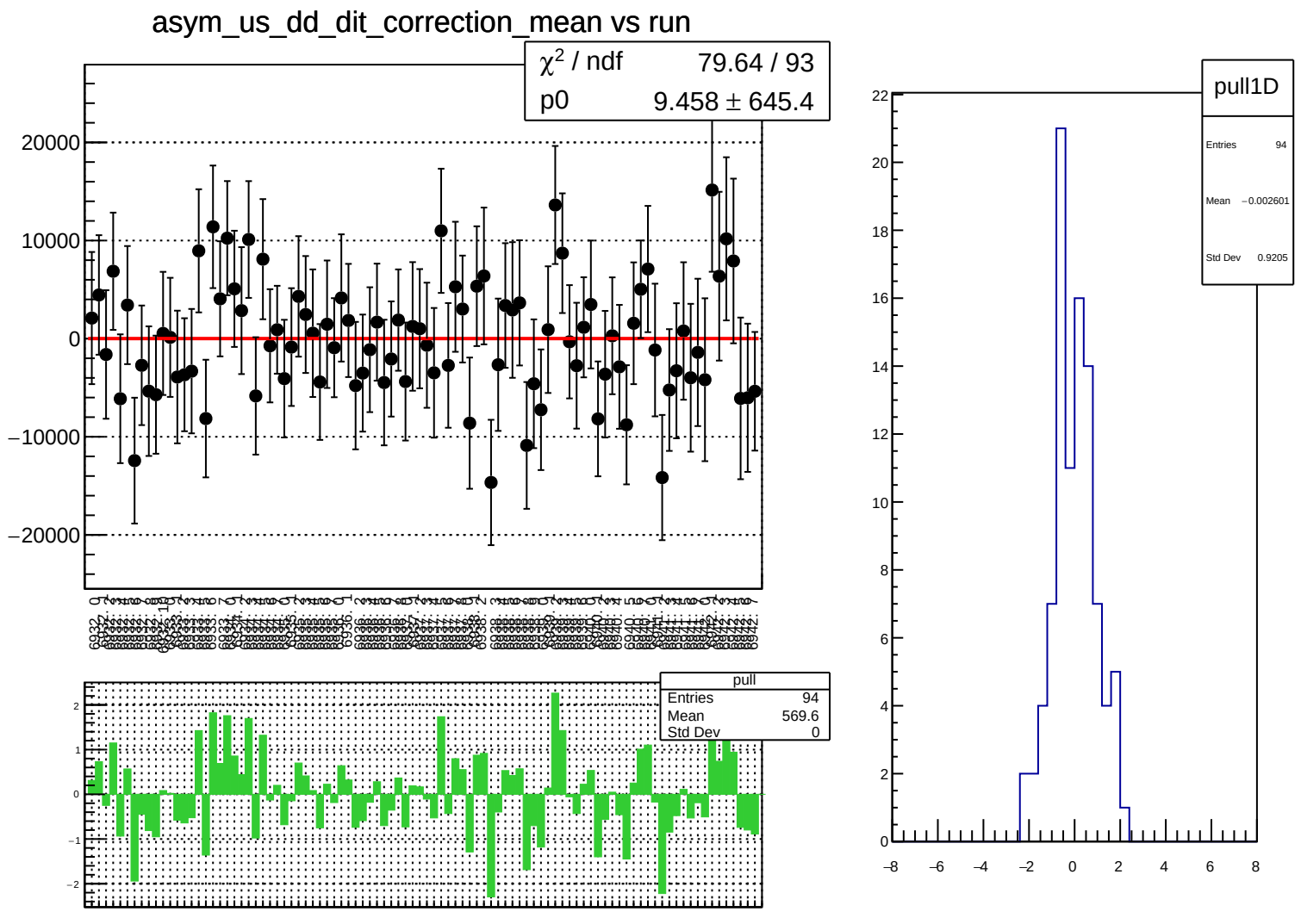

pull1D
Entries 94
Mean −0.004353
Std Dev 0.9255
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

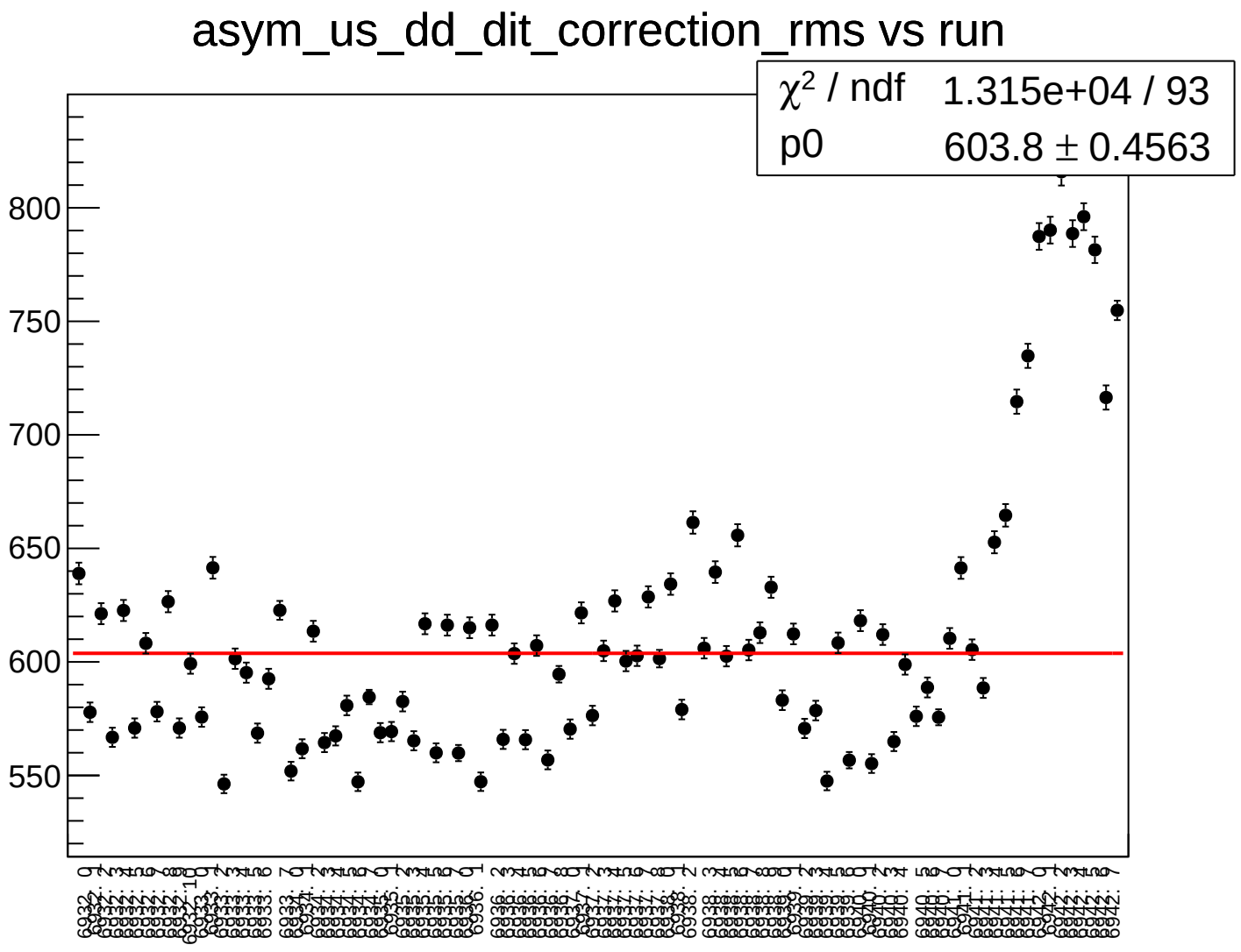

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.374e+04 / 93
p0 598.4 ± 0.4523
800
750
700
650
600
550
500

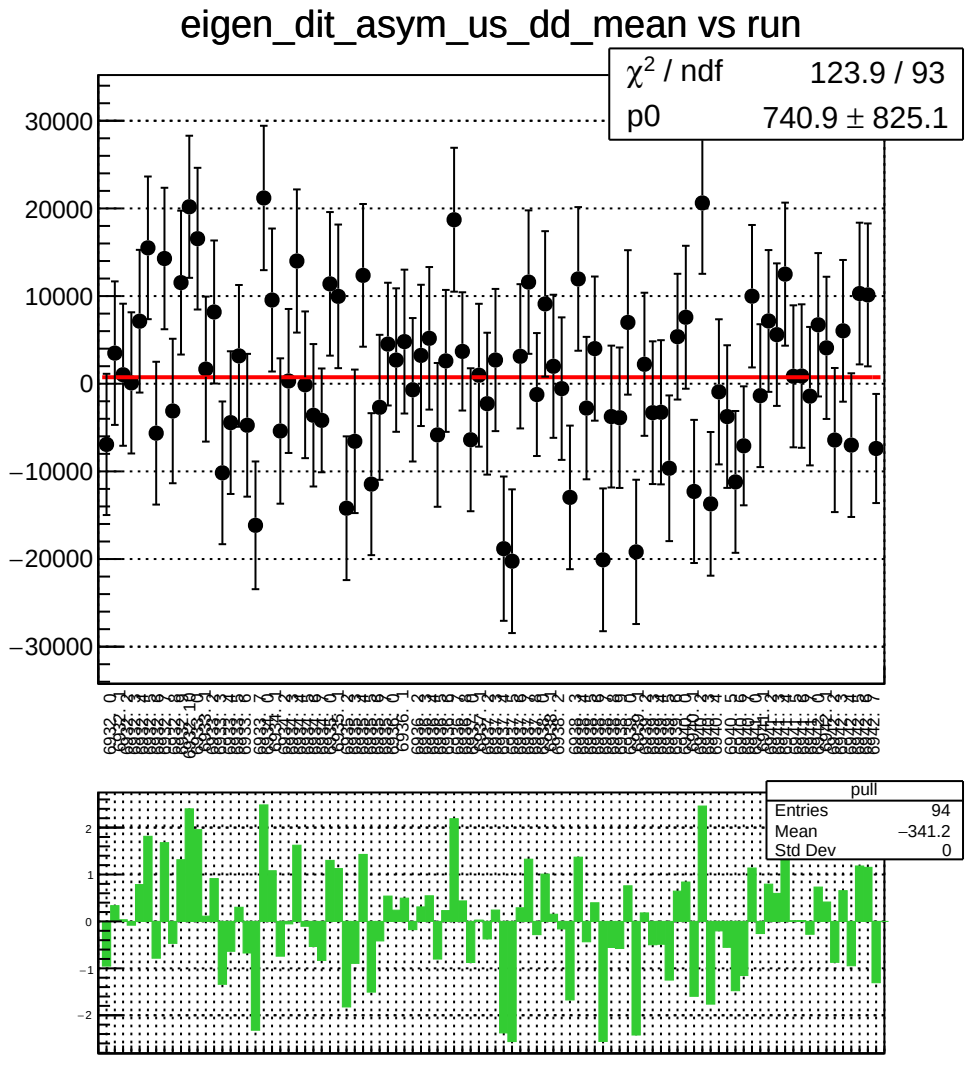

dit_asym_us_dd_mean vs run
χ^2 / ndf 123.9 / 93
p0 740.9 ± 825.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −341.2
Std Dev 0
2
1
0
−1
−2

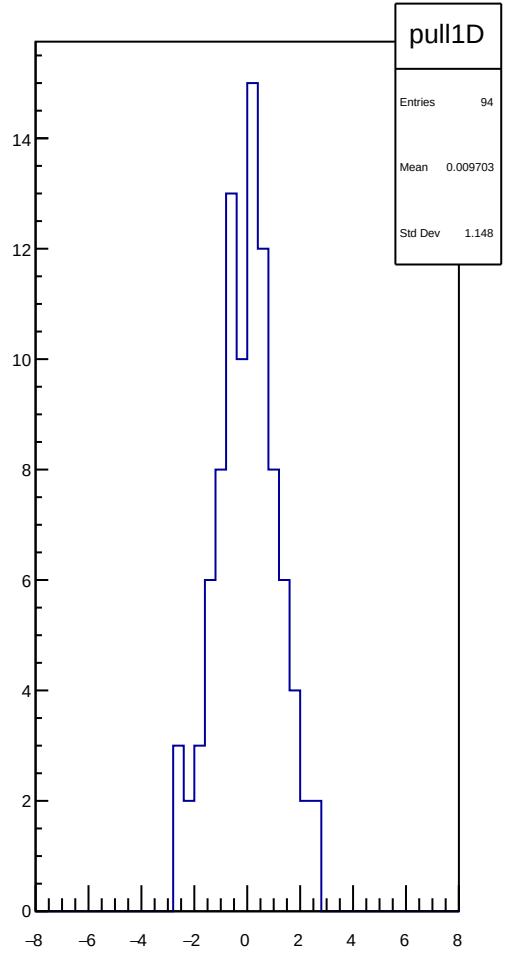

pull1D
Entries 94
Mean 0.009703
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

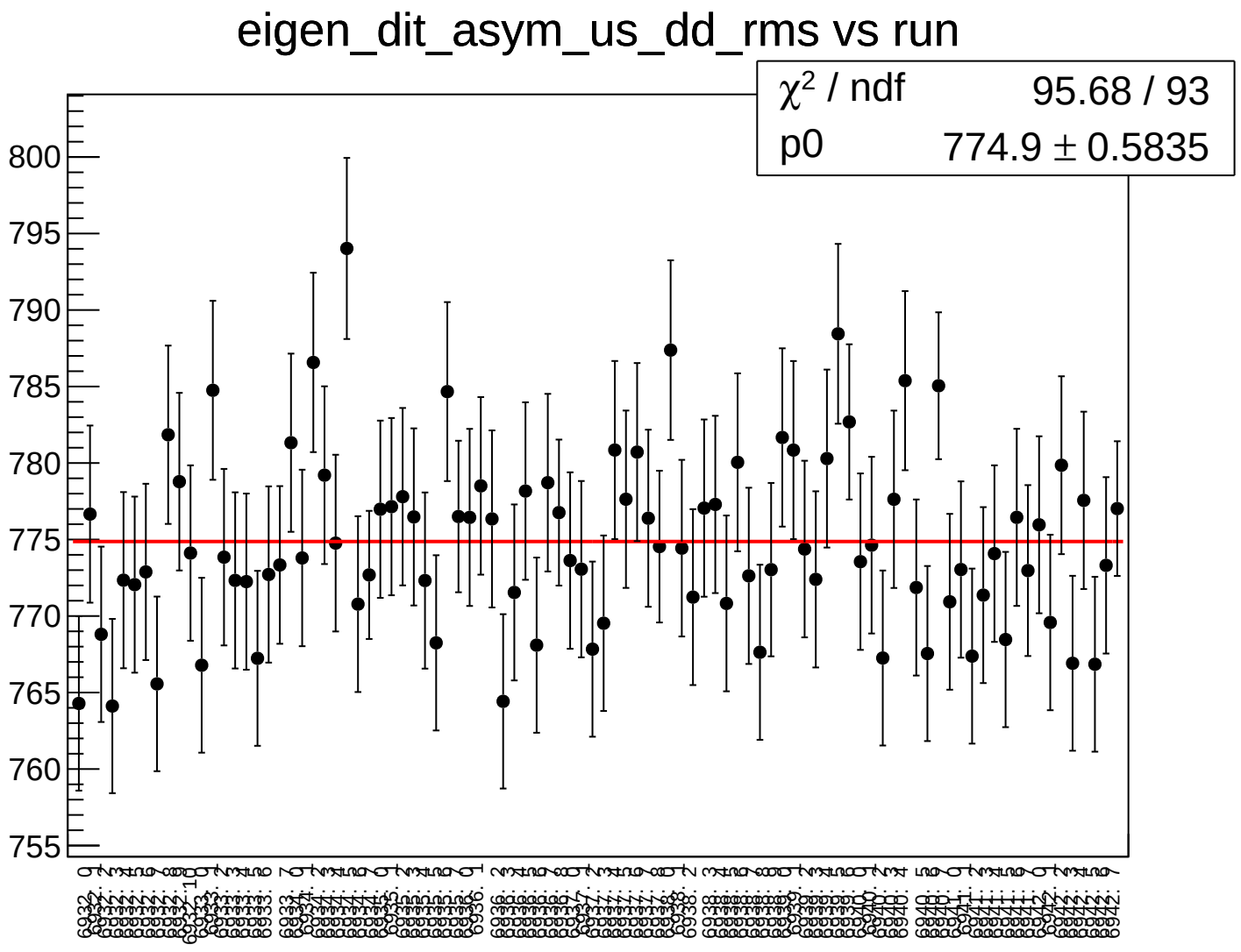

dit_asym_us_dd_rms vs run
χ² / ndf 95.68 / 93
p0 774.9 ± 0.5835
800
795
790
785
780
775
770
765
760
755

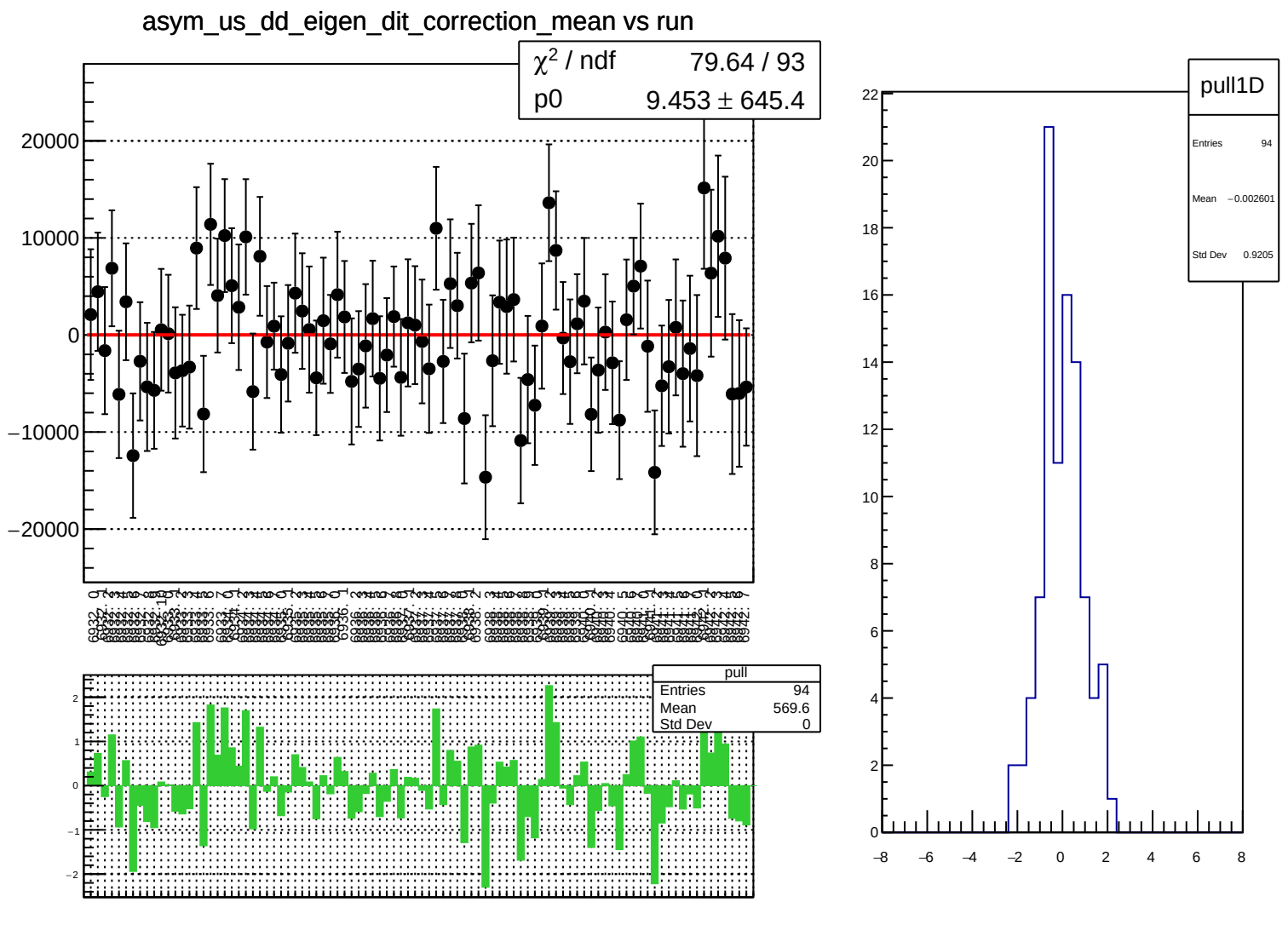

asym_us_dd_dit_correction_mean vs run
χ² / ndf 79.64 / 93
p0 9.458 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 569.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002601
Std Dev 0.9205
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

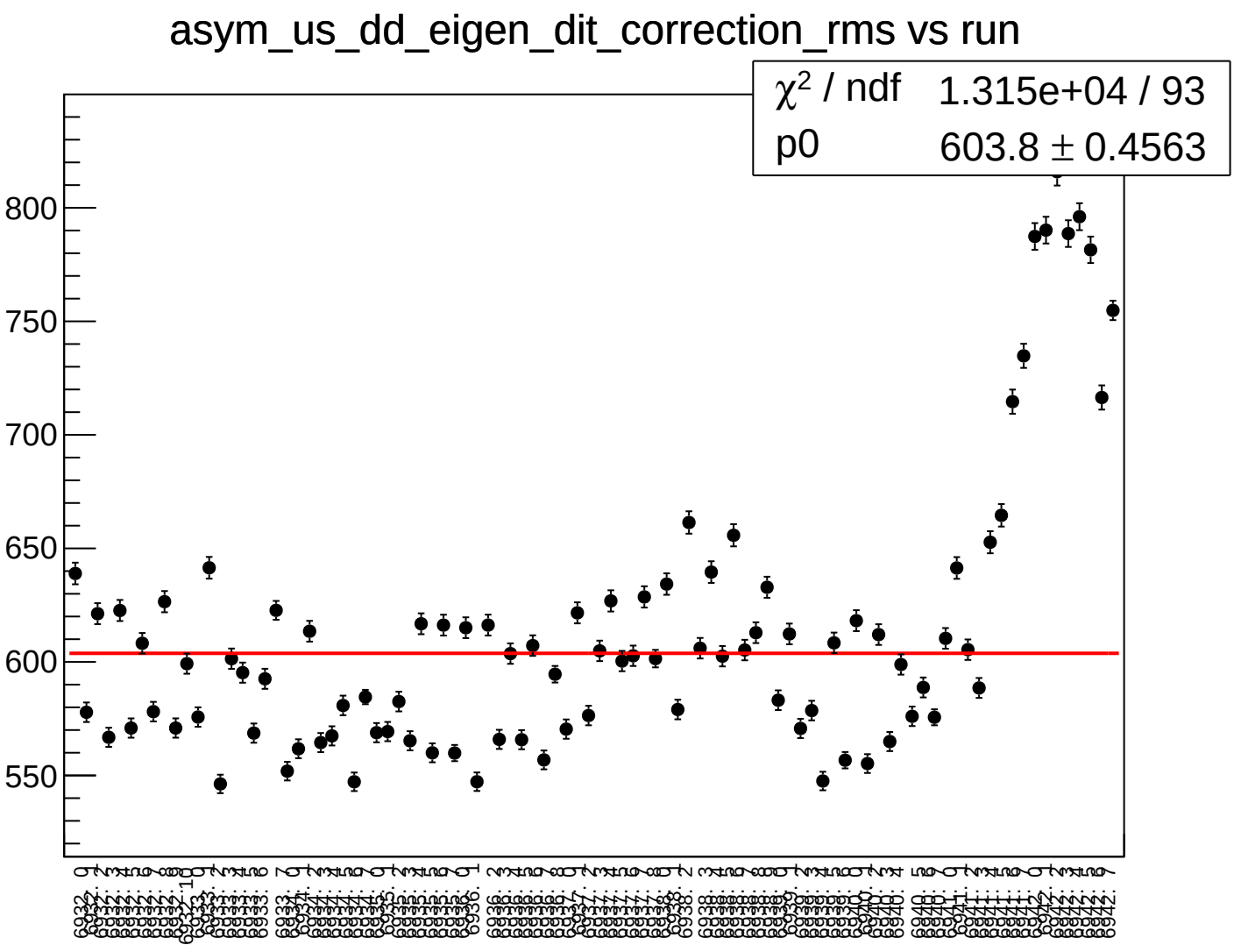

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.315e+04 / 93
p0 603.8 ± 0.4563
800
750
700
650
600
550

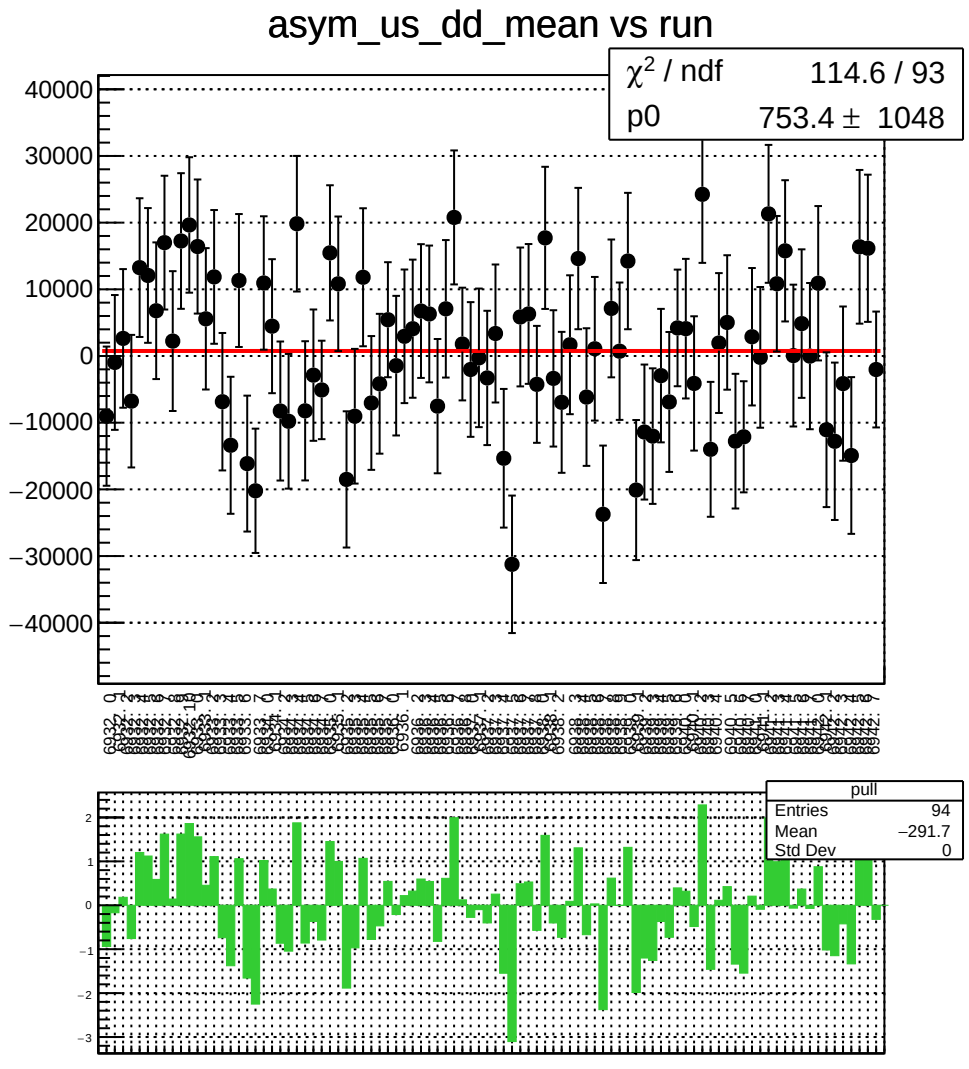

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 123.9 / 93
p0 740.9 ± 825.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −341.2
Std Dev 0
2
1
0
−1
−2

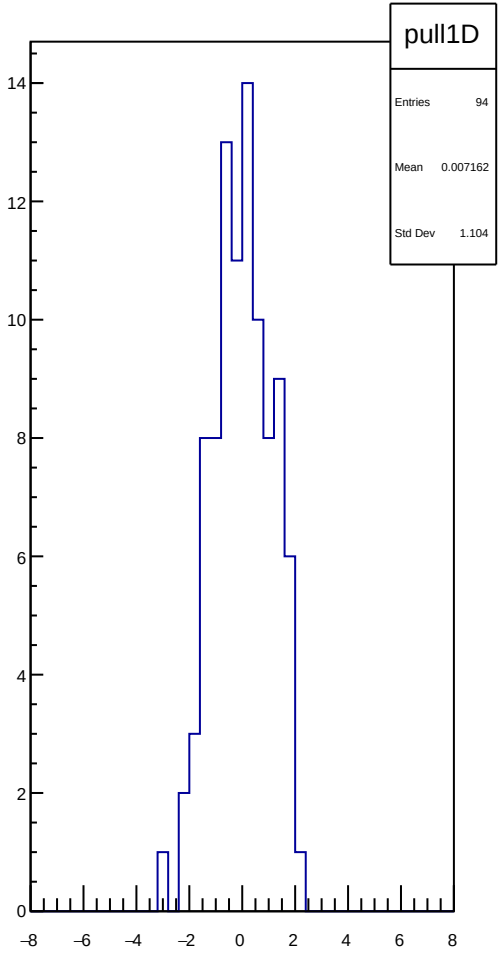

pull1D
Entries 94
Mean 0.009703
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

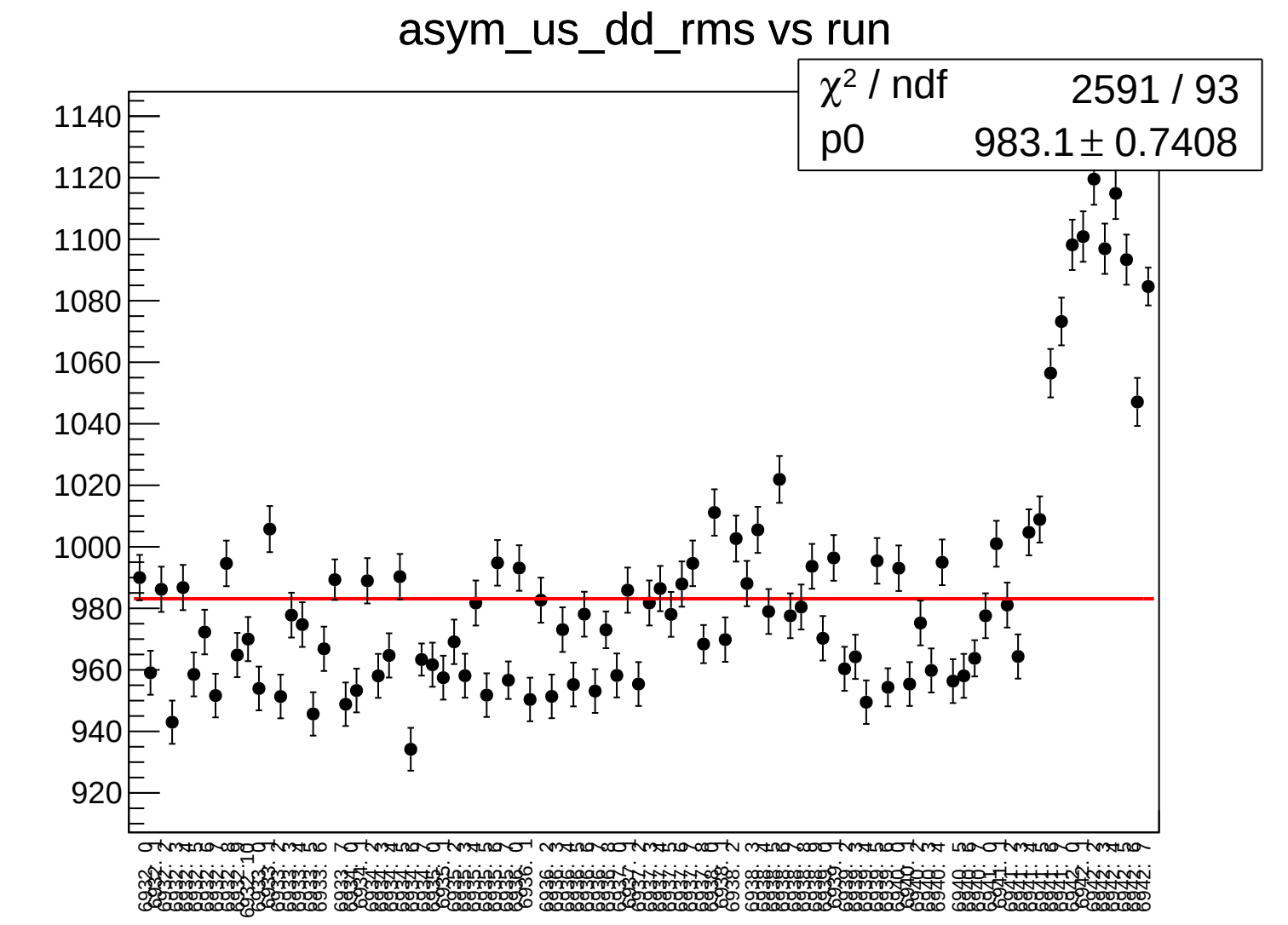

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 95.68 / 93
p0 774.9 ± 0.5835
800
795
790
785
780
775
770
765
760
755

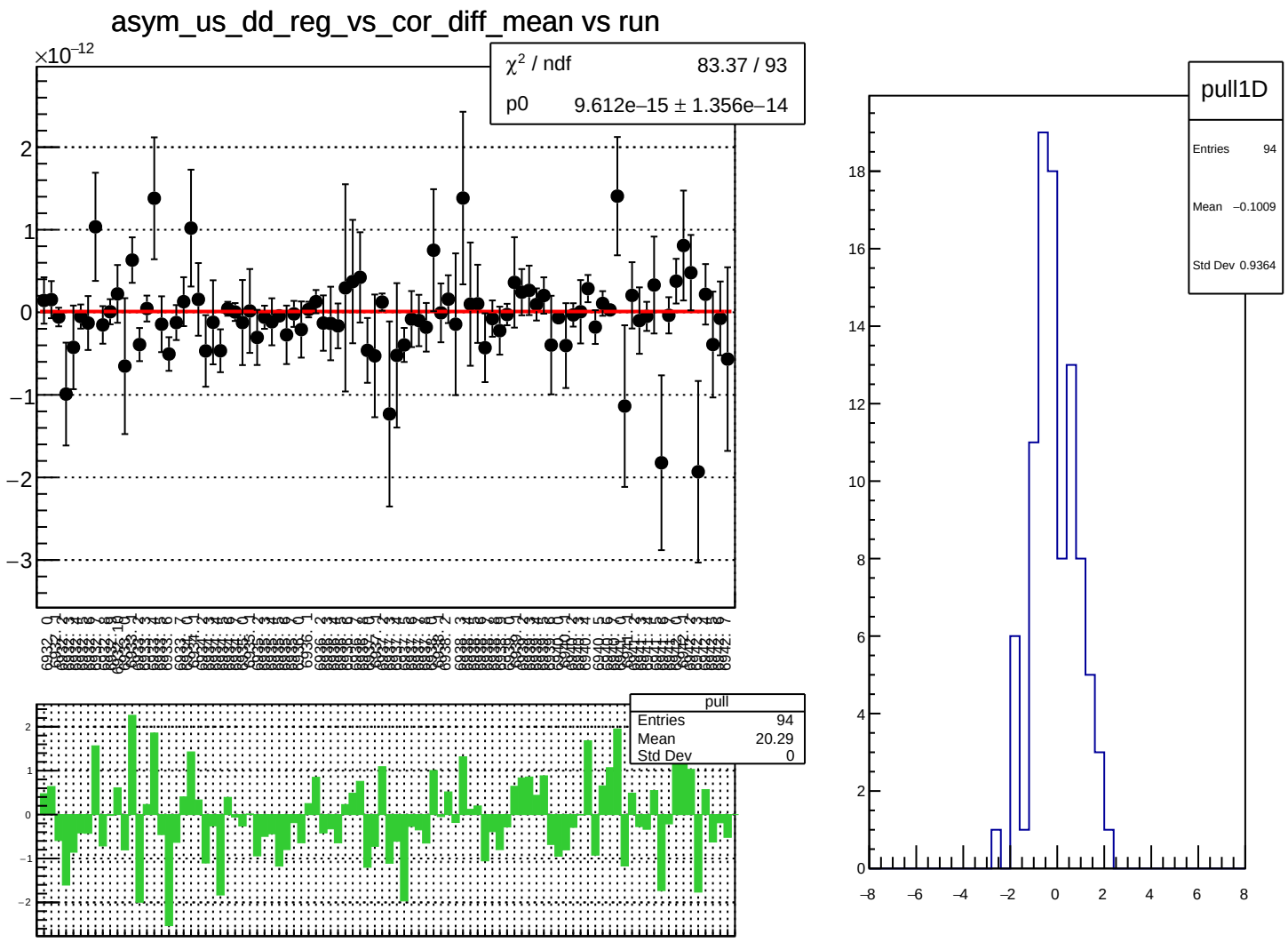

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.64 / 93
p0 9.453 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 569.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002601
Std Dev 0.9205
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

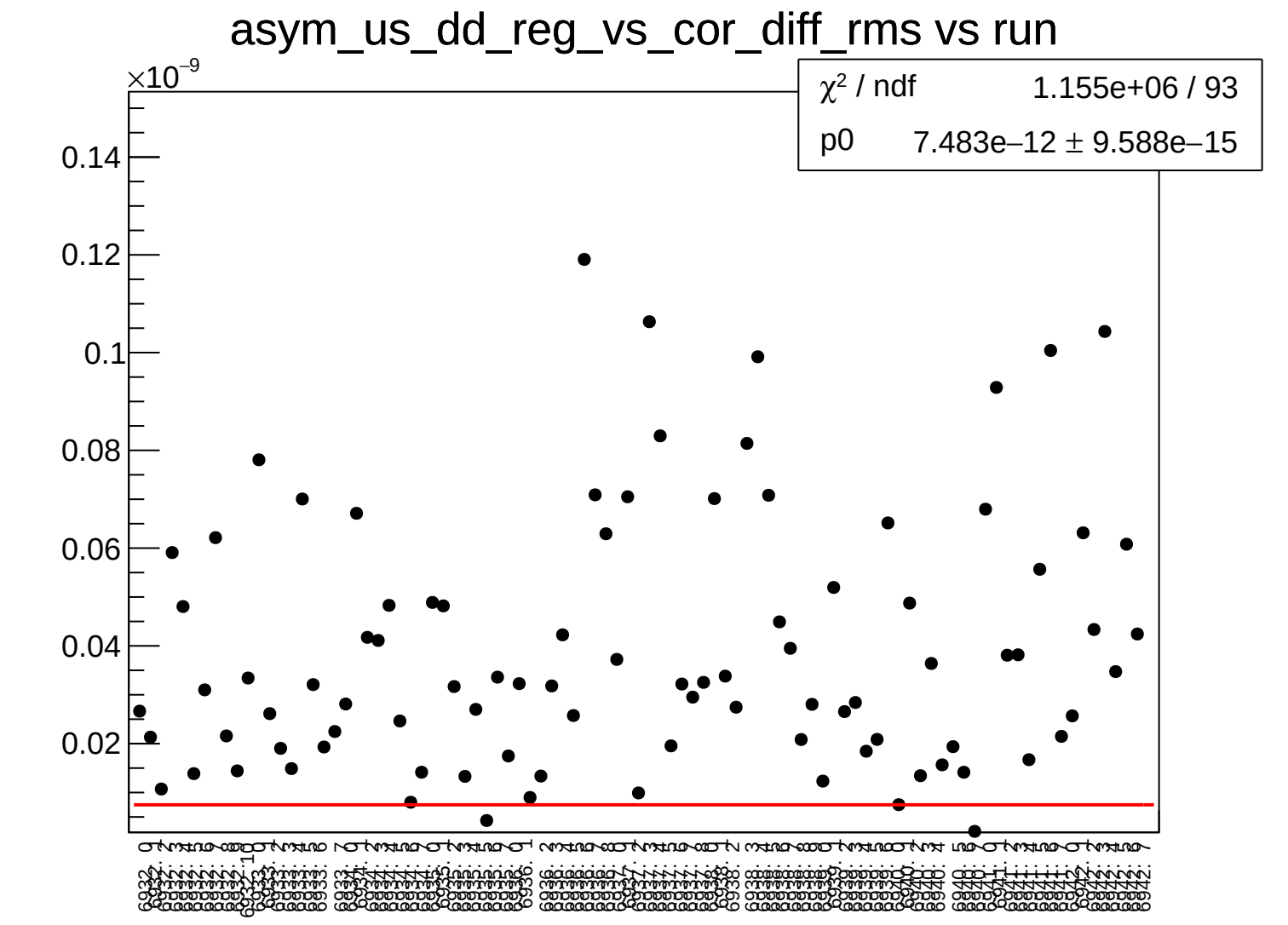

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.315e+04 / 93
p0 603.8 ± 0.4563
800
750
700
650
600
550

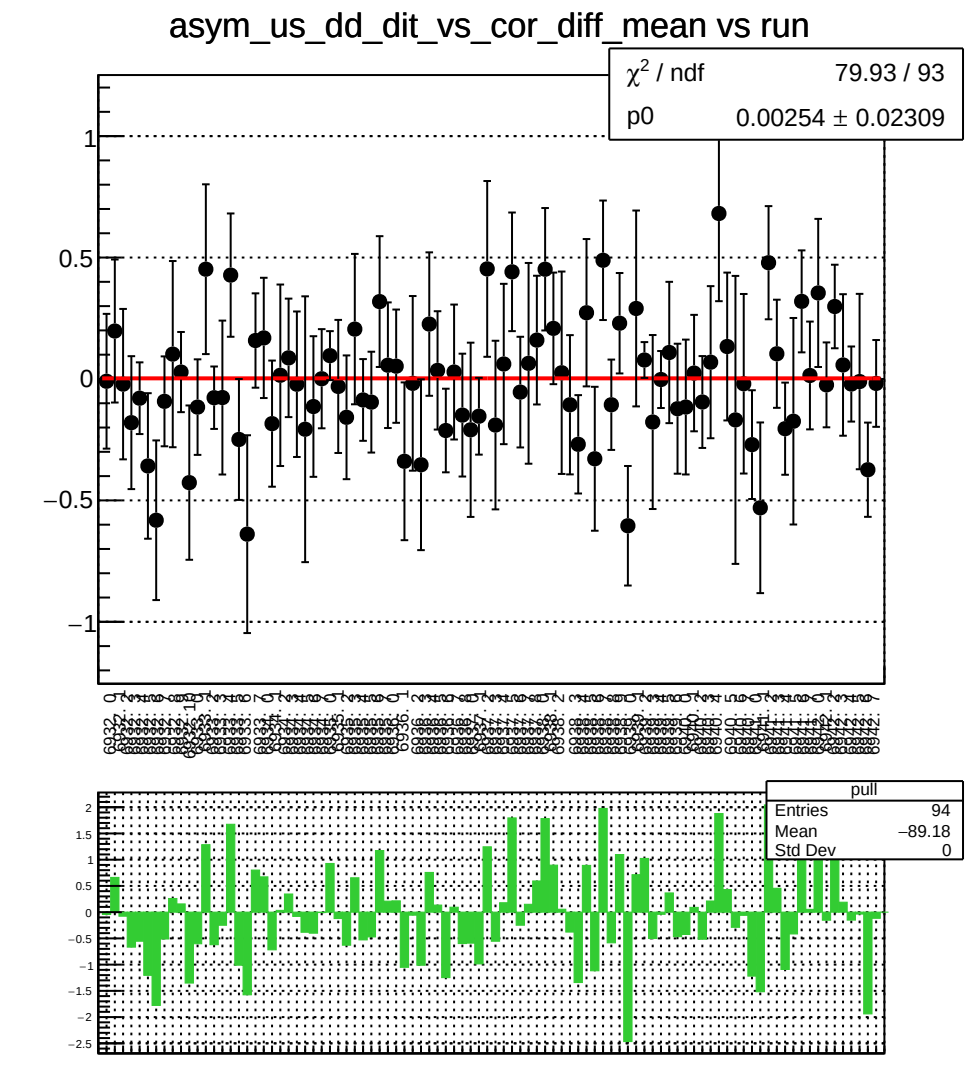

asym_us_dd_mean vs run
χ² / ndf 114.6 / 93
p0 753.4 ± 1048
pull
Entries 94
Mean −291.7
Std Dev 0

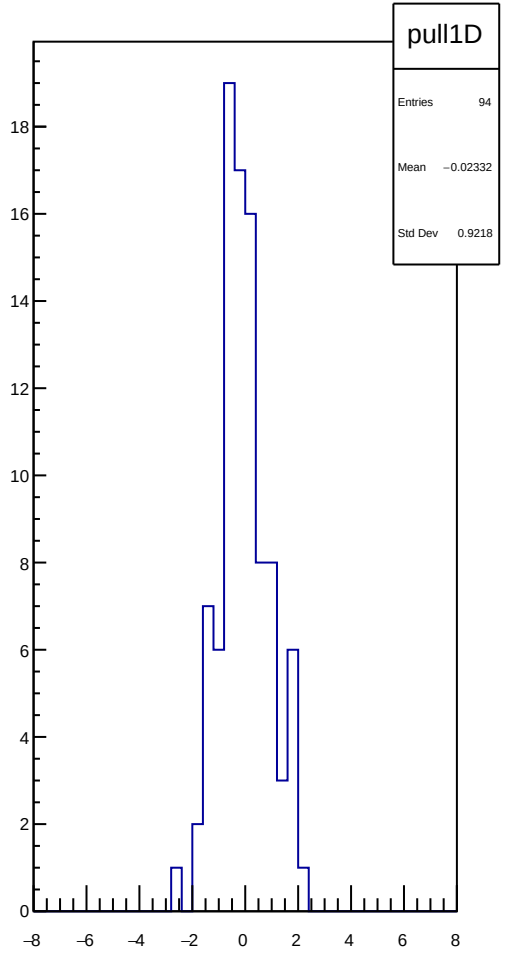

pull1D
Entries 94
Mean 0.007162
Std Dev 1.104

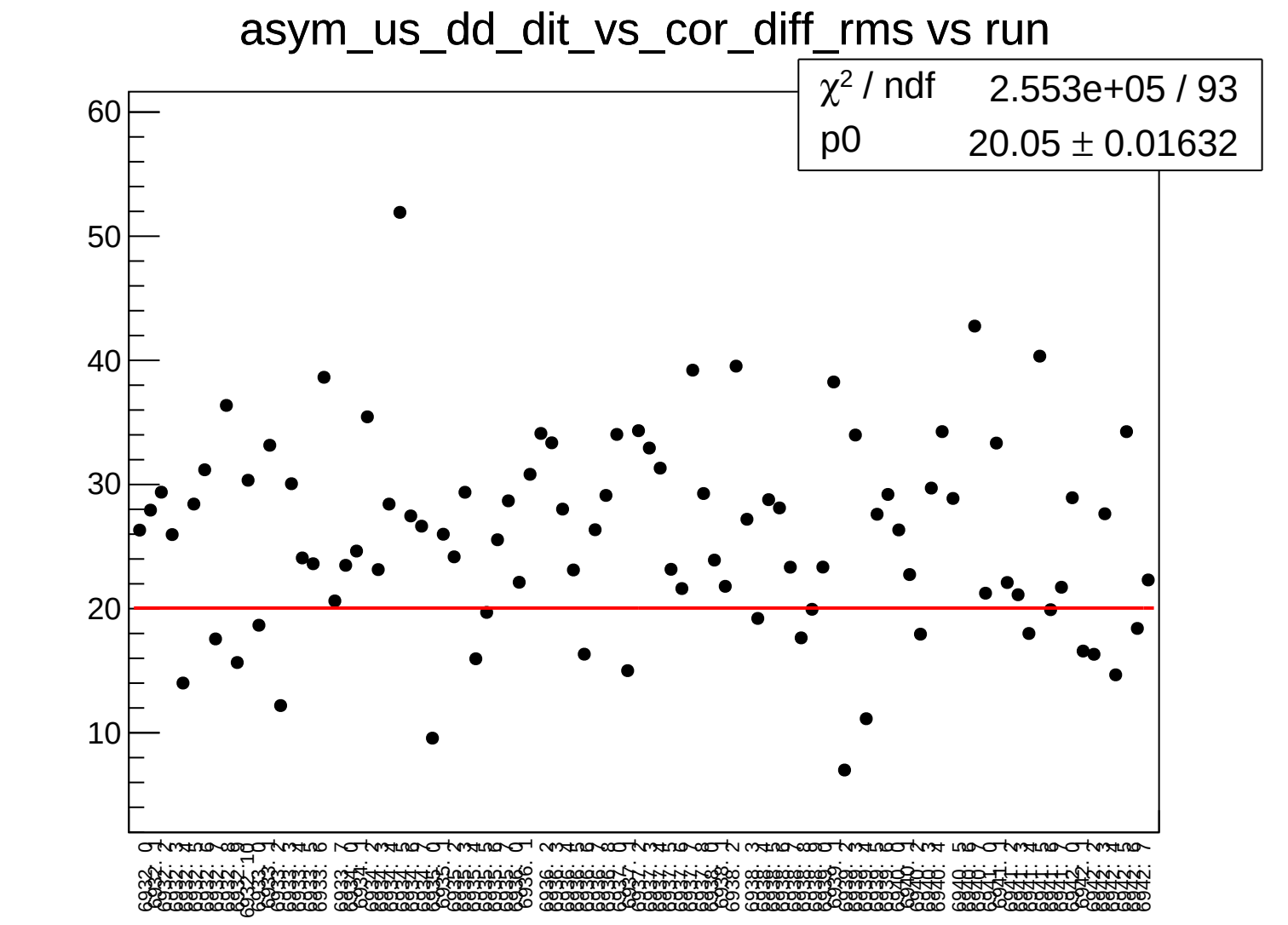

asym_us_dd_rms vs run
χ² / ndf 2591 / 93
p0 983.1 ± 0.7408
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

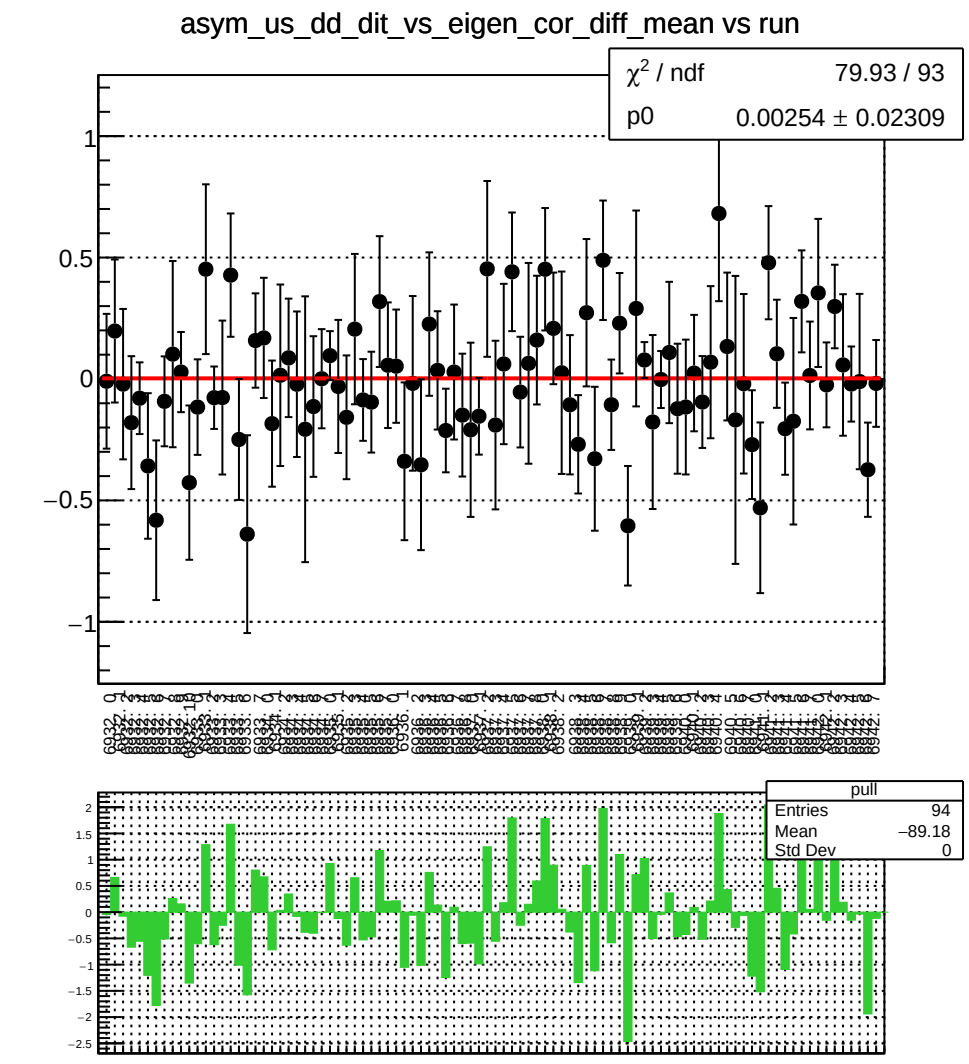

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.37 / 93
p0 9.612e−15 ± 1.356e−14
pull
Entries 94
Mean 20.29
Std Dev 0
pull1D
Entries 94
Mean −0.1009
Std Dev 0.9364

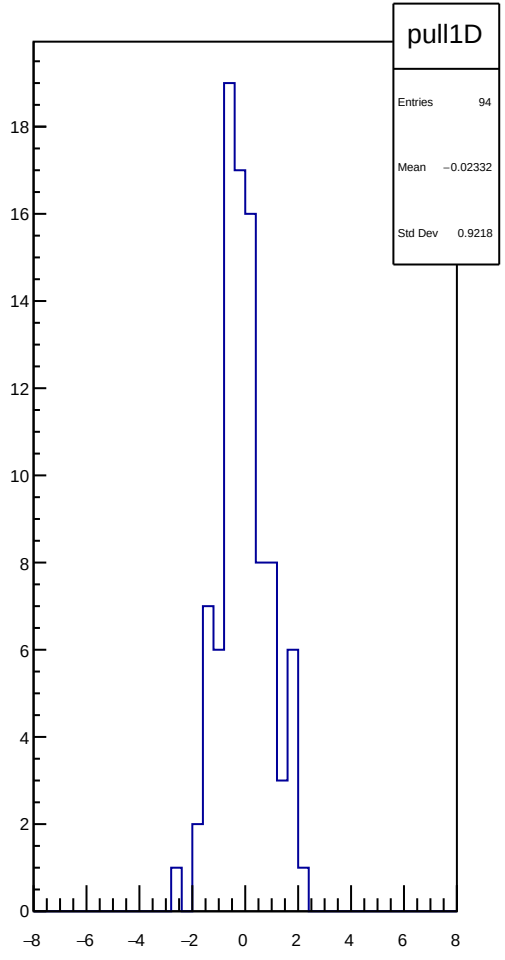

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.155e+06 / 93
p0 7.483e−12 ± 9.588e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

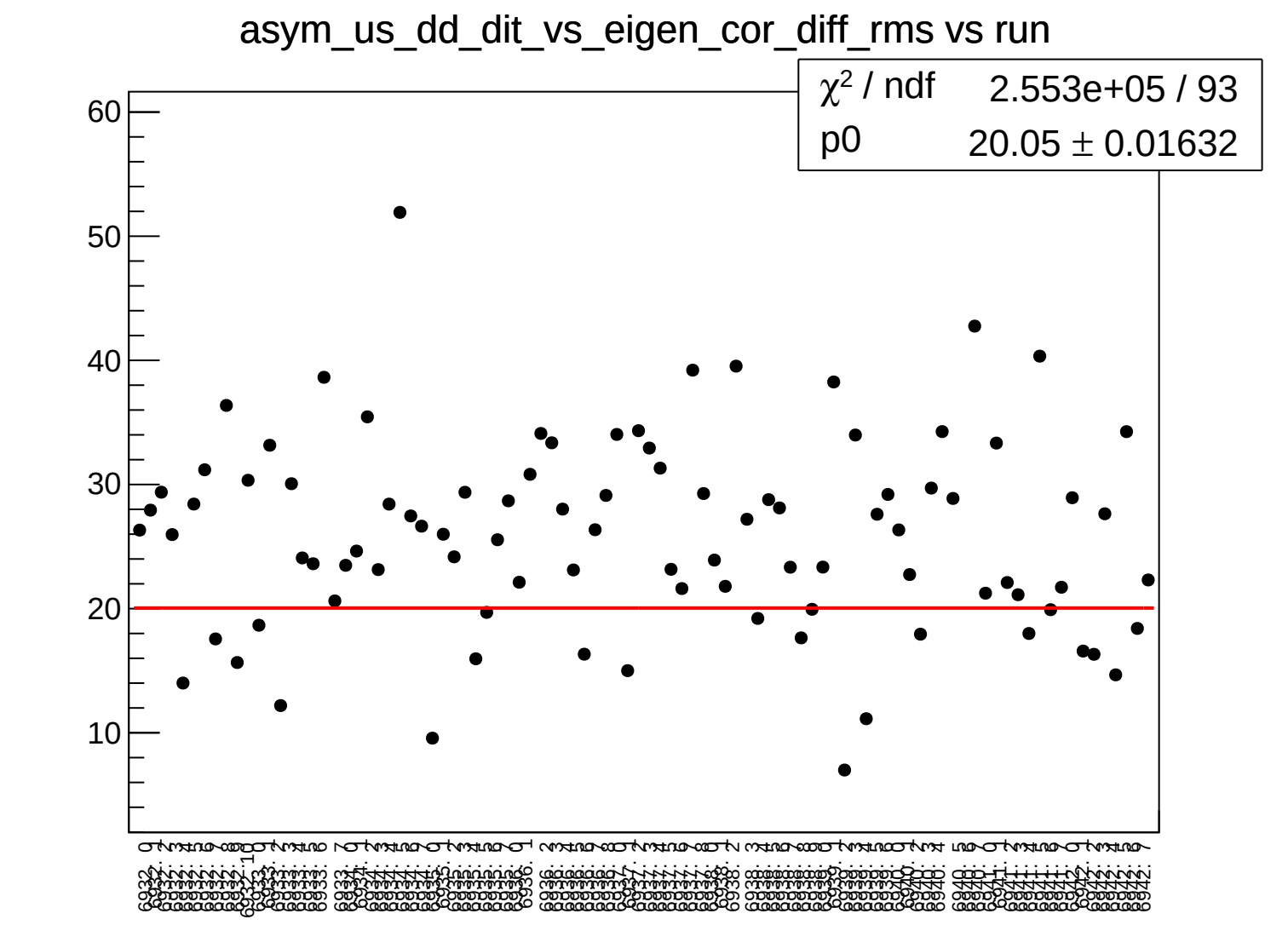

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.93 / 93
p0 0.00254 ± 0.02309
pull
Entries 94
Mean −89.18
Std Dev 0

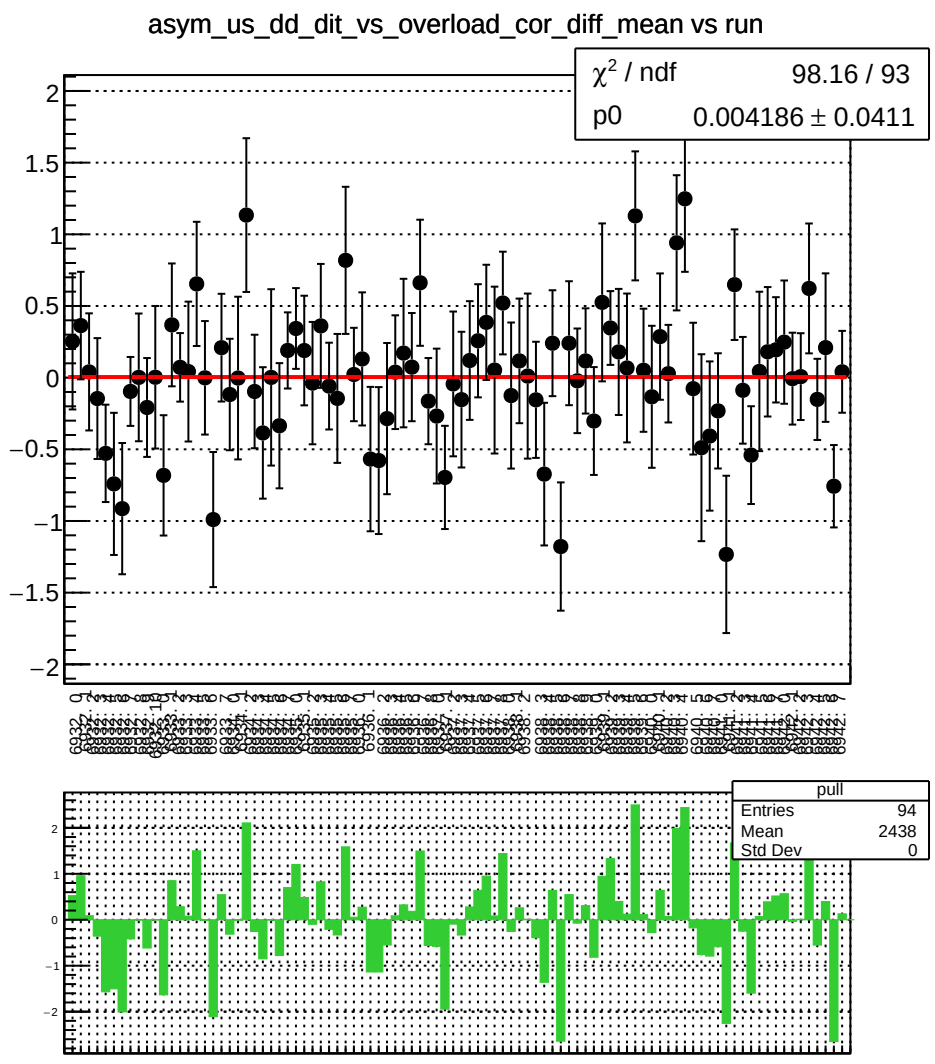

pull1D
Entries 94
Mean −0.02332
Std Dev 0.9218

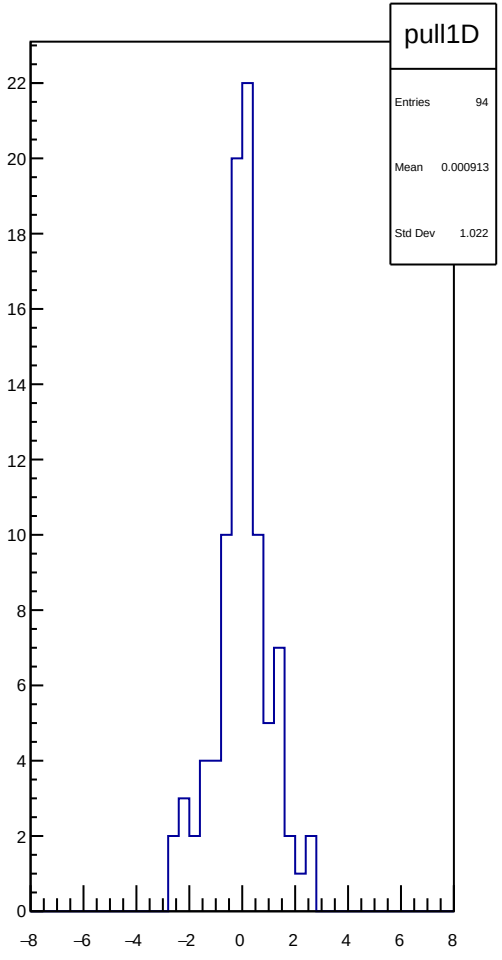

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.553e+05 / 93
p0 20.05 ± 0.01632
60
50
40
30
20
10

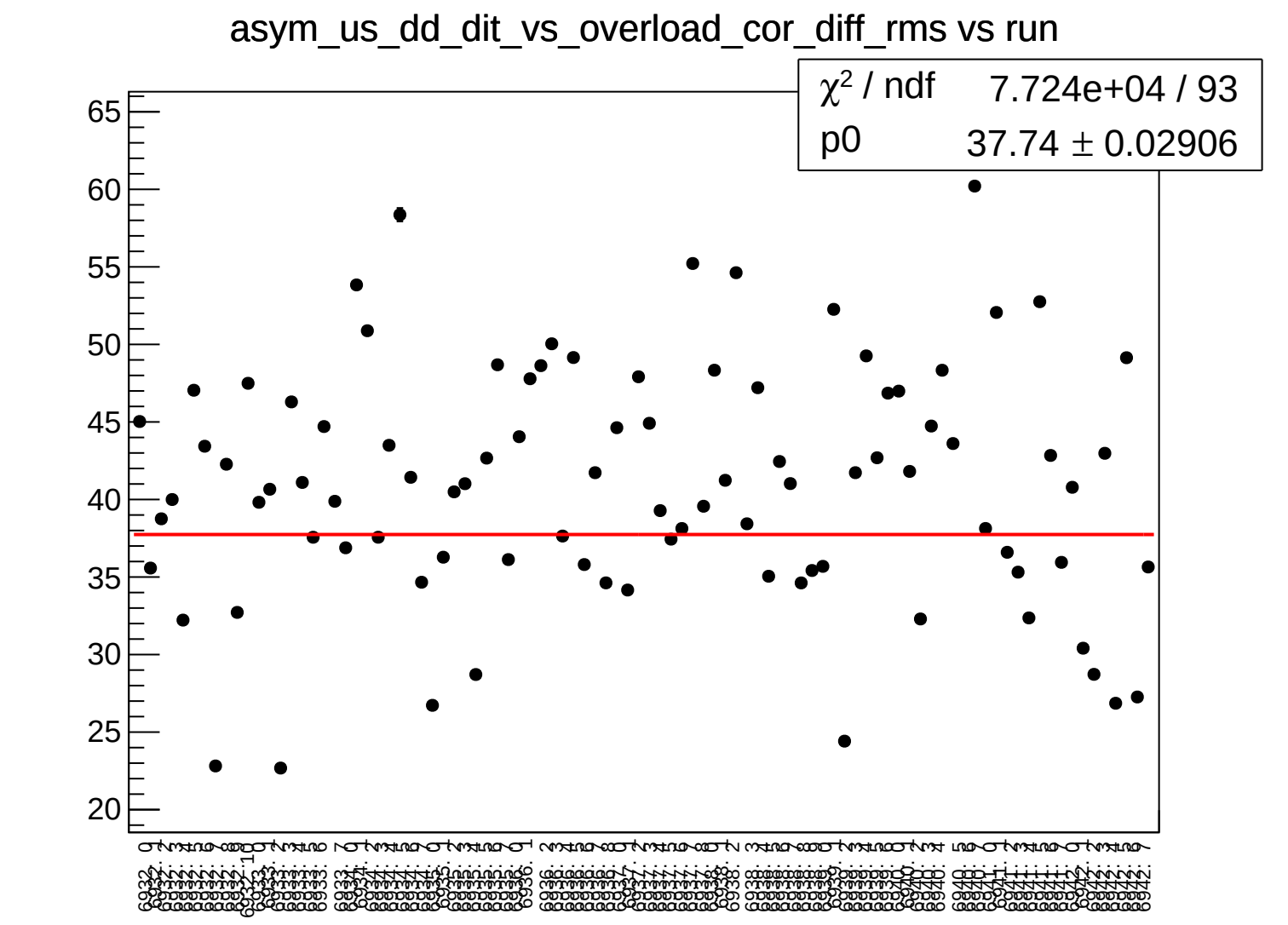

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.93 / 93
p0 0.00254 ± 0.02309
pull
Entries 94
Mean −89.18
Std Dev 0

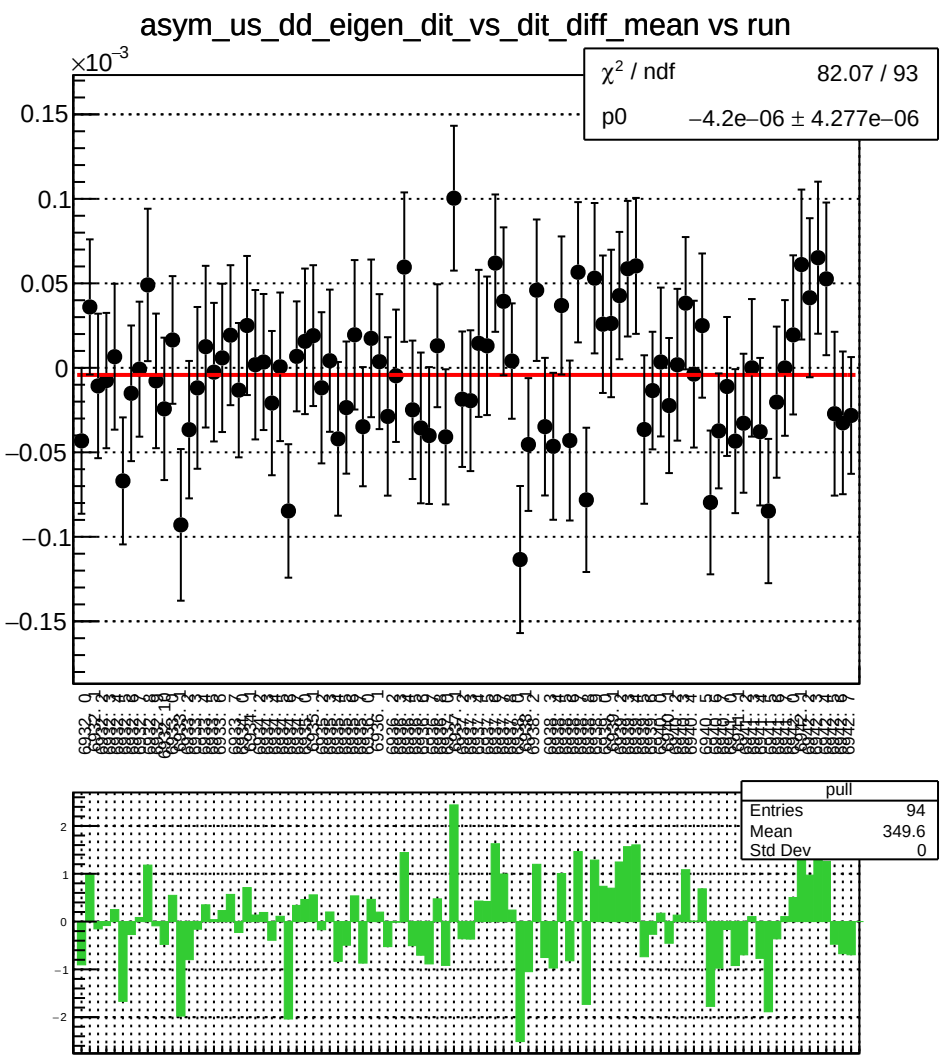

pull1D
Entries 94
Mean −0.02332
Std Dev 0.9218

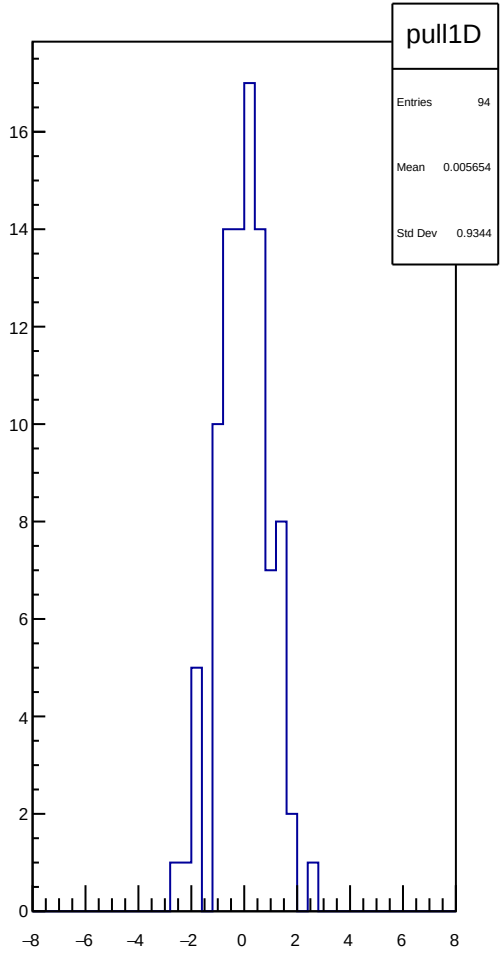

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.553e+05 / 93
p0 20.05 ± 0.01632
60
50
40
30
20
10

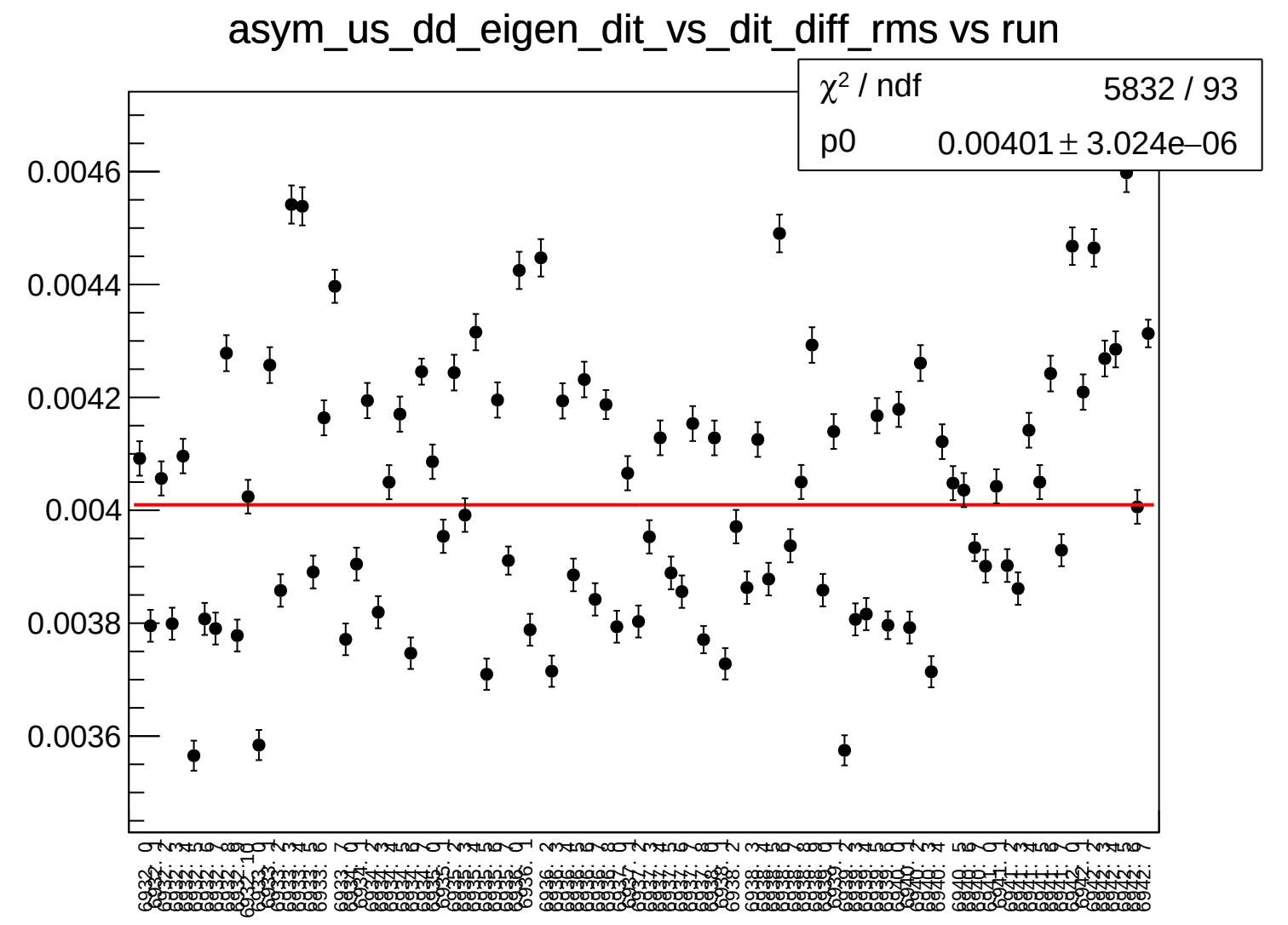

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.16 / 93
p0 0.004186 ± 0.0411
pull
Entries 94
Mean 2438
Std Dev 0

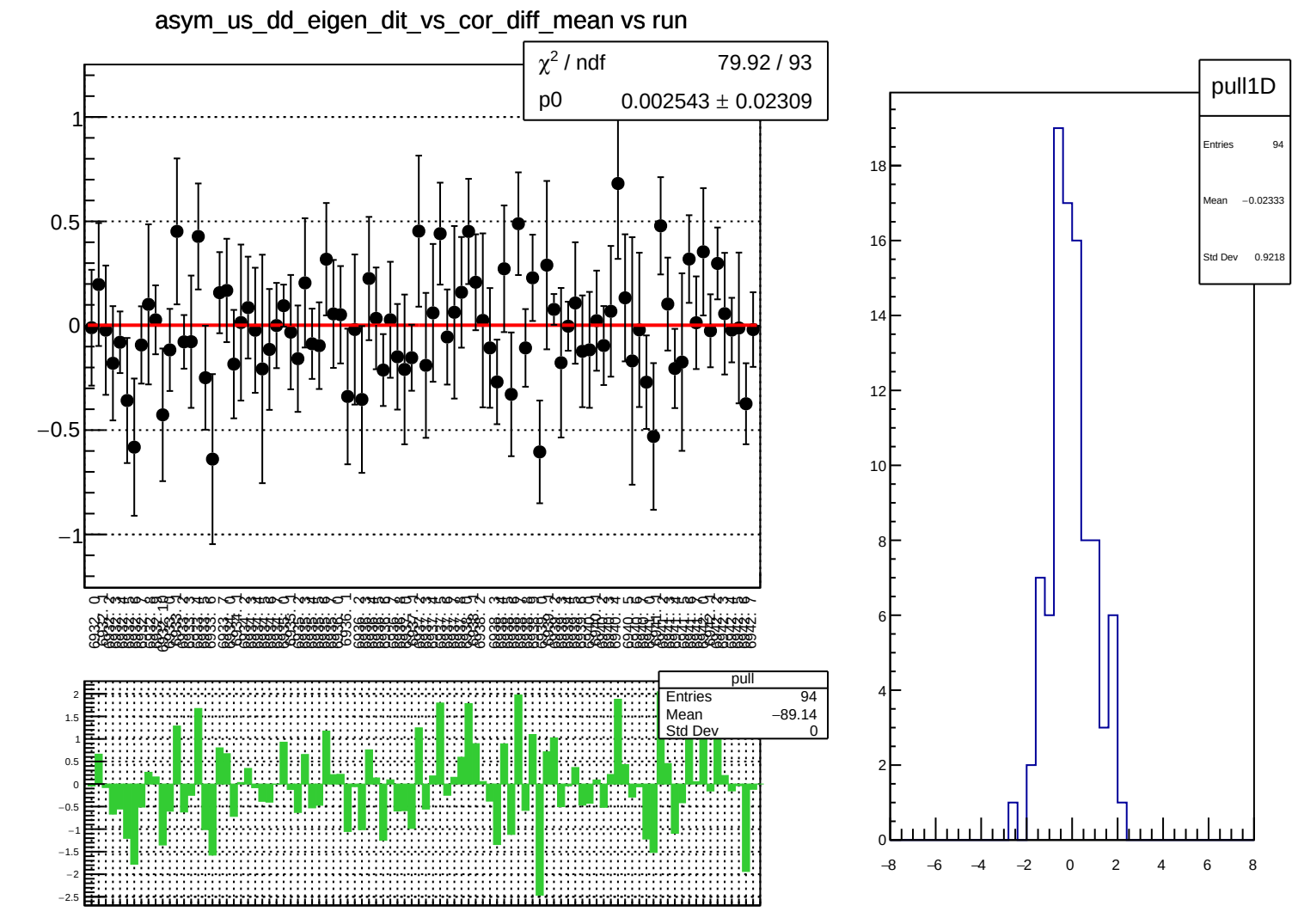

pull1D
Entries 94
Mean 0.000913
Std Dev 1.022

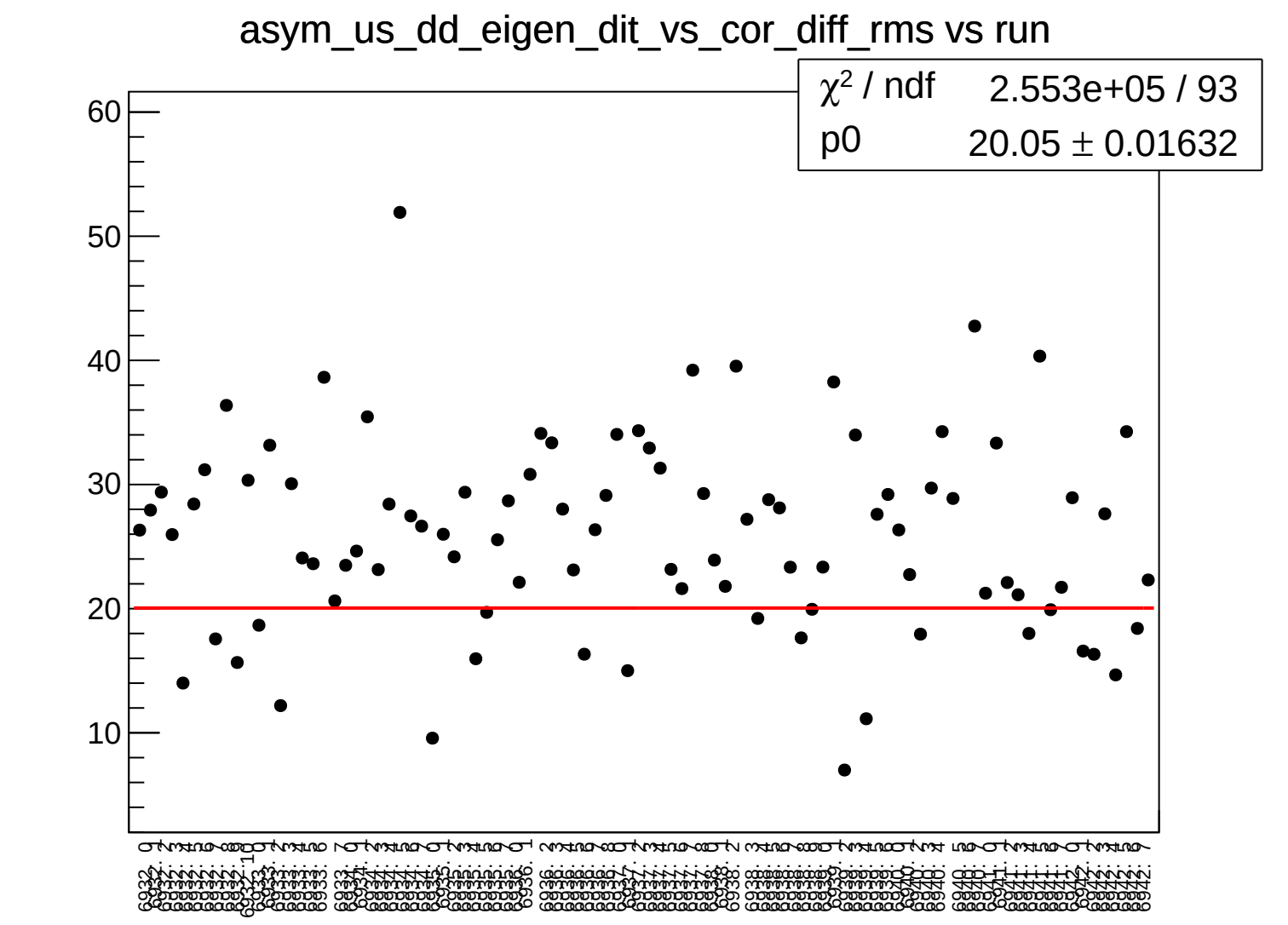

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.724e+04 / 93
p0 37.74 ± 0.02906
65
60
55
50
45
40
35
30
25
20

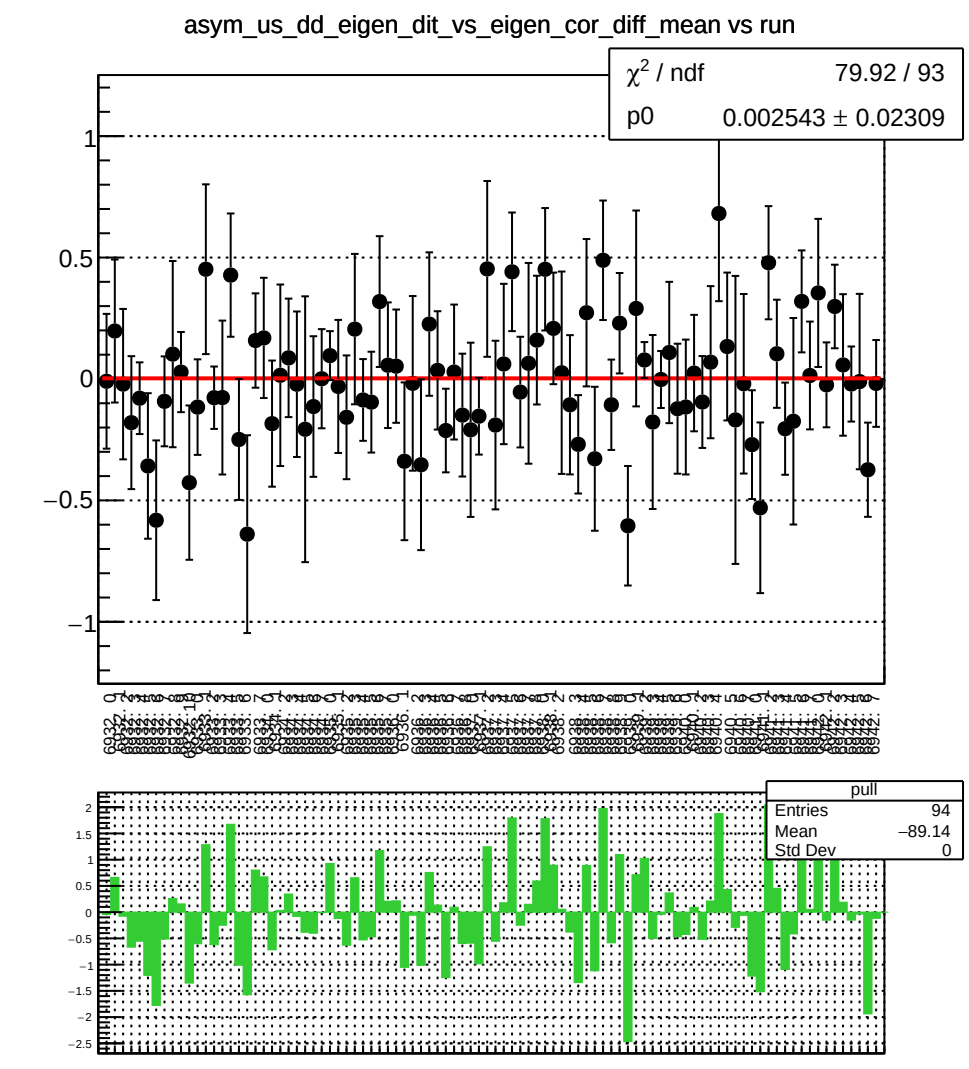

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.07 / 93
p0 −4.2e−06 ± 4.277e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 349.6
Std Dev 0
2
1
0
−1
−2

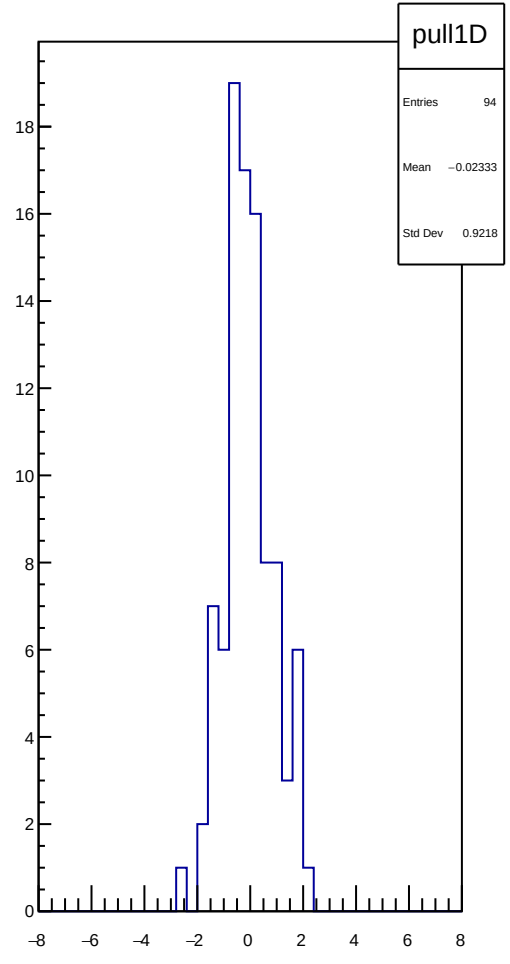

pull1D
Entries 94
Mean 0.005654
Std Dev 0.9344
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

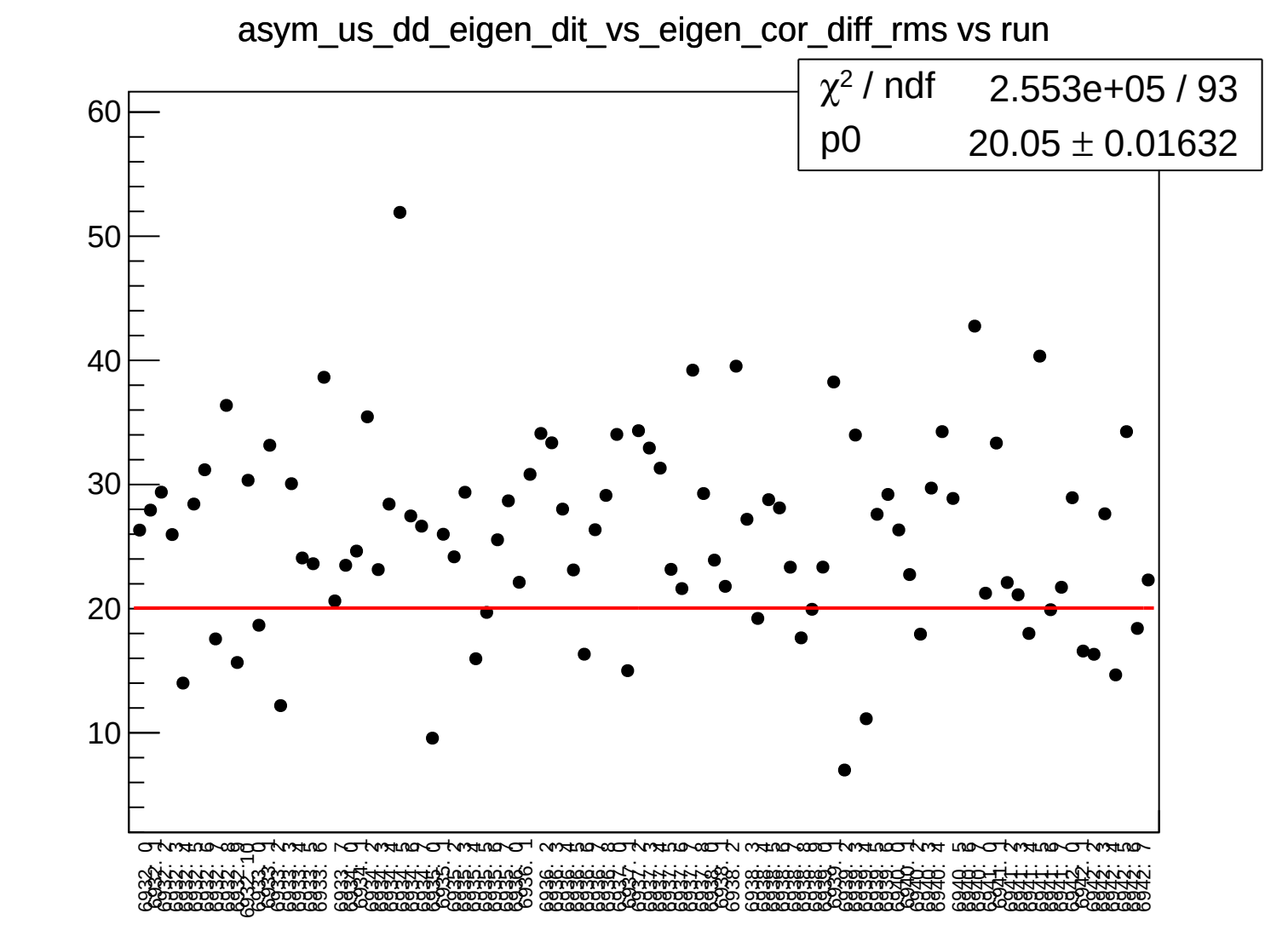

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5832 / 93
p0 0.00401 ± 3.024e–06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

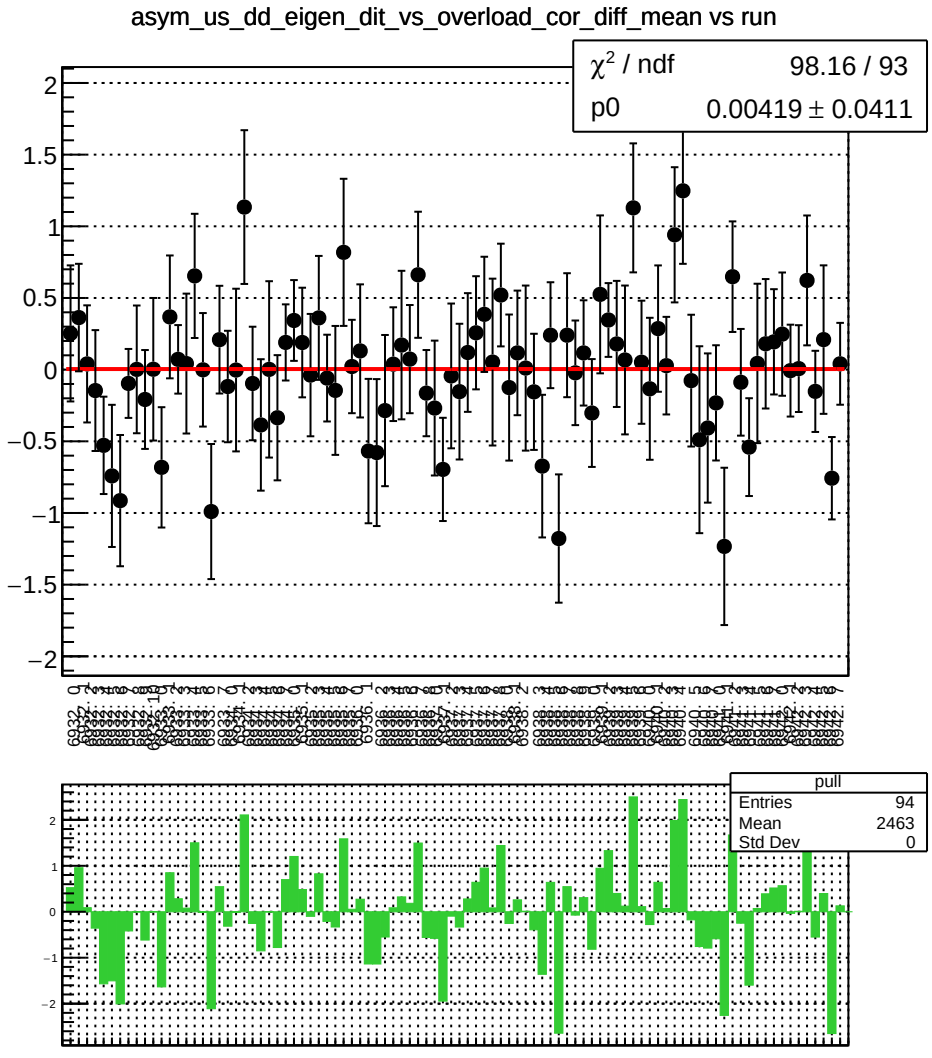

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 93
p0 0.002543 ± 0.02309
pull
Entries 94
Mean −89.14
Std Dev 0
pull1D
Entries 94
Mean −0.02333
Std Dev 0.9218

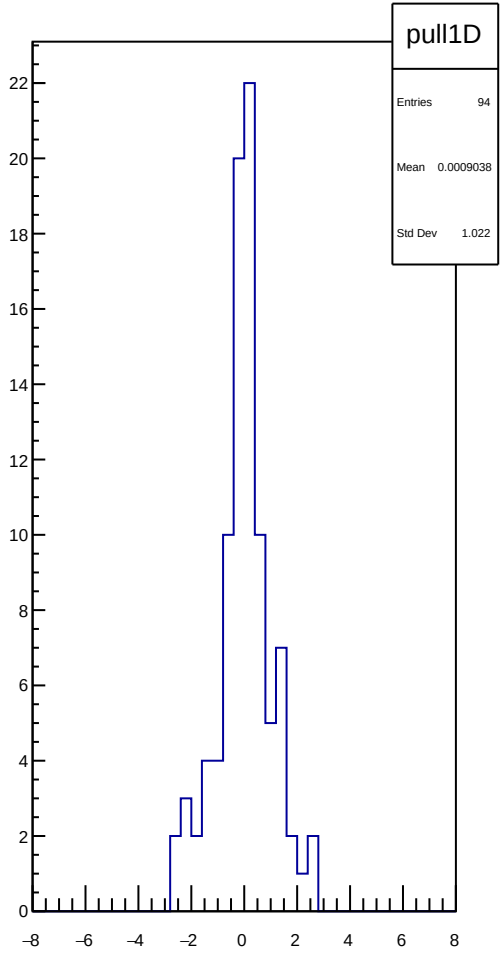

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.553e+05 / 93
p0 20.05 ± 0.01632
60
50
40
30
20
10

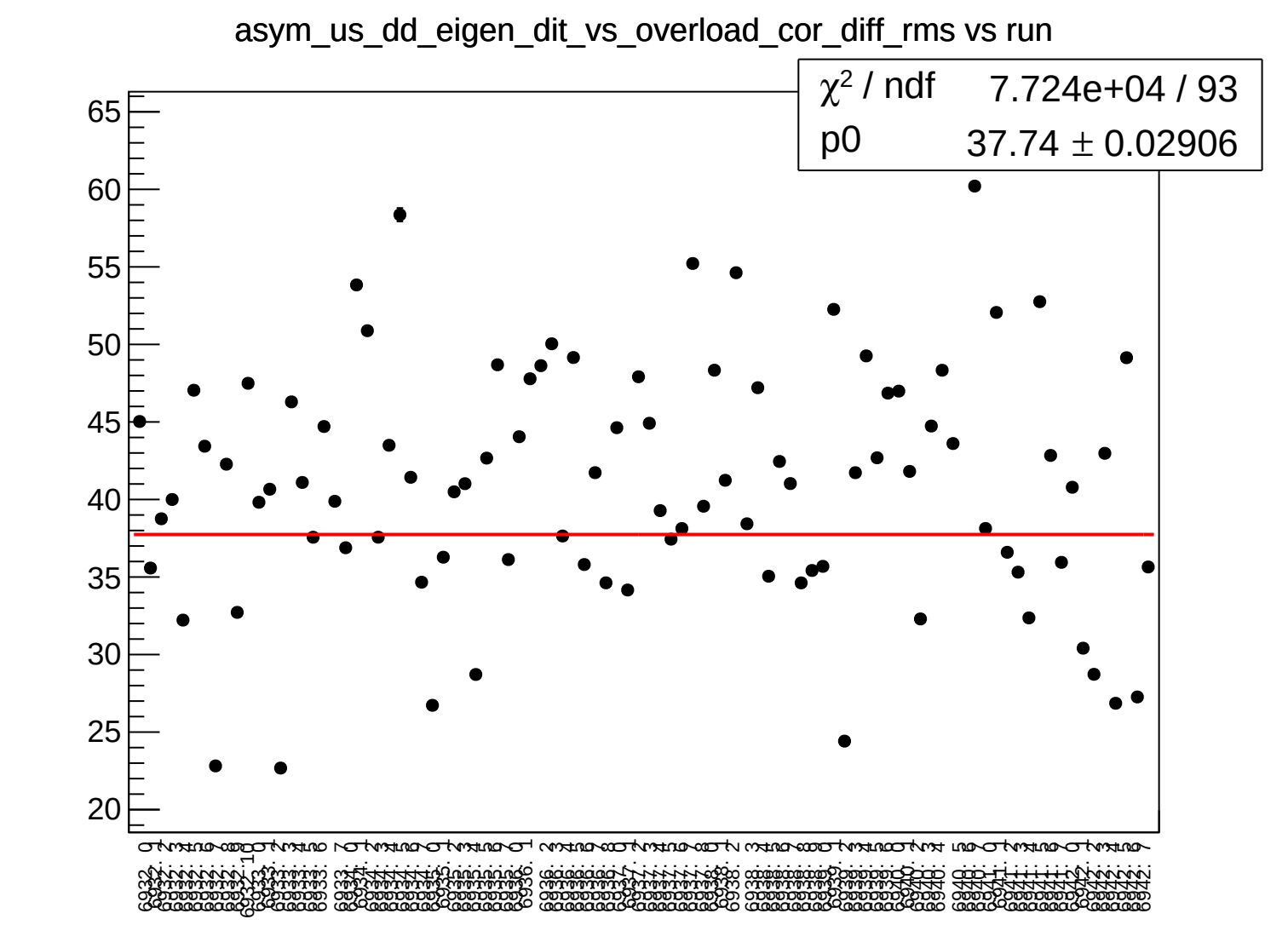

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.92 / 93
p0 0.002543 ± 0.02309
pull
Entries 94
Mean −89.14
Std Dev 0

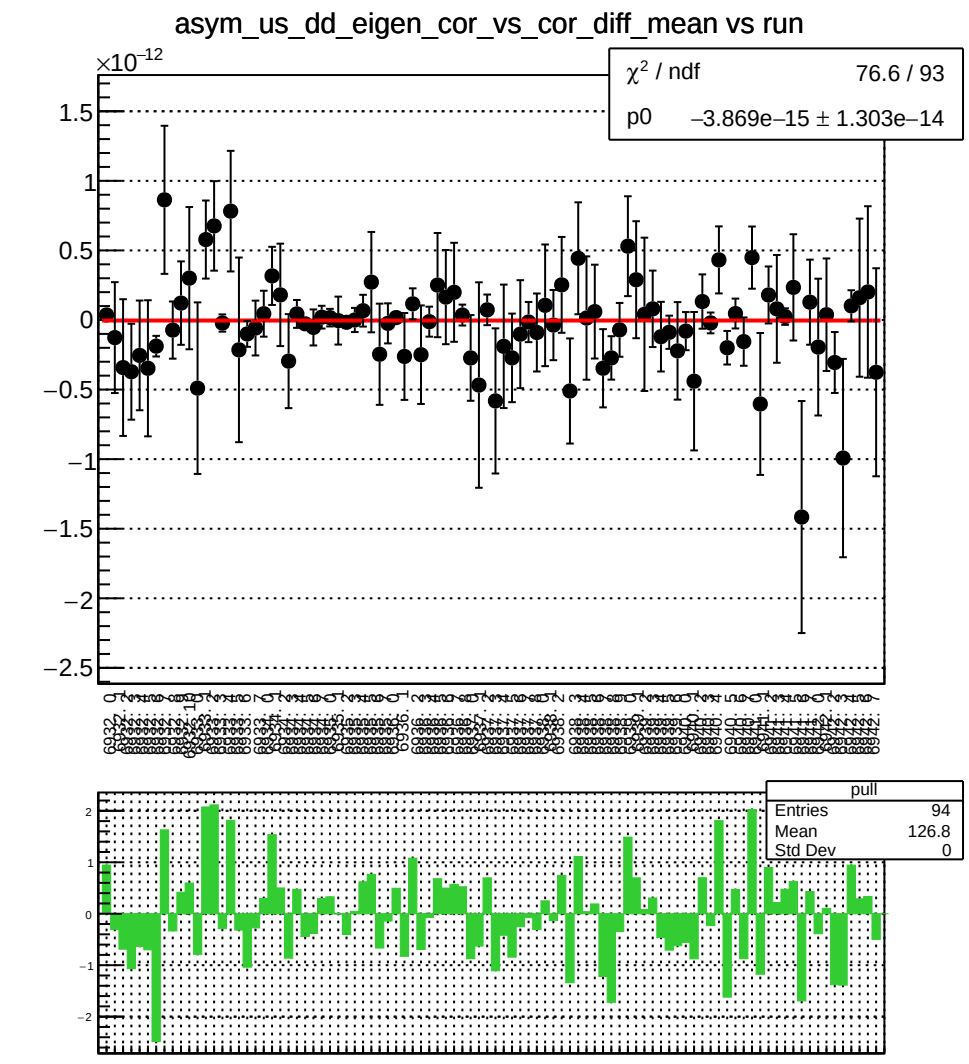

pull1D
Entries 94
Mean −0.02333
Std Dev 0.9218

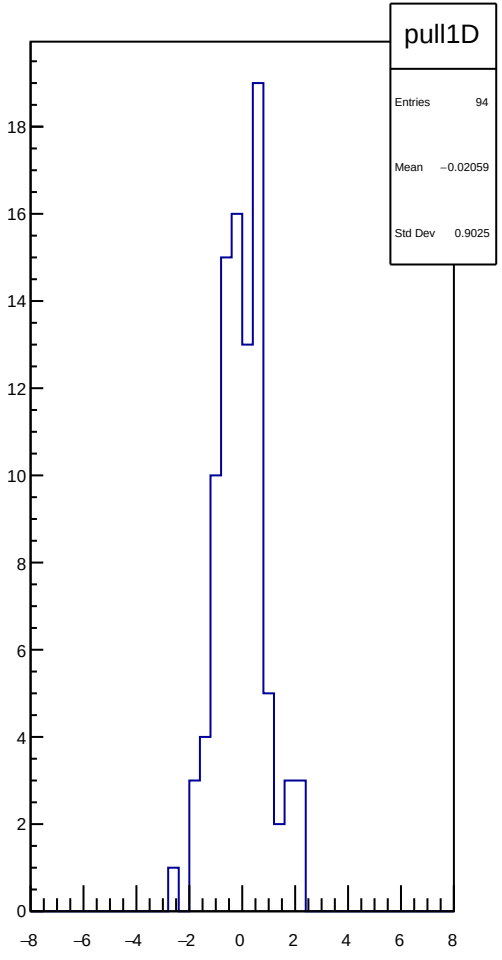

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.553e+05 / 93
p0 20.05 ± 0.01632
60
50
40
30
20
10

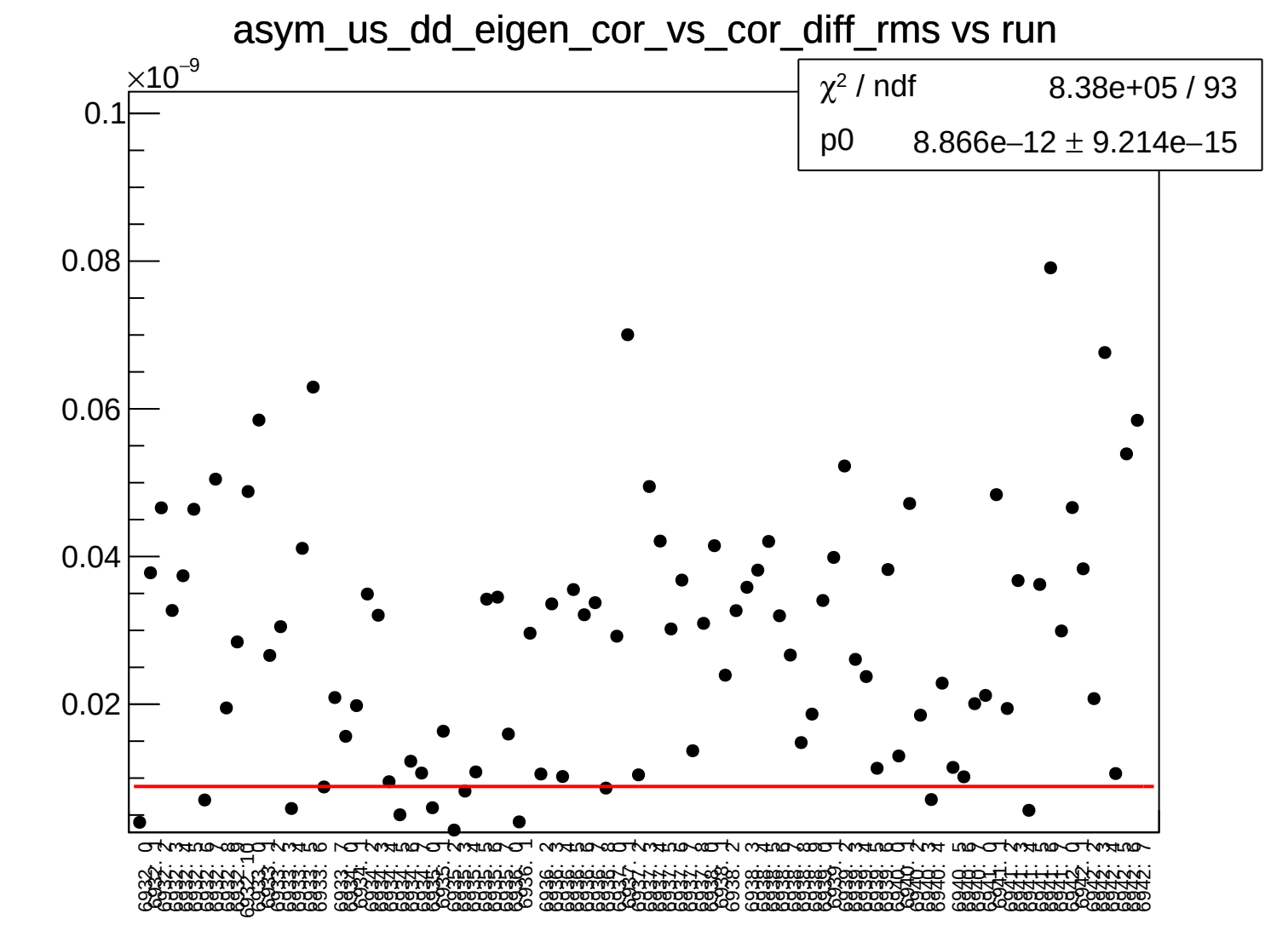

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.16 / 93
p0 0.00419 ± 0.0411
pull
Entries 94
Mean 2463
Std Dev 0

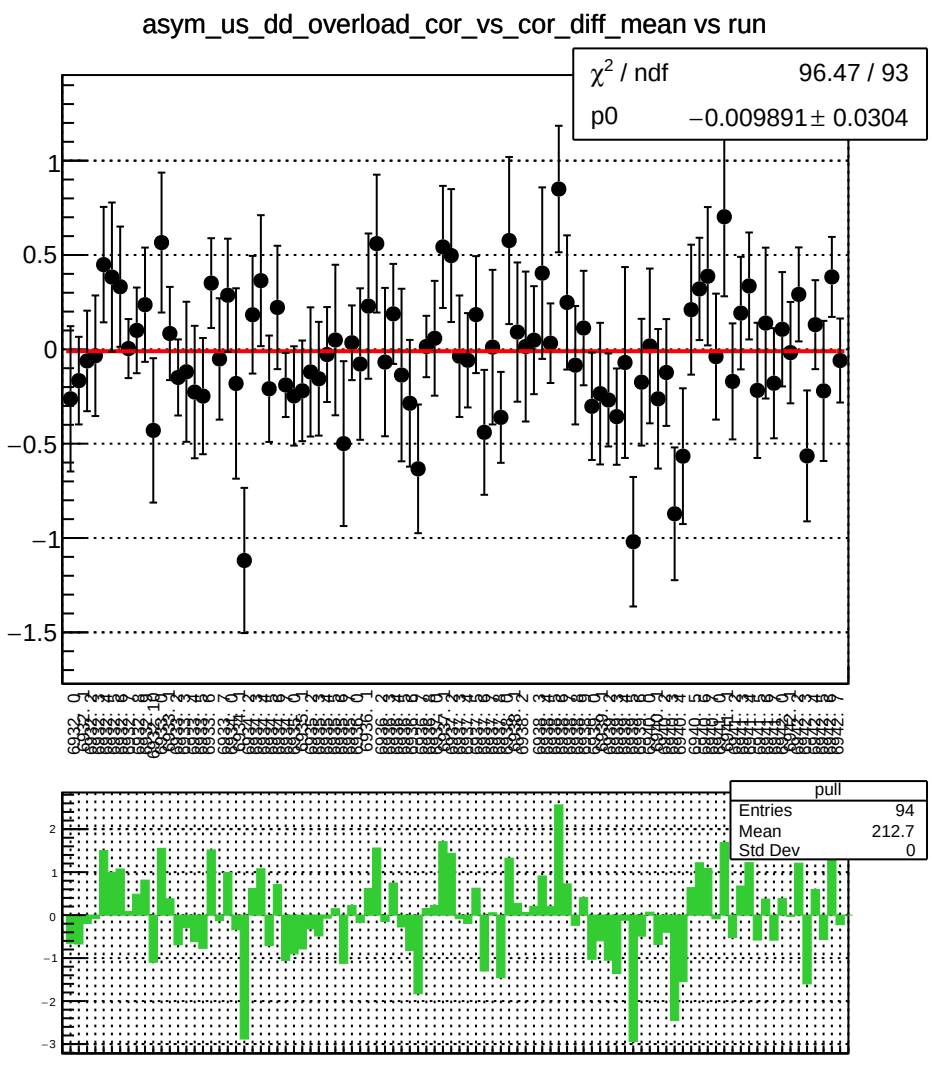

pull1D
Entries 94
Mean 0.0009038
Std Dev 1.022

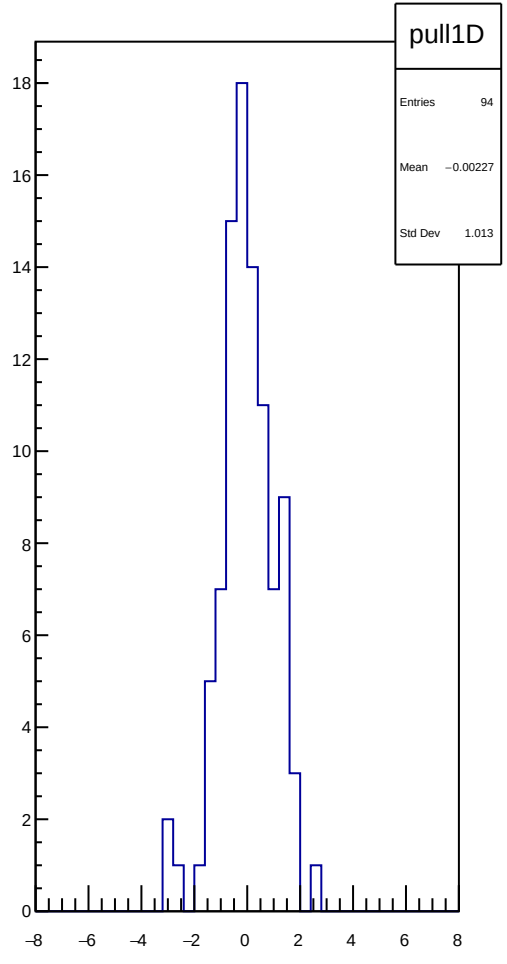

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.724e+04 / 93
p0 37.74 ± 0.02906
65
60
55
50
45
40
35
30
25
20

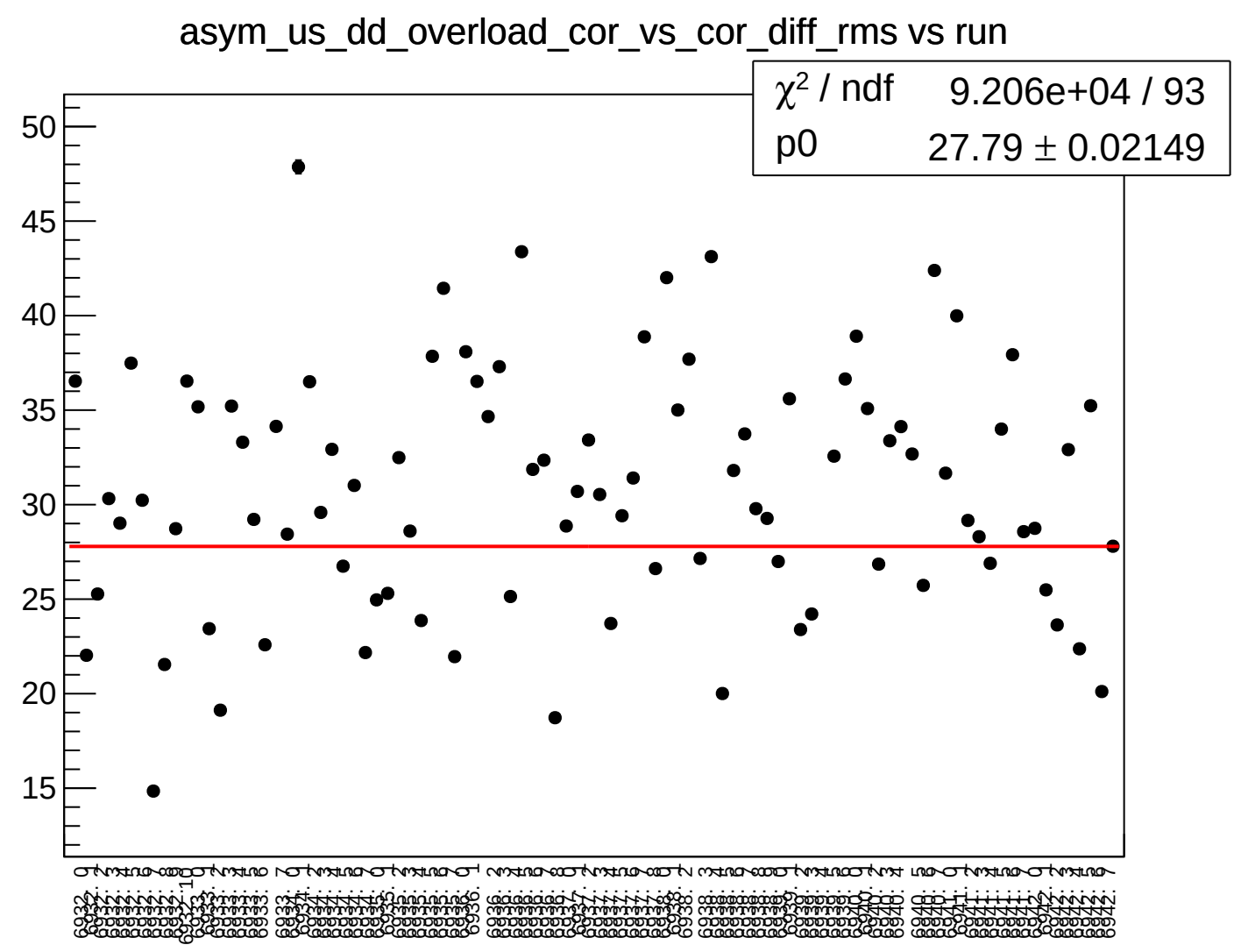

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.6 / 93
p0 −3.869e−15 ± 1.303e−14
pull
Entries 94
Mean 126.8
Std Dev 0

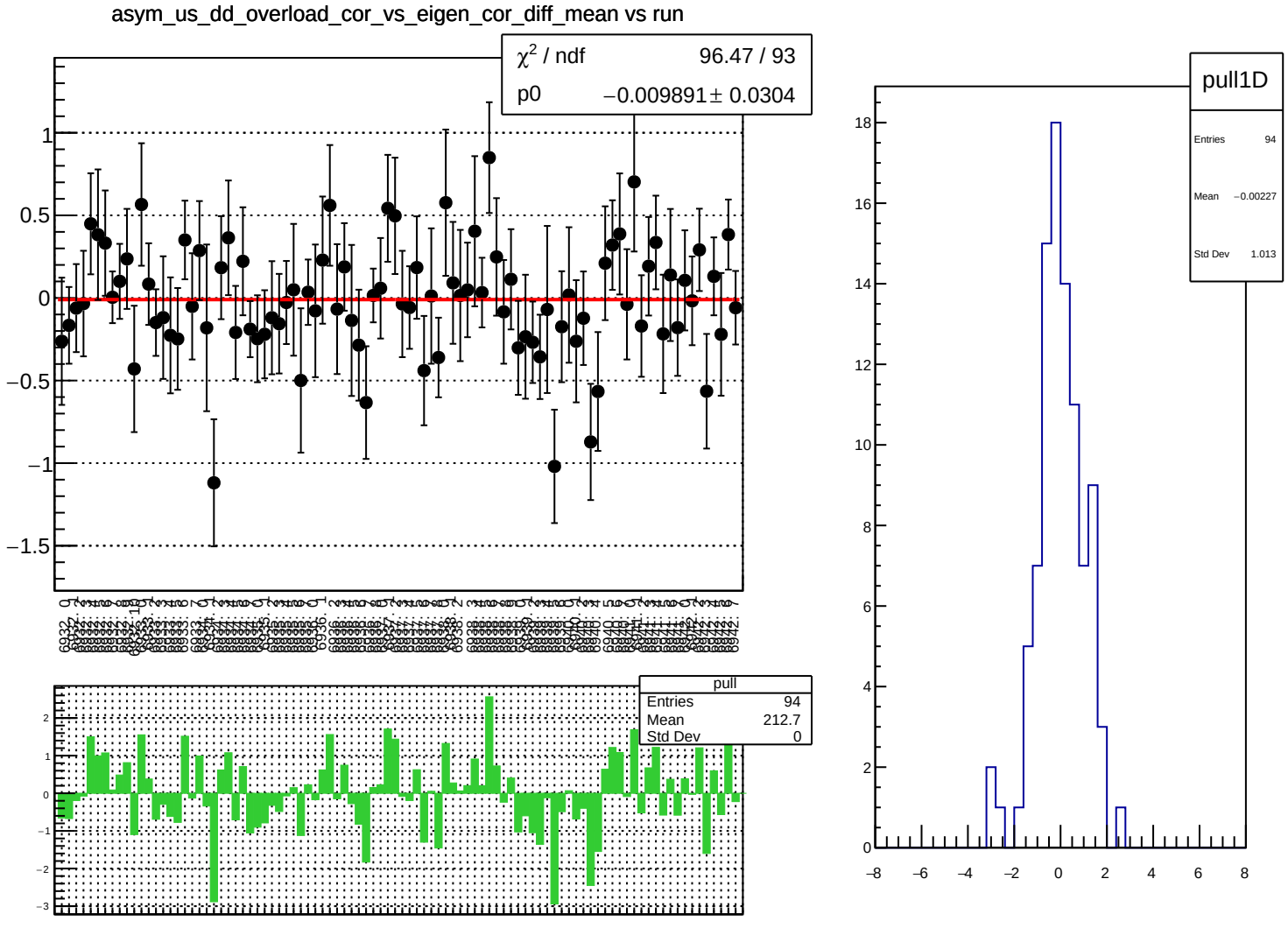

pull1D
Entries 94
Mean −0.02059
Std Dev 0.9025

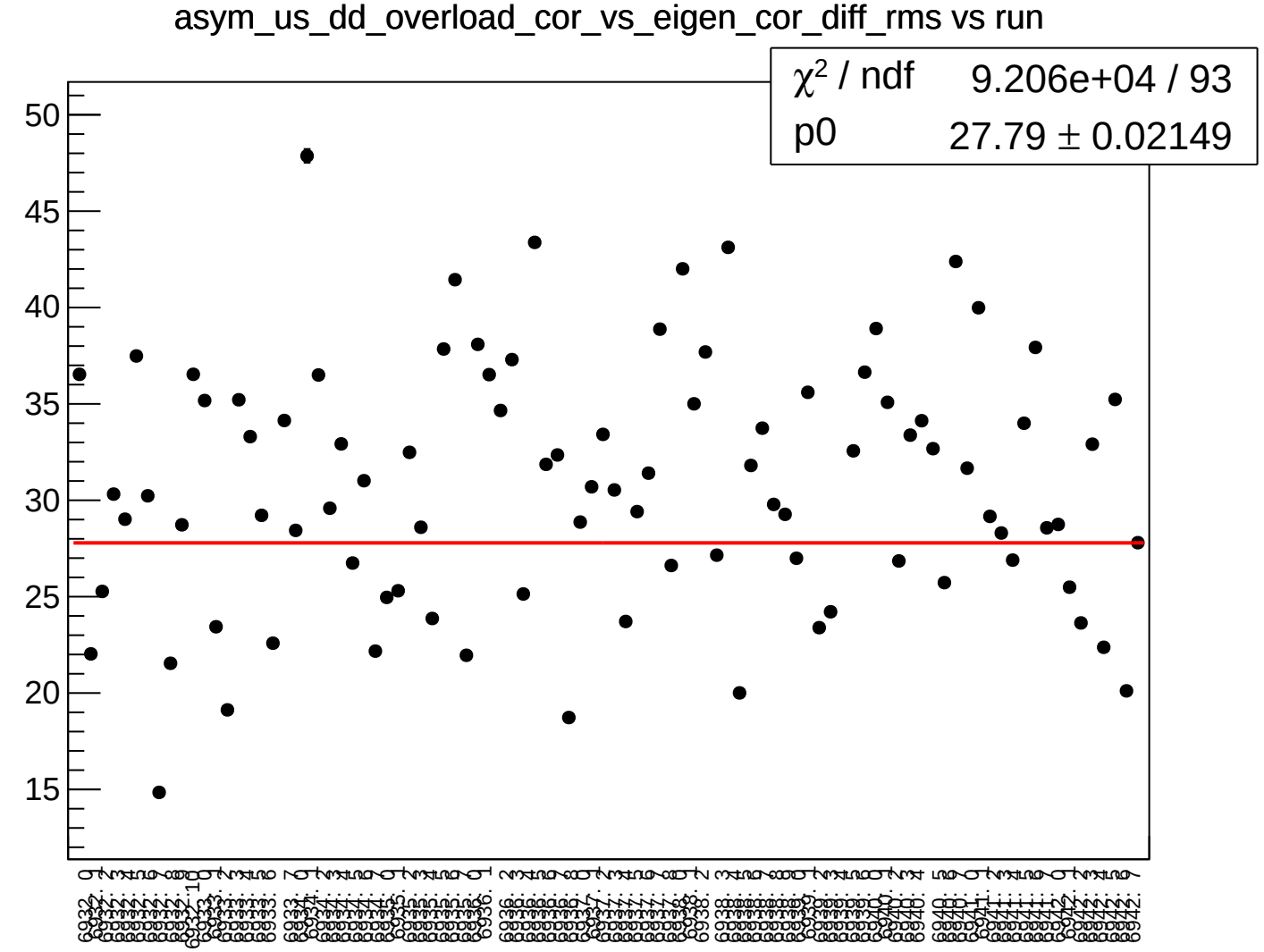

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.38e+05 / 93
p0 8.866e−12 ± 9.214e−15

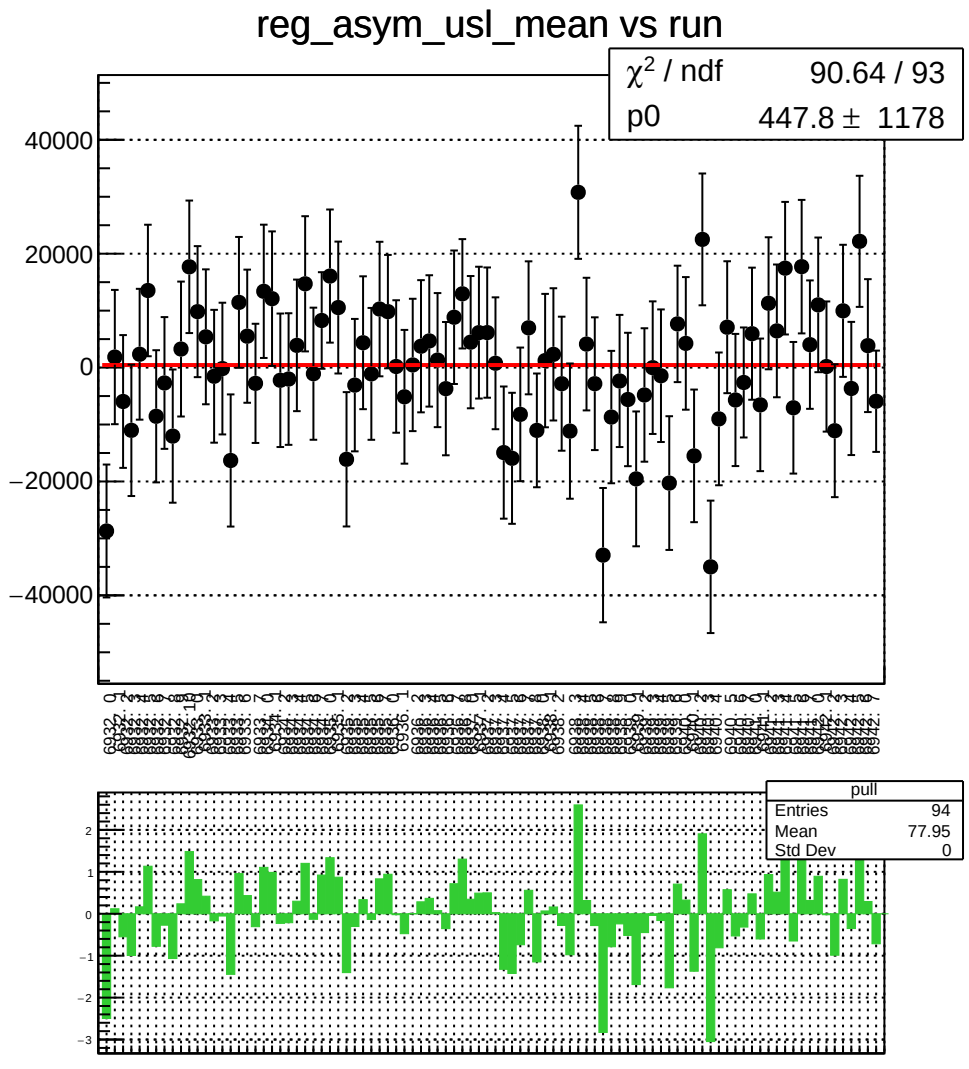

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 96.47 / 93
p0 −0.009891 ± 0.0304
pull
Entries 94
Mean 212.7
Std Dev 0

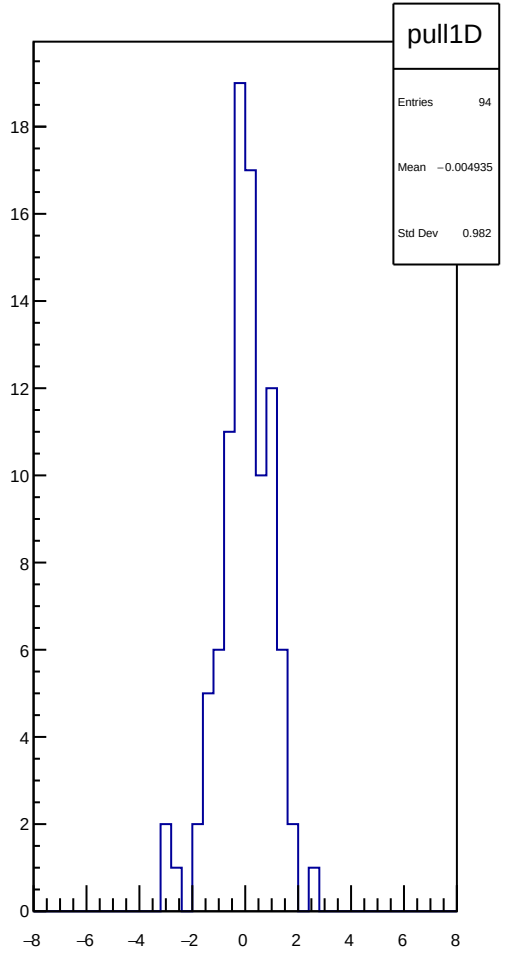

pull1D
Entries 94
Mean −0.00227
Std Dev 1.013

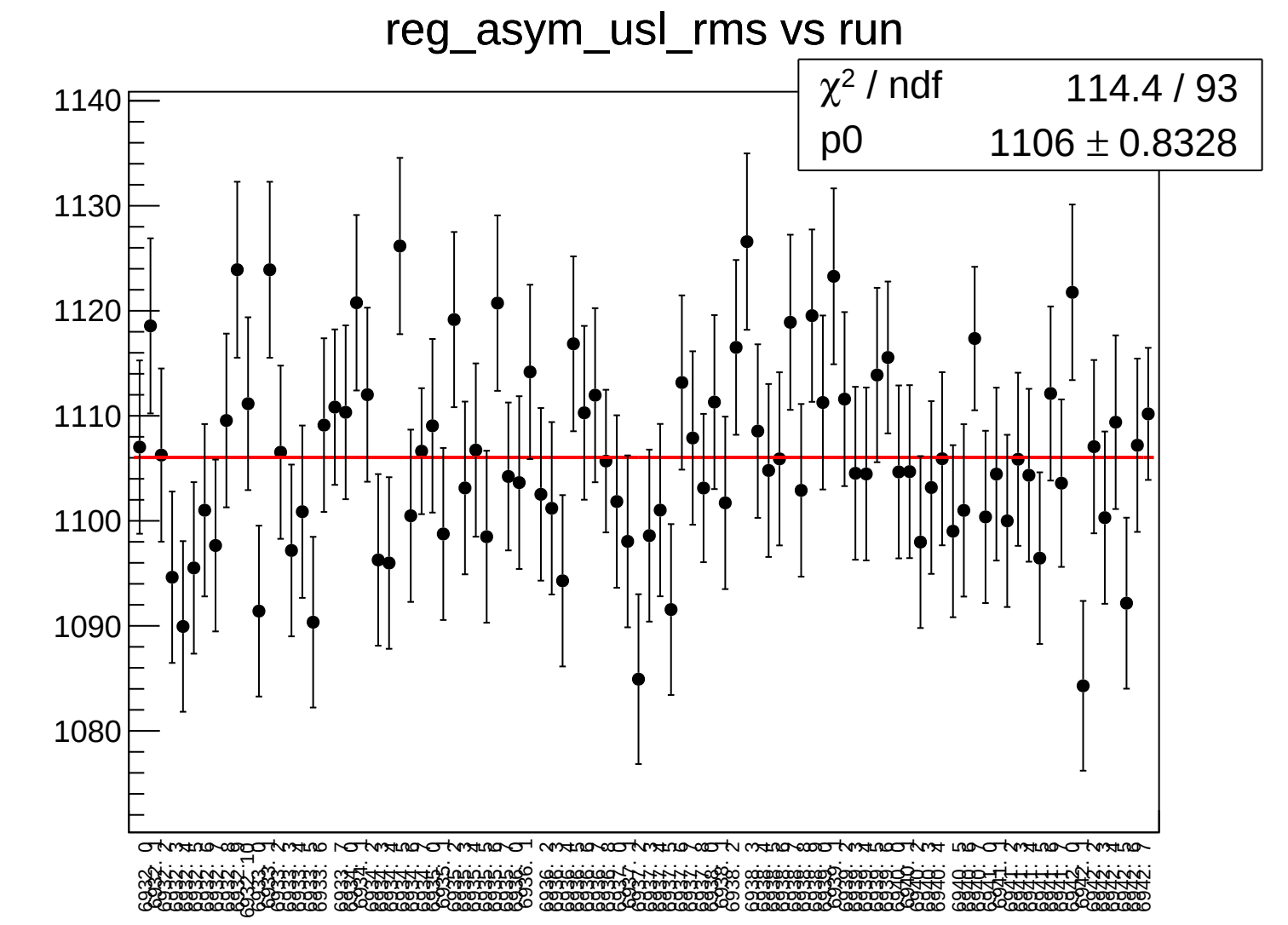

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 9.206e+04 / 93
p0 27.79 ± 0.02149
50
45
40
35
30
25
20
15

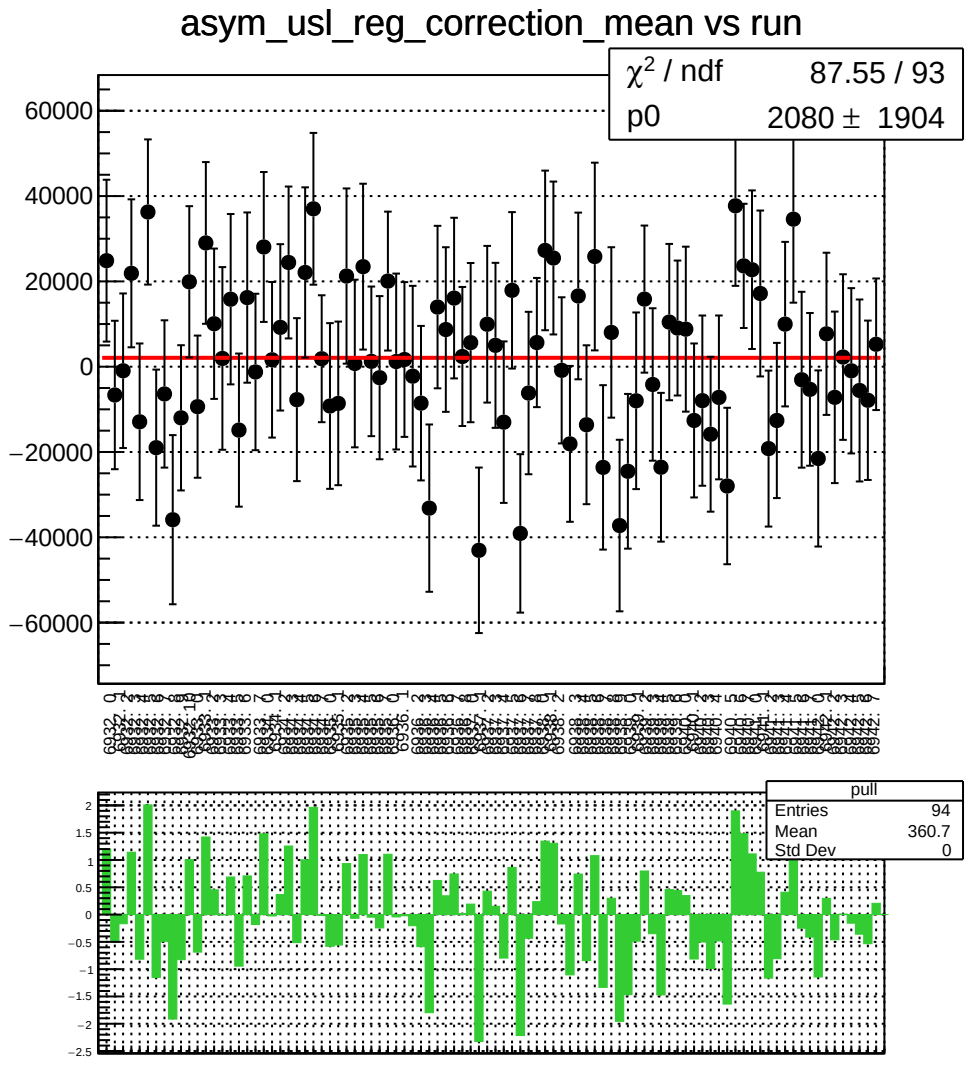

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.47 / 93
p0 −0.009891 ± 0.0304
pull
Entries 94
Mean 212.7
Std Dev 0
pull1D
Entries 94
Mean −0.00227
Std Dev 1.013

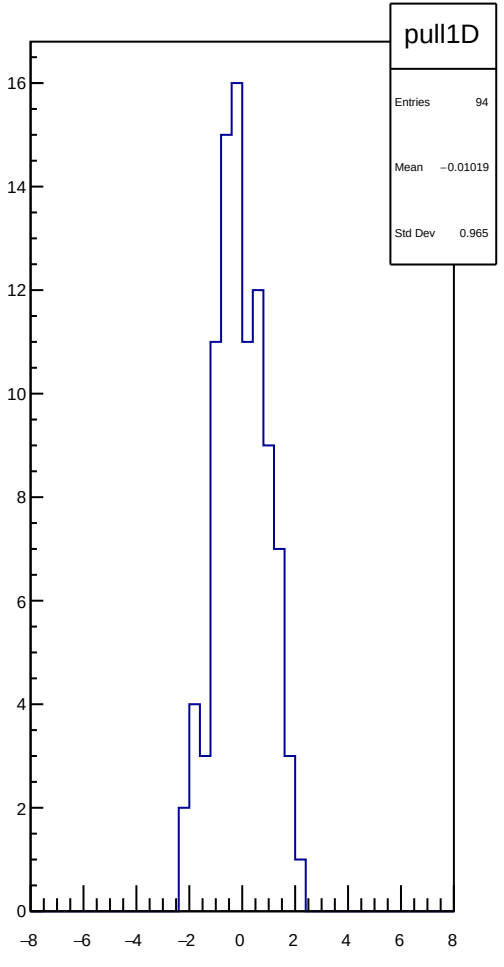

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.206e+04 / 93
p0 27.79 ± 0.02149
50
45
40
35
30
25
20
15

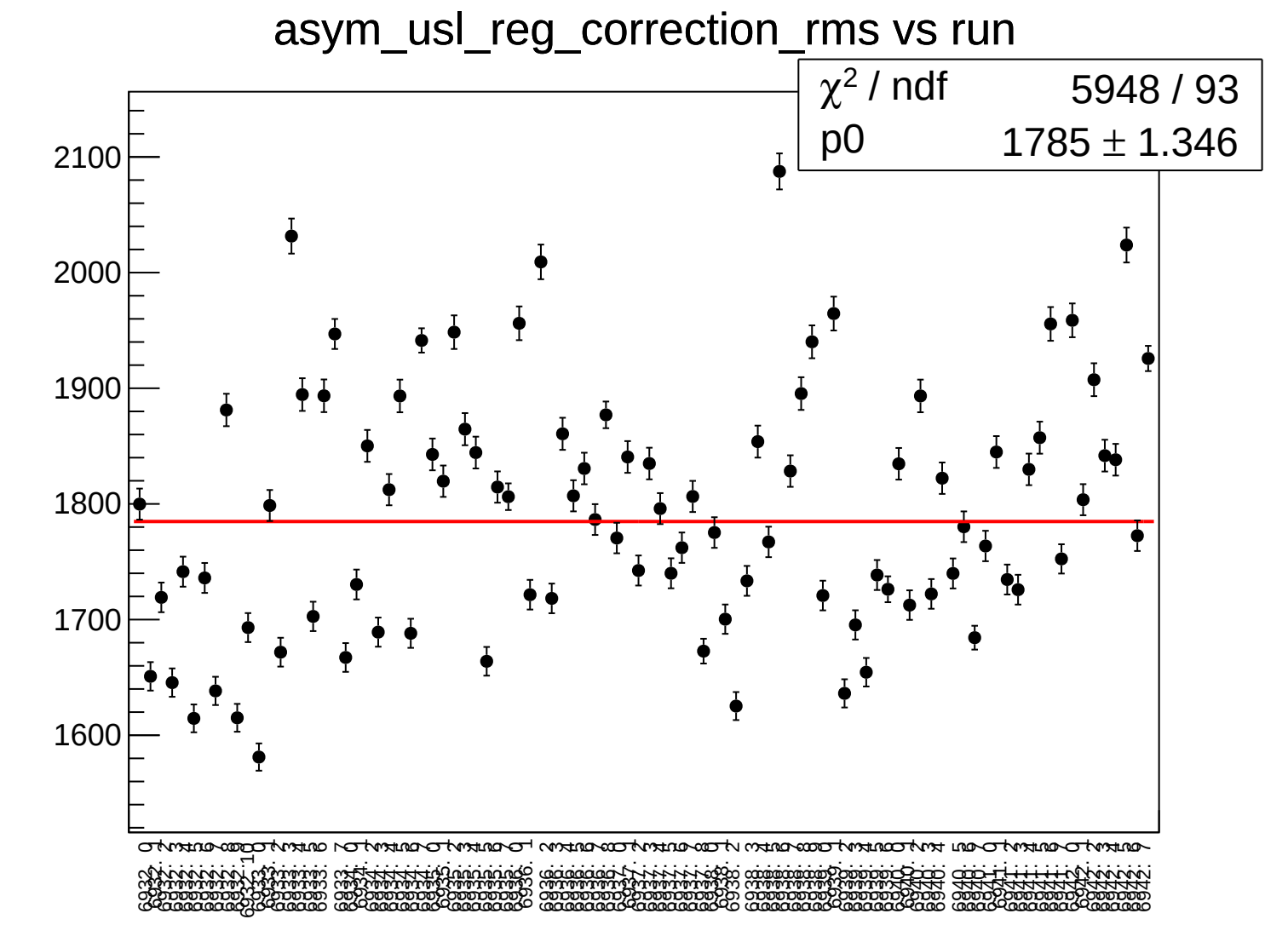

reg_asym_usl_mean vs run
χ² / ndf 90.64 / 93
p0 447.8 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 77.95
Std Dev 0
2
1
0
−1
−2
−3

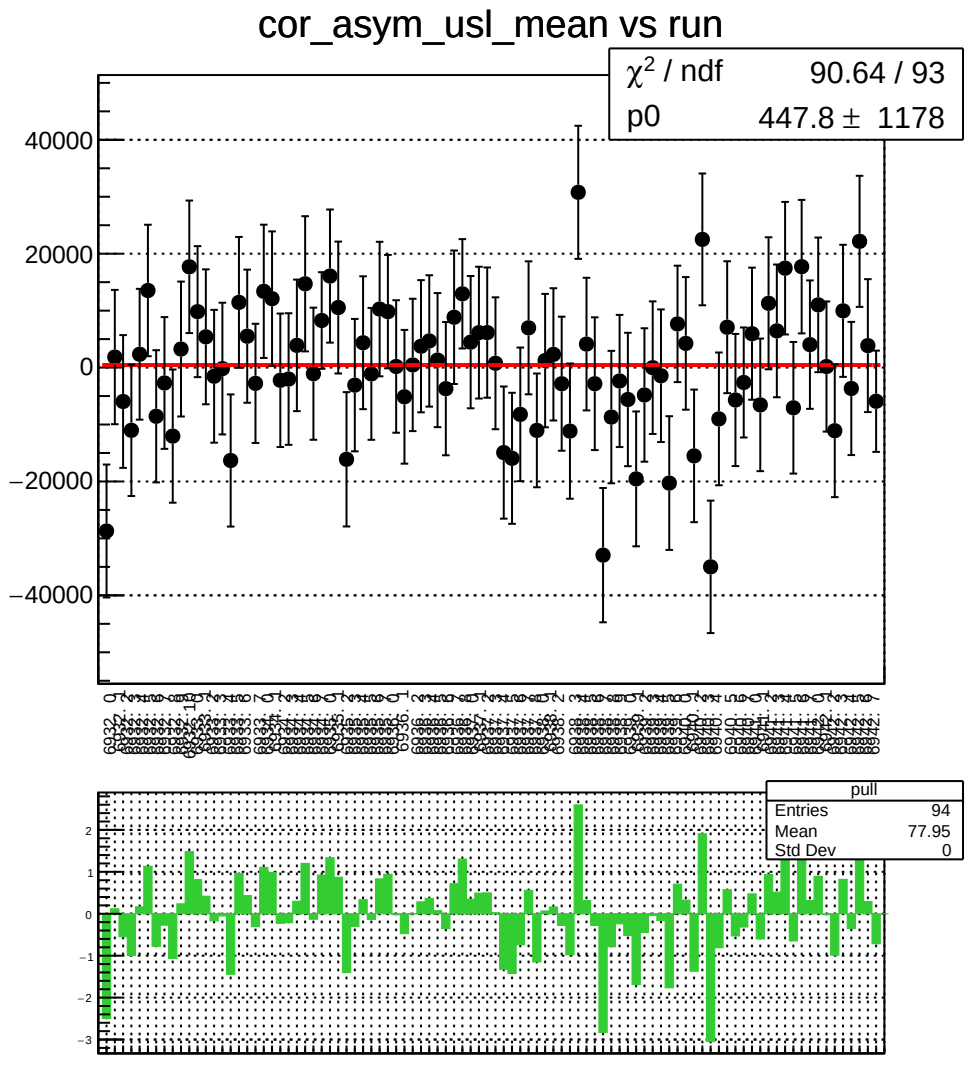

pull1D
Entries 94
Mean −0.004935
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

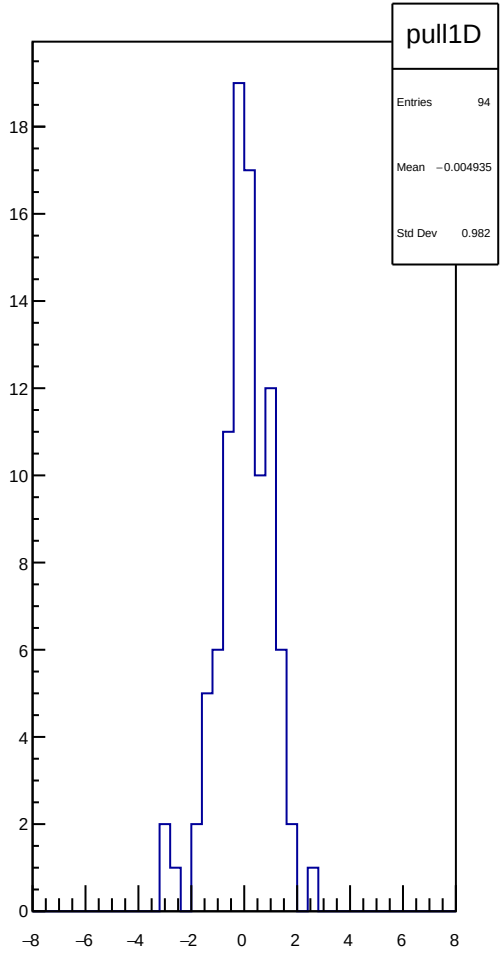

reg_asym_usl_rms vs run
χ² / ndf 114.4 / 93
p0 1106 ± 0.8328
1140
1130
1120
1110
1100
1090
1080

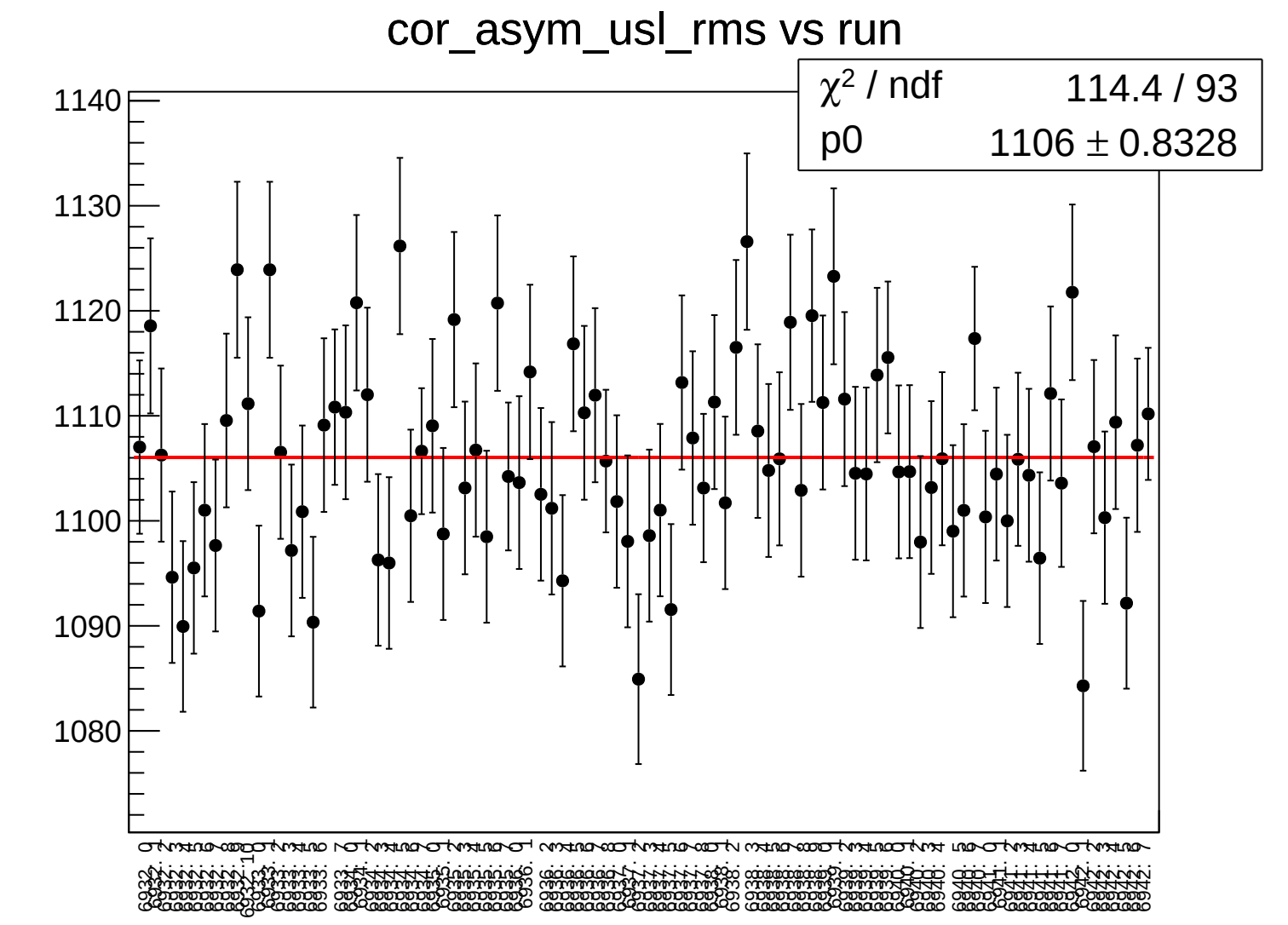

asym_usl_reg_correction_mean vs run
χ² / ndf 87.55 / 93
p0 2080 ± 1904
pull
Entries 94
Mean 360.7
Std Dev 0

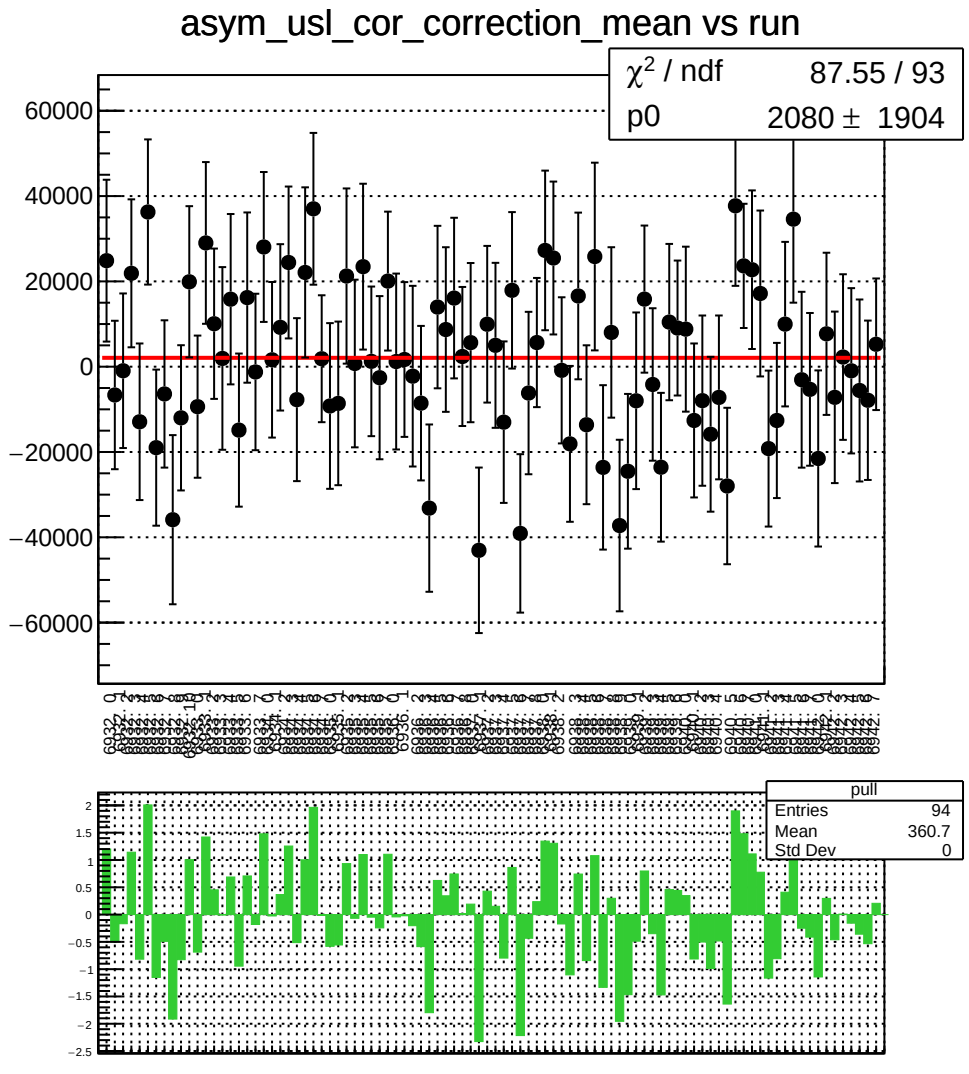

pull1D
Entries 94
Mean −0.01019
Std Dev 0.965

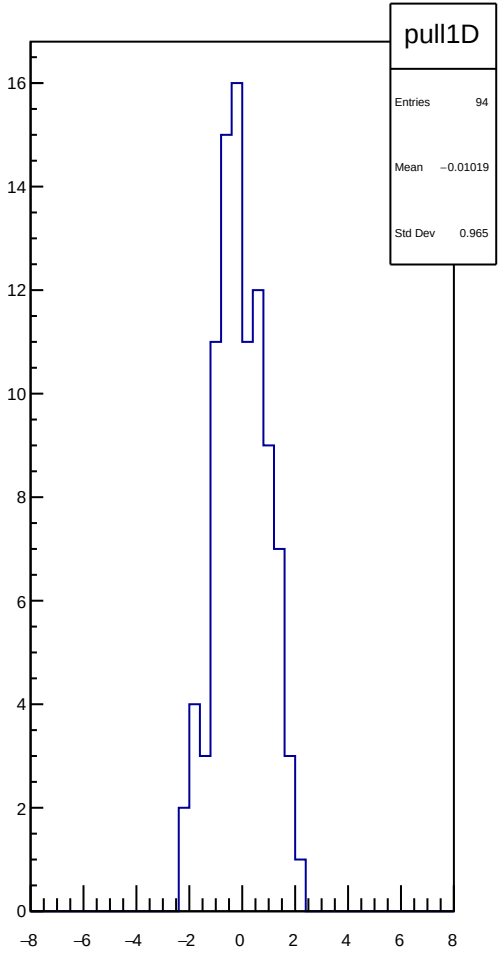

asym_usl_reg_correction_rms vs run
χ^2 / ndf 5948 / 93
p0 1785 ± 1.346
2100
2000
1900
1800
1700
1600

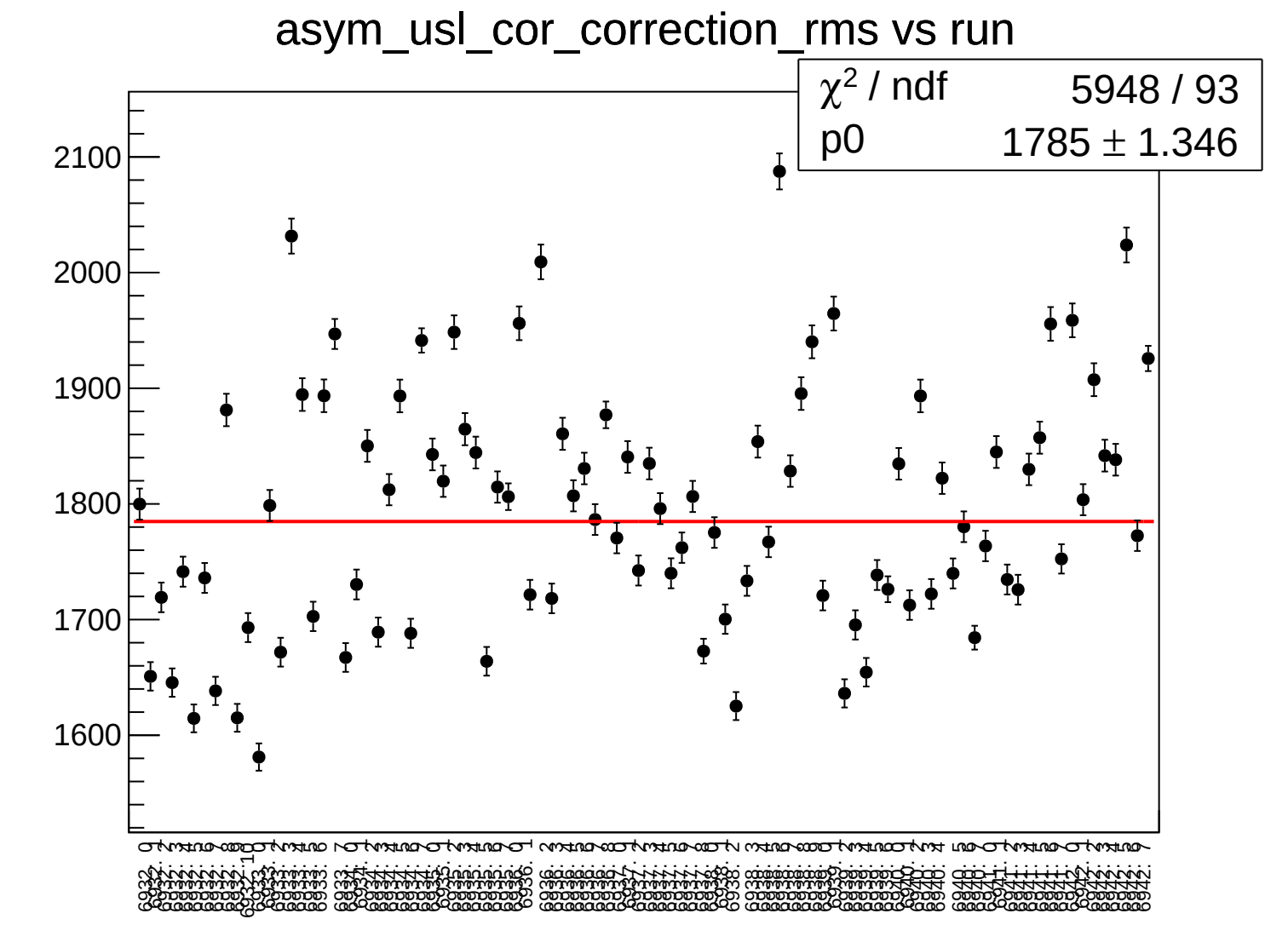

cor_asym_usl_mean vs run
χ² / ndf 90.64 / 93
p0 447.8 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 77.95
Std Dev 0
2
1
0
−1
−2
−3

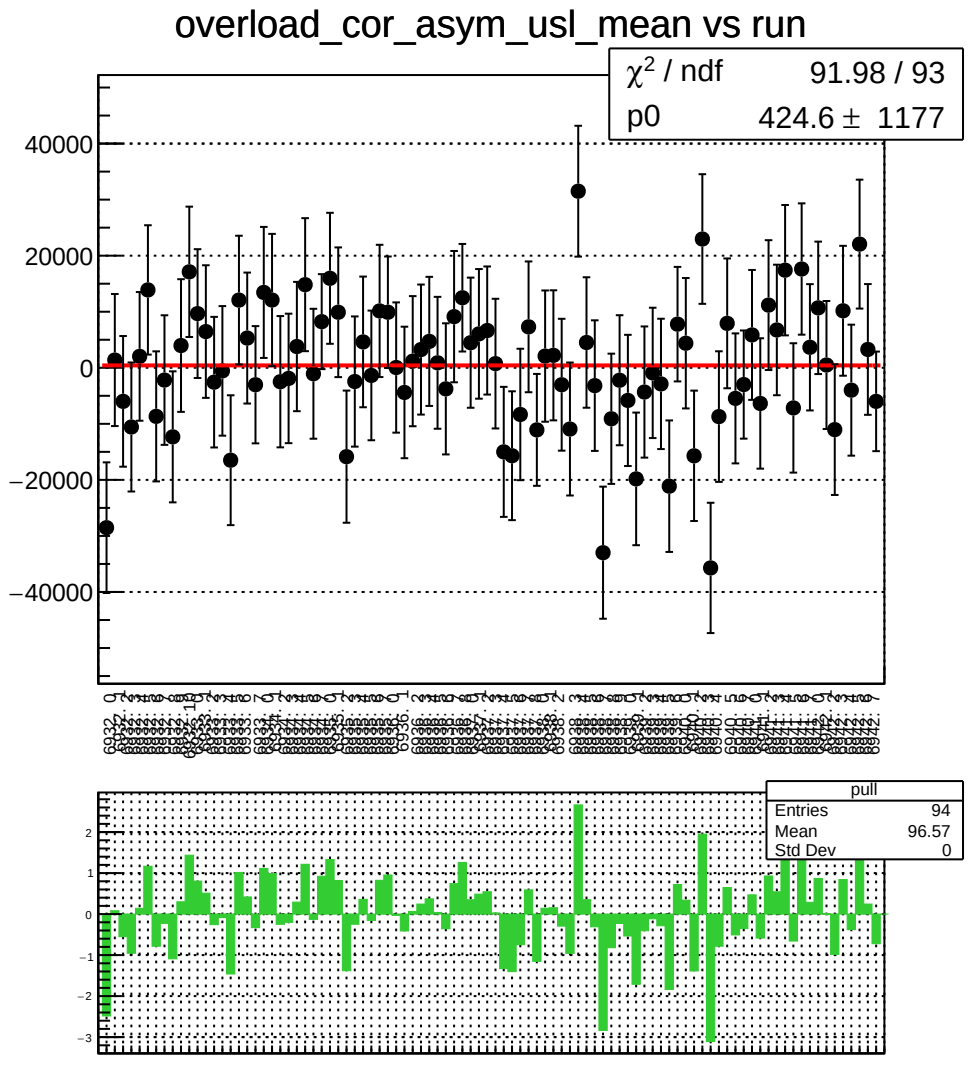

pull1D
Entries 94
Mean −0.004935
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

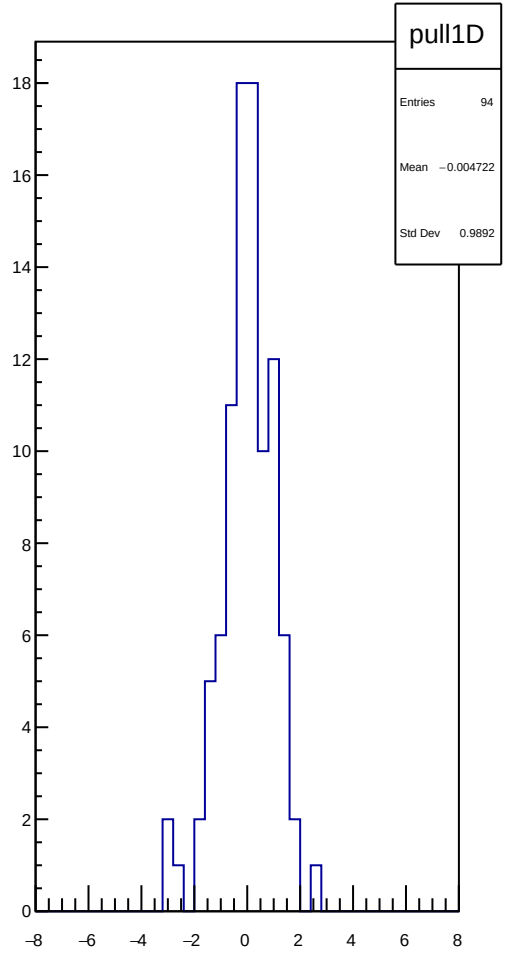

cor_asym_usl_rms vs run
χ² / ndf 114.4 / 93
p0 1106 ± 0.8328
1140
1130
1120
1110
1100
1090
1080

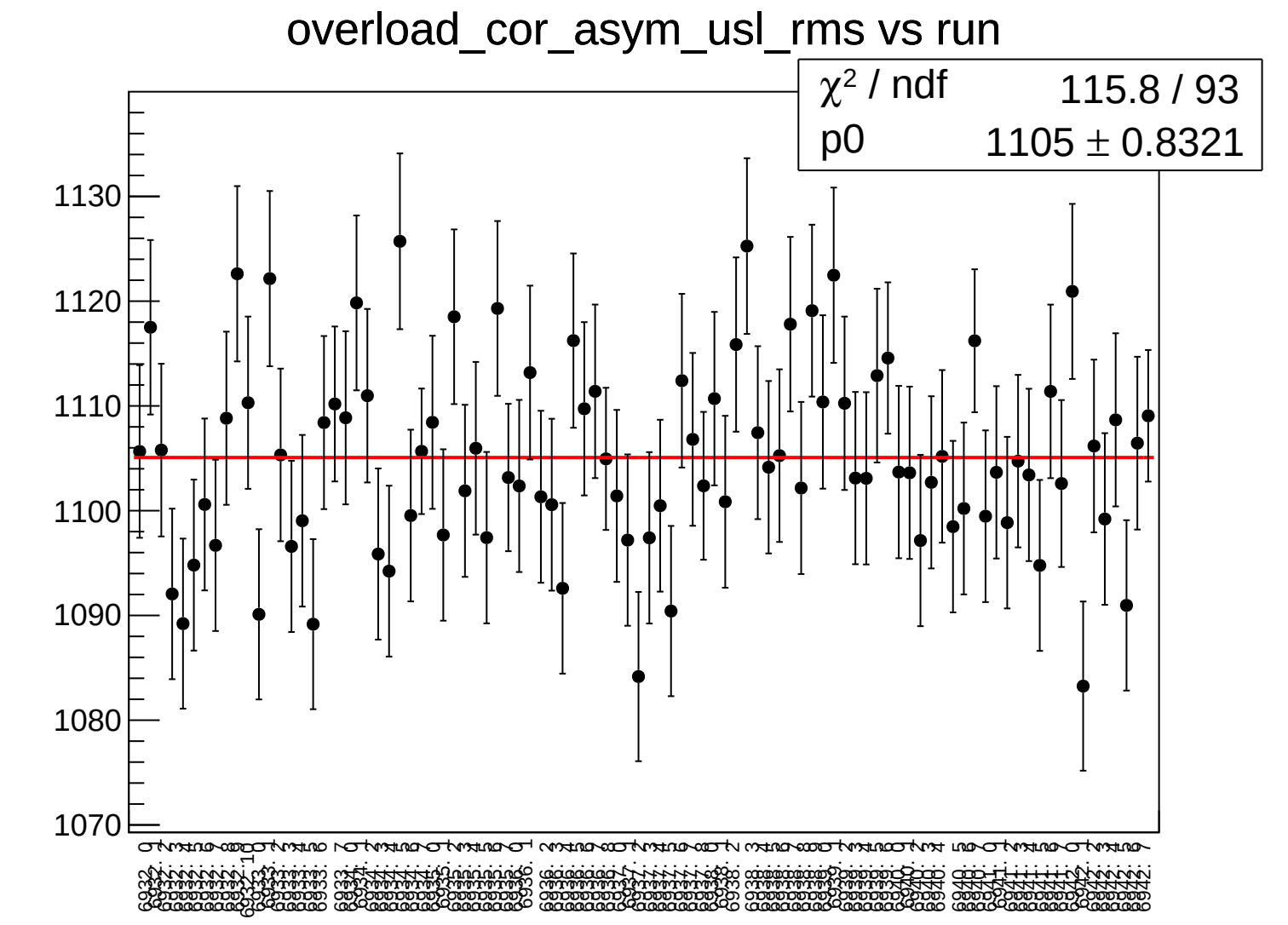

asym_usl_cor_correction_mean vs run
χ² / ndf 87.55 / 93
p0 2080 ± 1904
pull
Entries 94
Mean 360.7
Std Dev 0

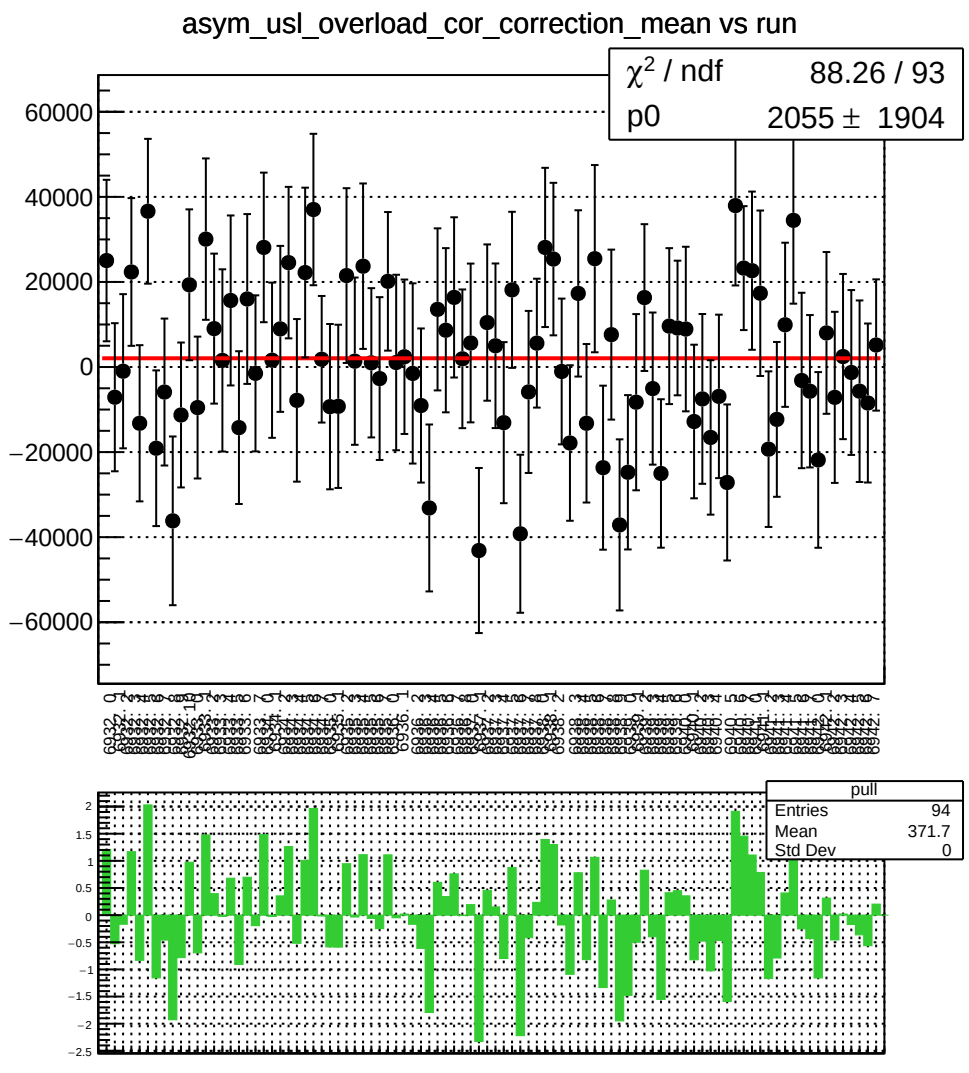

pull1D
Entries 94
Mean −0.01019
Std Dev 0.965

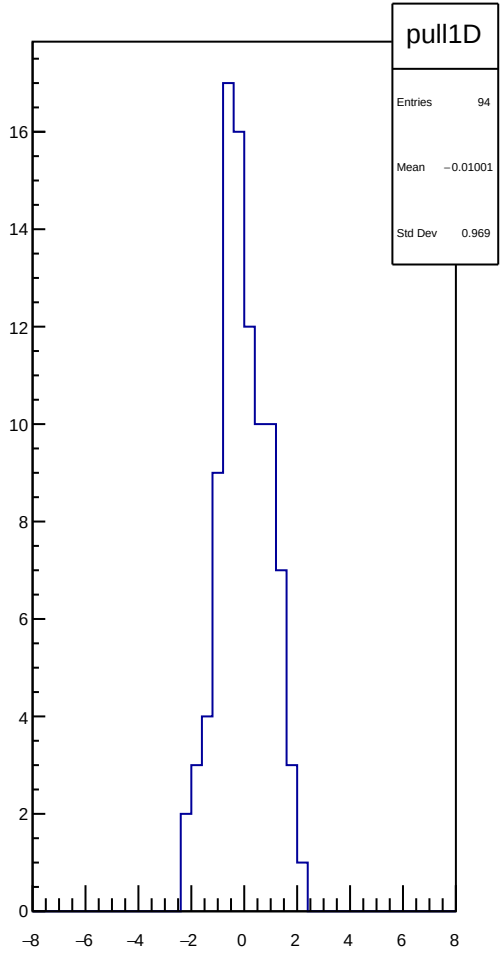

asym_usl_cor_correction_rms vs run
χ² / ndf 5948 / 93
p0 1785 ± 1.346
2100
2000
1900
1800
1700
1600

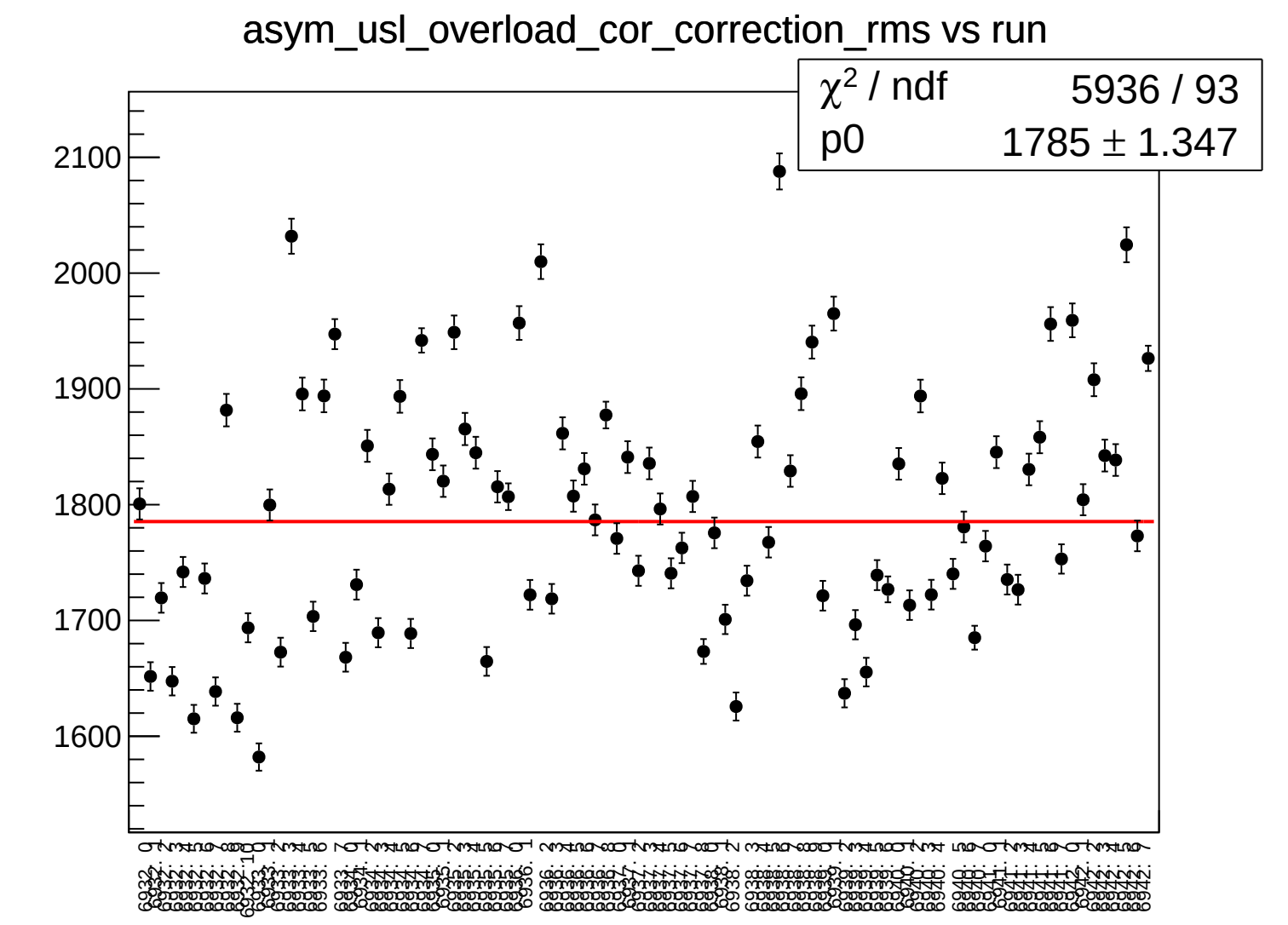

overload_cor_asym_usl_mean vs run
χ² / ndf 91.98 / 93
p0 424.6 ± 1177
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 96.57
Std Dev 0
2
1
0
−1
−2
−3

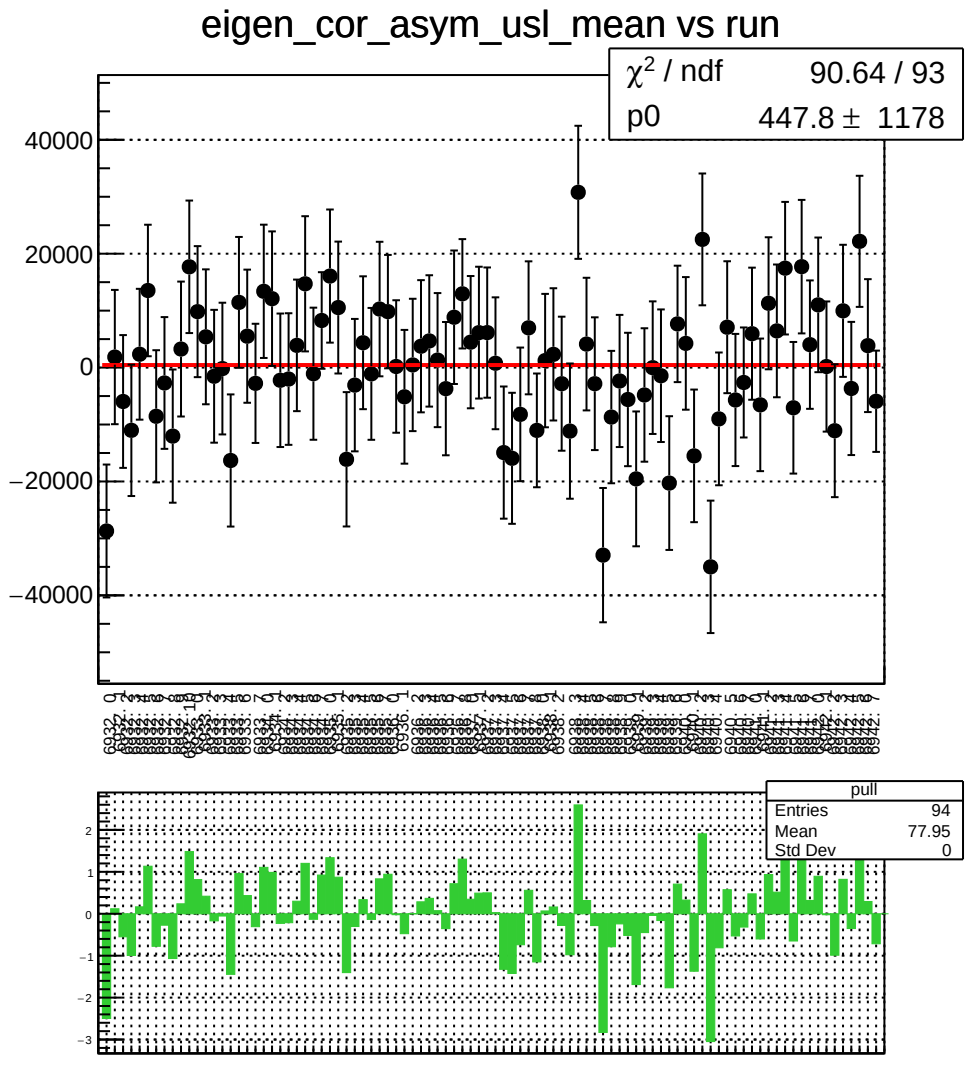

pull1D
Entries 94
Mean −0.004722
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

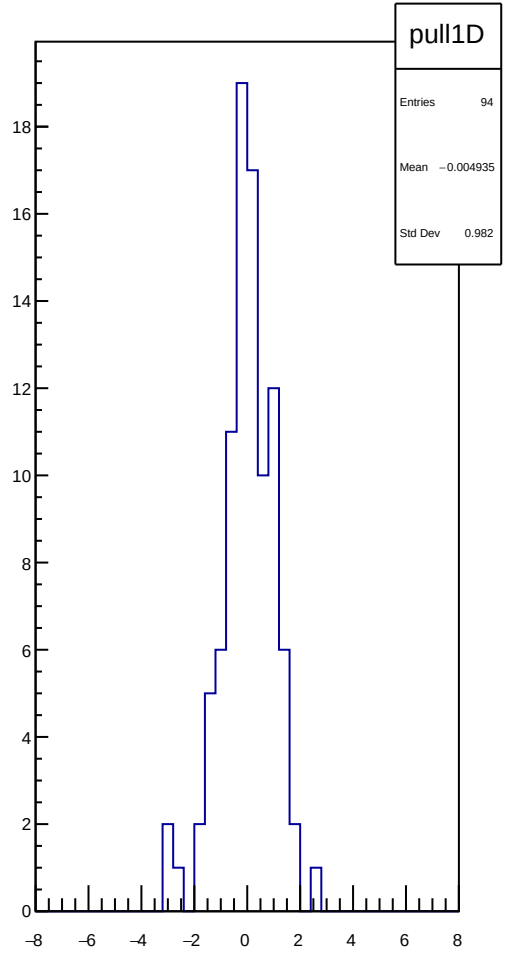

overload_cor_asym_usl_rms vs run
χ² / ndf 115.8 / 93
p0 1105 ± 0.8321
1130
1120
1110
1100
1090
1080
1070

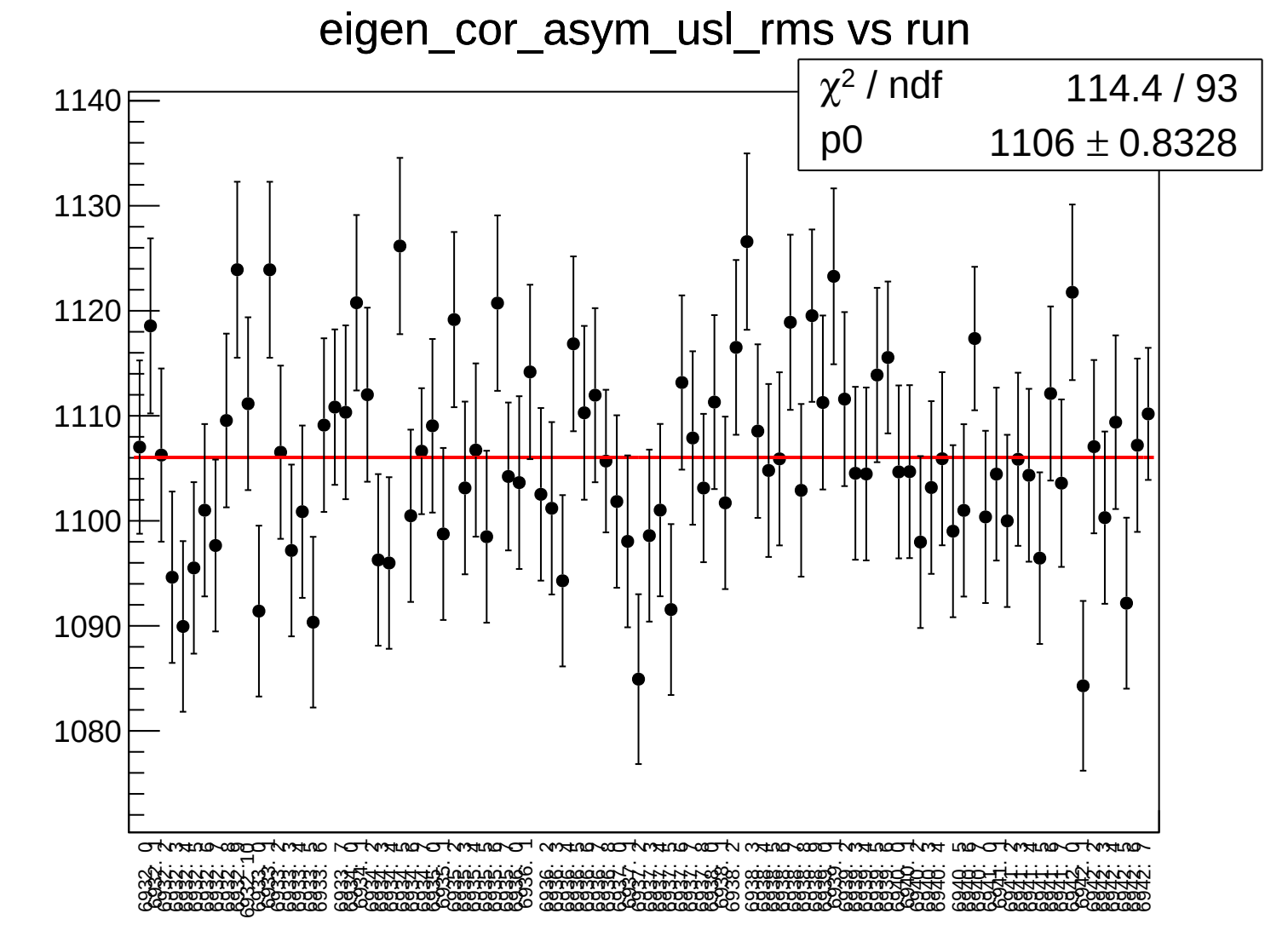

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 88.26 / 93
p0 2055 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 371.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

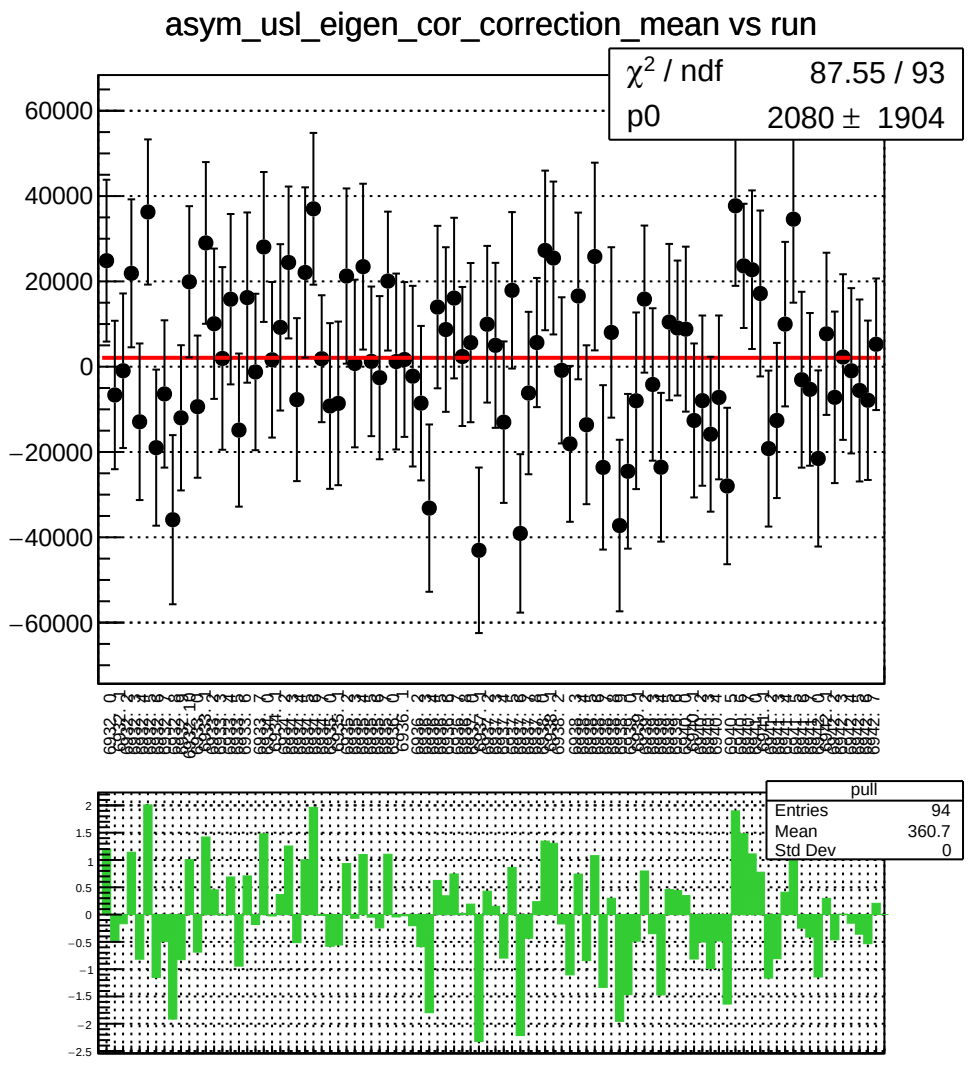

pull1D
Entries 94
Mean −0.01001
Std Dev 0.969
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

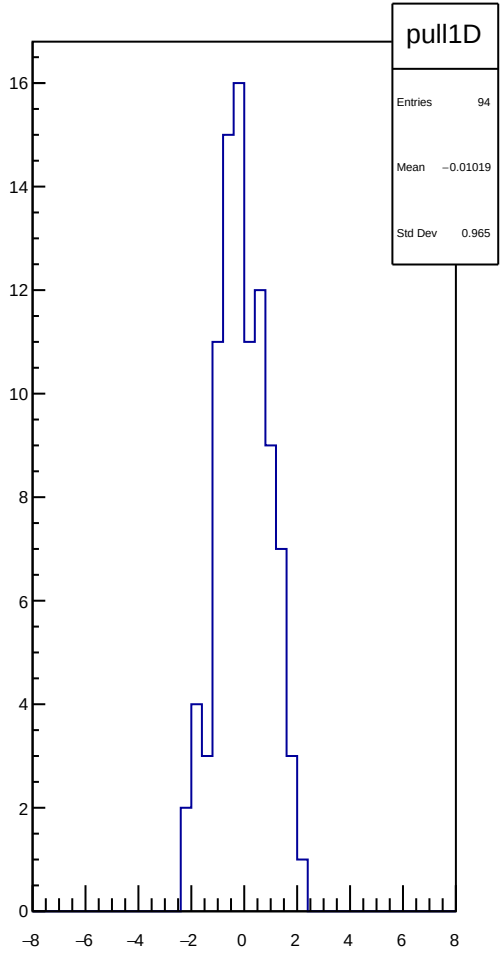

asym_usl_overload_cor_correction_rms vs run
χ^2 / ndf 5936 / 93
p0 1785 ± 1.347
2100
2000
1900
1800
1700
1600

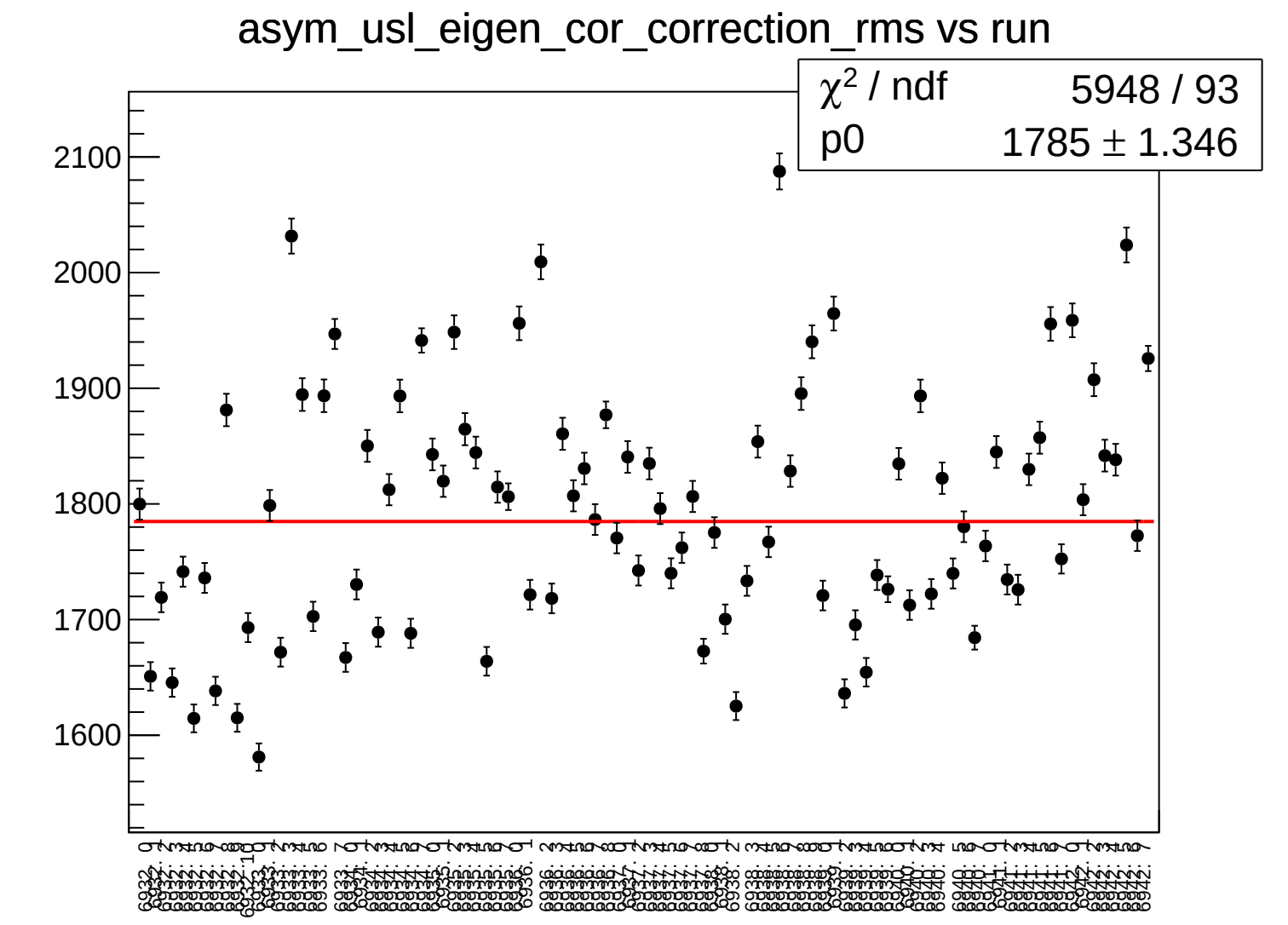

eigen_cor_asym_usl_mean vs run
χ² / ndf 90.64 / 93
p0 447.8 ± 1178
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 77.95
Std Dev 0
2
1
0
−1
−2
−3

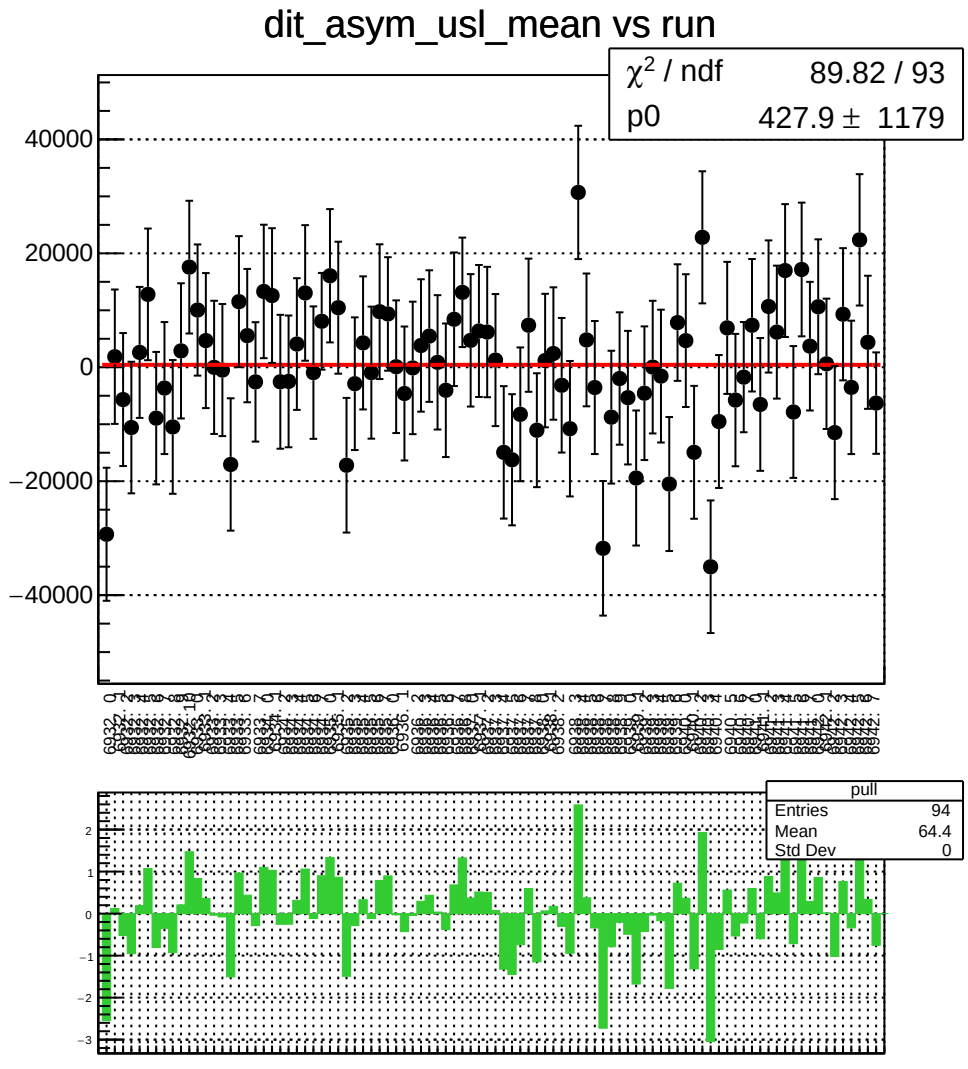

pull1D
Entries 94
Mean −0.004935
Std Dev 0.982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

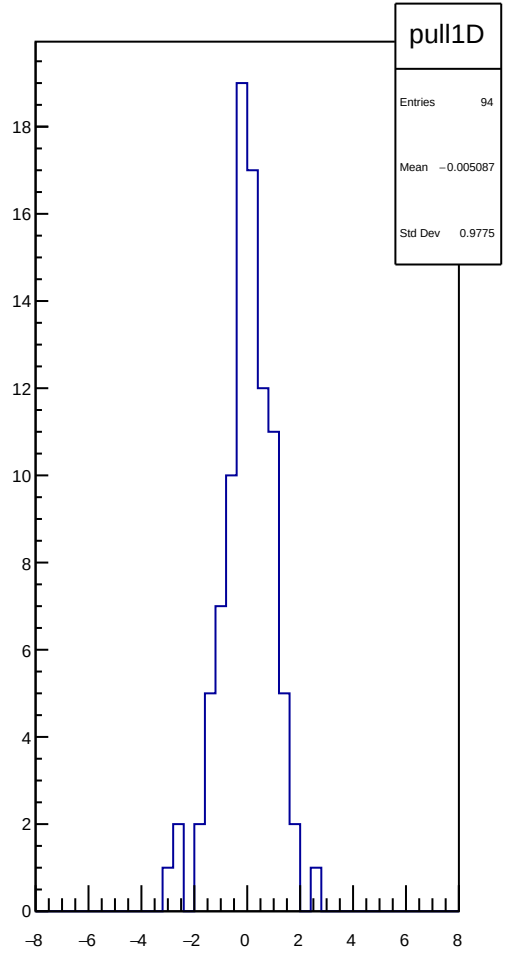

eigen_cor_asym_usl_rms vs run
χ² / ndf 114.4 / 93
p0 1106 ± 0.8328
1140
1130
1120
1110
1100
1090
1080

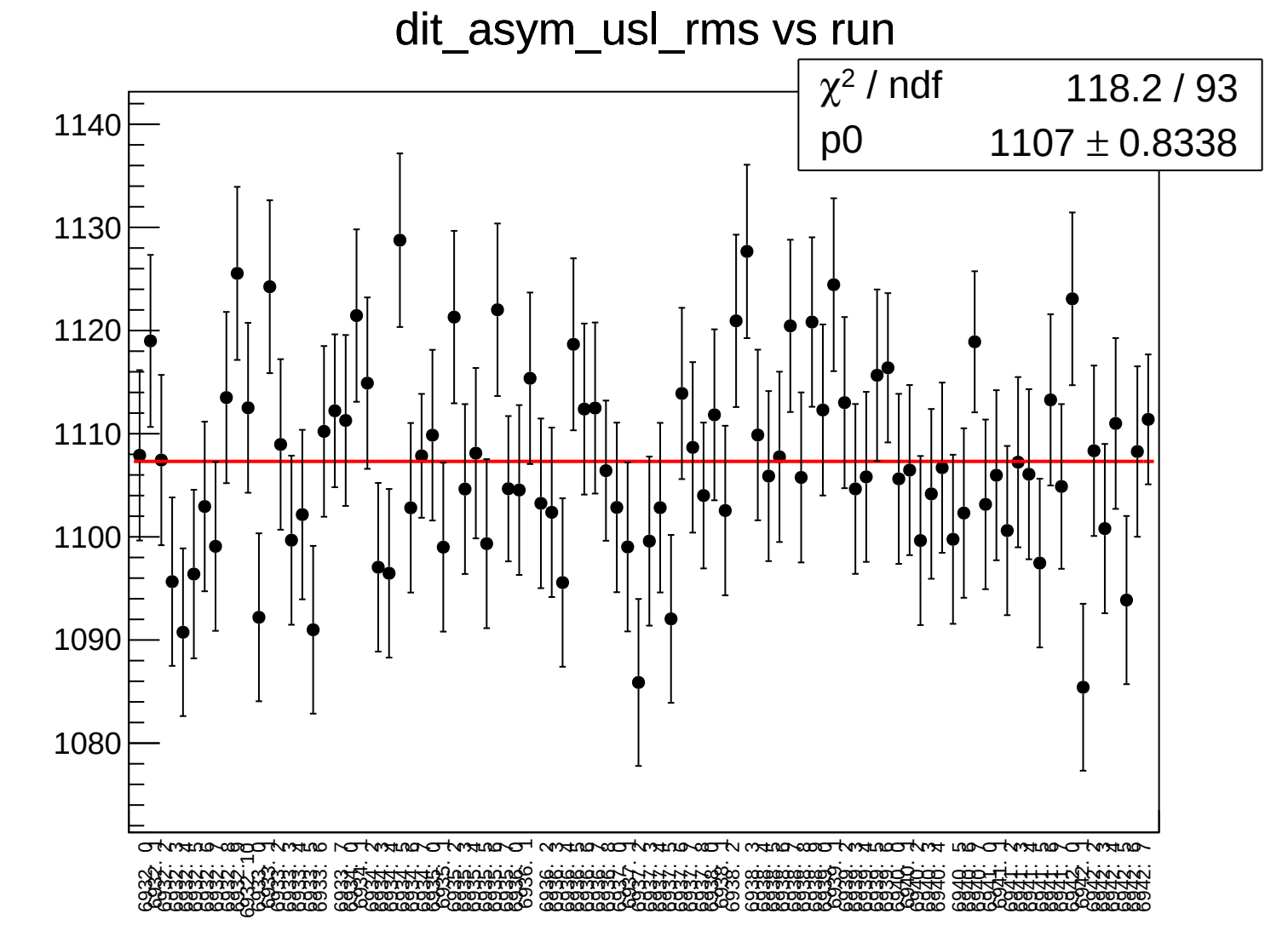

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 87.55 / 93
p0 2080 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 360.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

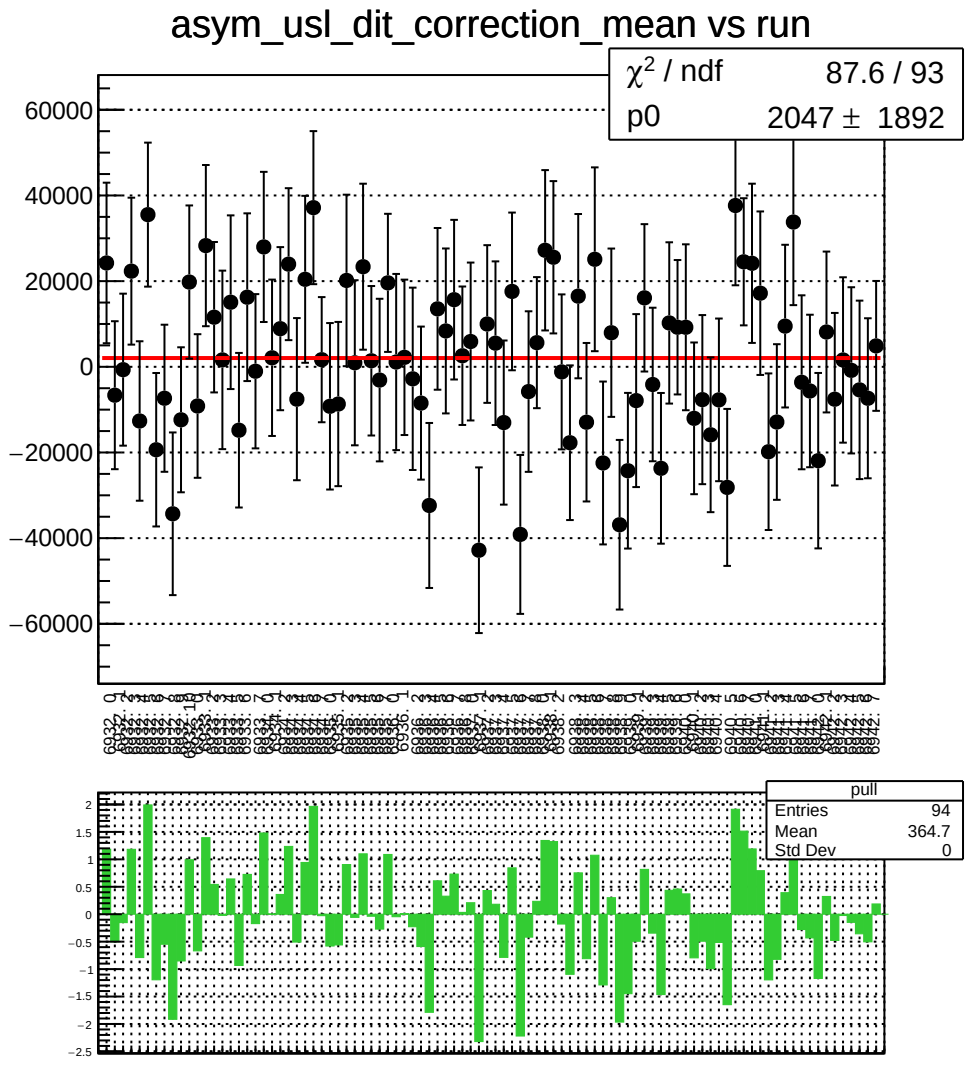

pull1D
Entries 94
Mean −0.01019
Std Dev 0.965
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

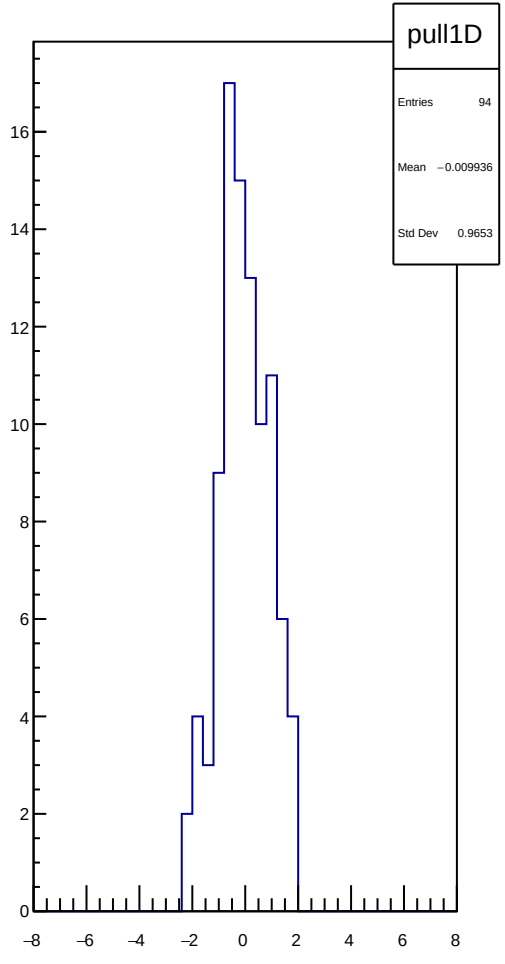

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 5948 / 93
p0 1785 ± 1.346
2100
2000
1900
1800
1700
1600

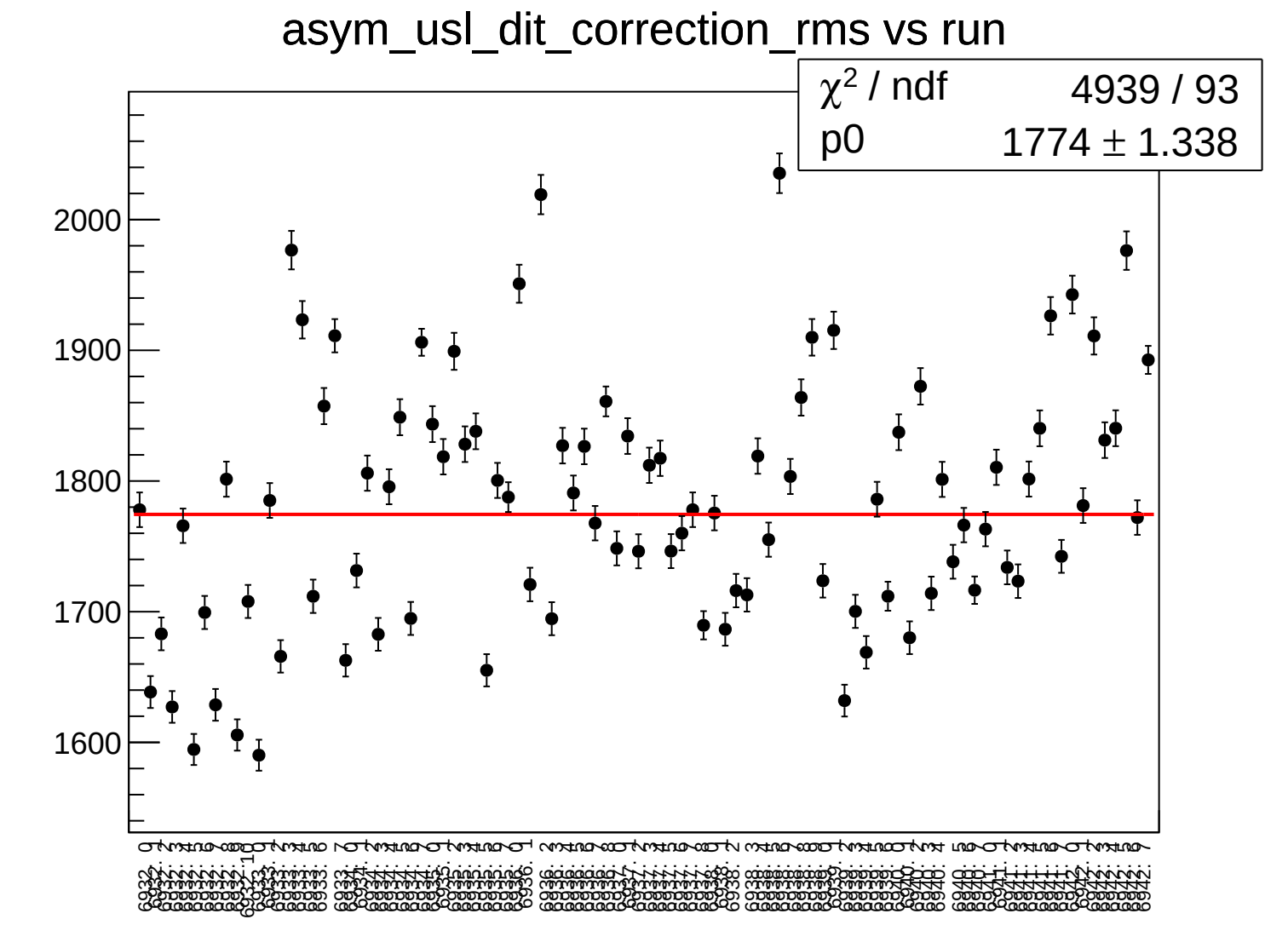

dit_asym_usl_mean vs run
χ² / ndf 89.82 / 93
p0 427.9 ± 1179
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 64.4
Std Dev 0
2
1
0
−1
−2
−3

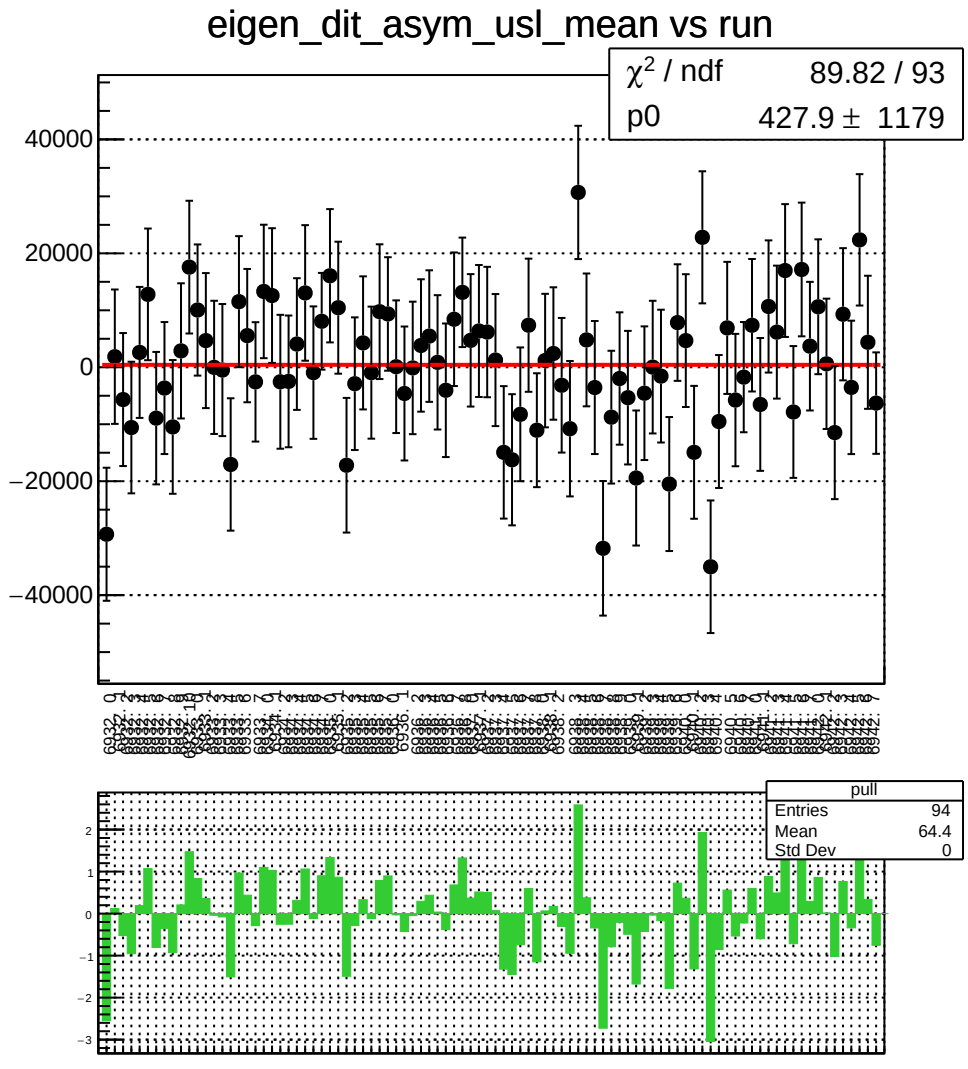

pull1D
Entries 94
Mean −0.005087
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

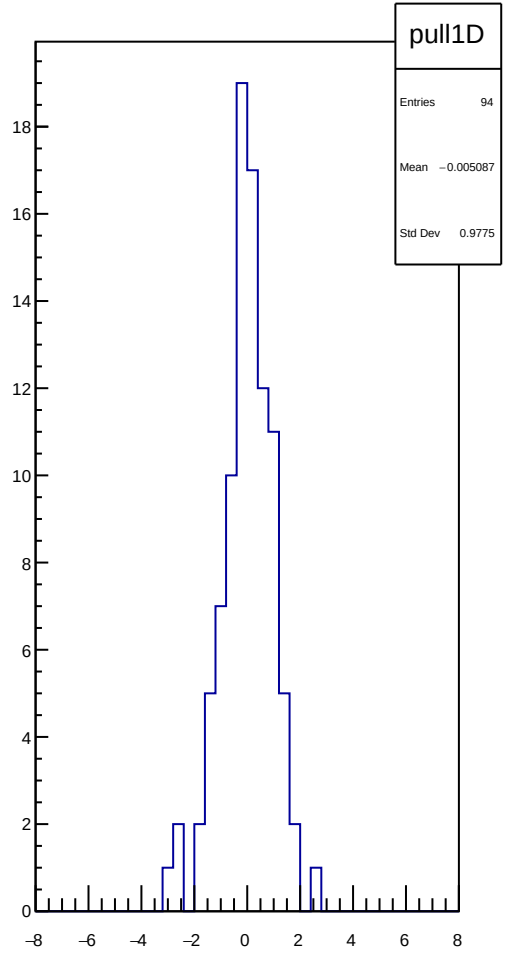

dit_asym_usl_rms vs run
χ² / ndf 118.2 / 93
p0 1107 ± 0.8338
1140
1130
1120
1110
1100
1090
1080

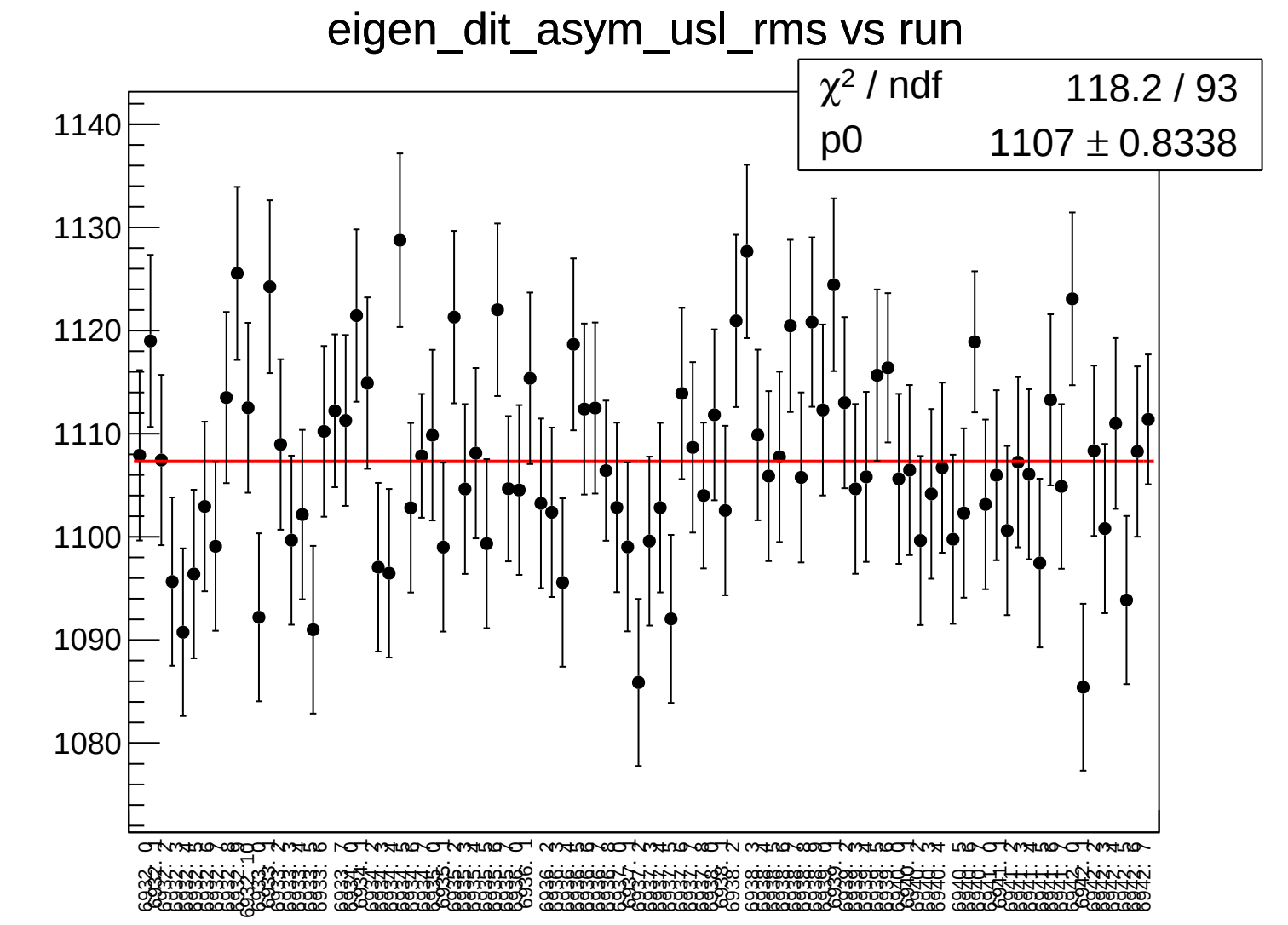

asym_usl_dit_correction_mean vs run
χ² / ndf 87.6 / 93
p0 2047 ± 1892
pull
Entries 94
Mean 364.7
Std Dev 0

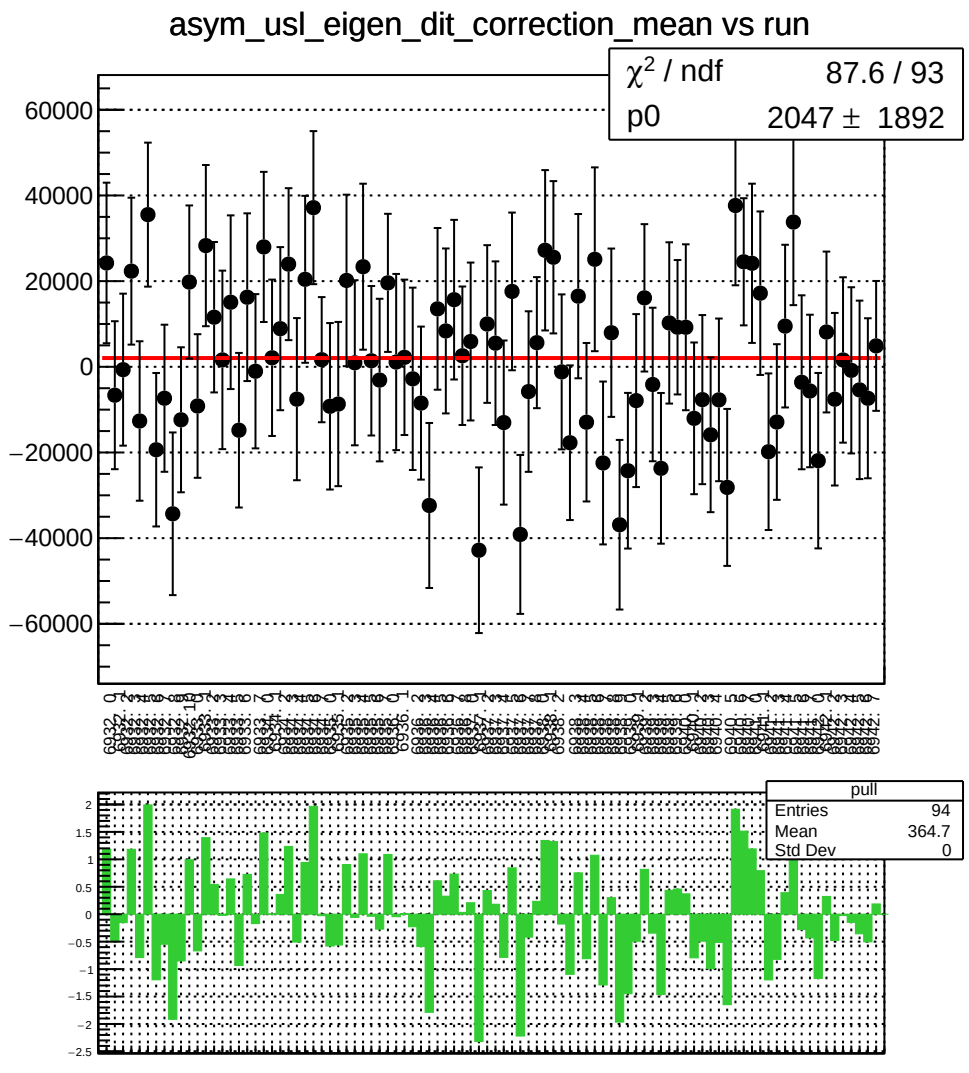

pull1D
Entries 94
Mean −0.009936
Std Dev 0.9653

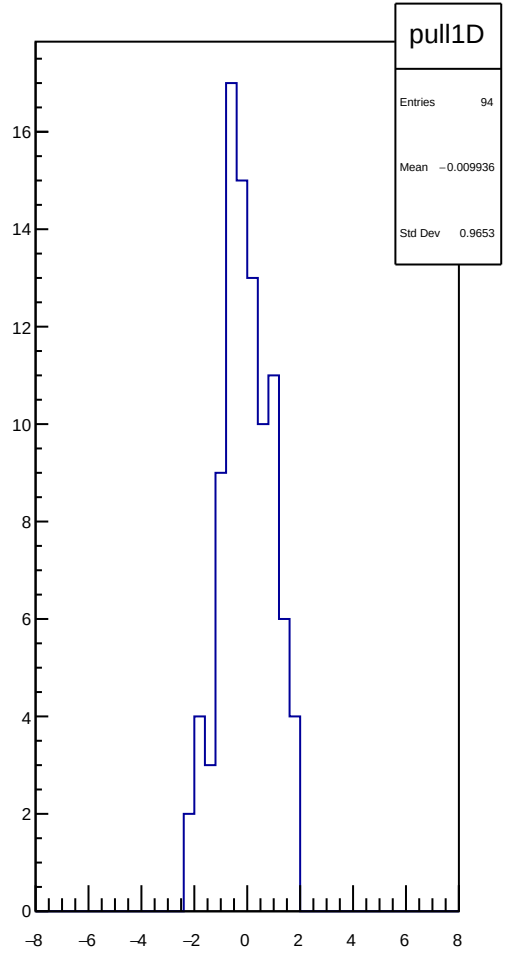

asym_usl_dit_correction_rms vs run
χ² / ndf 4939 / 93
p0 1774 ± 1.338
2000
1900
1800
1700
1600

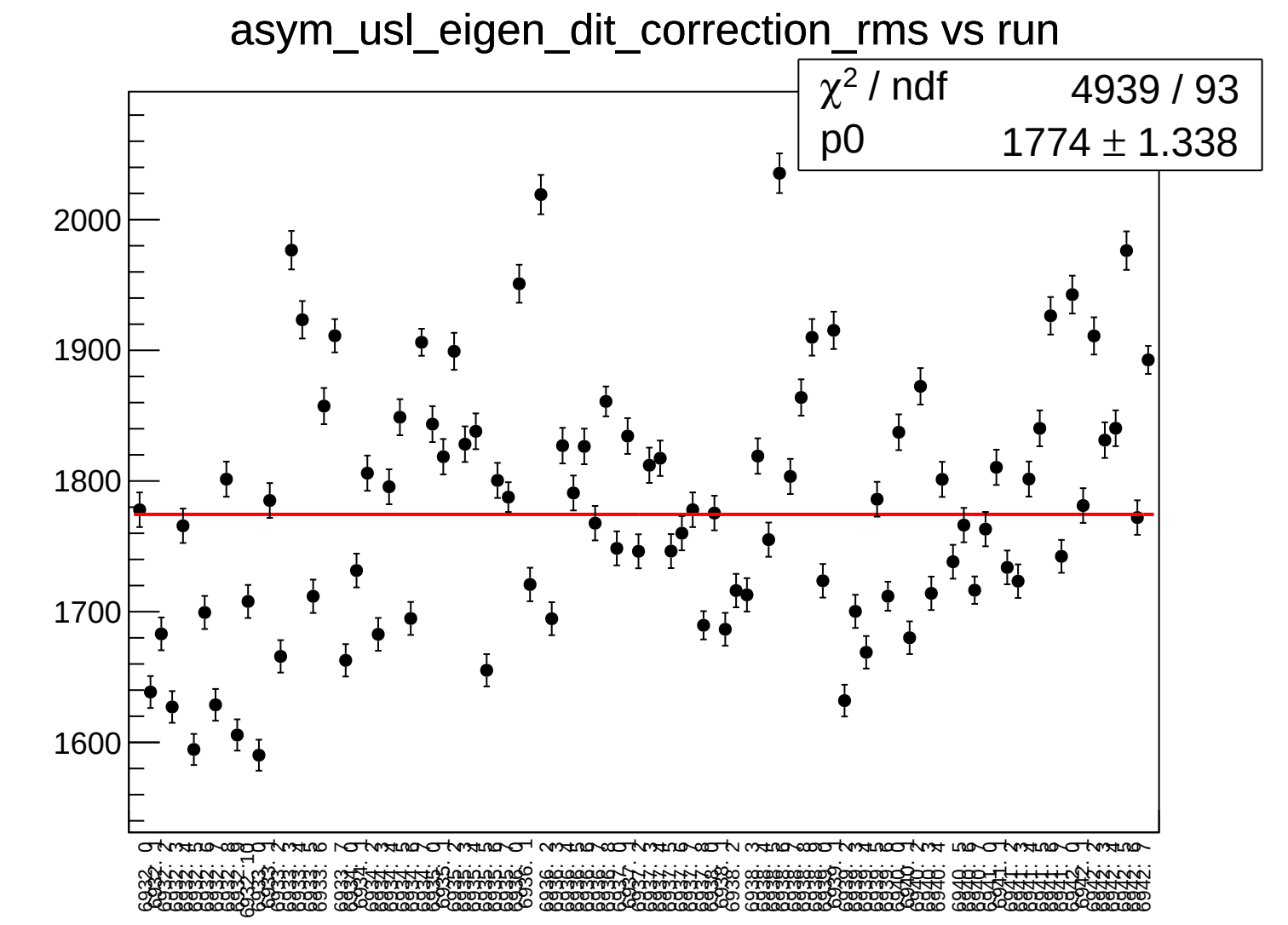

eigen_dit_asym_usl_mean vs run
χ² / ndf 89.82 / 93
p0 427.9 ± 1179
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 64.4
Std Dev 0
2
1
0
−1
−2
−3

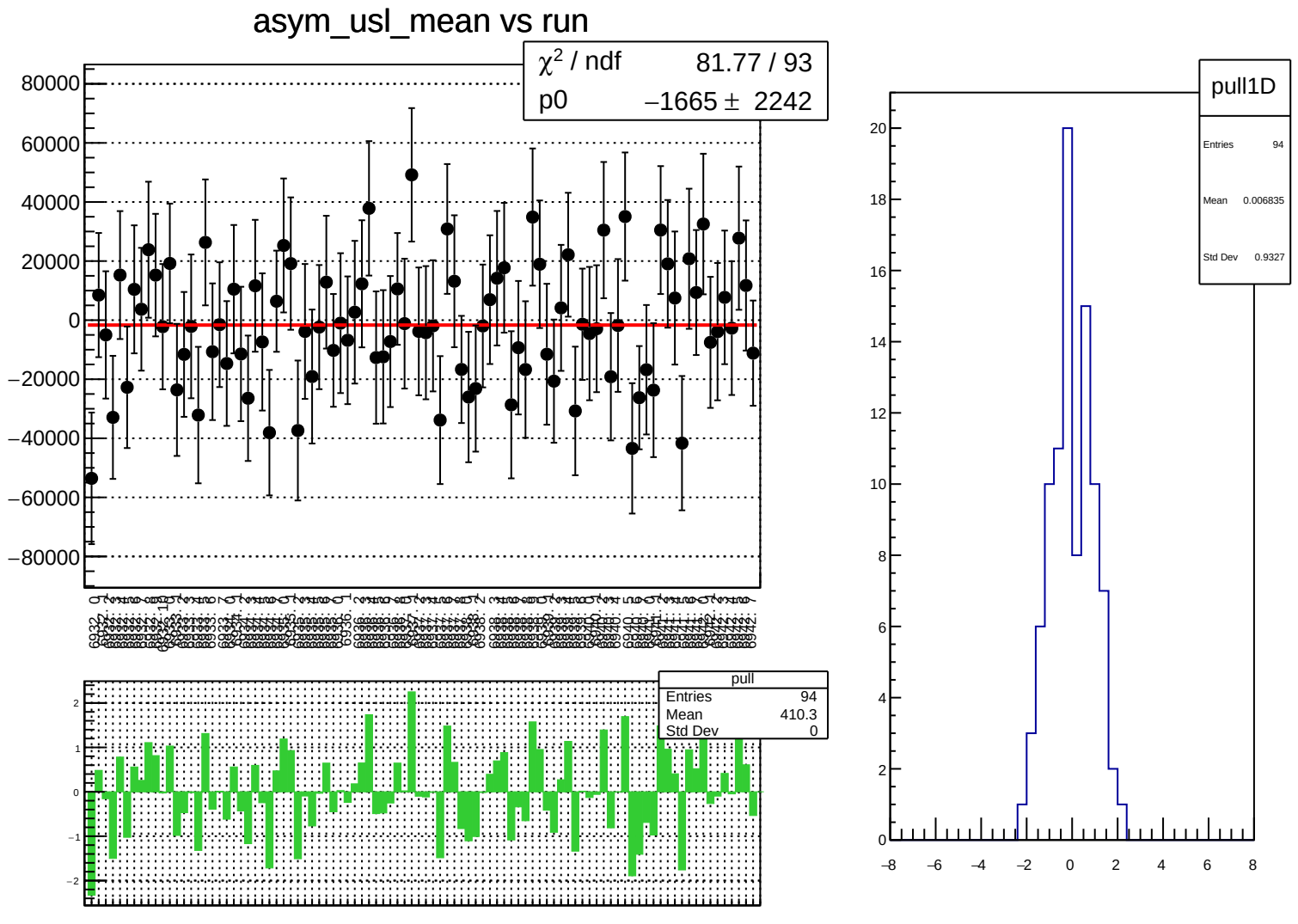

pull1D
Entries 94
Mean −0.005087
Std Dev 0.9775
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

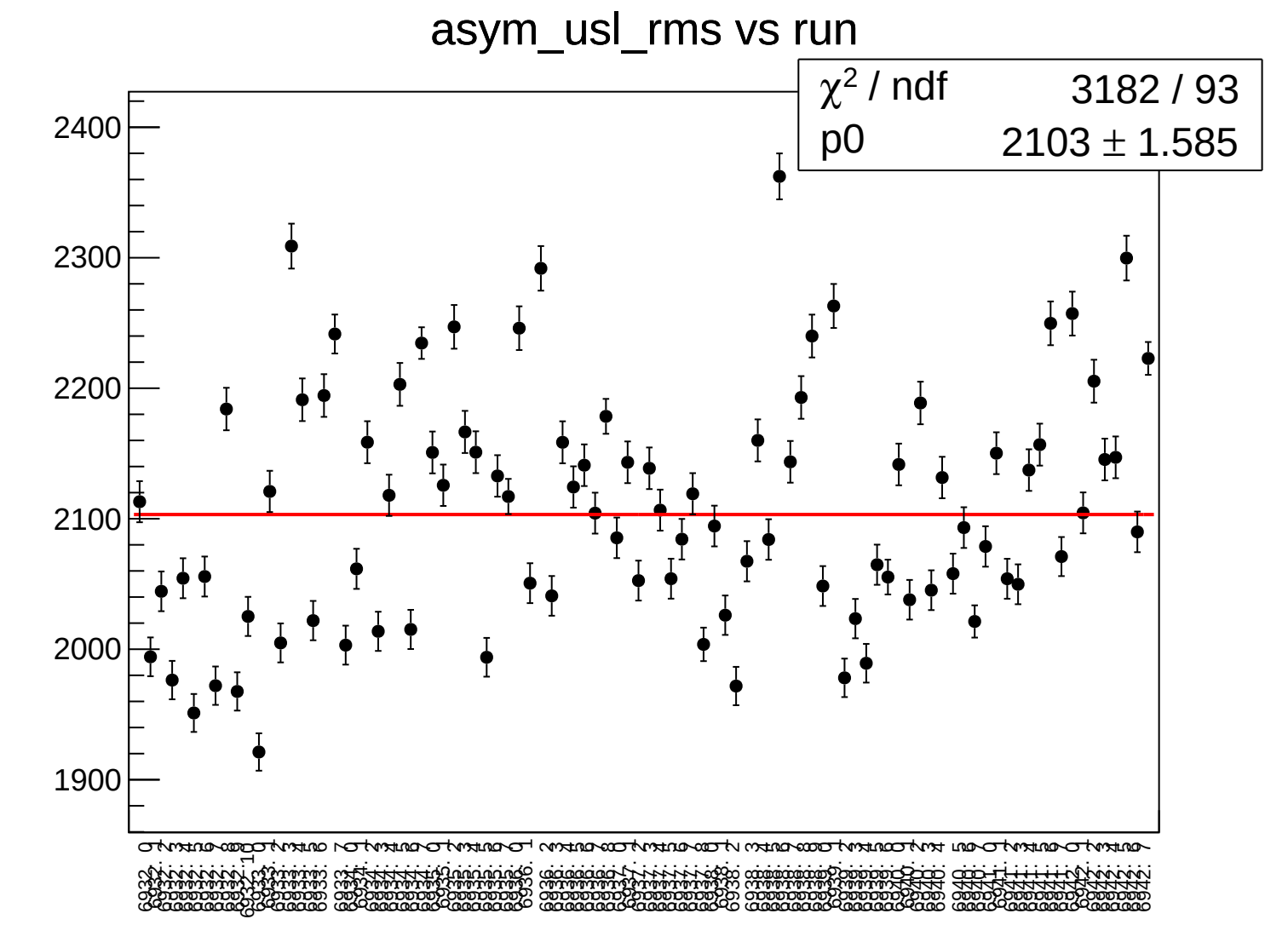

eigen_dit_asym_usl_rms vs run
χ² / ndf 118.2 / 93
p0 1107 ± 0.8338
1140
1130
1120
1110
1100
1090
1080

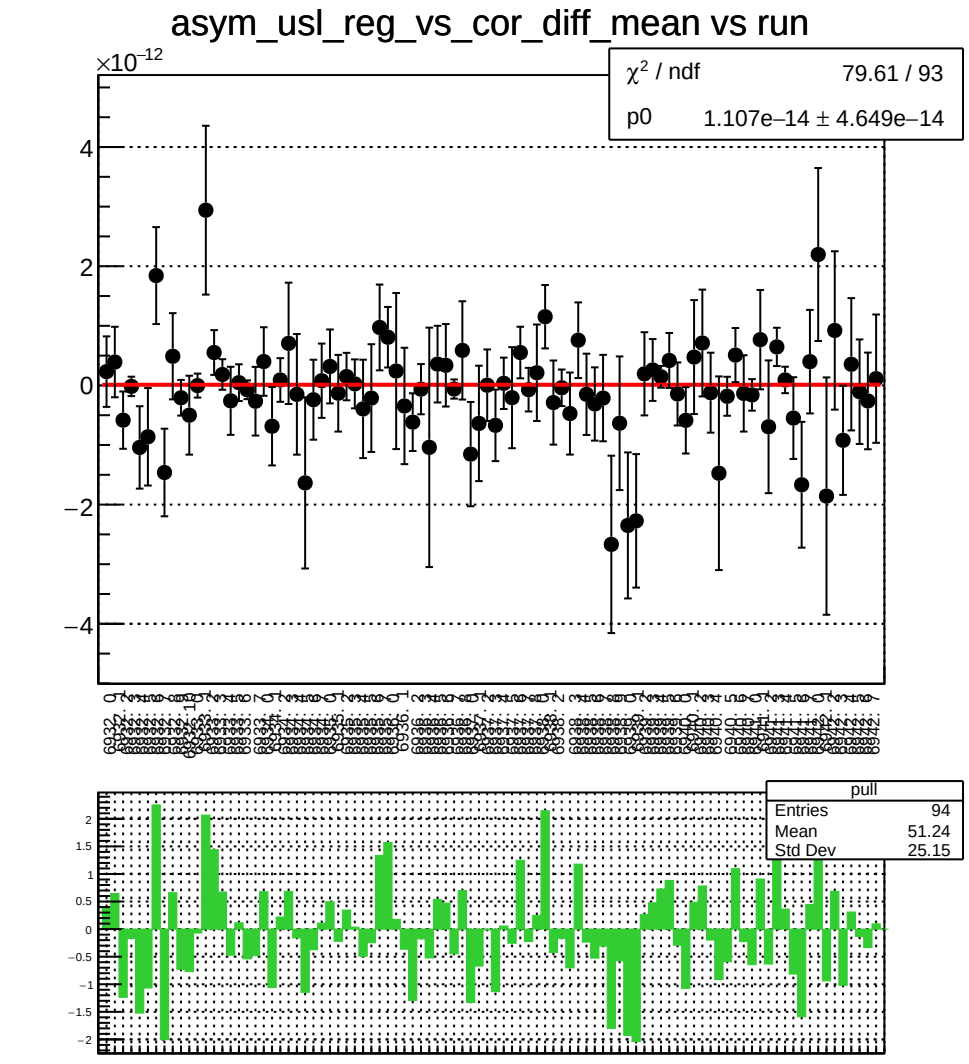

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 87.6 / 93
p0 2047 ± 1892
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 364.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

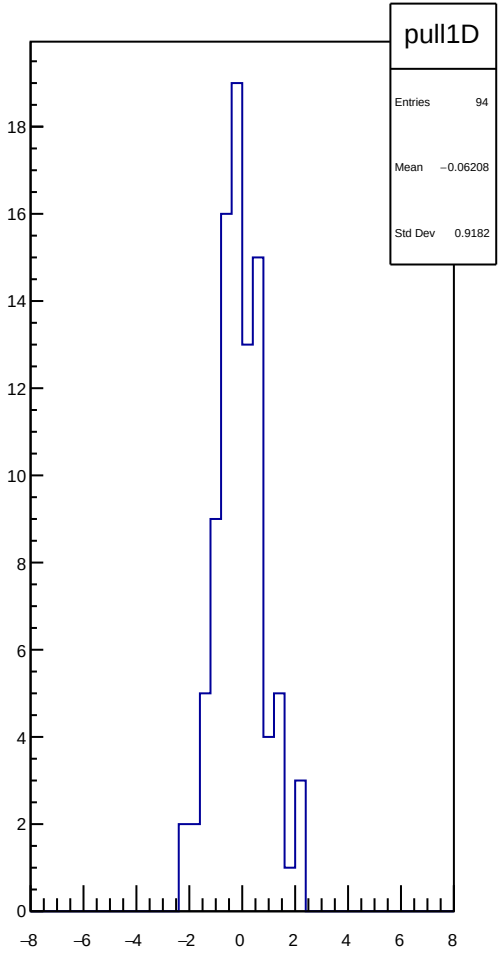

pull1D
Entries 94
Mean −0.009936
Std Dev 0.9653
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

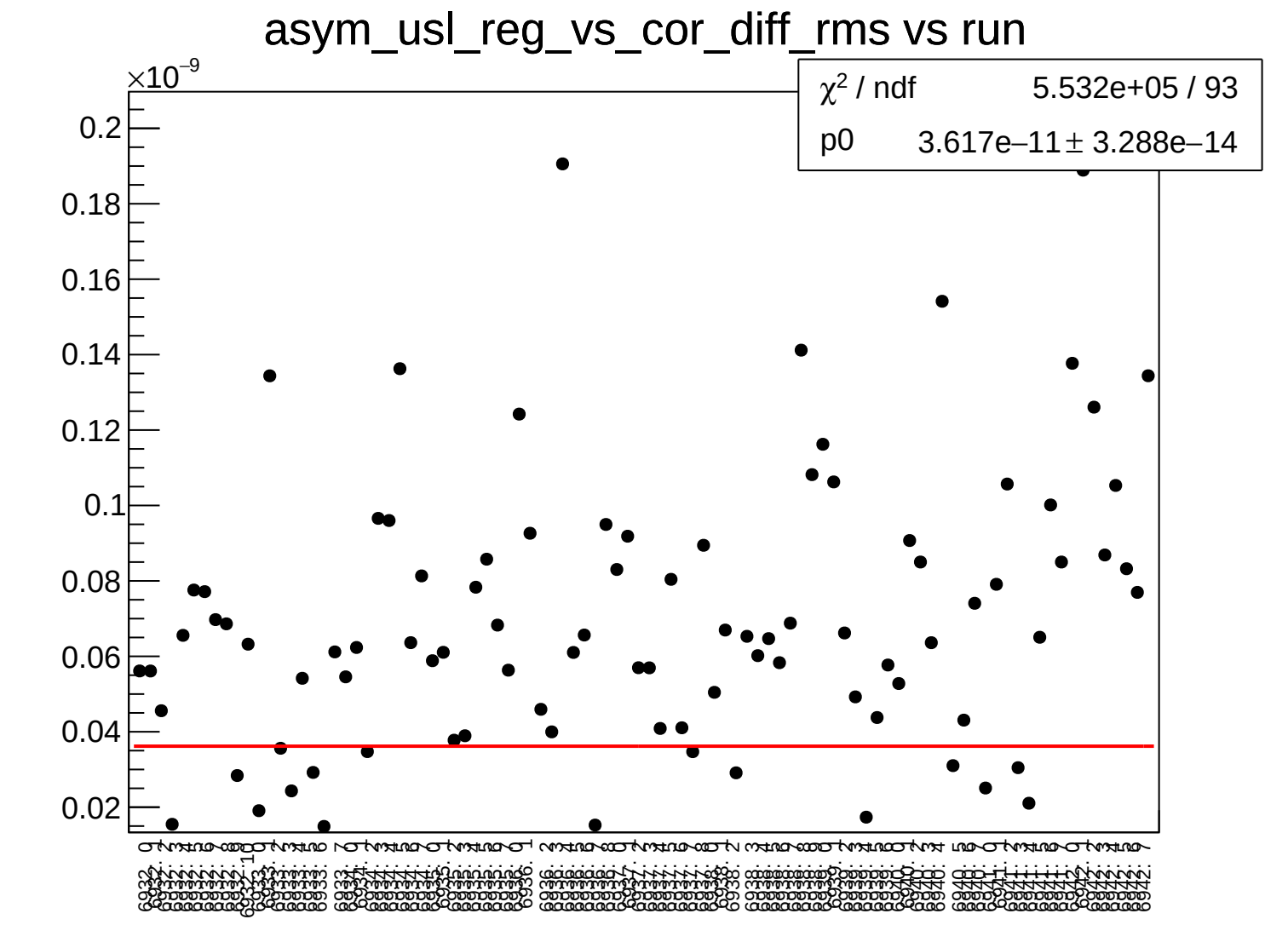

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4939 / 93
p0 1774 ± 1.338
2000
1900
1800
1700
1600

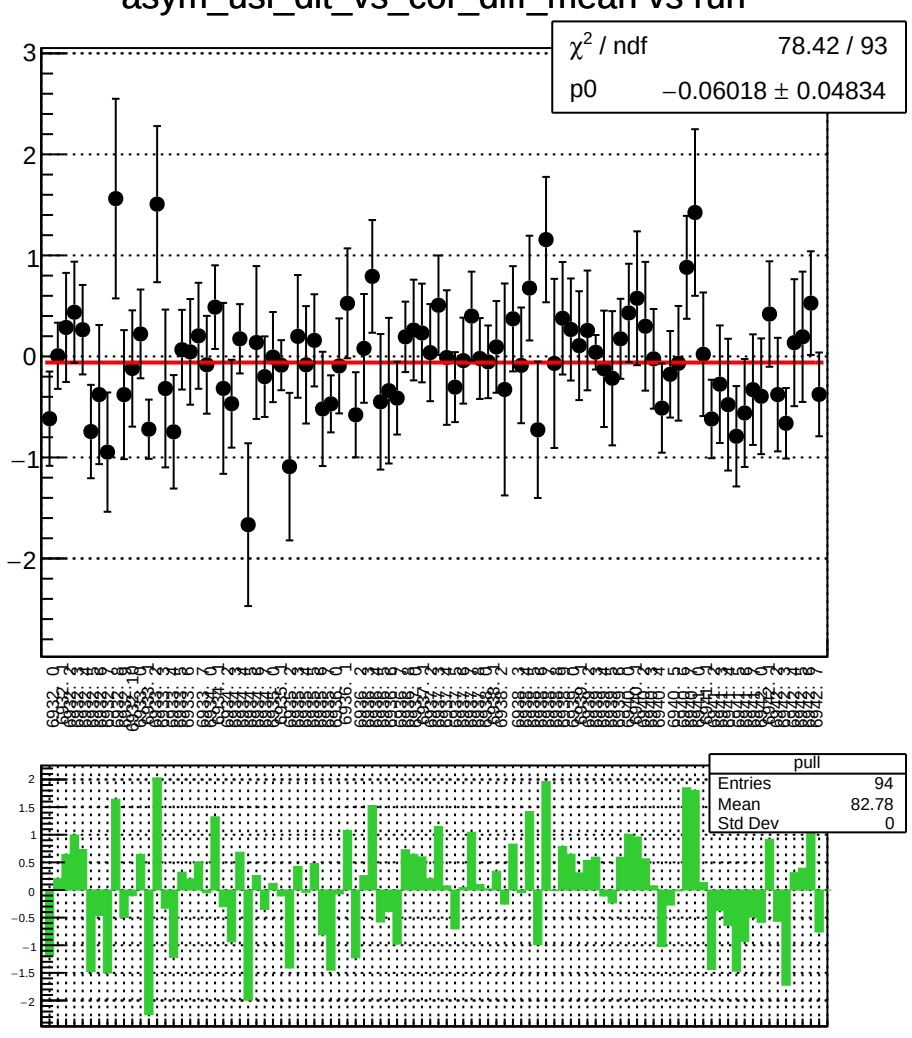

asym_usl_mean vs run
χ² / ndf 81.77 / 93
p0 −1665 ± 2242
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 410.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006835
Std Dev 0.9327
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

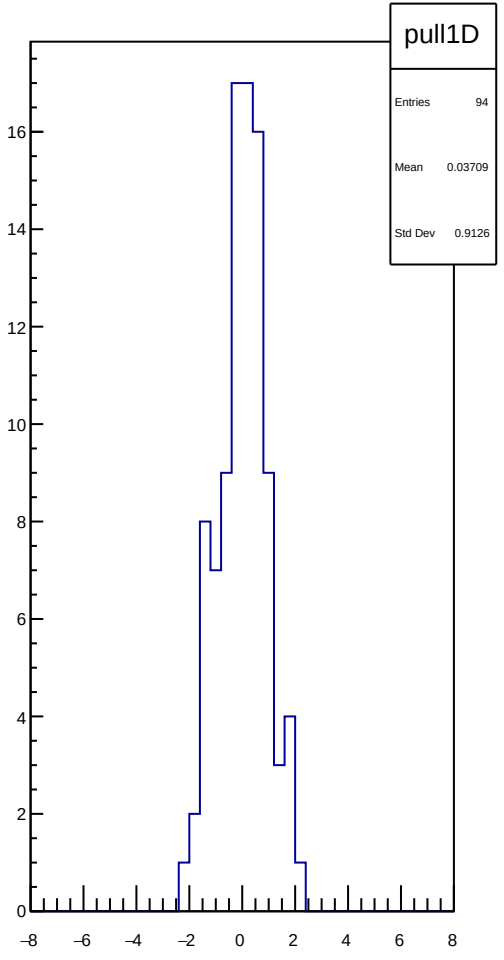

asym_usl_rms vs run
χ² / ndf 3182 / 93
p0 2103 ± 1.585
2400
2300
2200
2100
2000
1900

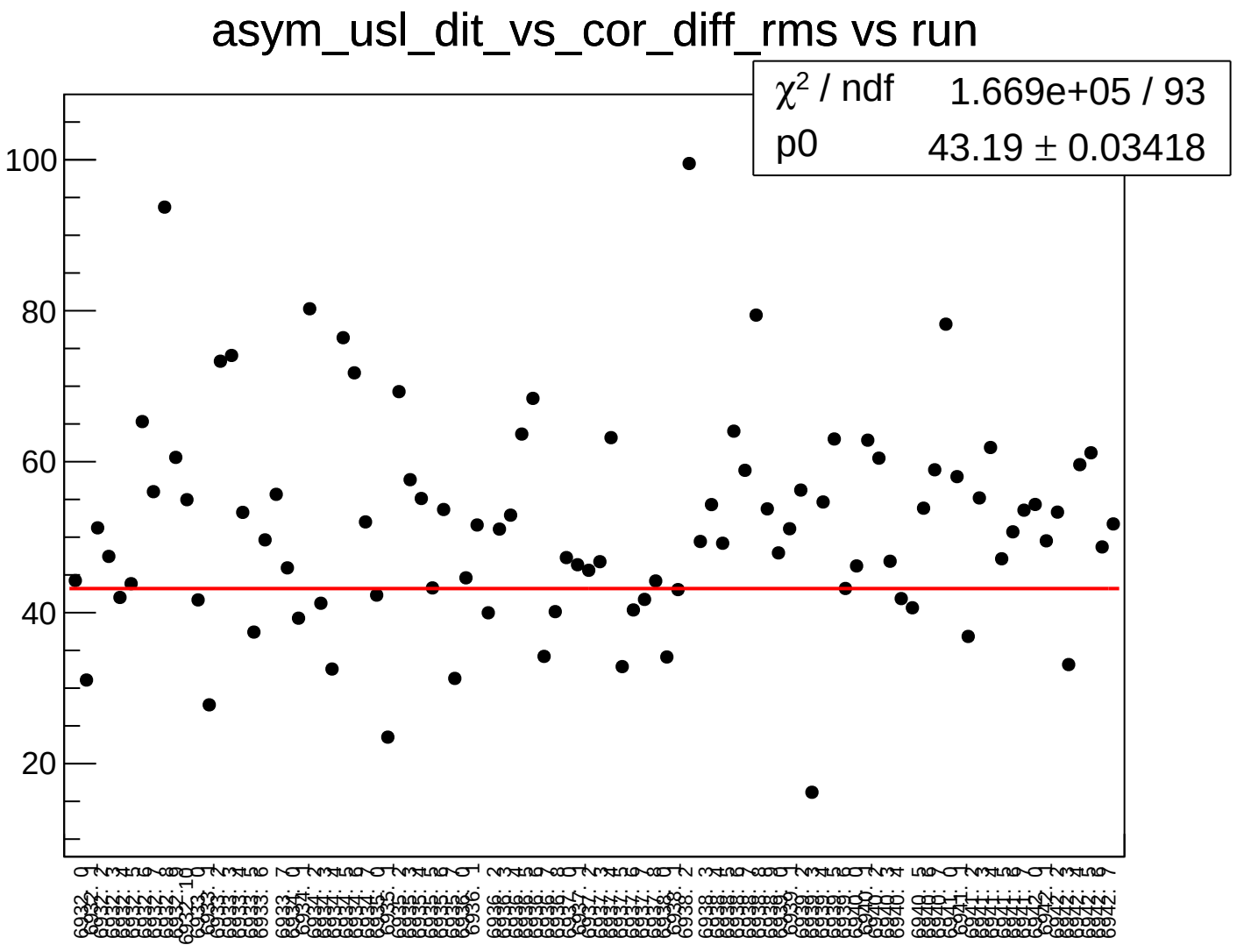

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.61 / 93
p0 1.107e−14 ± 4.649e−14
pull
Entries 94
Mean 51.24
Std Dev 25.15

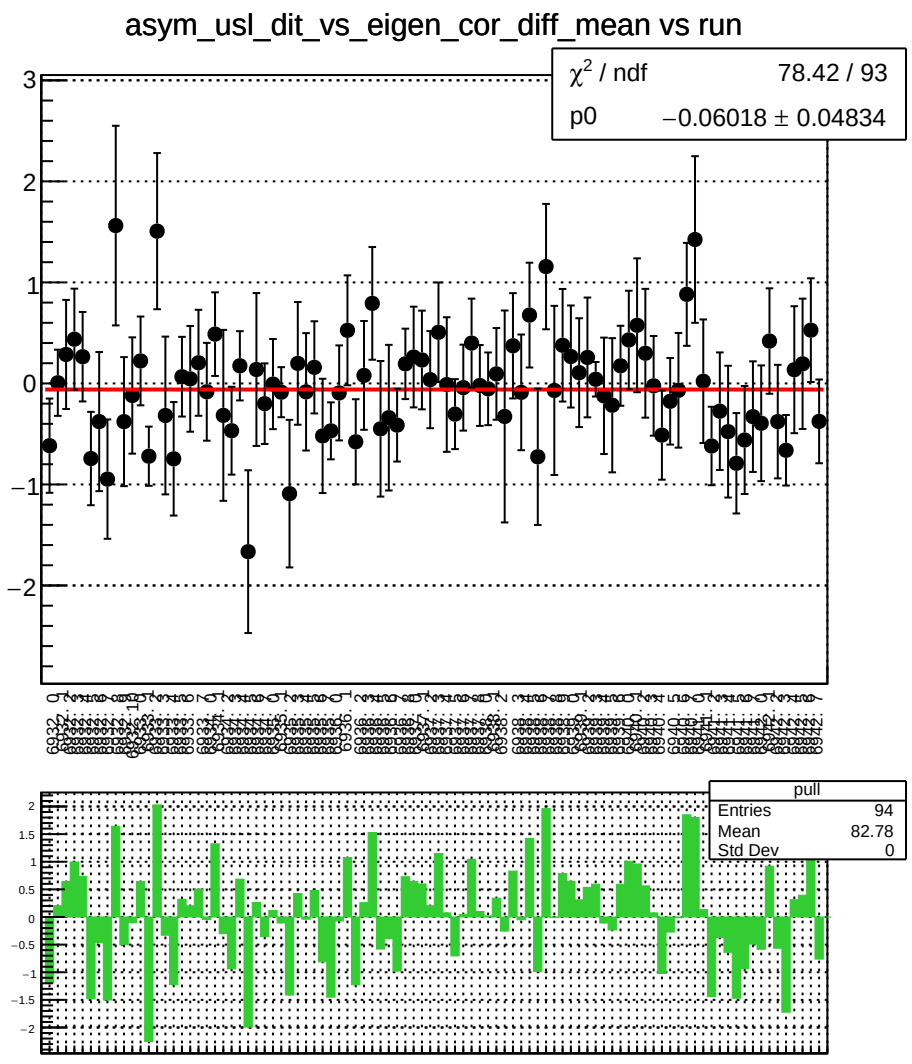

pull1D
Entries 94
Mean −0.06208
Std Dev 0.9182

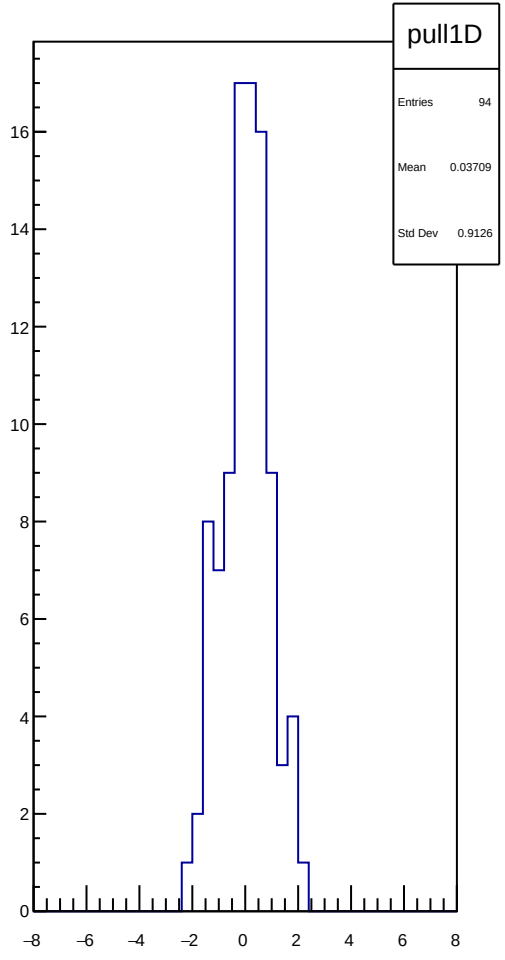

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.532e+05 / 93
p0 3.617e−11 ± 3.288e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

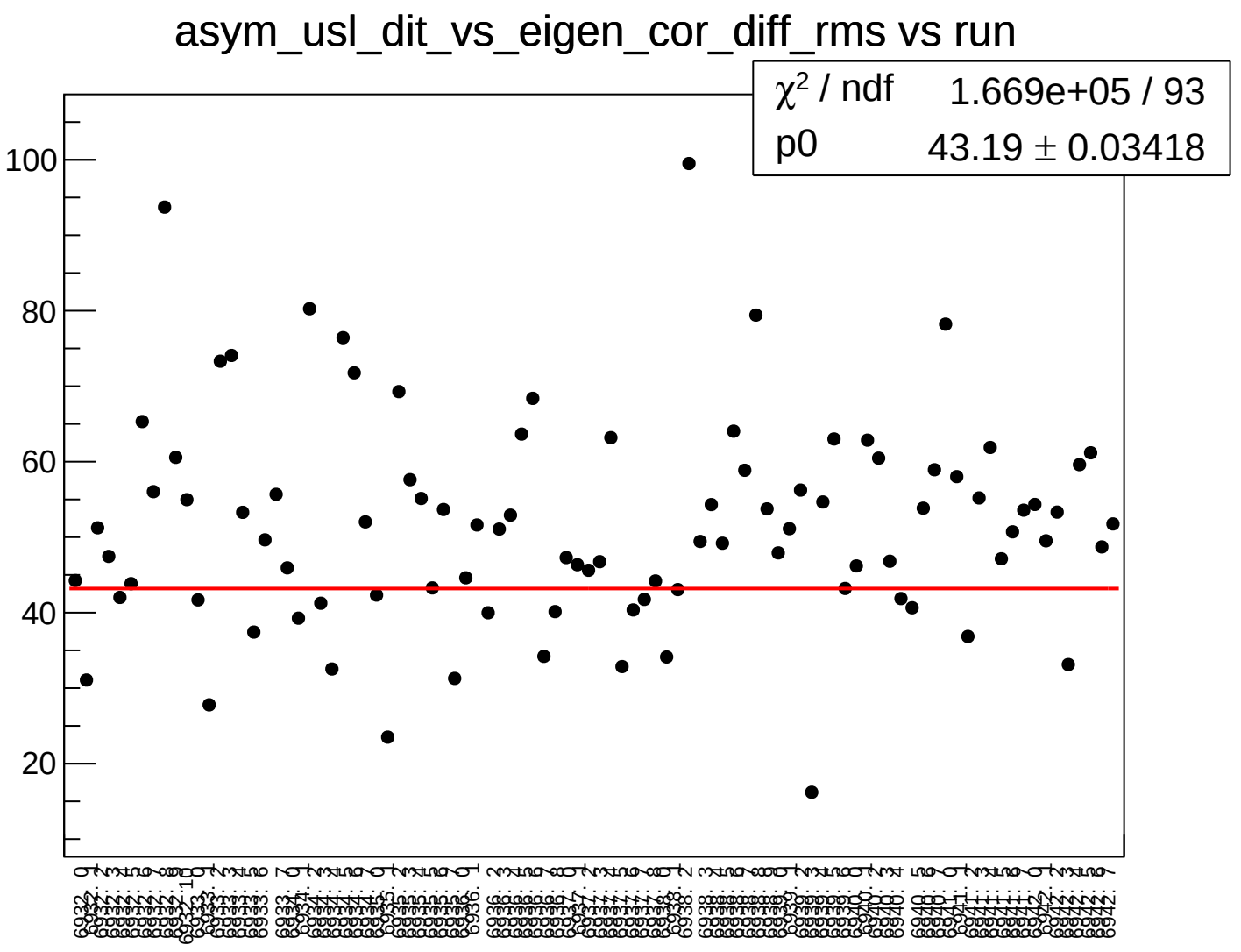

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 93
p0 −0.06018 ± 0.04834
pull
Entries 94
Mean 82.78
Std Dev 0

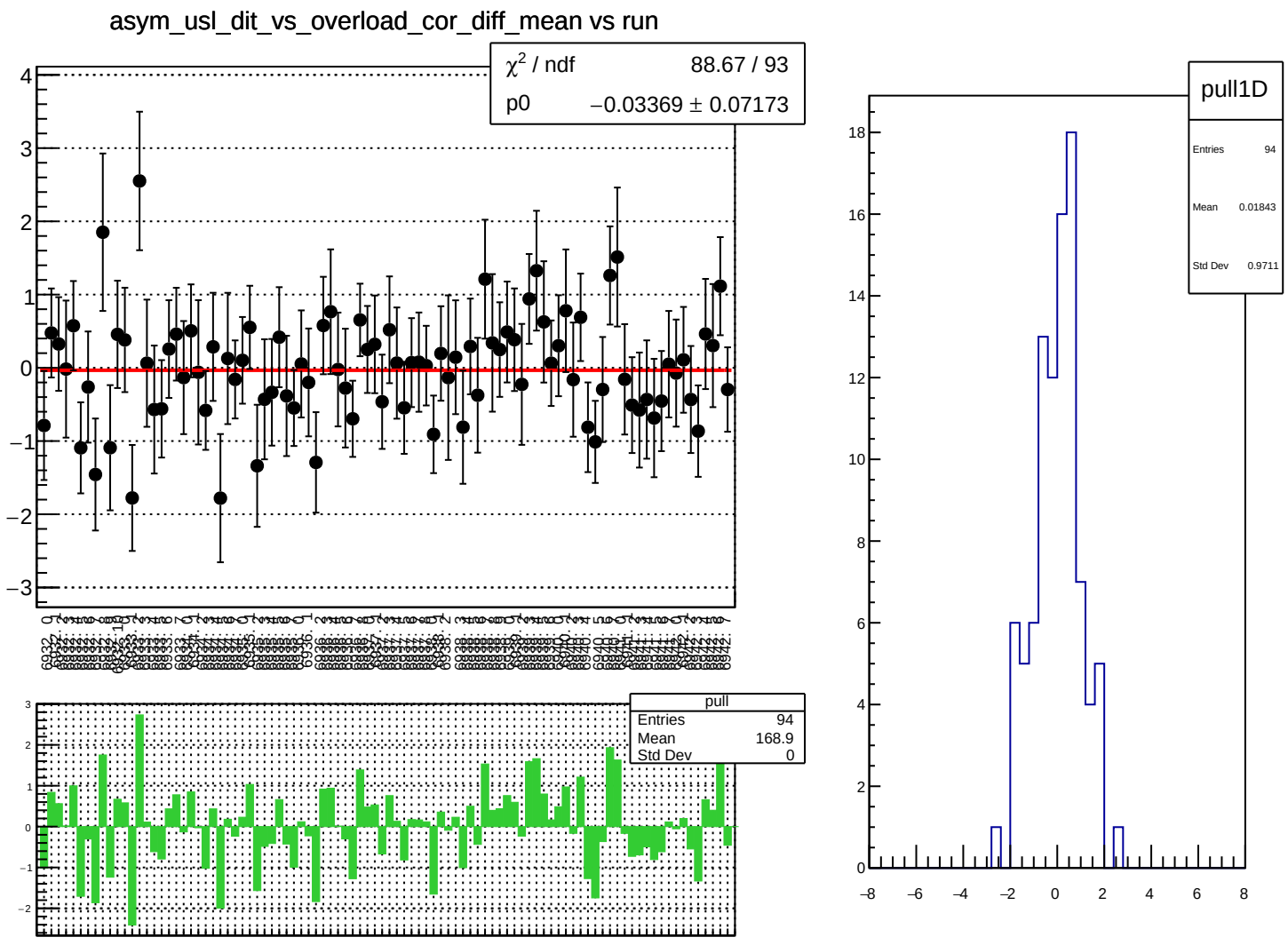

pull1D
Entries 94
Mean 0.03709
Std Dev 0.9126

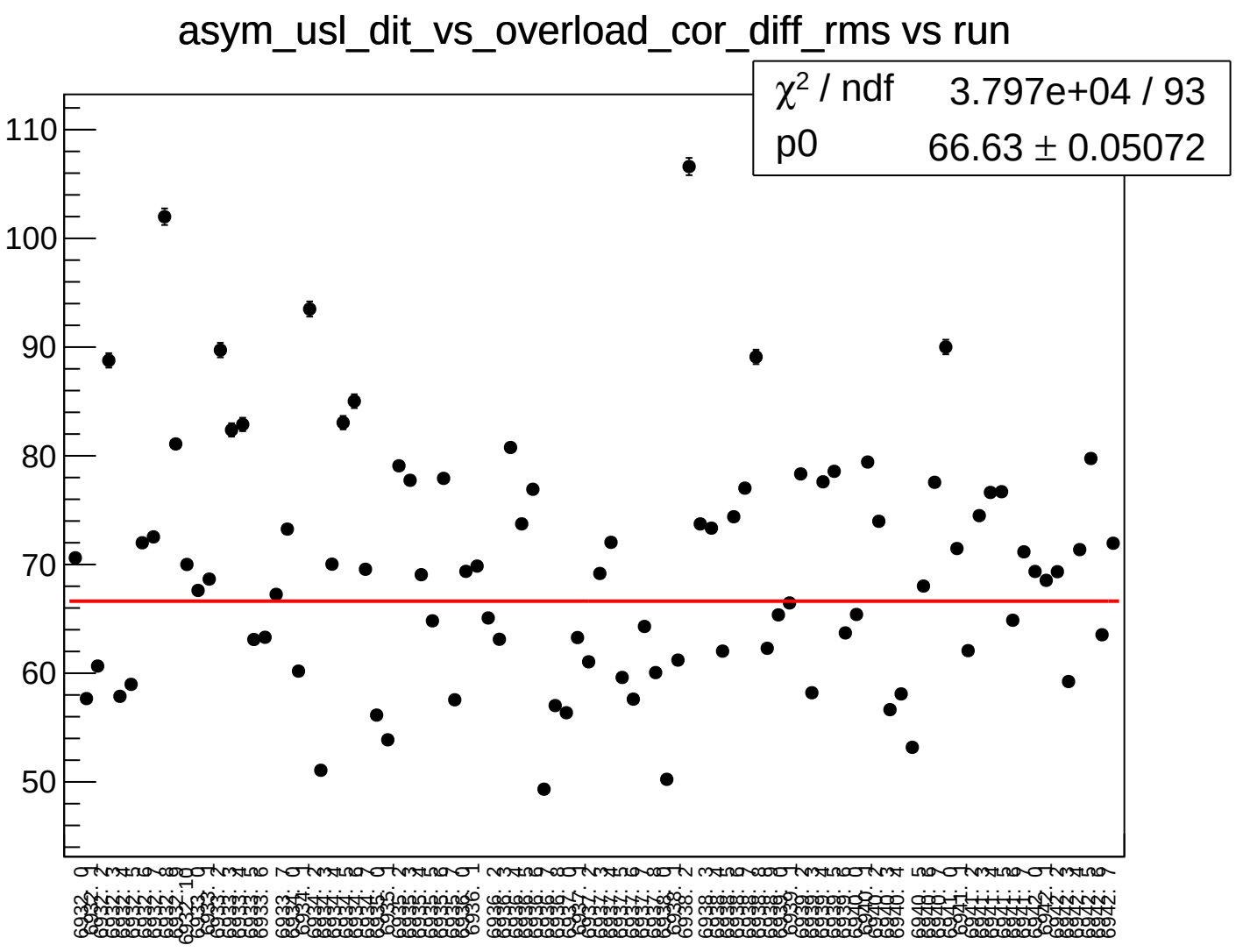

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 93
p0 43.19 ± 0.03418
100
80
60
40
20

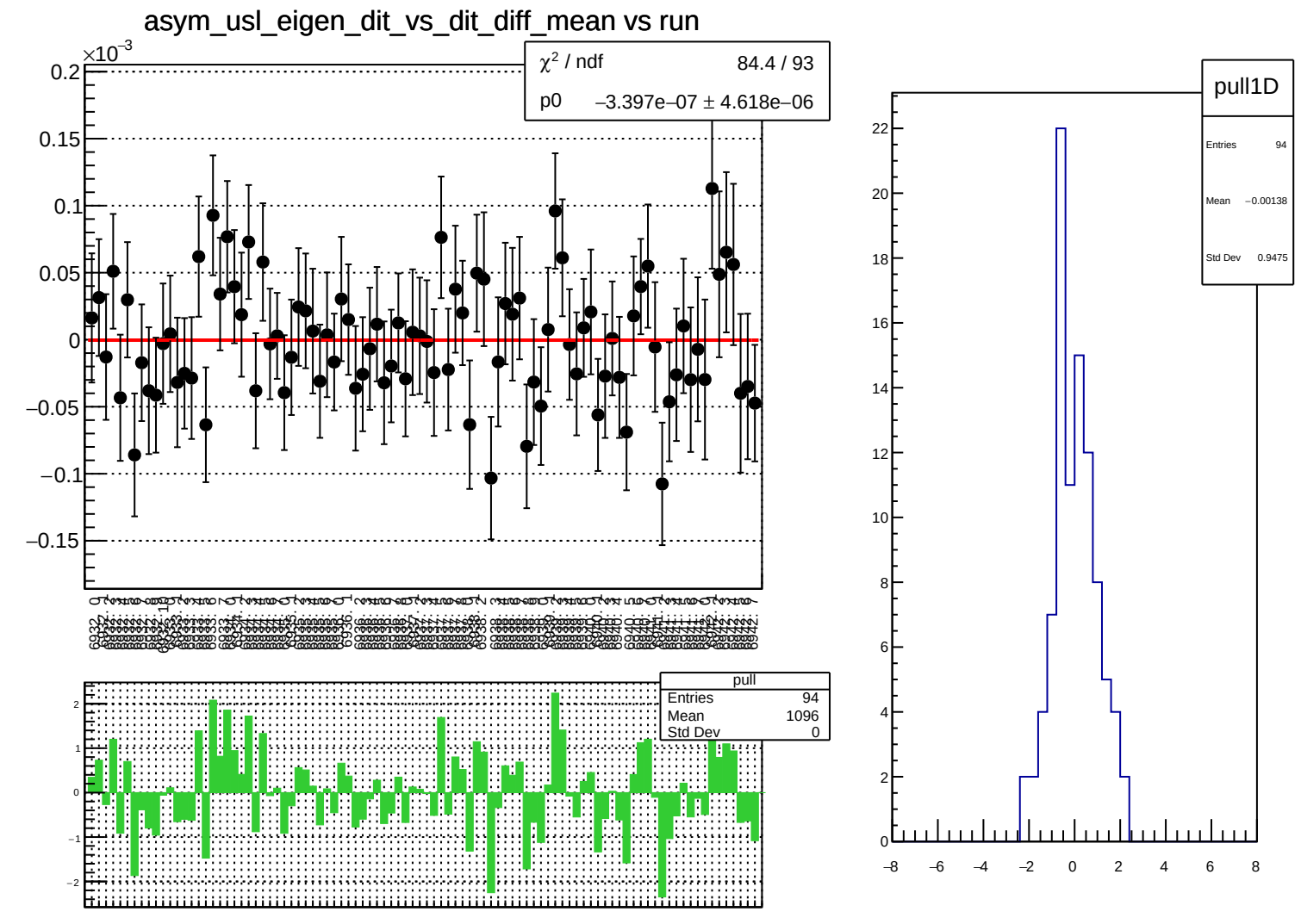

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 93
p0 −0.06018 ± 0.04834
pull
Entries 94
Mean 82.78
Std Dev 0

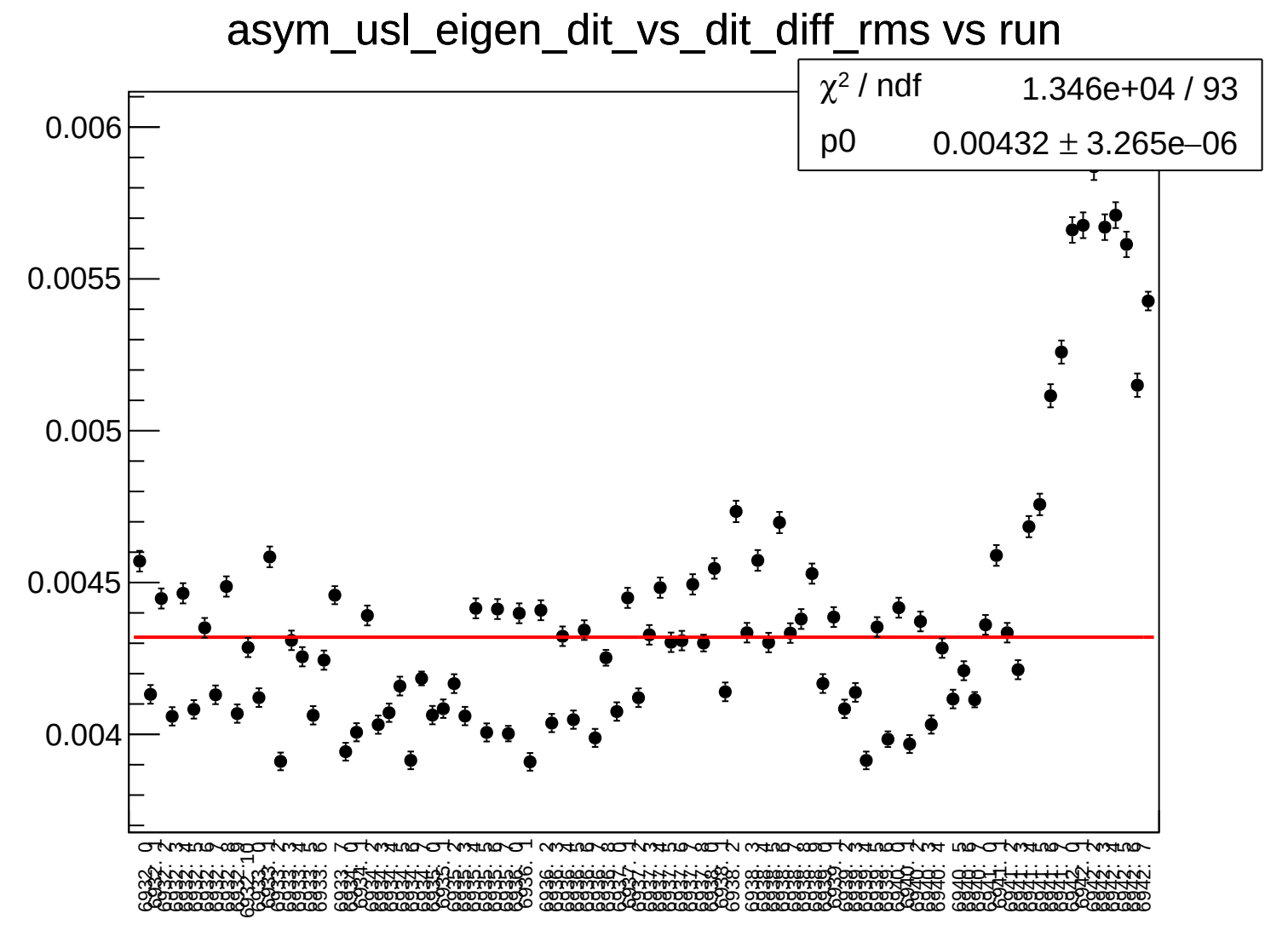

pull1D
Entries 94
Mean 0.03709
Std Dev 0.9126

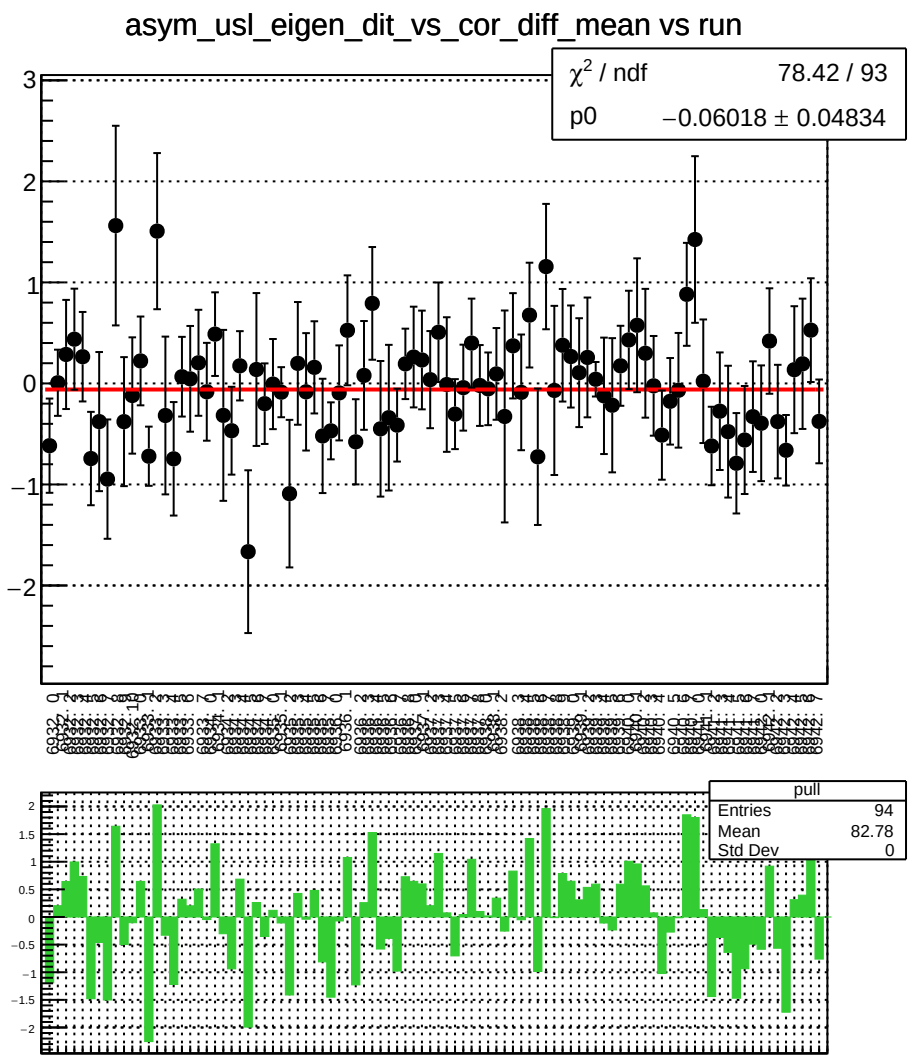

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 93
p0 43.19 ± 0.03418
100
80
60
40
20

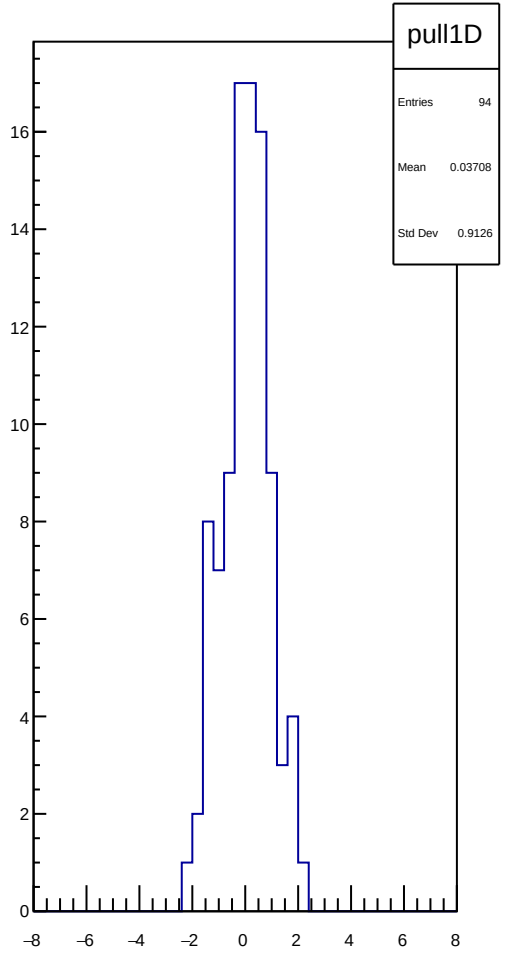

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.67 / 93
p0 −0.03369 ± 0.07173
pull
Entries 94
Mean 168.9
Std Dev 0
pull1D
Entries 94
Mean 0.01843
Std Dev 0.9711

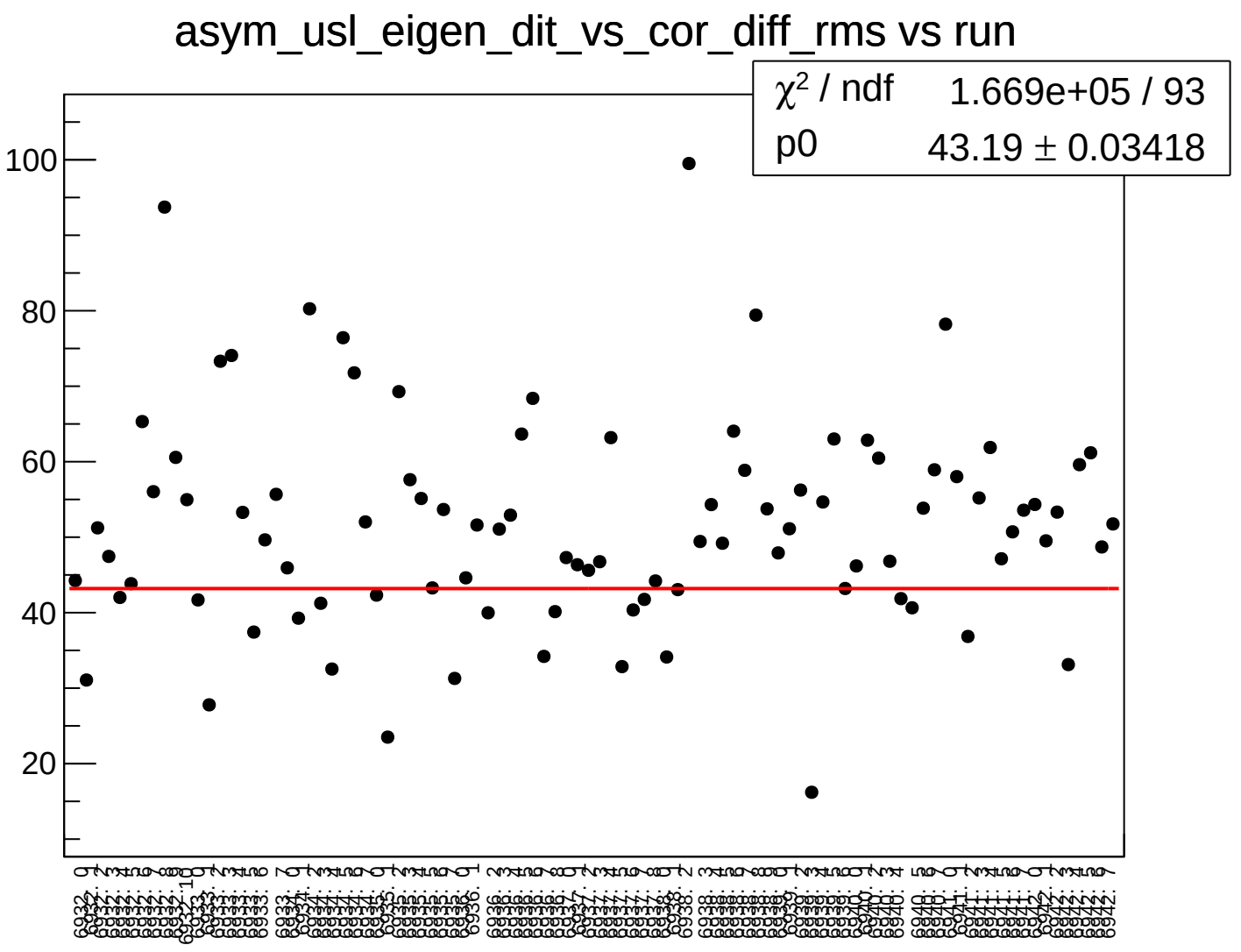

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 3.797e+04 / 93
p0 66.63 ± 0.05072
110
100
90
80
70
60
50

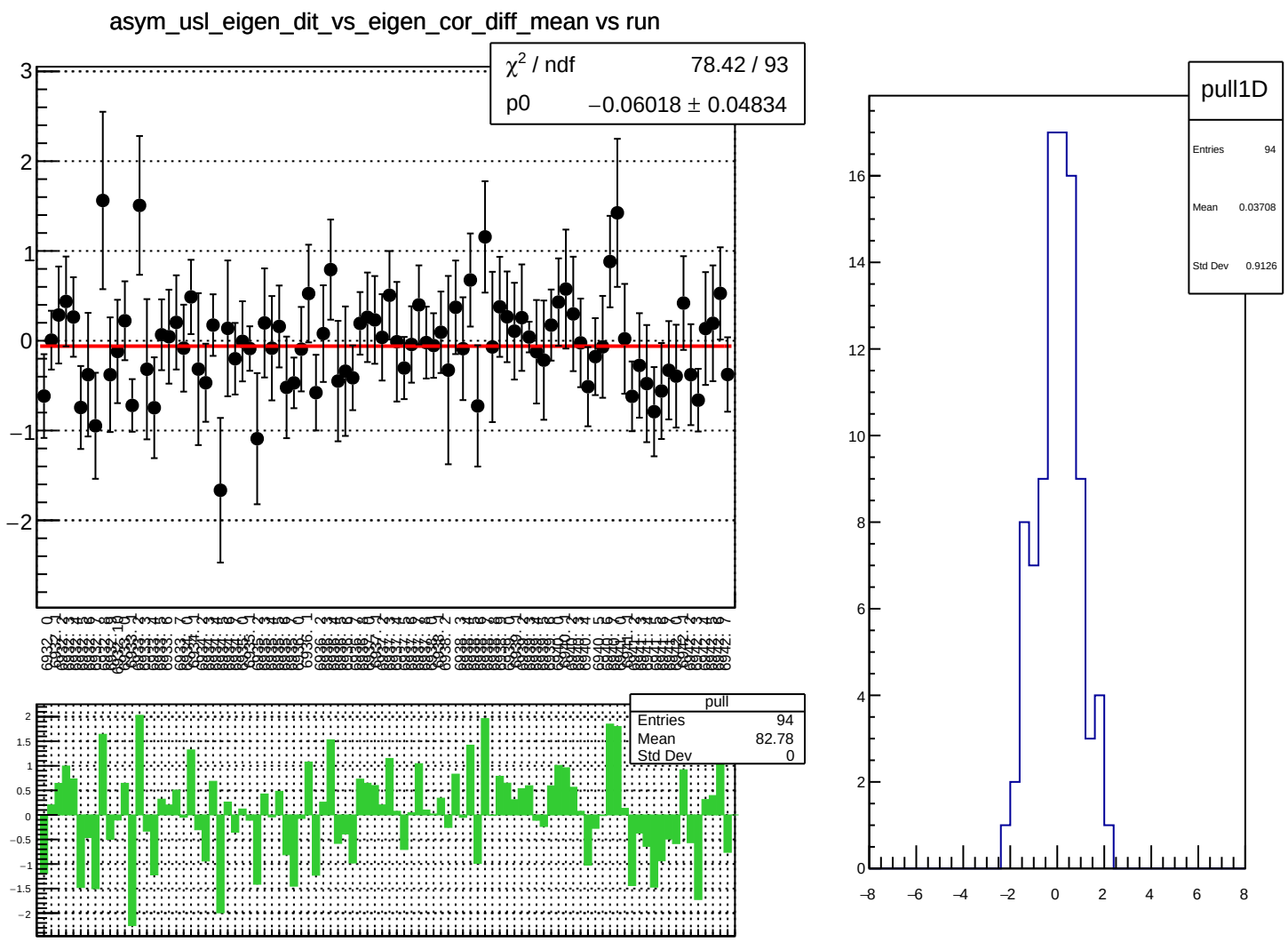

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.4 / 93
p0 −3.397e−07 ± 4.618e−06
pull
Entries 94
Mean 1096
Std Dev 0
pull1D
Entries 94
Mean −0.00138
Std Dev 0.9475

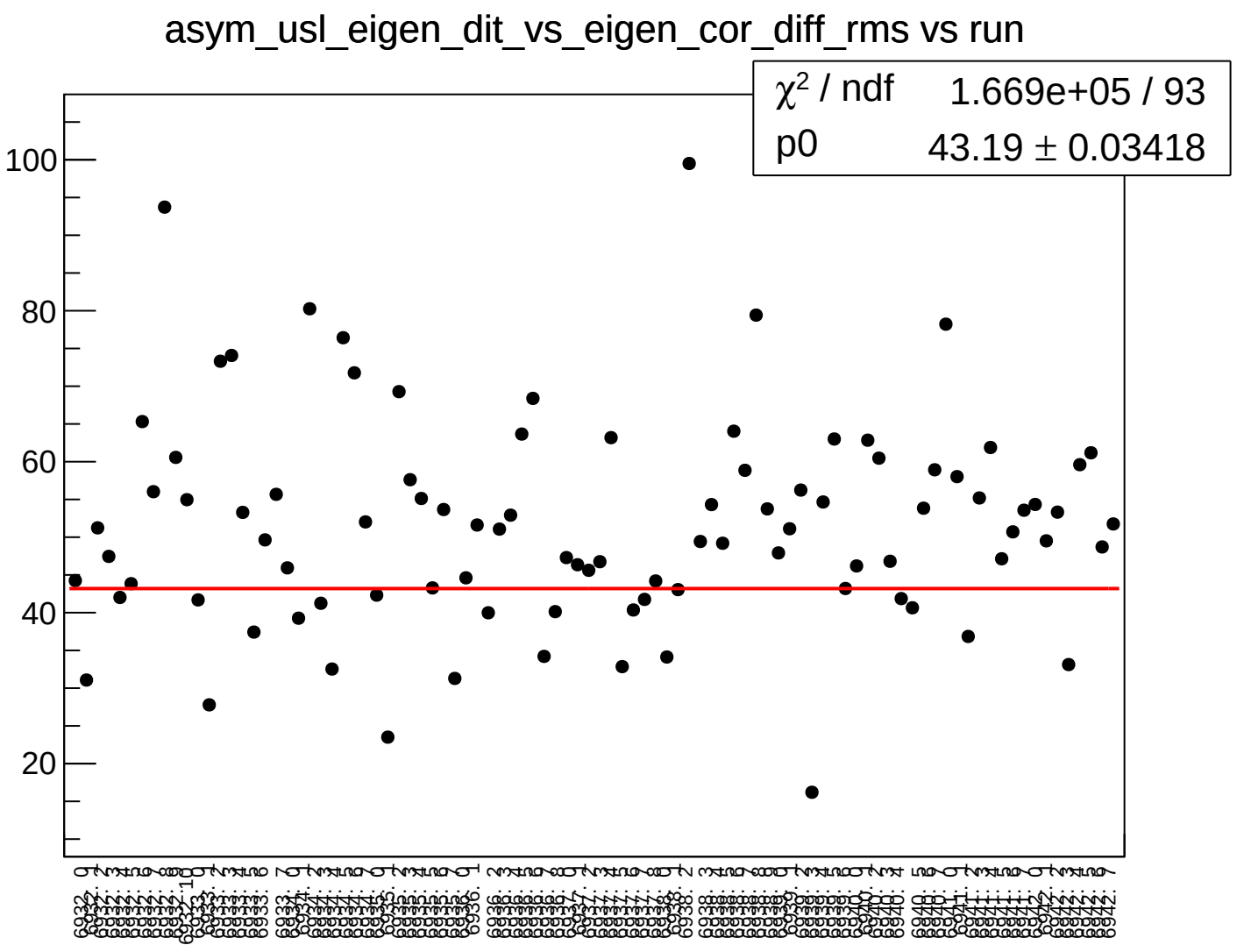

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.346e+04 / 93
p0 0.00432 ± 3.265e–06
0.006
0.0055
0.005
0.0045
0.004

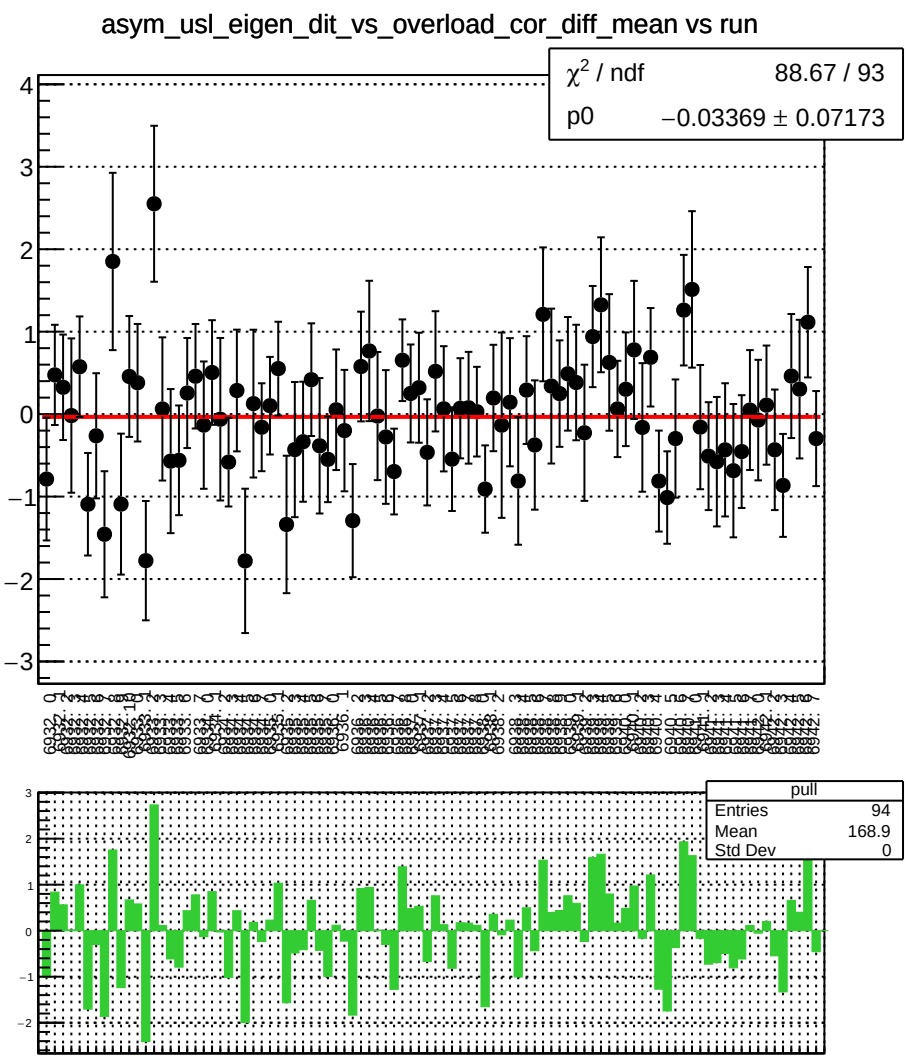

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 93
p0 −0.06018 ± 0.04834
pull
Entries 94
Mean 82.78
Std Dev 0

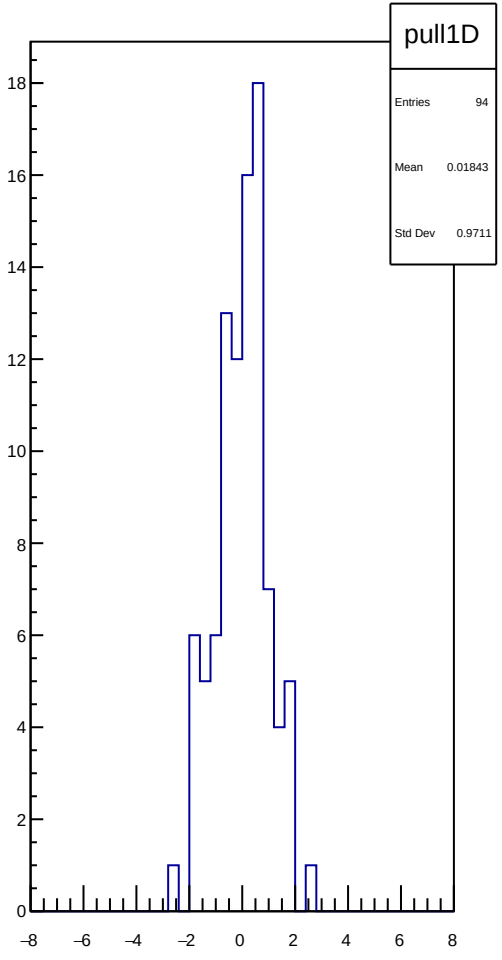

pull1D
Entries 94
Mean 0.03708
Std Dev 0.9126

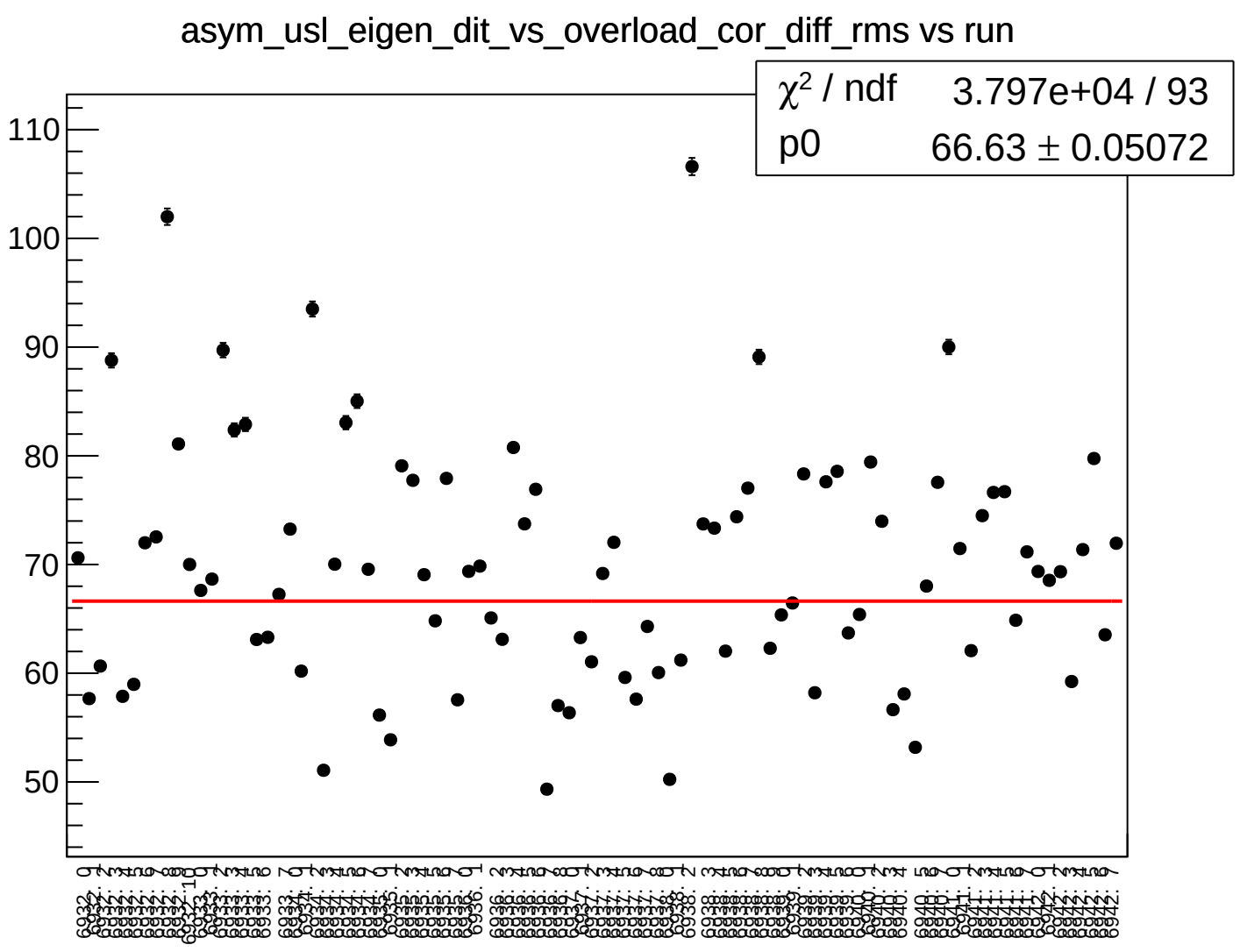

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 93
p0 43.19 ± 0.03418
100
80
60
40
20

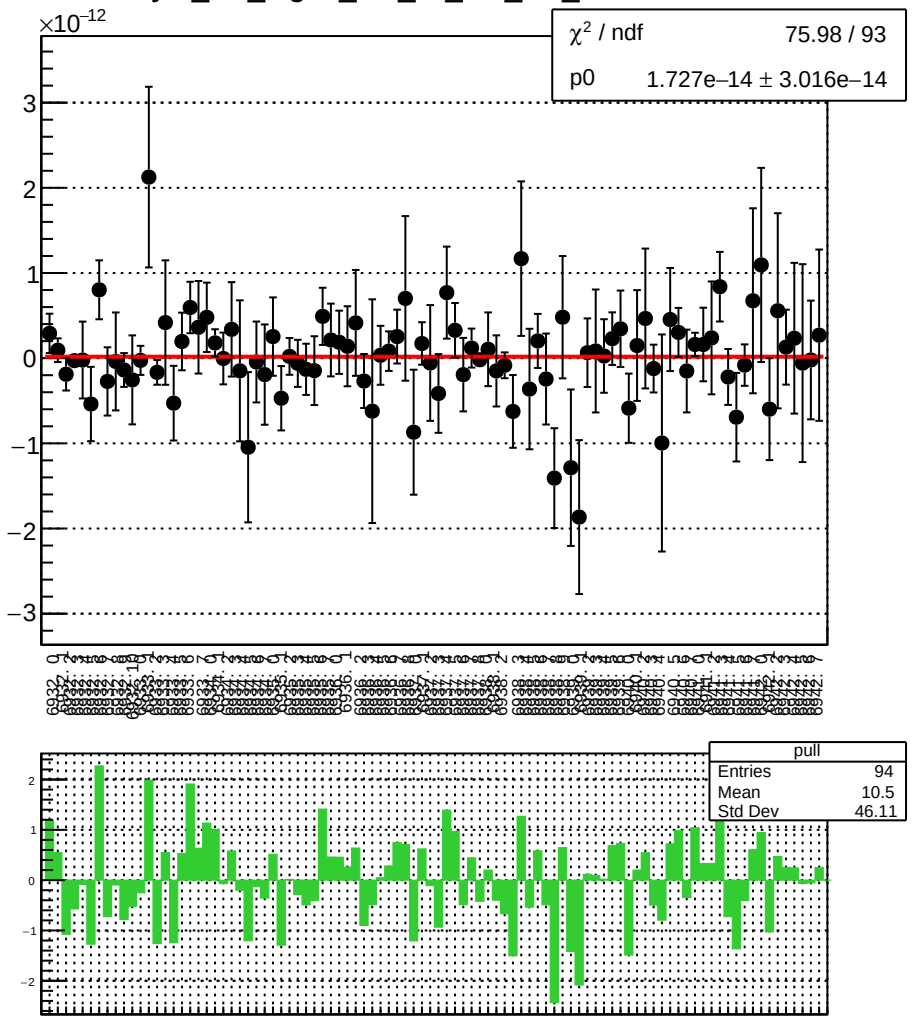

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.42 / 93
p0 −0.06018 ± 0.04834
pull
Entries 94
Mean 82.78
Std Dev 0
pull1D
Entries 94
Mean 0.03708
Std Dev 0.9126

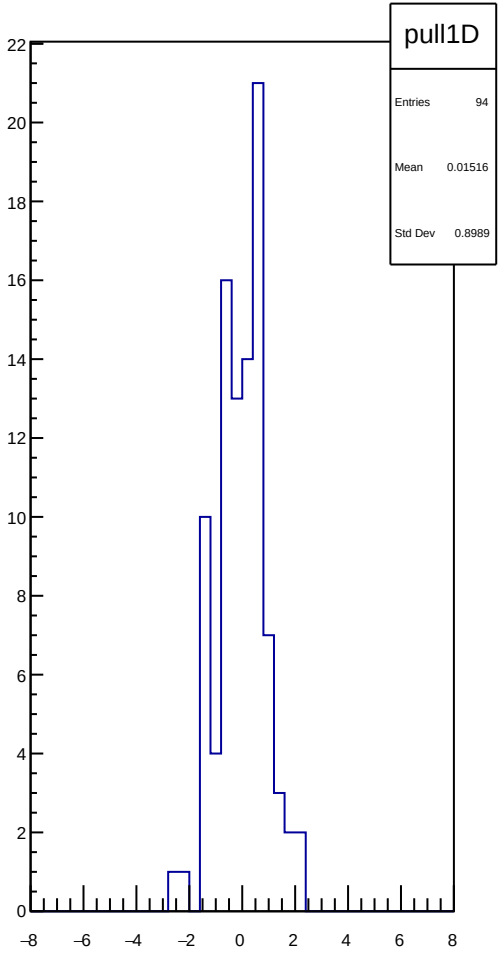

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.669e+05 / 93
p0 43.19 ± 0.03418
100
80
60
40
20

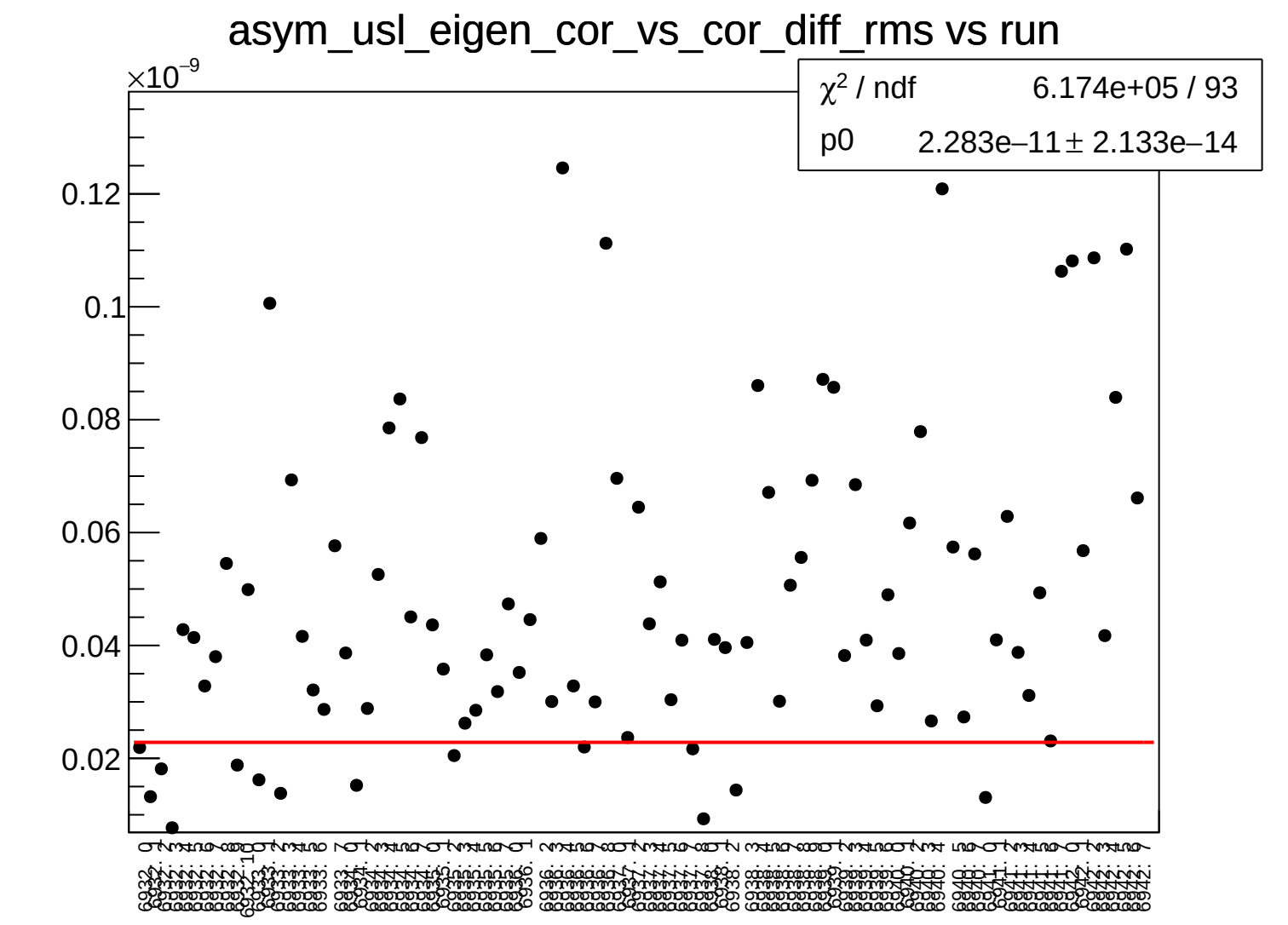

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 88.67 / 93
p0 −0.03369 ± 0.07173
pull
Entries 94
Mean 168.9
Std Dev 0

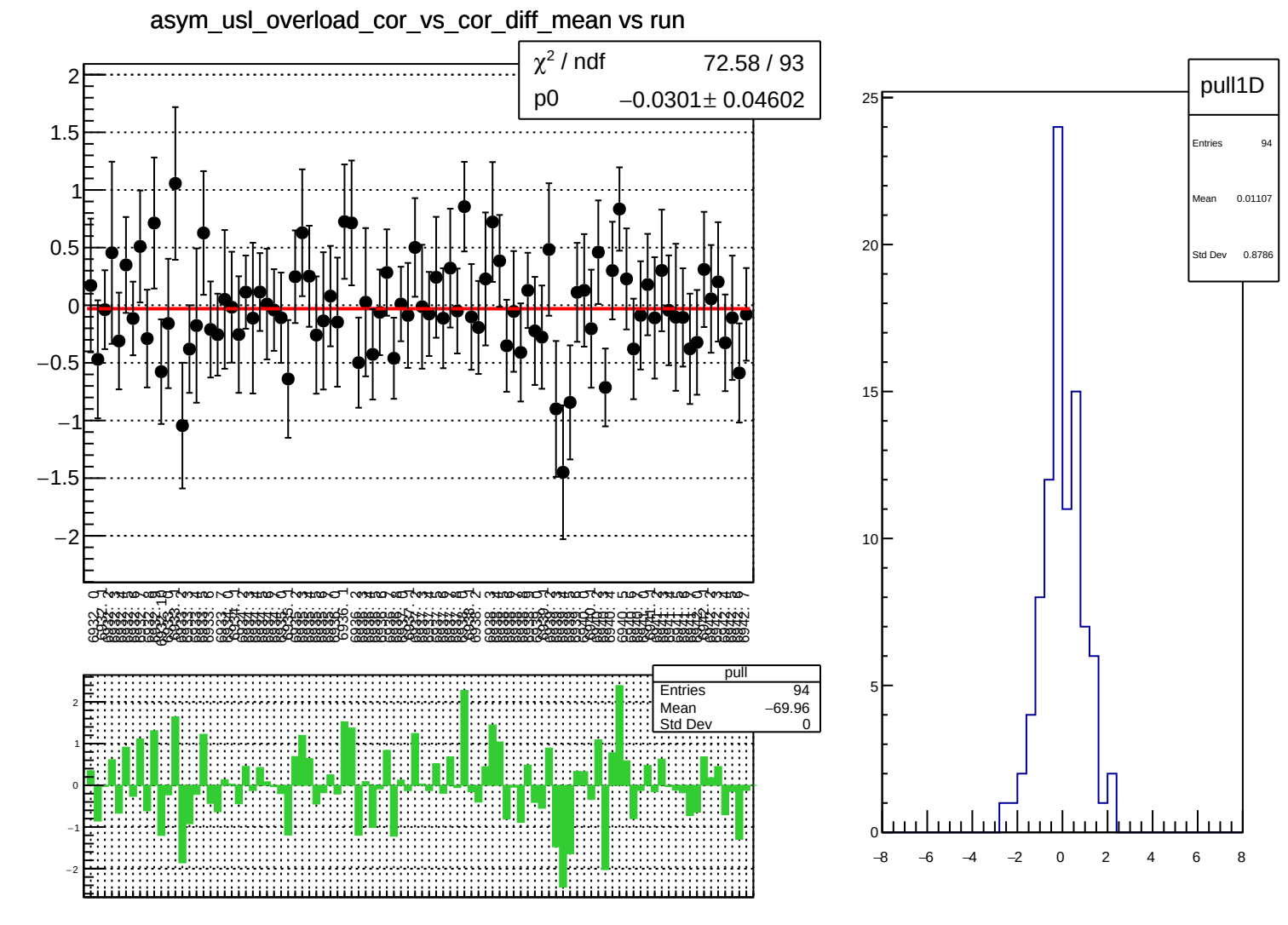

pull1D
Entries 94
Mean 0.01843
Std Dev 0.9711

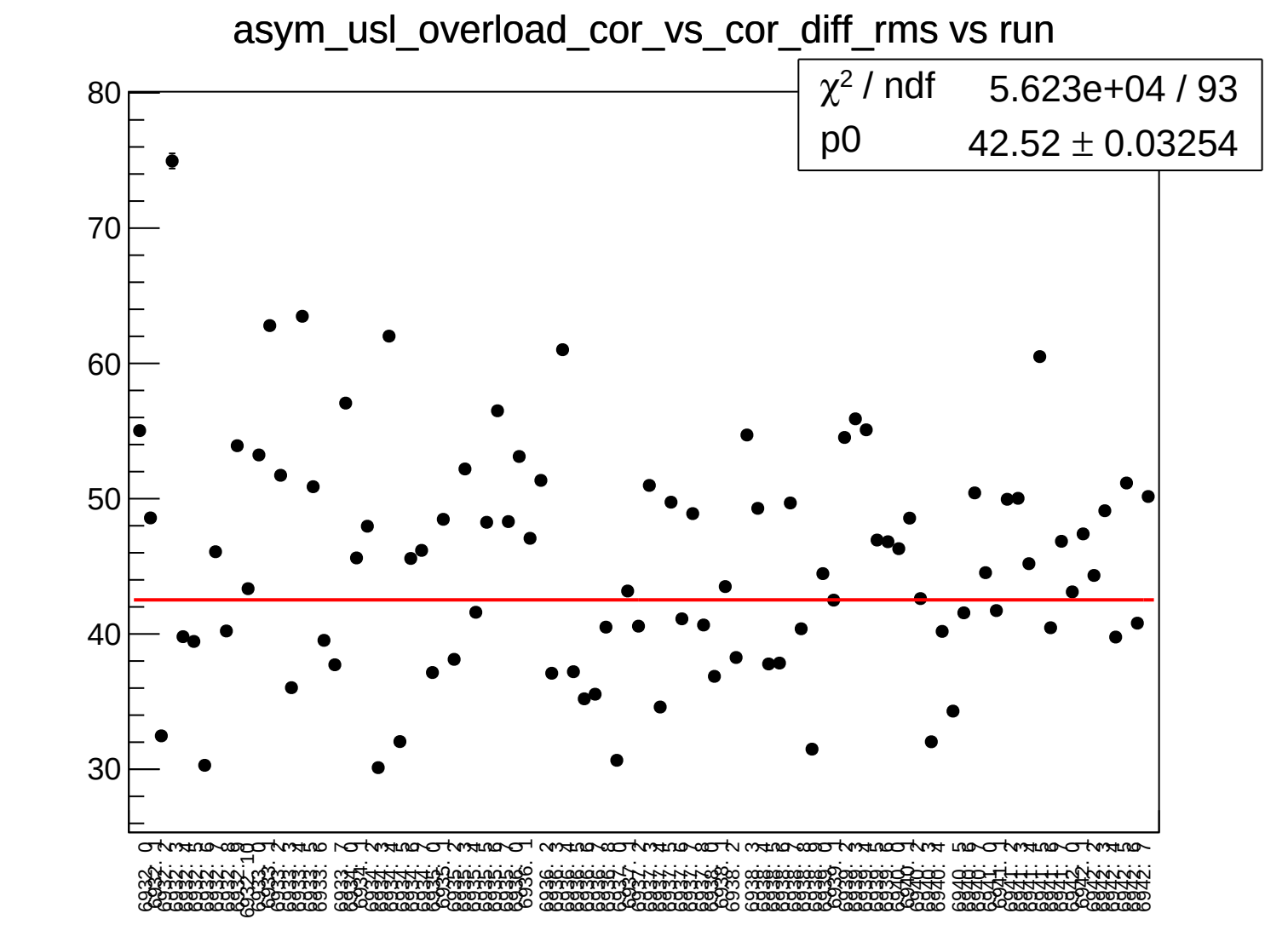

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 3.797e+04 / 93
p0 66.63 ± 0.05072
110
100
90
80
70
60
50

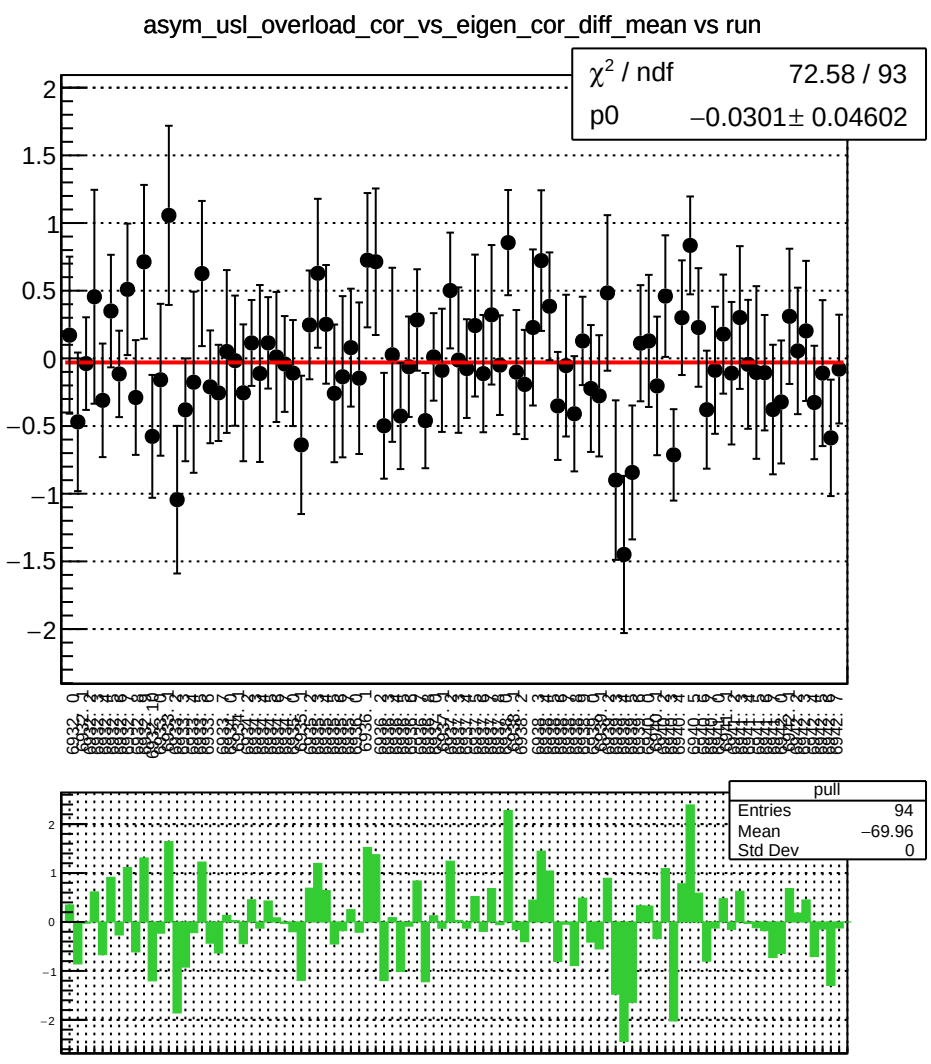

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.98 / 93
p0 1.727e−14 ± 3.016e−14
pull
Entries 94
Mean 10.5
Std Dev 46.11

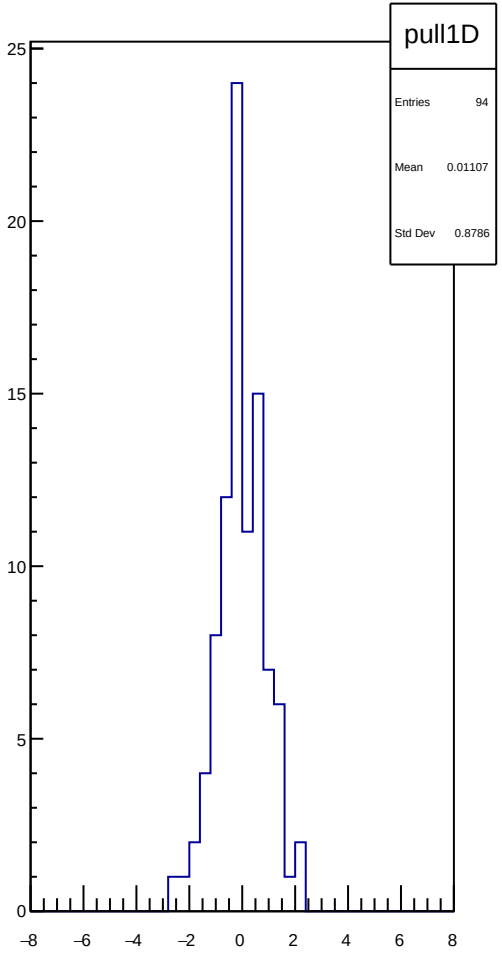

pull1D
Entries 94
Mean 0.01516
Std Dev 0.8989

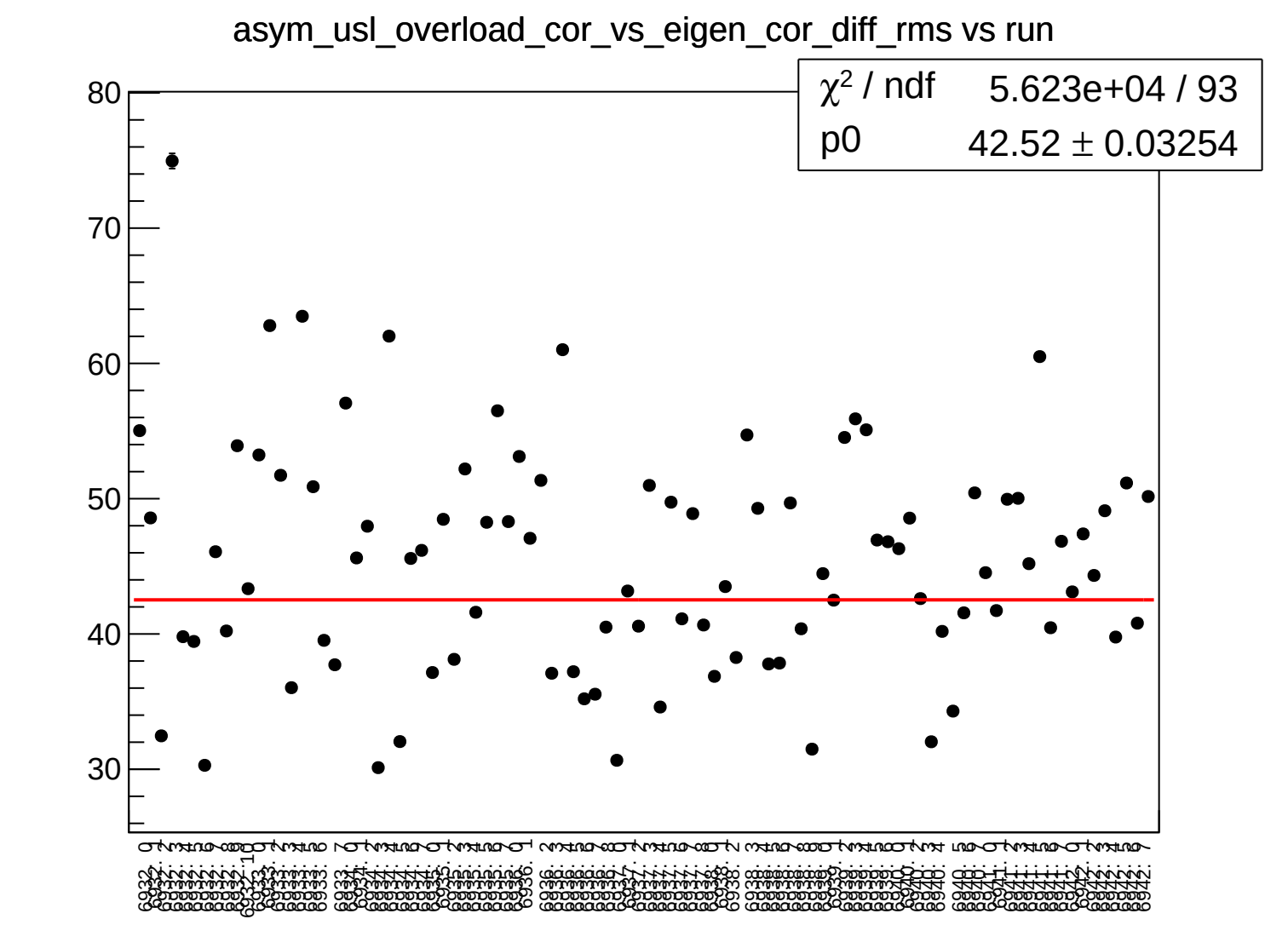

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.174e+05 / 93
p0 2.283e−11 ± 2.133e−14
0.12
0.1
0.08
0.06
0.04
0.02

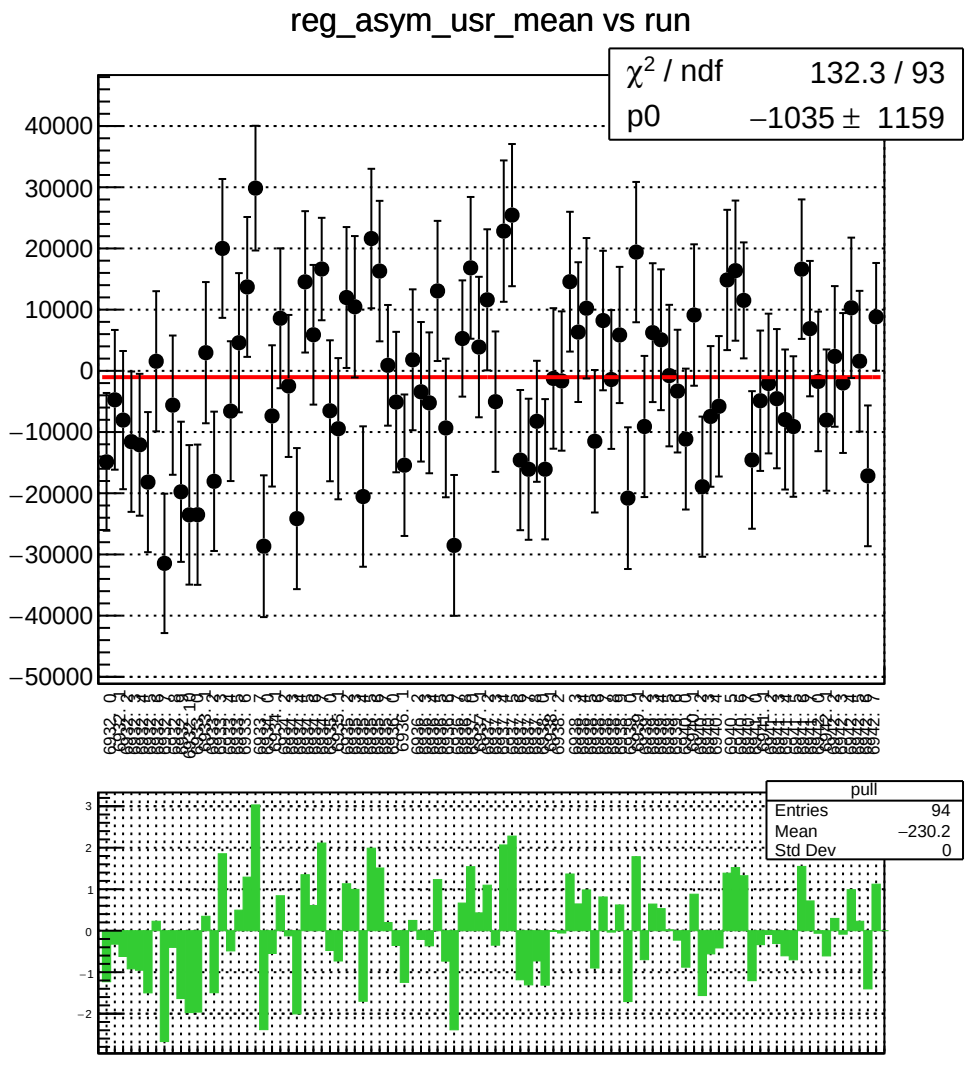

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 72.58 / 93
p0 −0.0301 ± 0.04602
pull
Entries 94
Mean −69.96
Std Dev 0
pull1D
Entries 94
Mean 0.01107
Std Dev 0.8786

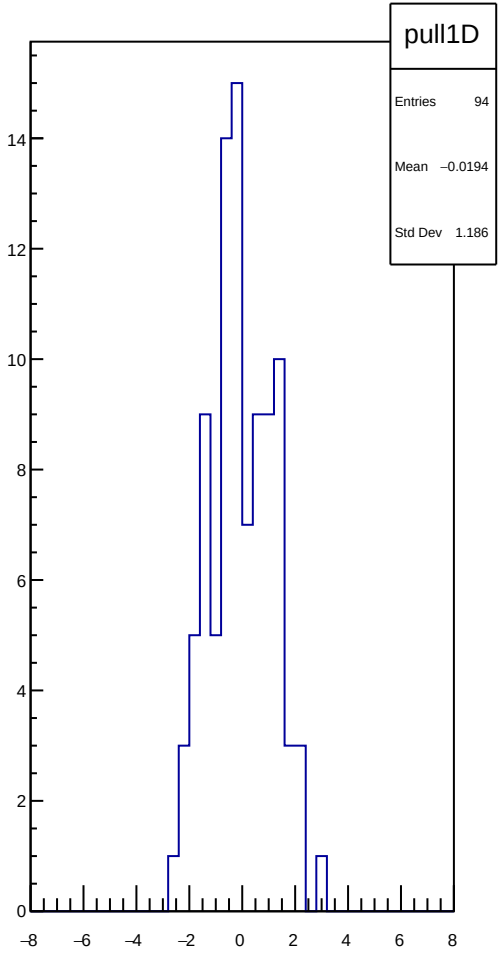

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 5.623e+04 / 93
p0 42.52 ± 0.03254
80
70
60
50
40
30

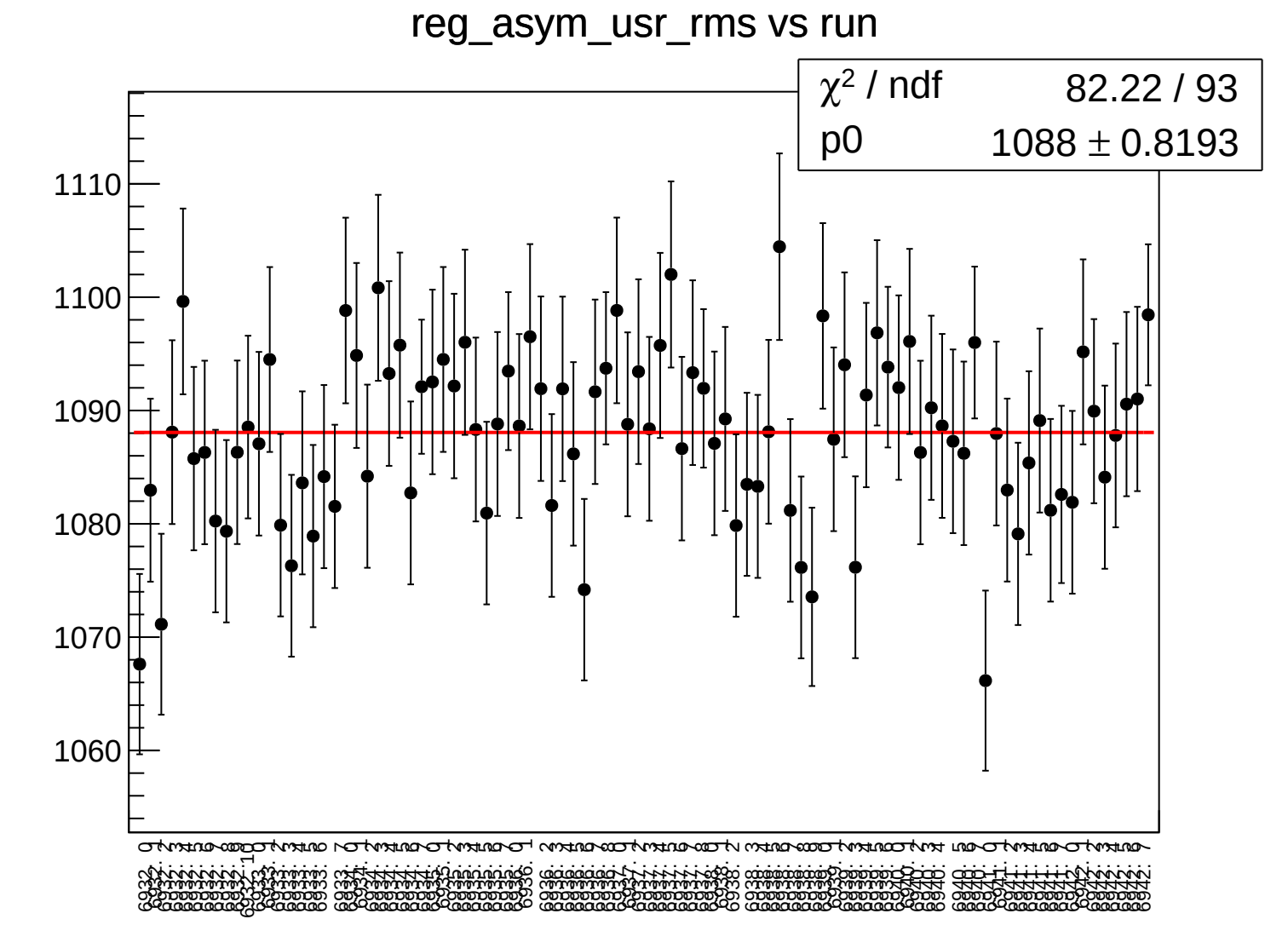

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.58 / 93
p0 −0.0301± 0.04602
pull
Entries 94
Mean −69.96
Std Dev 0

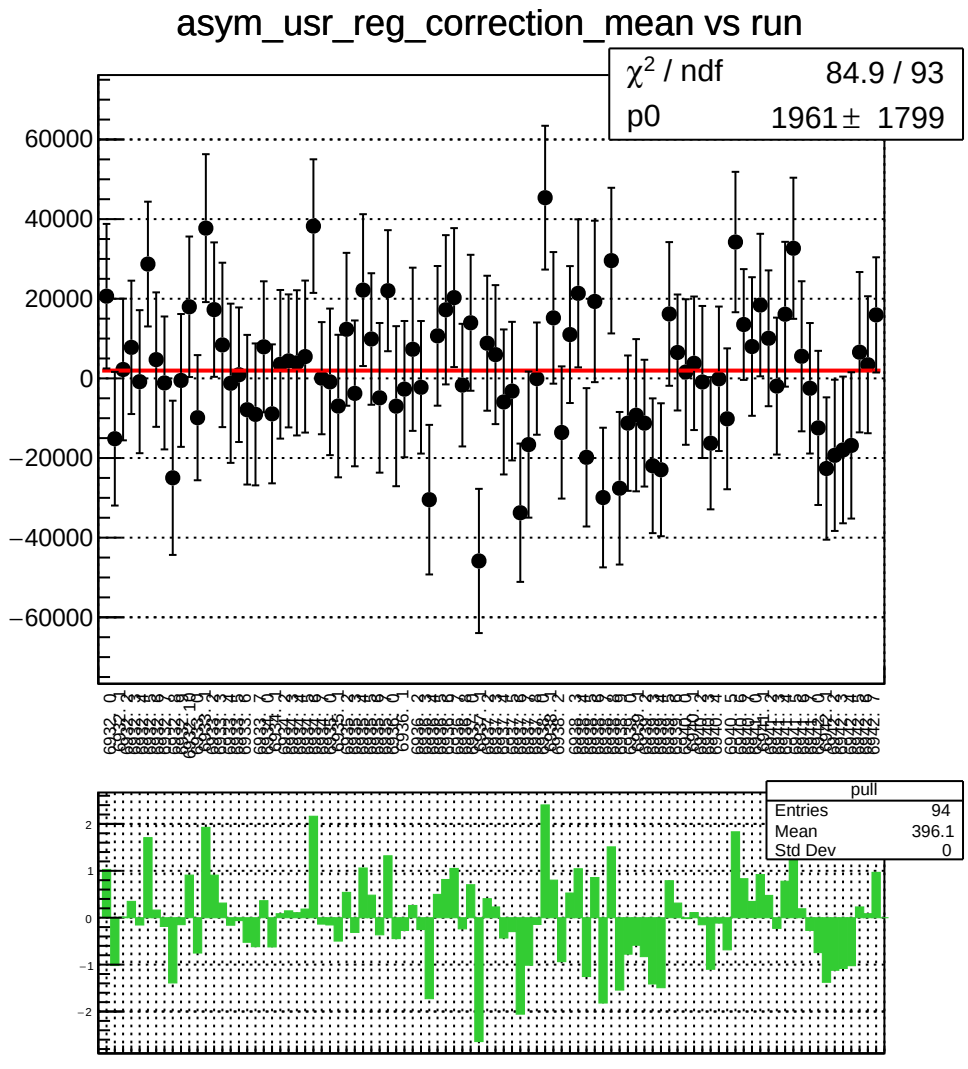

pull1D
Entries 94
Mean 0.01107
Std Dev 0.8786

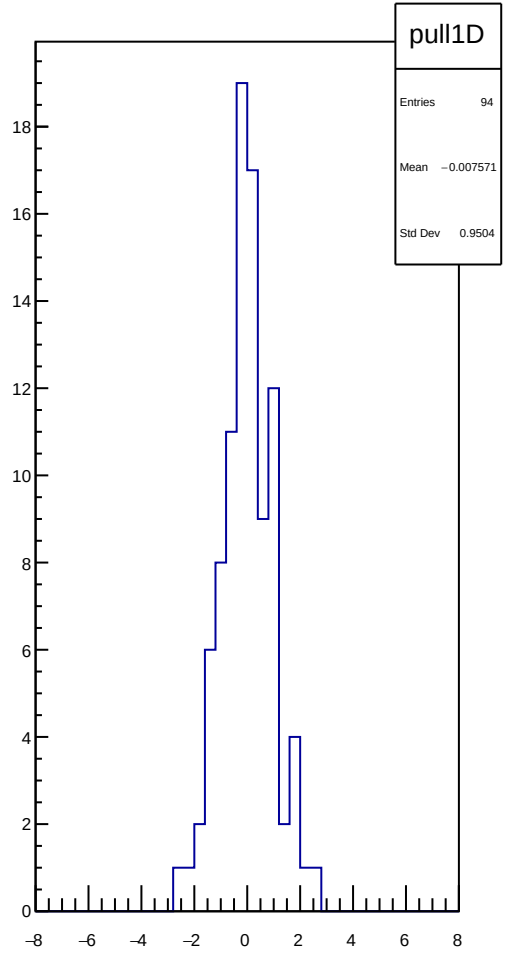

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.623e+04 / 93
p0 42.52 ± 0.03254
80
70
60
50
40
30

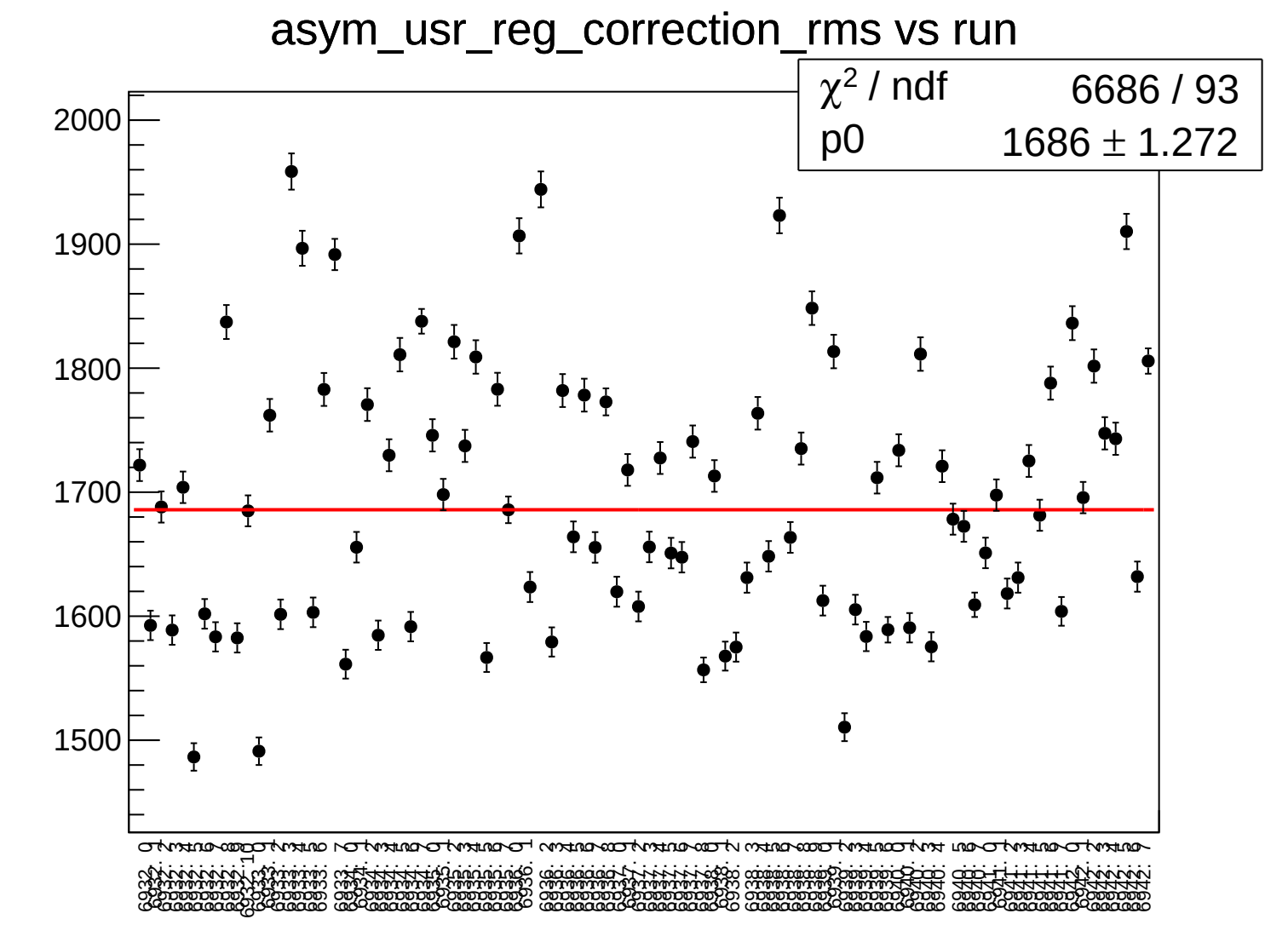

reg_asym_usr_mean vs run
χ² / ndf 132.3 / 93
p0 −1035 ± 1159
pull
Entries 94
Mean −230.2
Std Dev 0

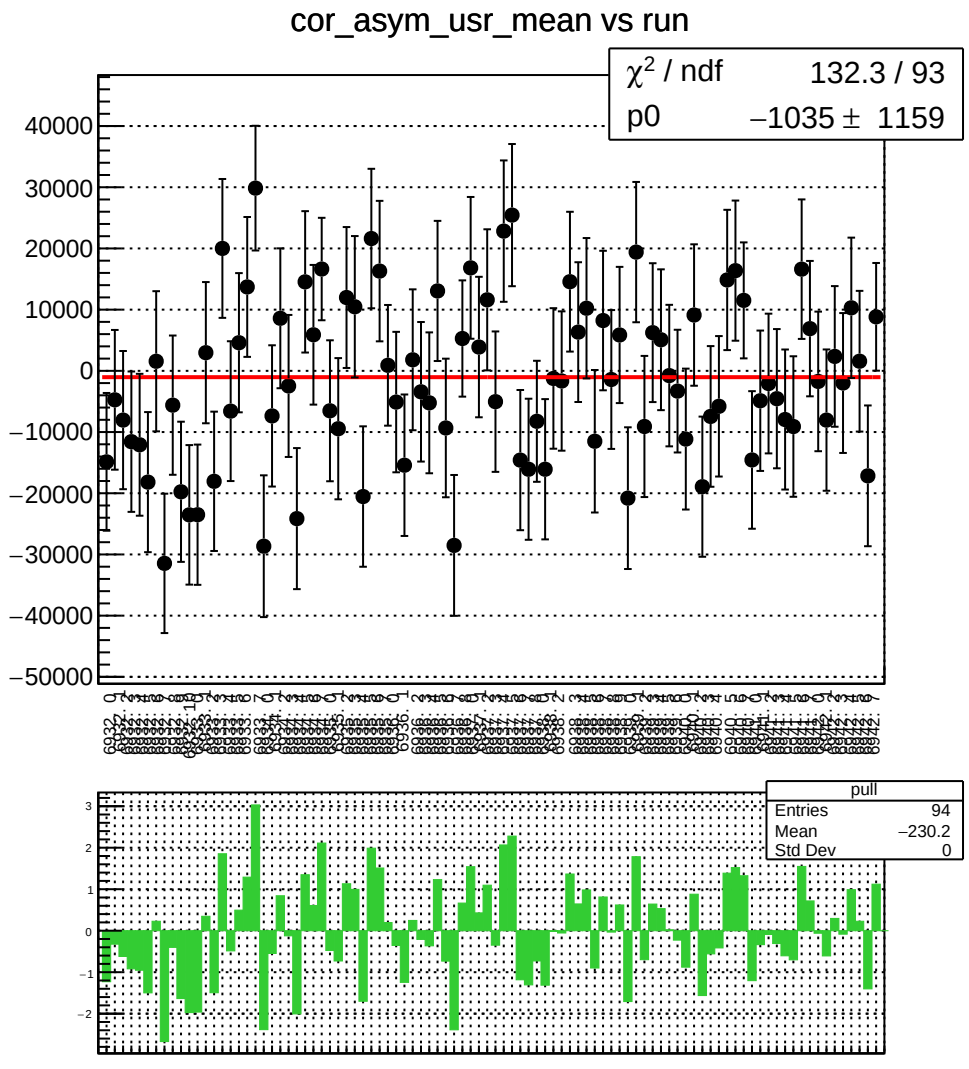

pull1D
Entries 94
Mean −0.0194
Std Dev 1.186

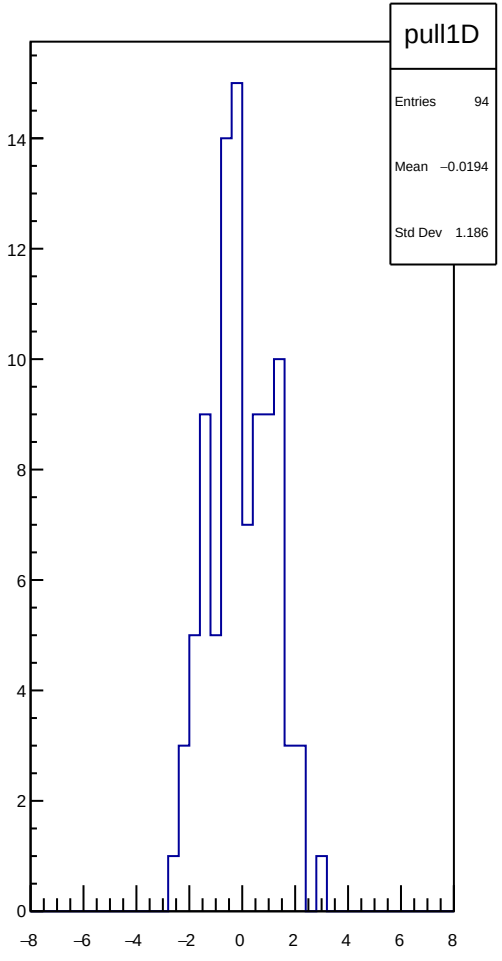

reg_asym_usr_rms vs run
χ² / ndf 82.22 / 93
p0 1088 ± 0.8193
1110
1100
1090
1080
1070
1060

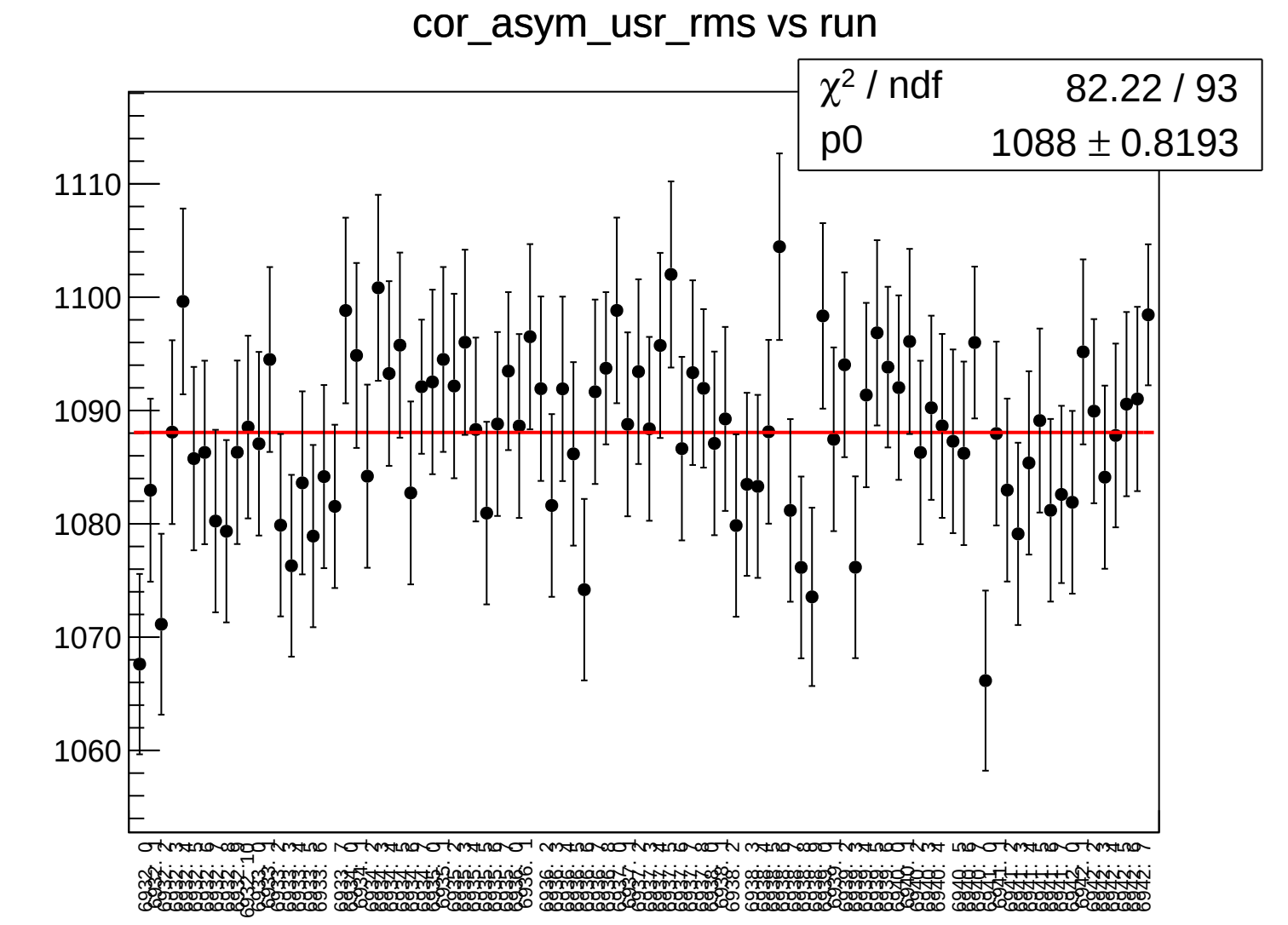

asym_usr_reg_correction_mean vs run
χ² / ndf 84.9 / 93
p0 1961 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 396.1
Std Dev 0
2
1
0
−1
−2

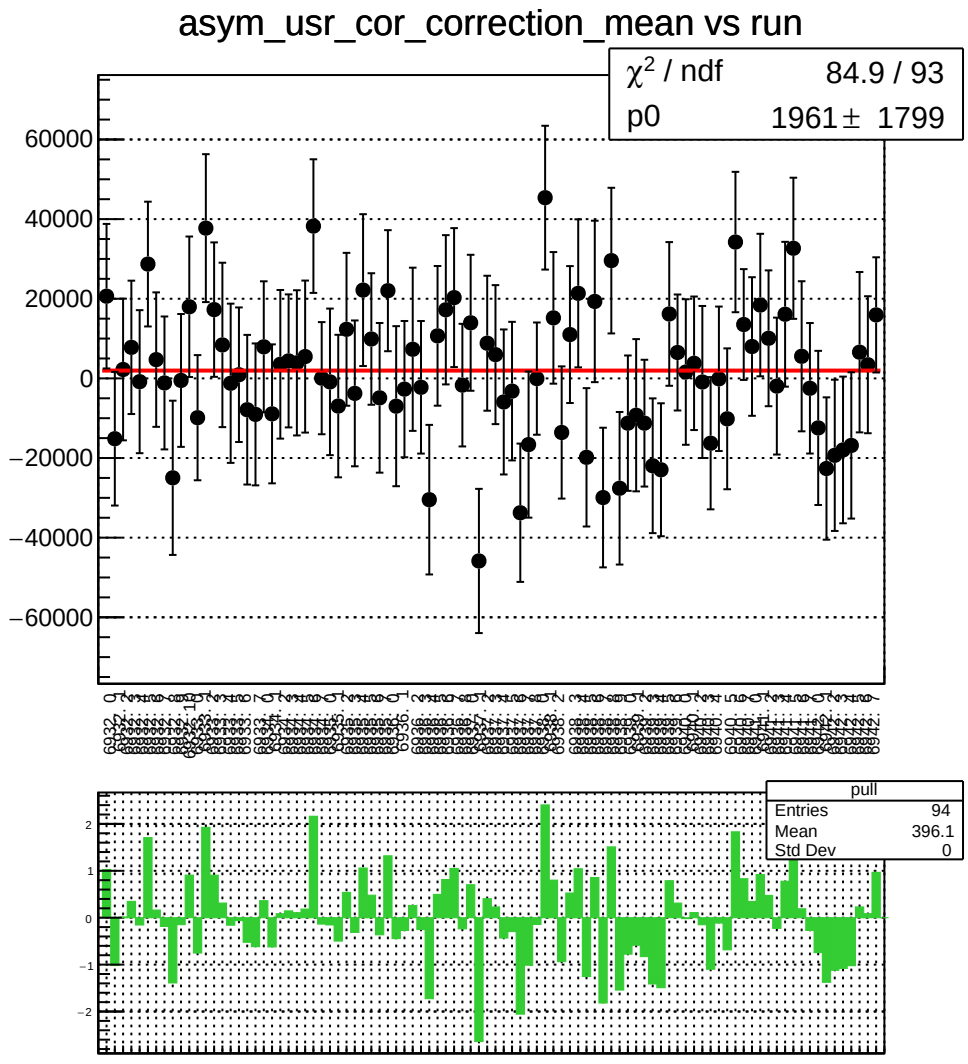

pull1D
Entries 94
Mean −0.007571
Std Dev 0.9504
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

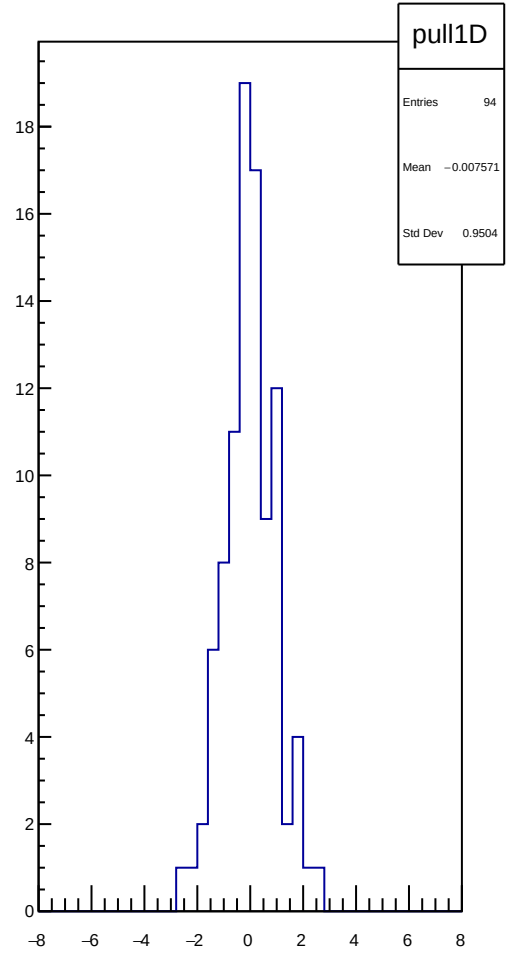

asym_usr_reg_correction_rms vs run
χ² / ndf 6686 / 93
p0 1686 ± 1.272
2000
1900
1800
1700
1600
1500

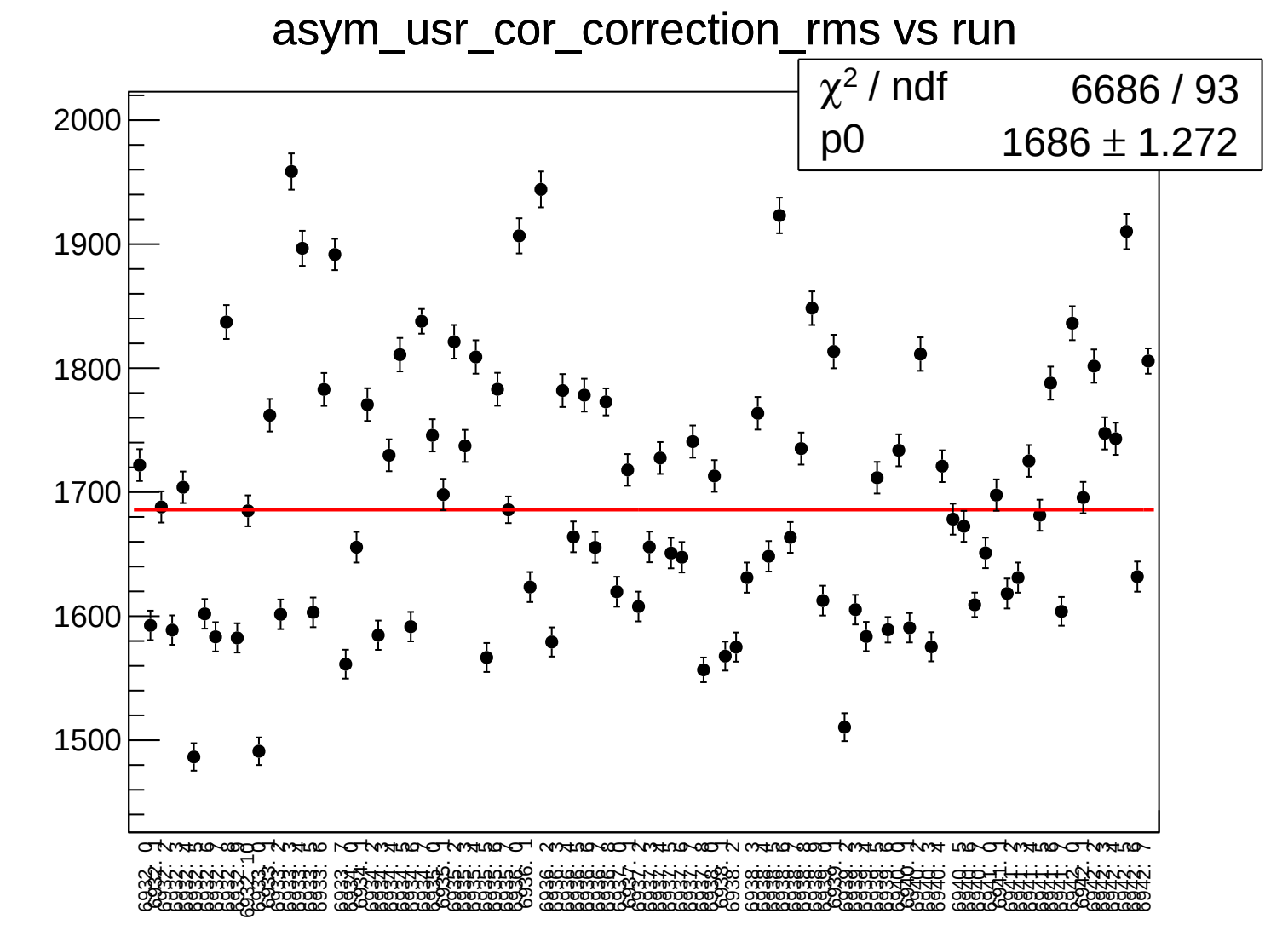

cor_asym_usr_mean vs run
χ² / ndf 132.3 / 93
p0 −1035 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean −230.2
Std Dev 0
3
2
1
0
−1
−2

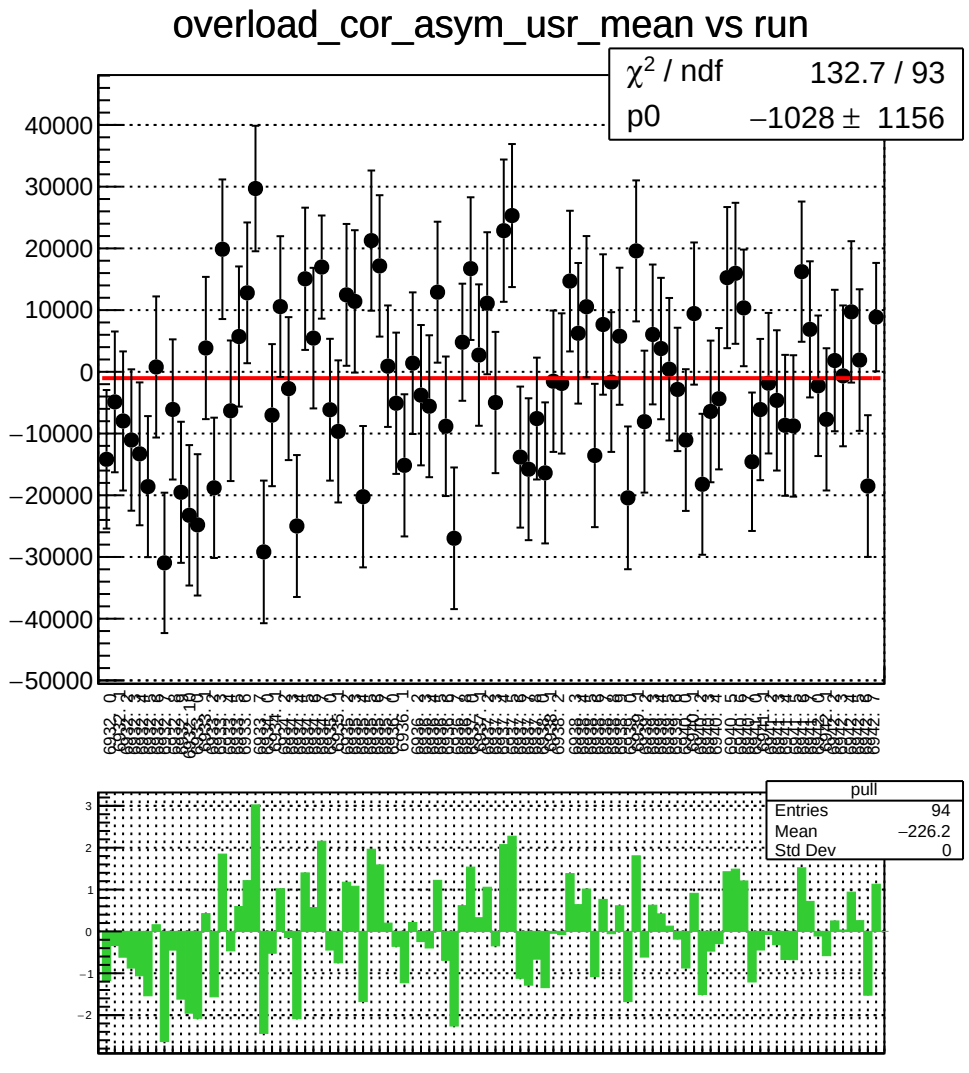

pull1D
Entries 94
Mean −0.0194
Std Dev 1.186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

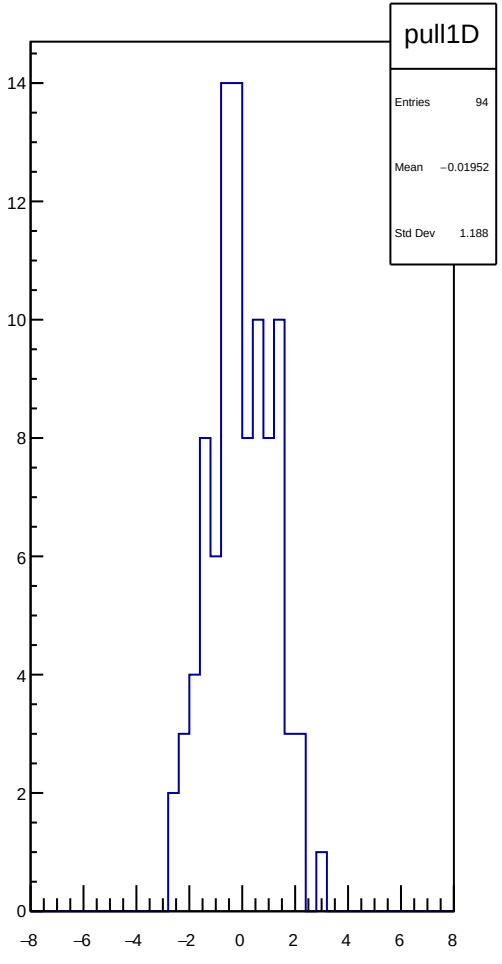

cor_asym_usr_rms vs run
χ² / ndf 82.22 / 93
p0 1088 ± 0.8193
1110
1100
1090
1080
1070
1060

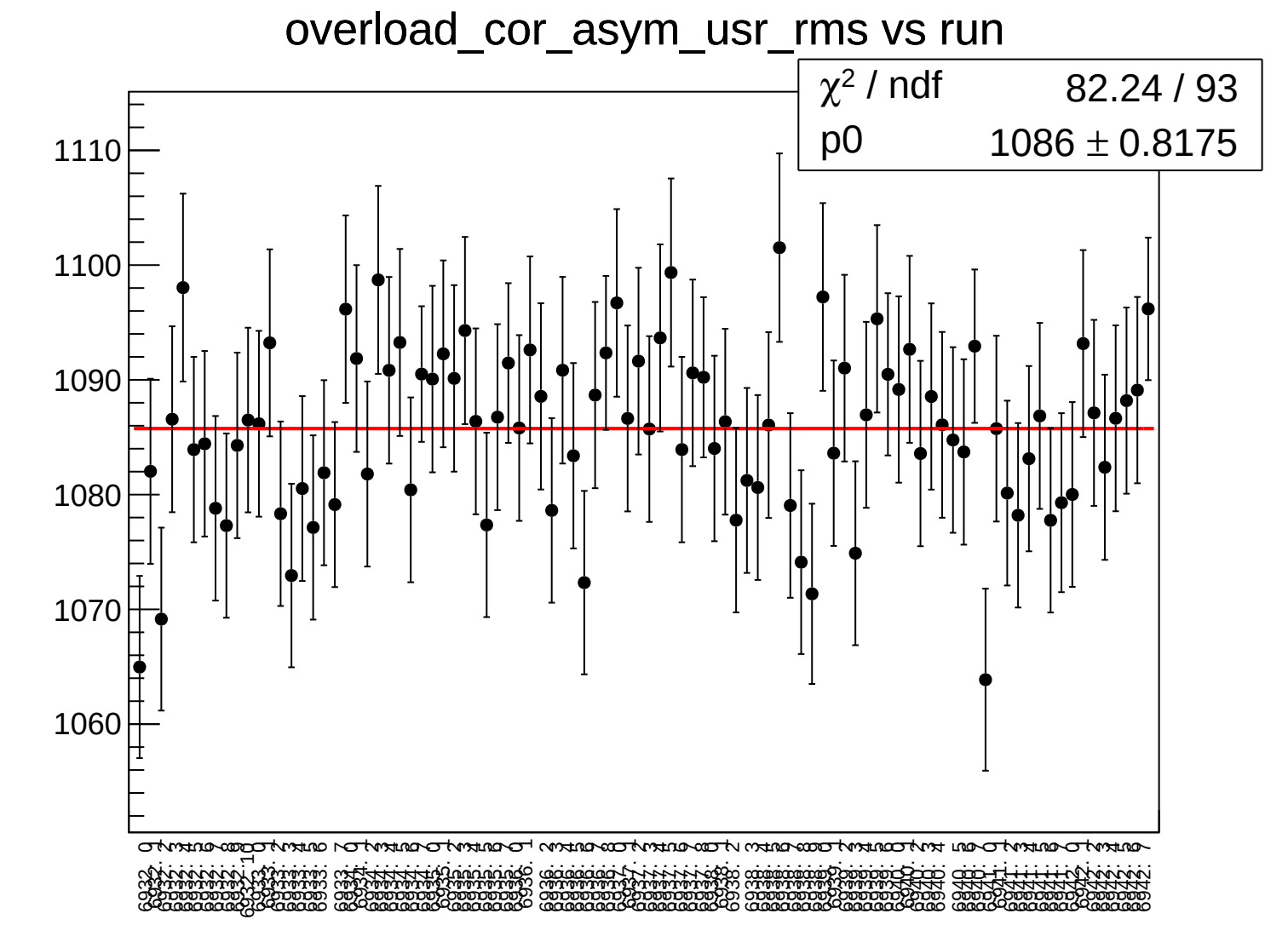

asym_usr_cor_correction_mean vs run
χ² / ndf 84.9 / 93
p0 1961 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 396.1
Std Dev 0
2
1
0
−1
−2

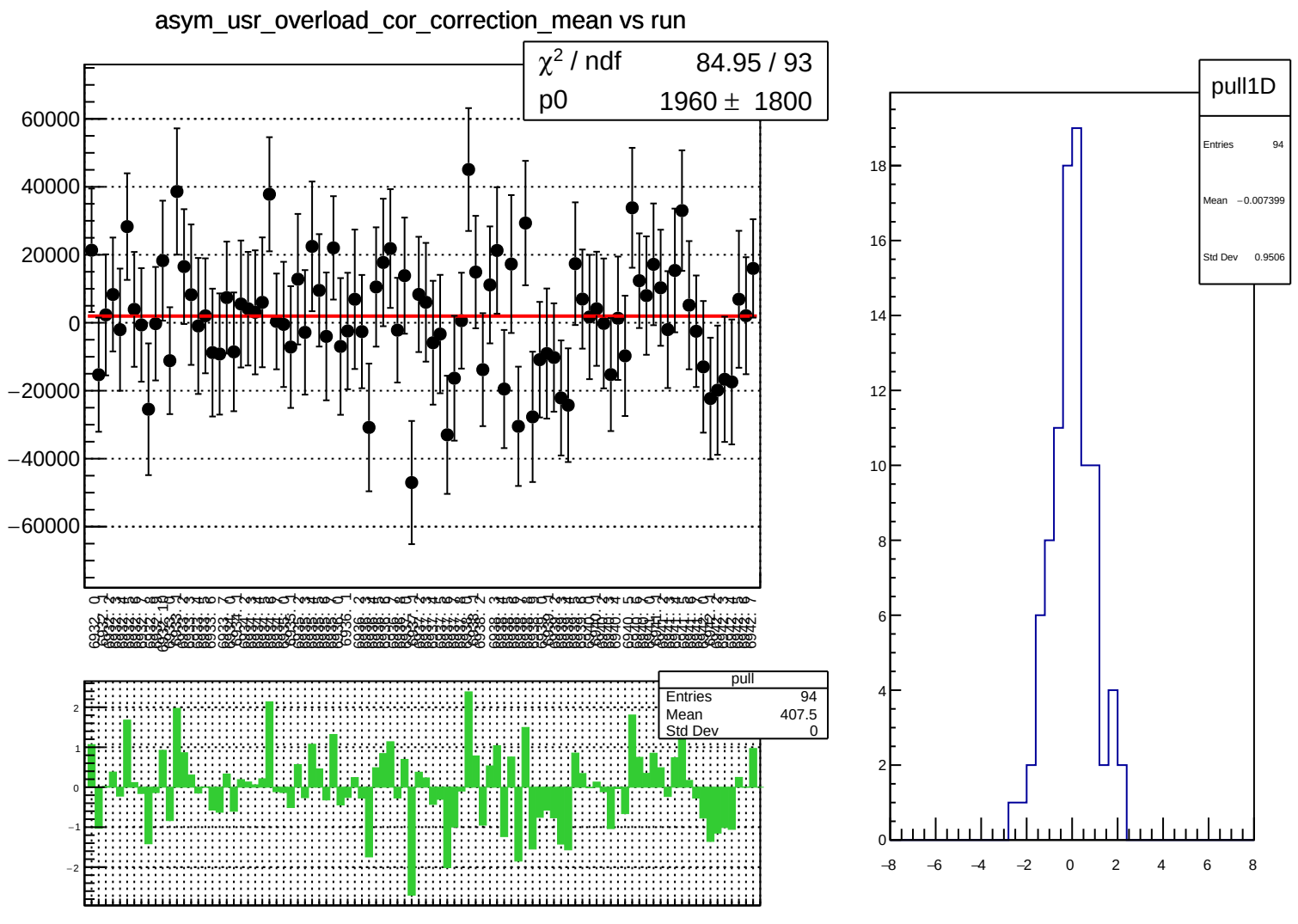

pull1D
Entries 94
Mean −0.007571
Std Dev 0.9504
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

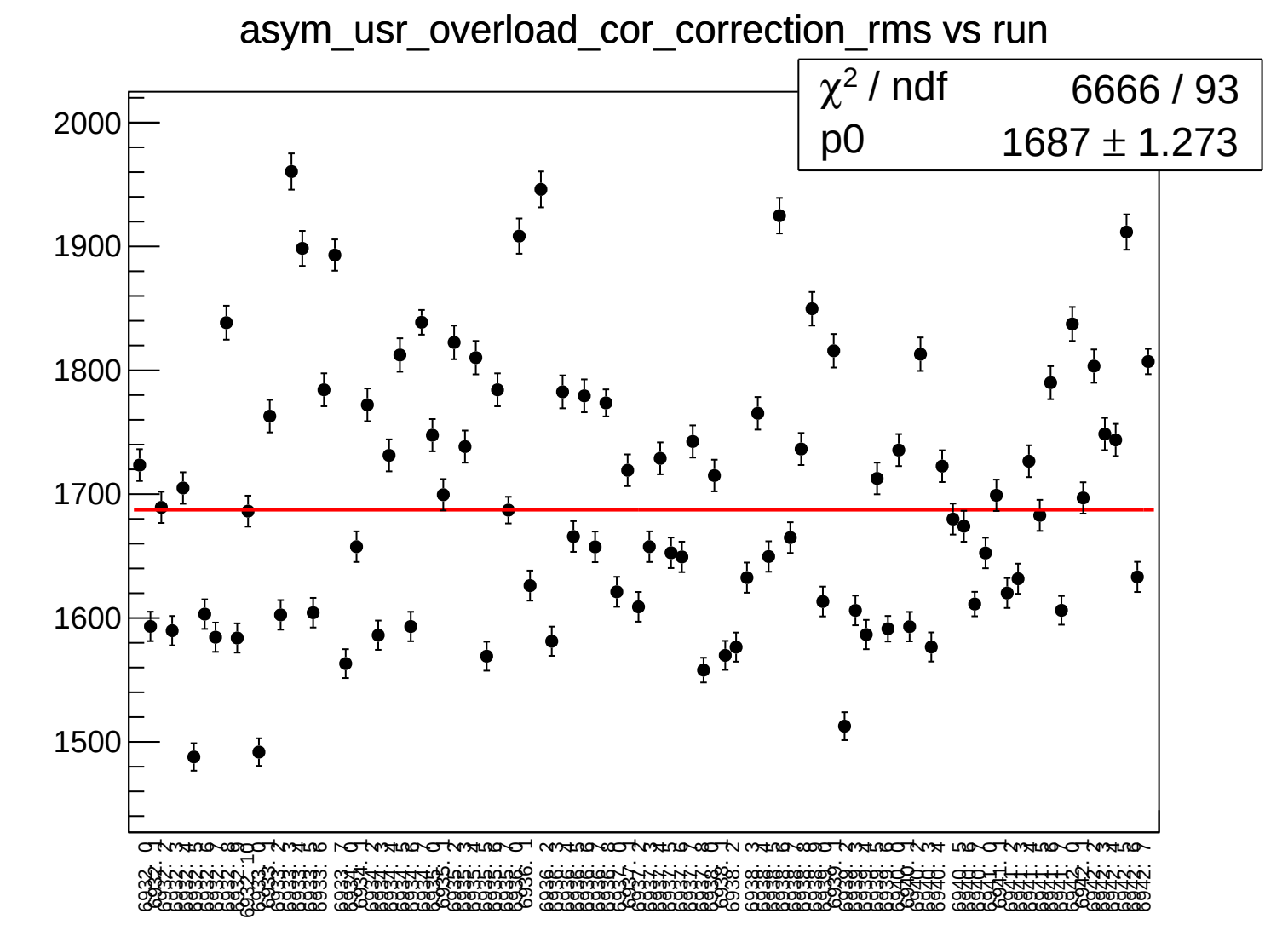

asym_usr_cor_correction_rms vs run
χ² / ndf 6686 / 93
p0 1686 ± 1.272
2000
1900
1800
1700
1600
1500

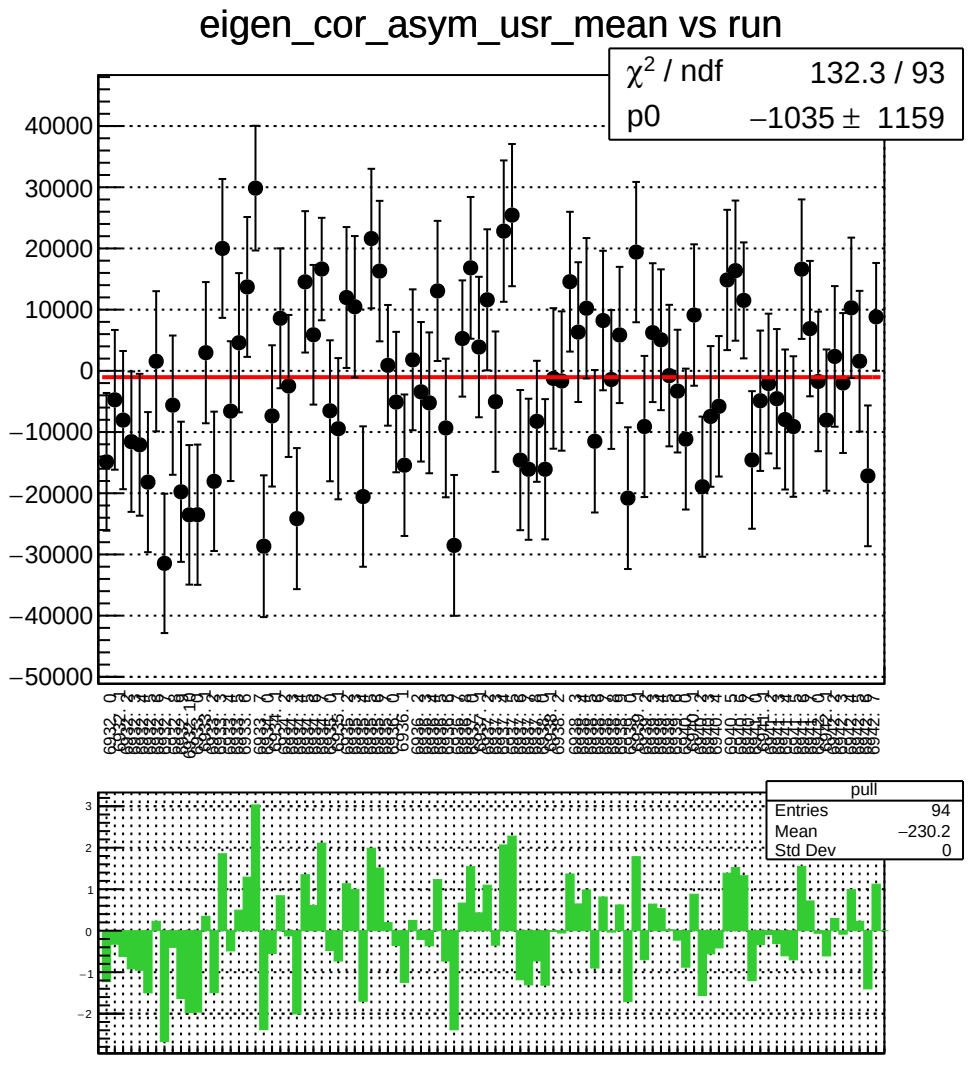

overload_cor_asym_usr_mean vs run
χ² / ndf 132.7 / 93
p0 −1028 ± 1156
pull
Entries 94
Mean −226.2
Std Dev 0

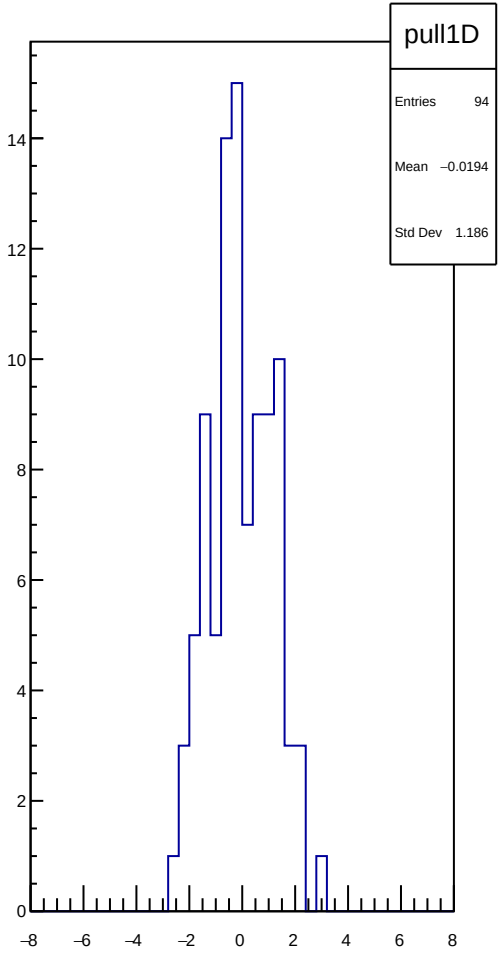

pull1D
Entries 94
Mean −0.01952
Std Dev 1.188

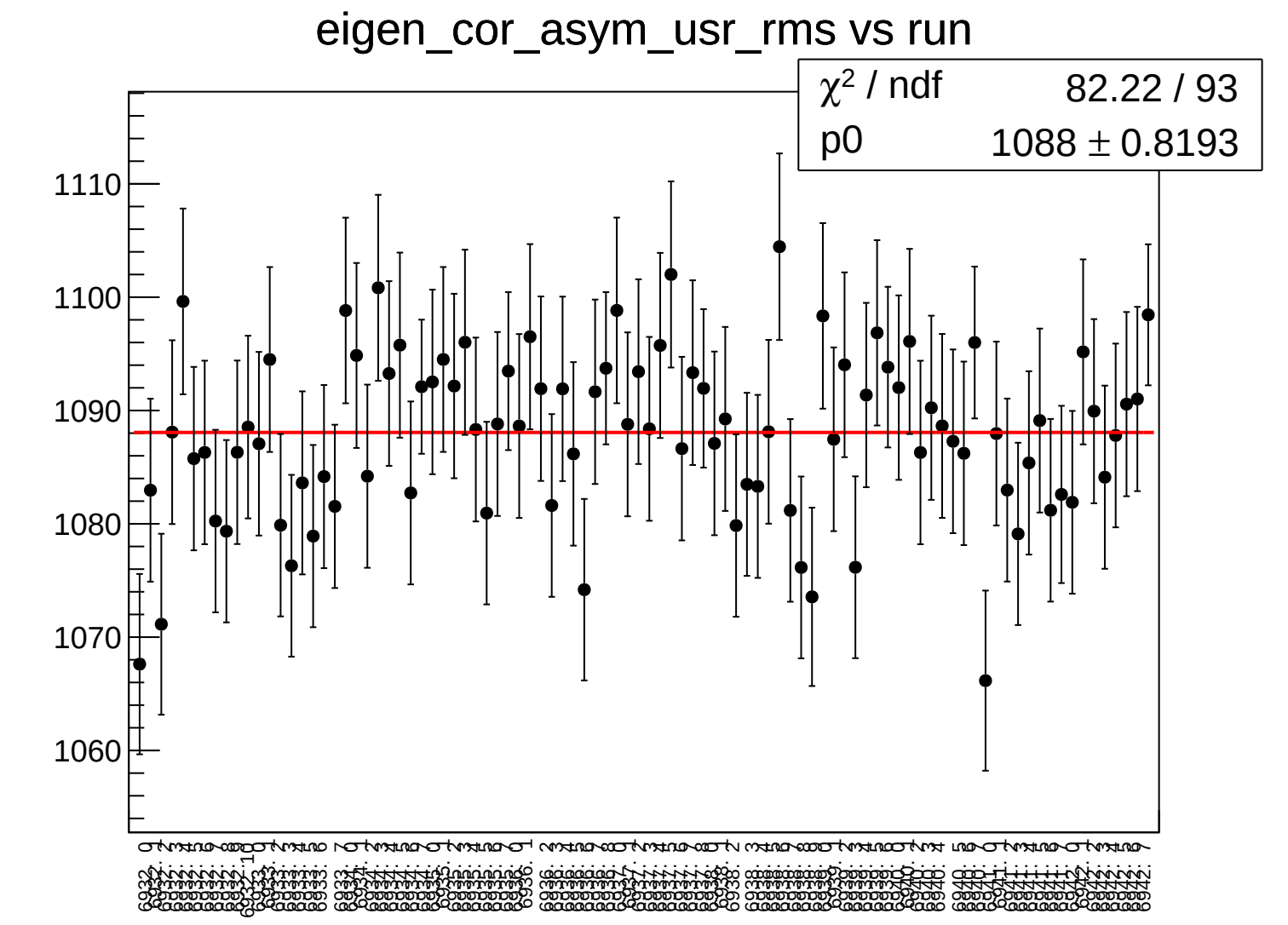

overload_cor_asym_usr_rms vs run
χ² / ndf 82.24 / 93
p0 1086 ± 0.8175
1110
1100
1090
1080
1070
1060

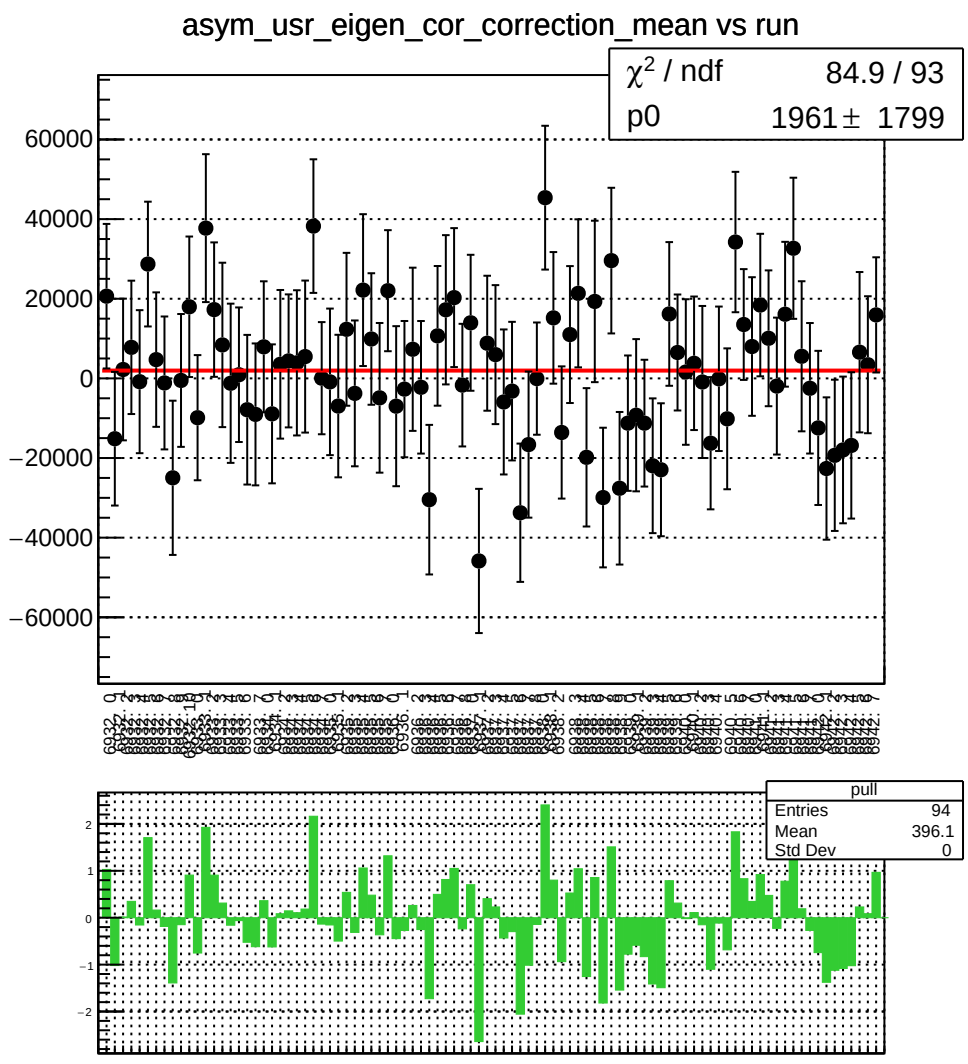

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 84.95 / 93
p0 1960 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 407.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007399
Std Dev 0.9506
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

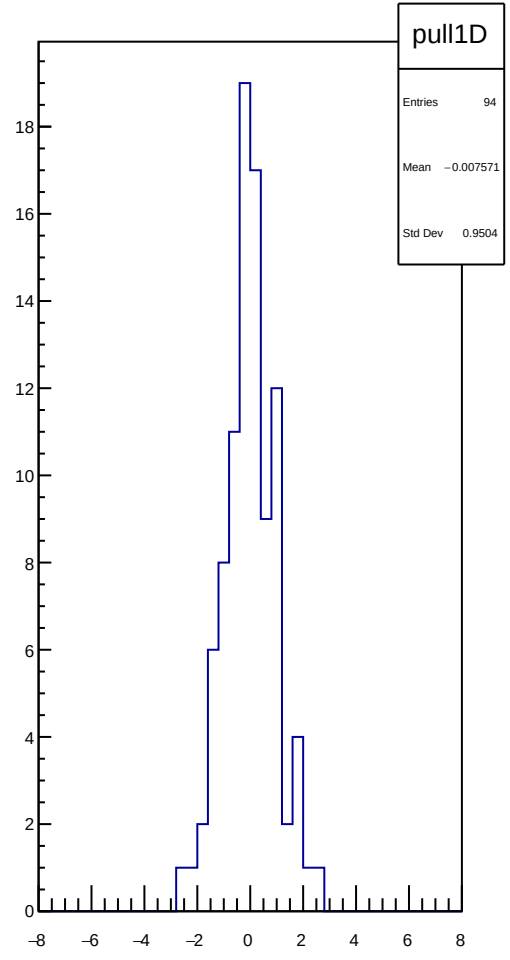

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 6666 / 93
p0 1687 ± 1.273
2000
1900
1800
1700
1600
1500

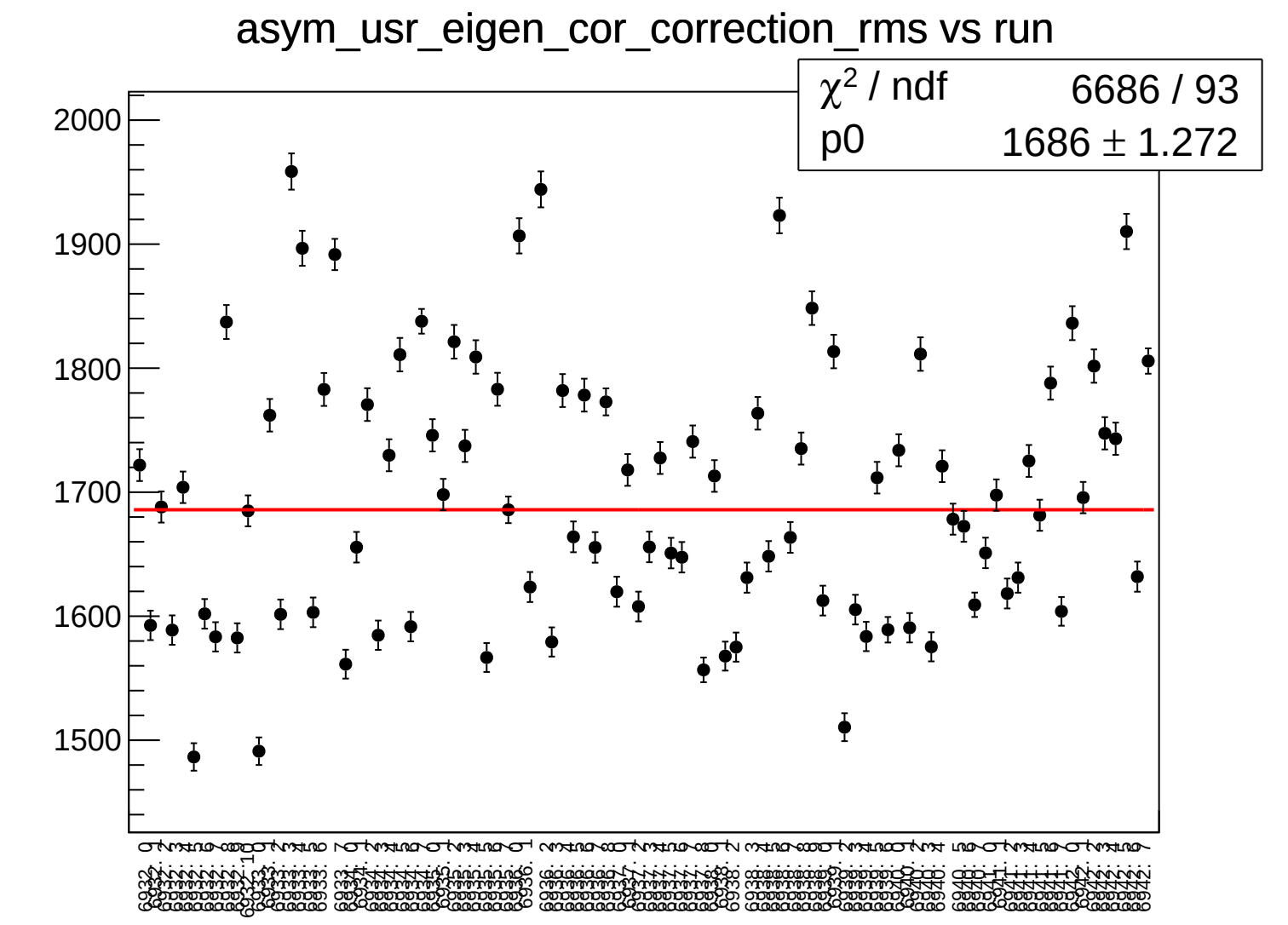

eigen_cor_asym_usr_mean vs run
χ² / ndf 132.3 / 93
p0 −1035 ± 1159
pull
Entries 94
Mean −230.2
Std Dev 0

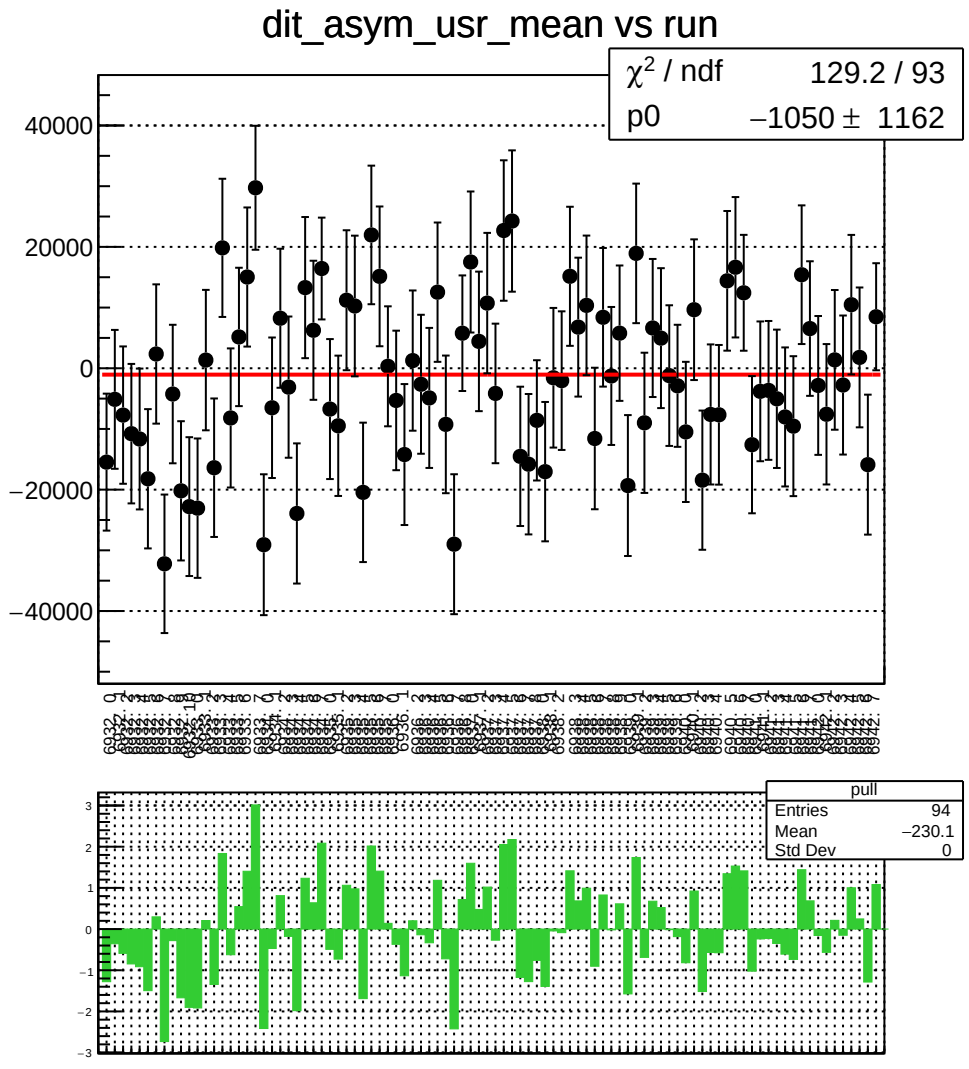

pull1D
Entries 94
Mean −0.0194
Std Dev 1.186

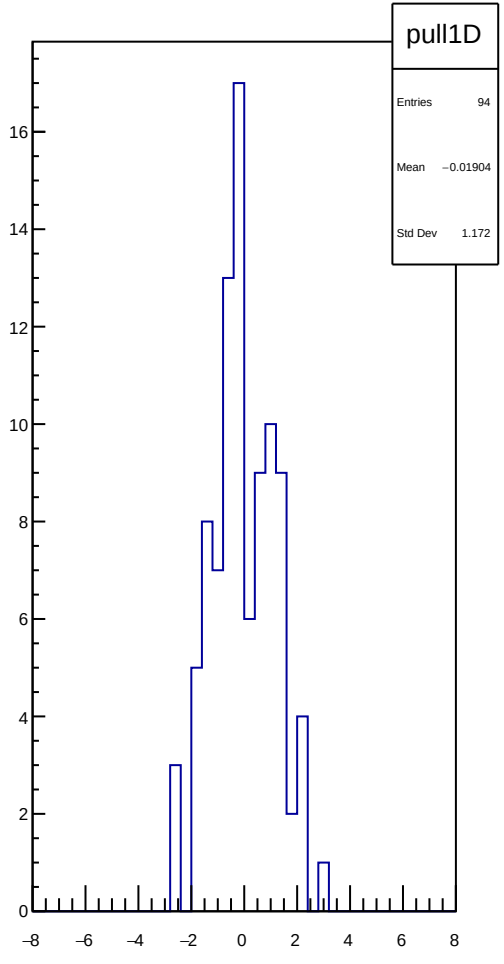

eigen_cor_asym_usr_rms vs run
χ² / ndf 82.22 / 93
p0 1088 ± 0.8193
1110
1100
1090
1080
1070
1060

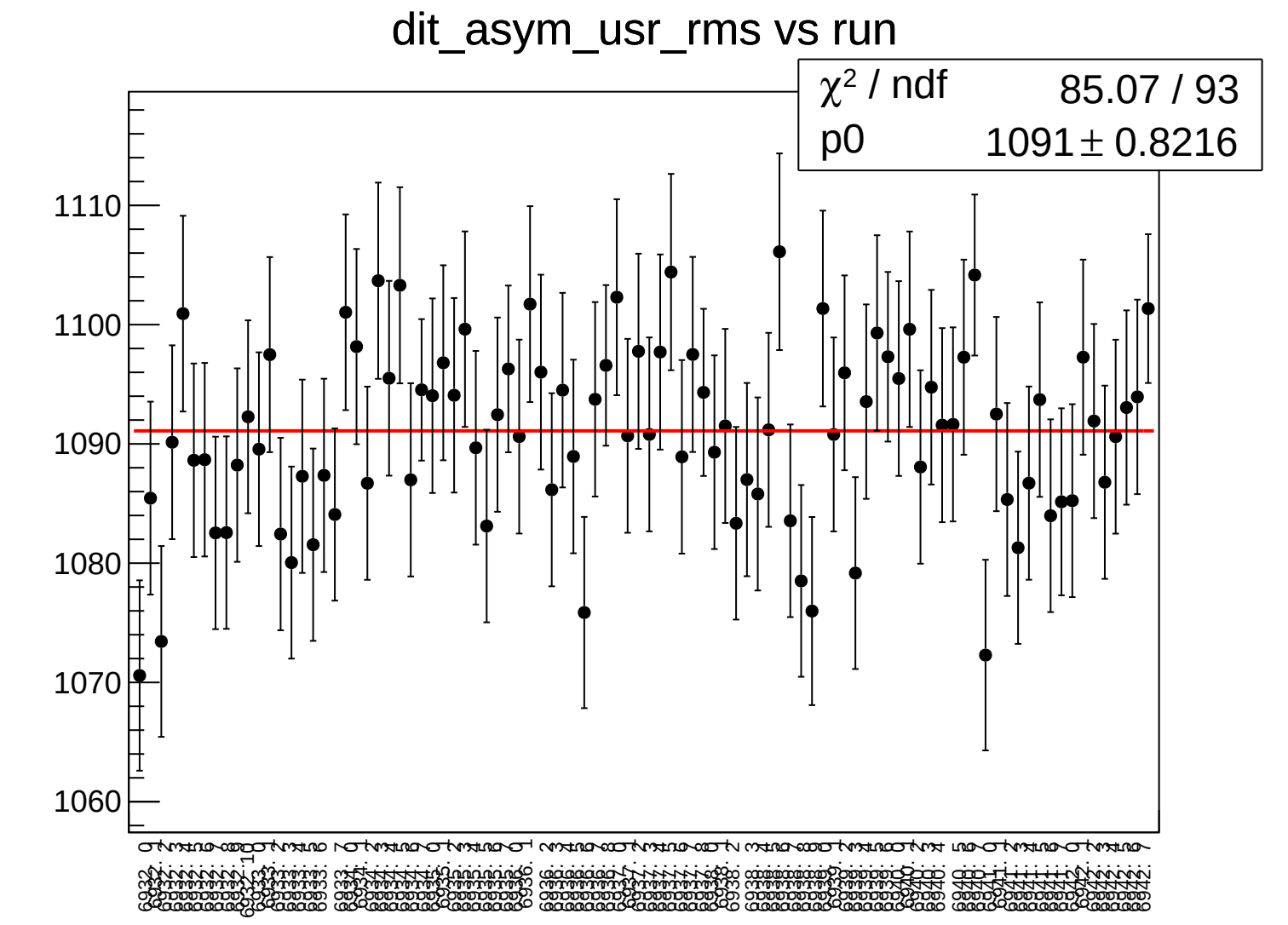

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 84.9 / 93
p0 1961 ± 1799
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 396.1
Std Dev 0
2
1
0
−1
−2

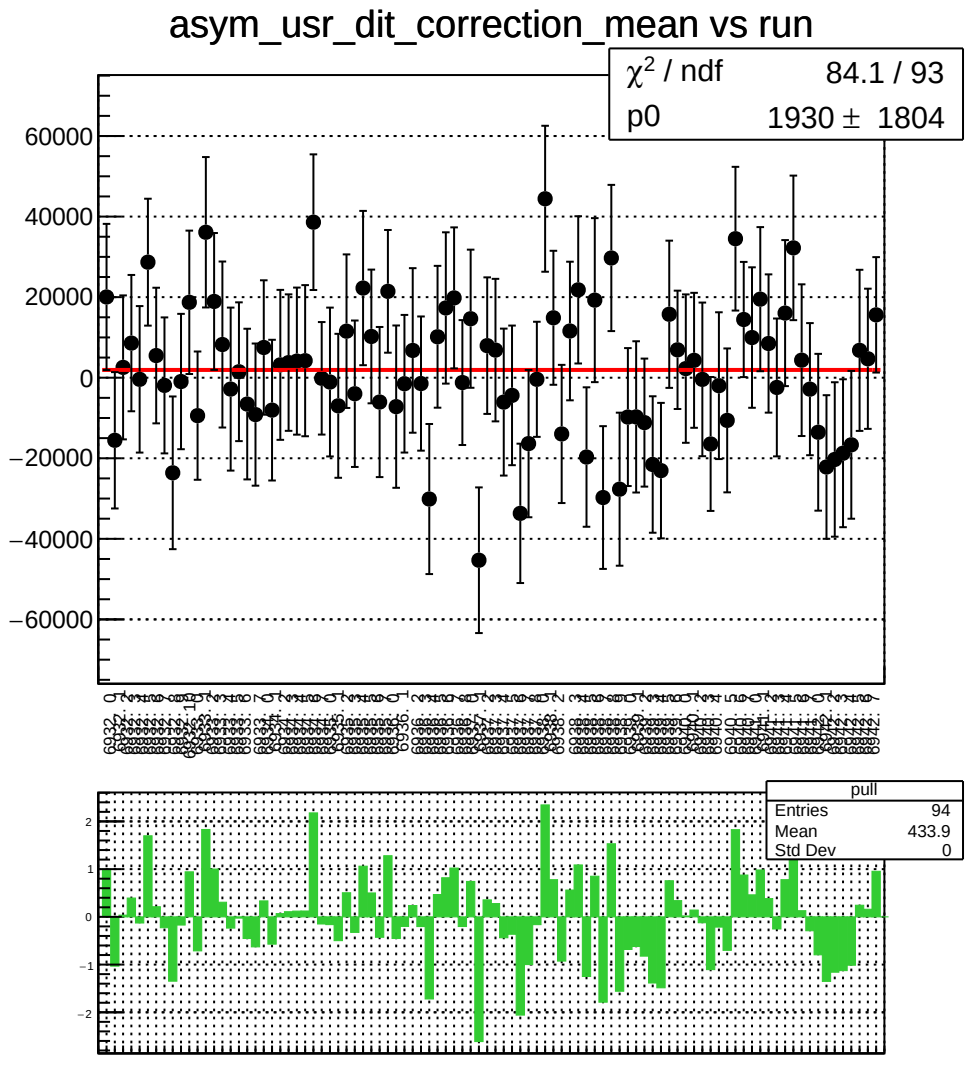

pull1D
Entries 94
Mean −0.007571
Std Dev 0.9504
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

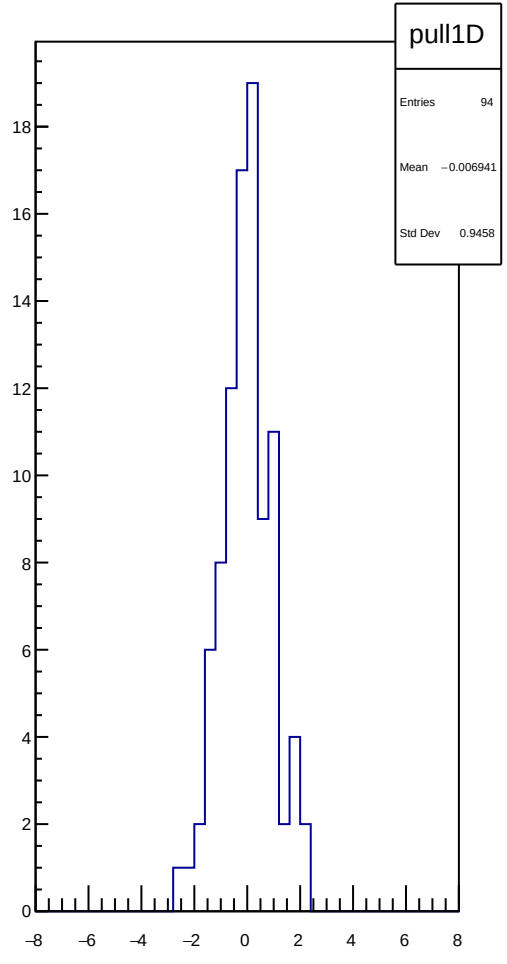

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 6686 / 93
p0 1686 ± 1.272
2000
1900
1800
1700
1600
1500

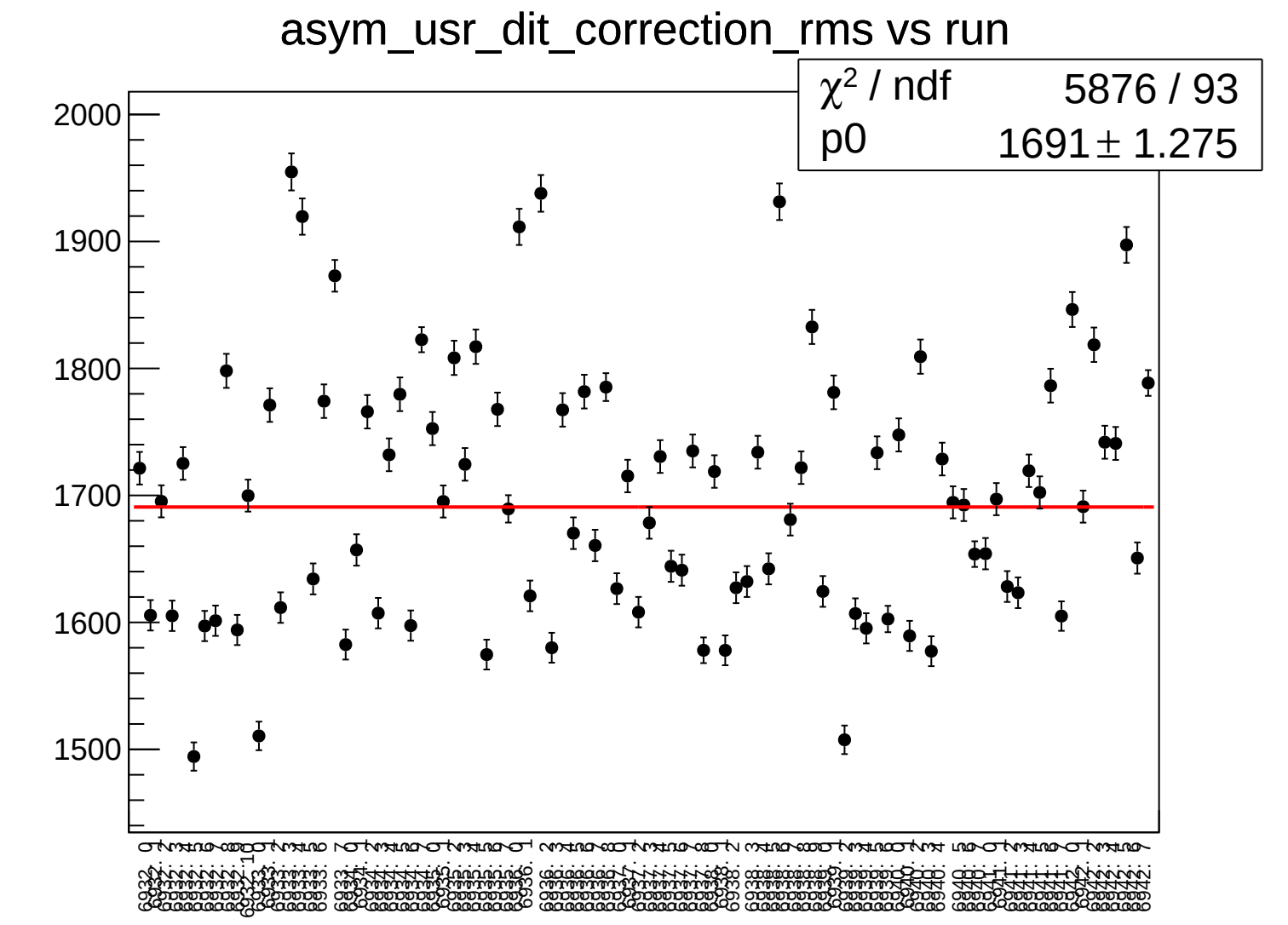

dit_asym_usr_mean vs run
χ² / ndf 129.2 / 93
p0 −1050 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −230.1
Std Dev 0
3
2
1
0
−1
−2
−3

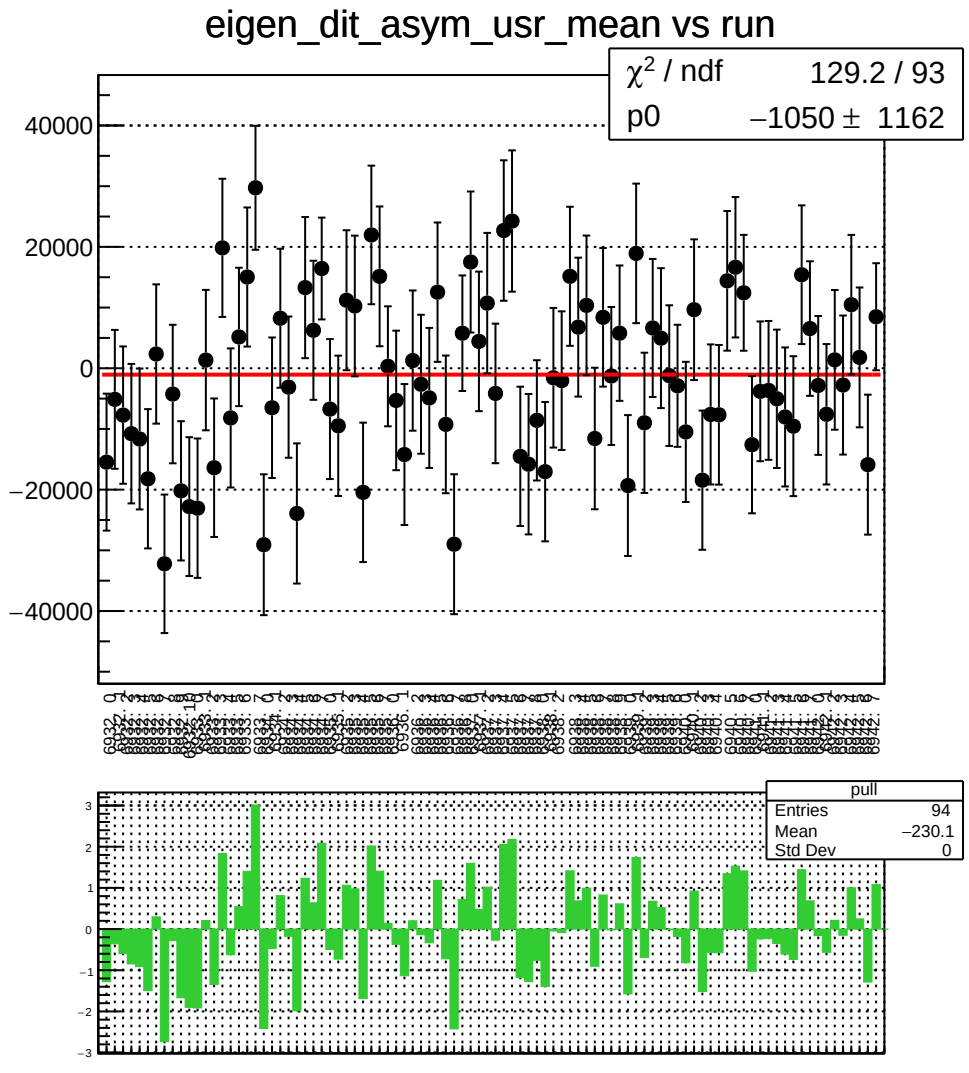

pull1D
Entries 94
Mean −0.01904
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

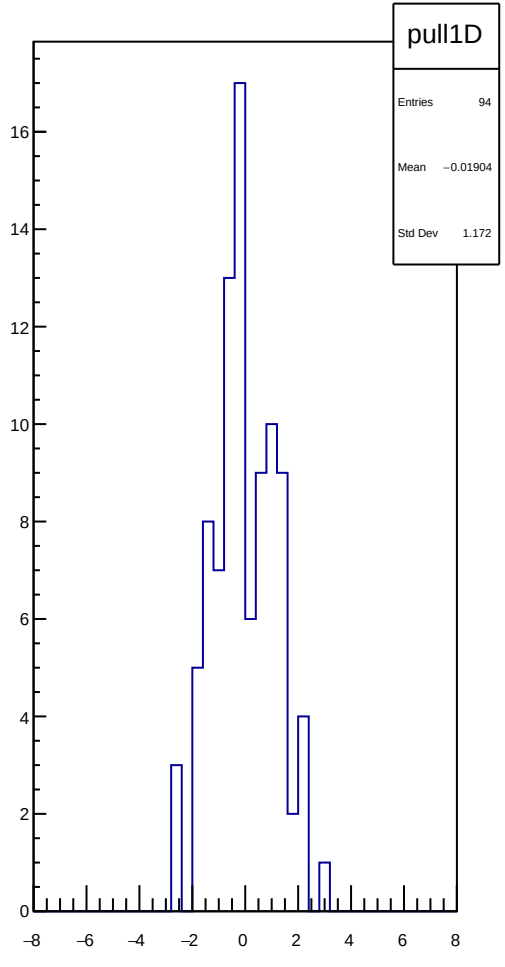

dit_asym_usr_rms vs run
χ² / ndf 85.07 / 93
p0 1091 ± 0.8216
1110
1100
1090
1080
1070
1060

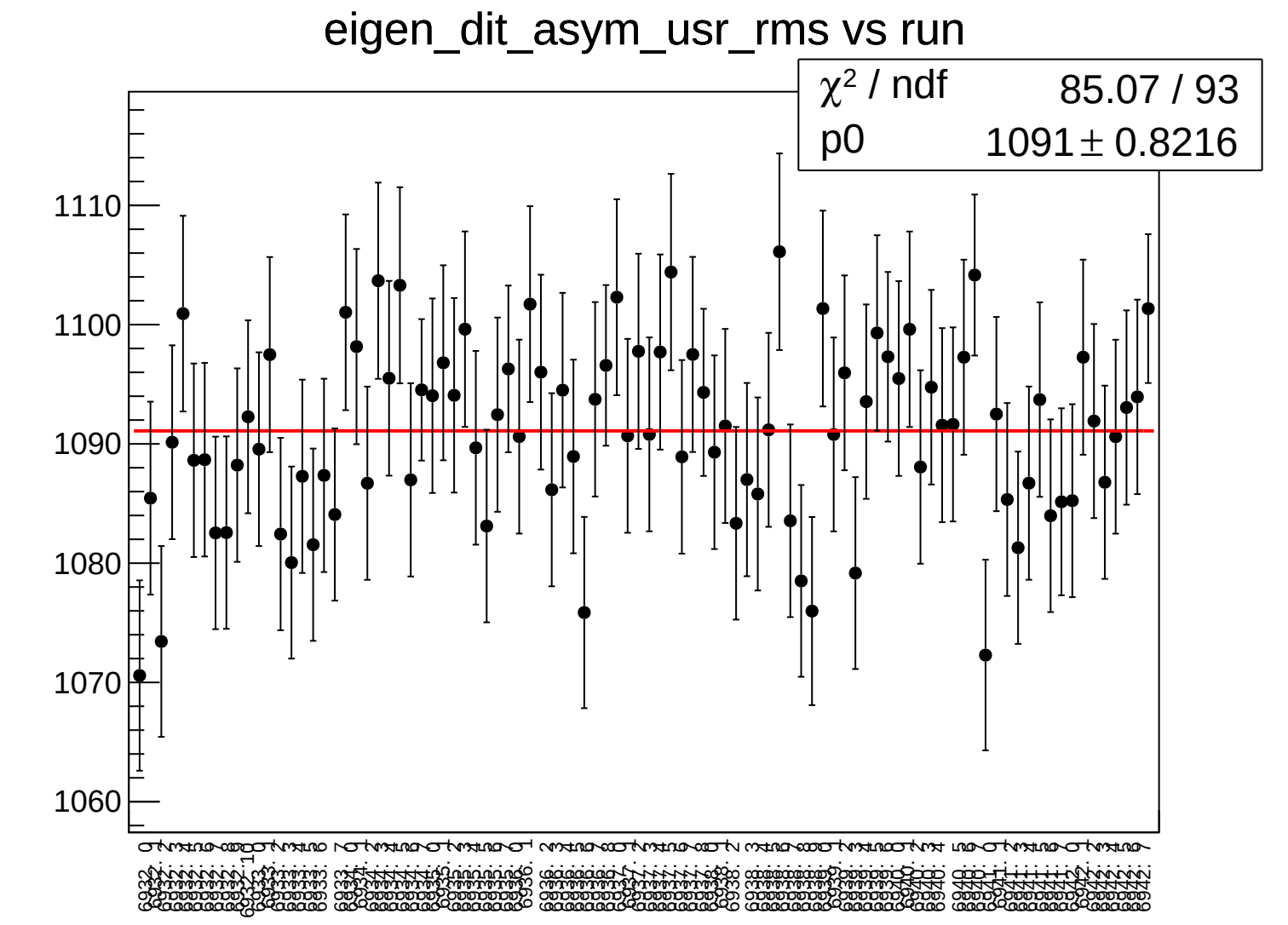

asym_usr_dit_correction_mean vs run
χ² / ndf 84.1 / 93
p0 1930 ± 1804
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 433.9
Std Dev 0
2
1
0
−1
−2

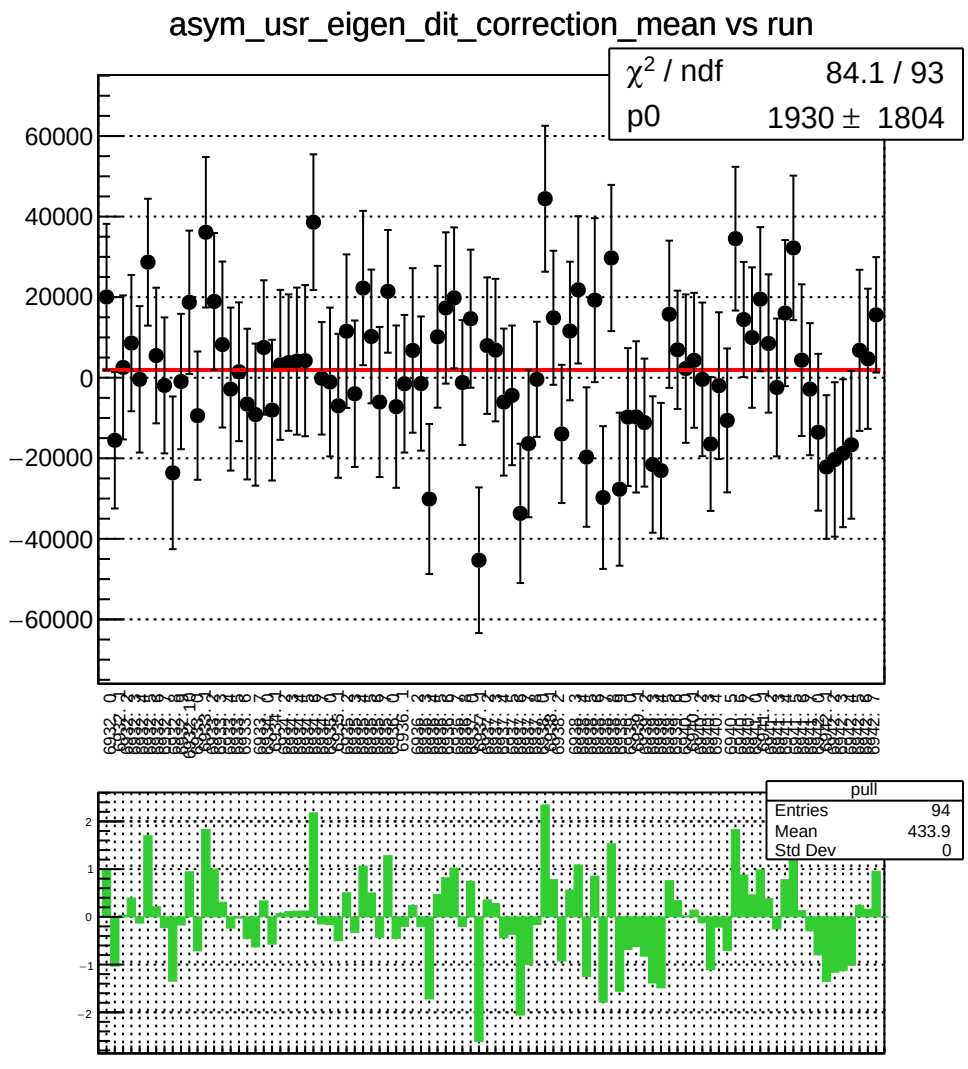

pull1D
Entries 94
Mean −0.006941
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

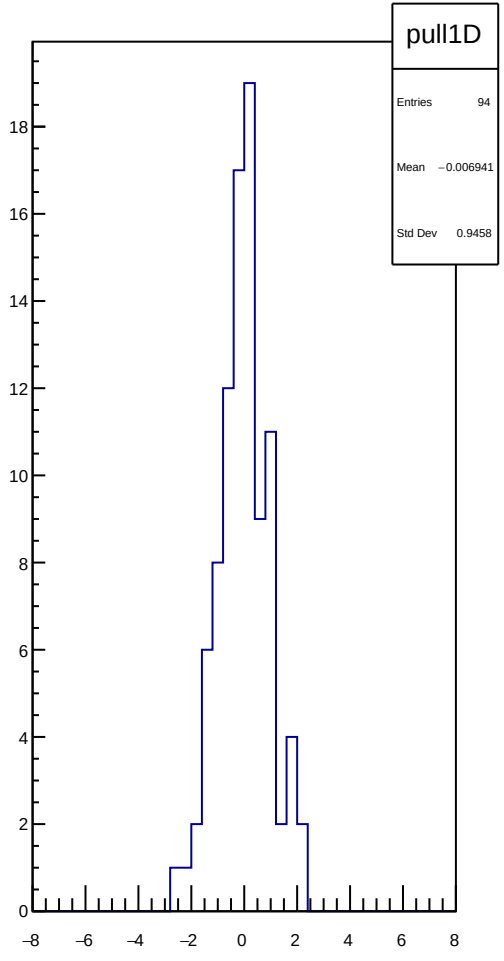

asym_usr_dit_correction_rms vs run
χ² / ndf 5876 / 93
p0 1691 ± 1.275
2000
1900
1800
1700
1600
1500

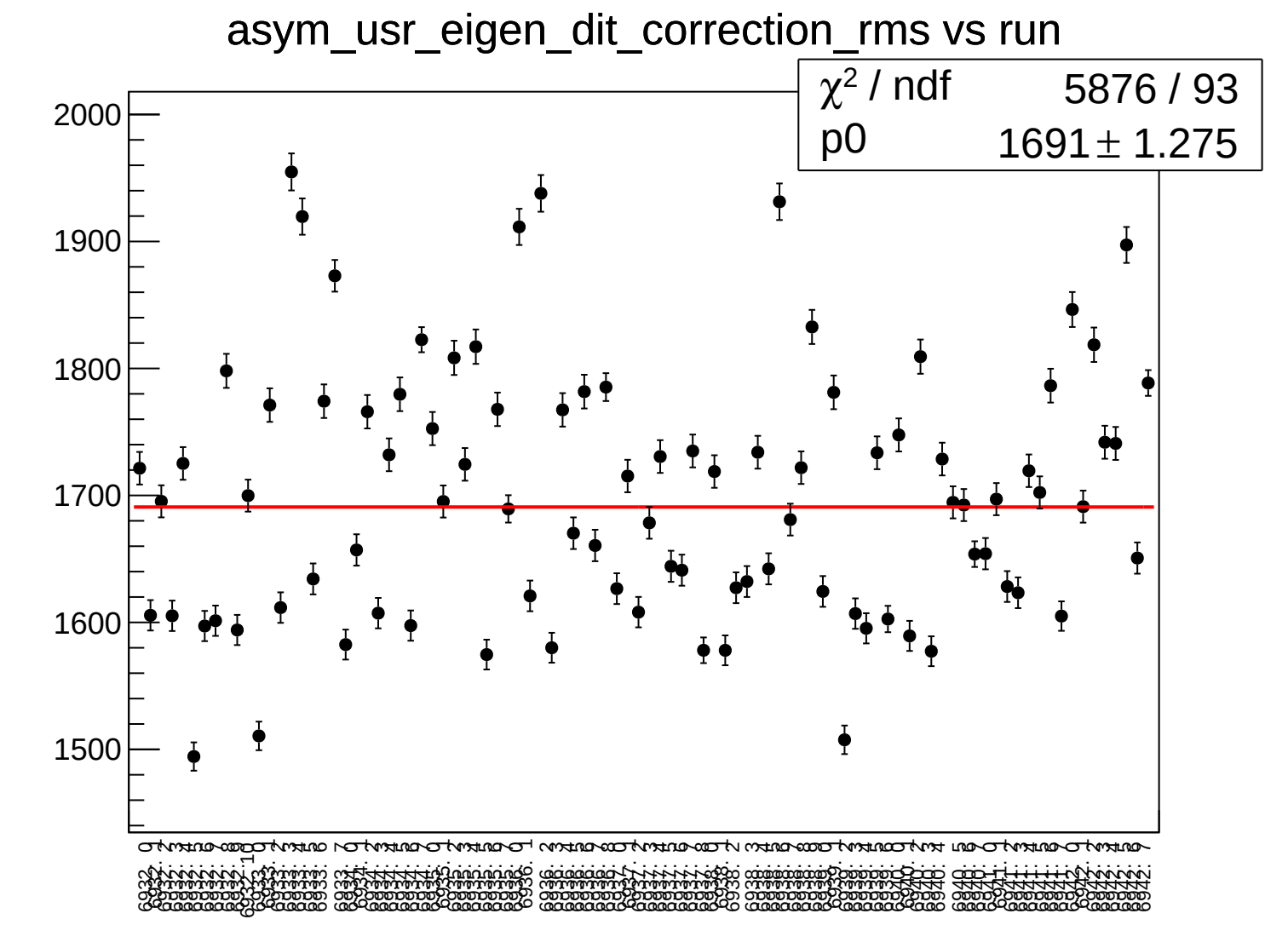

eigen_dit_asym_usr_mean vs run
χ² / ndf 129.2 / 93
p0 −1050 ± 1162
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −230.1
Std Dev 0
3
2
1
0
−1
−2
−3

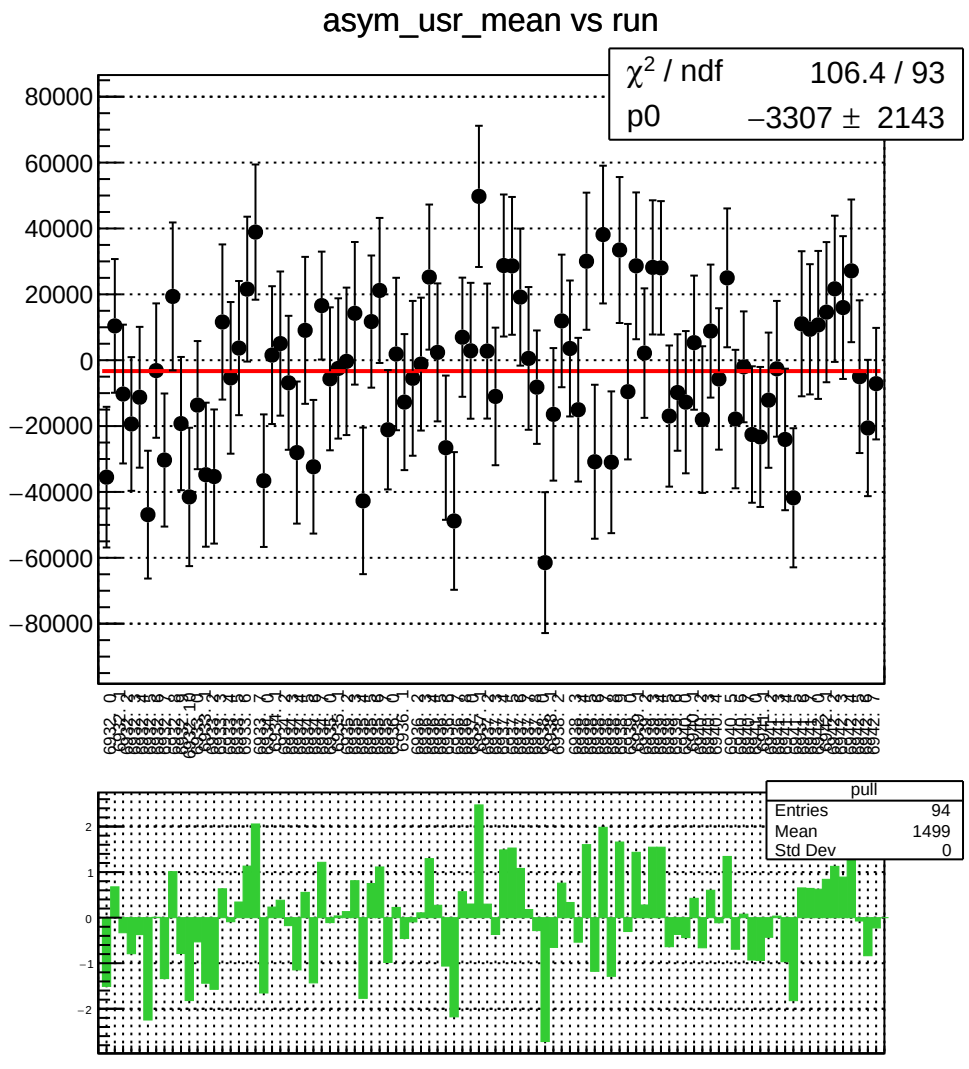

pull1D
Entries 94
Mean −0.01904
Std Dev 1.172
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

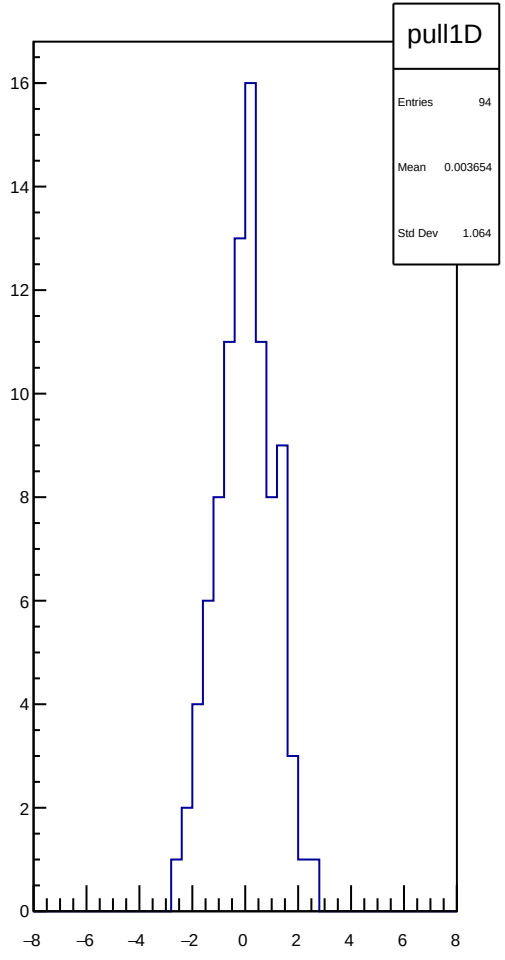

eigen_dit_asym_usr_rms vs run
χ² / ndf 85.07 / 93
p0 1091 ± 0.8216
1110
1100
1090
1080
1070
1060

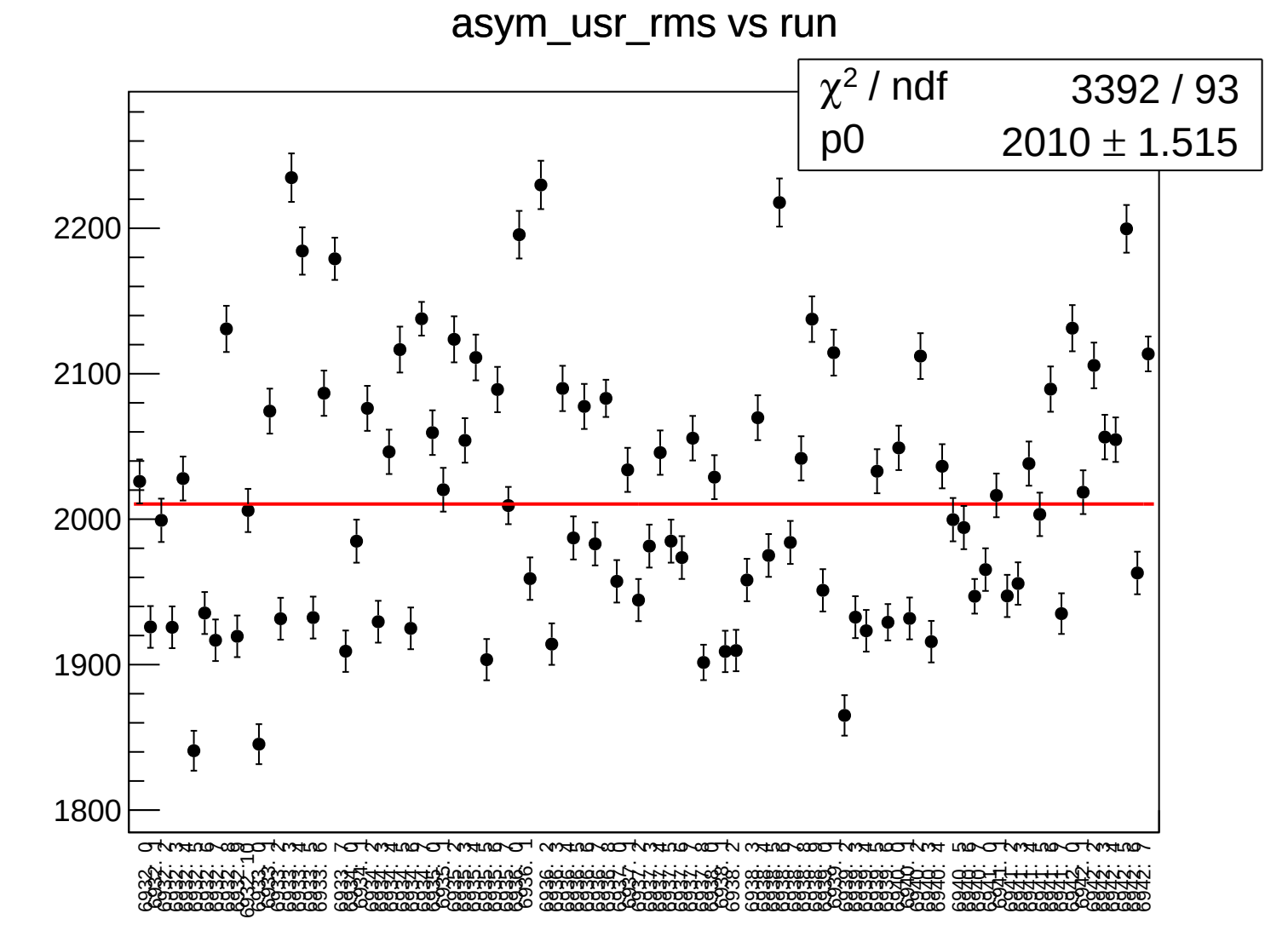

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 84.1 / 93
p0 1930 ± 1804
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 433.9
Std Dev 0
2
1
0
−1
−2

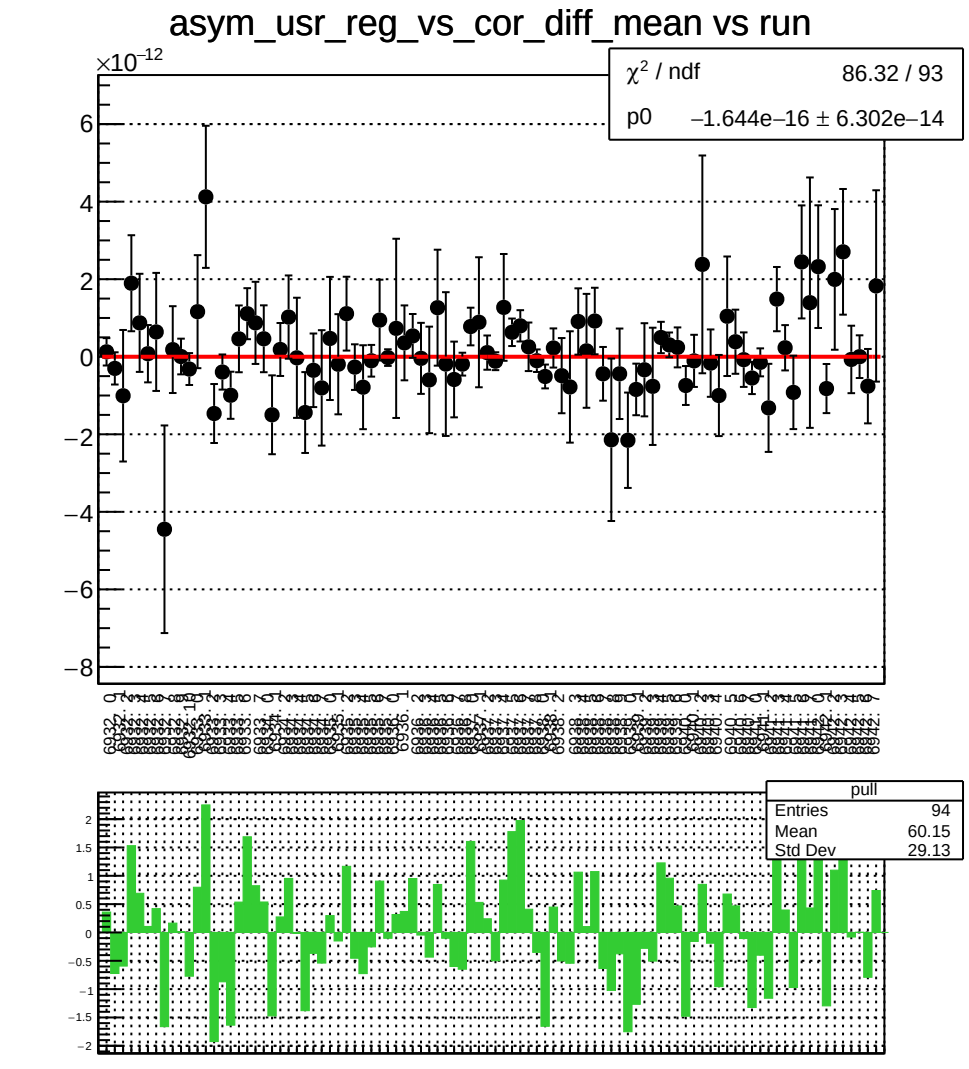

pull1D
Entries 94
Mean −0.006941
Std Dev 0.9458
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

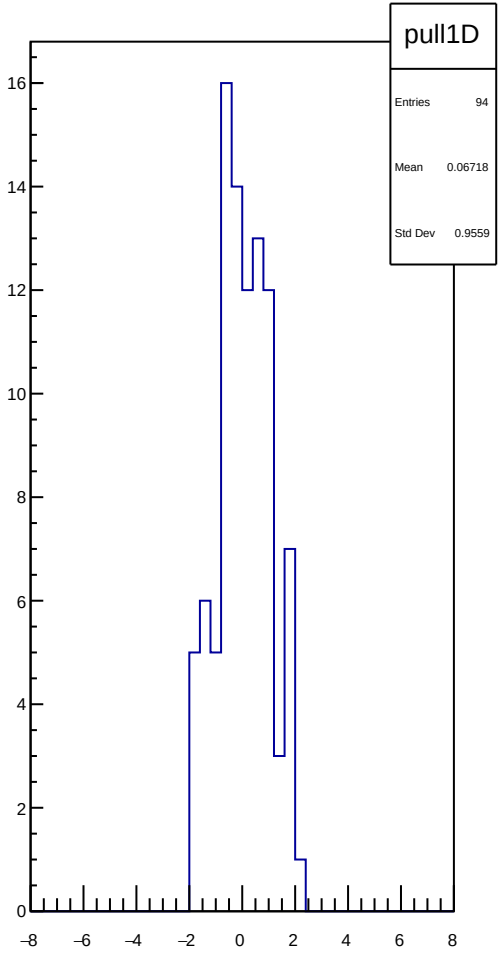

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 5876 / 93
p0 1691 ± 1.275
2000
1900
1800
1700
1600
1500

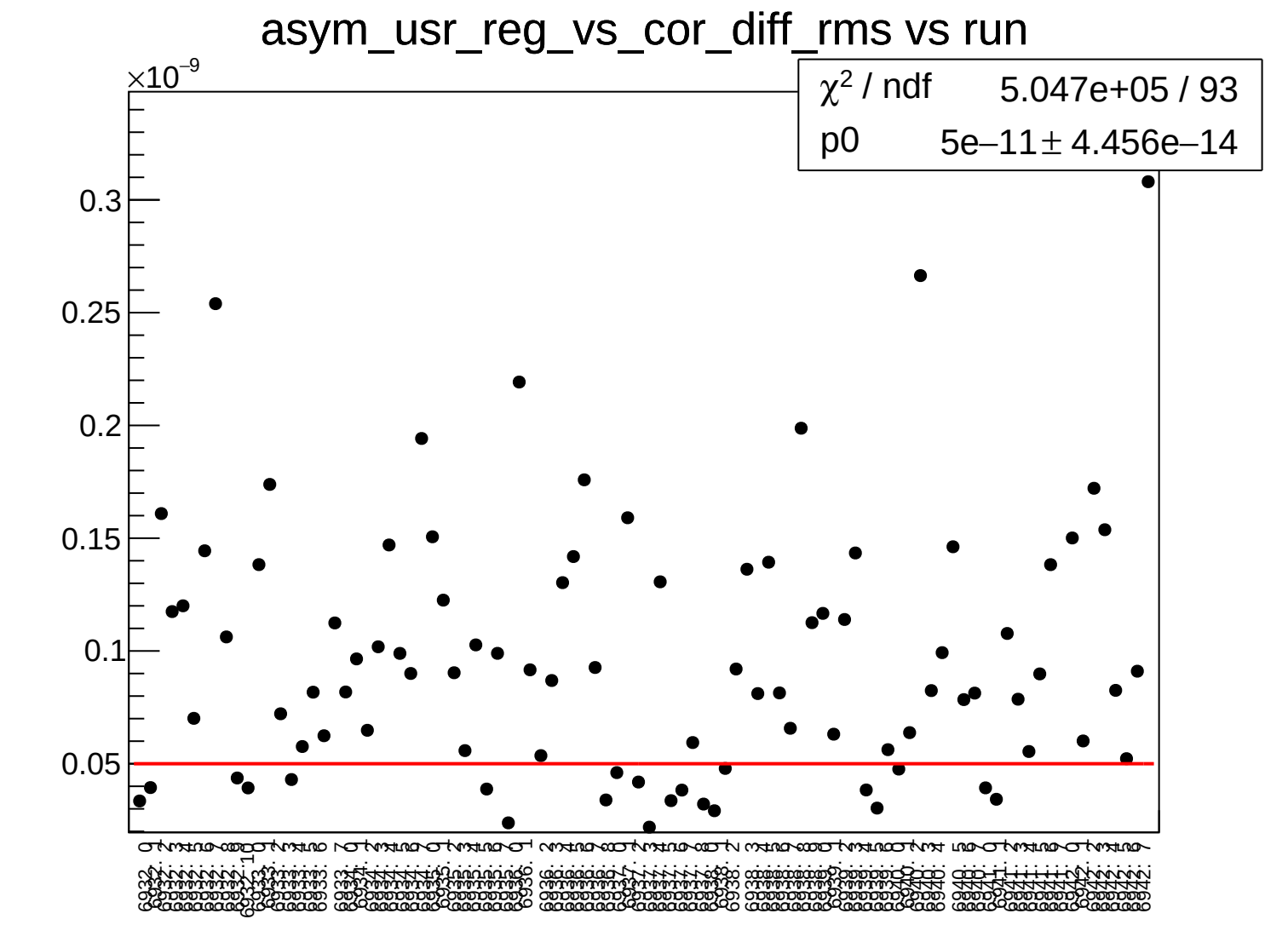

asym_usr_mean vs run
χ² / ndf 106.4 / 93
p0 −3307 ± 2143
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1499
Std Dev 0
2
1
0
−1
−2

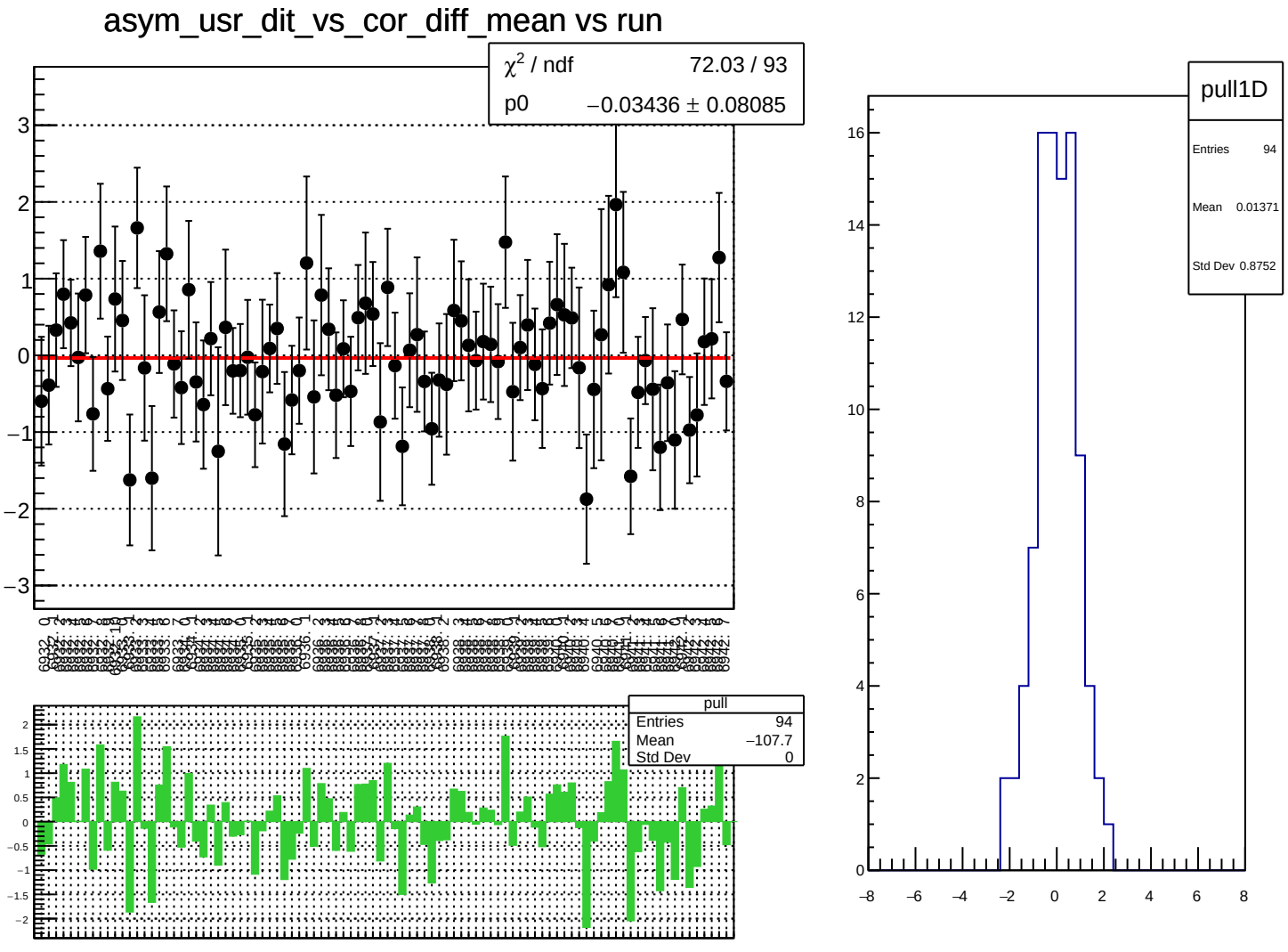

pull1D
Entries 94
Mean 0.003654
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

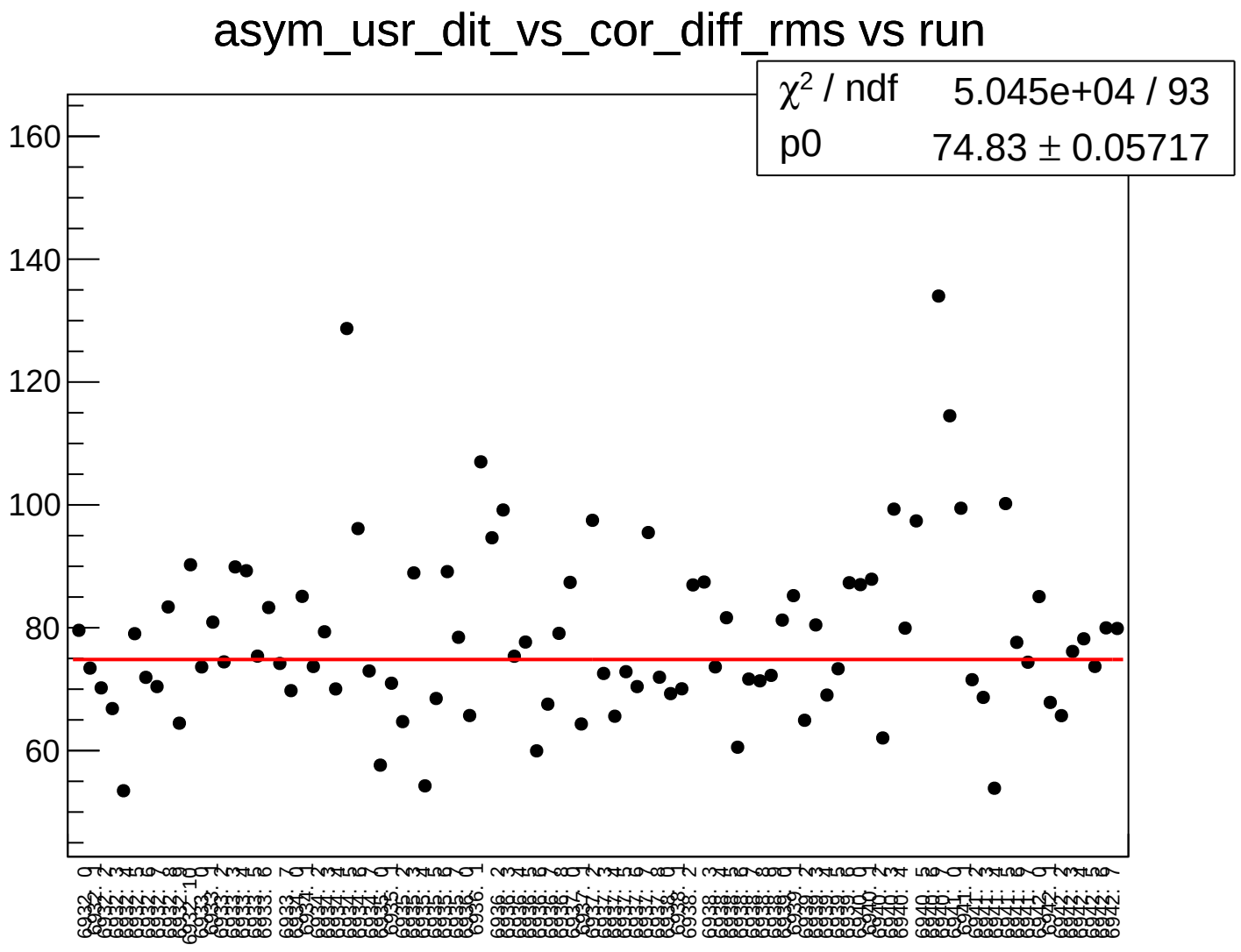

asym_usr_rms vs run
χ² / ndf 3392 / 93
p0 2010 ± 1.515
2200
2100
2000
1900
1800

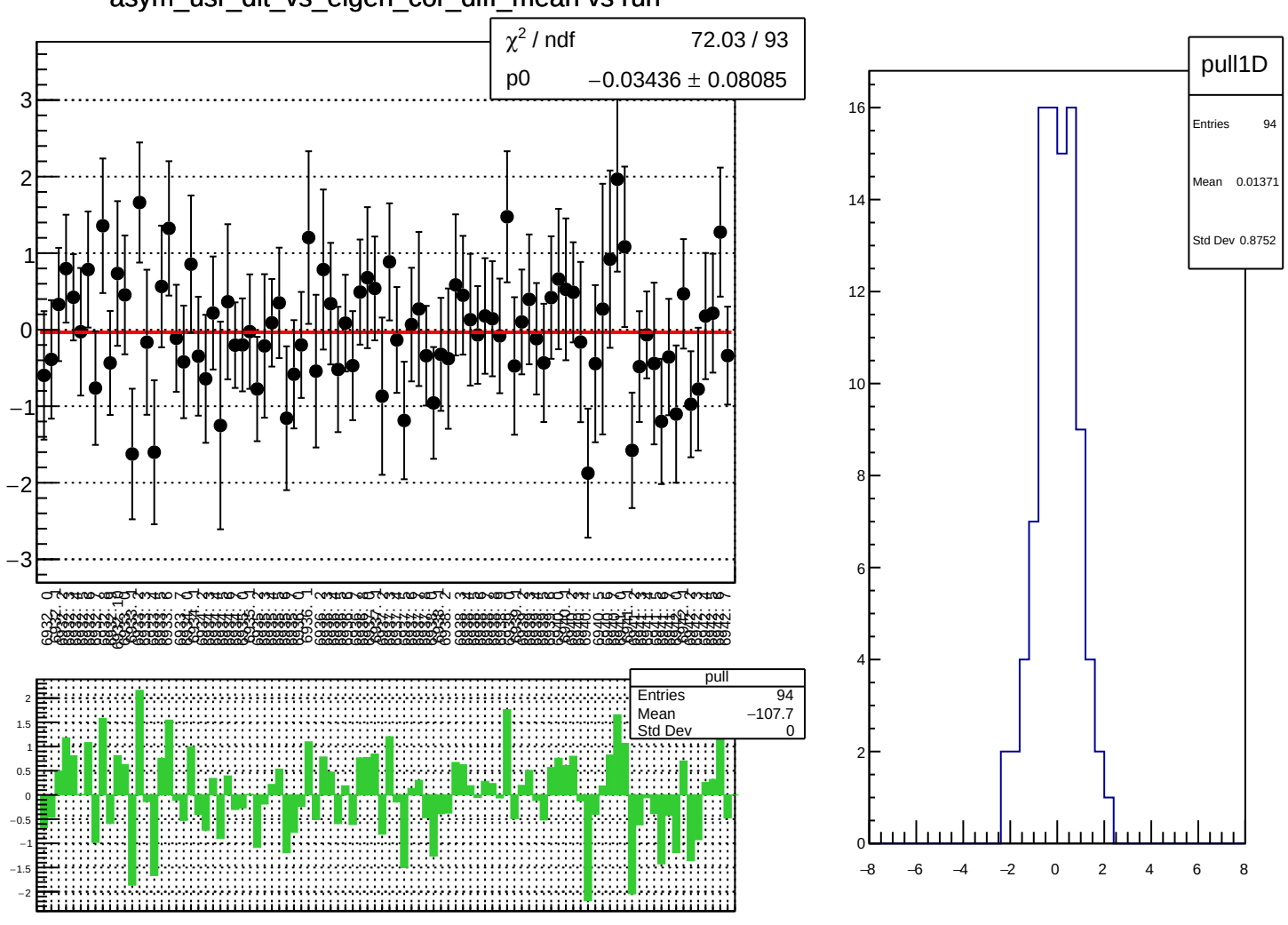

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.32 / 93
p0 −1.644e−16 ± 6.302e−14
pull
Entries 94
Mean 60.15
Std Dev 29.13

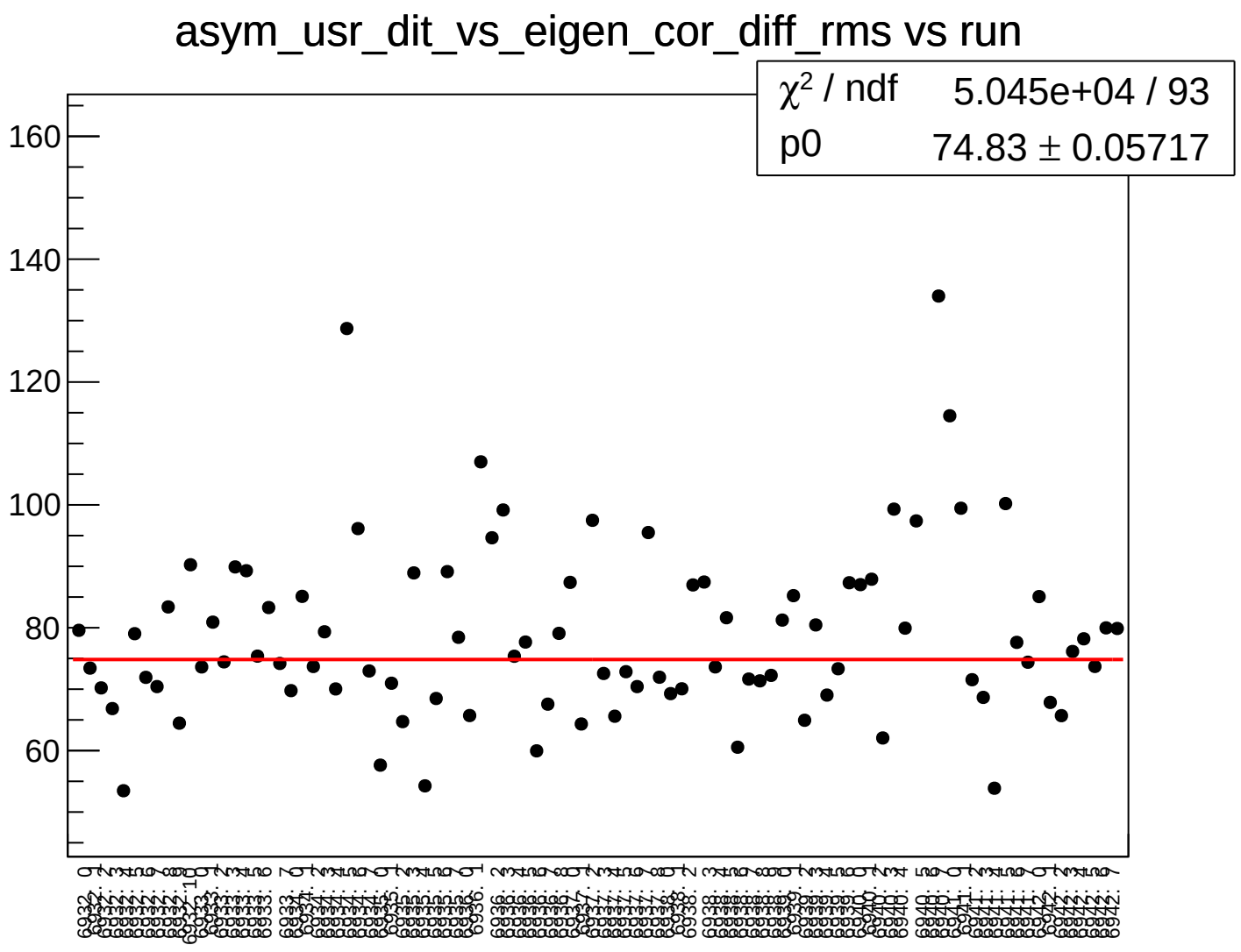

pull1D
Entries 94
Mean 0.06718
Std Dev 0.9559

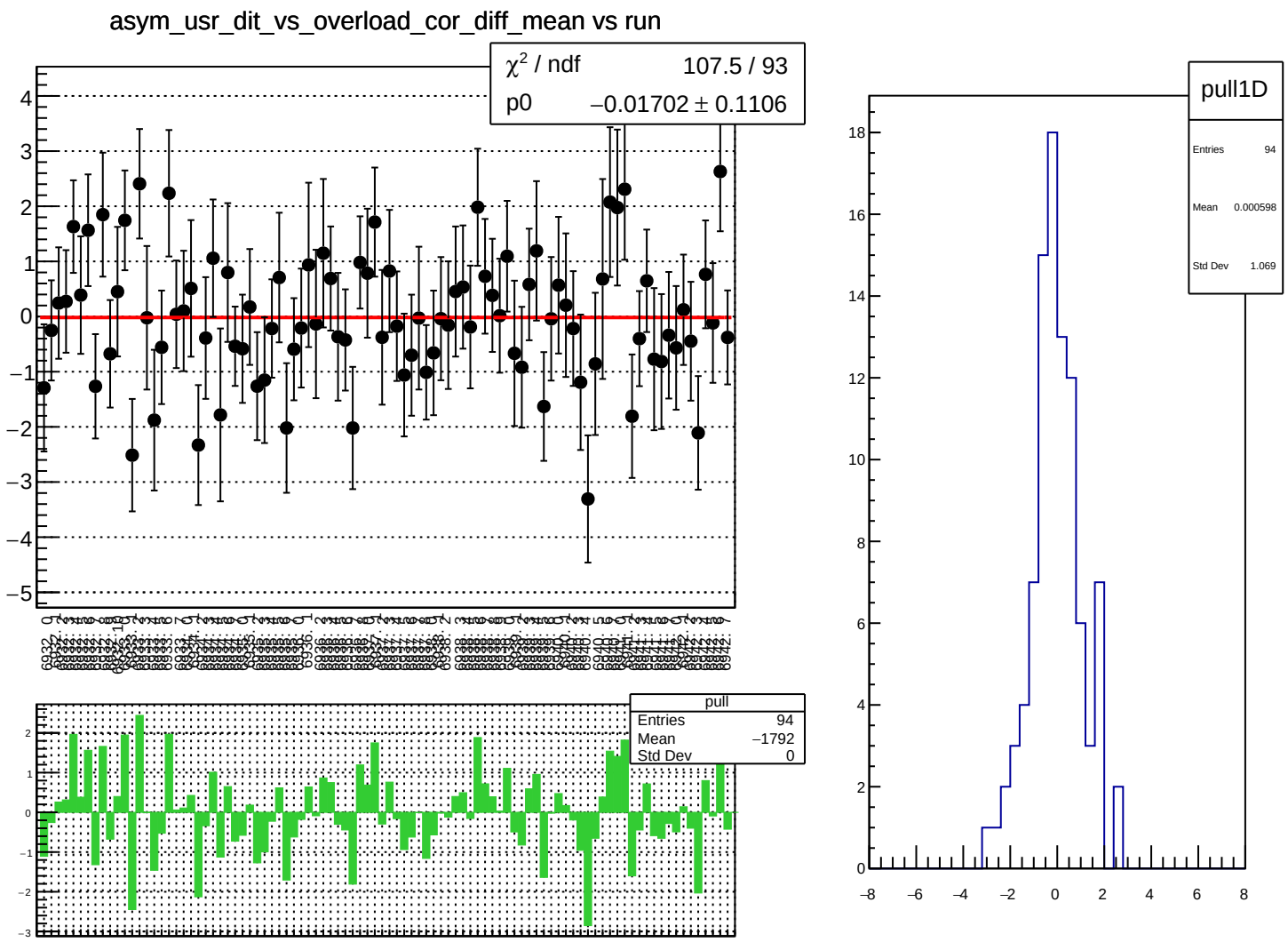

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.047e+05 / 93
p0 5e−11 ± 4.456e−14
0.3
0.25
0.2
0.15
0.1
0.05

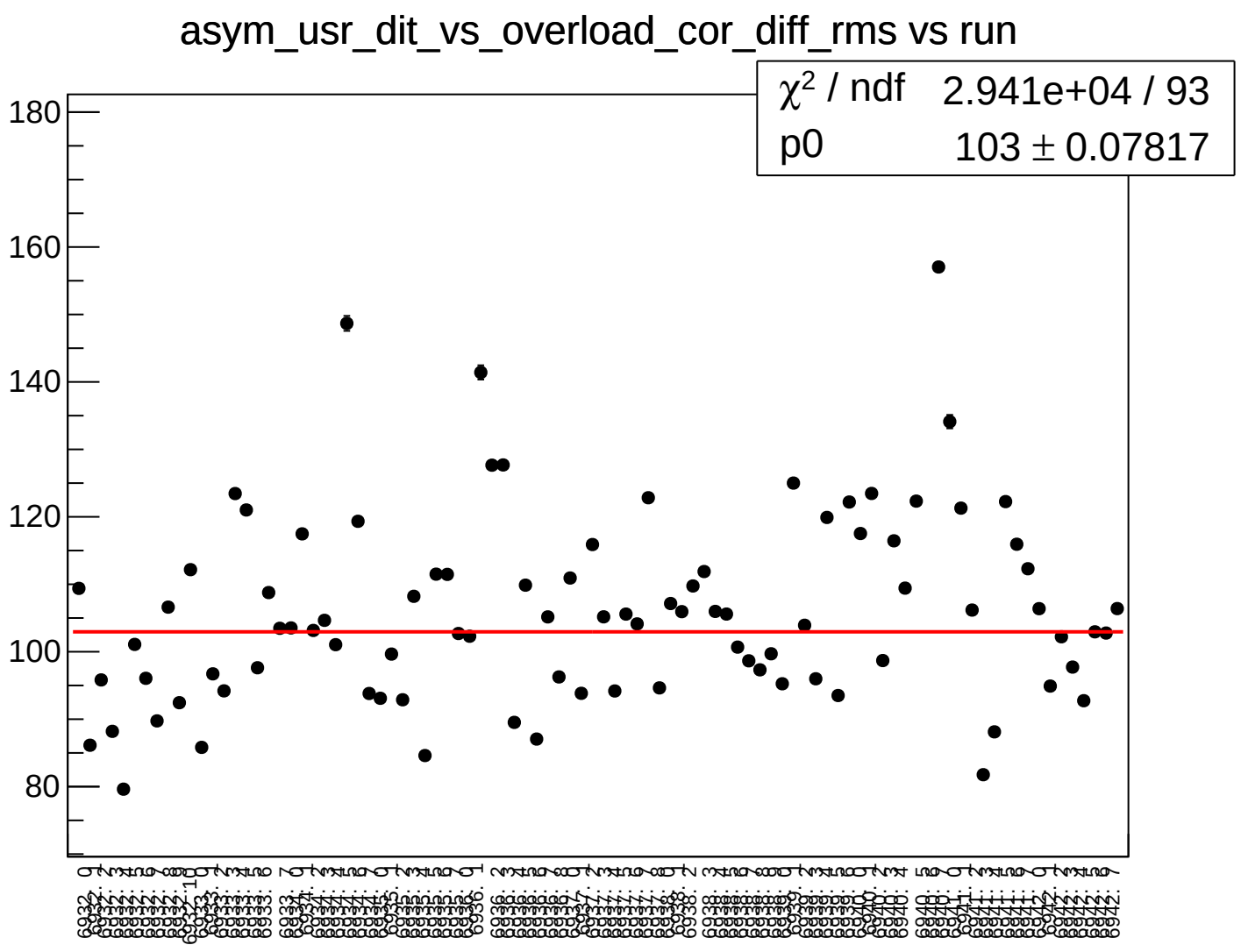

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 72.03 / 93
p0 −0.03436 ± 0.08085
pull
Entries 94
Mean −107.7
Std Dev 0
pull1D
Entries 94
Mean 0.01371
Std Dev 0.8752

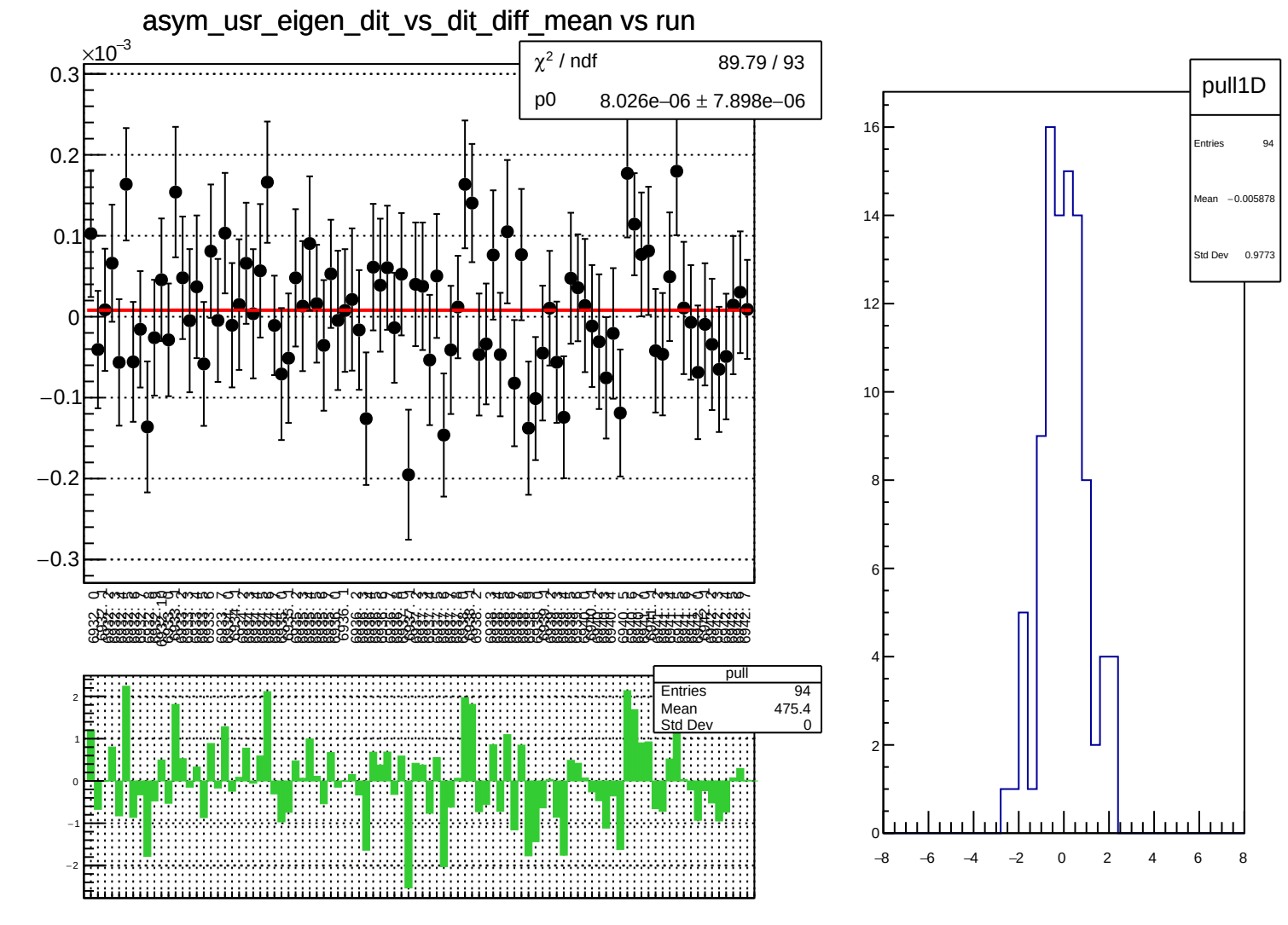

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 5.045e+04 / 93
p0 74.83 ± 0.05717
160
140
120
100
80
60

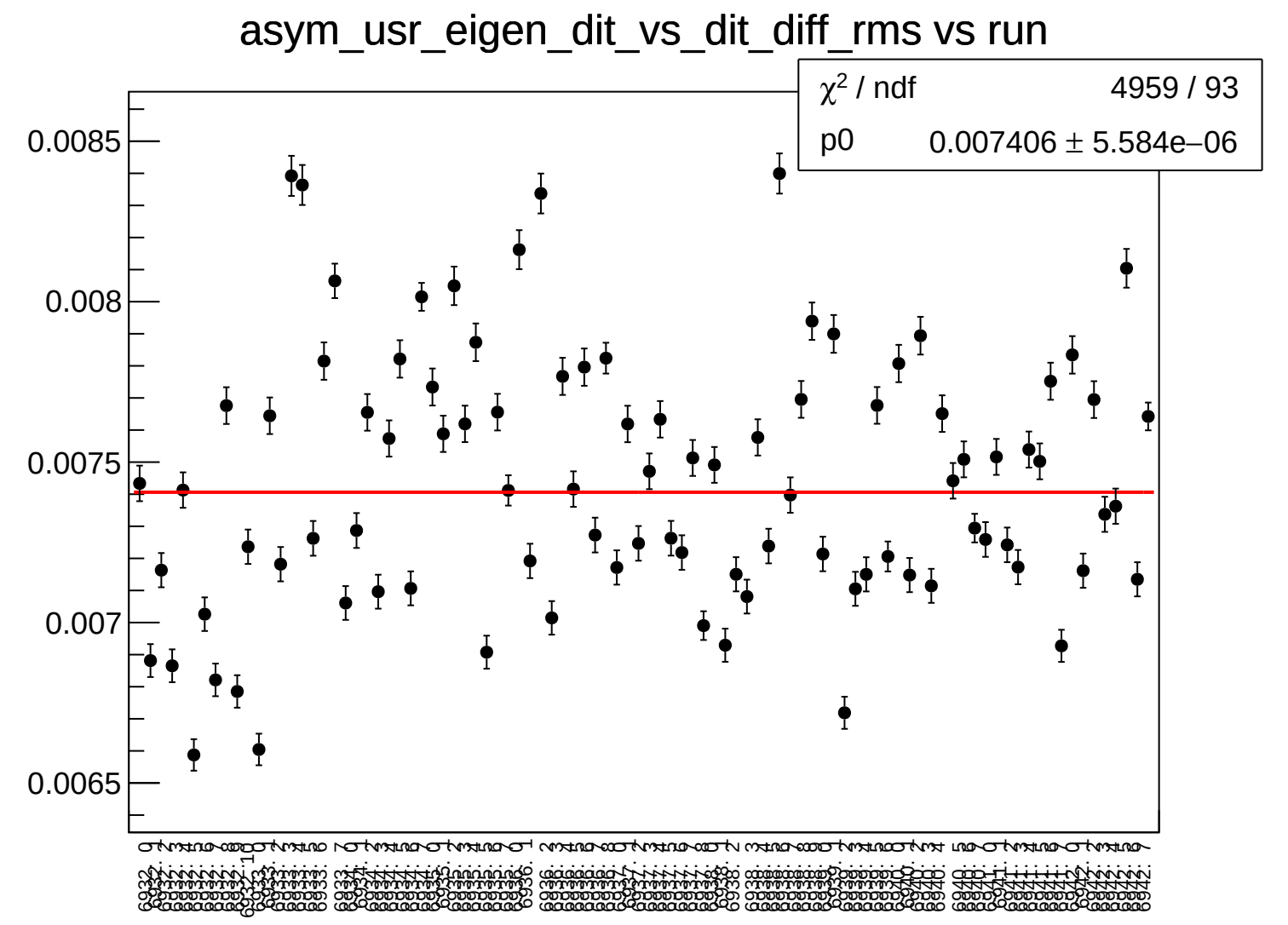

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.03 / 93
p0 −0.03436 ± 0.08085
pull
Entries 94
Mean −107.7
Std Dev 0
pull1D
Entries 94
Mean 0.01371
Std Dev 0.8752

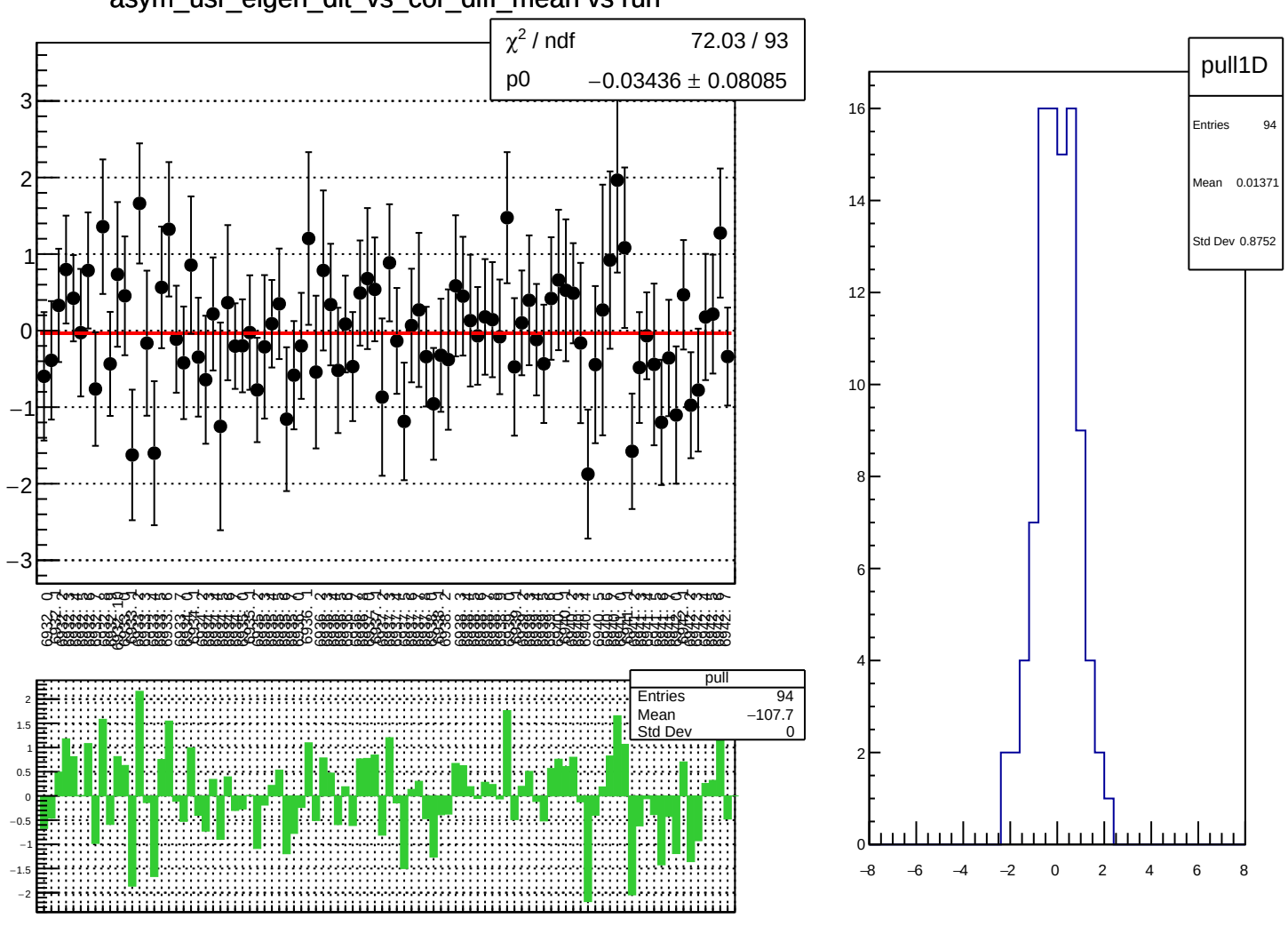

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.045e+04 / 93
p0 74.83 ± 0.05717
160
140
120
100
80
60

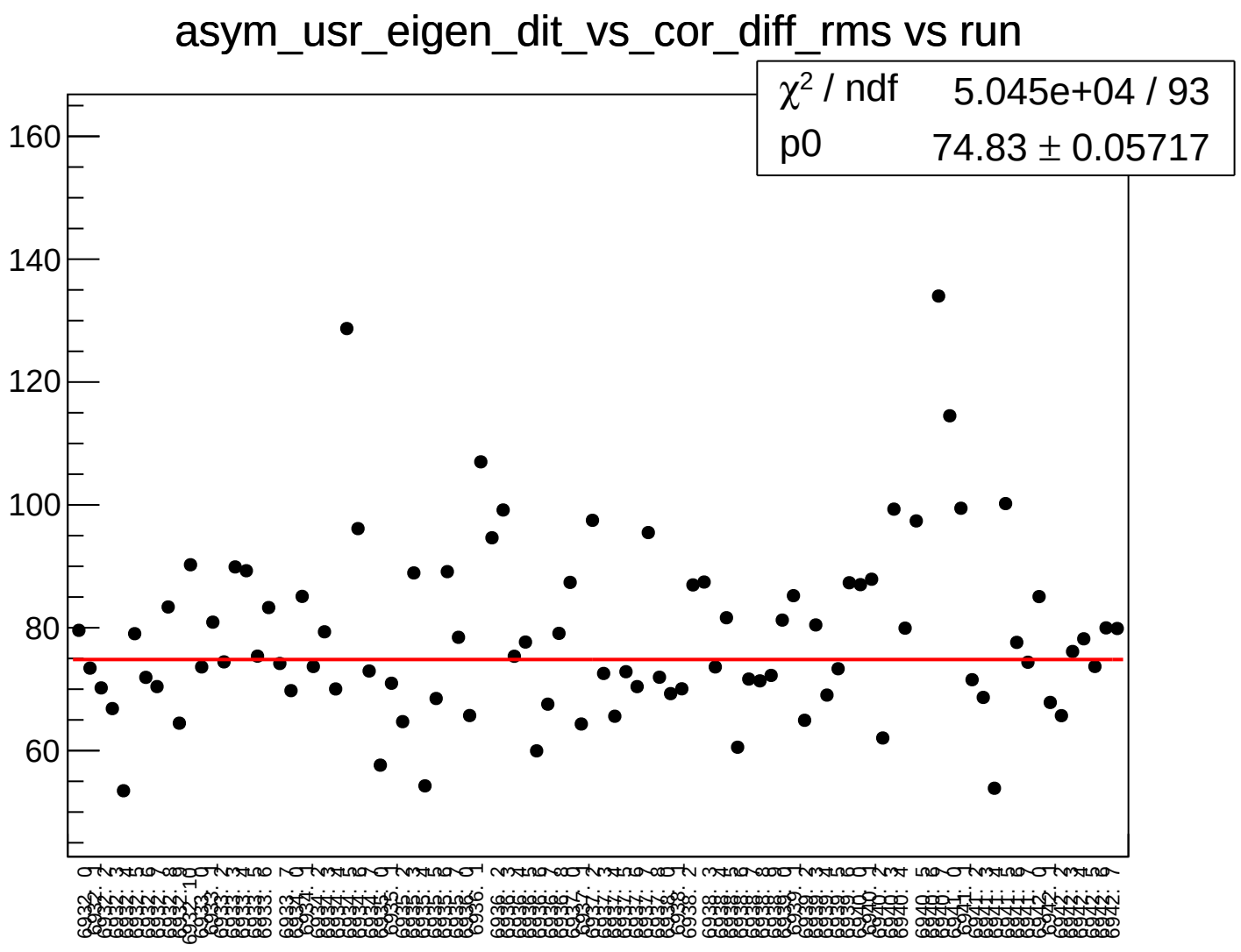

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 107.5 / 93
p0 −0.01702 ± 0.1106
pull
Entries 94
Mean −1792
Std Dev 0
pull1D
Entries 94
Mean 0.000598
Std Dev 1.069

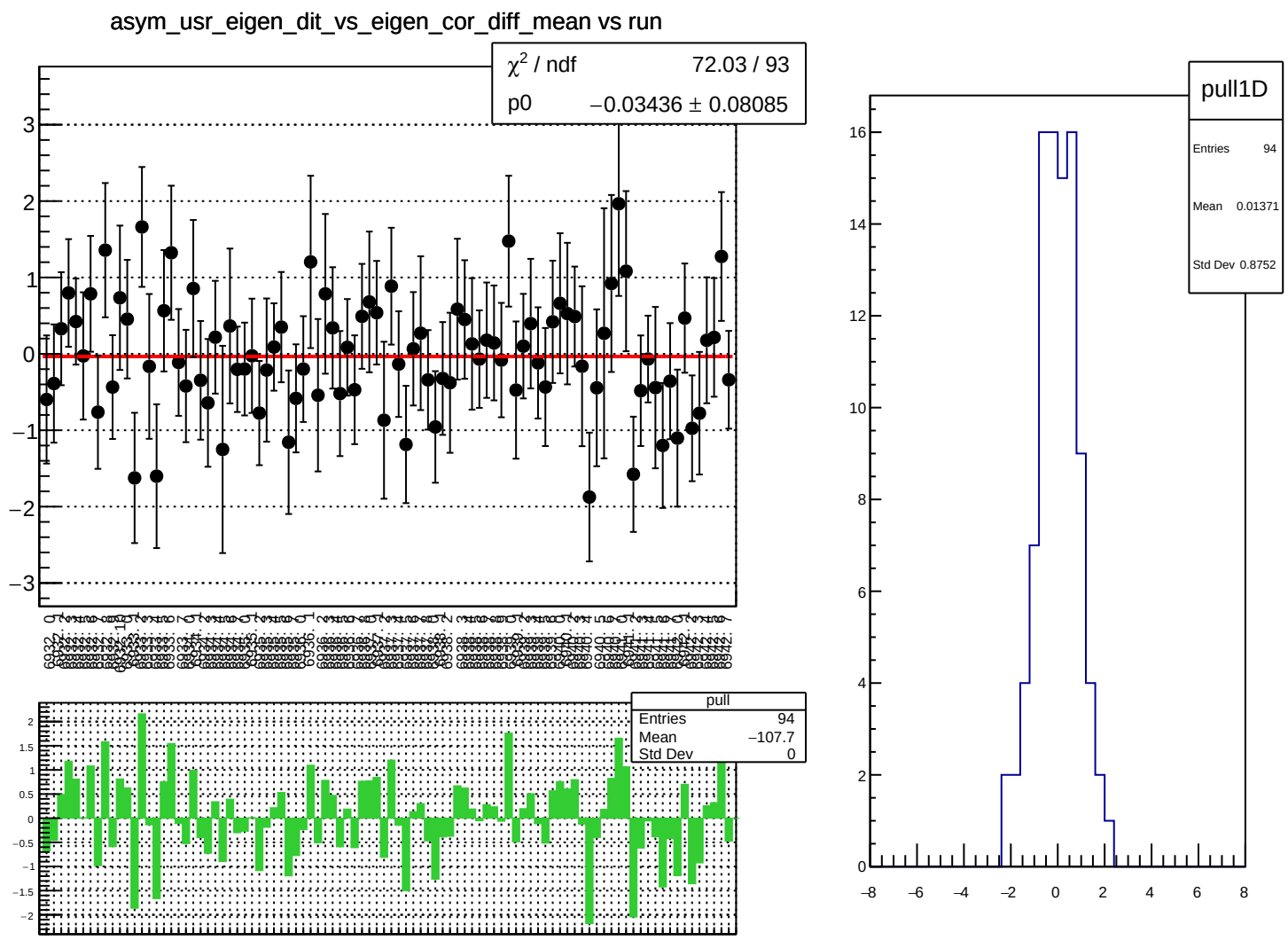

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 93
p0 103 ± 0.07817
180
160
140
120
100
80

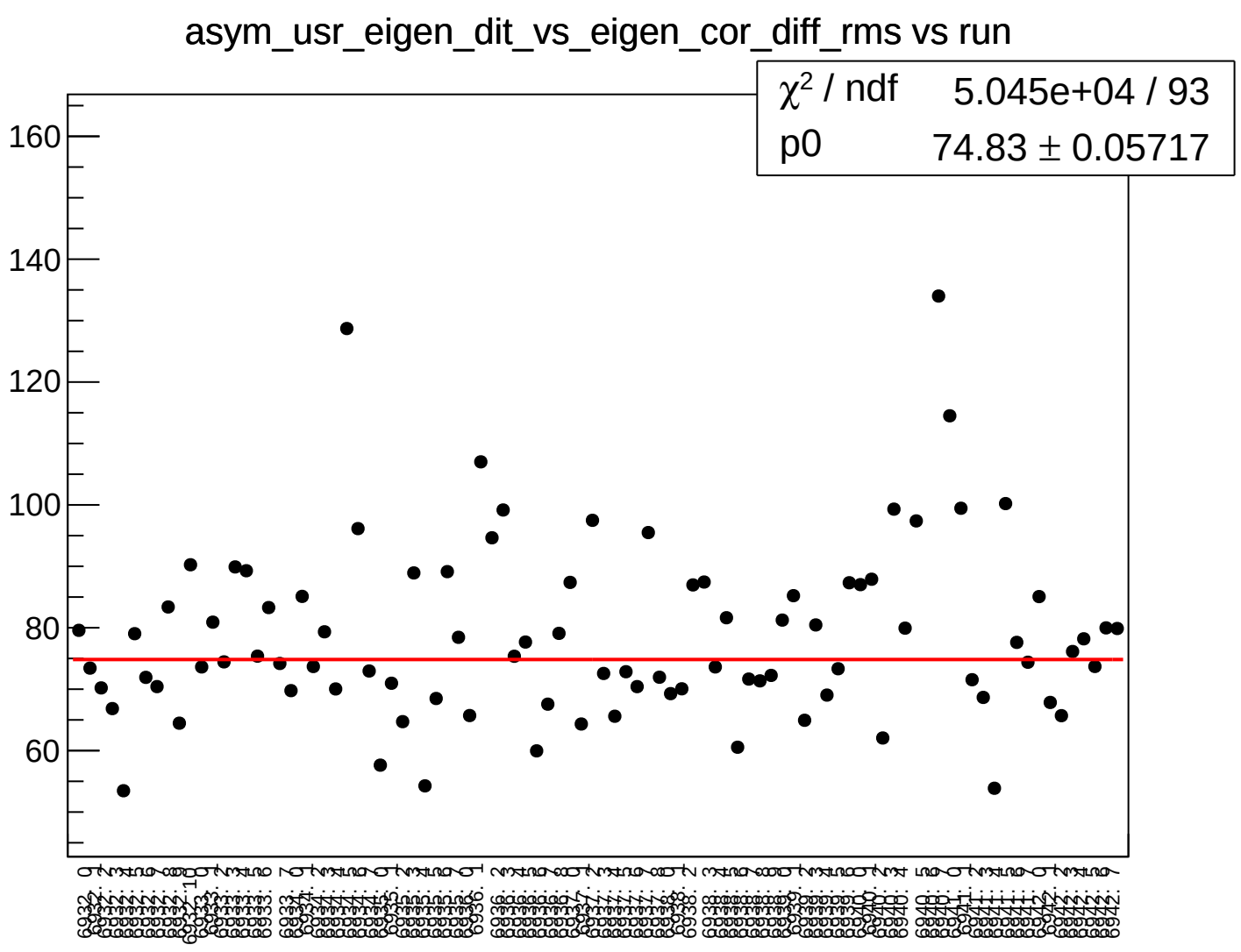

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.79 / 93
p0 8.026e−06 ± 7.898e−06
pull
Entries 94
Mean 475.4
Std Dev 0
pull1D
Entries 94
Mean −0.005878
Std Dev 0.9773

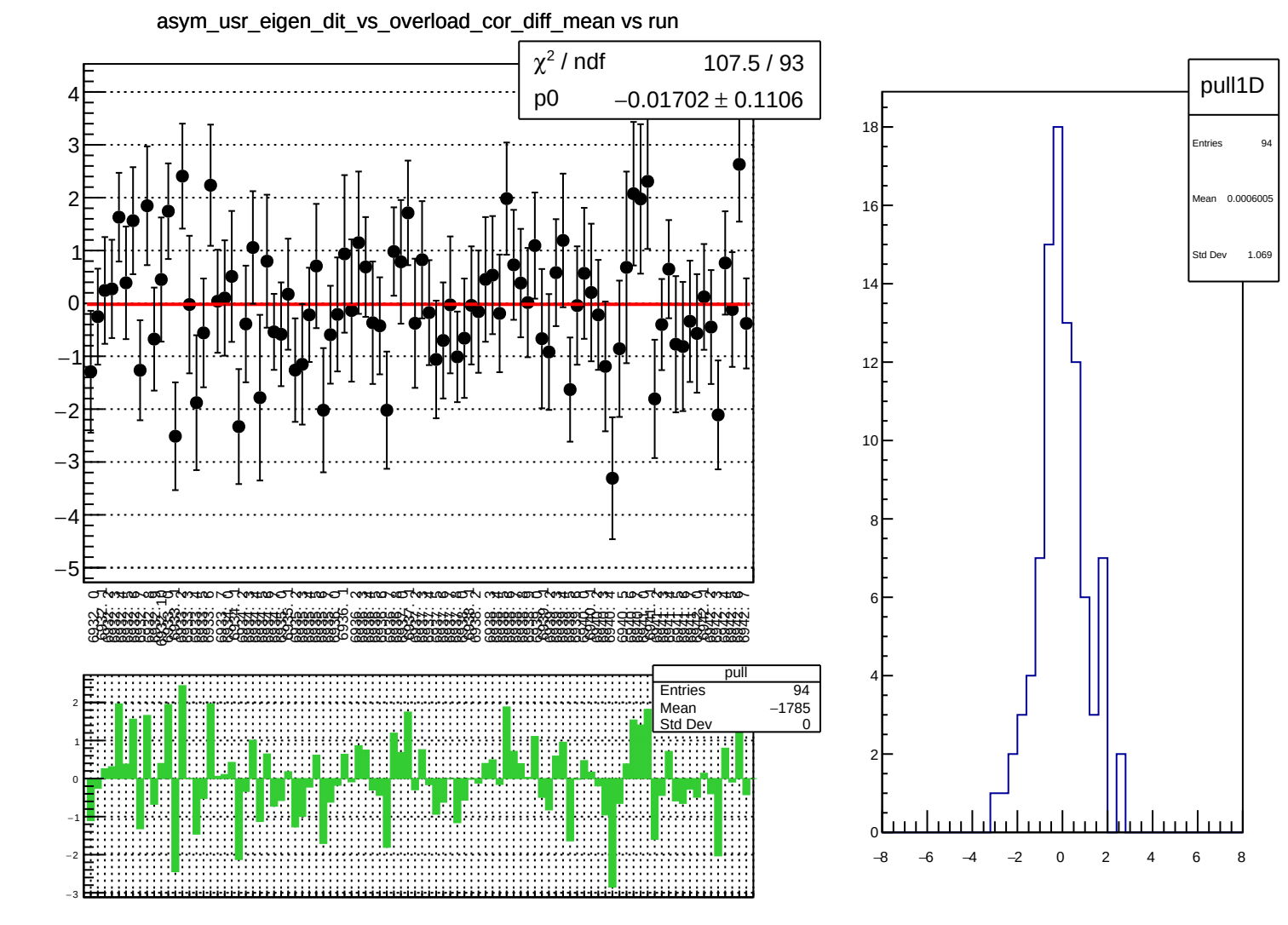

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4959 / 93
p0 0.007406 ± 5.584e−06
0.0085
0.008
0.0075
0.007
0.0065

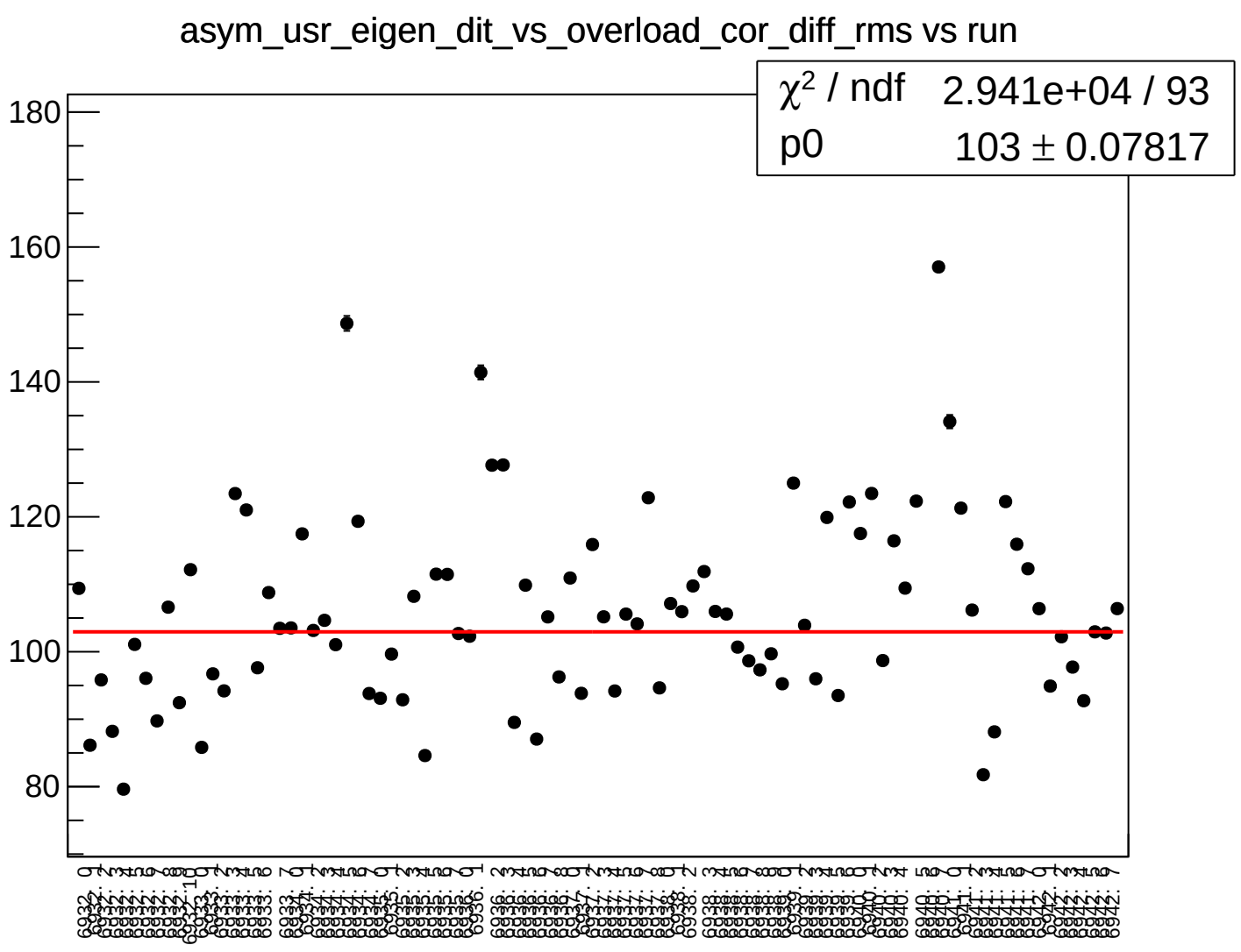

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.03 / 93
p0 −0.03436 ± 0.08085
pull
Entries 94
Mean −107.7
Std Dev 0
pull1D
Entries 94
Mean 0.01371
Std Dev 0.8752

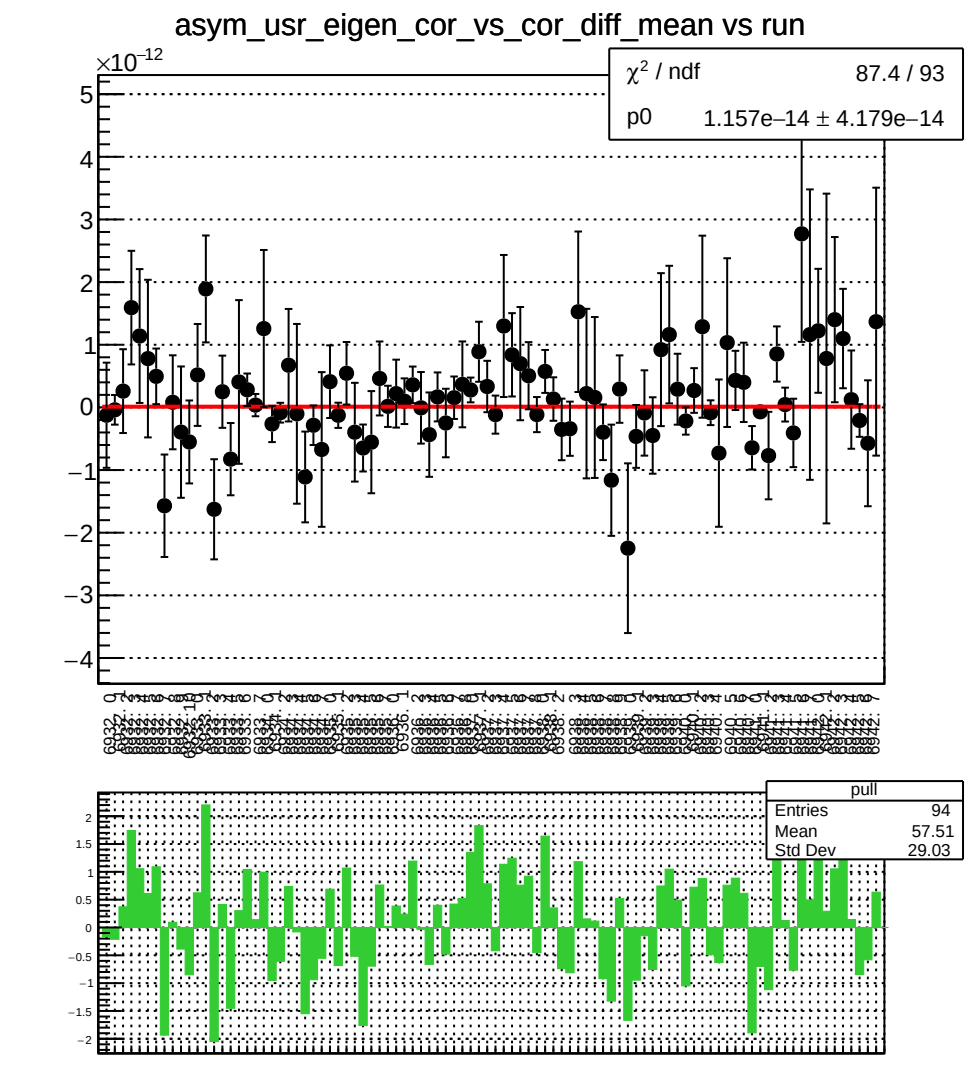

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.045e+04 / 93
p0 74.83 ± 0.05717
160
140
120
100
80
60

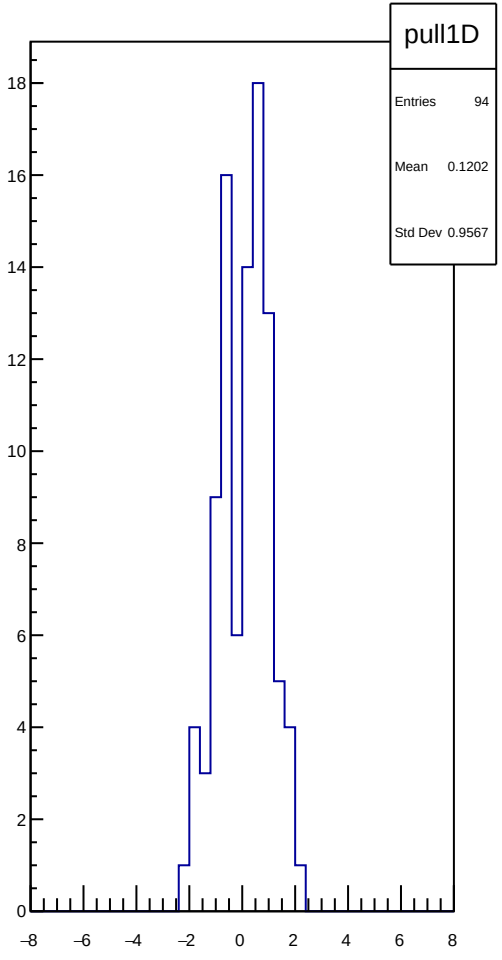

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.03 / 93
p0 −0.03436 ± 0.08085
pull
Entries 94
Mean −107.7
Std Dev 0
pull1D
Entries 94
Mean 0.01371
Std Dev 0.8752

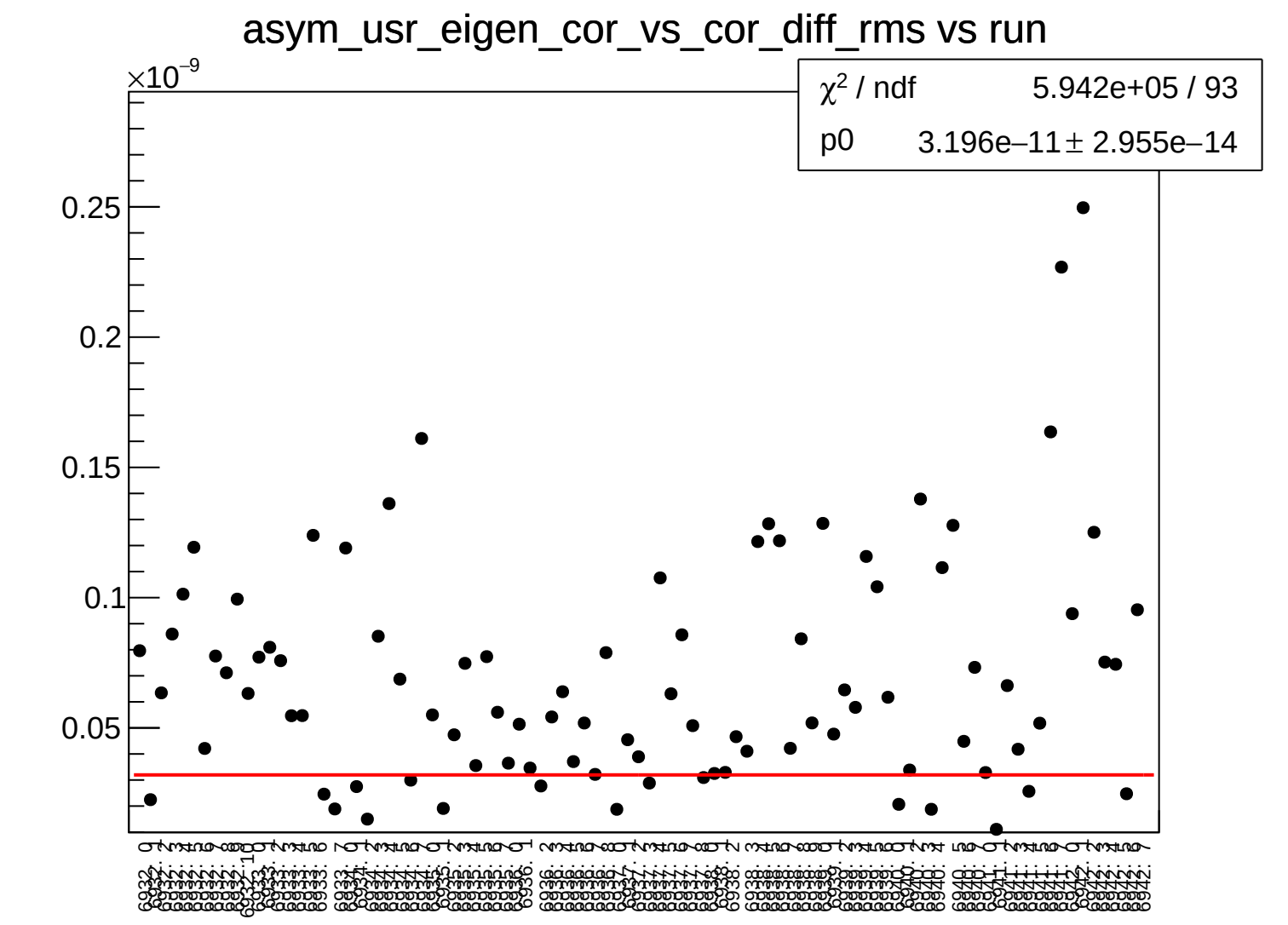

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.045e+04 / 93
p0 74.83 ± 0.05717
160
140
120
100
80
60

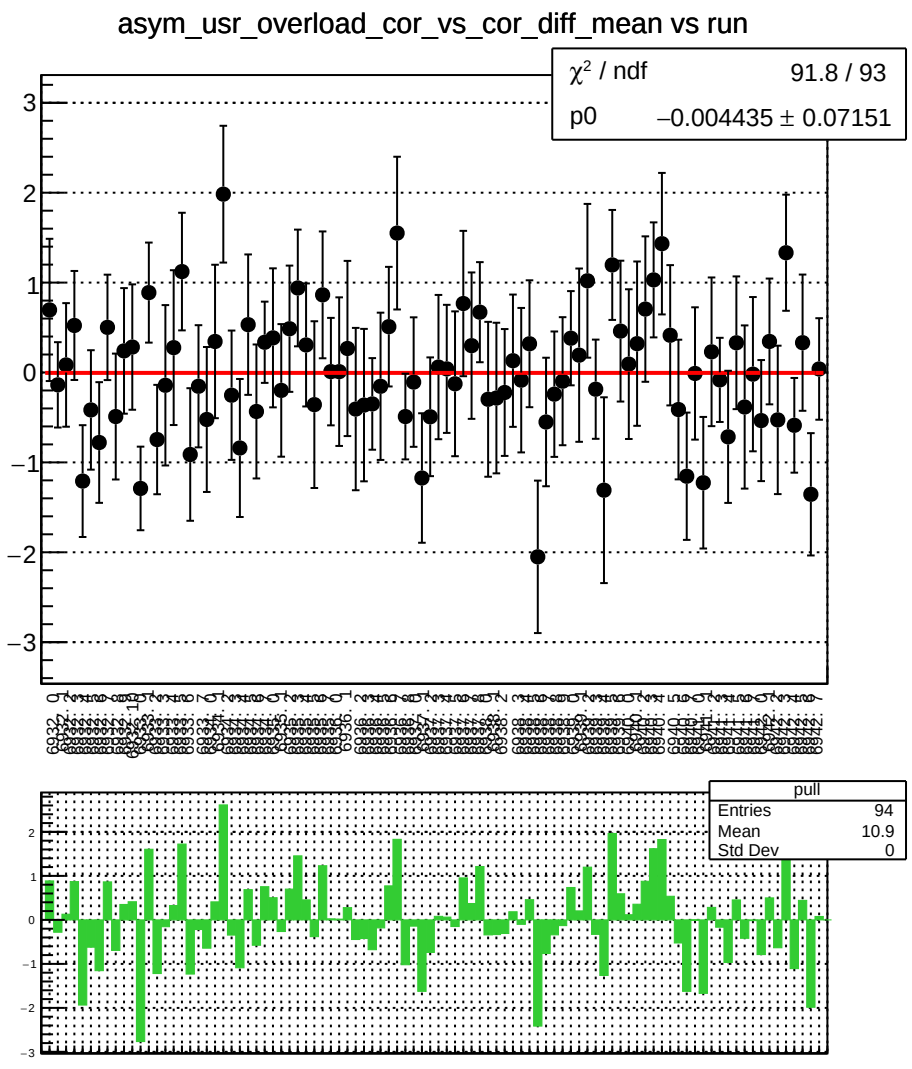

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 107.5 / 93
p0 −0.01702 ± 0.1106
pull
Entries 94
Mean −1785
Std Dev 0
pull1D
Entries 94
Mean 0.0006005
Std Dev 1.069

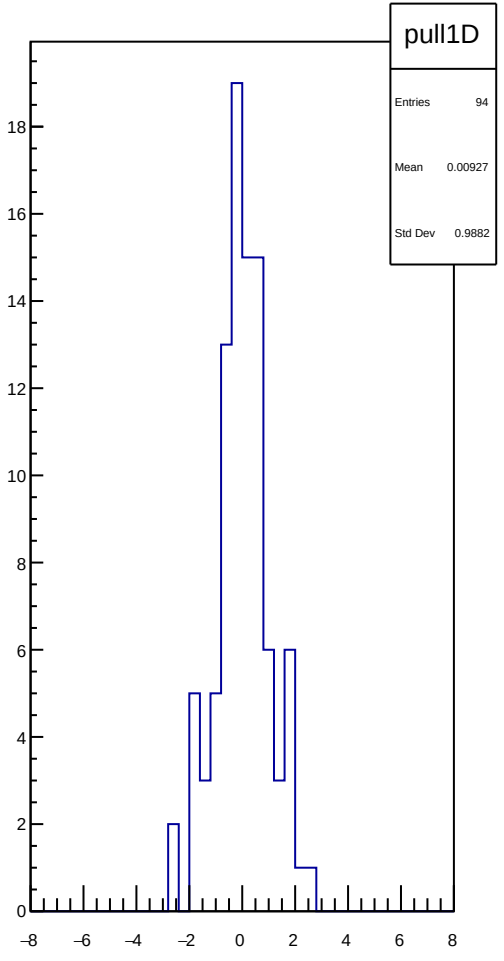

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.941e+04 / 93
p0 103 ± 0.07817
180
160
140
120
100
80

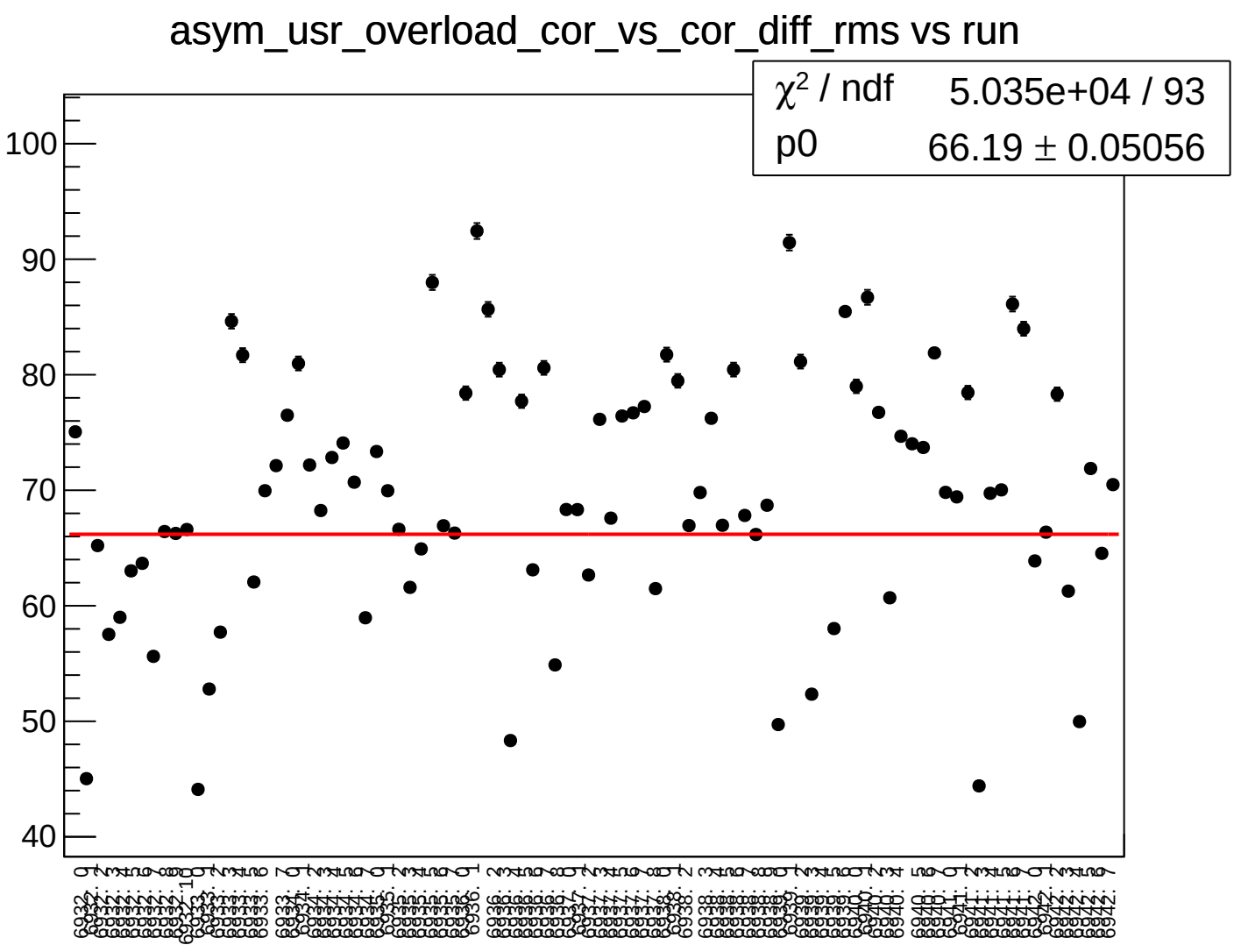

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.4 / 93
p0 1.157e−14 ± 4.179e−14
pull
Entries 94
Mean 57.51
Std Dev 29.03

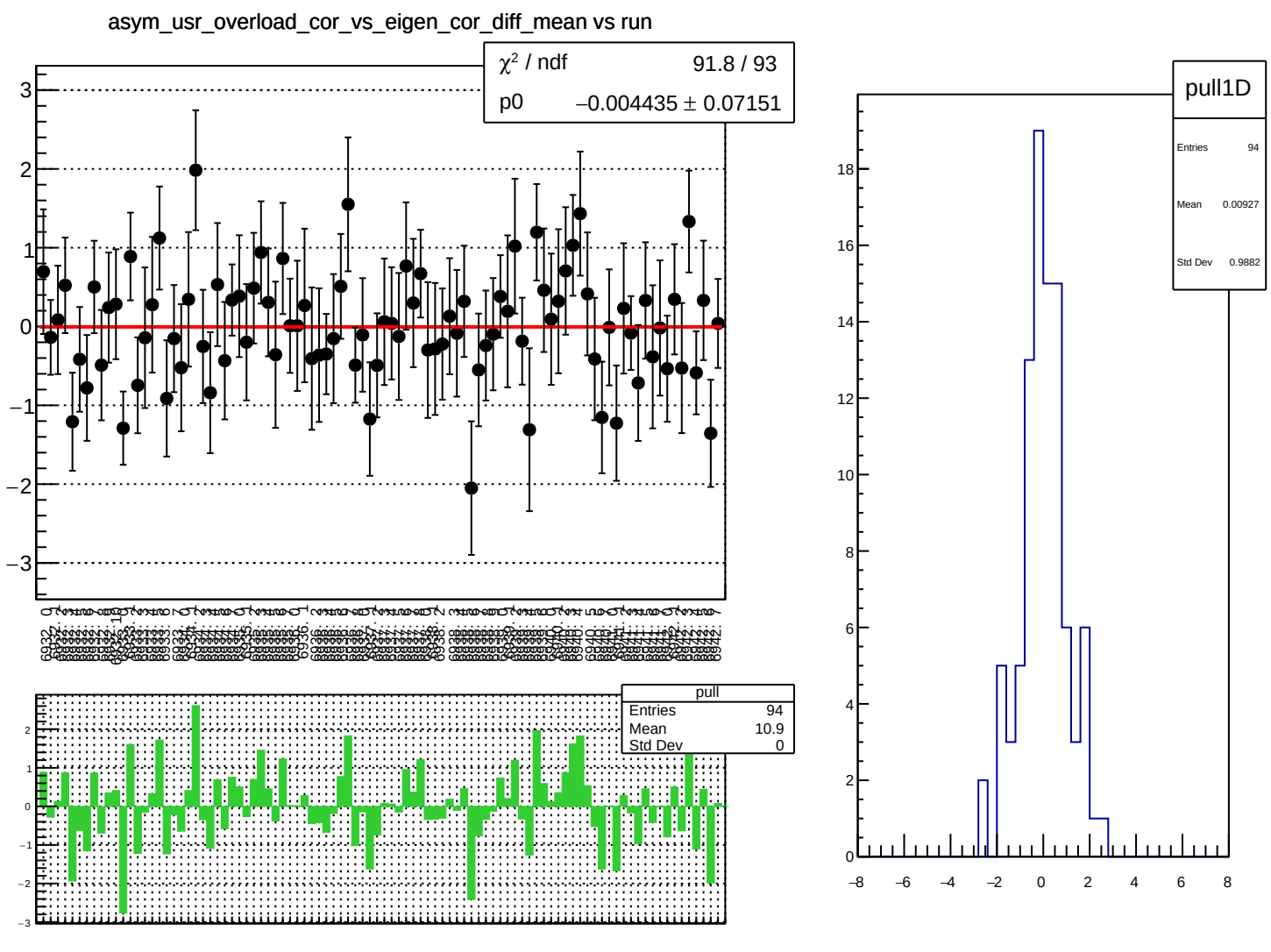

pull1D
Entries 94
Mean 0.1202
Std Dev 0.9567

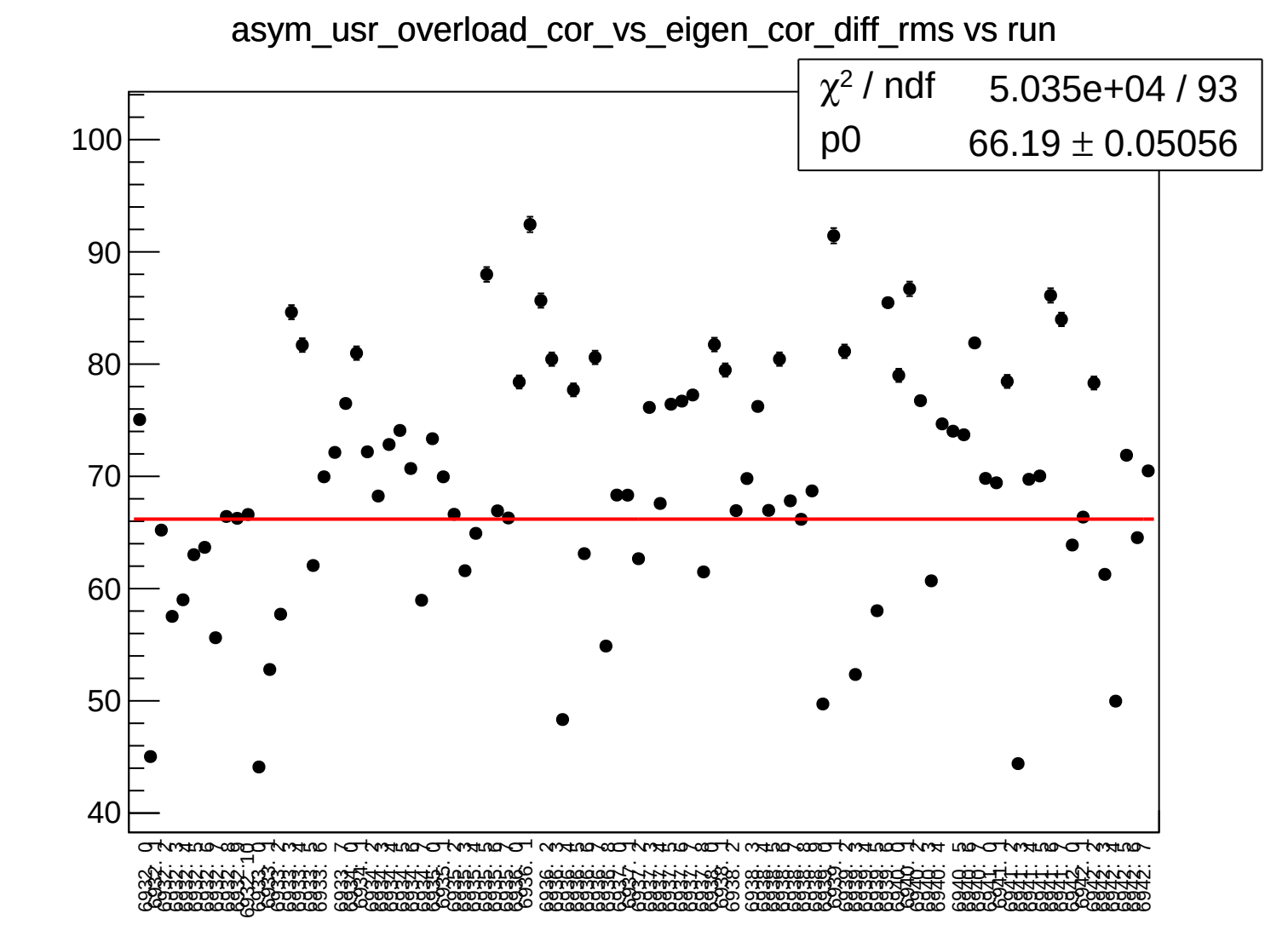

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.942e+05 / 93
p0 3.196e−11 ± 2.955e−14
0.25
0.2
0.15
0.1
0.05

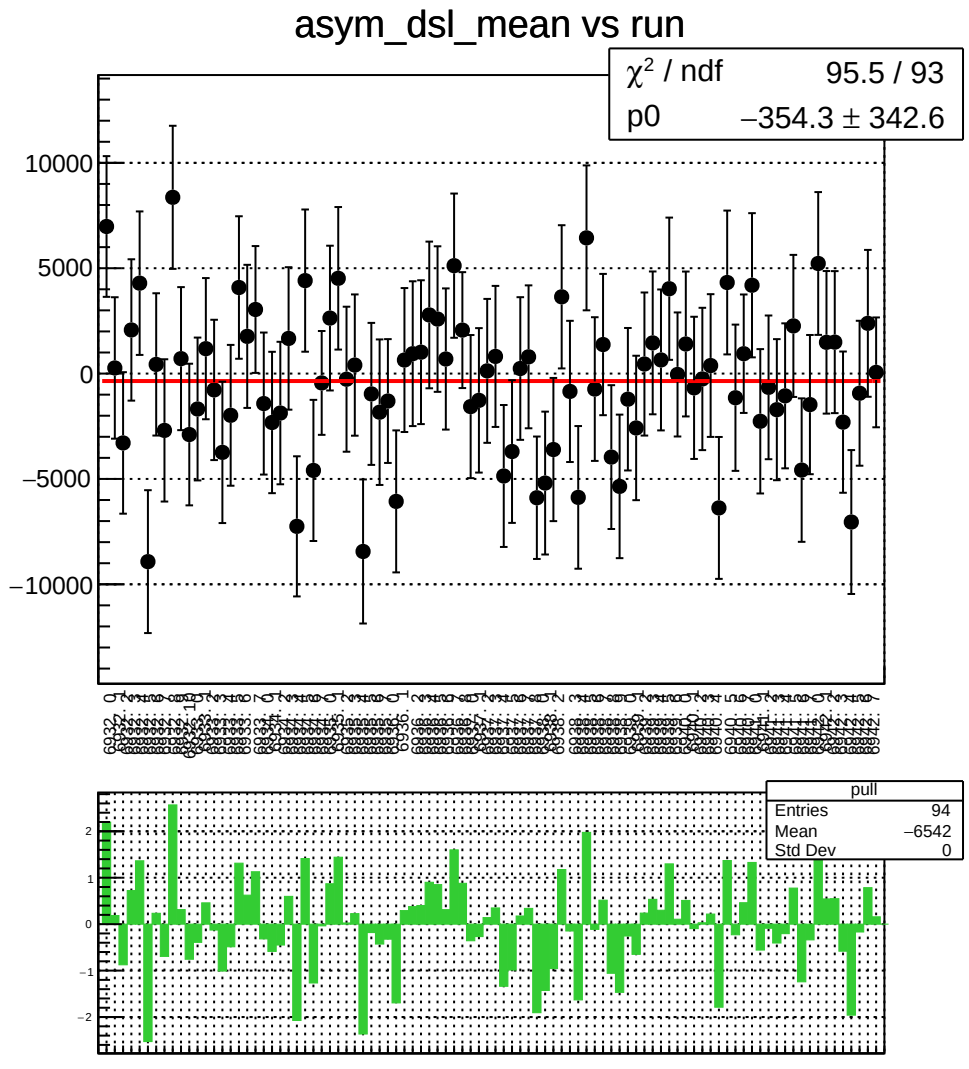

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 91.8 / 93
p0 −0.004435 ± 0.07151
pull
Entries 94
Mean 10.9
Std Dev 0

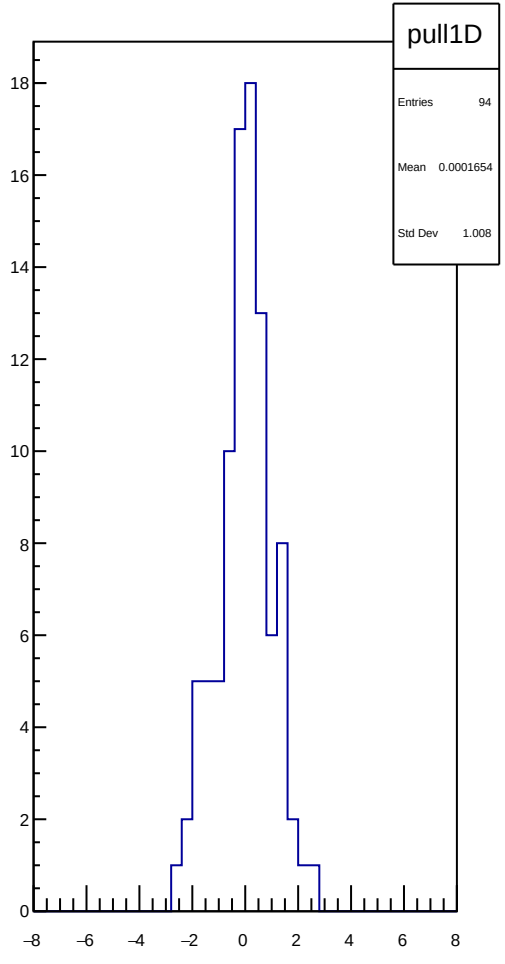

pull1D
Entries 94
Mean 0.00927
Std Dev 0.9882

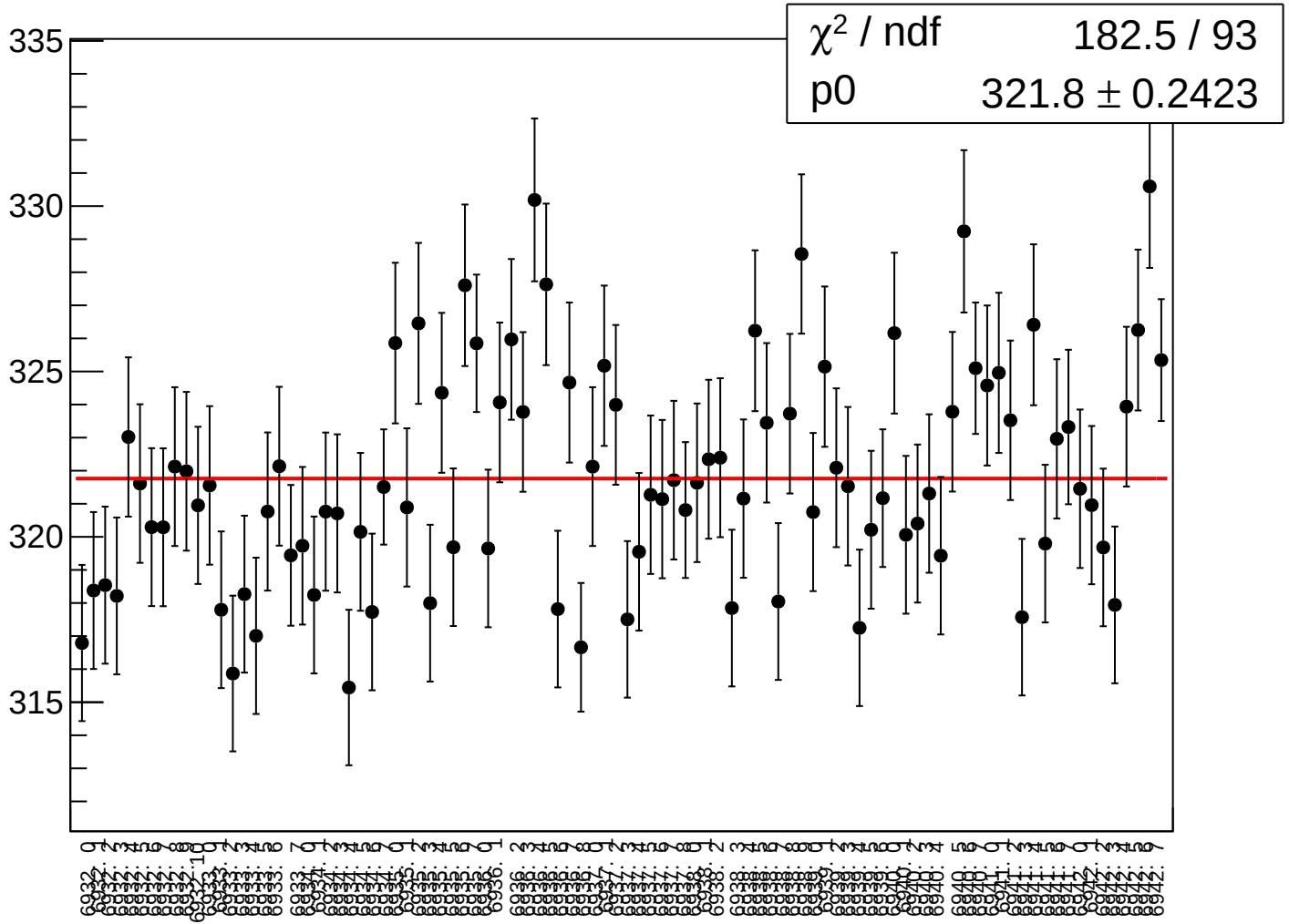

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.035e+04 / 93
p0 66.19 ± 0.05056
100
90
80
70
60
50
40

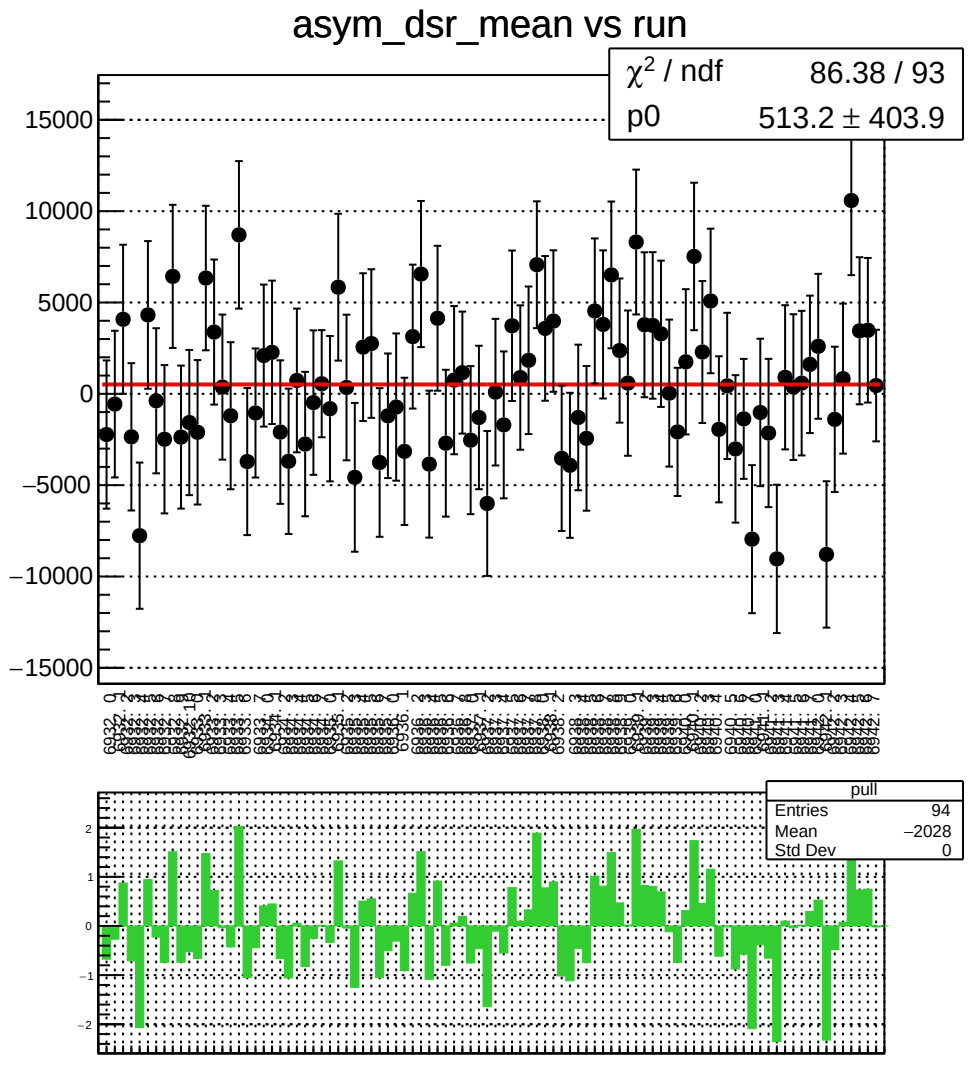

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.8 / 93
p0 −0.004435 ± 0.07151
pull
Entries 94
Mean 10.9
Std Dev 0
pull1D
Entries 94
Mean 0.00927
Std Dev 0.9882

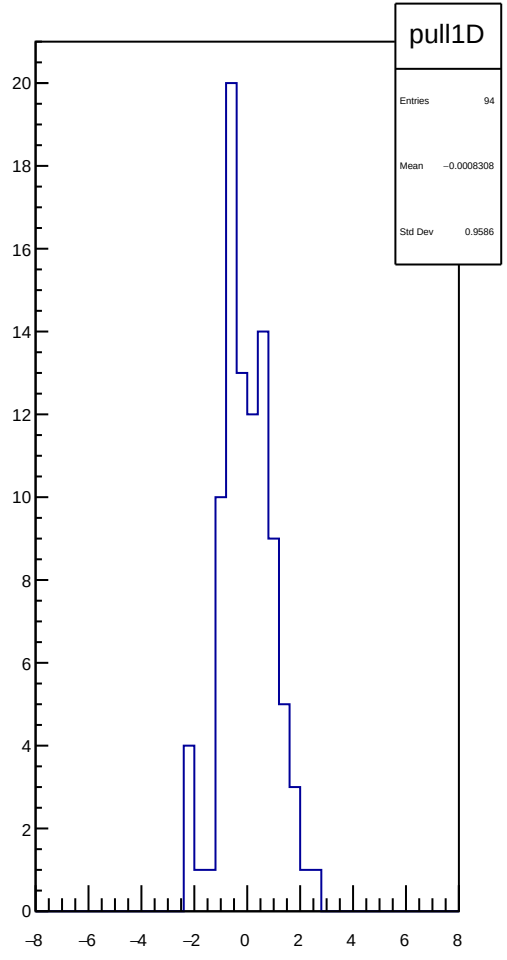

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.035e+04 / 93
p0 66.19 ± 0.05056
100
90
80
70
60
50
40

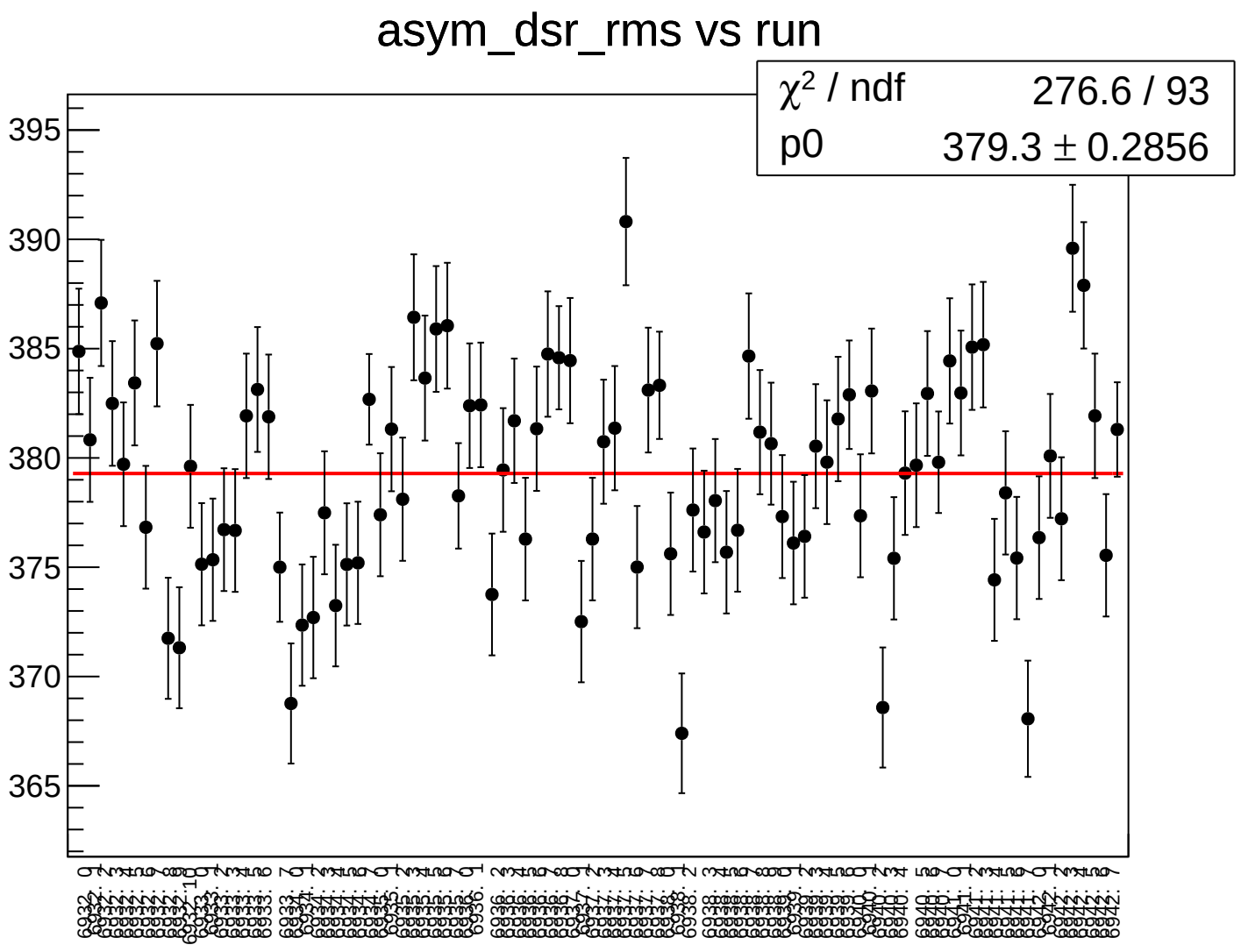

asym_dsl_mean vs run
χ² / ndf 95.5 / 93
p0 −354.3 ± 342.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −6542
Std Dev 0
2
1
0
−1
−2

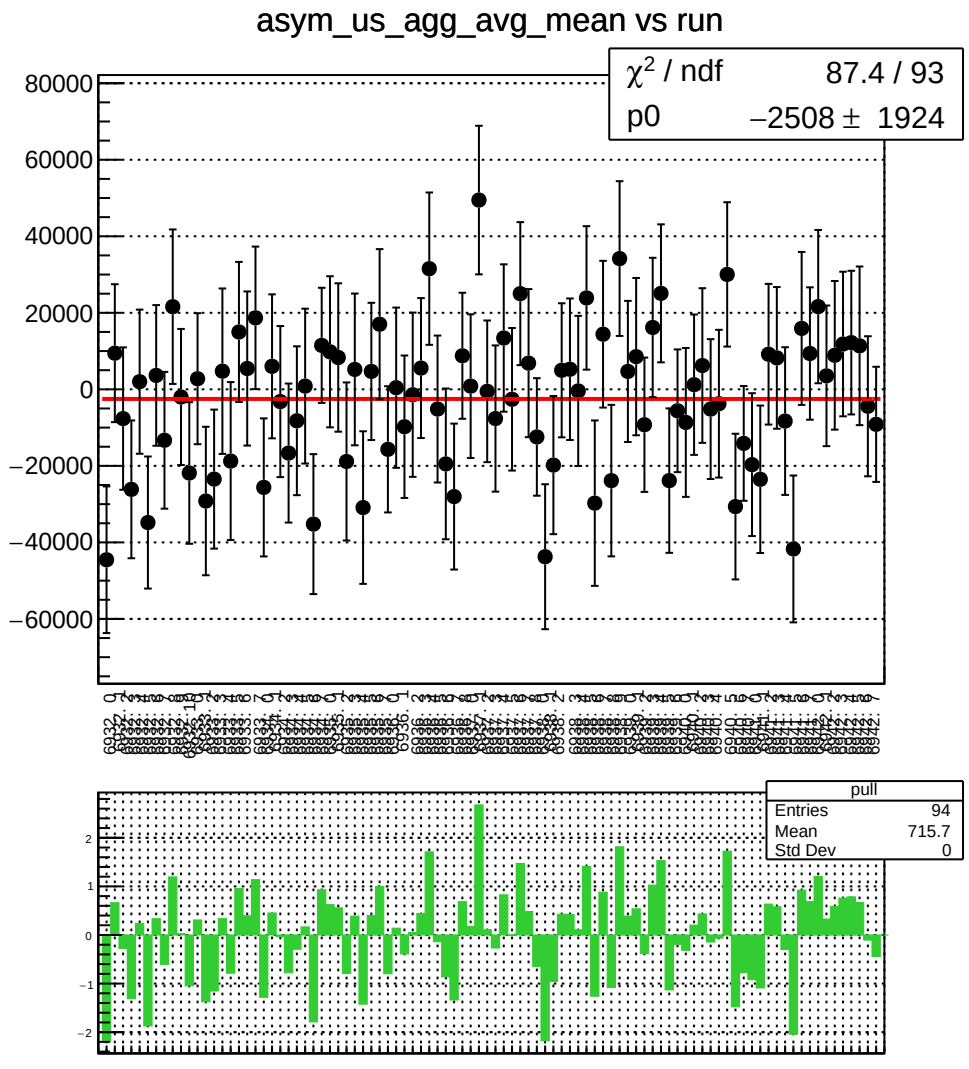

pull1D
Entries 94
Mean 0.0001654
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

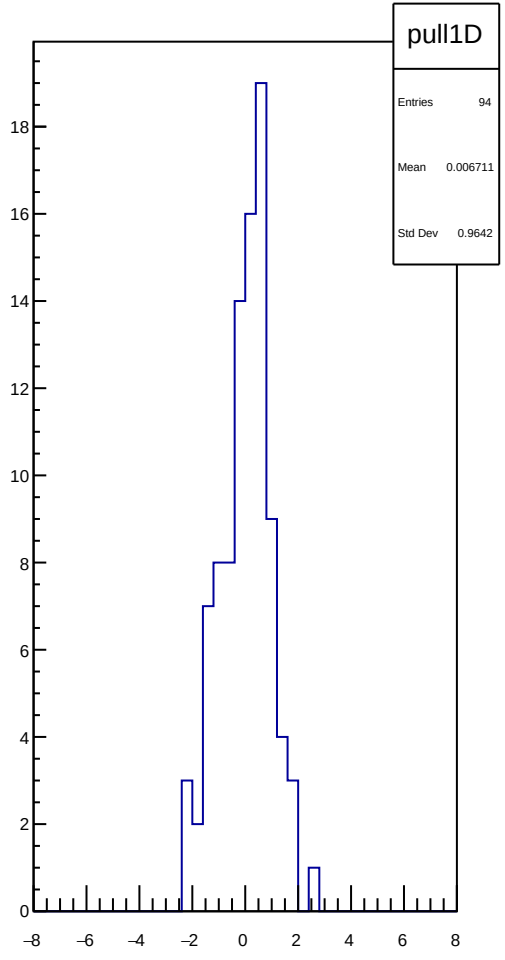

asym_dsl_rms vs run
χ^2 / ndf 182.5 / 93
p0 321.8 ± 0.2423
335
330
325
320
315

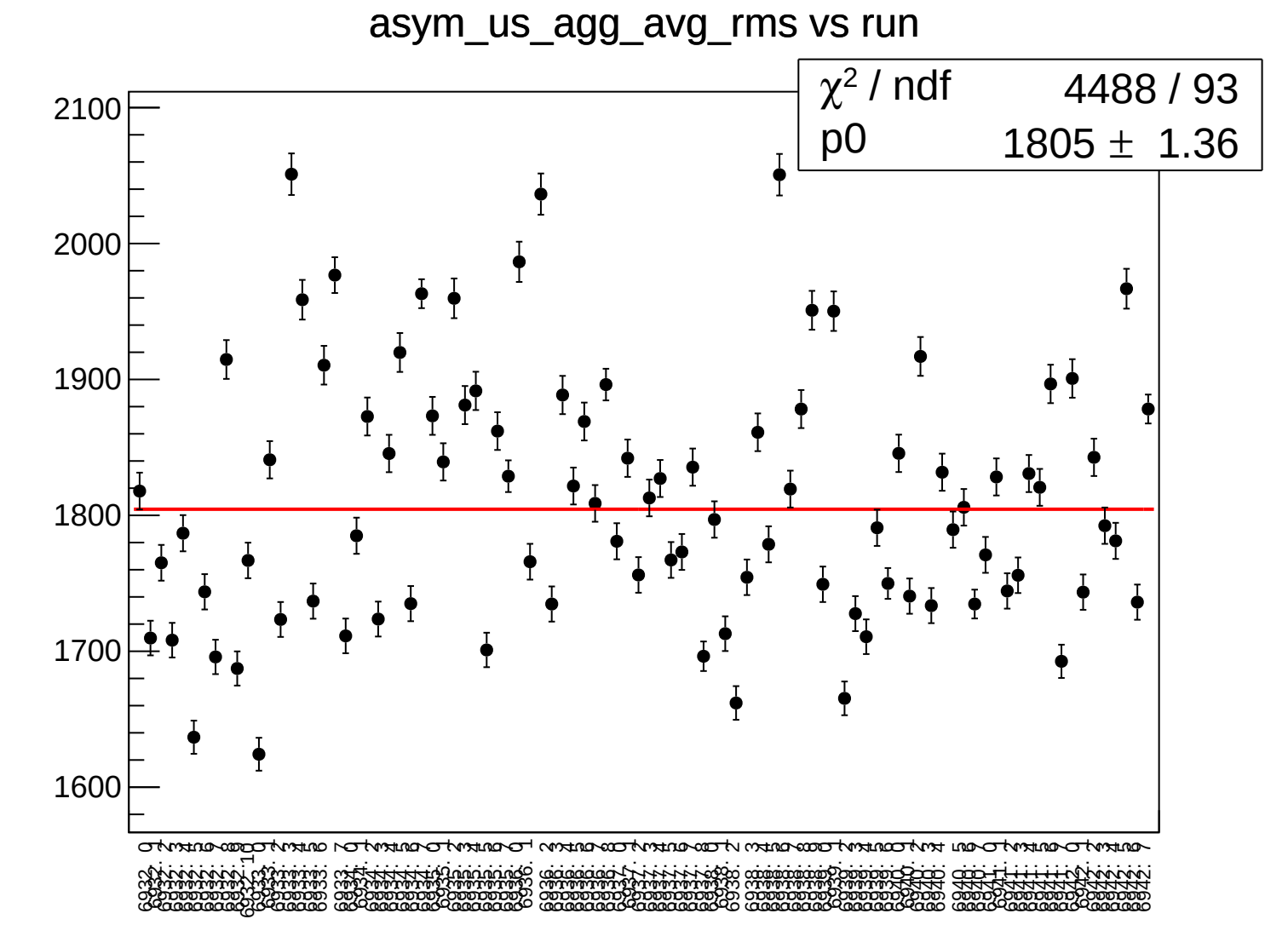

asym_dsr_mean vs run
χ² / ndf 86.38 / 93
p0 513.2 ± 403.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −2028
Std Dev 0
2
1
0
−1
−2

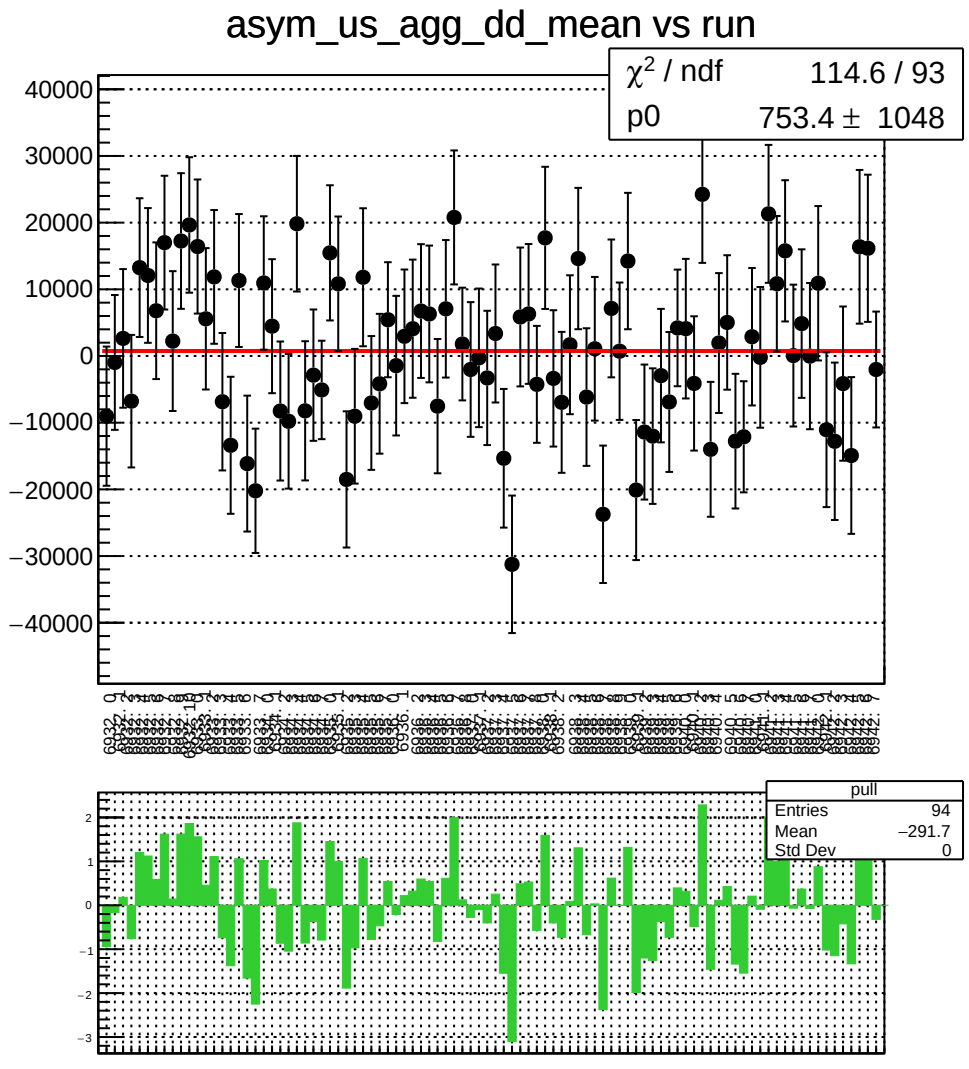

pull1D
Entries 94
Mean −0.0008308
Std Dev 0.9586
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

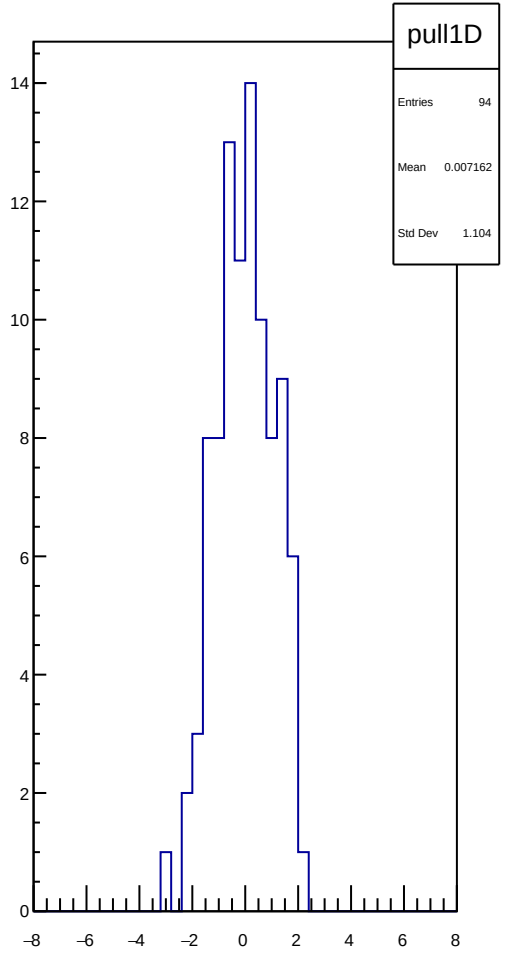

asym_dsr_rms vs run
χ² / ndf 276.6 / 93
p0 379.3 ± 0.2856
395
390
385
380
375
370
365

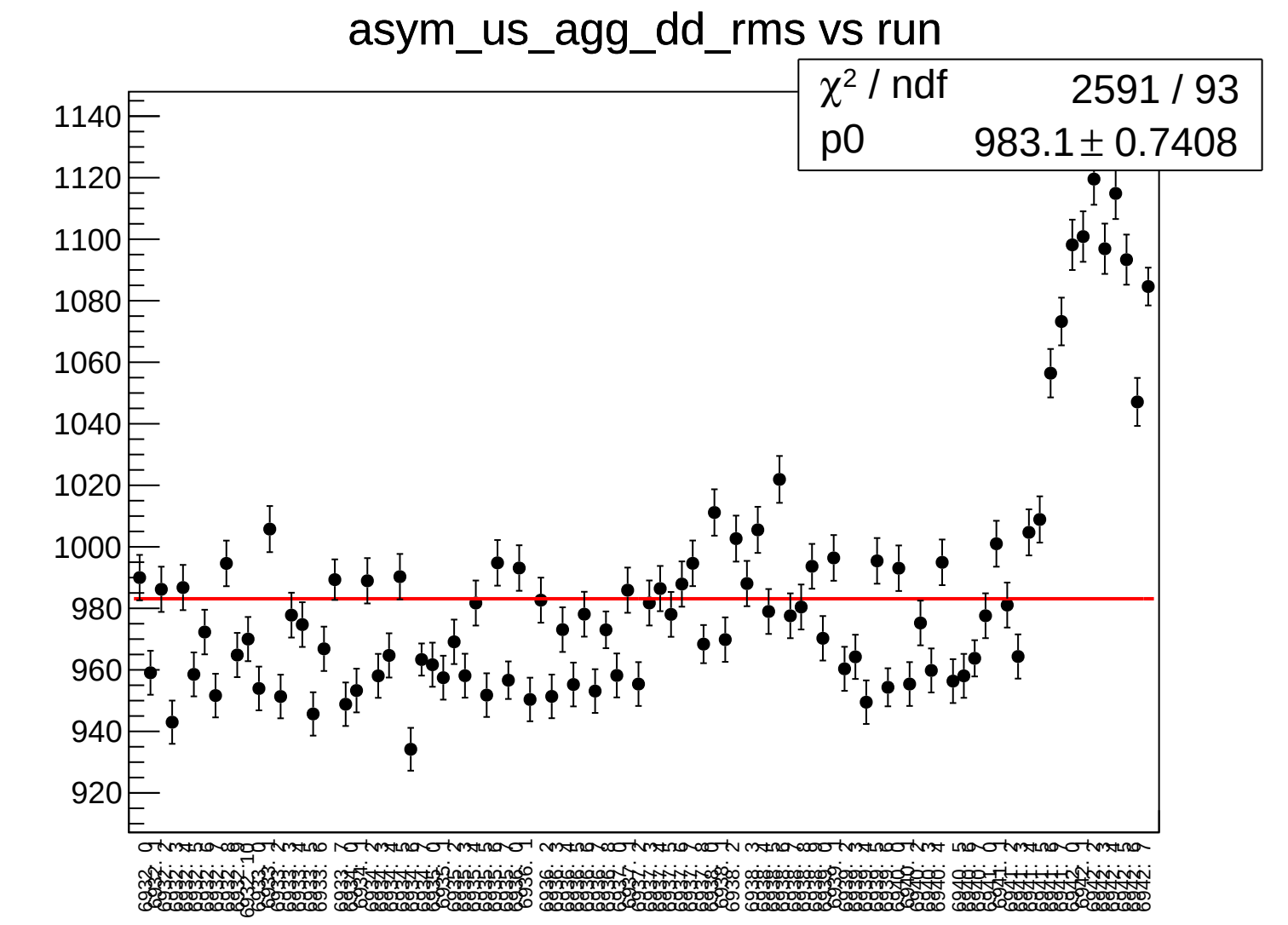

asym_us_agg_avg_mean vs run
χ² / ndf 87.4 / 93
p0 −2508 ± 1924
pull
Entries 94
Mean 715.7
Std Dev 0

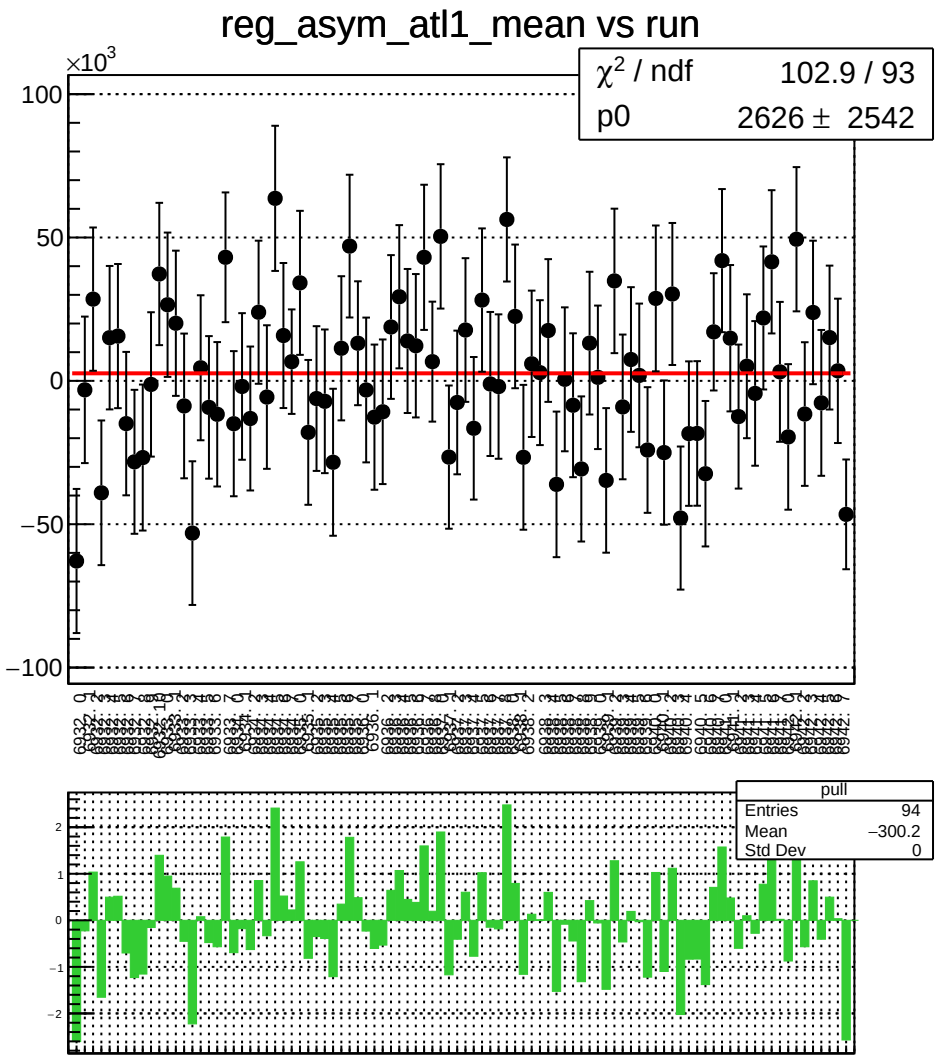

pull1D
Entries 94
Mean 0.006711
Std Dev 0.9642

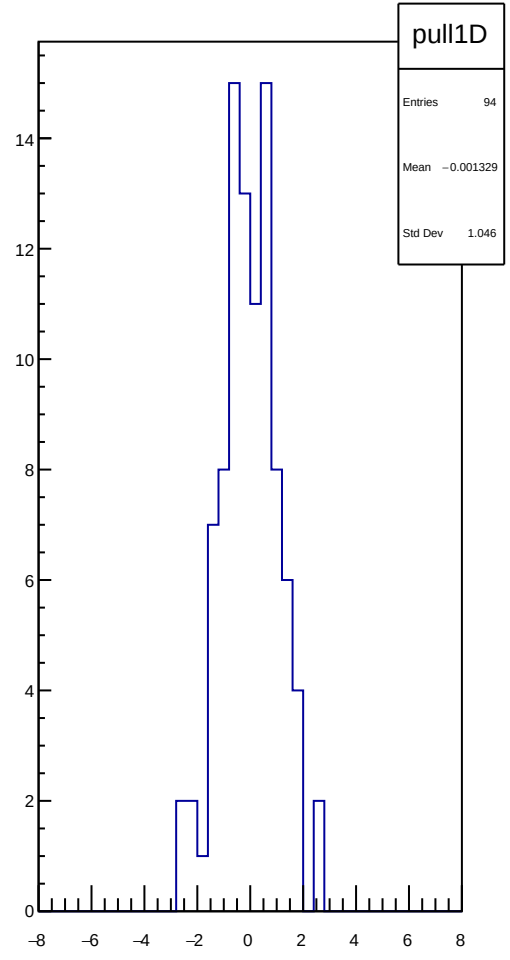

asym_us_agg_avg_rms vs run
χ² / ndf 4488 / 93
p0 1805 ± 1.36
2100
2000
1900
1800
1700
1600

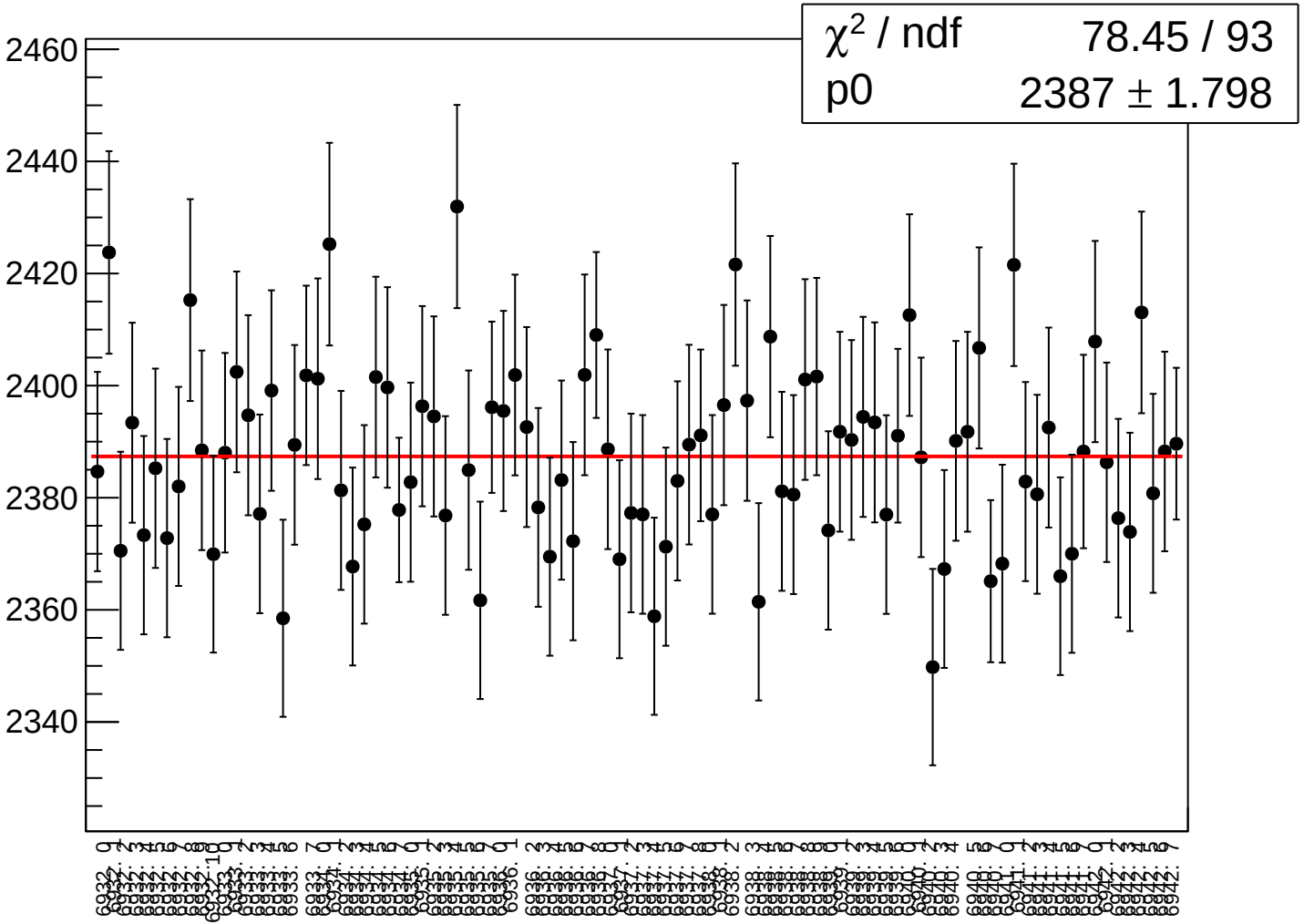

asym_us_agg_dd_mean vs run
χ² / ndf 114.6 / 93
p0 753.4 ± 1048
pull
Entries 94
Mean −291.7
Std Dev 0

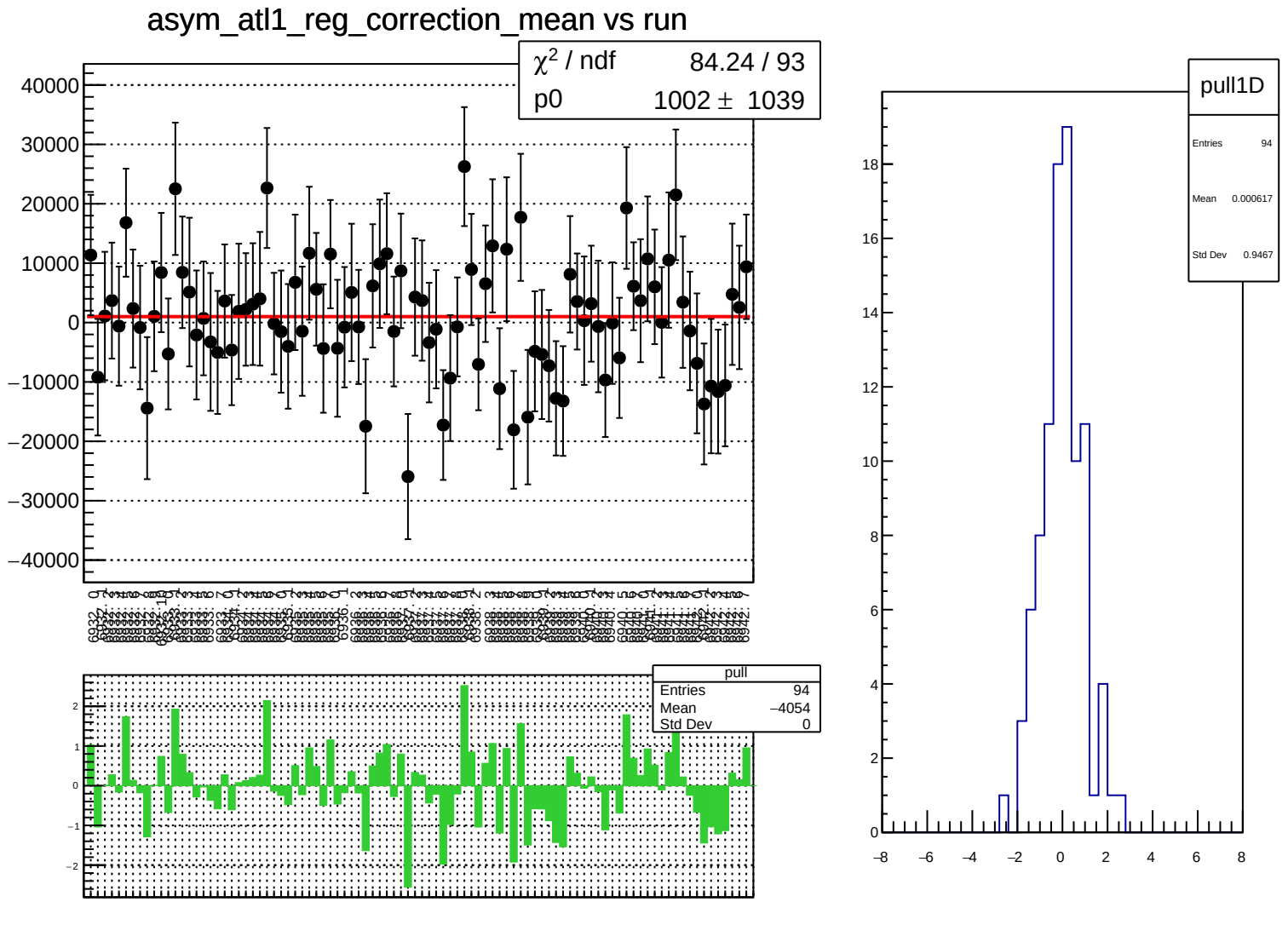

pull1D
Entries 94
Mean 0.007162
Std Dev 1.104

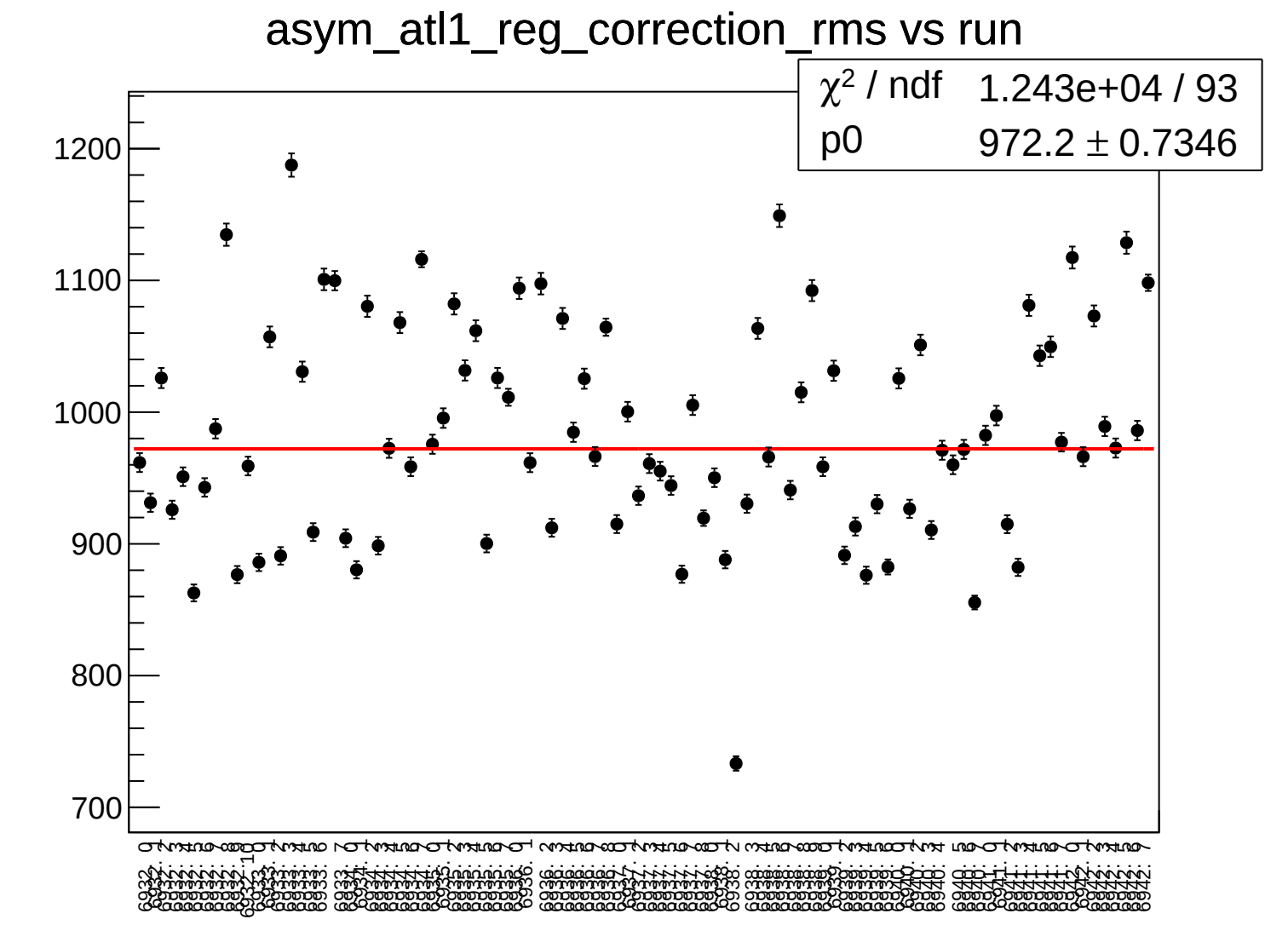

asym_us_agg_dd_rms vs run
χ² / ndf 2591 / 93
p0 983.1 ± 0.7408
1140
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

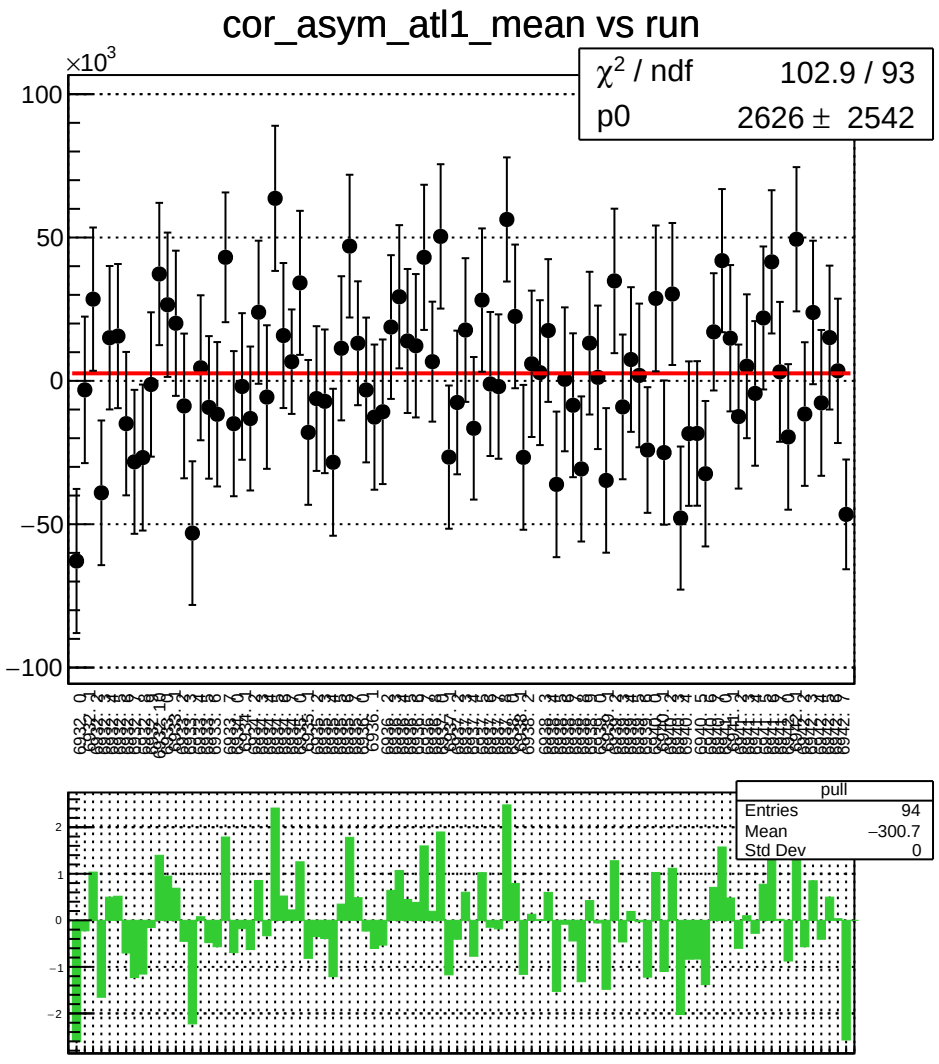

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 102.9 / 93
p0 2626 ± 2542
pull
Entries 94
Mean −300.2
Std Dev 0

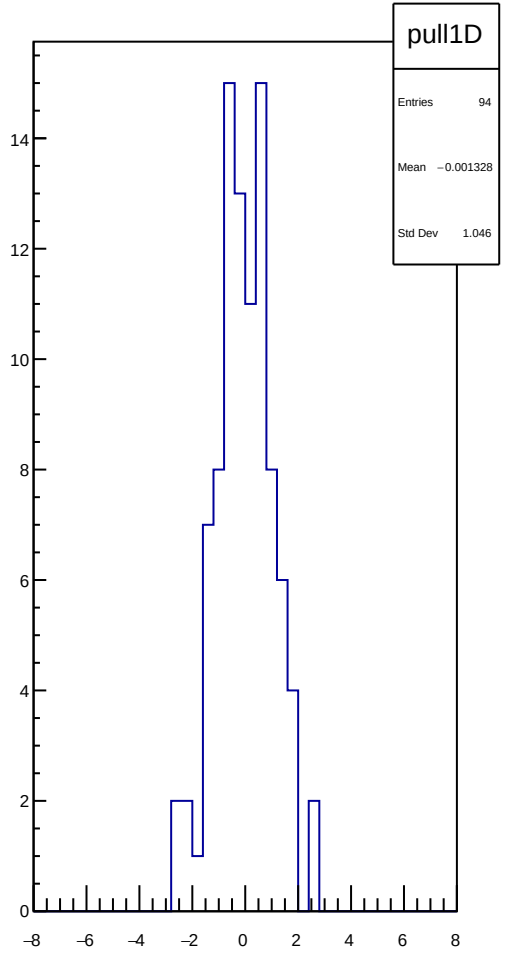

pull1D
Entries 94
Mean −0.001329
Std Dev 1.046

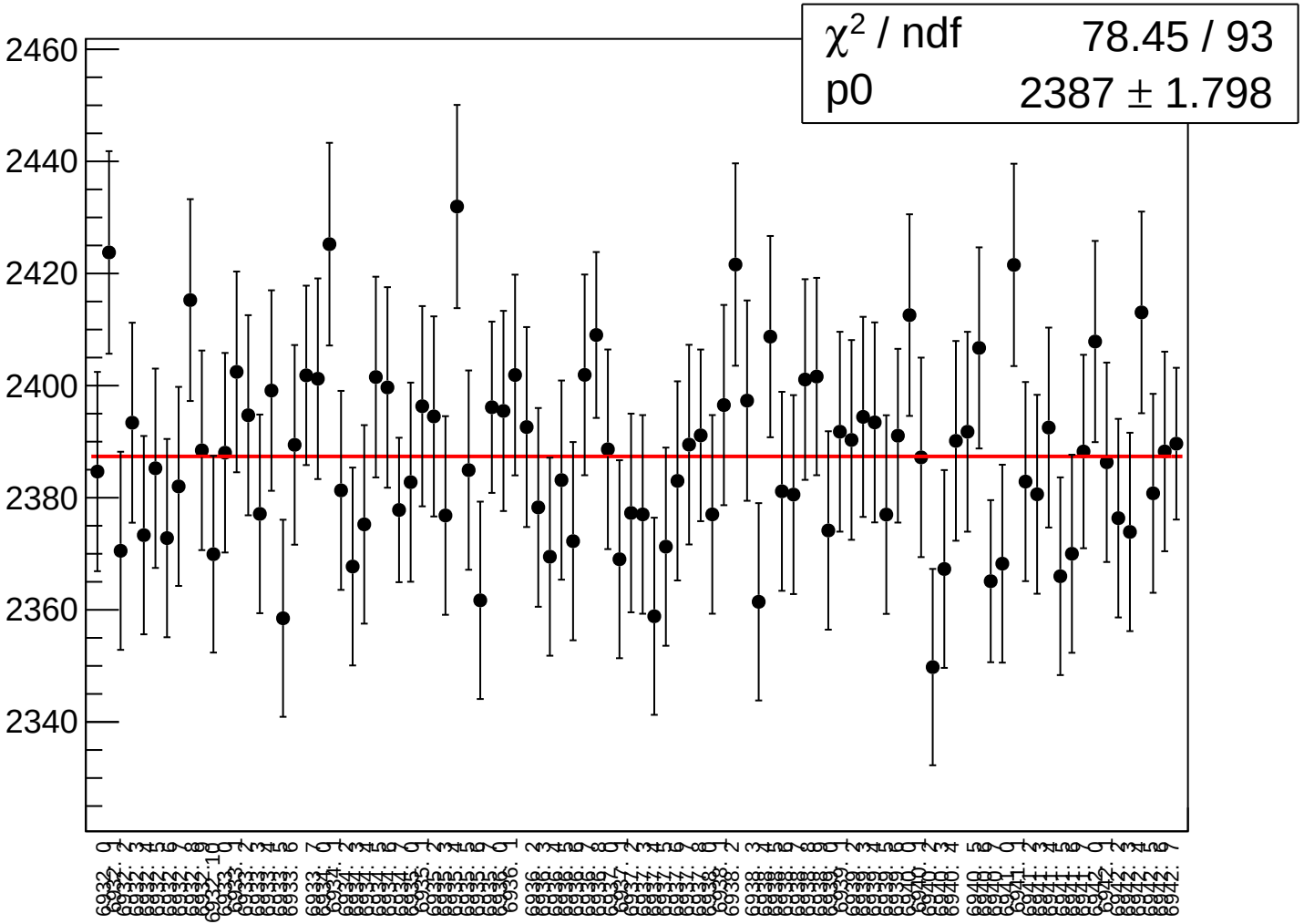

reg_asym_atl1_rms vs run
χ² / ndf 78.45 / 93
p0 2387 ± 1.798
2460
2440
2420
2400
2380
2360
2340

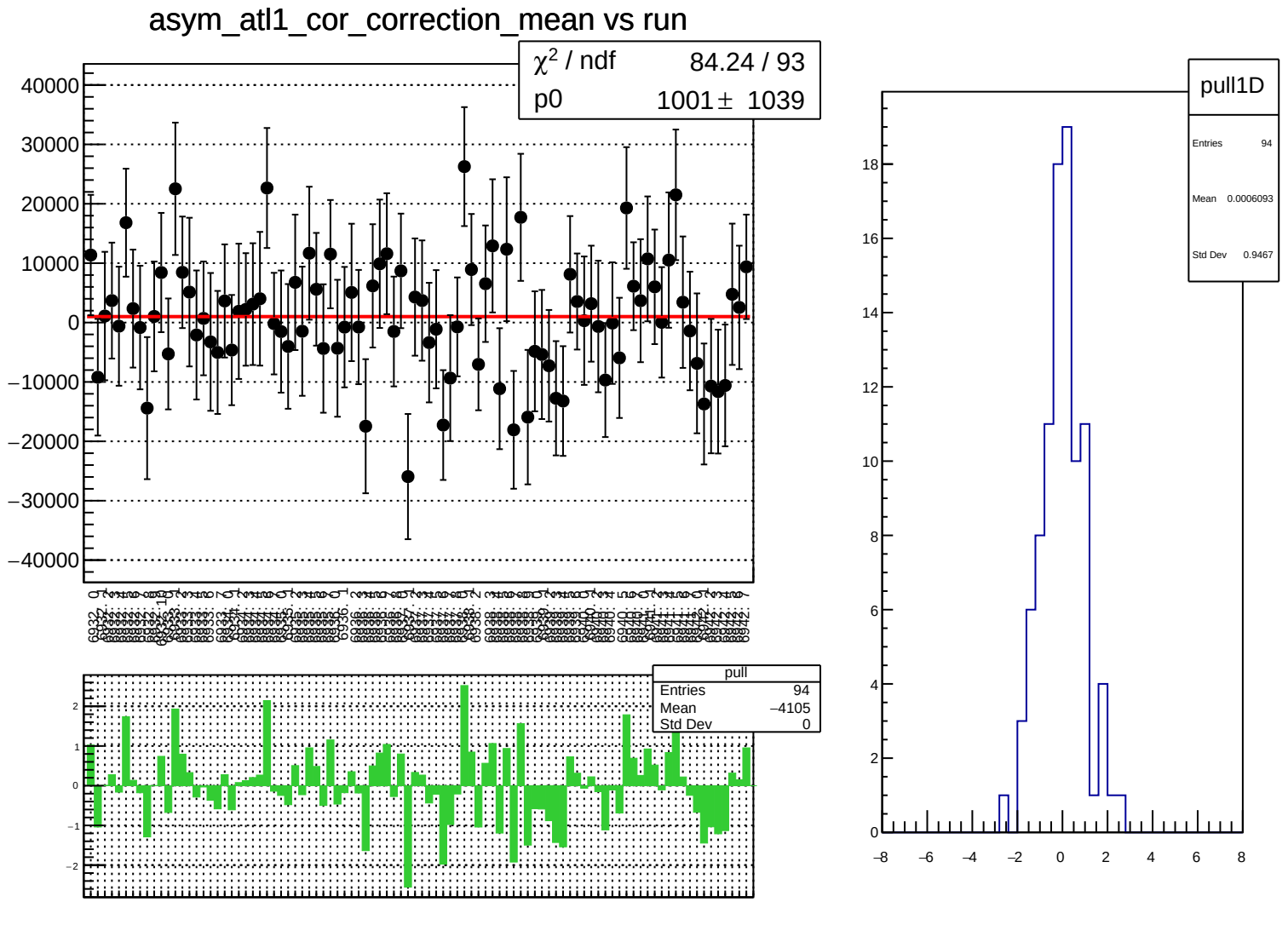

asym_atl1_reg_correction_mean vs run
χ² / ndf 84.24 / 93
p0 1002 ± 1039
pull
Entries 94
Mean −4054
Std Dev 0
pull1D
Entries 94
Mean 0.000617
Std Dev 0.9467

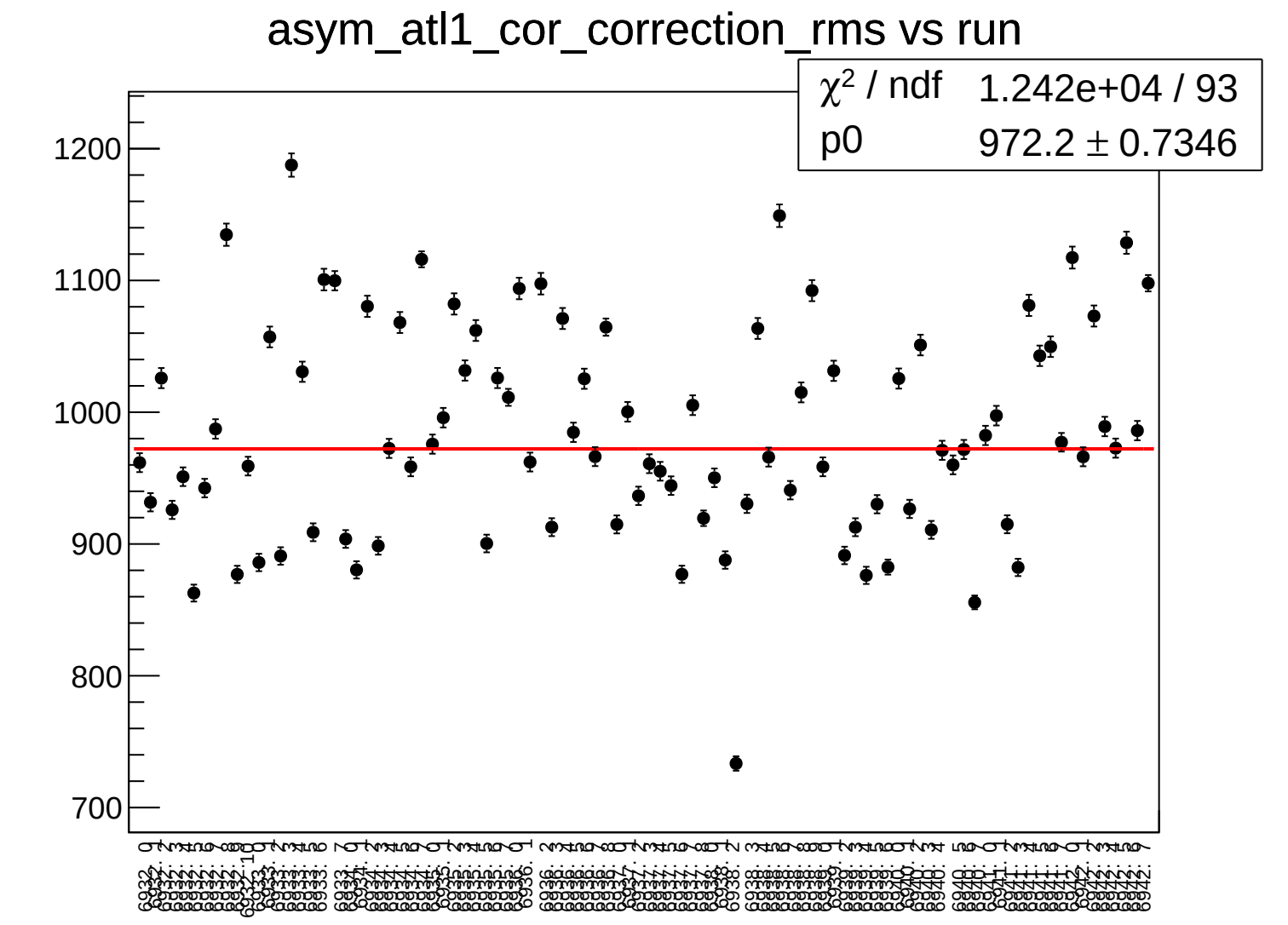

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.243e+04 / 93
p0 972.2 ± 0.7346
1200
1100
1000
900
800
700

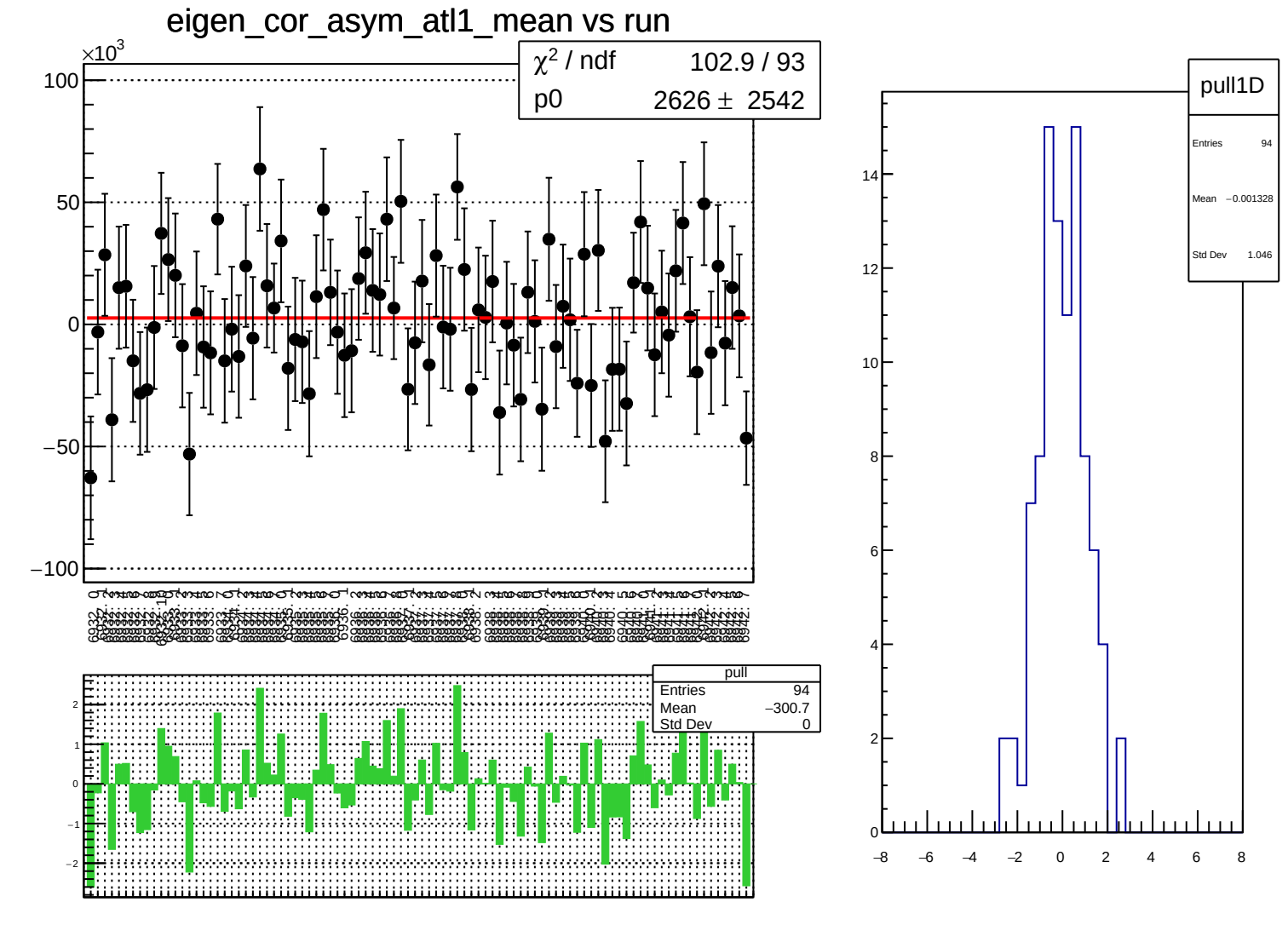

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 102.9 / 93
p0 2626 ± 2542
100
50
0
−50
−100
pull
Entries 94
Mean −300.7
Std Dev 0
2
1
0
−1
−2

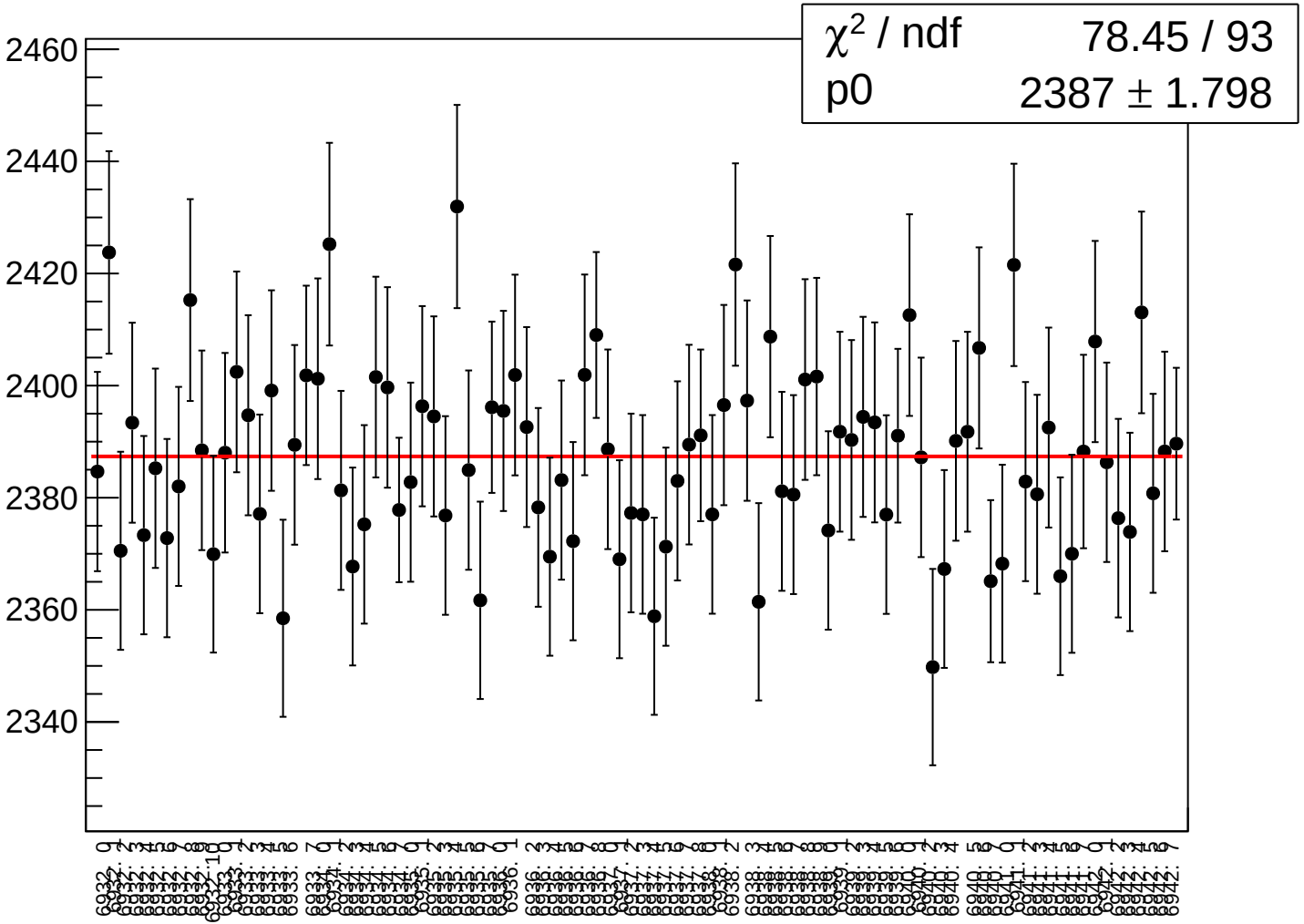

pull1D
Entries 94
Mean −0.001328
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

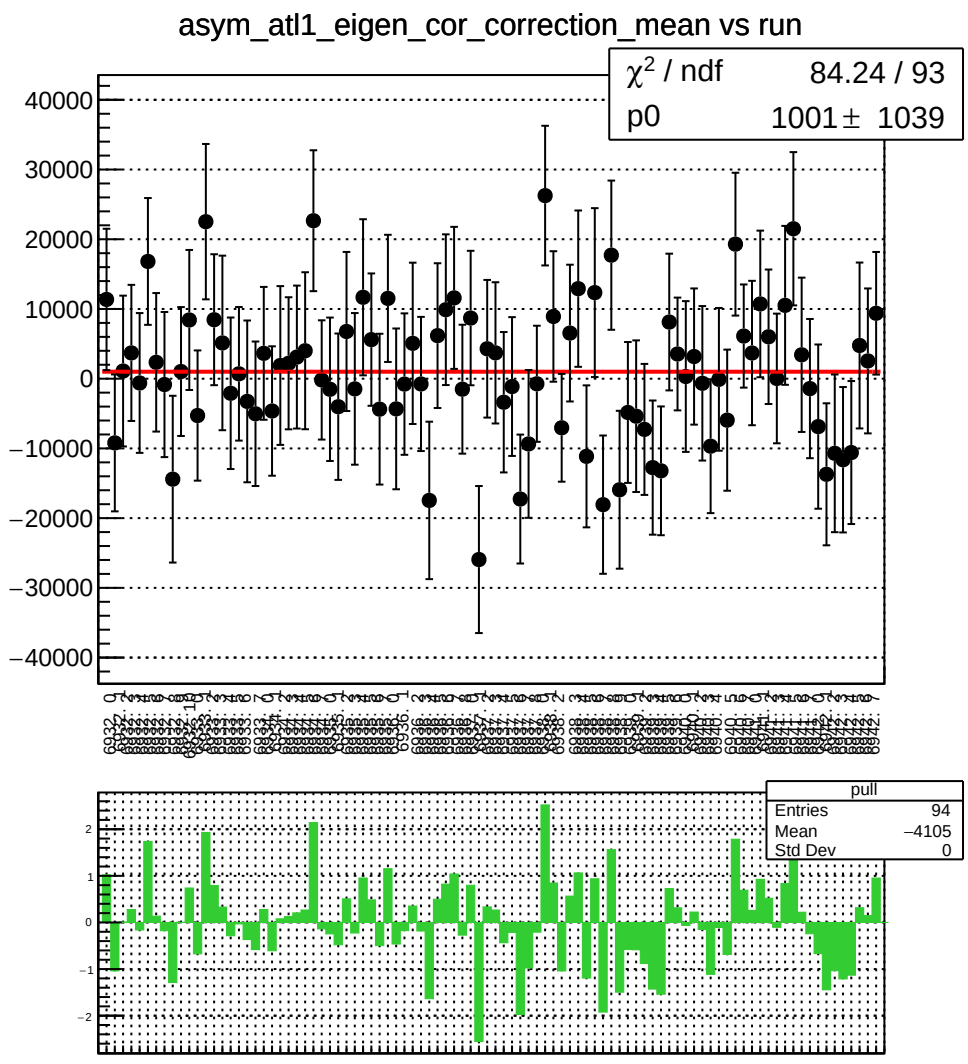

cor_asym_atl1_rms vs run
χ² / ndf 78.45 / 93
p0 2387 ± 1.798
2460
2440
2420
2400
2380
2360
2340

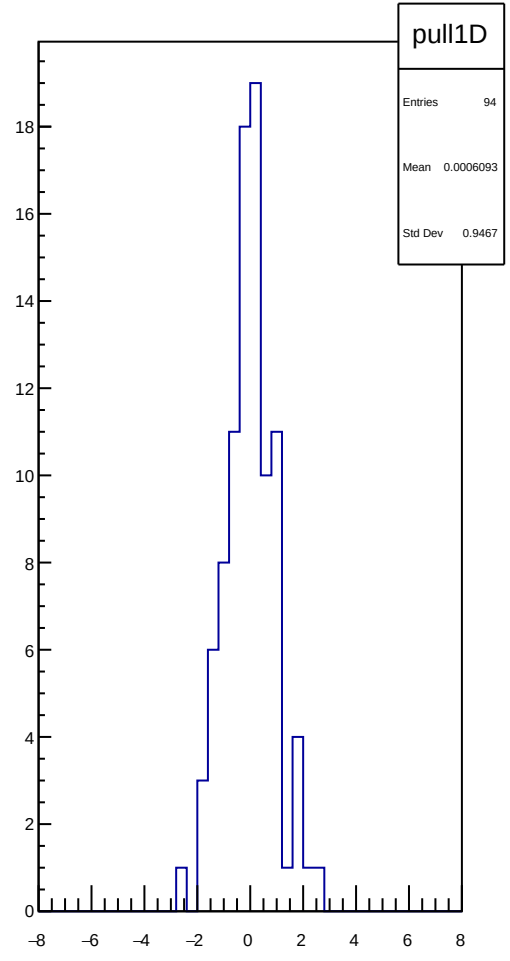

asym_atl1_cor_correction_mean vs run
χ² / ndf 84.24 / 93
p0 1001 ± 1039
pull
Entries 94
Mean −4105
Std Dev 0
pull1D
Entries 94
Mean 0.0006093
Std Dev 0.9467

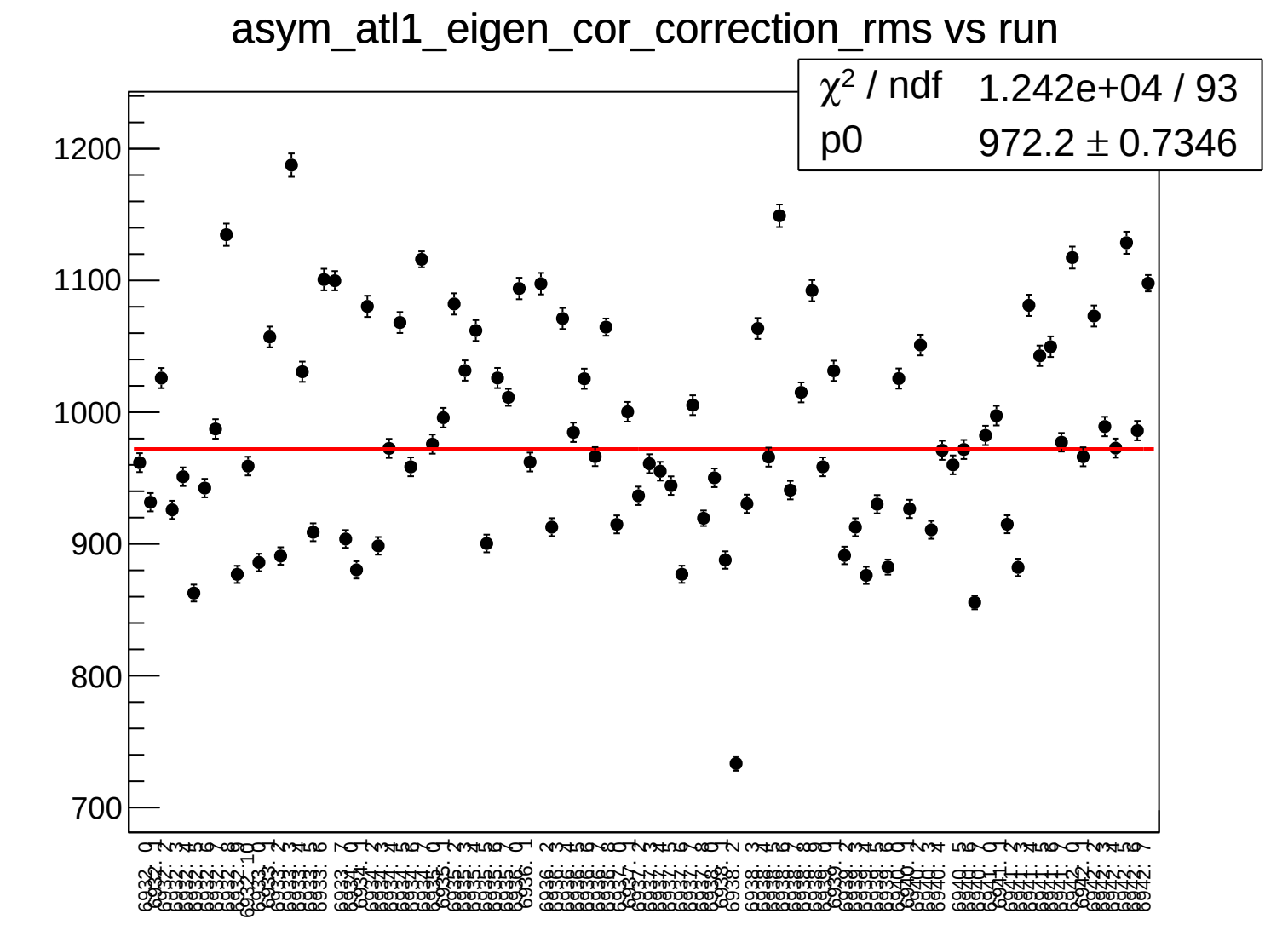

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.242e+04 / 93
p0 972.2 ± 0.7346
1200
1100
1000
900
800
700

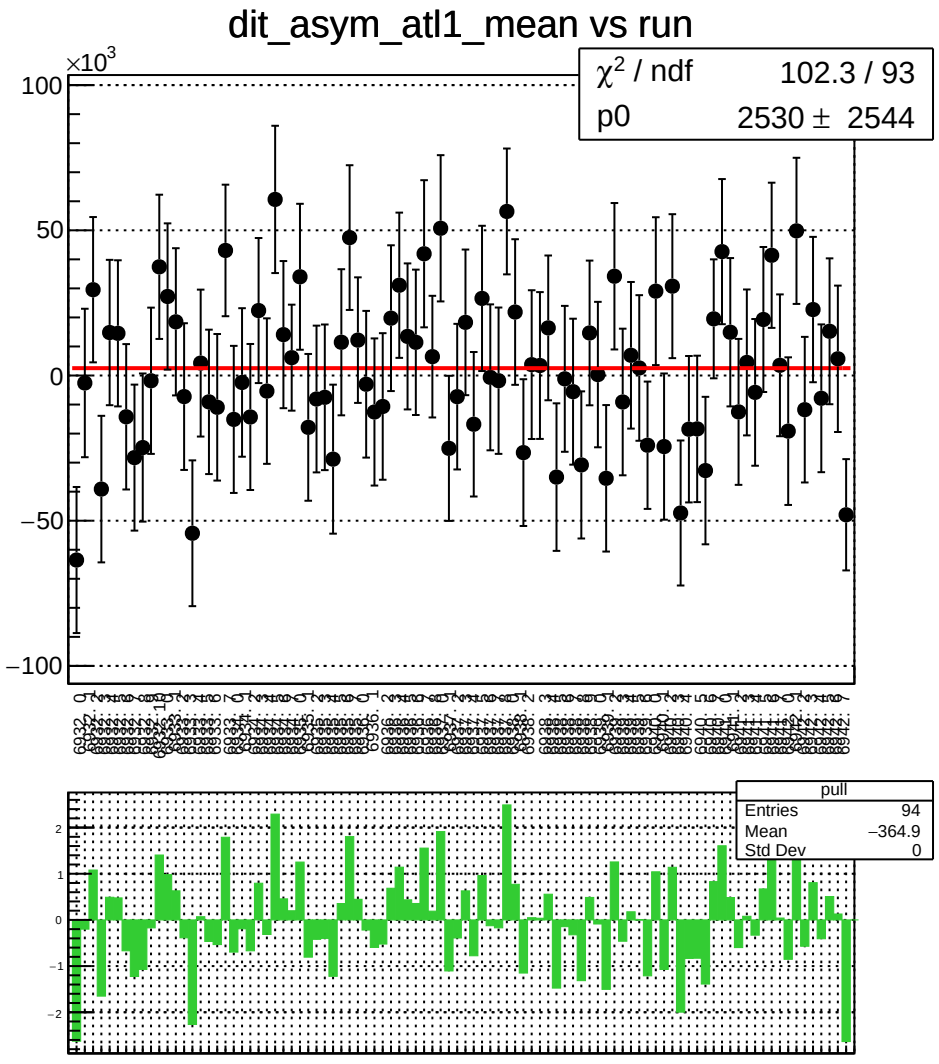

eigen_cor_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 102.9 / 93
p0 2626 ± 2542
pull
Entries 94
Mean −300.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001328
Std Dev 1.046
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

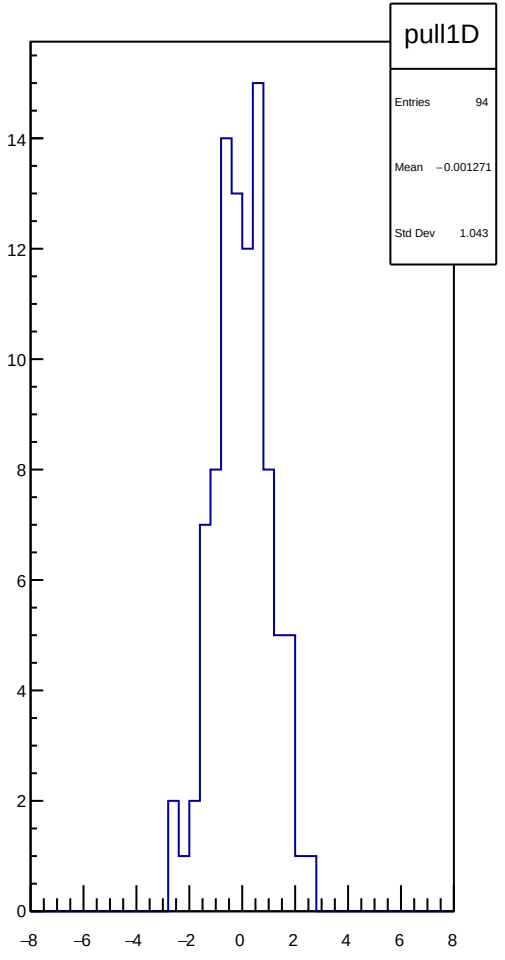

eigen_cor_asym_atl1_rms vs run
χ² / ndf 78.45 / 93
p0 2387 ± 1.798
2460
2440
2420
2400
2380
2360
2340

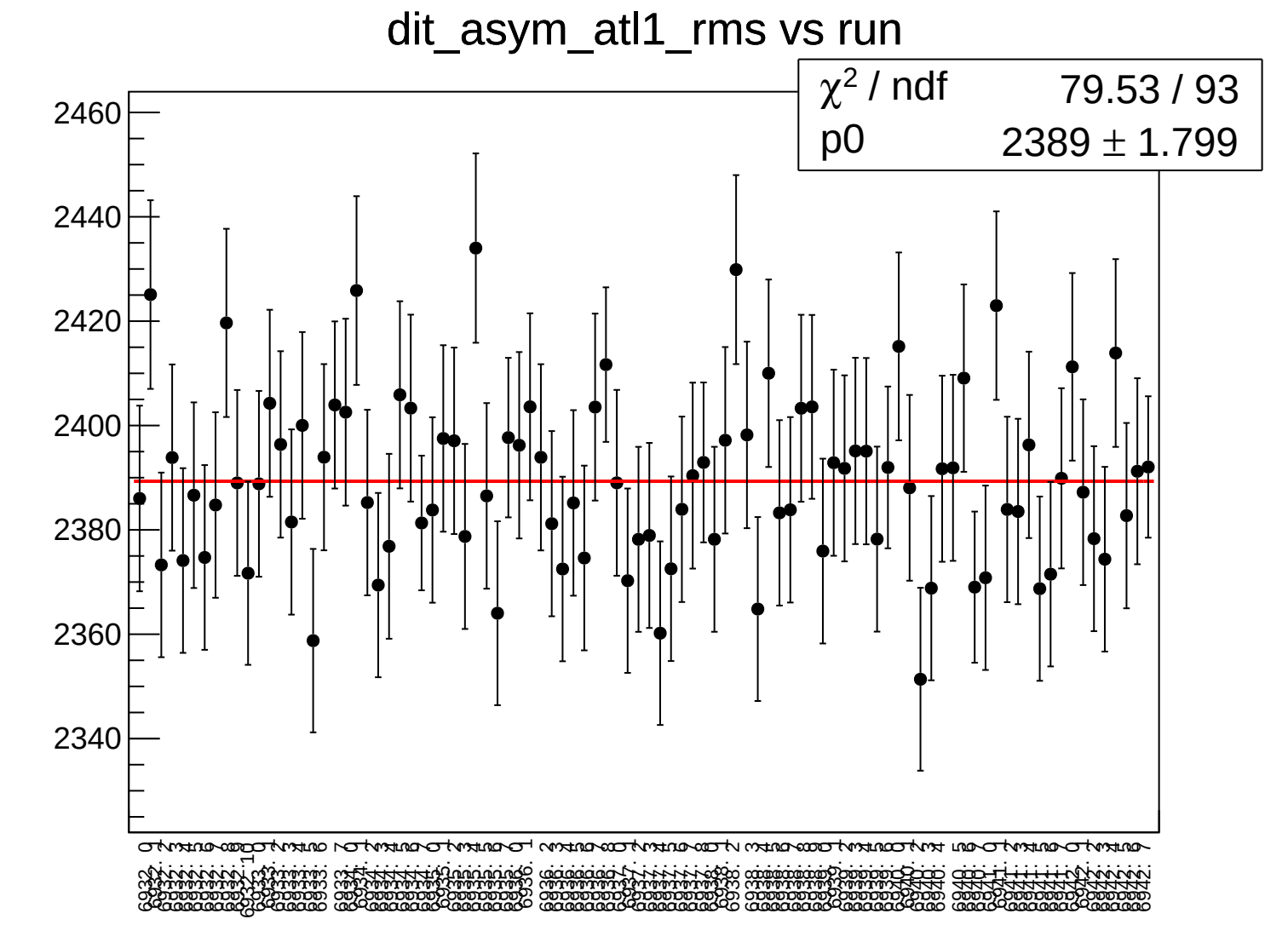

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 84.24 / 93
p0 1001 ± 1039
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −4105
Std Dev 0
2
1
0
−1
−2

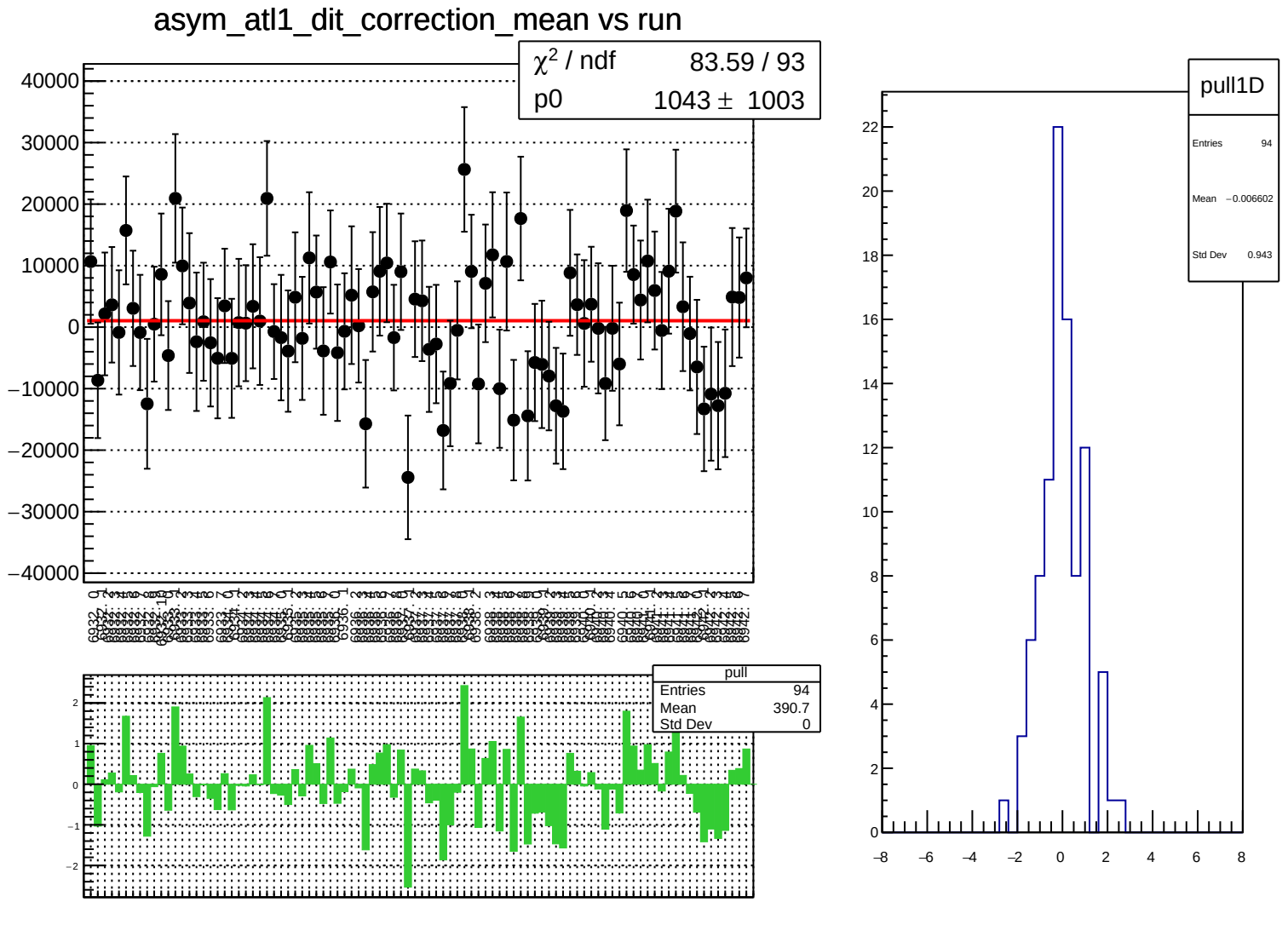

pull1D
Entries 94
Mean 0.0006093
Std Dev 0.9467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

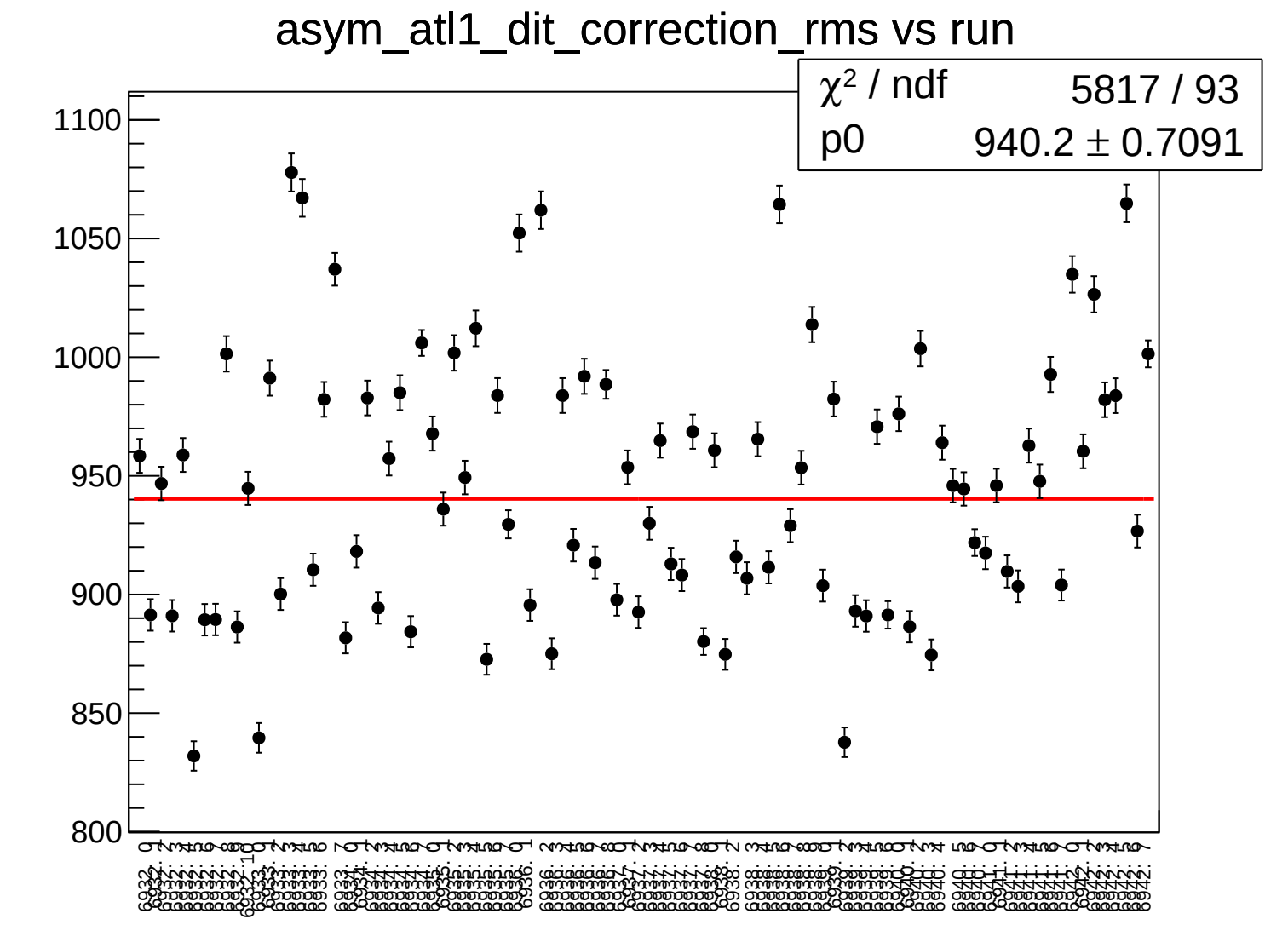

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.242e+04 / 93
p0 972.2 ± 0.7346
1200
1100
1000
900
800
700

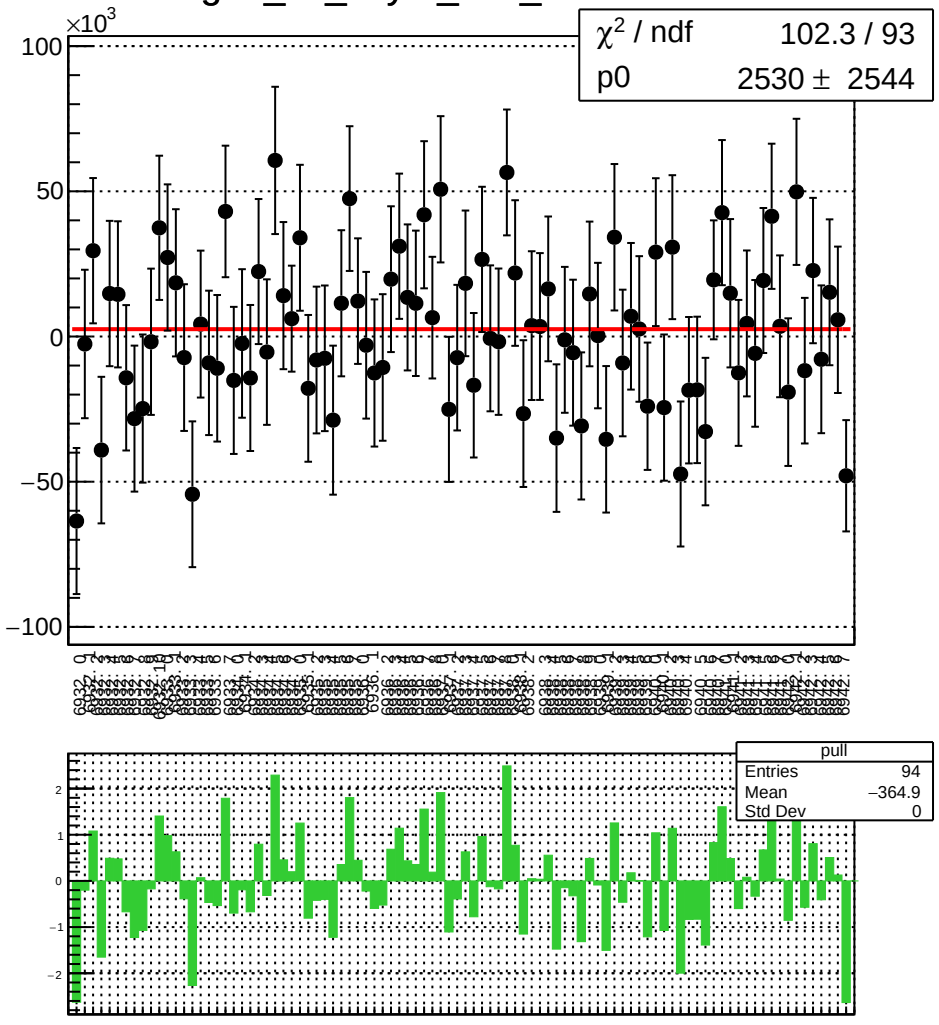

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 102.3 / 93
p0 2530 ± 2544
100
50
0
−50
−100
pull
Entries 94
Mean −364.9
Std Dev 0
2
1
0
−1
−2

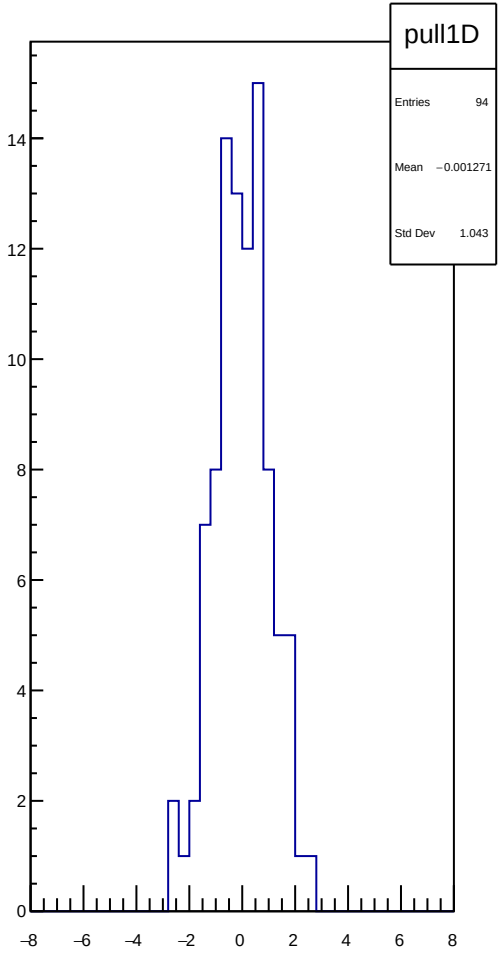

pull1D
Entries 94
Mean −0.001271
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

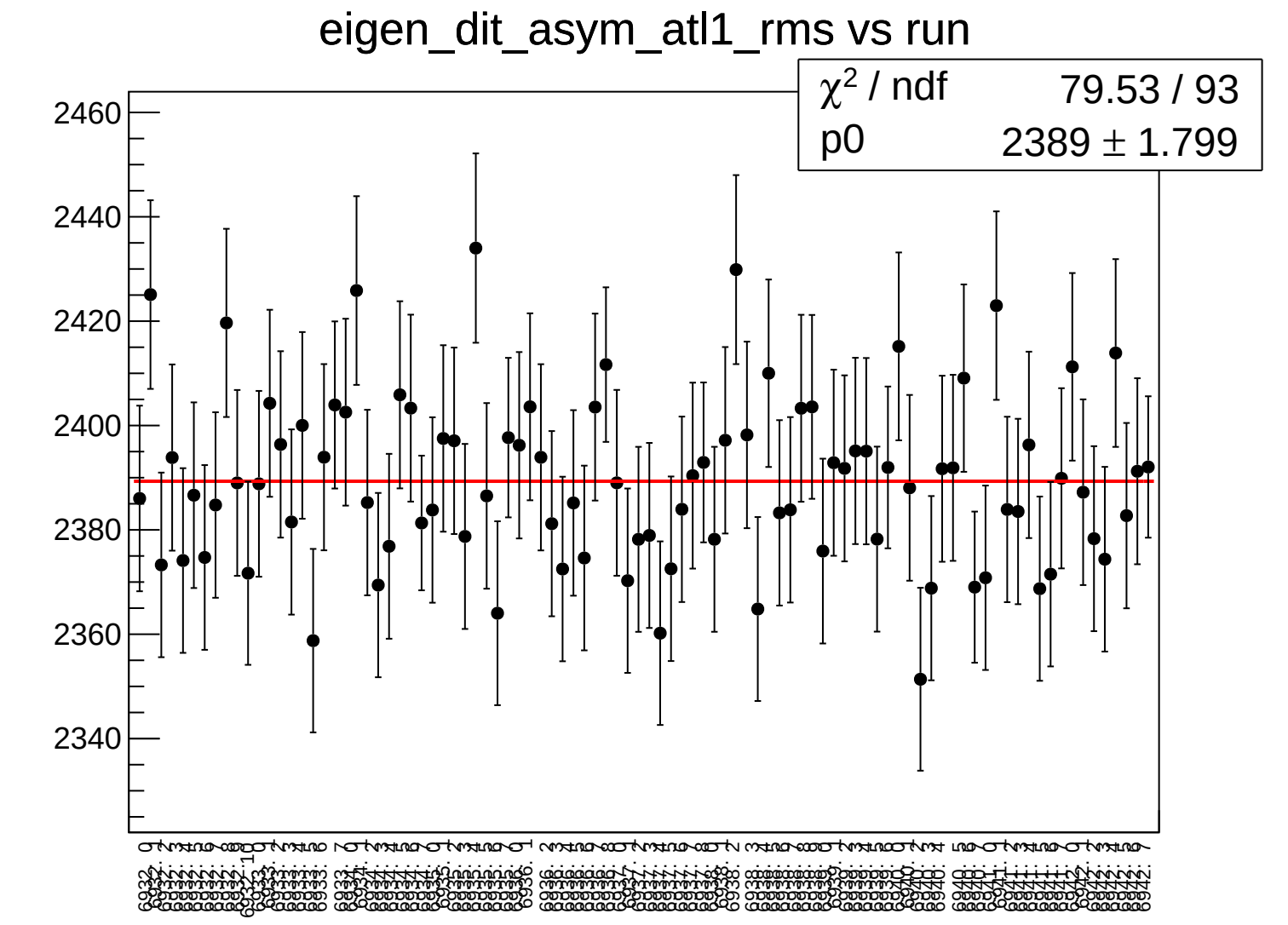

dit_asym_atl1_rms vs run
χ² / ndf 79.53 / 93
p0 2389 ± 1.799
2460
2440
2420
2400
2380
2360
2340

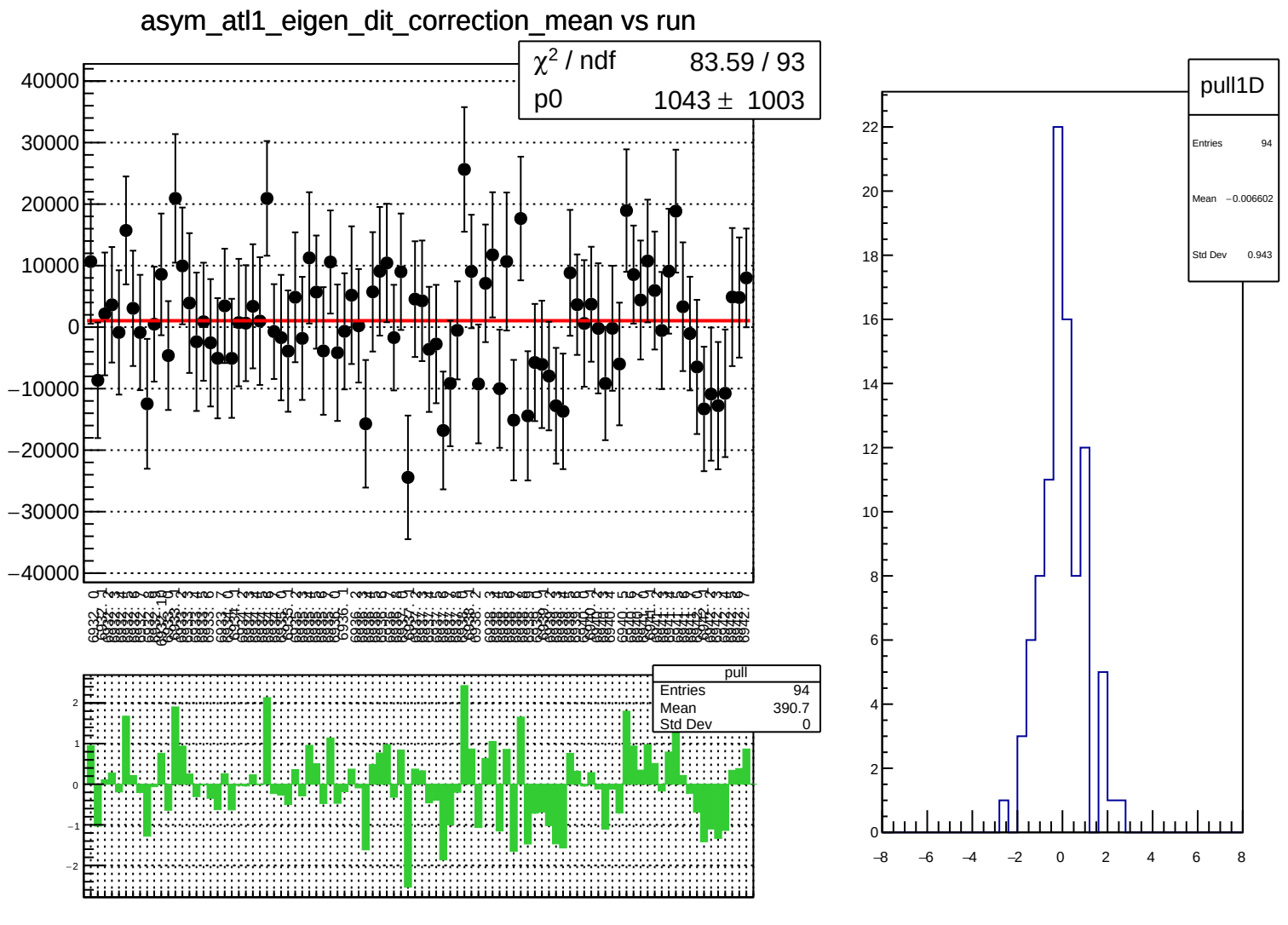

asym_atl1_dit_correction_mean vs run
χ² / ndf 83.59 / 93
p0 1043 ± 1003
pull
Entries 94
Mean 390.7
Std Dev 0
pull1D
Entries 94
Mean −0.006602
Std Dev 0.943

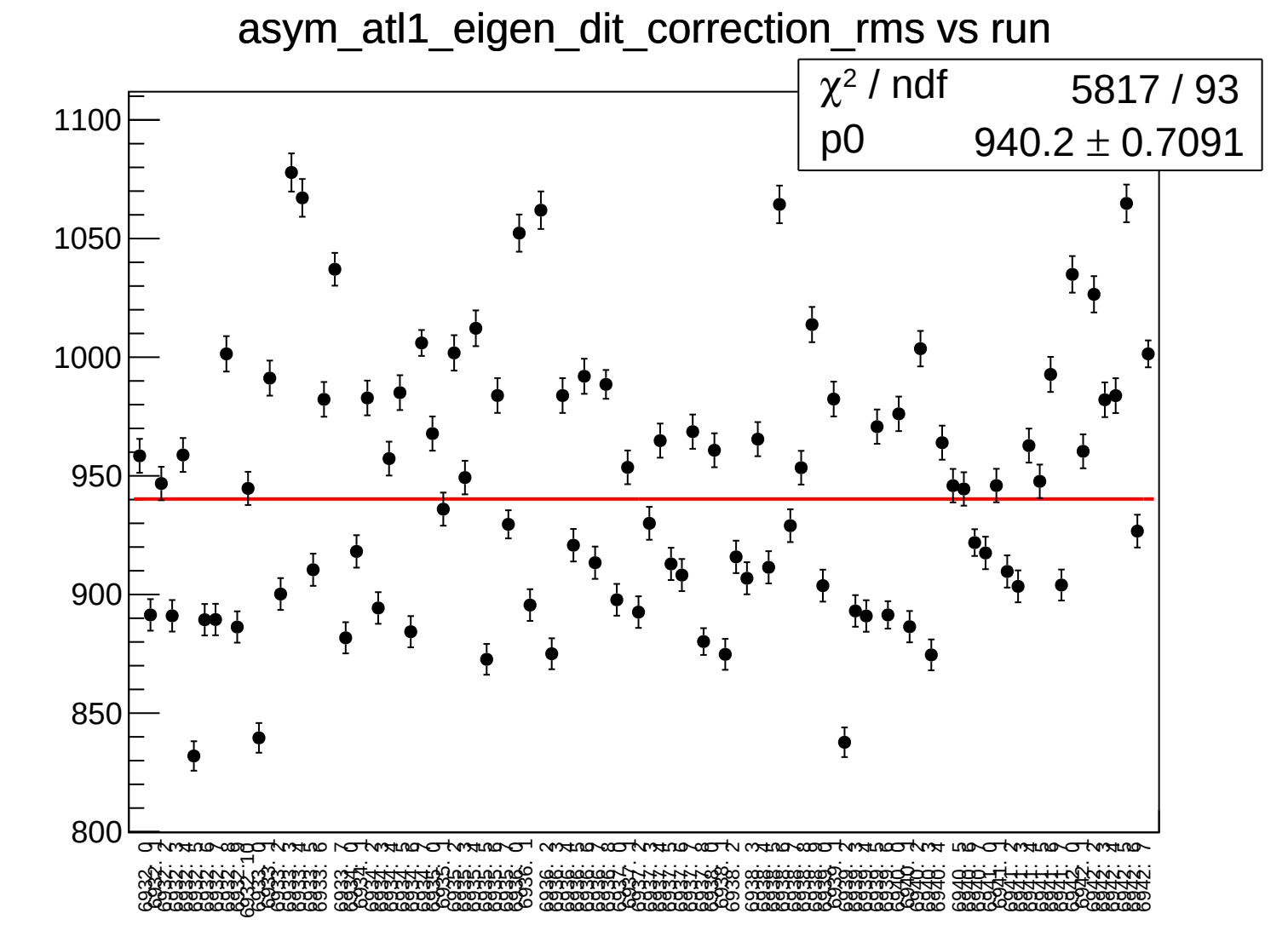

asym_atl1_dit_correction_rms vs run
χ² / ndf 5817 / 93
p0 940.2 ± 0.7091
1100
1050
1000
950
900
850
800

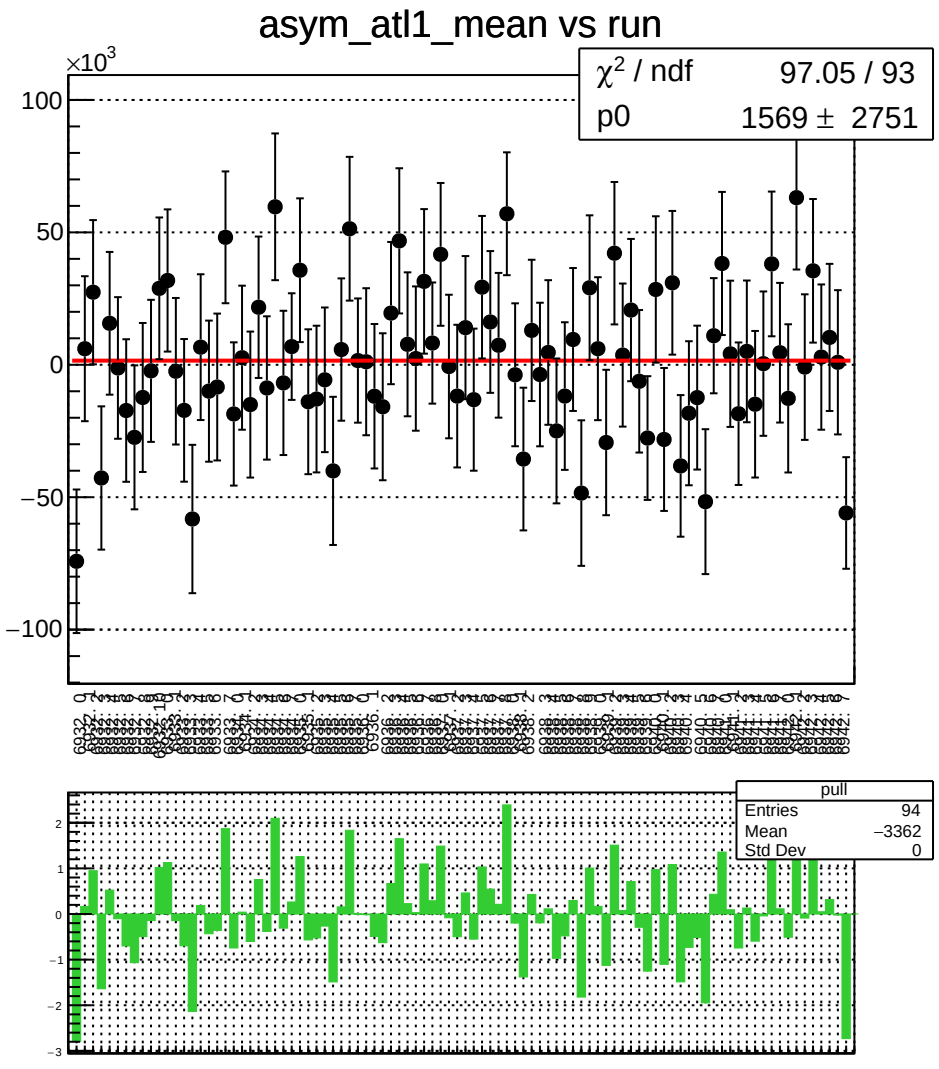

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 102.3 / 93
p0 2530 ± 2544
pull
Entries 94
Mean −364.9
Std Dev 0

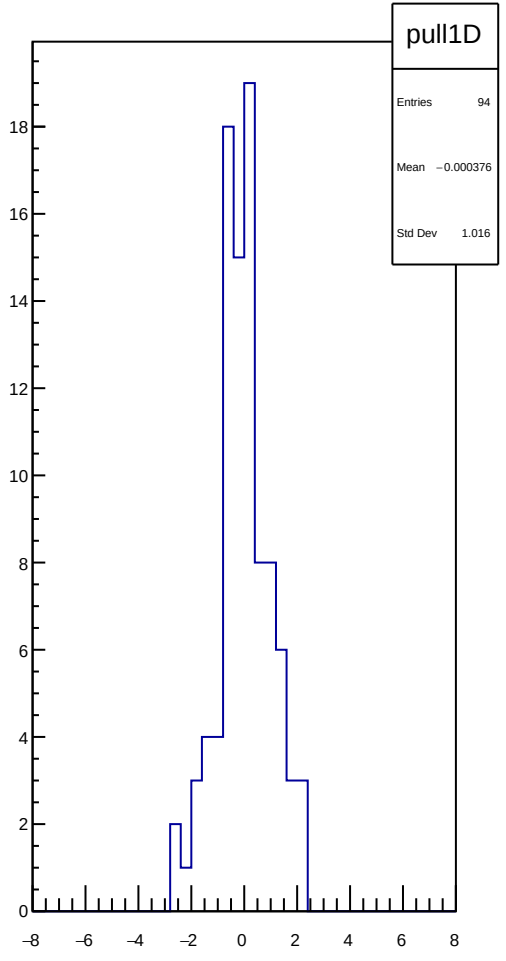

pull1D
Entries 94
Mean −0.001271
Std Dev 1.043

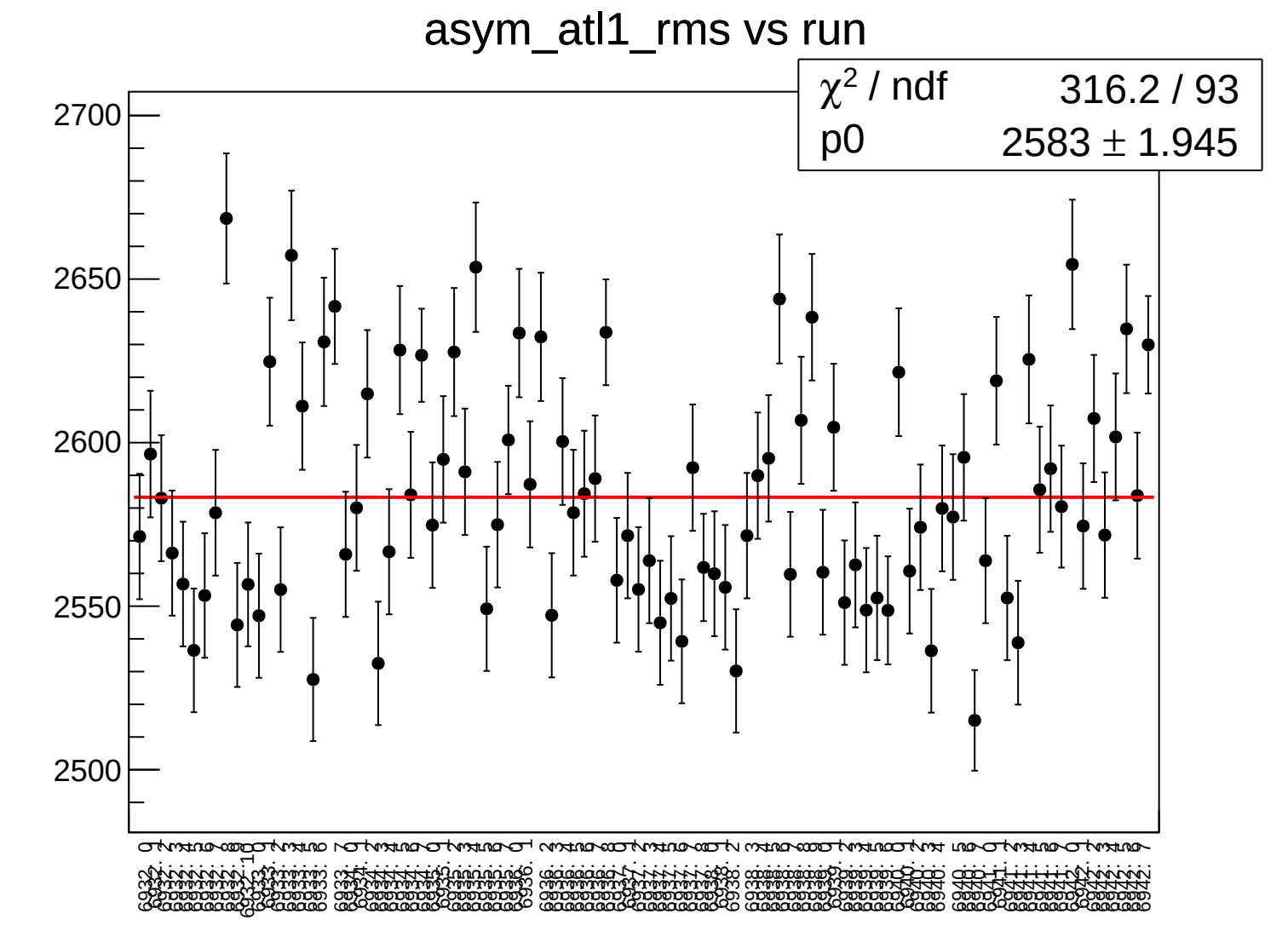

eigen_dit_asym_atl1_rms vs run
χ² / ndf 79.53 / 93
p0 2389 ± 1.799
2460
2440
2420
2400
2380
2360
2340

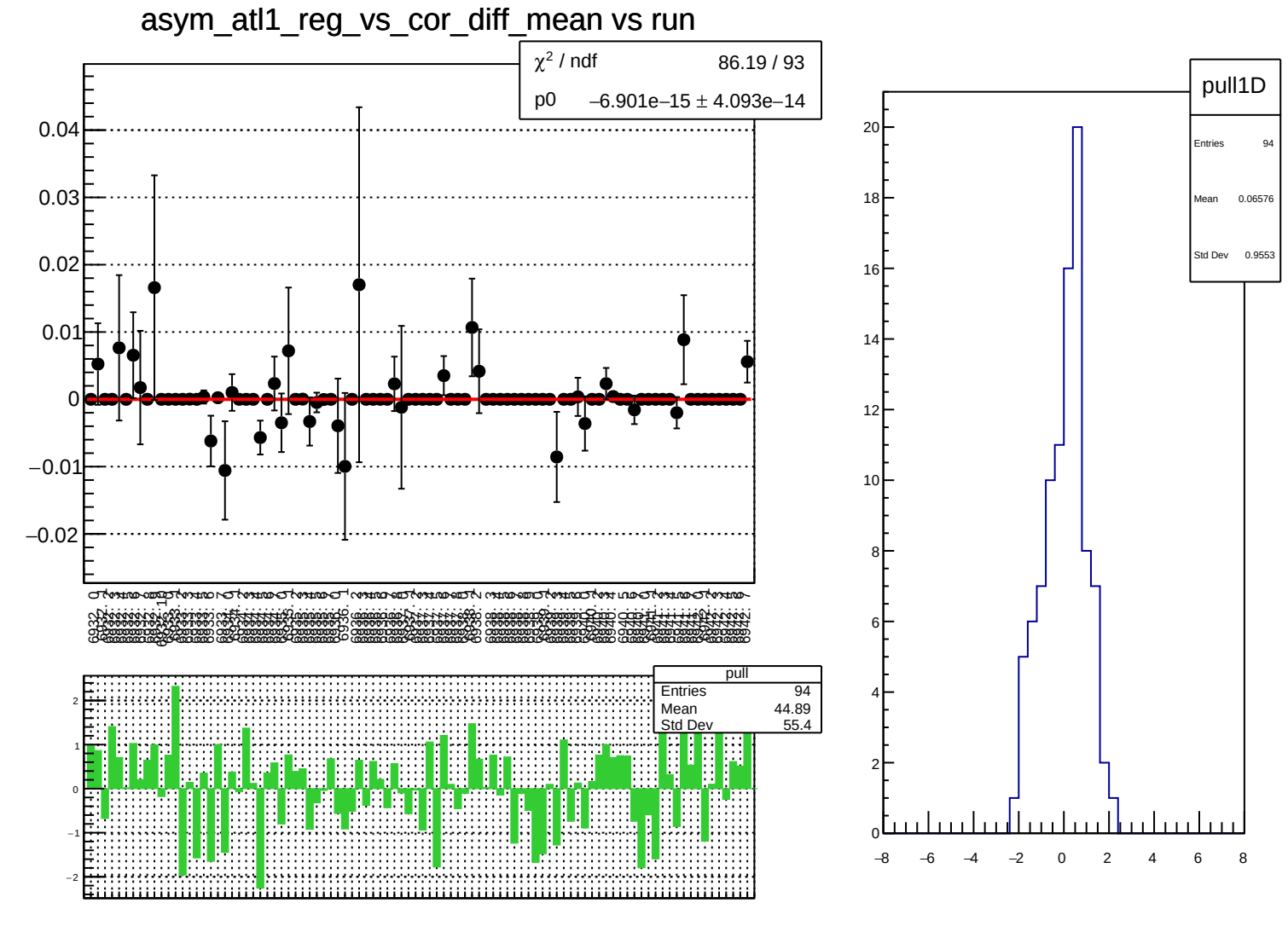

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 83.59 / 93
p0 1043 ± 1003
pull
Entries 94
Mean 390.7
Std Dev 0
pull1D
Entries 94
Mean −0.006602
Std Dev 0.943

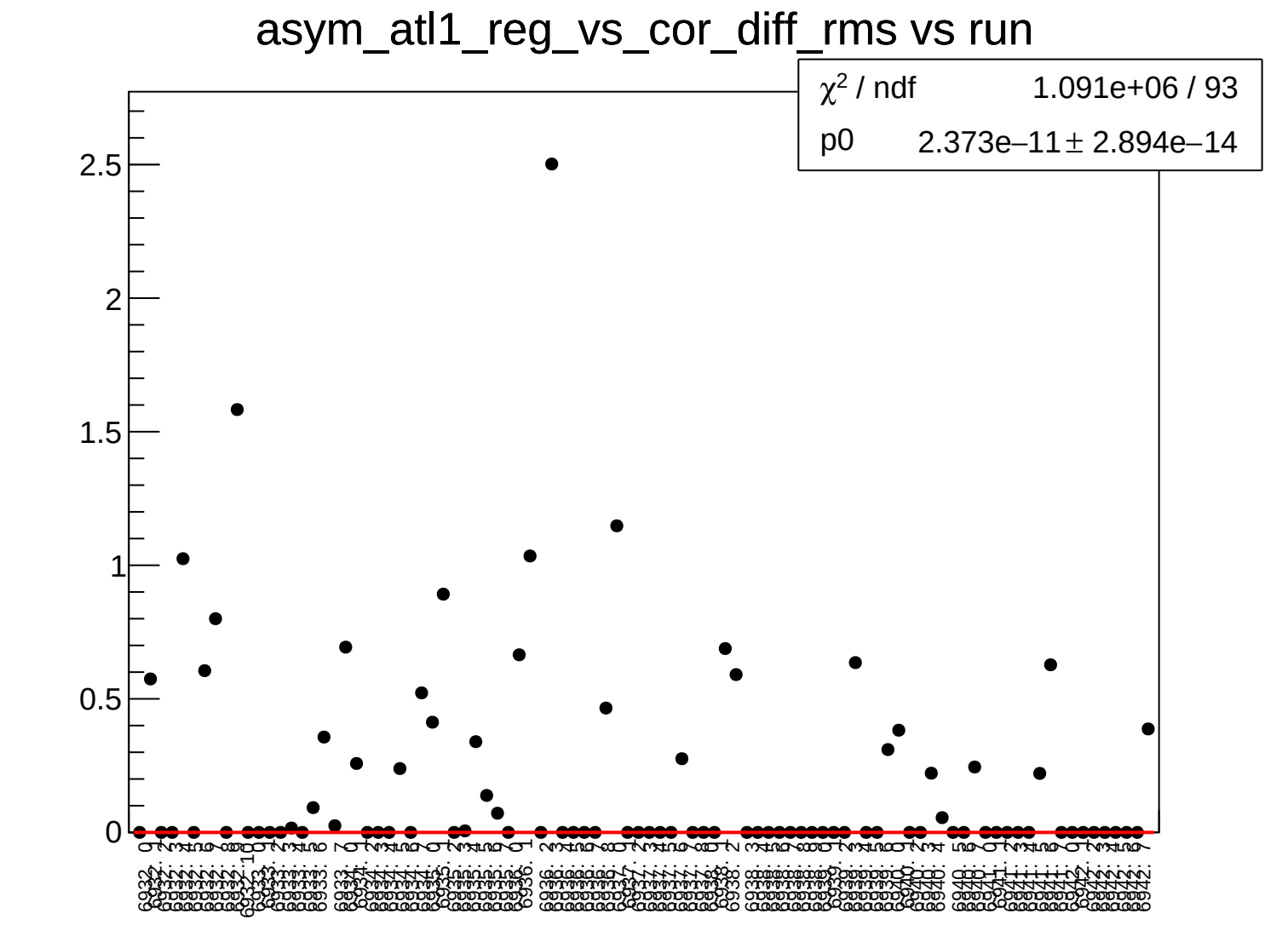

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 5817 / 93
p0 940.2 ± 0.7091
1100
1050
1000
950
900
850
800

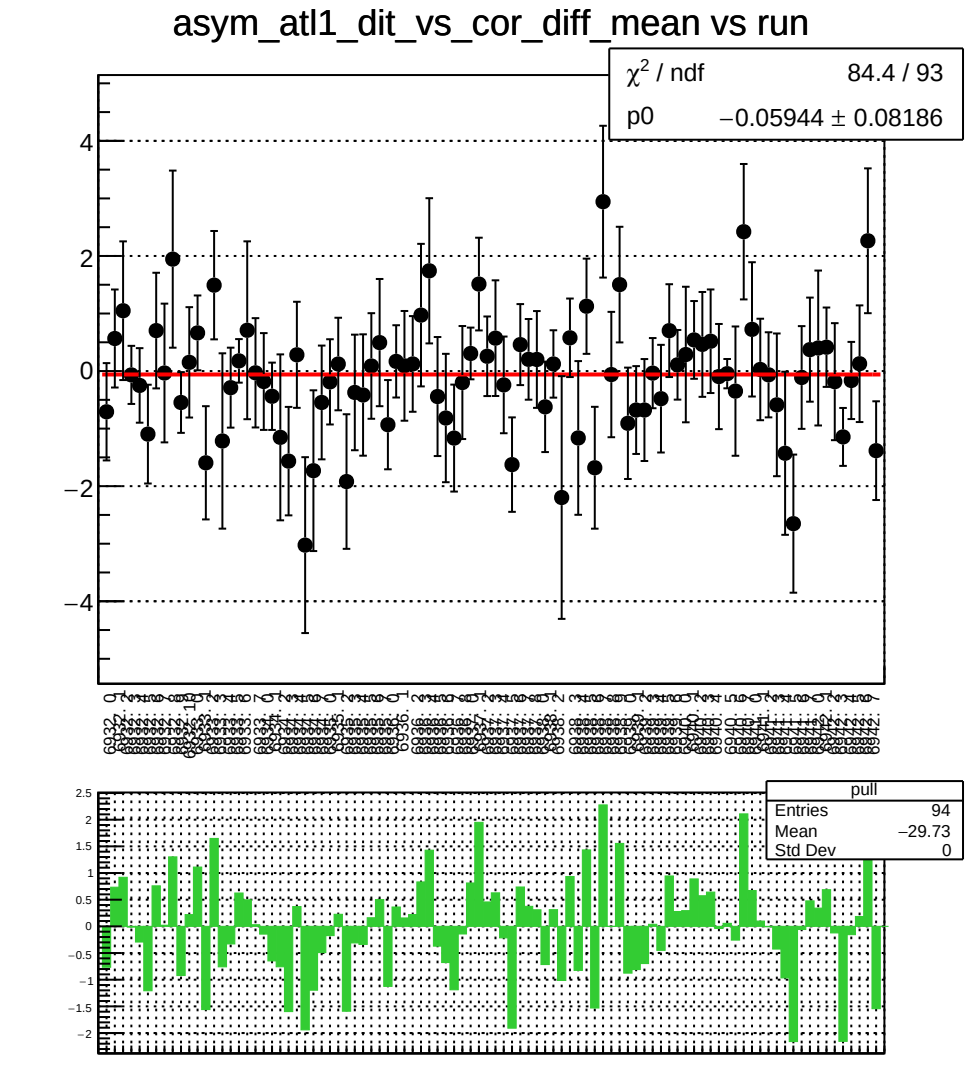

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 97.05 / 93
p0 1569 ± 2751
pull
Entries 94
Mean −3362
Std Dev 0
2
1
0
−1
−2
−3

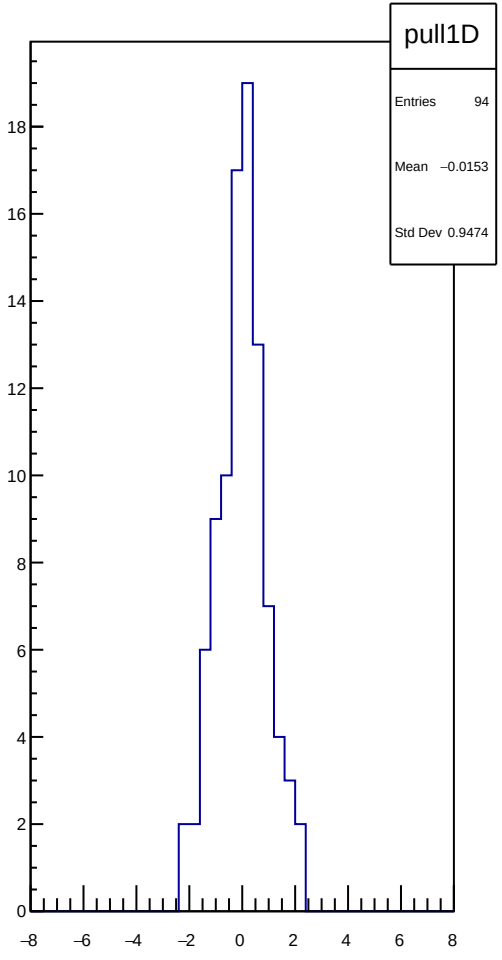

pull1D
Entries 94
Mean −0.000376
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

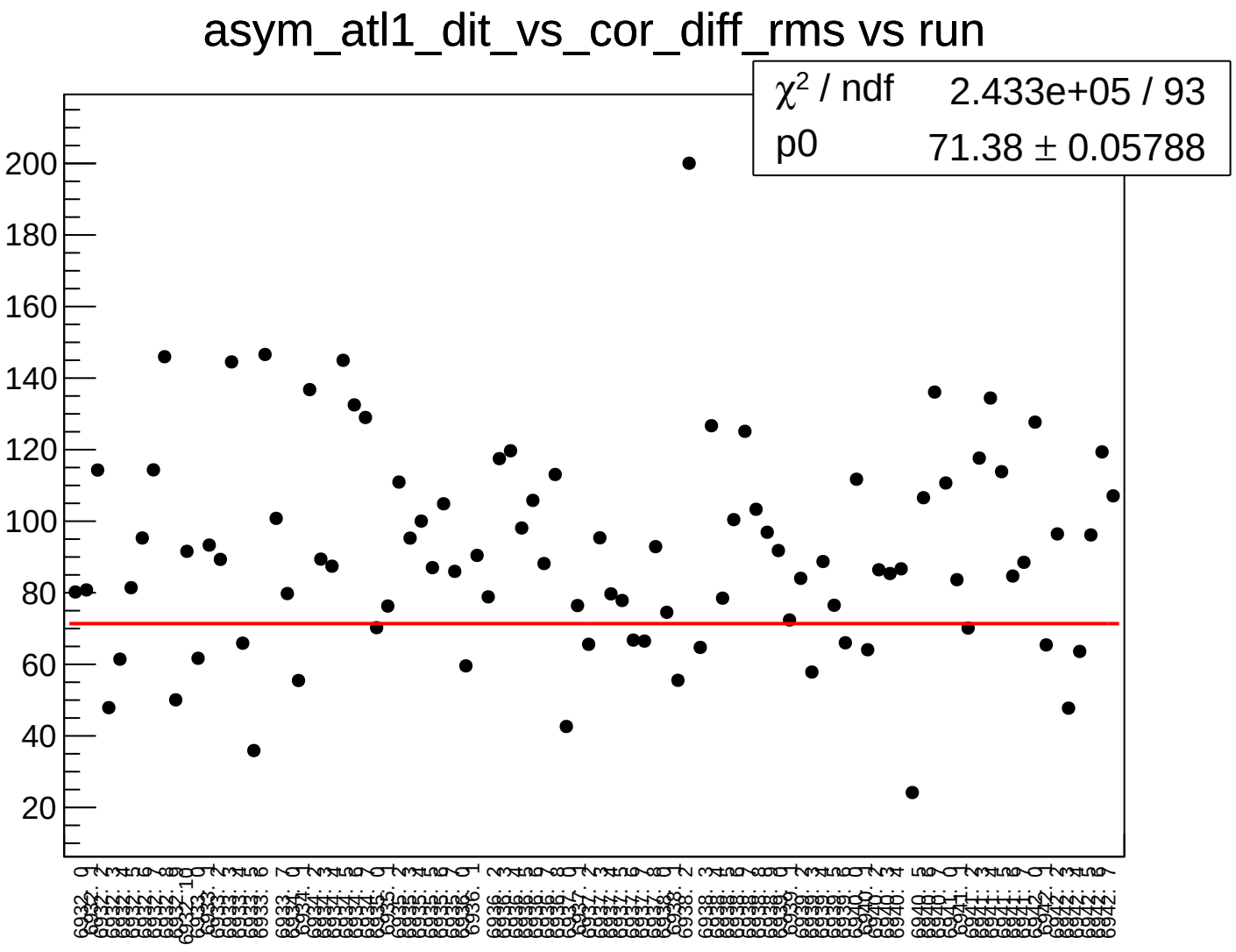

asym_atl1_rms vs run
χ² / ndf 316.2 / 93
p0 2583 ± 1.945
2700
2650
2600
2550
2500

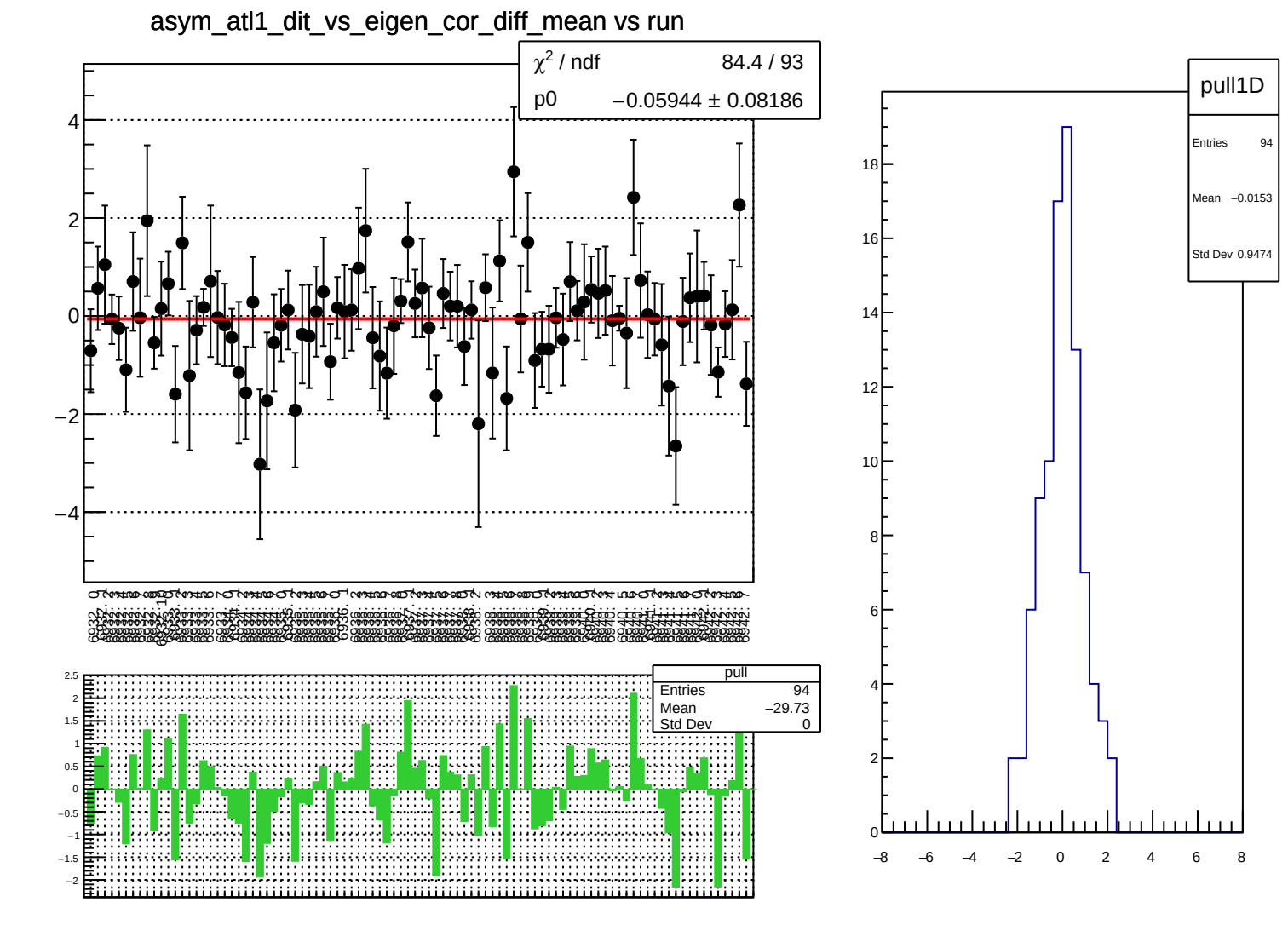

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 86.19 / 93
p0 −6.901e−15 ± 4.093e−14
pull
Entries 94
Mean 44.89
Std Dev 55.4
pull1D
Entries 94
Mean 0.06576
Std Dev 0.9553

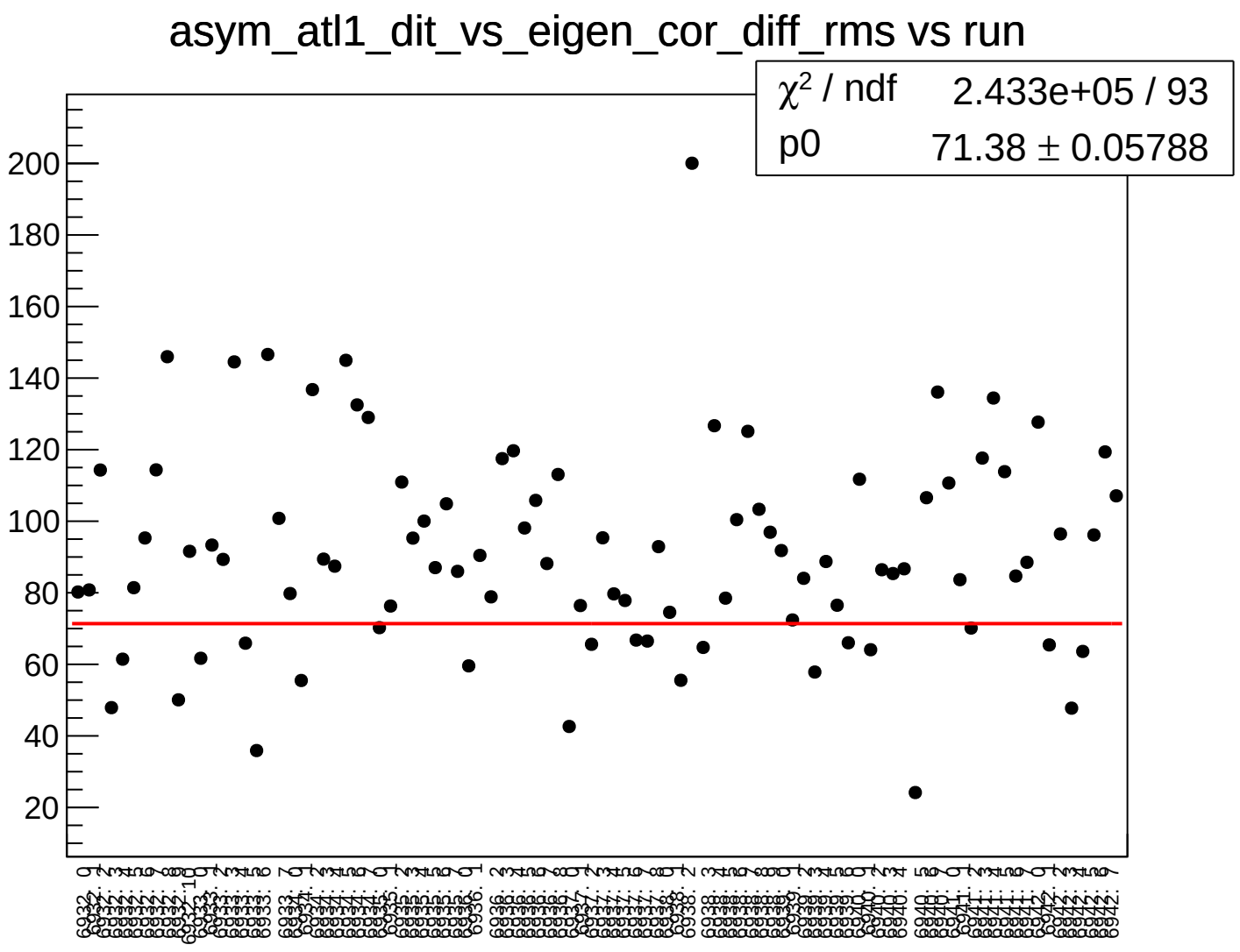

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 93
p0 2.373e−11 ± 2.894e−14
2.5
2
1.5
1
0.5
0

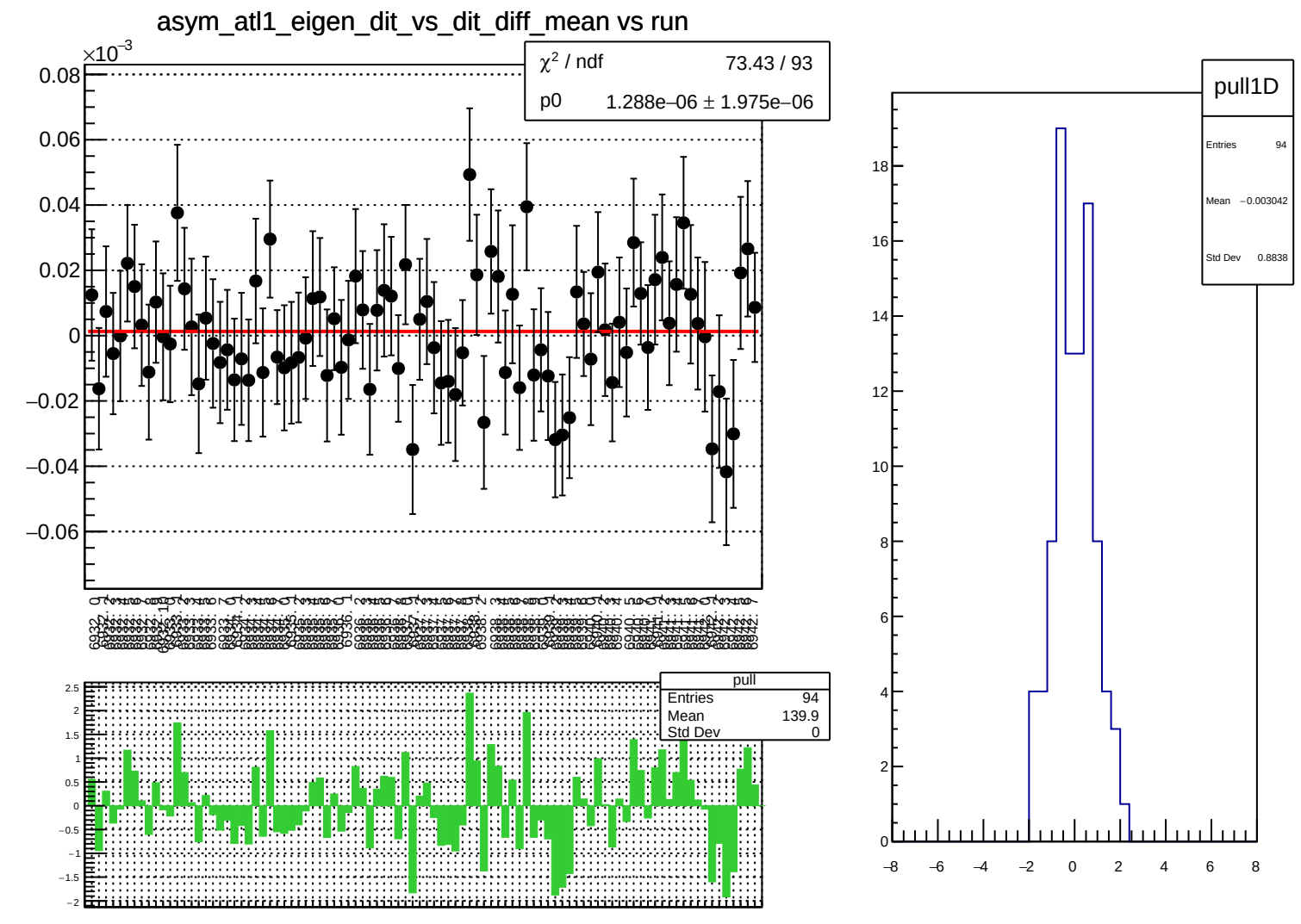

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 93
p0 −0.05944 ± 0.08186
pull
Entries 94
Mean −29.73
Std Dev 0

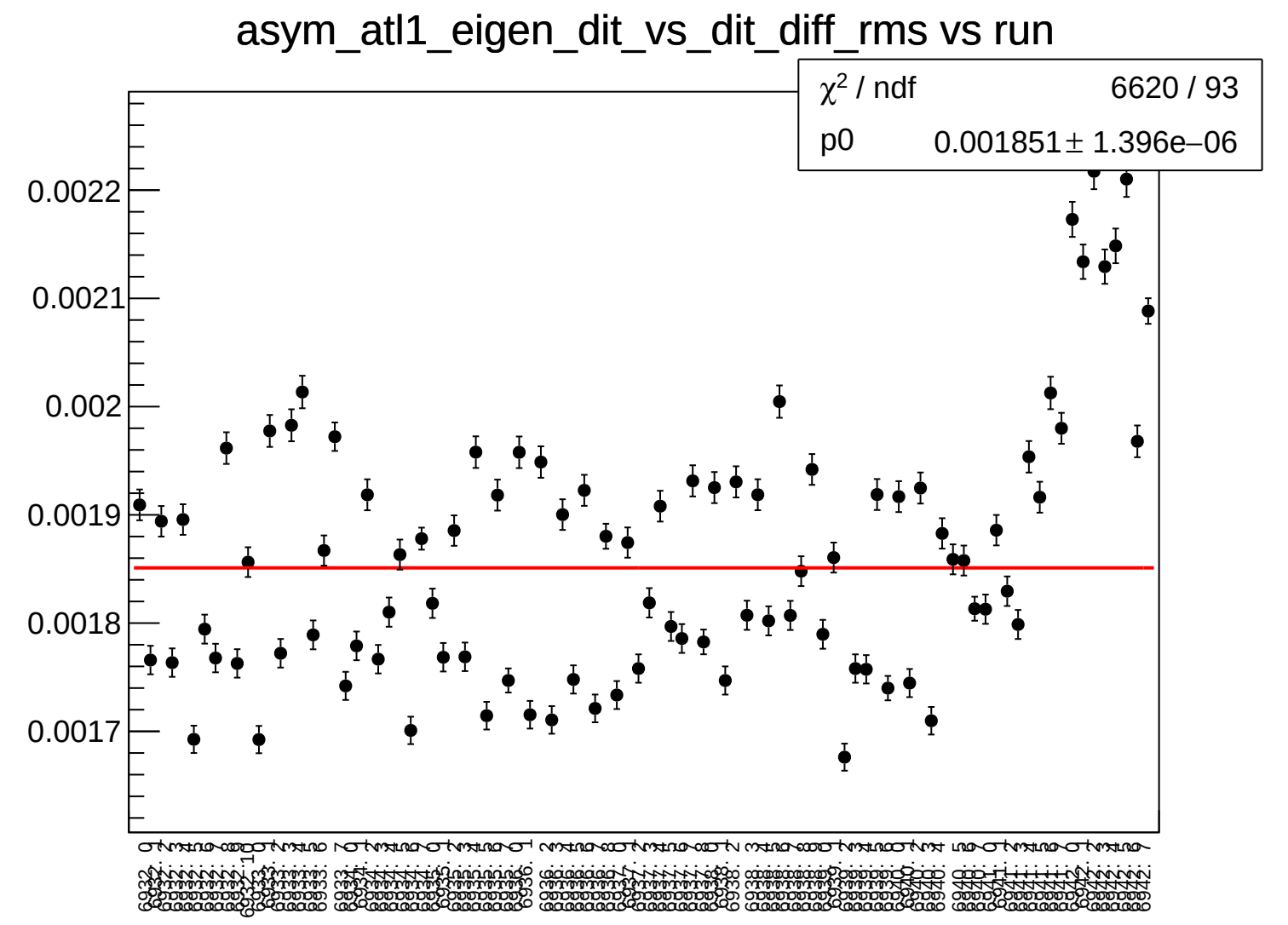

pull1D
Entries 94
Mean −0.0153
Std Dev 0.9474

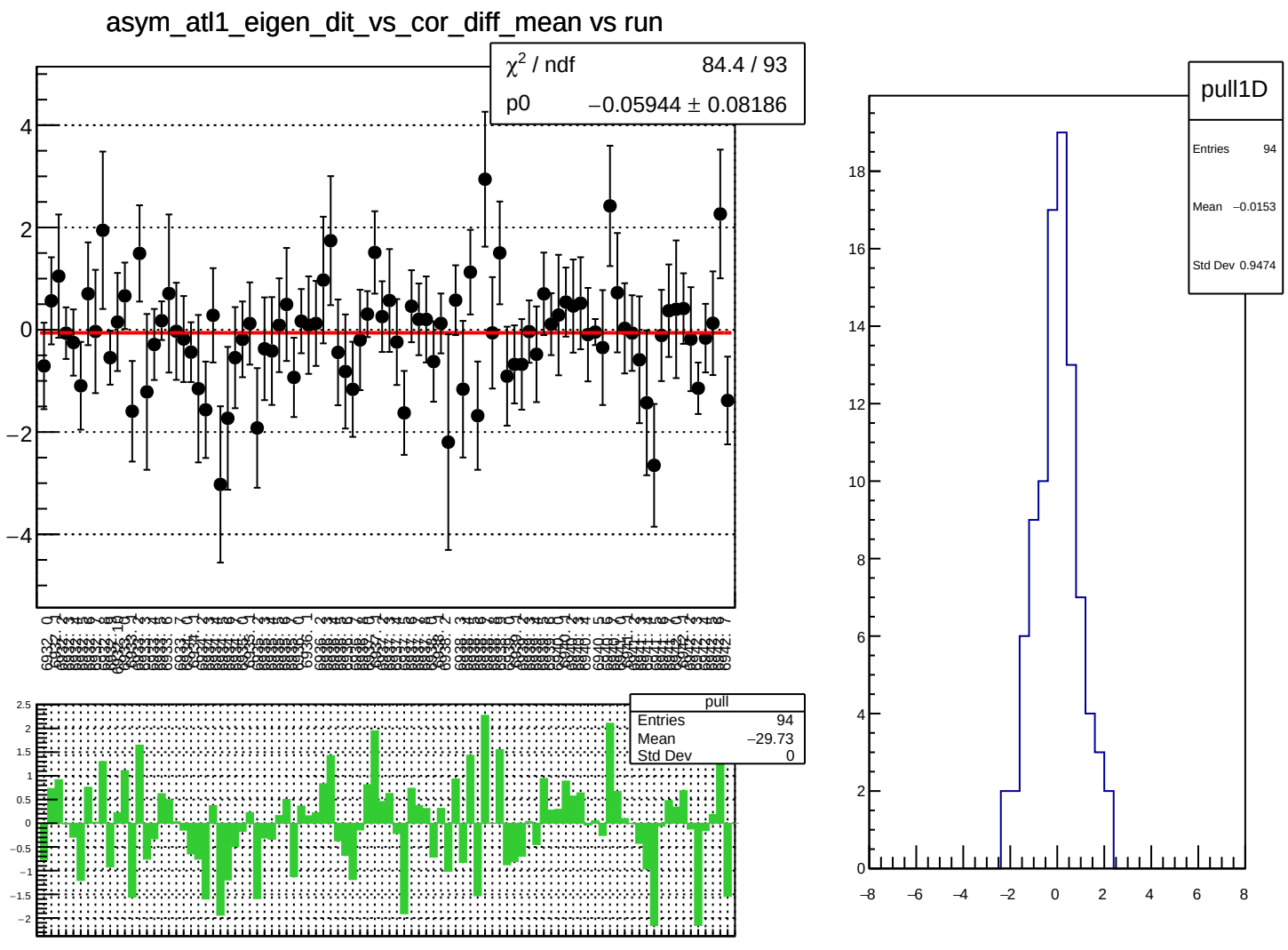

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.433e+05 / 93
p0 71.38 ± 0.05788
200
180
160
140
120
100
80
60
40
20

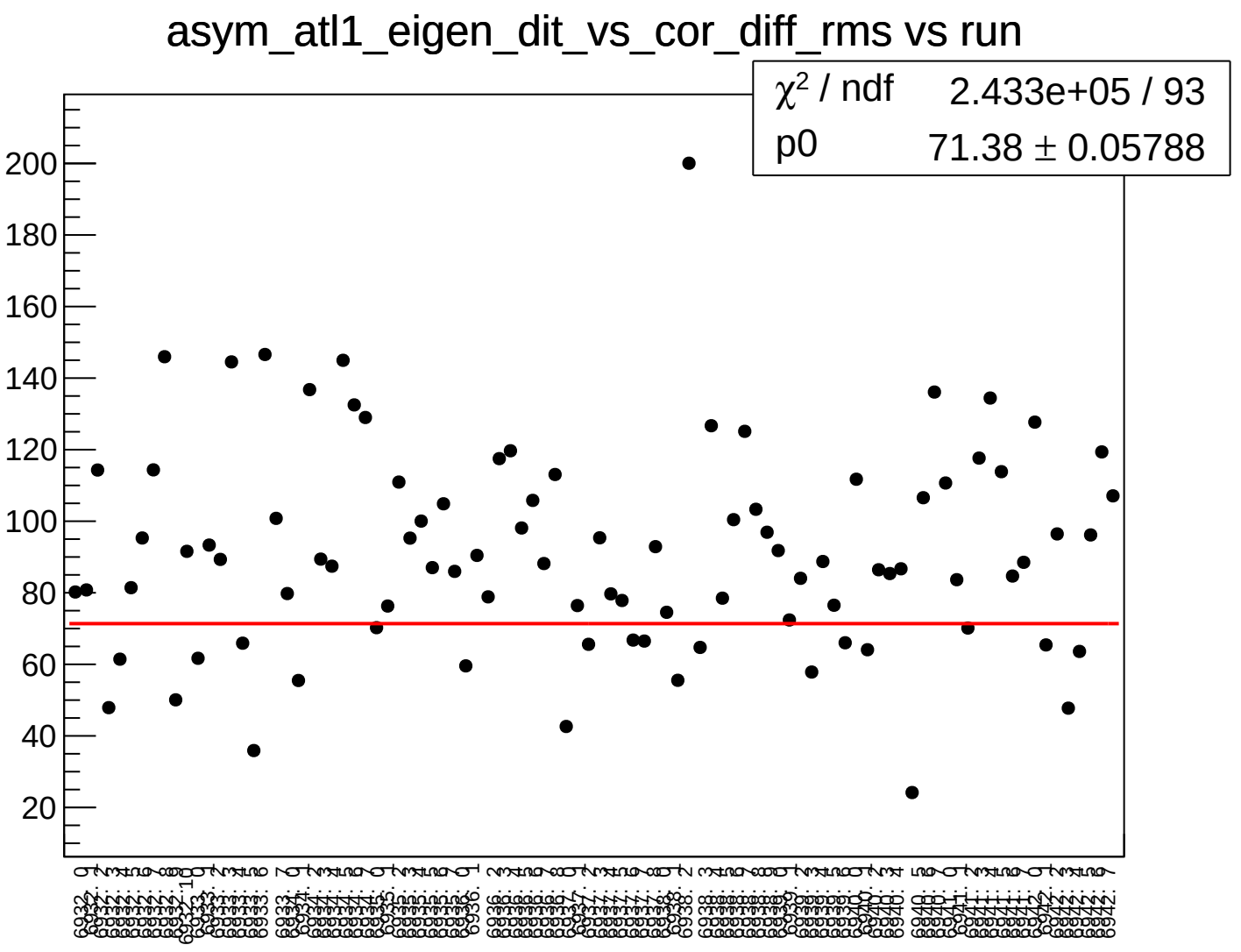

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.4 / 93
p0 −0.05944 ± 0.08186
pull
Entries 94
Mean −29.73
Std Dev 0
pull1D
Entries 94
Mean −0.0153
Std Dev 0.9474

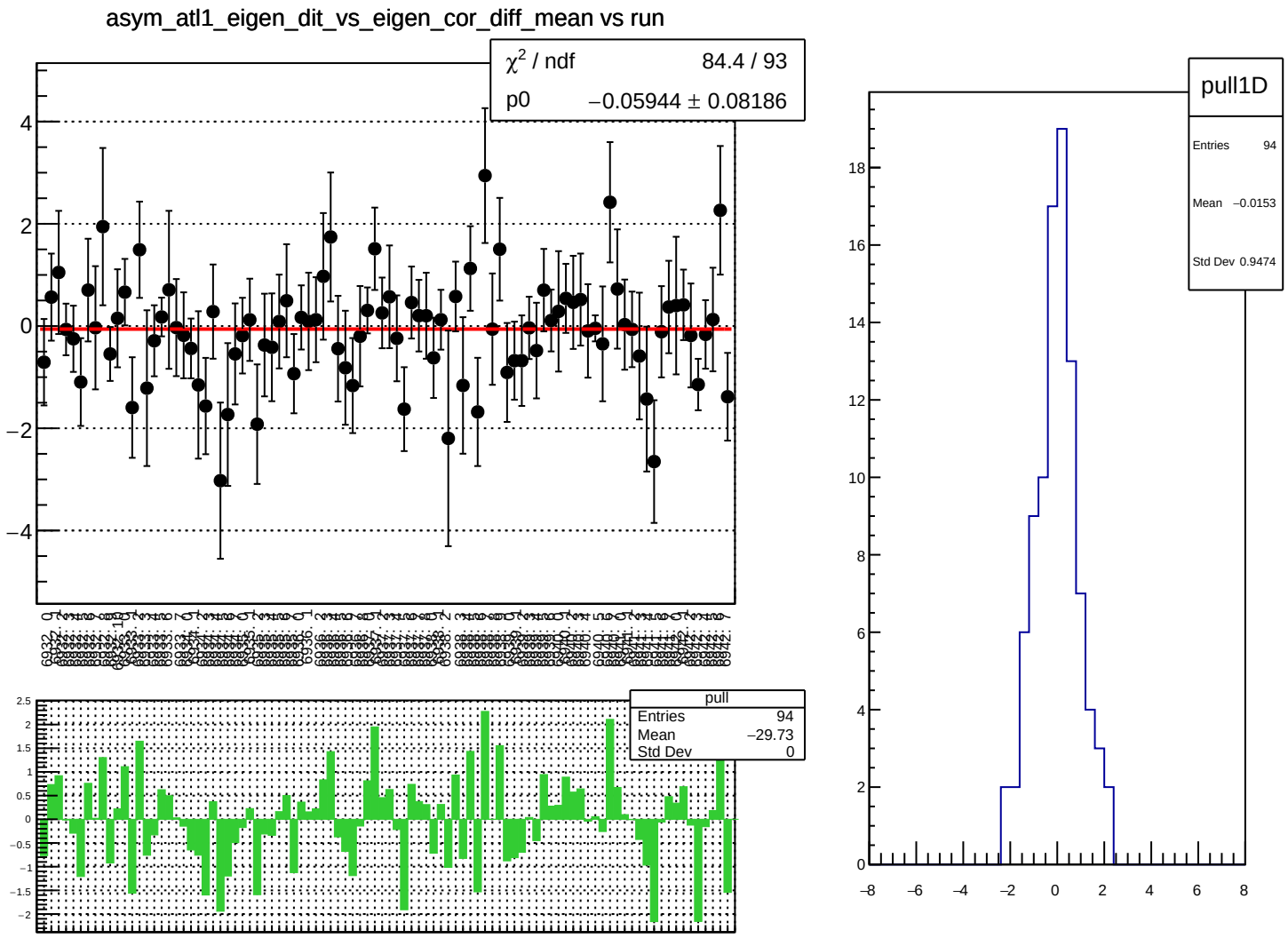

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.433e+05 / 93
p0 71.38 ± 0.05788
200
180
160
140
120
100
80
60
40
20

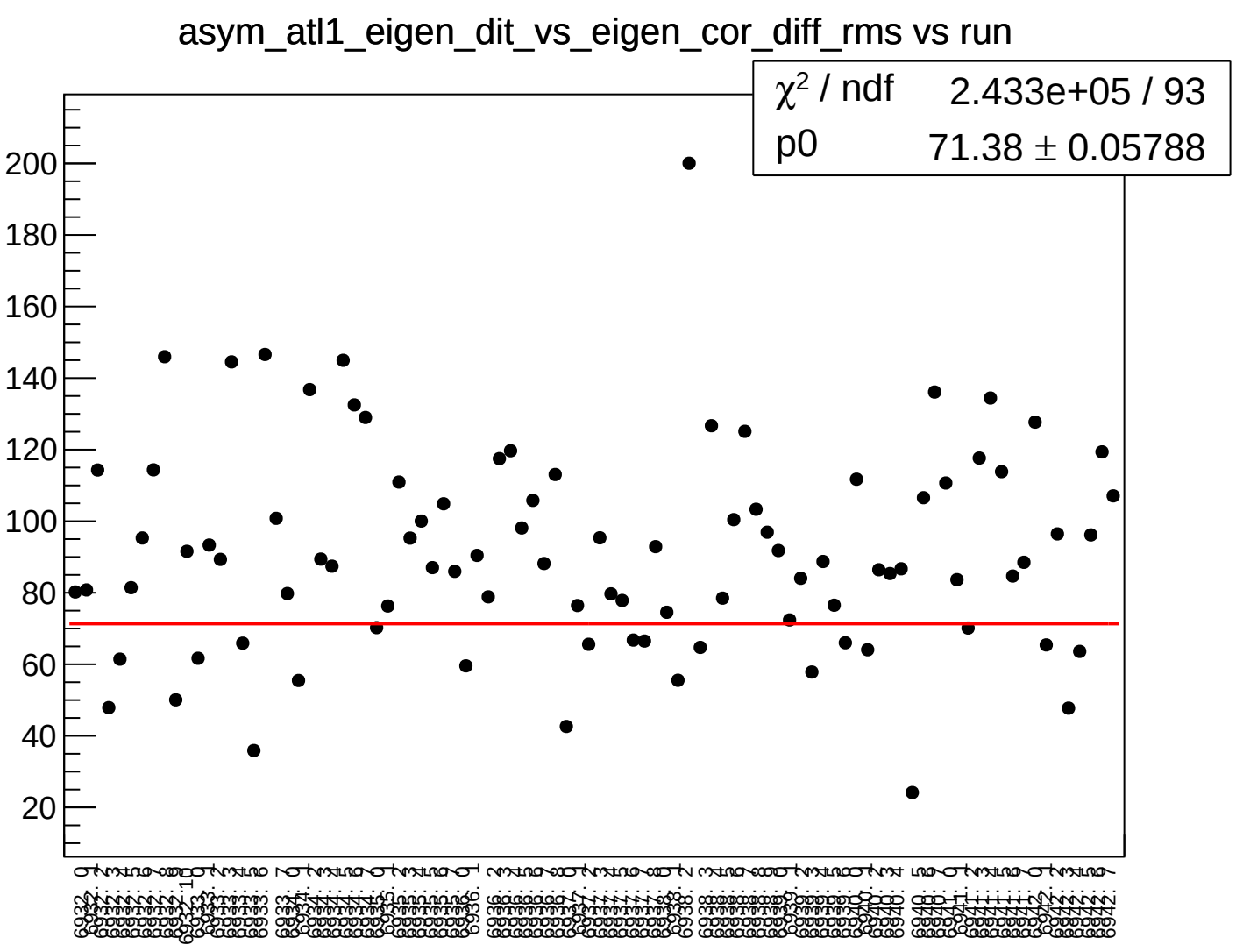

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.43 / 93
p0 1.288e−06 ± 1.975e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 139.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.003042
Std Dev 0.8838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

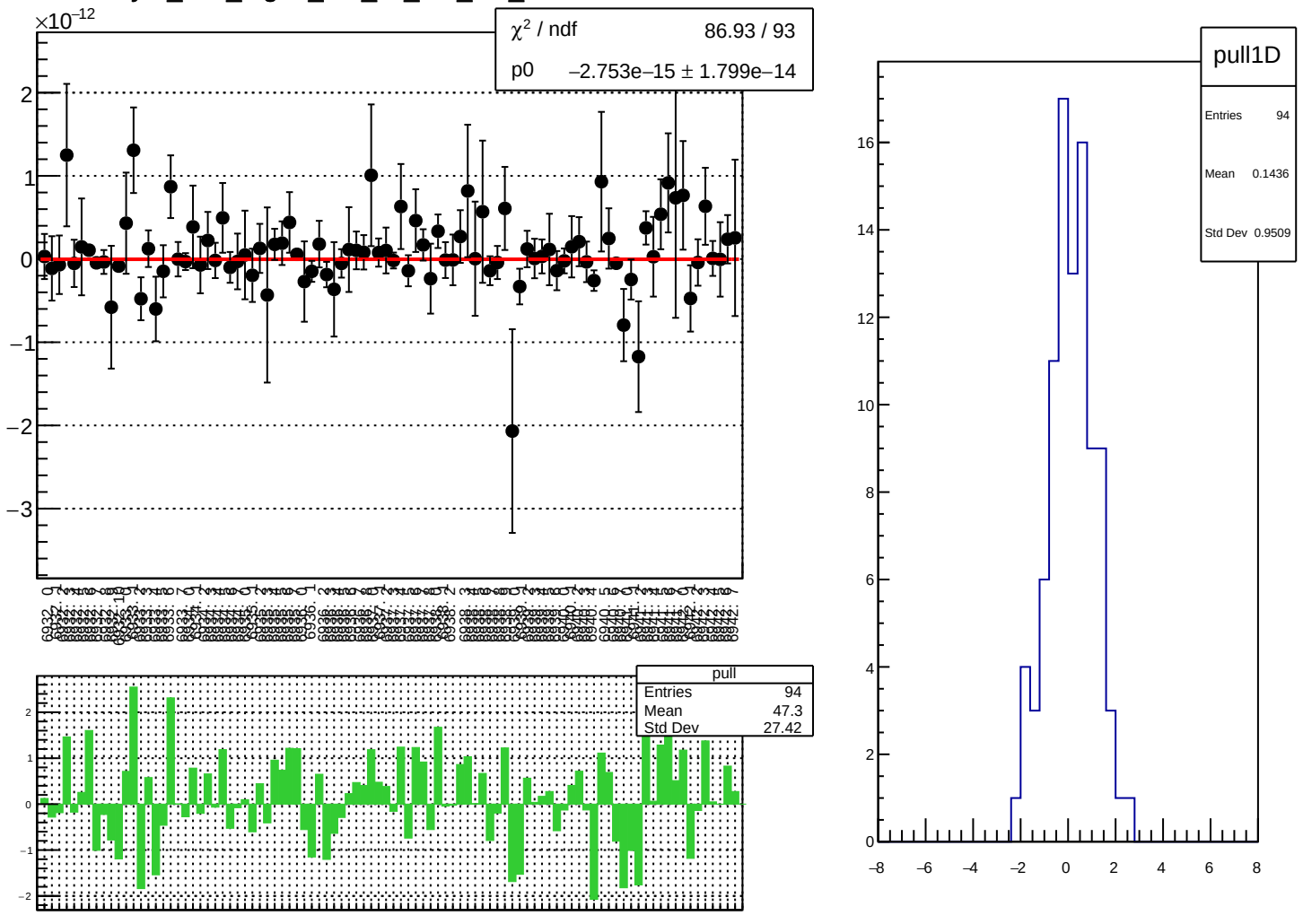

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6620 / 93
p0 0.001851 ± 1.396e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

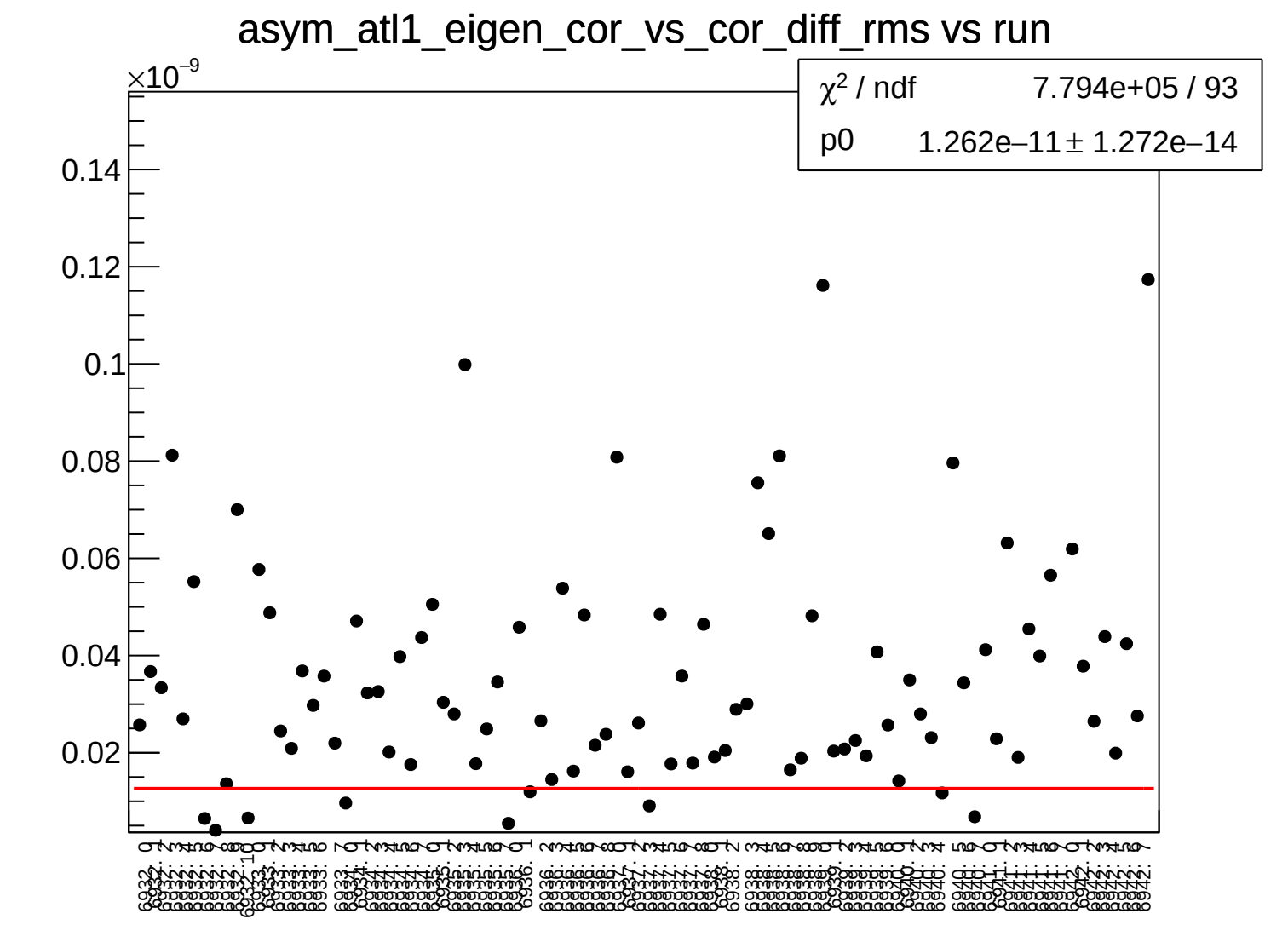

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.4 / 93
p0 −0.05944 ± 0.08186
pull
Entries 94
Mean −29.73
Std Dev 0
pull1D
Entries 94
Mean −0.0153
Std Dev 0.9474

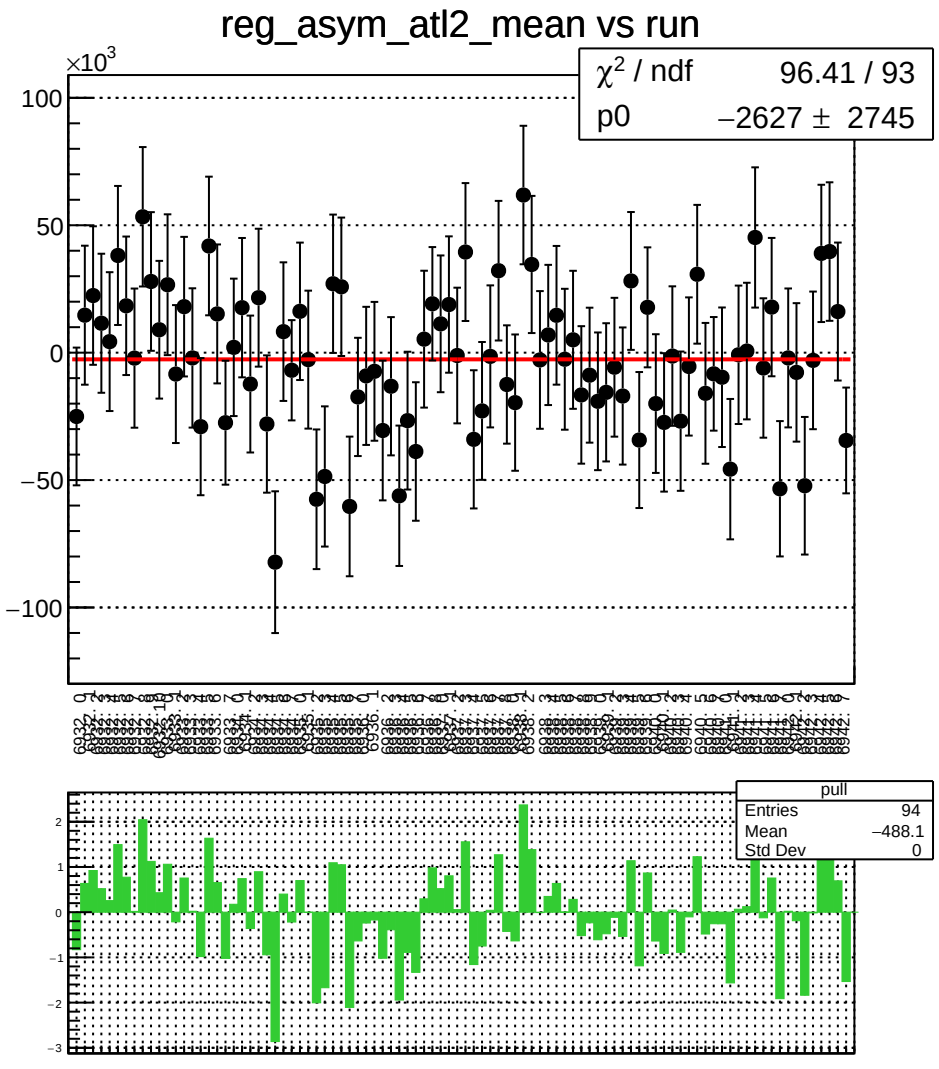

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.433e+05 / 93
p0 71.38 ± 0.05788
200
180
160
140
120
100
80
60
40
20

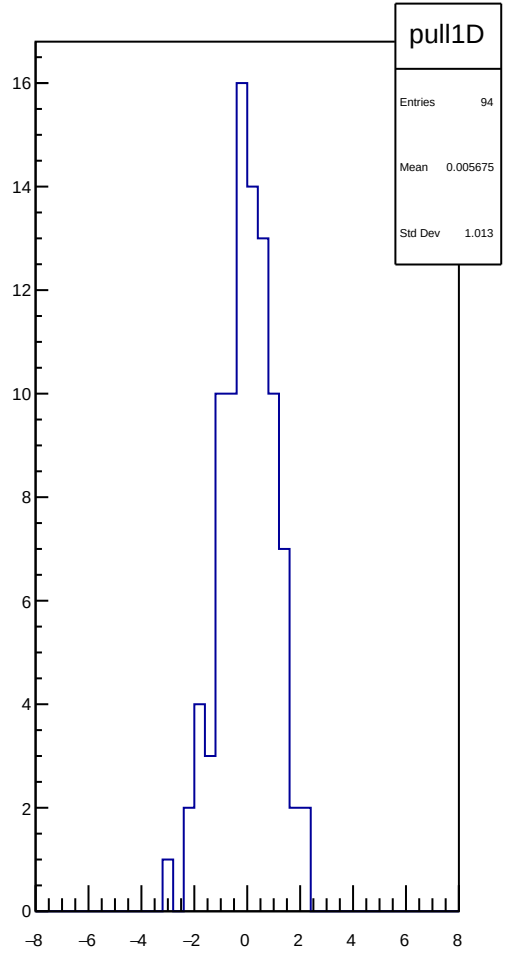

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.4 / 93
p0 −0.05944 ± 0.08186
pull
Entries 94
Mean −29.73
Std Dev 0
pull1D
Entries 94
Mean −0.0153
Std Dev 0.9474

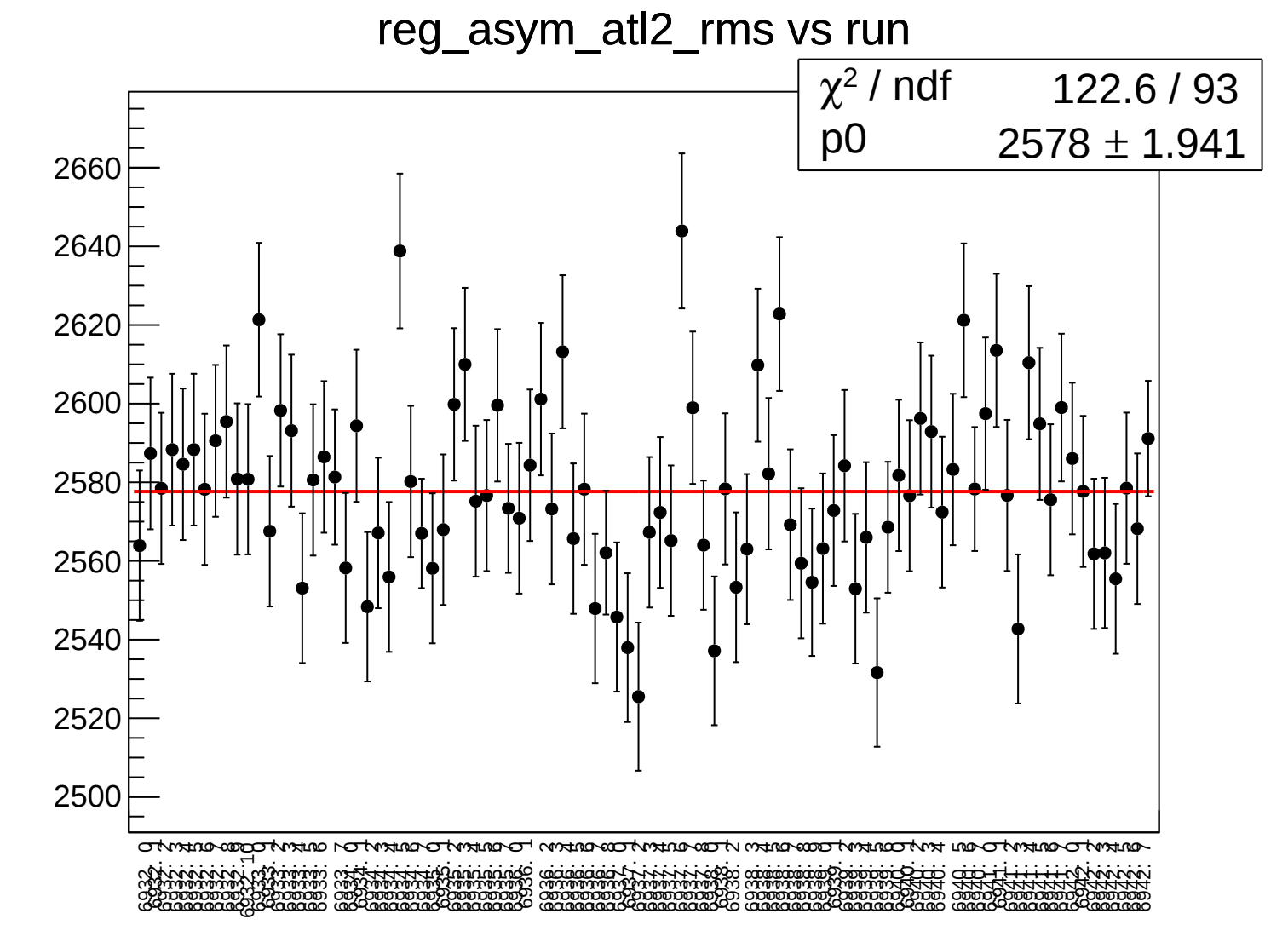

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.433e+05 / 93
p0 71.38 ± 0.05788
200
180
160
140
120
100
80
60
40
20

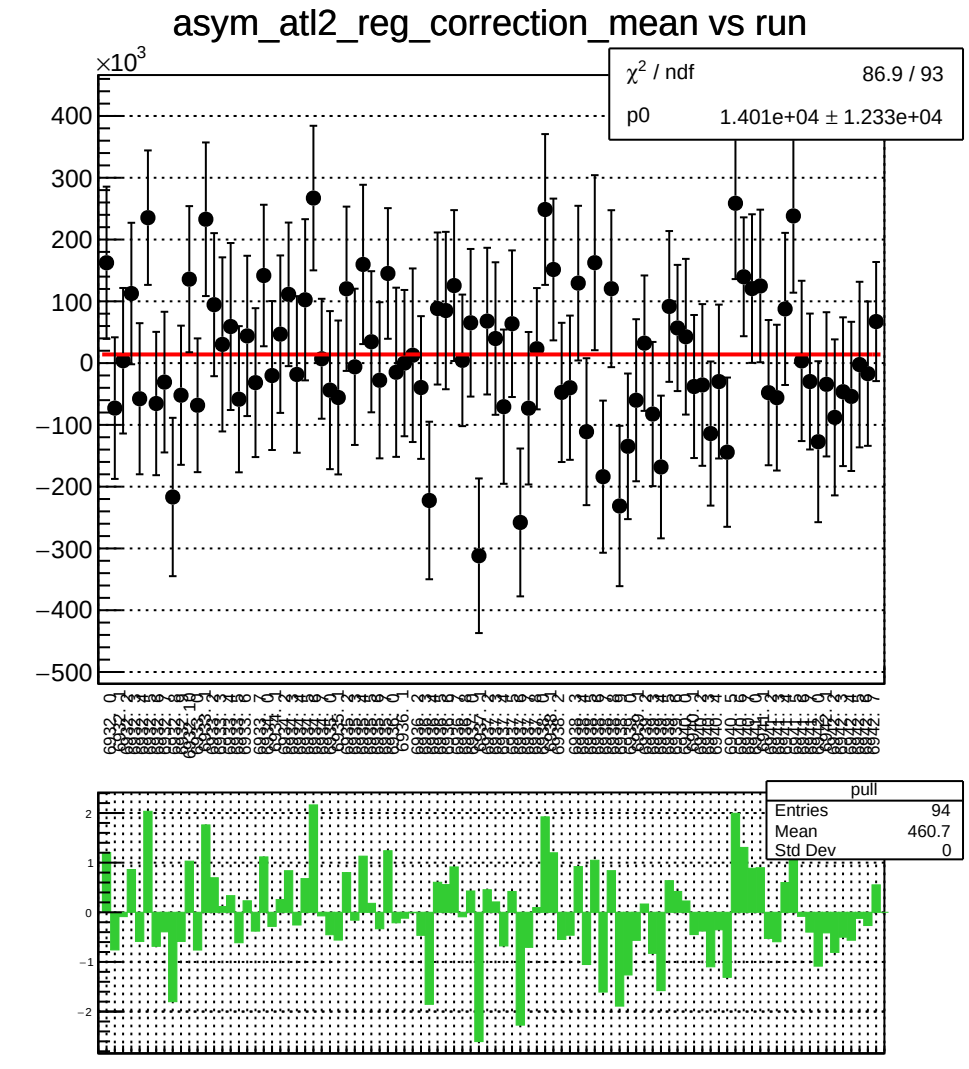

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.93 / 93
p0 −2.753e−15 ± 1.799e−14
pull
Entries 94
Mean 47.3
Std Dev 27.42
pull1D
Entries 94
Mean 0.1436
Std Dev 0.9509

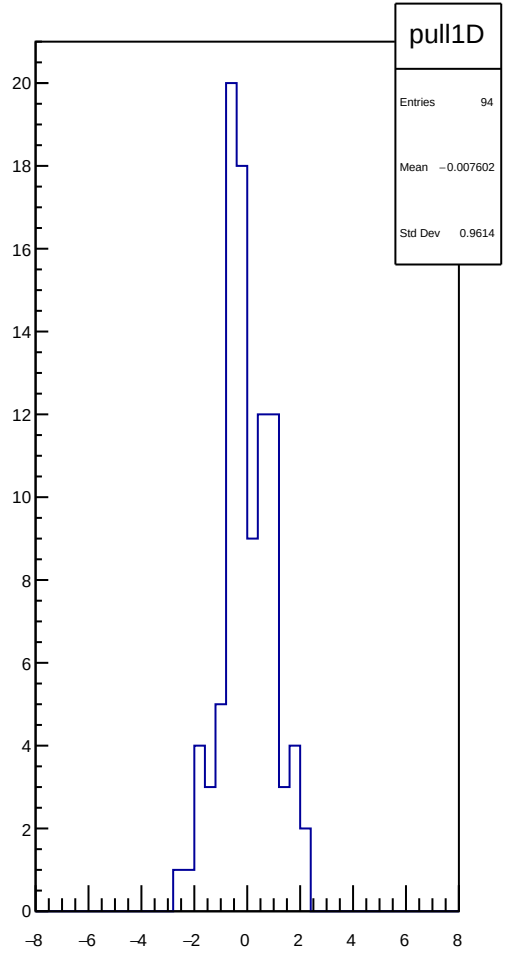

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.794e+05 / 93
p0 1.262e−11 ± 1.272e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

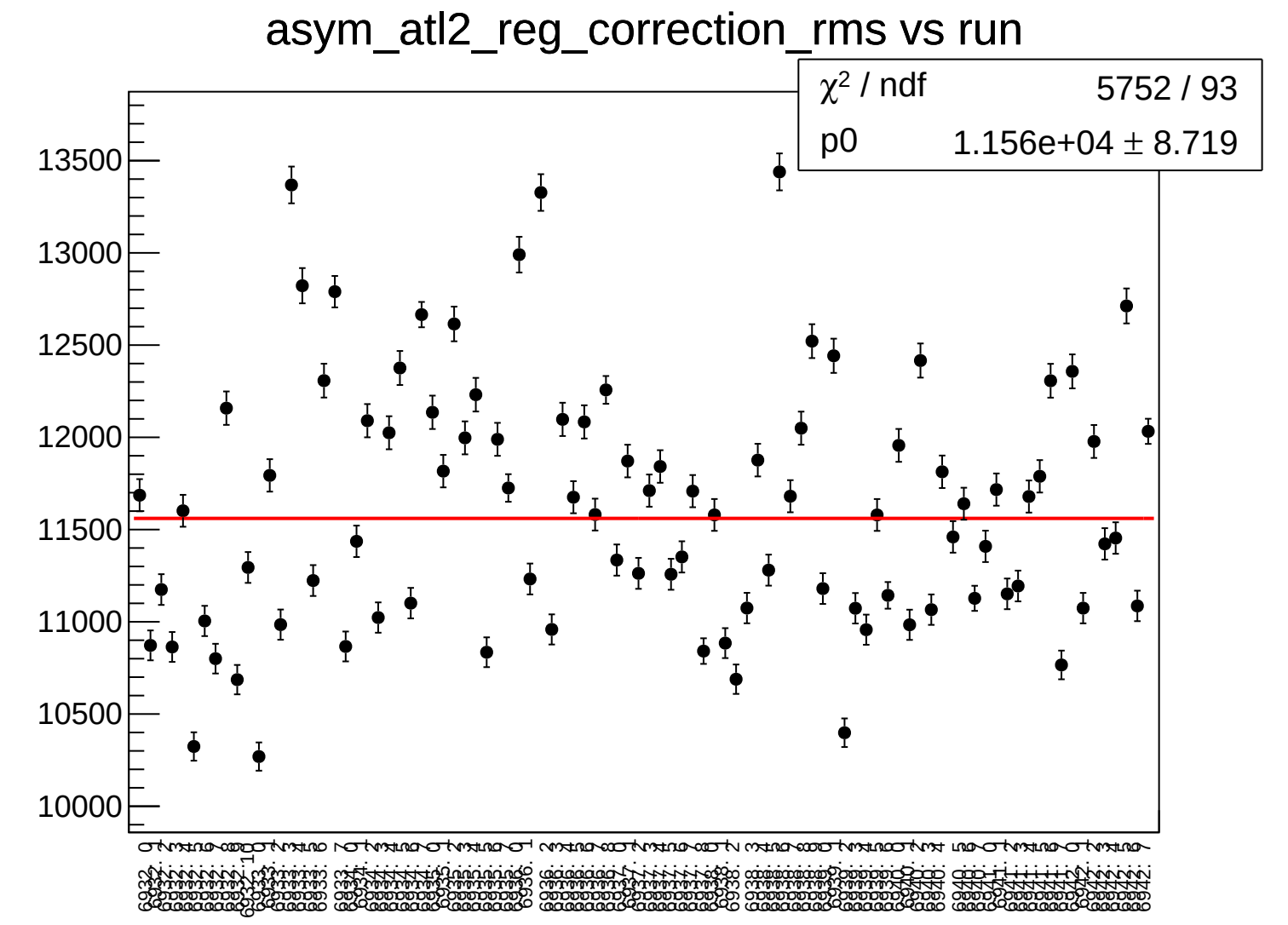

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 96.41 / 93
p0 −2627 ± 2745
100
50
0
−50
−100
pull
Entries 94
Mean −488.1
Std Dev 0
2
1
0
−1
−2
−3

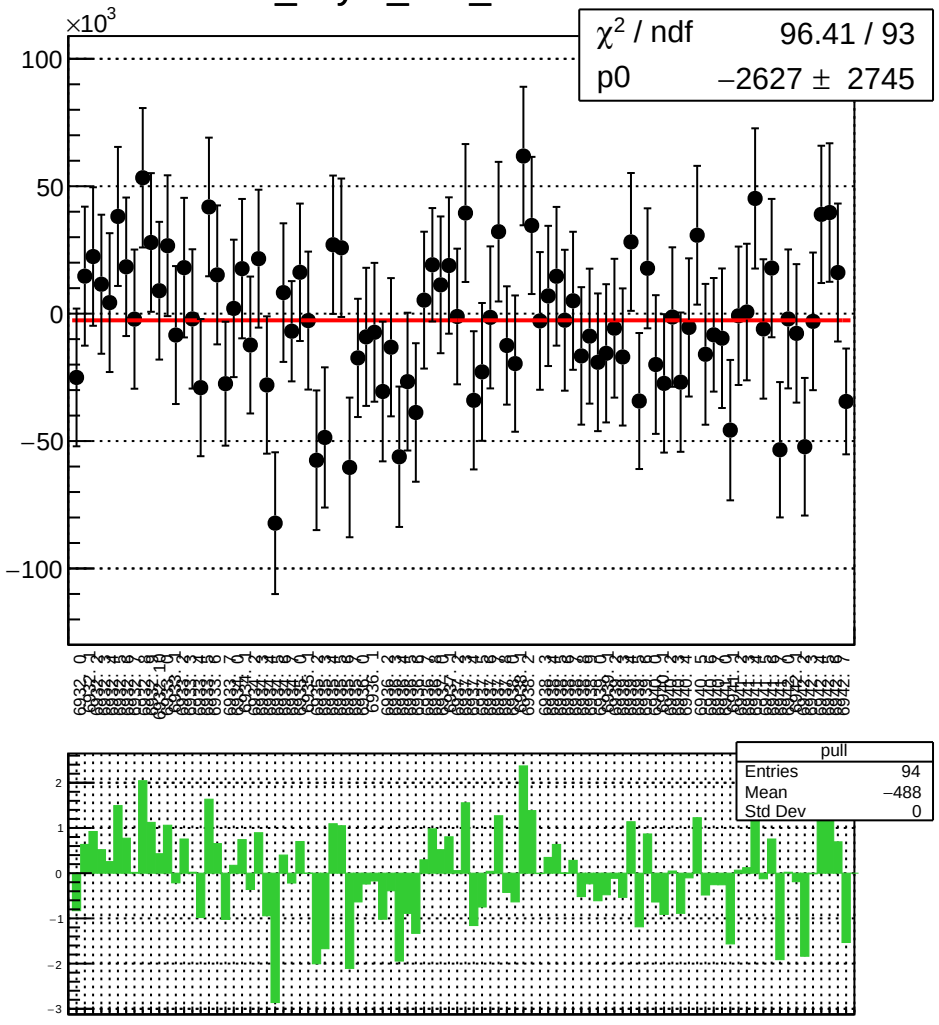

pull1D
Entries 94
Mean 0.005675
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

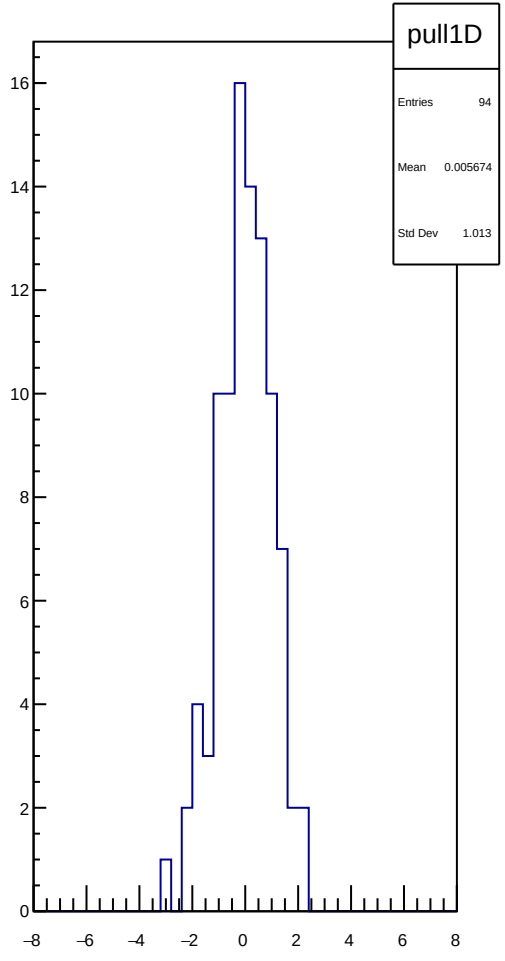

reg_asym_atl2_rms vs run
χ² / ndf 122.6 / 93
p0 2578 ± 1.941
2660
2640
2620
2600
2580
2560
2540
2520
2500

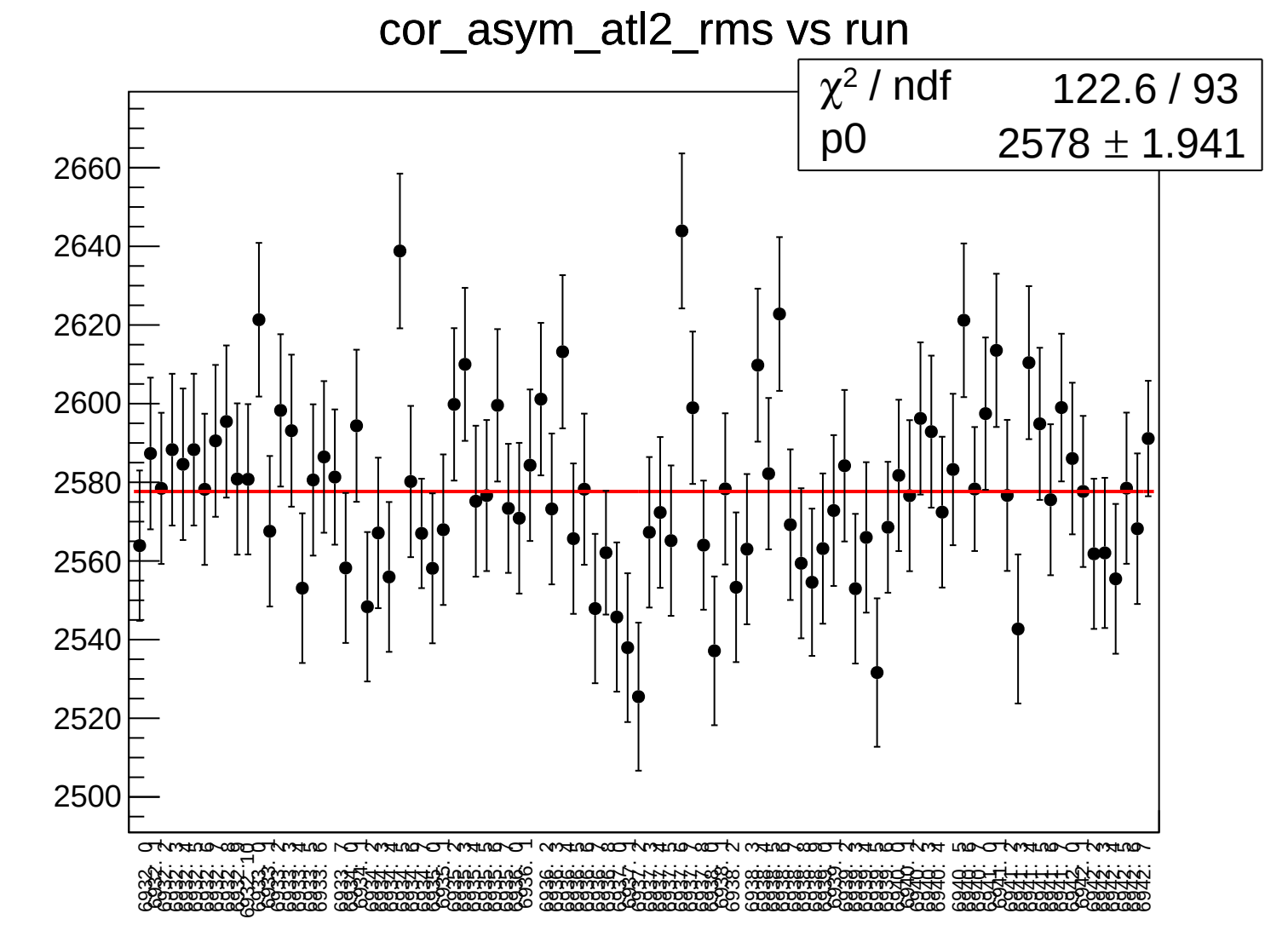

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 1.401e+04 ± 1.233e+04
pull
Entries 94
Mean 460.7
Std Dev 0

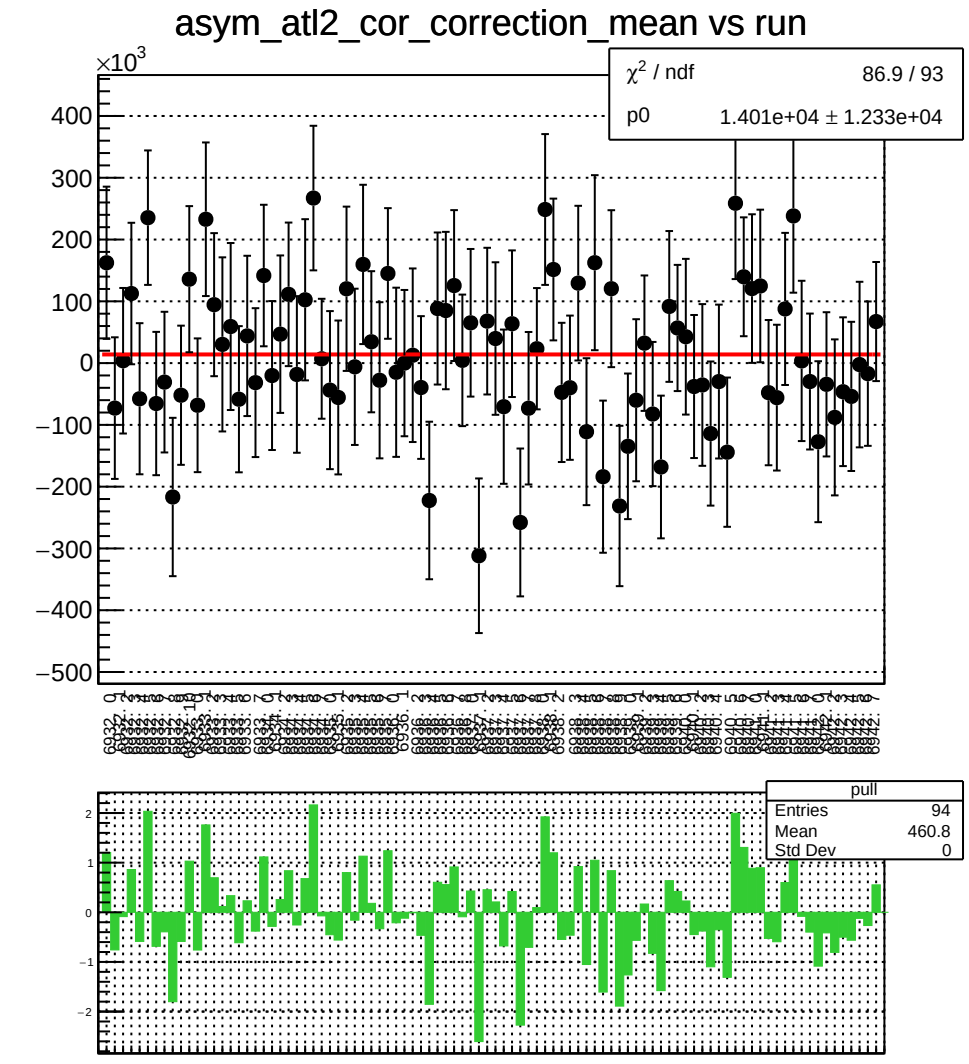

pull1D
Entries 94
Mean −0.007602
Std Dev 0.9614

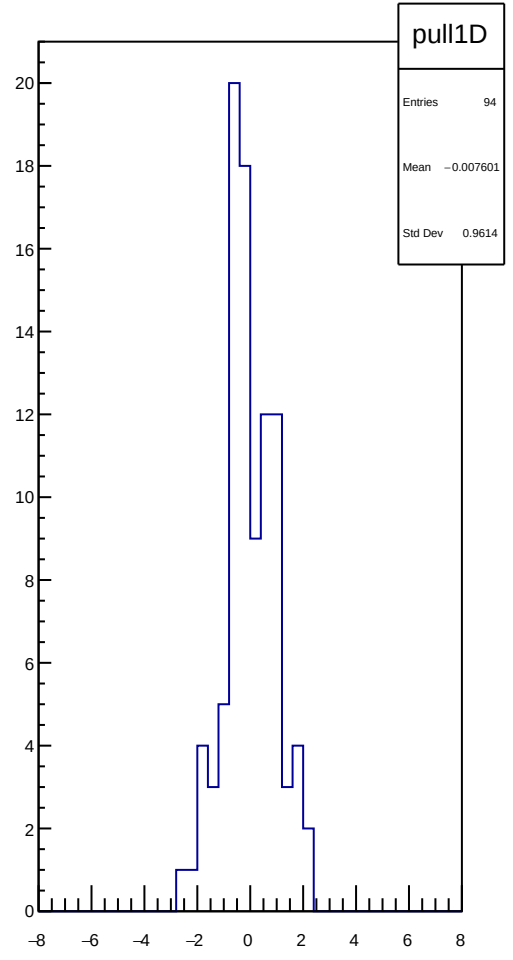

asym_atl2_reg_correction_rms vs run
χ² / ndf 5752 / 93
p0 1.156e+04 ± 8.719
13500
13000
12500
12000
11500
11000
10500
10000

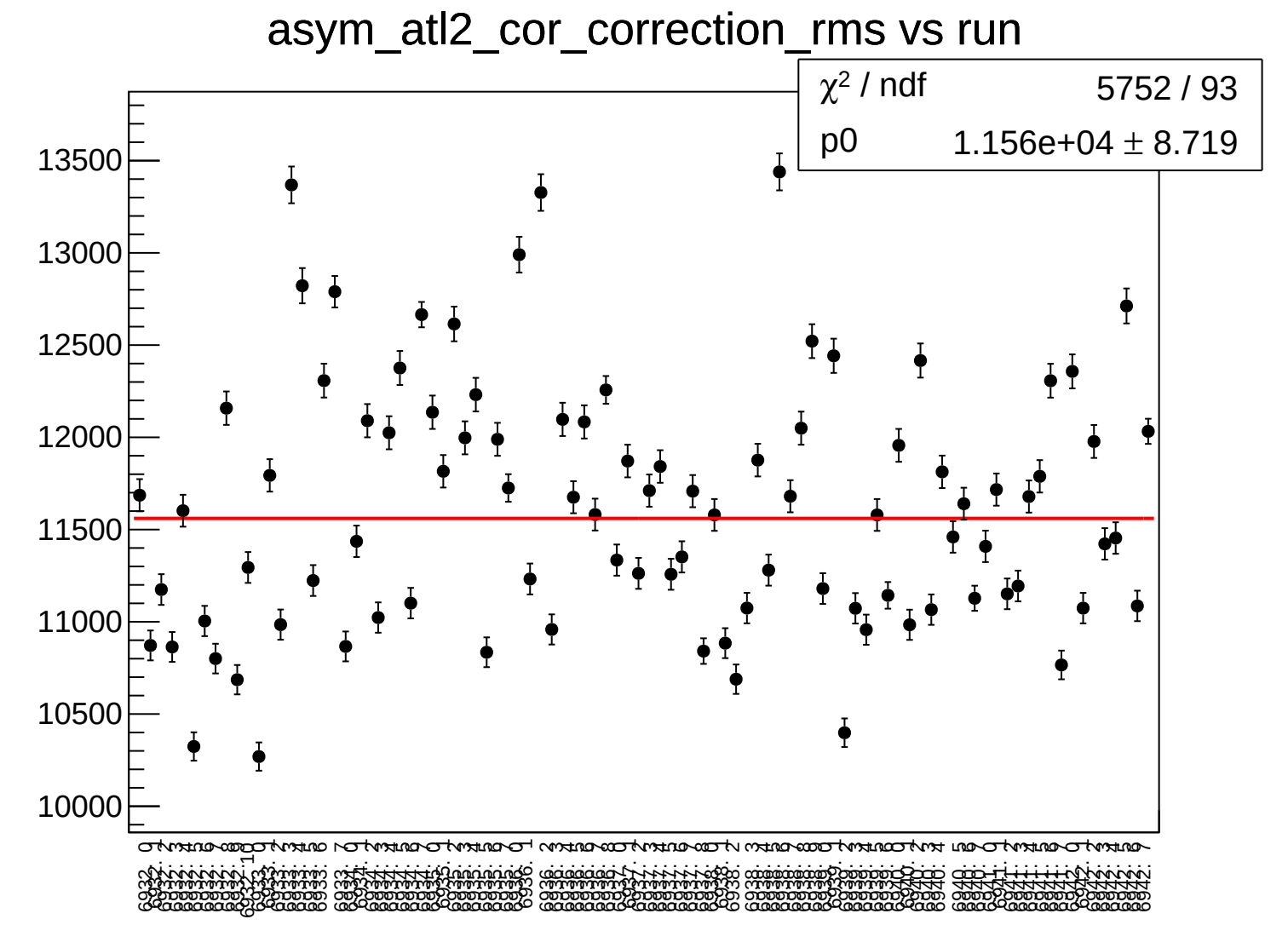

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 96.41 / 93
p0 −2627 ± 2745
100
50
0
−50
−100
pull
Entries 94
Mean −488
Std Dev 0
2
1
0
−1
−2
−3

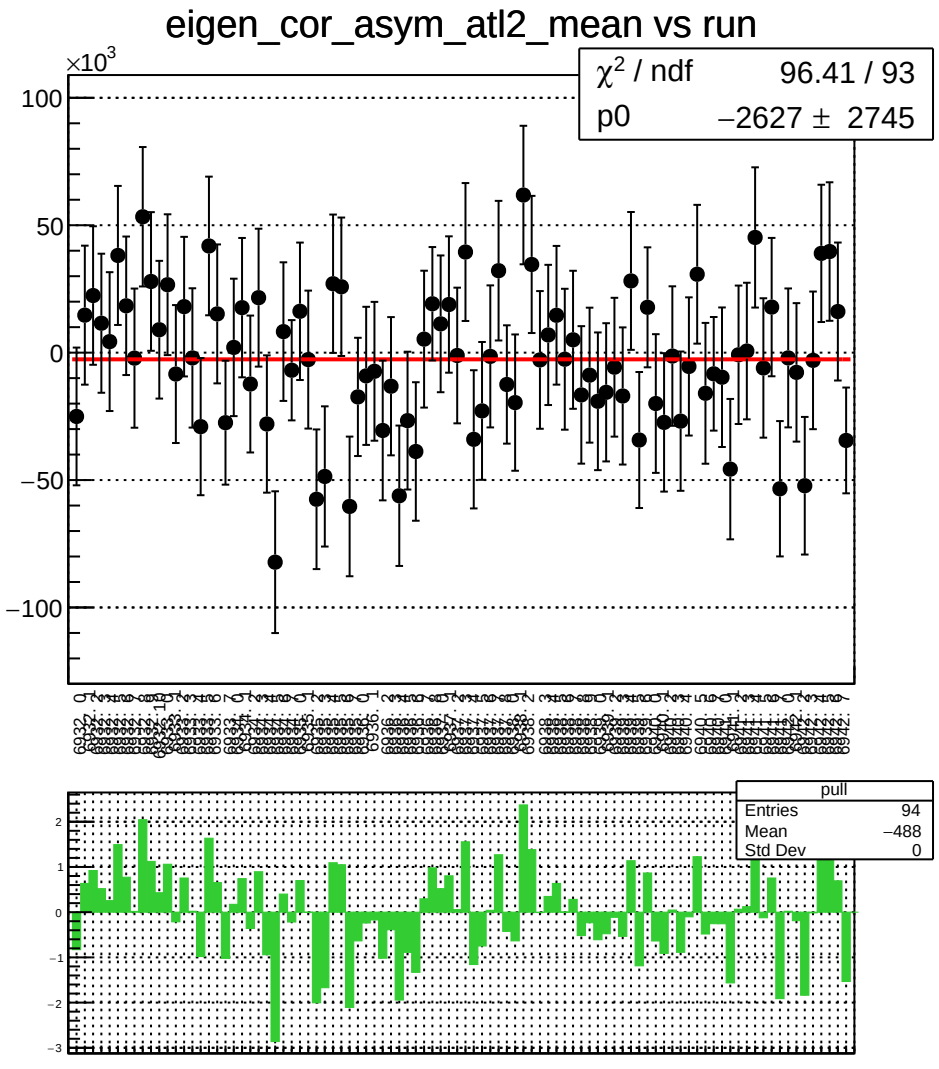

pull1D
Entries 94
Mean 0.005674
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

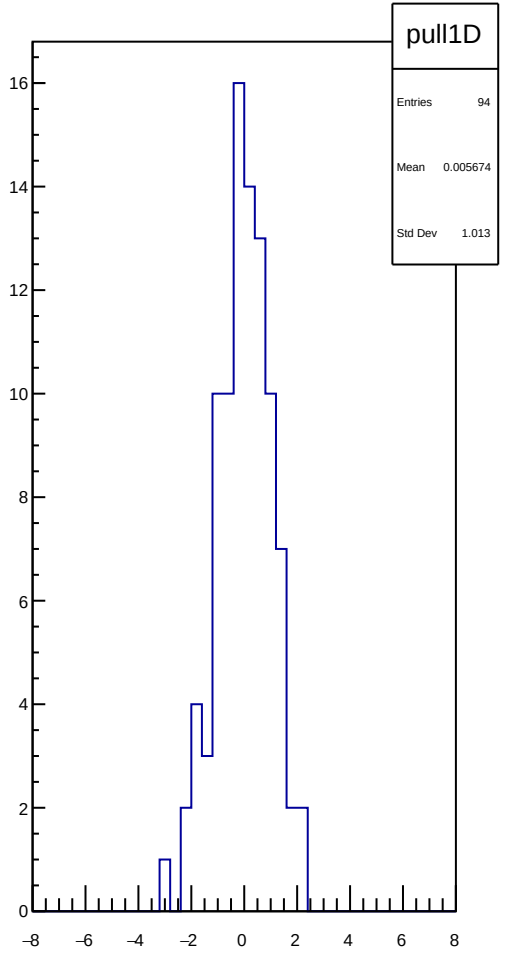

cor_asym_atl2_rms vs run
χ² / ndf 122.6 / 93
p0 2578 ± 1.941
2660
2640
2620
2600
2580
2560
2540
2520
2500

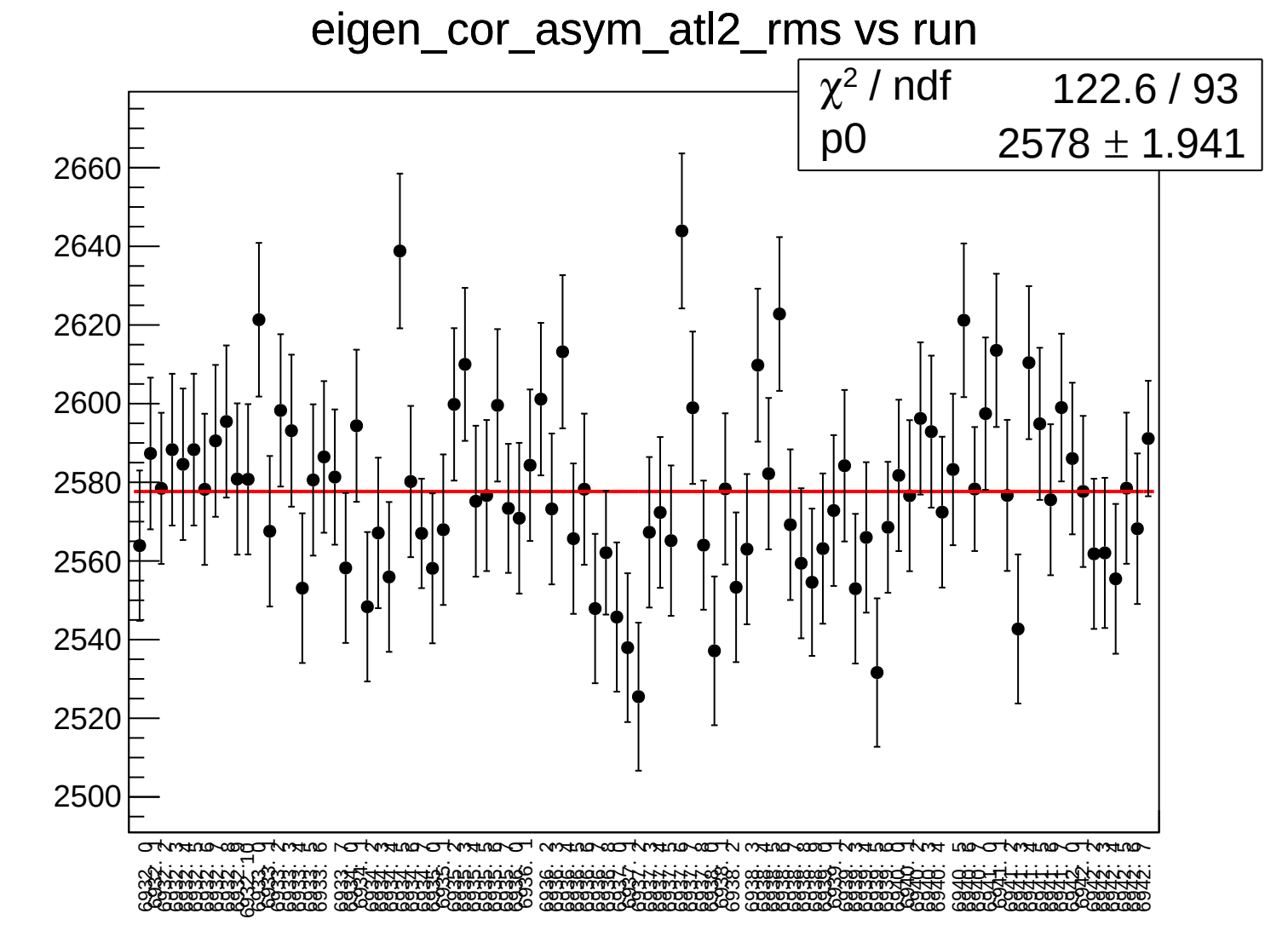

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 1.401e+04 ± 1.233e+04
pull
Entries 94
Mean 460.8
Std Dev 0

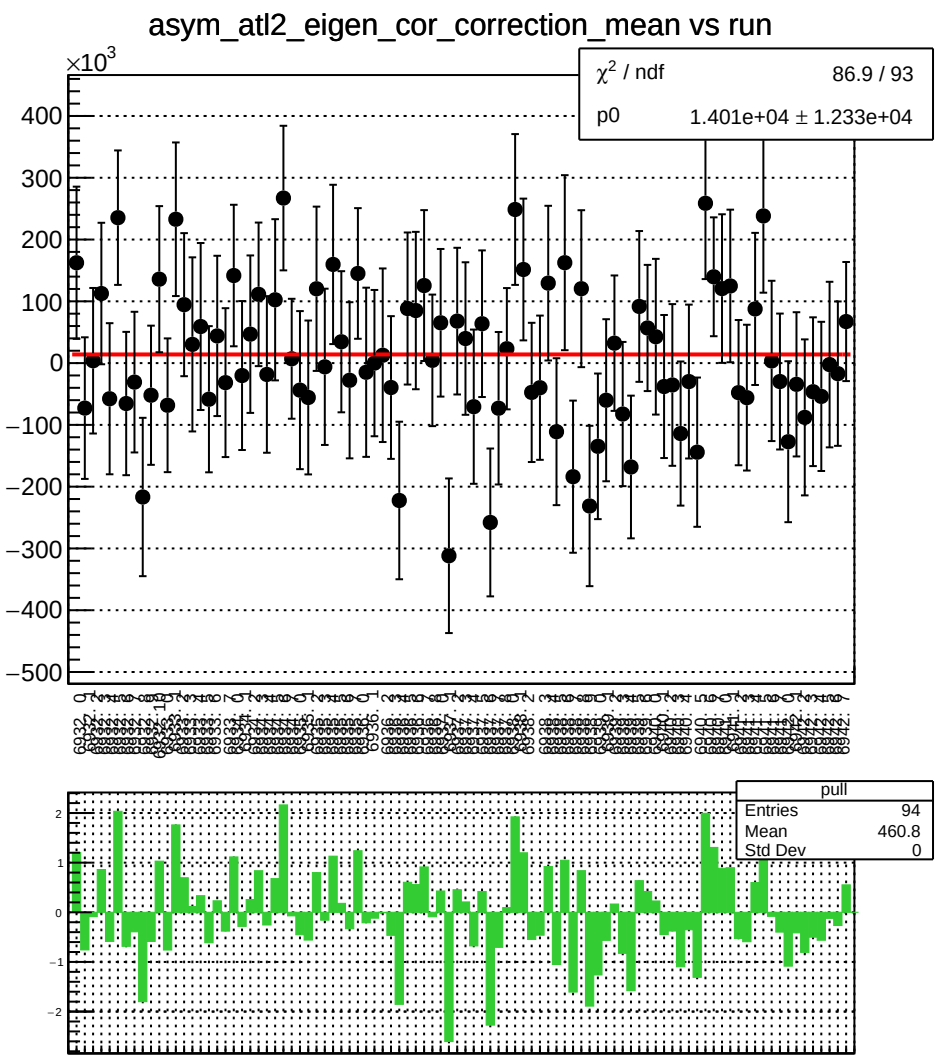

pull1D
Entries 94
Mean −0.007601
Std Dev 0.9614

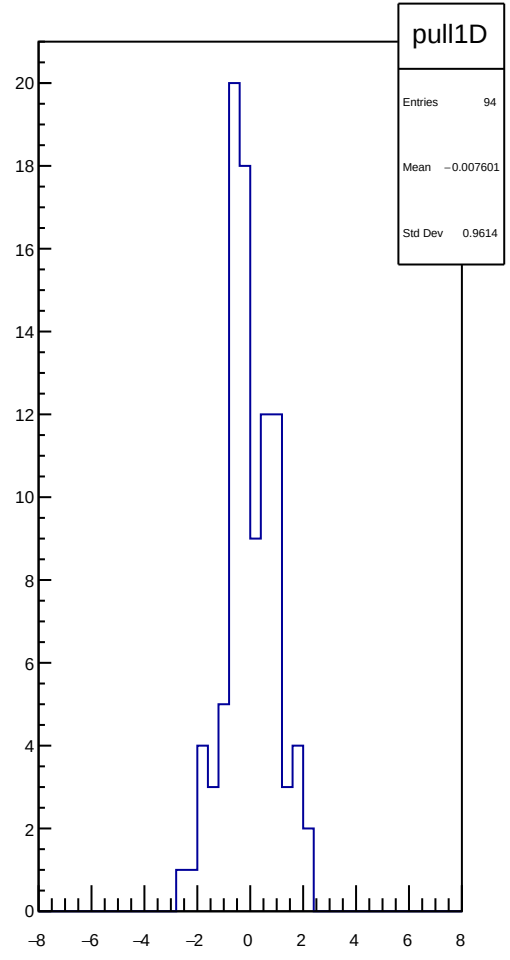

asym_atl2_cor_correction_rms vs run
χ² / ndf 5752 / 93
p0 1.156e+04 ± 8.719
13500
13000
12500
12000
11500
11000
10500
10000

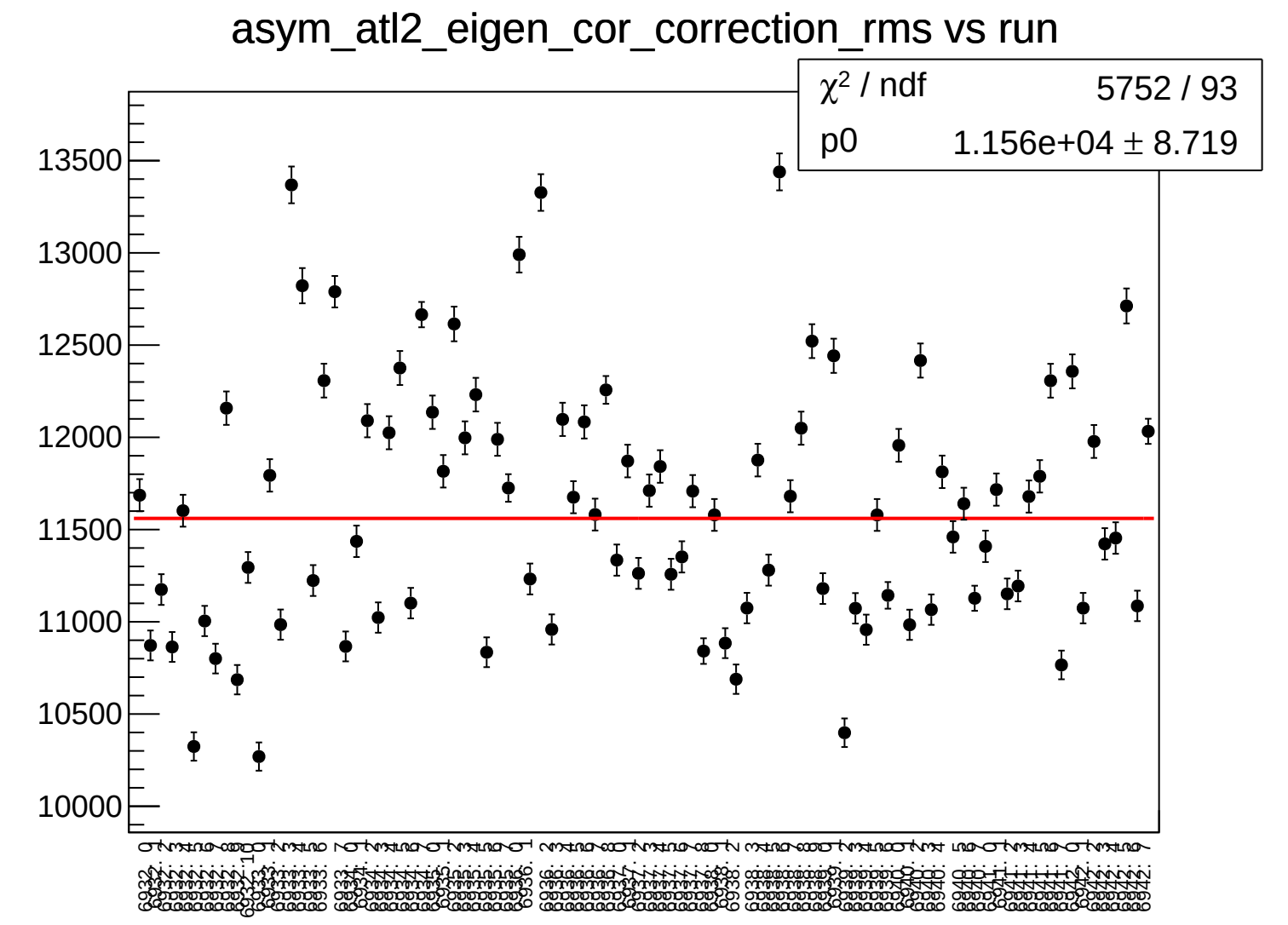

eigen_cor_asym_atl2_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 96.41 / 93
p0 −2627 ± 2745
pull
Entries 94
Mean −488
Std Dev 0
2
1
0
−1
−2
−3

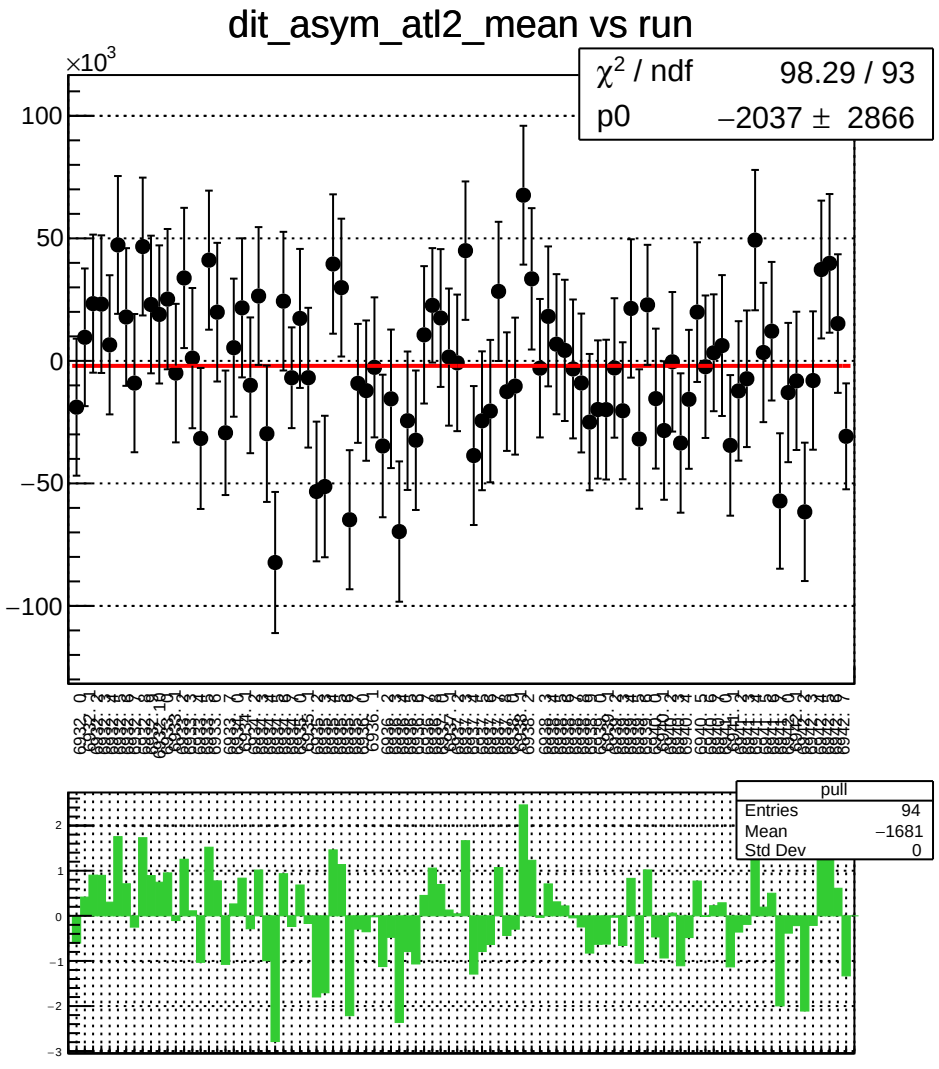

pull1D
Entries 94
Mean 0.005674
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

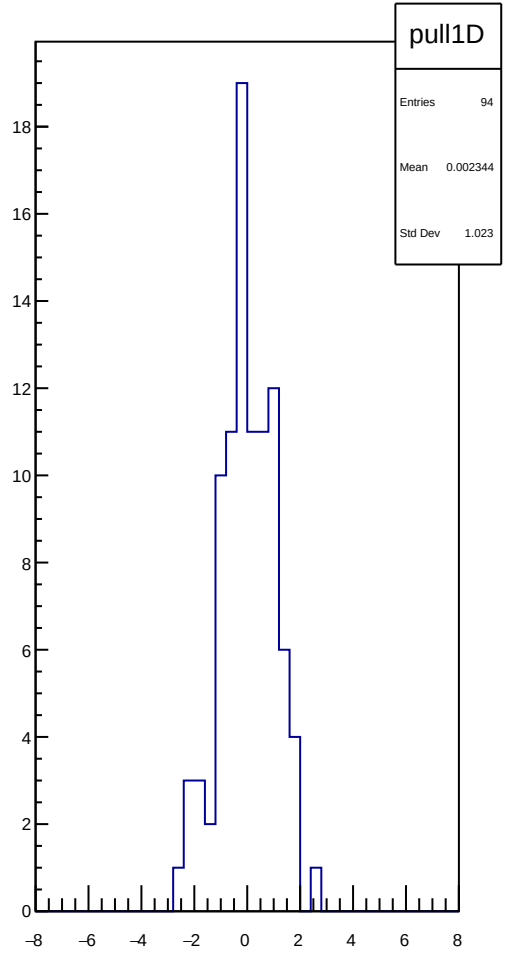

eigen_cor_asym_atl2_rms vs run
χ² / ndf 122.6 / 93
p0 2578 ± 1.941
2660
2640
2620
2600
2580
2560
2540
2520
2500

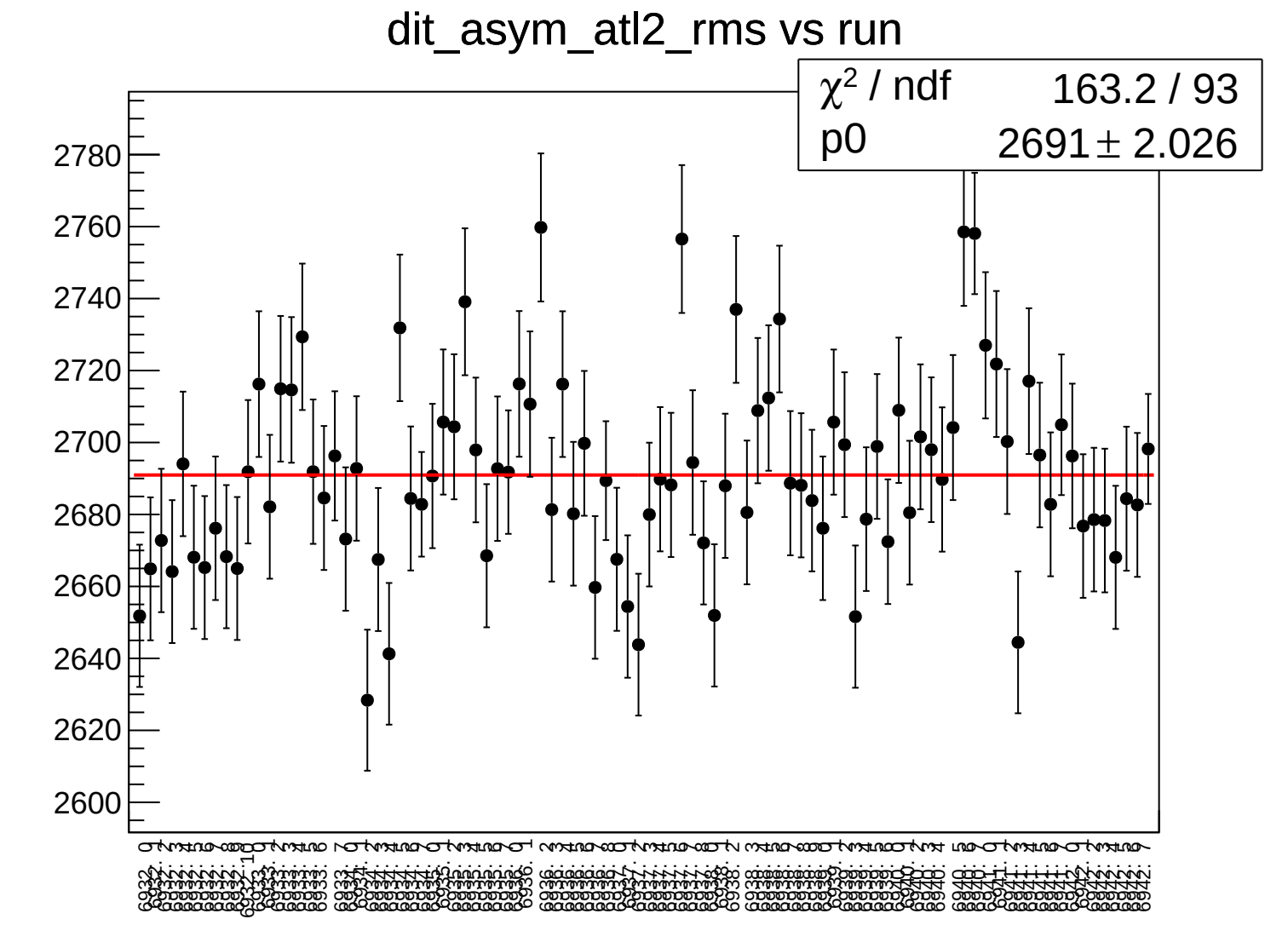

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 1.401e+04 ± 1.233e+04
pull
Entries 94
Mean 460.8
Std Dev 0

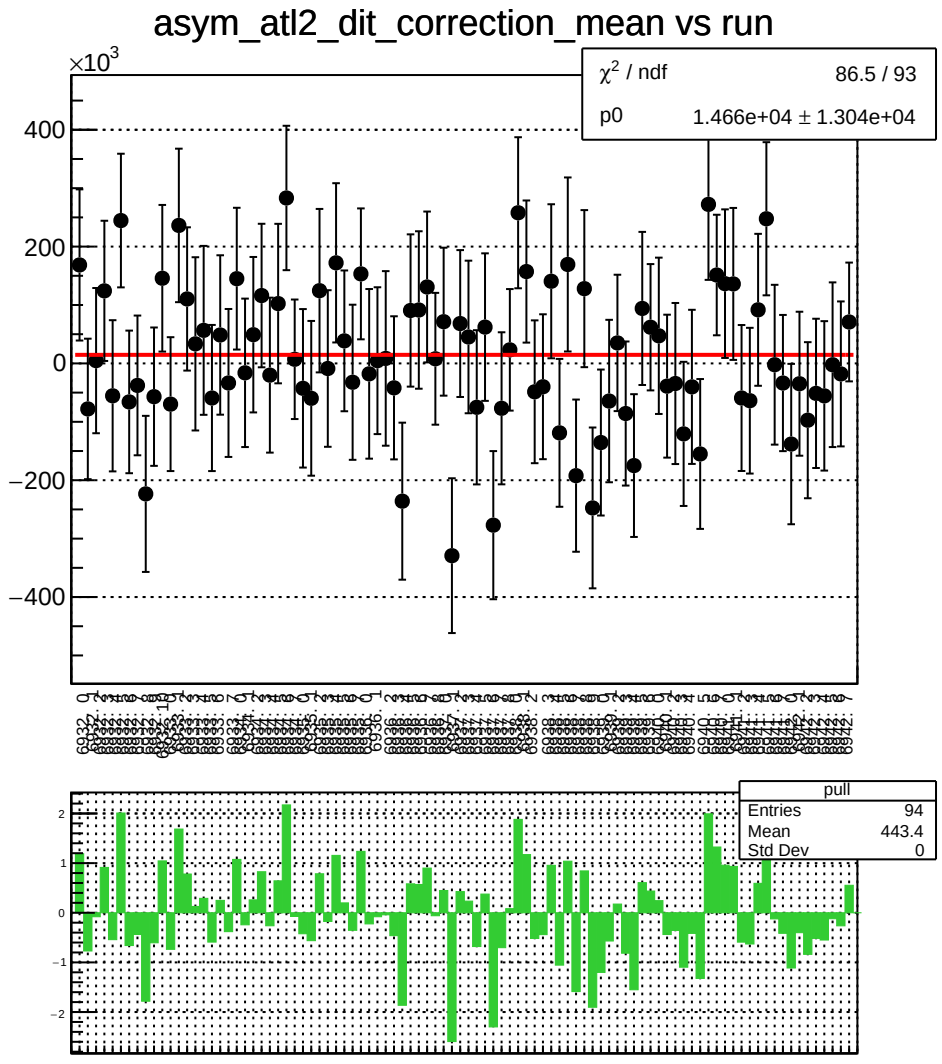

pull1D
Entries 94
Mean −0.007601
Std Dev 0.9614

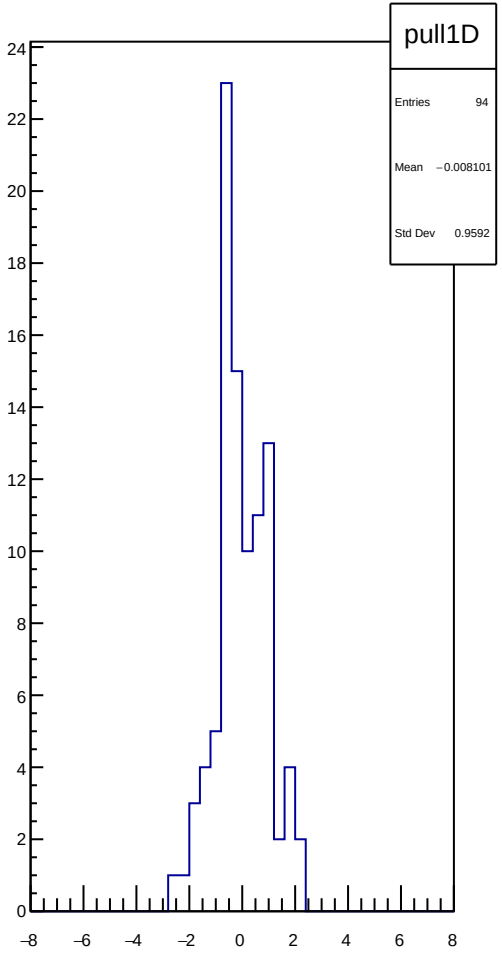

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 5752 / 93
p0 1.156e+04 ± 8.719
13500
13000
12500
12000
11500
11000
10500
10000

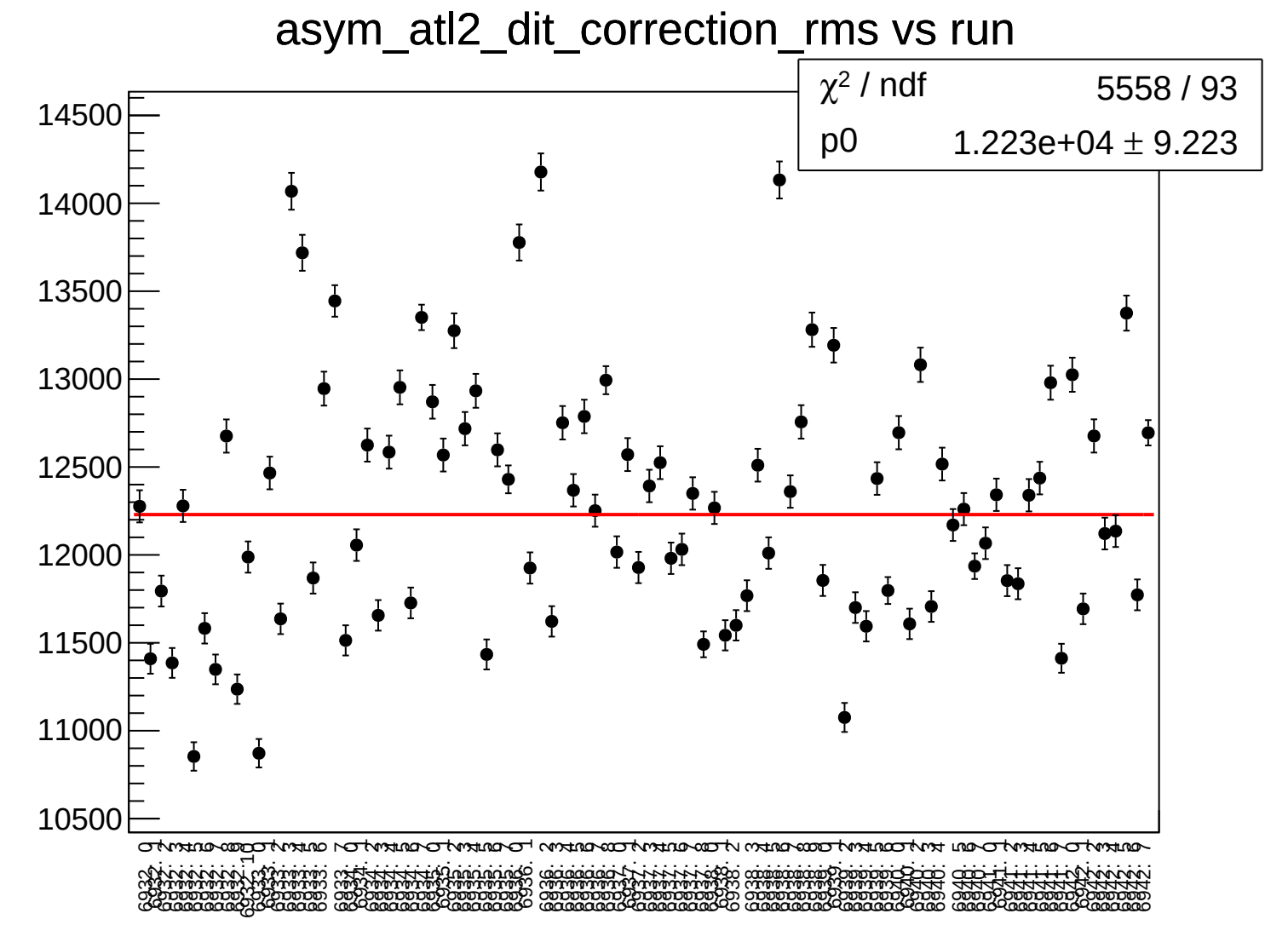

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 98.29 / 93
p0 −2037 ± 2866
100
50
0
−50
−100
pull
Entries 94
Mean −1681
Std Dev 0
2
1
0
−1
−2
−3

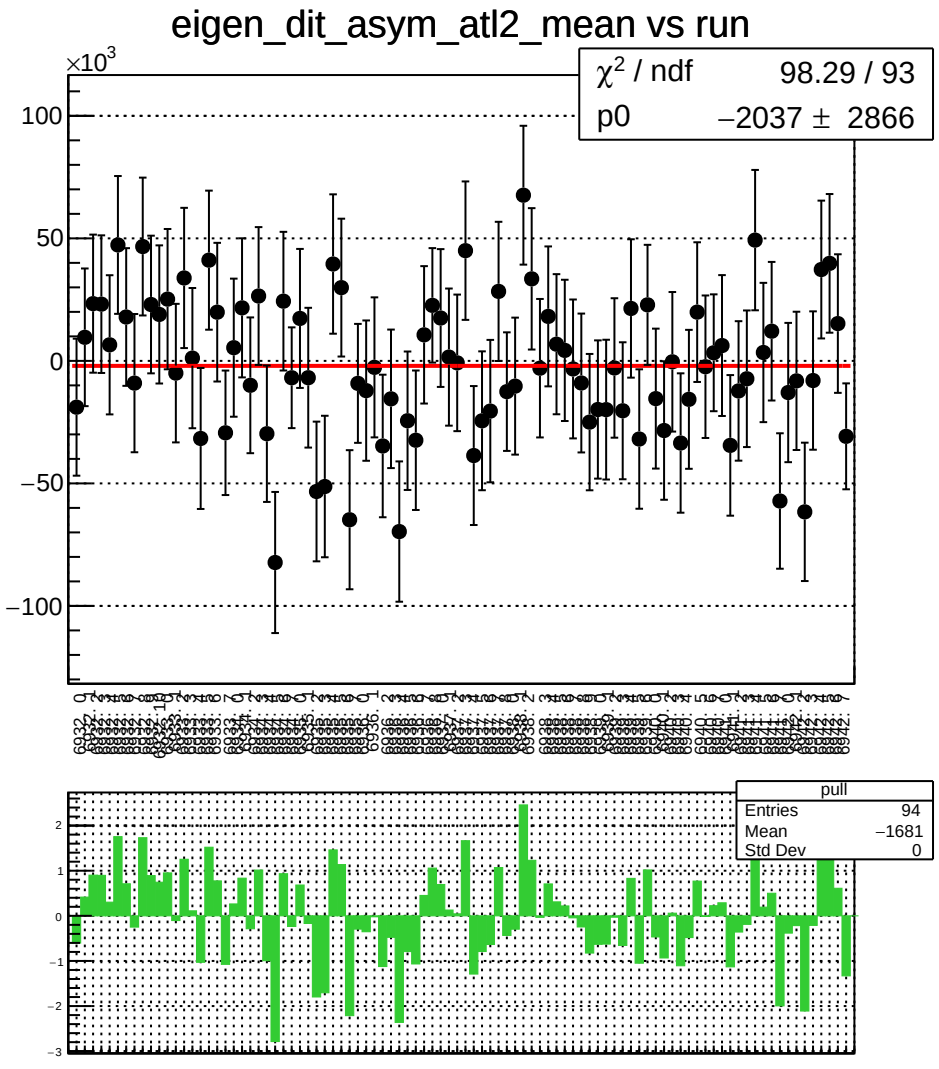

pull1D
Entries 94
Mean 0.002344
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

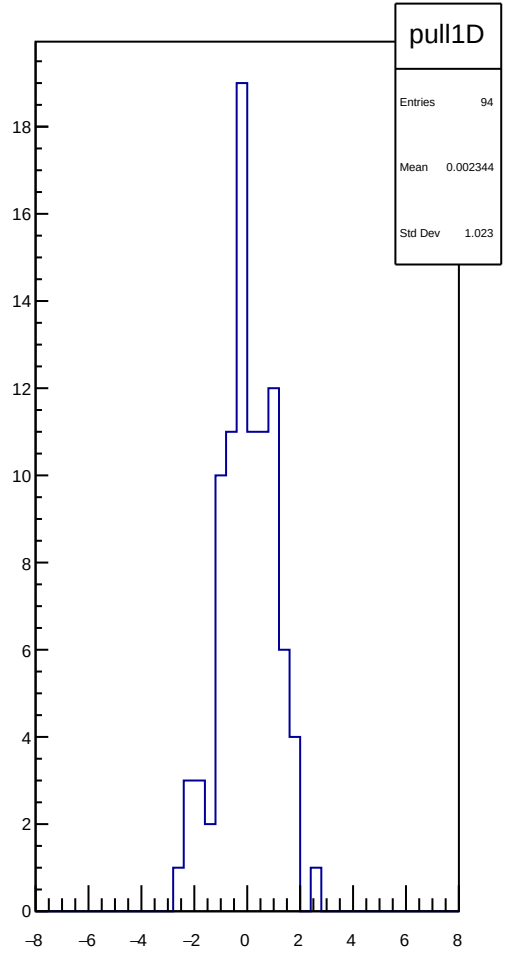

dit_asym_atl2_rms vs run
χ² / ndf 163.2 / 93
p0 2691 ± 2.026
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600

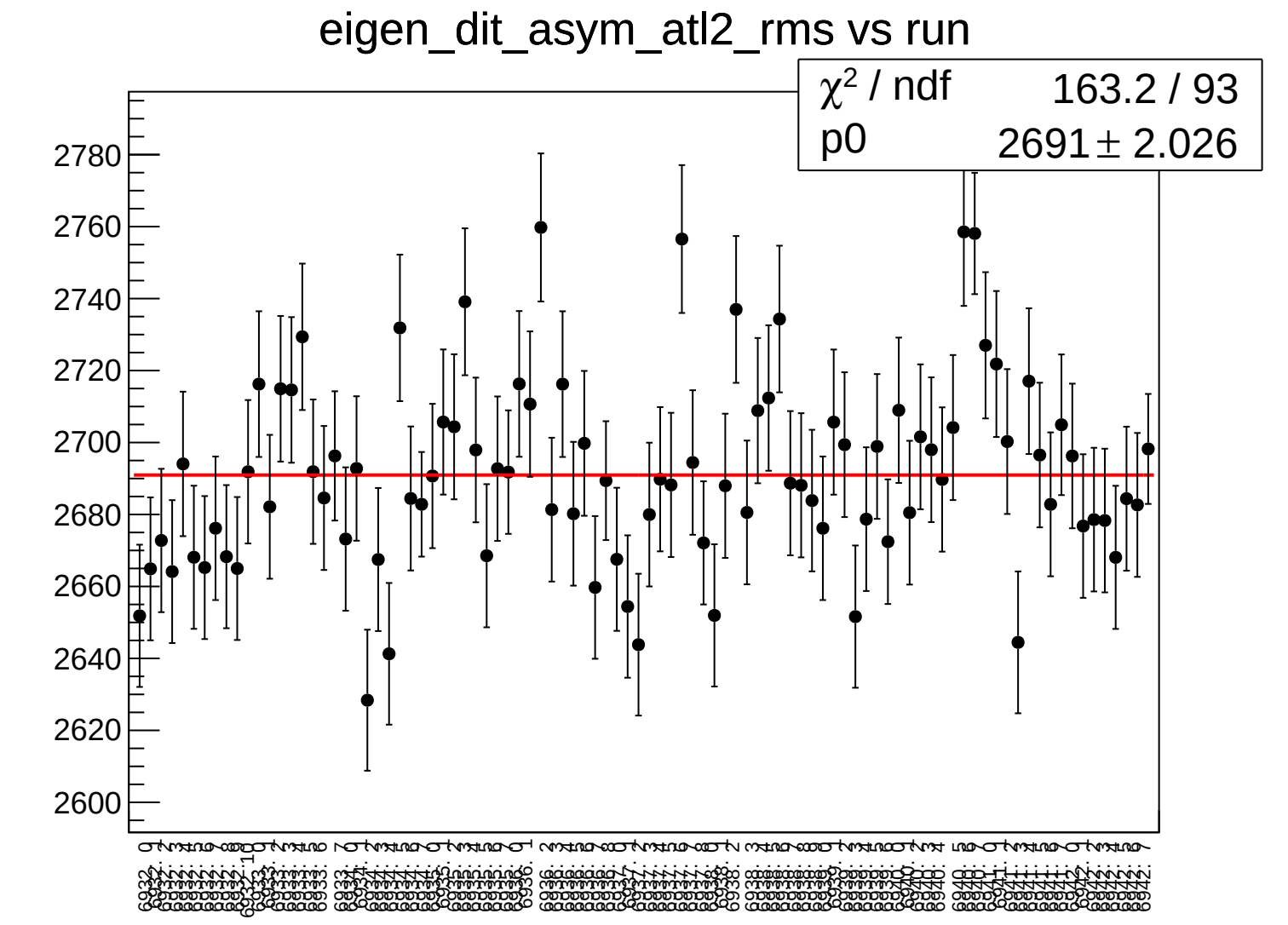

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 1.466e+04 ± 1.304e+04
400
200
0
−200
−400
pull
Entries 94
Mean 443.4
Std Dev 0
2
1
0
−1
−2

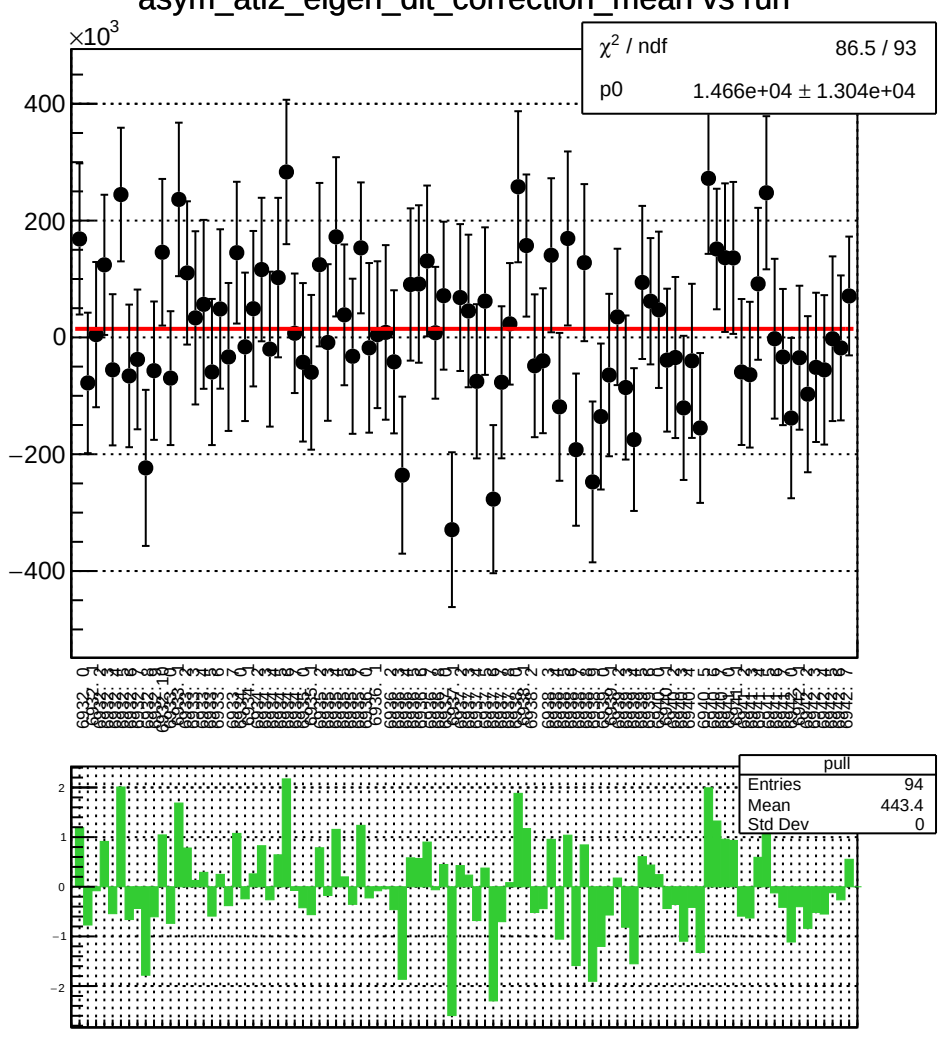

pull1D
Entries 94
Mean −0.008101
Std Dev 0.9592
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

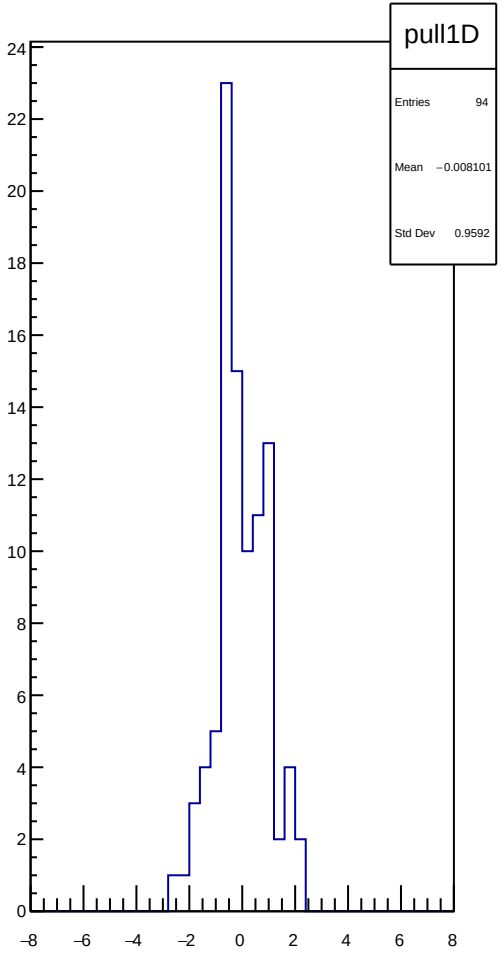

asym_atl2_dit_correction_rms vs run
χ² / ndf 5558 / 93
p0 1.223e+04 ± 9.223
14500
14000
13500
13000
12500
12000
11500
11000
10500

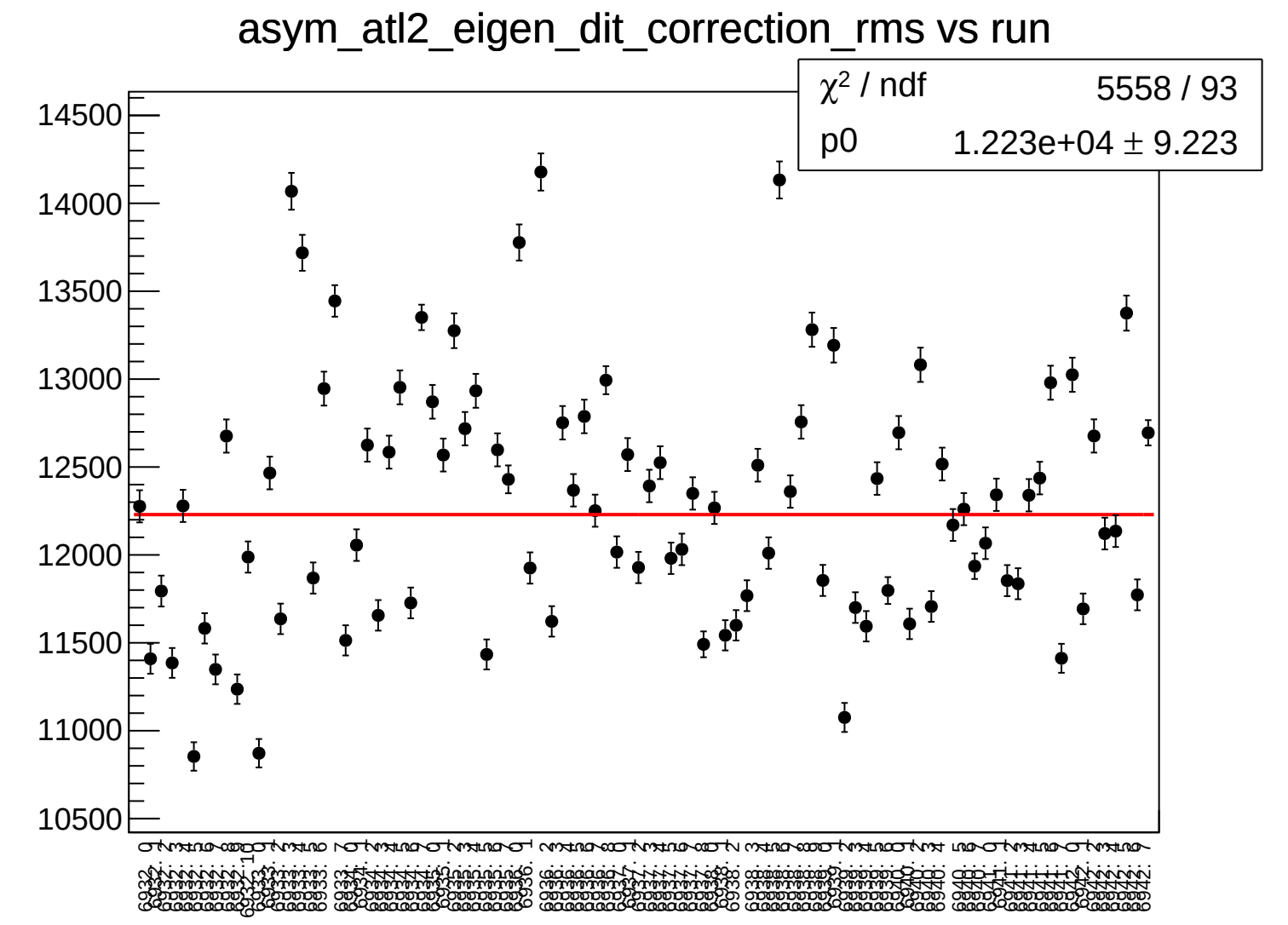

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 98.29 / 93
p0 −2037 ± 2866
100
50
0
−50
−100
pull
Entries 94
Mean −1681
Std Dev 0
2
1
0
−1
−2
−3

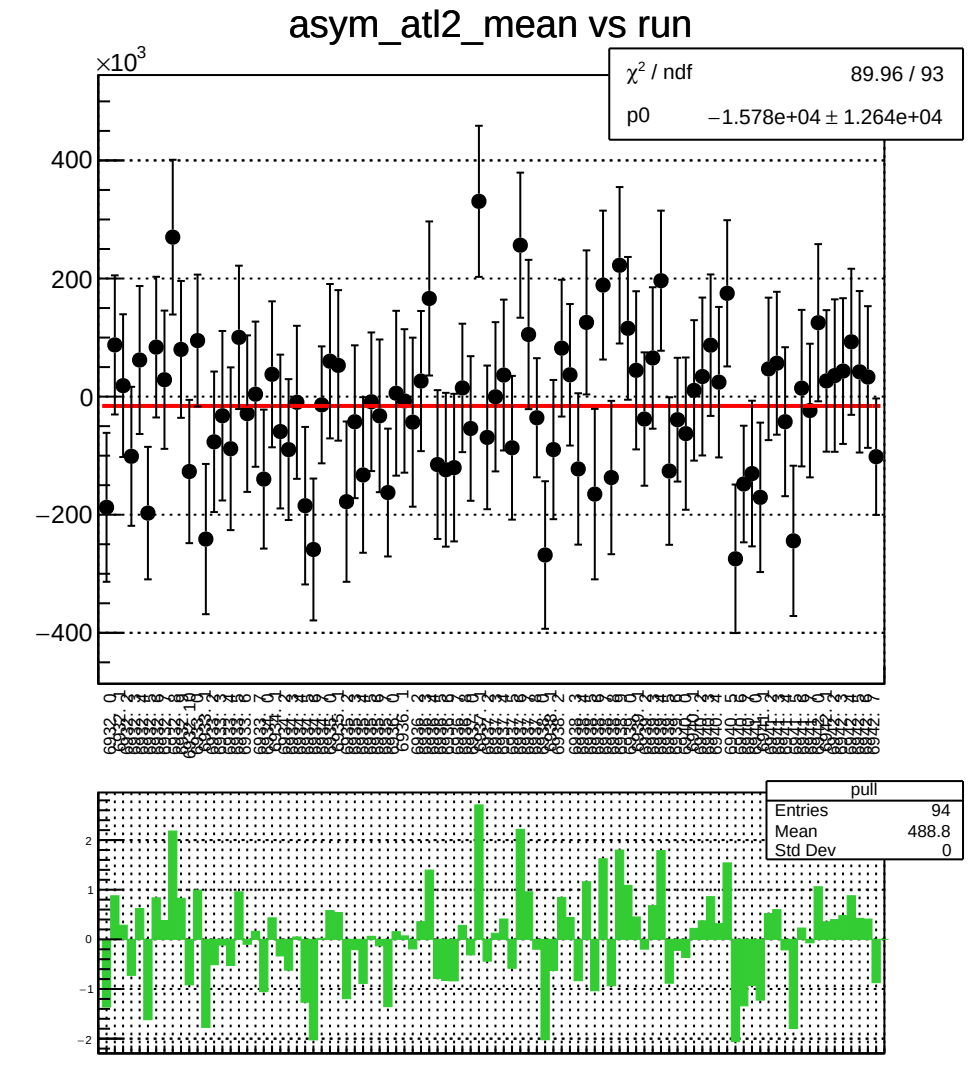

pull1D
Entries 94
Mean 0.002344
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

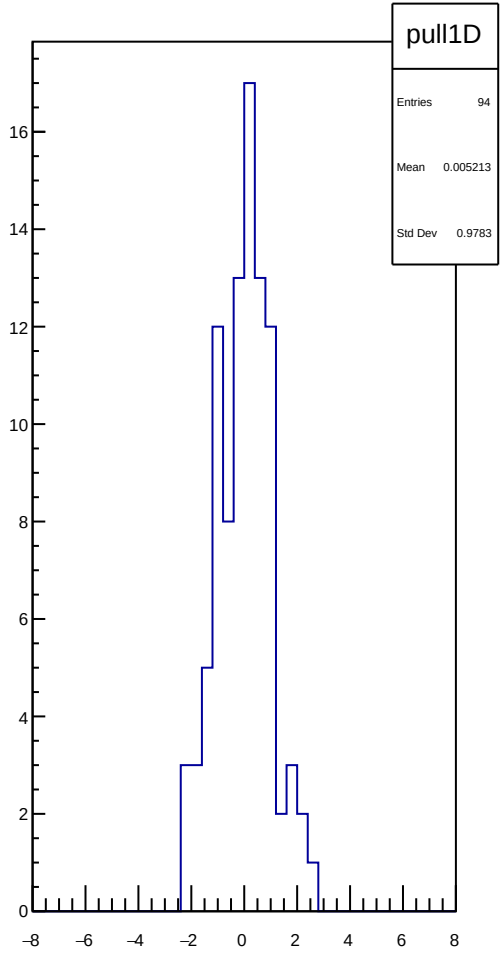

eigen_dit_asym_atl2_rms vs run
χ² / ndf 163.2 / 93
p0 2691 ± 2.026
2780
2760
2740
2720
2700
2680
2660
2640
2620
2600

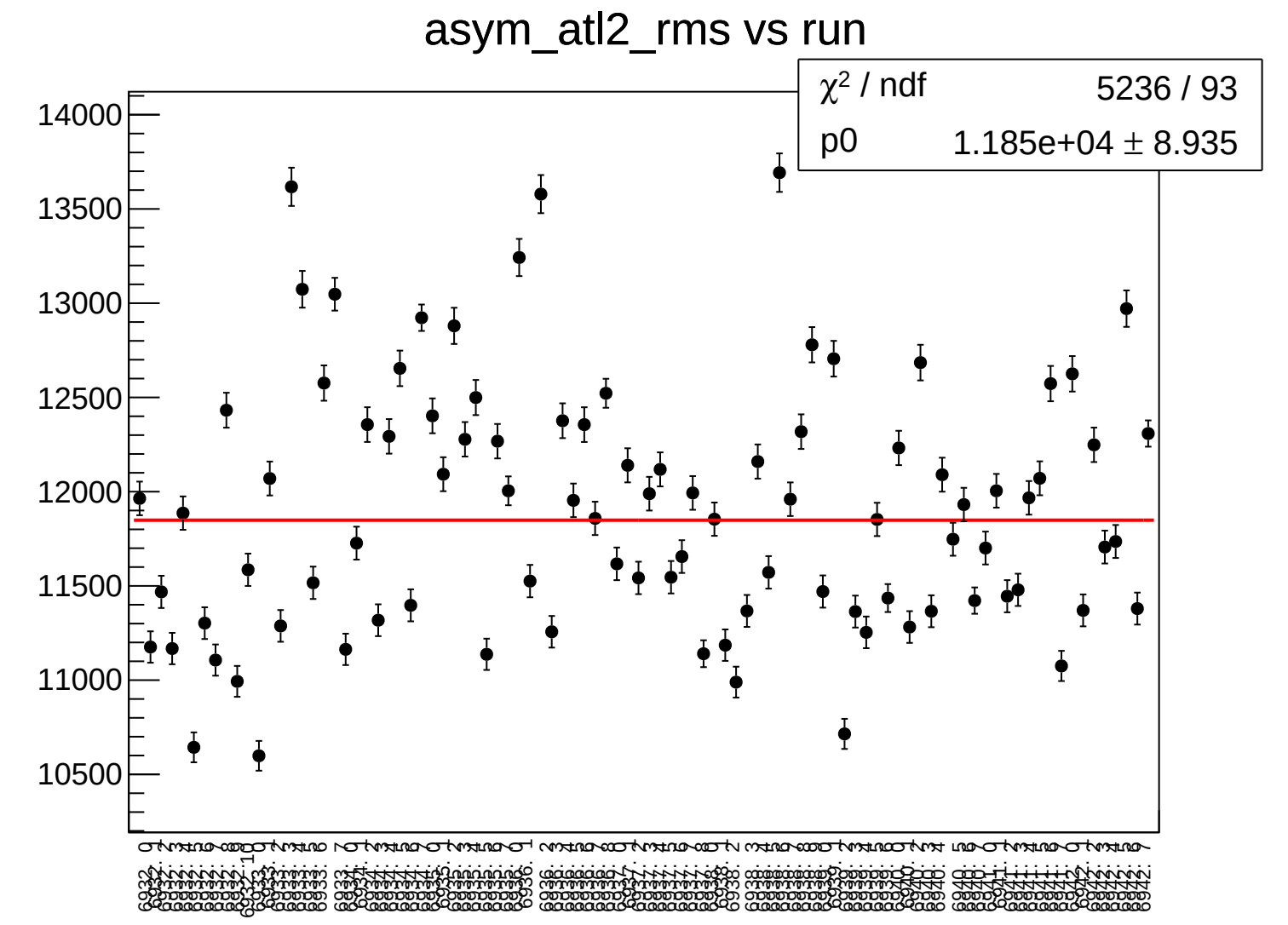

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 1.466e+04 ± 1.304e+04
400
200
0
−200
−400
pull
Entries 94
Mean 443.4
Std Dev 0
2
1
0
−1
−2

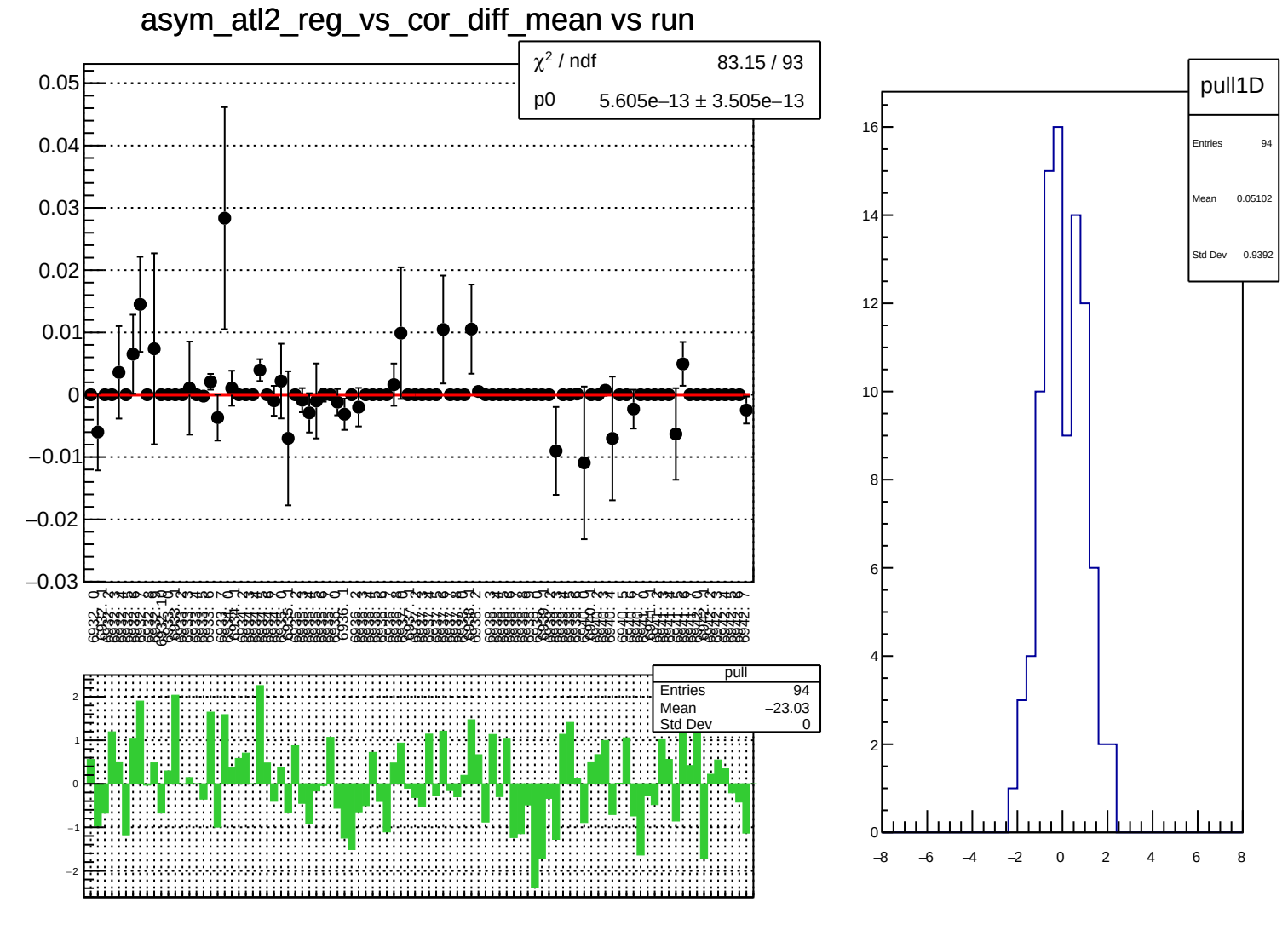

pull1D
Entries 94
Mean −0.008101
Std Dev 0.9592
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

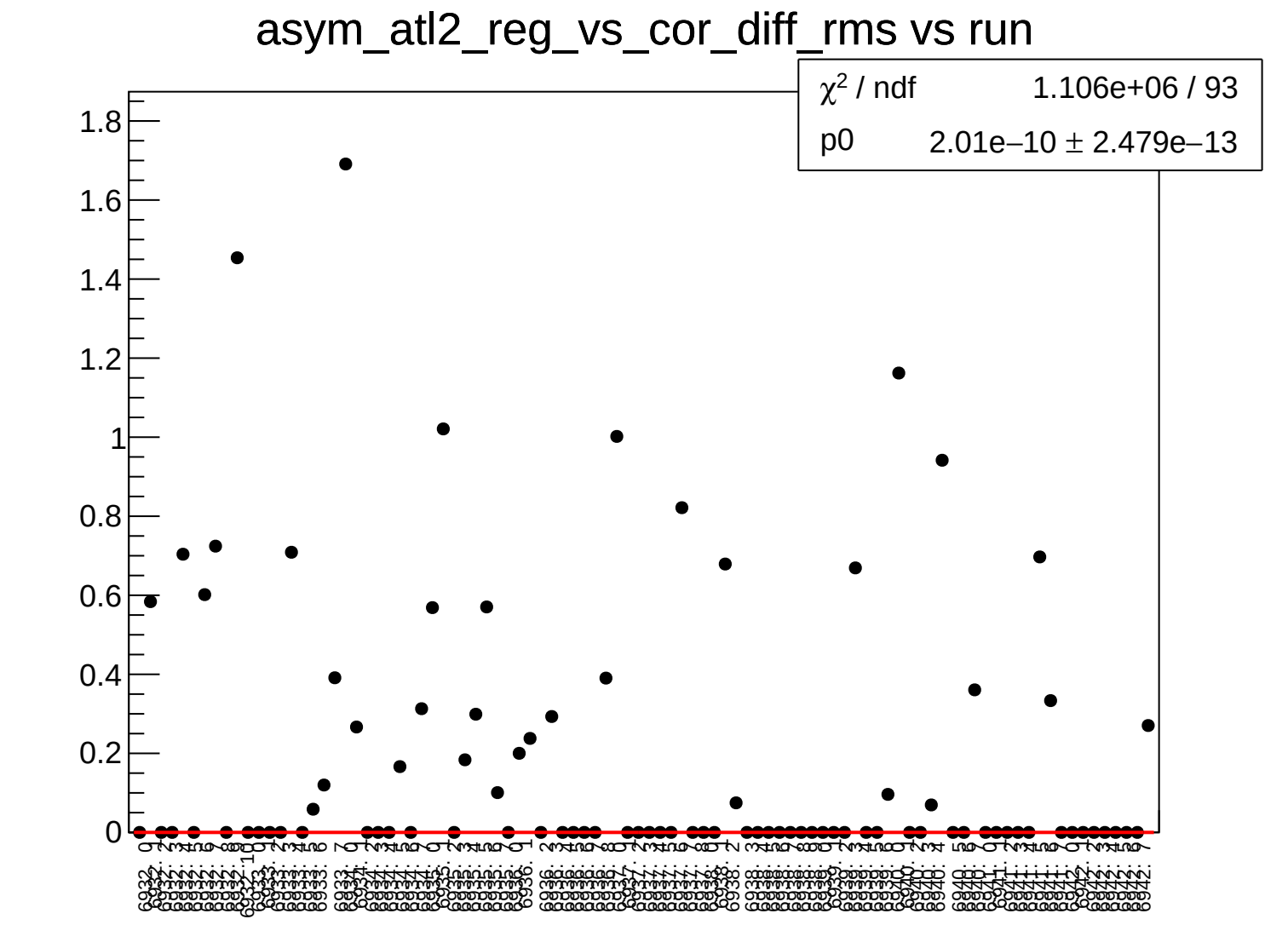

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 5558 / 93
p0 1.223e+04 ± 9.223
14500
14000
13500
13000
12500
12000
11500
11000
10500

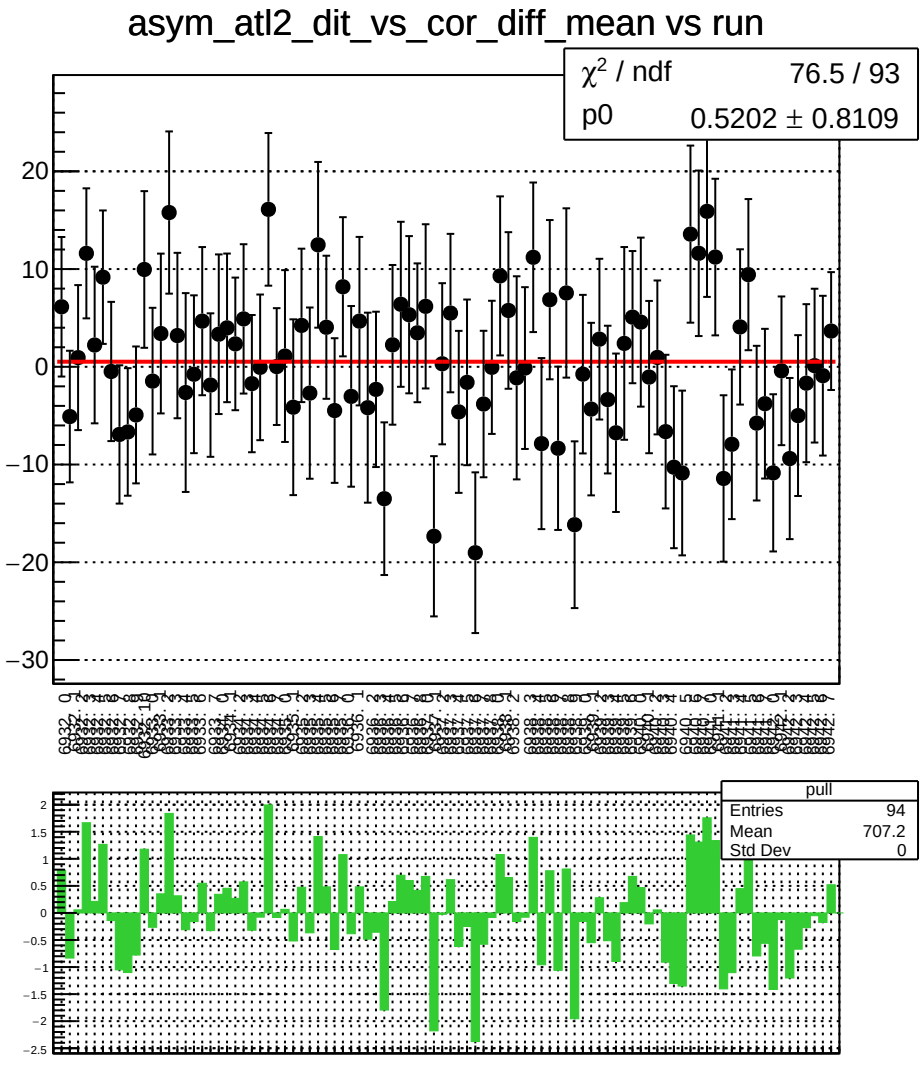

asym_atl2_mean vs run
×10^3
χ² / ndf 89.96 / 93
p0 −1.578e+04 ± 1.264e+04
400
200
0
−200
−400
pull
Entries 94
Mean 488.8
Std Dev 0
2
1
0
−1
−2

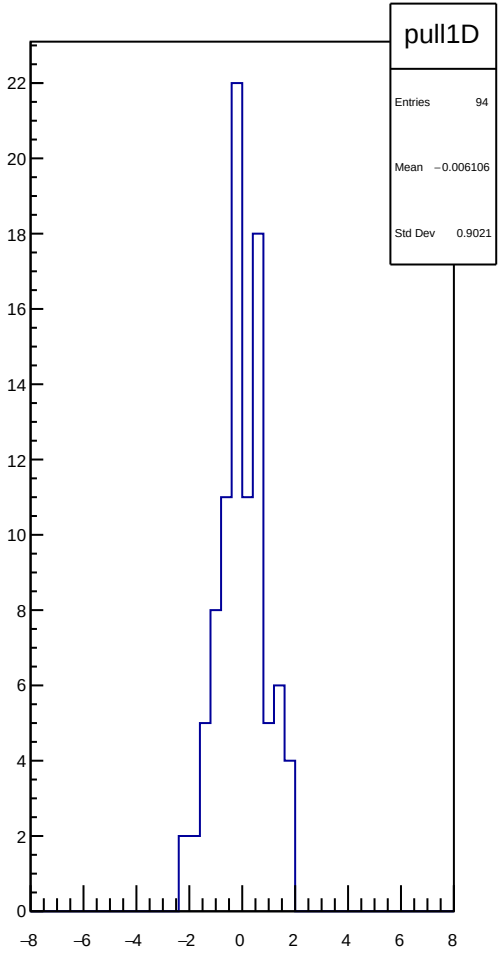

pull1D
Entries 94
Mean 0.005213
Std Dev 0.9783
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

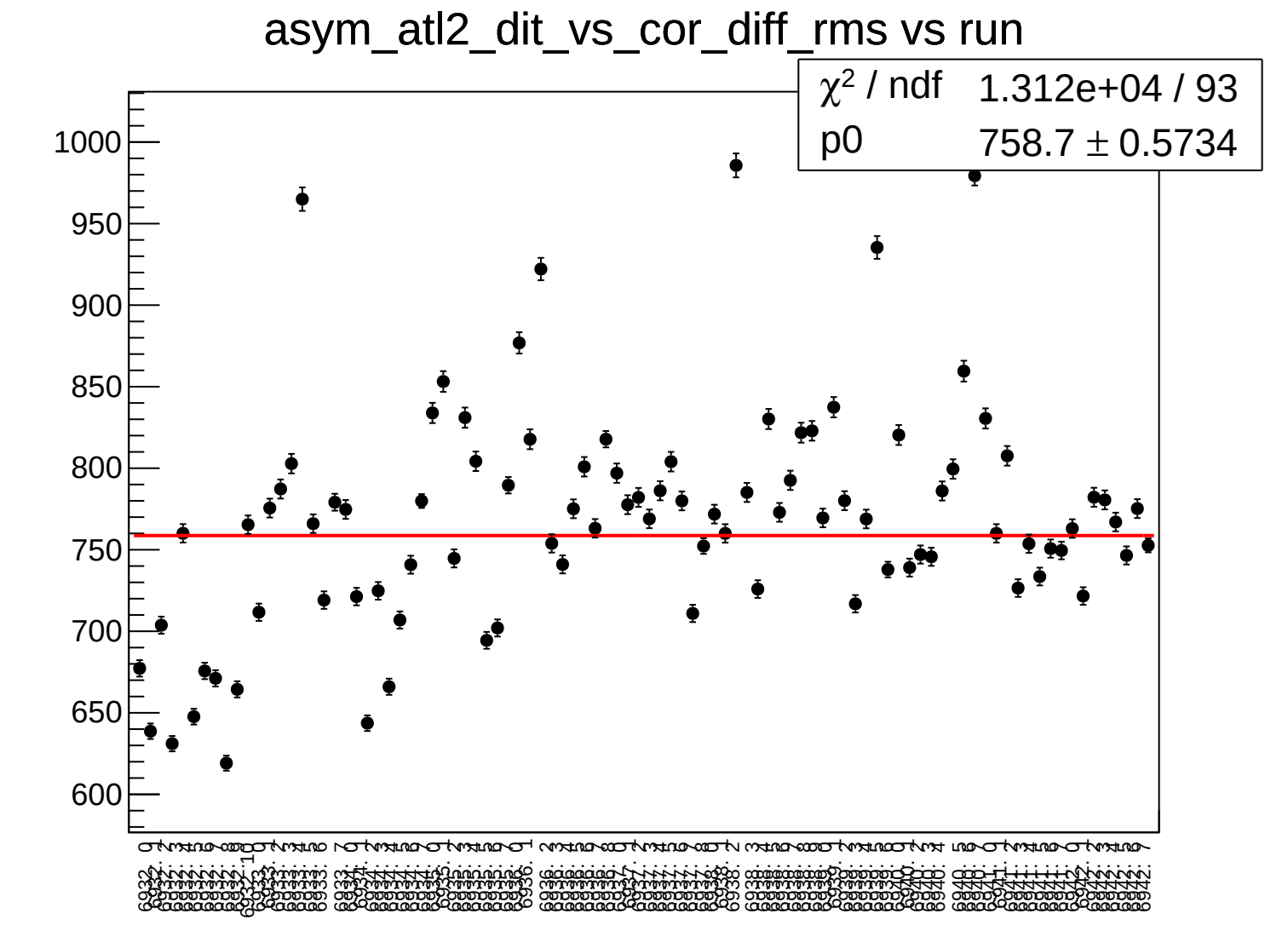

asym_atl2_rms vs run
χ² / ndf 5236 / 93
p0 1.185e+04 ± 8.935
14000
13500
13000
12500
12000
11500
11000
10500

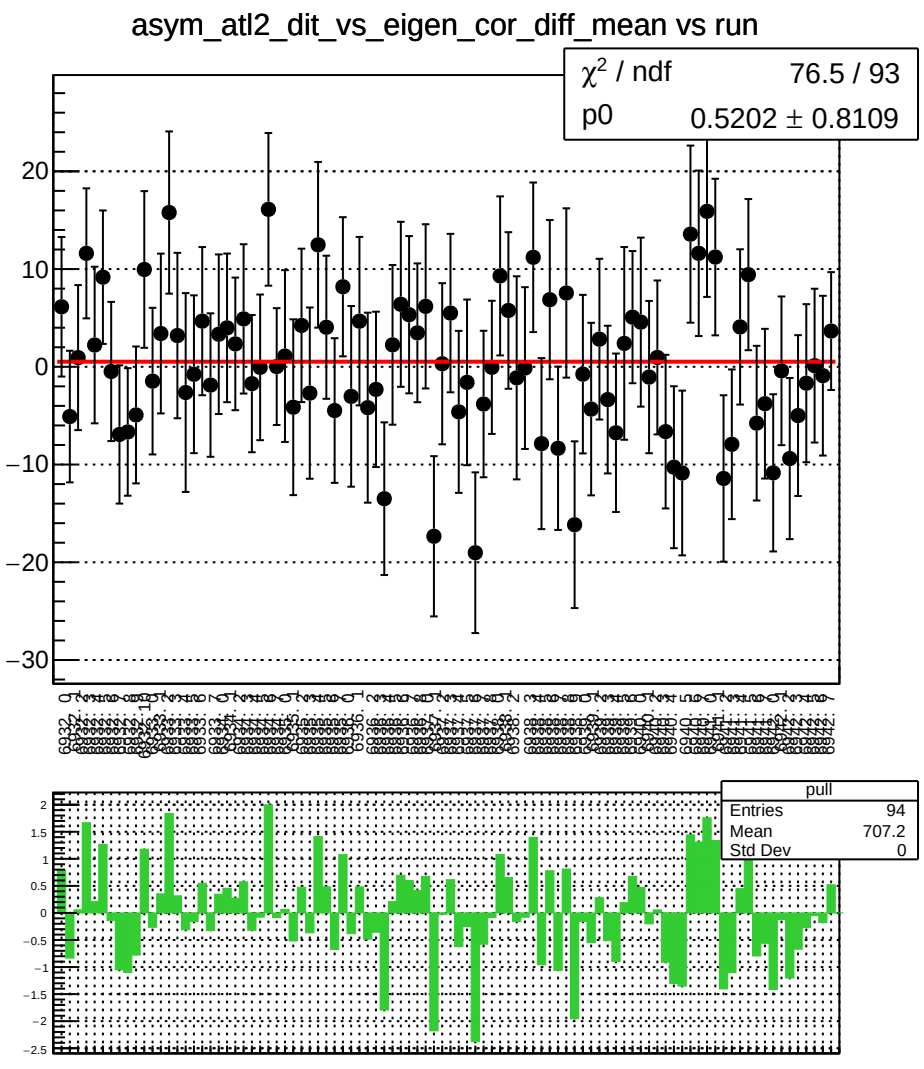

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 83.15 / 93
p0 5.605e−13 ± 3.505e−13
pull
Entries 94
Mean −23.03
Std Dev 0
pull1D
Entries 94
Mean 0.05102
Std Dev 0.9392

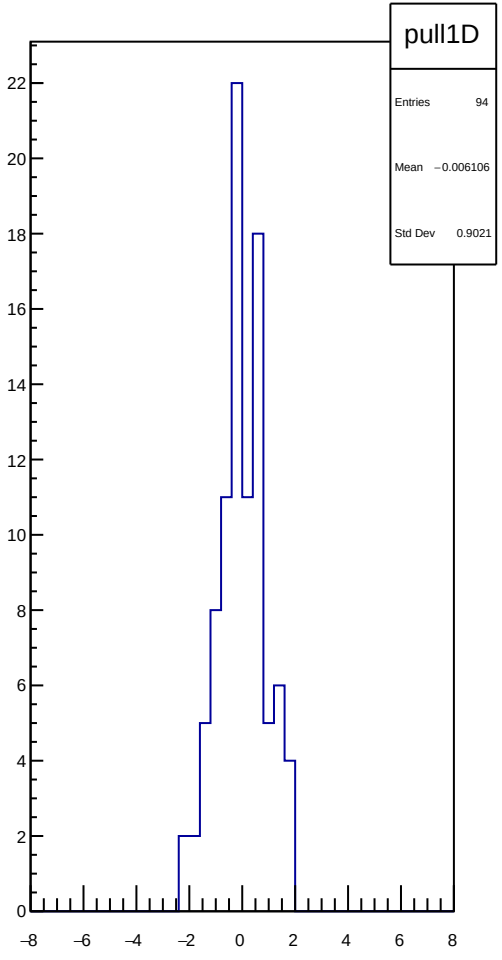

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 93
p0 2.01e−10 ± 2.479e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

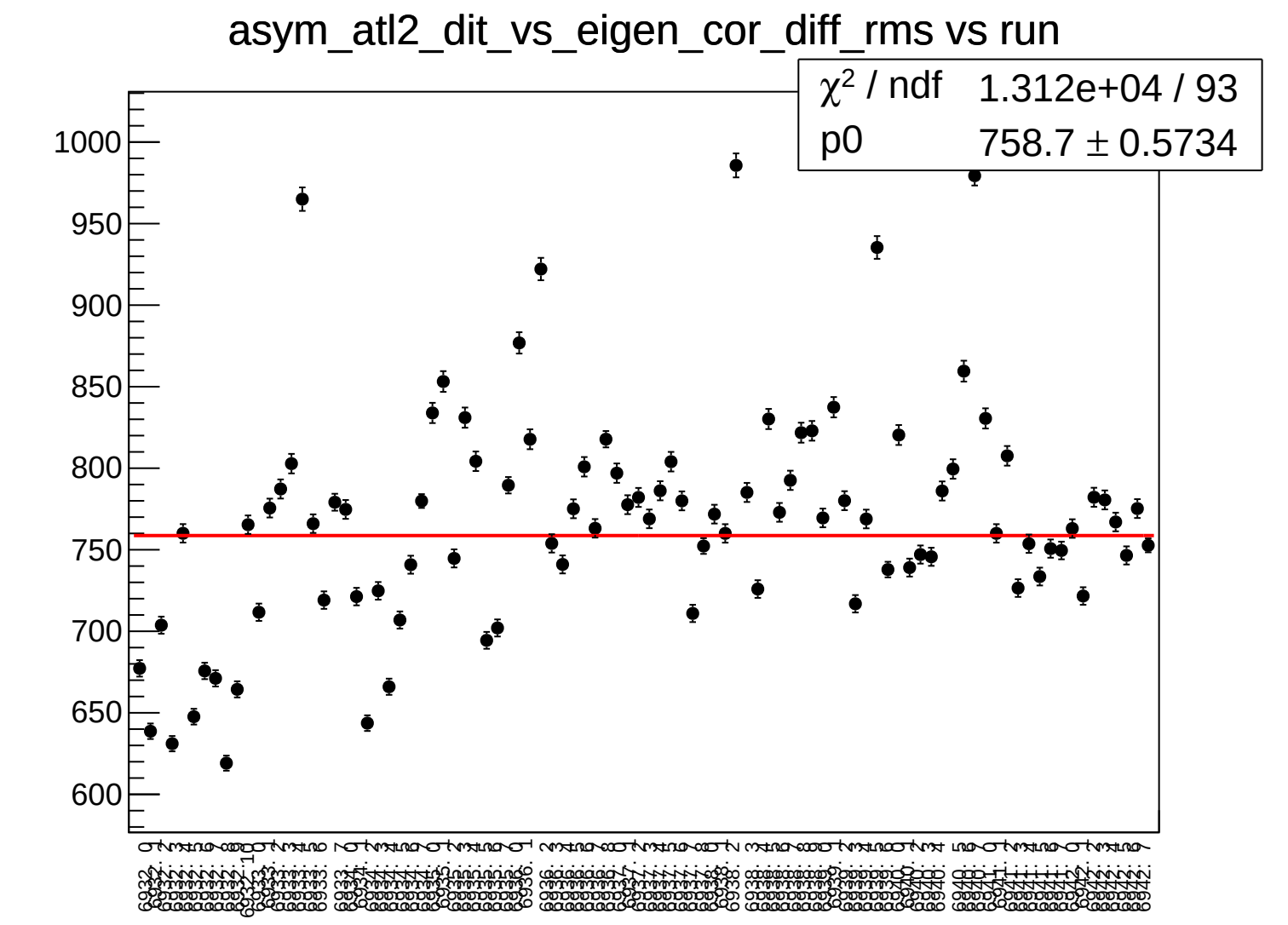

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 76.5 / 93
p0 0.5202 ± 0.8109
pull
Entries 94
Mean 707.2
Std Dev 0

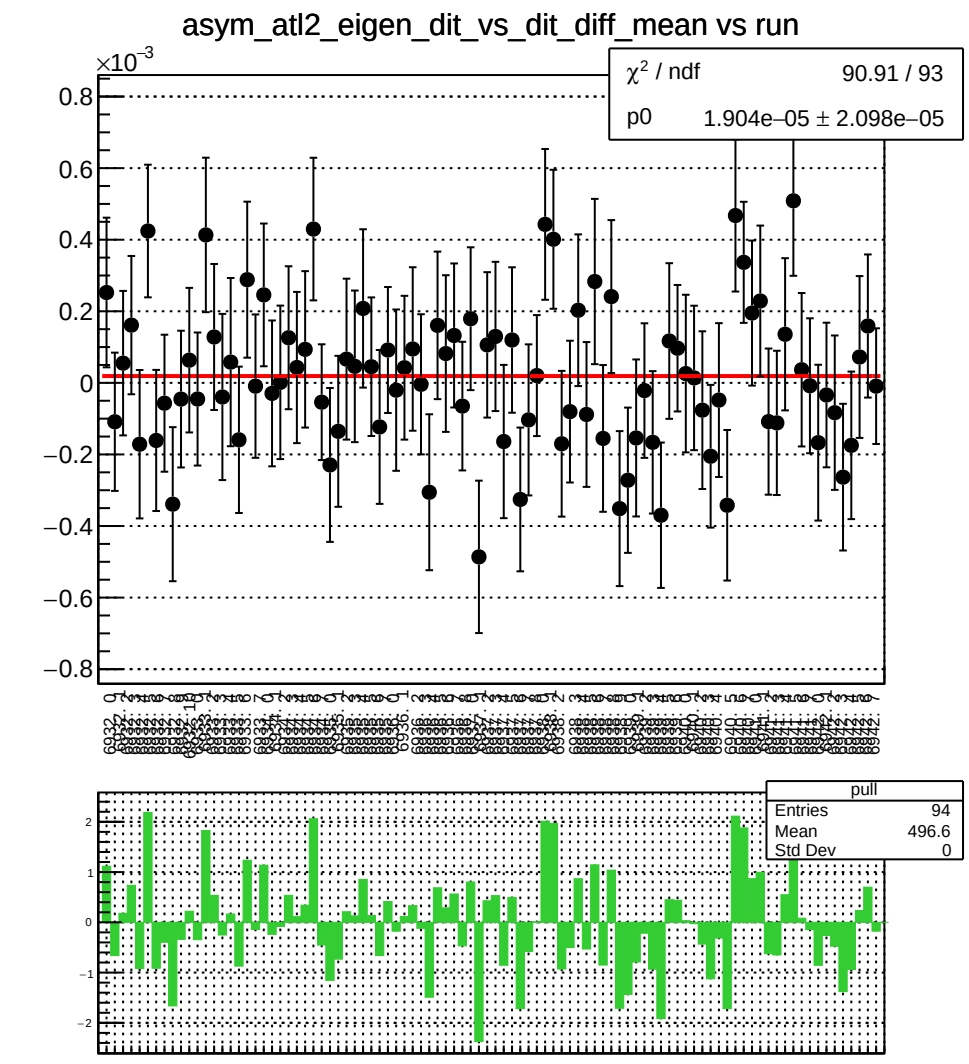

pull1D
Entries 94
Mean −0.006106
Std Dev 0.9021

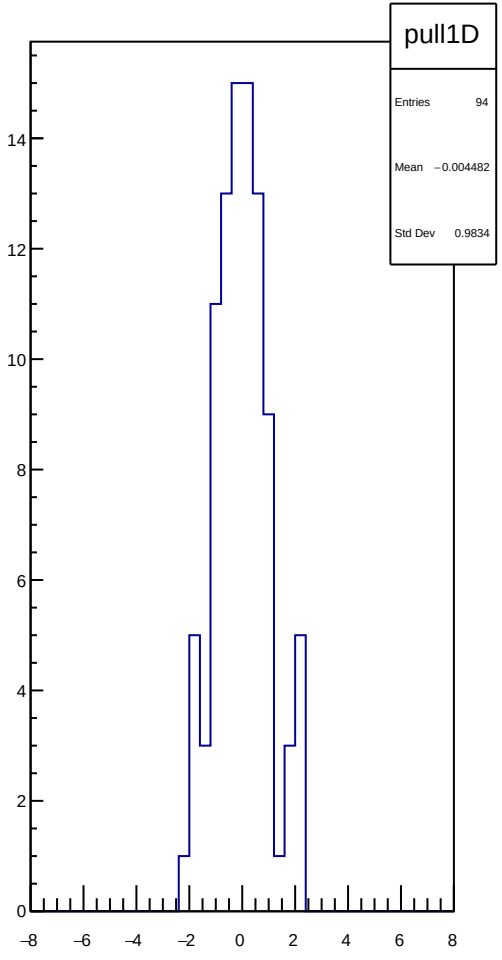

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 93
p0 758.7 ± 0.5734
1000
950
900
850
800
750
700
650
600

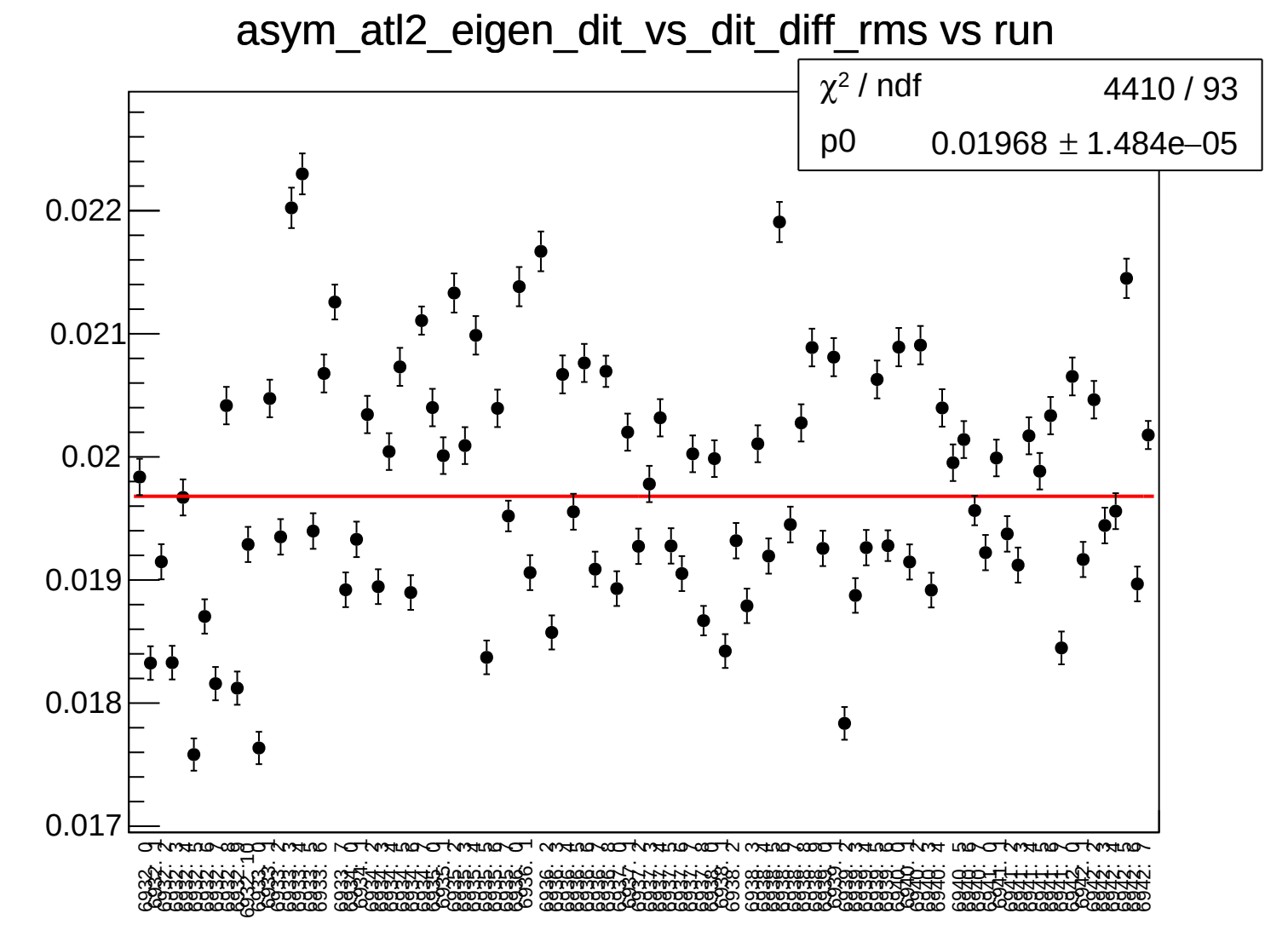

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.5 / 93
p0 0.5202 ± 0.8109
pull
Entries 94
Mean 707.2
Std Dev 0

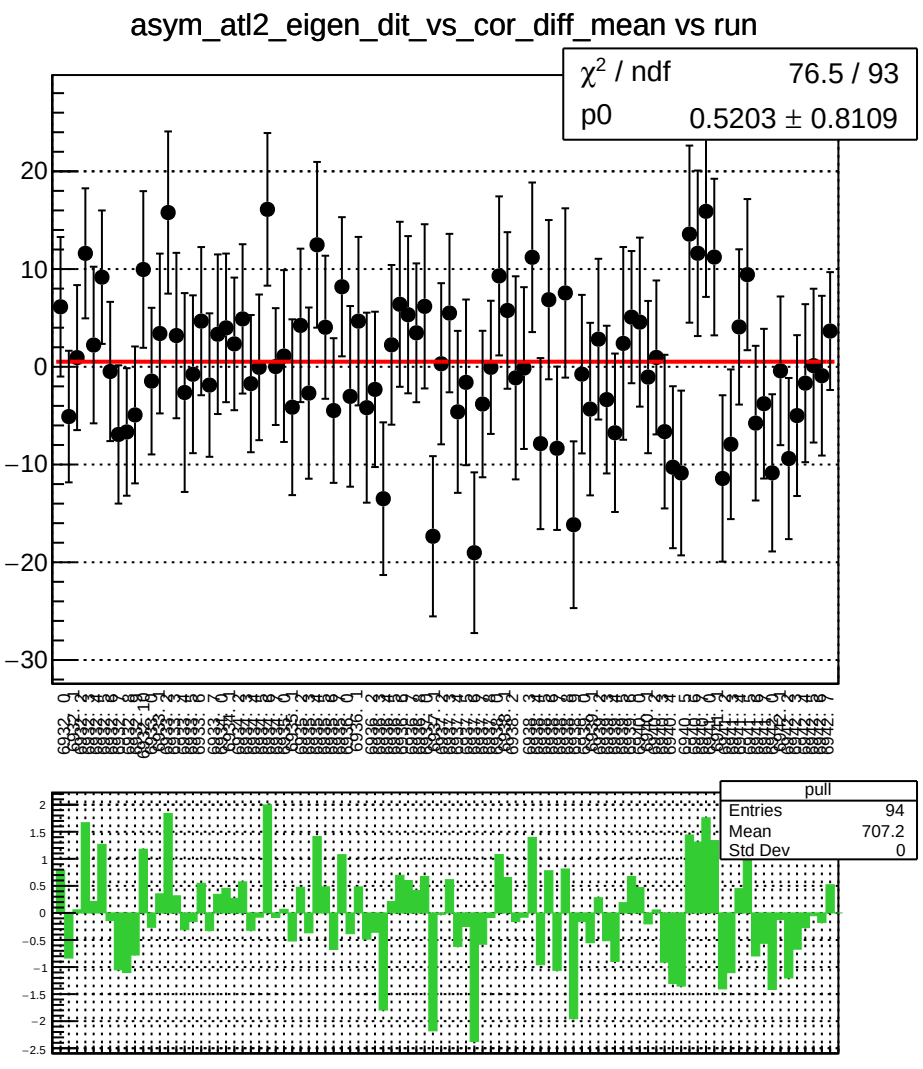

pull1D
Entries 94
Mean −0.006106
Std Dev 0.9021

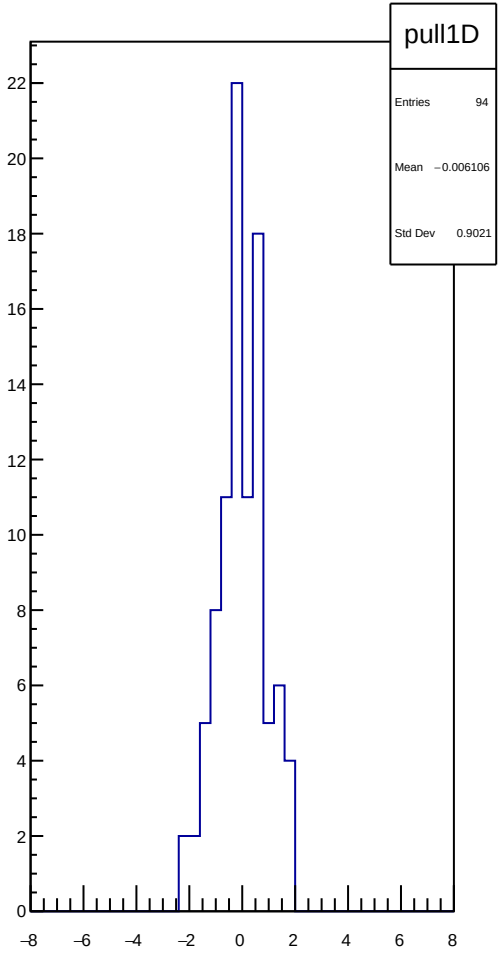

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 93
p0 758.7 ± 0.5734
1000
950
900
850
800
750
700
650
600

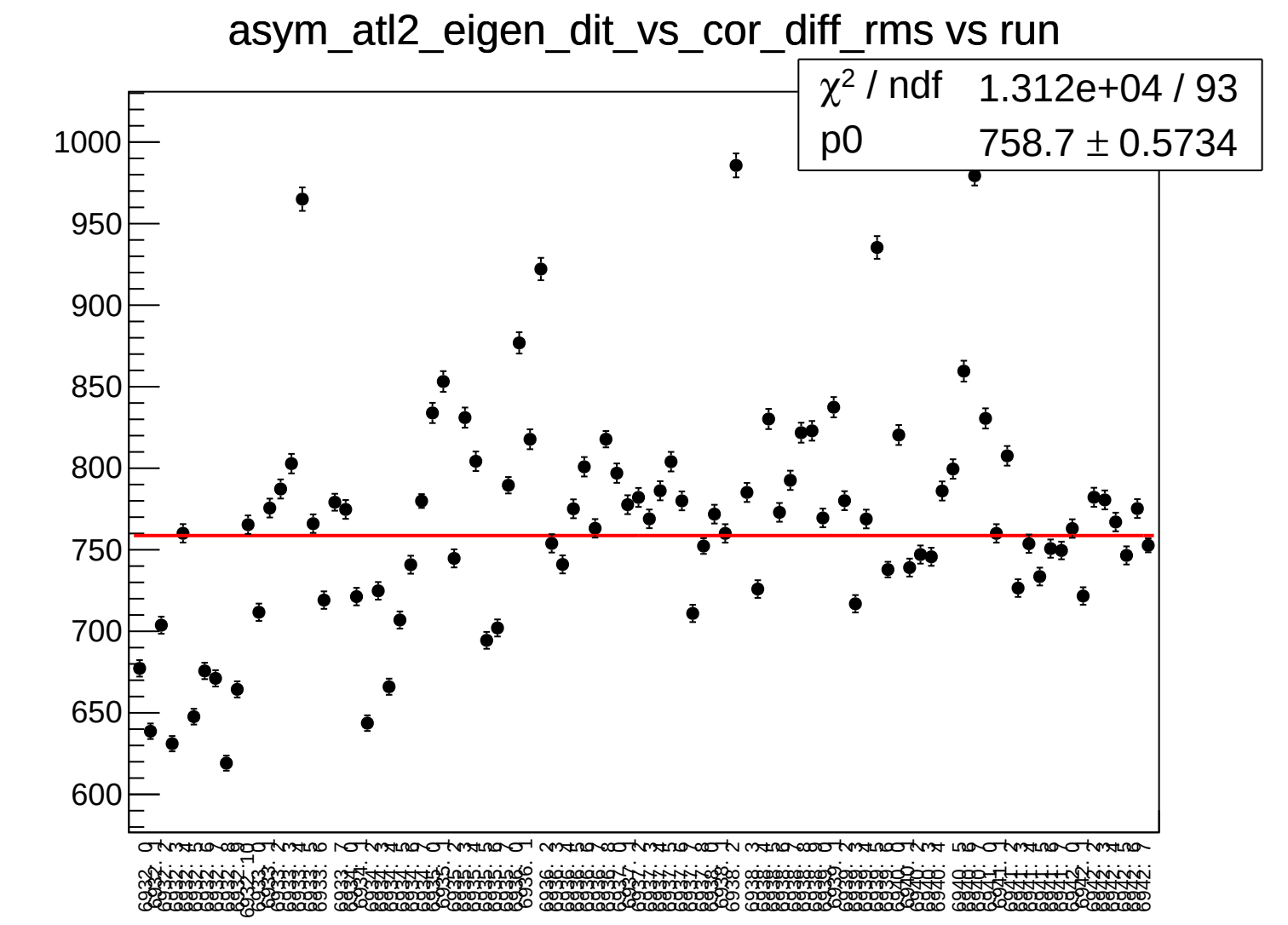

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.91 / 93
p0 1.904e−05 ± 2.098e−05
pull
Entries 94
Mean 496.6
Std Dev 0

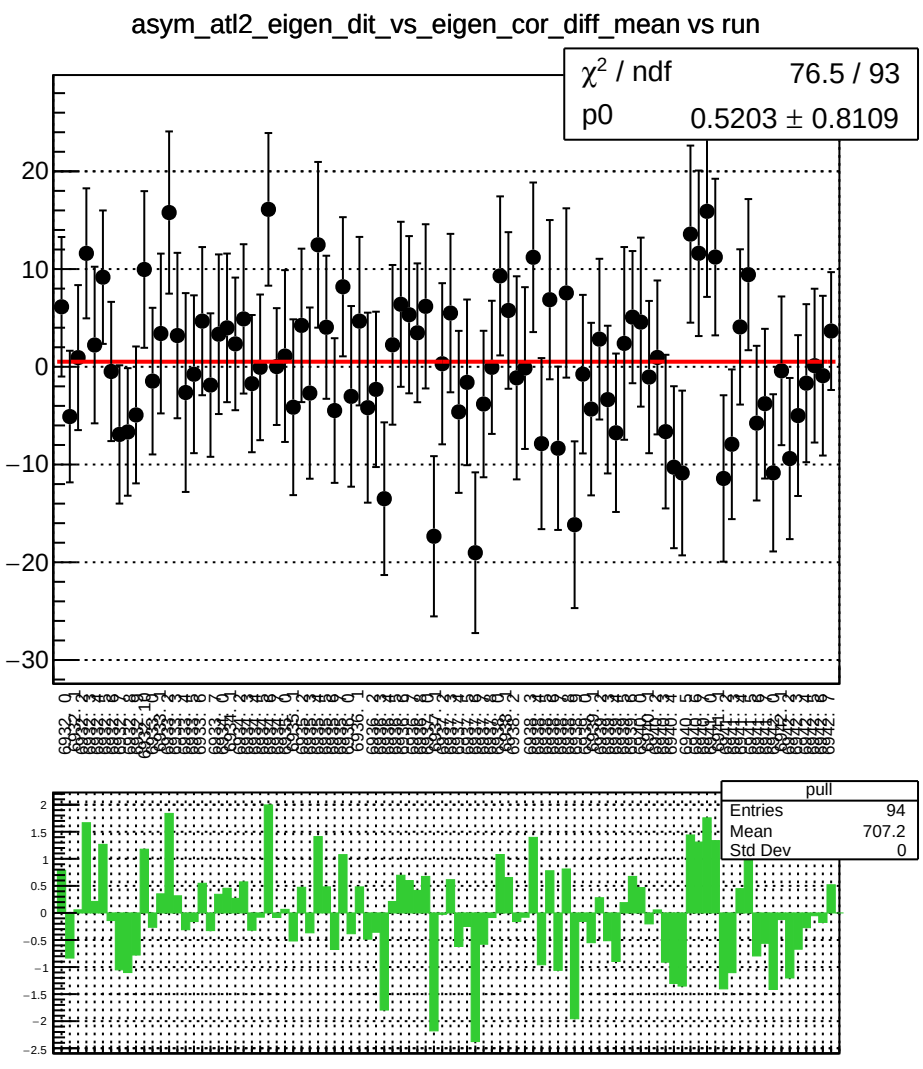

pull1D
Entries 94
Mean −0.004482
Std Dev 0.9834

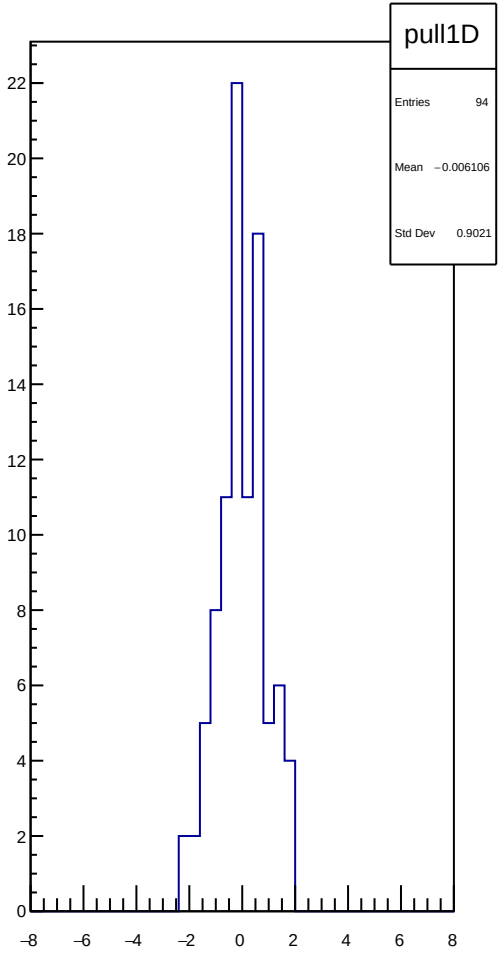

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4410 / 93
p0 0.01968 ± 1.484e−05
0.022
0.021
0.02
0.019
0.018
0.017

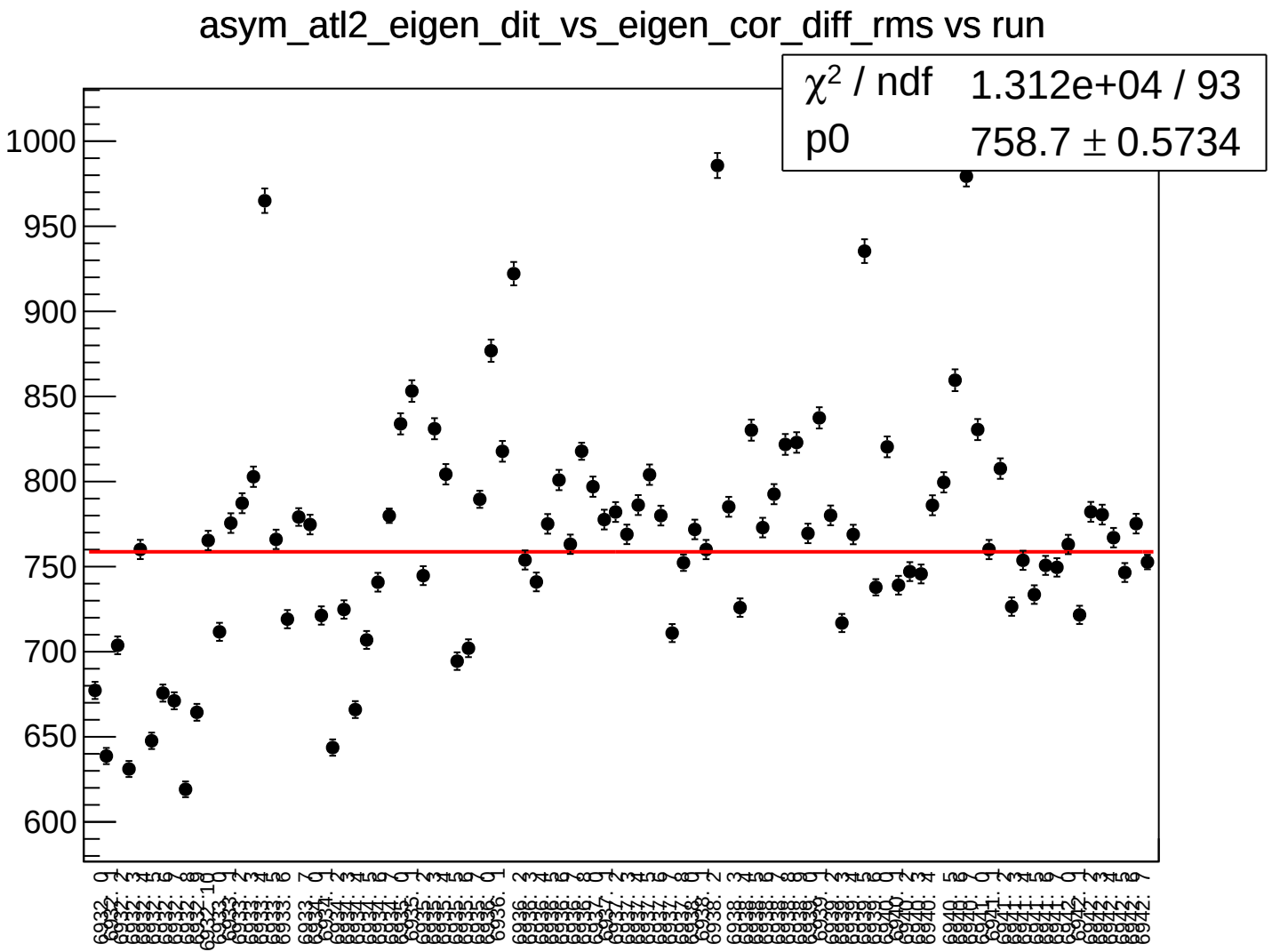

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.5 / 93
p0 0.5203 ± 0.8109
pull
Entries 94
Mean 707.2
Std Dev 0

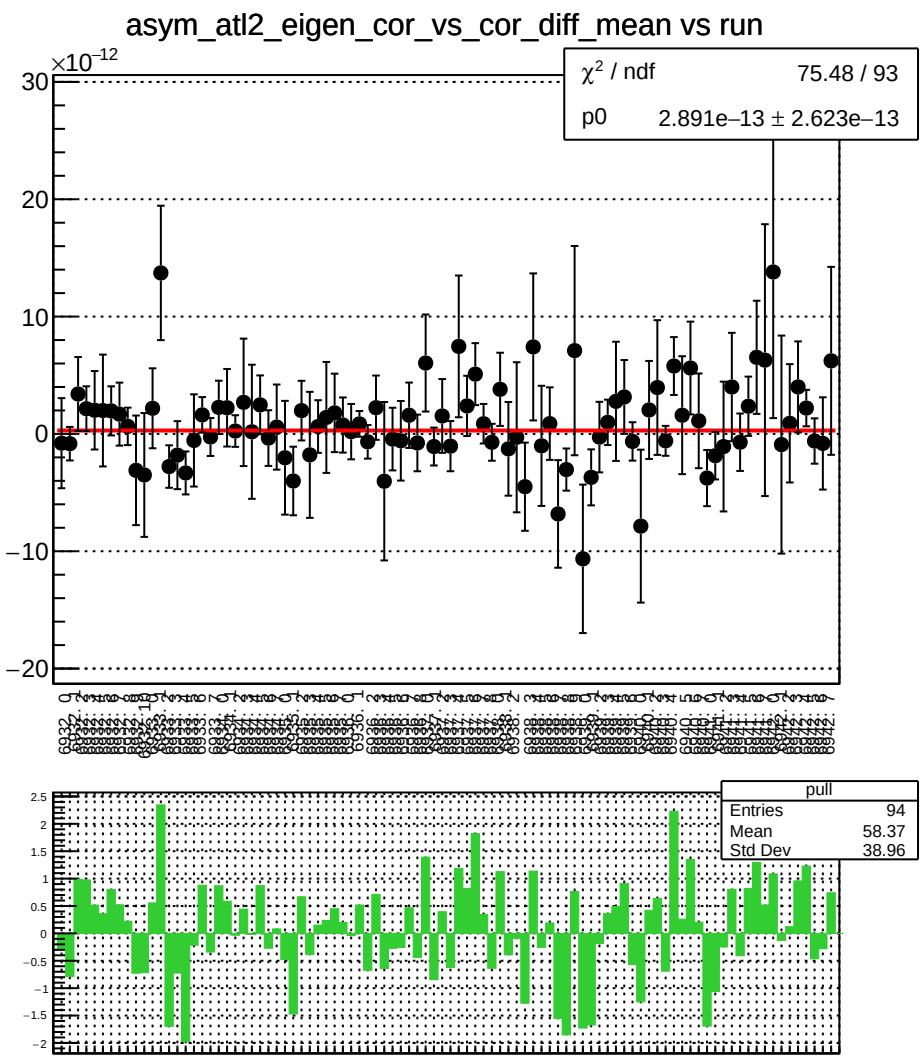

pull1D
Entries 94
Mean −0.006106
Std Dev 0.9021

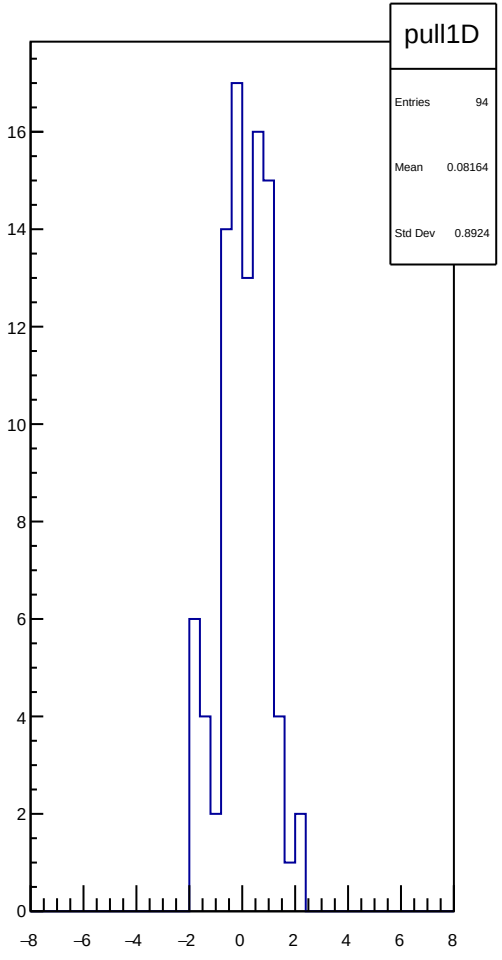

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 93
p0 758.7 ± 0.5734
1000
950
900
850
800
750
700
650
600

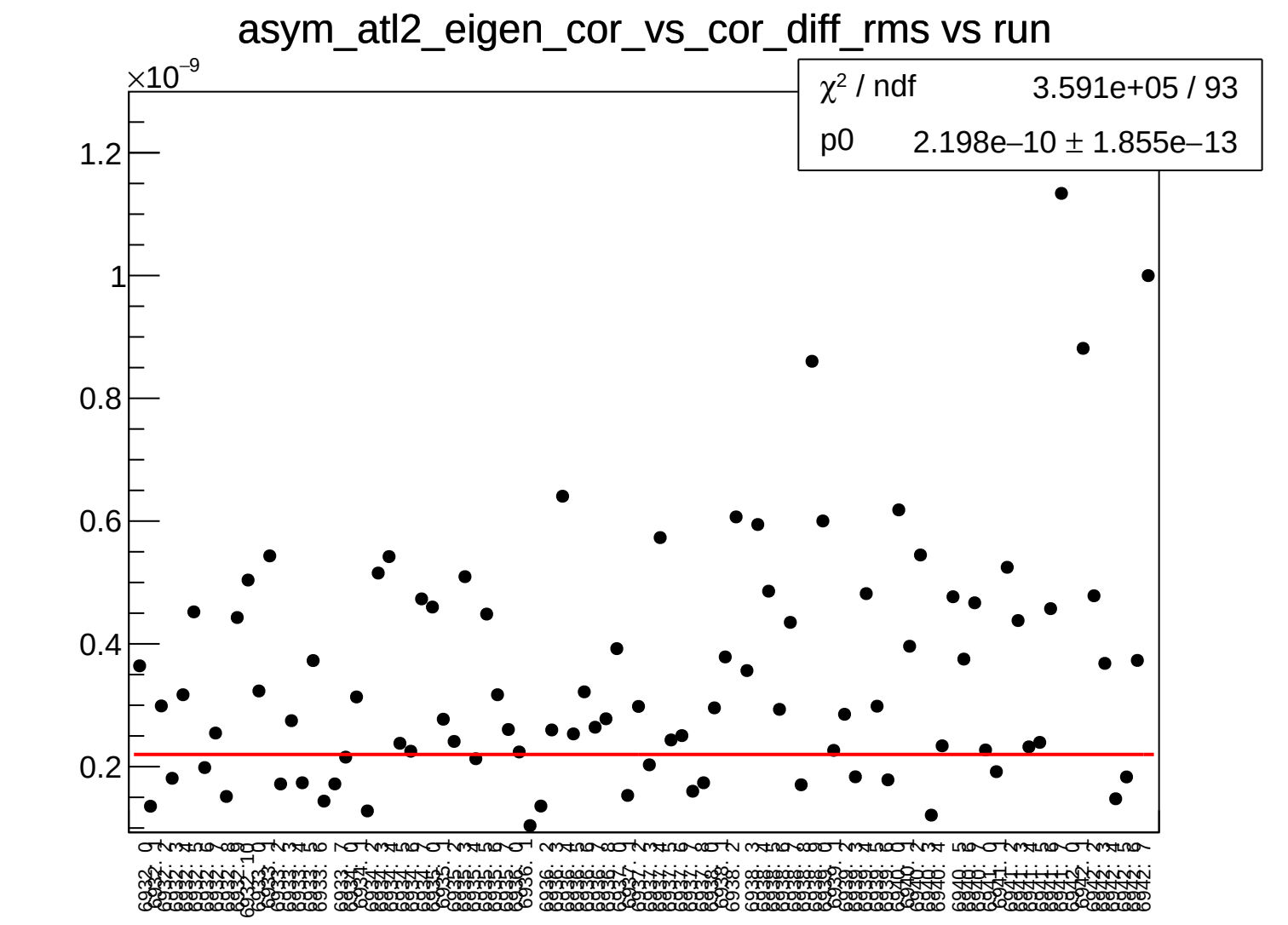

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.5 / 93
p0 0.5203 ± 0.8109
pull
Entries 94
Mean 707.2
Std Dev 0

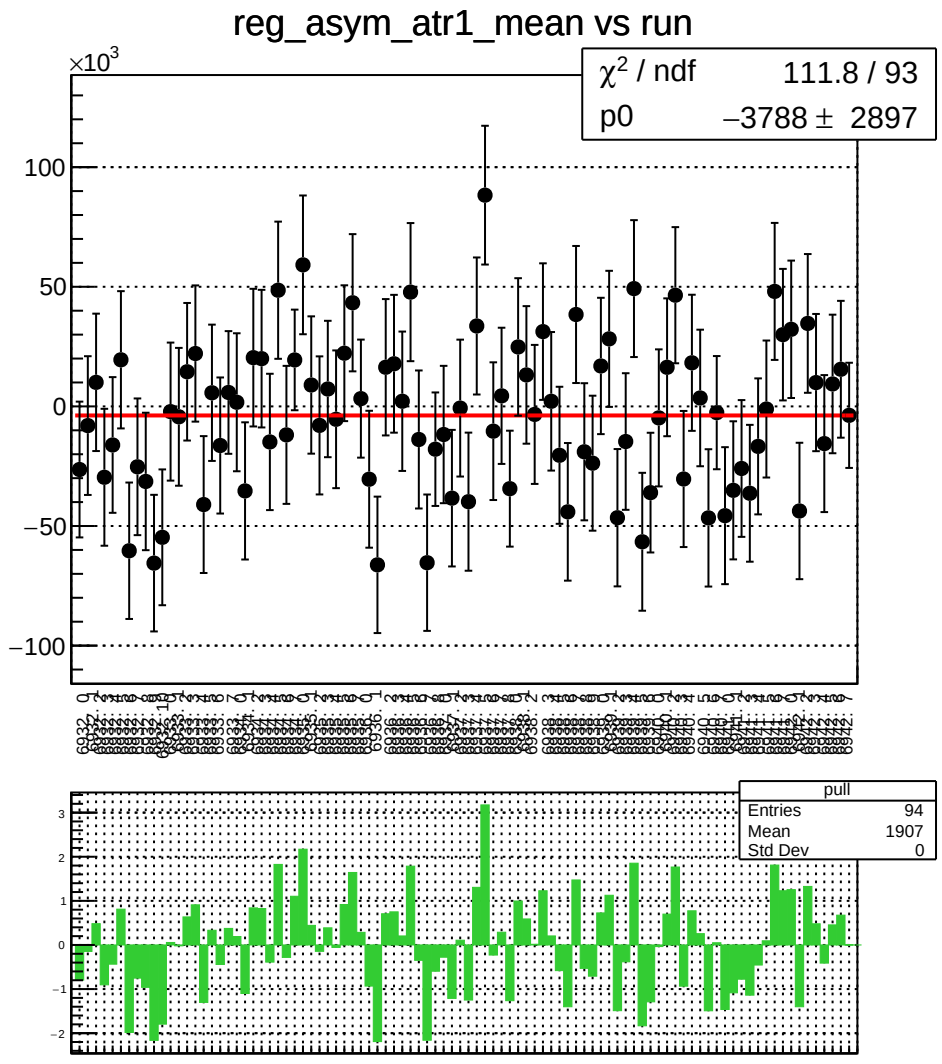

pull1D
Entries 94
Mean −0.006106
Std Dev 0.9021

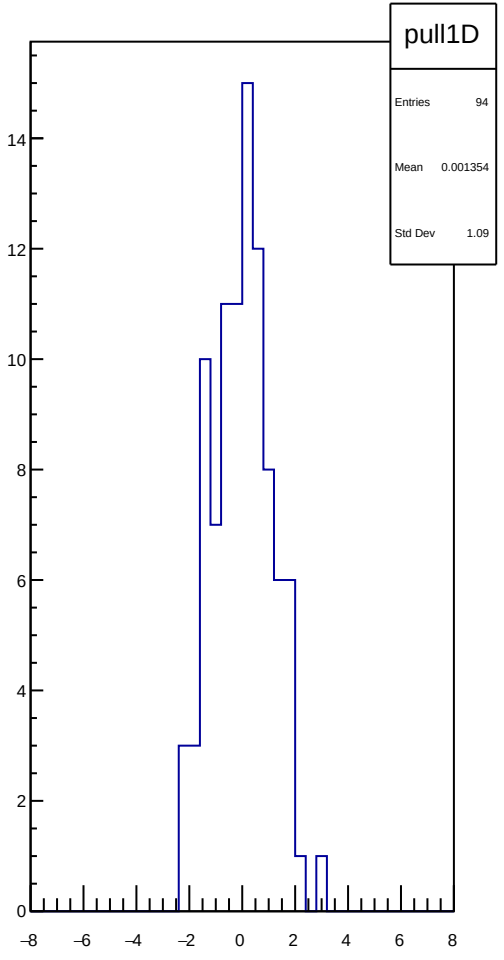

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.312e+04 / 93
p0 758.7 ± 0.5734
1000
950
900
850
800
750
700
650
600

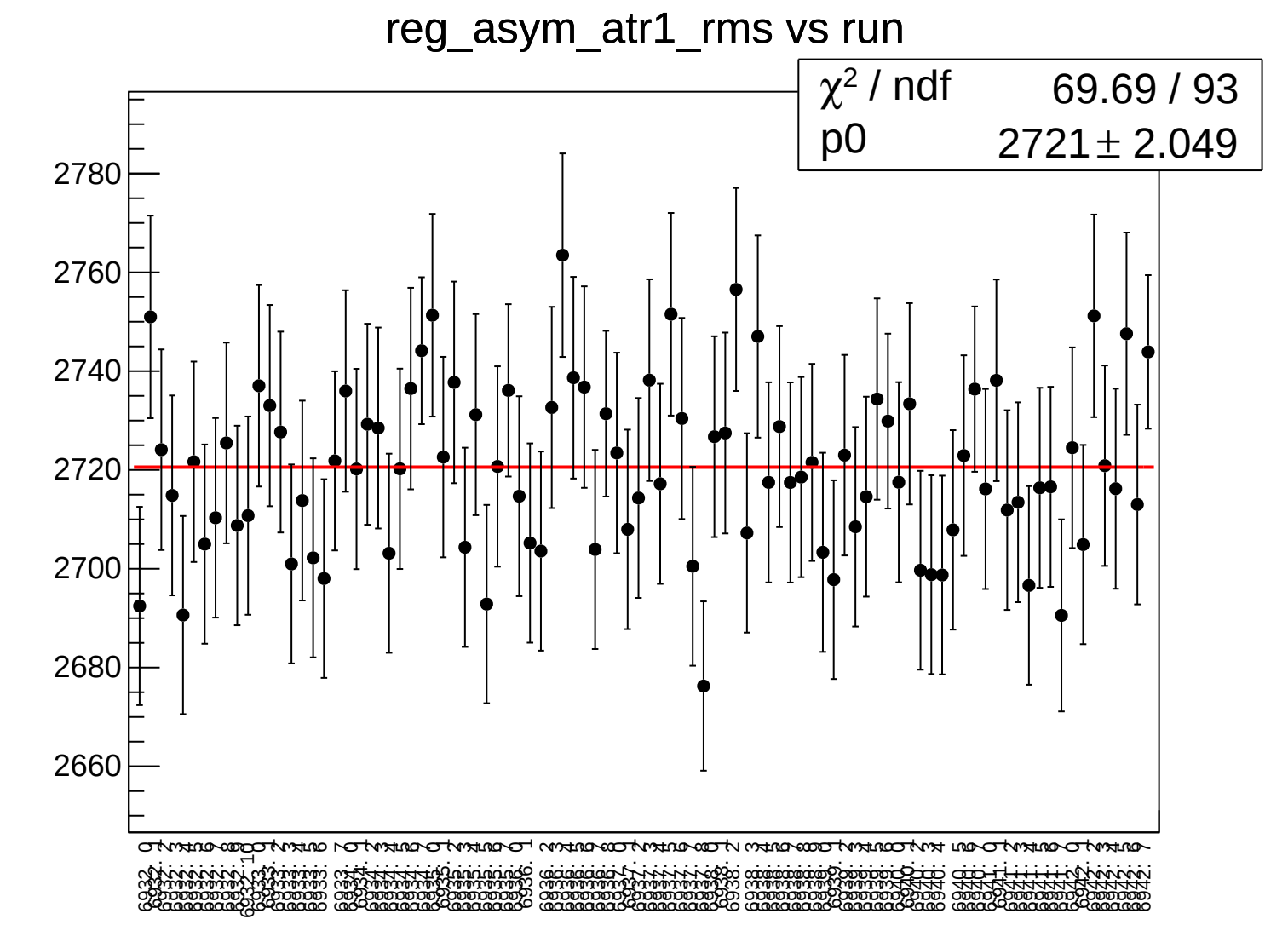

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.48 / 93
p0 2.891e−13 ± 2.623e−13
30
20
10
0
−10
−20
pull
Entries 94
Mean 58.37
Std Dev 38.96
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

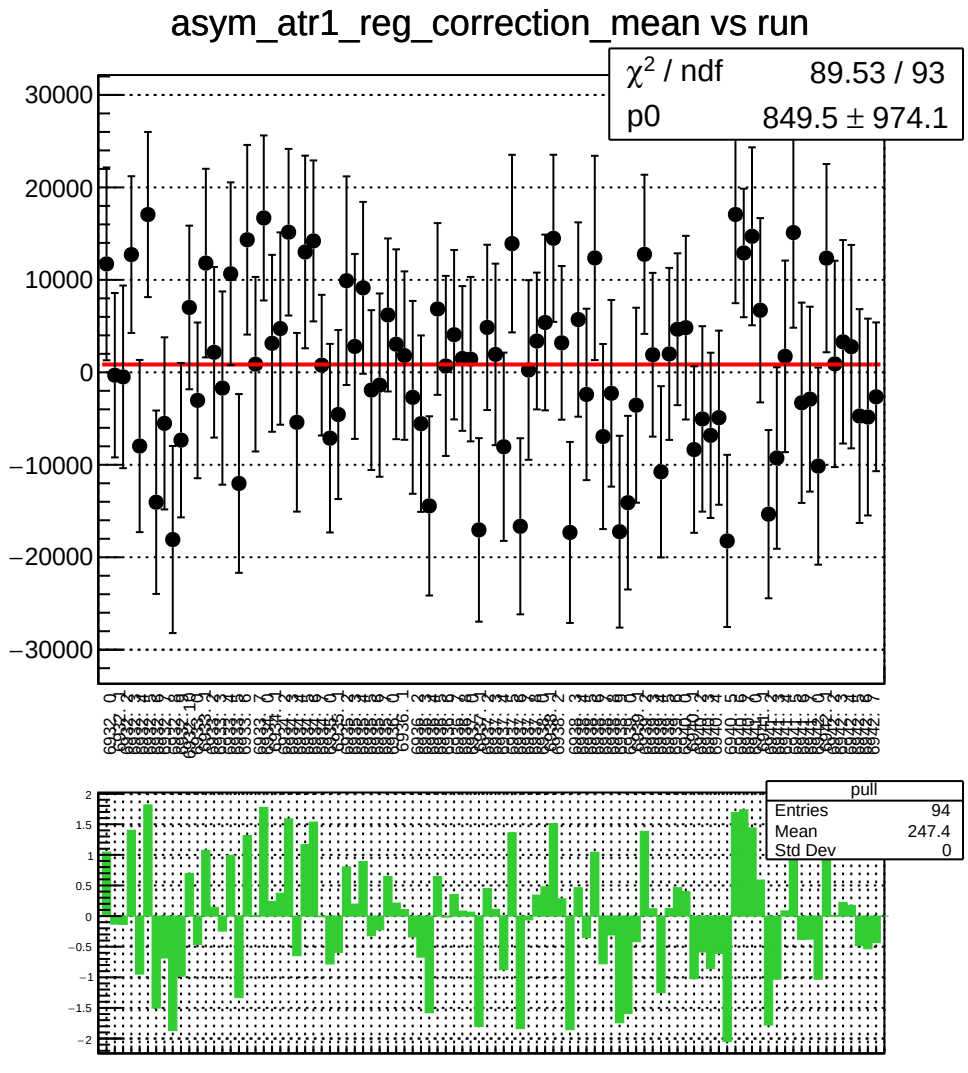

pull1D
Entries 94
Mean 0.08164
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

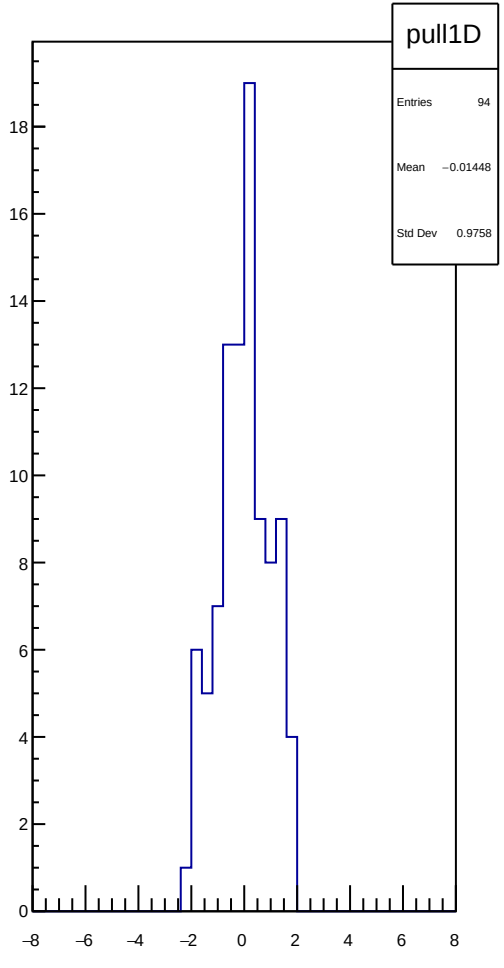

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.591e+05 / 93
p0 2.198e−10 ± 1.855e−13
1.2
1
0.8
0.6
0.4
0.2

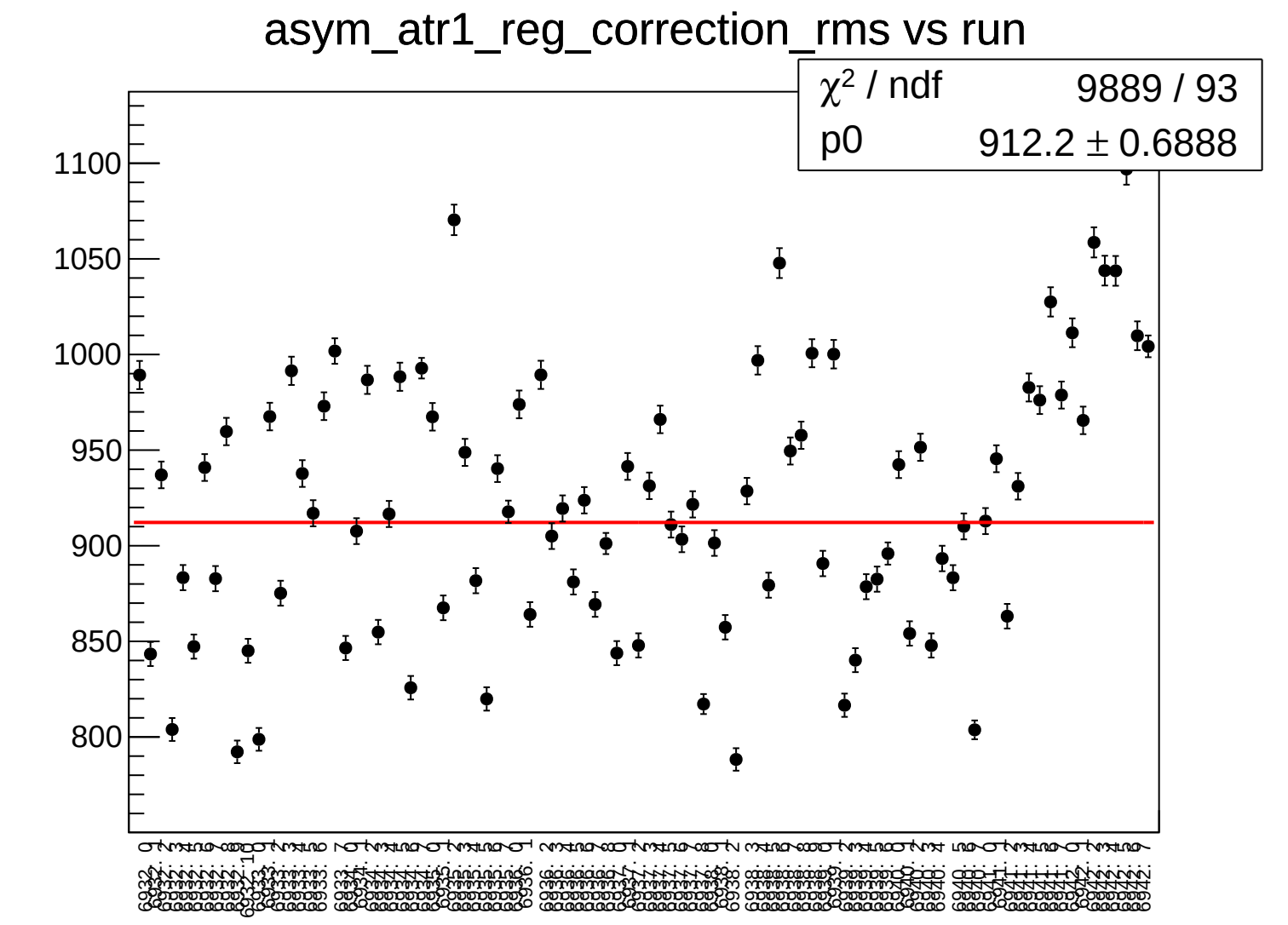

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 111.8 / 93
p0 −3788 ± 2897
100
50
0
−50
−100
pull
Entries 94
Mean 1907
Std Dev 0
3
2
1
0
−1
−2

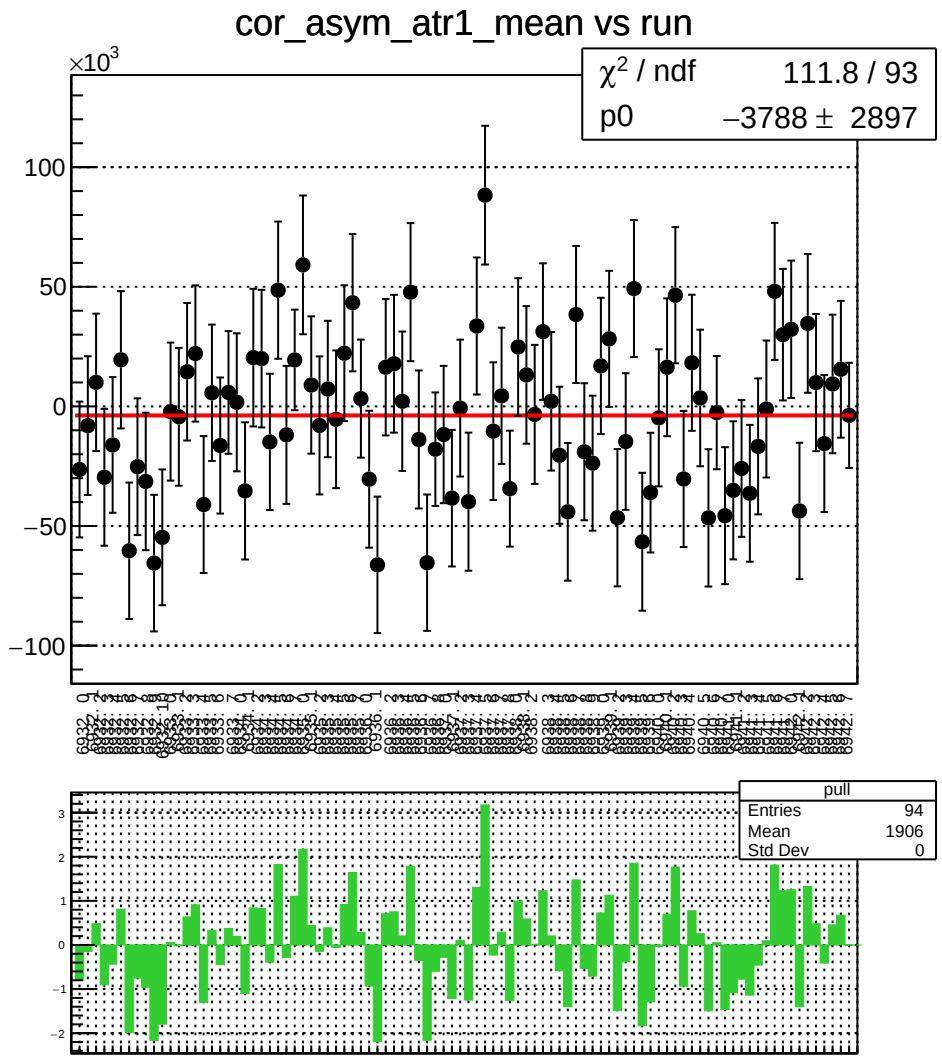

pull1D
Entries 94
Mean 0.001354
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

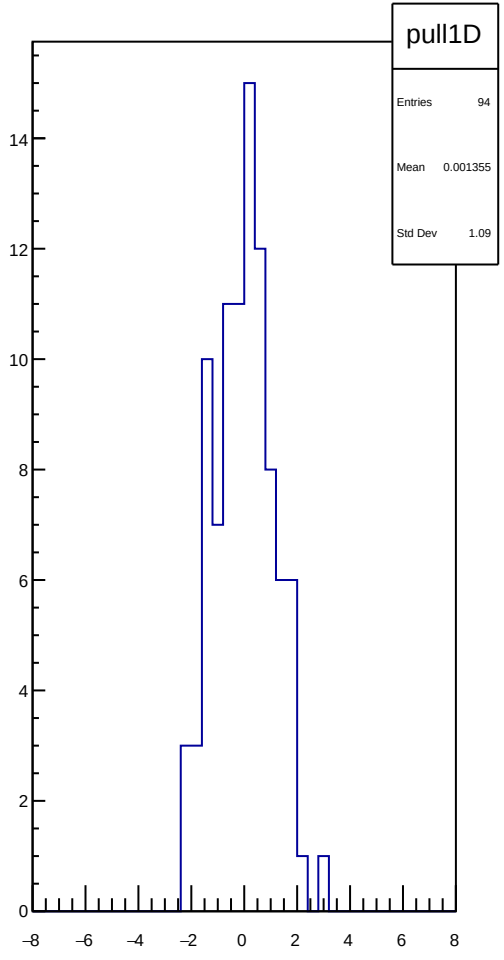

reg_asym_atr1_rms vs run
χ^2 / ndf 69.69 / 93
p0 2721 ± 2.049
2780
2760
2740
2720
2700
2680
2660

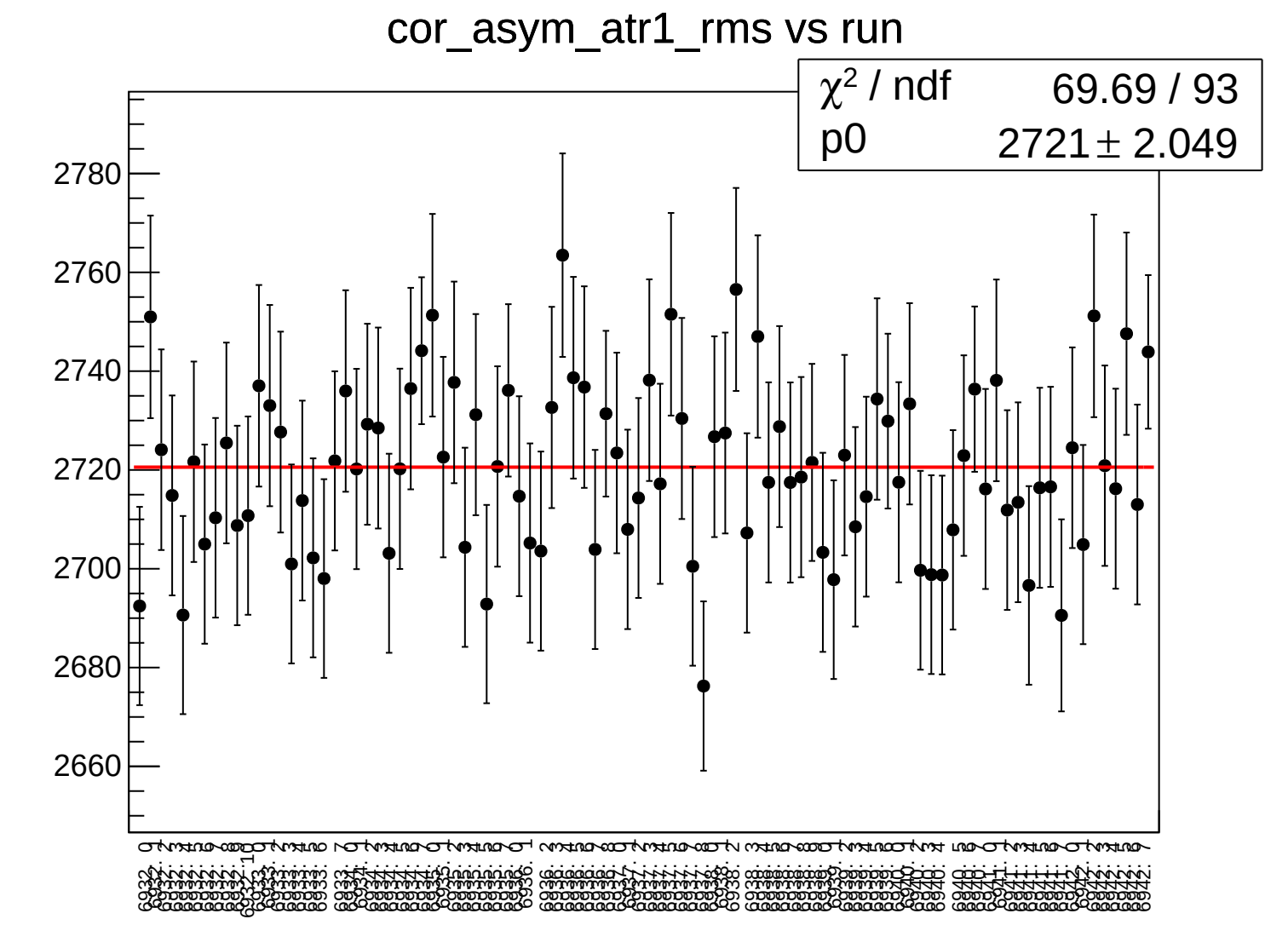

asym_atr1_reg_correction_mean vs run
χ² / ndf 89.53 / 93
p0 849.5 ± 974.1
pull
Entries 94
Mean 247.4
Std Dev 0

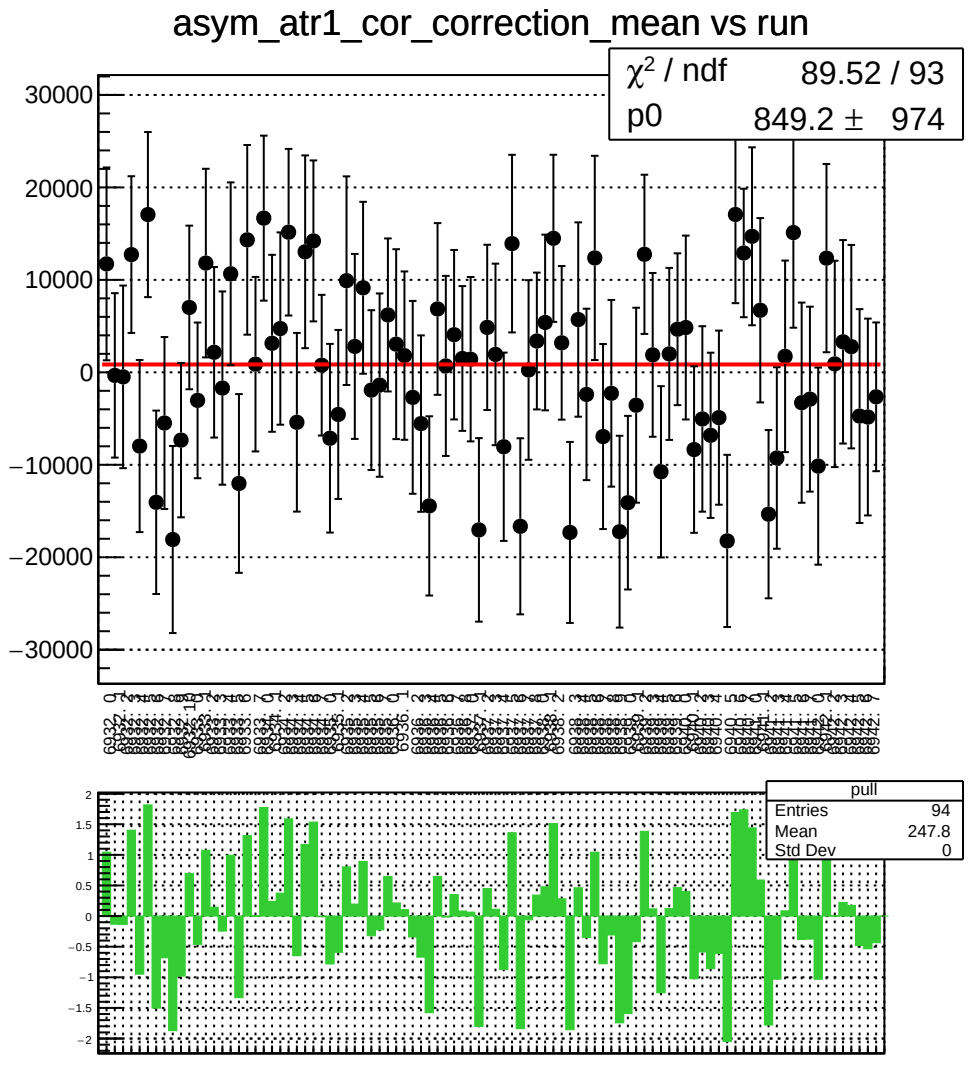

pull1D
Entries 94
Mean −0.01448
Std Dev 0.9758

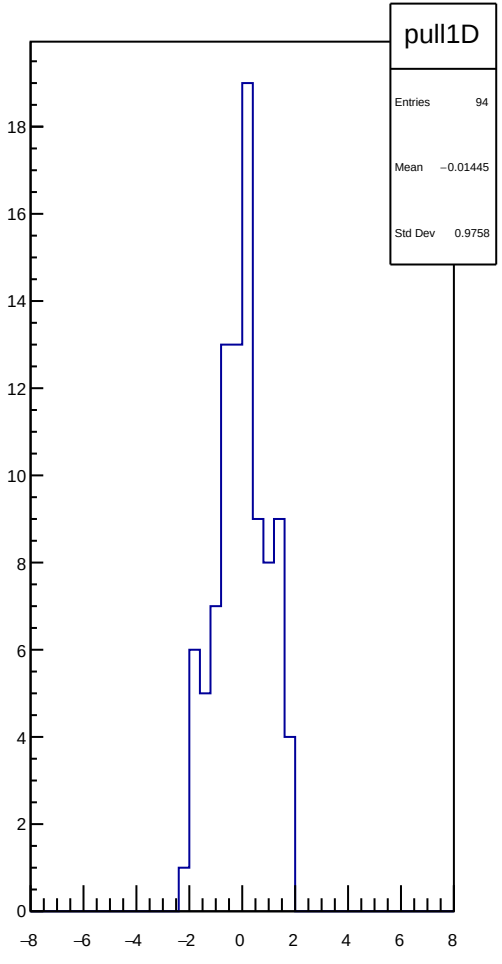

asym_atr1_reg_correction_rms vs run
χ² / ndf 9889 / 93
p0 912.2 ± 0.6888
1100
1050
1000
950
900
850
800

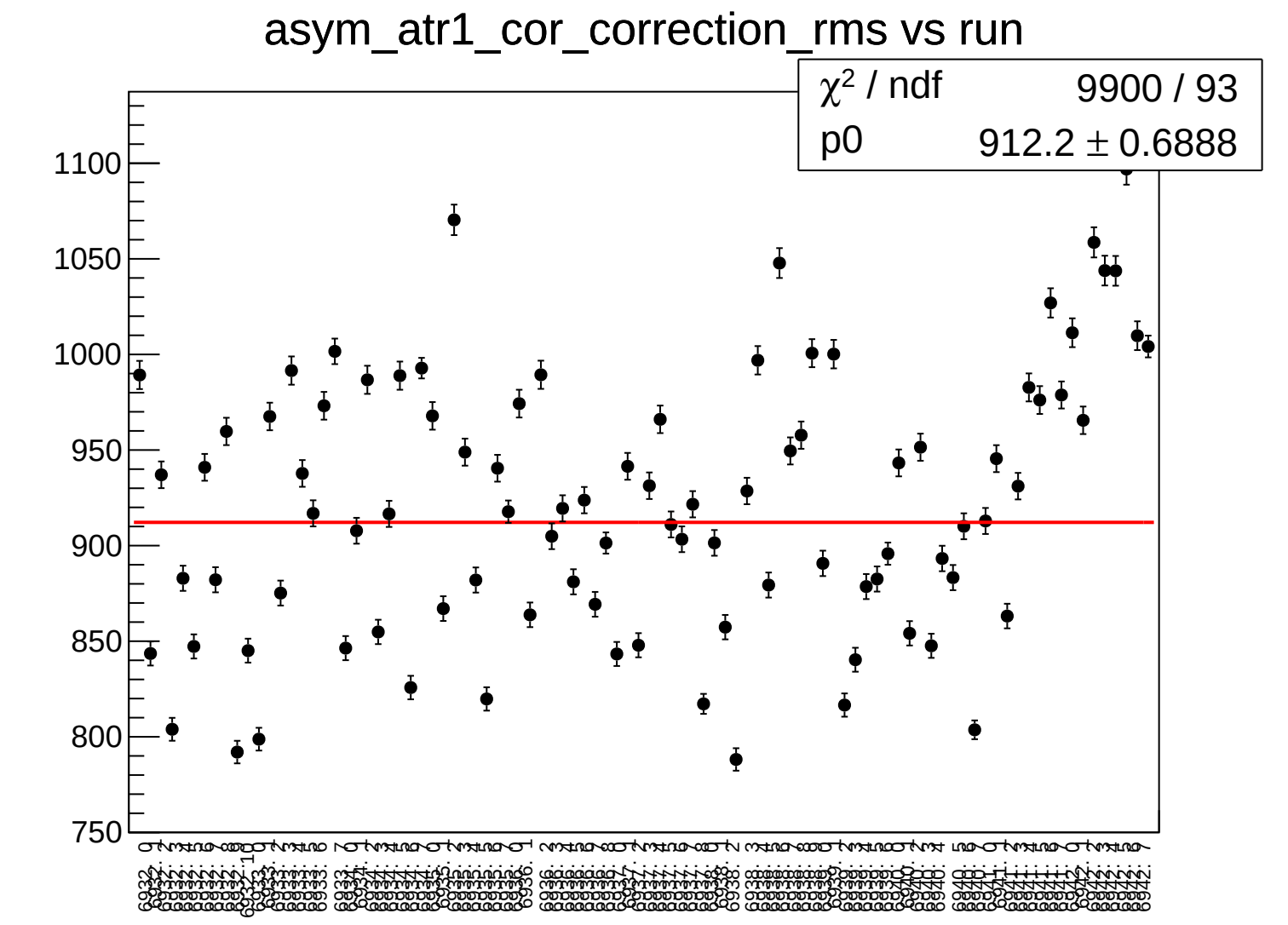

cor_asym_atr1_mean vs run
χ^2 / ndf 111.8 / 93
p0 −3788 ± 2897
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean 1906
Std Dev 0
3
2
1
0
−1
−2

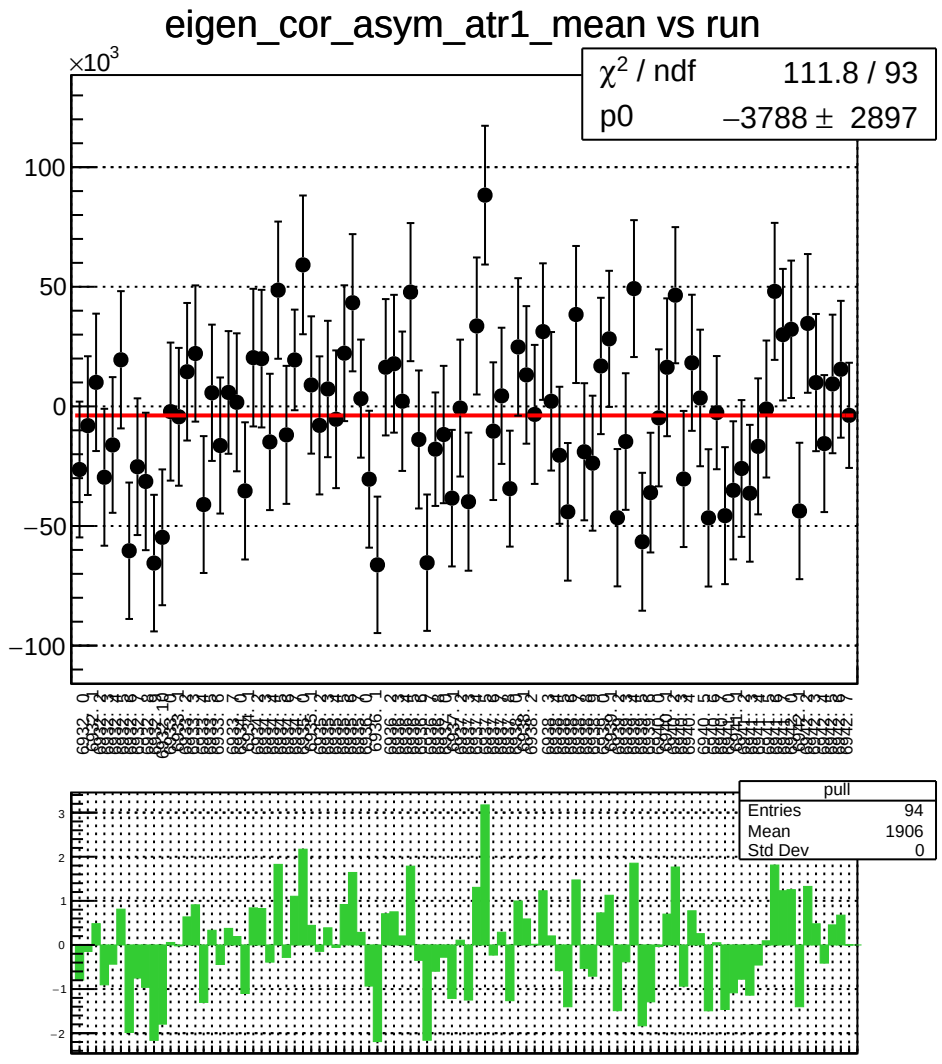

pull1D
Entries 94
Mean 0.001355
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

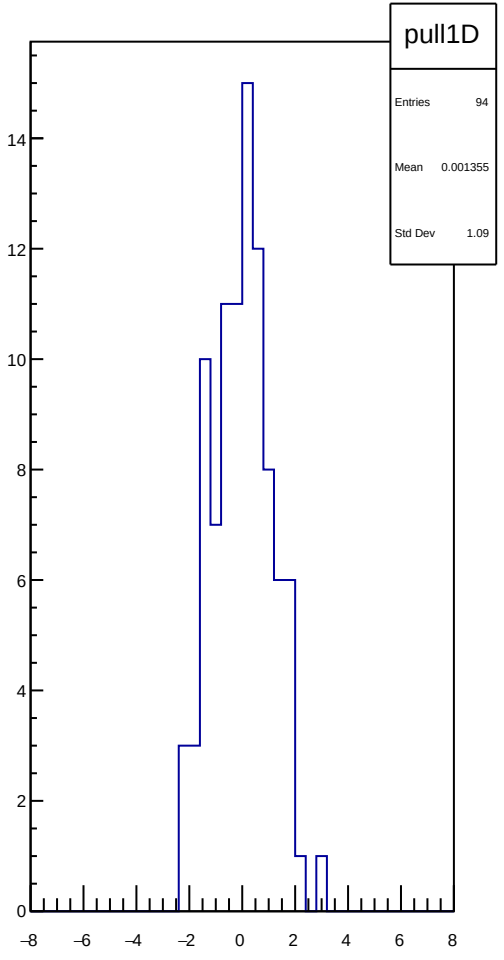

cor_asym_atr1_rms vs run
χ² / ndf 69.69 / 93
p0 2721 ± 2.049
2780
2760
2740
2720
2700
2680
2660

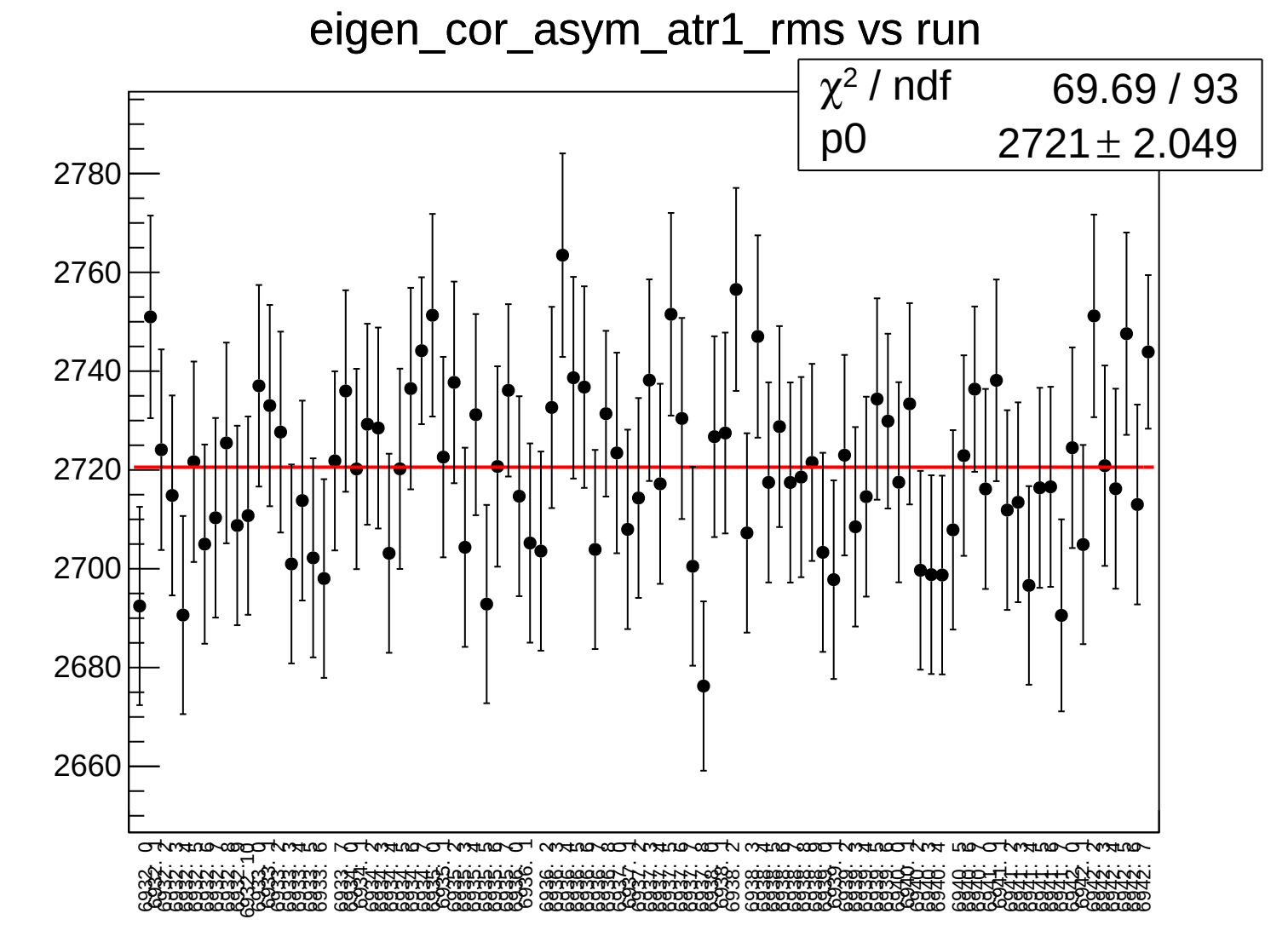

asym_atr1_cor_correction_mean vs run
χ² / ndf 89.52 / 93
p0 849.2 ± 974
pull
Entries 94
Mean 247.8
Std Dev 0

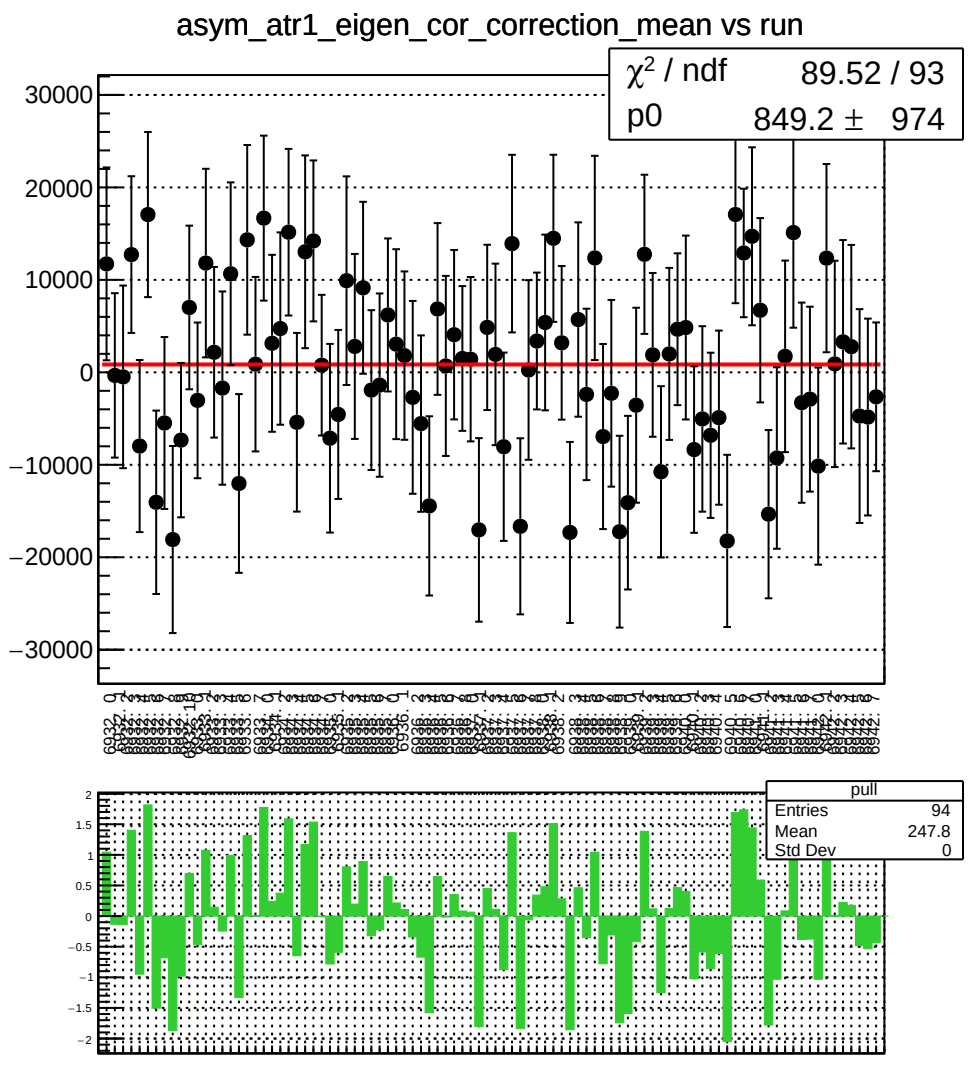

pull1D
Entries 94
Mean −0.01445
Std Dev 0.9758

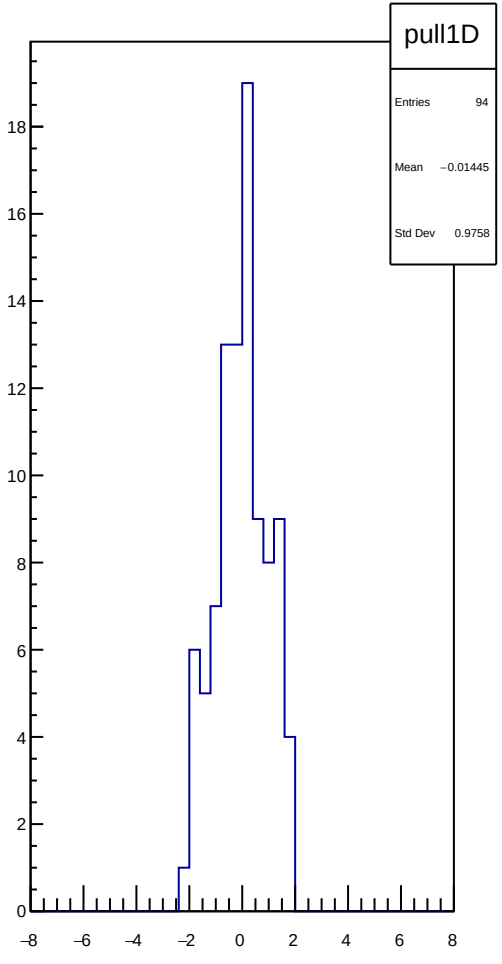

asym_atr1_cor_correction_rms vs run
χ² / ndf 9900 / 93
p0 912.2 ± 0.6888
1100
1050
1000
950
900
850
800
750

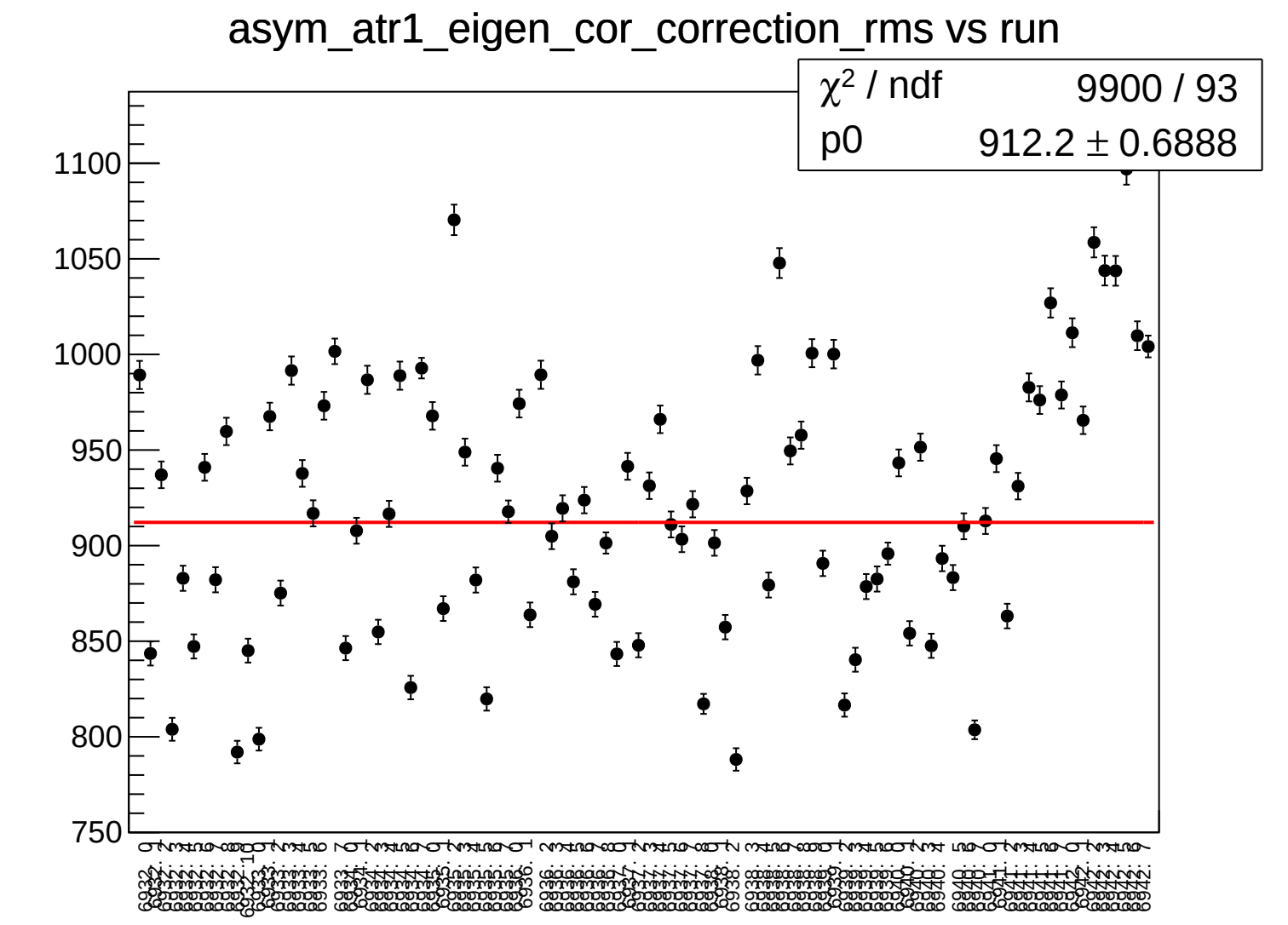

eigen_cor_asym_atr1_mean vs run
χ² / ndf 111.8 / 93
p0 −3788 ± 2897
×10³
100
50
0
−50
−100
pull
Entries 94
Mean 1906
Std Dev 0
3
2
1
0
−1
−2

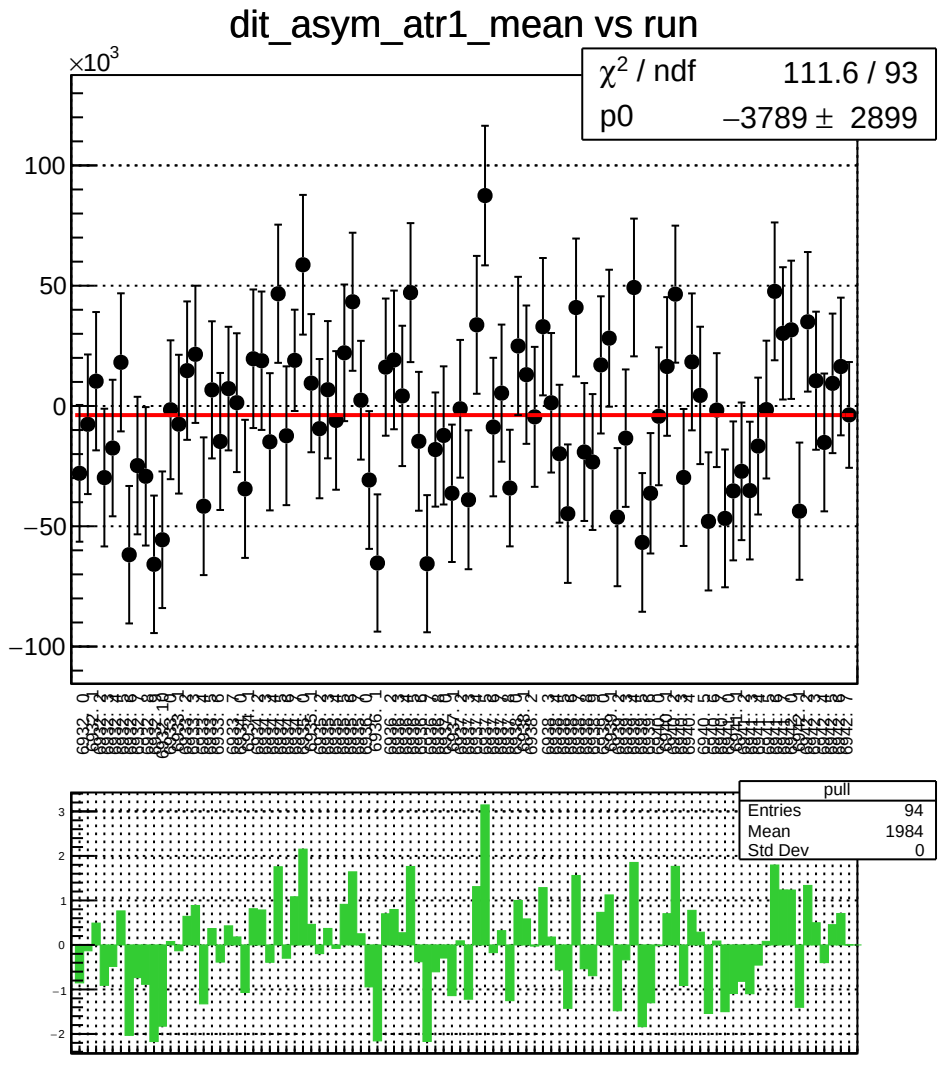

pull1D
Entries 94
Mean 0.001355
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

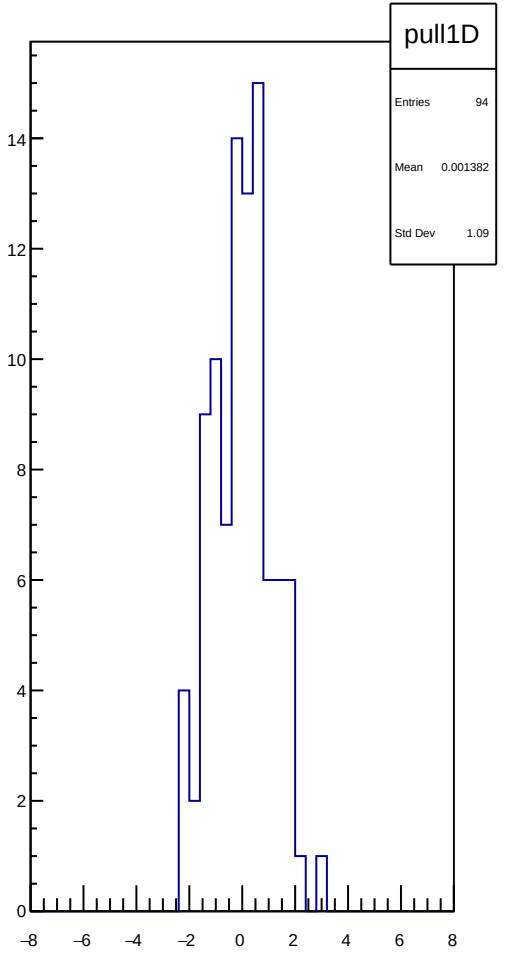

eigen_cor_asym_atr1_rms vs run
χ² / ndf 69.69 / 93
p0 2721 ± 2.049
2780
2760
2740
2720
2700
2680
2660

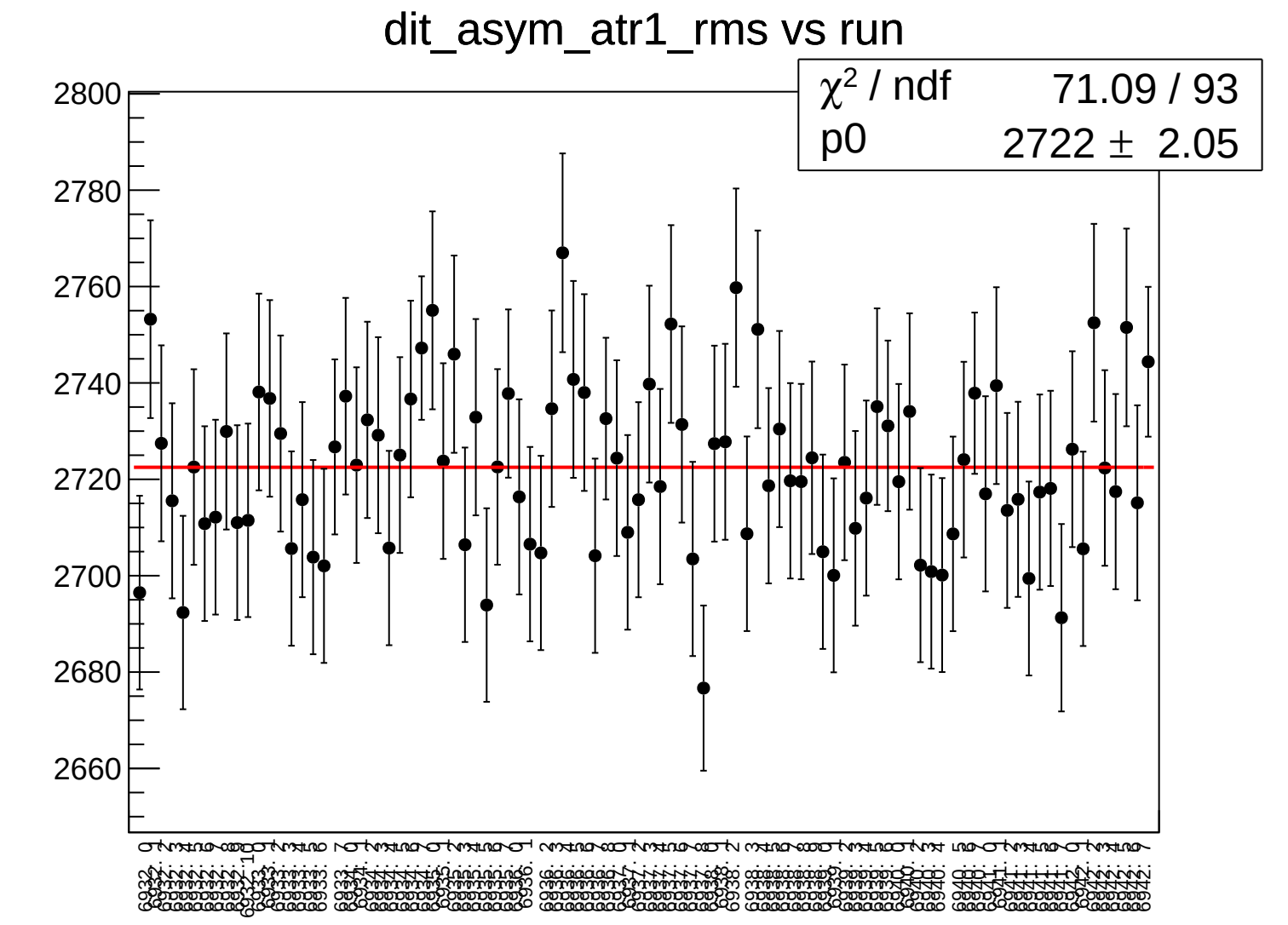

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 89.52 / 93
p0 849.2 ± 974
pull
Entries 94
Mean 247.8
Std Dev 0

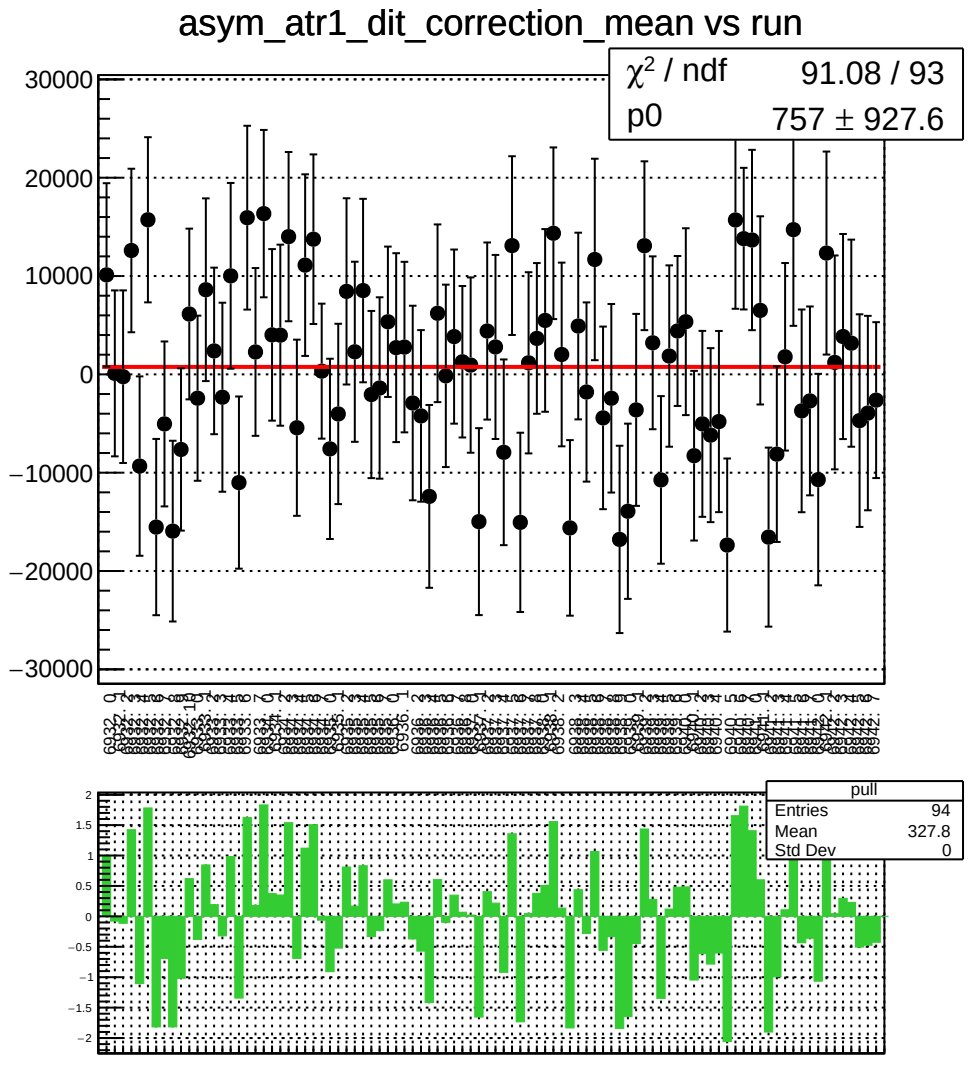

pull1D
Entries 94
Mean −0.01445
Std Dev 0.9758

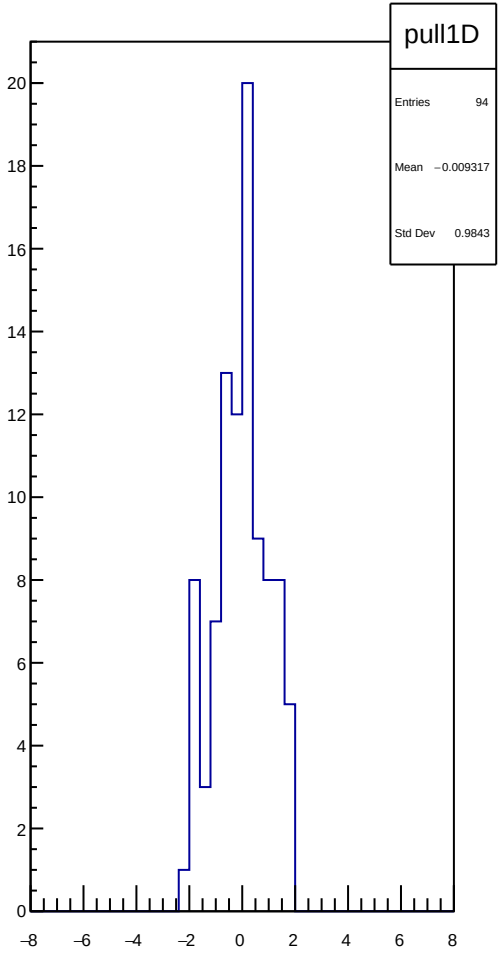

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 9900 / 93
p0 912.2 ± 0.6888
1100
1050
1000
950
900
850
800
750

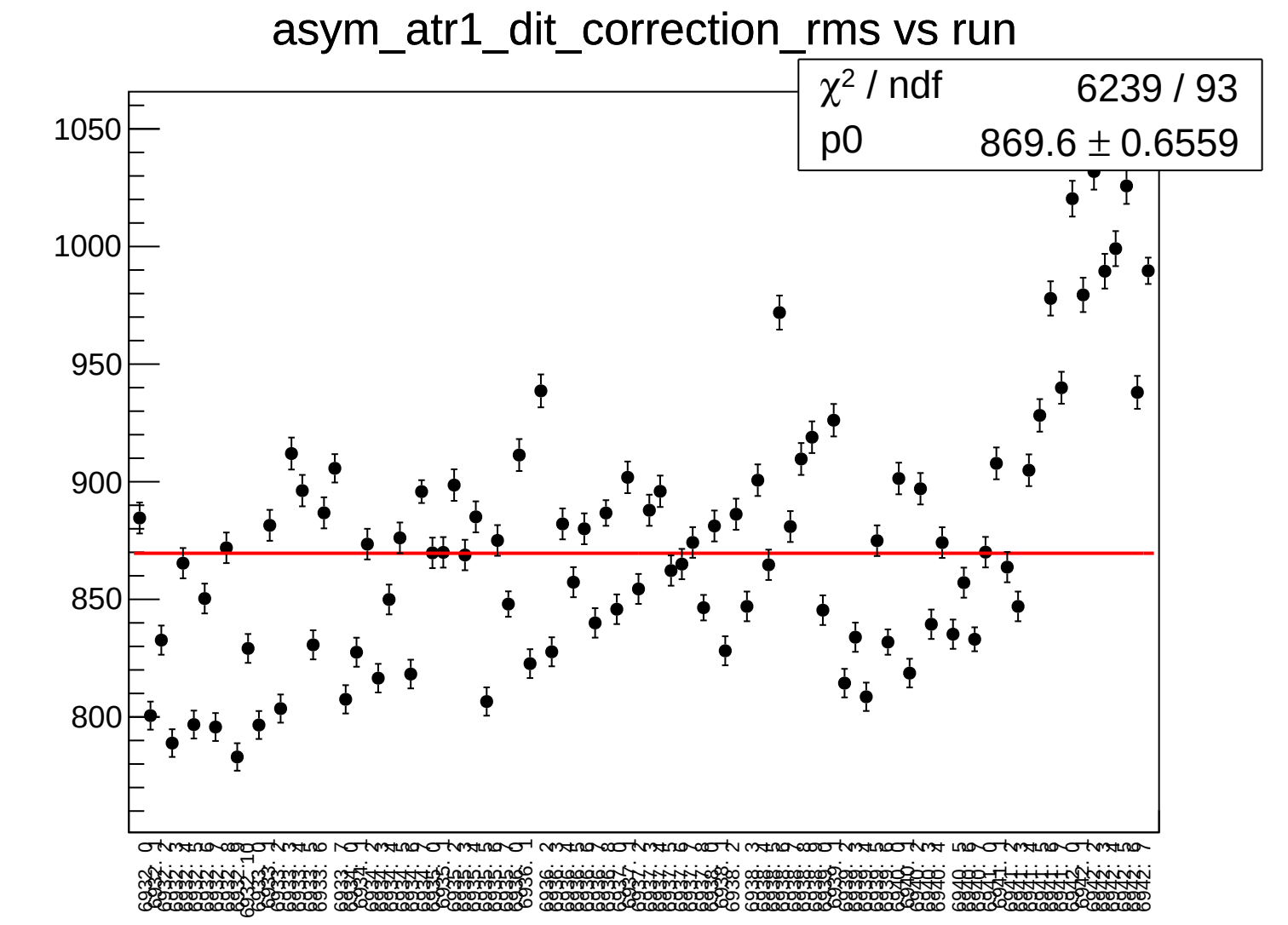

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 111.6 / 93
p0 −3789 ± 2899
100
50
0
−50
−100
pull
Entries 94
Mean 1984
Std Dev 0
3
2
1
0
−1
−2

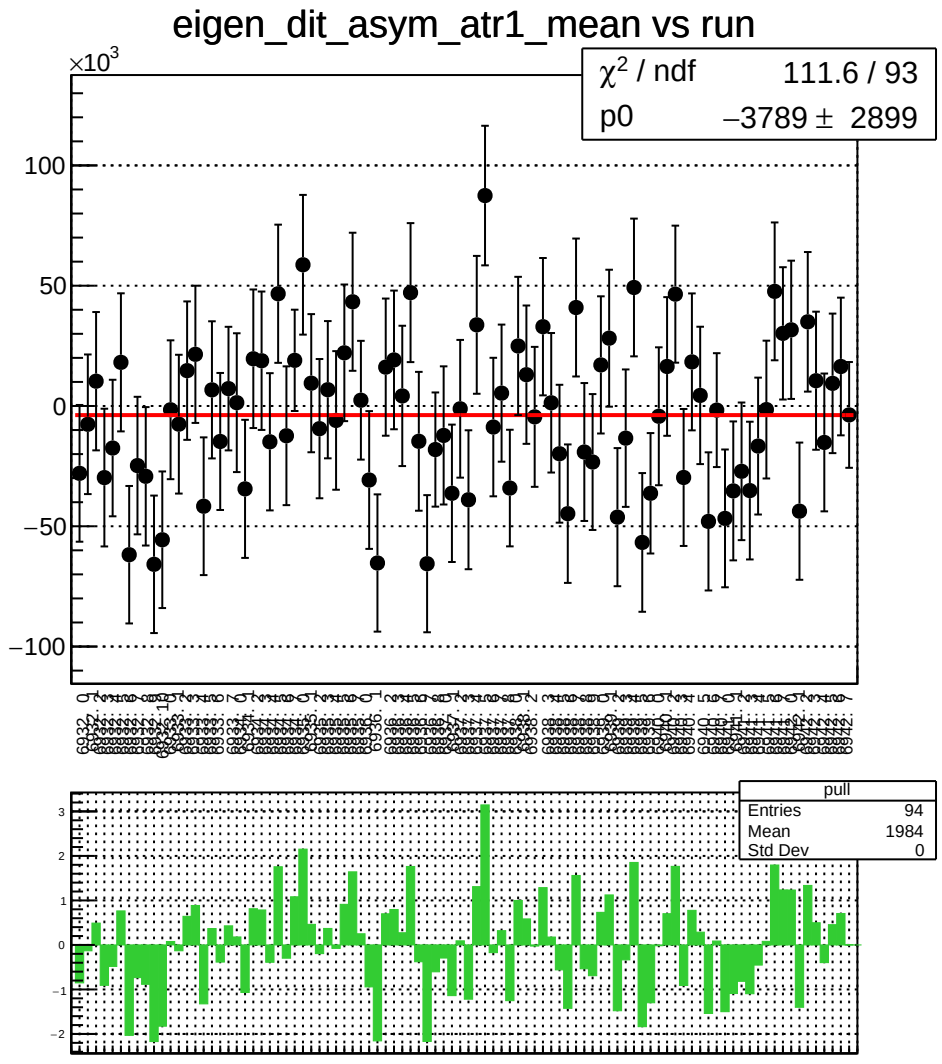

pull1D
Entries 94
Mean 0.001382
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

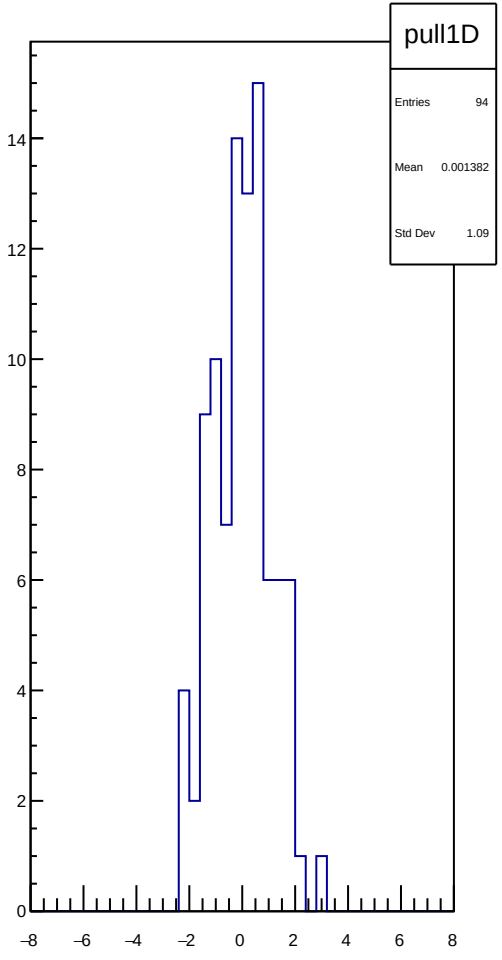

dit_asym_atr1_rms vs run
χ² / ndf 71.09 / 93
p0 2722 ± 2.05
2800
2780
2760
2740
2720
2700
2680
2660

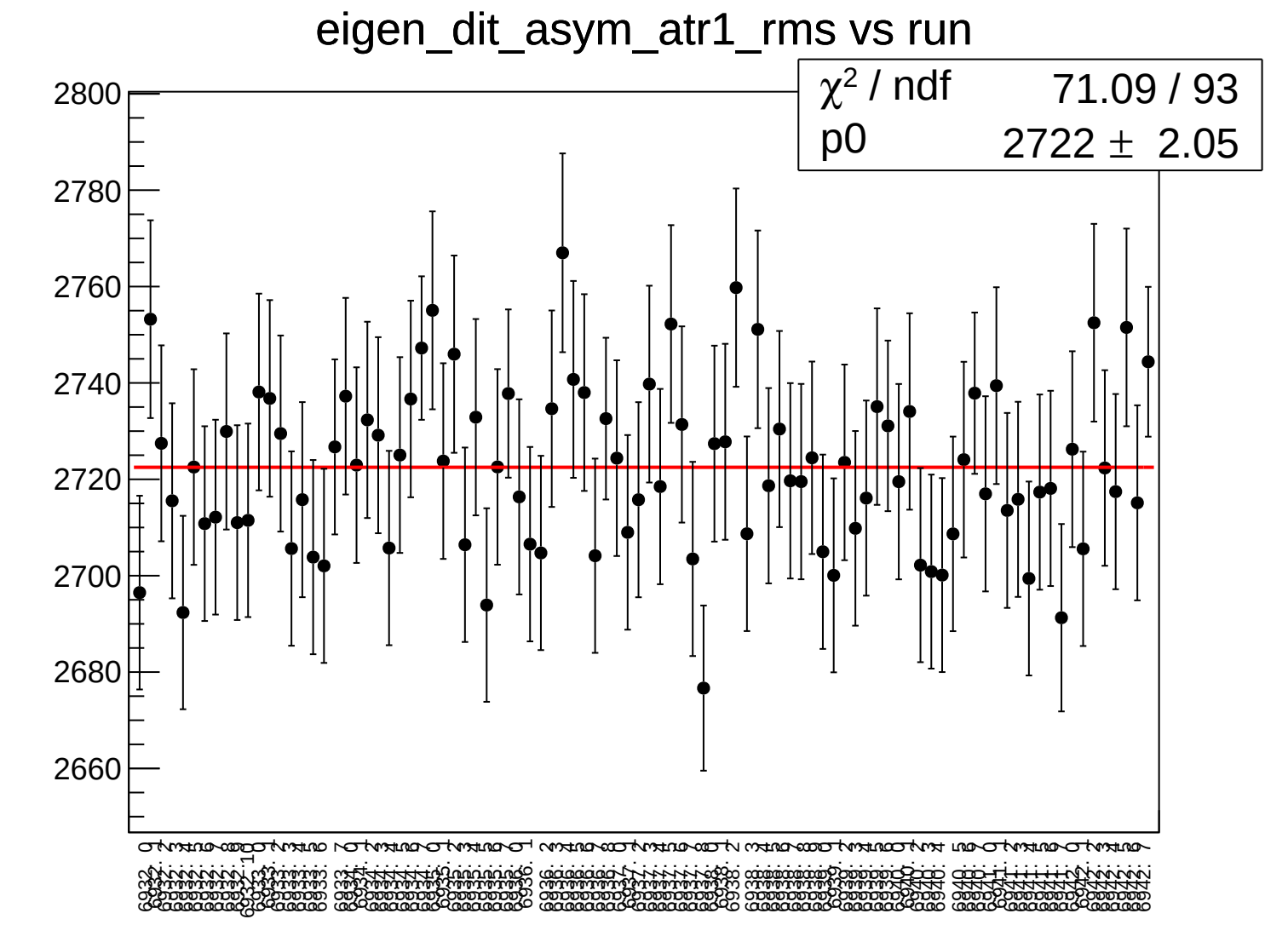

asym_atr1_dit_correction_mean vs run
χ² / ndf 91.08 / 93
p0 757 ± 927.6
pull
Entries 94
Mean 327.8
Std Dev 0

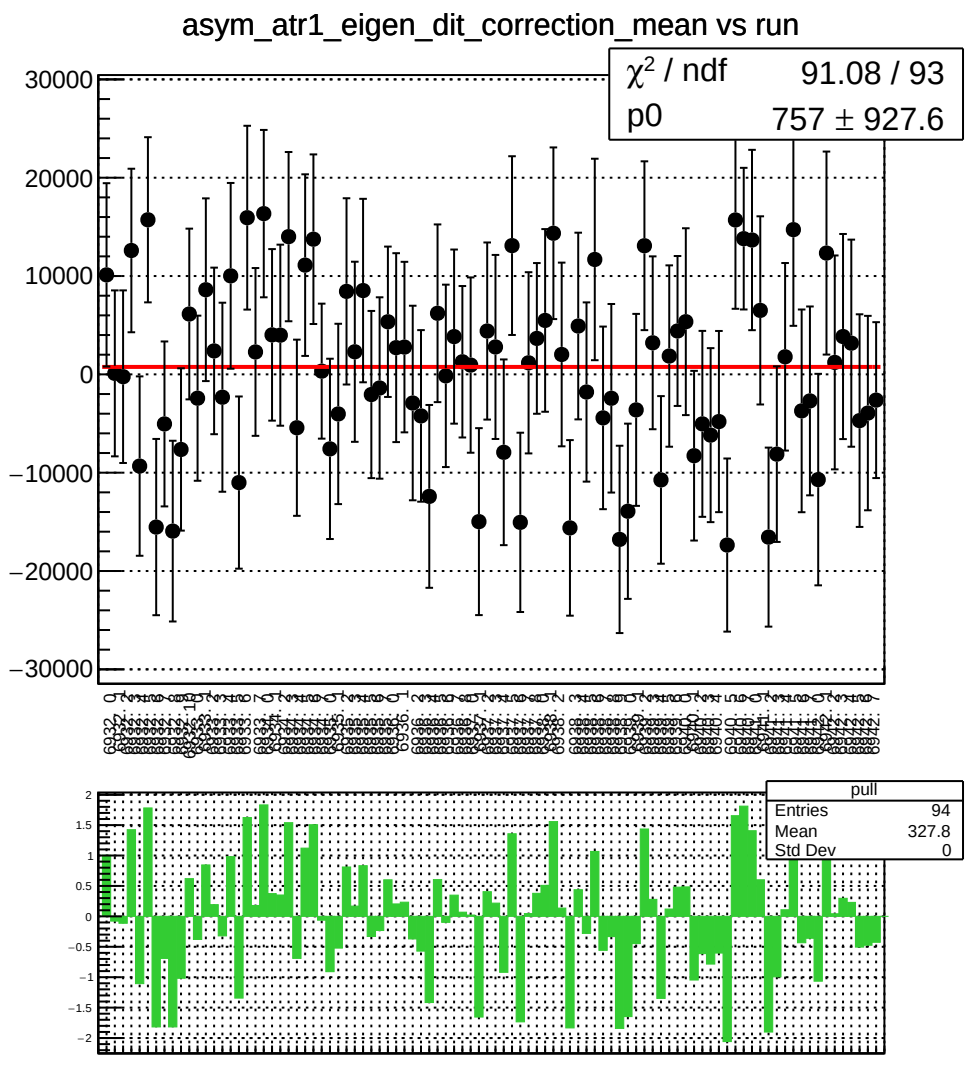

pull1D
Entries 94
Mean −0.009317
Std Dev 0.9843

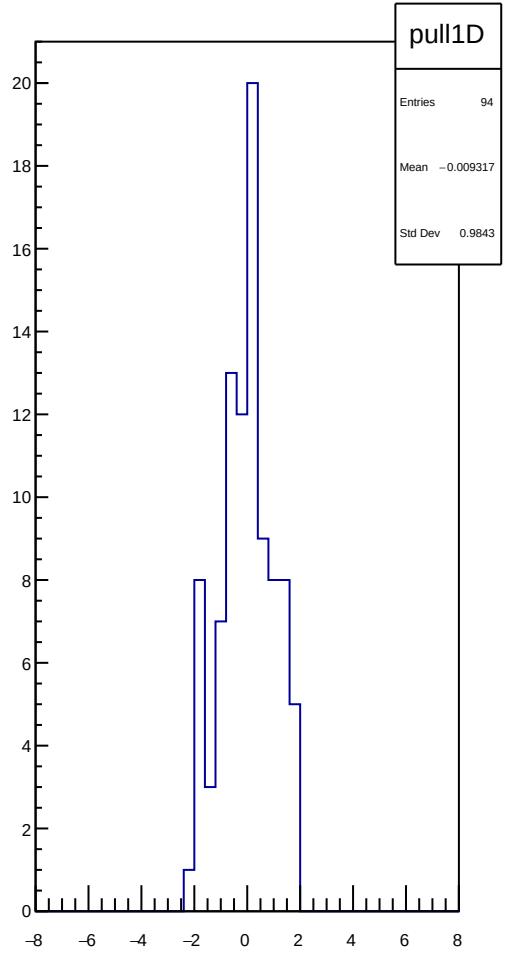

asym_atr1_dit_correction_rms vs run
χ² / ndf 6239 / 93
p0 869.6 ± 0.6559
1050
1000
950
900
850
800

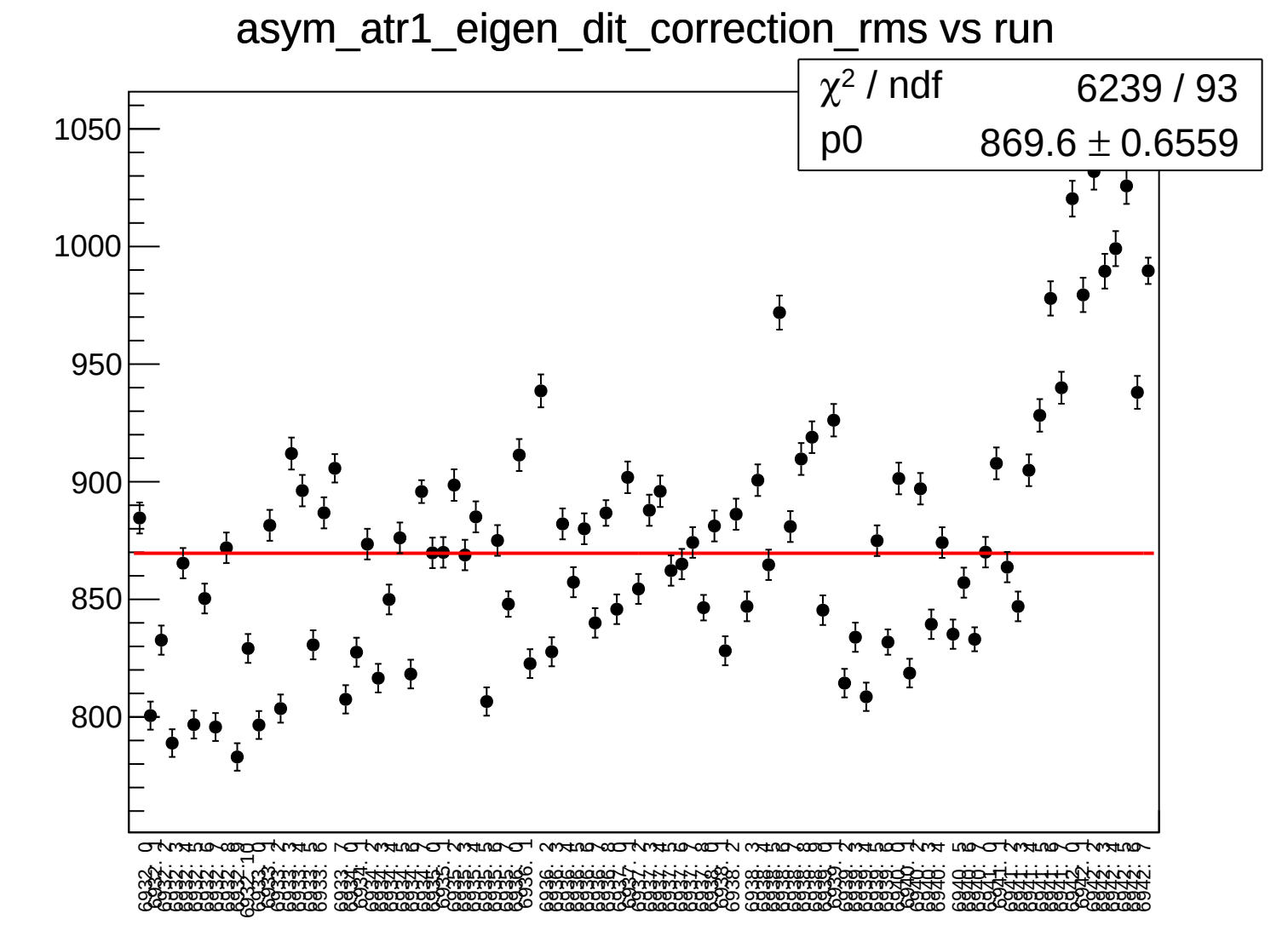

eigen_dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 111.6 / 93
p0 −3789 ± 2899
100
50
0
−50
−100
pull
Entries 94
Mean 1984
Std Dev 0
3
2
1
0
−1
−2

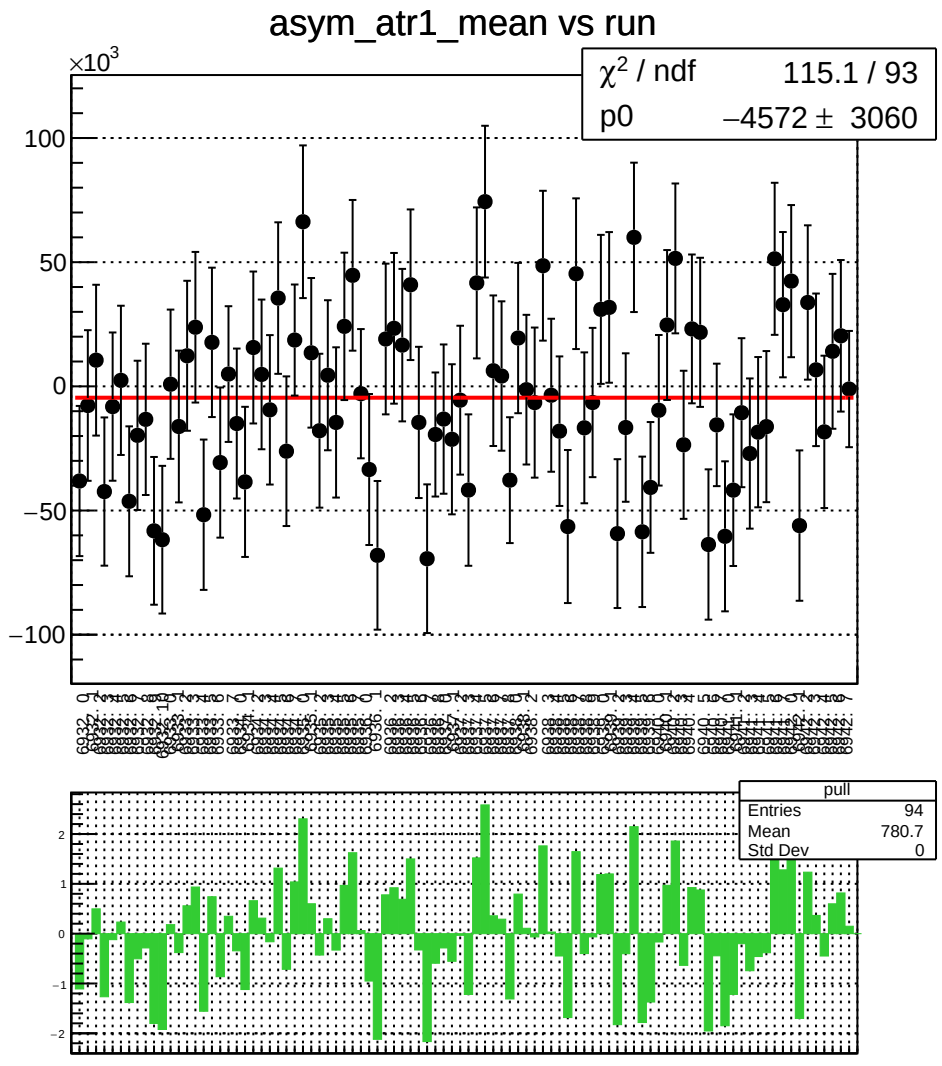

pull1D
Entries 94
Mean 0.001382
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

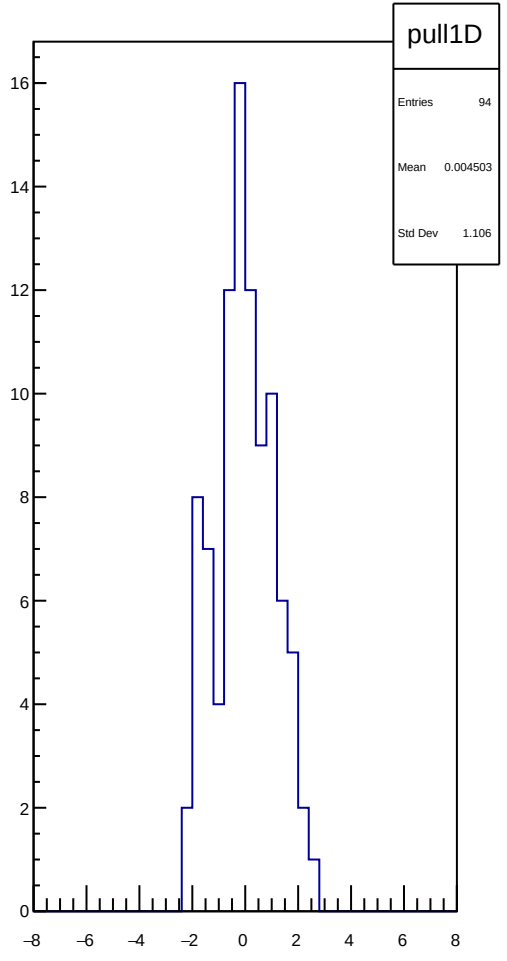

eigen_dit_asym_atr1_rms vs run
χ² / ndf 71.09 / 93
p0 2722 ± 2.05
2800
2780
2760
2740
2720
2700
2680
2660

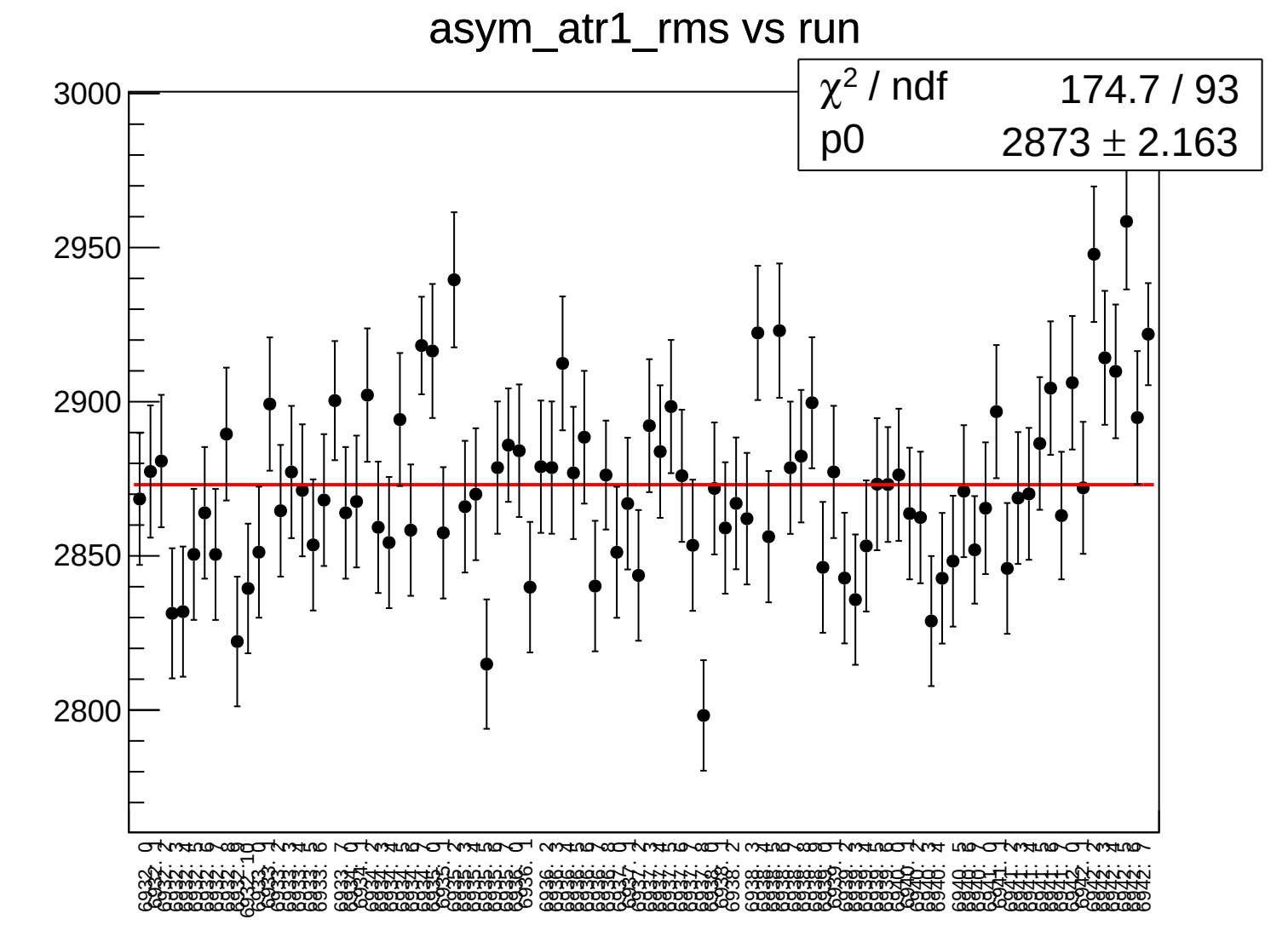

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 91.08 / 93
p0 757 ± 927.6
pull
Entries 94
Mean 327.8
Std Dev 0

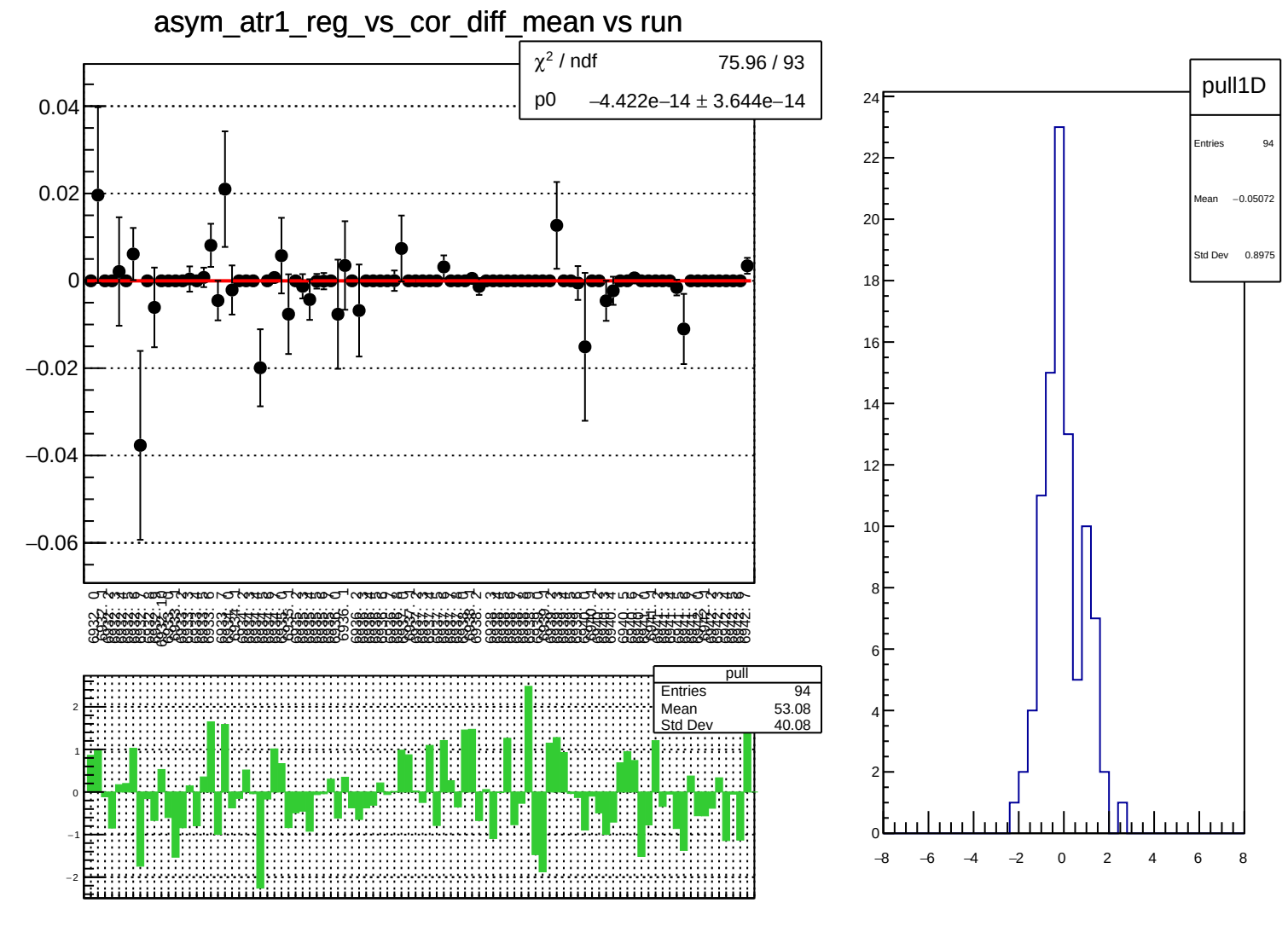

pull1D
Entries 94
Mean −0.009317
Std Dev 0.9843

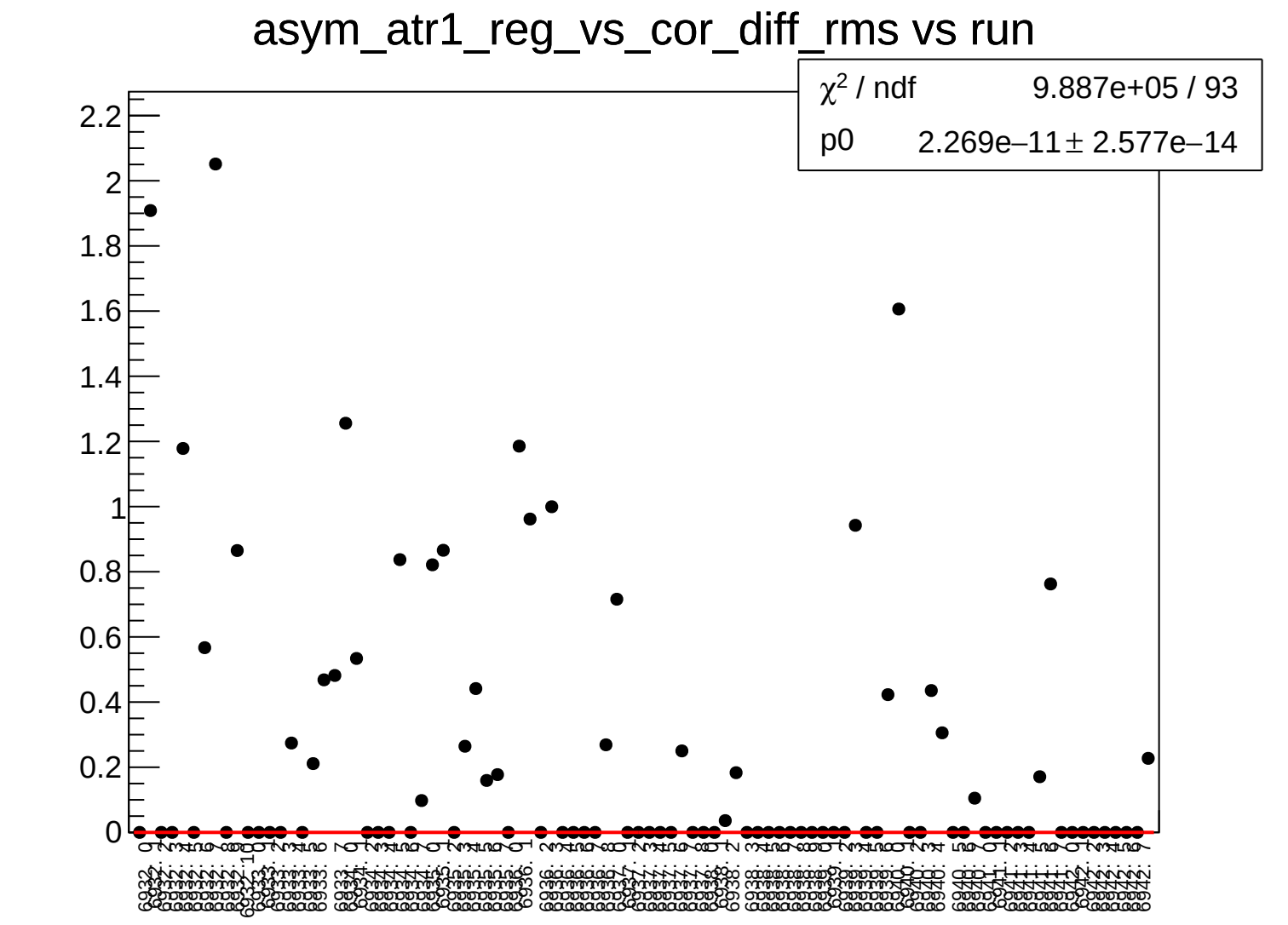

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 6239 / 93
p0 869.6 ± 0.6559
1050
1000
950
900
850
800

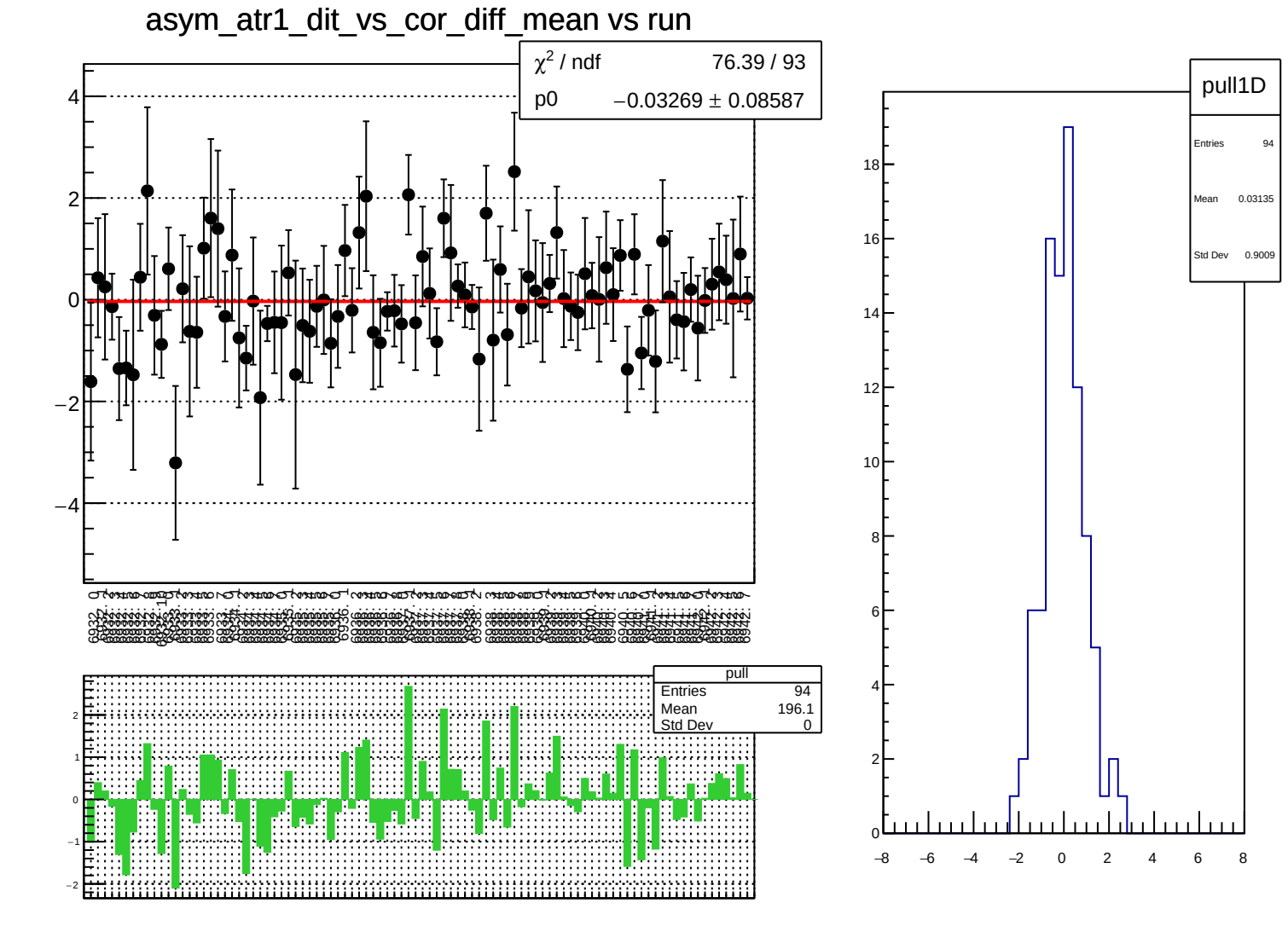

asym_atr1_mean vs run
×10^3
χ² / ndf 115.1 / 93
p0 −4572 ± 3060
100
50
0
−50
−100
pull
Entries 94
Mean 780.7
Std Dev 0
2
1
0
−1
−2

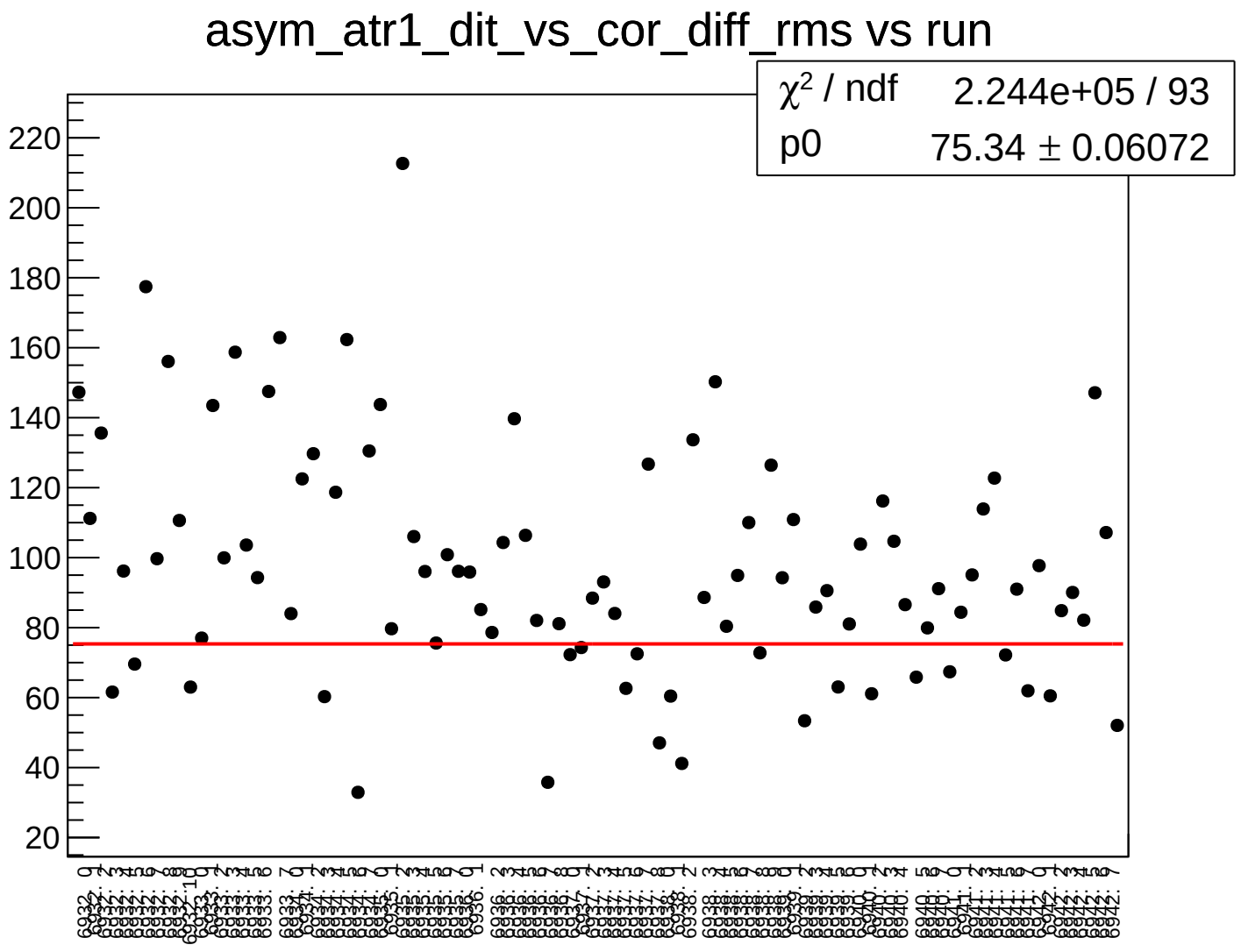

pull1D
Entries 94
Mean 0.004503
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

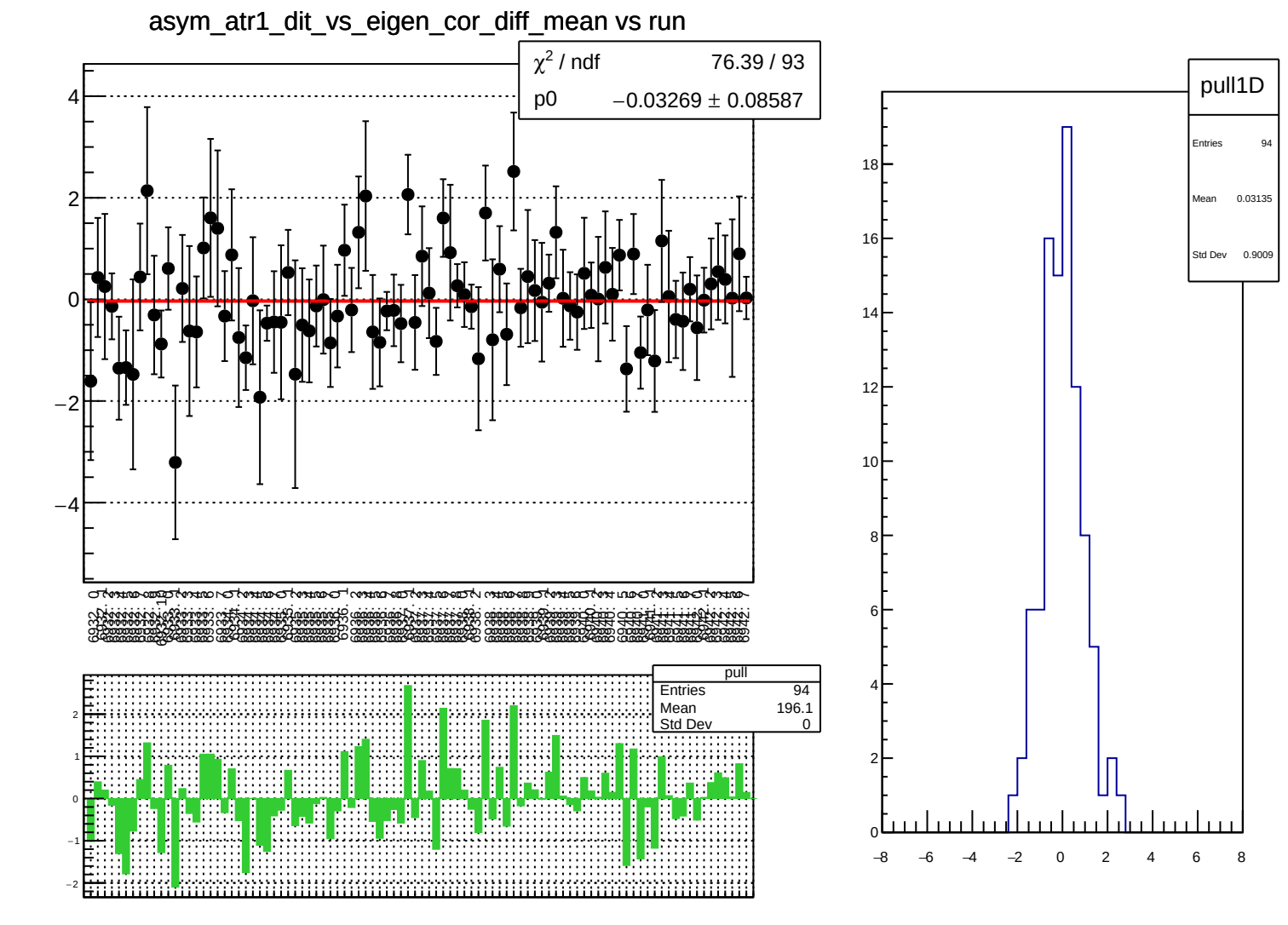

asym_atr1_rms vs run
χ² / ndf 174.7 / 93
p0 2873 ± 2.163
3000
2950
2900
2850
2800

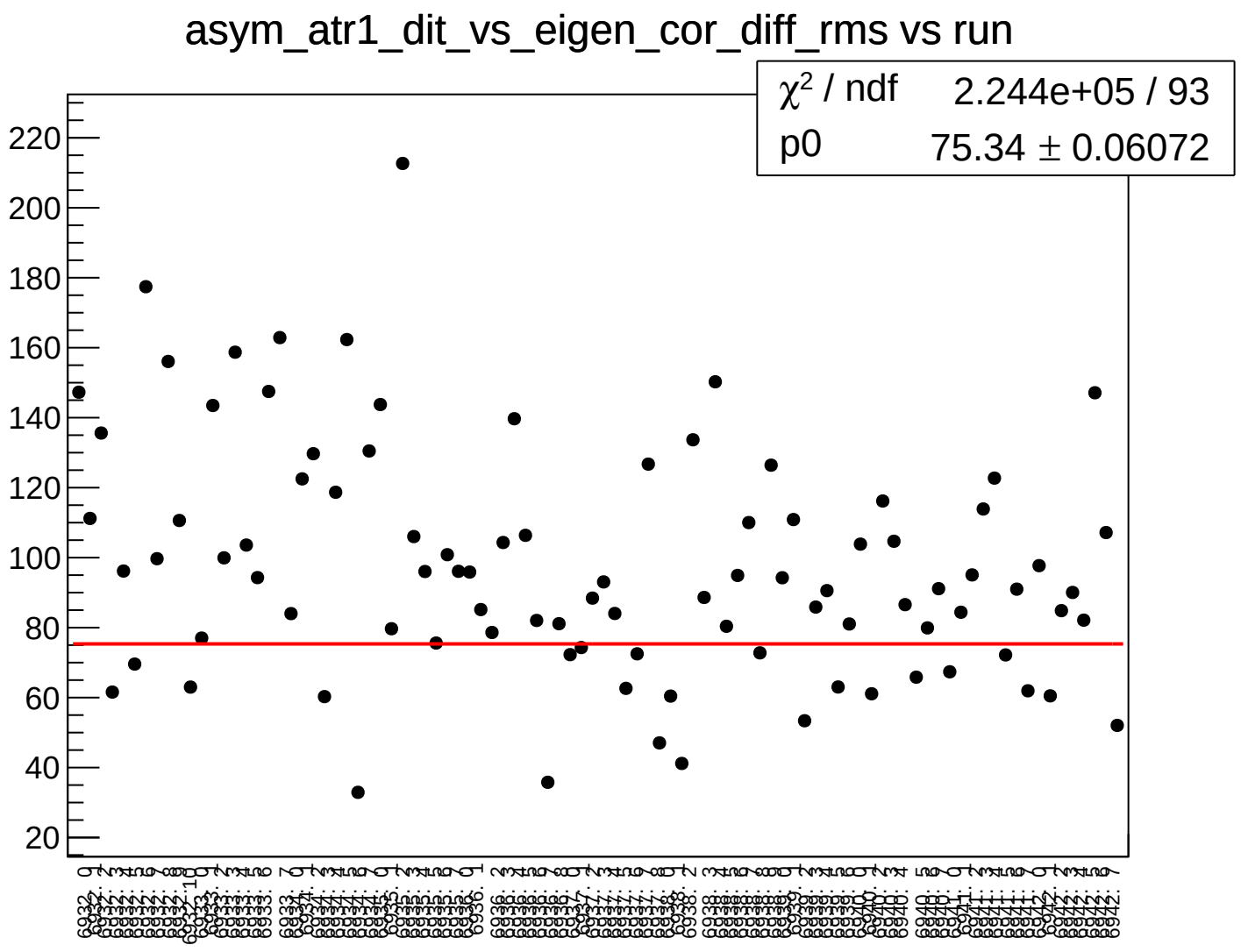

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 75.96 / 93
p0 −4.422e−14 ± 3.644e−14
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 53.08
Std Dev 40.08
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.05072
Std Dev 0.8975
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

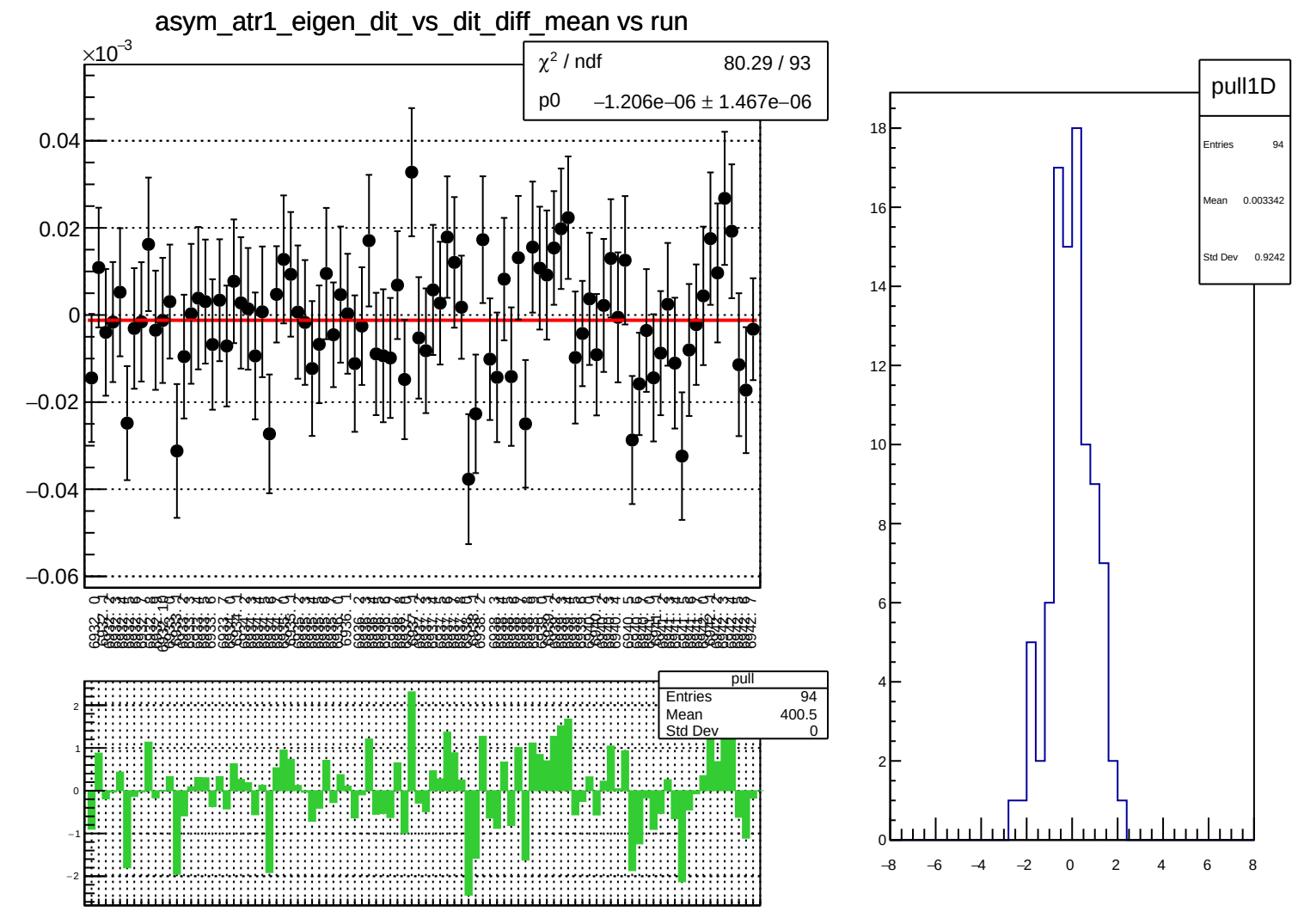

asym_atr1_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.887e+05 / 93
p0 2.269e−11 ± 2.577e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

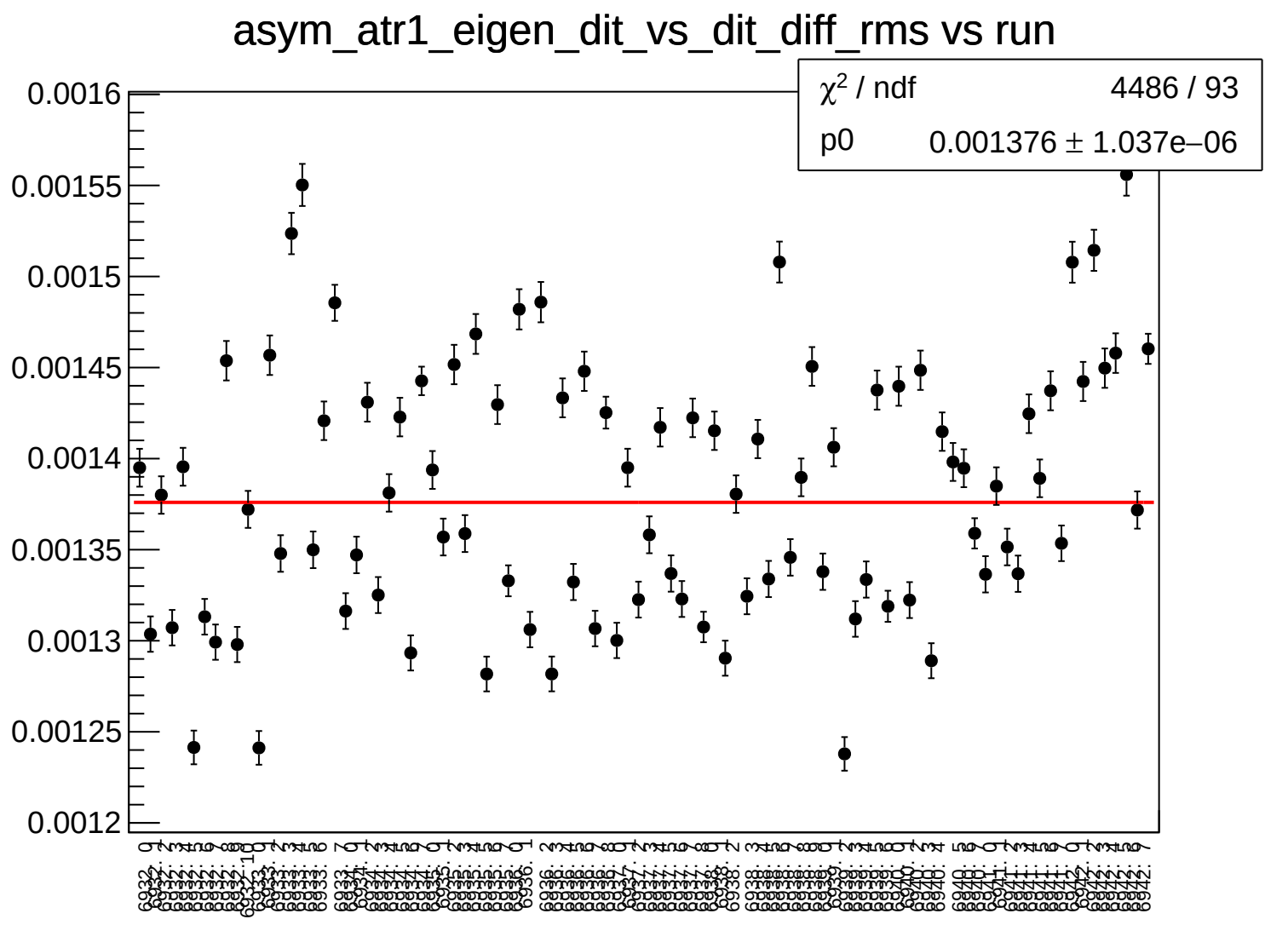

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 93
p0 −0.03269 ± 0.08587
pull
Entries 94
Mean 196.1
Std Dev 0
pull1D
Entries 94
Mean 0.03135
Std Dev 0.9009

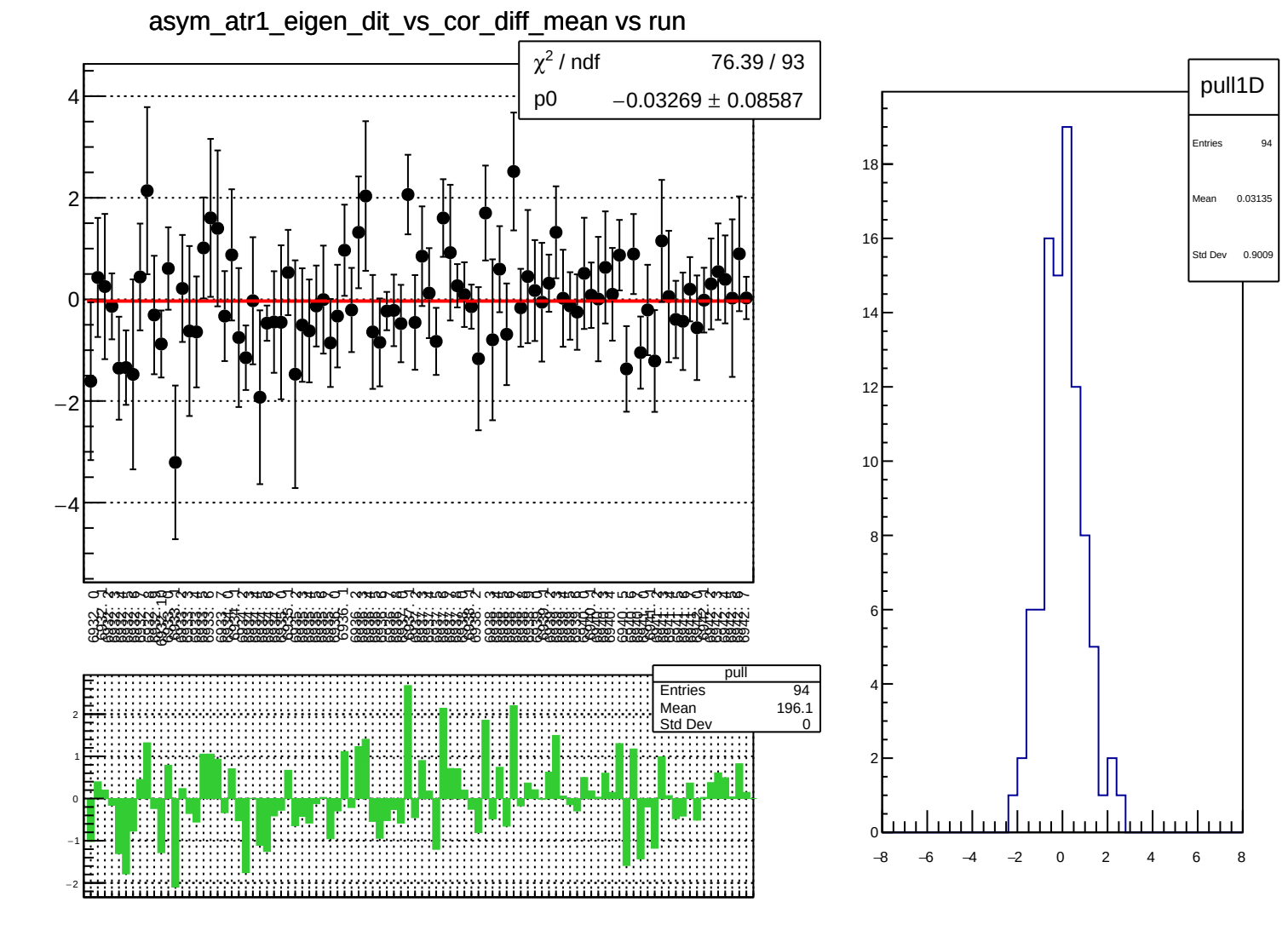

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 93
p0 75.34 ± 0.06072
220
200
180
160
140
120
100
80
60
40
20

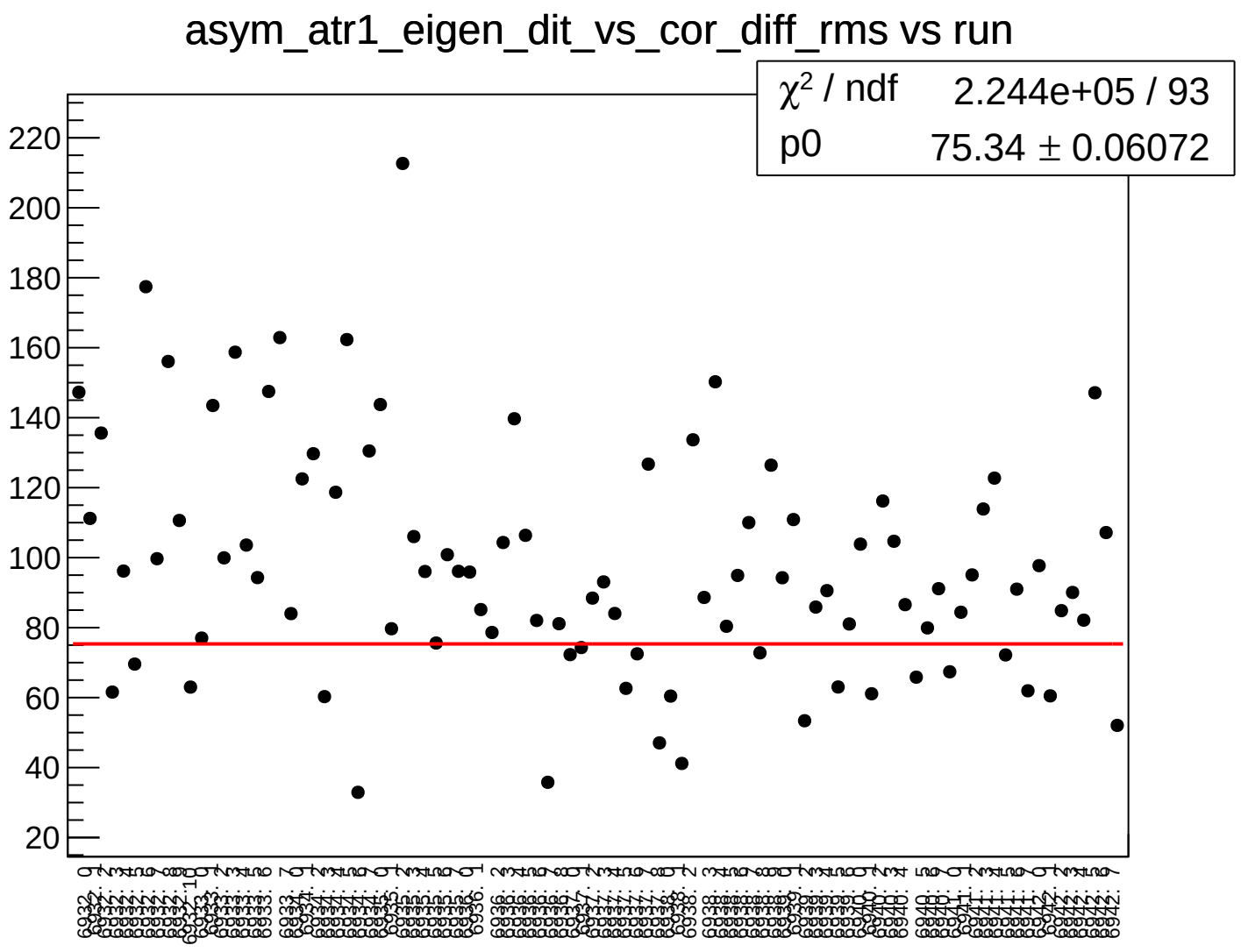

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 93
p0 −0.03269 ± 0.08587
pull
Entries 94
Mean 196.1
Std Dev 0
pull1D
Entries 94
Mean 0.03135
Std Dev 0.9009

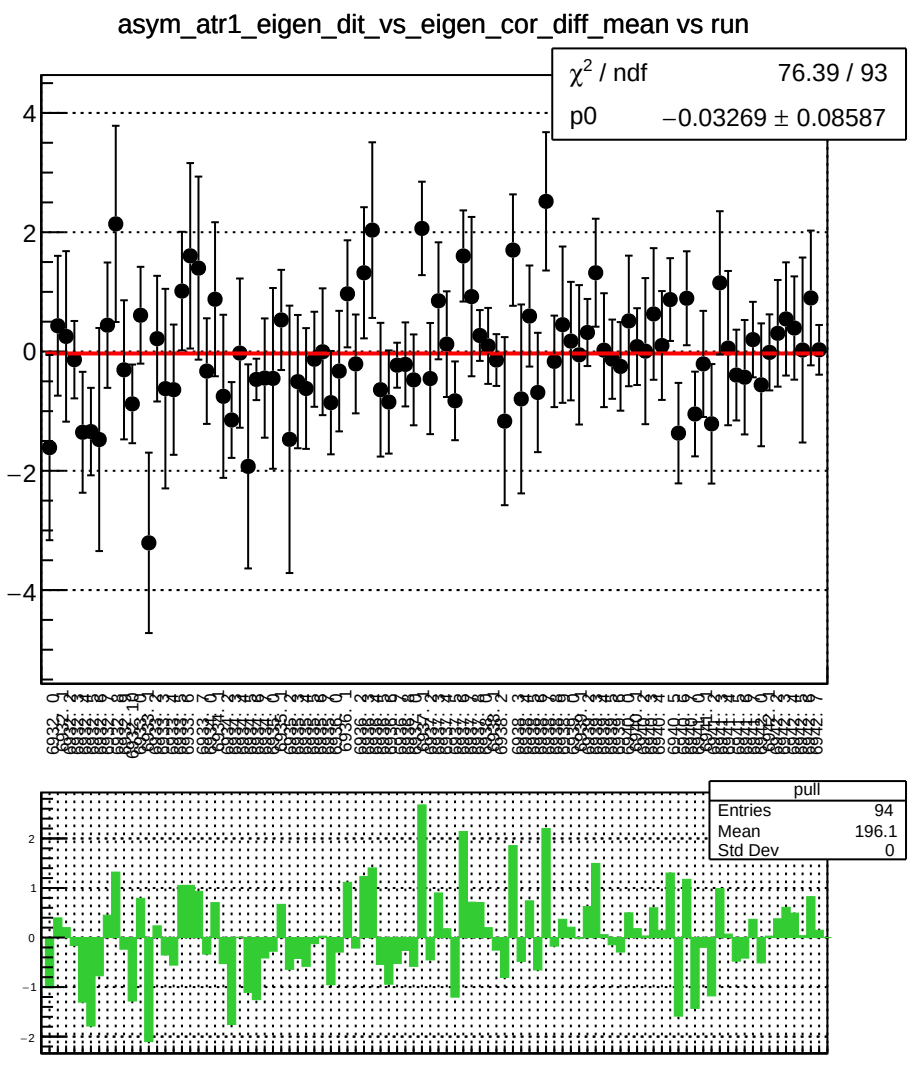

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 93
p0 75.34 ± 0.06072
220
200
180
160
140
120
100
80
60
40
20

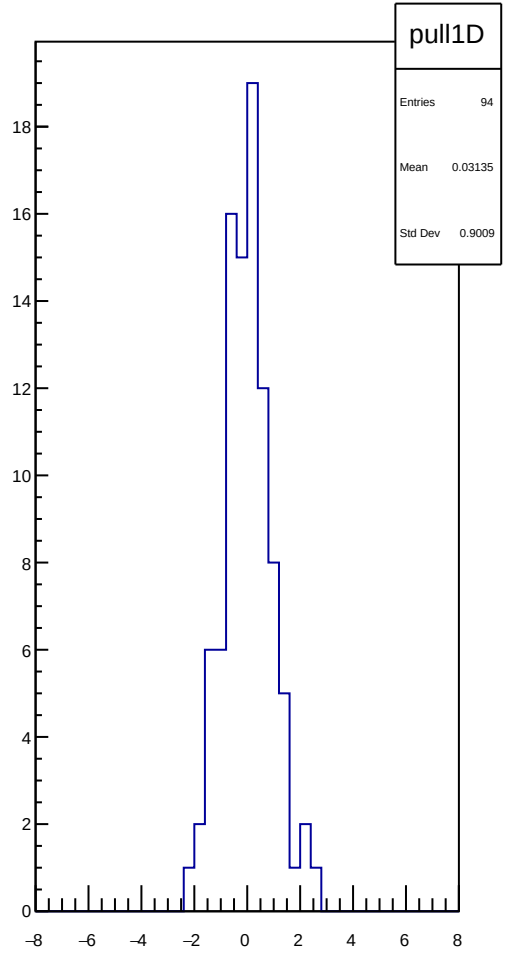

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.29 / 93
p0 −1.206e−06 ± 1.467e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 400.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003342
Std Dev 0.9242
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

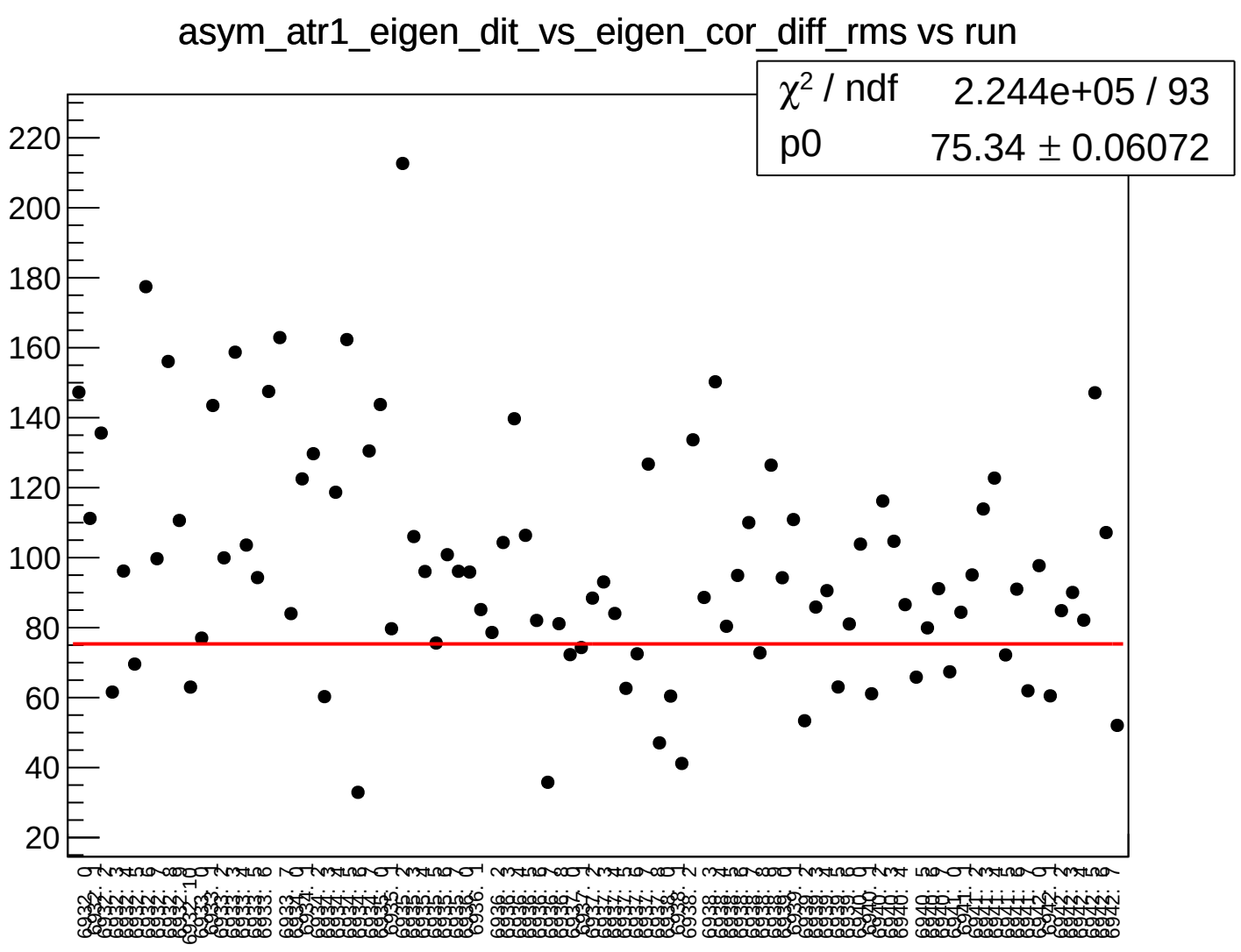

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4486 / 93
p0 0.001376 ± 1.037e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012

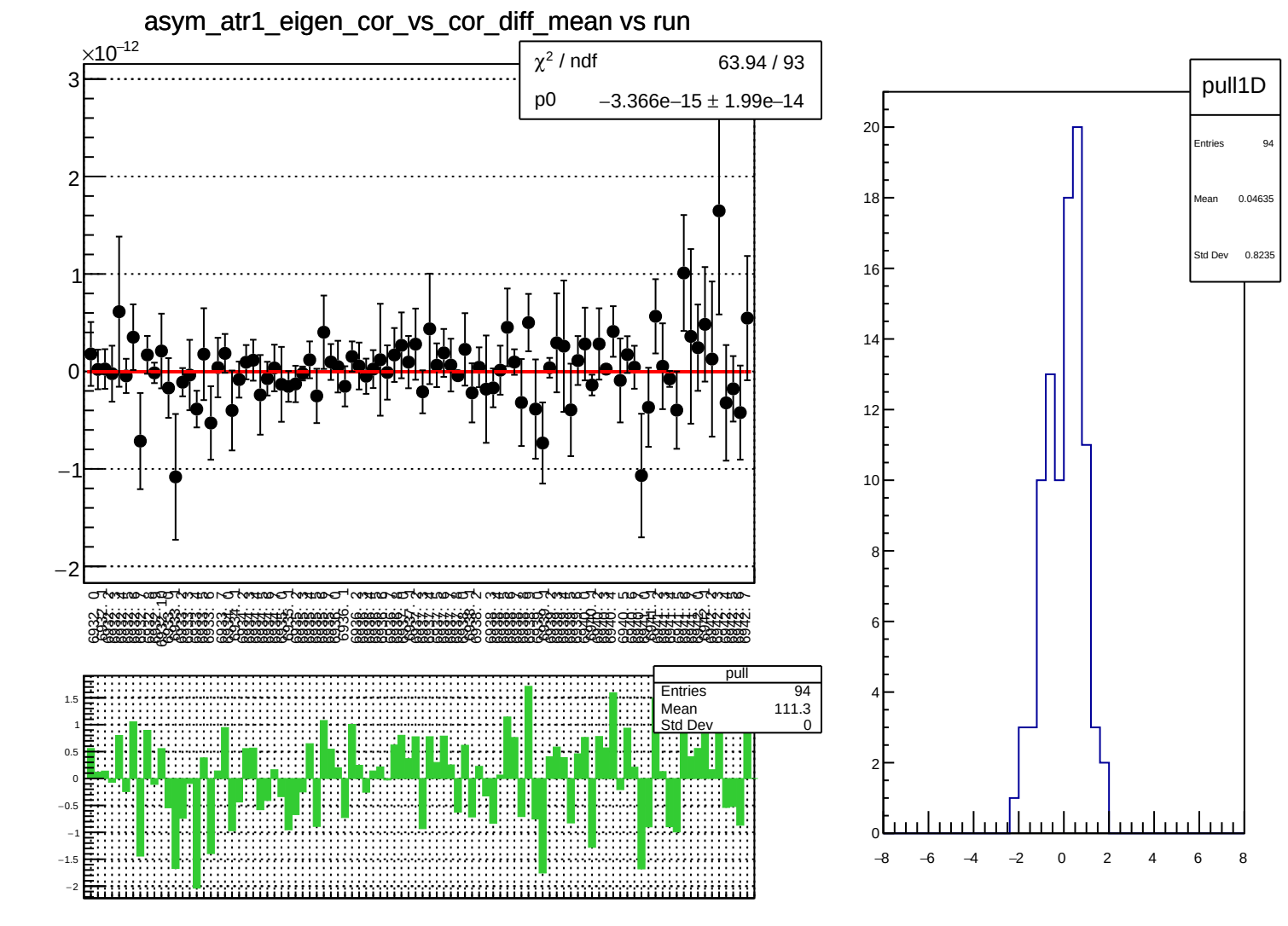

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 93
p0 −0.03269 ± 0.08587
pull
Entries 94
Mean 196.1
Std Dev 0
pull1D
Entries 94
Mean 0.03135
Std Dev 0.9009

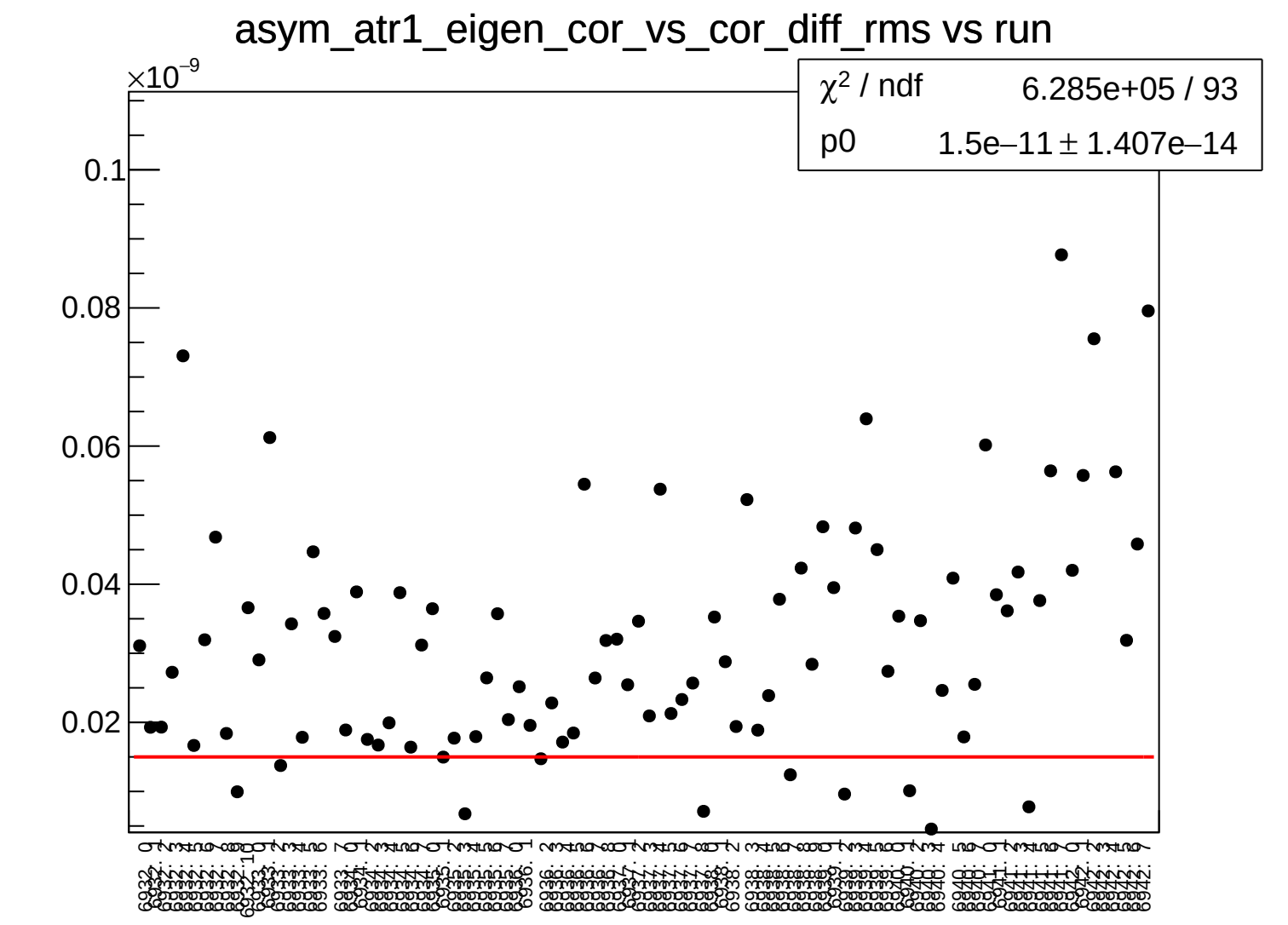

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 93
p0 75.34 ± 0.06072
220
200
180
160
140
120
100
80
60
40
20

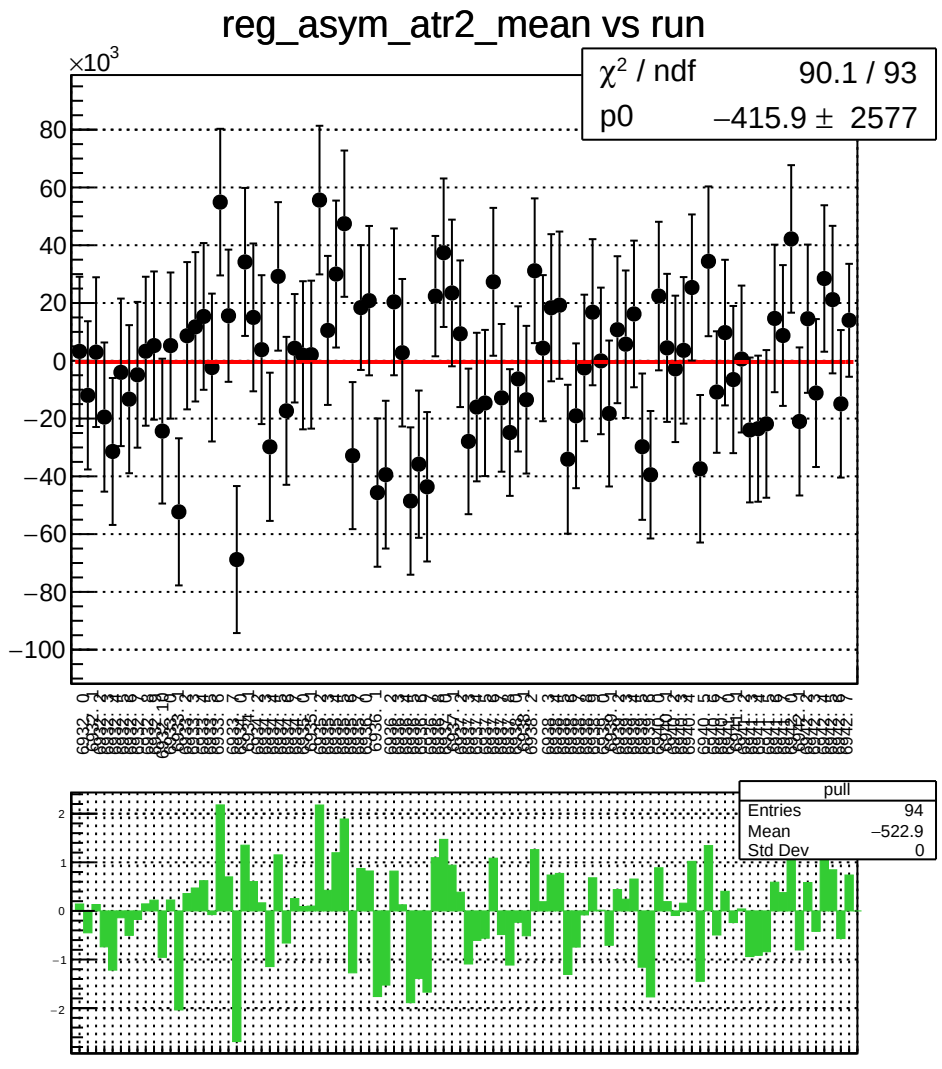

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.39 / 93
p0 −0.03269 ± 0.08587
pull
Entries 94
Mean 196.1
Std Dev 0

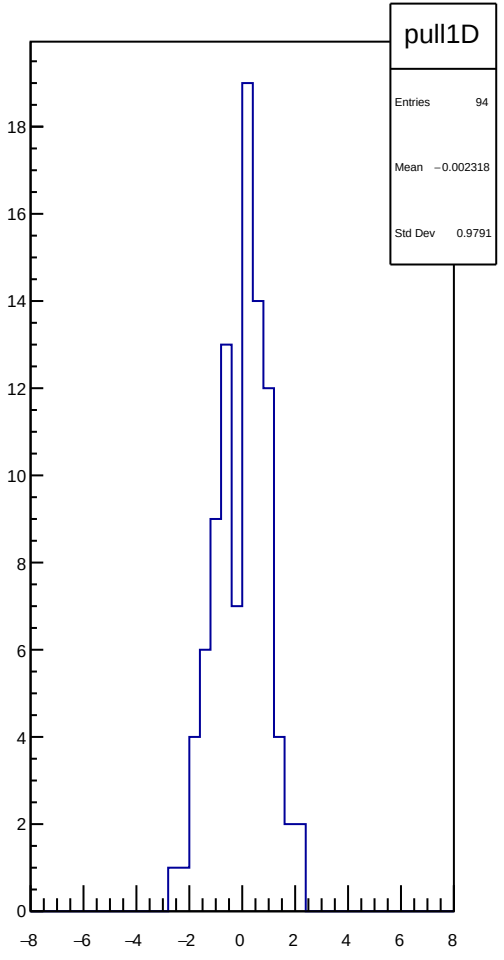

pull1D
Entries 94
Mean 0.03135
Std Dev 0.9009

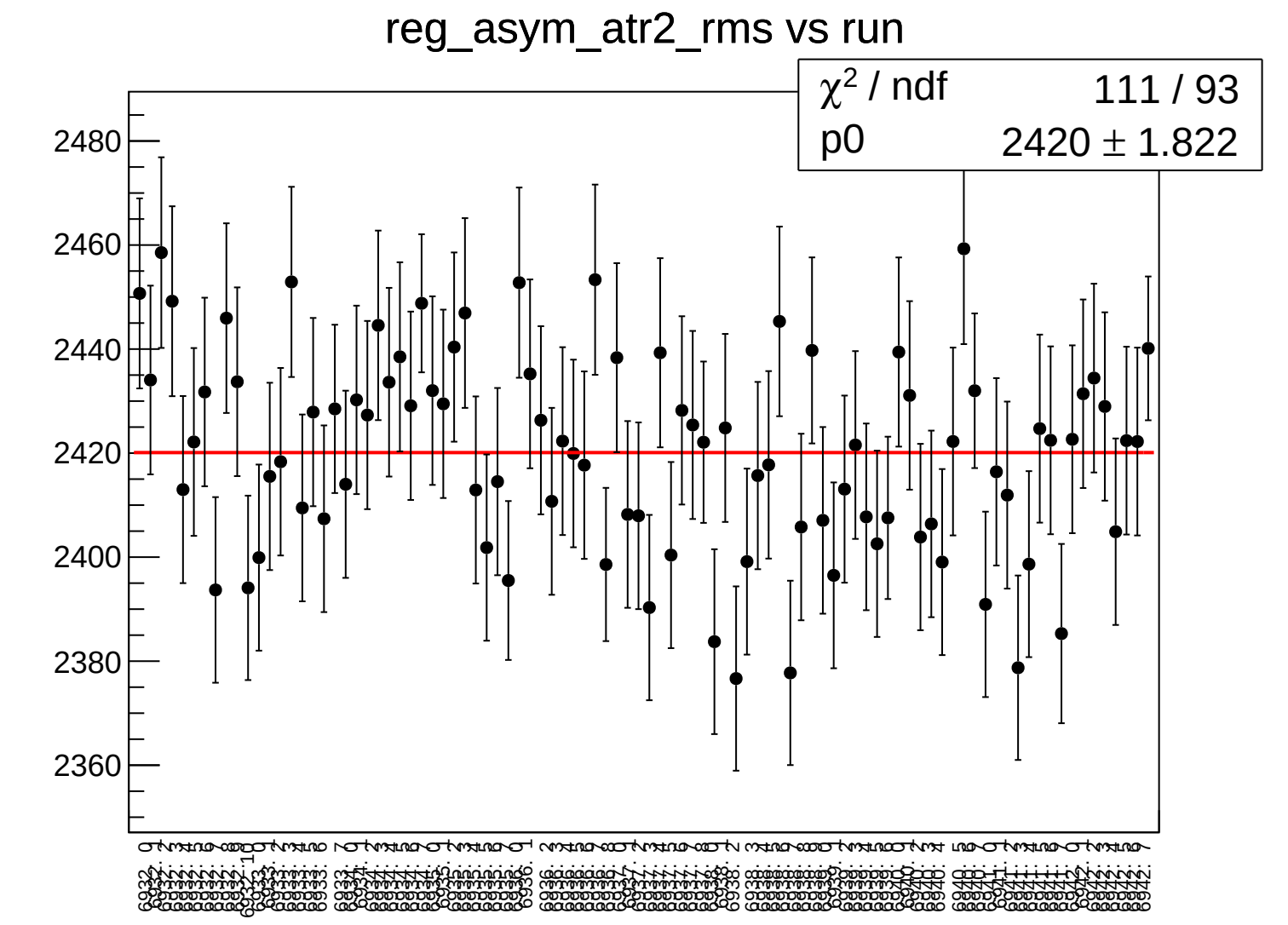

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.244e+05 / 93
p0 75.34 ± 0.06072
220
200
180
160
140
120
100
80
60
40
20

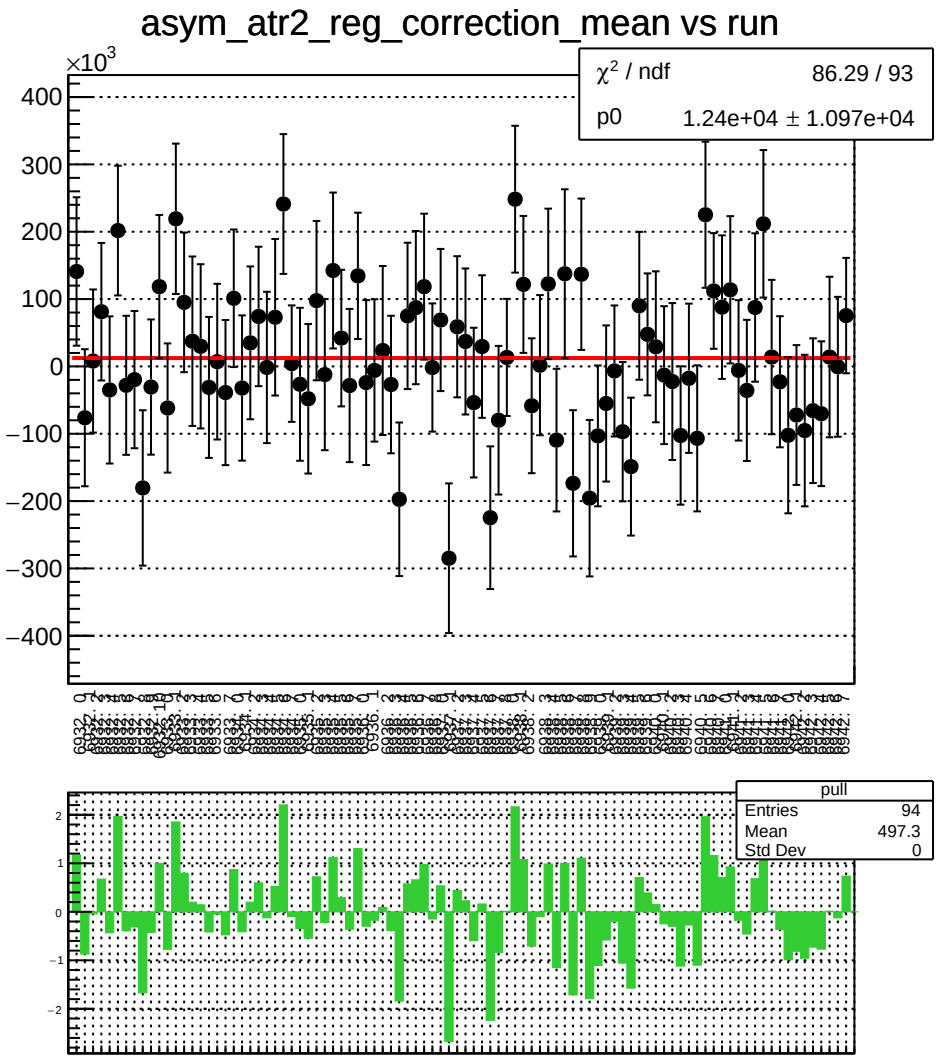

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.94 / 93
p0 −3.366e−15 ± 1.99e−14
pull
Entries 94
Mean 111.3
Std Dev 0
pull1D
Entries 94
Mean 0.04635
Std Dev 0.8235

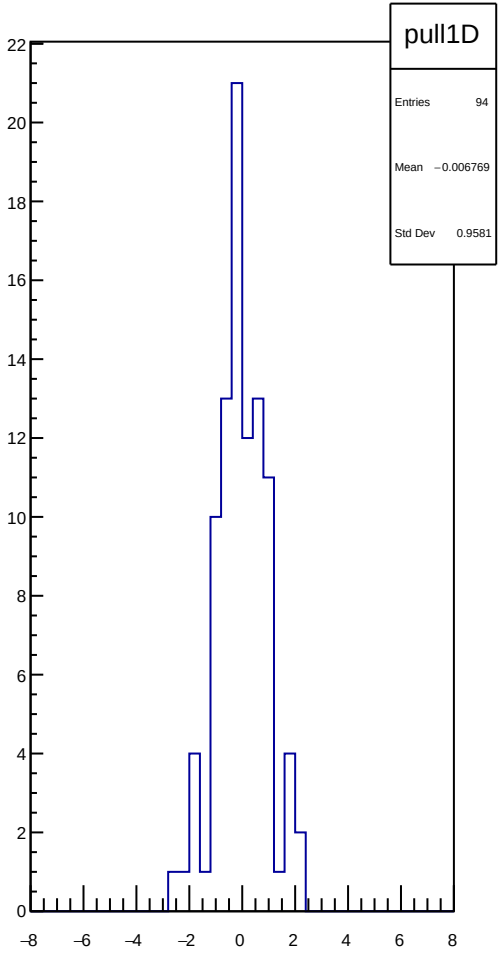

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.285e+05 / 93
p0 1.5e−11 ± 1.407e−14
0.1
0.08
0.06
0.04
0.02

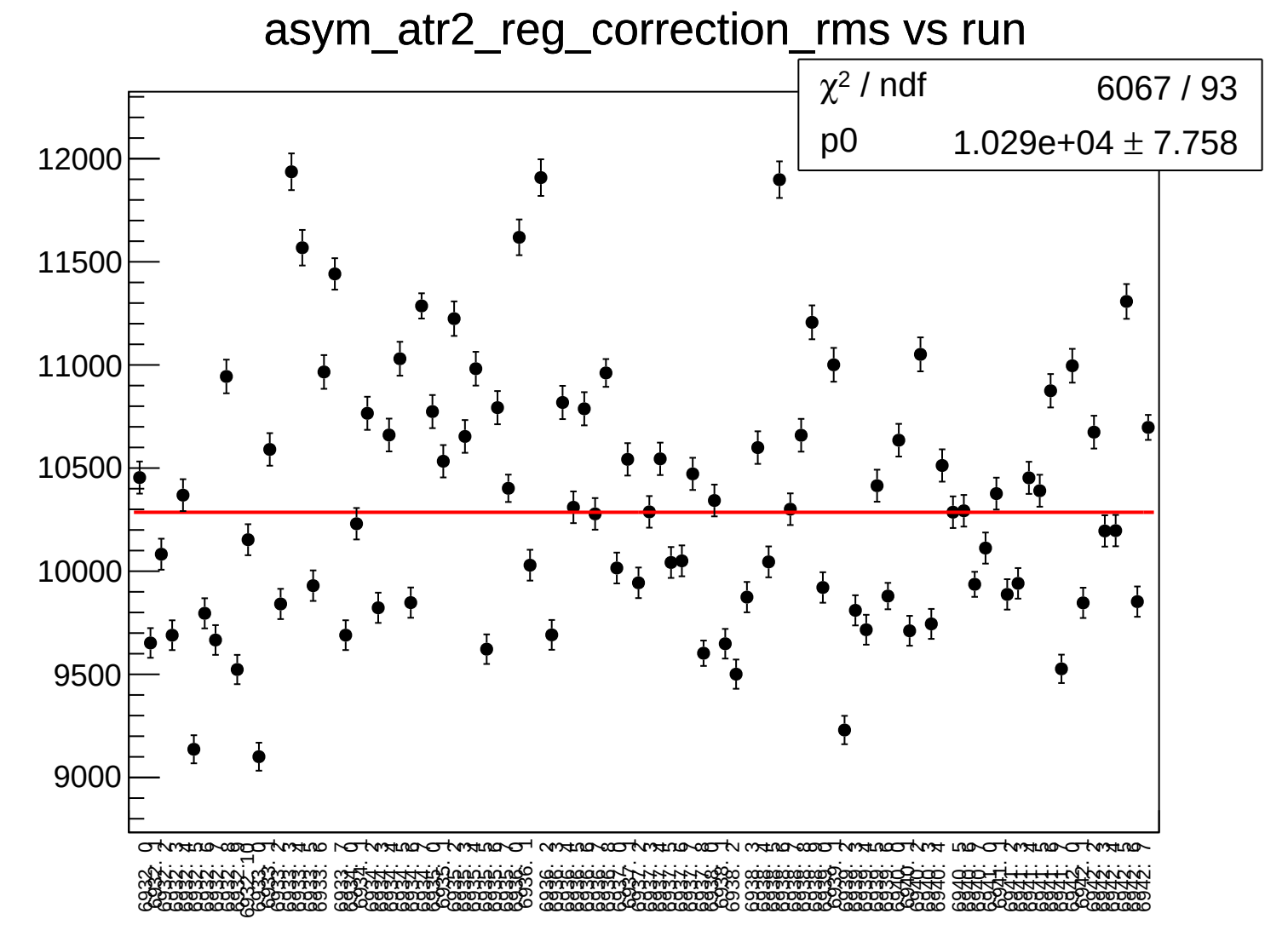

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 90.1 / 93
p0 −415.9 ± 2577
pull
Entries 94
Mean −522.9
Std Dev 0

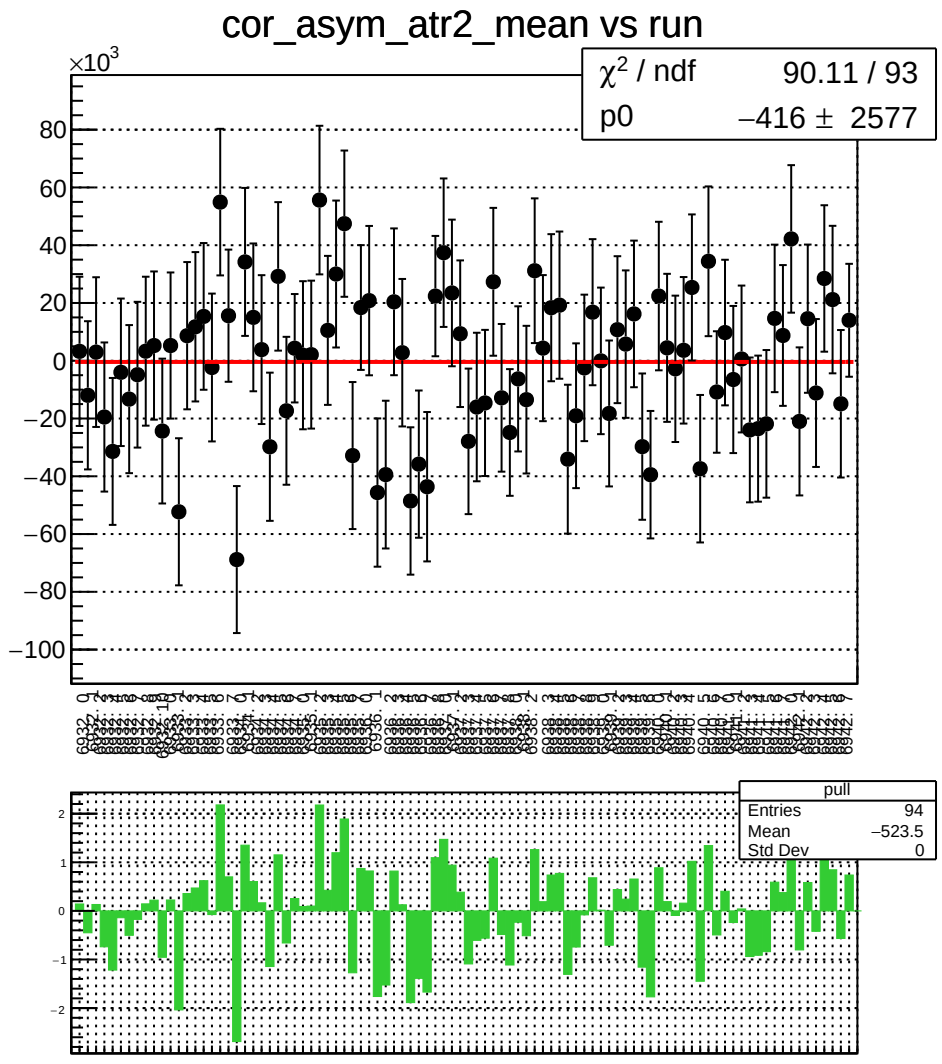

pull1D
Entries 94
Mean −0.002318
Std Dev 0.9791

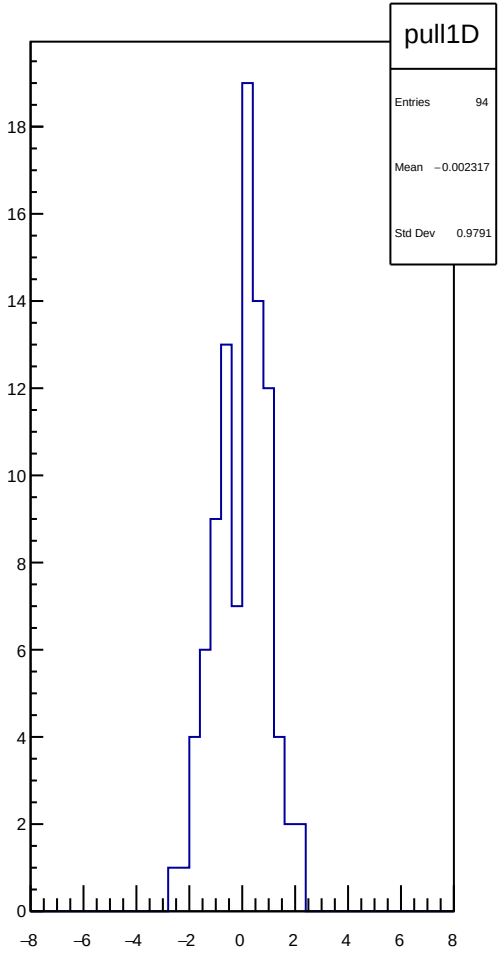

reg_asym_atr2_rms vs run
χ^2 / ndf 111 / 93
p0 2420 ± 1.822
2480
2460
2440
2420
2400
2380
2360

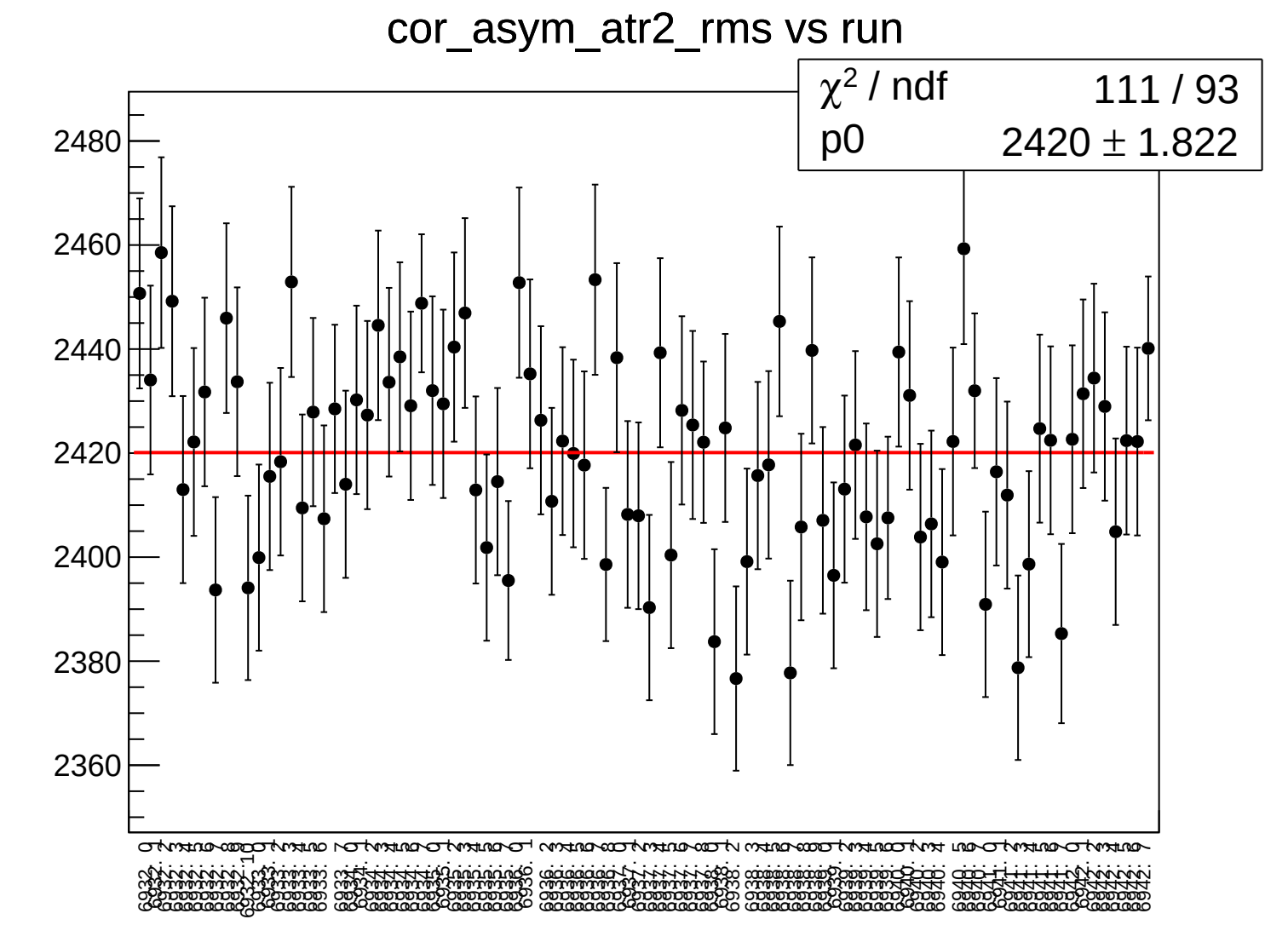

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 86.29 / 93
p0 1.24e+04 ± 1.097e+04
pull
Entries 94
Mean 497.3
Std Dev 0

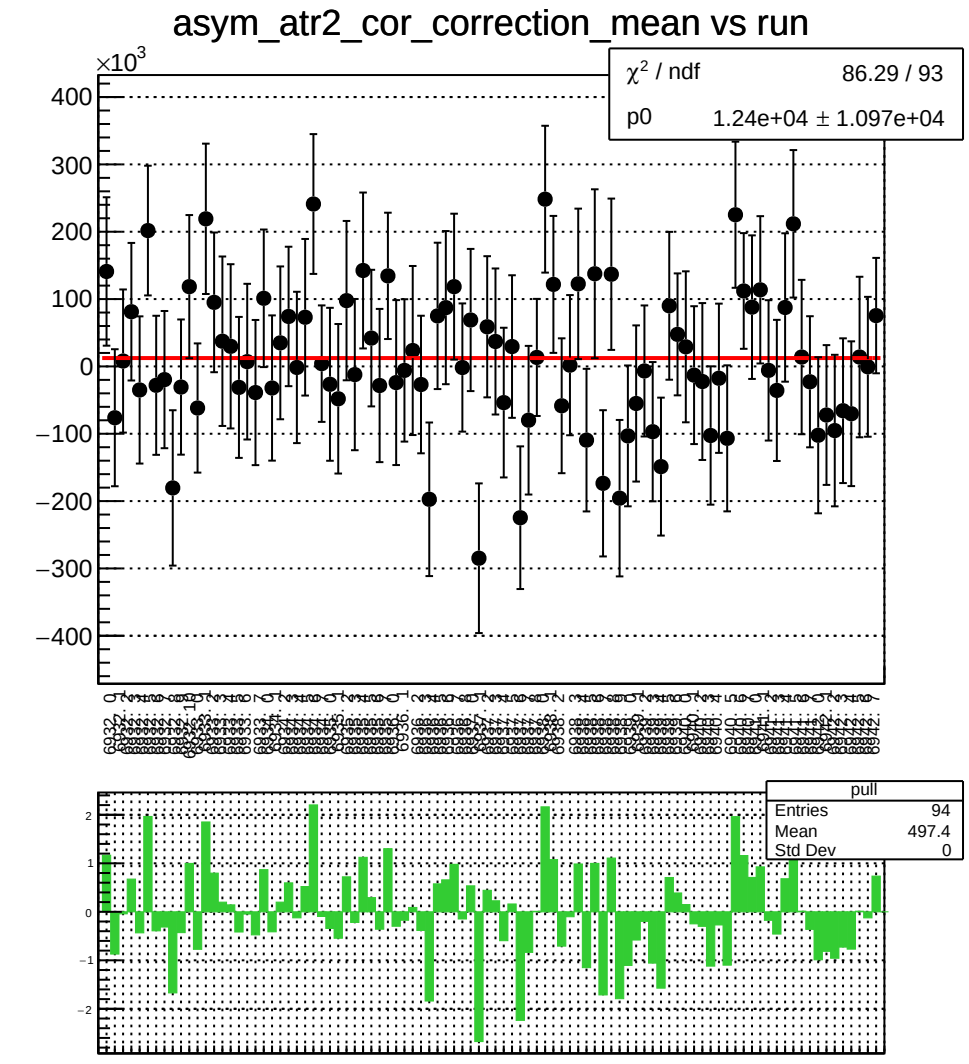

pull1D
Entries 94
Mean −0.006769
Std Dev 0.9581

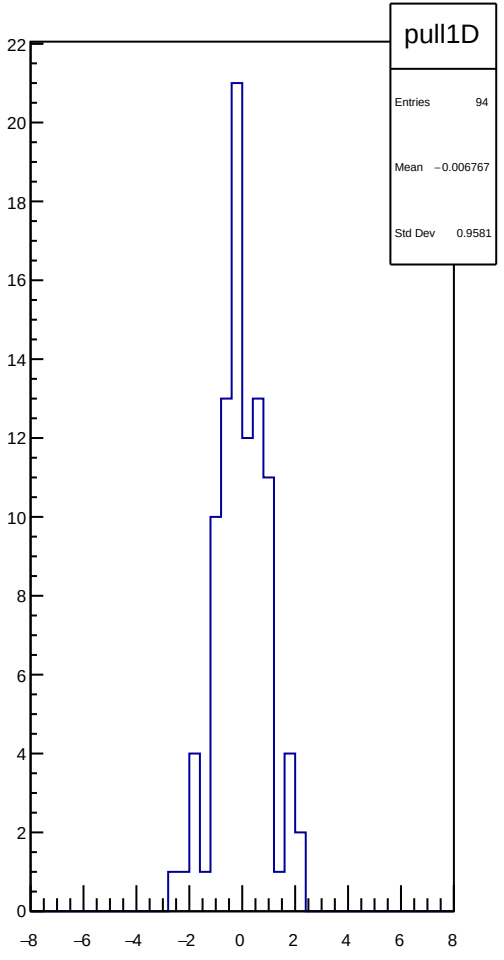

asym_atr2_reg_correction_rms vs run
χ² / ndf 6067 / 93
p0 1.029e+04 ± 7.758
12000
11500
11000
10500
10000
9500
9000

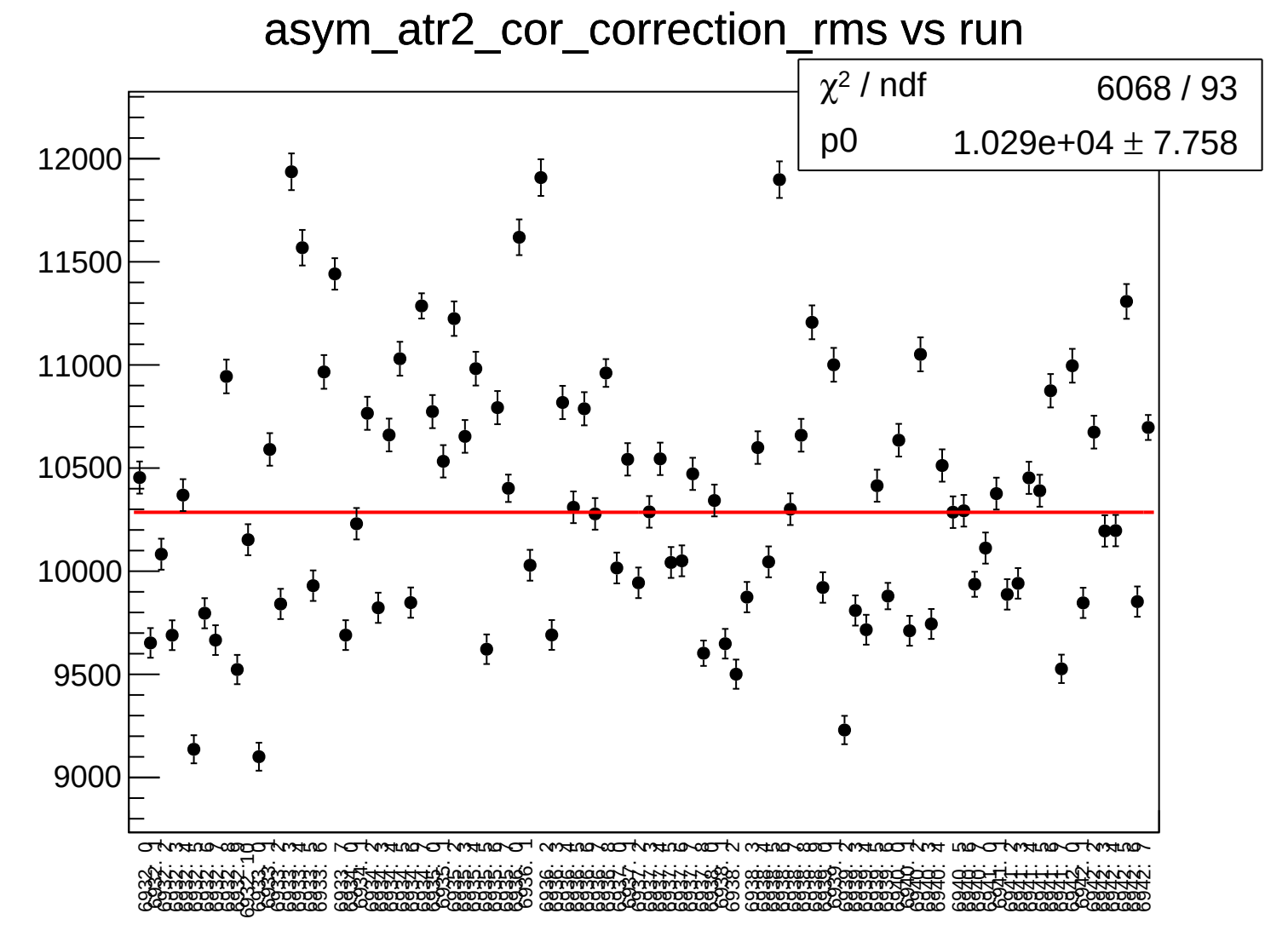

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 90.11 / 93
p0 −416 ± 2577
pull
Entries 94
Mean −523.5
Std Dev 0

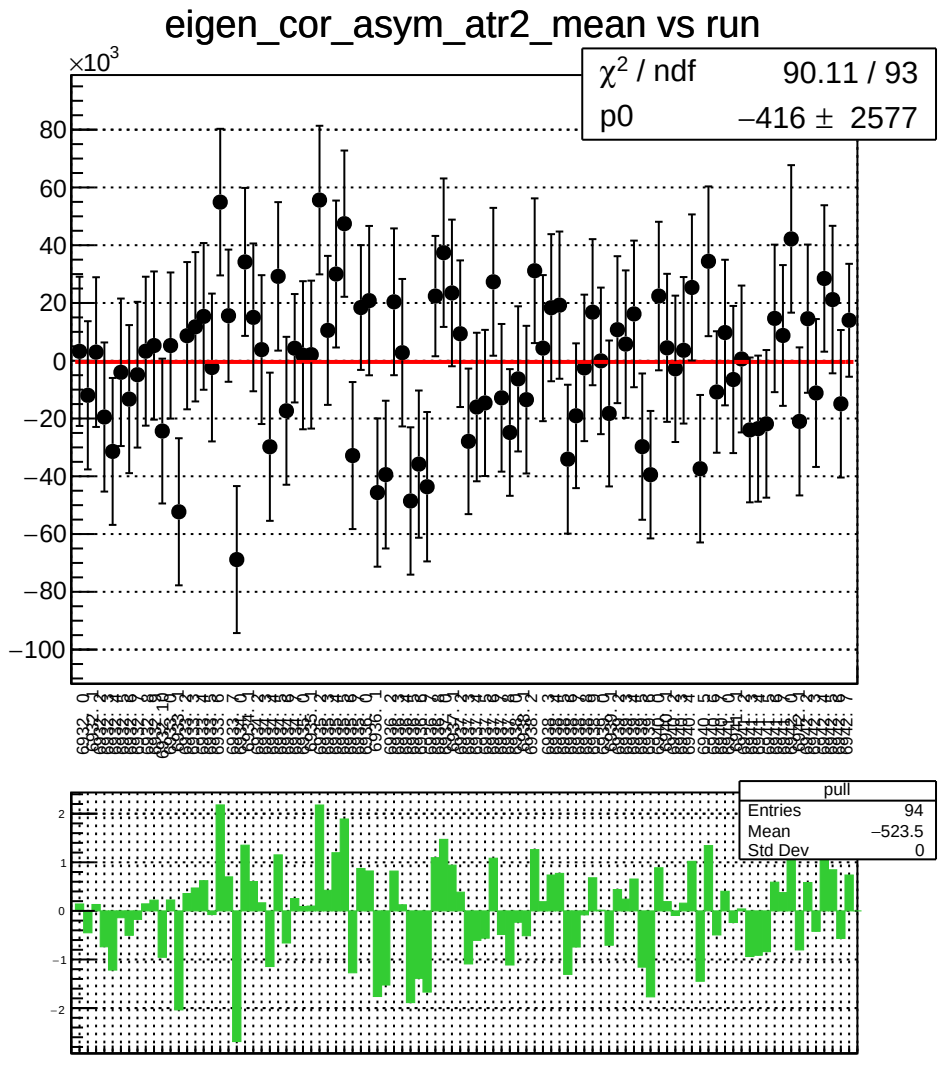

pull1D
Entries 94
Mean −0.002317
Std Dev 0.9791

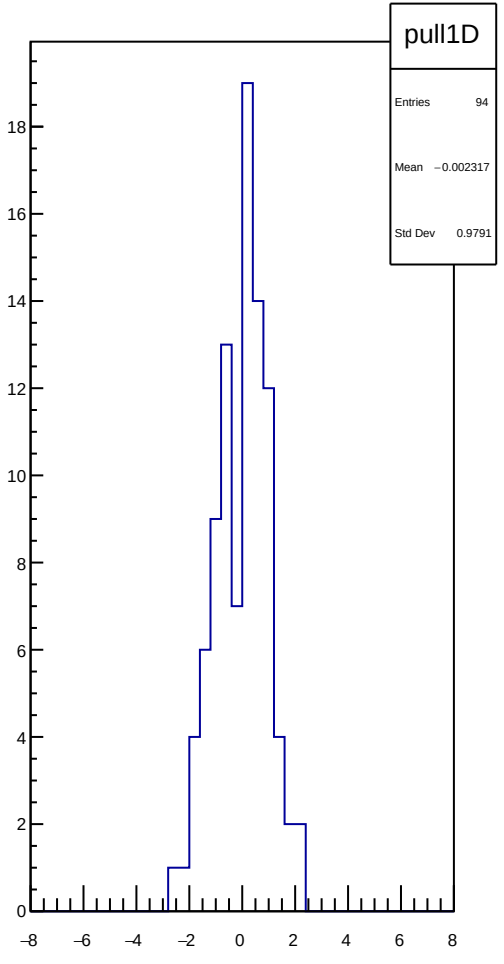

cor_asym_atr2_rms vs run
χ² / ndf 111 / 93
p0 2420 ± 1.822
2480
2460
2440
2420
2400
2380
2360

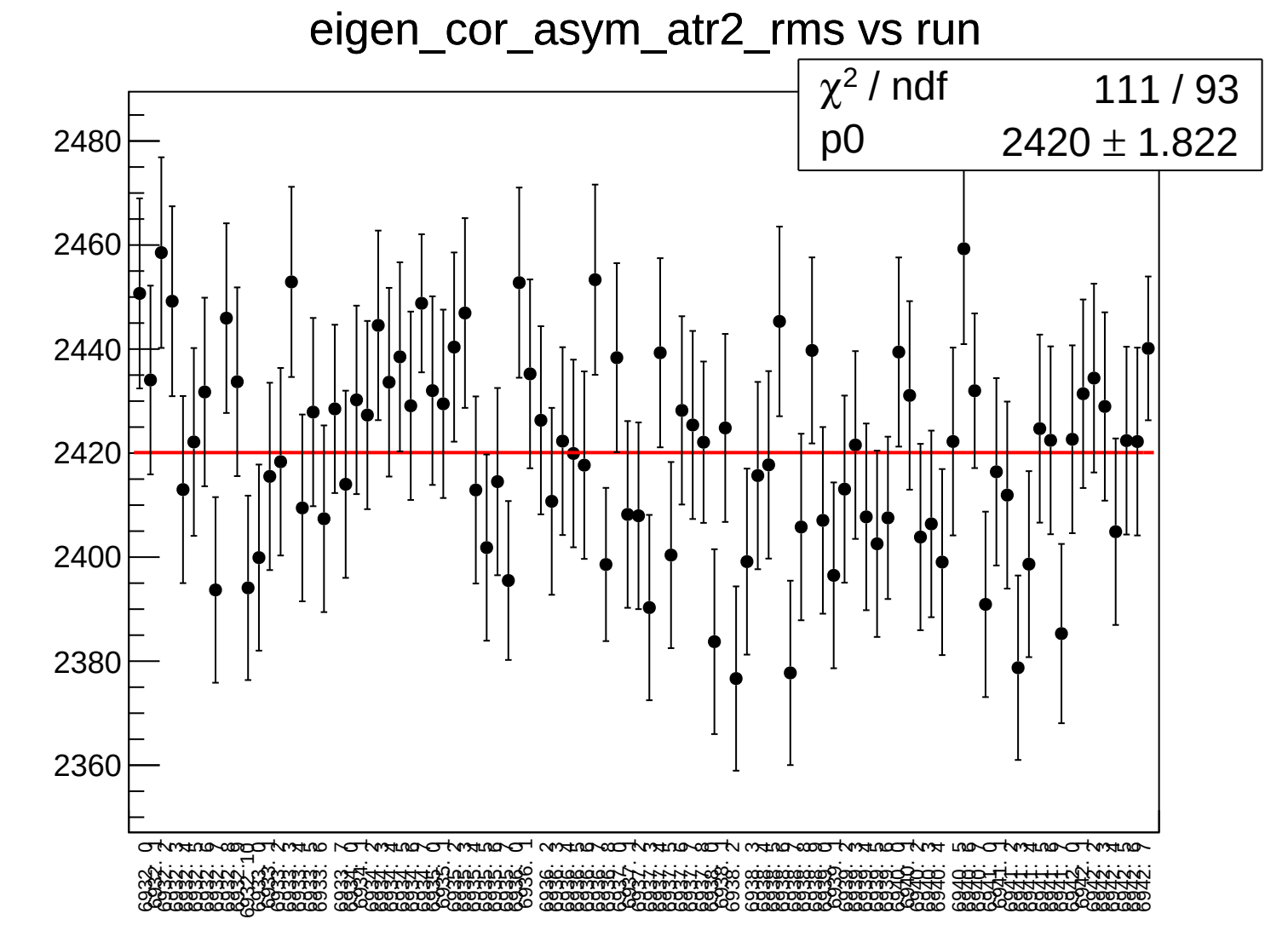

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 86.29 / 93
p0 1.24e+04 ± 1.097e+04
pull
Entries 94
Mean 497.4
Std Dev 0

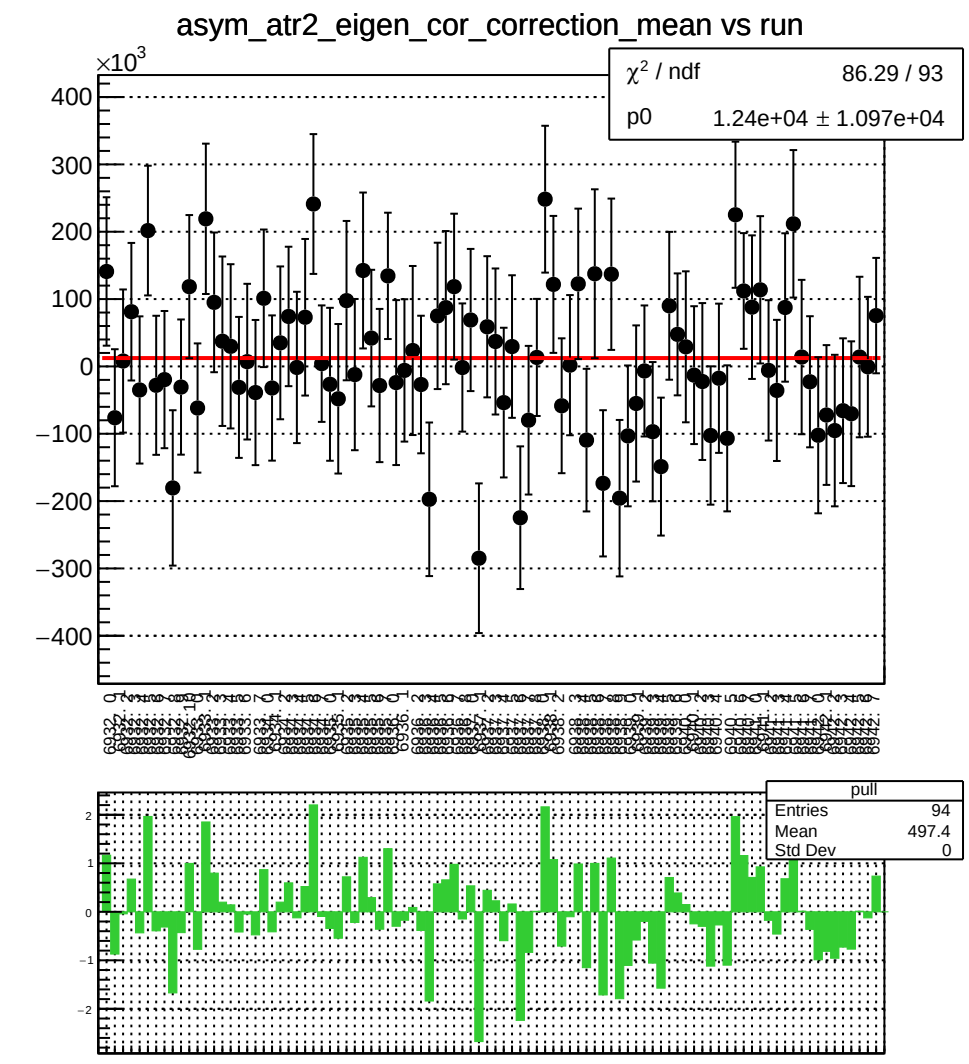

pull1D
Entries 94
Mean −0.006767
Std Dev 0.9581

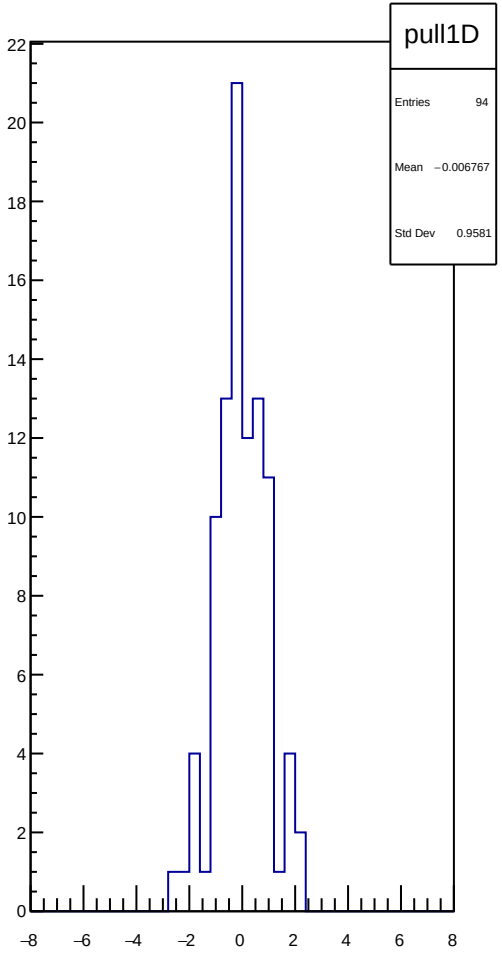

asym_atr2_cor_correction_rms vs run
χ² / ndf 6068 / 93
p0 1.029e+04 ± 7.758
12000
11500
11000
10500
10000
9500
9000

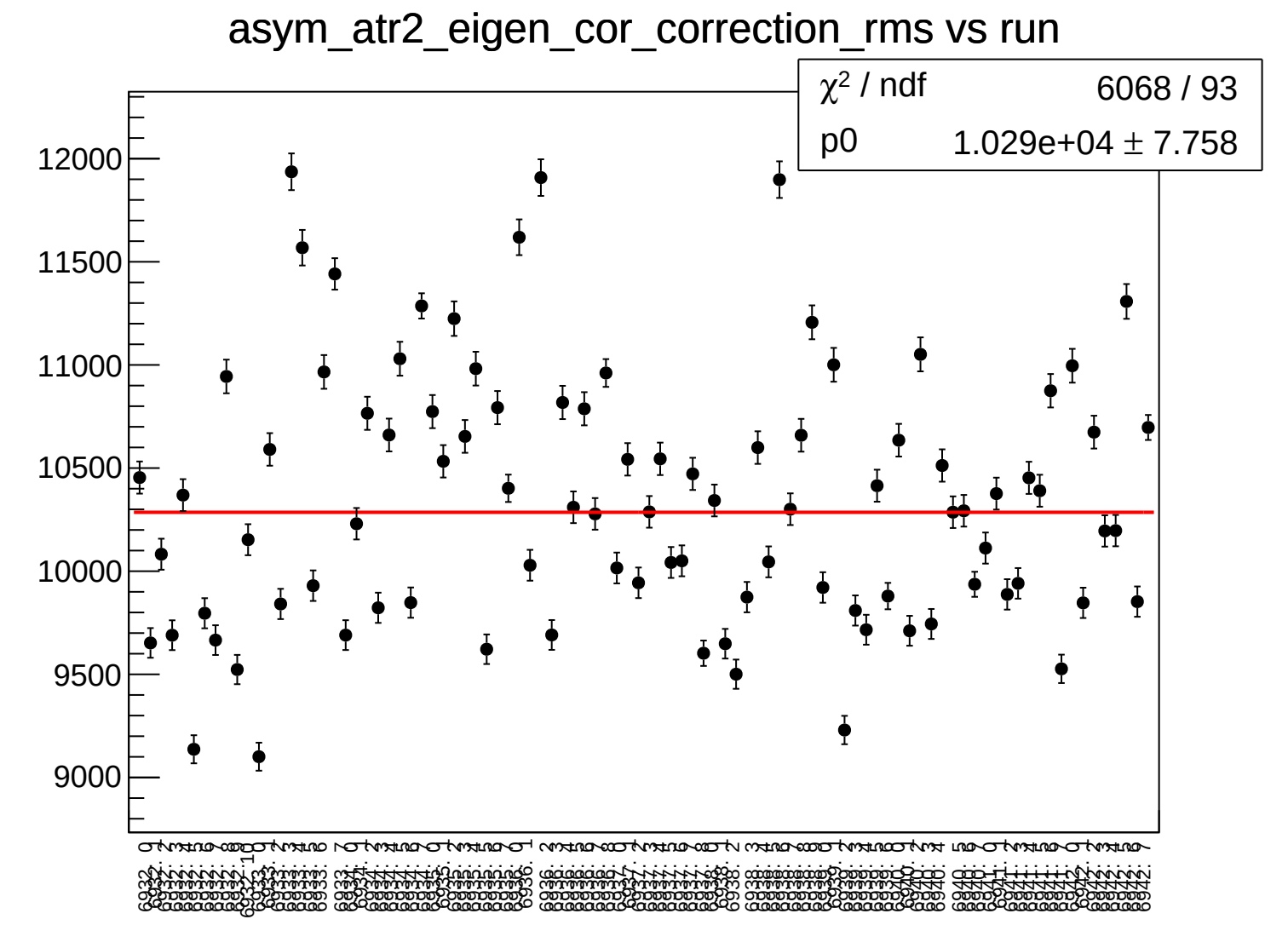

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 90.11 / 93
p0 −416 ± 2577
pull
Entries 94
Mean −523.5
Std Dev 0

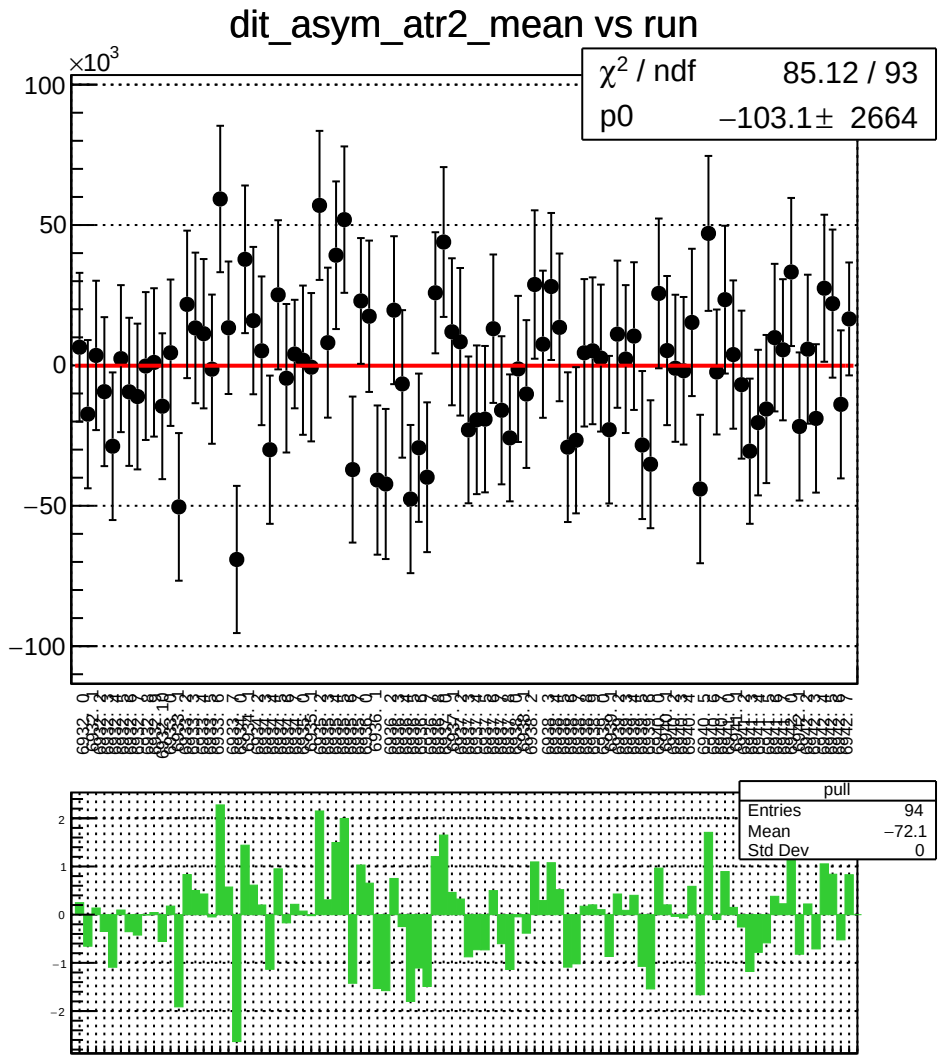

pull1D
Entries 94
Mean −0.002317
Std Dev 0.9791

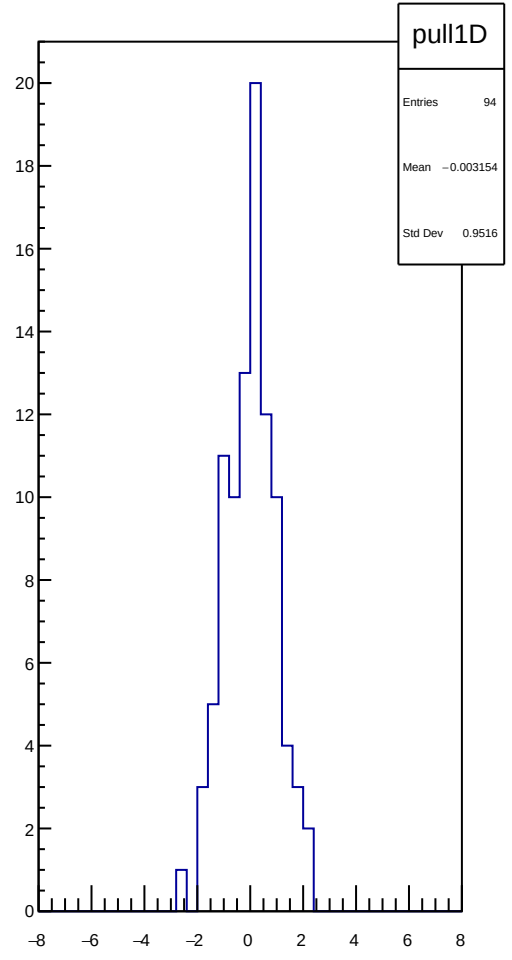

eigen_cor_asym_atr2_rms vs run
χ² / ndf 111 / 93
p0 2420 ± 1.822
2480
2460
2440
2420
2400
2380
2360

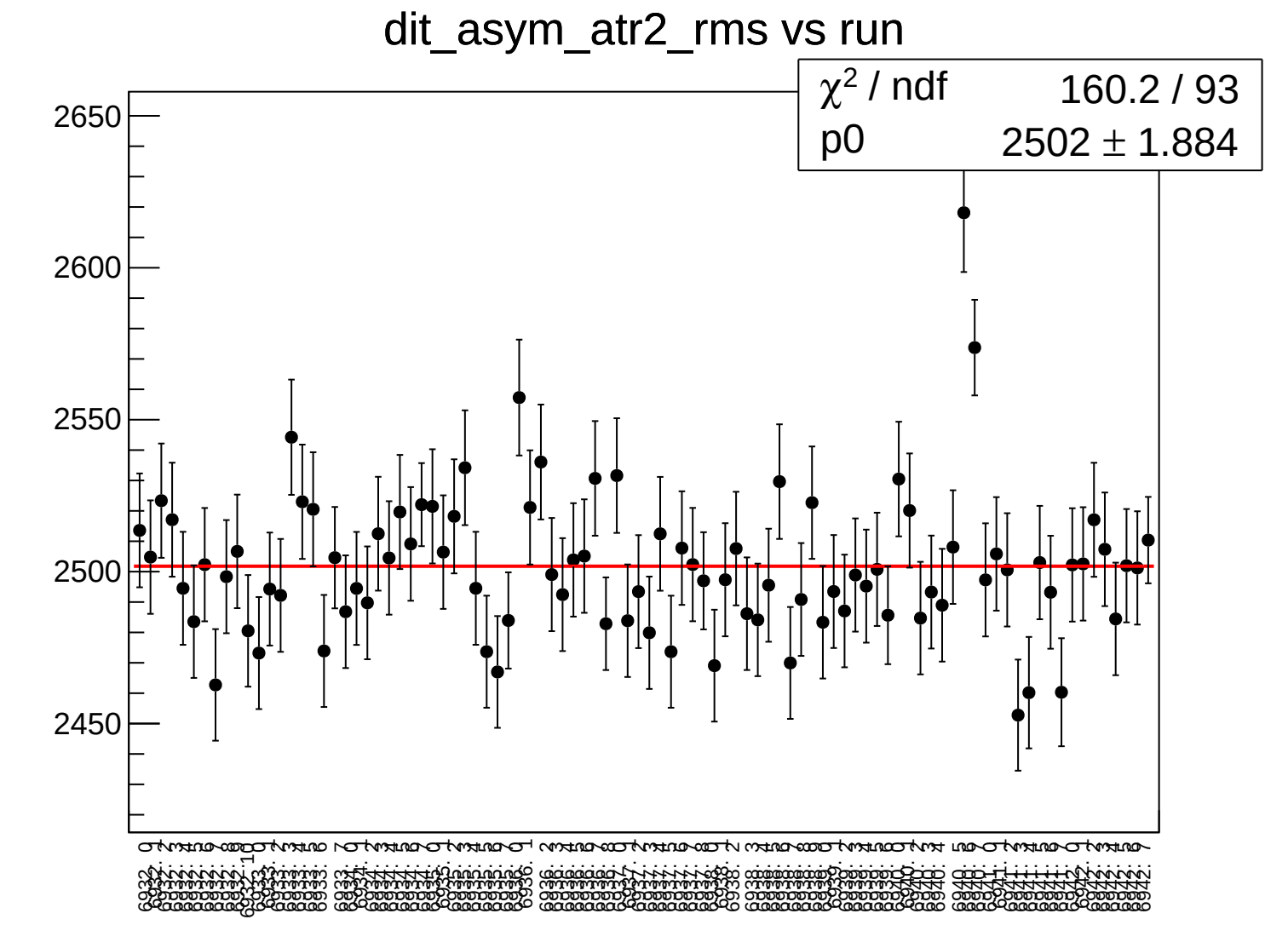

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.29 / 93
p0 1.24e+04 ± 1.097e+04
pull
Entries 94
Mean 497.4
Std Dev 0

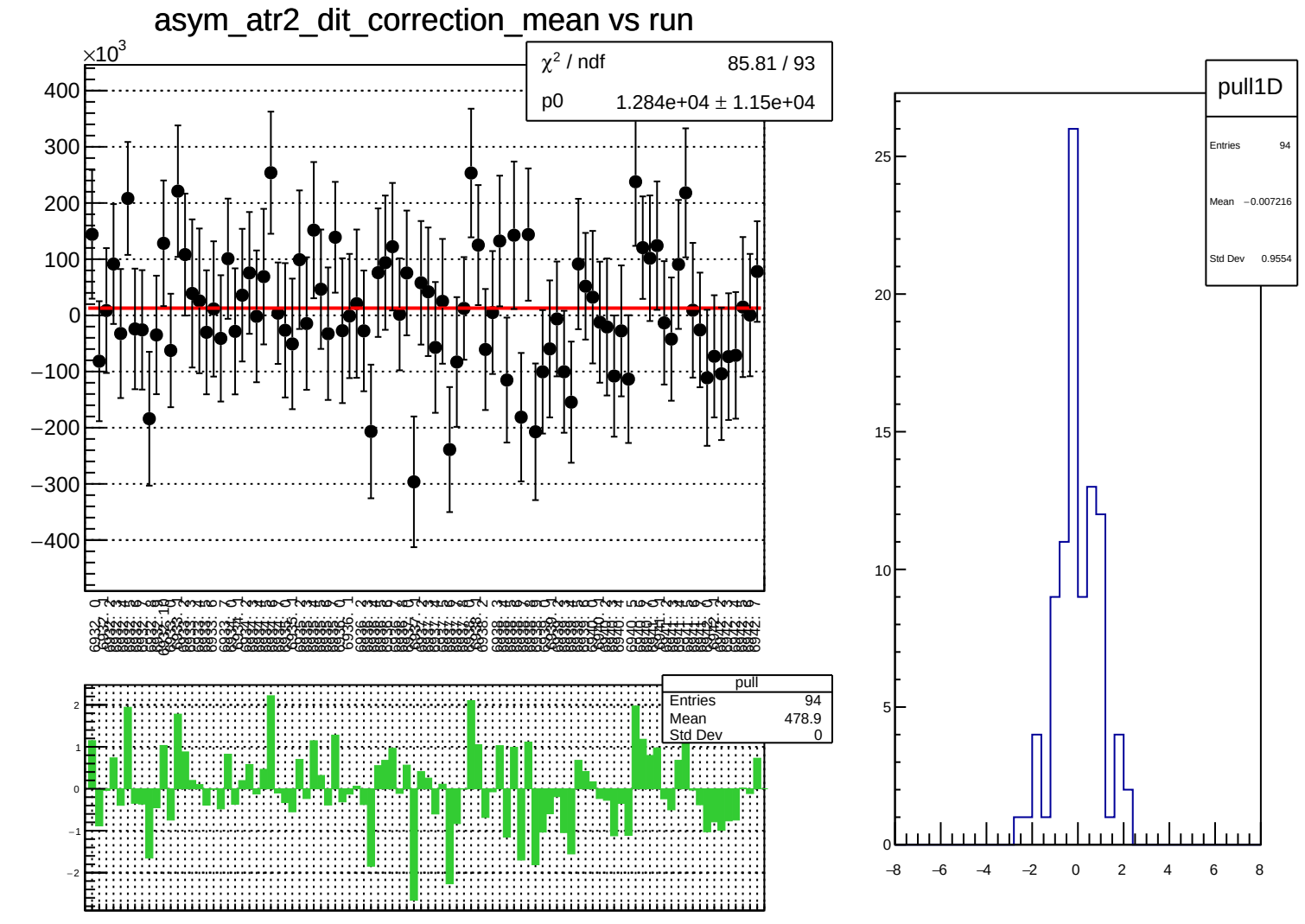

pull1D
Entries 94
Mean −0.006767
Std Dev 0.9581

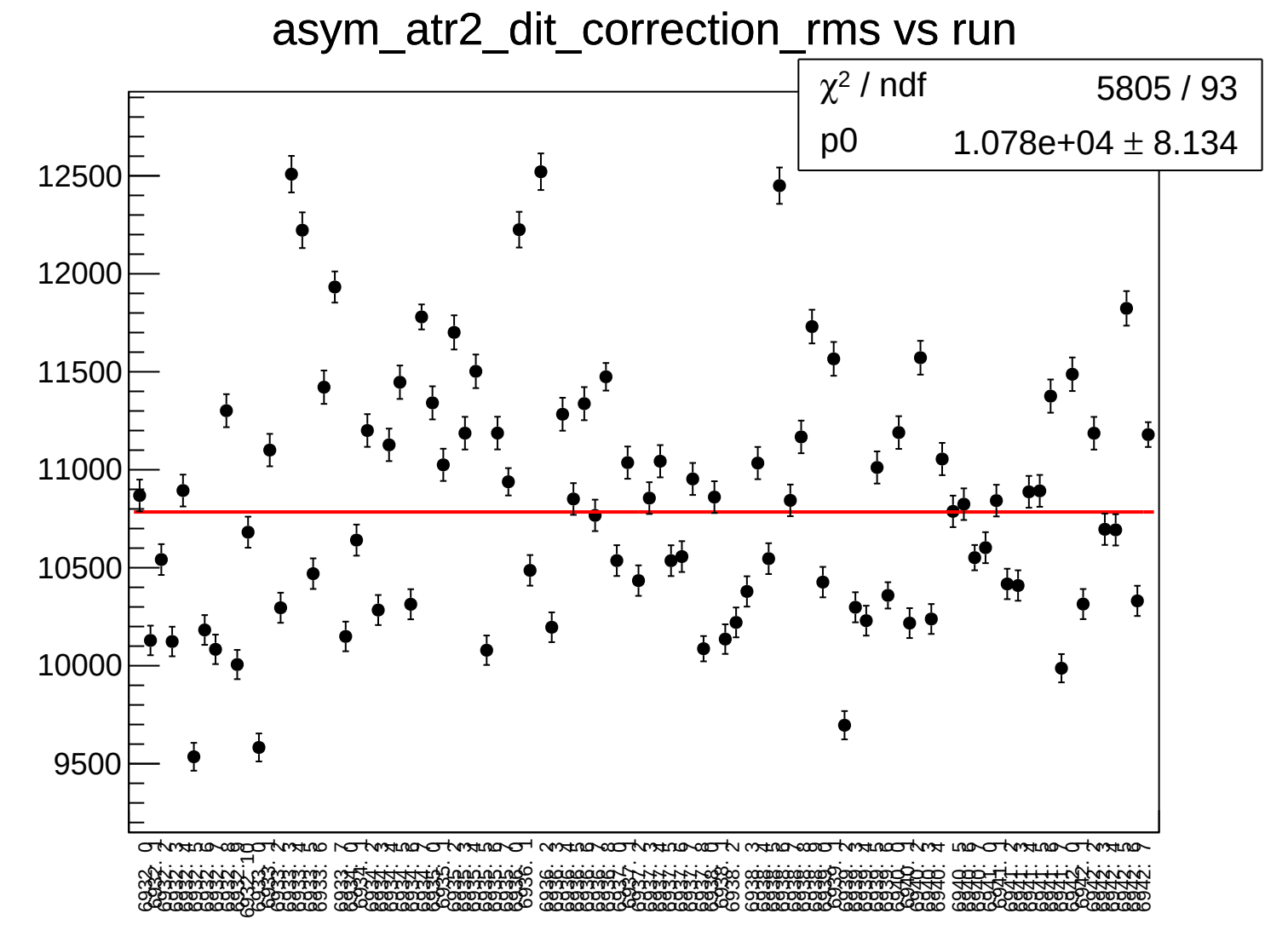

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 6068 / 93
p0 1.029e+04 ± 7.758
12000
11500
11000
10500
10000
9500
9000

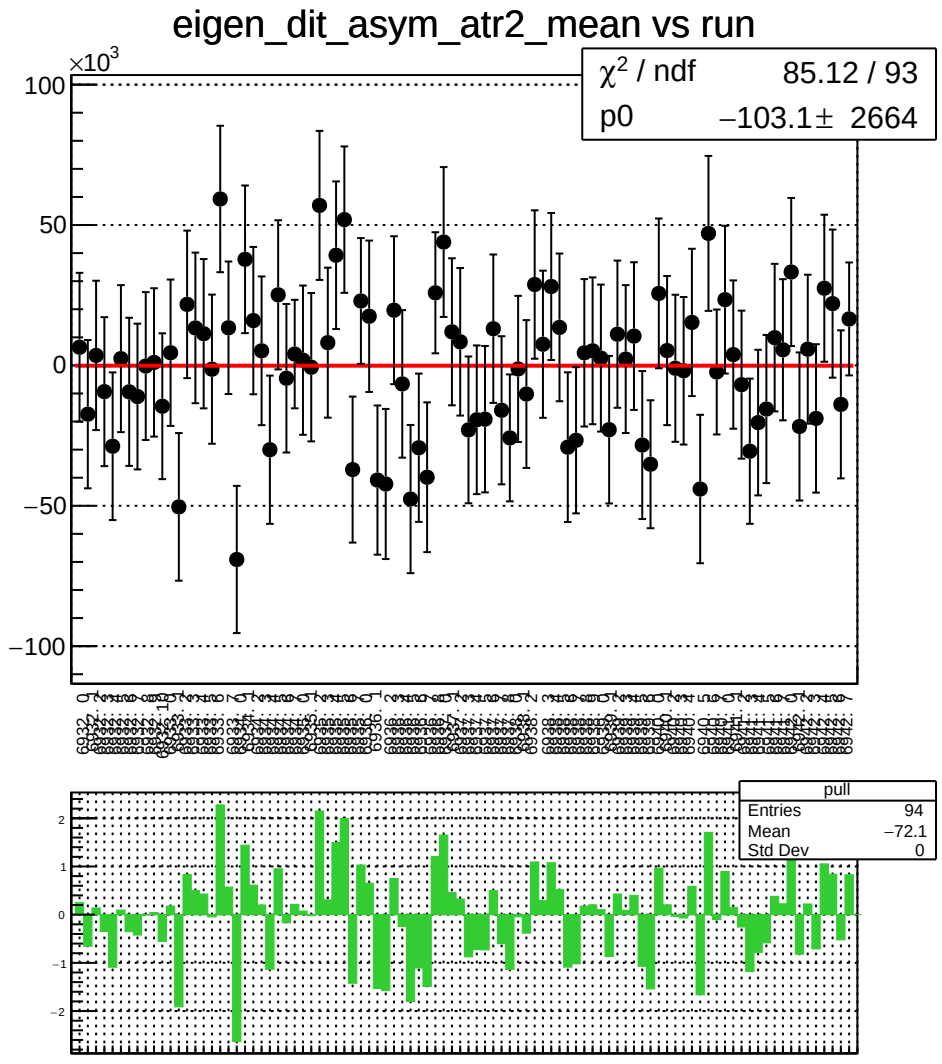

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 85.12 / 93
p0 −103.1± 2664
100
50
0
−50
−100
pull
Entries 94
Mean −72.1
Std Dev 0
2
1
0
−1
−2

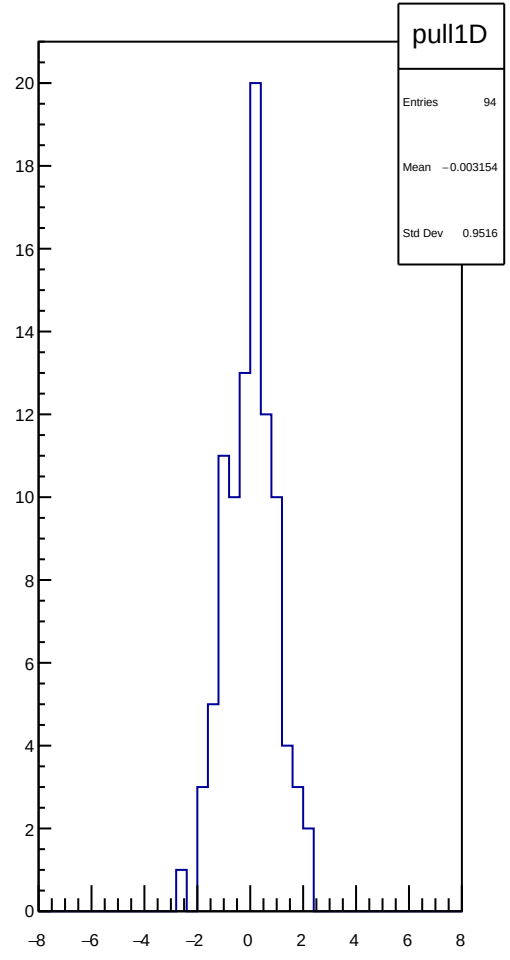

pull1D
Entries 94
Mean −0.003154
Std Dev 0.9516
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

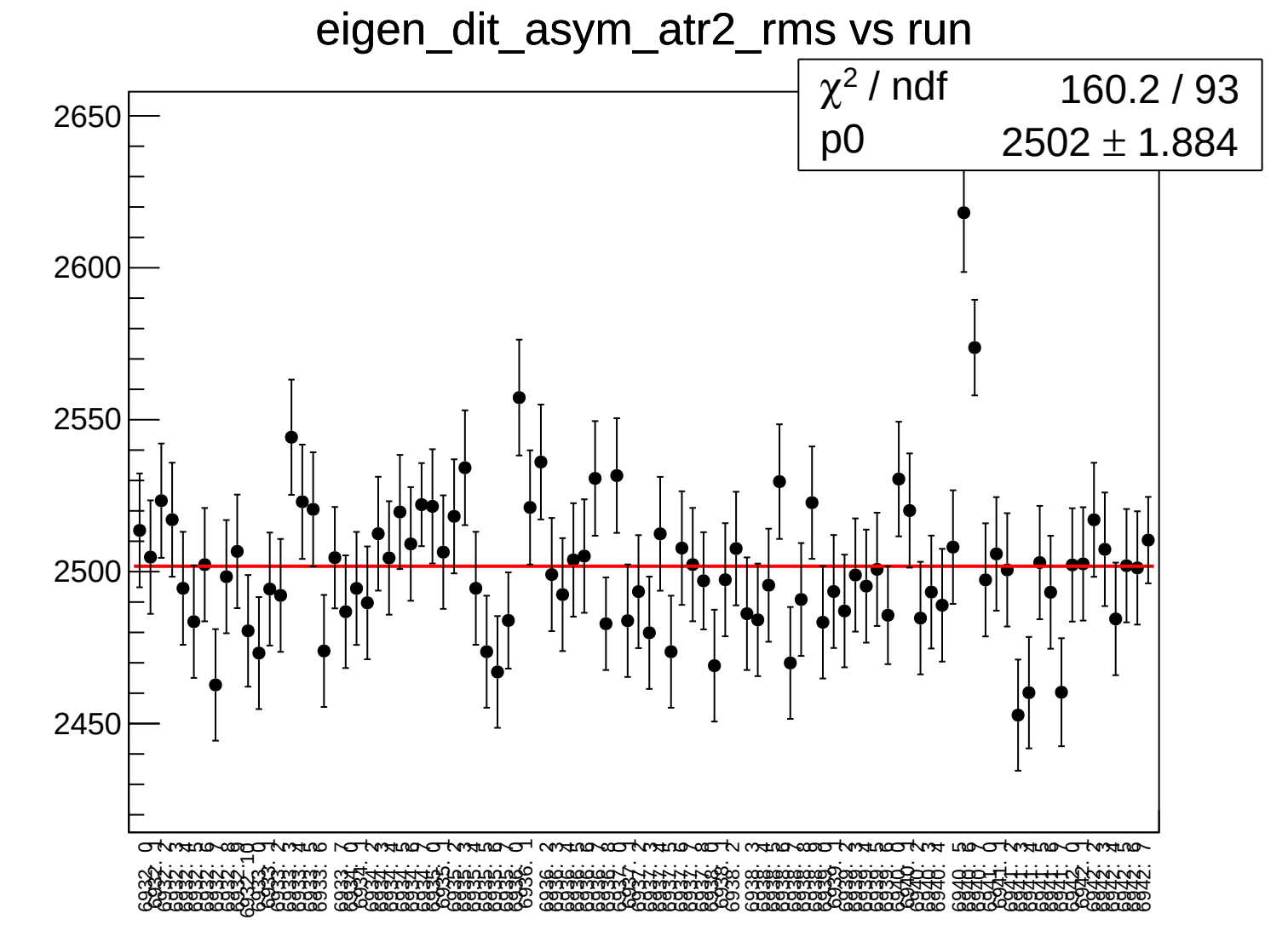

dit_asym_atr2_rms vs run
χ^2 / ndf 160.2 / 93
p0 2502 ± 1.884
2650
2600
2550
2500
2450

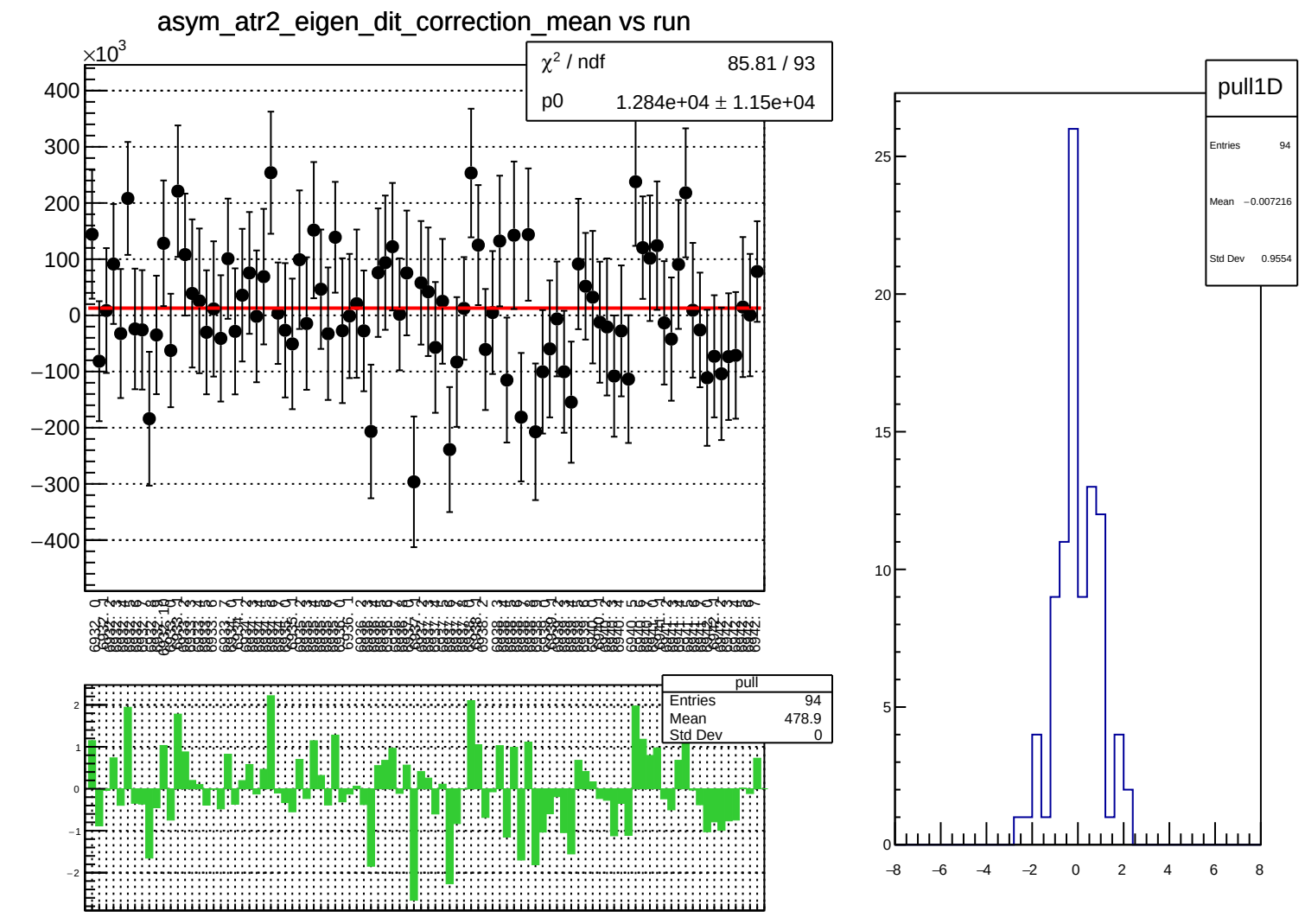

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 85.81 / 93
p0 1.284e+04 ± 1.15e+04
pull
Entries 94
Mean 478.9
Std Dev 0
pull1D
Entries 94
Mean −0.007216
Std Dev 0.9554

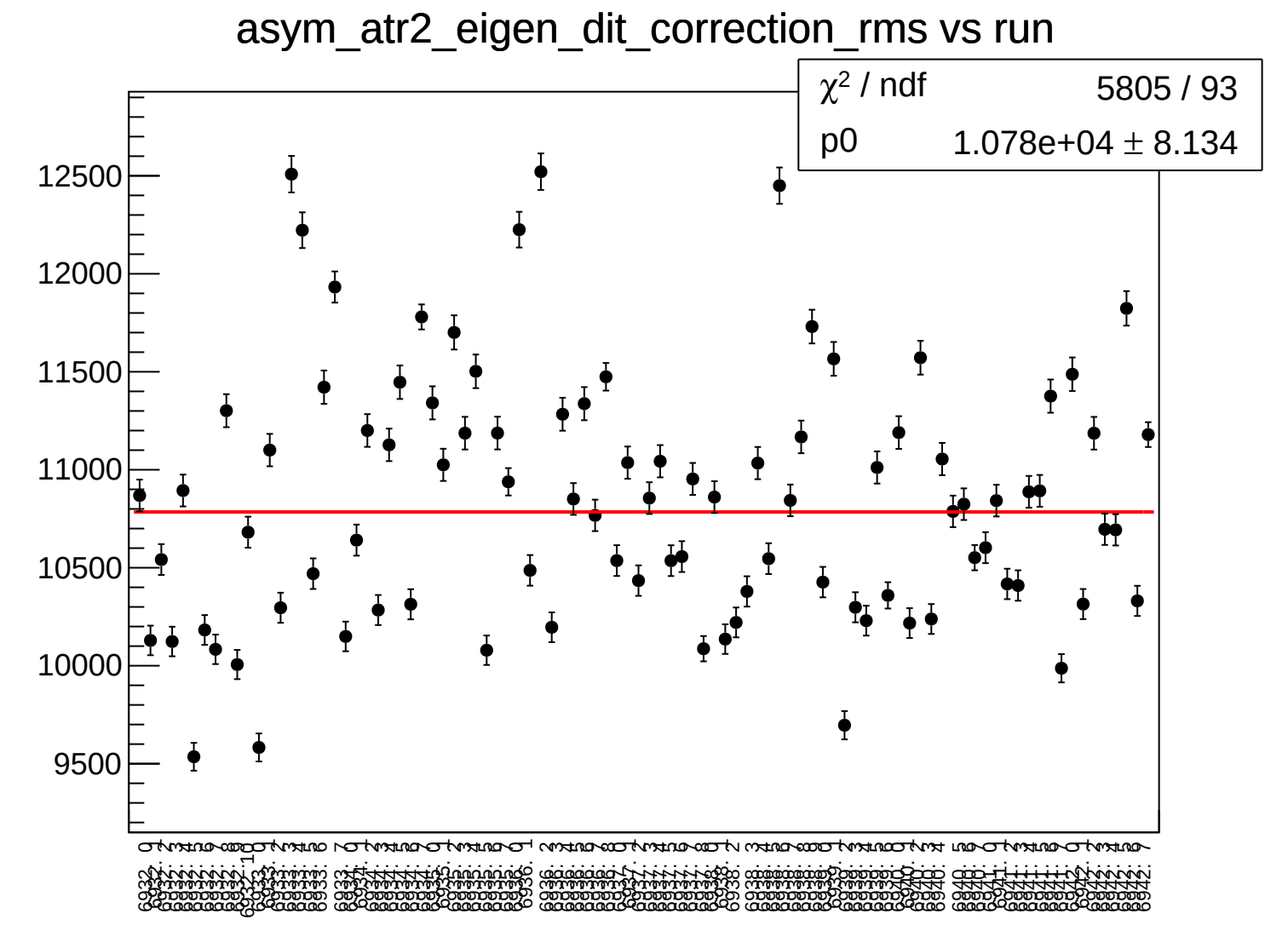

asym_atr2_dit_correction_rms vs run
χ² / ndf 5805 / 93
p0 1.078e+04 ± 8.134
12500
12000
11500
11000
10500
10000
9500

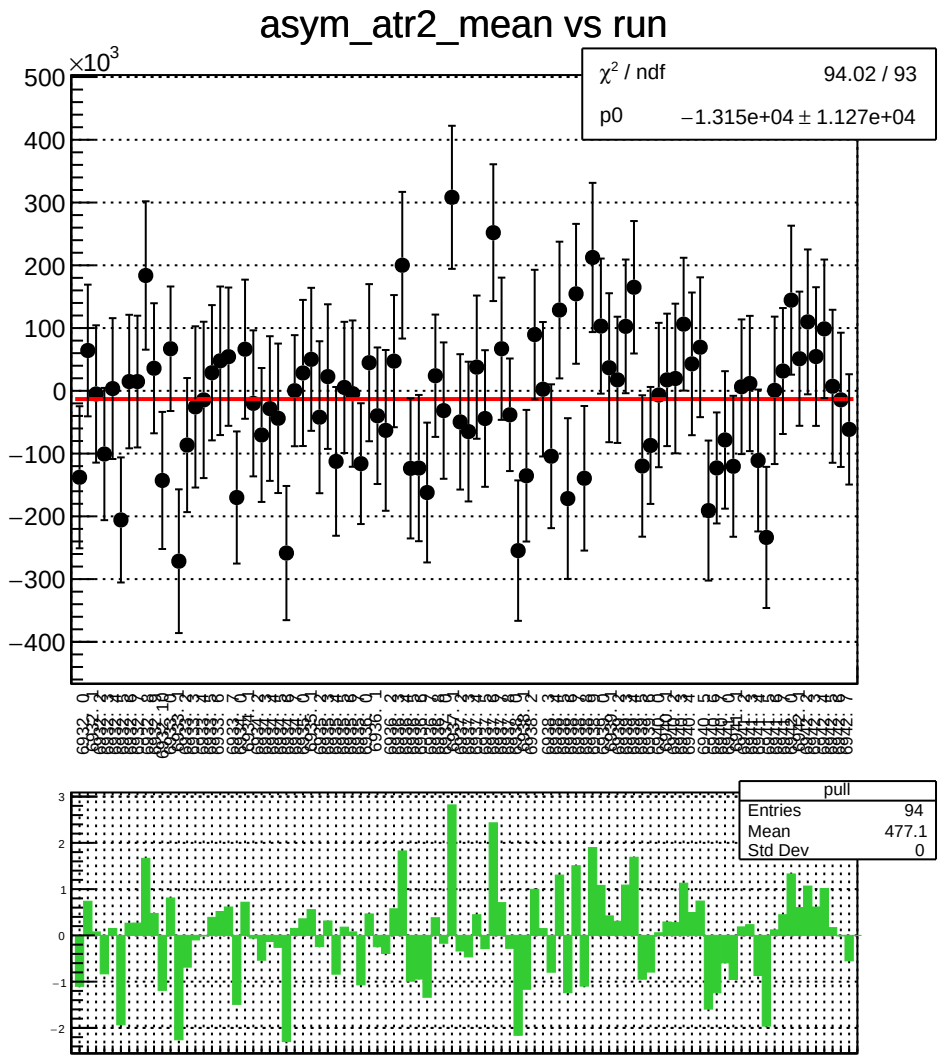

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 85.12 / 93
p0 −103.1± 2664
pull
Entries 94
Mean −72.1
Std Dev 0

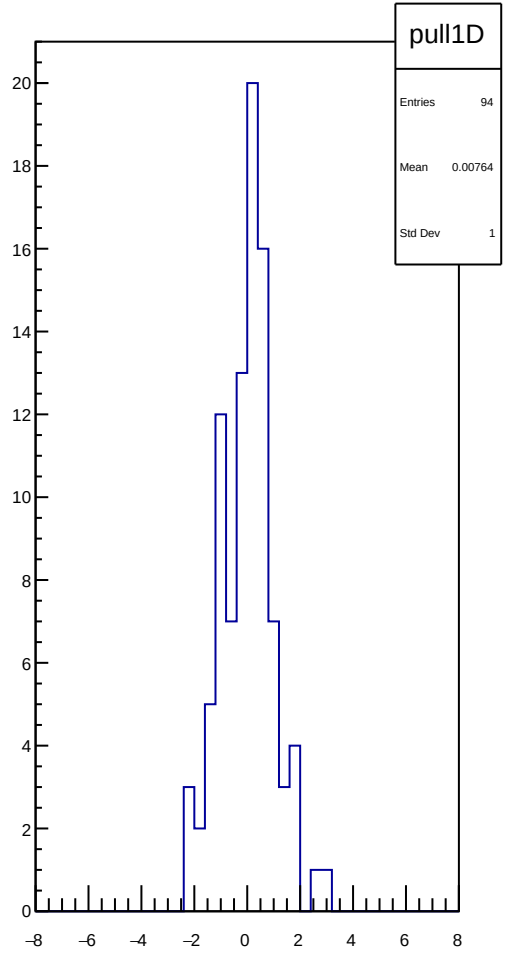

pull1D
Entries 94
Mean −0.003154
Std Dev 0.9516

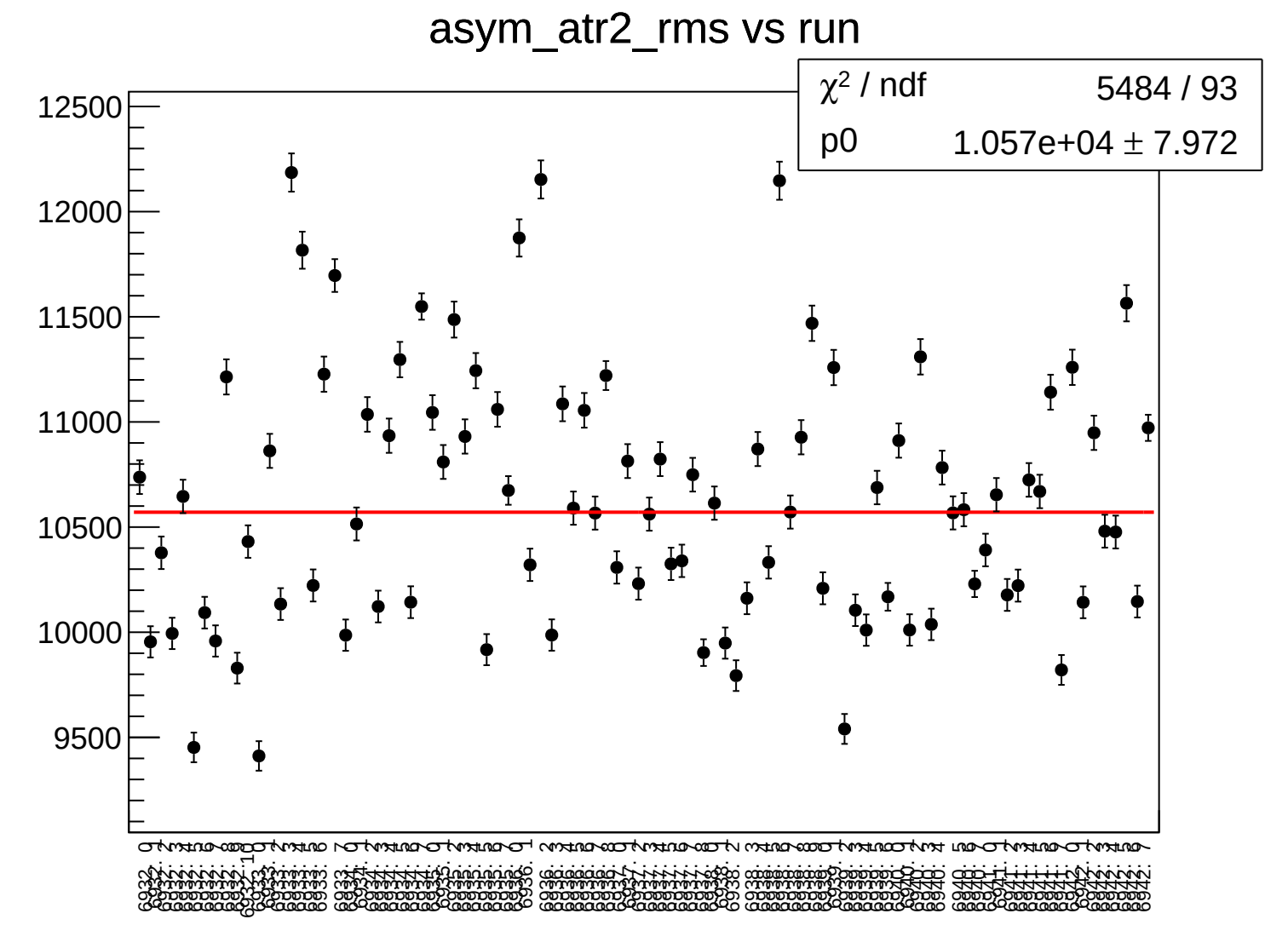

eigen_dit_asym_atr2_rms vs run
χ² / ndf 160.2 / 93
p0 2502 ± 1.884
2650
2600
2550
2500
2450

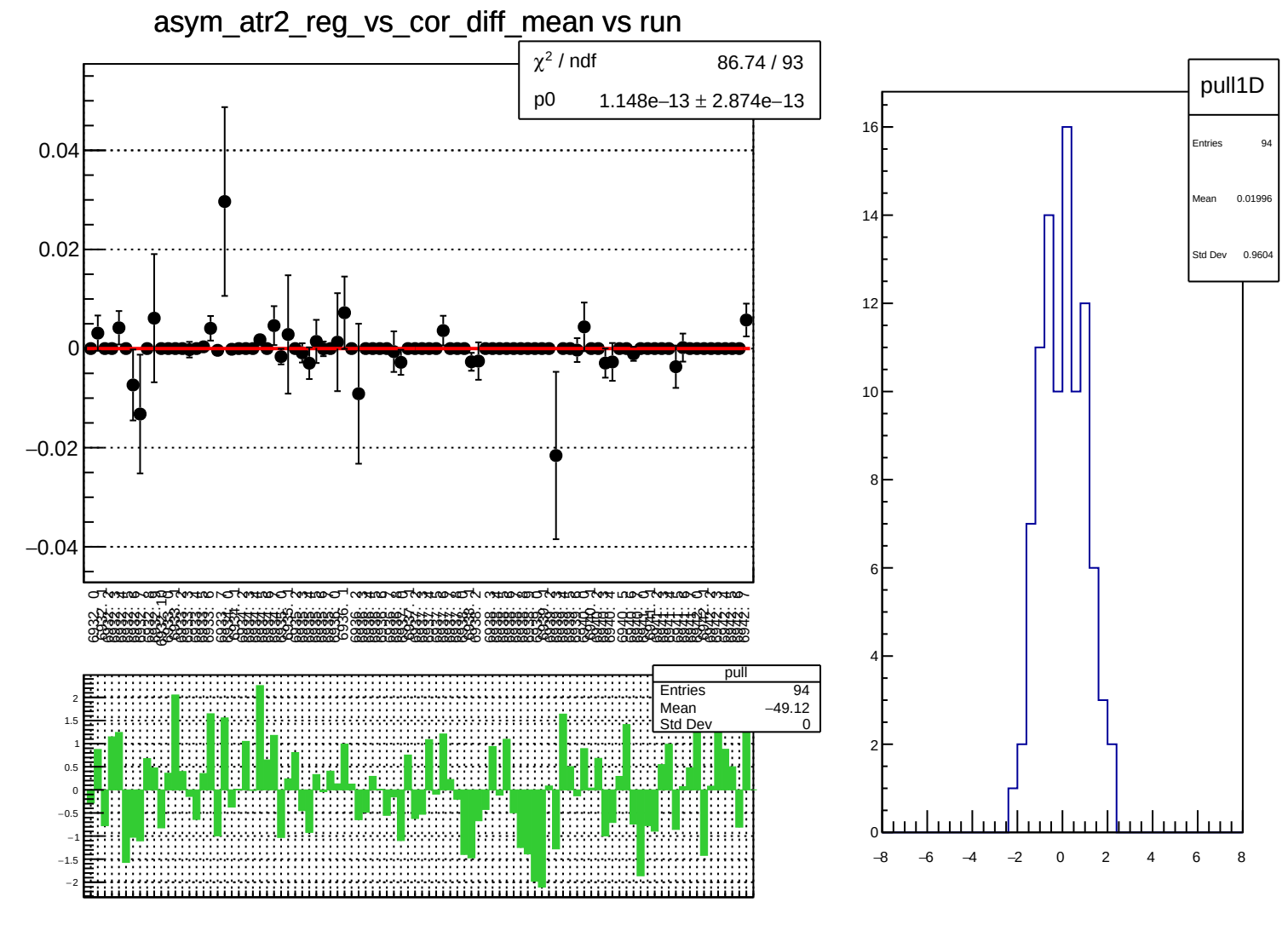

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.81 / 93
p0 1.284e+04 ± 1.15e+04
pull
Entries 94
Mean 478.9
Std Dev 0
pull1D
Entries 94
Mean −0.007216
Std Dev 0.9554

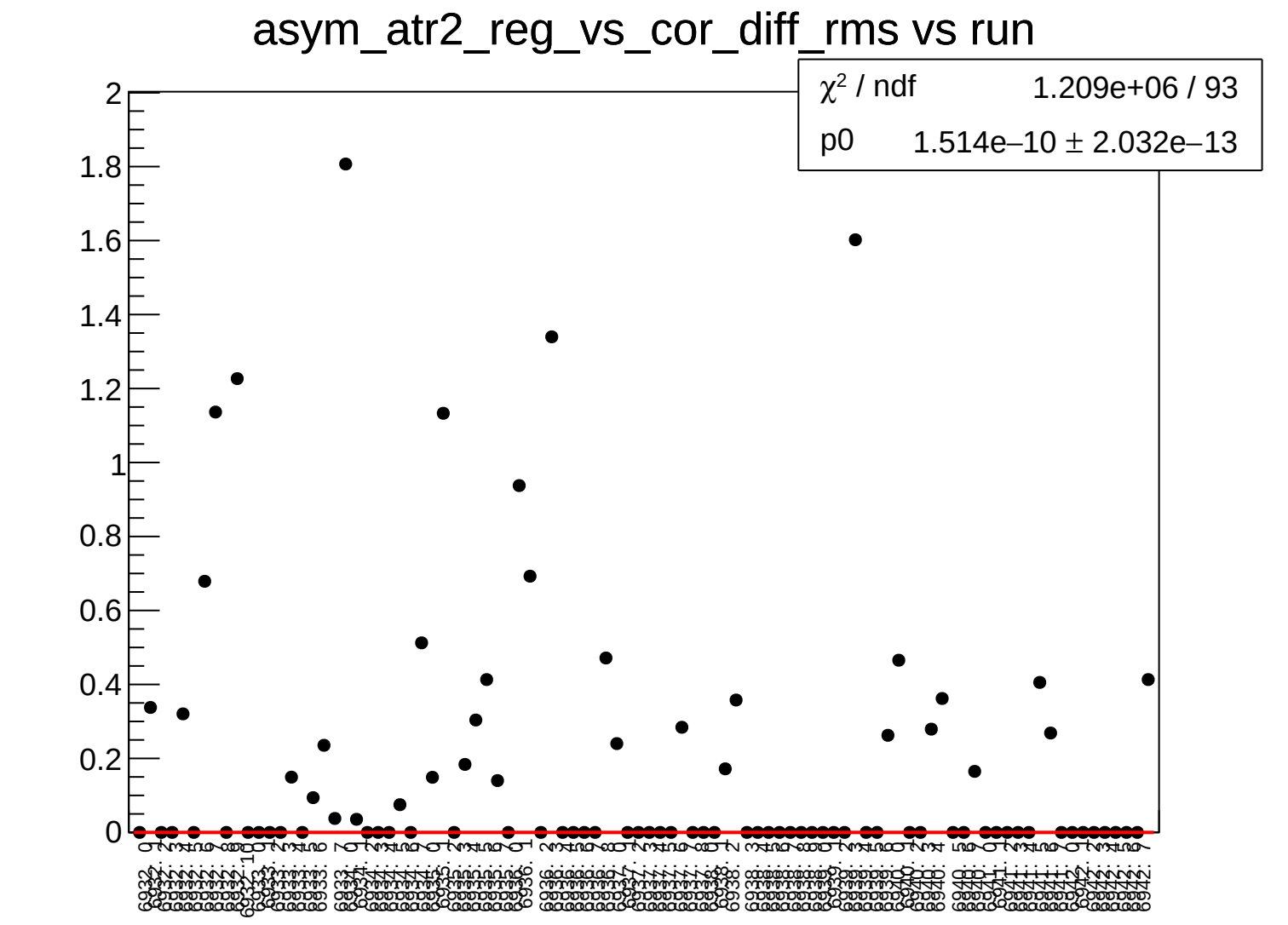

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 5805 / 93
p0 1.078e+04 ± 8.134
12500
12000
11500
11000
10500
10000
9500

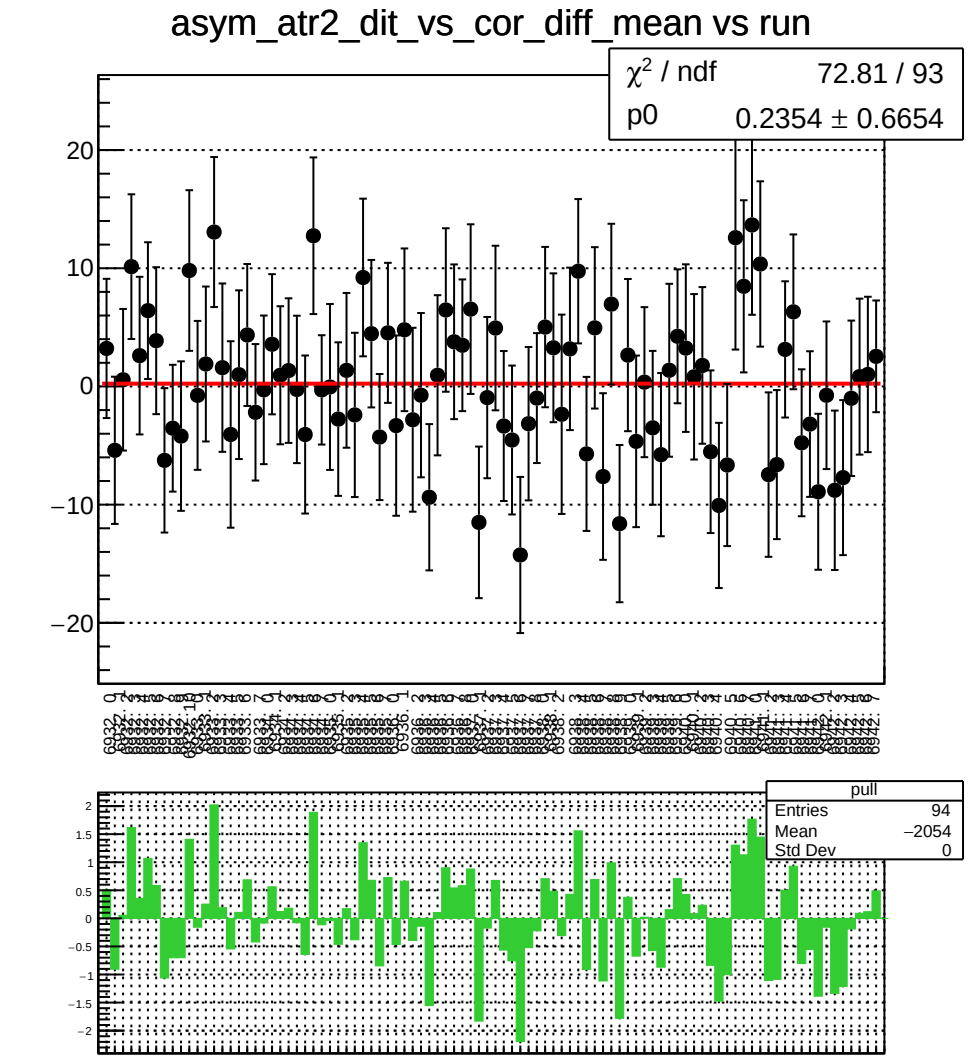

asym_atr2_mean vs run
χ² / ndf 94.02 / 93
p0 −1.315e+04 ± 1.127e+04
×10³
pull
Entries 94
Mean 477.1
Std Dev 0

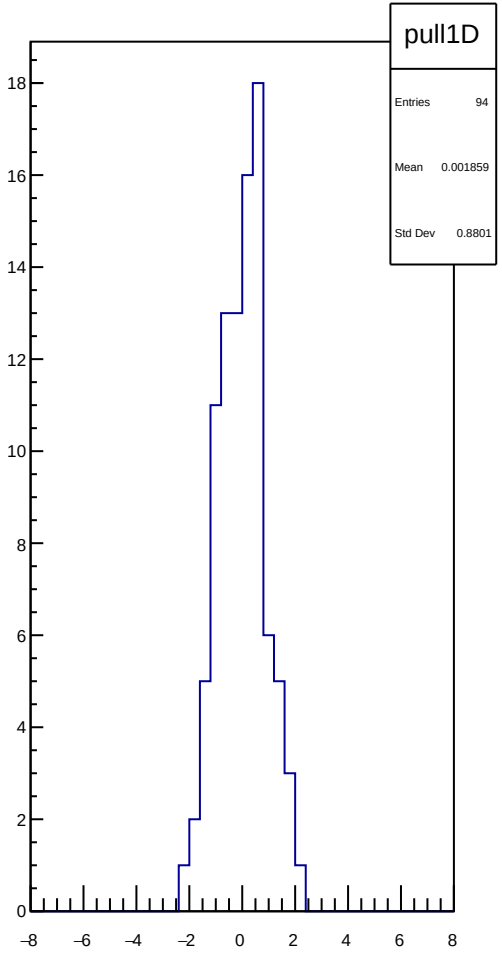

pull1D
Entries 94
Mean 0.00764
Std Dev 1

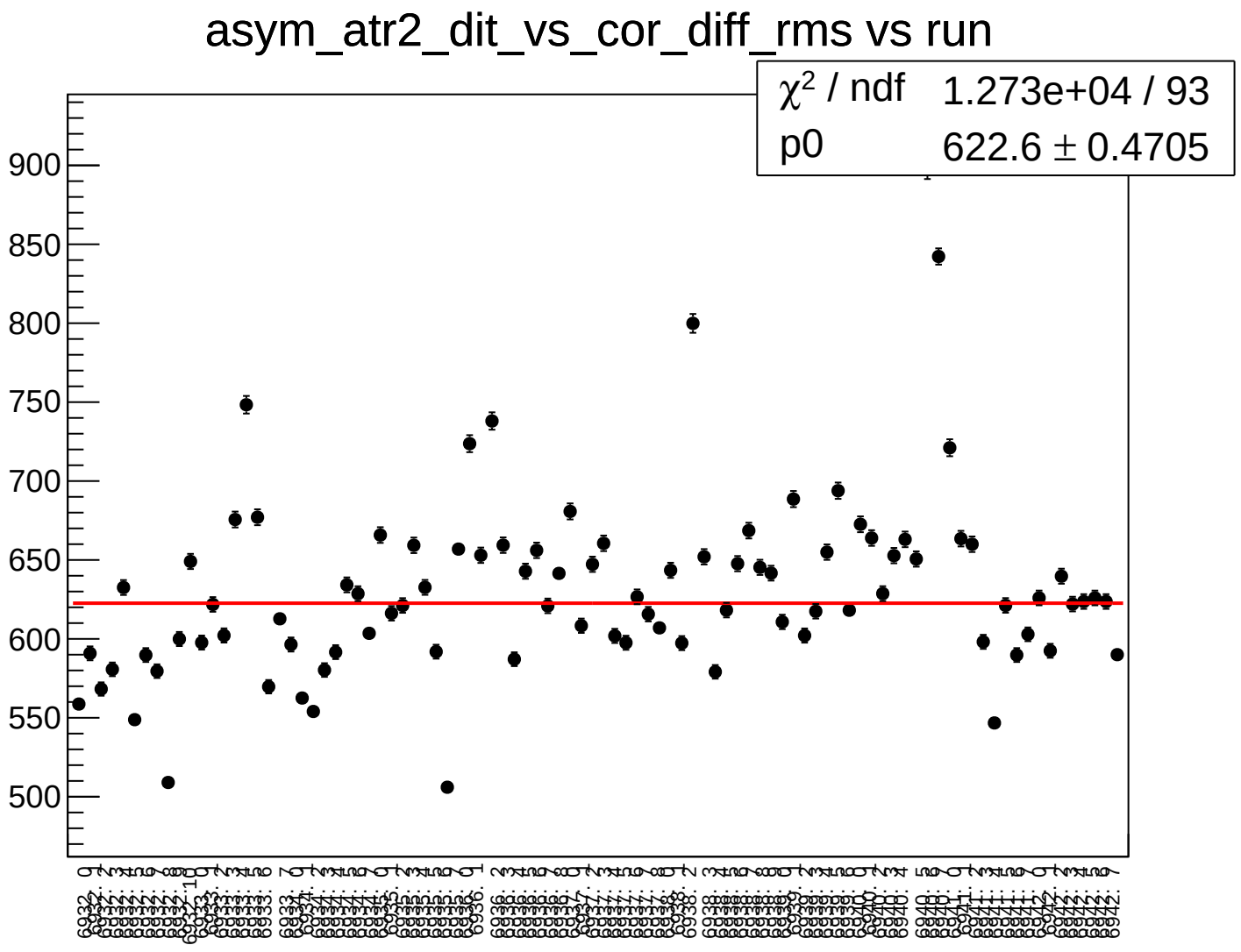

asym_atr2_rms vs run
χ² / ndf 5484 / 93
p0 1.057e+04 ± 7.972
12500
12000
11500
11000
10500
10000
9500

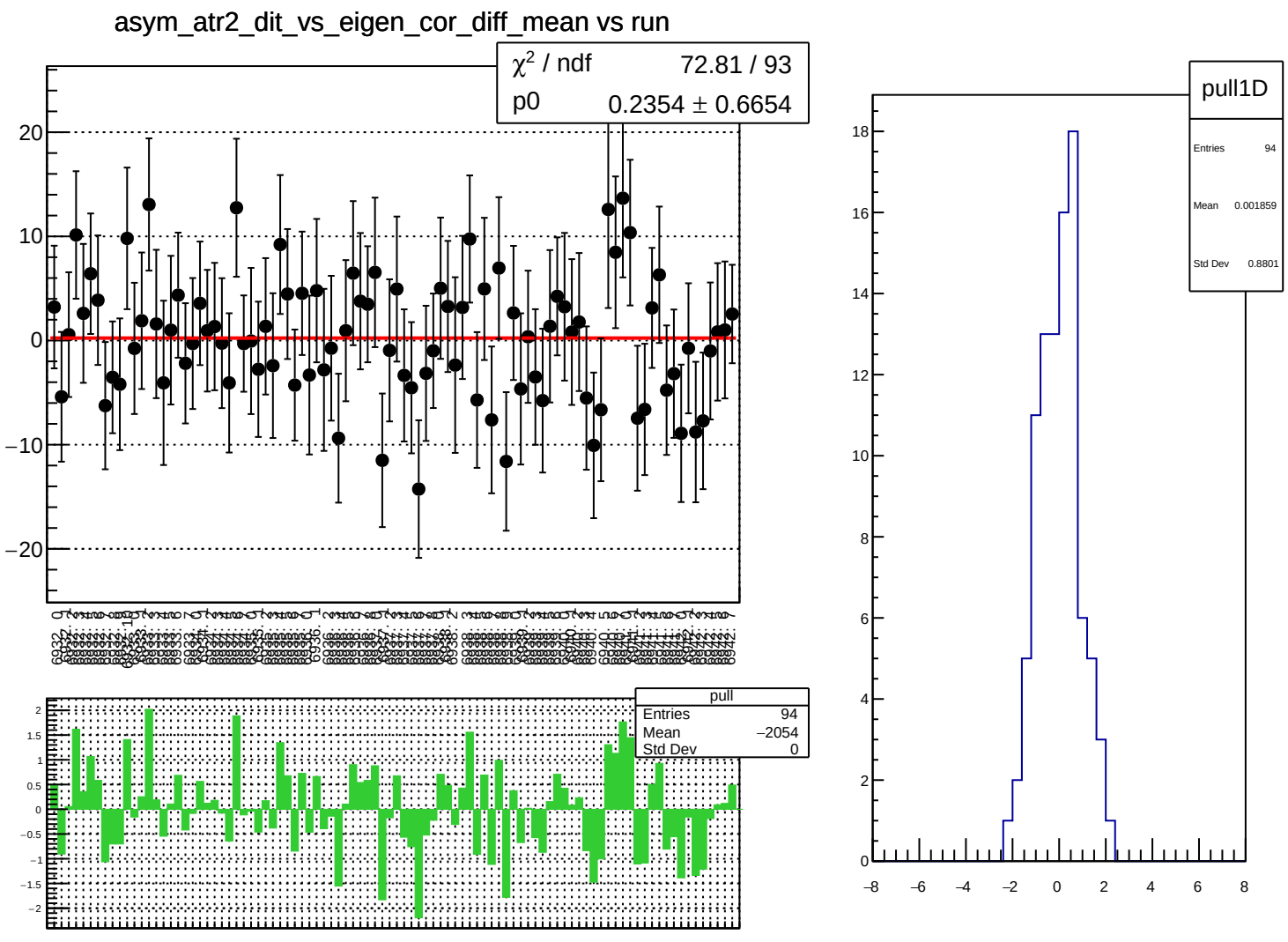

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 86.74 / 93
p0 1.148e−13 ± 2.874e−13
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −49.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01996
Std Dev 0.9604
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

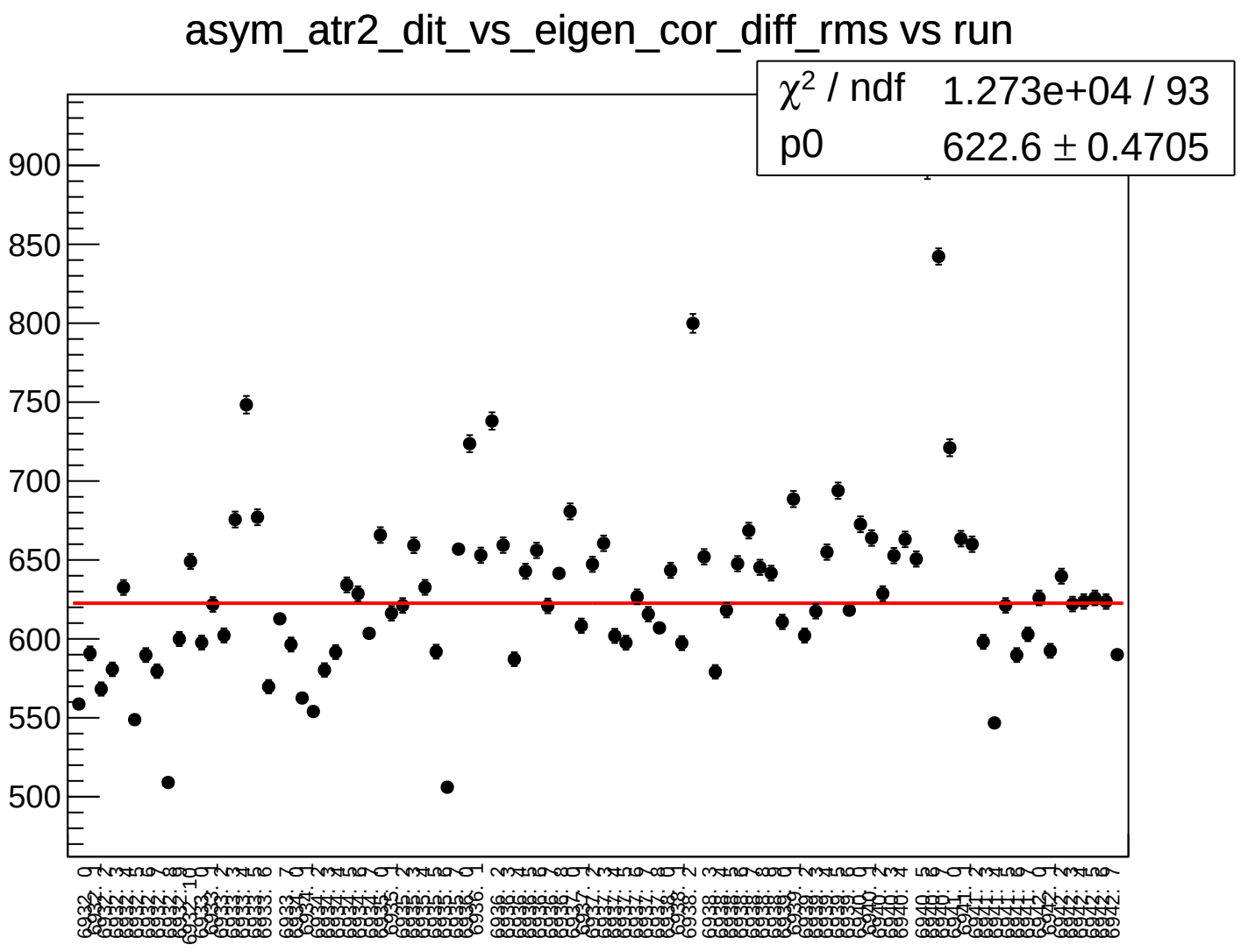

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.209e+06 / 93
p0 1.514e−10 ± 2.032e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

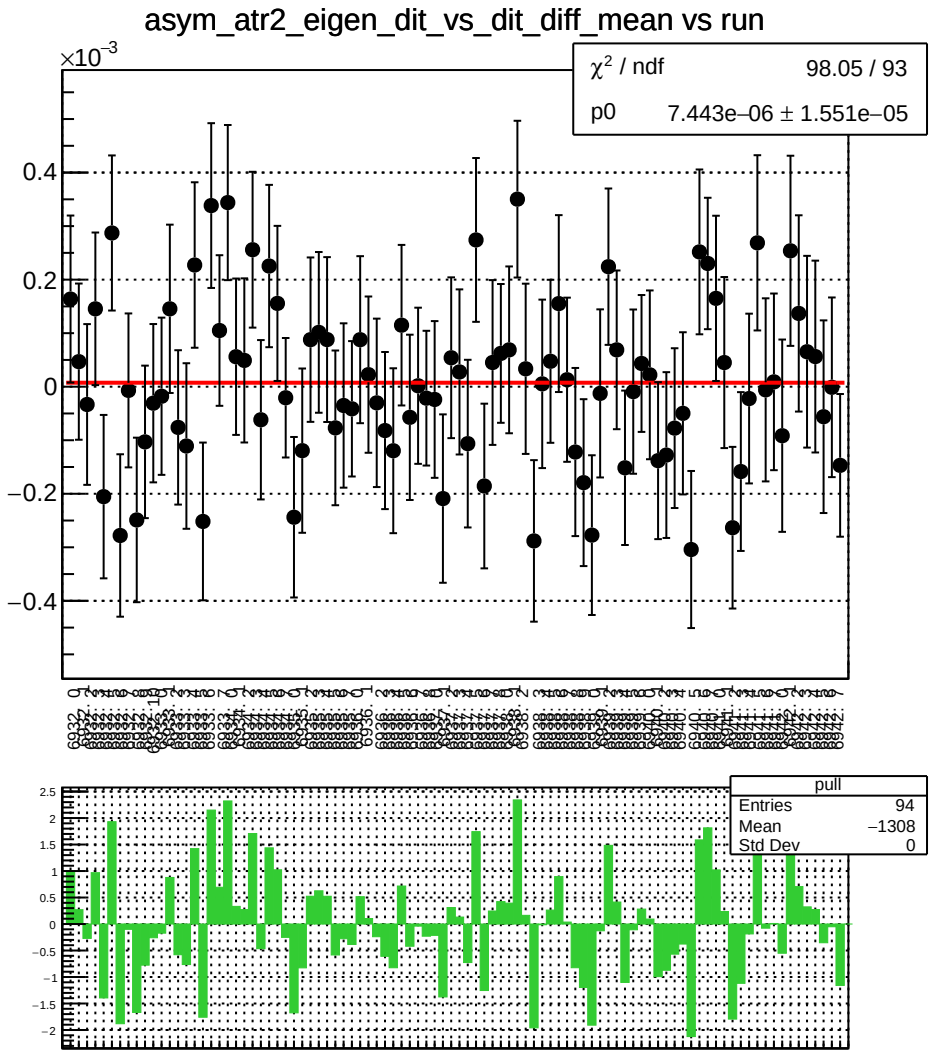

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.2354 ± 0.6654
pull
Entries 94
Mean −2054
Std Dev 0

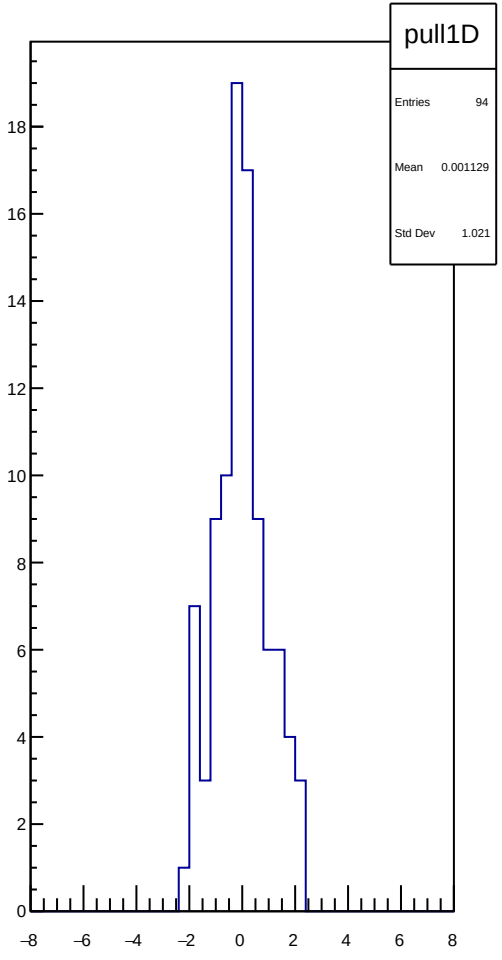

pull1D
Entries 94
Mean 0.001859
Std Dev 0.8801

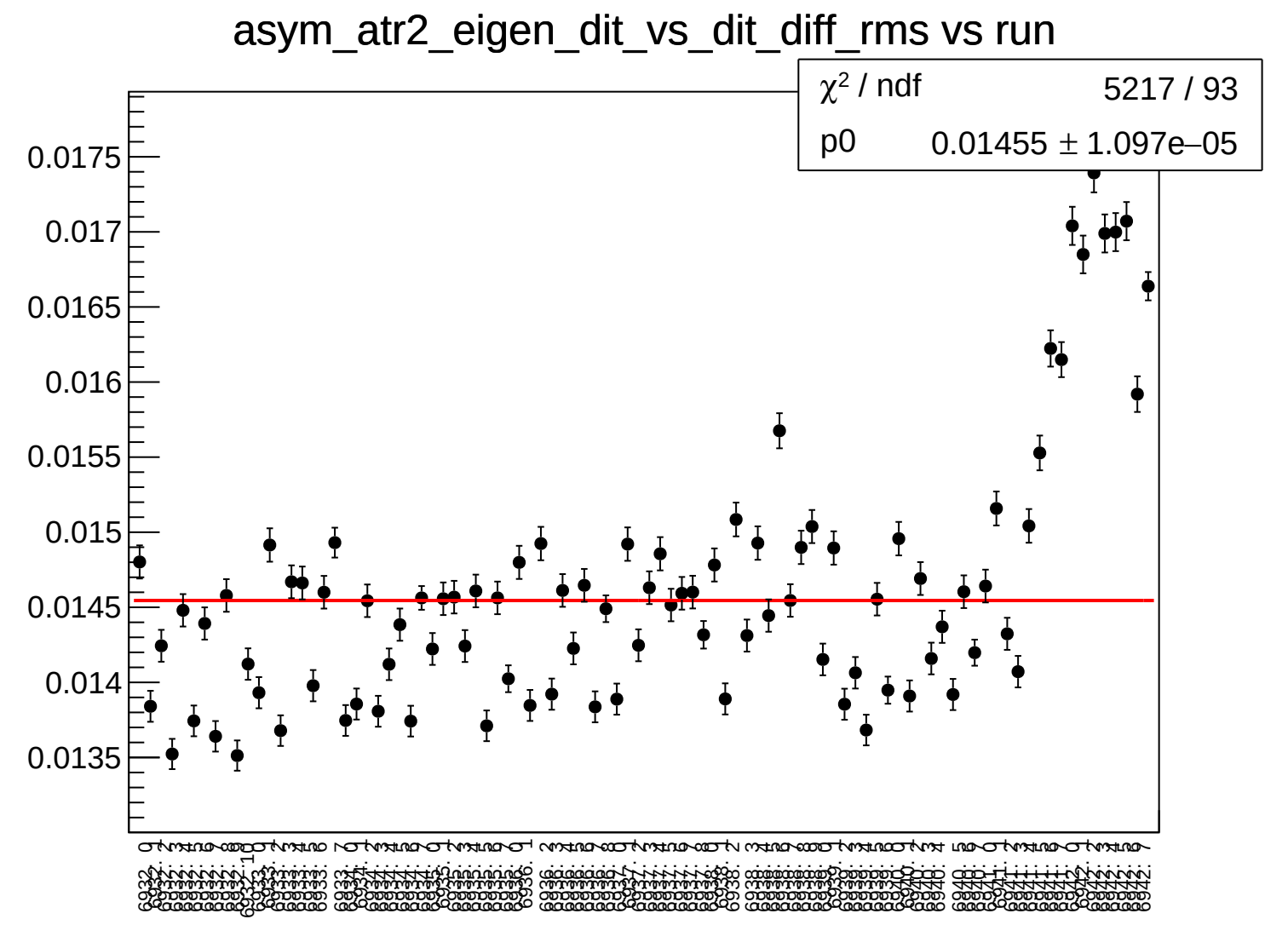

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.273e+04 / 93
p0 622.6 ± 0.4705
900
850
800
750
700
650
600
550
500

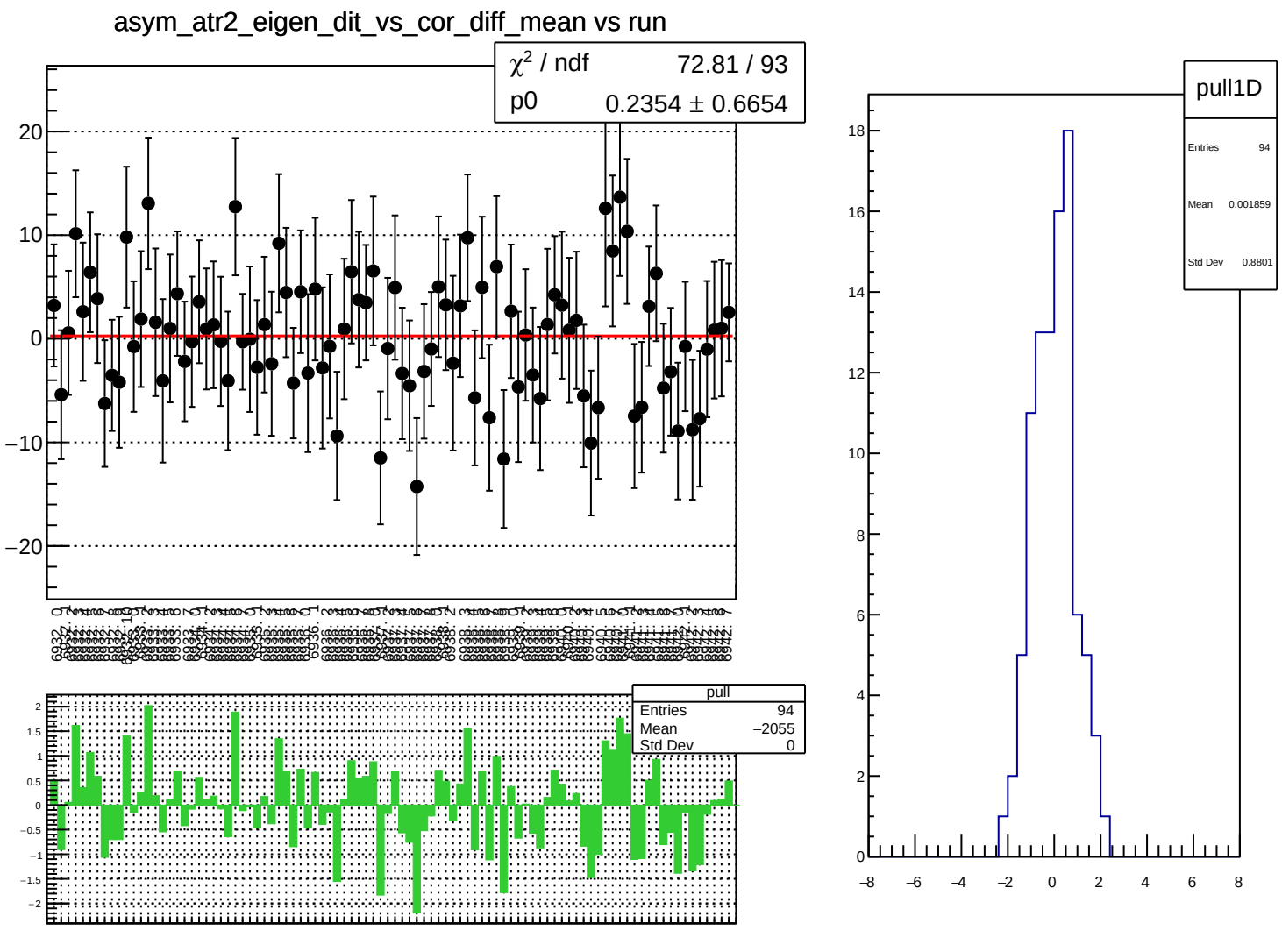

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.2354 ± 0.6654
pull
Entries 94
Mean −2054
Std Dev 0
pull1D
Entries 94
Mean 0.001859
Std Dev 0.8801

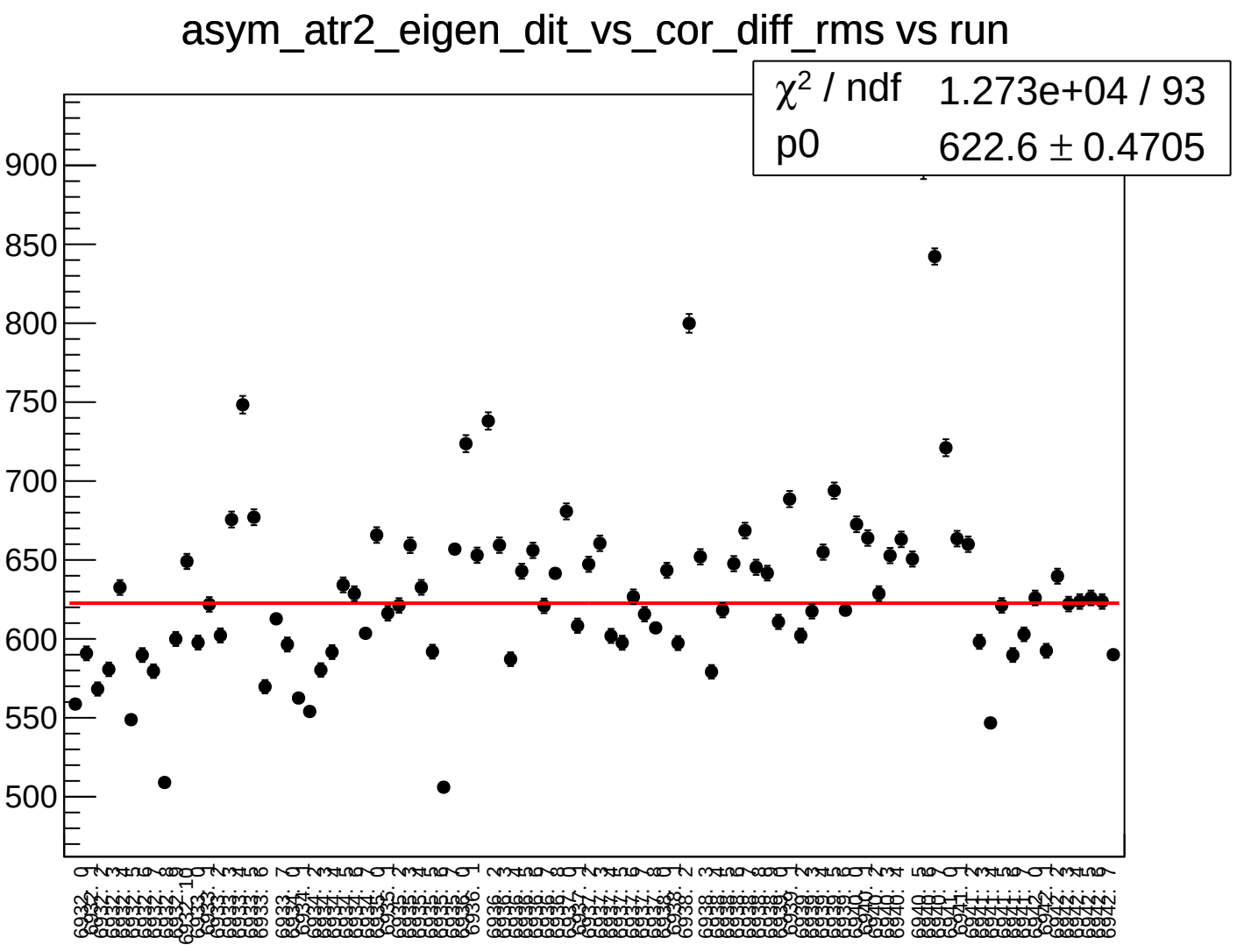

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.273e+04 / 93
p0 622.6 ± 0.4705
900
850
800
750
700
650
600
550
500

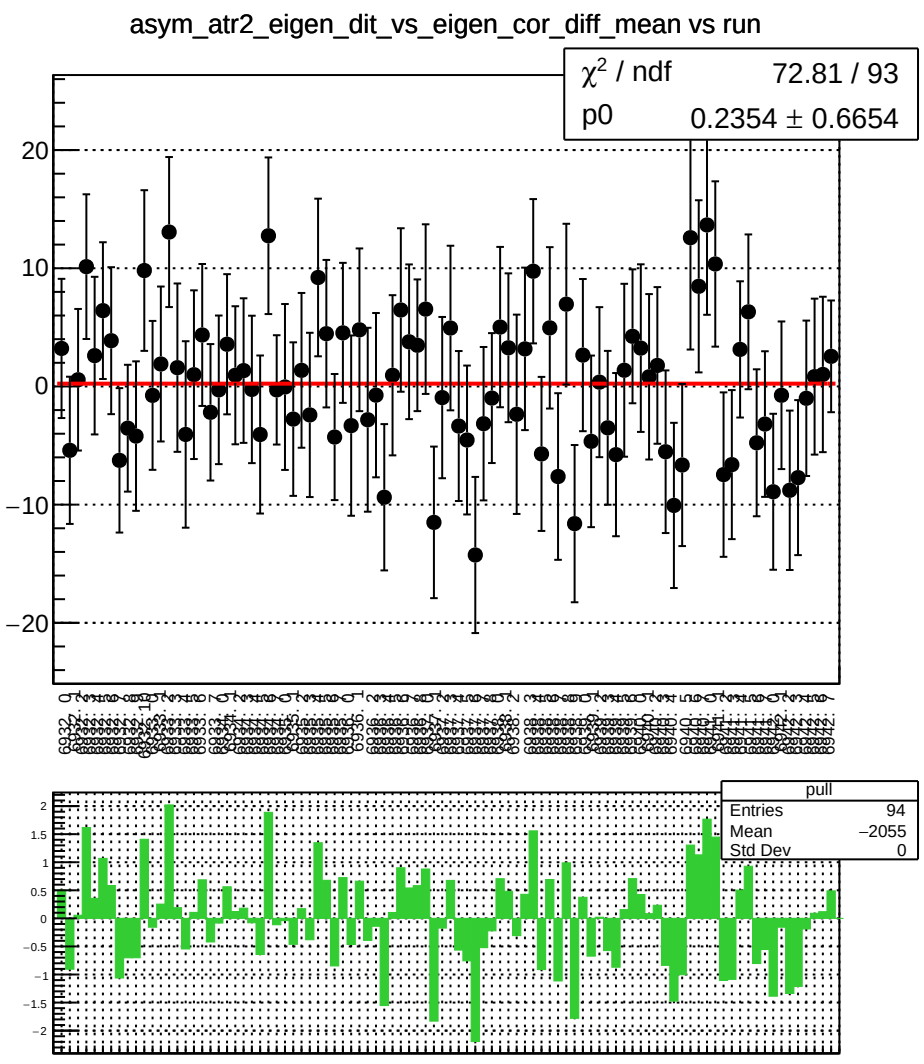

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.05 / 93
p0 7.443e−06 ± 1.551e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean −1308
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

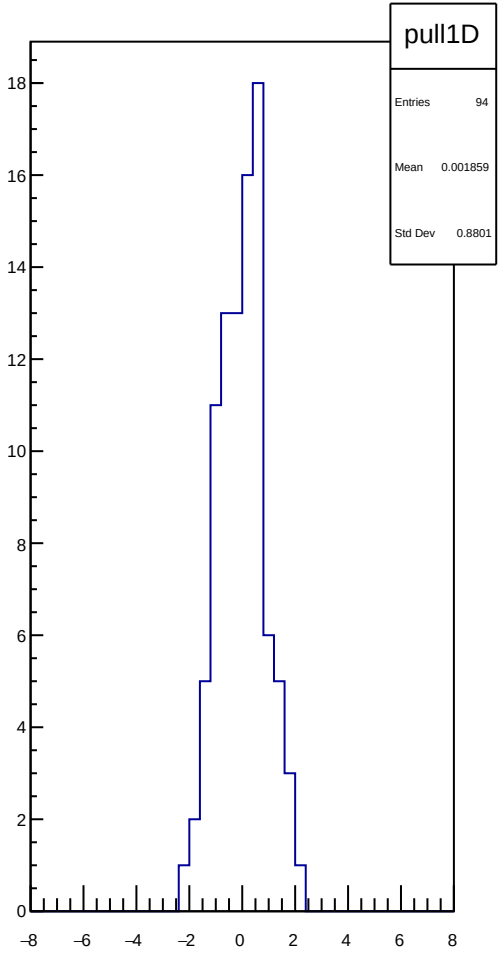

pull1D
Entries 94
Mean 0.001129
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

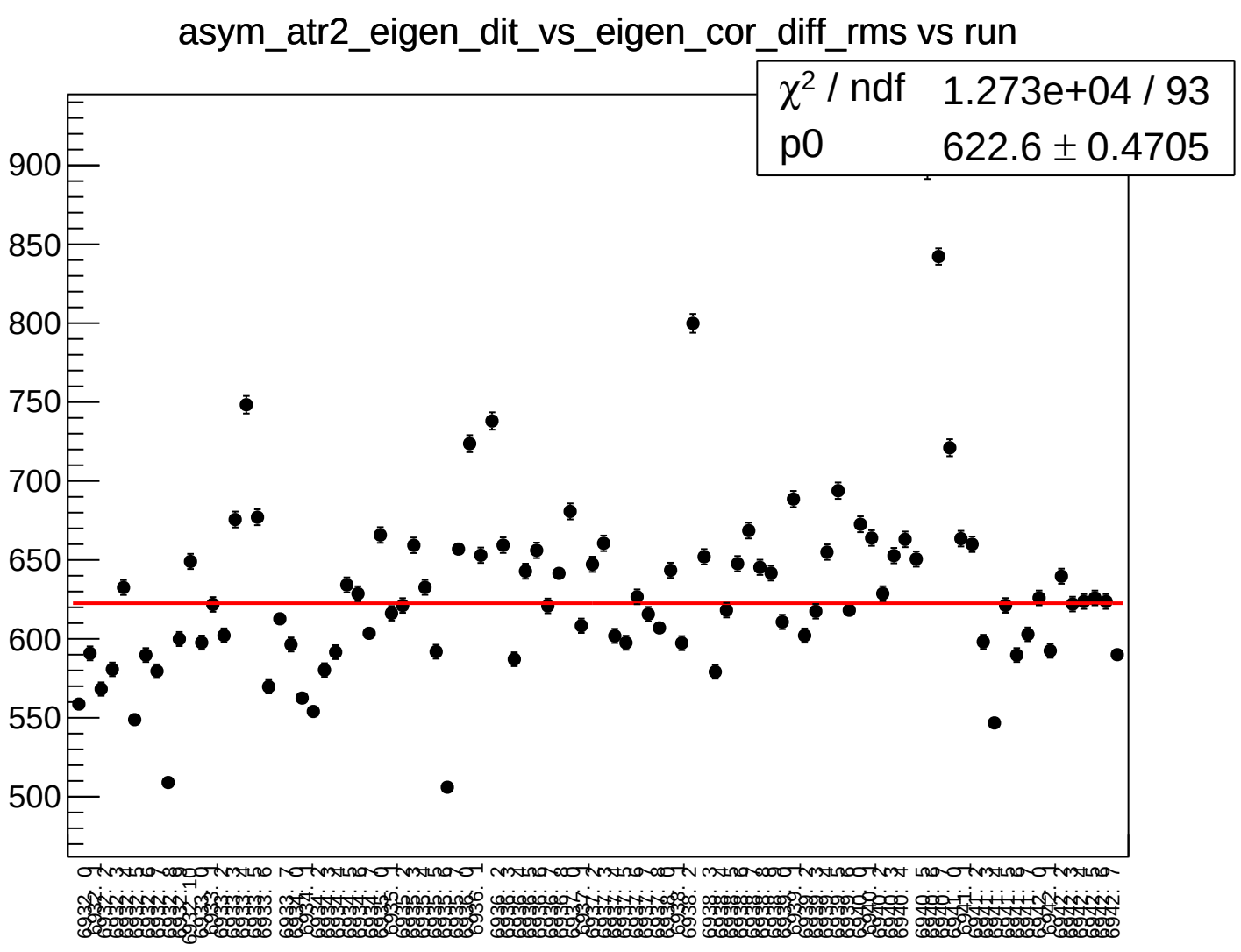

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5217 / 93
p0 0.01455 ± 1.097e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014
0.0135

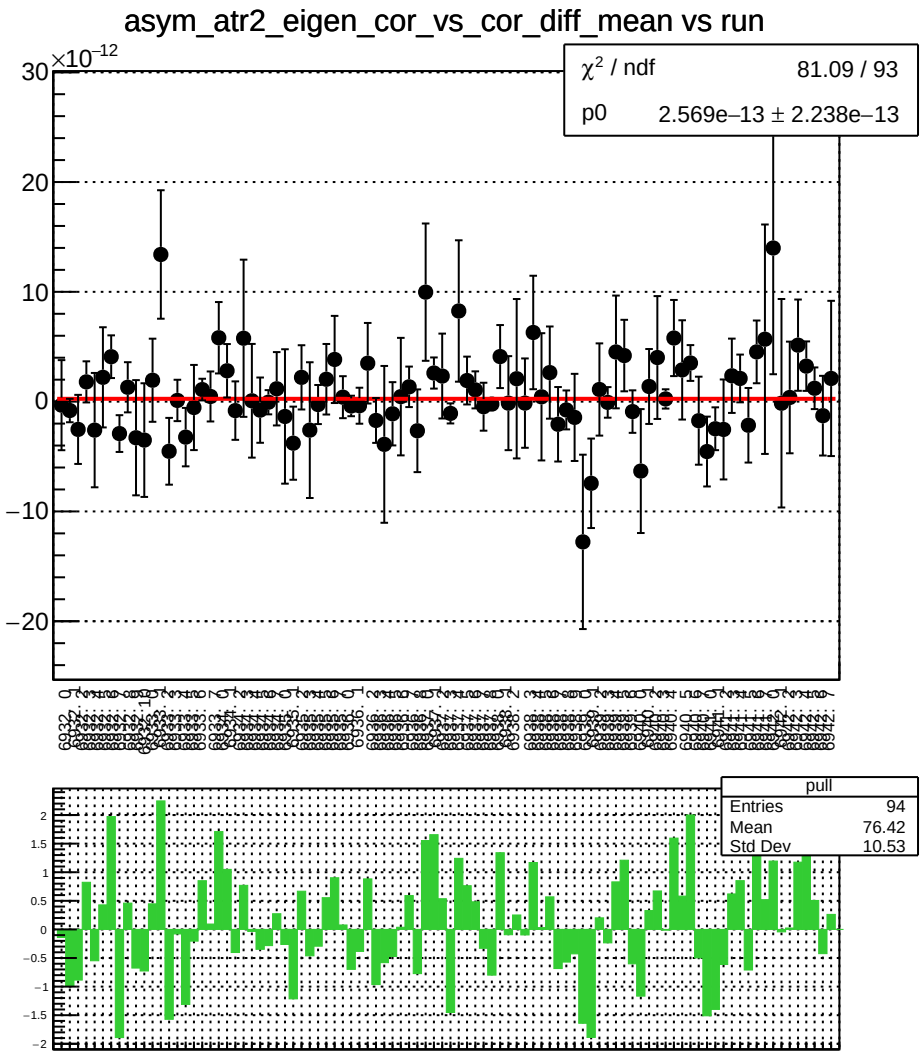

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.2354 ± 0.6654
pull
Entries 94
Mean −2055
Std Dev 0
pull1D
Entries 94
Mean 0.001859
Std Dev 0.8801

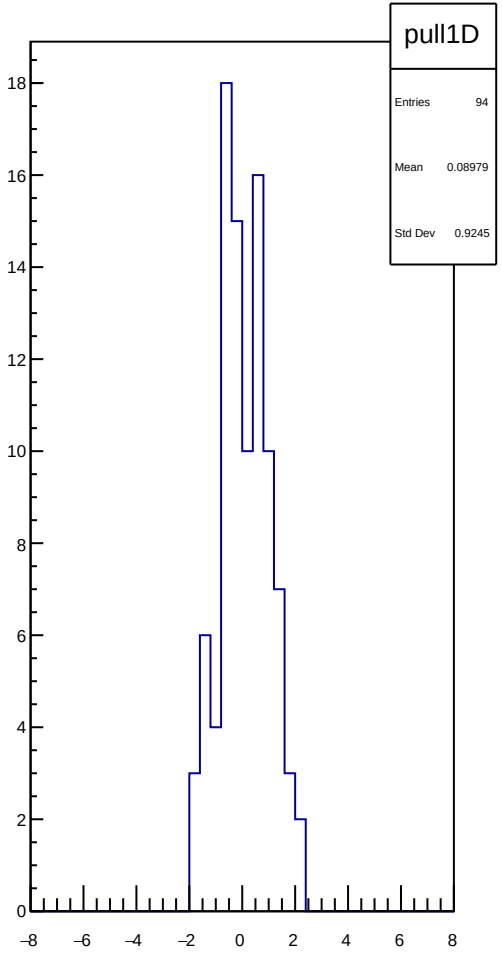

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.273e+04 / 93
p0 622.6 ± 0.4705
900
850
800
750
700
650
600
550
500

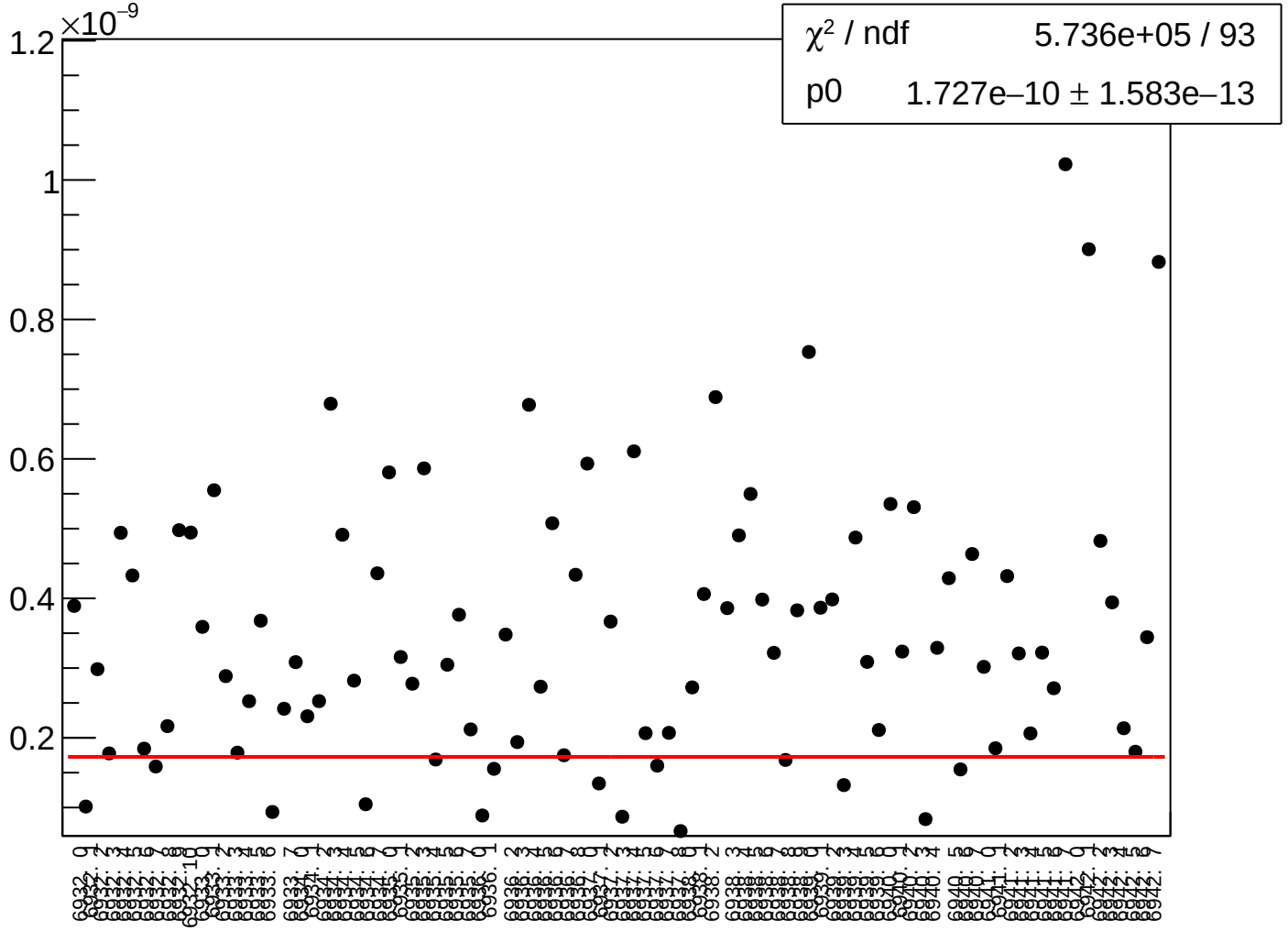

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.2354 ± 0.6654
20
10
0
−10
−20
pull
Entries 94
Mean −2055
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

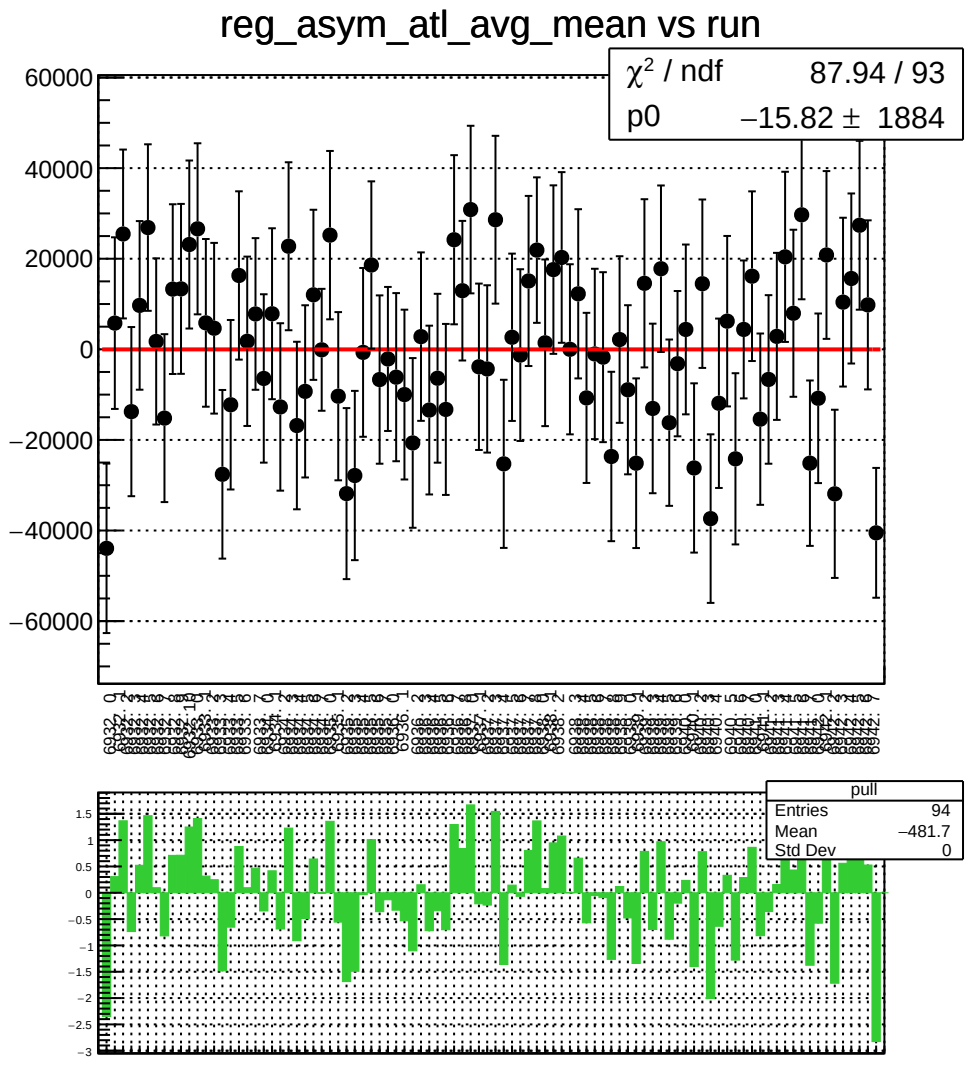

pull1D
Entries 94
Mean 0.001859
Std Dev 0.8801
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

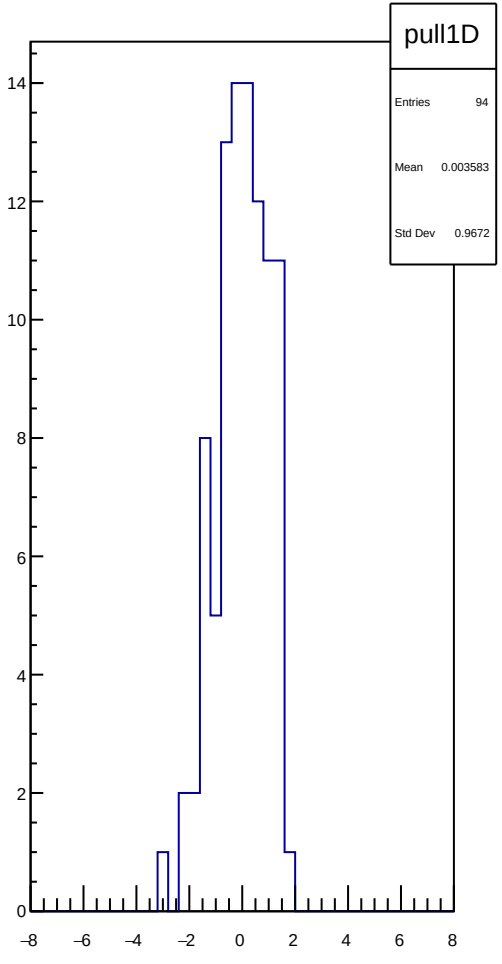

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.273e+04 / 93
p0 622.6 ± 0.4705
900
850
800
750
700
650
600
550
500

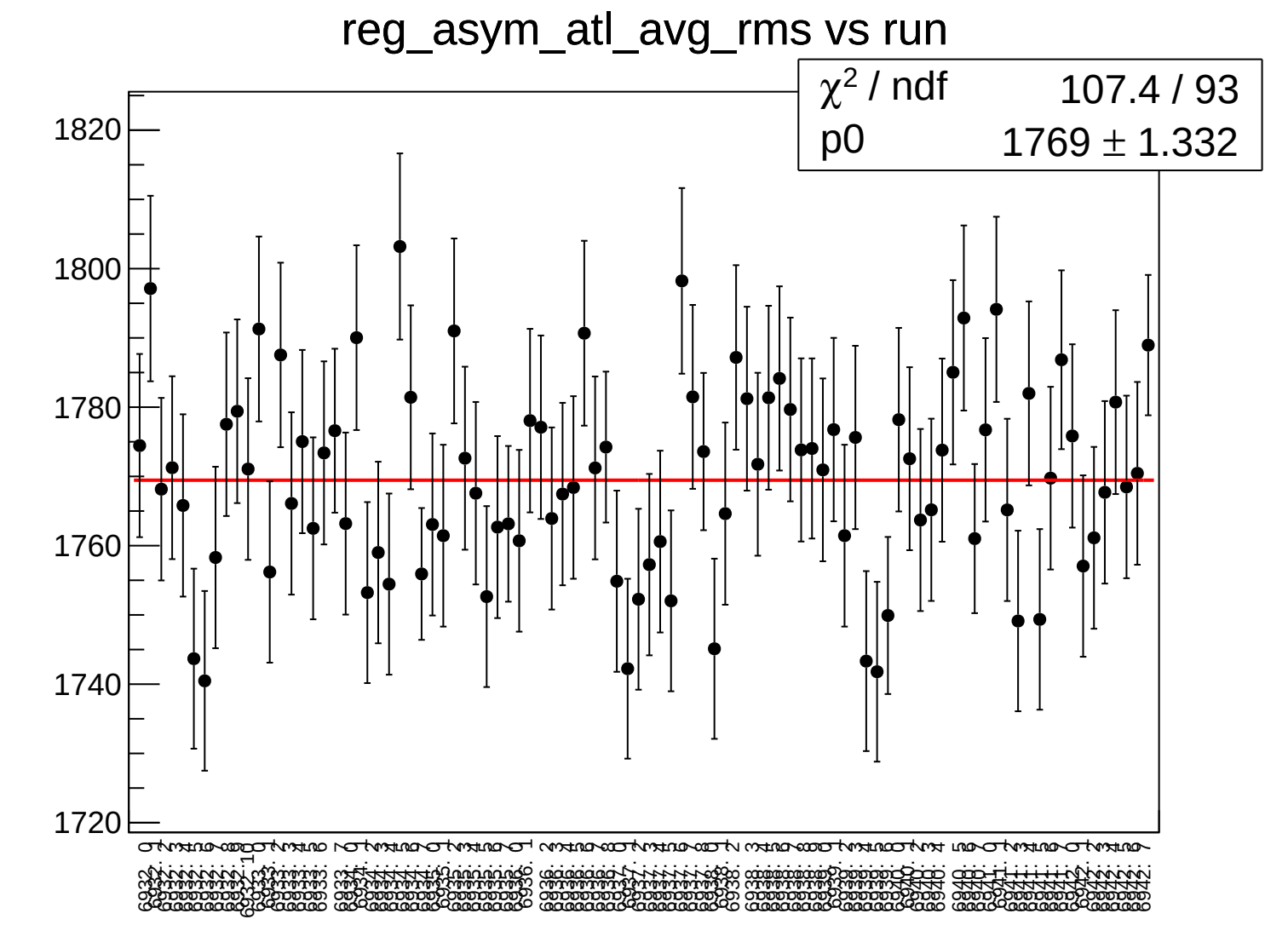

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.09 / 93
p0 2.569e−13 ± 2.238e−13
pull
Entries 94
Mean 76.42
Std Dev 10.53

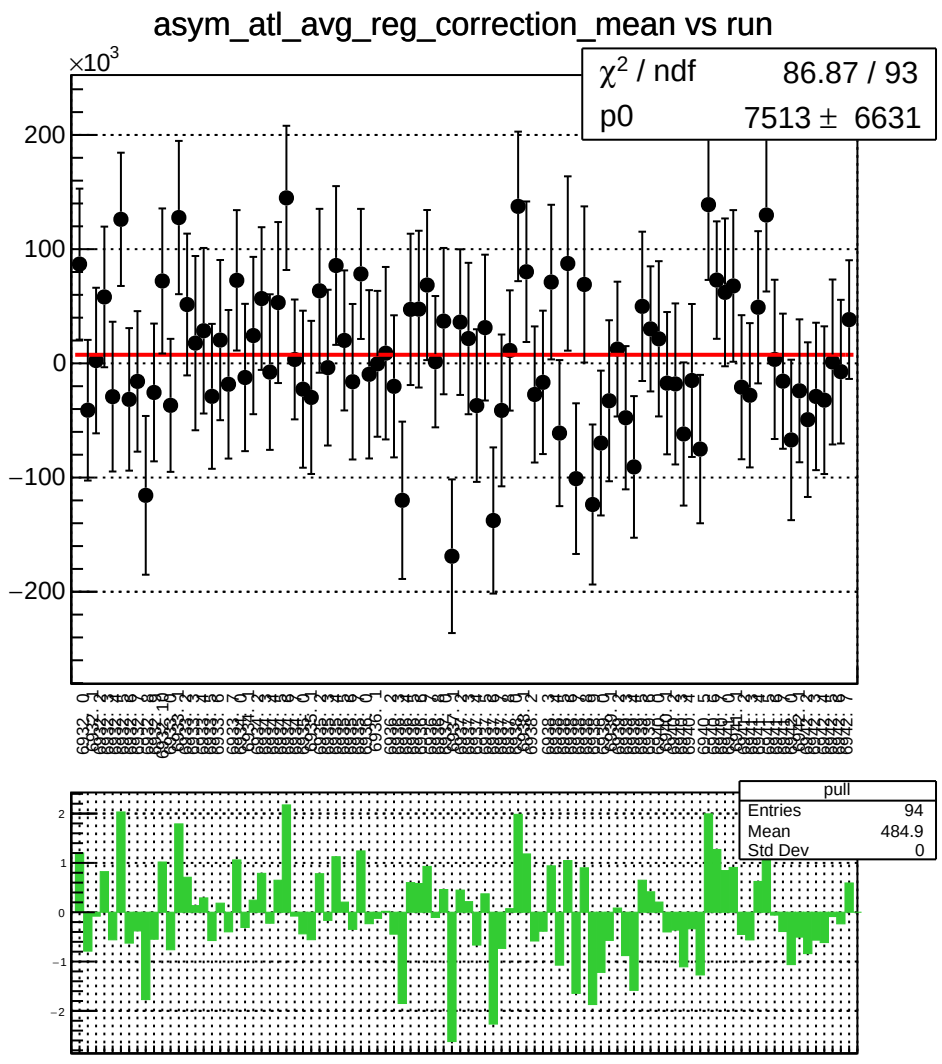

pull1D
Entries 94
Mean 0.08979
Std Dev 0.9245

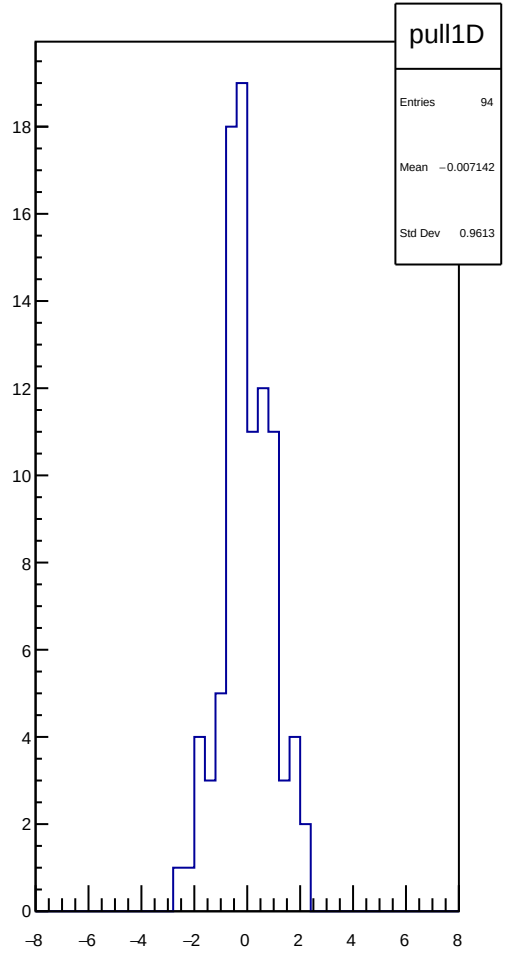

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 5.736e+05 / 93
p0 1.727e−10 ± 1.583e−13

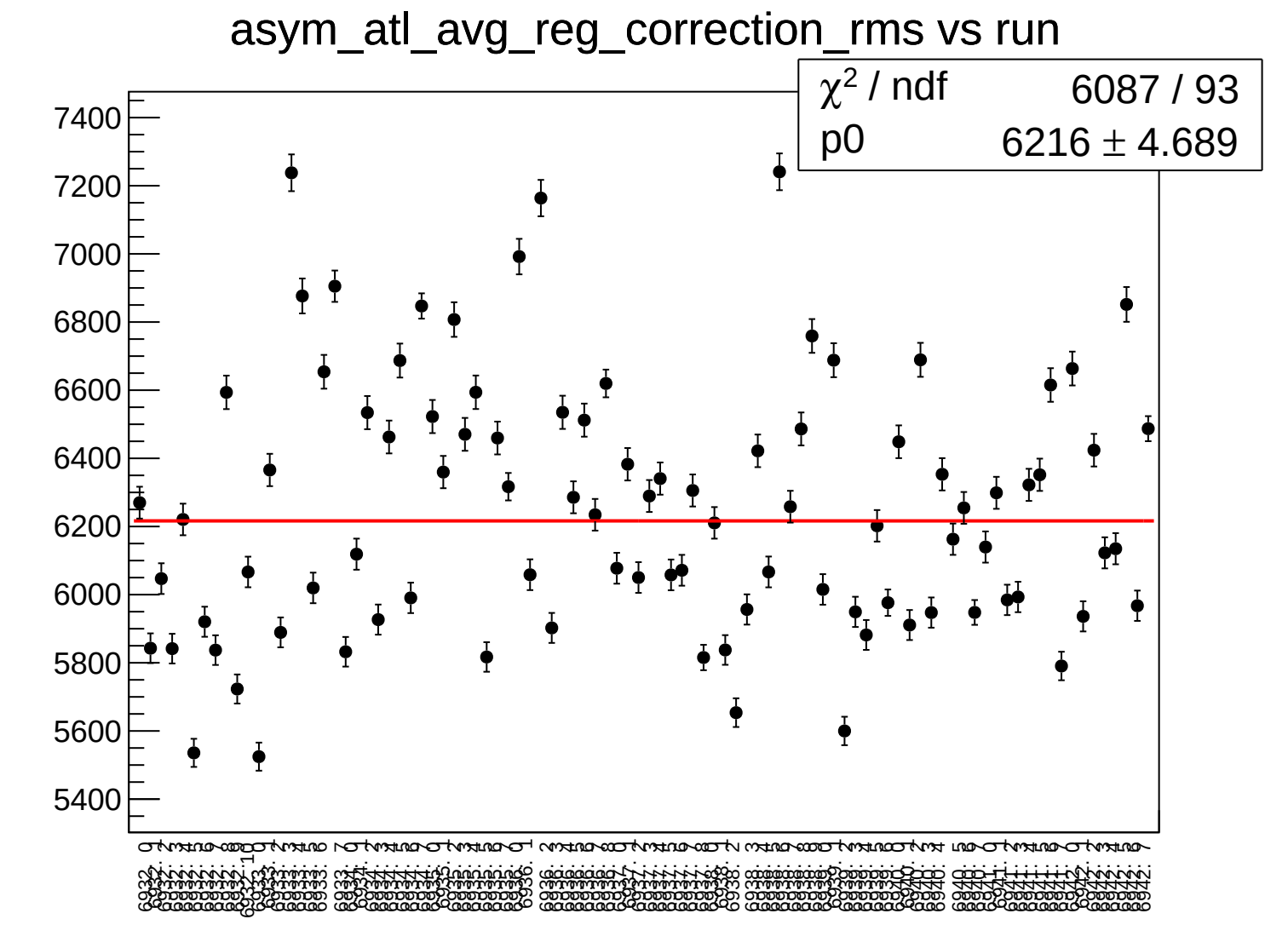

reg_asym_atl_avg_mean vs run
χ² / ndf 87.94 / 93
p0 −15.82 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −481.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

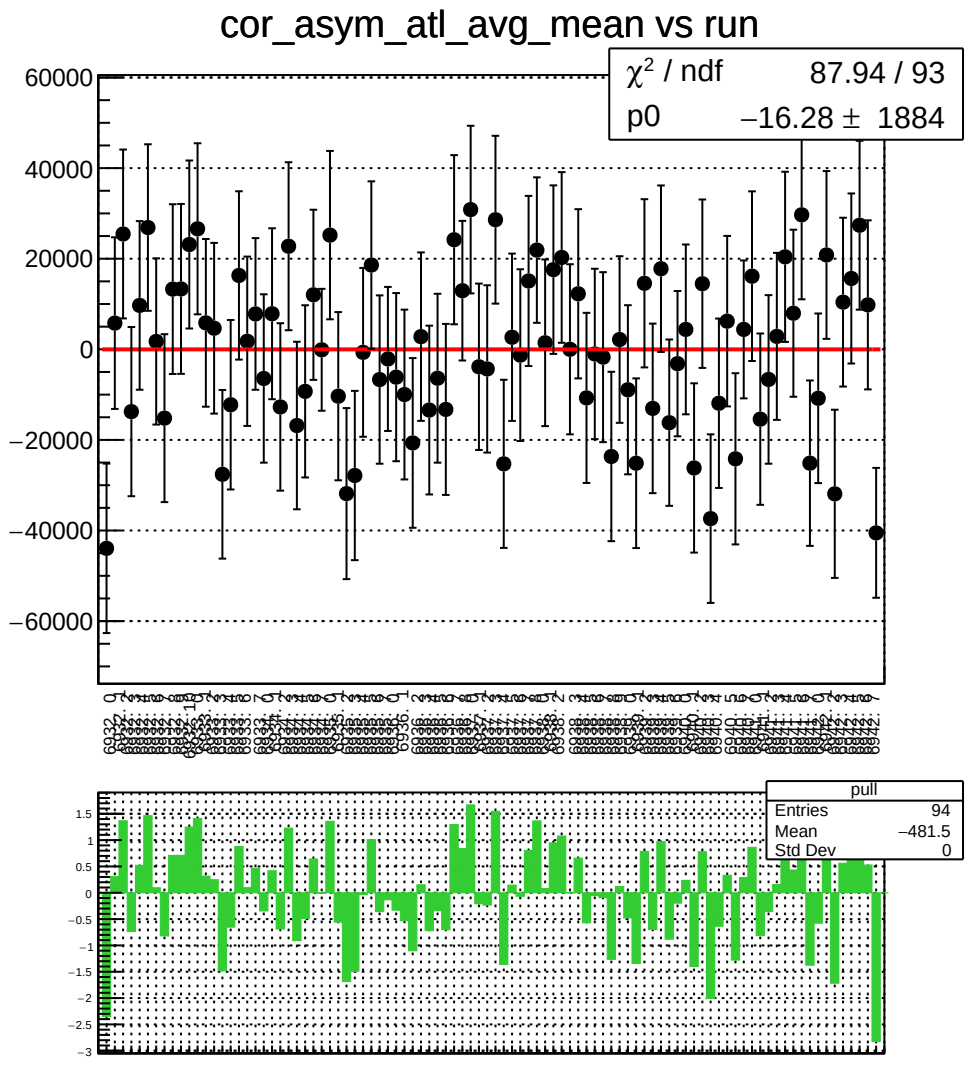

pull1D
Entries 94
Mean 0.003583
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

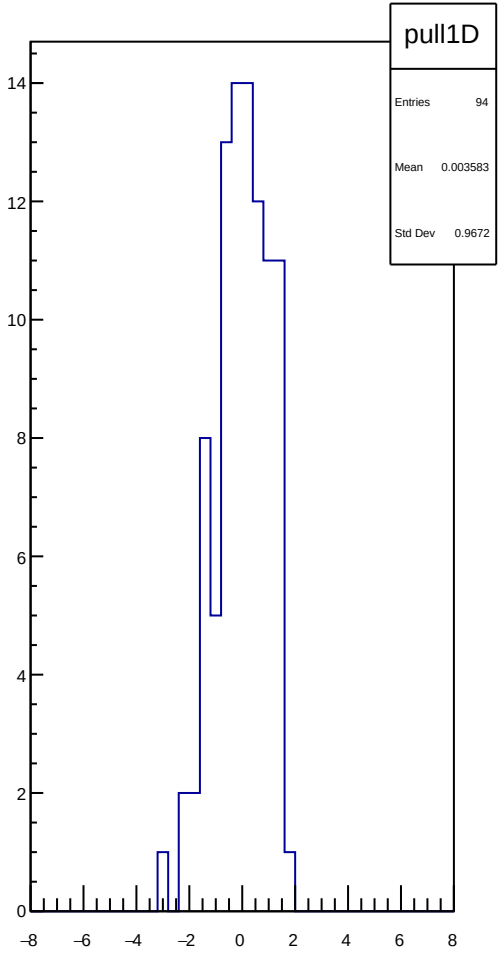

reg_asym_atl_avg_rms vs run
χ² / ndf 107.4 / 93
p0 1769 ± 1.332
1820
1800
1780
1760
1740
1720

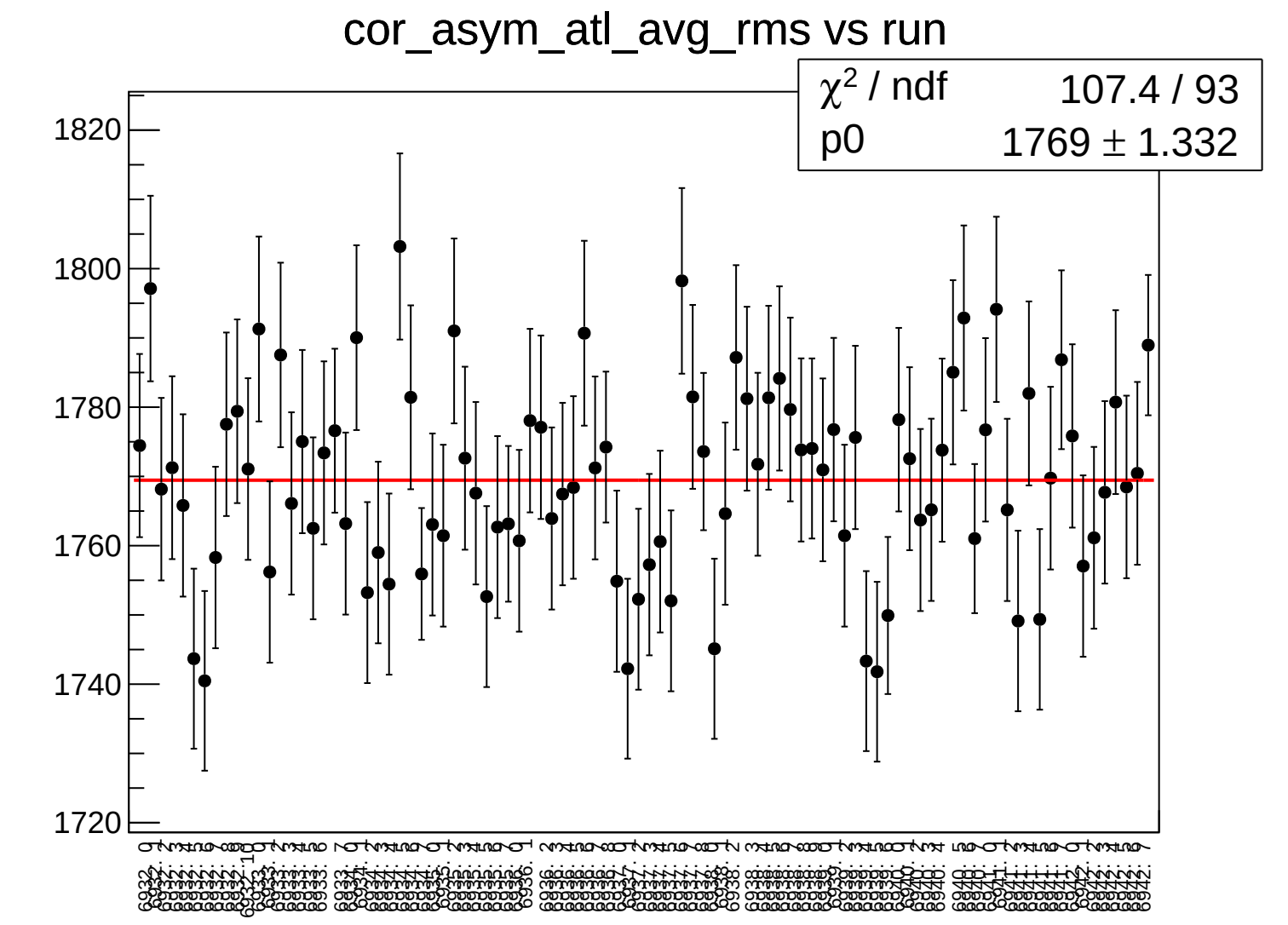

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.87 / 93
p0 7513 ± 6631
200
100
0
−100
−200
pull
Entries 94
Mean 484.9
Std Dev 0
2
1
0
−1
−2

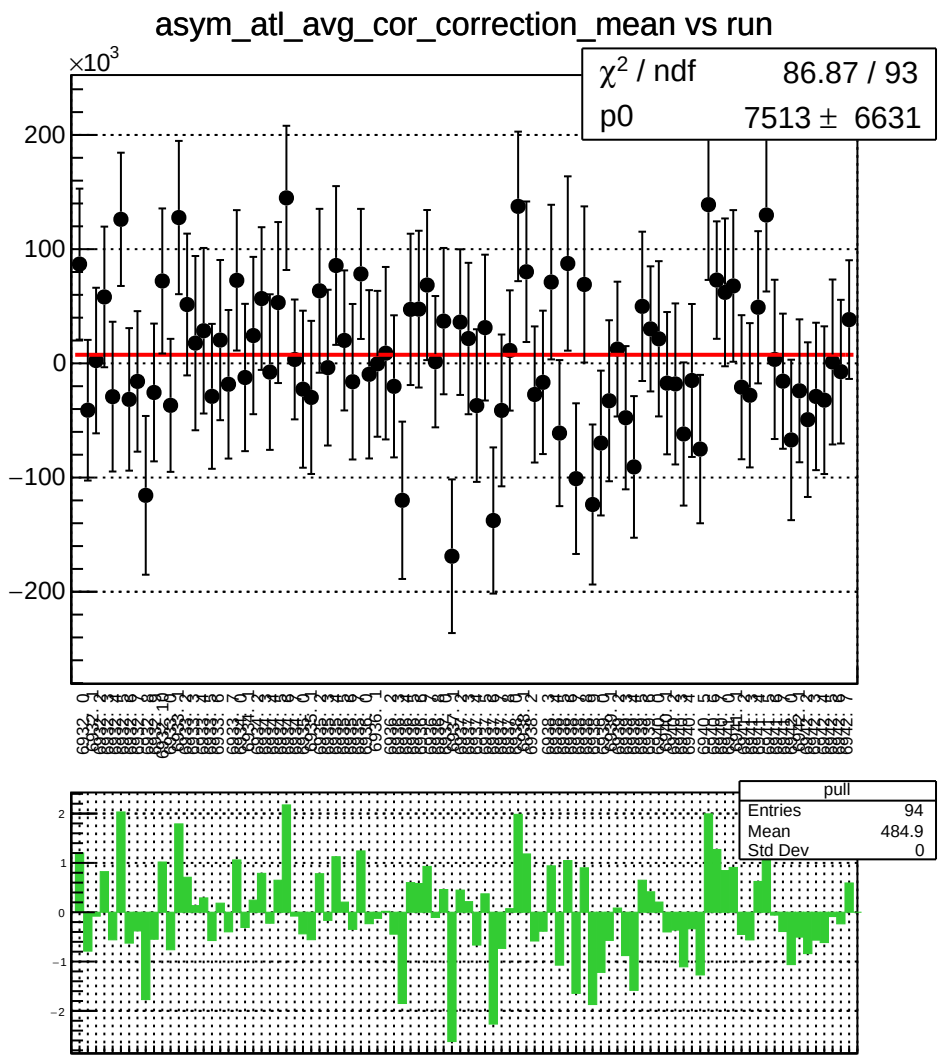

pull1D
Entries 94
Mean −0.007142
Std Dev 0.9613
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

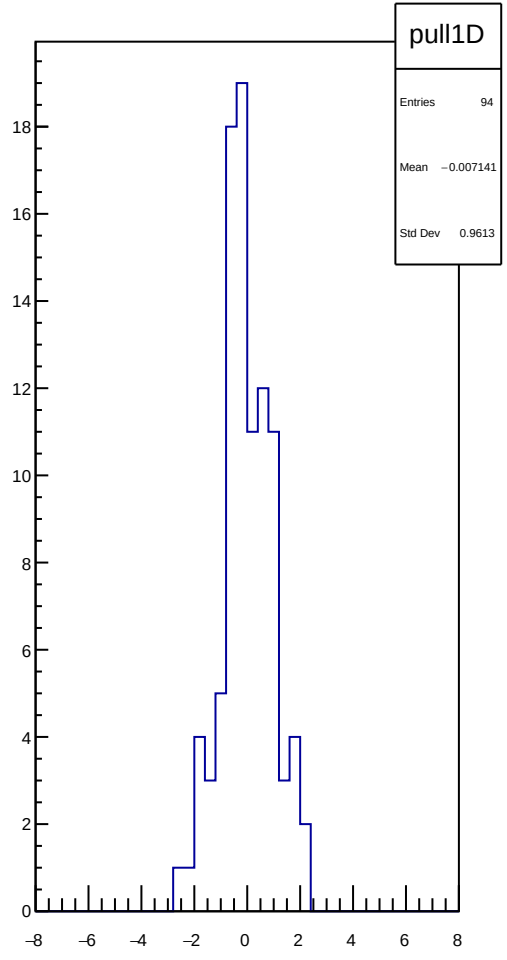

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 6087 / 93
p0 6216 ± 4.689
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

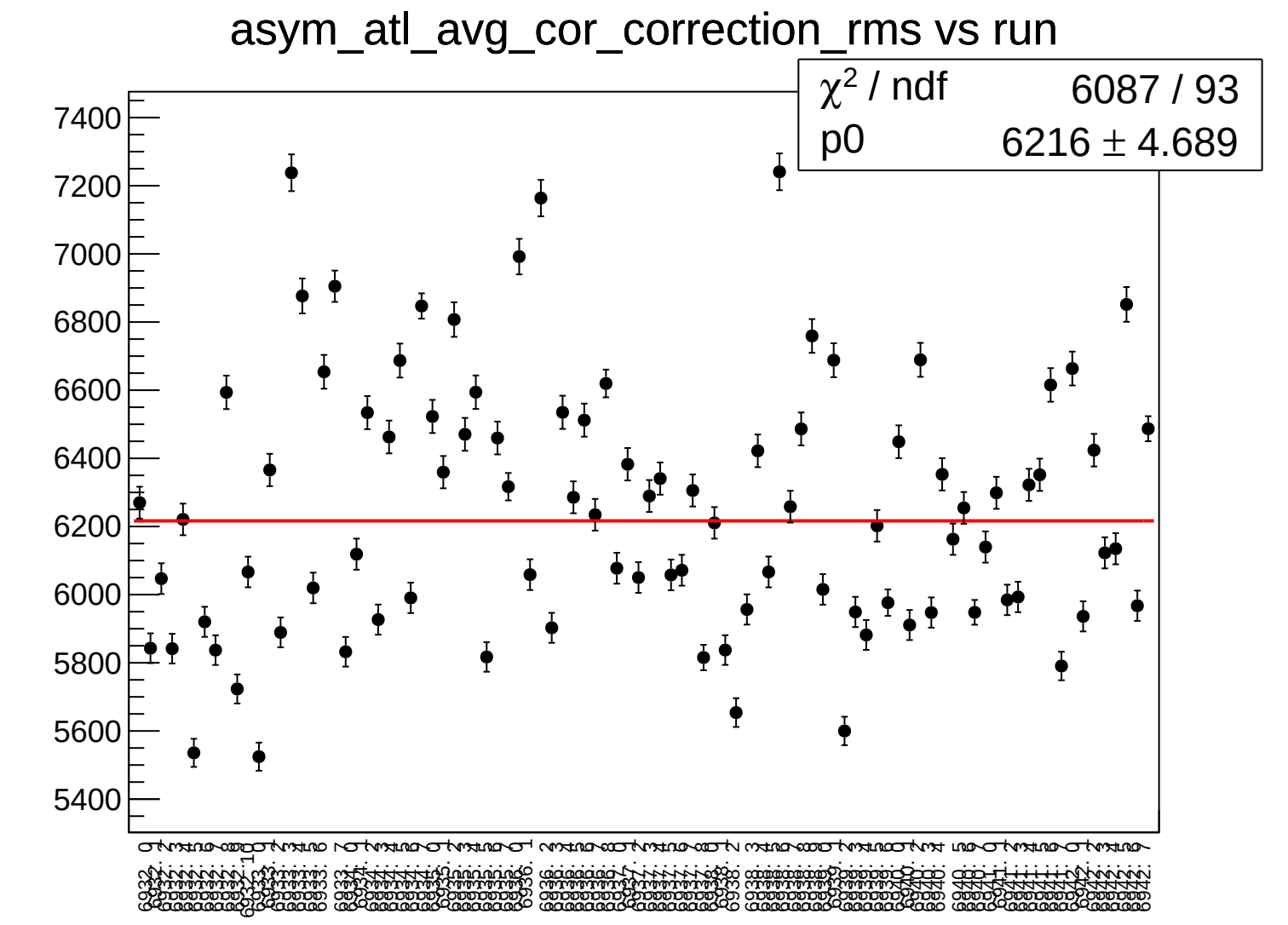

cor_asym_atl_avg_mean vs run
χ² / ndf 87.94 / 93
p0 −16.28 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −481.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

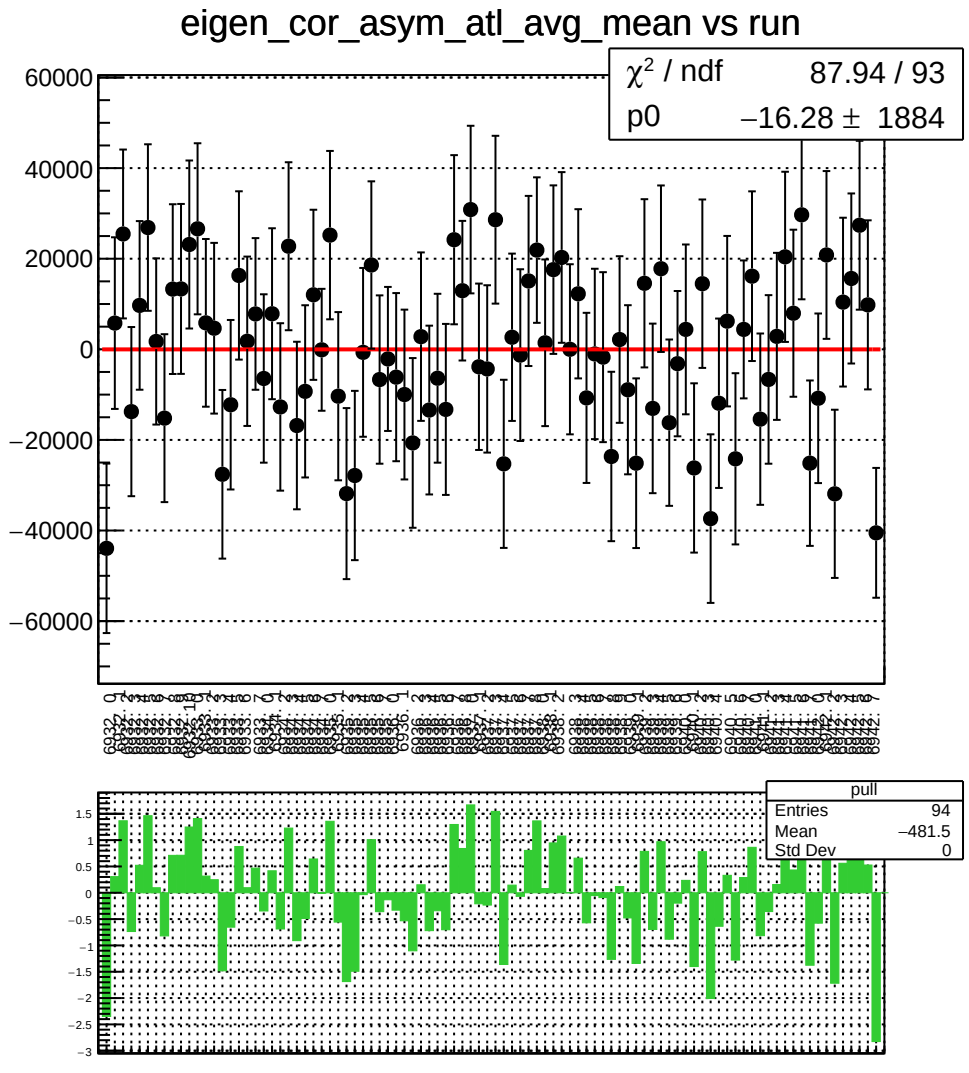

pull1D
Entries 94
Mean 0.003583
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

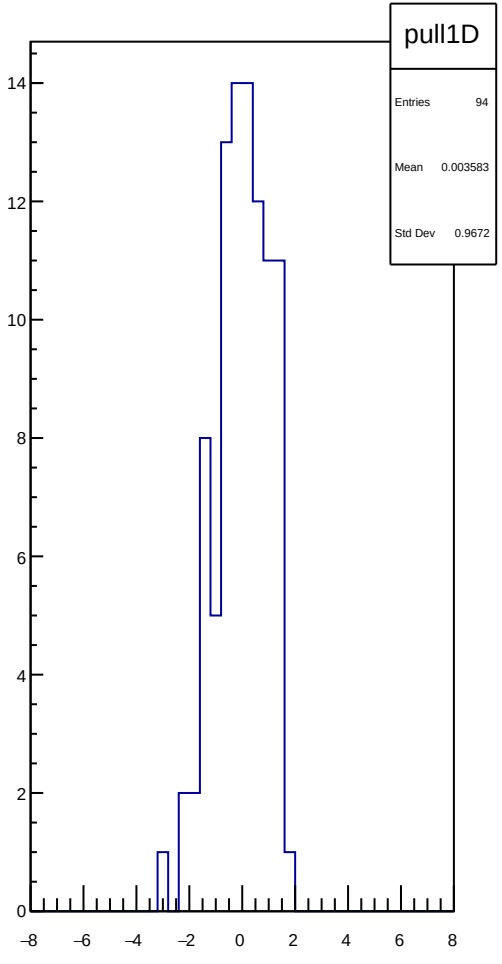

cor_asym_atl_avg_rms vs run
χ² / ndf 107.4 / 93
p0 1769 ± 1.332
1820
1800
1780
1760
1740
1720

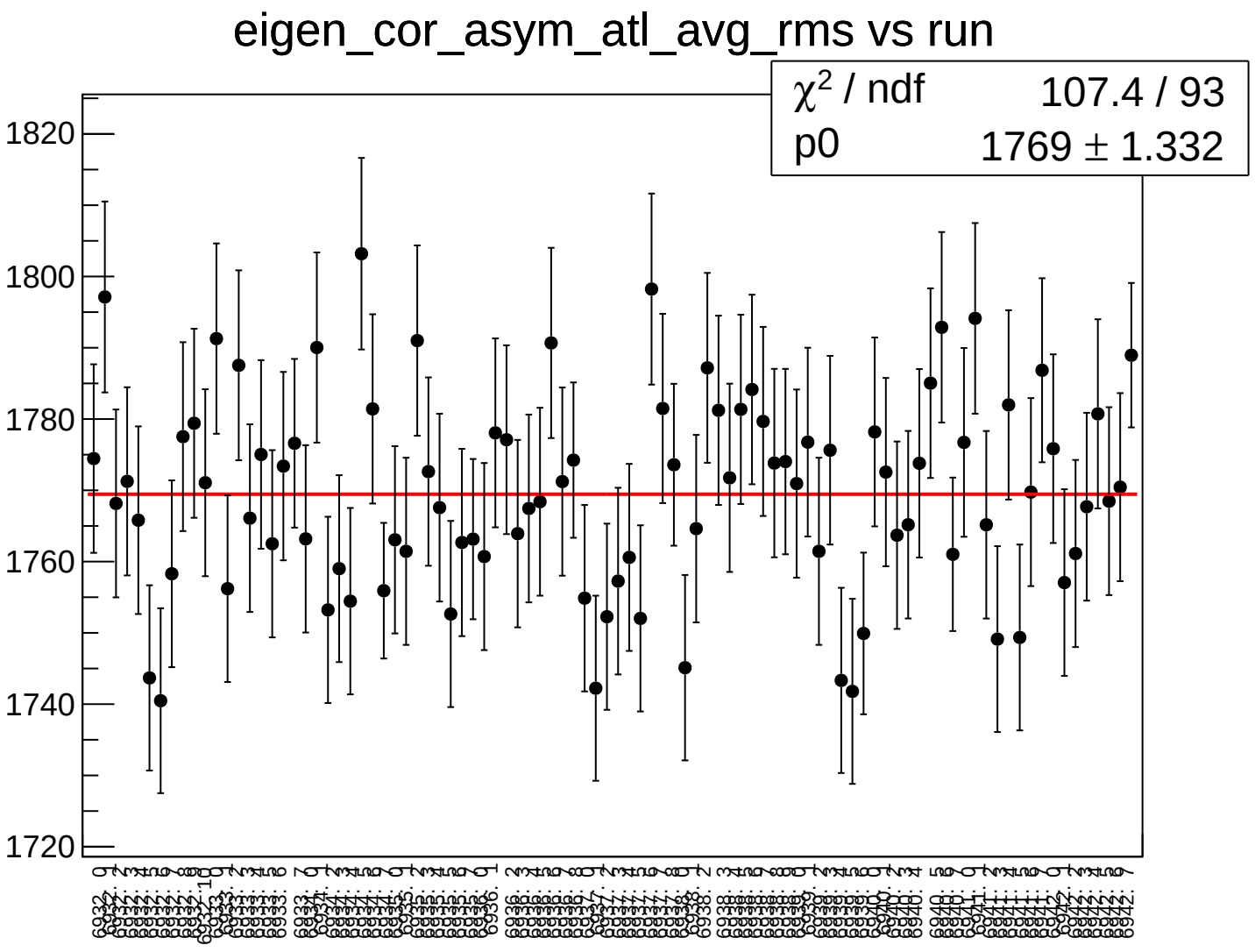

asym_atl_avg_cor_correction_mean vs run
χ² / ndf 86.87 / 93
p0 7513 ± 6631
pull
Entries 94
Mean 484.9
Std Dev 0

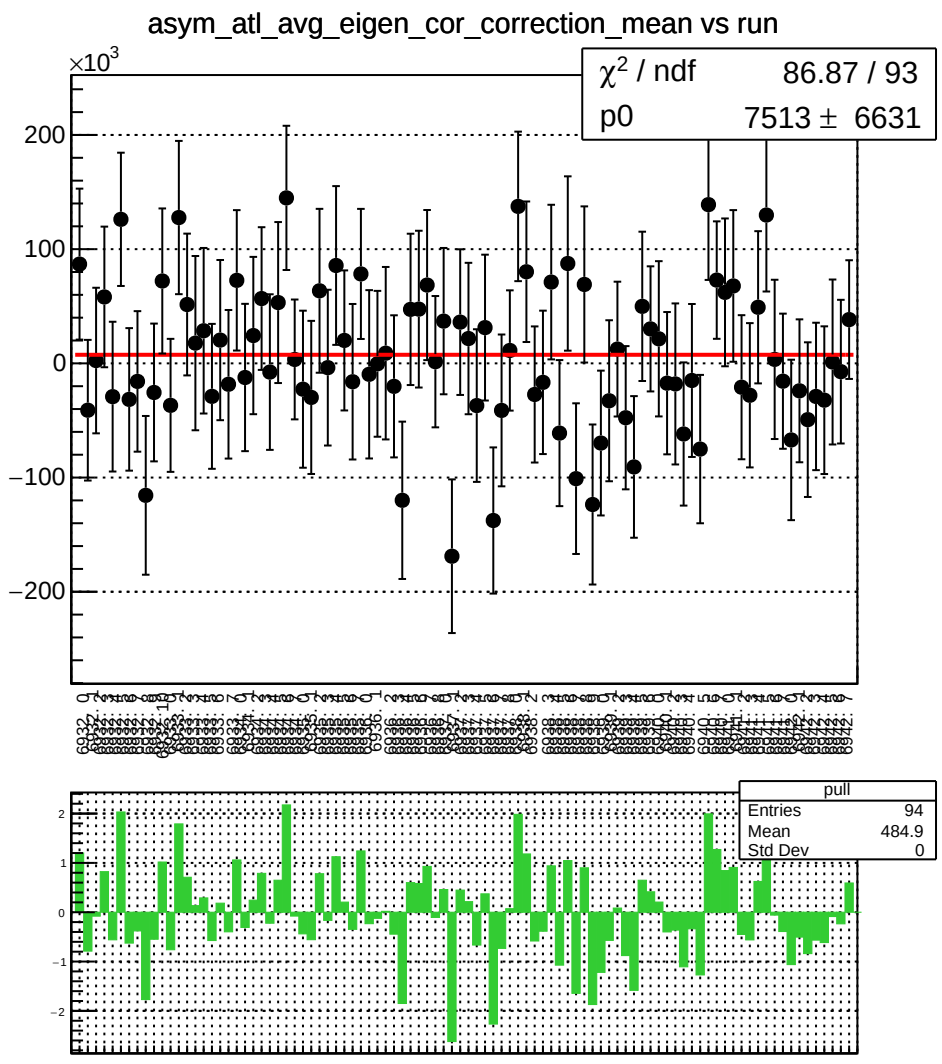

pull1D
Entries 94
Mean −0.007141
Std Dev 0.9613

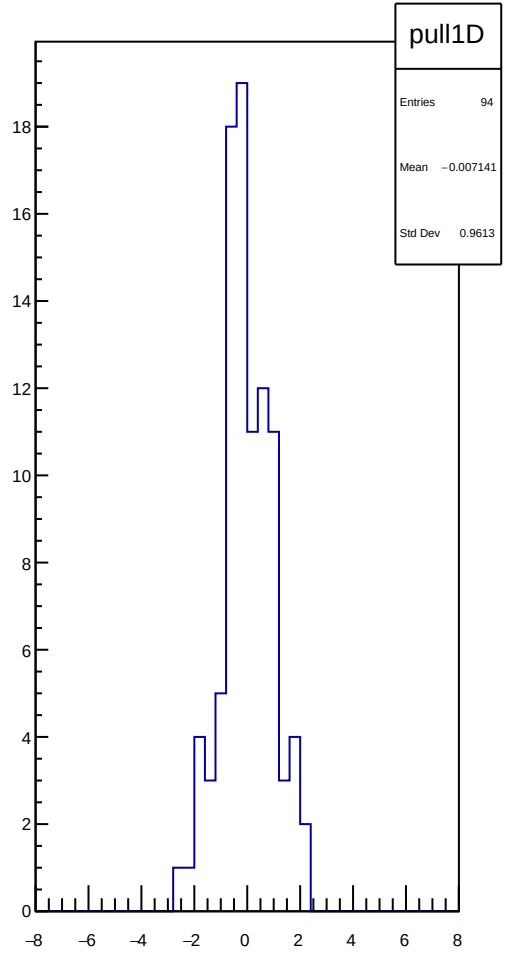

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 6087 / 93
p0 6216 ± 4.689
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

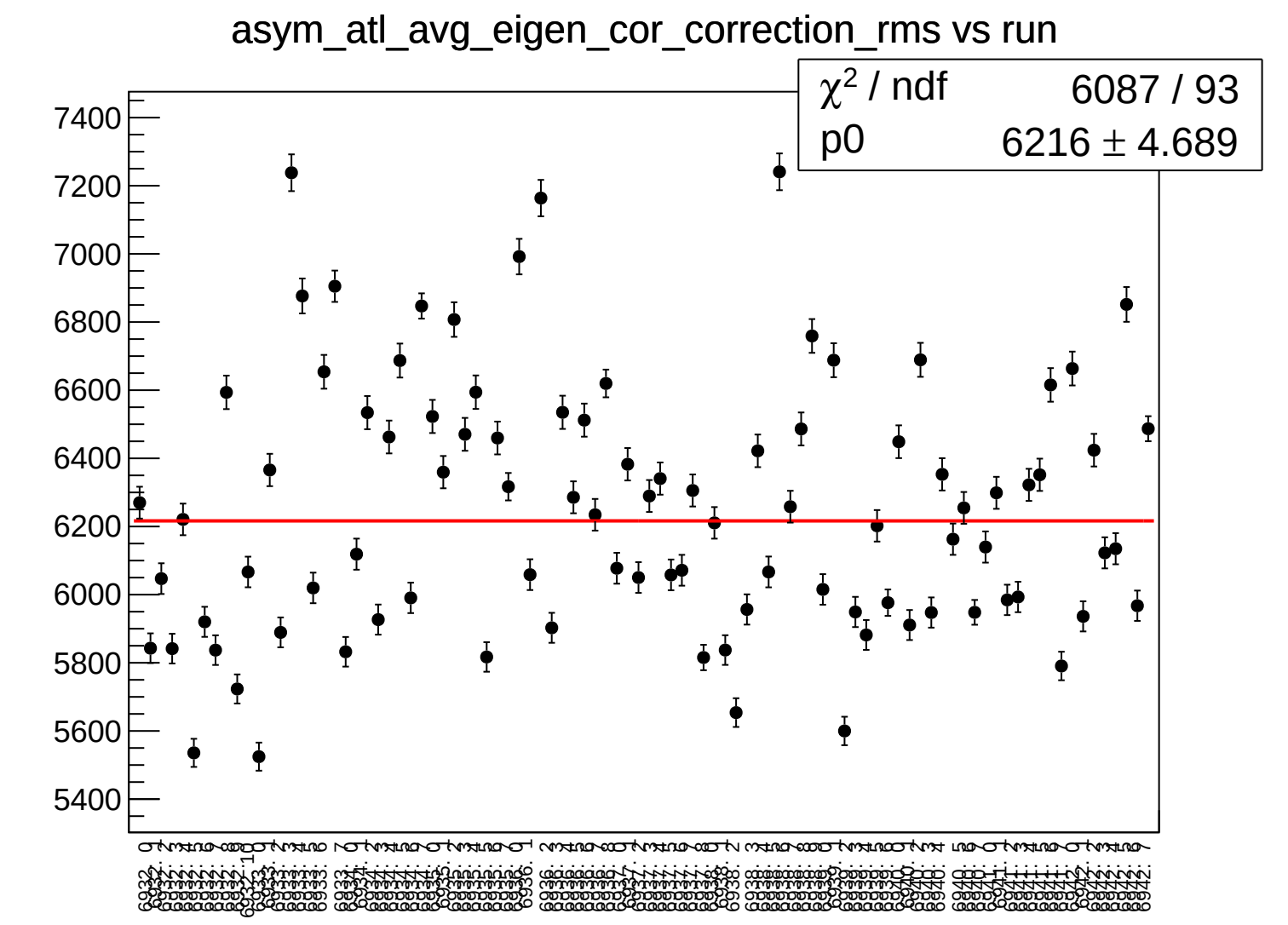

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 87.94 / 93
p0 −16.28 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −481.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

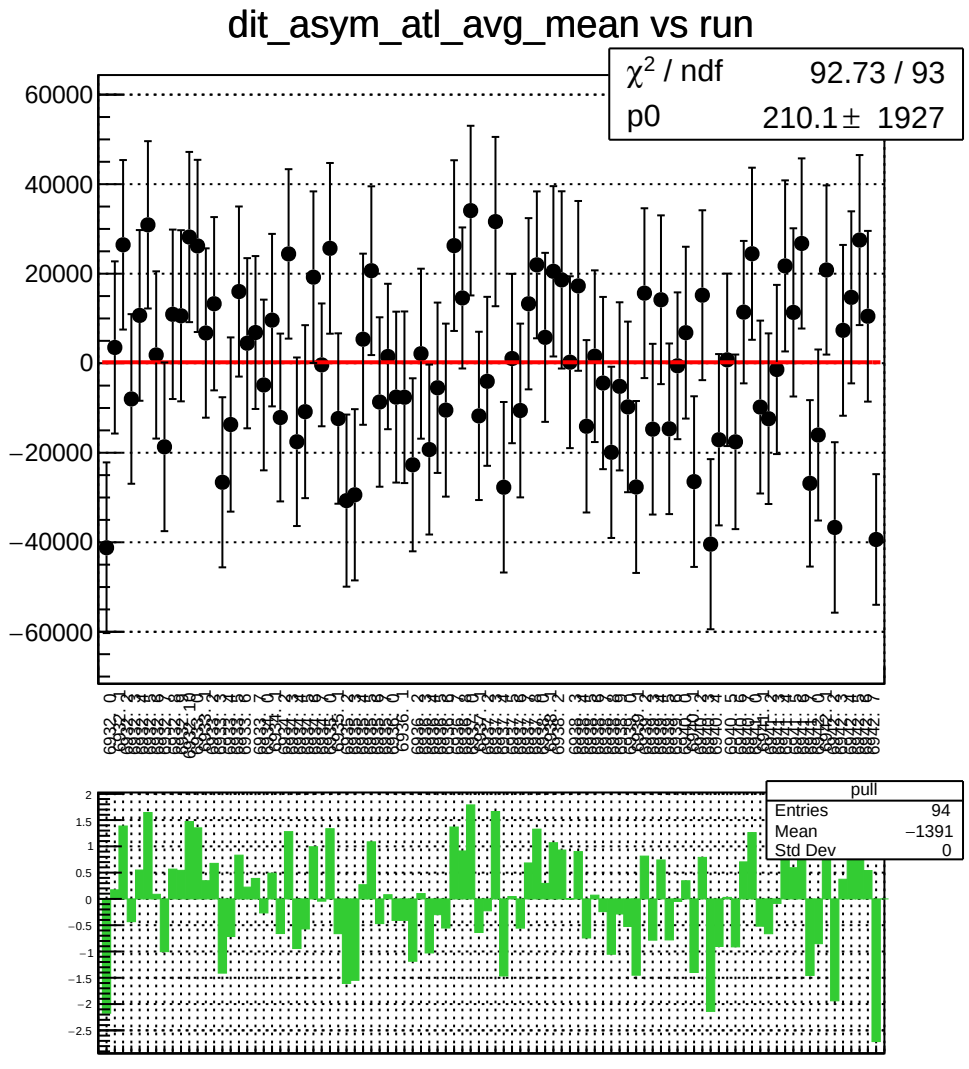

pull1D
Entries 94
Mean 0.003583
Std Dev 0.9672
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

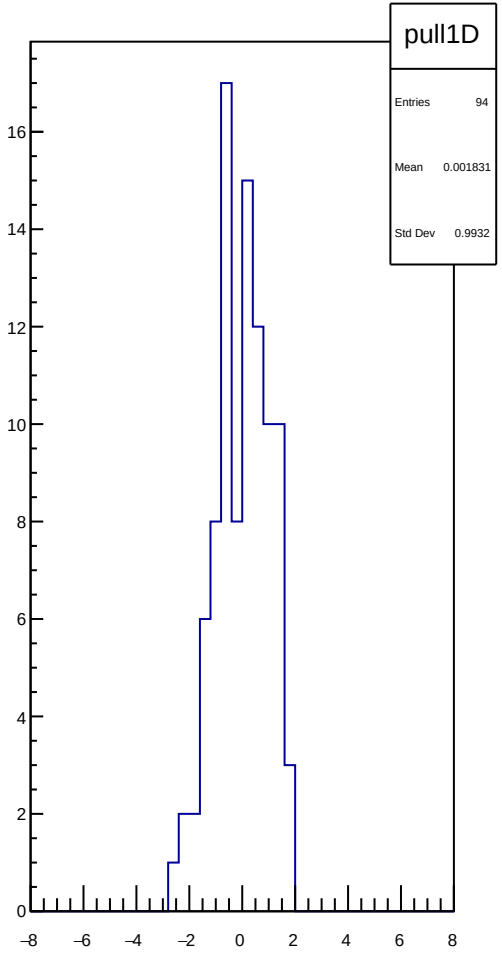

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 107.4 / 93
p0 1769 ± 1.332
1820
1800
1780
1760
1740
1720

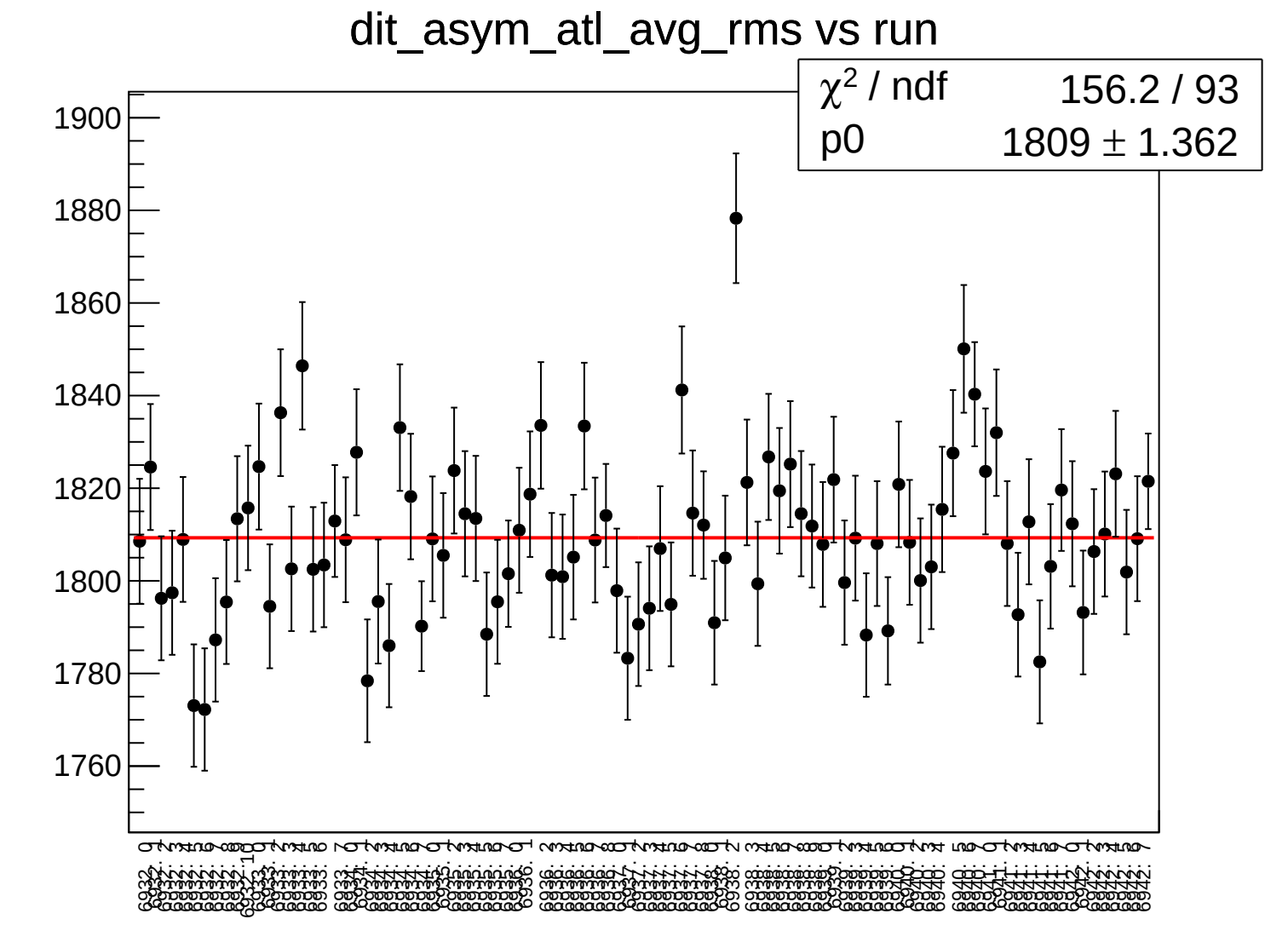

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.87 / 93
p0 7513 ± 6631
200
100
0
−100
−200
pull
Entries 94
Mean 484.9
Std Dev 0
2
1
0
−1
−2

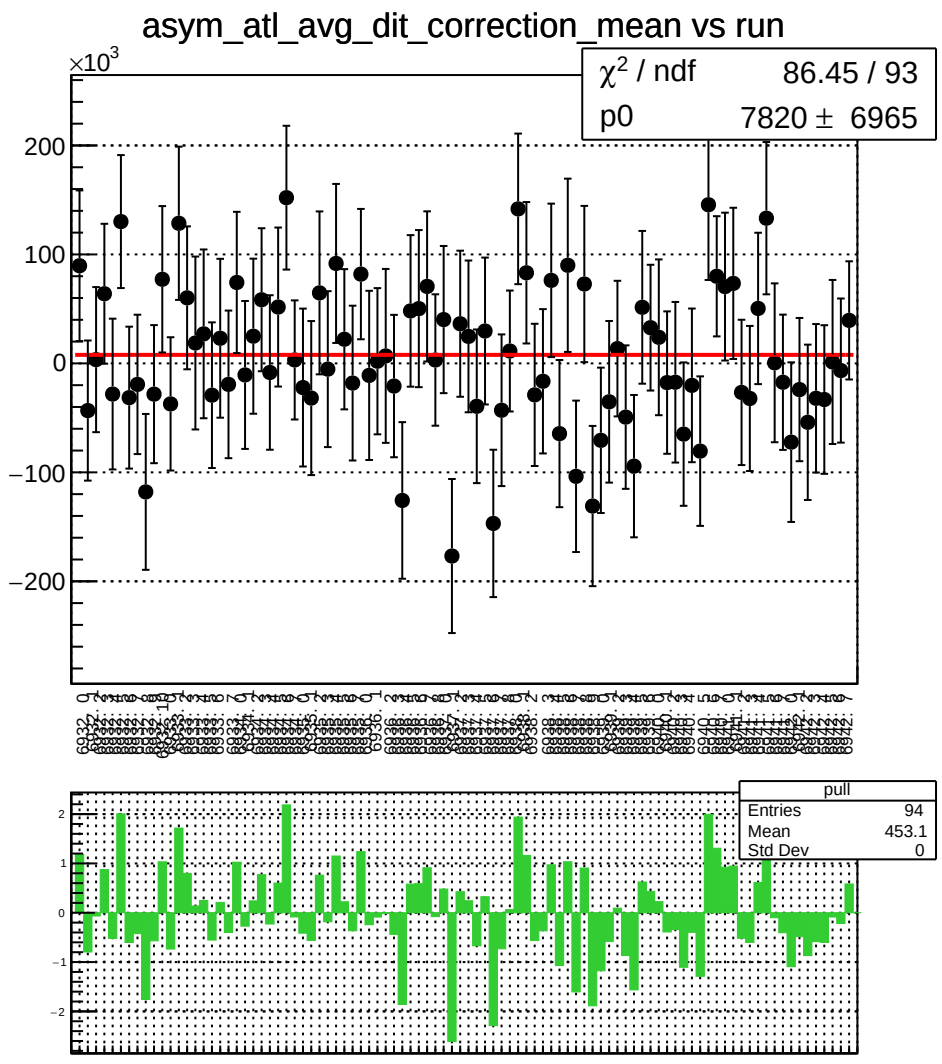

pull1D
Entries 94
Mean −0.007141
Std Dev 0.9613
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

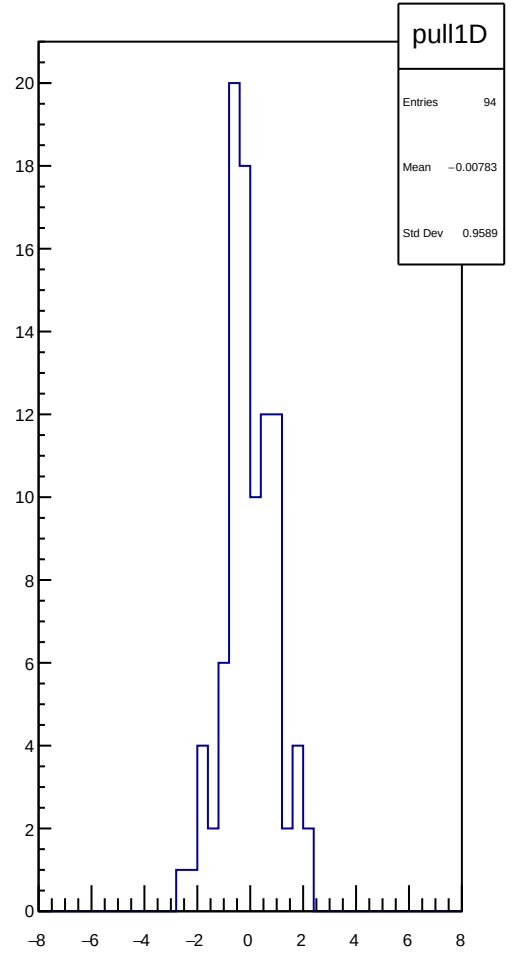

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 6087 / 93
p0 6216 ± 4.689
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

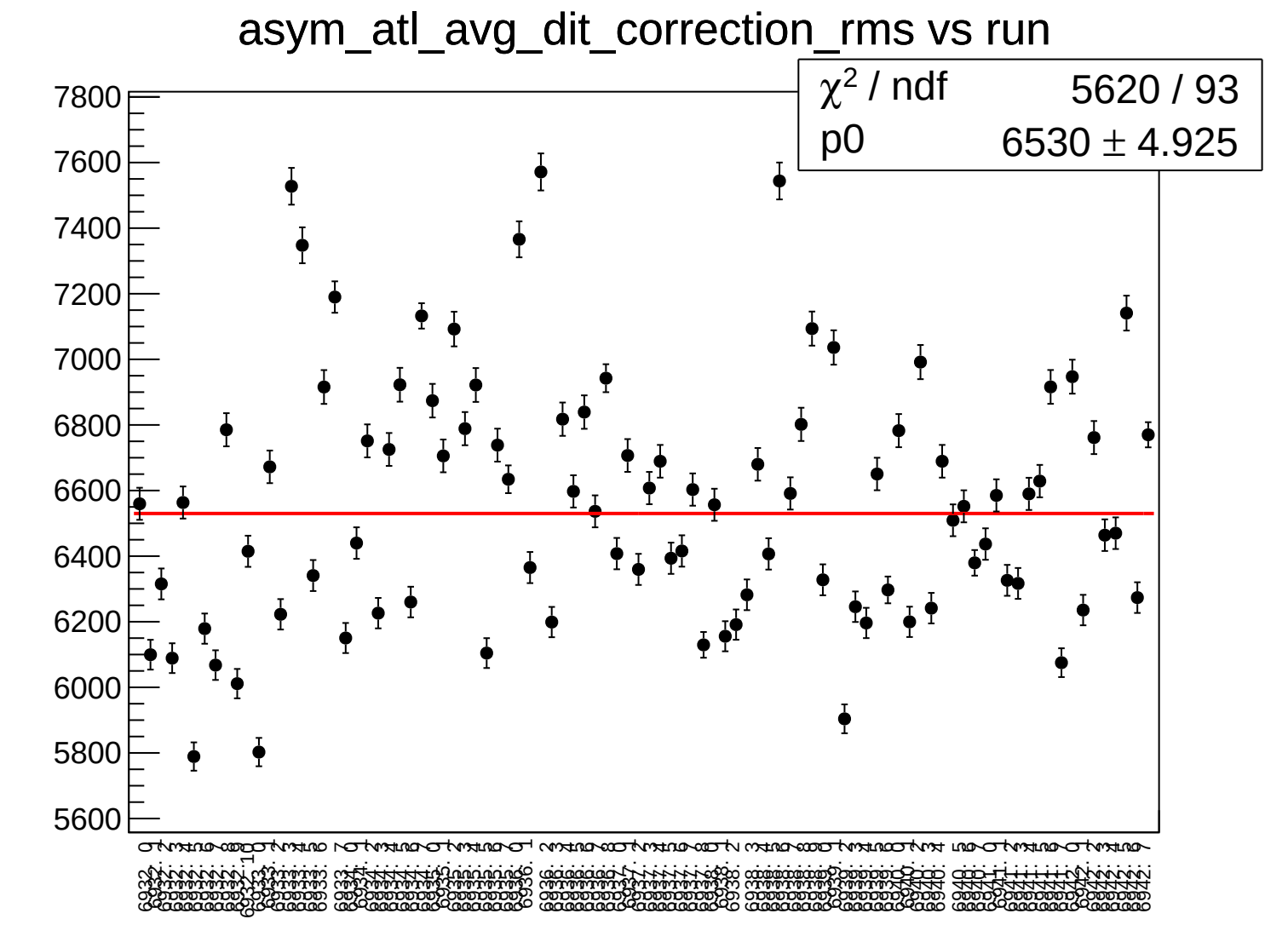

dit_asym_atl_avg_mean vs run
χ² / ndf 92.73 / 93
p0 210.1 ± 1927
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1391
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

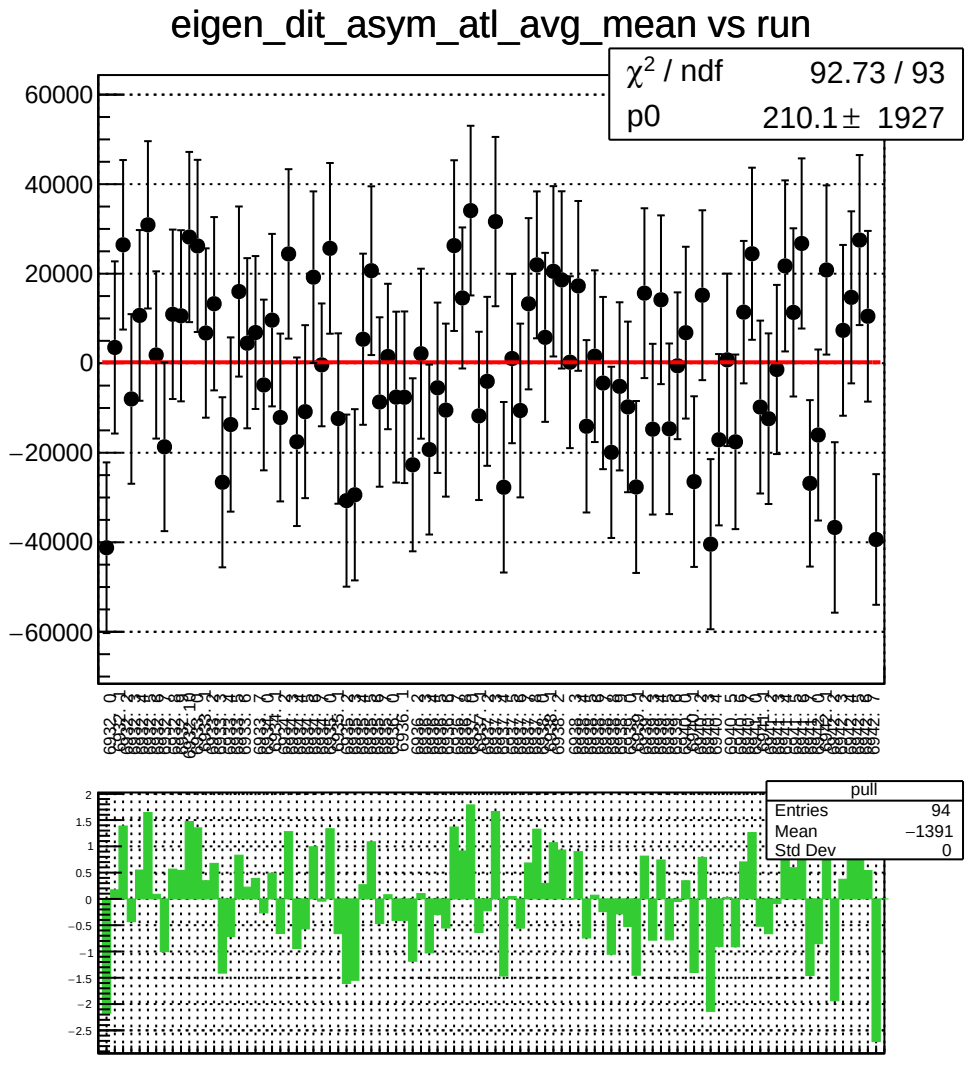

pull1D
Entries 94
Mean 0.001831
Std Dev 0.9932
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

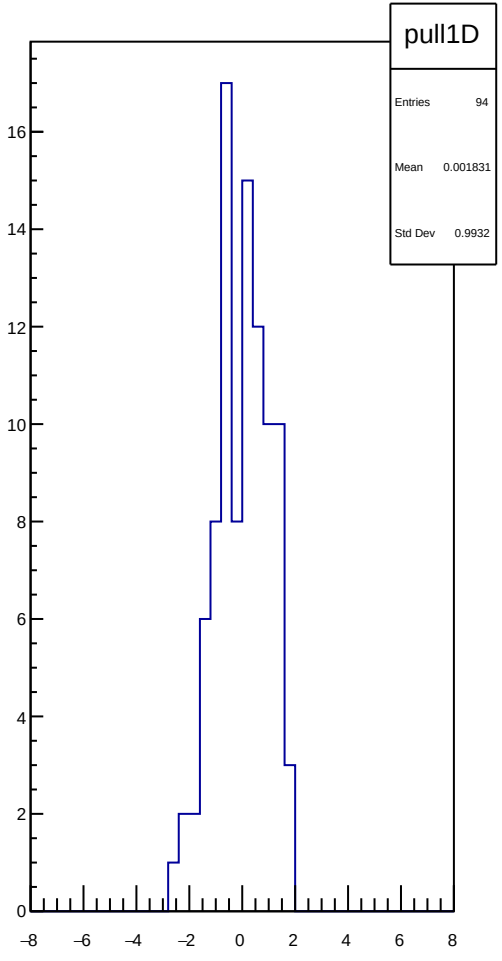

dit_asym_atl_avg_rms vs run
χ² / ndf 156.2 / 93
p0 1809 ± 1.362
1900
1880
1860
1840
1820
1800
1780
1760

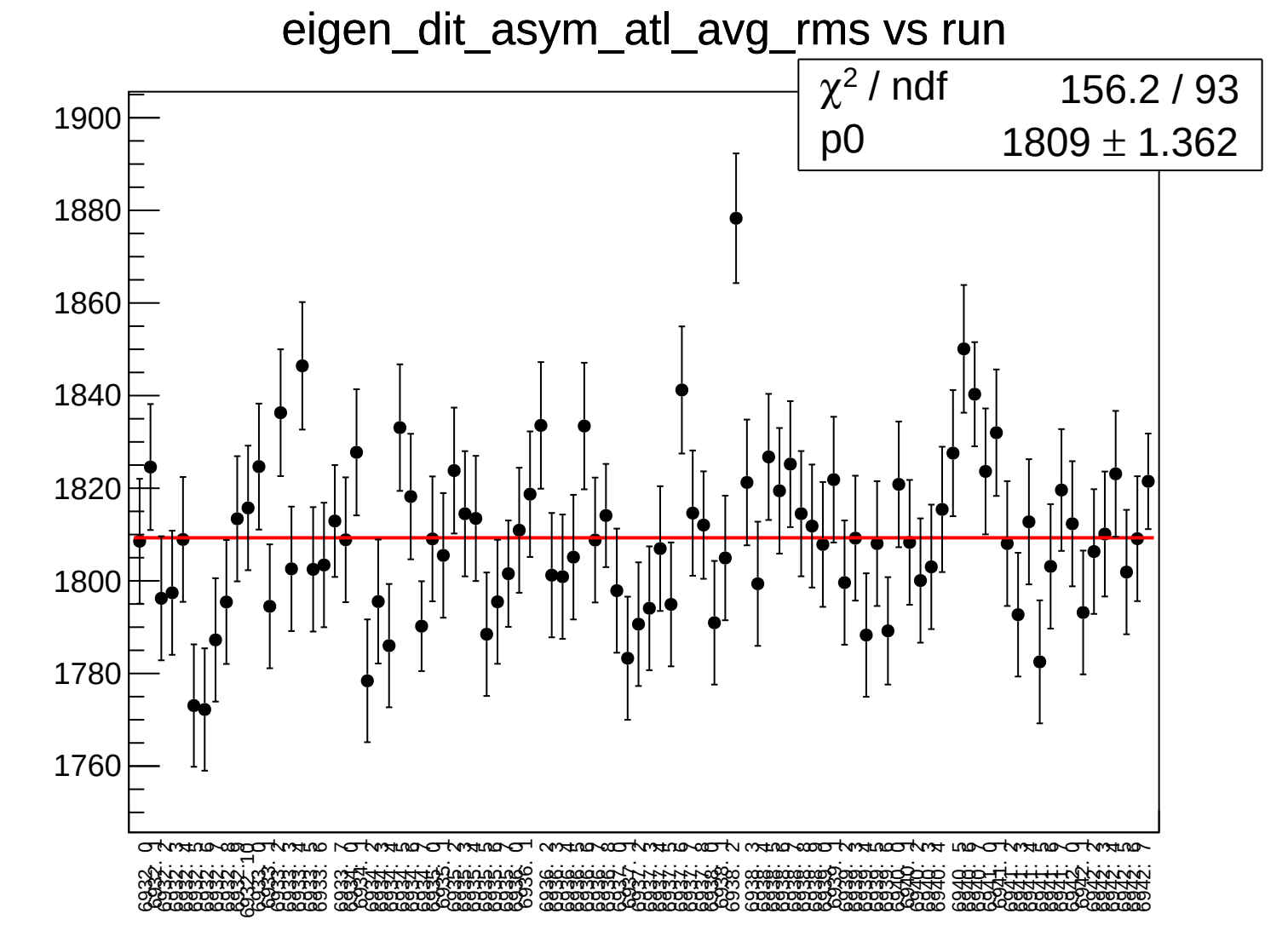

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.45 / 93
p0 7820 ± 6965
200
100
0
−100
−200
pull
Entries 94
Mean 453.1
Std Dev 0
2
1
0
−1
−2

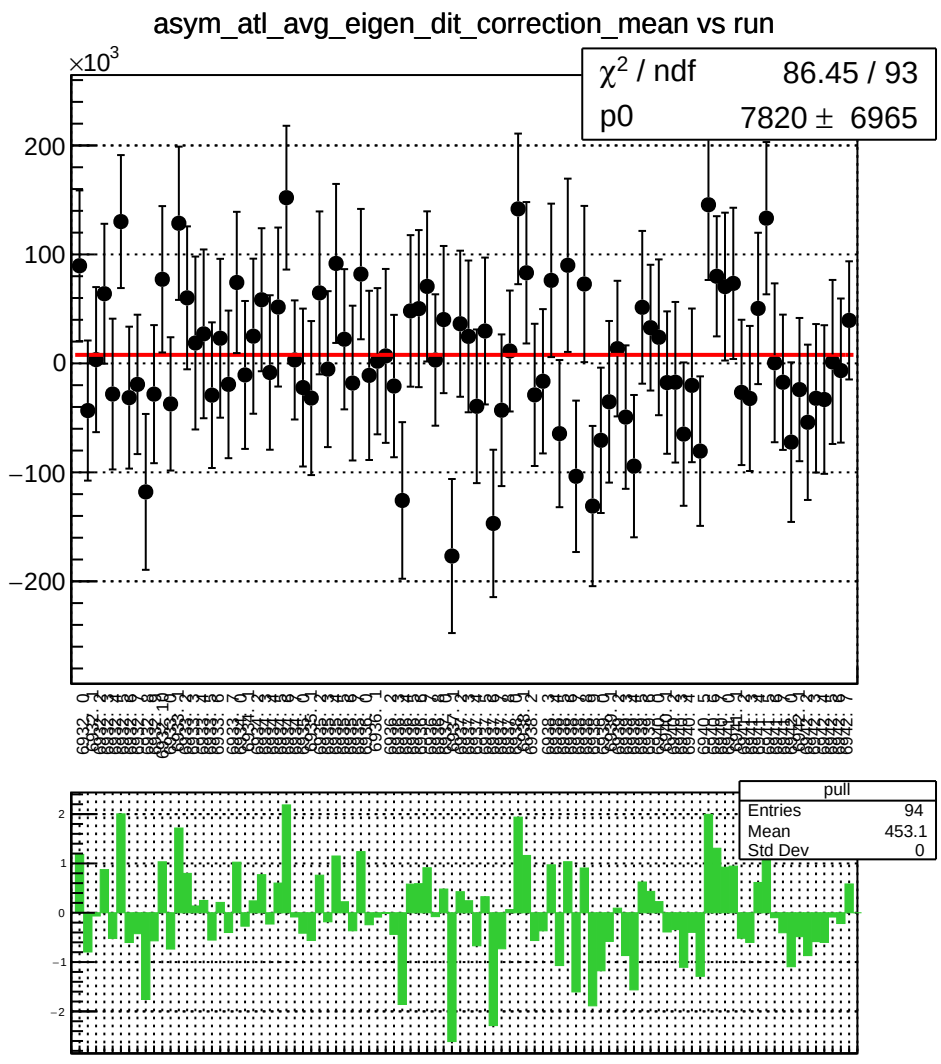

pull1D
Entries 94
Mean −0.00783
Std Dev 0.9589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

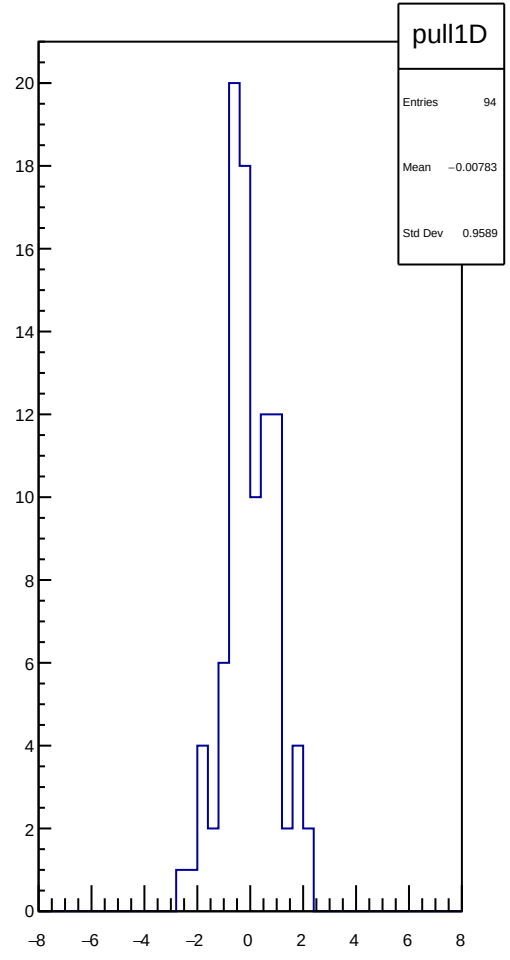

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 5620 / 93
p0 6530 ± 4.925
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

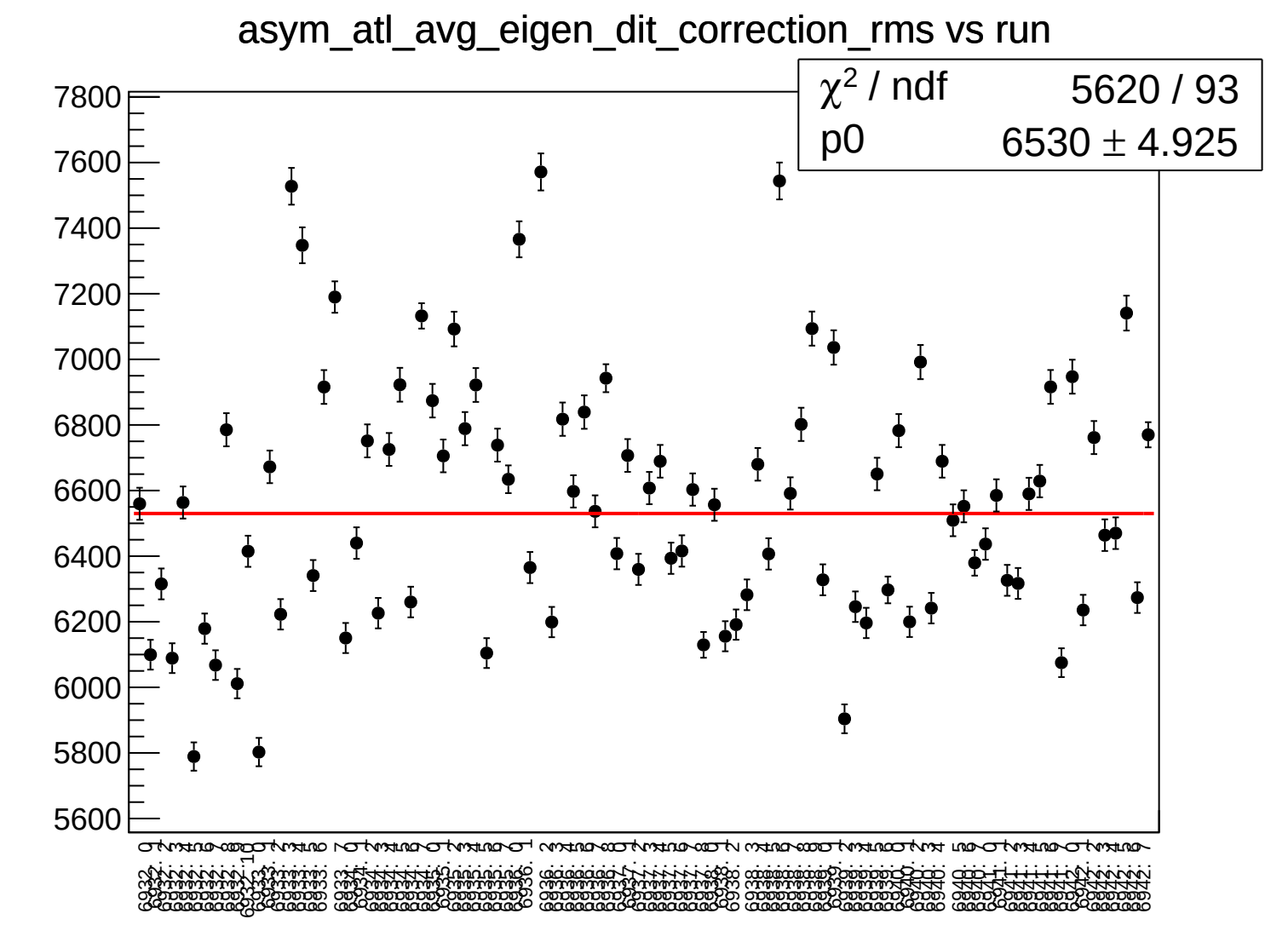

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 92.73 / 93
p0 210.1± 1927
pull
Entries 94
Mean −1391
Std Dev 0

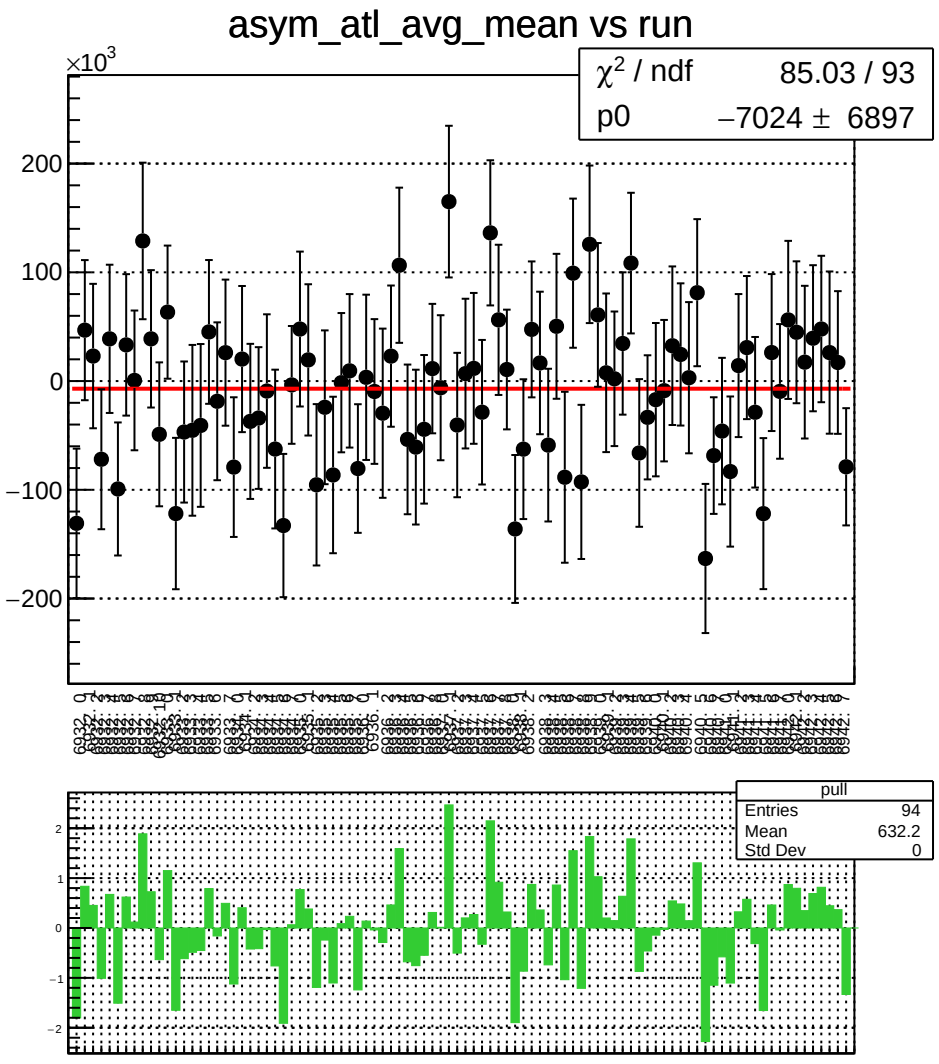

pull1D
Entries 94
Mean 0.001831
Std Dev 0.9932

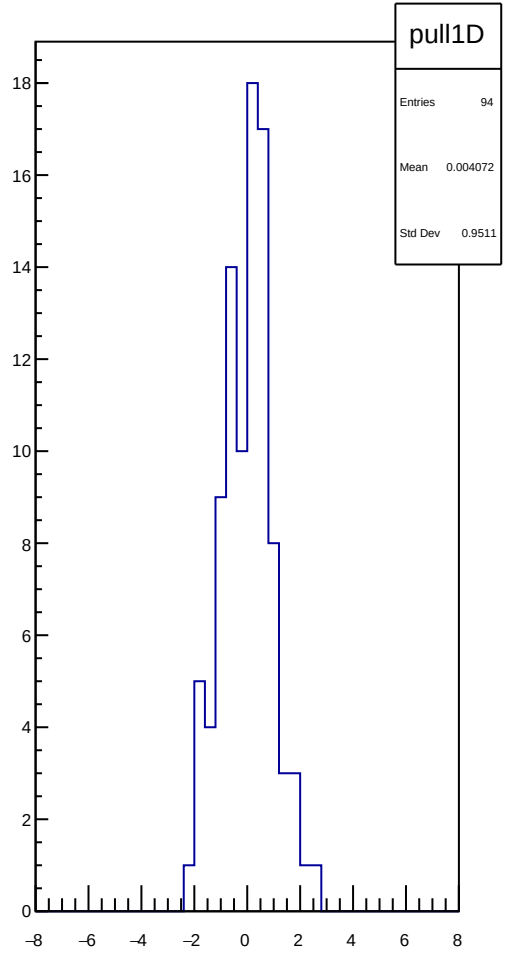

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 156.2 / 93
p0 1809 ± 1.362
1900
1880
1860
1840
1820
1800
1780
1760

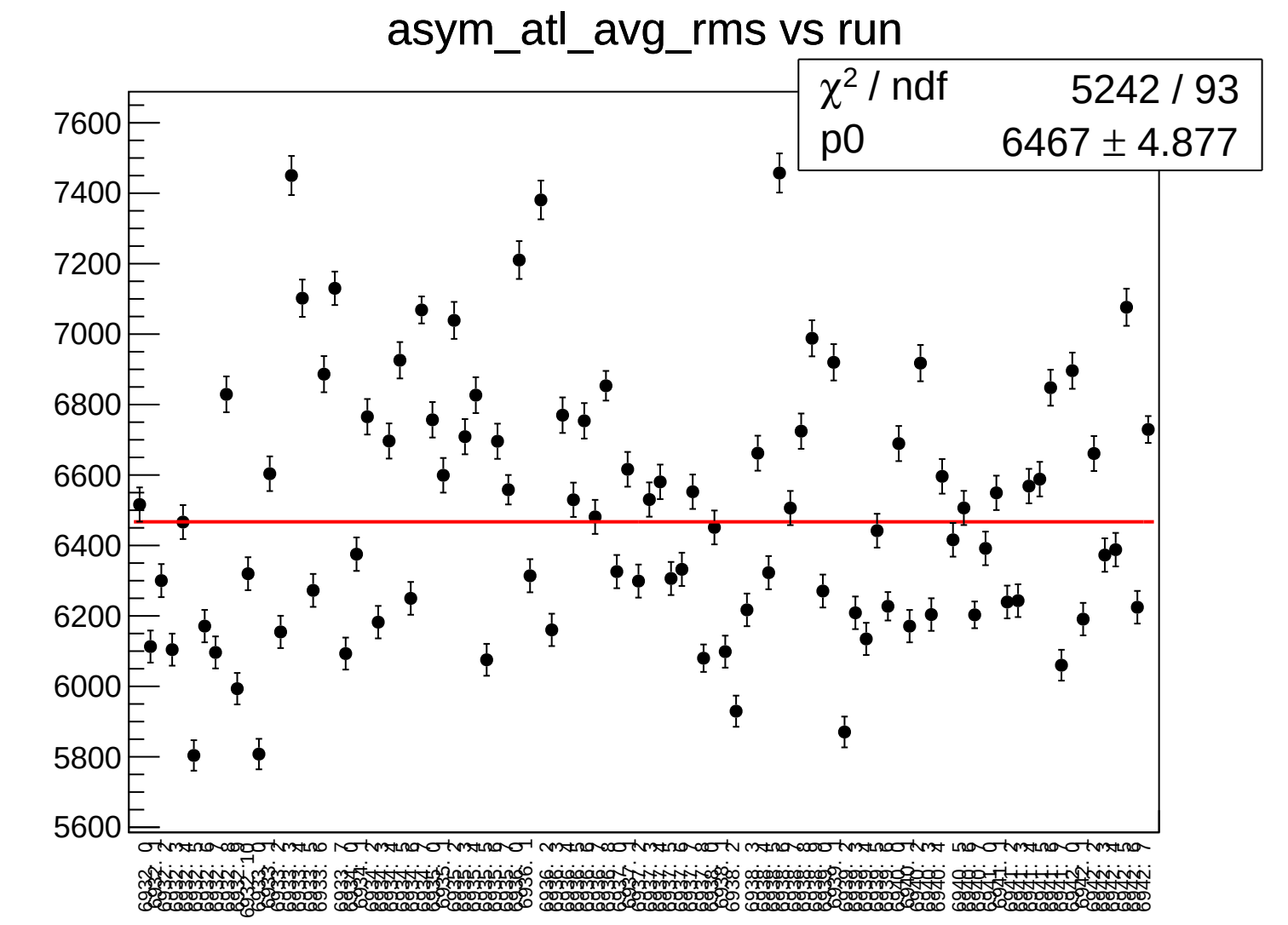

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.45 / 93
p0 7820 ± 6965
200
100
0
−100
−200
pull
Entries 94
Mean 453.1
Std Dev 0
2
1
0
−1
−2

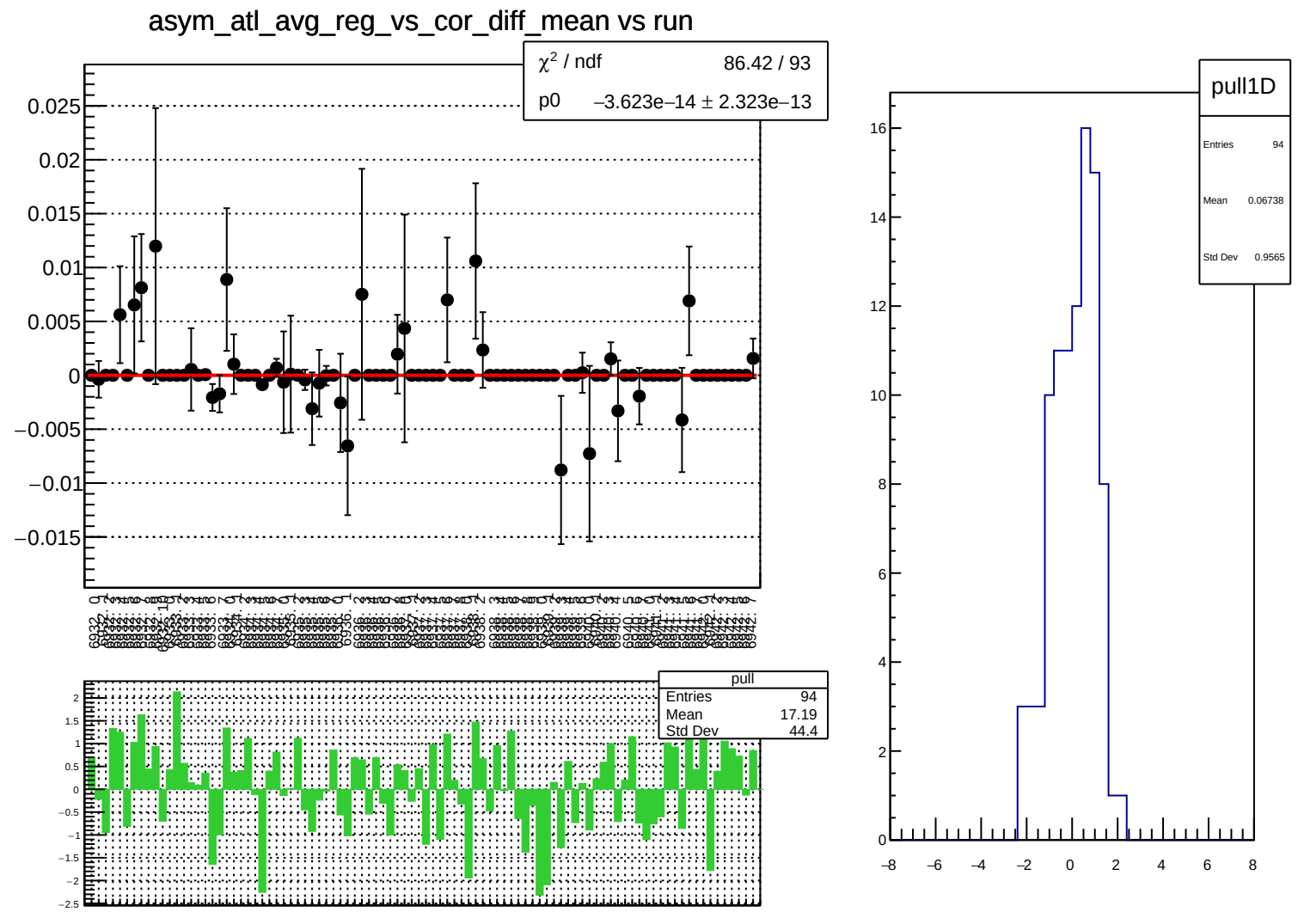

pull1D
Entries 94
Mean −0.00783
Std Dev 0.9589
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

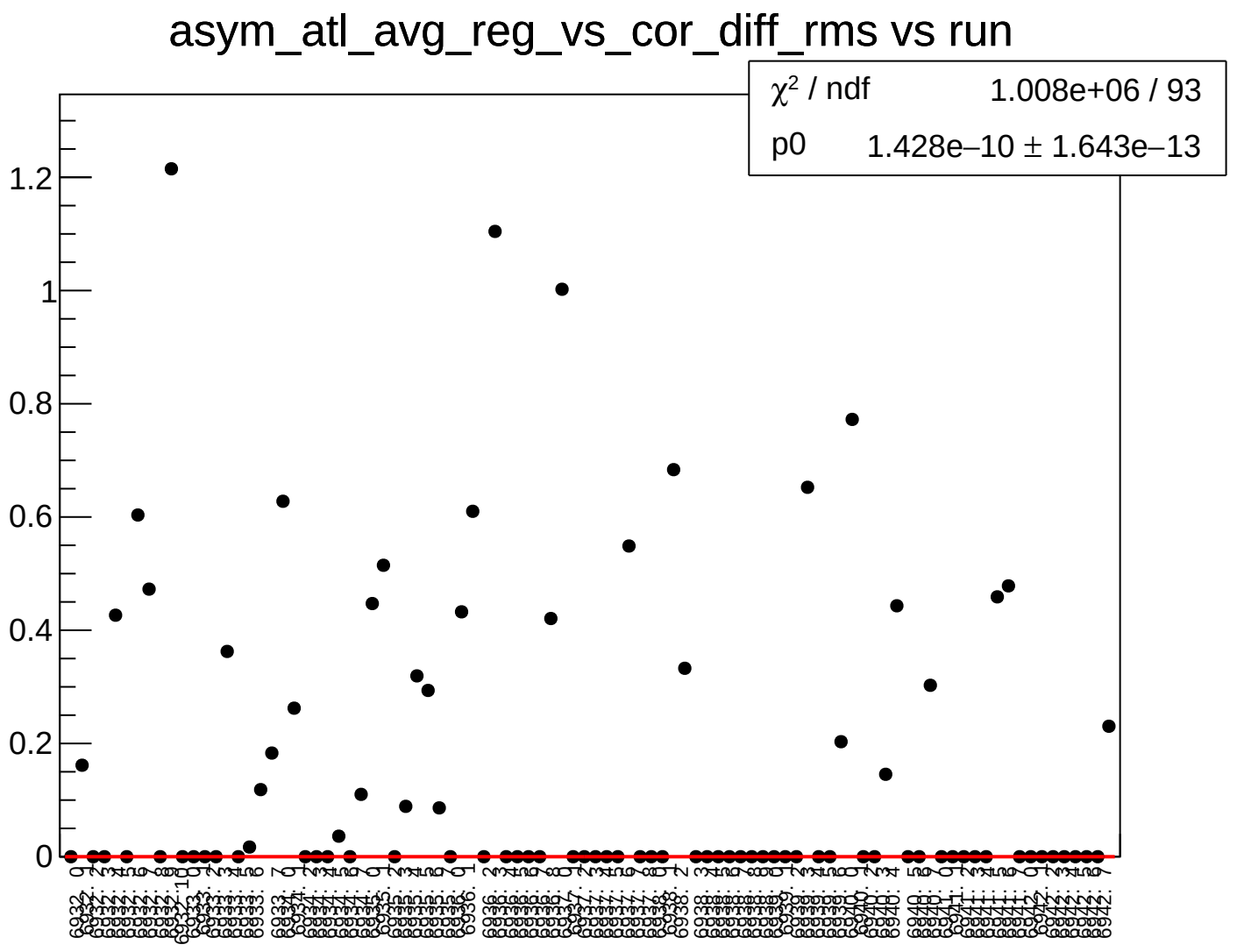

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 5620 / 93
p0 6530 ± 4.925
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

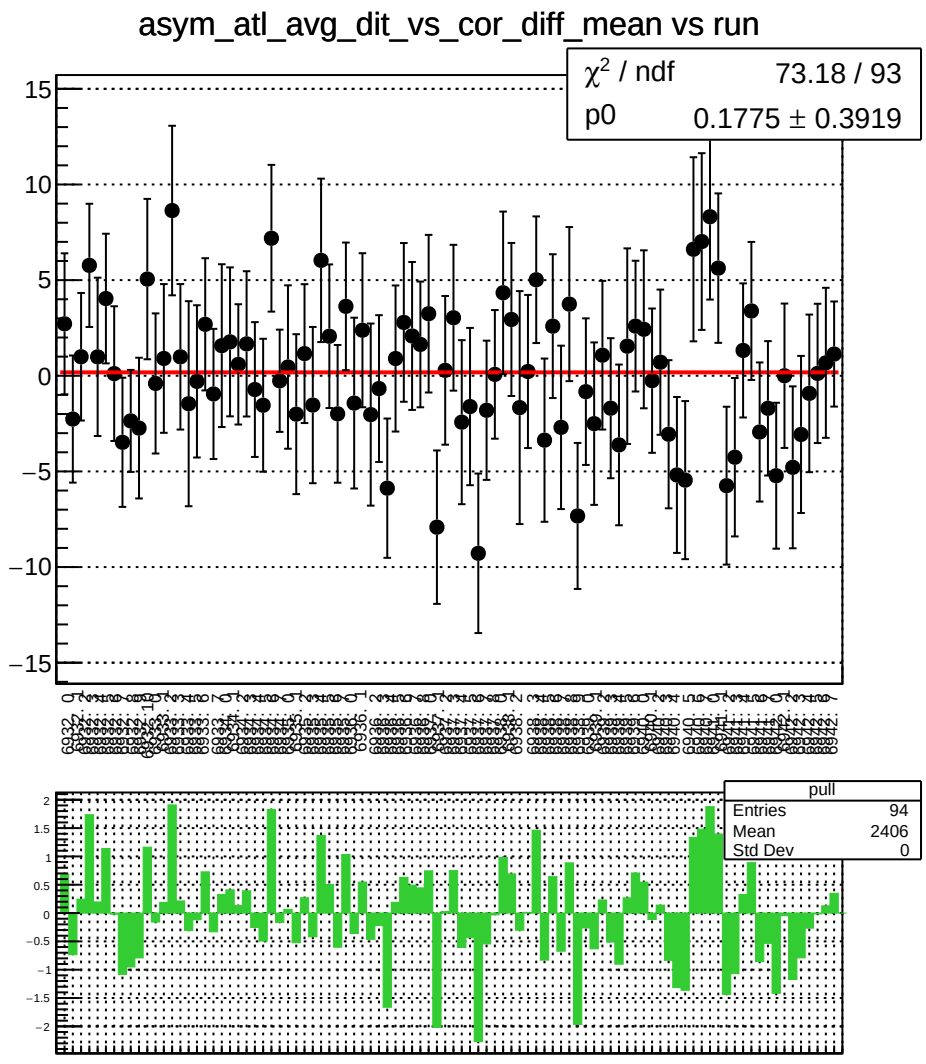

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 85.03 / 93
p0 −7024 ± 6897
200
100
0
−100
−200
pull
Entries 94
Mean 632.2
Std Dev 0
2
1
0
−1
−2

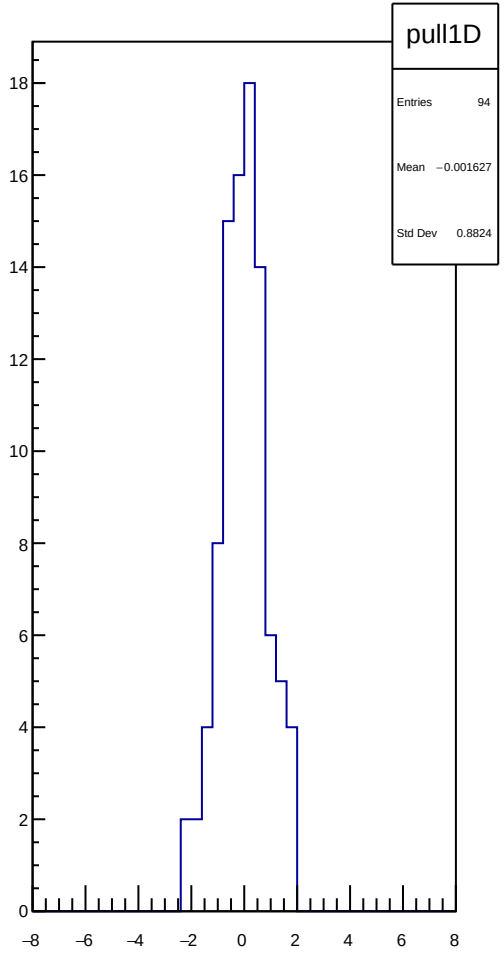

pull1D
Entries 94
Mean 0.004072
Std Dev 0.9511
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

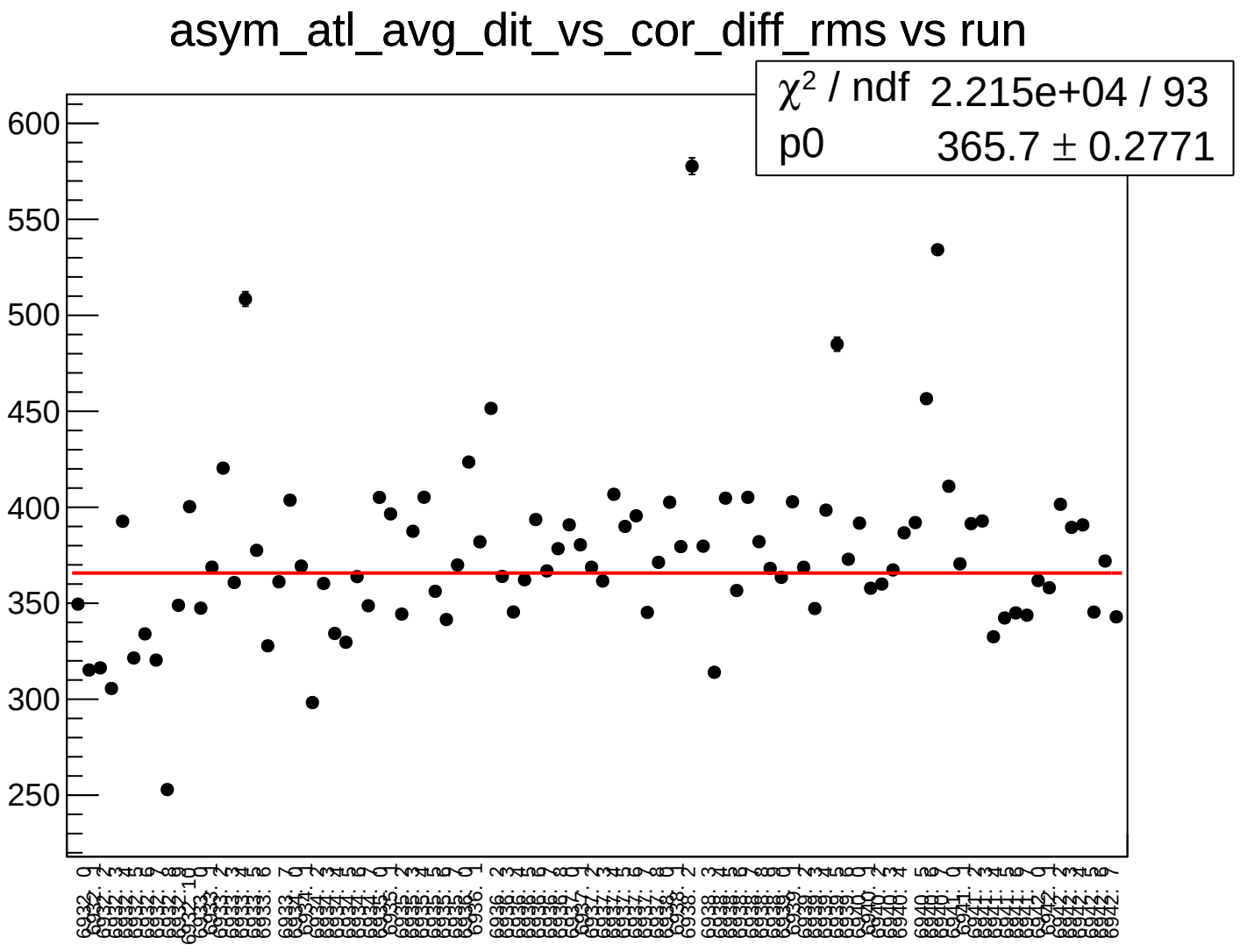

asym_atl_avg_rms vs run
χ² / ndf 5242 / 93
p0 6467 ± 4.877
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

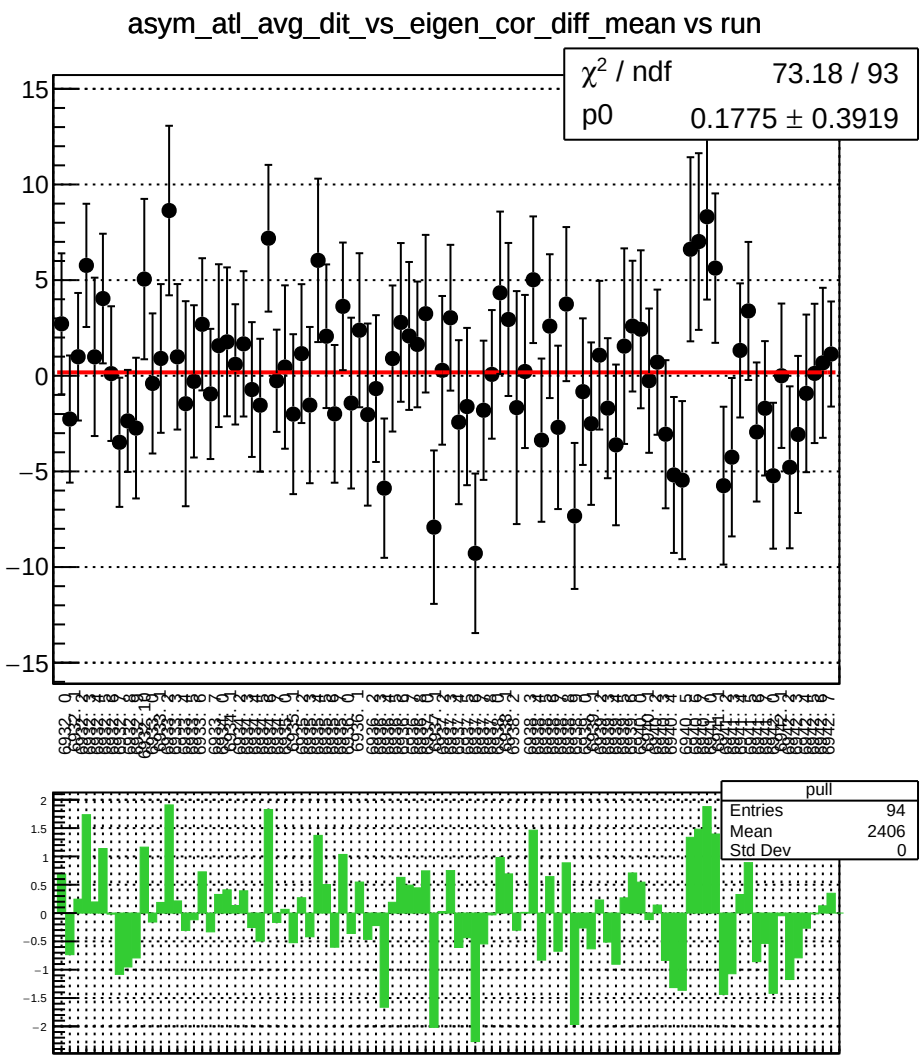

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.42 / 93
p0 −3.623e−14 ± 2.323e−13
pull
Entries 94
Mean 17.19
Std Dev 44.4
pull1D
Entries 94
Mean 0.06738
Std Dev 0.9565

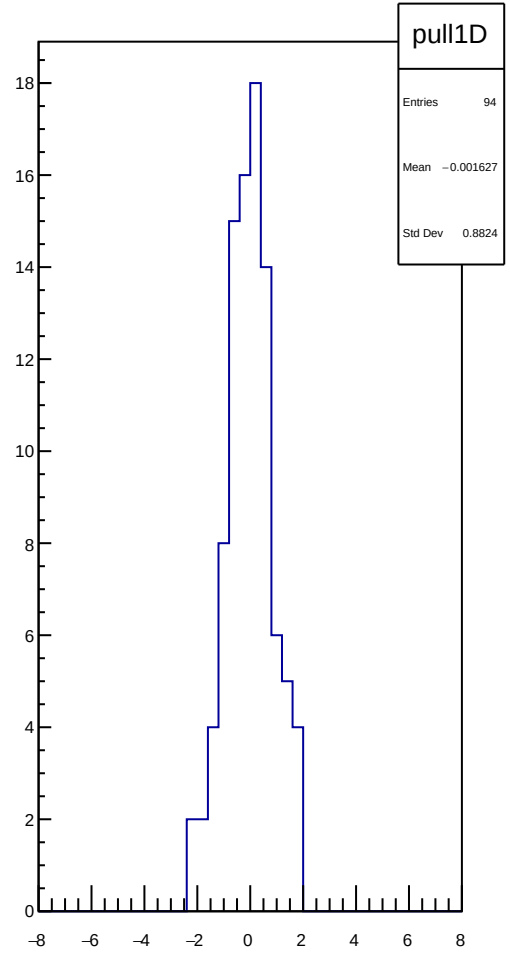

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.008e+06 / 93
p0 1.428e−10 ± 1.643e−13
1.2
1
0.8
0.6
0.4
0.2
0

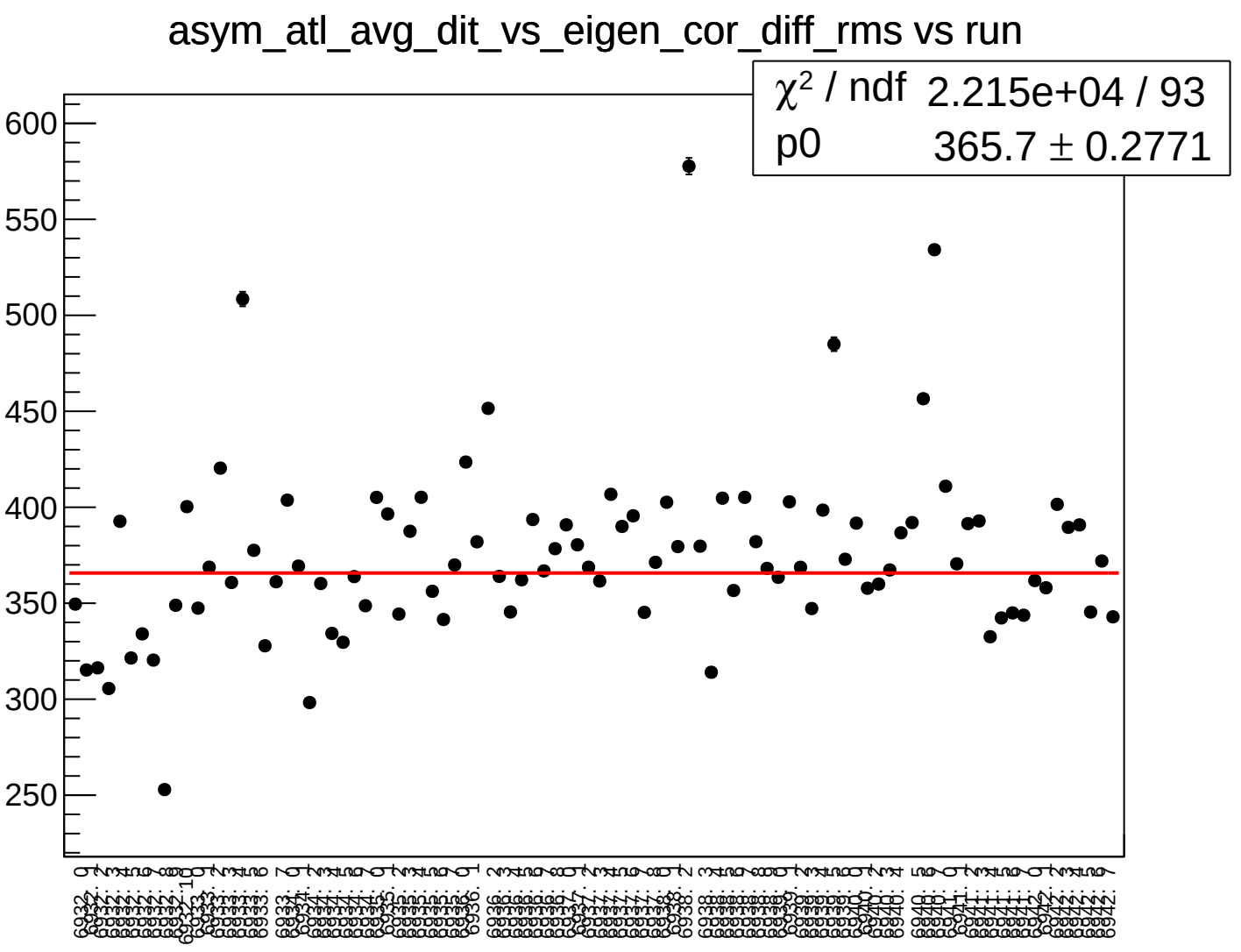

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.18 / 93
p0 0.1775 ± 0.3919
pull
Entries 94
Mean 2406
Std Dev 0

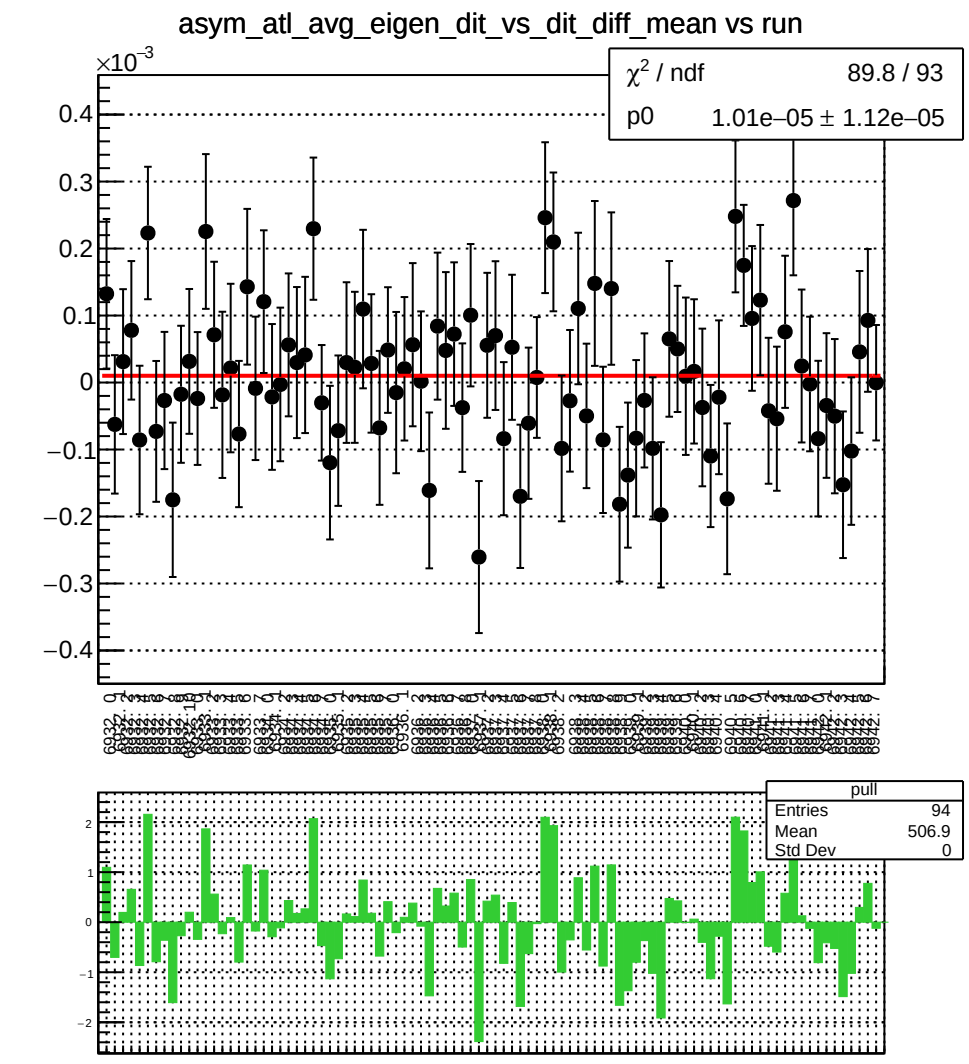

pull1D
Entries 94
Mean −0.001627
Std Dev 0.8824

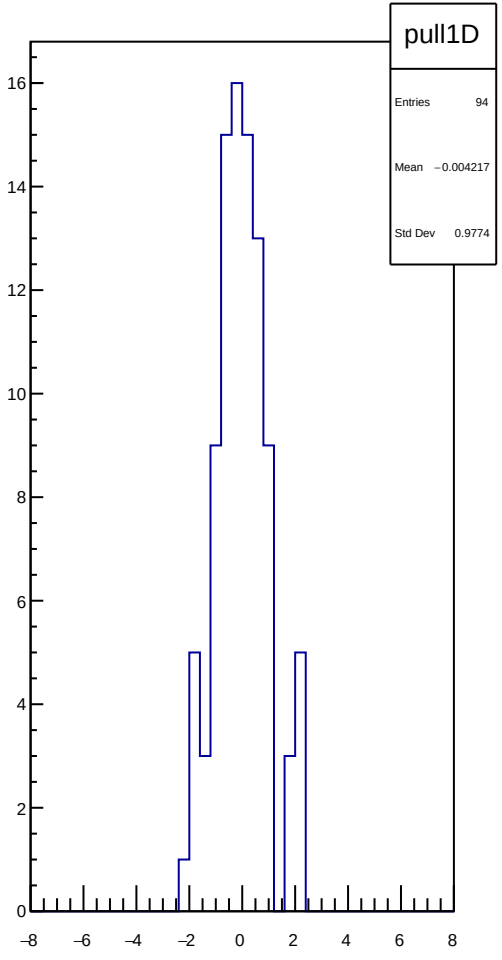

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 93
p0 365.7 ± 0.2771
600
550
500
450
400
350
300
250

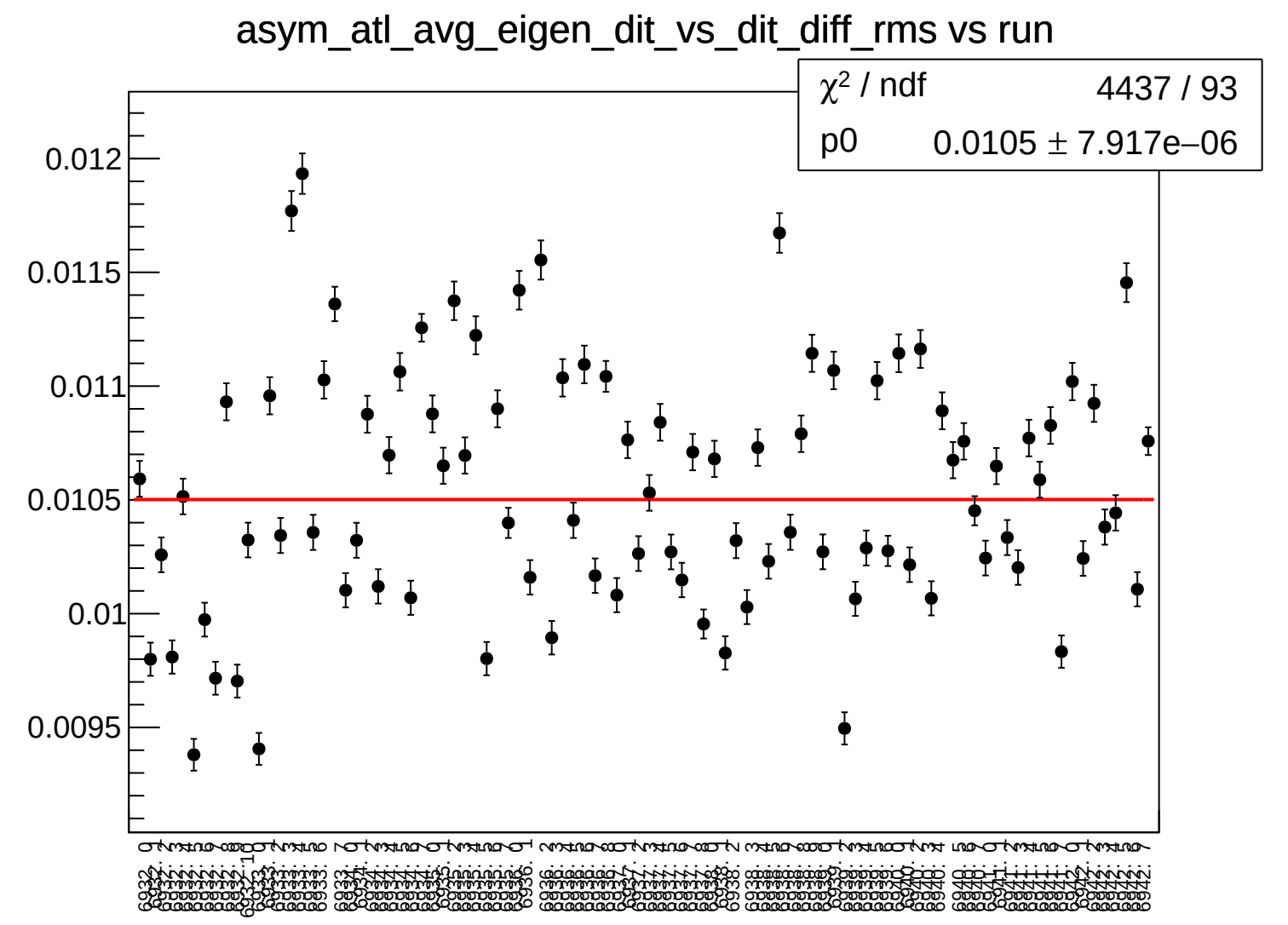

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.18 / 93
p0 0.1775 ± 0.3919
pull
Entries 94
Mean 2406
Std Dev 0


pull1D
Entries 94
Mean −0.001627
Std Dev 0.8824

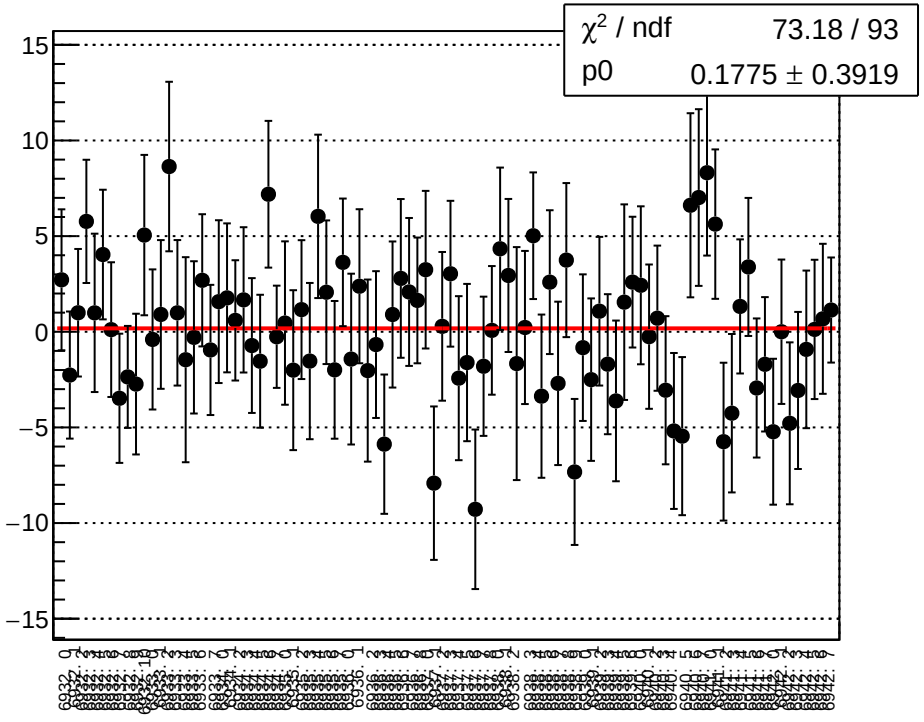

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 93
p0 365.7 ± 0.2771
600
550
500
450
400
350
300
250

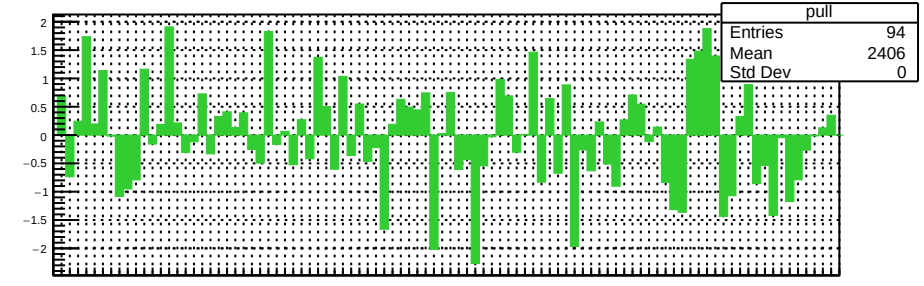

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.8 / 93
p0 1.01e−05 ± 1.12e−05
pull
Entries 94
Mean 506.9
Std Dev 0

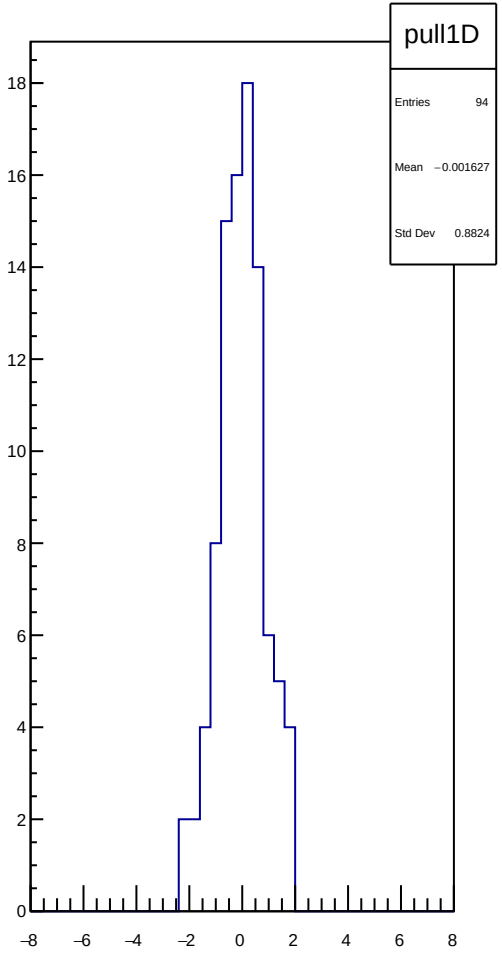

pull1D
Entries 94
Mean −0.004217
Std Dev 0.9774

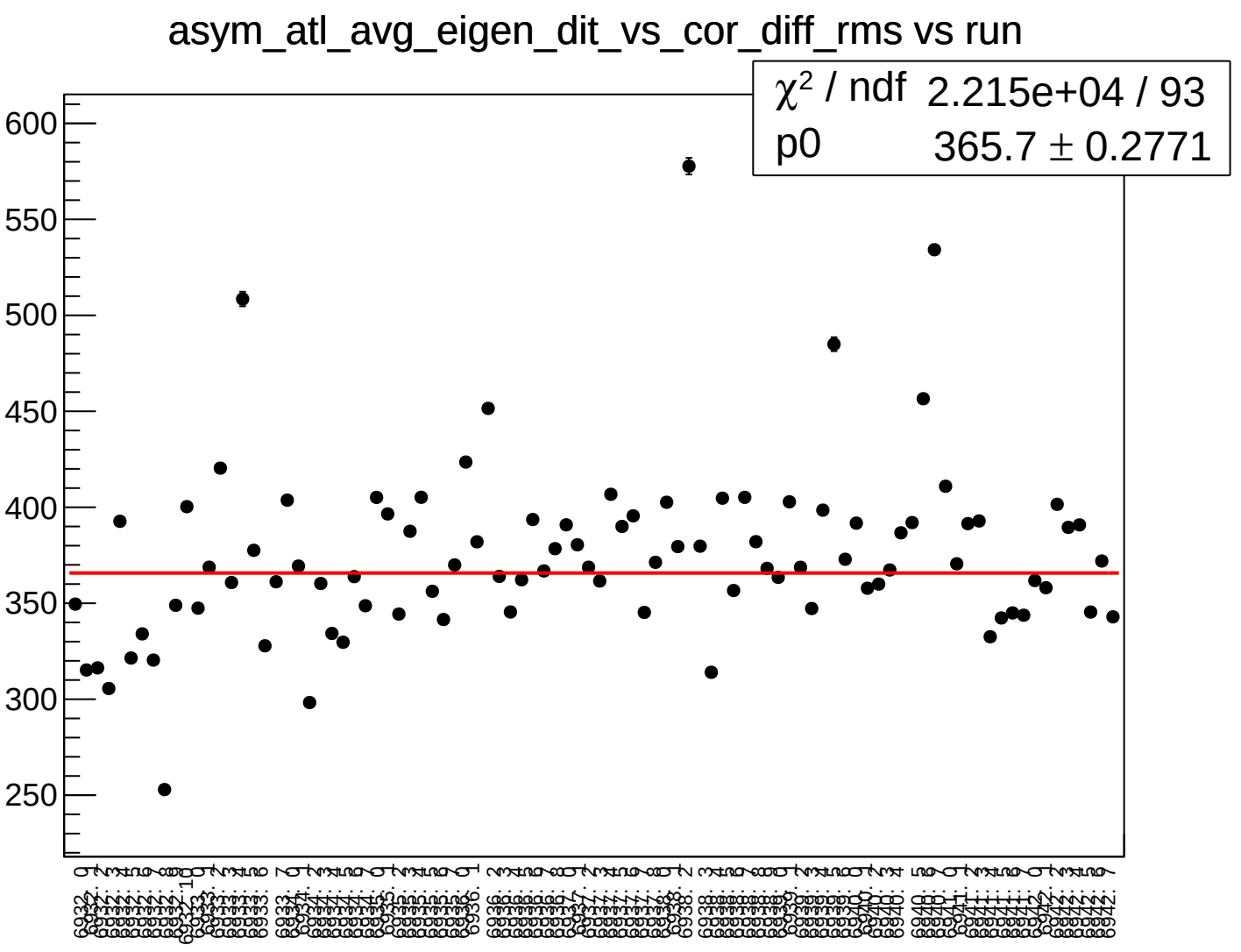

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4437 / 93
p0 0.0105 ± 7.917e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095

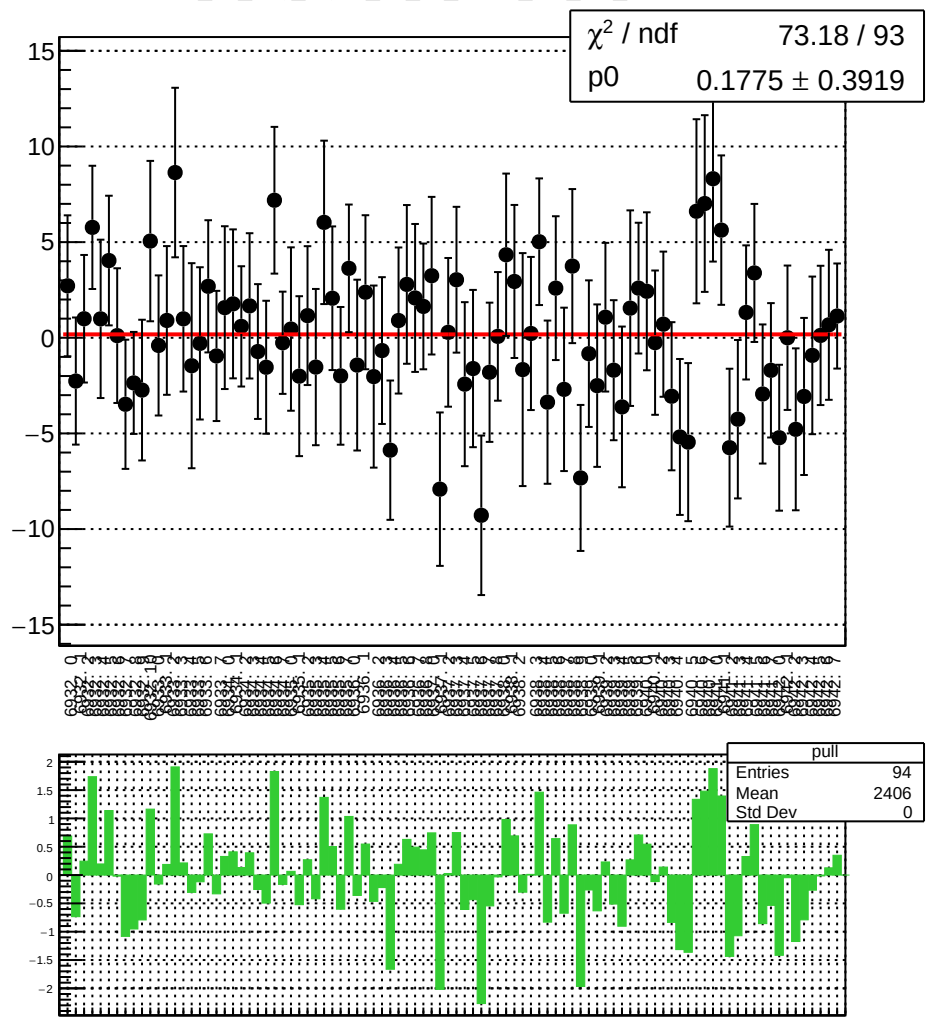
asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run

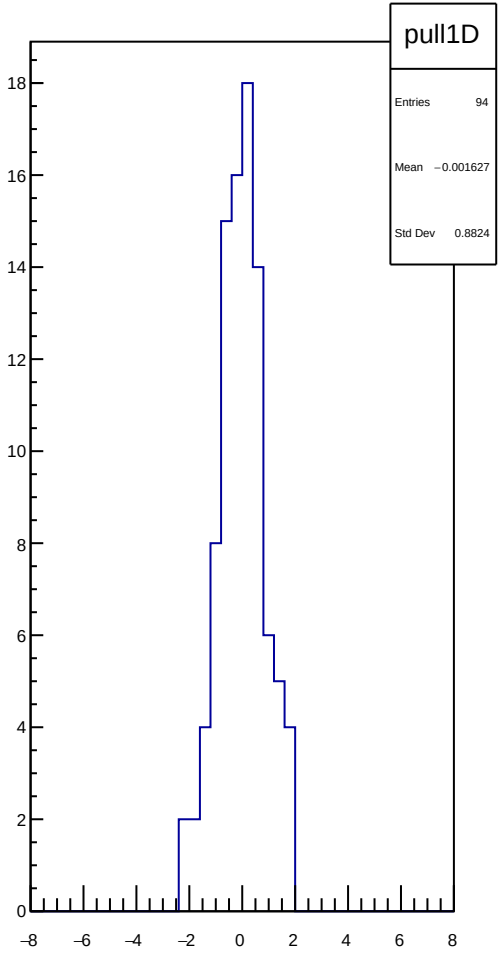


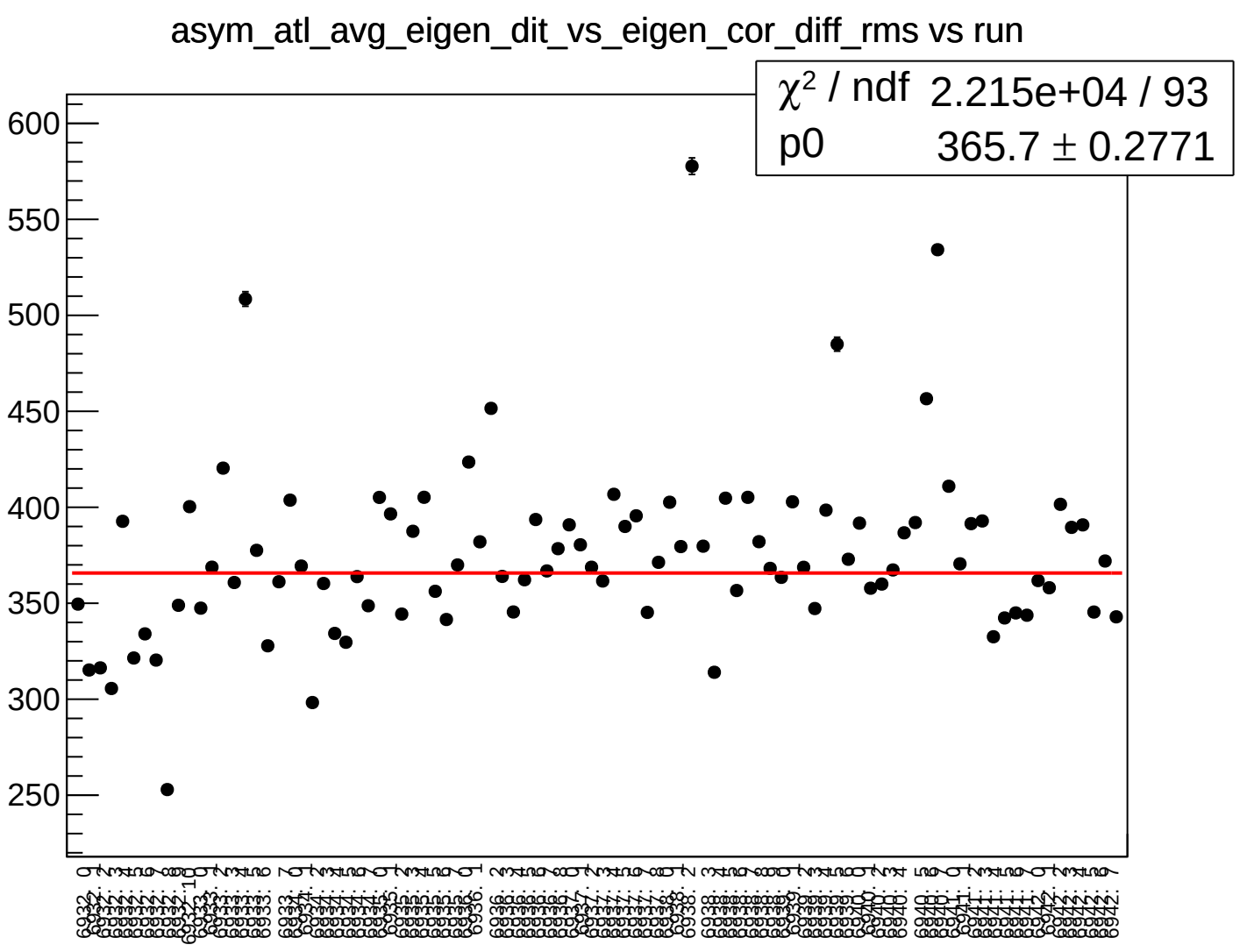


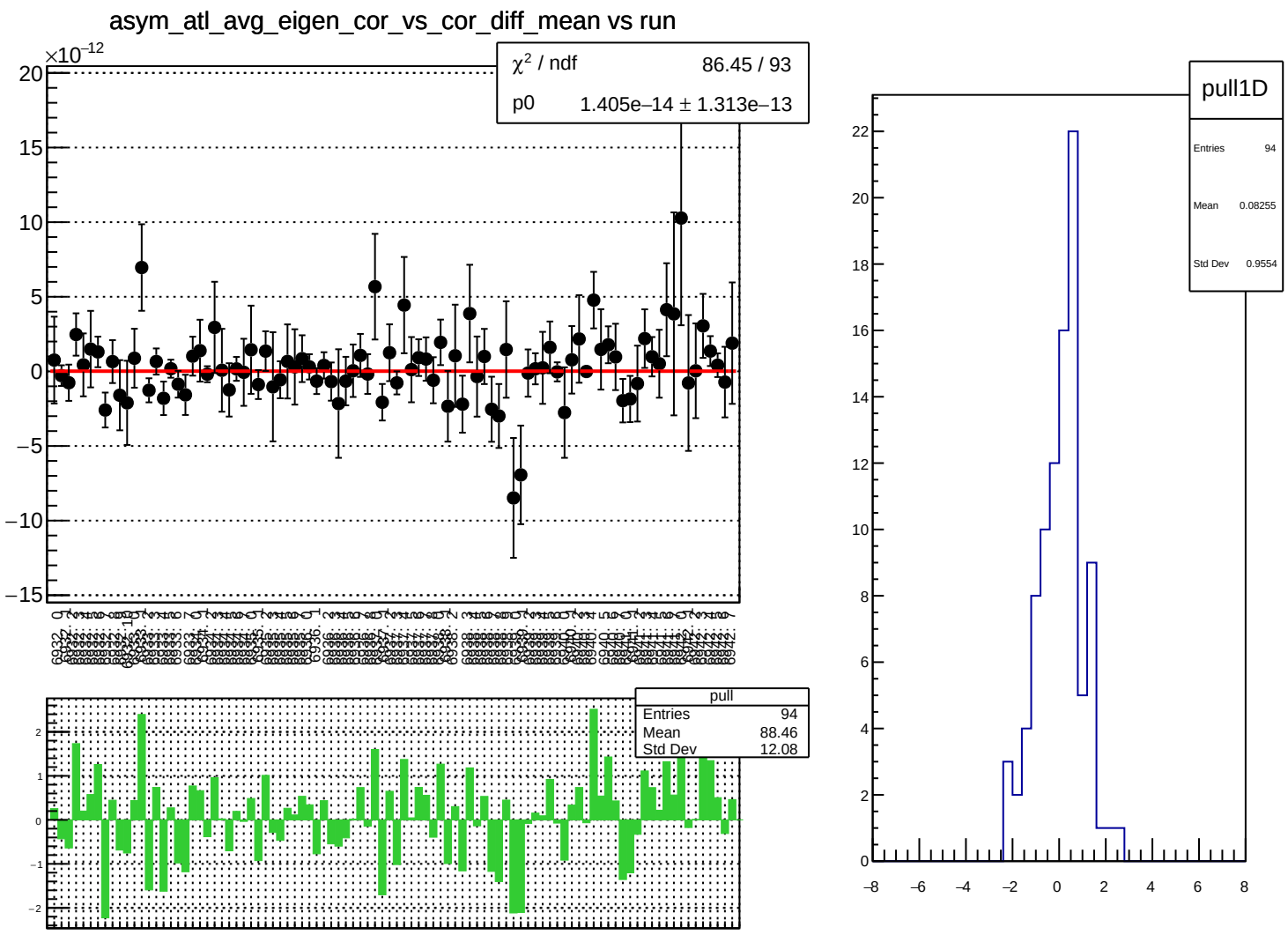


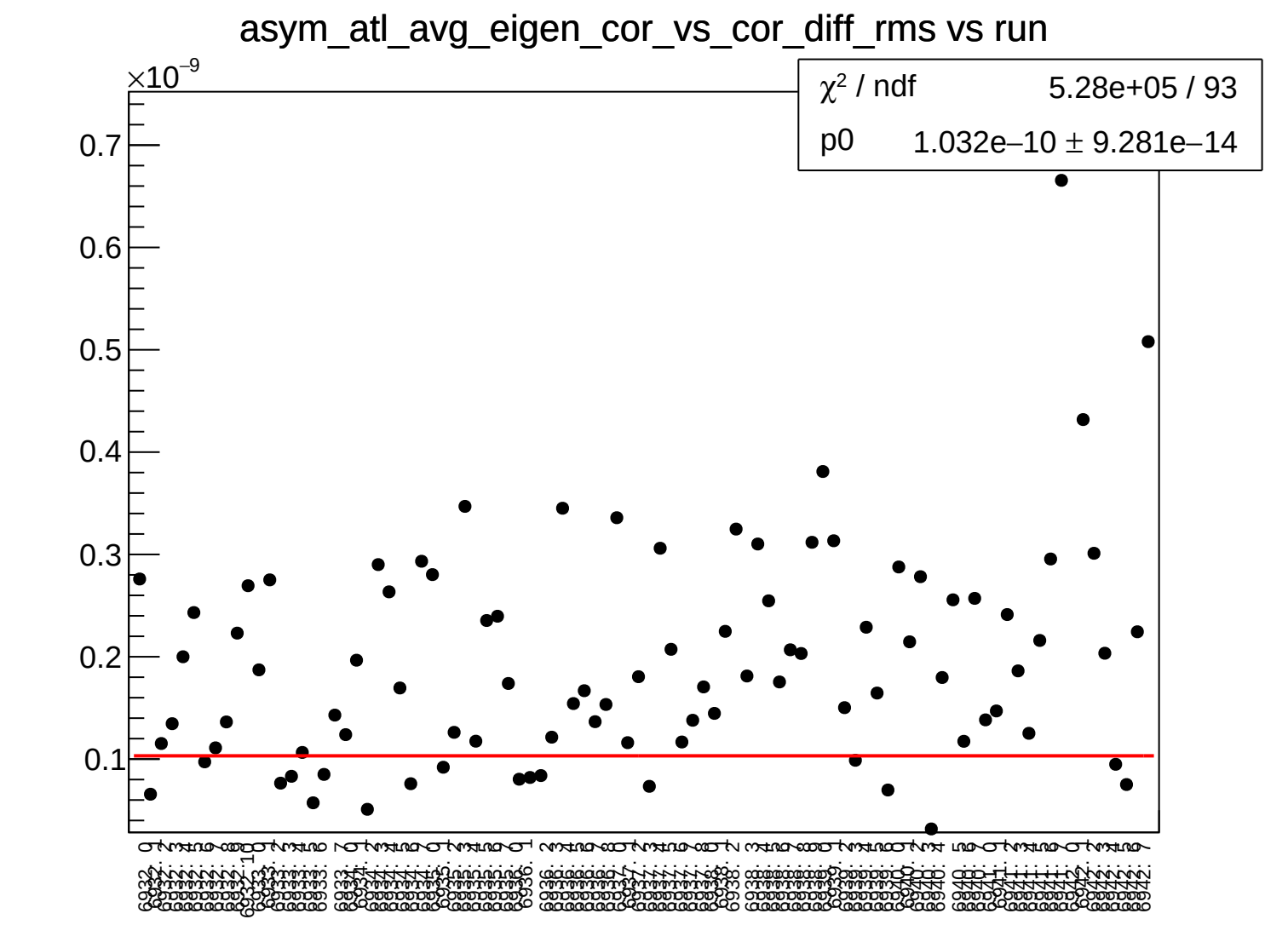

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 93
p0 365.7 ± 0.2771
600
550
500
450
400
350
300
250

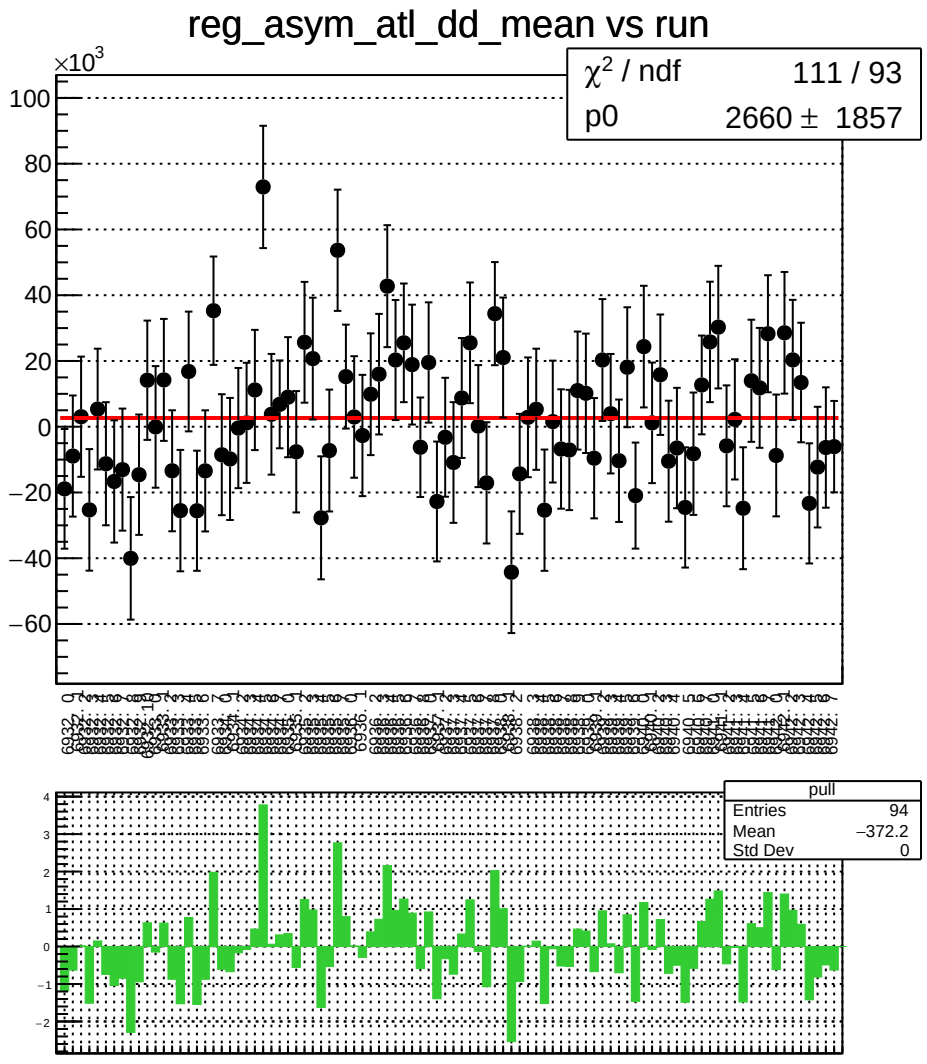

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.18 / 93
p0 0.1775 ± 0.3919
pull
Entries 94
Mean 2406
Std Dev 0

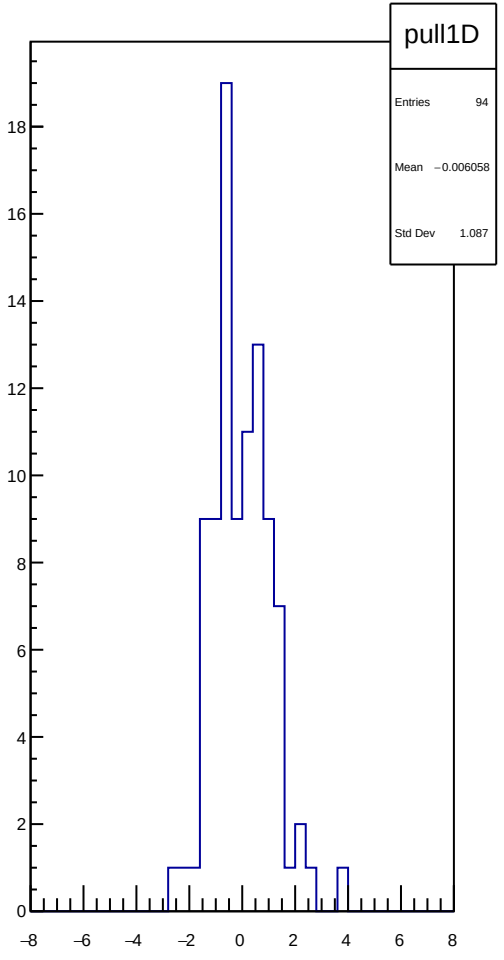

pull1D
Entries 94
Mean −0.001627
Std Dev 0.8824

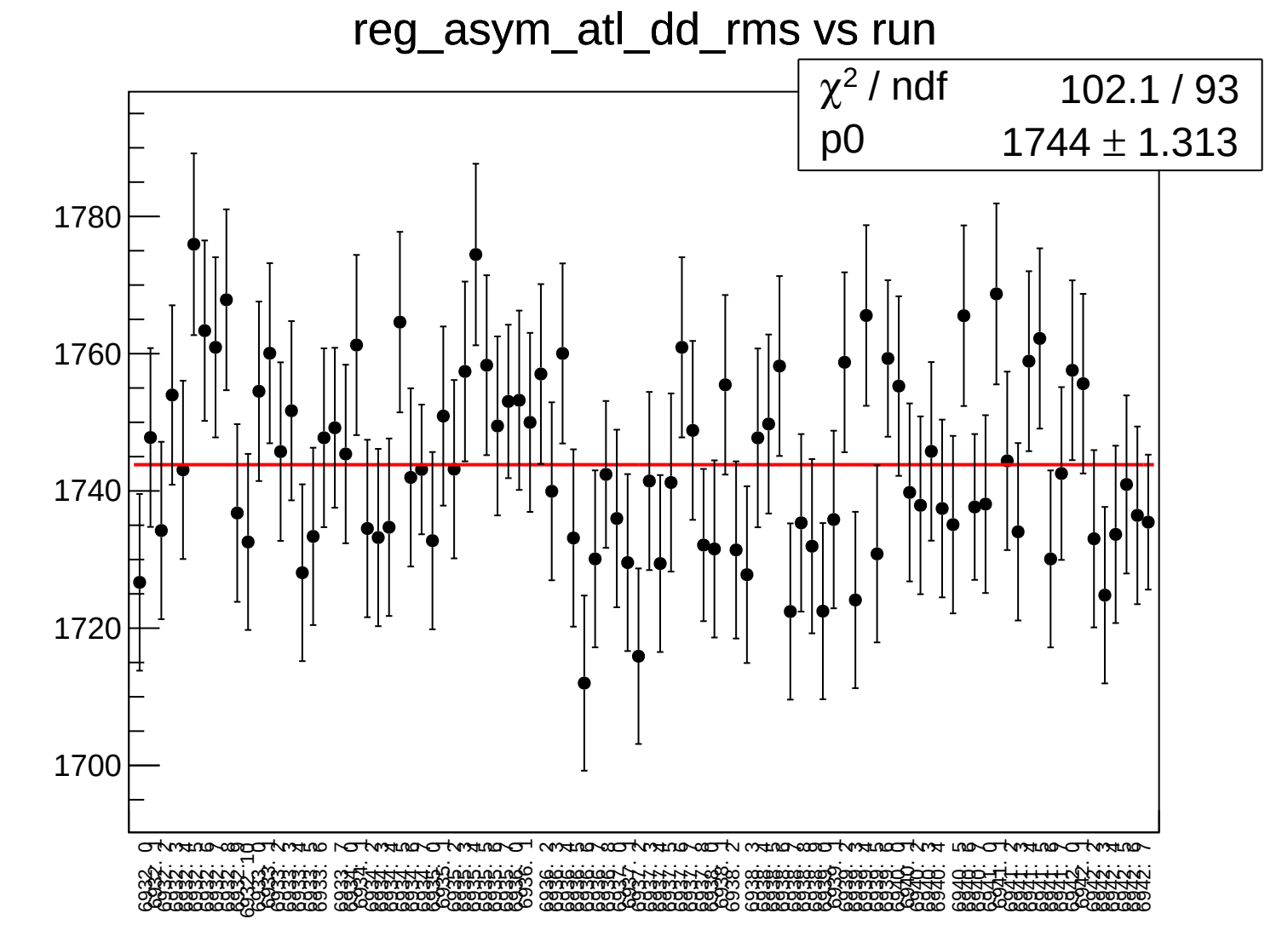

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.215e+04 / 93
p0 365.7 ± 0.2771
600
550
500
450
400
350
300
250

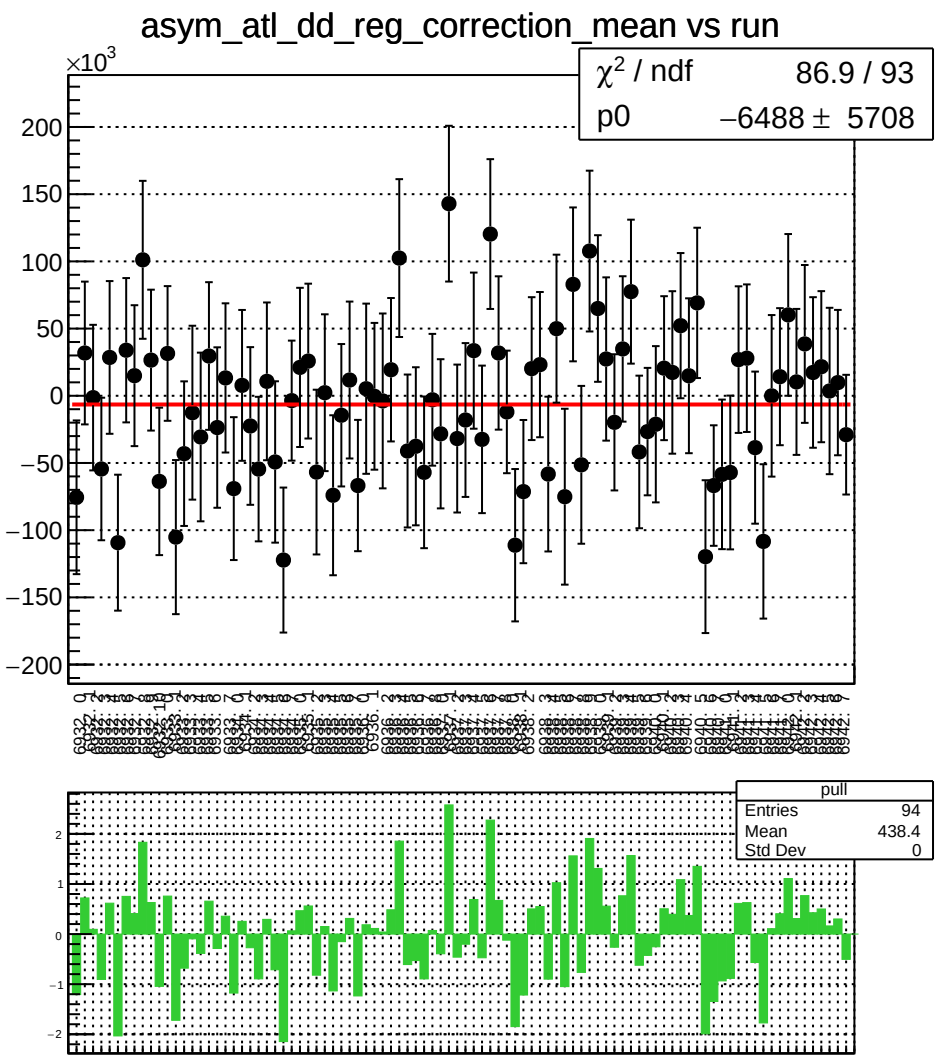

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.45 / 93
p0 1.405e−14 ± 1.313e−13
pull
Entries 94
Mean 88.46
Std Dev 12.08
pull1D
Entries 94
Mean 0.08255
Std Dev 0.9554

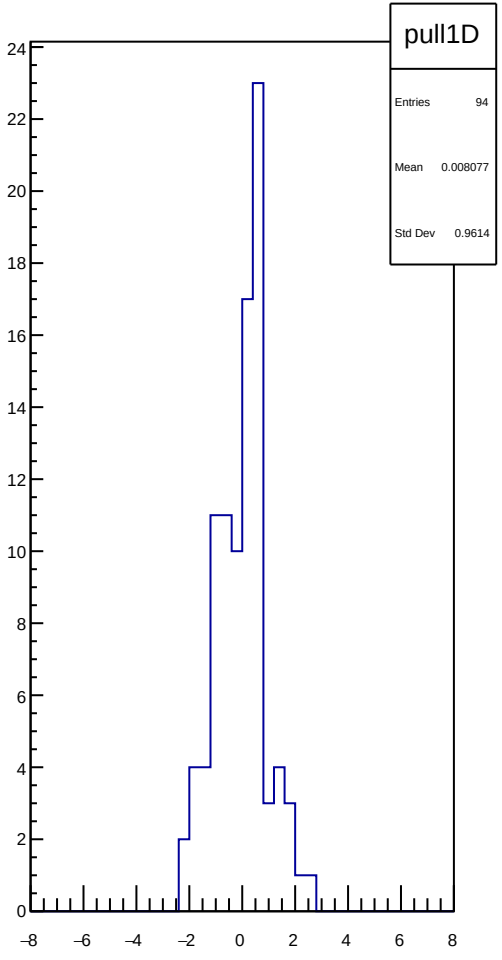

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.28e+05 / 93
p0 1.032e−10 ± 9.281e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

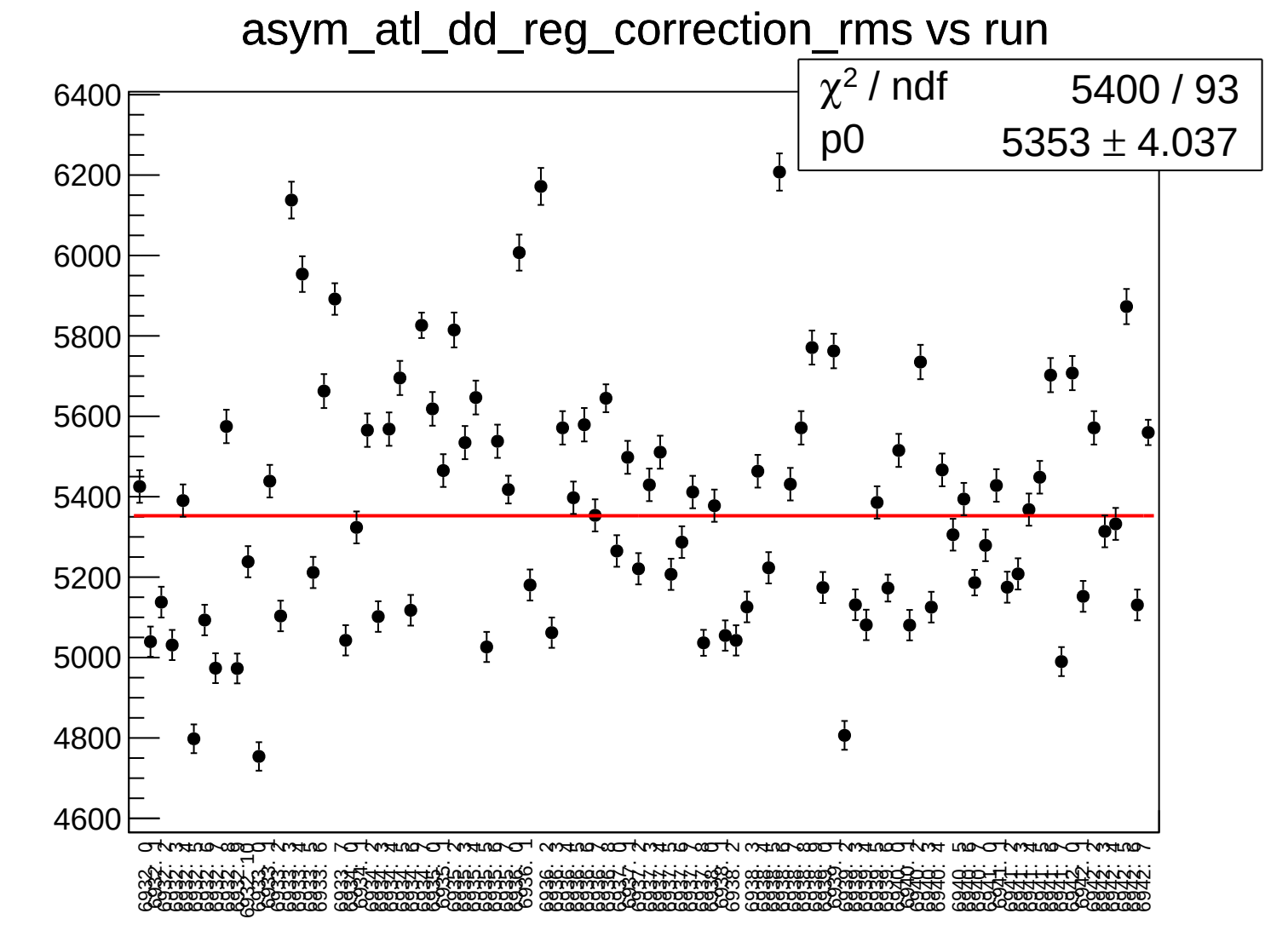

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 111 / 93
p0 2660 ± 1857
pull
Entries 94
Mean −372.2
Std Dev 0

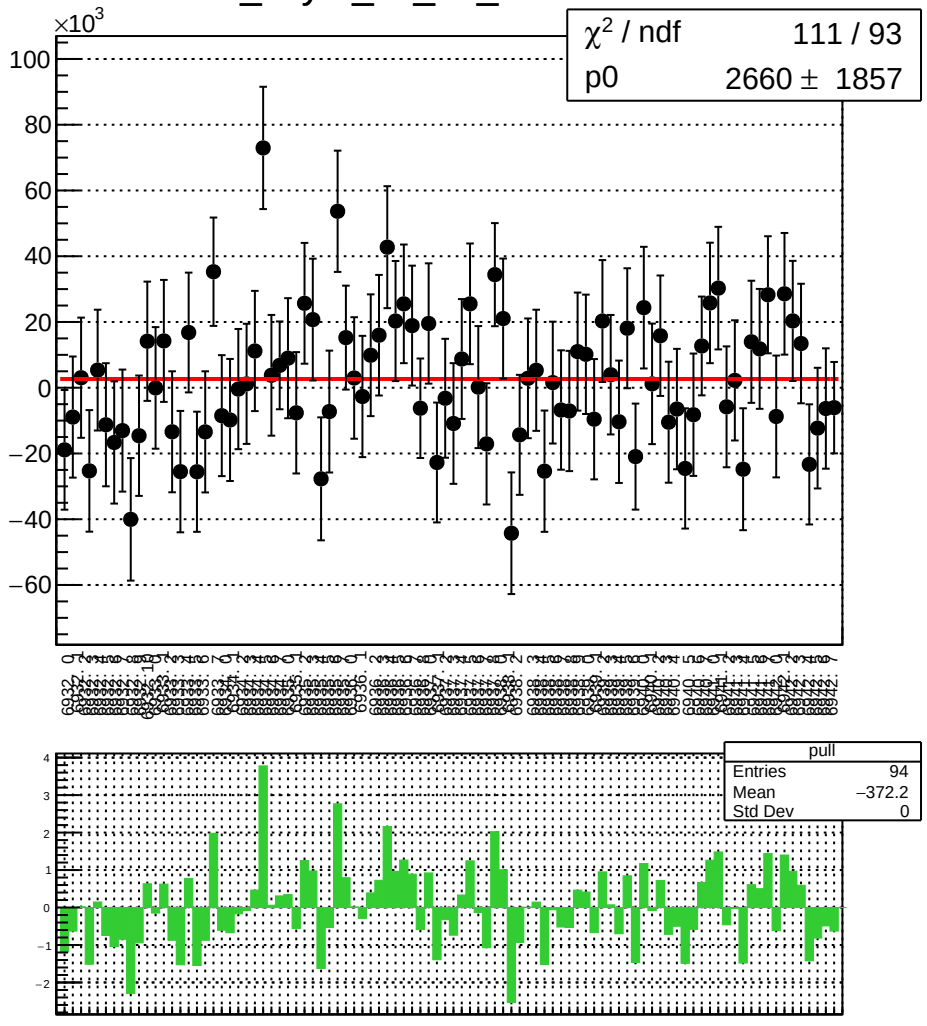

pull1D
Entries 94
Mean −0.006058
Std Dev 1.087

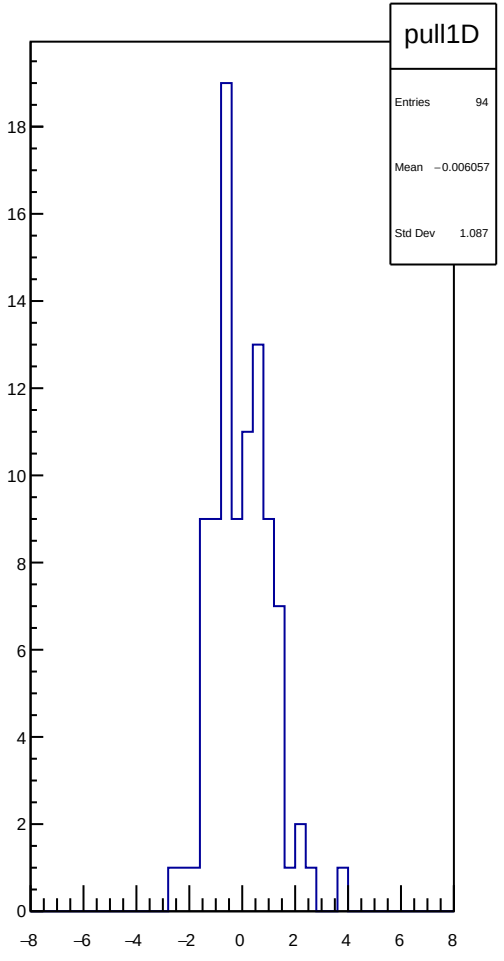

reg_asym_atl_dd_rms vs run
χ² / ndf 102.1 / 93
p0 1744 ± 1.313
1780
1760
1740
1720
1700

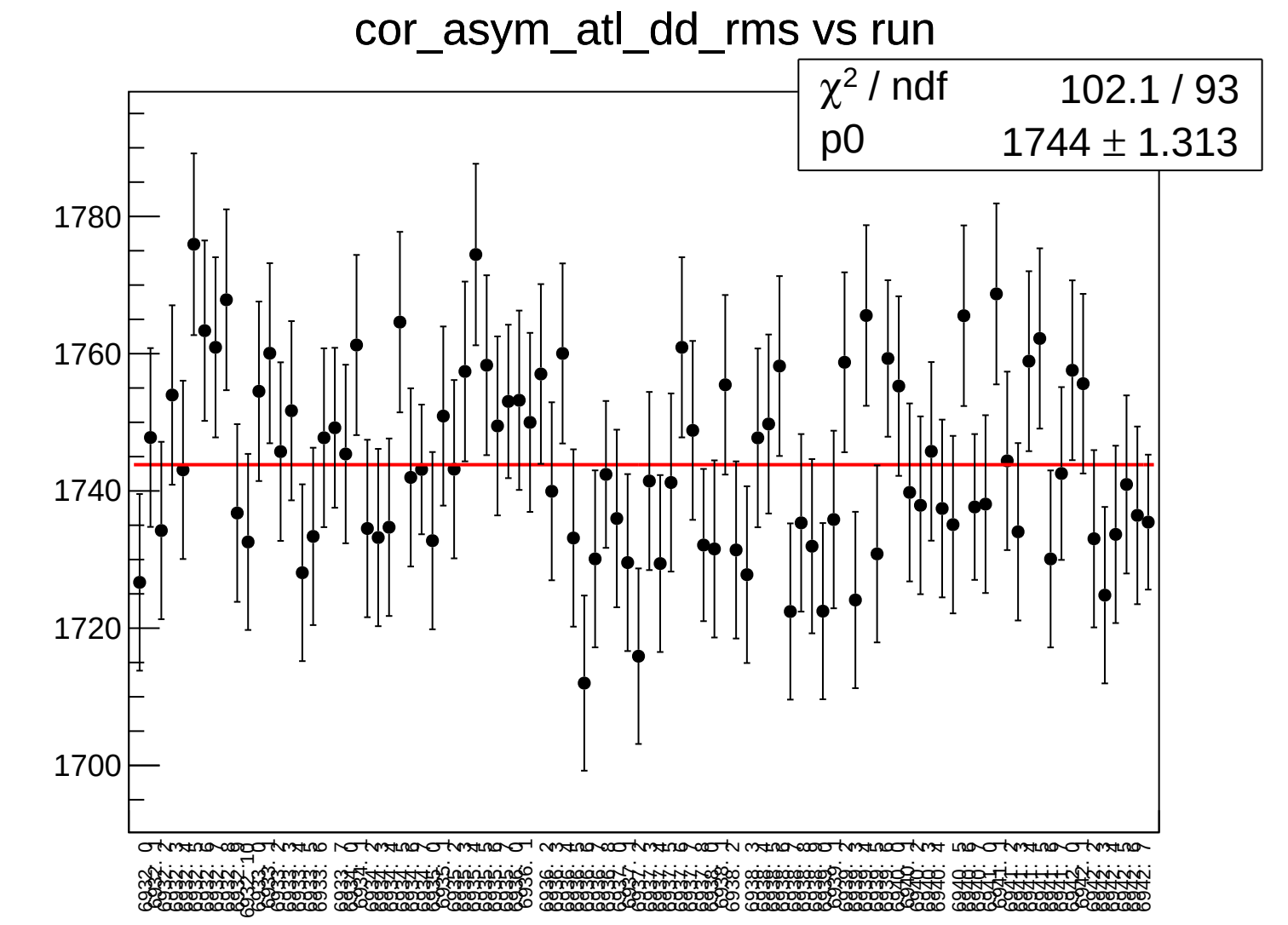

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 −6488 ± 5708
pull
Entries 94
Mean 438.4
Std Dev 0

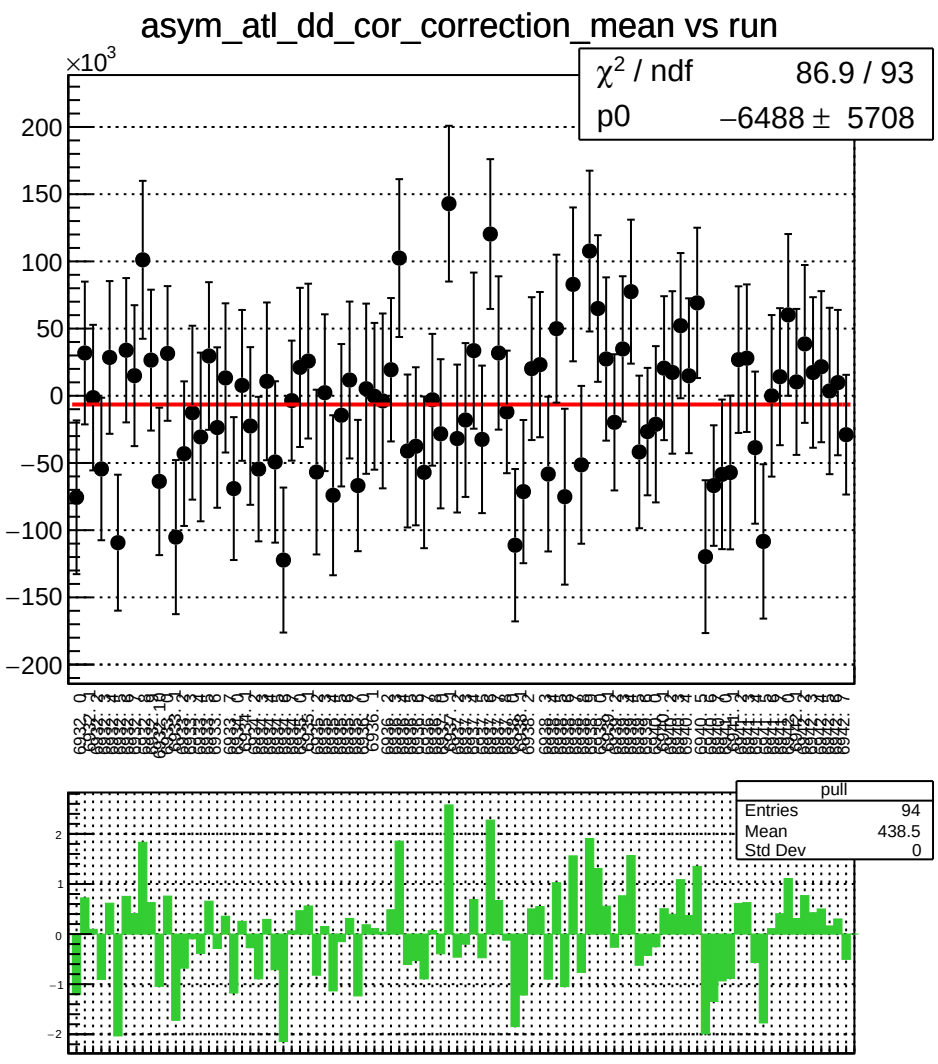

pull1D
Entries 94
Mean 0.008077
Std Dev 0.9614

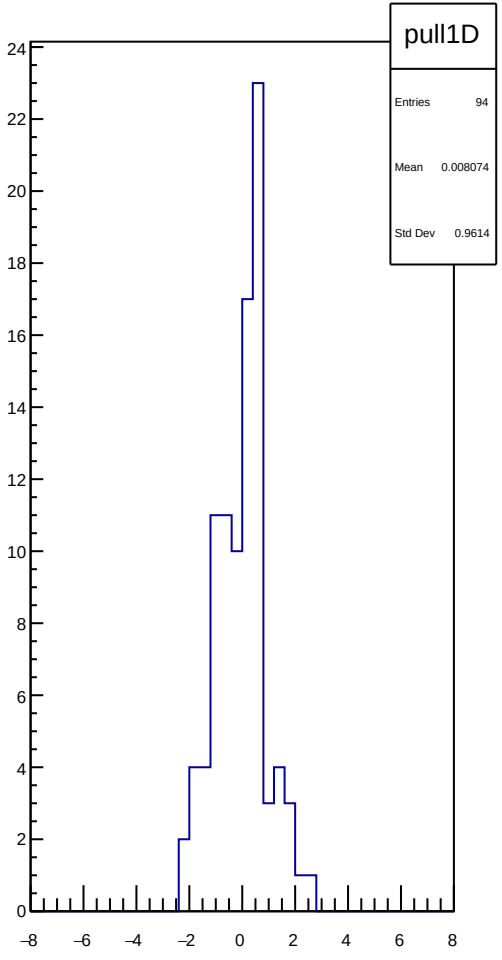

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 5400 / 93
p0 5353 ± 4.037
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

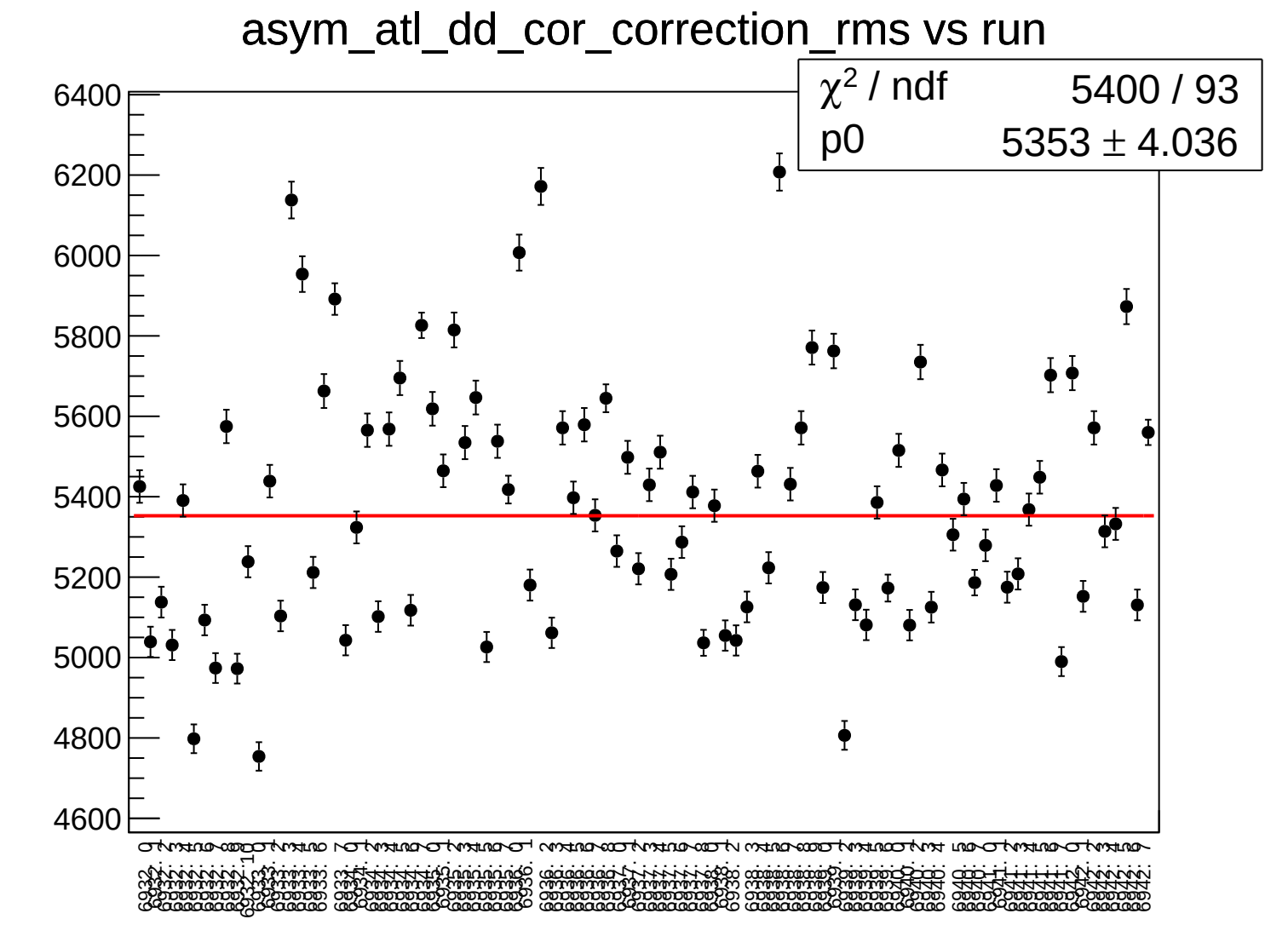

cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 111 / 93
p0 2660 ± 1857
pull
Entries 94
Mean −372.2
Std Dev 0

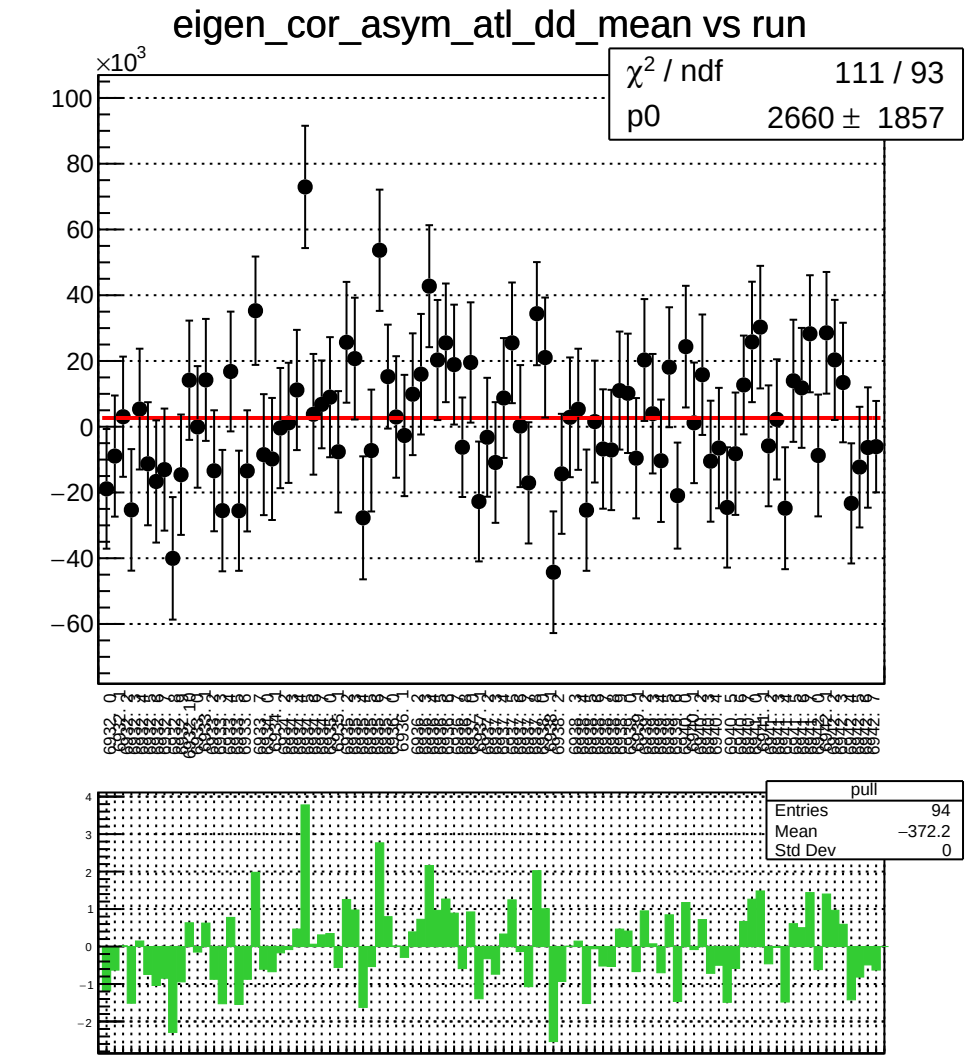

pull1D
Entries 94
Mean −0.006057
Std Dev 1.087

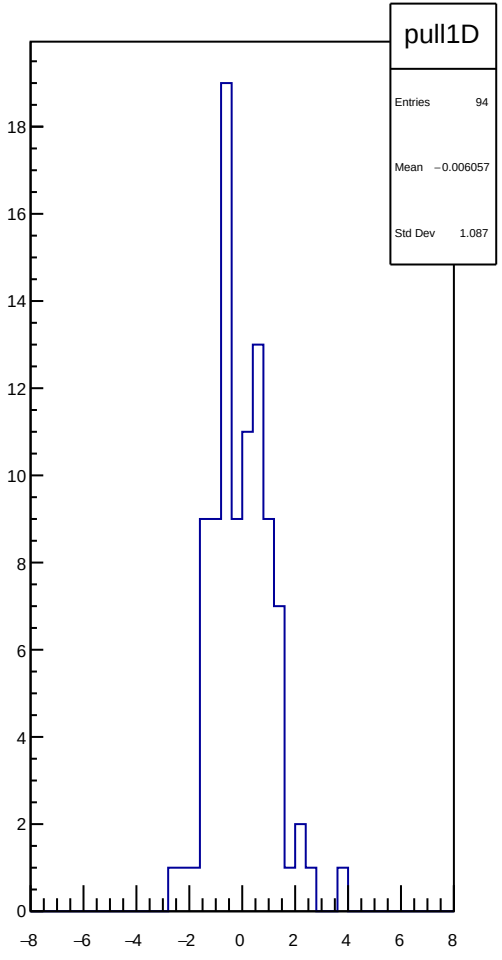

cor_asym_atl_dd_rms vs run
χ^2 / ndf 102.1 / 93
p0 1744 ± 1.313
1780
1760
1740
1720
1700

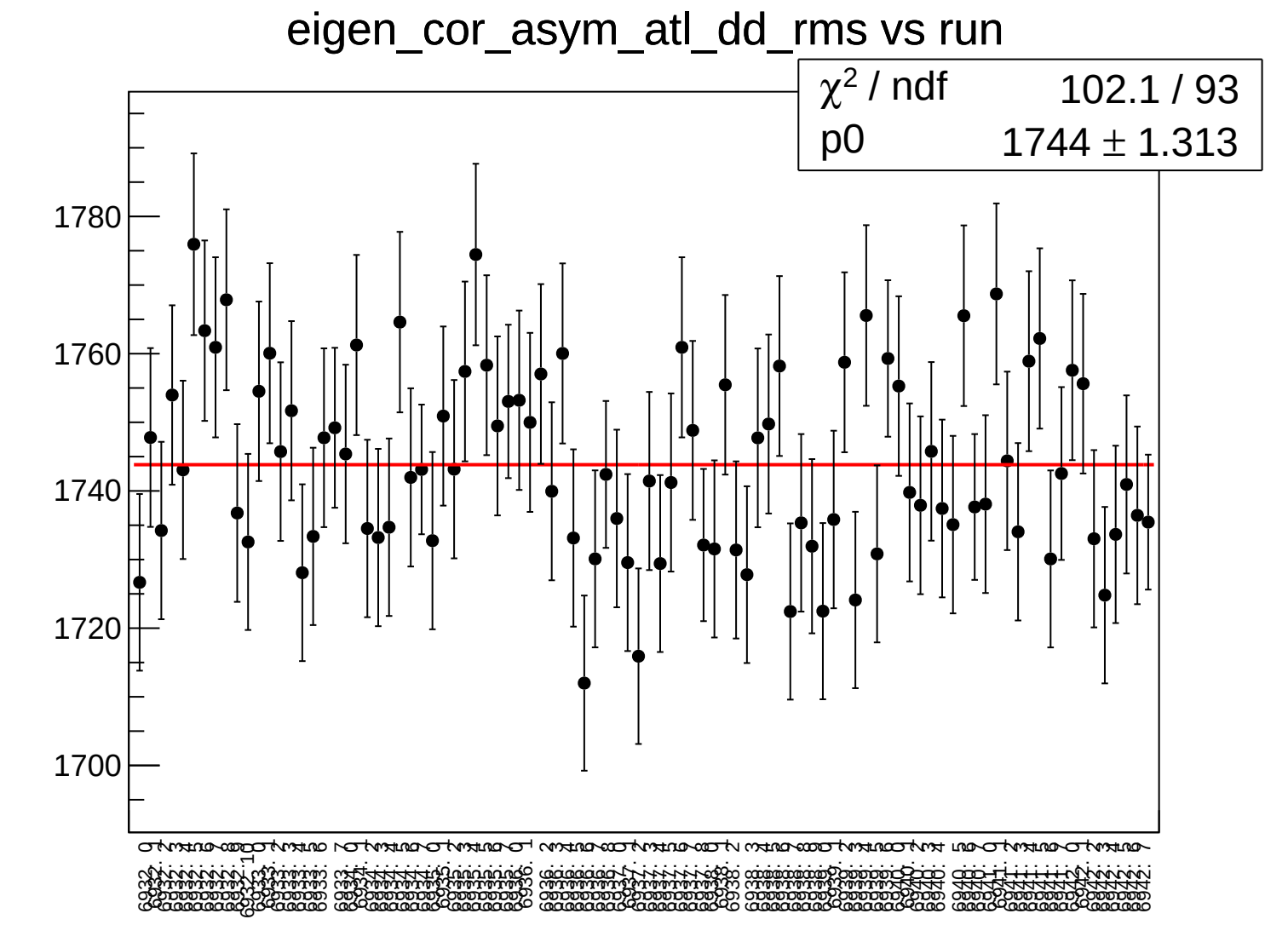

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 −6488 ± 5708
pull
Entries 94
Mean 438.5
Std Dev 0

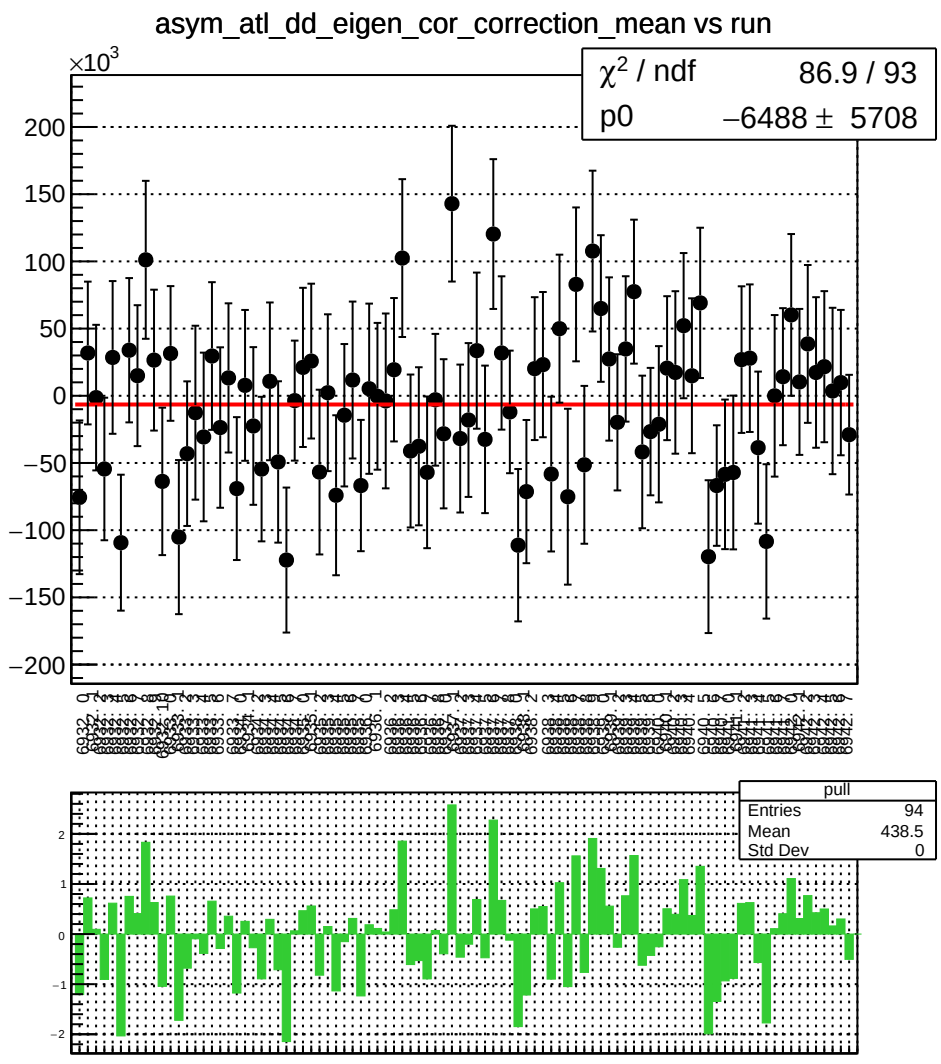

pull1D
Entries 94
Mean 0.008074
Std Dev 0.9614

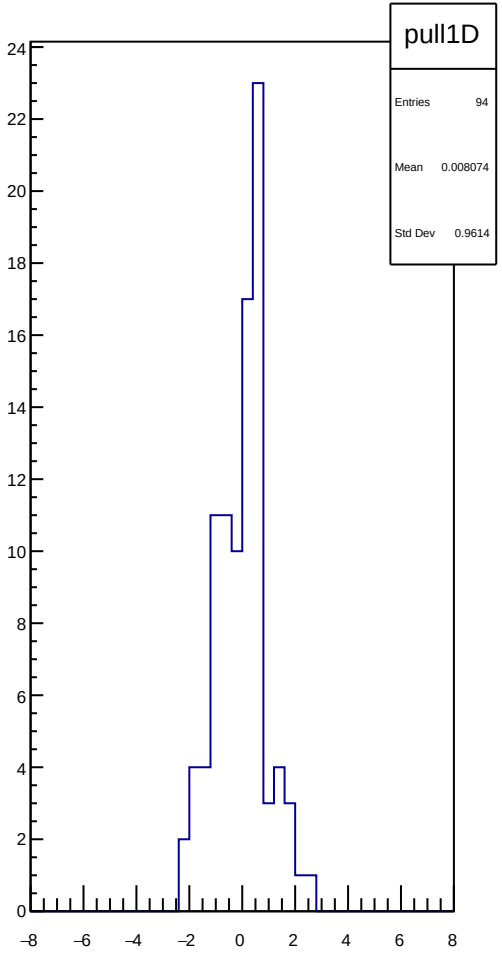

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 5400 / 93
p0 5353 ± 4.036
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

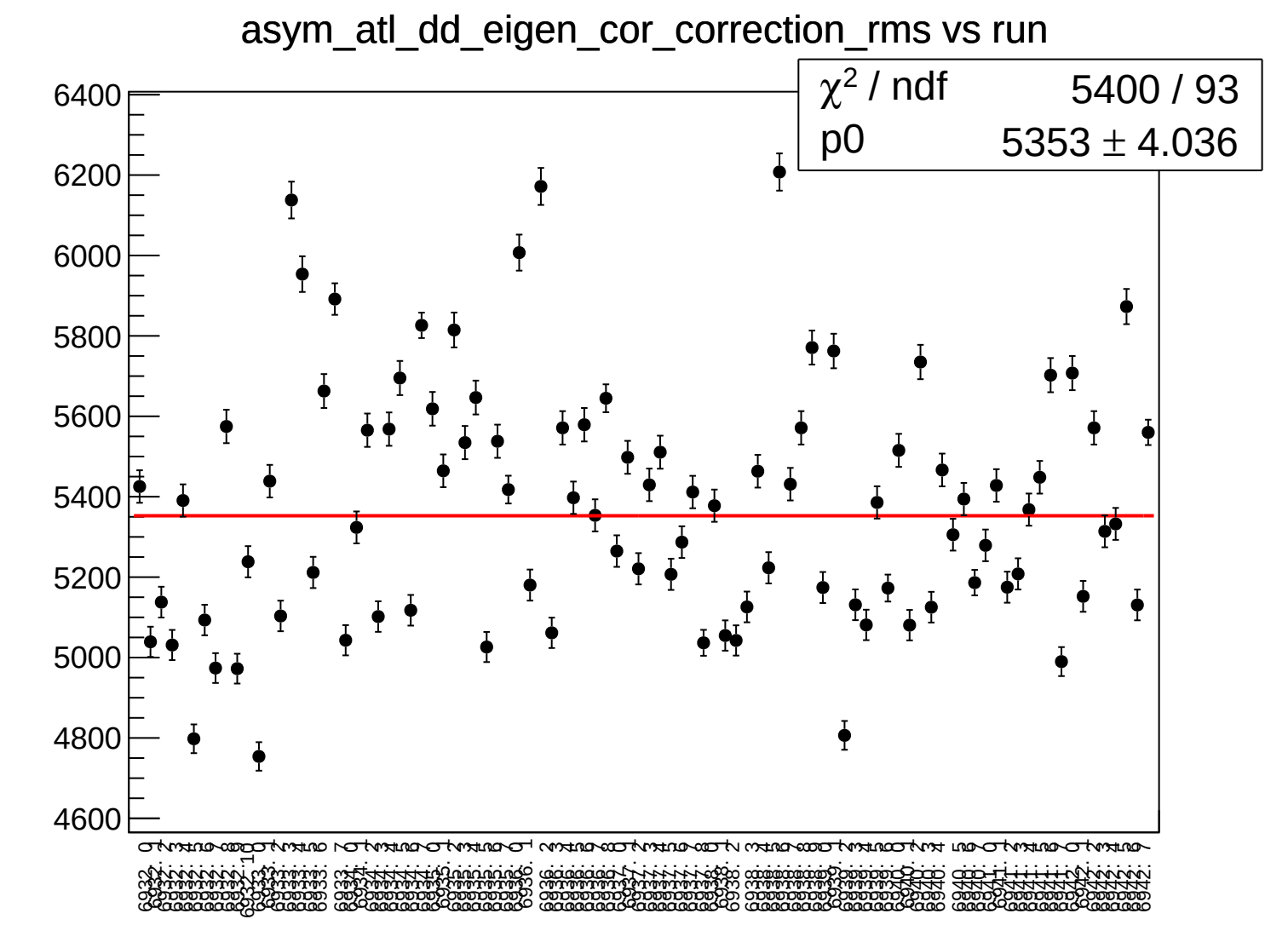

eigen_cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 111 / 93
p0 2660 ± 1857
pull
Entries 94
Mean −372.2
Std Dev 0

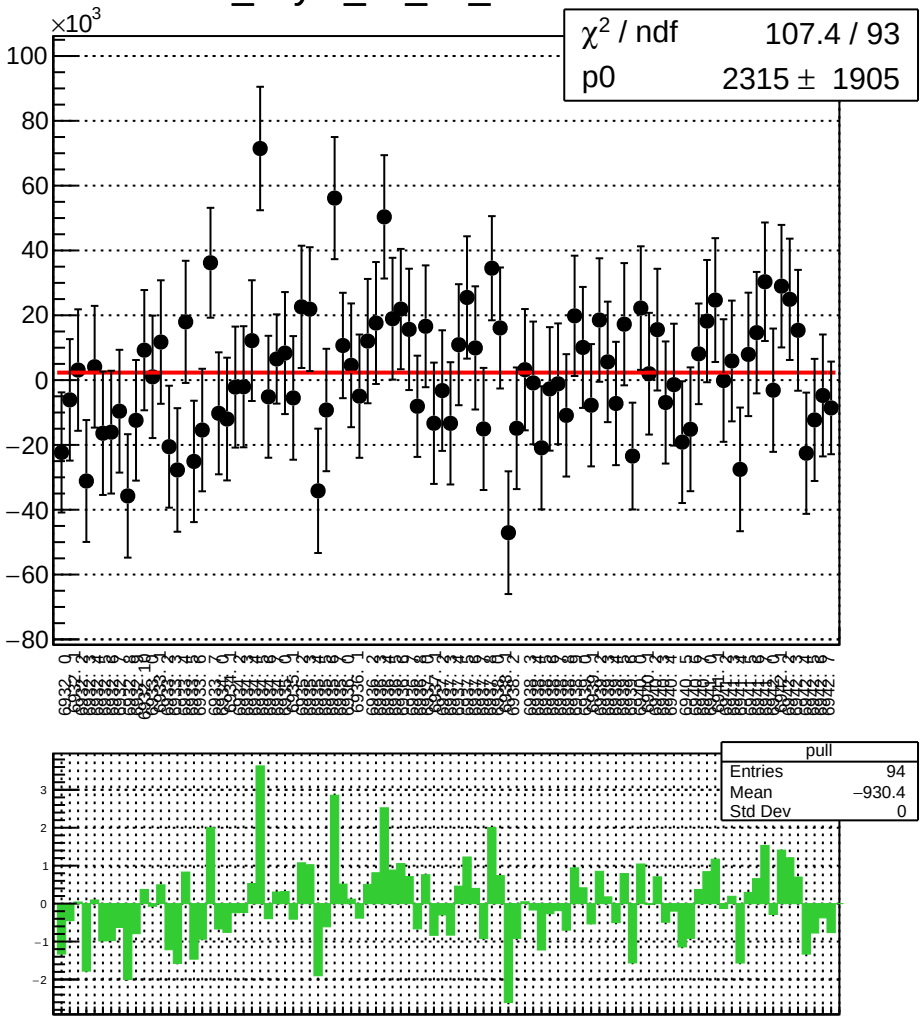

pull1D
Entries 94
Mean −0.006057
Std Dev 1.087

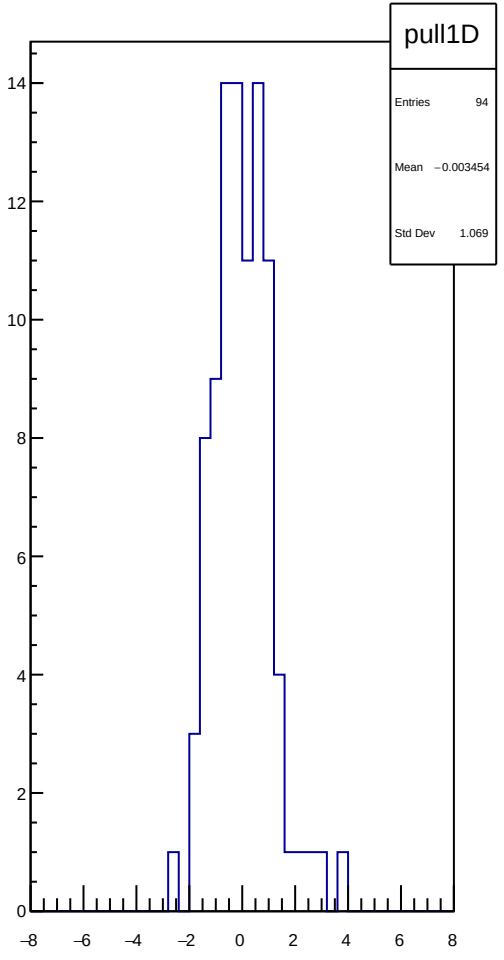

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 102.1 / 93
p0 1744 ± 1.313
1780
1760
1740
1720
1700

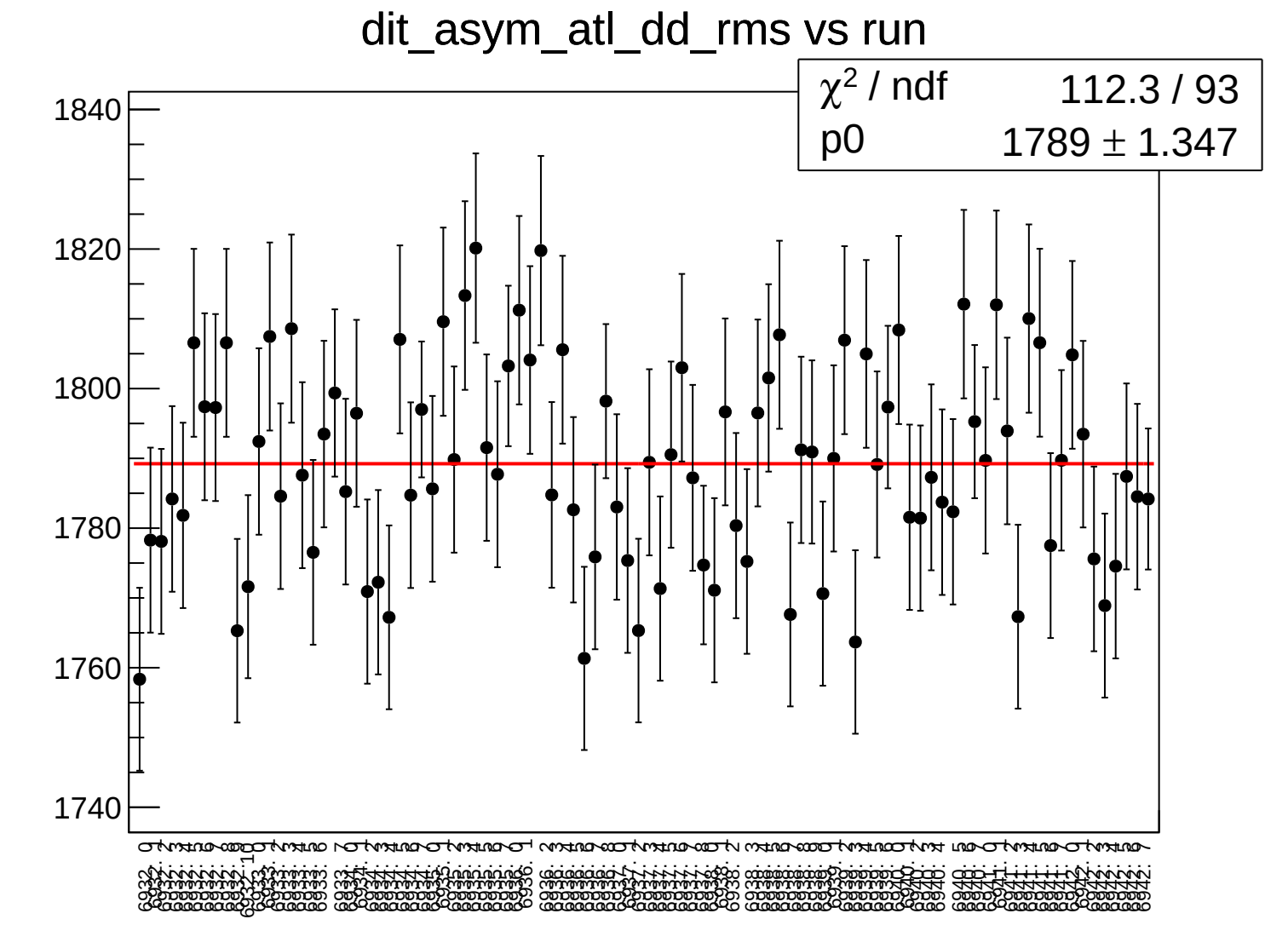

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 −6488 ± 5708
pull
Entries 94
Mean 438.5
Std Dev 0

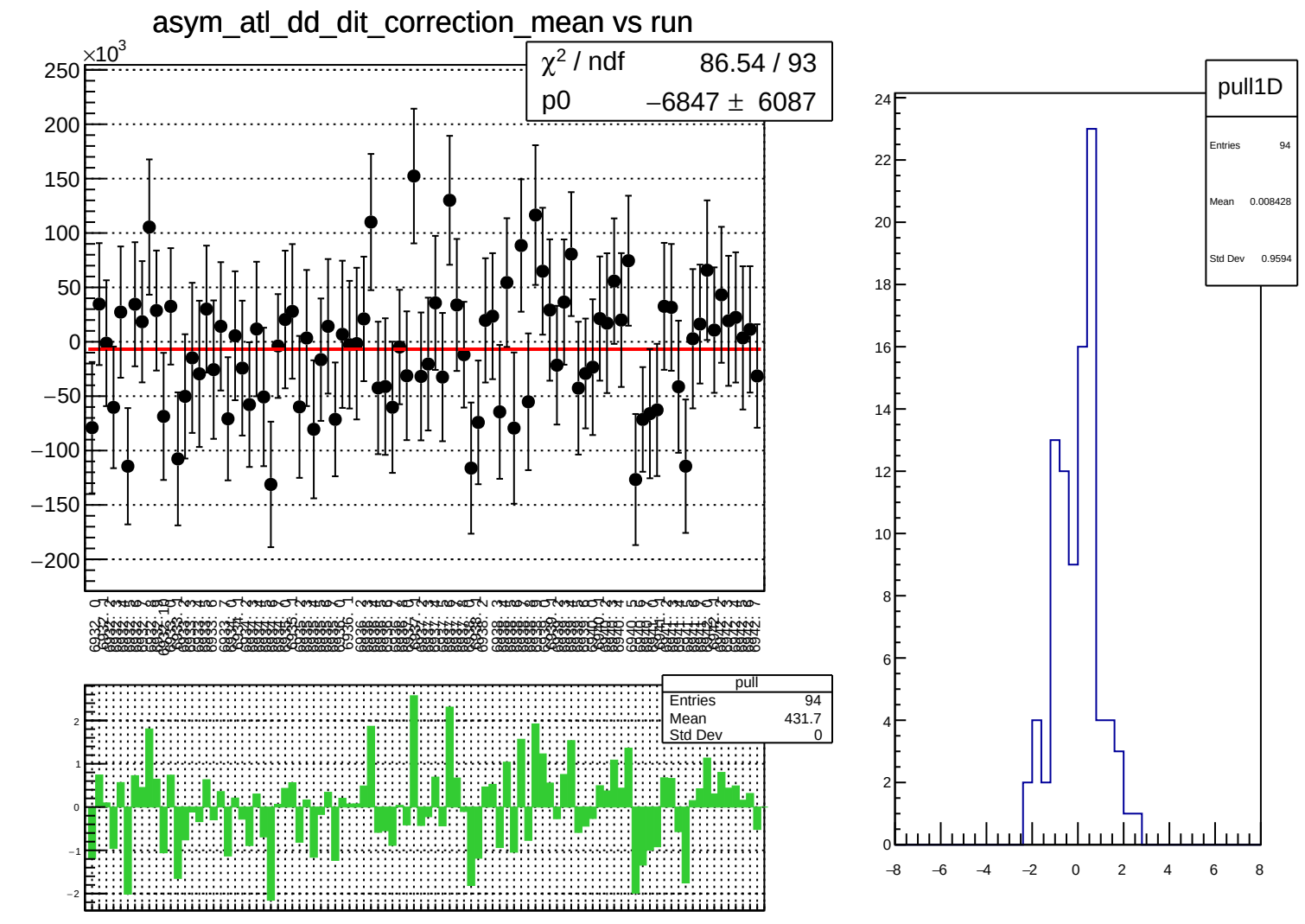

pull1D
Entries 94
Mean 0.008074
Std Dev 0.9614

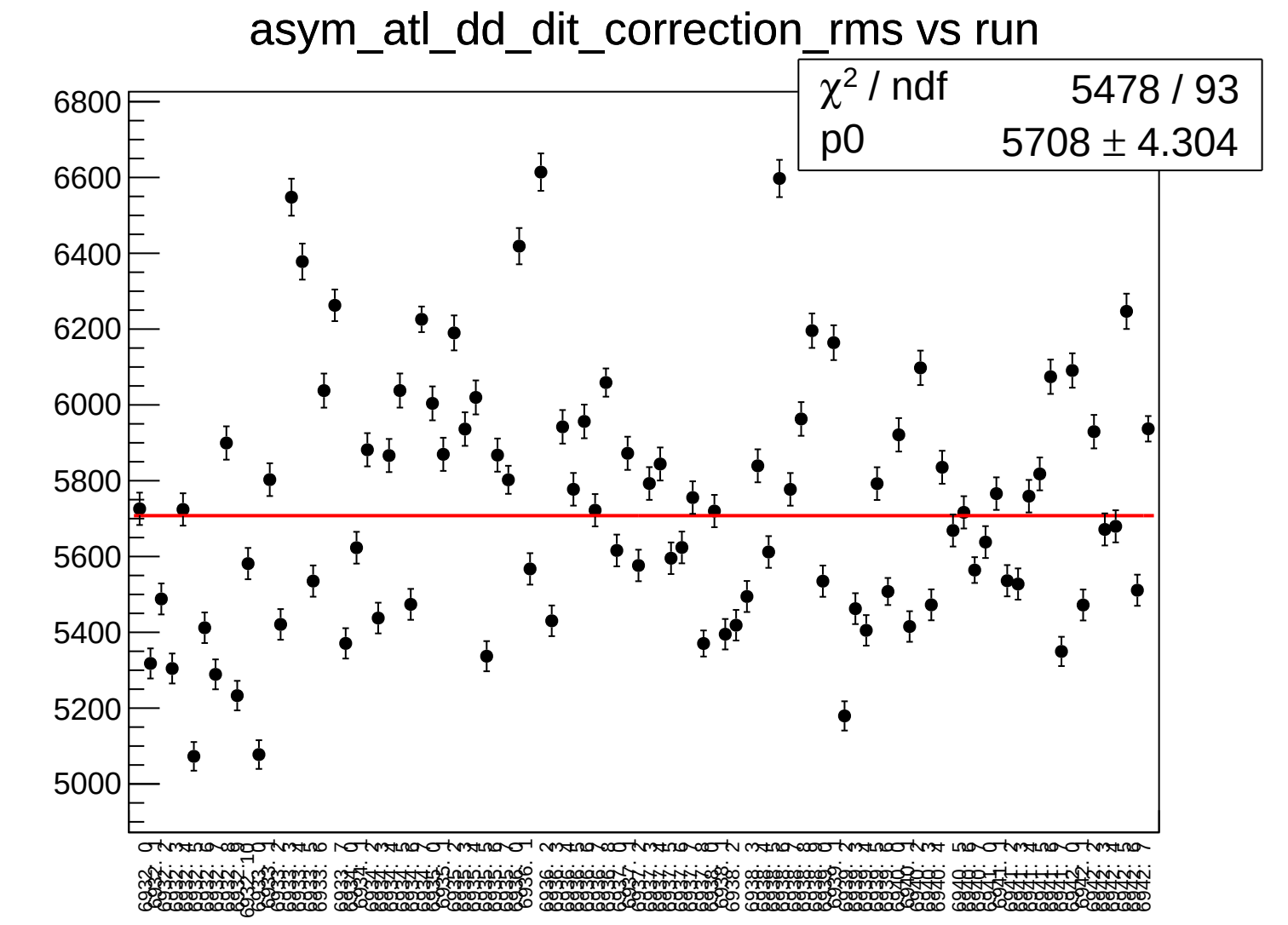

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 5400 / 93
p0 5353 ± 4.036
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

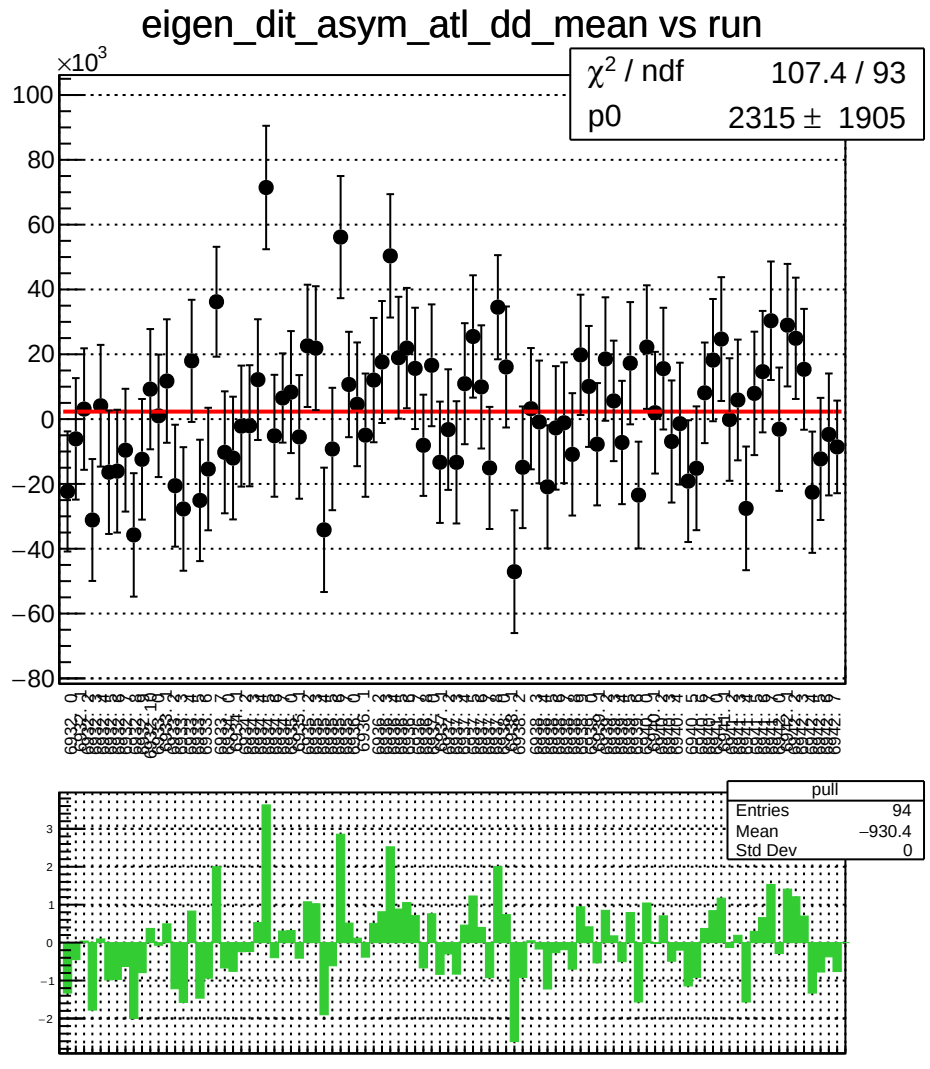

dit_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 107.4 / 93
p0 2315 ± 1905
pull
Entries 94
Mean −930.4
Std Dev 0

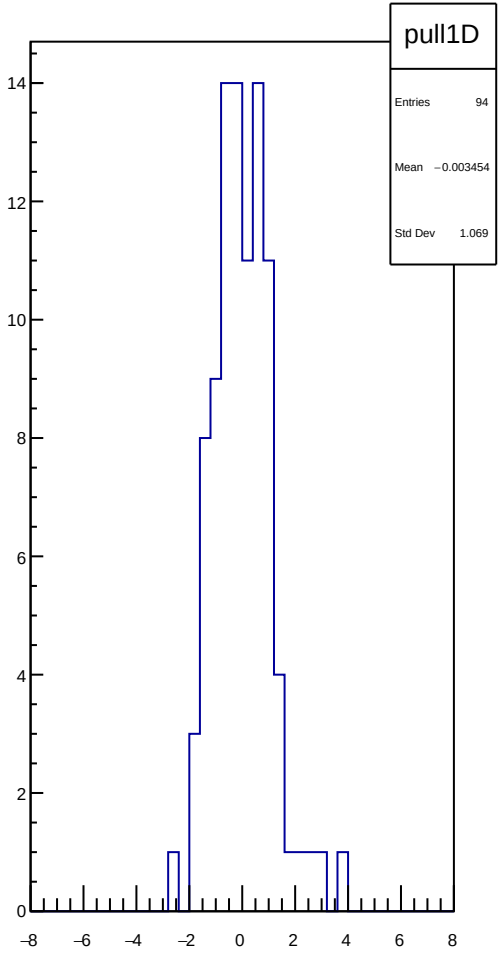

pull1D
Entries 94
Mean −0.003454
Std Dev 1.069

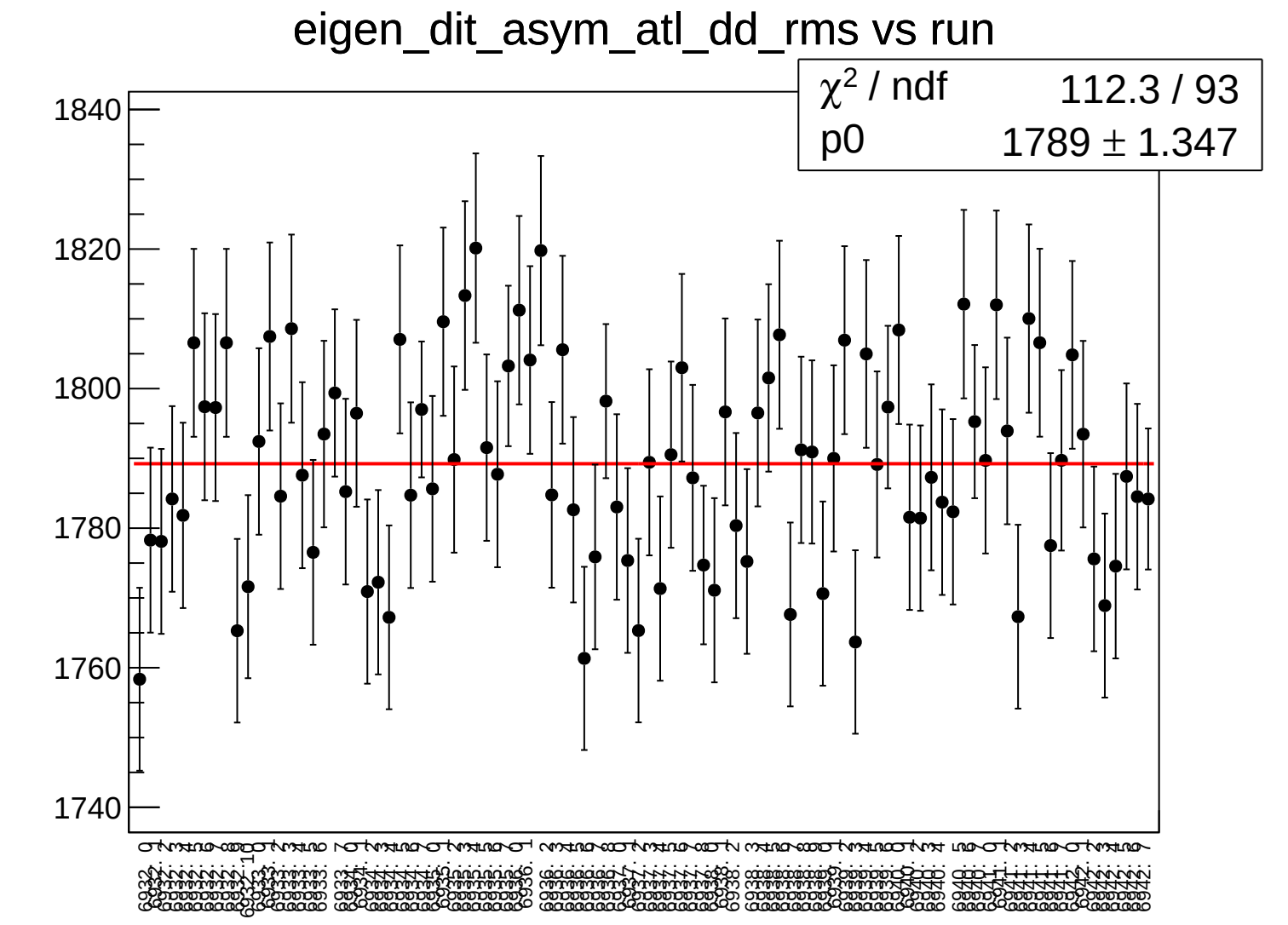

dit_asym_atl_dd_rms vs run
χ² / ndf 112.3 / 93
p0 1789 ± 1.347
1840
1820
1800
1780
1760
1740

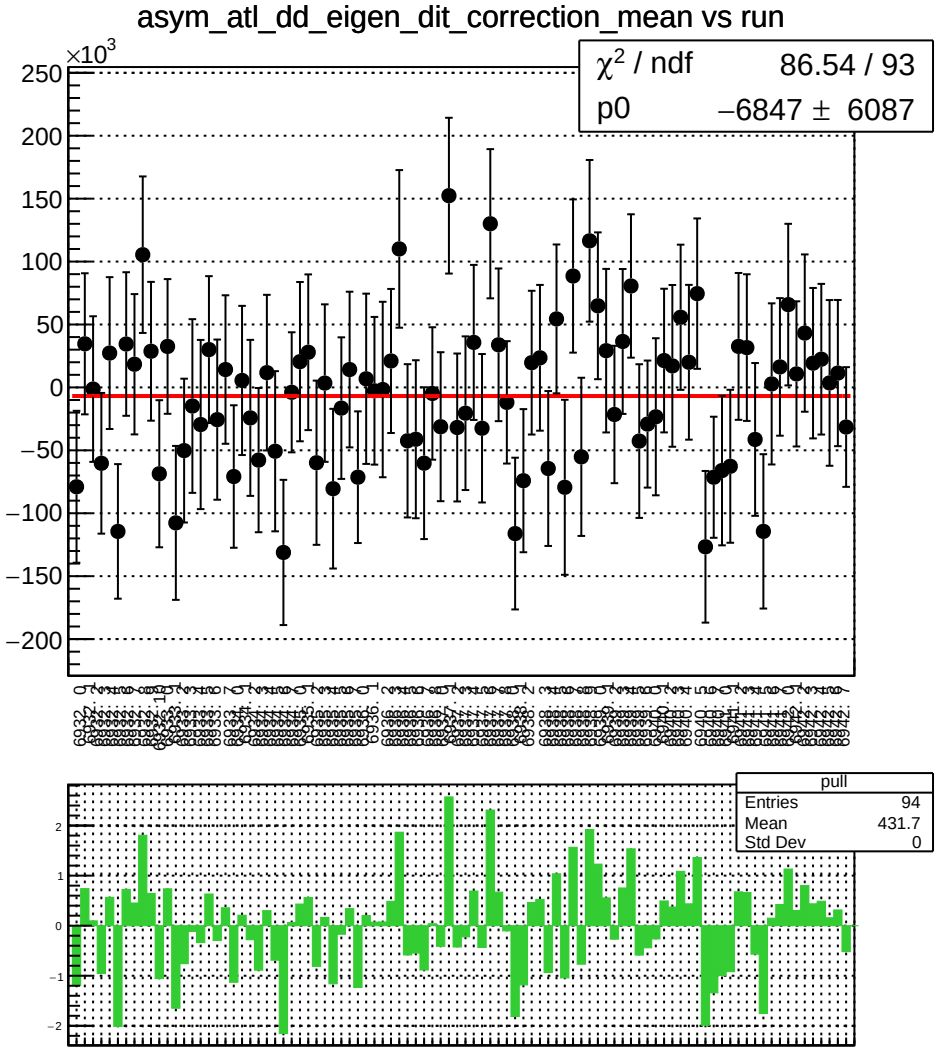

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.54 / 93
p0 −6847 ± 6087
pull
Entries 94
Mean 431.7
Std Dev 0
pull1D
Entries 94
Mean 0.008428
Std Dev 0.9594

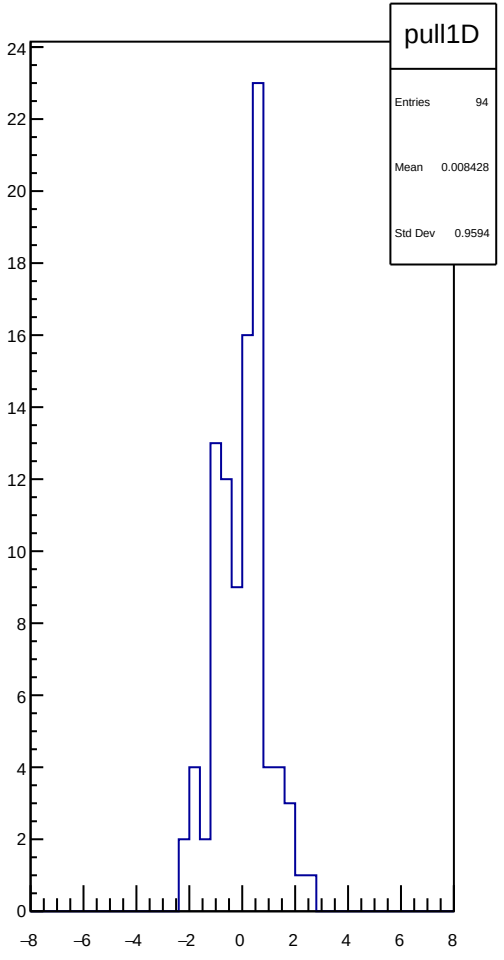

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 5478 / 93
p0 5708 ± 4.304
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

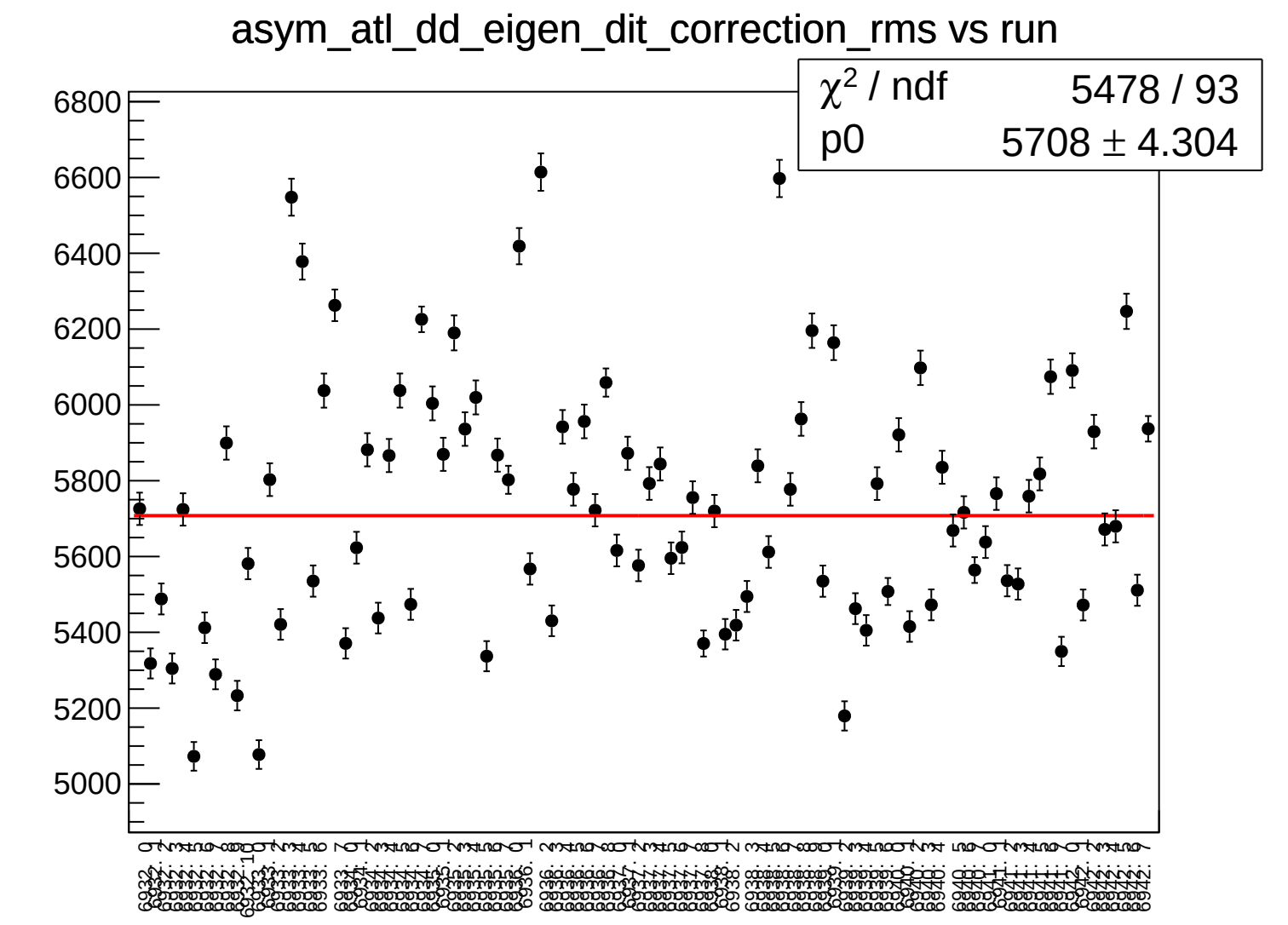

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 107.4 / 93
p0 2315 ± 1905
pull
Entries 94
Mean −930.4
Std Dev 0

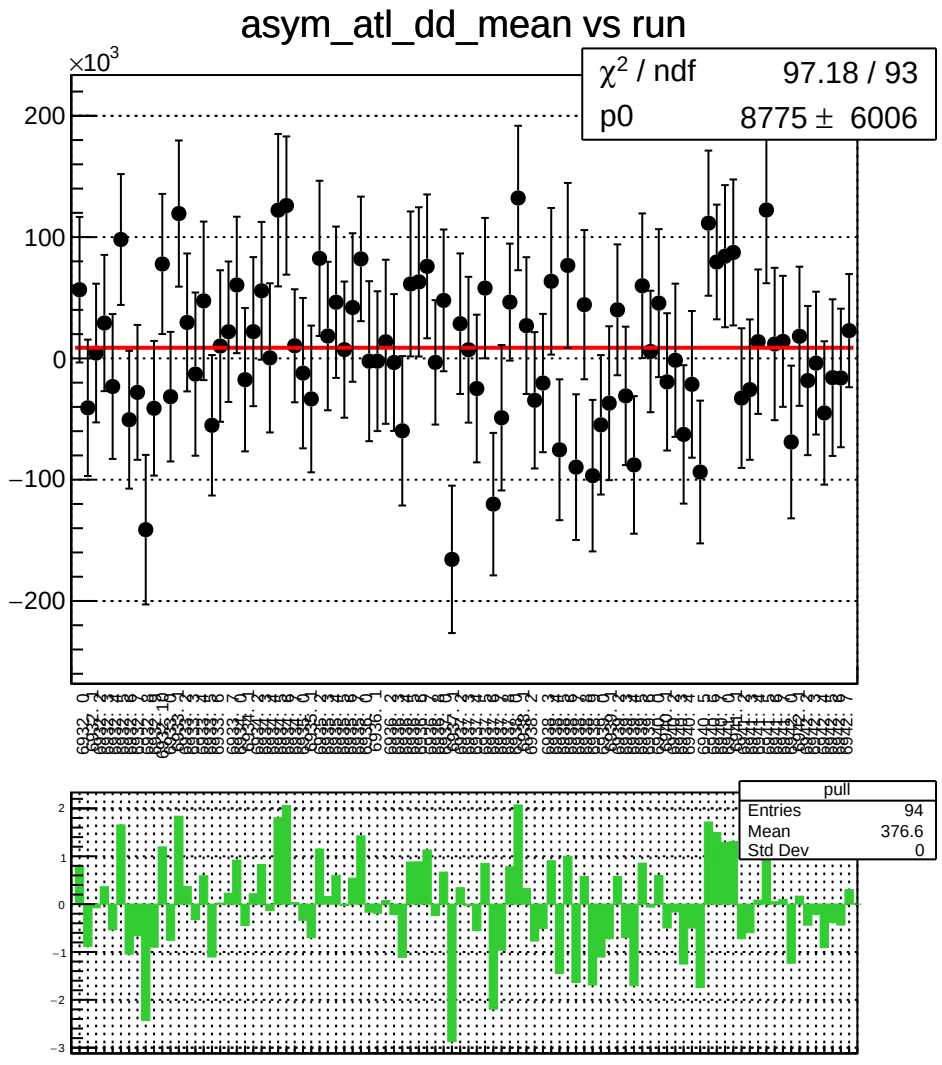

pull1D
Entries 94
Mean −0.003454
Std Dev 1.069

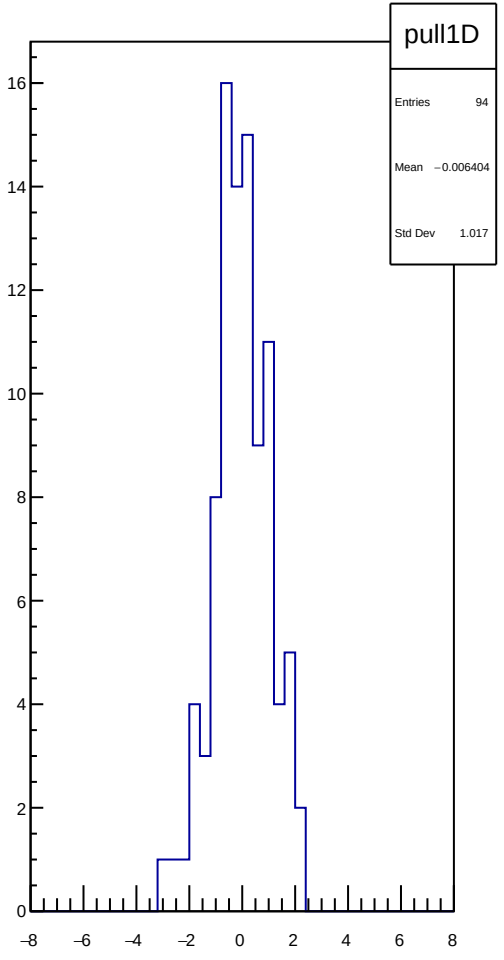

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 112.3 / 93
p0 1789 ± 1.347
1840
1820
1800
1780
1760
1740

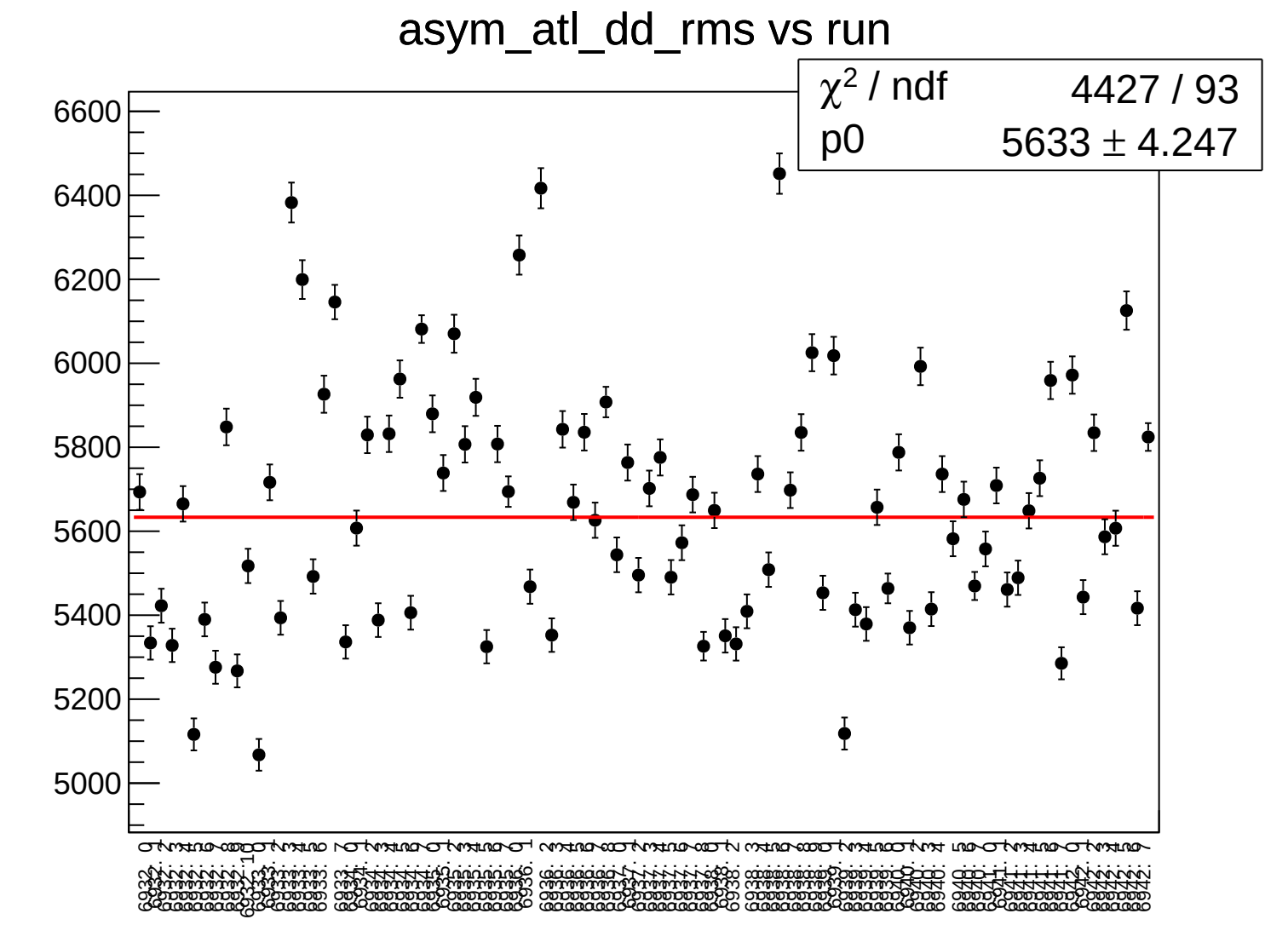

asym_atl_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 86.54 / 93
p0 −6847 ± 6087
×10^3
pull
Entries 94
Mean 431.7
Std Dev 0

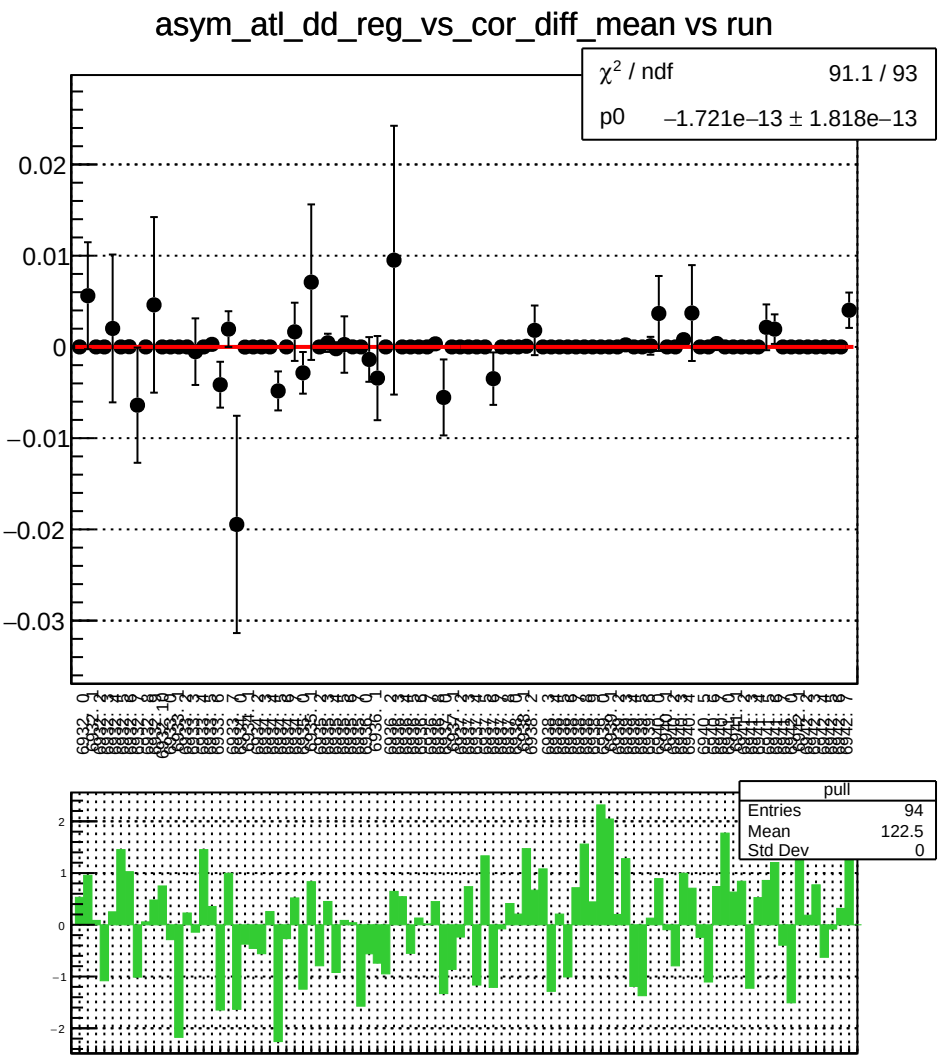

pull1D
Entries 94
Mean 0.008428
Std Dev 0.9594

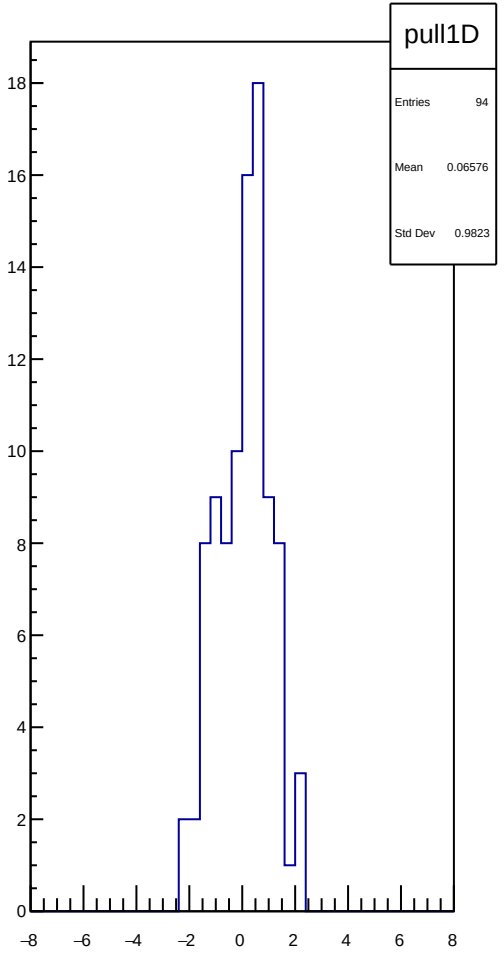

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 5478 / 93
p0 5708 ± 4.304
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

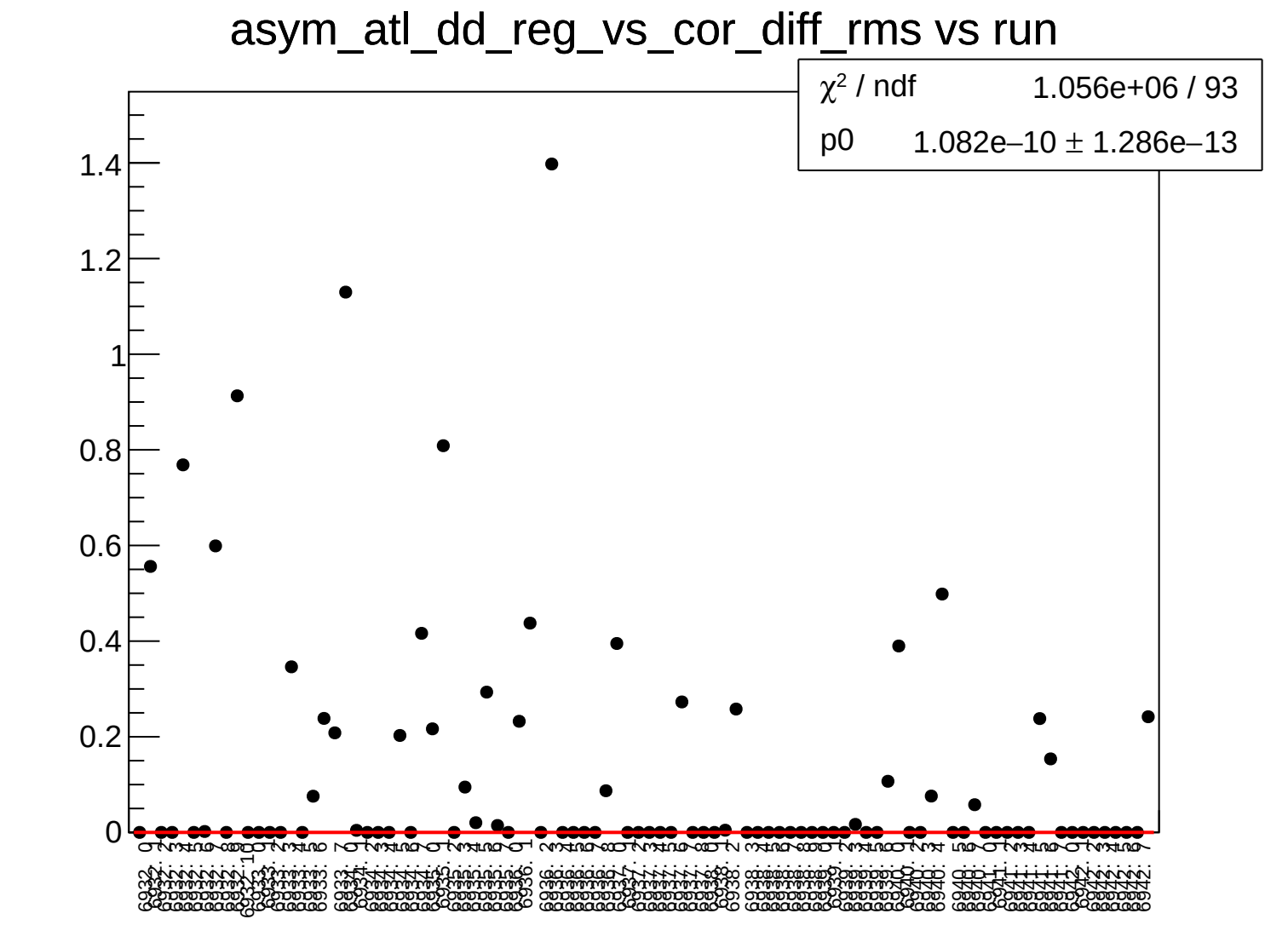

asym_atl_dd_mean vs run
×10^3
χ² / ndf 97.18 / 93
p0 8775 ± 6006
200
100
0
−100
−200
pull
Entries 94
Mean 376.6
Std Dev 0
2
1
0
−1
−2
−3

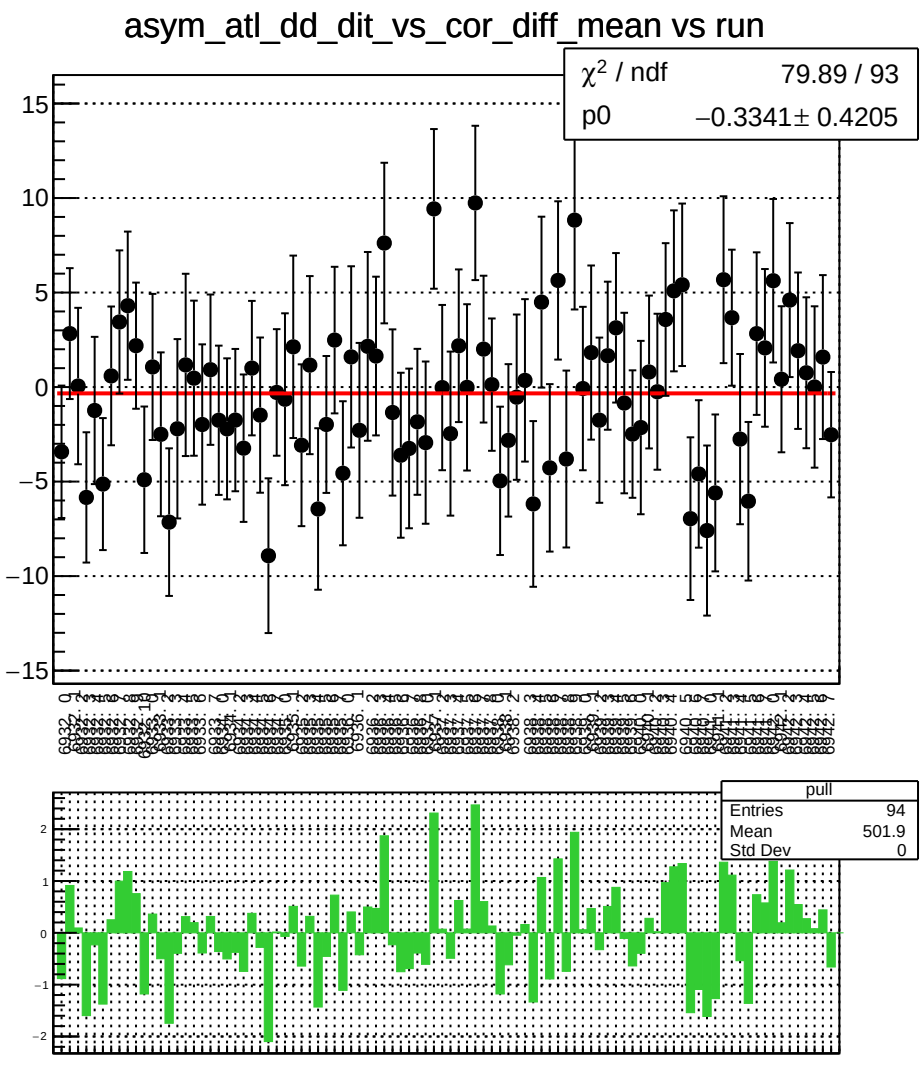

pull1D
Entries 94
Mean −0.006404
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

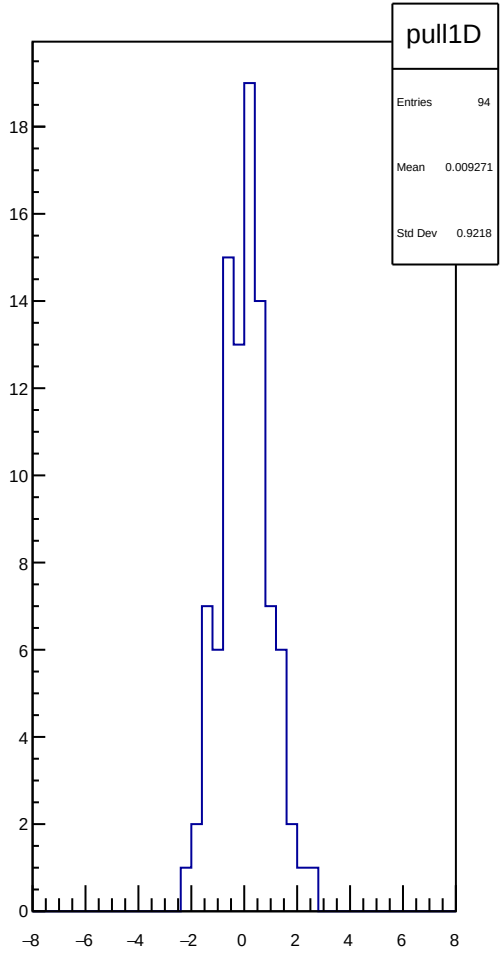

asym_atl_dd_rms vs run
χ² / ndf 4427 / 93
p0 5633 ± 4.247
6600
6400
6200
6000
5800
5600
5400
5200
5000

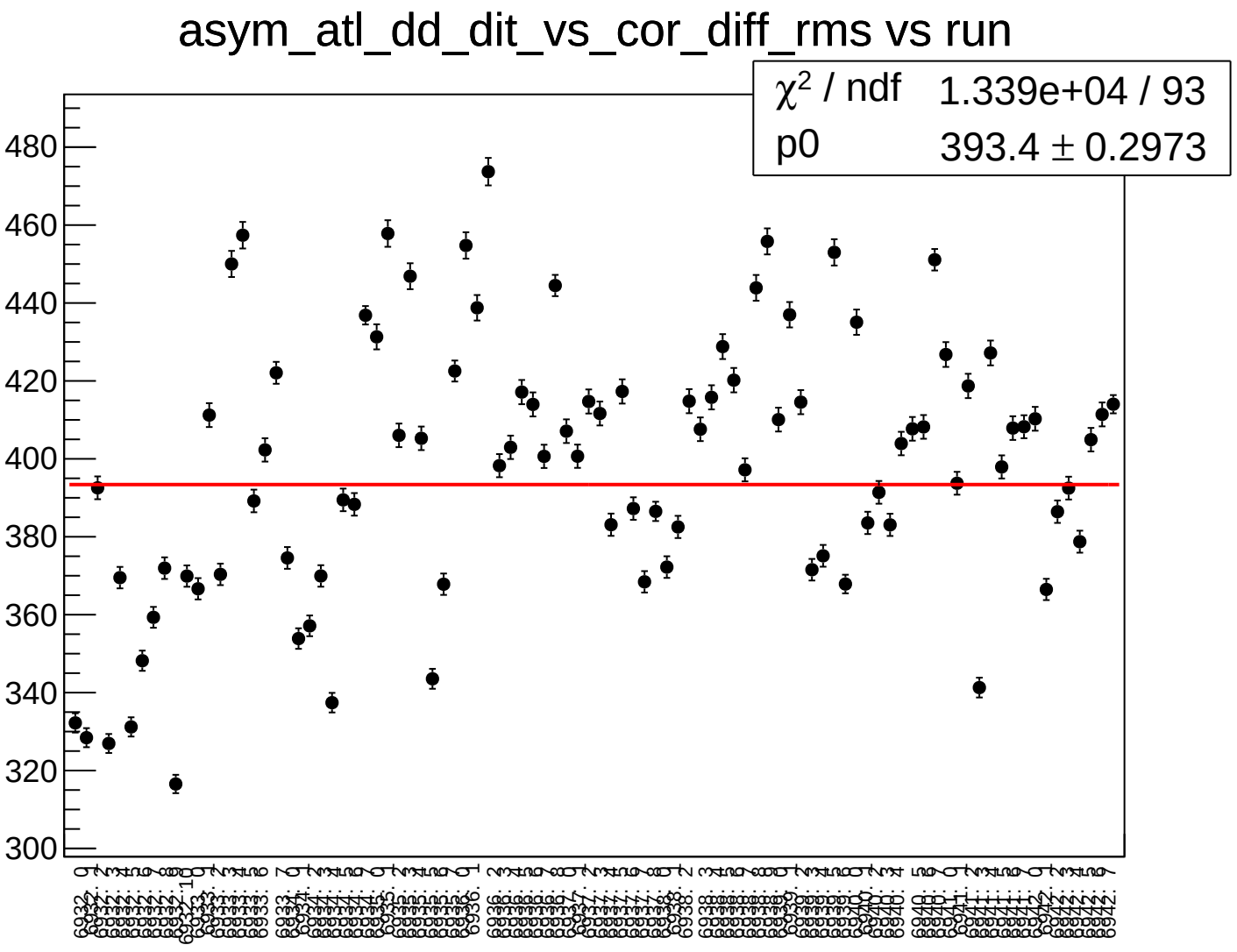

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.1 / 93
p0 −1.721e−13 ± 1.818e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 122.5
Std Dev 0
2
1
0
−1
−2

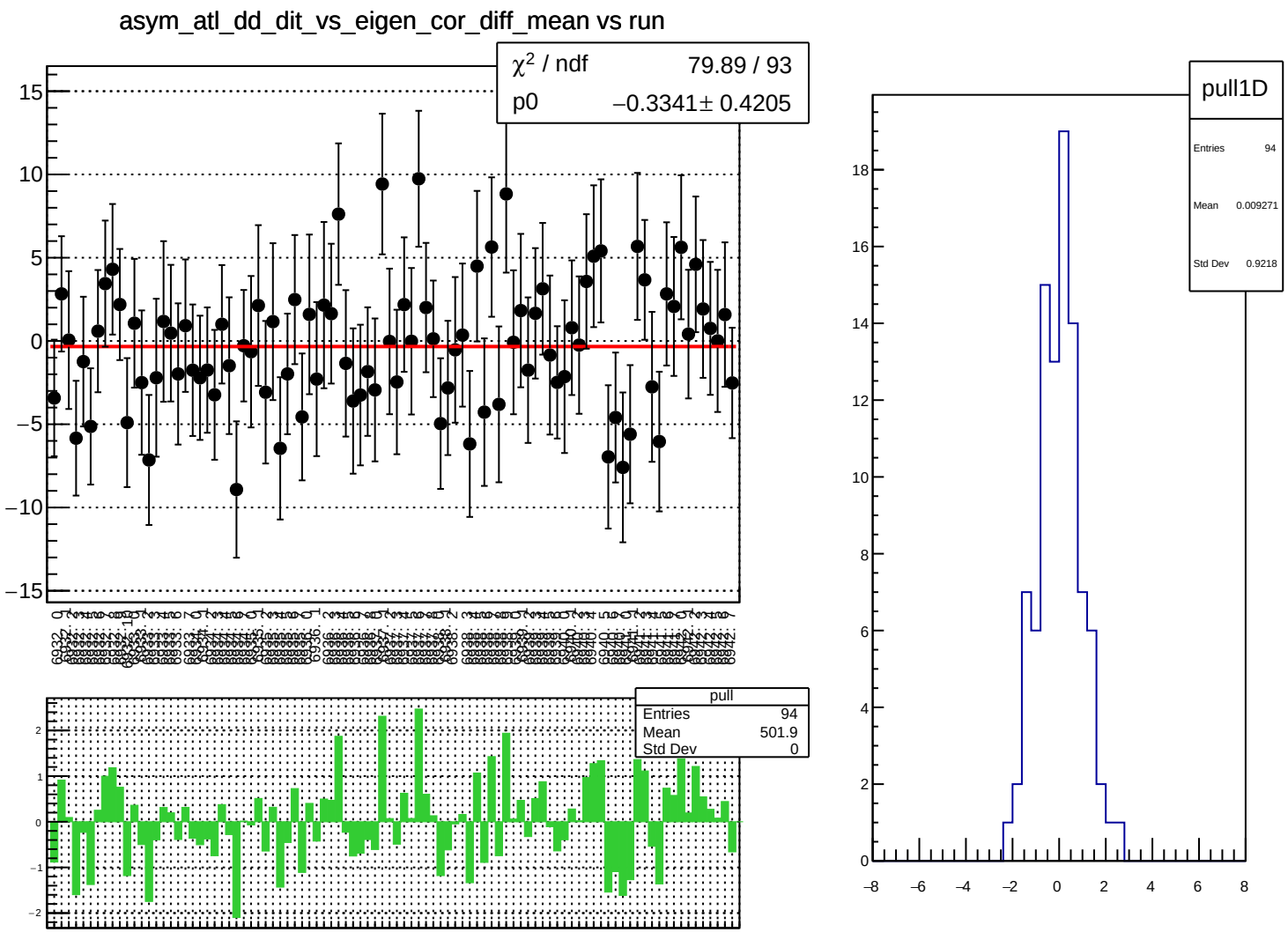

pull1D
Entries 94
Mean 0.06576
Std Dev 0.9823
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

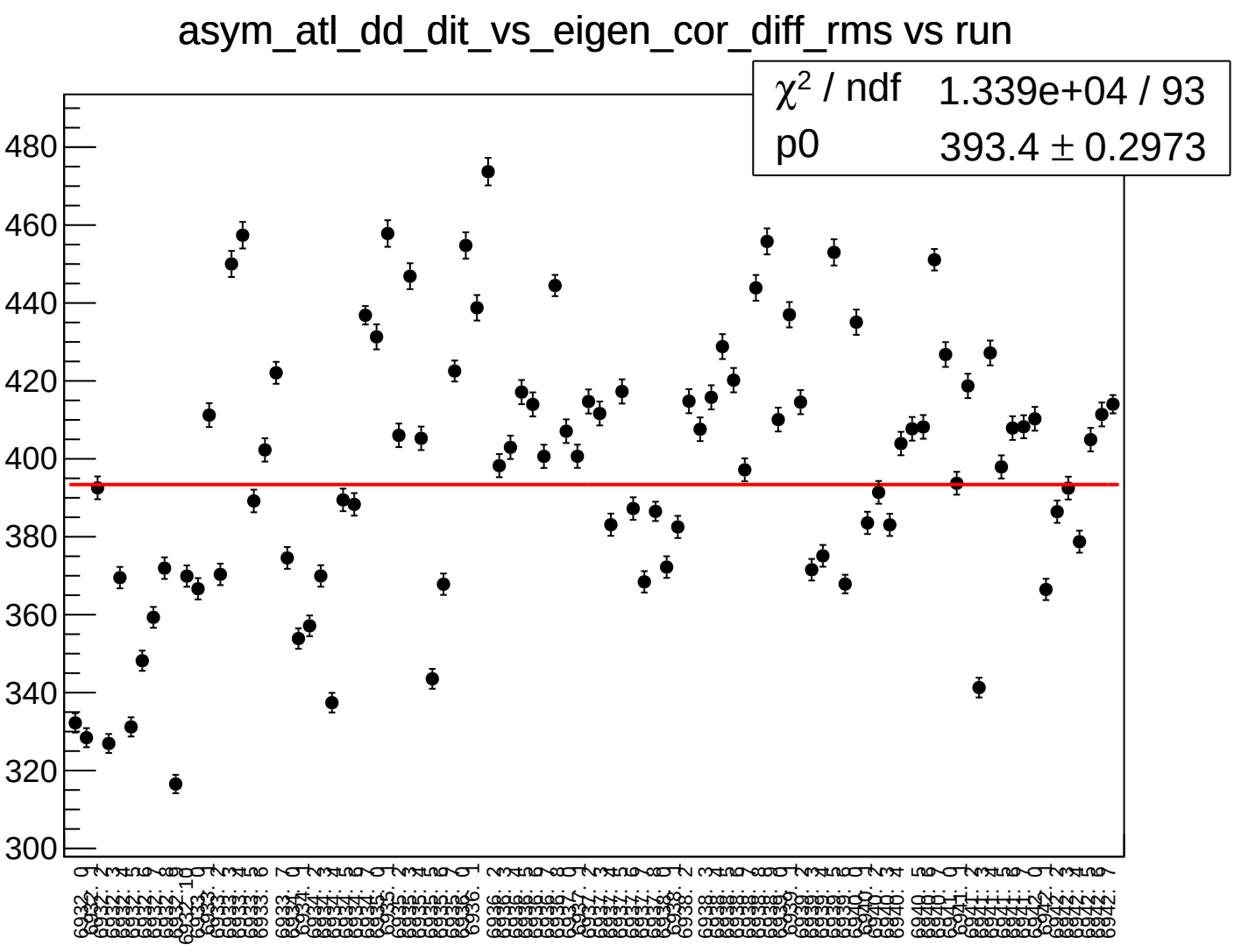

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.056e+06 / 93
p0 1.082e−10 ± 1.286e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

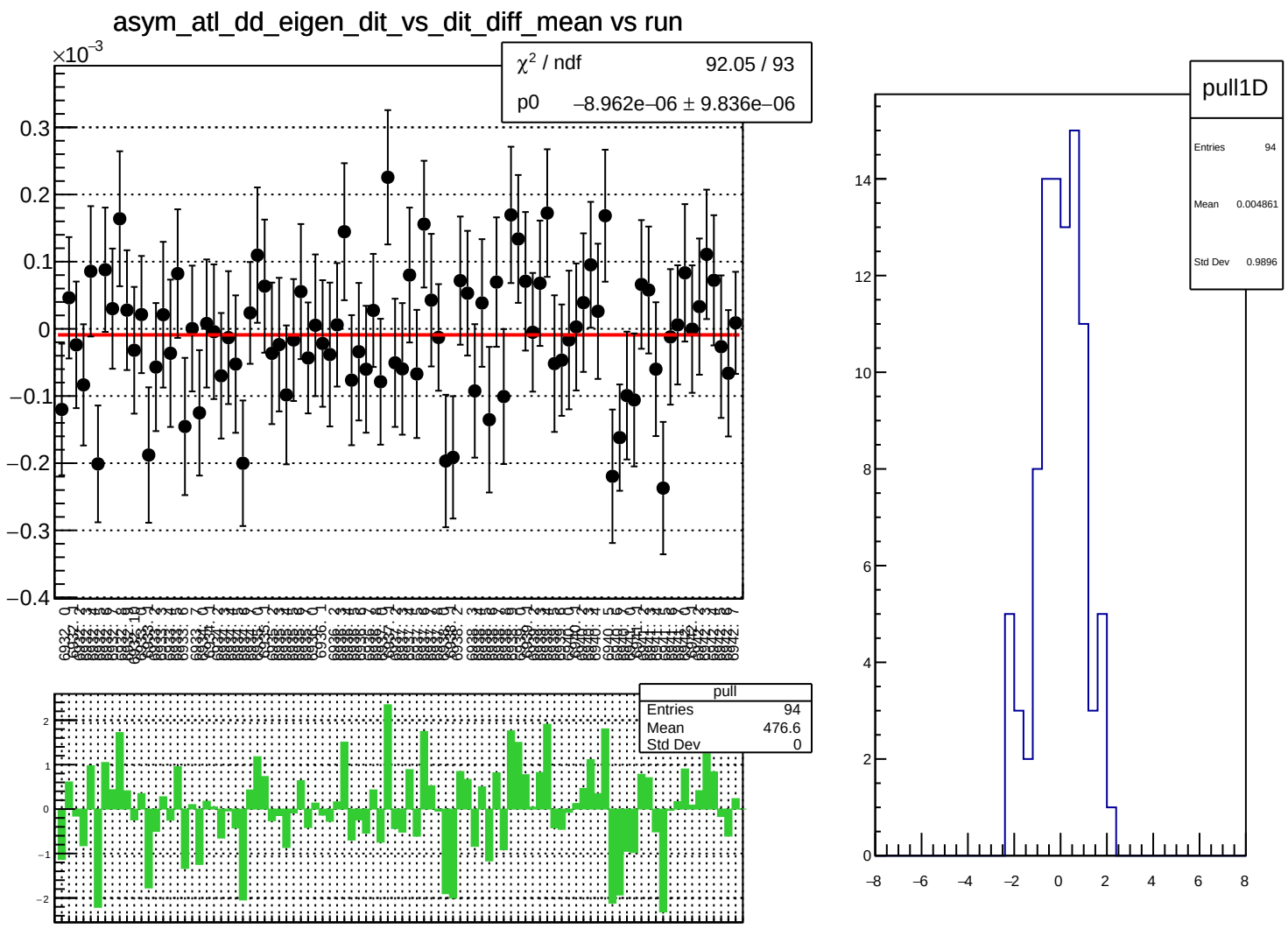

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.89 / 93
p0 −0.3341± 0.4205
pull
Entries 94
Mean 501.9
Std Dev 0

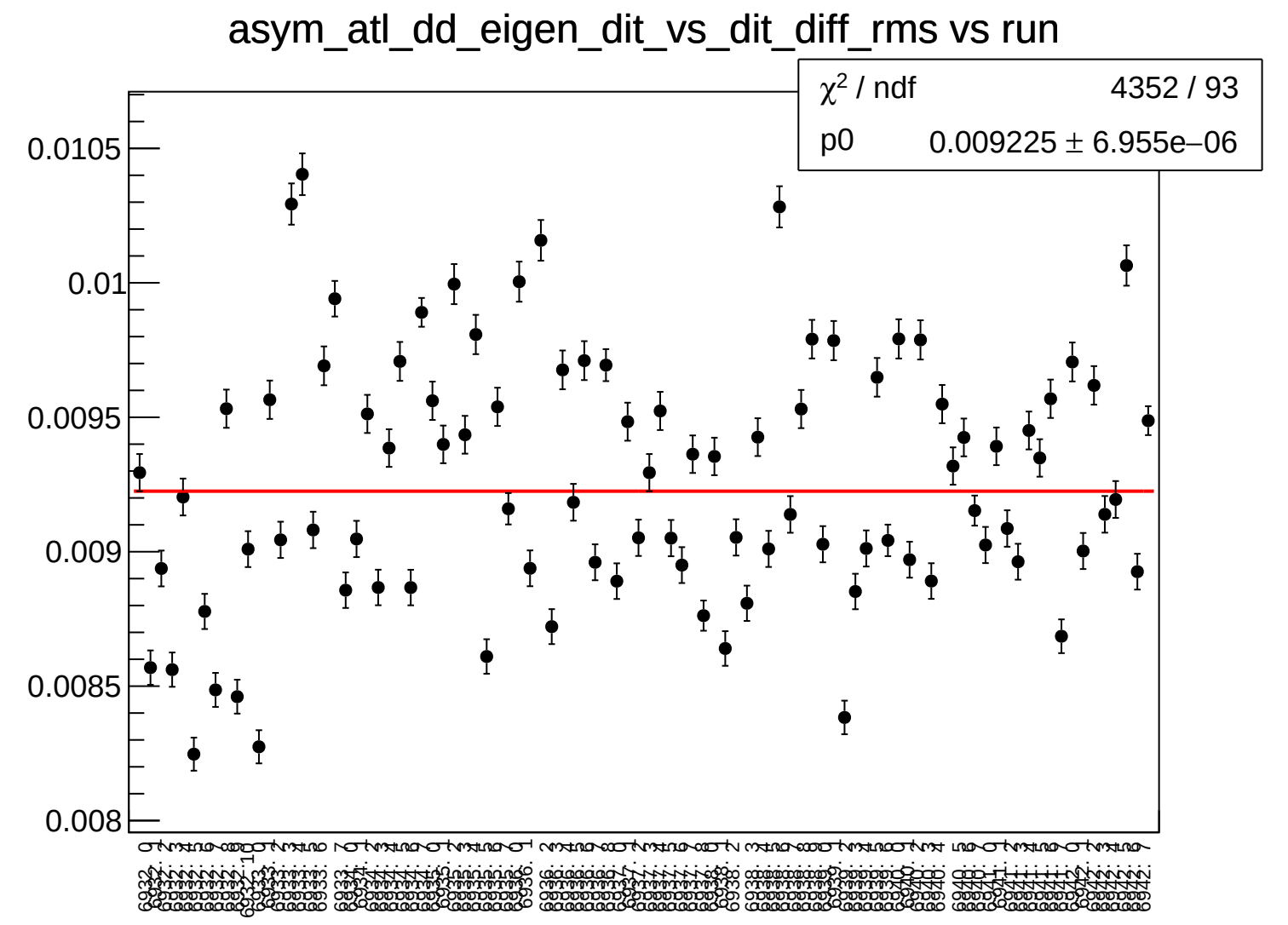

pull1D
Entries 94
Mean 0.009271
Std Dev 0.9218

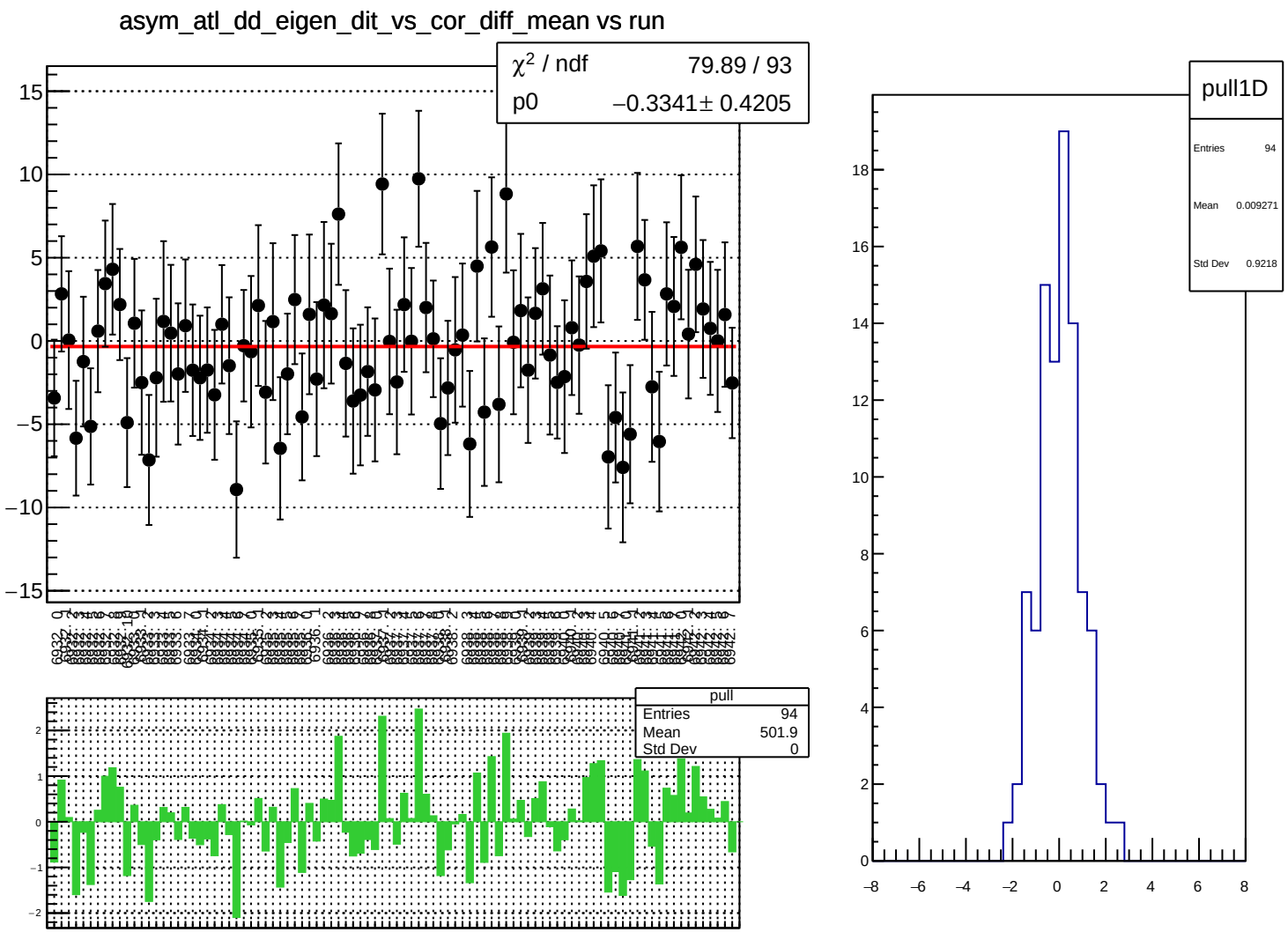

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.339e+04 / 93
p0 393.4 ± 0.2973
480
460
440
420
400
380
360
340
320
300

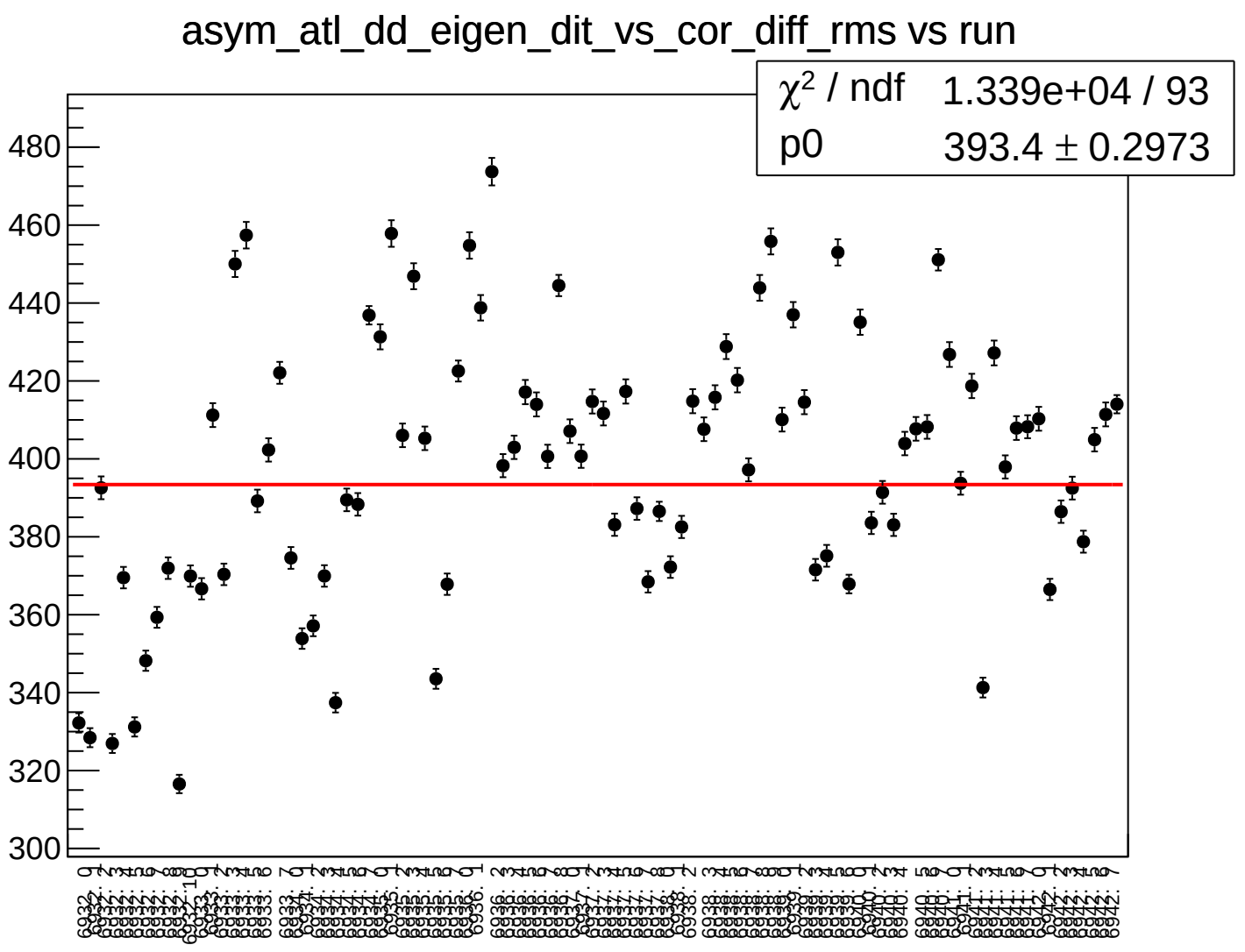

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.89 / 93
p0 −0.3341± 0.4205
pull
Entries 94
Mean 501.9
Std Dev 0
pull1D
Entries 94
Mean 0.009271
Std Dev 0.9218

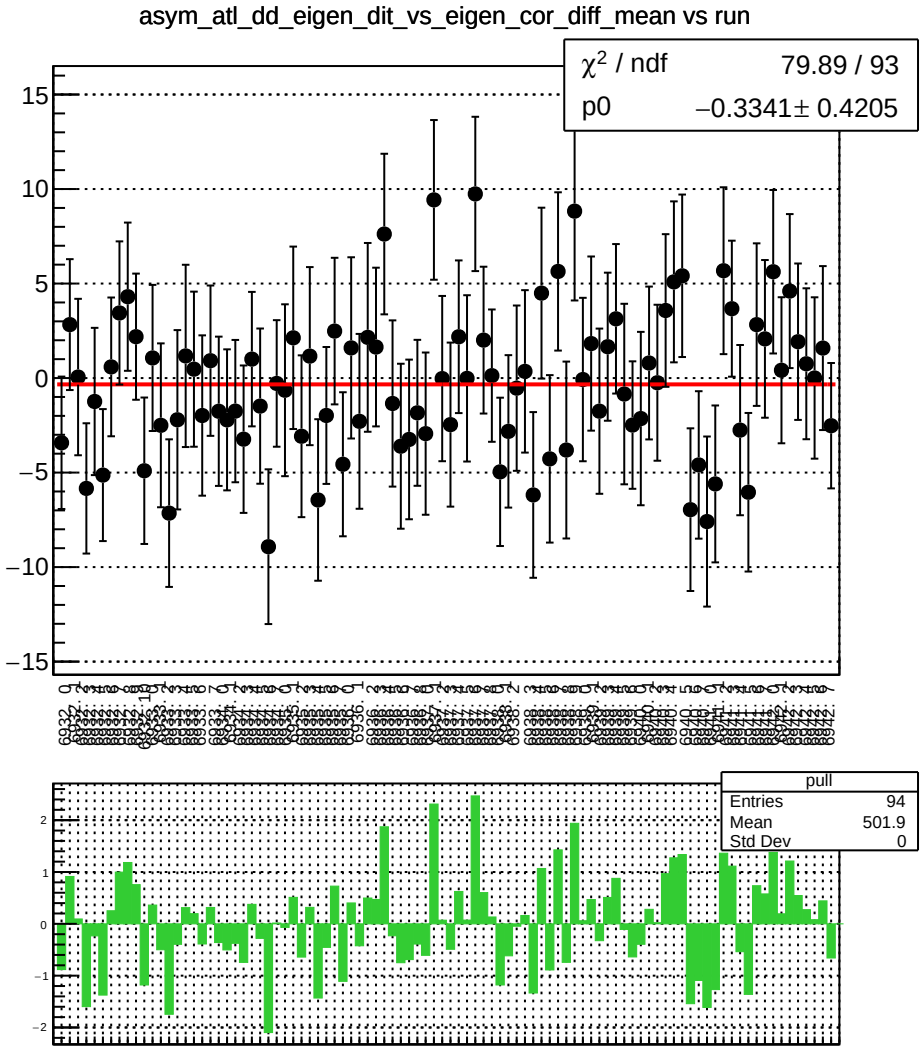

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.339e+04 / 93
p0 393.4 ± 0.2973
480
460
440
420
400
380
360
340
320
300

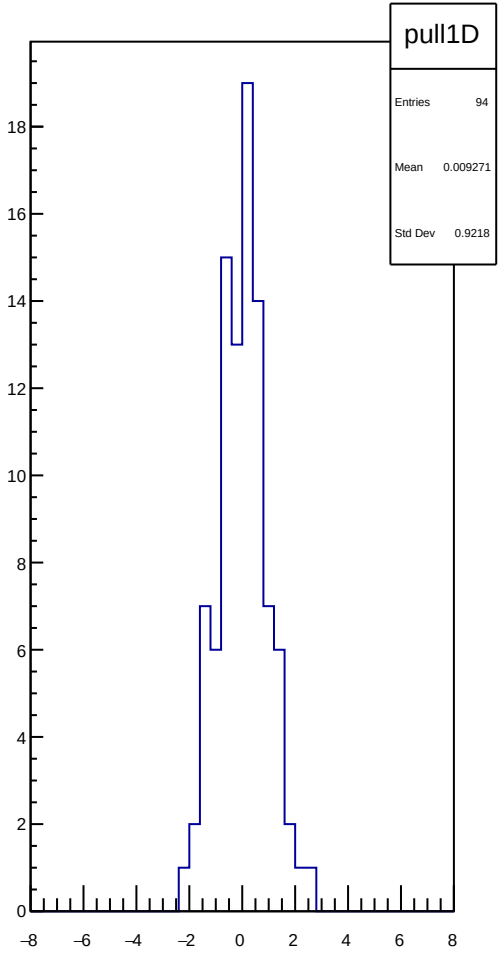

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.05 / 93
p0 −8.962e−06 ± 9.836e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean 476.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004861
Std Dev 0.9896
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

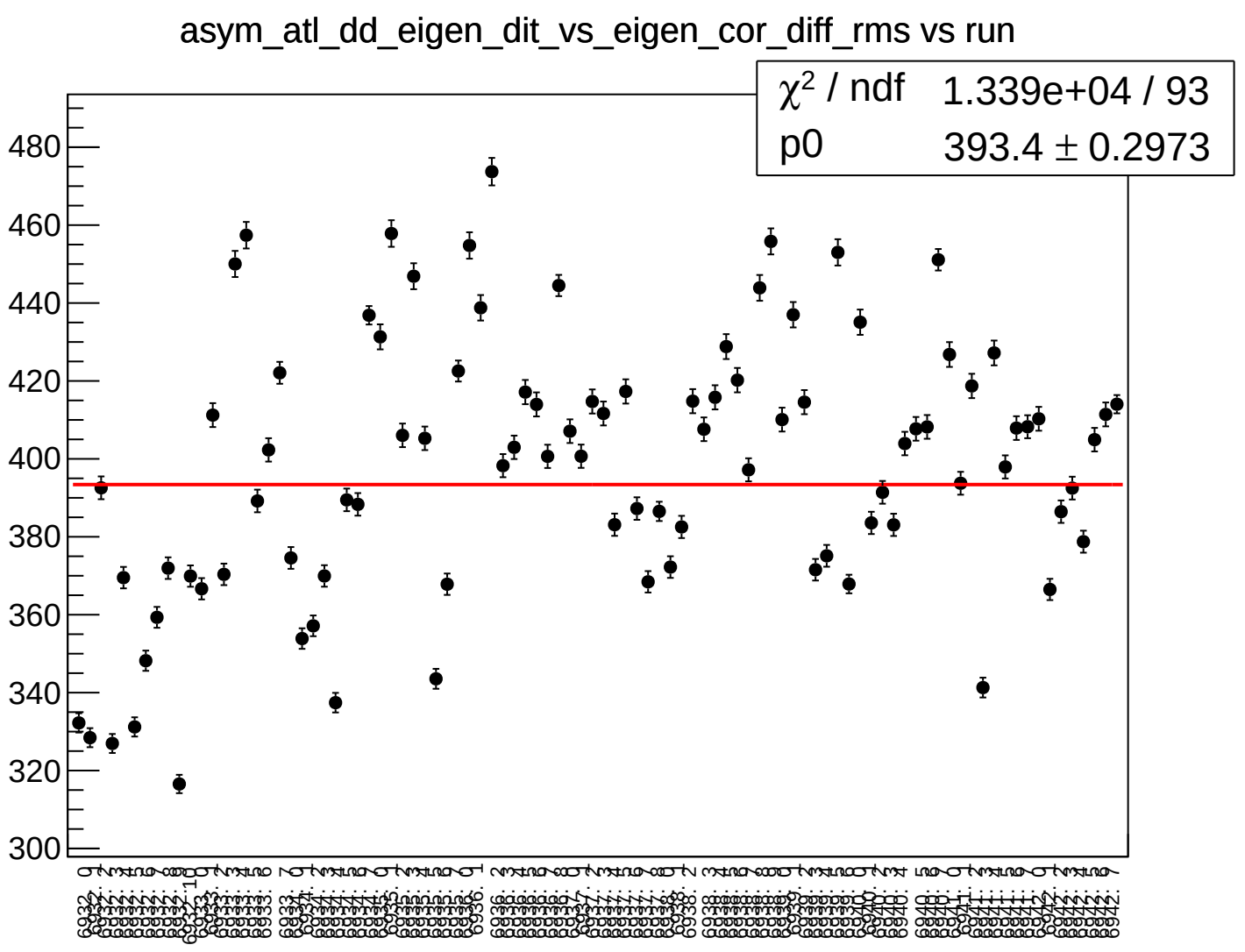

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4352 / 93
p0 0.009225 ± 6.955e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

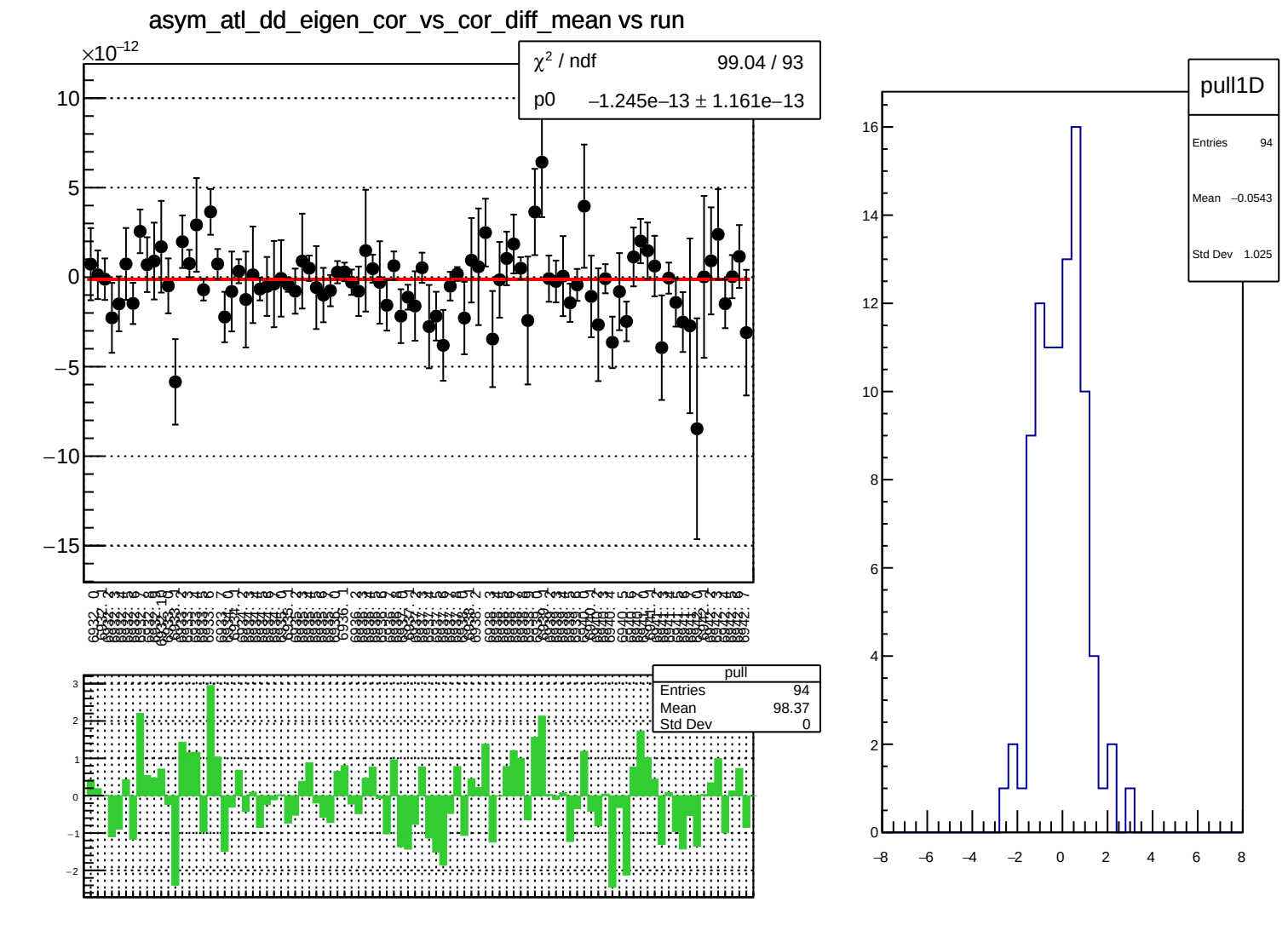

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.89 / 93
p0 −0.3341± 0.4205
pull
Entries 94
Mean 501.9
Std Dev 0
pull1D
Entries 94
Mean 0.009271
Std Dev 0.9218

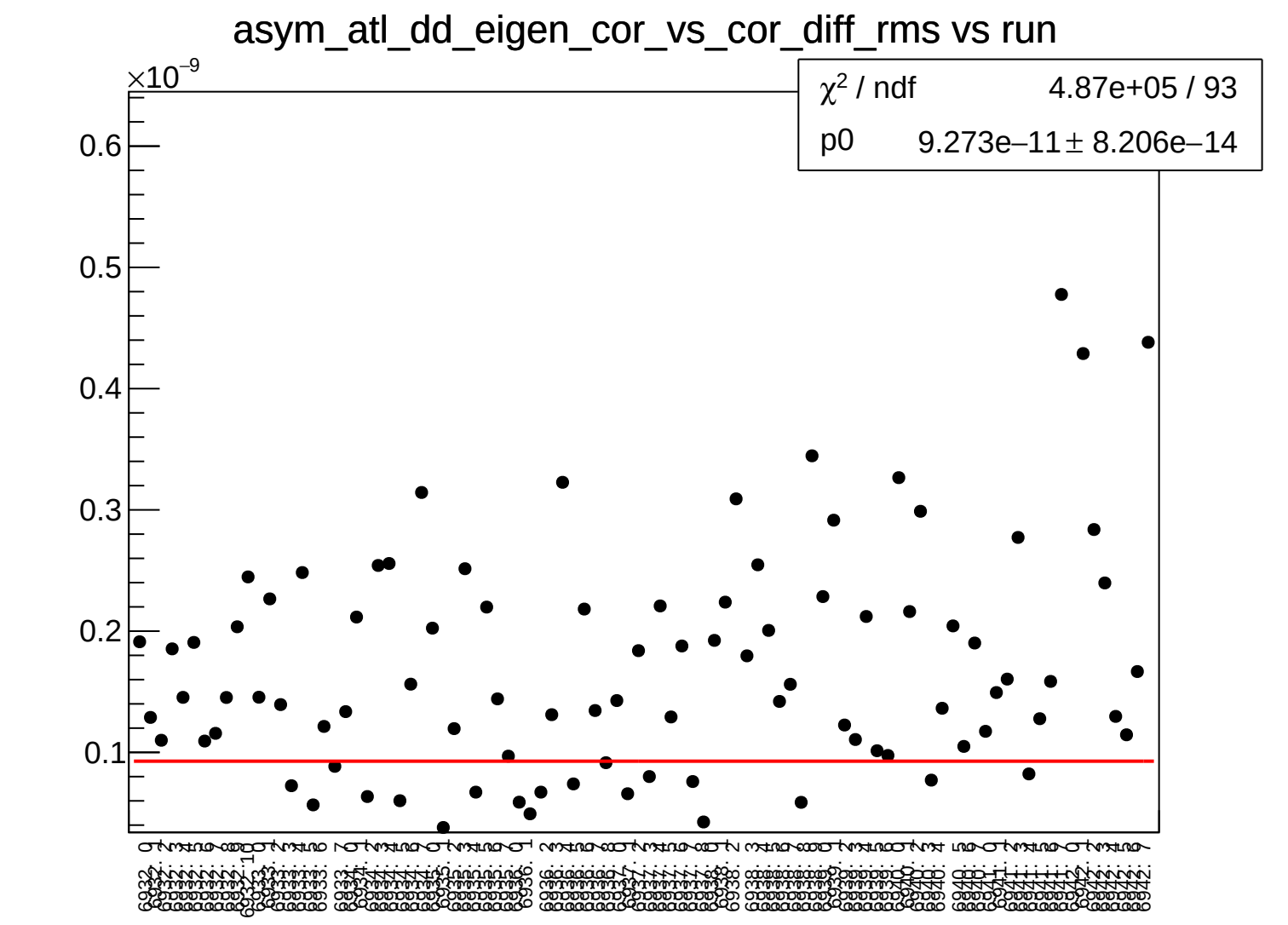

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.339e+04 / 93
p0 393.4 ± 0.2973
480
460
440
420
400
380
360
340
320
300

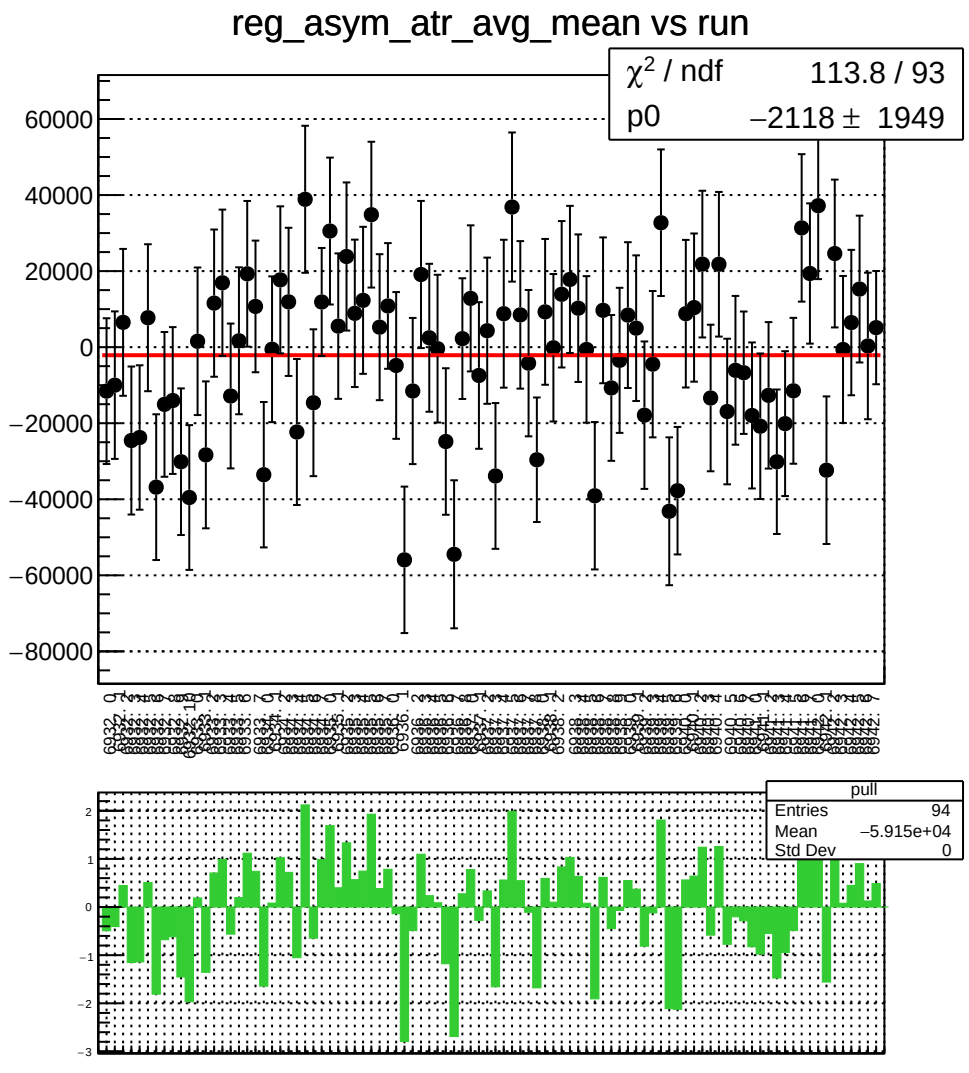

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.89 / 93
p0 −0.3341± 0.4205
pull
Entries 94
Mean 501.9
Std Dev 0

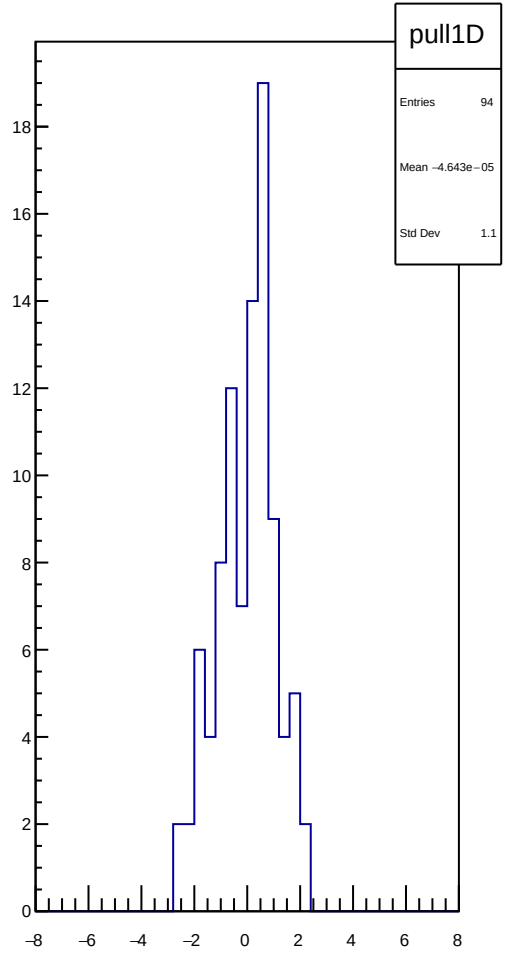

pull1D
Entries 94
Mean 0.009271
Std Dev 0.9218

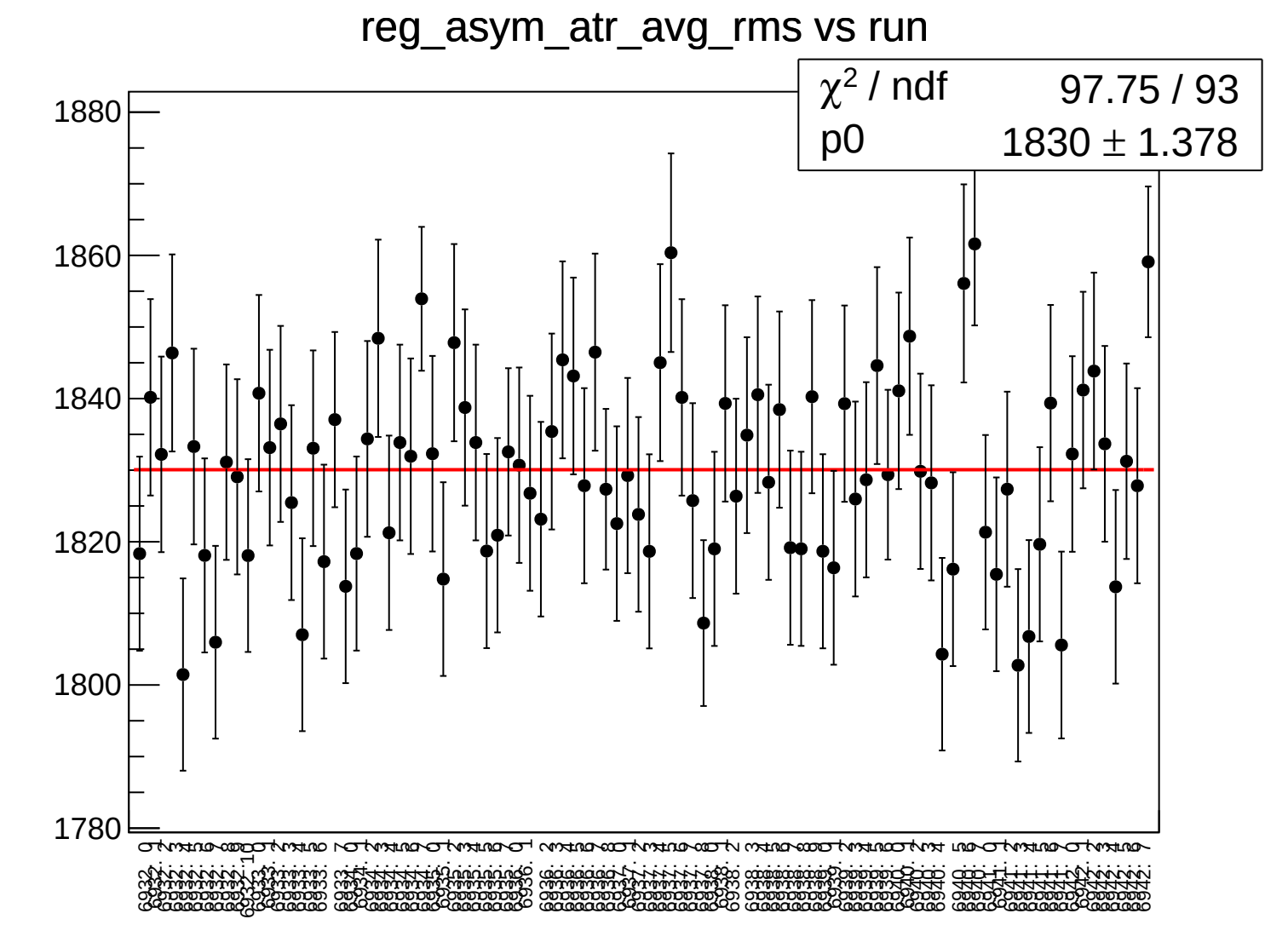

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.339e+04 / 93
p0 393.4 ± 0.2973
480
460
440
420
400
380
360
340
320
300

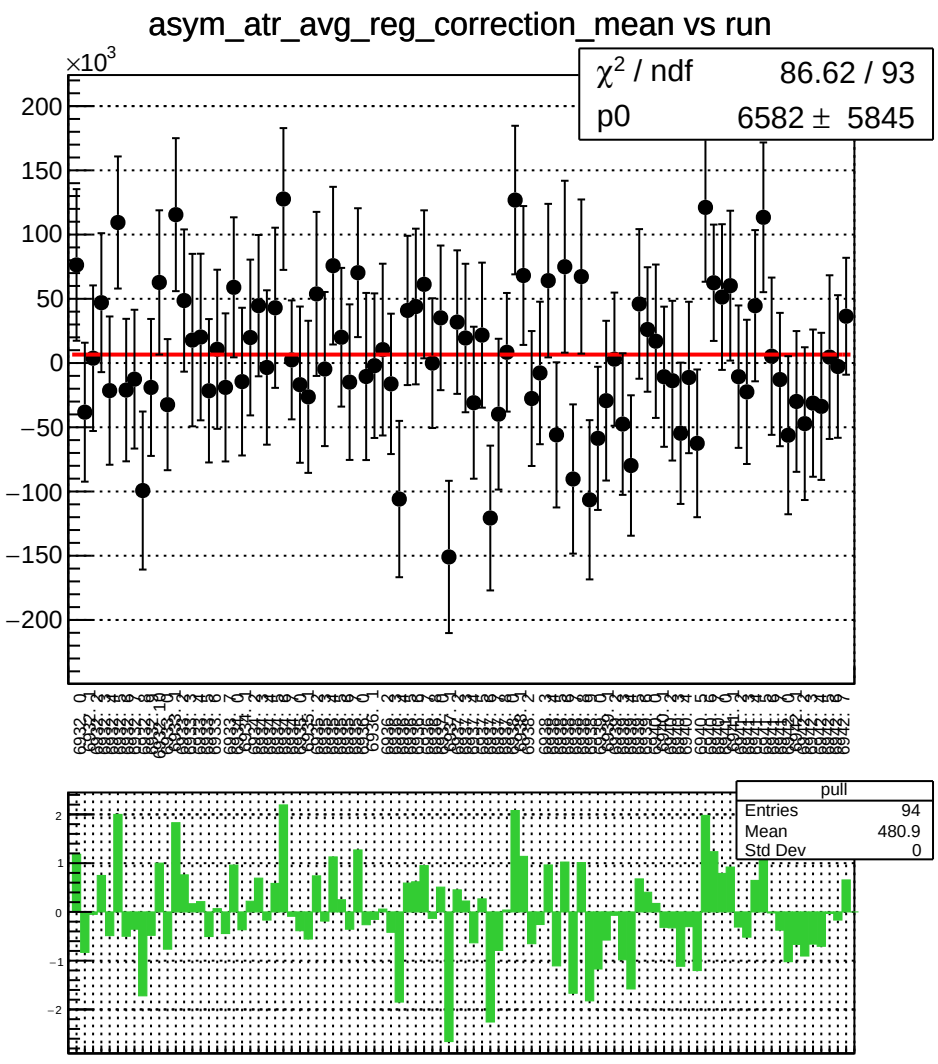

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.04 / 93
p0 −1.245e−13 ± 1.161e−13
pull
Entries 94
Mean 98.37
Std Dev 0
pull1D
Entries 94
Mean −0.0543
Std Dev 1.025

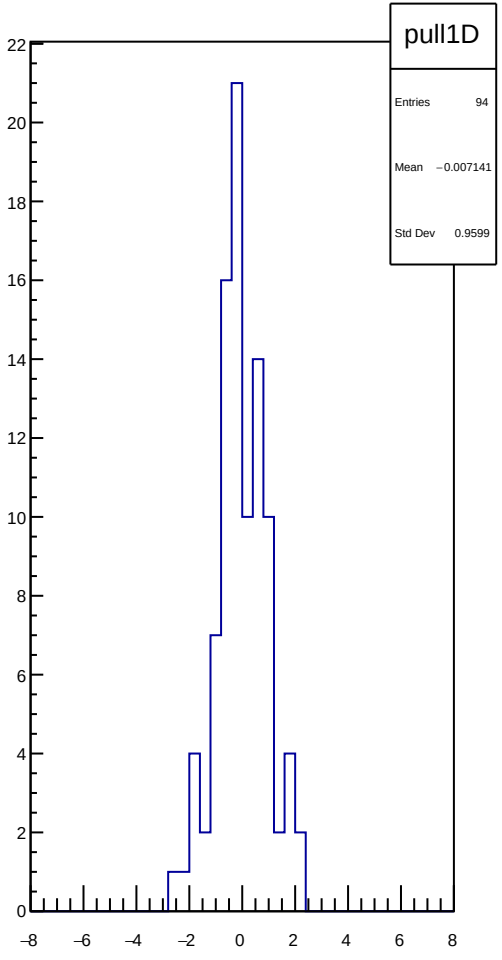

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.87e+05 / 93
p0 9.273e−11 ± 8.206e−14
0.6
0.5
0.4
0.3
0.2
0.1

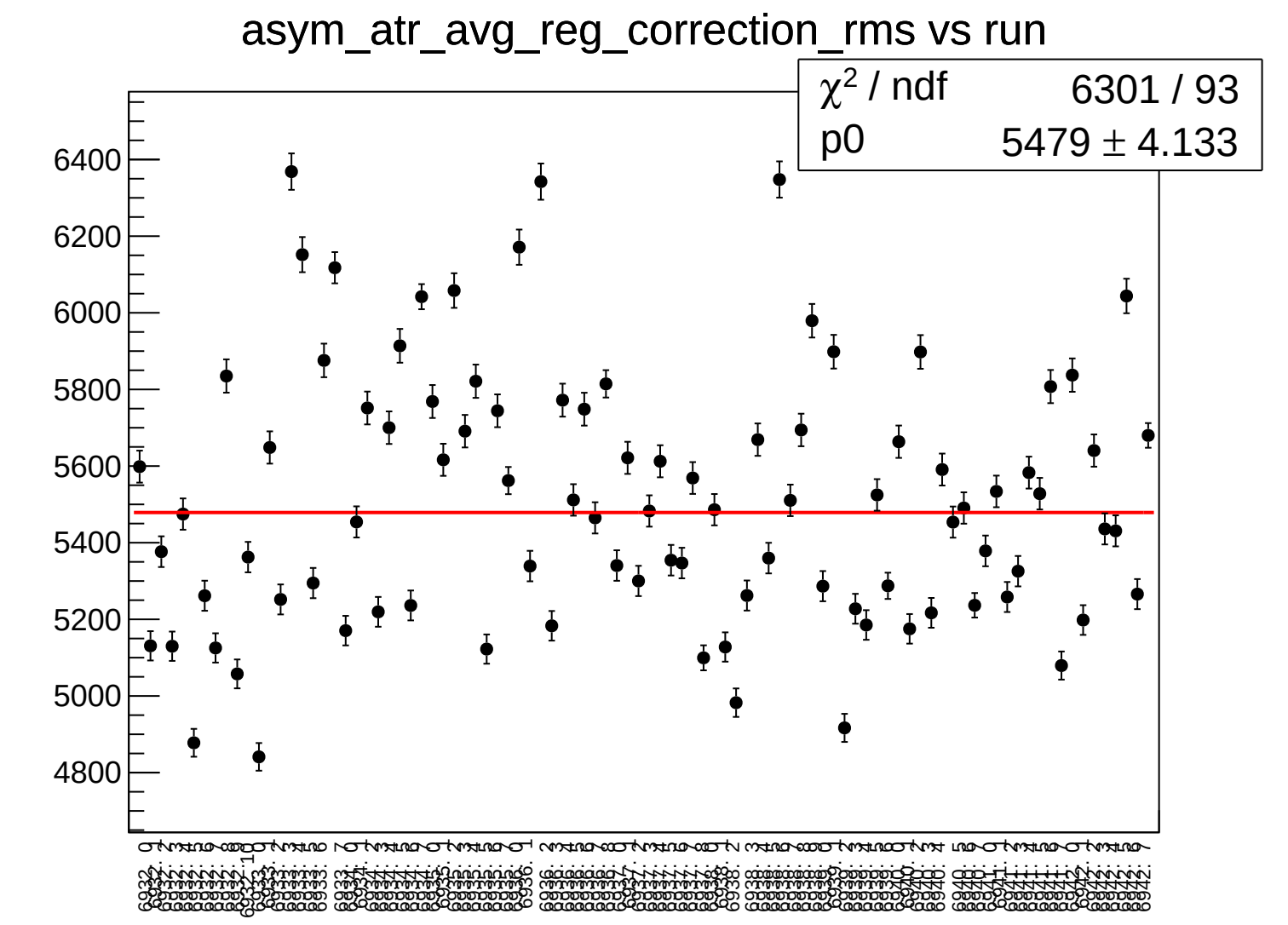

reg_asym_atr_avg_mean vs run
χ² / ndf 113.8 / 93
p0 −2118 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −5.915e+04
Std Dev 0
2
1
0
−1
−2
−3

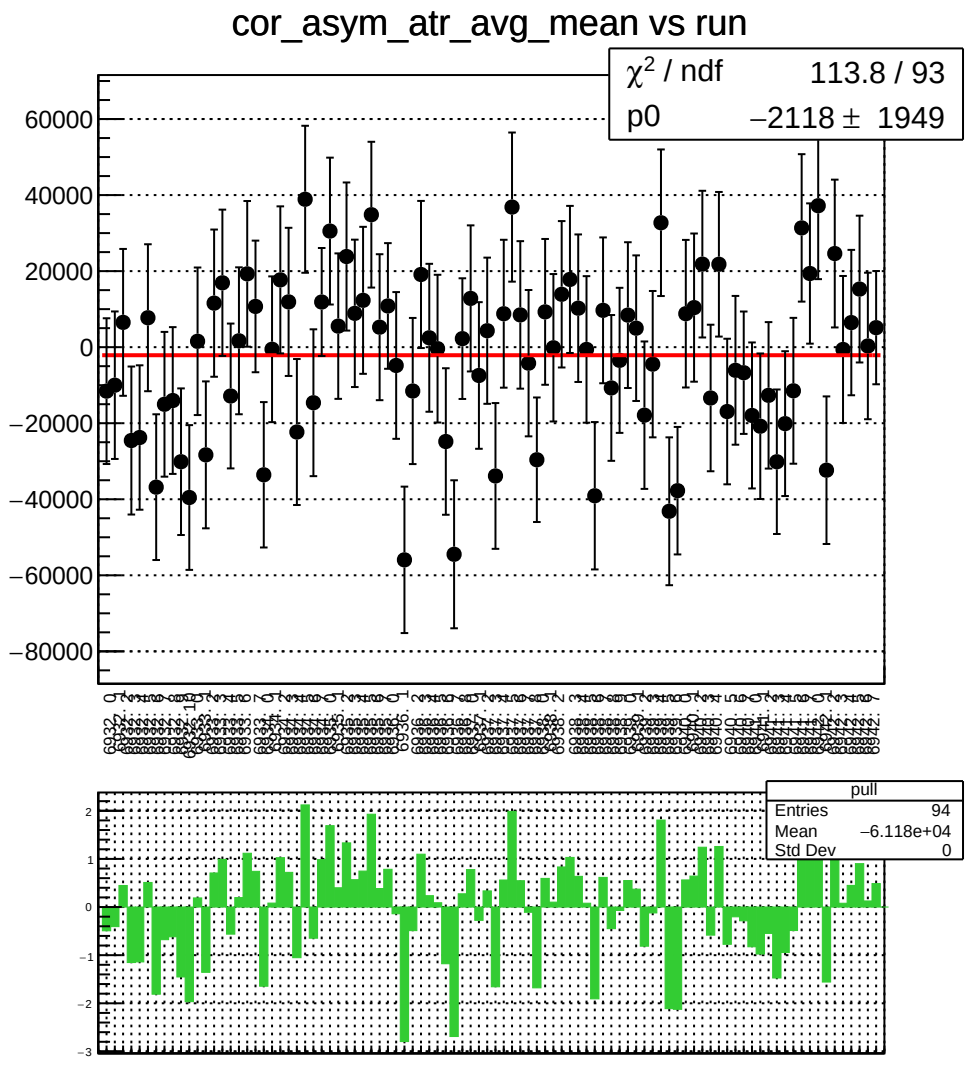

pull1D
Entries 94
Mean −4.643e−05
Std Dev 1.1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

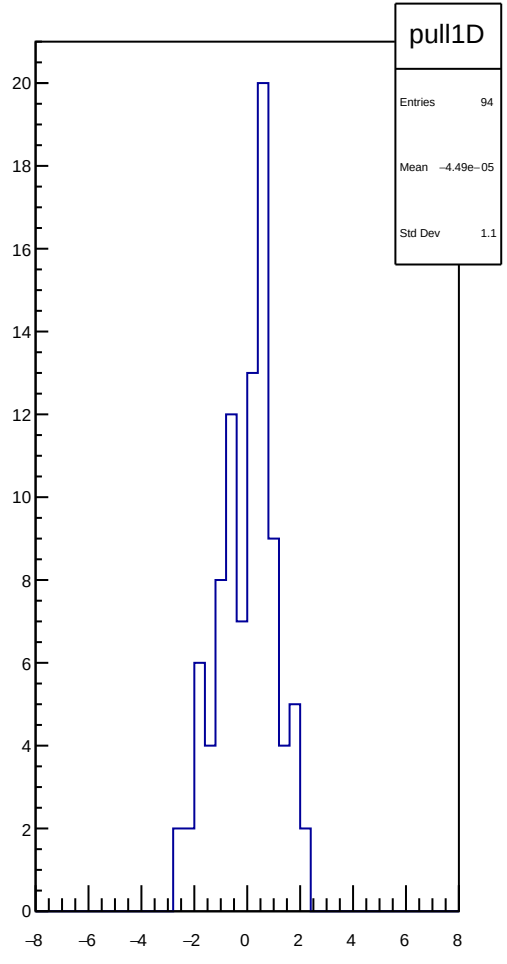

reg_asym_atr_avg_rms vs run
χ² / ndf 97.75 / 93
p0 1830 ± 1.378
1880
1860
1840
1820
1800
1780

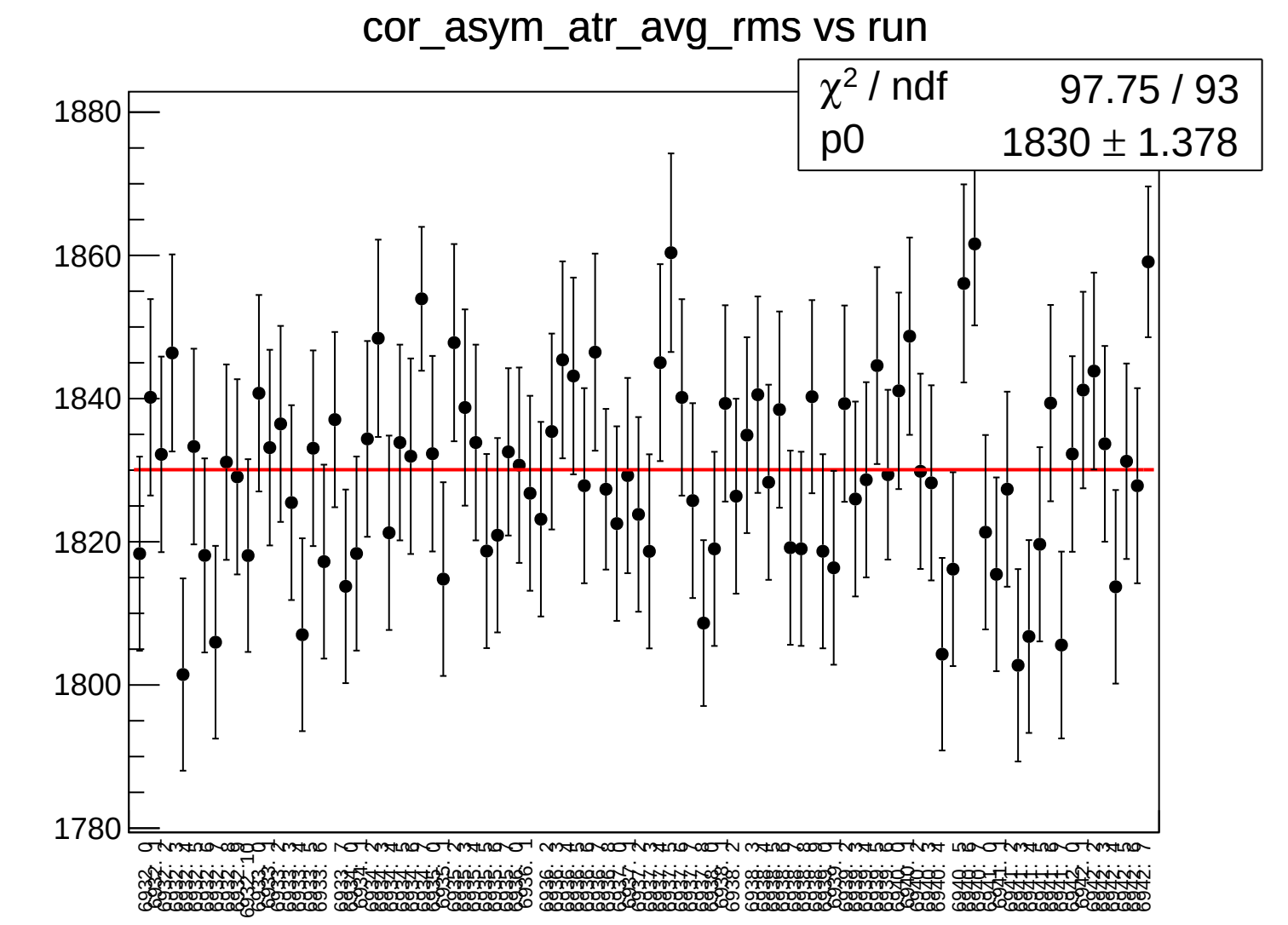

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.62 / 93
p0 6582 ± 5845
pull
Entries 94
Mean 480.9
Std Dev 0

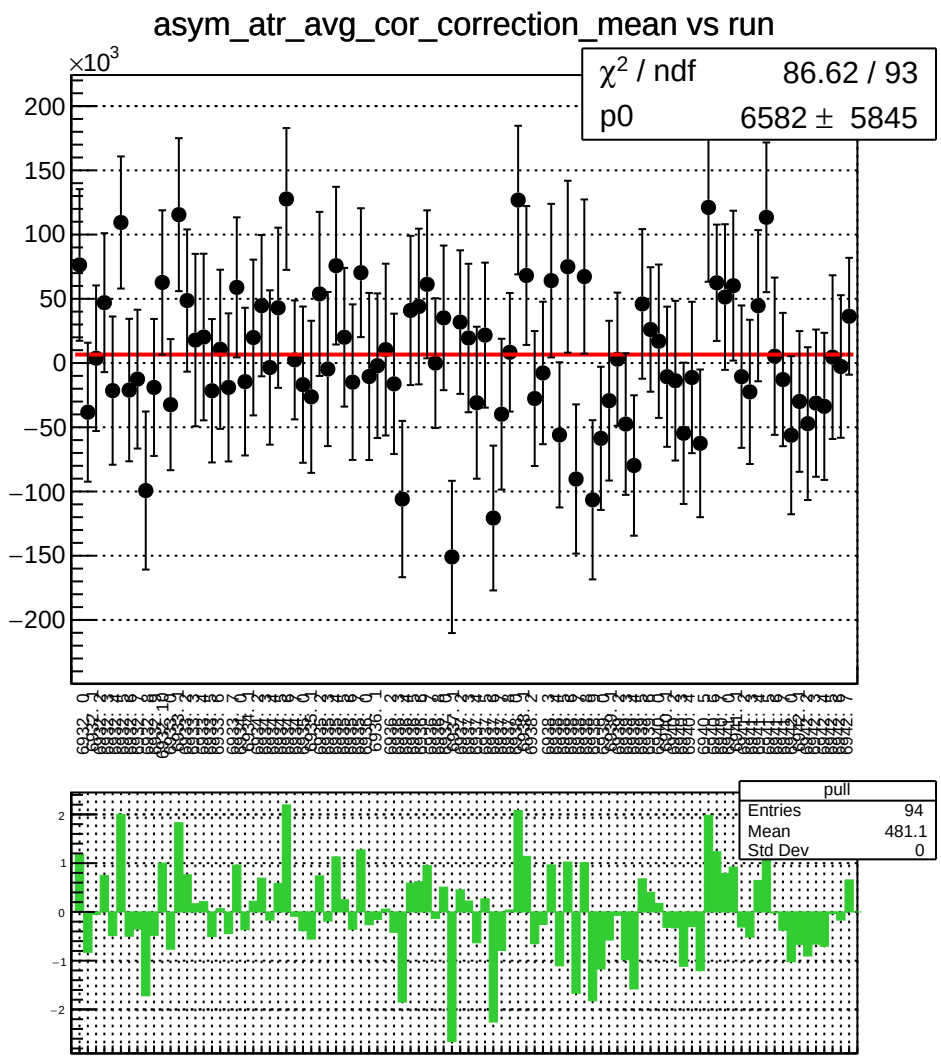

pull1D
Entries 94
Mean −0.007141
Std Dev 0.9599

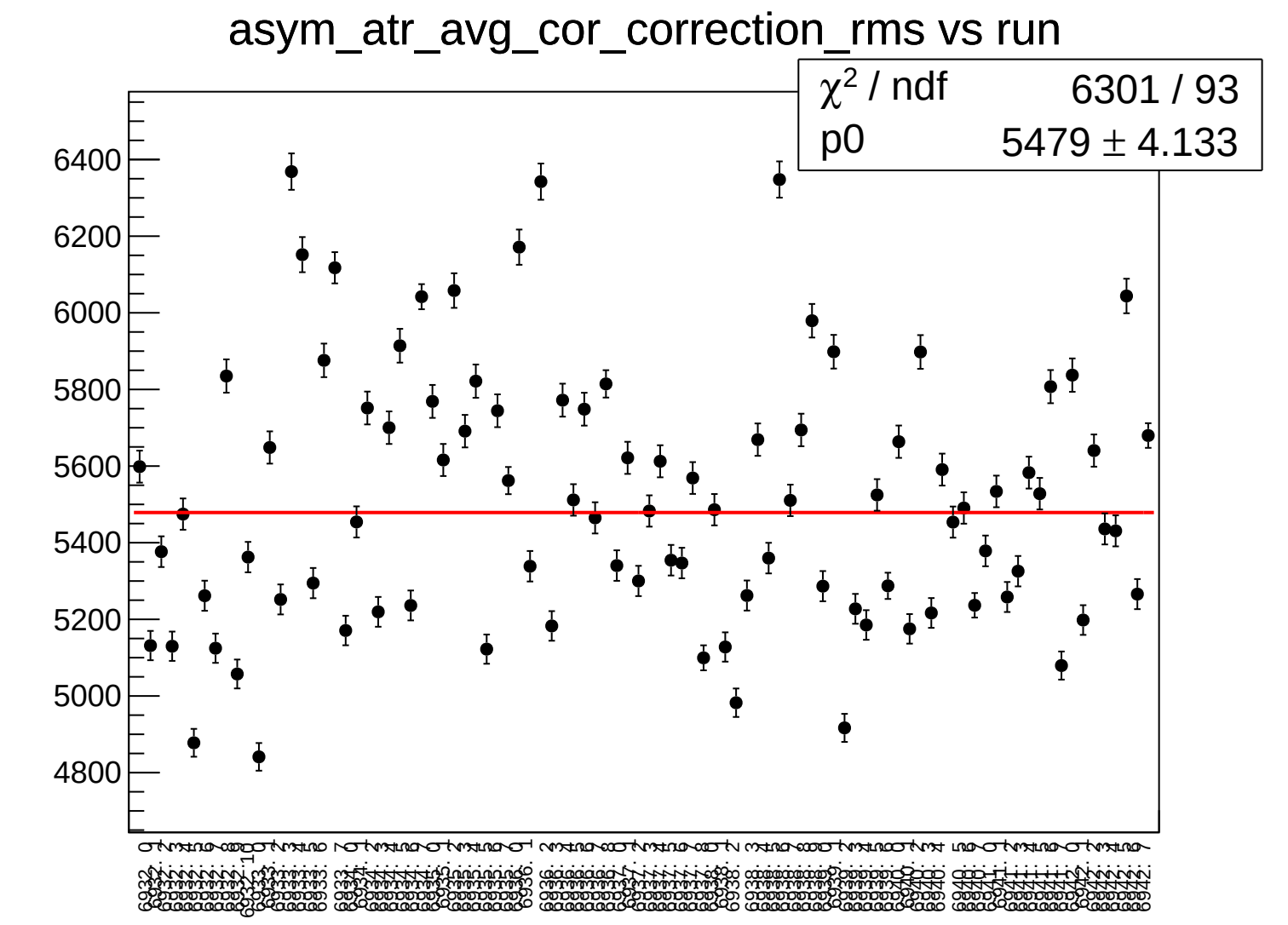

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 6301 / 93
p0 5479 ± 4.133
6400
6200
6000
5800
5600
5400
5200
5000
4800

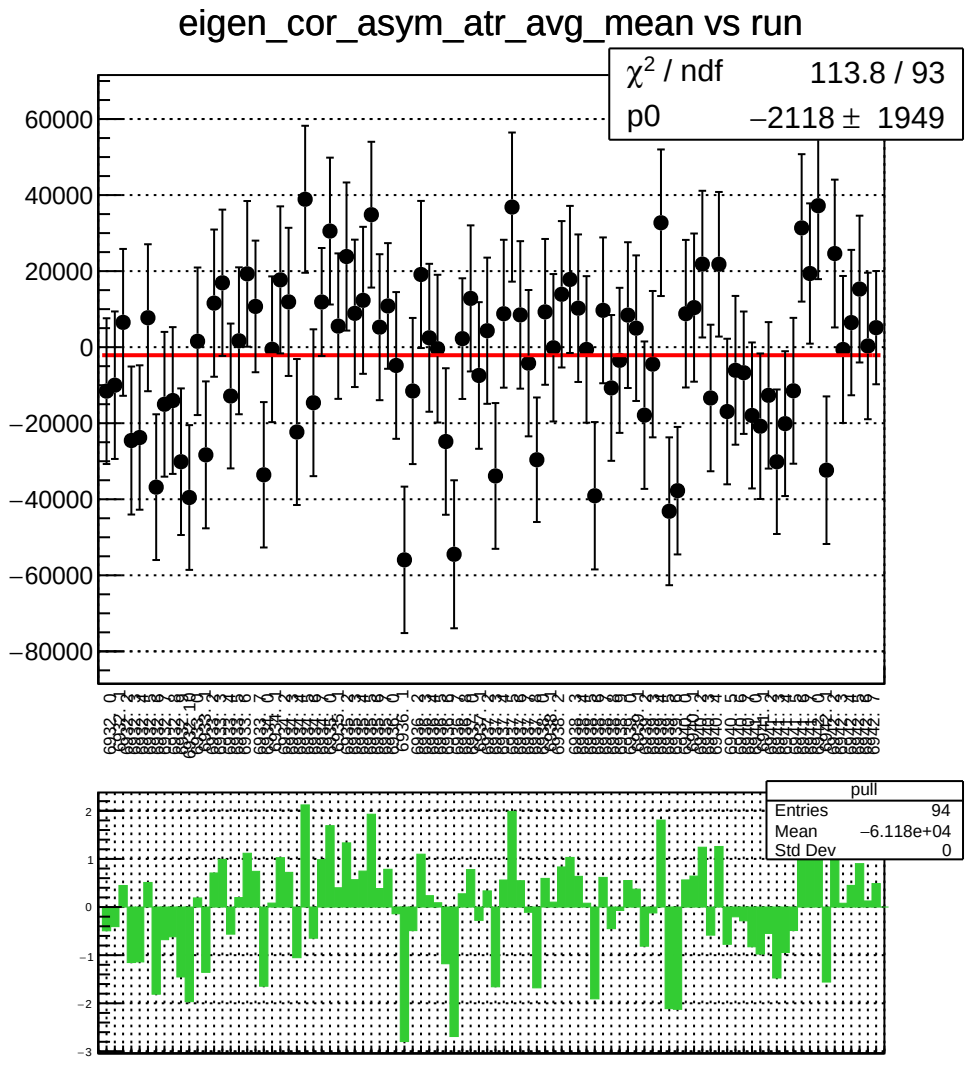

cor_asym_atr_avg_mean vs run
χ² / ndf 113.8 / 93
p0 −2118 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −6.118e+04
Std Dev 0
2
1
0
−1
−2
−3

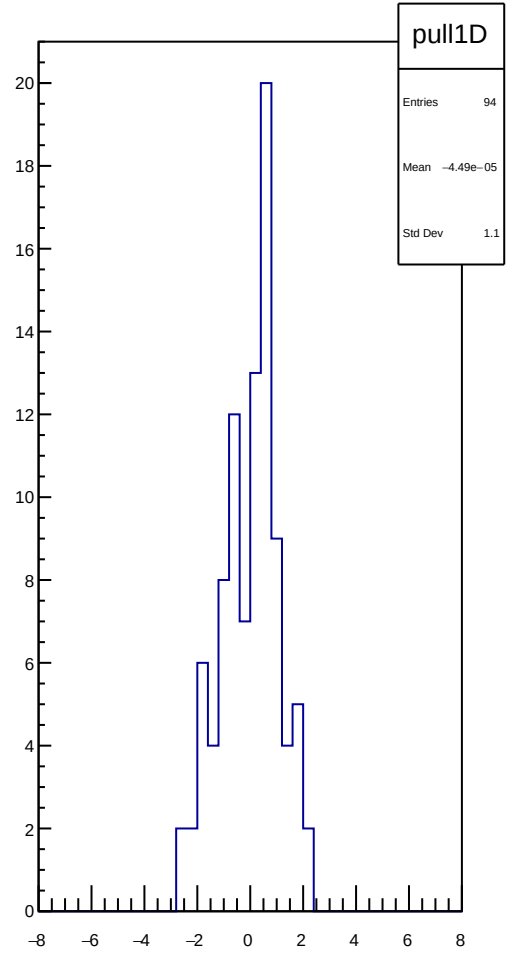

pull1D
Entries 94
Mean −4.49e−05
Std Dev 1.1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

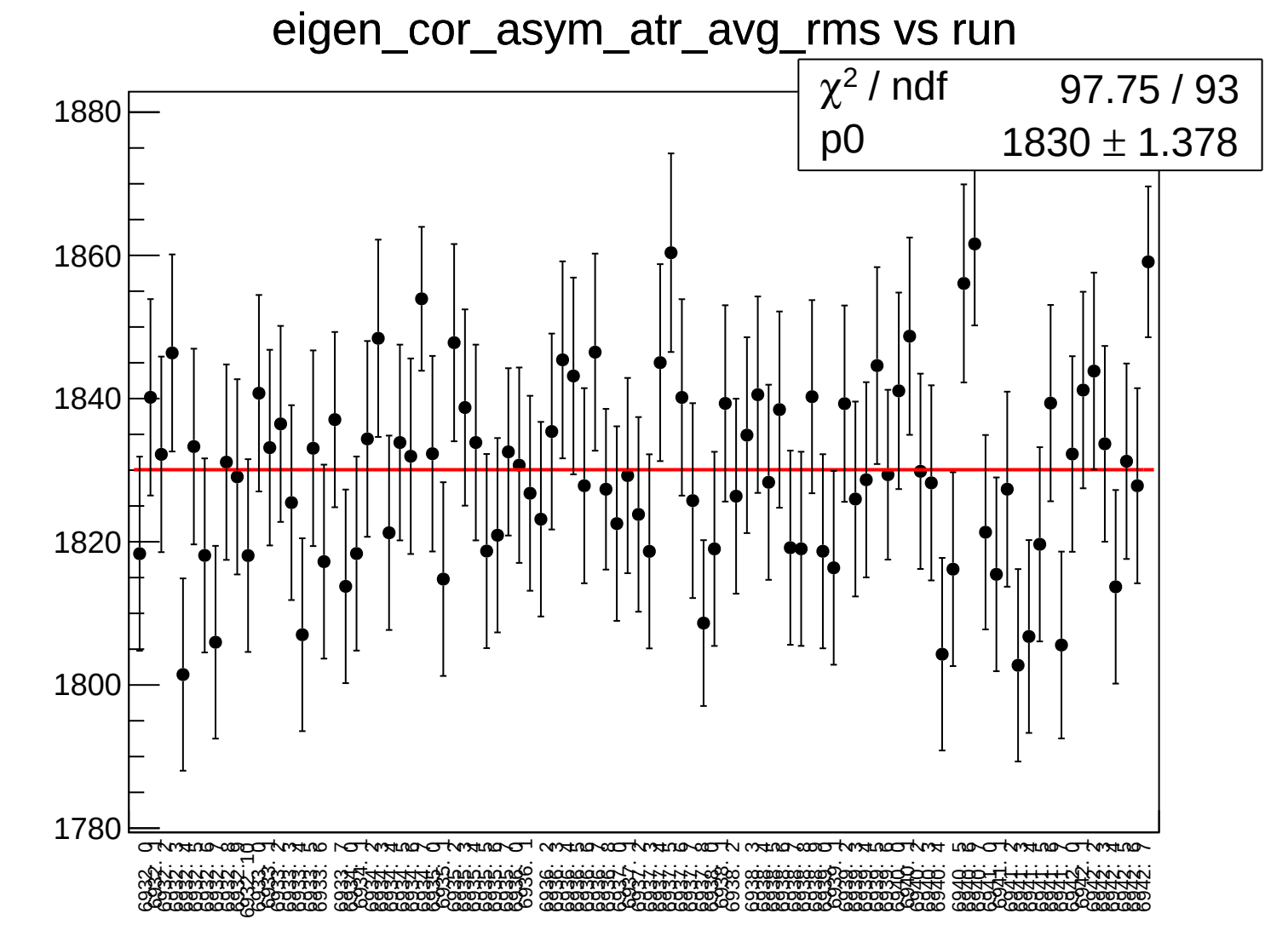

cor_asym_atr_avg_rms vs run
χ² / ndf 97.75 / 93
p0 1830 ± 1.378
1880
1860
1840
1820
1800
1780

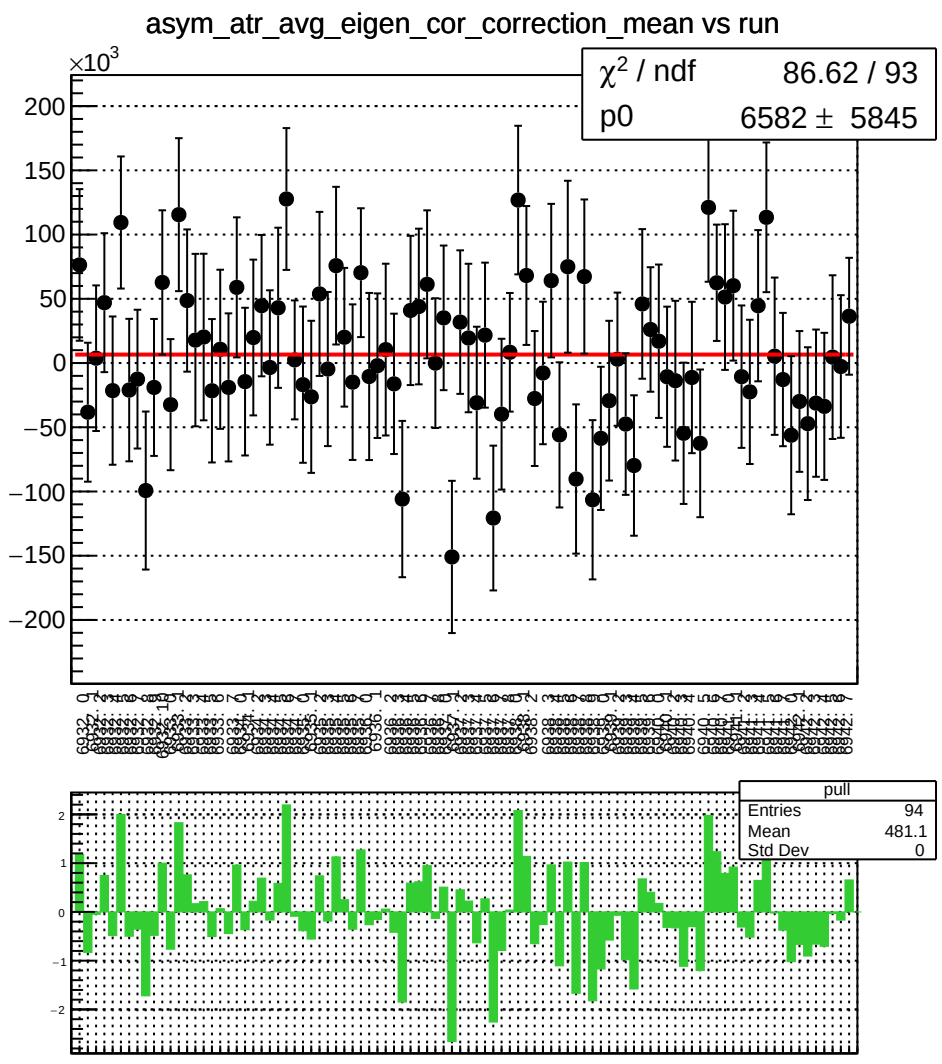

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 86.62 / 93
p0 6582 ± 5845
pull
Entries 94
Mean 481.1
Std Dev 0
pull1D
Entries 94
Mean −0.007138
Std Dev 0.9599

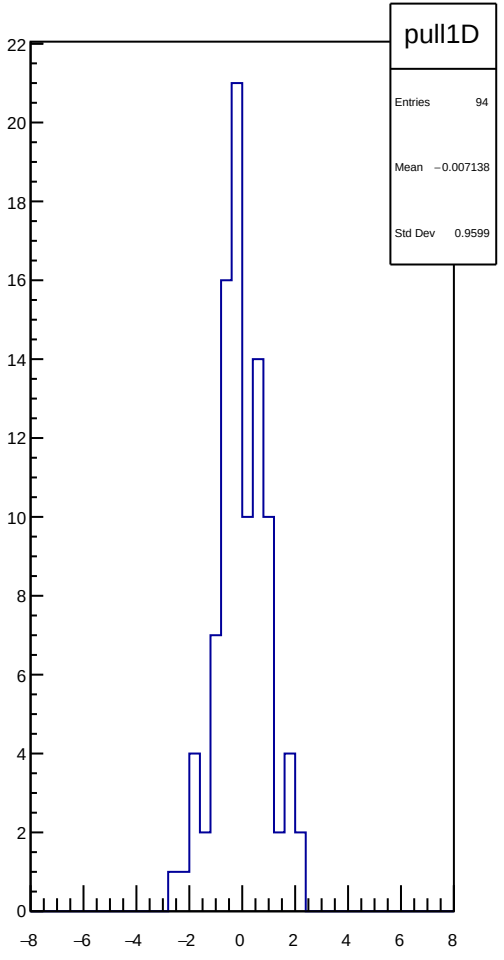

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 6301 / 93
p0 5479 ± 4.133
6400
6200
6000
5800
5600
5400
5200
5000
4800

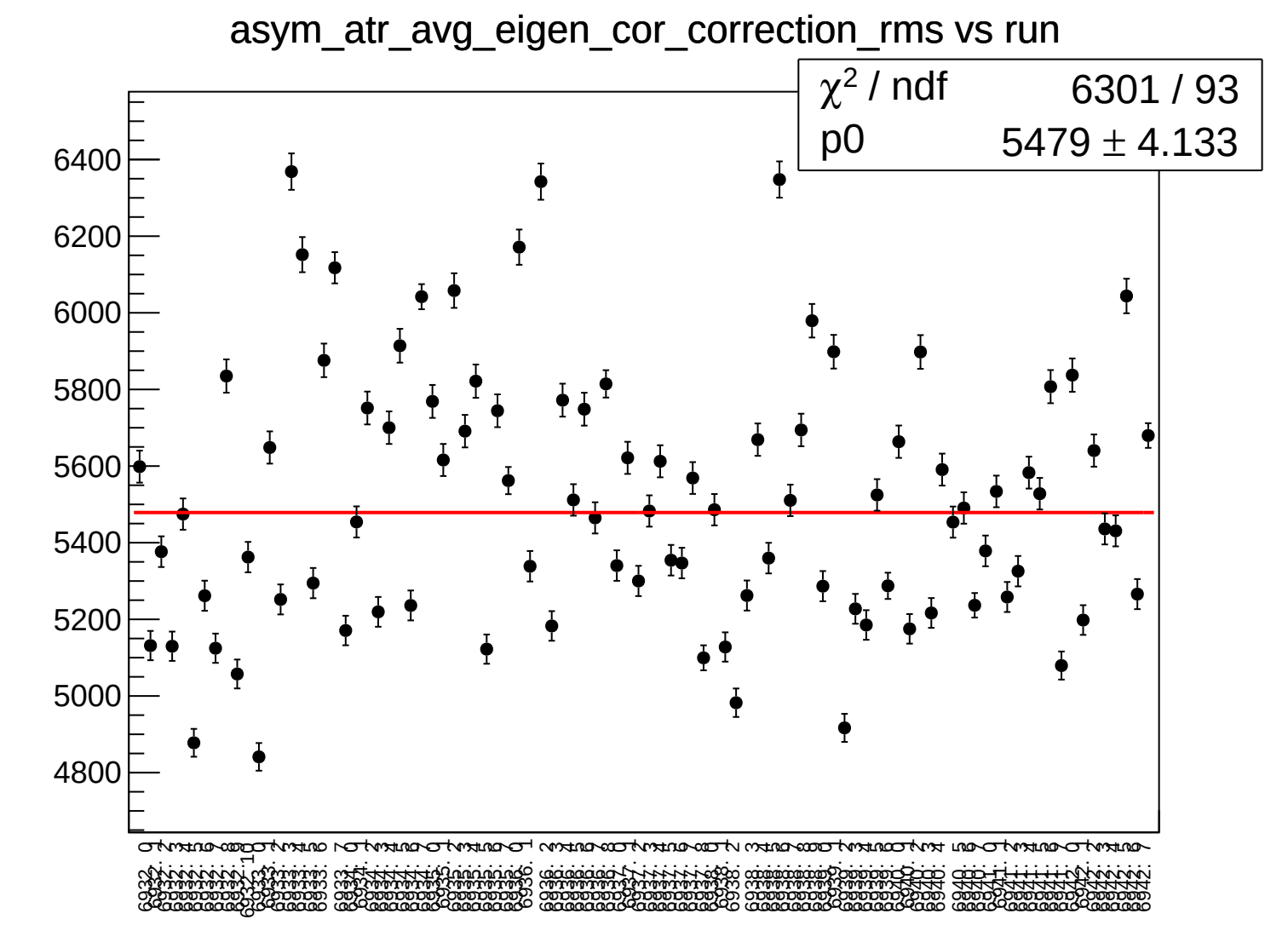

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 113.8 / 93
p0 −2118 ± 1949
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −6.118e+04
Std Dev 0
2
1
0
−1
−2
−3

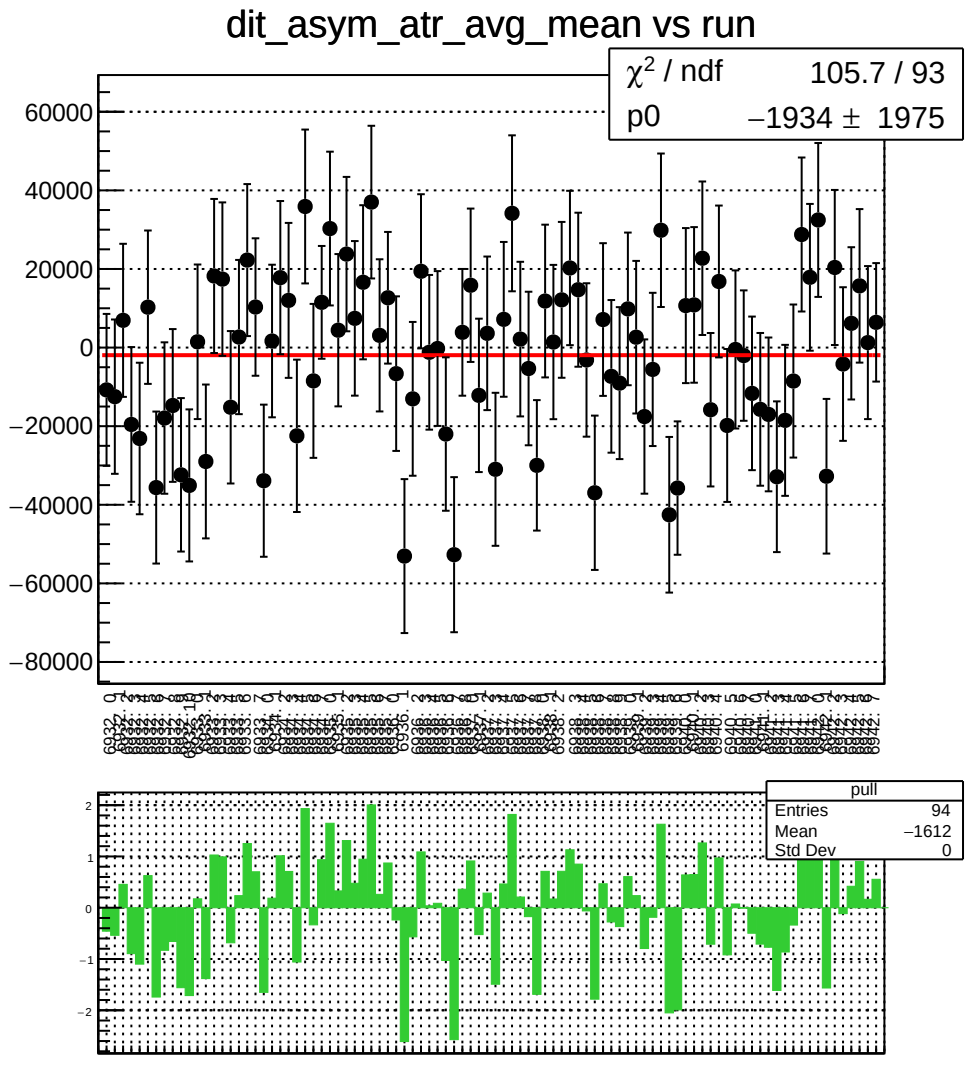

pull1D
Entries 94
Mean −4.49e−05
Std Dev 1.1
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

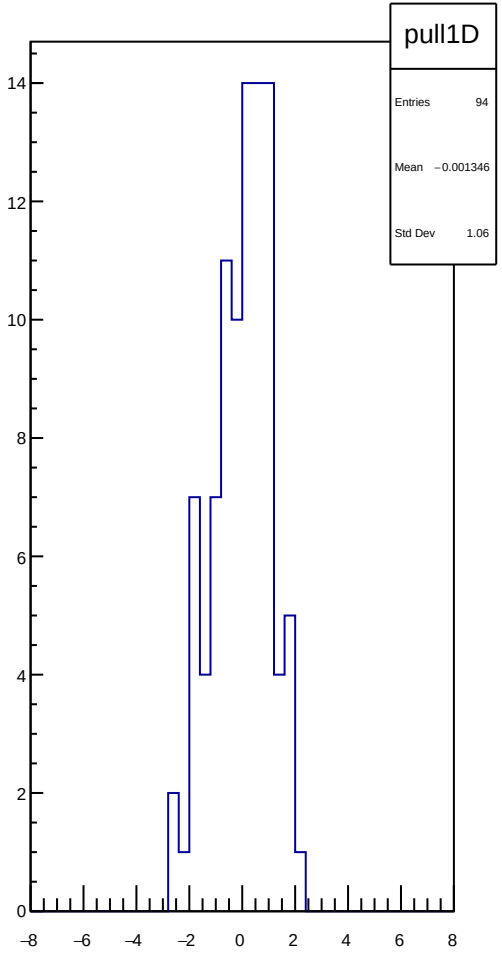

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 97.75 / 93
p0 1830 ± 1.378
1880
1860
1840
1820
1800
1780

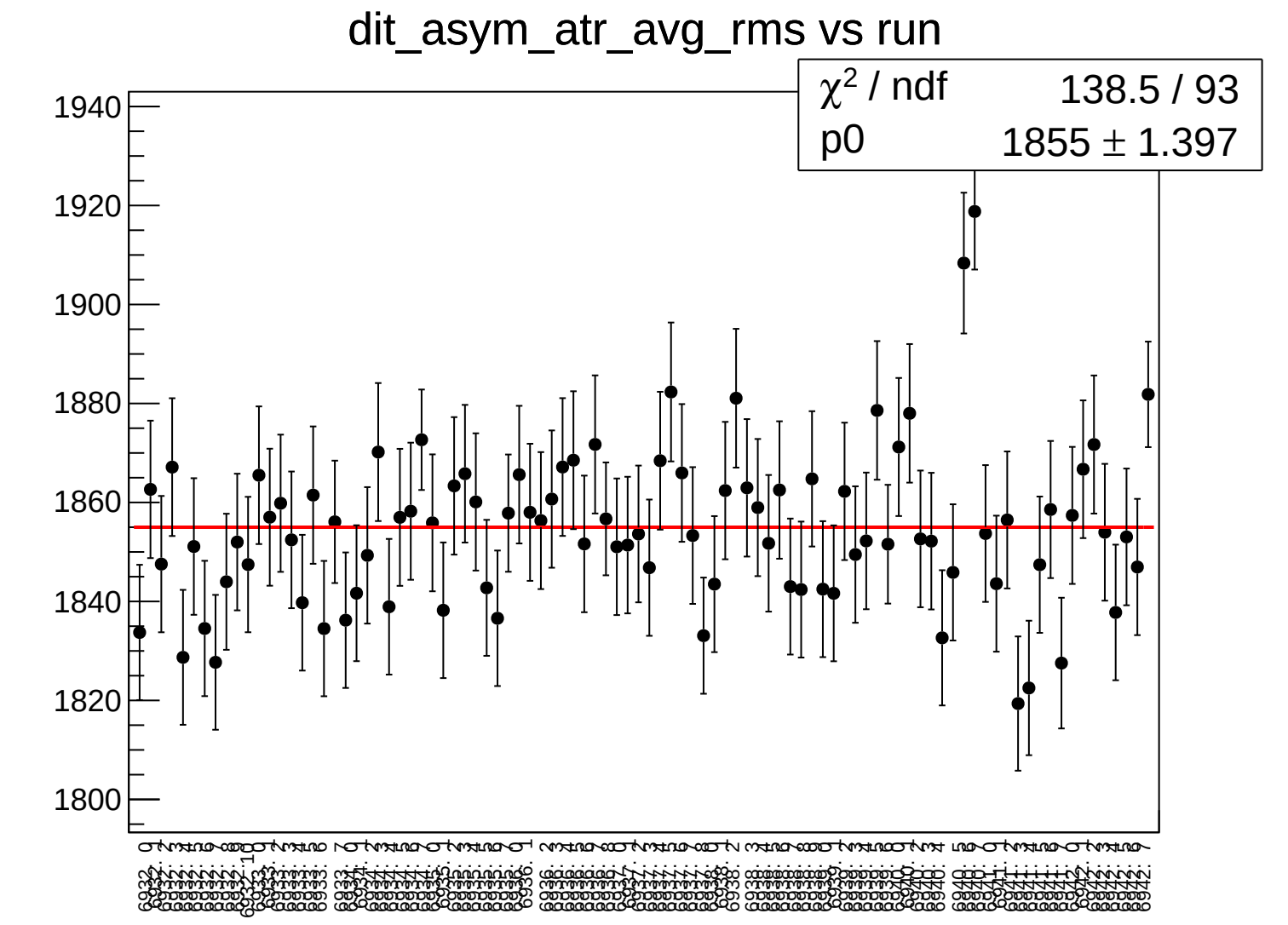

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.62 / 93
p0 6582 ± 5845
×10³
pull
Entries 94
Mean 481.1
Std Dev 0

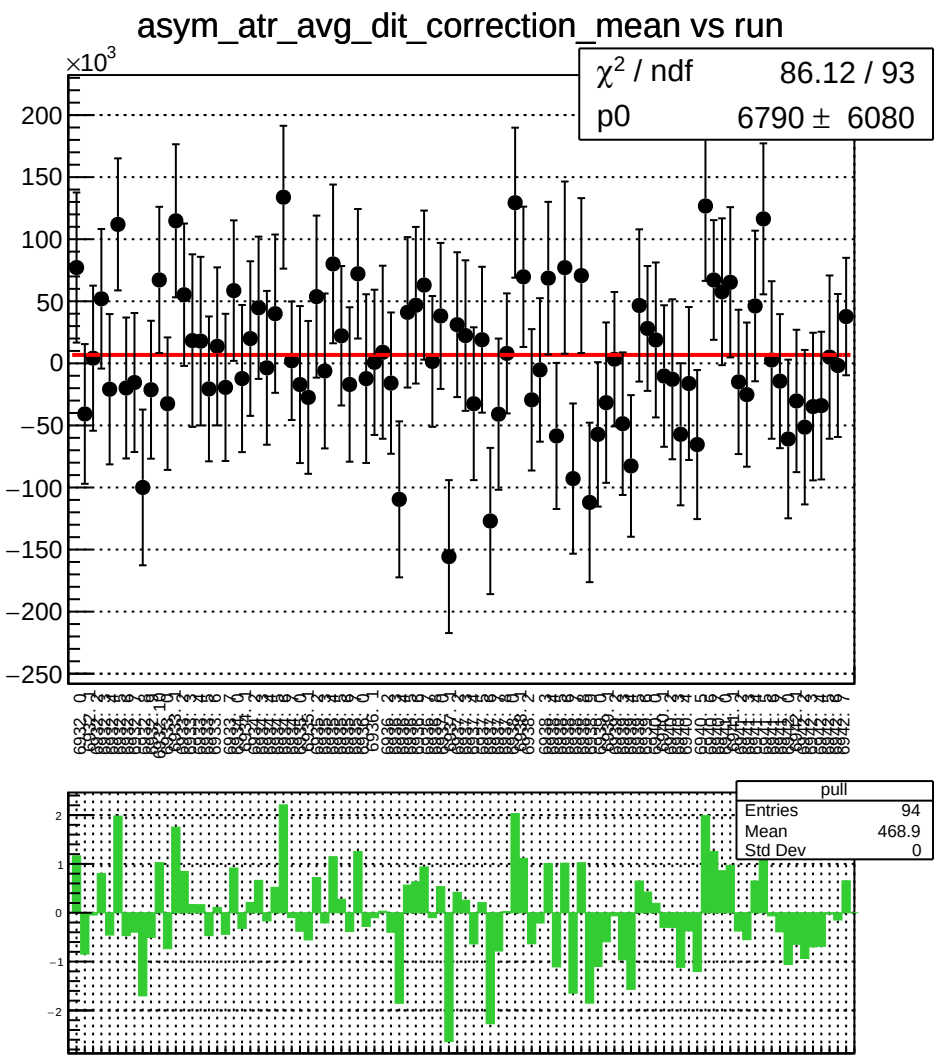

pull1D
Entries 94
Mean −0.007138
Std Dev 0.9599

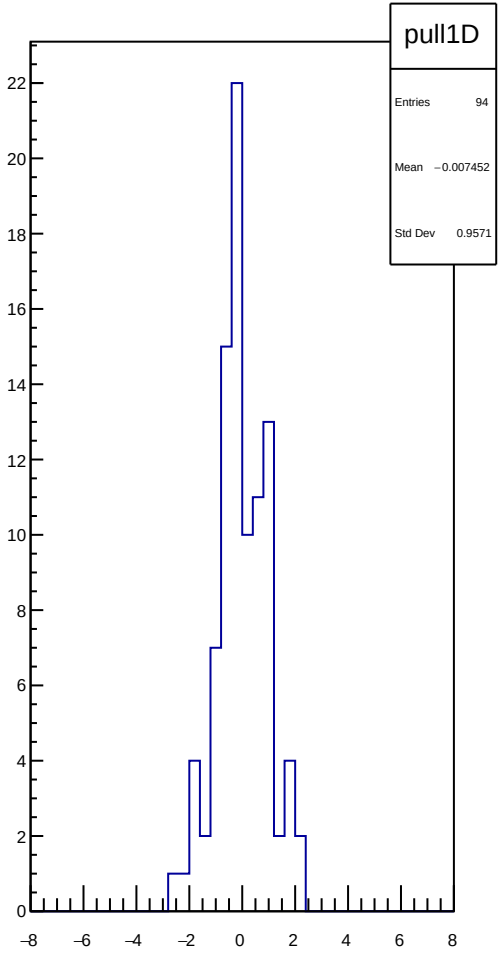

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 6301 / 93
p0 5479 ± 4.133
6400
6200
6000
5800
5600
5400
5200
5000
4800

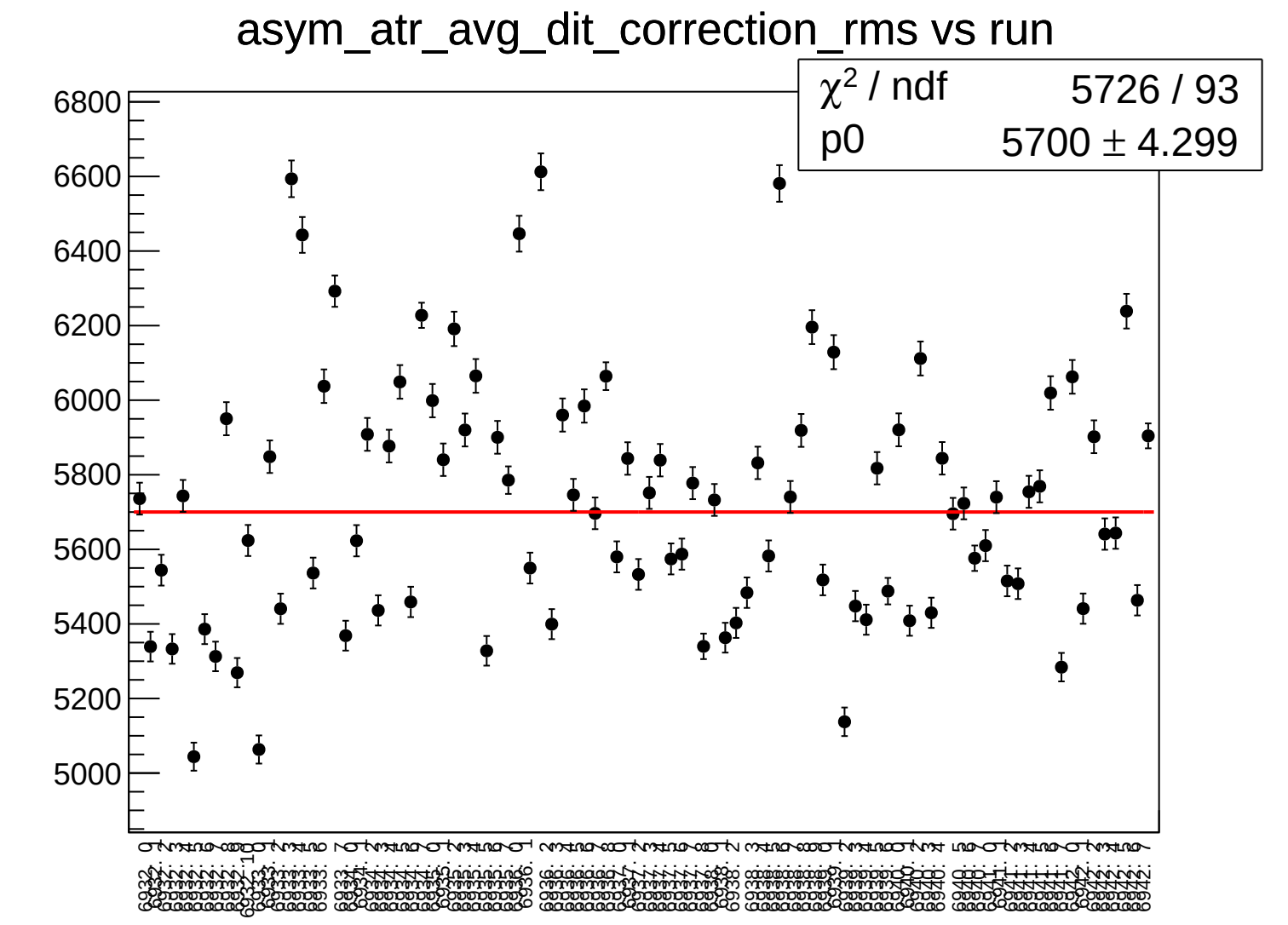

dit_asym_atr_avg_mean vs run
χ² / ndf 105.7 / 93
p0 −1934 ± 1975
pull
Entries 94
Mean −1612
Std Dev 0

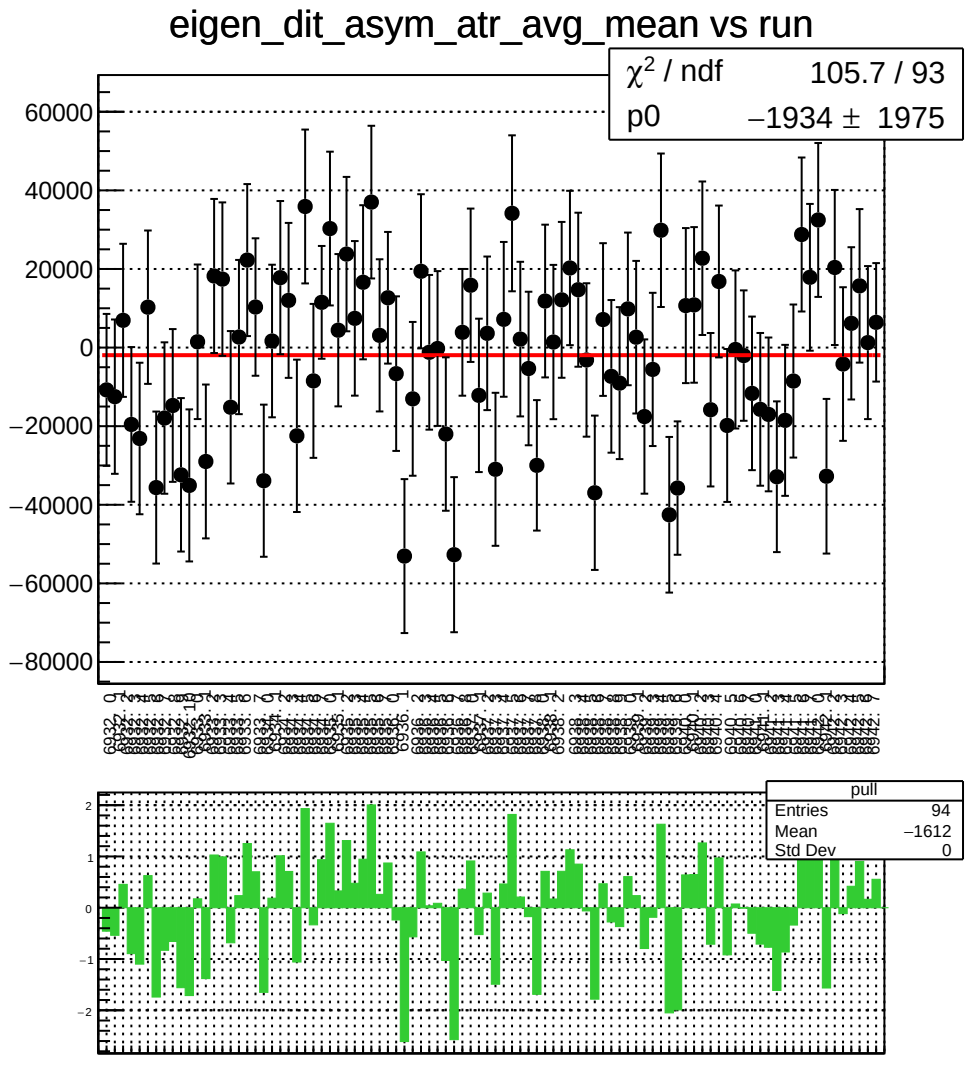

pull1D
Entries 94
Mean −0.001346
Std Dev 1.06

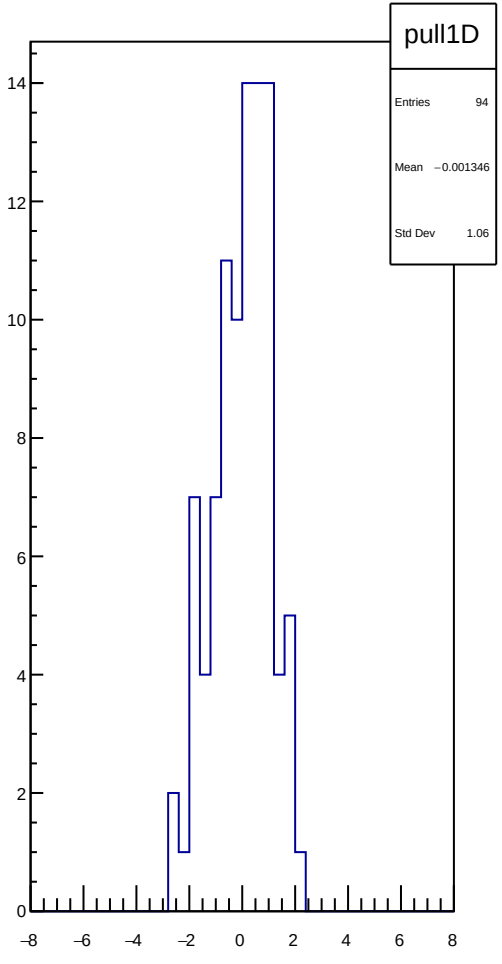

dit_asym_atr_avg_rms vs run
χ² / ndf 138.5 / 93
p0 1855 ± 1.397
1940
1920
1900
1880
1860
1840
1820
1800

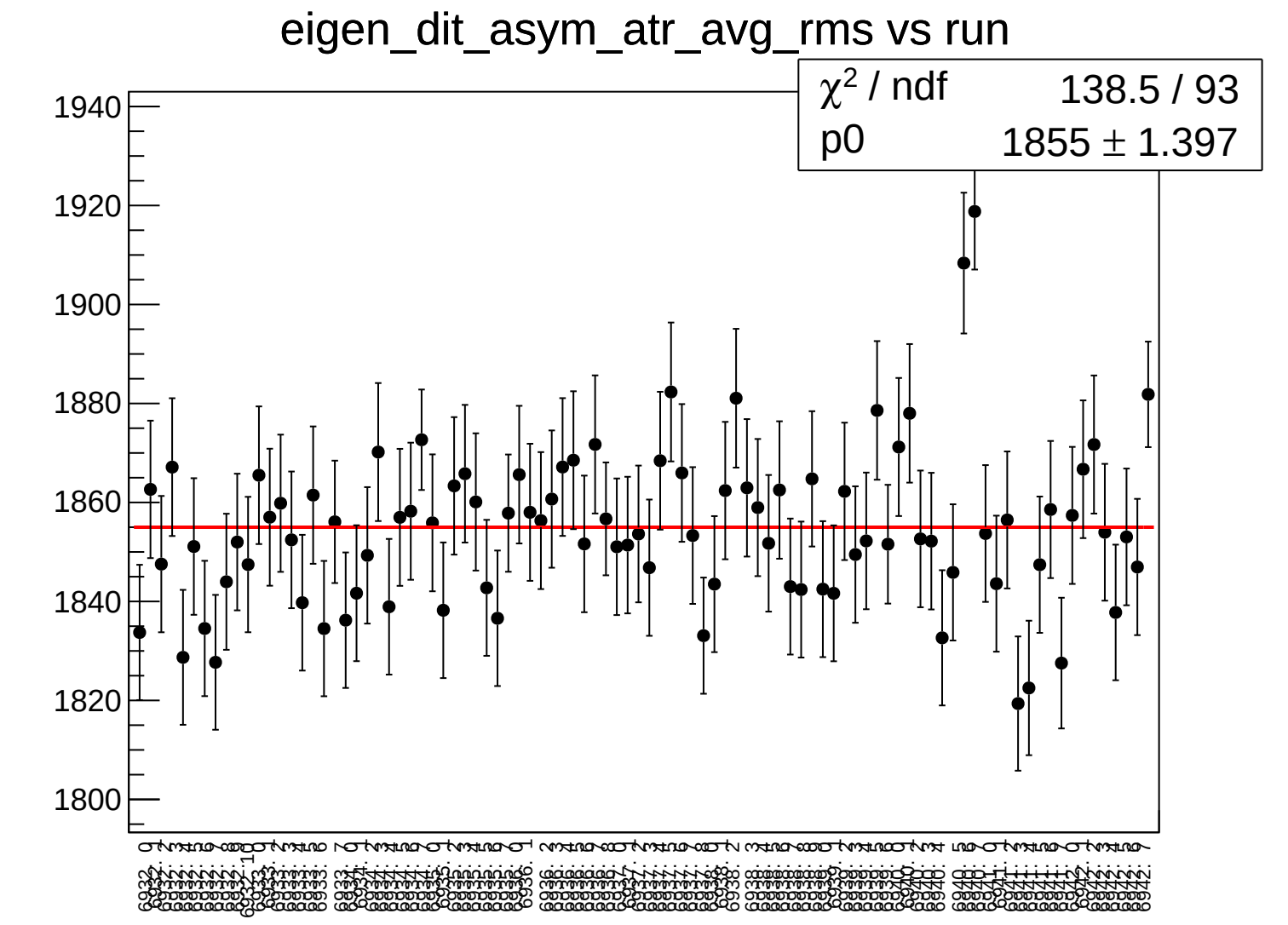

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.12 / 93
p0 6790 ± 6080
pull
Entries 94
Mean 468.9
Std Dev 0

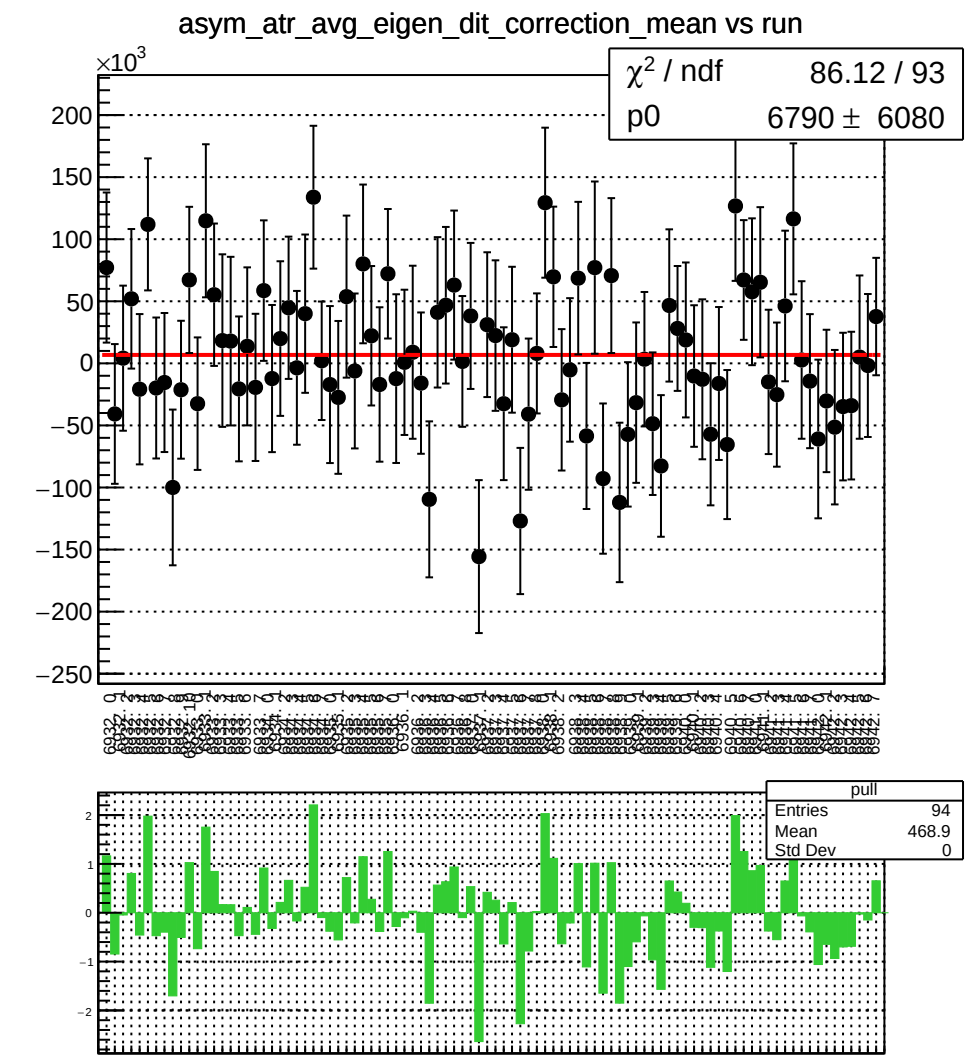

pull1D
Entries 94
Mean −0.007452
Std Dev 0.9571

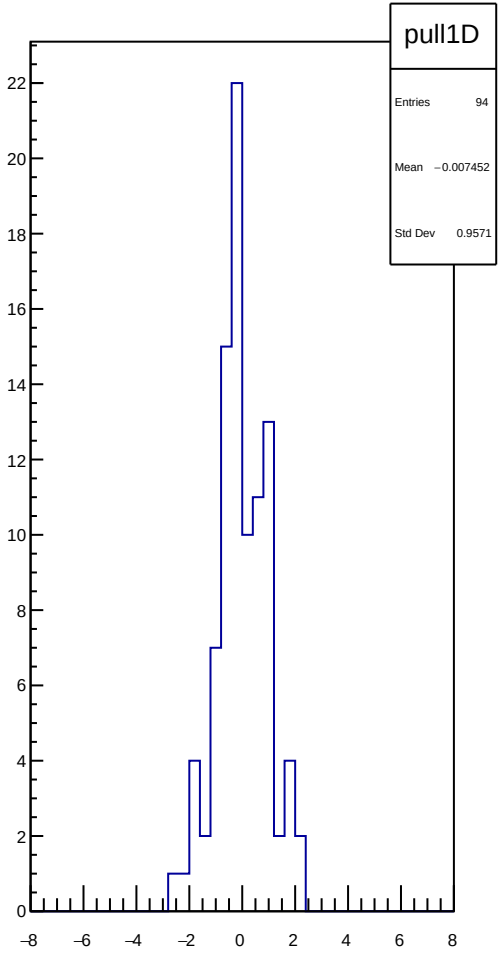

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 5726 / 93
p0 5700 ± 4.299
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

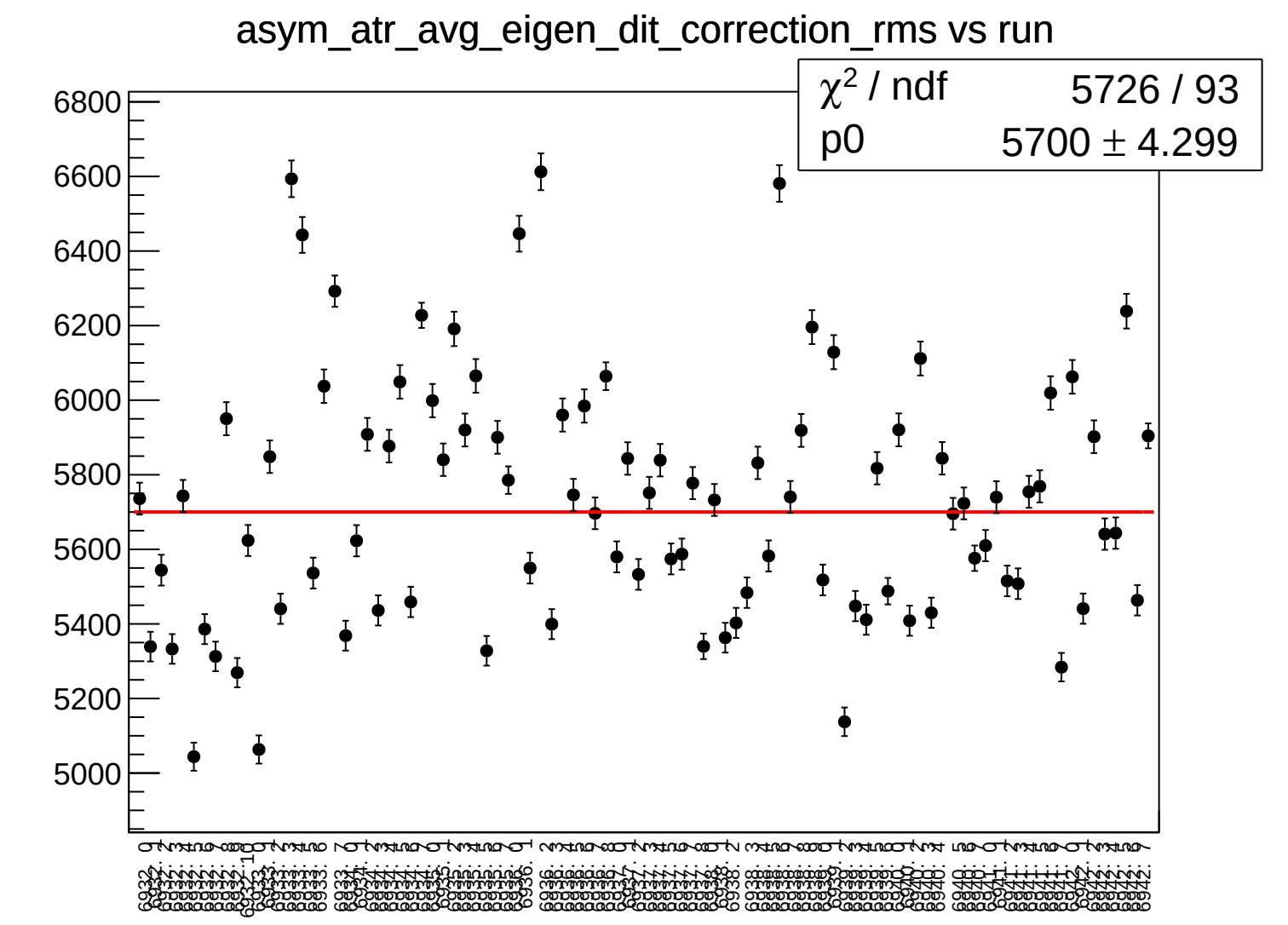

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 105.7 / 93
p0 −1934 ± 1975
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −1612
Std Dev 0
2
1
0
−1
−2

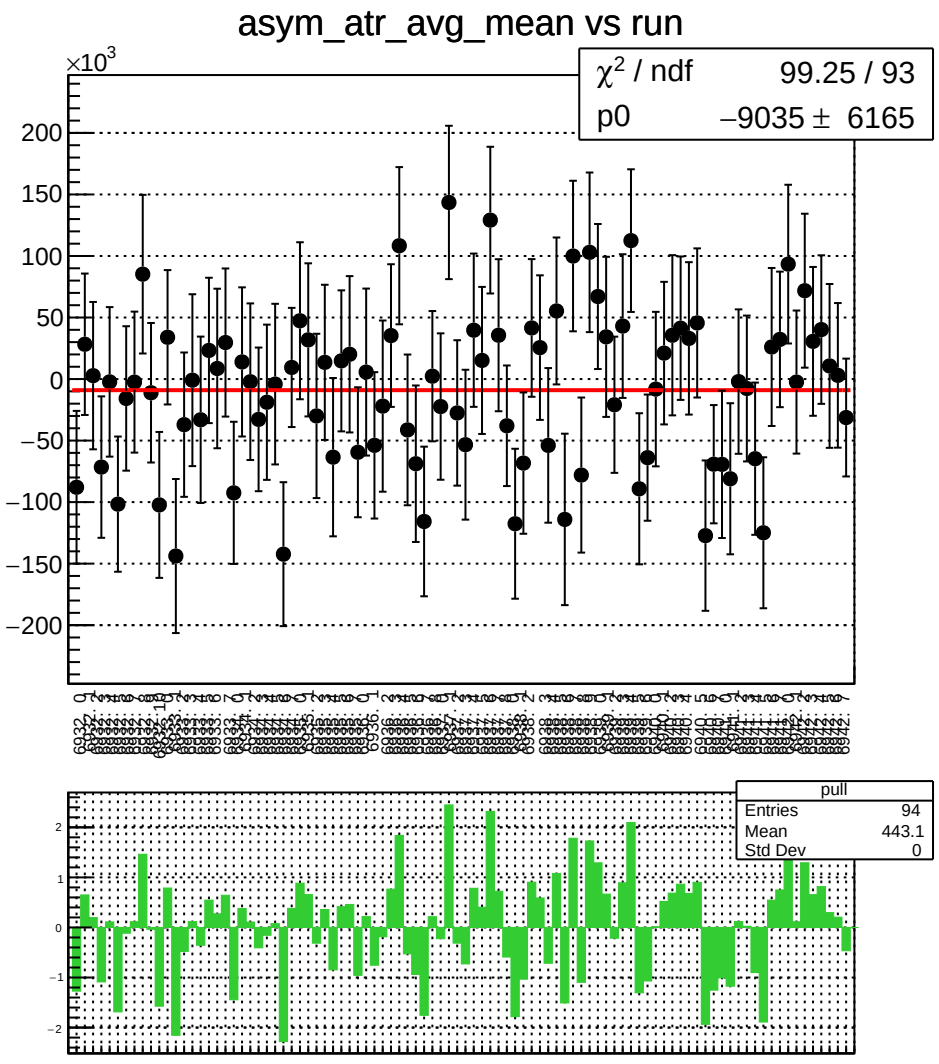

pull1D
Entries 94
Mean −0.001346
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

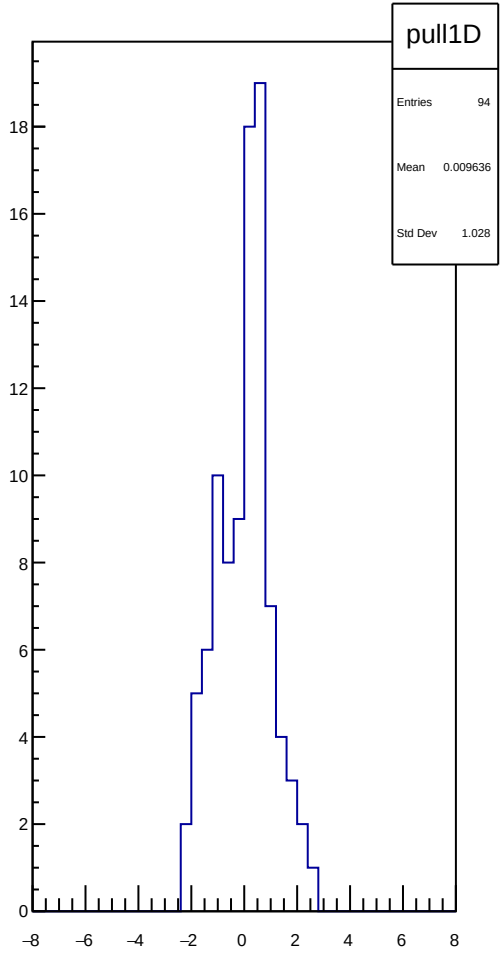

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 138.5 / 93
p0 1855 ± 1.397
1940
1920
1900
1880
1860
1840
1820
1800

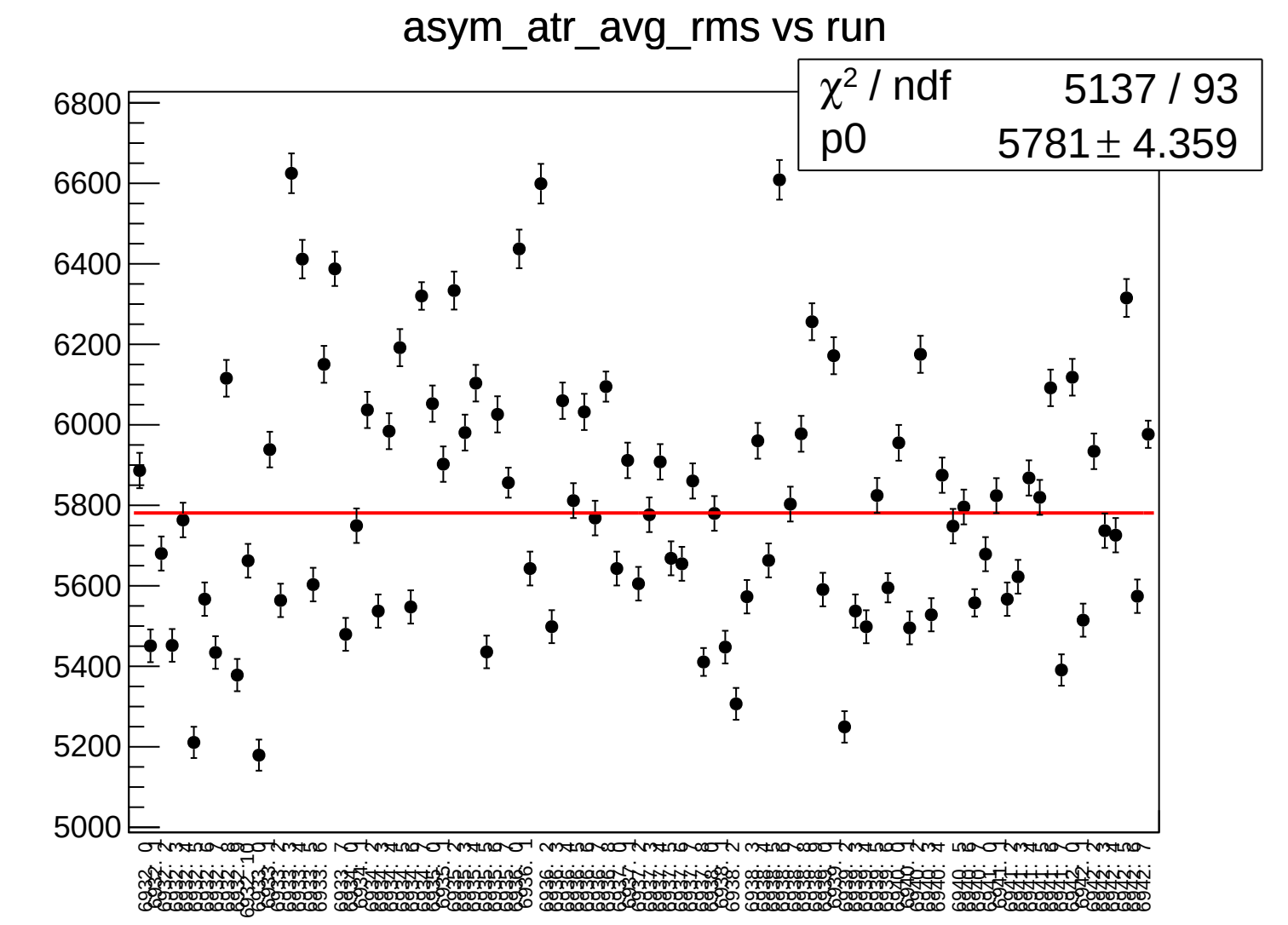

asym_atr_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.12 / 93
p0 6790 ± 6080
×10³
pull
Entries 94
Mean 468.9
Std Dev 0

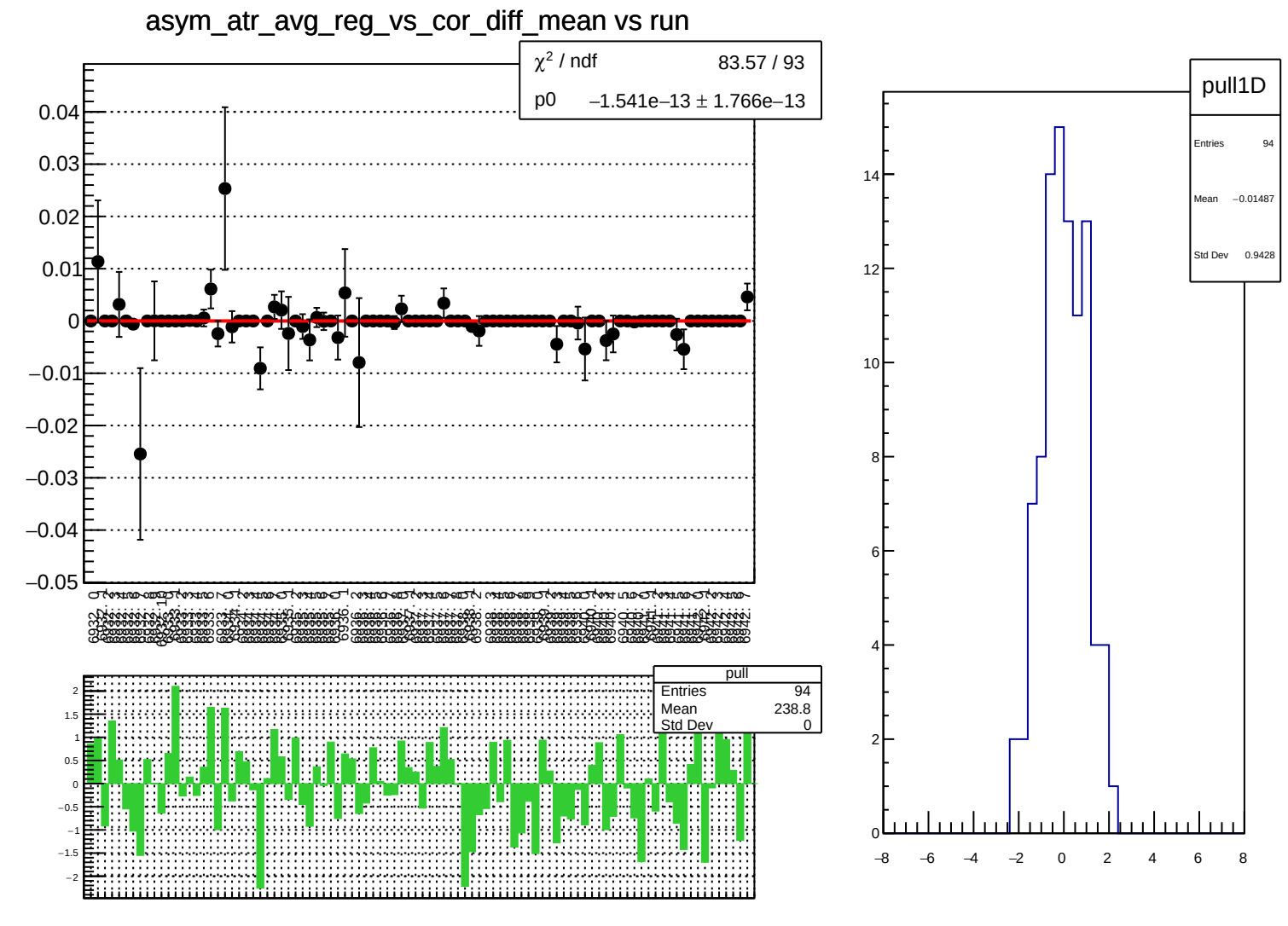

pull1D
Entries 94
Mean −0.007452
Std Dev 0.9571

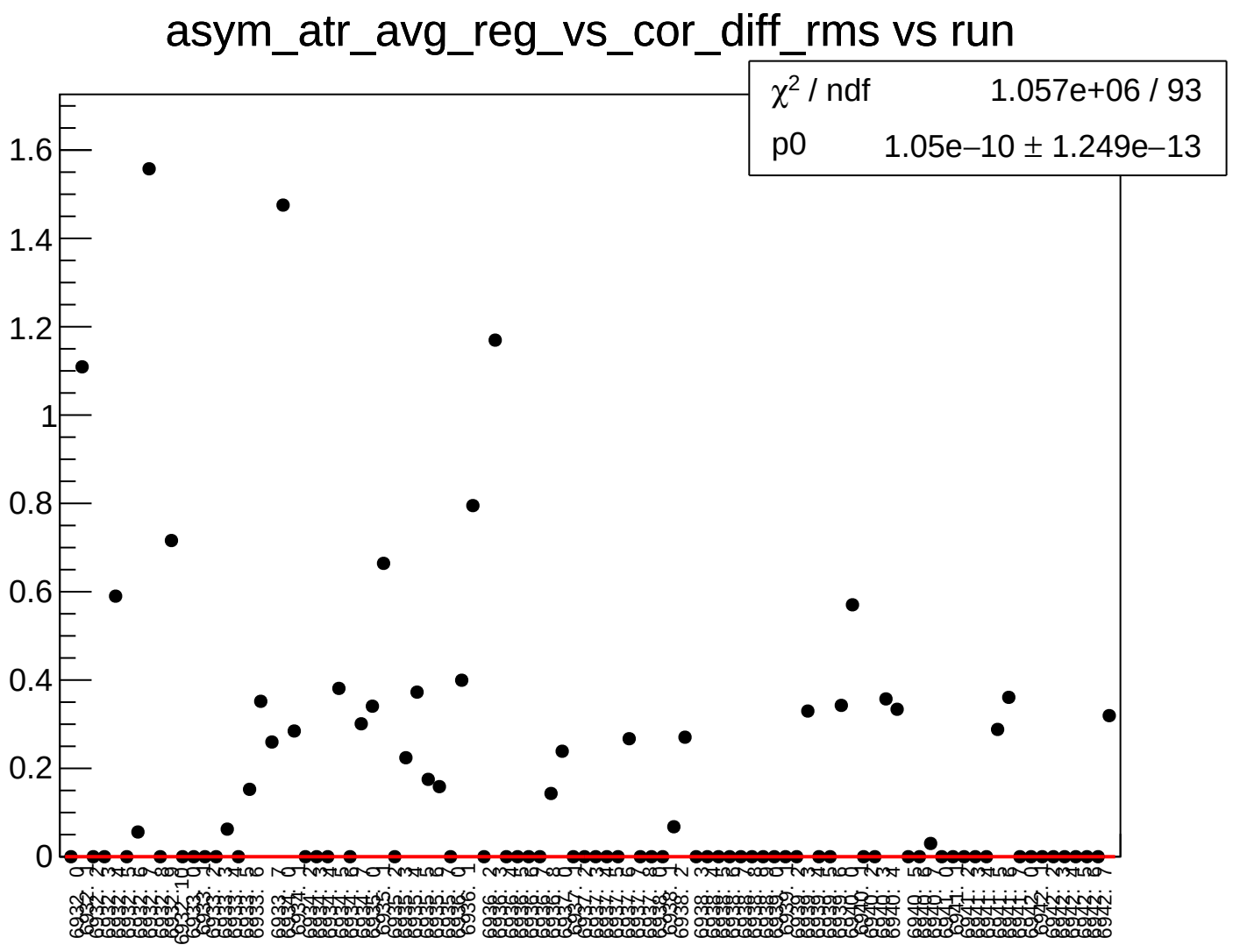

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 5726 / 93
p0 5700 ± 4.299
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

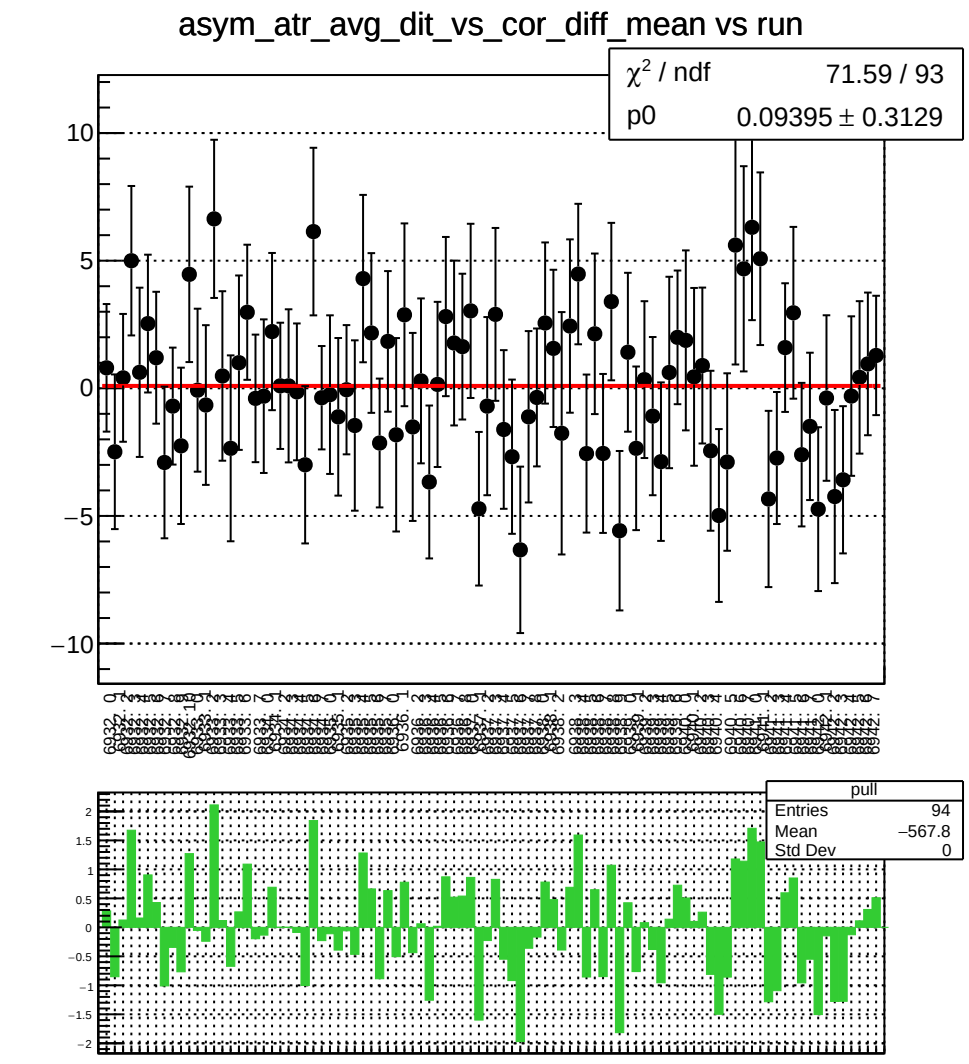

asym_atr_avg_mean vs run
×10^3
χ² / ndf 99.25 / 93
p0 −9035 ± 6165
pull
Entries 94
Mean 443.1
Std Dev 0

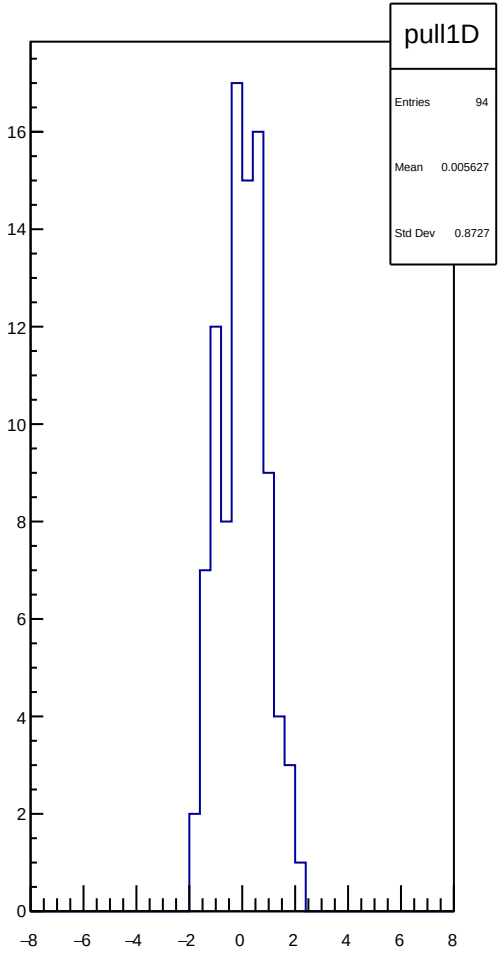

pull1D
Entries 94
Mean 0.009636
Std Dev 1.028

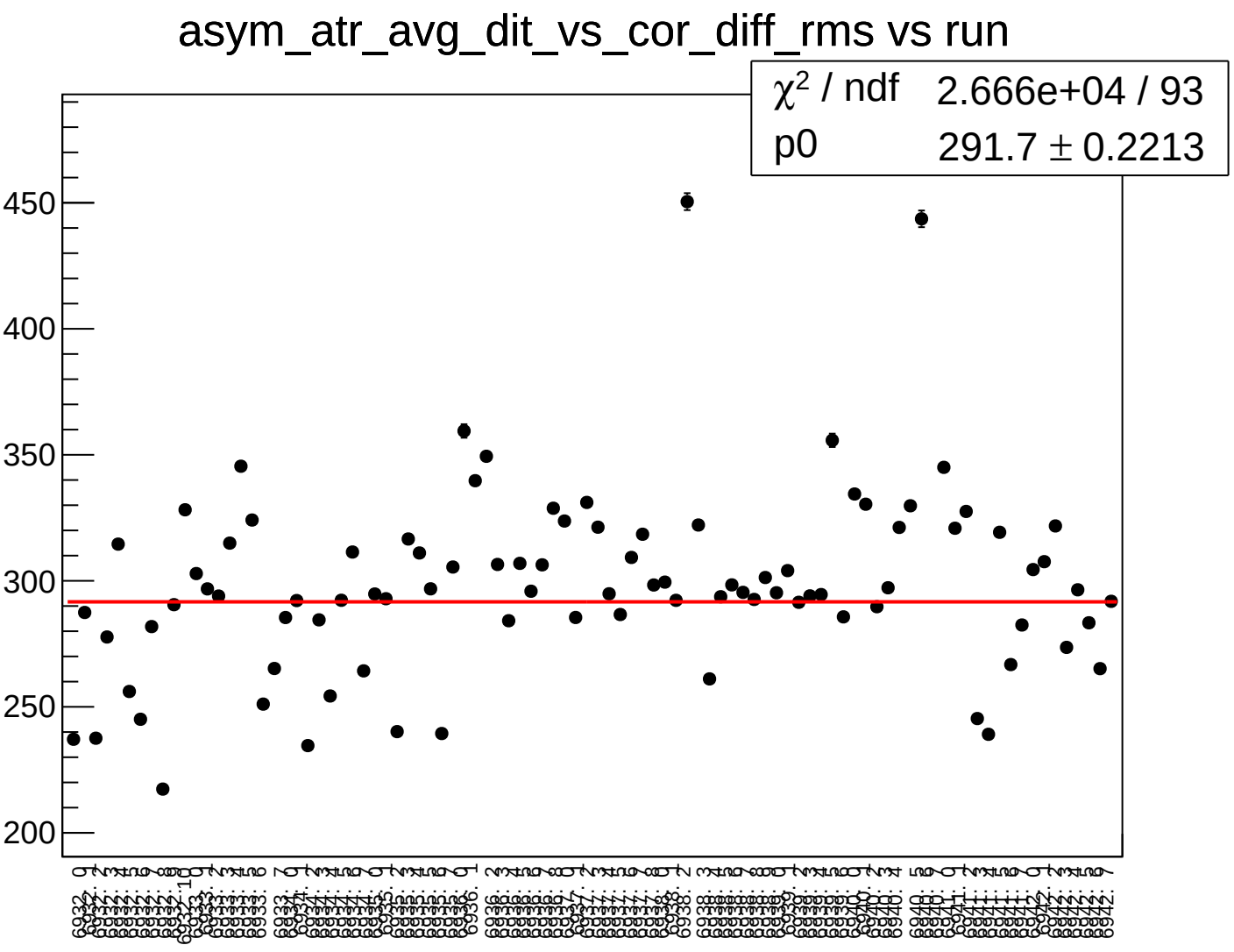

asym_atr_avg_rms vs run
χ² / ndf 5137 / 93
p0 5781 ± 4.359
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

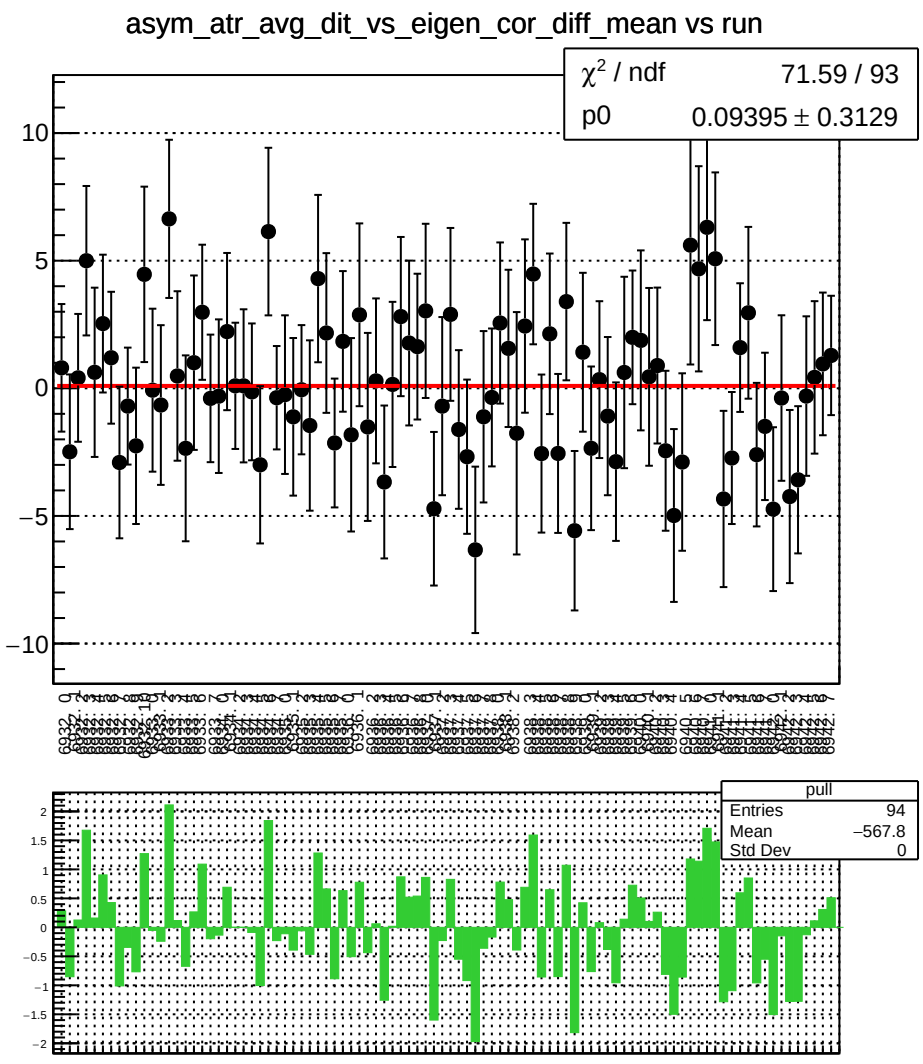

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.57 / 93
p0 −1.541e−13 ± 1.766e−13
pull
Entries 94
Mean 238.8
Std Dev 0
pull1D
Entries 94
Mean −0.01487
Std Dev 0.9428

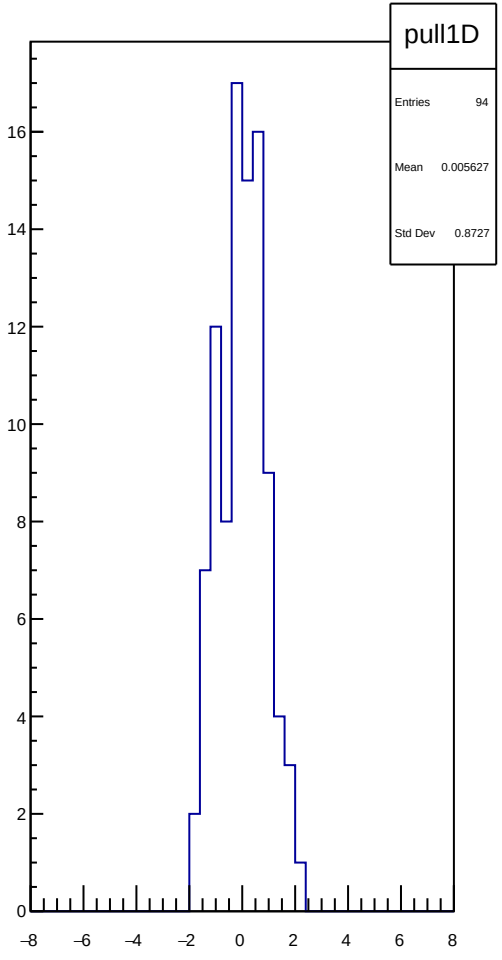

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.057e+06 / 93
p0 1.05e−10 ± 1.249e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

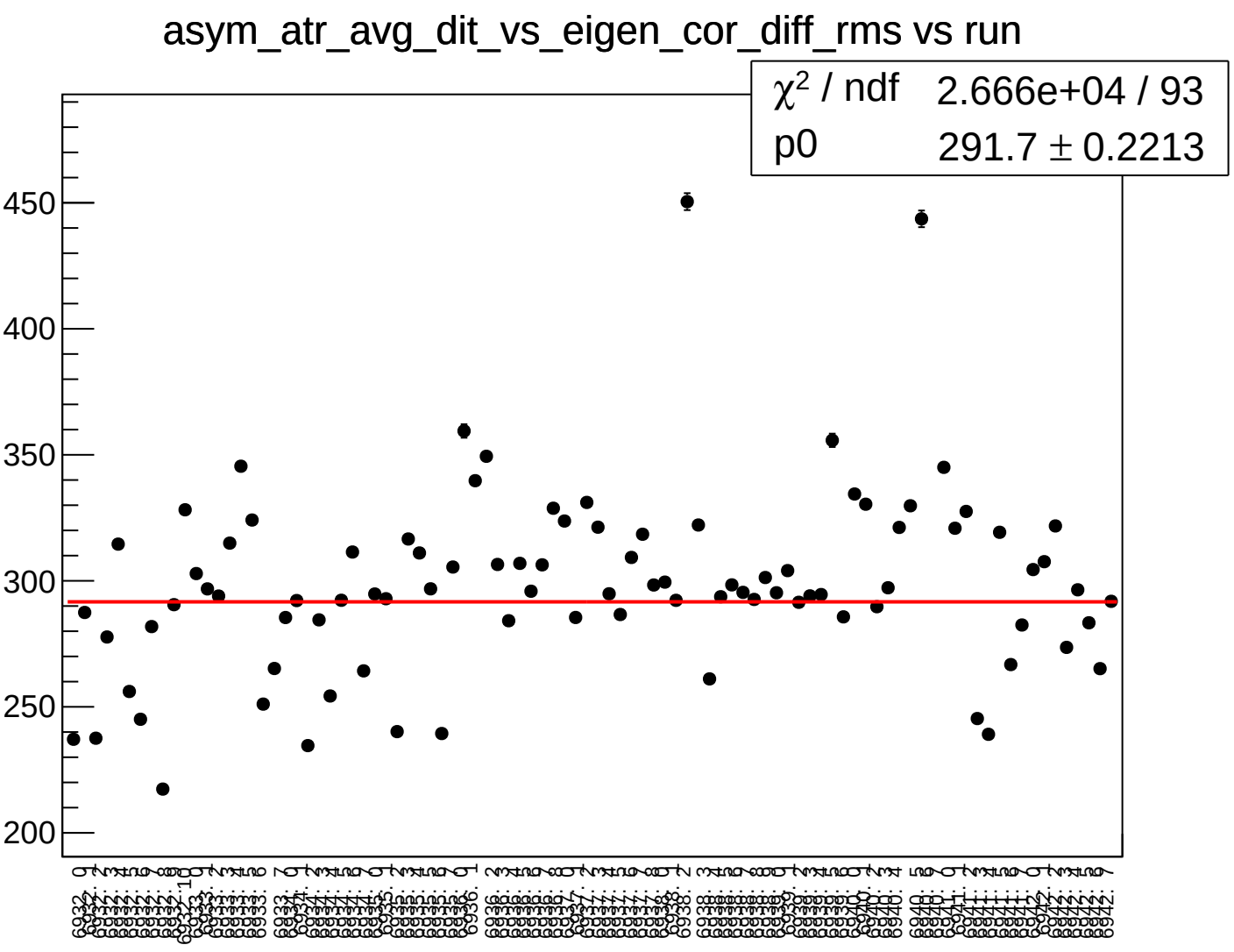

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.59 / 93
p0 0.09395 ± 0.3129
pull
Entries 94
Mean −567.8
Std Dev 0

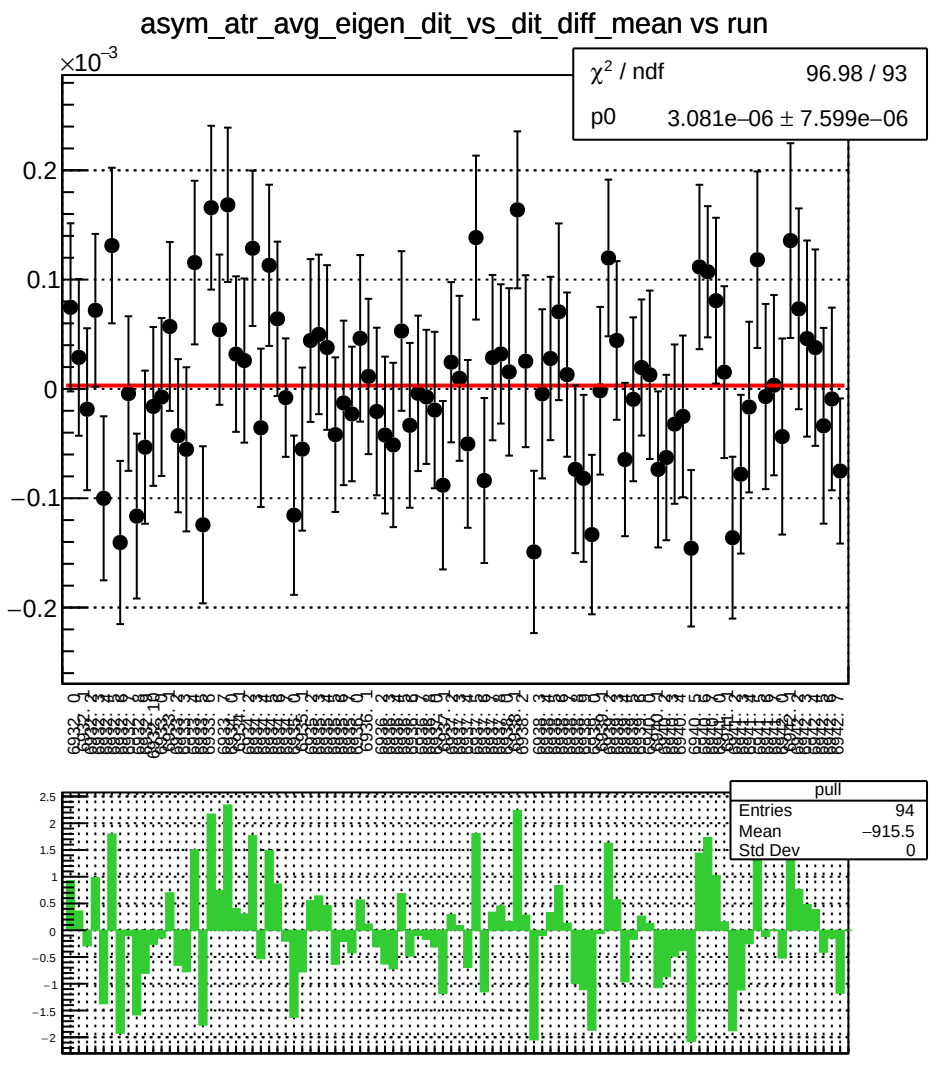

pull1D
Entries 94
Mean 0.005627
Std Dev 0.8727

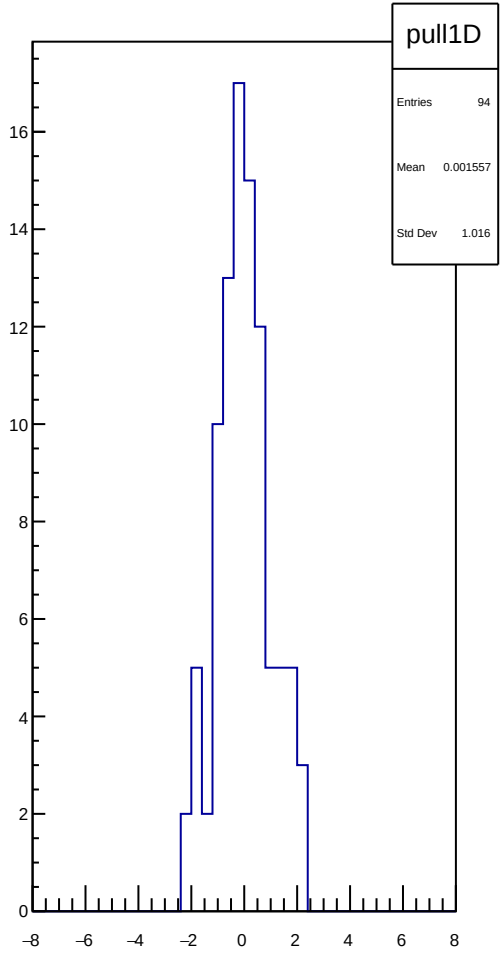

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 93
p0 291.7 ± 0.2213
450
400
350
300
250
200

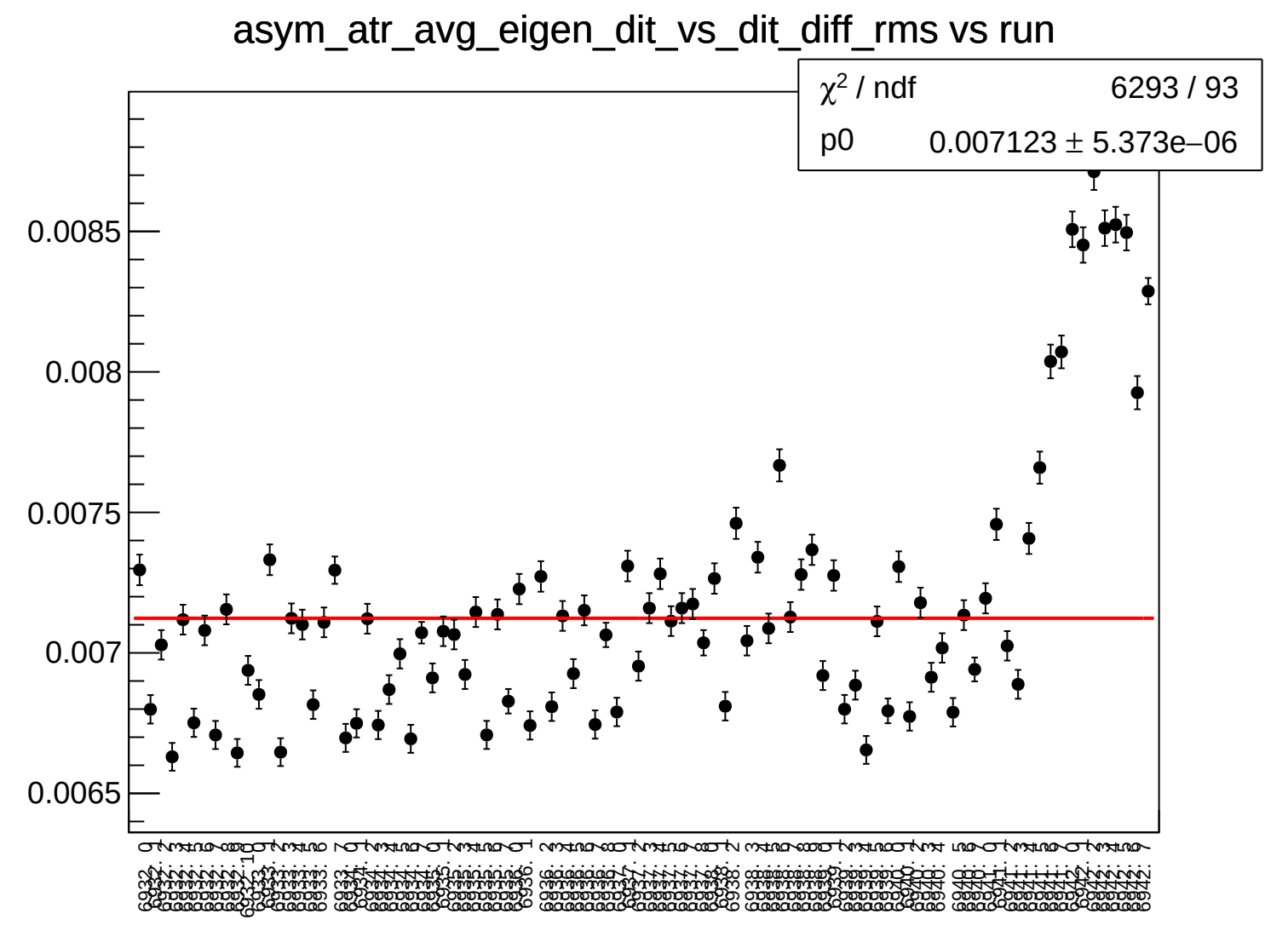

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.59 / 93
p0 0.09395 ± 0.3129
pull
Entries 94
Mean −567.8
Std Dev 0

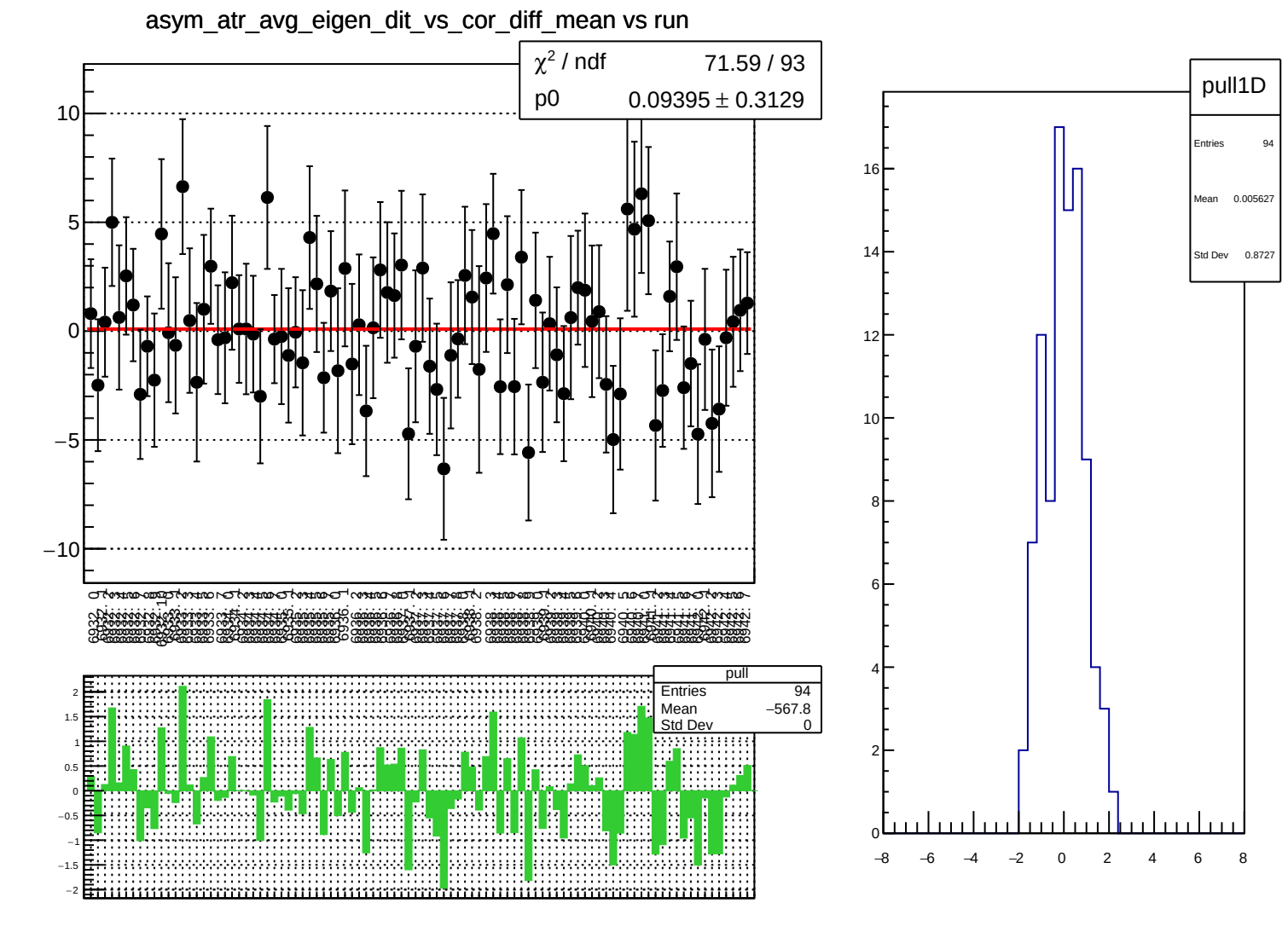

pull1D
Entries 94
Mean 0.005627
Std Dev 0.8727

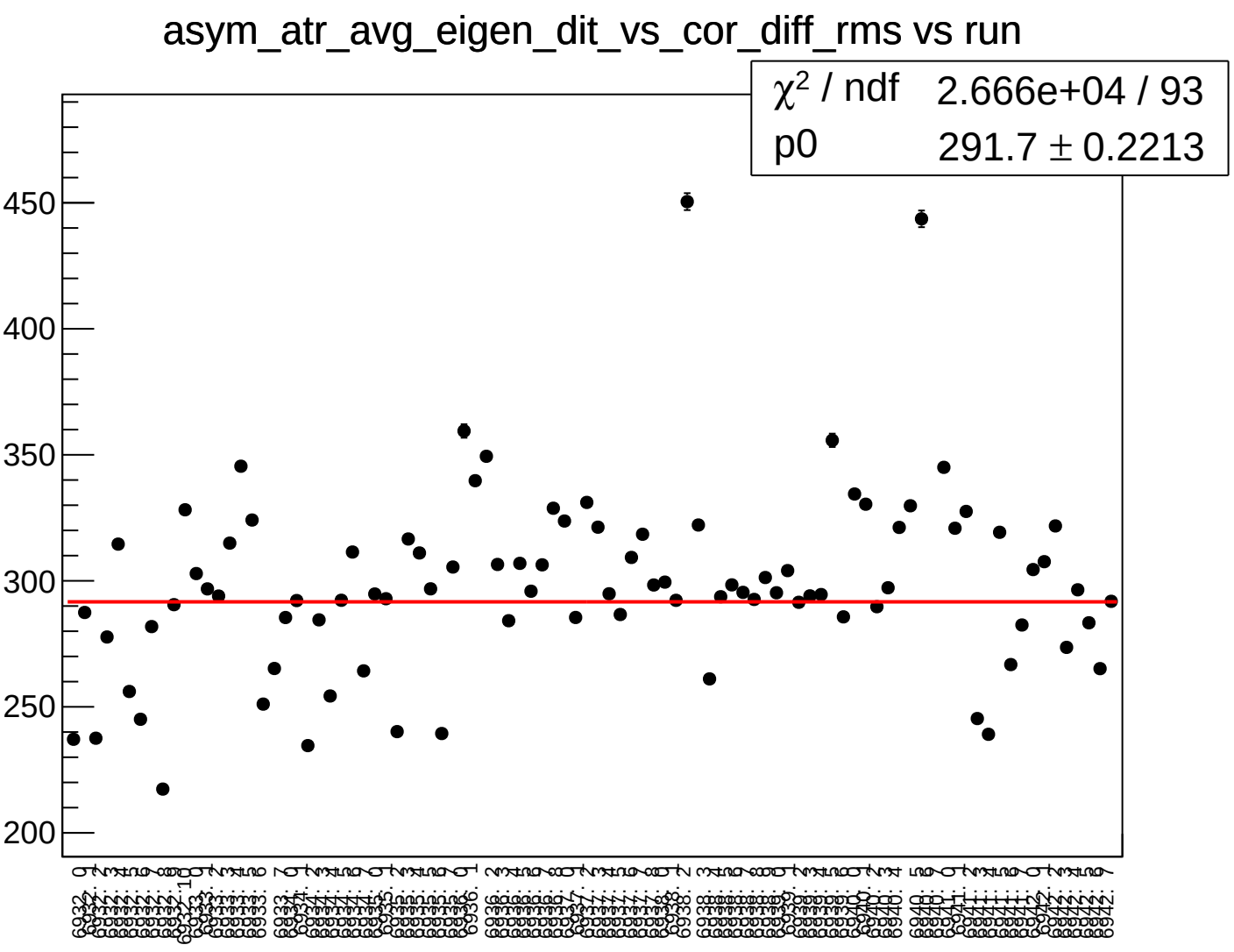

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 93
p0 291.7 ± 0.2213
450
400
350
300
250
200

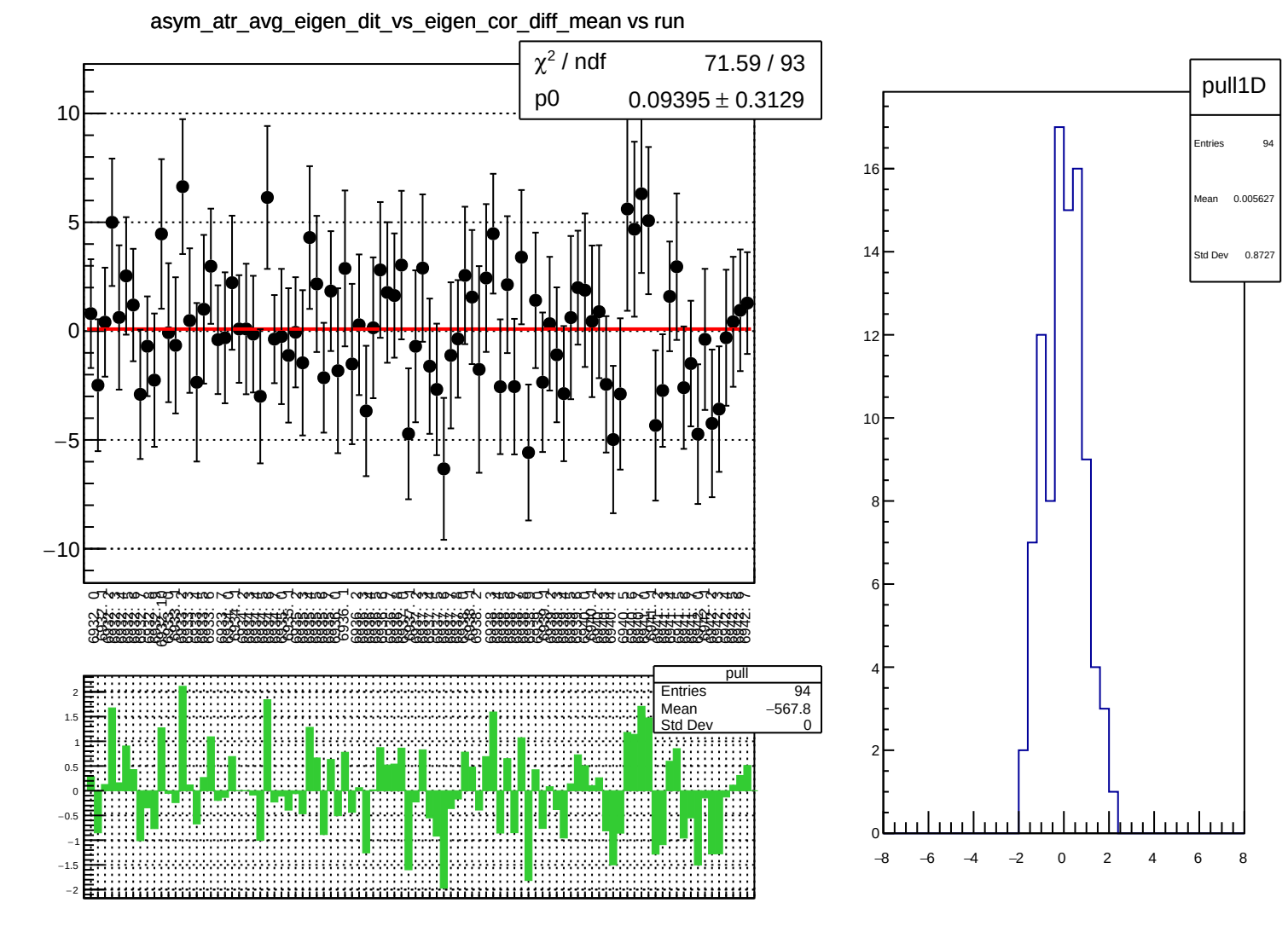

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.98 / 93
p0 3.081e−06 ± 7.599e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean −915.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

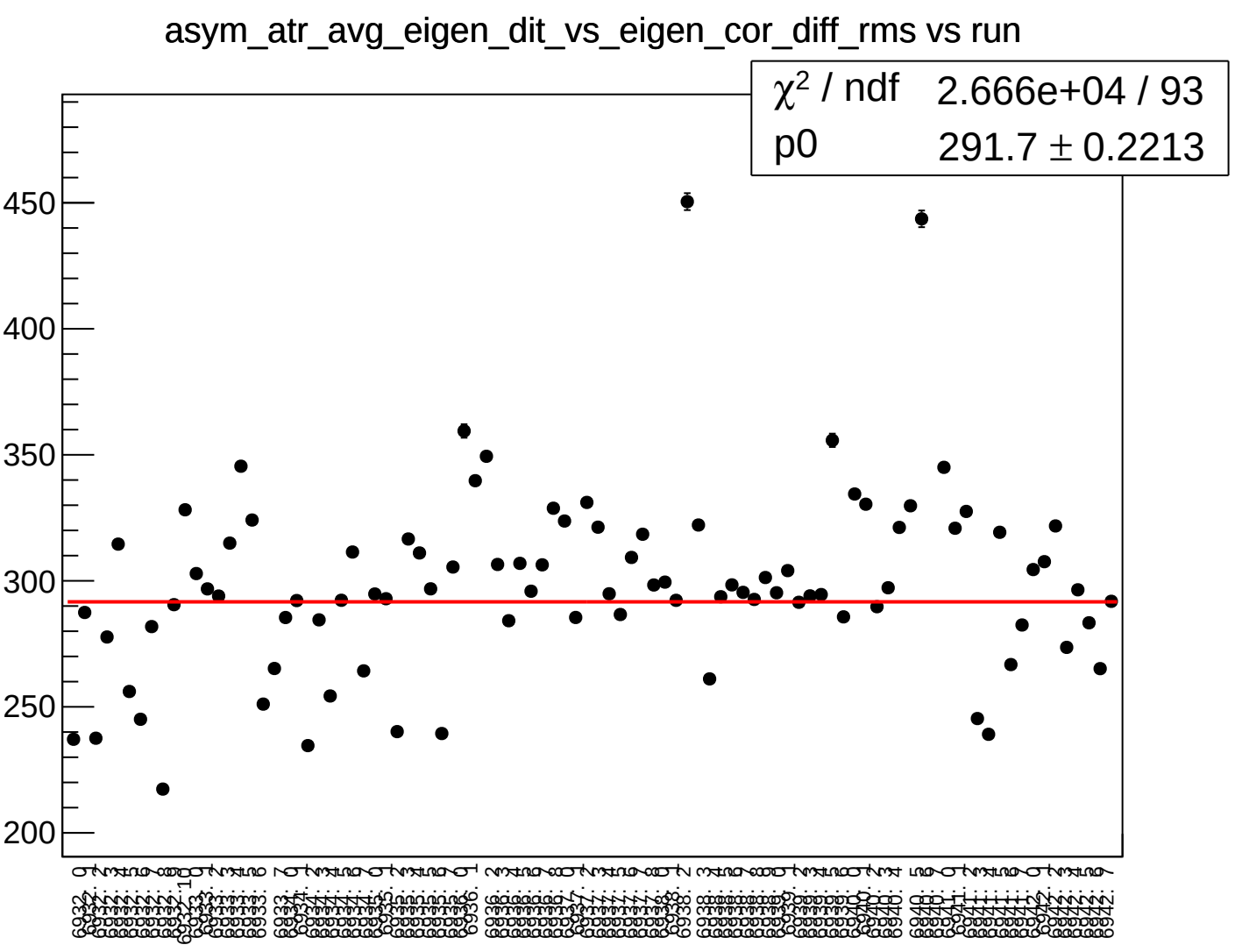

pull1D
Entries 94
Mean 0.001557
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

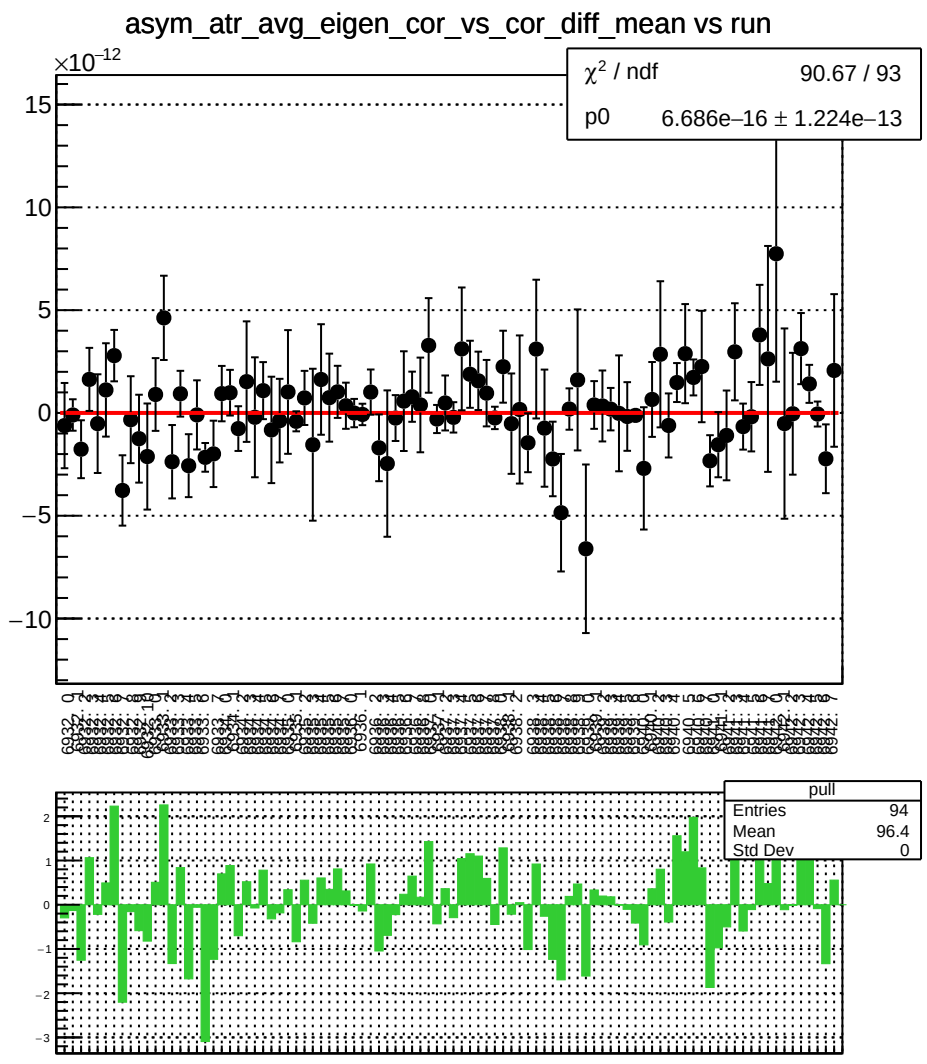

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6293 / 93
p0 0.007123 ± 5.373e−06
0.0085
0.008
0.0075
0.007
0.0065

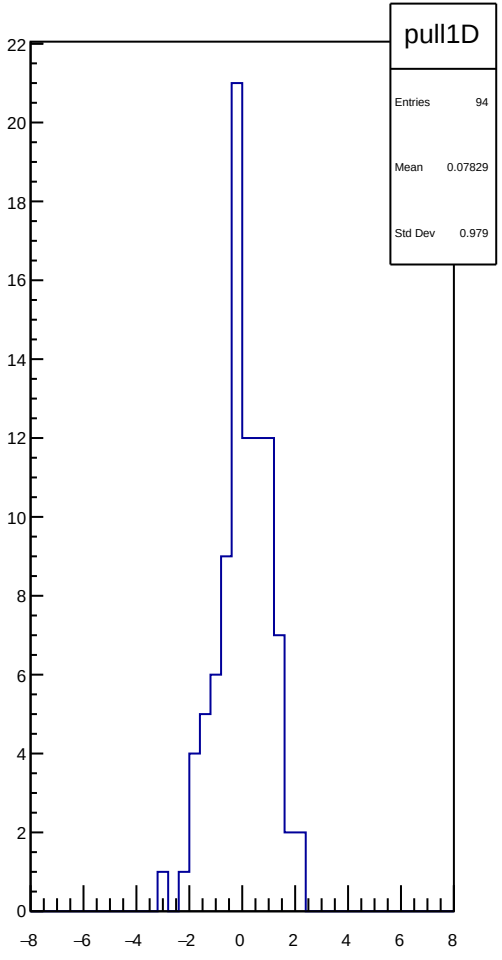

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.59 / 93
p0 0.09395 ± 0.3129
pull
Entries 94
Mean −567.8
Std Dev 0
pull1D
Entries 94
Mean 0.005627
Std Dev 0.8727

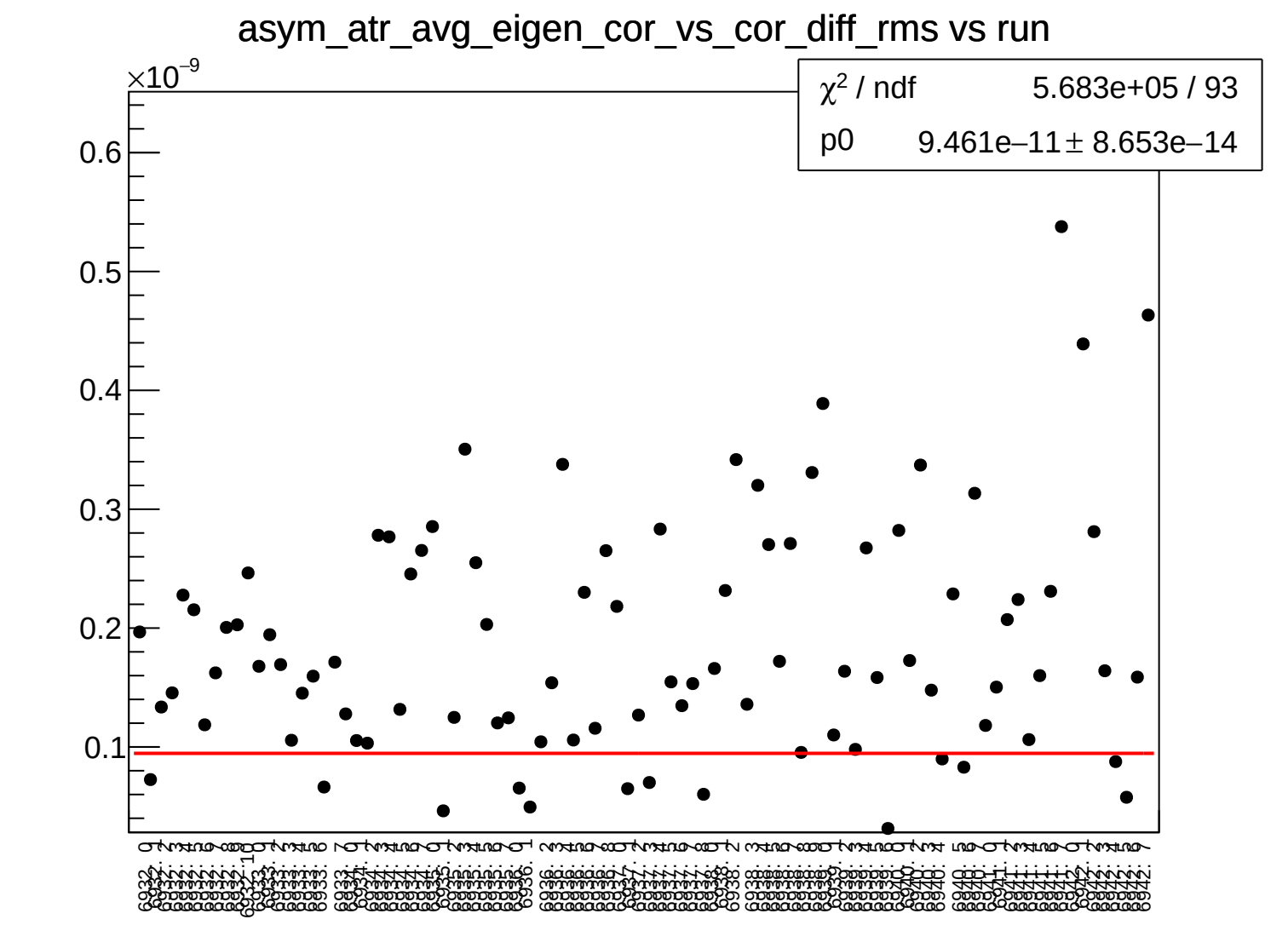

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 93
p0 291.7 ± 0.2213
450
400
350
300
250
200

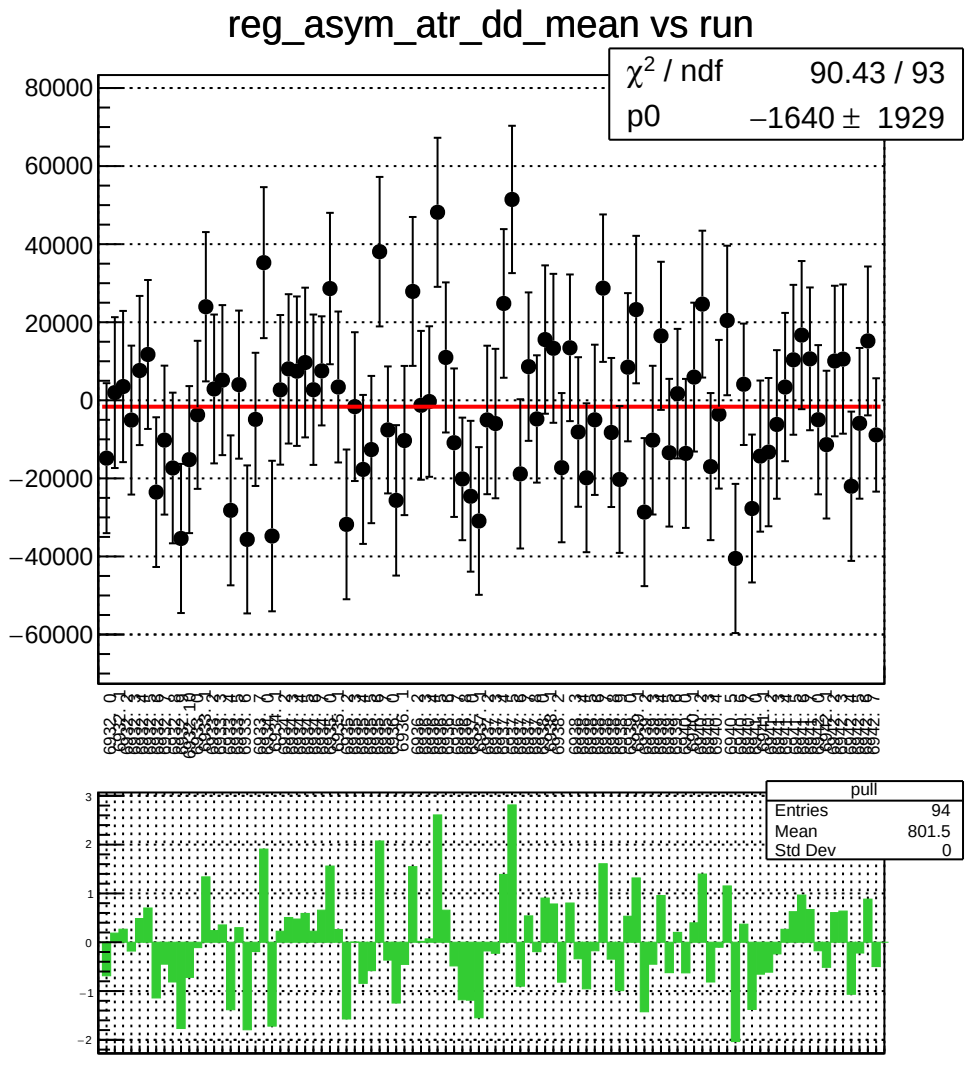

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.59 / 93
p0 0.09395 ± 0.3129
pull
Entries 94
Mean −567.8
Std Dev 0
pull1D
Entries 94
Mean 0.005627
Std Dev 0.8727

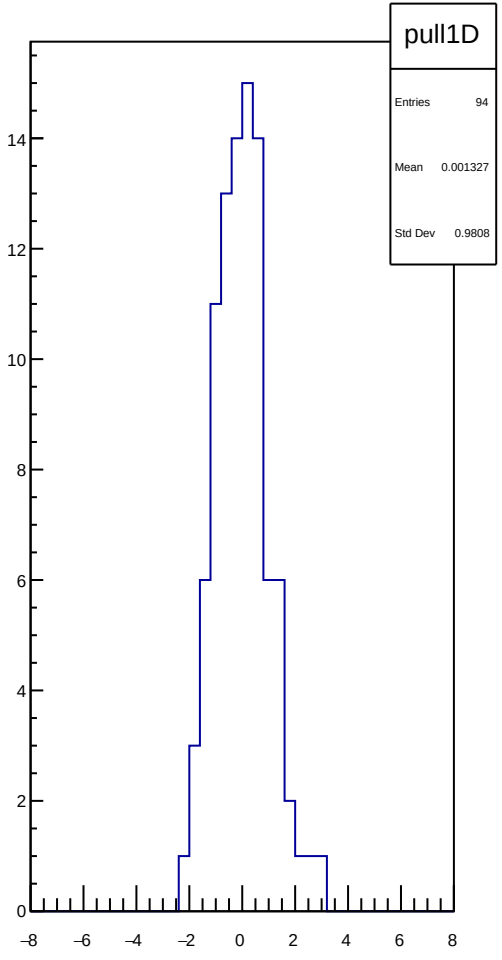

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.666e+04 / 93
p0 291.7 ± 0.2213
450
400
350
300
250
200

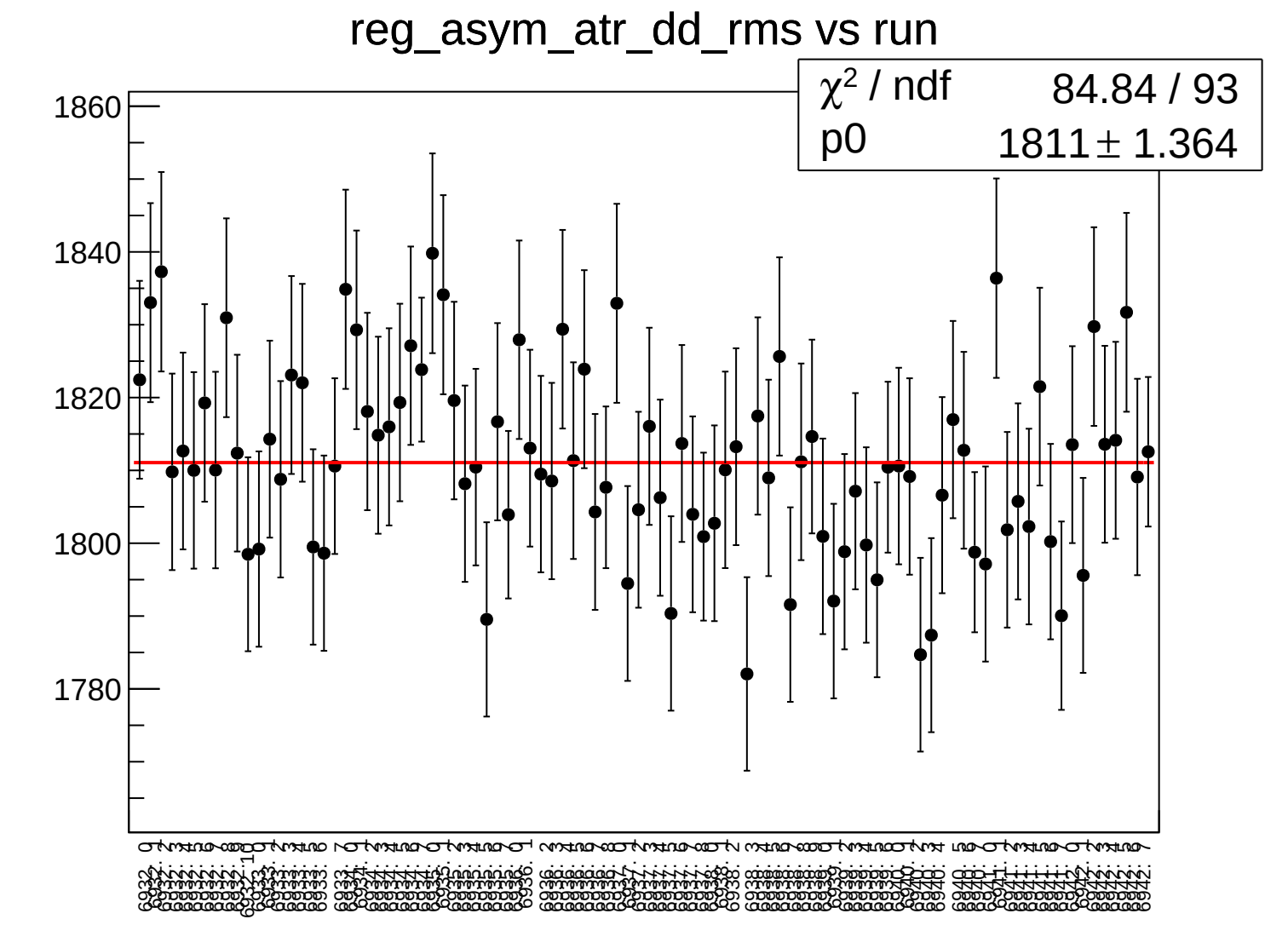

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.67 / 93
p0 6.686e−16 ± 1.224e−13
pull
Entries 94
Mean 96.4
Std Dev 0

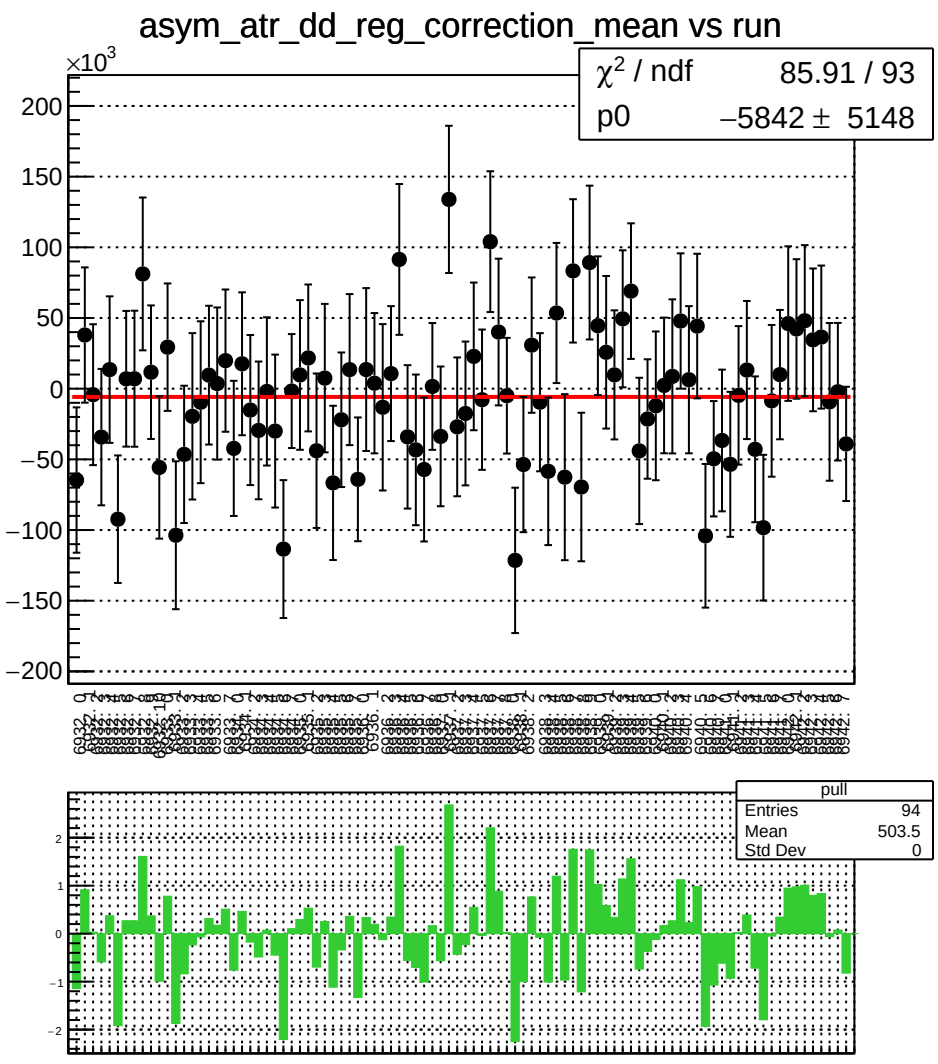

pull1D
Entries 94
Mean 0.07829
Std Dev 0.979

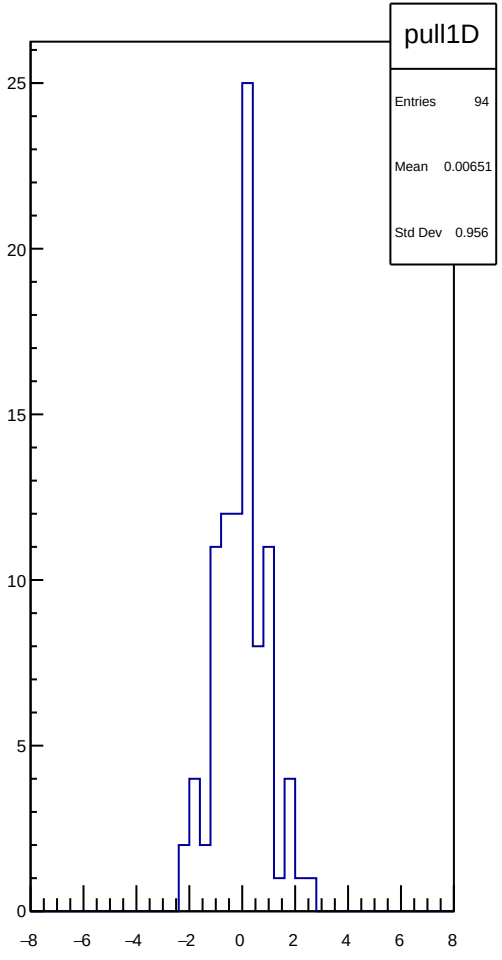

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.683e+05 / 93
p0 9.461e−11 ± 8.653e−14
0.6
0.5
0.4
0.3
0.2
0.1

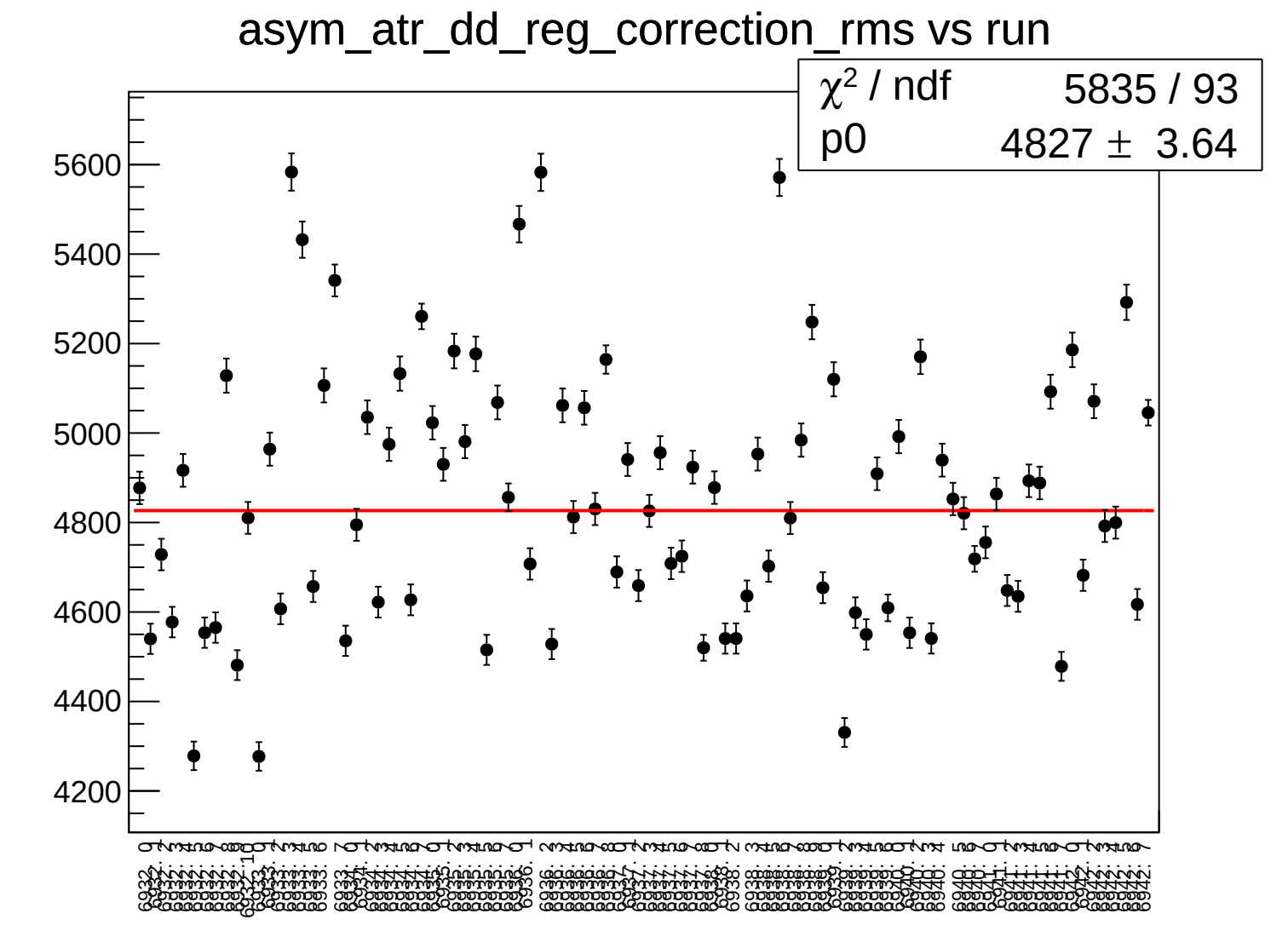

reg_asym_atr_dd_mean vs run
χ² / ndf 90.43 / 93
p0 −1640 ± 1929
pull
Entries 94
Mean 801.5
Std Dev 0

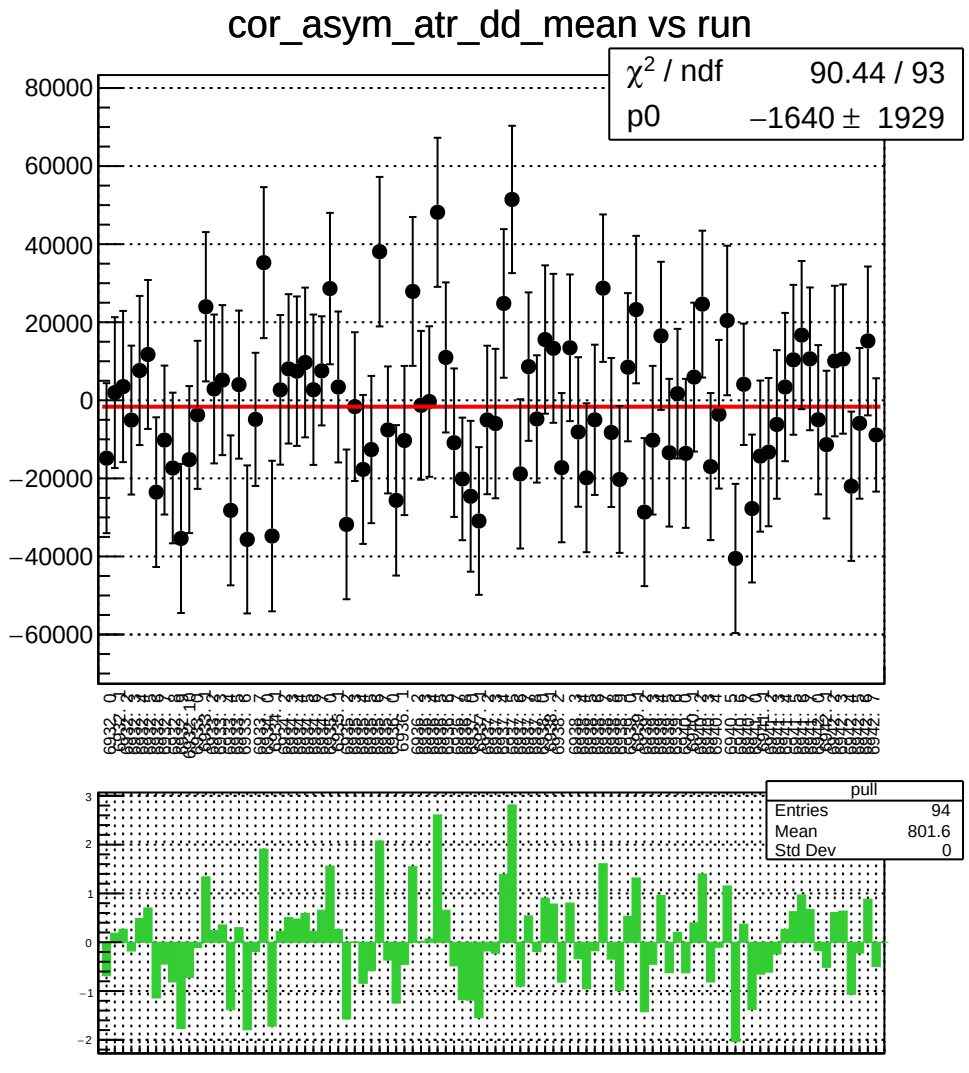

pull1D
Entries 94
Mean 0.001327
Std Dev 0.9808

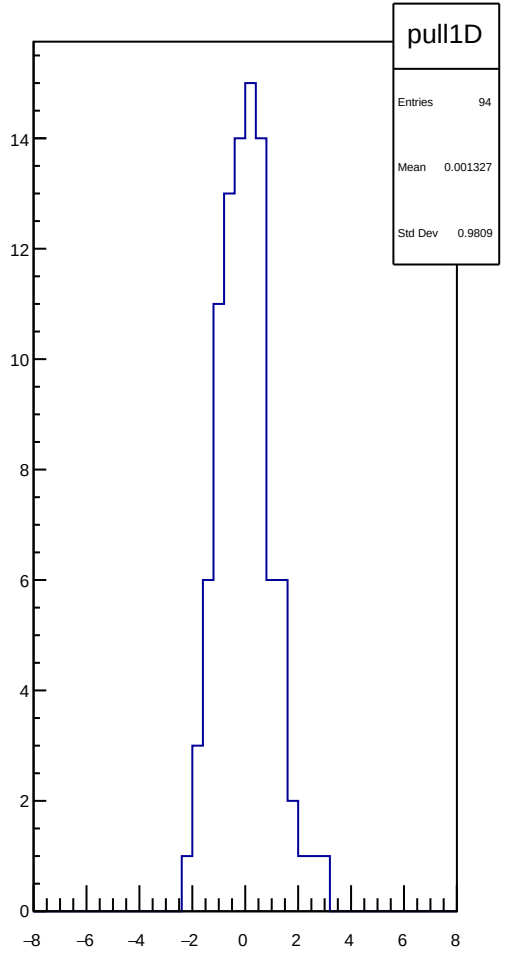

reg_asym_atr_dd_rms vs run
χ² / ndf 84.84 / 93
p0 1811 ± 1.364
1860
1840
1820
1800
1780

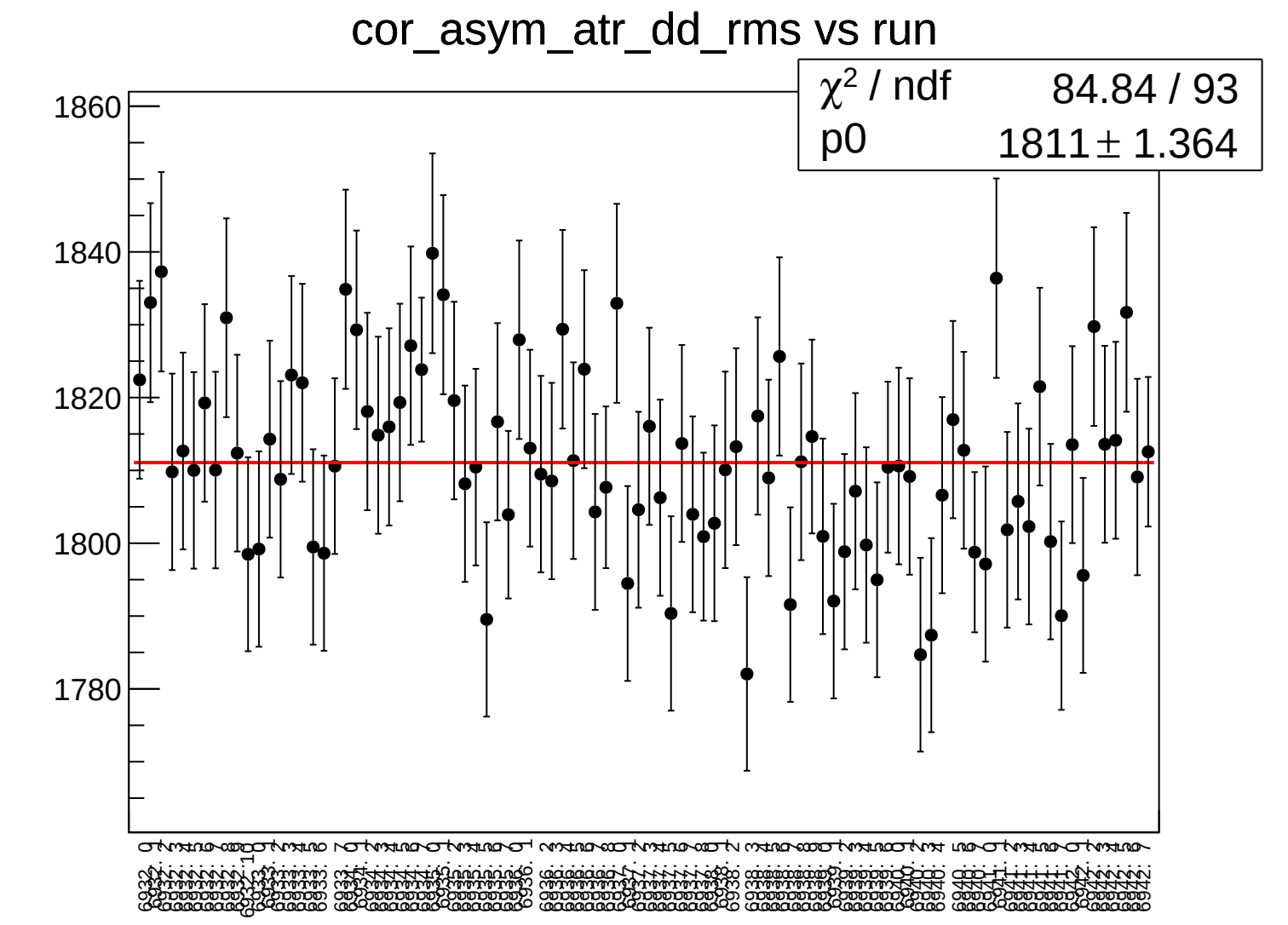

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 85.91 / 93
p0 −5842 ± 5148
pull
Entries 94
Mean 503.5
Std Dev 0

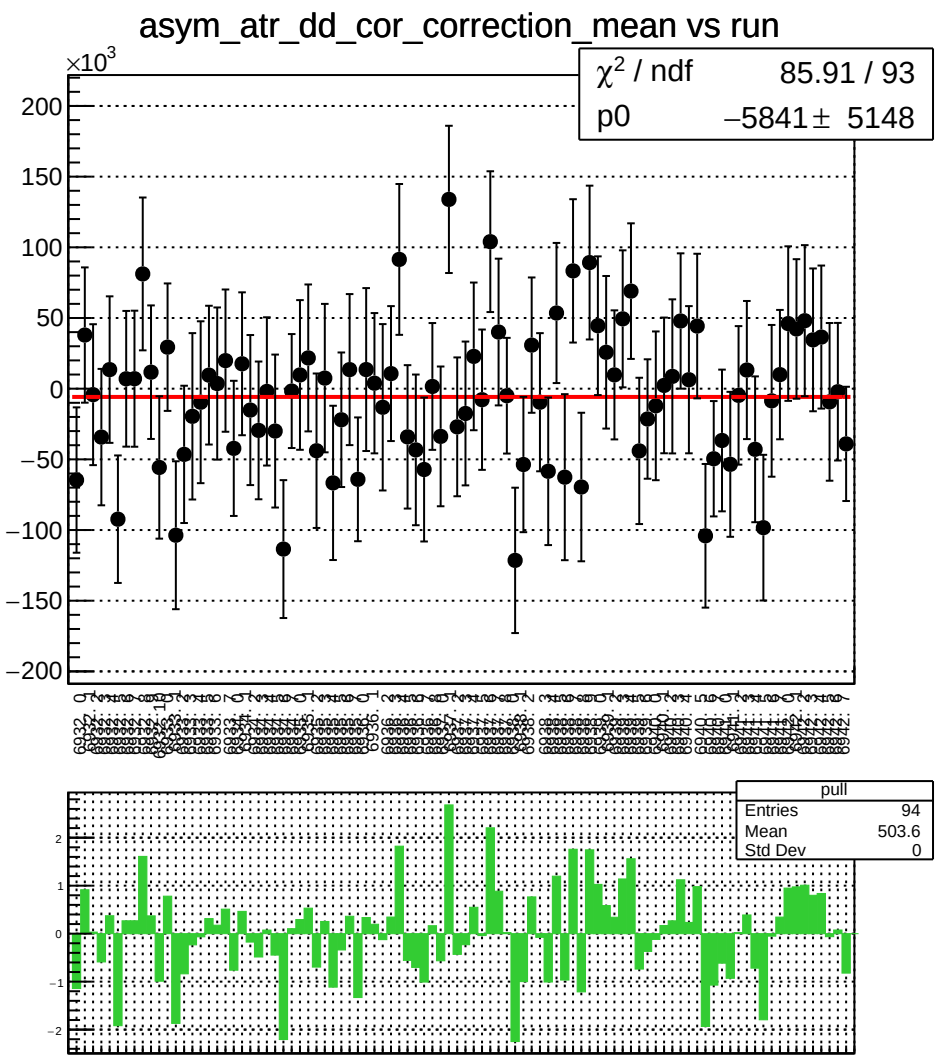

pull1D
Entries 94
Mean 0.00651
Std Dev 0.956

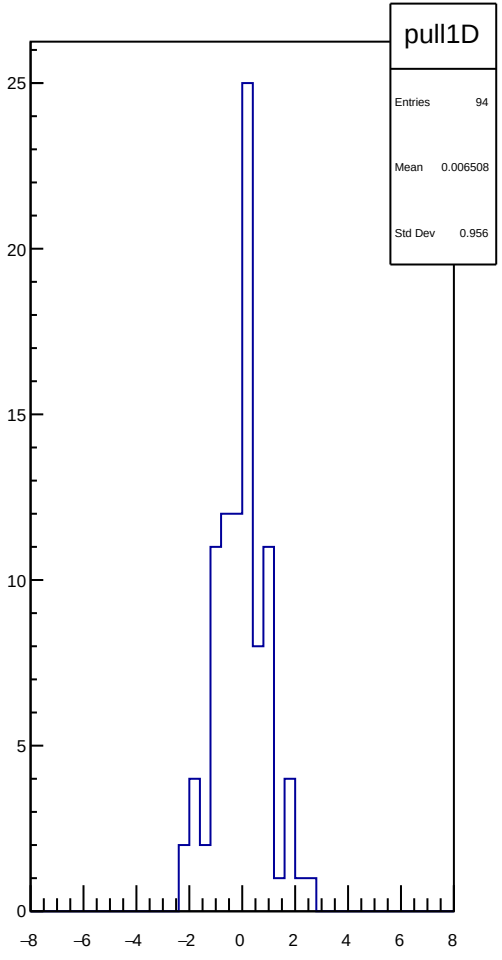

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 5835 / 93
p0 4827 ± 3.64
5600
5400
5200
5000
4800
4600
4400
4200

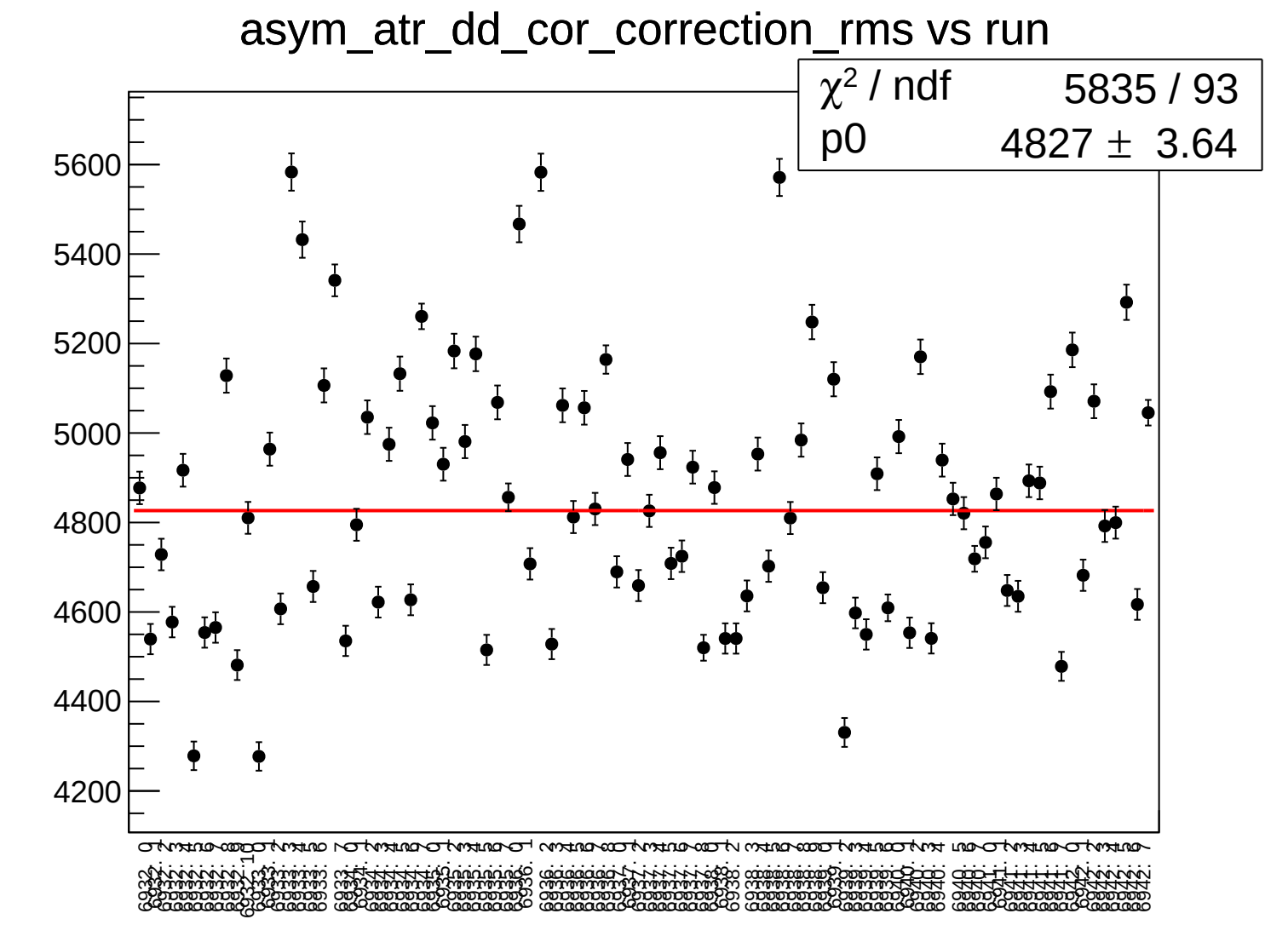

cor_asym_atr_dd_mean vs run
χ² / ndf 90.44 / 93
p0 −1640 ± 1929
pull
Entries 94
Mean 801.6
Std Dev 0

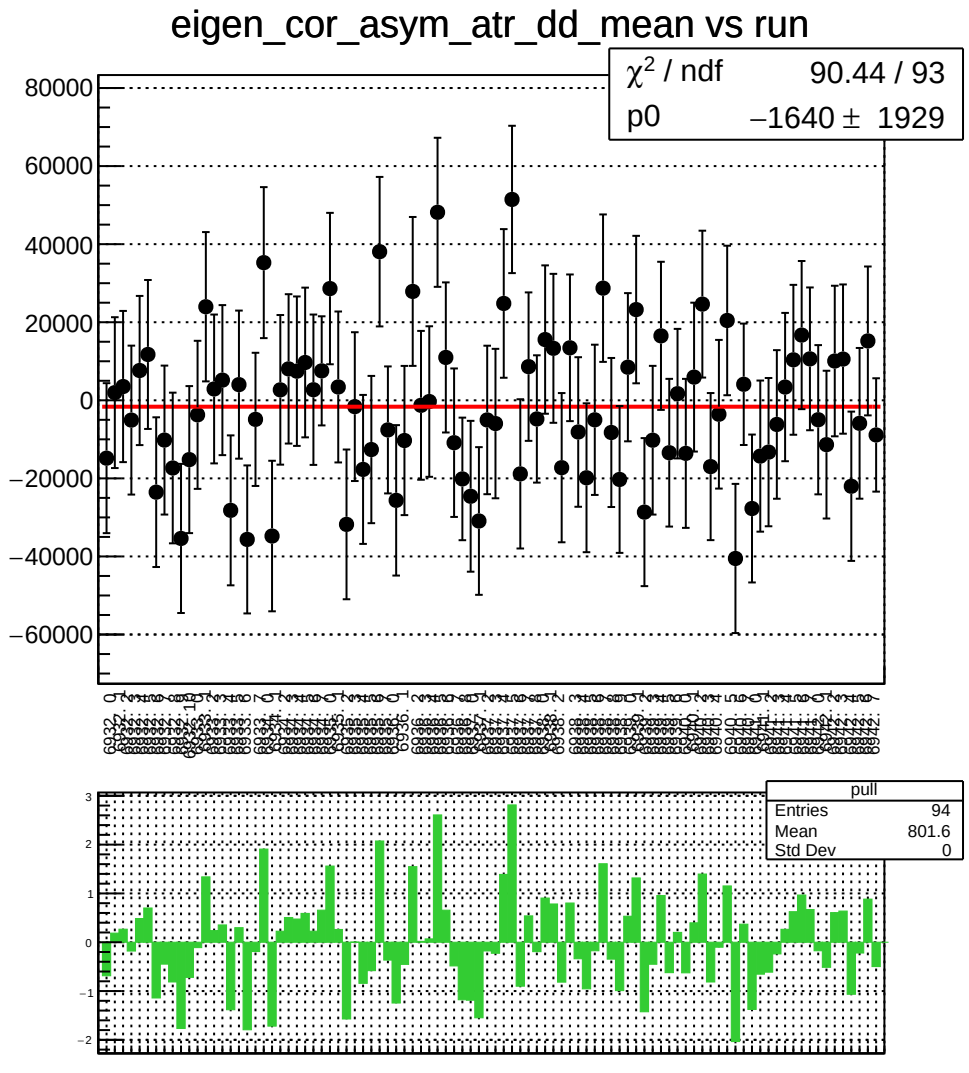

pull1D
Entries 94
Mean 0.001327
Std Dev 0.9809

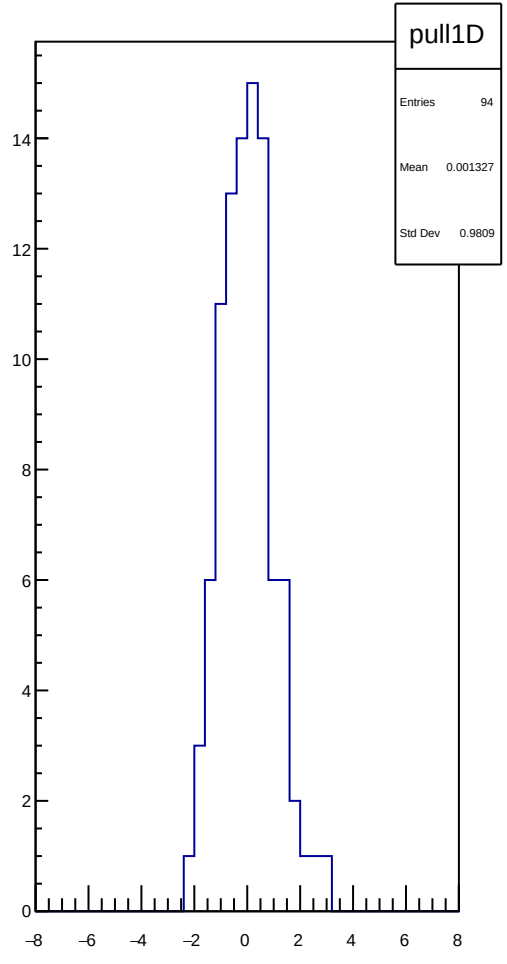

cor_asym_atr_dd_rms vs run
χ^2 / ndf 84.84 / 93
p0 1811 ± 1.364
1860
1840
1820
1800
1780

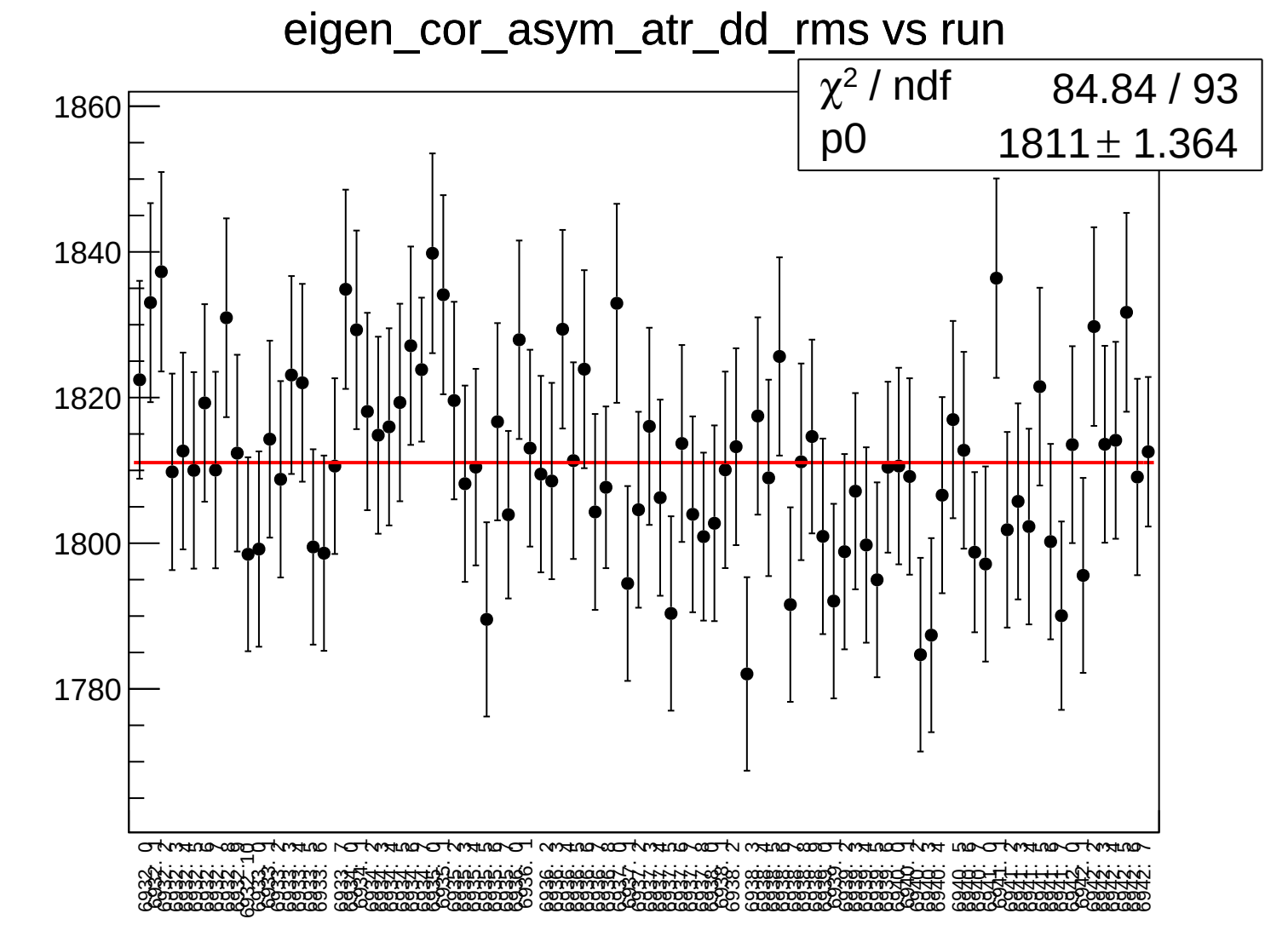

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.91 / 93
p0 −5841 ± 5148
pull
Entries 94
Mean 503.6
Std Dev 0

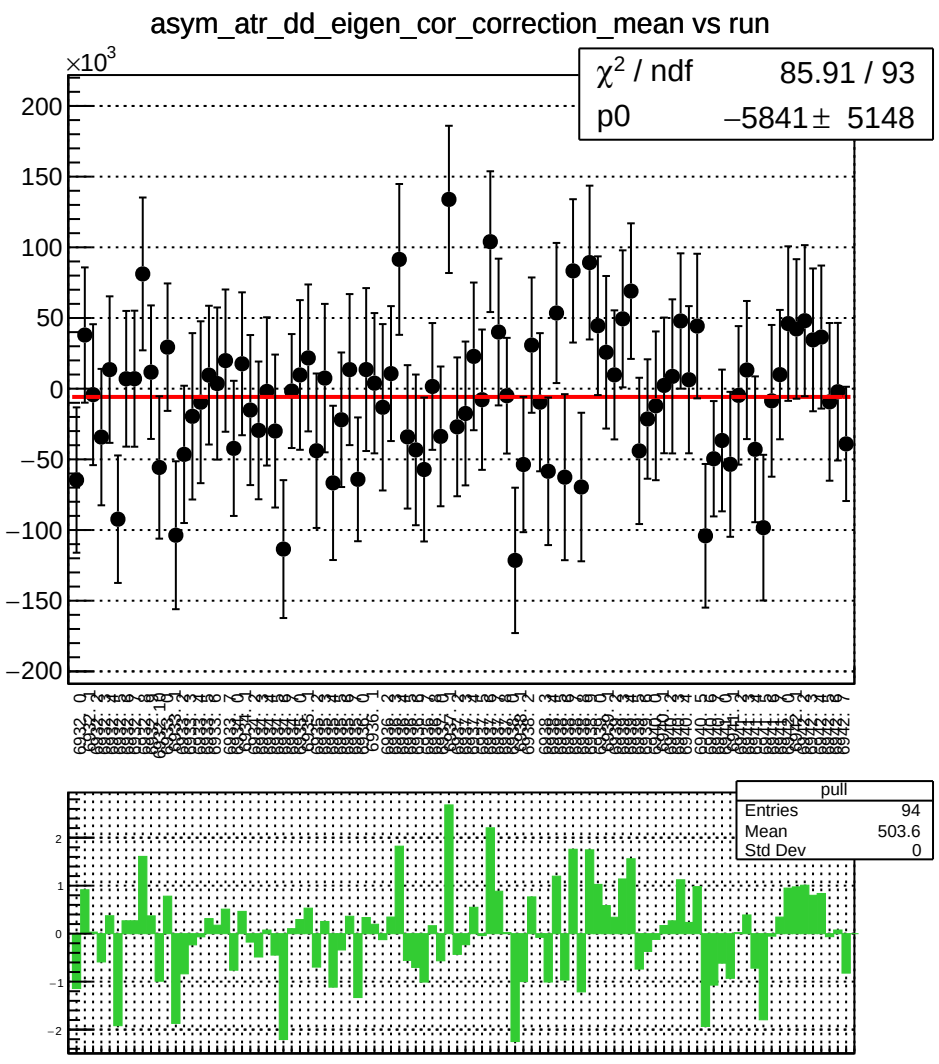

pull1D
Entries 94
Mean 0.006508
Std Dev 0.956

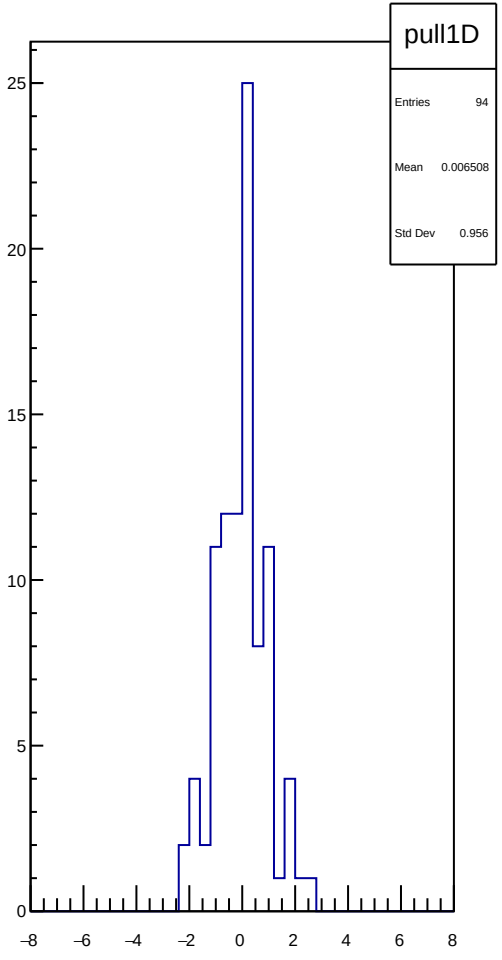

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 5835 / 93
p0 4827 ± 3.64
5600
5400
5200
5000
4800
4600
4400
4200

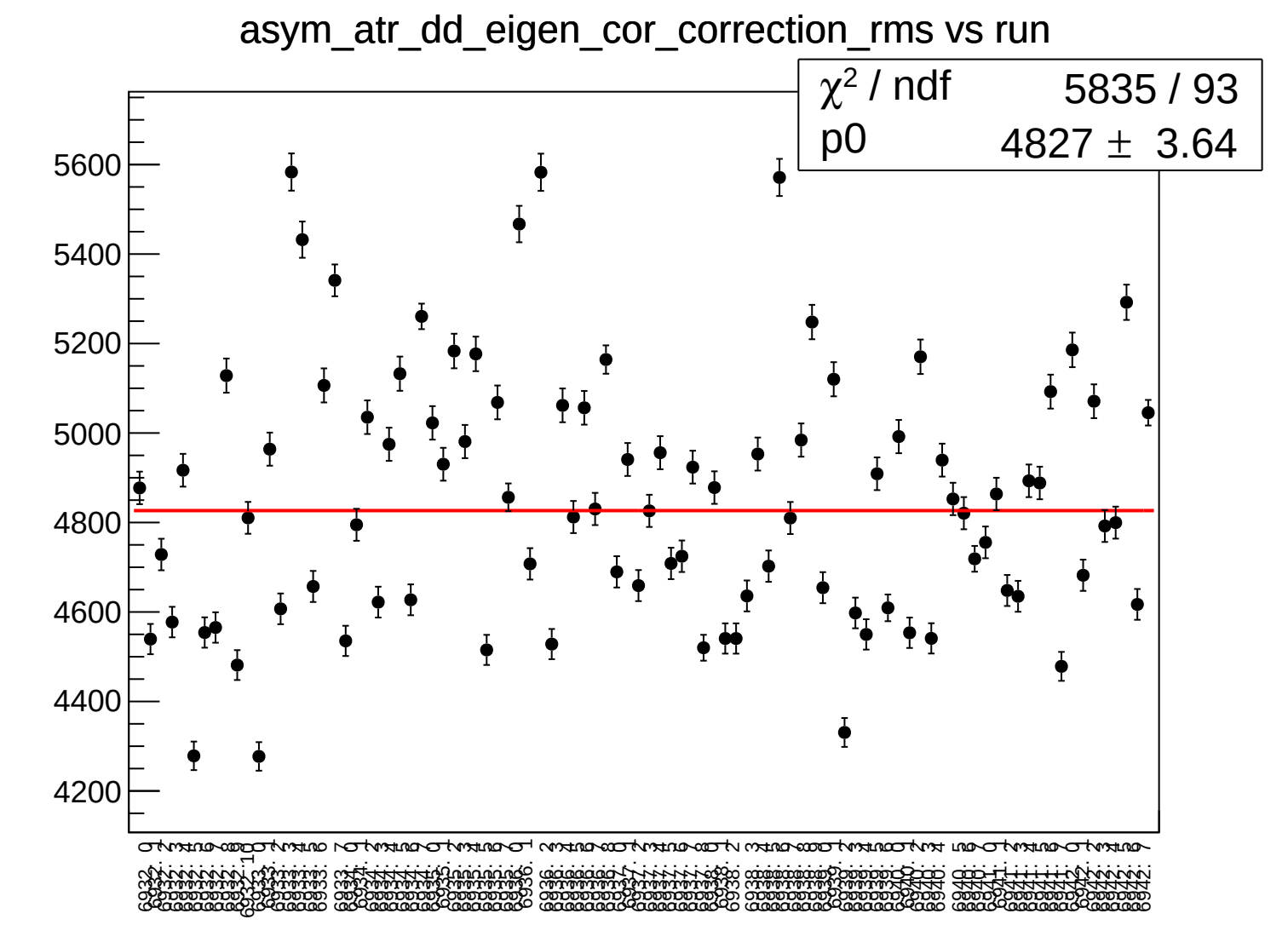

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 90.44 / 93
p0 −1640 ± 1929
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 801.6
Std Dev 0
3
2
1
0
−1
−2

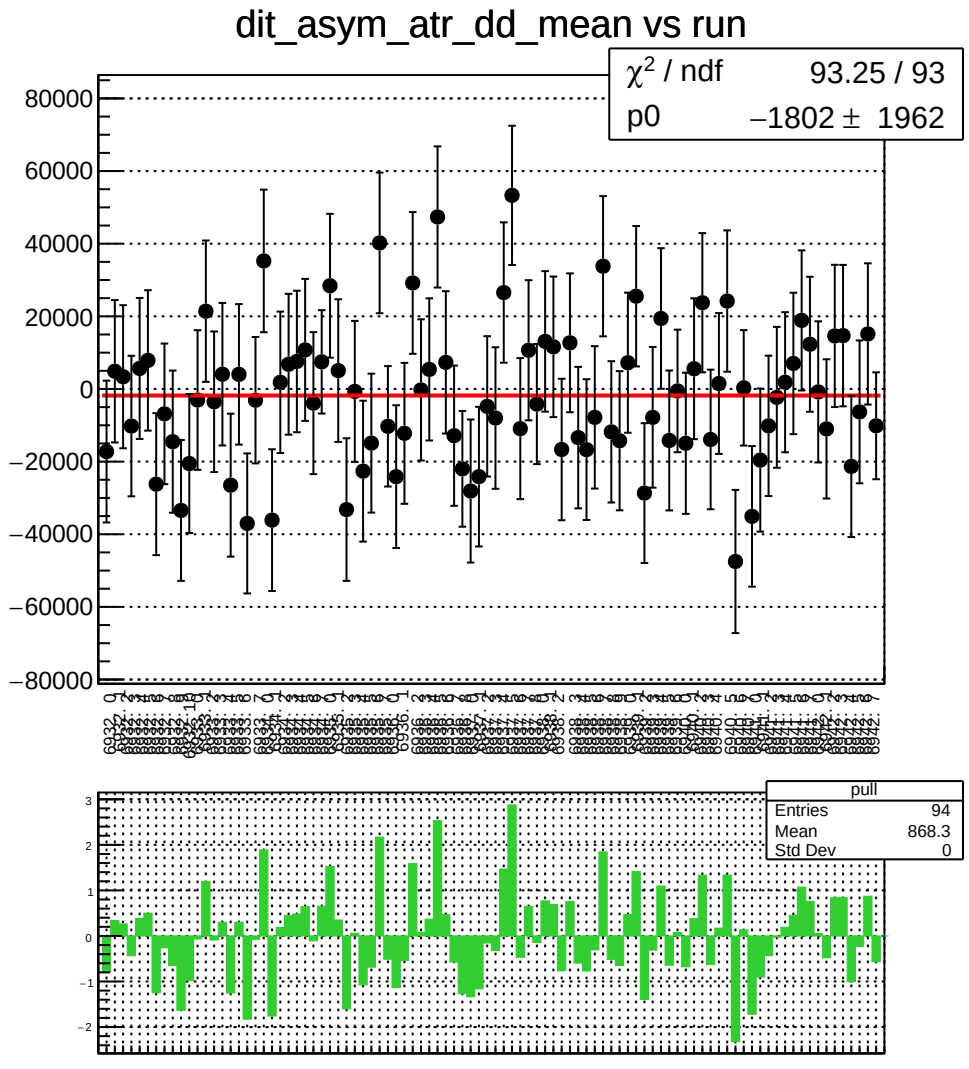

pull1D
Entries 94
Mean 0.001327
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

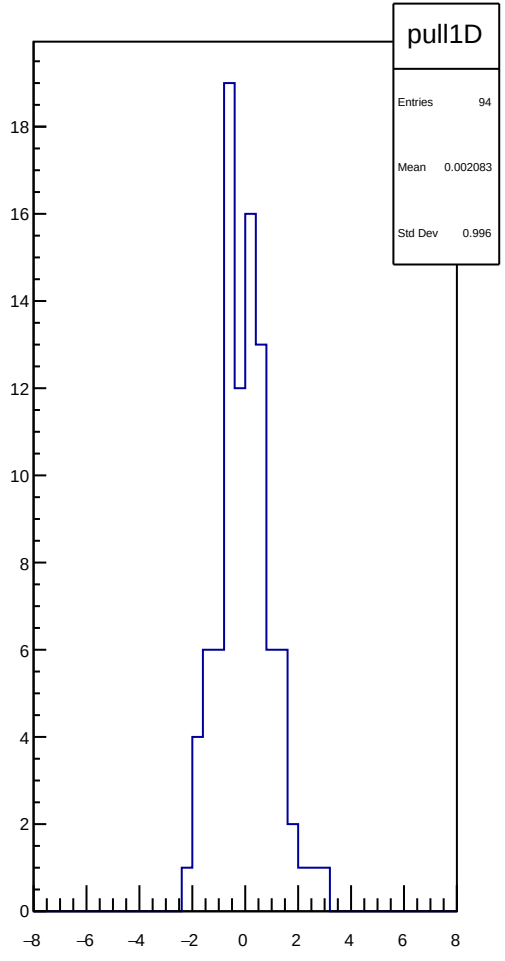

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 84.84 / 93
p0 1811 ± 1.364
1860
1840
1820
1800
1780

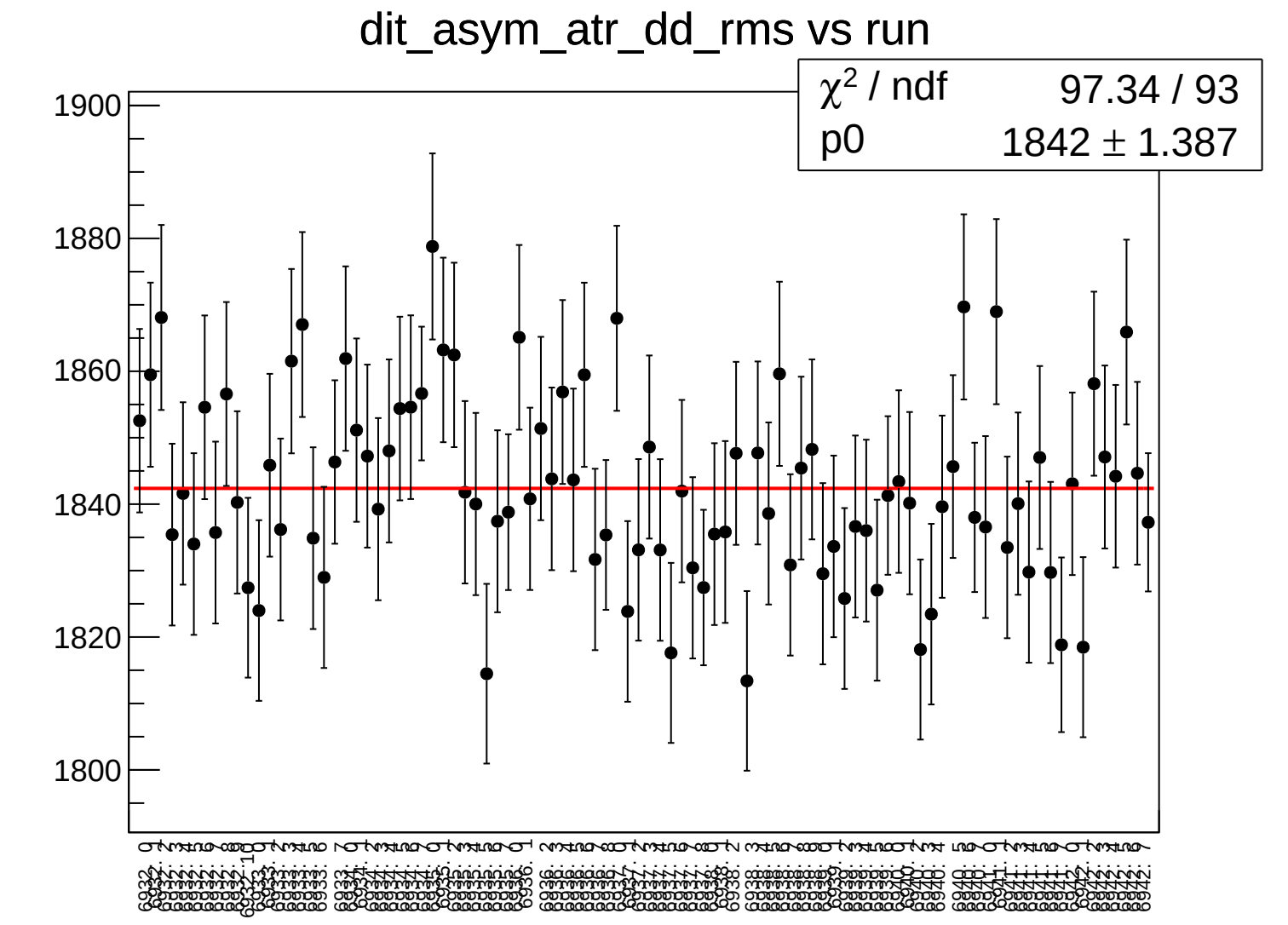

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.91 / 93
p0 −5841 ± 5148
pull
Entries 94
Mean 503.6
Std Dev 0

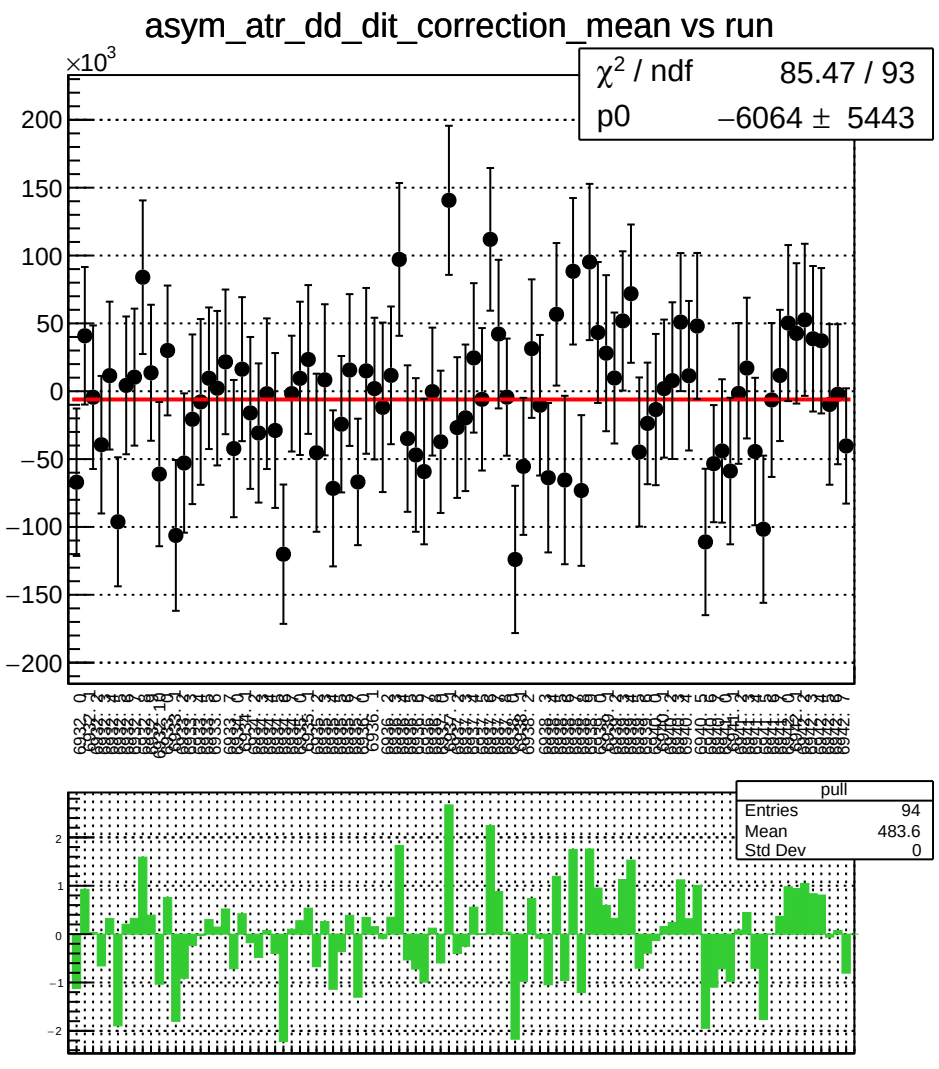

pull1D
Entries 94
Mean 0.006508
Std Dev 0.956

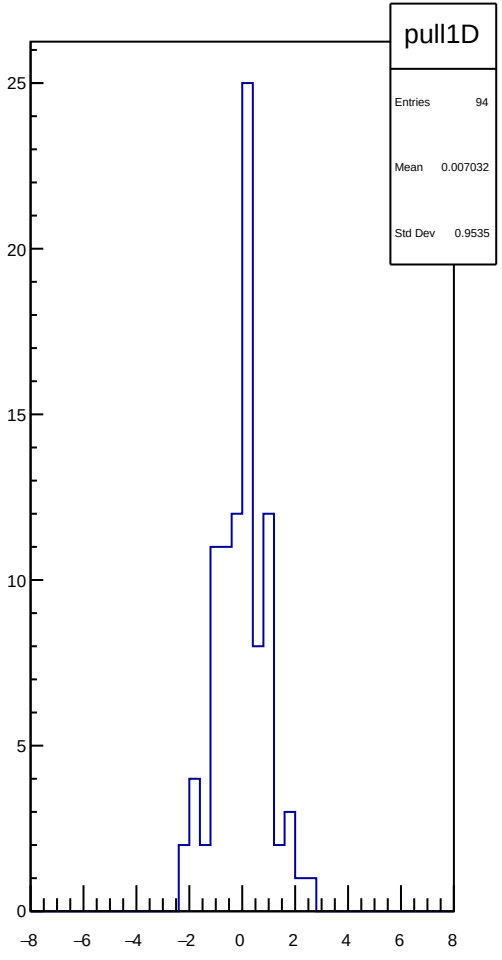

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 5835 / 93
p0 4827 ± 3.64
5600
5400
5200
5000
4800
4600
4400
4200

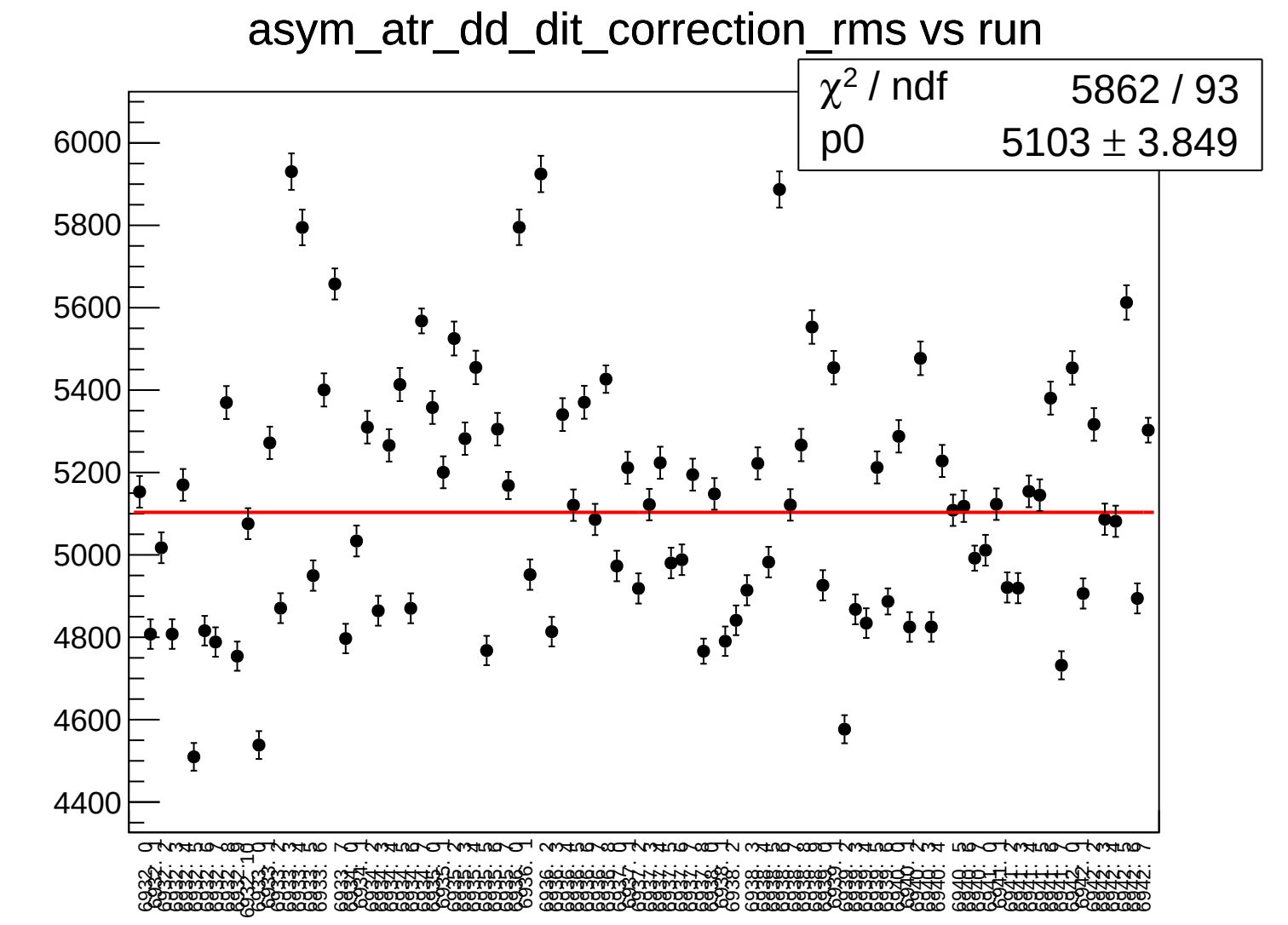

dit_asym_atr_dd_mean vs run
χ² / ndf 93.25 / 93
p0 −1802 ± 1962
pull
Entries 94
Mean 868.3
Std Dev 0

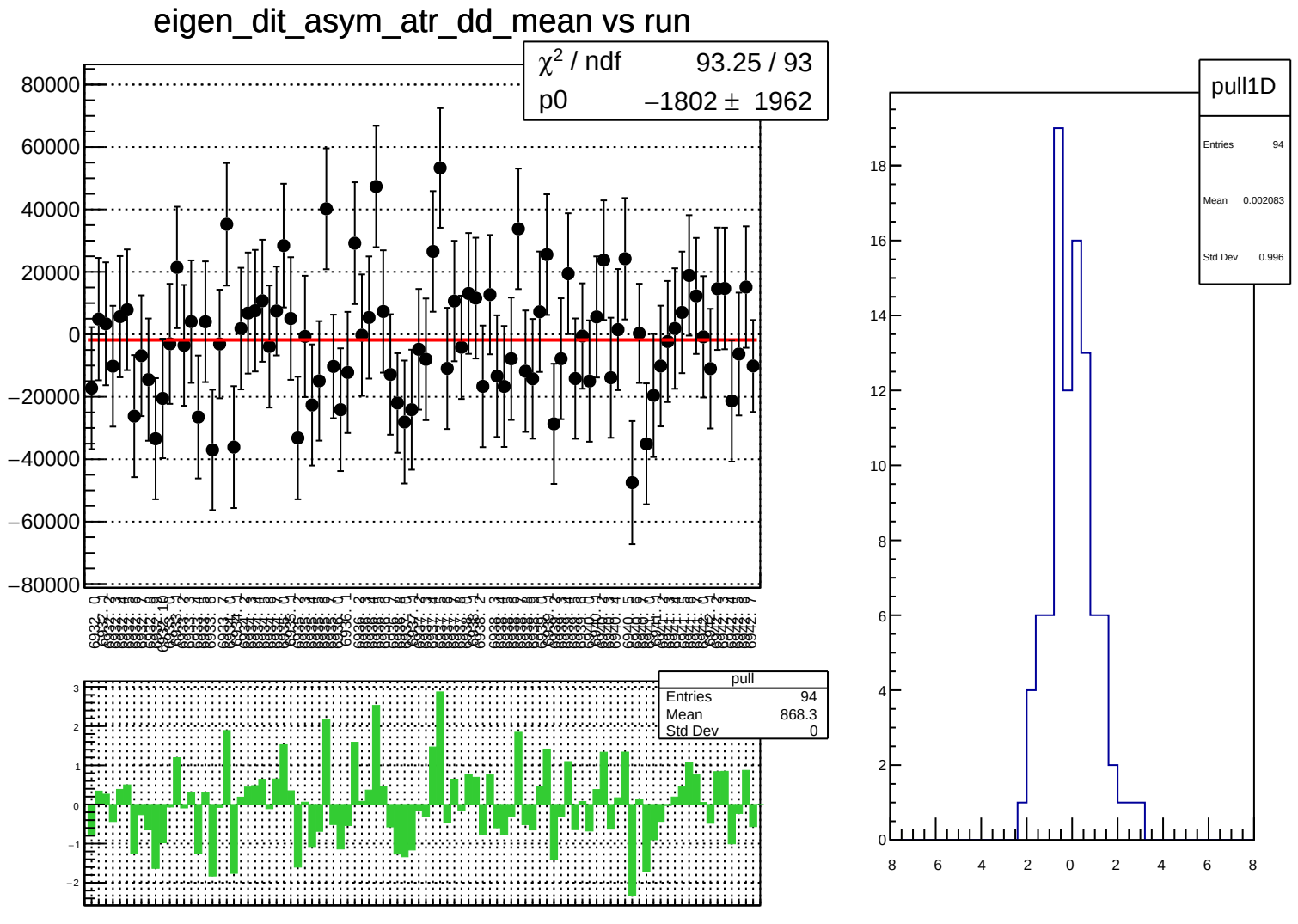

pull1D
Entries 94
Mean 0.002083
Std Dev 0.996

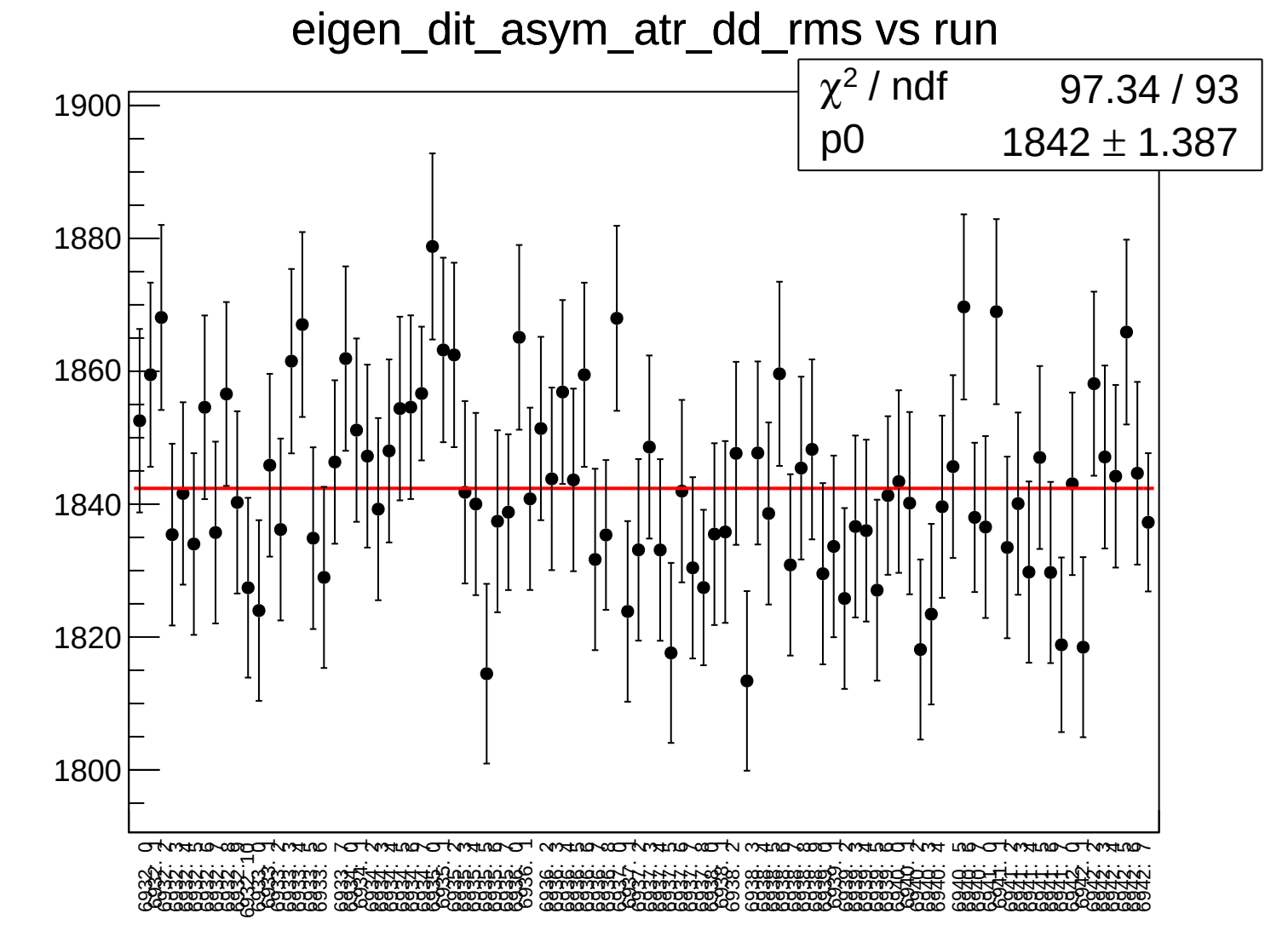

dit_asym_atr_dd_rms vs run
χ² / ndf 97.34 / 93
p0 1842 ± 1.387
1900
1880
1860
1840
1820
1800

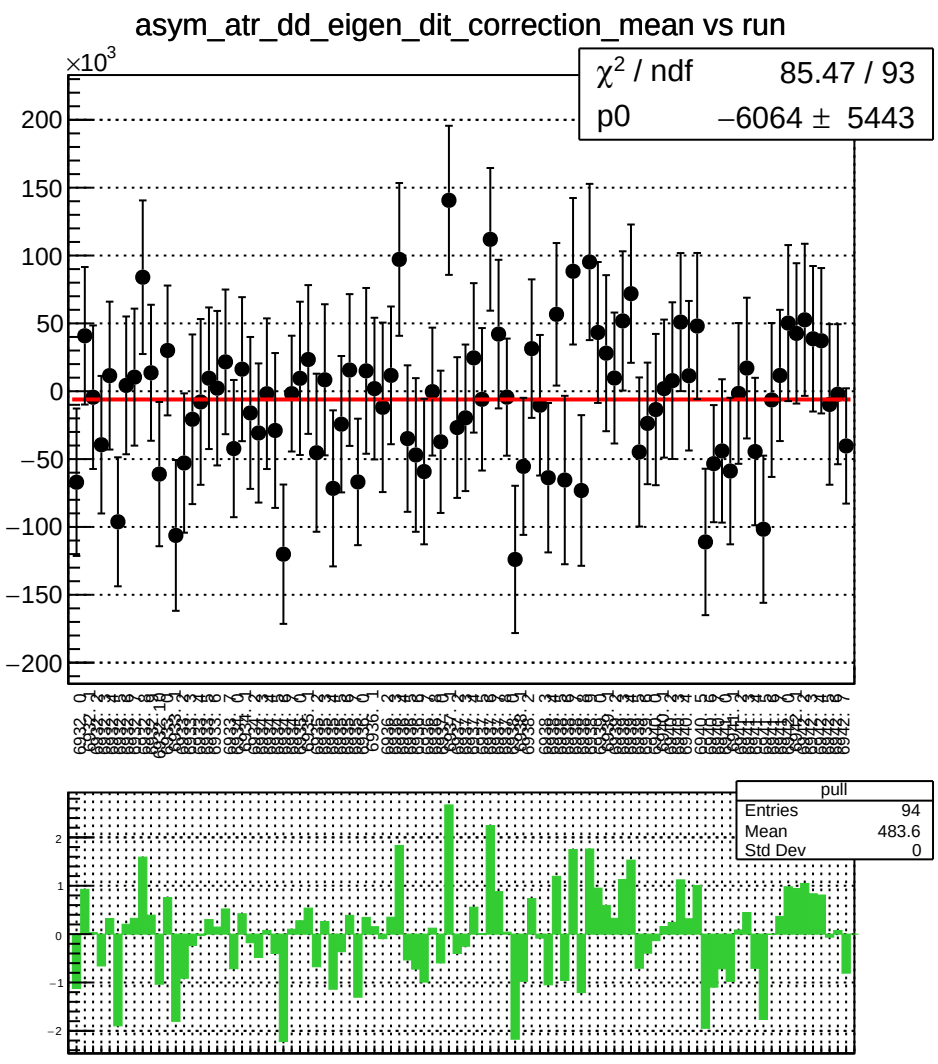

asym_atr_dd_dit_correction_mean vs run
χ² / ndf 85.47 / 93
p0 −6064 ± 5443
×10³
pull
Entries 94
Mean 483.6
Std Dev 0

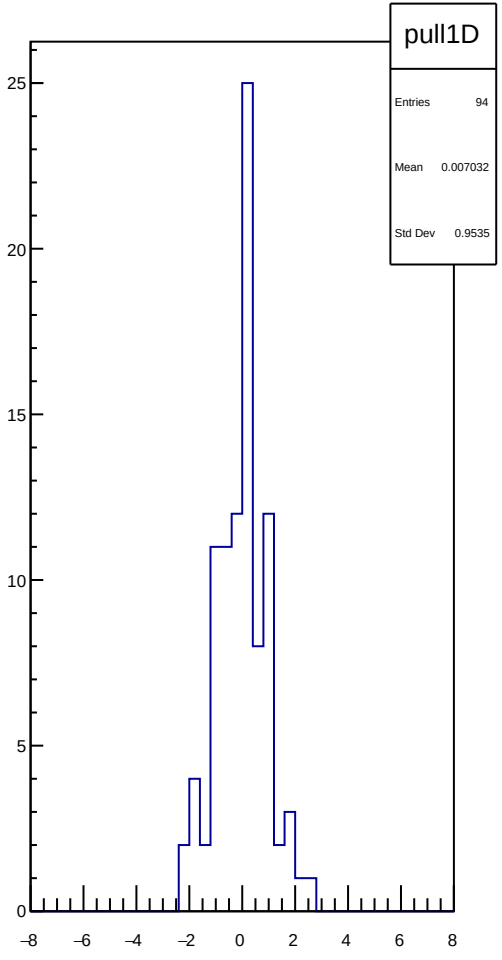

pull1D
Entries 94
Mean 0.007032
Std Dev 0.9535

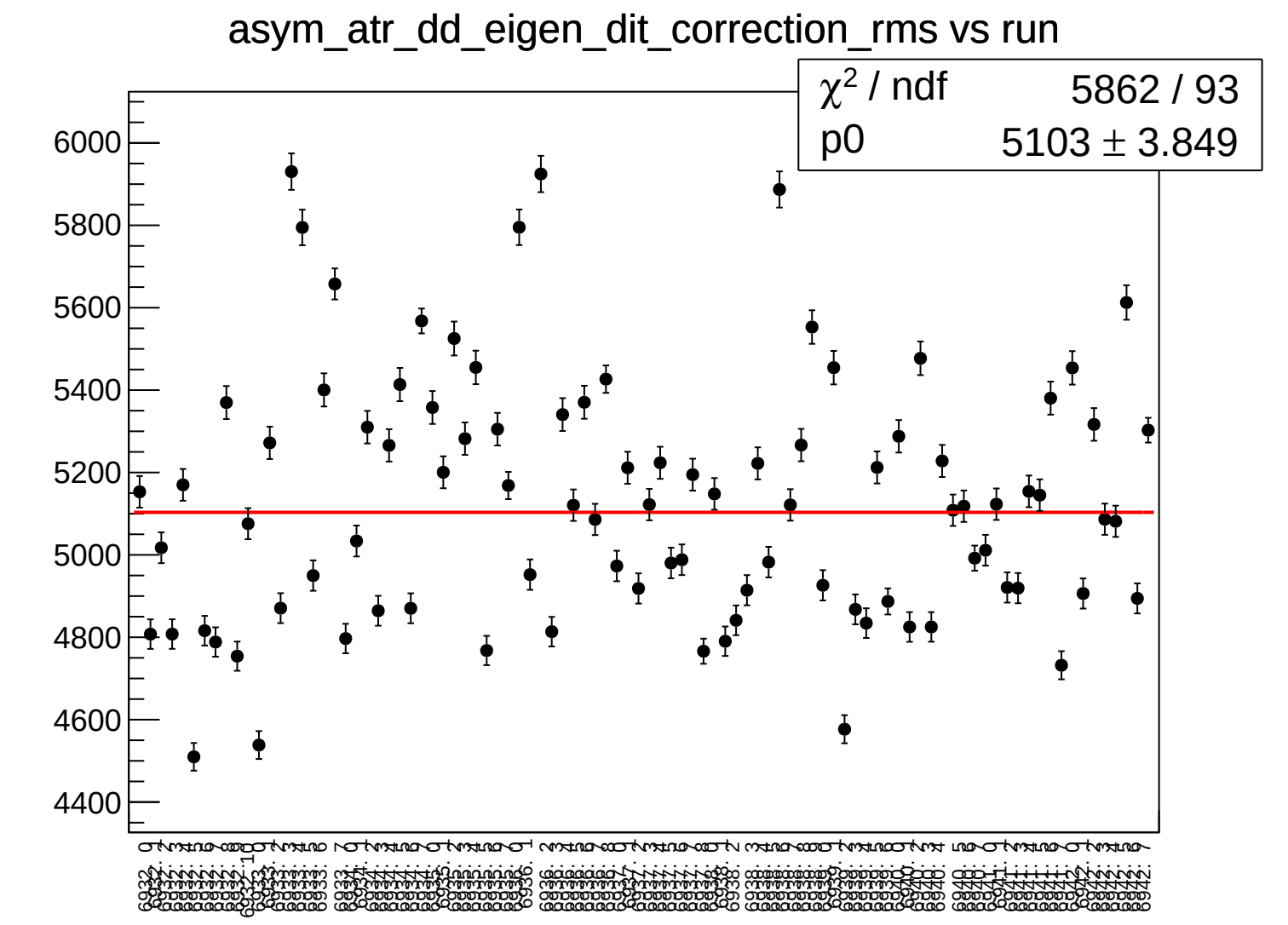

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 5862 / 93
p0 5103 ± 3.849
6000
5800
5600
5400
5200
5000
4800
4600
4400

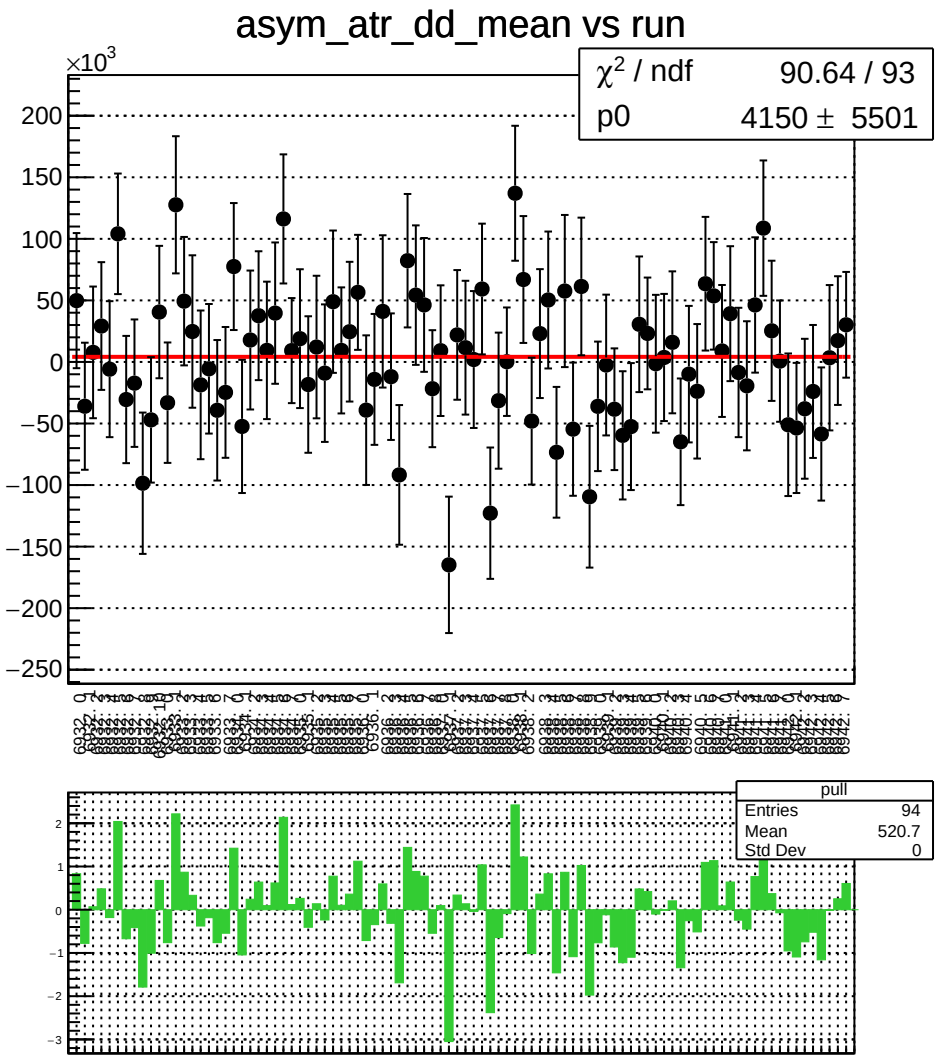

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 93.25 / 93
p0 −1802 ± 1962
pull
Entries 94
Mean 868.3
Std Dev 0
pull1D
Entries 94
Mean 0.002083
Std Dev 0.996

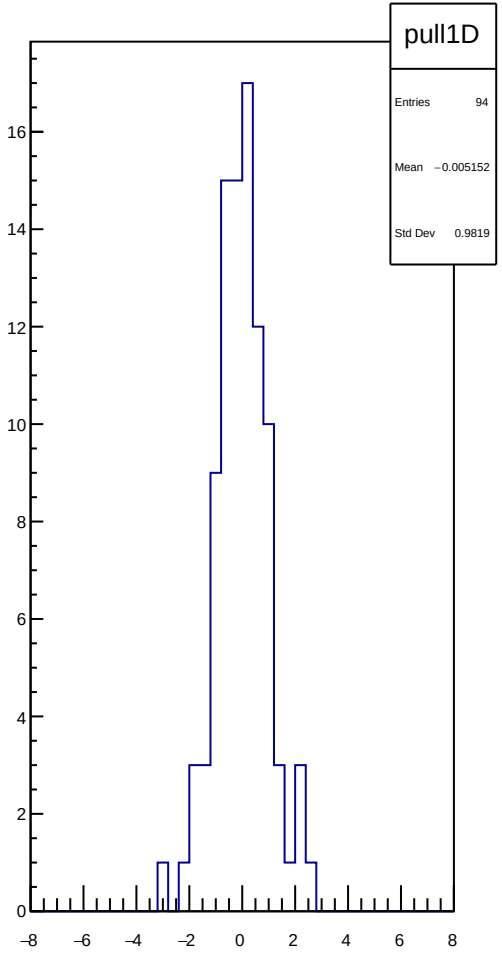

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 97.34 / 93
p0 1842 ± 1.387
1900
1880
1860
1840
1820
1800

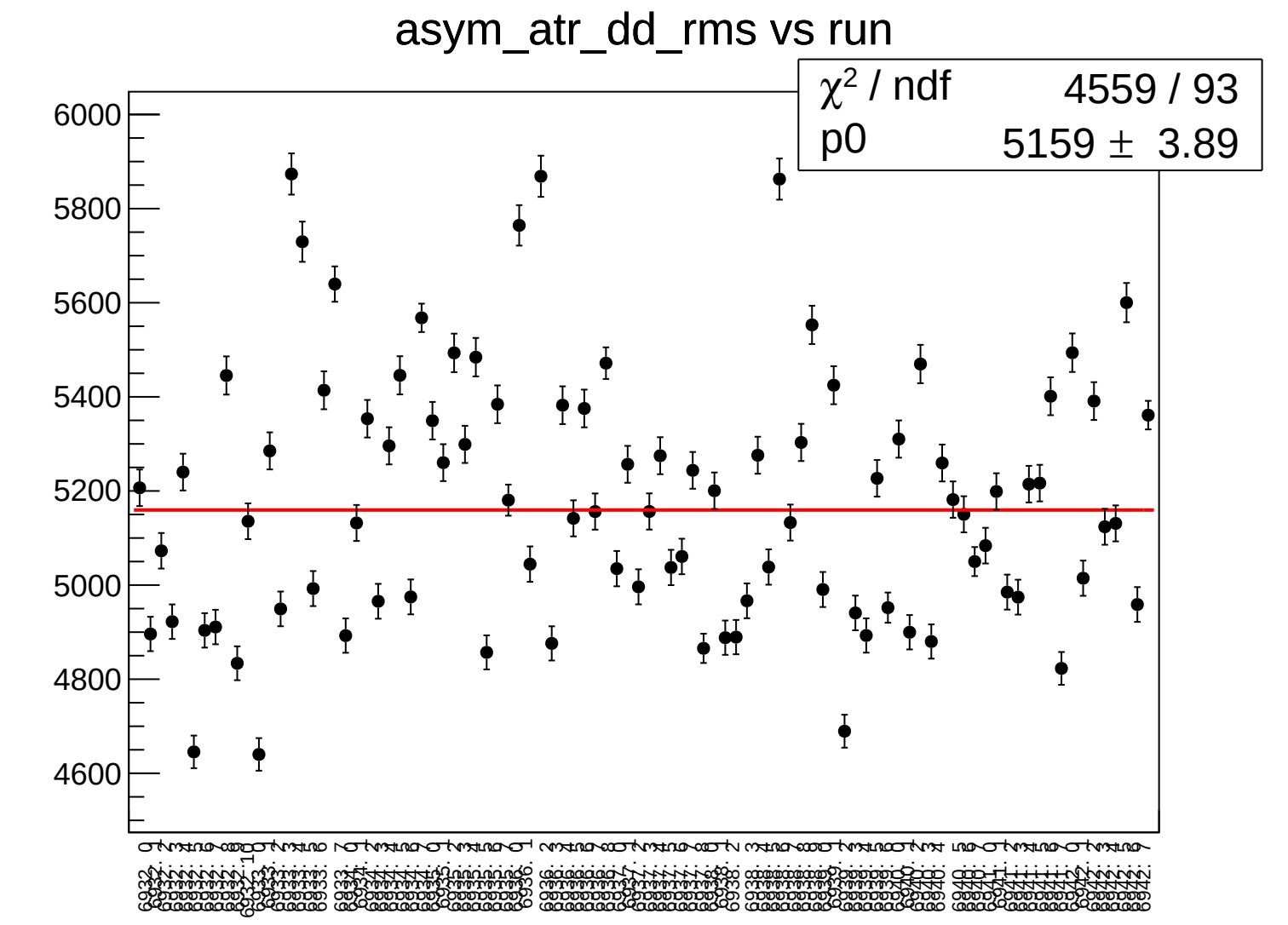

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.47 / 93
p0 −6064 ± 5443
pull
Entries 94
Mean 483.6
Std Dev 0

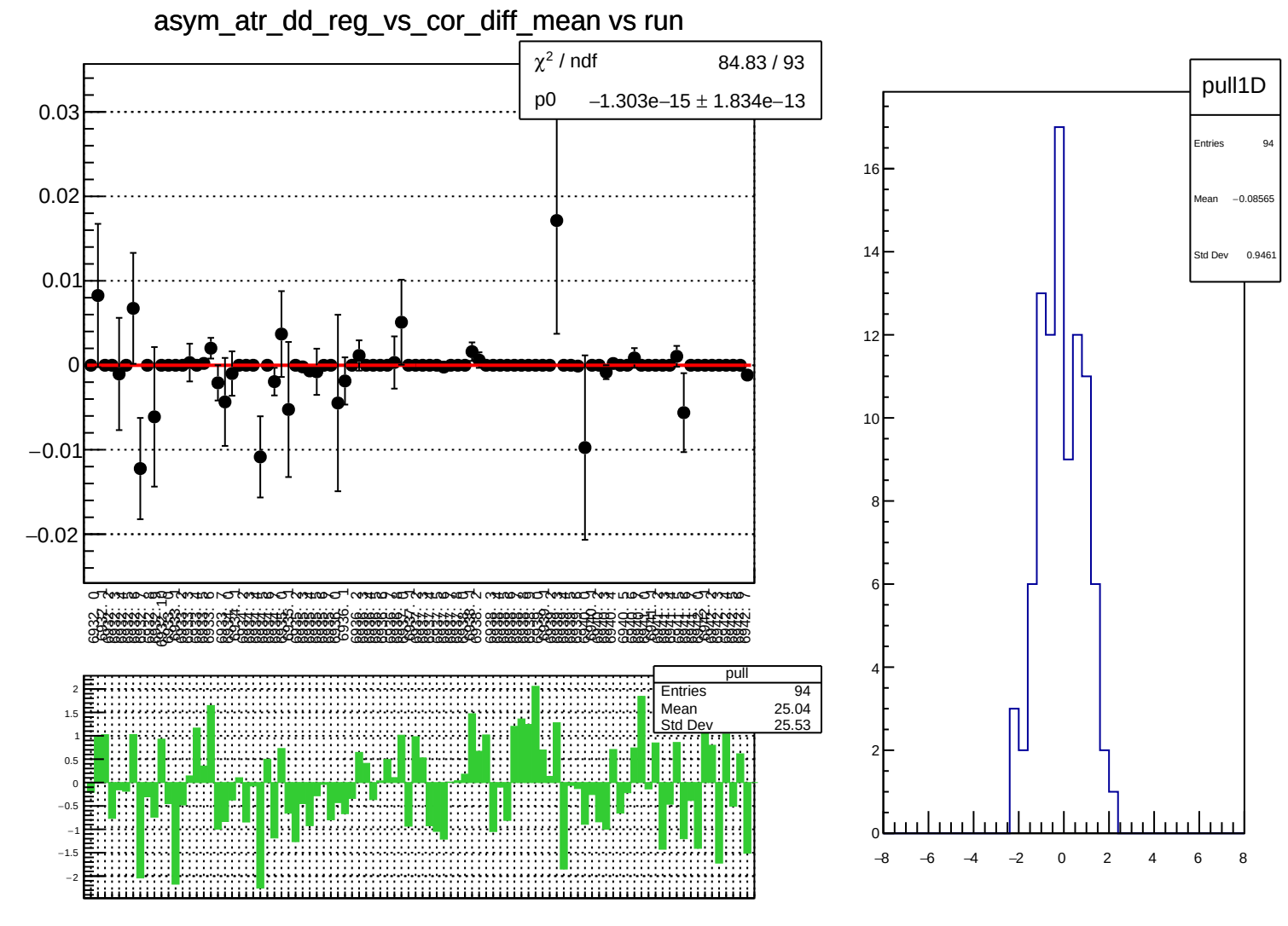

pull1D
Entries 94
Mean 0.007032
Std Dev 0.9535

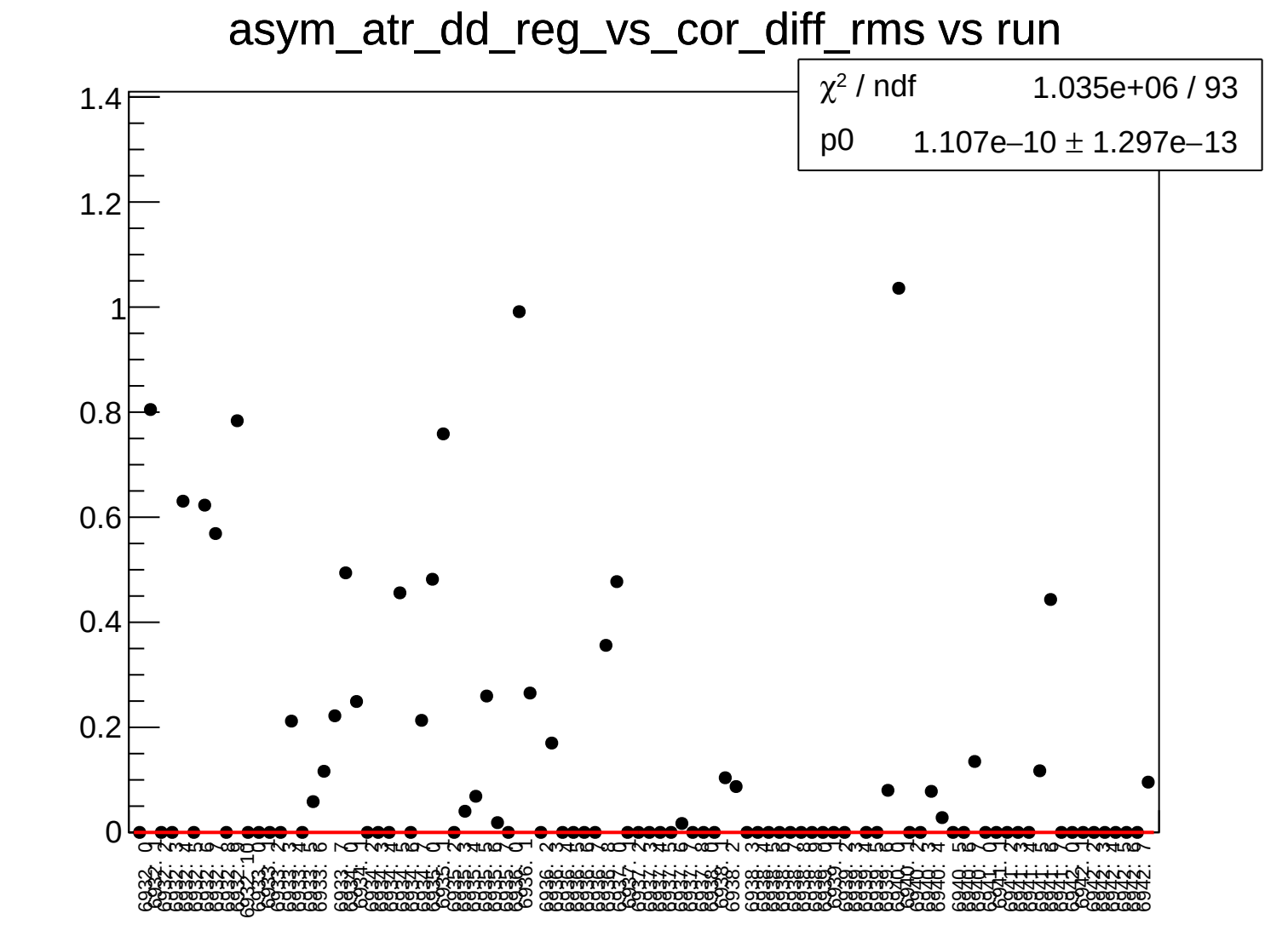

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5862 / 93
p0 5103 ± 3.849
6000
5800
5600
5400
5200
5000
4800
4600
4400

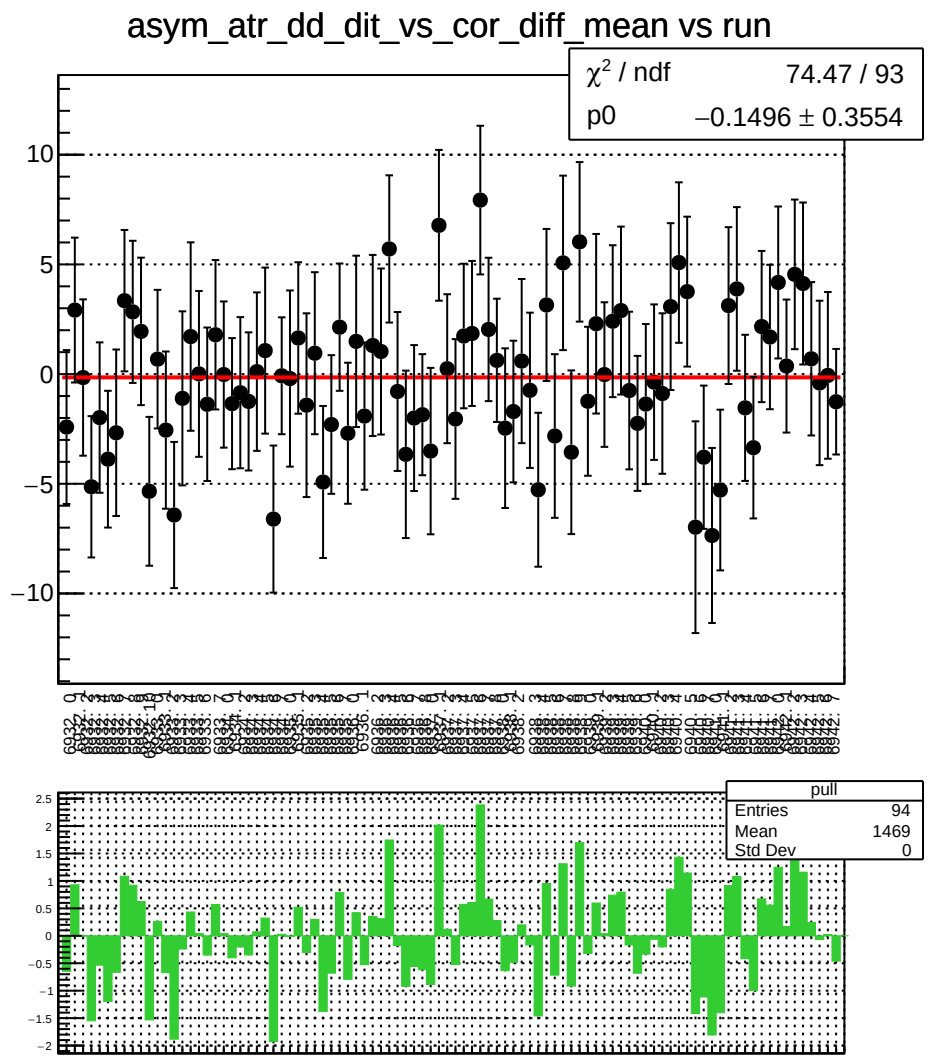

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 90.64 / 93
p0 4150 ± 5501
pull
Entries 94
Mean 520.7
Std Dev 0

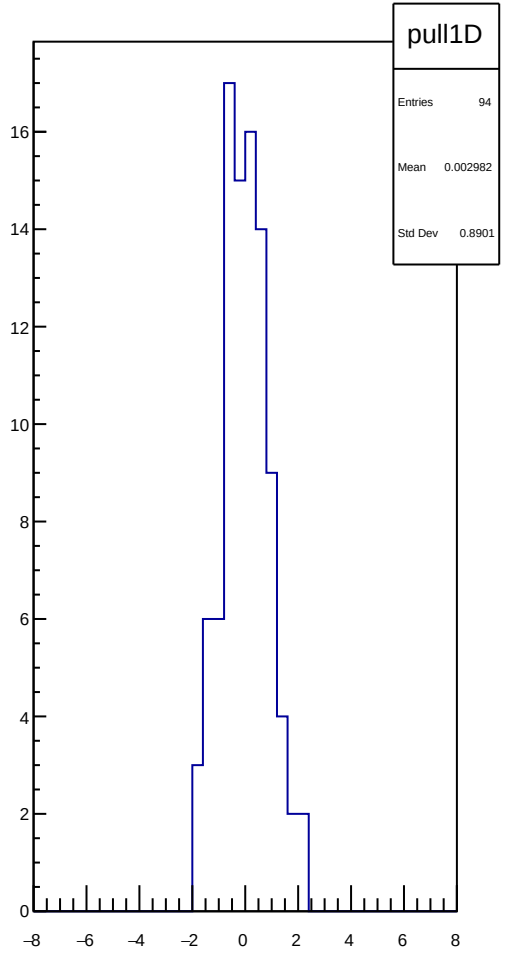

pull1D
Entries 94
Mean −0.005152
Std Dev 0.9819

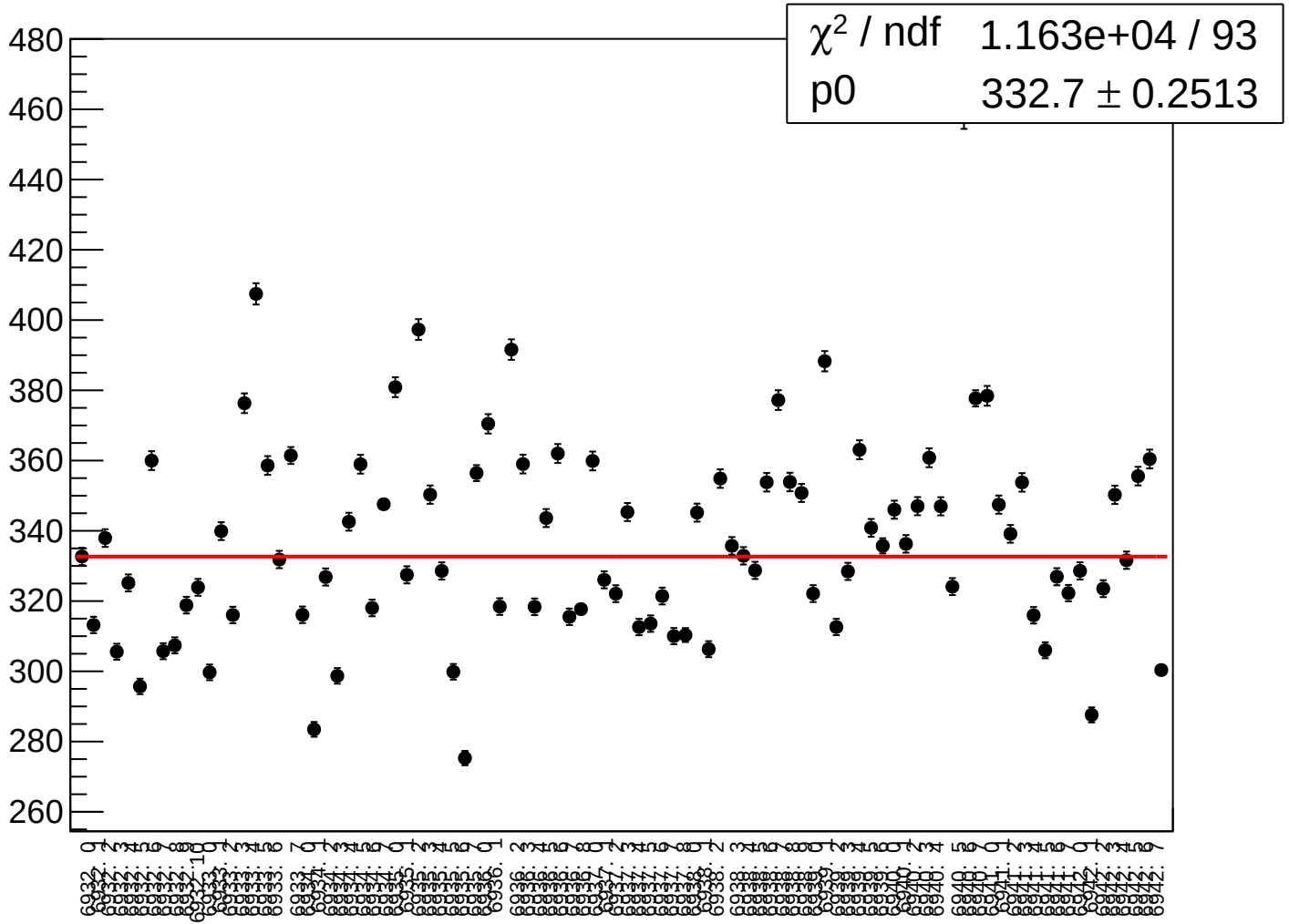

asym_atr_dd_rms vs run
χ² / ndf 4559 / 93
p0 5159 ± 3.89
6000
5800
5600
5400
5200
5000
4800
4600

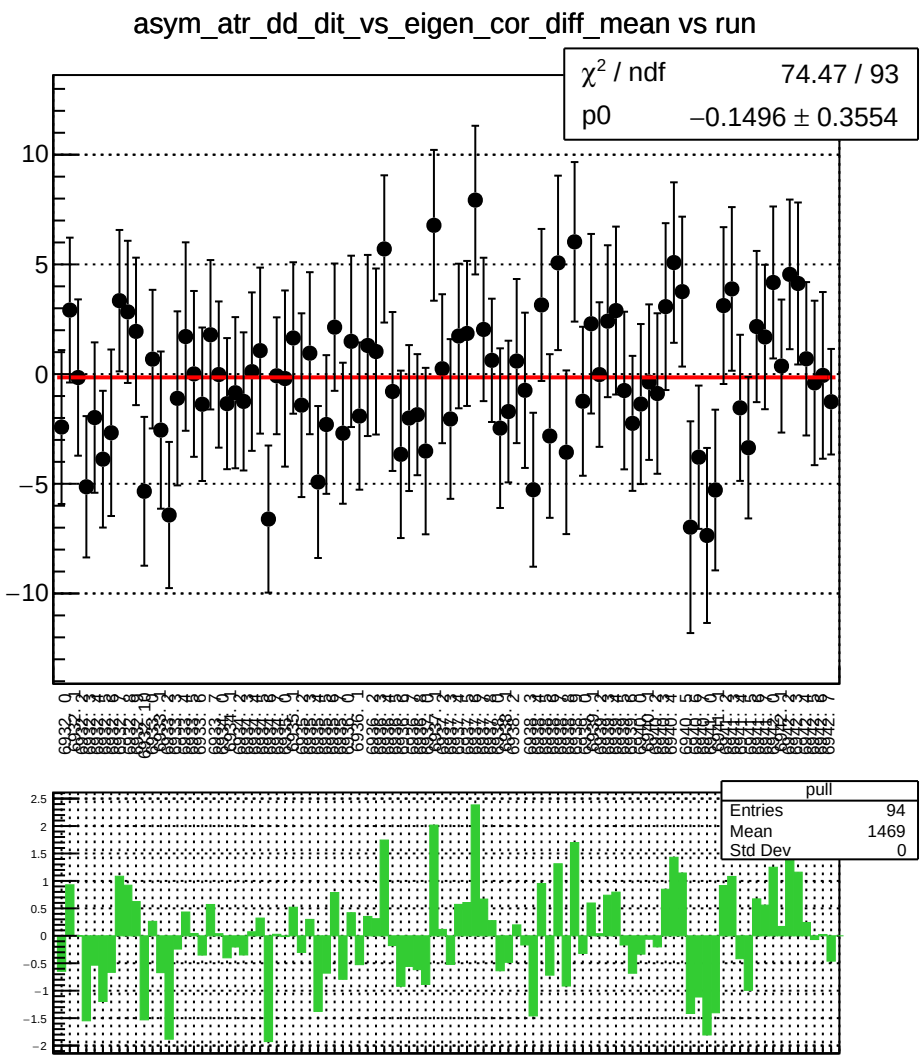

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.83 / 93
p0 −1.303e−15 ± 1.834e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 25.04
Std Dev 25.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.08565
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

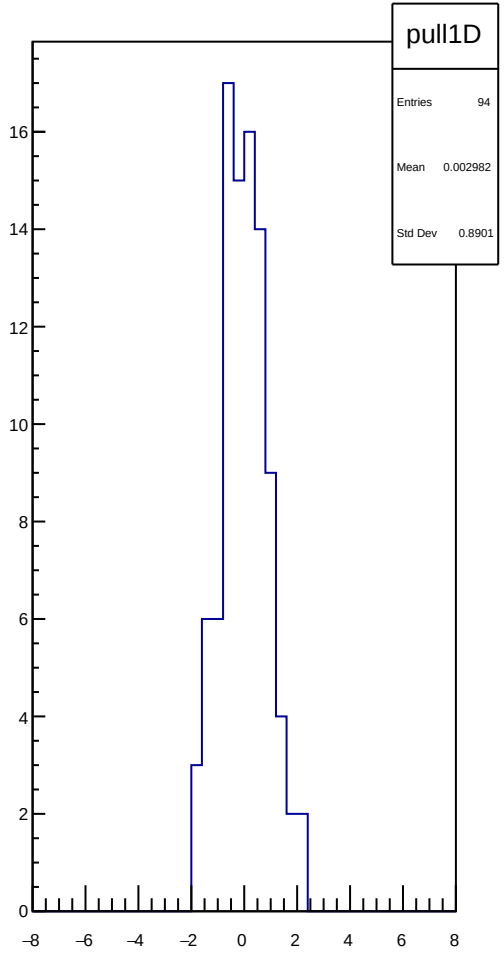

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 93
p0 1.107e−10 ± 1.297e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

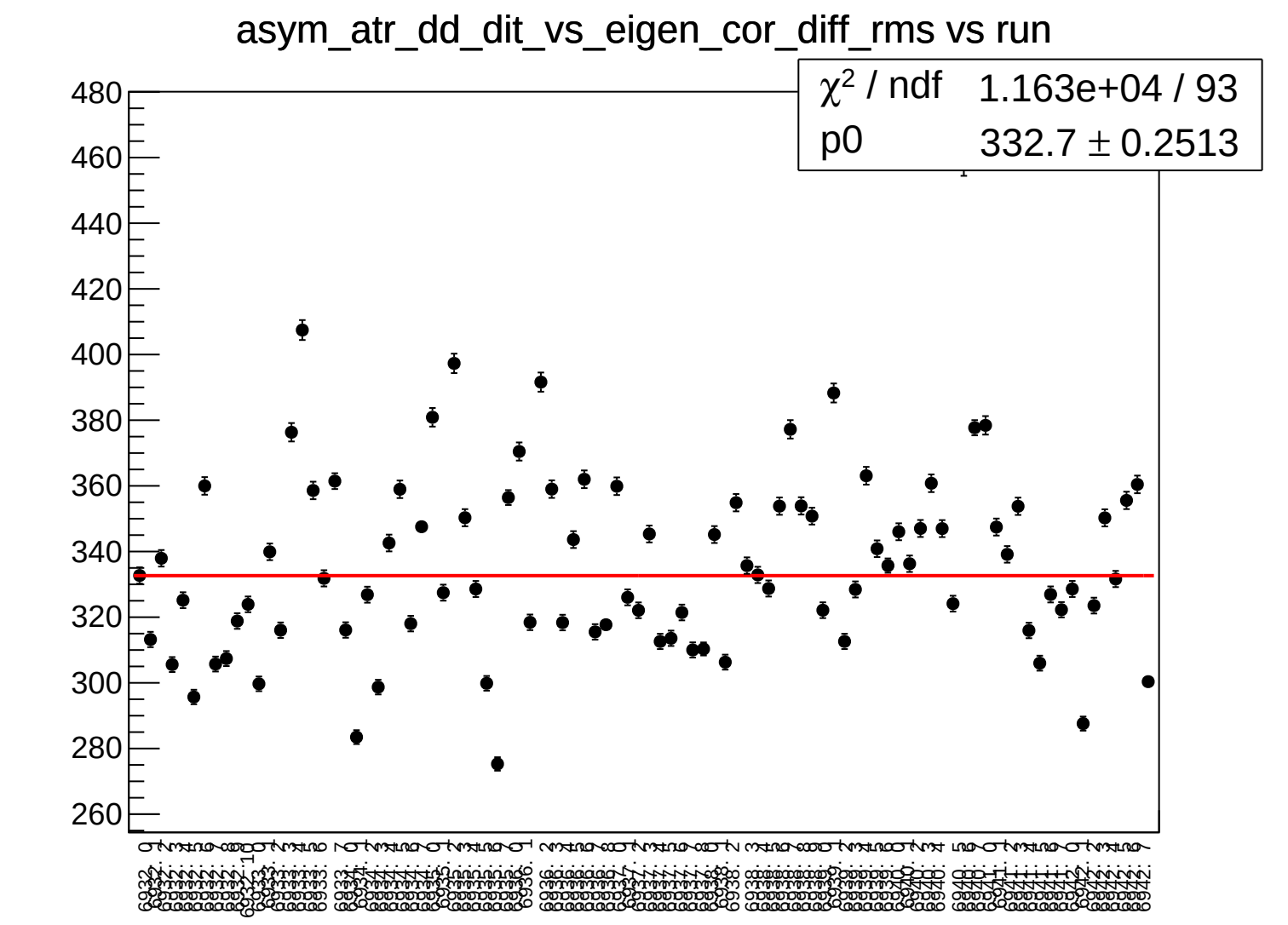

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.47 / 93
p0 −0.1496 ± 0.3554
pull
Entries 94
Mean 1469
Std Dev 0

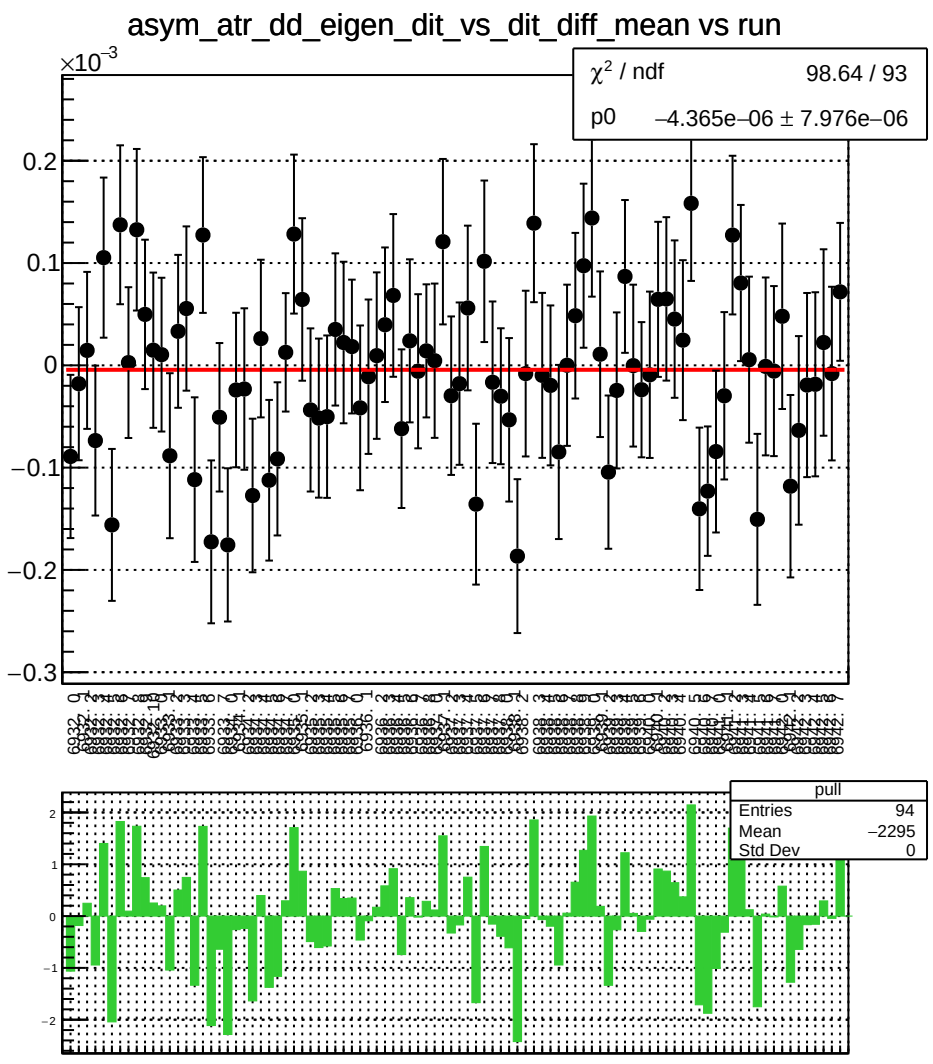

pull1D
Entries 94
Mean 0.002982
Std Dev 0.8901

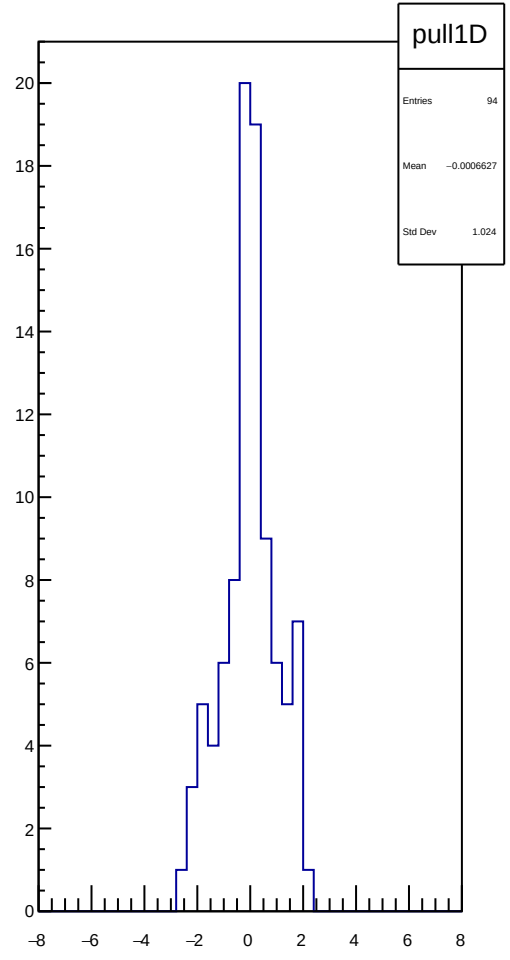

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.163e+04 / 93
p0 332.7 ± 0.2513
480
460
440
420
400
380
360
340
320
300
280
260

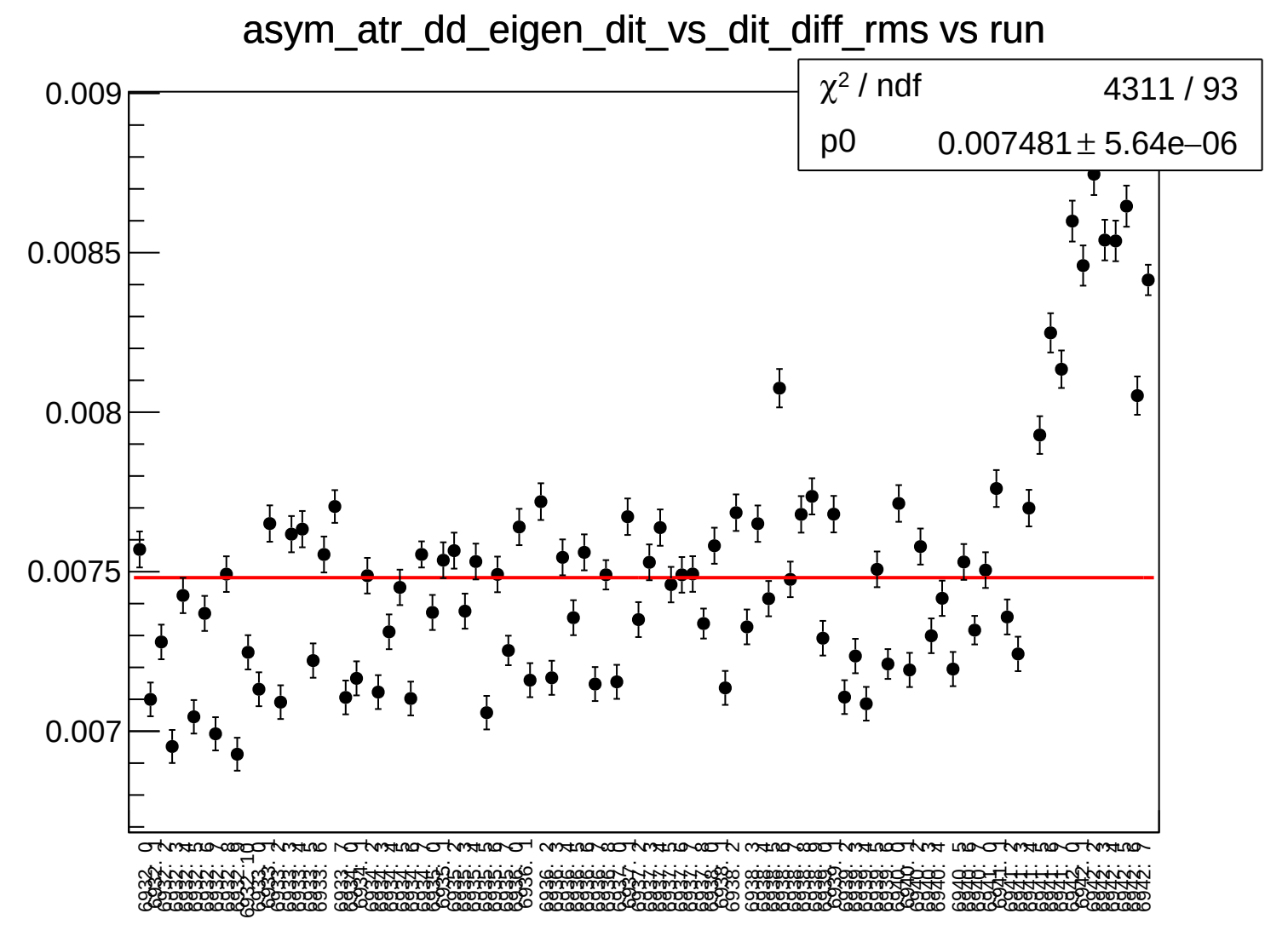

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.47 / 93
p0 −0.1496 ± 0.3554
10
5
0
−5
−10
pull
Entries 94
Mean 1469
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

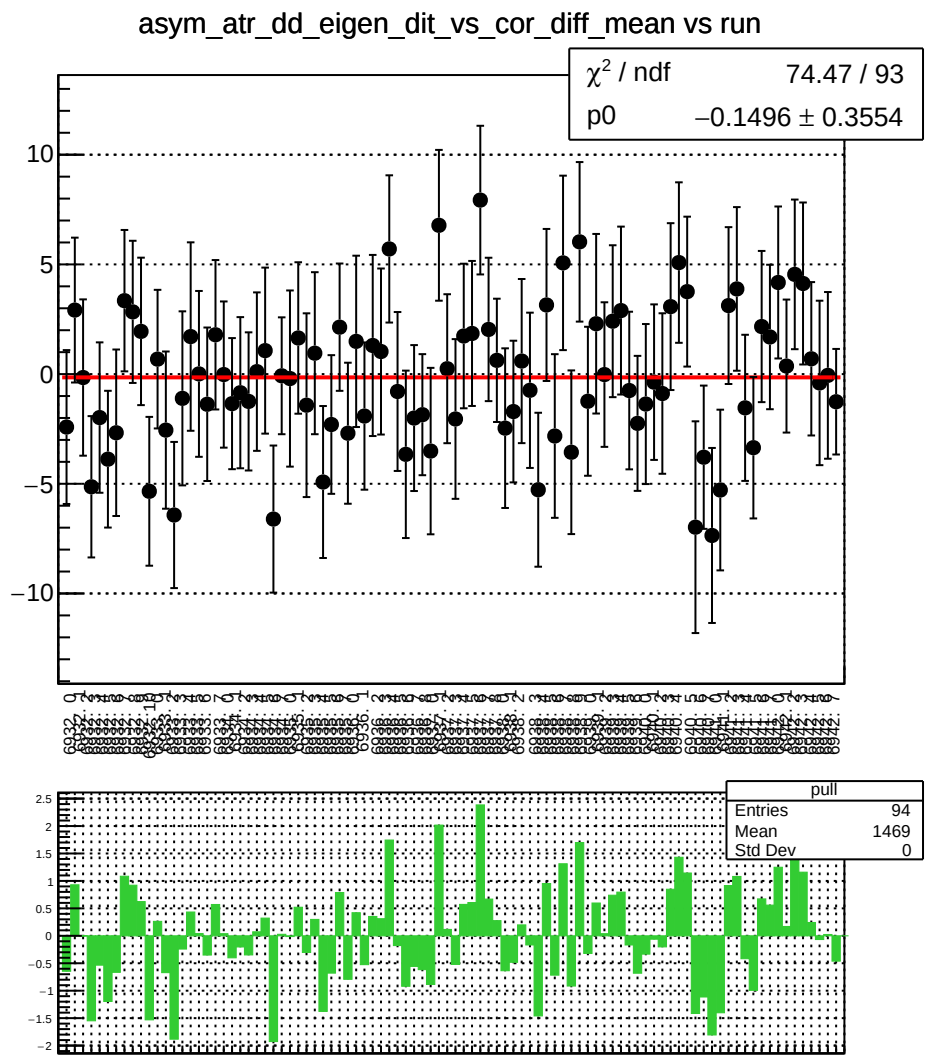

pull1D
Entries 94
Mean 0.002982
Std Dev 0.8901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

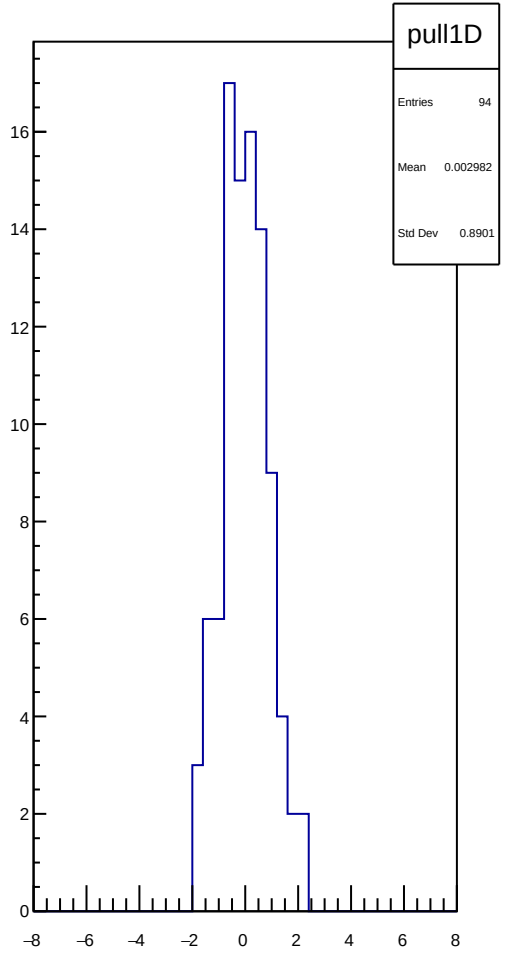

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.163e+04 / 93
p0 332.7 ± 0.2513
480
460
440
420
400
380
360
340
320
300
280
260

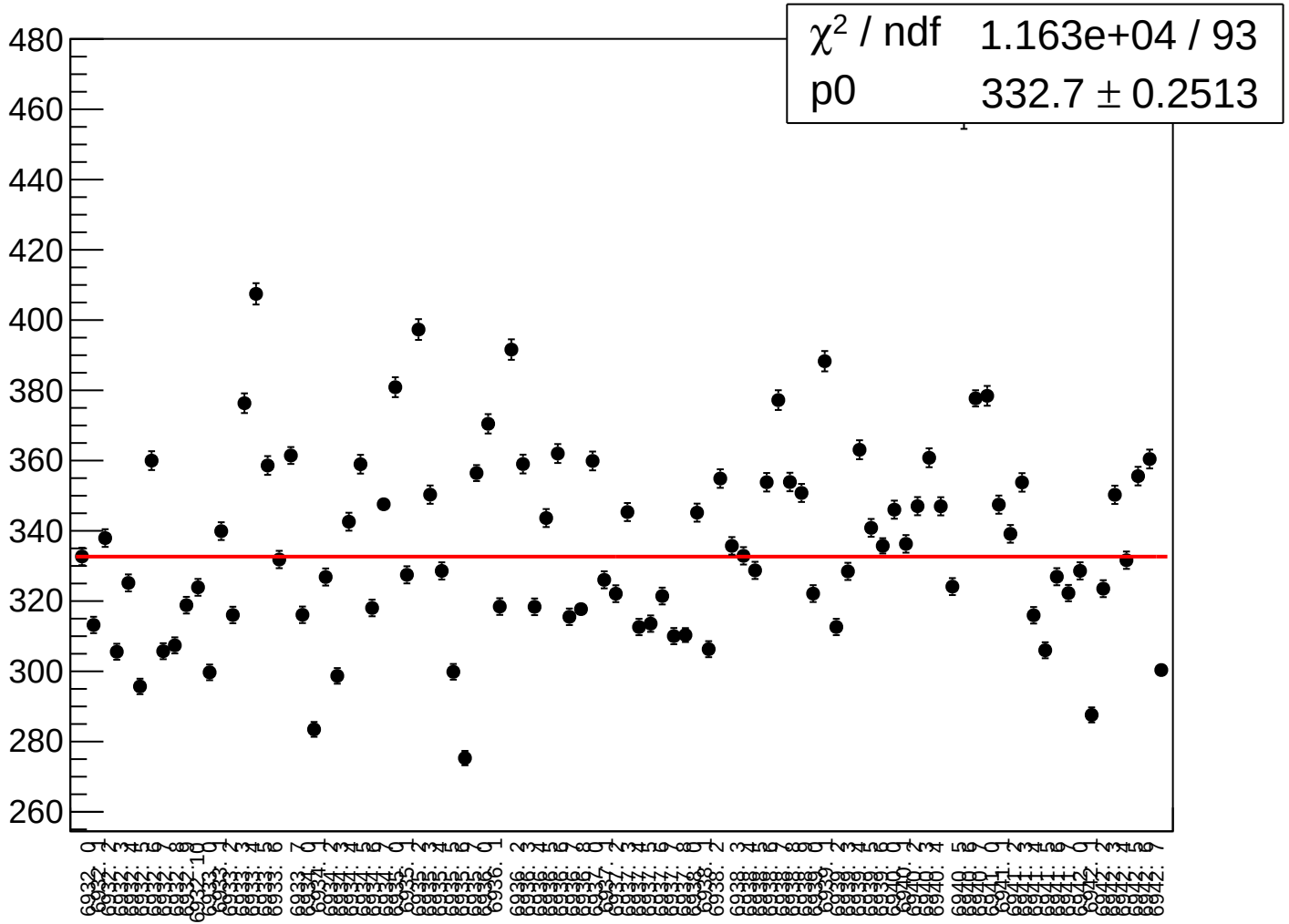

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.64 / 93
p0 −4.365e−06 ± 7.976e−06
pull
Entries 94
Mean −2295
Std Dev 0

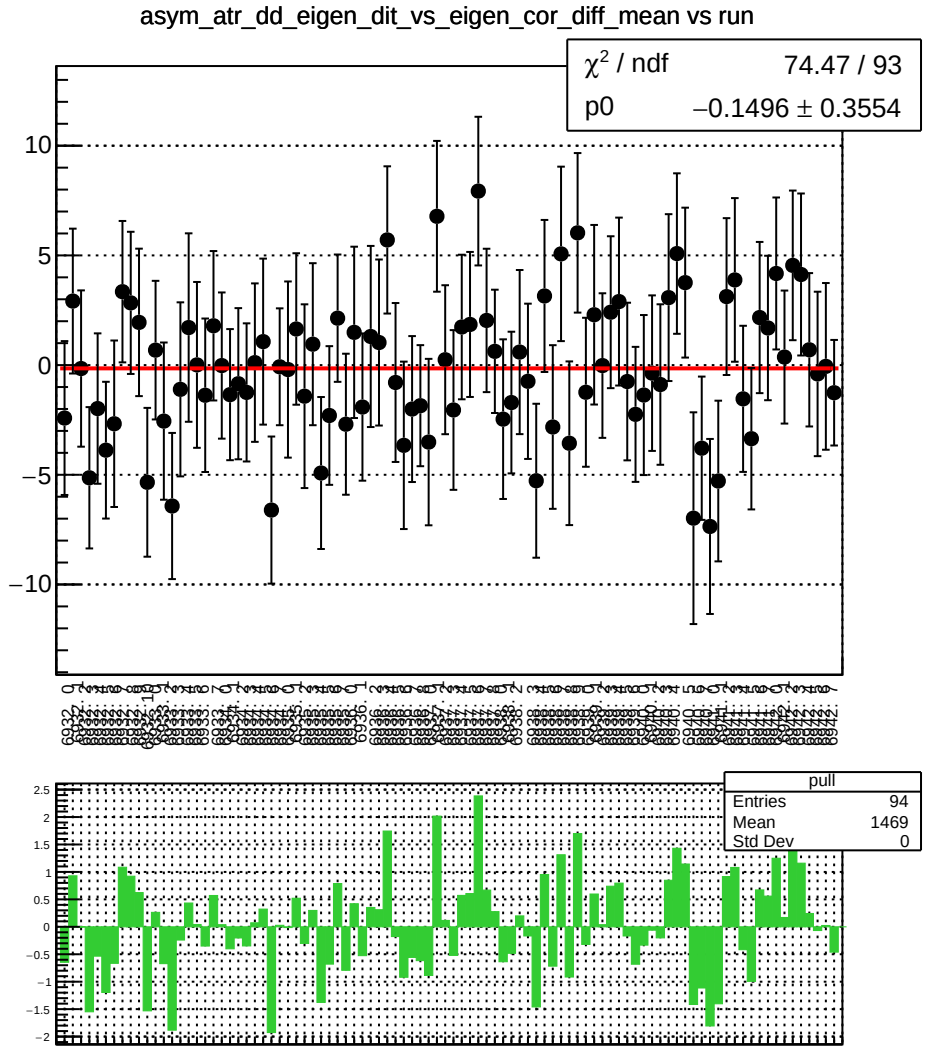

pull1D
Entries 94
Mean −0.0006627
Std Dev 1.024

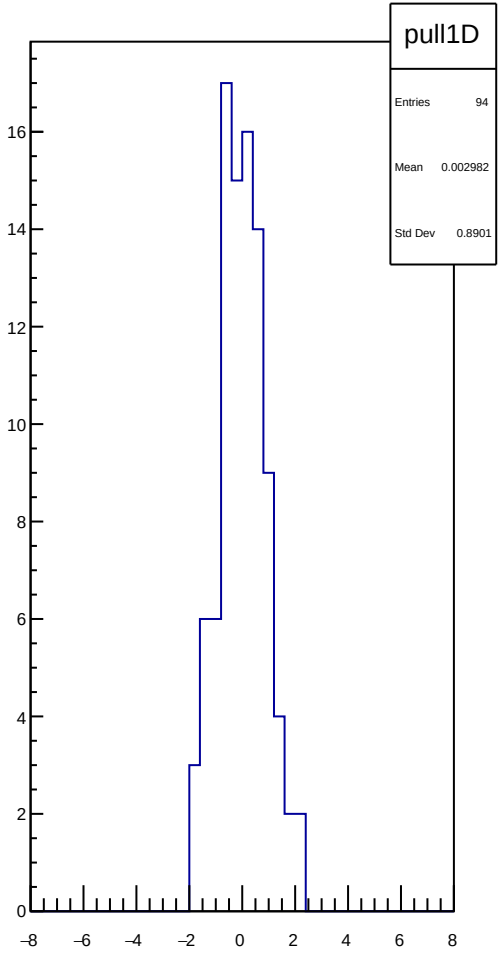

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4311 / 93
p0 0.007481 ± 5.64e–06
0.009
0.0085
0.008
0.0075
0.007

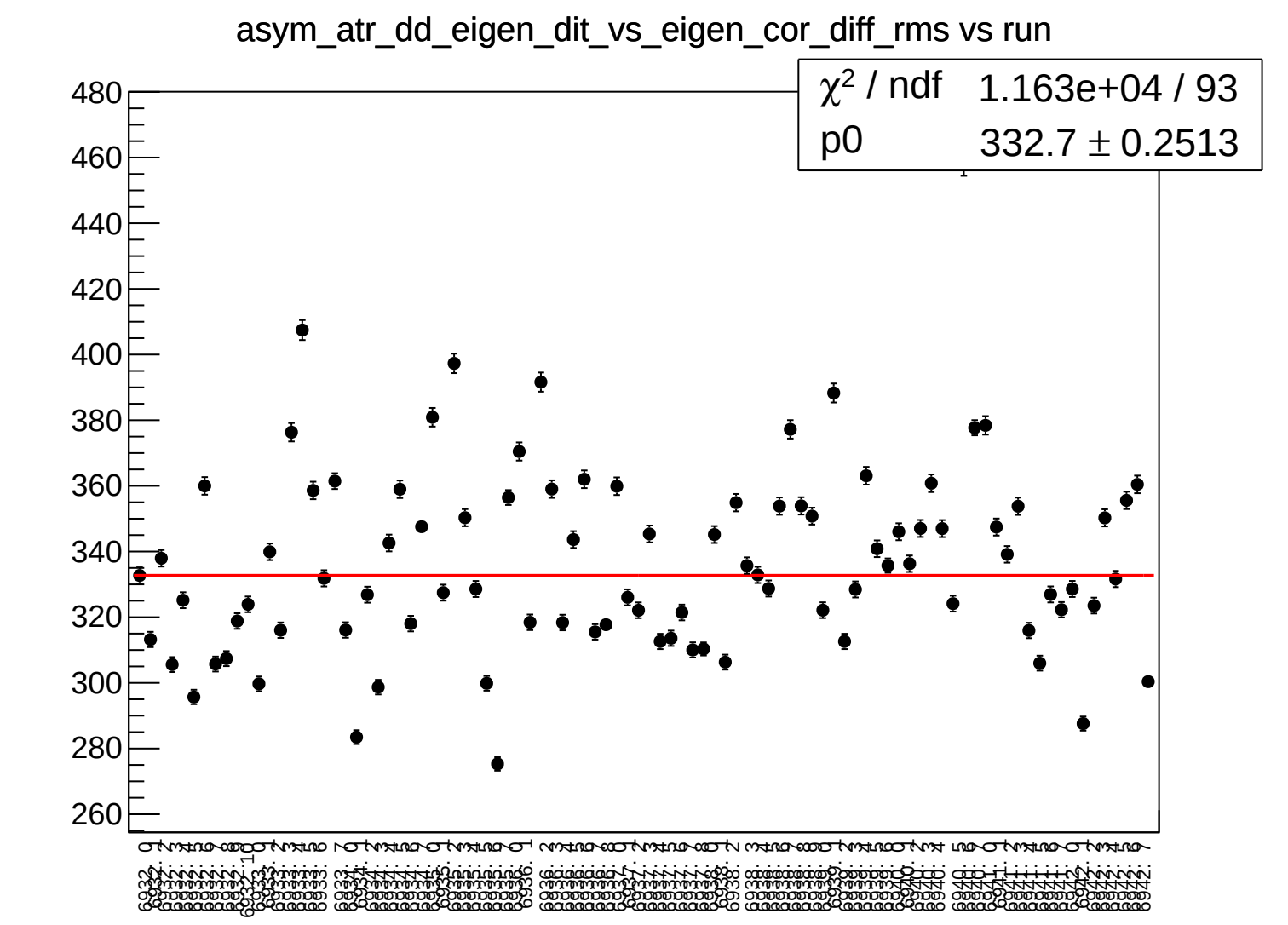

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.47 / 93
p0 −0.1496 ± 0.3554
pull
Entries 94
Mean 1469
Std Dev 0

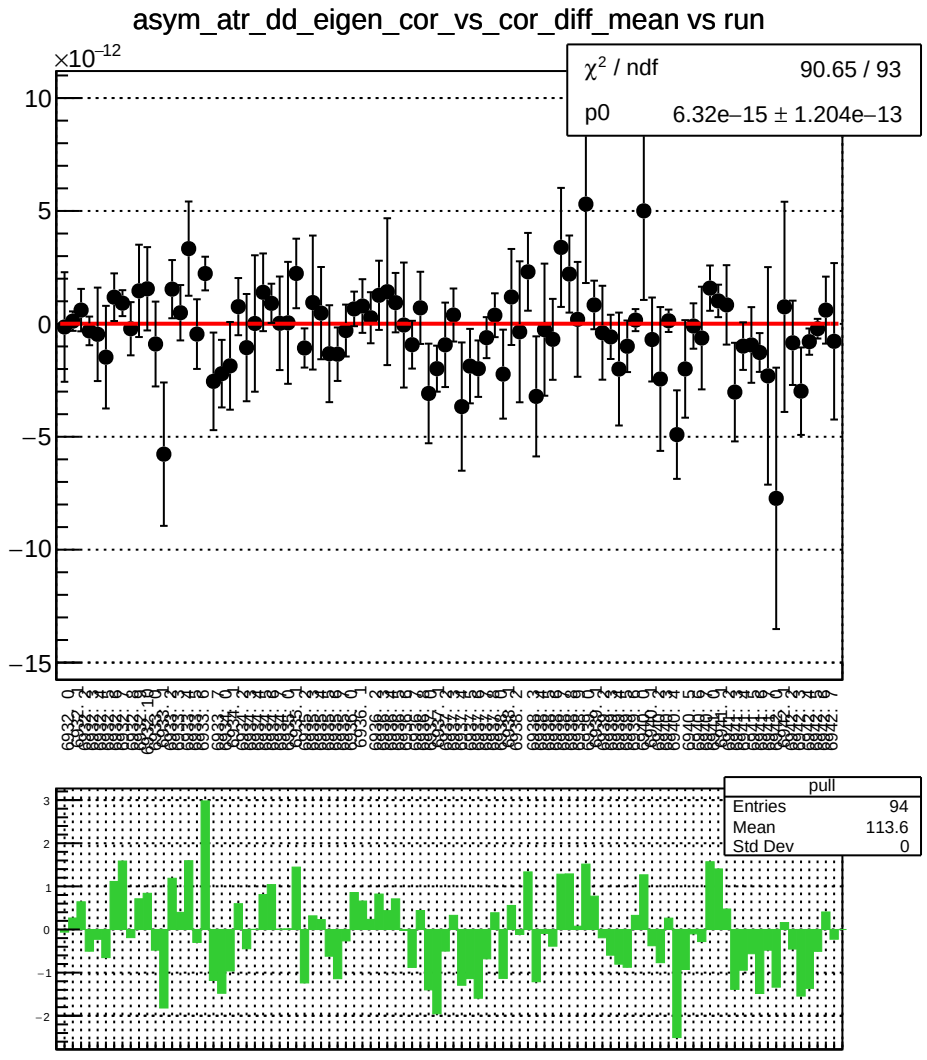

pull1D
Entries 94
Mean 0.002982
Std Dev 0.8901

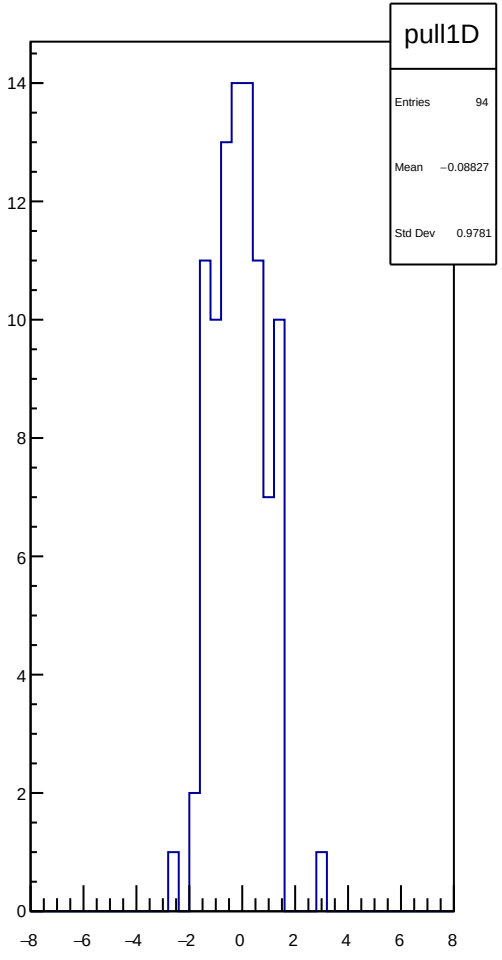

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 93
p0 332.7 ± 0.2513
480
460
440
420
400
380
360
340
320
300
280
260

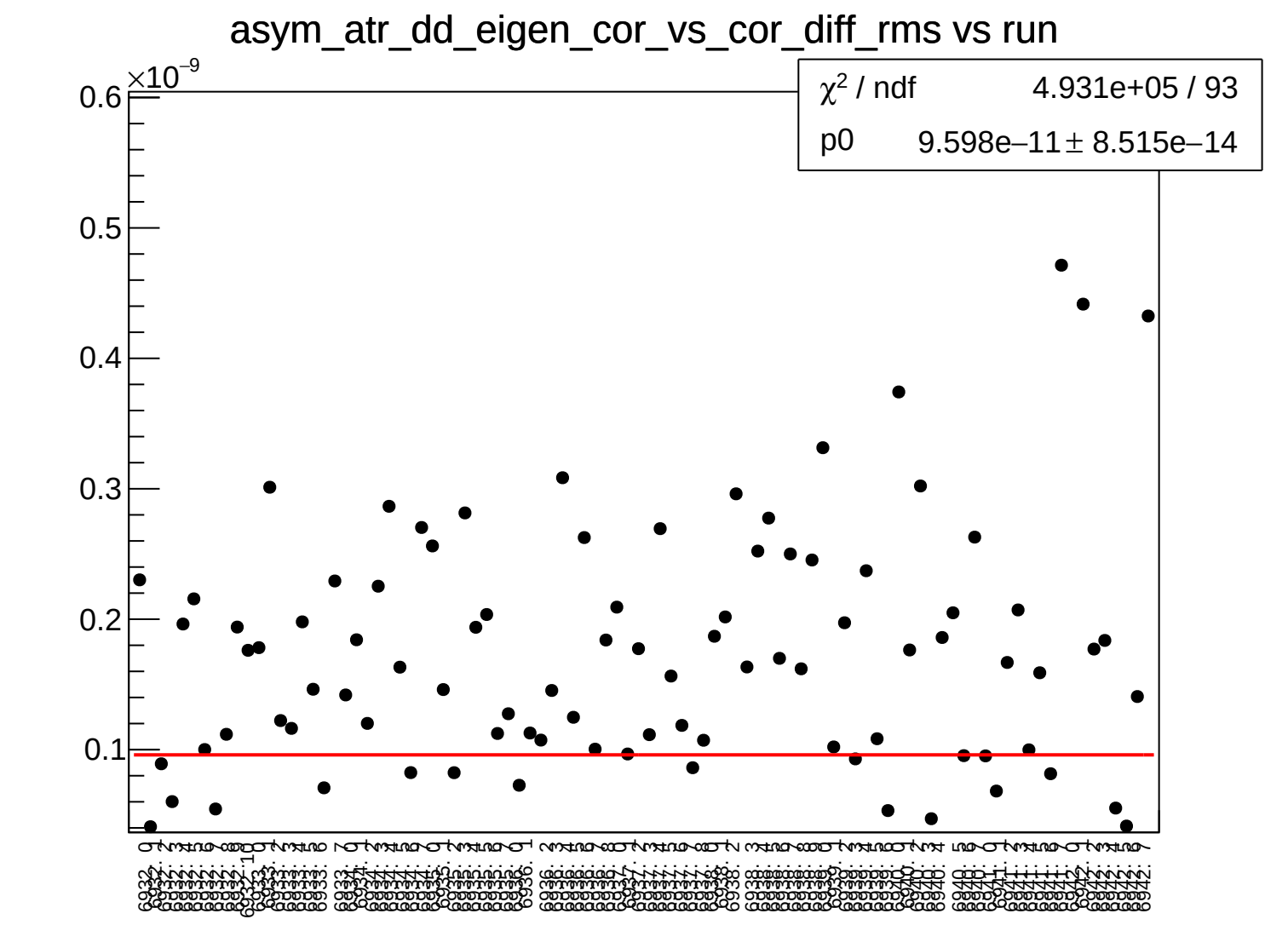

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.47 / 93
p0 −0.1496 ± 0.3554
pull
Entries 94
Mean 1469
Std Dev 0

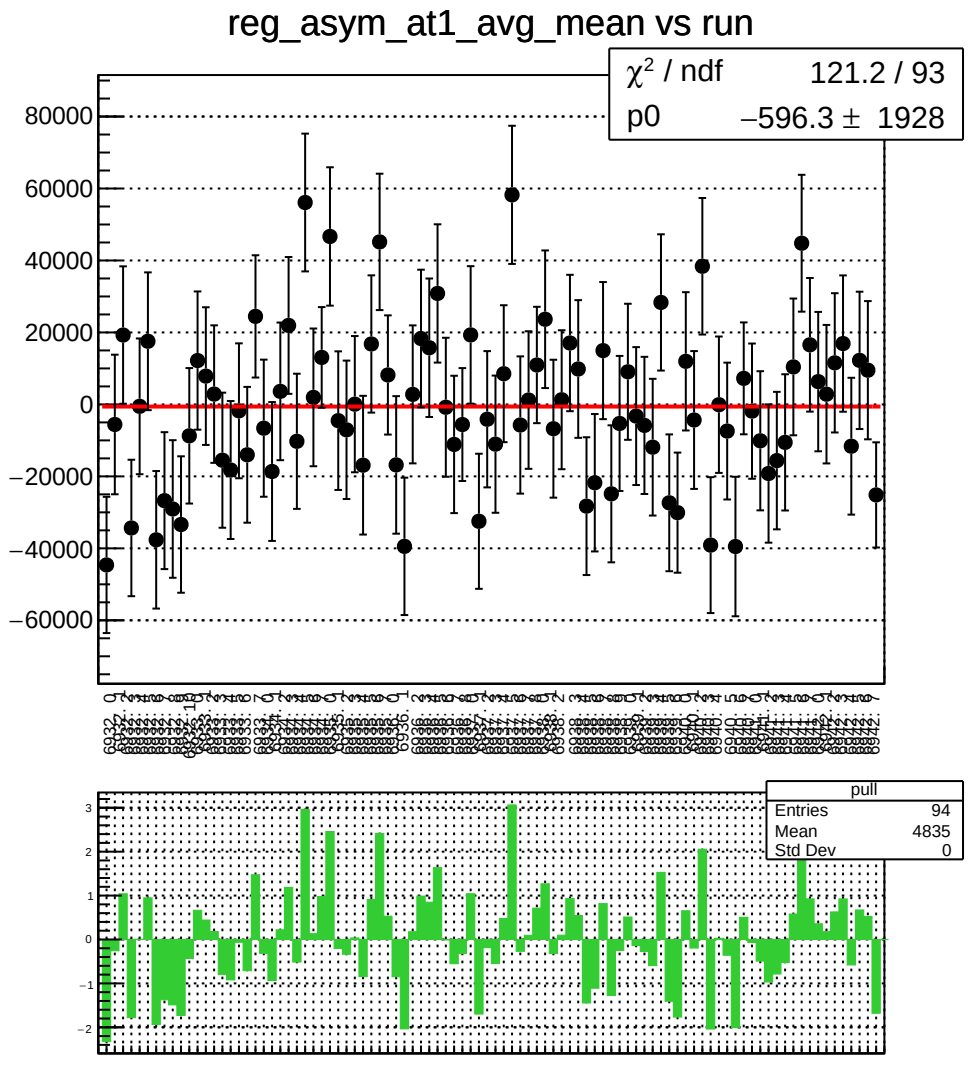

pull1D
Entries 94
Mean 0.002982
Std Dev 0.8901

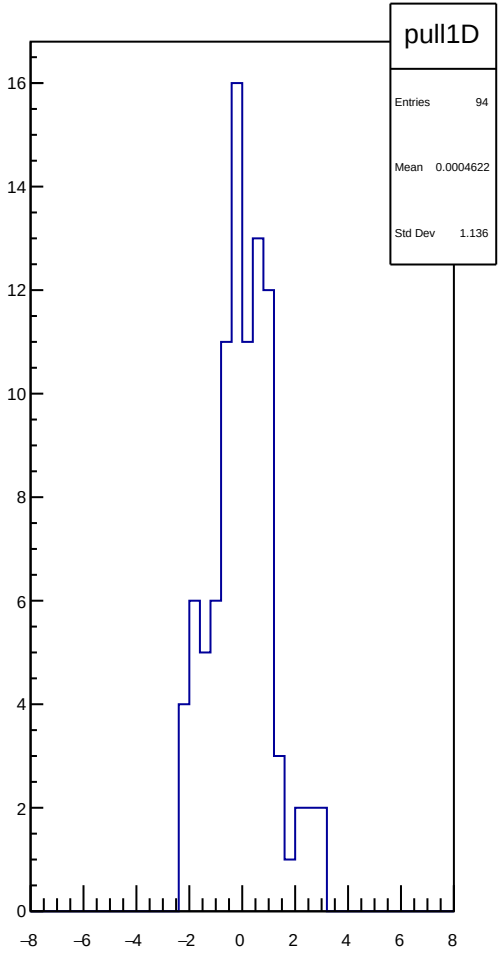

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.163e+04 / 93
p0 332.7 ± 0.2513
480
460
440
420
400
380
360
340
320
300
280
260

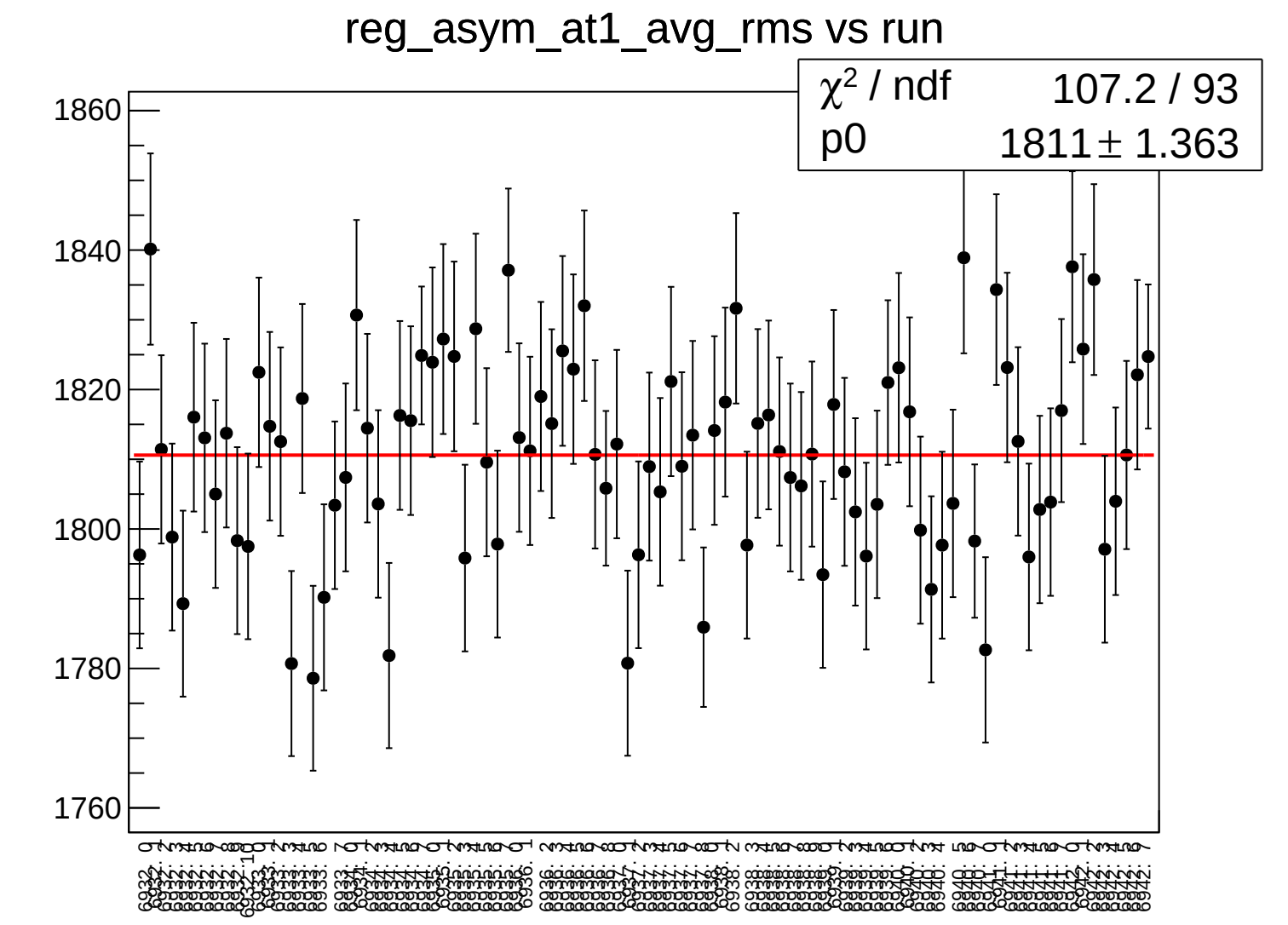

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.65 / 93
p0 6.32e−15 ± 1.204e−13
pull
Entries 94
Mean 113.6
Std Dev 0

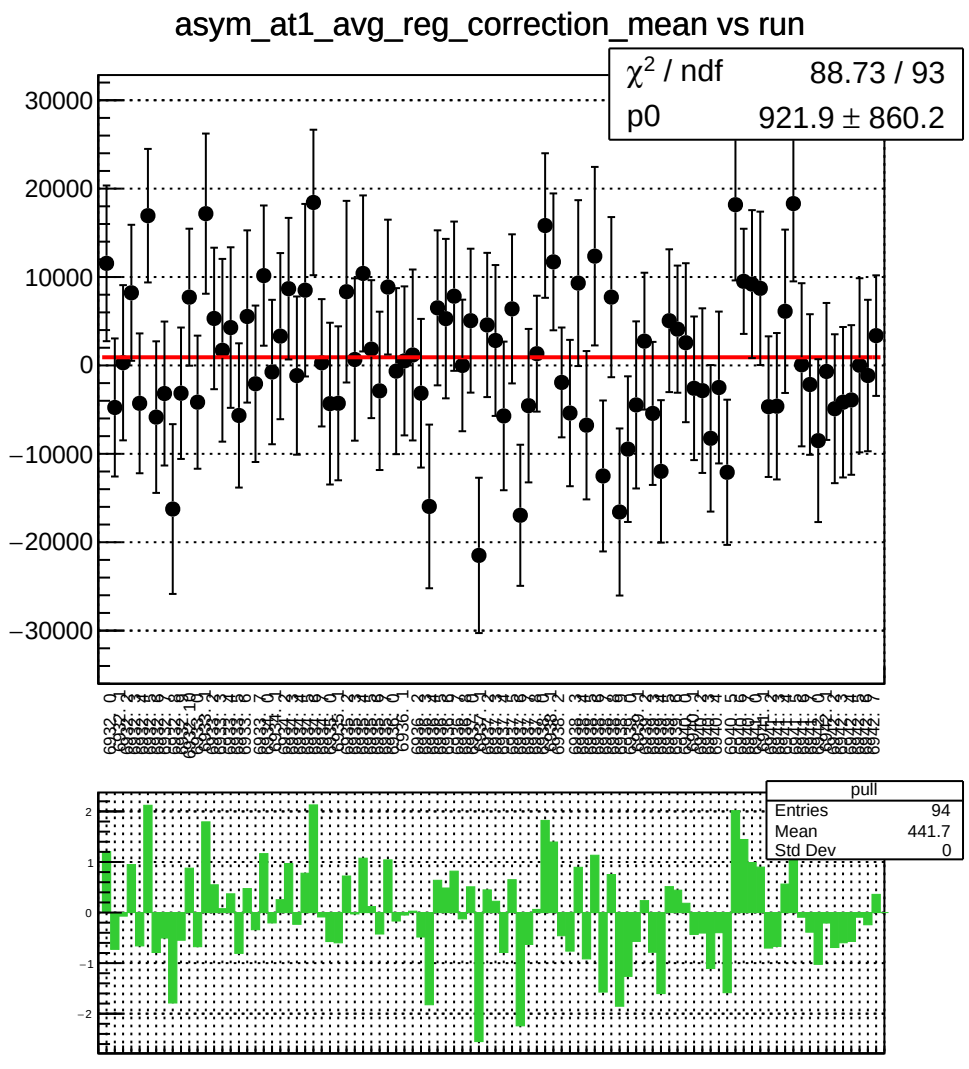

pull1D
Entries 94
Mean −0.08827
Std Dev 0.9781

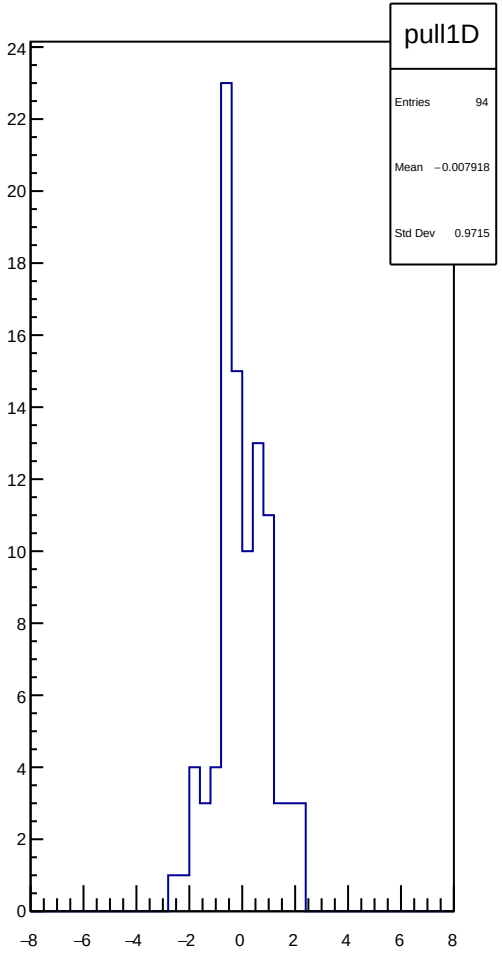

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.931e+05 / 93
p0 9.598e−11 ± 8.515e−14
0.6
0.5
0.4
0.3
0.2
0.1

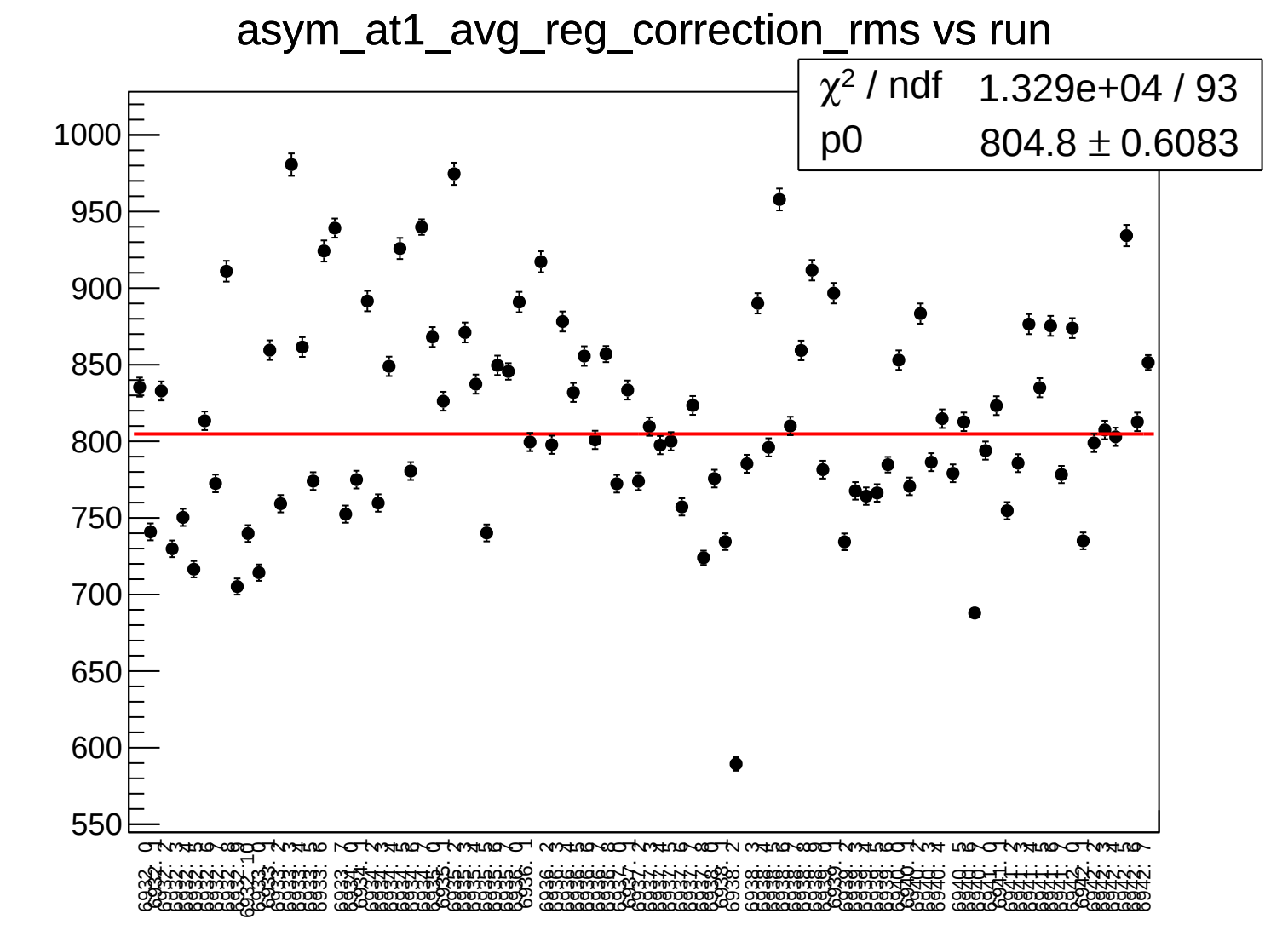

reg_asym_at1_avg_mean vs run
χ² / ndf 121.2 / 93
p0 −596.3 ± 1928
pull
Entries 94
Mean 4835
Std Dev 0

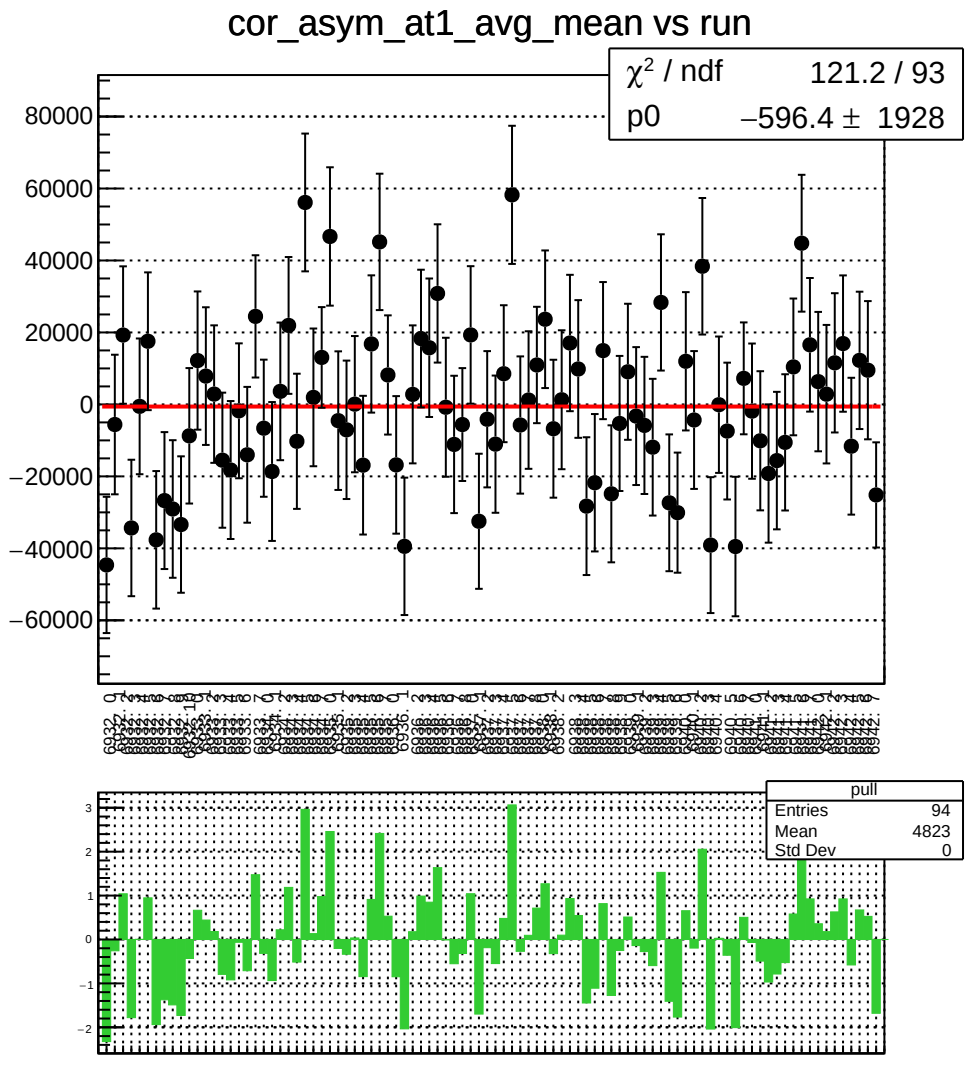

pull1D
Entries 94
Mean 0.0004622
Std Dev 1.136

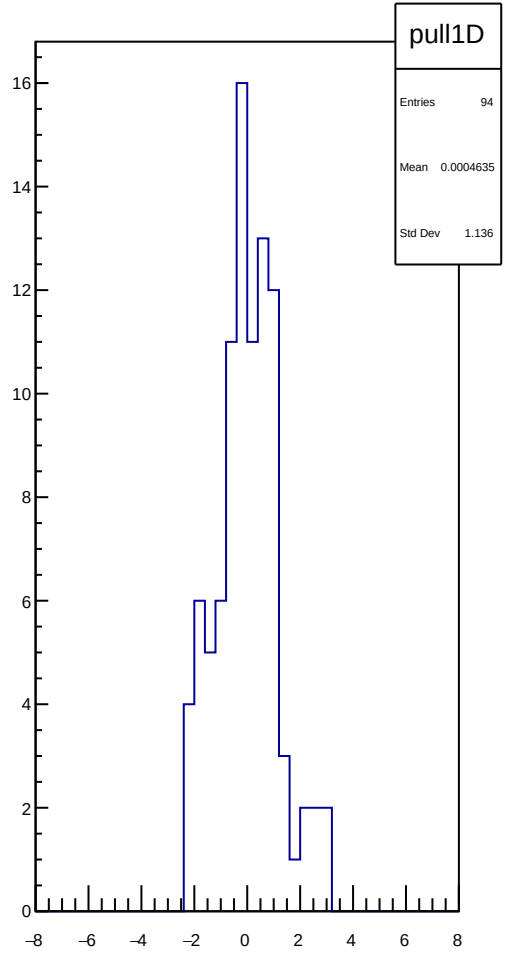

reg_asym_at1_avg_rms vs run
χ² / ndf 107.2 / 93
p0 1811 ± 1.363
1860
1840
1820
1800
1780
1760

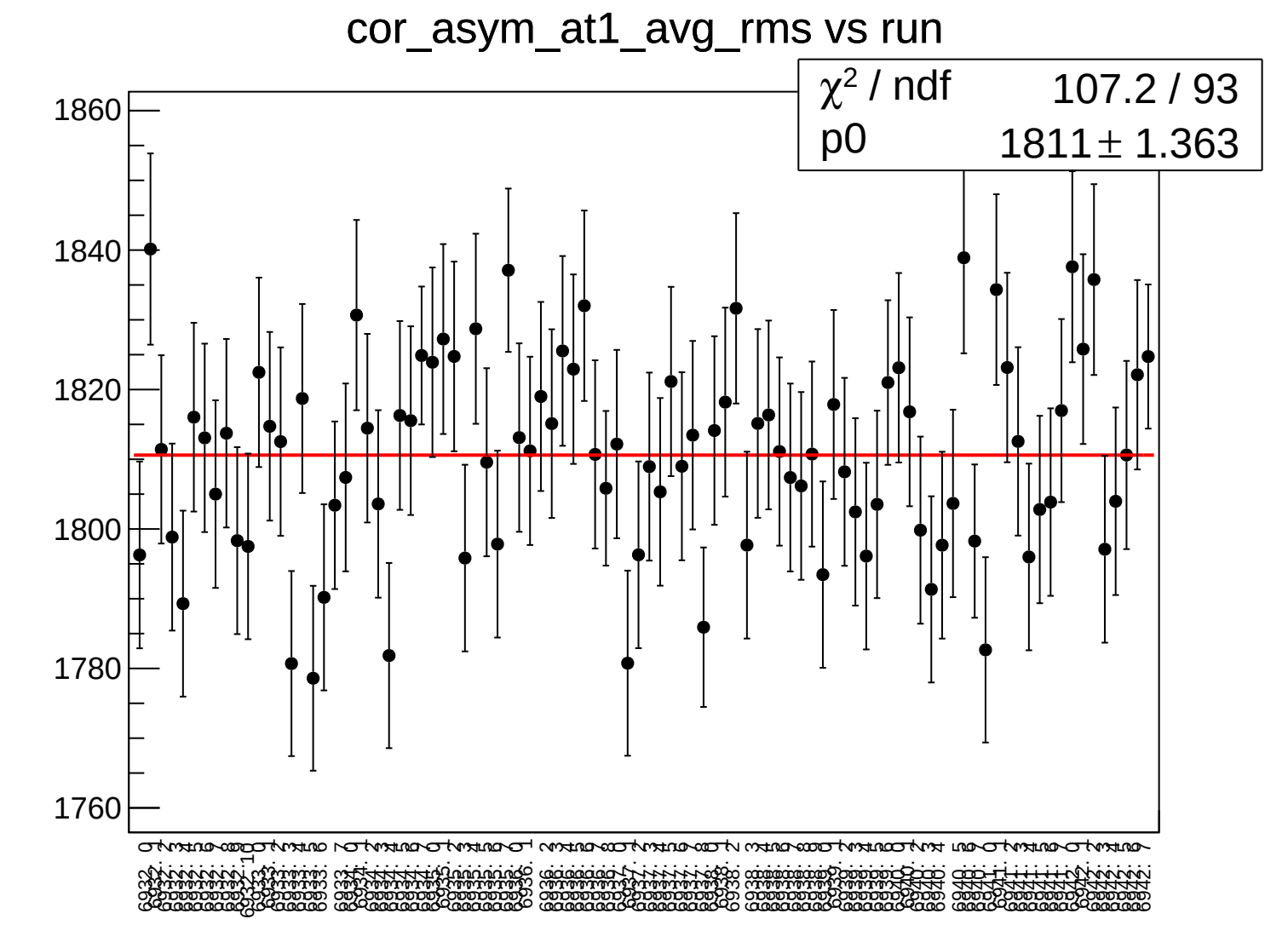

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 88.73 / 93
p0 921.9 ± 860.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 441.7
Std Dev 0
2
1
0
−1
−2

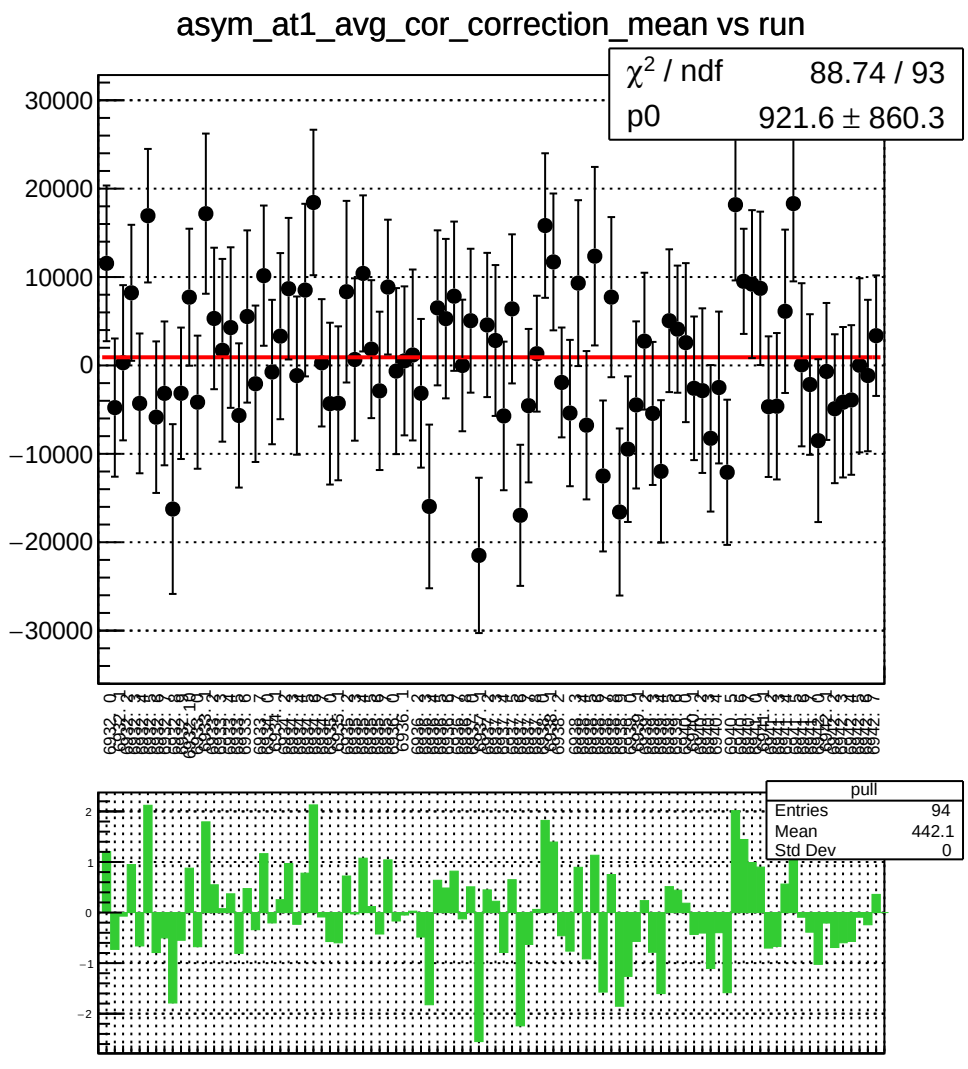

pull1D
Entries 94
Mean −0.007918
Std Dev 0.9715
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

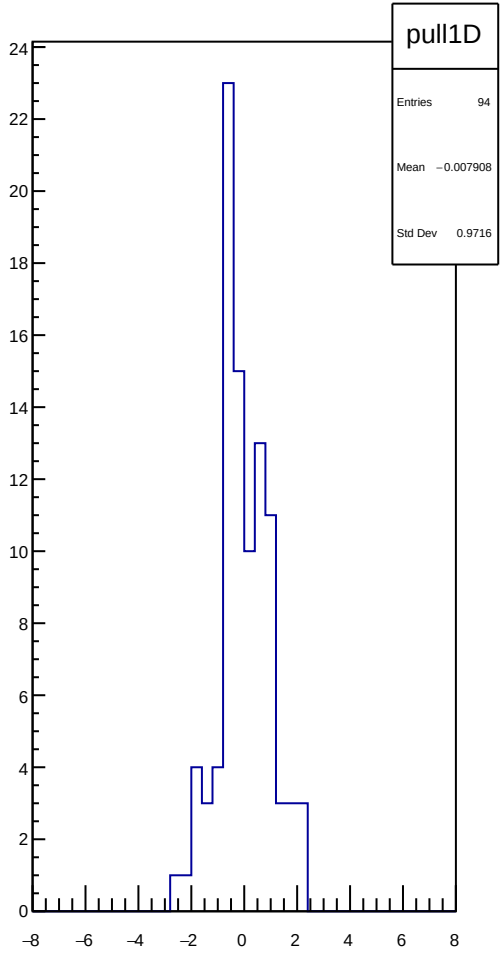

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.329e+04 / 93
p0 804.8 ± 0.6083
1000
950
900
850
800
750
700
650
600
550

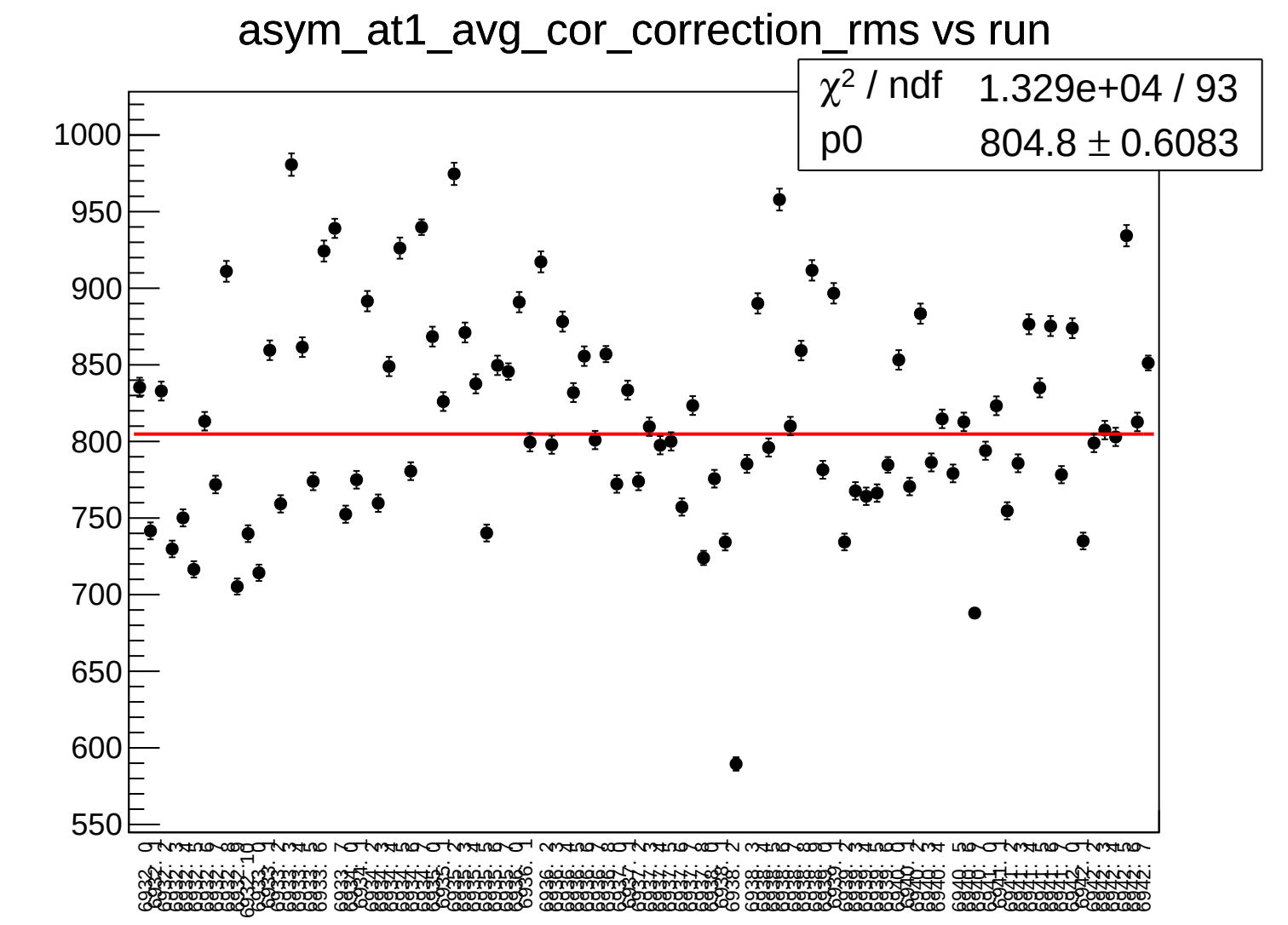

cor_asym_at1_avg_mean vs run
χ² / ndf 121.2 / 93
p0 −596.4 ± 1928
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4823
Std Dev 0
3
2
1
0
−1
−2

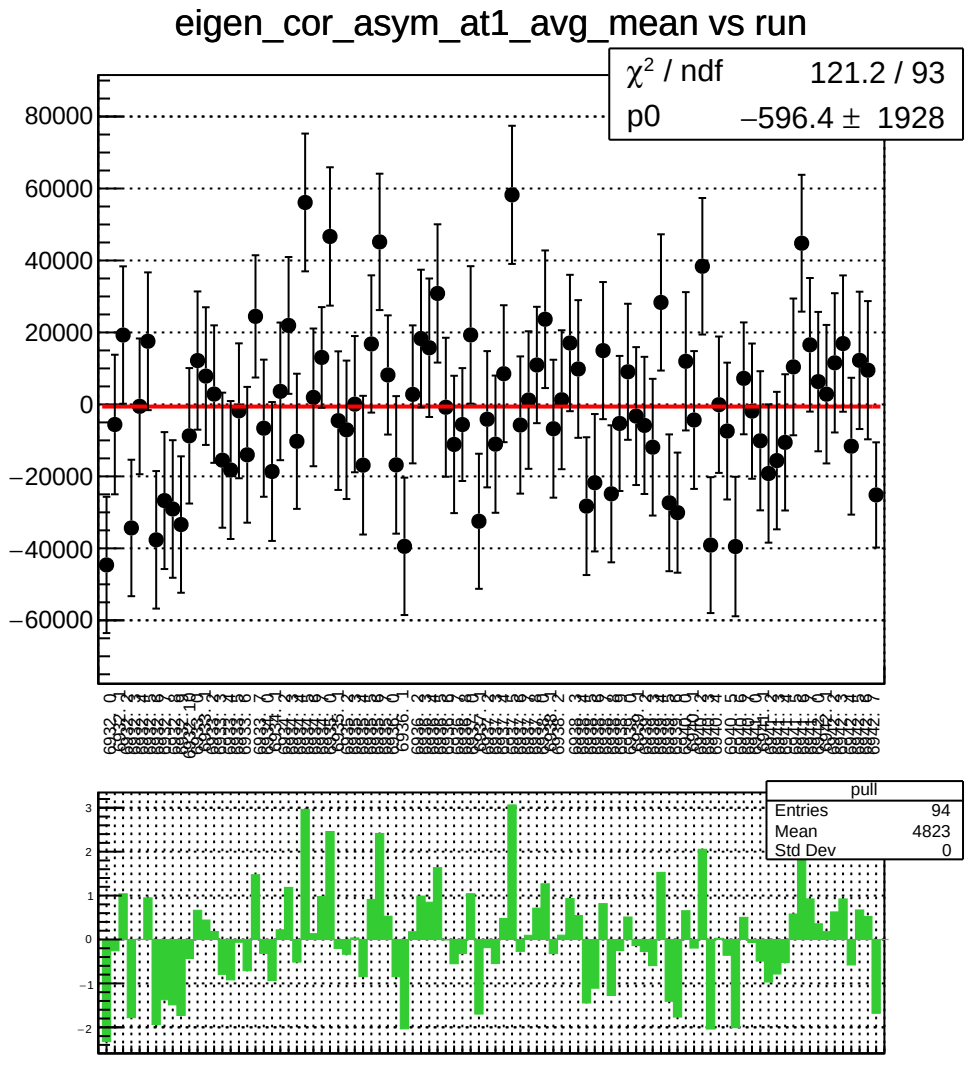

pull1D
Entries 94
Mean 0.0004635
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

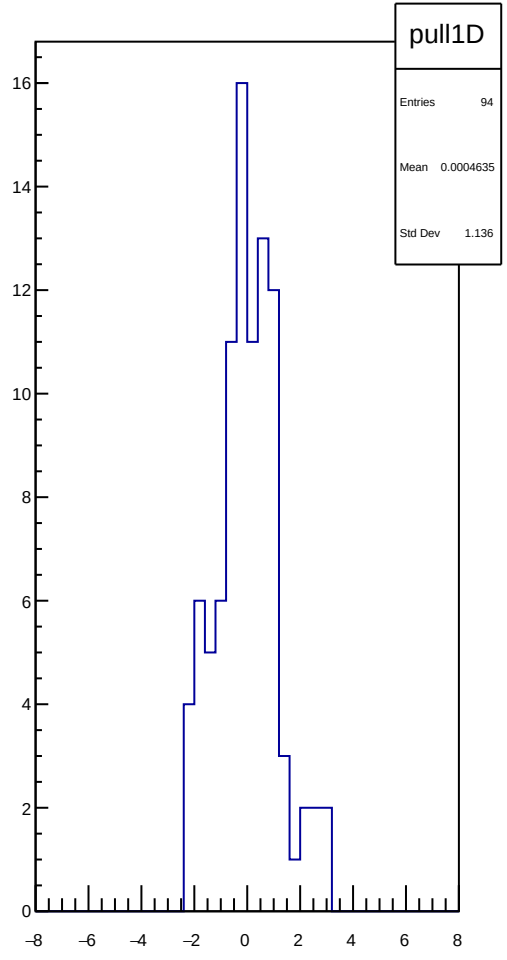

cor_asym_at1_avg_rms vs run
χ² / ndf 107.2 / 93
p0 1811 ± 1.363
1860
1840
1820
1800
1780
1760

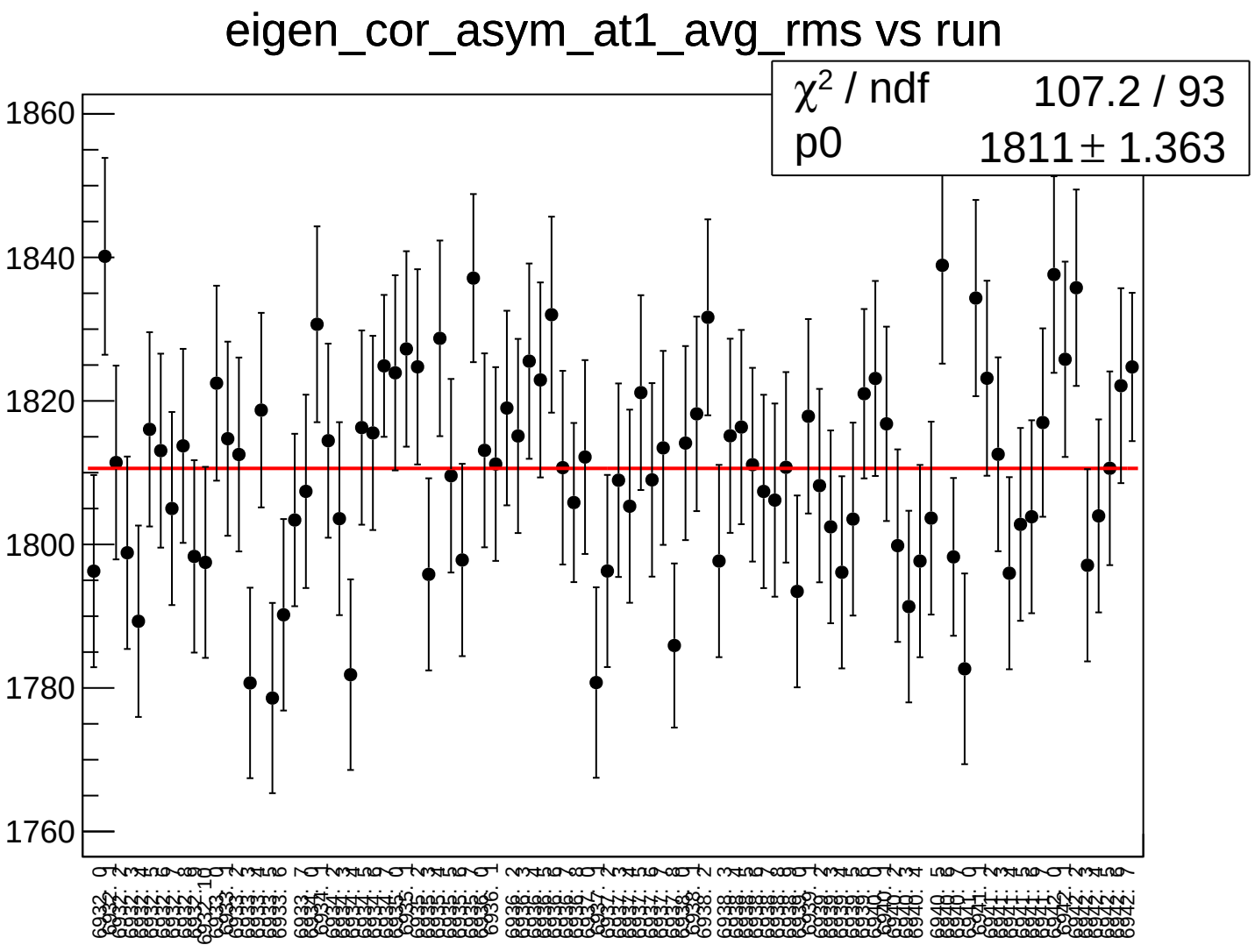

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 921.6 ± 860.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 442.1
Std Dev 0
2
1
0
−1
−2

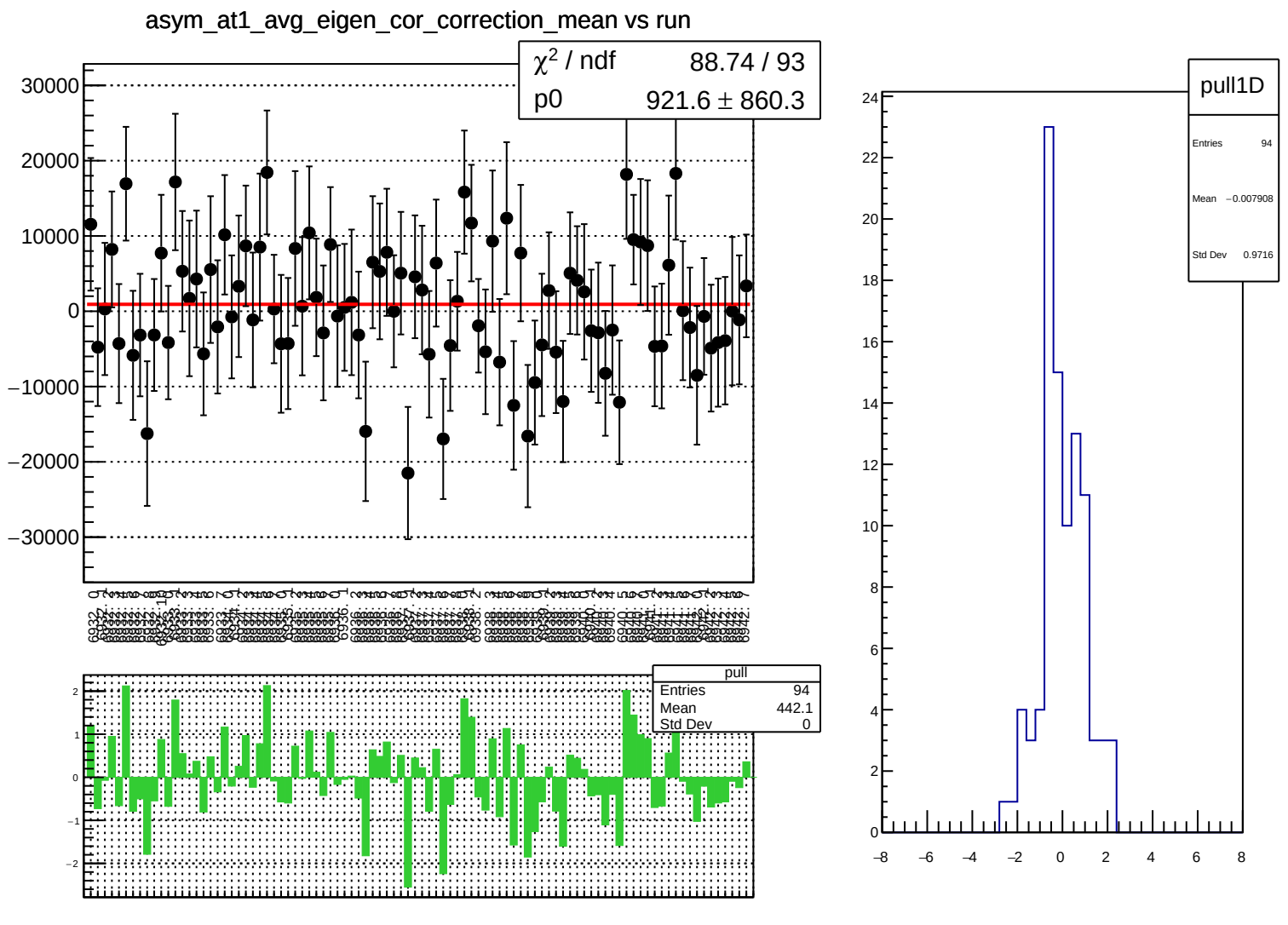

pull1D
Entries 94
Mean −0.007908
Std Dev 0.9716
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

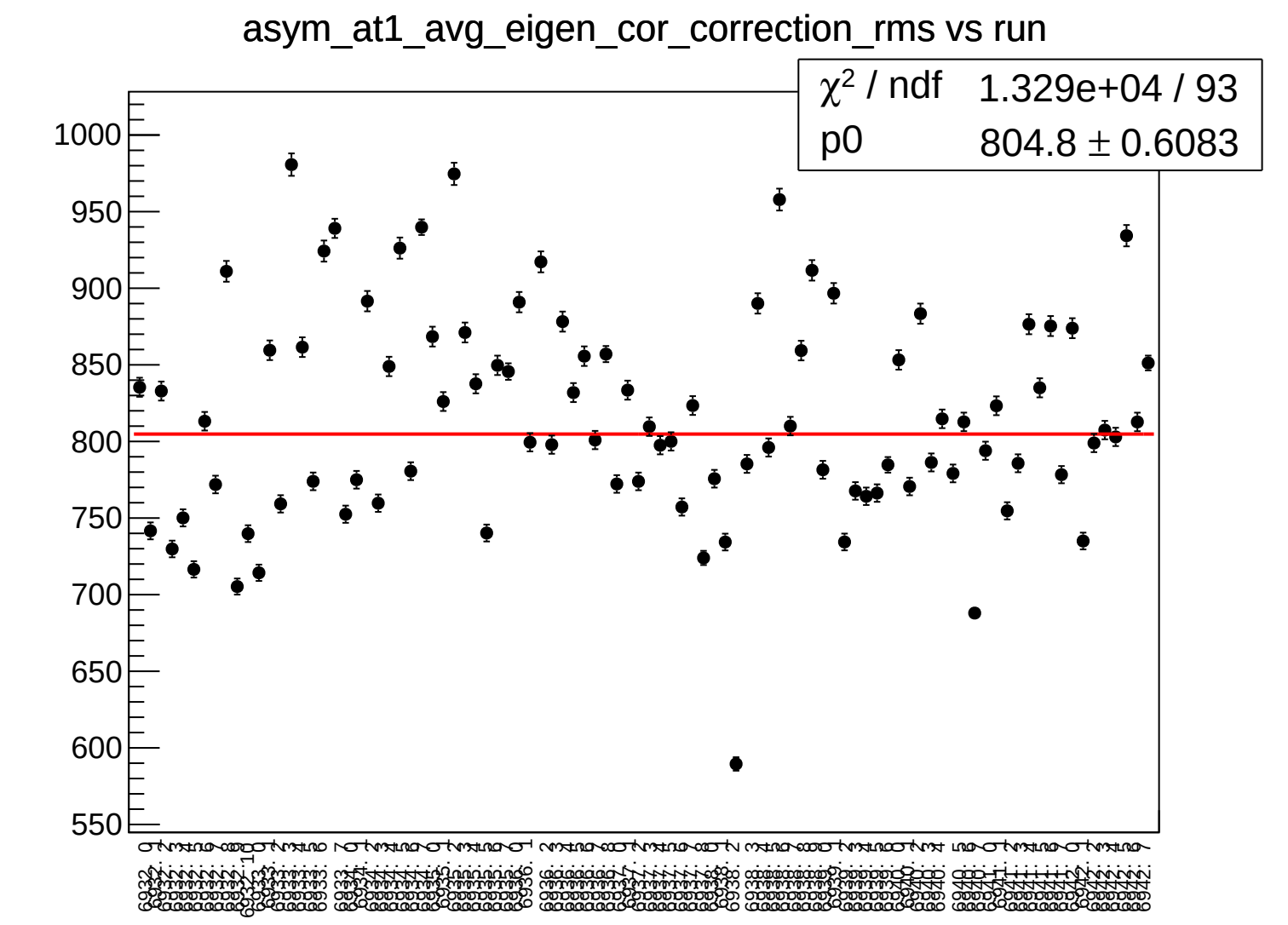

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.329e+04 / 93
p0 804.8 ± 0.6083
1000
950
900
850
800
750
700
650
600
550

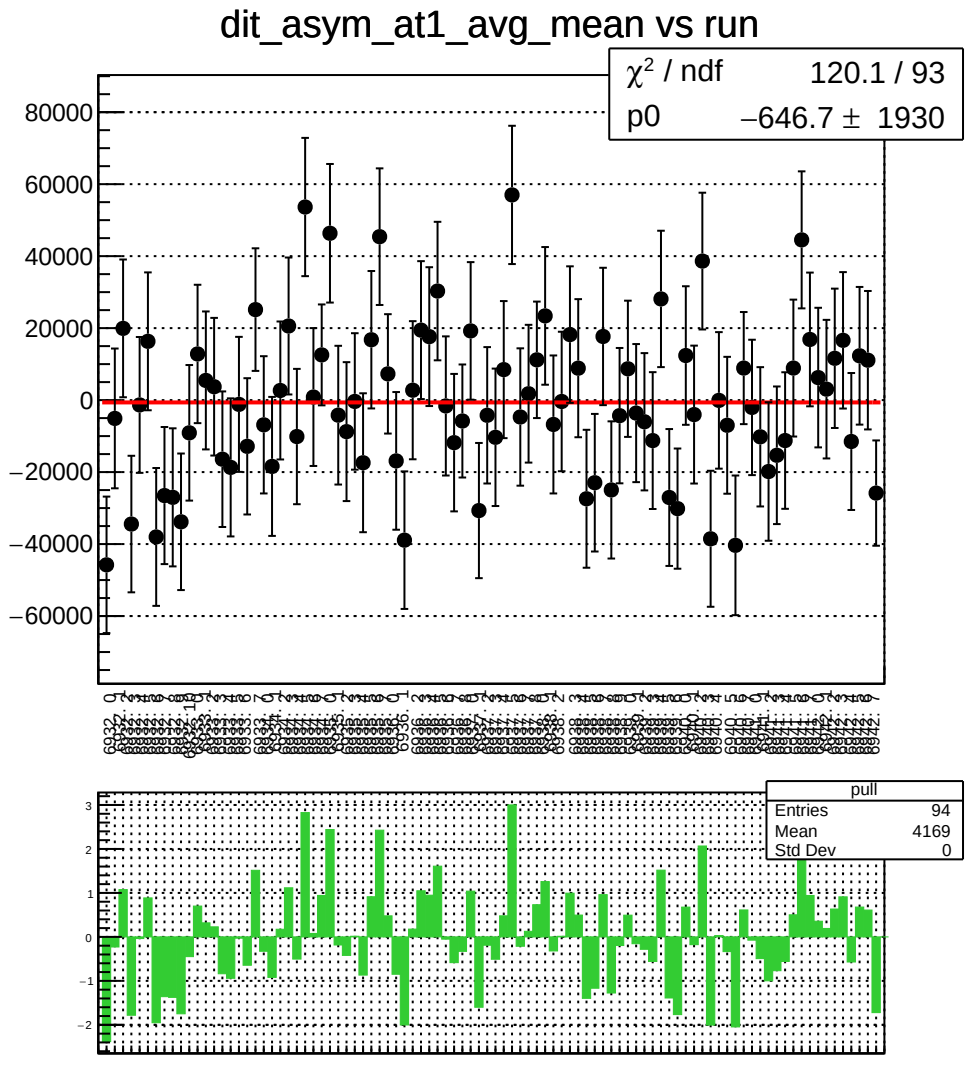

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 121.2 / 93
p0 −596.4 ± 1928
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4823
Std Dev 0
3
2
1
0
−1
−2

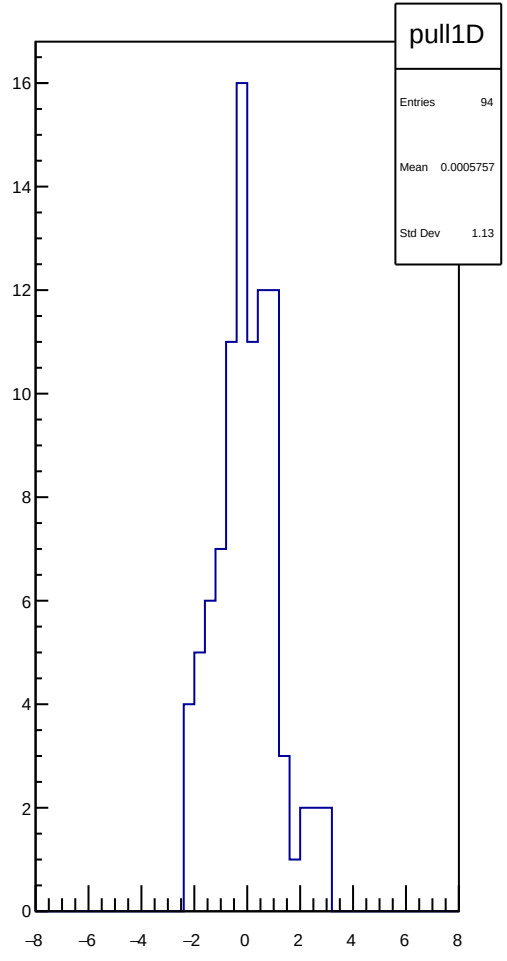

pull1D
Entries 94
Mean 0.0004635
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

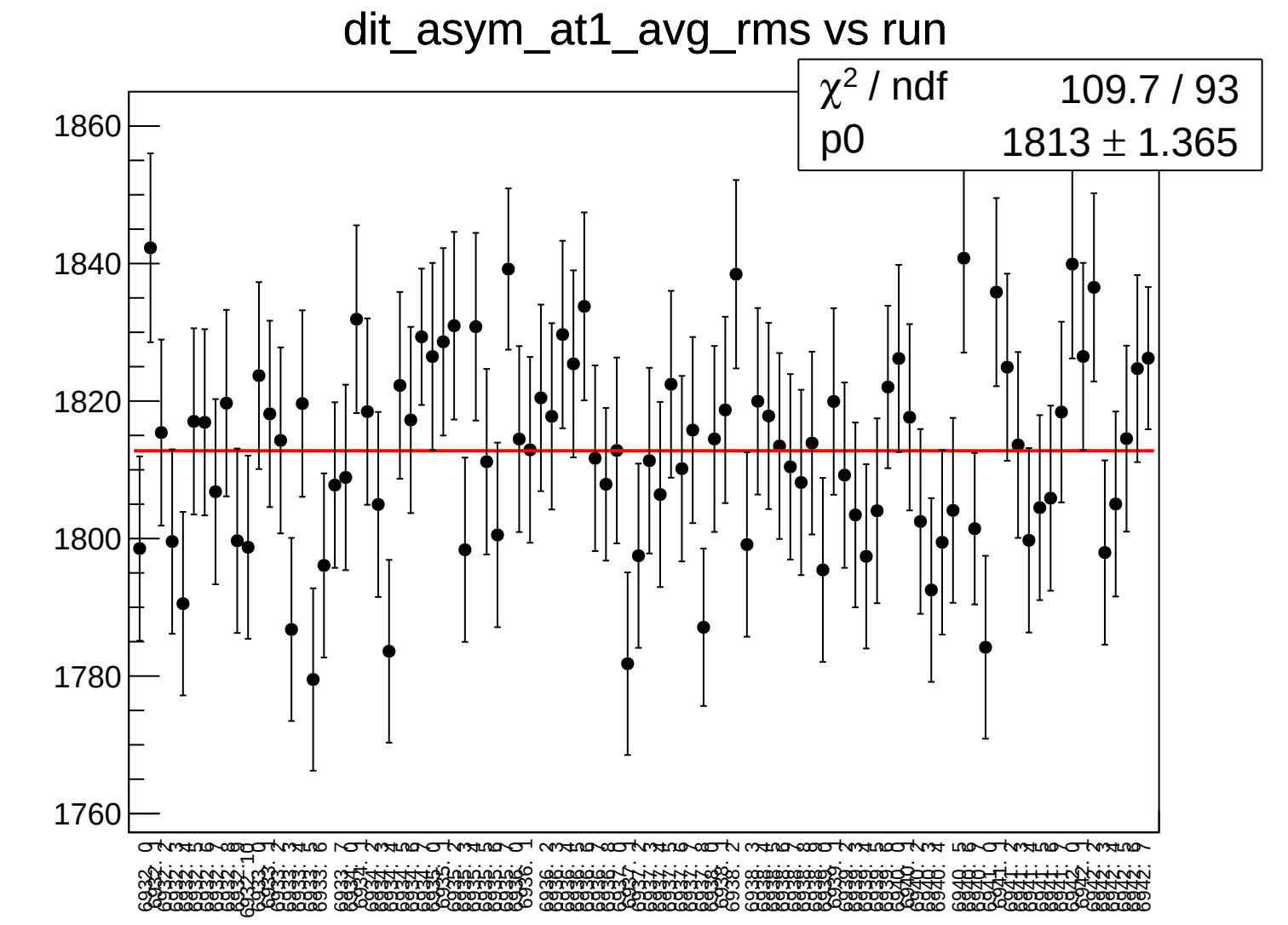

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 107.2 / 93
p0 1811 ± 1.363
1860
1840
1820
1800
1780
1760

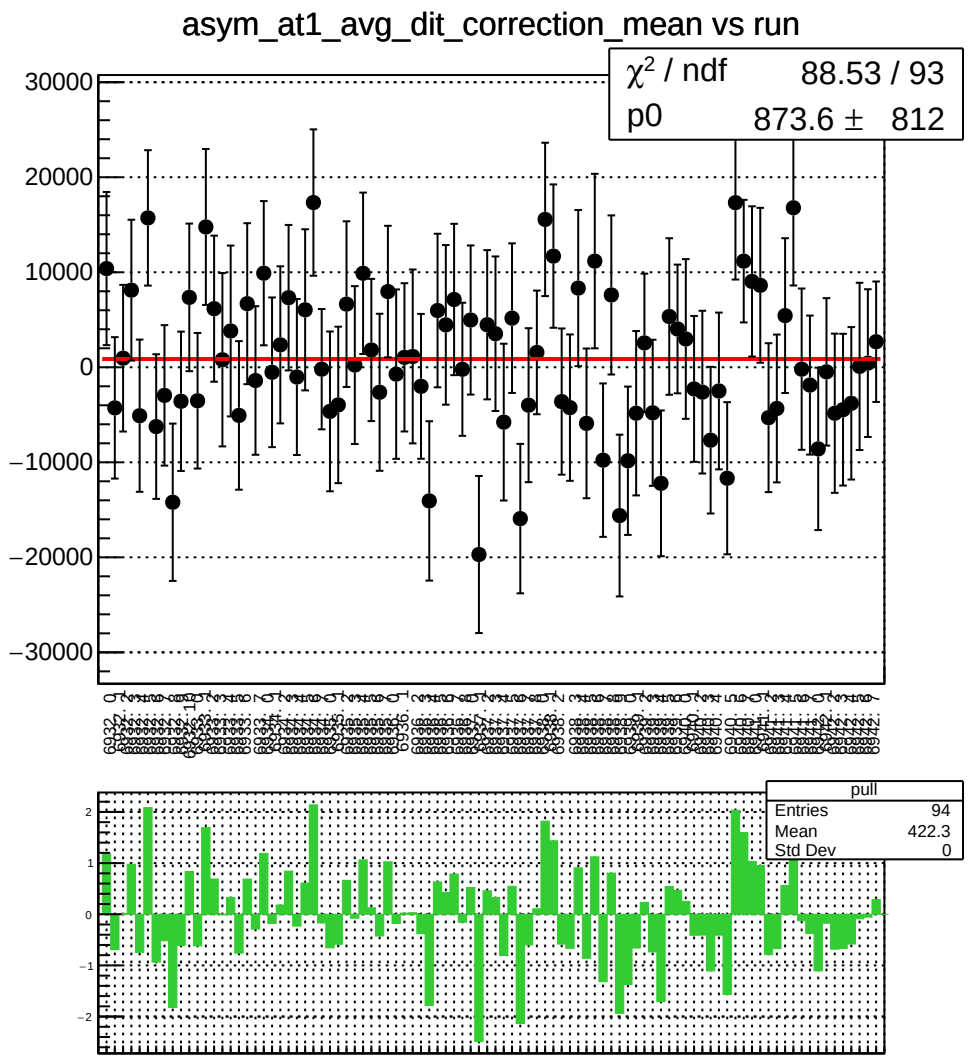

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 921.6 ± 860.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 442.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007908
Std Dev 0.9716
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

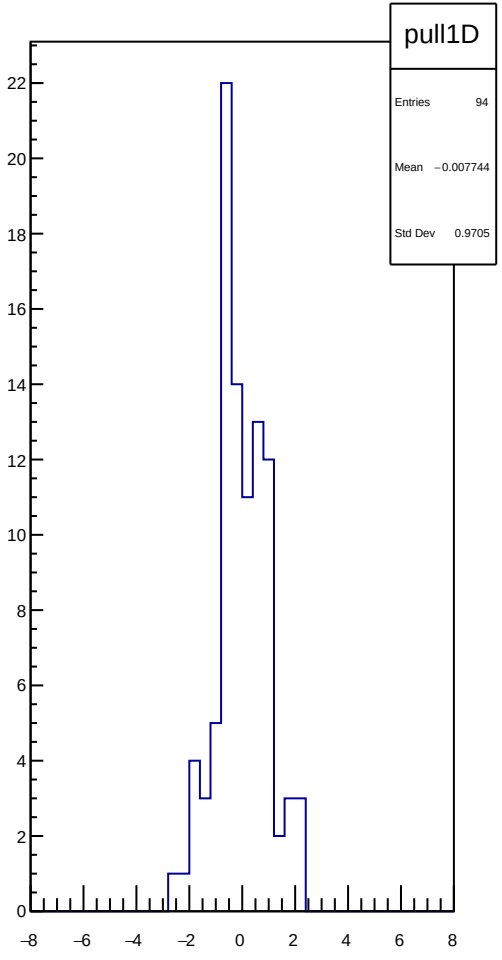

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.329e+04 / 93
p0 804.8 ± 0.6083
1000
950
900
850
800
750
700
650
600
550

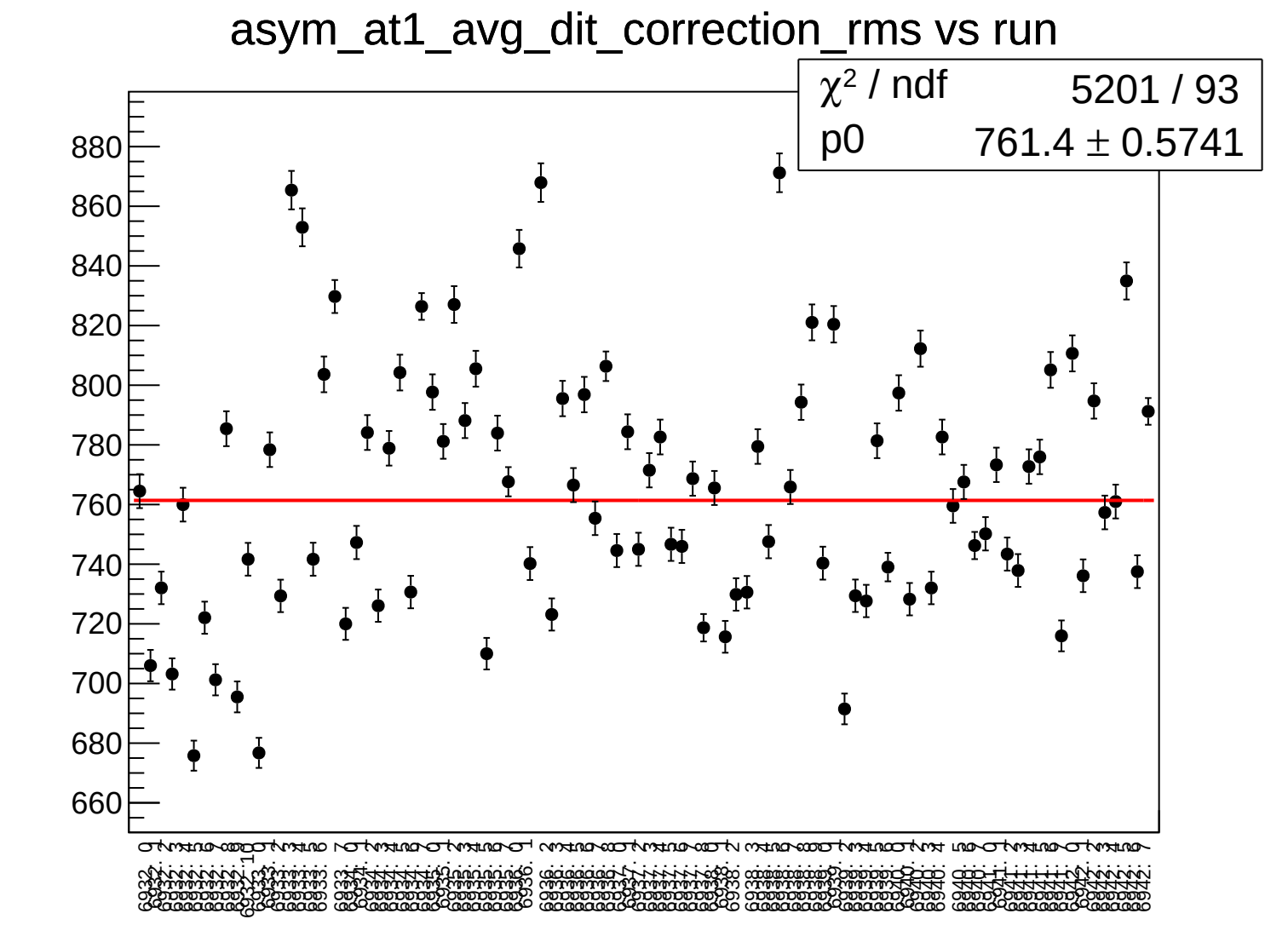

dit_asym_at1_avg_mean vs run
χ² / ndf 120.1 / 93
p0 −646.7 ± 1930
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4169
Std Dev 0
3
2
1
0
−1
−2

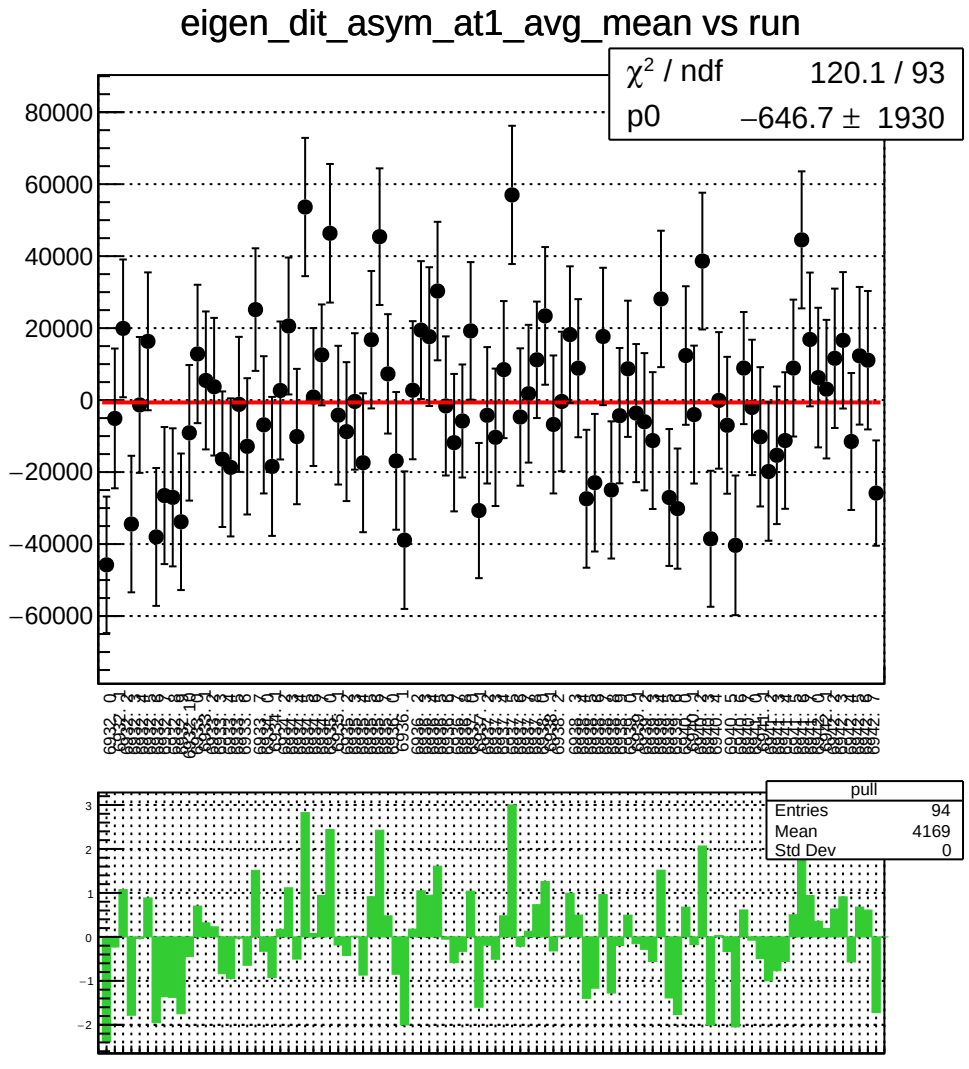

pull1D
Entries 94
Mean 0.0005757
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

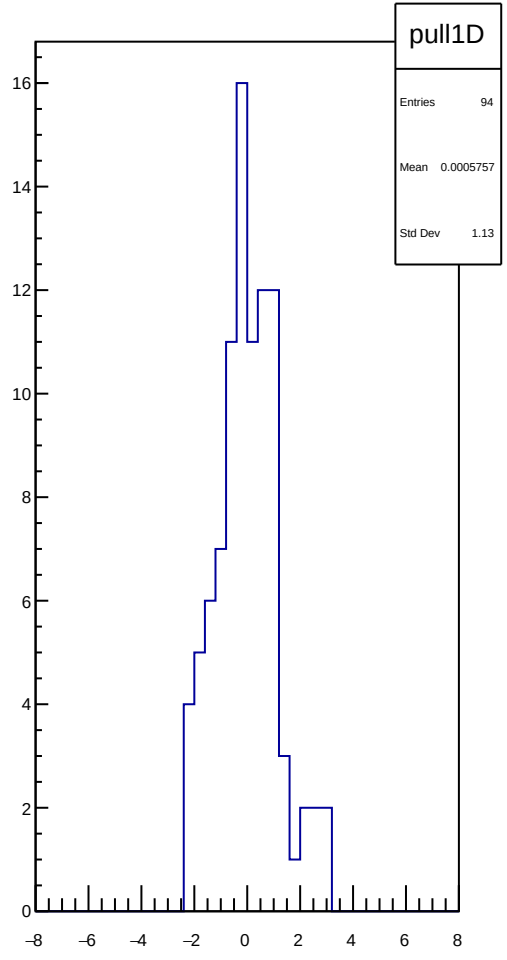

dit_asym_at1_avg_rms vs run
χ² / ndf 109.7 / 93
p0 1813 ± 1.365
1860
1840
1820
1800
1780
1760

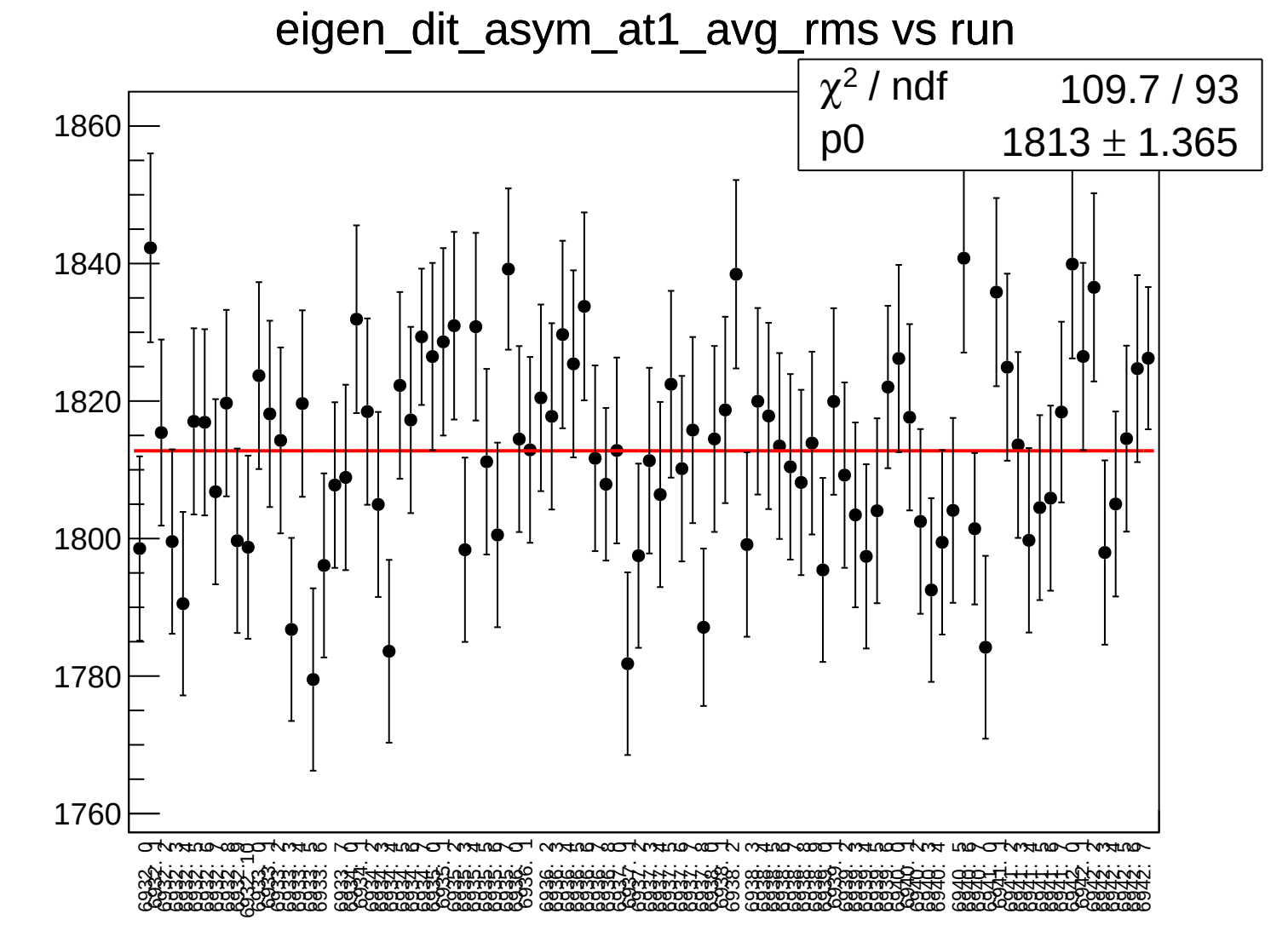

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 88.53 / 93
p0 873.6 ± 812
pull
Entries 94
Mean 422.3
Std Dev 0

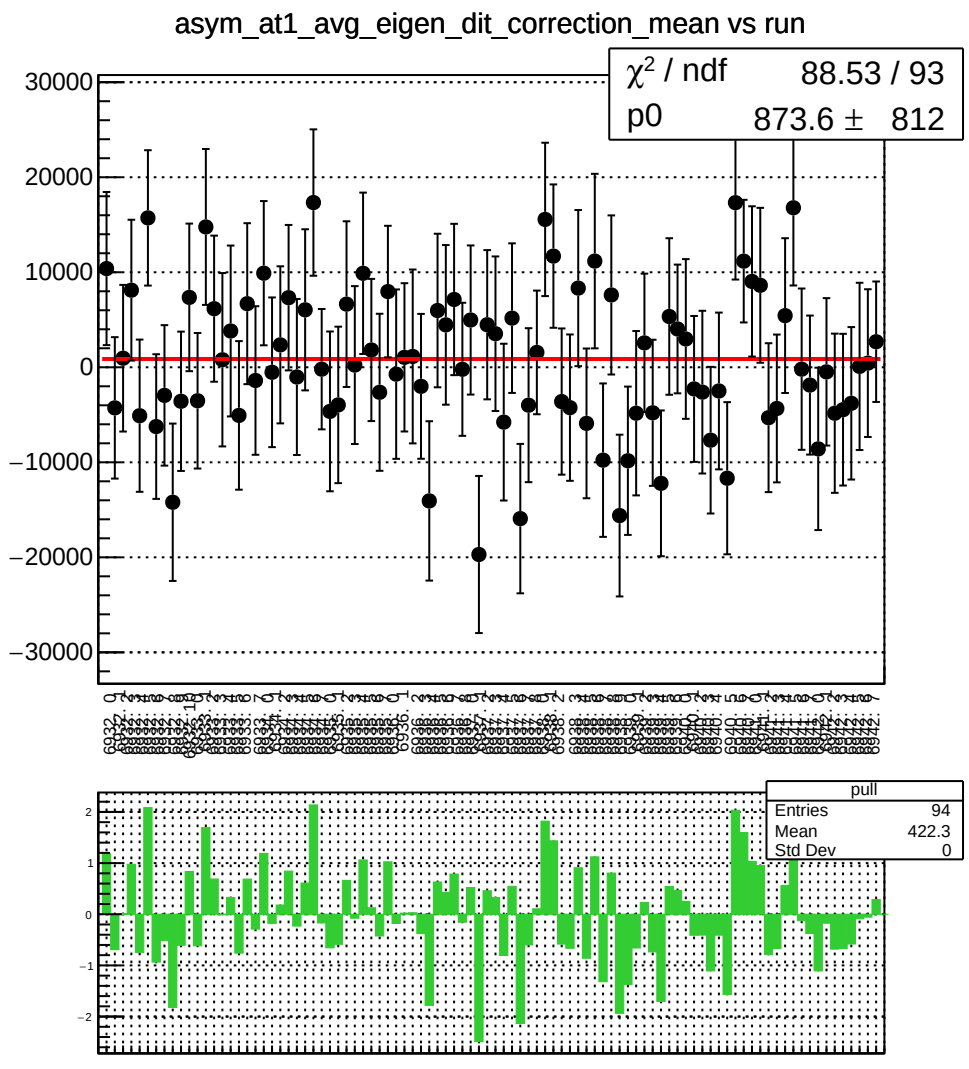

pull1D
Entries 94
Mean −0.007744
Std Dev 0.9705

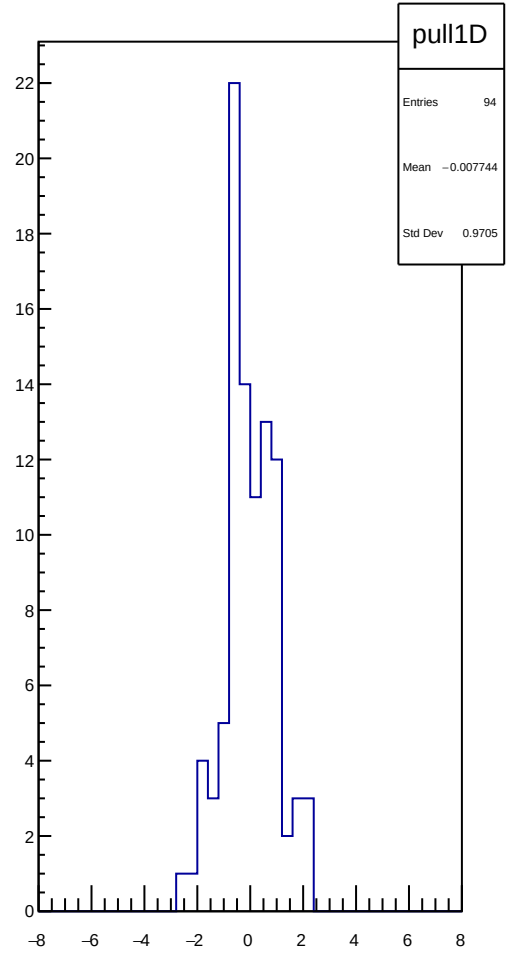

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 5201 / 93
p0 761.4 ± 0.5741
880
860
840
820
800
780
760
740
720
700
680
660

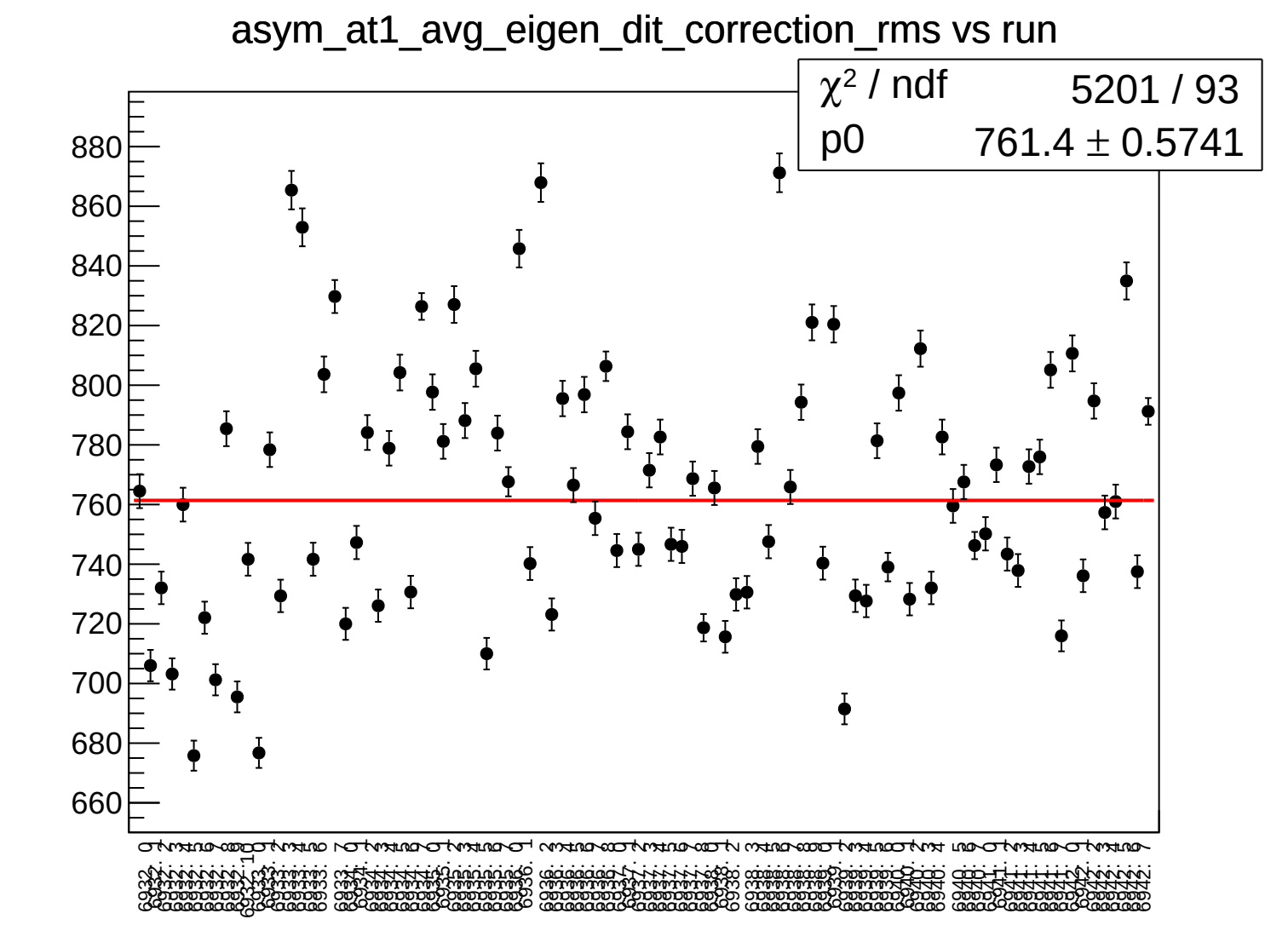

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 120.1 / 93
p0 −646.7 ± 1930
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 4169
Std Dev 0
3
2
1
0
−1
−2

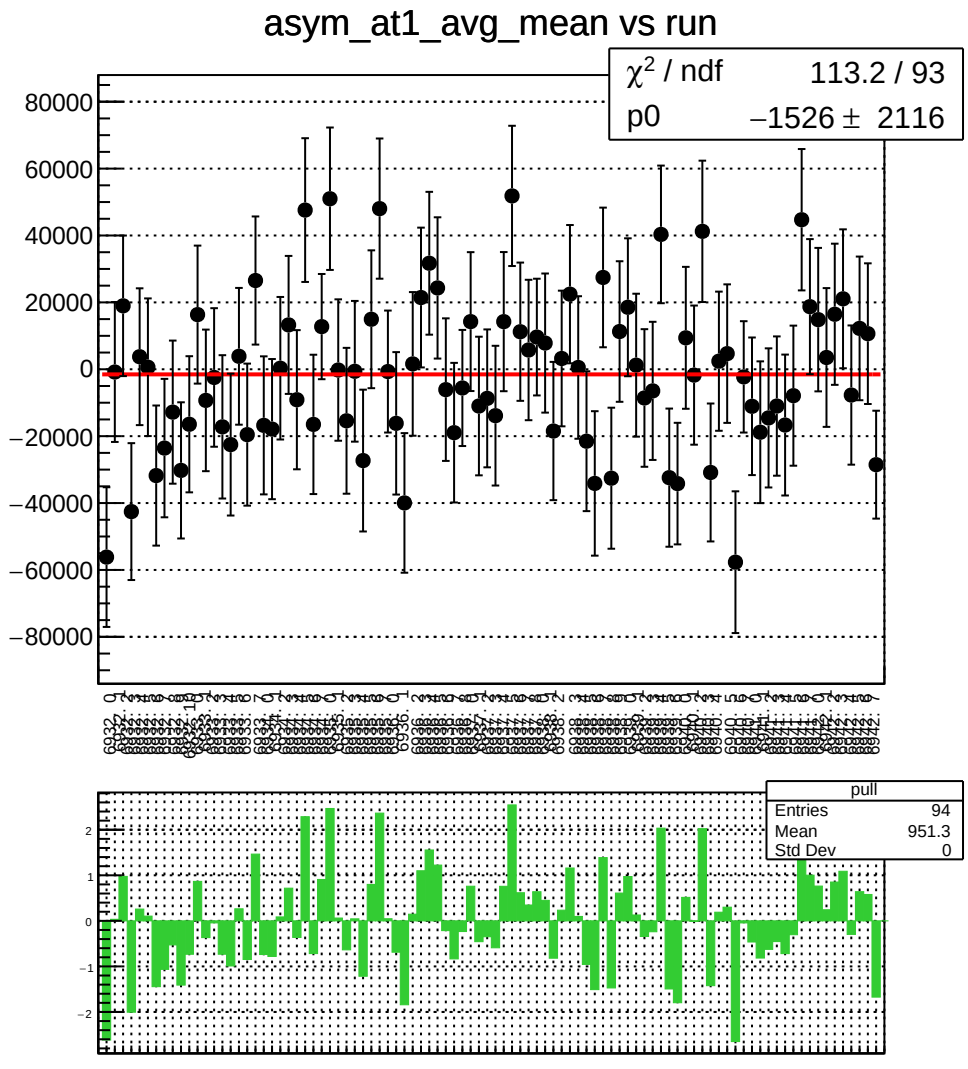

pull1D
Entries 94
Mean 0.0005757
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

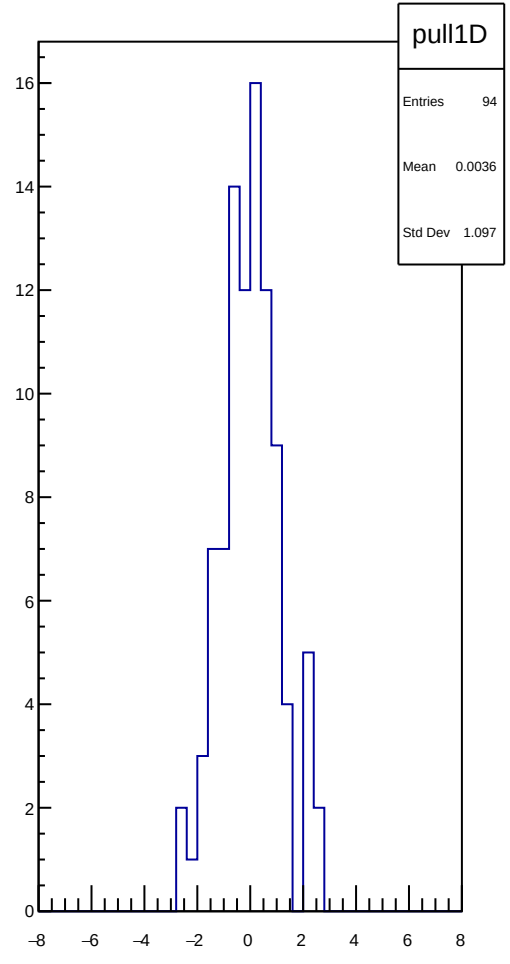

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 109.7 / 93
p0 1813 ± 1.365
1860
1840
1820
1800
1780
1760

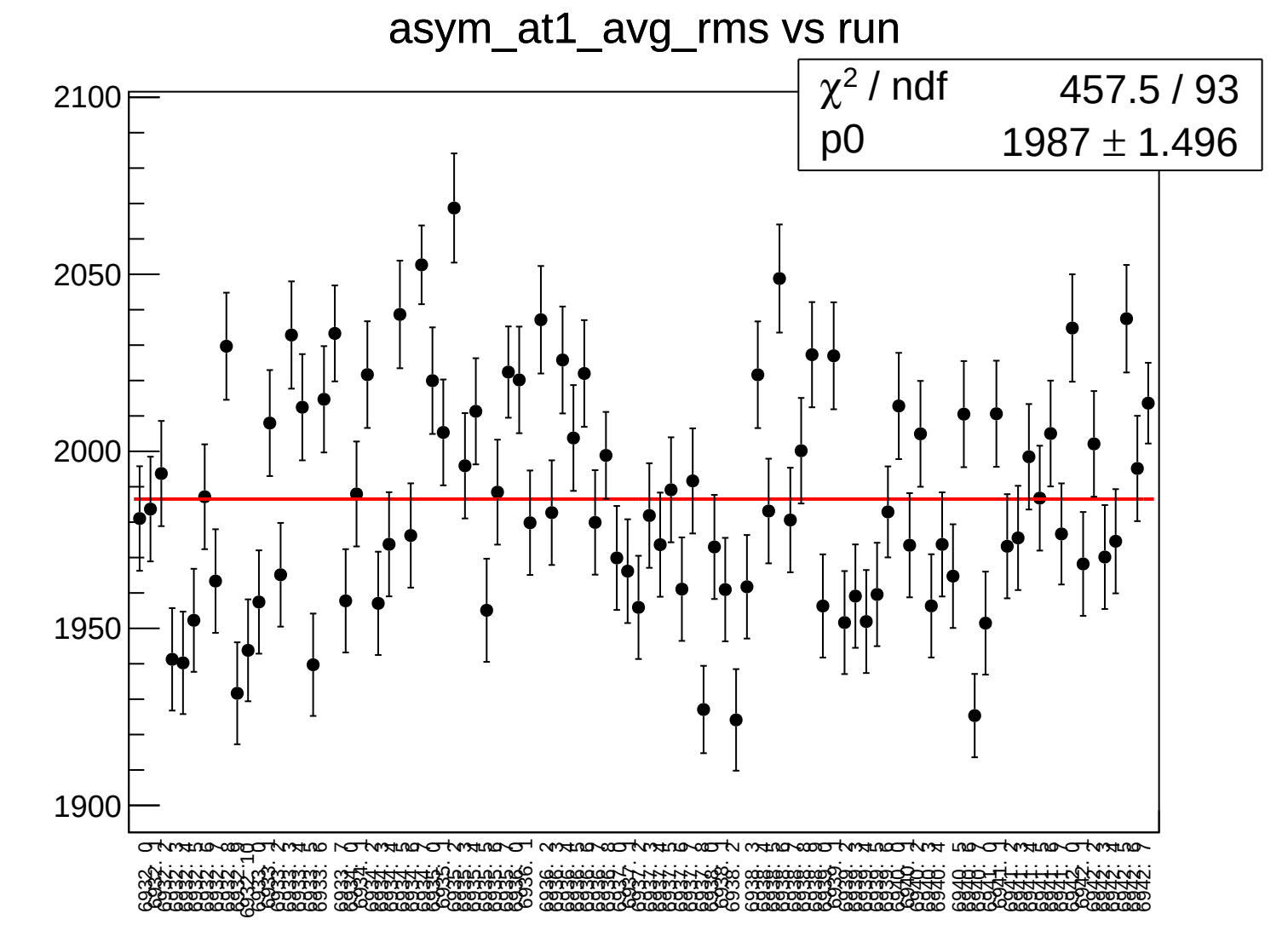

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.53 / 93
p0 873.6 ± 812
pull
Entries 94
Mean 422.3
Std Dev 0

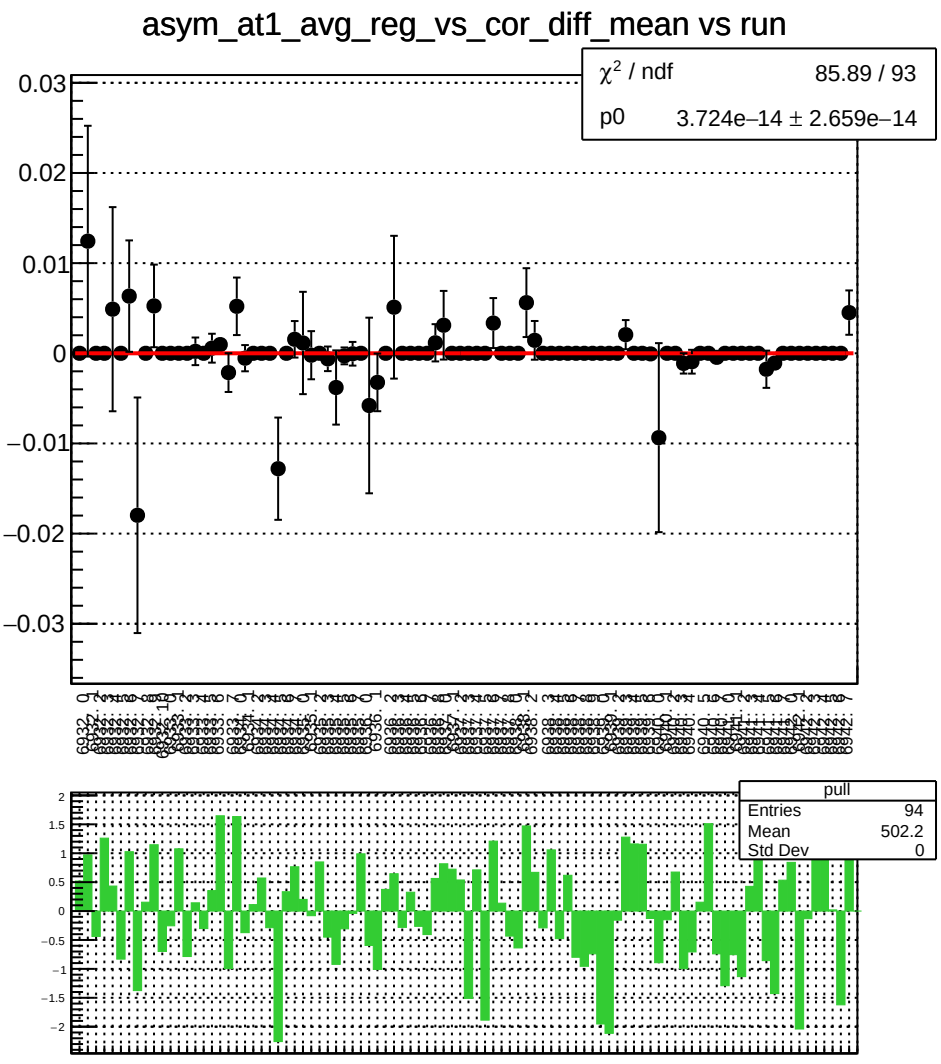

pull1D
Entries 94
Mean −0.007744
Std Dev 0.9705

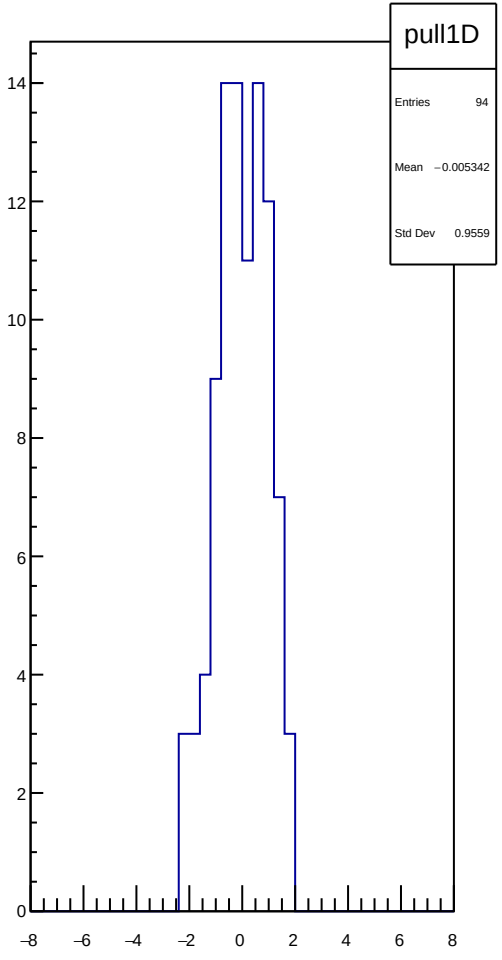

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5201 / 93
p0 761.4 ± 0.5741
880
860
840
820
800
780
760
740
720
700
680
660

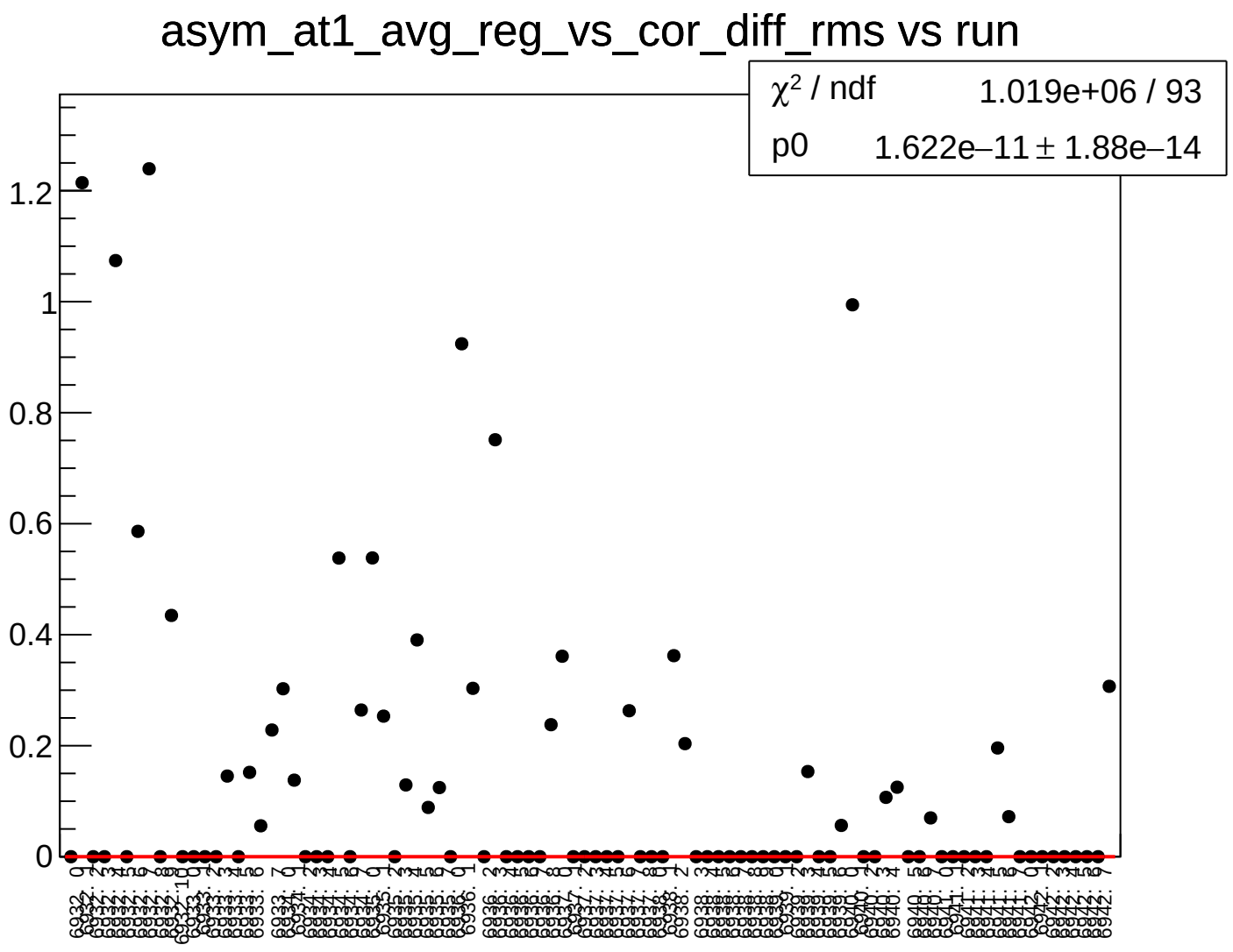

asym_at1_avg_mean vs run
χ² / ndf 113.2 / 93
p0 −1526 ± 2116
pull
Entries 94
Mean 951.3
Std Dev 0

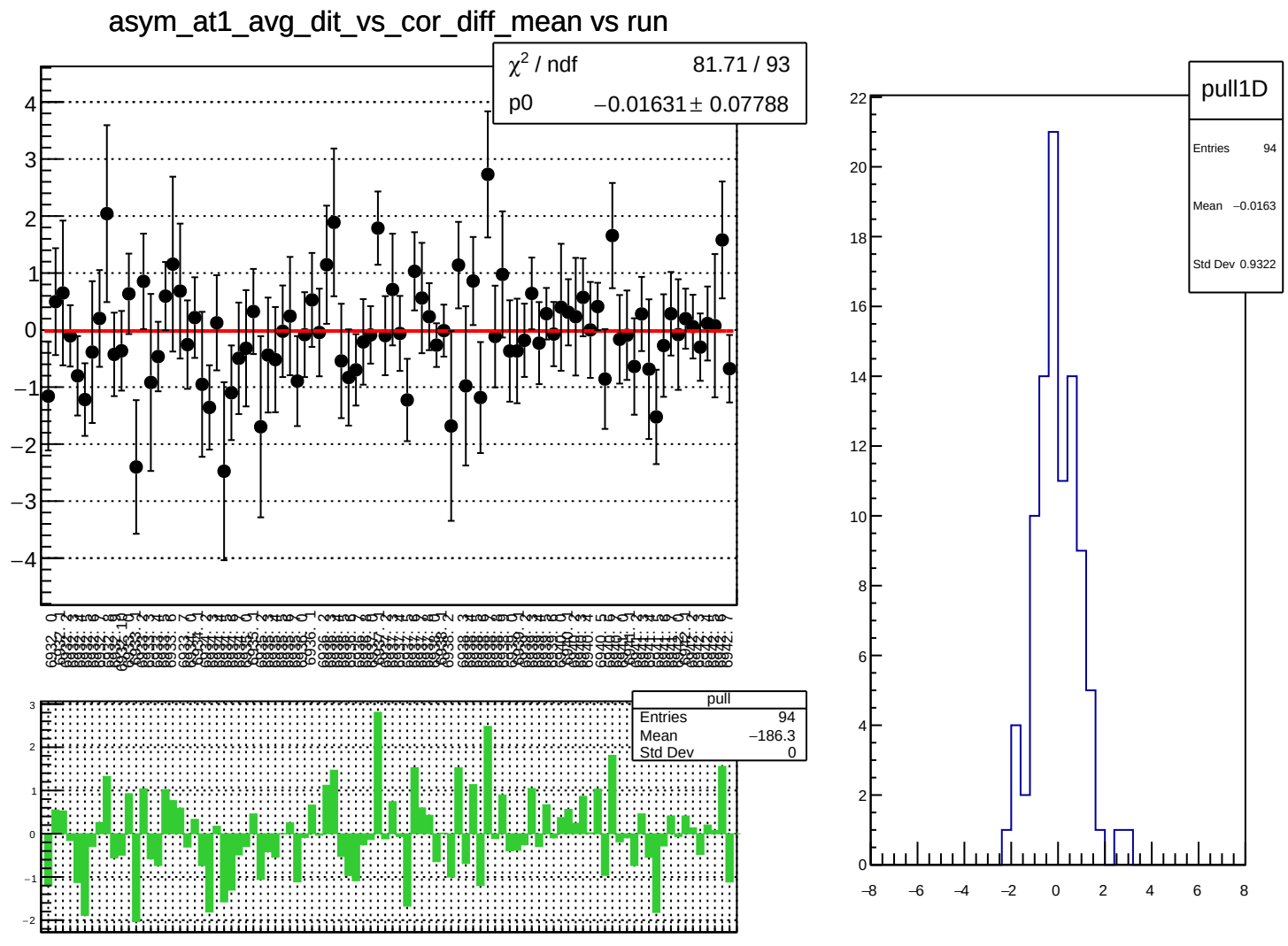

pull1D
Entries 94
Mean 0.0036
Std Dev 1.097

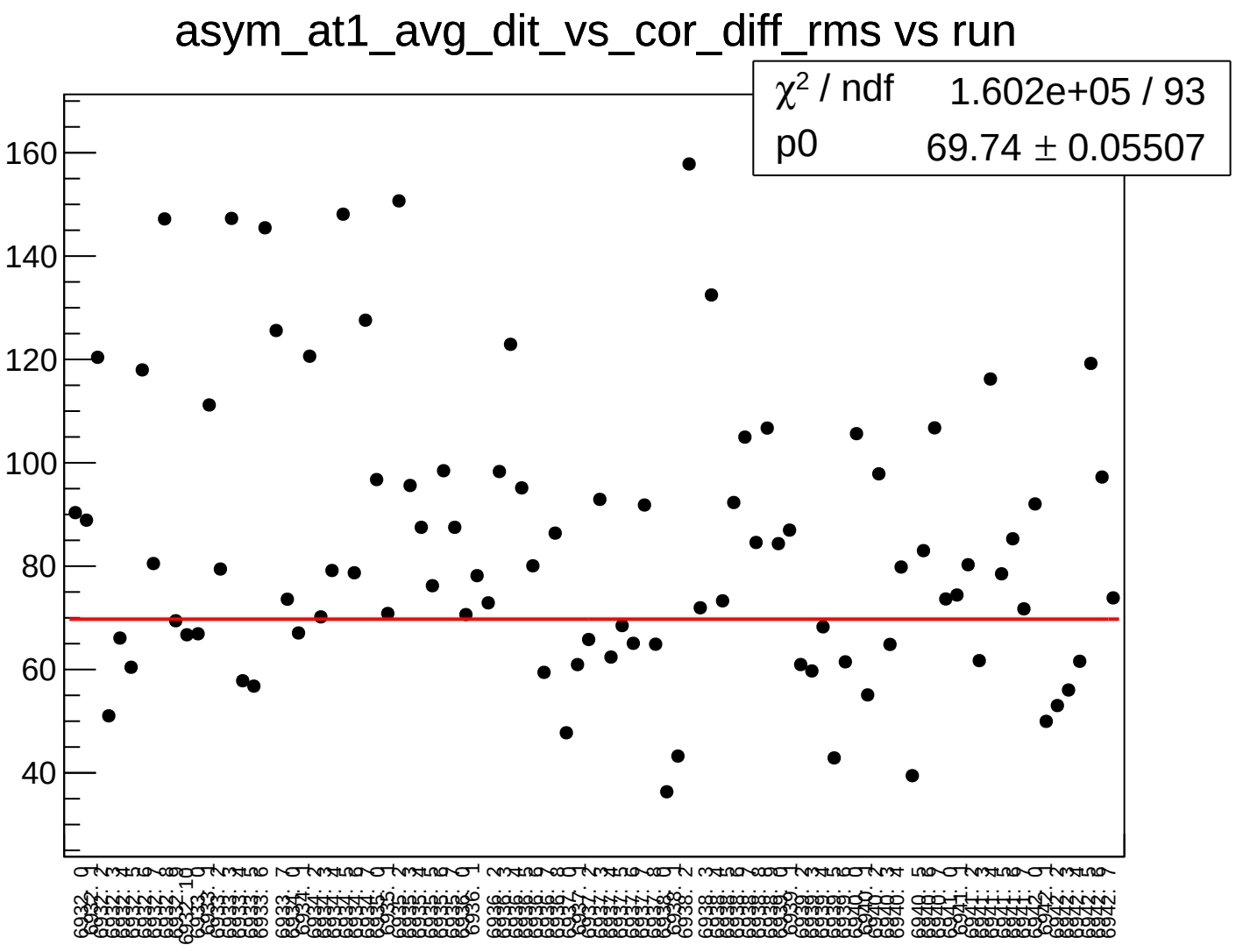

asym_at1_avg_rms vs run
χ² / ndf 457.5 / 93
p0 1987 ± 1.496
2100
2050
2000
1950
1900

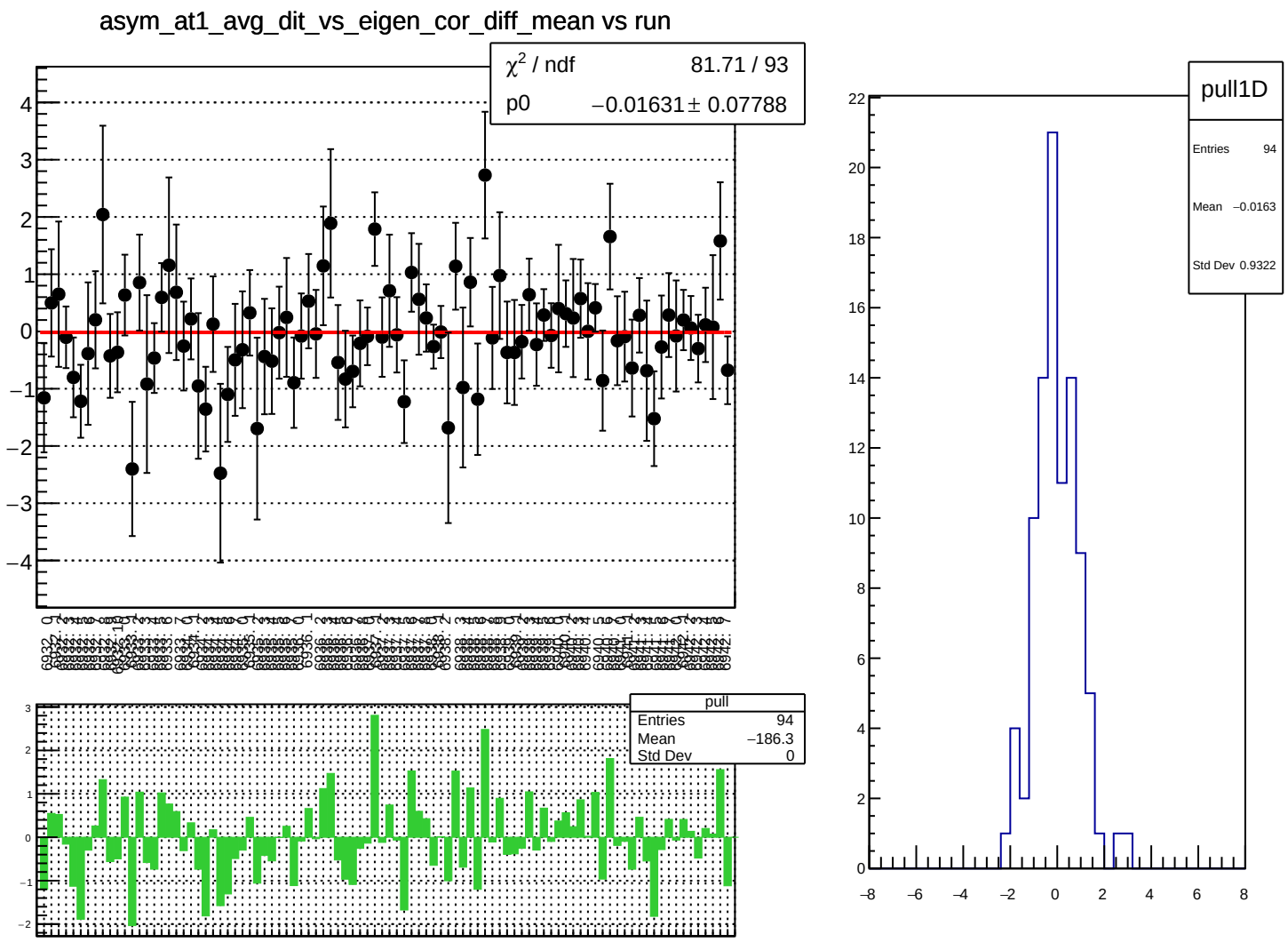

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 93
p0 3.724e−14 ± 2.659e−14
pull
Entries 94
Mean 502.2
Std Dev 0

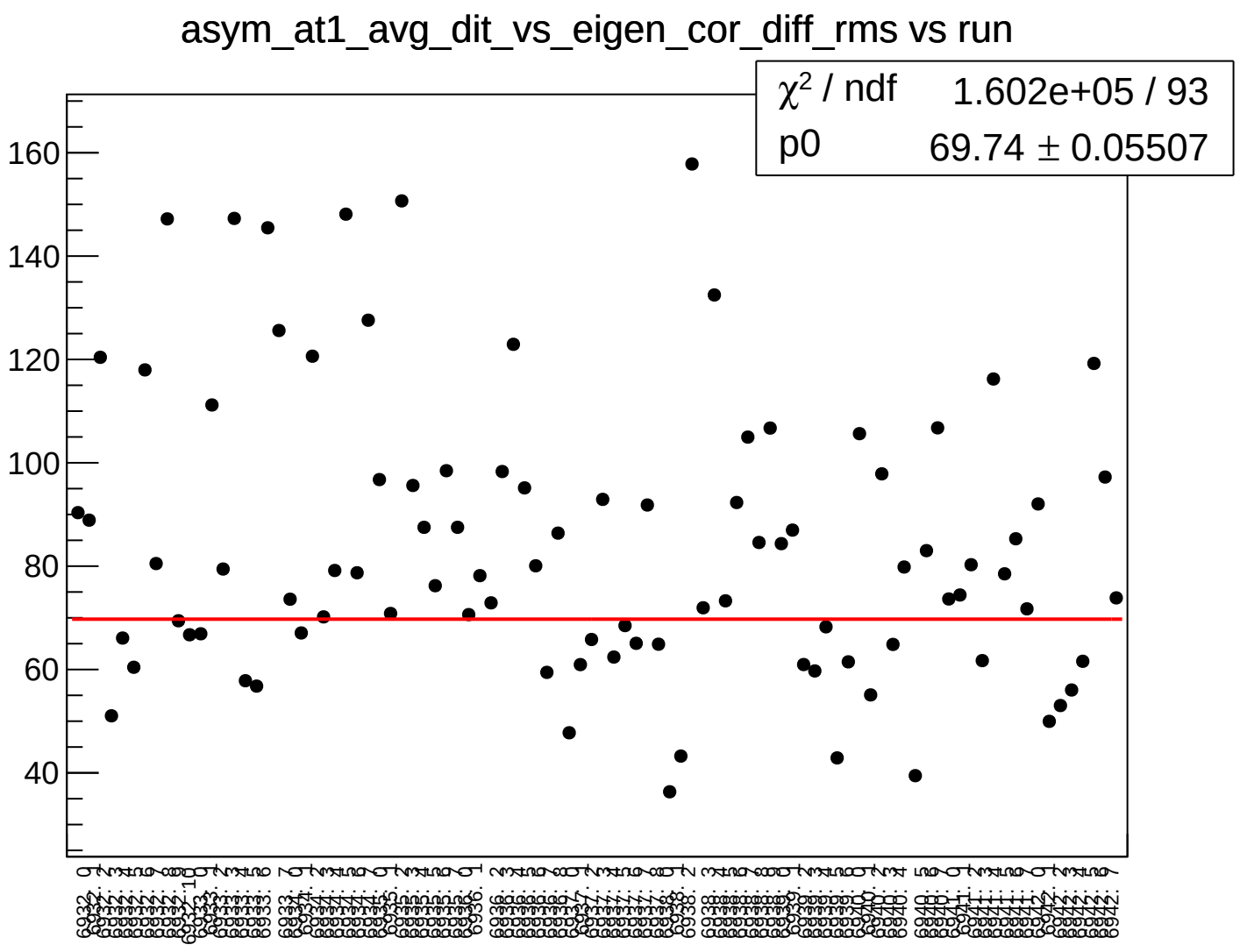

pull1D
Entries 94
Mean −0.005342
Std Dev 0.9559

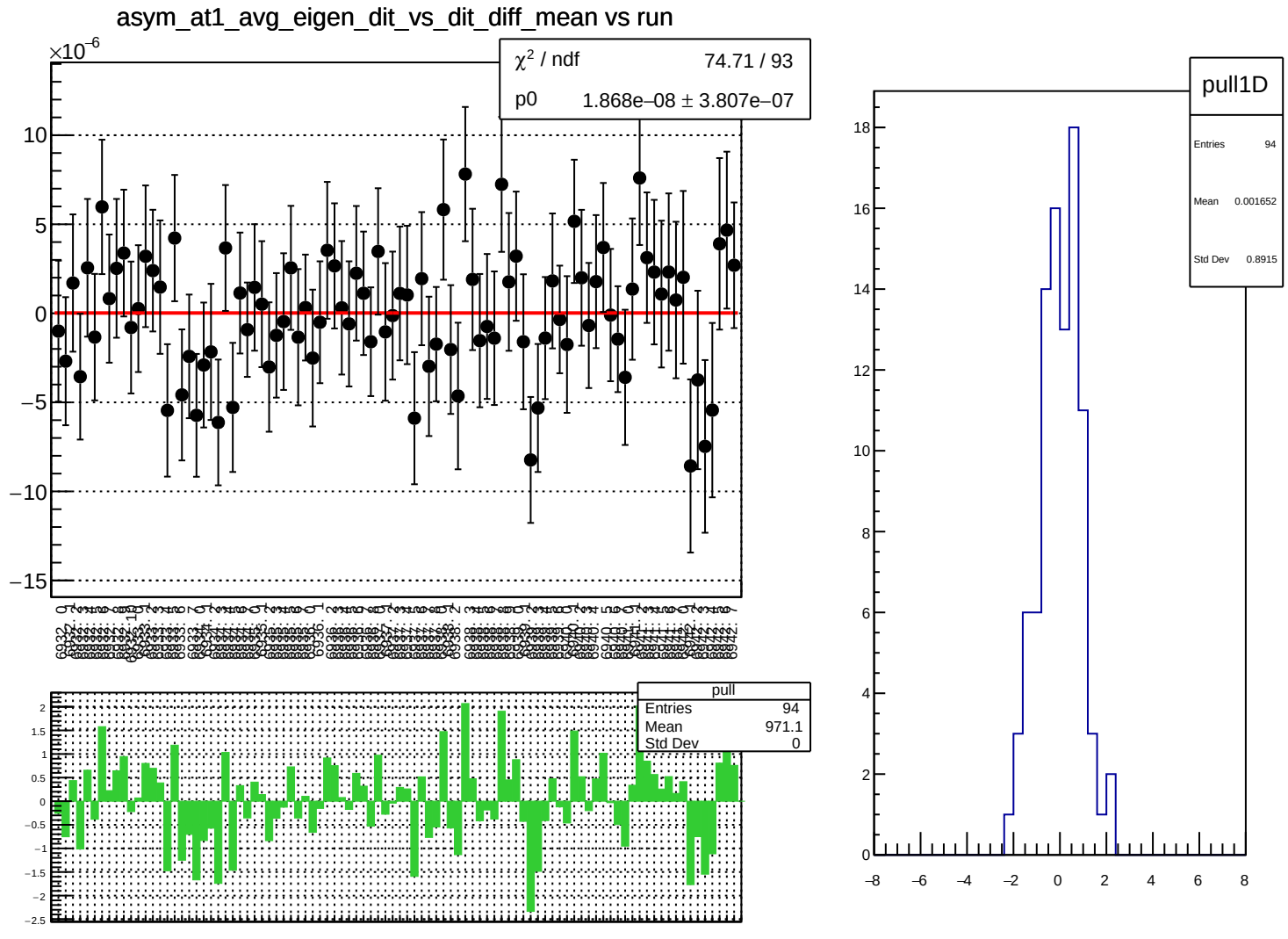

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.019e+06 / 93
p0 1.622e−11 ± 1.88e−14
1.2
1
0.8
0.6
0.4
0.2
0

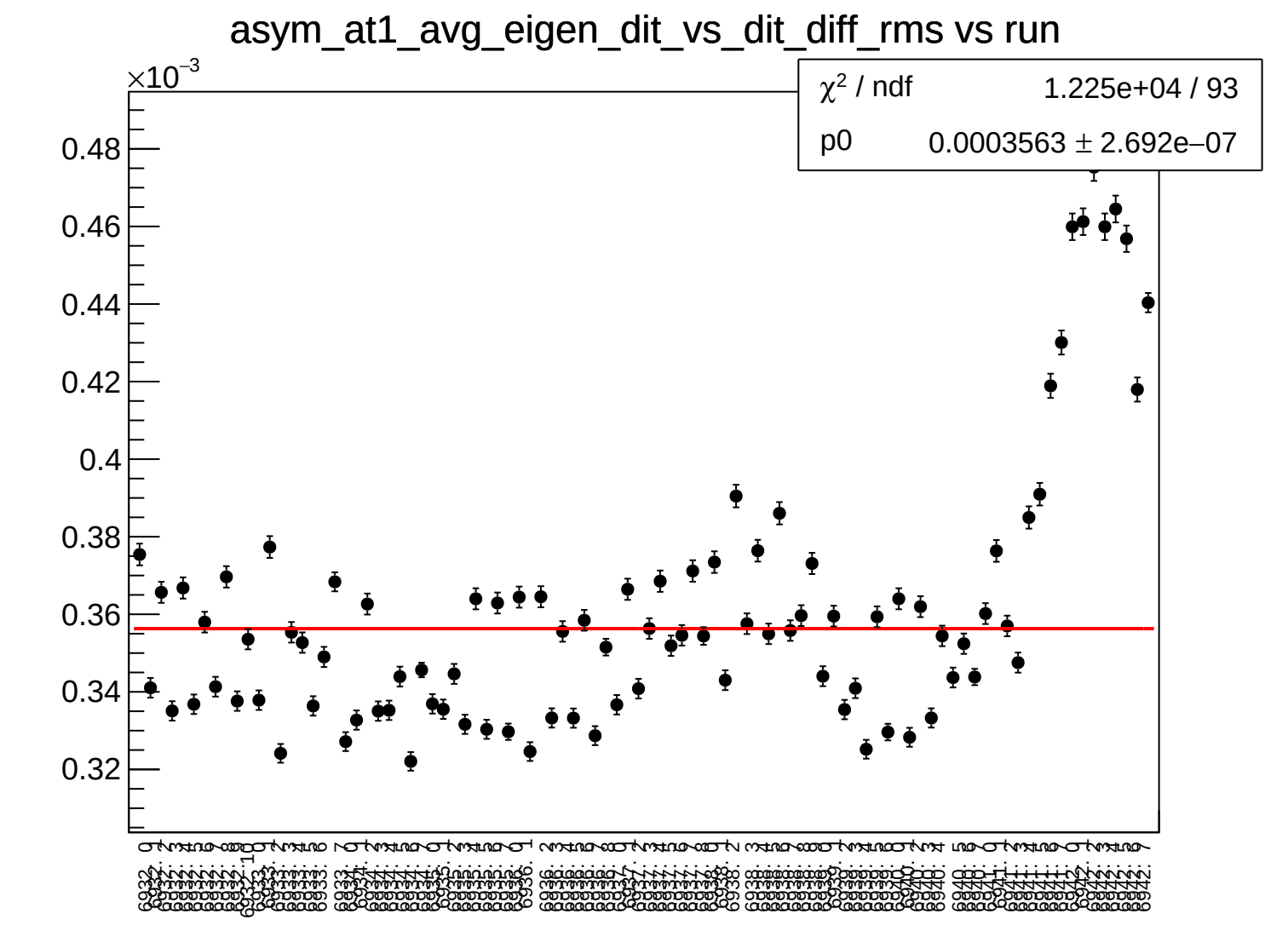

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.71 / 93
p0 −0.01631 ± 0.07788
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean −0.0163
Std Dev 0.9322

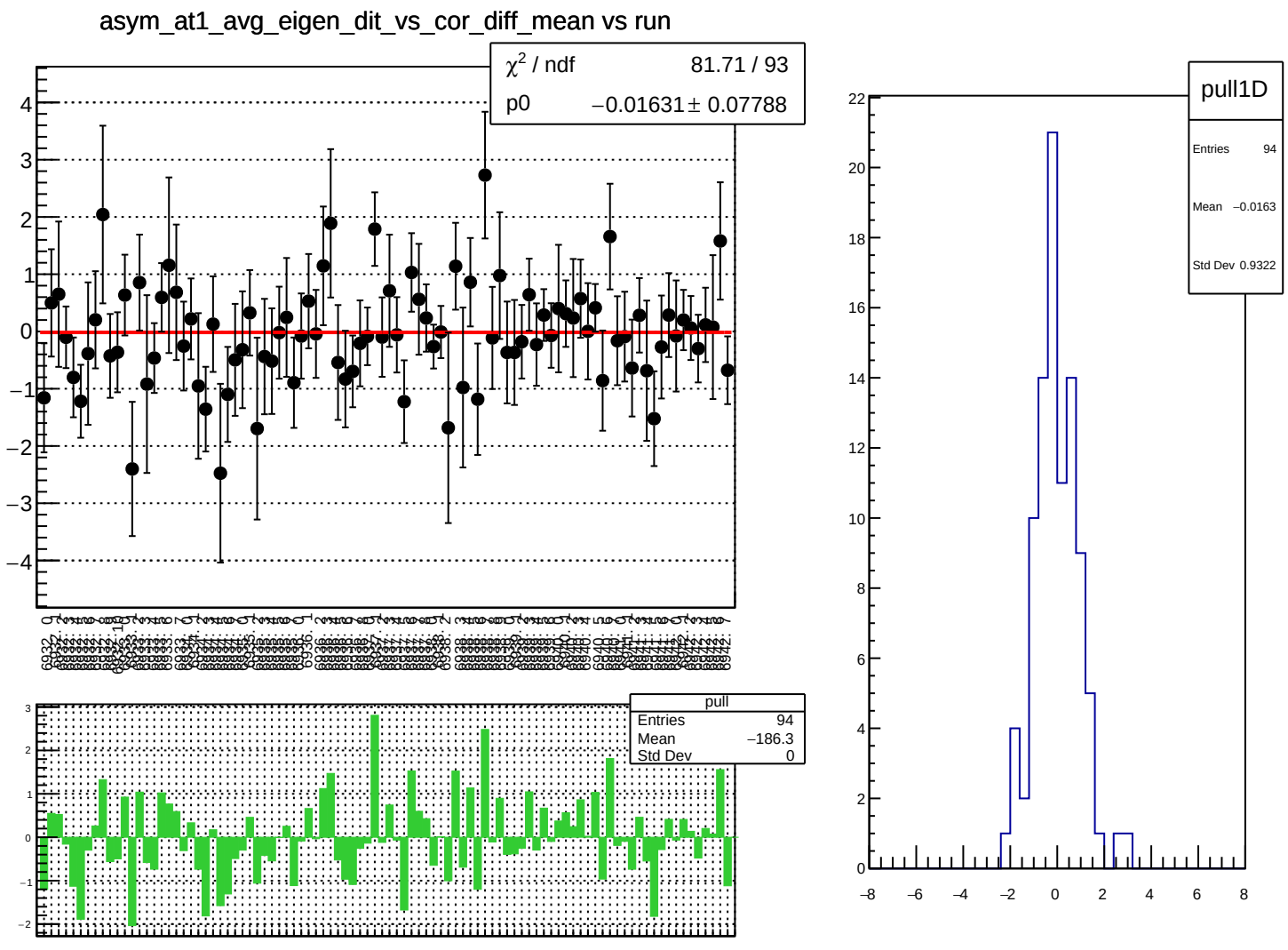

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 93
p0 69.74 ± 0.05507
160
140
120
100
80
60
40

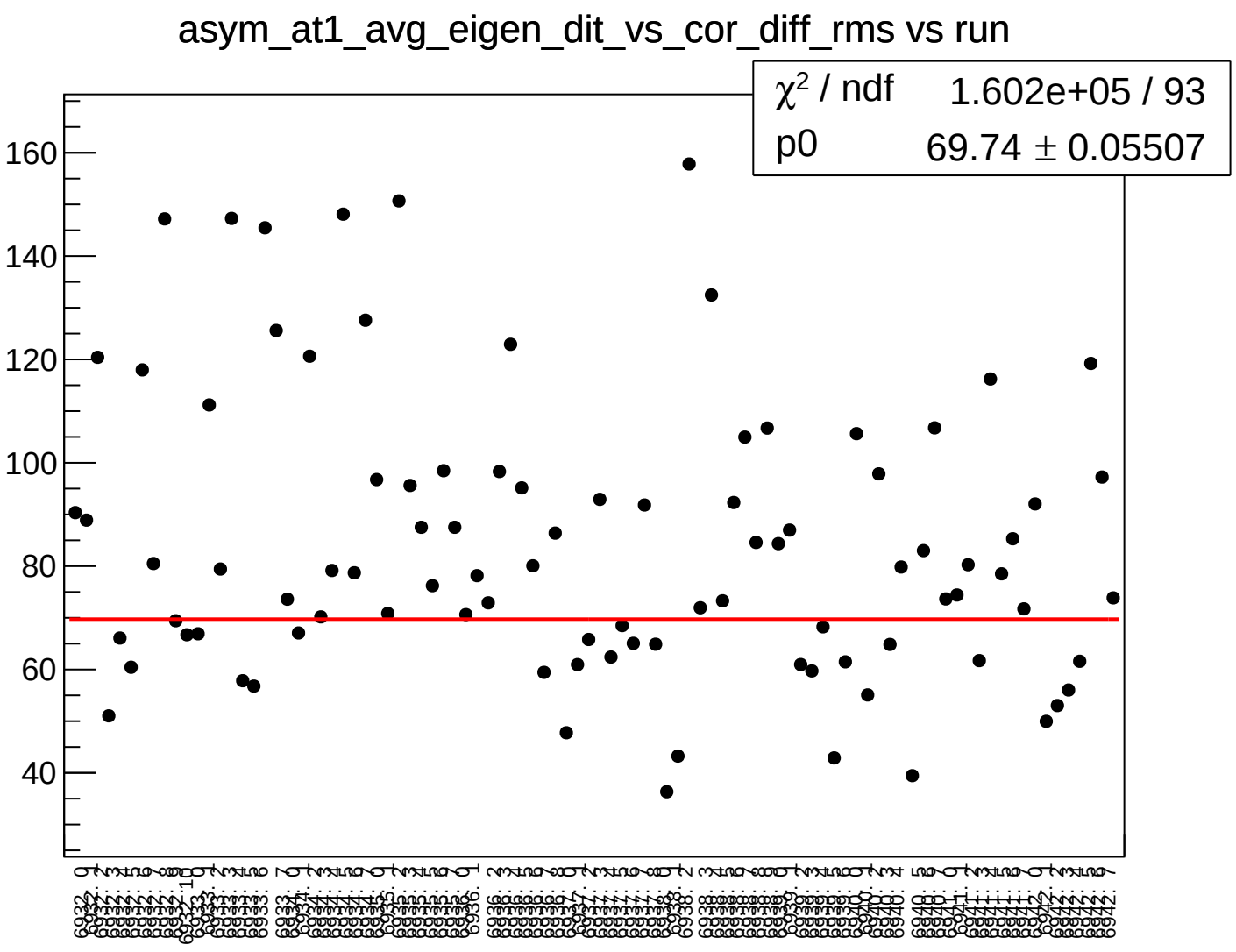

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.71 / 93
p0 −0.01631 ± 0.07788
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean −0.0163
Std Dev 0.9322

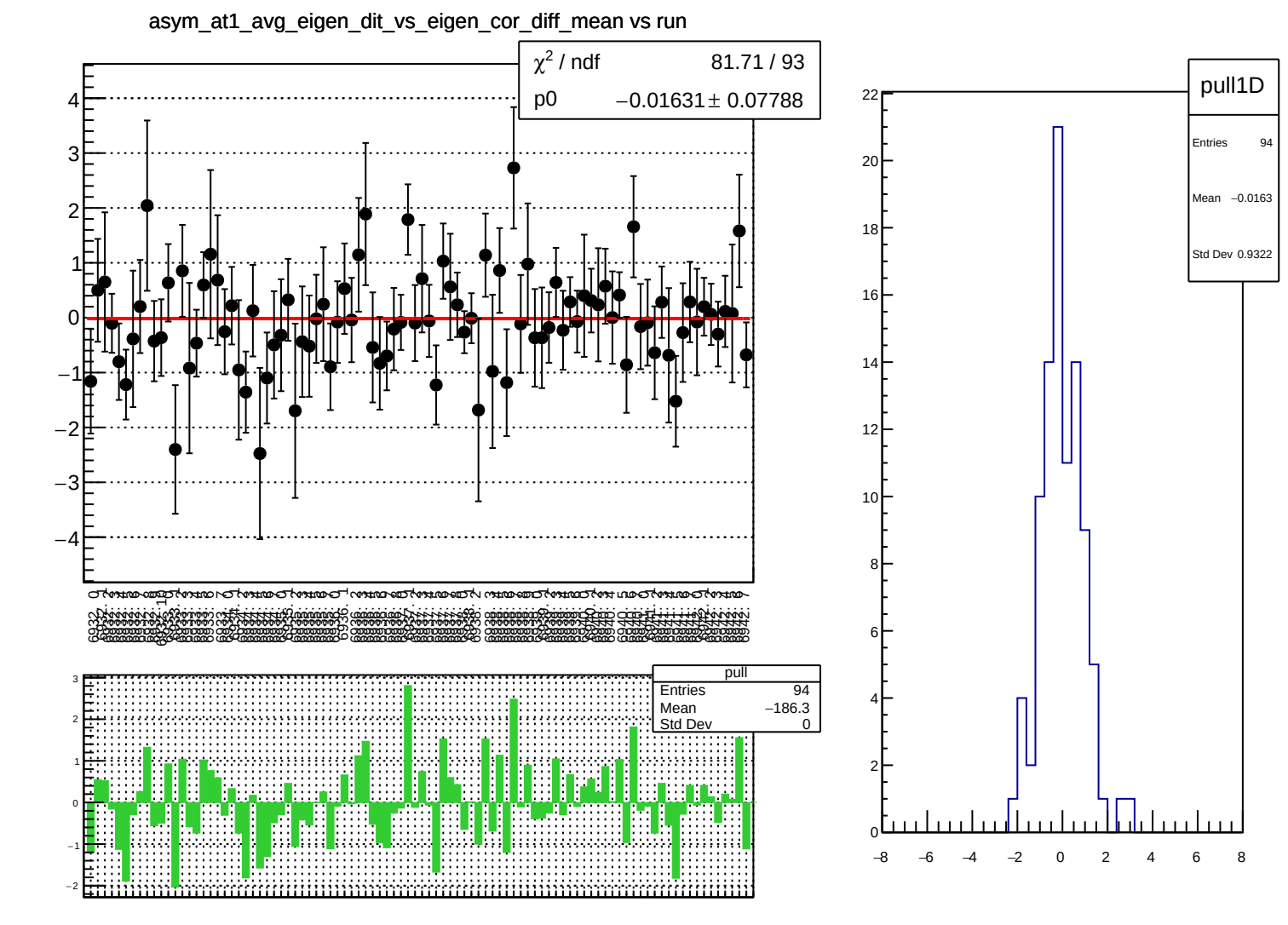

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 93
p0 69.74 ± 0.05507
160
140
120
100
80
60
40

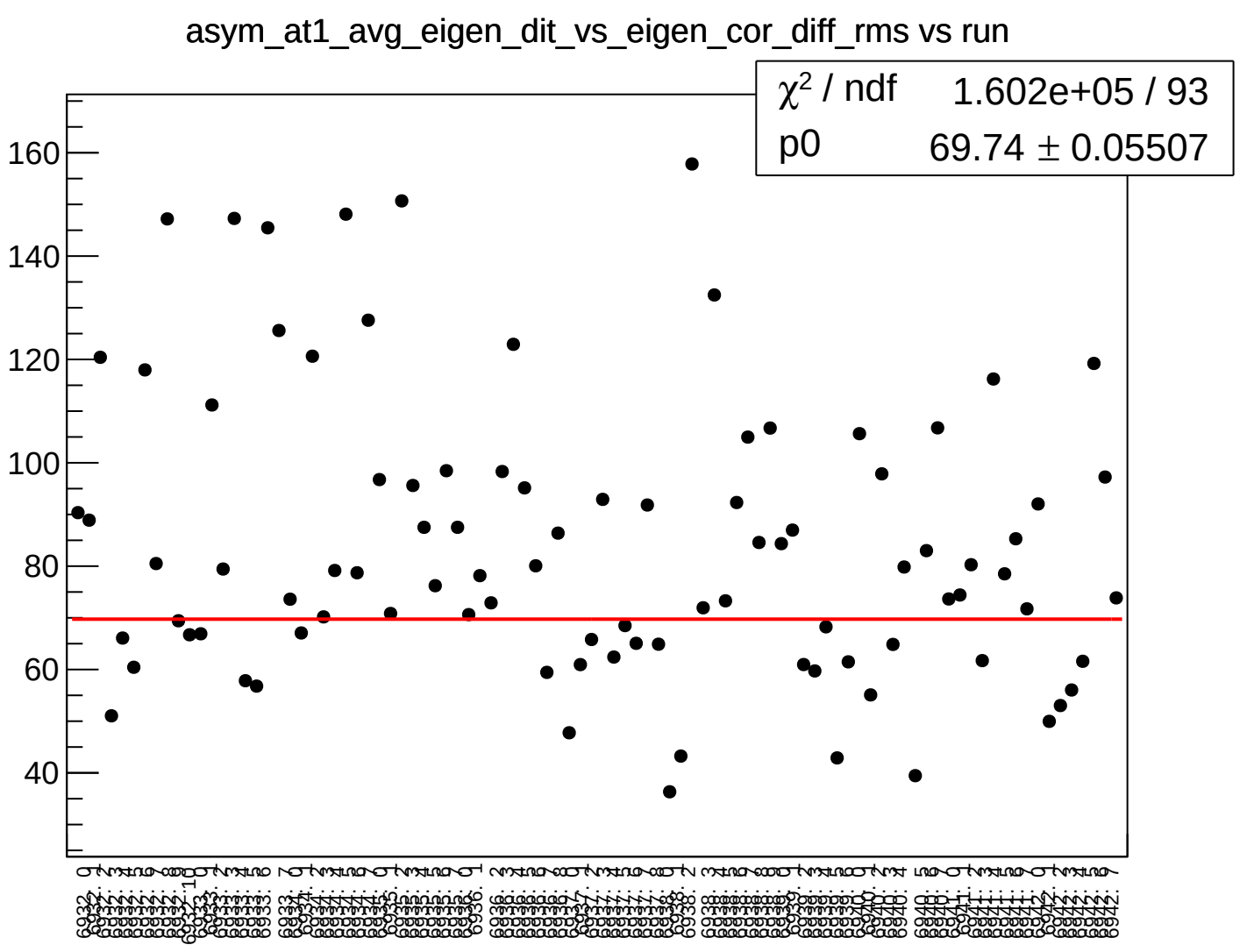

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 74.71 / 93
p0 1.868e−08 ± 3.807e−07
10
5
0
−5
−10
−15
pull
Entries 94
Mean 971.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.001652
Std Dev 0.8915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

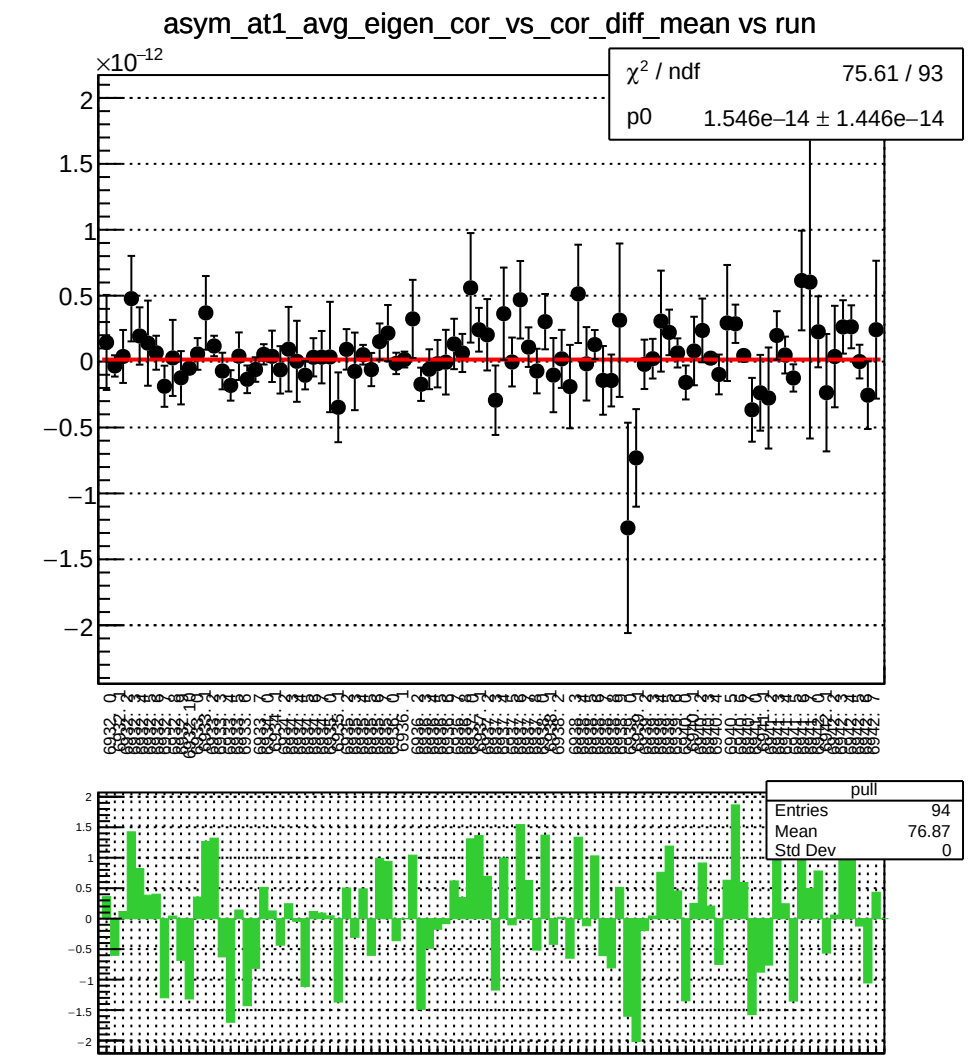

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.225e+04 / 93
p0 0.0003563 ± 2.692e−07
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32

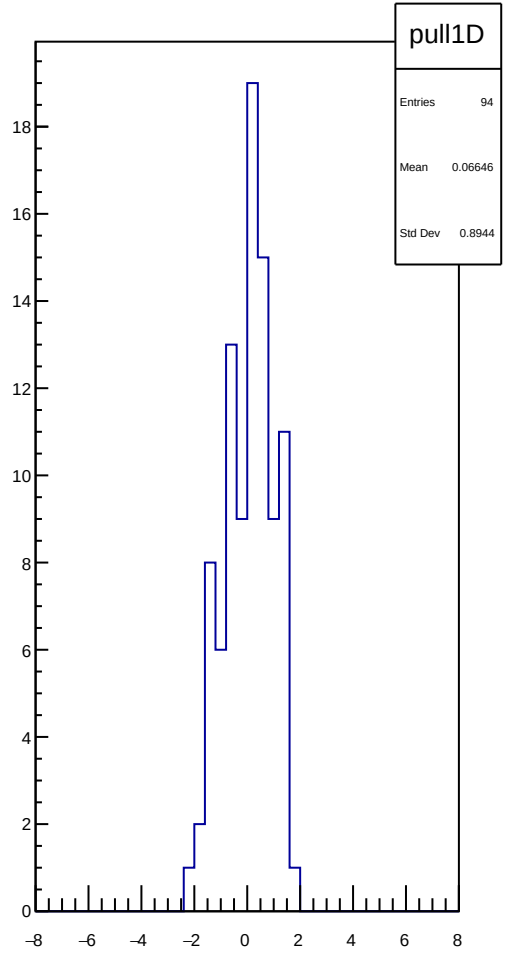

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.71 / 93
p0 −0.01631 ± 0.07788
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean −0.0163
Std Dev 0.9322

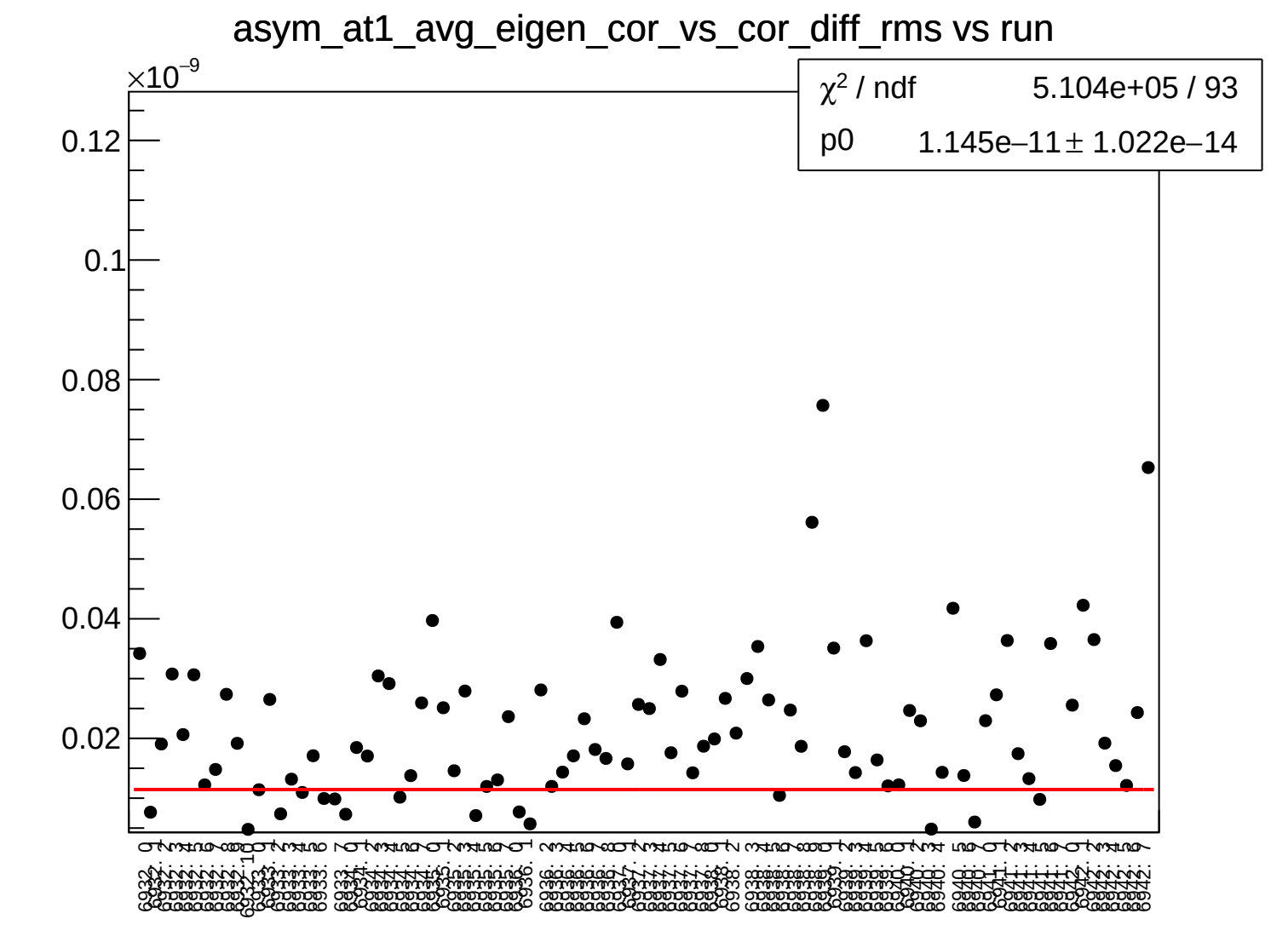

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 93
p0 69.74 ± 0.05507
160
140
120
100
80
60
40

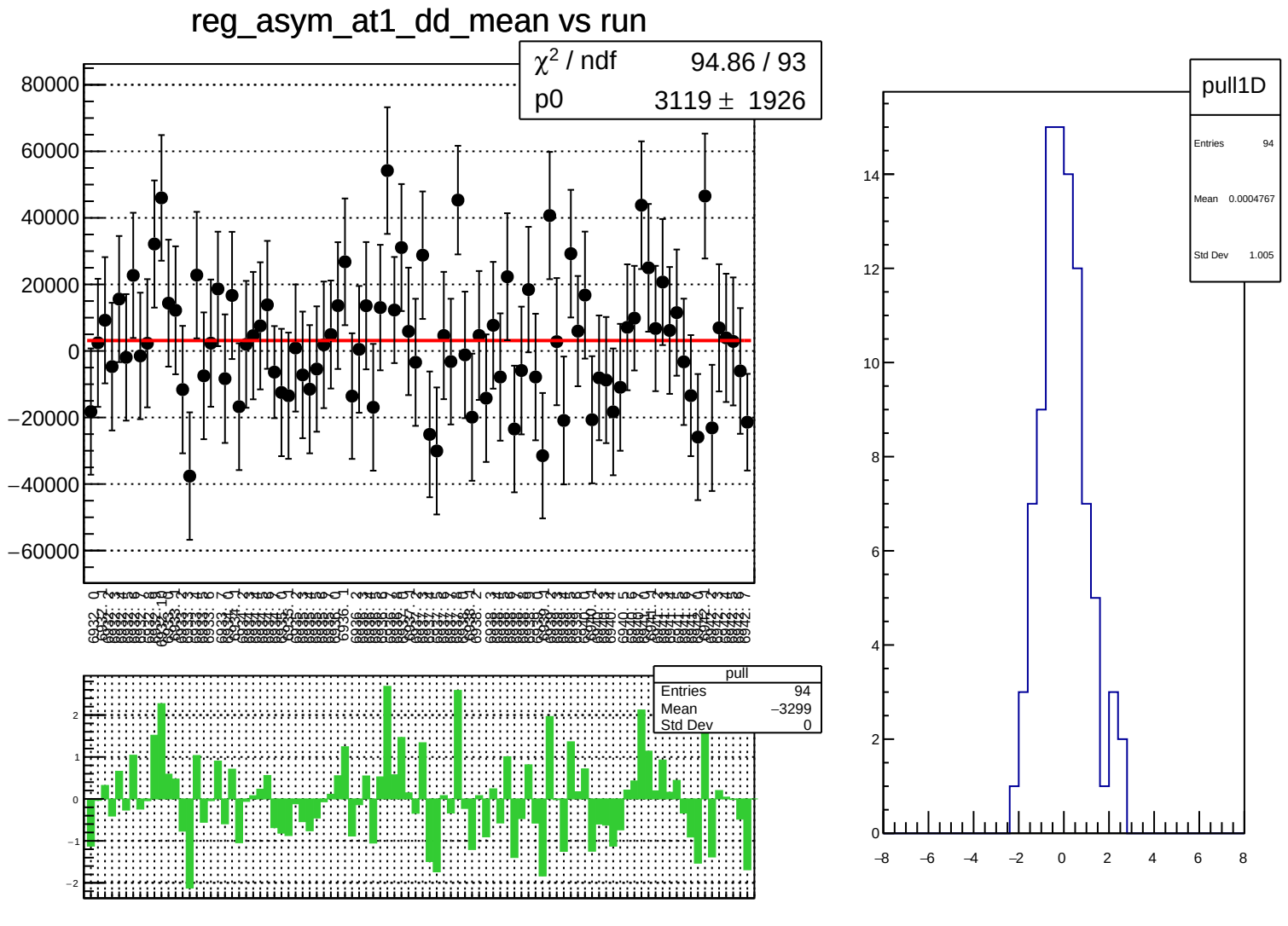

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.71 / 93
p0 −0.01631 ± 0.07788
pull
Entries 94
Mean −186.3
Std Dev 0
pull1D
Entries 94
Mean −0.0163
Std Dev 0.9322

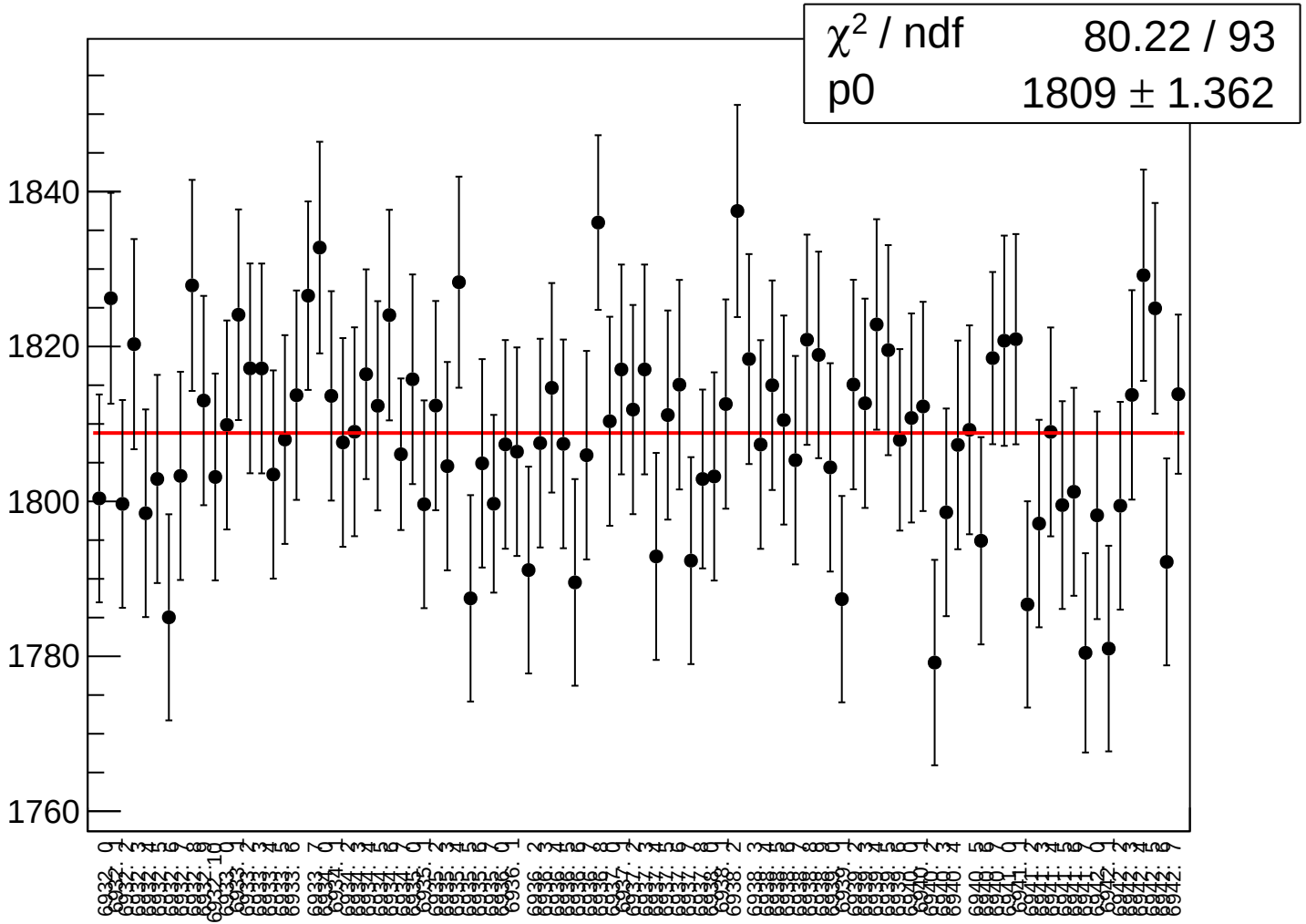

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.602e+05 / 93
p0 69.74 ± 0.05507
160
140
120
100
80
60
40

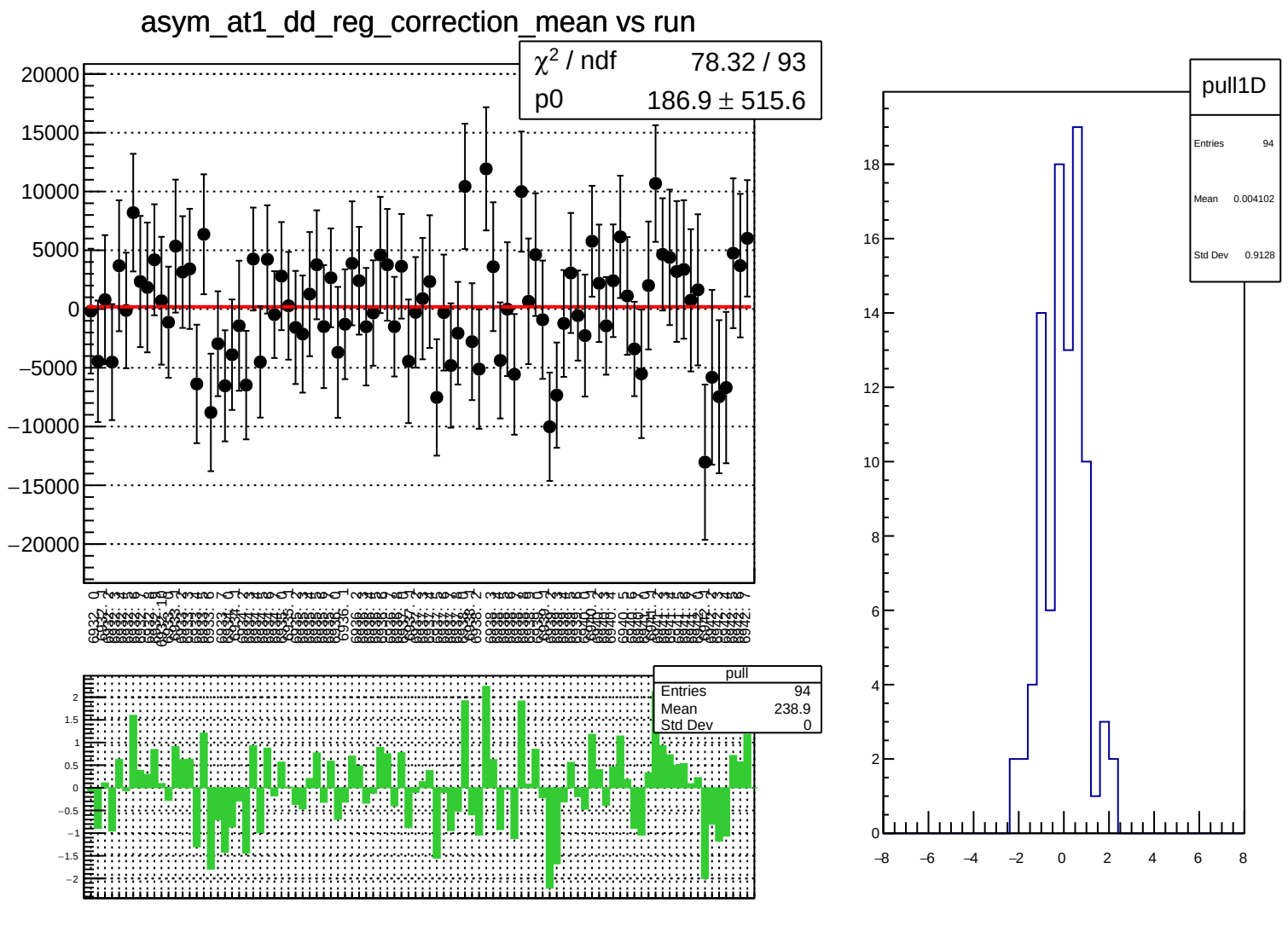

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.61 / 93
p0 1.546e−14 ± 1.446e−14
pull
Entries 94
Mean 76.87
Std Dev 0

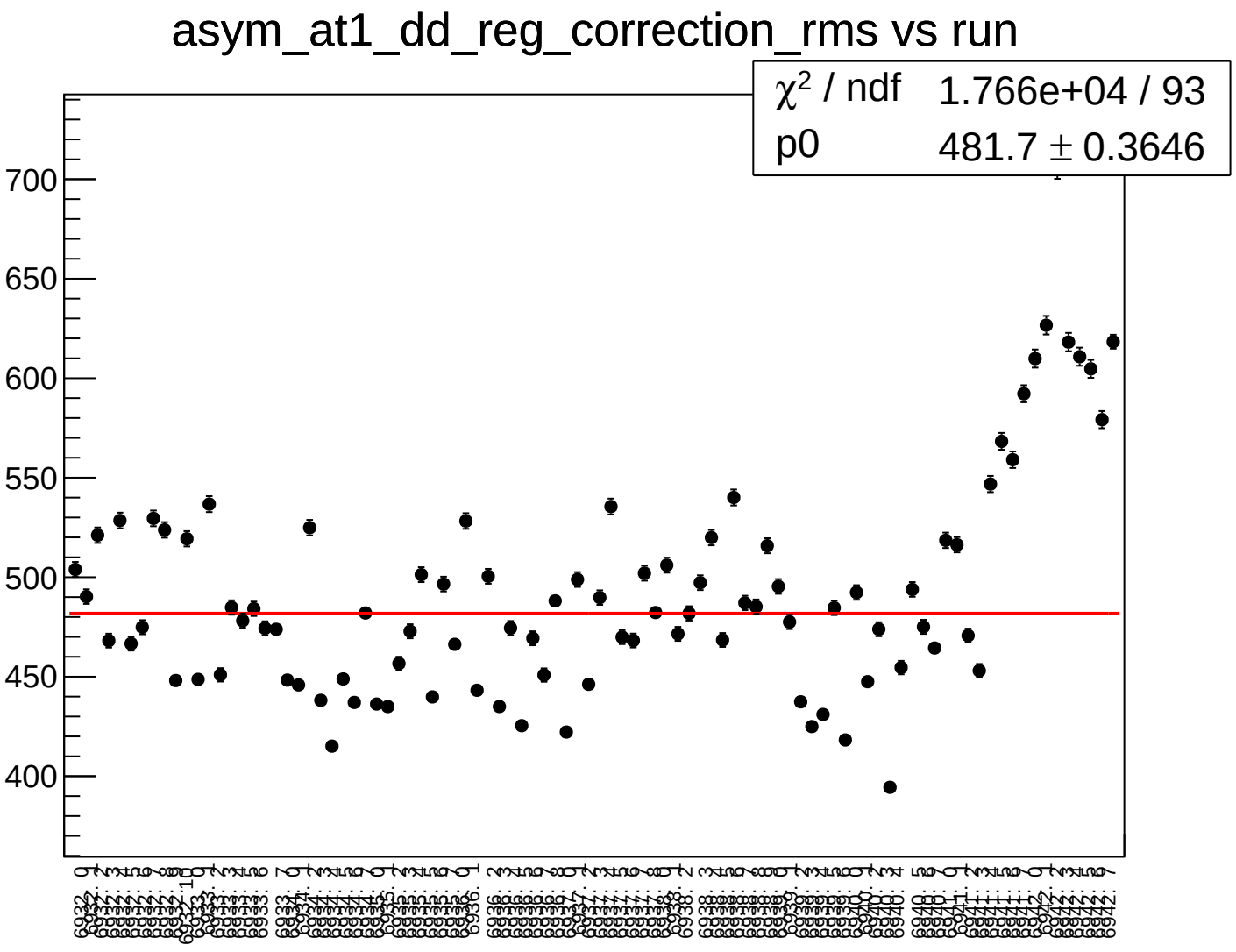

pull1D
Entries 94
Mean 0.06646
Std Dev 0.8944

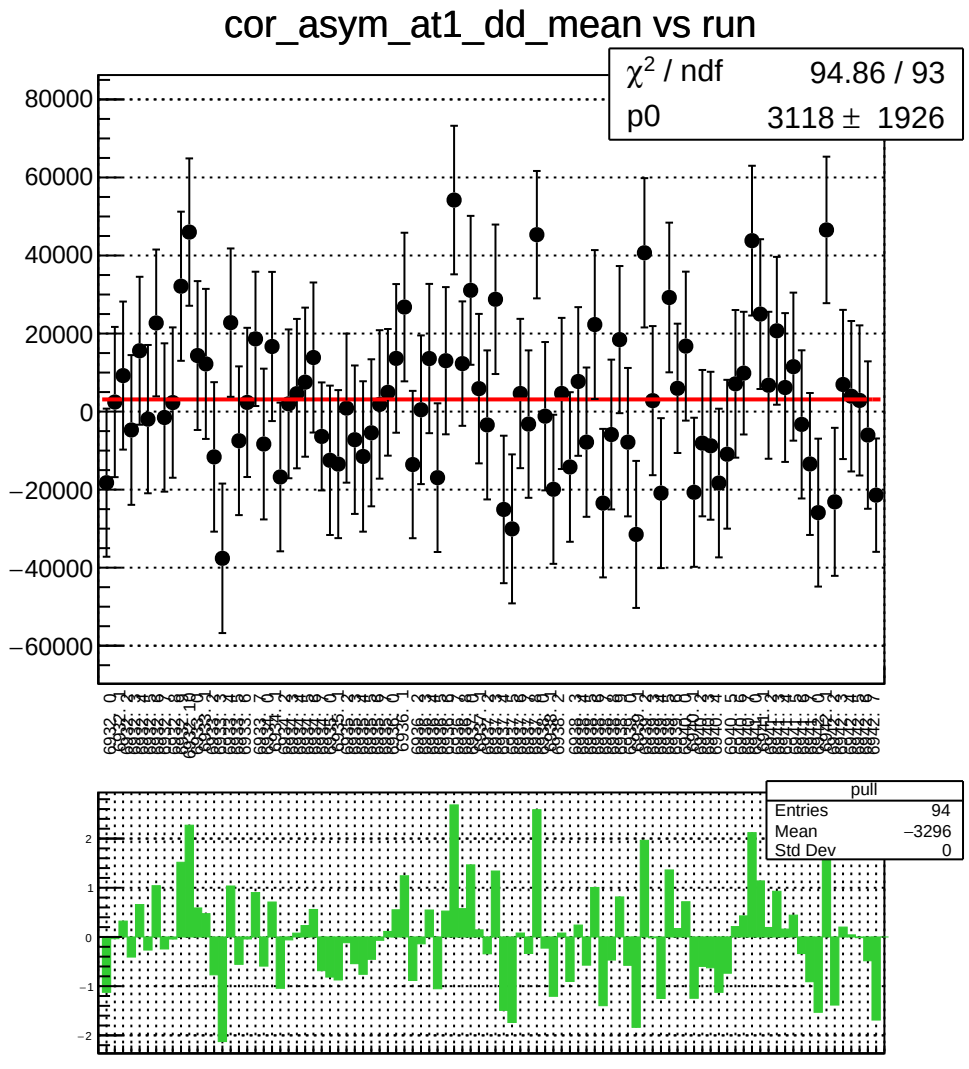

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.104e+05 / 93
p0 1.145e−11 ± 1.022e−14
0.12
0.1
0.08
0.06
0.04
0.02

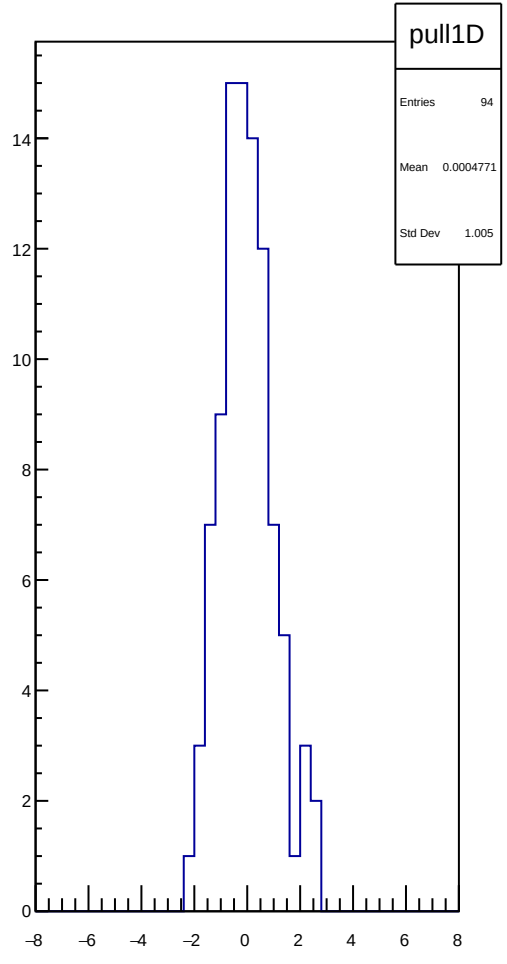

reg_asym_at1_dd_mean vs run
χ² / ndf 94.86 / 93
p0 3119 ± 1926
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −3299
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0004767
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

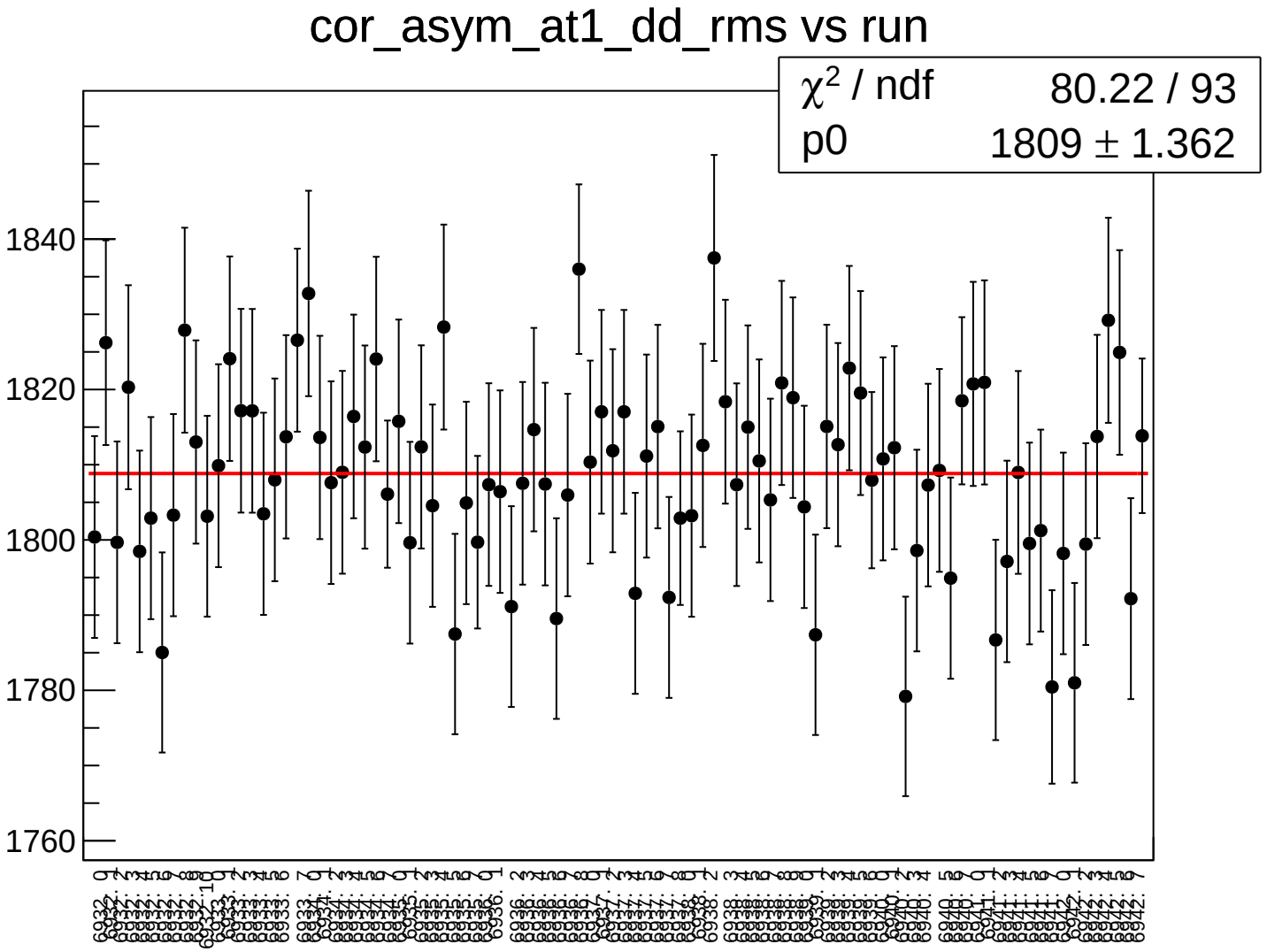

reg_asym_at1_dd_rms vs run
χ^2 / ndf 80.22 / 93
p0 1809 ± 1.362
1840
1820
1800
1780
1760

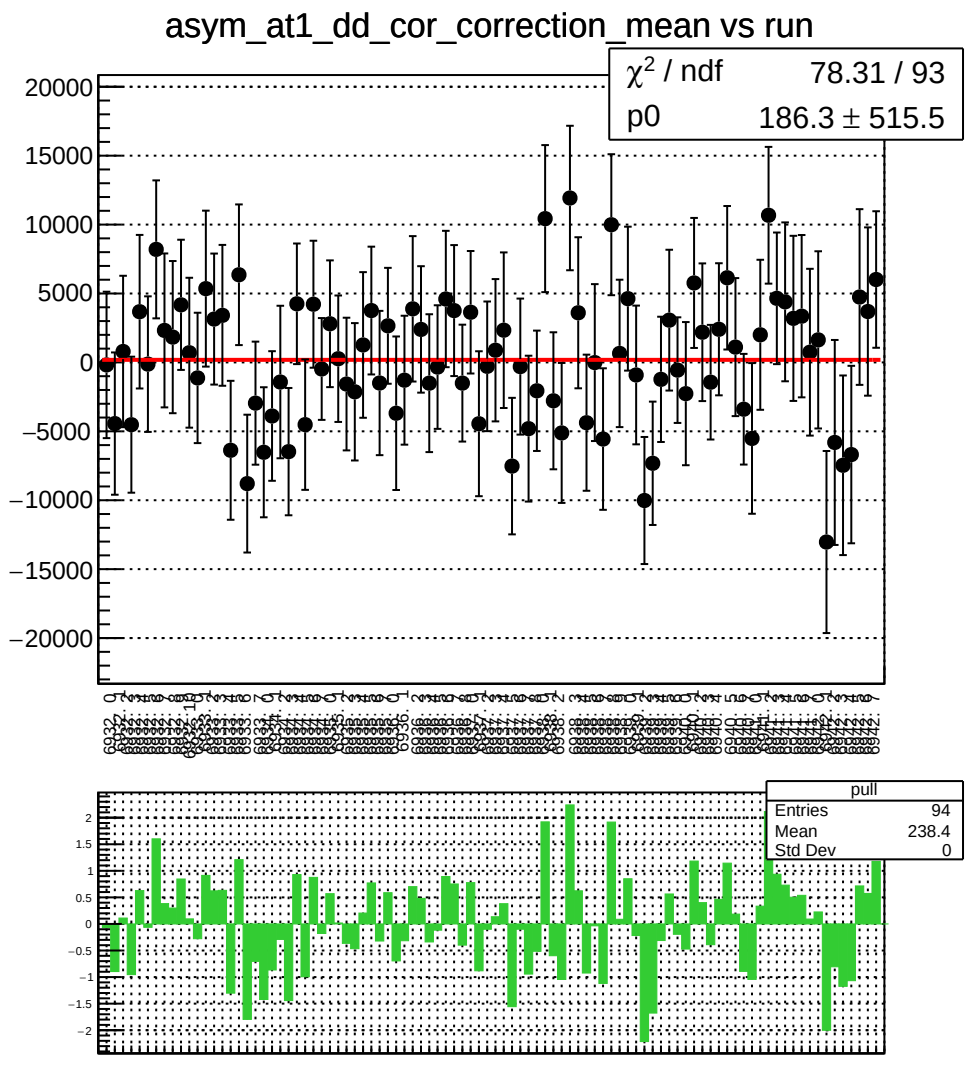

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 78.32 / 93
p0 186.9 ± 515.6
pull
Entries 94
Mean 238.9
Std Dev 0
pull1D
Entries 94
Mean 0.004102
Std Dev 0.9128

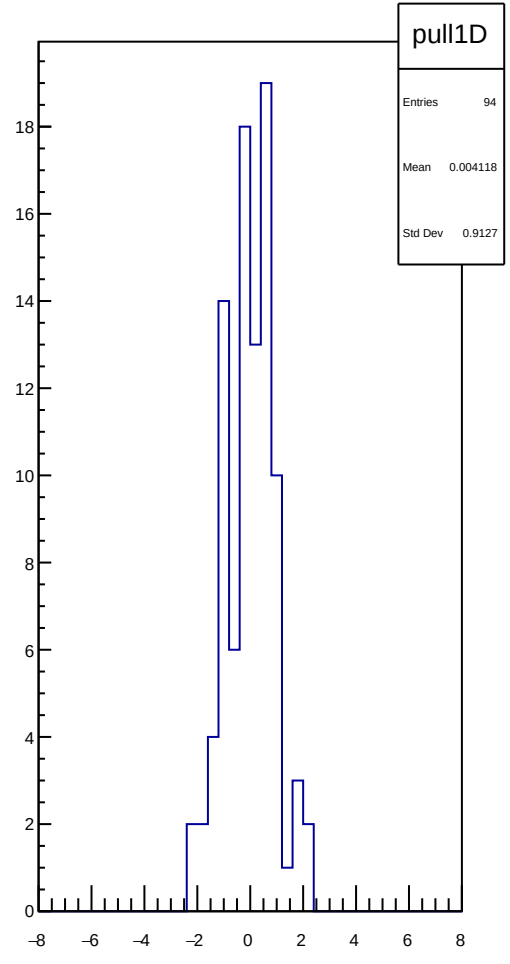

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.766e+04 / 93
p0 481.7 ± 0.3646
700
650
600
550
500
450
400

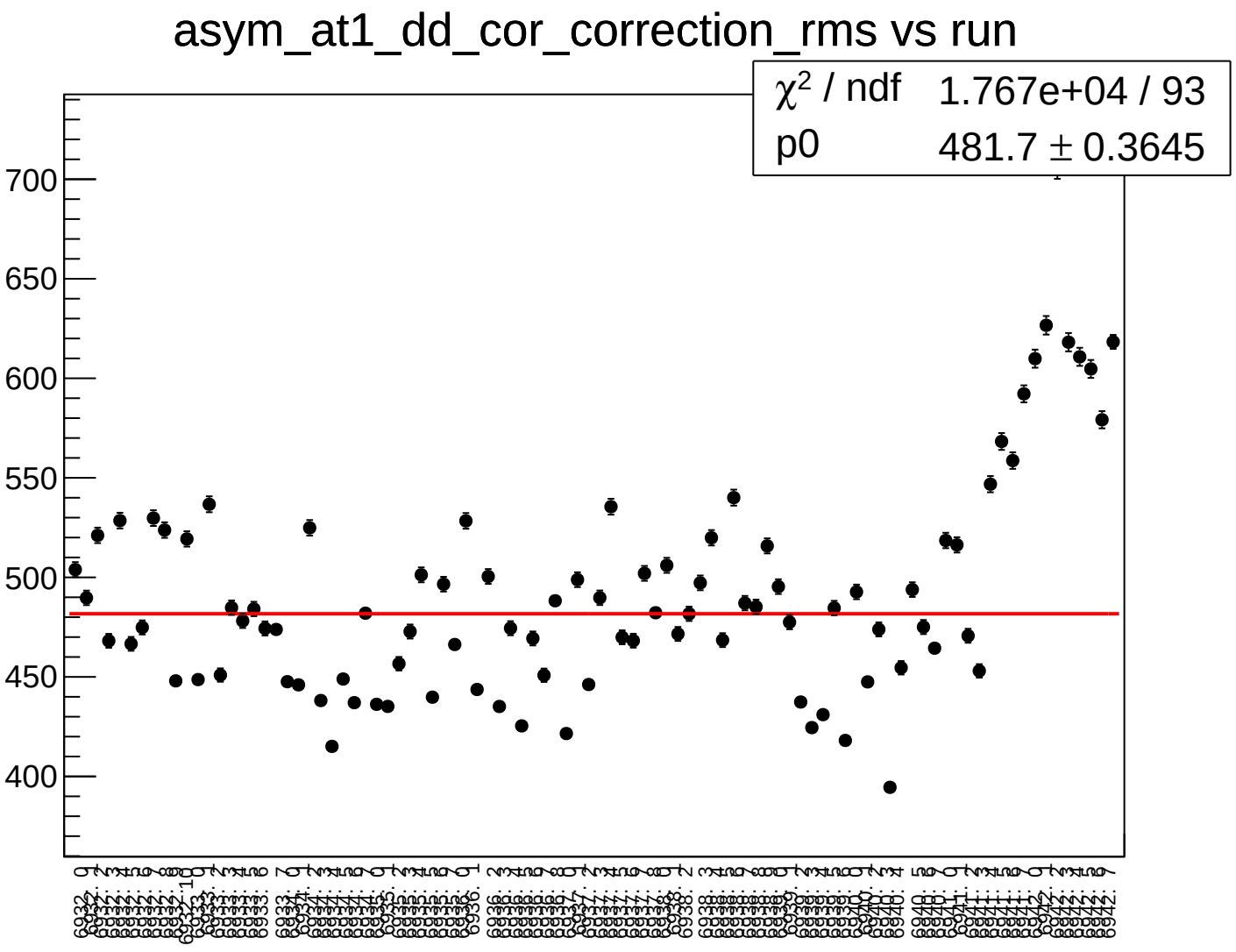

cor_asym_at1_dd_mean vs run
χ² / ndf 94.86 / 93
p0 3118 ± 1926
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −3296
Std Dev 0
2
1
0
−1
−2

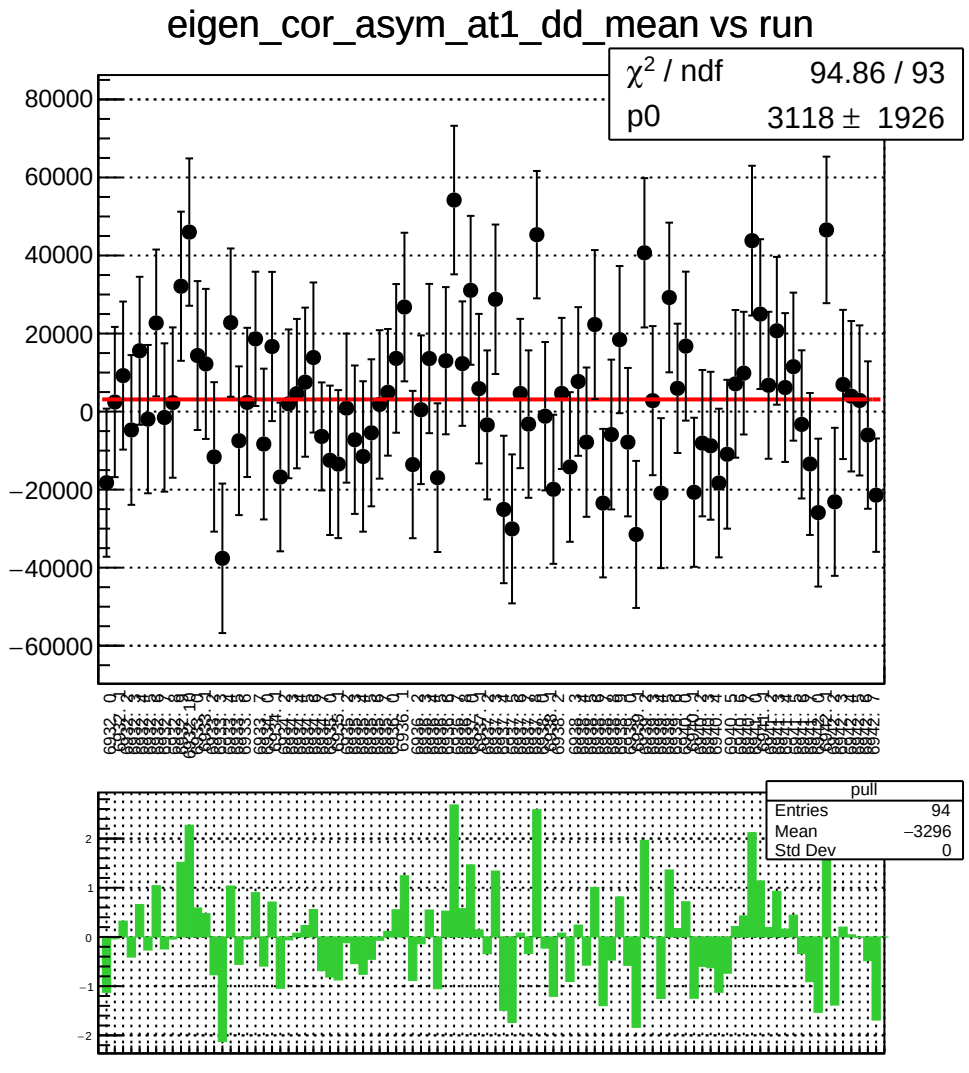

pull1D
Entries 94
Mean 0.0004771
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

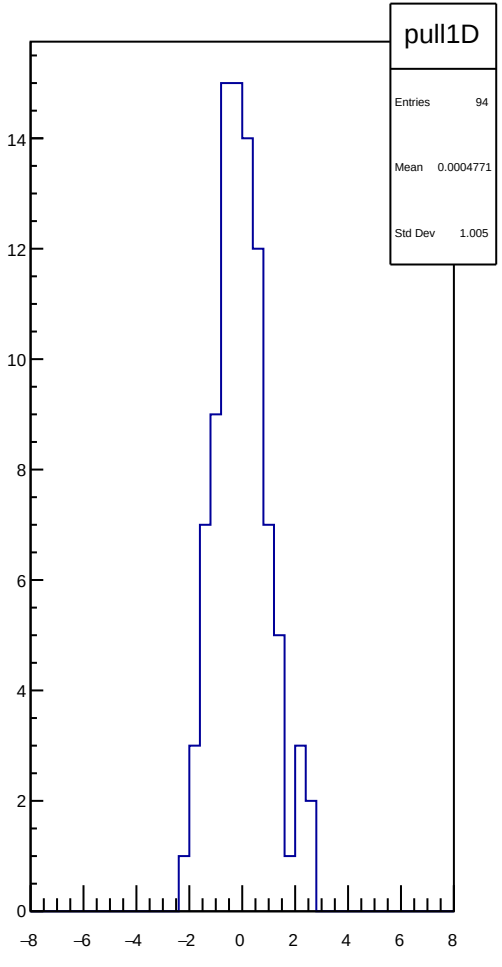

cor_asym_at1_dd_rms vs run
χ² / ndf 80.22 / 93
p0 1809 ± 1.362
1840
1820
1800
1780
1760

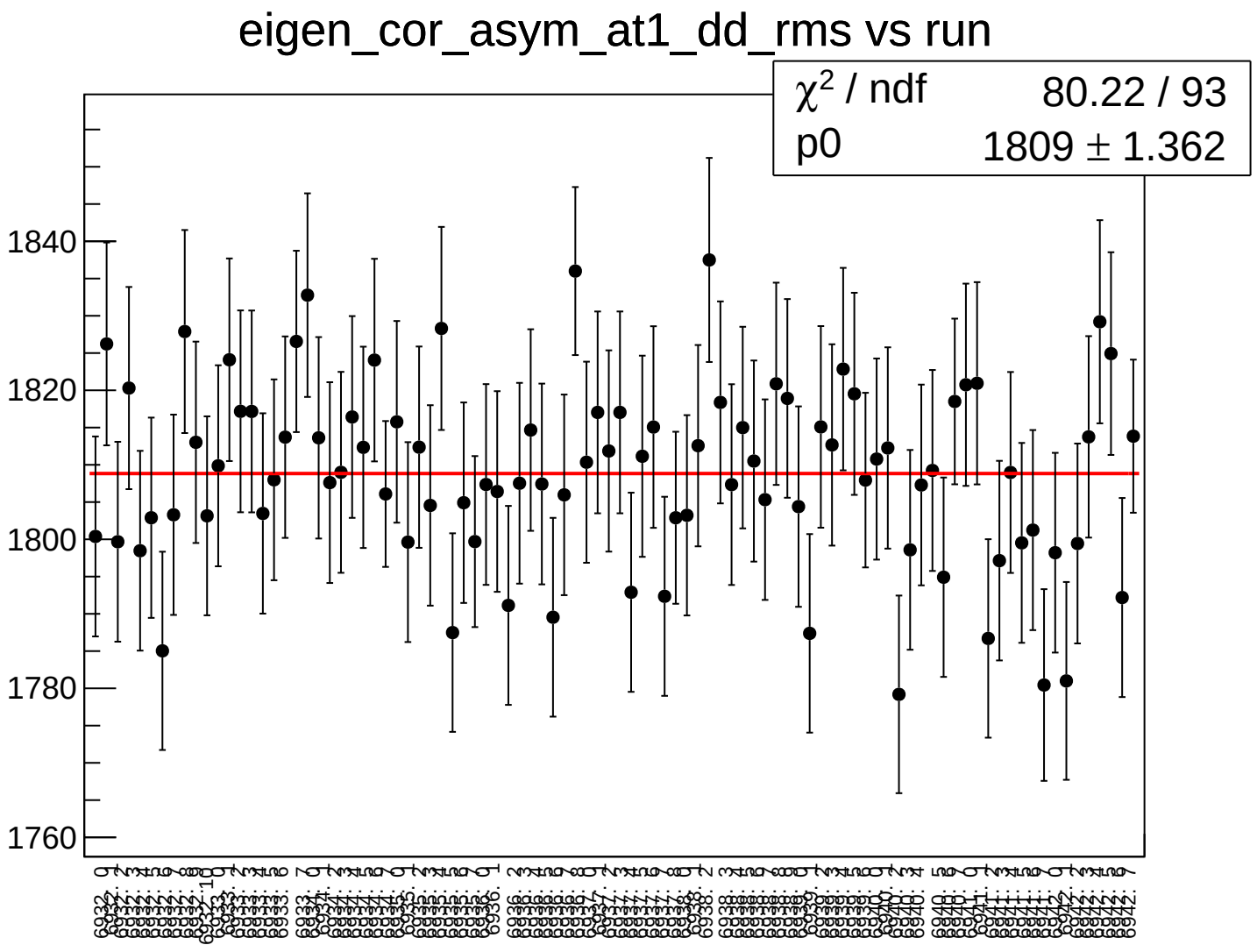

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 78.31 / 93
p0 186.3 ± 515.5
pull
Entries 94
Mean 238.4
Std Dev 0

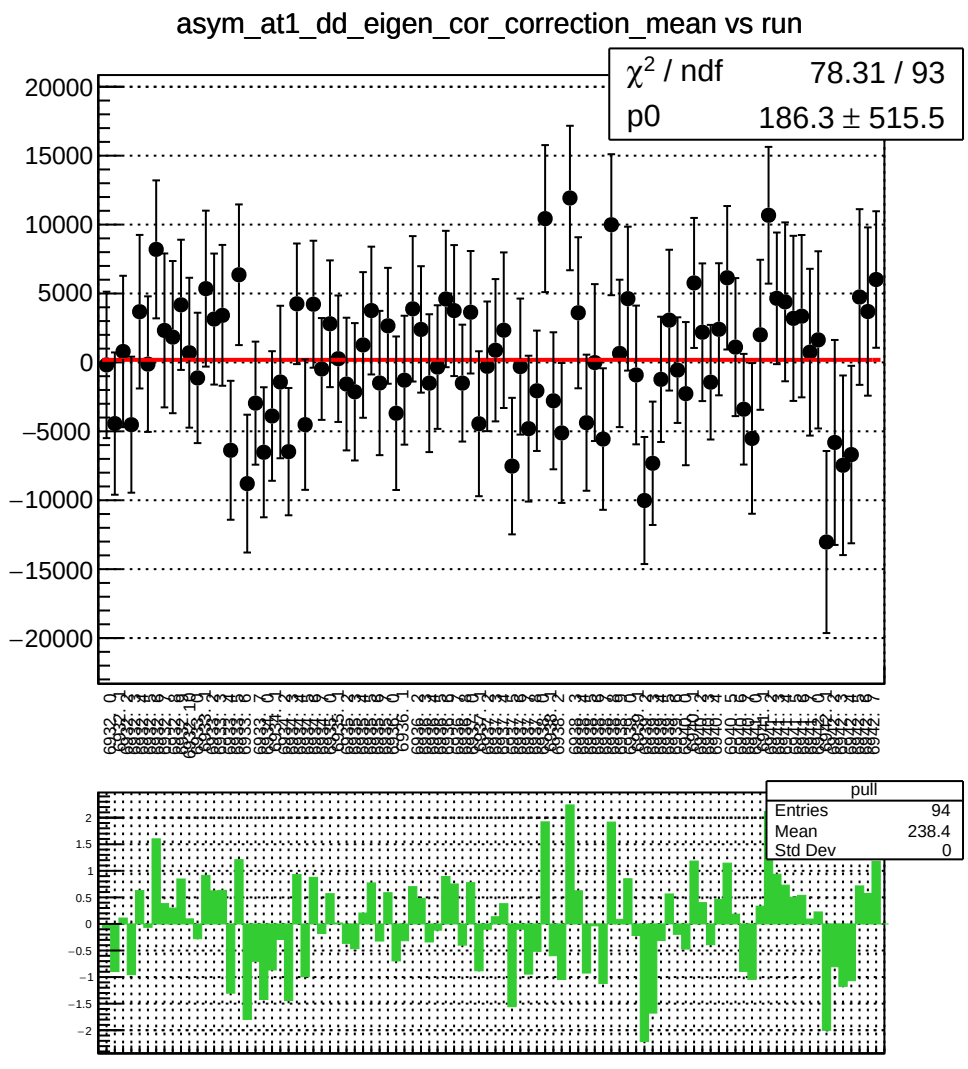

pull1D
Entries 94
Mean 0.004118
Std Dev 0.9127

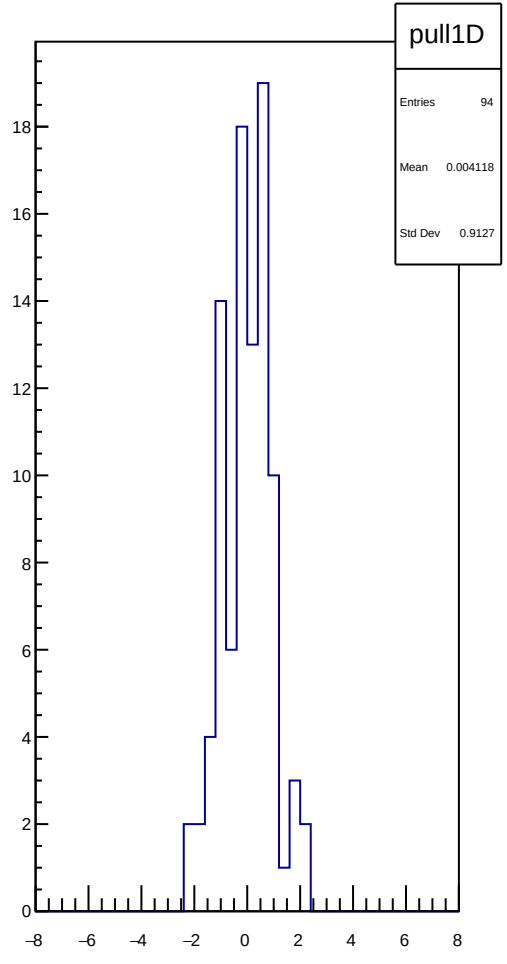

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.767e+04 / 93
p0 481.7 ± 0.3645
700
650
600
550
500
450
400

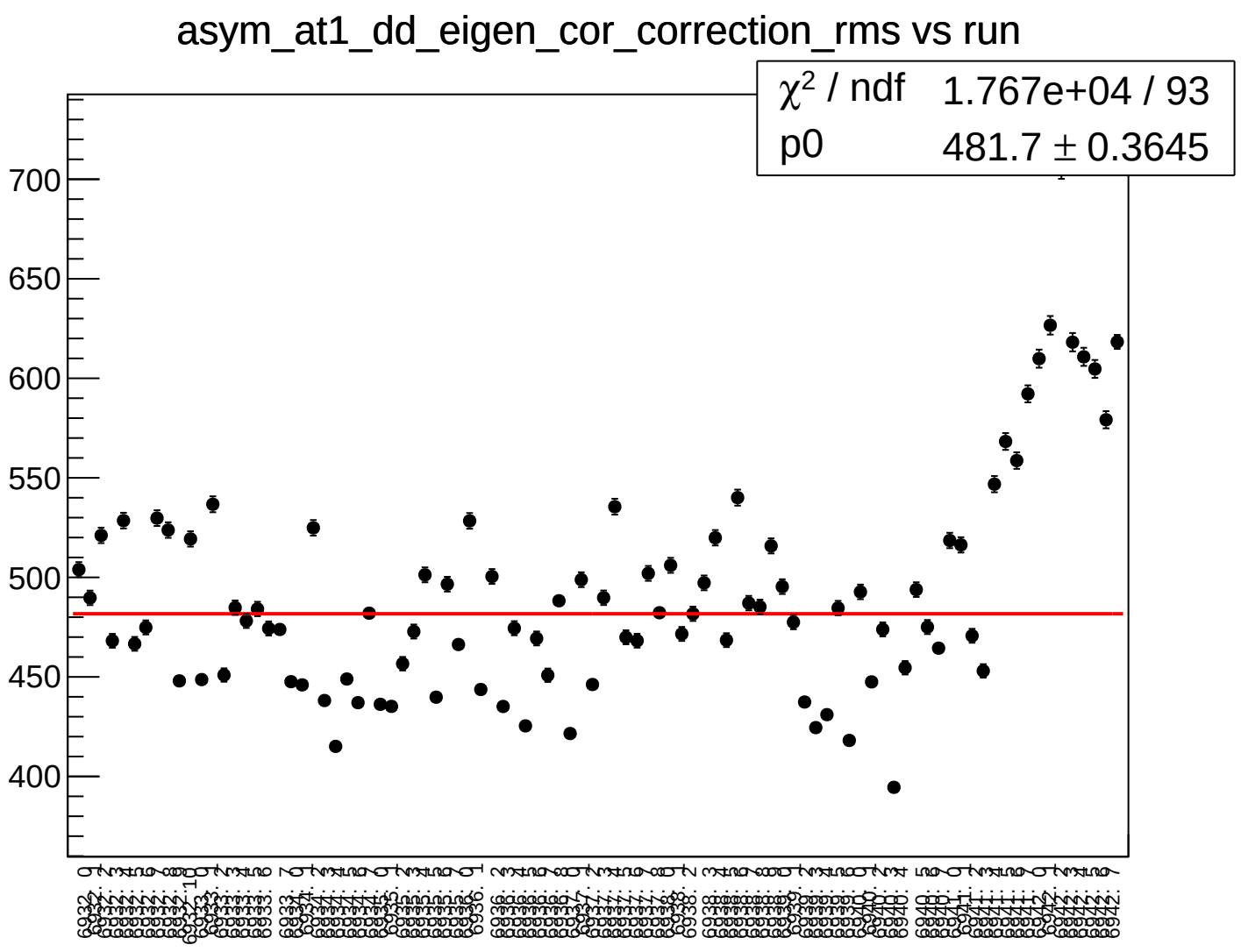

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 94.86 / 93
p0 3118 ± 1926
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −3296
Std Dev 0
2
1
0
−1
−2

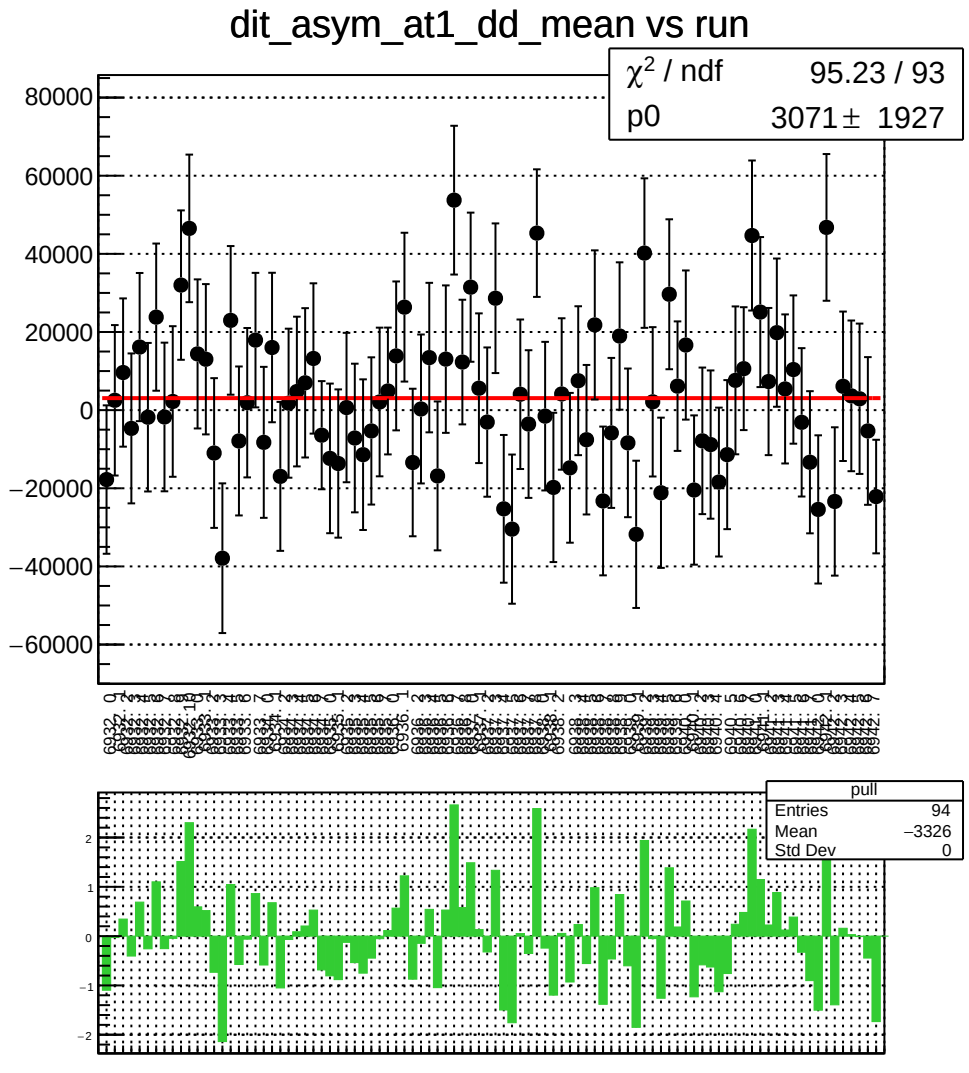

pull1D
Entries 94
Mean 0.0004771
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

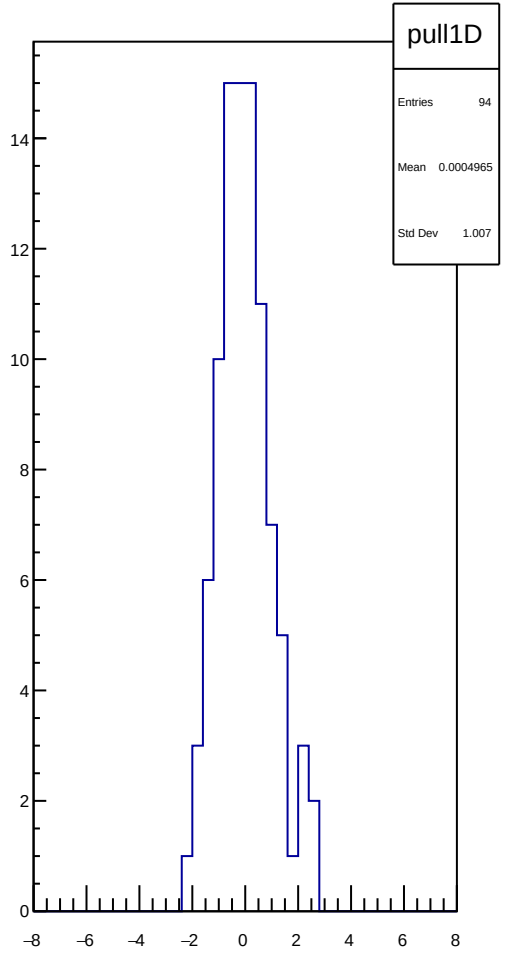

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 80.22 / 93
p0 1809 ± 1.362
1840
1820
1800
1780
1760

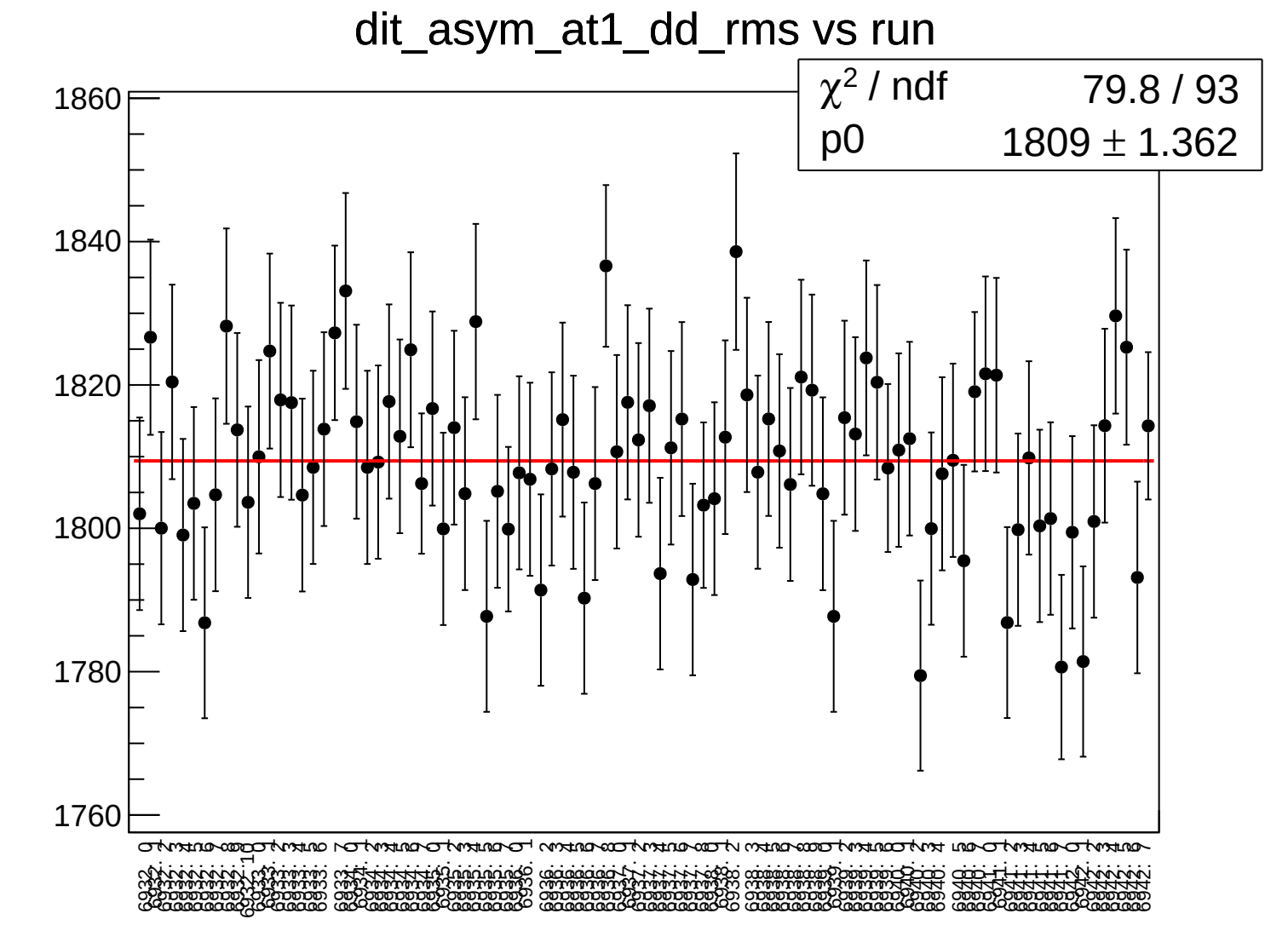

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.31 / 93
p0 186.3 ± 515.5
pull
Entries 94
Mean 238.4
Std Dev 0

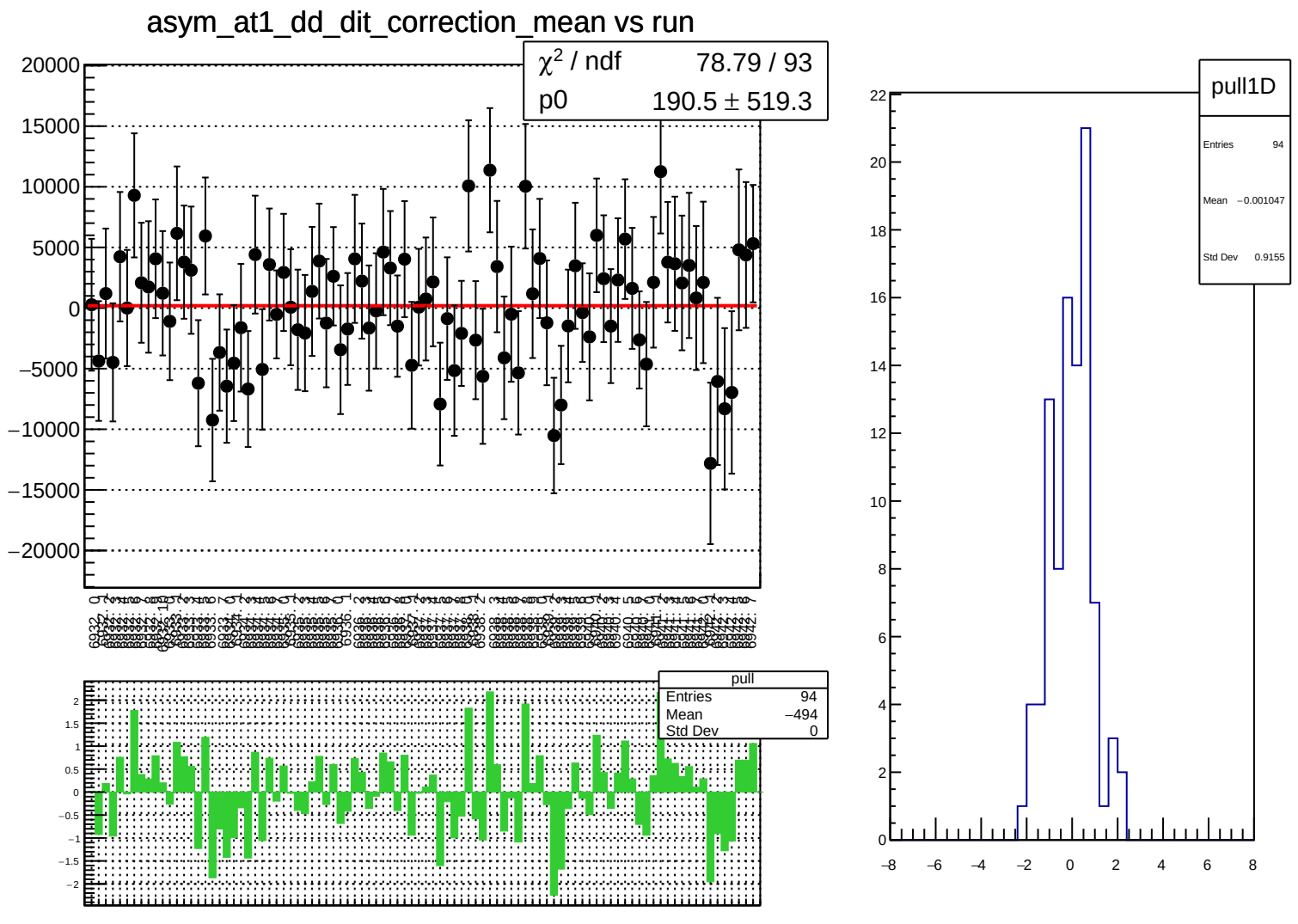

pull1D
Entries 94
Mean 0.004118
Std Dev 0.9127

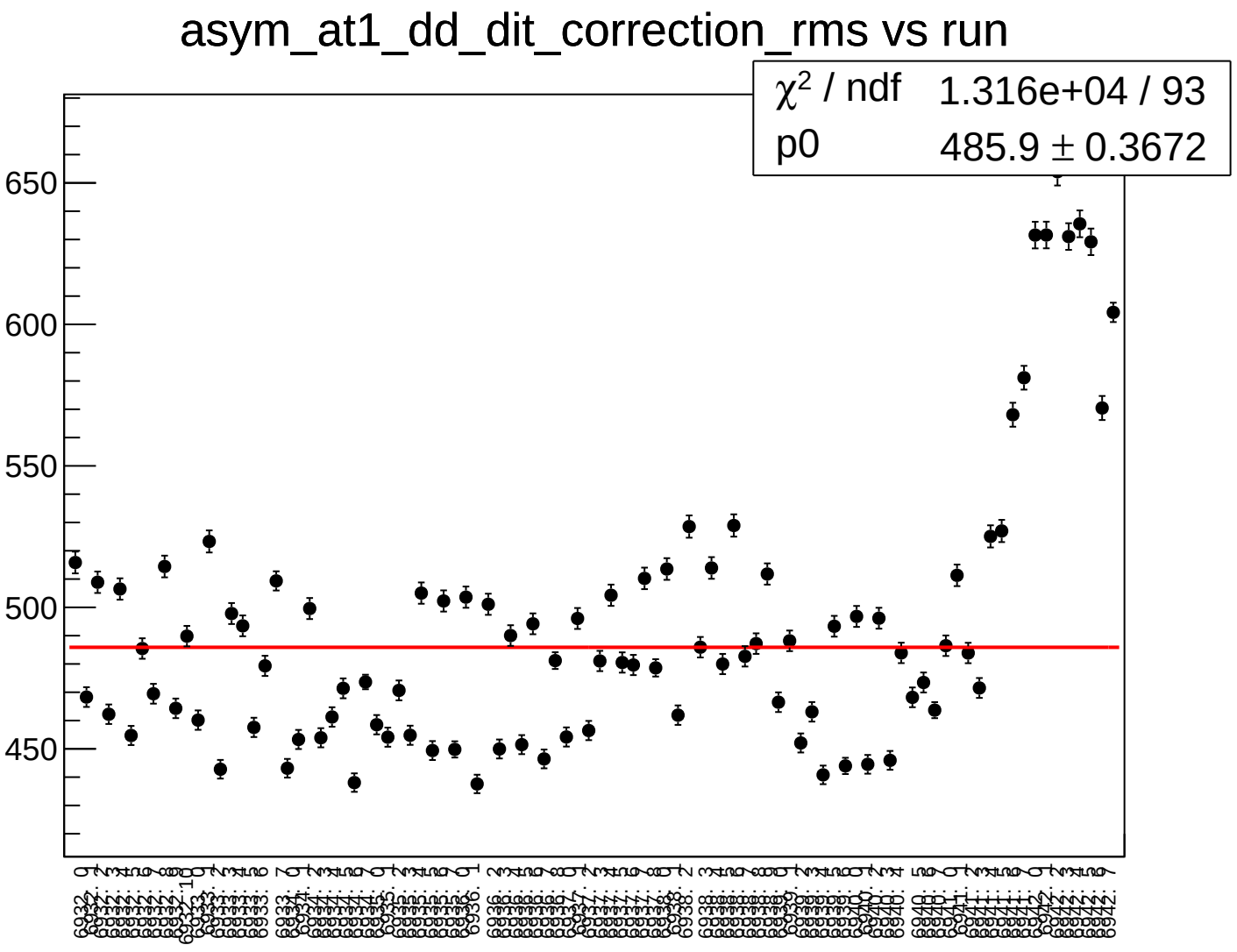

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.767e+04 / 93
p0 481.7 ± 0.3645
700
650
600
550
500
450
400

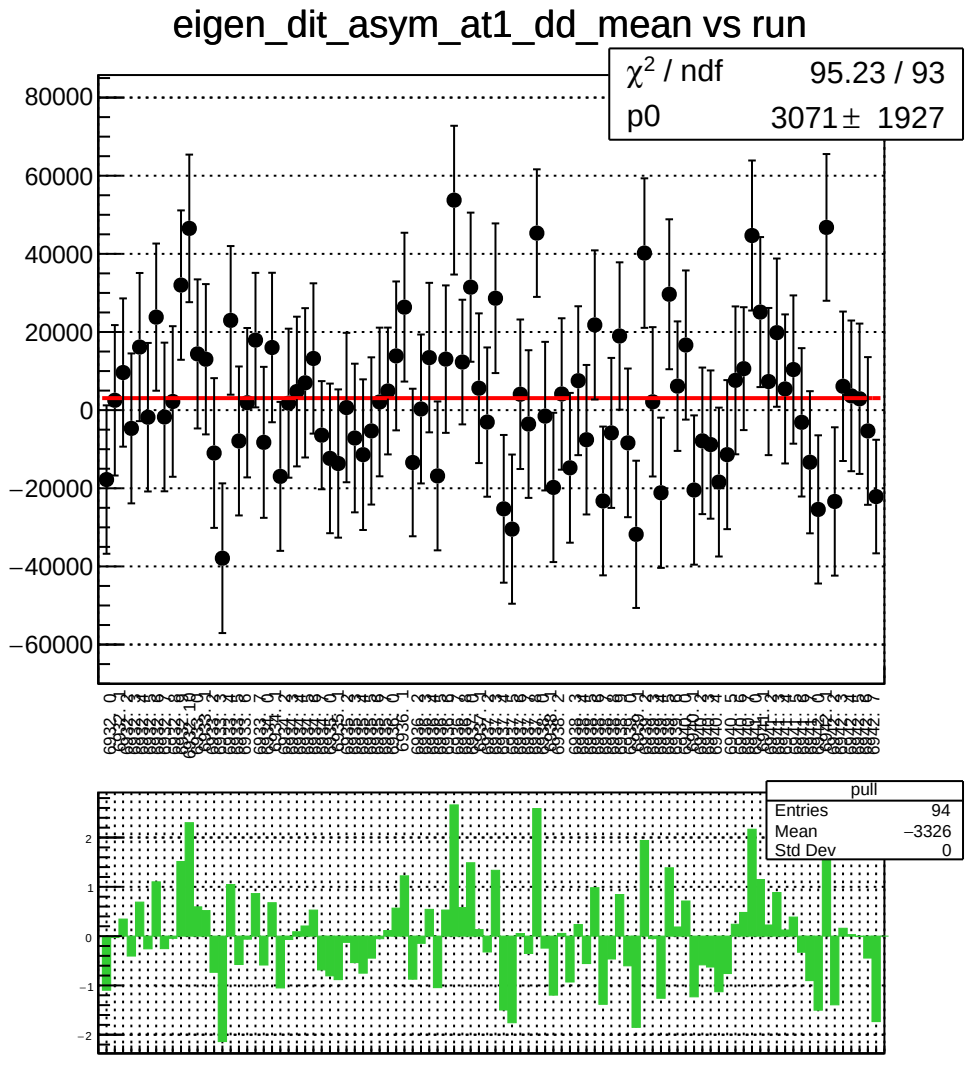

dit_asym_at1_dd_mean vs run
χ² / ndf 95.23 / 93
p0 3071 ± 1927
pull
Entries 94
Mean −3326
Std Dev 0

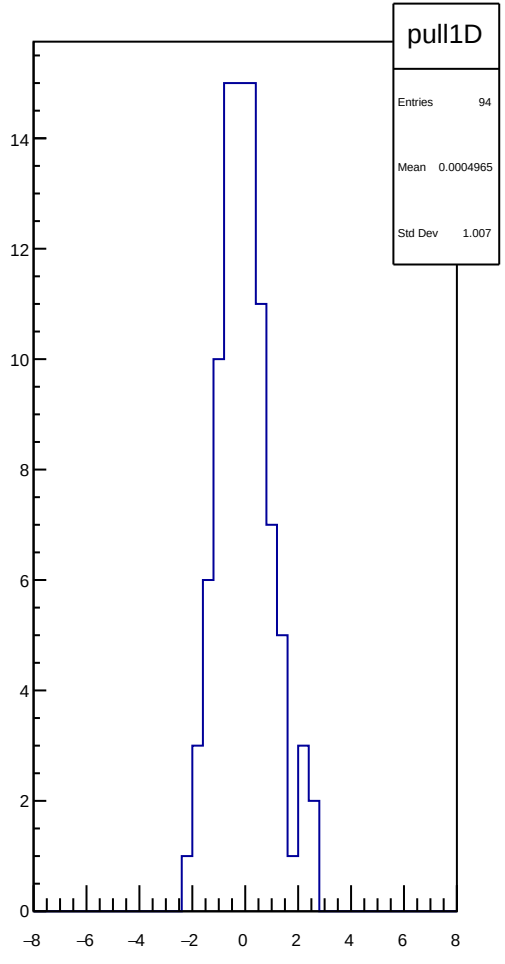

pull1D
Entries 94
Mean 0.0004965
Std Dev 1.007

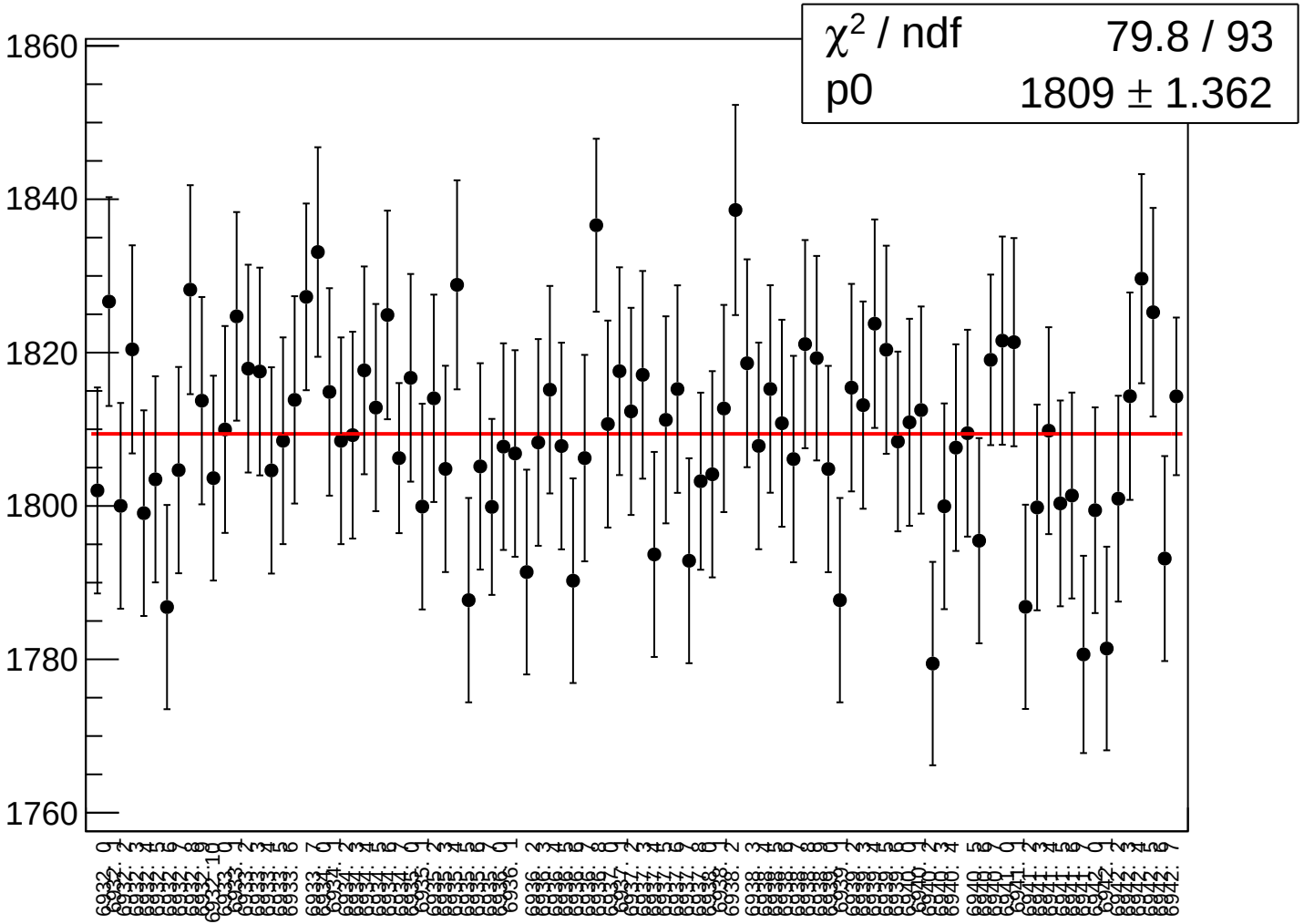

dit_asym_at1_dd_rms vs run
χ² / ndf 79.8 / 93
p0 1809 ± 1.362
1860
1840
1820
1800
1780
1760

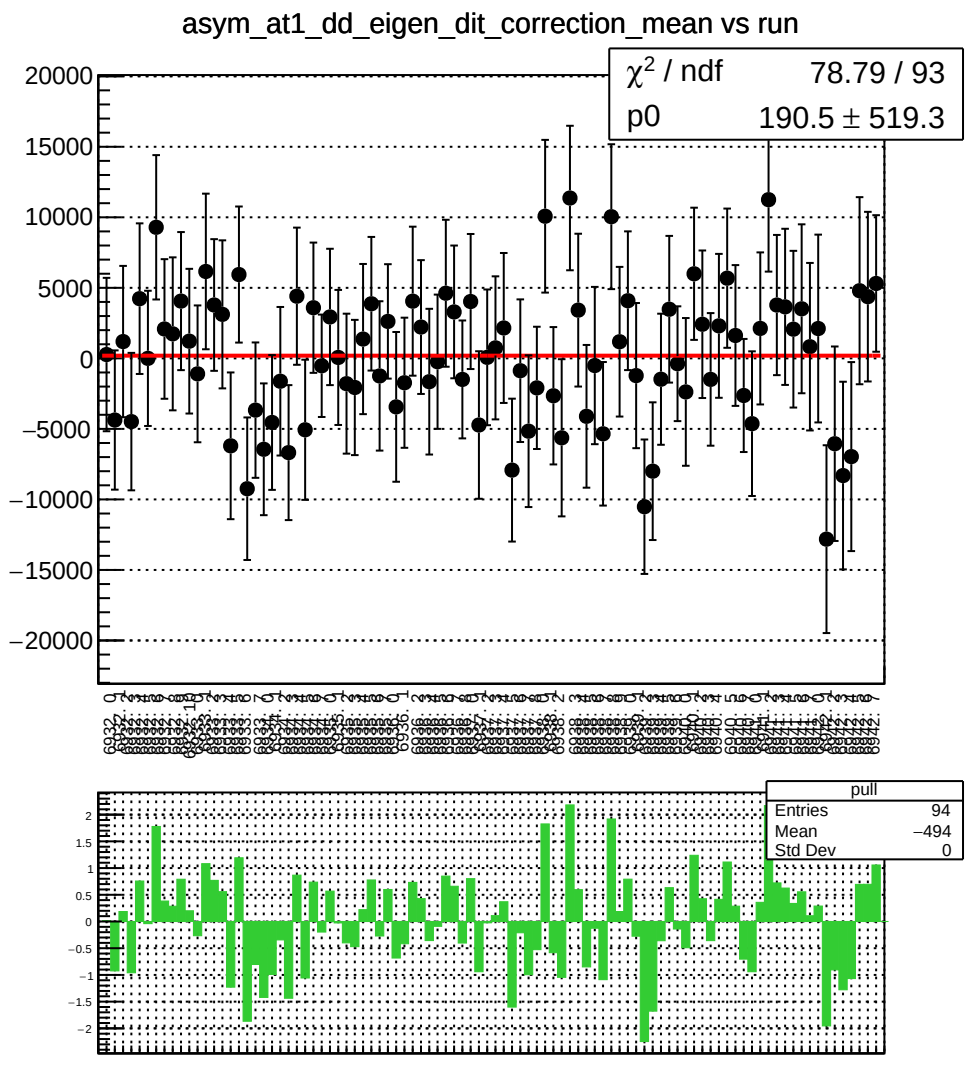

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 78.79 / 93
p0 190.5 ± 519.3
pull
Entries 94
Mean −494
Std Dev 0
pull1D
Entries 94
Mean −0.001047
Std Dev 0.9155

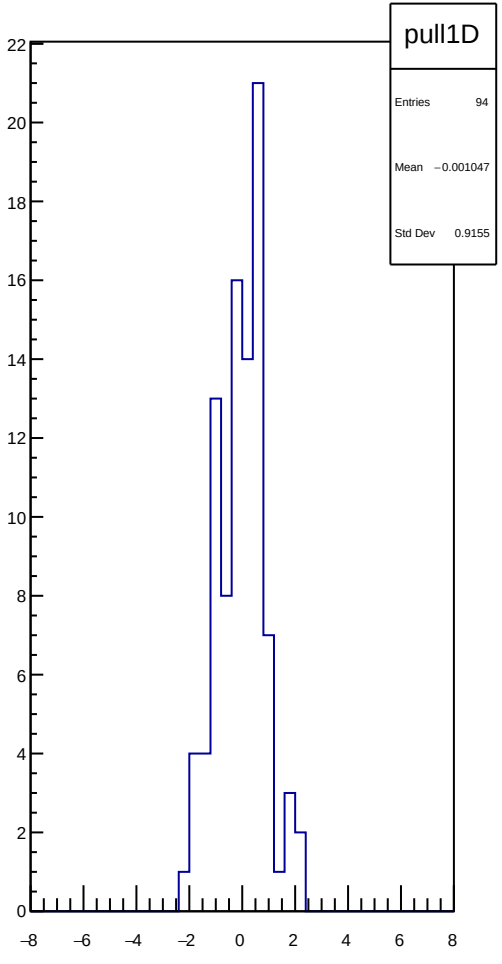

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 93
p0 485.9 ± 0.3672
650
600
550
500
450

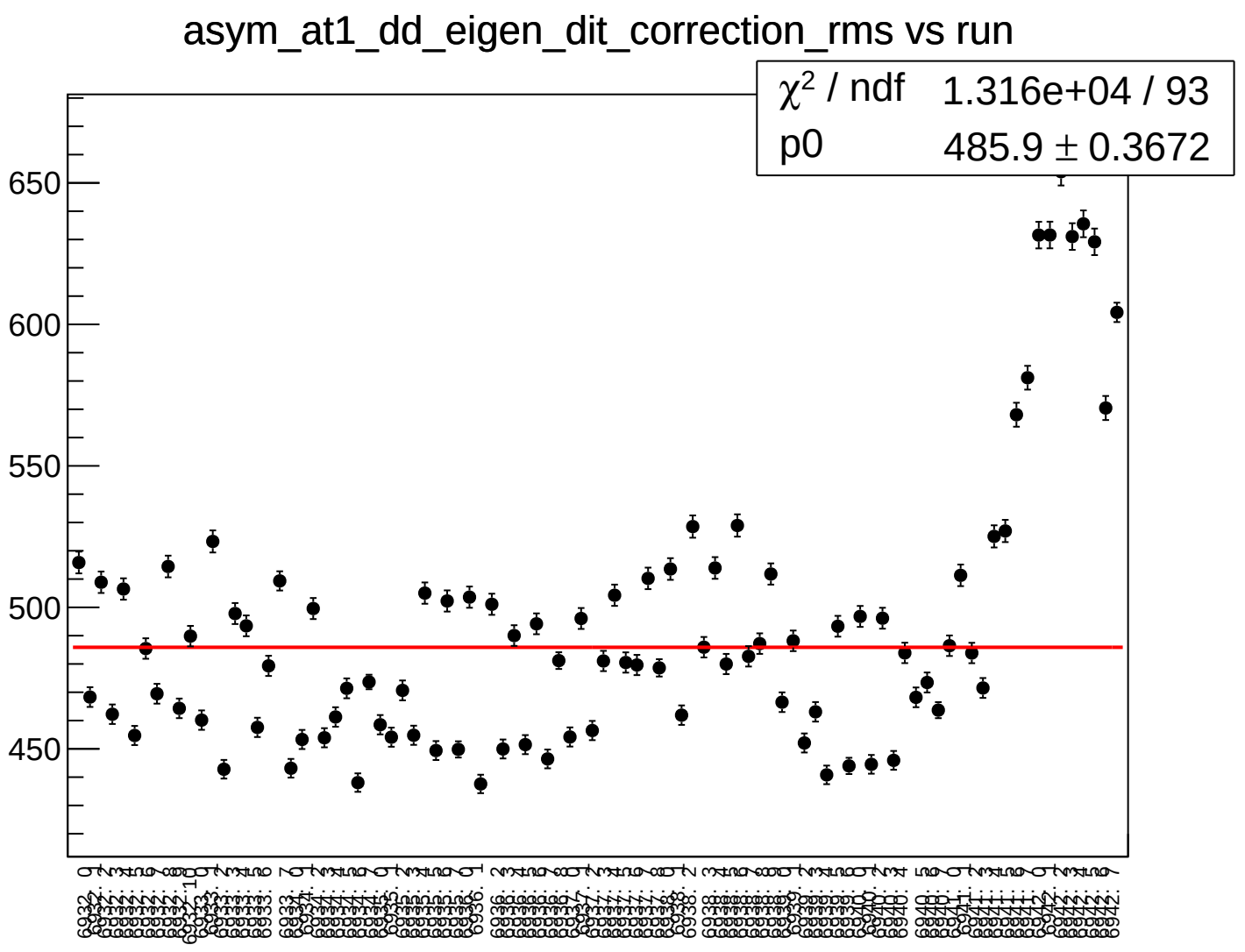

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 95.23 / 93
p0 3071 ± 1927
pull
Entries 94
Mean −3326
Std Dev 0

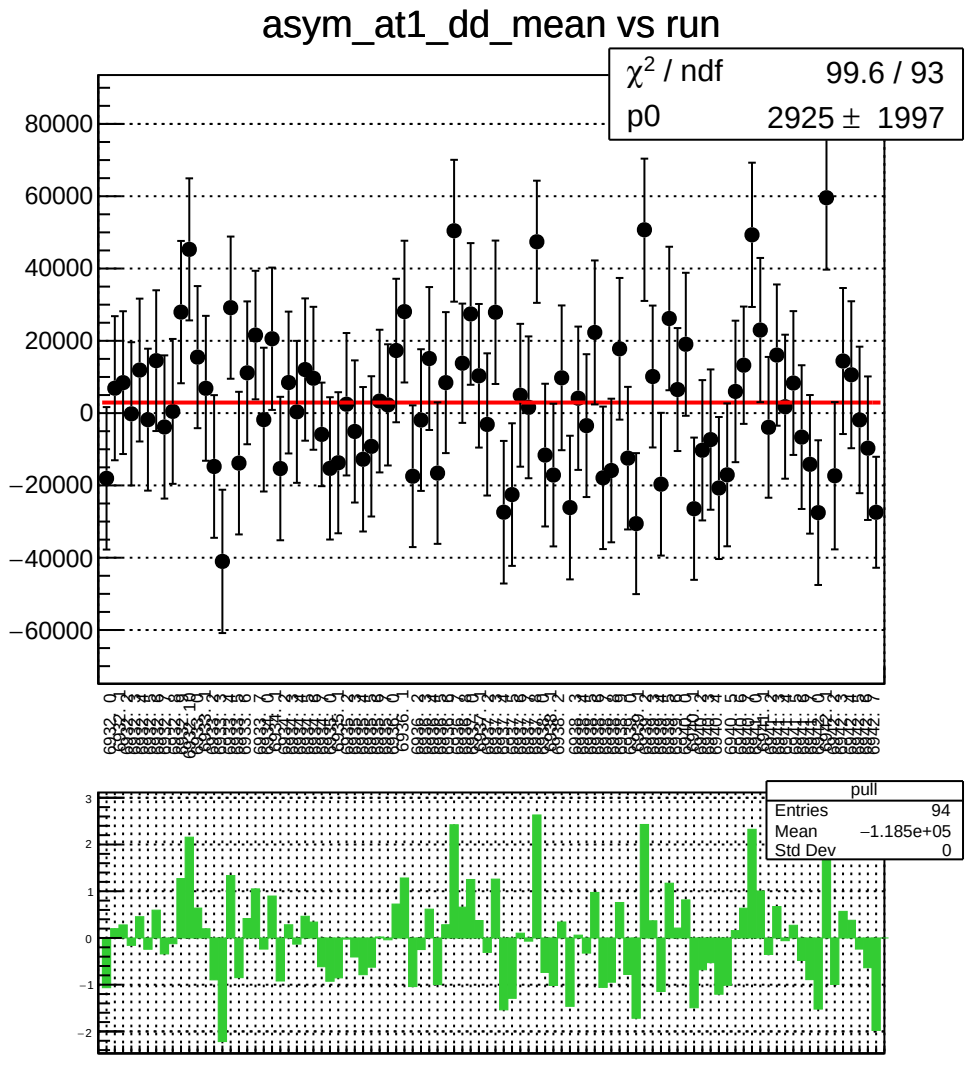

pull1D
Entries 94
Mean 0.0004965
Std Dev 1.007

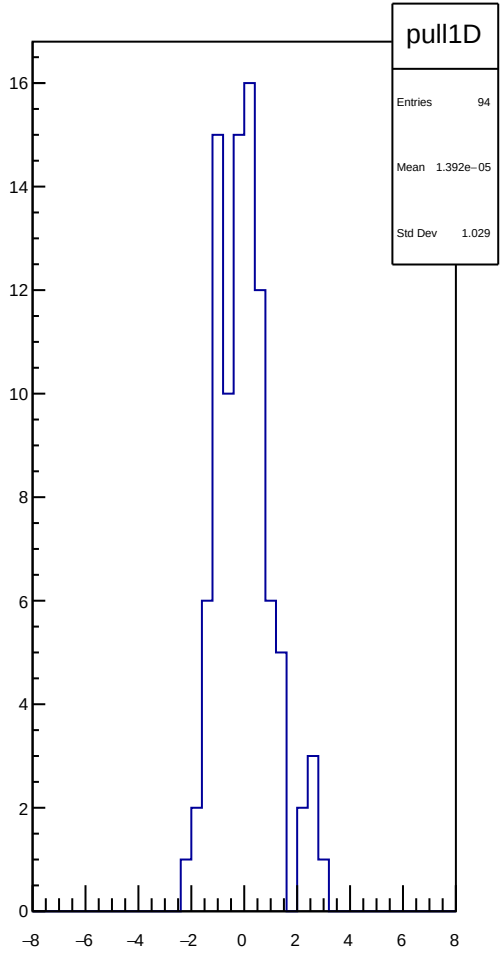

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 79.8 / 93
p0 1809 ± 1.362
1860
1840
1820
1800
1780
1760

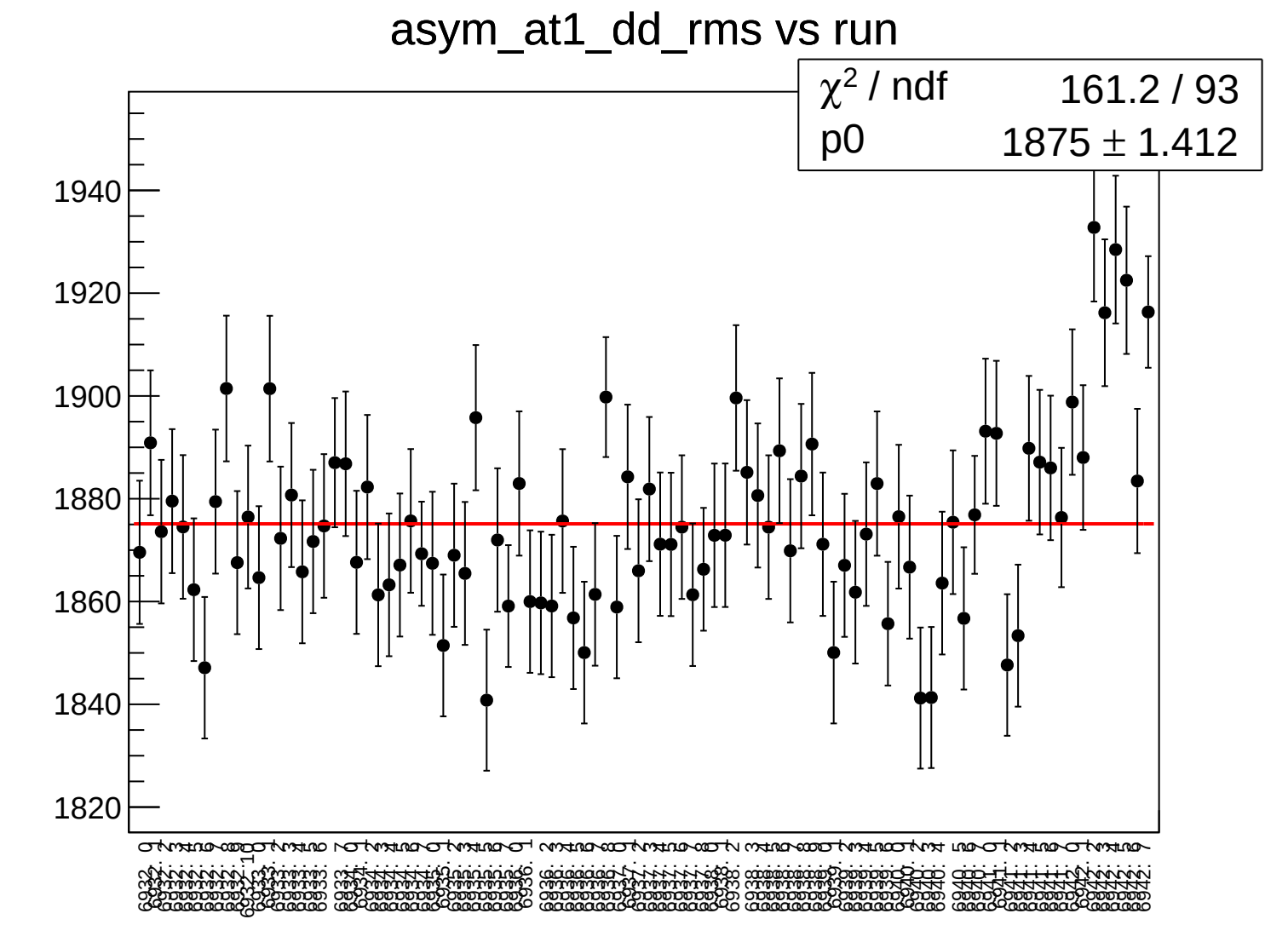

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.79 / 93
p0 190.5 ± 519.3
pull
Entries 94
Mean −494
Std Dev 0

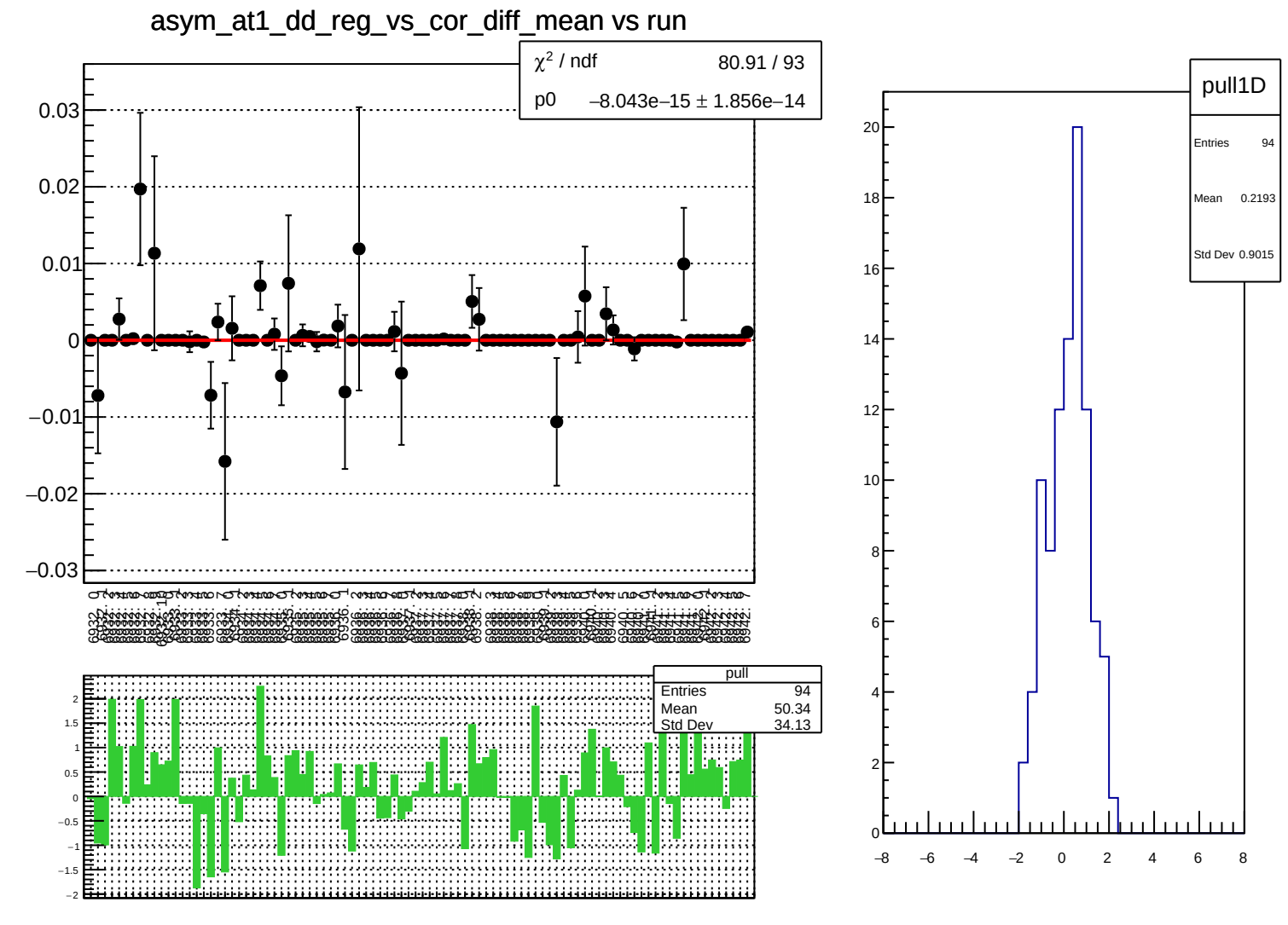

pull1D
Entries 94
Mean −0.001047
Std Dev 0.9155

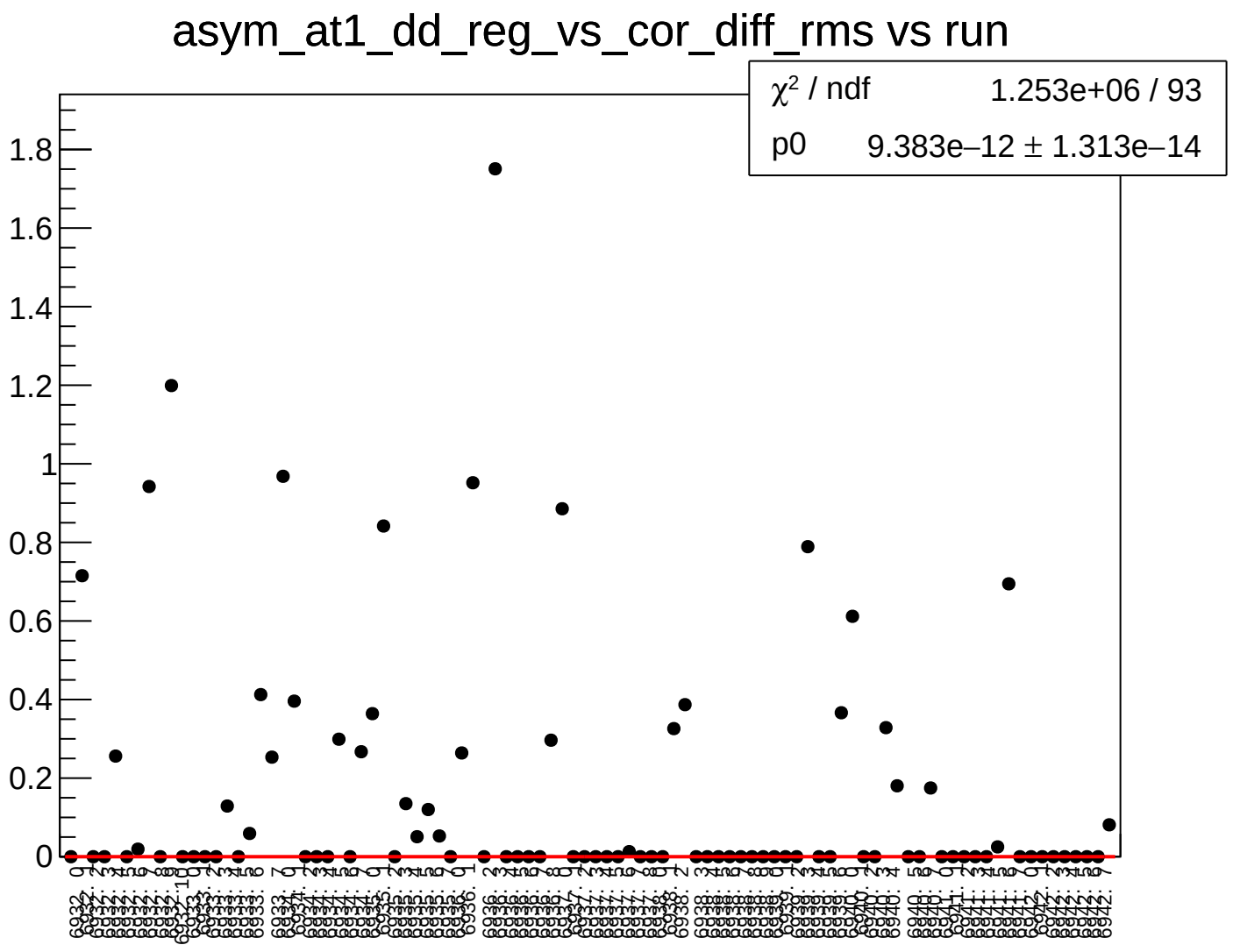

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.316e+04 / 93
p0 485.9 ± 0.3672
650
600
550
500
450

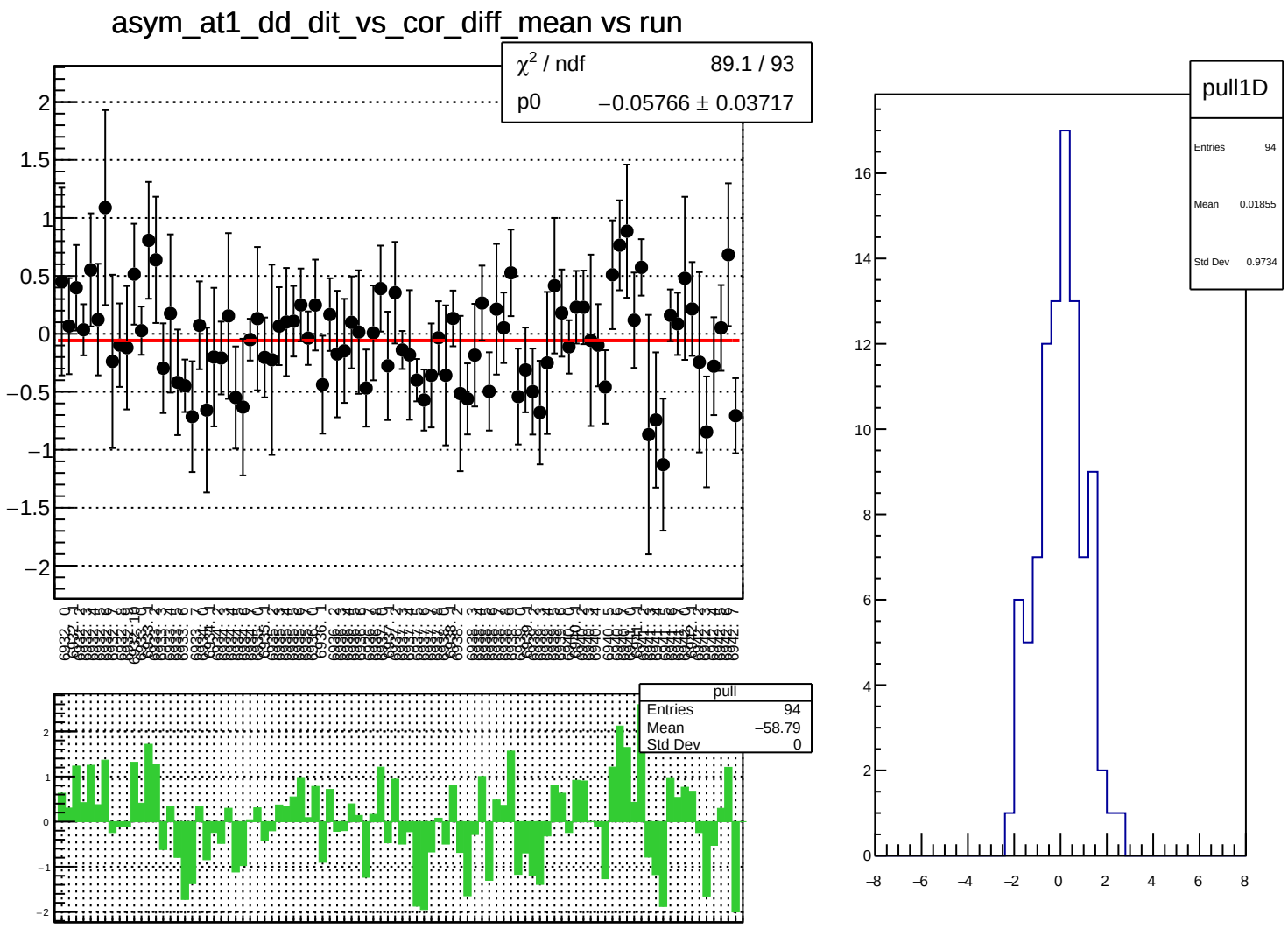

asym_at1_dd_mean vs run
χ² / ndf 99.6 / 93
p0 2925 ± 1997
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1.185e+05
Std Dev 0
3
2
1
0
−1
−2

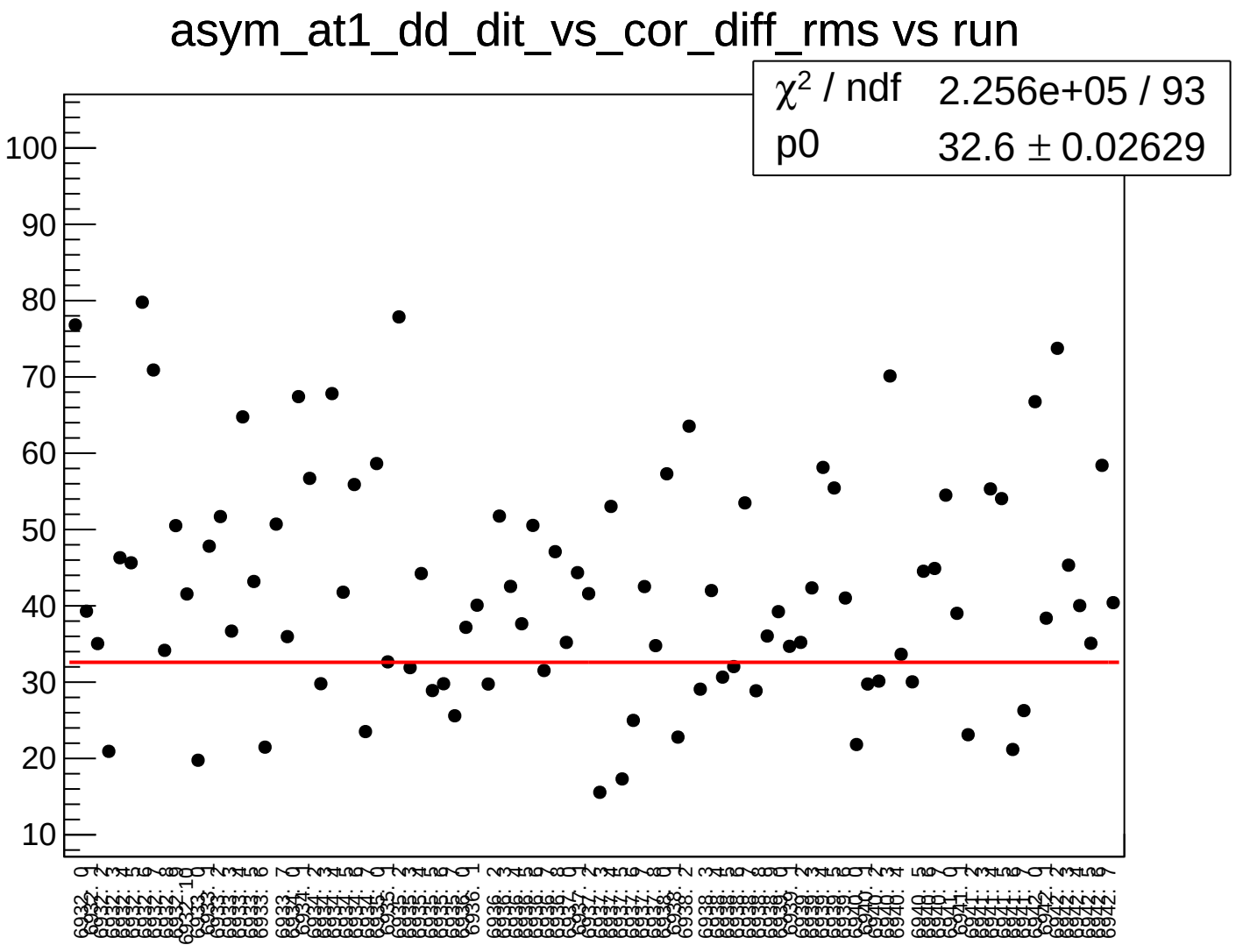

pull1D
Entries 94
Mean 1.392e−05
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

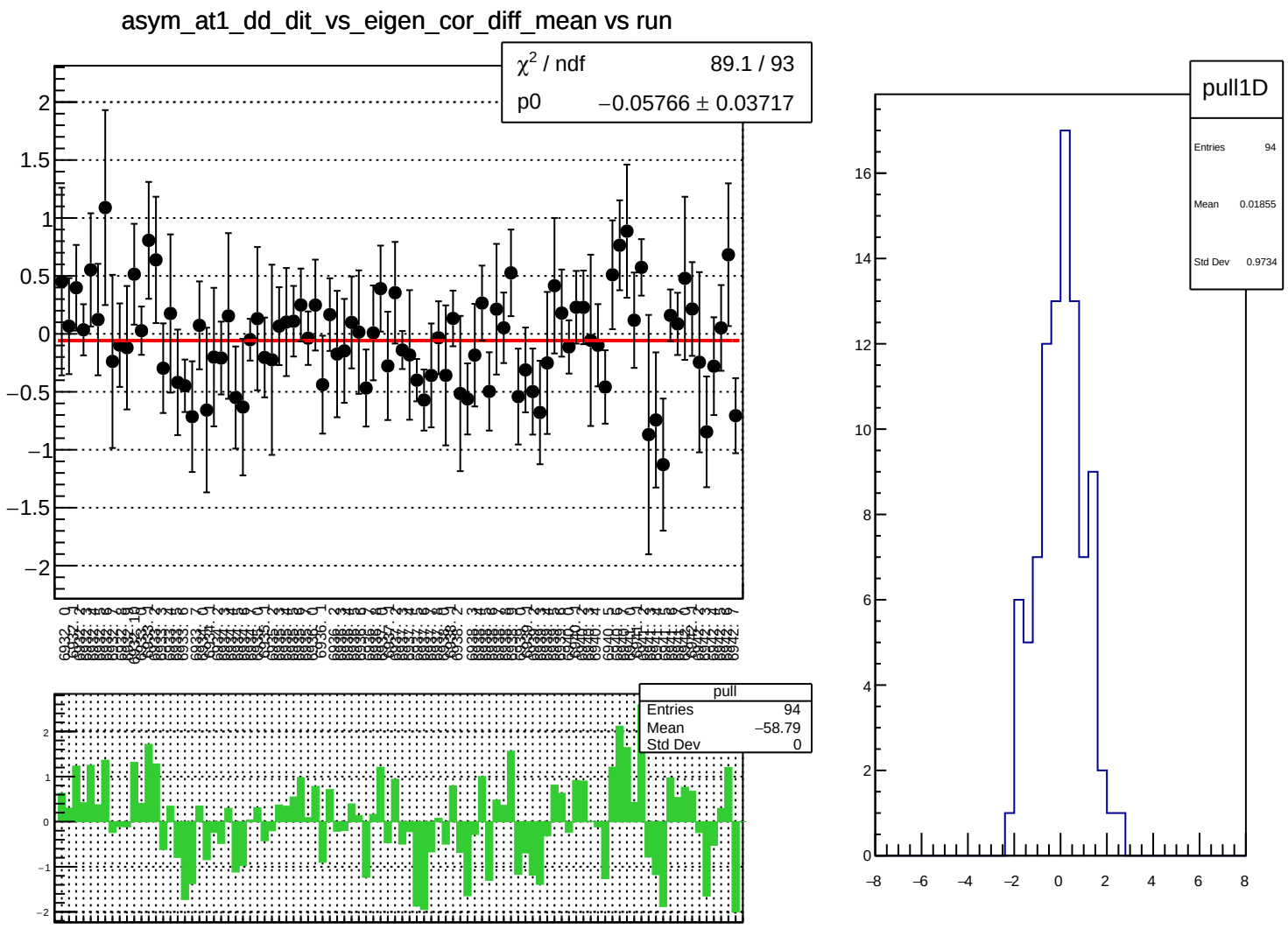

asym_at1_dd_rms vs run
χ² / ndf 161.2 / 93
p0 1875 ± 1.412
1940
1920
1900
1880
1860
1840
1820

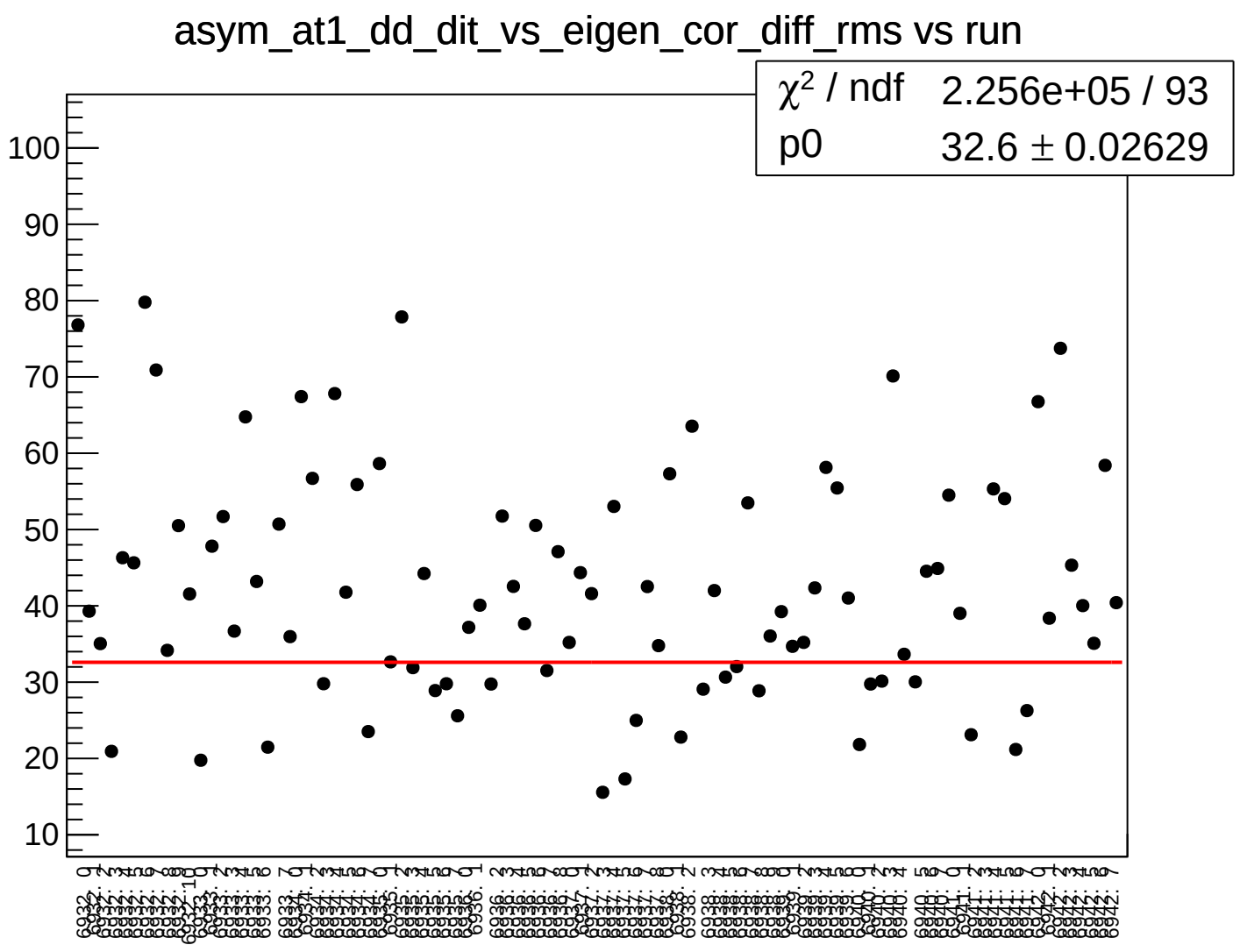

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.91 / 93
p0 −8.043e−15 ± 1.856e−14
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 50.34
Std Dev 34.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.2193
Std Dev 0.9015
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

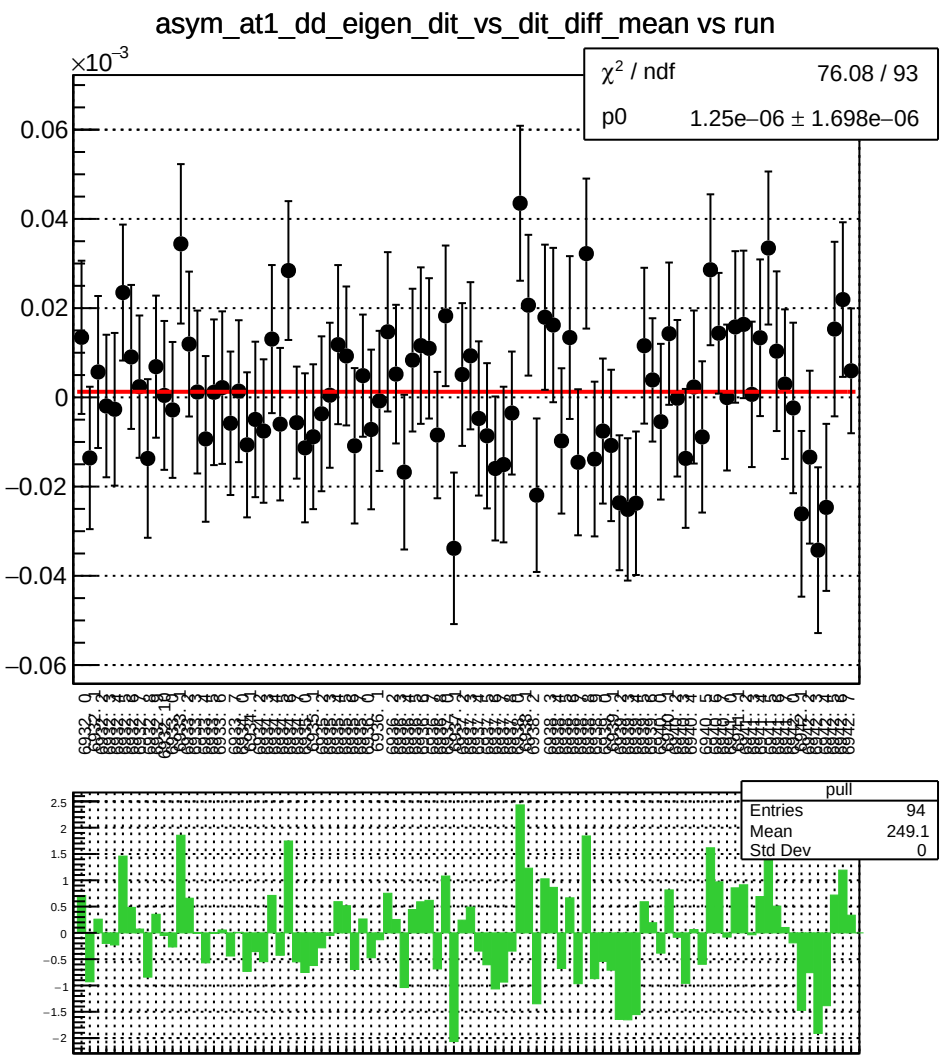

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.253e+06 / 93
p0 9.383e−12 ± 1.313e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

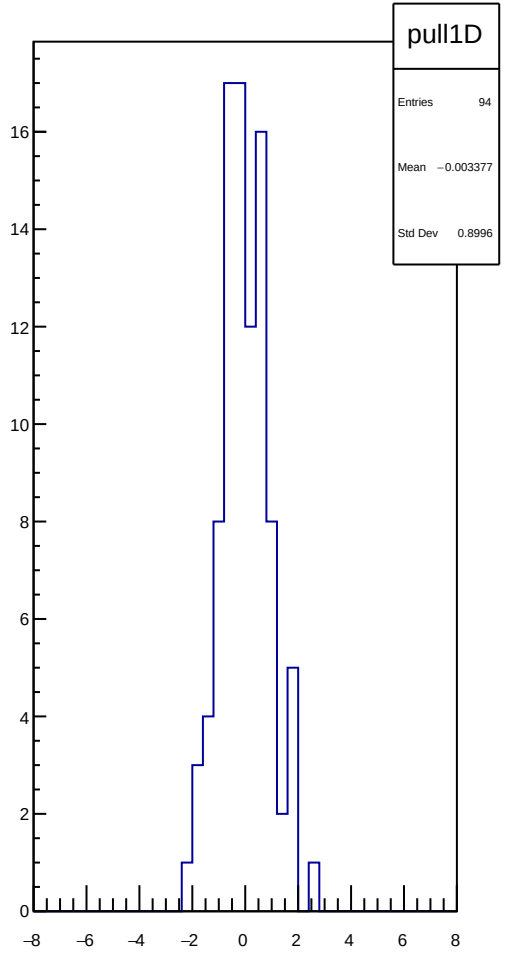

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.1 / 93
p0 −0.05766 ± 0.03717
pull
Entries 94
Mean −58.79
Std Dev 0
pull1D
Entries 94
Mean 0.01855
Std Dev 0.9734

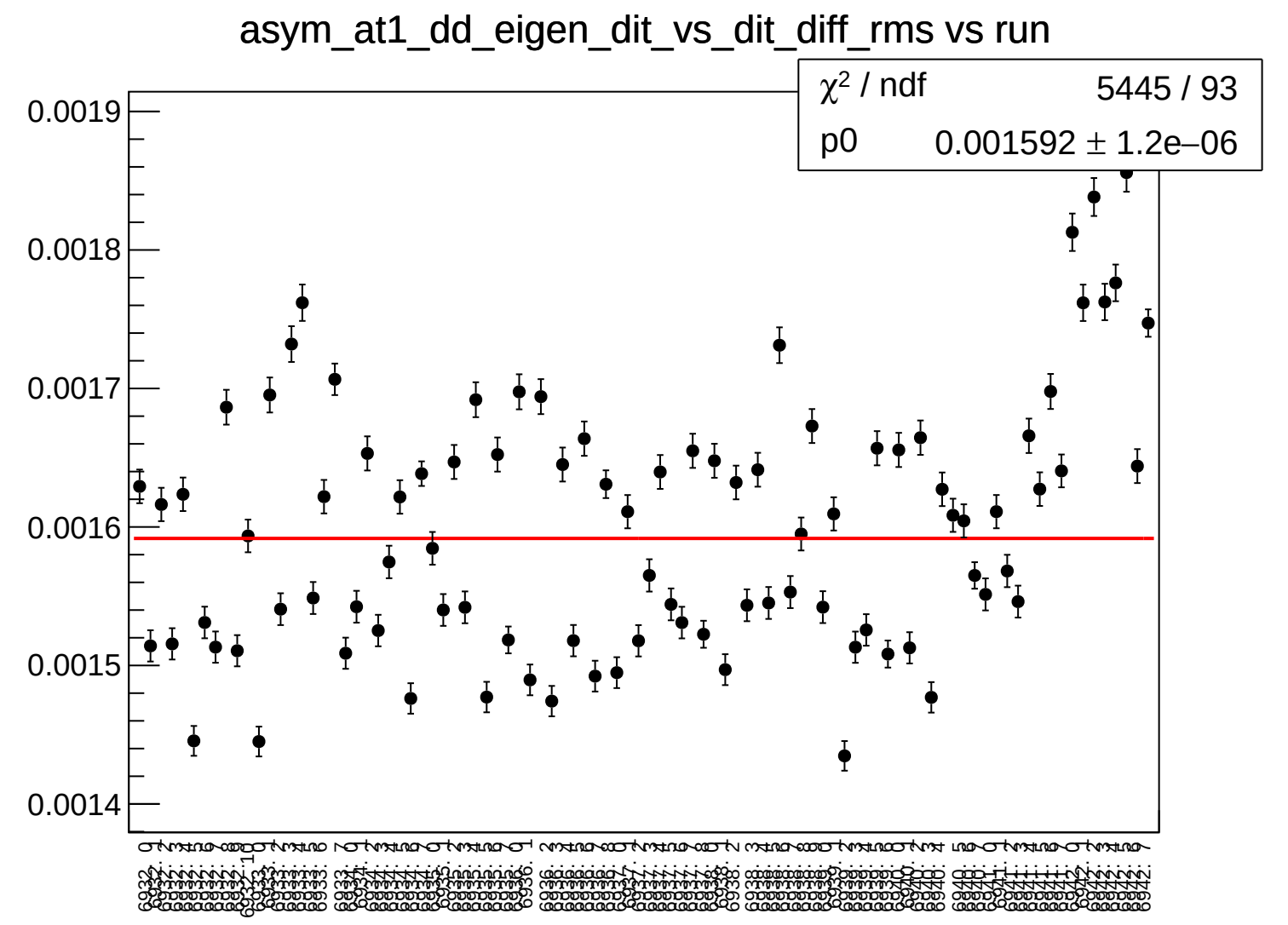

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.256e+05 / 93
p0 32.6 ± 0.02629
100
90
80
70
60
50
40
30
20
10

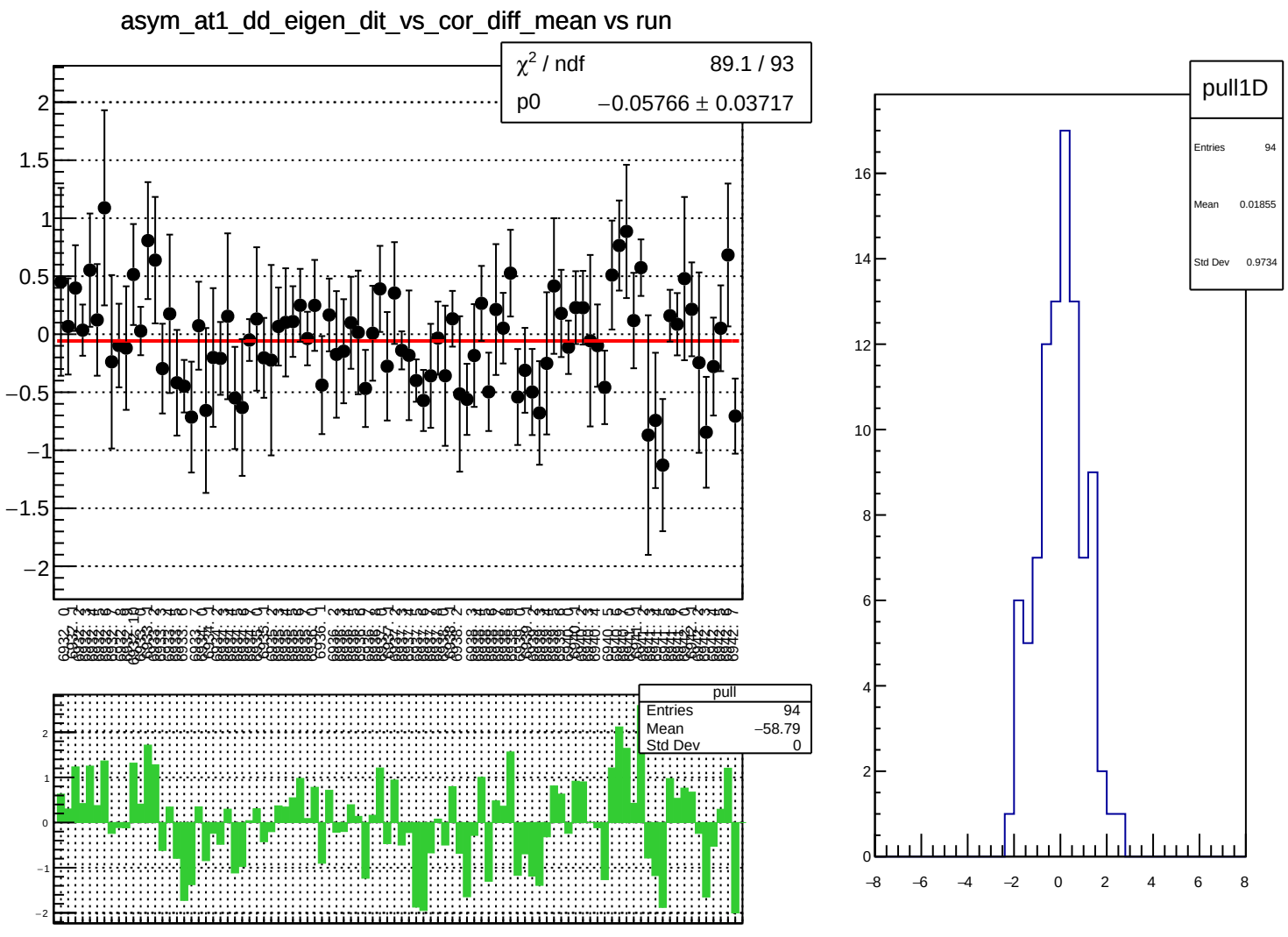

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.1 / 93
p0 −0.05766 ± 0.03717
pull
Entries 94
Mean −58.79
Std Dev 0
pull1D
Entries 94
Mean 0.01855
Std Dev 0.9734

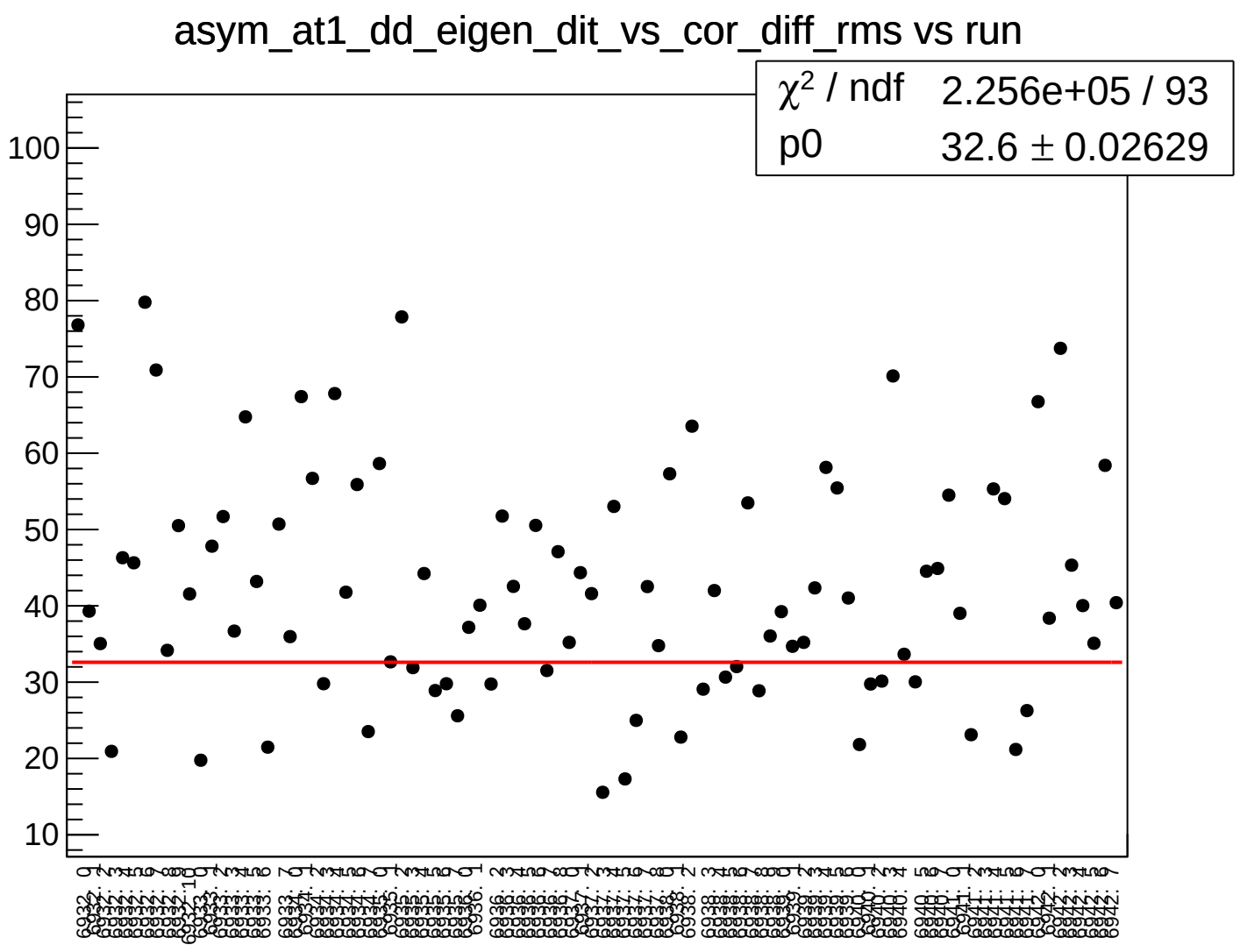

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.256e+05 / 93
p0 32.6 ± 0.02629
100
90
80
70
60
50
40
30
20
10

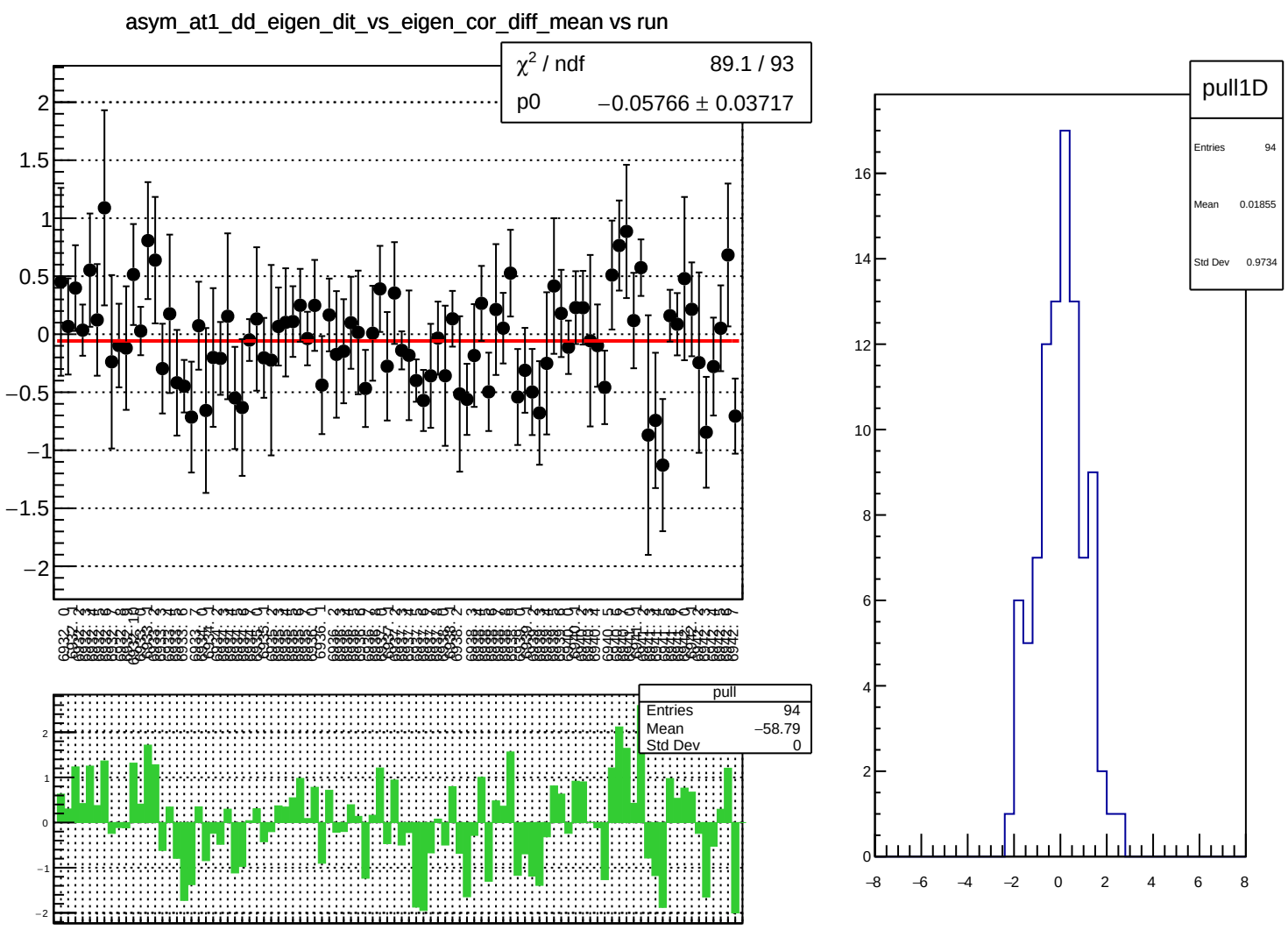

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 76.08 / 93
p0 1.25e−06 ± 1.698e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 249.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

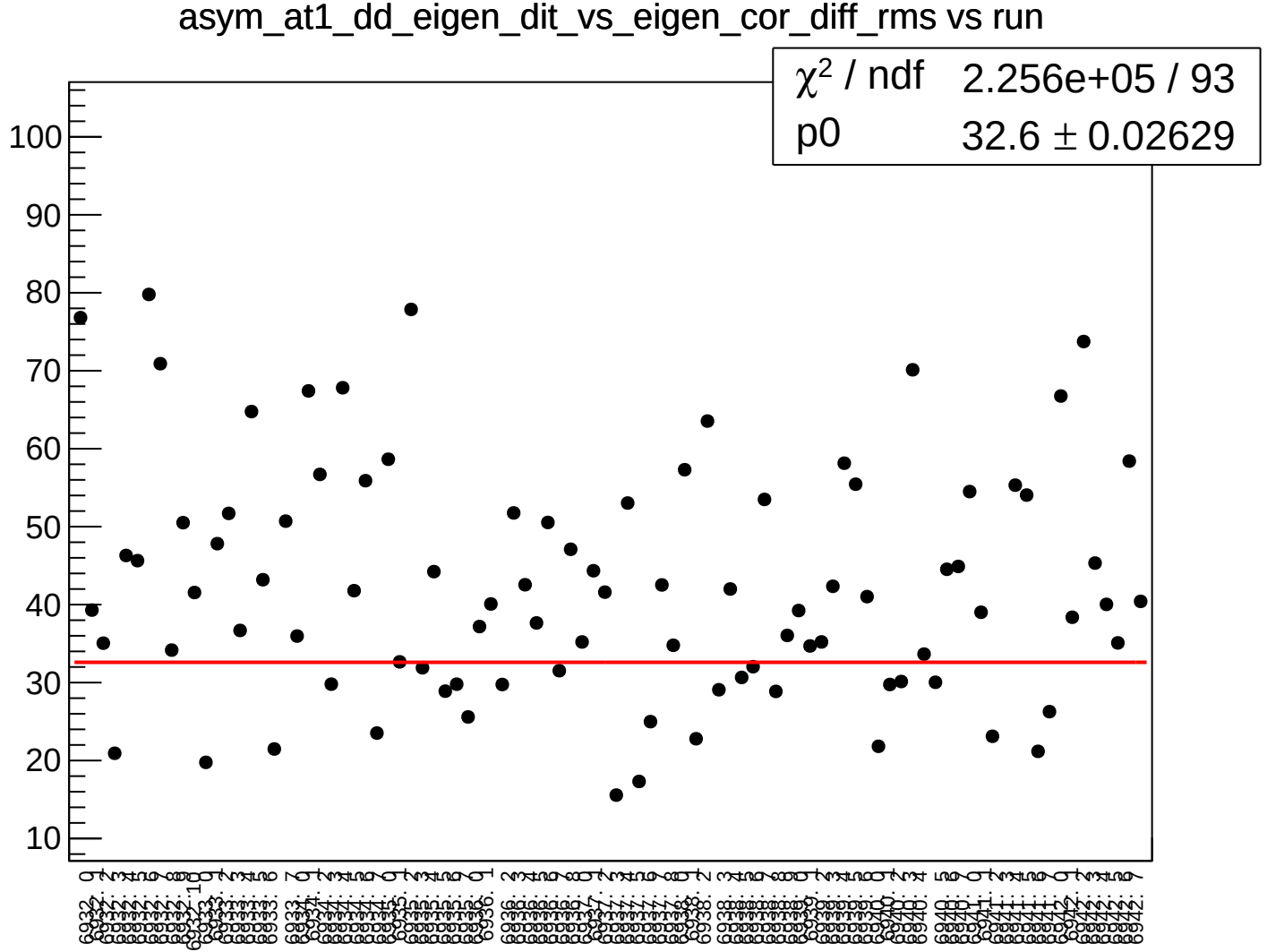

pull1D
Entries 94
Mean −0.003377
Std Dev 0.8996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

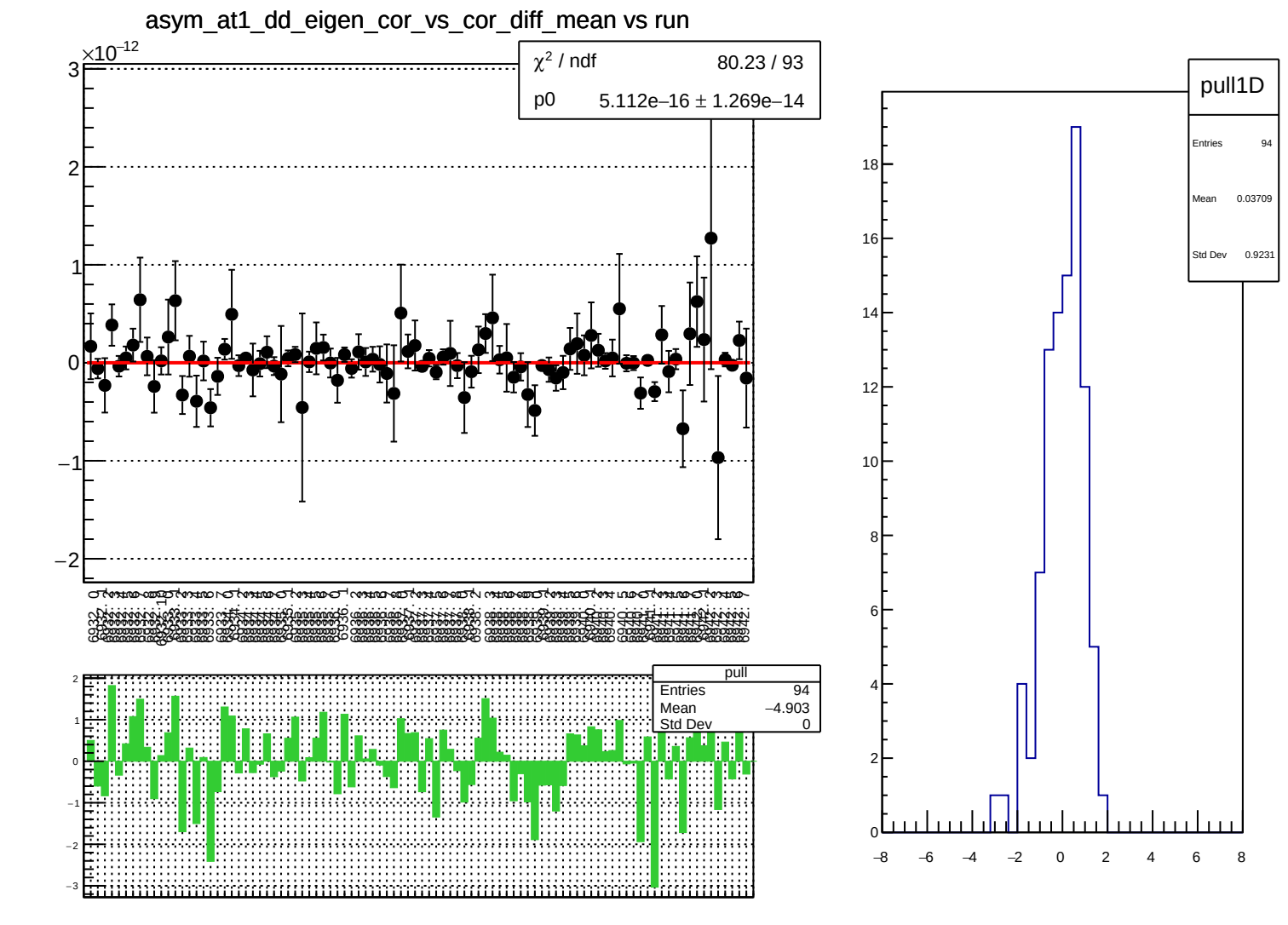

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5445 / 93
p0 0.001592 ± 1.2e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

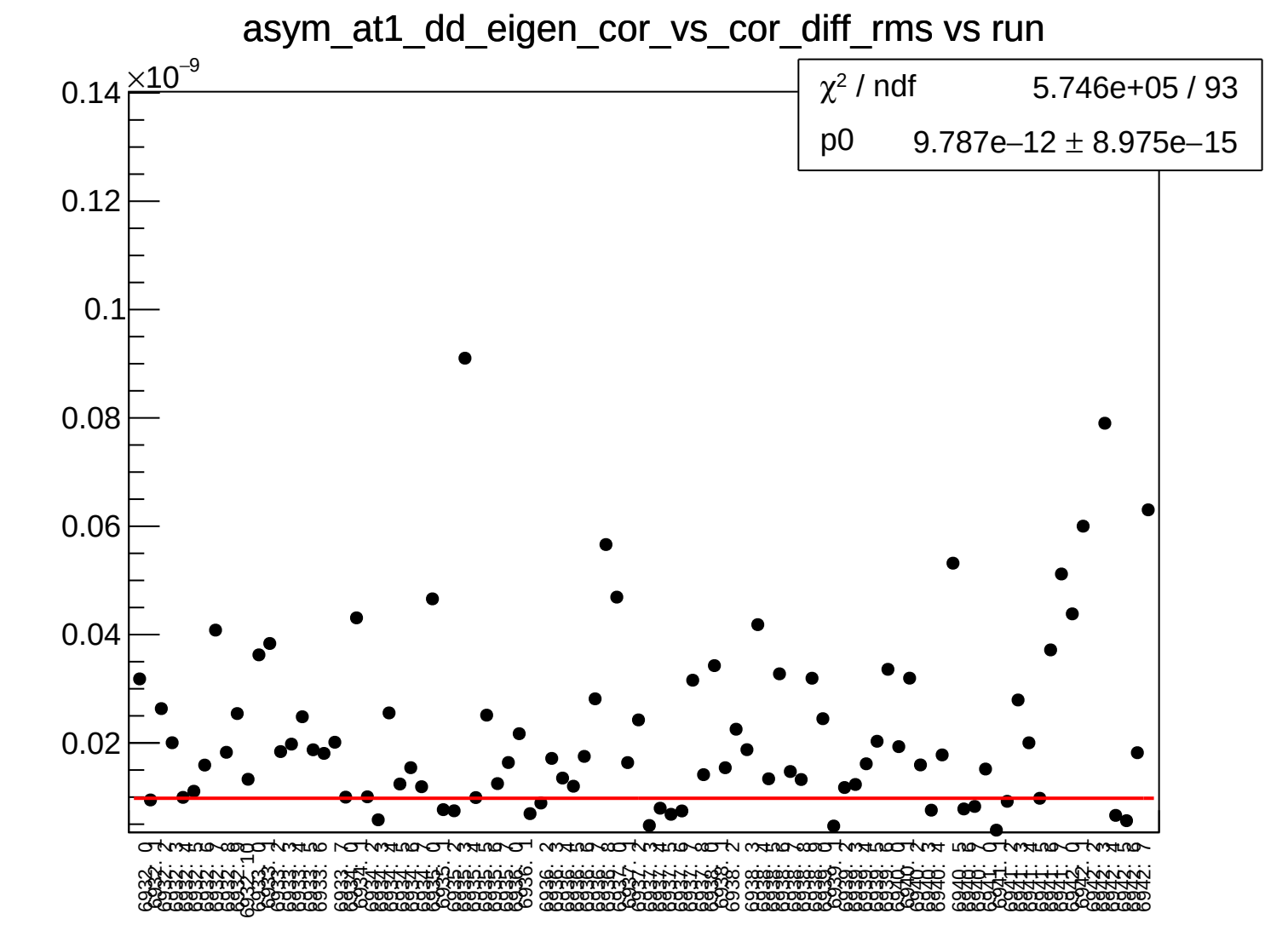

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.1 / 93
p0 −0.05766 ± 0.03717
pull
Entries 94
Mean −58.79
Std Dev 0
pull1D
Entries 94
Mean 0.01855
Std Dev 0.9734

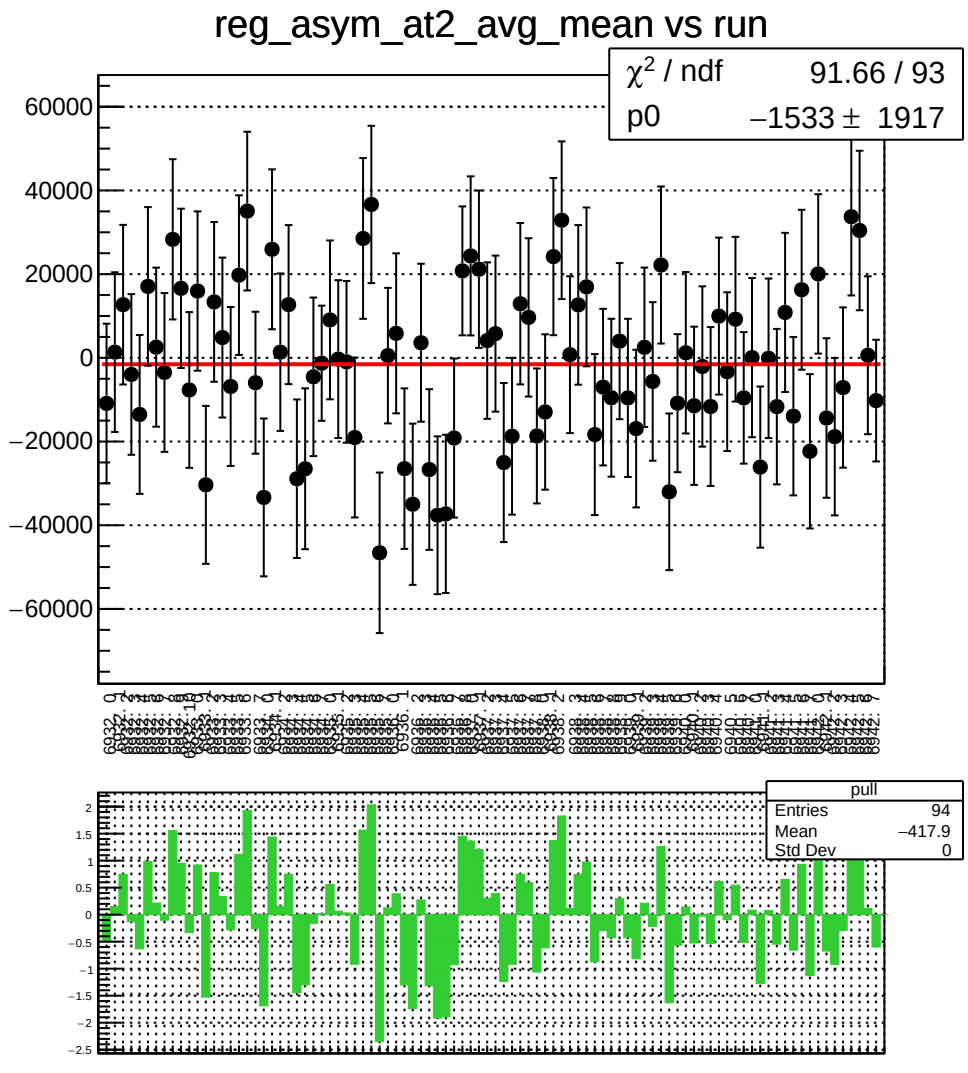

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.256e+05 / 93
p0 32.6 ± 0.02629
100
90
80
70
60
50
40
30
20
10

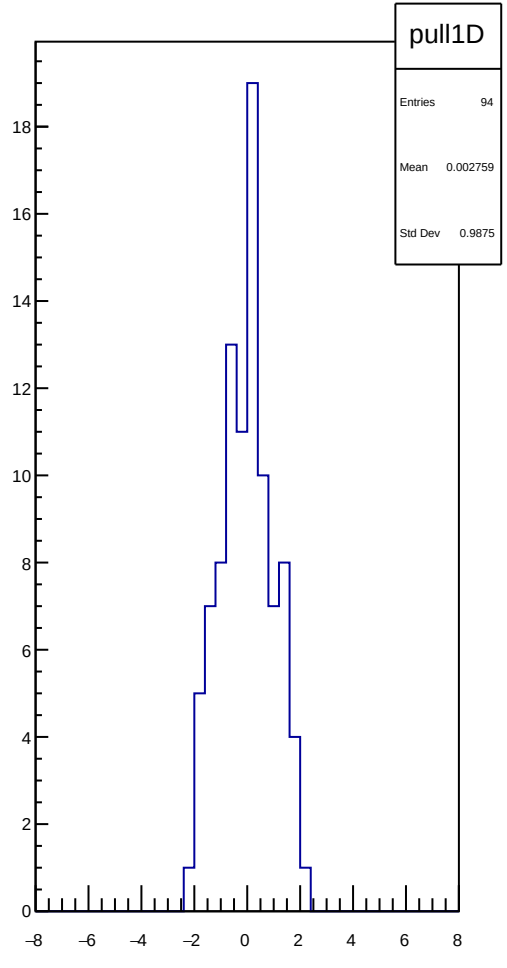

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.1 / 93
p0 −0.05766 ± 0.03717
pull
Entries 94
Mean −58.79
Std Dev 0
pull1D
Entries 94
Mean 0.01855
Std Dev 0.9734

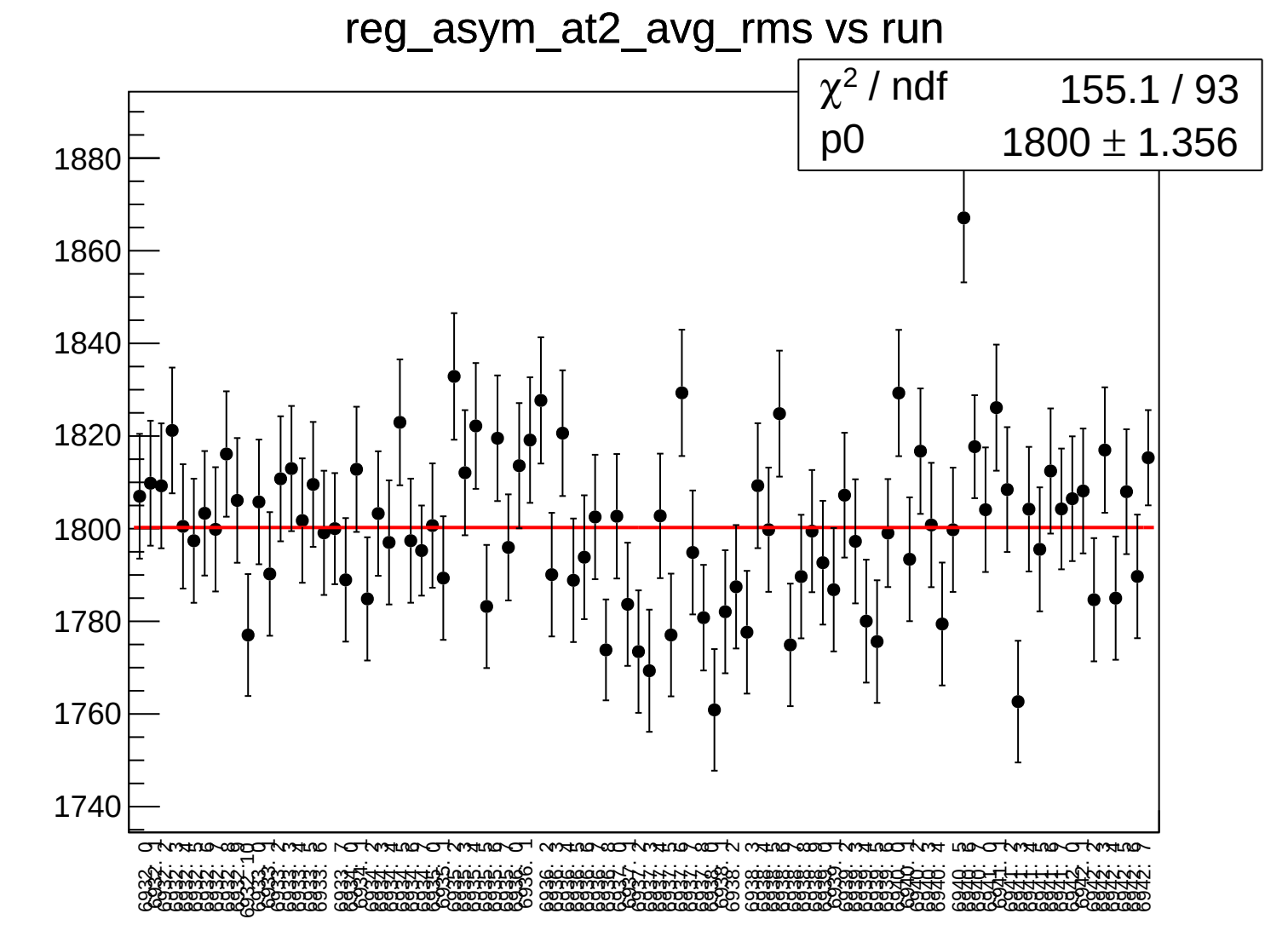

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.256e+05 / 93
p0 32.6 ± 0.02629
100
90
80
70
60
50
40
30
20
10

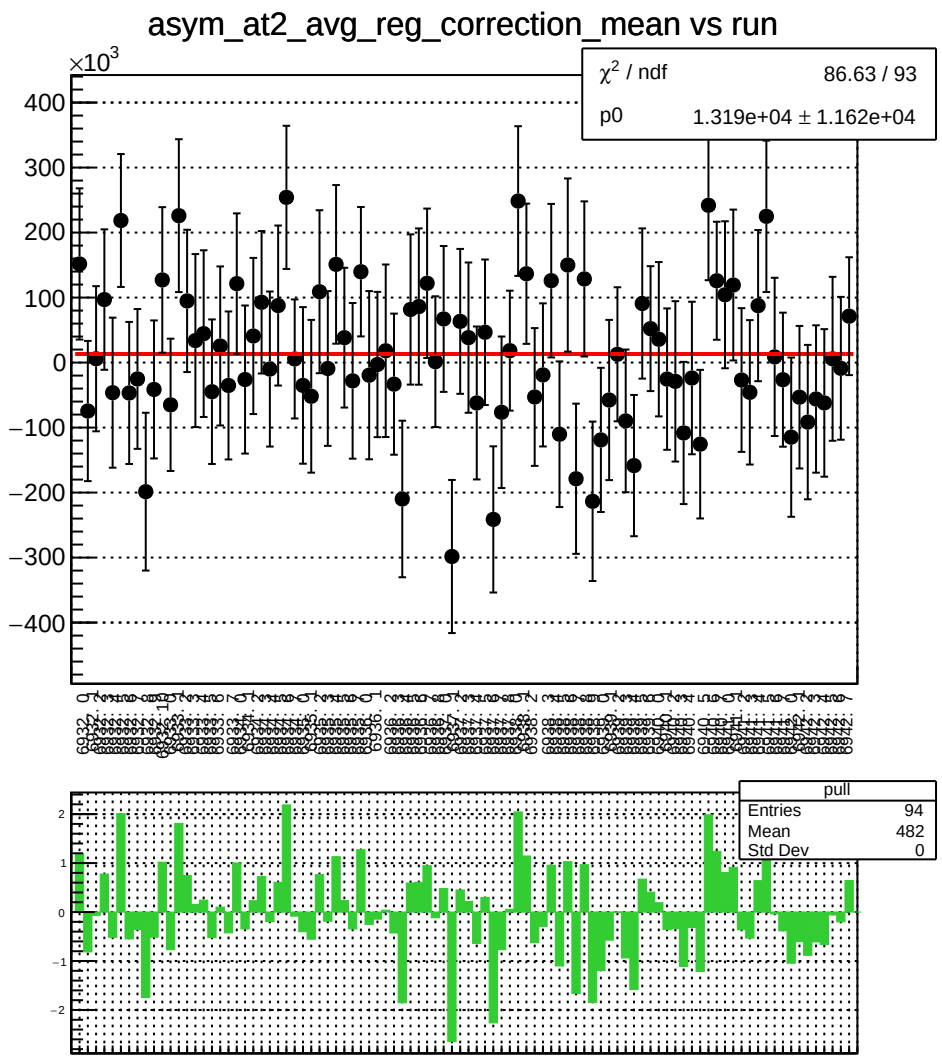

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.23 / 93
p0 5.112e−16 ± 1.269e−14
pull
Entries 94
Mean −4.903
Std Dev 0
pull1D
Entries 94
Mean 0.03709
Std Dev 0.9231

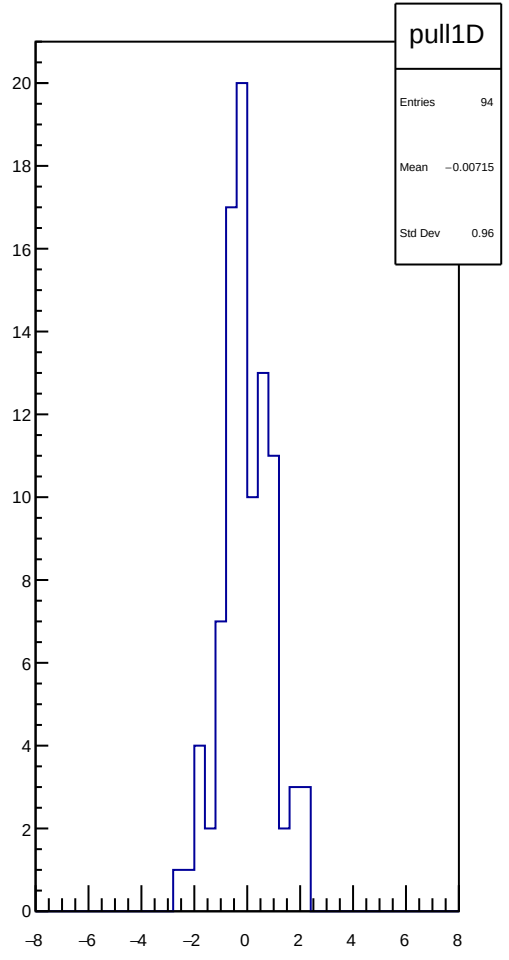

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.746e+05 / 93
p0 9.787e−12 ± 8.975e−15

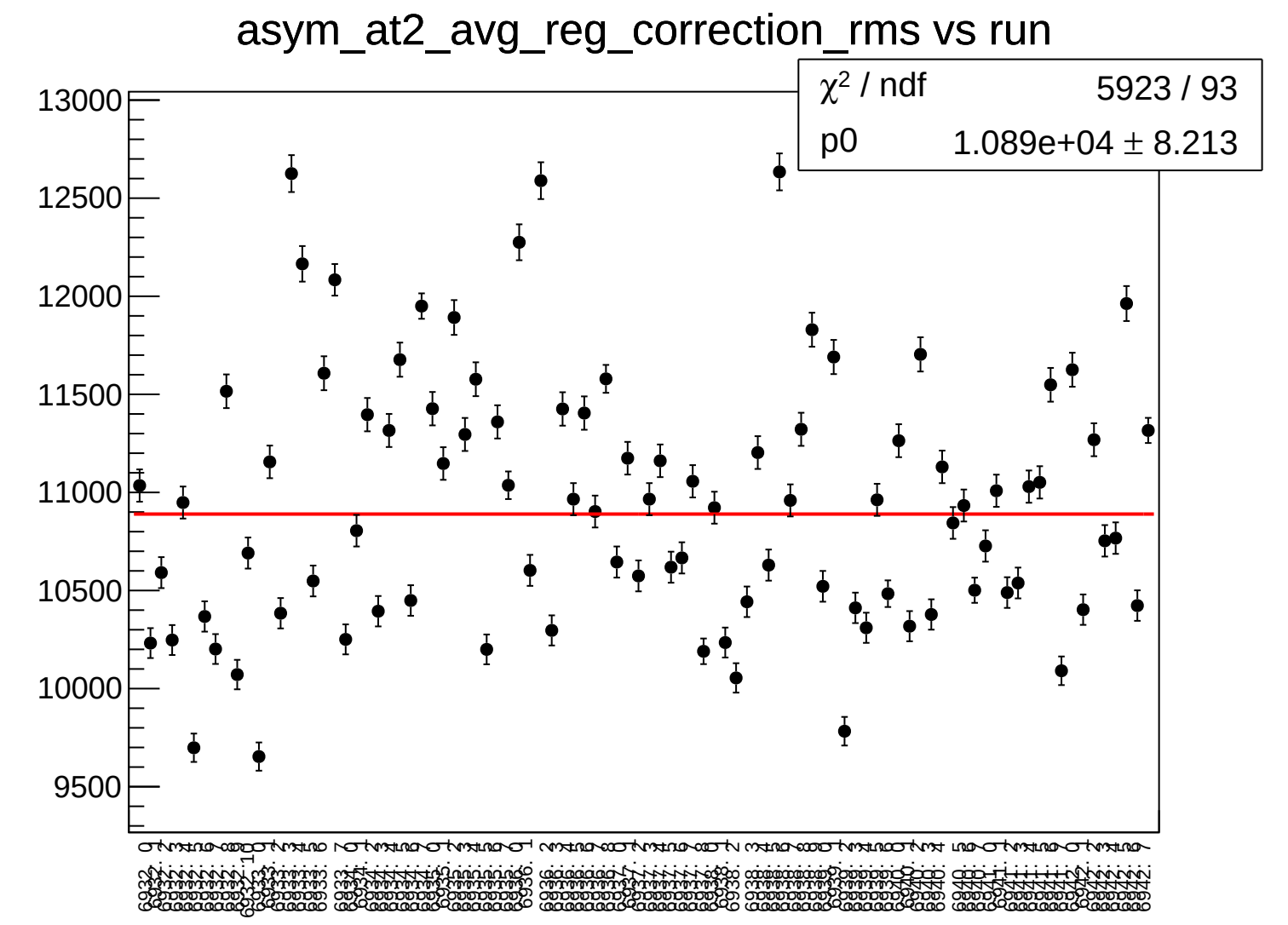

reg_asym_at2_avg_mean vs run
χ² / ndf 91.66 / 93
p0 −1533 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −417.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

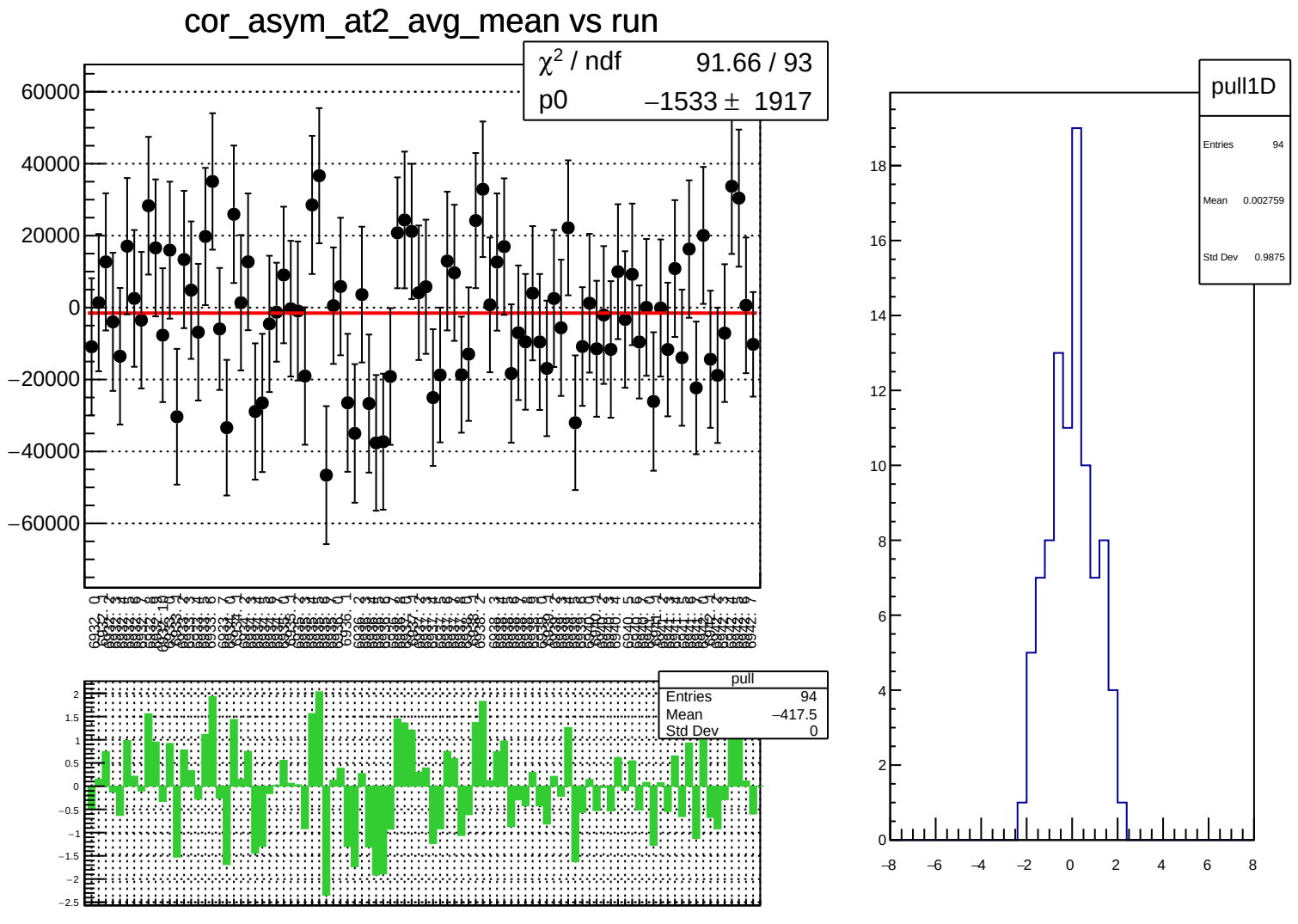

pull1D
Entries 94
Mean 0.002759
Std Dev 0.9875
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

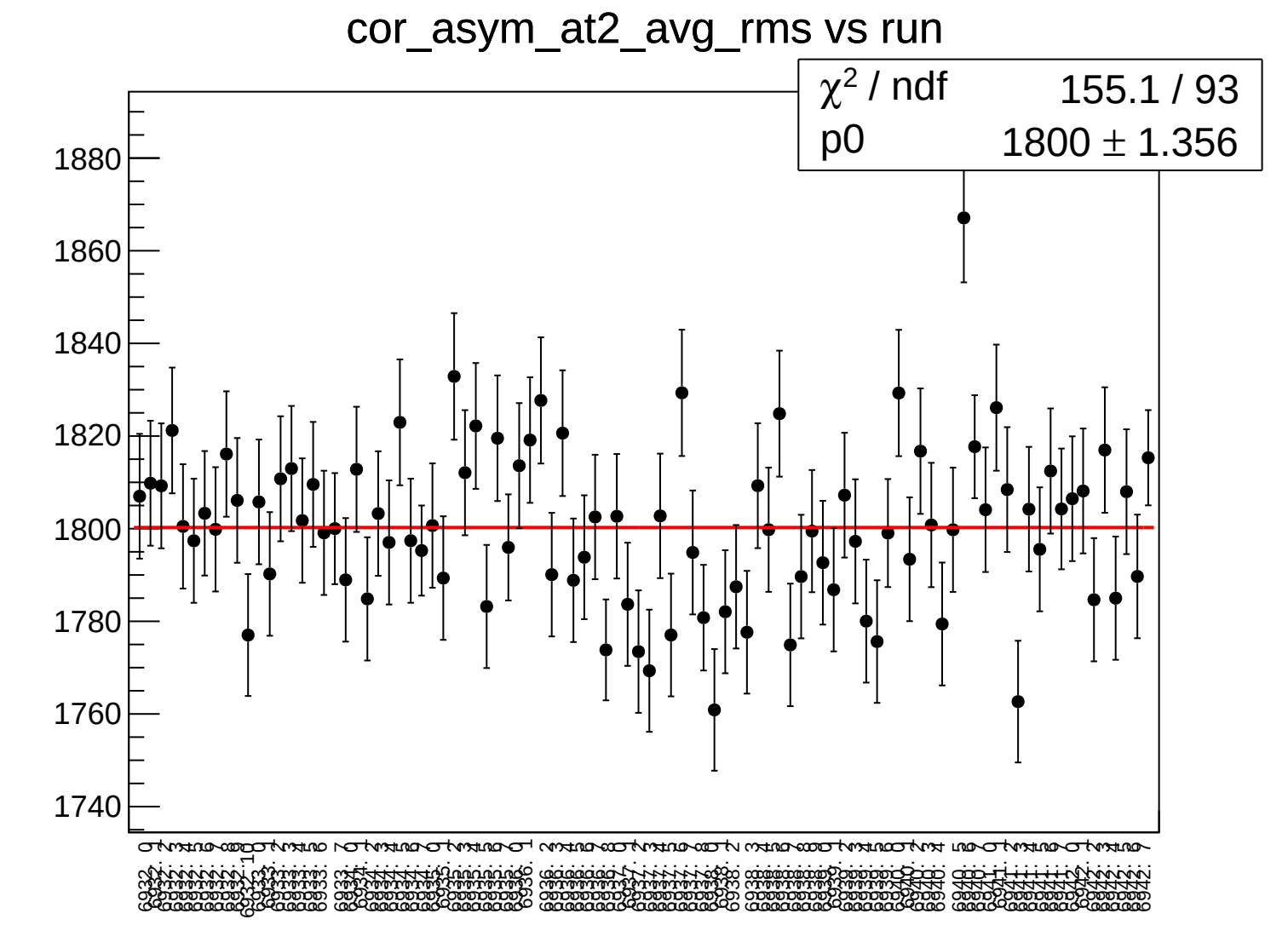

reg_asym_at2_avg_rms vs run
χ^2 / ndf 155.1 / 93
p0 1800 ± 1.356
1880
1860
1840
1820
1800
1780
1760
1740

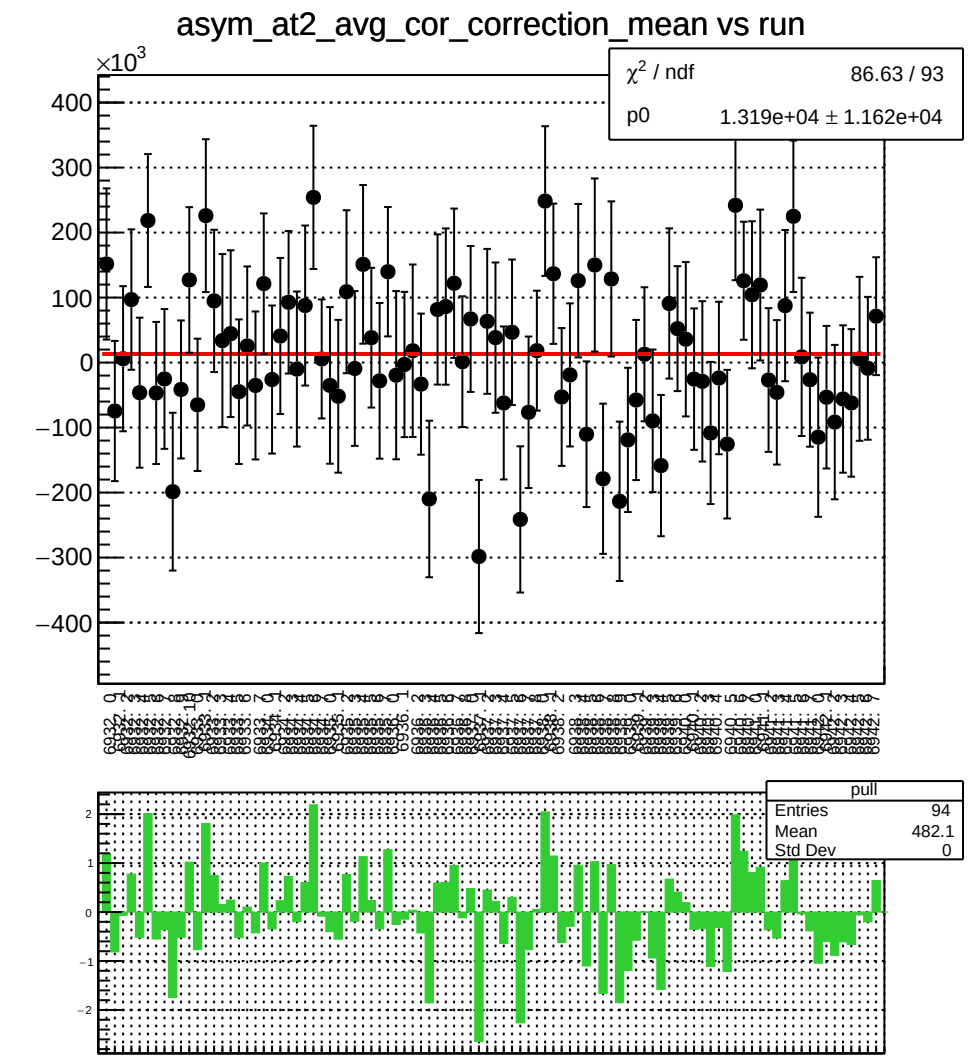

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.63 / 93
p0 1.319e+04 ± 1.162e+04
pull
Entries 94
Mean 482
Std Dev 0

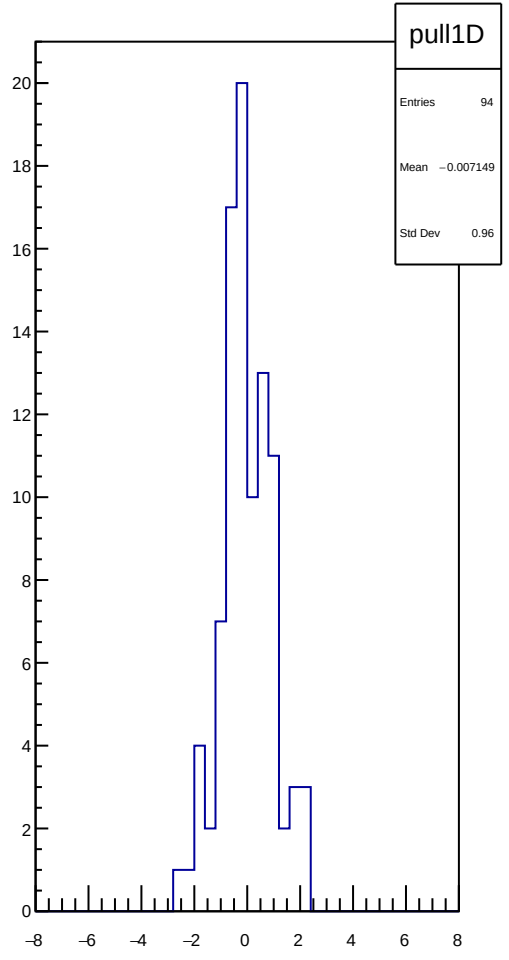

pull1D
Entries 94
Mean −0.00715
Std Dev 0.96

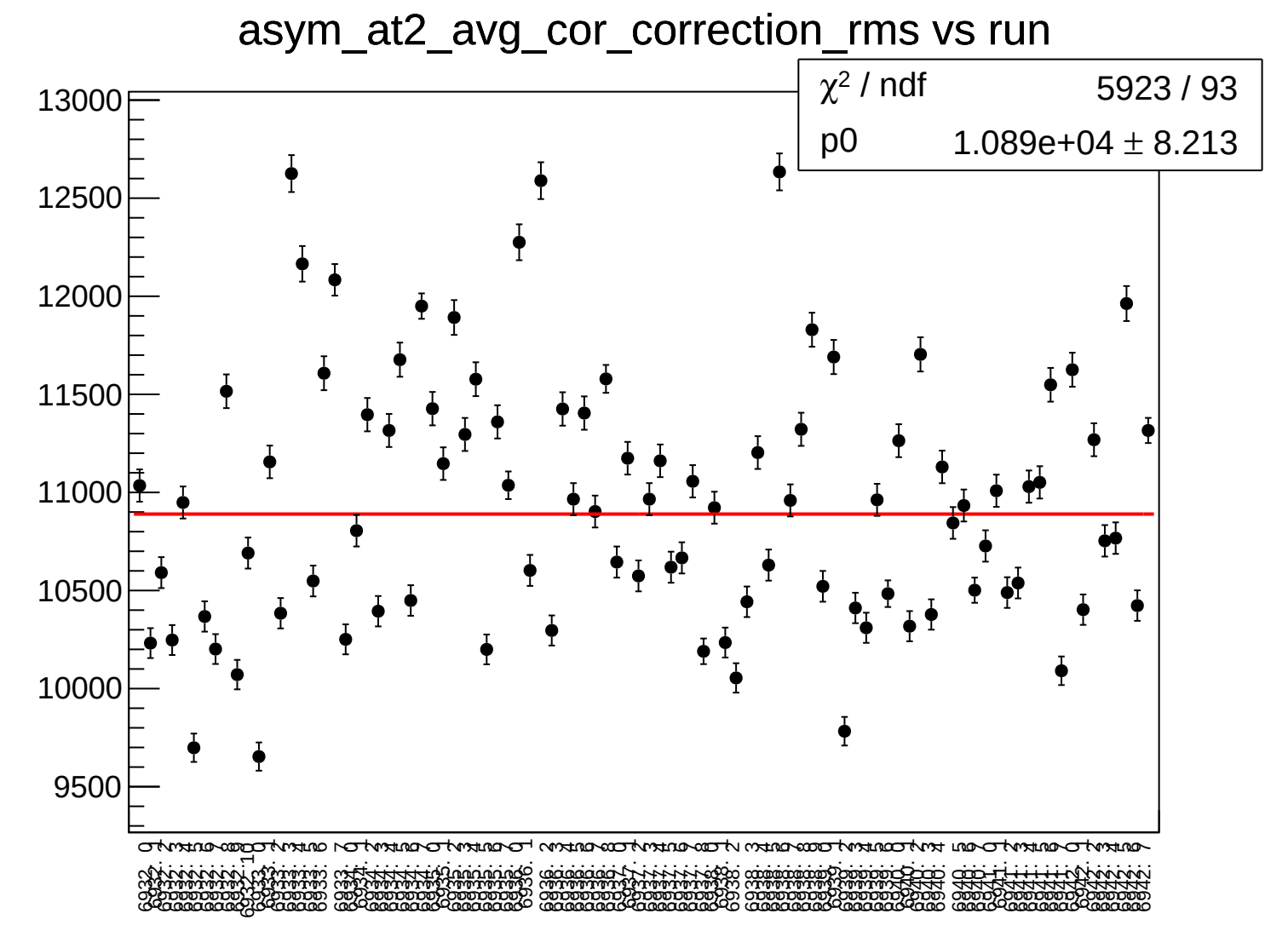

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 5923 / 93
p0 1.089e+04 ± 8.213
13000
12500
12000
11500
11000
10500
10000
9500

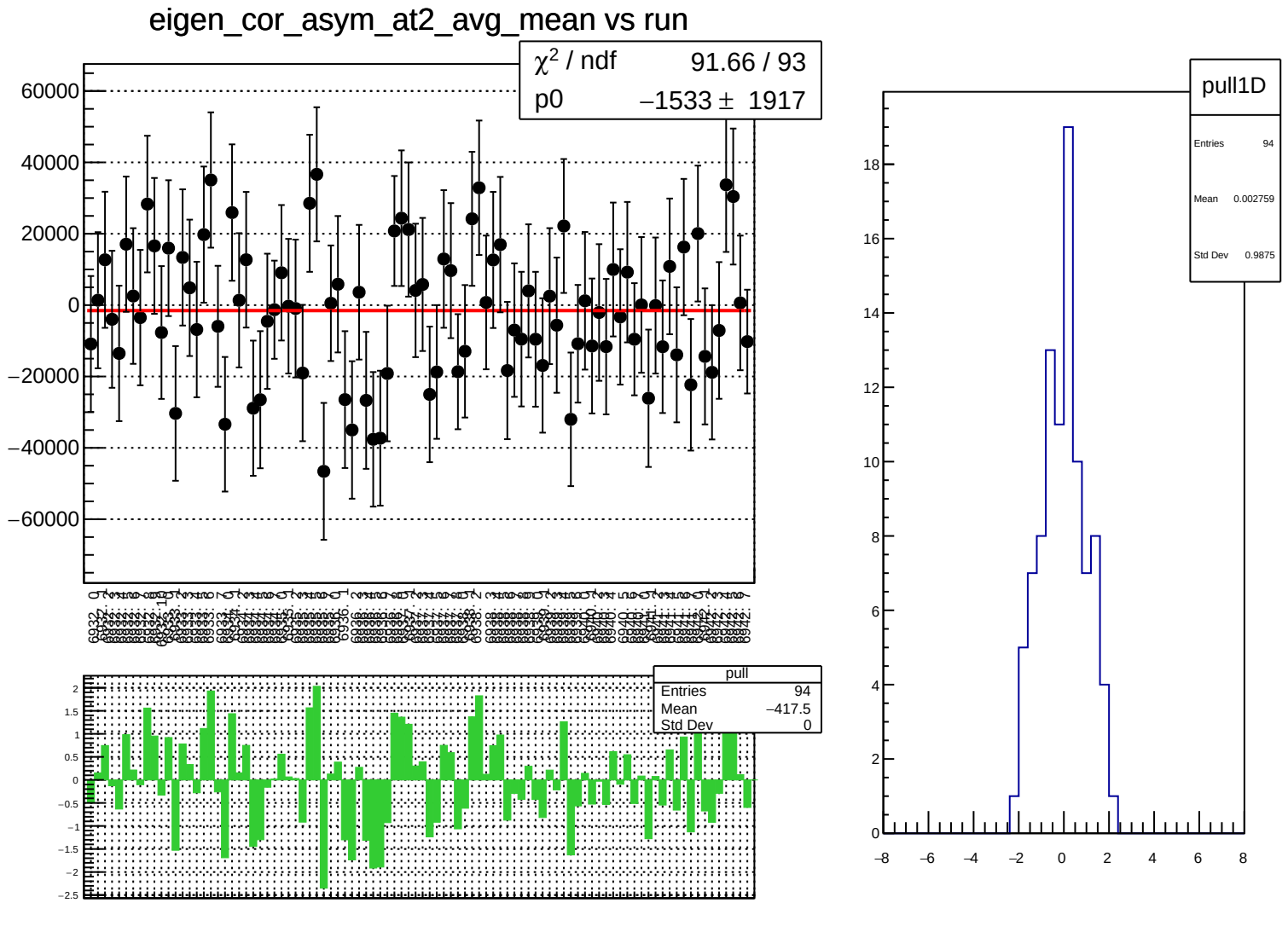

cor_asym_at2_avg_mean vs run
χ² / ndf 91.66 / 93
p0 −1533 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −417.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.002759
Std Dev 0.9875
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

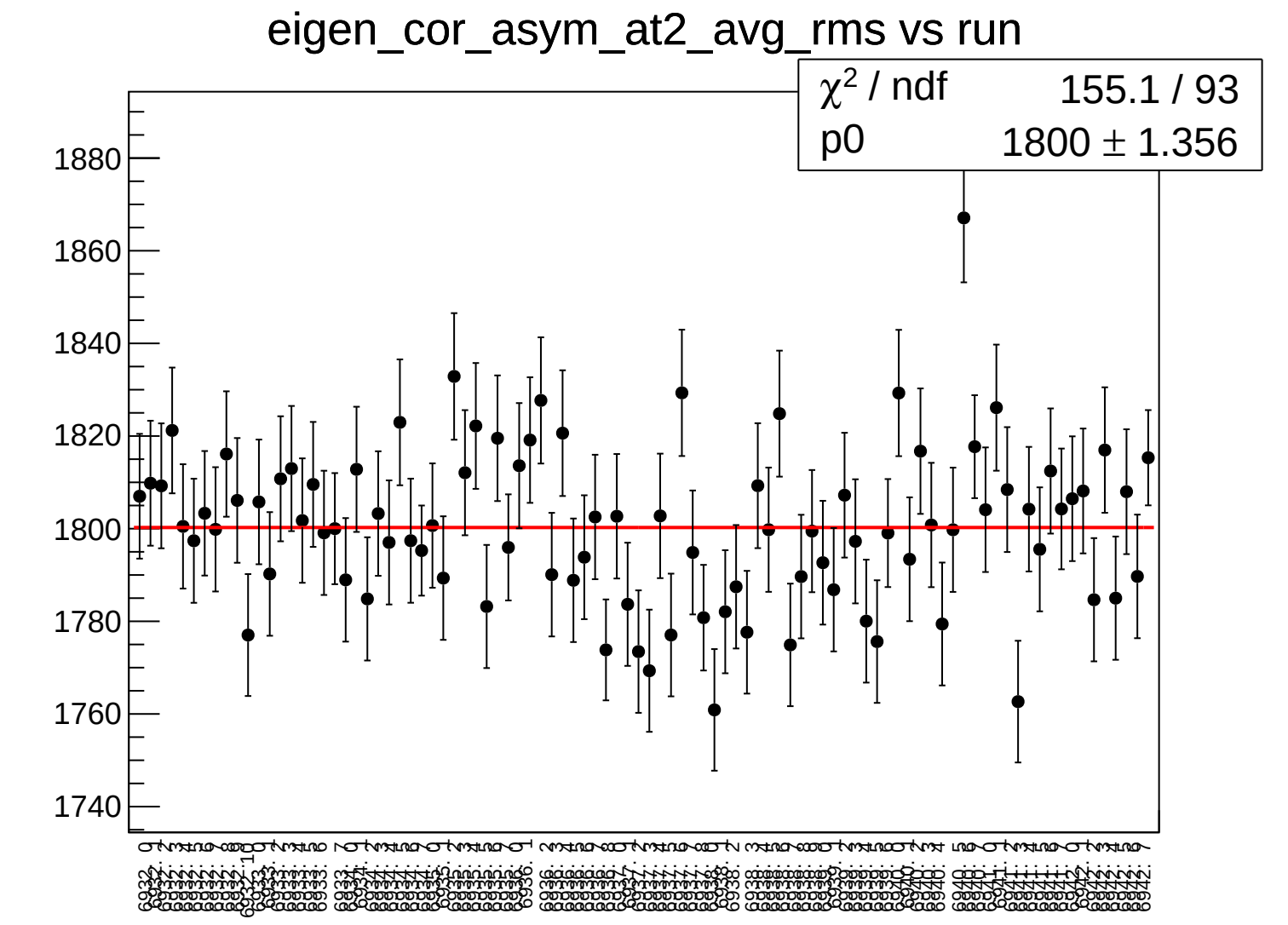

cor_asym_at2_avg_rms vs run
χ^2 / ndf 155.1 / 93
p0 1800 ± 1.356
1880
1860
1840
1820
1800
1780
1760
1740

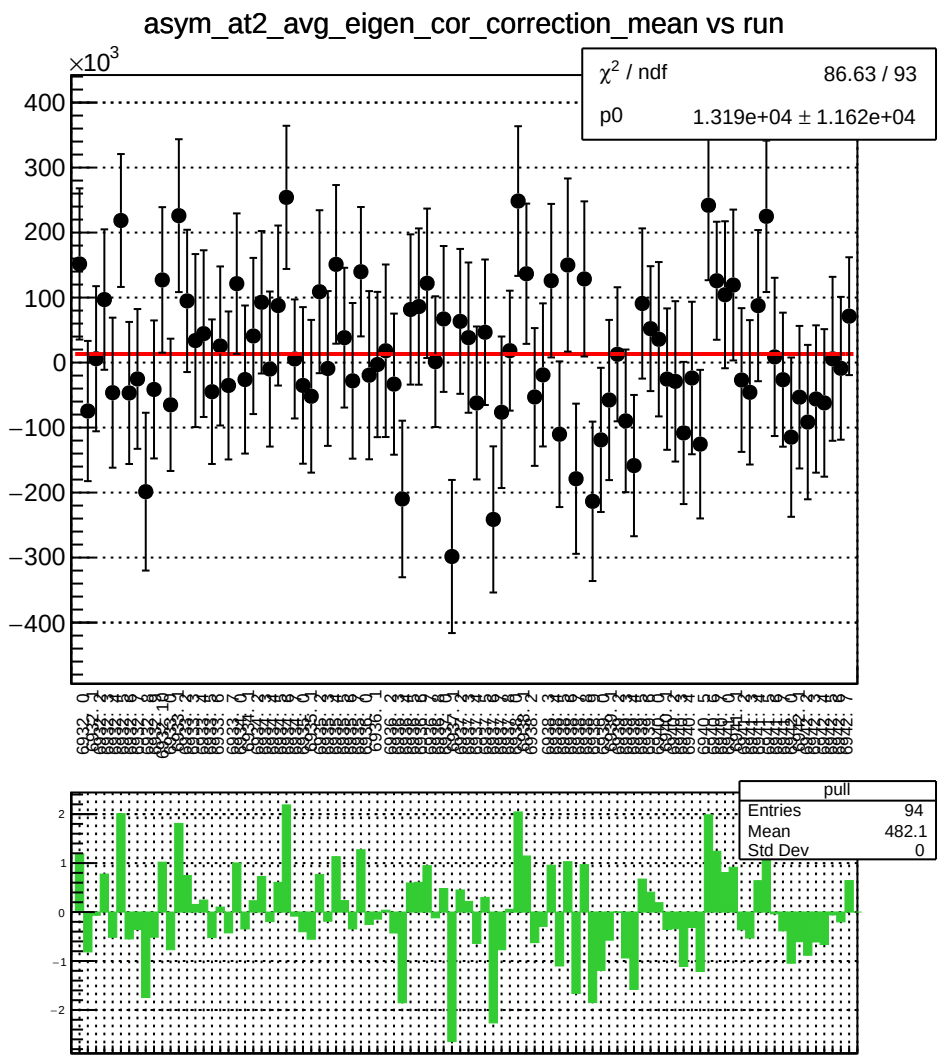

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.63 / 93
p0 1.319e+04 ± 1.162e+04
pull
Entries 94
Mean 482.1
Std Dev 0

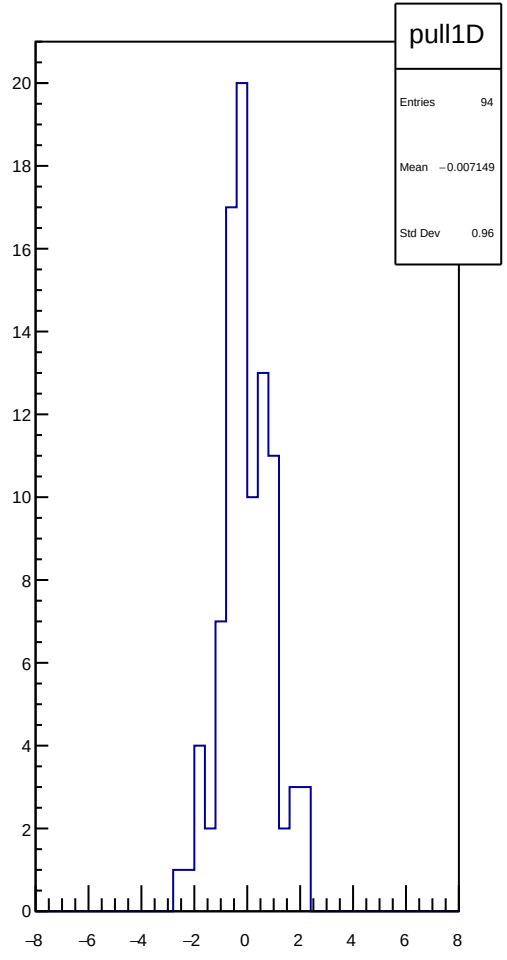

pull1D
Entries 94
Mean −0.007149
Std Dev 0.96

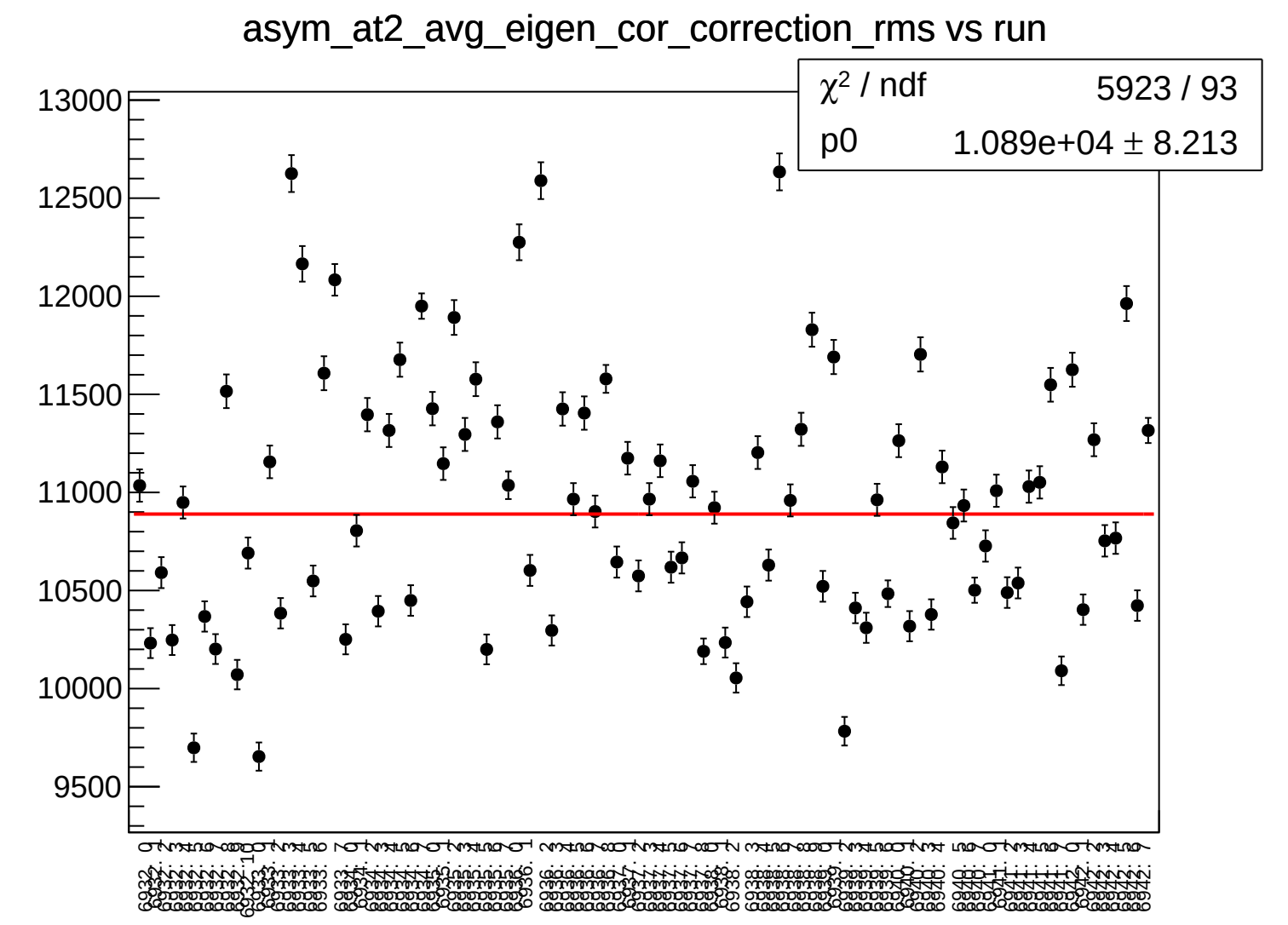

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 5923 / 93
p0 1.089e+04 ± 8.213
13000
12500
12000
11500
11000
10500
10000
9500

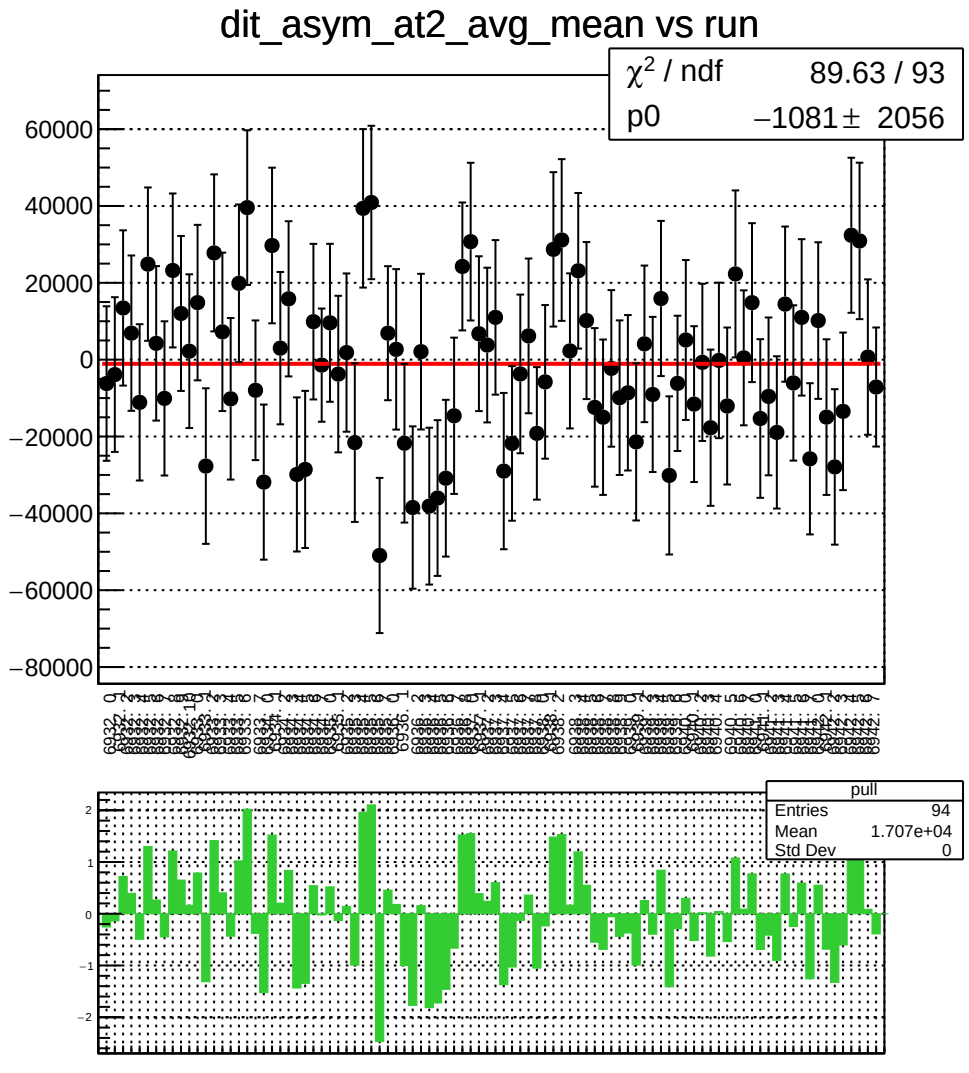

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 91.66 / 93
p0 −1533 ± 1917
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −417.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.002759
Std Dev 0.9875
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

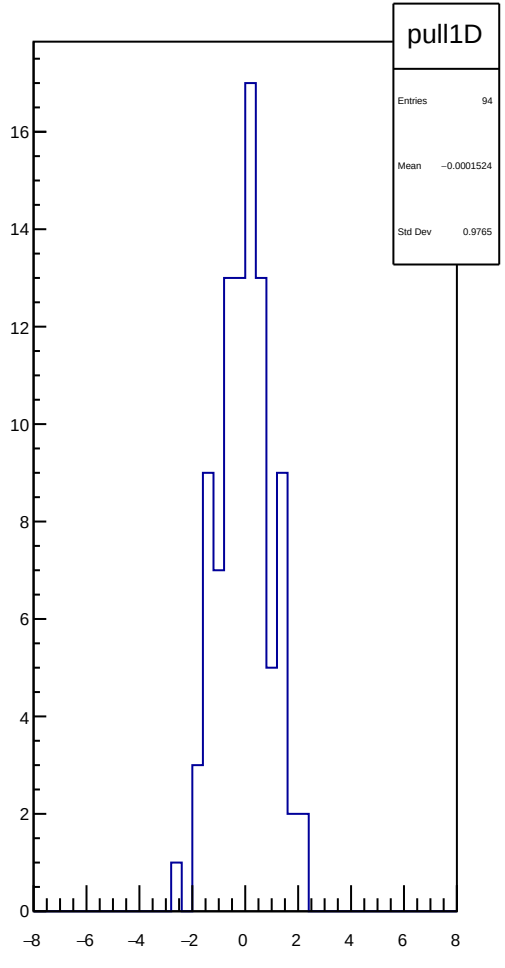

eigen_cor_asym_at2_avg_rms vs run
χ^2 / ndf 155.1 / 93
p0 1800 ± 1.356
1880
1860
1840
1820
1800
1780
1760
1740

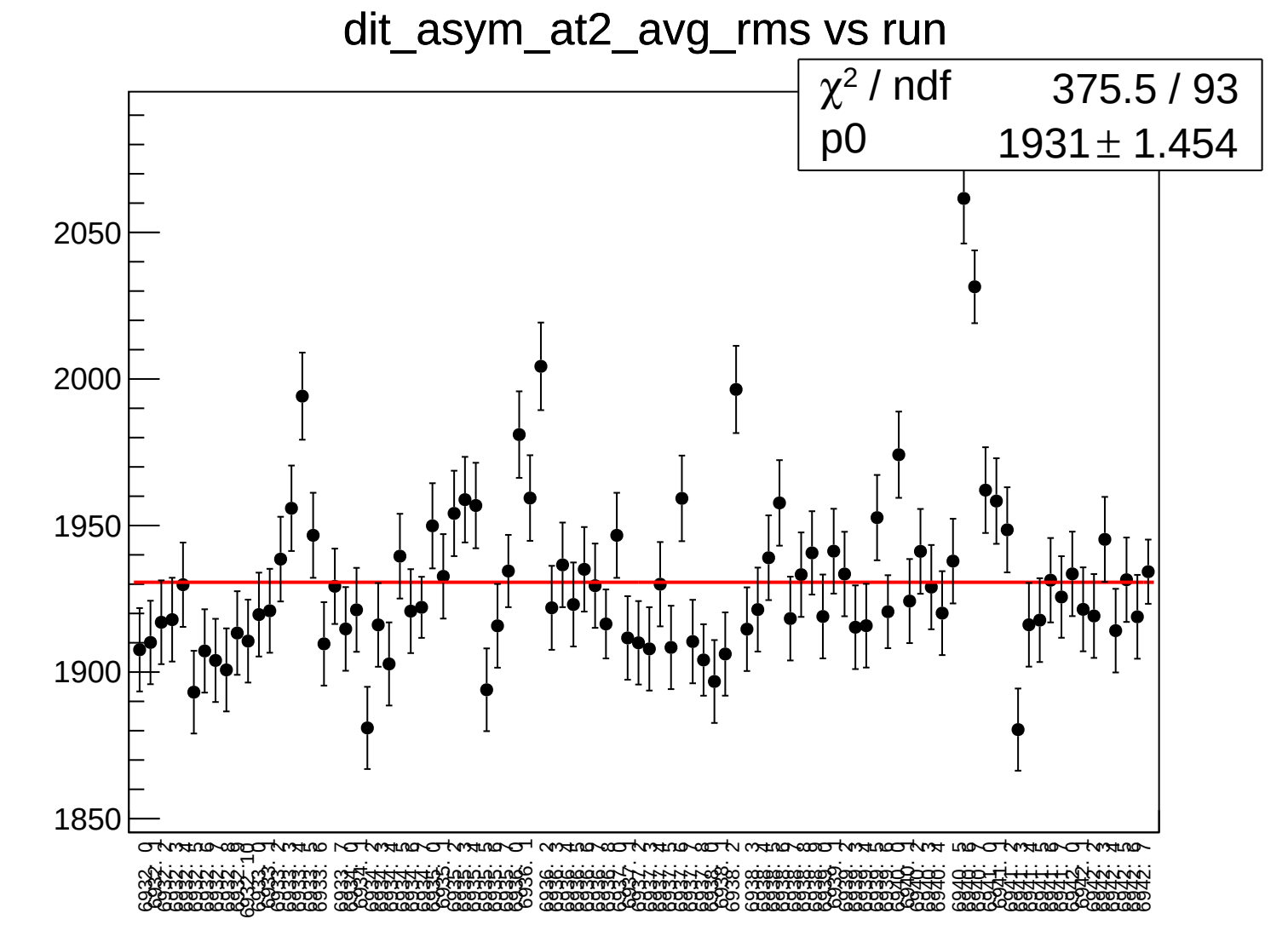

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 86.63 / 93
p0 1.319e+04 ± 1.162e+04
pull
Entries 94
Mean 482.1
Std Dev 0
2
1
0
−1
−2

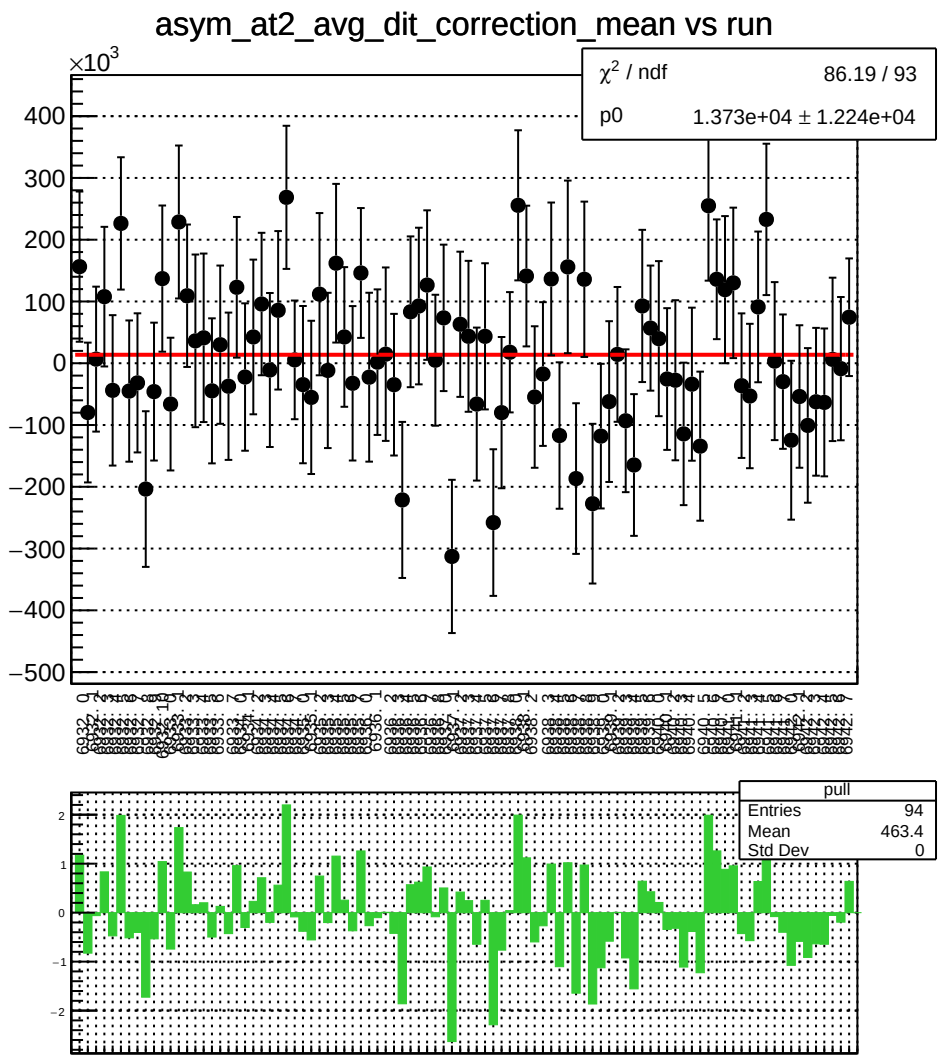

pull1D
Entries 94
Mean −0.007149
Std Dev 0.96
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

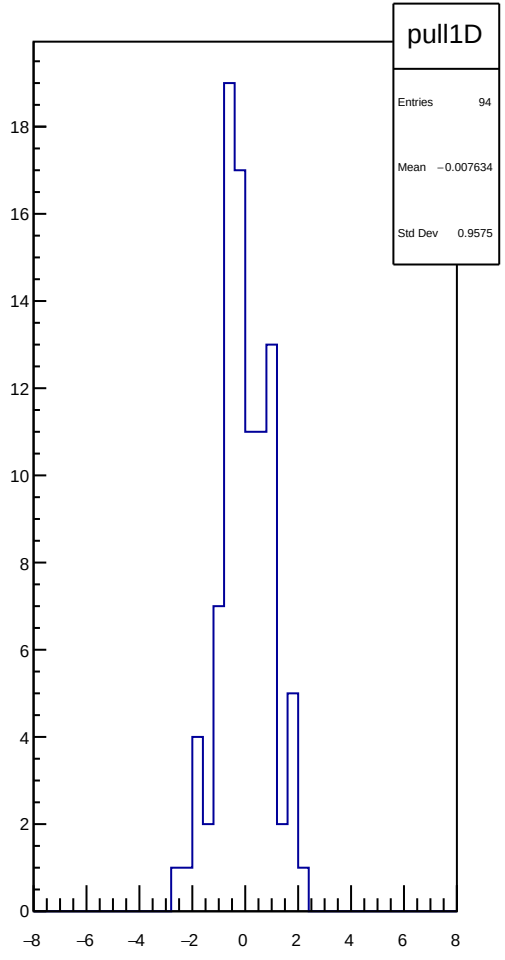

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5923 / 93
p0 1.089e+04 ± 8.213
13000
12500
12000
11500
11000
10500
10000
9500

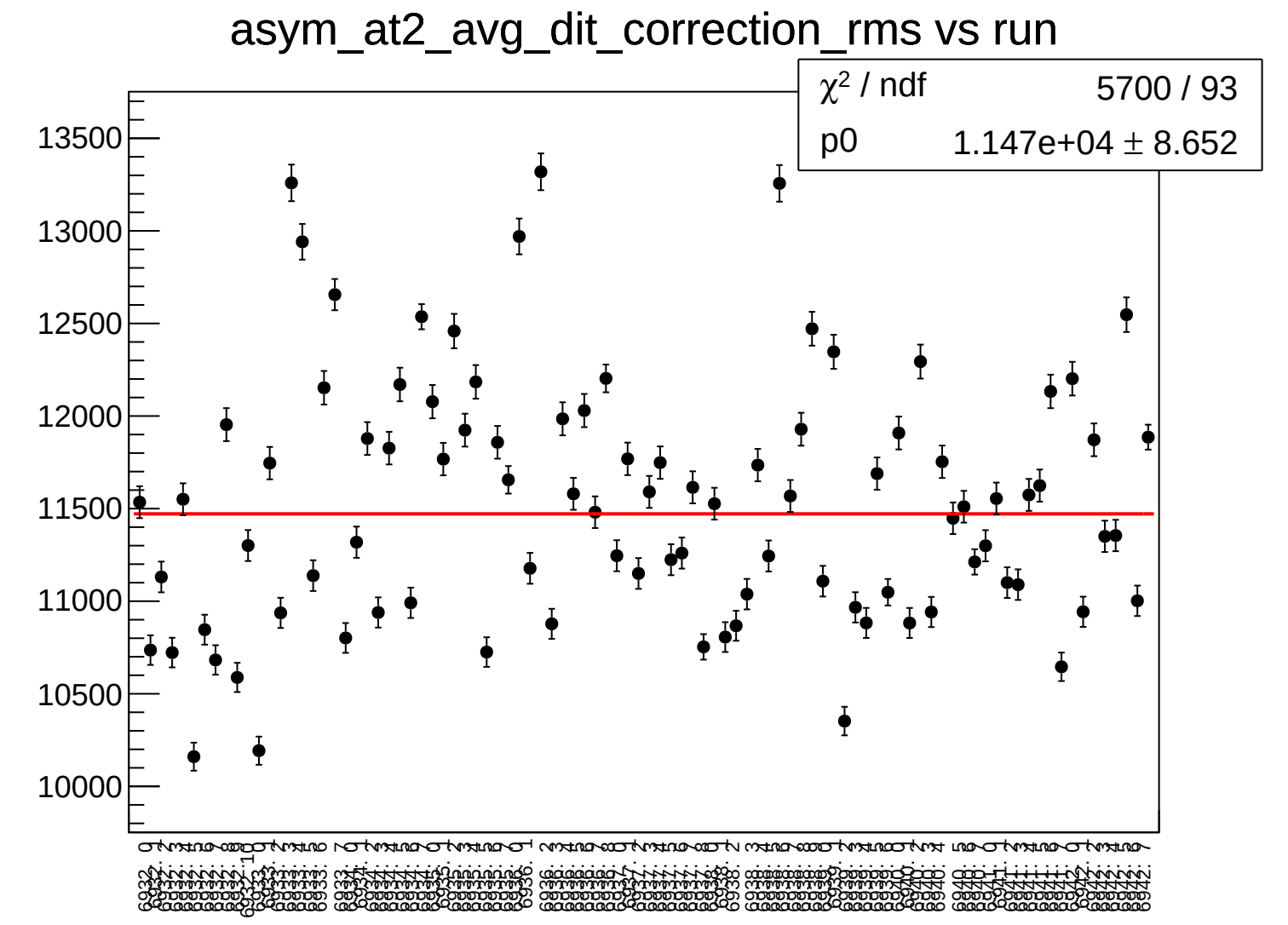

dit_asym_at2_avg_mean vs run
χ² / ndf 89.63 / 93
p0 −1081 ± 2056
pull
Entries 94
Mean 1.707e+04
Std Dev 0

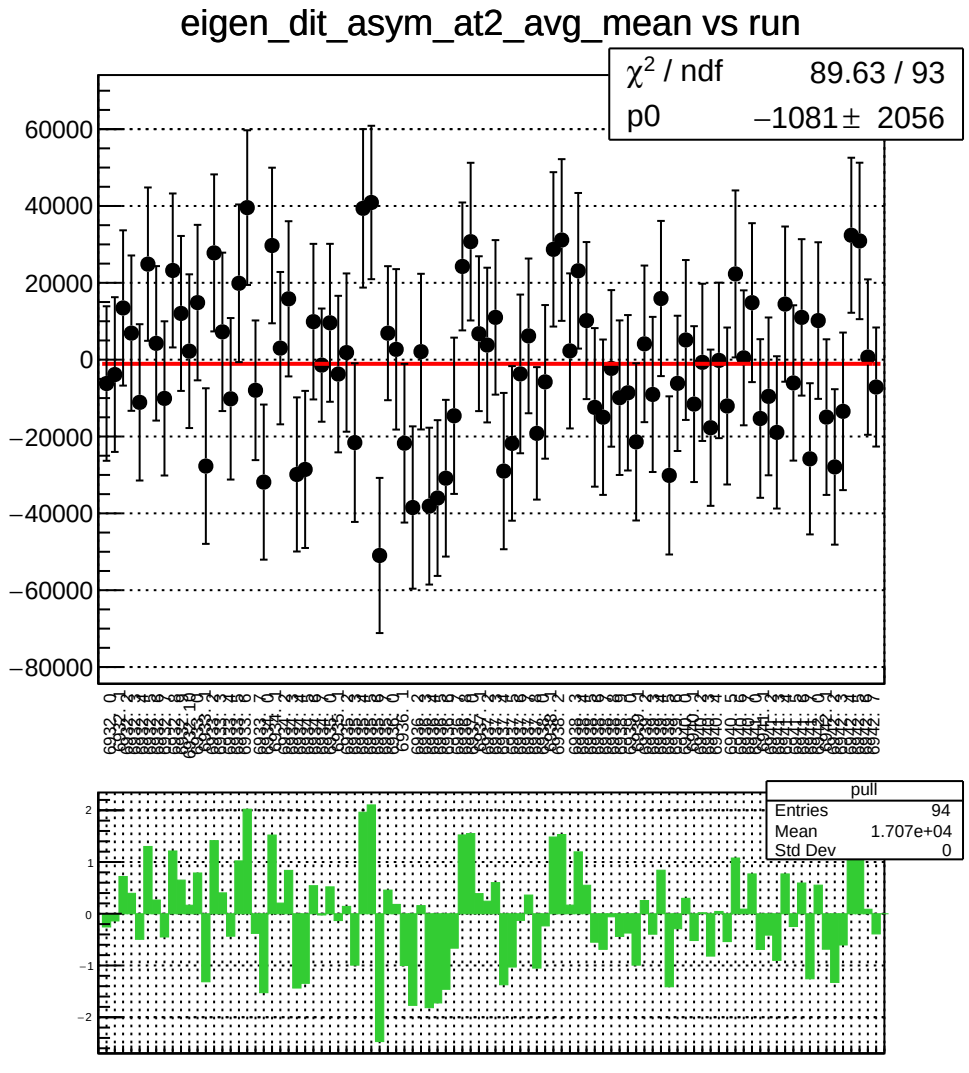

pull1D
Entries 94
Mean −0.0001524
Std Dev 0.9765

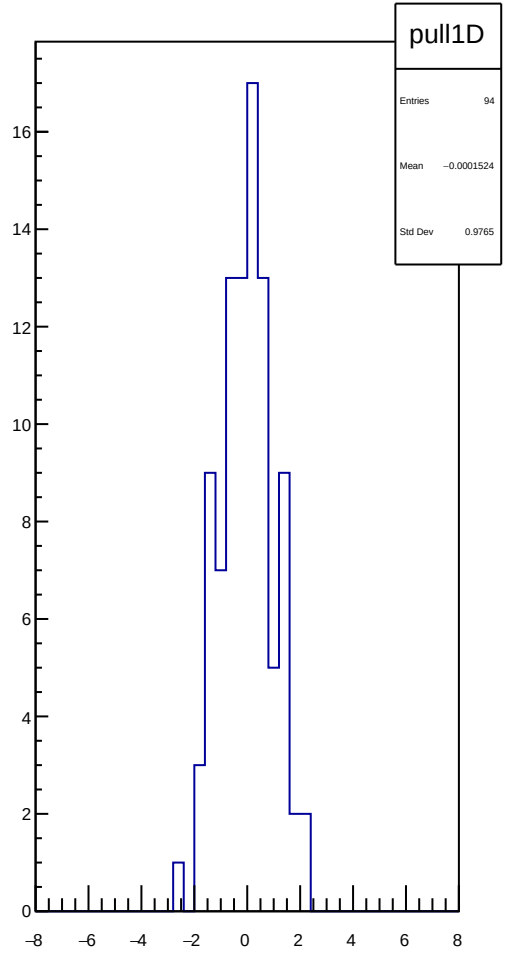

dit_asym_at2_avg_rms vs run
χ^2 / ndf 375.5 / 93
p0 1931 ± 1.454
2050
2000
1950
1900
1850

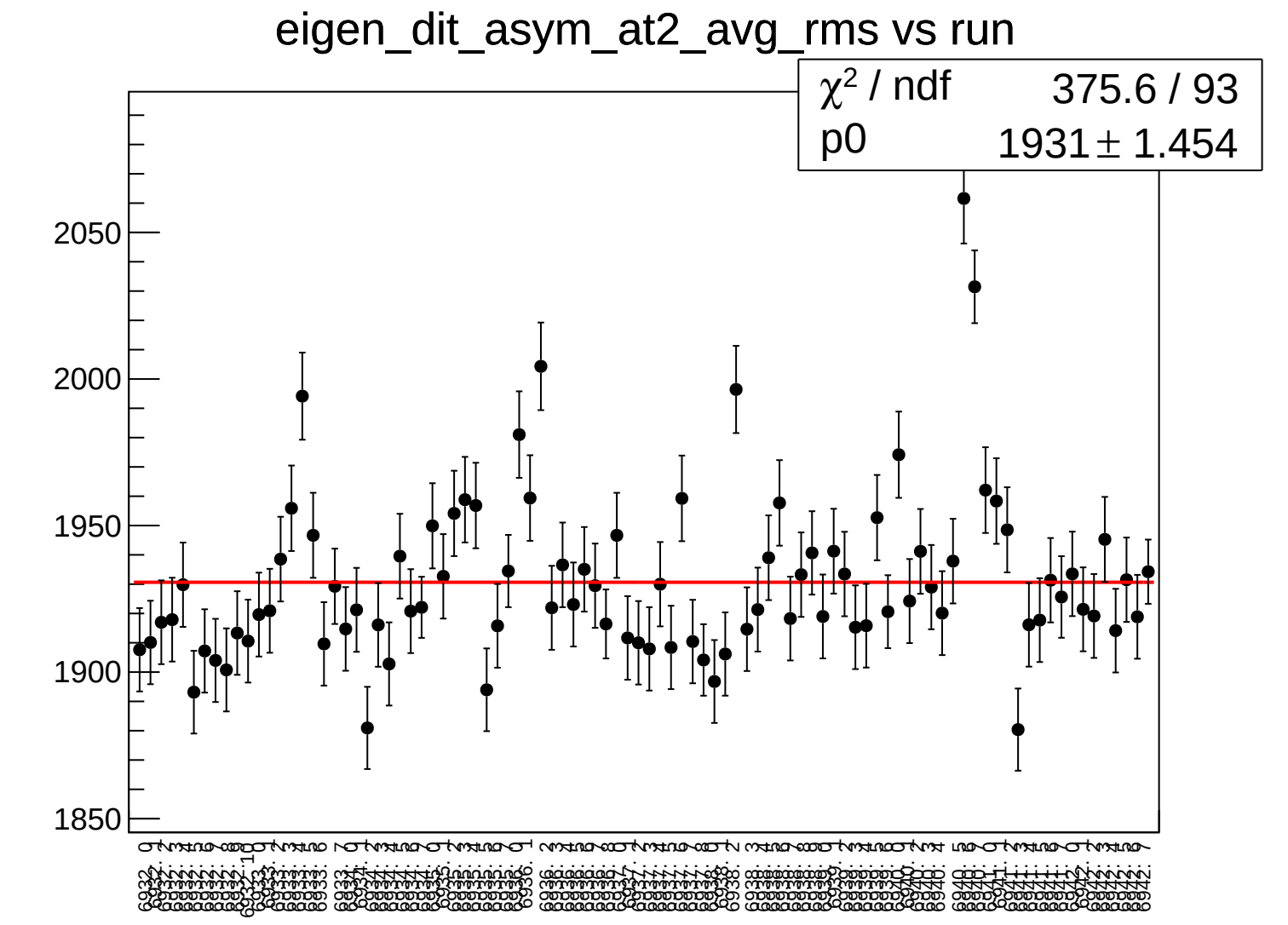

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.19 / 93
p0 1.373e+04 ± 1.224e+04
pull
Entries 94
Mean 463.4
Std Dev 0

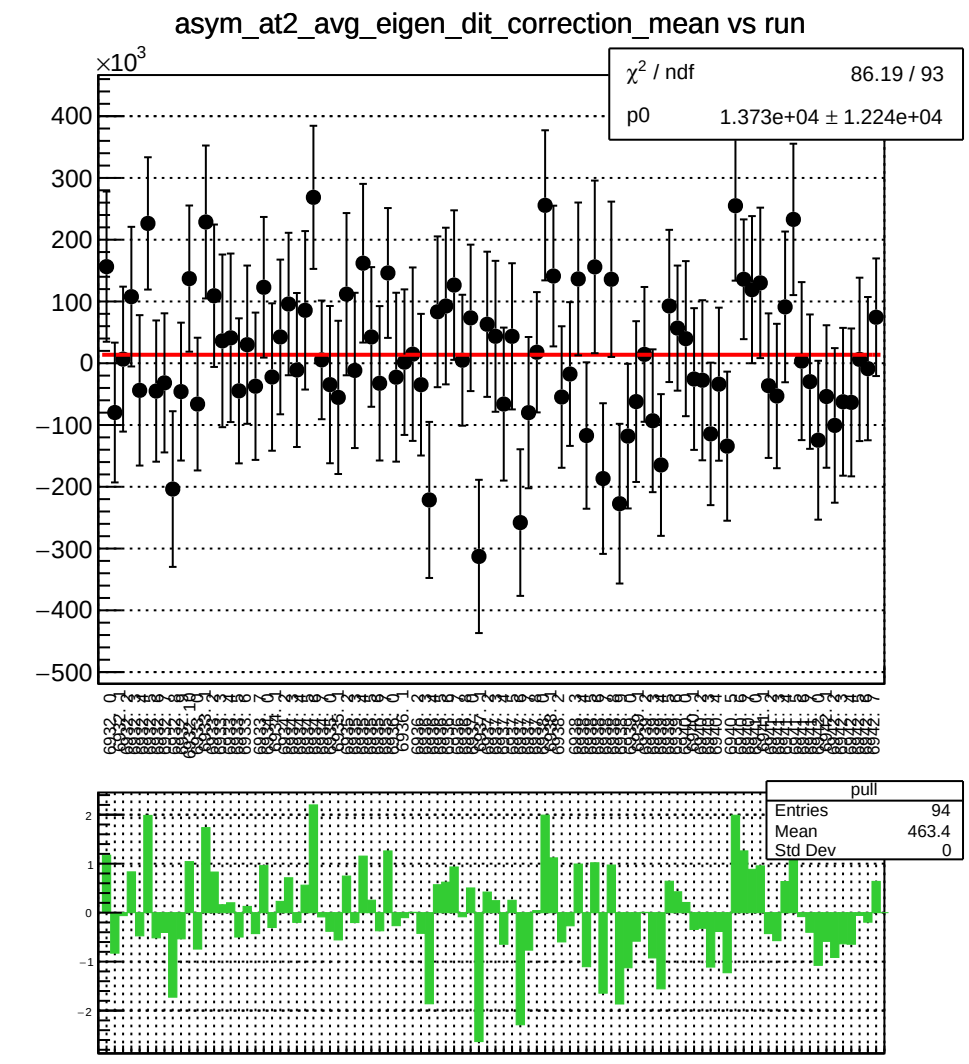

pull1D
Entries 94
Mean −0.007634
Std Dev 0.9575

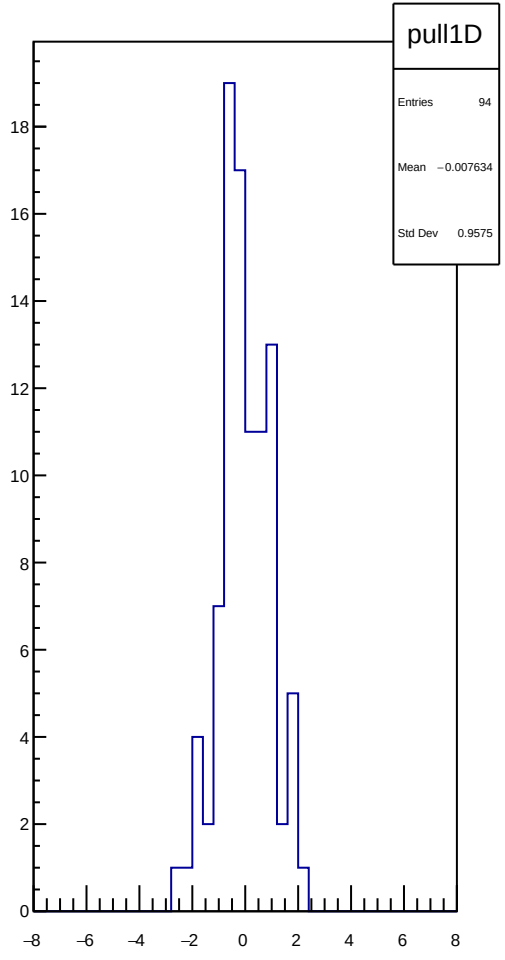

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 5700 / 93
p0 1.147e+04 ± 8.652
13500
13000
12500
12000
11500
11000
10500
10000

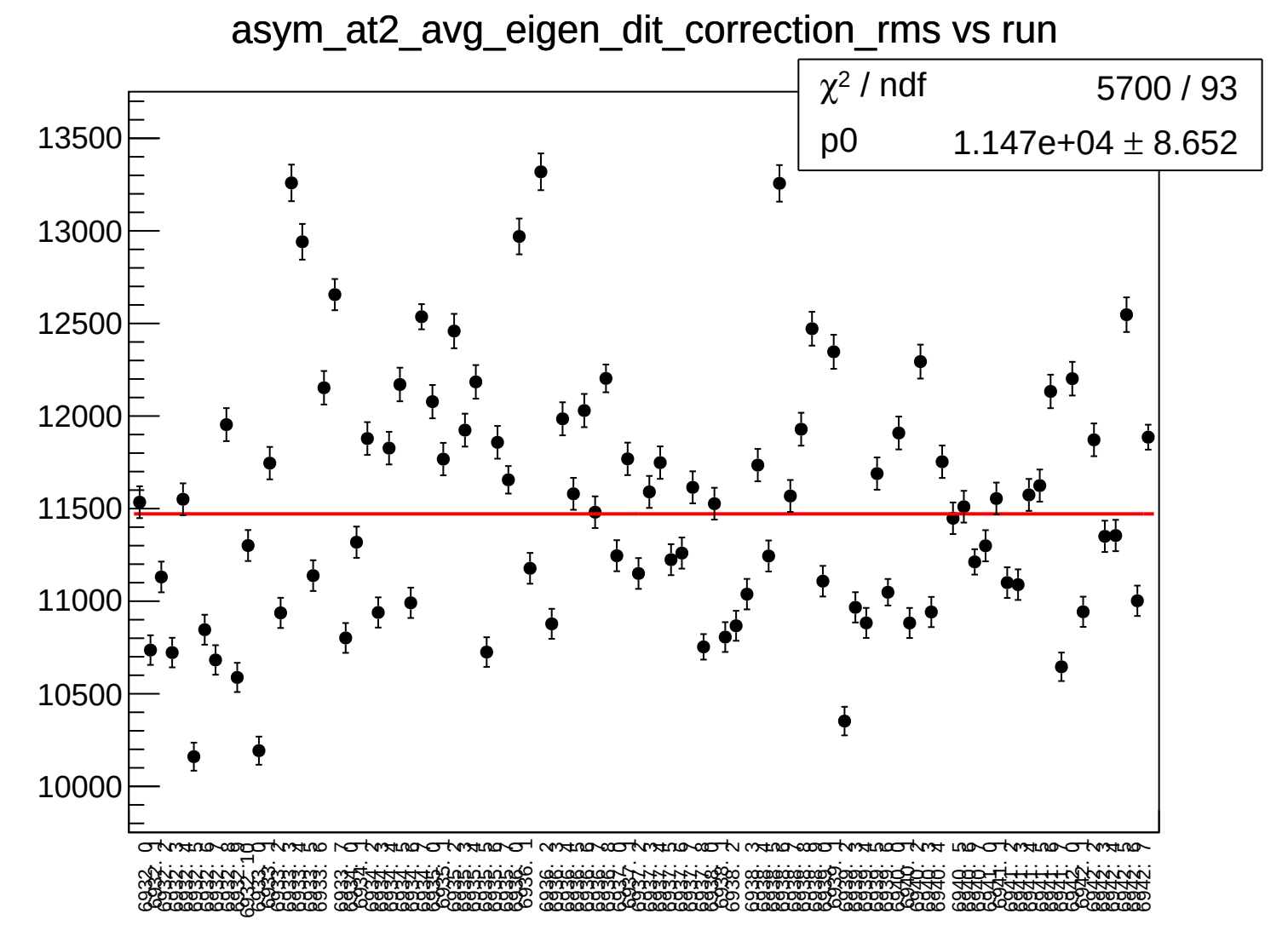

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 89.63 / 93
p0 −1081 ± 2056
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1.707e+04
Std Dev 0
2
1
0
−1
−2

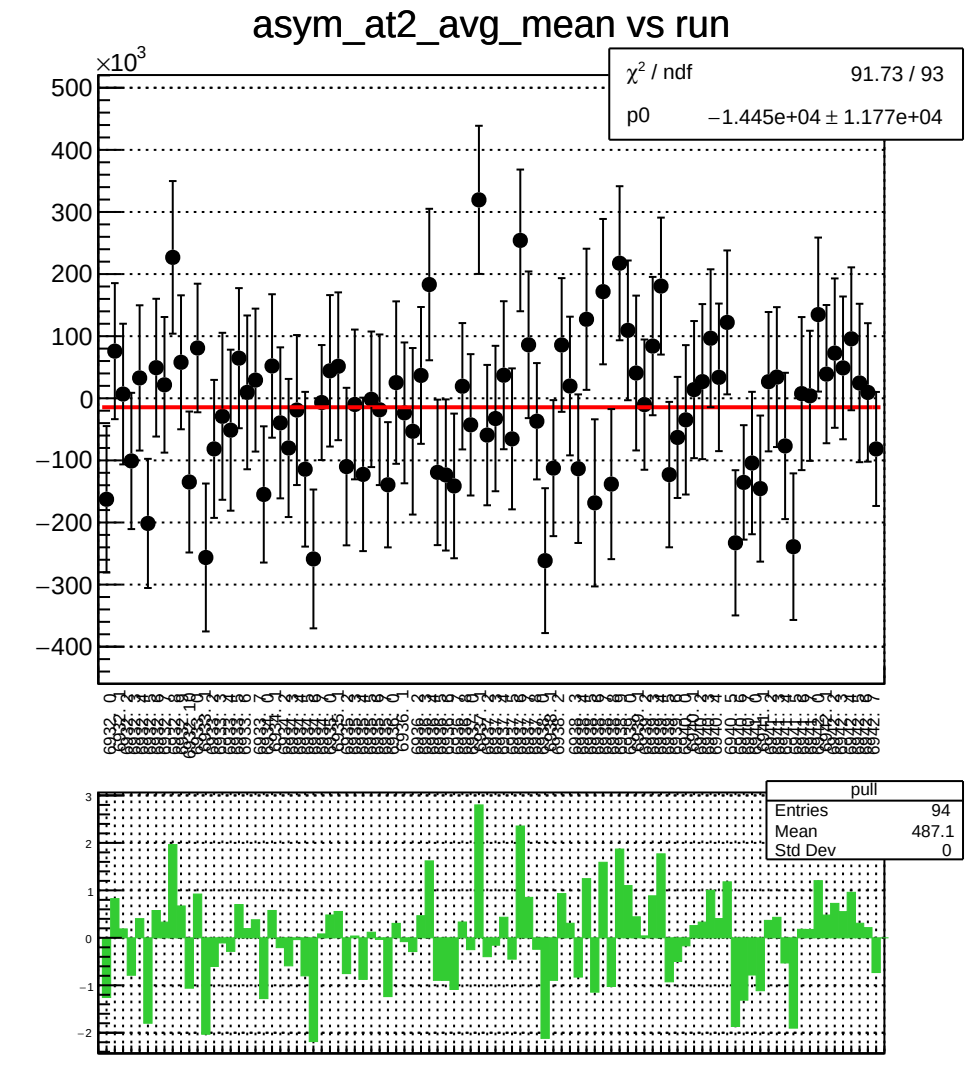

pull1D
Entries 94
Mean −0.0001524
Std Dev 0.9765
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

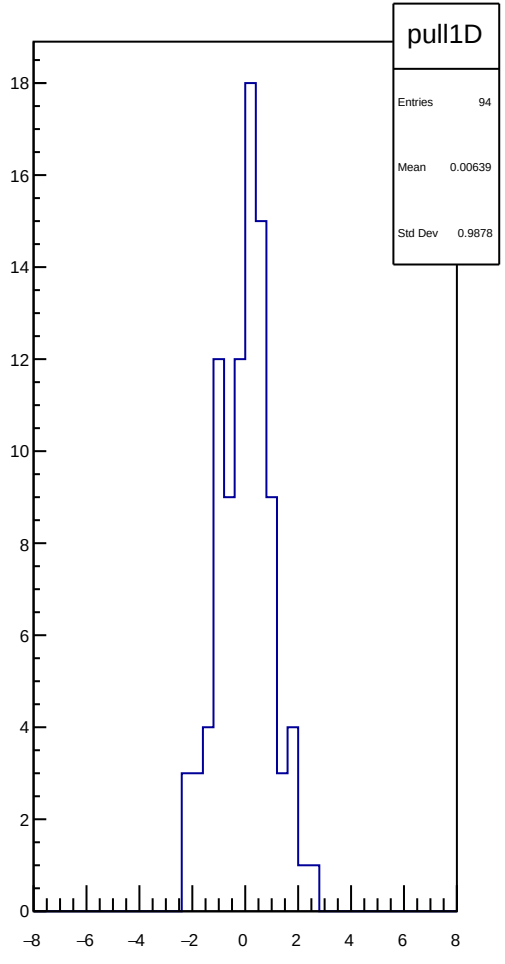

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 375.6 / 93
p0 1931 ± 1.454
2050
2000
1950
1900
1850

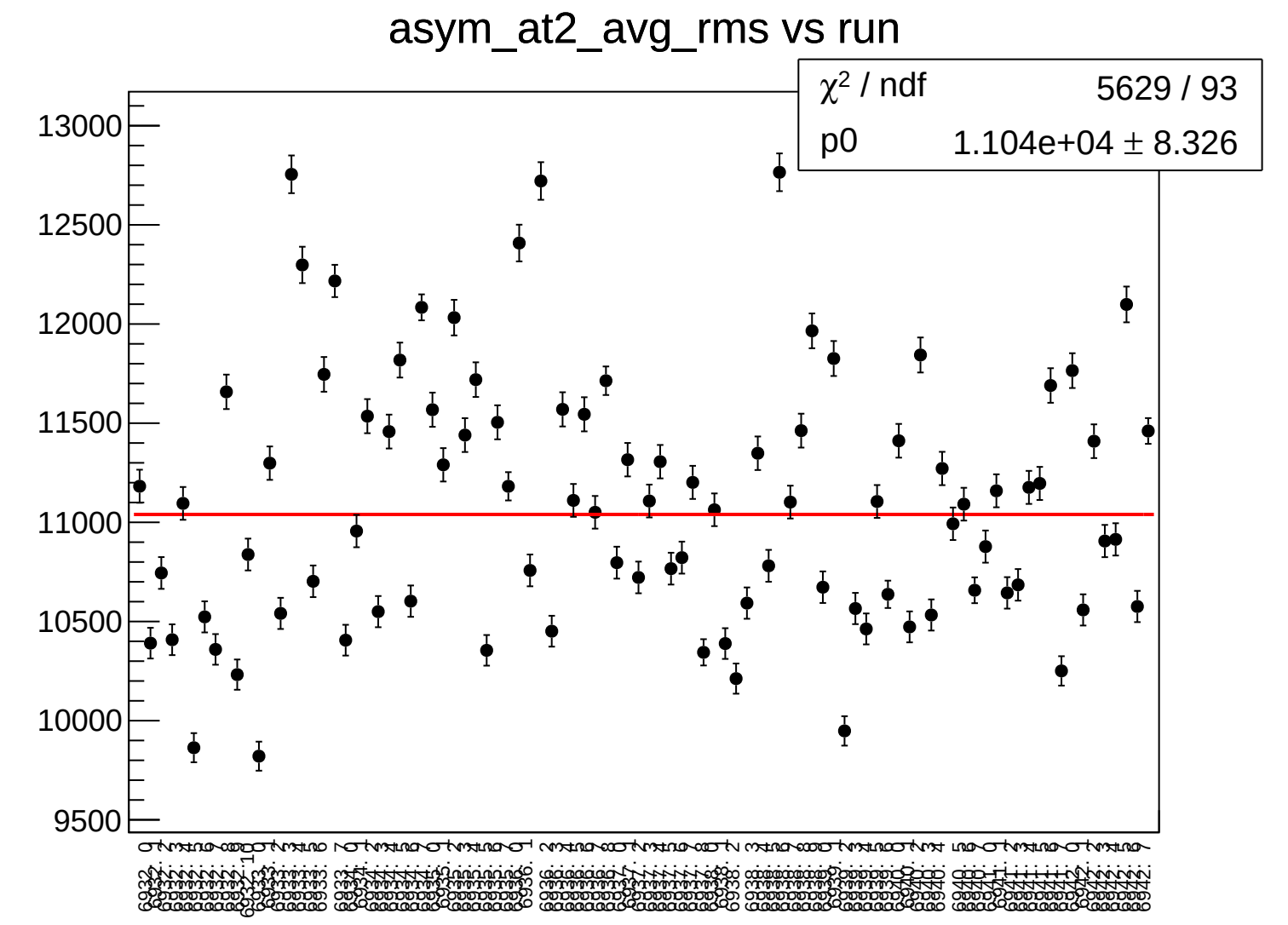

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.19 / 93
p0 1.373e+04 ± 1.224e+04
pull
Entries 94
Mean 463.4
Std Dev 0

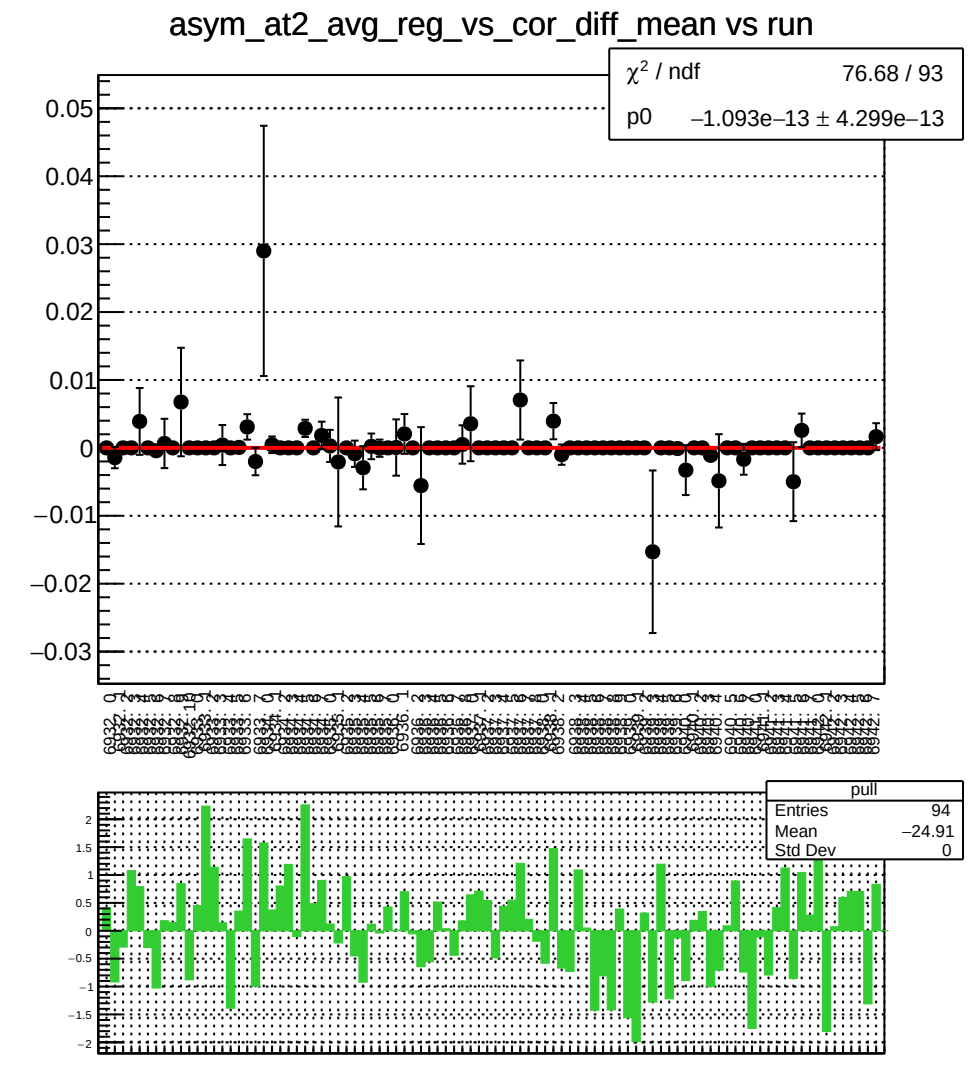

pull1D
Entries 94
Mean −0.007634
Std Dev 0.9575

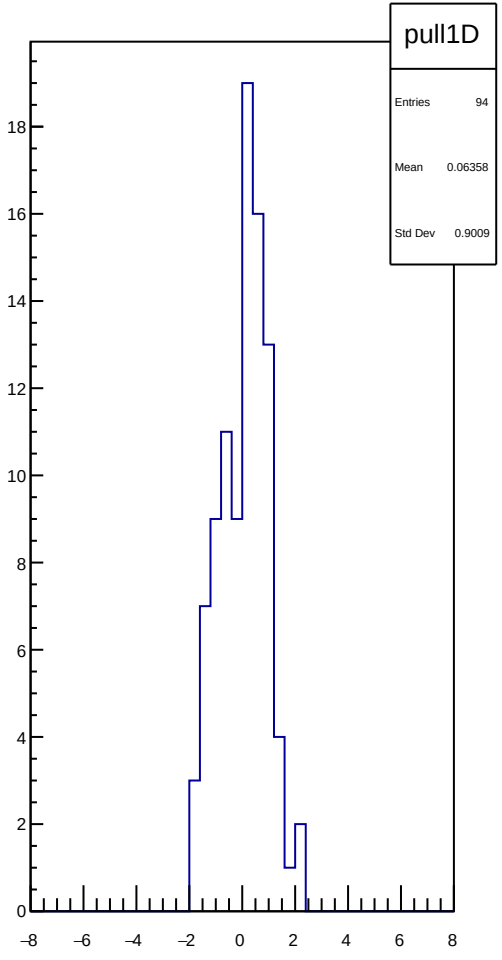

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5700 / 93
p0 1.147e+04 ± 8.652
13500
13000
12500
12000
11500
11000
10500
10000

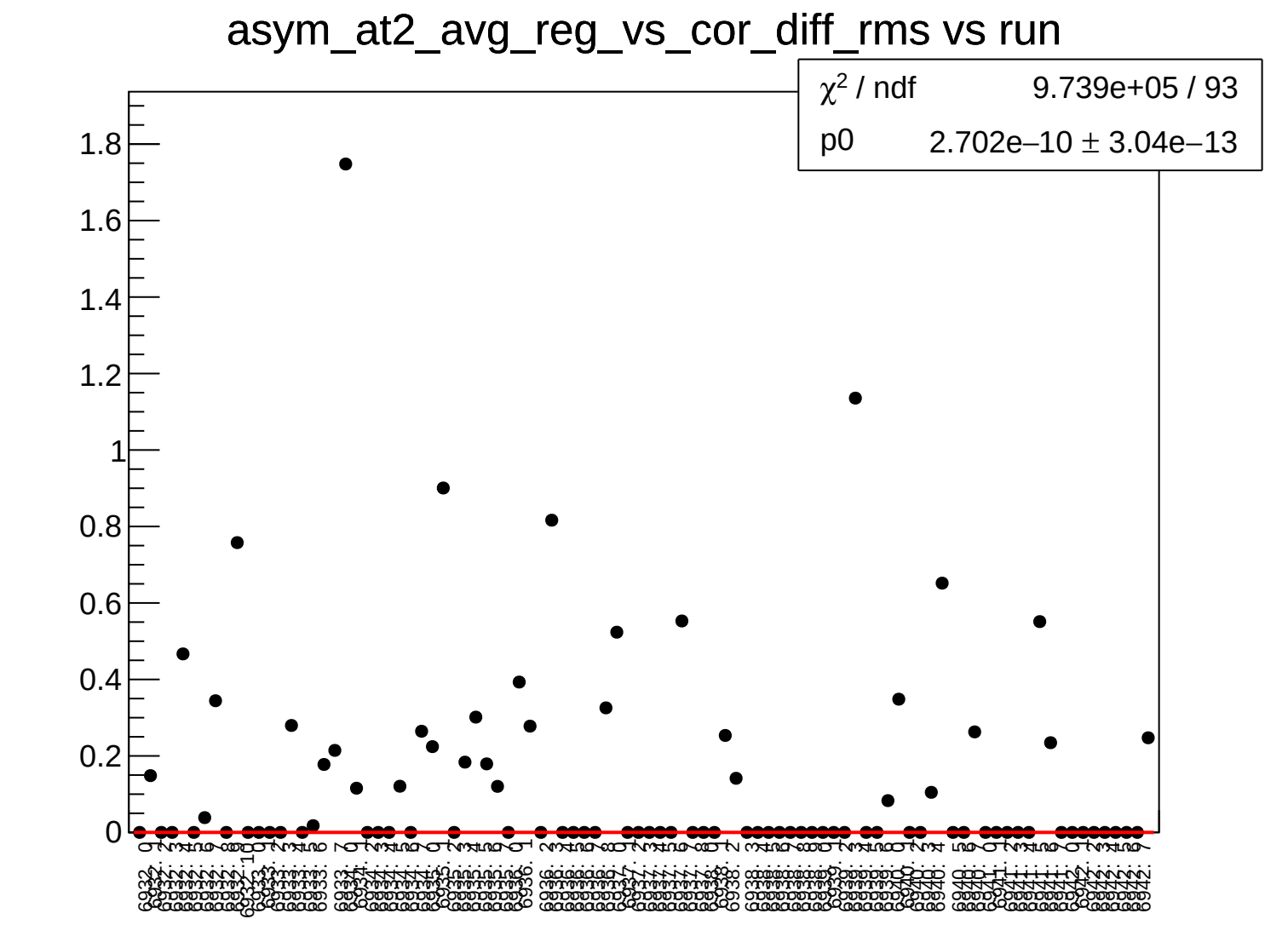

asym_at2_avg_mean vs run
×10^3
χ² / ndf 91.73 / 93
p0 −1.445e+04 ± 1.177e+04
pull
Entries 94
Mean 487.1
Std Dev 0

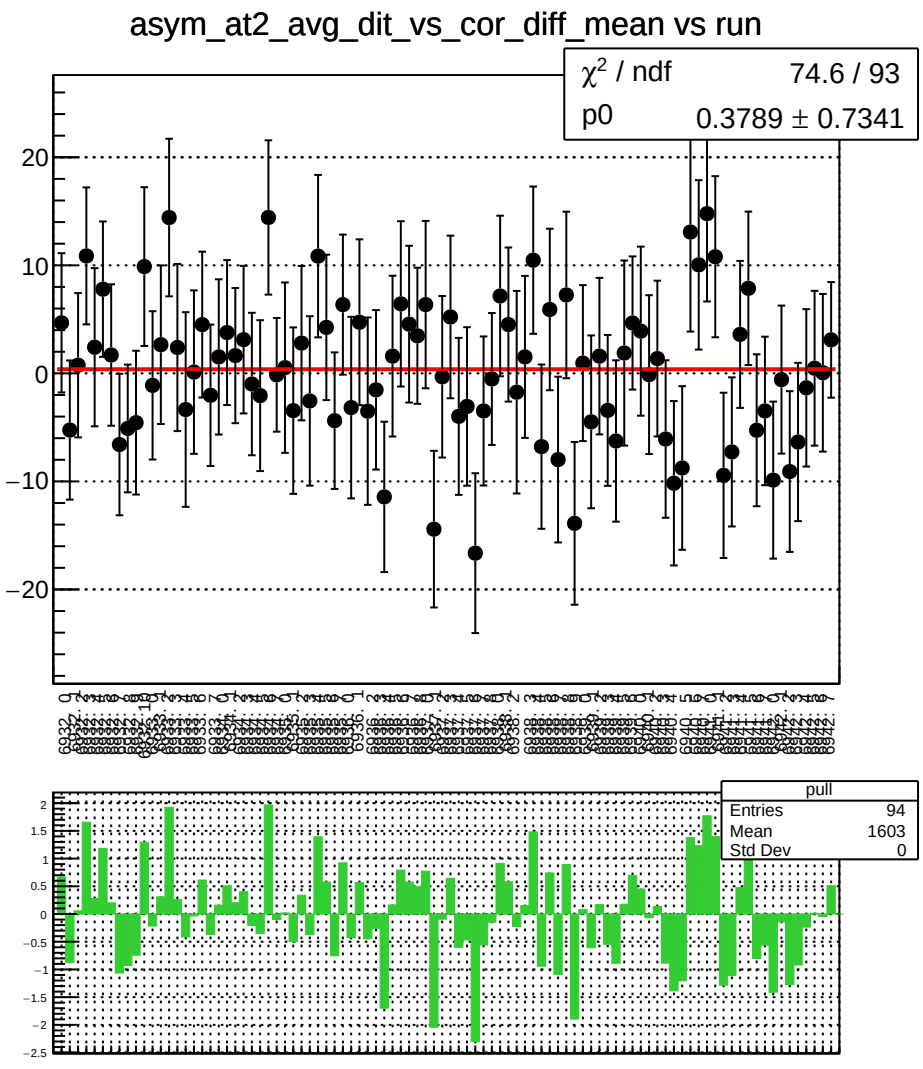

pull1D
Entries 94
Mean 0.00639
Std Dev 0.9878

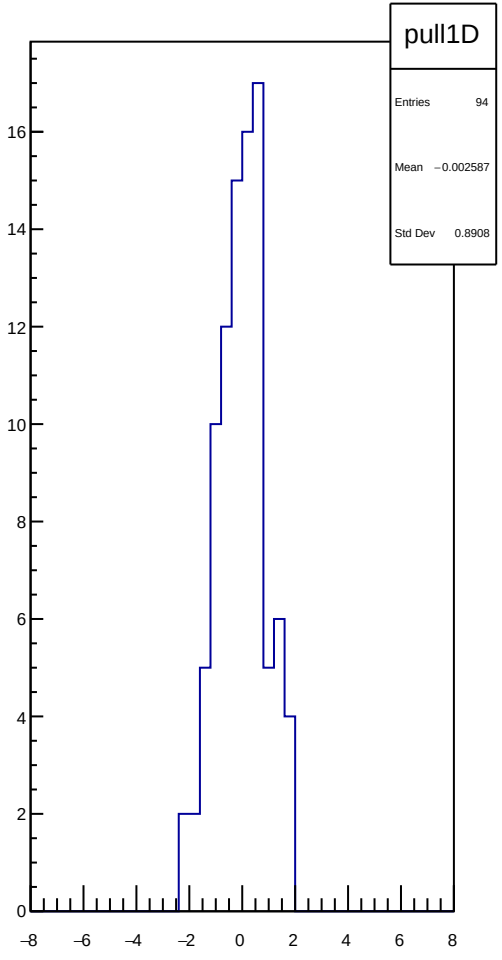

asym_at2_avg_rms vs run
χ² / ndf 5629 / 93
p0 1.104e+04 ± 8.326
13000
12500
12000
11500
11000
10500
10000
9500

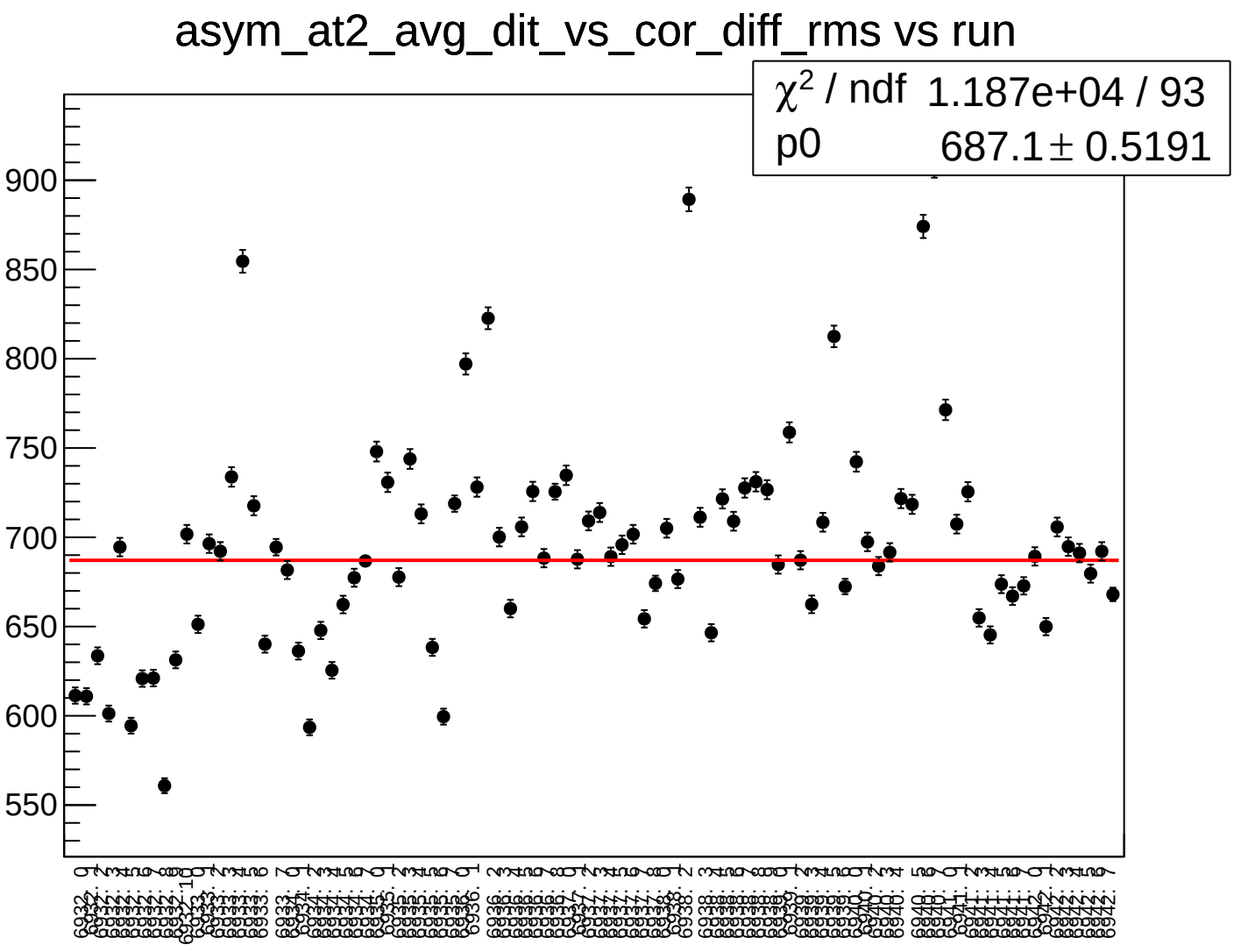

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.68 / 93
p0 −1.093e−13 ± 4.299e−13
pull
Entries 94
Mean −24.91
Std Dev 0

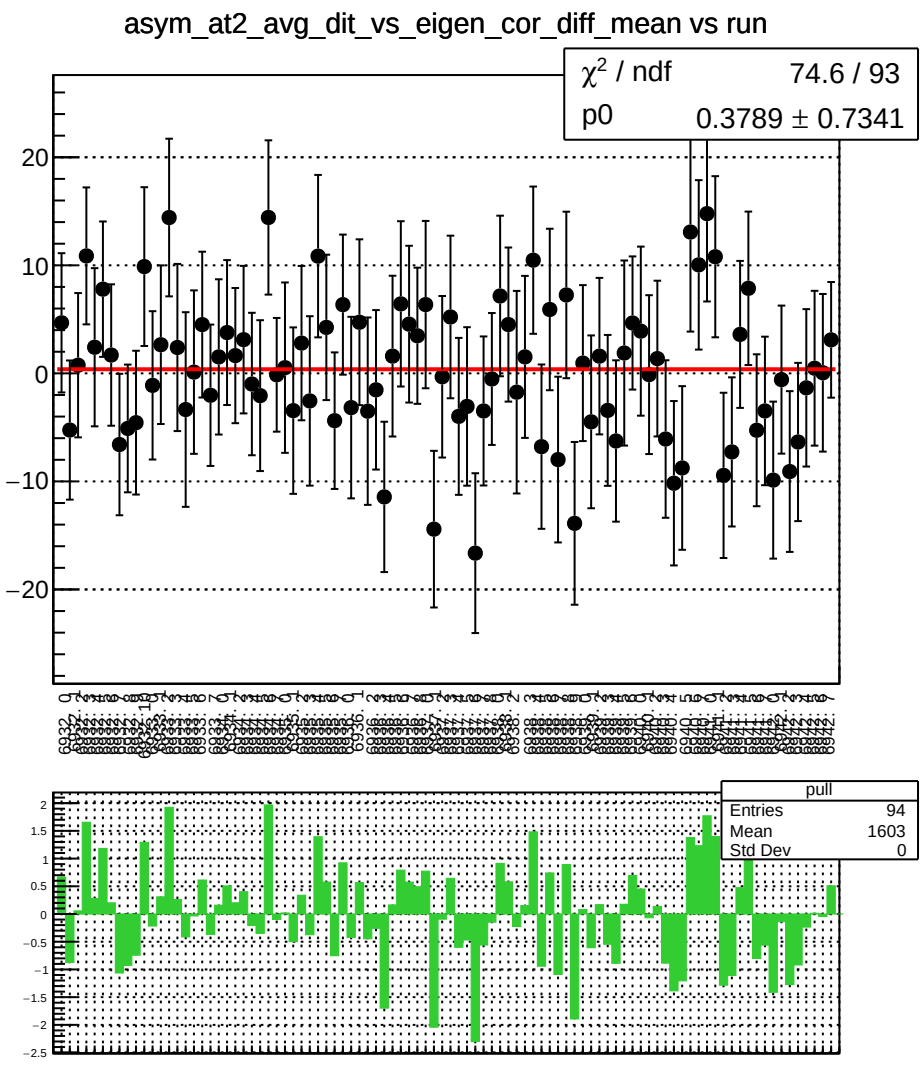

pull1D
Entries 94
Mean 0.06358
Std Dev 0.9009

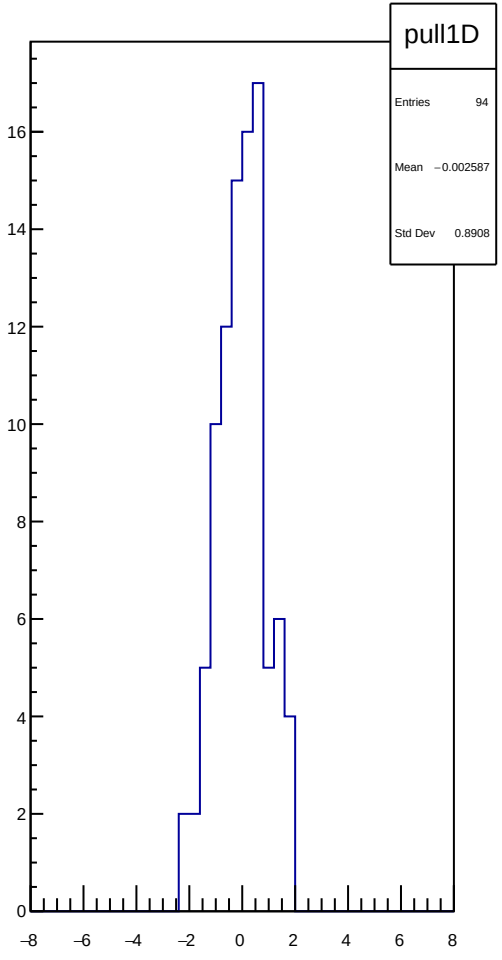

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.739e+05 / 93
p0 2.702e−10 ± 3.04e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

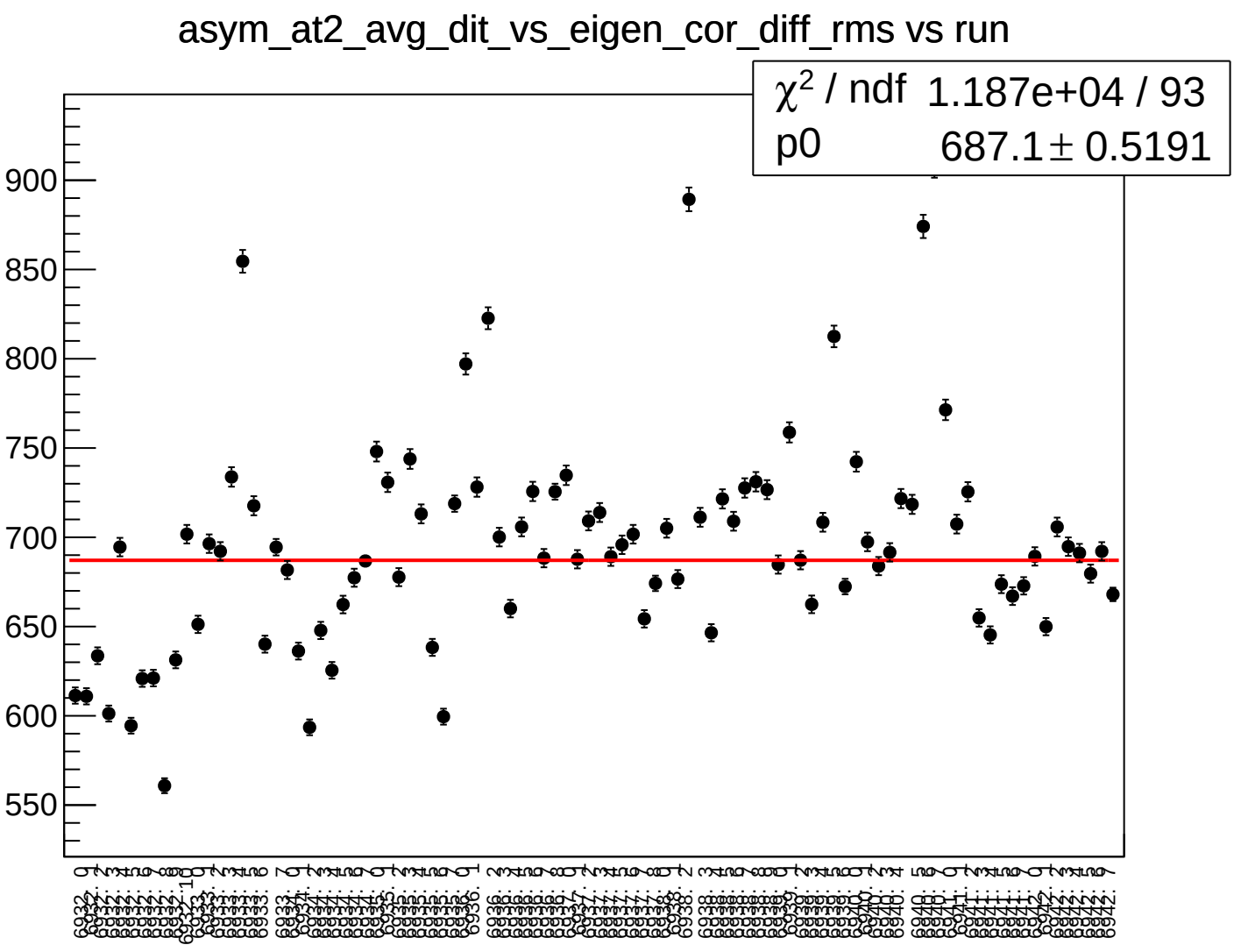

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 93
p0 0.3789 ± 0.7341
pull
Entries 94
Mean 1603
Std Dev 0

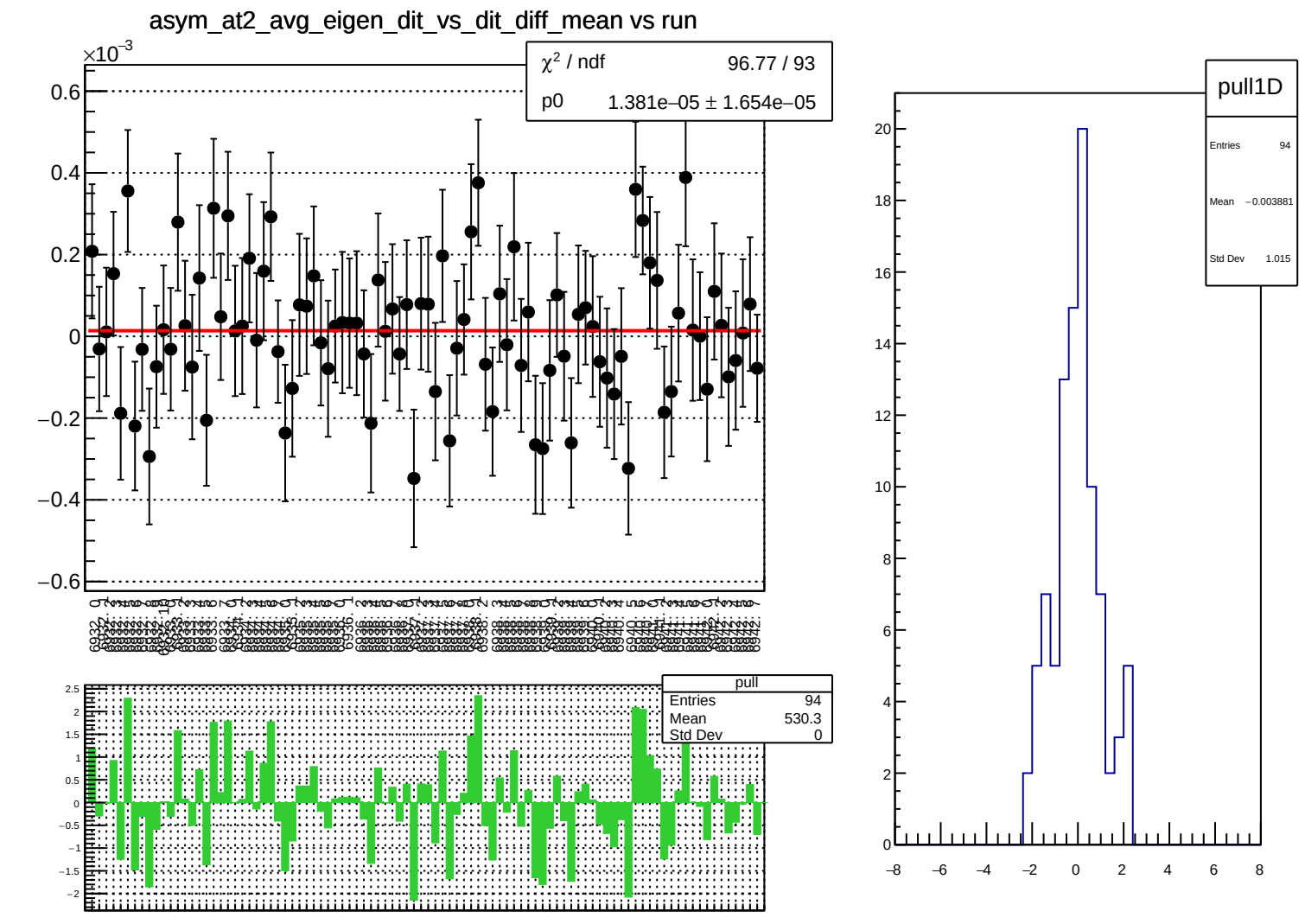

pull1D
Entries 94
Mean −0.002587
Std Dev 0.8908

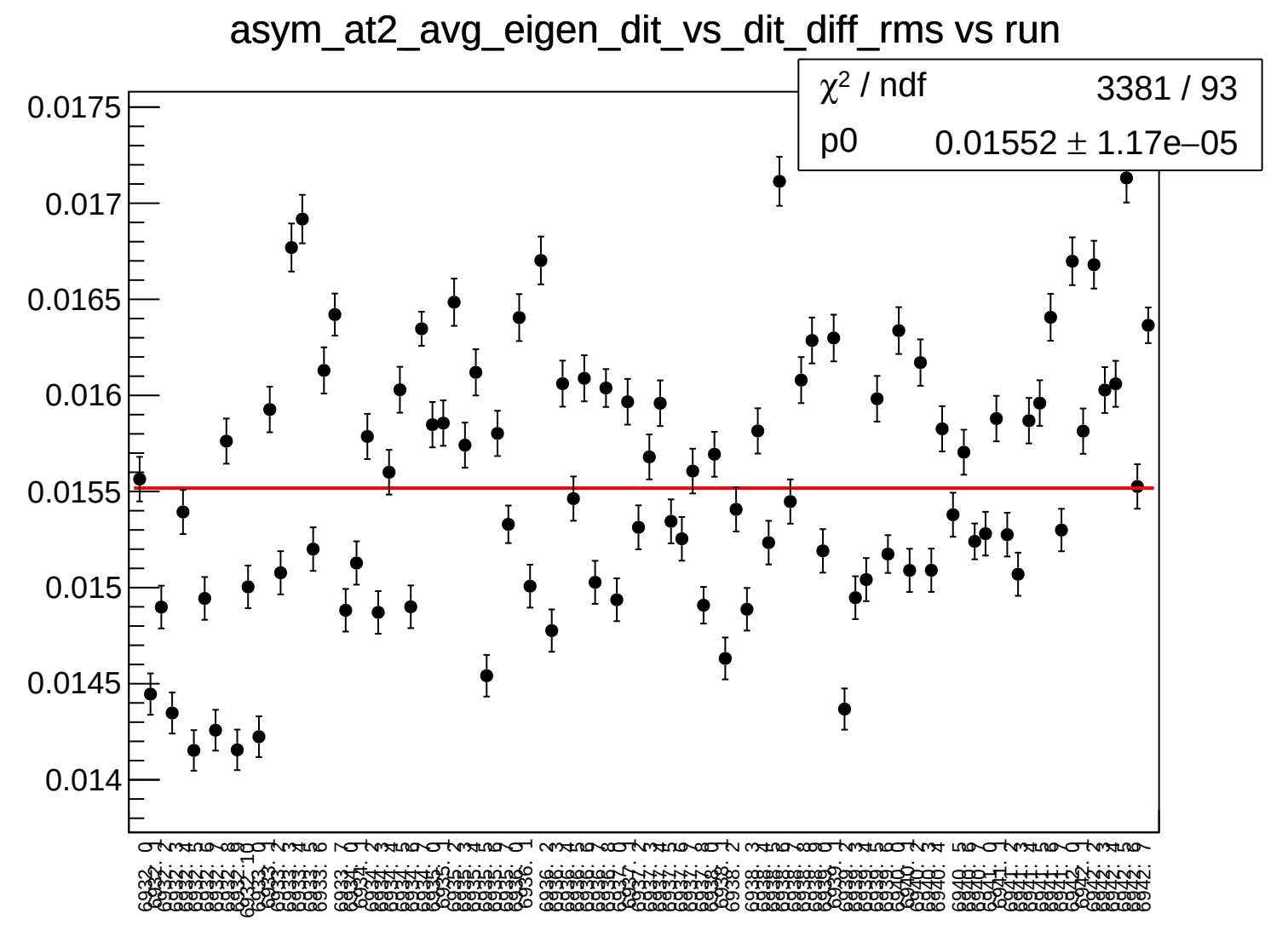

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.187e+04 / 93
p0 687.1 ± 0.5191
900
850
800
750
700
650
600
550

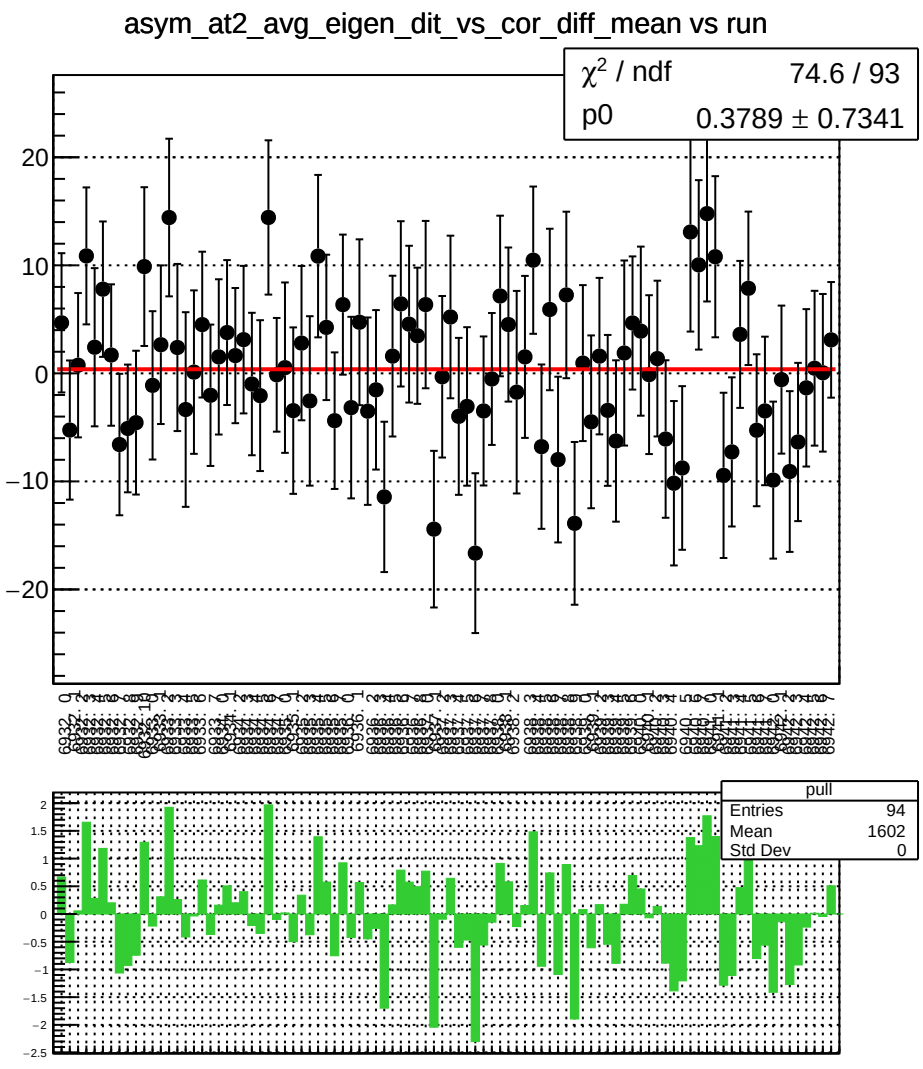

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 93
p0 0.3789 ± 0.7341
pull
Entries 94
Mean 1603
Std Dev 0

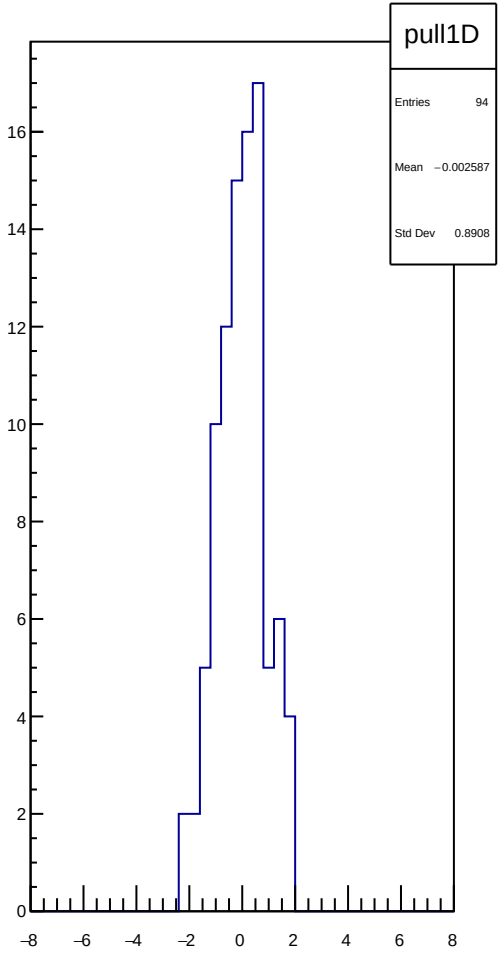

pull1D
Entries 94
Mean −0.002587
Std Dev 0.8908

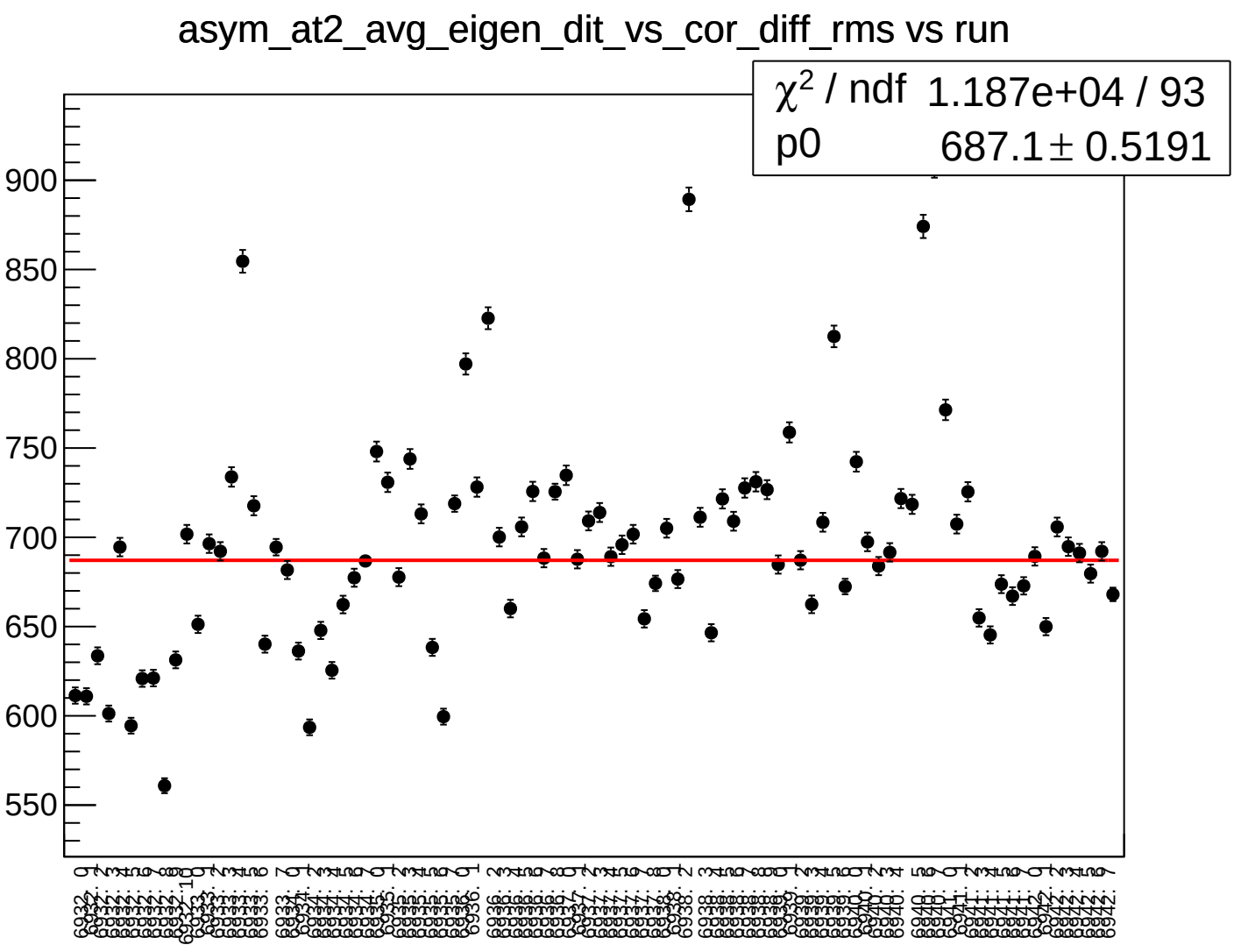

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+04 / 93
p0 687.1 ± 0.5191
900
850
800
750
700
650
600
550

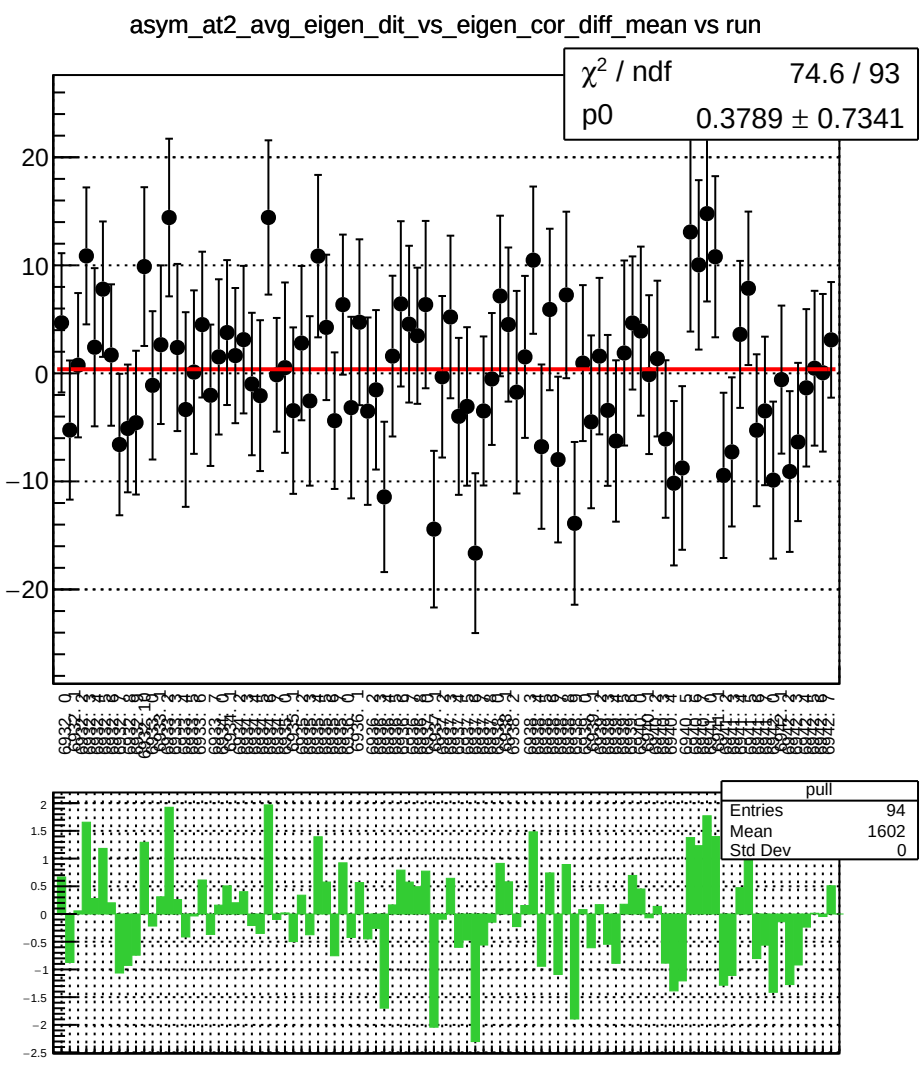

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.77 / 93
p0 1.381e−05 ± 1.654e−05
pull
Entries 94
Mean 530.3
Std Dev 0
pull1D
Entries 94
Mean −0.003881
Std Dev 1.015

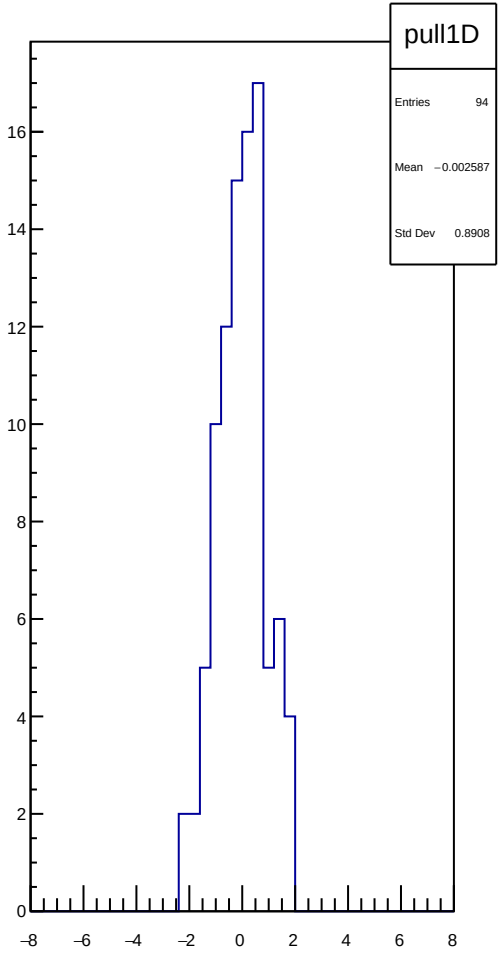

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3381 / 93
p0 0.01552 ± 1.17e−05
0.0175
0.017
0.0165
0.016
0.0155
0.015
0.0145
0.014

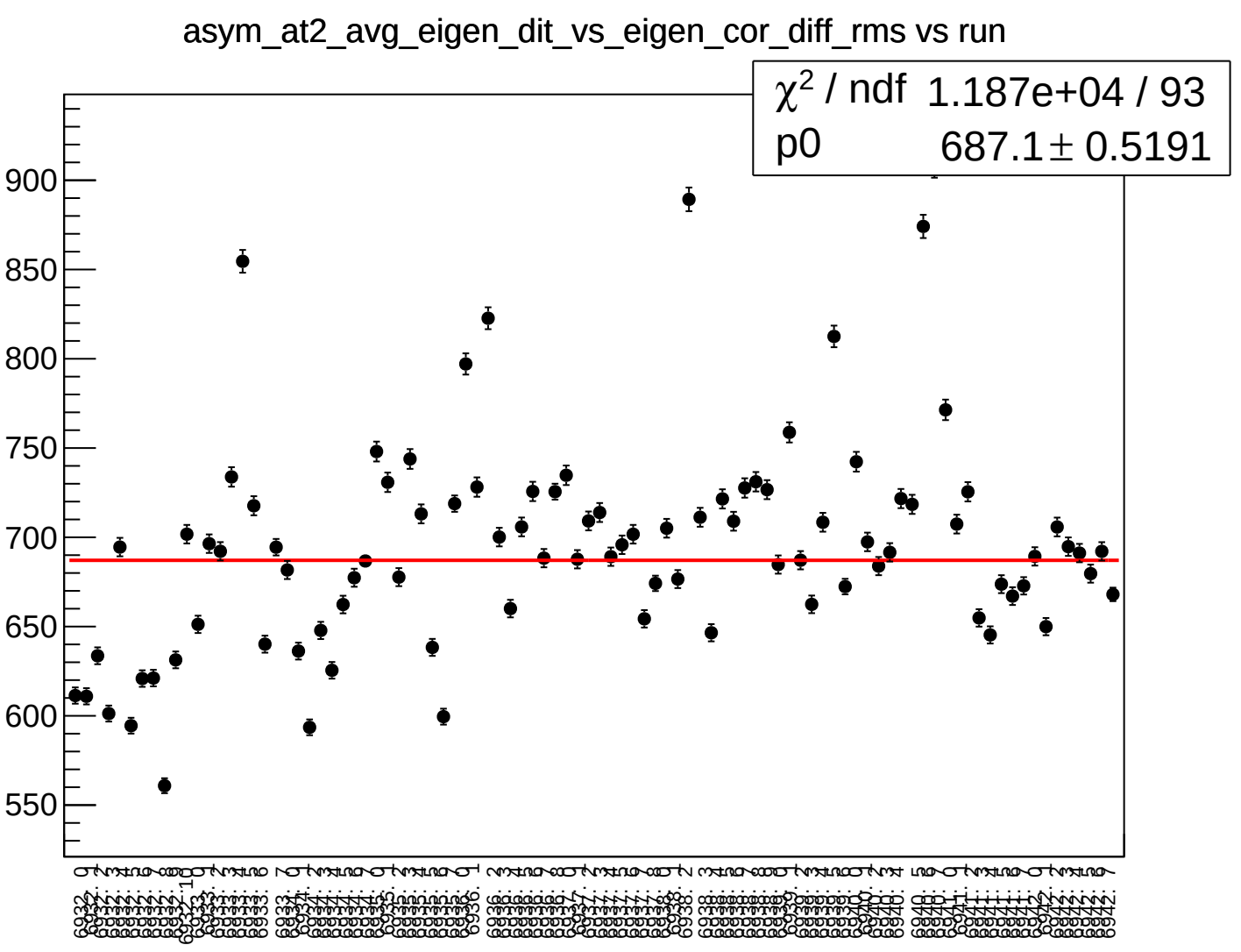

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.6 / 93
p0 0.3789 ± 0.7341
pull
Entries 94
Mean 1602
Std Dev 0

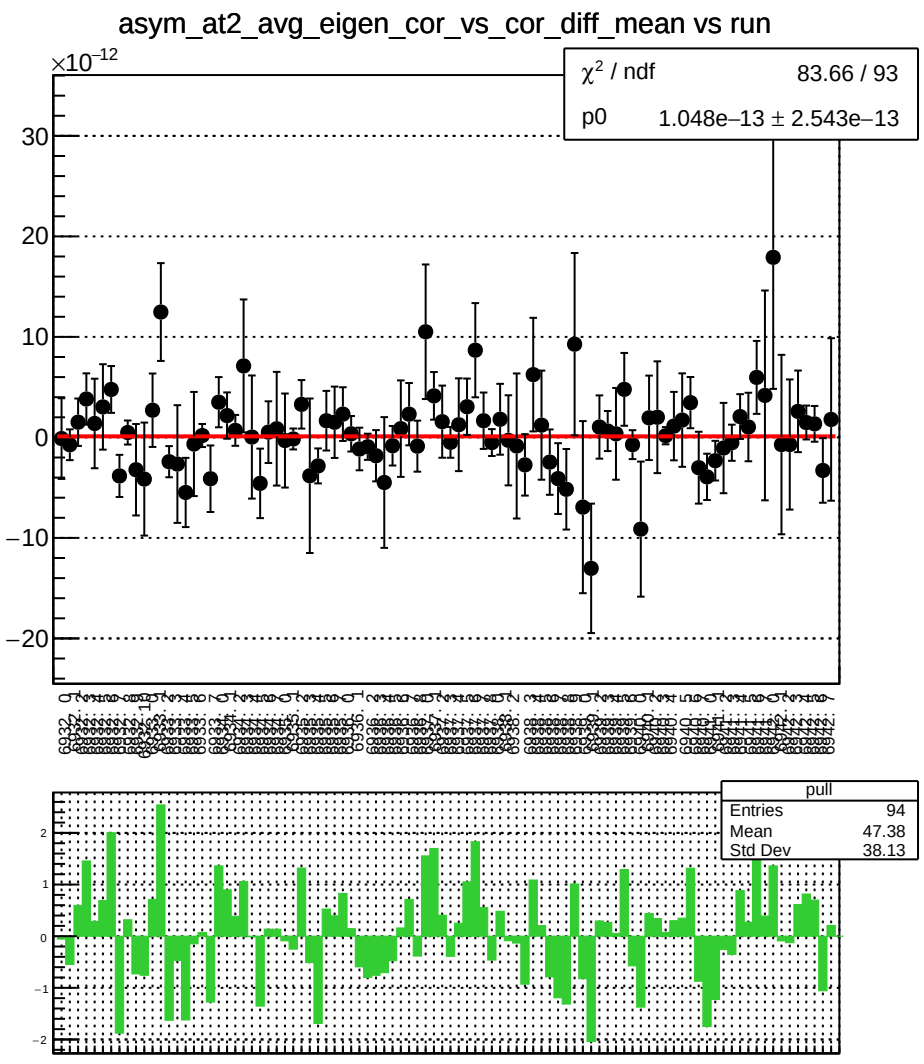

pull1D
Entries 94
Mean −0.002587
Std Dev 0.8908

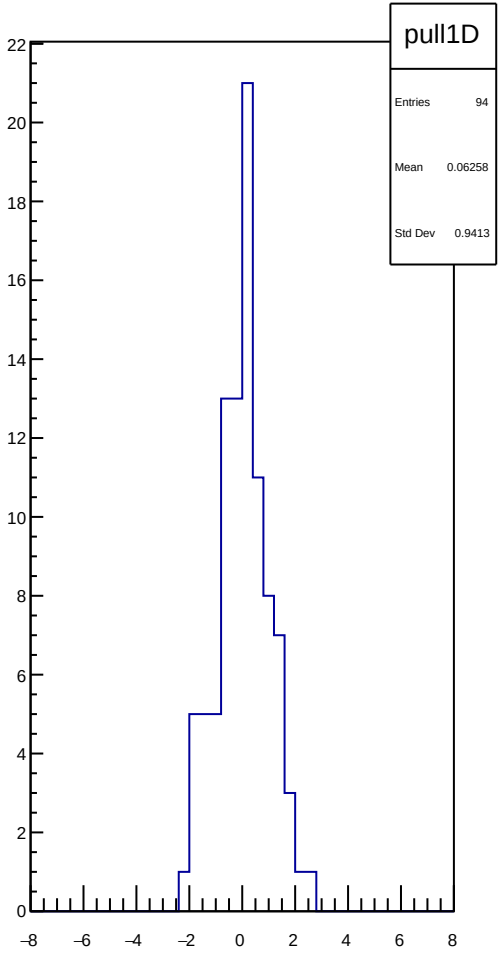

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.187e+04 / 93
p0 687.1 ± 0.5191
900
850
800
750
700
650
600
550

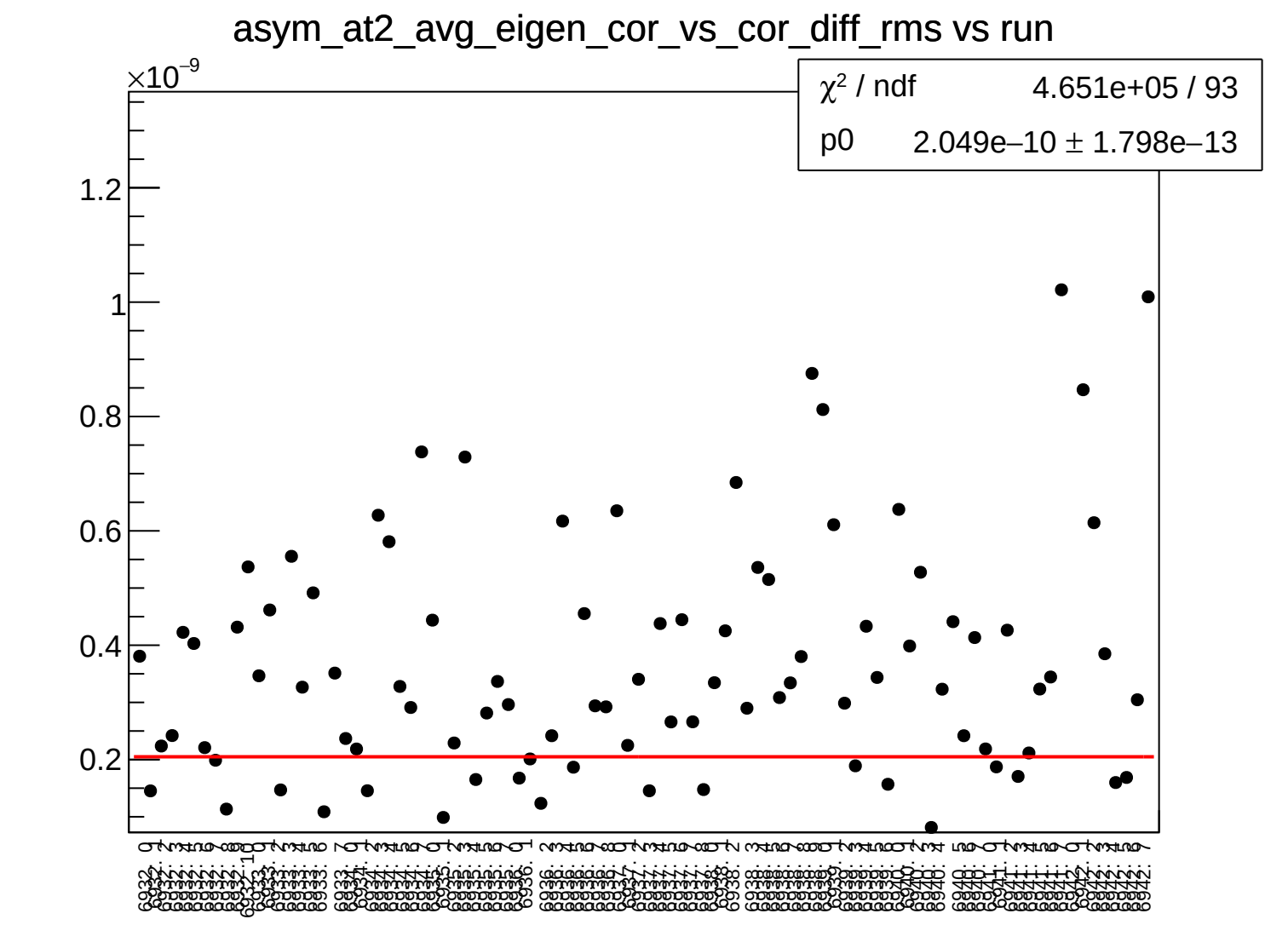

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.6 / 93
p0 0.3789 ± 0.7341
pull
Entries 94
Mean 1602
Std Dev 0

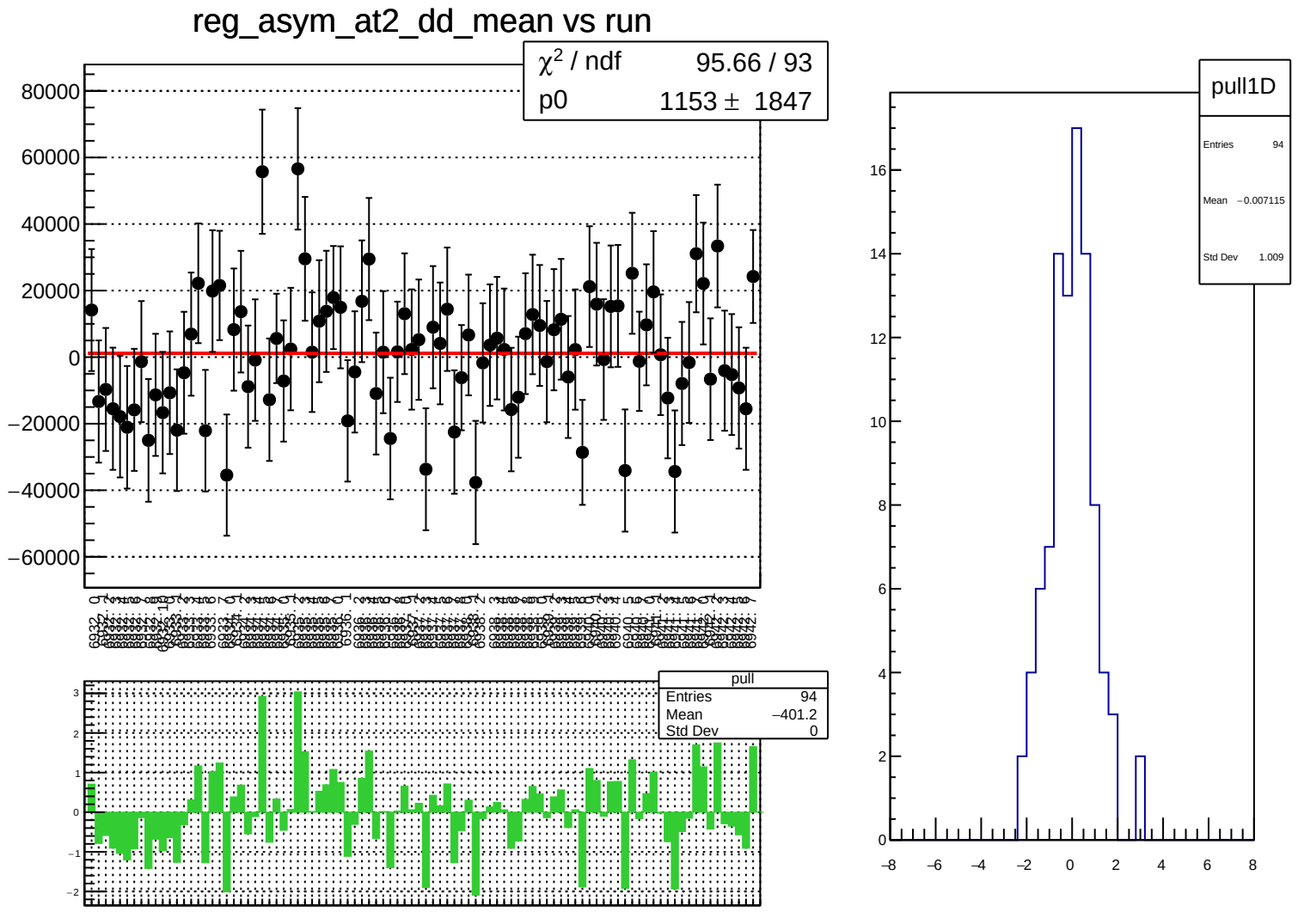

pull1D
Entries 94
Mean −0.002587
Std Dev 0.8908

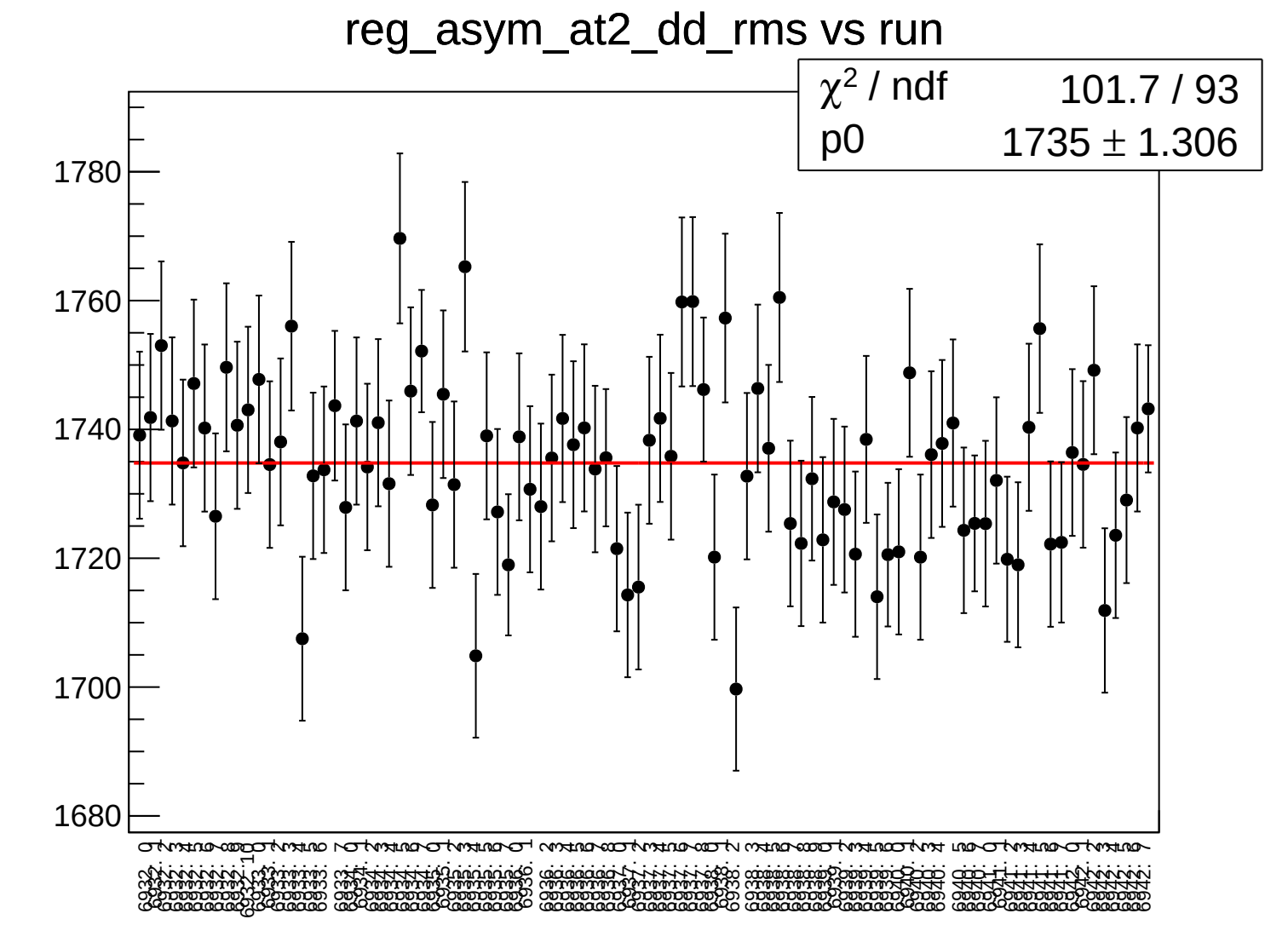

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.187e+04 / 93
p0 687.1 ± 0.5191
900
850
800
750
700
650
600
550

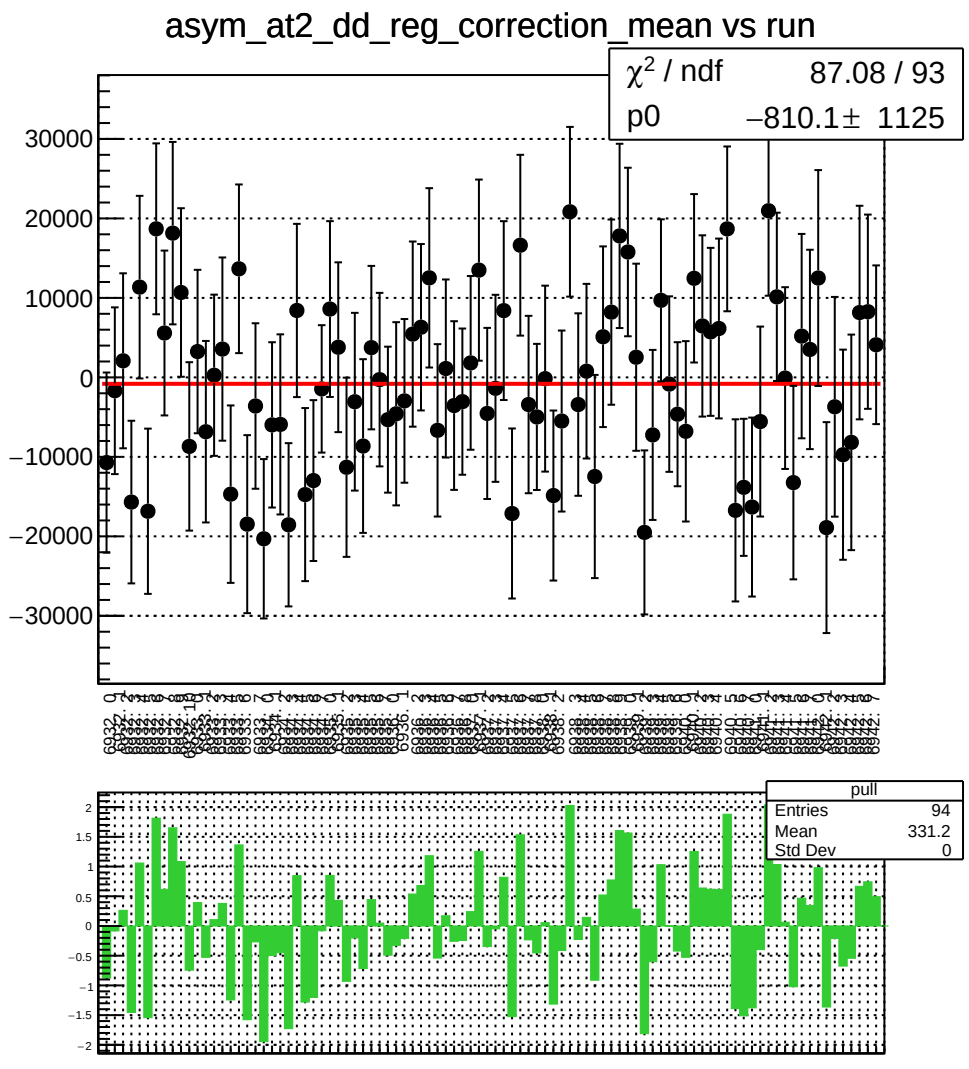

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.66 / 93
p0 1.048e−13 ± 2.543e−13
30
20
10
0
−10
−20
pull
Entries 94
Mean 47.38
Std Dev 38.13
2
1
0
−1
−2

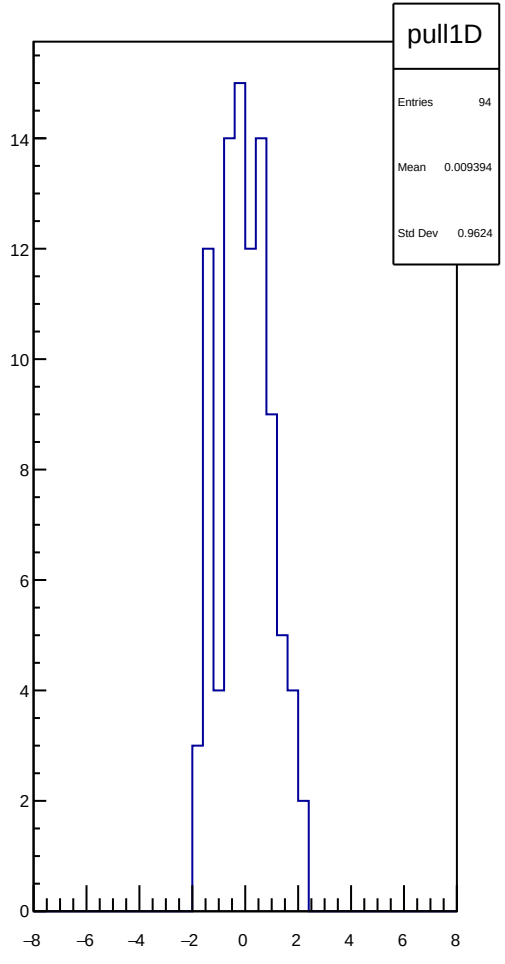

pull1D
Entries 94
Mean 0.06258
Std Dev 0.9413
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

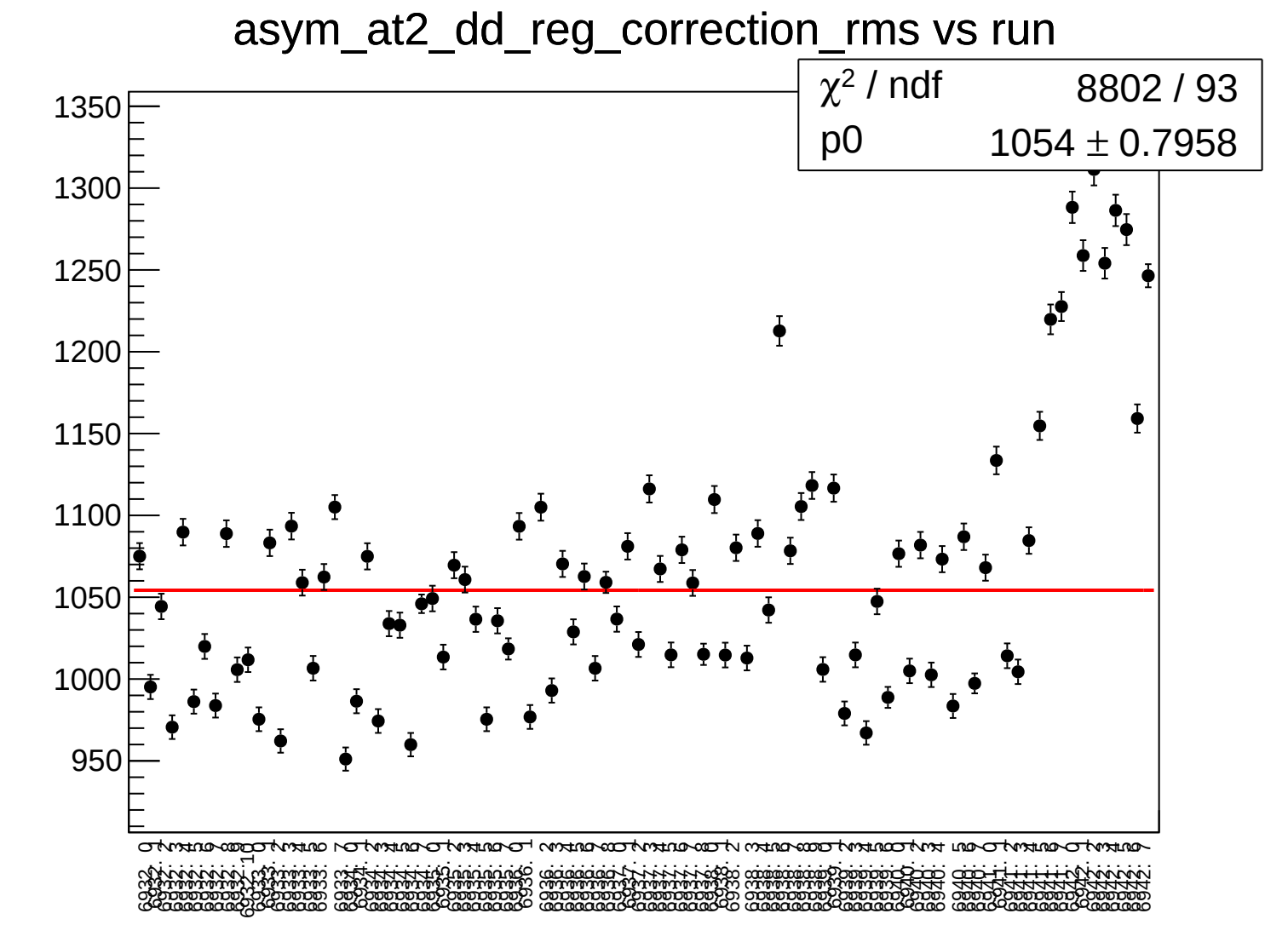

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.651e+05 / 93
p0 2.049e−10 ± 1.798e−13
1.2
1
0.8
0.6
0.4
0.2

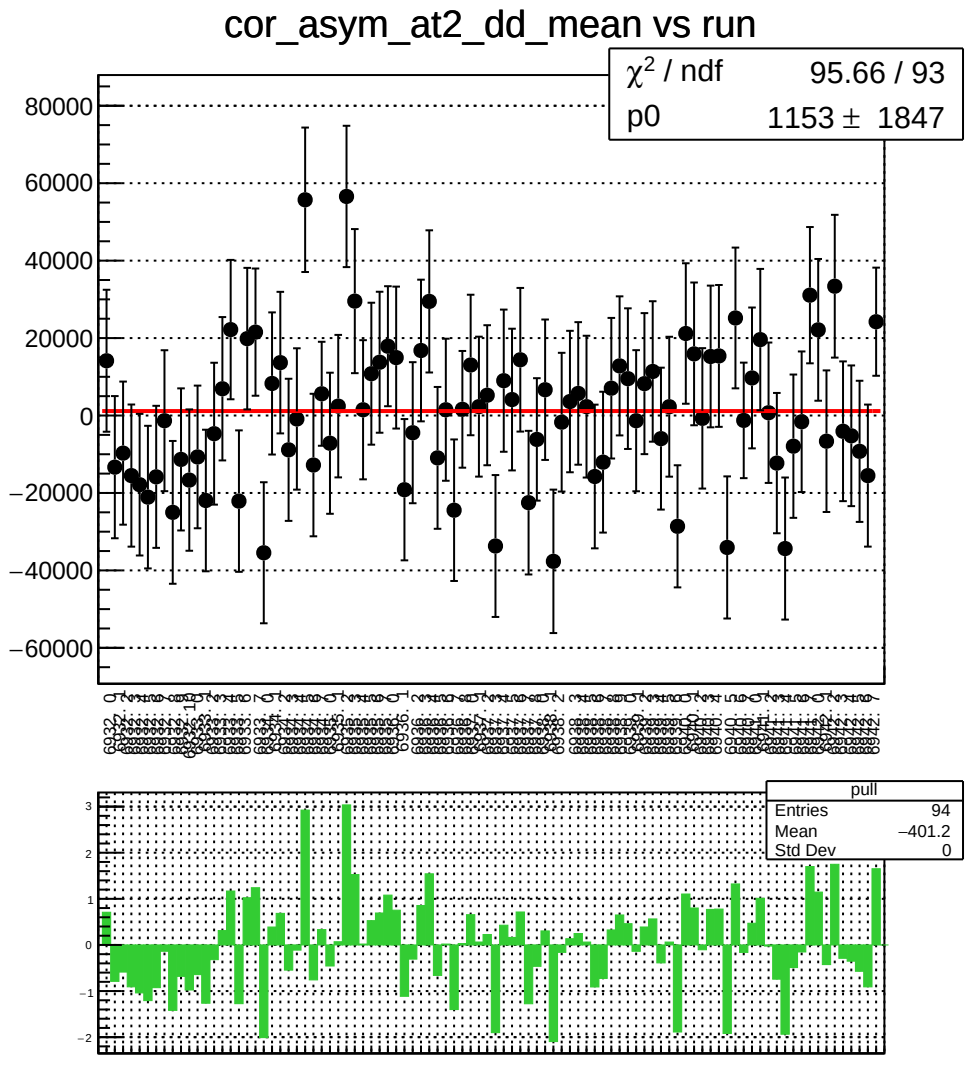

reg_asym_at2_dd_mean vs run
χ² / ndf 95.66 / 93
p0 1153 ± 1847
pull
Entries 94
Mean −401.2
Std Dev 0
pull1D
Entries 94
Mean −0.007115
Std Dev 1.009

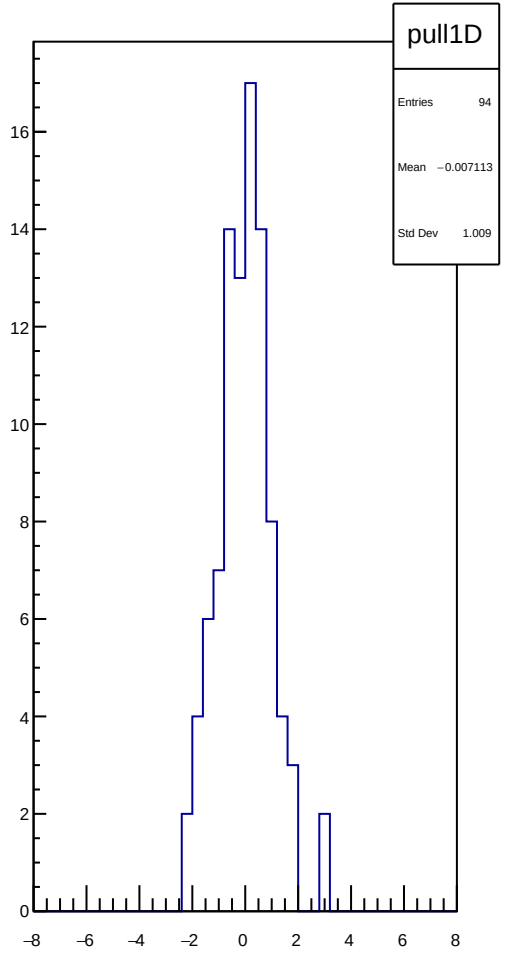

reg_asym_at2_dd_rms vs run
χ^2 / ndf 101.7 / 93
p0 1735 ± 1.306
1780
1760
1740
1720
1700
1680

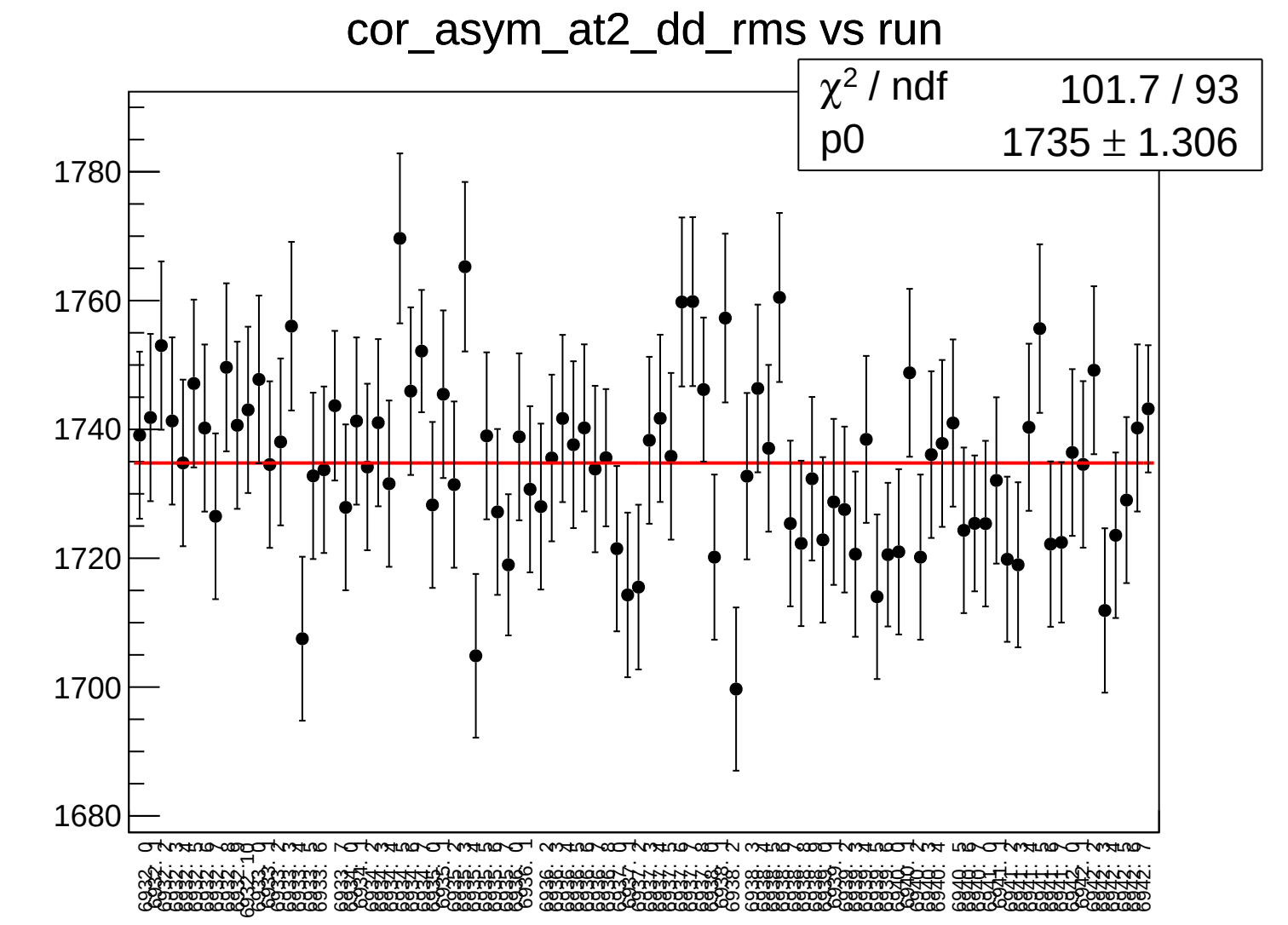

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 87.08 / 93
p0 −810.1± 1125
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 331.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

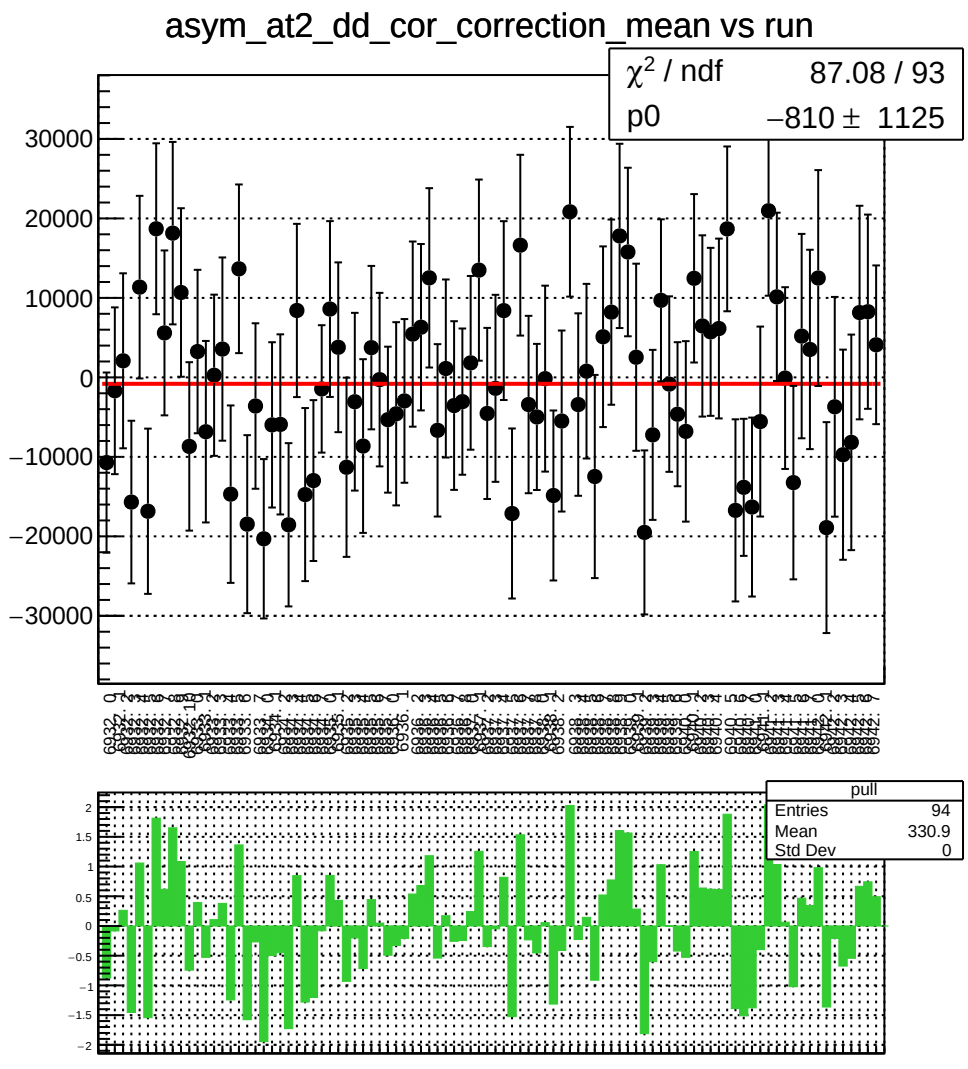

pull1D
Entries 94
Mean 0.009394
Std Dev 0.9624
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

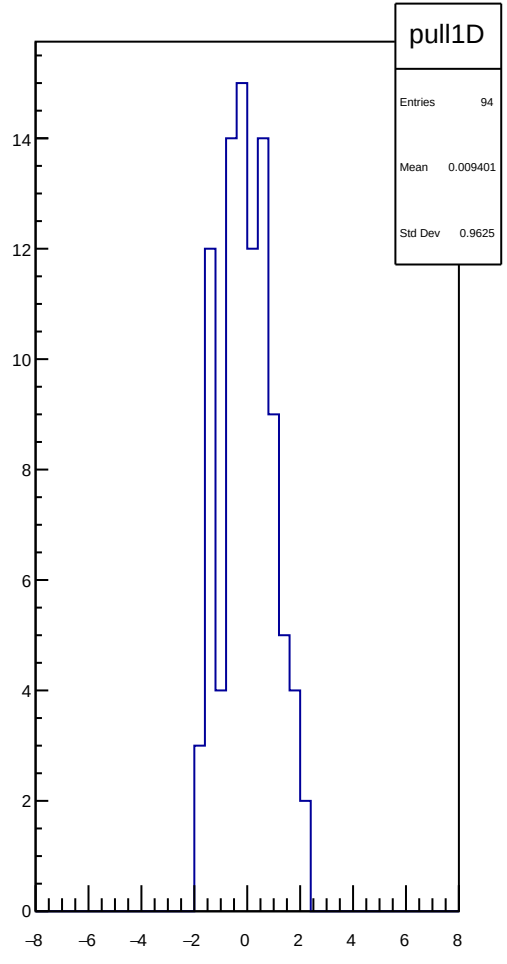

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 8802 / 93
p0 1054 ± 0.7958
1350
1300
1250
1200
1150
1100
1050
1000
950

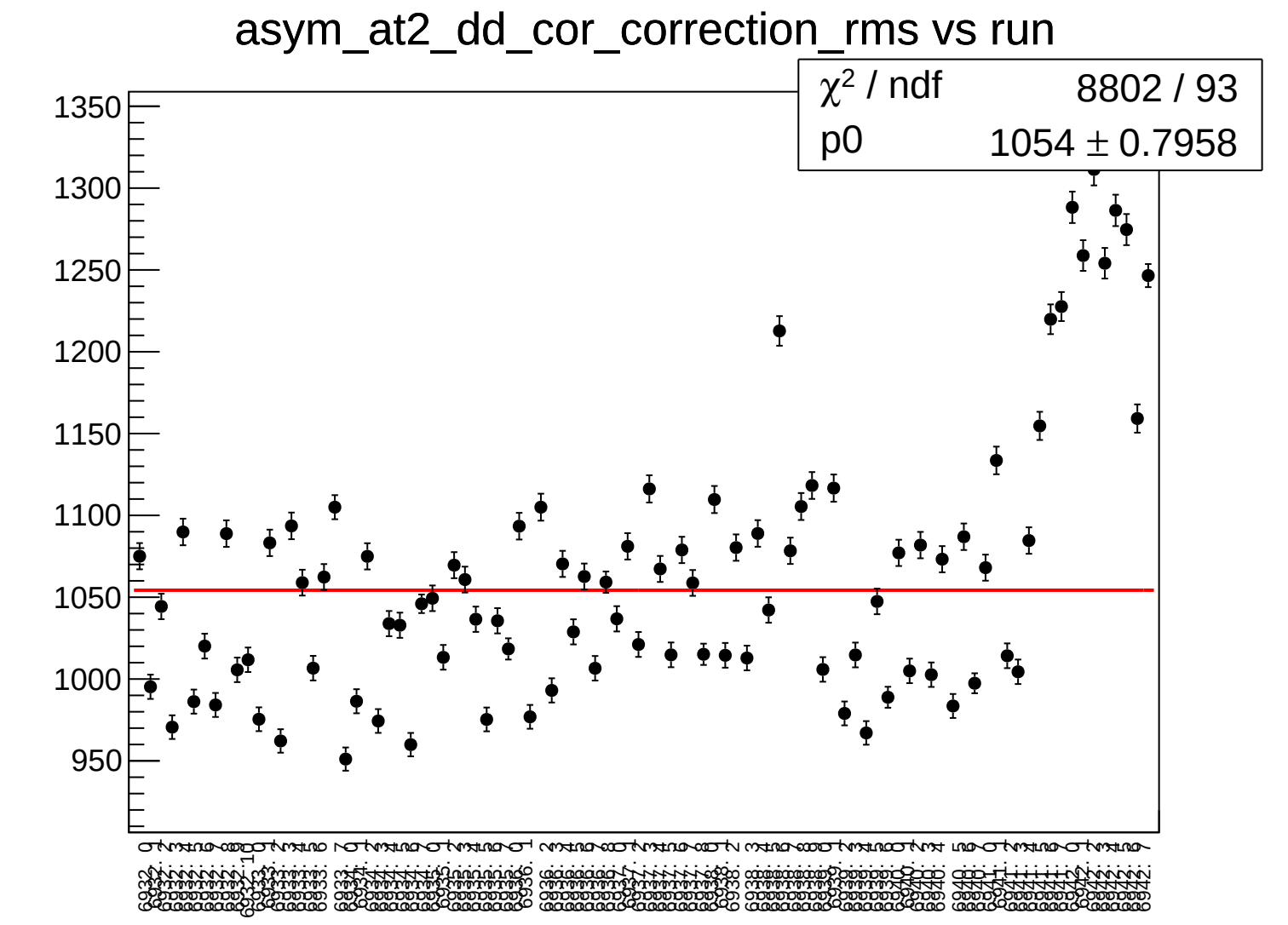

cor_asym_at2_dd_mean vs run
χ² / ndf 95.66 / 93
p0 1153 ± 1847
pull
Entries 94
Mean −401.2
Std Dev 0

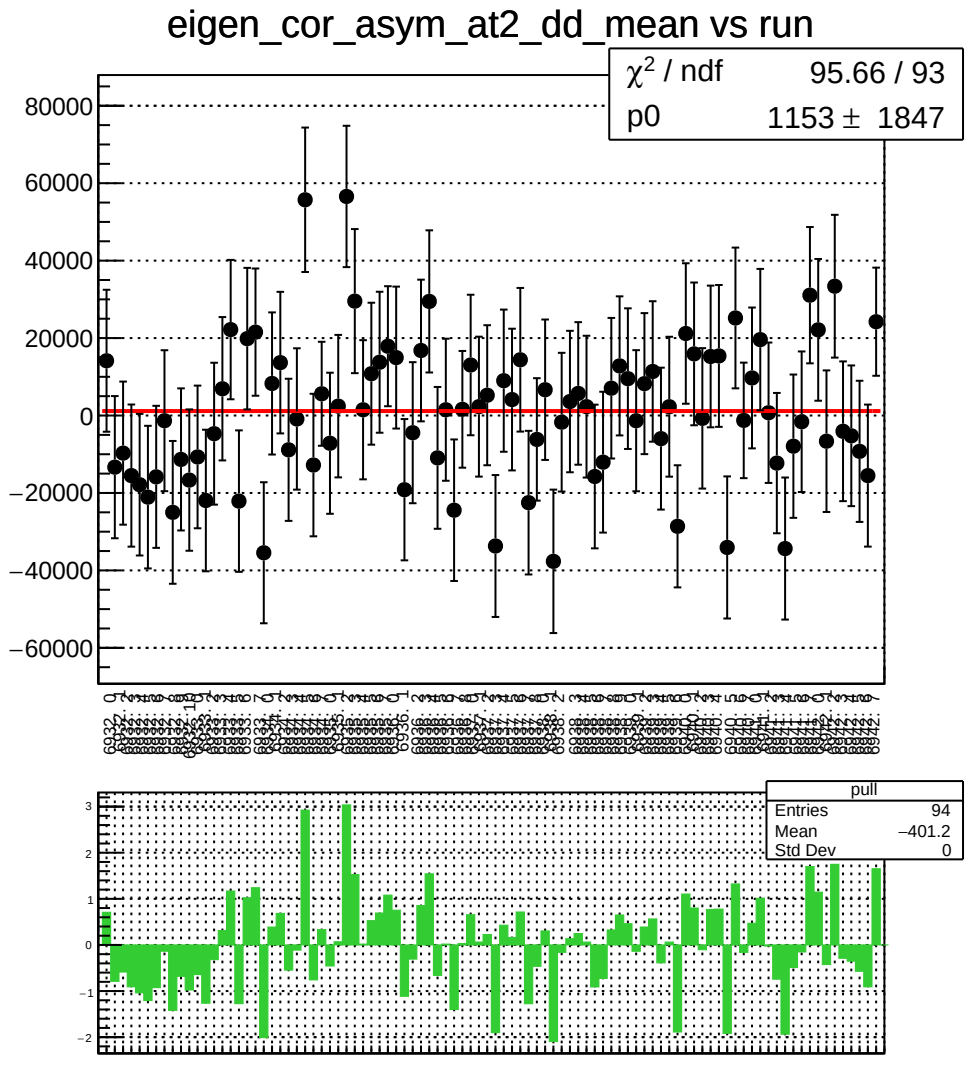

pull1D
Entries 94
Mean −0.007113
Std Dev 1.009

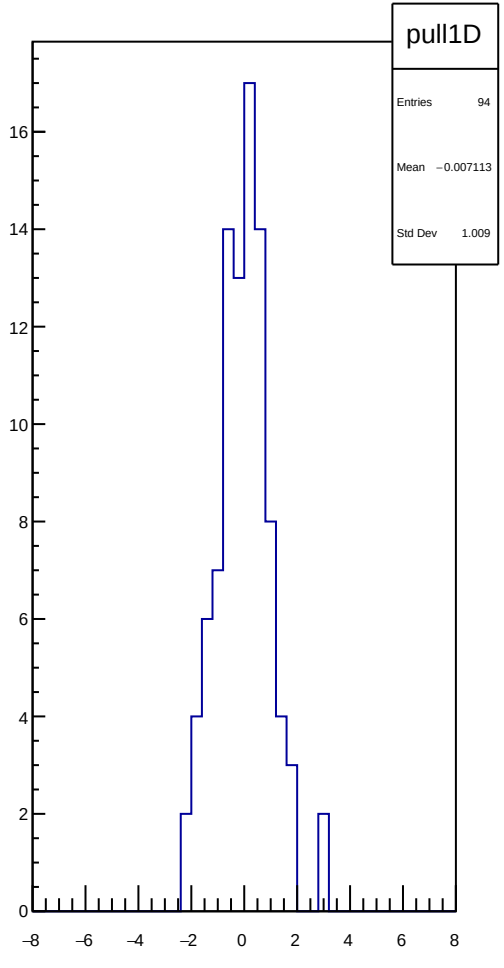

cor_asym_at2_dd_rms vs run
χ^2 / ndf 101.7 / 93
p0 1735 ± 1.306
1780
1760
1740
1720
1700
1680

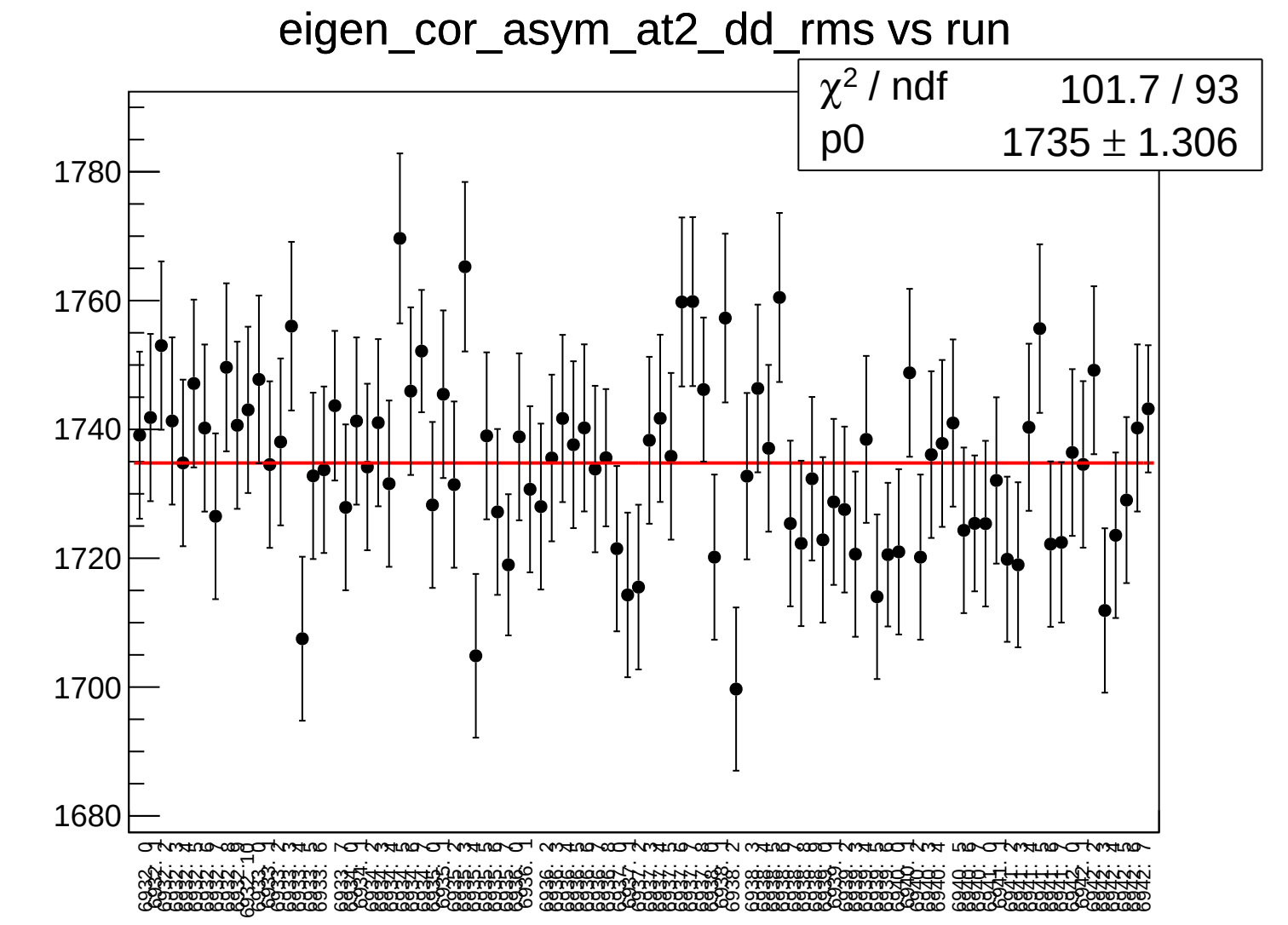

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 87.08 / 93
p0 −810 ± 1125
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 330.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

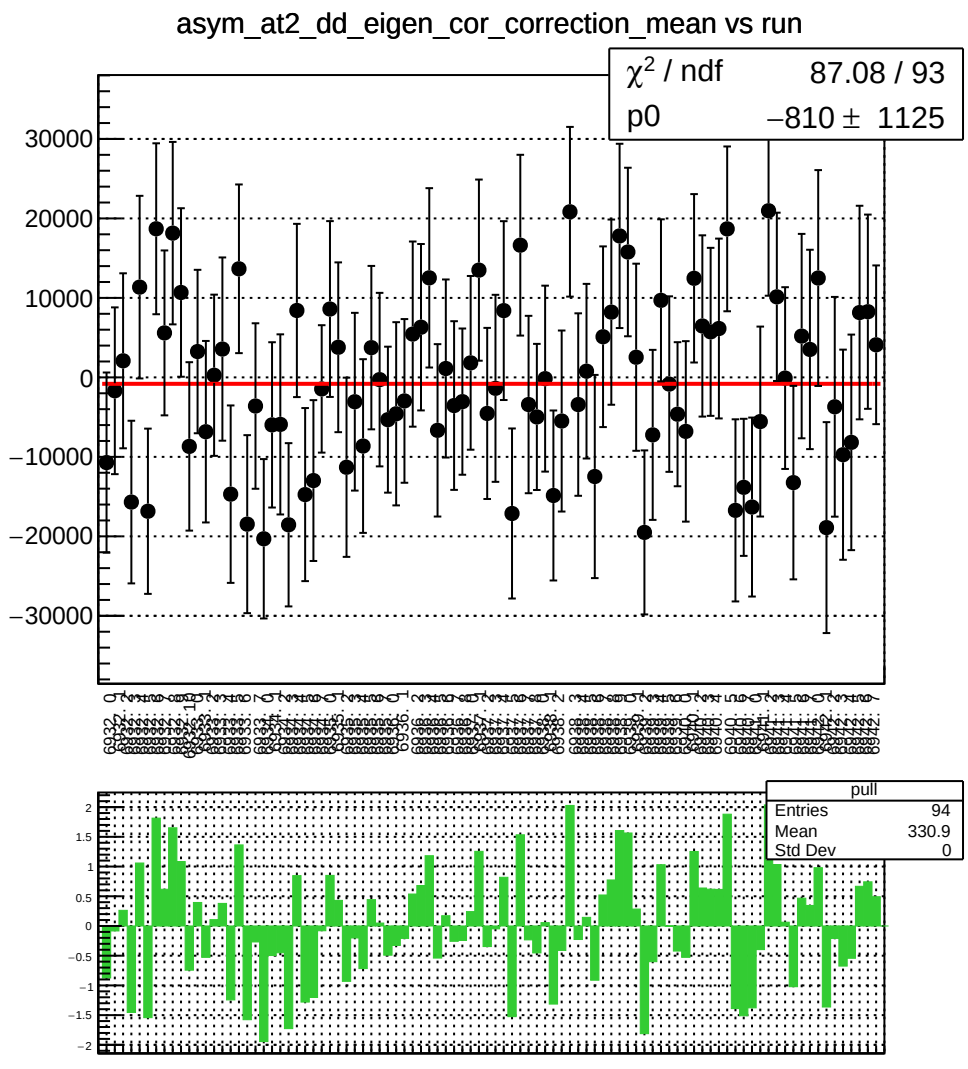

pull1D
Entries 94
Mean 0.009401
Std Dev 0.9625
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

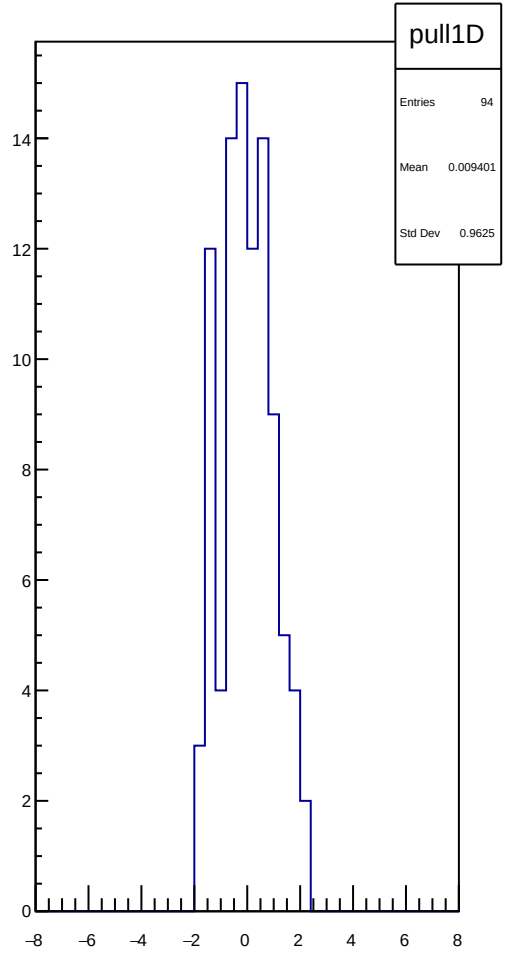

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 8802 / 93
p0 1054 ± 0.7958
1350
1300
1250
1200
1150
1100
1050
1000
950

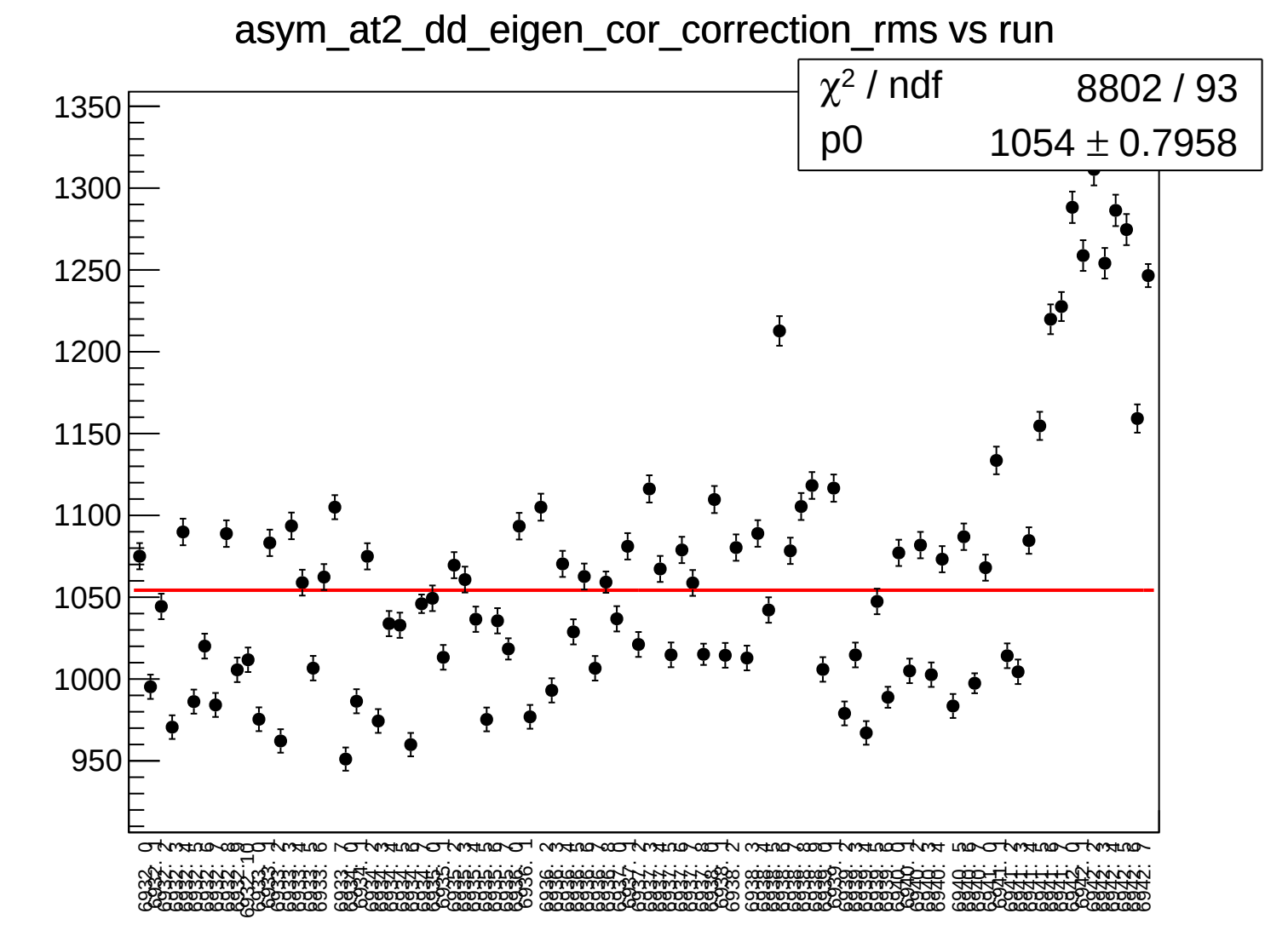

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 95.66 / 93
p0 1153 ± 1847
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −401.2
Std Dev 0
3
2
1
0
−1
−2

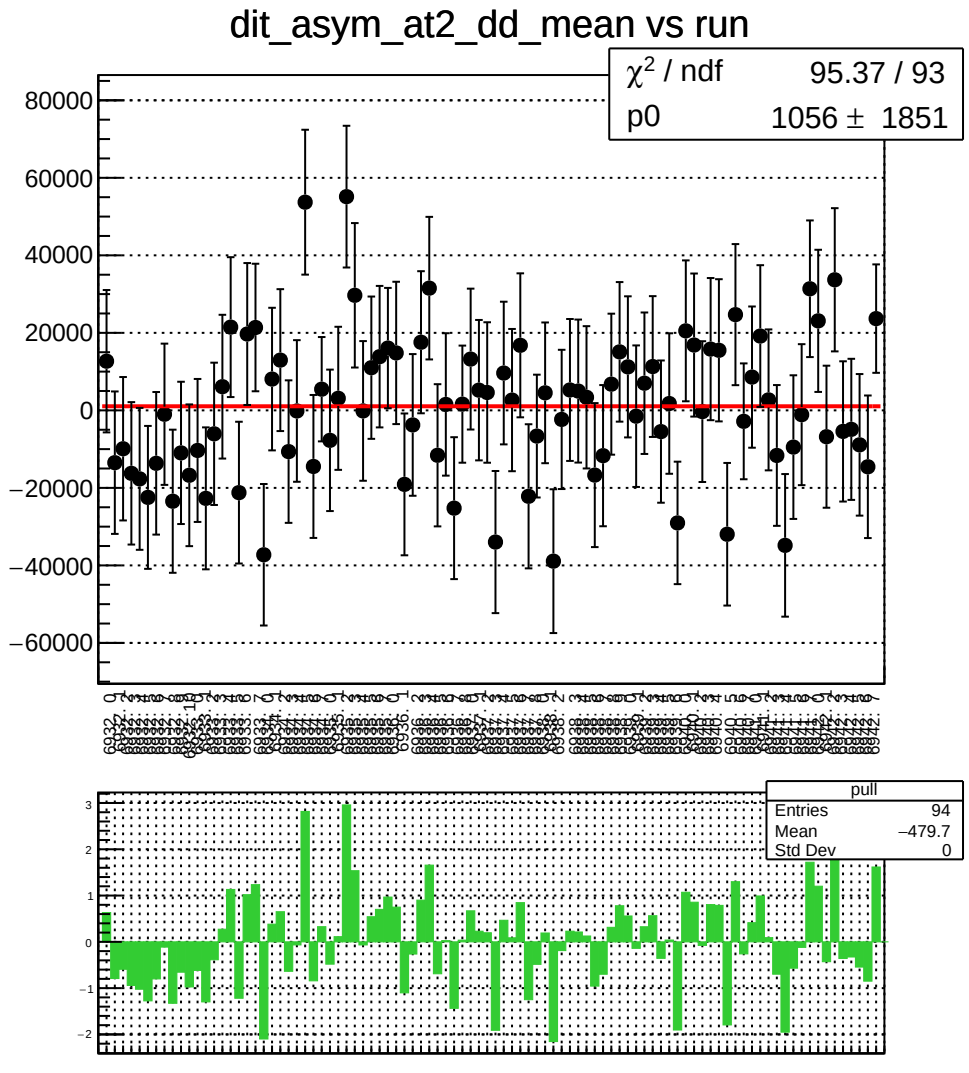

pull1D
Entries 94
Mean −0.007113
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

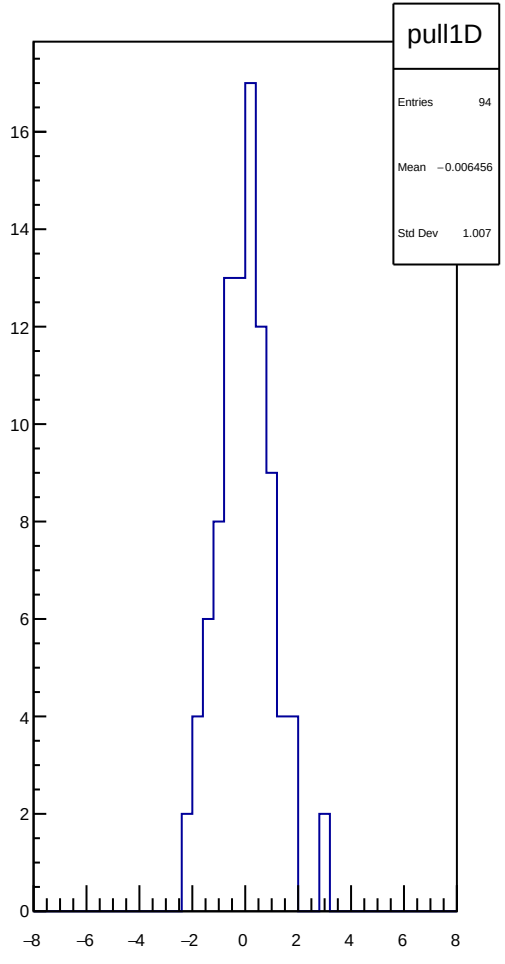

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 101.7 / 93
p0 1735 ± 1.306
1780
1760
1740
1720
1700
1680

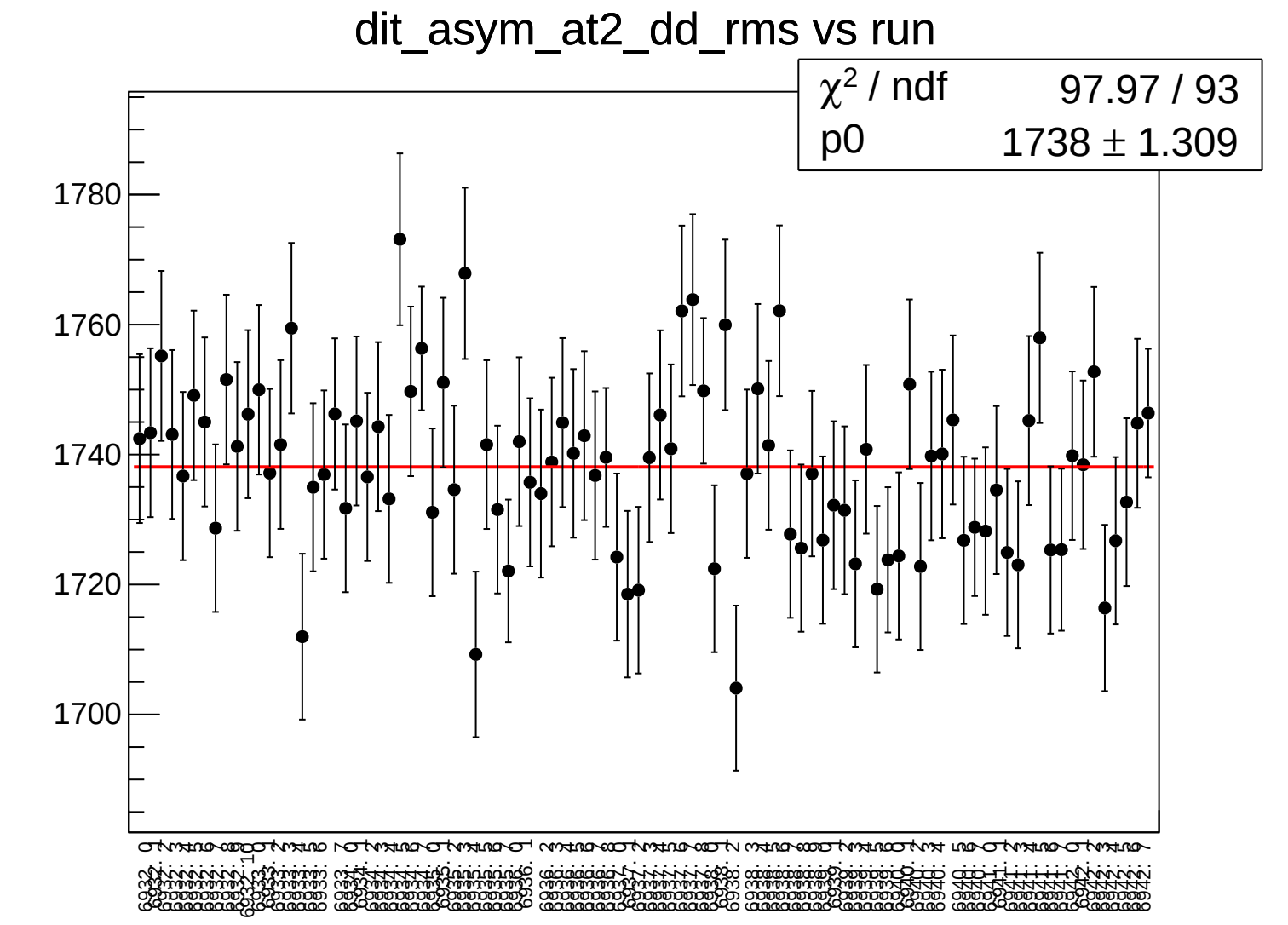

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.08 / 93
p0 −810 ± 1125
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 330.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

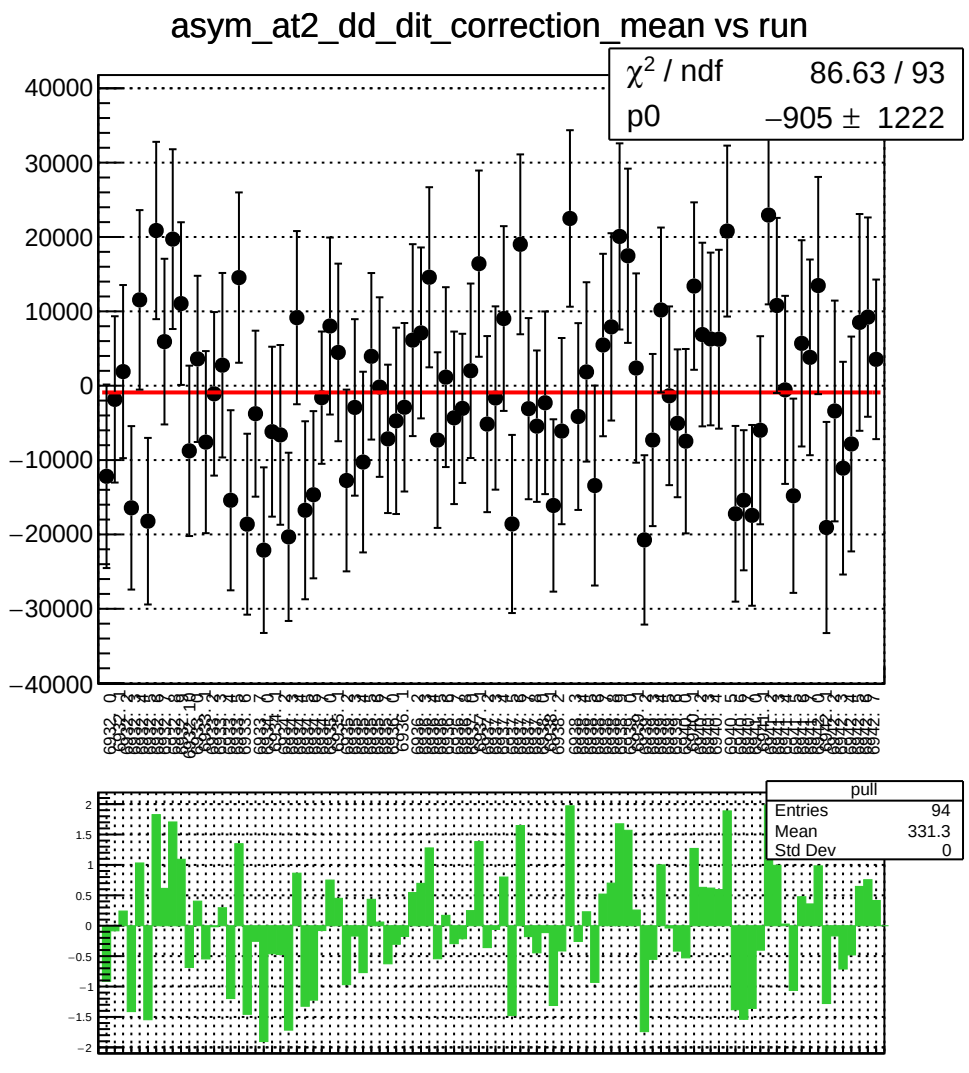

pull1D
Entries 94
Mean 0.009401
Std Dev 0.9625
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

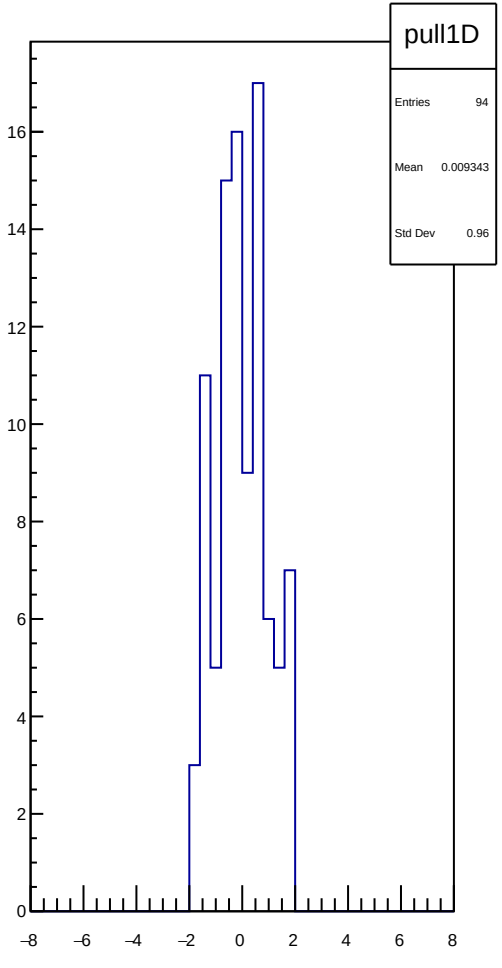

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8802 / 93
p0 1054 ± 0.7958
1350
1300
1250
1200
1150
1100
1050
1000
950

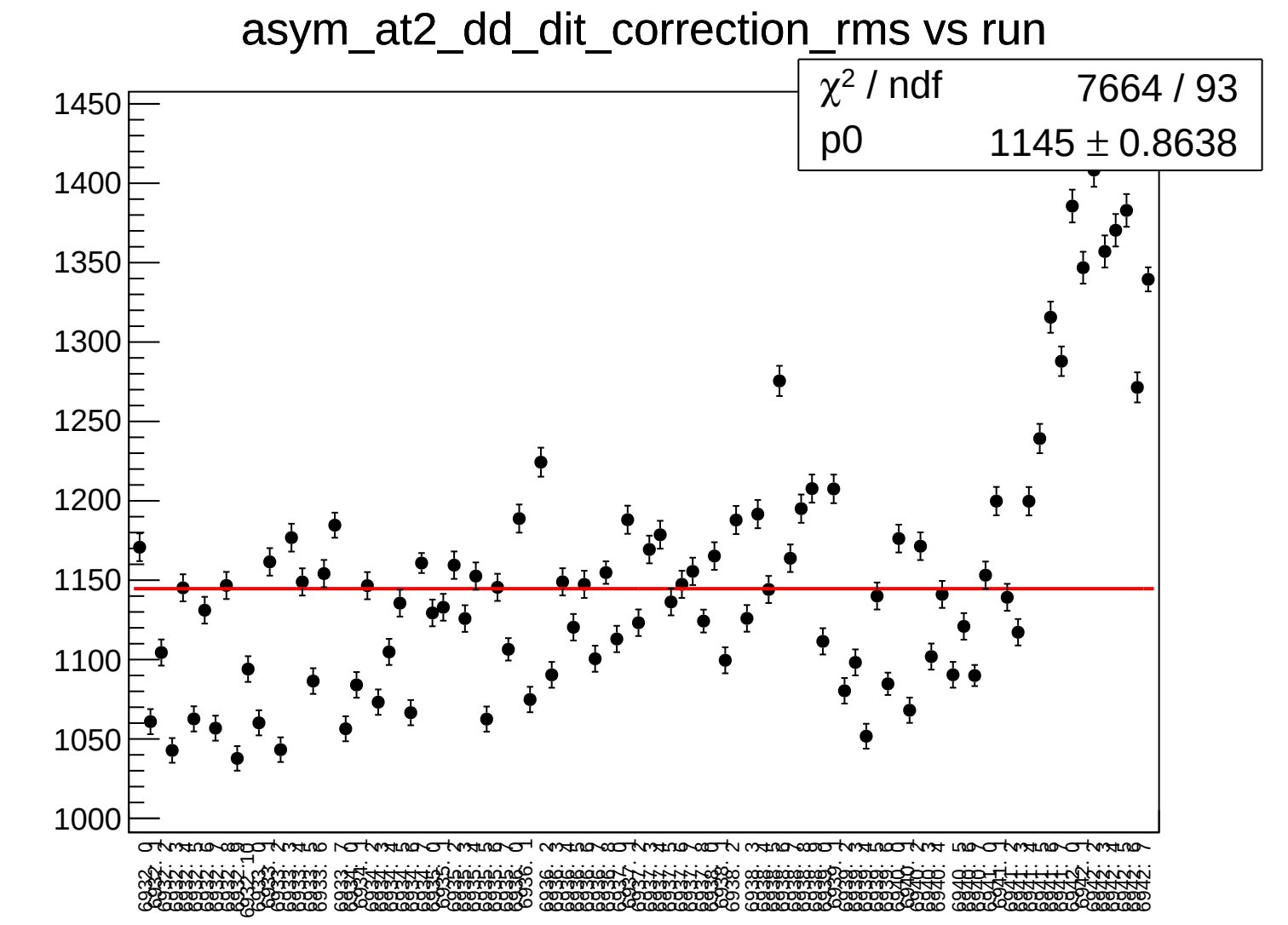

dit_asym_at2_dd_mean vs run
χ² / ndf 95.37 / 93
p0 1056 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −479.7
Std Dev 0
3
2
1
0
−1
−2

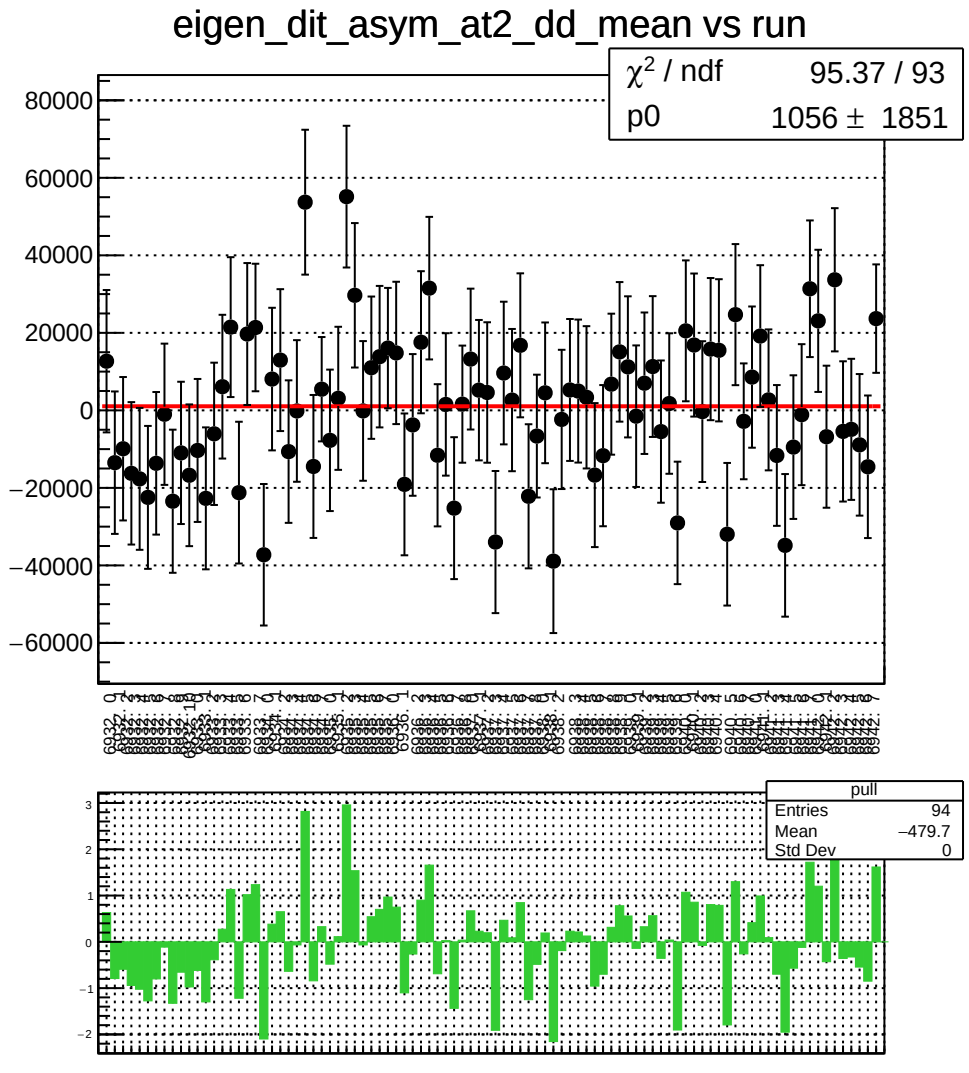

pull1D
Entries 94
Mean −0.006456
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

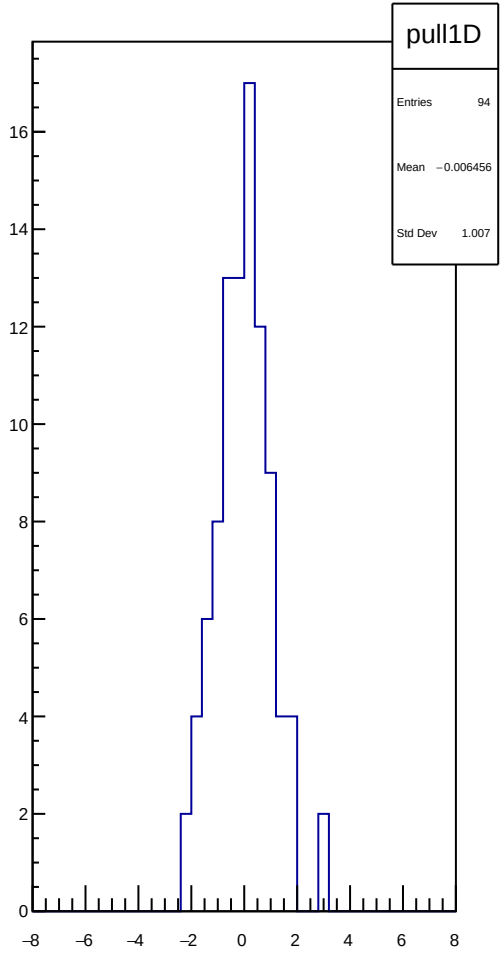

dit_asym_at2_dd_rms vs run
χ² / ndf 97.97 / 93
p0 1738 ± 1.309
1780
1760
1740
1720
1700

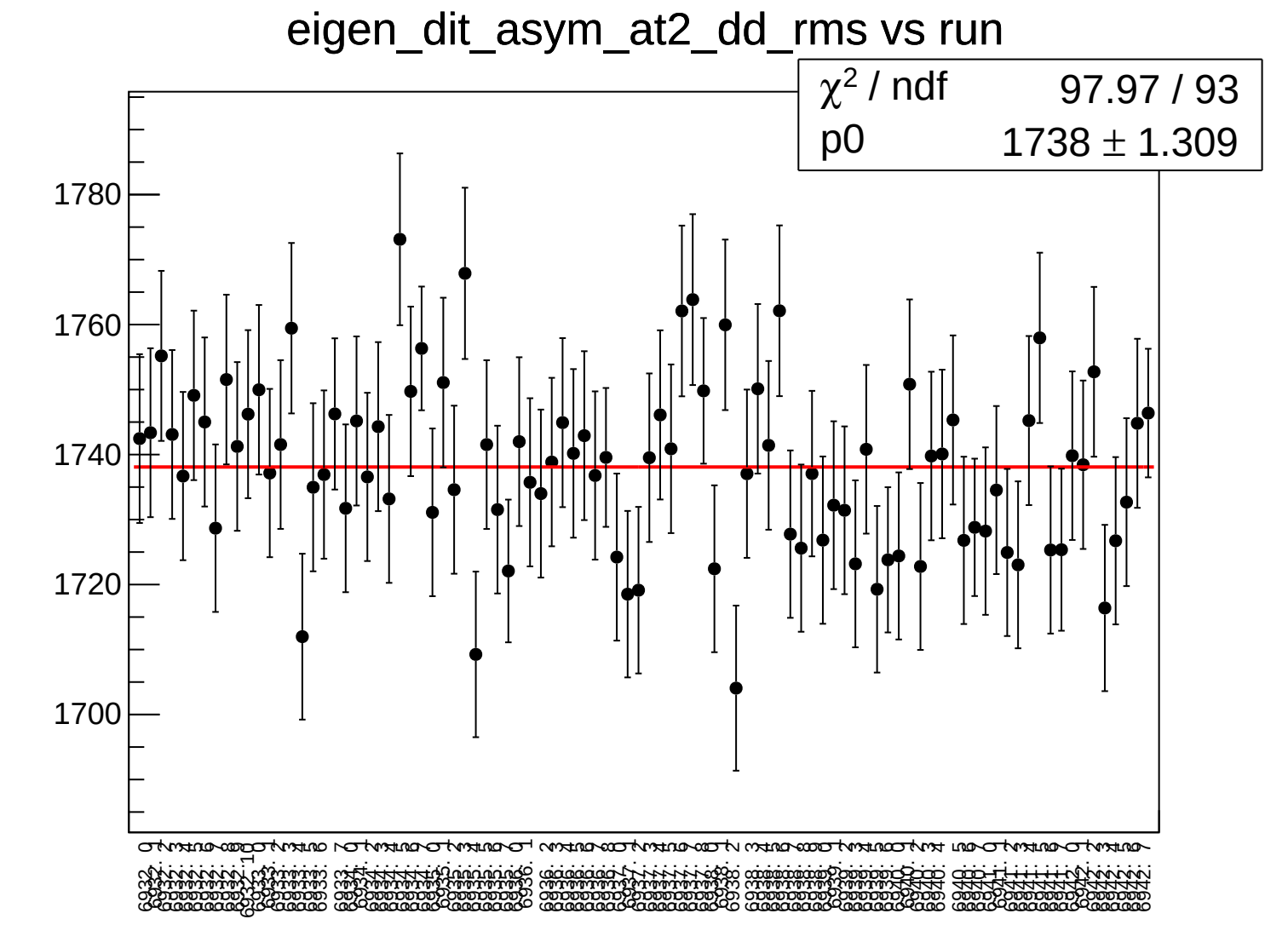

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 86.63 / 93
p0 −905 ± 1222
pull
Entries 94
Mean 331.3
Std Dev 0

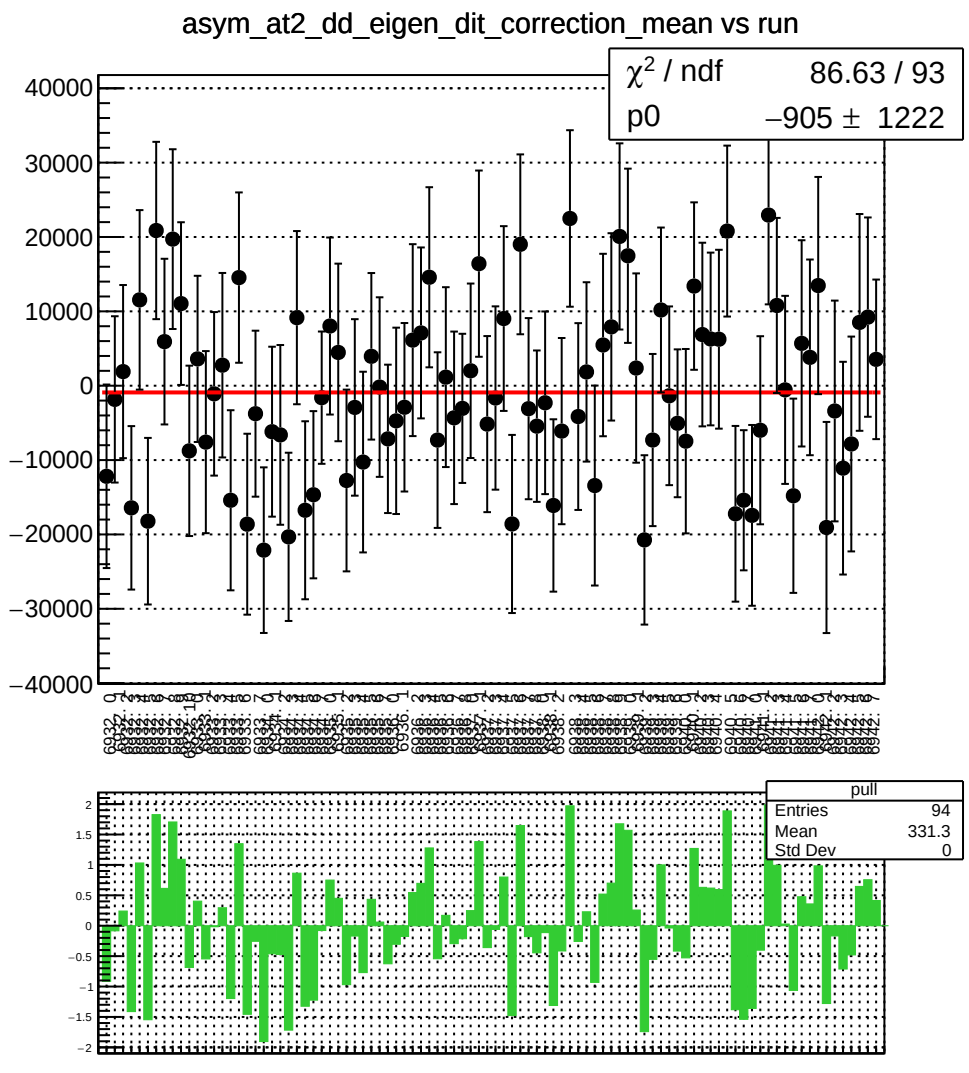

pull1D
Entries 94
Mean 0.009343
Std Dev 0.96

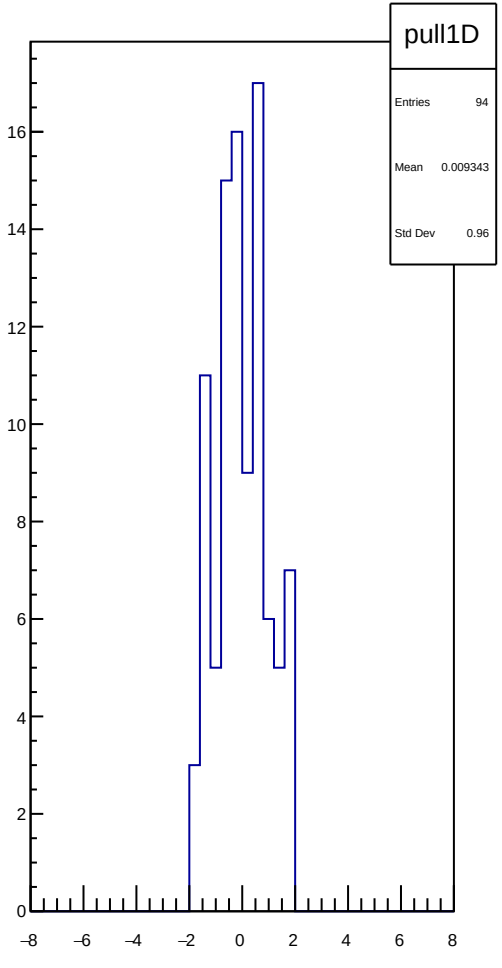

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 7664 / 93
p0 1145 ± 0.8638
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

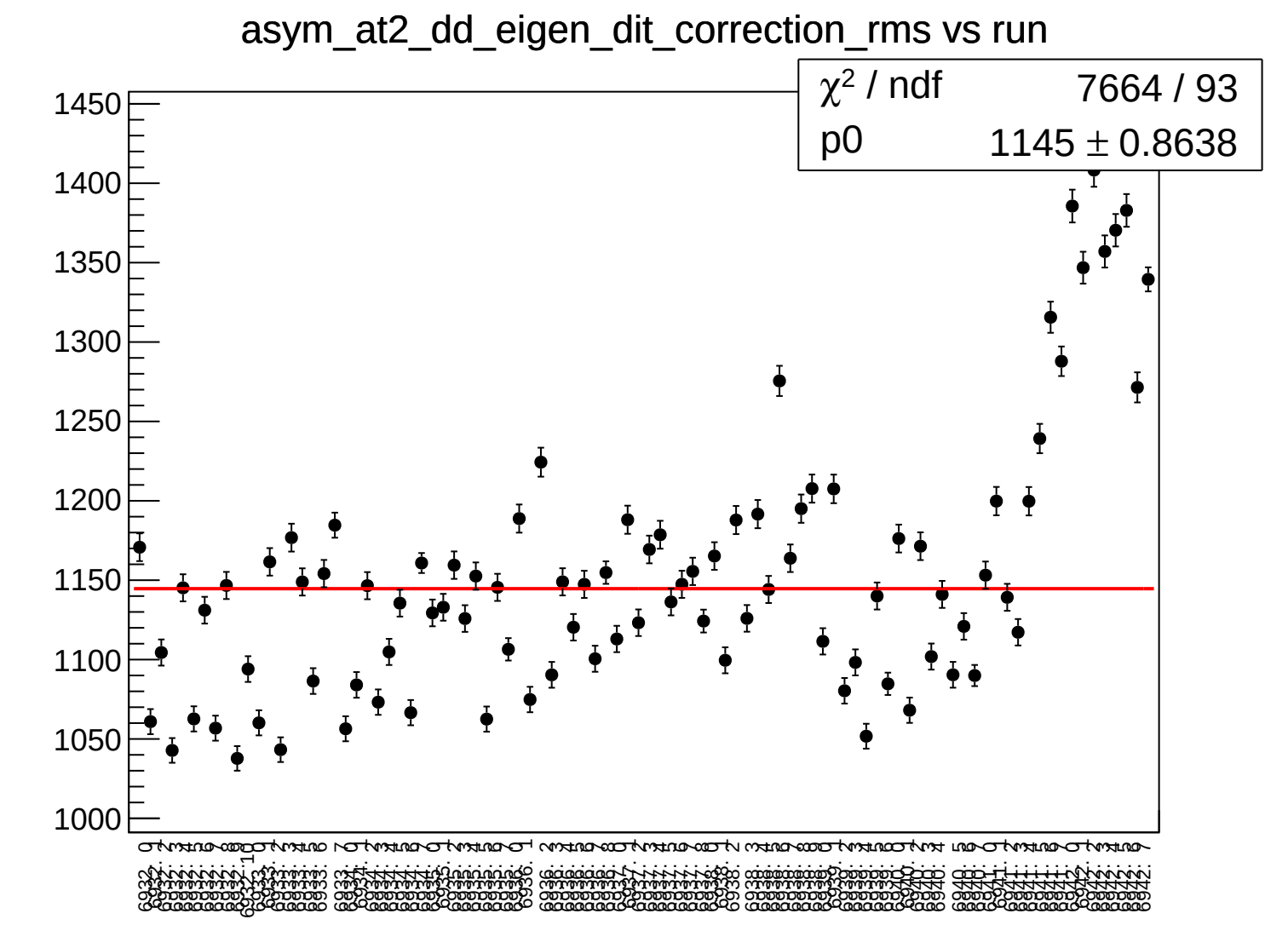

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 95.37 / 93
p0 1056 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −479.7
Std Dev 0
3
2
1
0
−1
−2

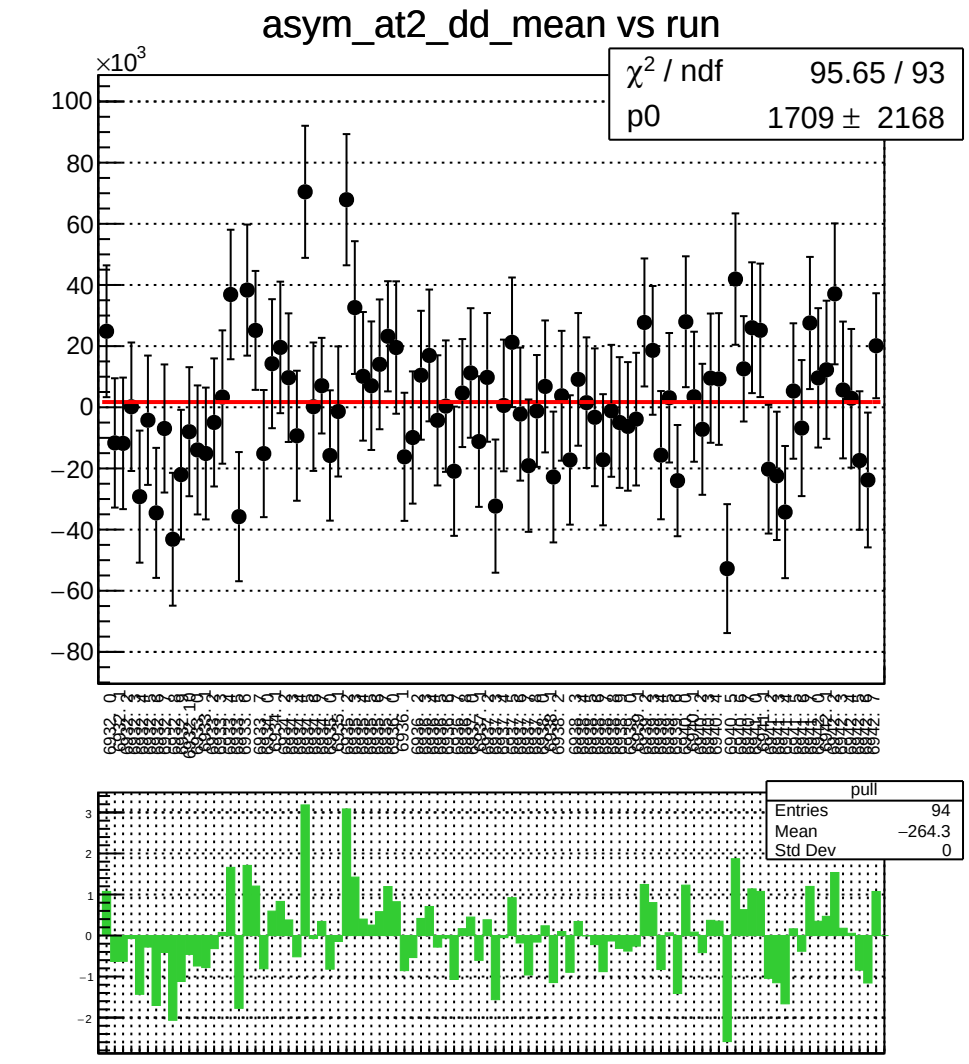

pull1D
Entries 94
Mean −0.006456
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

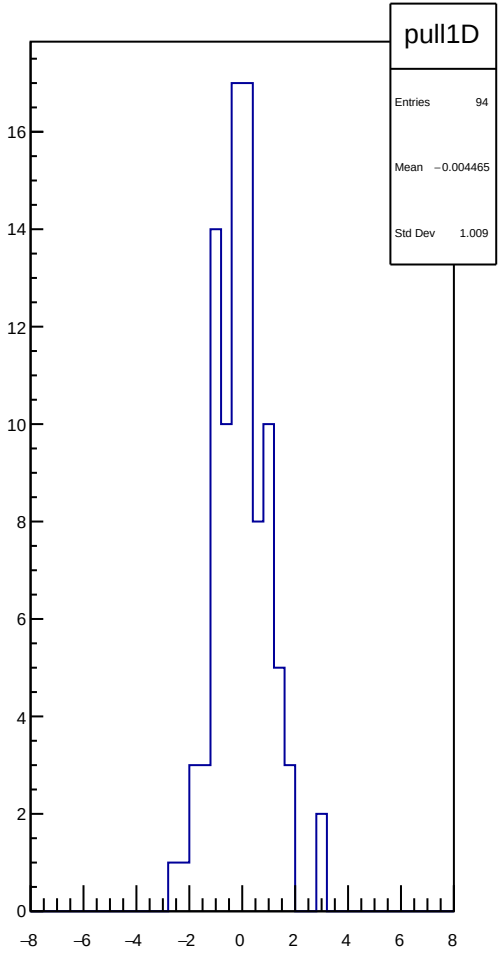

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 97.97 / 93
p0 1738 ± 1.309
1780
1760
1740
1720
1700

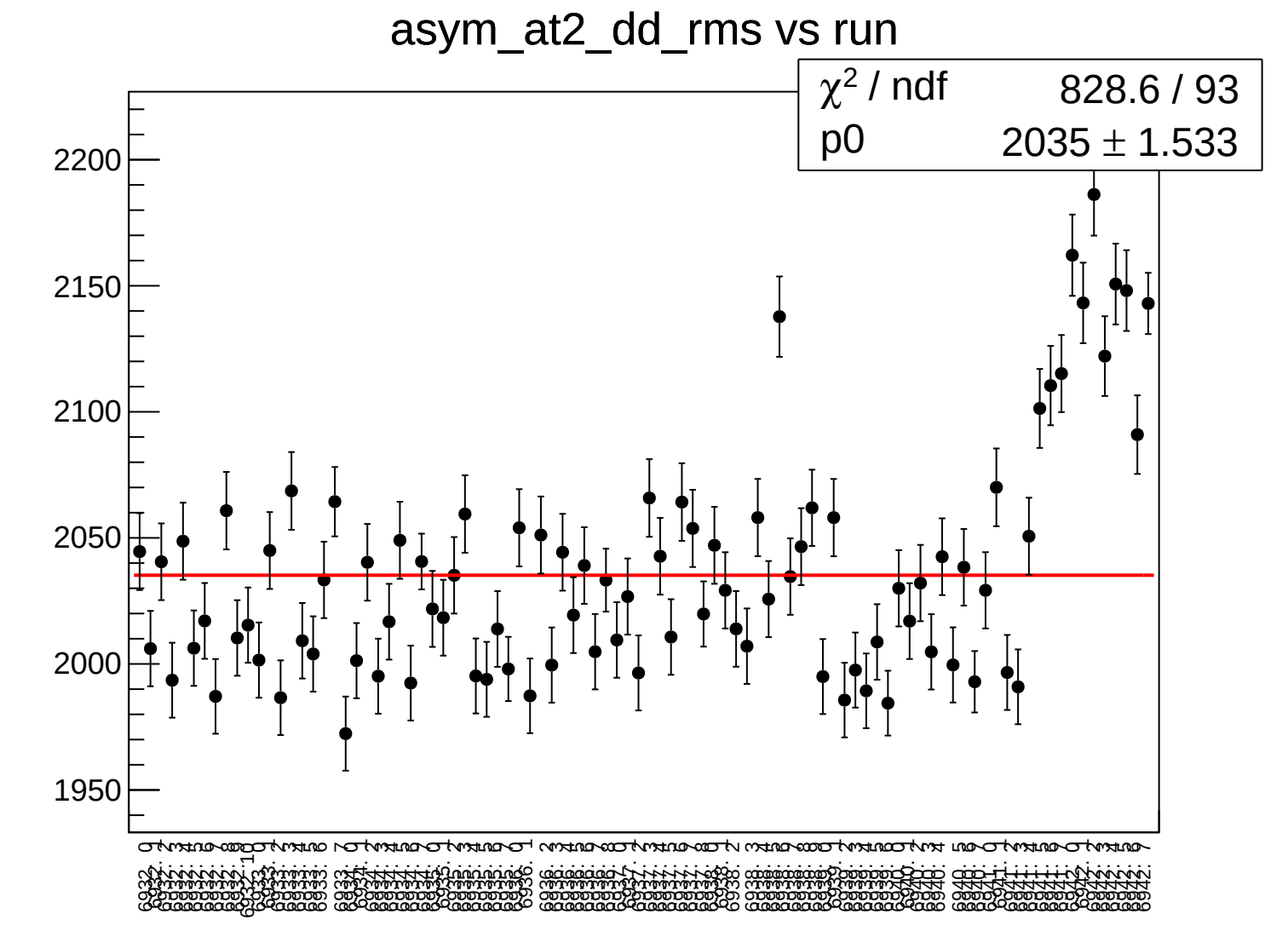

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.63 / 93
p0 −905 ± 1222
pull
Entries 94
Mean 331.3
Std Dev 0

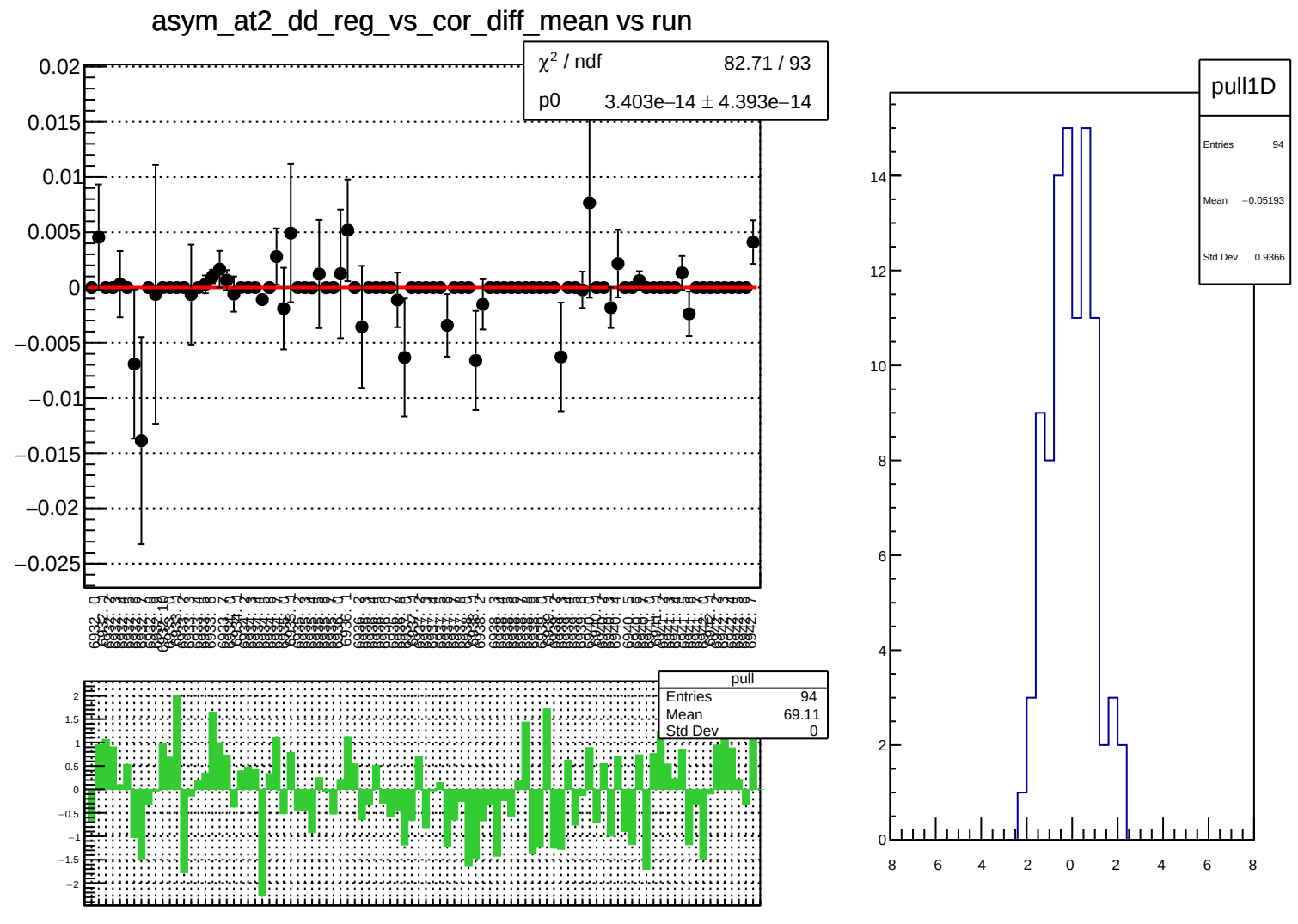

pull1D
Entries 94
Mean 0.009343
Std Dev 0.96

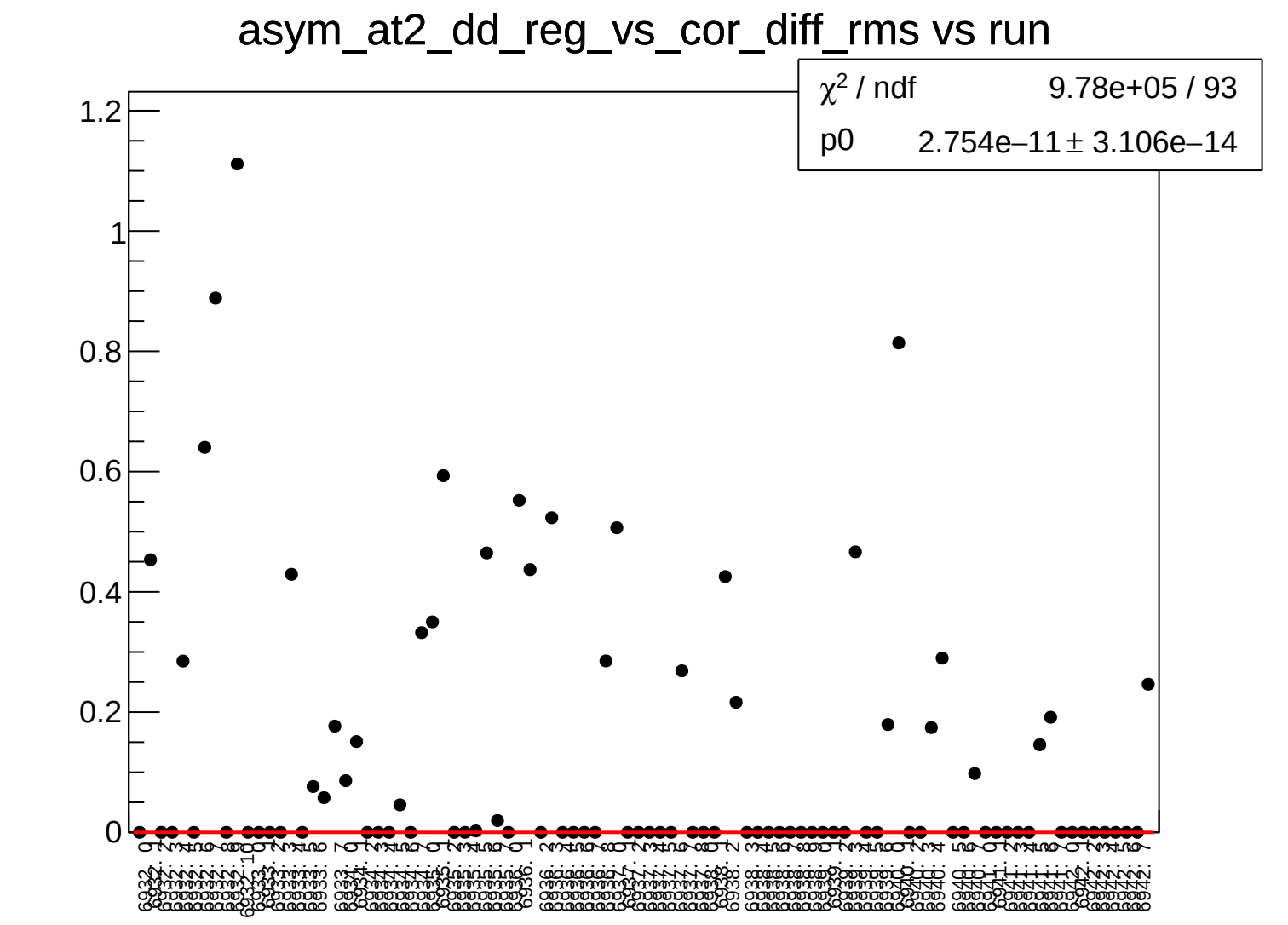

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 7664 / 93
p0 1145 ± 0.8638
1450
1400
1350
1300
1250
1200
1150
1100
1050
1000

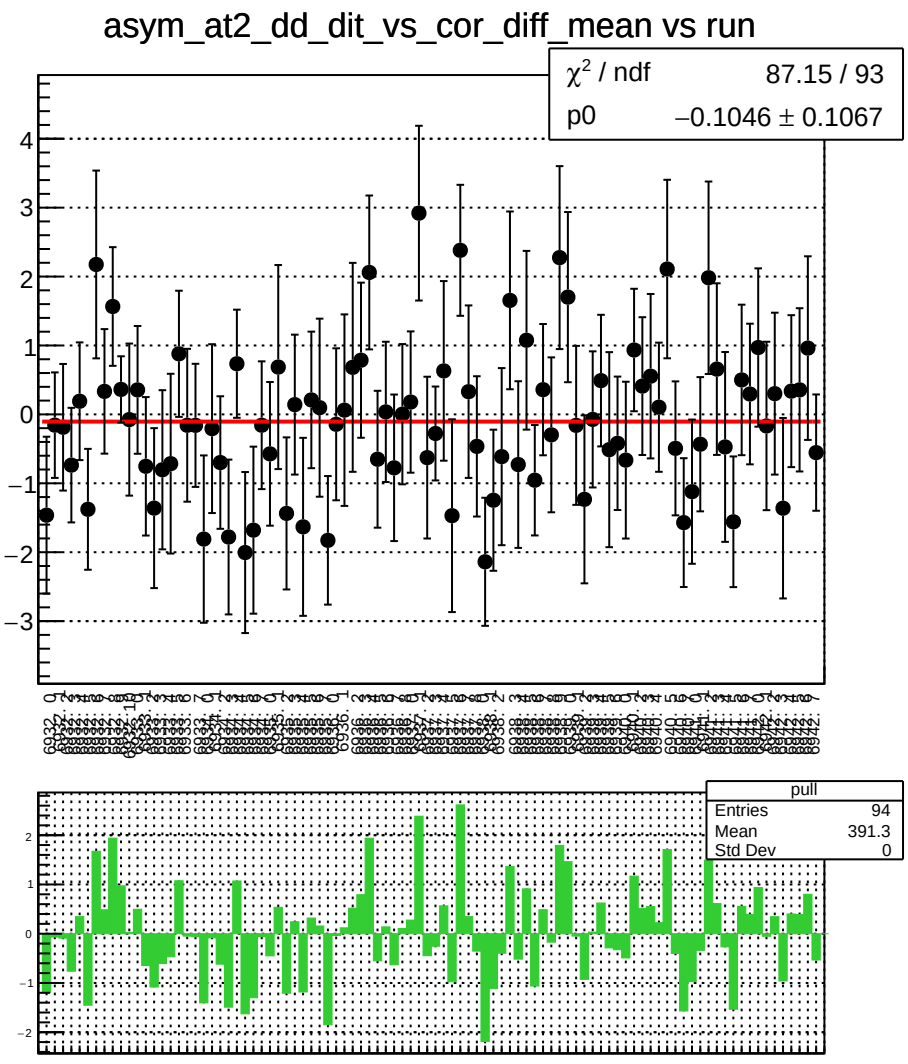

asym_at2_dd_mean vs run
×10^3
χ² / ndf 95.65 / 93
p0 1709 ± 2168
pull
Entries 94
Mean −264.3
Std Dev 0

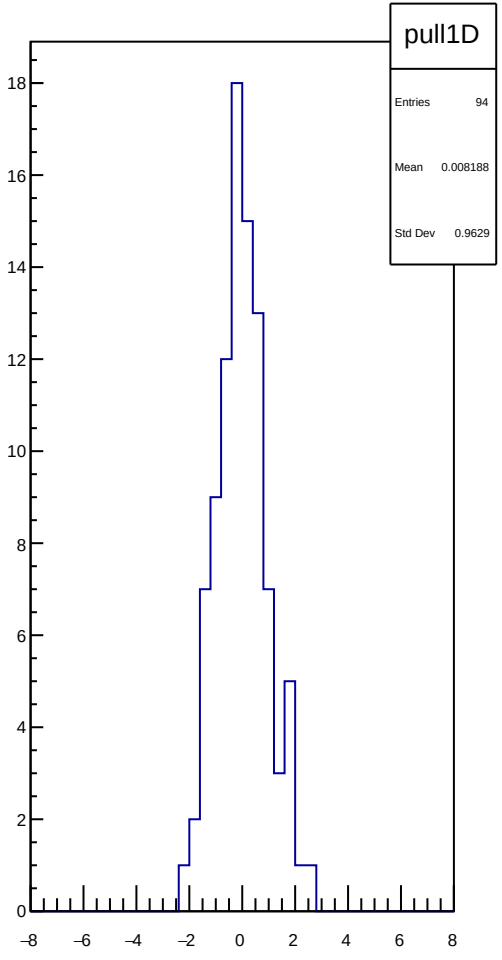

pull1D
Entries 94
Mean −0.004465
Std Dev 1.009

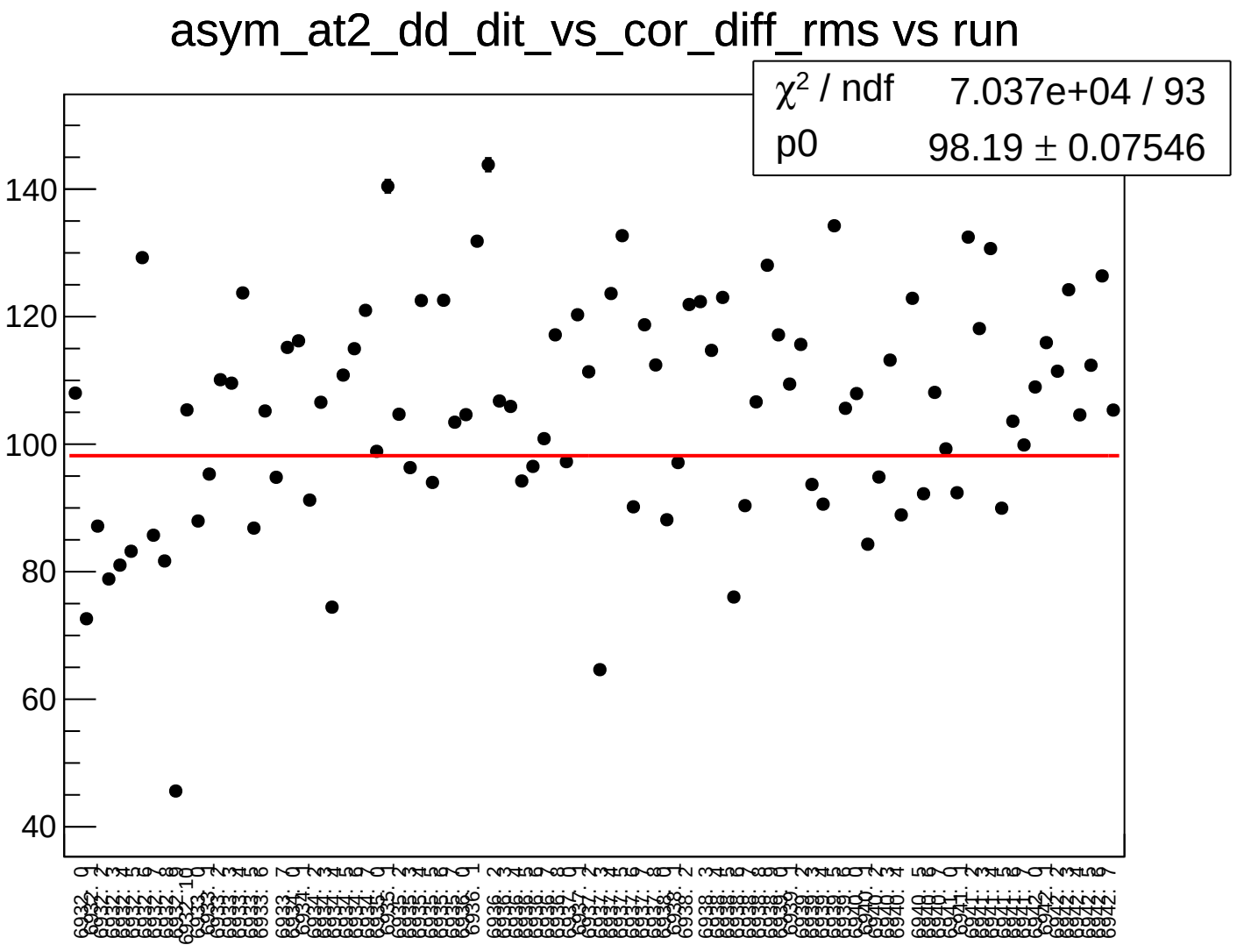

asym_at2_dd_rms vs run
χ² / ndf 828.6 / 93
p0 2035 ± 1.533
2200
2150
2100
2050
2000
1950

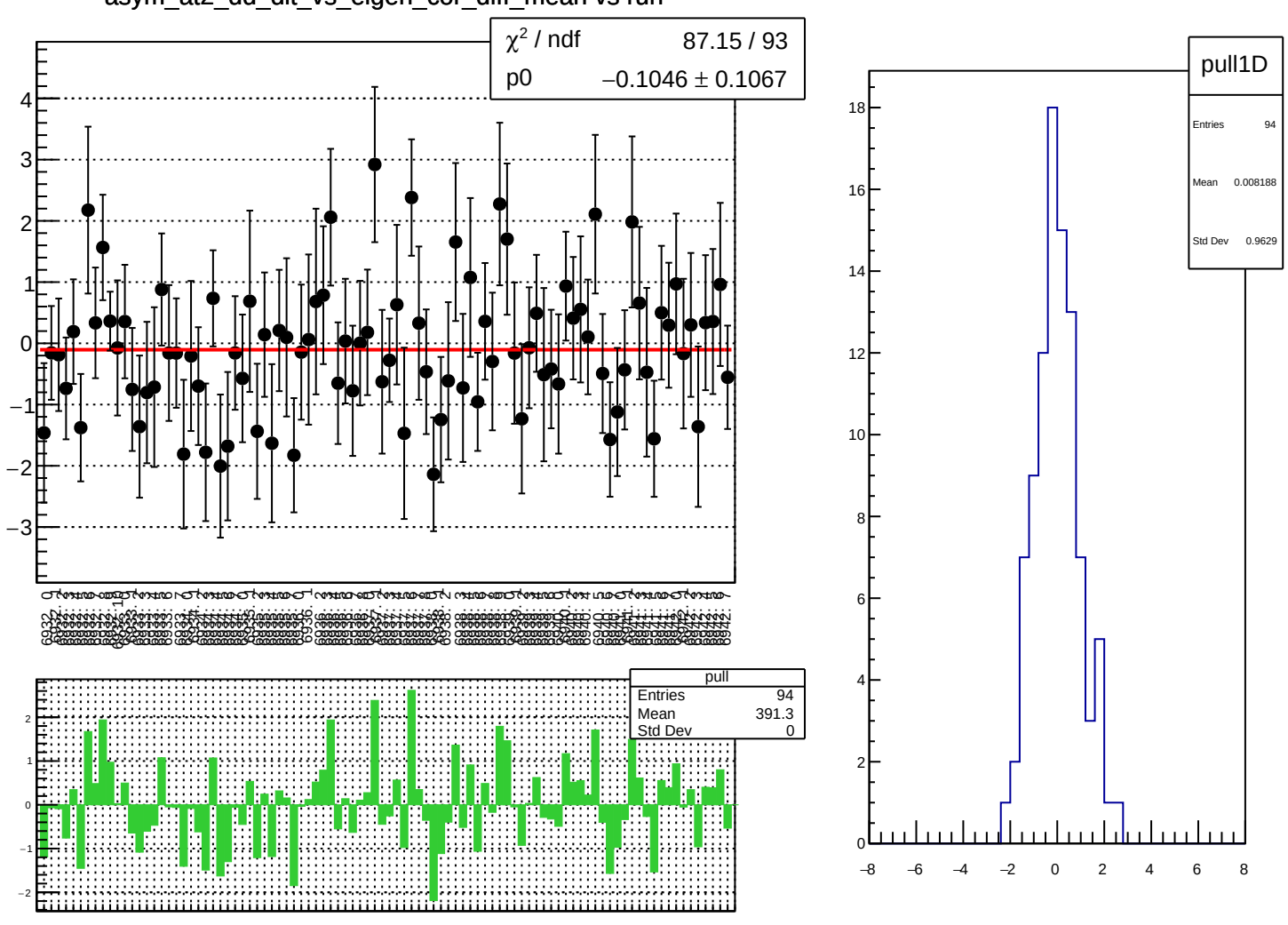

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.71 / 93
p0 3.403e−14 ± 4.393e−14
pull
Entries 94
Mean 69.11
Std Dev 0
pull1D
Entries 94
Mean −0.05193
Std Dev 0.9366

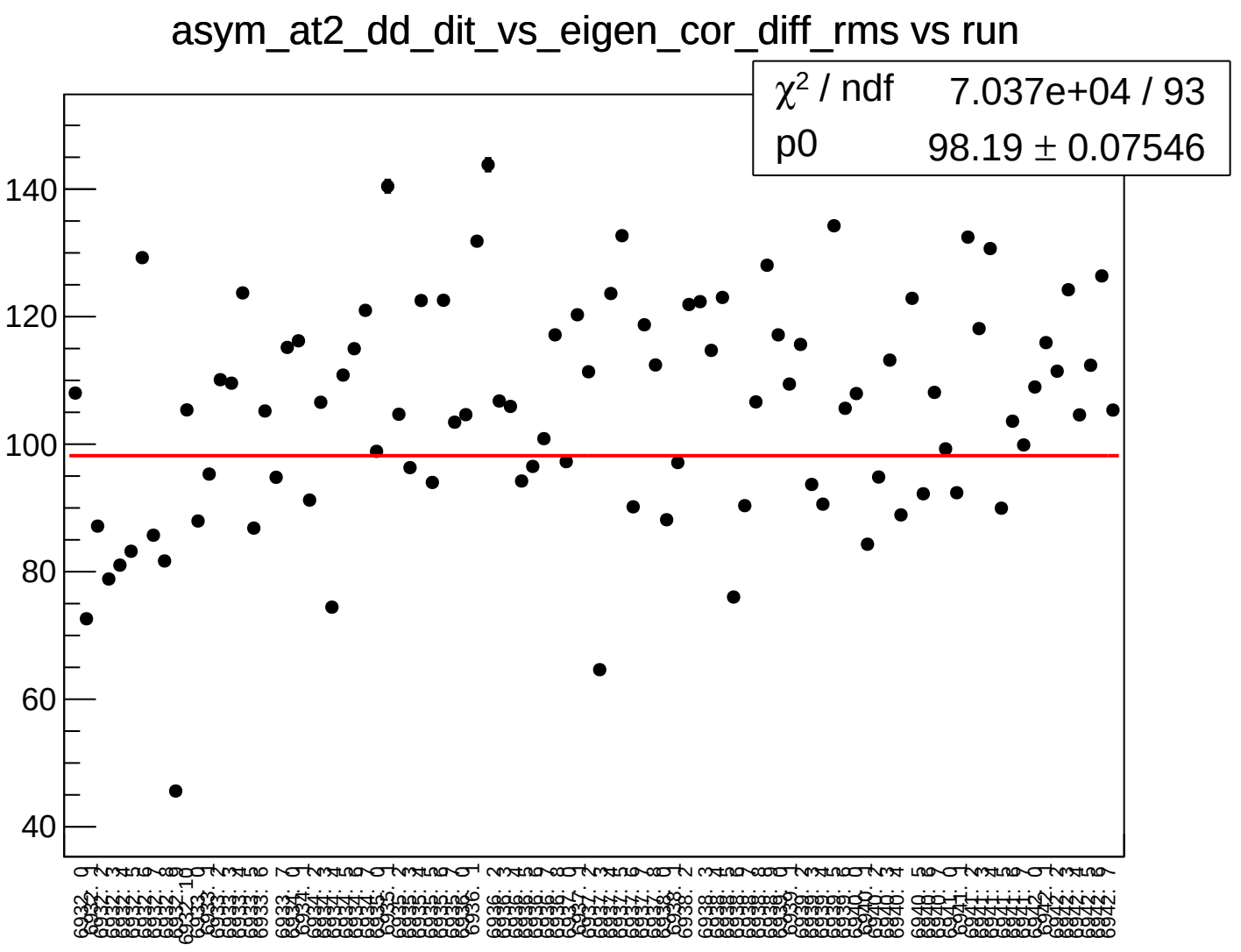

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.78e+05 / 93
p0 2.754e−11 ± 3.106e−14
1.2
1
0.8
0.6
0.4
0.2
0

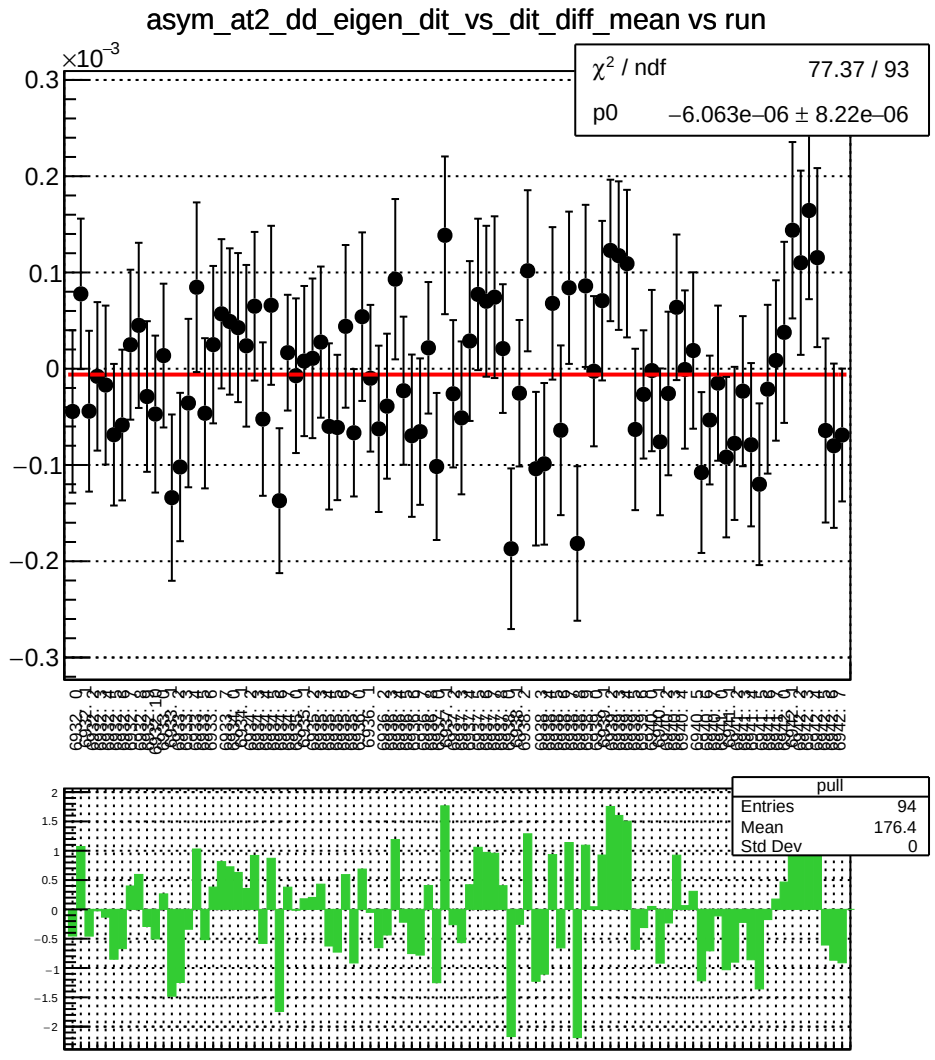

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.15 / 93
p0 −0.1046 ± 0.1067
pull
Entries 94
Mean 391.3
Std Dev 0

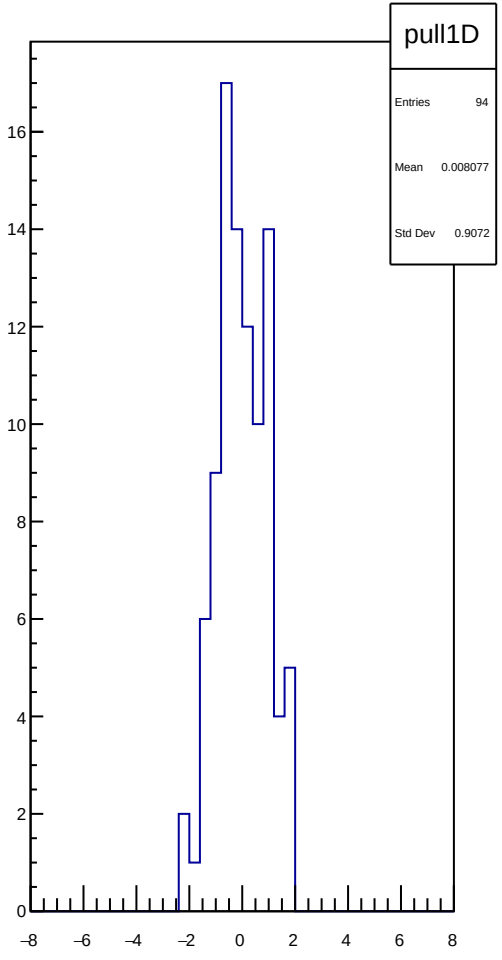

pull1D
Entries 94
Mean 0.008188
Std Dev 0.9629

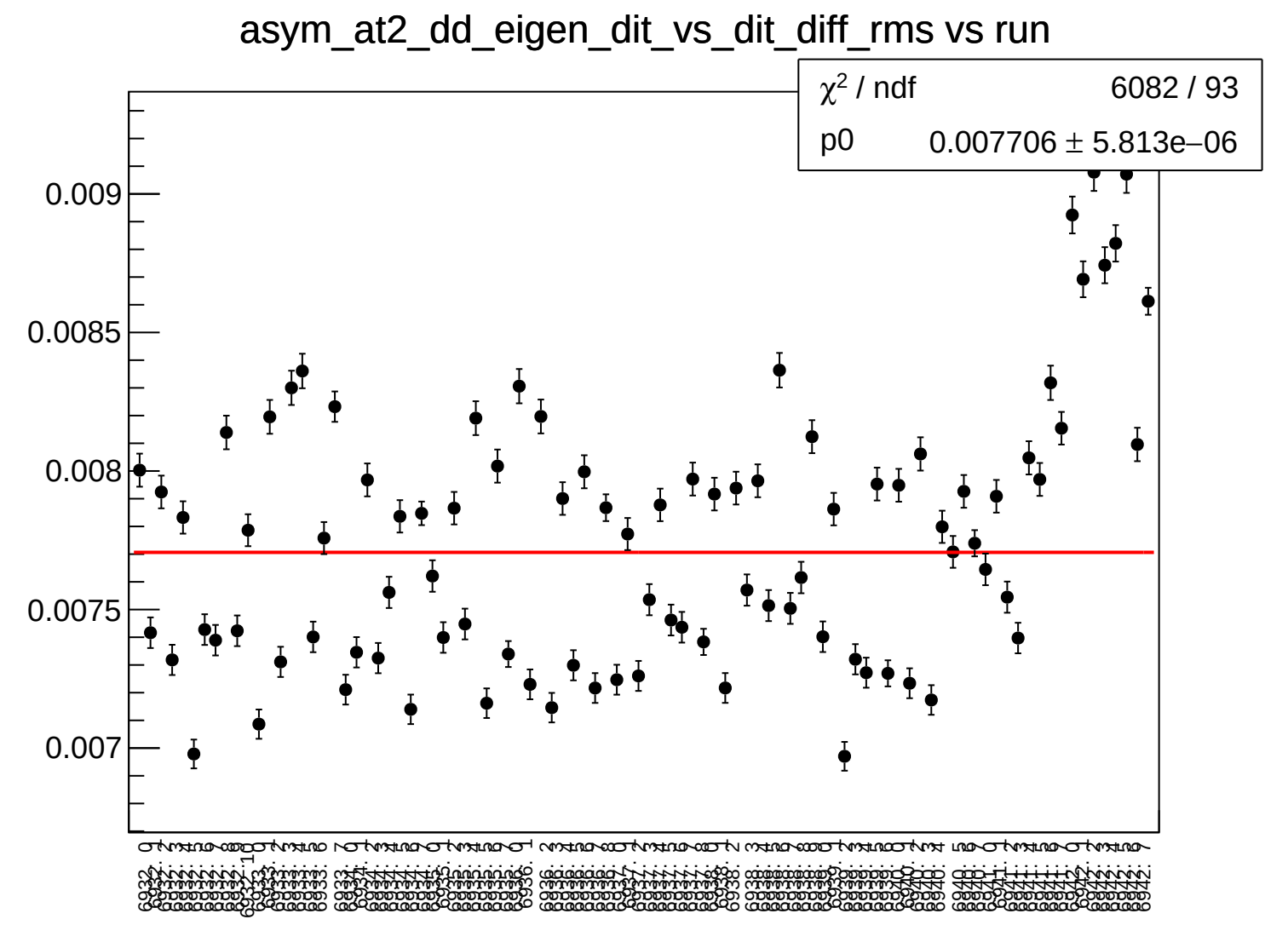

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.037e+04 / 93
p0 98.19 ± 0.07546
140
120
100
80
60
40

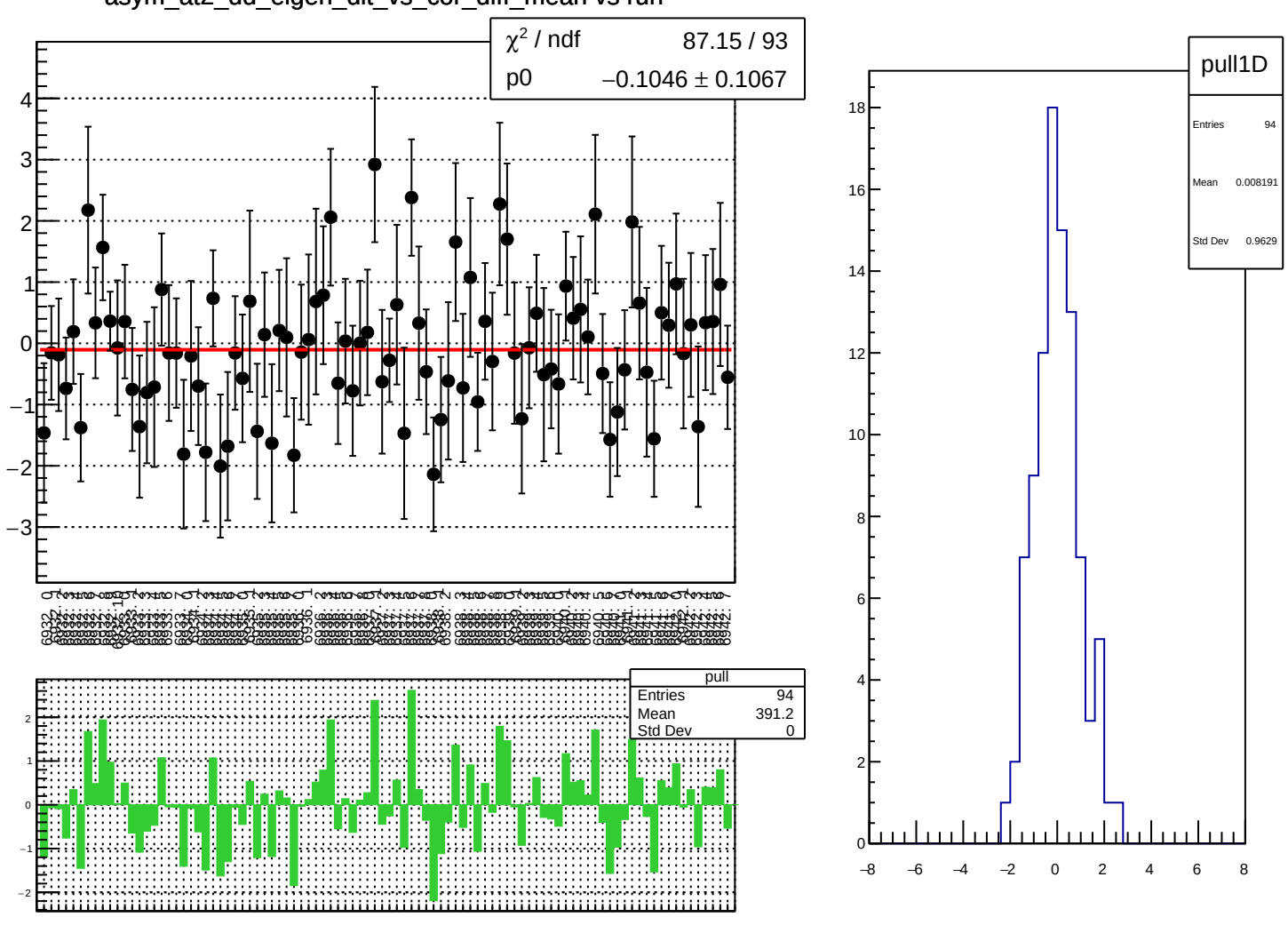

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.15 / 93
p0 −0.1046 ± 0.1067
pull
Entries 94
Mean 391.3
Std Dev 0
pull1D
Entries 94
Mean 0.008188
Std Dev 0.9629

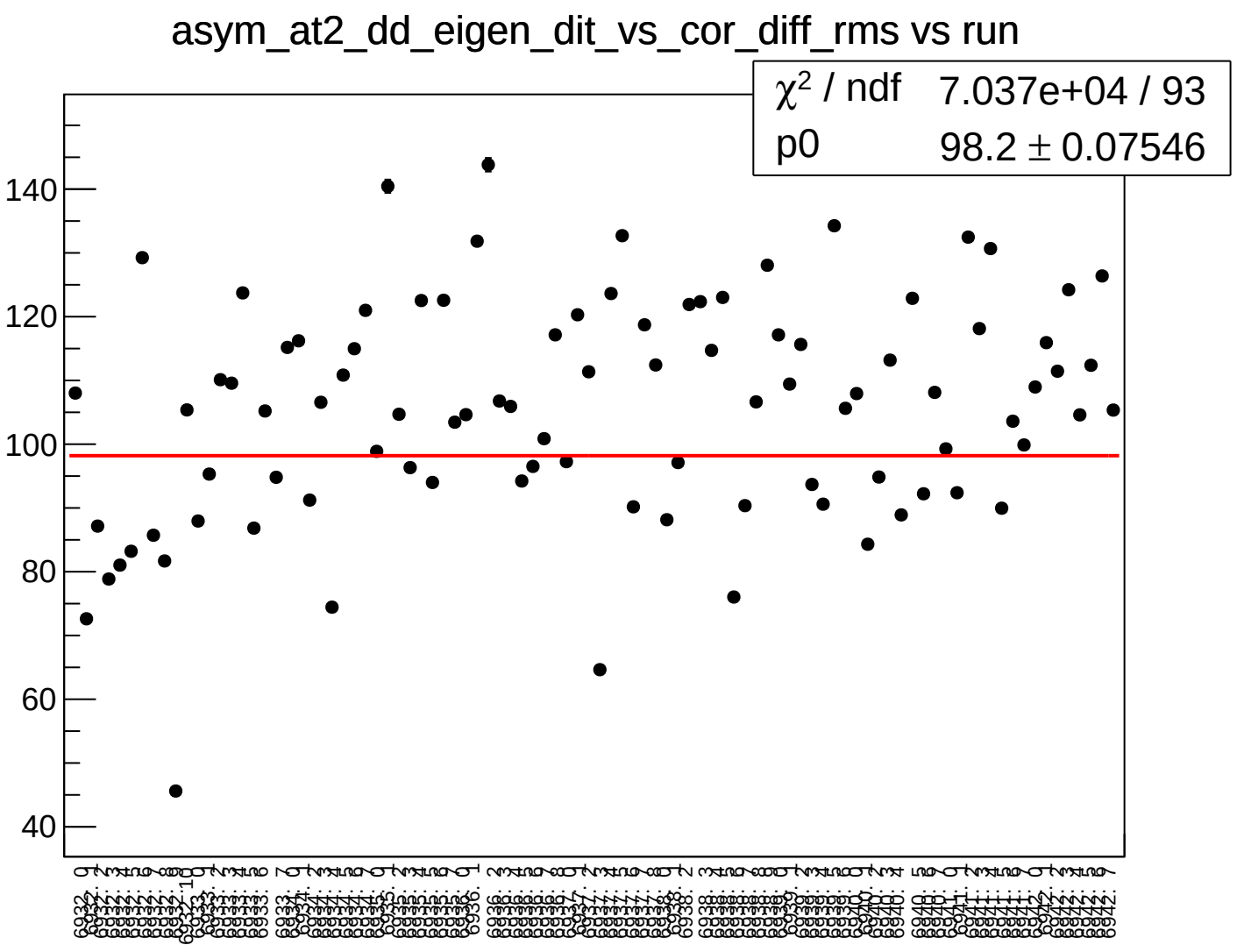

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.037e+04 / 93
p0 98.19 ± 0.07546
140
120
100
80
60
40

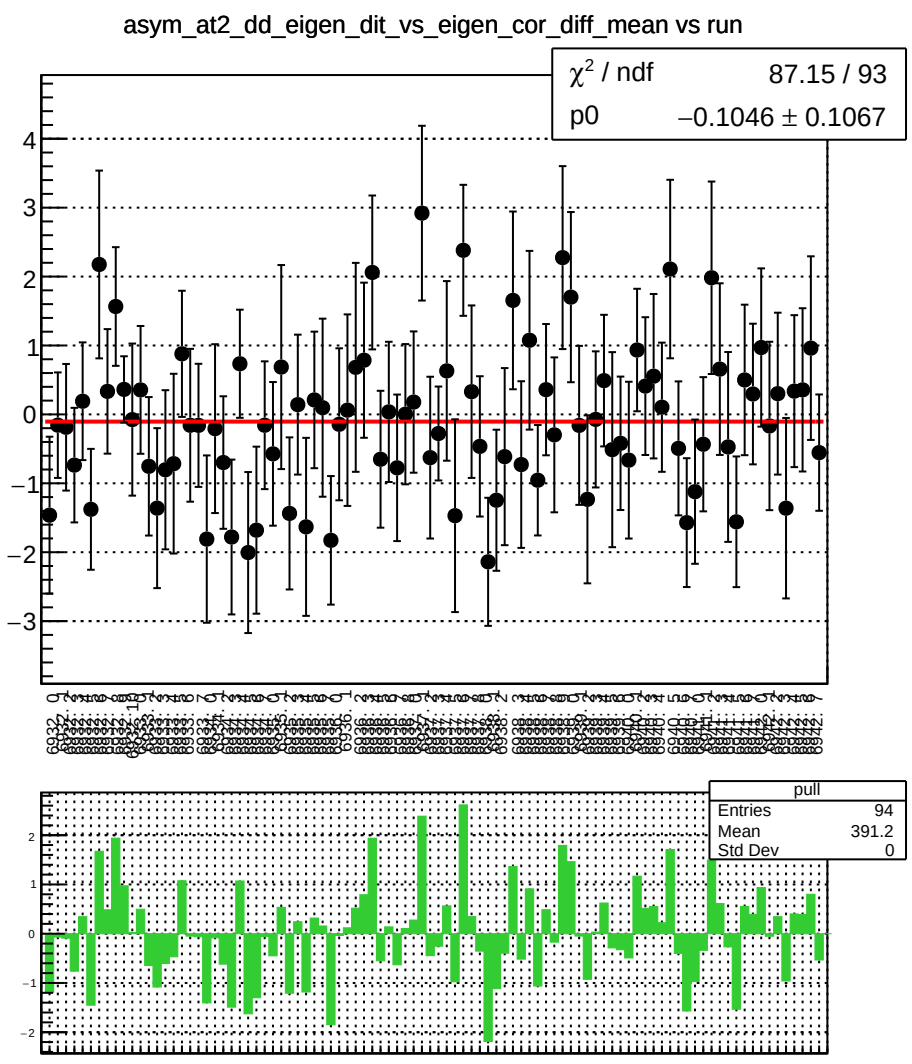

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.37 / 93
p0 −6.063e−06 ± 8.22e−06
pull
Entries 94
Mean 176.4
Std Dev 0

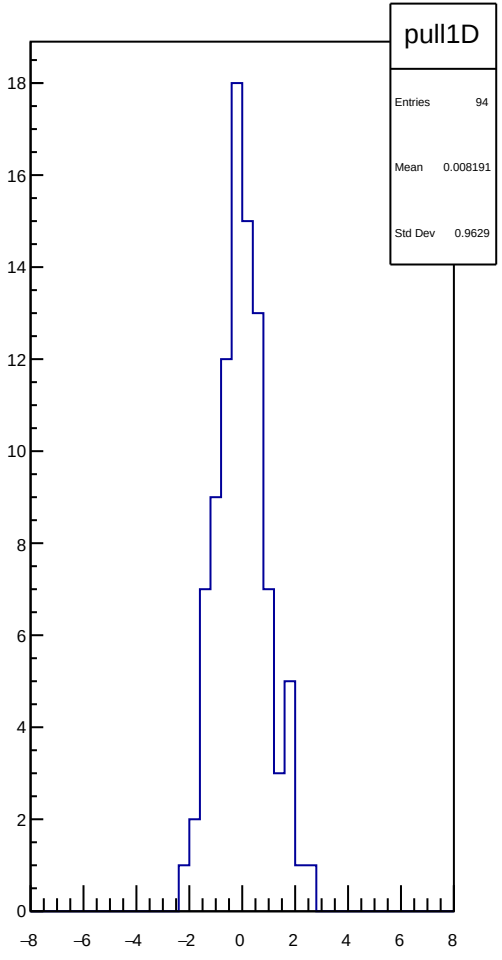

pull1D
Entries 94
Mean 0.008077
Std Dev 0.9072

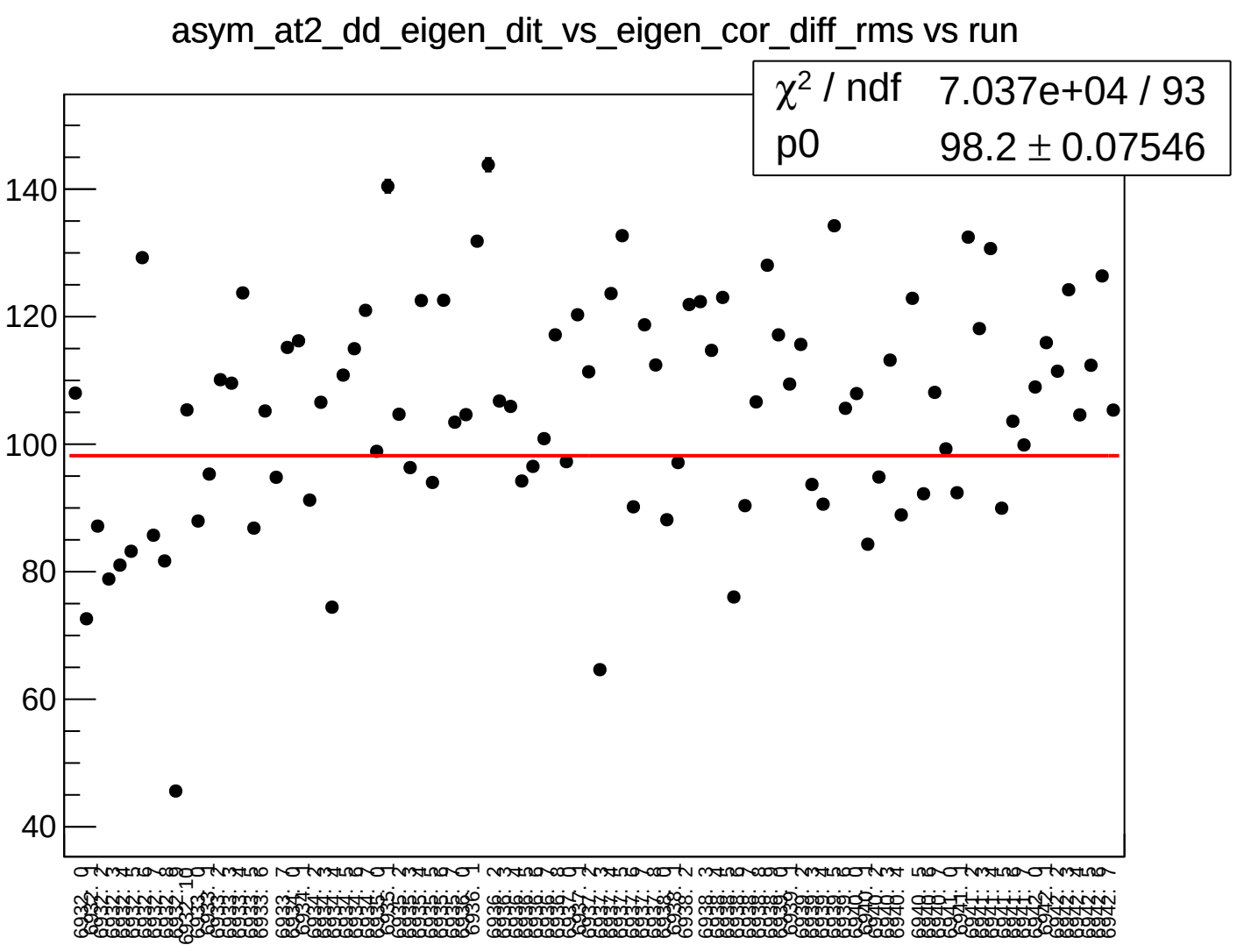

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6082 / 93
p0 0.007706 ± 5.813e−06
0.009
0.0085
0.008
0.0075
0.007

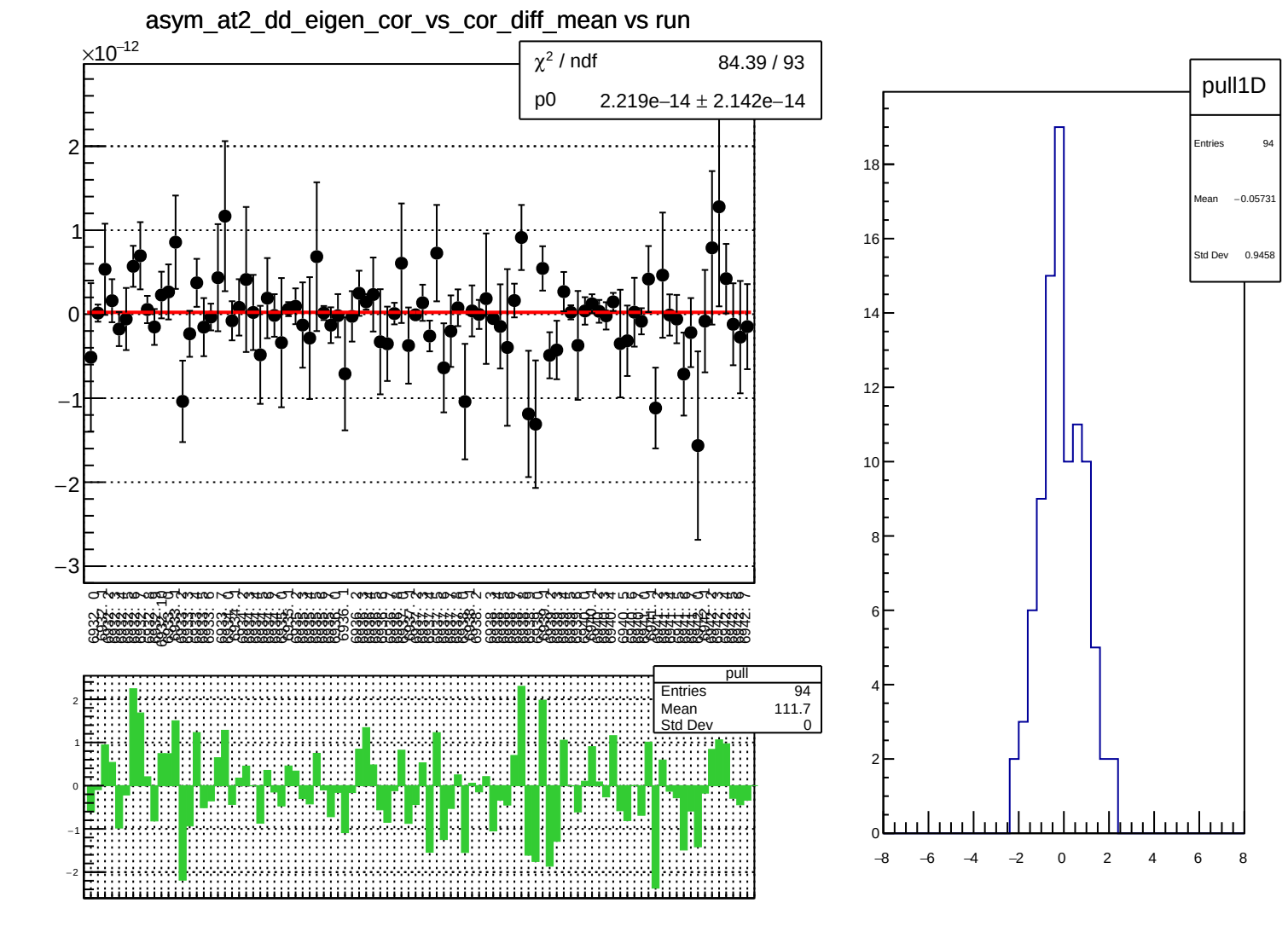

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.15 / 93
p0 −0.1046 ± 0.1067
pull
Entries 94
Mean 391.2
Std Dev 0
pull1D
Entries 94
Mean 0.008191
Std Dev 0.9629

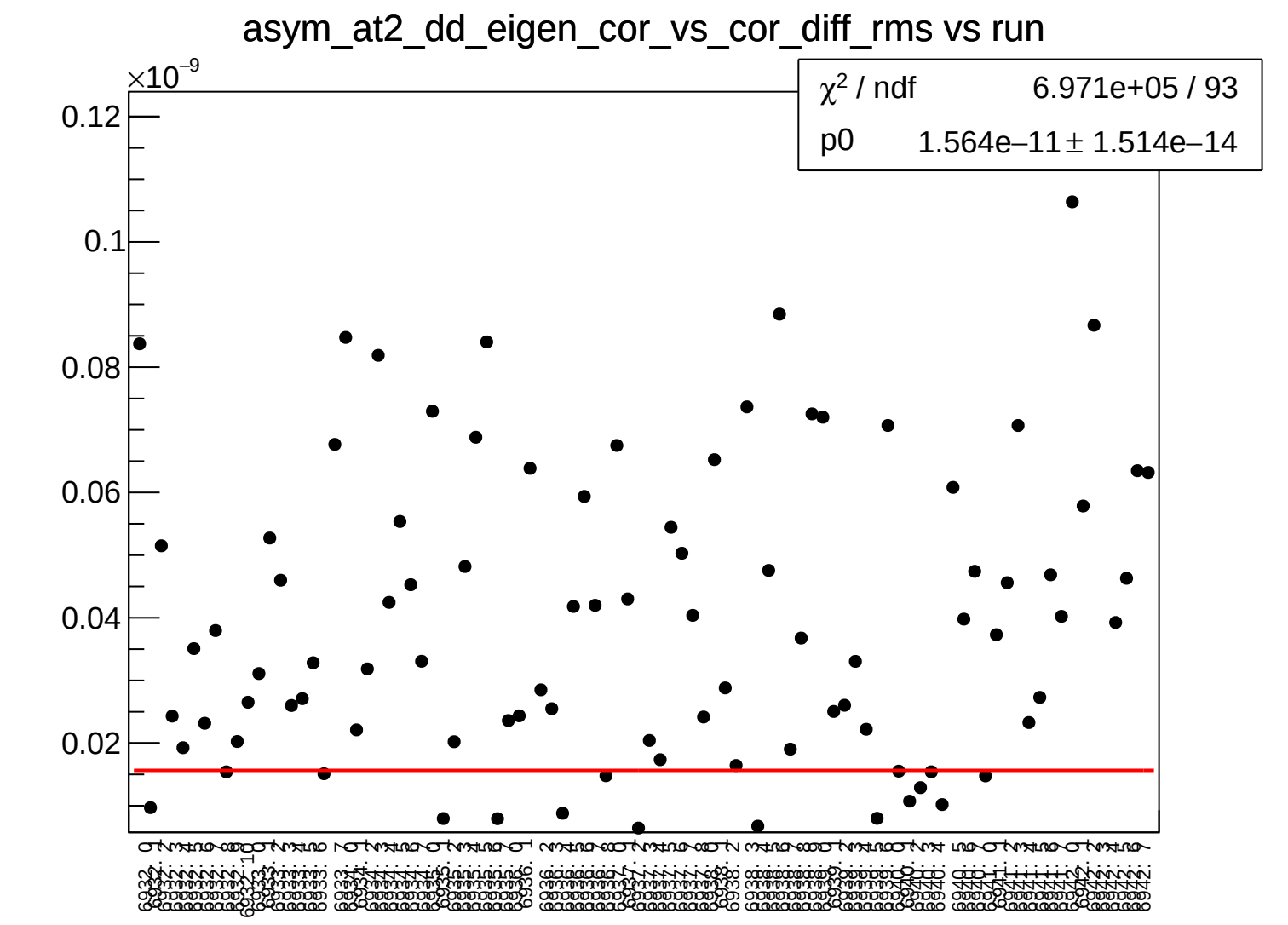

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.037e+04 / 93
p0 98.2 ± 0.07546
140
120
100
80
60
40

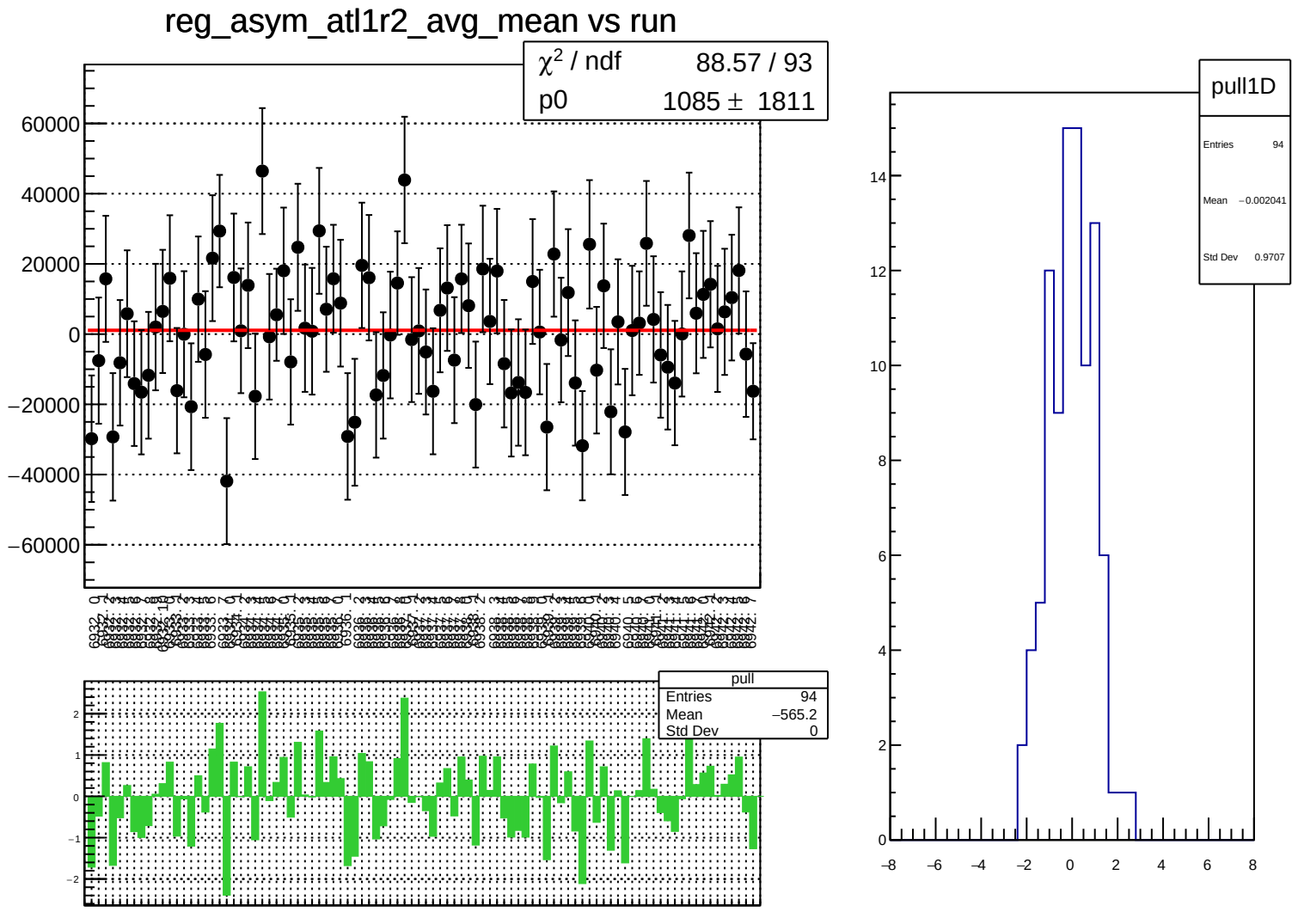

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.15 / 93
p0 −0.1046 ± 0.1067
pull
Entries 94
Mean 391.2
Std Dev 0

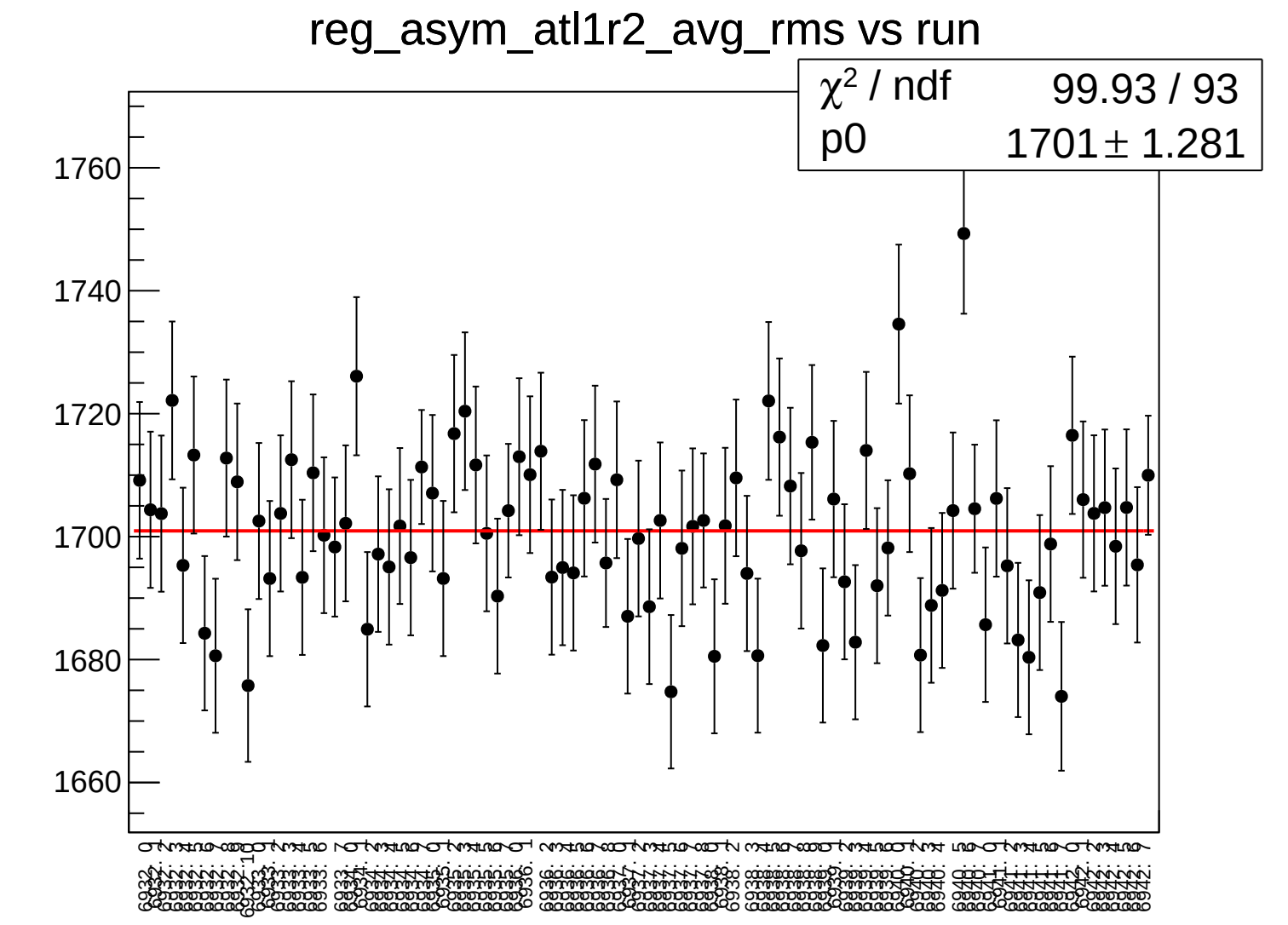

pull1D
Entries 94
Mean 0.008191
Std Dev 0.9629

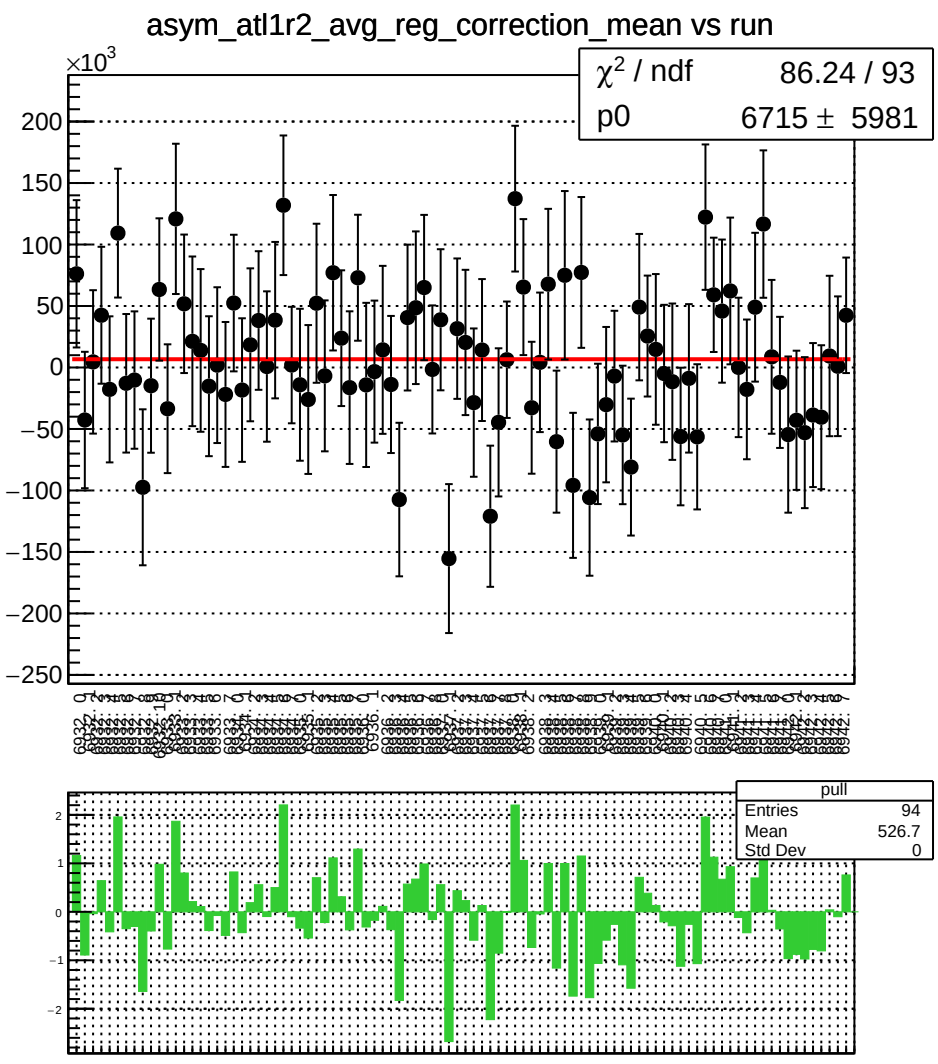

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.037e+04 / 93
p0 98.2 ± 0.07546
140
120
100
80
60
40

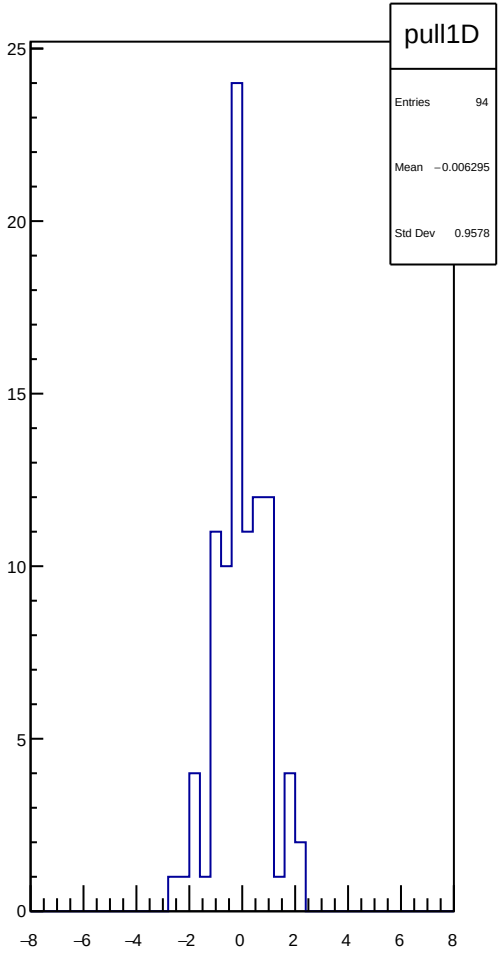

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.39 / 93
p0 2.219e−14 ± 2.142e−14
pull
Entries 94
Mean 111.7
Std Dev 0
pull1D
Entries 94
Mean −0.05731
Std Dev 0.9458

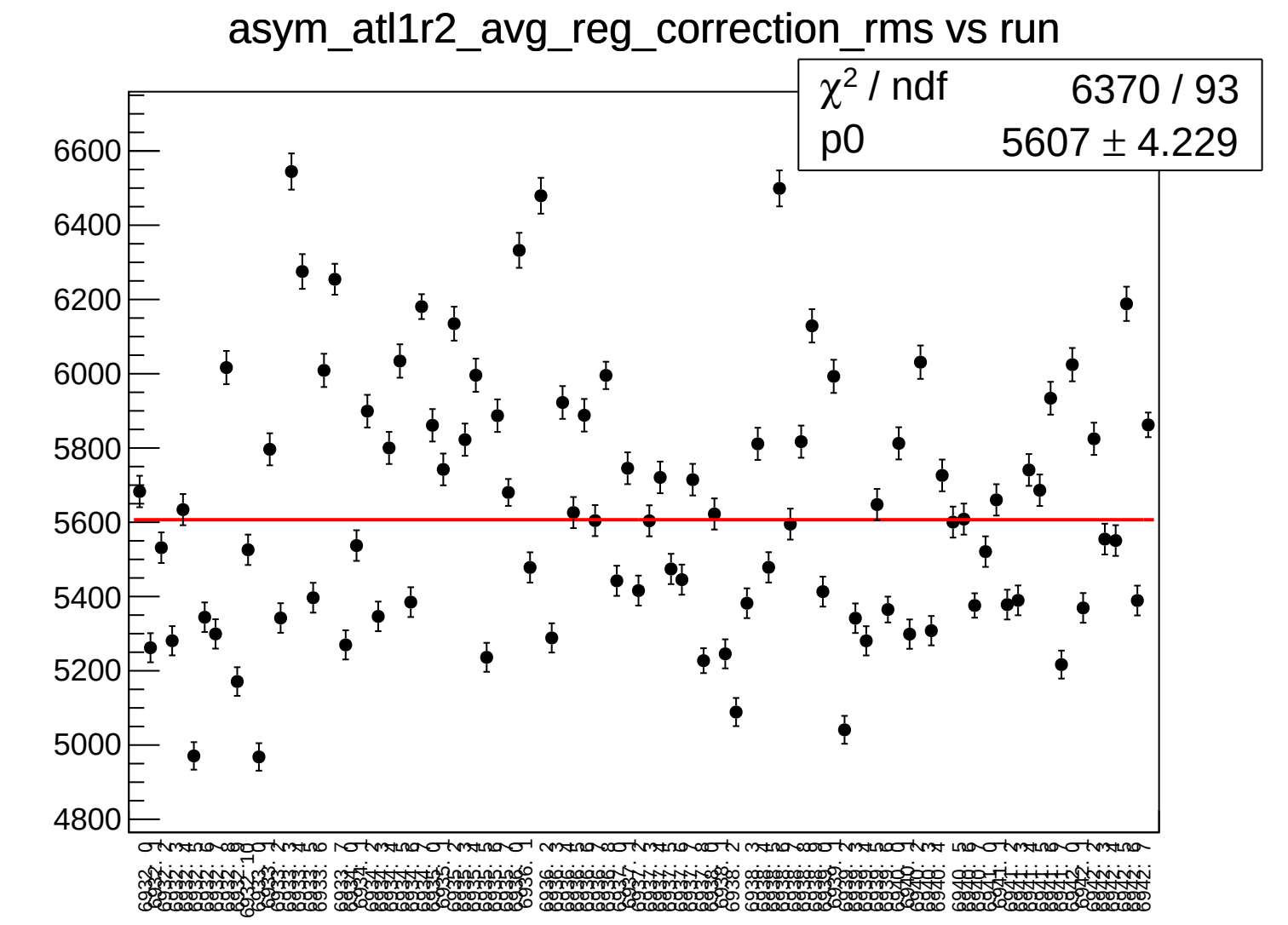

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.971e+05 / 93
p0 1.564e−11 ± 1.514e−14
0.12
0.1
0.08
0.06
0.04
0.02

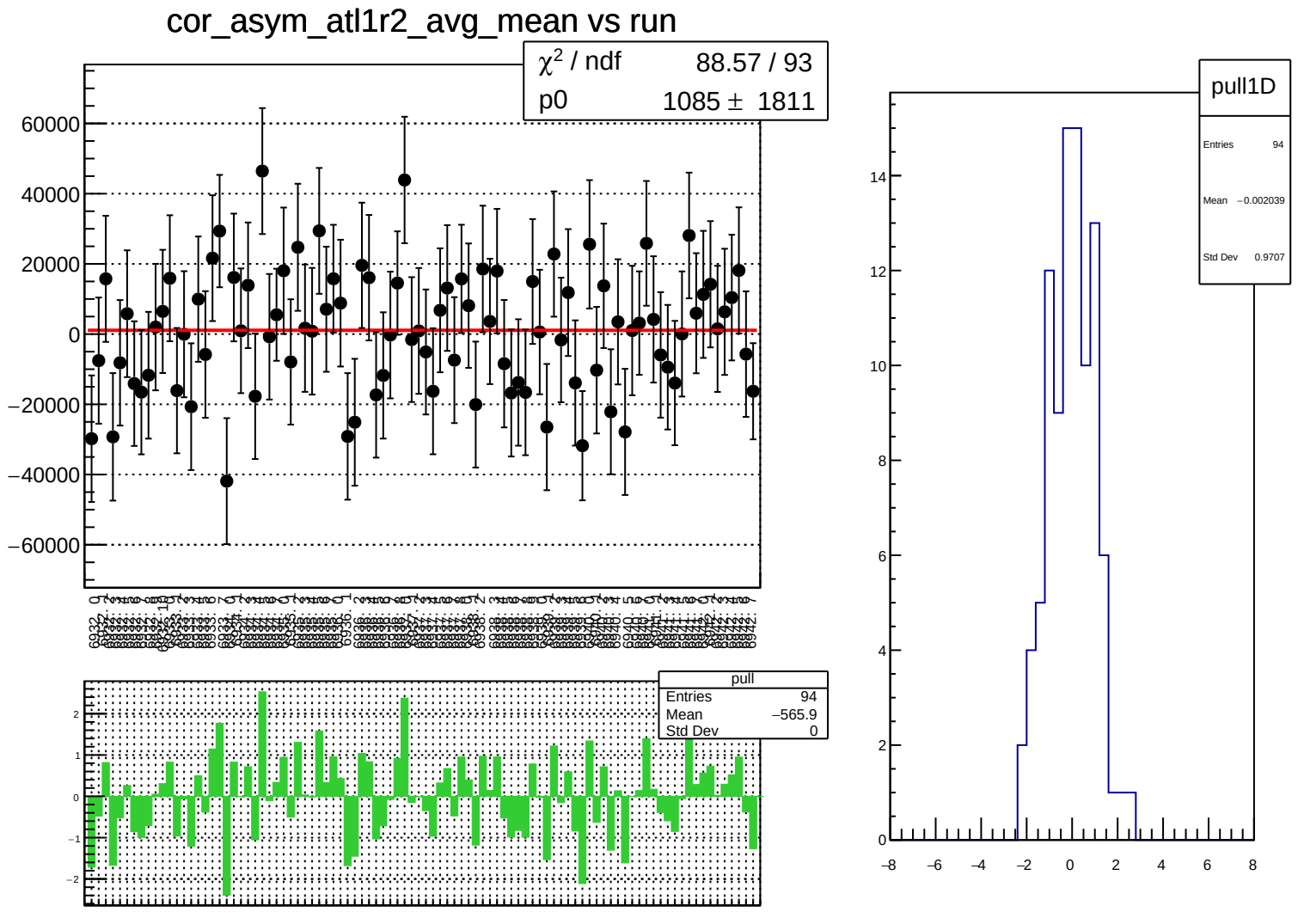

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 88.57 / 93
p0 1085 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −565.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002041
Std Dev 0.9707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

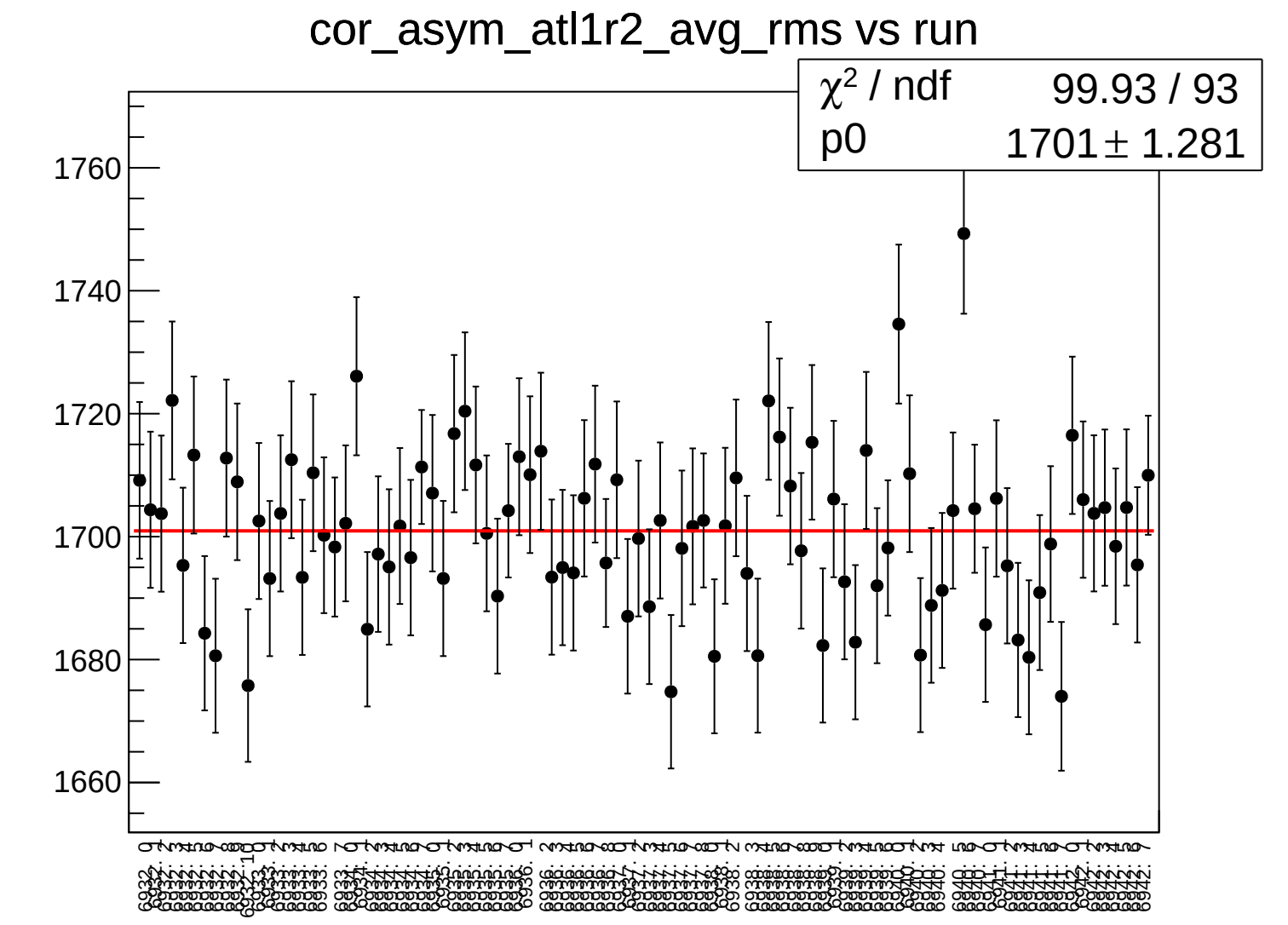

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 99.93 / 93
p0 1701 ± 1.281
1760
1740
1720
1700
1680
1660

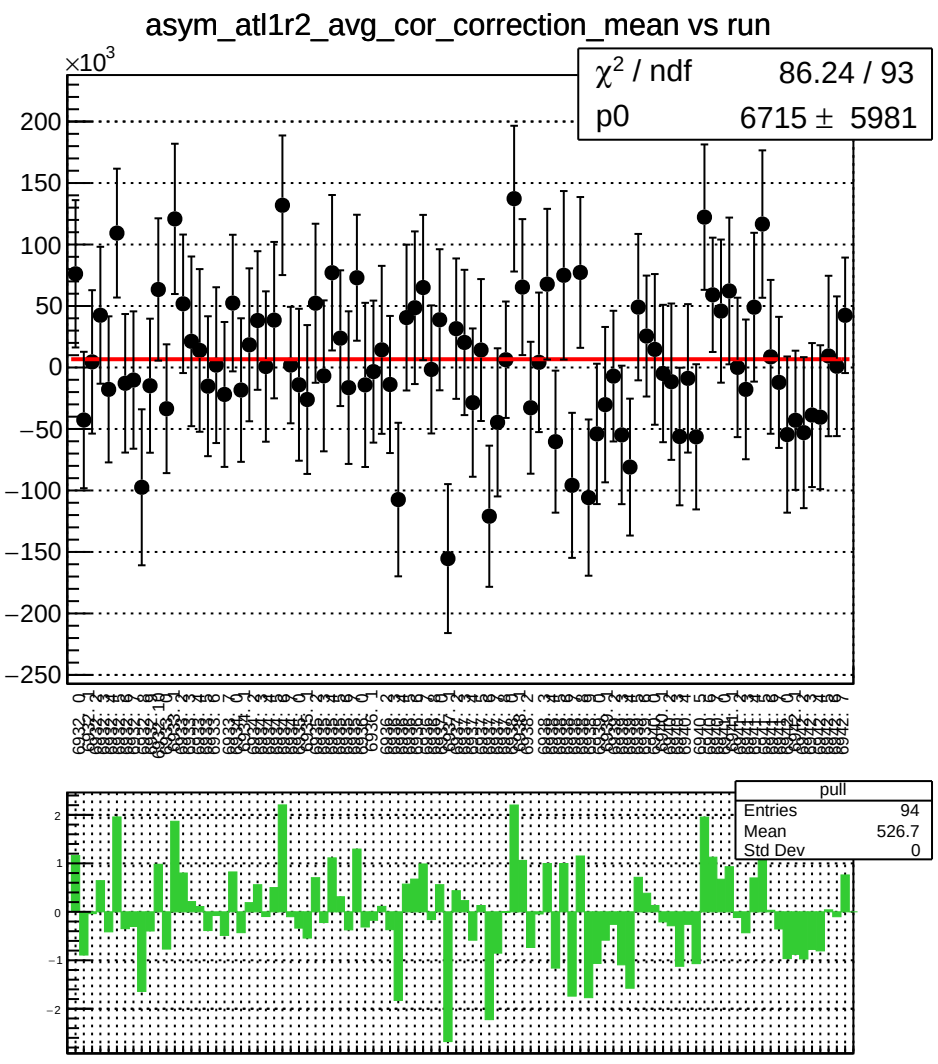

asym_atl1r2_avg_reg_correction_mean vs run
χ² / ndf 86.24 / 93
p0 6715 ± 5981
×10³
pull
Entries 94
Mean 526.7
Std Dev 0

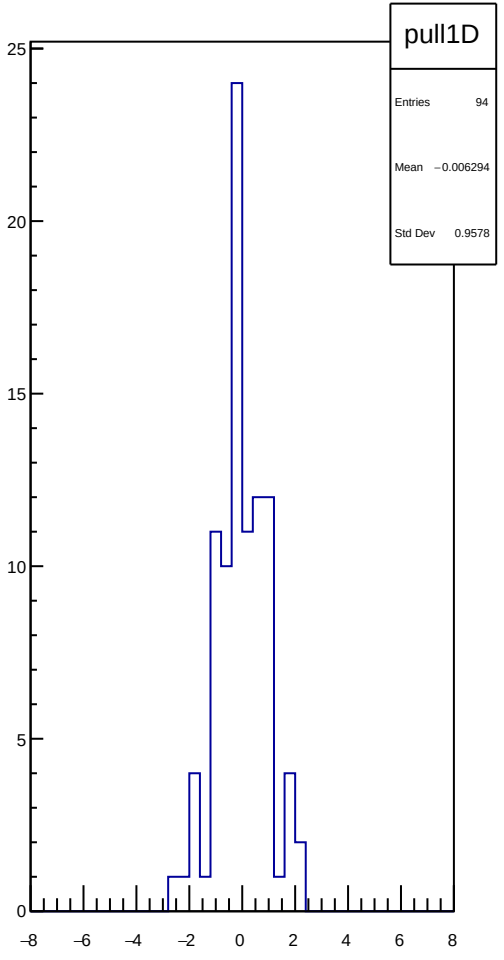

pull1D
Entries 94
Mean −0.006295
Std Dev 0.9578

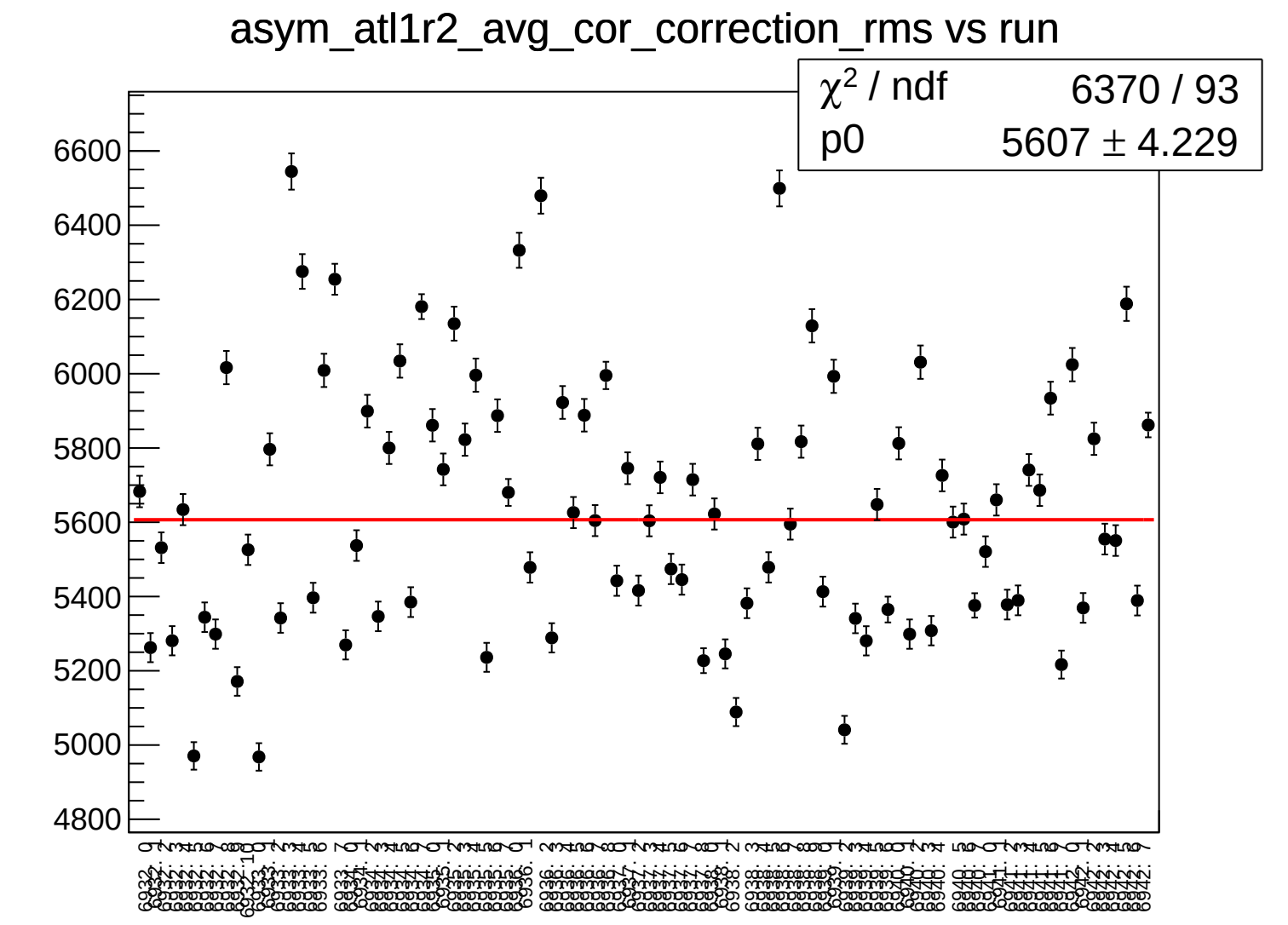

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6370 / 93
p0 5607 ± 4.229
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

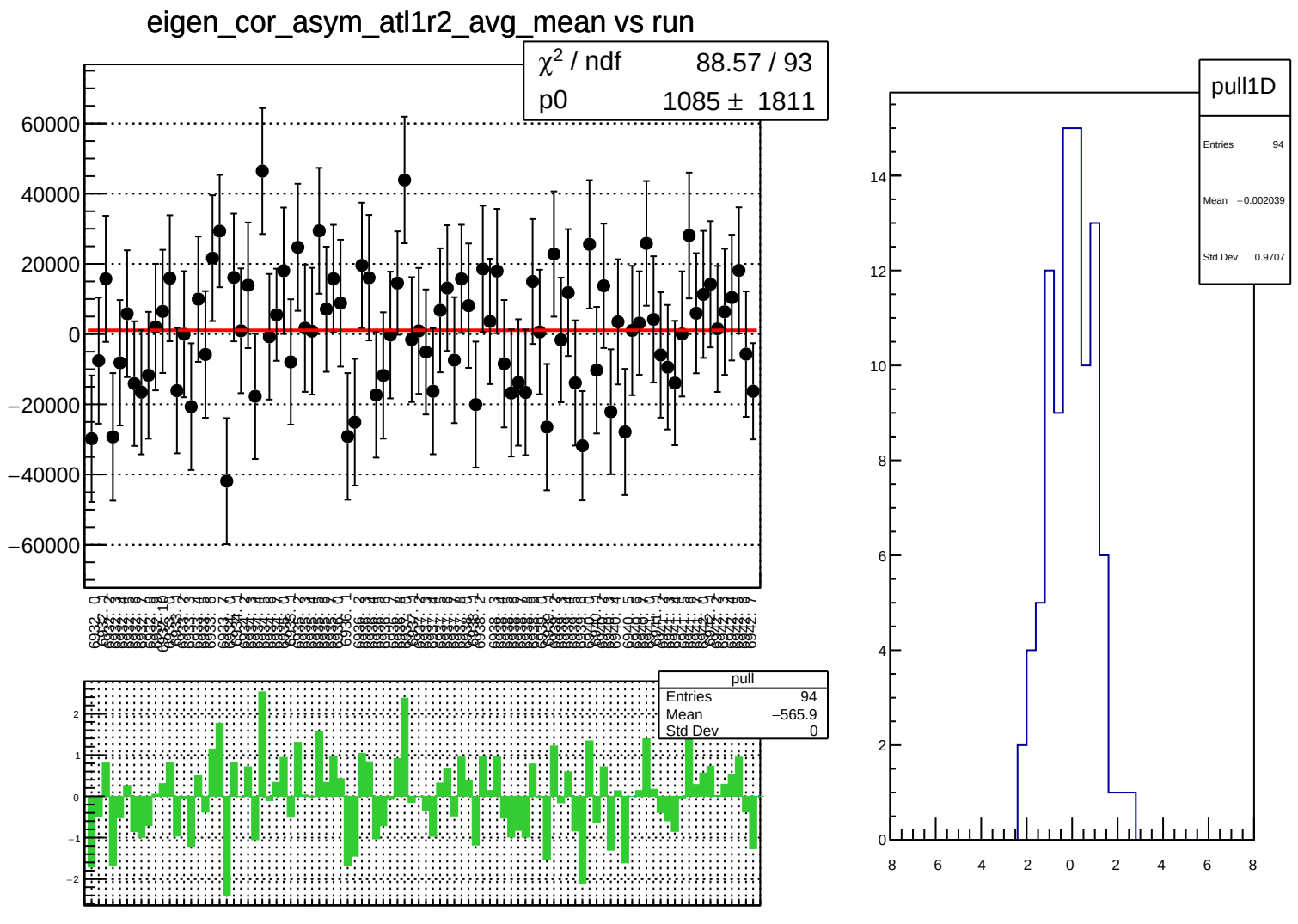

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.57 / 93
p0 1085 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −565.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002039
Std Dev 0.9707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

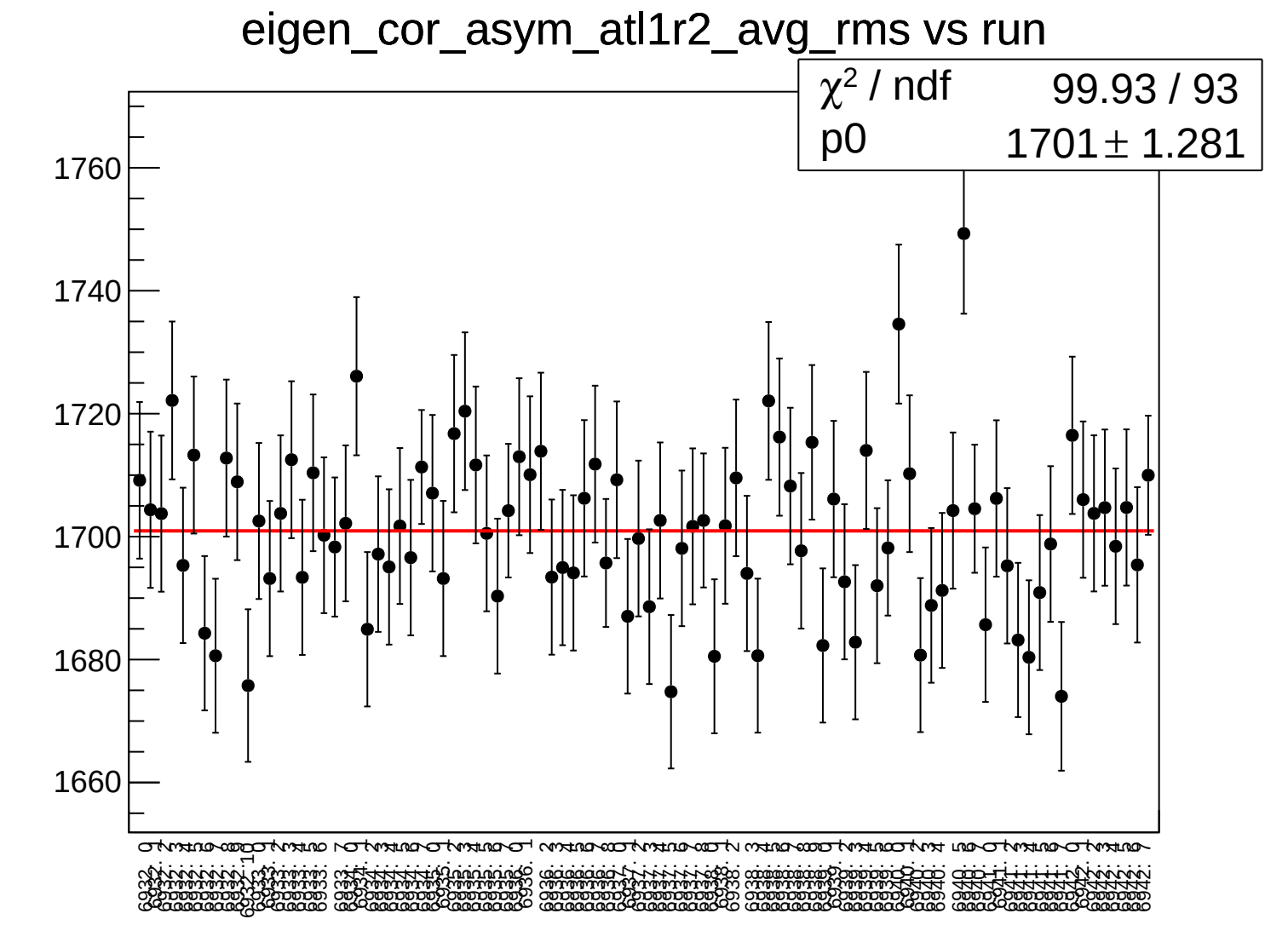

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 99.93 / 93
p0 1701 ± 1.281
1760
1740
1720
1700
1680
1660

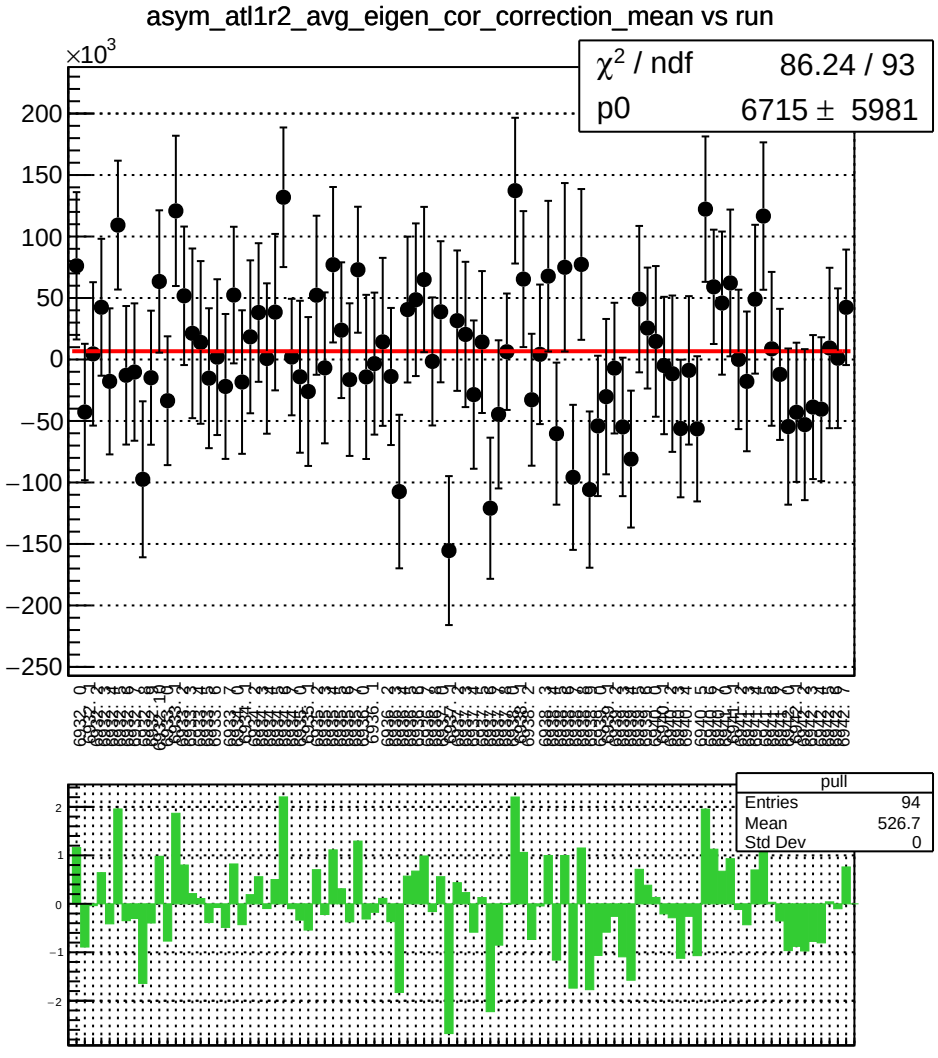

asym_atl1r2_avg_cor_correction_mean vs run
χ² / ndf 86.24 / 93
p0 6715 ± 5981
×10³
pull
Entries 94
Mean 526.7
Std Dev 0

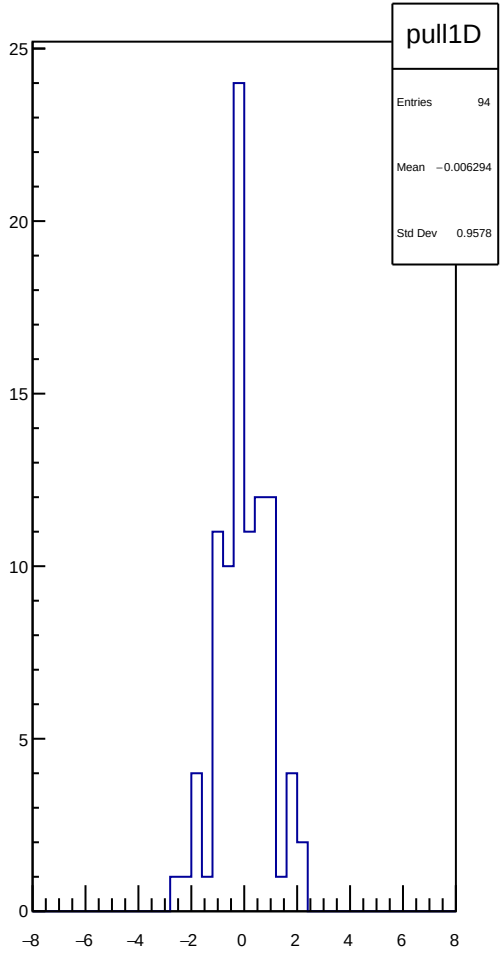

pull1D
Entries 94
Mean −0.006294
Std Dev 0.9578

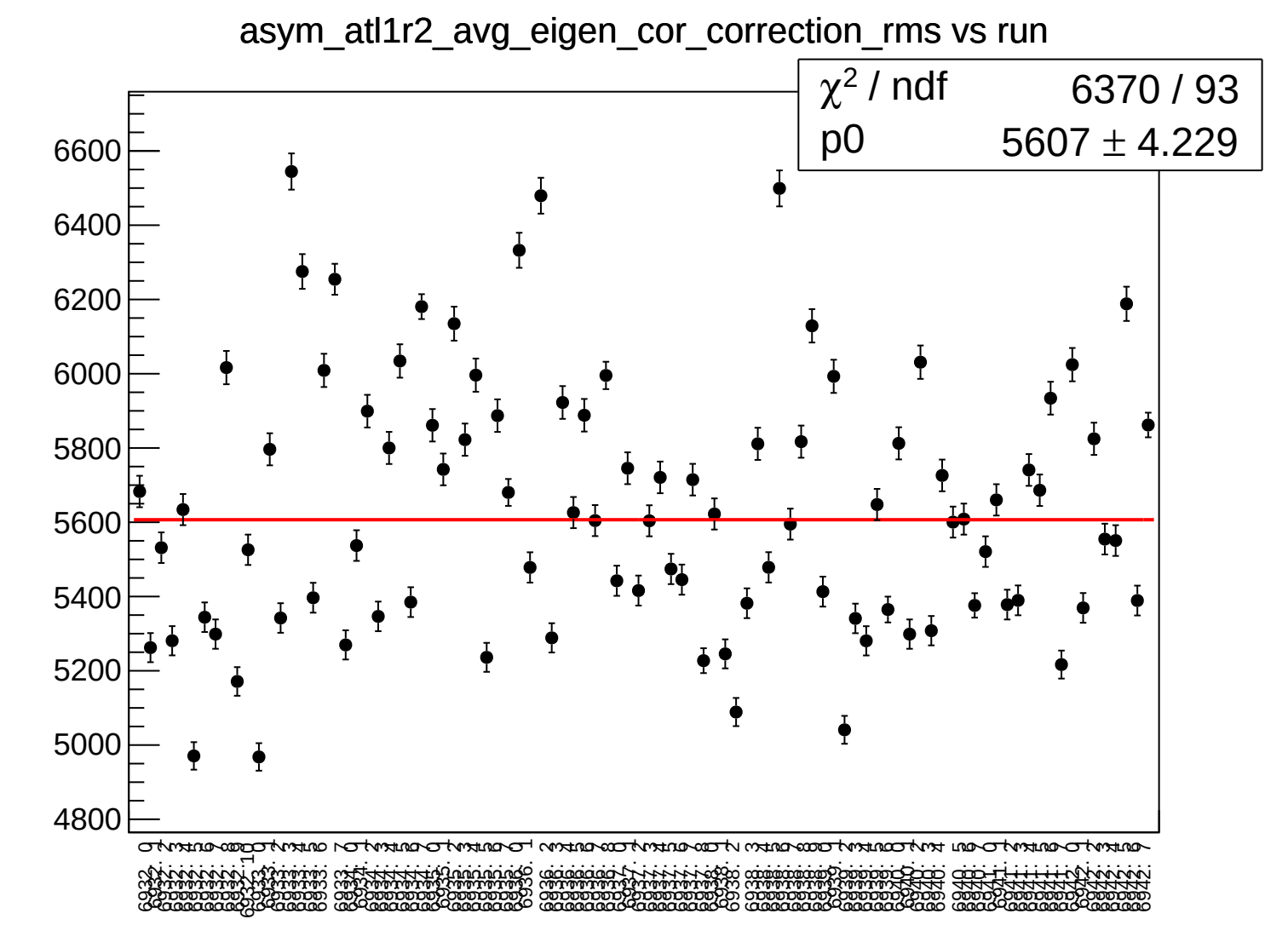

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 6370 / 93
p0 5607 ± 4.229
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

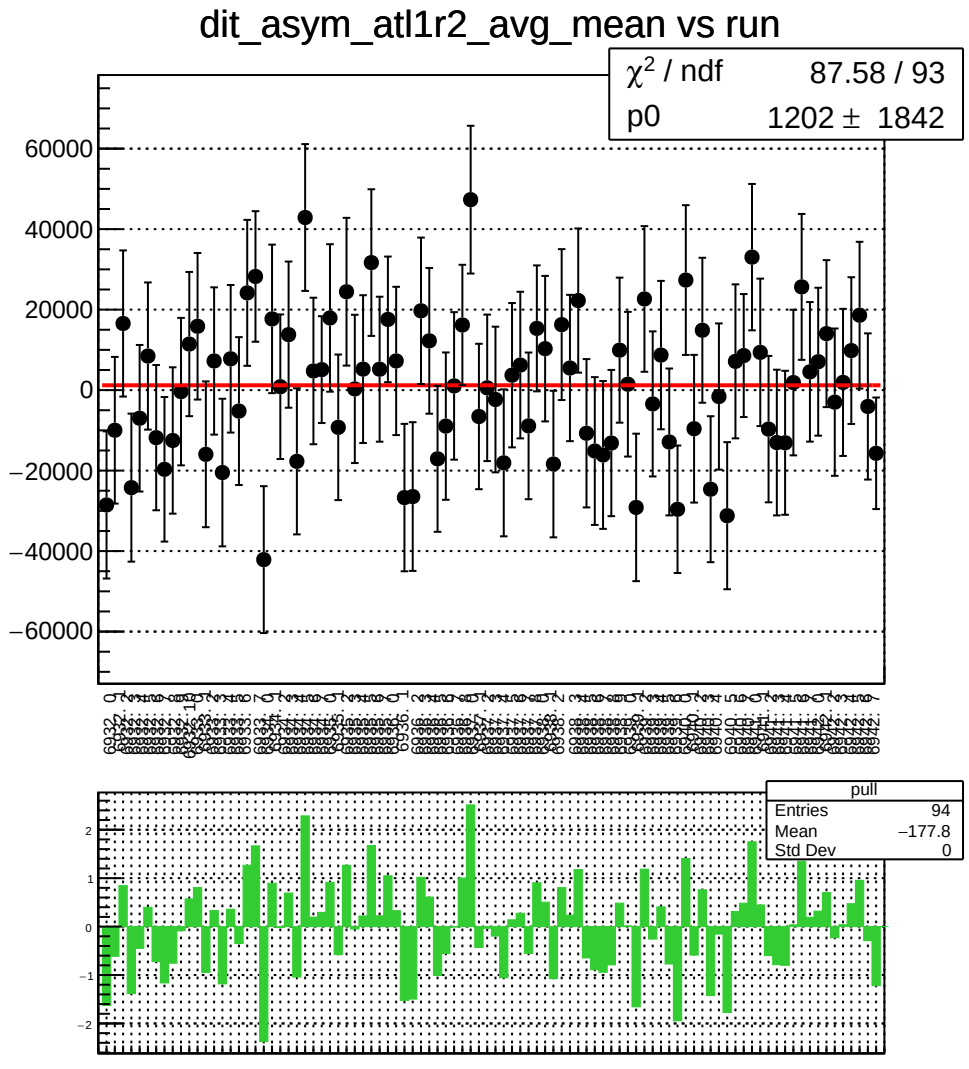

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 88.57 / 93
p0 1085 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −565.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002039
Std Dev 0.9707
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

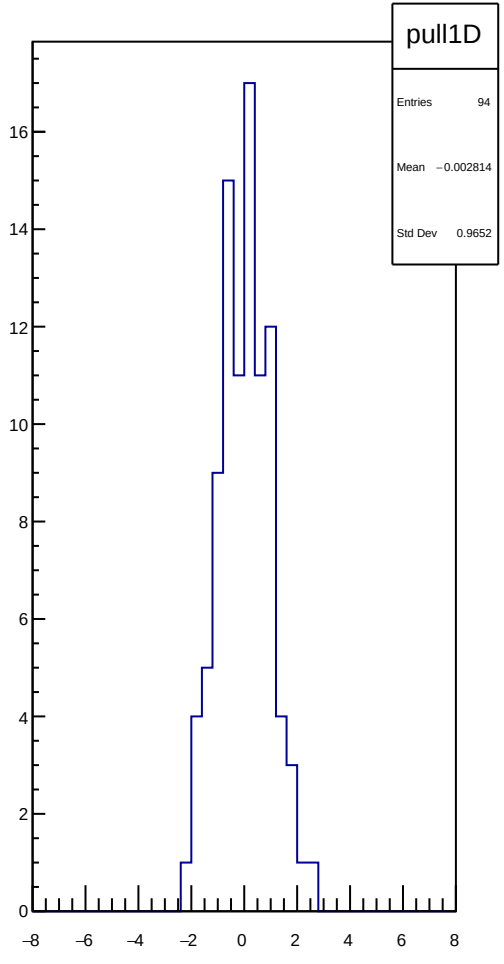

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 99.93 / 93
p0 1701 ± 1.281
1760
1740
1720
1700
1680
1660

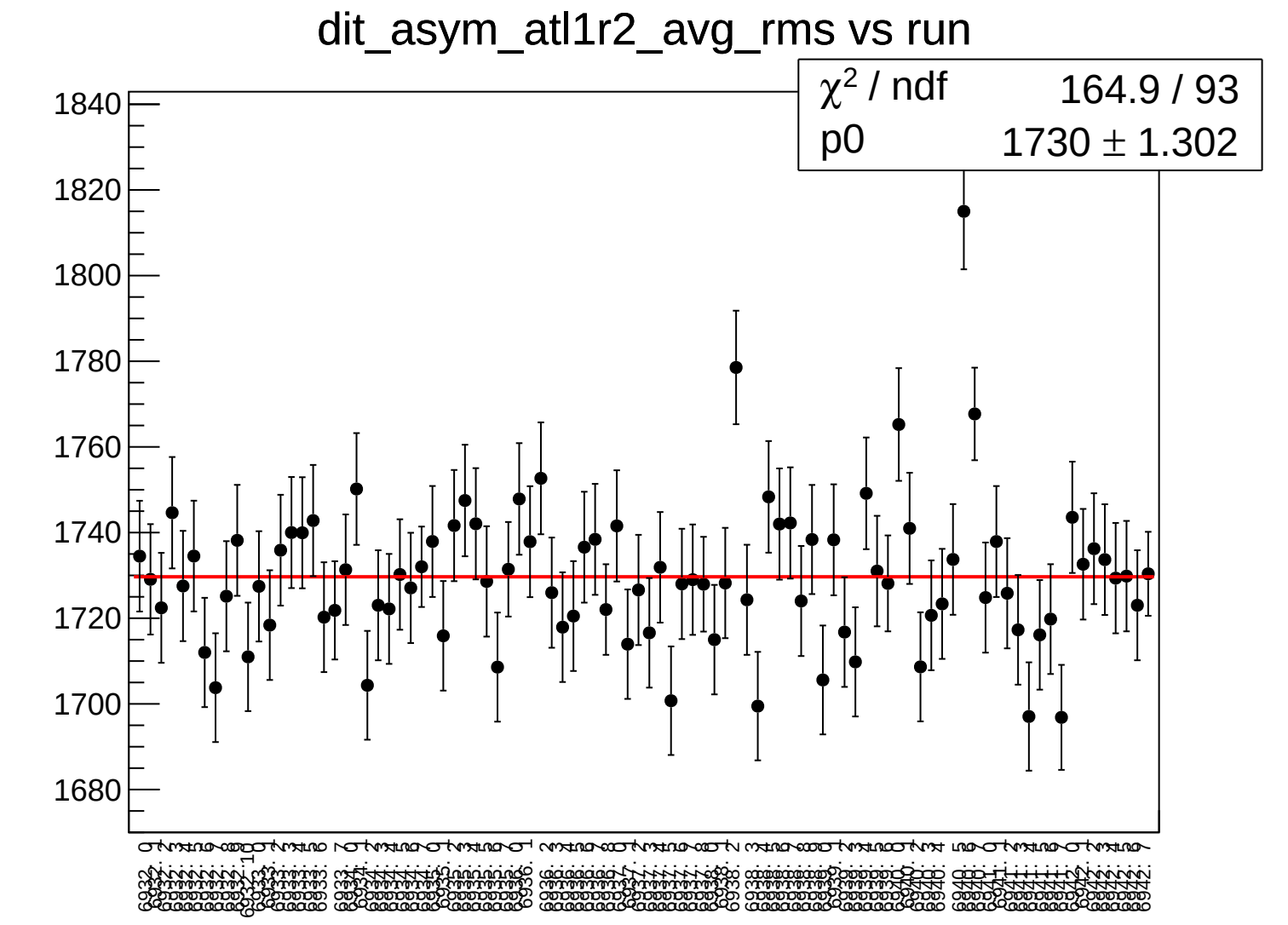

asym_atl1r2_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.24 / 93
p0 6715 ± 5981
×10³
pull
Entries 94
Mean 526.7
Std Dev 0

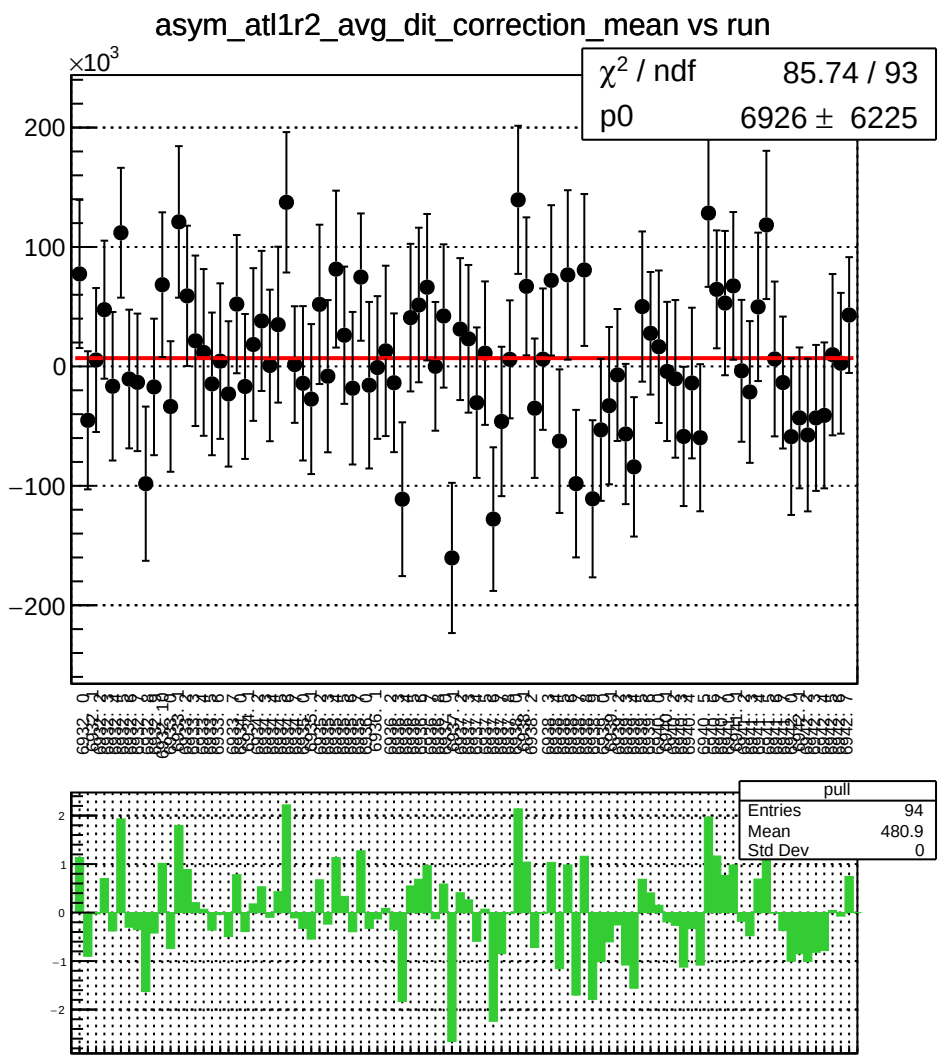

pull1D
Entries 94
Mean −0.006294
Std Dev 0.9578

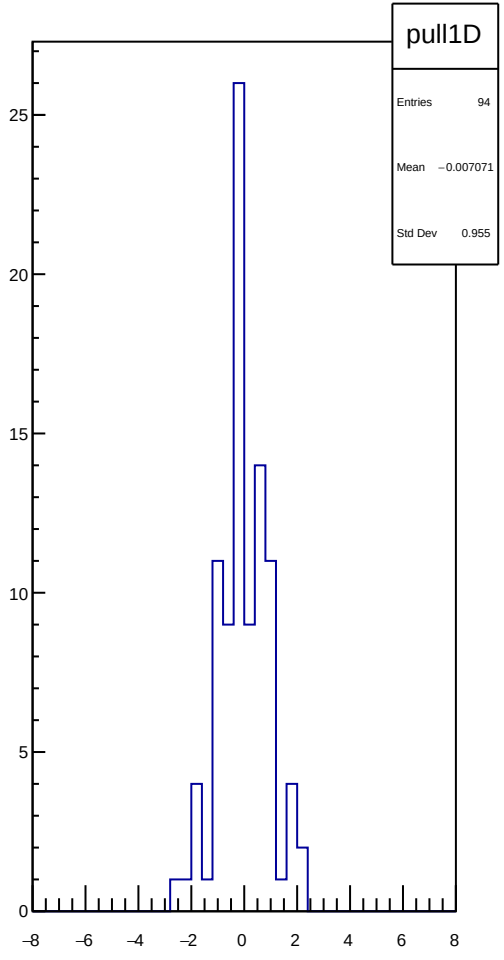

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6370 / 93
p0 5607 ± 4.229
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

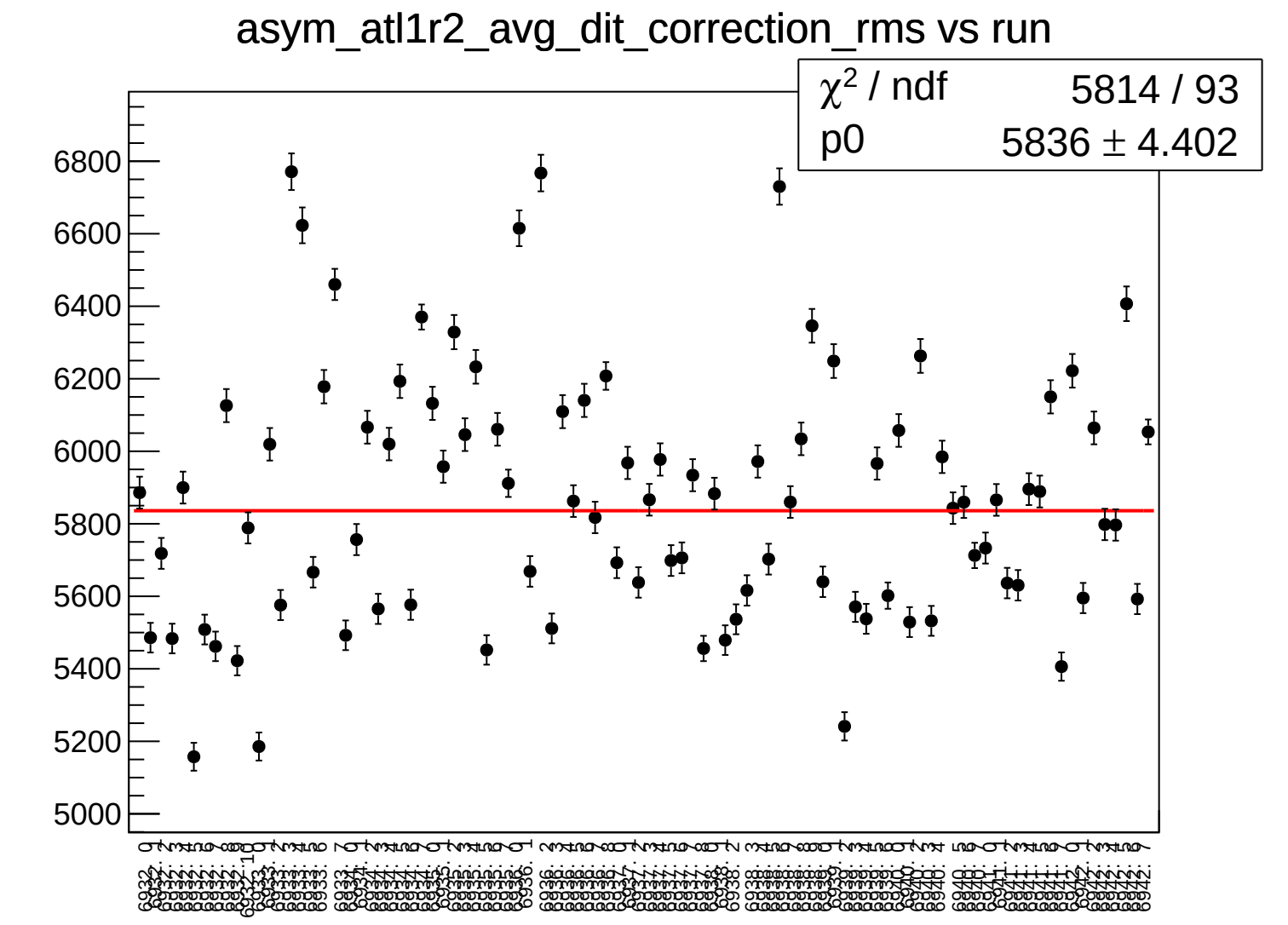

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 87.58 / 93
p0 1202 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −177.8
Std Dev 0
2
1
0
−1
−2

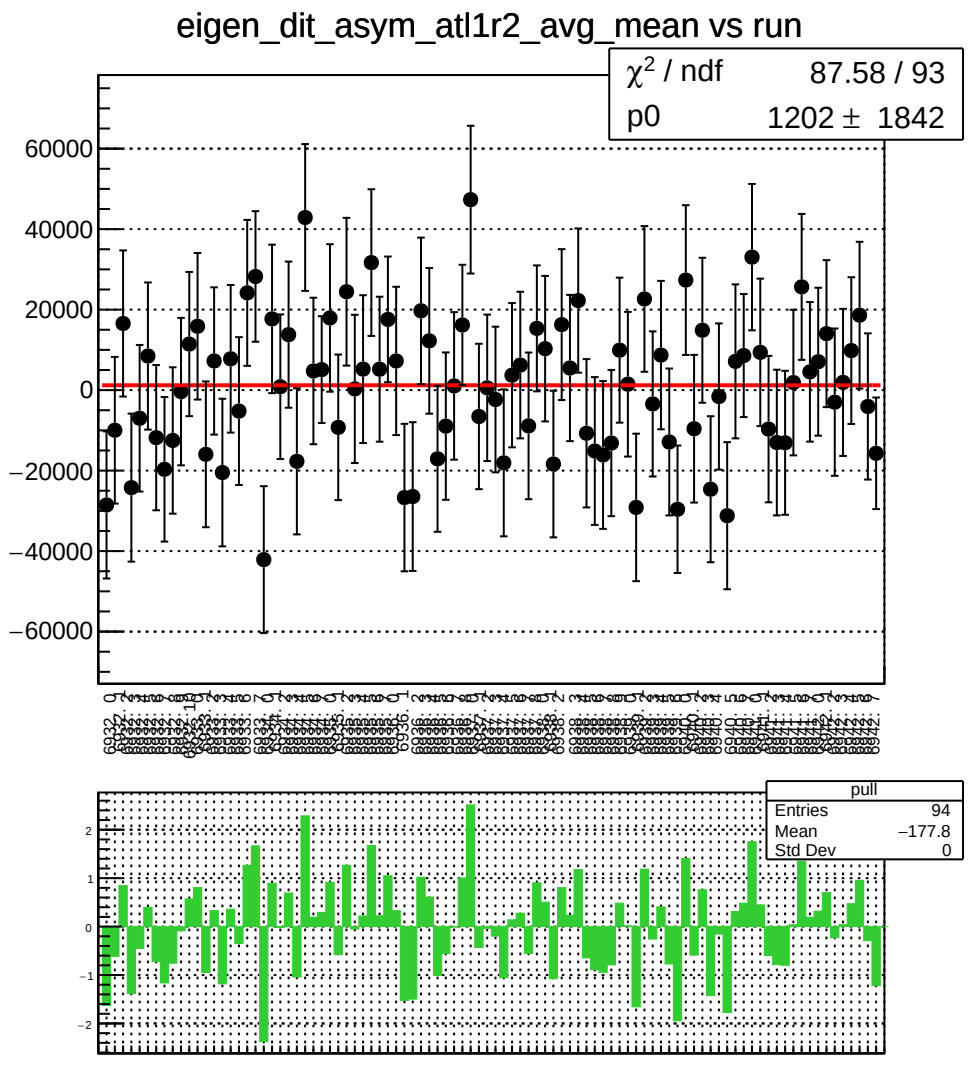

pull1D
Entries 94
Mean −0.002814
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

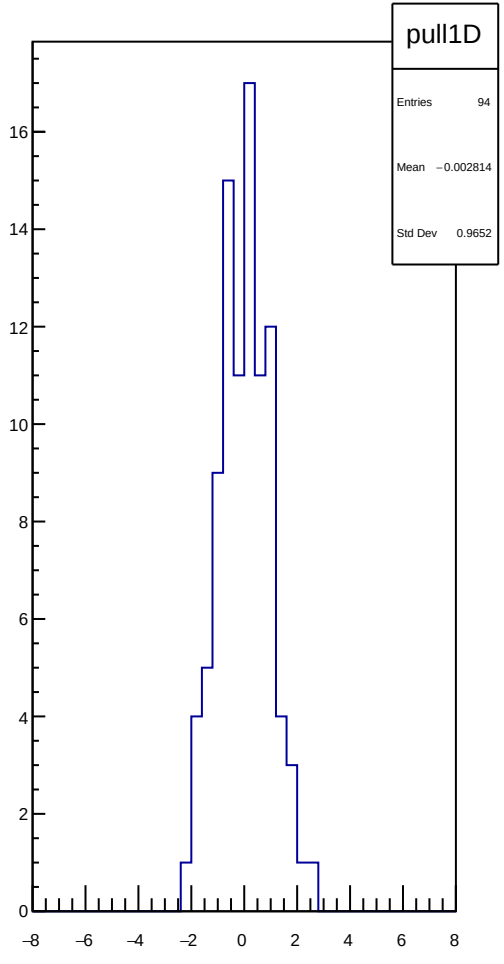

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 164.9 / 93
p0 1730 ± 1.302
1840
1820
1800
1780
1760
1740
1720
1700
1680

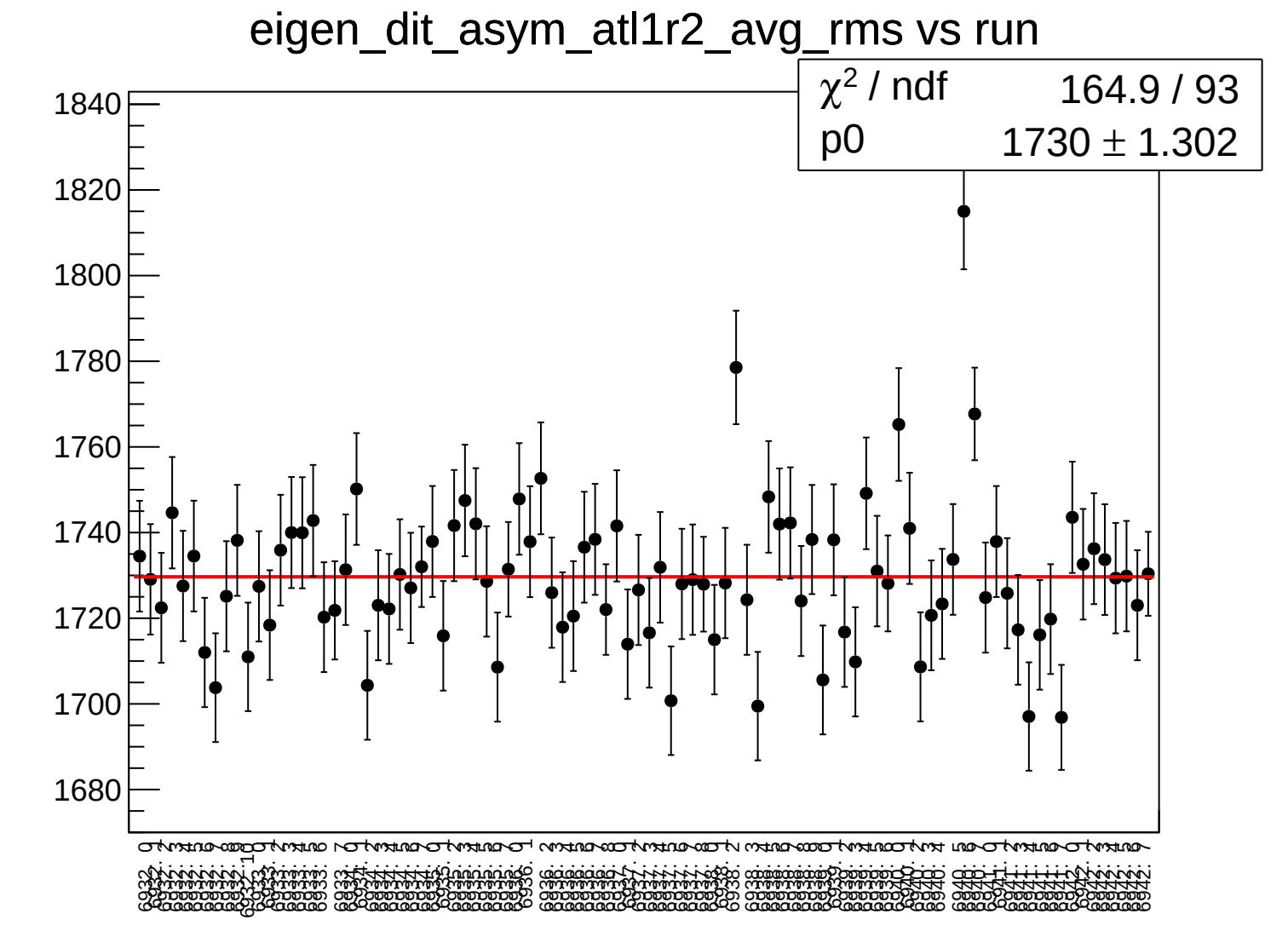

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 85.74 / 93
p0 6926 ± 6225
×10³
200
100
0
−100
−200
pull
Entries 94
Mean 480.9
Std Dev 0
2
1
0
−1
−2

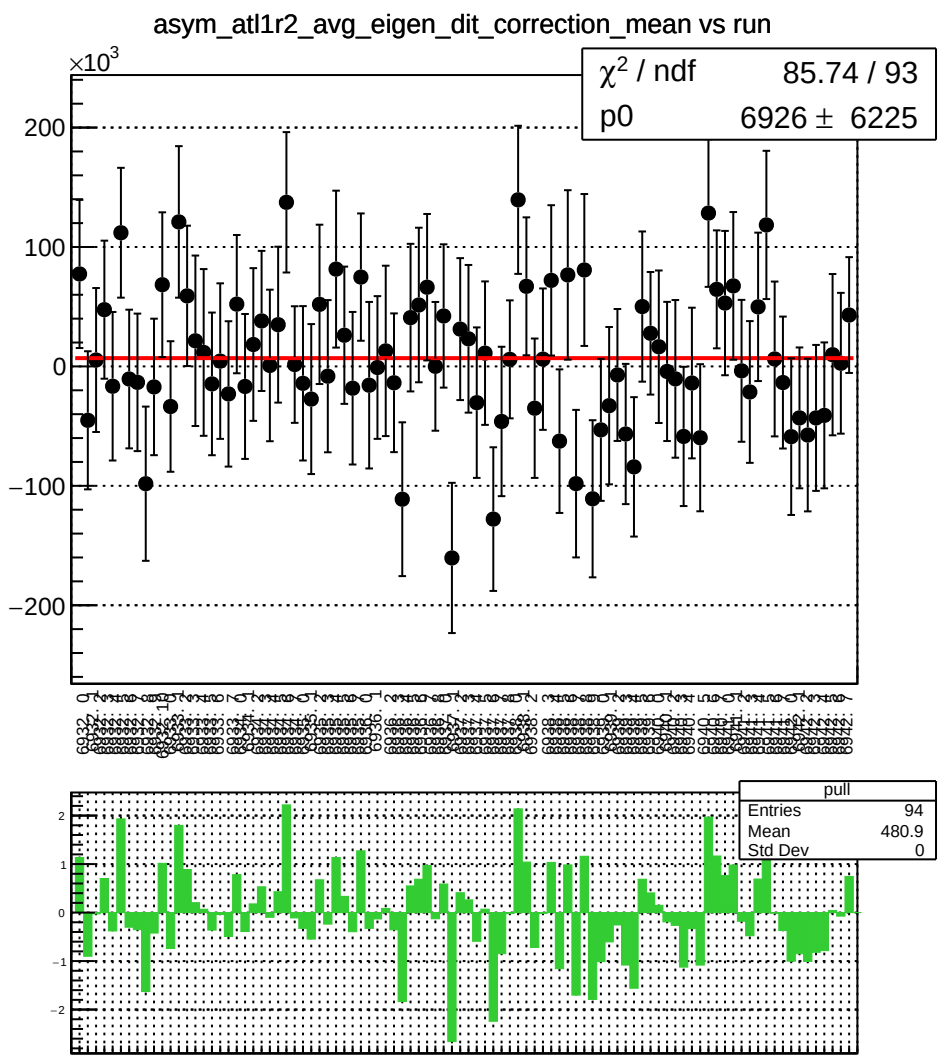

pull1D
Entries 94
Mean −0.007071
Std Dev 0.955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

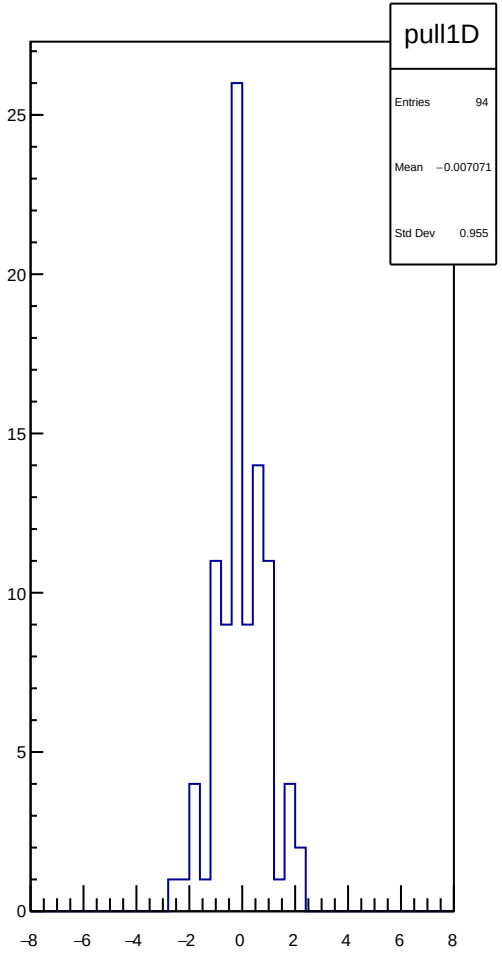

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5814 / 93
p0 5836 ± 4.402
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

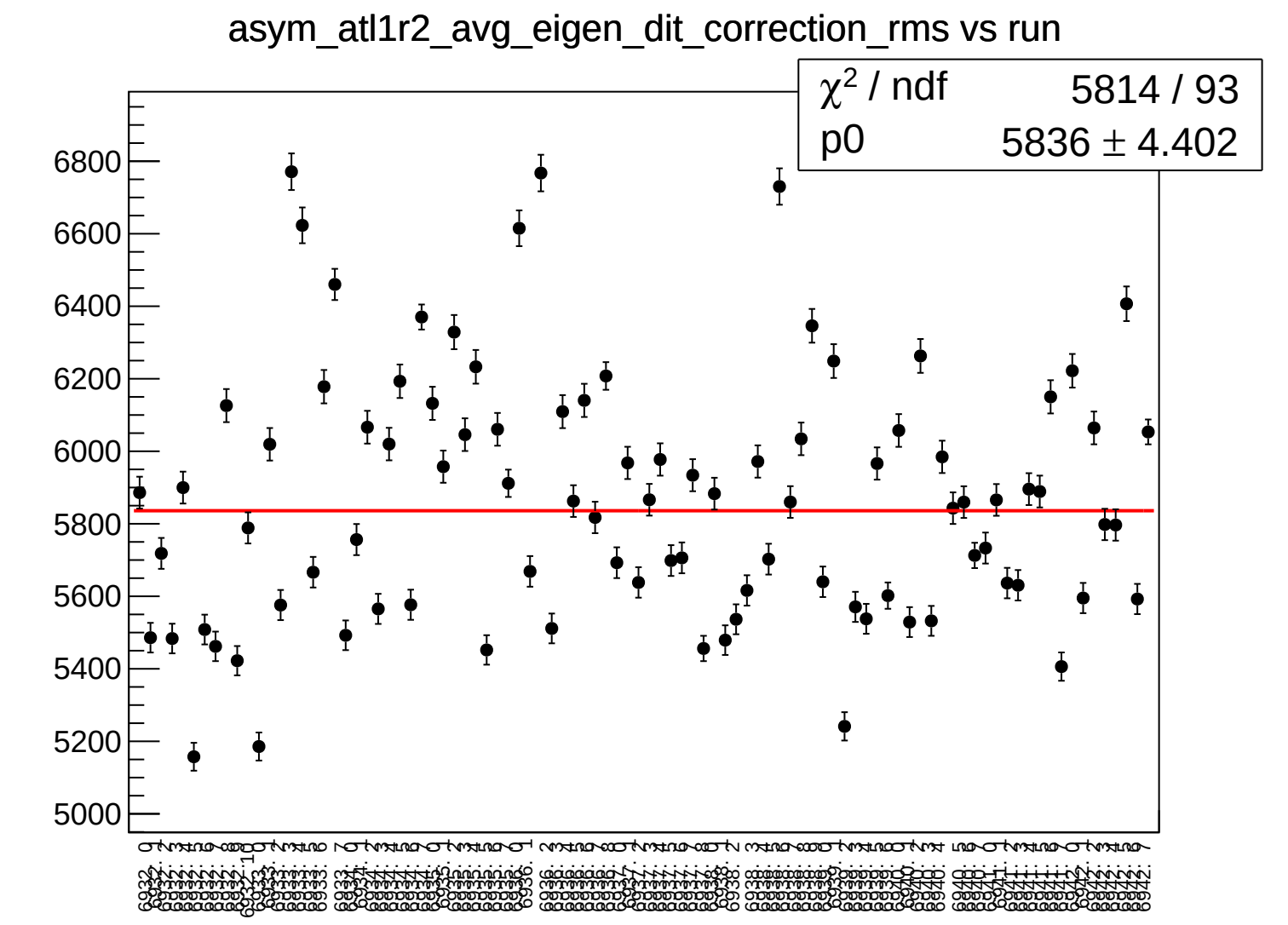

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 87.58 / 93
p0 1202 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −177.8
Std Dev 0
2
1
0
−1
−2

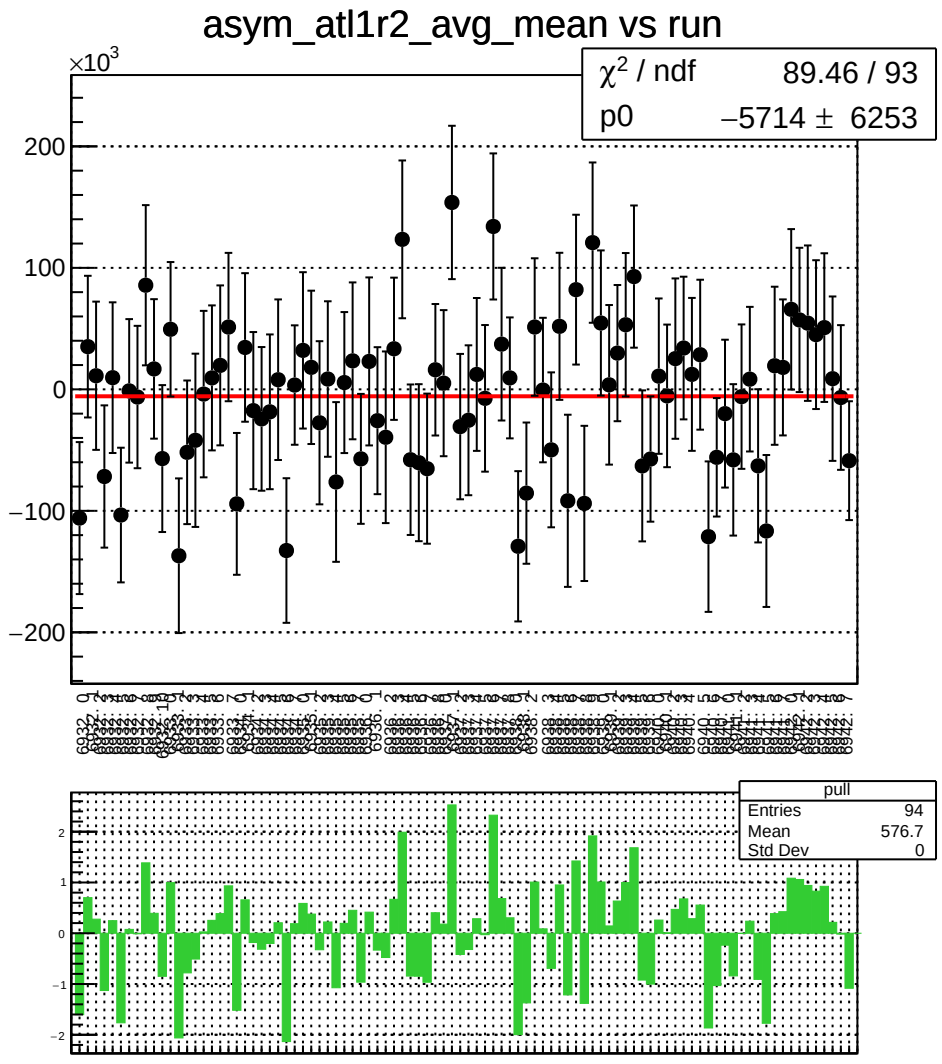

pull1D
Entries 94
Mean −0.002814
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

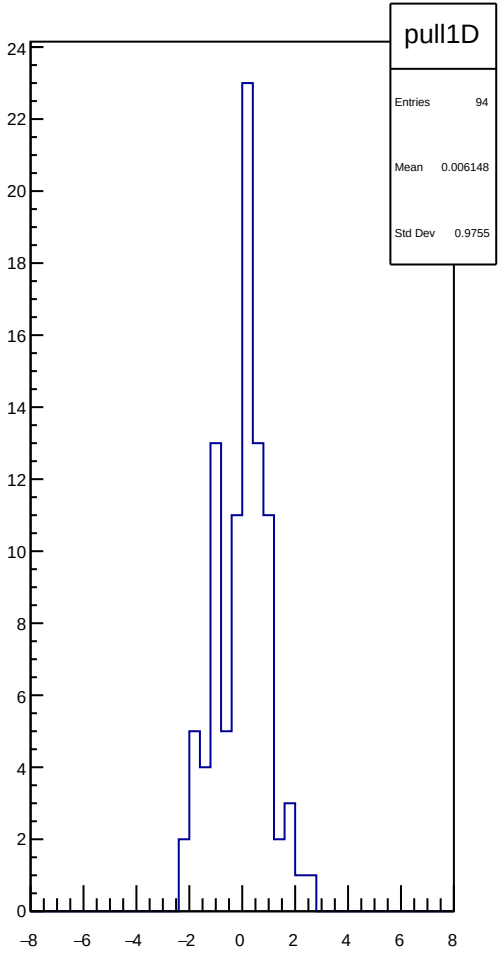

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 164.9 / 93
p0 1730 ± 1.302
1840
1820
1800
1780
1760
1740
1720
1700
1680

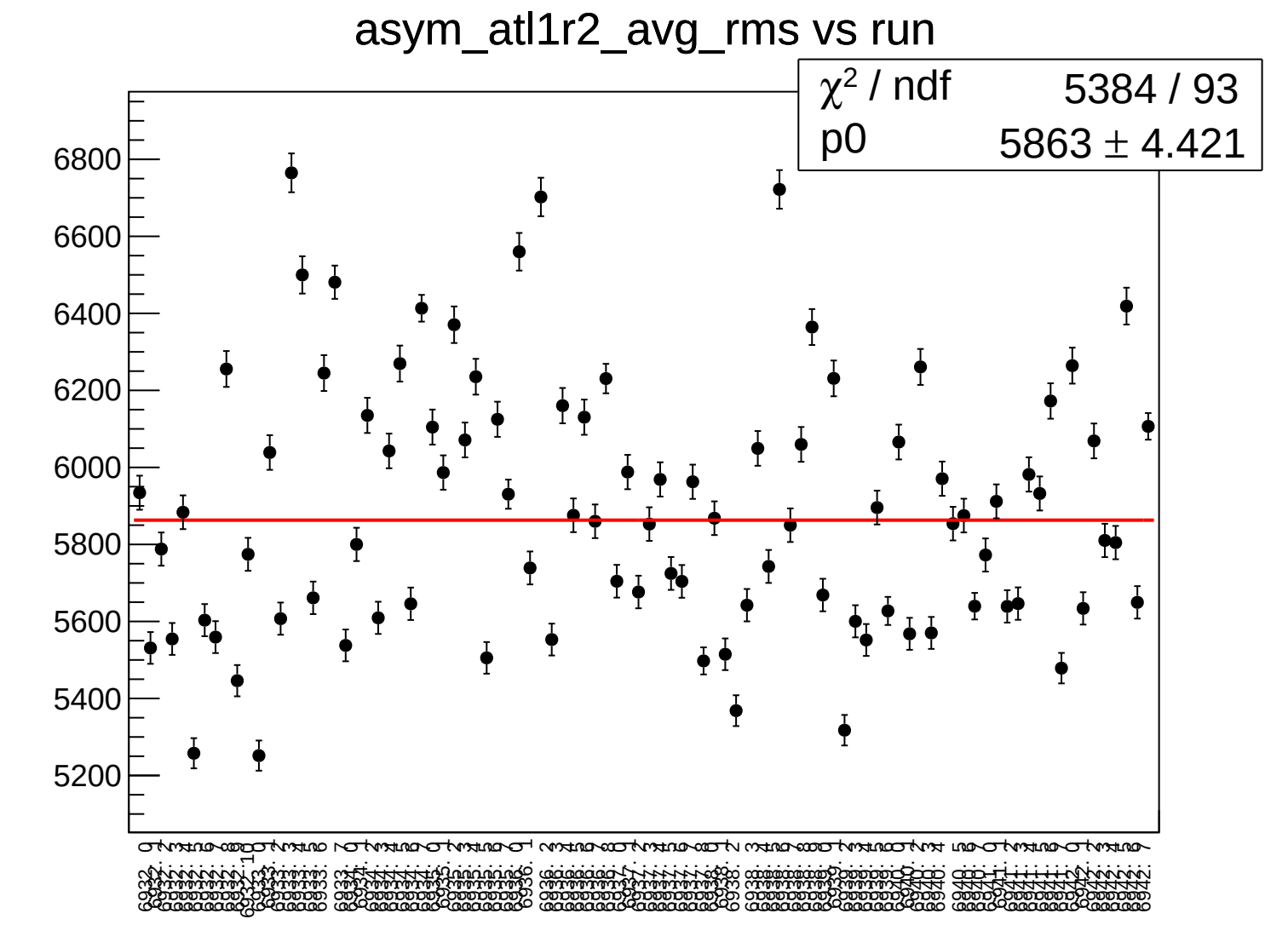

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.74 / 93
p0 6926 ± 6225
200
100
0
−100
−200
pull
Entries 94
Mean 480.9
Std Dev 0
2
1
0
−1
−2

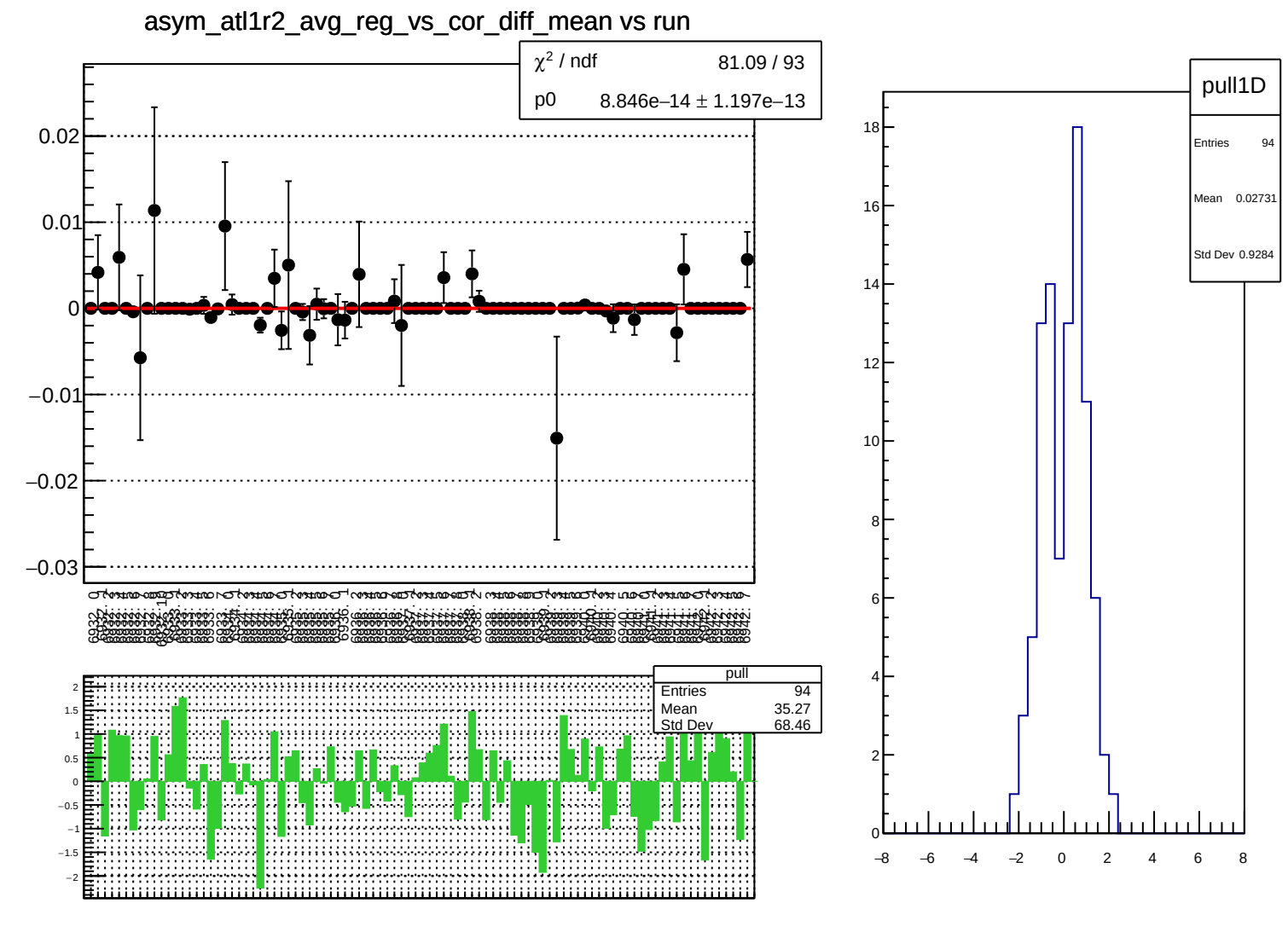

pull1D
Entries 94
Mean −0.007071
Std Dev 0.955
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

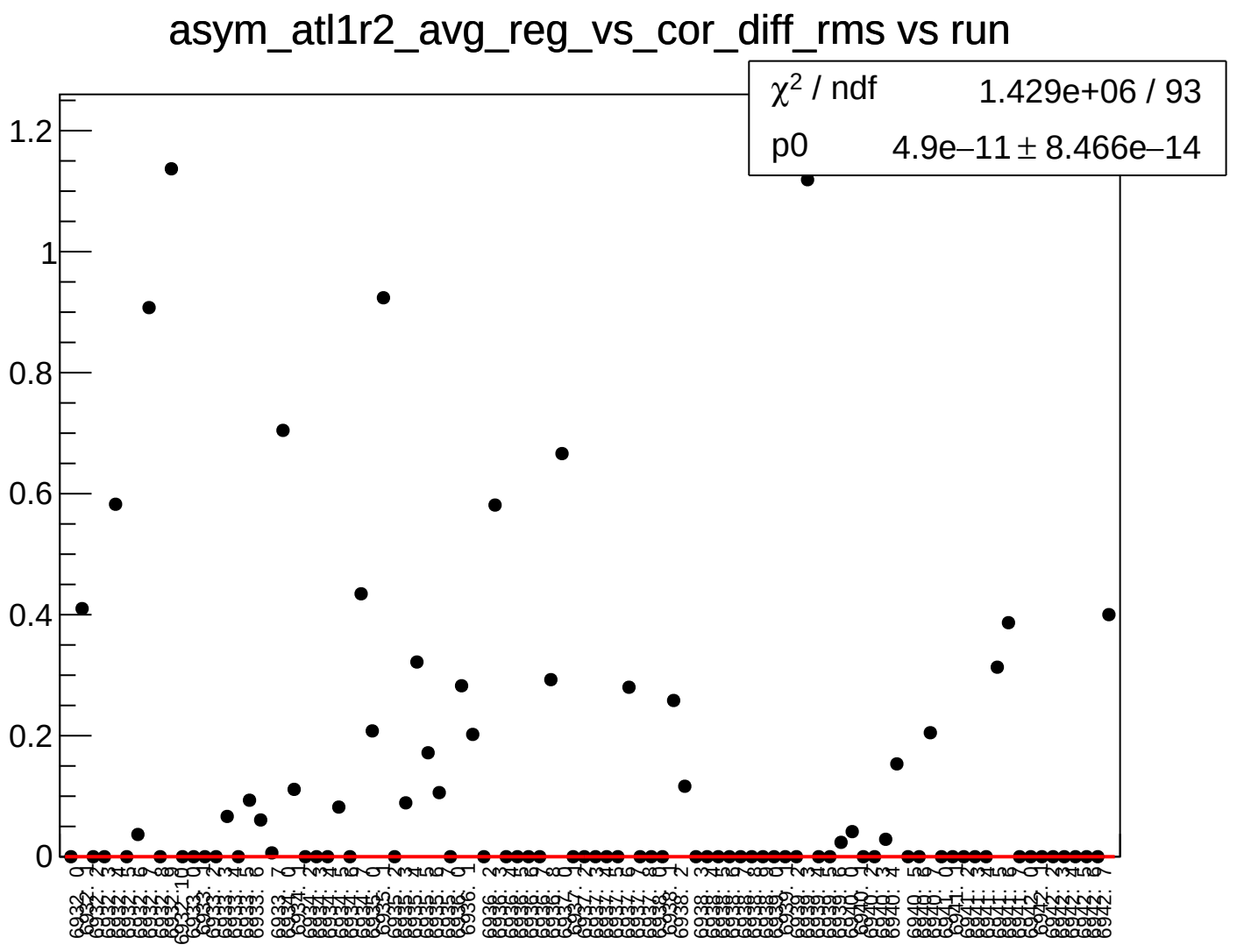

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5814 / 93
p0 5836 ± 4.402
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

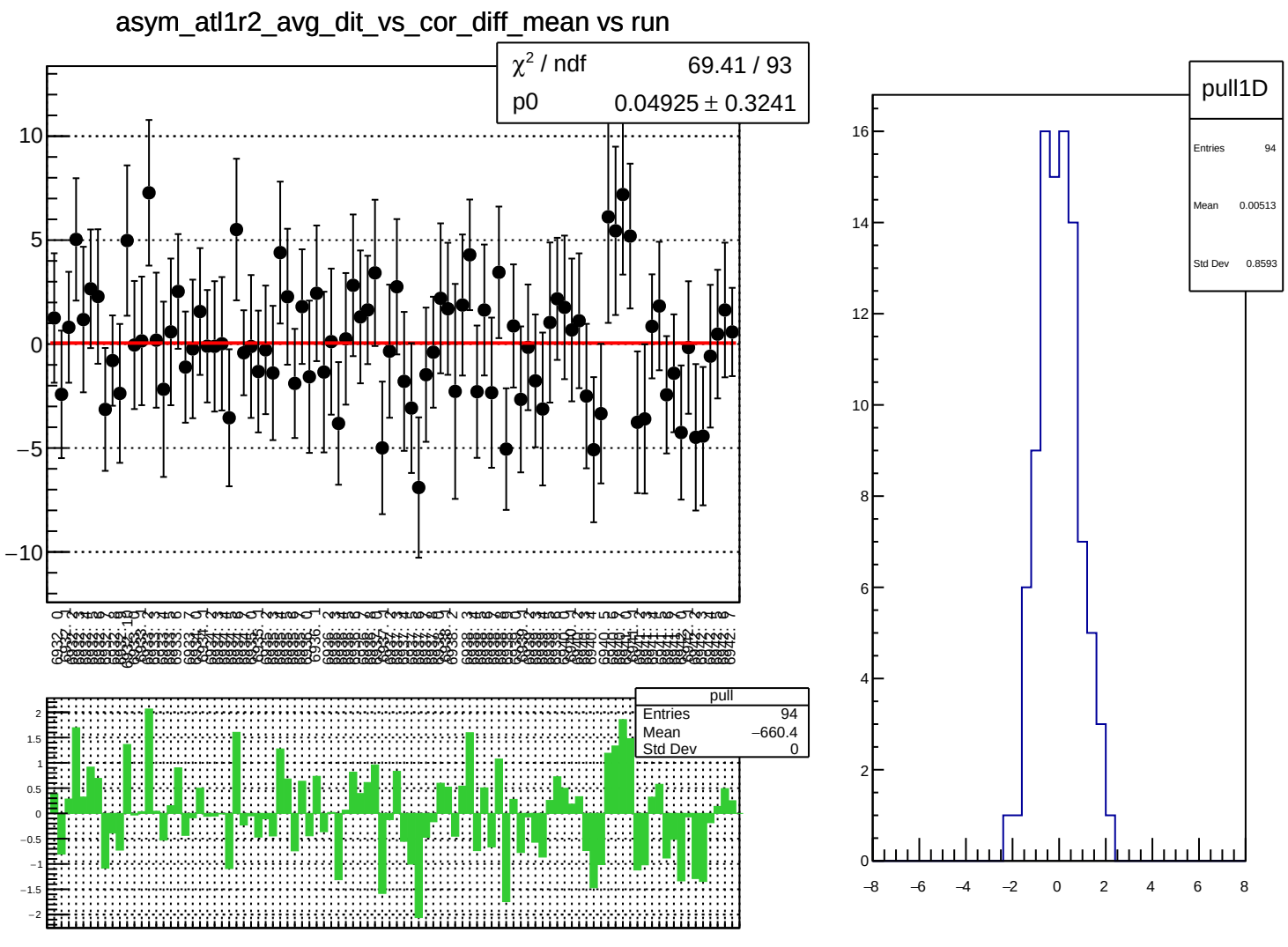

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 89.46 / 93
p0 −5714 ± 6253
200
100
0
−100
−200
pull
Entries 94
Mean 576.7
Std Dev 0
2
1
0
−1
−2

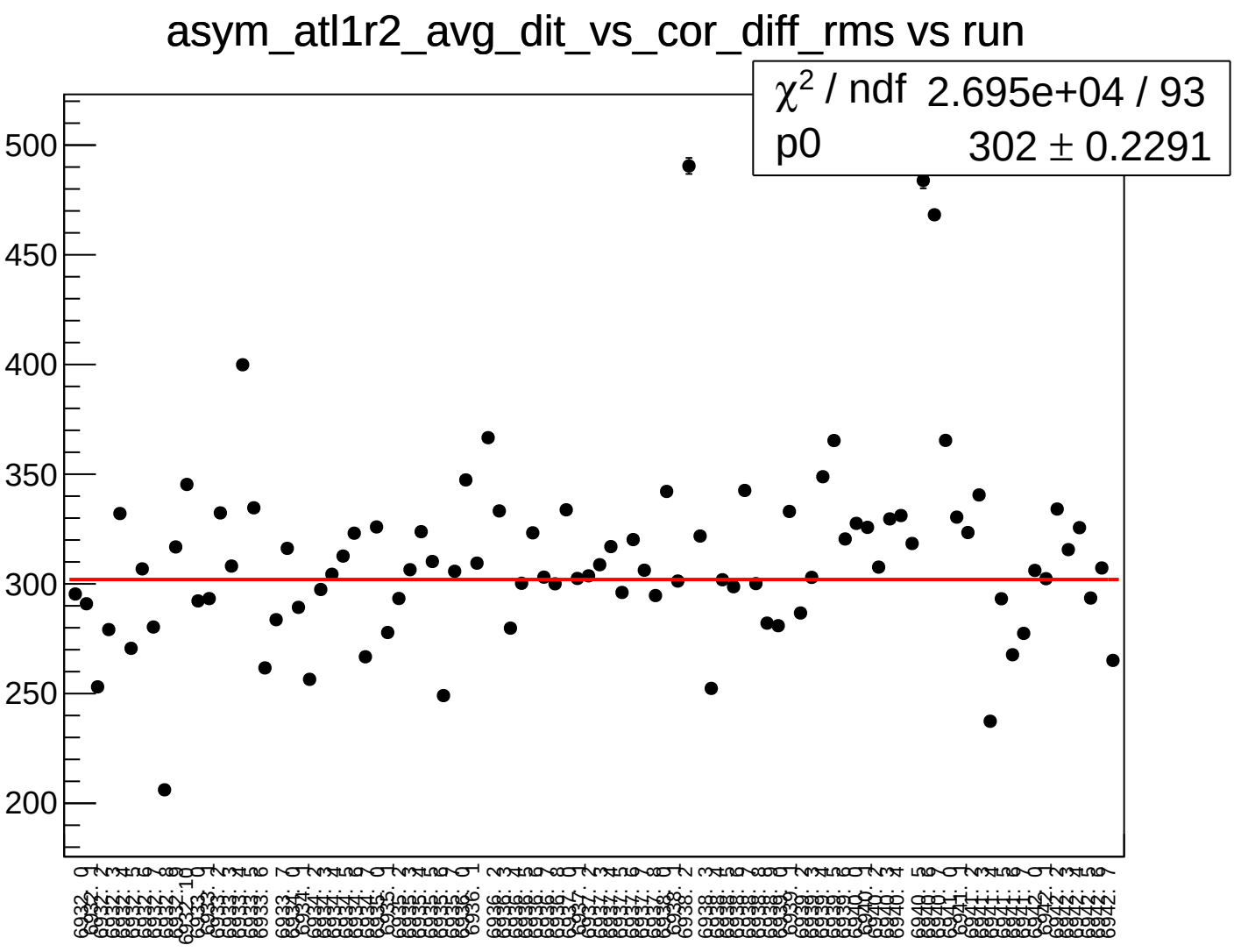

pull1D
Entries 94
Mean 0.006148
Std Dev 0.9755
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

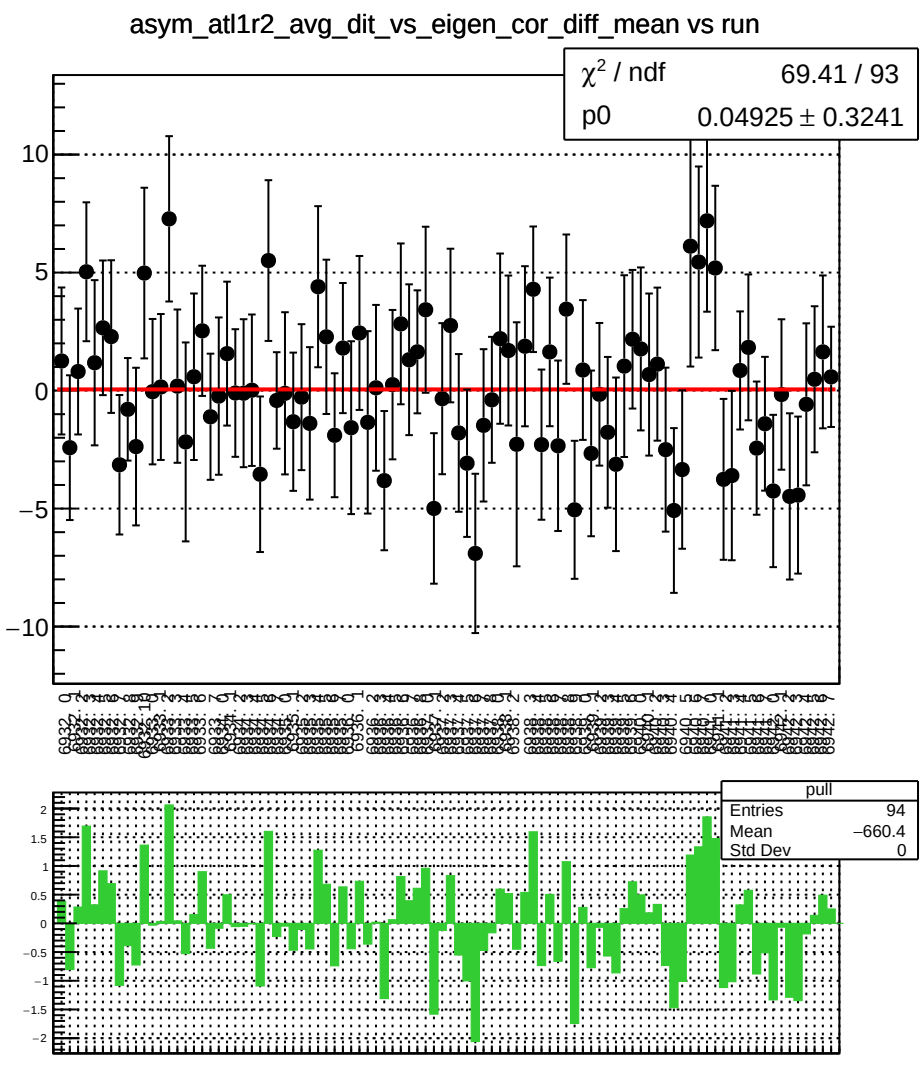

asym_atl1r2_avg_rms vs run
χ² / ndf 5384 / 93
p0 5863 ± 4.421
6800
6600
6400
6200
6000
5800
5600
5400
5200

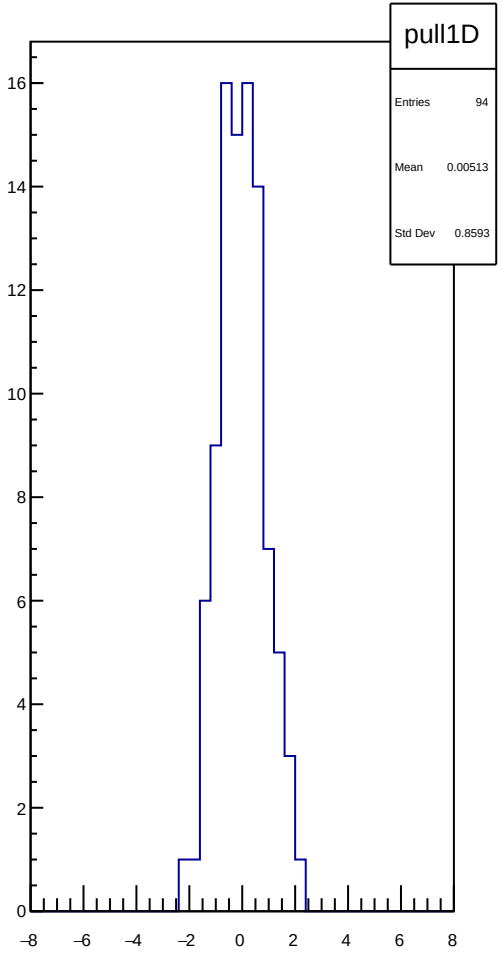

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 93
p0 8.846e−14 ± 1.197e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 35.27
Std Dev 68.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.02731
Std Dev 0.9284
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

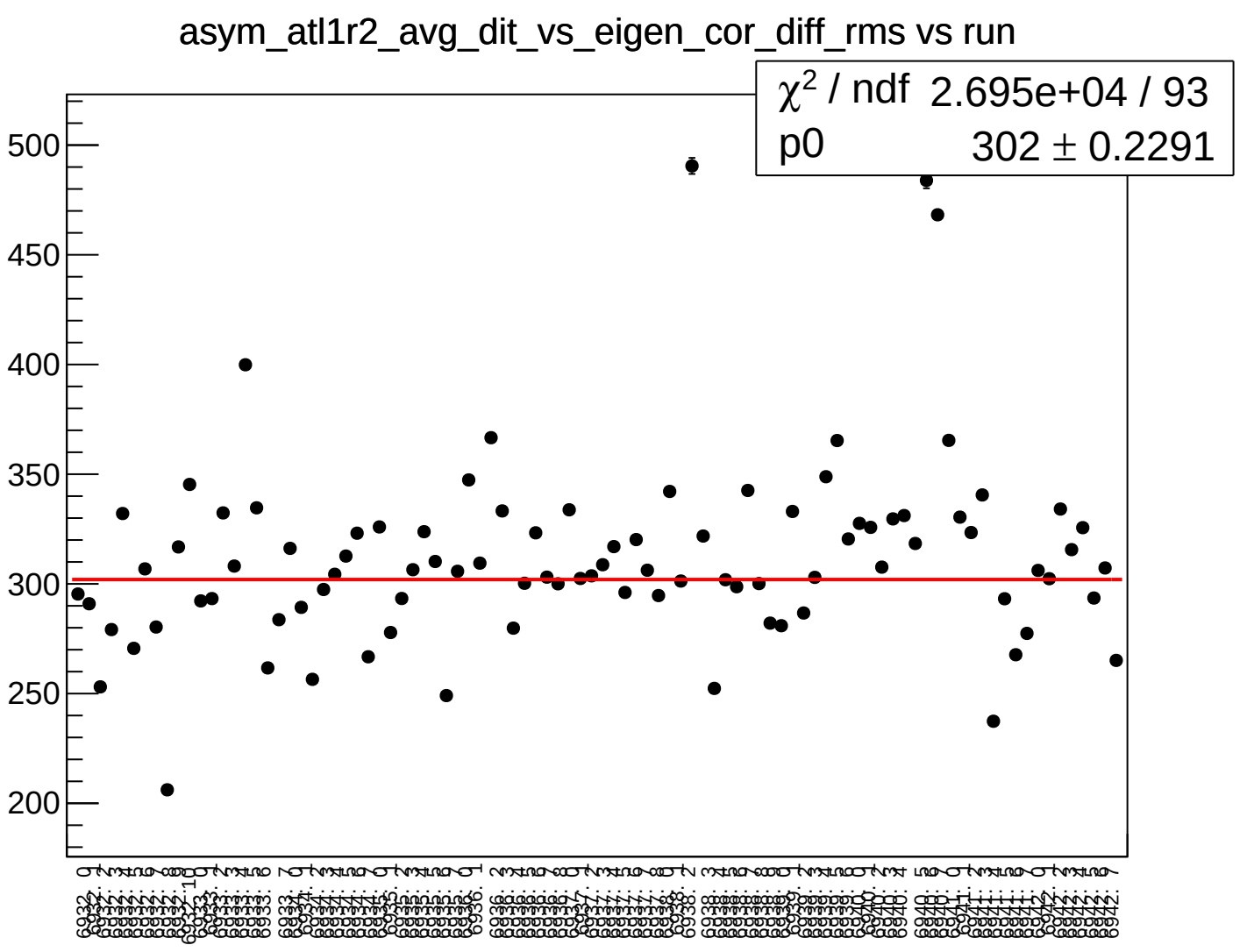

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.429e+06 / 93
p0 4.9e−11 ± 8.466e−14
1.2
1
0.8
0.6
0.4
0.2
0

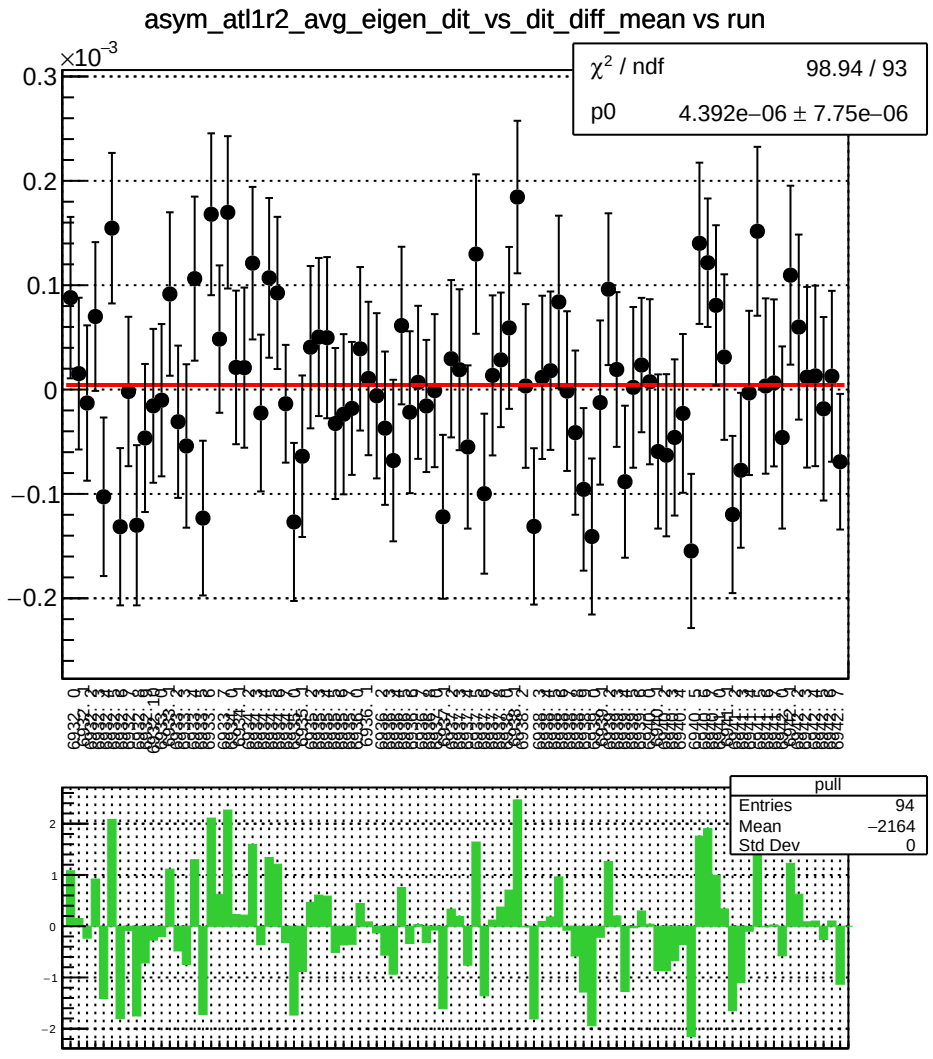

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 0.04925 ± 0.3241
pull
Entries 94
Mean −660.4
Std Dev 0
pull1D
Entries 94
Mean 0.00513
Std Dev 0.8593

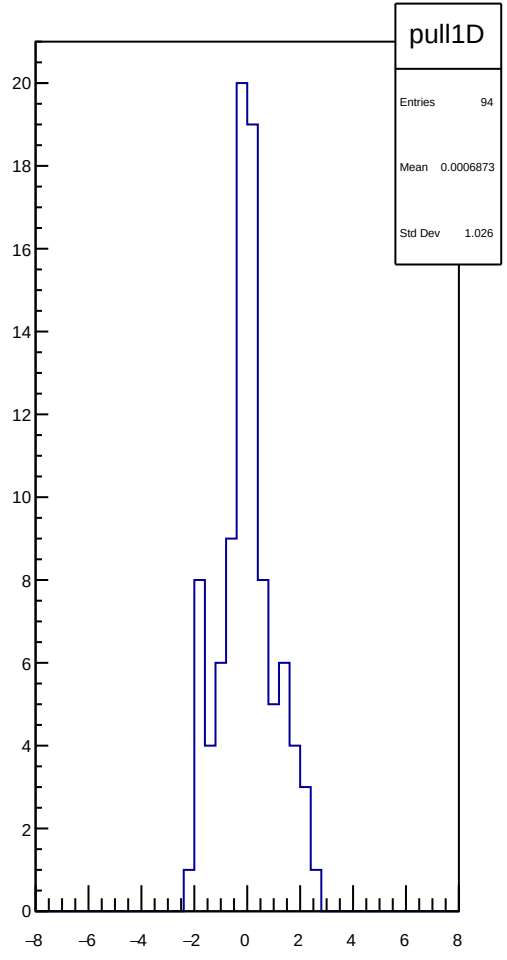

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 93
p0 302 ± 0.2291
500
450
400
350
300
250
200

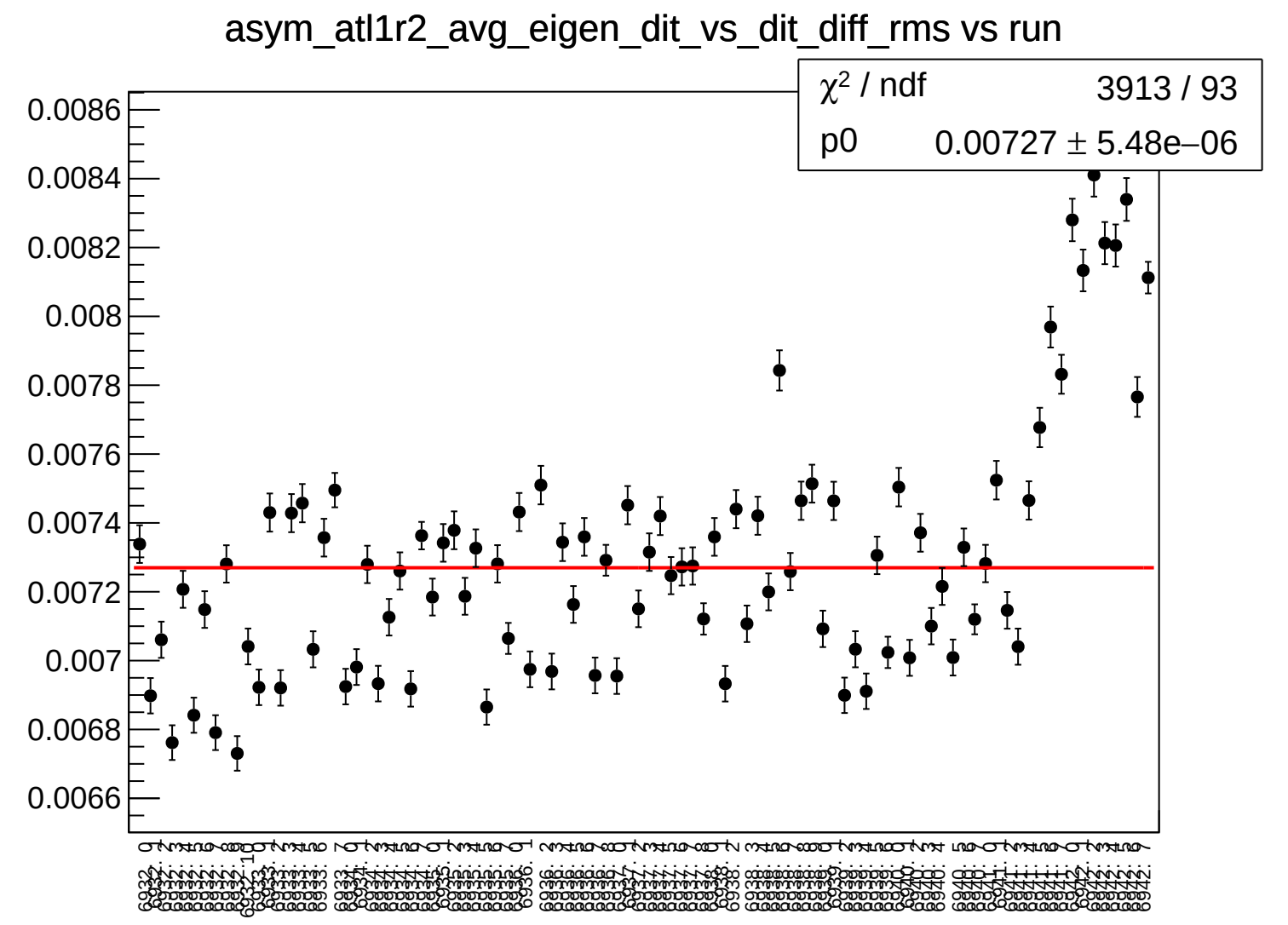

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 0.04925 ± 0.3241
pull
Entries 94
Mean −660.4
Std Dev 0

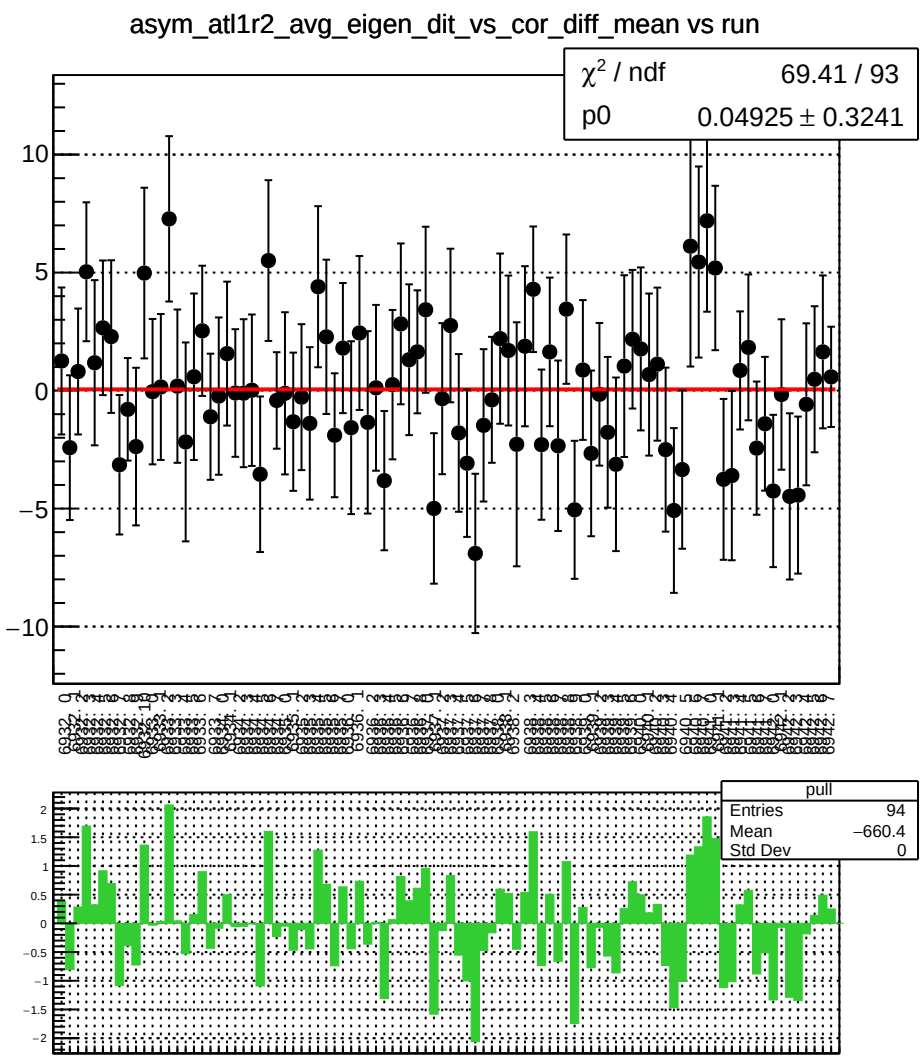

pull1D
Entries 94
Mean 0.00513
Std Dev 0.8593

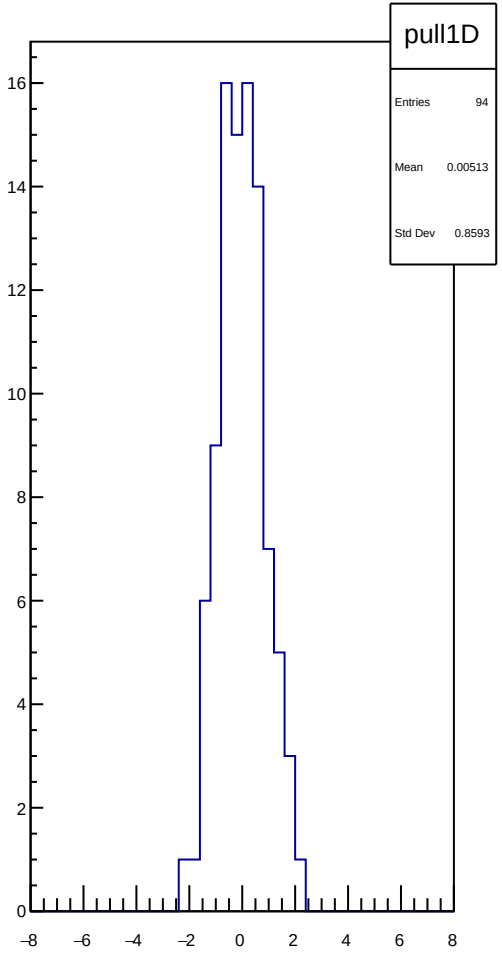

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 93
p0 302 ± 0.2291
500
450
400
350
300
250
200

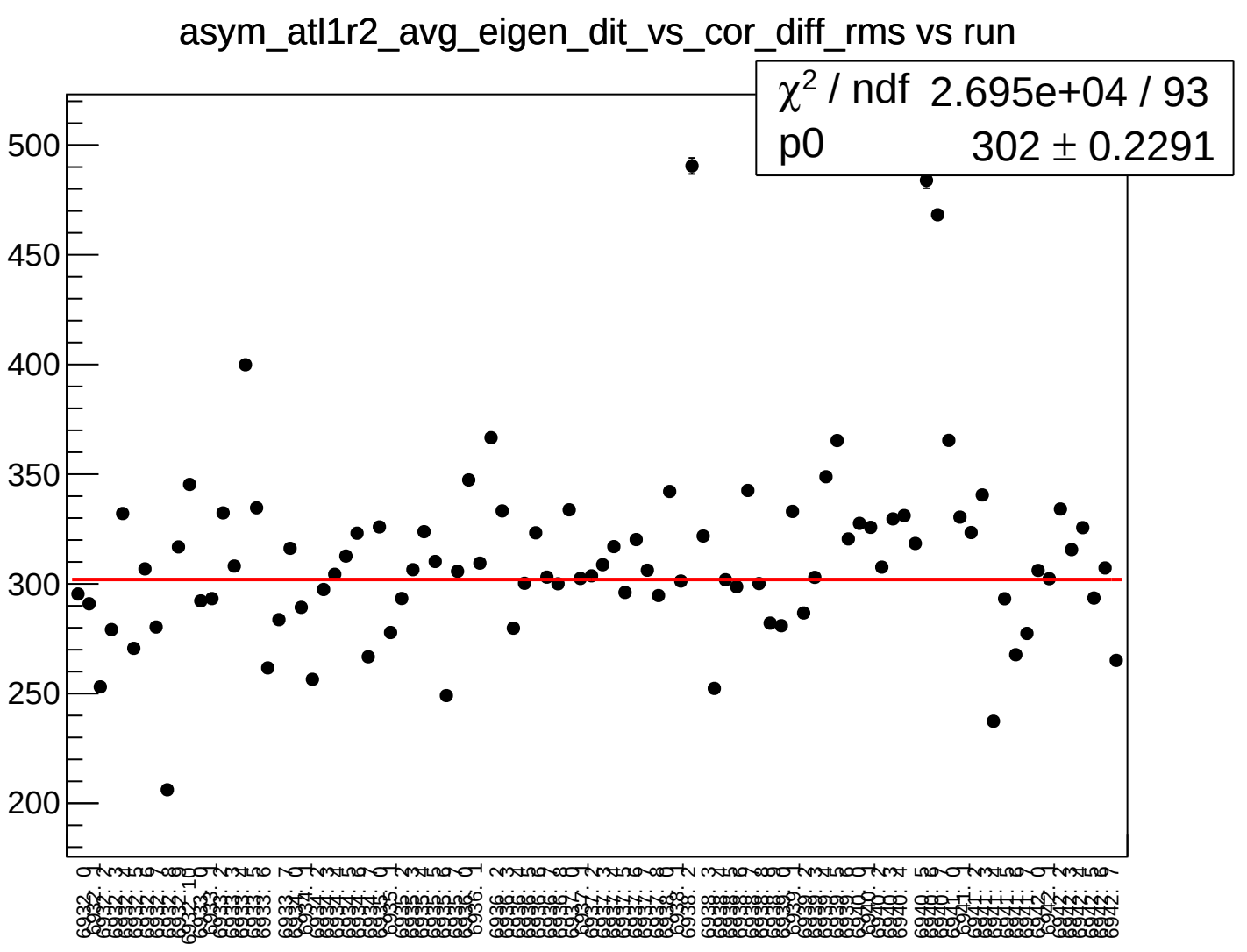

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.94 / 93
p0 4.392e−06 ± 7.75e−06
pull
Entries 94
Mean −2164
Std Dev 0

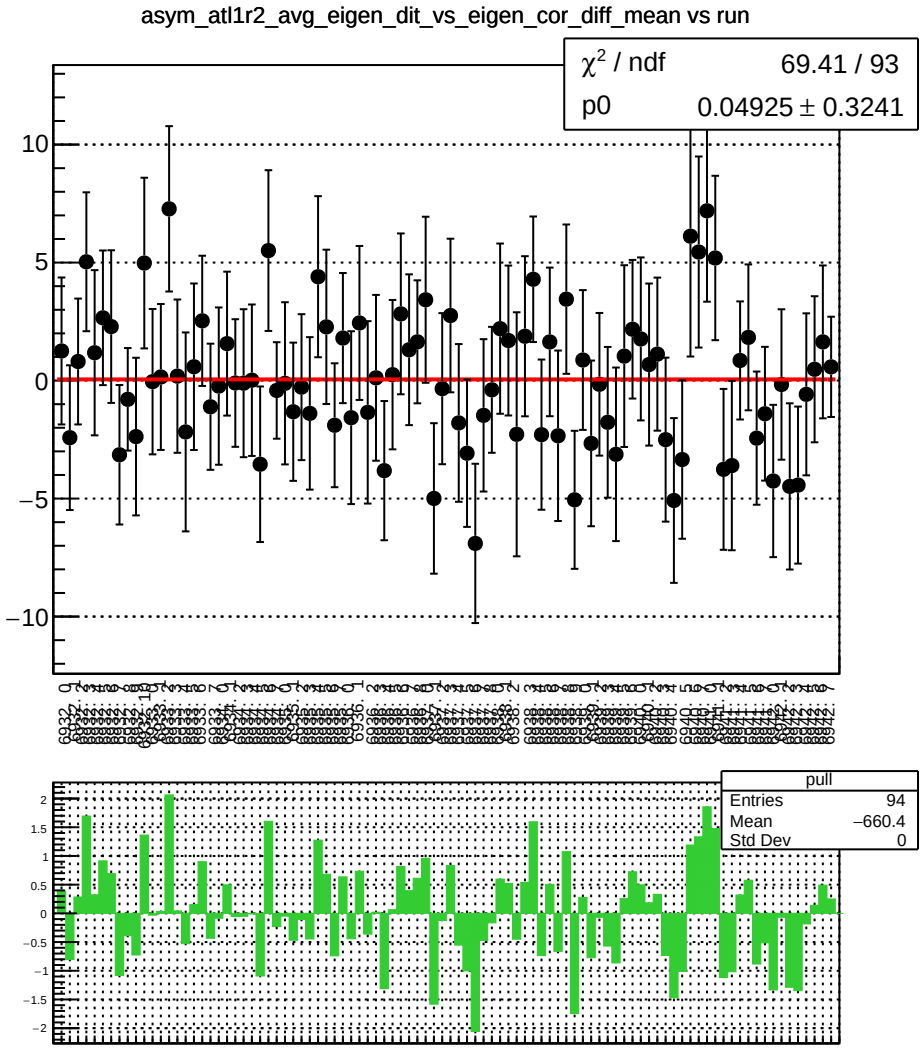

pull1D
Entries 94
Mean 0.0006873
Std Dev 1.026

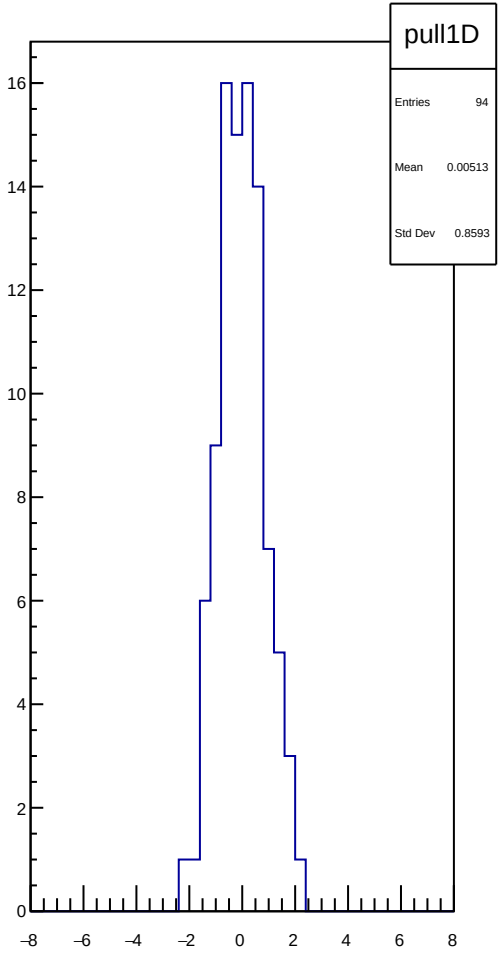

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3913 / 93
p0 0.00727 ± 5.48e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

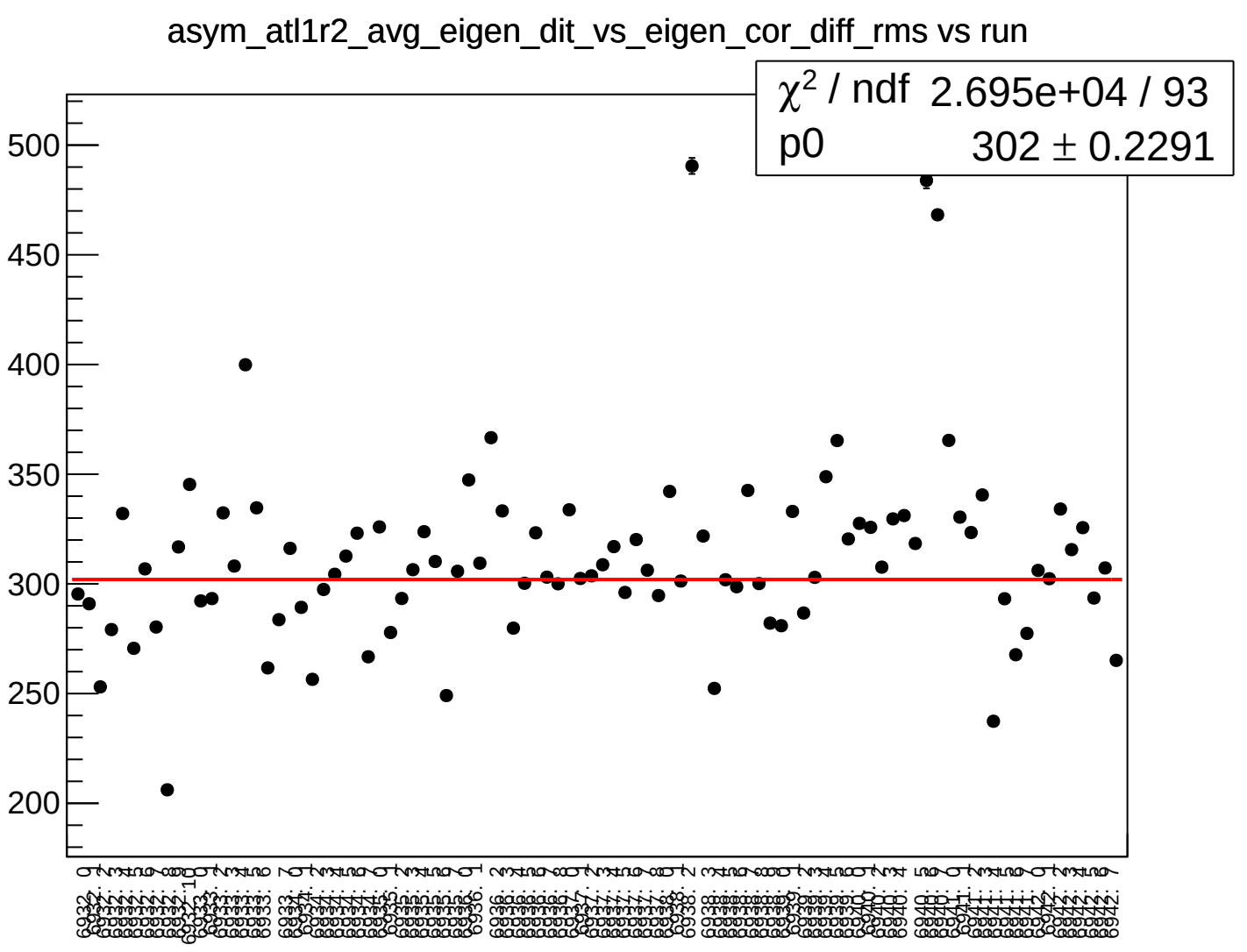

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 0.04925 ± 0.3241
pull
Entries 94
Mean −660.4
Std Dev 0

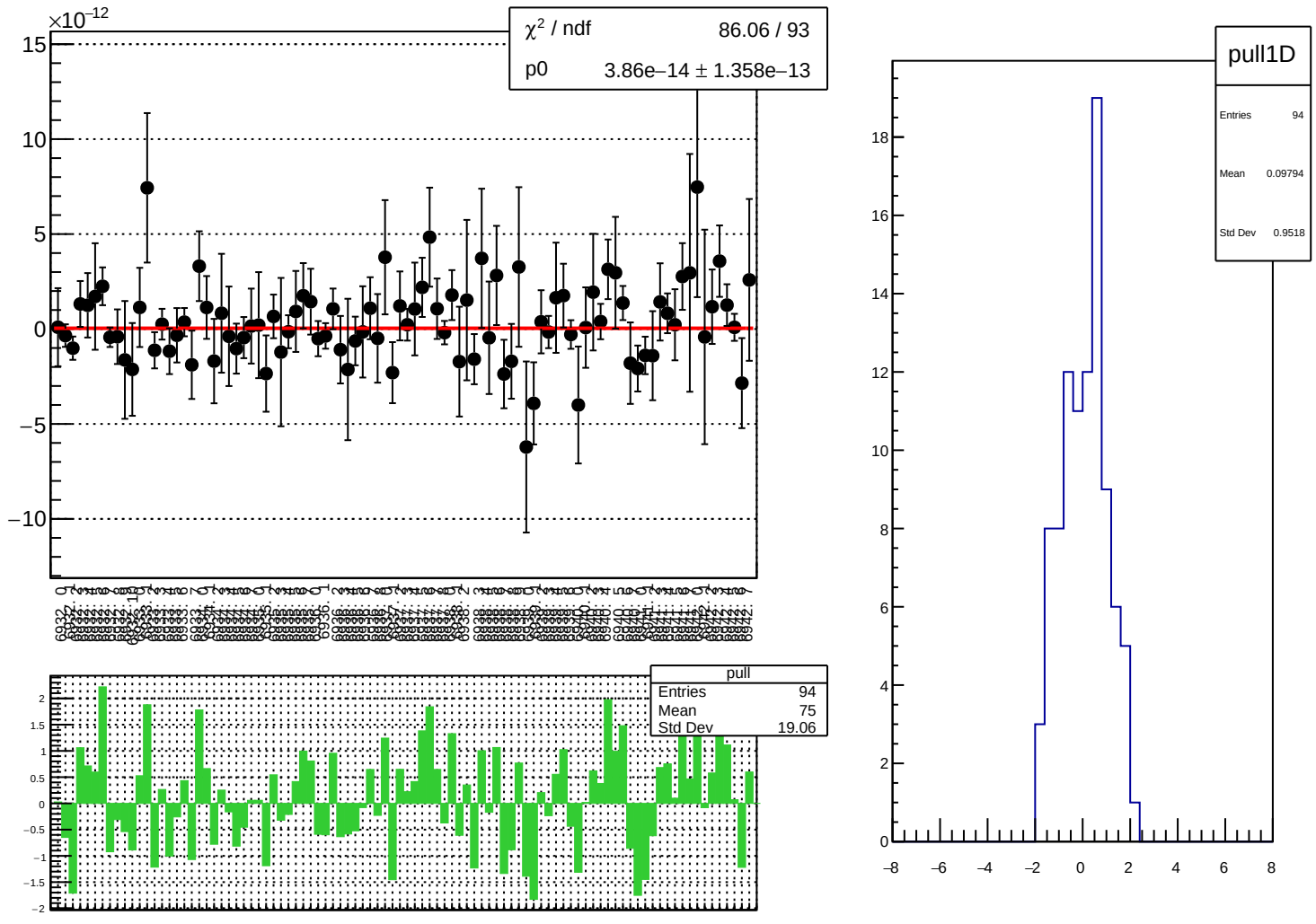

pull1D
Entries 94
Mean 0.00513
Std Dev 0.8593

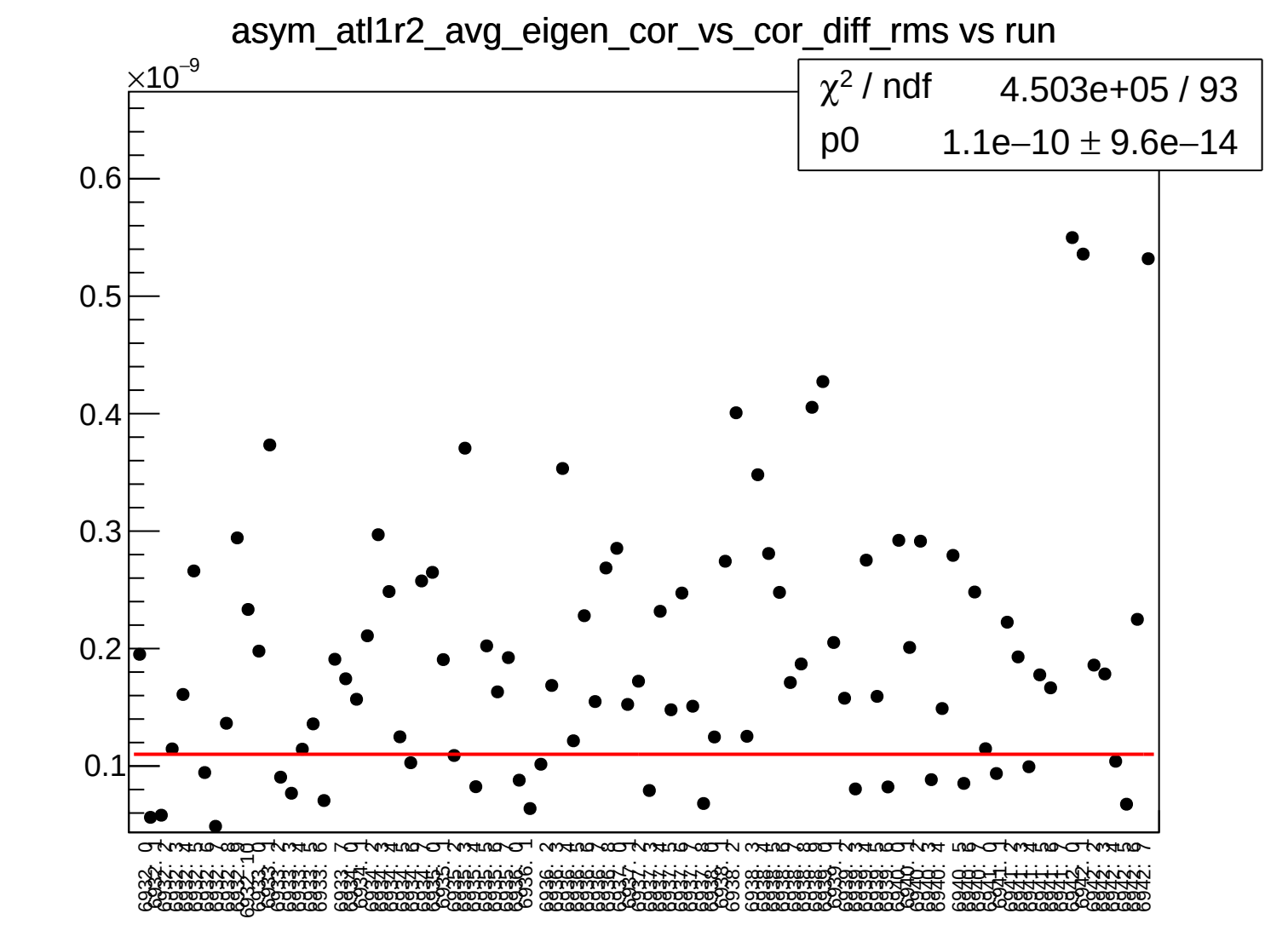

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 93
p0 302 ± 0.2291
500
450
400
350
300
250
200

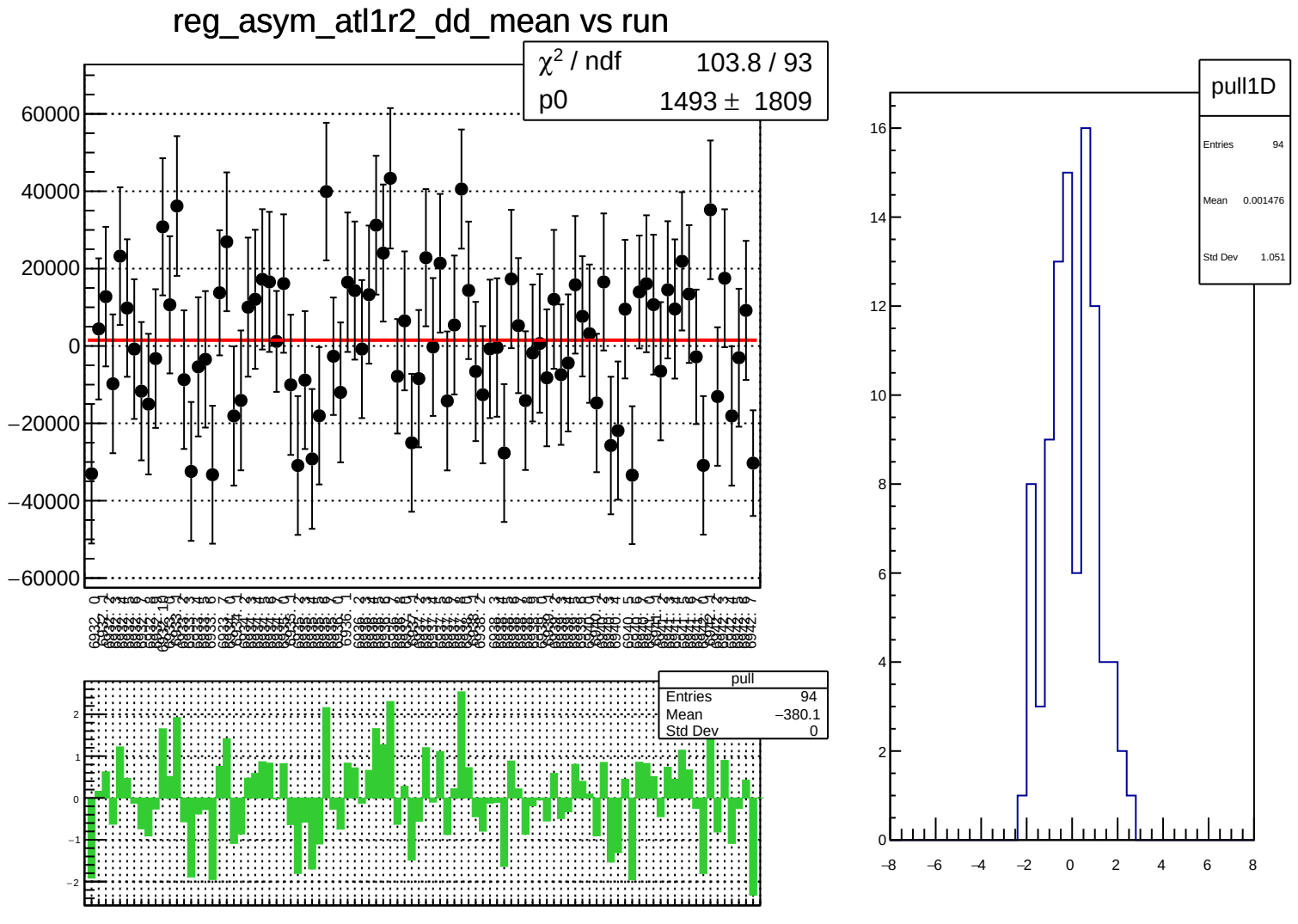

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.41 / 93
p0 0.04925 ± 0.3241
pull
Entries 94
Mean −660.4
Std Dev 0

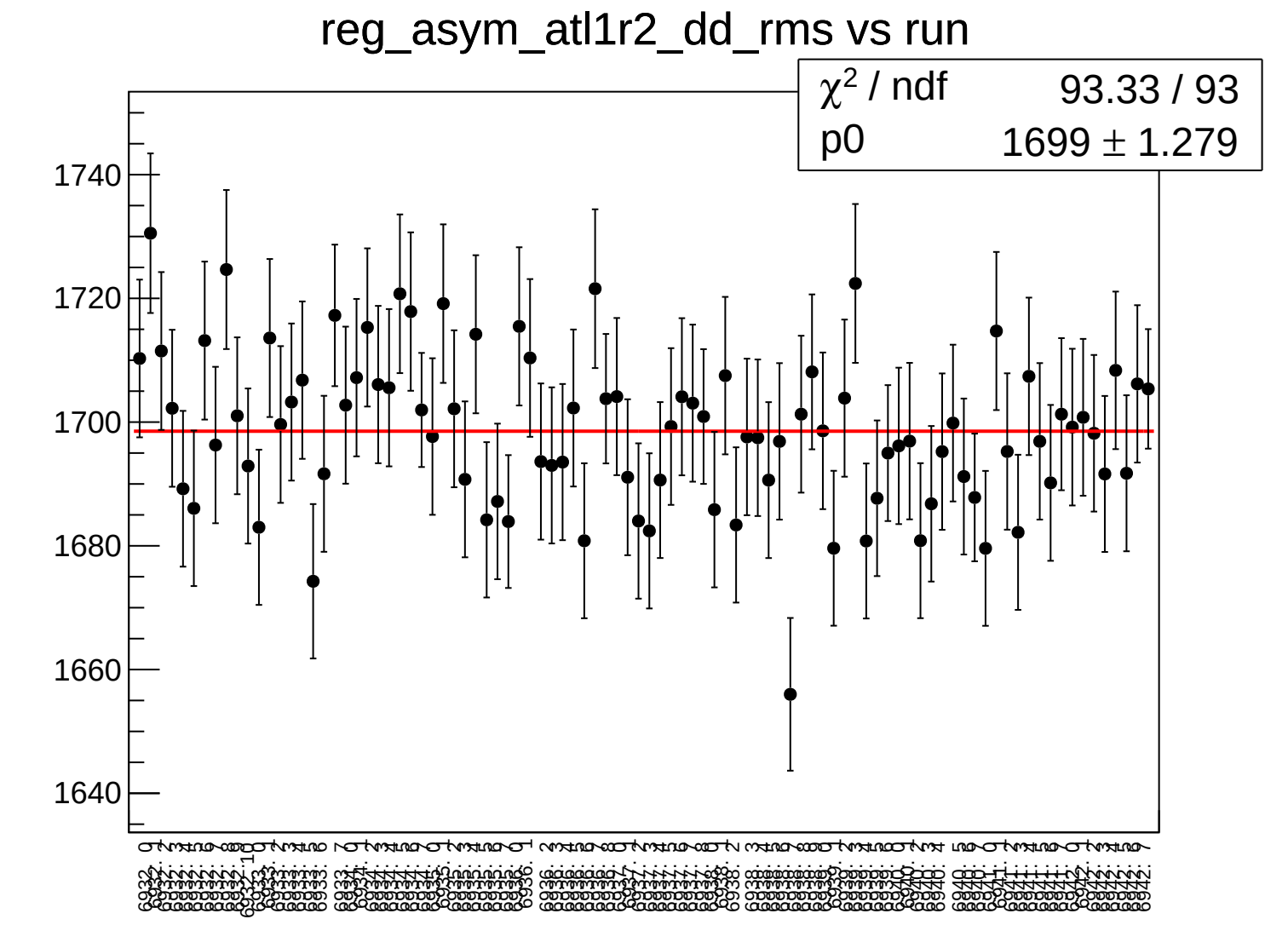

pull1D
Entries 94
Mean 0.00513
Std Dev 0.8593

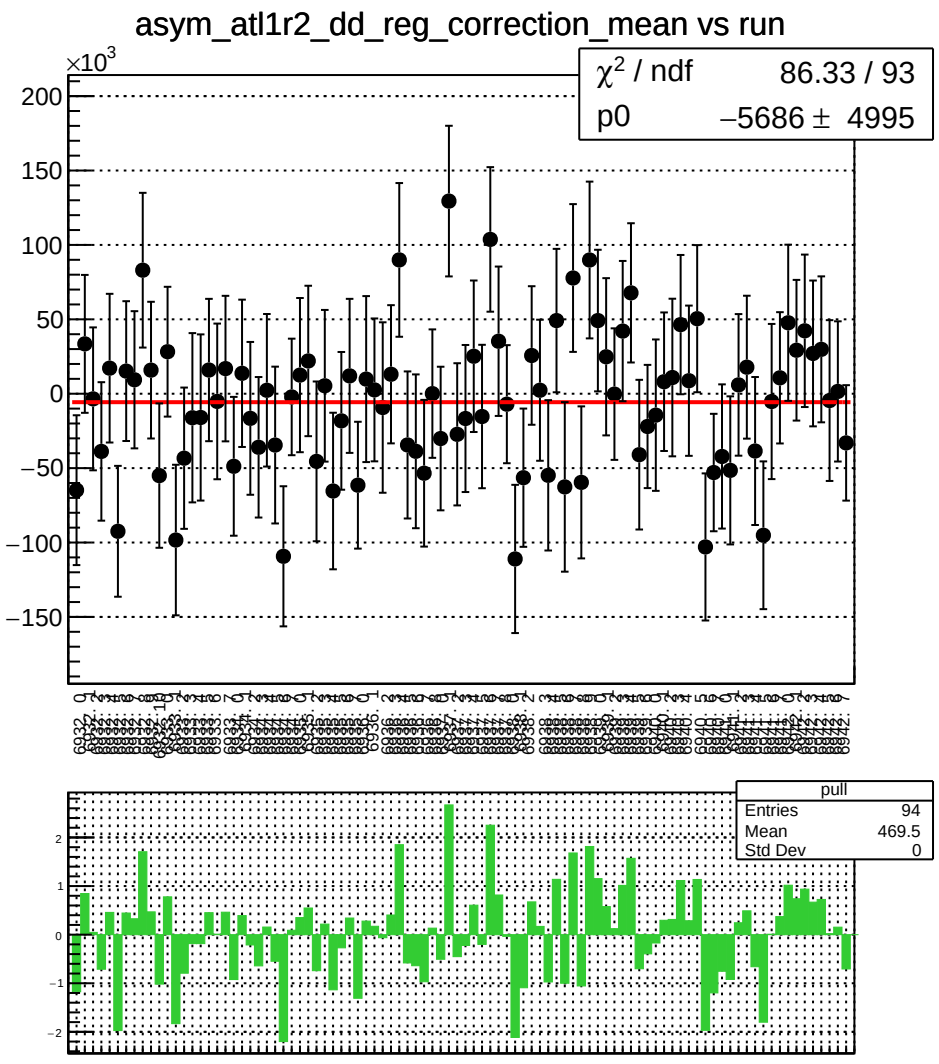

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.695e+04 / 93
p0 302 ± 0.2291
500
450
400
350
300
250
200

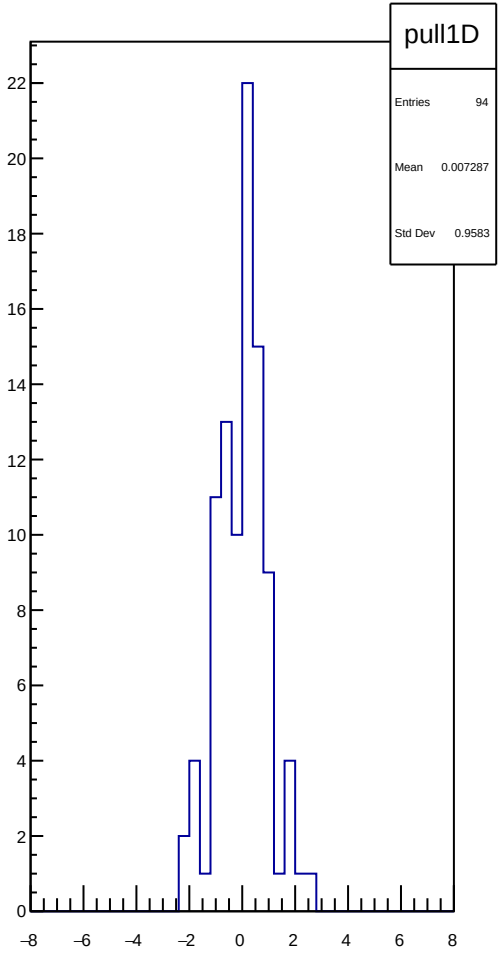

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.06 / 93
p0 3.86e−14 ± 1.358e−13
pull
Entries 94
Mean 75
Std Dev 19.06
pull1D
Entries 94
Mean 0.09794
Std Dev 0.9518

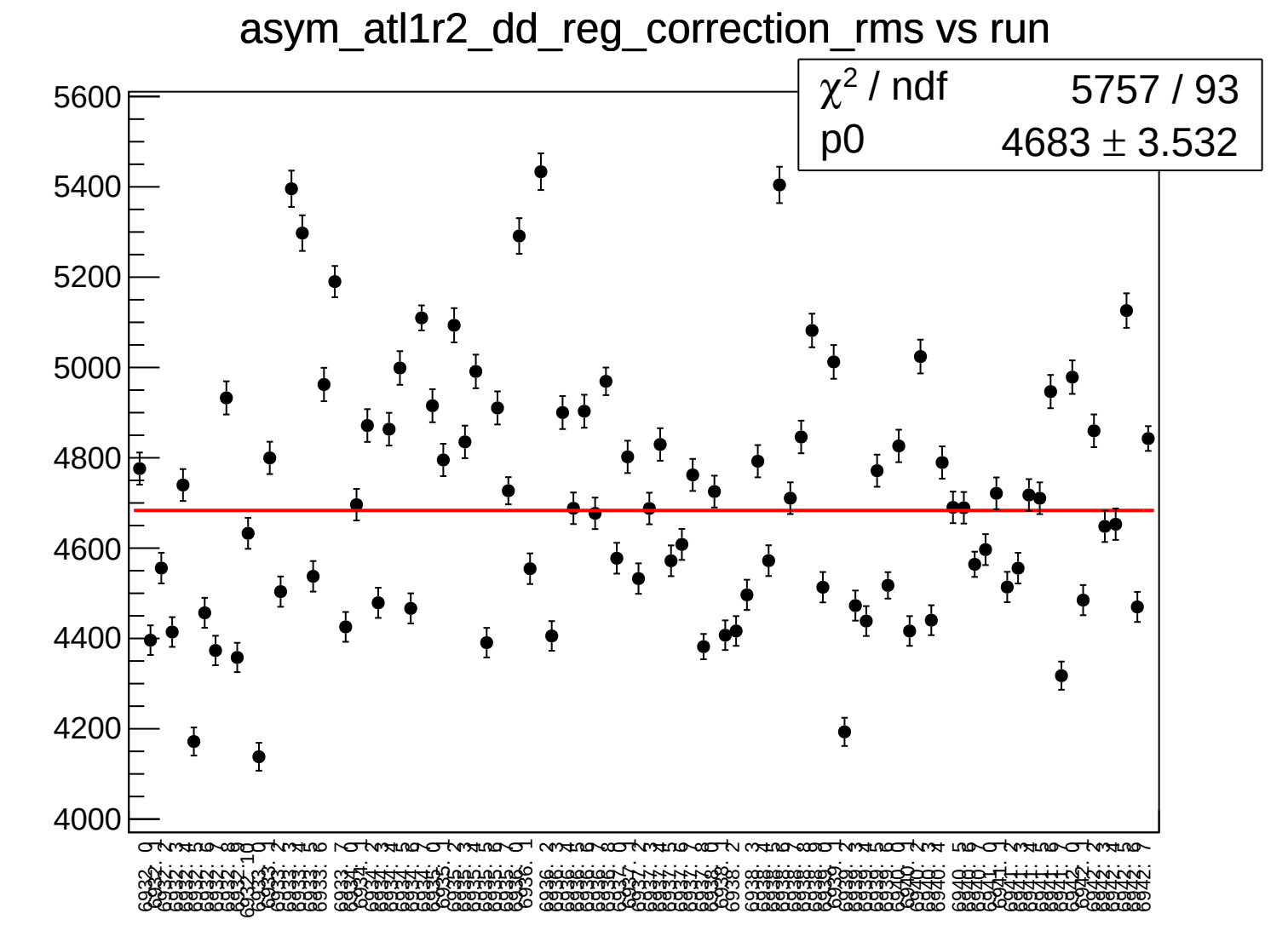

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.503e+05 / 93
p0 1.1e−10 ± 9.6e−14
0.6
0.5
0.4
0.3
0.2
0.1

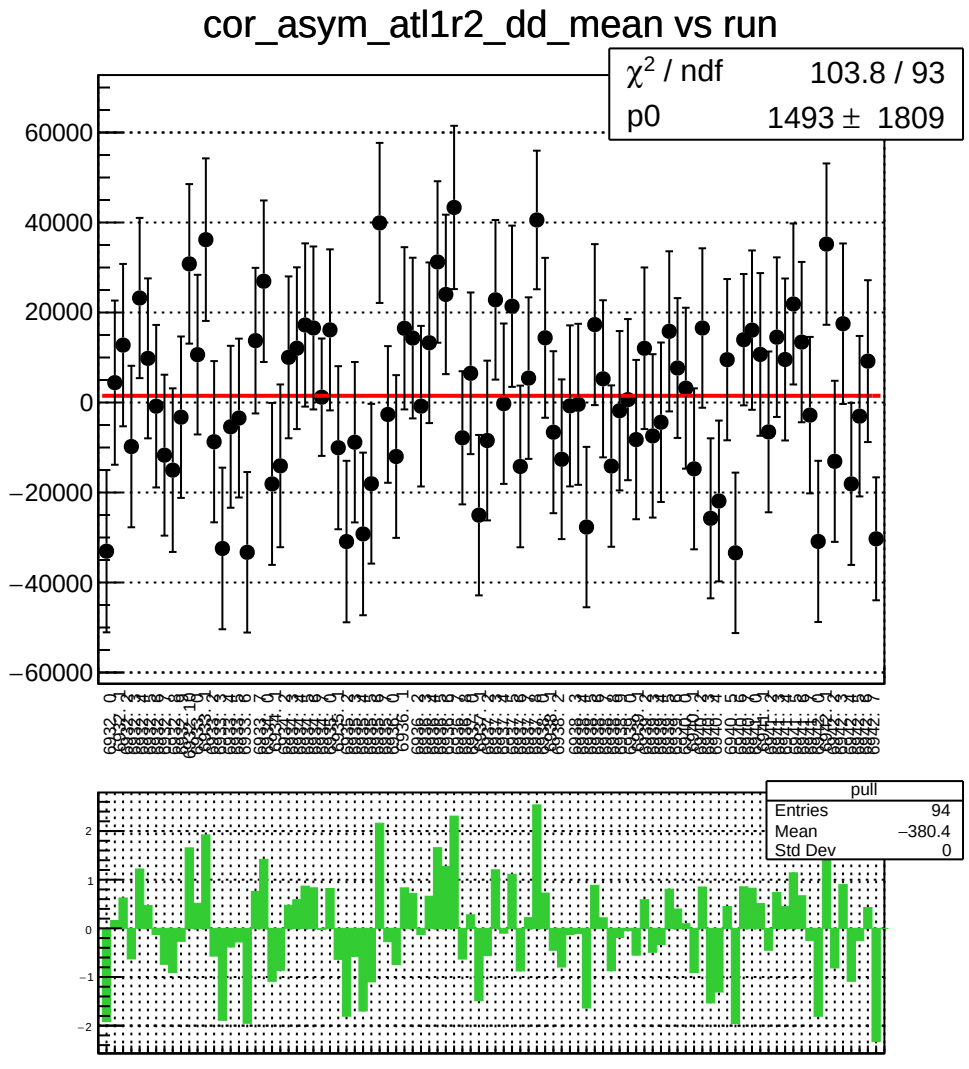

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 103.8 / 93
p0 1493 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −380.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001476
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

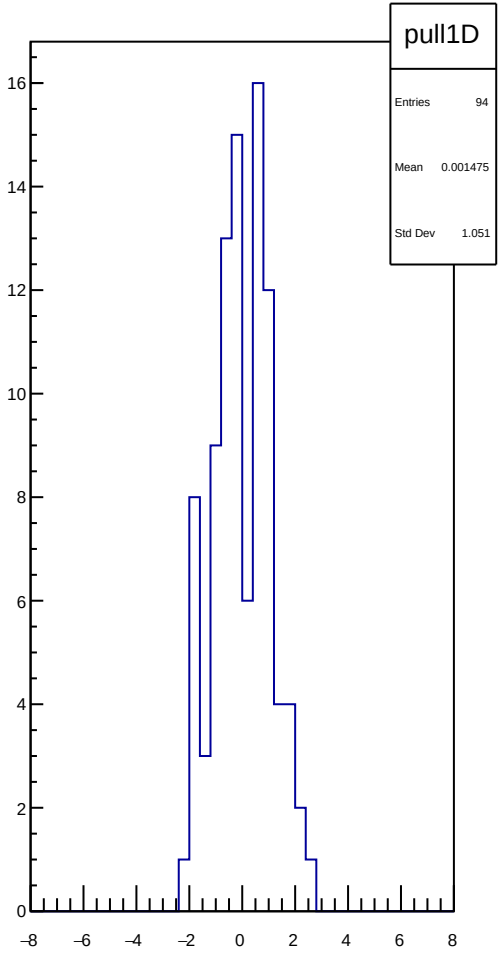

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 93.33 / 93
p0 1699 ± 1.279
1740
1720
1700
1680
1660
1640

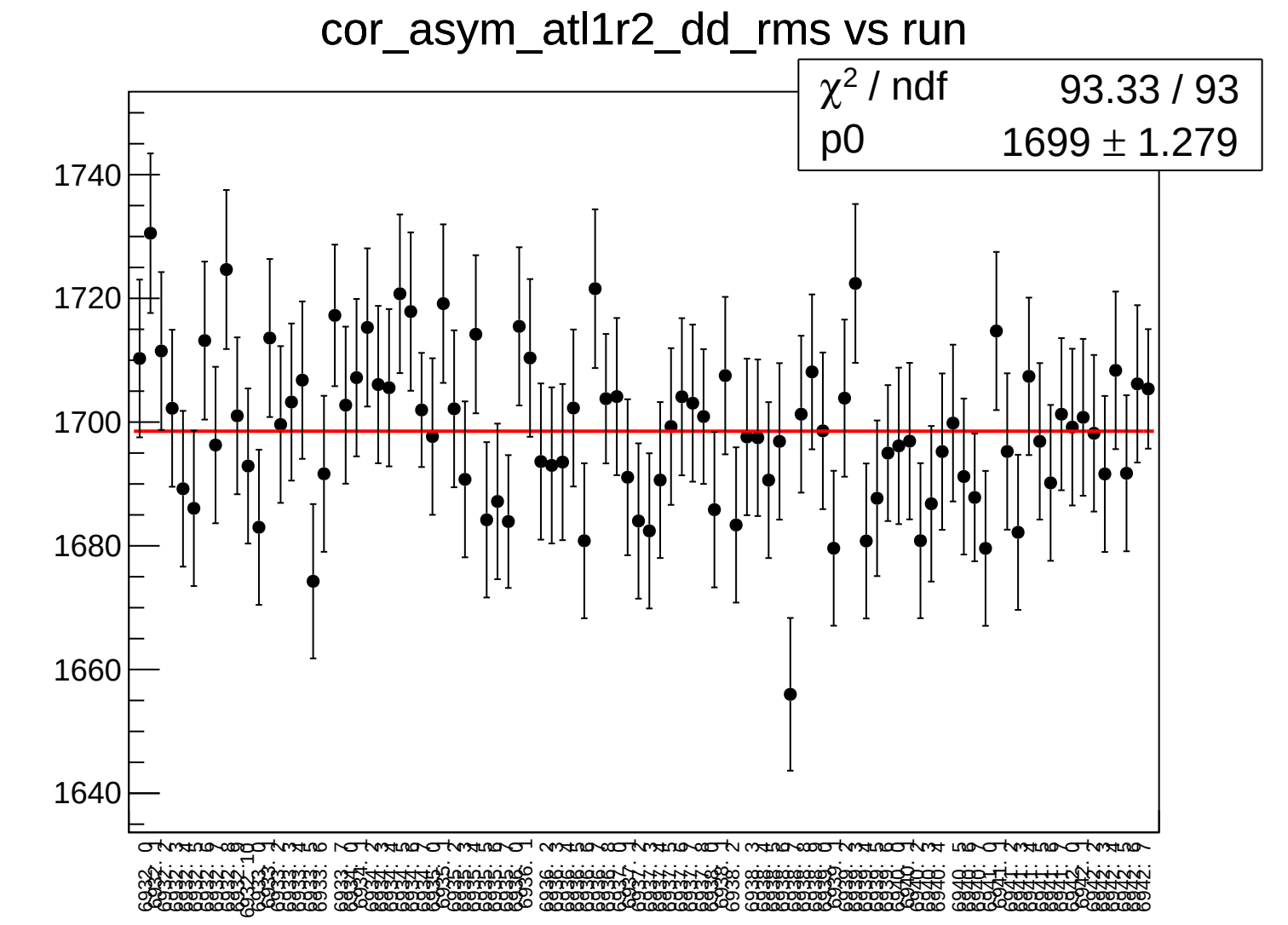

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.33 / 93
p0 −5686 ± 4995
pull
Entries 94
Mean 469.5
Std Dev 0

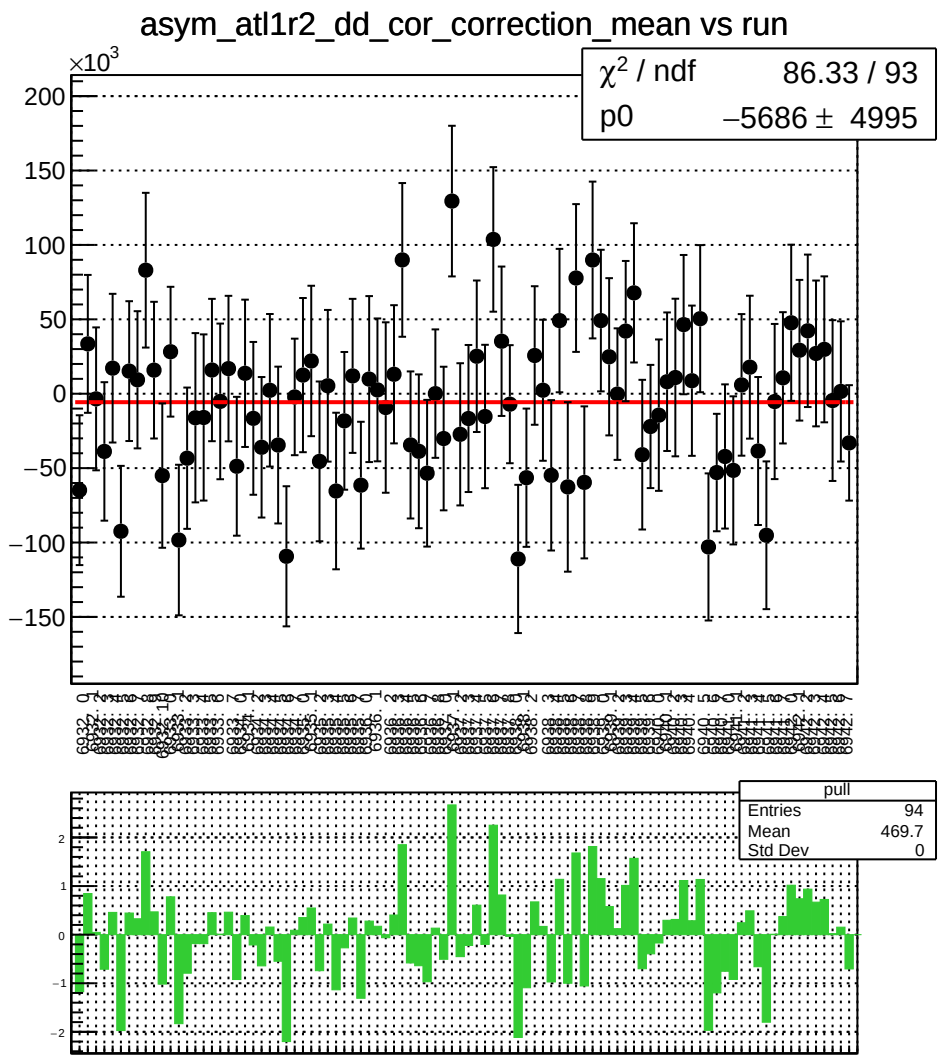

pull1D
Entries 94
Mean 0.007287
Std Dev 0.9583

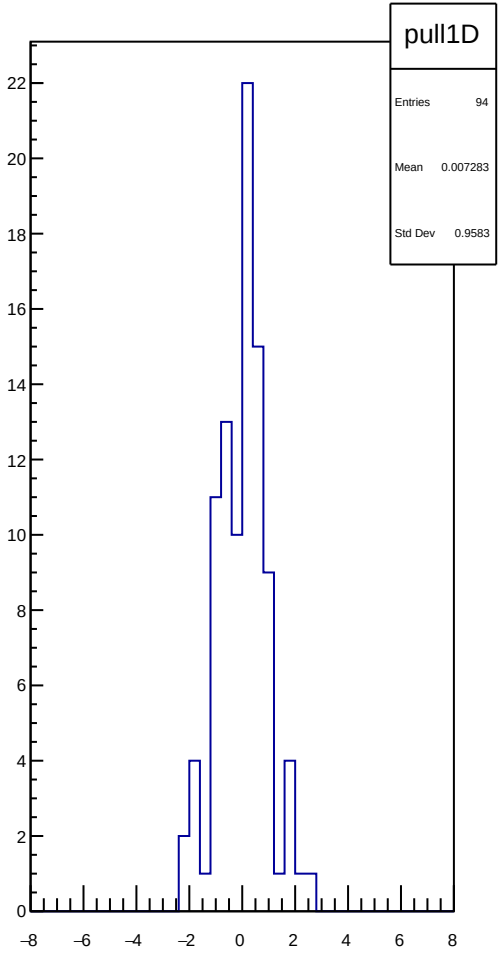

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 5757 / 93
p0 4683 ± 3.532
5600
5400
5200
5000
4800
4600
4400
4200
4000

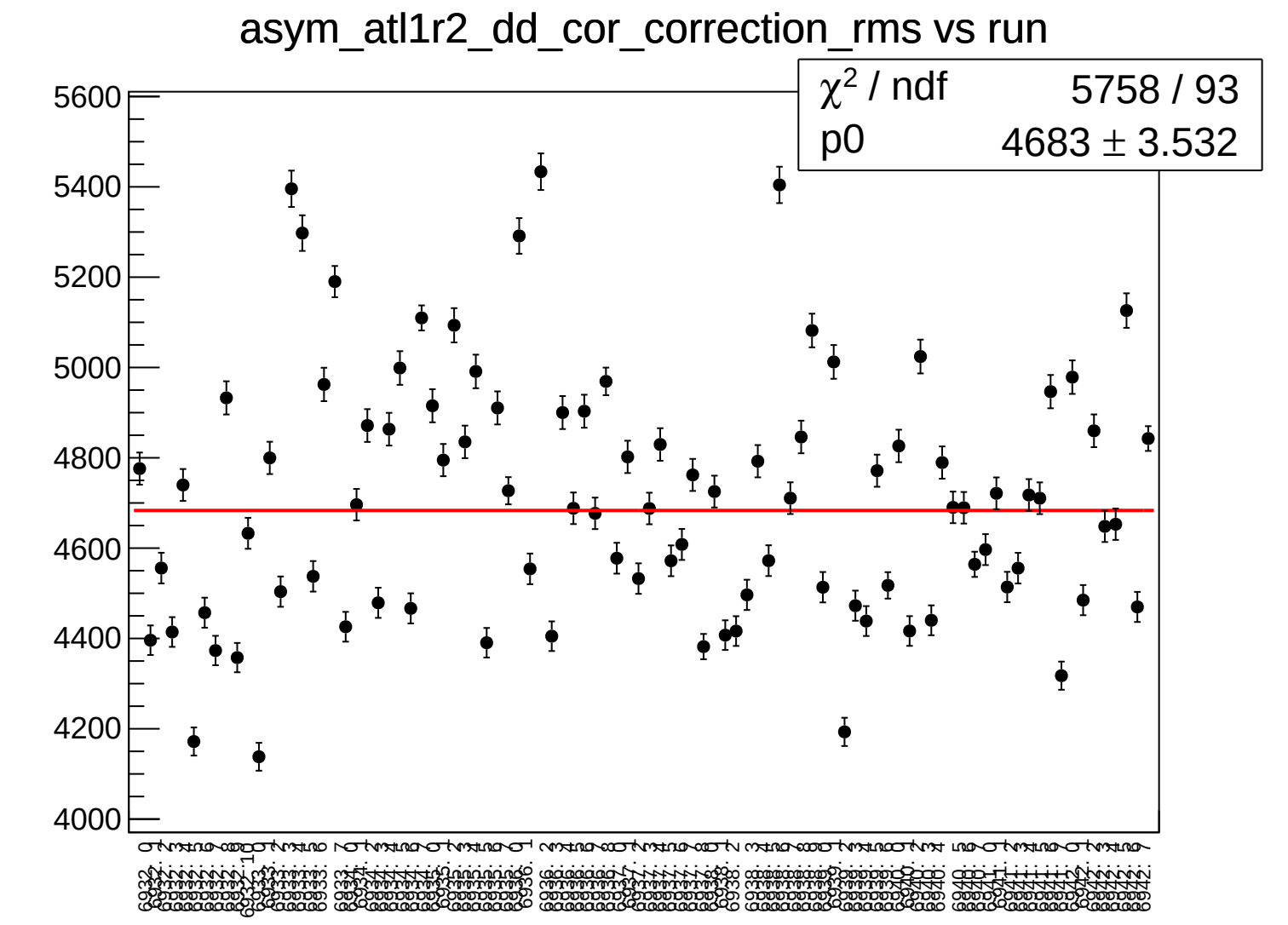

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.8 / 93
p0 1493 ± 1809
pull
Entries 94
Mean −380.4
Std Dev 0

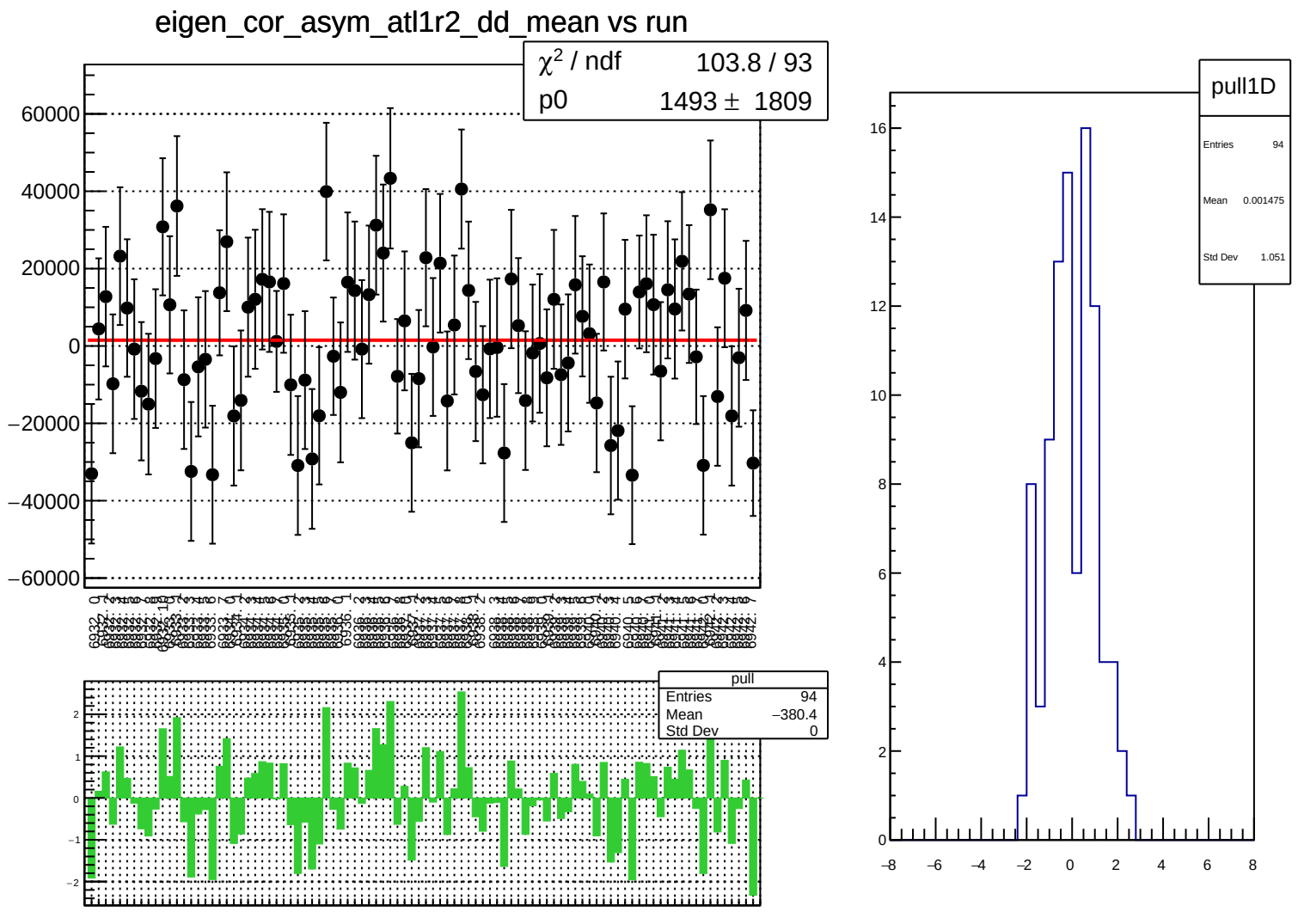

pull1D
Entries 94
Mean 0.001475
Std Dev 1.051

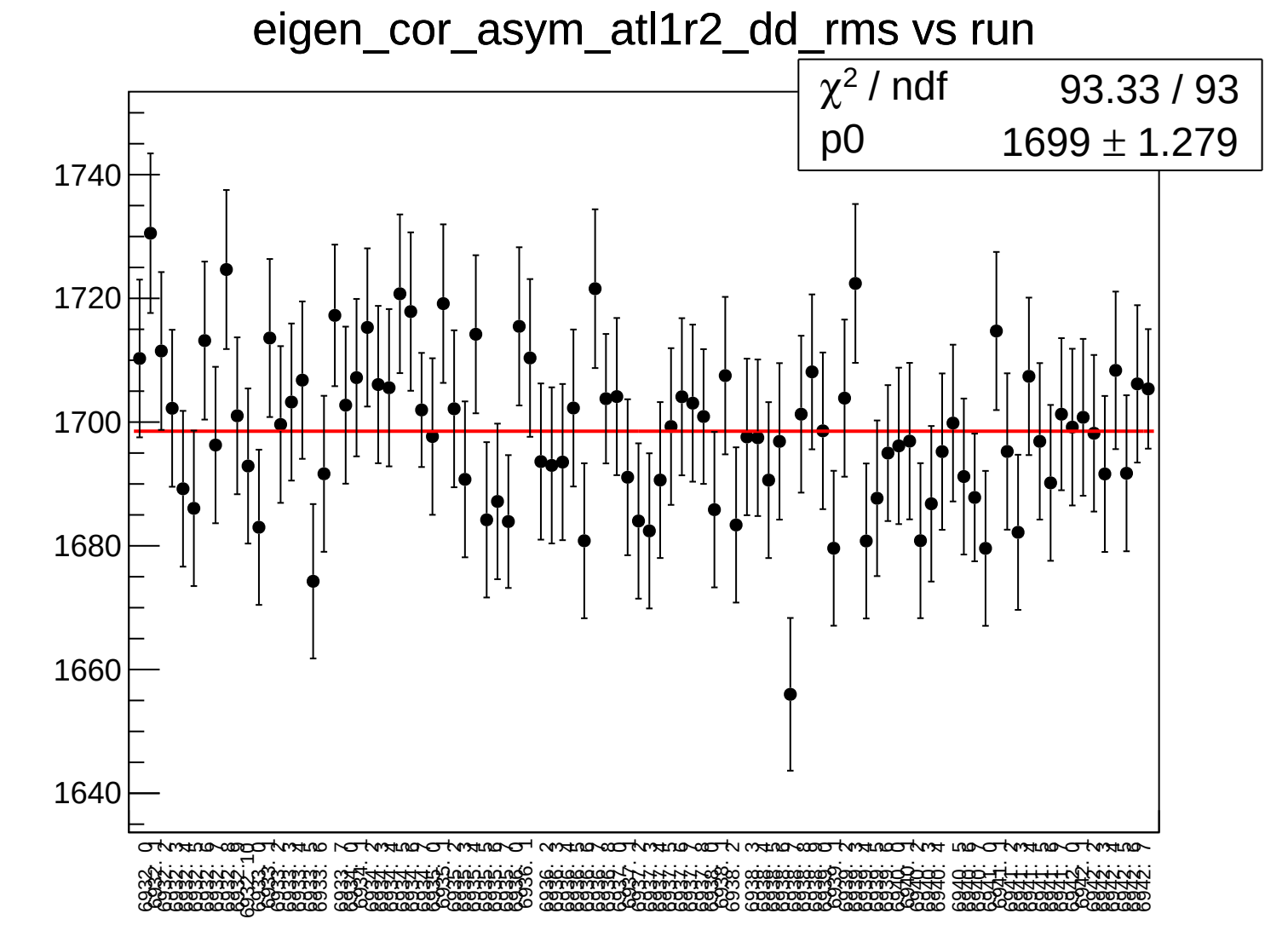

cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 93.33 / 93
p0 1699 ± 1.279
1740
1720
1700
1680
1660
1640

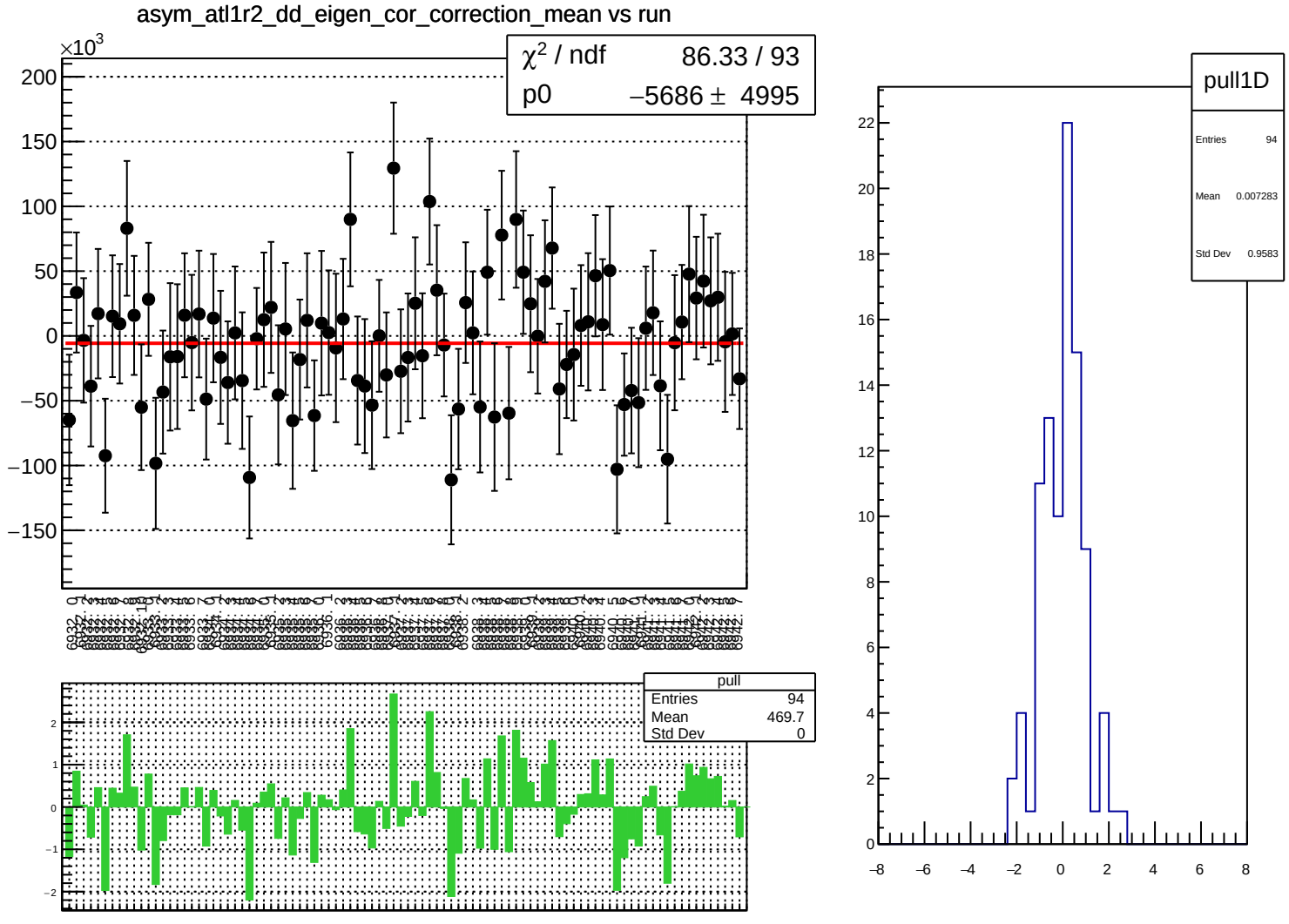

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.33 / 93
p0 −5686 ± 4995
pull
Entries 94
Mean 469.7
Std Dev 0

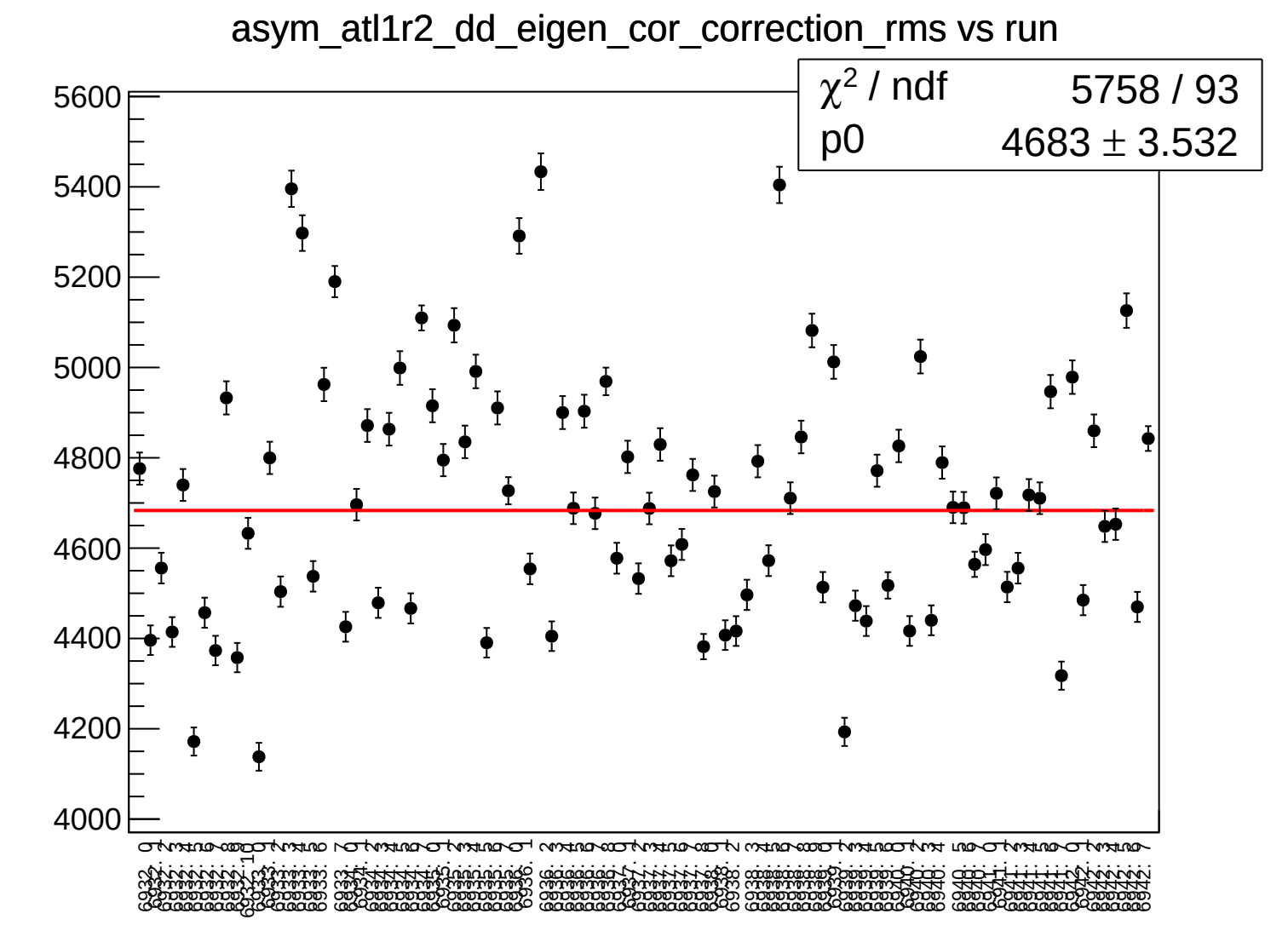

pull1D
Entries 94
Mean 0.007283
Std Dev 0.9583

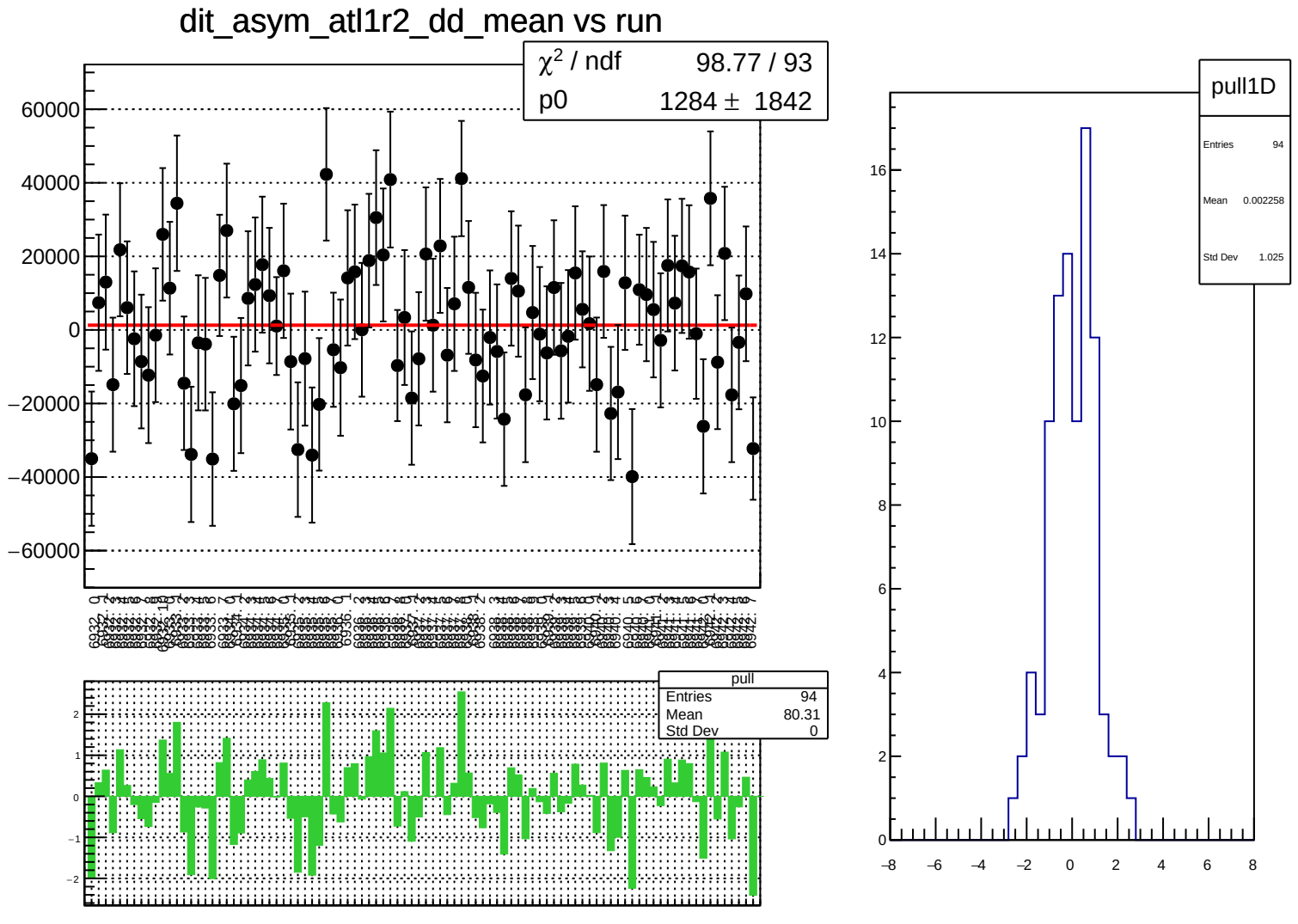

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 5758 / 93
p0 4683 ± 3.532
5600
5400
5200
5000
4800
4600
4400
4200
4000

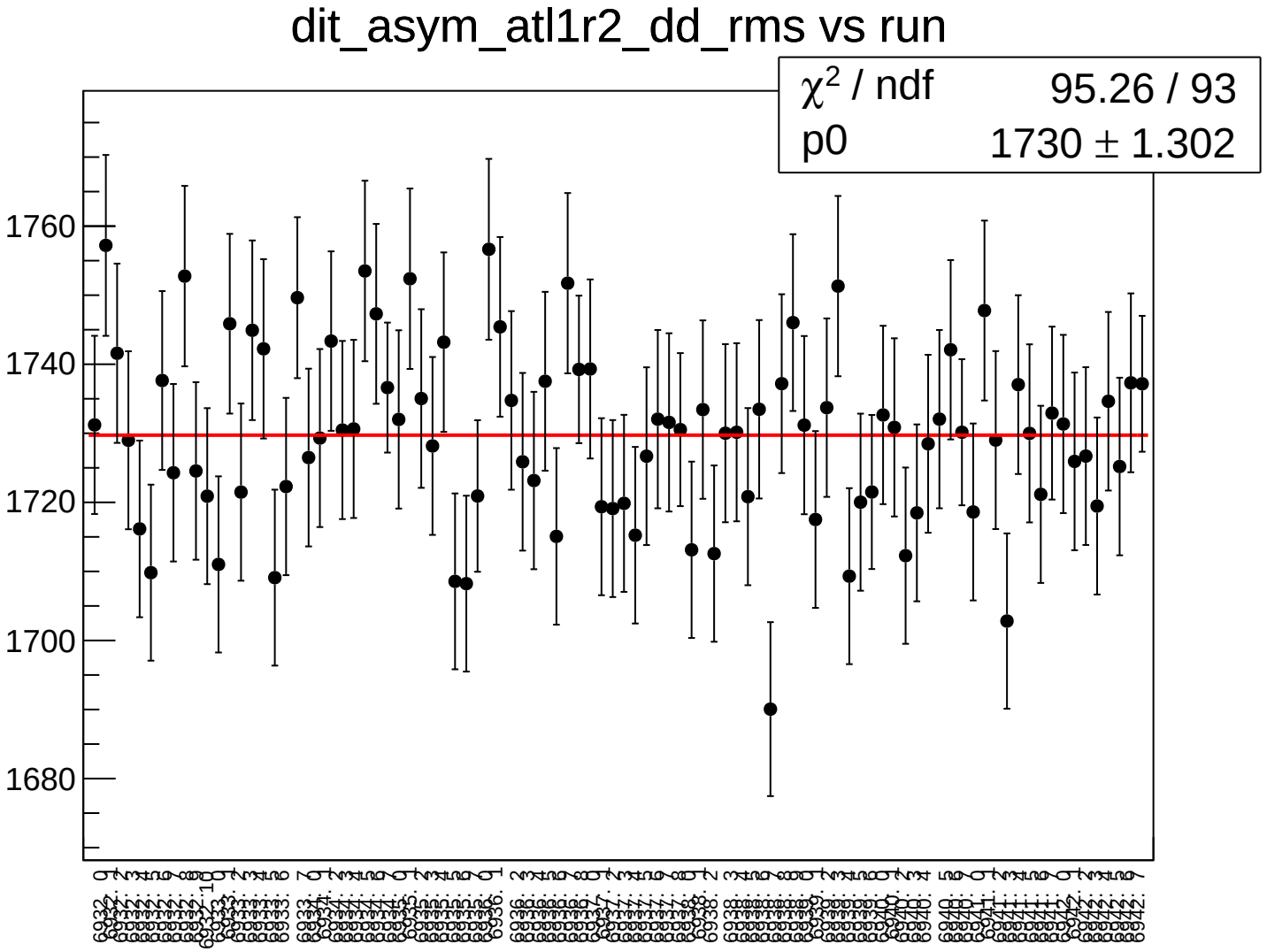

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.8 / 93
p0 1493 ± 1809
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −380.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001475
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

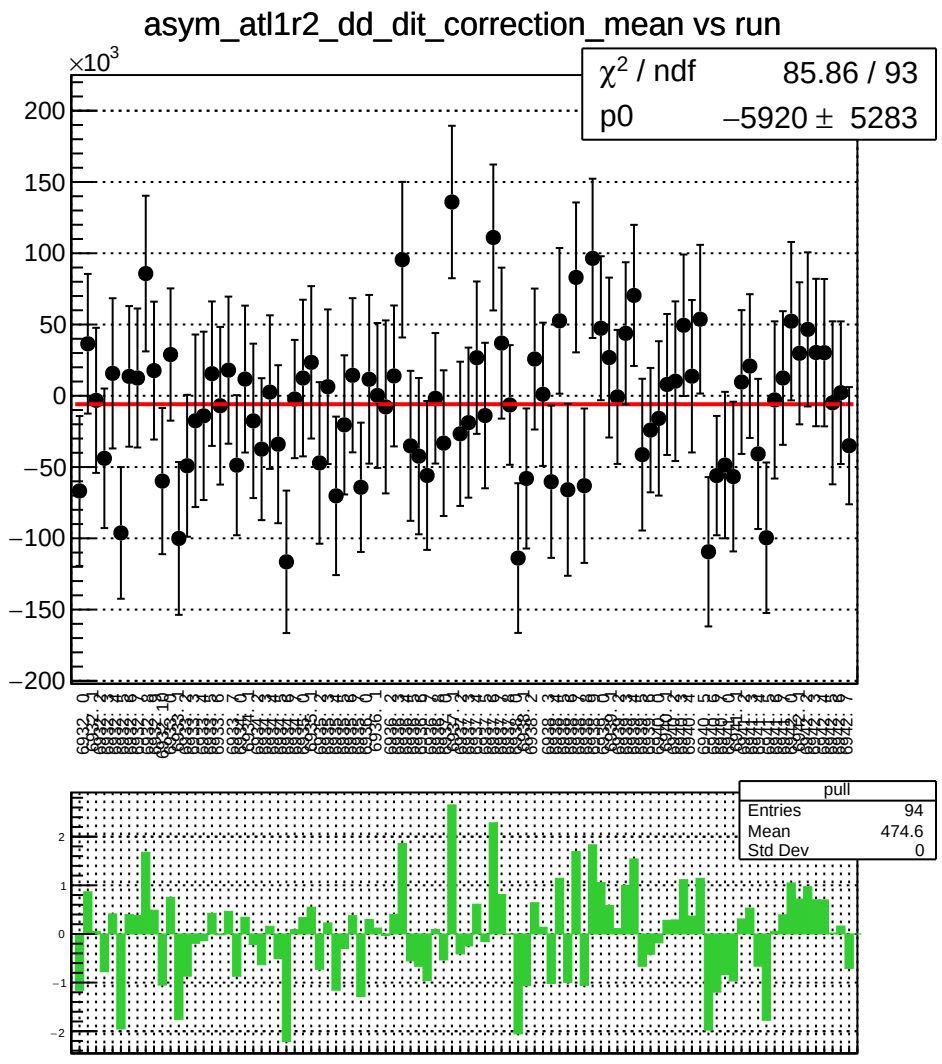

eigen_cor_asym_atl1r2_dd_rms vs run
χ^2 / ndf 93.33 / 93
p0 1699 ± 1.279
1740
1720
1700
1680
1660
1640

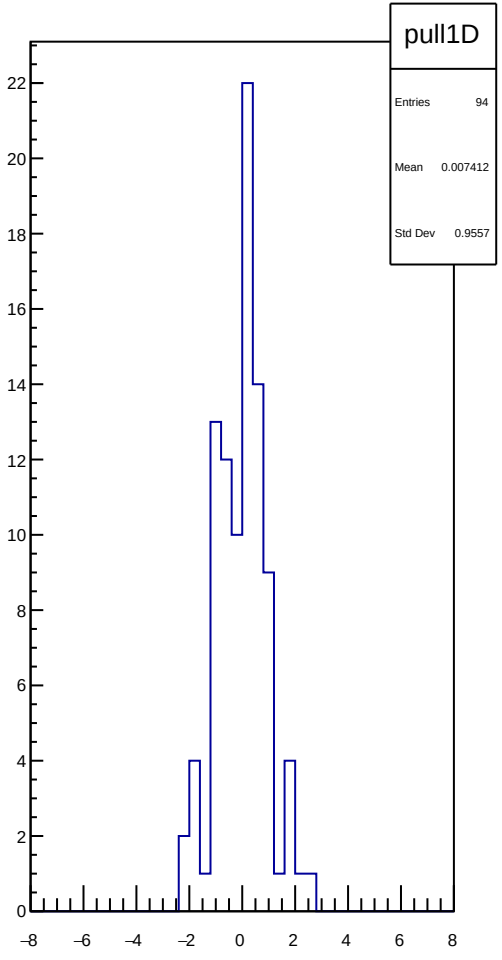

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.33 / 93
p0 −5686 ± 4995
pull
Entries 94
Mean 469.7
Std Dev 0
pull1D
Entries 94
Mean 0.007283
Std Dev 0.9583

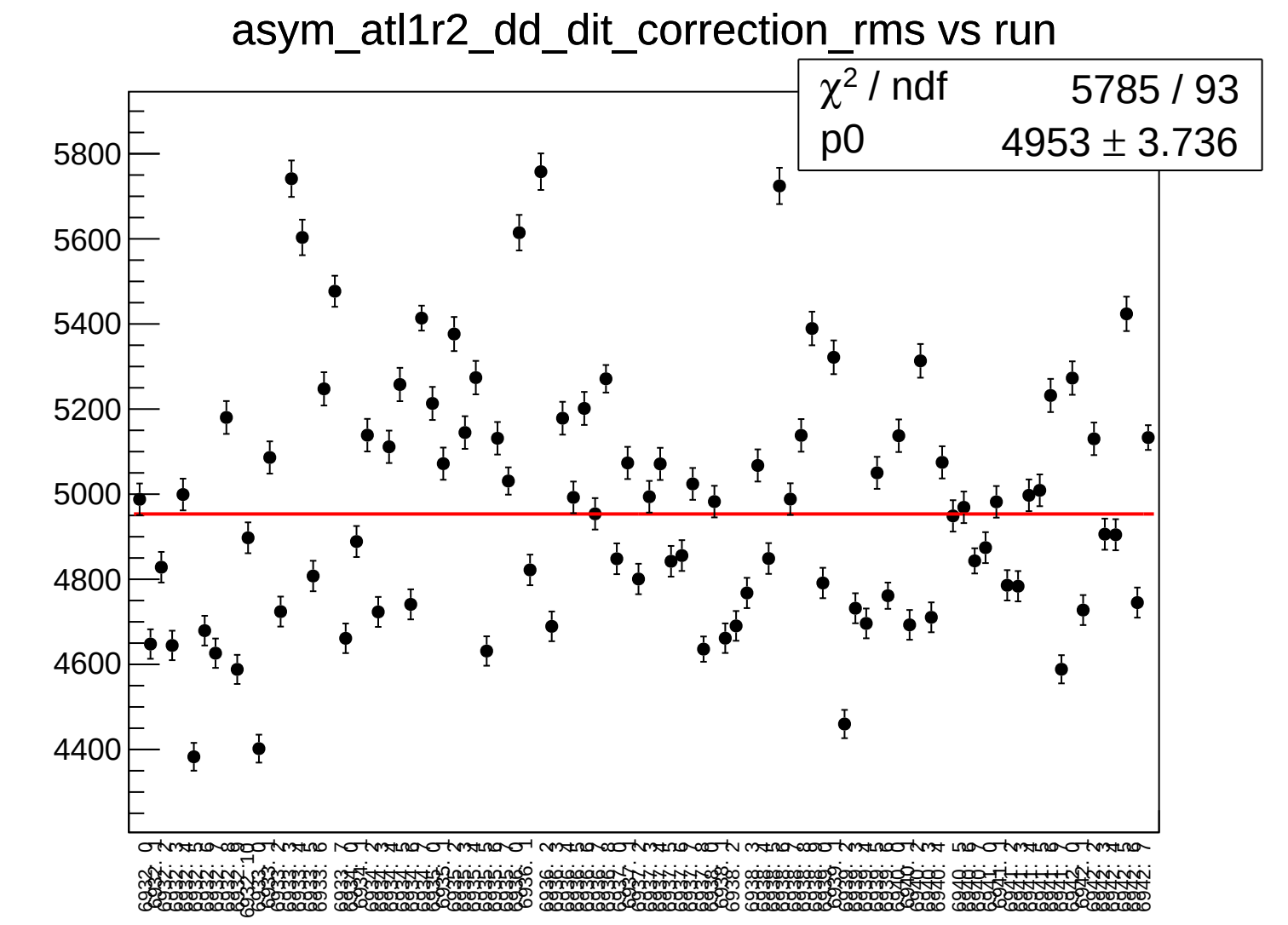

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5758 / 93
p0 4683 ± 3.532
5600
5400
5200
5000
4800
4600
4400
4200
4000

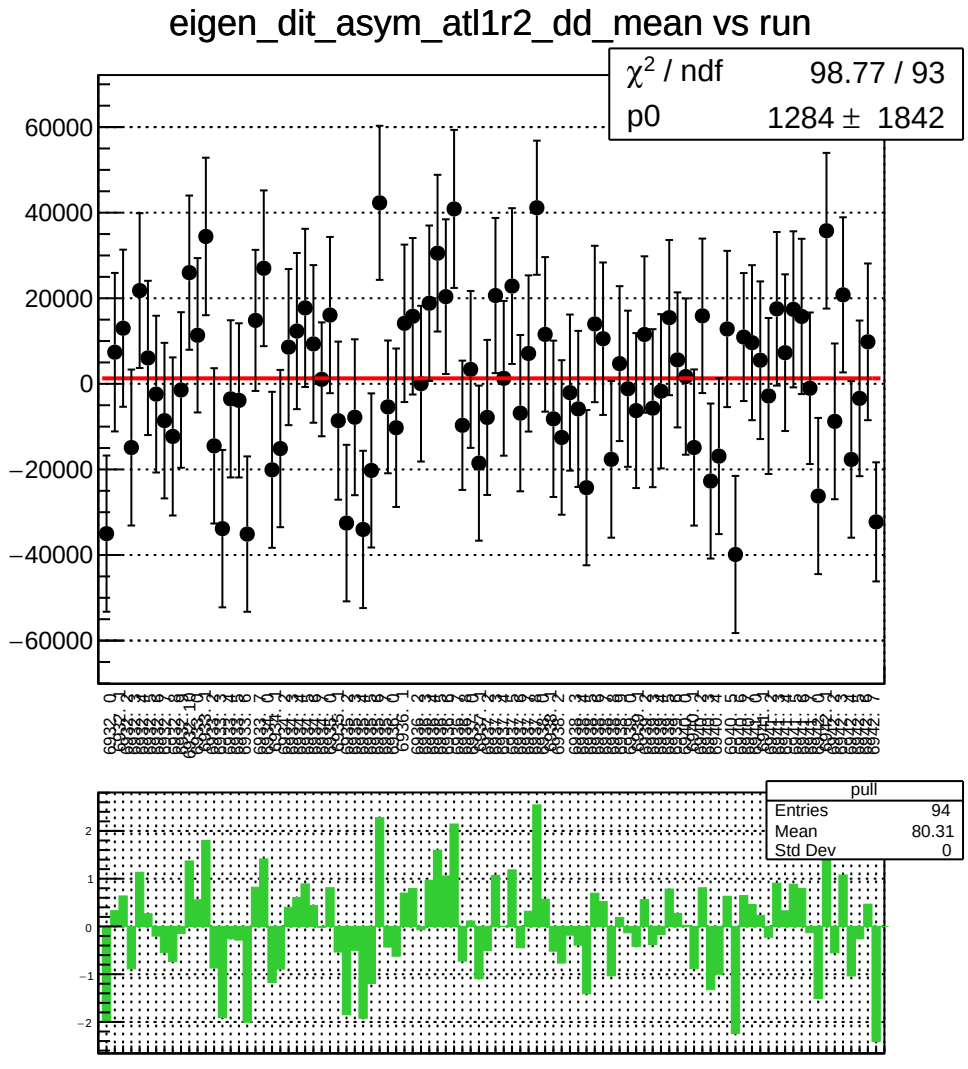

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 98.77 / 93
p0 1284 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 80.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002258
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

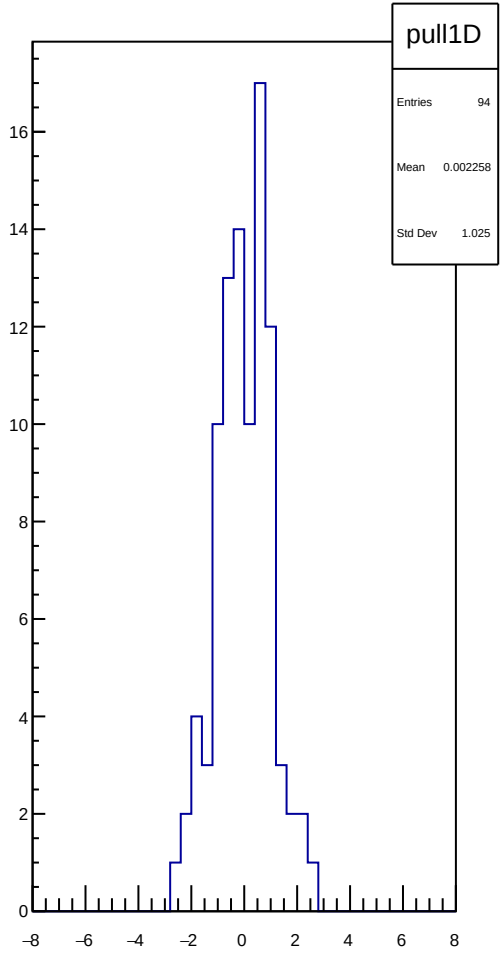

dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 95.26 / 93
p0 1730 ± 1.302
1760
1740
1720
1700
1680

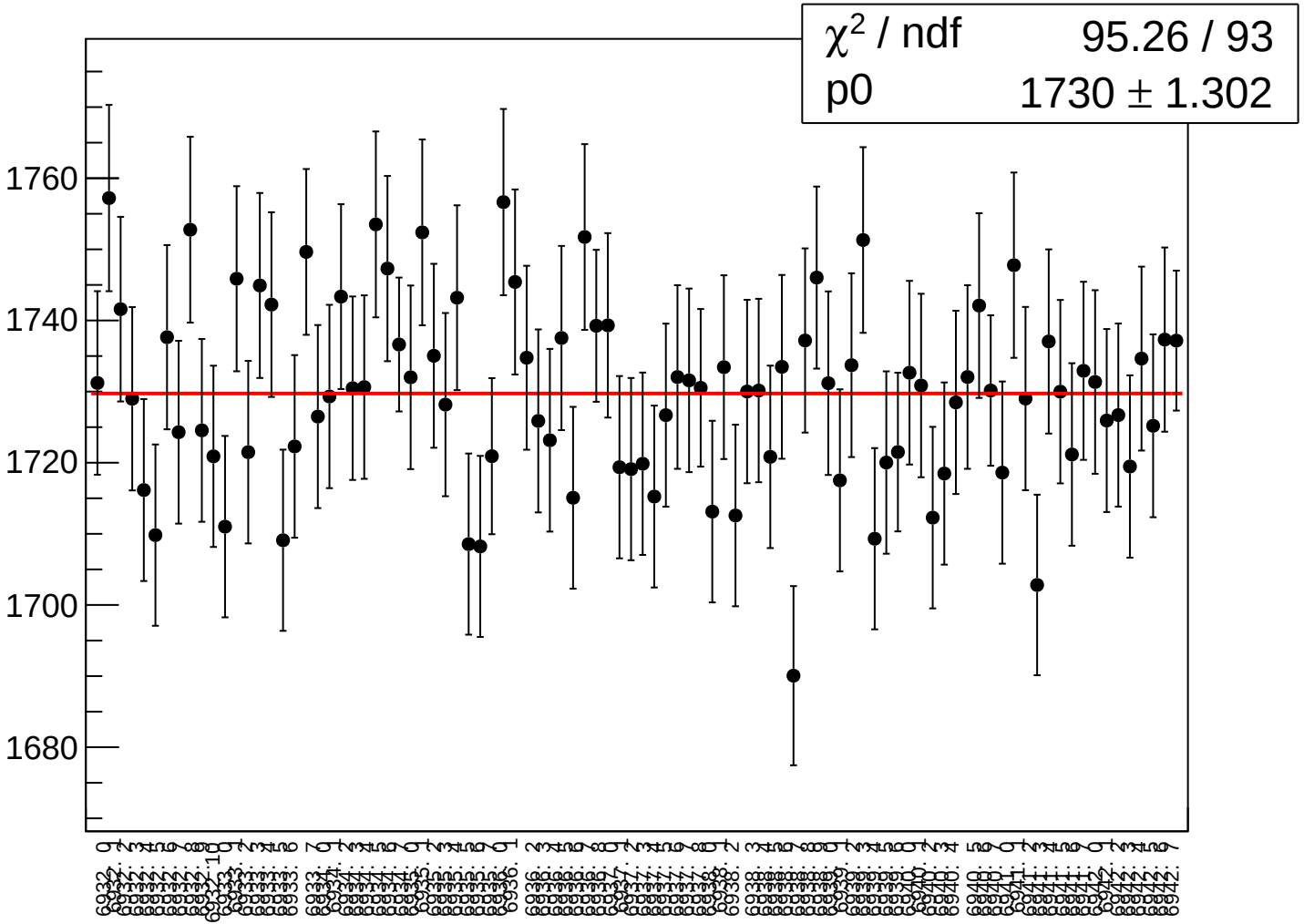

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.86 / 93
p0 −5920 ± 5283
pull
Entries 94
Mean 474.6
Std Dev 0

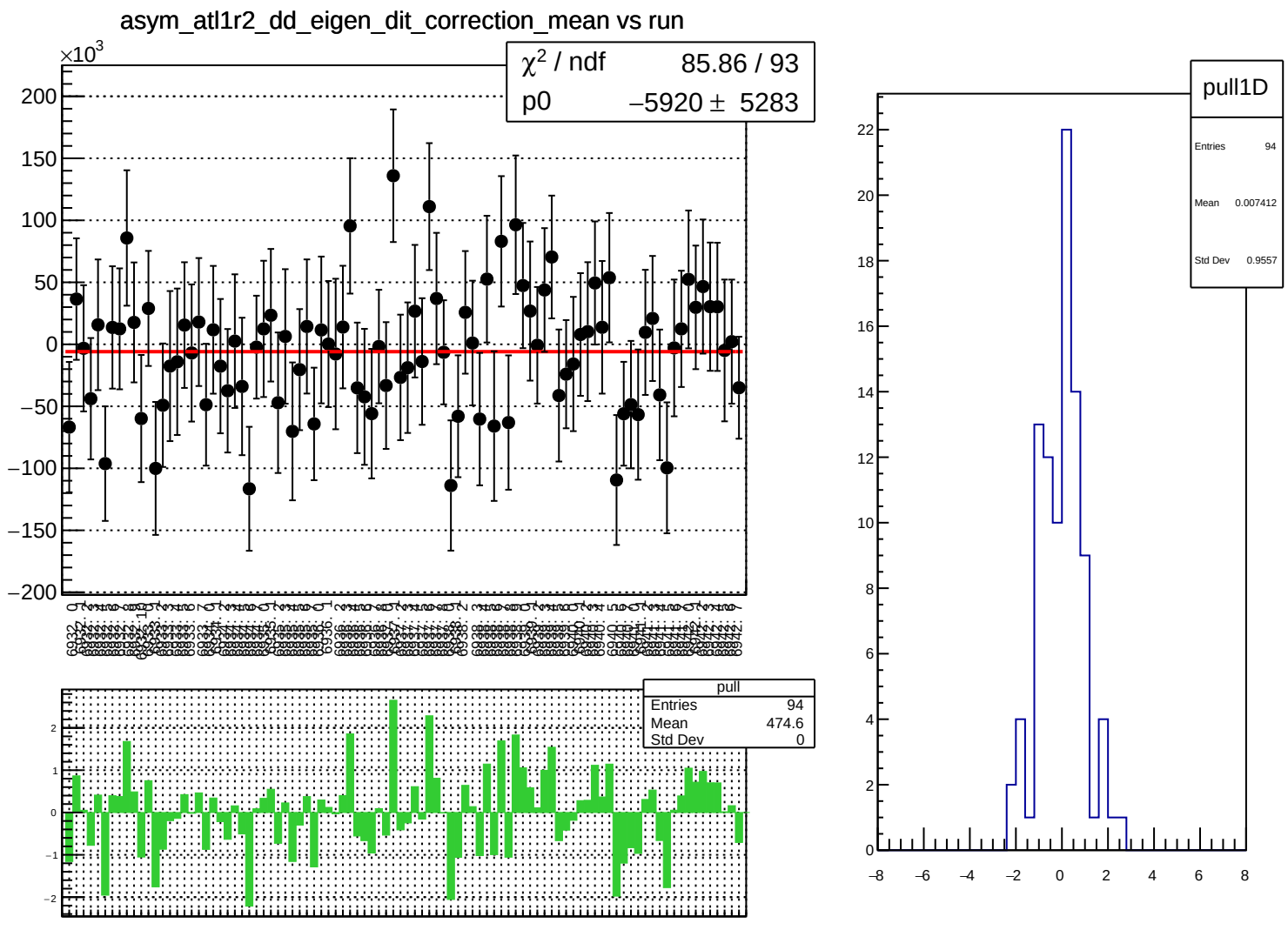

pull1D
Entries 94
Mean 0.007412
Std Dev 0.9557

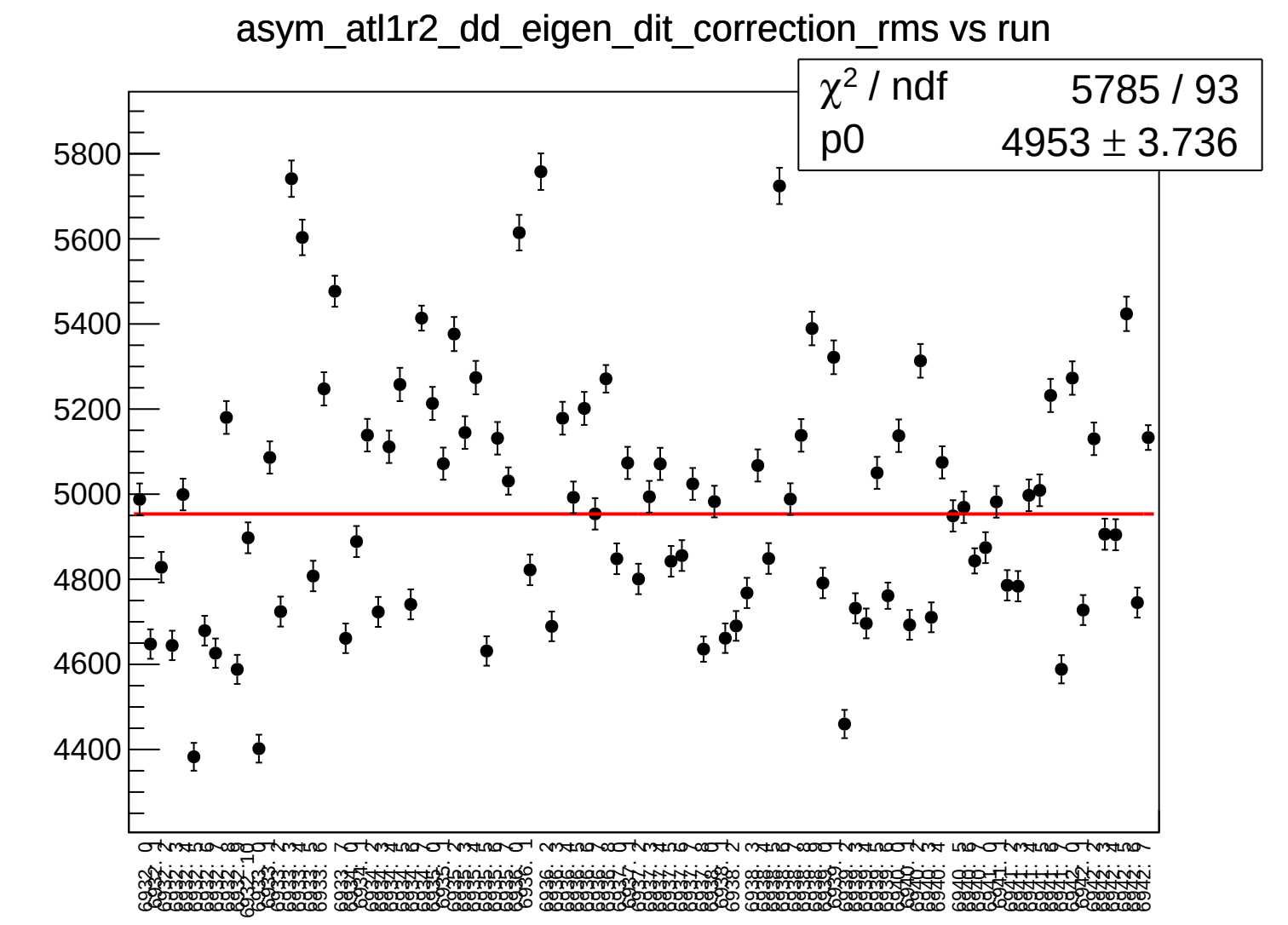

asym_atl1r2_dd_dit_correction_rms vs run
χ^2 / ndf 5785 / 93
p0 4953 ± 3.736
5800
5600
5400
5200
5000
4800
4600
4400

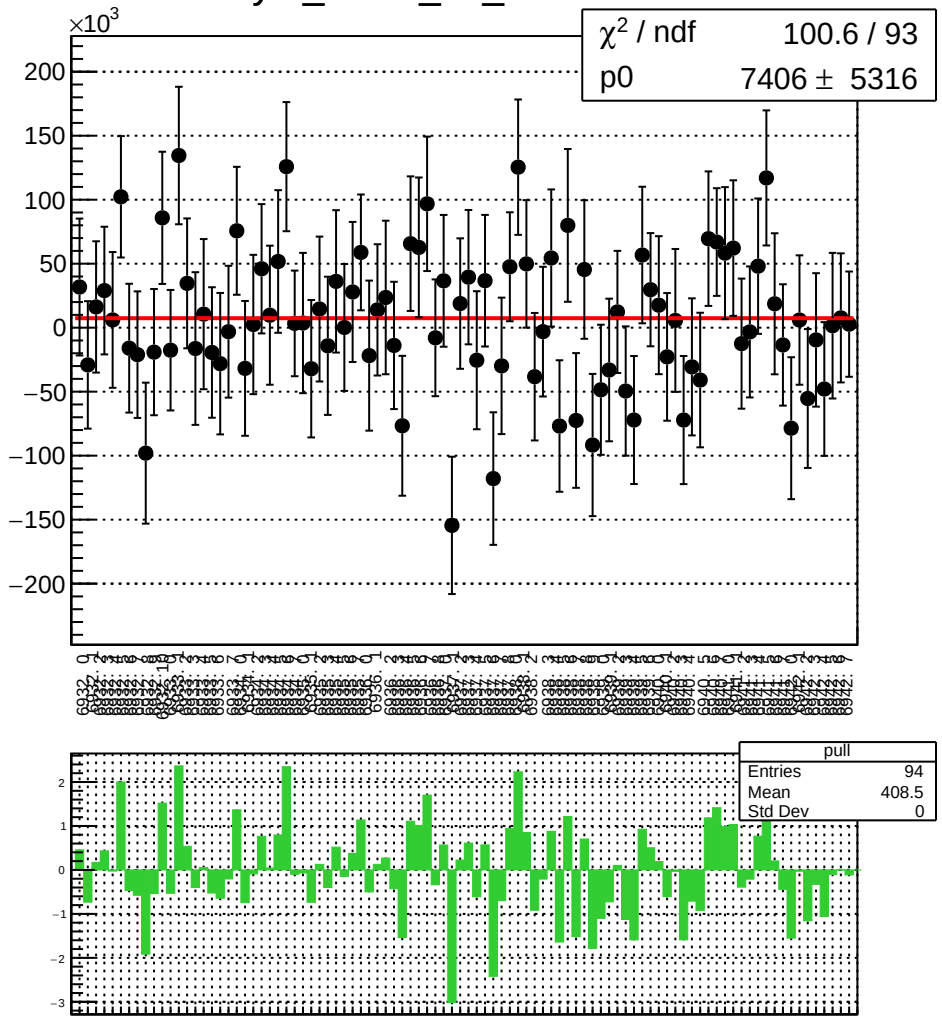

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 98.77 / 93
p0 1284 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 80.31
Std Dev 0
2
1
0
−1
−2

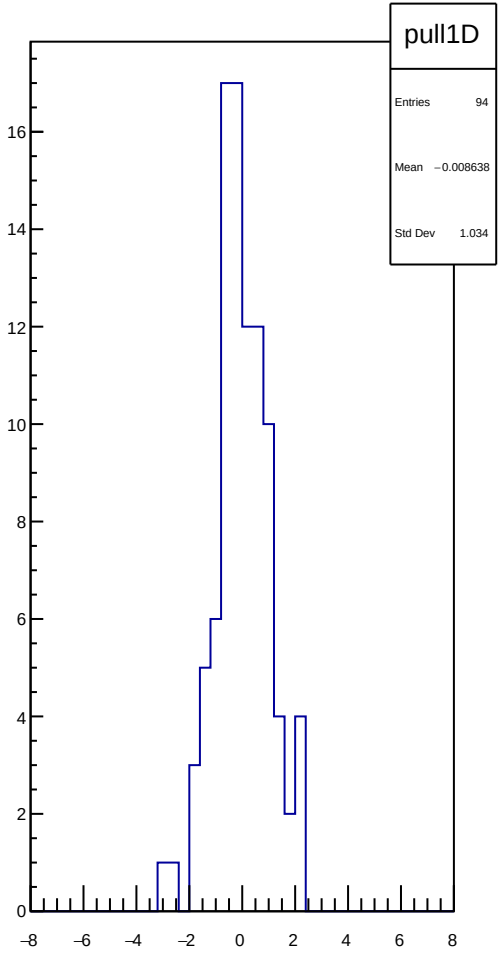

pull1D
Entries 94
Mean 0.002258
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

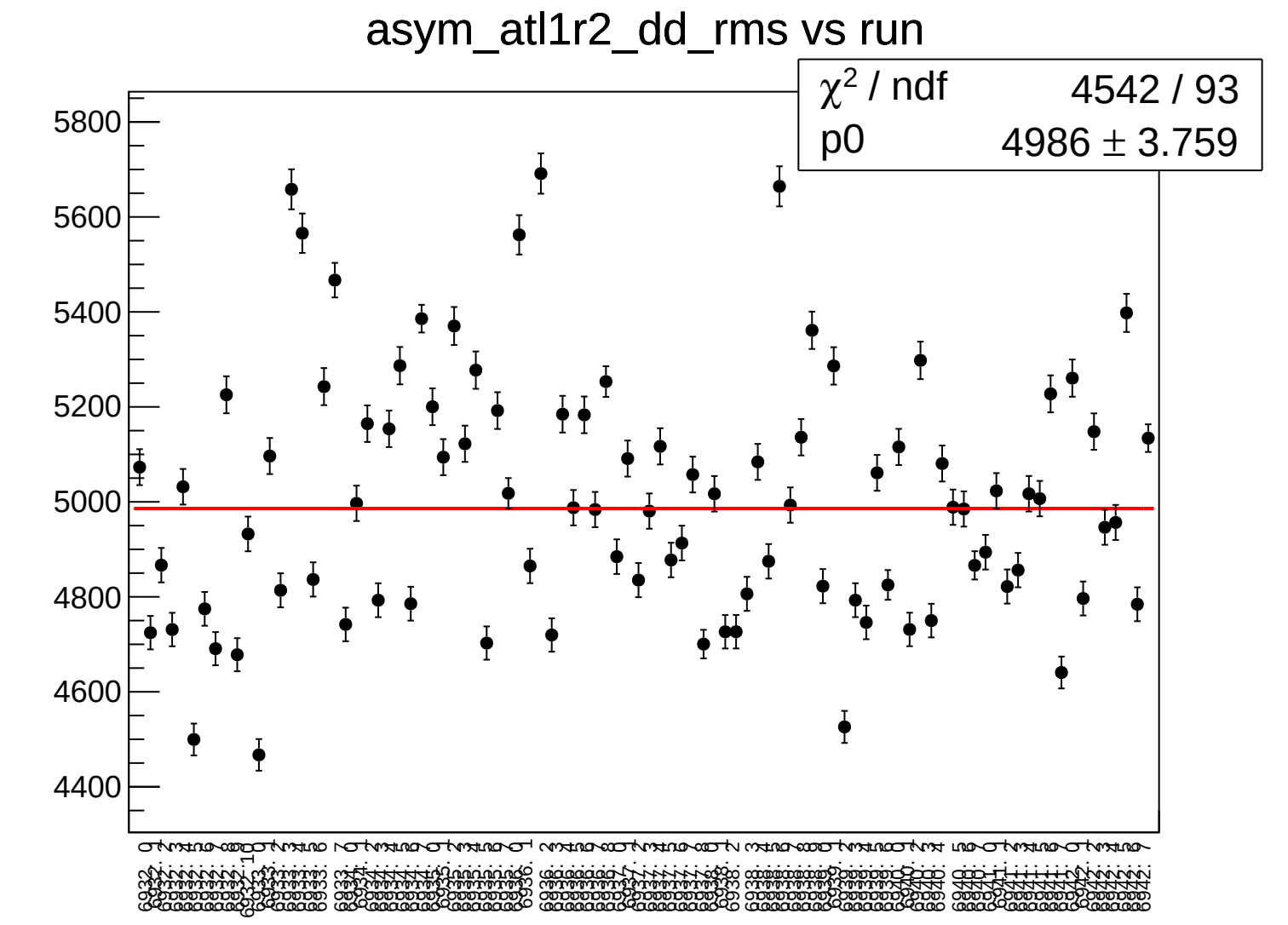

eigen_dit_asym_atl1r2_dd_rms vs run
χ^2 / ndf 95.26 / 93
p0 1730 ± 1.302
1760
1740
1720
1700
1680

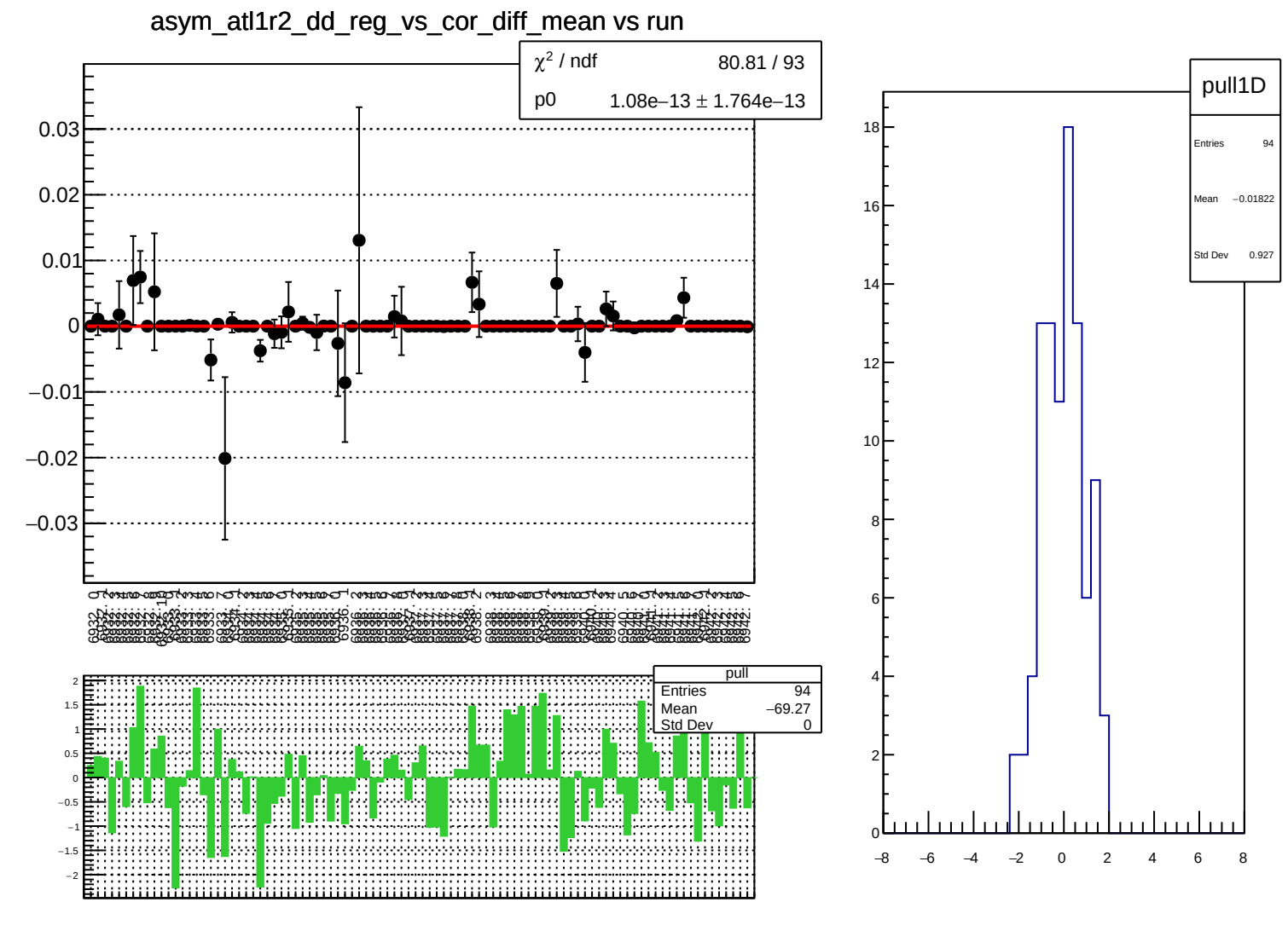

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.86 / 93
p0 −5920 ± 5283
pull
Entries 94
Mean 474.6
Std Dev 0
pull1D
Entries 94
Mean 0.007412
Std Dev 0.9557

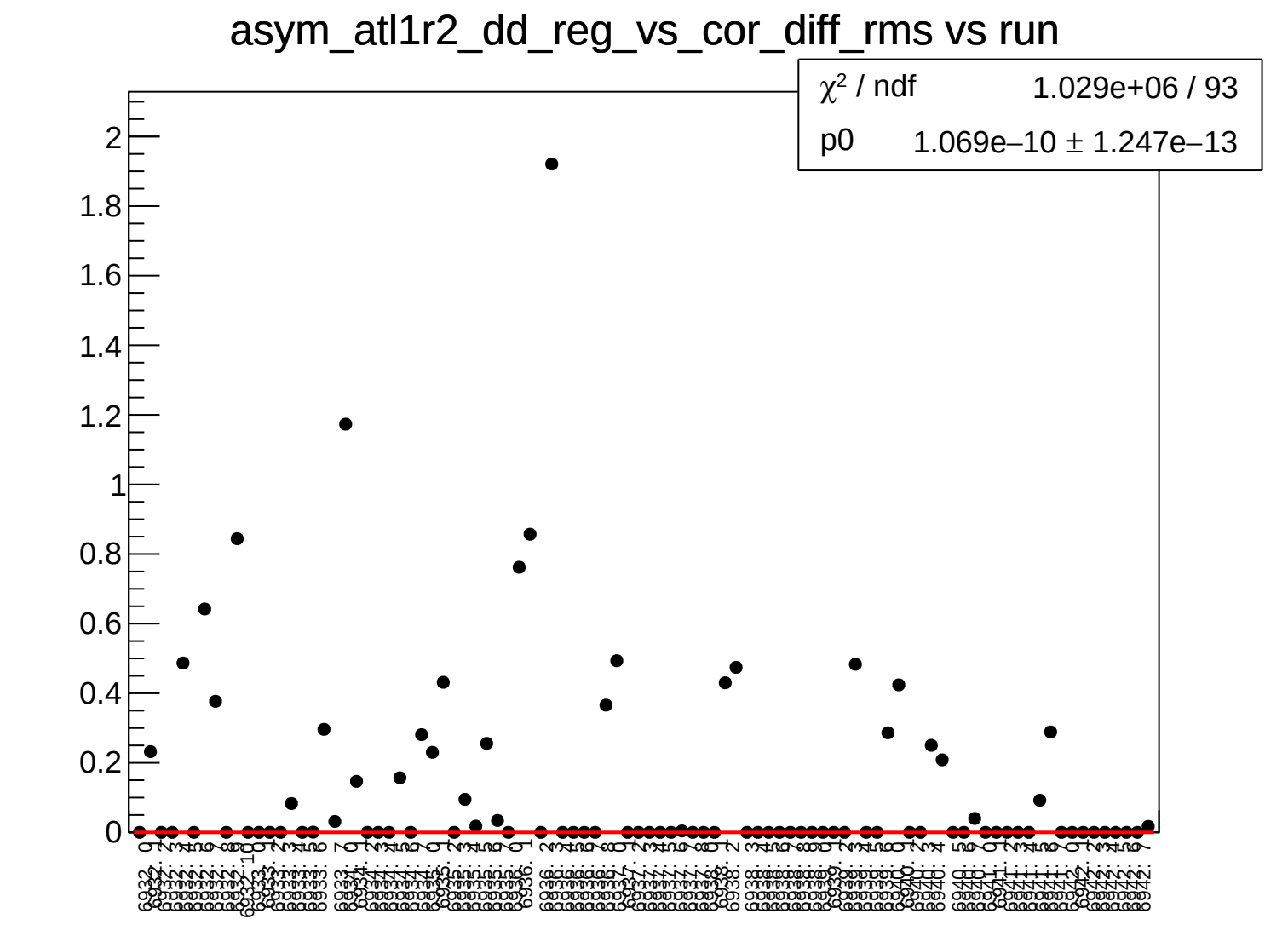

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5785 / 93
p0 4953 ± 3.736
5800
5600
5400
5200
5000
4800
4600
4400

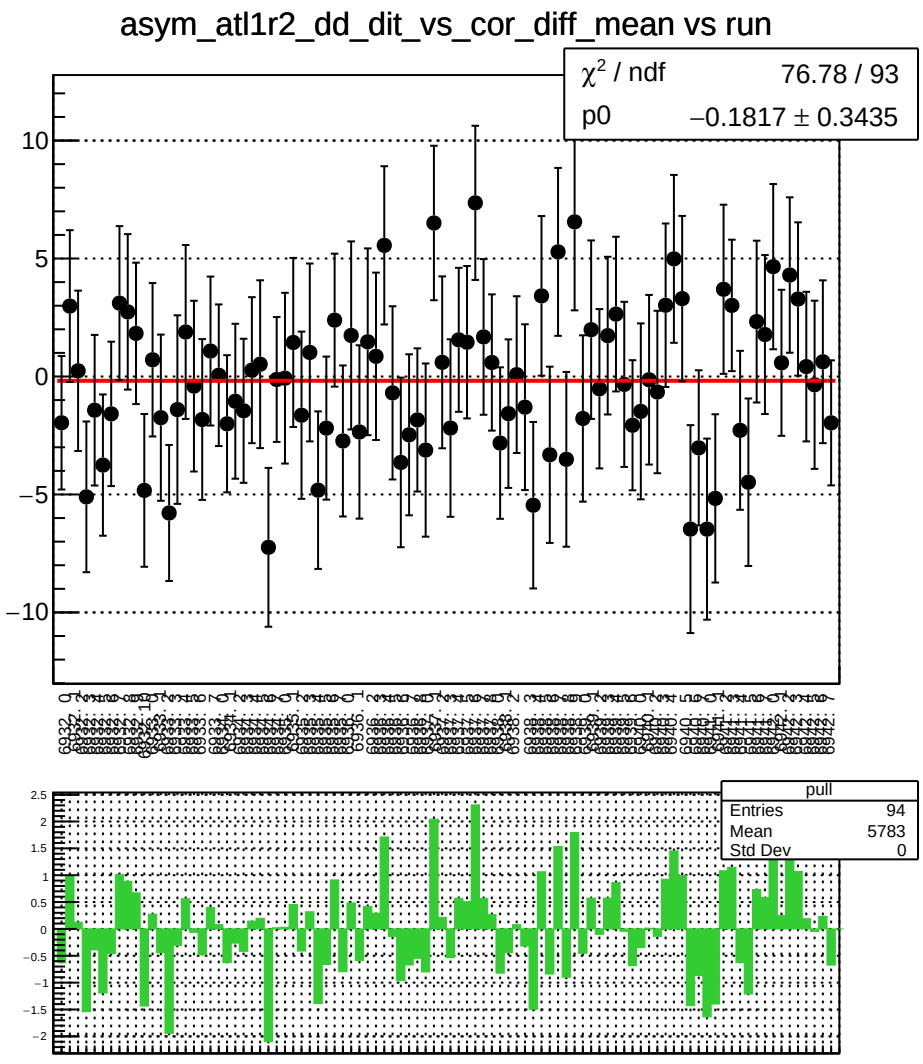

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 100.6 / 93
p0 7406 ± 5316
pull
Entries 94
Mean 408.5
Std Dev 0

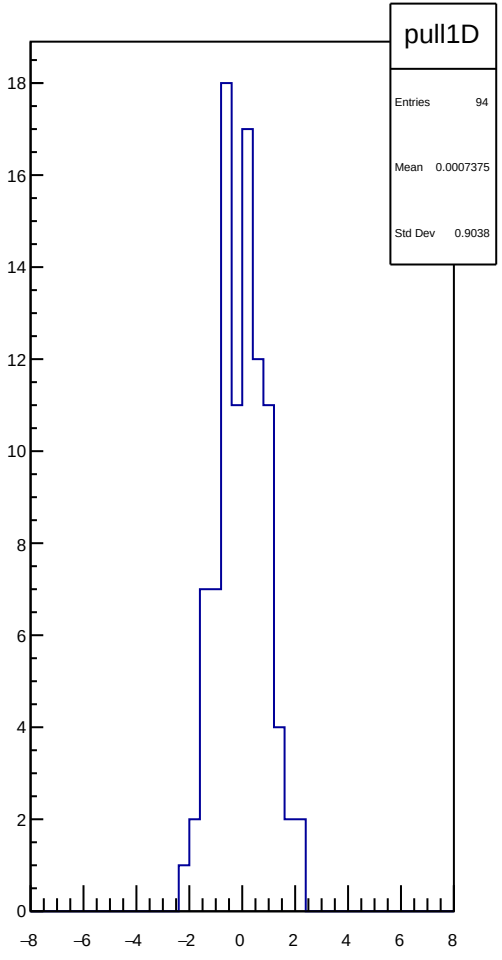

pull1D
Entries 94
Mean −0.008638
Std Dev 1.034

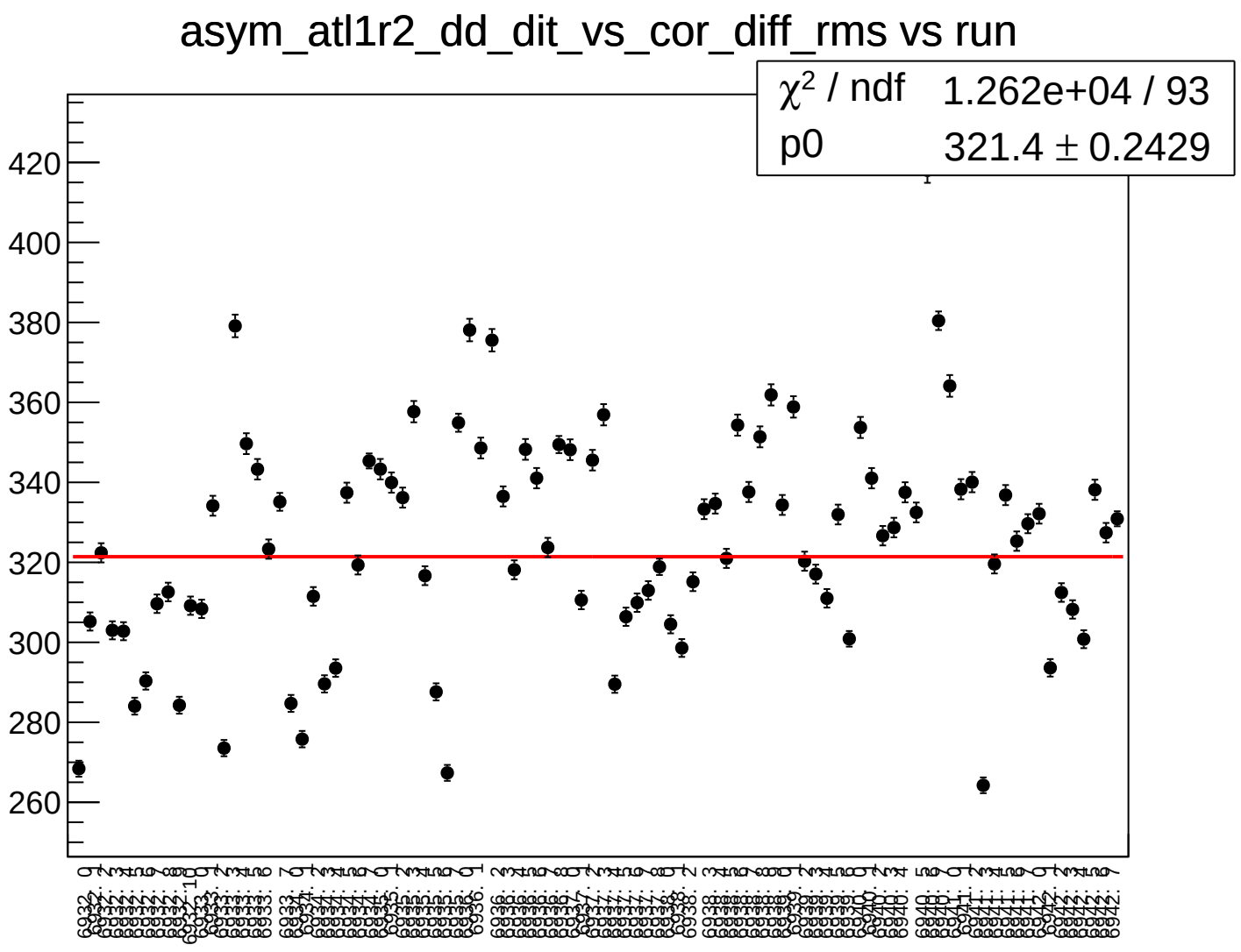

asym_atl1r2_dd_rms vs run
χ² / ndf 4542 / 93
p0 4986 ± 3.759
5800
5600
5400
5200
5000
4800
4600
4400

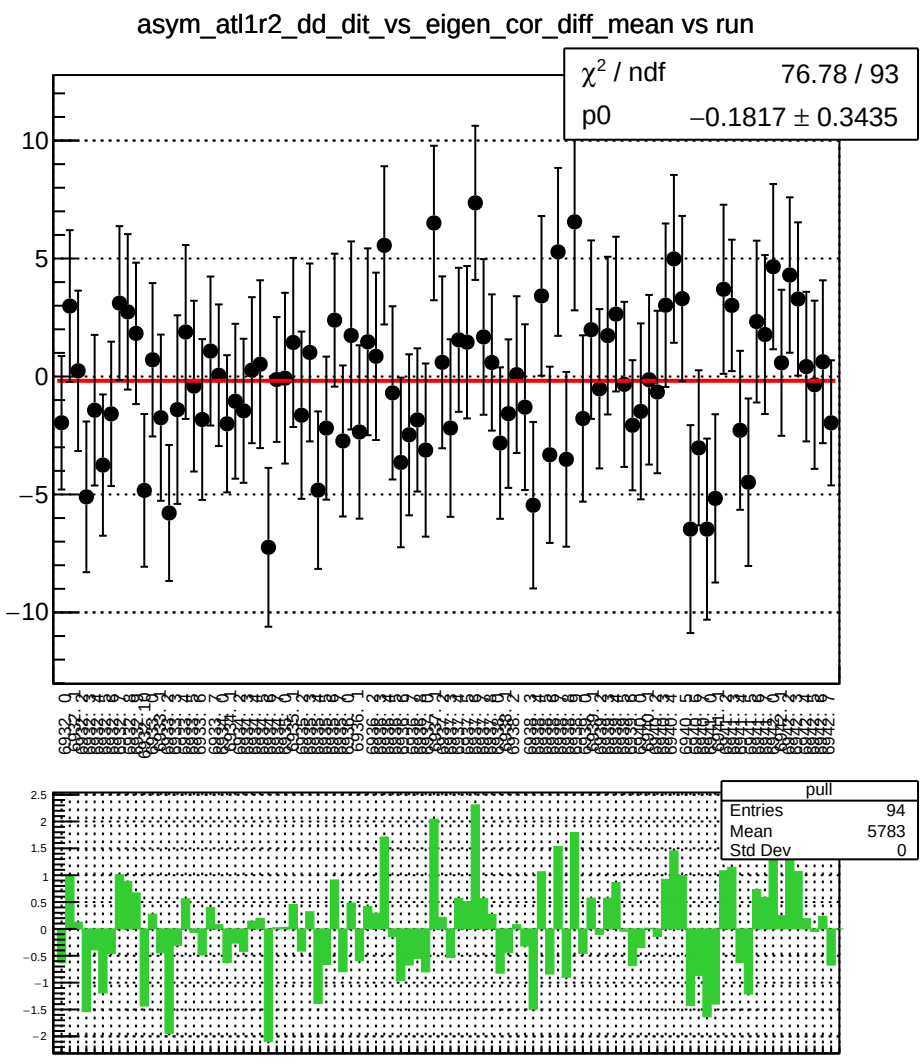

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.81 / 93
p0 1.08e−13 ± 1.764e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean −69.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.01822
Std Dev 0.927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

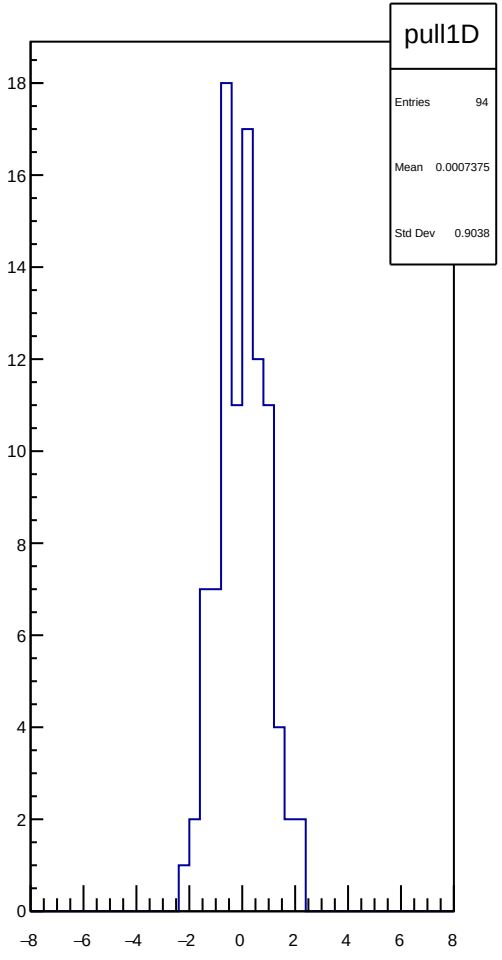

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 93
p0 1.069e−10 ± 1.247e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

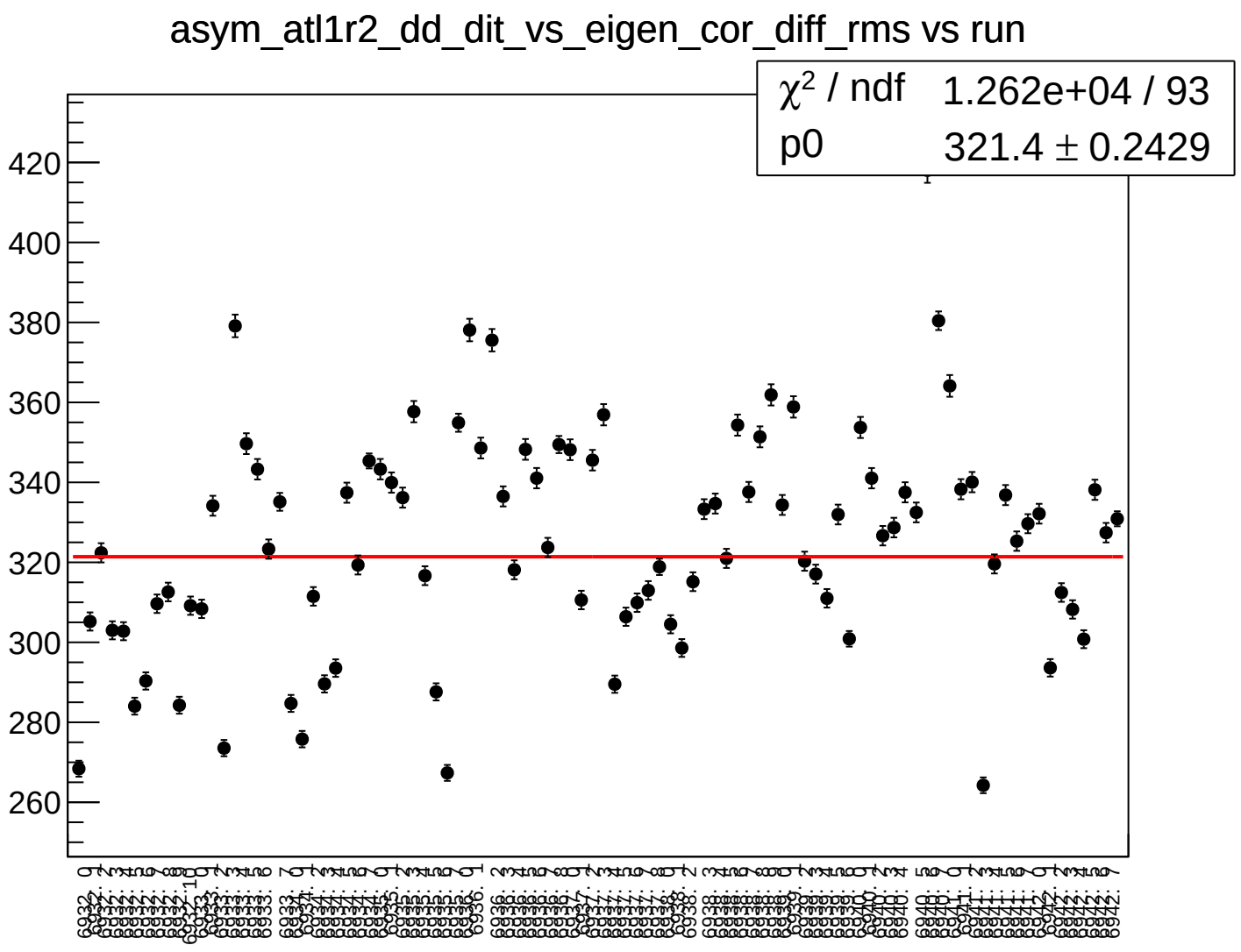

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.78 / 93
p0 −0.1817 ± 0.3435
pull
Entries 94
Mean 5783
Std Dev 0

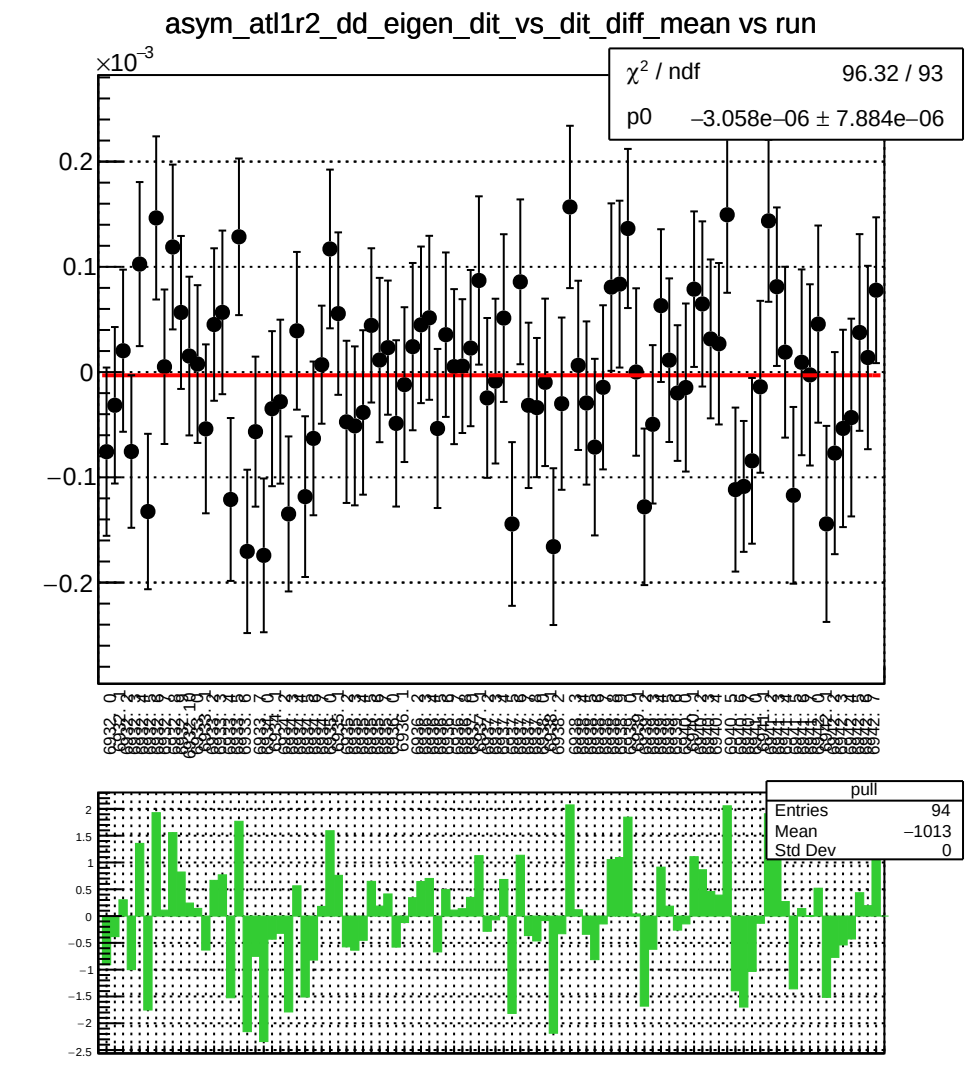

pull1D
Entries 94
Mean 0.0007375
Std Dev 0.9038

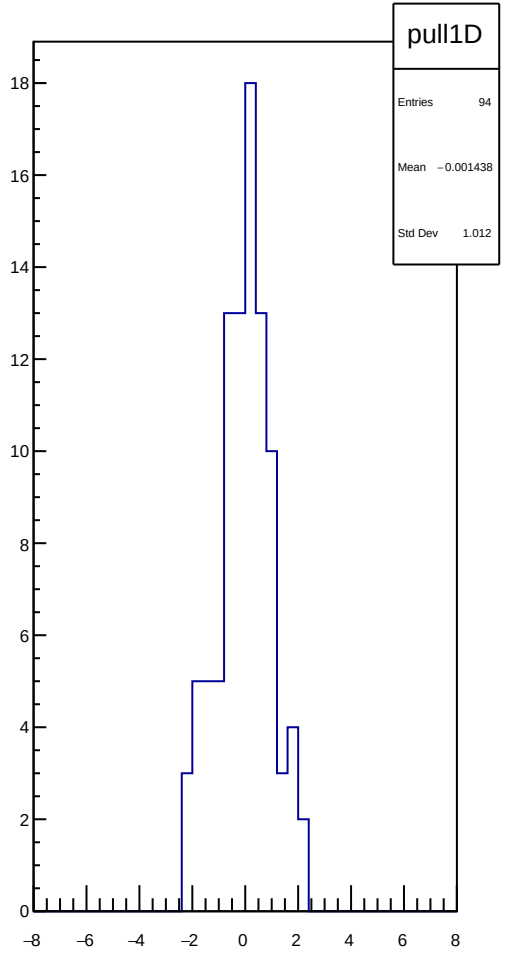

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 321.4 ± 0.2429
420
400
380
360
340
320
300
280
260

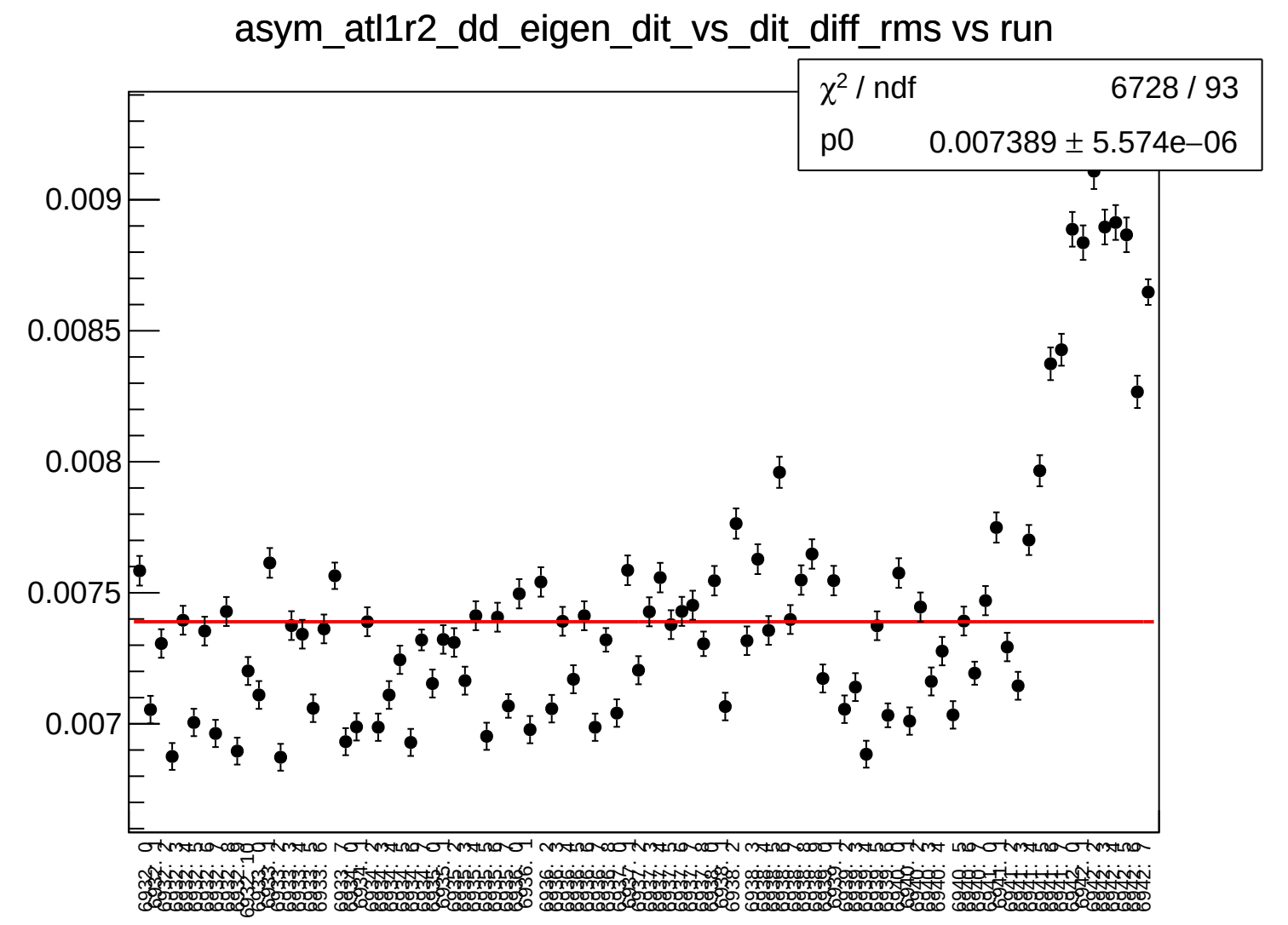

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.78 / 93
p0 −0.1817 ± 0.3435
pull
Entries 94
Mean 5783
Std Dev 0

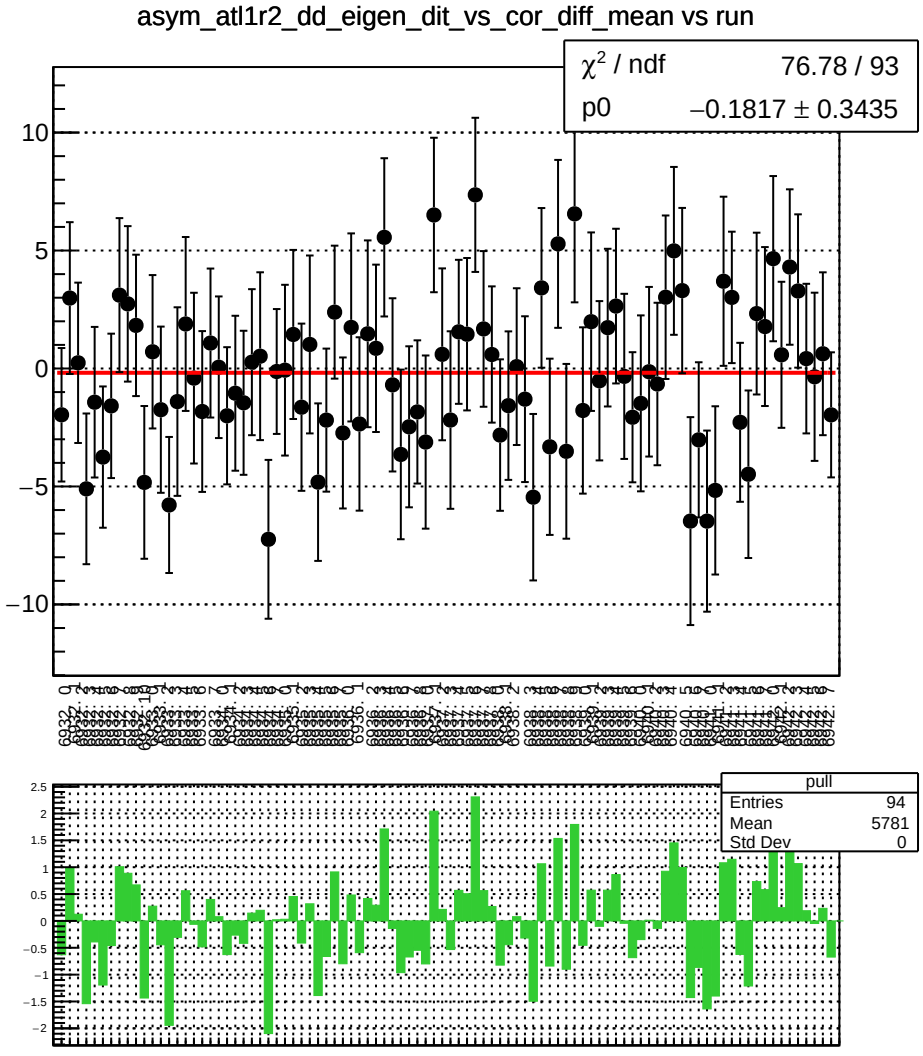

pull1D
Entries 94
Mean 0.0007375
Std Dev 0.9038

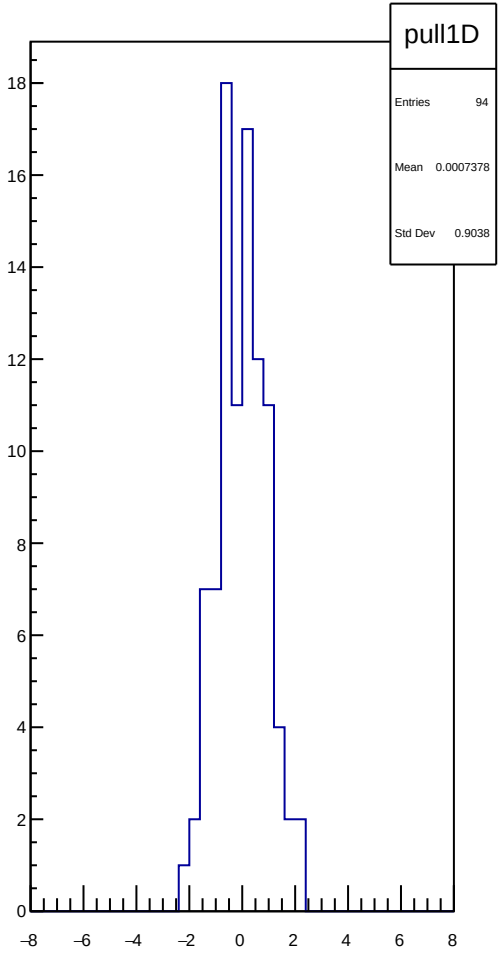

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 321.4 ± 0.2429
420
400
380
360
340
320
300
280
260

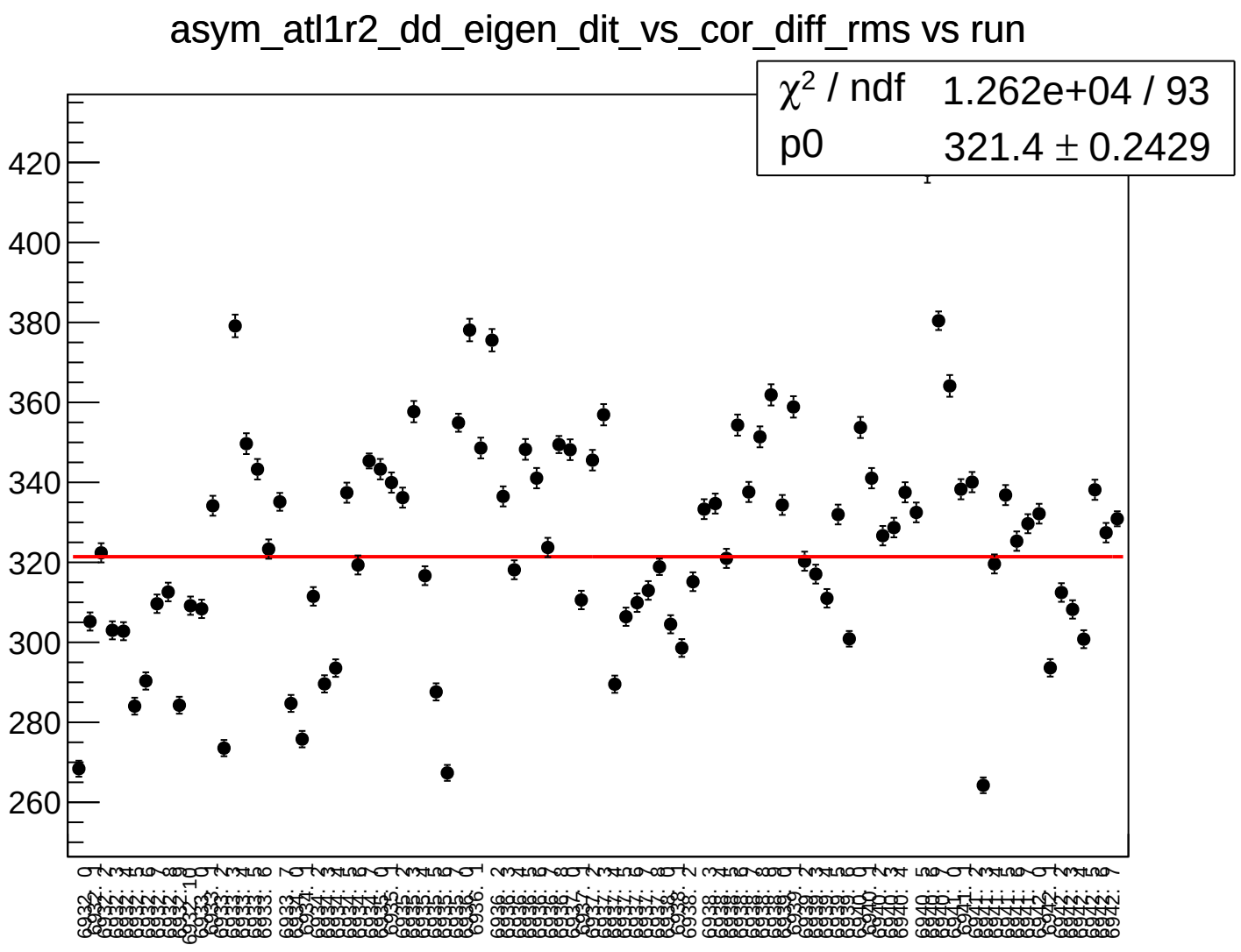

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.32 / 93
p0 −3.058e−06 ± 7.884e−06
pull
Entries 94
Mean −1013
Std Dev 0

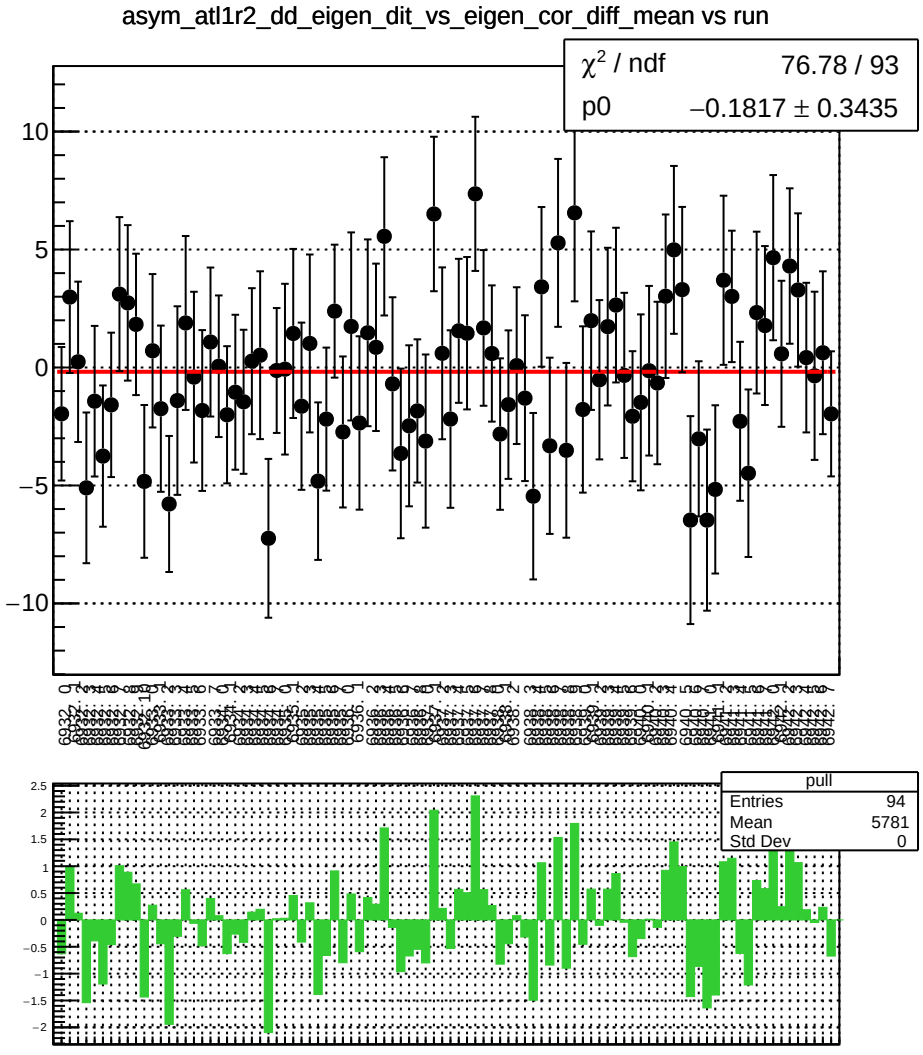

pull1D
Entries 94
Mean −0.001438
Std Dev 1.012

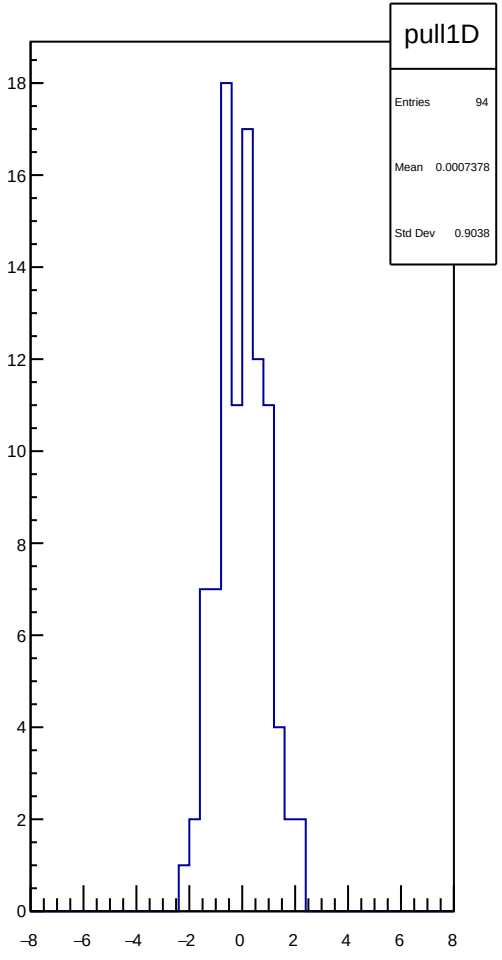

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6728 / 93
p0 0.007389 ± 5.574e−06
0.009
0.0085
0.008
0.0075
0.007

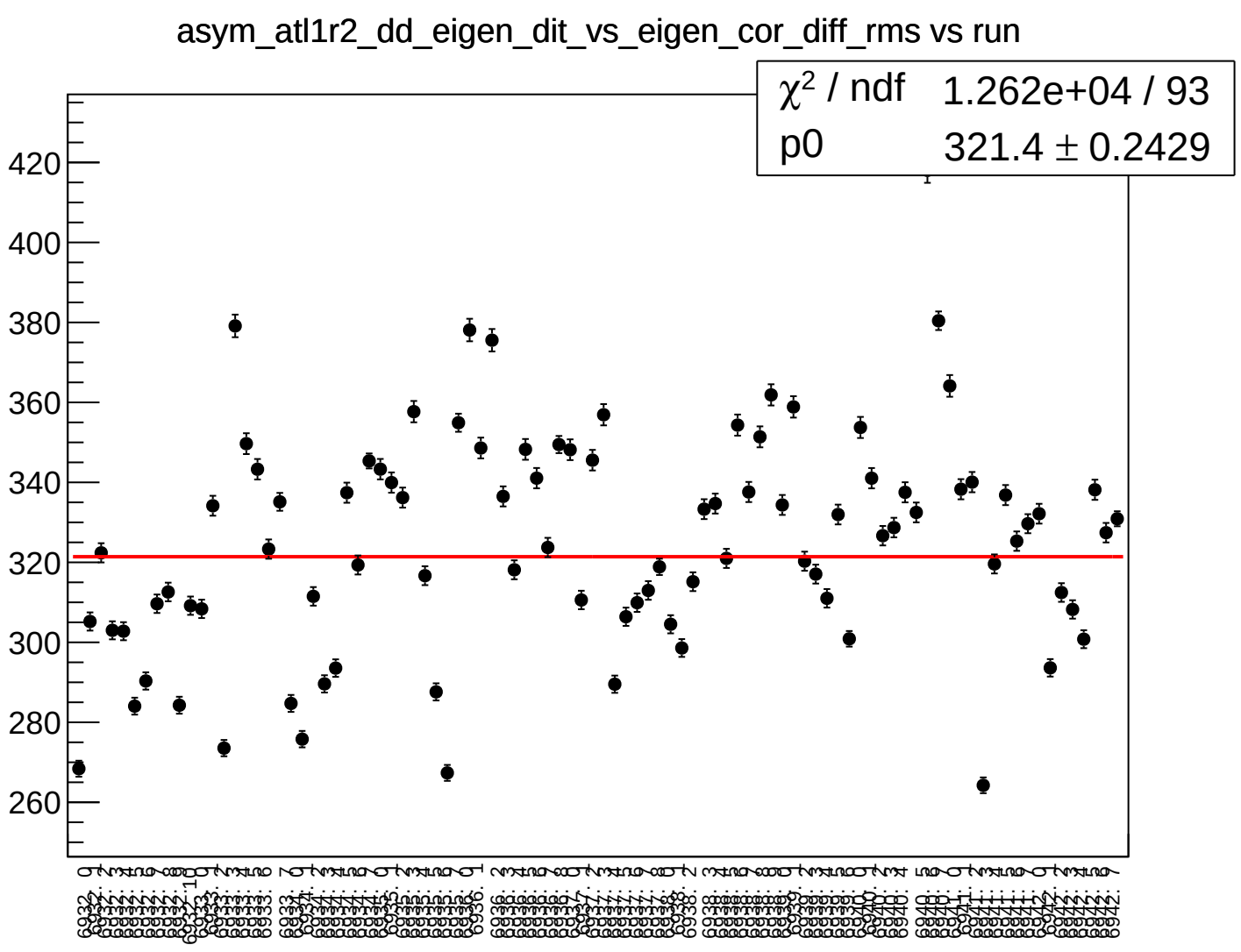

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.78 / 93
p0 −0.1817 ± 0.3435
pull
Entries 94
Mean 5781
Std Dev 0

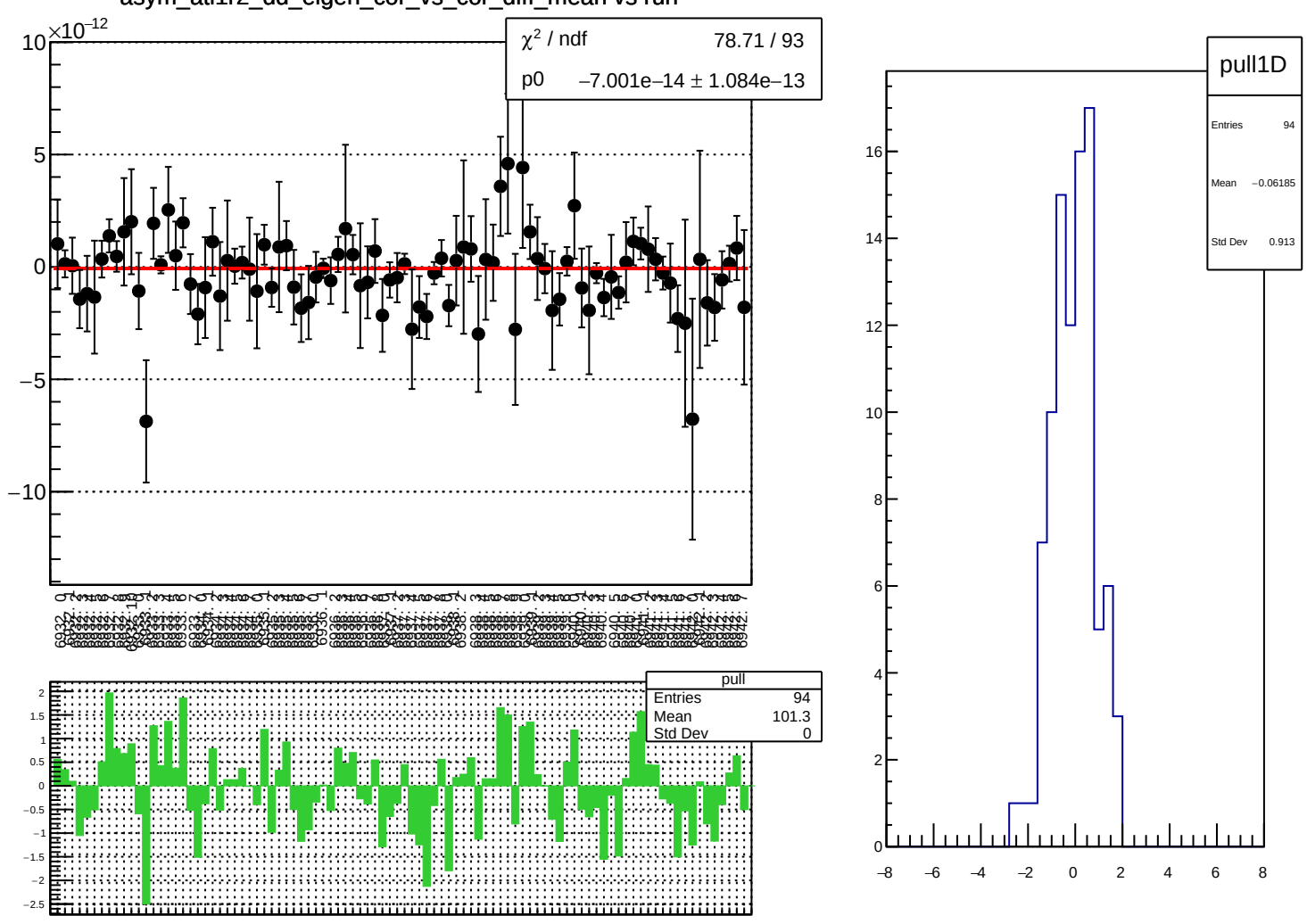

pull1D
Entries 94
Mean 0.0007378
Std Dev 0.9038

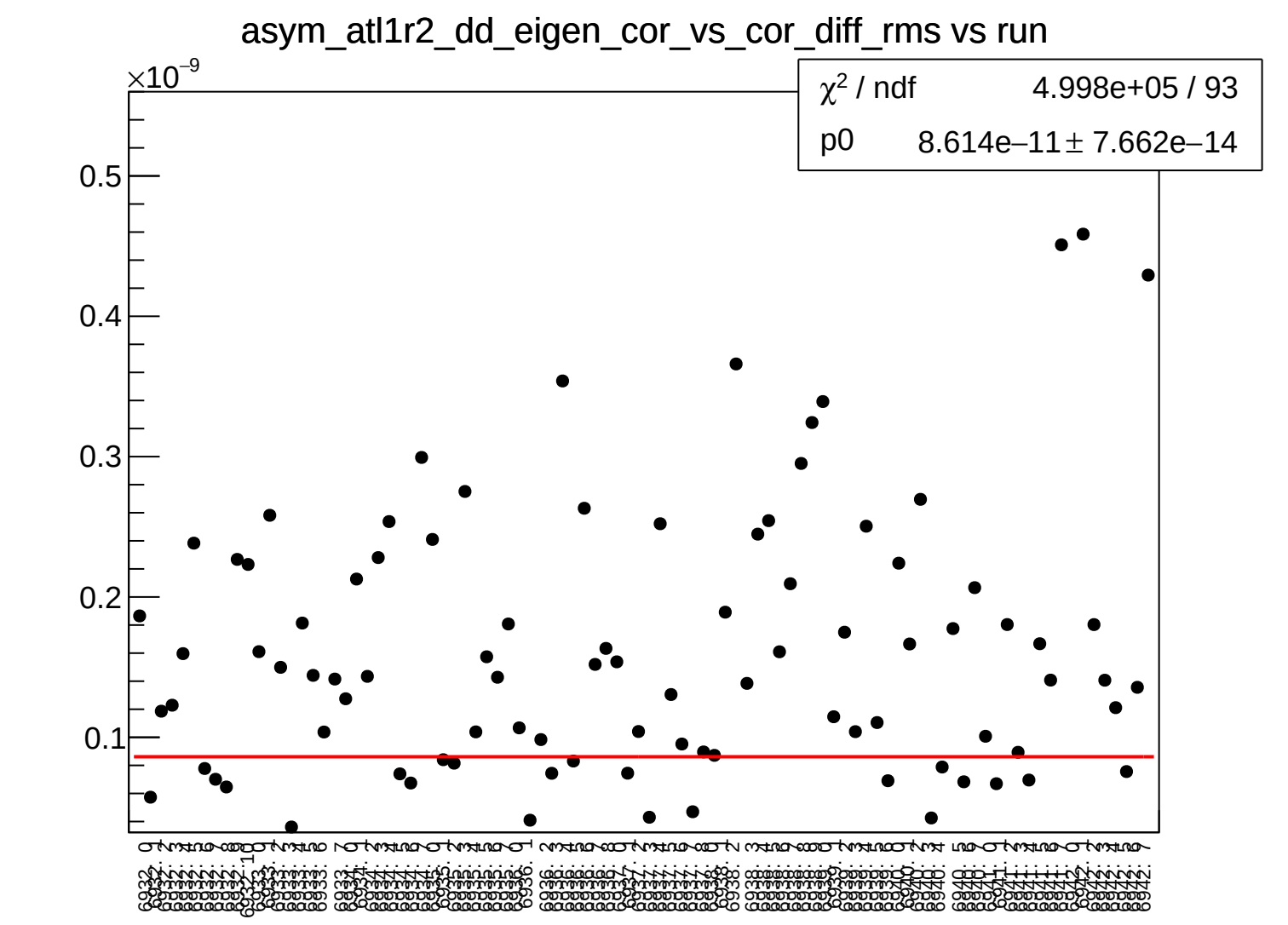

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 321.4 ± 0.2429
420
400
380
360
340
320
300
280
260

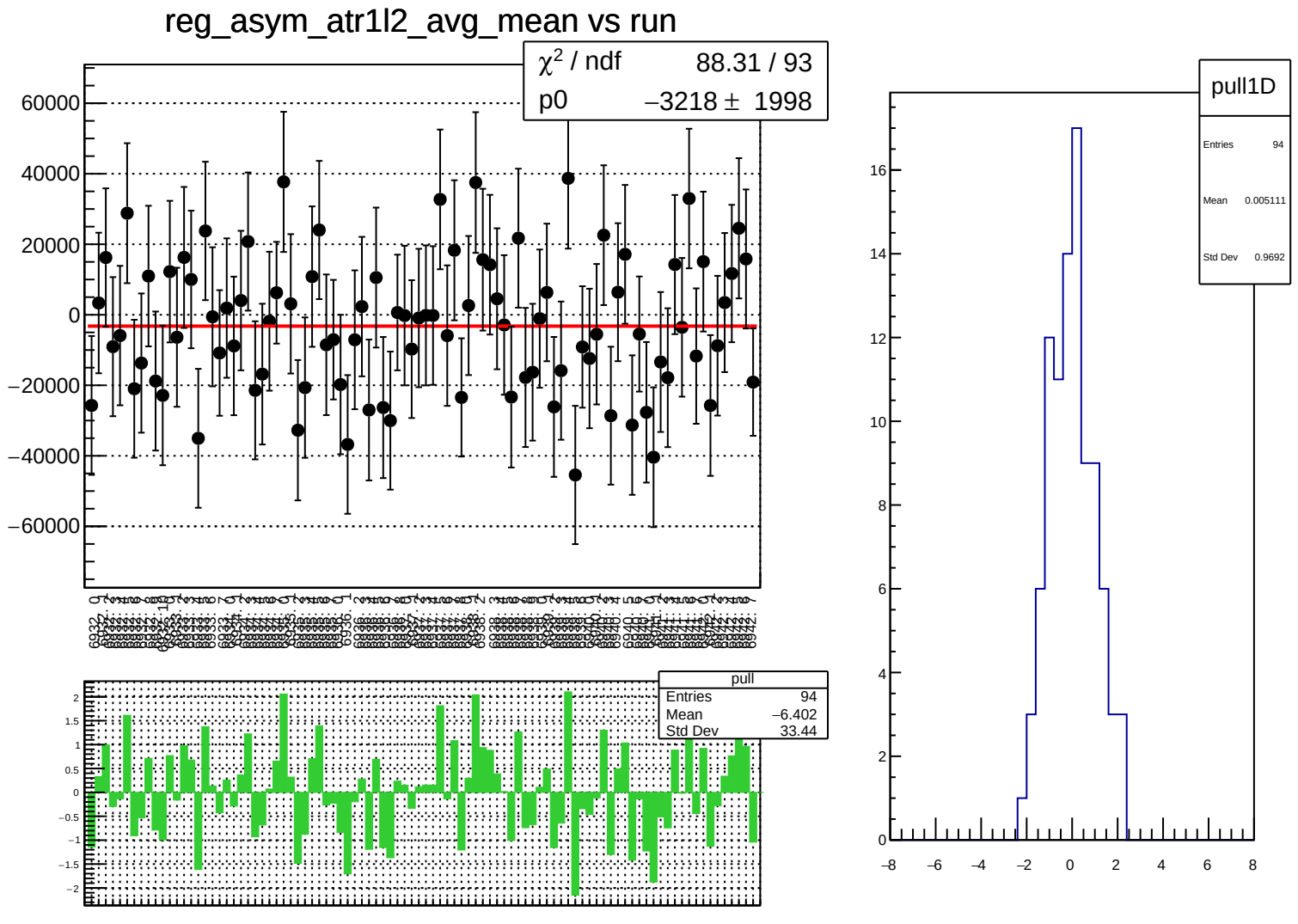

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.78 / 93
p0 −0.1817 ± 0.3435
pull
Entries 94
Mean 5781
Std Dev 0

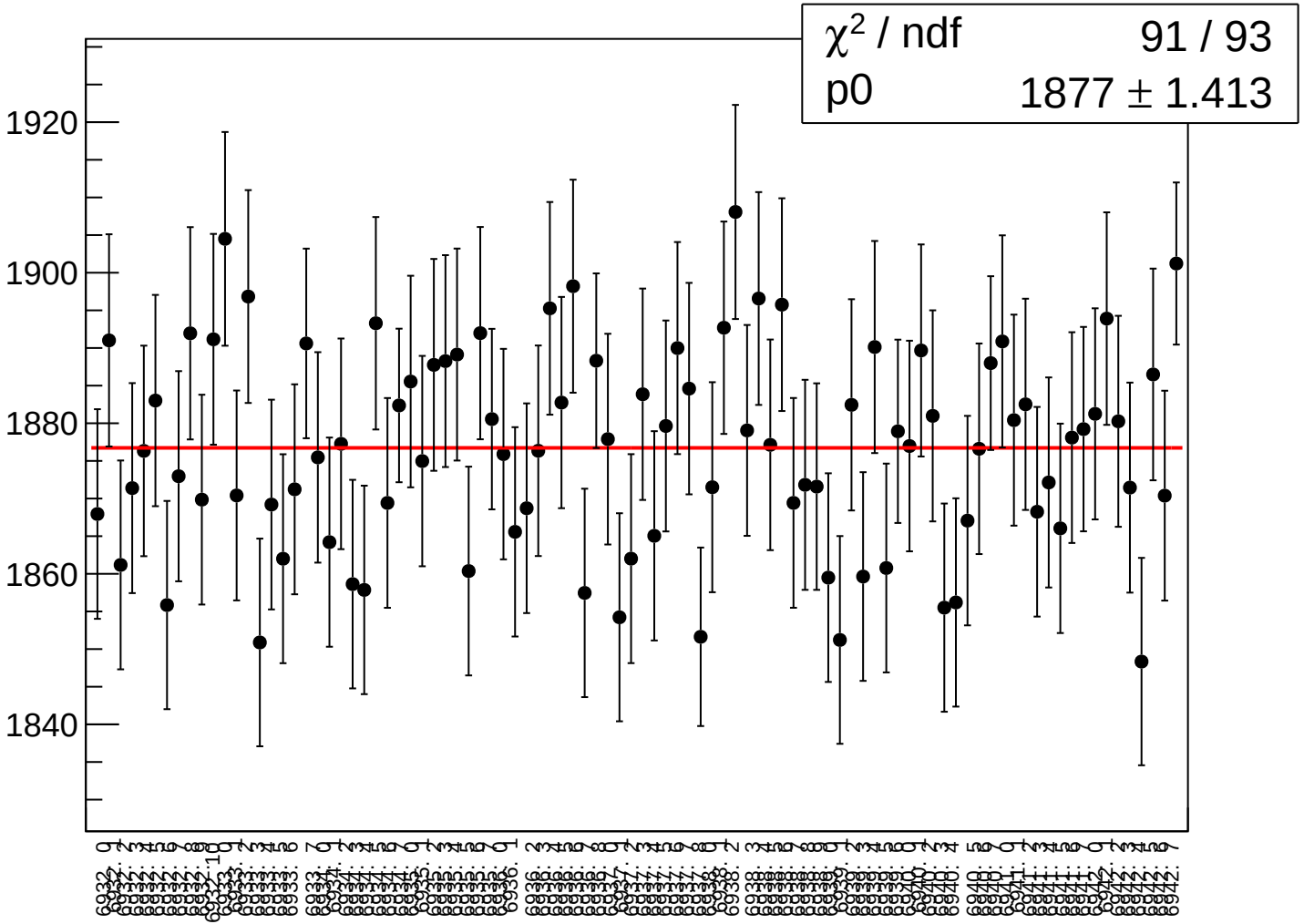

pull1D
Entries 94
Mean 0.0007378
Std Dev 0.9038

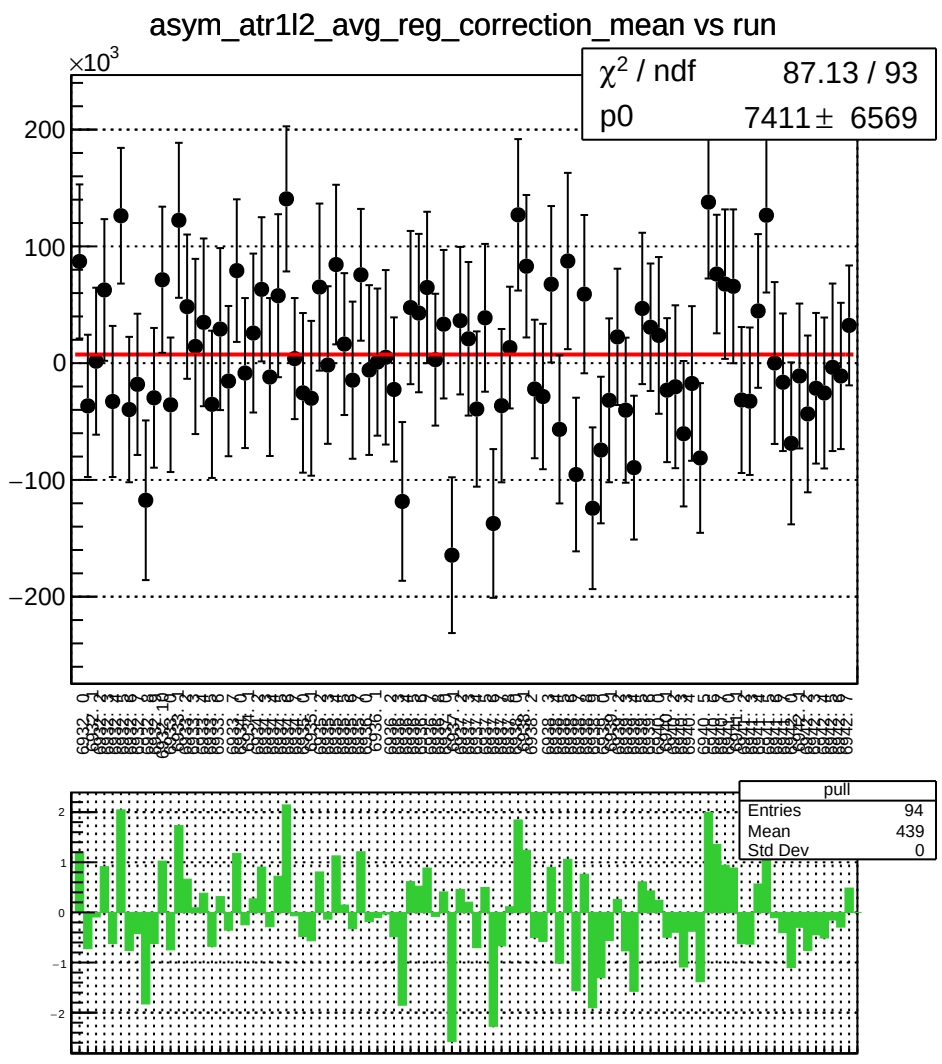

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 321.4 ± 0.2429
420
400
380
360
340
320
300
280
260

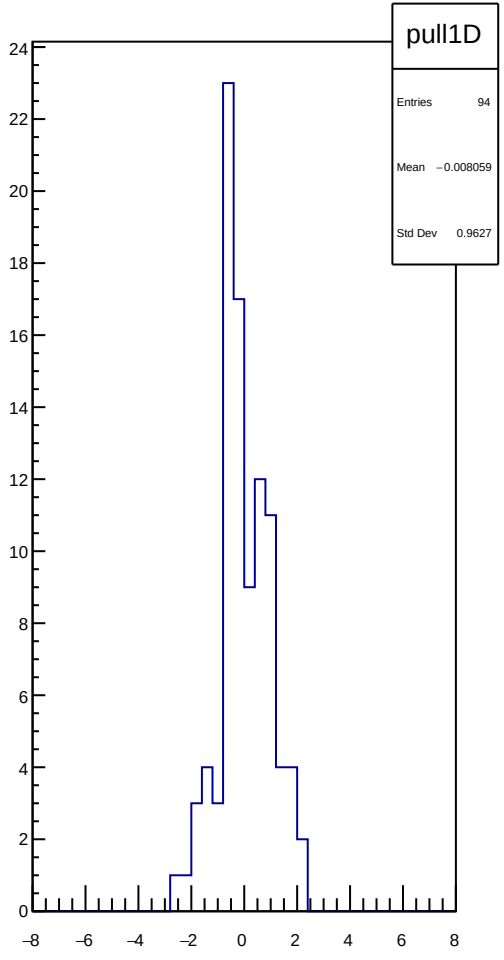

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.71 / 93
p0 −7.001e−14 ± 1.084e−13
pull
Entries 94
Mean 101.3
Std Dev 0
pull1D
Entries 94
Mean −0.06185
Std Dev 0.913

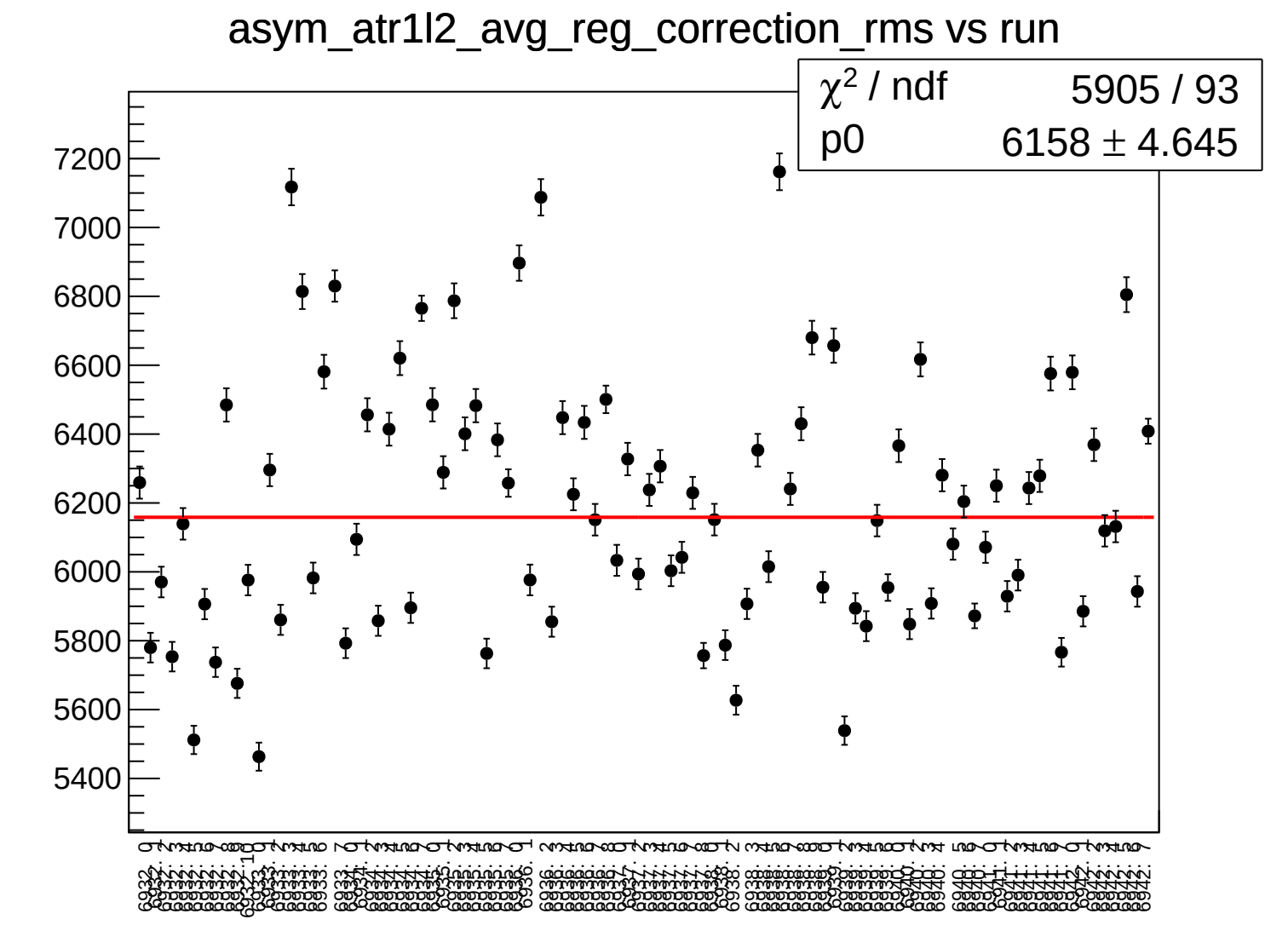

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.998e+05 / 93
p0 8.614e−11 ± 7.662e−14
0.5
0.4
0.3
0.2
0.1

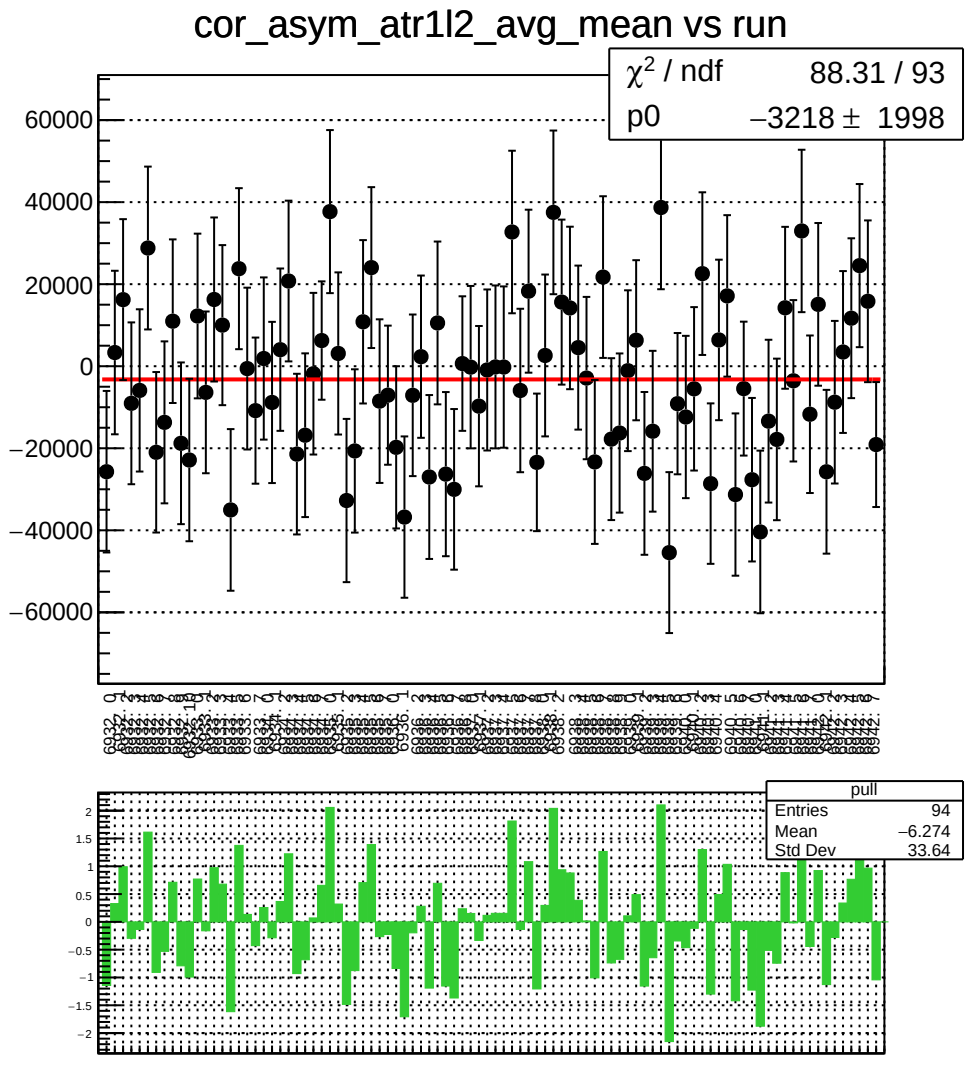

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 88.31 / 93
p0 −3218 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −6.402
Std Dev 33.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.005111
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

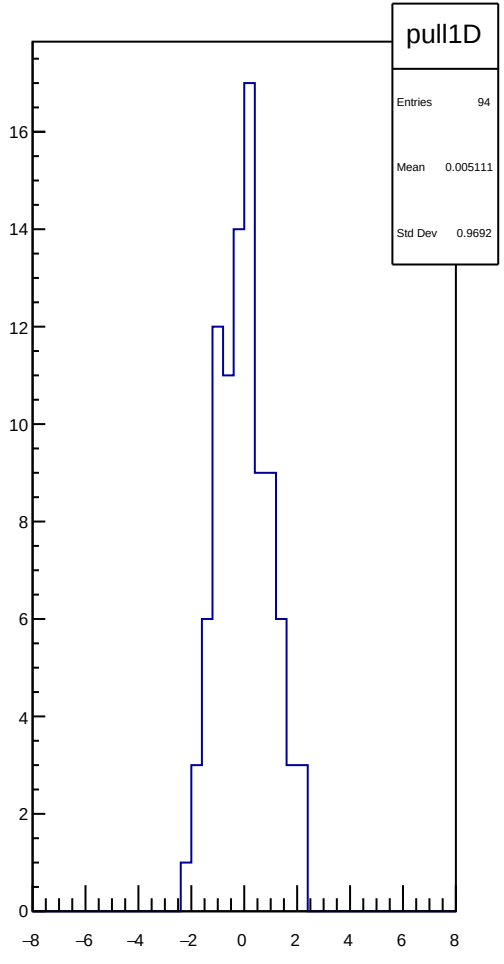

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 91 / 93
p0 1877 ± 1.413
1920
1900
1880
1860
1840

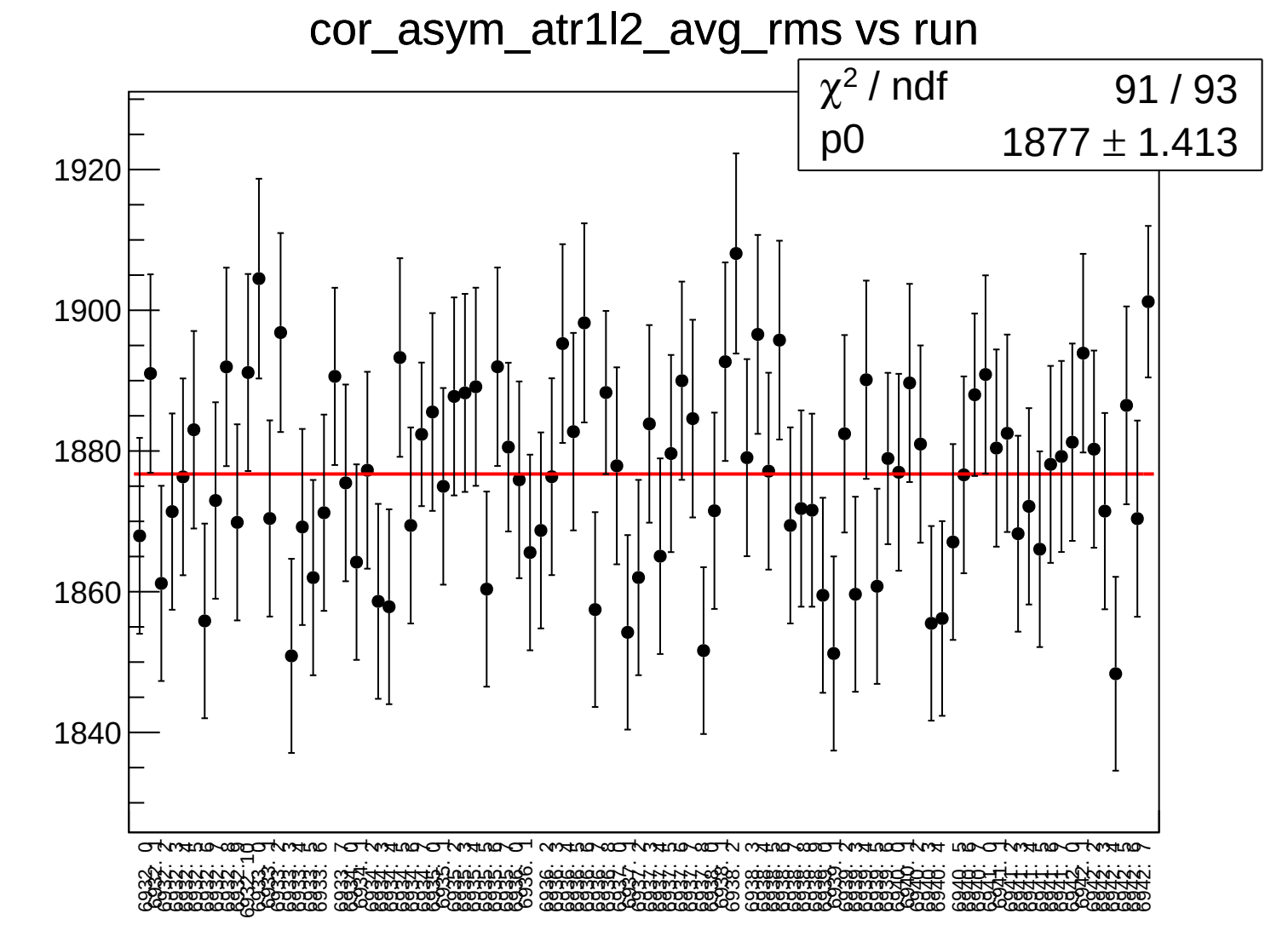

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.13 / 93
p0 7411 ± 6569
200
100
0
−100
−200
pull
Entries 94
Mean 439
Std Dev 0
2
1
0
−1
−2

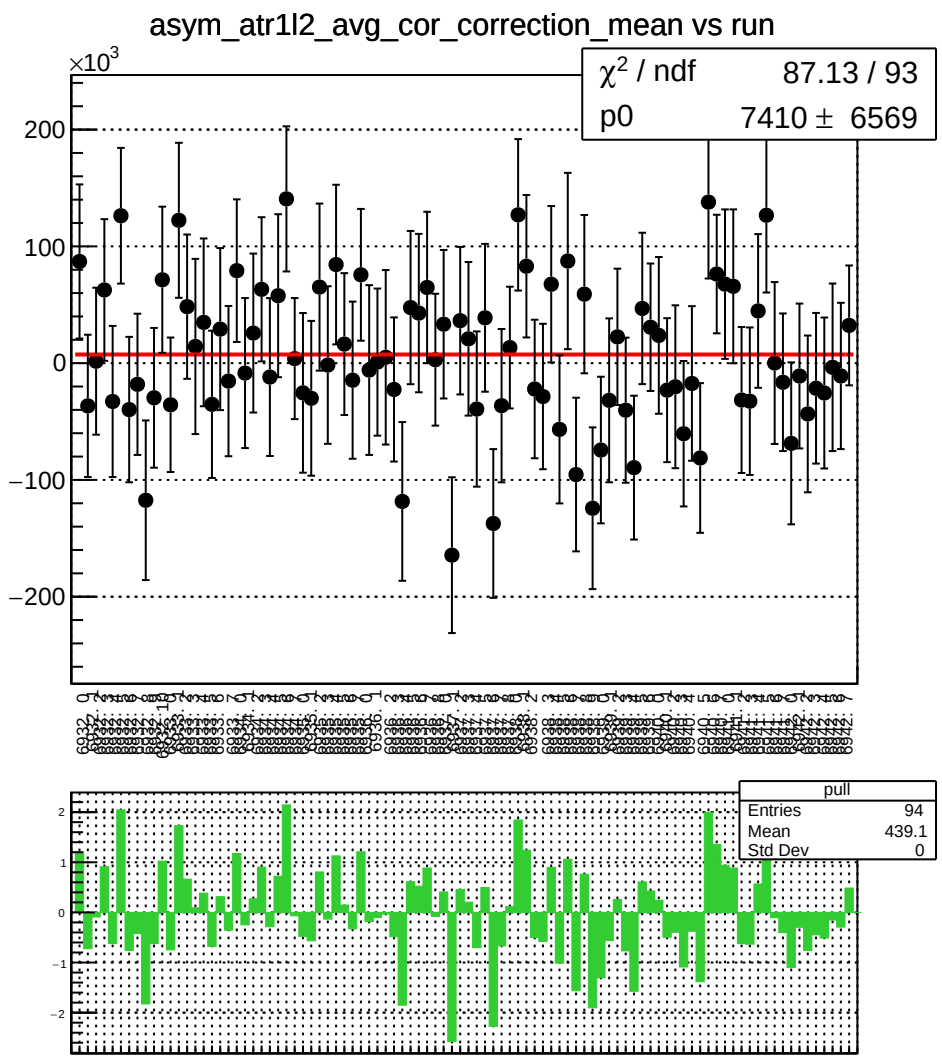

pull1D
Entries 94
Mean −0.008059
Std Dev 0.9627
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

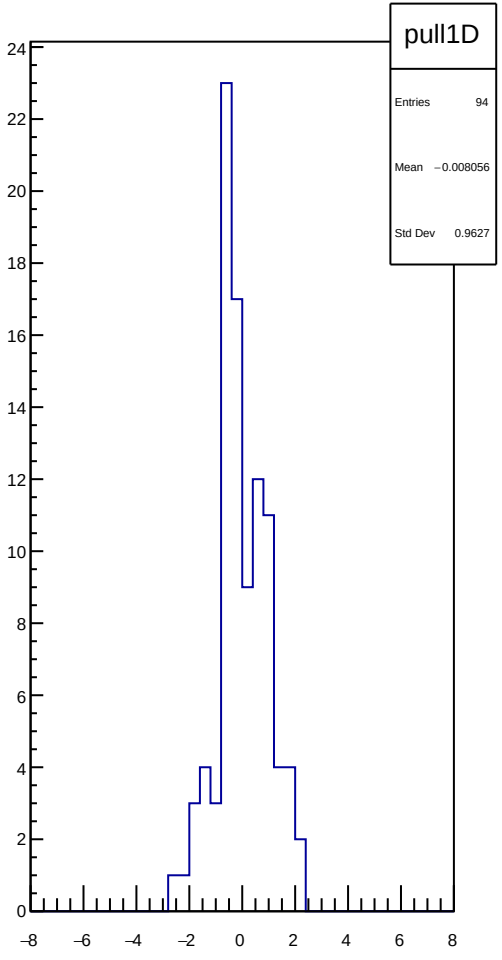

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 5905 / 93
p0 6158 ± 4.645
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

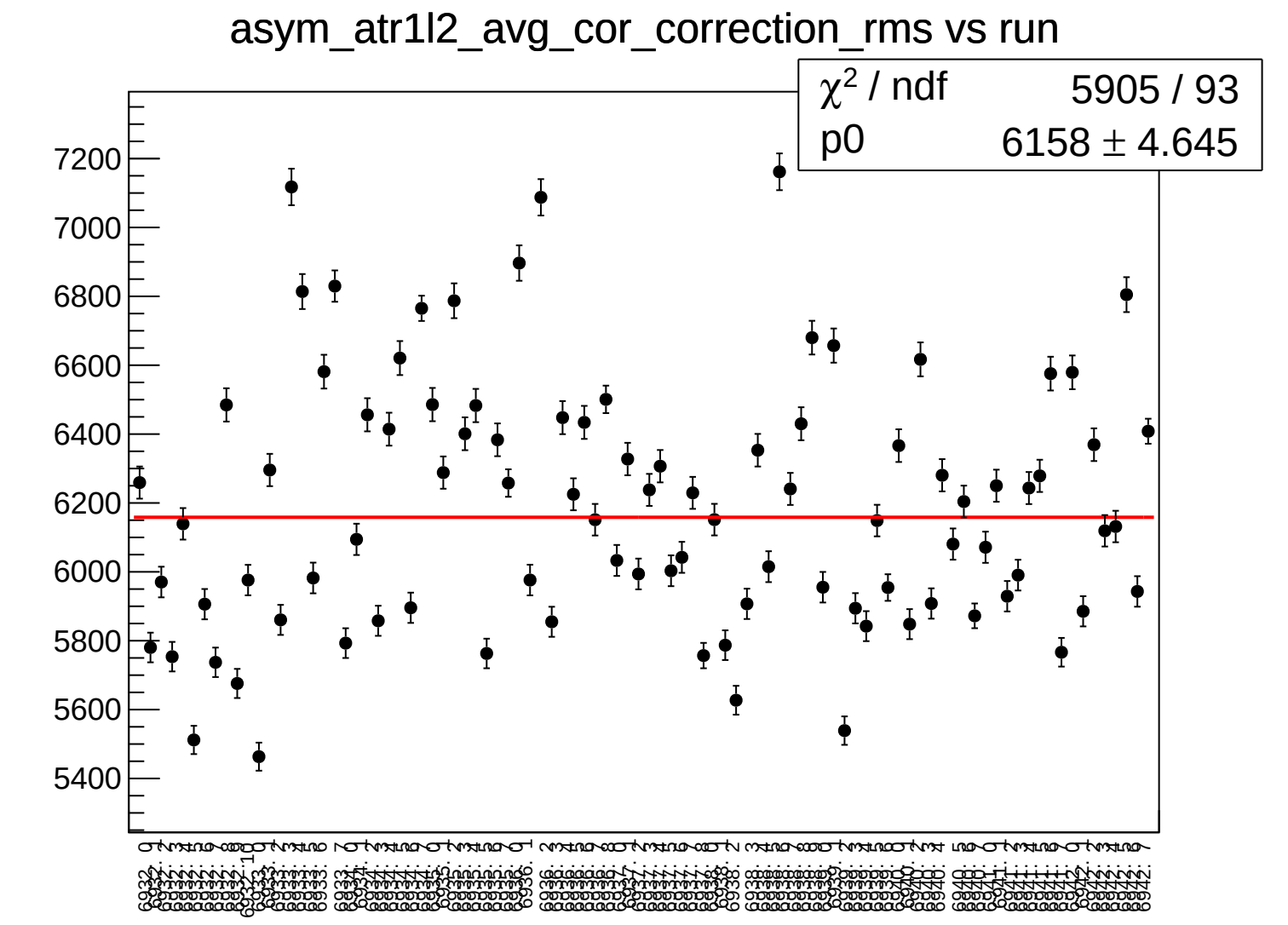

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.31 / 93
p0 −3218 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −6.274
Std Dev 33.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

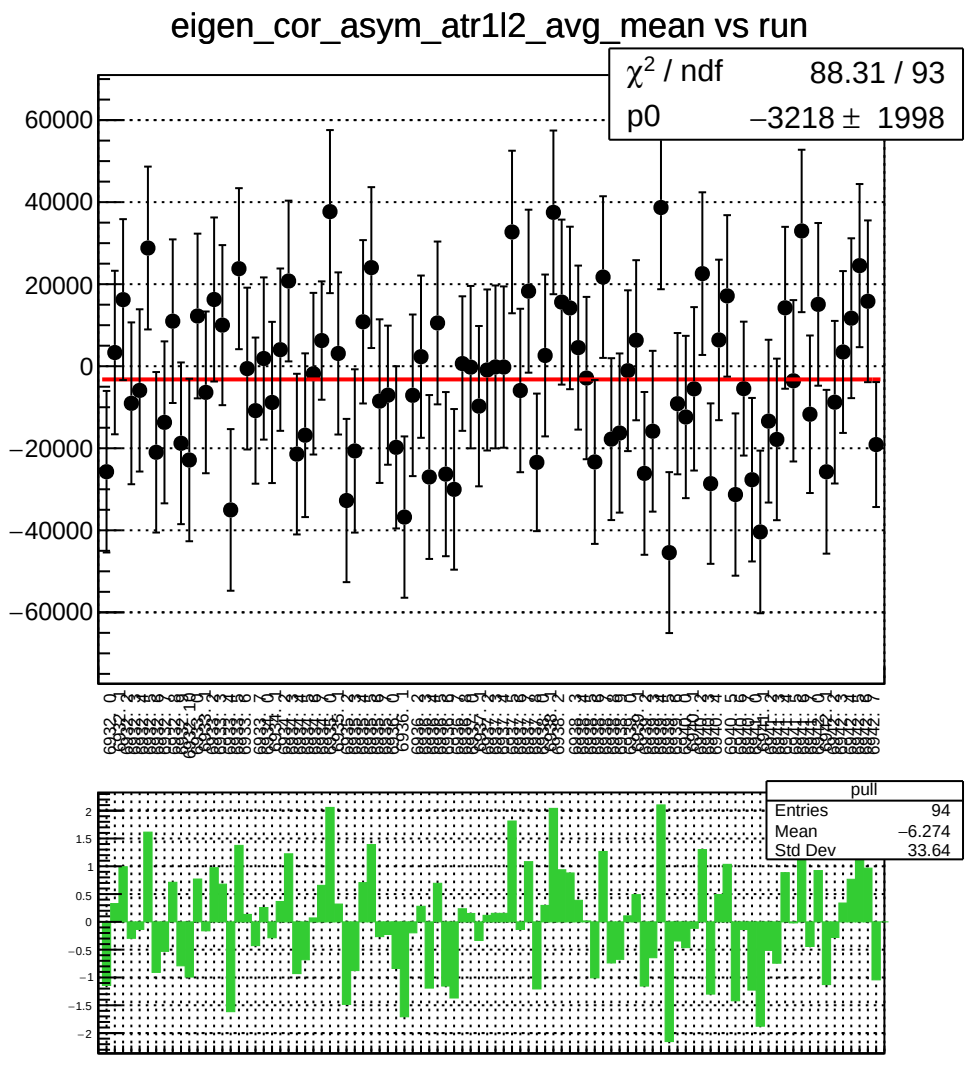

pull1D
Entries 94
Mean 0.005111
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

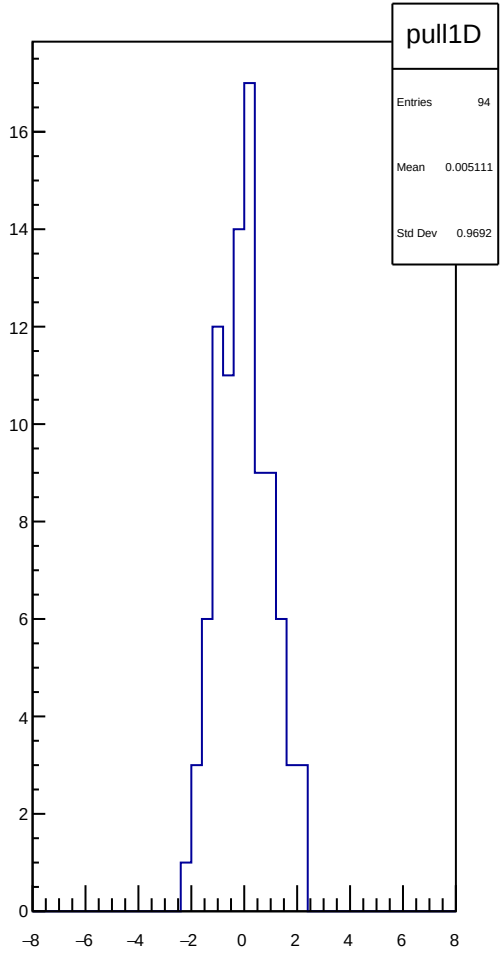

cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 91 / 93
p0 1877 ± 1.413
1920
1900
1880
1860
1840

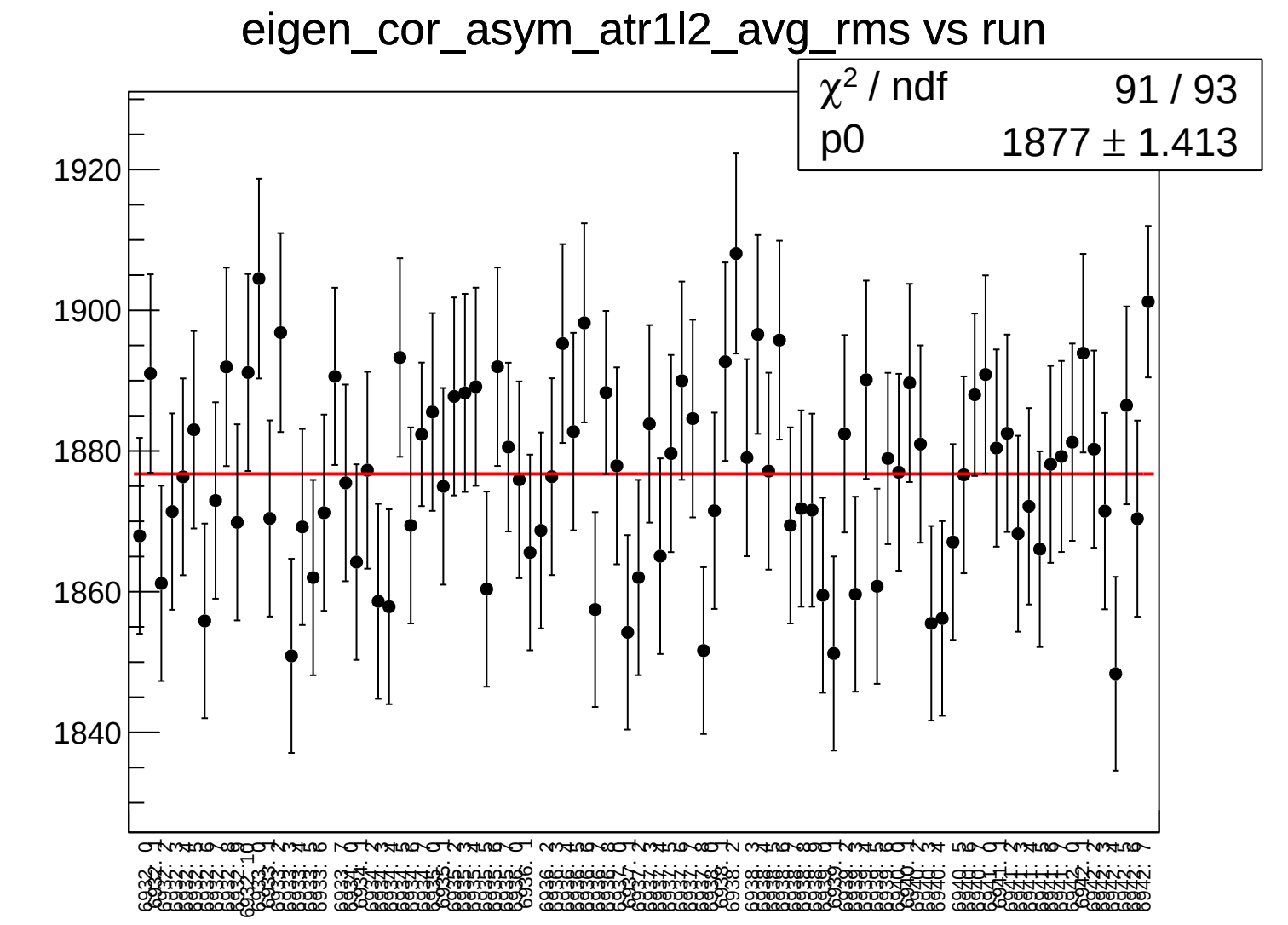

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 87.13 / 93
p0 7410 ± 6569
×10³
200
100
0
−100
−200
pull
Entries 94
Mean 439.1
Std Dev 0
2
1
0
−1
−2

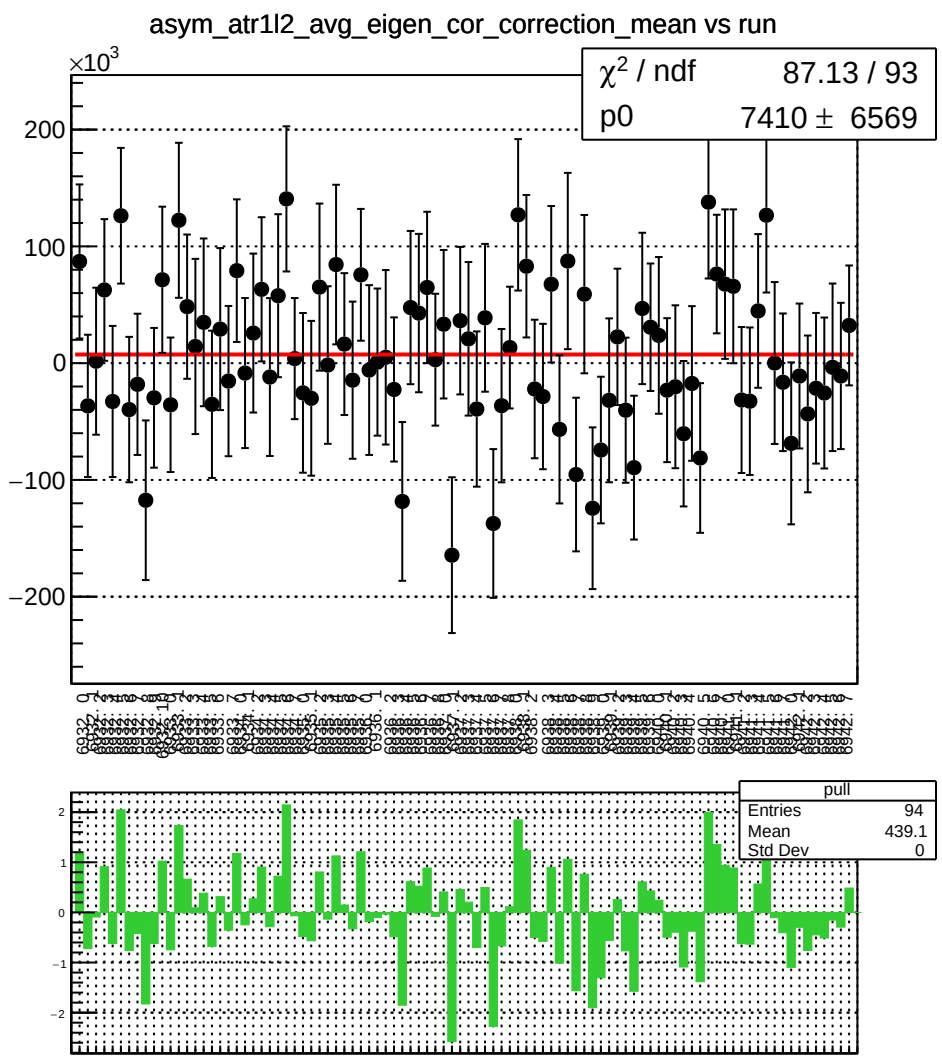

pull1D
Entries 94
Mean −0.008056
Std Dev 0.9627
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

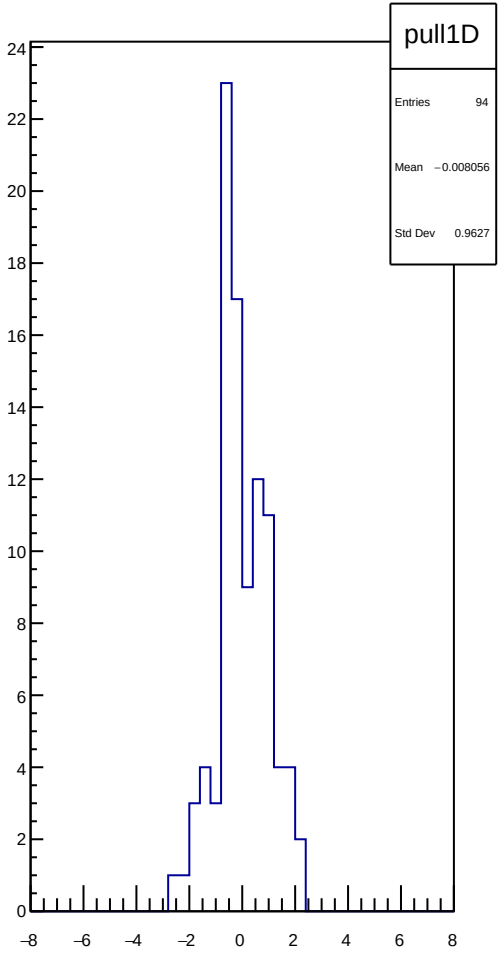

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 5905 / 93
p0 6158 ± 4.645
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

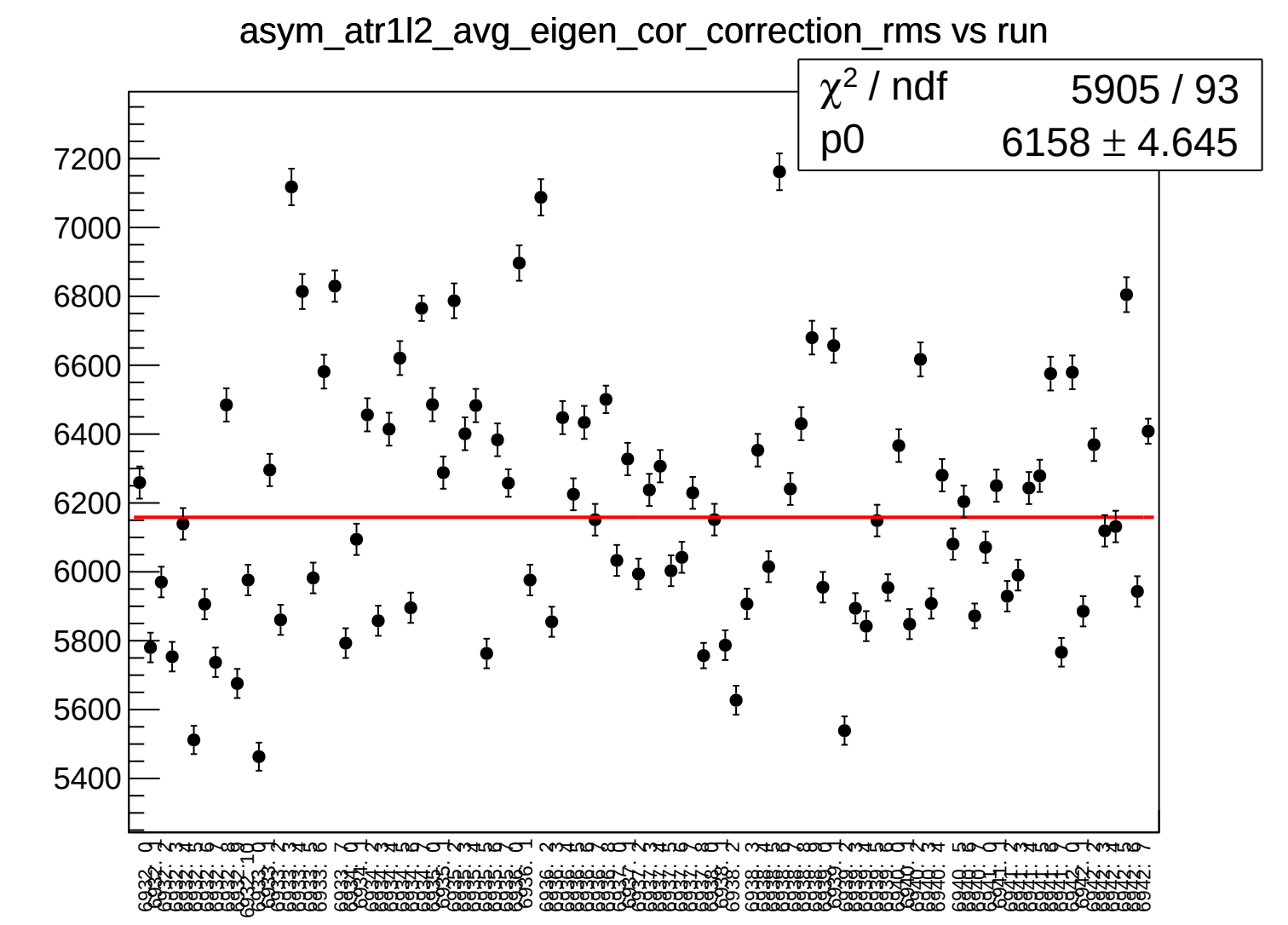

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 88.31 / 93
p0 −3218 ± 1998
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −6.274
Std Dev 33.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

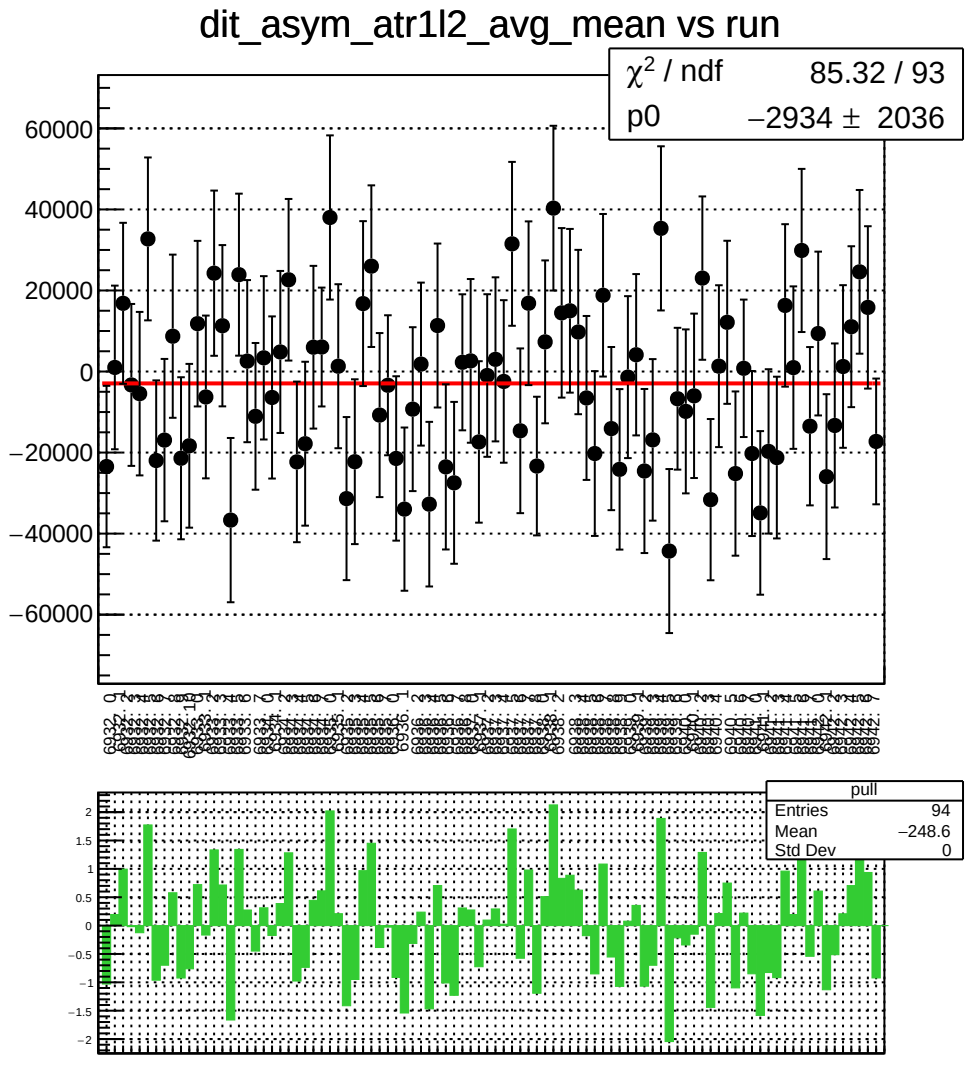

pull1D
Entries 94
Mean 0.005111
Std Dev 0.9692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

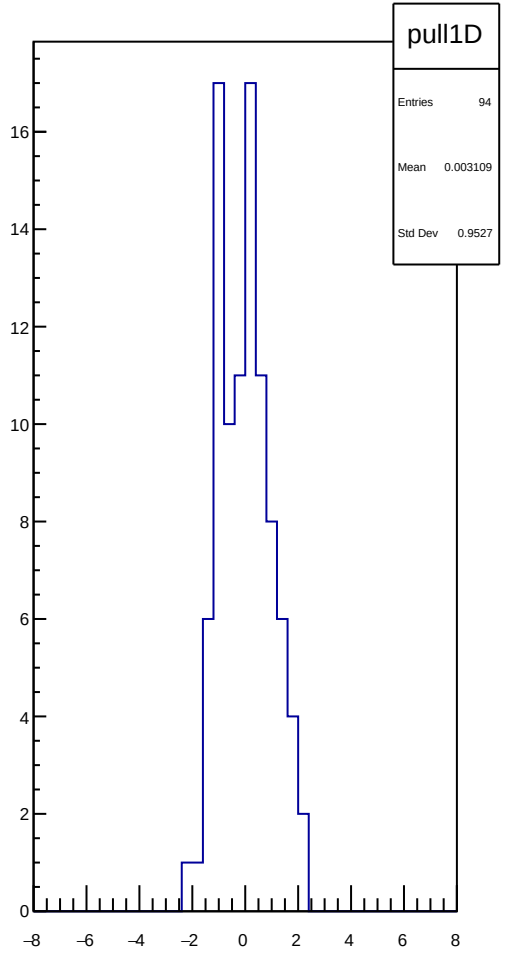

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 91 / 93
p0 1877 ± 1.413
1920
1900
1880
1860
1840

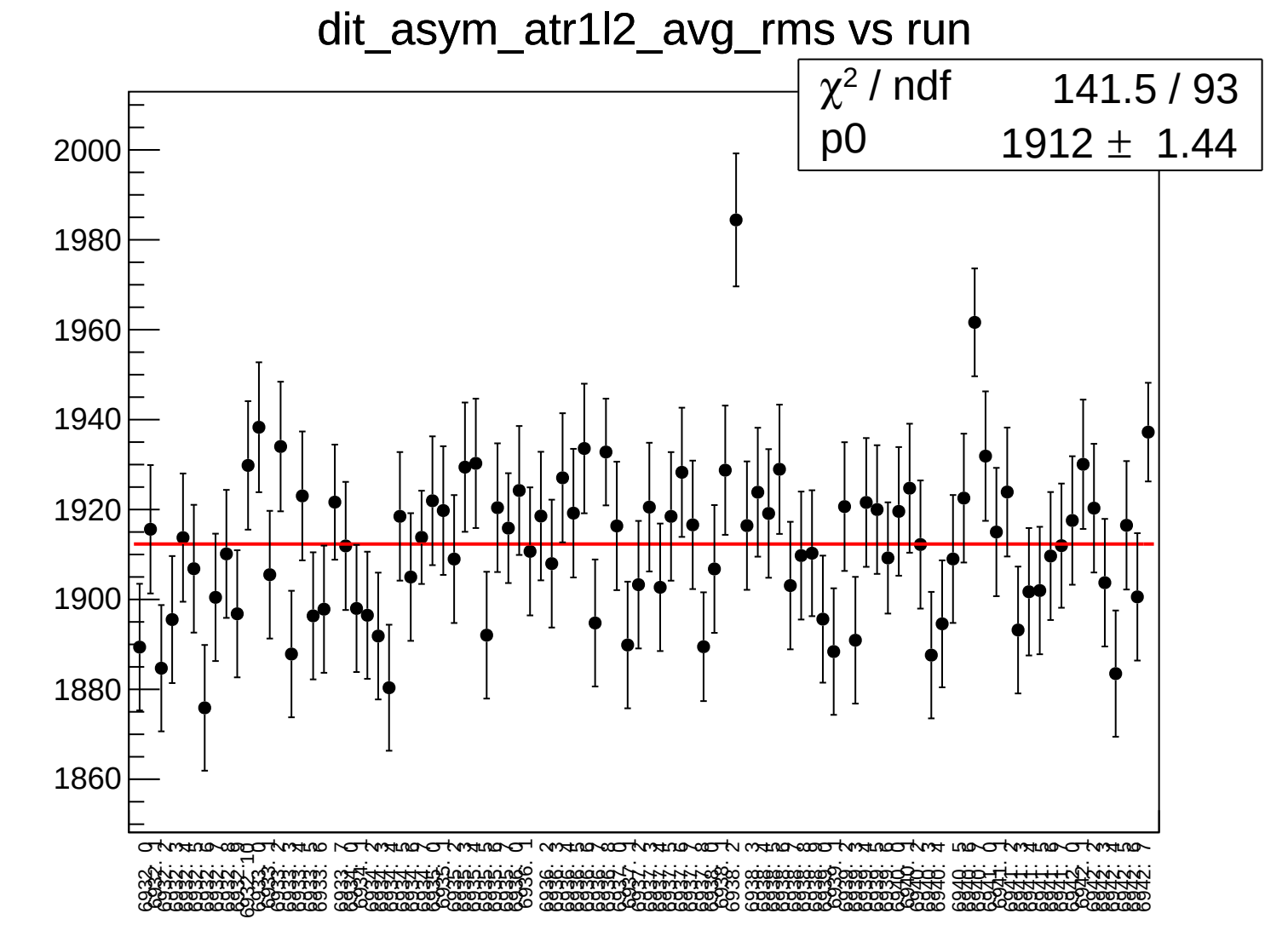

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.13 / 93
p0 7410 ± 6569
pull
Entries 94
Mean 439.1
Std Dev 0

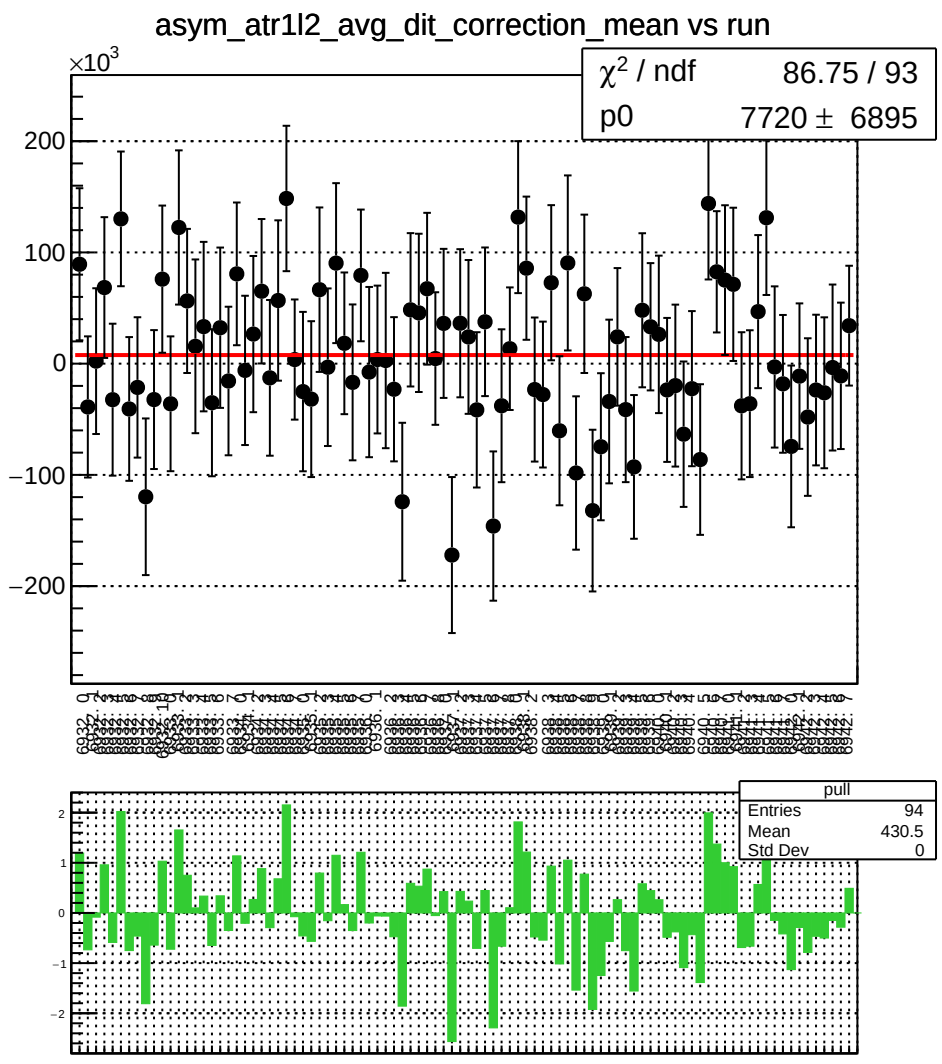

pull1D
Entries 94
Mean −0.008056
Std Dev 0.9627

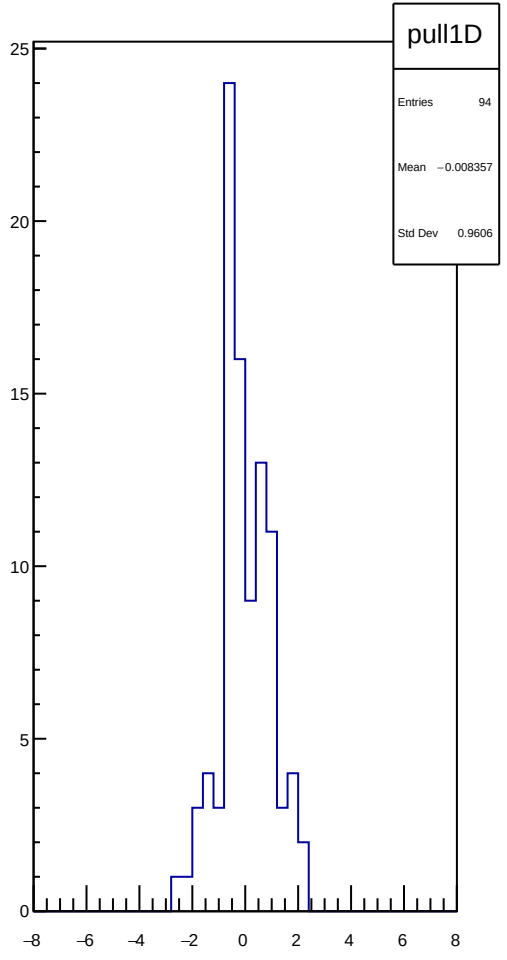

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5905 / 93
p0 6158 ± 4.645
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

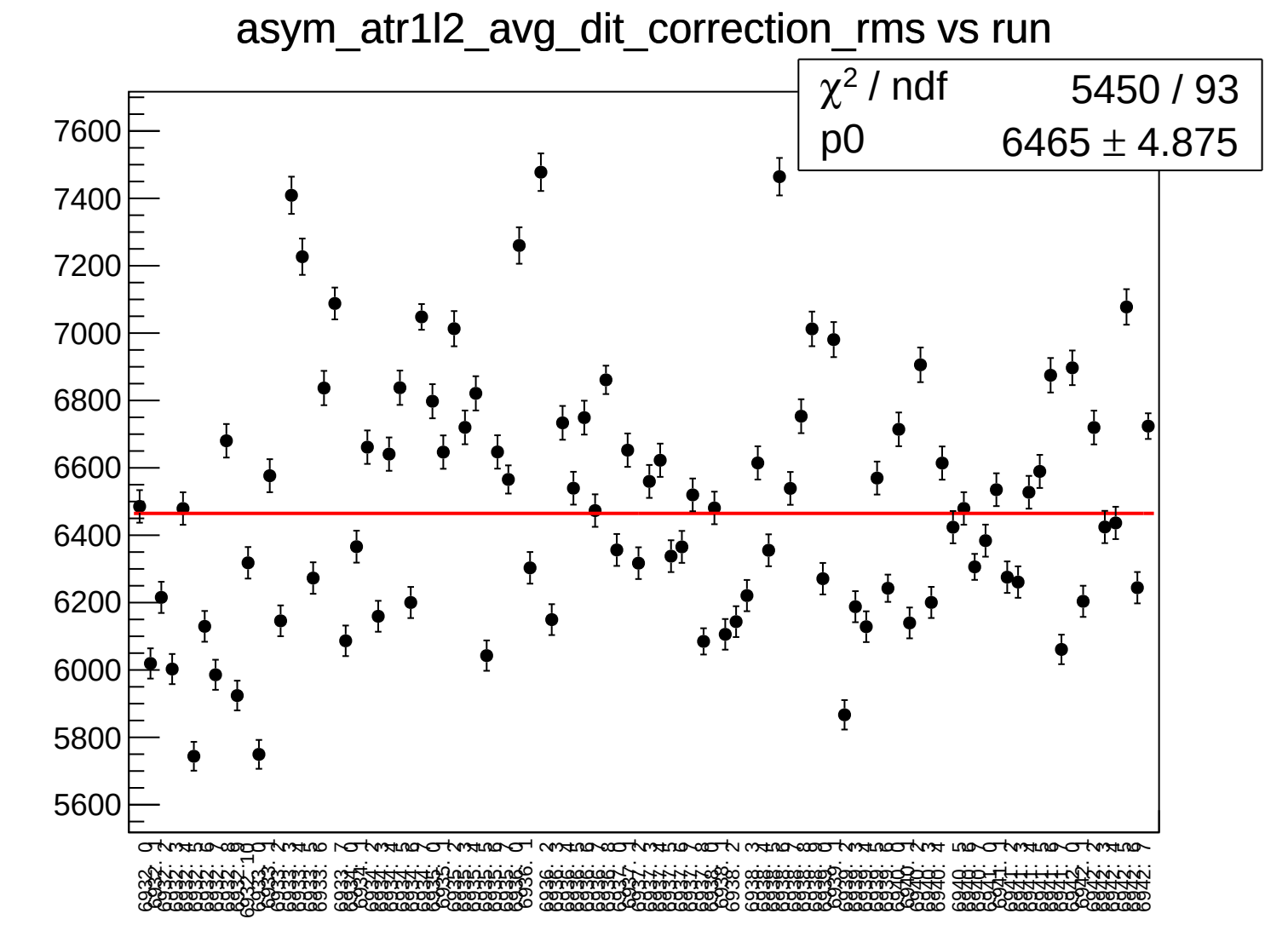

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 85.32 / 93
p0 −2934 ± 2036
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

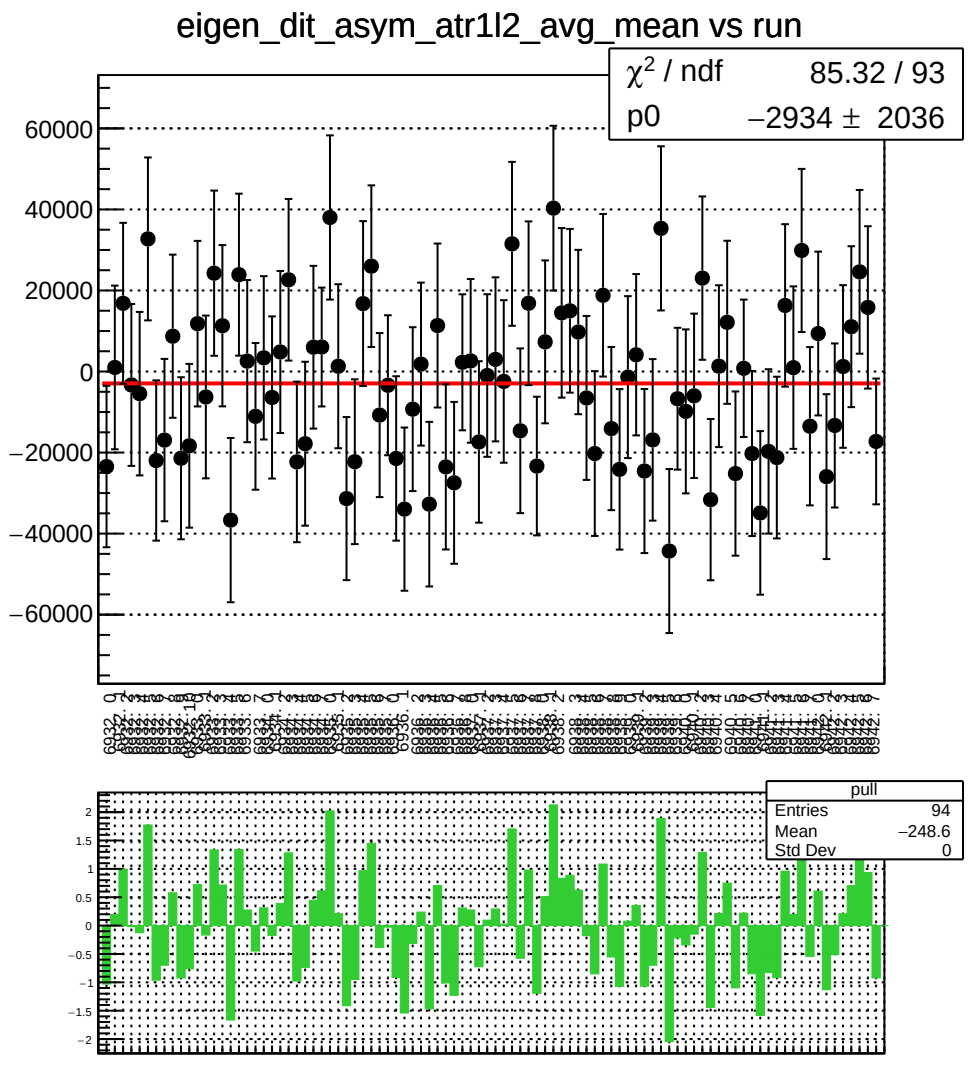

pull1D
Entries 94
Mean 0.003109
Std Dev 0.9527
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

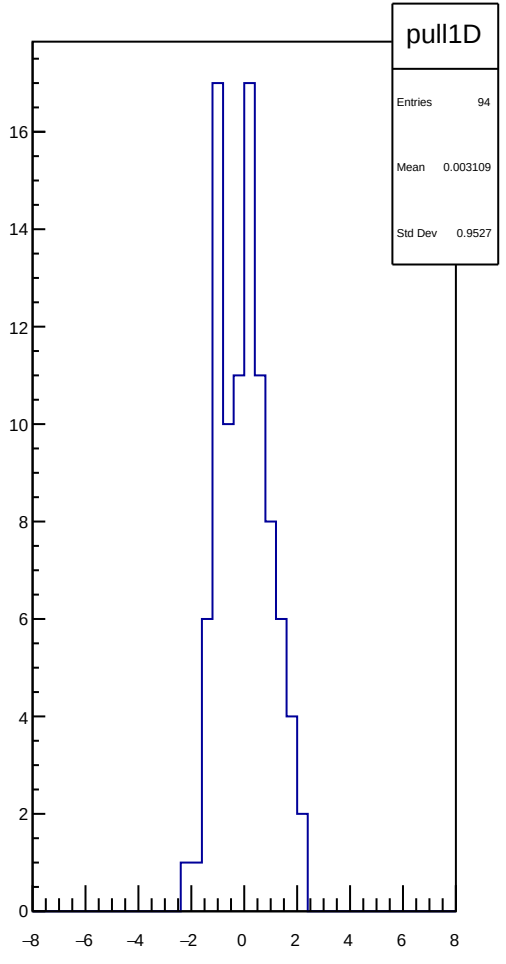

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 141.5 / 93
p0 1912 ± 1.44
2000
1980
1960
1940
1920
1900
1880
1860

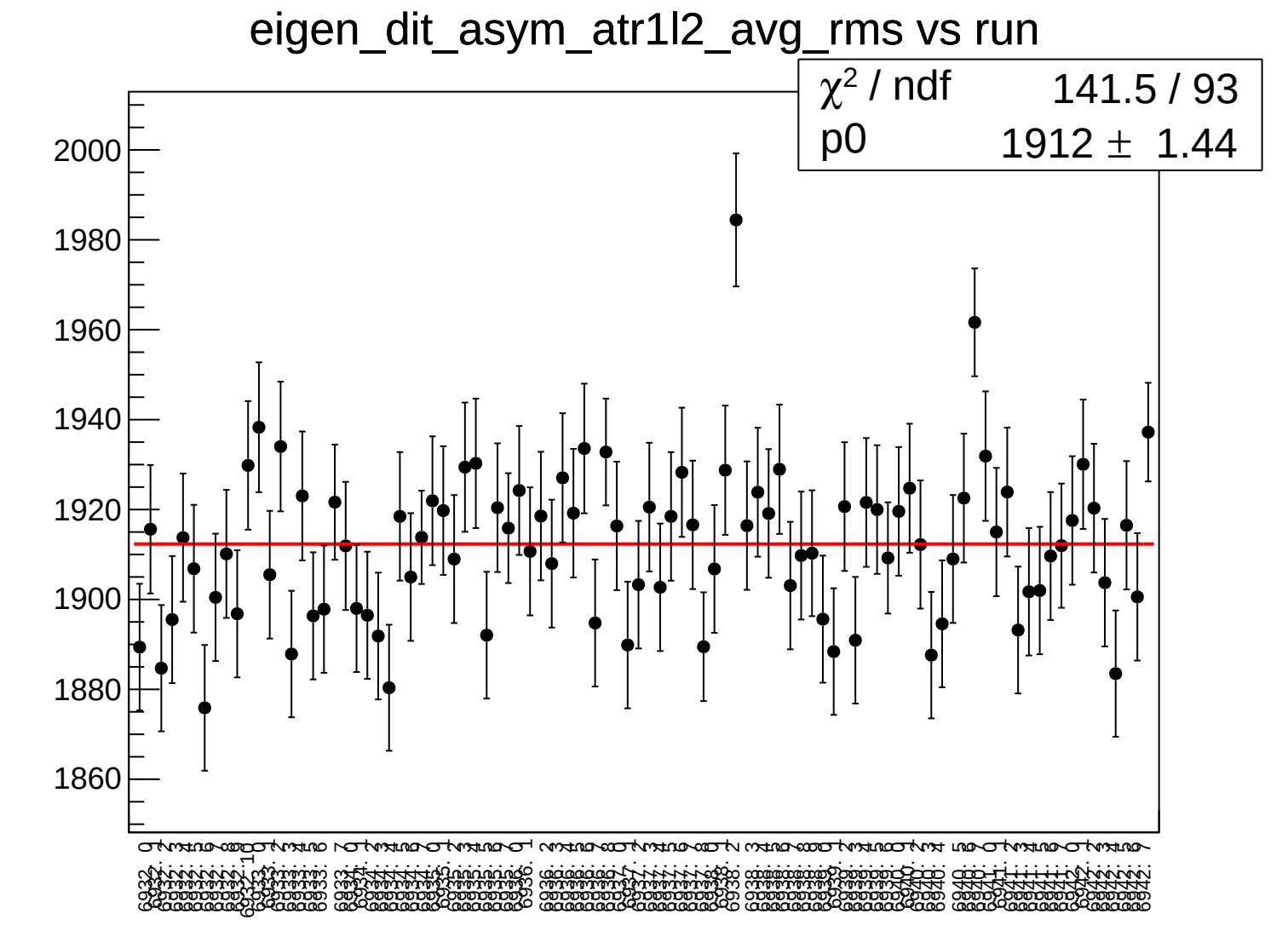

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 7720 ± 6895
200
100
0
−100
−200
pull
Entries 94
Mean 430.5
Std Dev 0
2
1
0
−1
−2

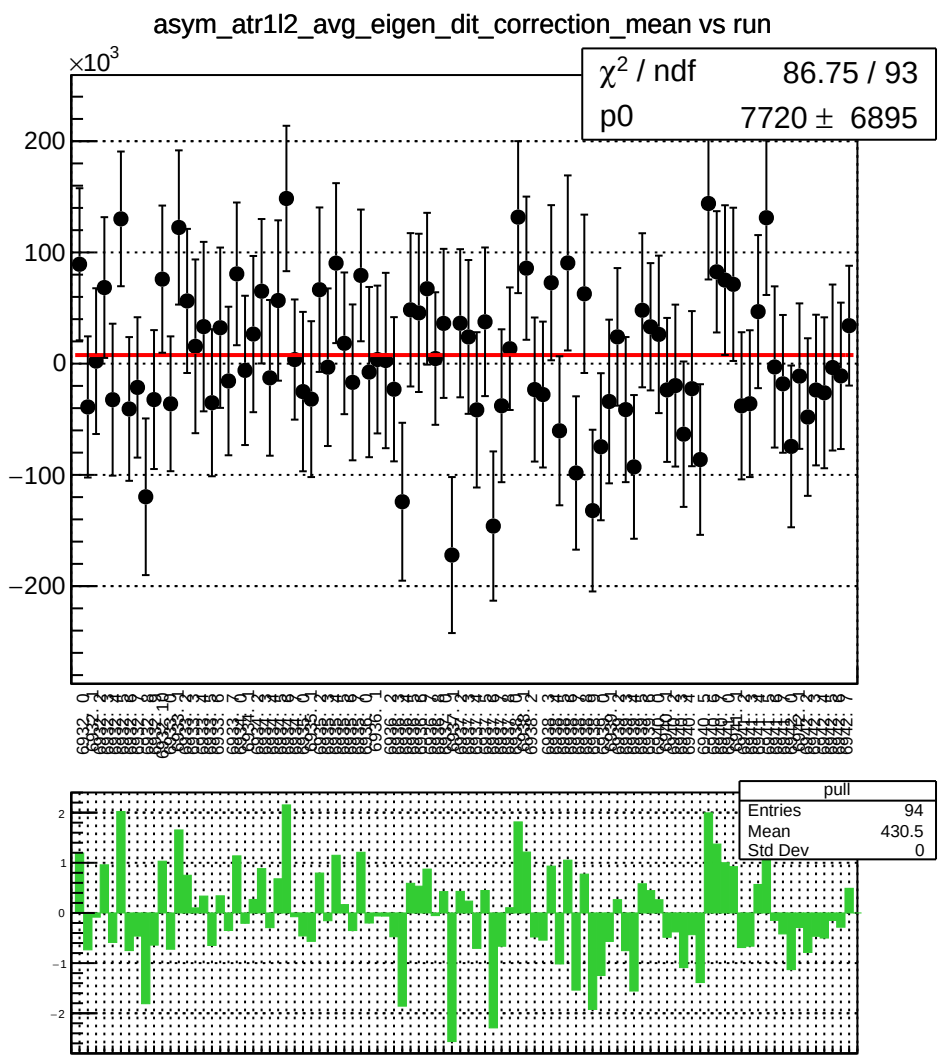

pull1D
Entries 94
Mean −0.008357
Std Dev 0.9606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

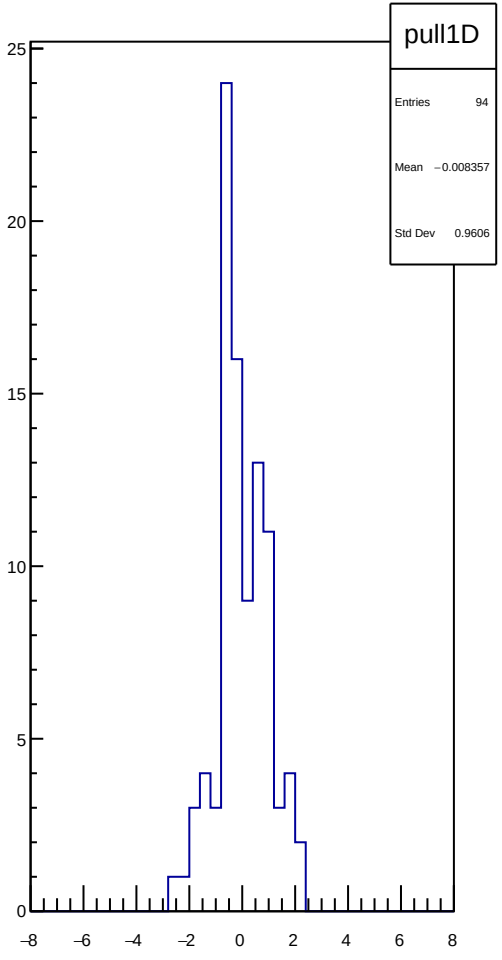

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 5450 / 93
p0 6465 ± 4.875
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

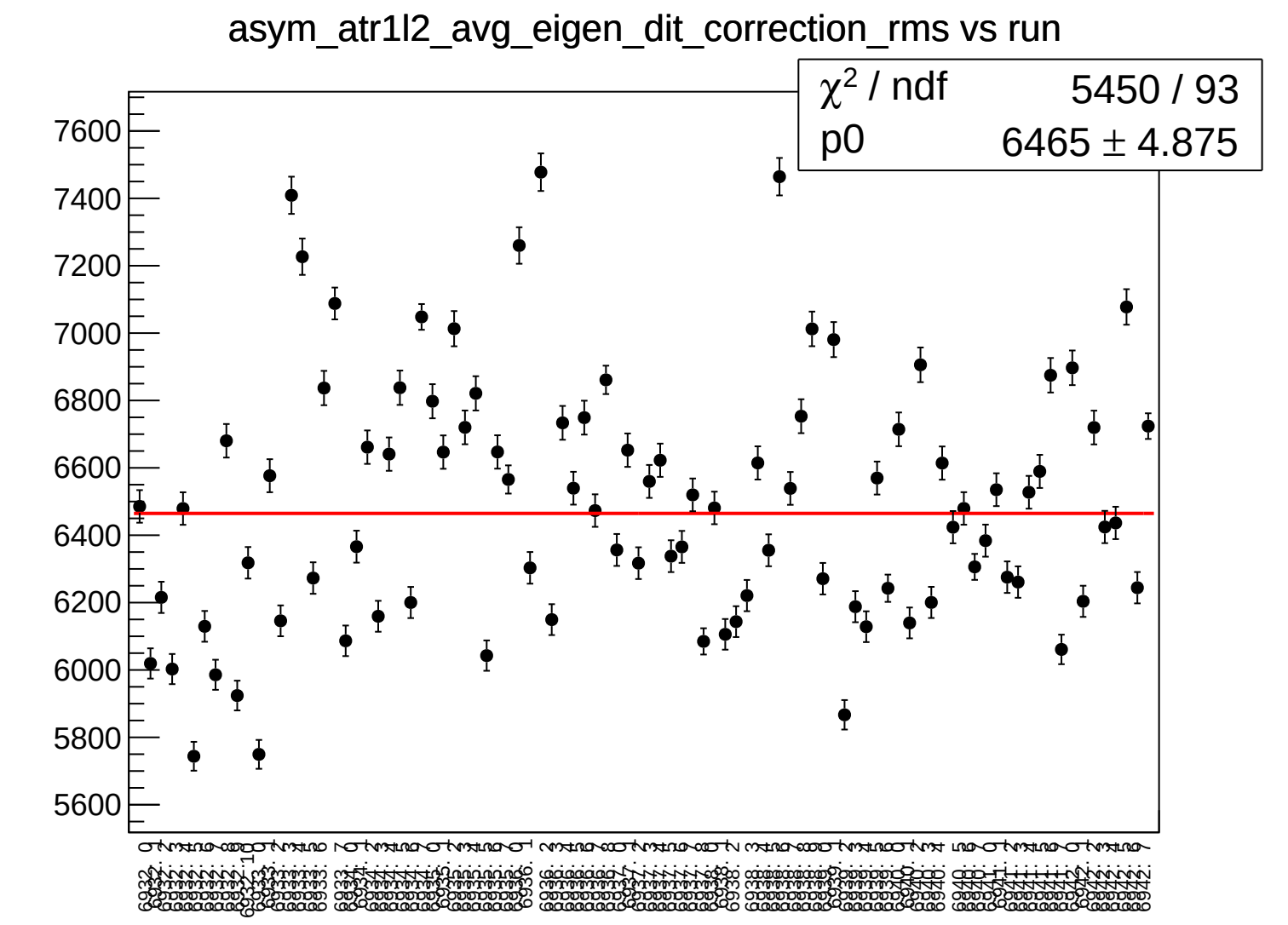

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 85.32 / 93
p0 −2934 ± 2036
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −248.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

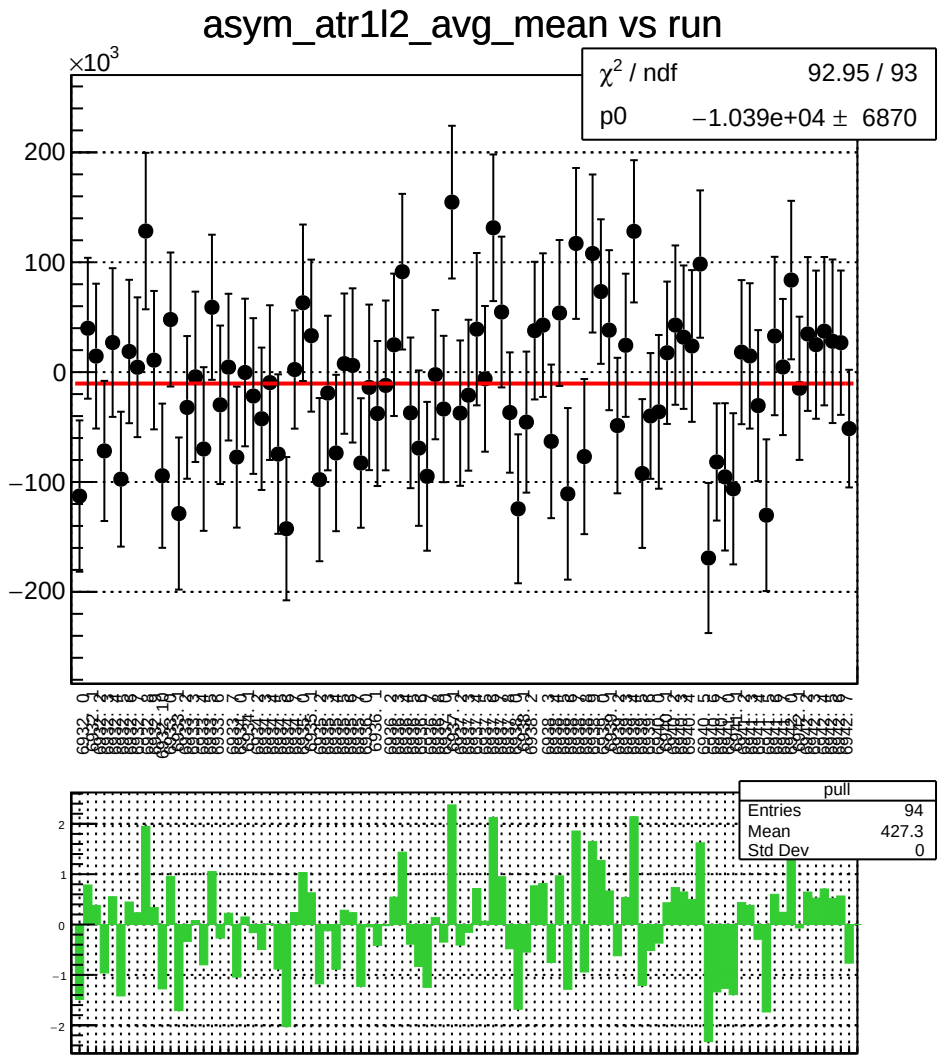

pull1D
Entries 94
Mean 0.003109
Std Dev 0.9527
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

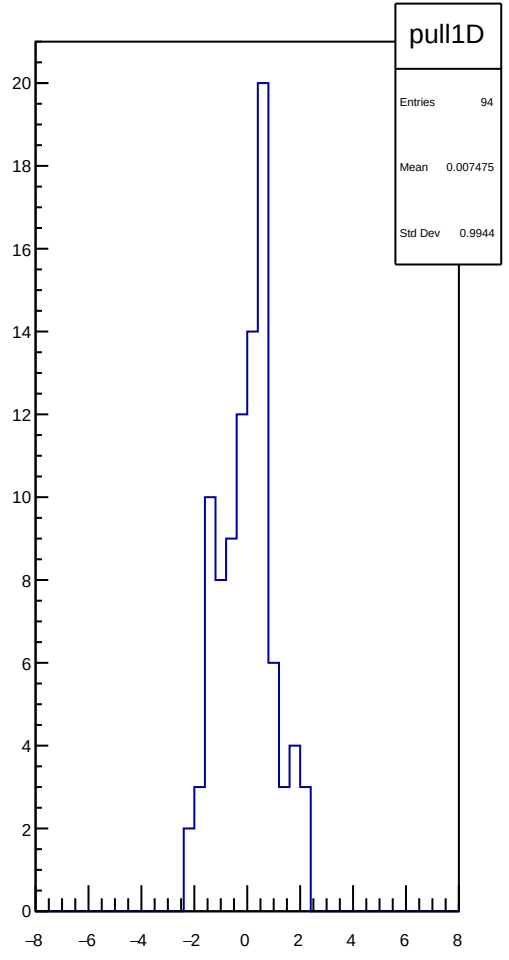

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 141.5 / 93
p0 1912 ± 1.44
2000
1980
1960
1940
1920
1900
1880
1860

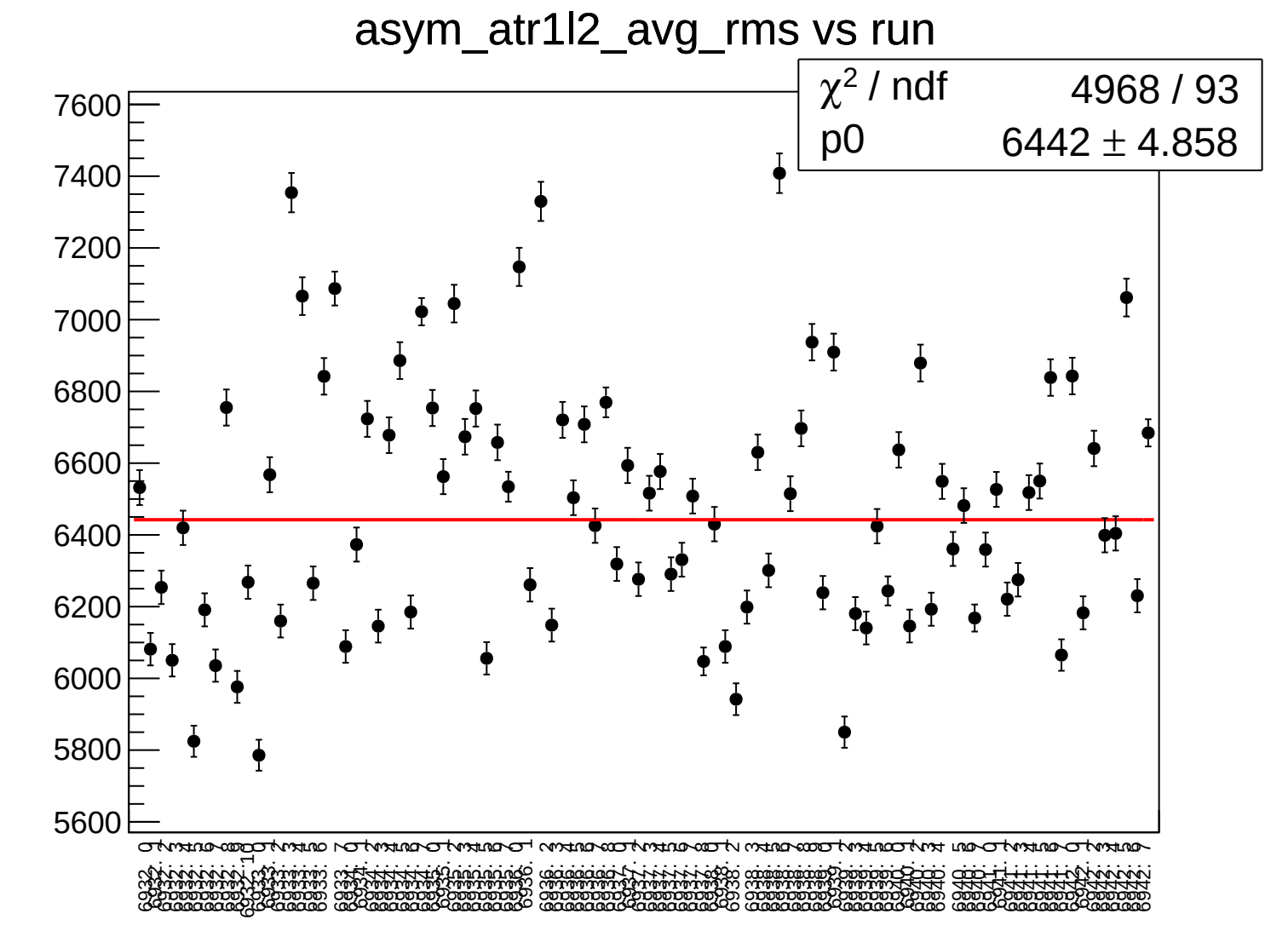

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 7720 ± 6895
200
100
0
−100
−200
pull
Entries 94
Mean 430.5
Std Dev 0
2
1
0
−1
−2

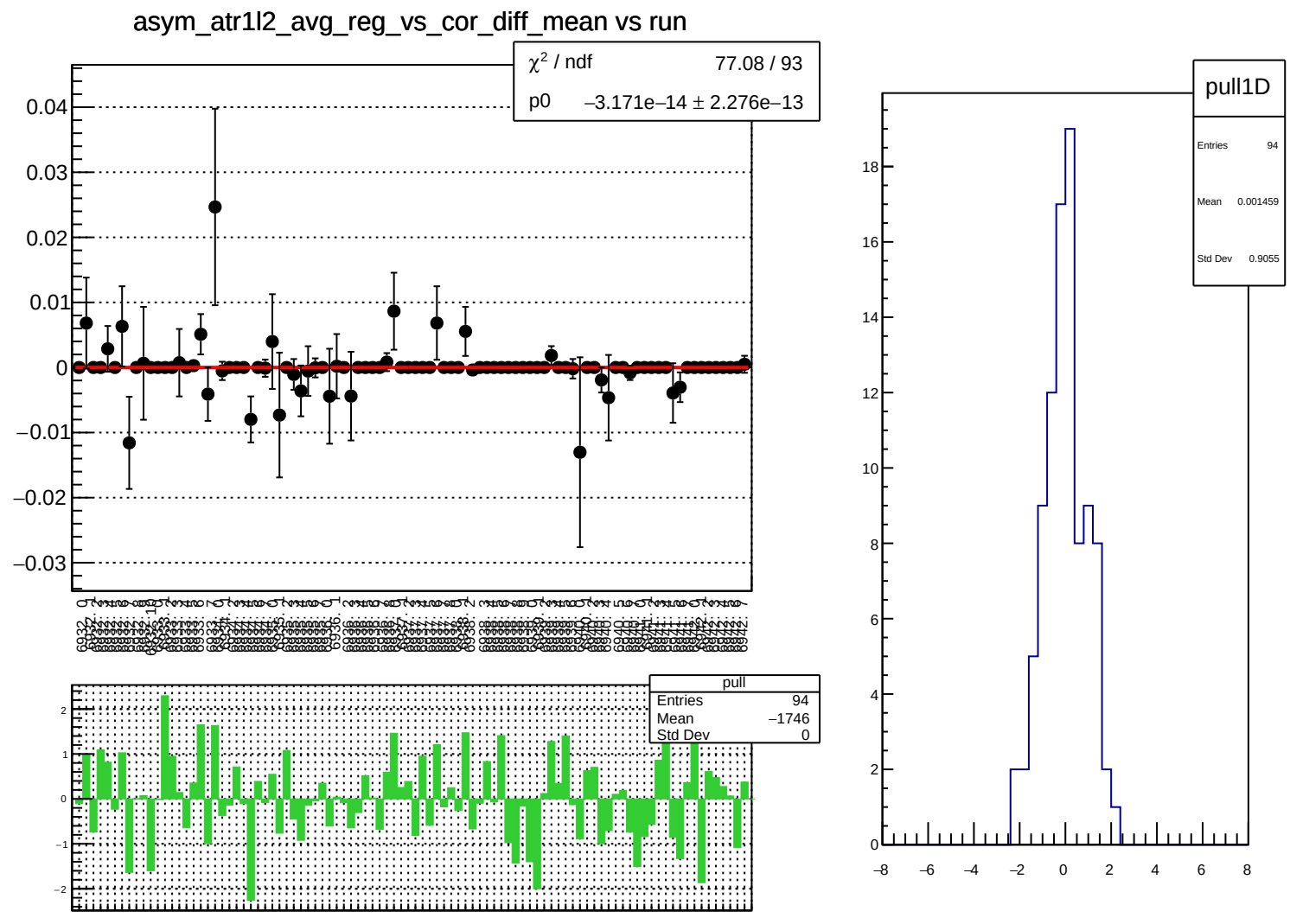

pull1D
Entries 94
Mean −0.008357
Std Dev 0.9606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

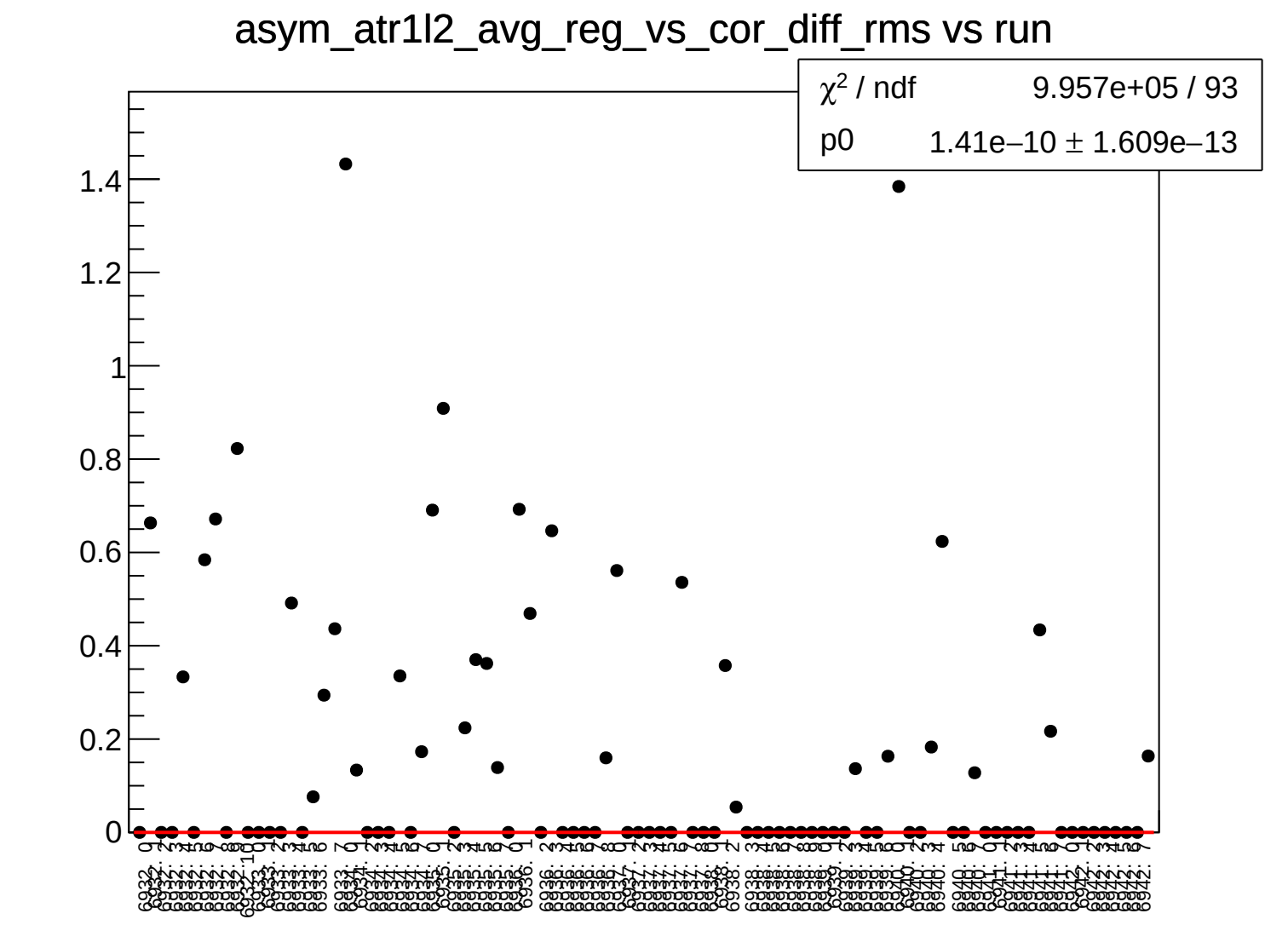

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5450 / 93
p0 6465 ± 4.875
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

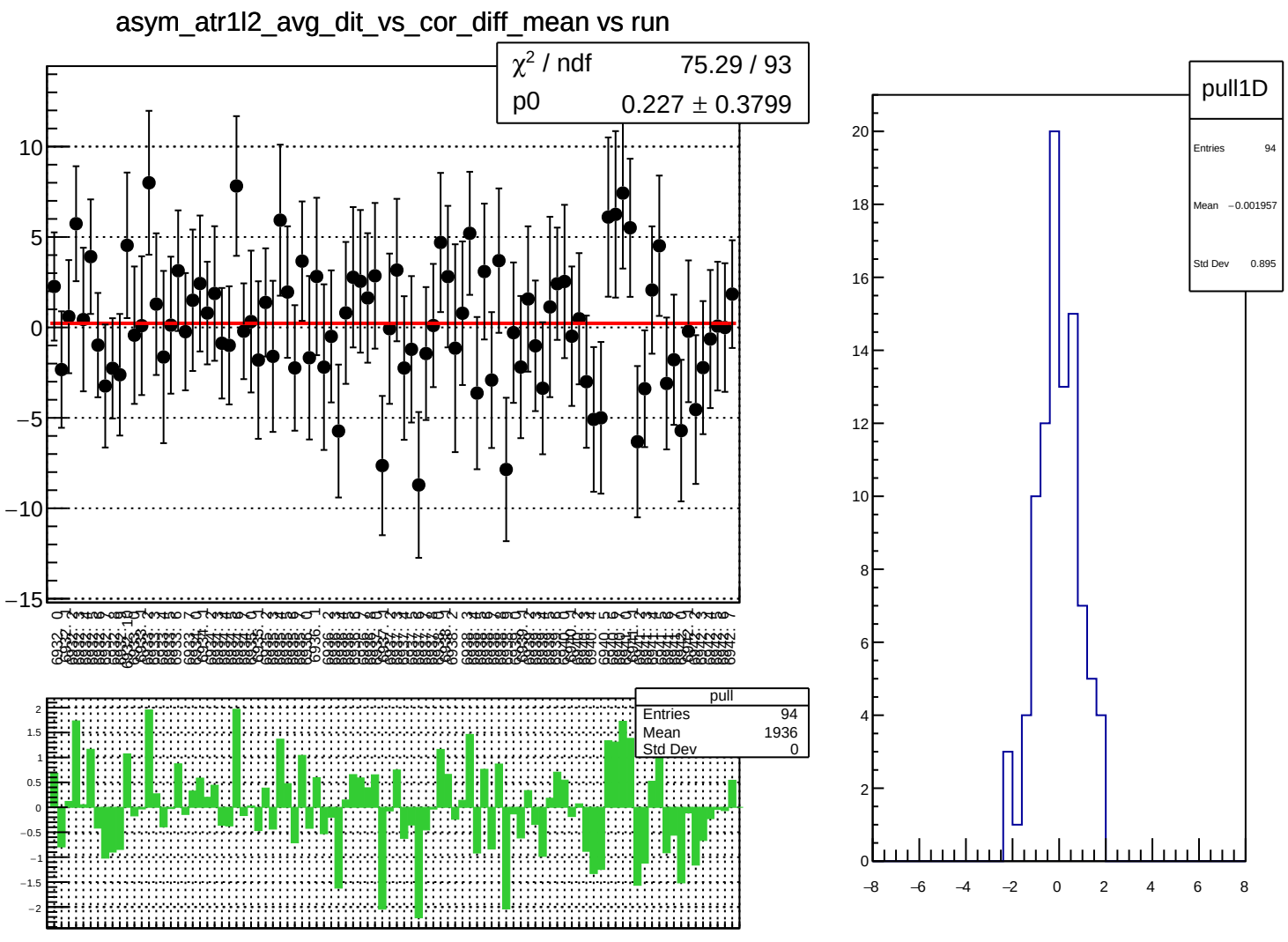

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 92.95 / 93
p0 −1.039e+04 ± 6870
200
100
0
−100
−200
pull
Entries 94
Mean 427.3
Std Dev 0
2
1
0
−1
−2

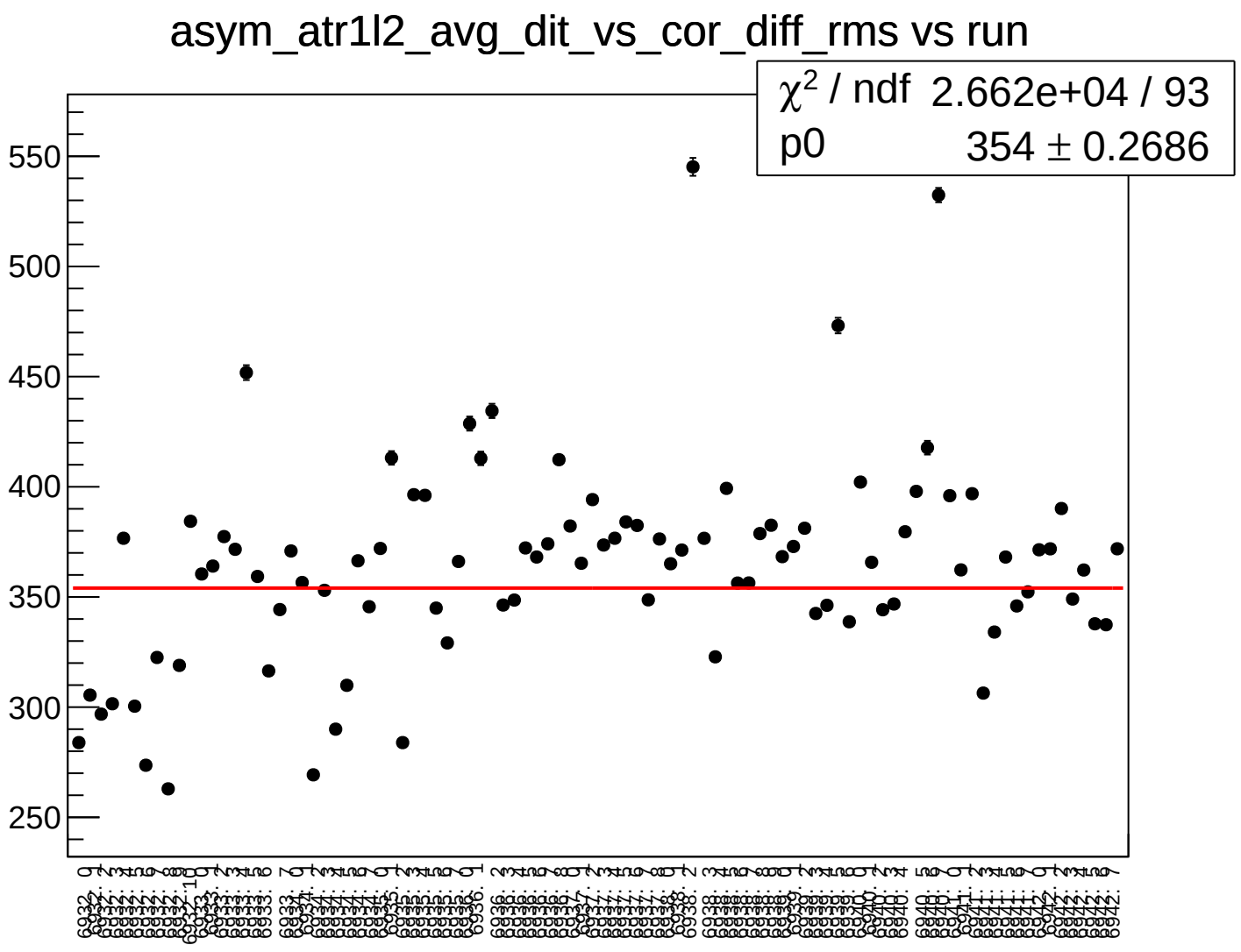

pull1D
Entries 94
Mean 0.007475
Std Dev 0.9944
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

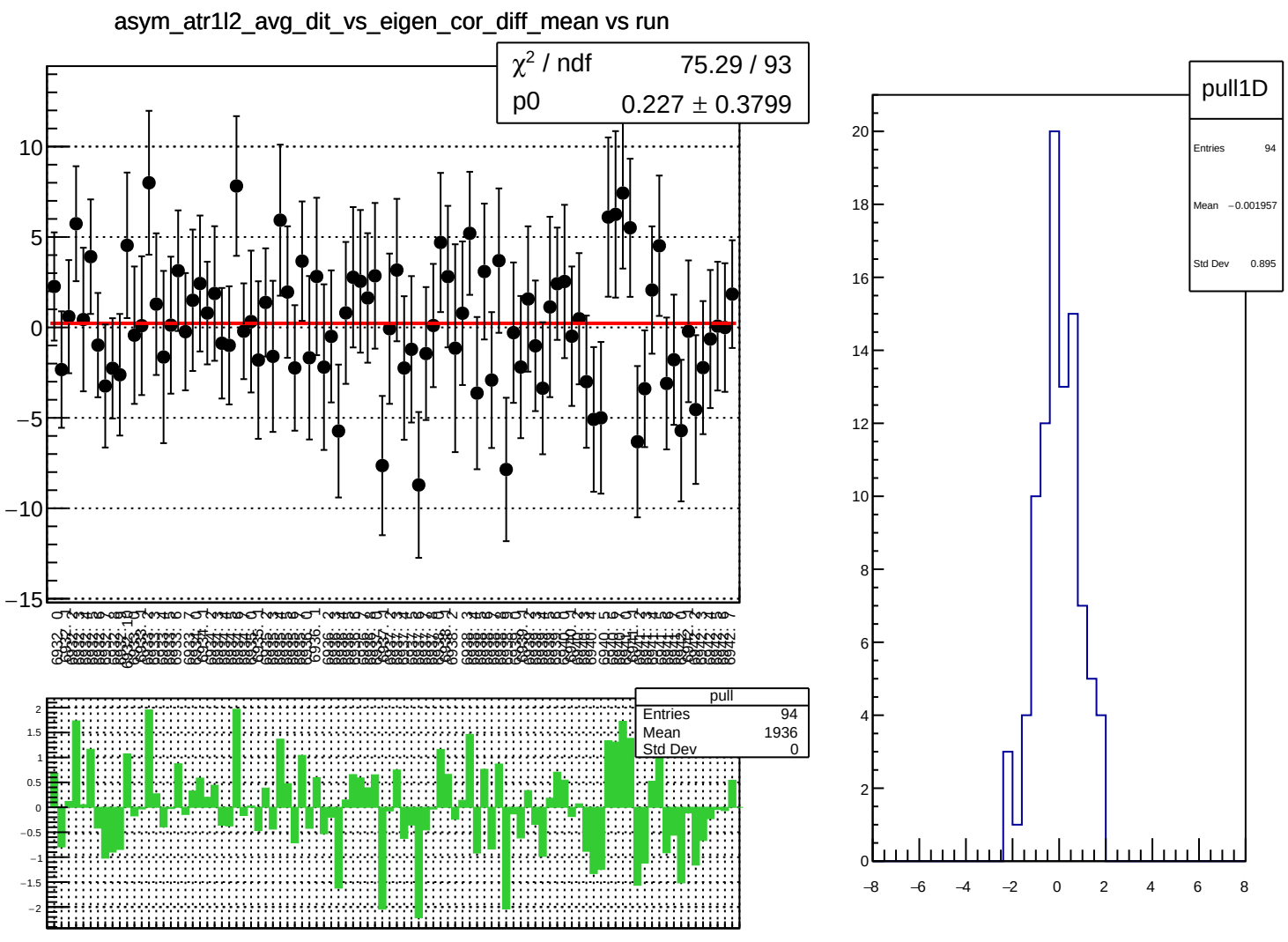

asym_atr1l2_avg_rms vs run
χ^2 / ndf 4968 / 93
p0 6442 ± 4.858
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

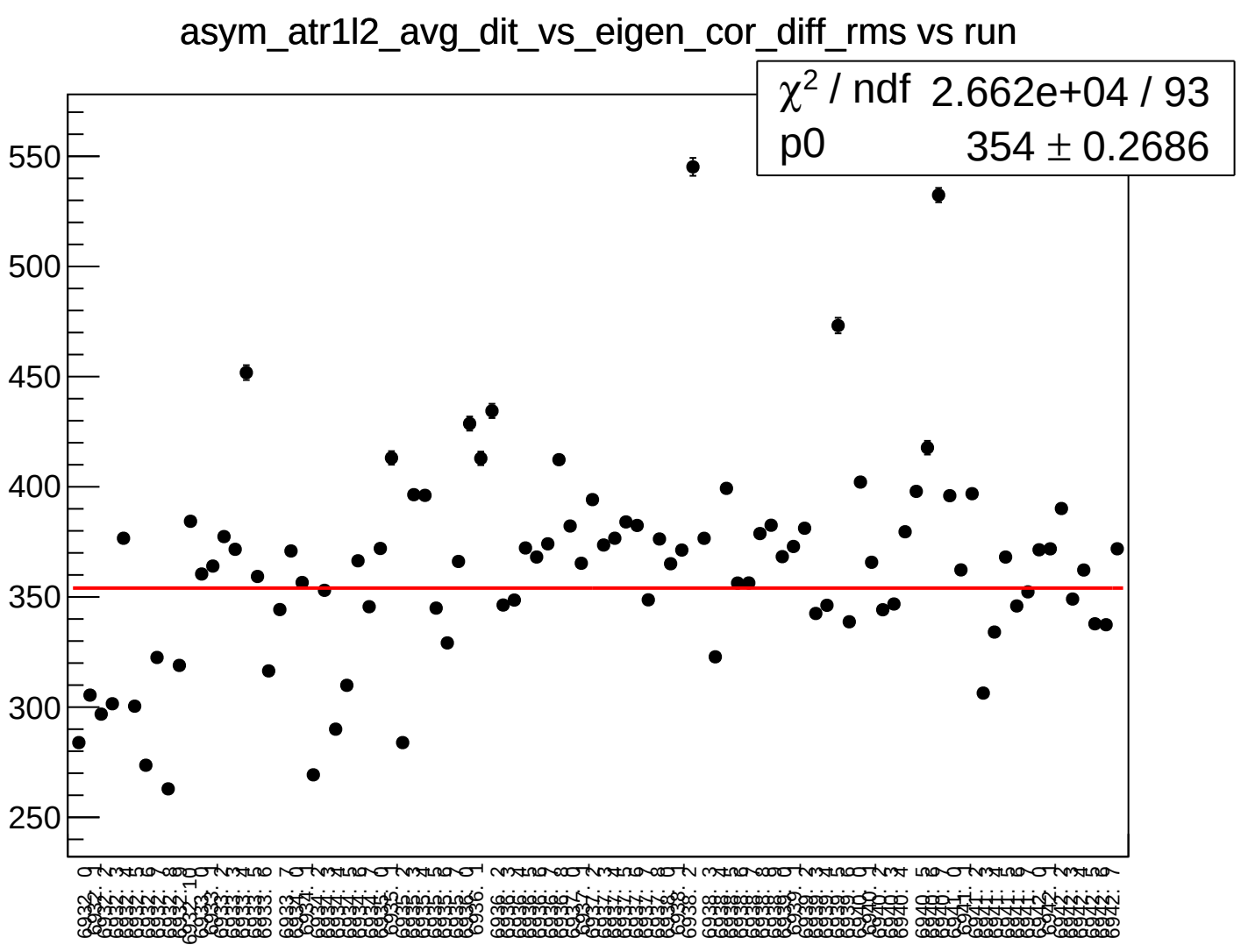

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.08 / 93
p0 −3.171e−14 ± 2.276e−13
pull
Entries 94
Mean −1746
Std Dev 0
pull1D
Entries 94
Mean 0.001459
Std Dev 0.9055

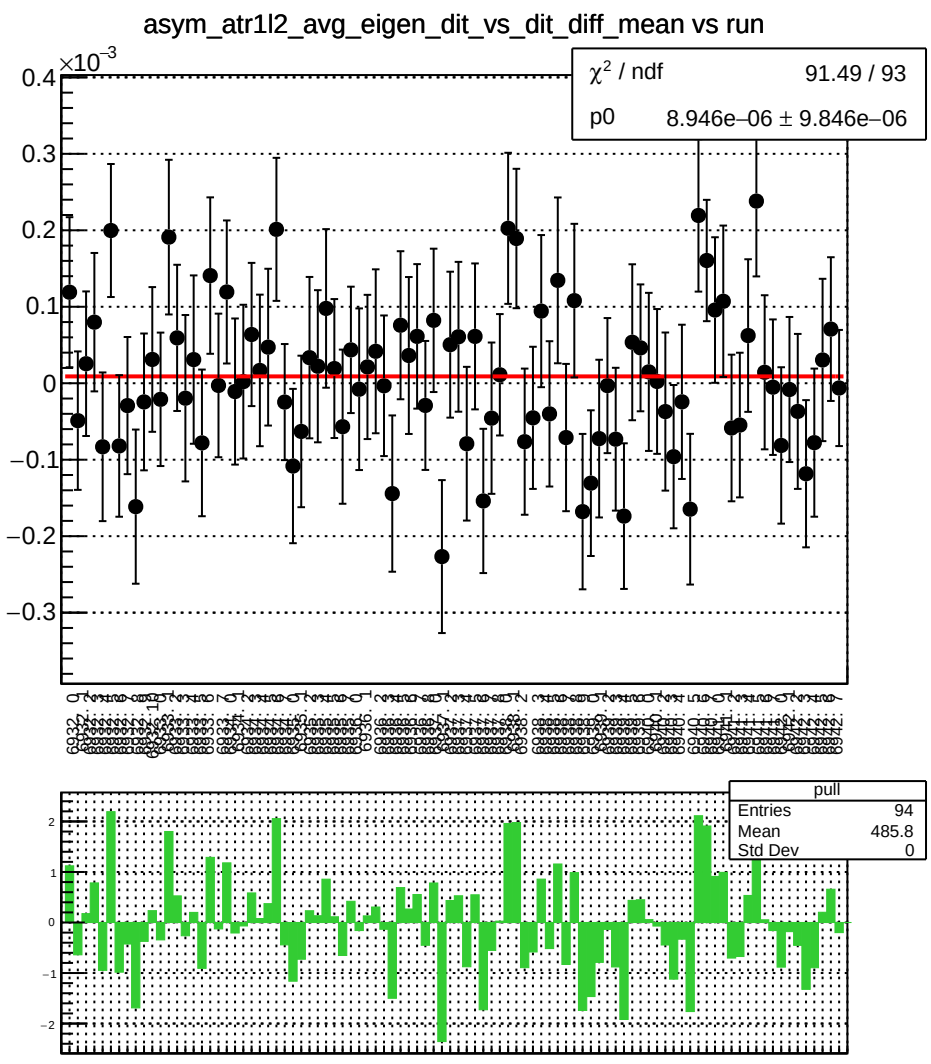

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.957e+05 / 93
p0 1.41e−10 ± 1.609e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

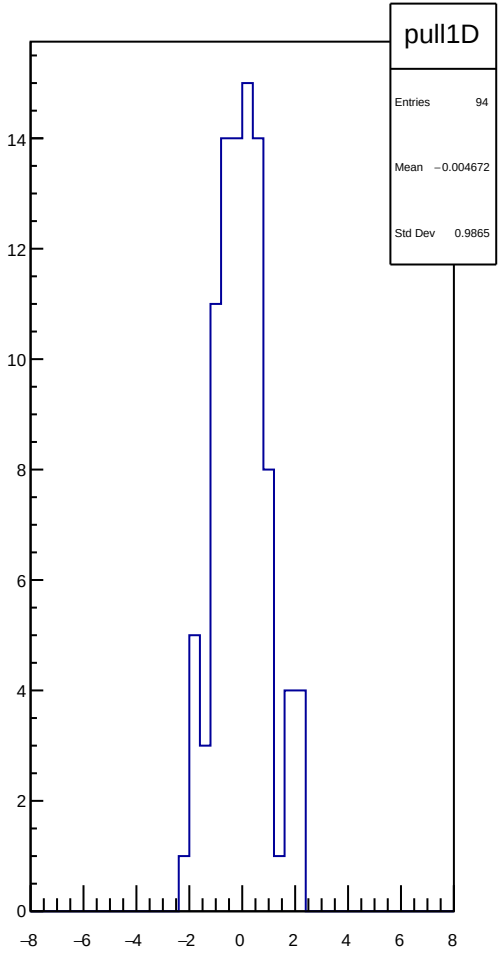

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.29 / 93
p0 0.227 ± 0.3799
pull
Entries 94
Mean 1936
Std Dev 0
pull1D
Entries 94
Mean −0.001957
Std Dev 0.895

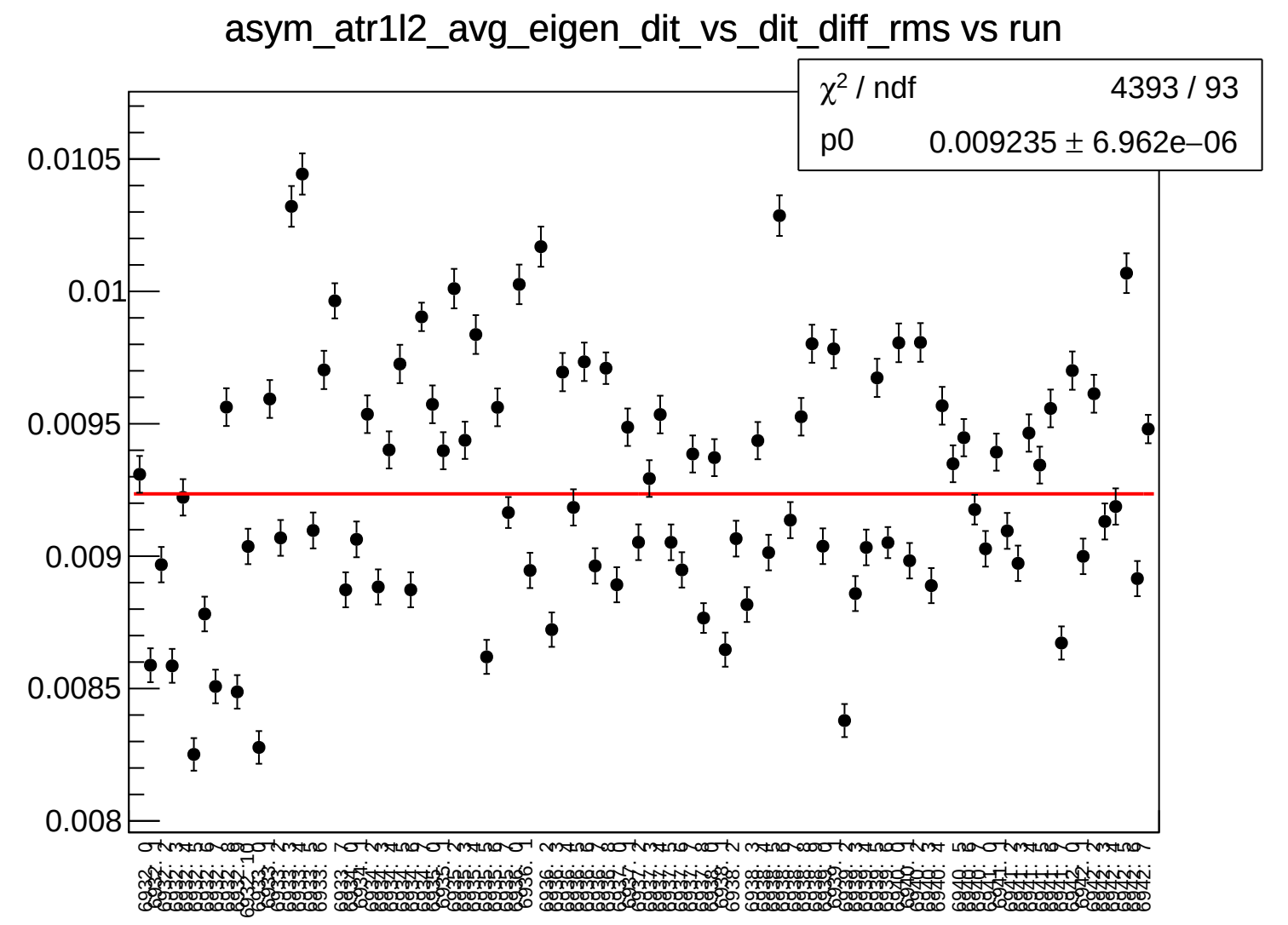

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.662e+04 / 93
p0 354 ± 0.2686
550
500
450
400
350
300
250

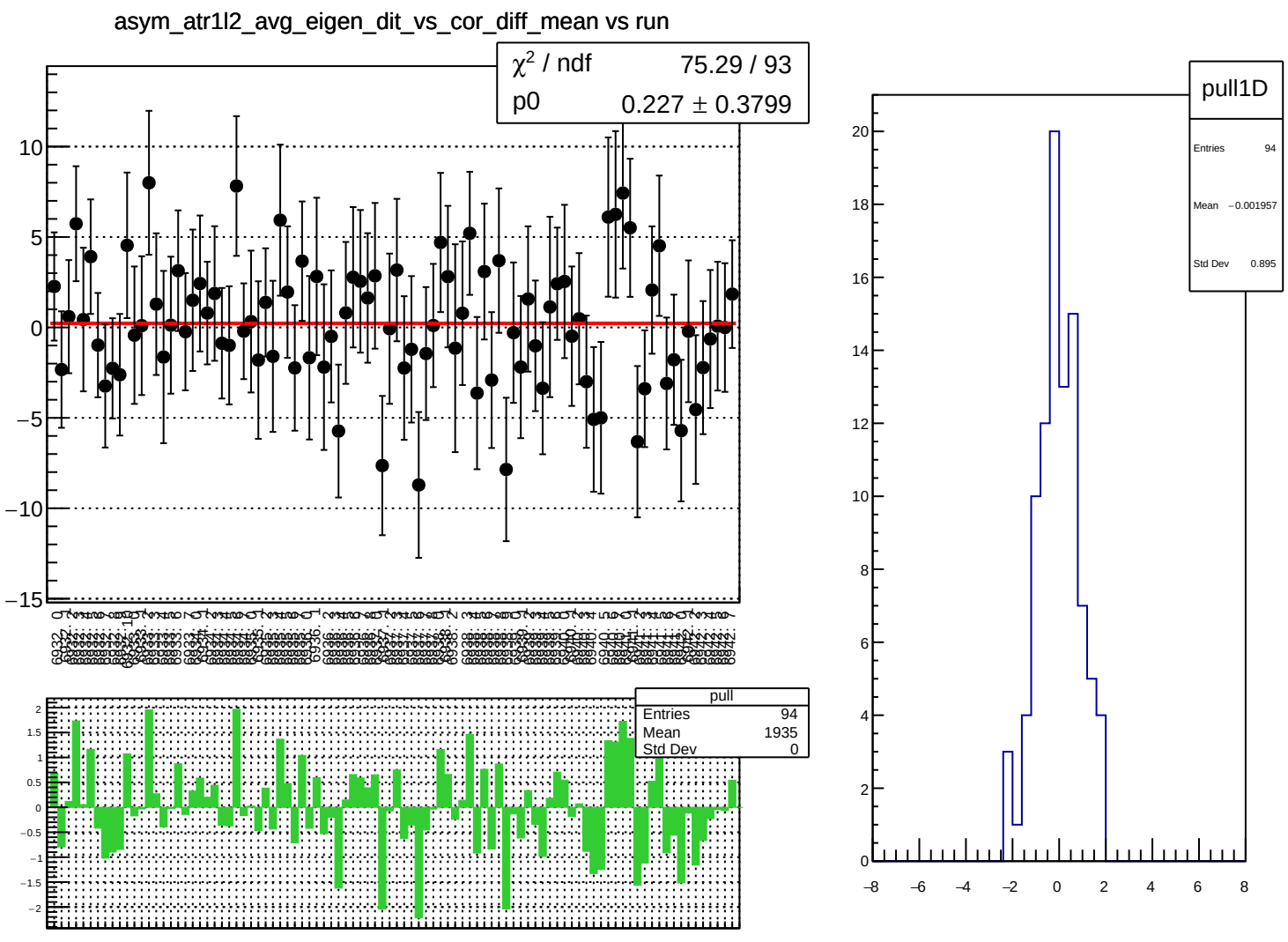

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.29 / 93
p0 0.227 ± 0.3799
pull
Entries 94
Mean 1936
Std Dev 0
pull1D
Entries 94
Mean −0.001957
Std Dev 0.895

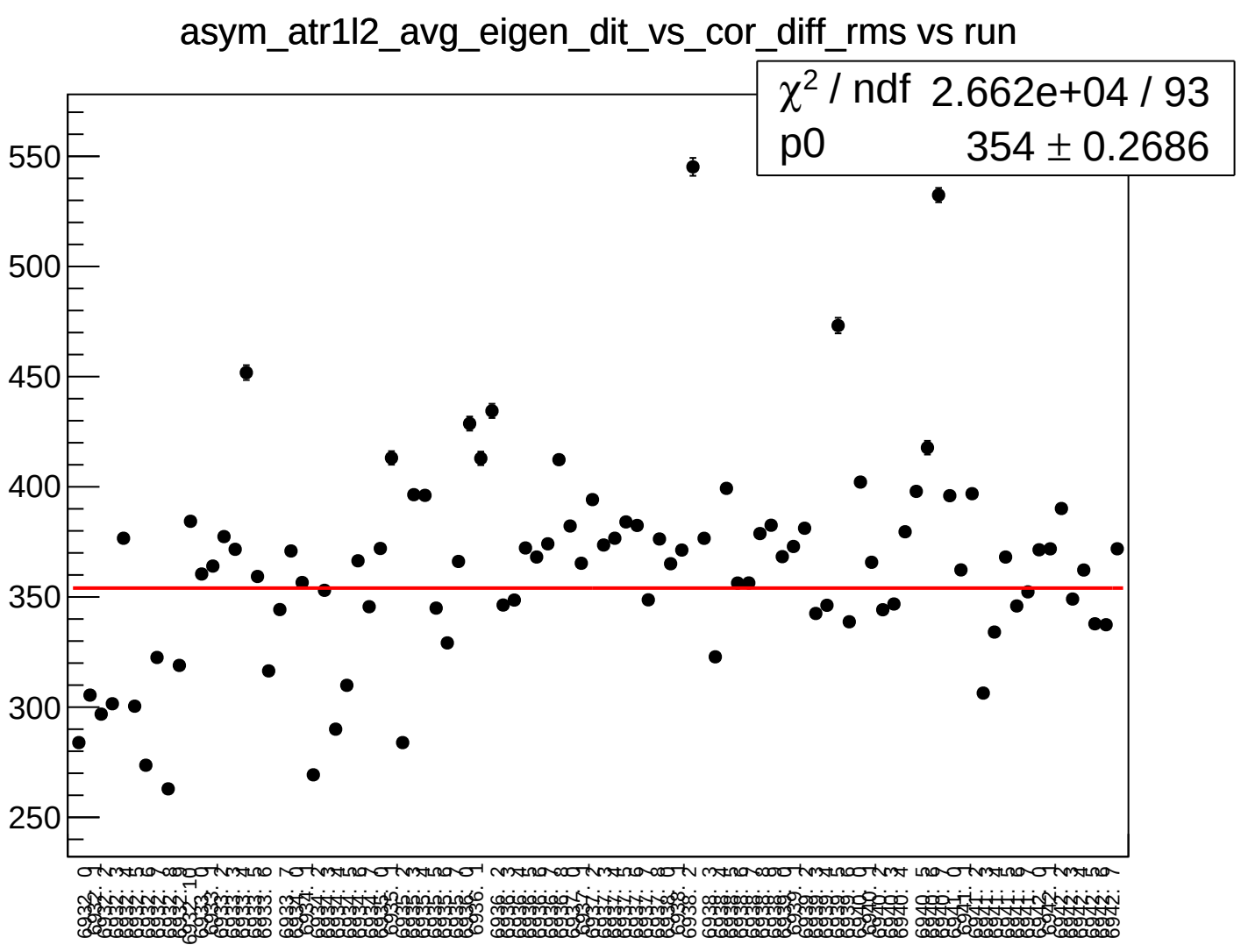

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.662e+04 / 93
p0 354 ± 0.2686
550
500
450
400
350
300
250

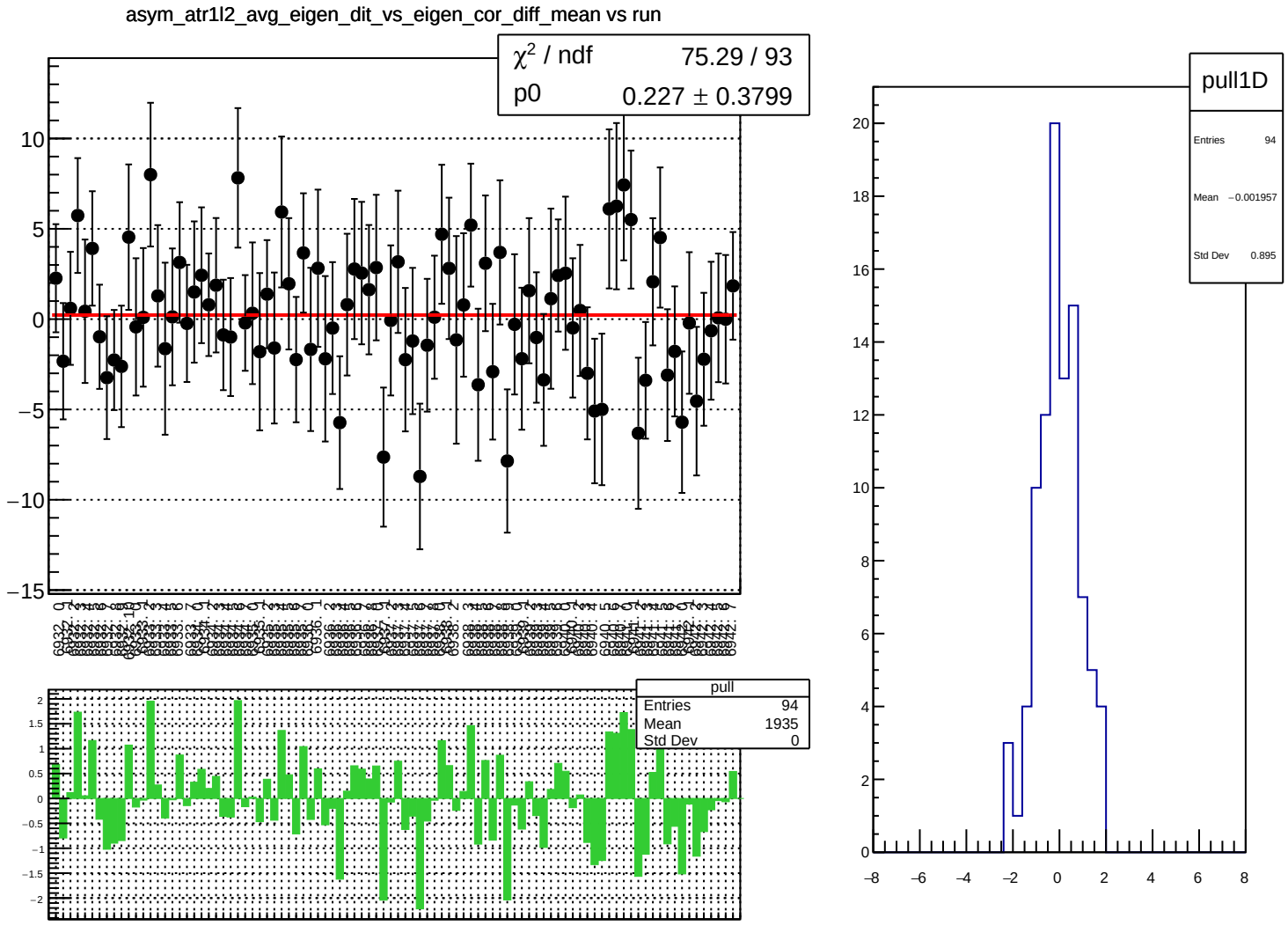

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.49 / 93
p0 8.946e−06 ± 9.846e−06
pull
Entries 94
Mean 485.8
Std Dev 0

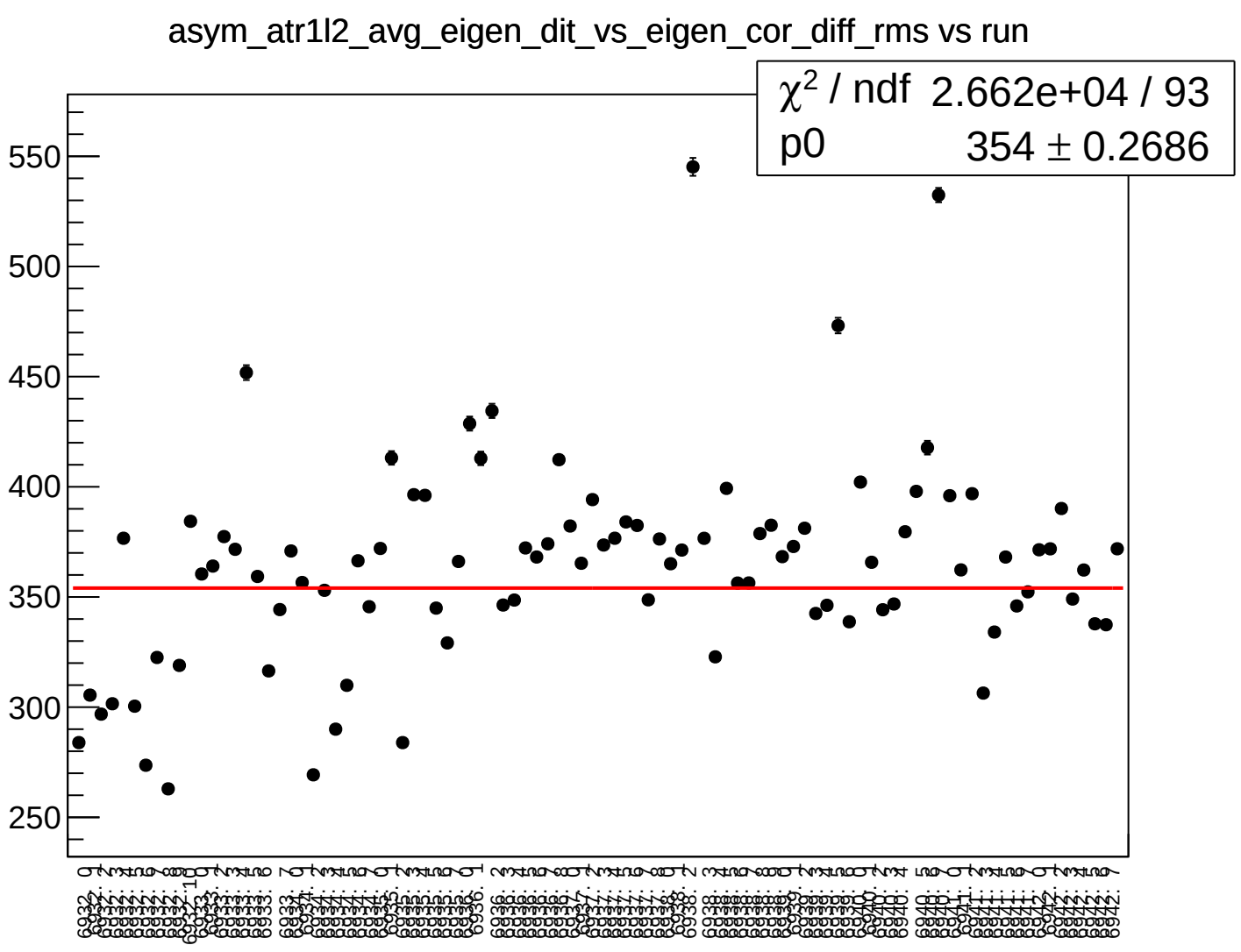

pull1D
Entries 94
Mean −0.004672
Std Dev 0.9865

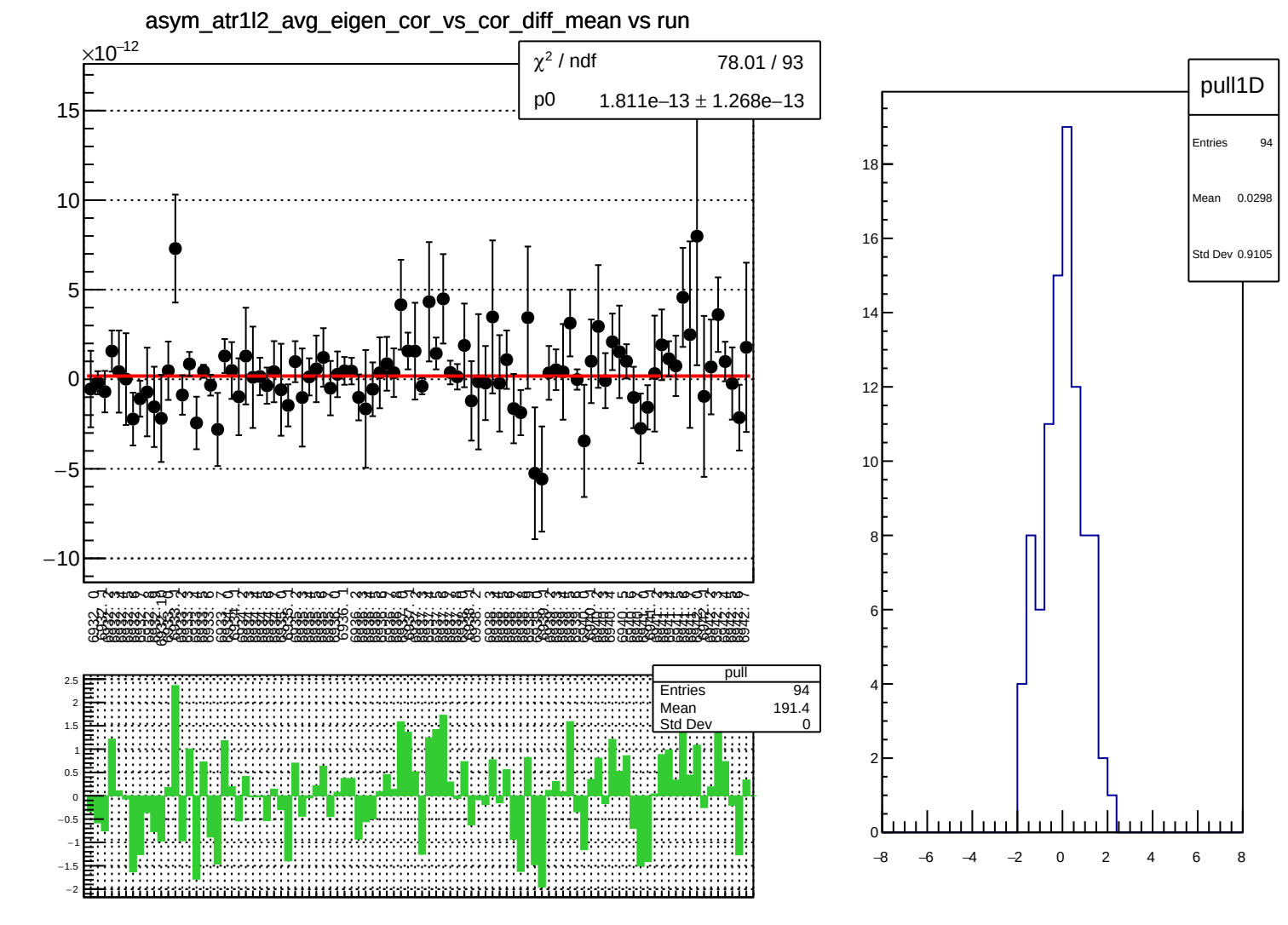

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4393 / 93
p0 0.009235 ± 6.962e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

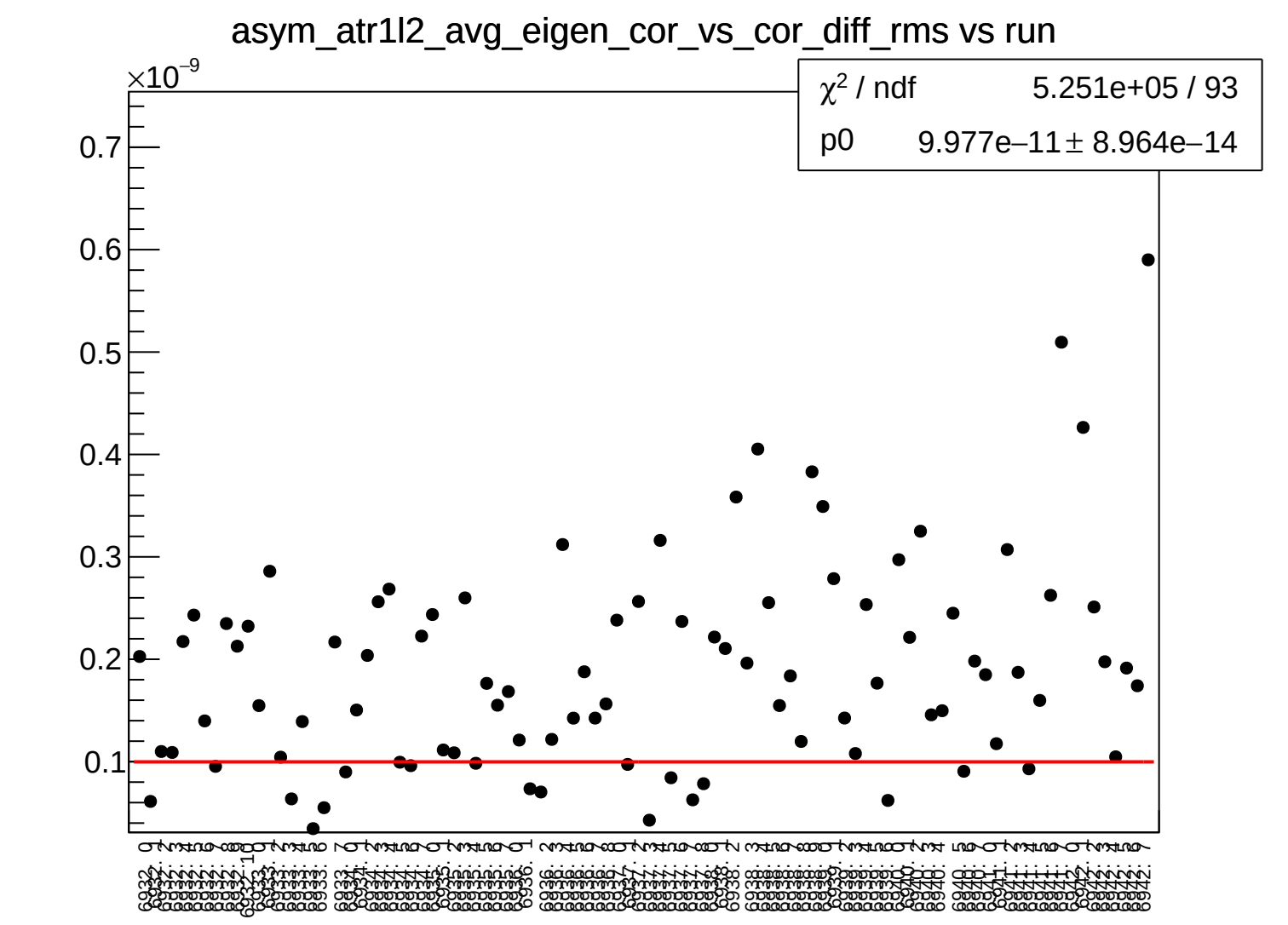

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.29 / 93
p0 0.227 ± 0.3799
pull
Entries 94
Mean 1935
Std Dev 0
pull1D
Entries 94
Mean −0.001957
Std Dev 0.895

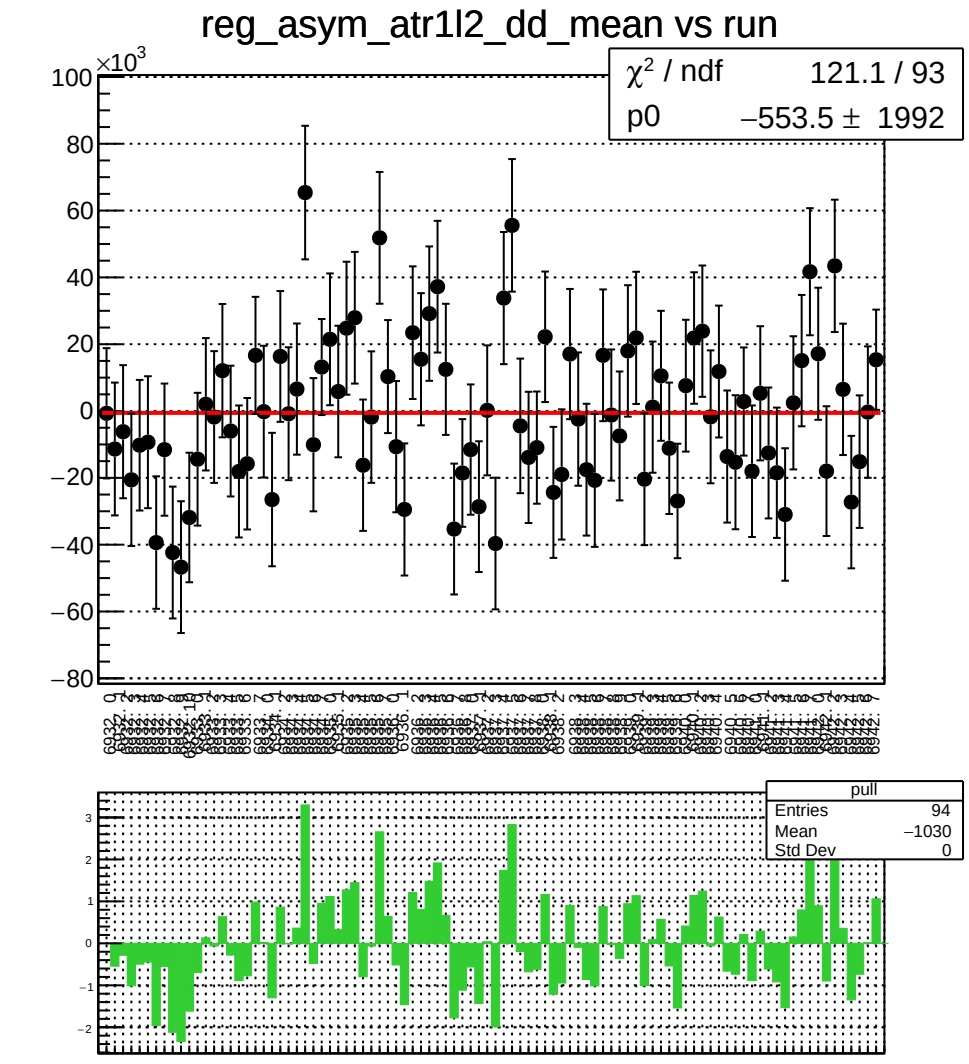

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.662e+04 / 93
p0 354 ± 0.2686
550
500
450
400
350
300
250

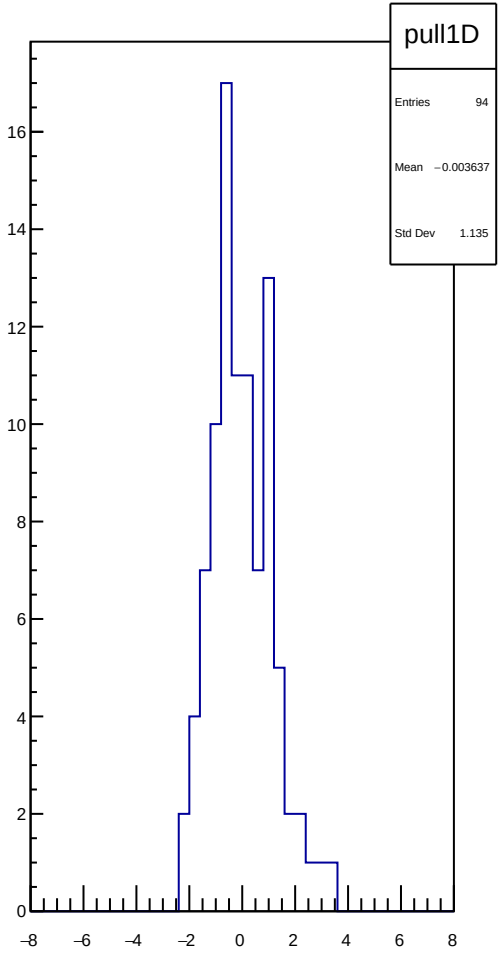

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.29 / 93
p0 0.227 ± 0.3799
pull
Entries 94
Mean 1935
Std Dev 0
pull1D
Entries 94
Mean −0.001957
Std Dev 0.895

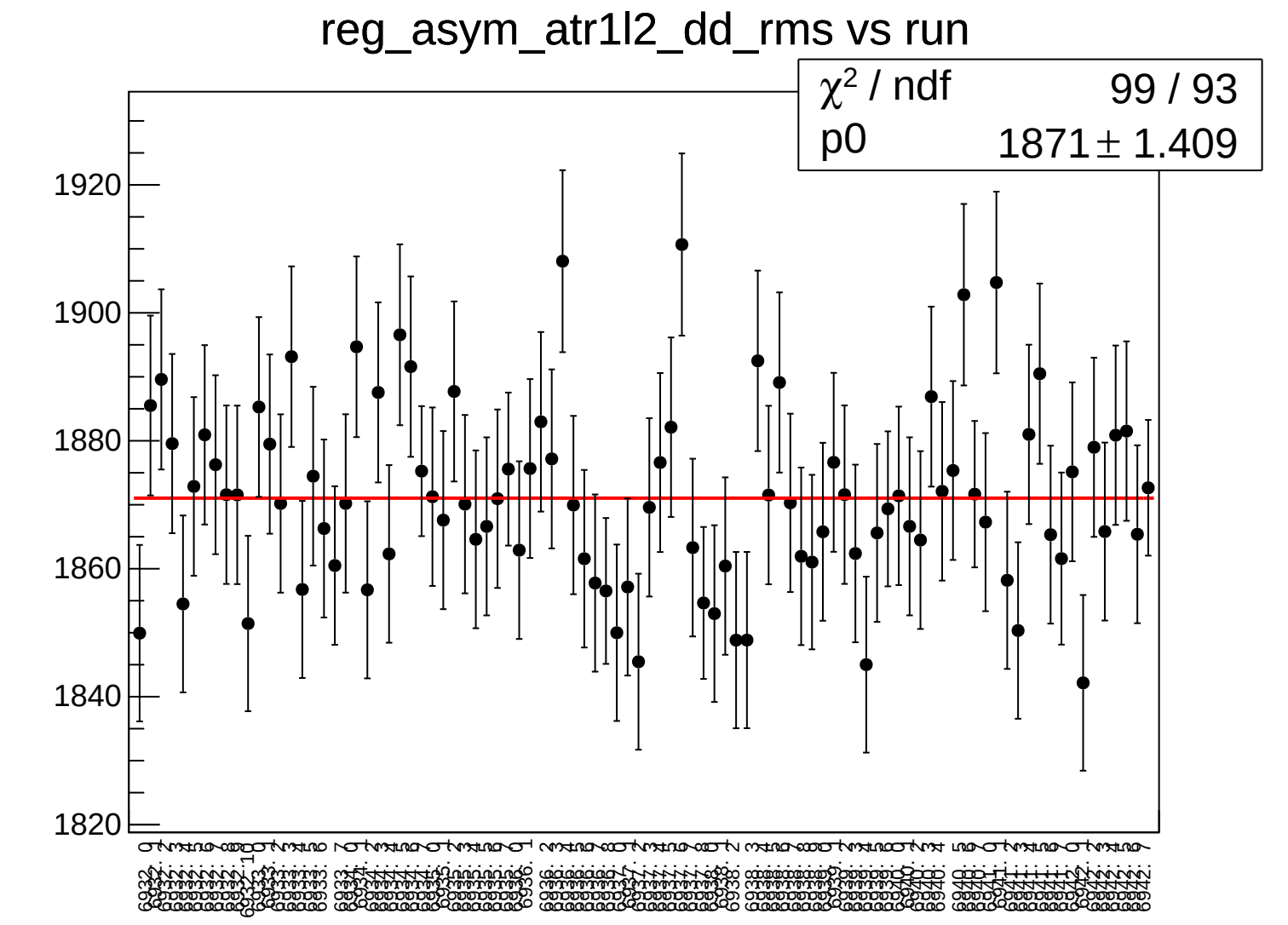

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.662e+04 / 93
p0 354 ± 0.2686
550
500
450
400
350
300
250

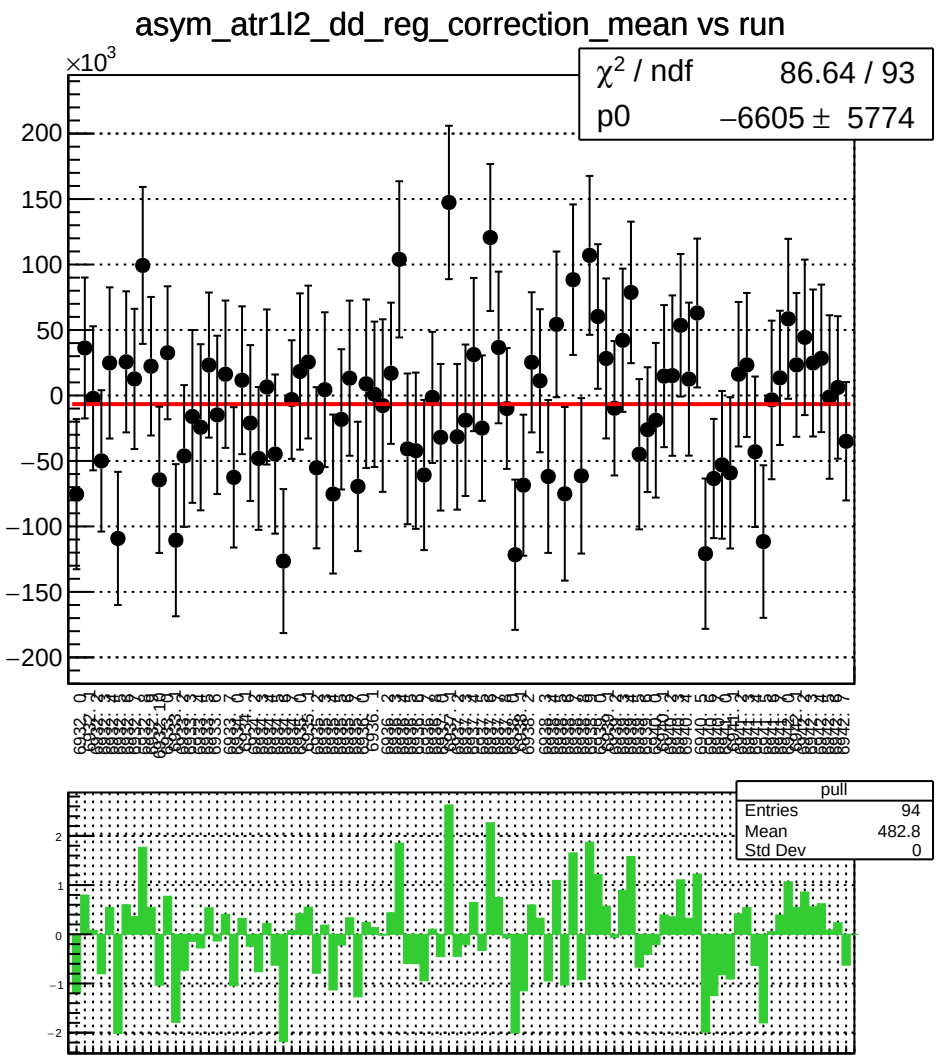

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 78.01 / 93
p0 1.811e−13 ± 1.268e−13
15
10
5
0
−5
−10
pull
Entries 94
Mean 191.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.0298
Std Dev 0.9105
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

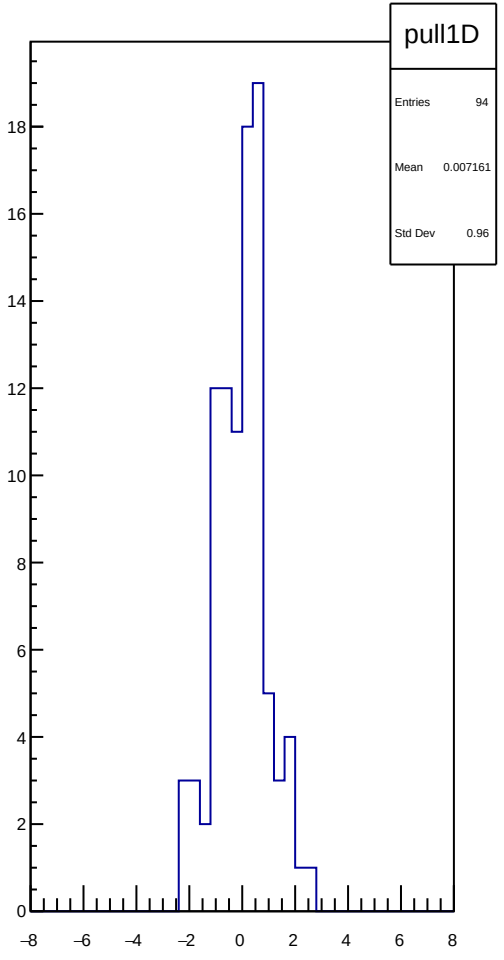

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.251e+05 / 93
p0 9.977e−11 ± 8.964e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

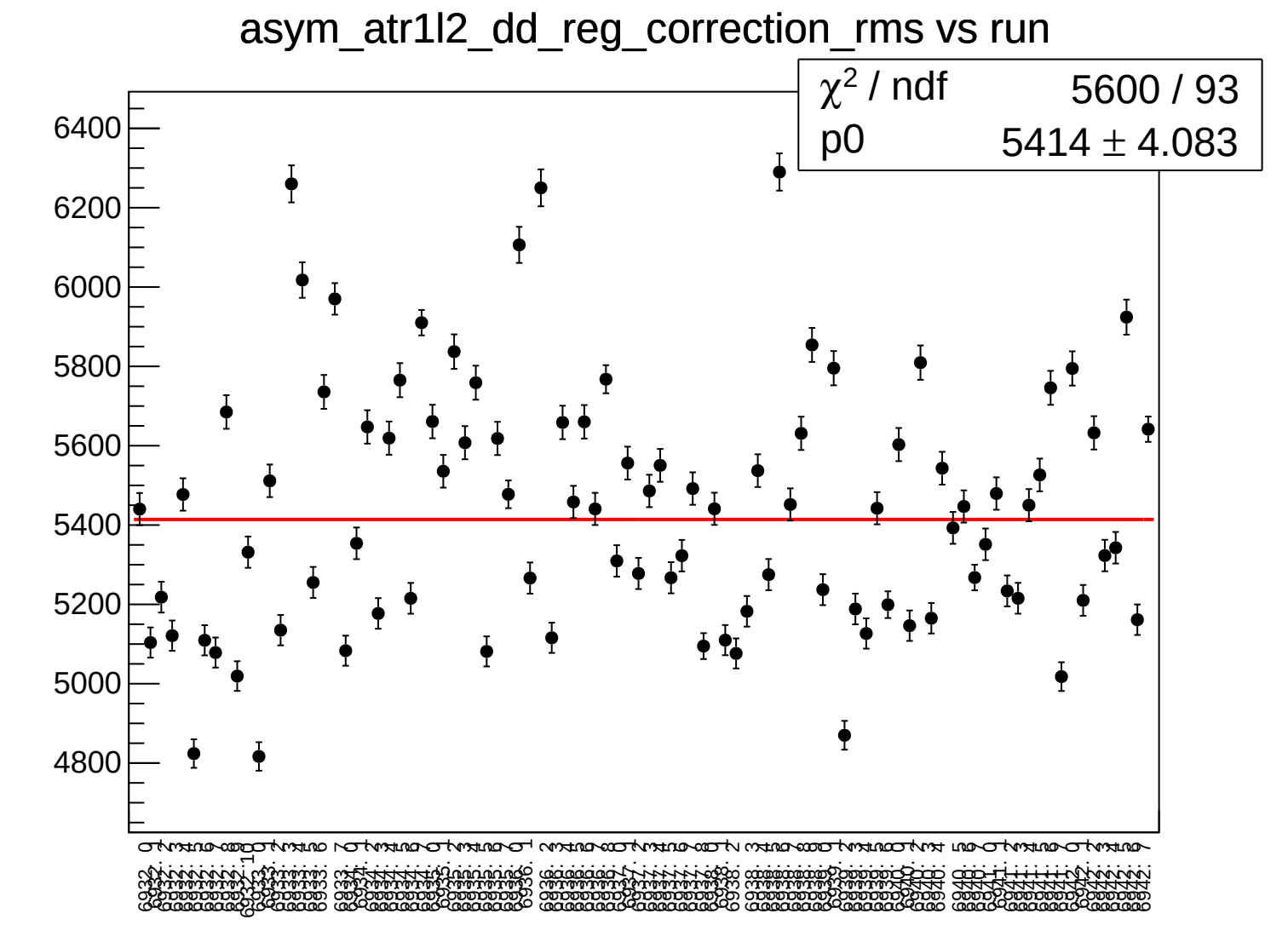

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 121.1 / 93
p0 −553.5 ± 1992
×10³
pull
Entries 94
Mean −1030
Std Dev 0

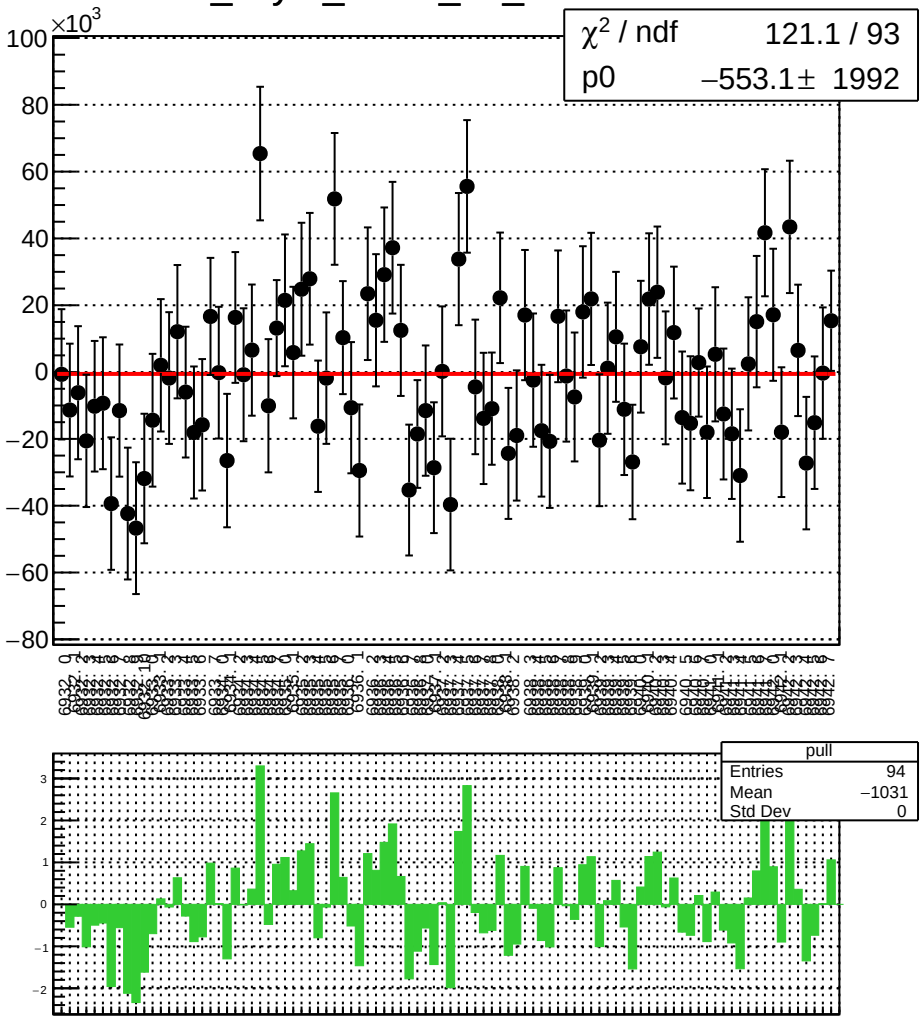

pull1D
Entries 94
Mean −0.003637
Std Dev 1.135

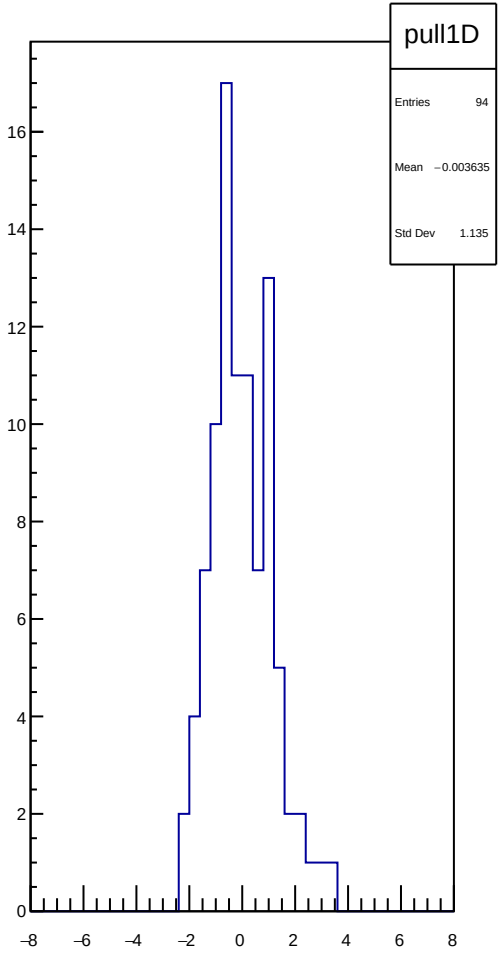

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 99 / 93
p0 1871 ± 1.409
1920
1900
1880
1860
1840
1820

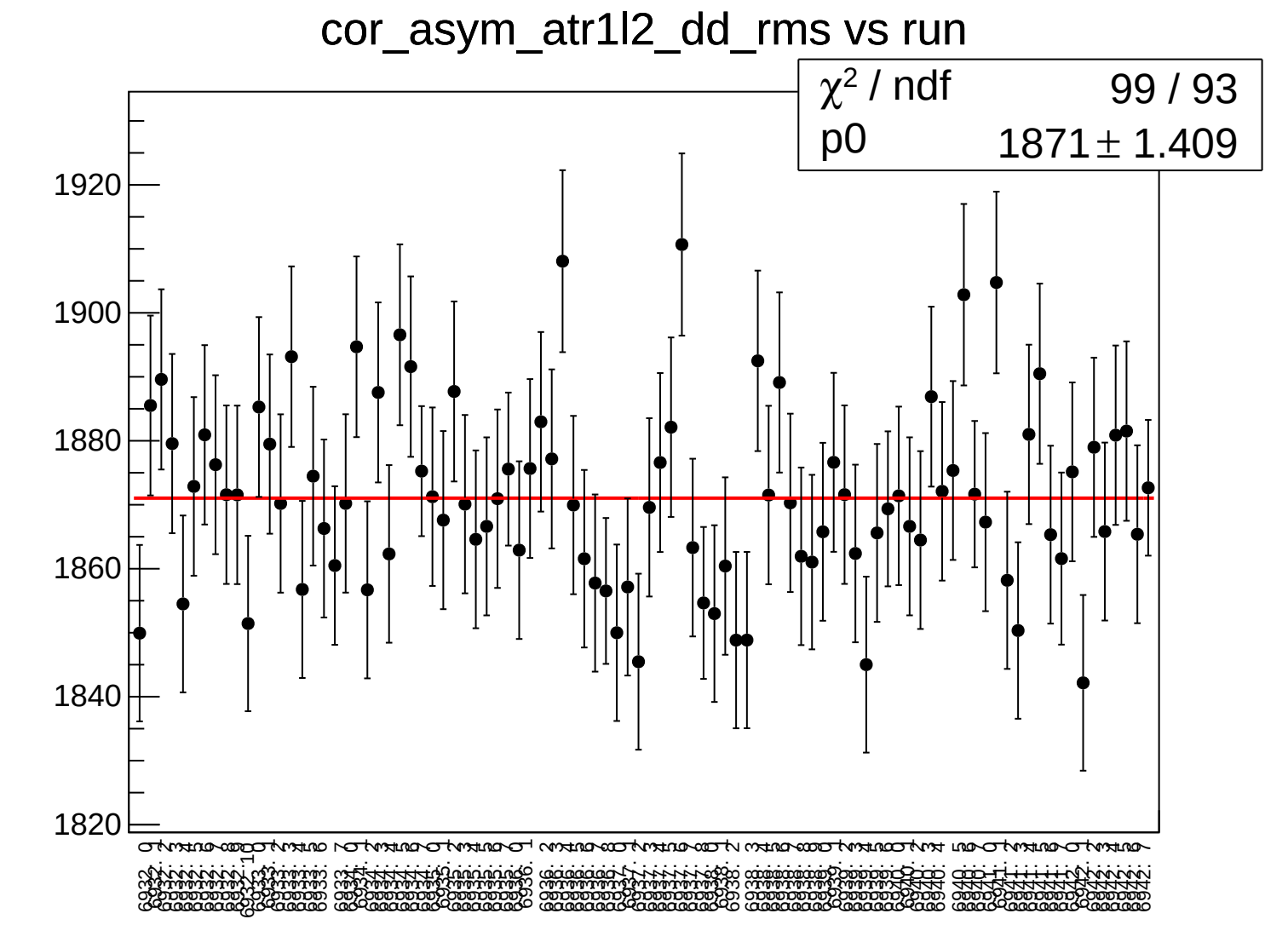

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.64 / 93
p0 −6605 ± 5774
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 482.8
Std Dev 0
2
1
0
−1
−2

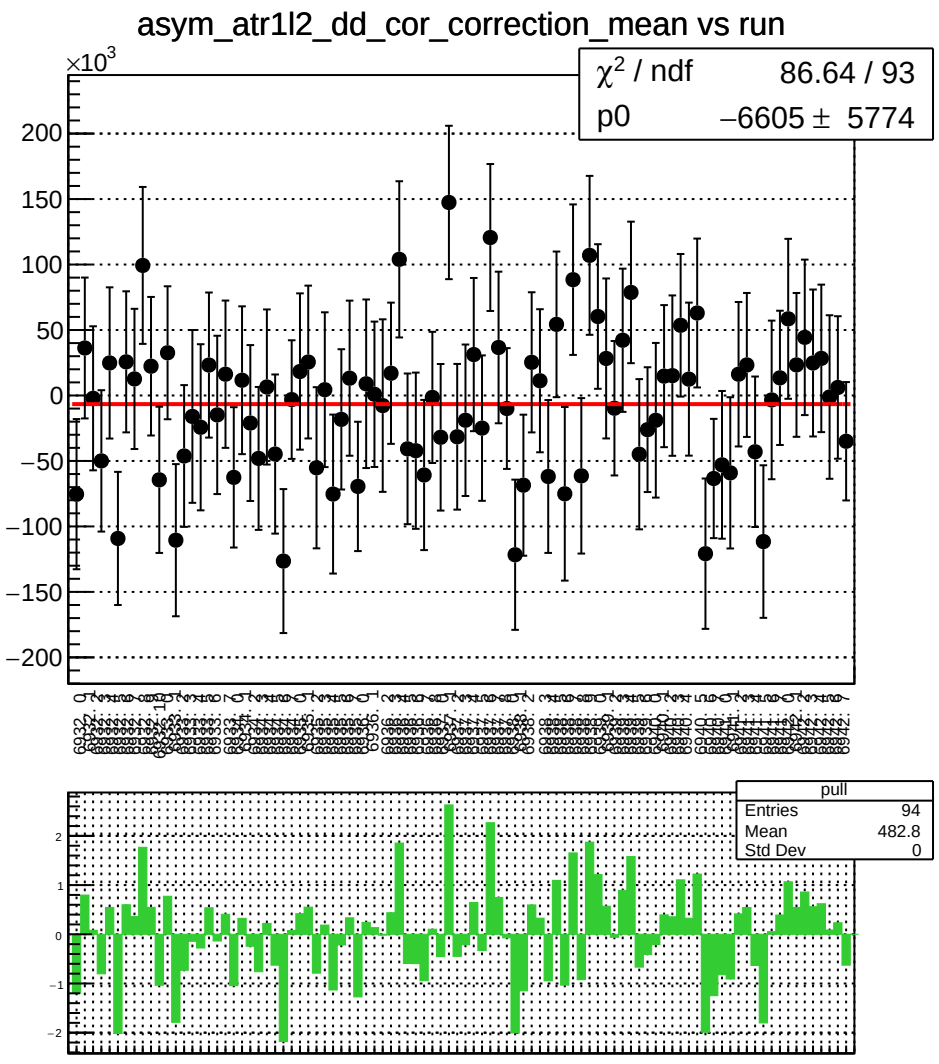

pull1D
Entries 94
Mean 0.007161
Std Dev 0.96
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

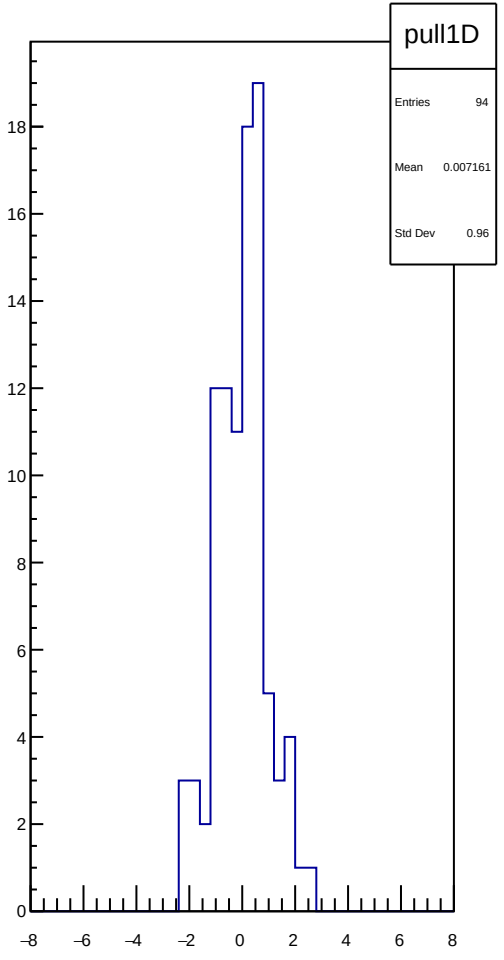

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 5600 / 93
p0 5414 ± 4.083
6400
6200
6000
5800
5600
5400
5200
5000
4800

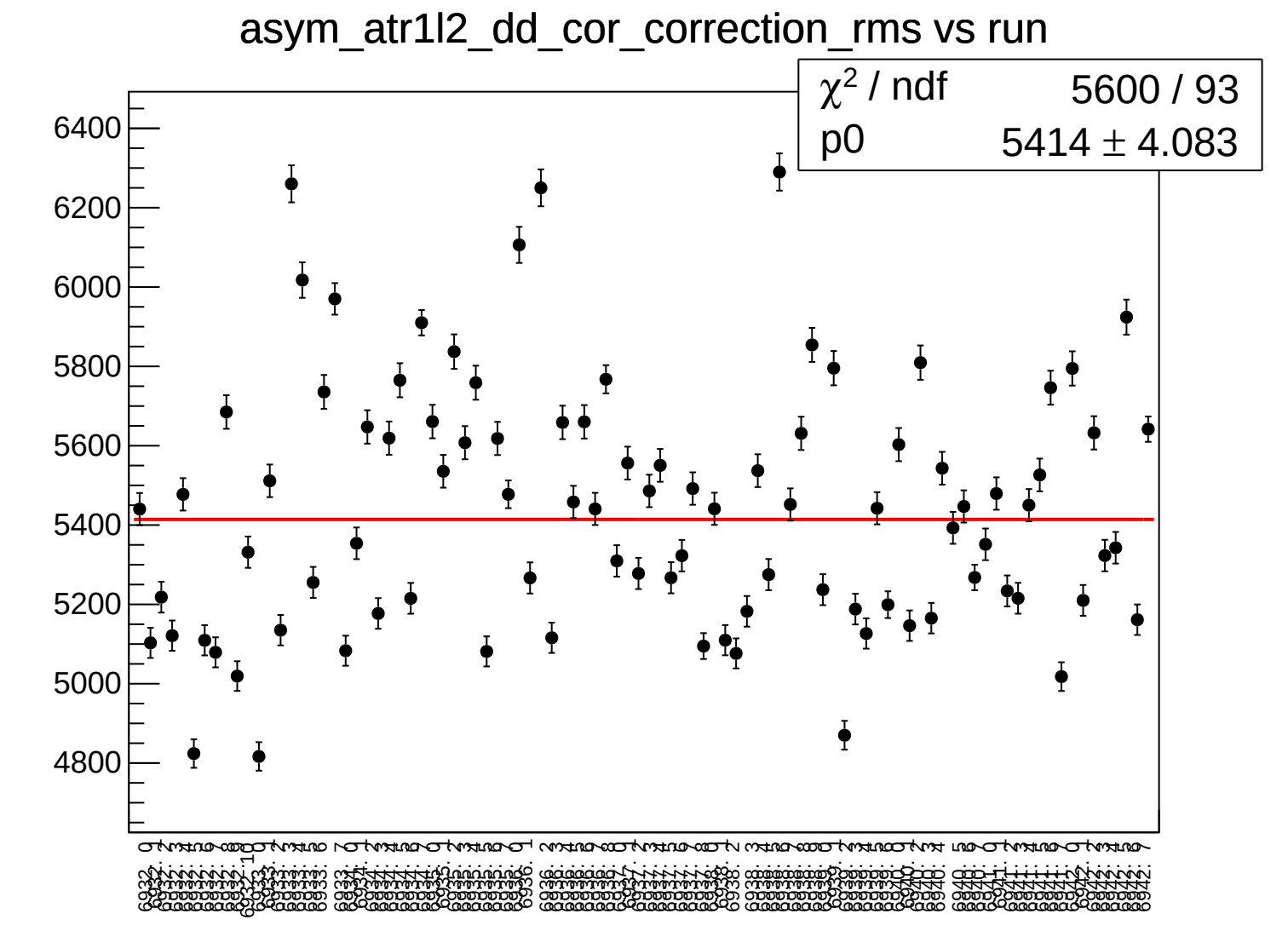

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 121.1 / 93
p0 −553.1± 1992
×10³
pull
Entries 94
Mean −1031
Std Dev 0

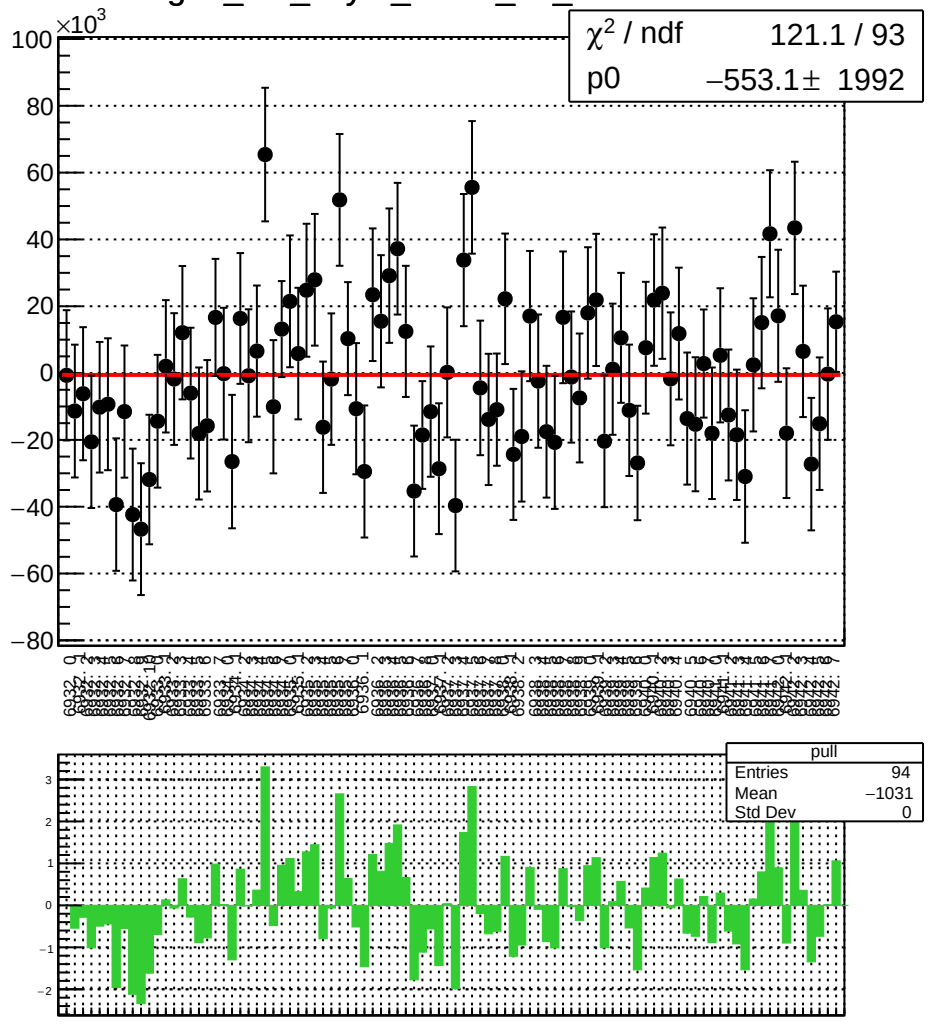

pull1D
Entries 94
Mean −0.003635
Std Dev 1.135

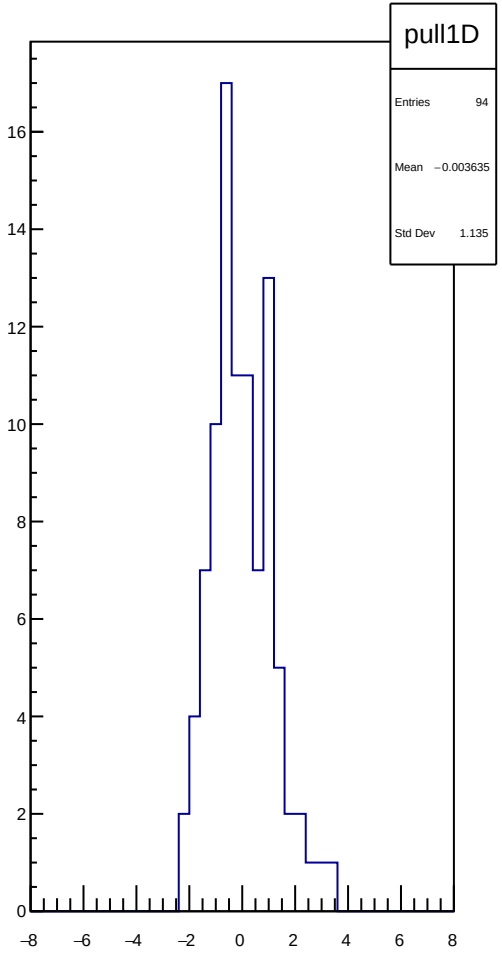

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 99 / 93
p0 1871 ± 1.409
1920
1900
1880
1860
1840
1820

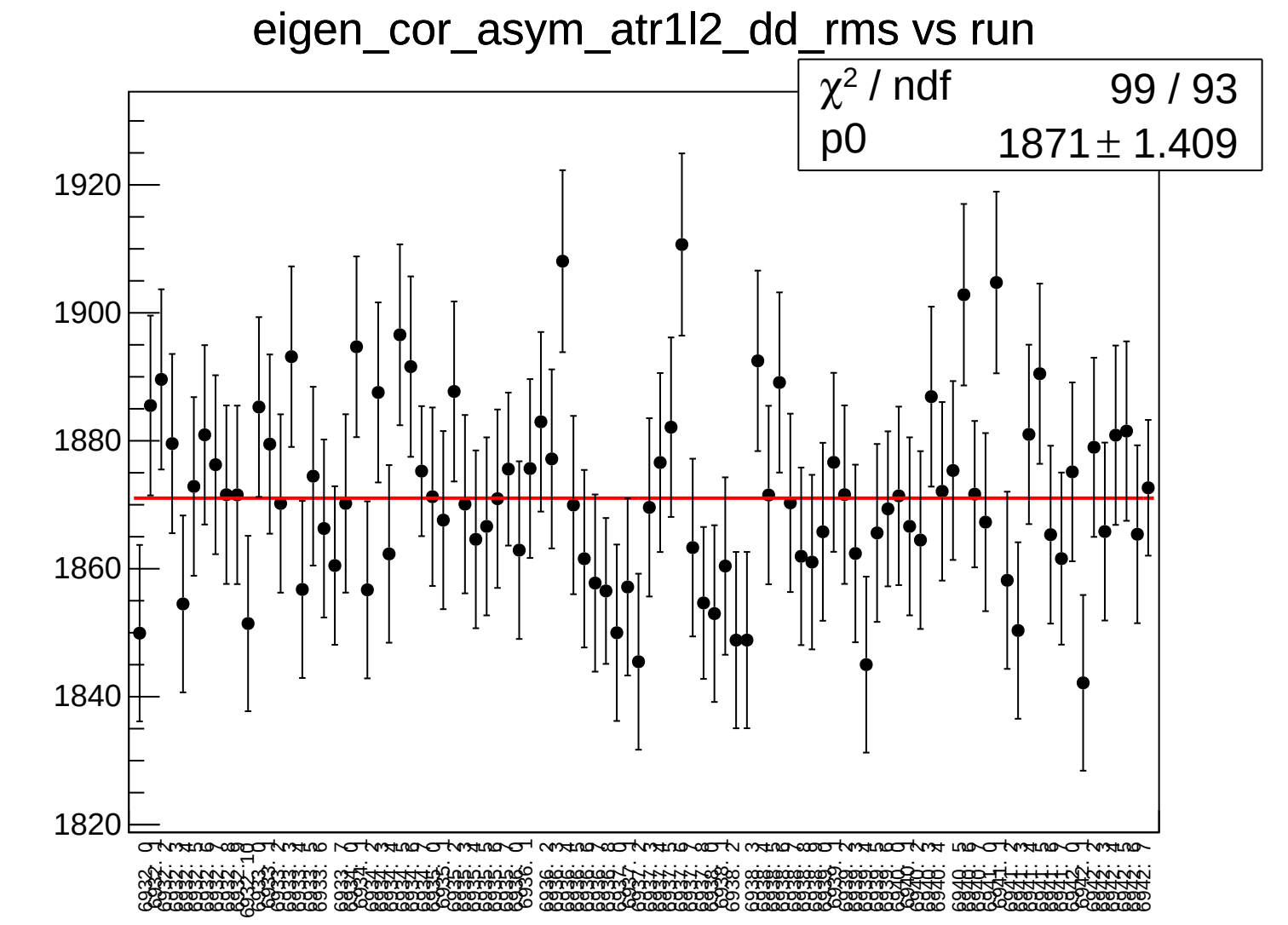

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.64 / 93
p0 −6605 ± 5774
pull
Entries 94
Mean 482.8
Std Dev 0

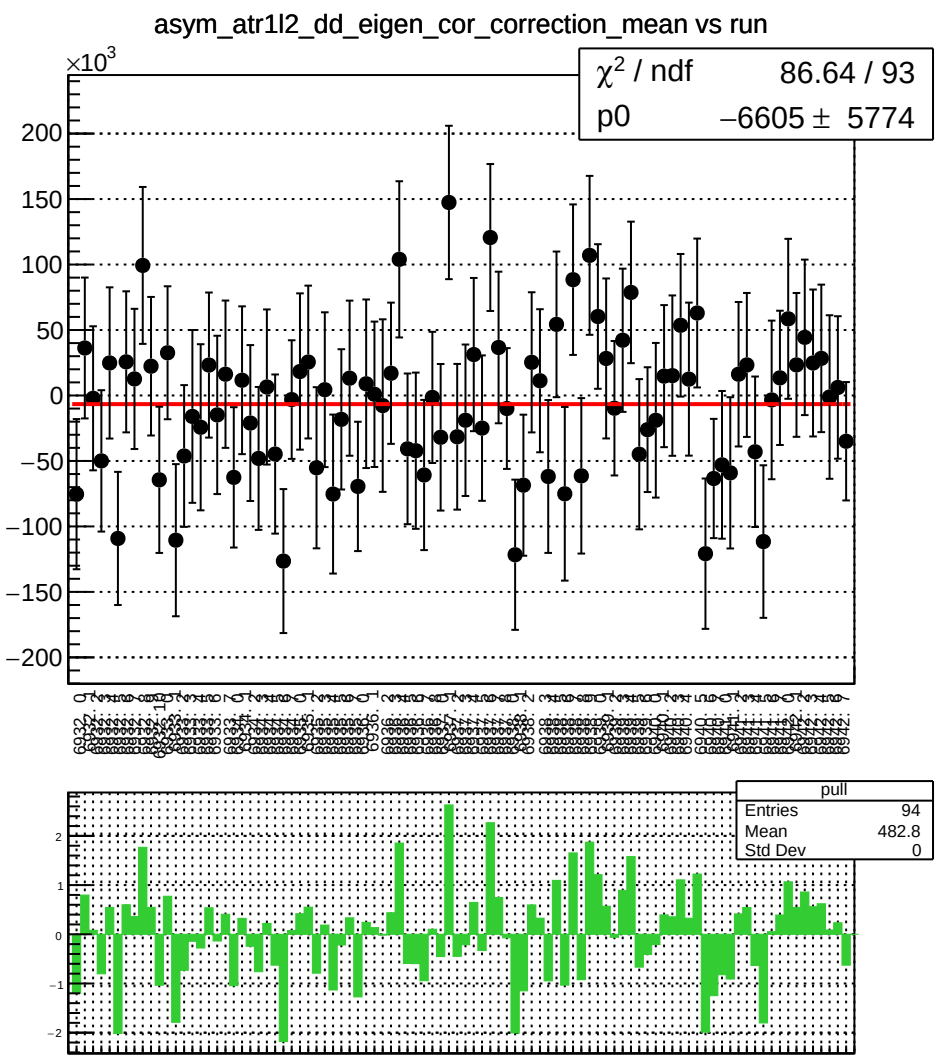

pull1D
Entries 94
Mean 0.007161
Std Dev 0.96

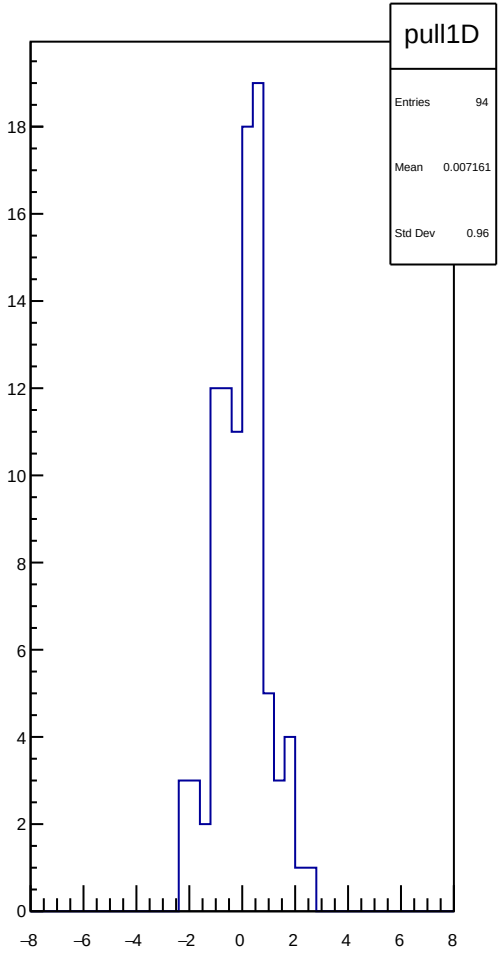

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 5600 / 93
p0 5414 ± 4.083
6400
6200
6000
5800
5600
5400
5200
5000
4800

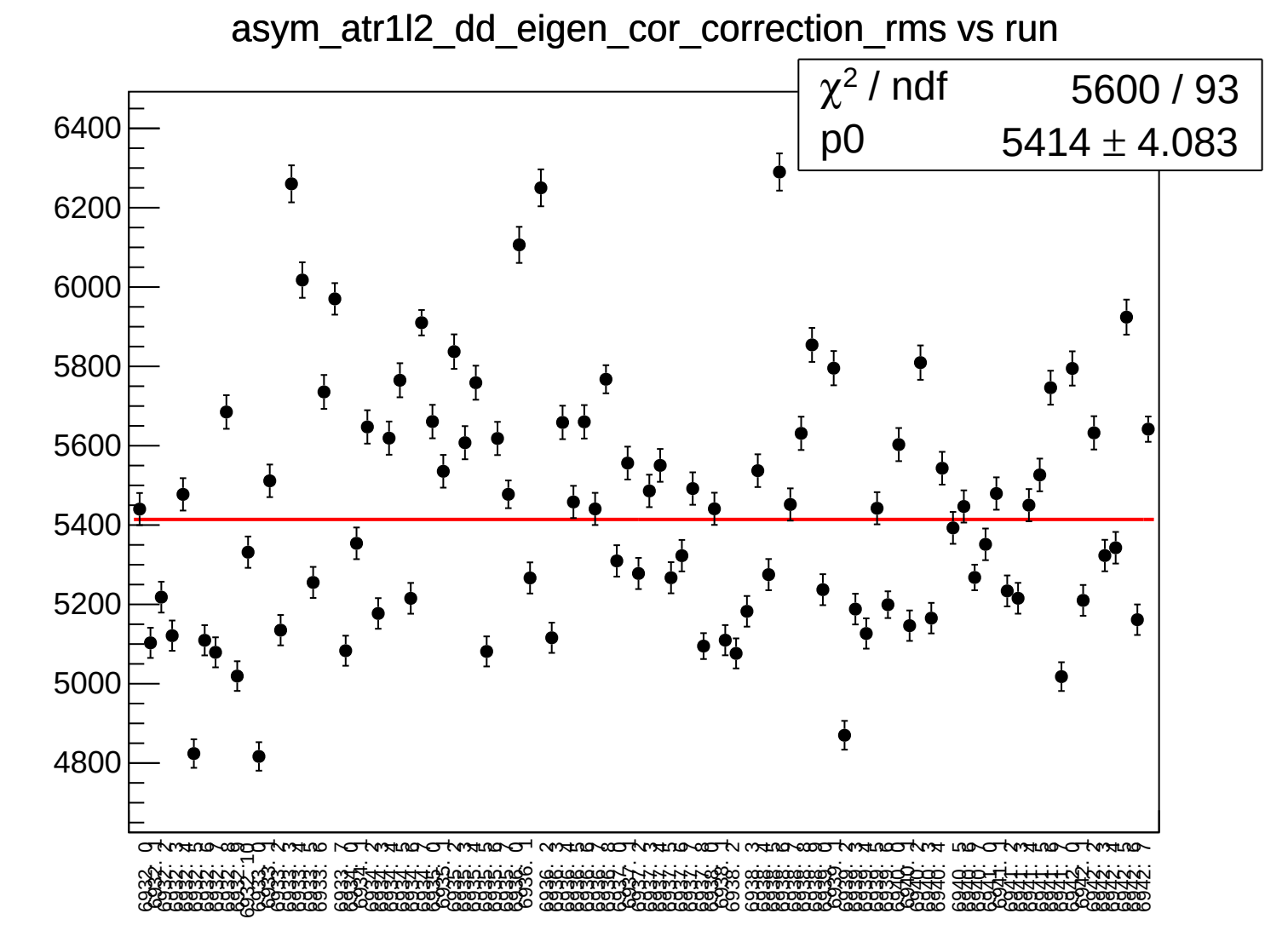

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 121.1 / 93
p0 −553.1± 1992
×10³
pull
Entries 94
Mean −1031
Std Dev 0

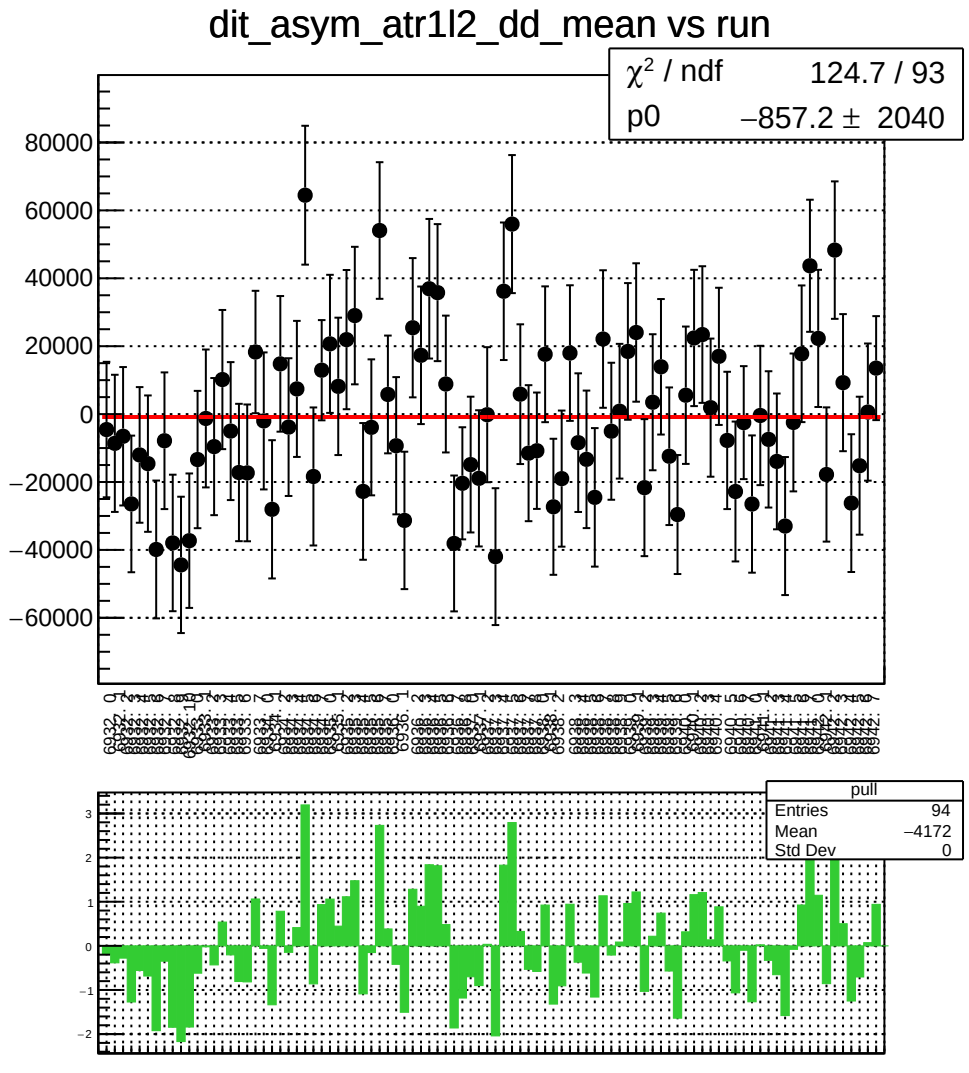

pull1D
Entries 94
Mean −0.003635
Std Dev 1.135

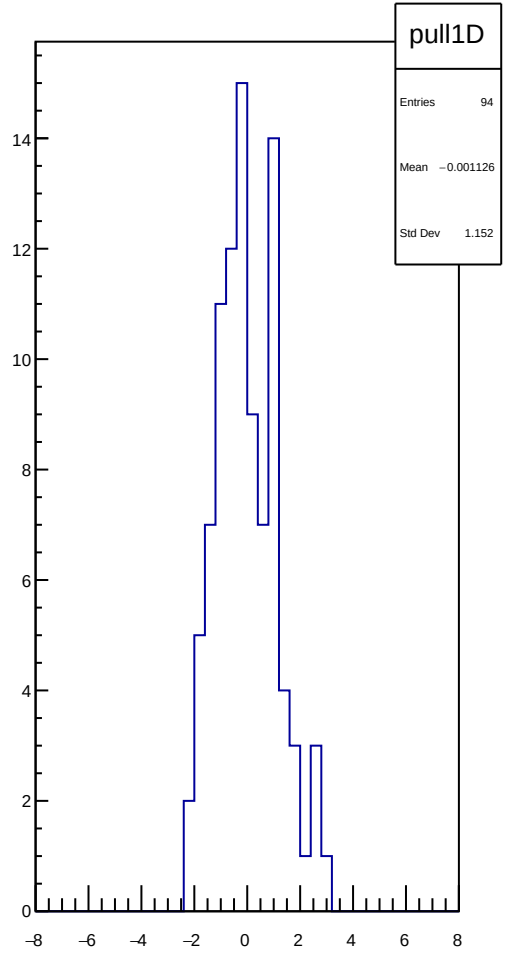

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 99 / 93
p0 1871 ± 1.409
1920
1900
1880
1860
1840
1820

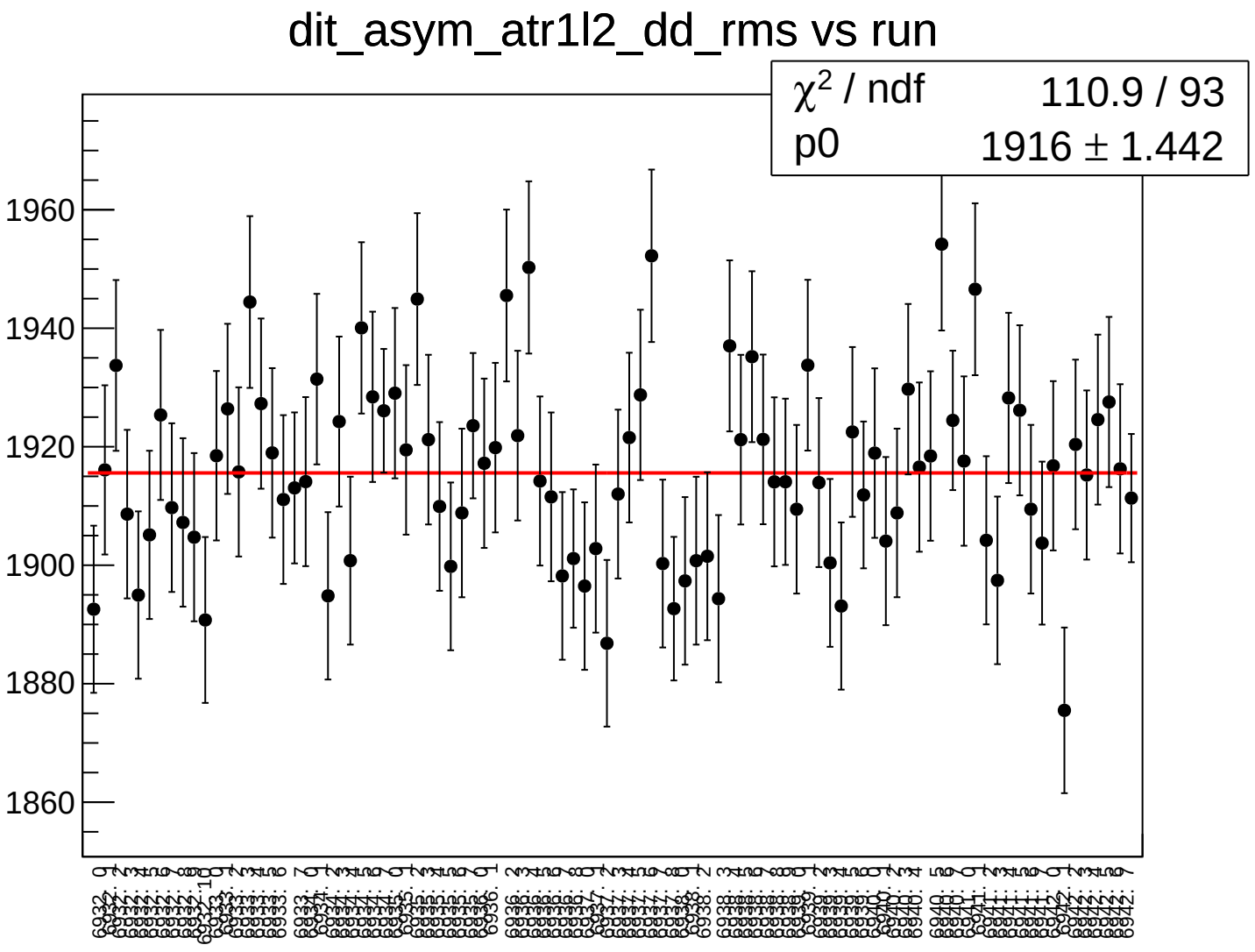

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.64 / 93
p0 −6605 ± 5774
pull
Entries 94
Mean 482.8
Std Dev 0

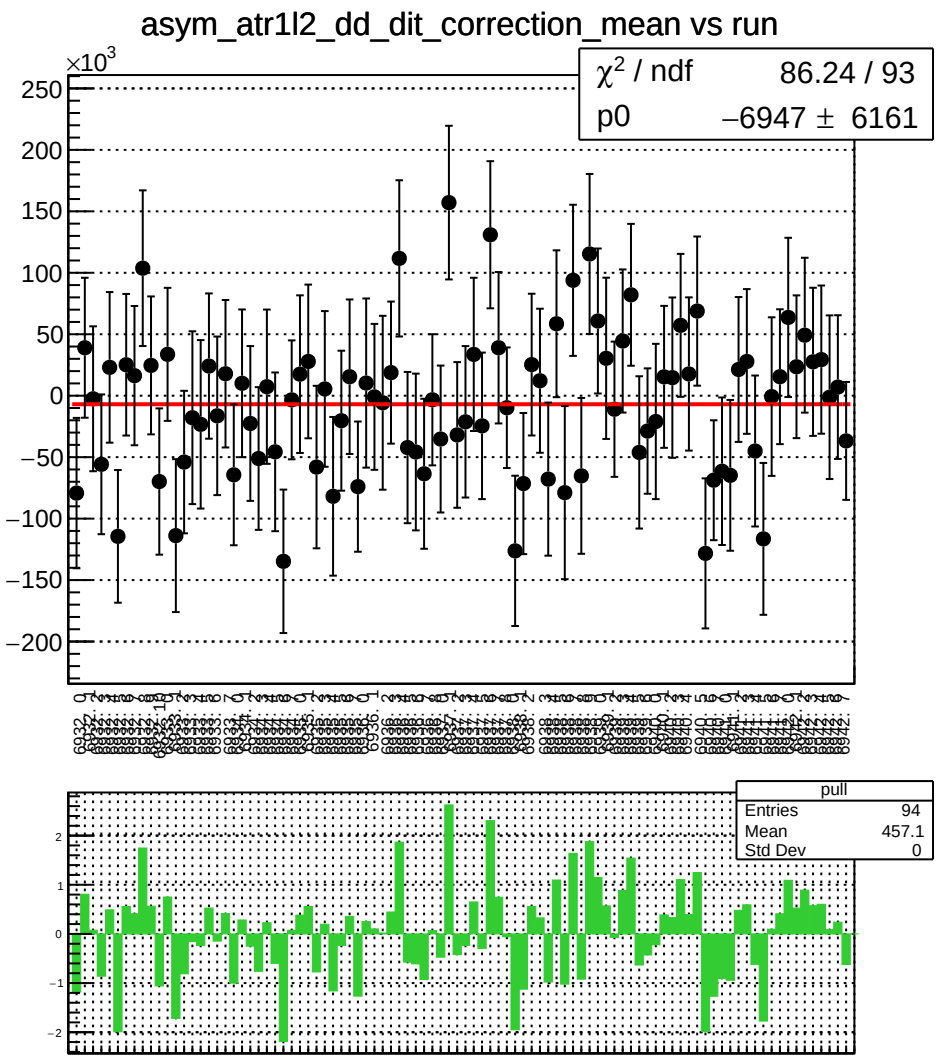

pull1D
Entries 94
Mean 0.007161
Std Dev 0.96

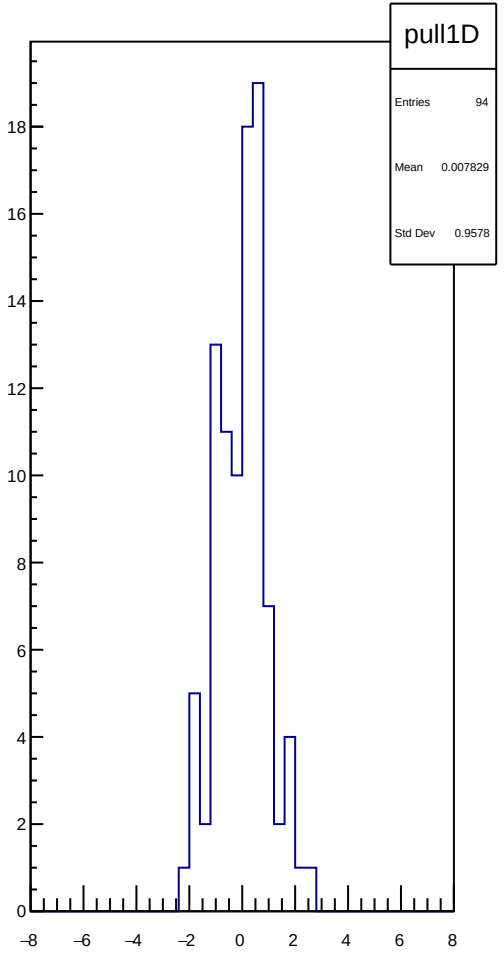

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5600 / 93
p0 5414 ± 4.083
6400
6200
6000
5800
5600
5400
5200
5000
4800

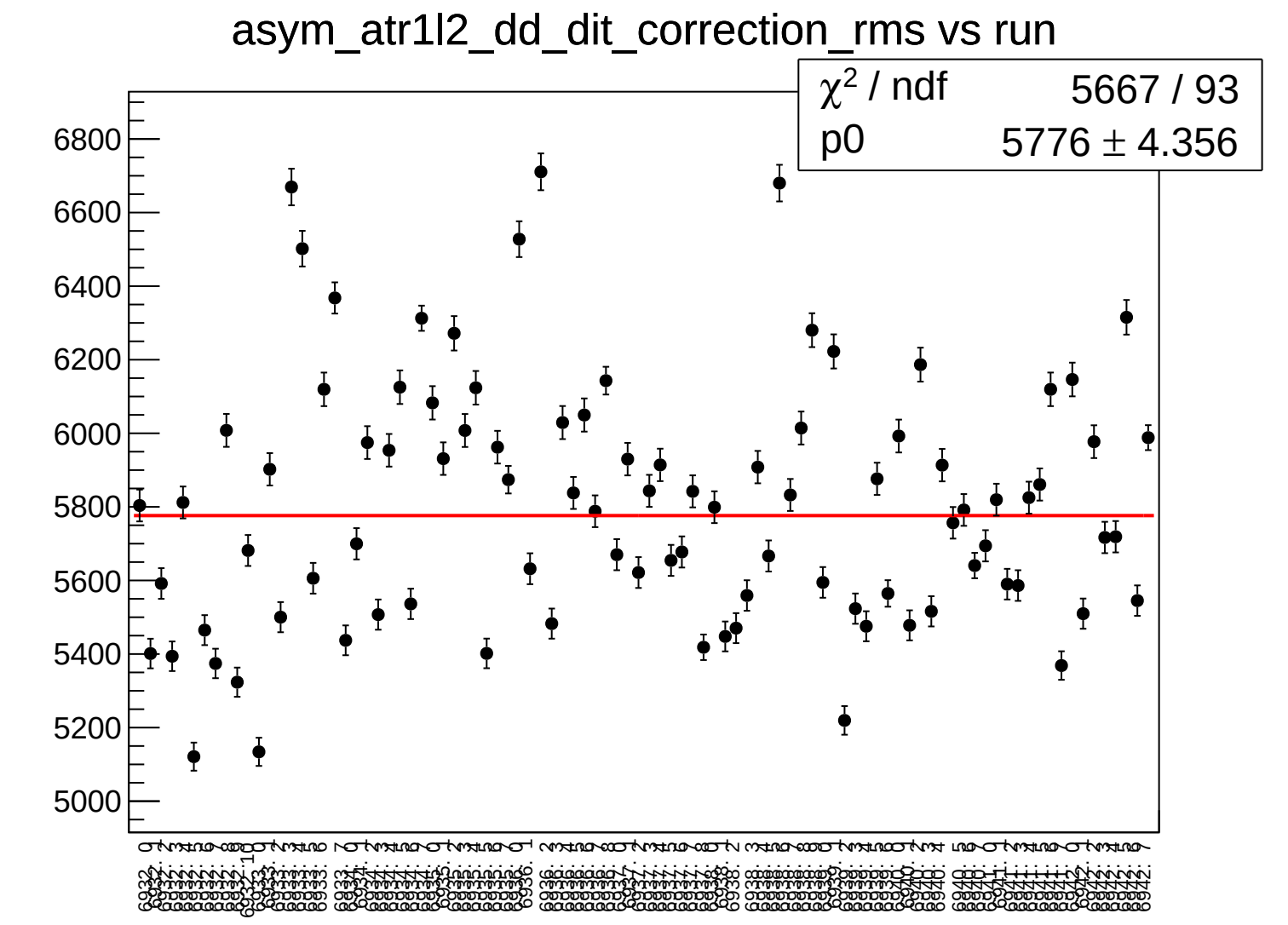

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 124.7 / 93
p0 −857.2 ± 2040
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −4172
Std Dev 0
3
2
1
0
−1
−2

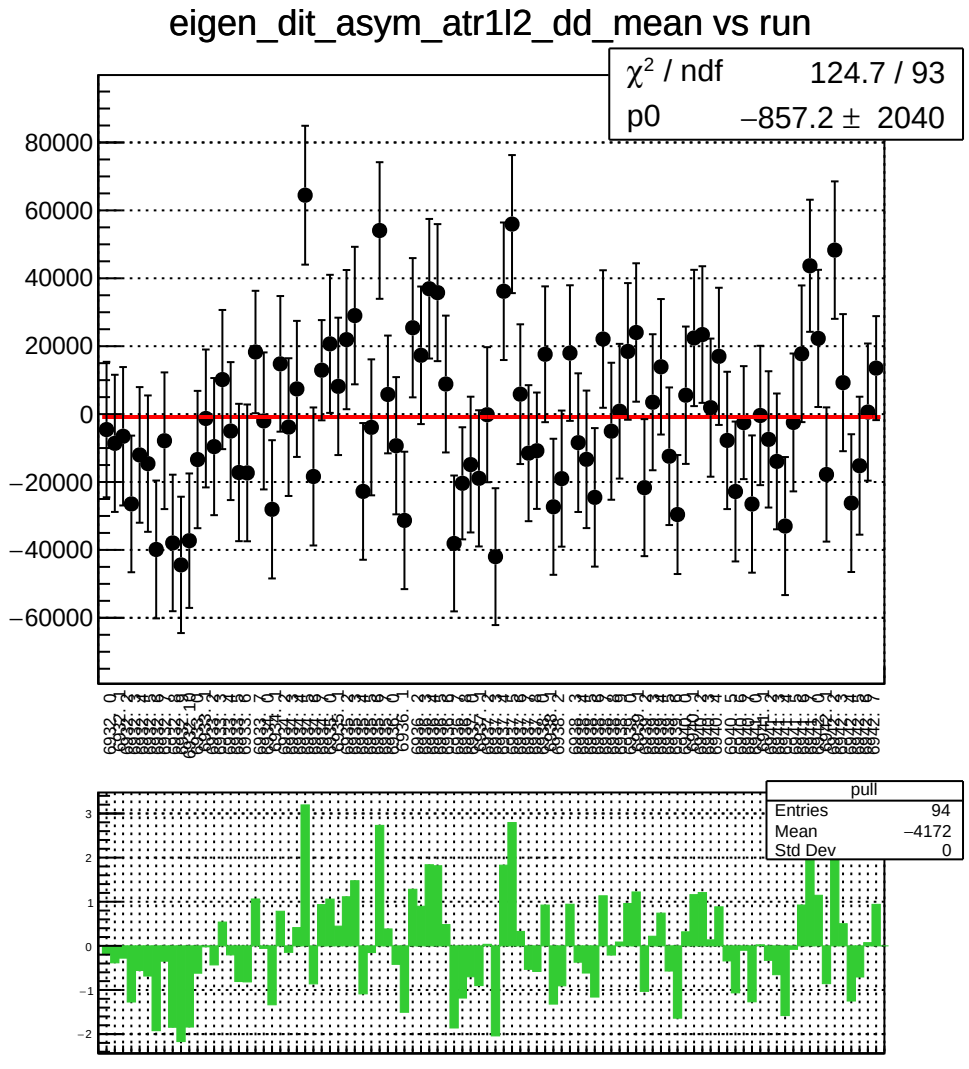

pull1D
Entries 94
Mean −0.001126
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

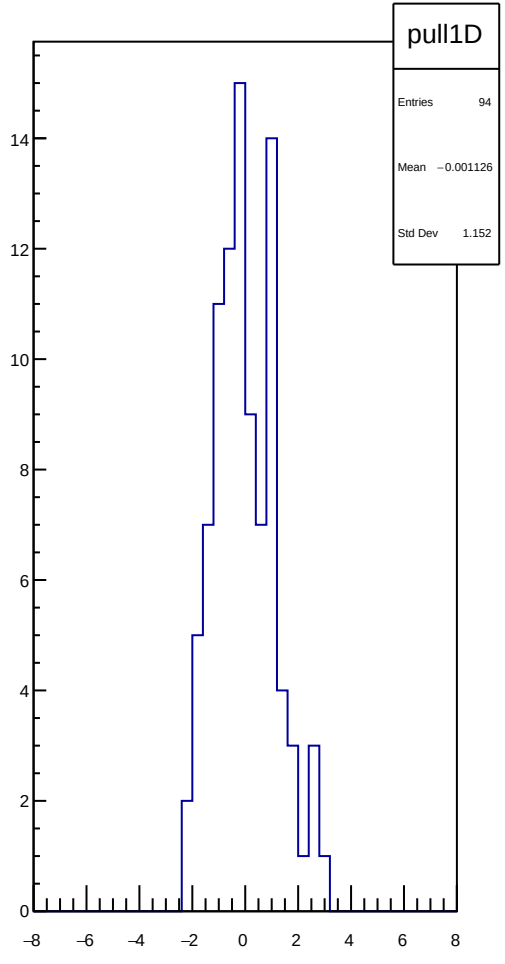

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 110.9 / 93
p0 1916 ± 1.442
1960
1940
1920
1900
1880
1860

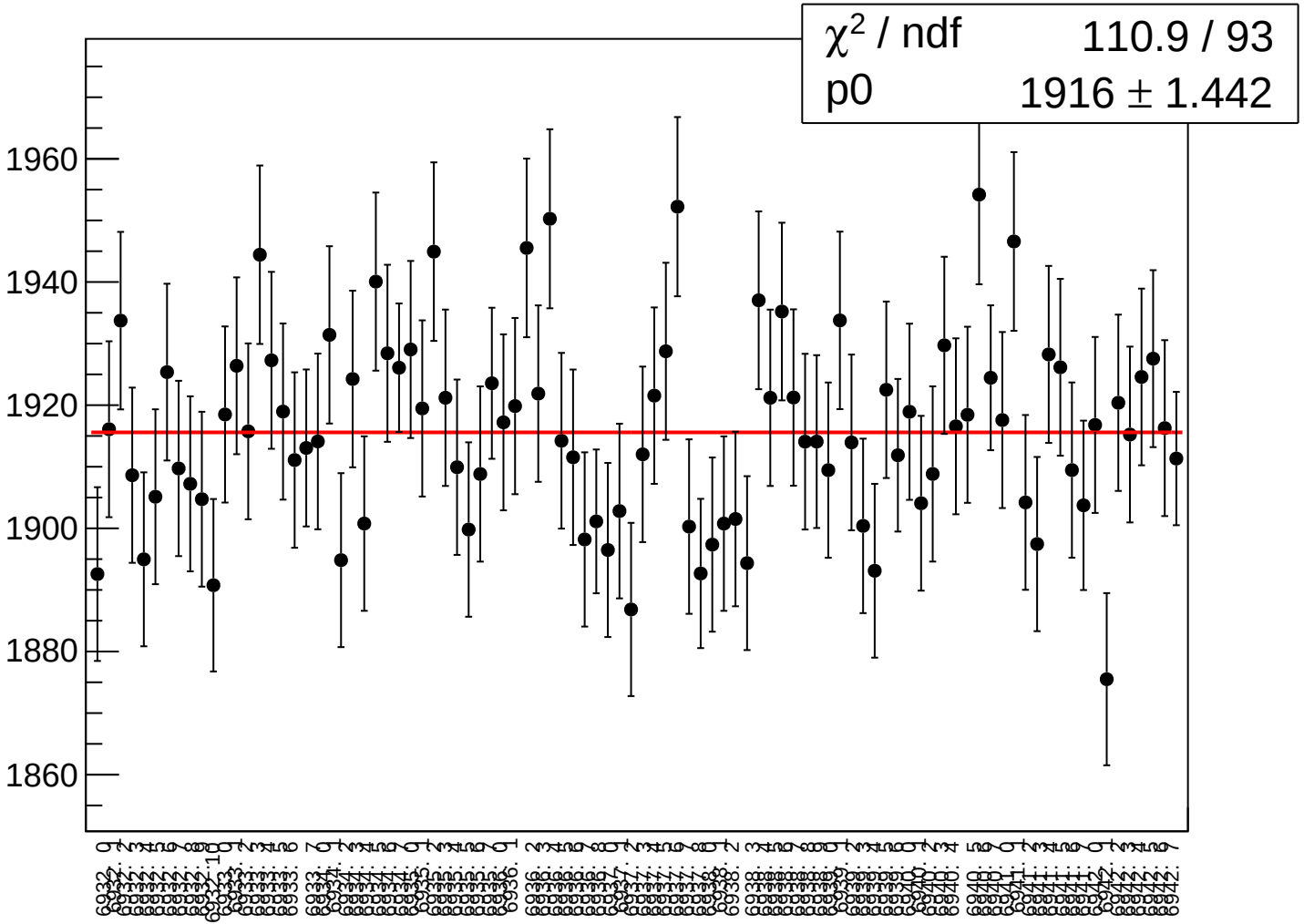

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.24 / 93
p0 −6947 ± 6161
pull
Entries 94
Mean 457.1
Std Dev 0

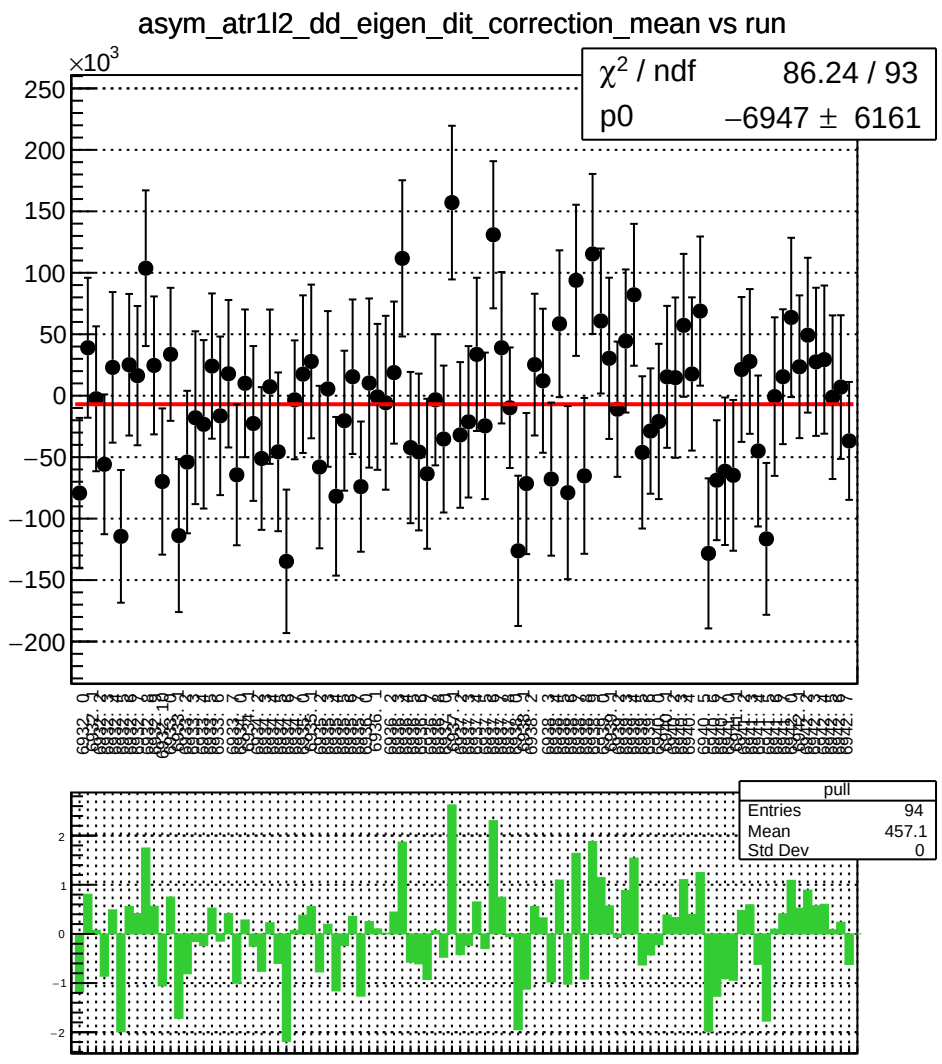

pull1D
Entries 94
Mean 0.007829
Std Dev 0.9578

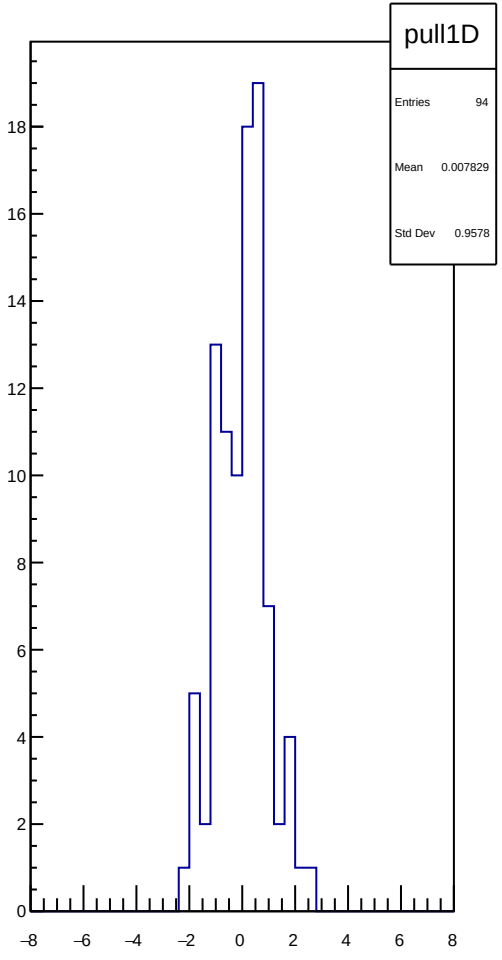

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 5667 / 93
p0 5776 ± 4.356
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

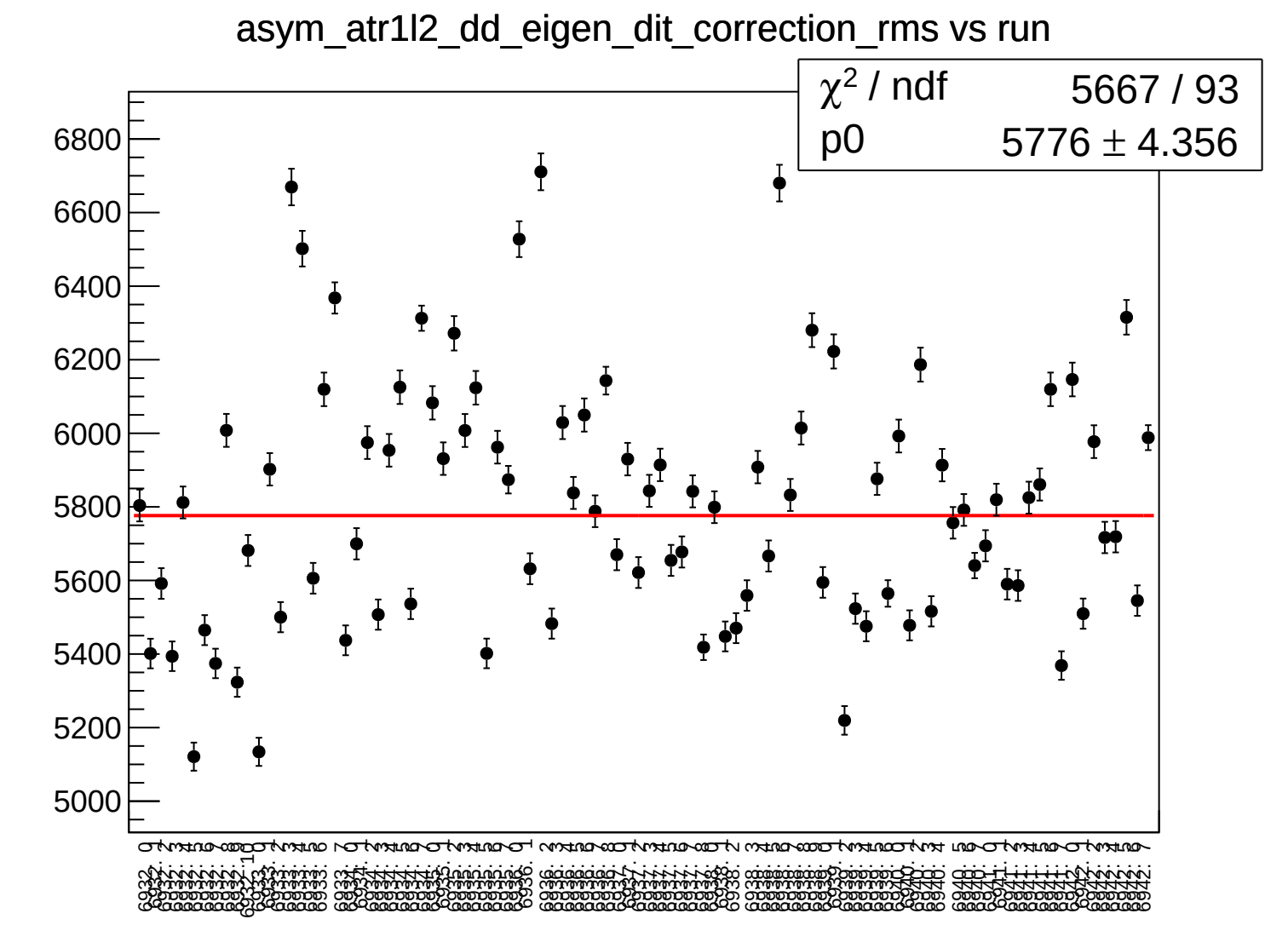

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 124.7 / 93
p0 −857.2 ± 2040
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −4172
Std Dev 0
3
2
1
0
−1
−2

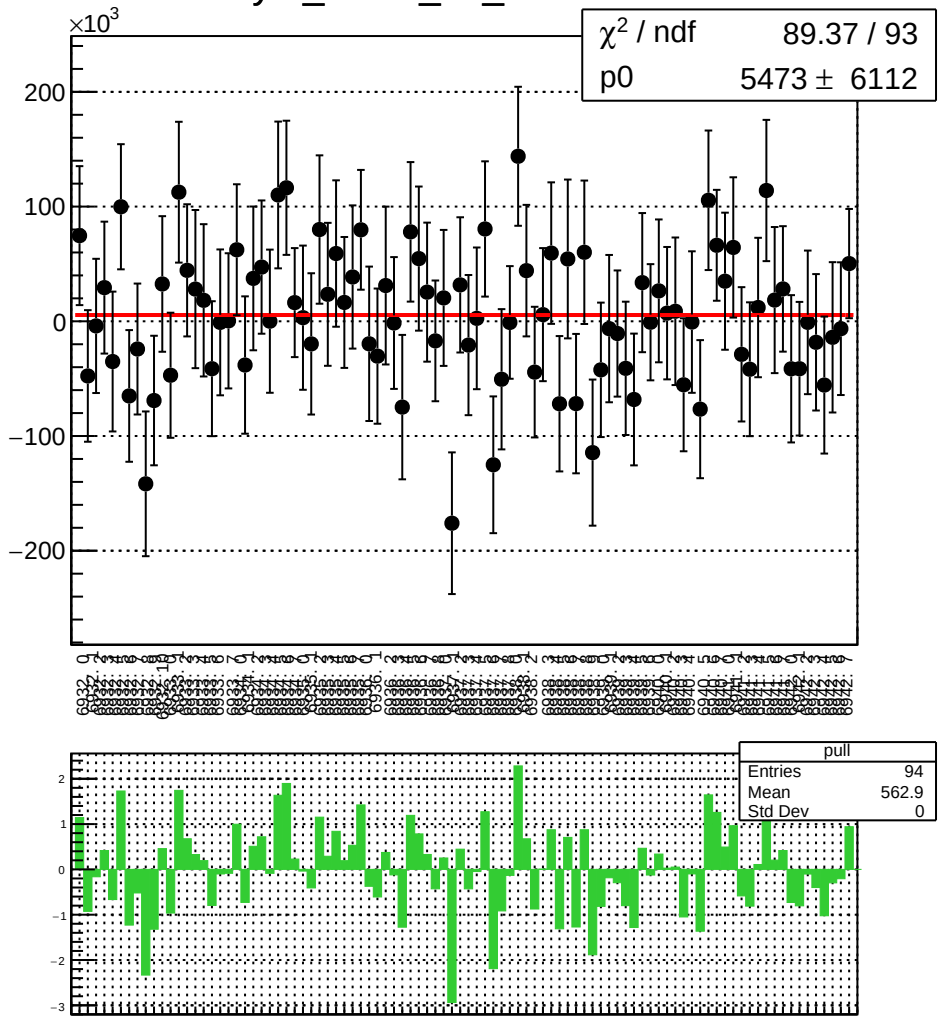

pull1D
Entries 94
Mean −0.001126
Std Dev 1.152
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

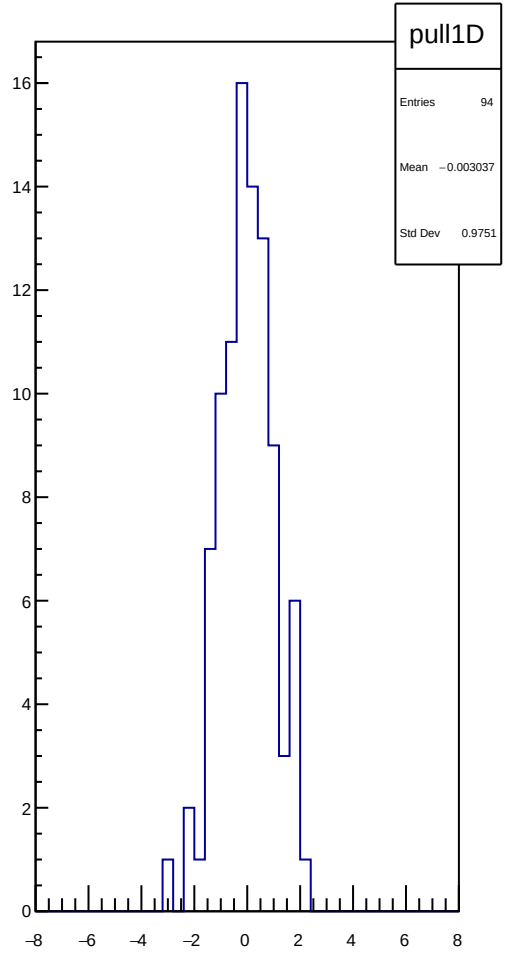

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 110.9 / 93
p0 1916 ± 1.442
1960
1940
1920
1900
1880
1860

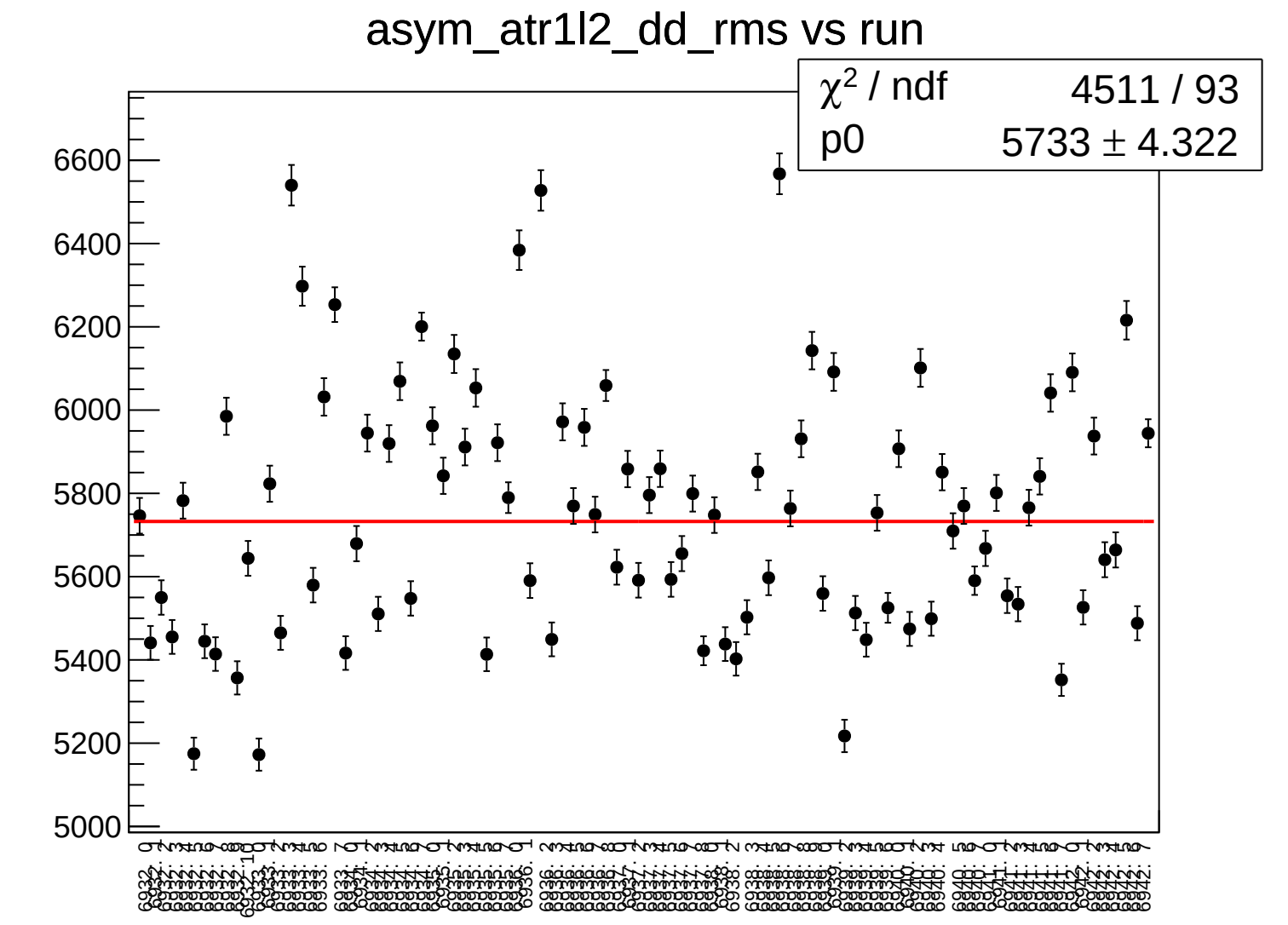

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.24 / 93
p0 −6947 ± 6161
pull
Entries 94
Mean 457.1
Std Dev 0

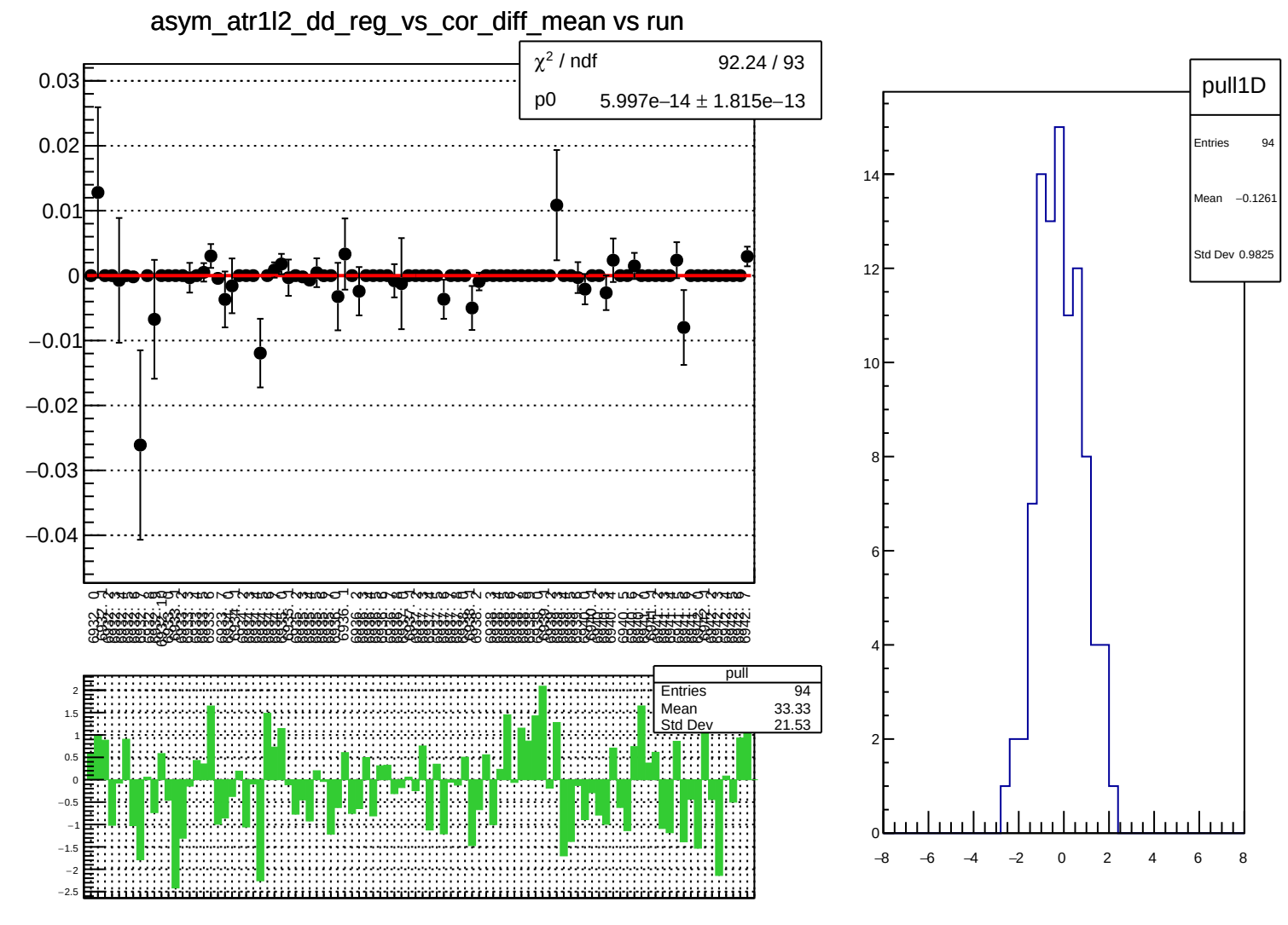

pull1D
Entries 94
Mean 0.007829
Std Dev 0.9578

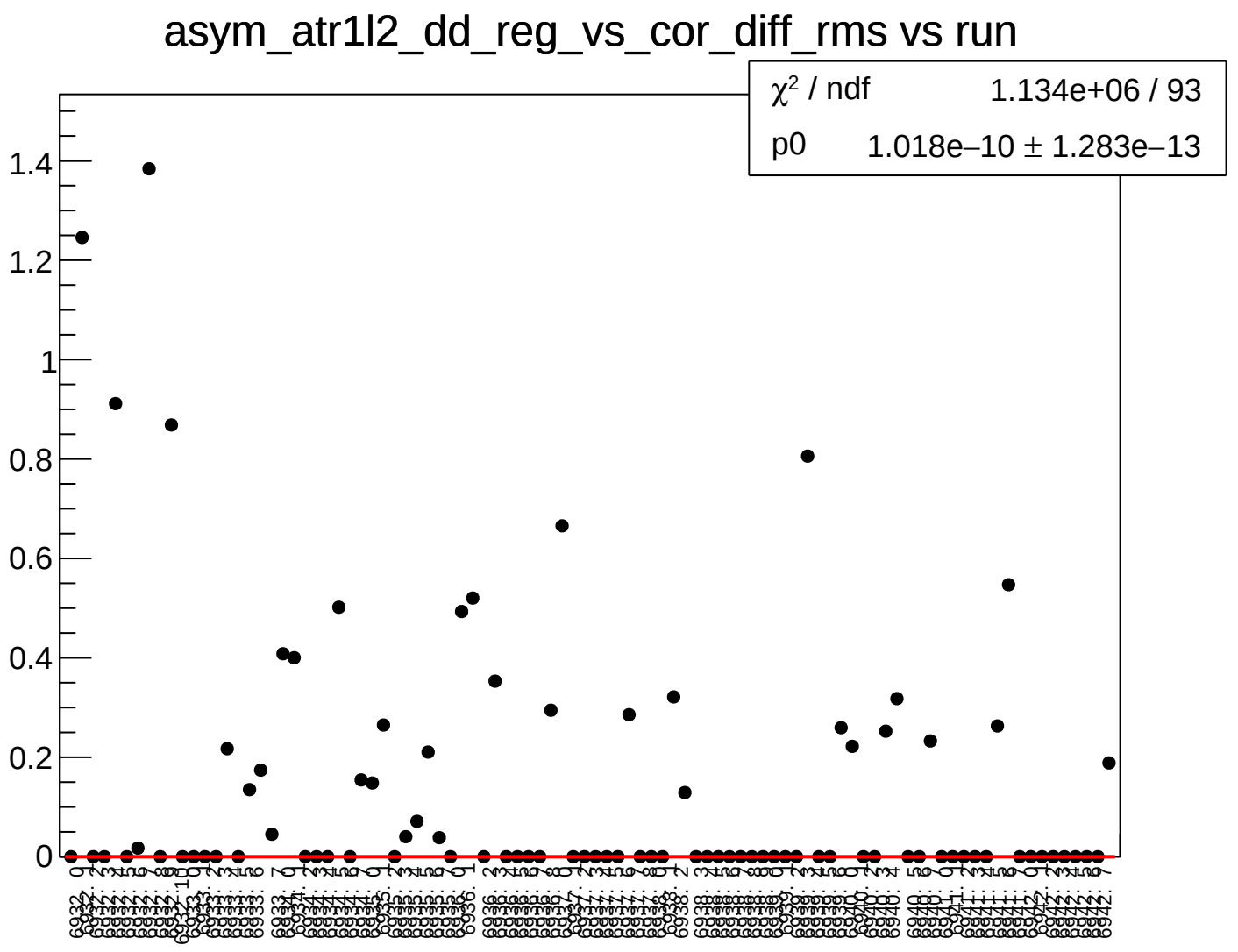

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5667 / 93
p0 5776 ± 4.356
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

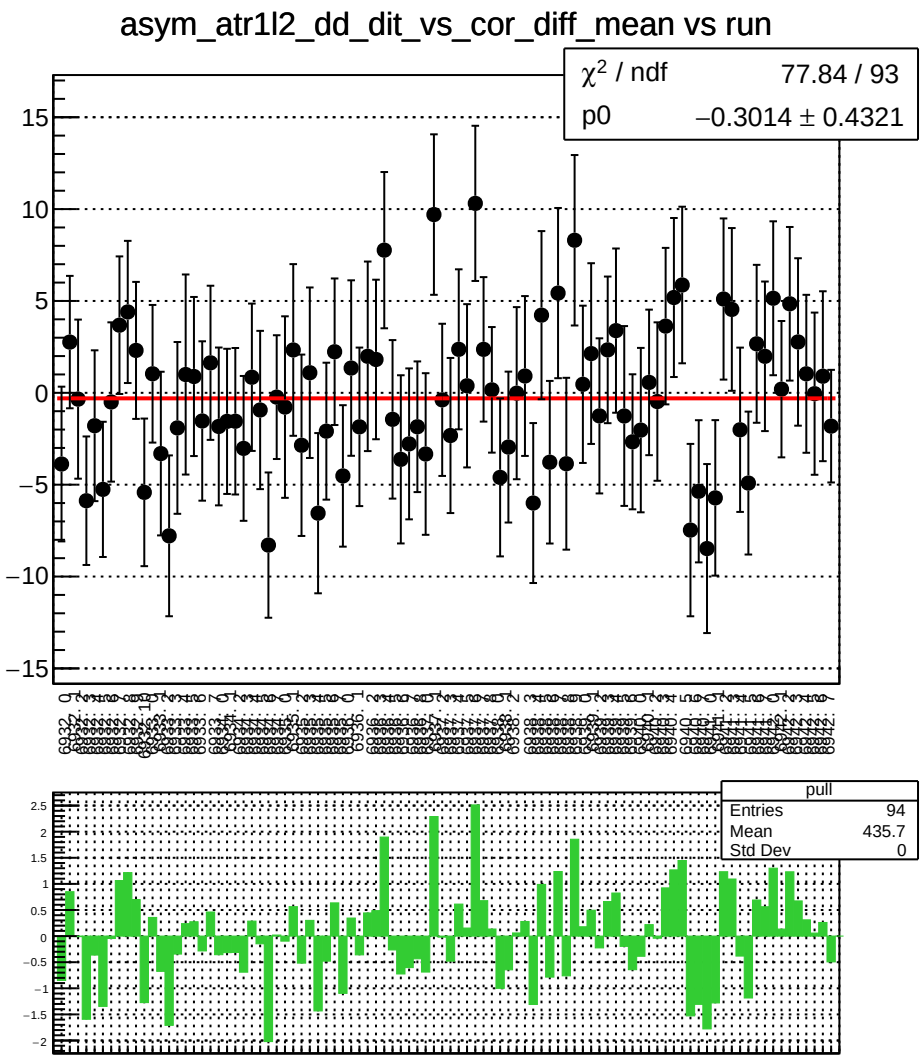

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 89.37 / 93
p0 5473 ± 6112
200
100
0
−100
−200
pull
Entries 94
Mean 562.9
Std Dev 0
2
1
0
−1
−2
−3

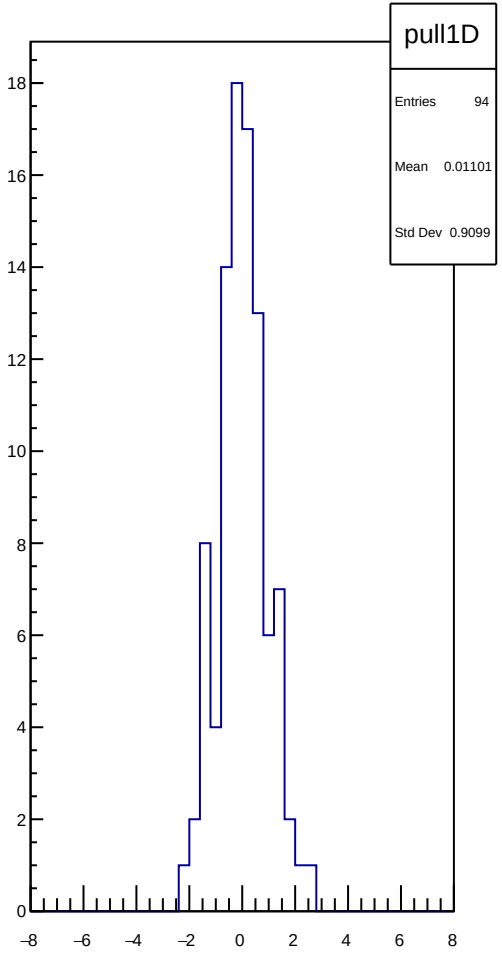

pull1D
Entries 94
Mean −0.003037
Std Dev 0.9751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

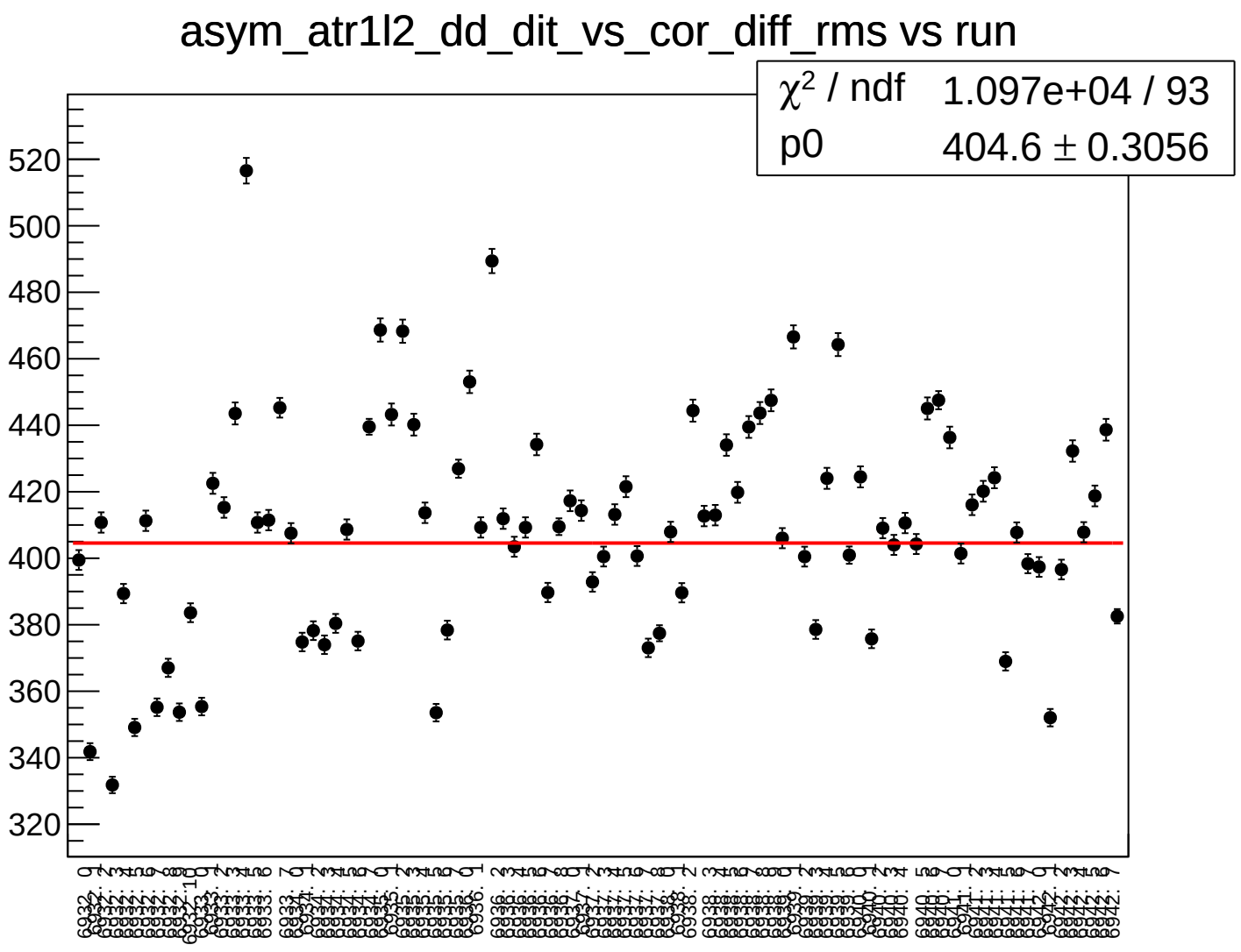

asym_atr1l2_dd_rms vs run
χ² / ndf 4511 / 93
p0 5733 ± 4.322
6600
6400
6200
6000
5800
5600
5400
5200
5000

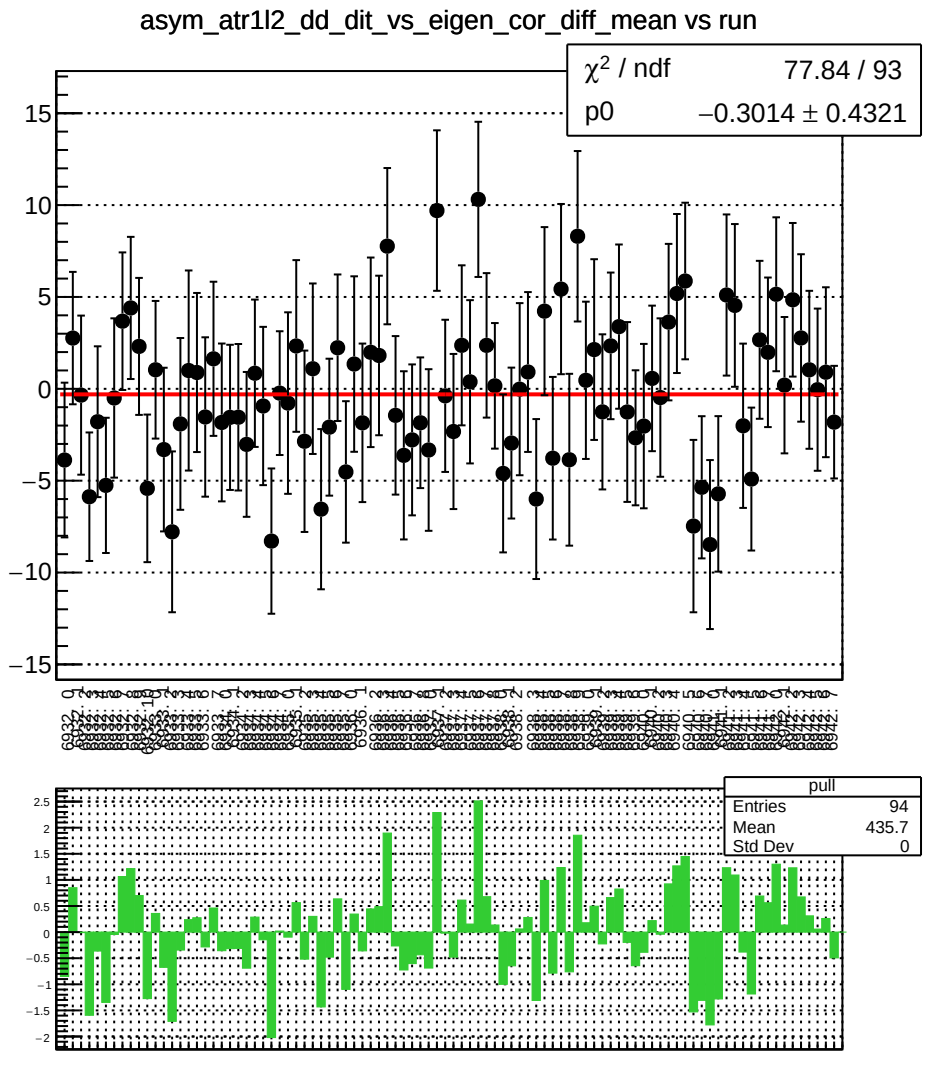

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.24 / 93
p0 5.997e−14 ± 1.815e−13
pull
Entries 94
Mean 33.33
Std Dev 21.53
pull1D
Entries 94
Mean −0.1261
Std Dev 0.9825

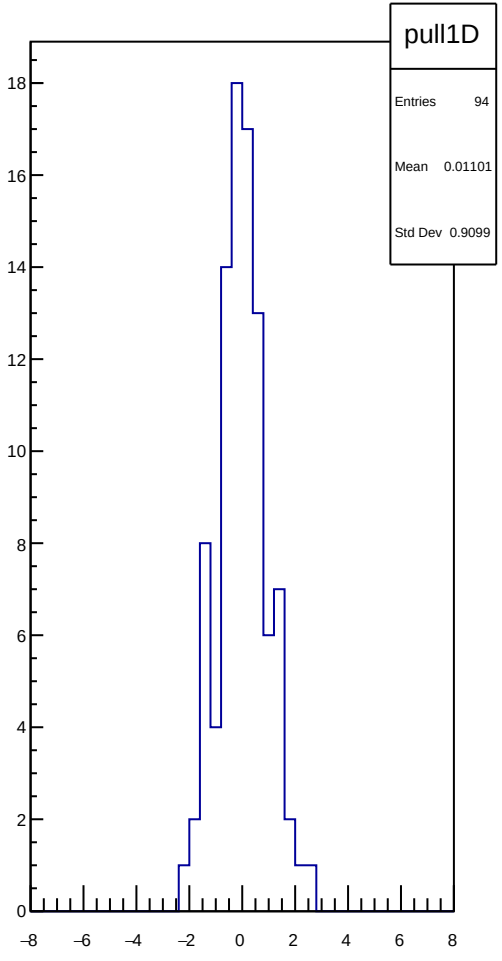

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 93
p0 1.018e−10 ± 1.283e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

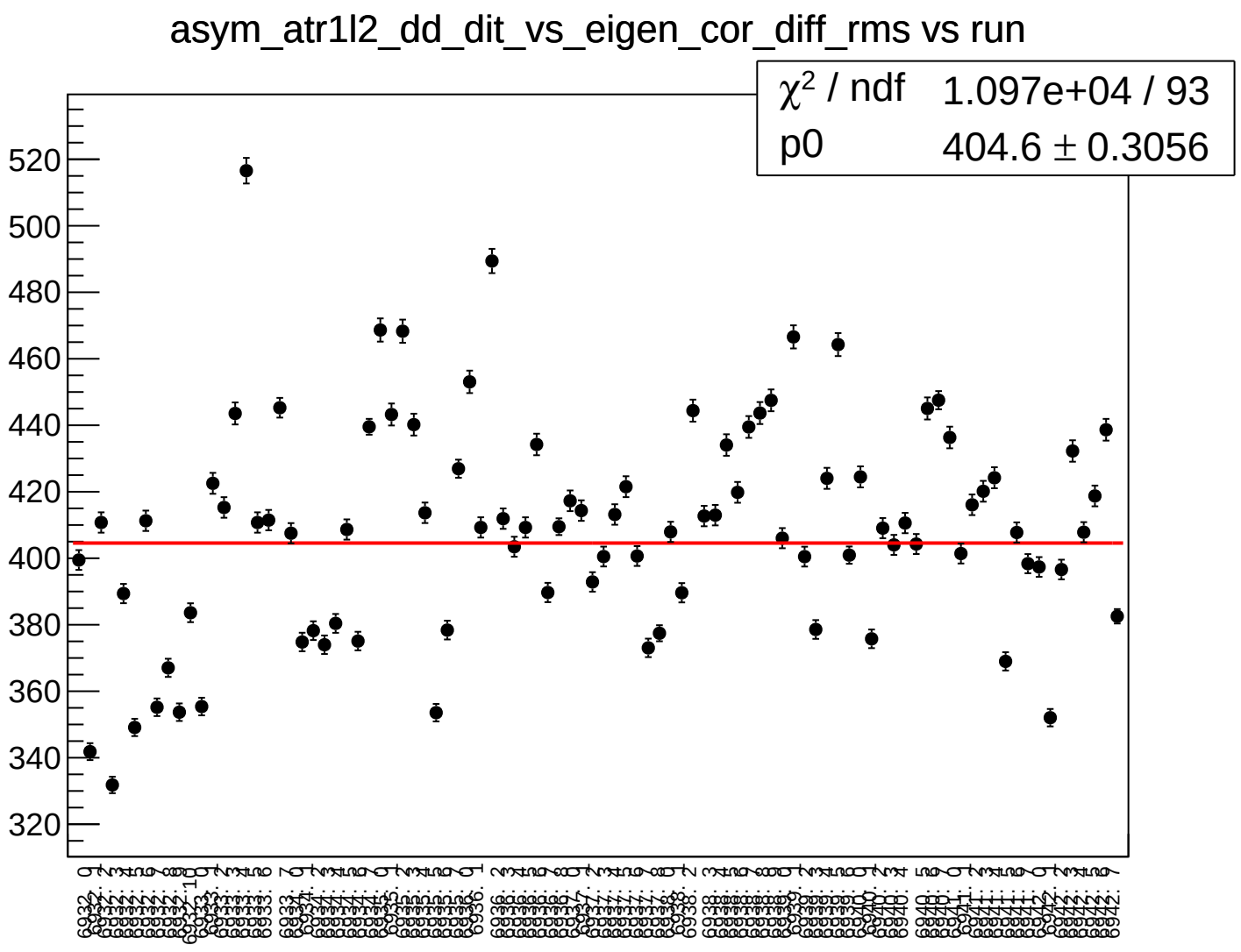

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.84 / 93
p0 −0.3014 ± 0.4321
pull
Entries 94
Mean 435.7
Std Dev 0

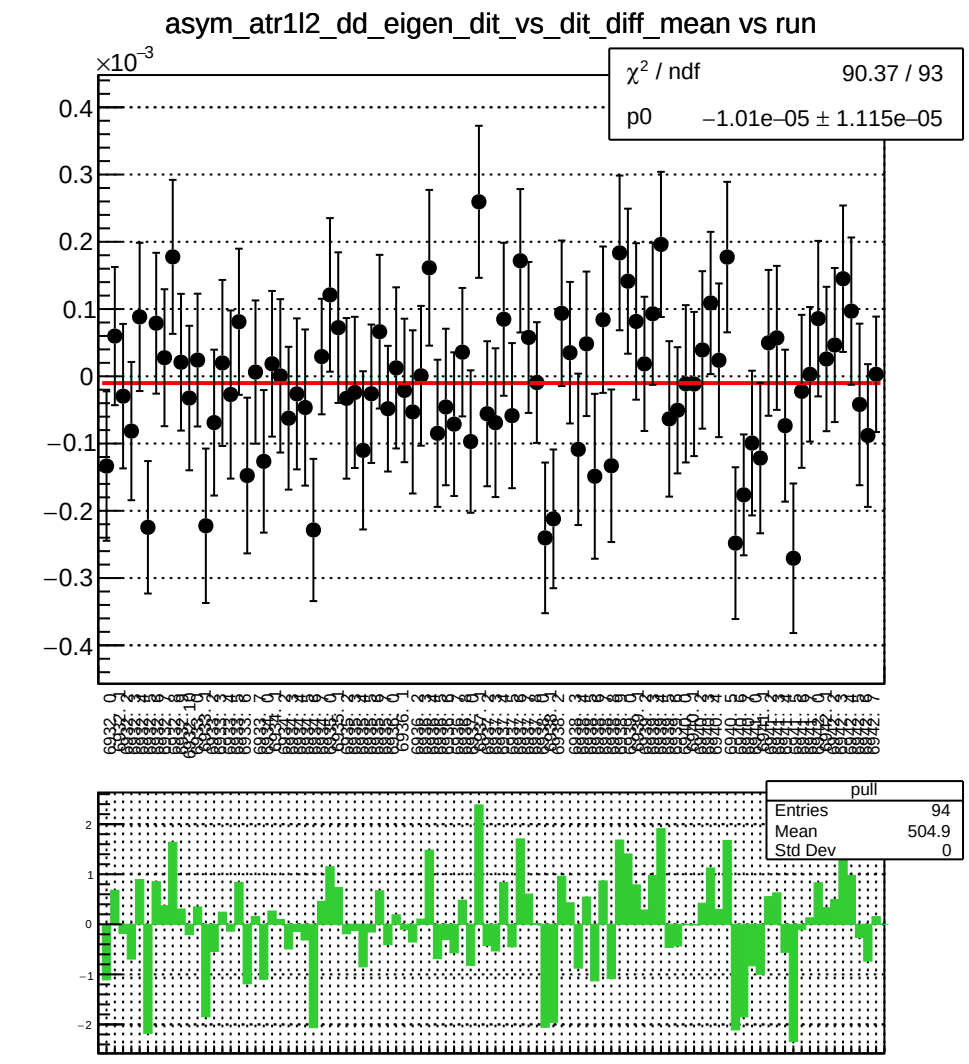

pull1D
Entries 94
Mean 0.01101
Std Dev 0.9099

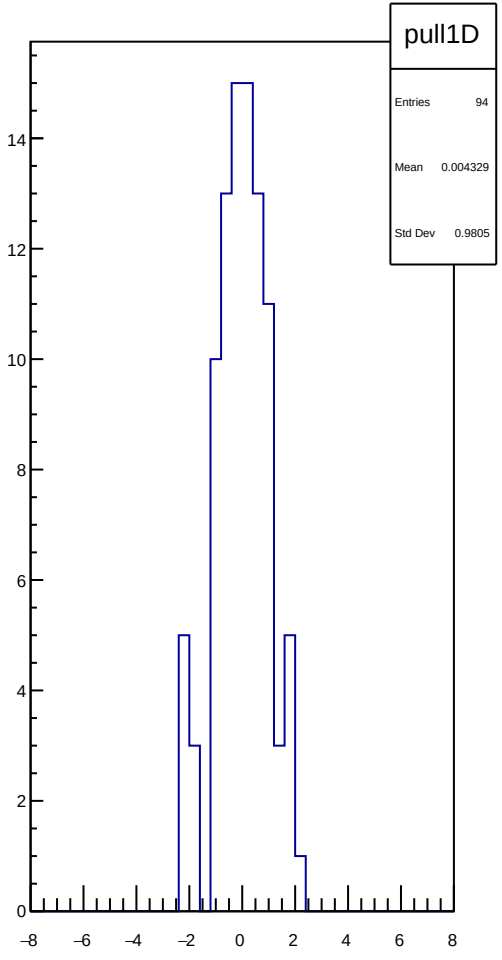

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.097e+04 / 93
p0 404.6 ± 0.3056
520
500
480
460
440
420
400
380
360
340
320

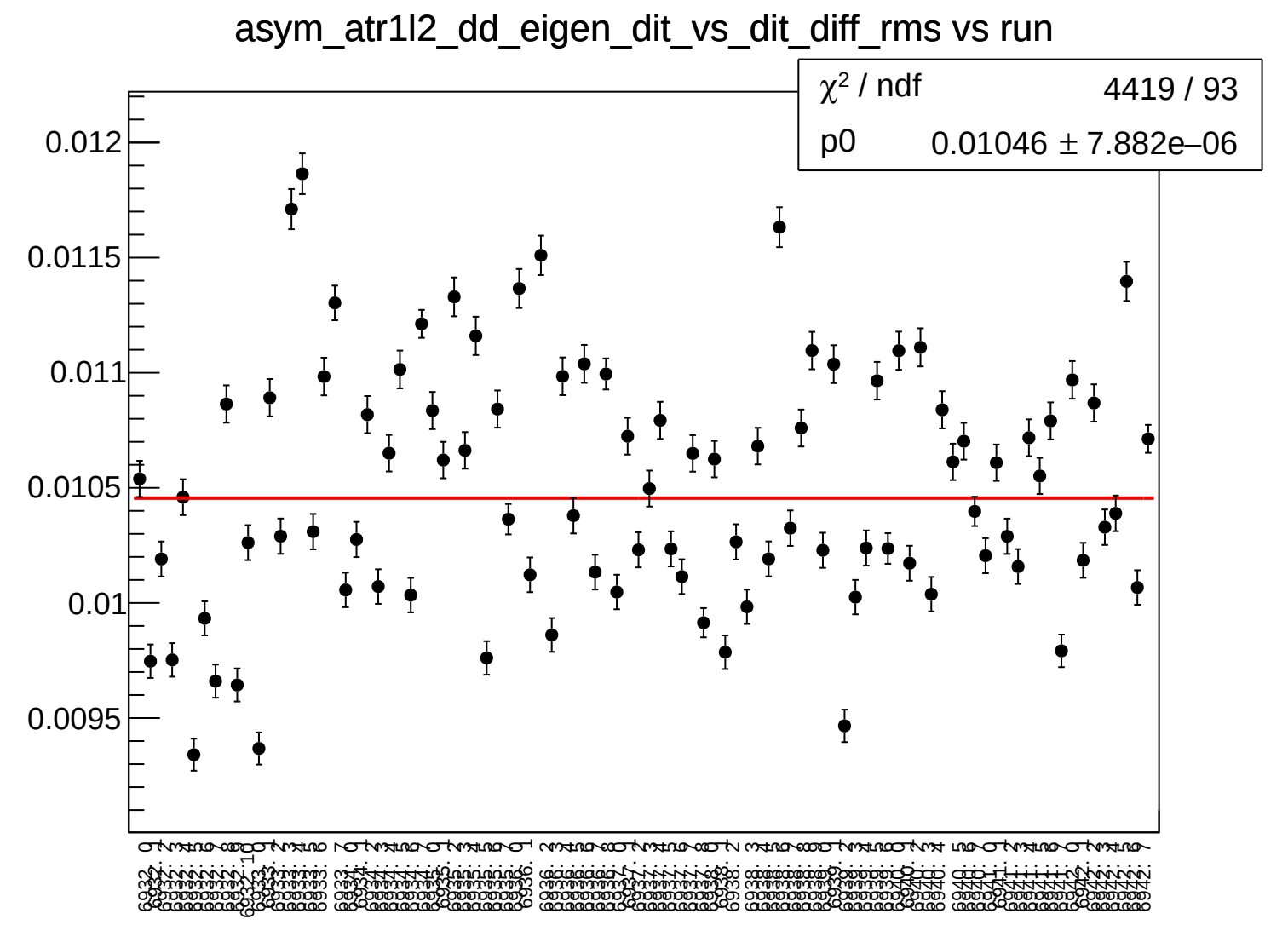

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.84 / 93
p0 −0.3014 ± 0.4321
pull
Entries 94
Mean 435.7
Std Dev 0

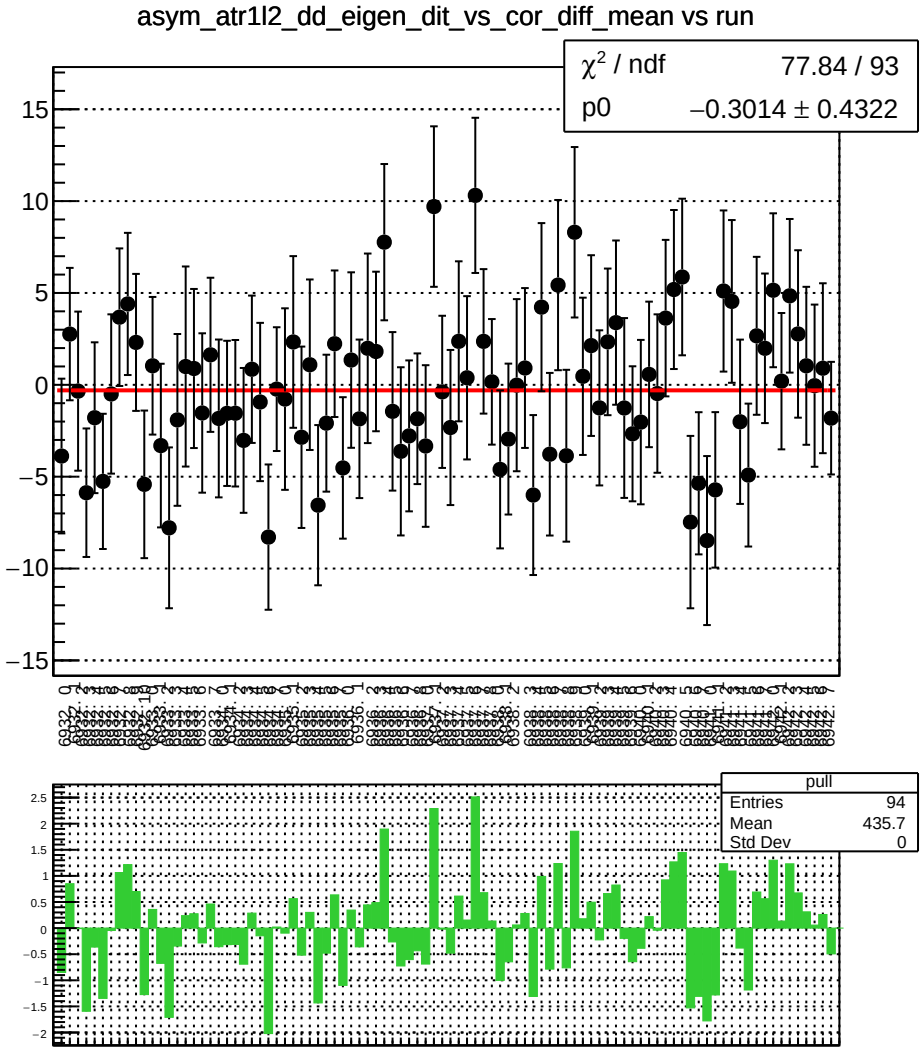

pull1D
Entries 94
Mean 0.01101
Std Dev 0.9099

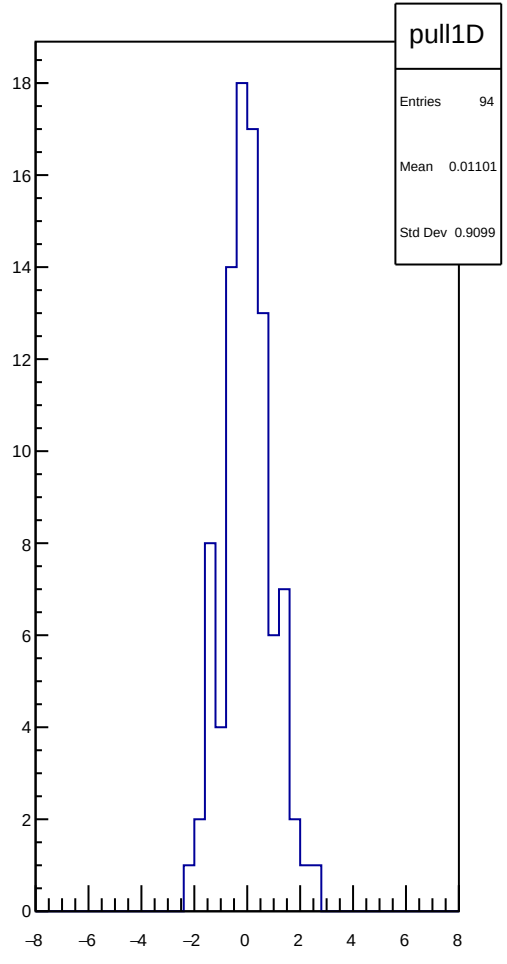

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+04 / 93
p0 404.6 ± 0.3056
520
500
480
460
440
420
400
380
360
340
320

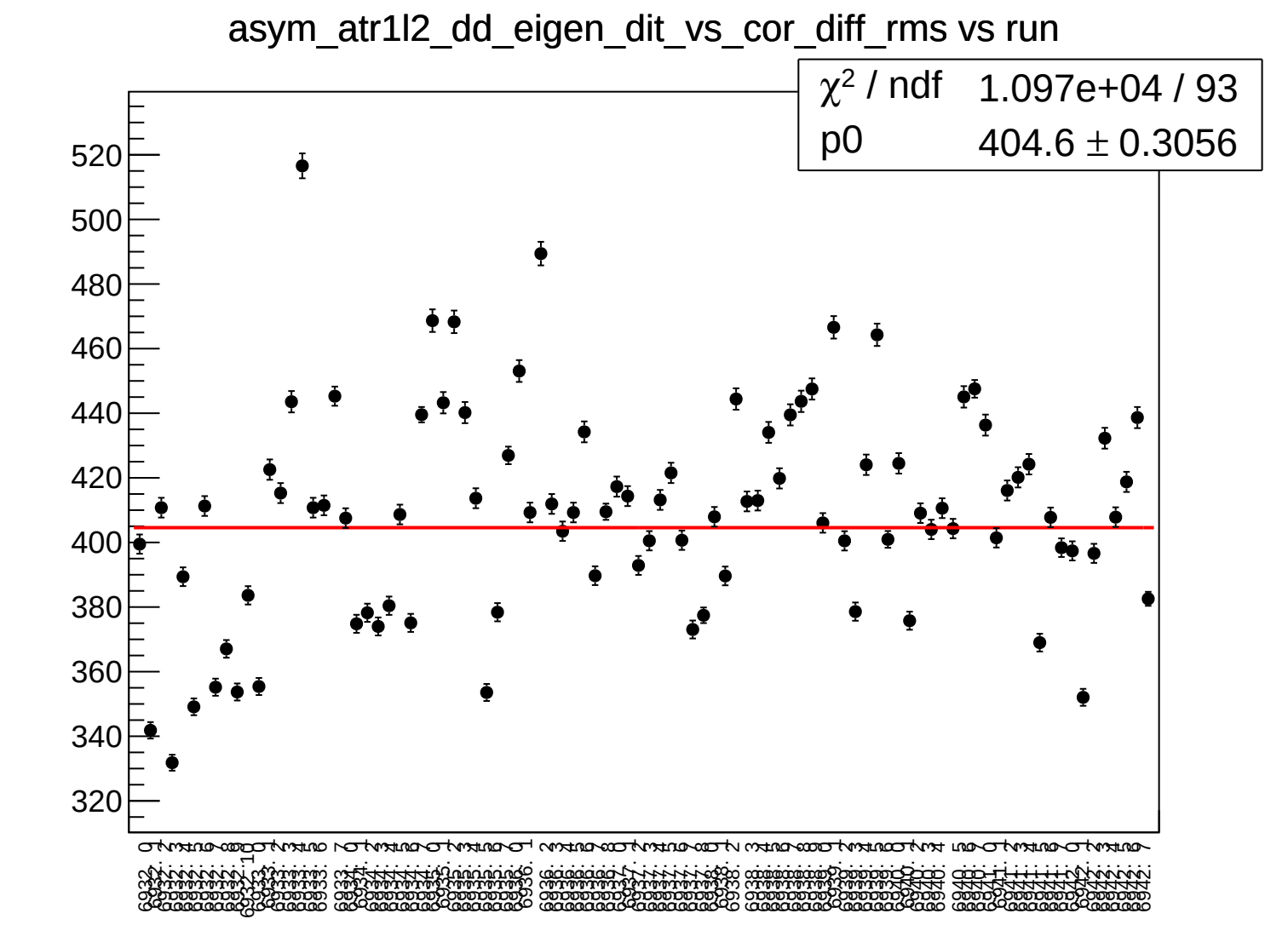

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.37 / 93
p0 −1.01e−05 ± 1.115e−05
pull
Entries 94
Mean 504.9
Std Dev 0

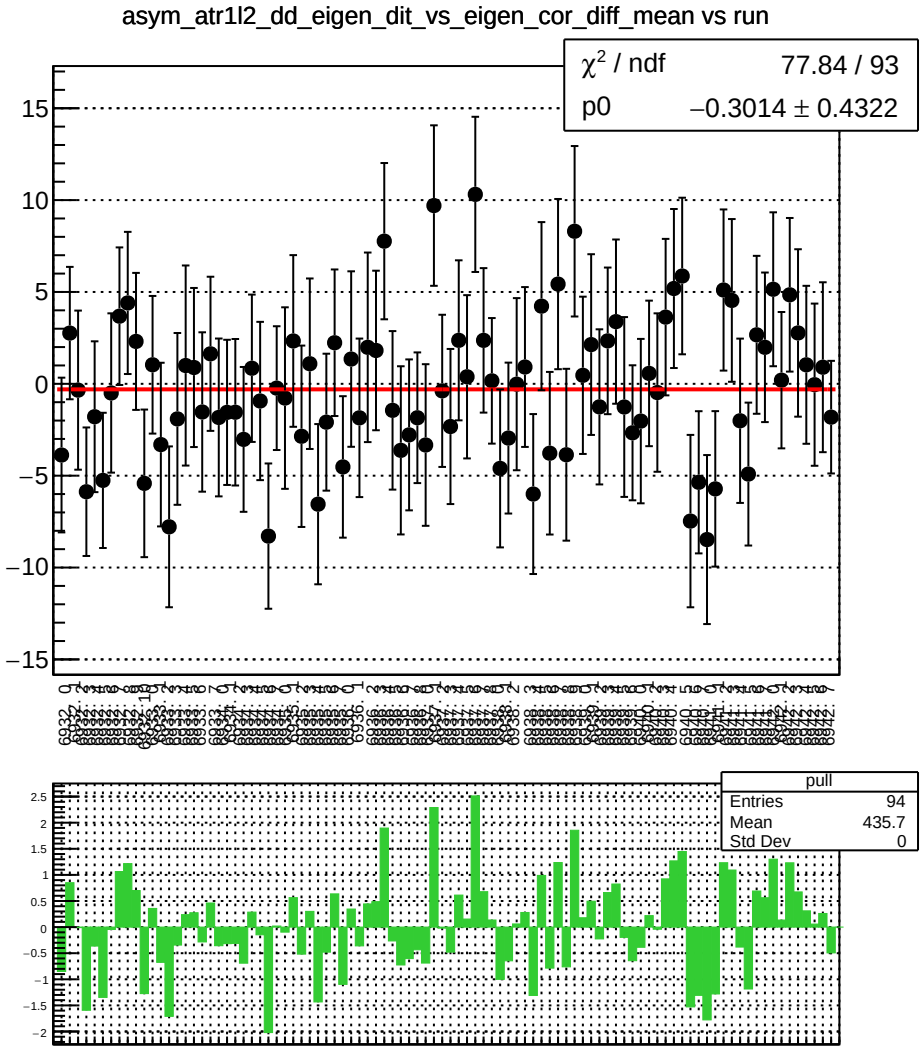

pull1D
Entries 94
Mean 0.004329
Std Dev 0.9805

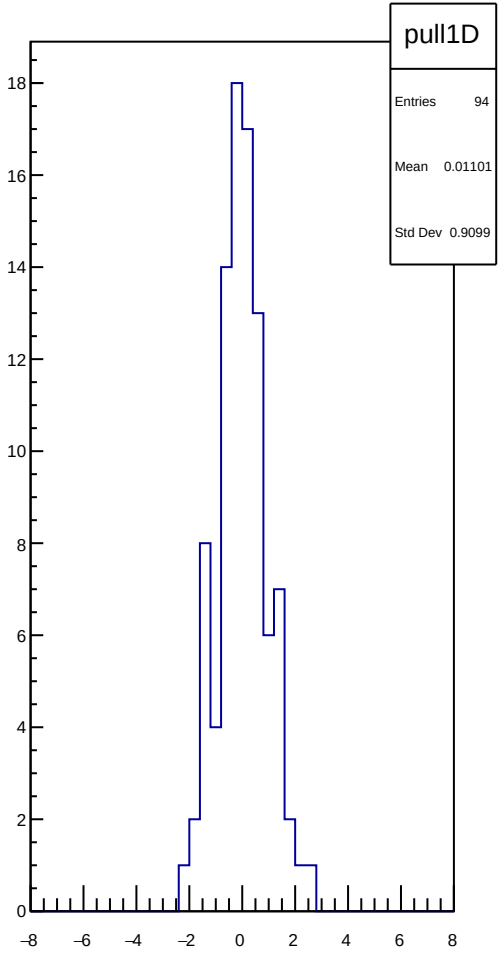

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4419 / 93
p0 0.01046 ± 7.882e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095

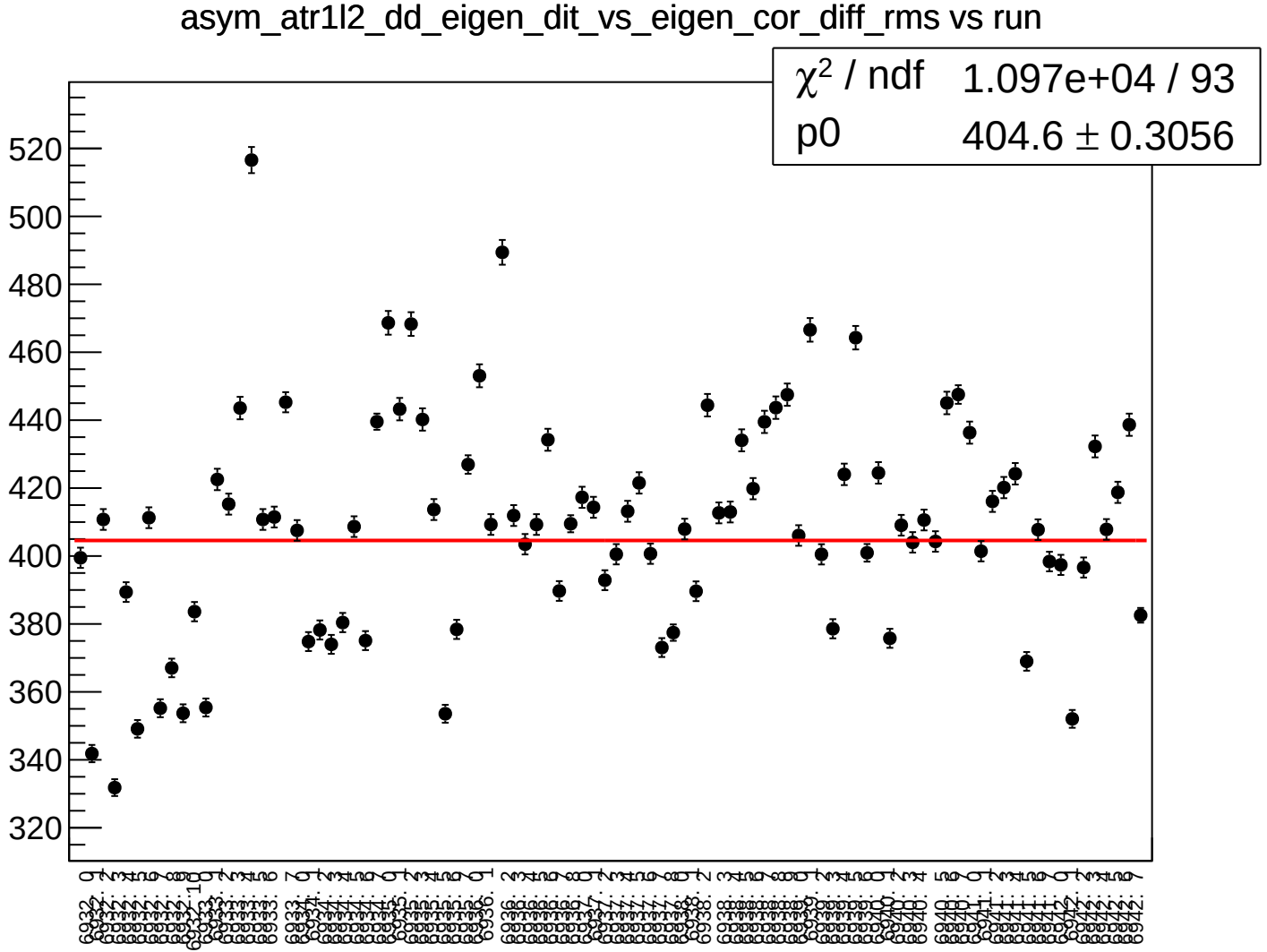

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.84 / 93
p0 −0.3014 ± 0.4322
pull
Entries 94
Mean 435.7
Std Dev 0

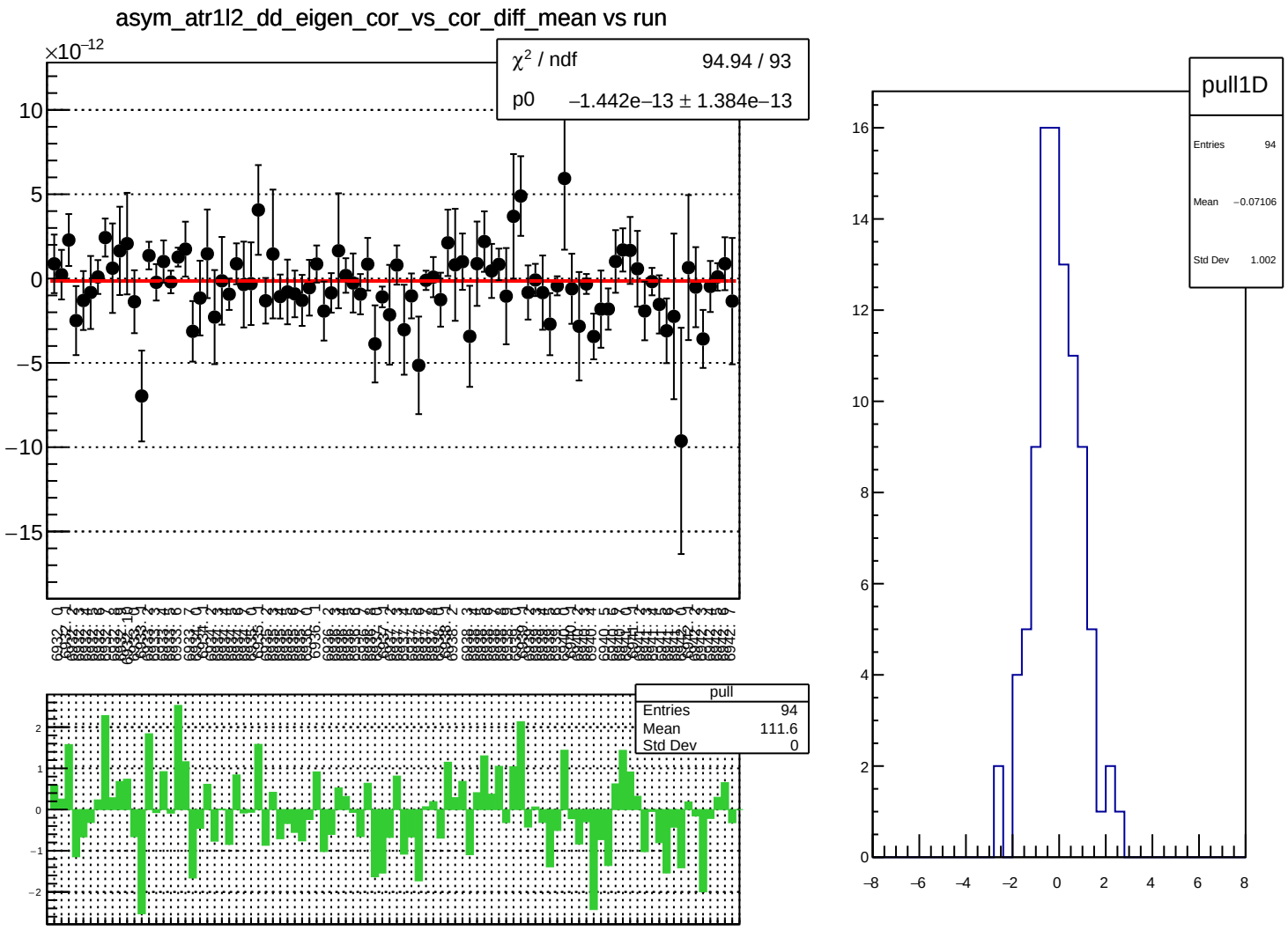

pull1D
Entries 94
Mean 0.01101
Std Dev 0.9099

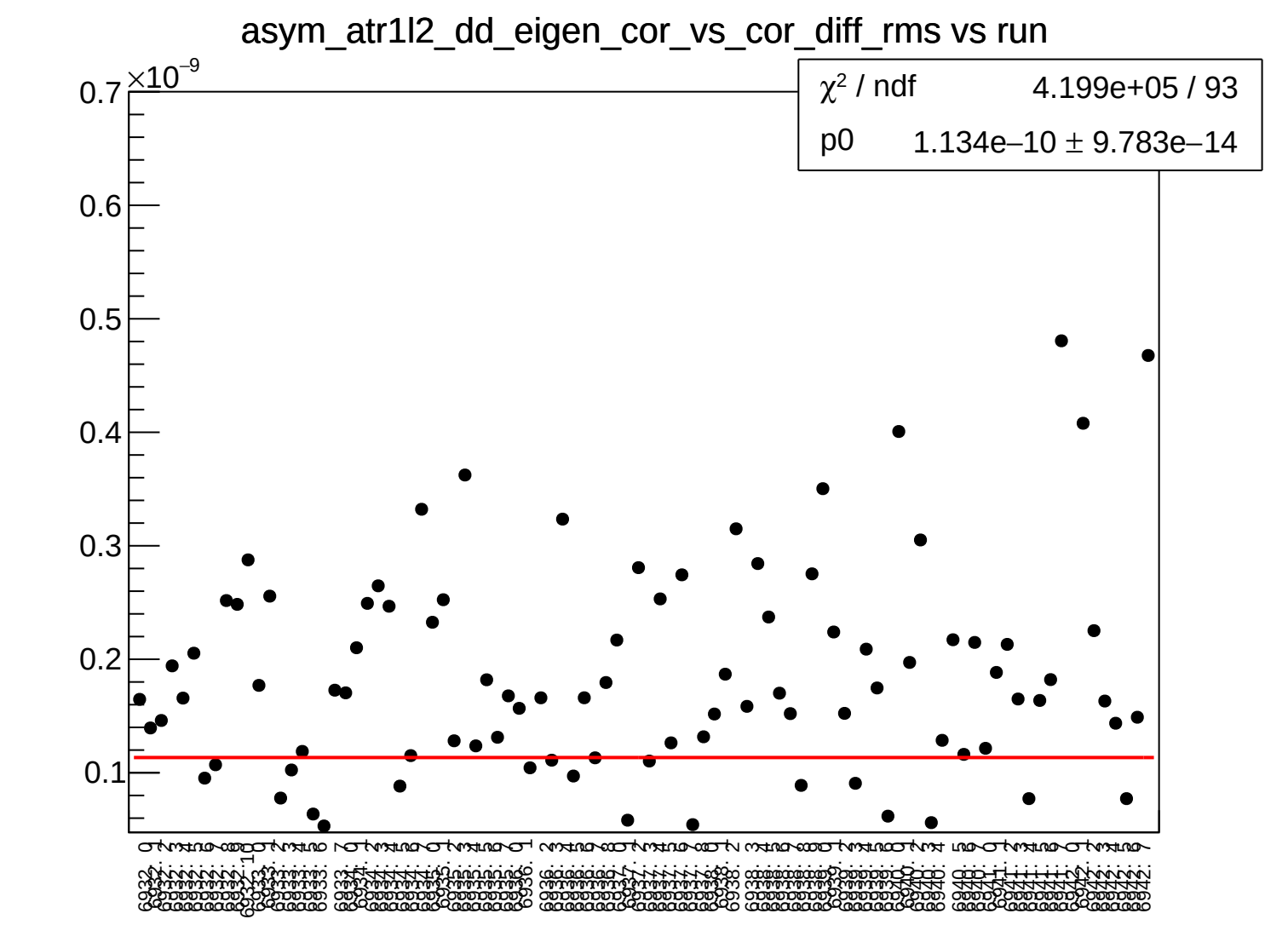

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.097e+04 / 93
p0 404.6 ± 0.3056
520
500
480
460
440
420
400
380
360
340
320

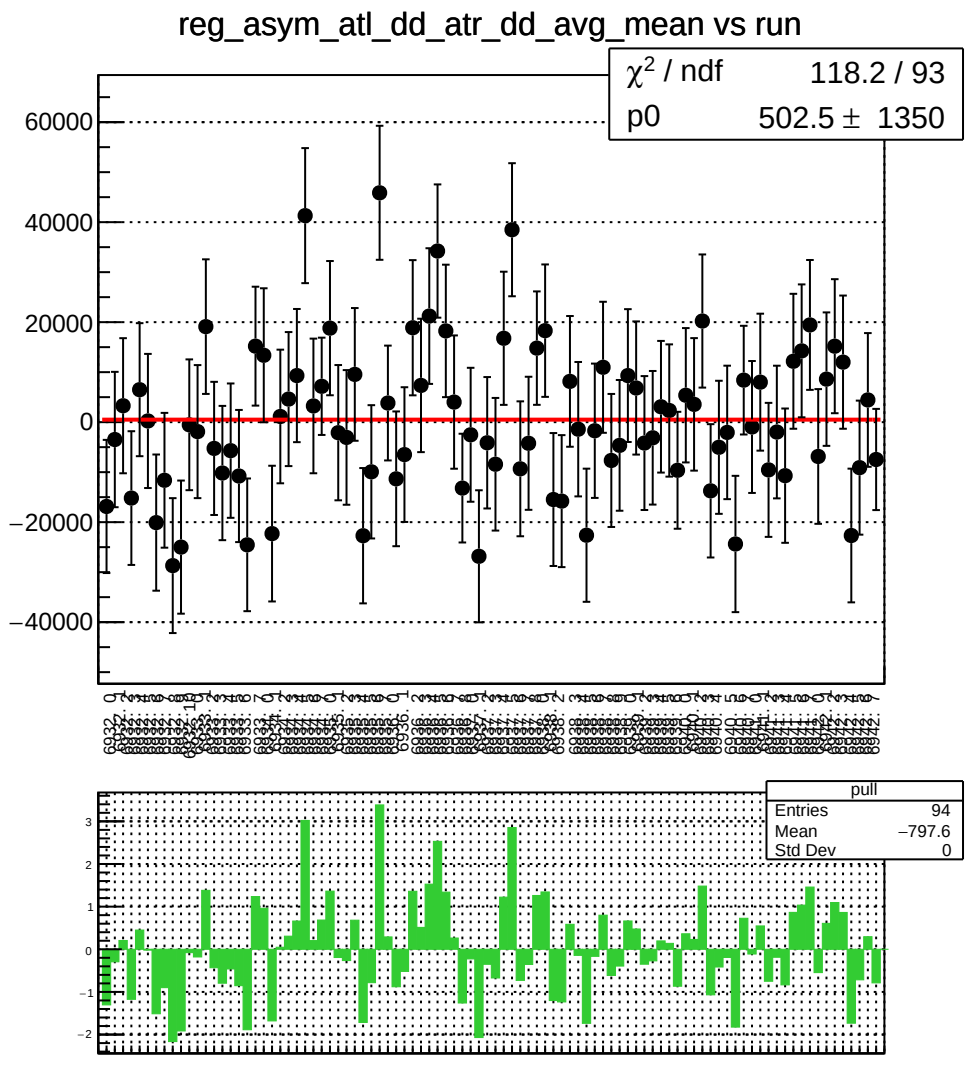

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.84 / 93
p0 −0.3014 ± 0.4322
pull
Entries 94
Mean 435.7
Std Dev 0

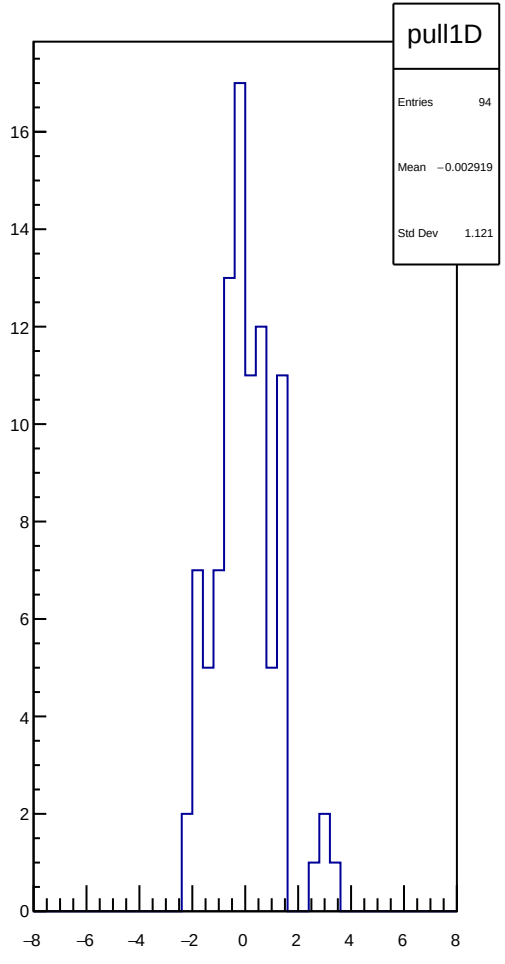

pull1D
Entries 94
Mean 0.01101
Std Dev 0.9099

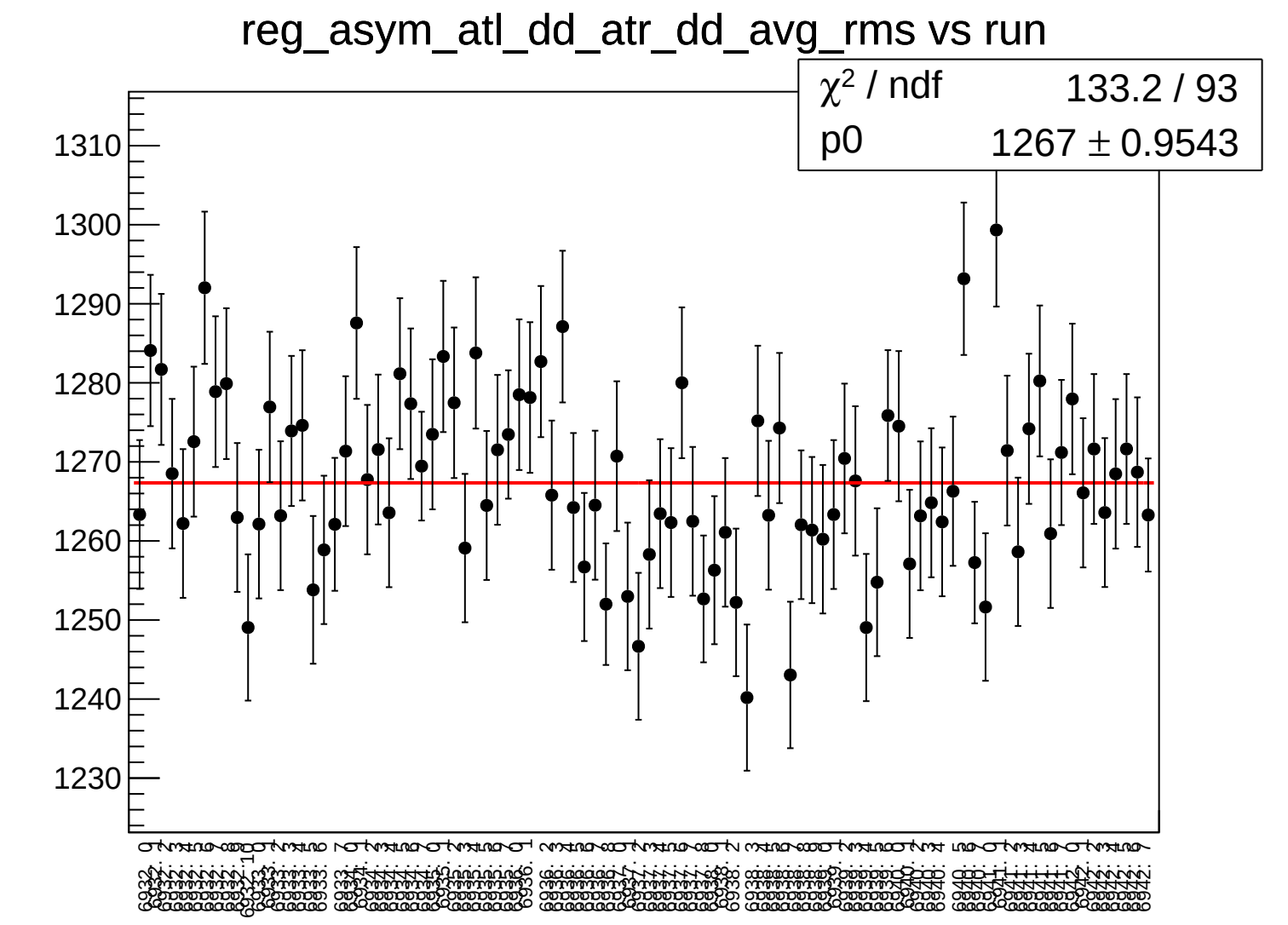

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.097e+04 / 93
p0 404.6 ± 0.3056
520
500
480
460
440
420
400
380
360
340
320

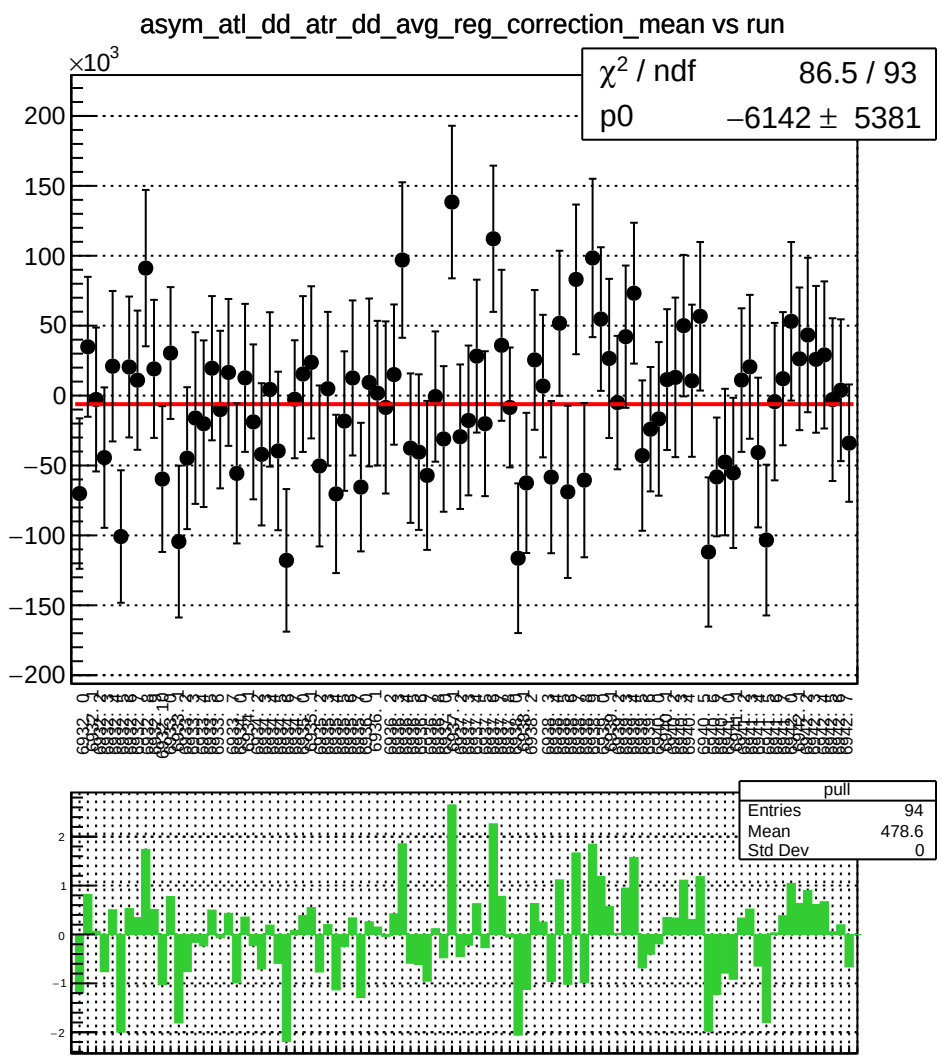

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.94 / 93
p0 −1.442e−13 ± 1.384e−13
pull
Entries 94
Mean 111.6
Std Dev 0
pull1D
Entries 94
Mean −0.07106
Std Dev 1.002

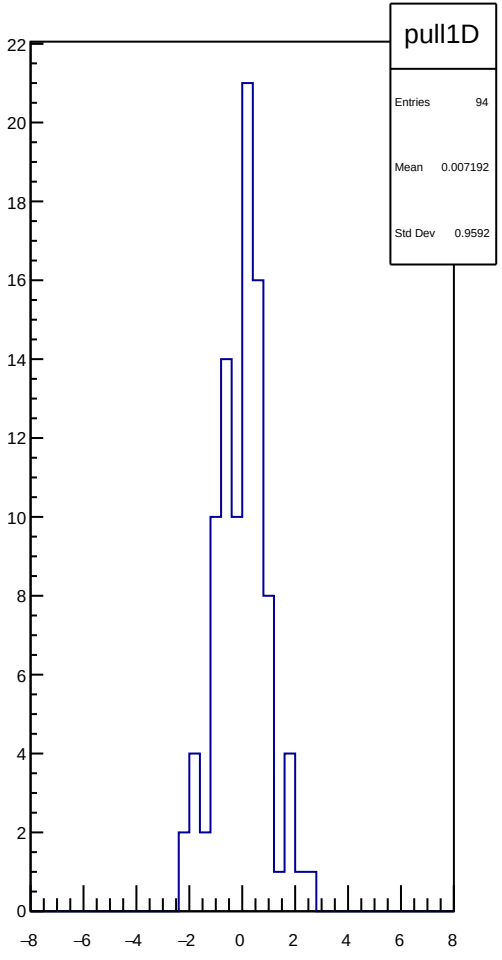

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.199e+05 / 93
p0 1.134e−10 ± 9.783e−14

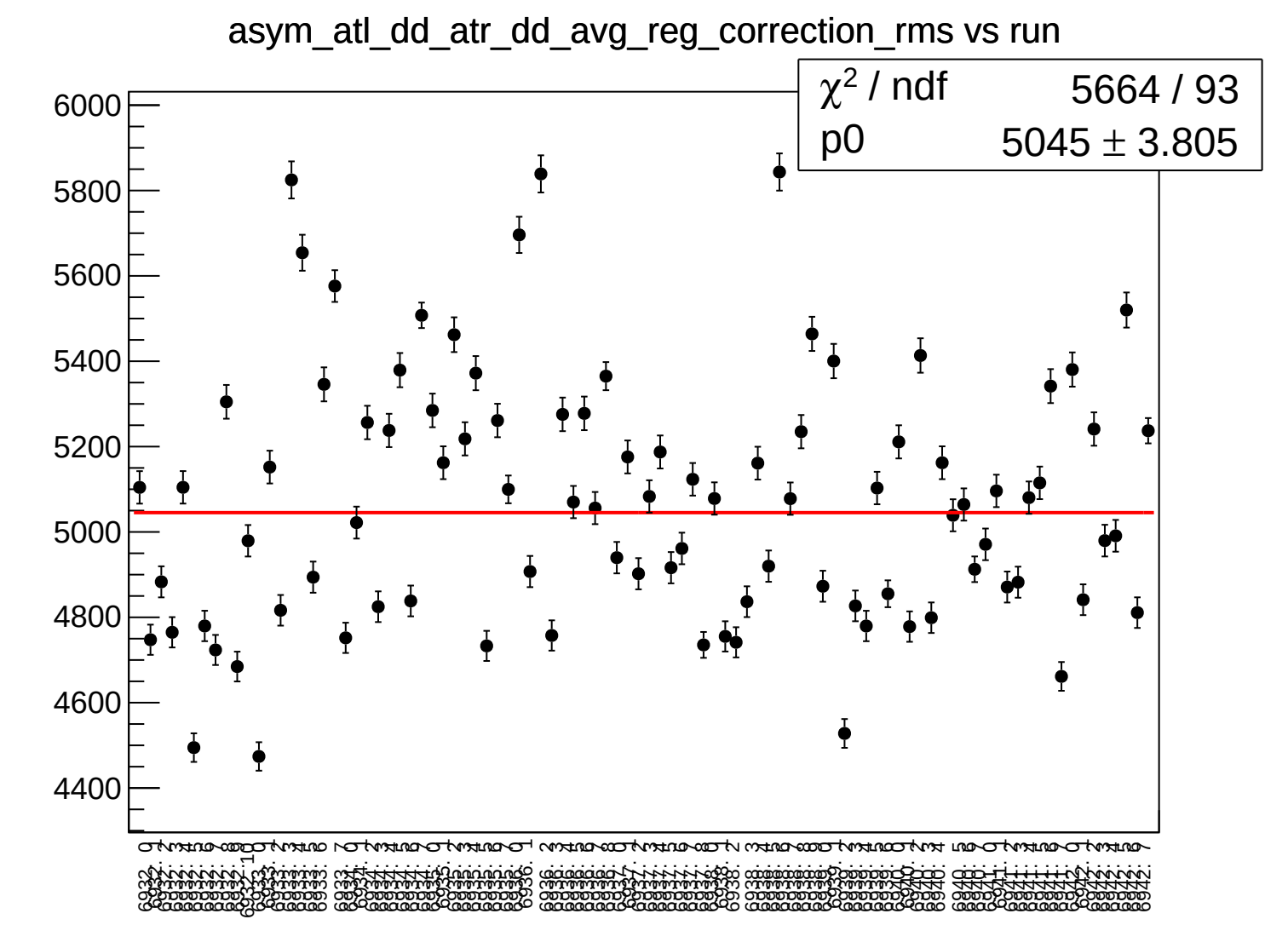

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 118.2 / 93
p0 502.5 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

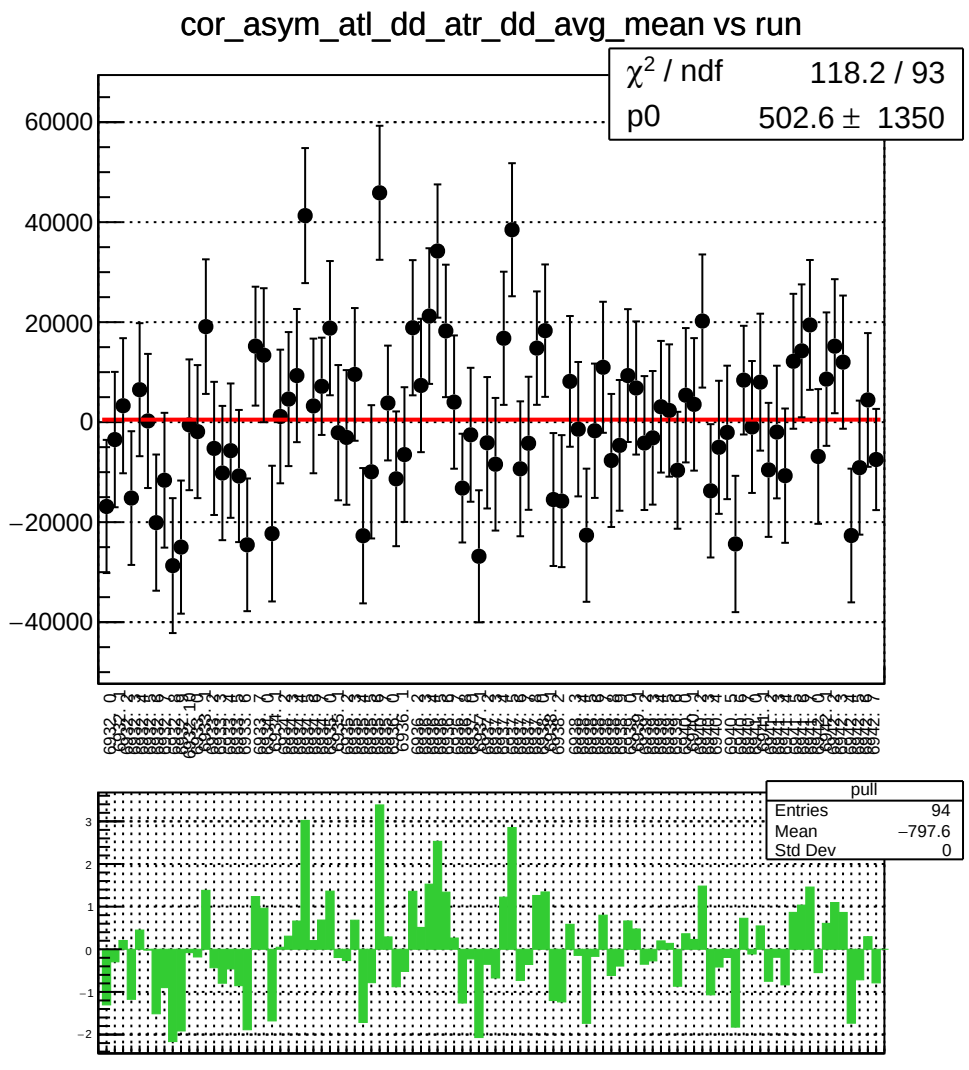

pull1D
Entries 94
Mean −0.002919
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

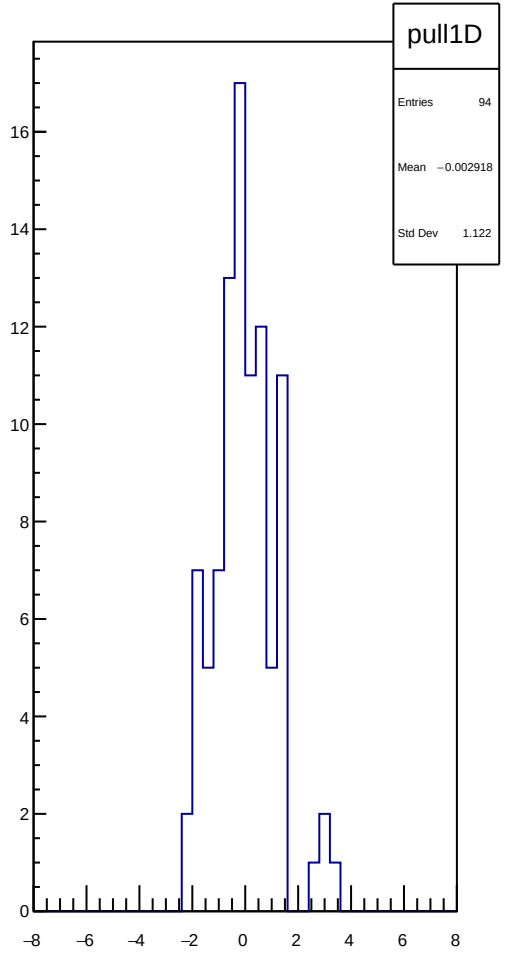

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

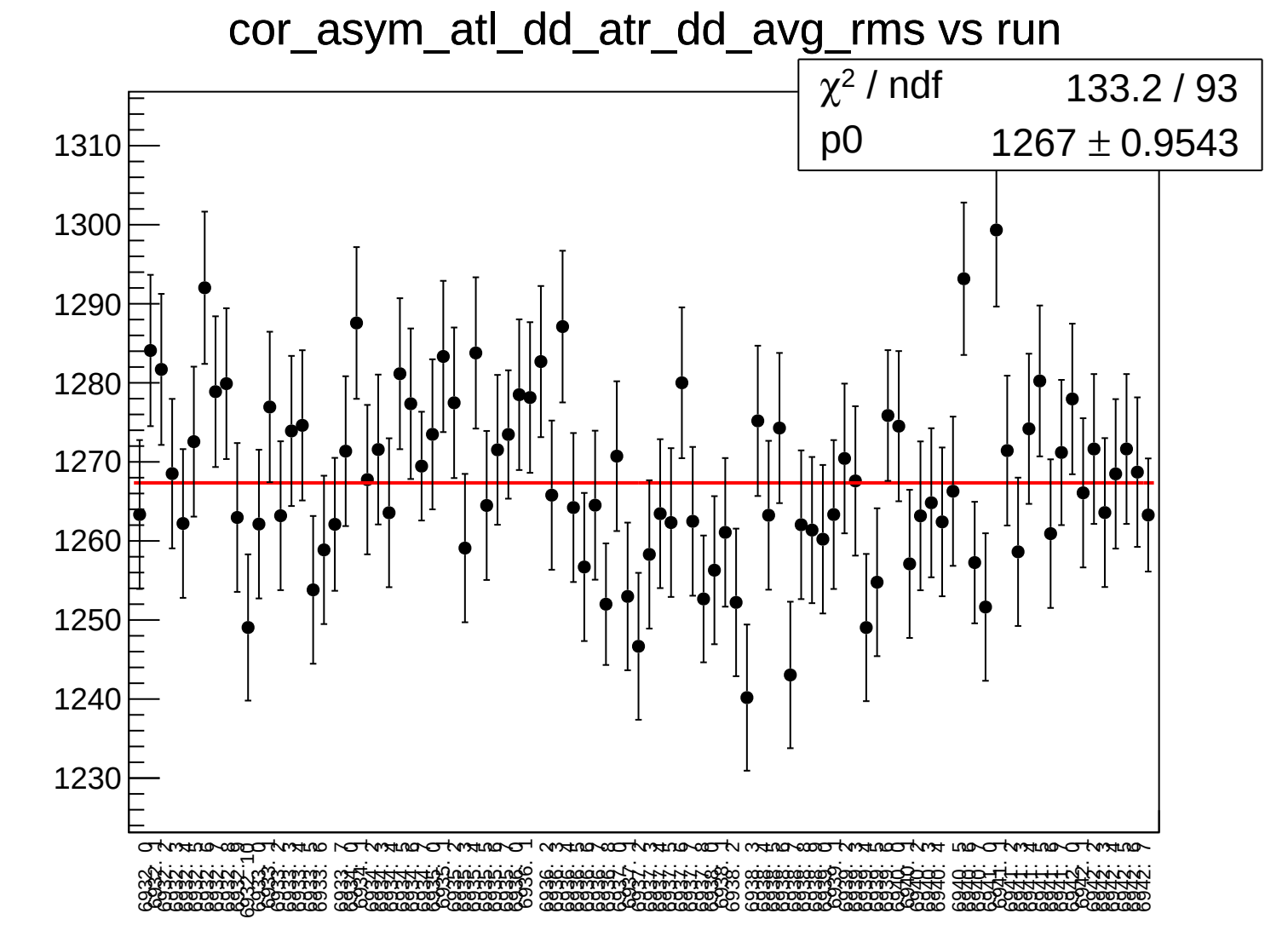

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.6
Std Dev 0

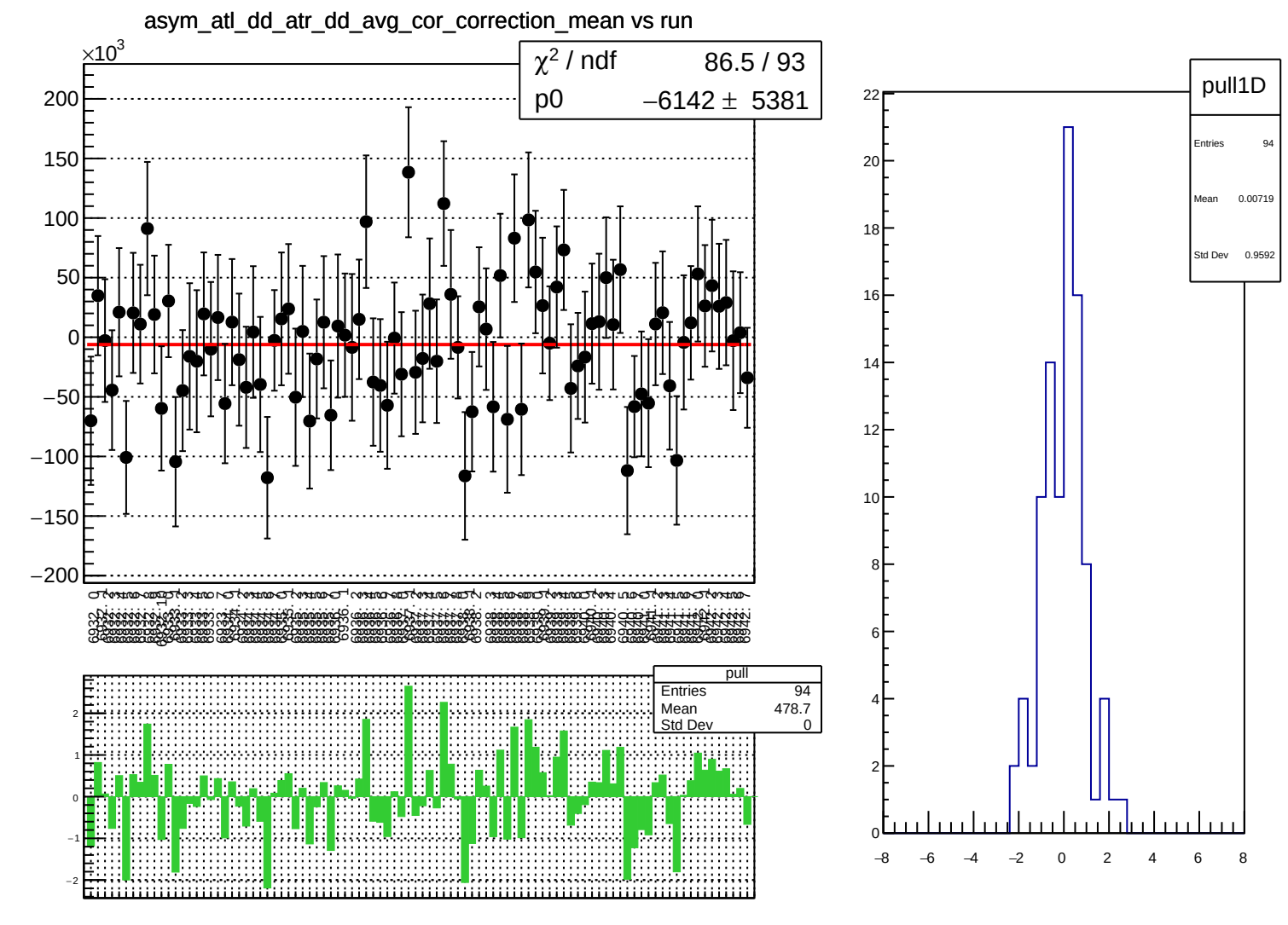

pull1D
Entries 94
Mean 0.007192
Std Dev 0.9592

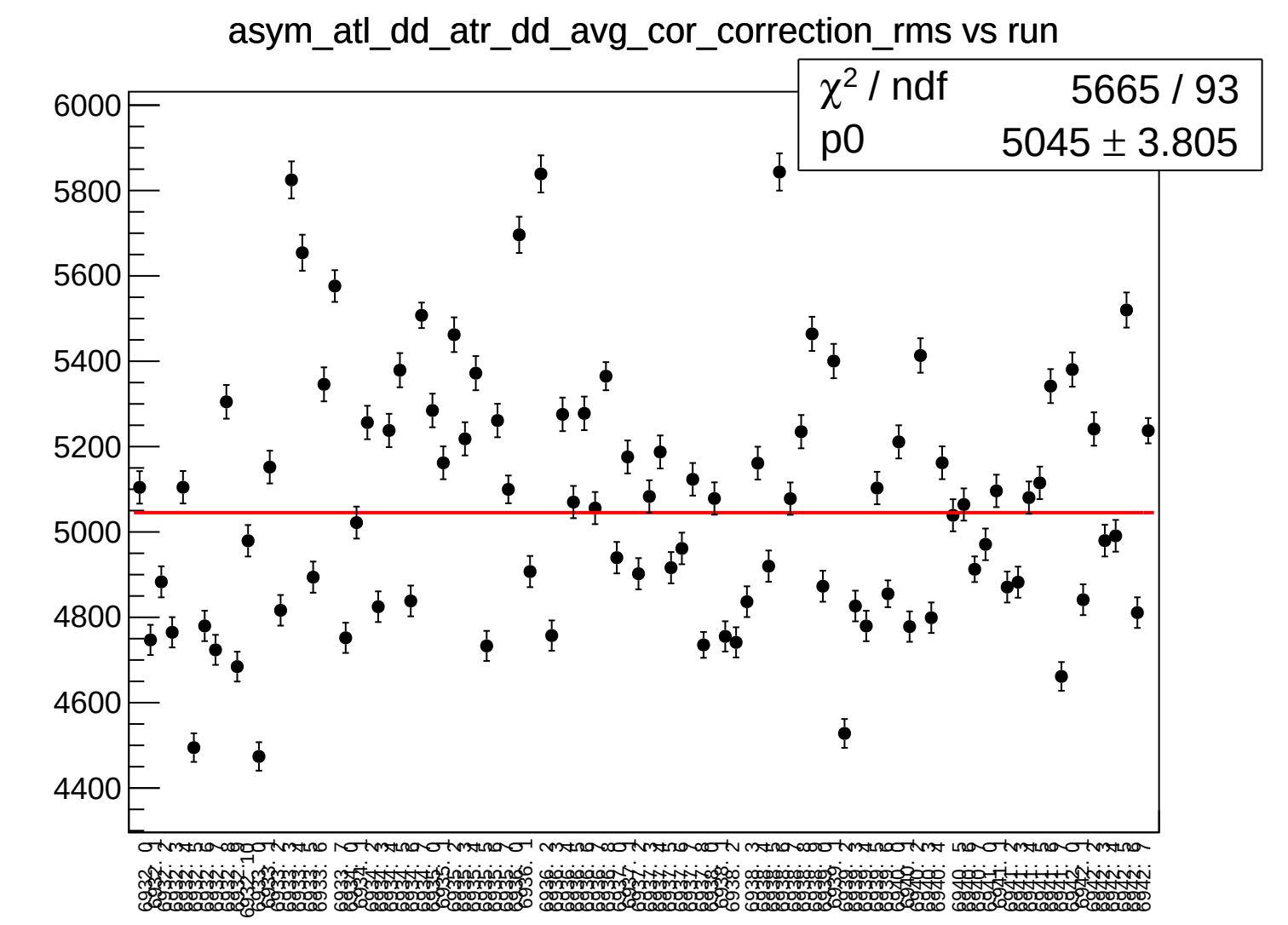

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 5664 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

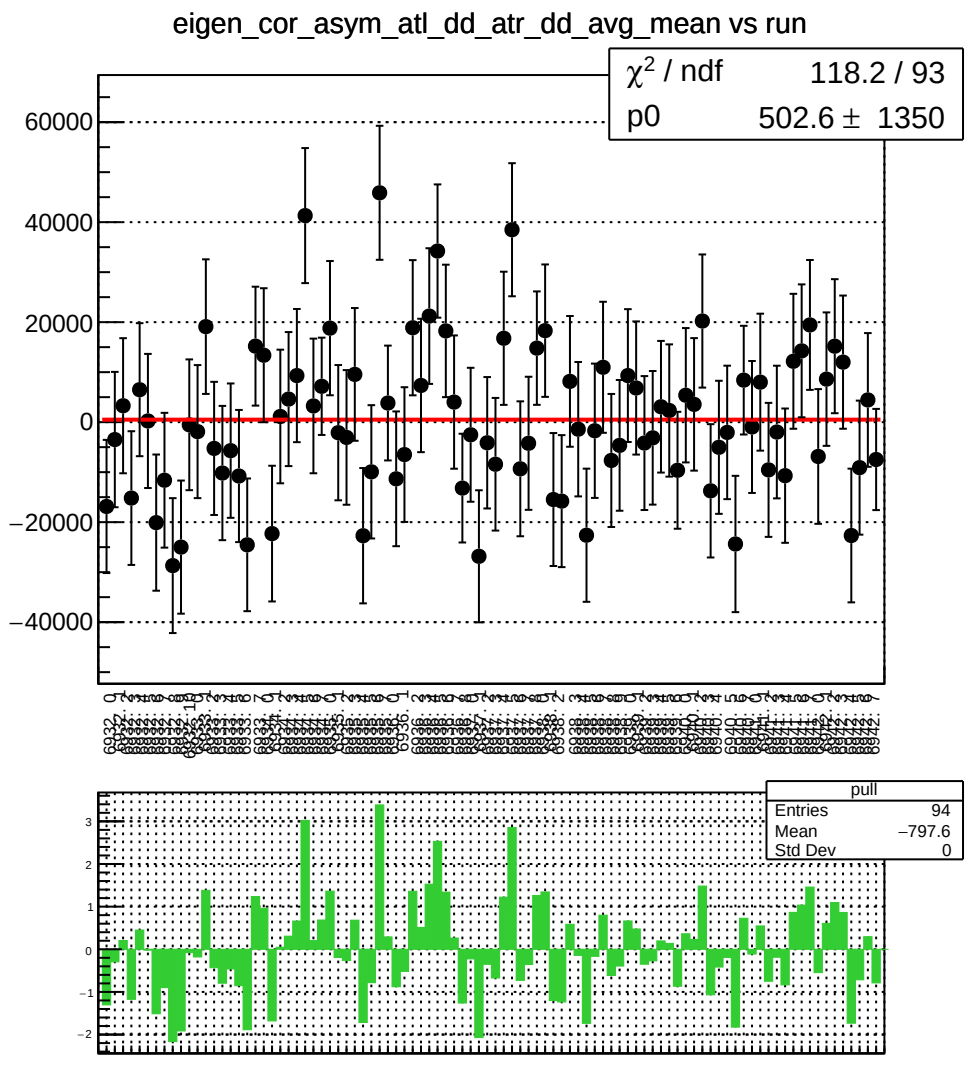

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

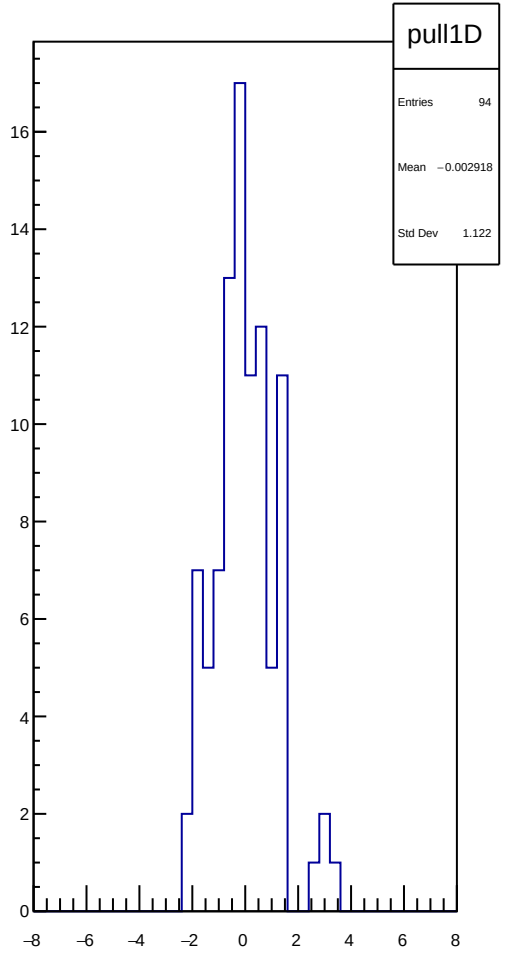

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

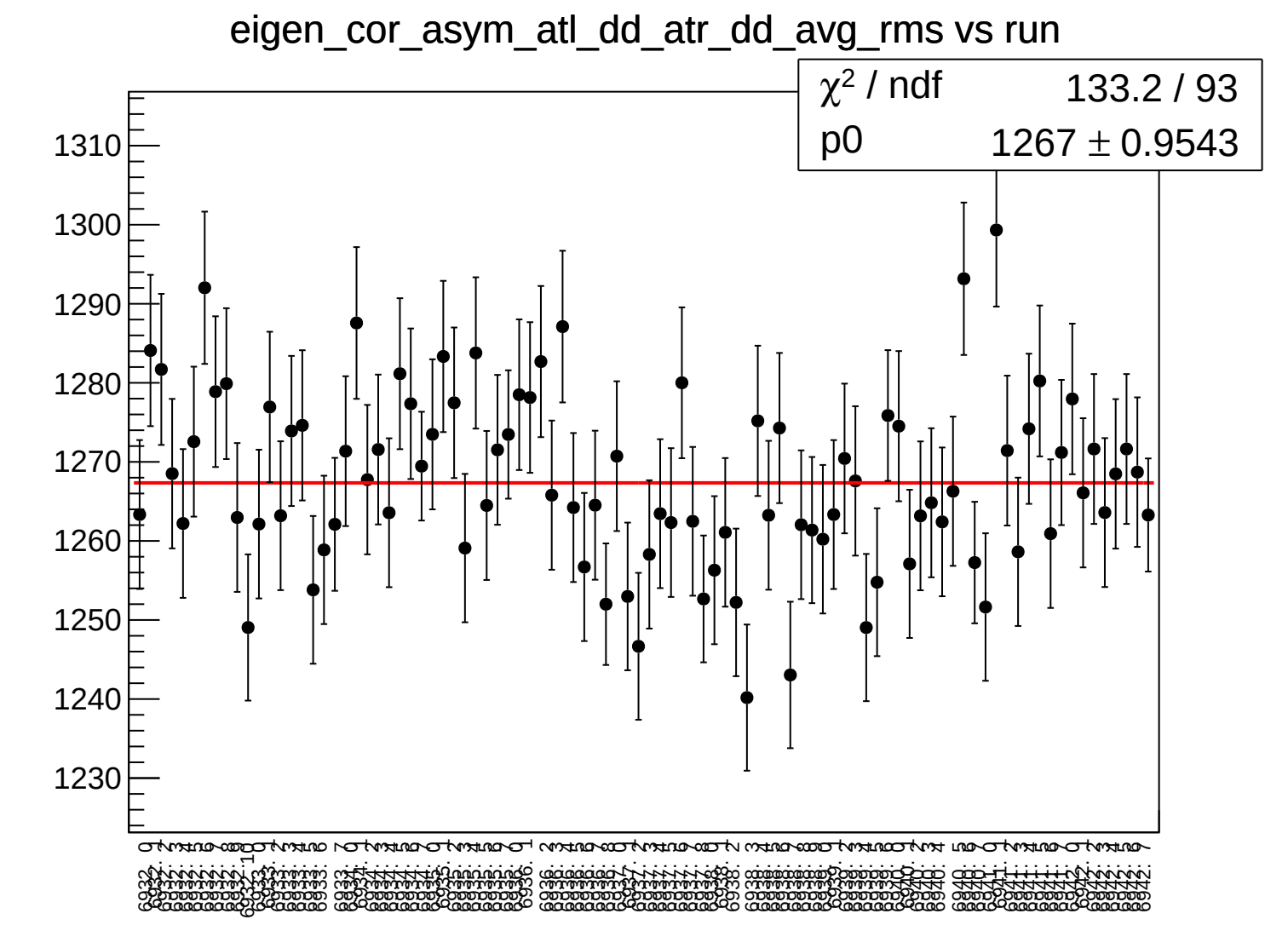

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

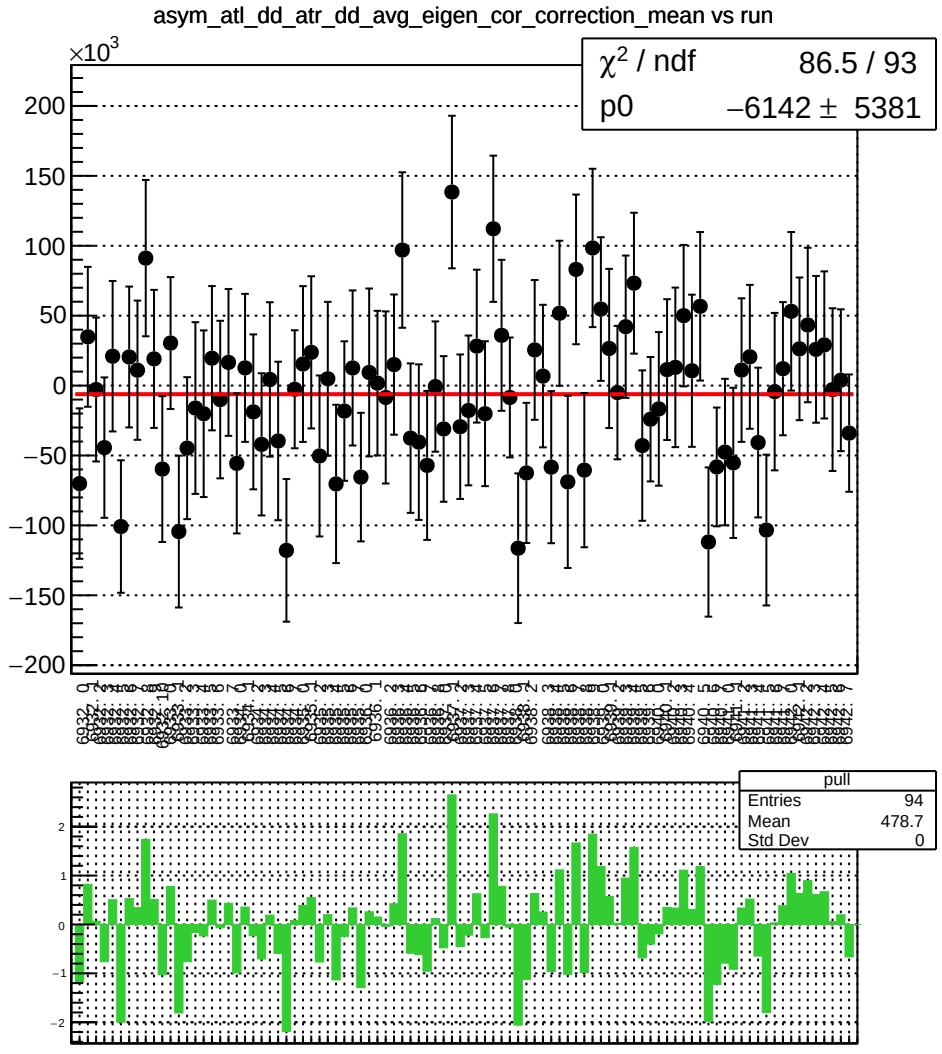

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.7
Std Dev 0
pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592

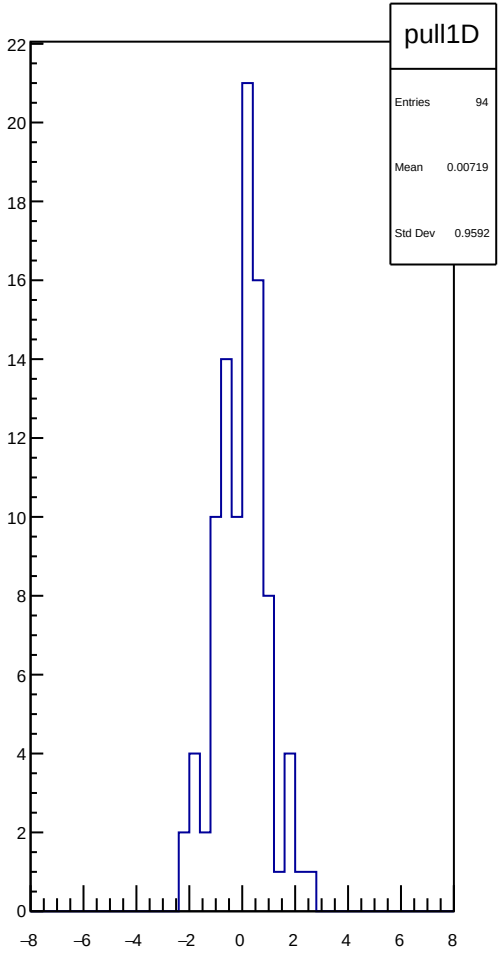

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

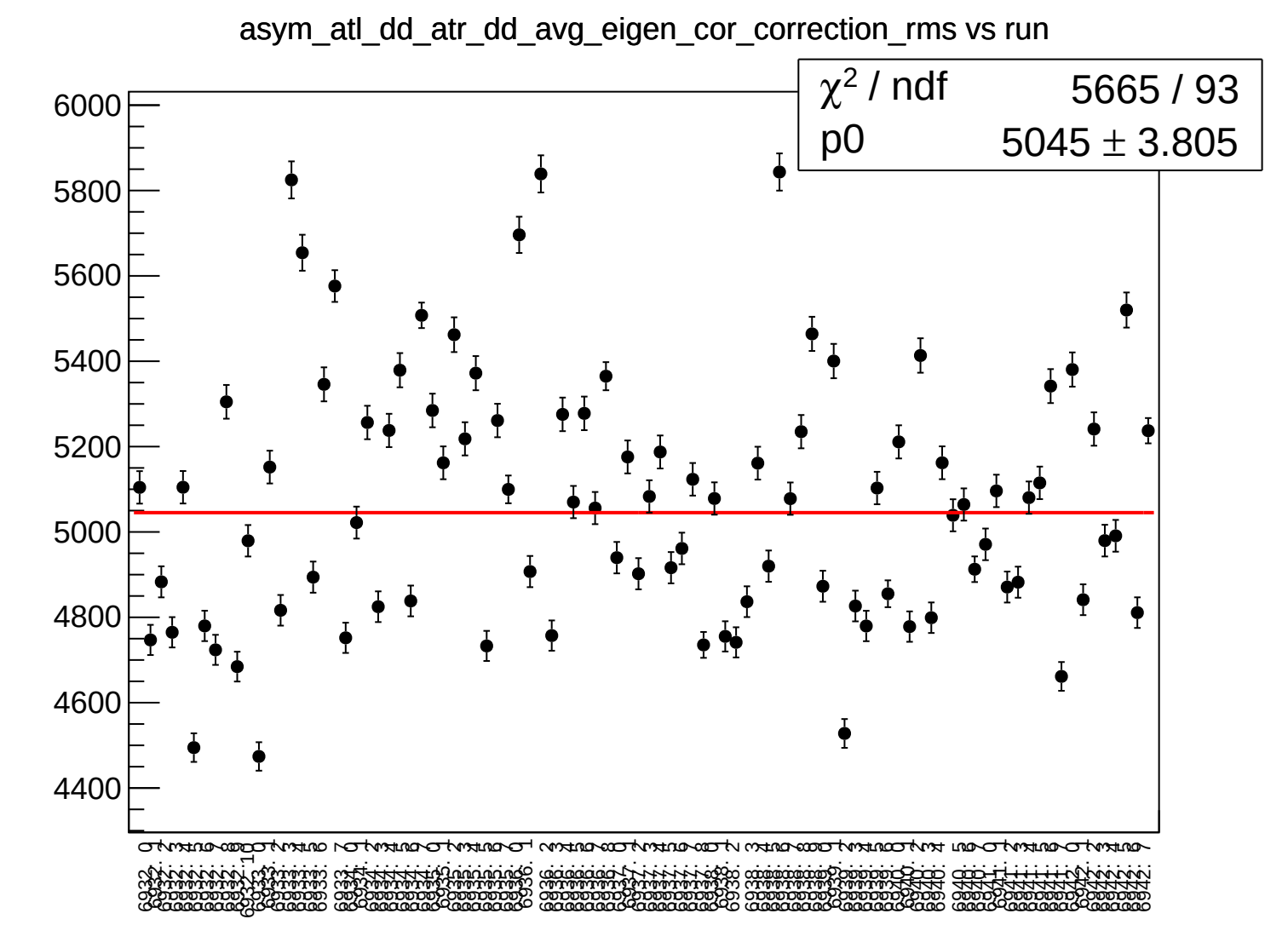

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

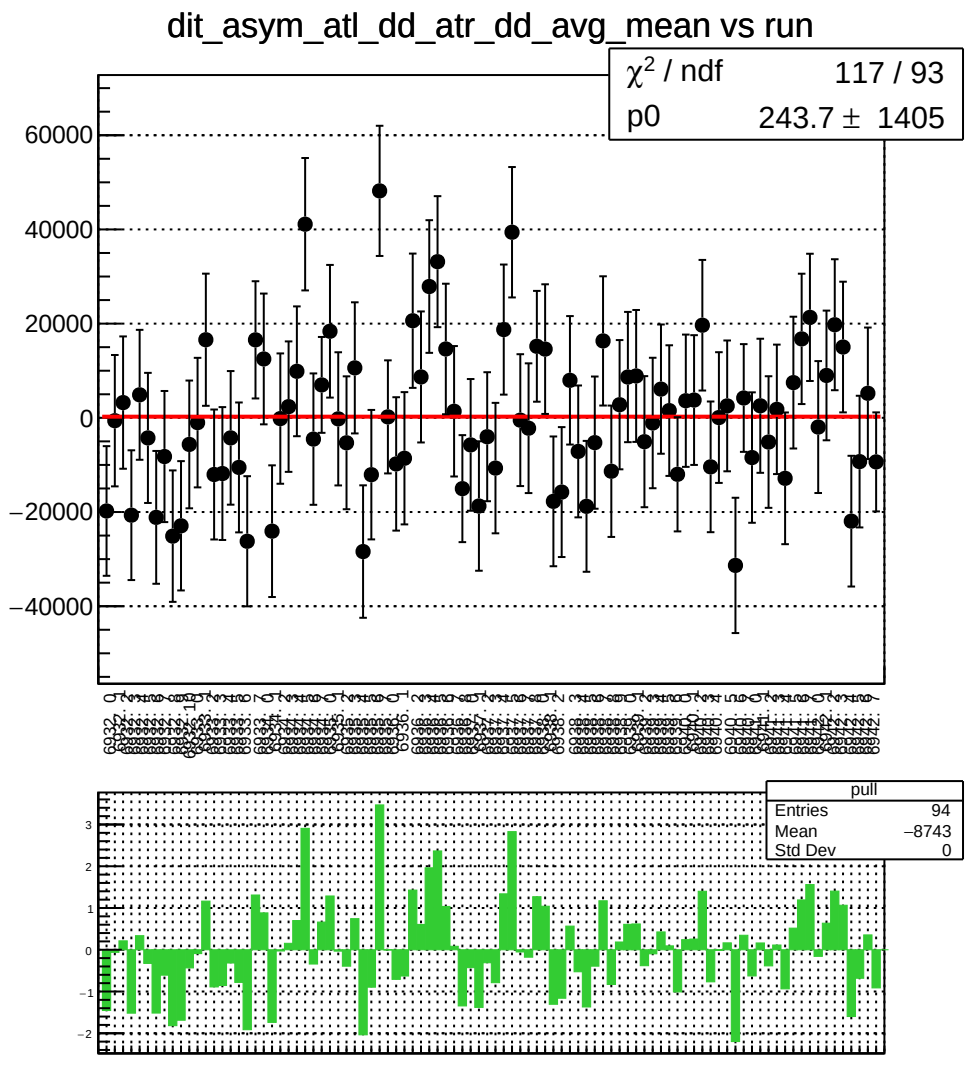

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

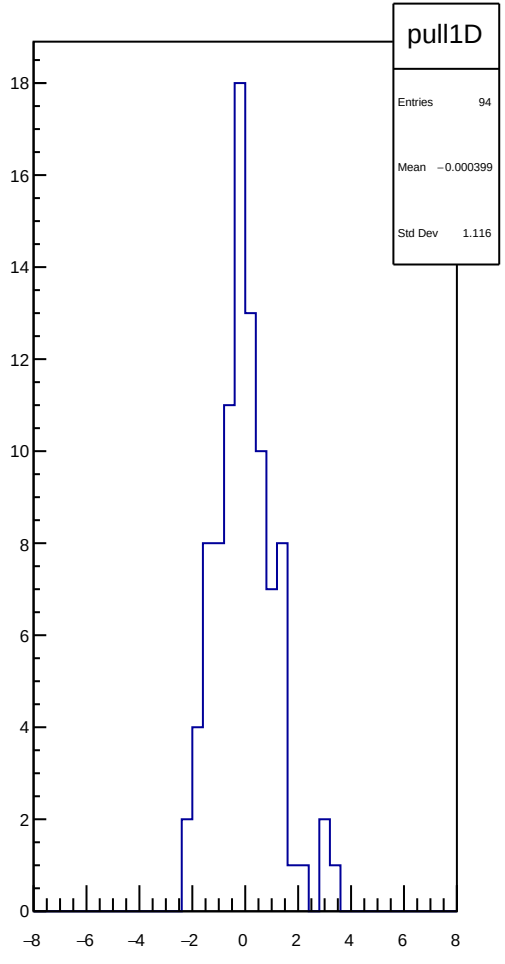

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

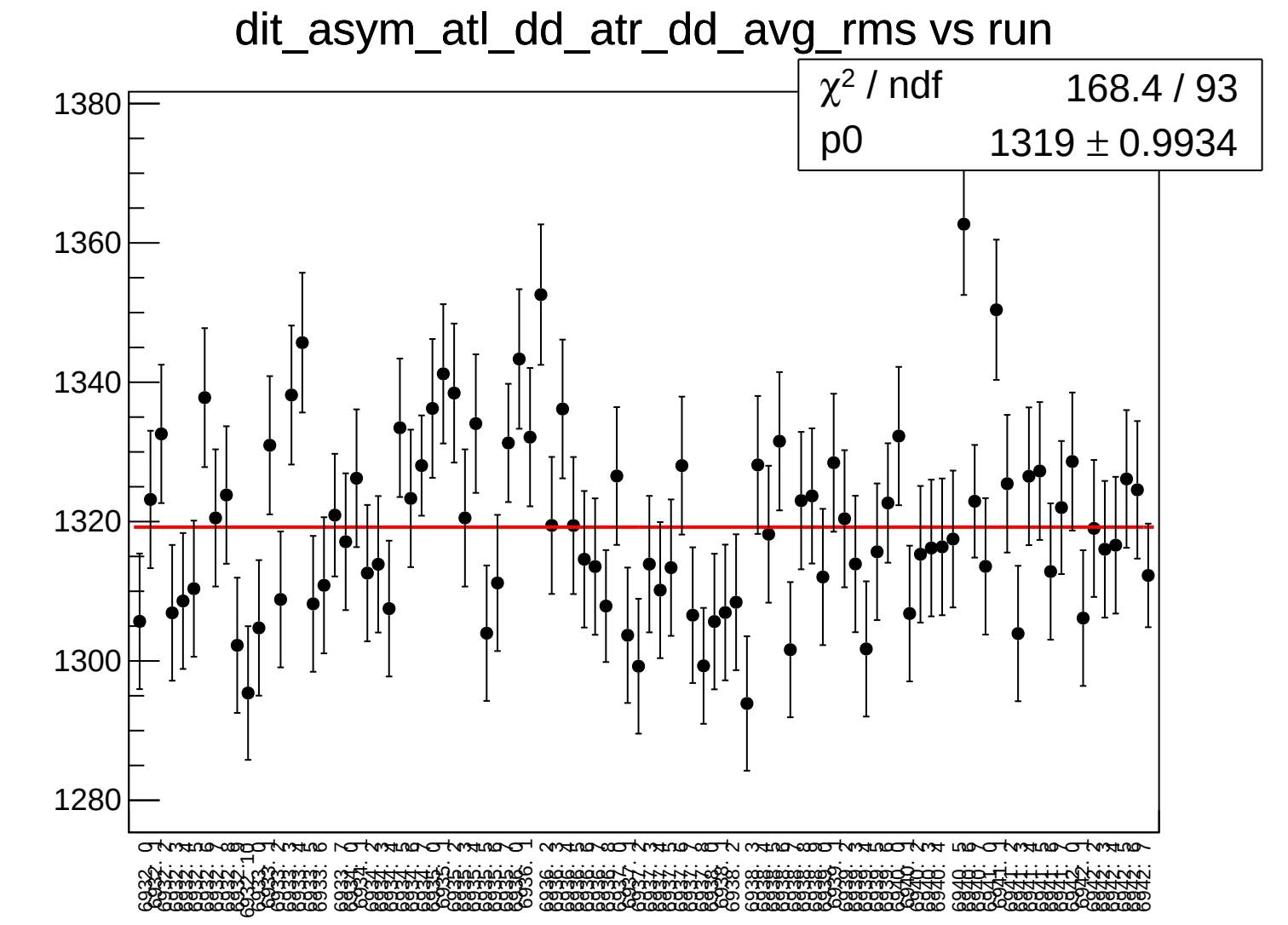

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 478.7
Std Dev 0
2
1
0
−1
−2

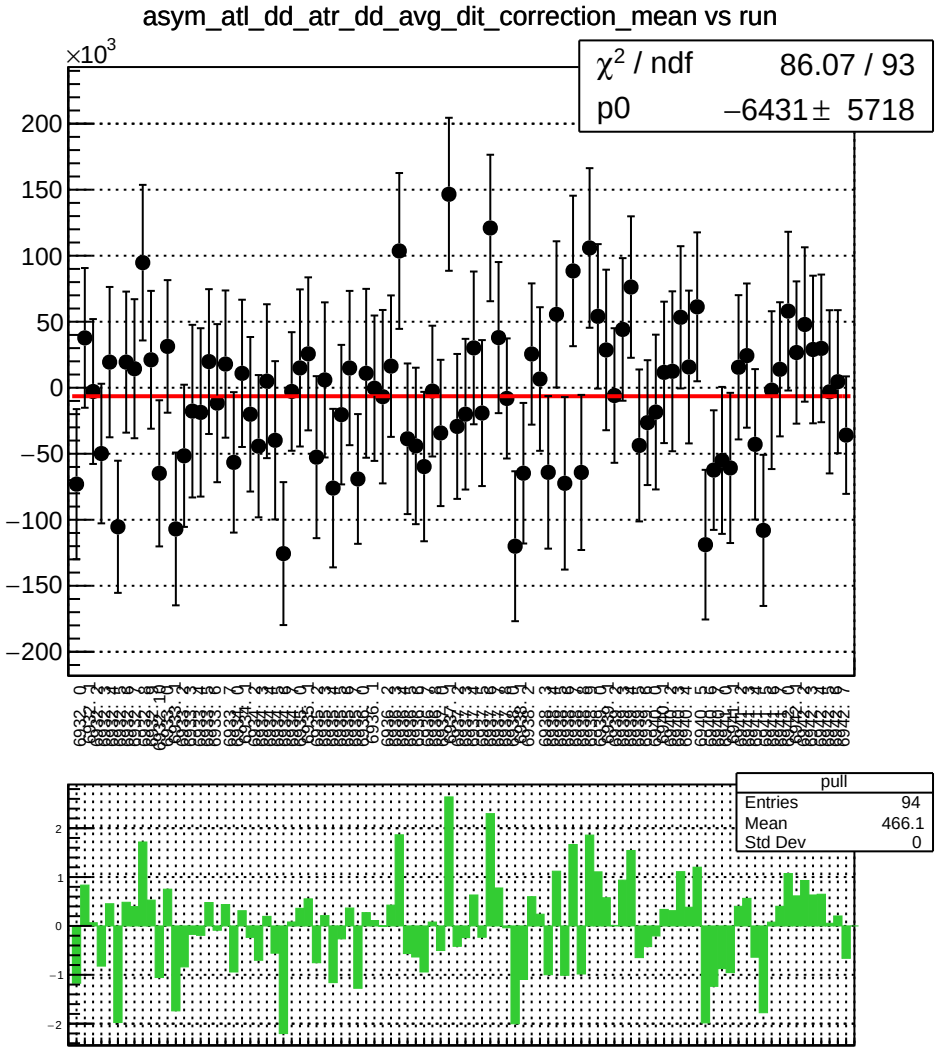

pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

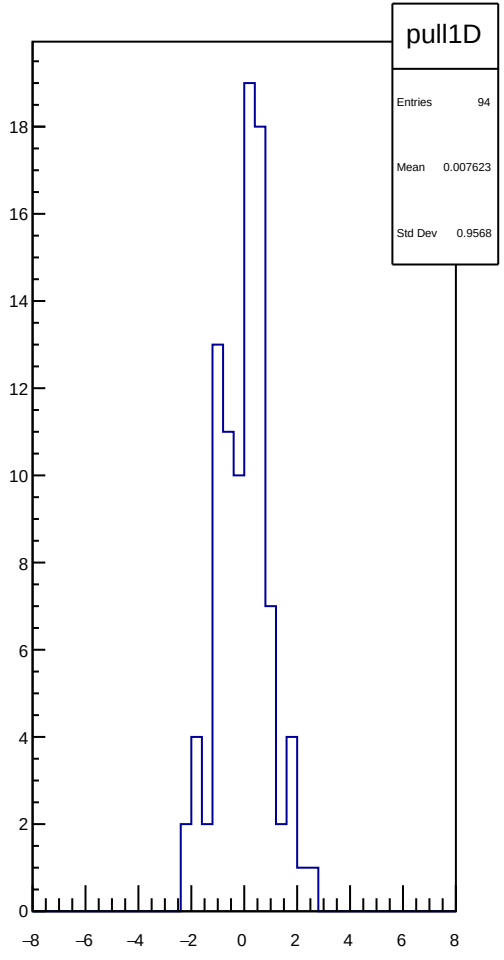

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

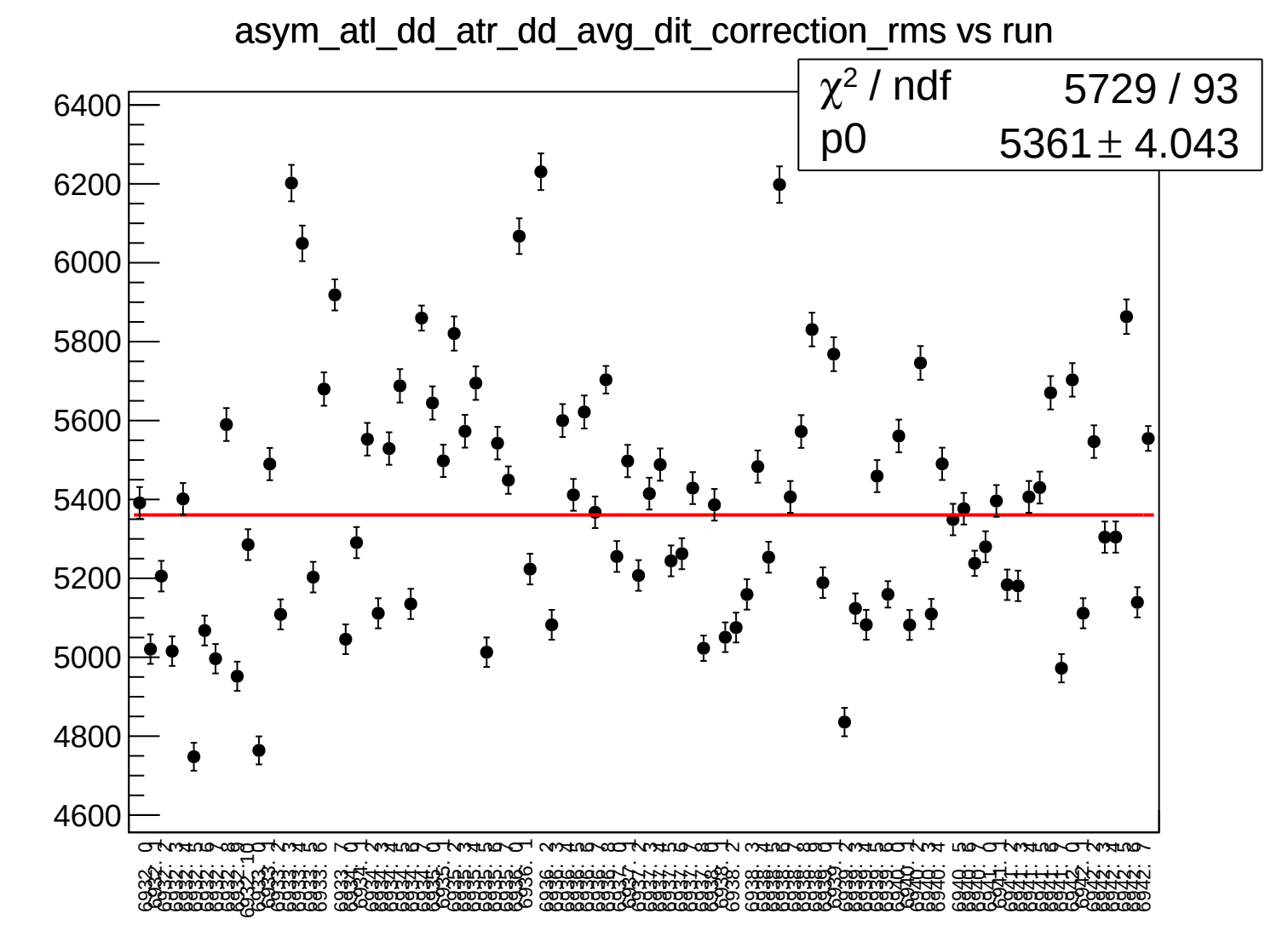

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

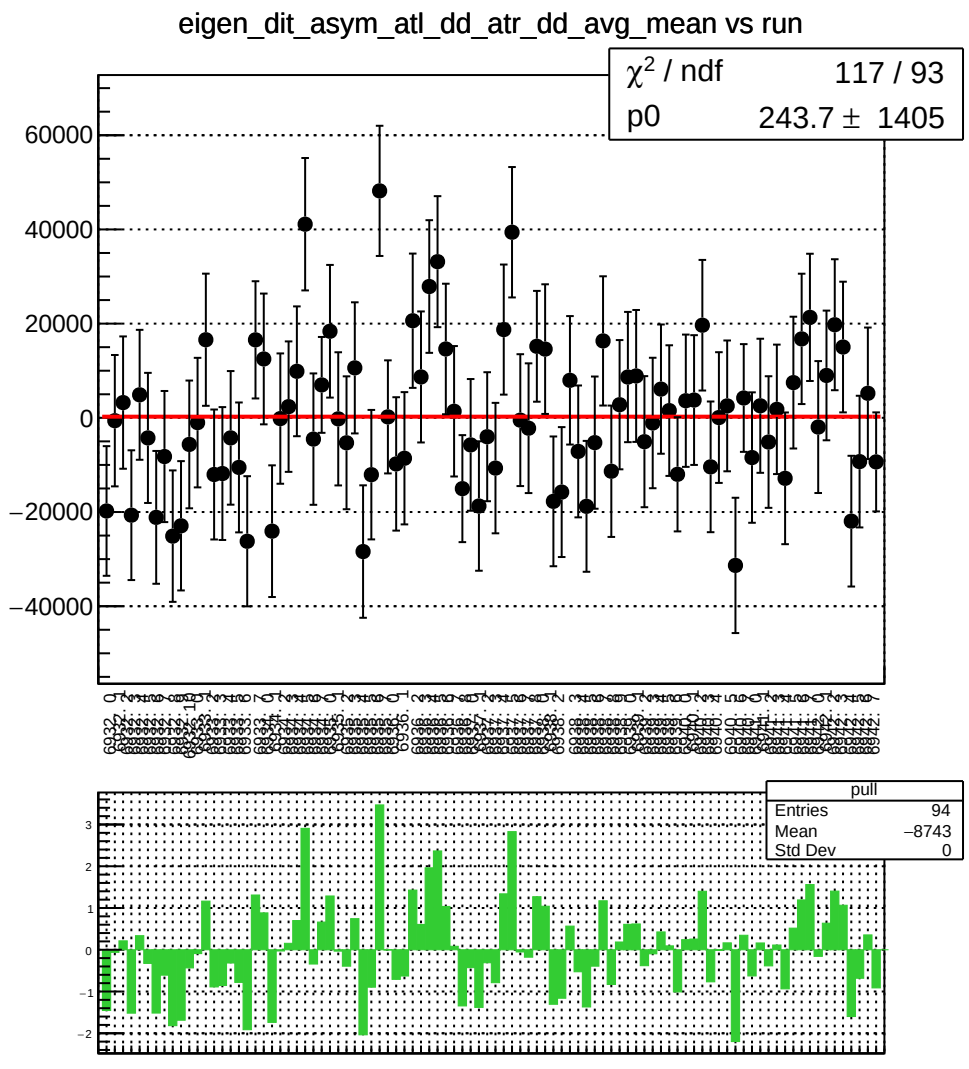

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

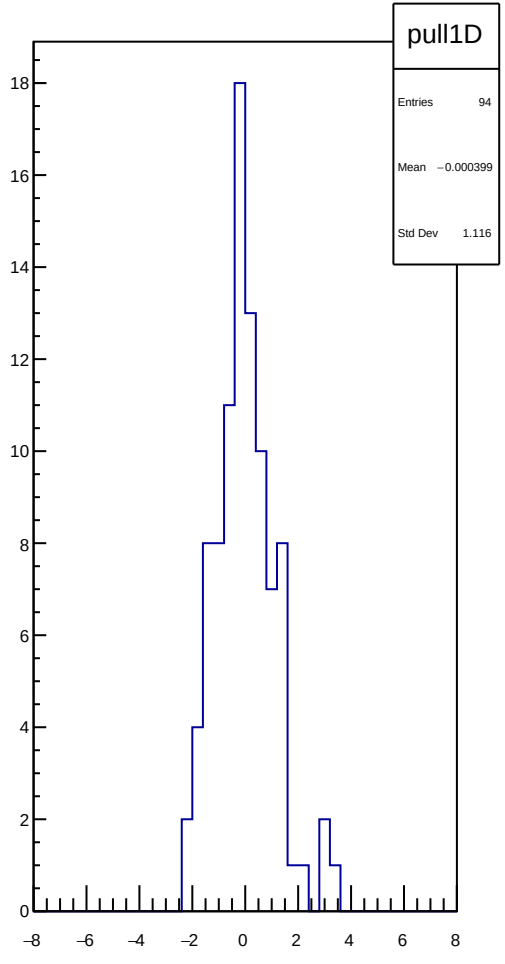

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

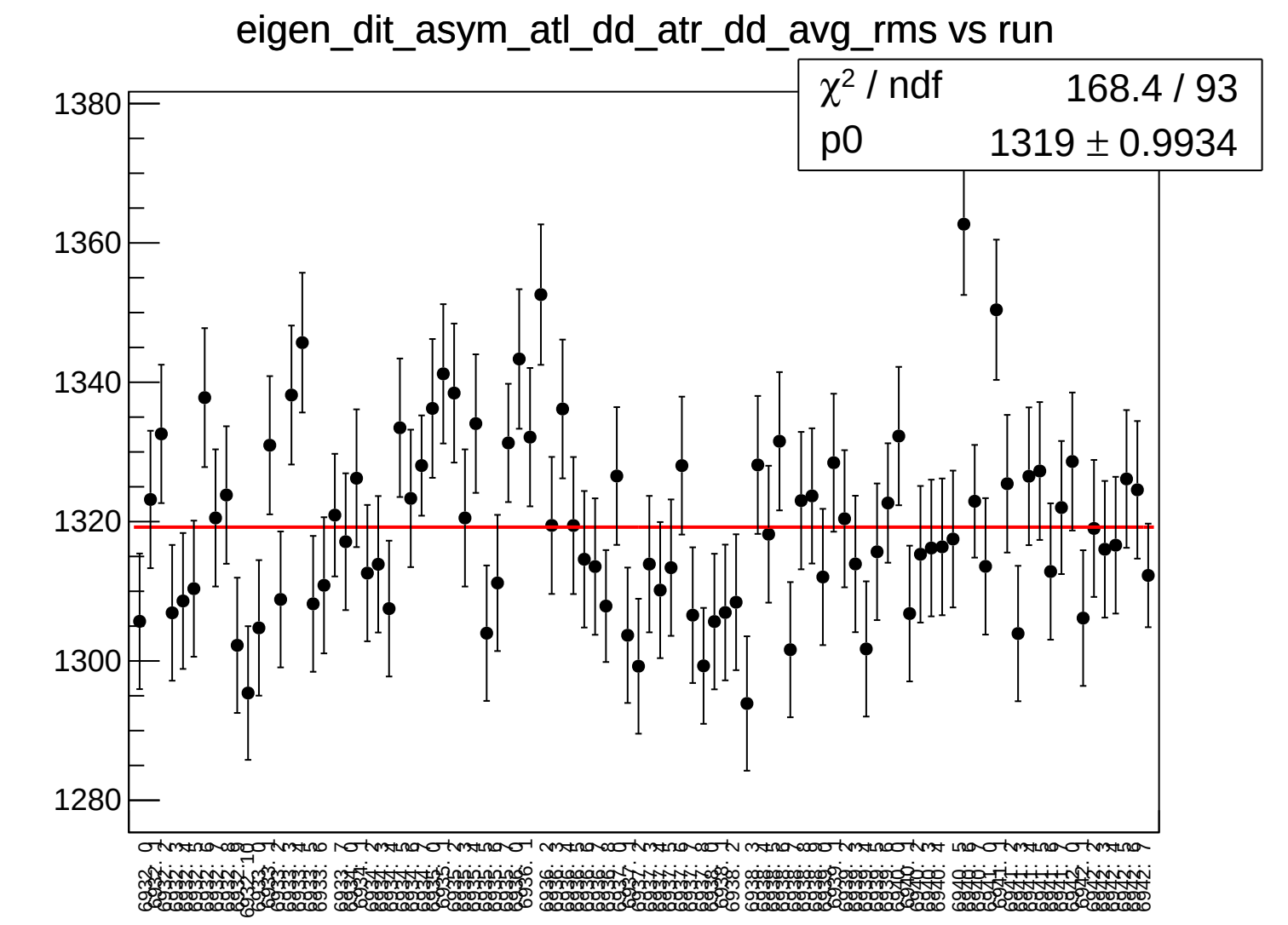

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2

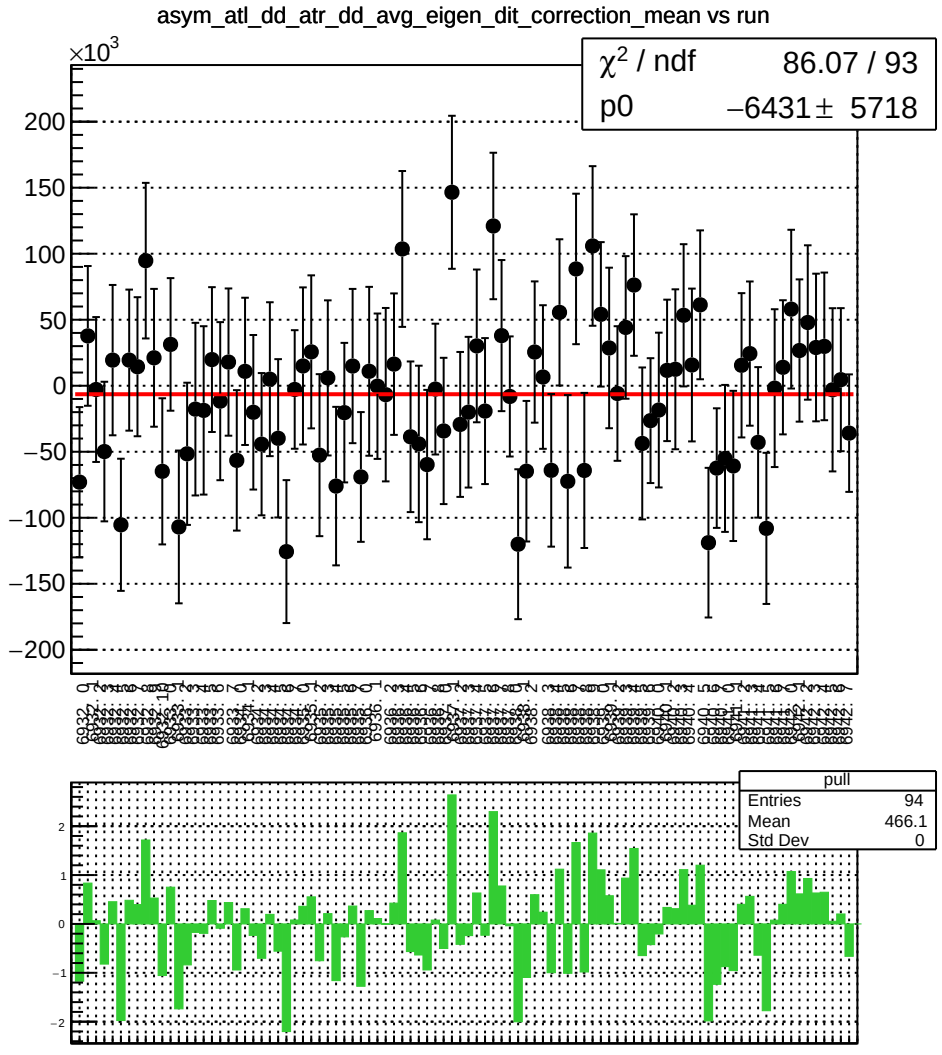

pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

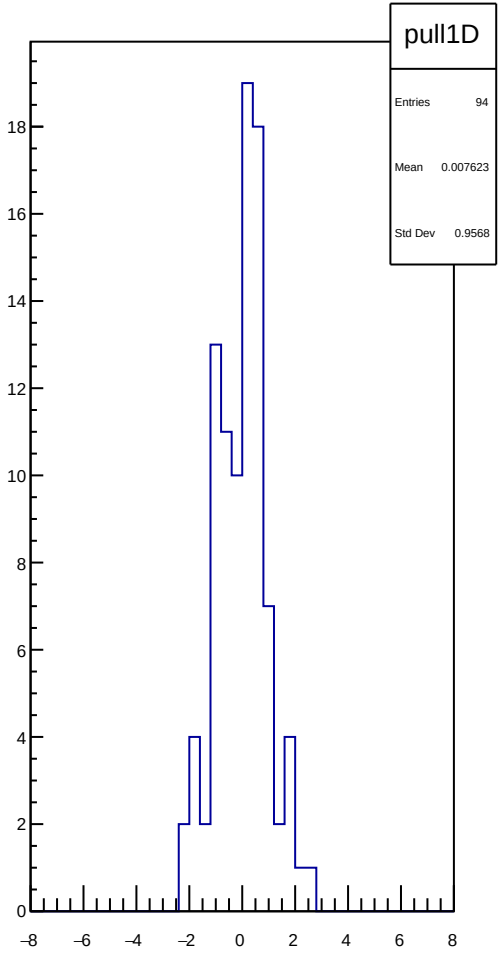

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

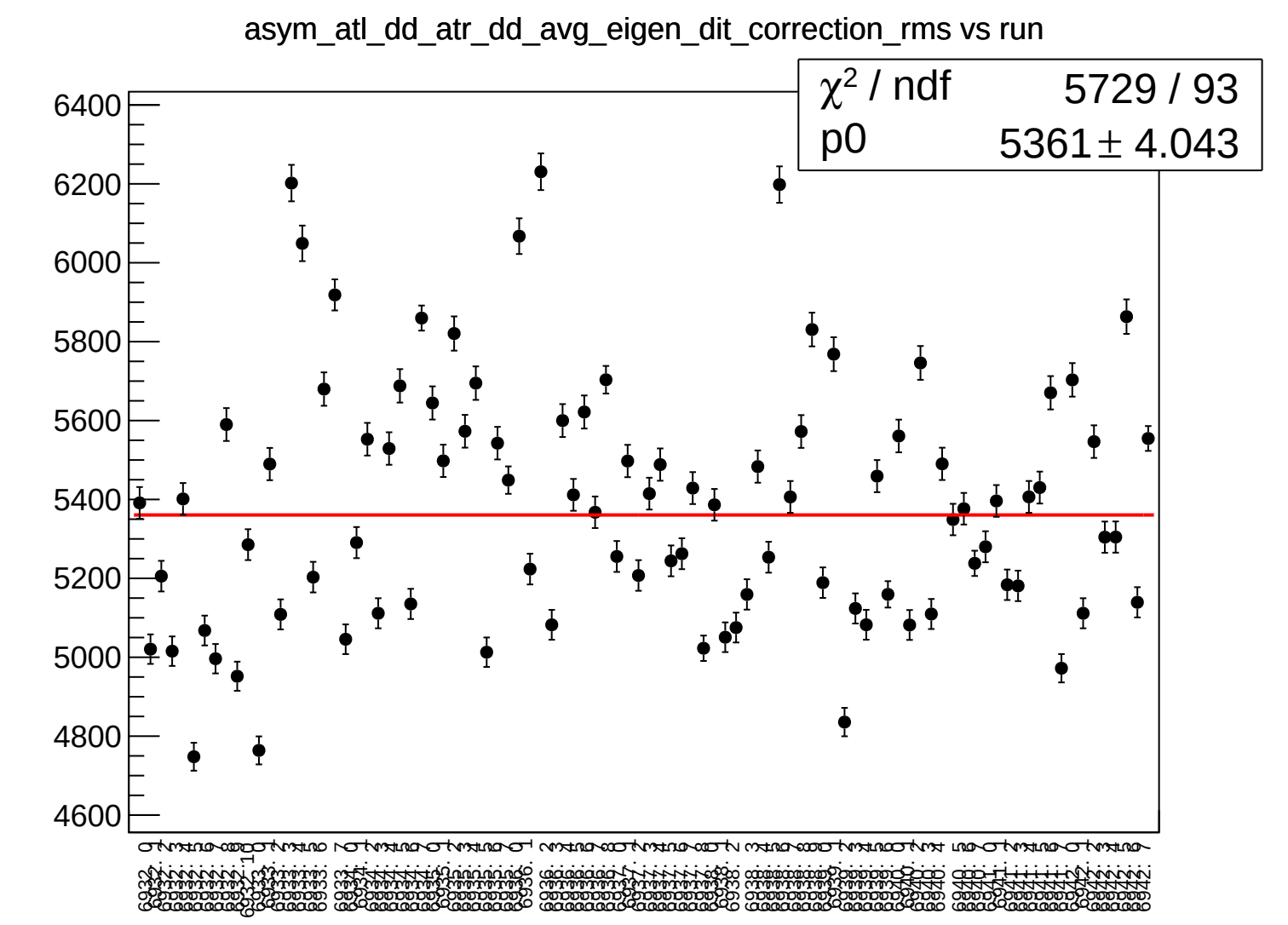

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

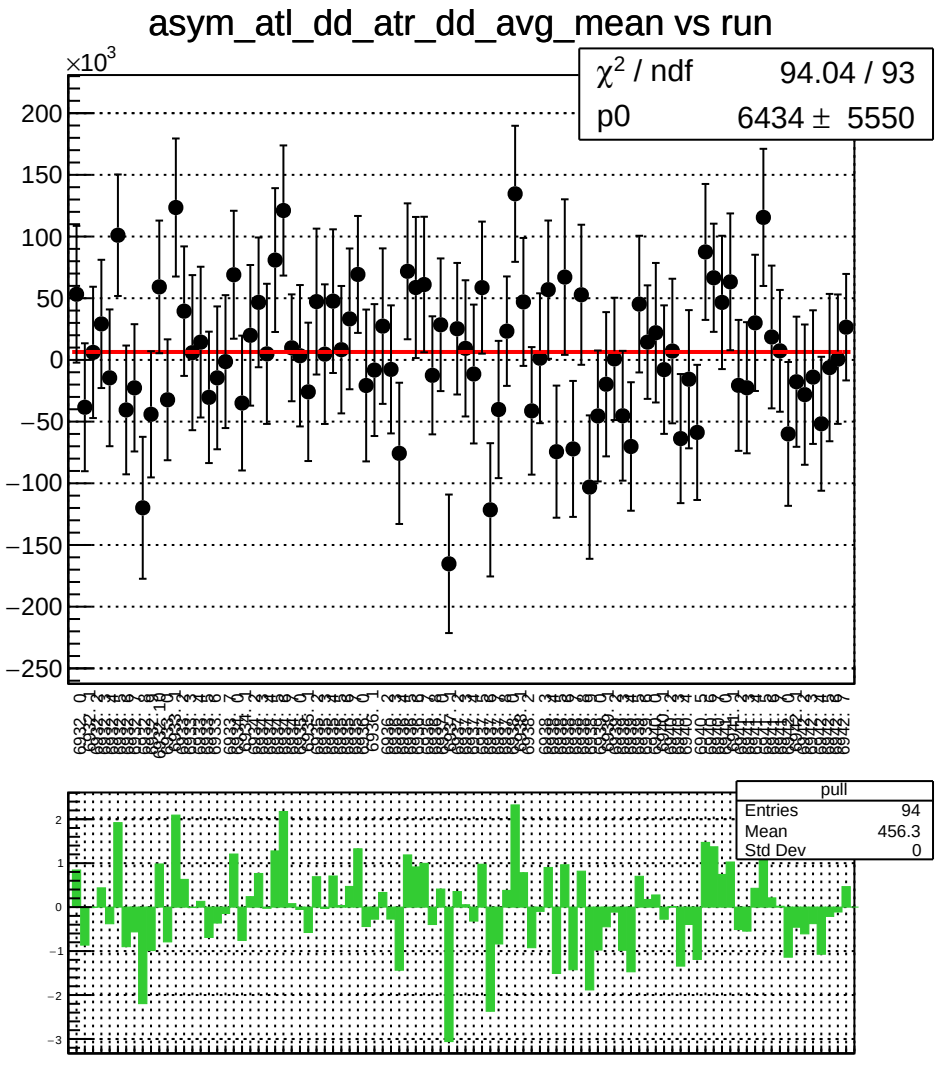

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

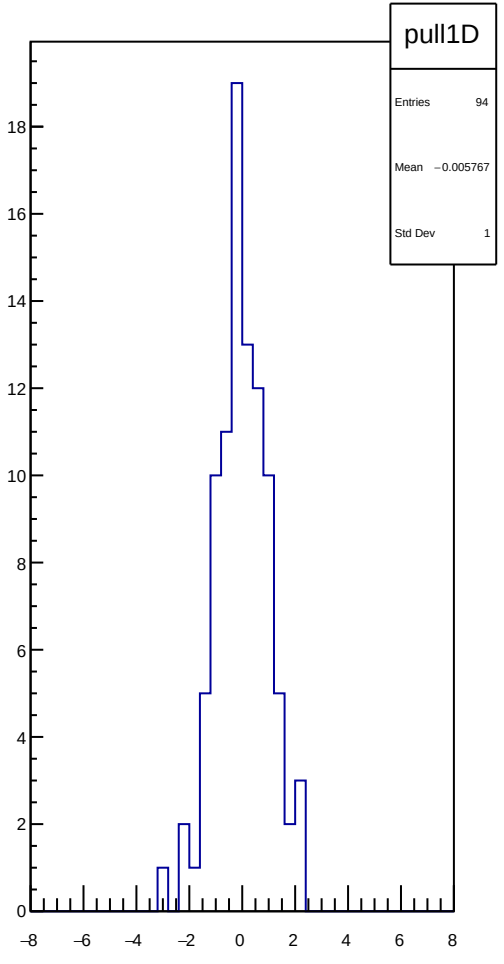

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

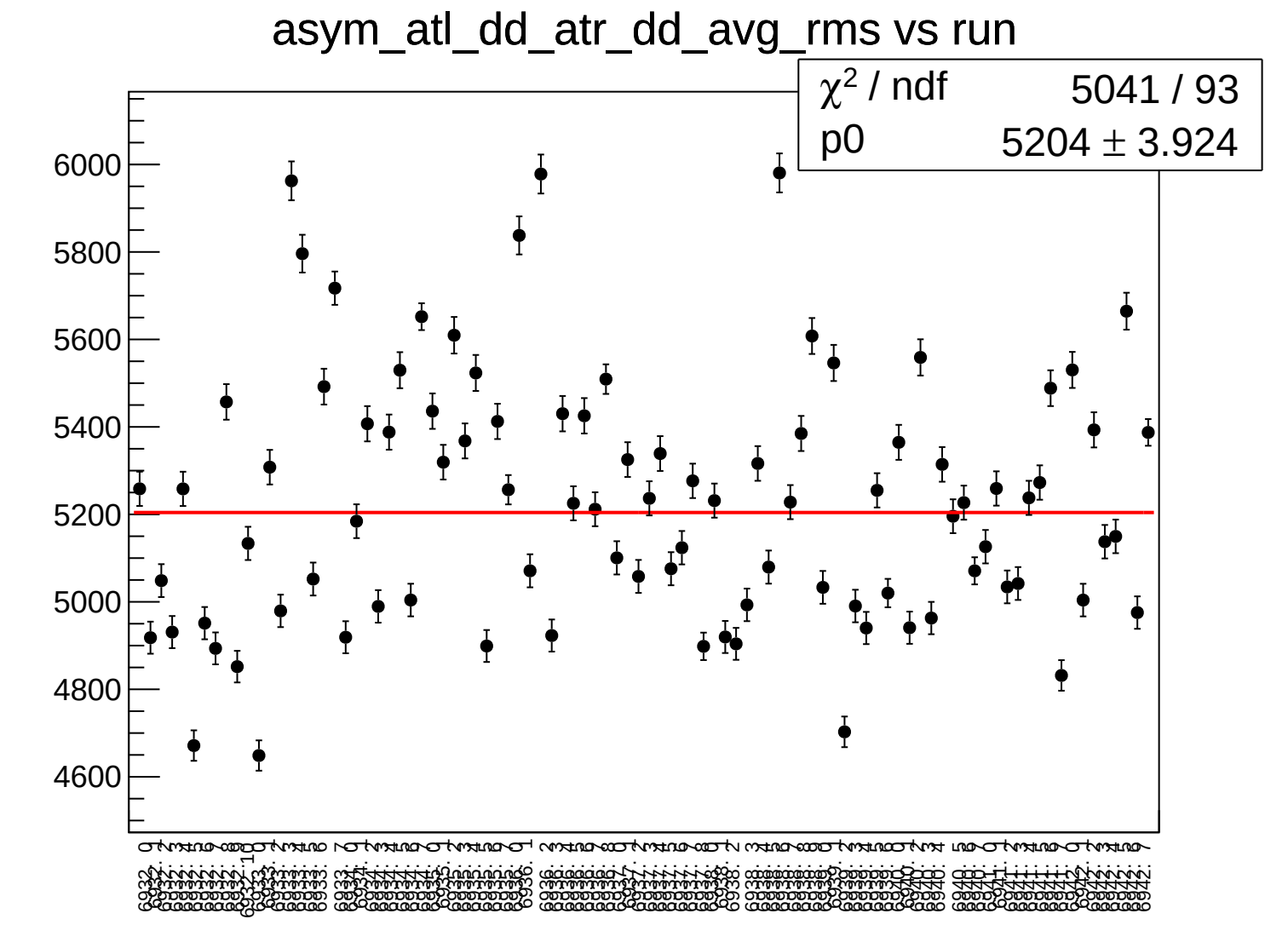

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2

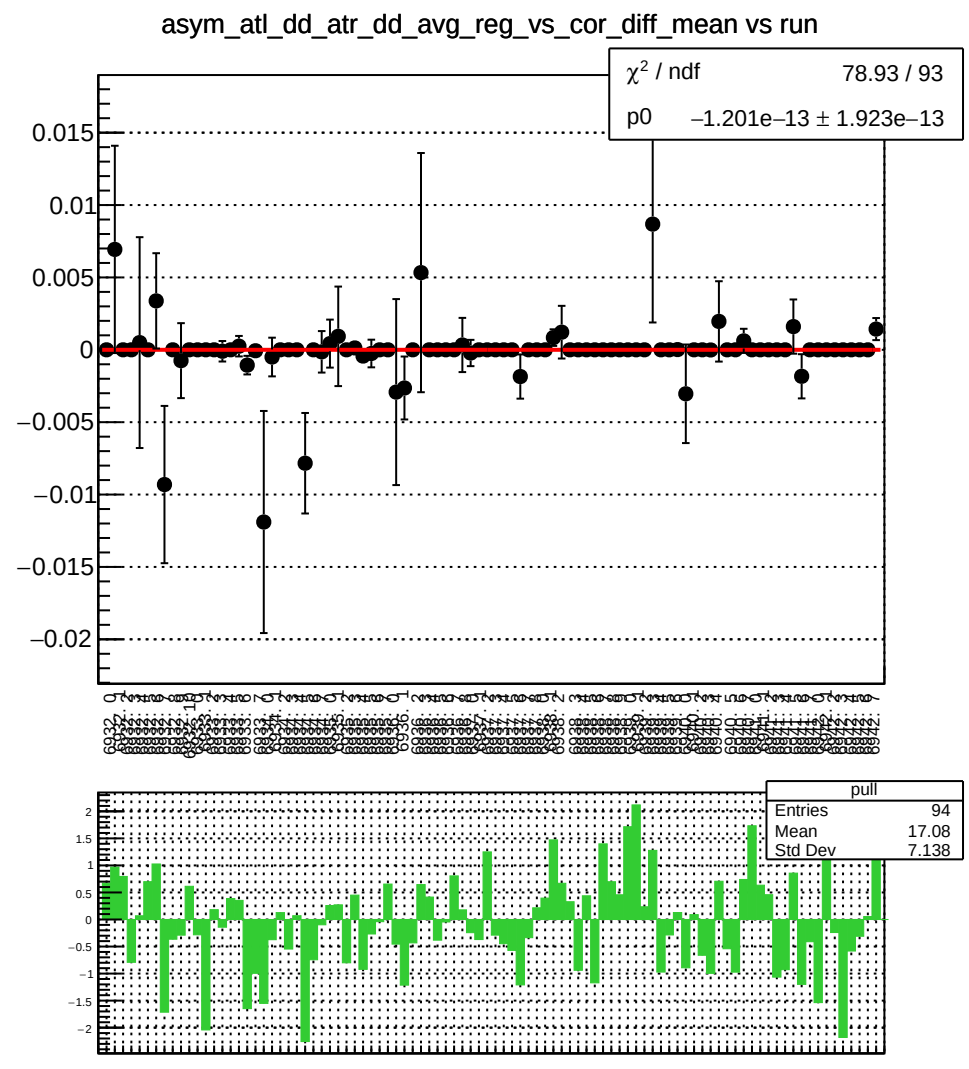

pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

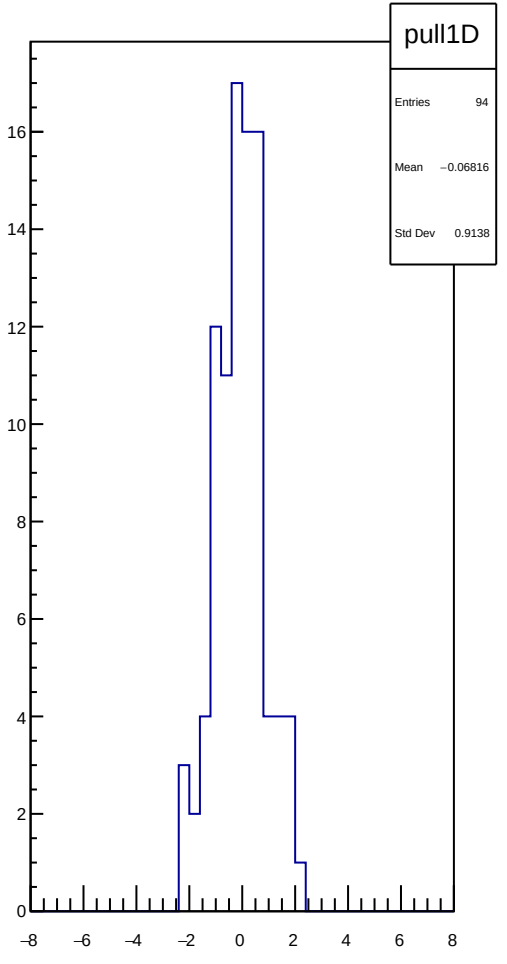

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

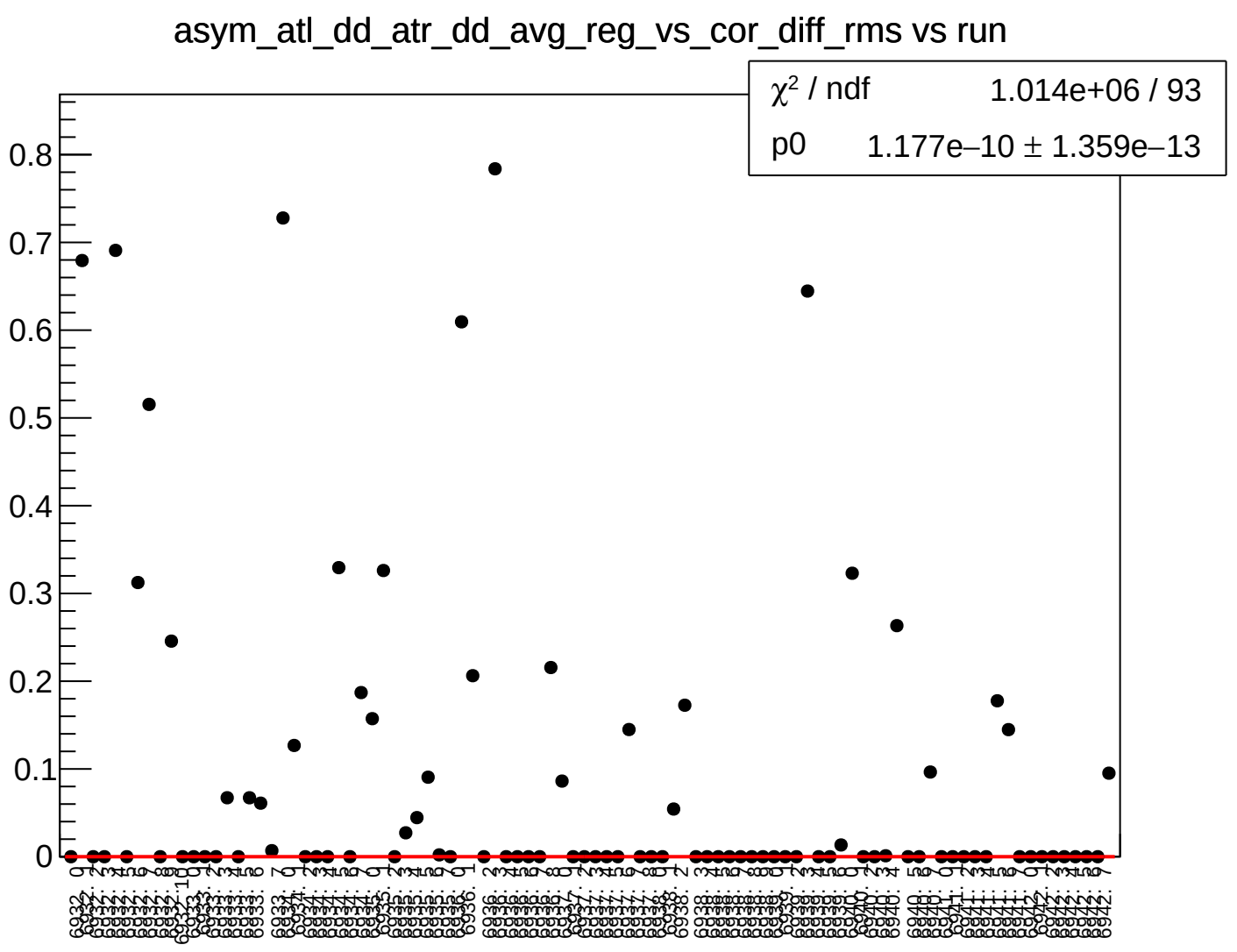

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 94.04 / 93
p0 6434 ± 5550
pull
Entries 94
Mean 456.3
Std Dev 0

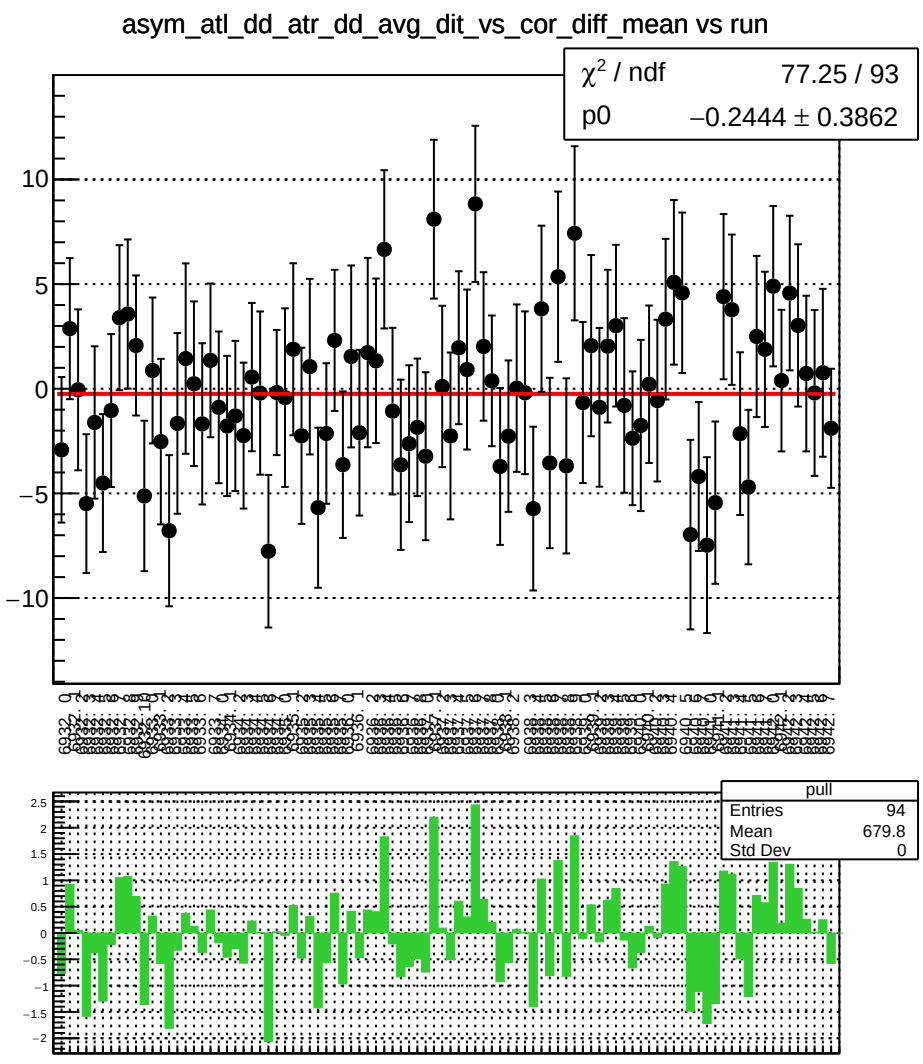

pull1D
Entries 94
Mean −0.005767
Std Dev 1

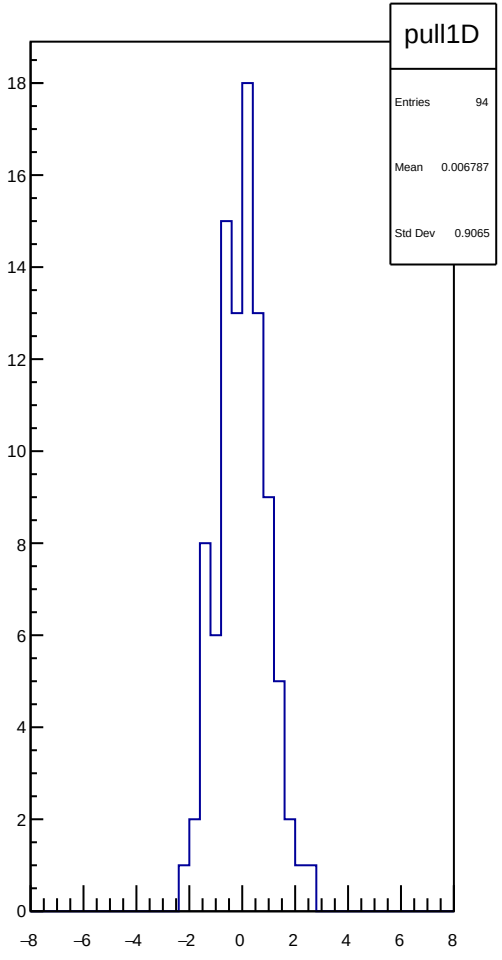

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 5041 / 93
p0 5204 ± 3.924
6000
5800
5600
5400
5200
5000
4800
4600

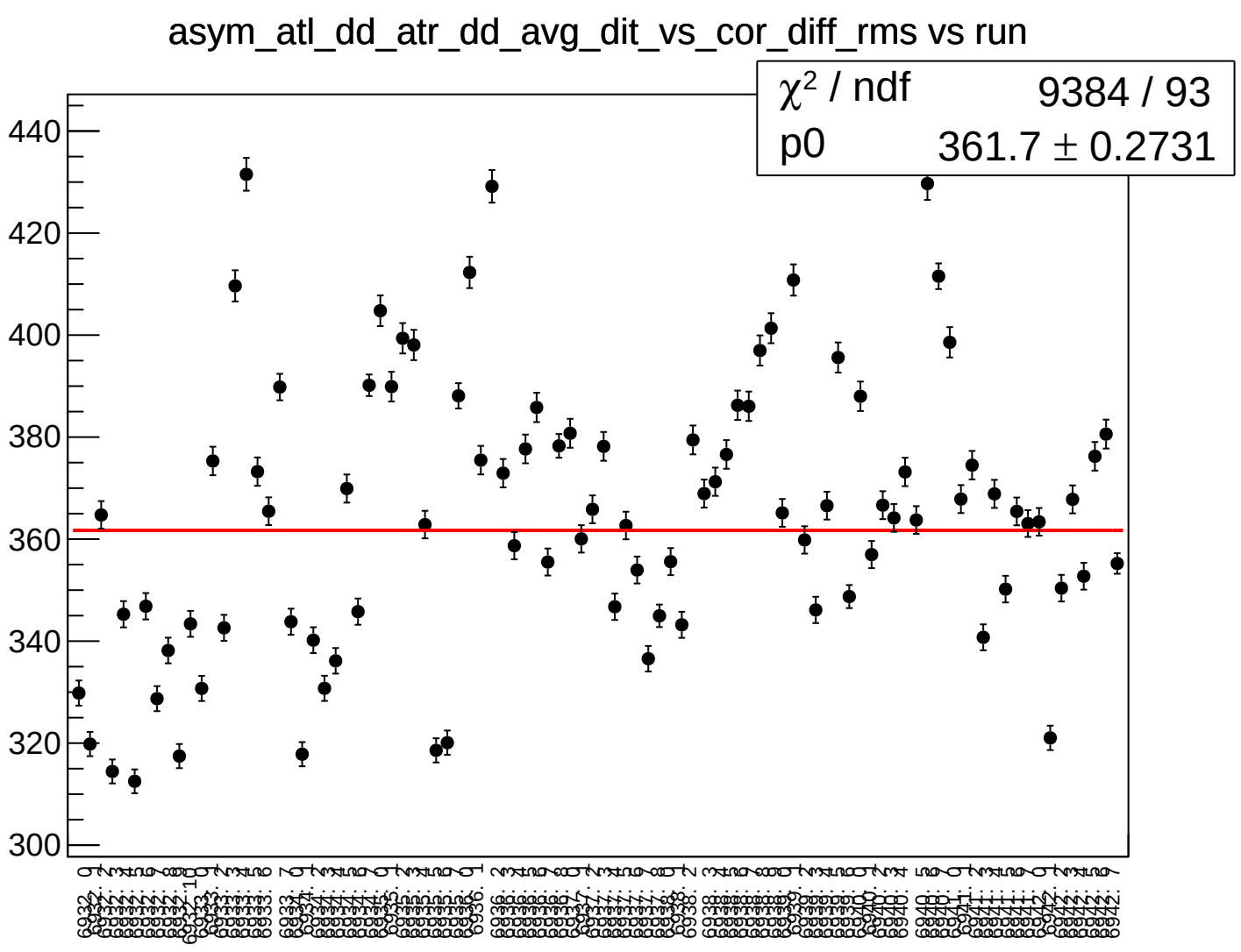

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.93 / 93
p0 −1.201e−13 ± 1.923e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 17.08
Std Dev 7.138
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

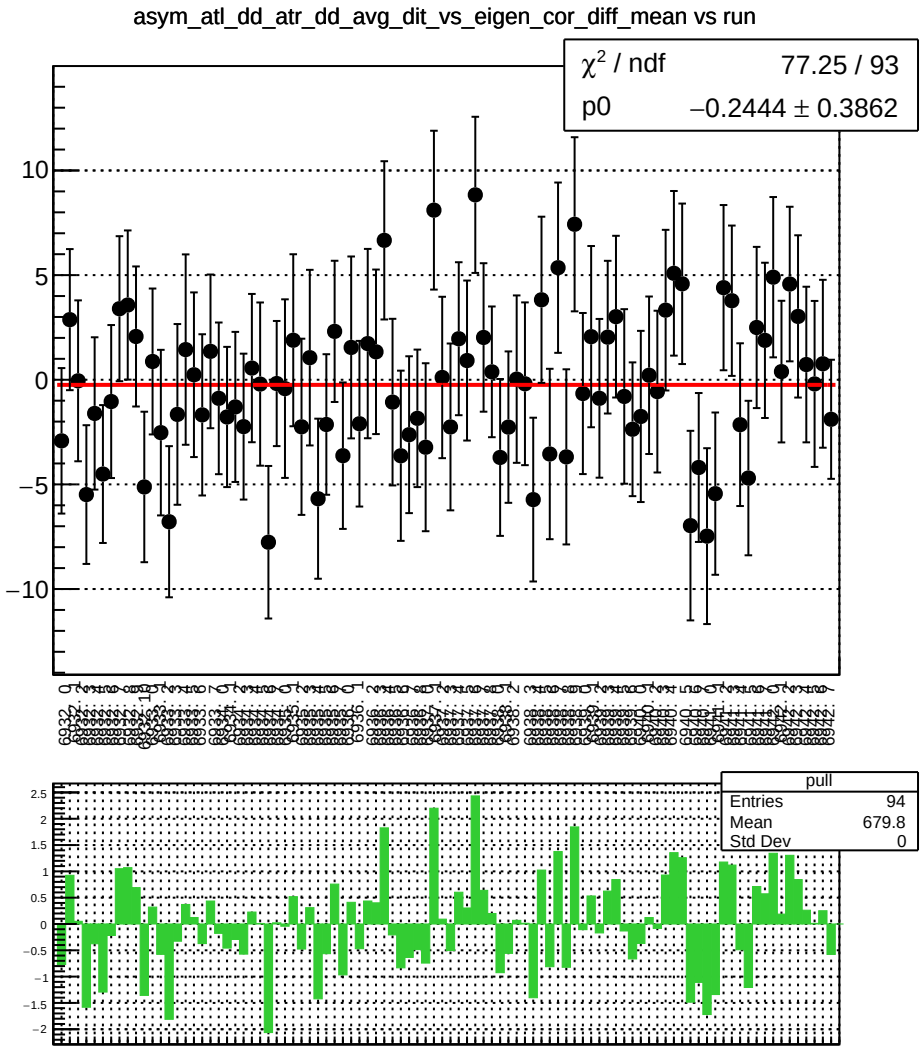

pull1D
Entries 94
Mean −0.06816
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

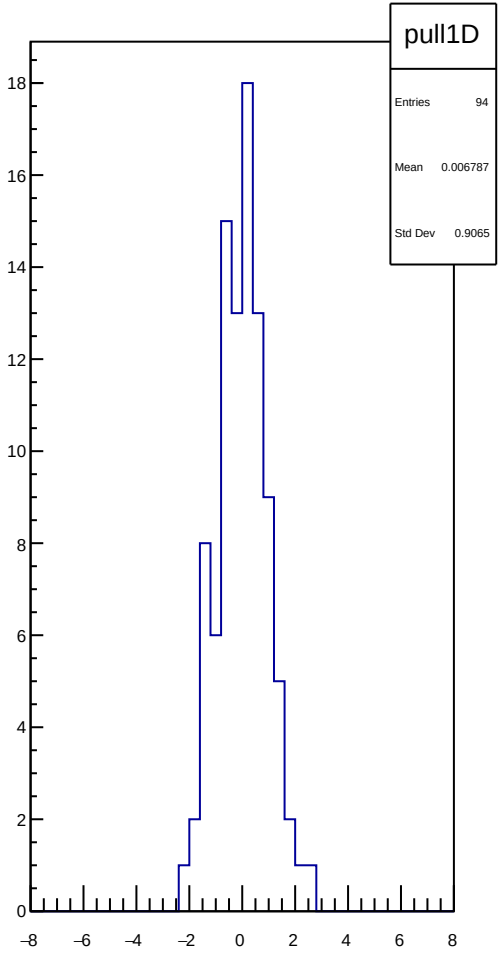

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 93
p0 1.177e−10 ± 1.359e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

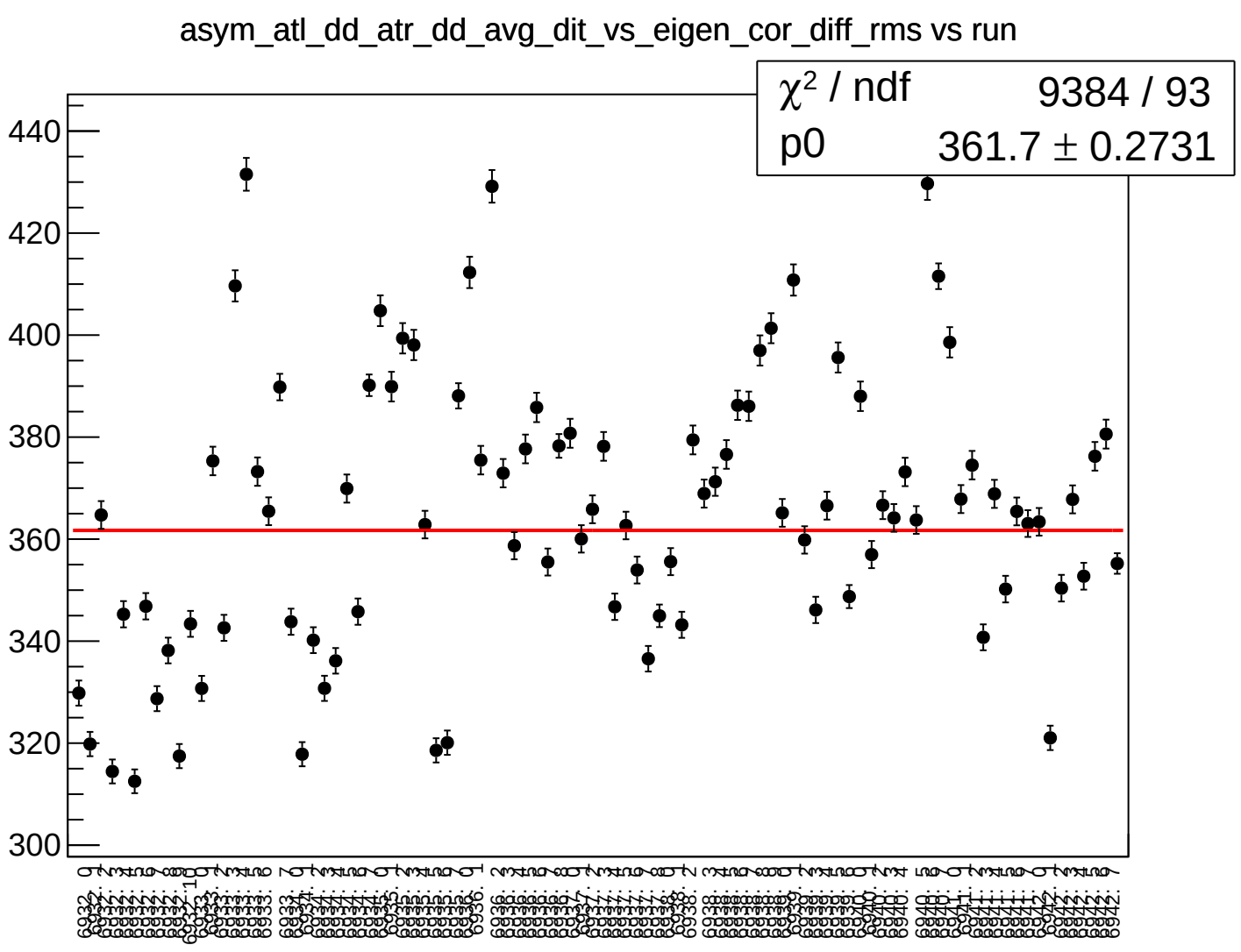

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

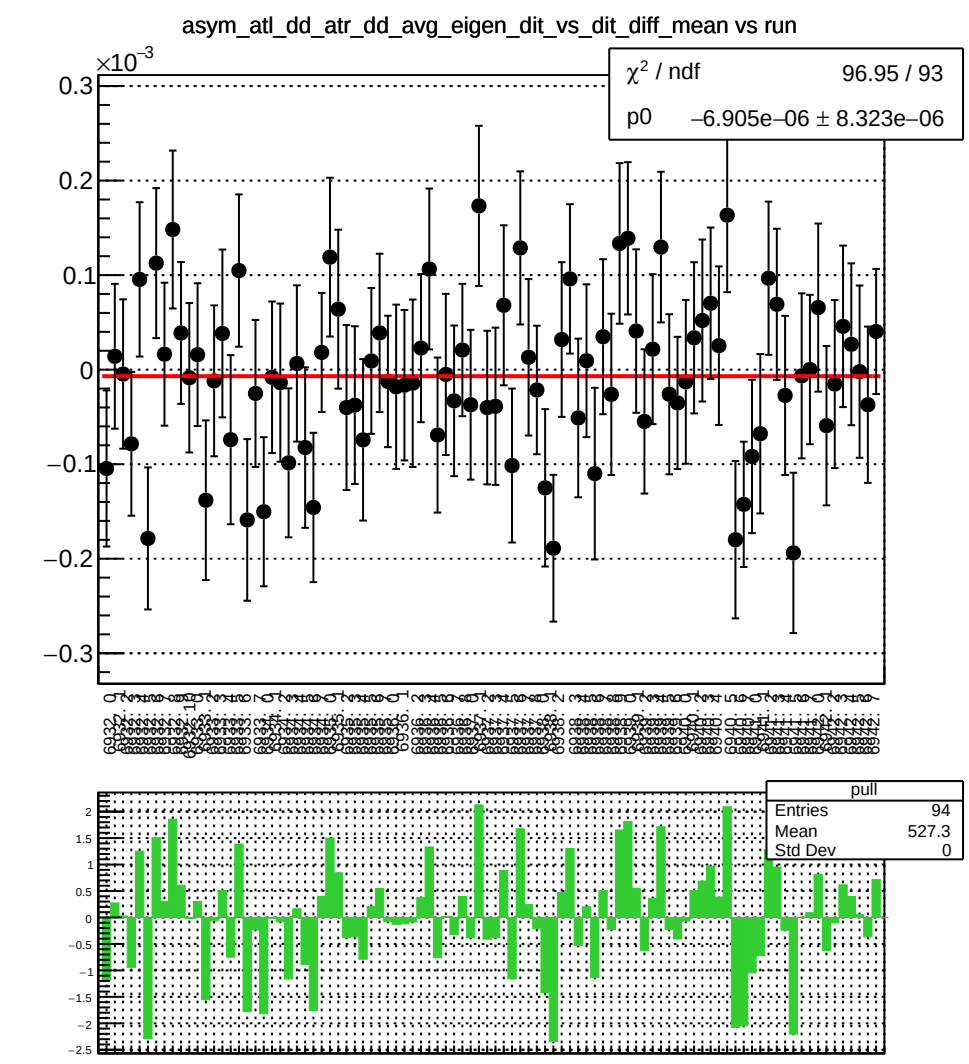

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

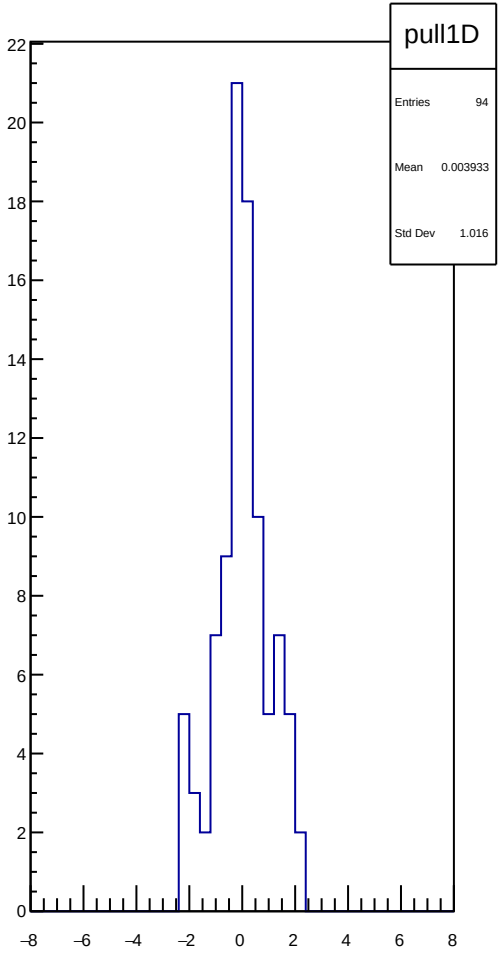

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

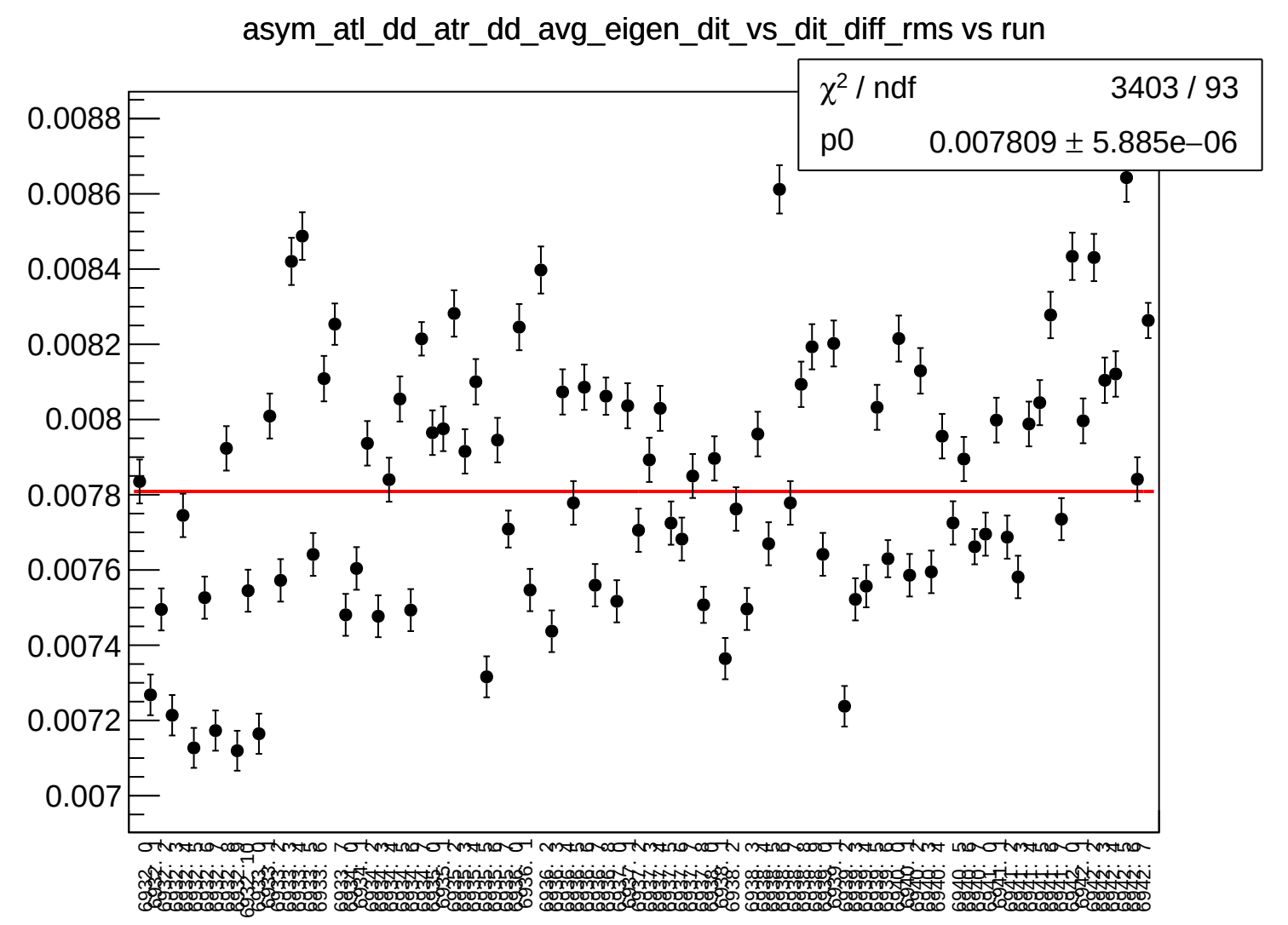

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

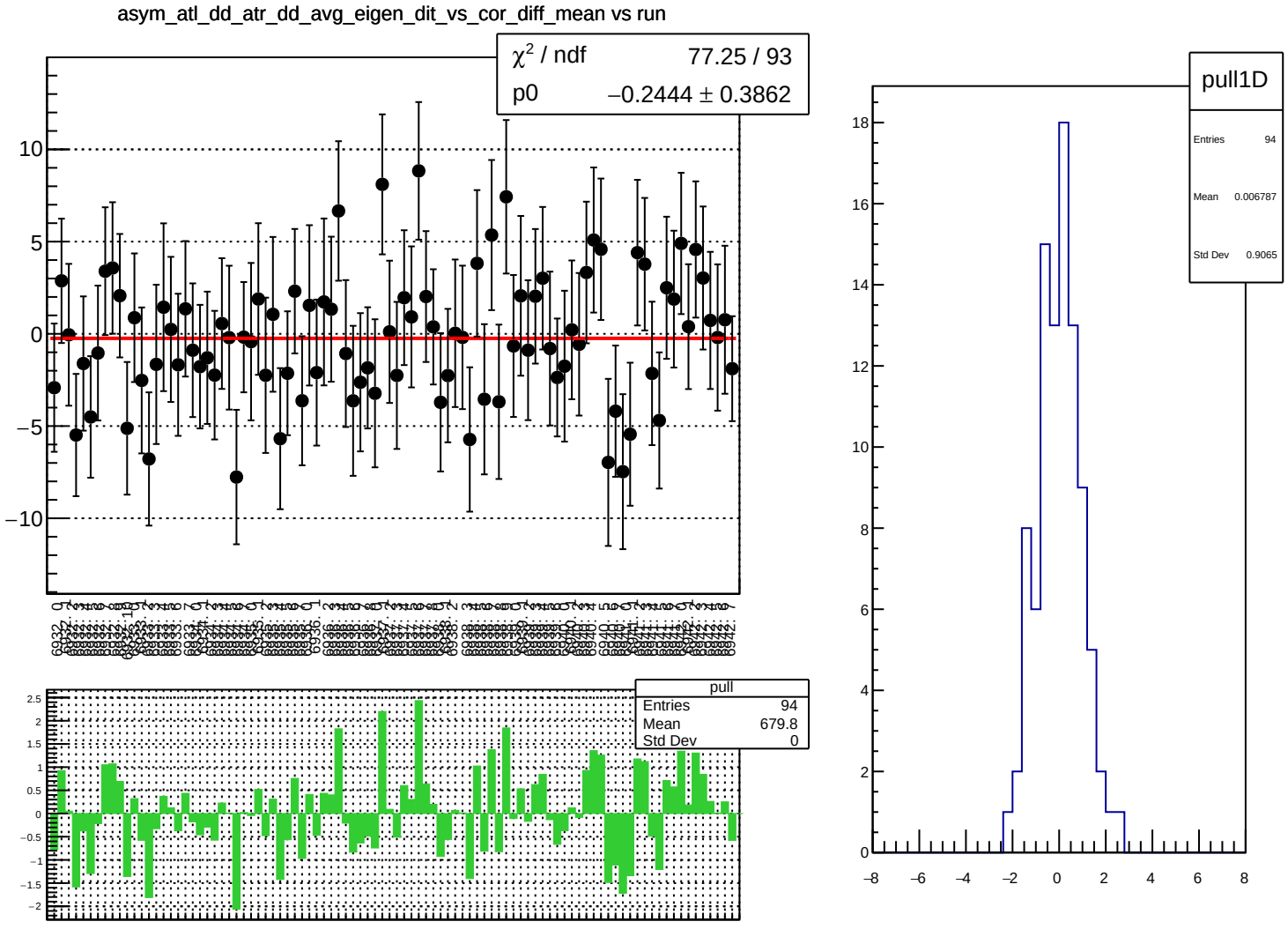

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

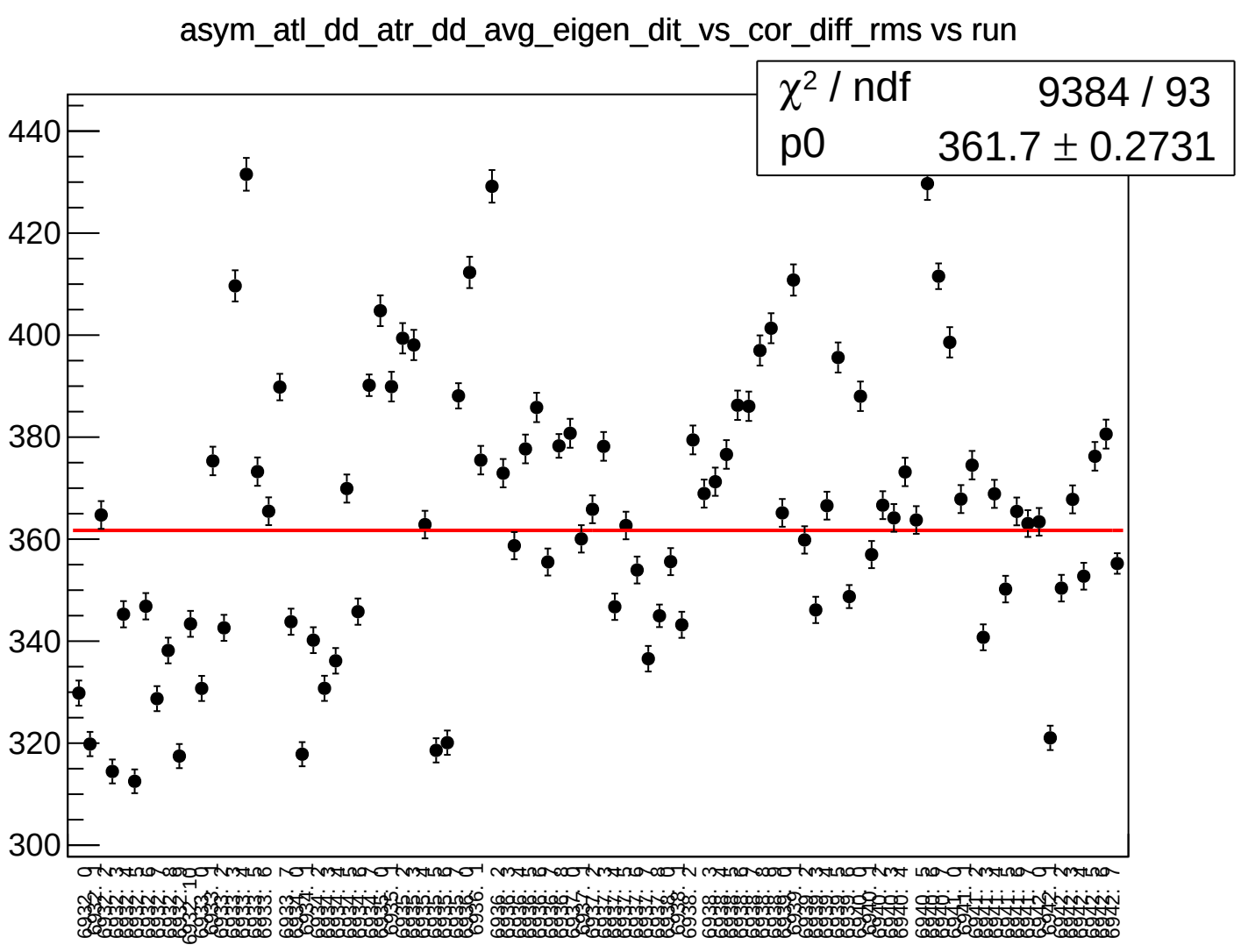

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

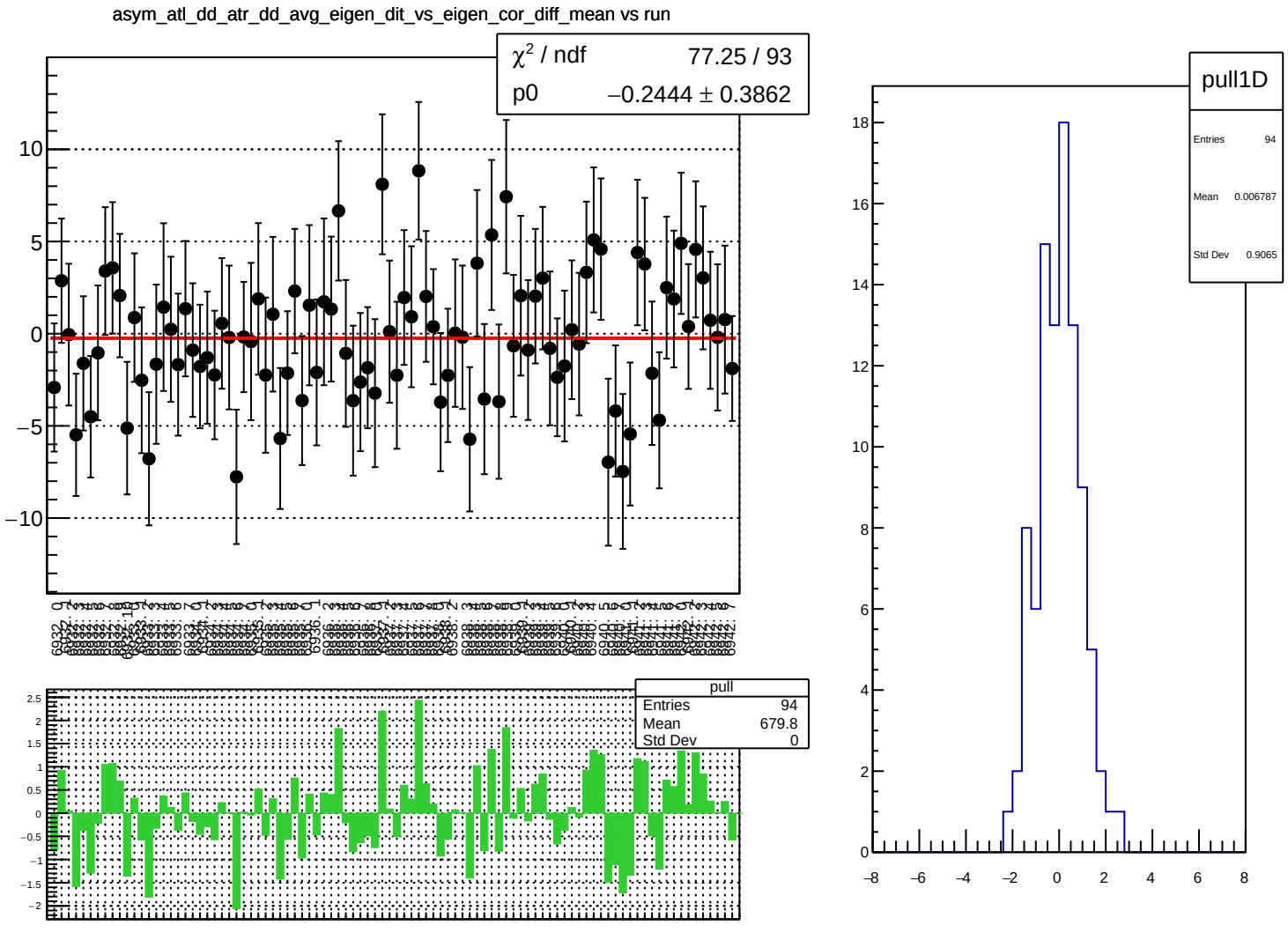

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.95 / 93
p0 −6.905e−06 ± 8.323e−06
pull
Entries 94
Mean 527.3
Std Dev 0

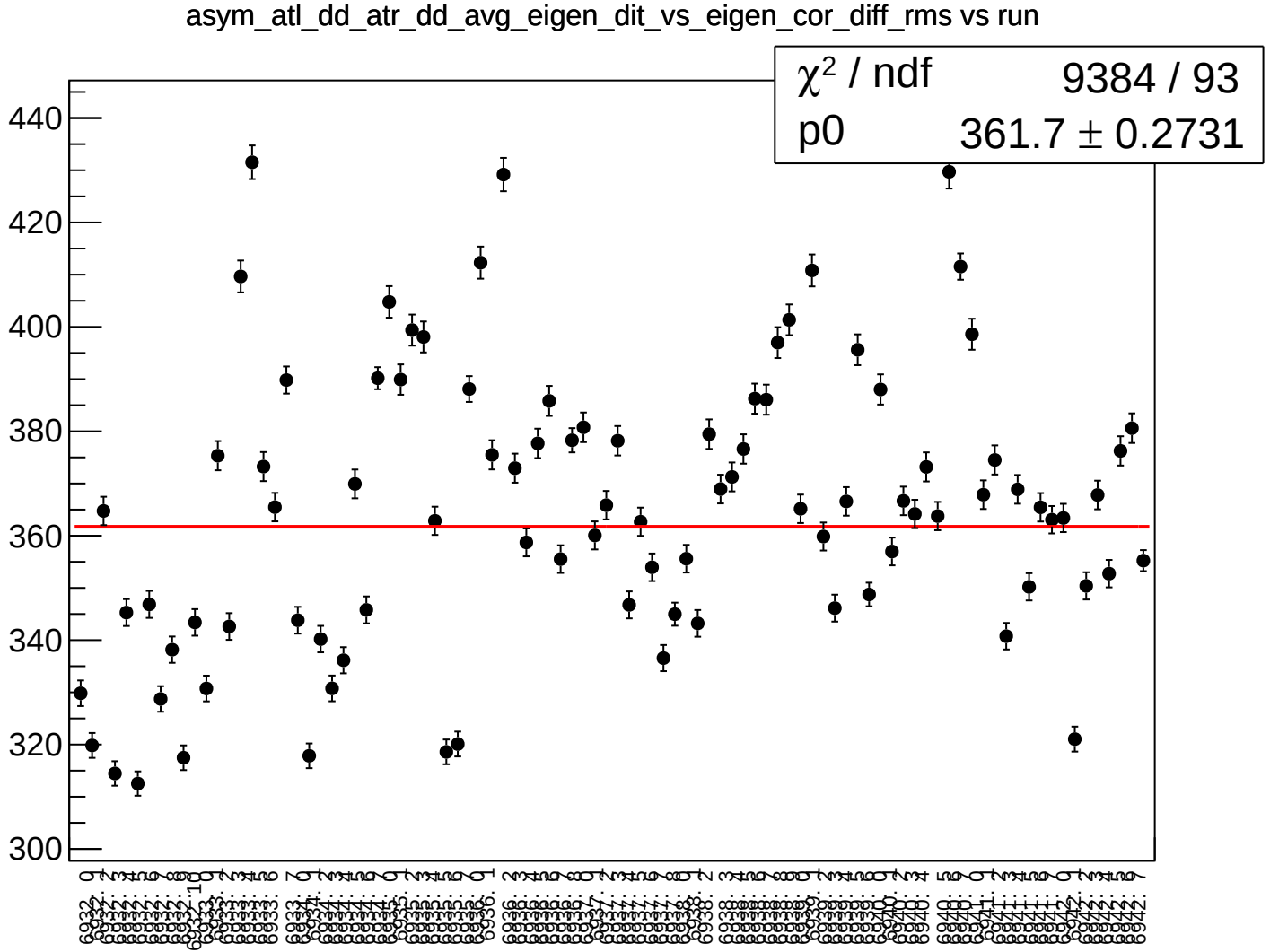

pull1D
Entries 94
Mean 0.003933
Std Dev 1.016

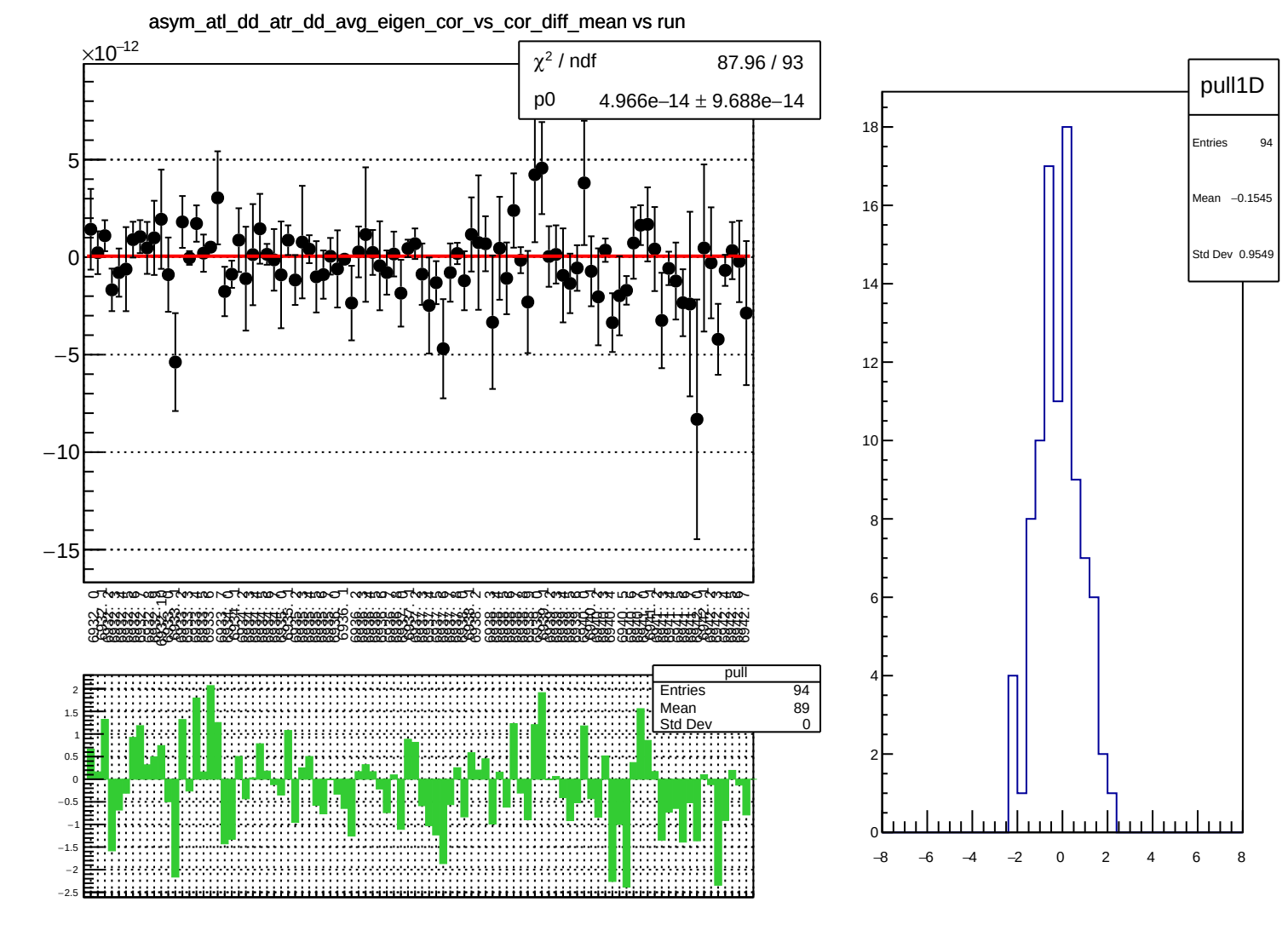

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3403 / 93
p0 0.007809 ± 5.885e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

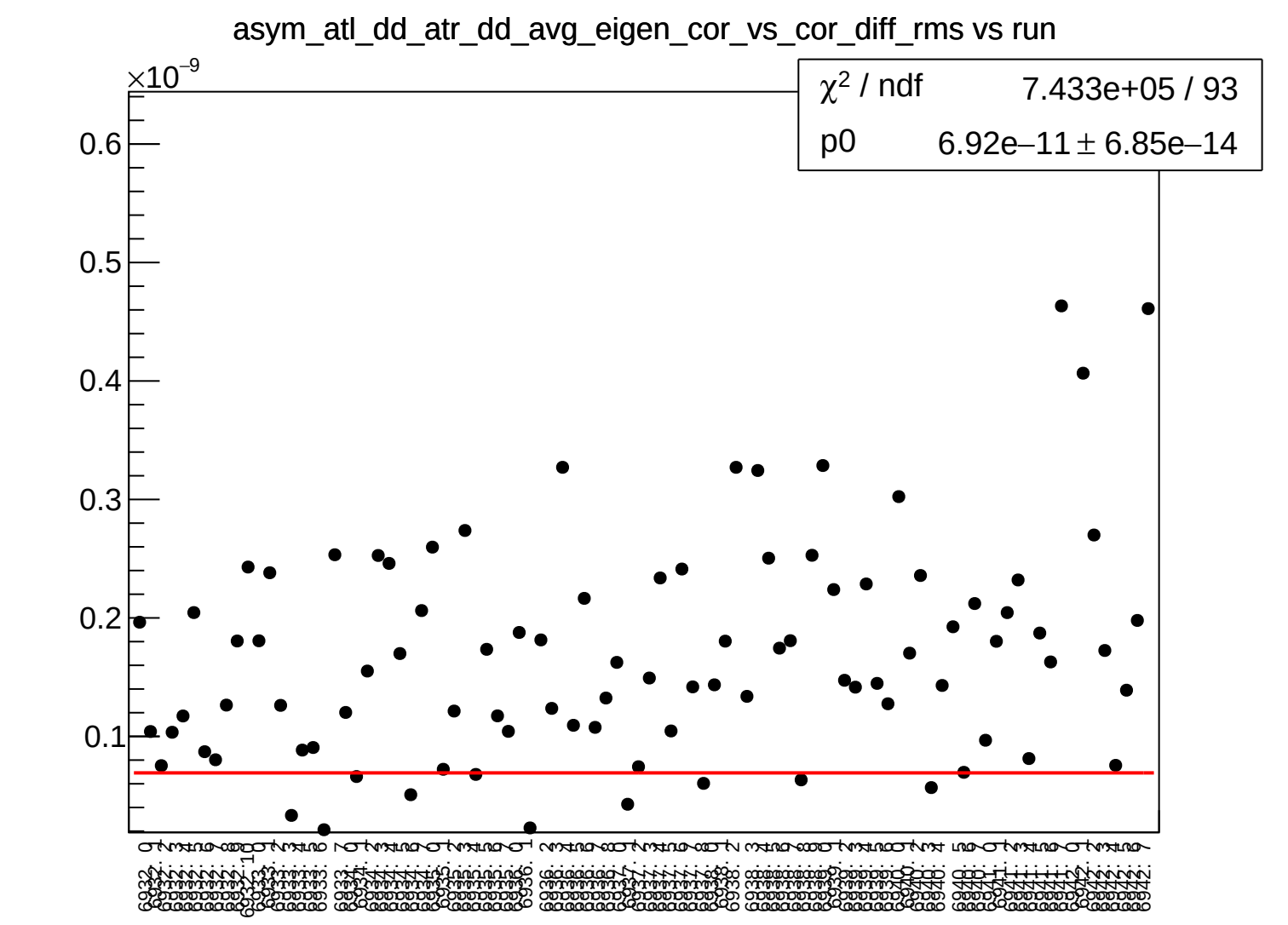

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

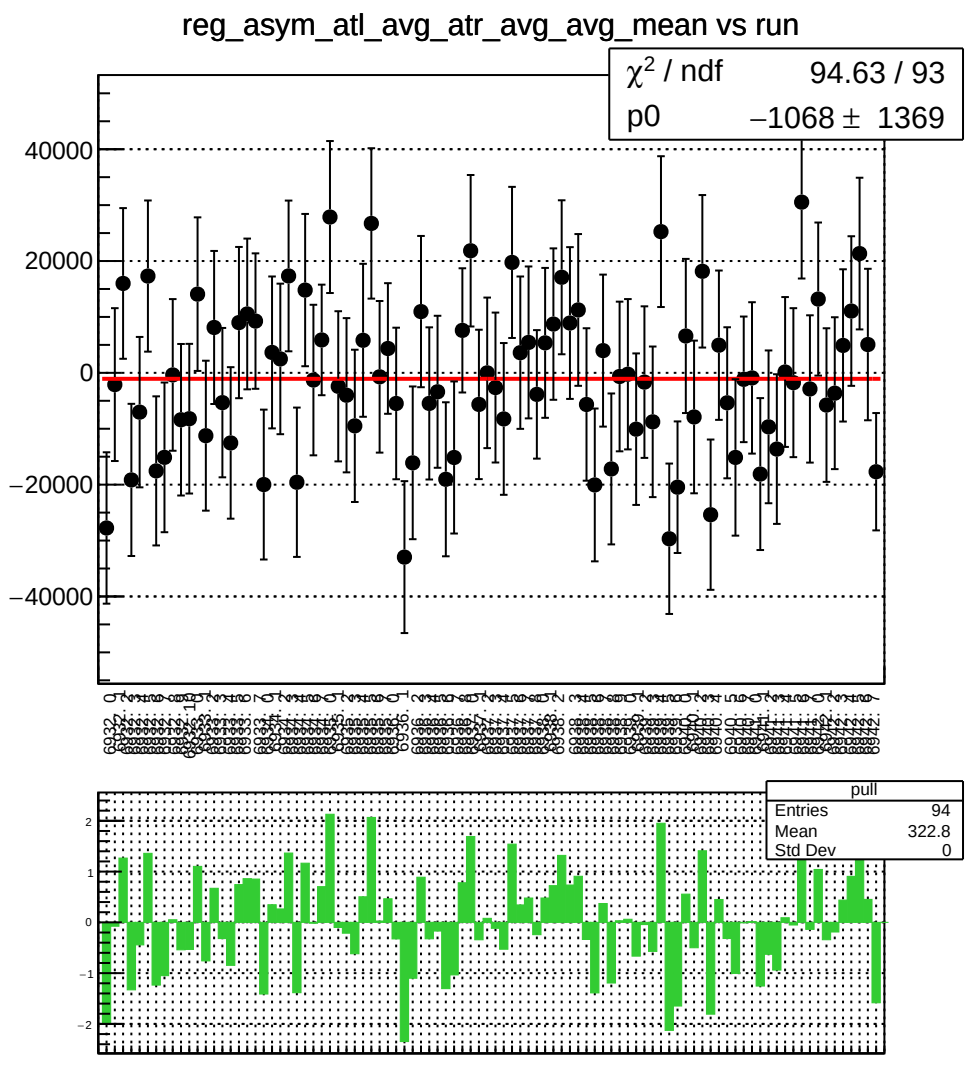

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

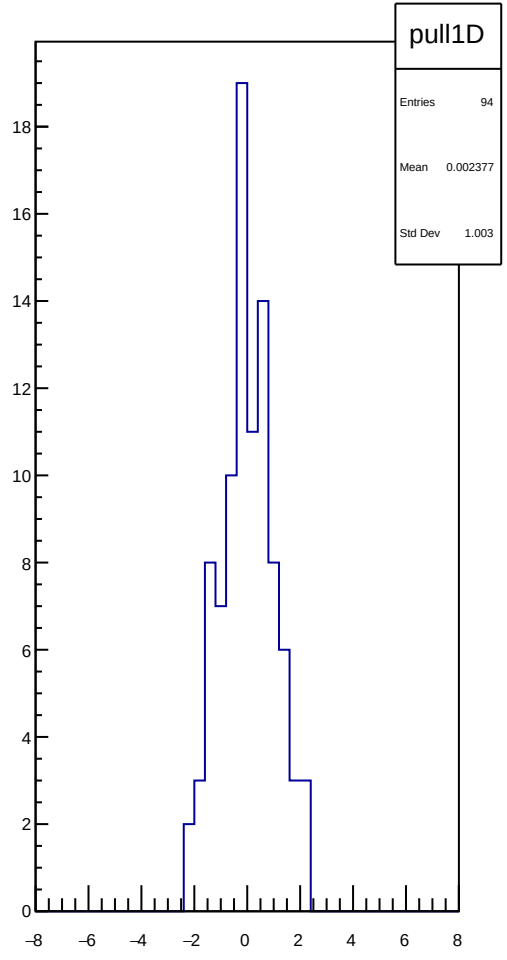

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

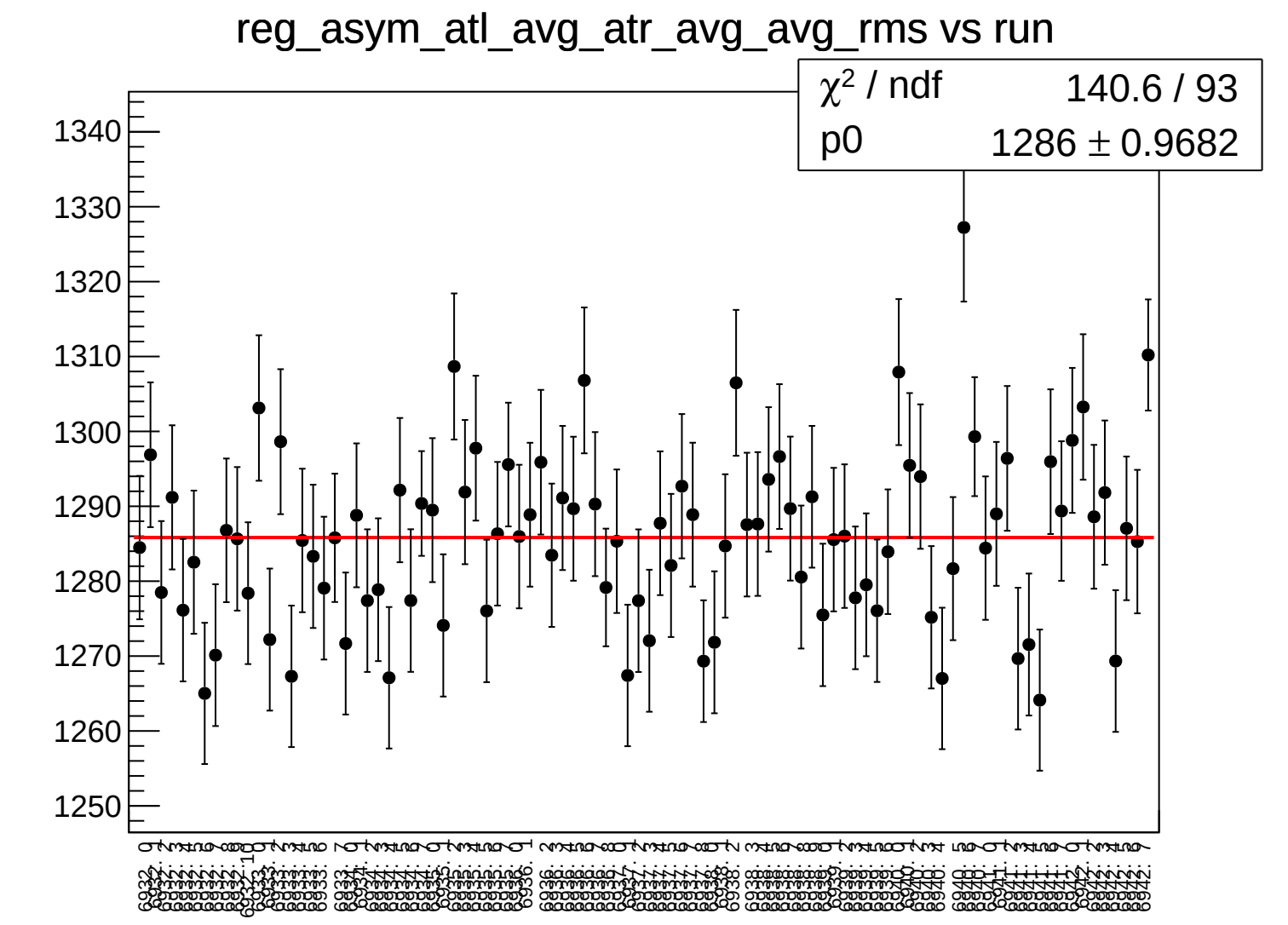

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

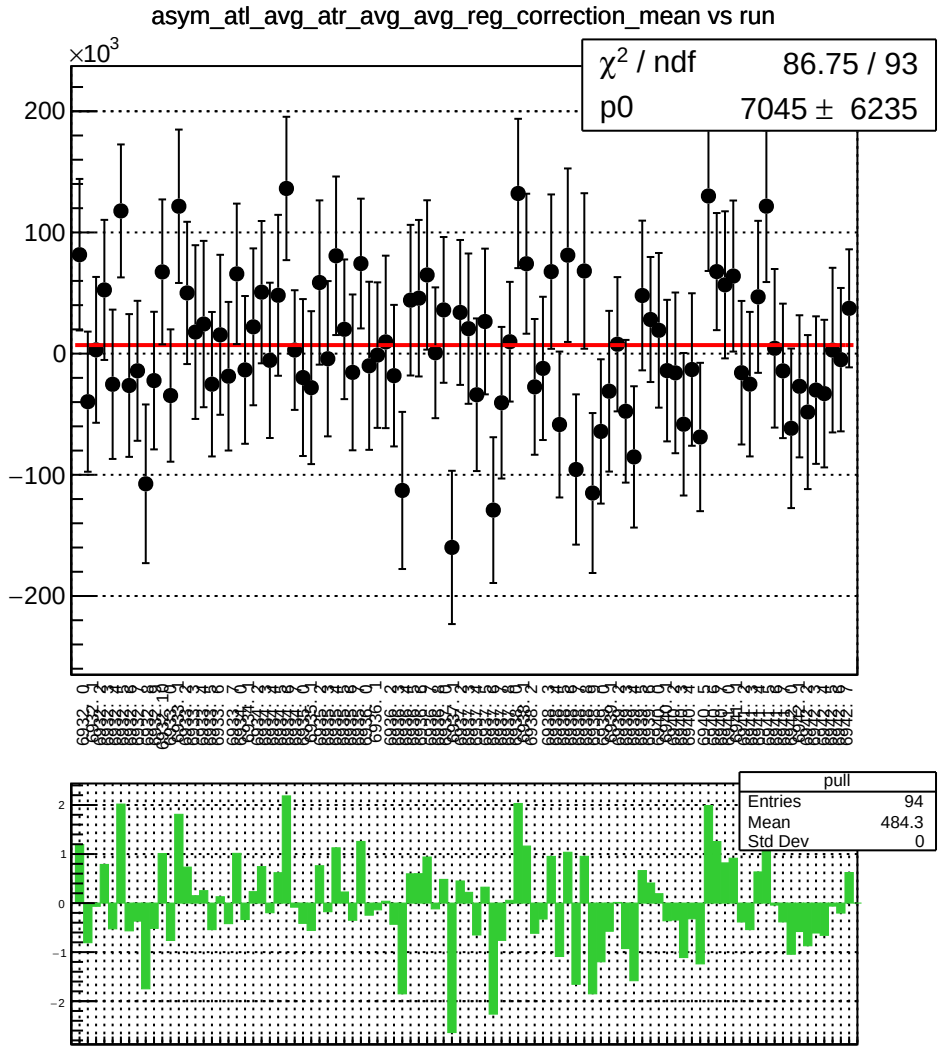

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.96 / 93
p0 4.966e−14 ± 9.688e−14
5
0
−5
−10
−15
pull
Entries 94
Mean 89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.1545
Std Dev 0.9549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

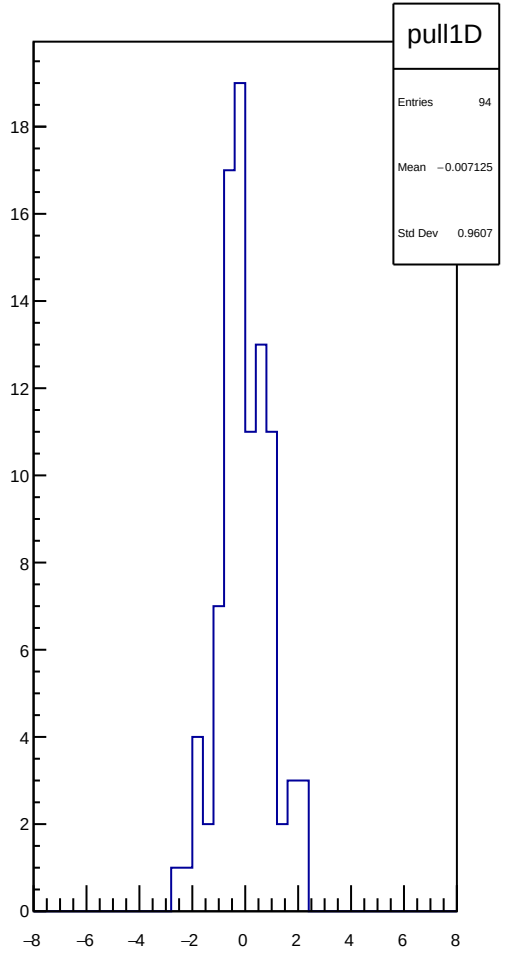

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.433e+05 / 93
p0 6.92e−11 ± 6.85e−14
0.6
0.5
0.4
0.3
0.2
0.1

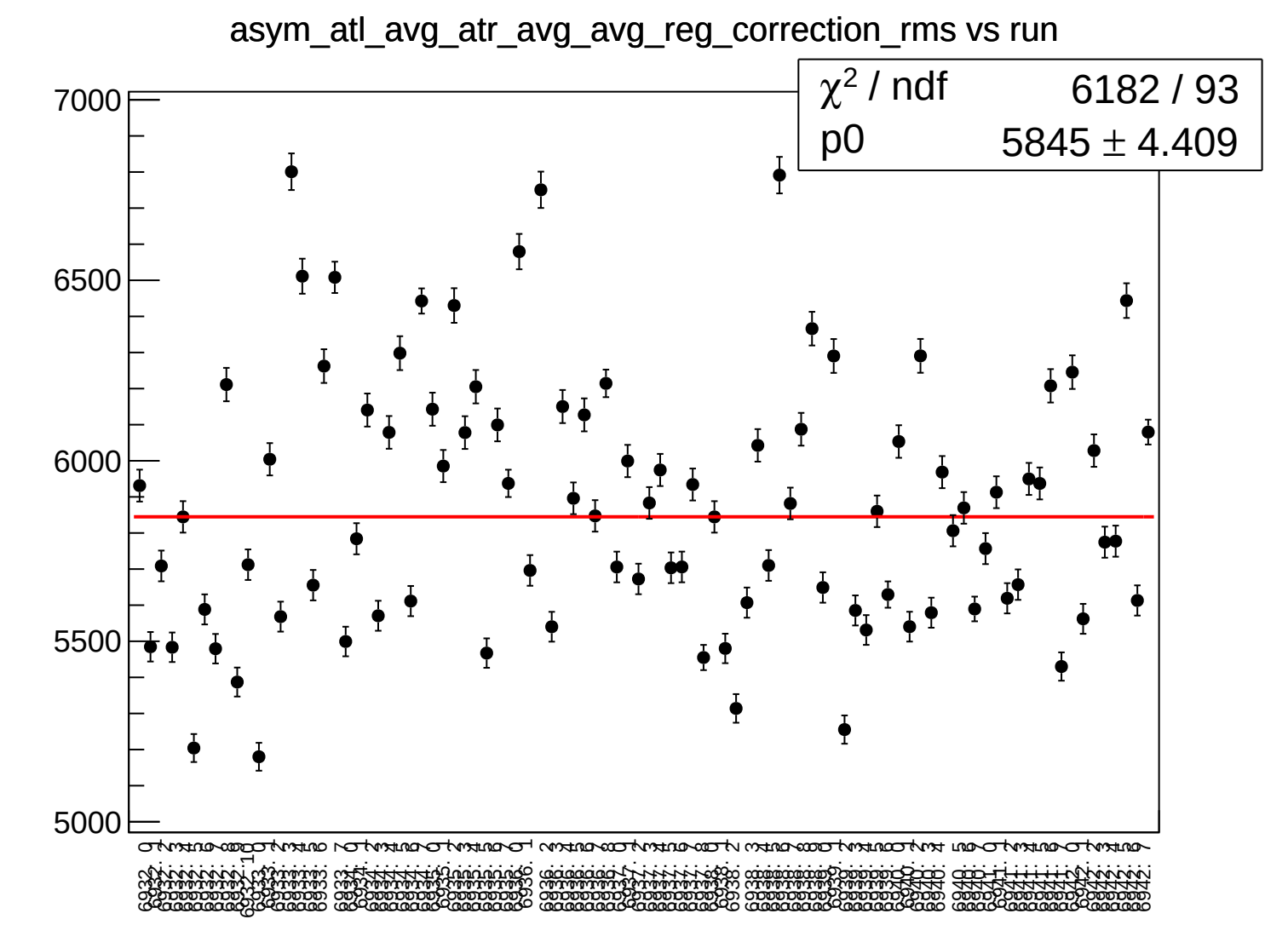

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.63 / 93
p0 −1068 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 322.8
Std Dev 0
2
1
0
−1
−2

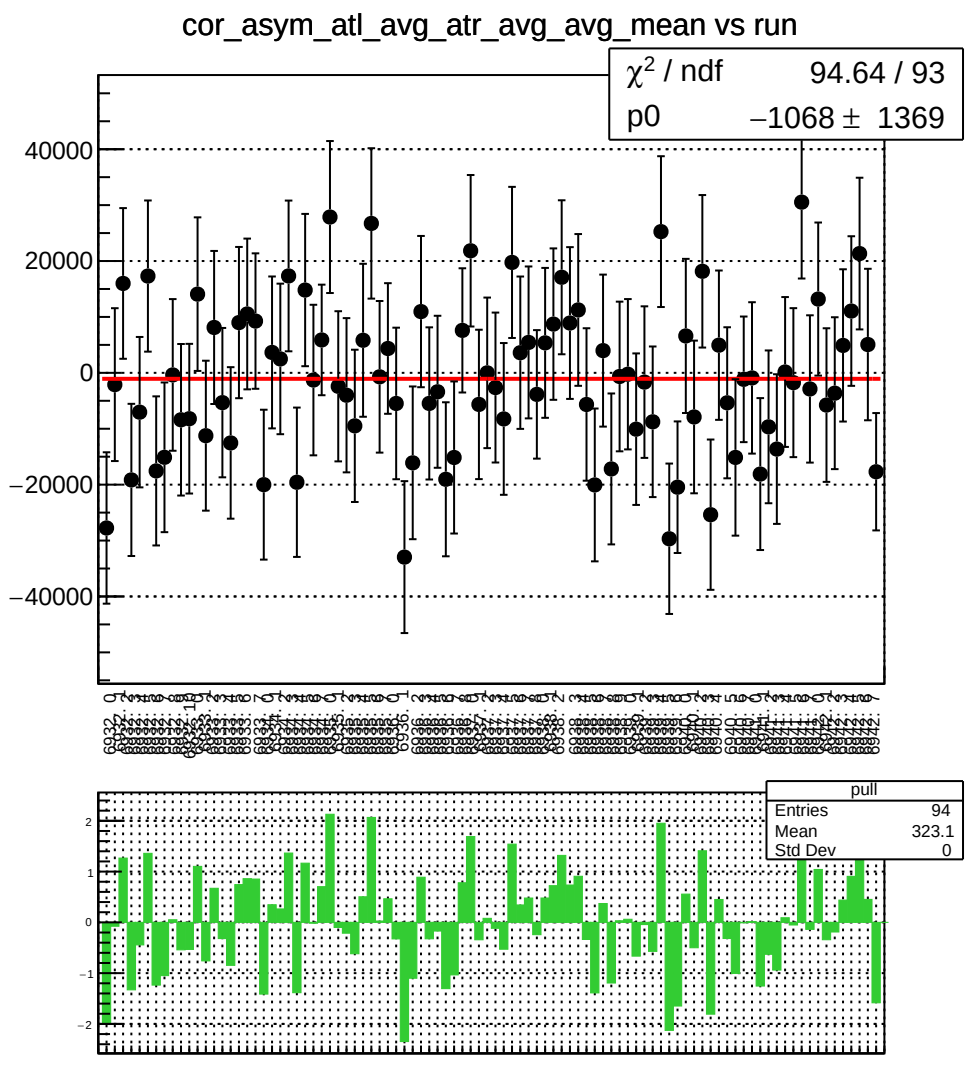

pull1D
Entries 94
Mean 0.002377
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

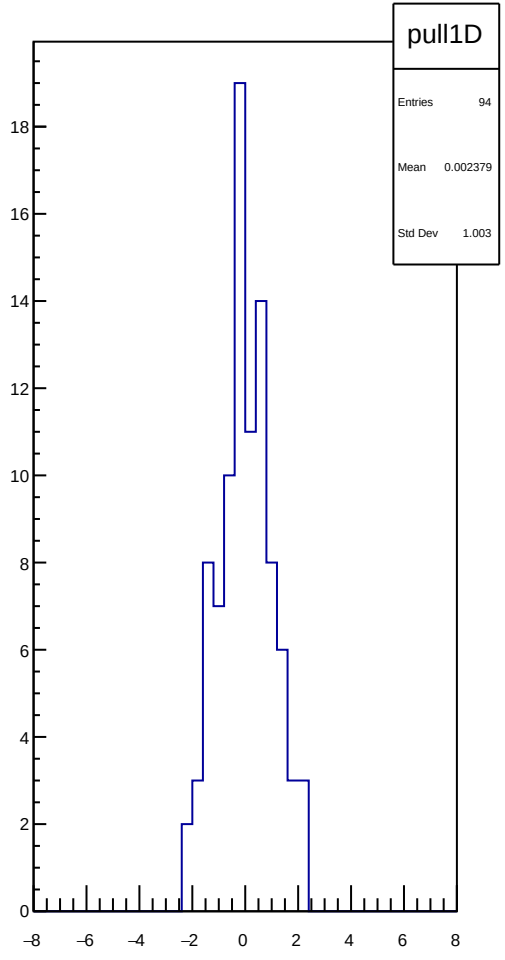

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 140.6 / 93
p0 1286 ± 0.9682
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

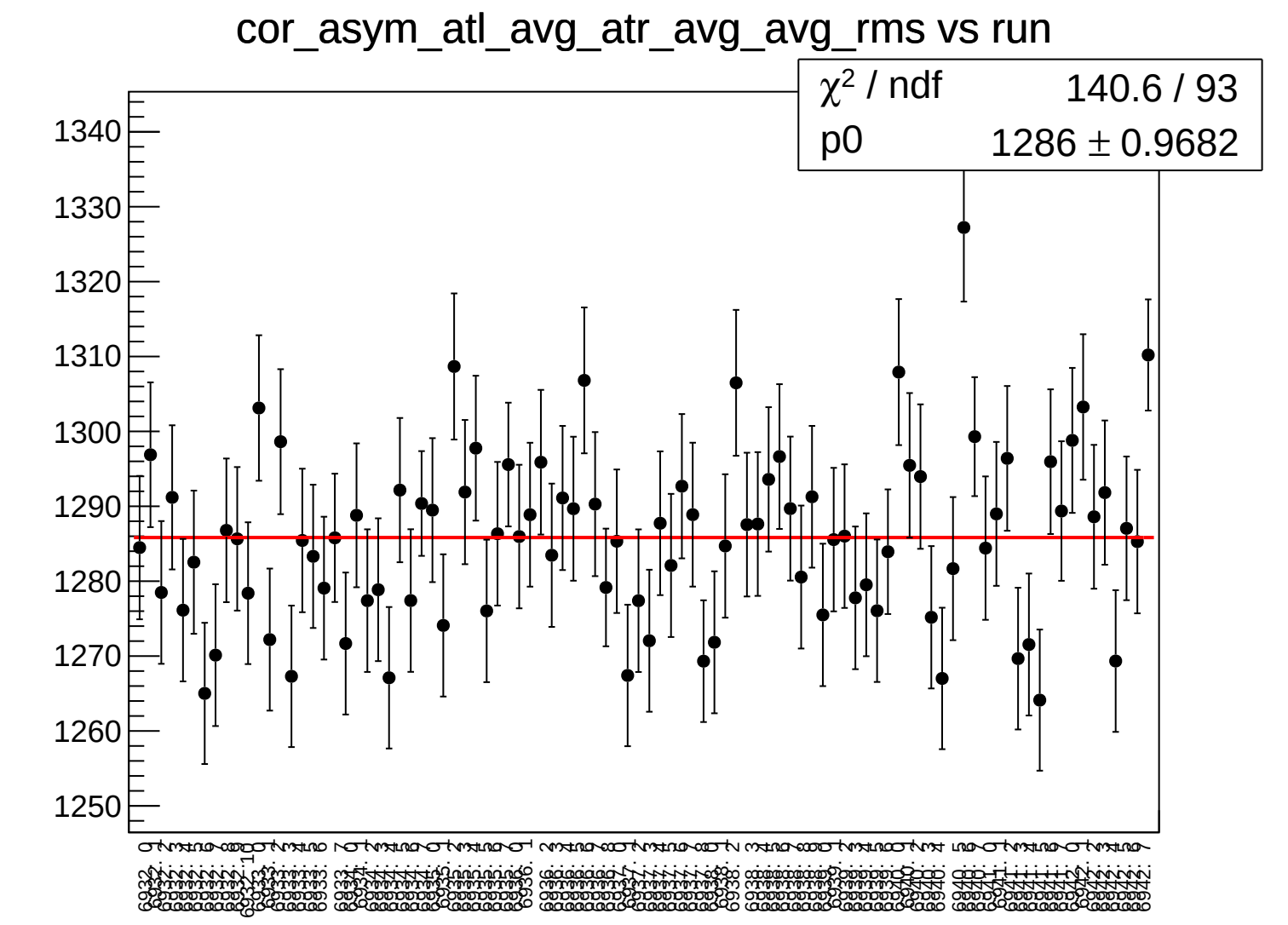

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 7045 ± 6235
200
100
0
−100
−200
pull
Entries 94
Mean 484.3
Std Dev 0
2
1
0
−1
−2

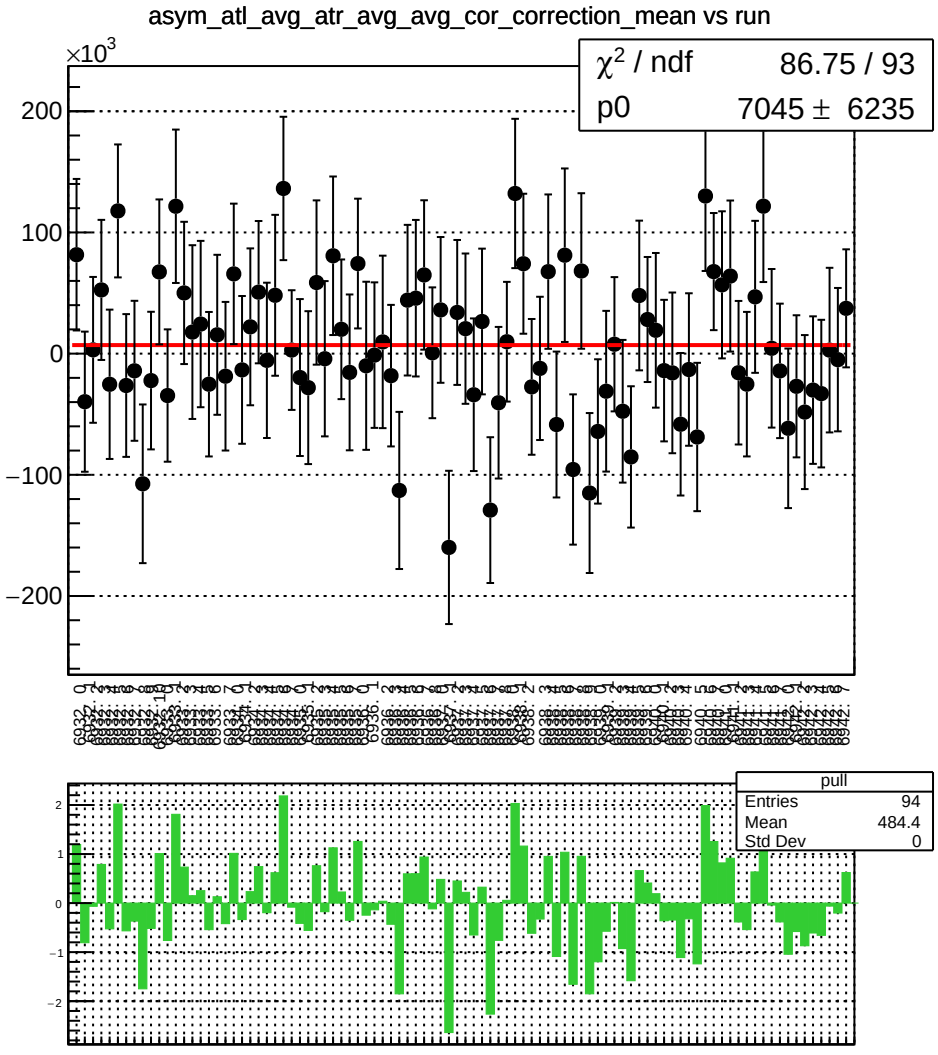

pull1D
Entries 94
Mean −0.007125
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

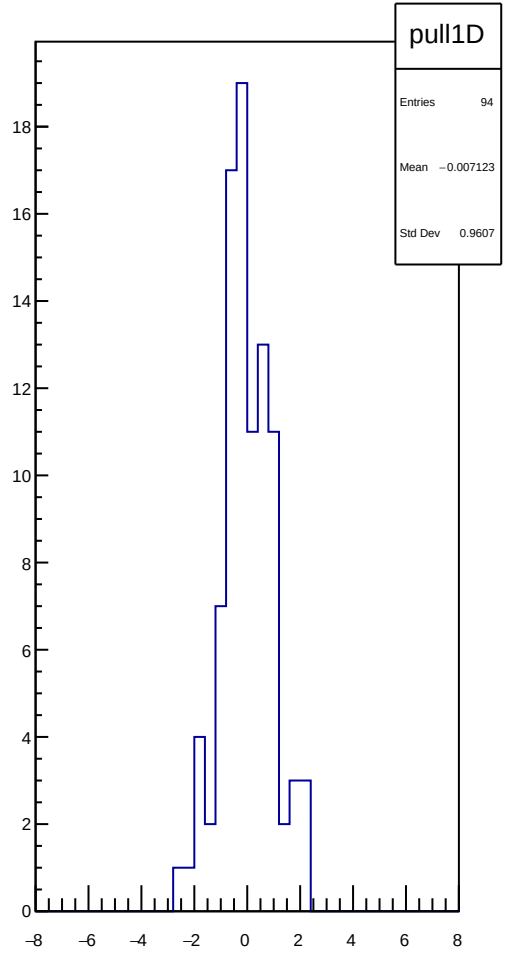

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 6182 / 93
p0 5845 ± 4.409
7000
6500
6000
5500
5000

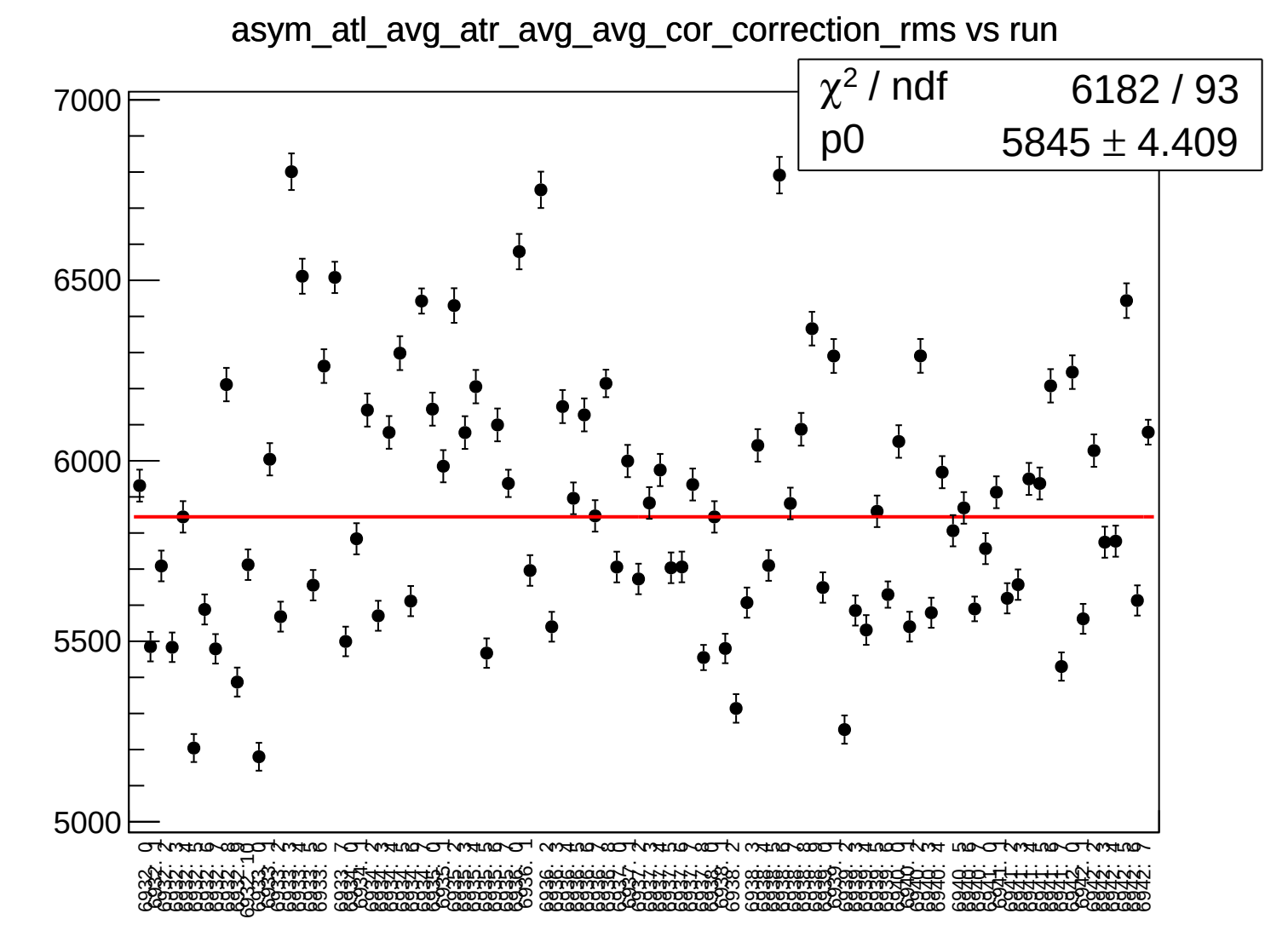

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.64 / 93
p0 −1068 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 323.1
Std Dev 0
2
1
0
−1
−2

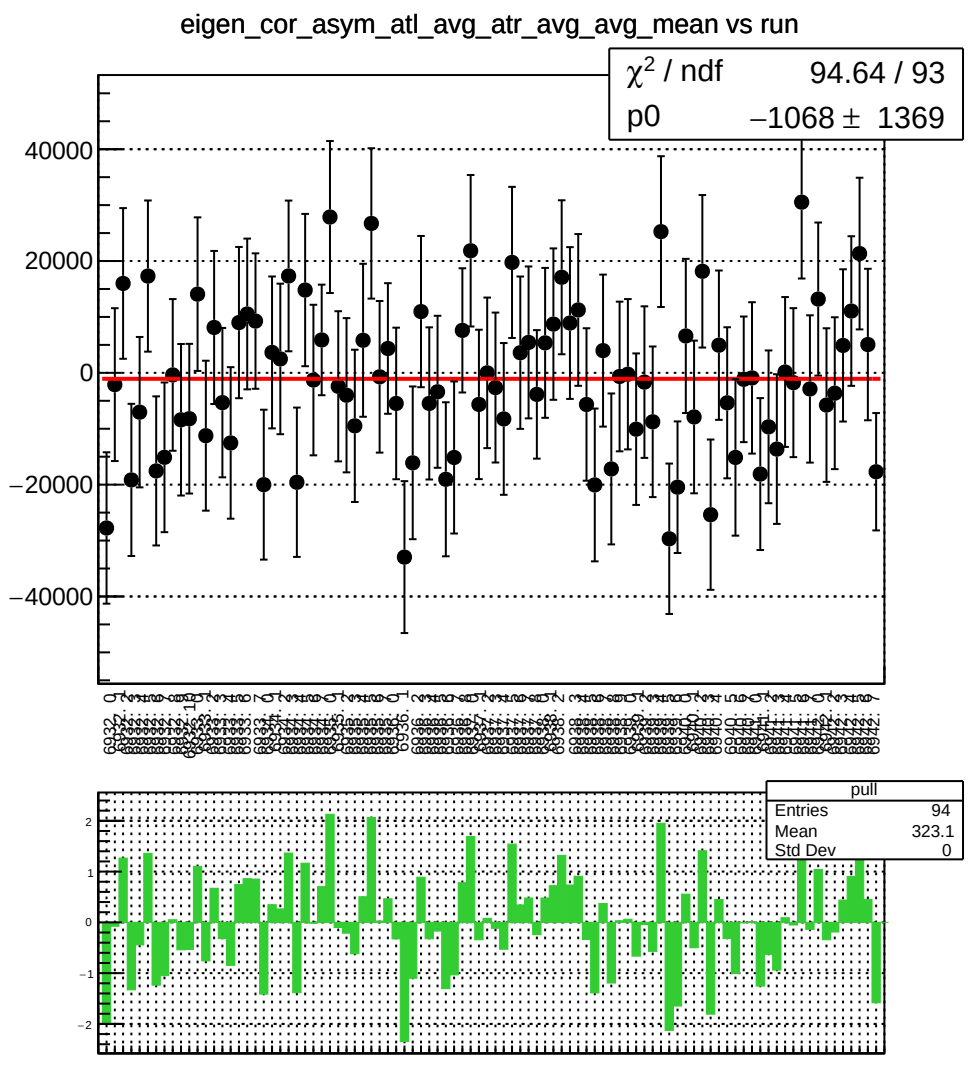

pull1D
Entries 94
Mean 0.002379
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

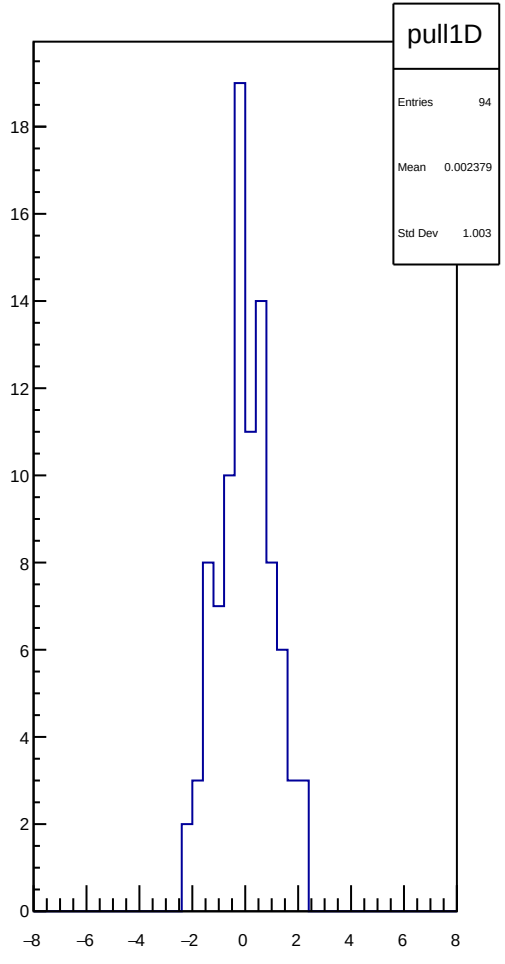

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 140.6 / 93
p0 1286 ± 0.9682
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

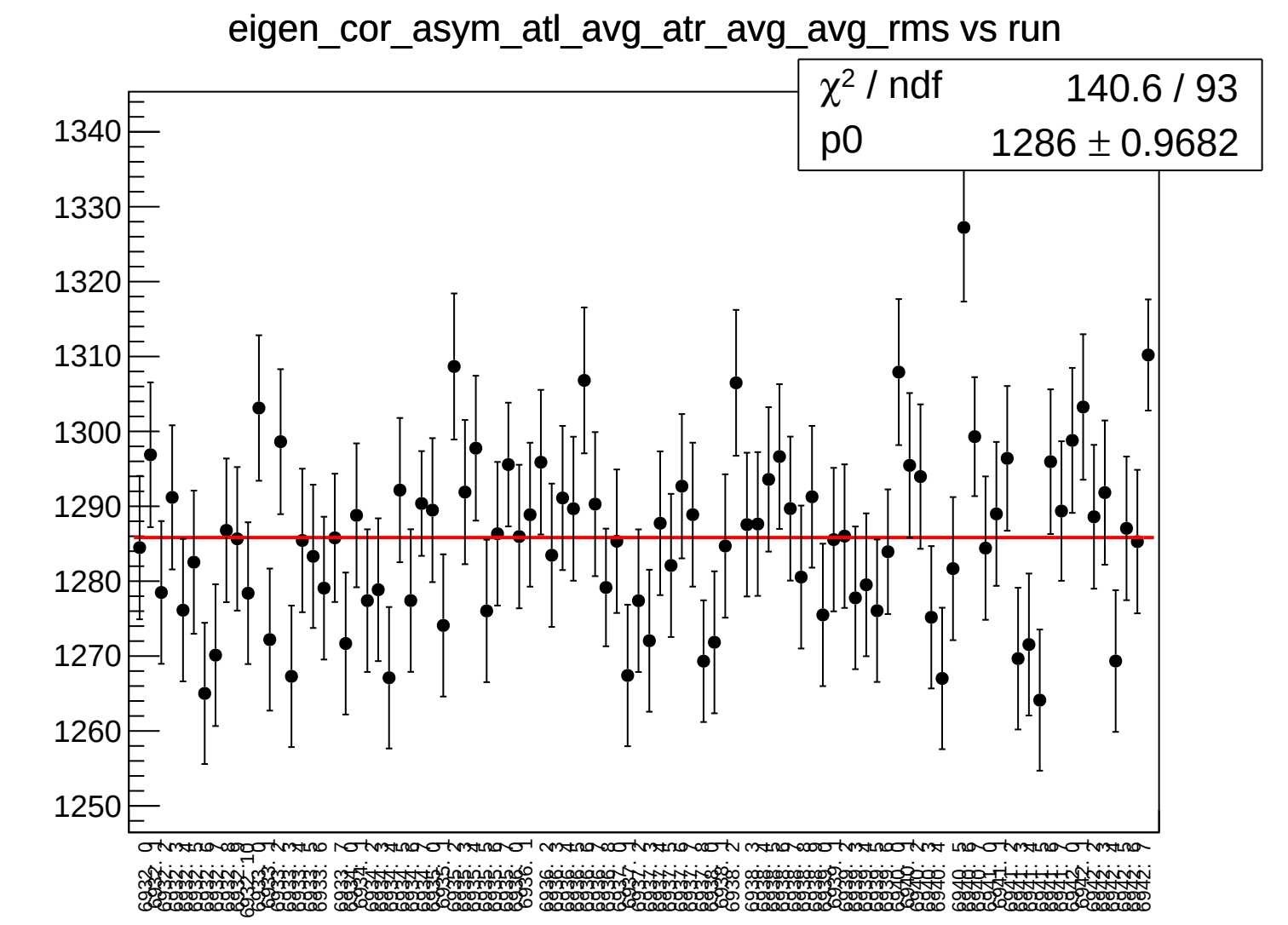

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 7045 ± 6235
200
100
0
−100
−200
pull
Entries 94
Mean 484.4
Std Dev 0
2
1
0
−1
−2

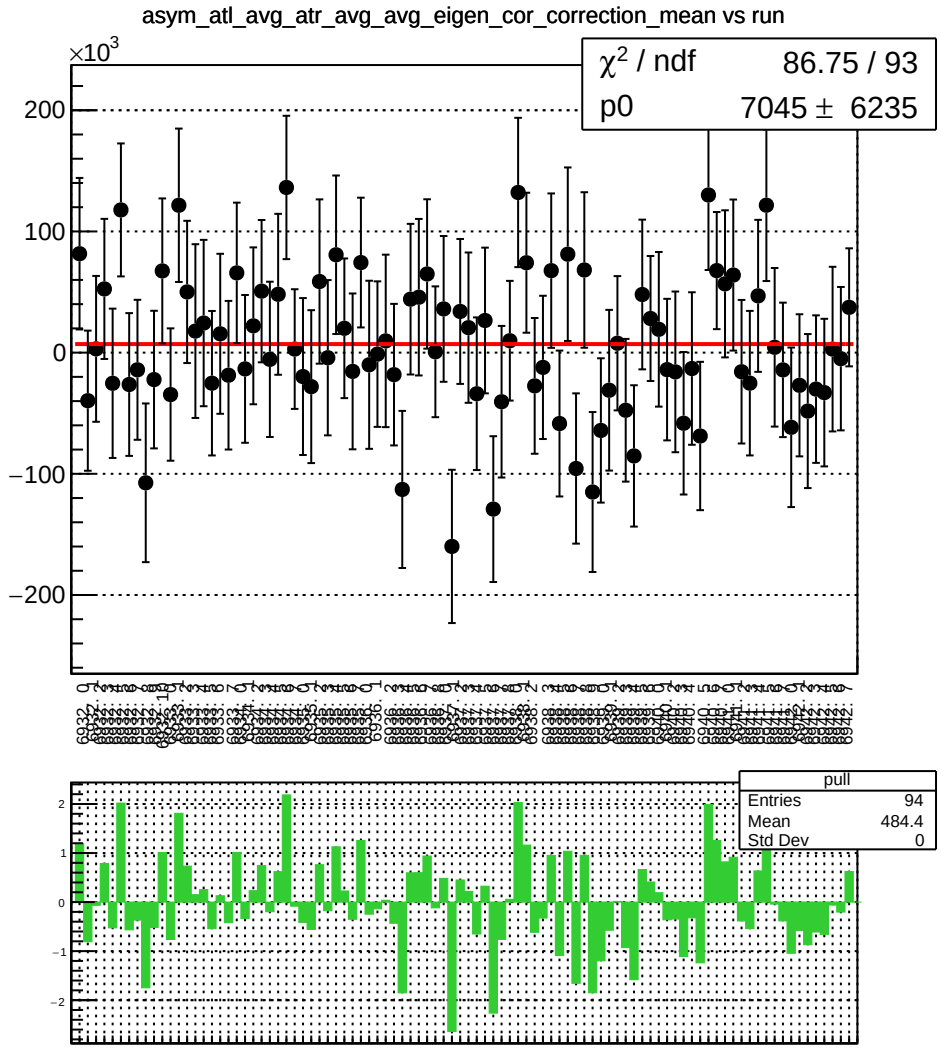

pull1D
Entries 94
Mean −0.007123
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

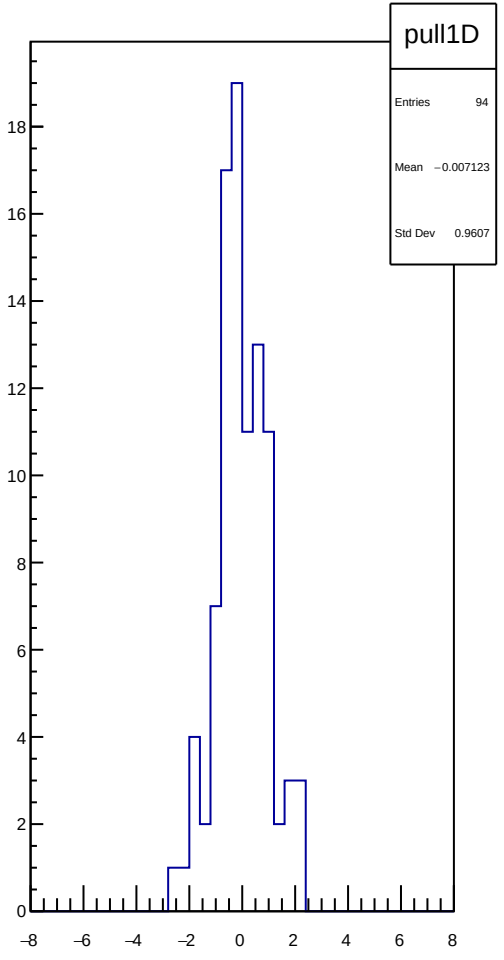

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 6182 / 93
p0 5845 ± 4.409
7000
6500
6000
5500
5000

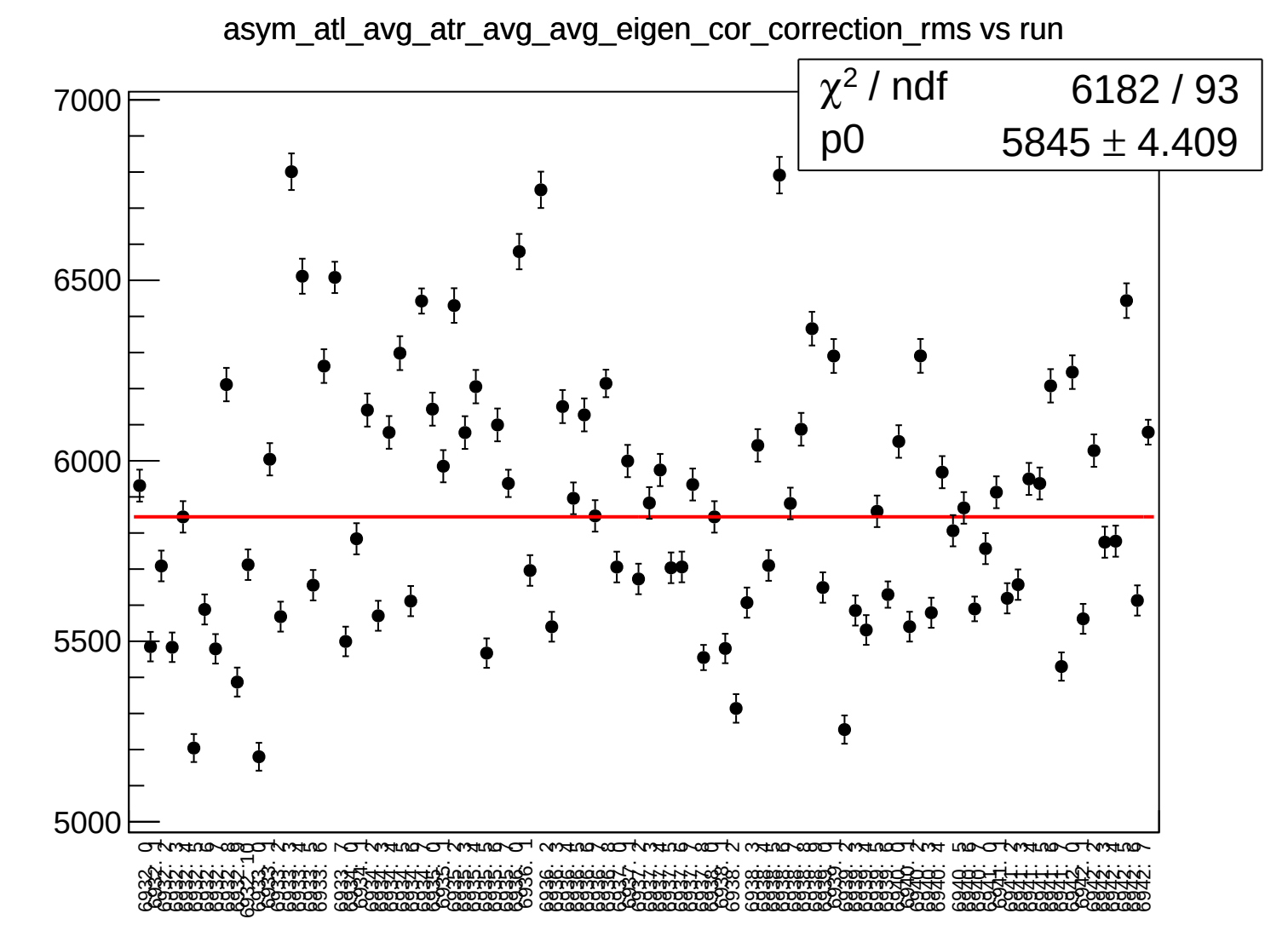

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 94.64 / 93
p0 −1068 ± 1369
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 323.1
Std Dev 0
2
1
0
−1
−2

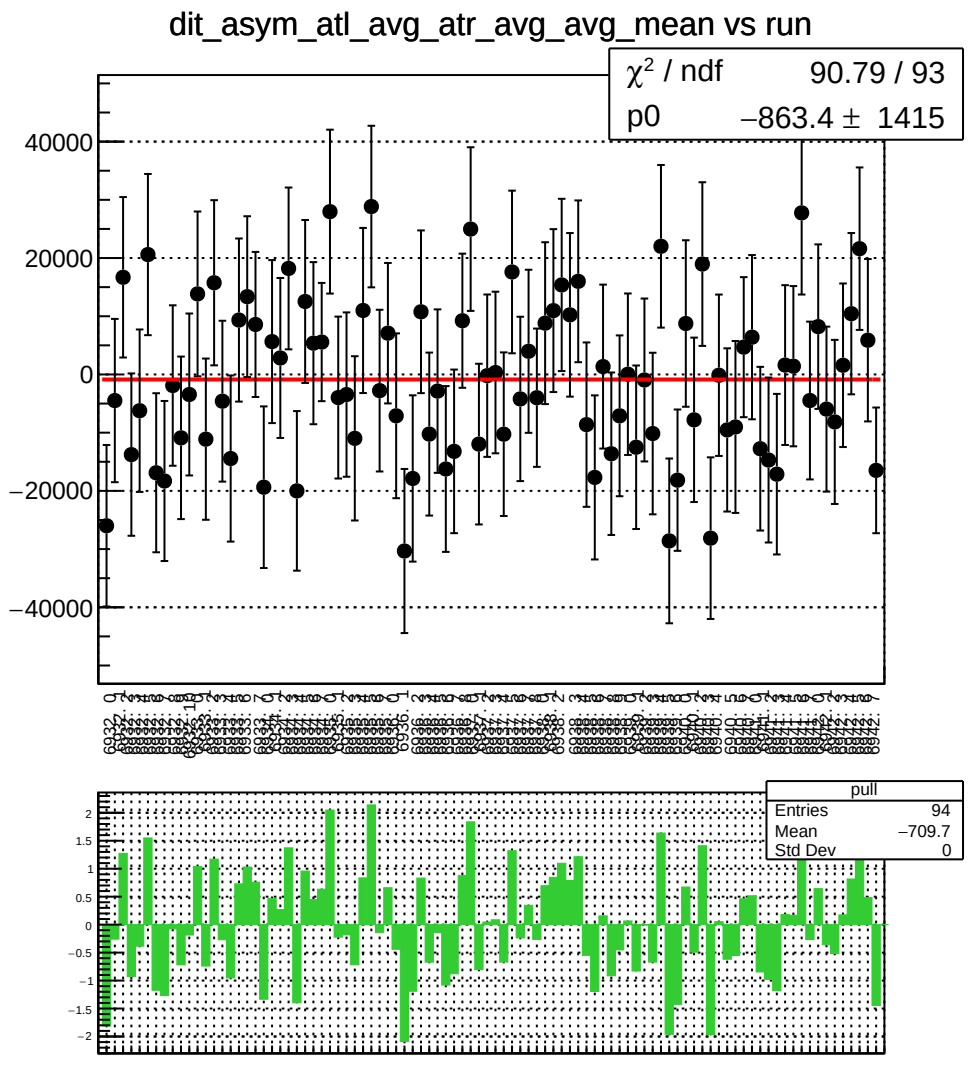

pull1D
Entries 94
Mean 0.002379
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

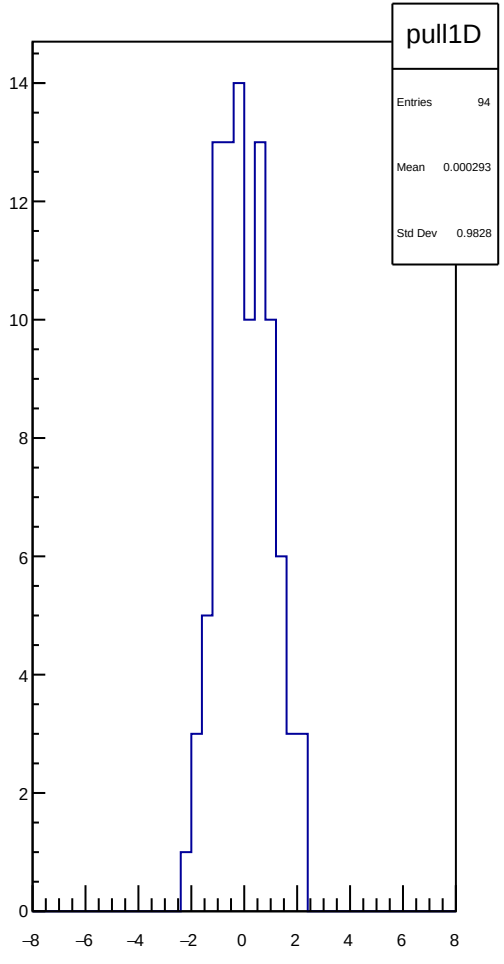

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 140.6 / 93
p0 1286 ± 0.9682
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

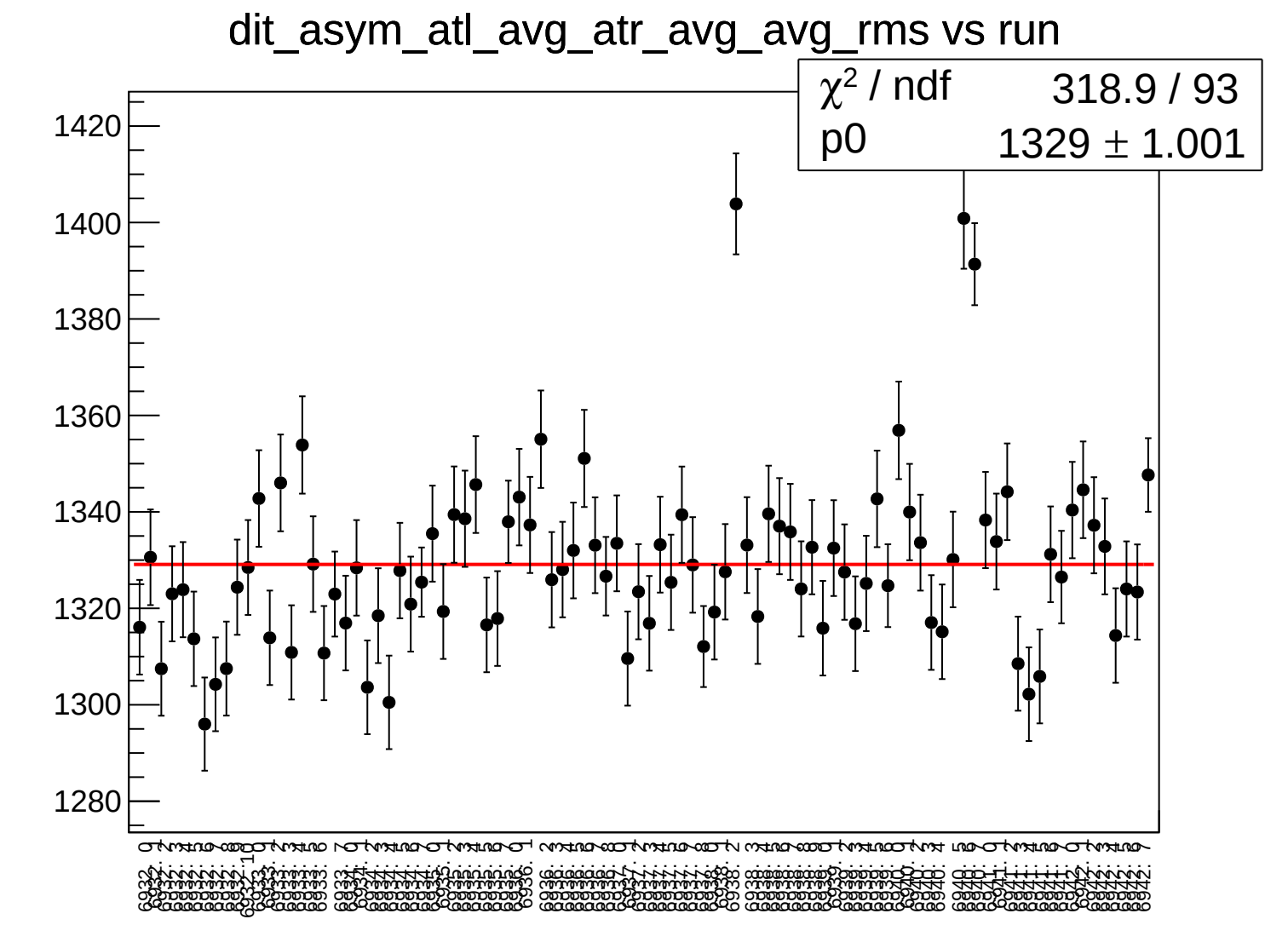

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 7045 ± 6235
200
100
0
−100
−200
pull
Entries 94
Mean 484.4
Std Dev 0
2
1
0
−1
−2

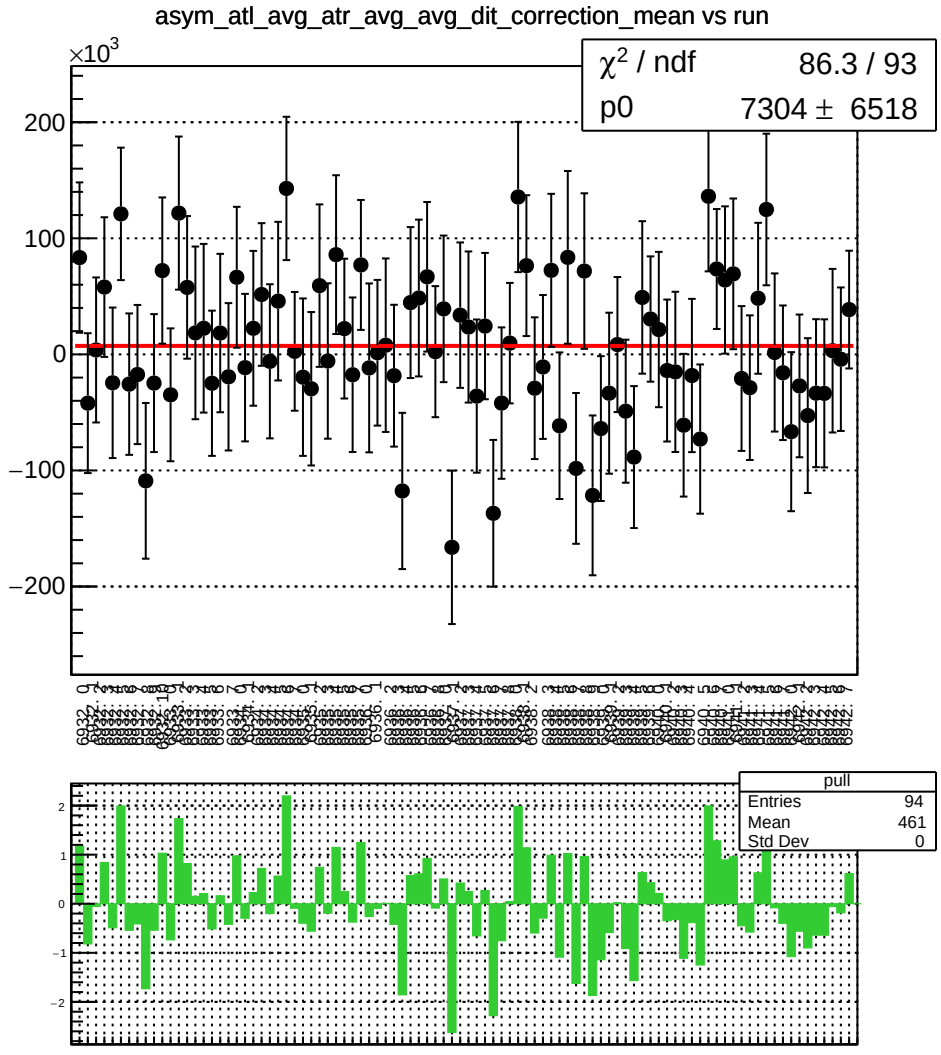

pull1D
Entries 94
Mean −0.007123
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

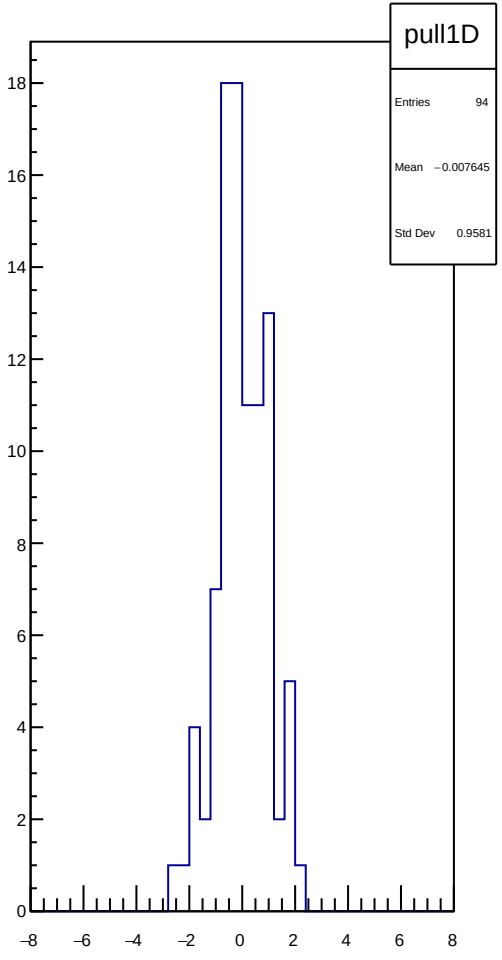

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6182 / 93
p0 5845 ± 4.409
7000
6500
6000
5500
5000

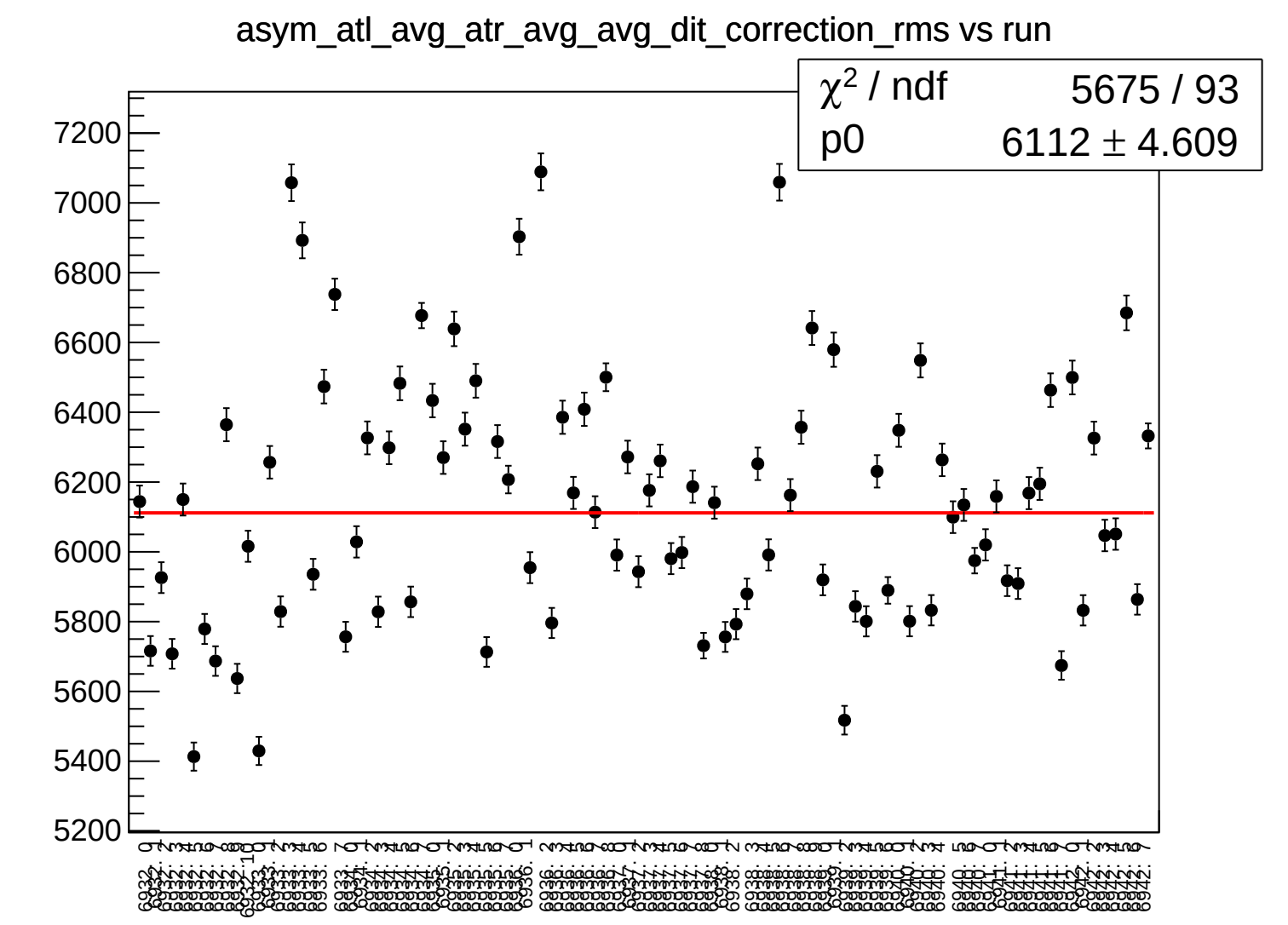

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.79 / 93
p0 −863.4 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −709.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

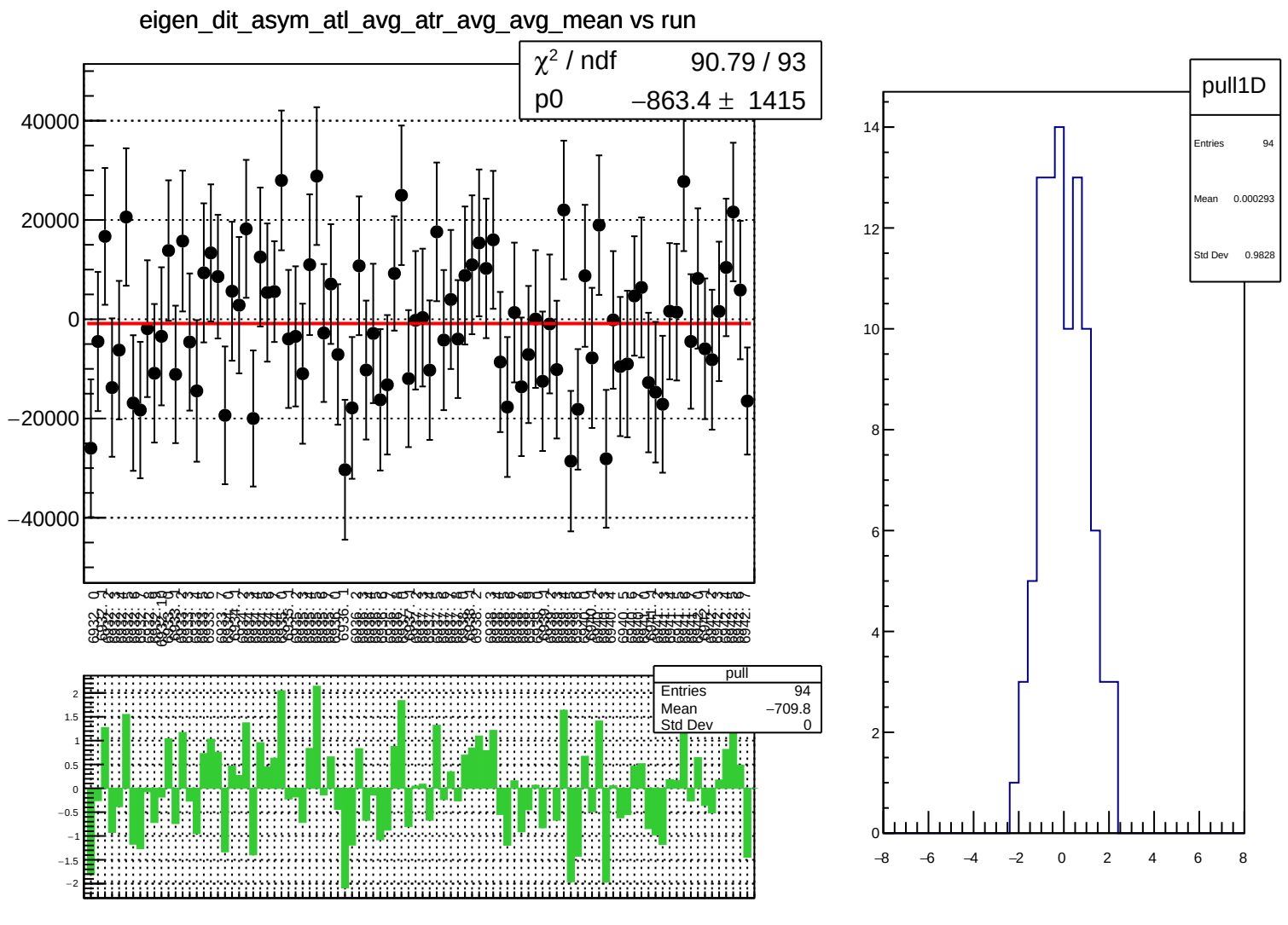

pull1D
Entries 94
Mean 0.000293
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

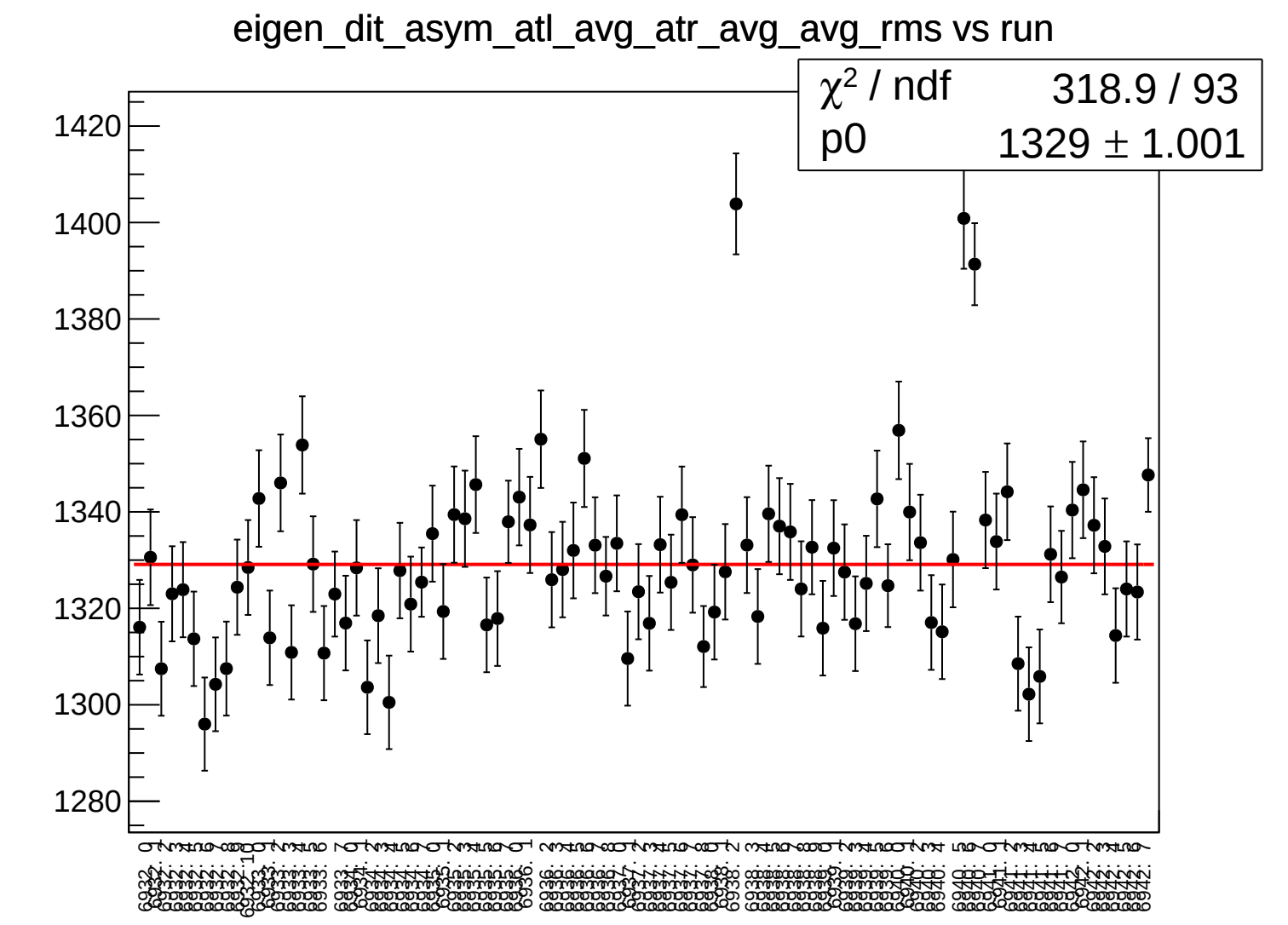

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 318.9 / 93
p0 1329 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280

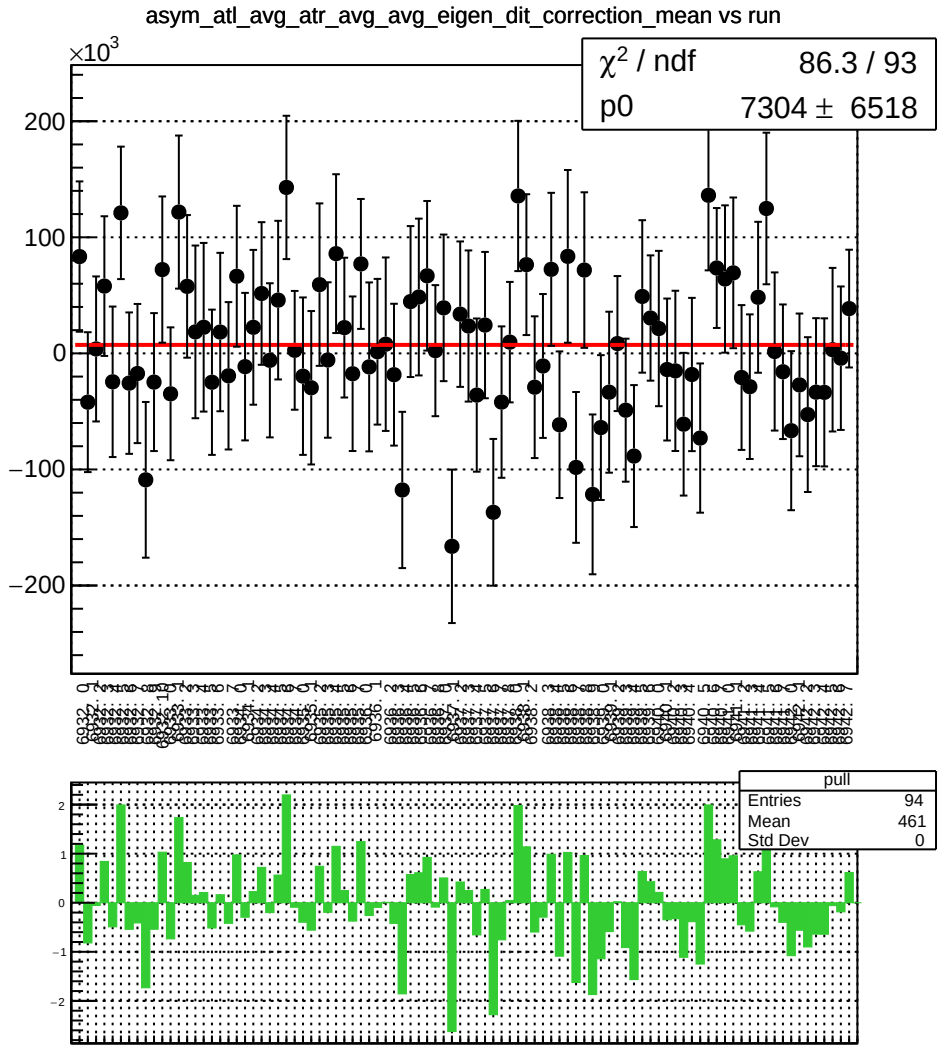

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
χ² / ndf 86.3 / 93
p0 7304 ± 6518
pull
Entries 94
Mean 461
Std Dev 0

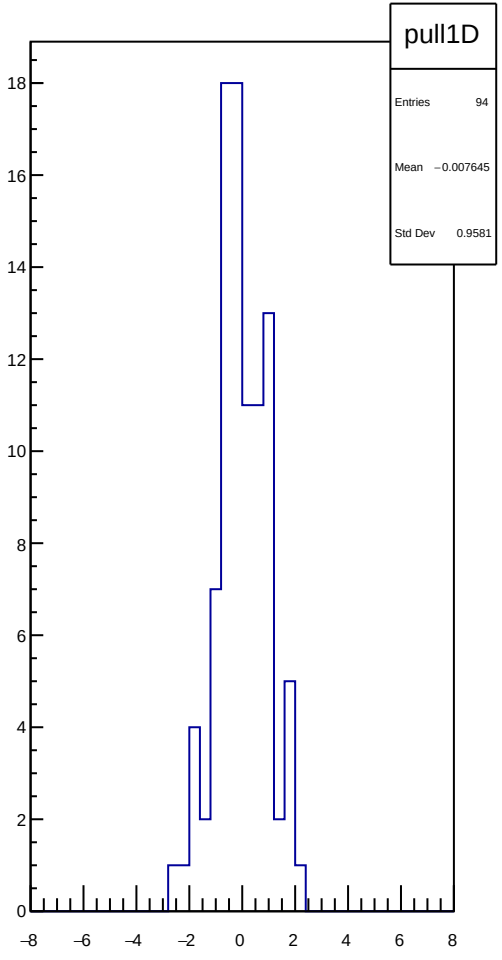

pull1D
Entries 94
Mean −0.007645
Std Dev 0.9581

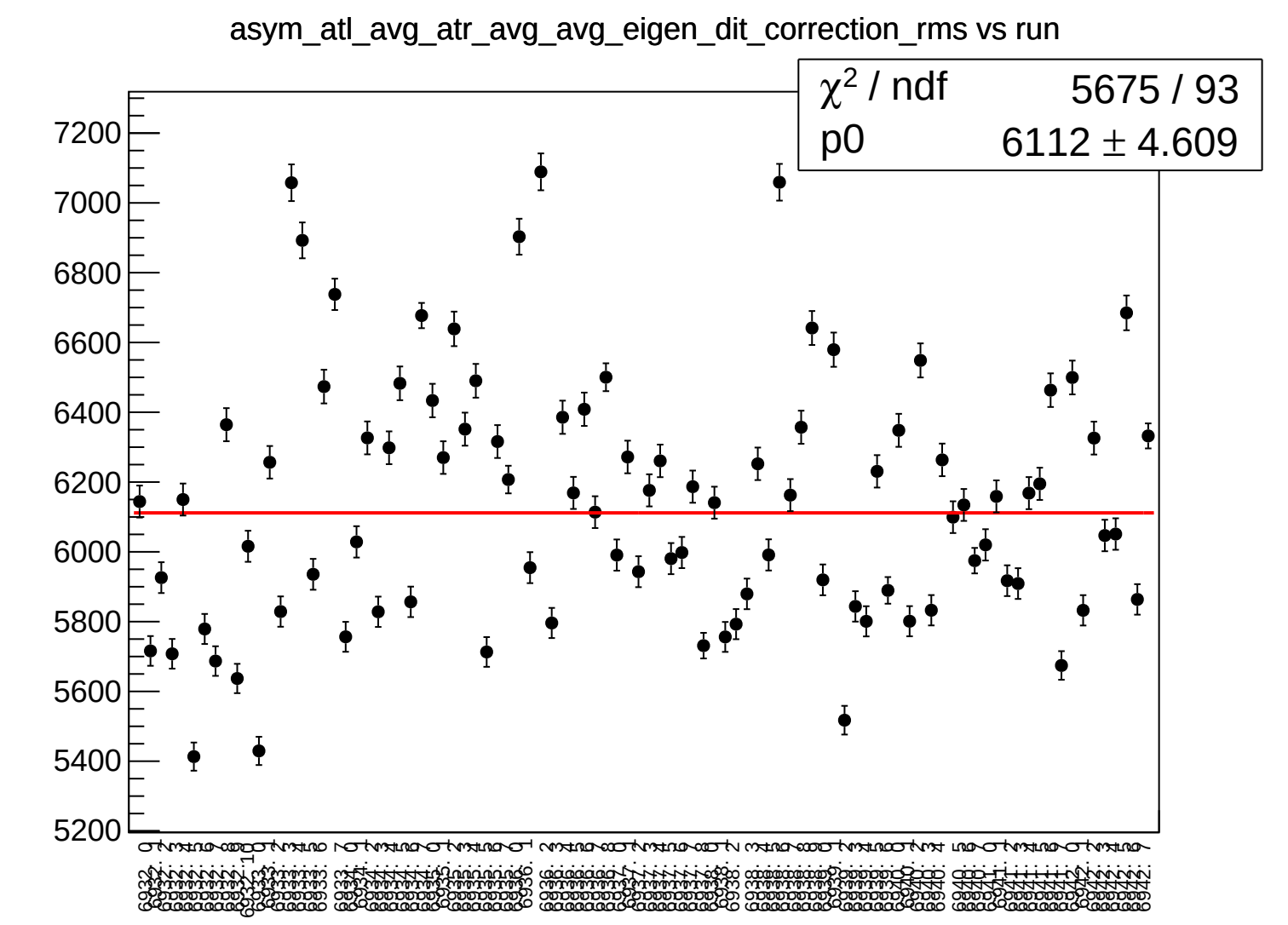

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5675 / 93
p0 6112 ± 4.609
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

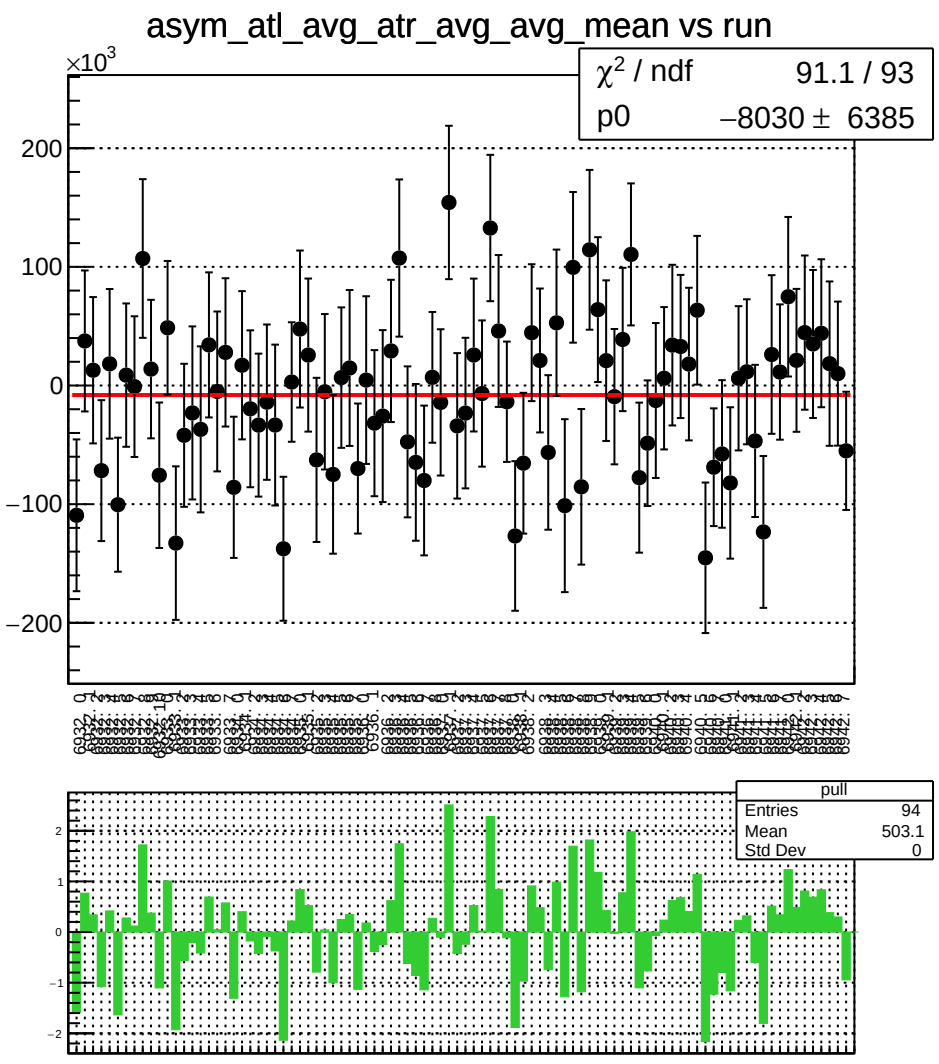

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.79 / 93
p0 −863.4 ± 1415
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −709.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.000293
Std Dev 0.9828
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

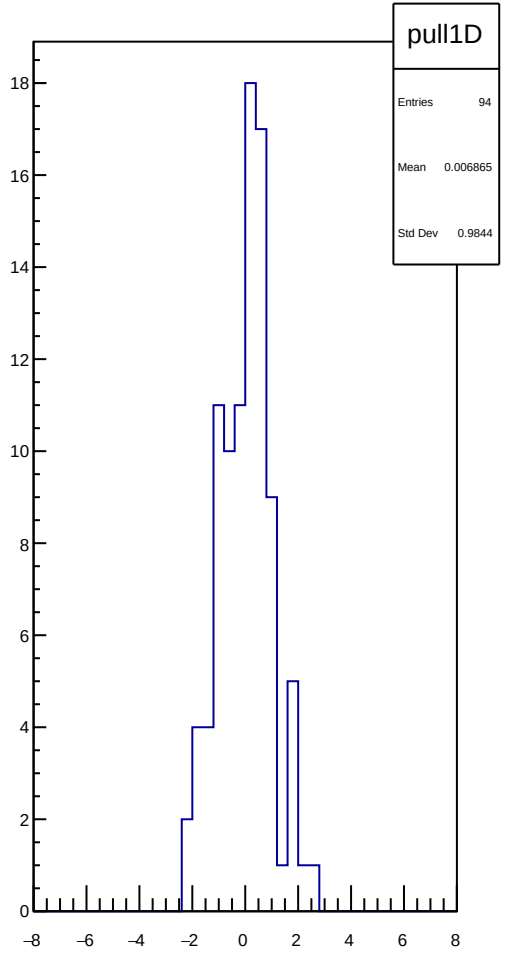

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 318.9 / 93
p0 1329 ± 1.001
1420
1400
1380
1360
1340
1320
1300
1280

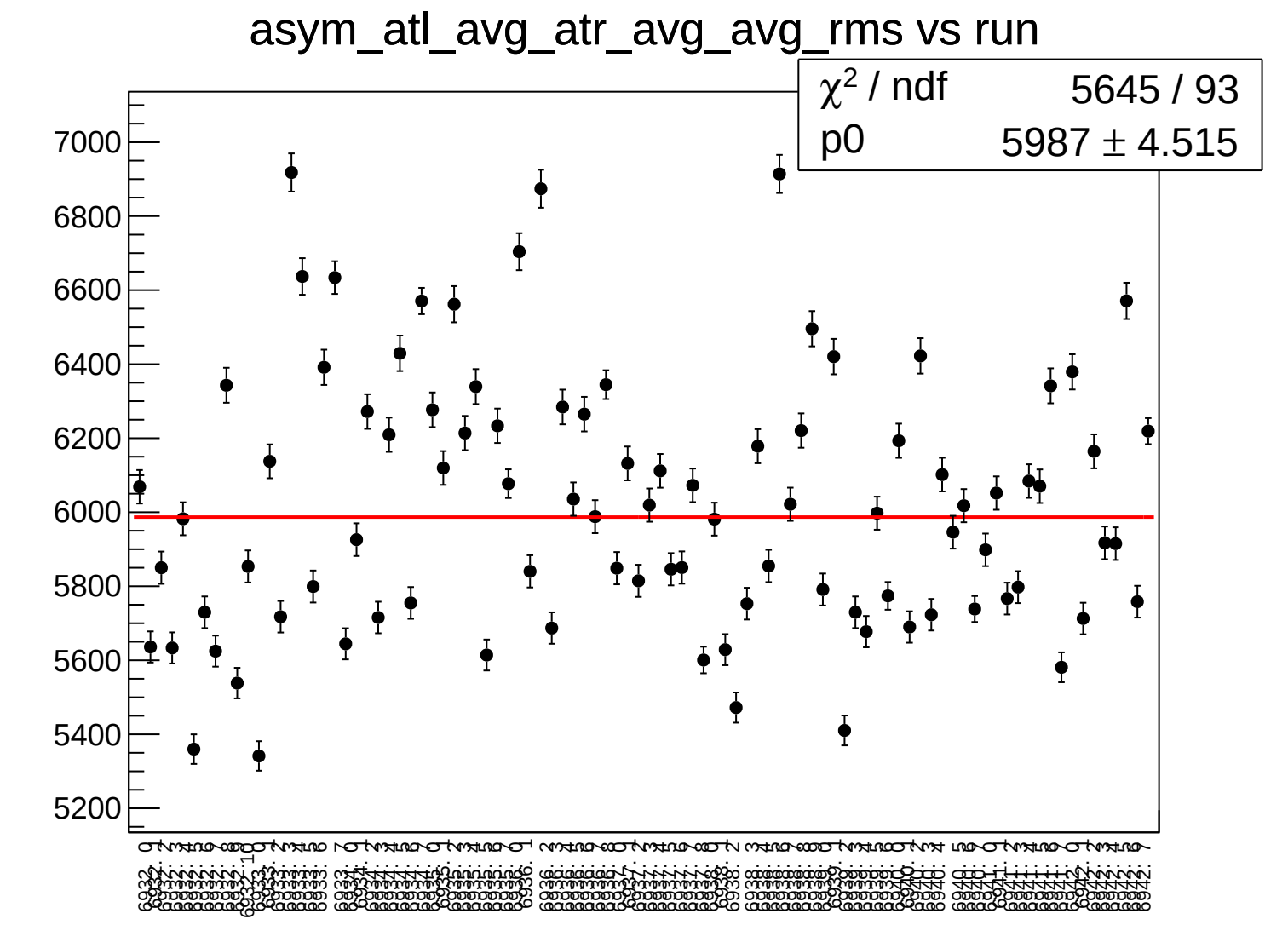

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 93
p0 7304 ± 6518
200
100
0
−100
−200
pull
Entries 94
Mean 461
Std Dev 0
2
1
0
−1
−2

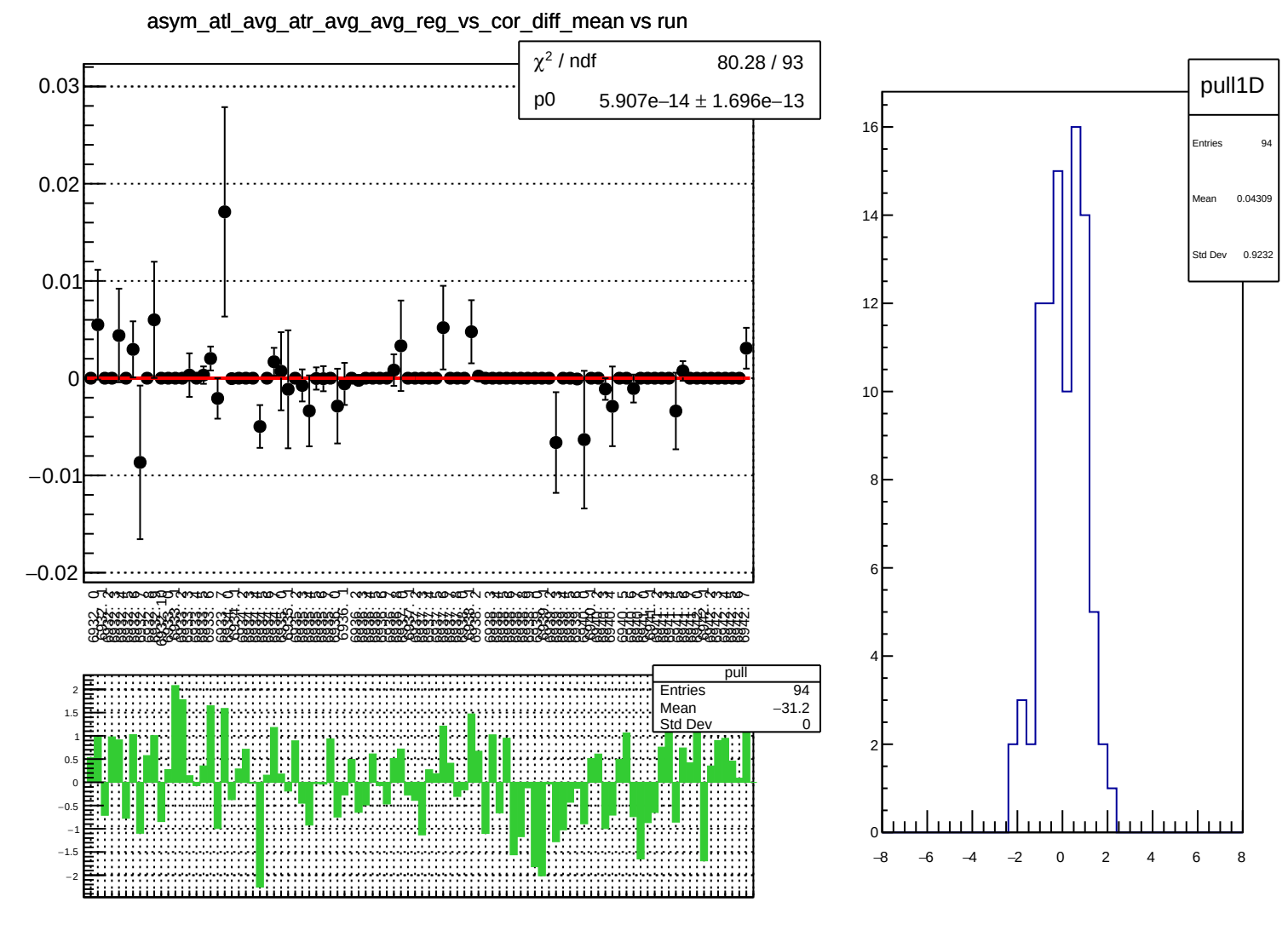

pull1D
Entries 94
Mean −0.007645
Std Dev 0.9581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

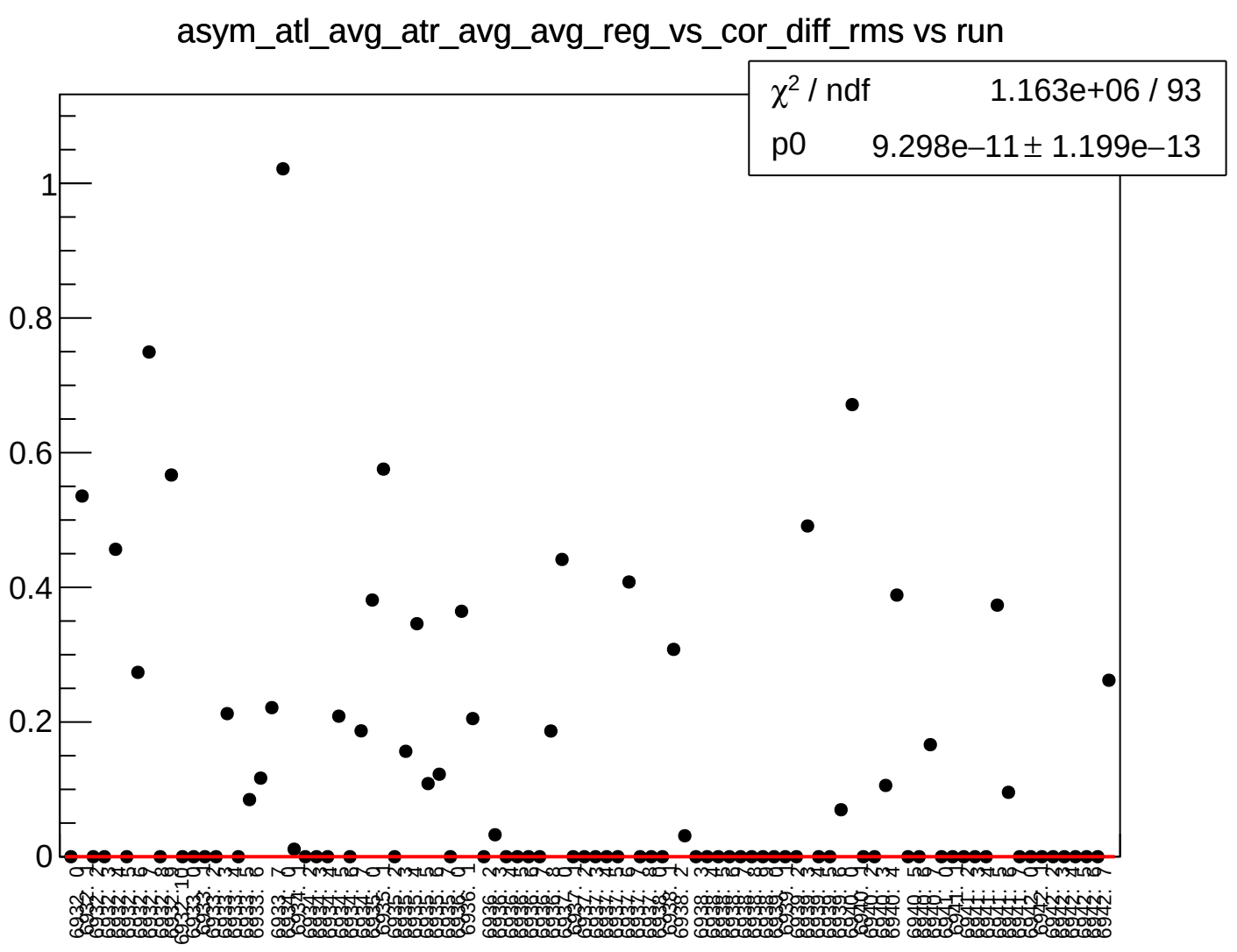

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5675 / 93
p0 6112 ± 4.609
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

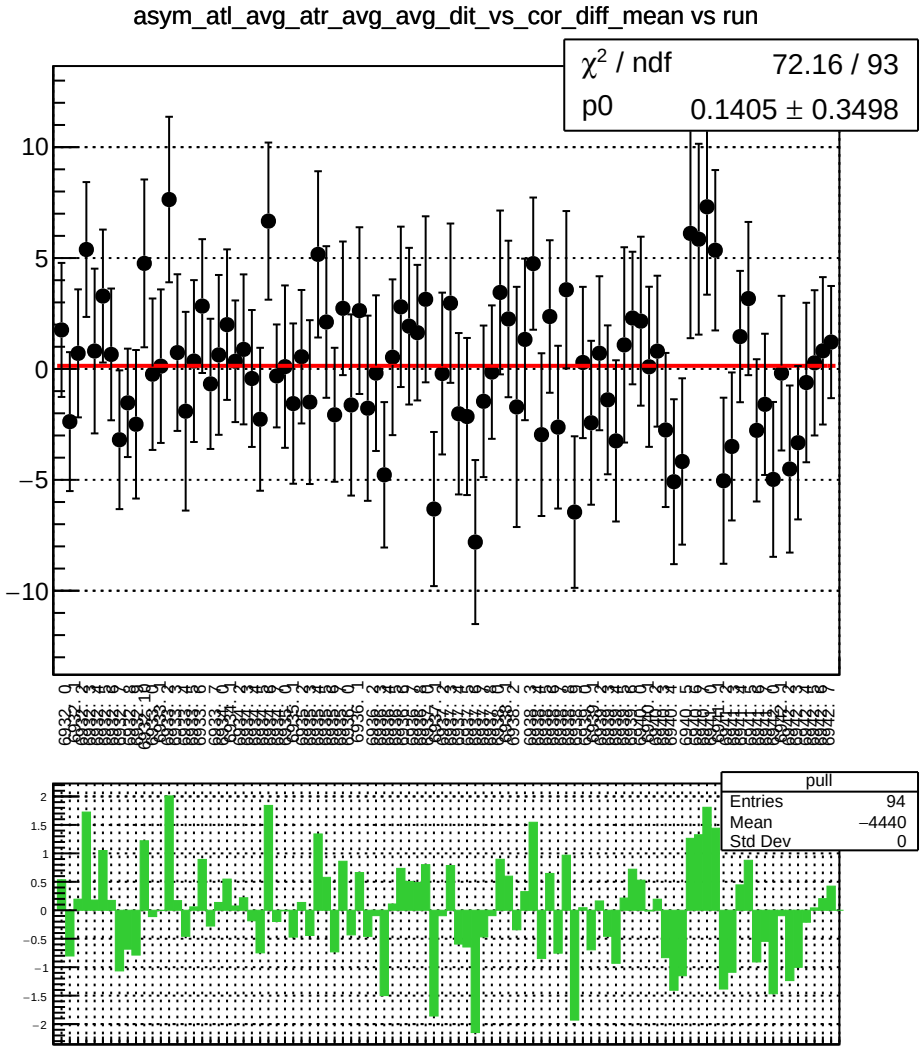

asym_atl_avg_atr_avg_avg_mean vs run
χ^2 / ndf 91.1 / 93
p0 −8030 ± 6385
×10^3
200
100
0
−100
−200
pull
Entries 94
Mean 503.1
Std Dev 0
2
1
0
−1
−2

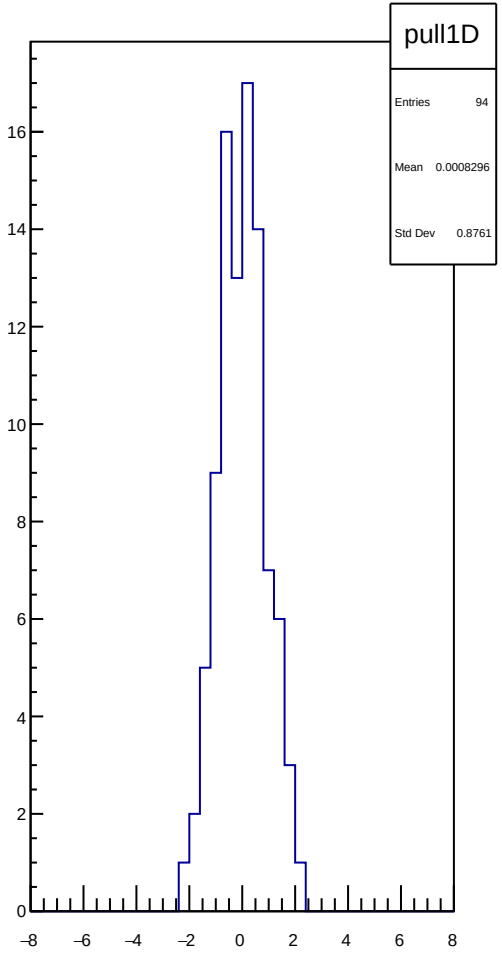

pull1D
Entries 94
Mean 0.006865
Std Dev 0.9844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

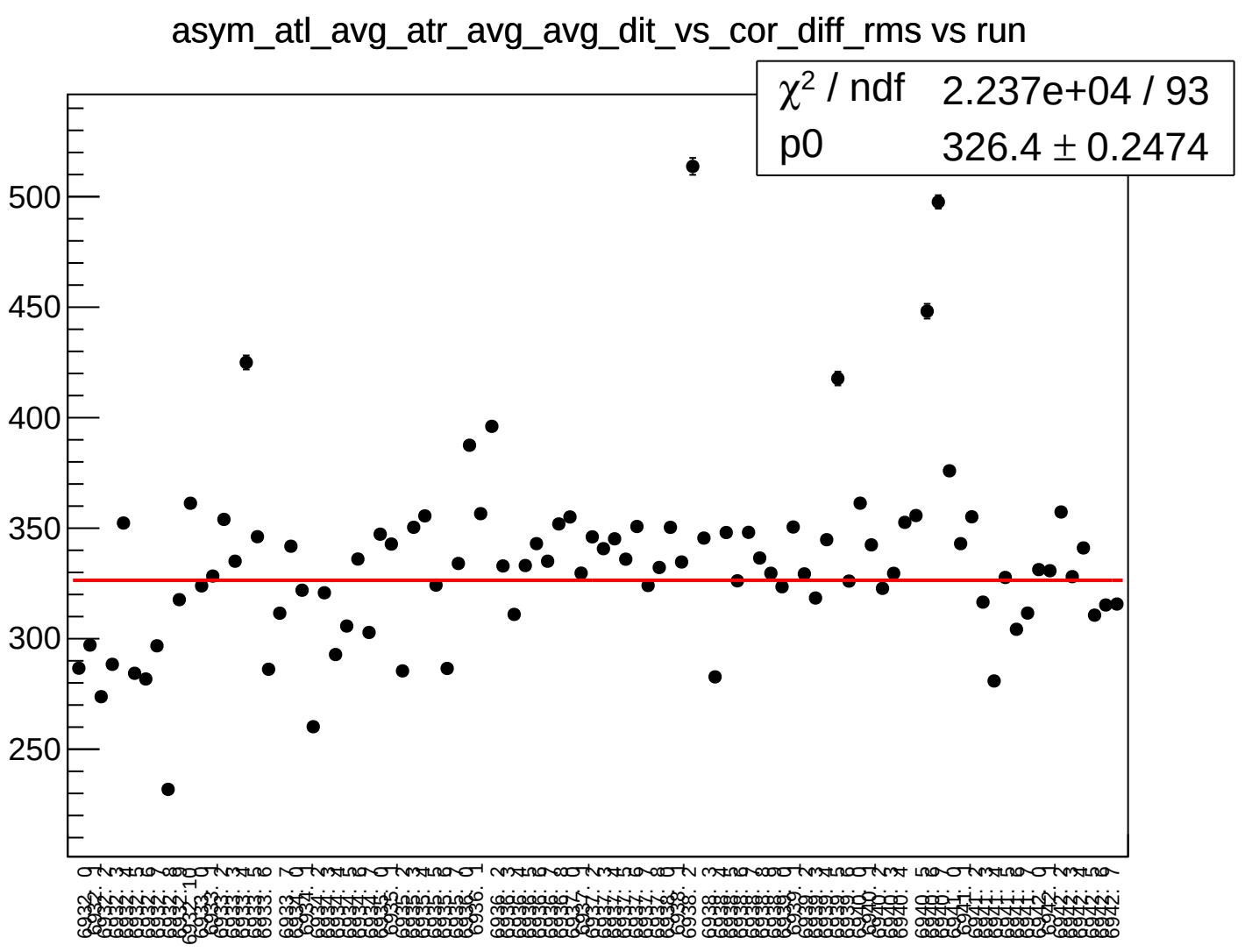

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 5645 / 93
p0 5987 ± 4.515
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

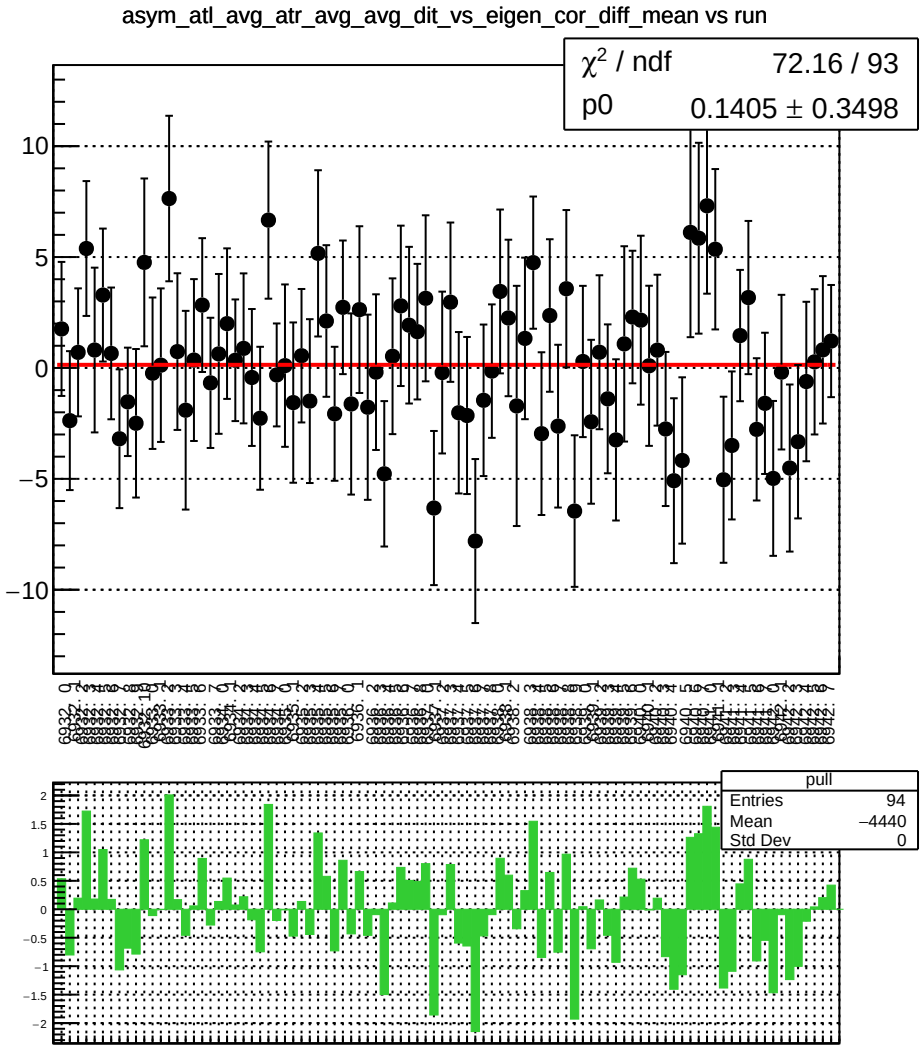

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.28 / 93
p0 5.907e−14 ± 1.696e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −31.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.04309
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

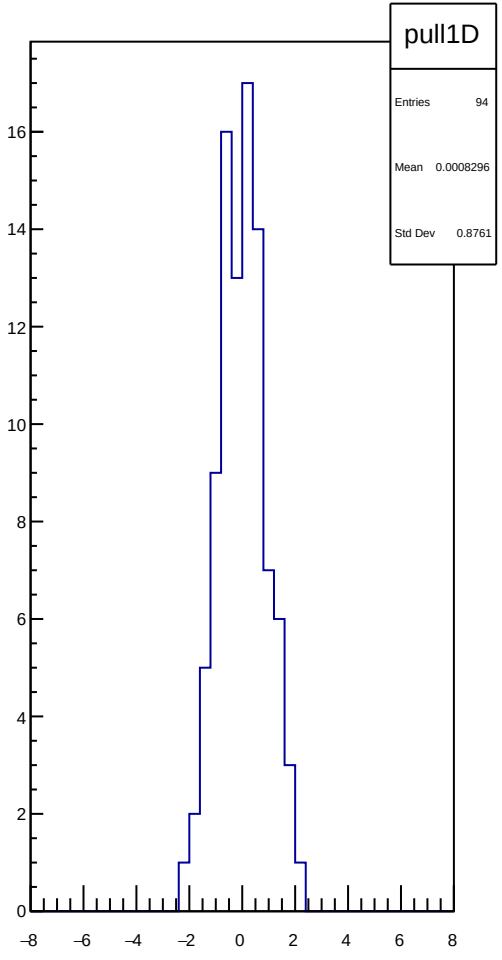

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.163e+06 / 93
p0 9.298e−11 ± 1.199e−13
1
0.8
0.6
0.4
0.2
0

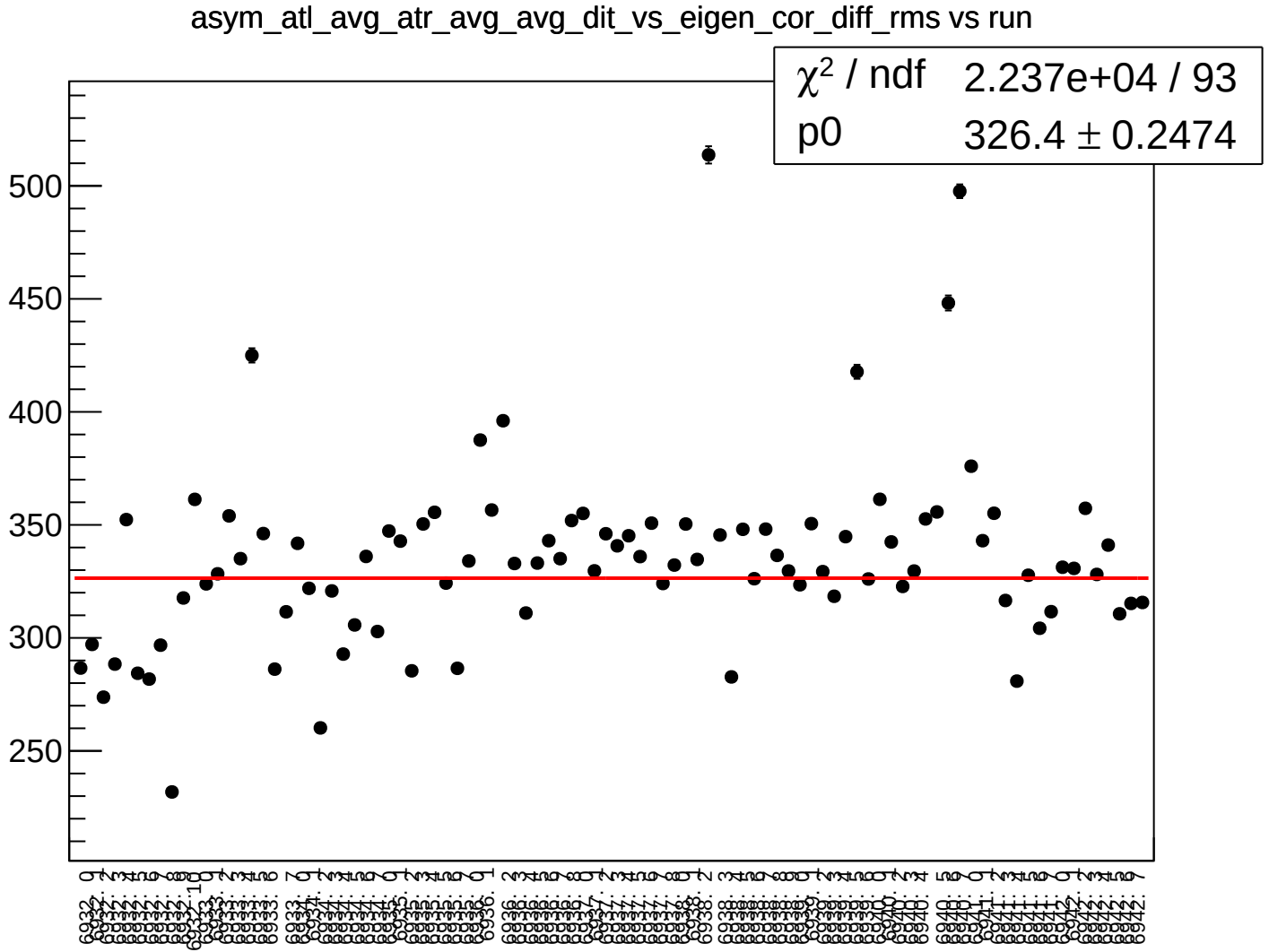

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.16 / 93
p0 0.1405 ± 0.3498
pull
Entries 94
Mean −4440
Std Dev 0

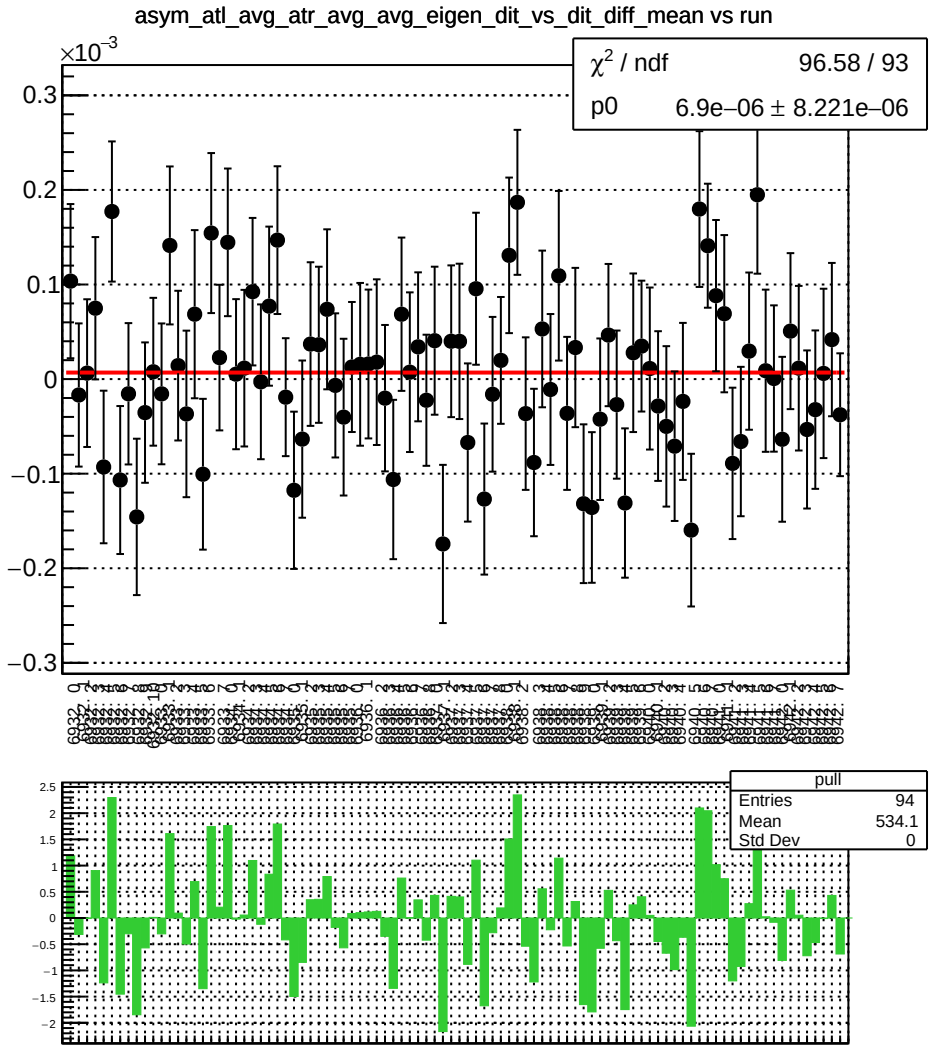

pull1D
Entries 94
Mean 0.0008296
Std Dev 0.8761

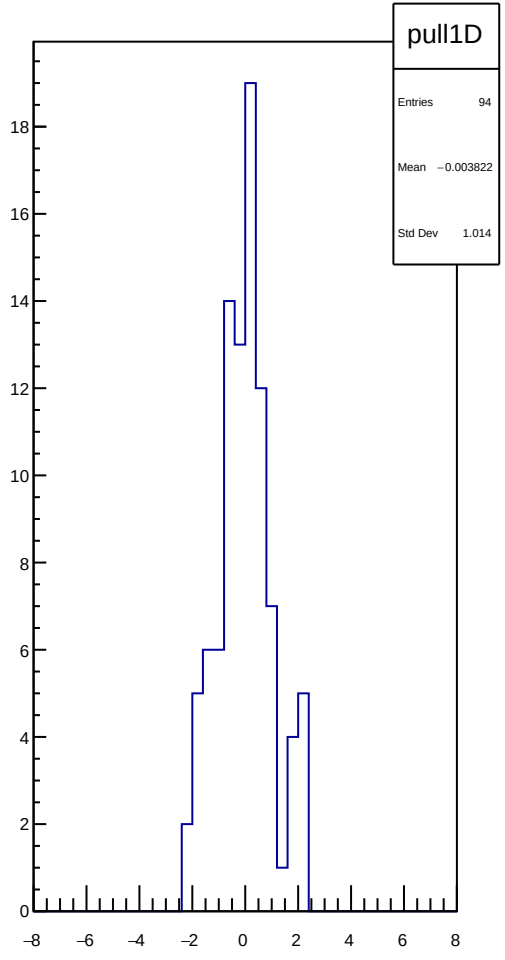

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.237e+04 / 93
p0 326.4 ± 0.2474
500
450
400
350
300
250

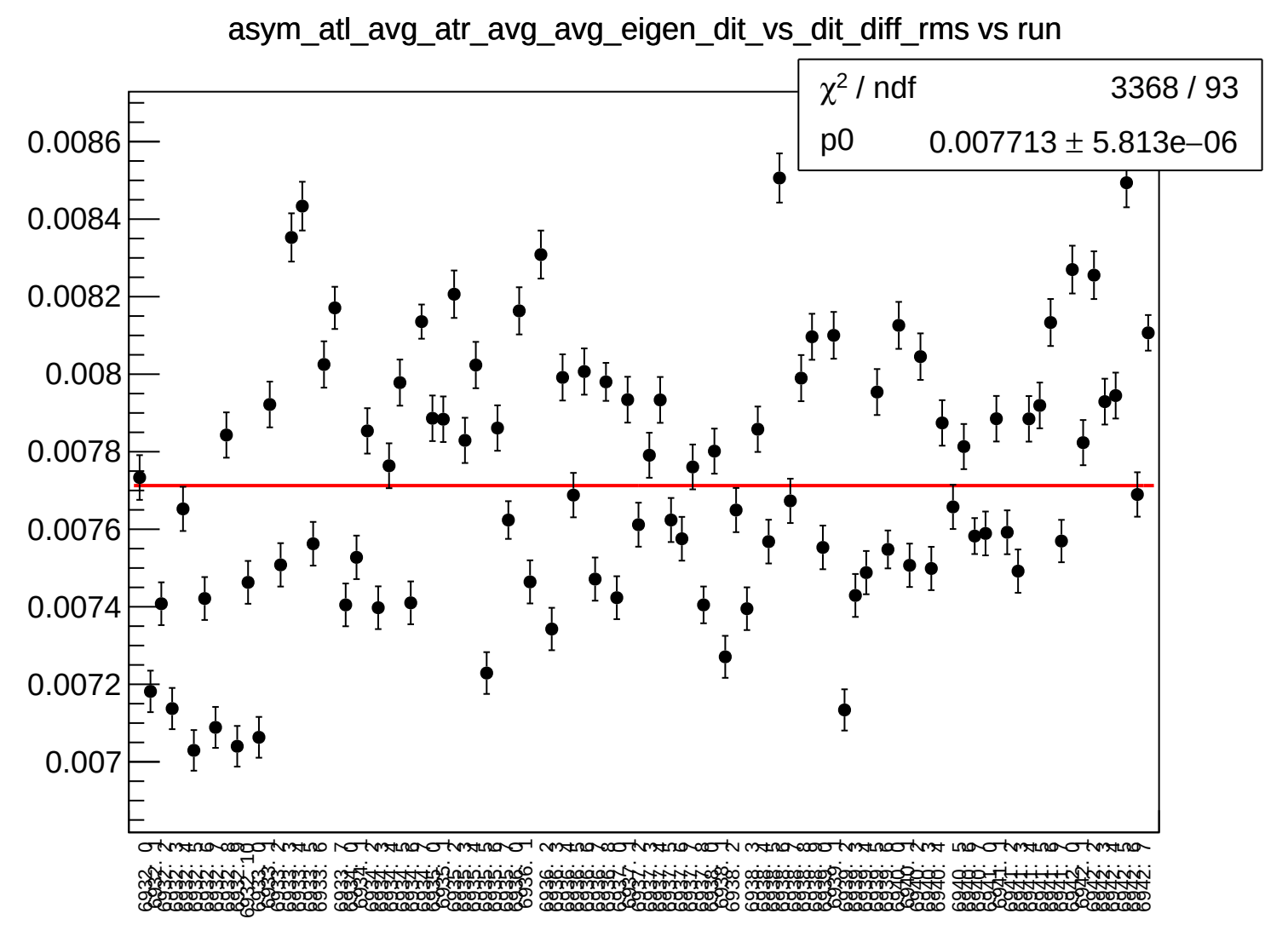

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.16 / 93
p0 0.1405 ± 0.3498
pull
Entries 94
Mean −4440
Std Dev 0

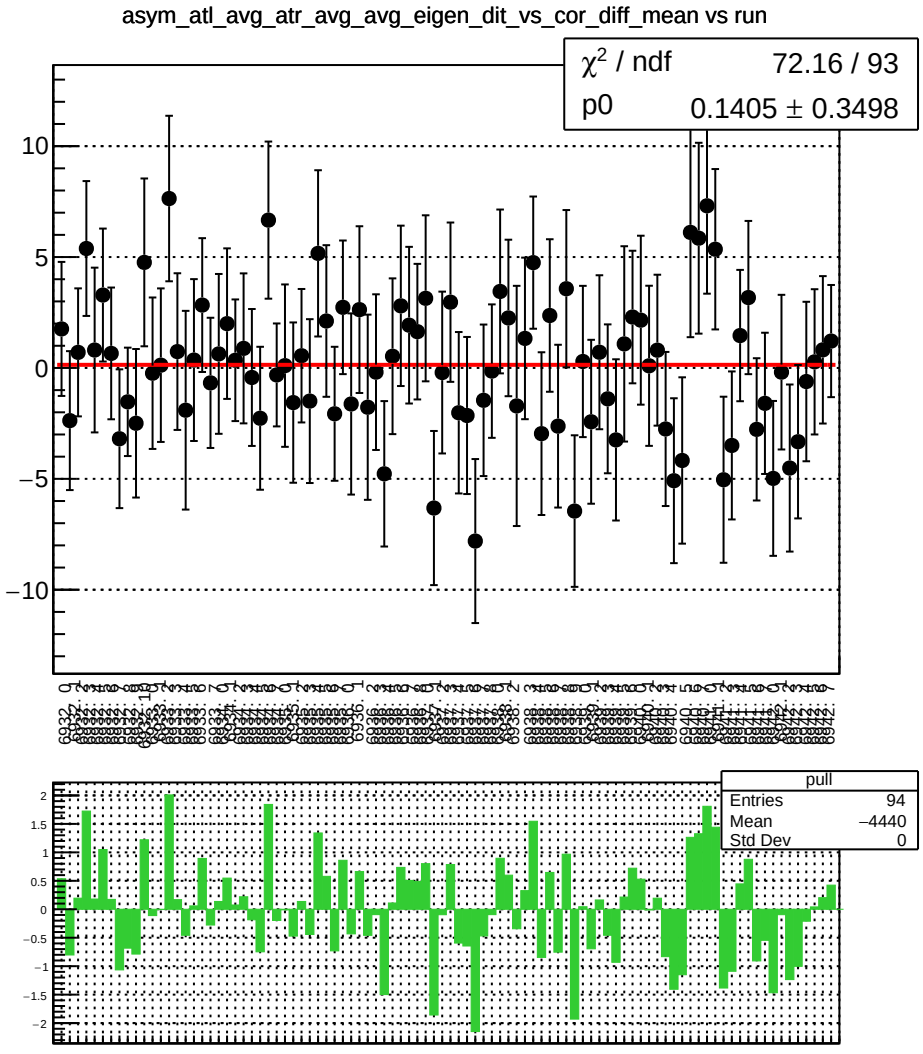

pull1D
Entries 94
Mean 0.0008296
Std Dev 0.8761

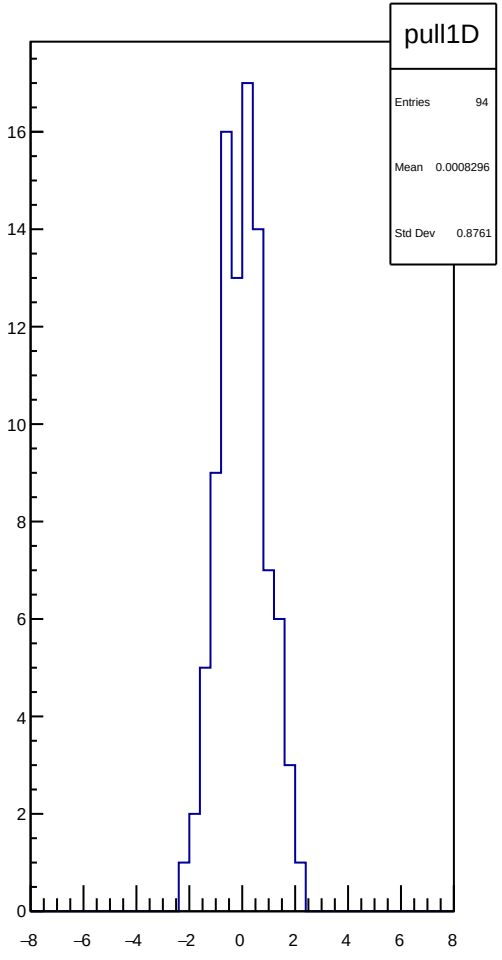

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.237e+04 / 93
p0 326.4 ± 0.2474
500
450
400
350
300
250

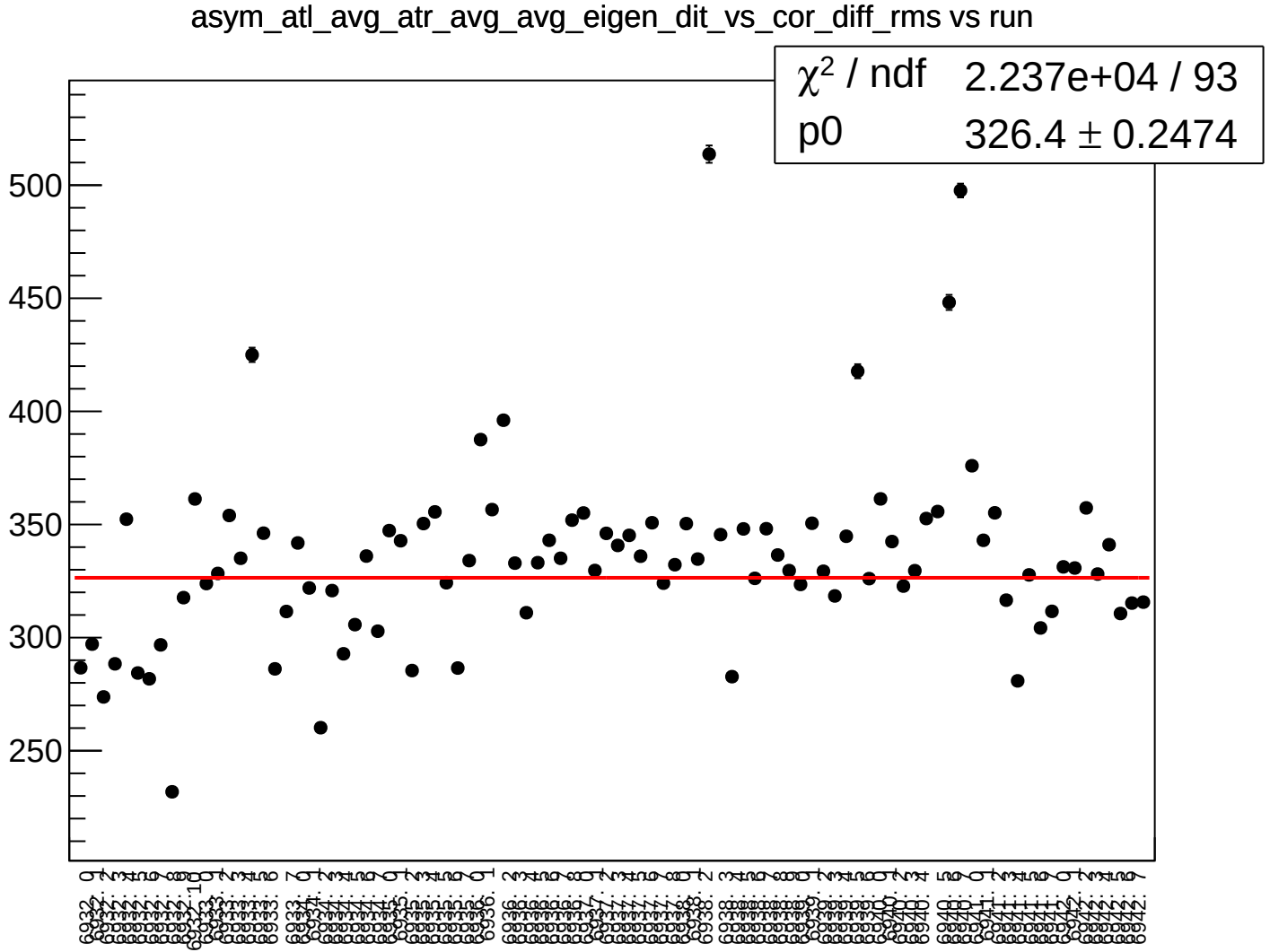

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.58 / 93
p0 6.9e−06 ± 8.221e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean 534.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

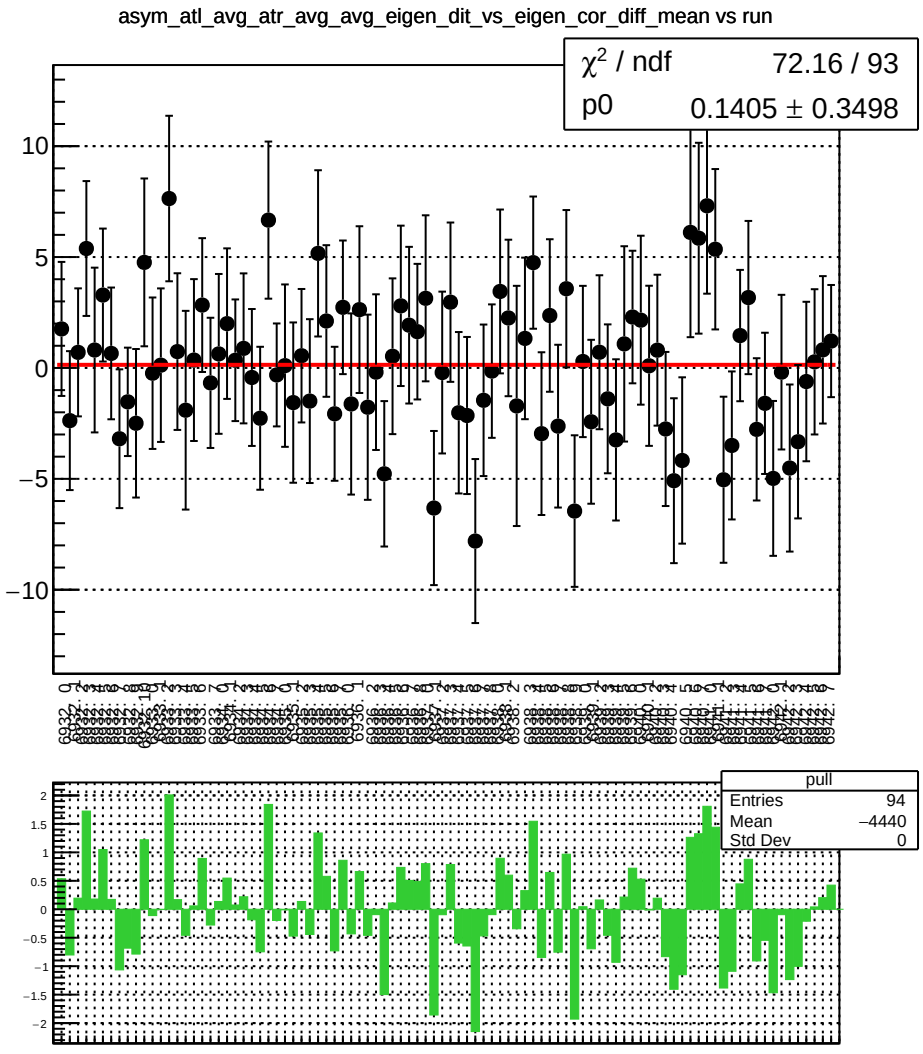

pull1D
Entries 94
Mean −0.003822
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

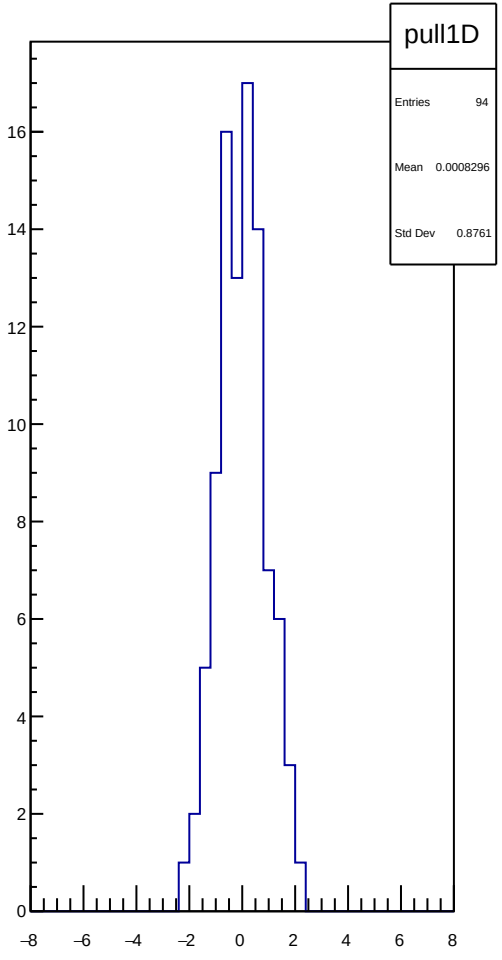

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3368 / 93
p0 0.007713 ± 5.813e−06
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

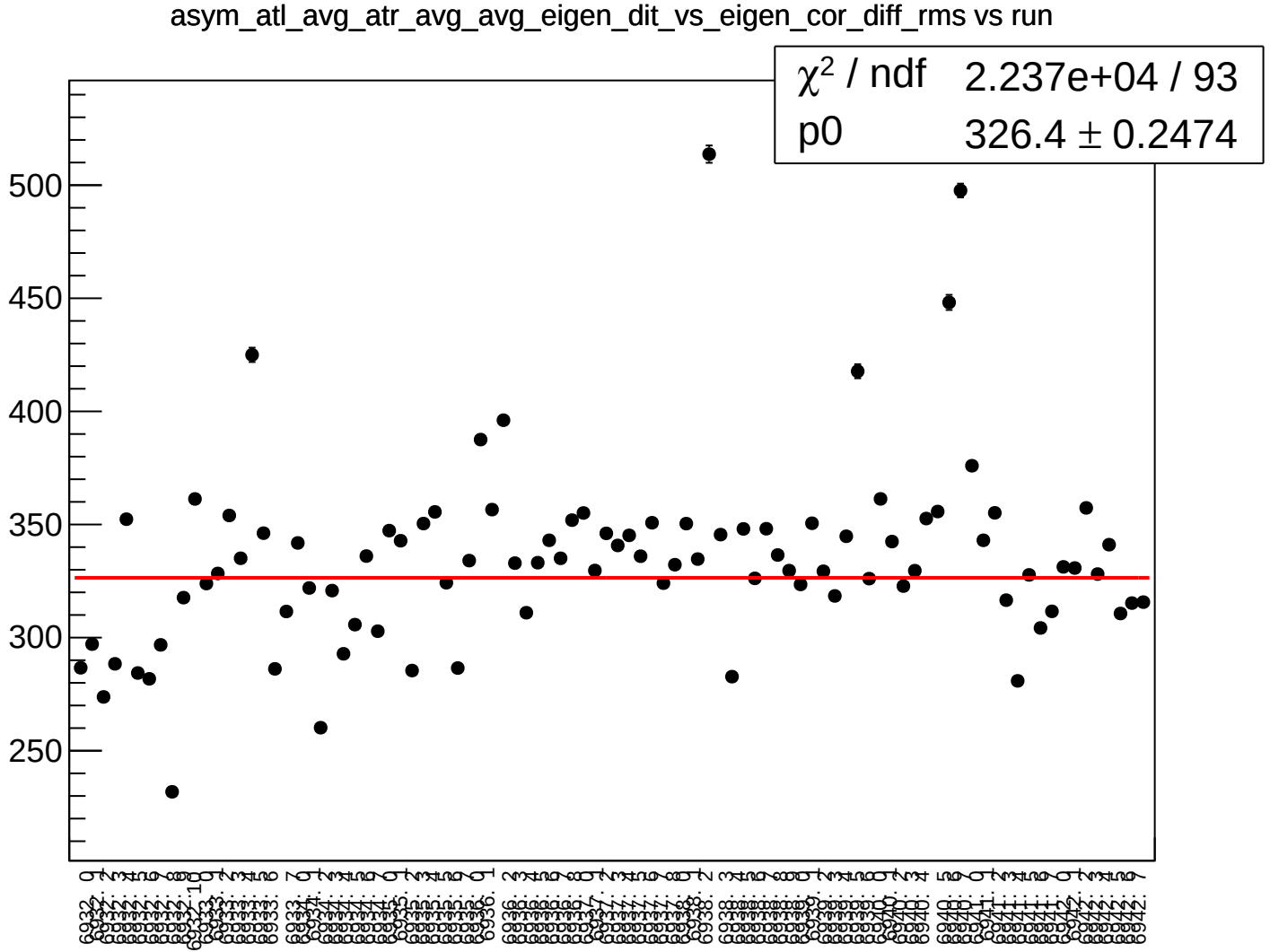

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.16 / 93
p0 0.1405 ± 0.3498
pull
Entries 94
Mean −4440
Std Dev 0

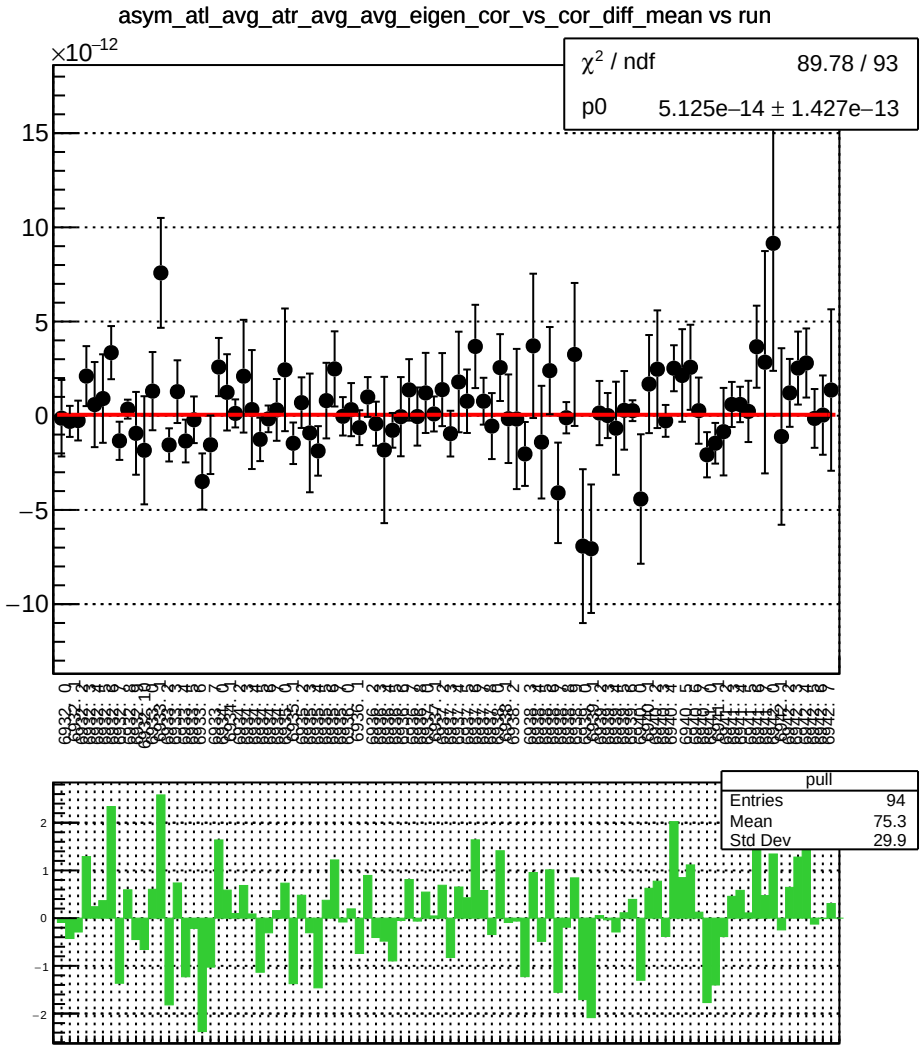

pull1D
Entries 94
Mean 0.0008296
Std Dev 0.8761

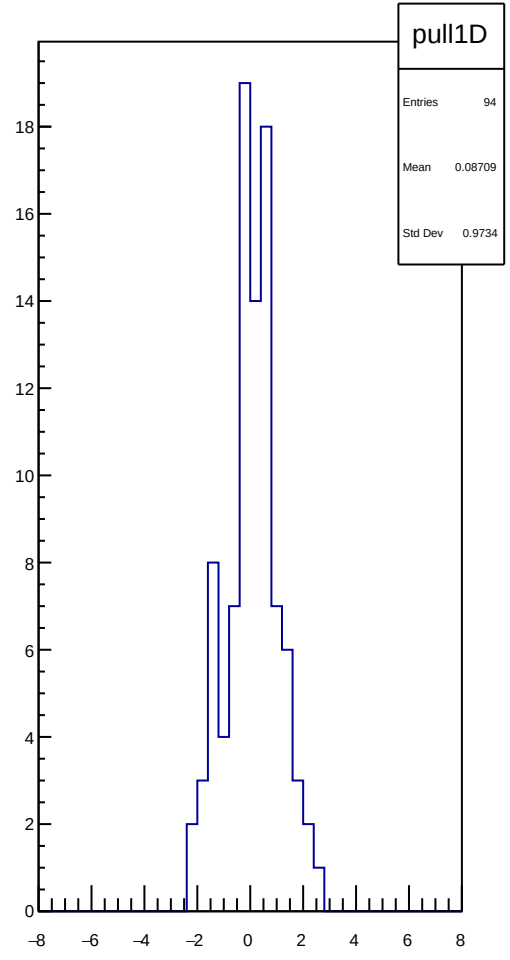

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.237e+04 / 93
p0 326.4 ± 0.2474
500
450
400
350
300
250

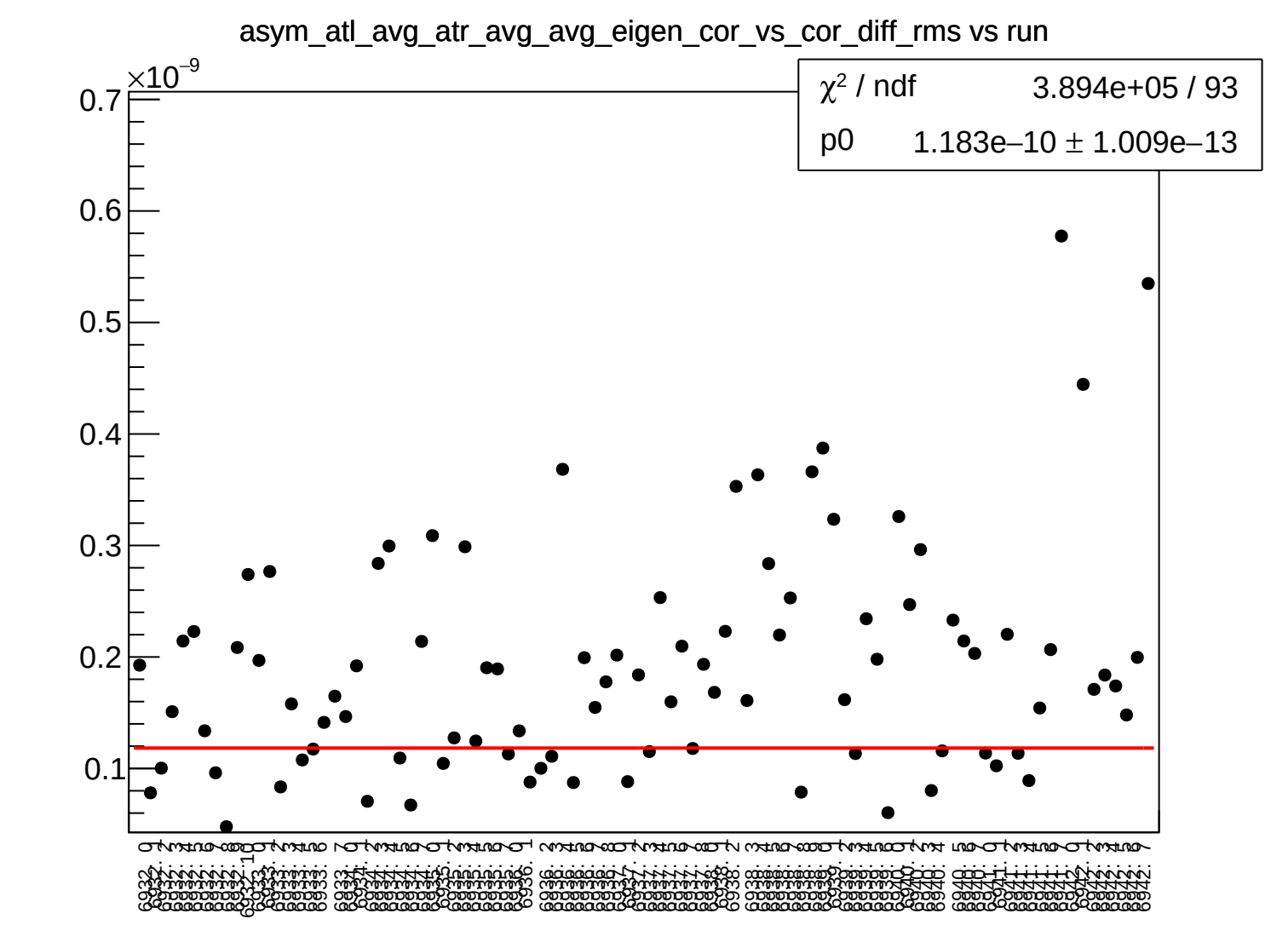

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.16 / 93
p0 0.1405 ± 0.3498
pull
Entries 94
Mean −4440
Std Dev 0

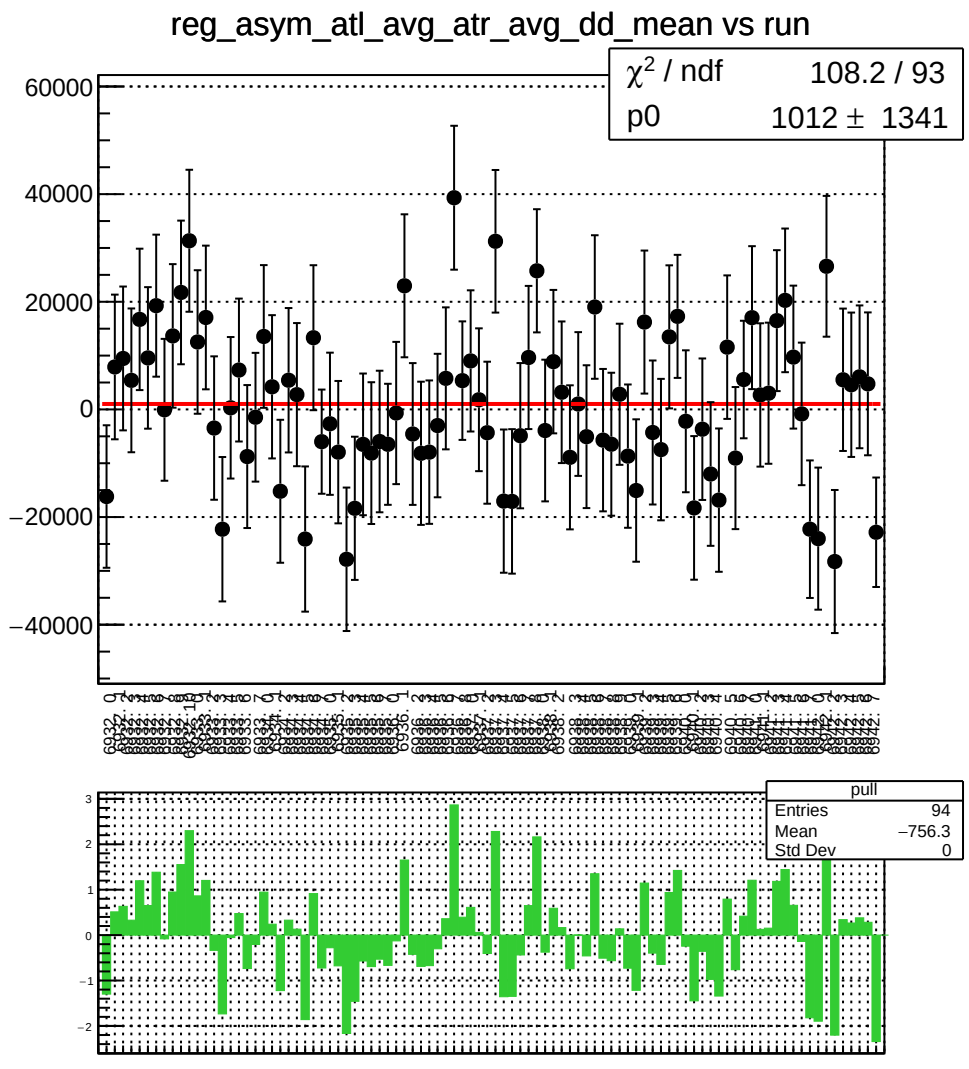

pull1D
Entries 94
Mean 0.0008296
Std Dev 0.8761

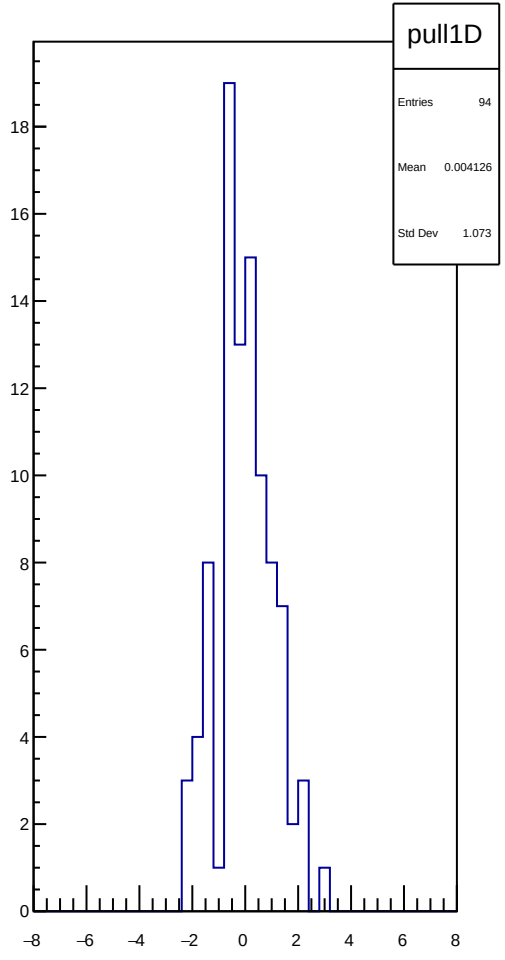

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.237e+04 / 93
p0 326.4 ± 0.2474
500
450
400
350
300
250

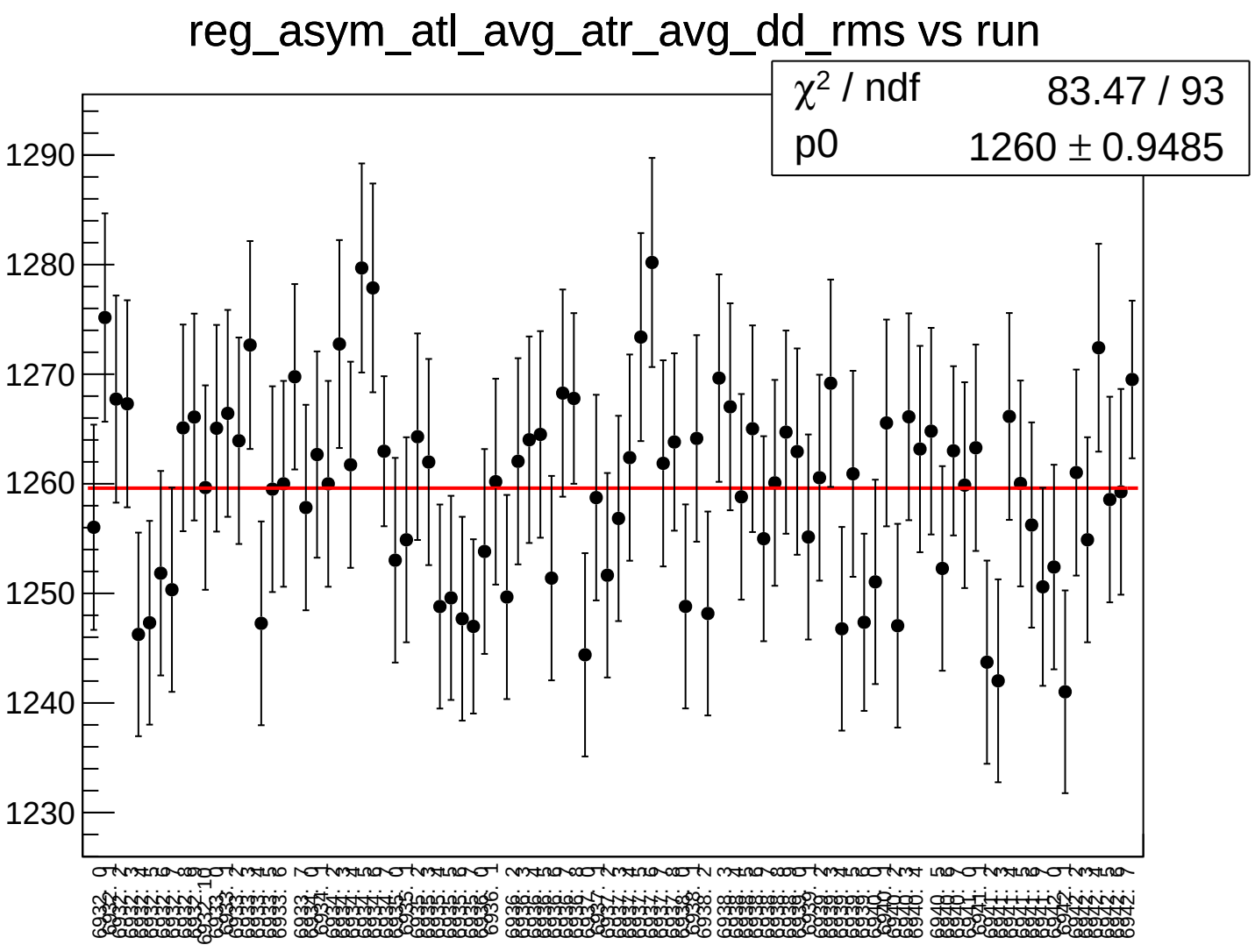

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.78 / 93
p0 5.125e−14 ± 1.427e−13
pull
Entries 94
Mean 75.3
Std Dev 29.9

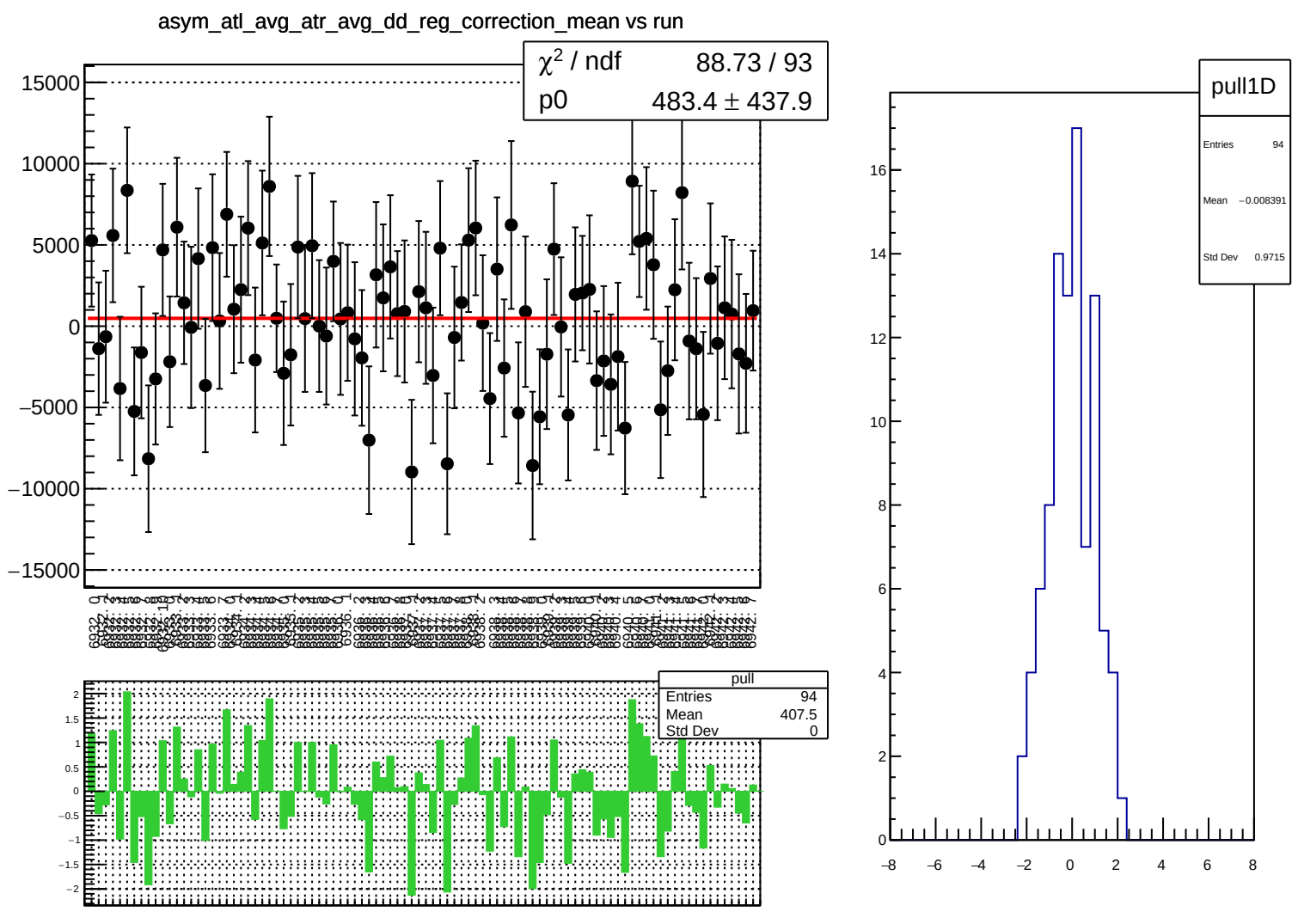

pull1D
Entries 94
Mean 0.08709
Std Dev 0.9734

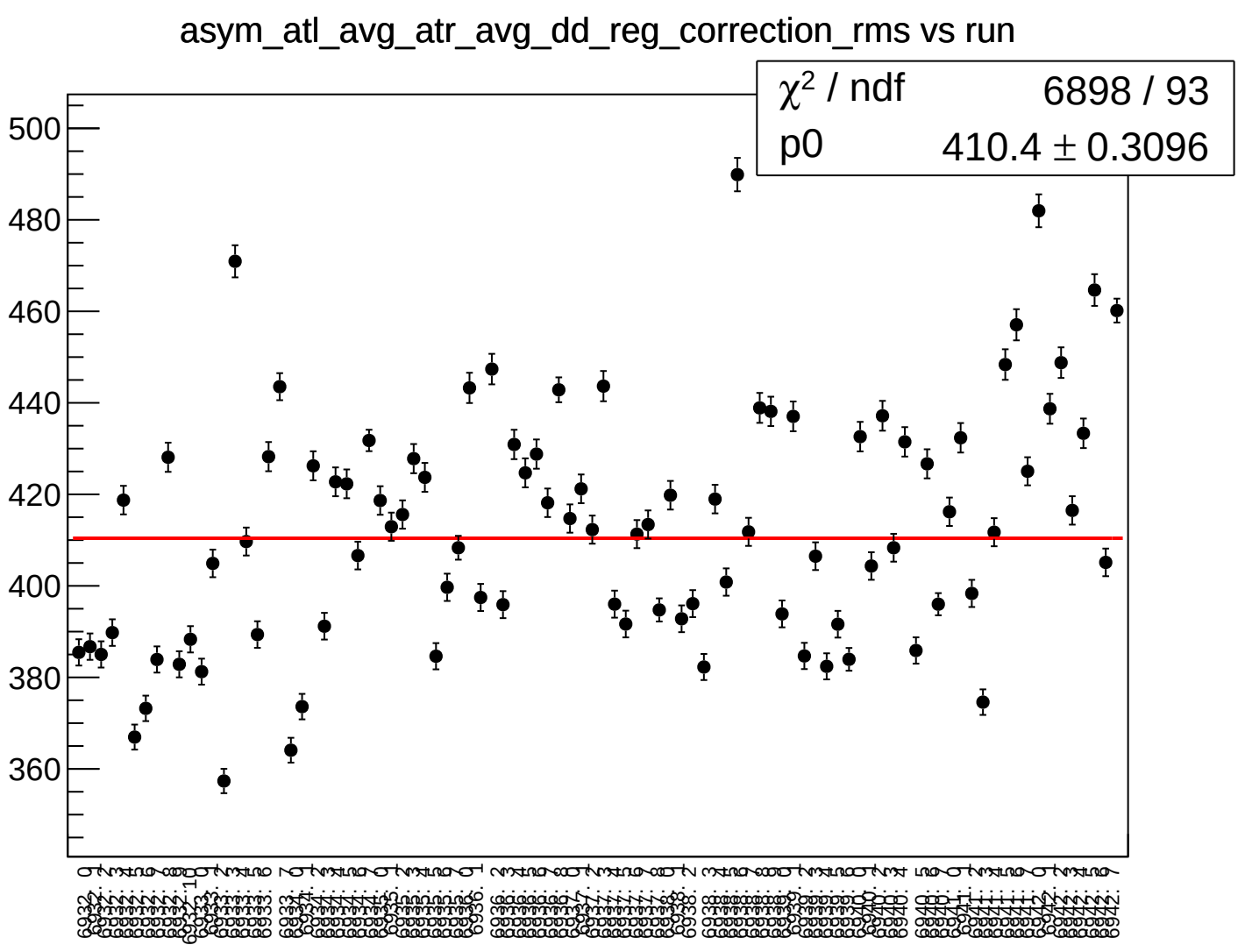

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 3.894e+05 / 93
p0 1.183e−10 ± 1.009e−13

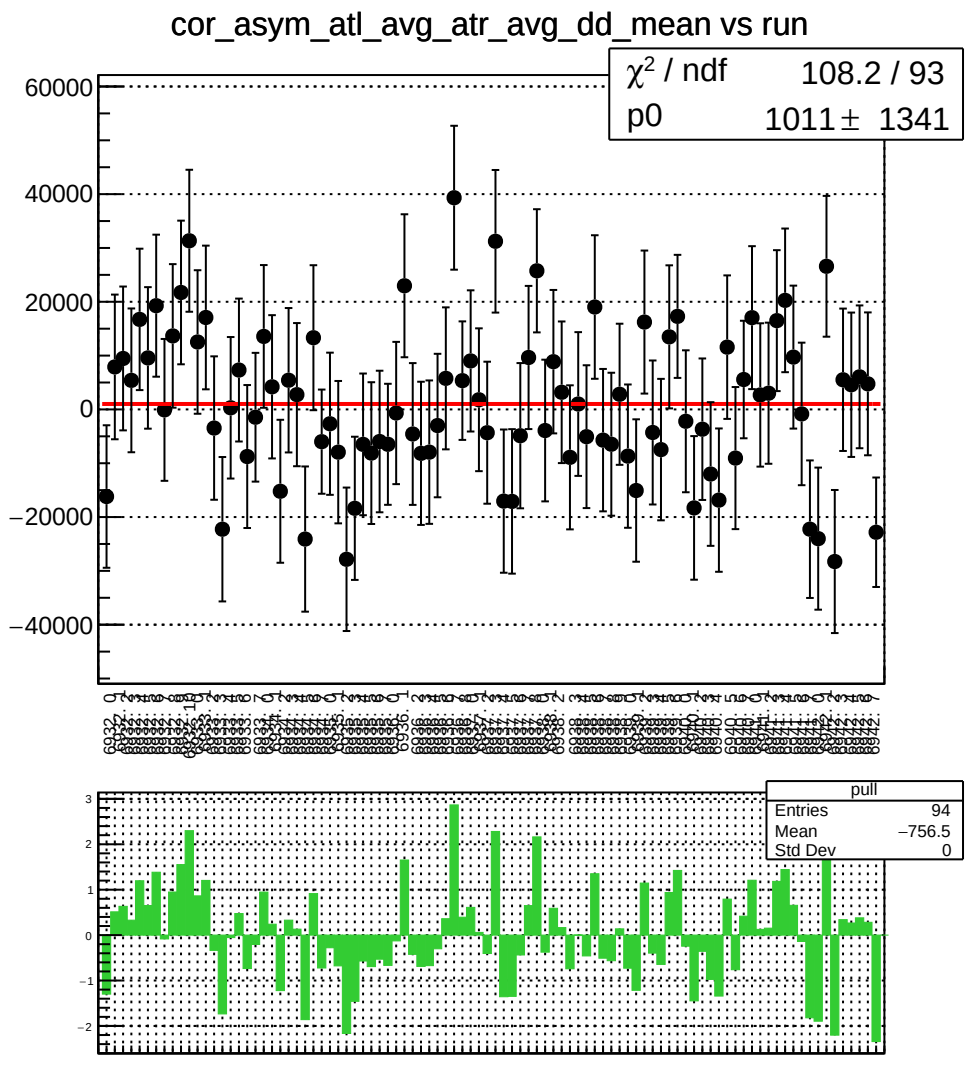

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108.2 / 93
p0 1012 ± 1341
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −756.3
Std Dev 0
3
2
1
0
−1
−2

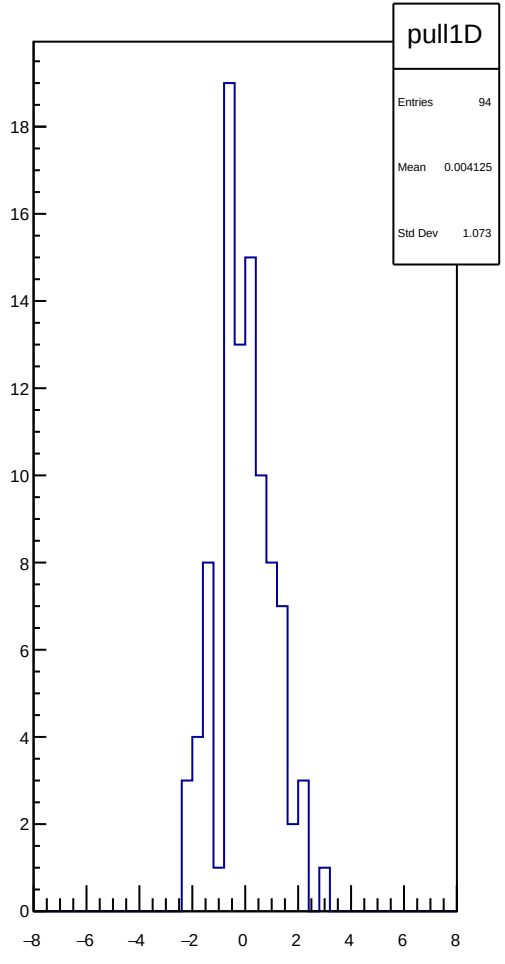

pull1D
Entries 94
Mean 0.004126
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

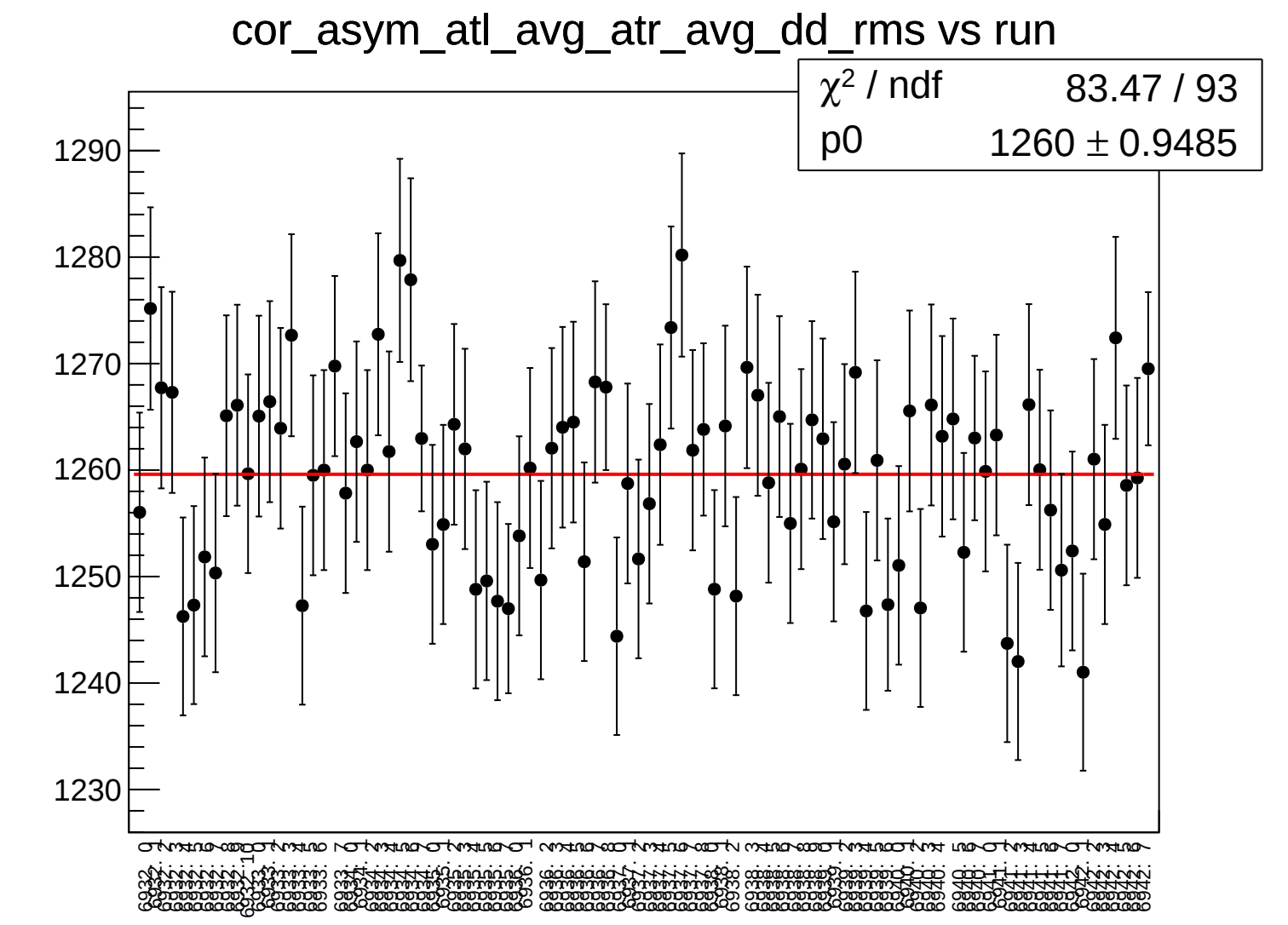

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

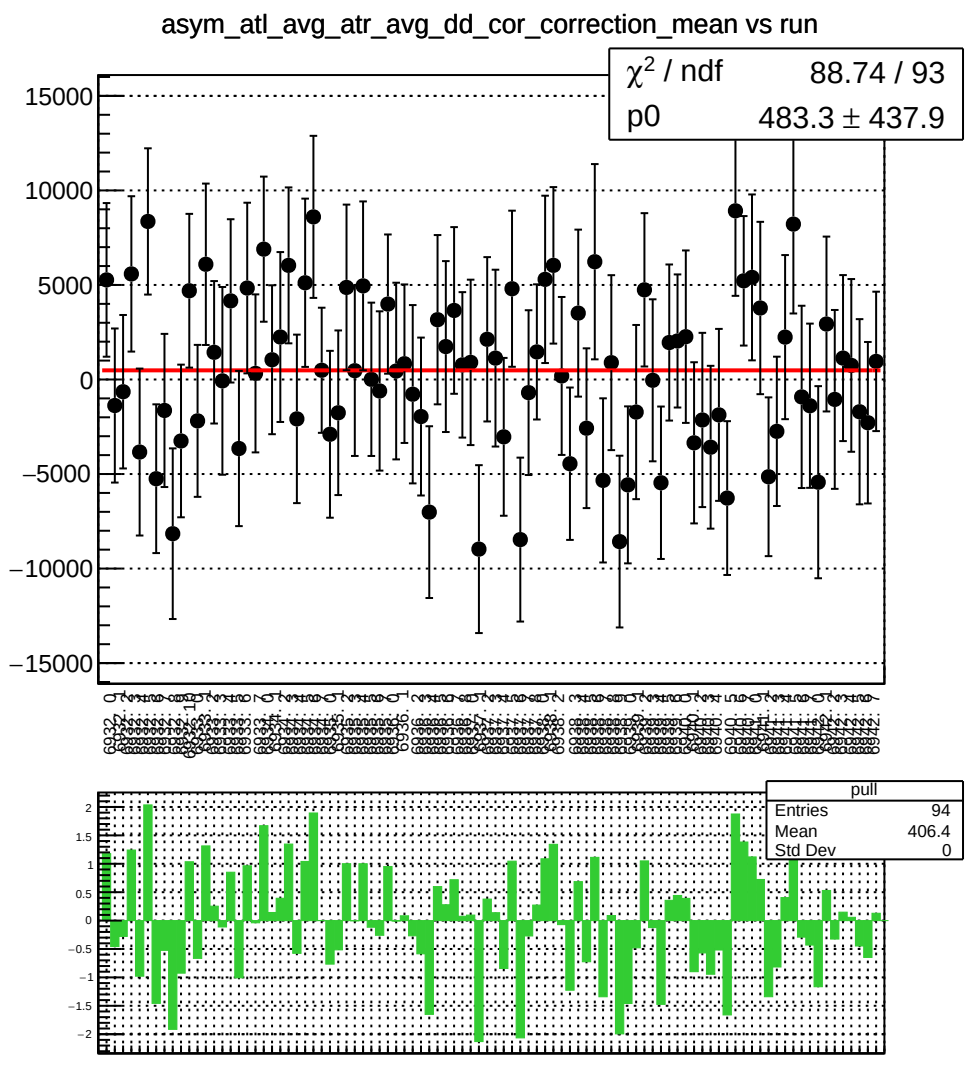

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 88.73 / 93
p0 483.4 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 407.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008391
Std Dev 0.9715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

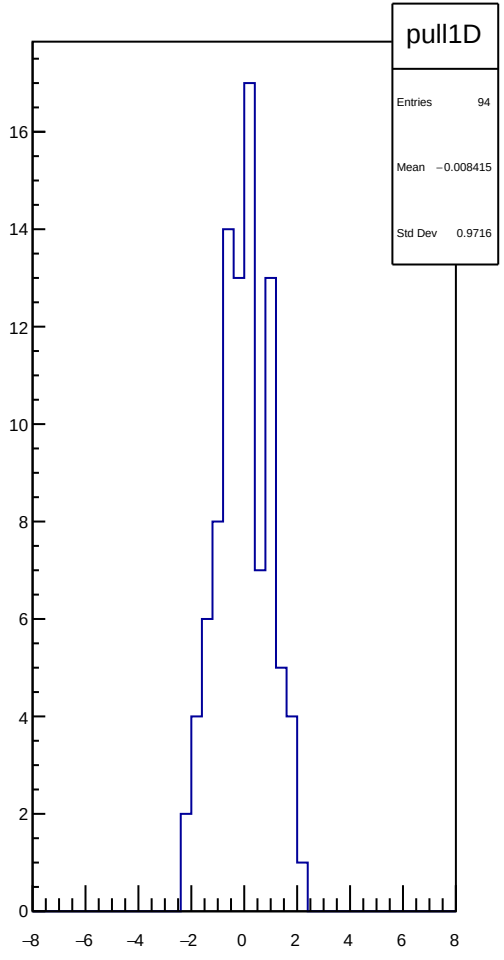

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 6898 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

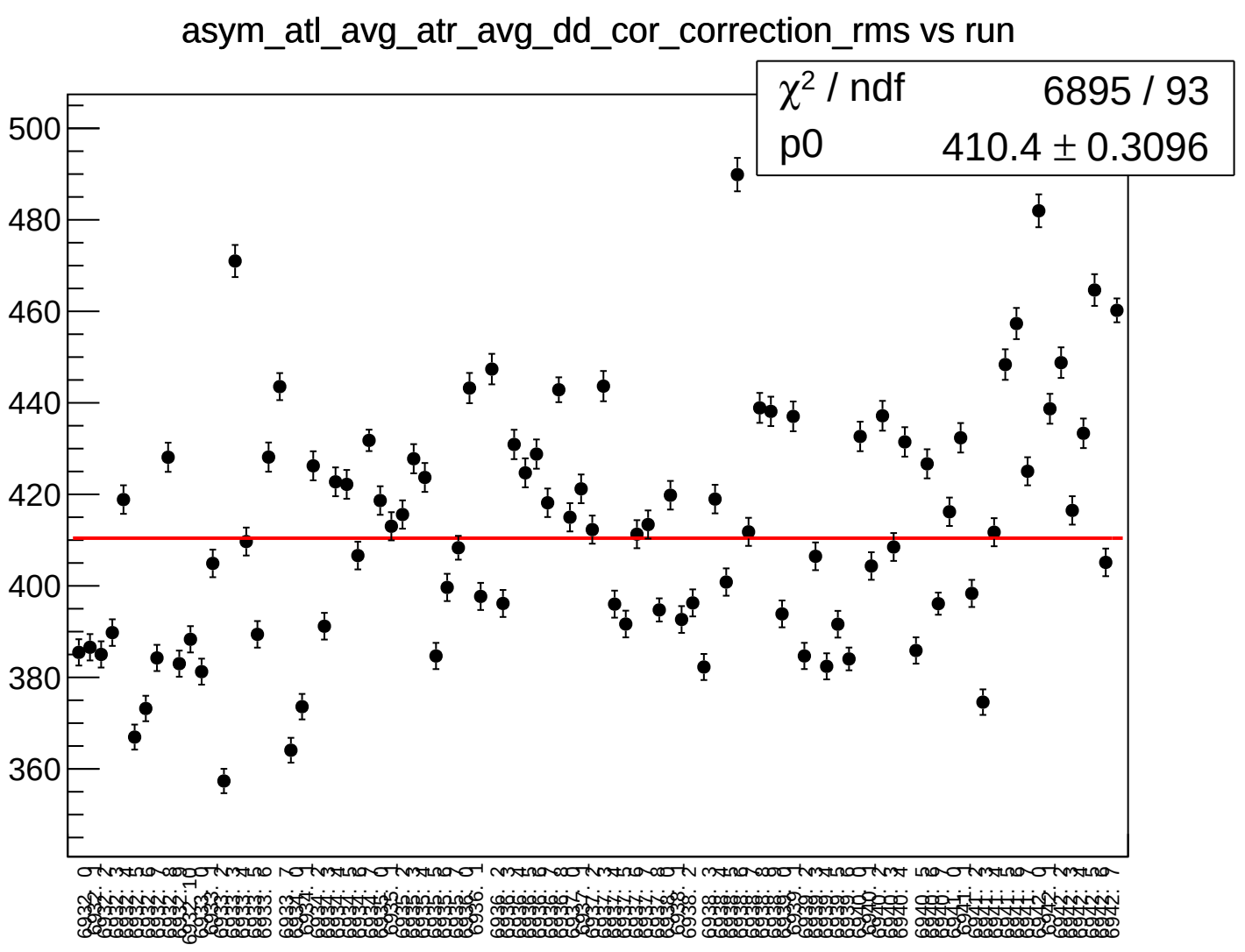

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108.2 / 93
p0 1011 ± 1341
pull
Entries 94
Mean −756.5
Std Dev 0

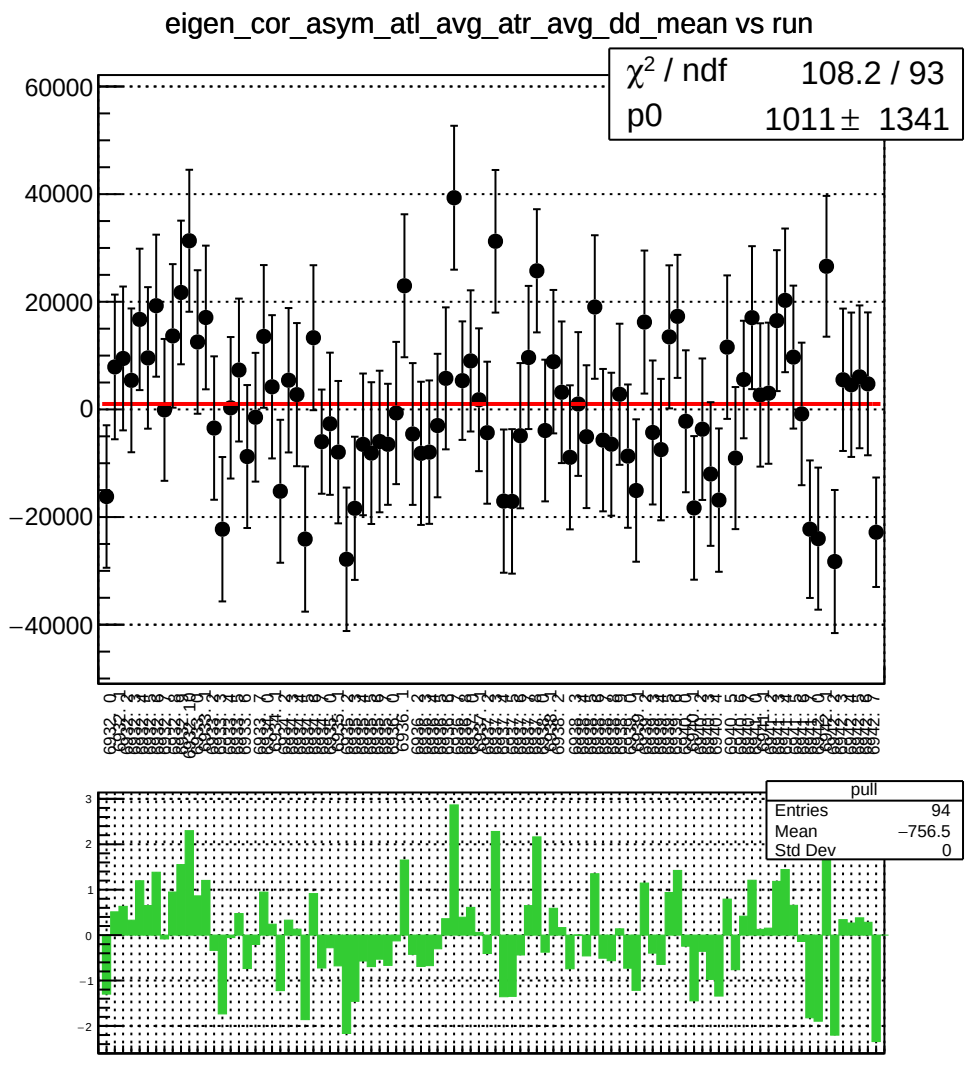

pull1D
Entries 94
Mean 0.004125
Std Dev 1.073

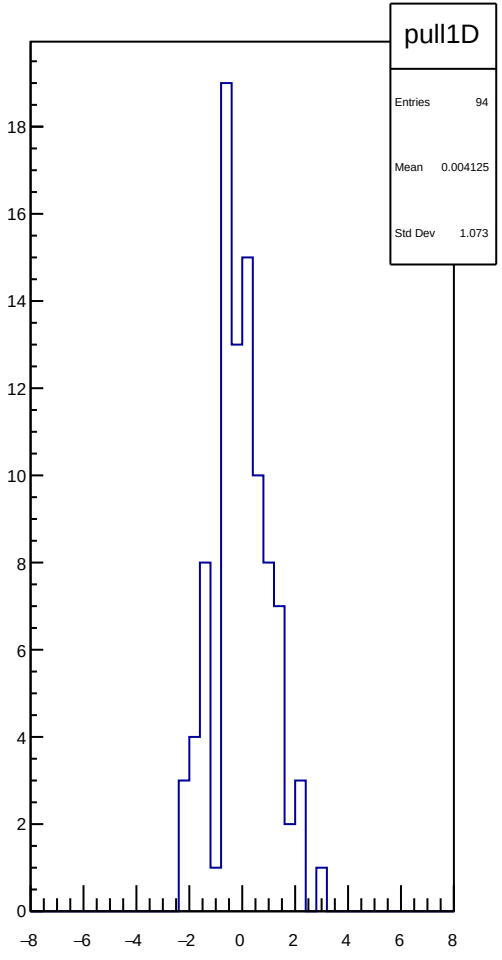

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

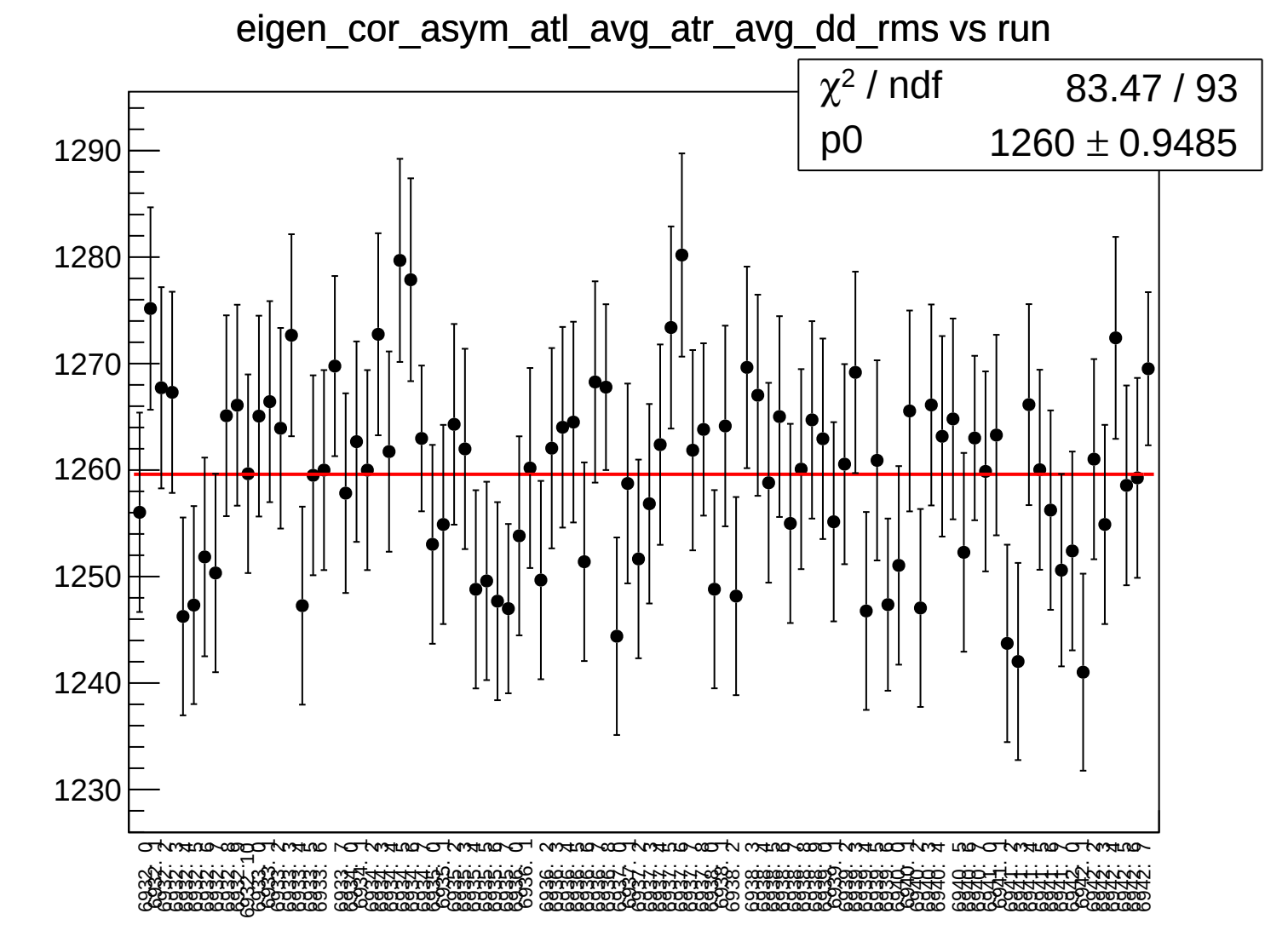

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 483.3 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 406.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

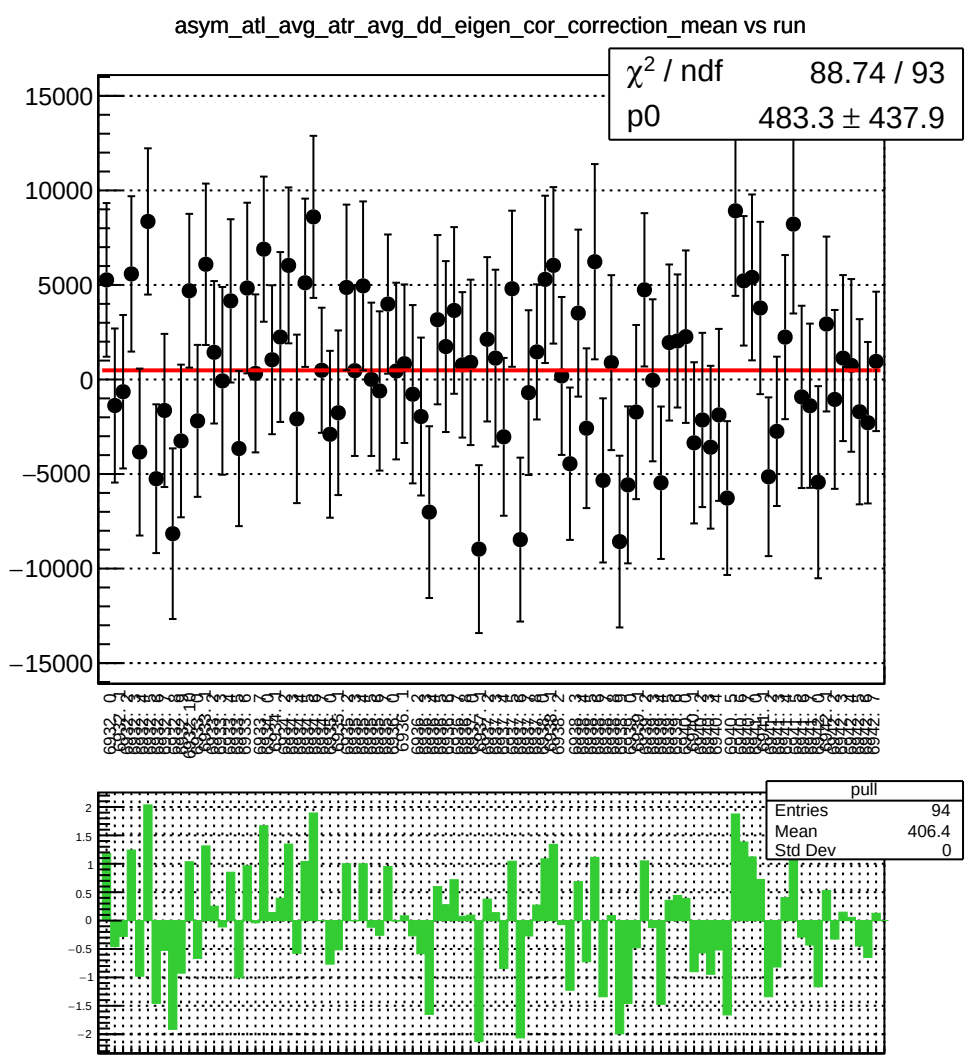

pull1D
Entries 94
Mean −0.008415
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

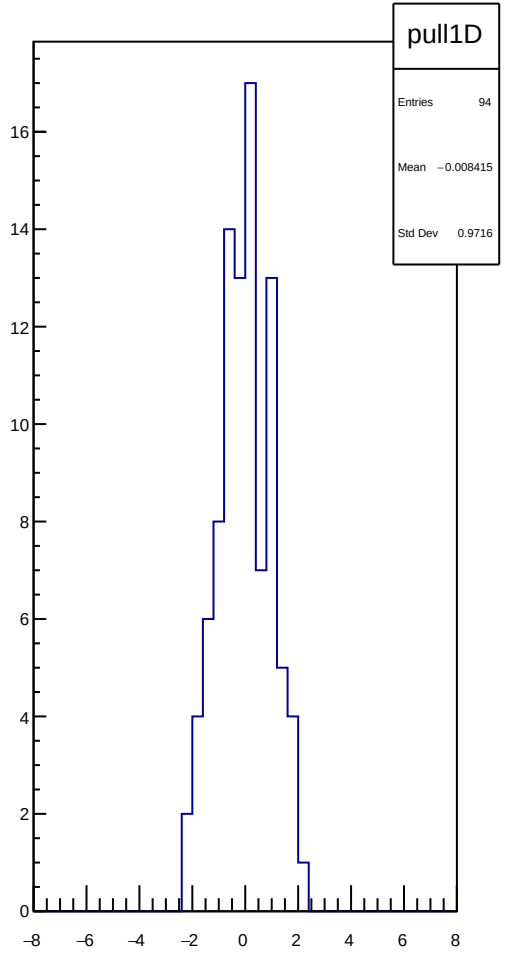

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 6895 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

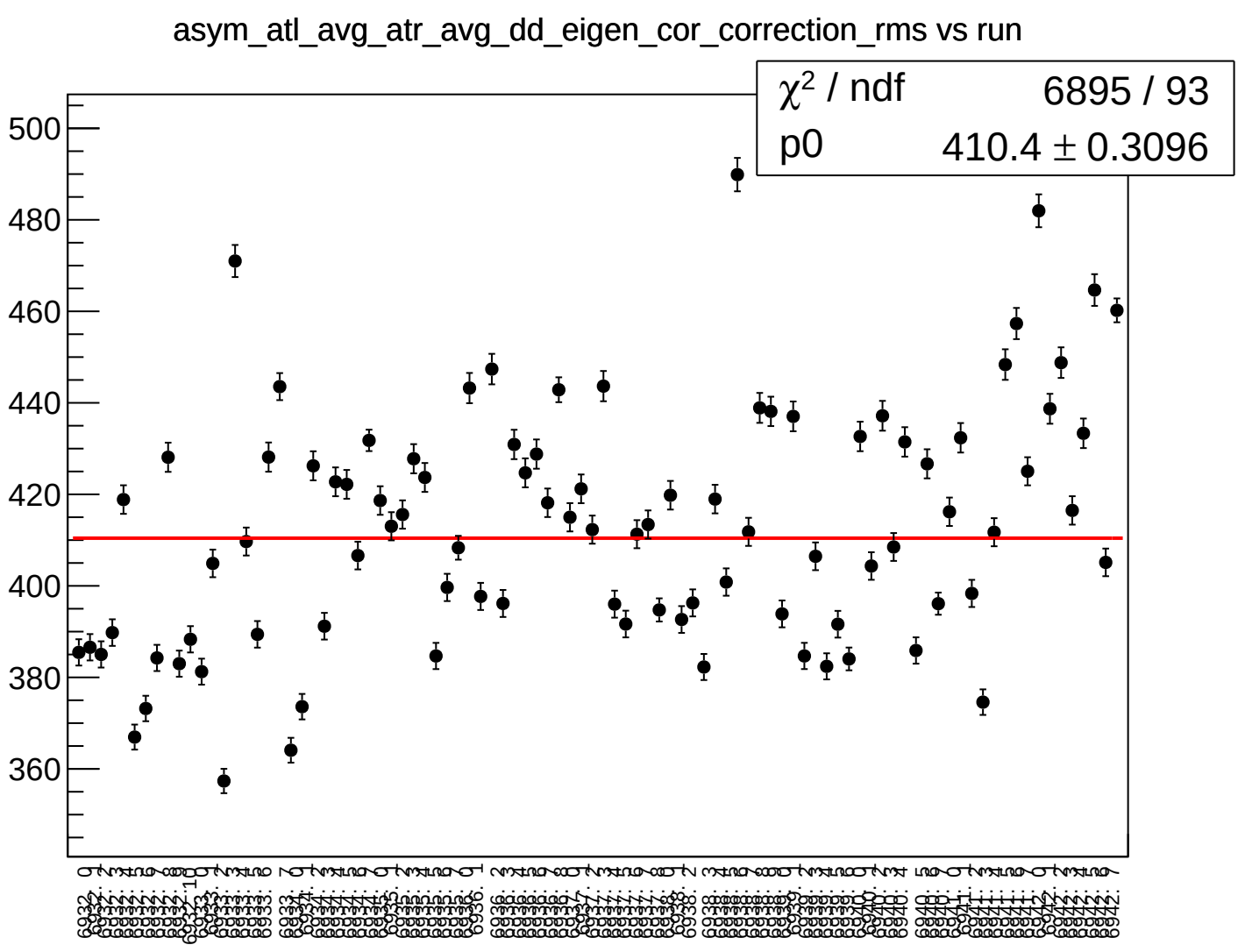

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108.2 / 93
p0 1011 ± 1341
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −756.5
Std Dev 0
3
2
1
0
−1
−2

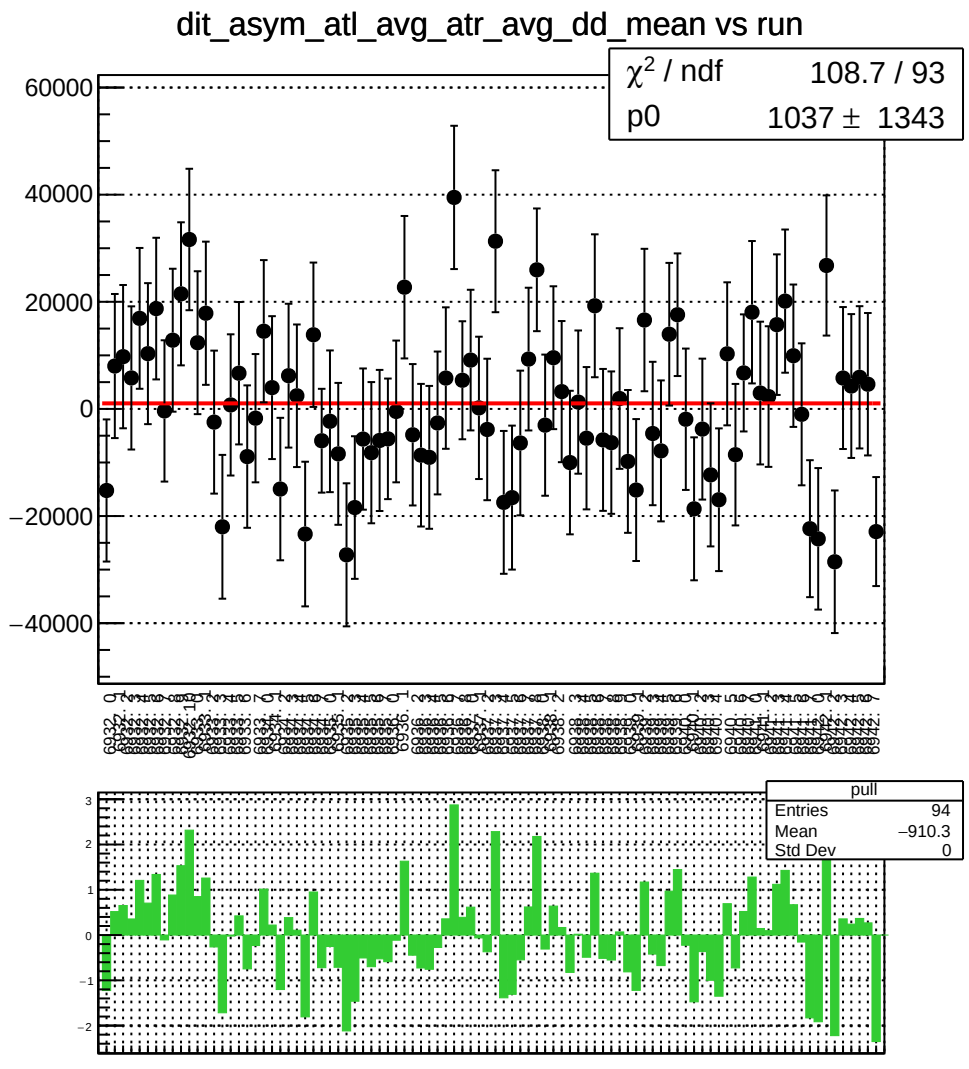

pull1D
Entries 94
Mean 0.004125
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

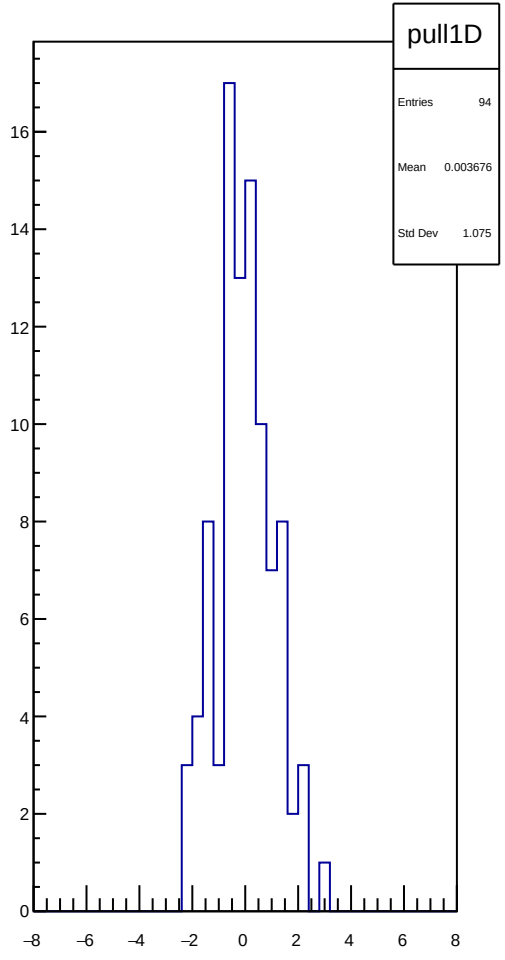

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

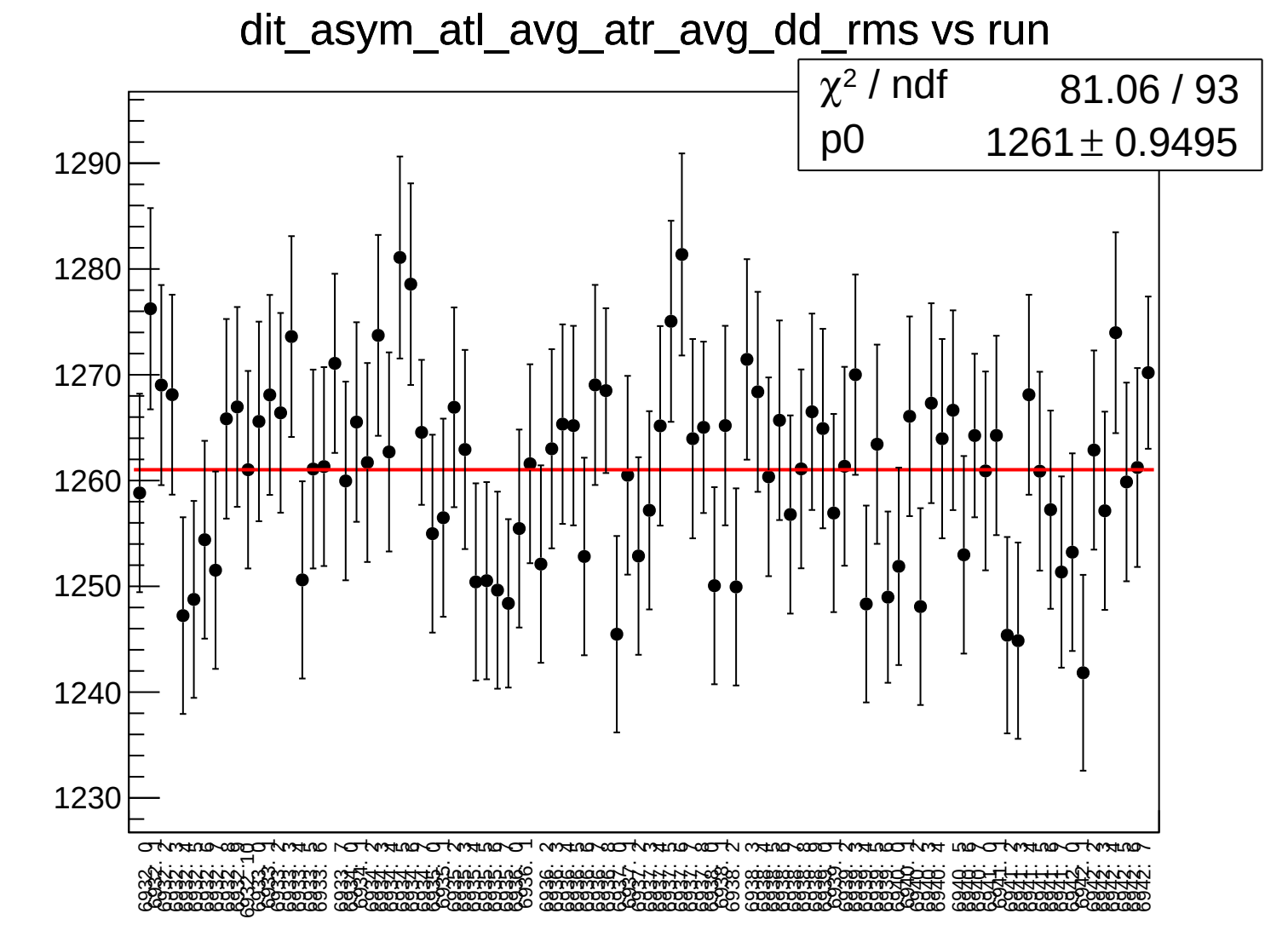

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 483.3 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 406.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

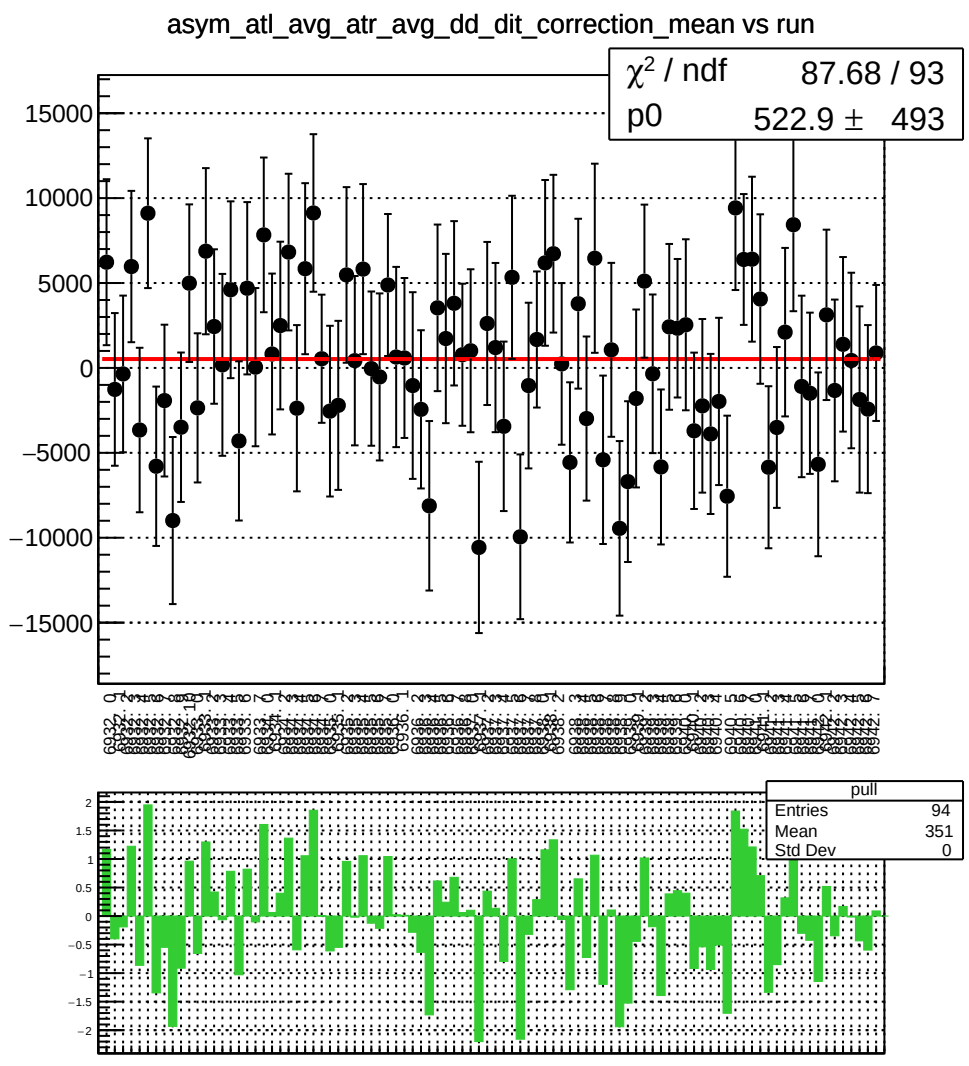

pull1D
Entries 94
Mean −0.008415
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

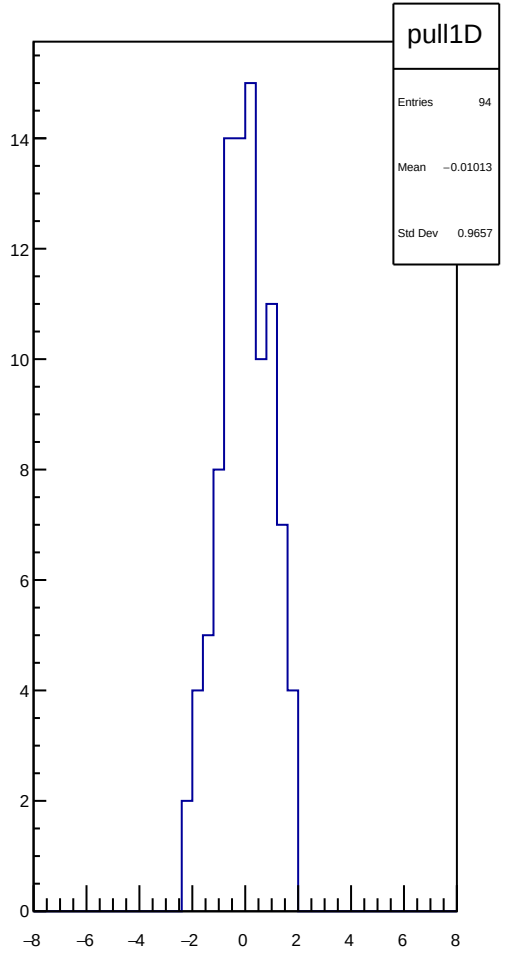

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6895 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

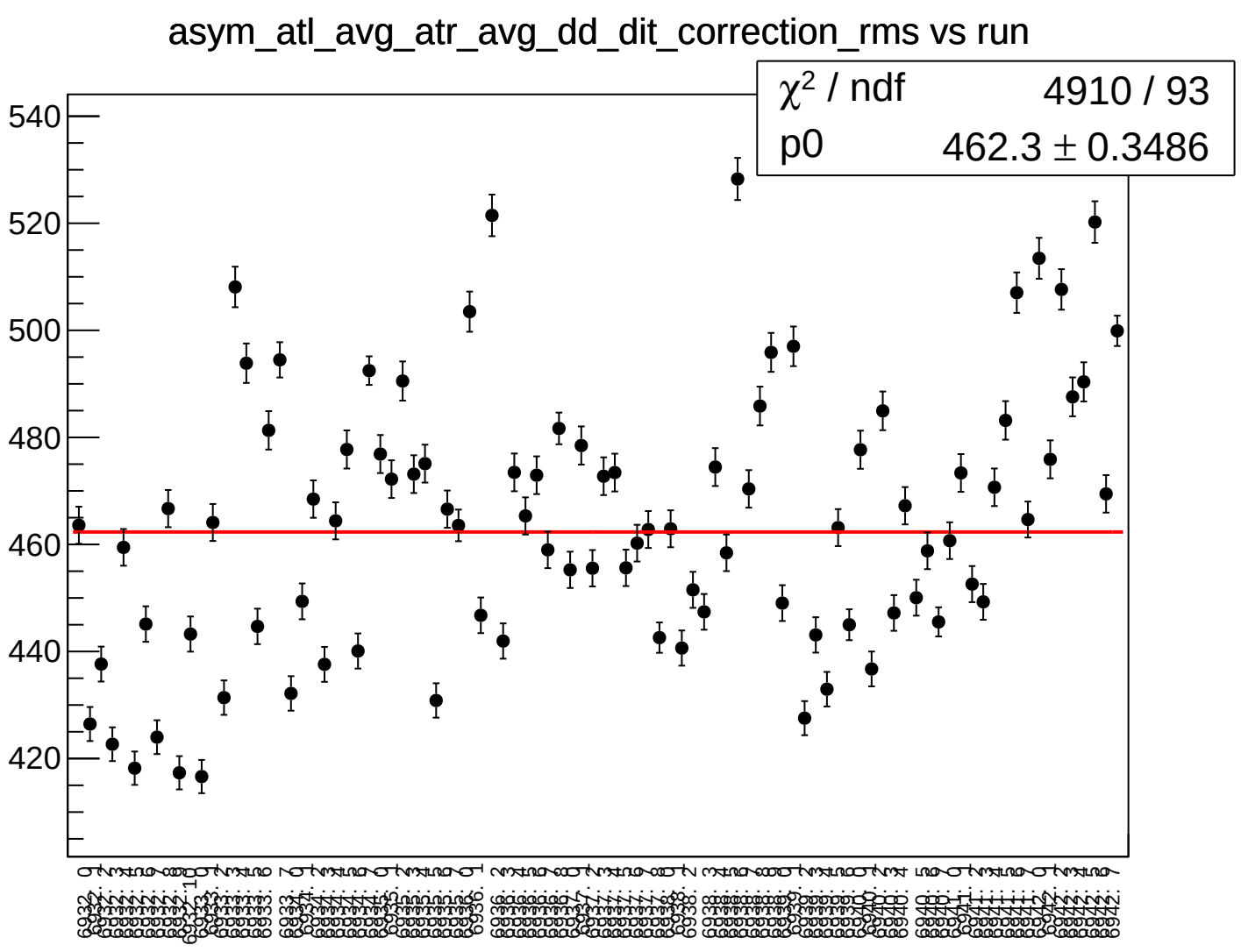

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108.7 / 93
p0 1037 ± 1343
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −910.3
Std Dev 0
3
2
1
0
−1
−2

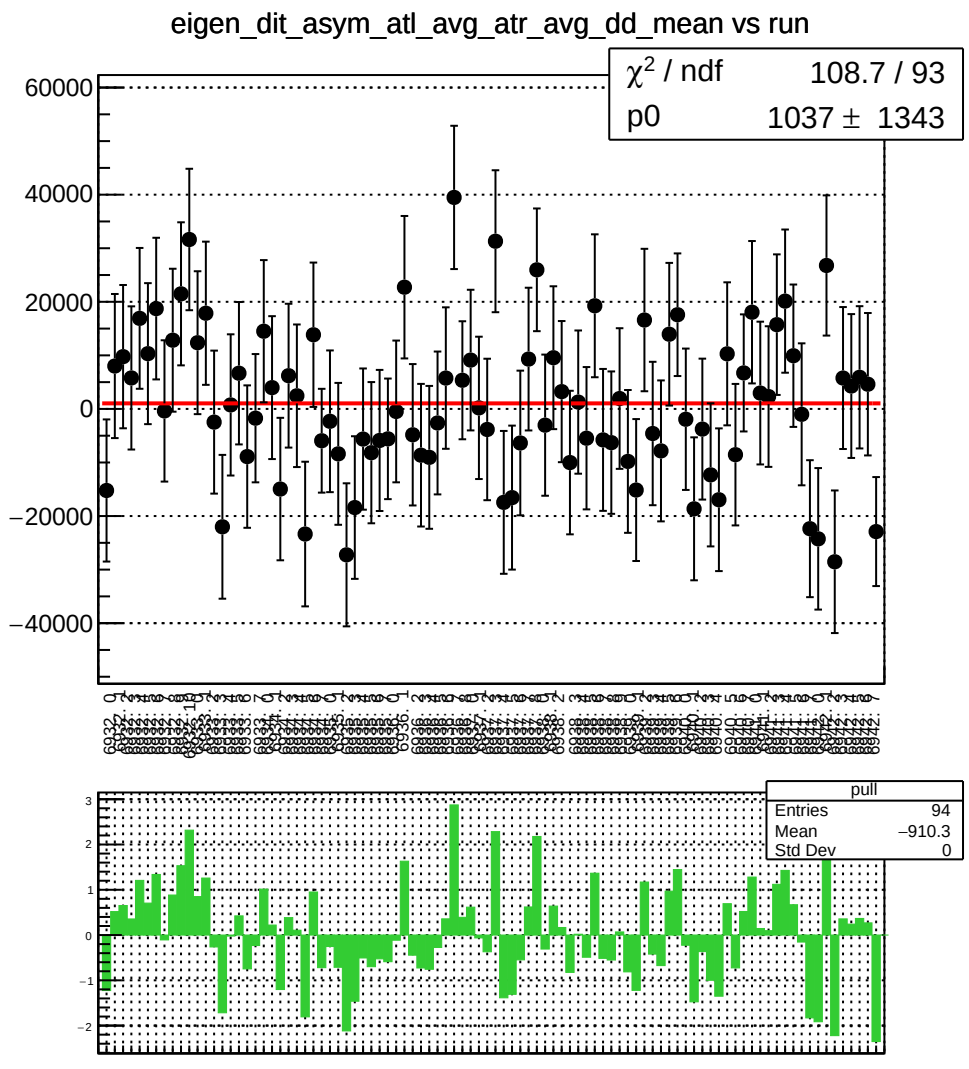

pull1D
Entries 94
Mean 0.003676
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

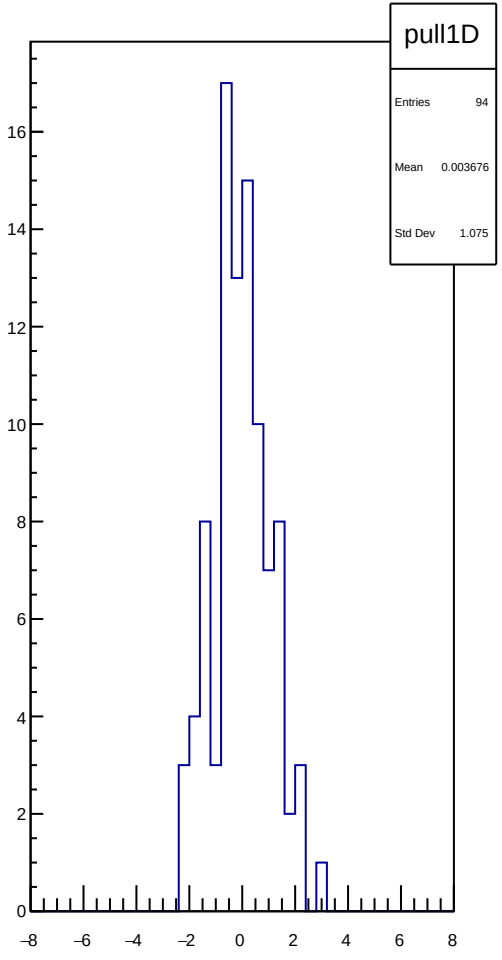

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 81.06 / 93
p0 1261 ± 0.9495
1290
1280
1270
1260
1250
1240
1230

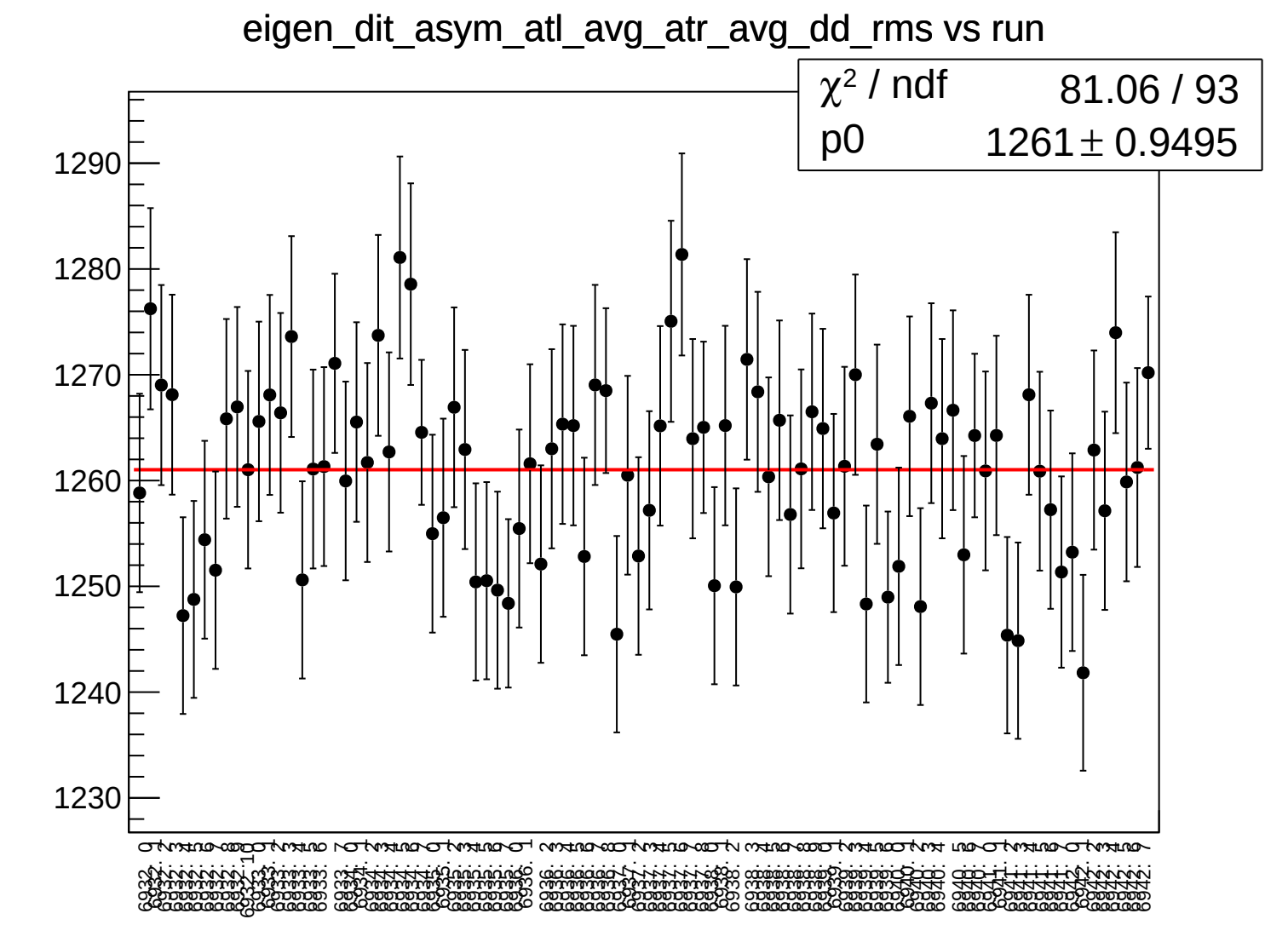

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 87.68 / 93
p0 522.9 ± 493
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 351
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

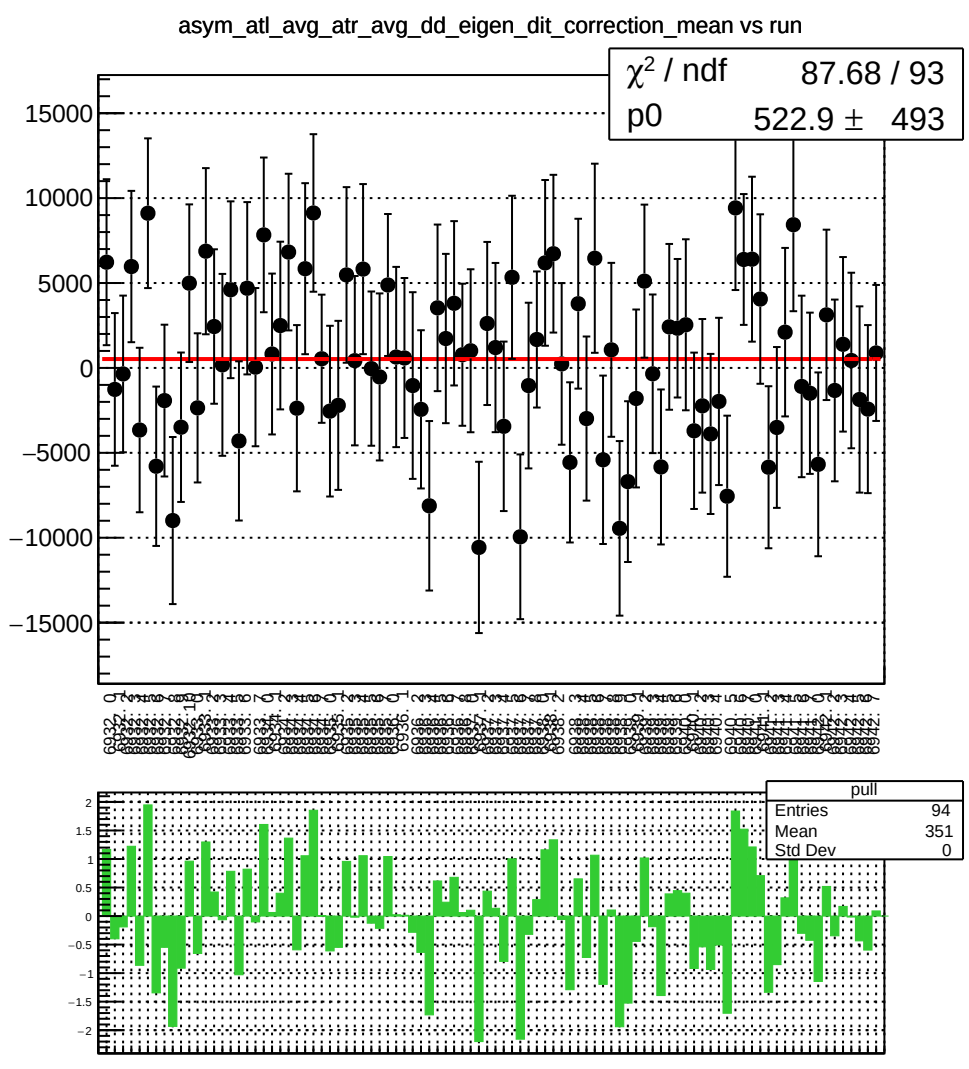

pull1D
Entries 94
Mean −0.01013
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

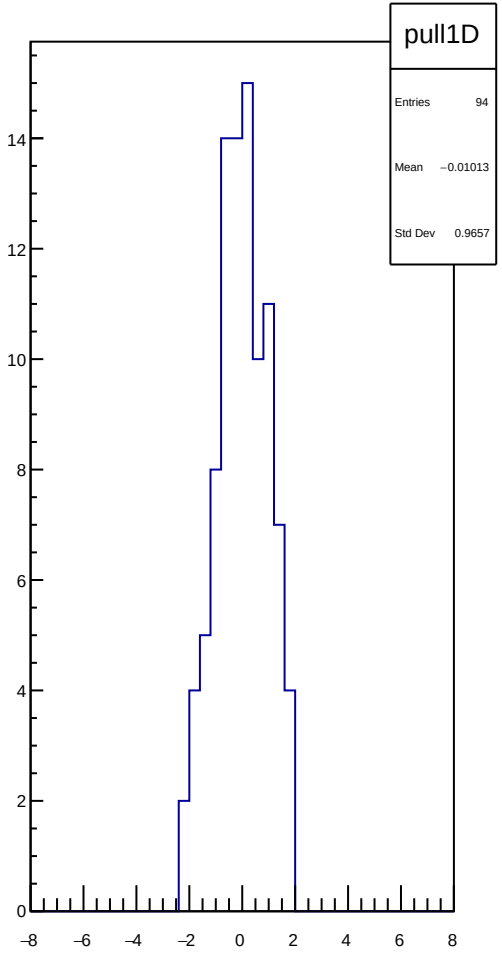

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4910 / 93
p0 462.3 ± 0.3486
540
520
500
480
460
440
420

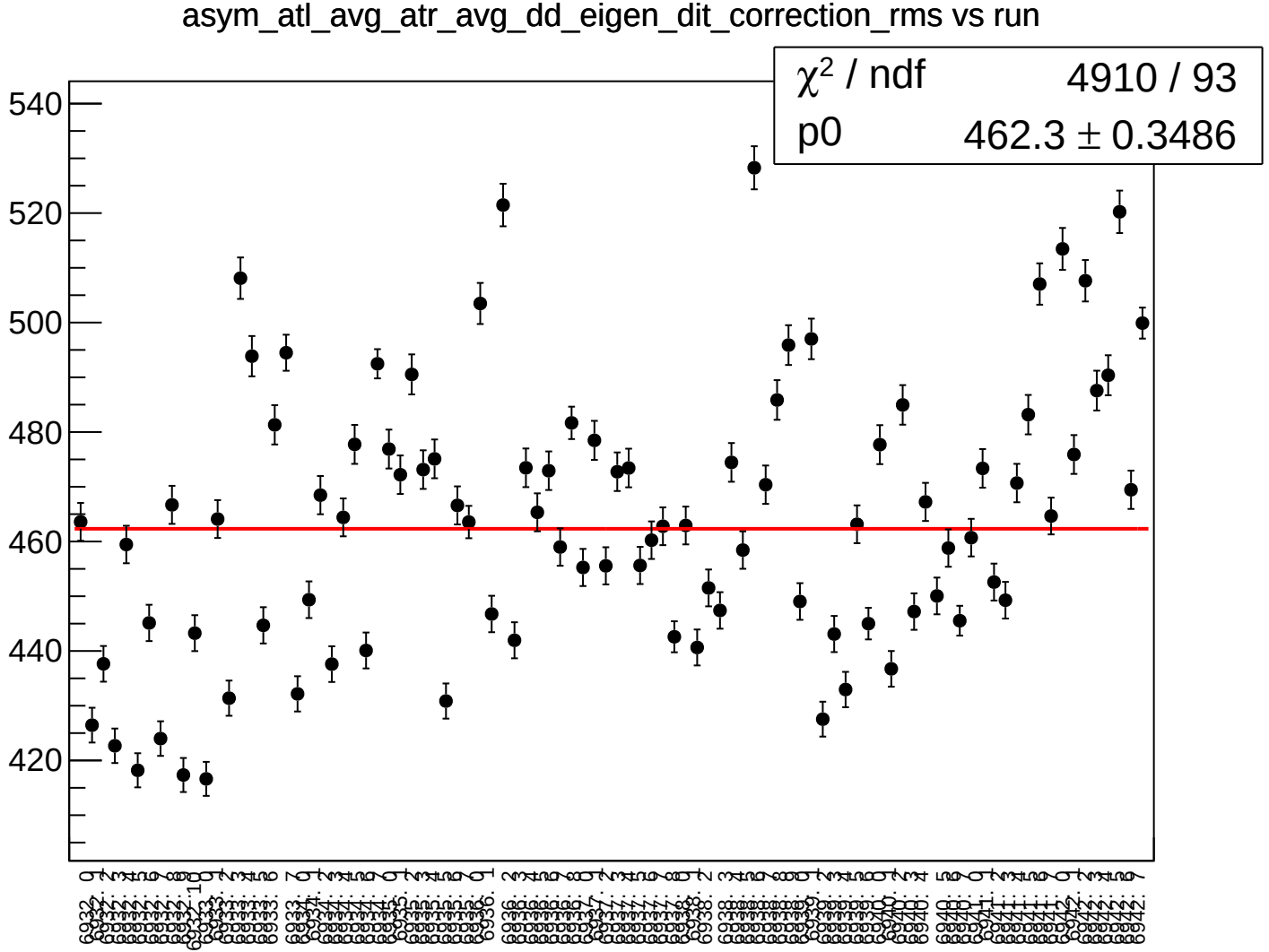

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 108.7 / 93
p0 1037 ± 1343
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −910.3
Std Dev 0
3
2
1
0
−1
−2

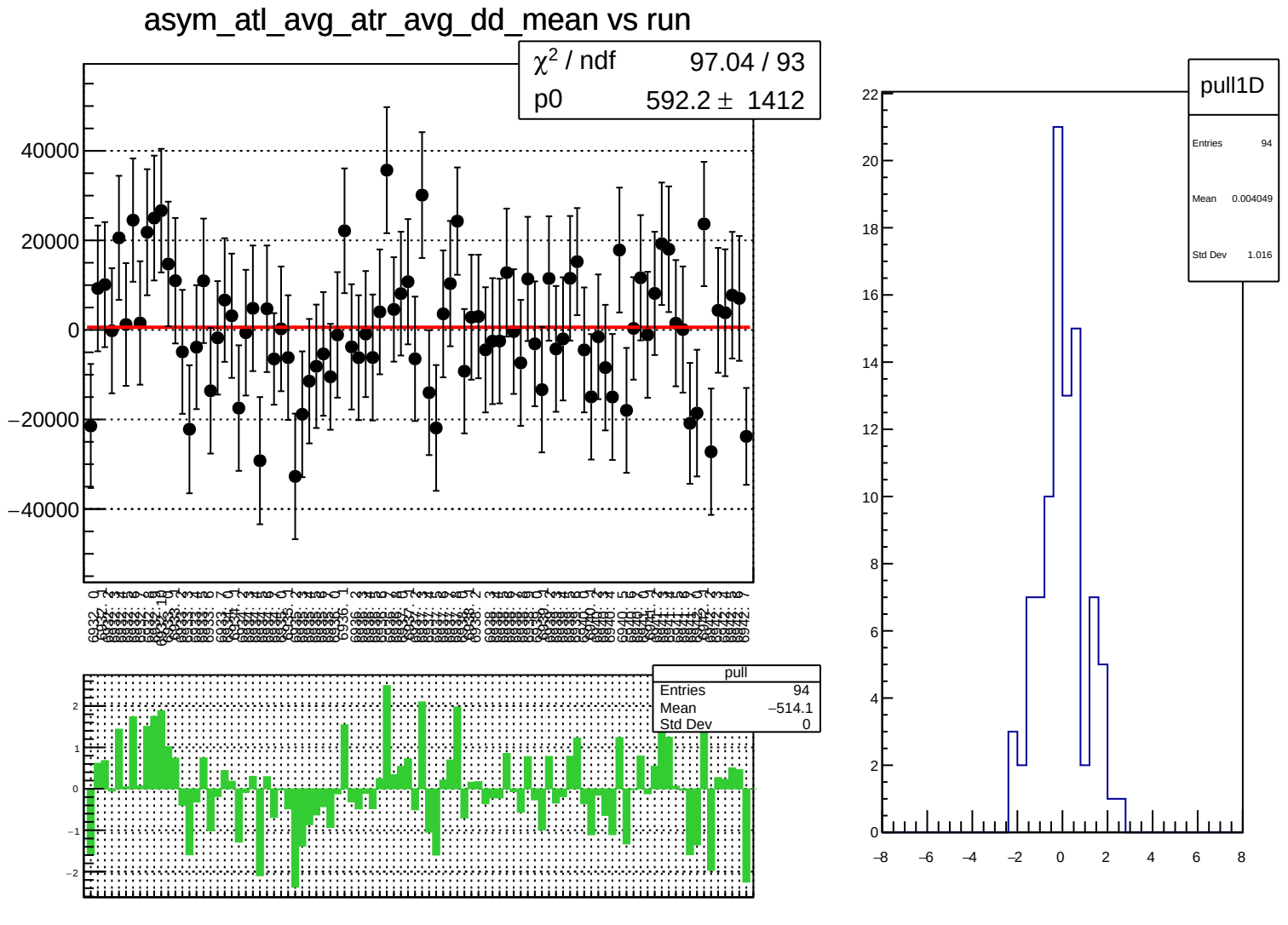

pull1D
Entries 94
Mean 0.003676
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

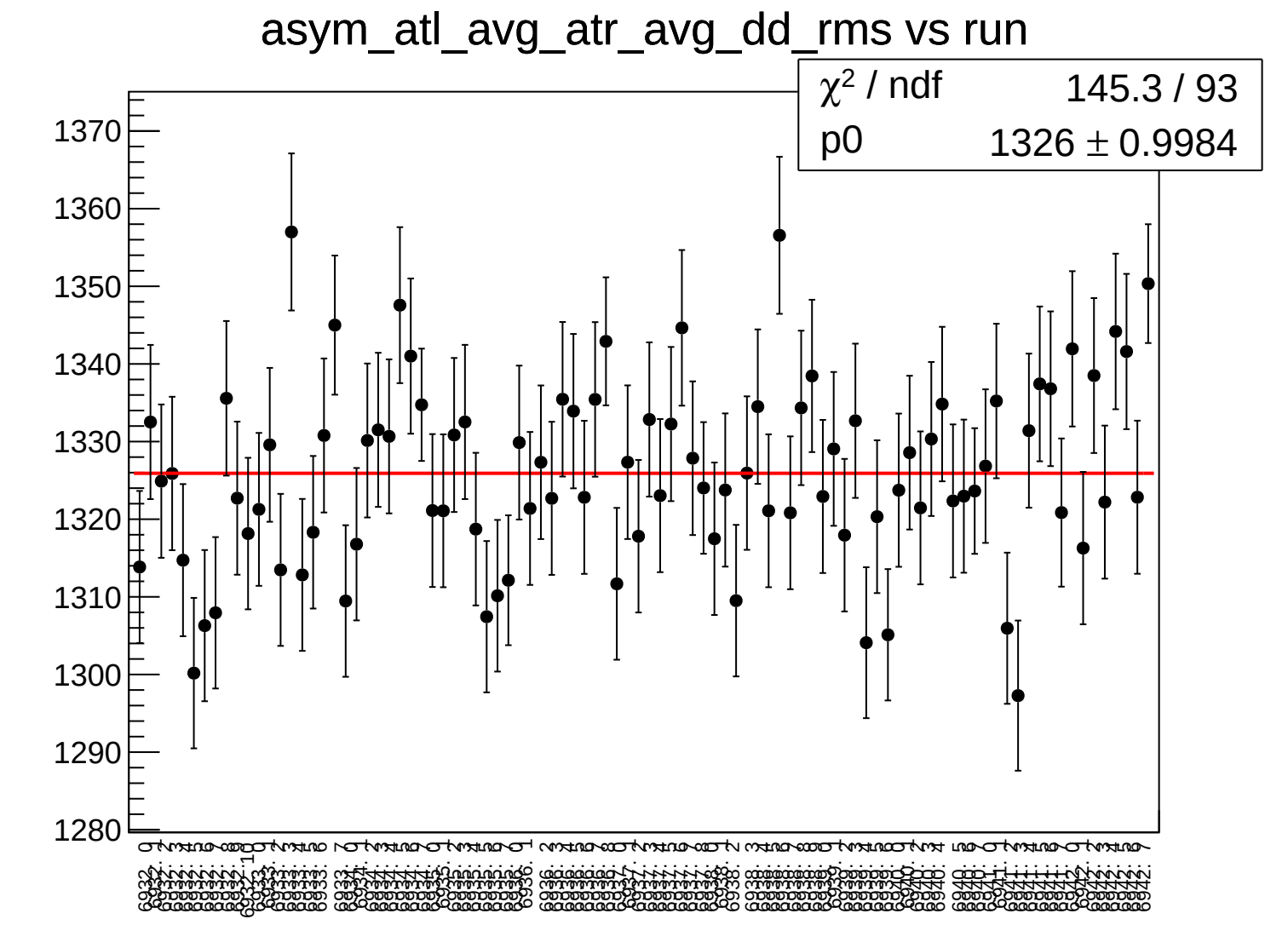

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 81.06 / 93
p0 1261 ± 0.9495
1290
1280
1270
1260
1250
1240
1230

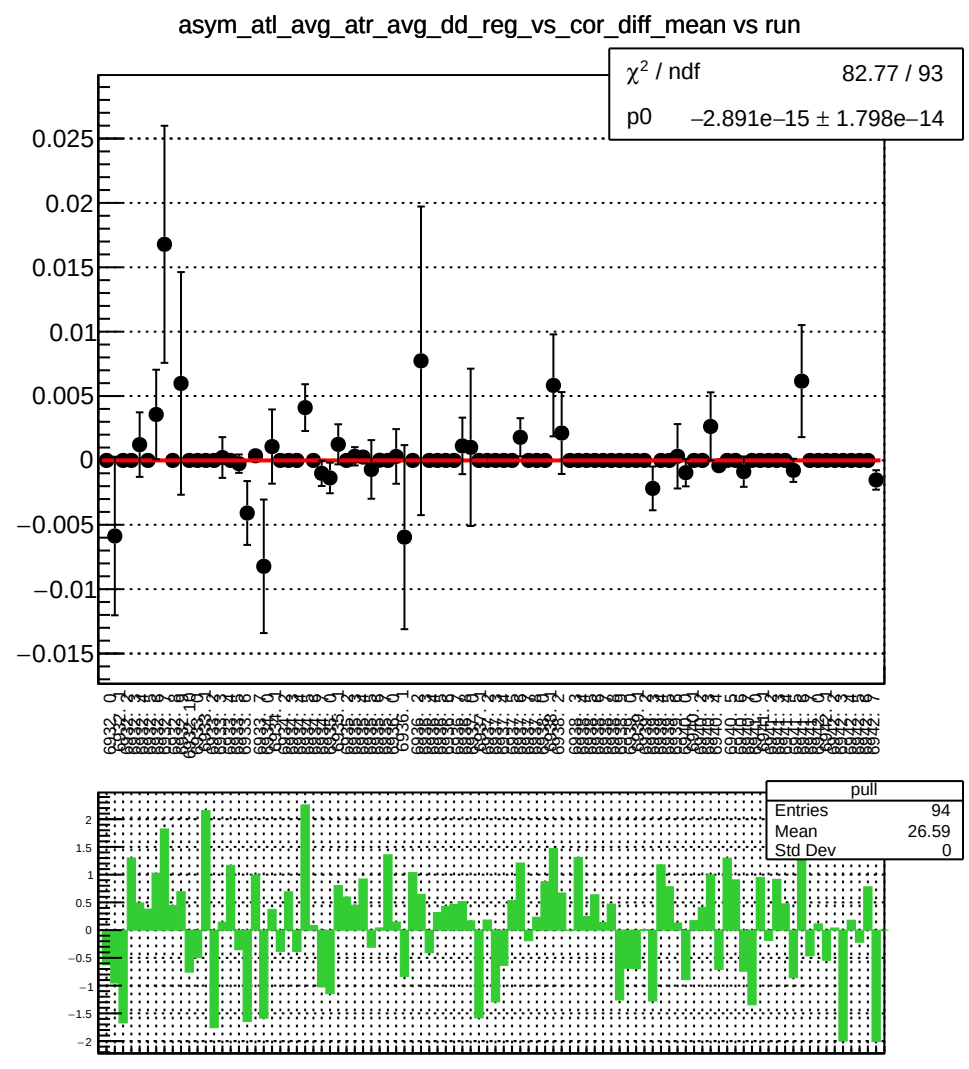

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.68 / 93
p0 522.9 ± 493
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 351
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

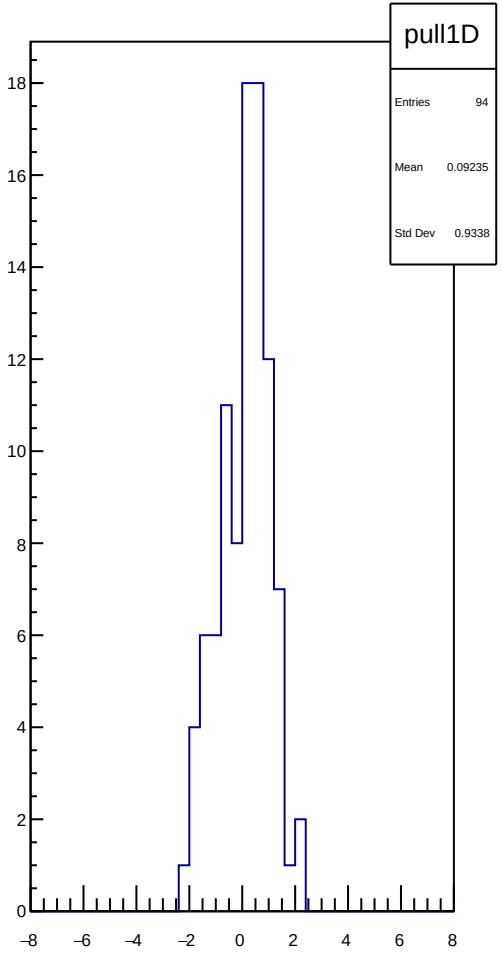

pull1D
Entries 94
Mean −0.01013
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

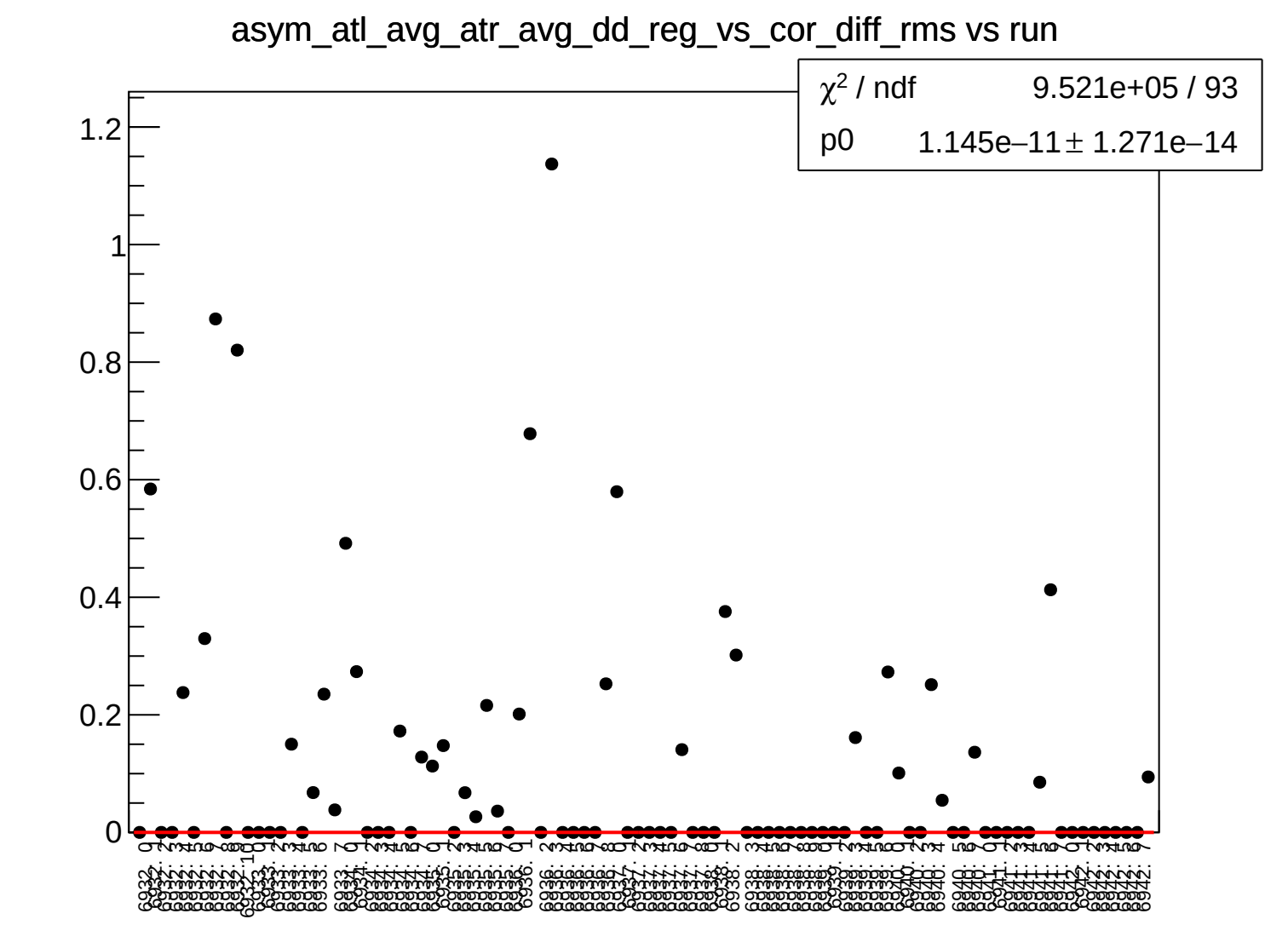

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4910 / 93
p0 462.3 ± 0.3486
540
520
500
480
460
440
420

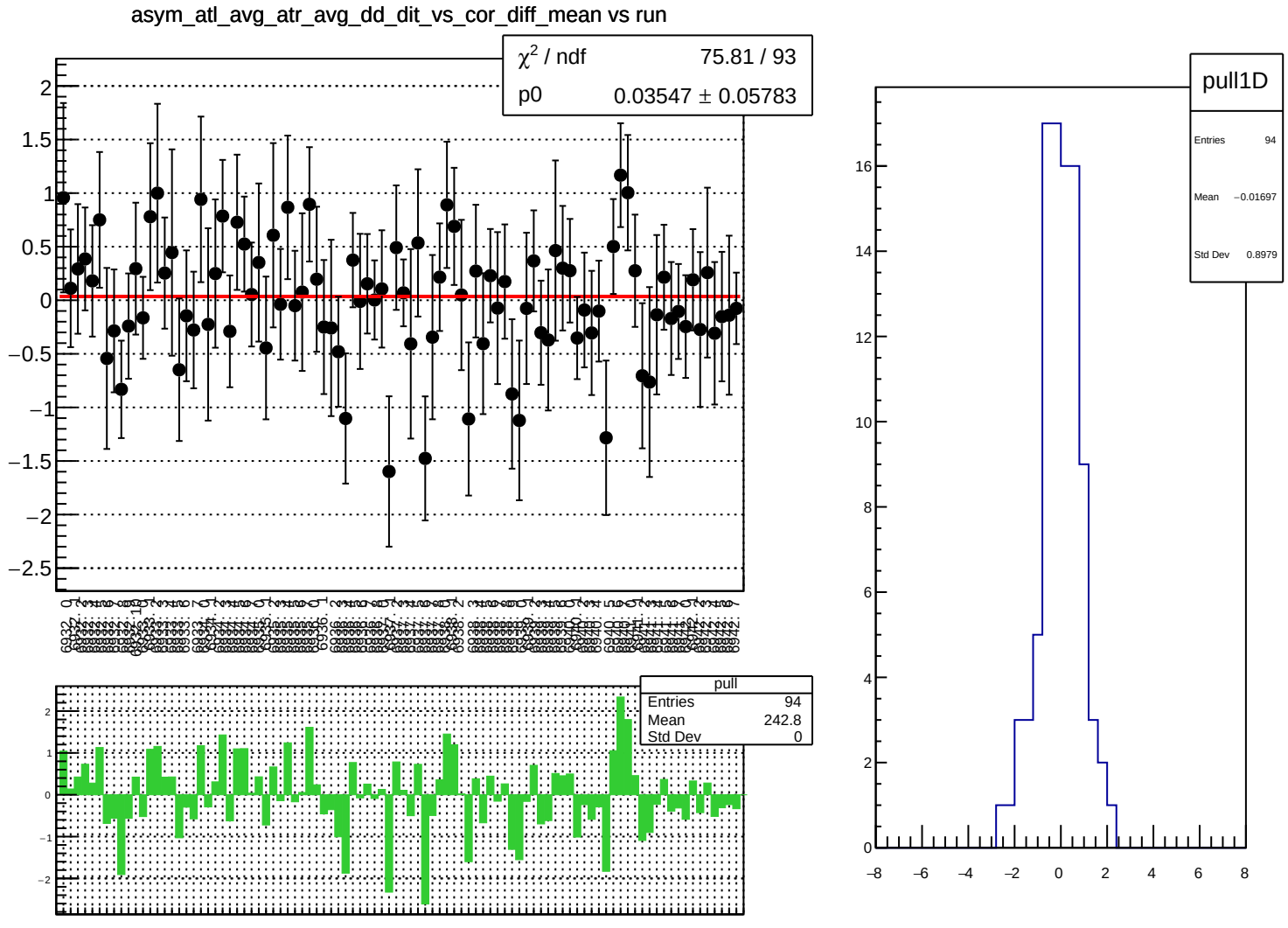

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.04 / 93
p0 592.2 ± 1412
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −514.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004049
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

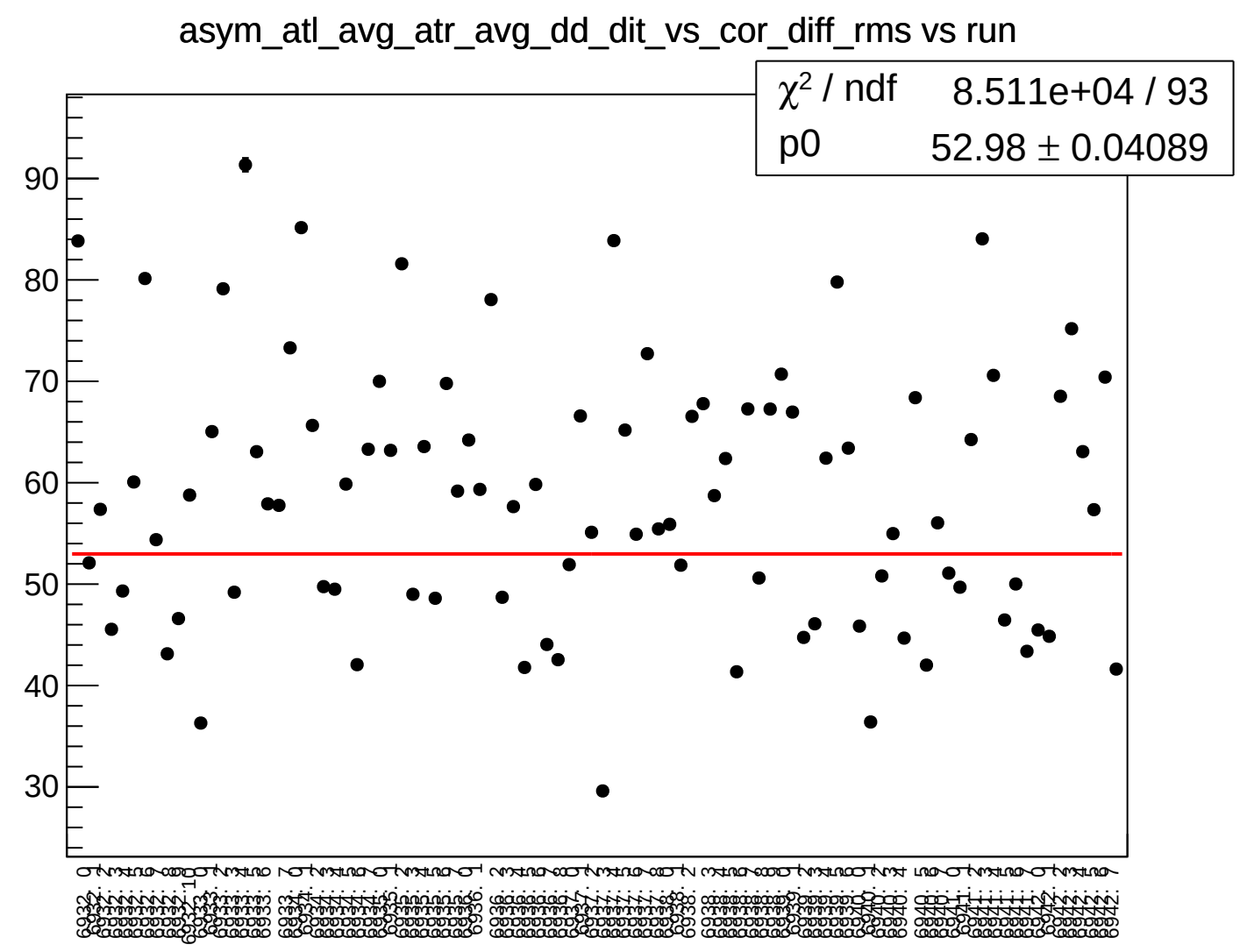

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 145.3 / 93
p0 1326 ± 0.9984
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

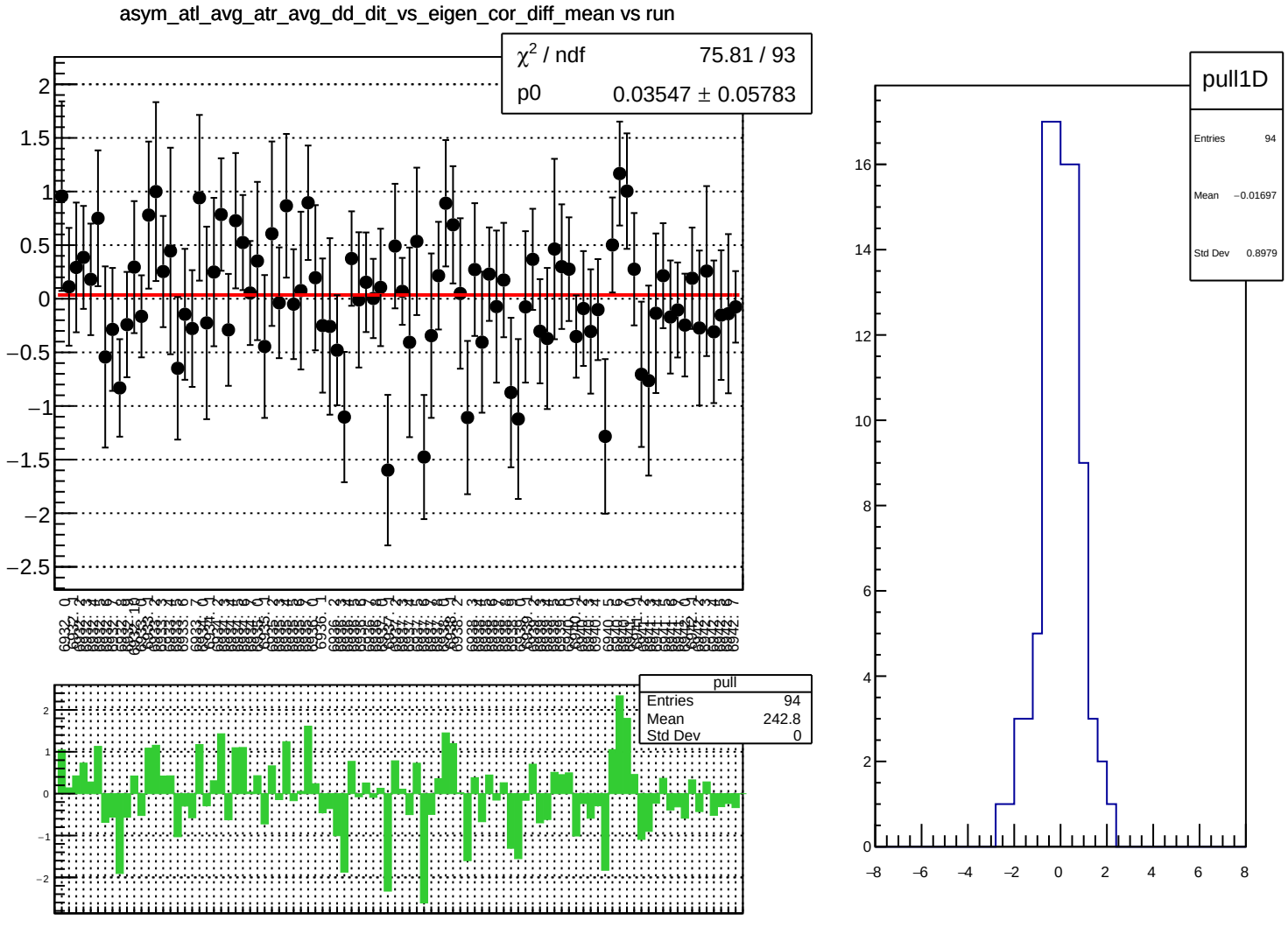

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.77 / 93
p0 −2.891e−15 ± 1.798e−14
pull
Entries 94
Mean 26.59
Std Dev 0

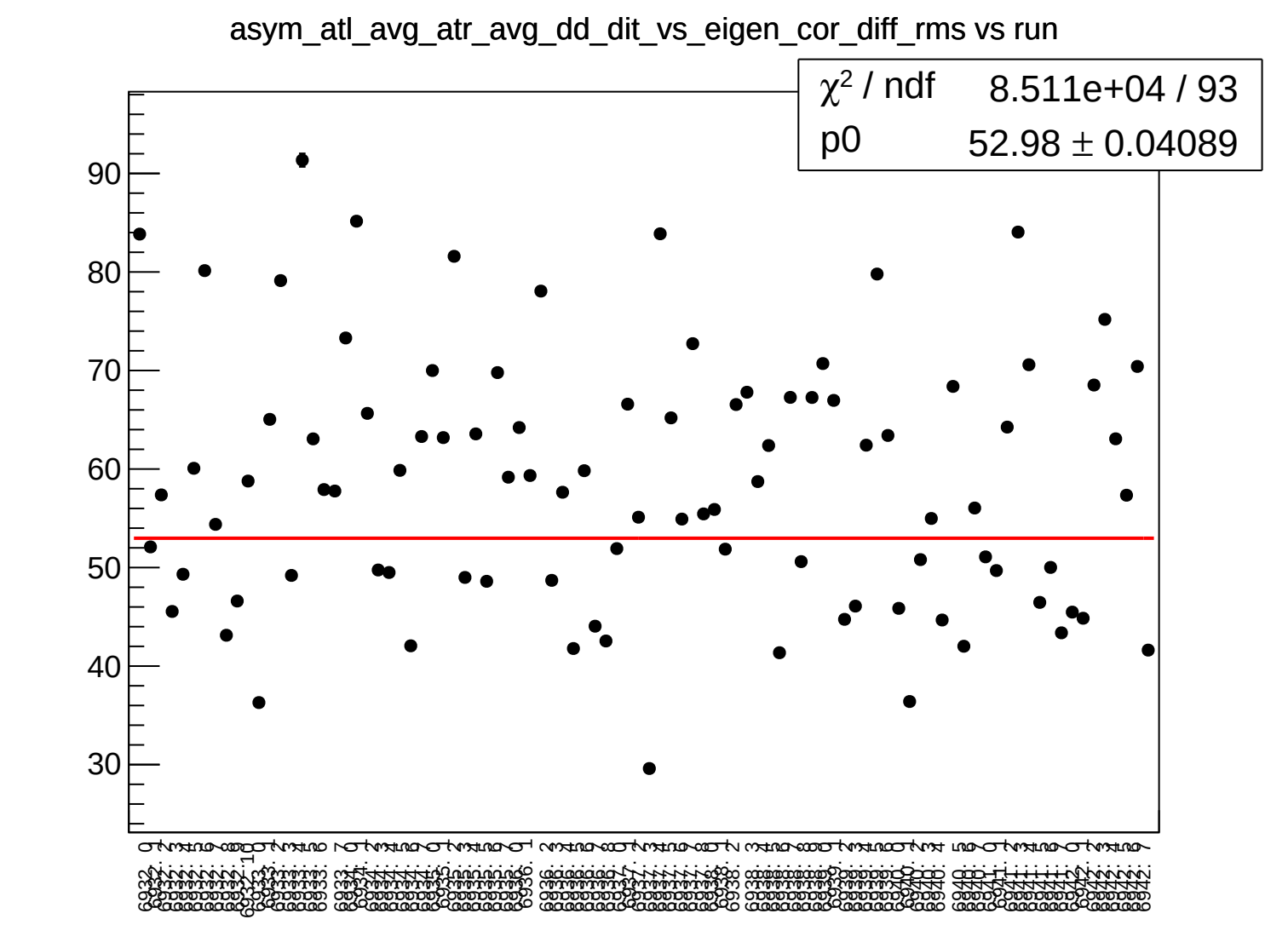

pull1D
Entries 94
Mean 0.09235
Std Dev 0.9338

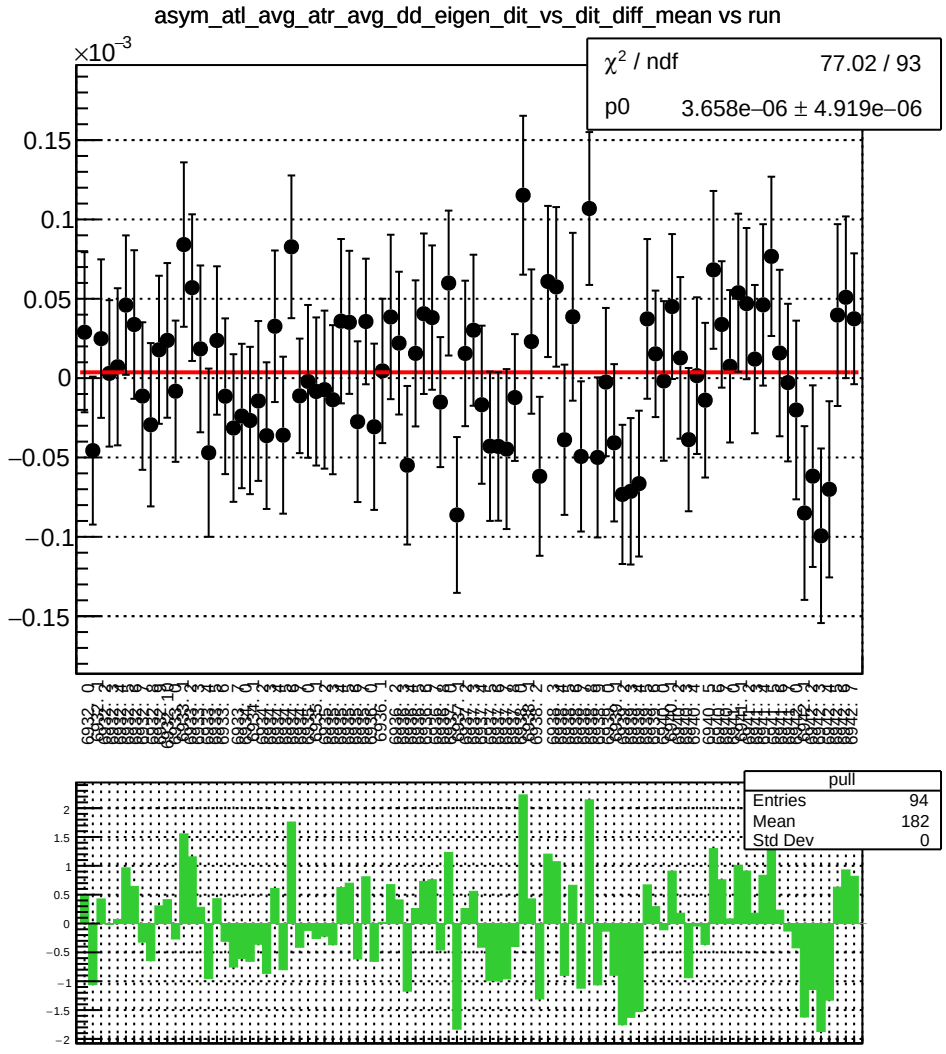

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.521e+05 / 93
p0 1.145e−11 ± 1.271e−14
1.2
1
0.8
0.6
0.4
0.2
0

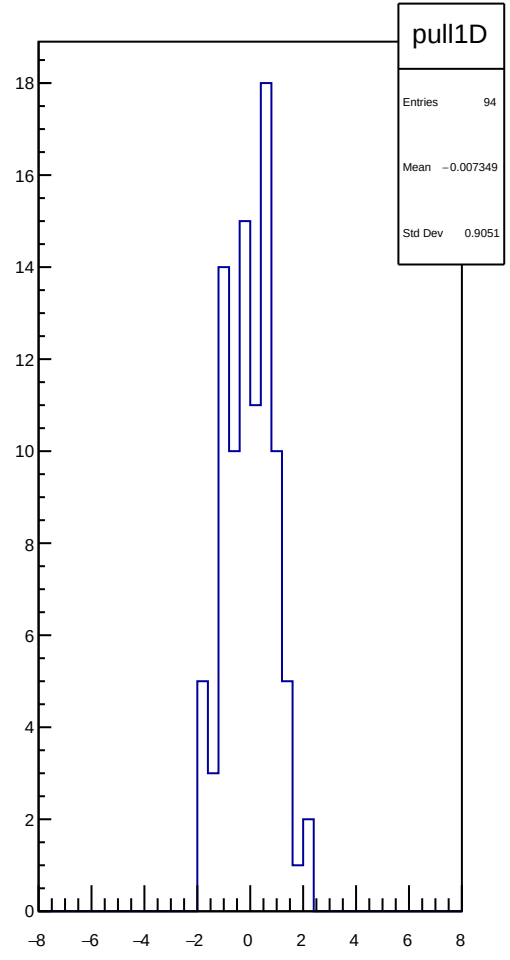

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.8
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

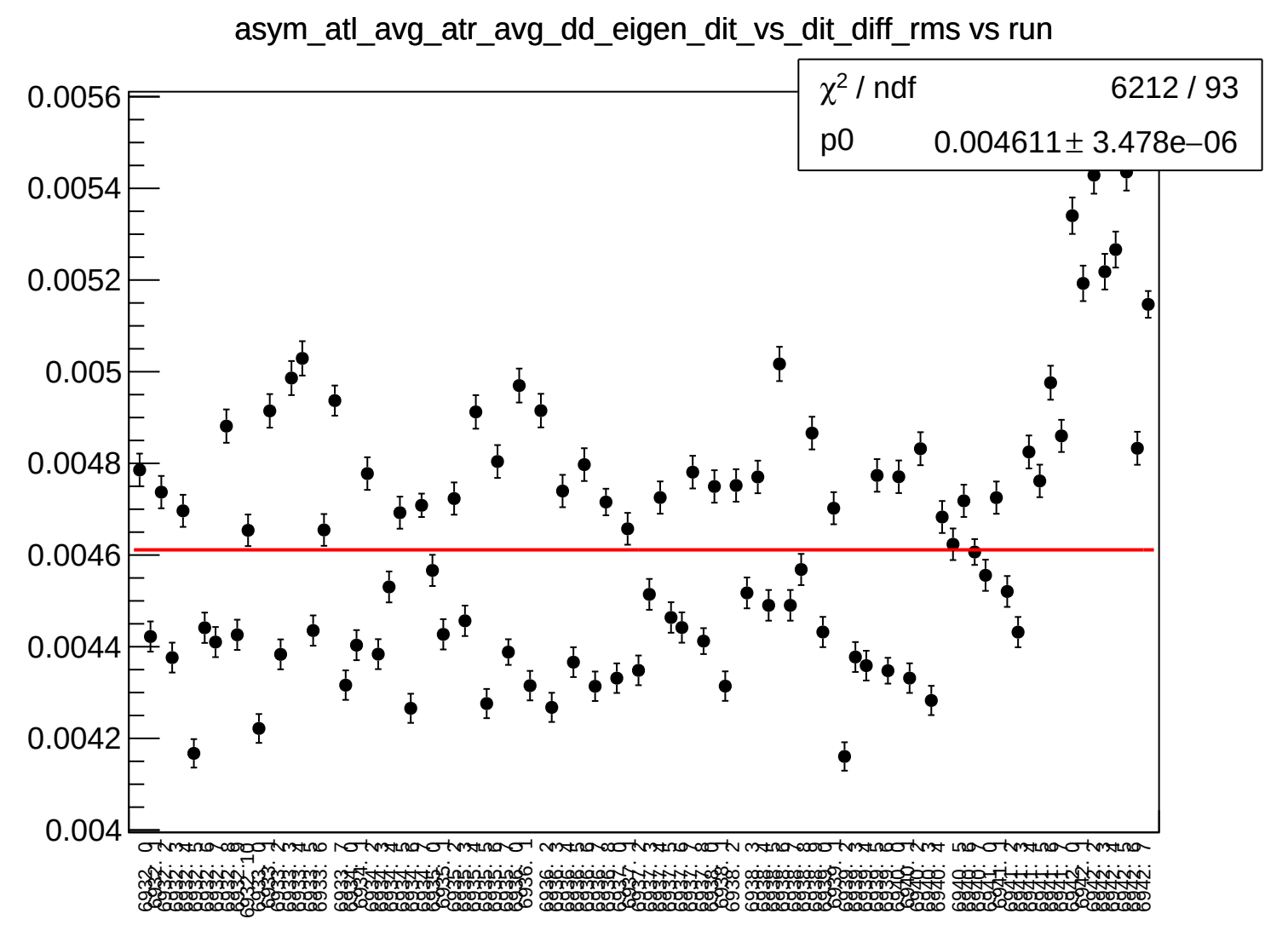

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

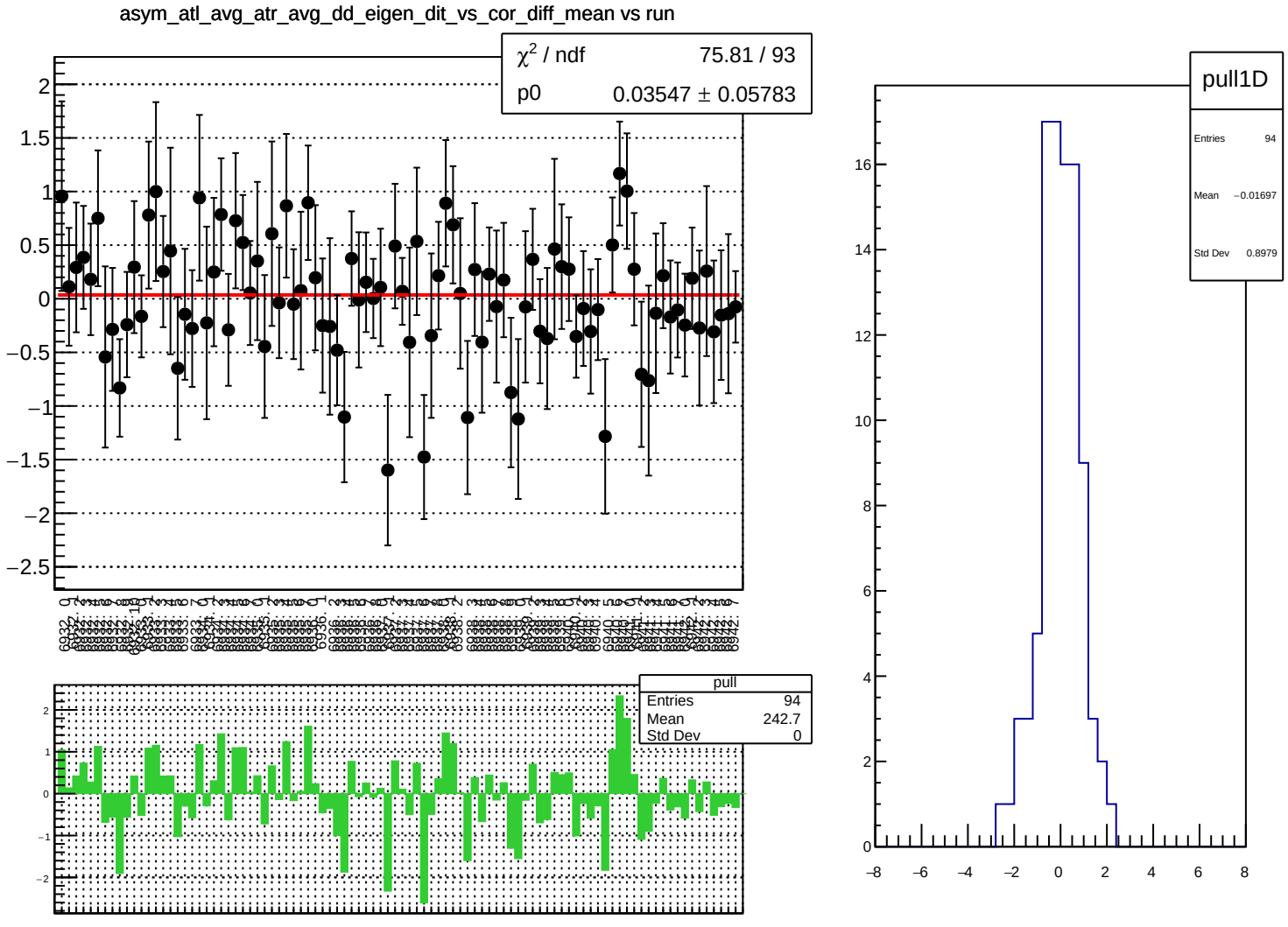

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.8
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

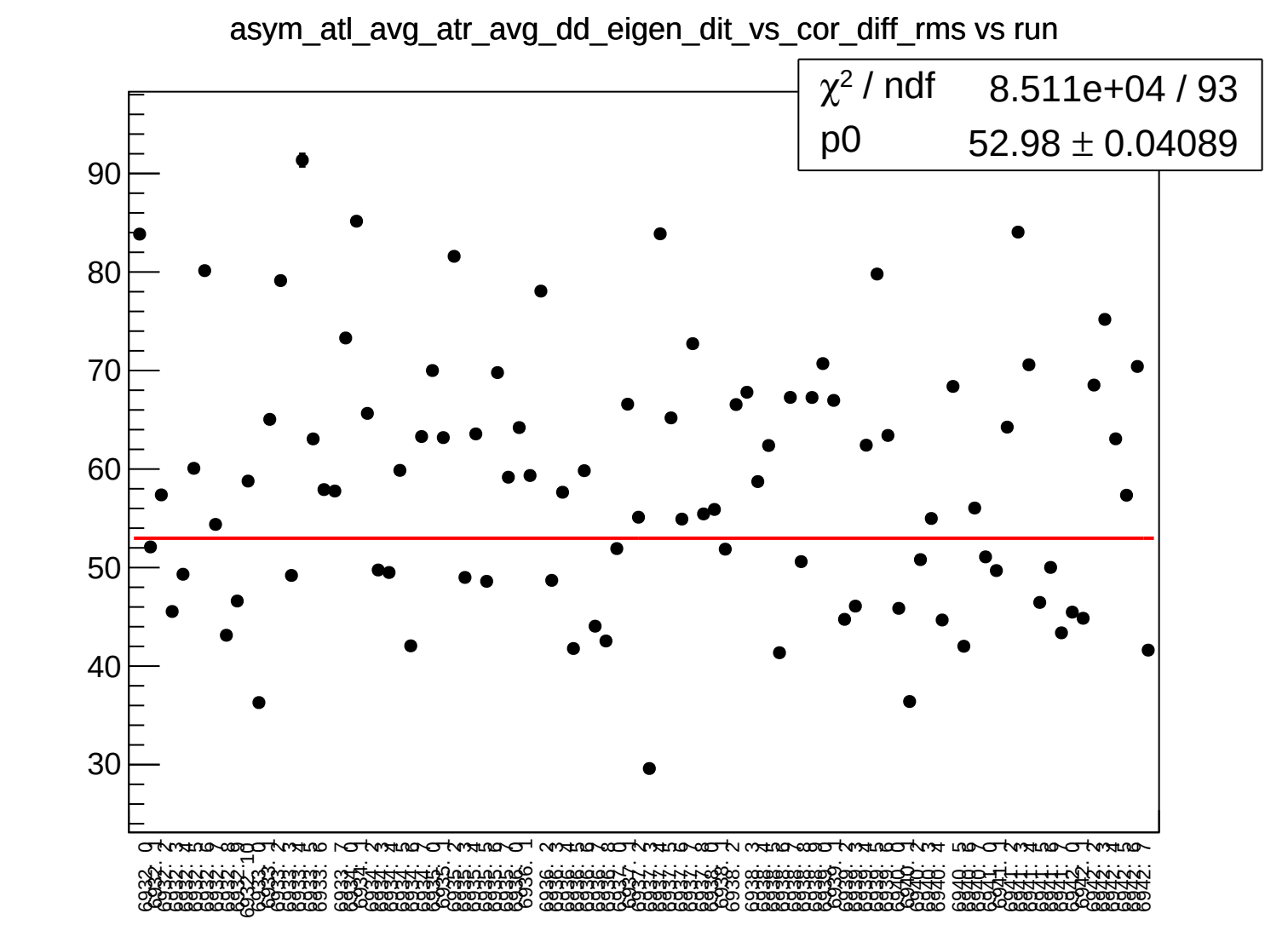

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

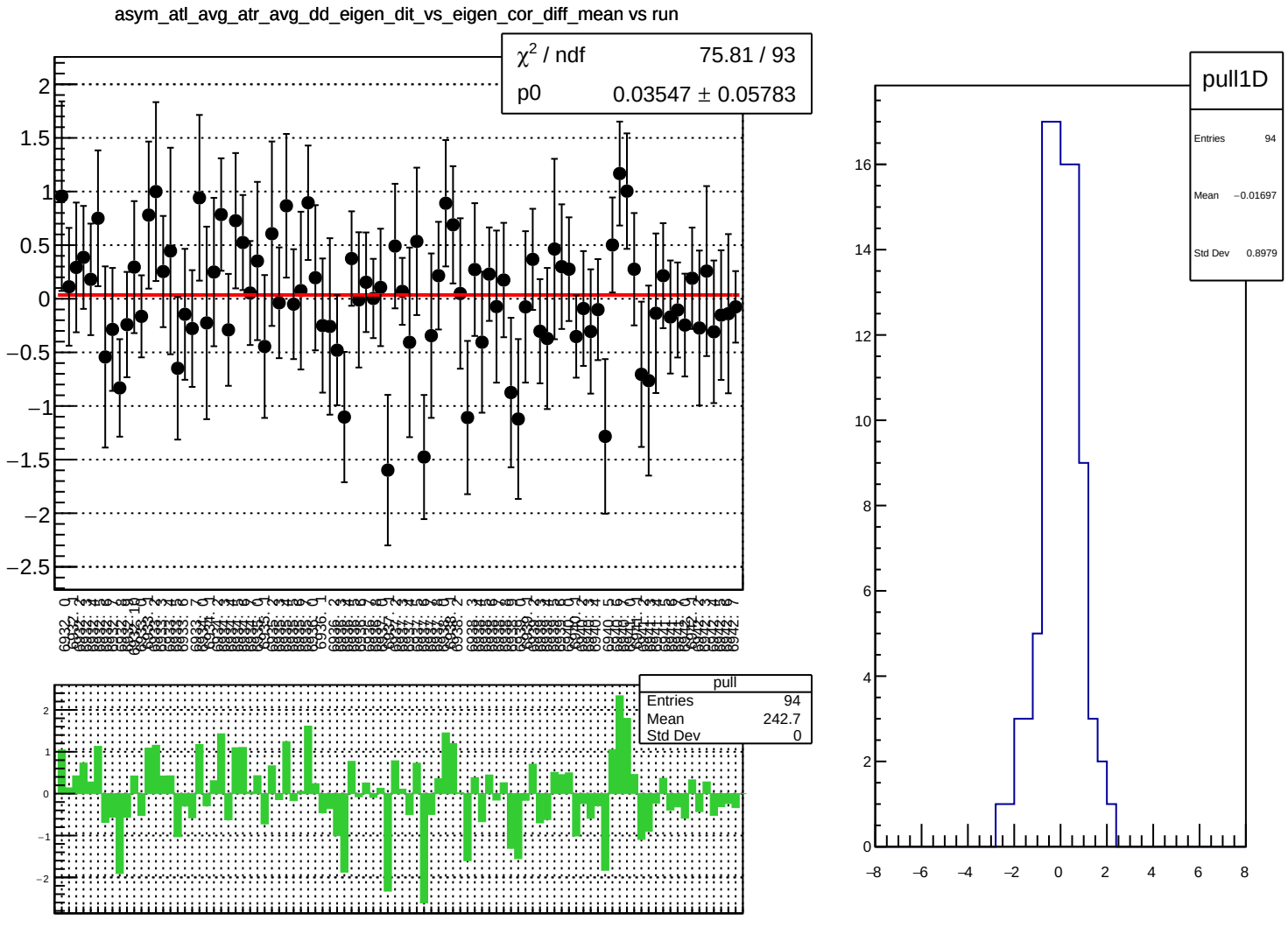

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.02 / 93
p0 3.658e−06 ± 4.919e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 182
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

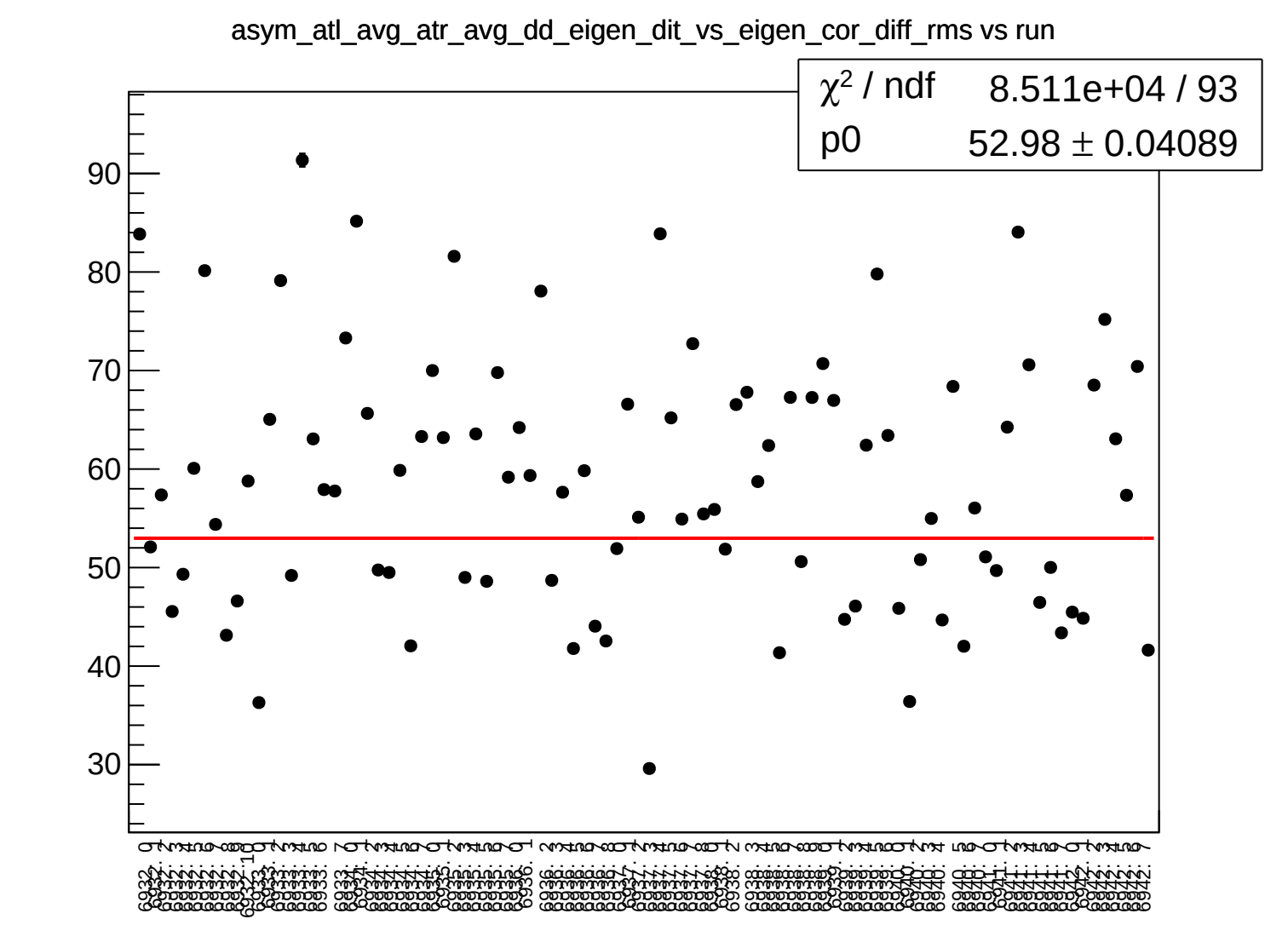

pull1D
Entries 94
Mean −0.007349
Std Dev 0.9051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

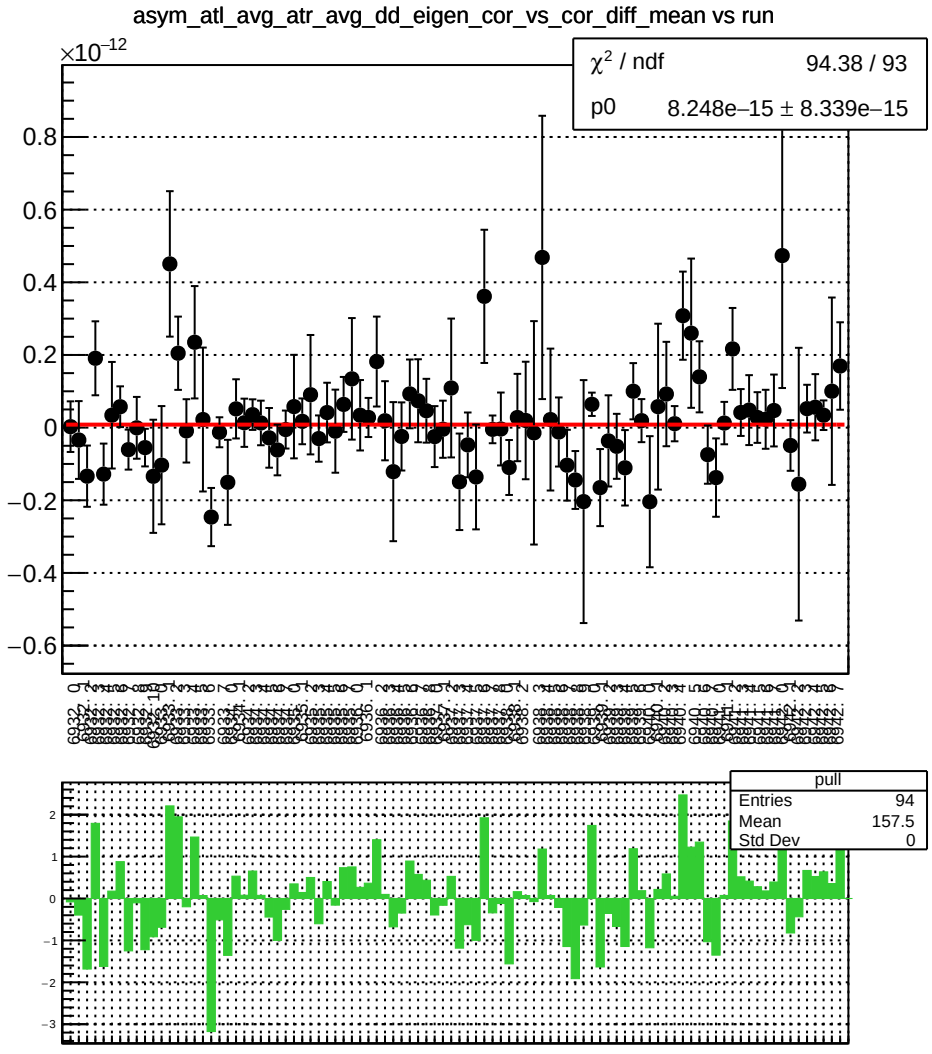

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6212 / 93
p0 0.004611 ± 3.478e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

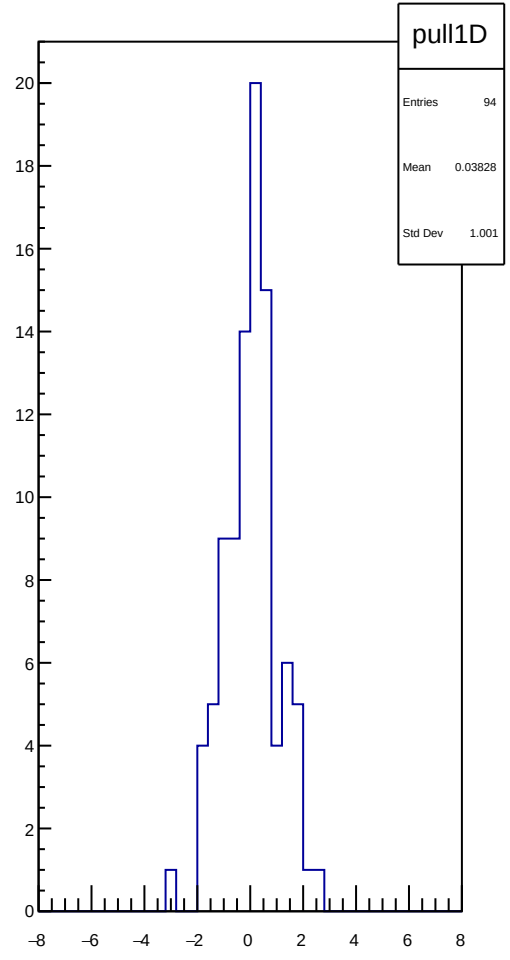

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.7
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

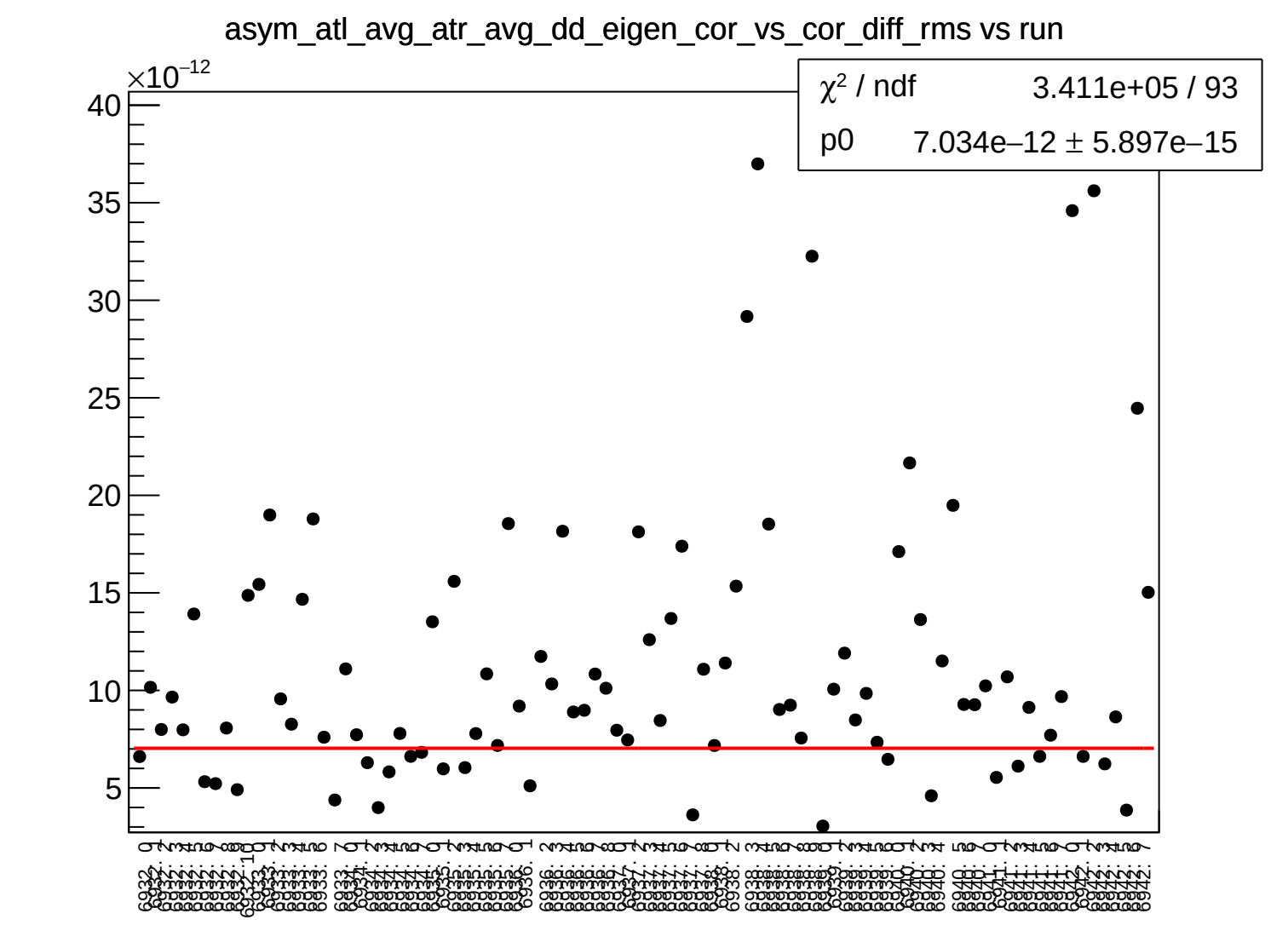

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

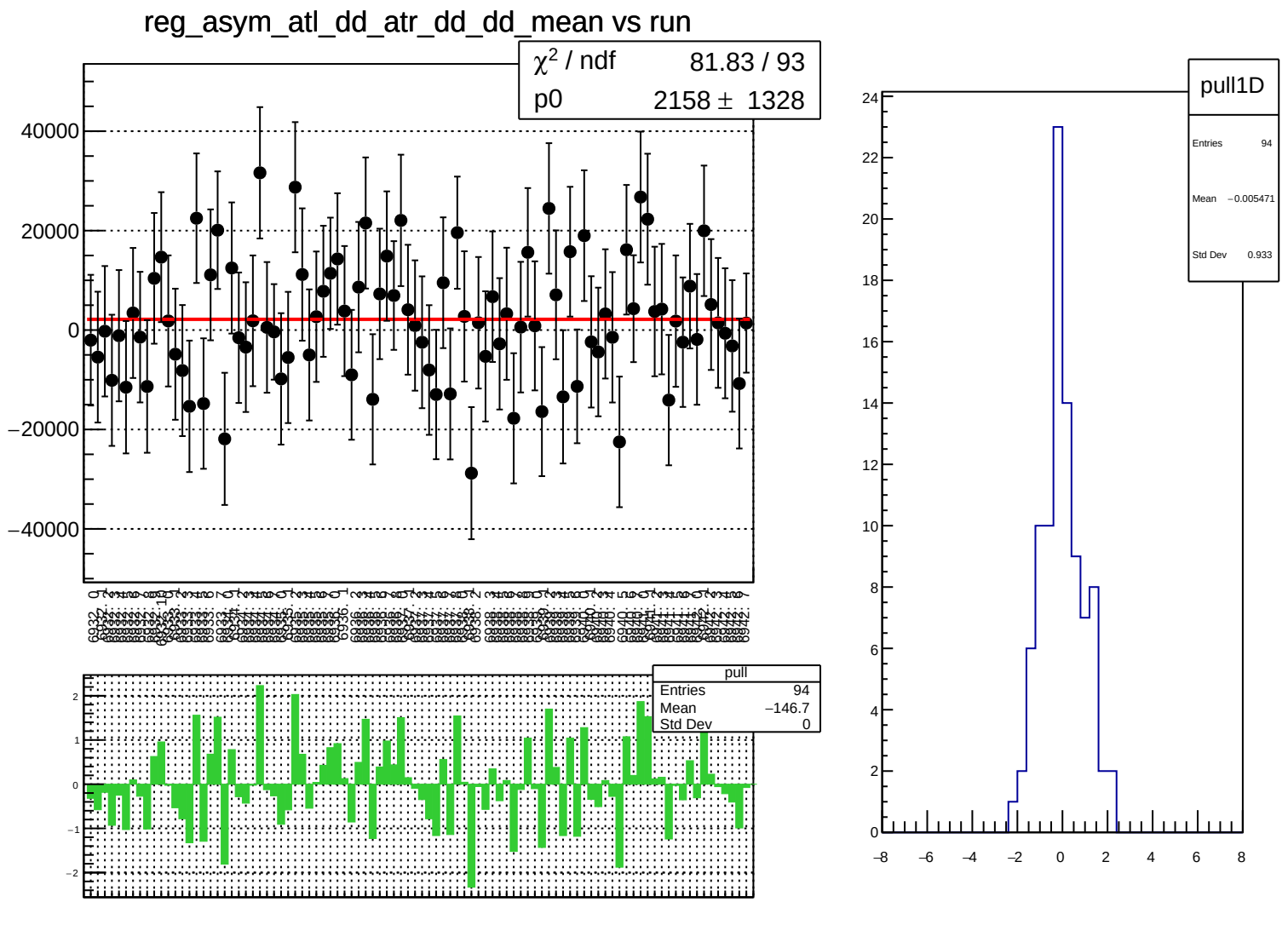

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.7
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

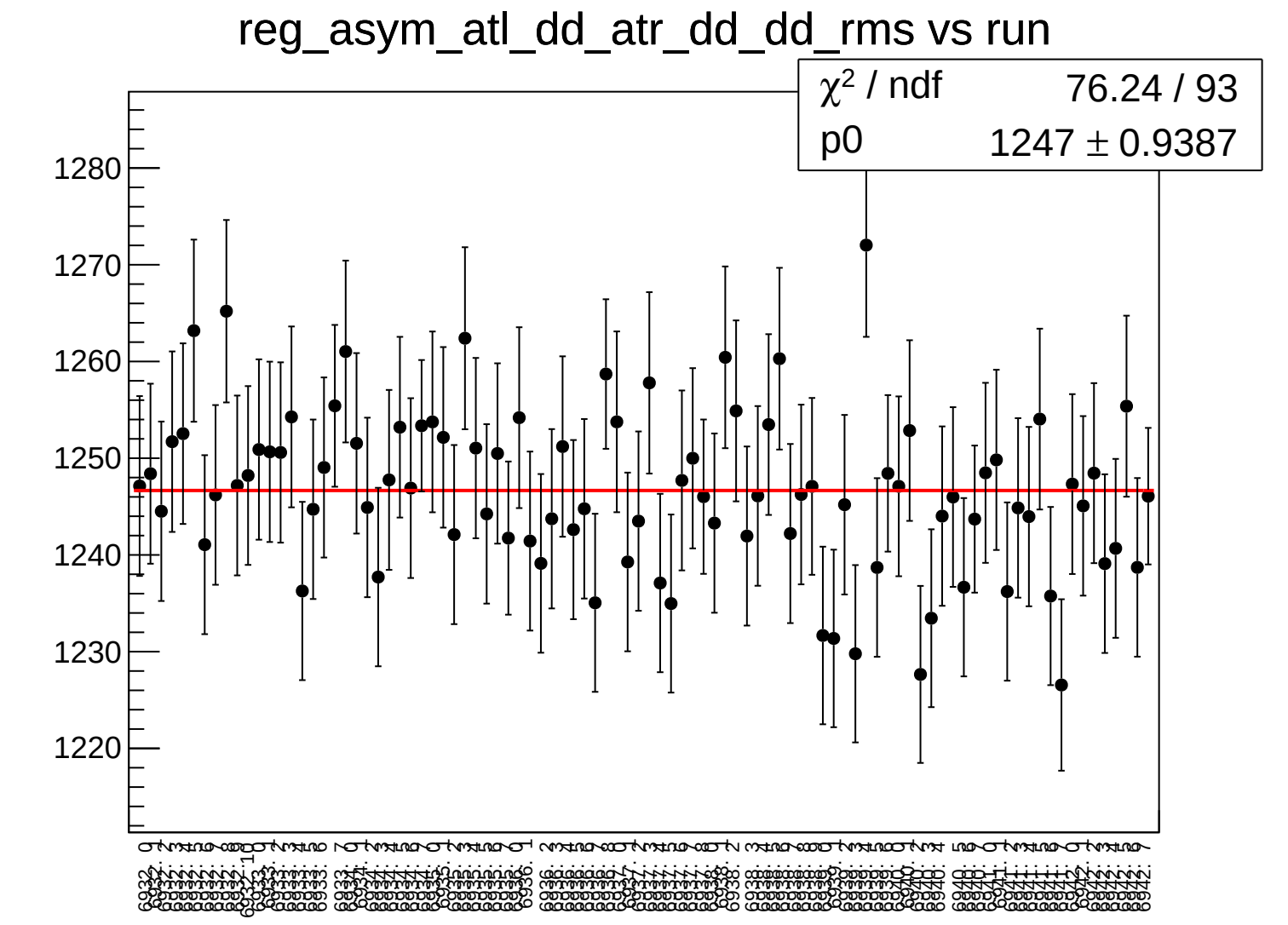

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

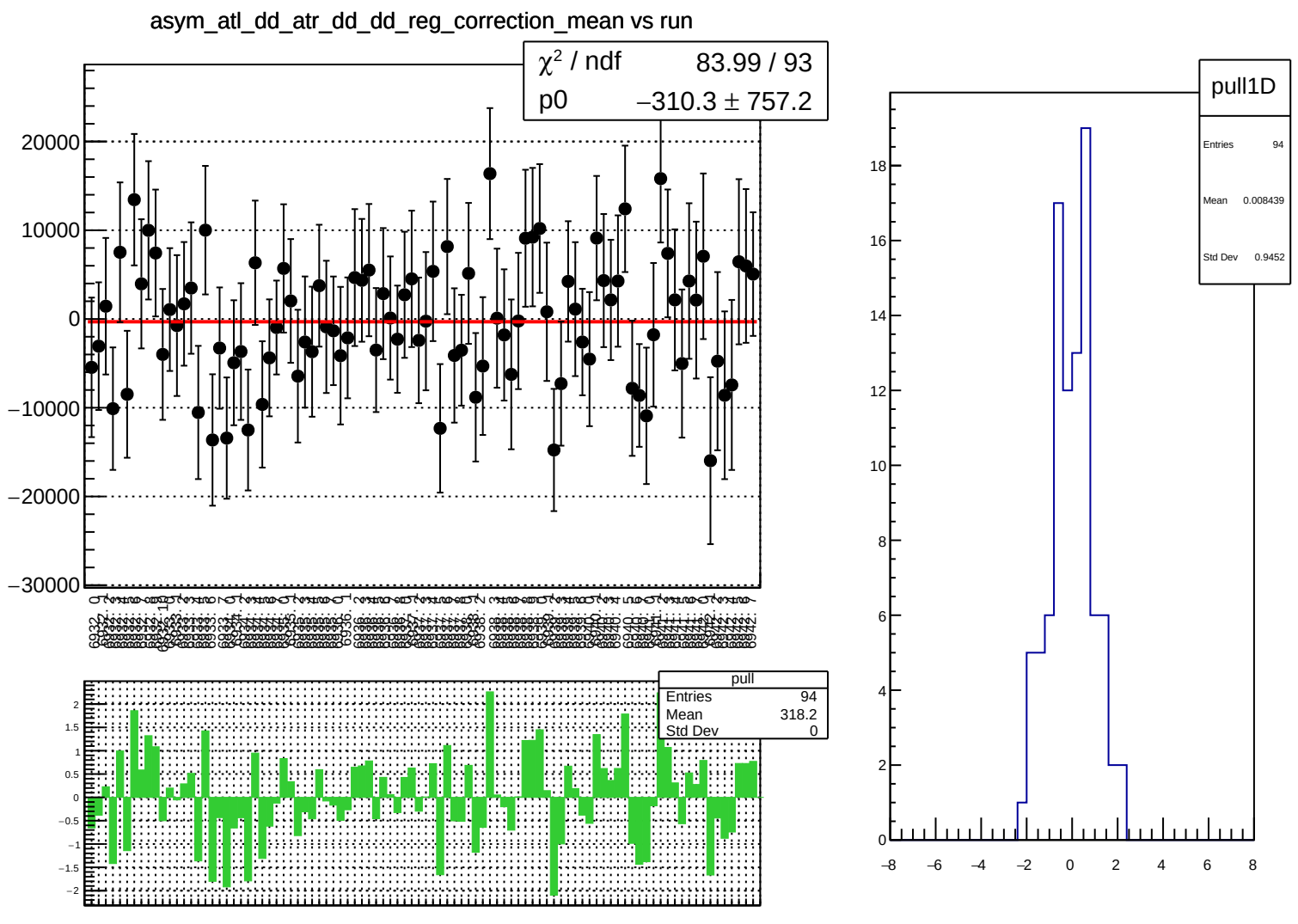

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.38 / 93
p0 8.248e−15 ± 8.339e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 157.5
Std Dev 0
2
1
0
−1
−2
−3

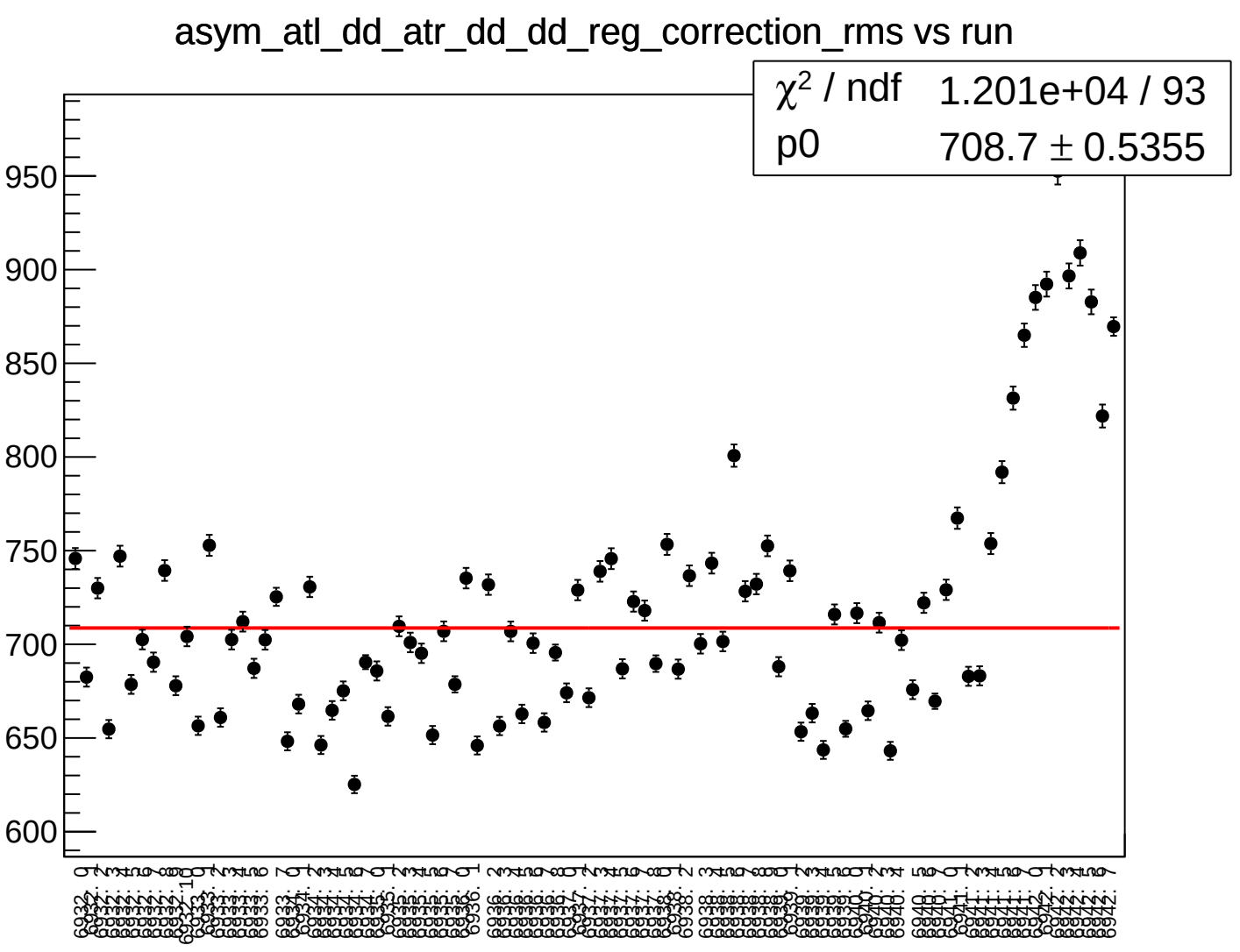

pull1D
Entries 94
Mean 0.03828
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

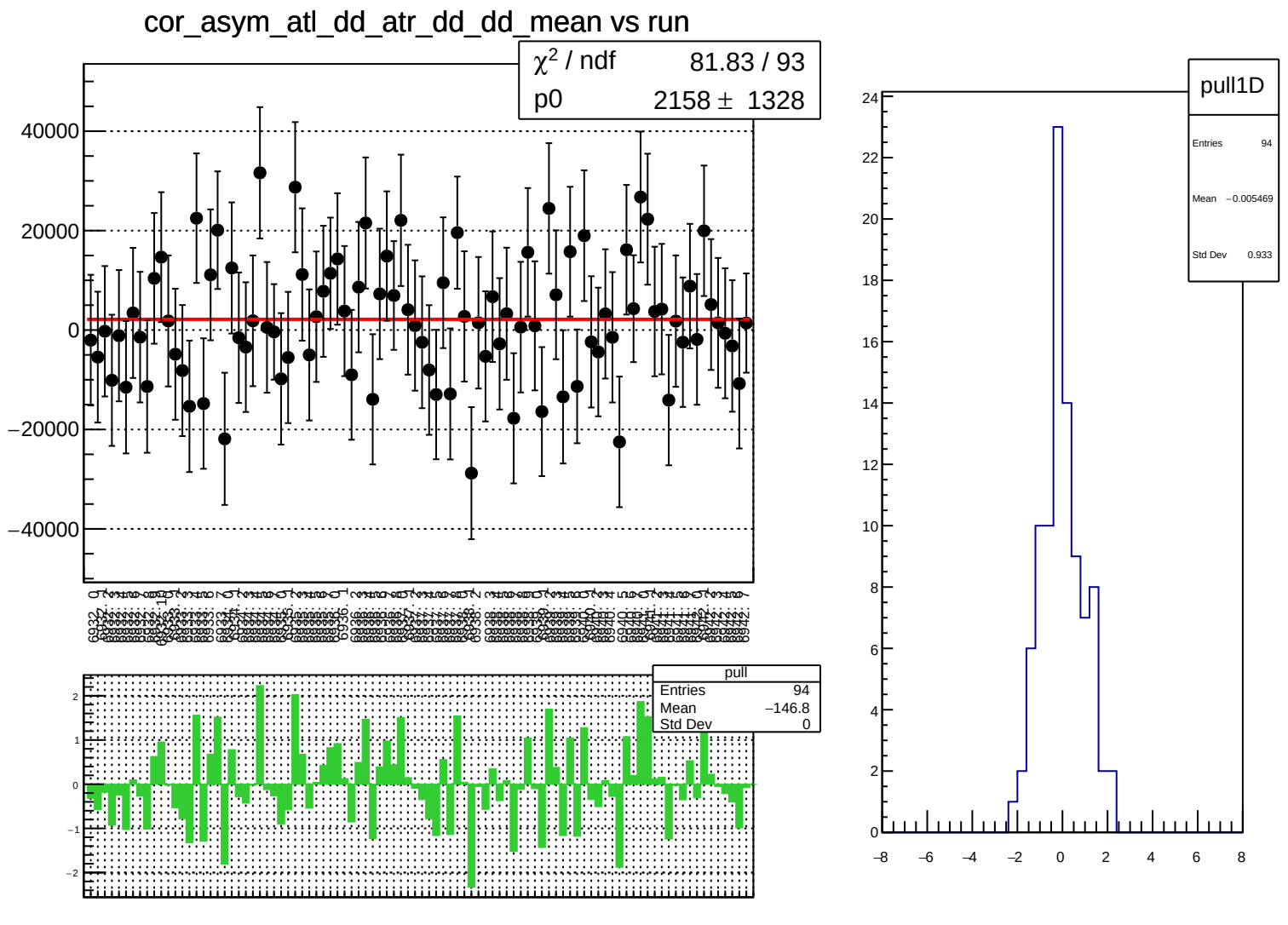

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.411e+05 / 93
p0 7.034e−12 ± 5.897e−15
40
35
30
25
20
15
10
5

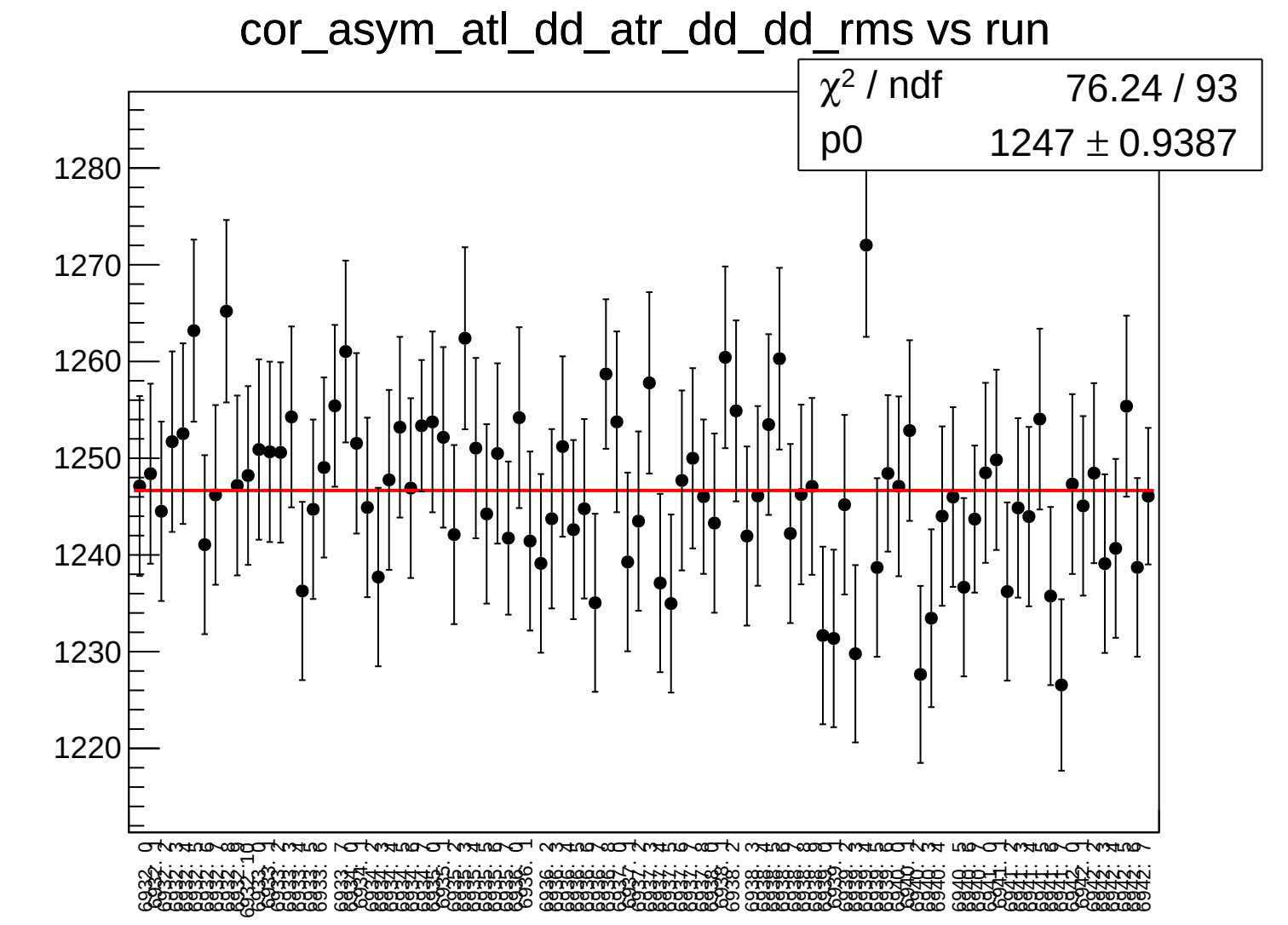

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005471
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

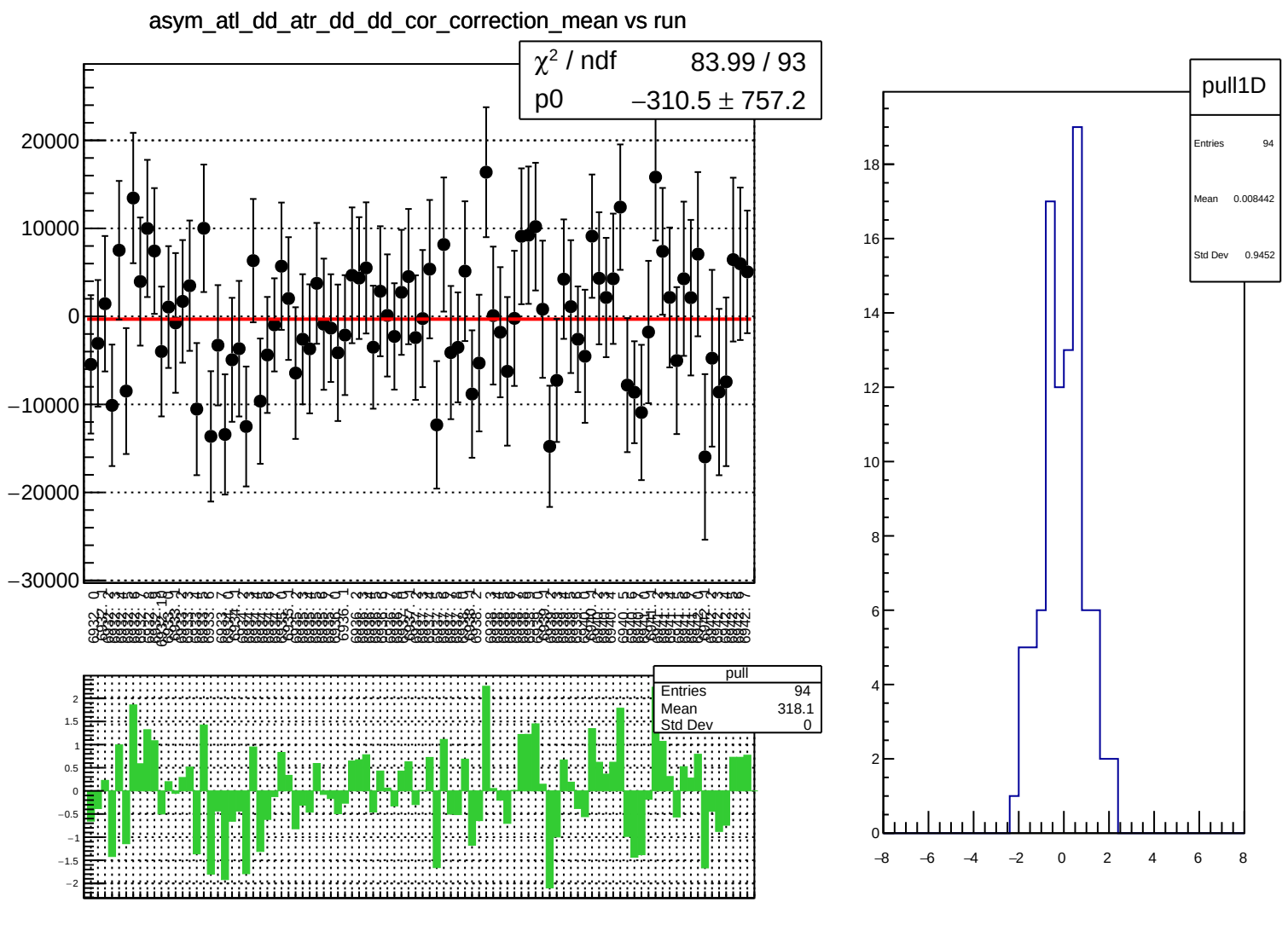

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

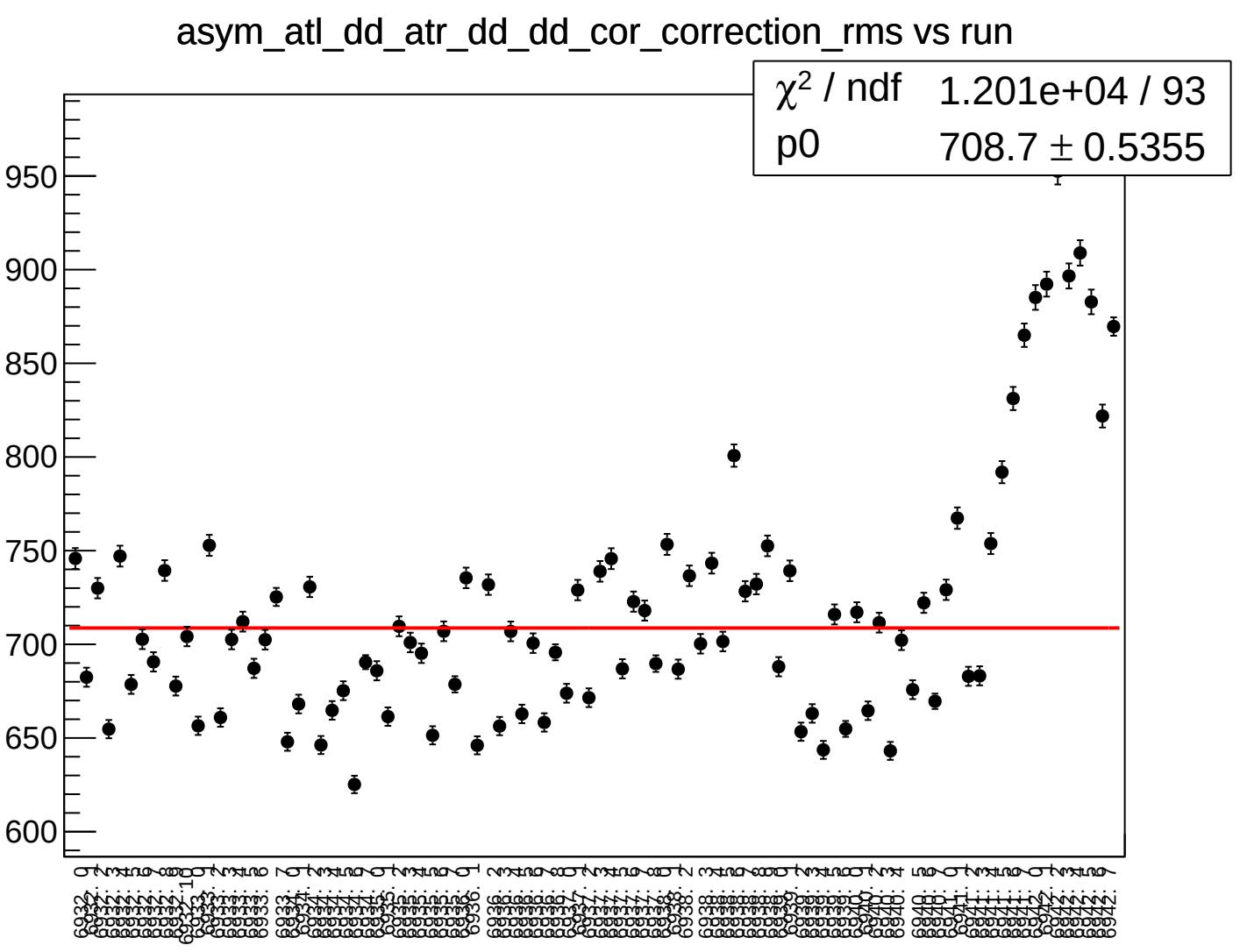

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.3 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008439
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

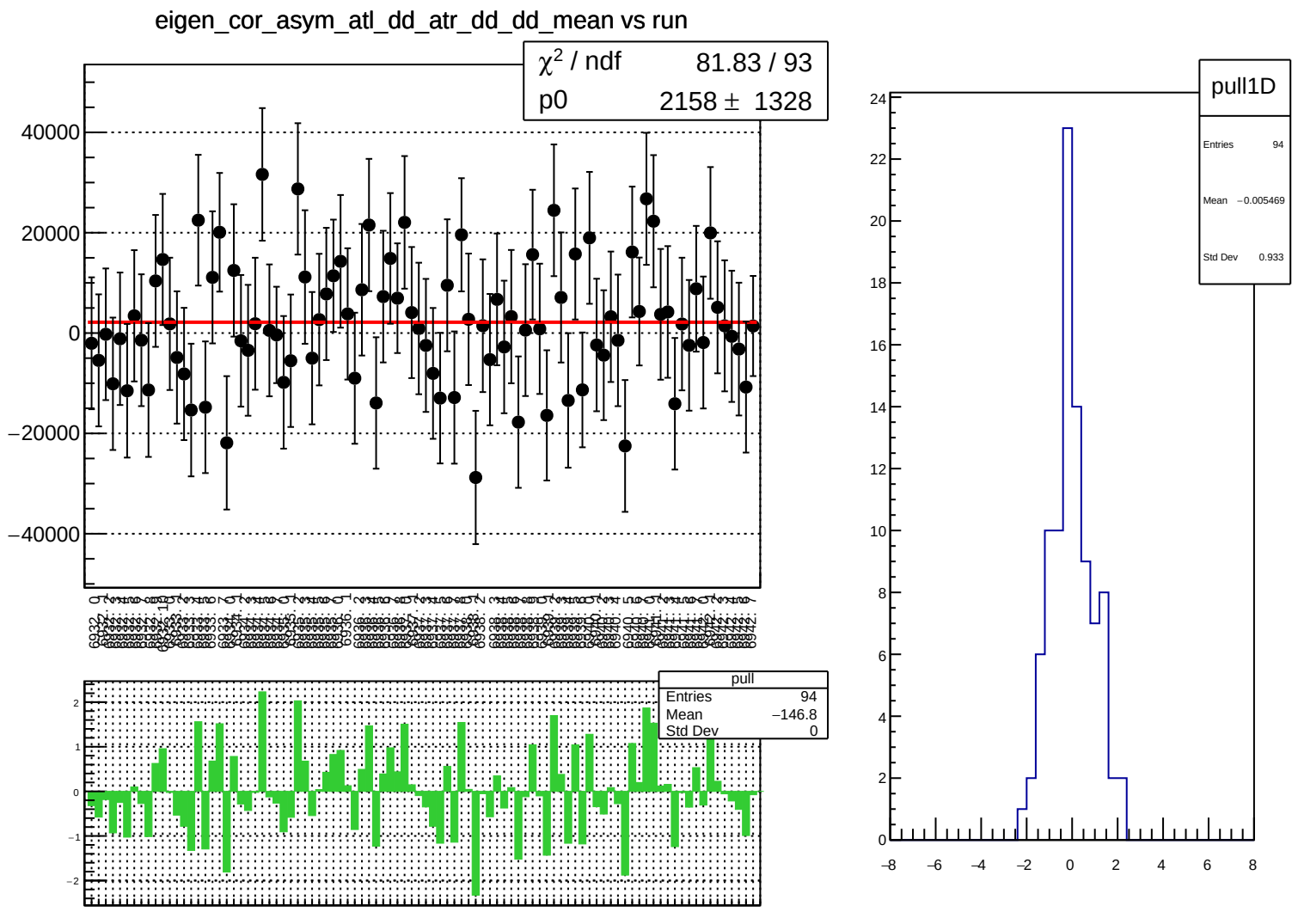

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

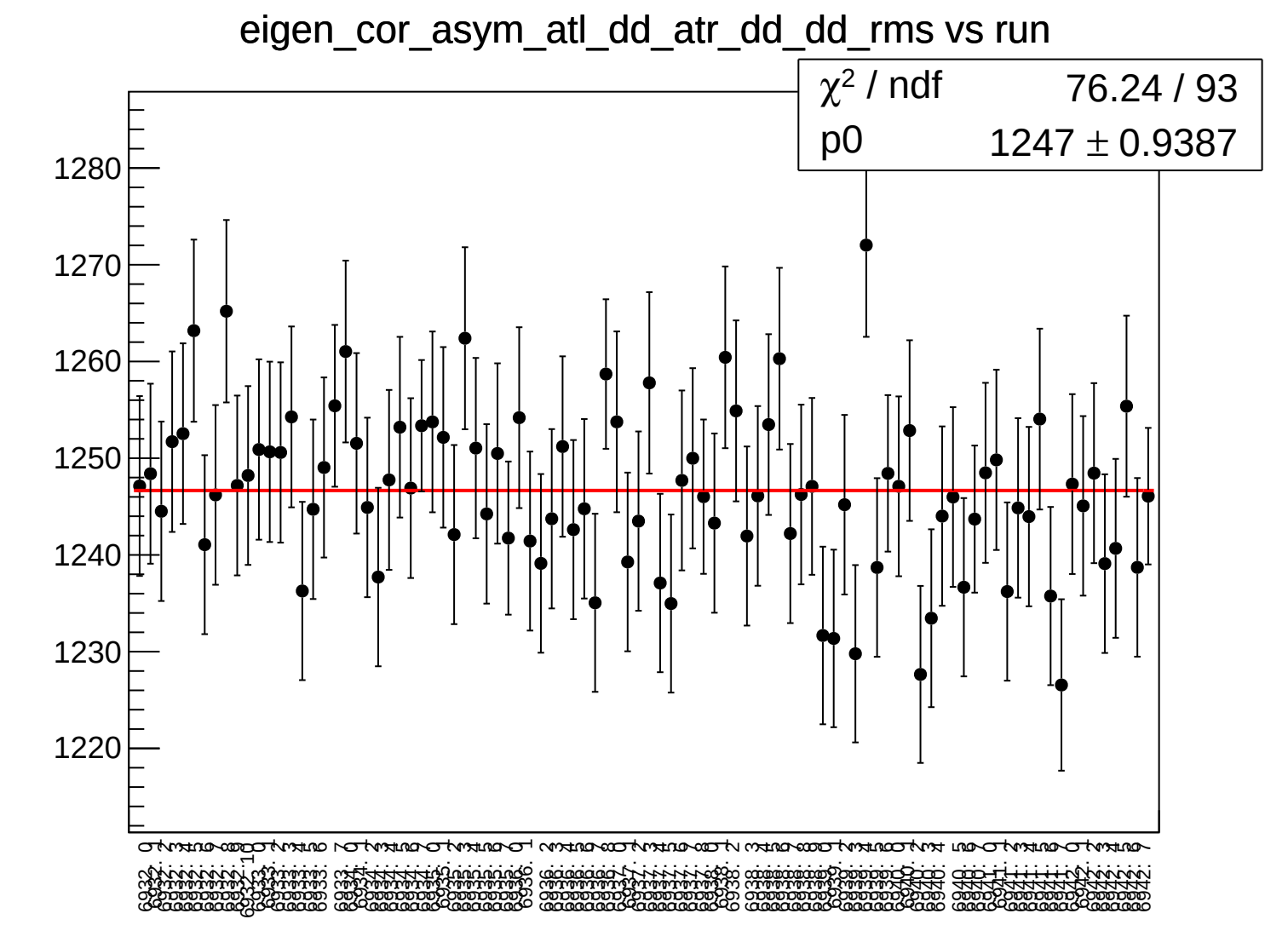

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005469
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

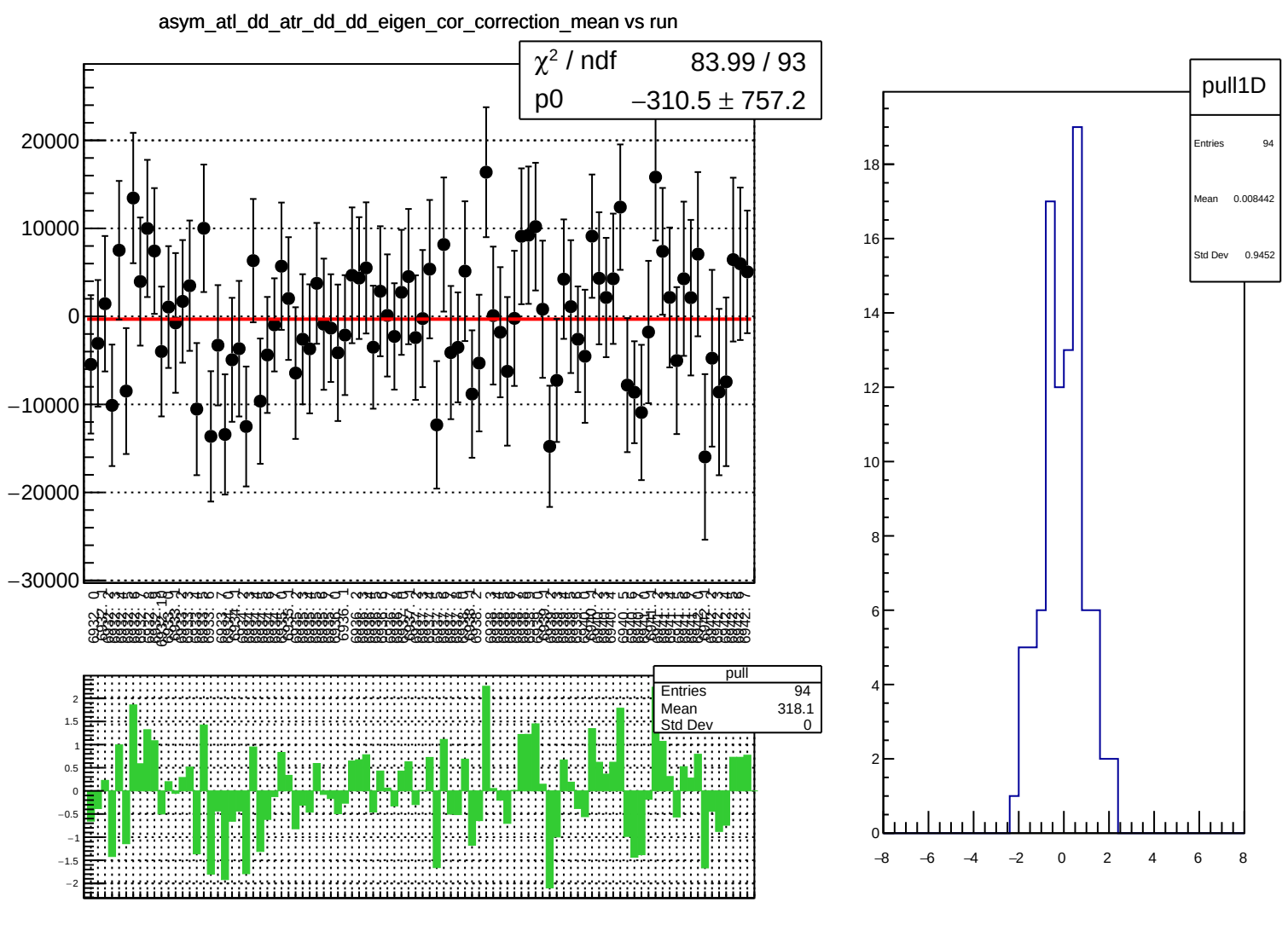

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

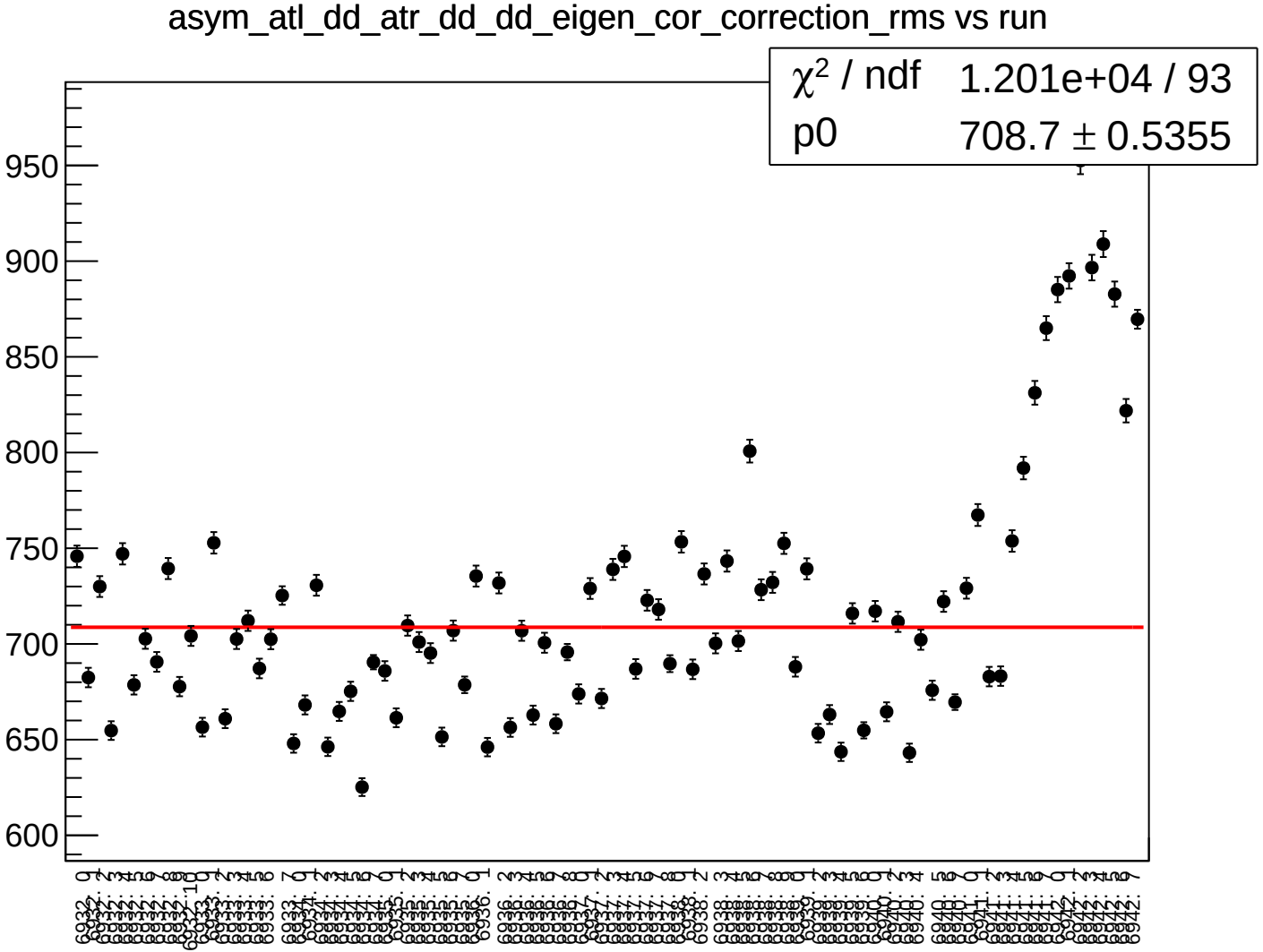

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.5 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008442
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

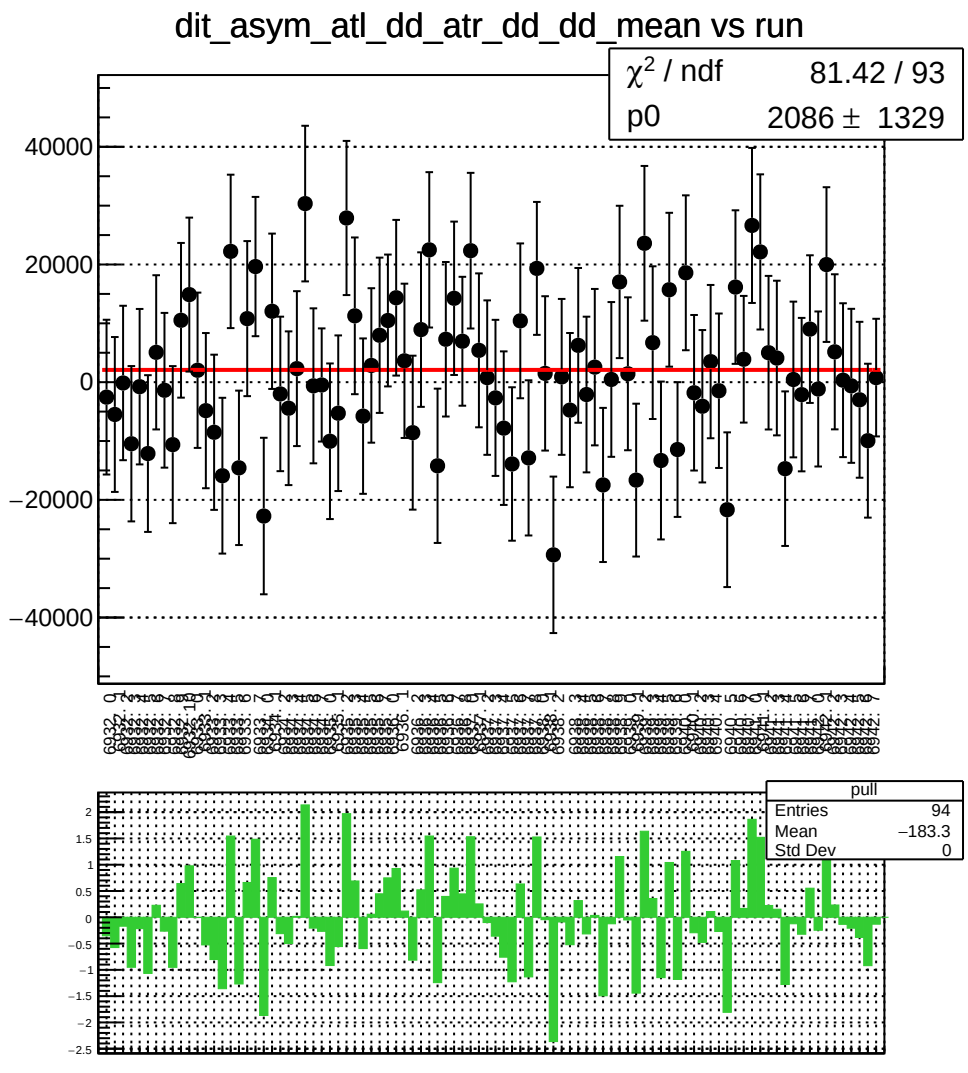

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

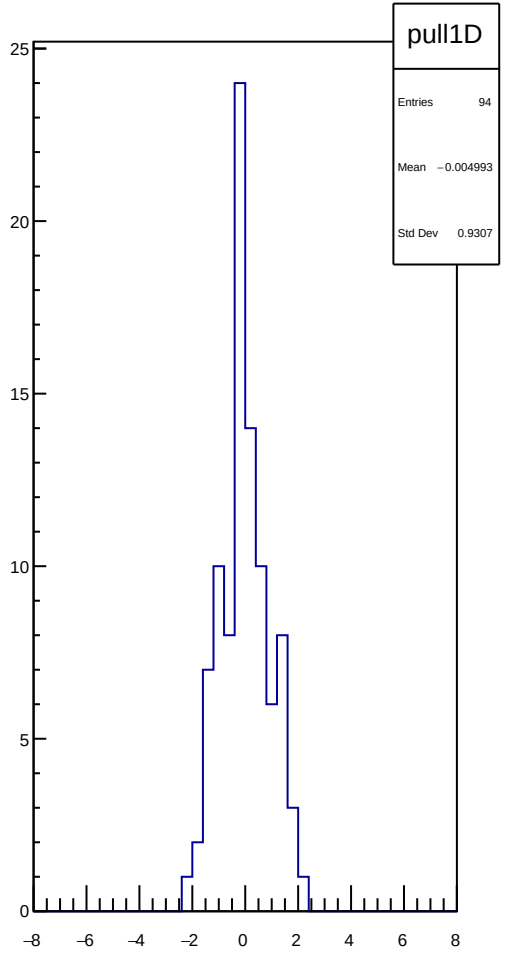

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005469
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

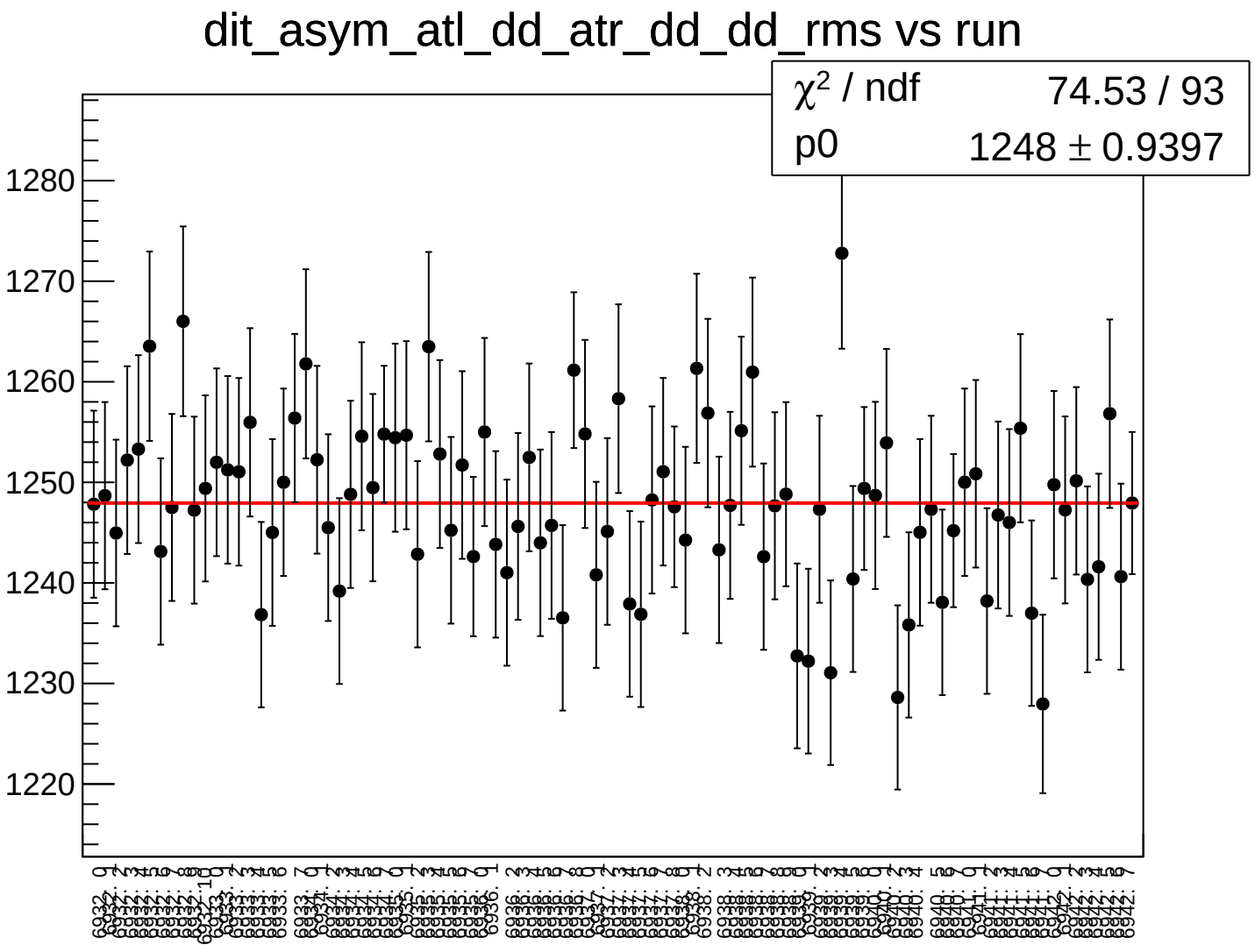

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

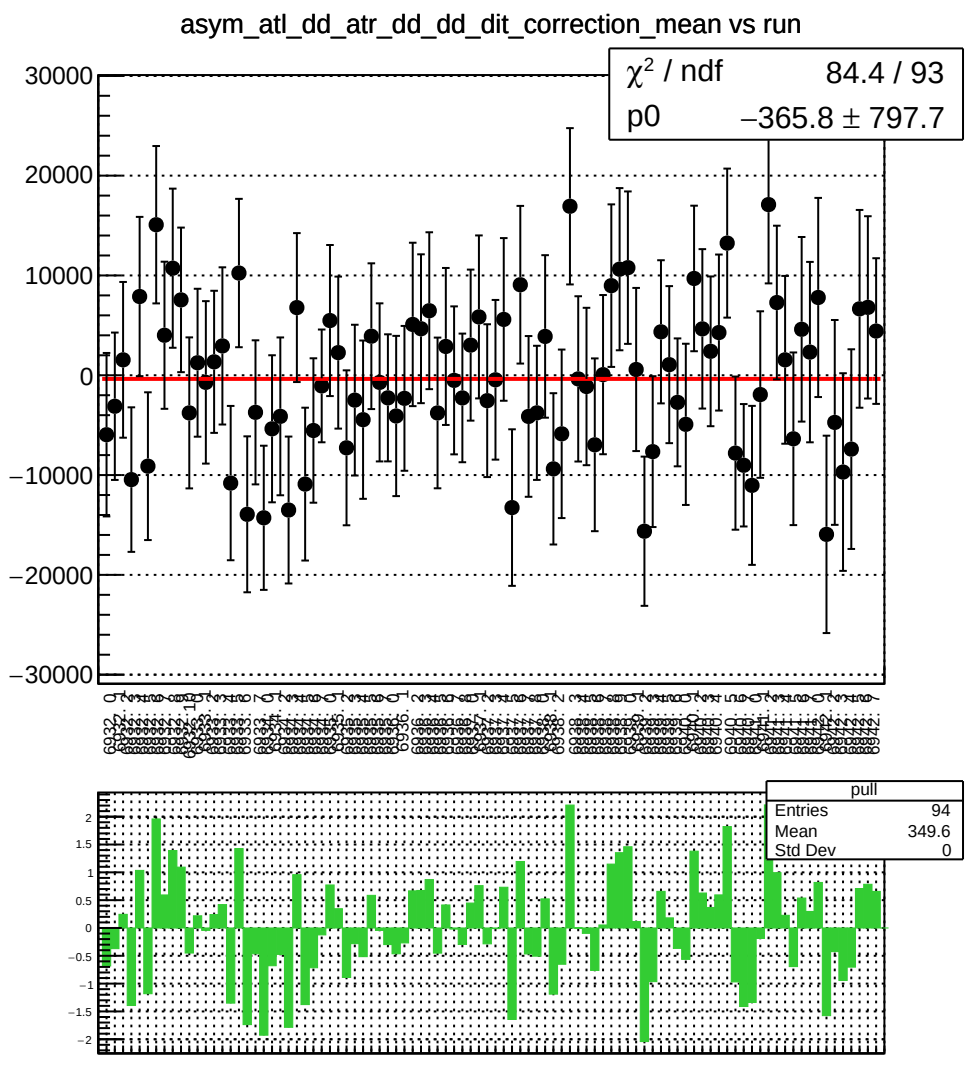

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.5 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008442
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

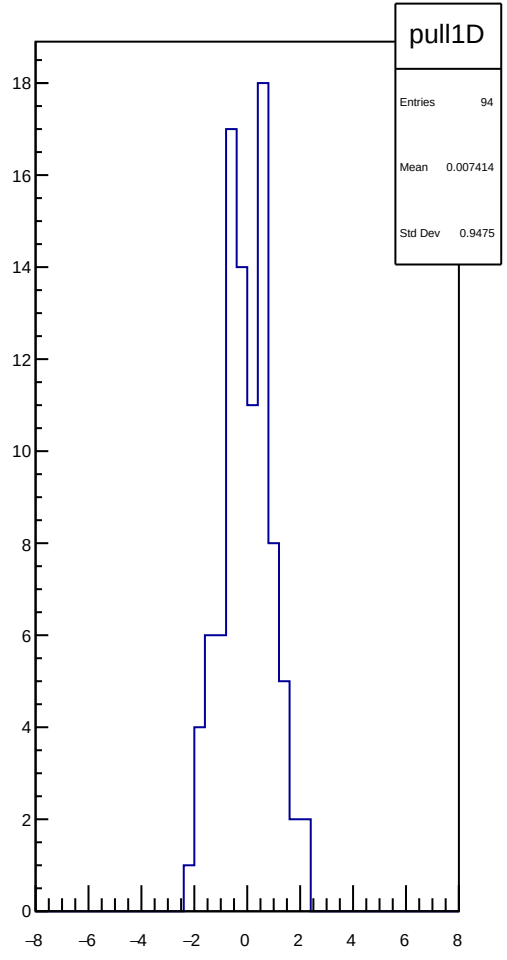

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

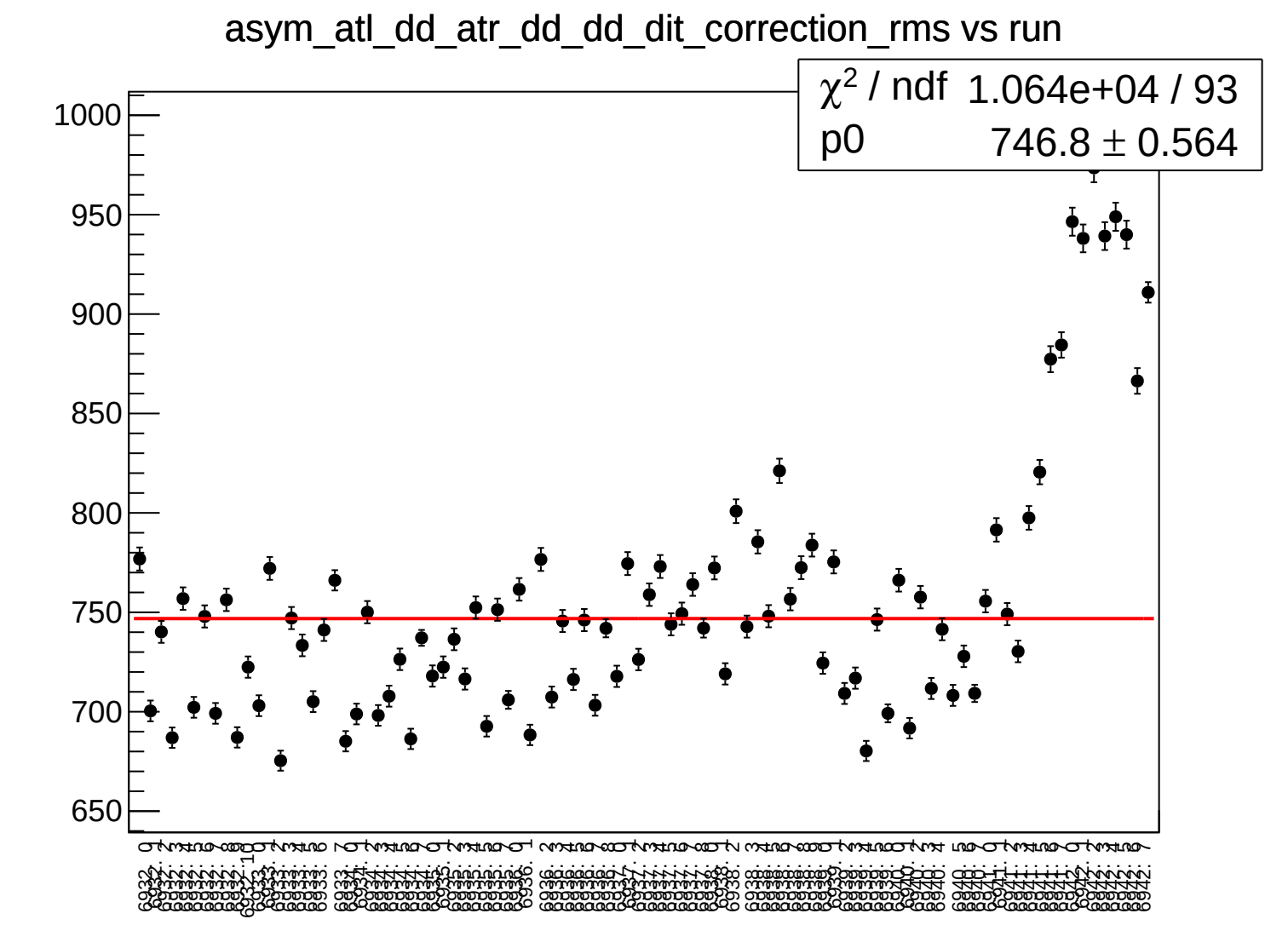

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.42 / 93
p0 2086 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −183.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

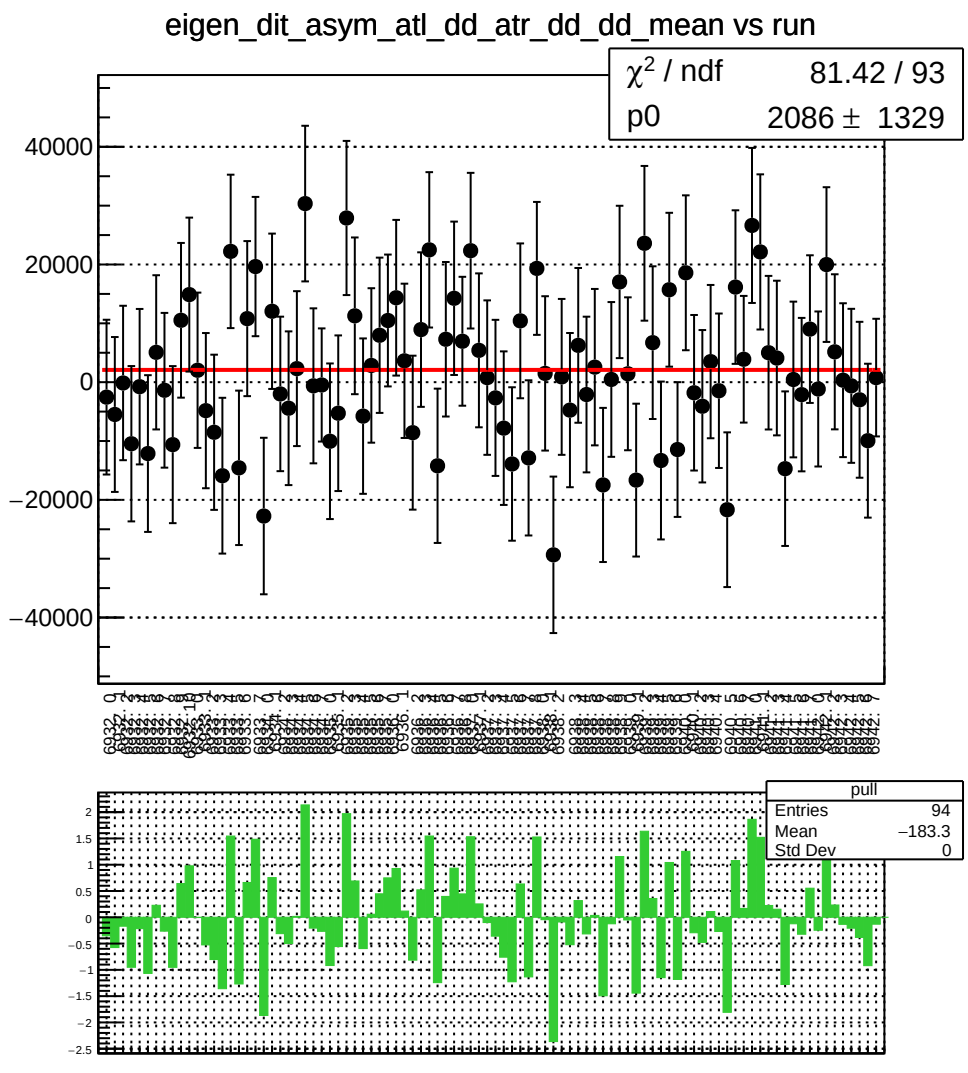

pull1D
Entries 94
Mean −0.004993
Std Dev 0.9307
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

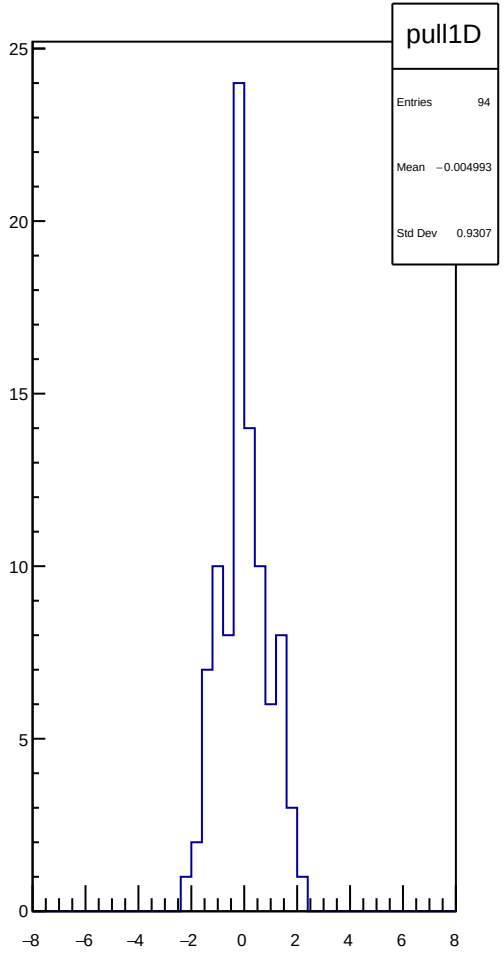

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 74.53 / 93
p0 1248 ± 0.9397
1280
1270
1260
1250
1240
1230
1220

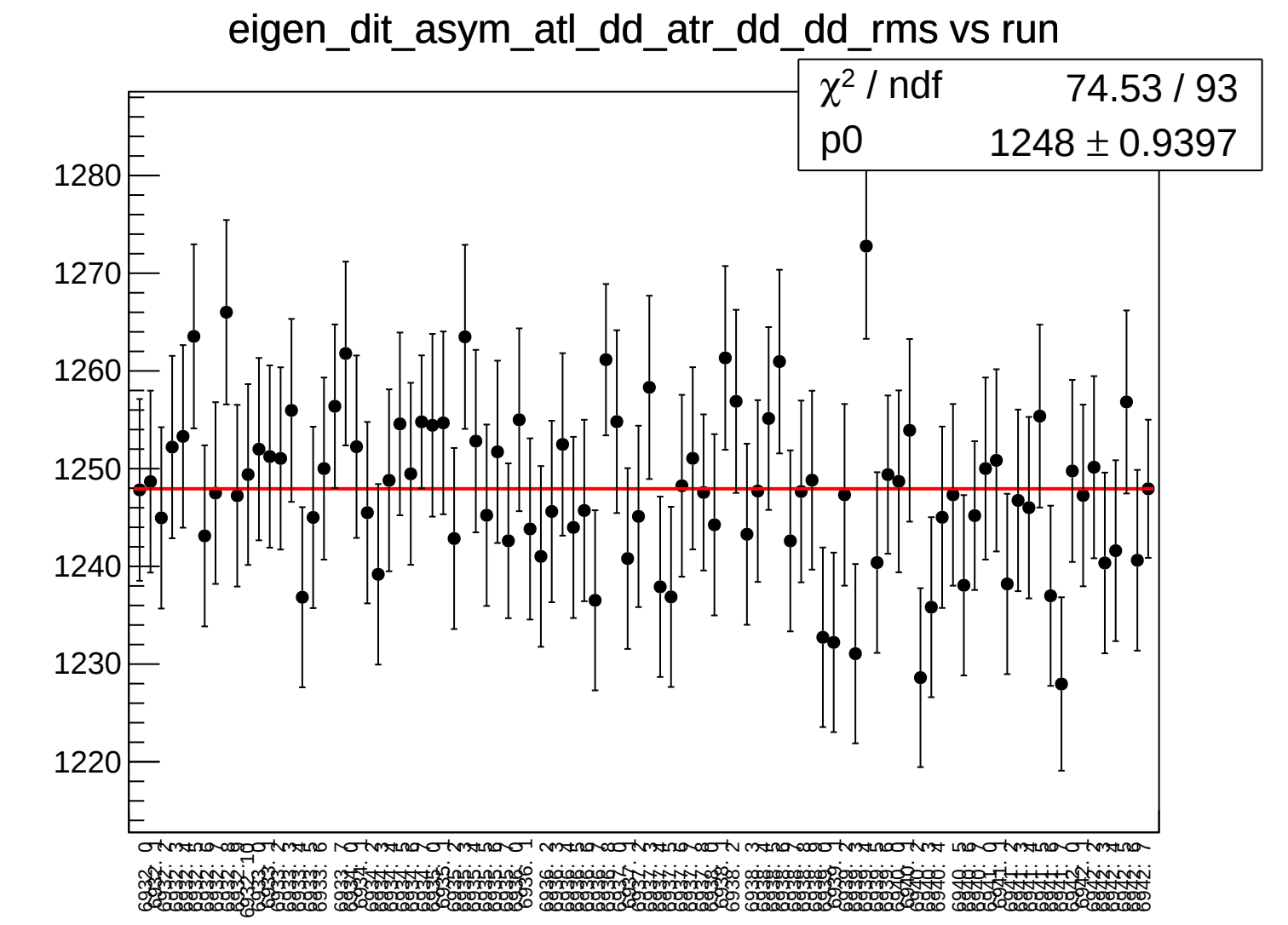

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 84.4 / 93
p0 −365.8 ± 797.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 349.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

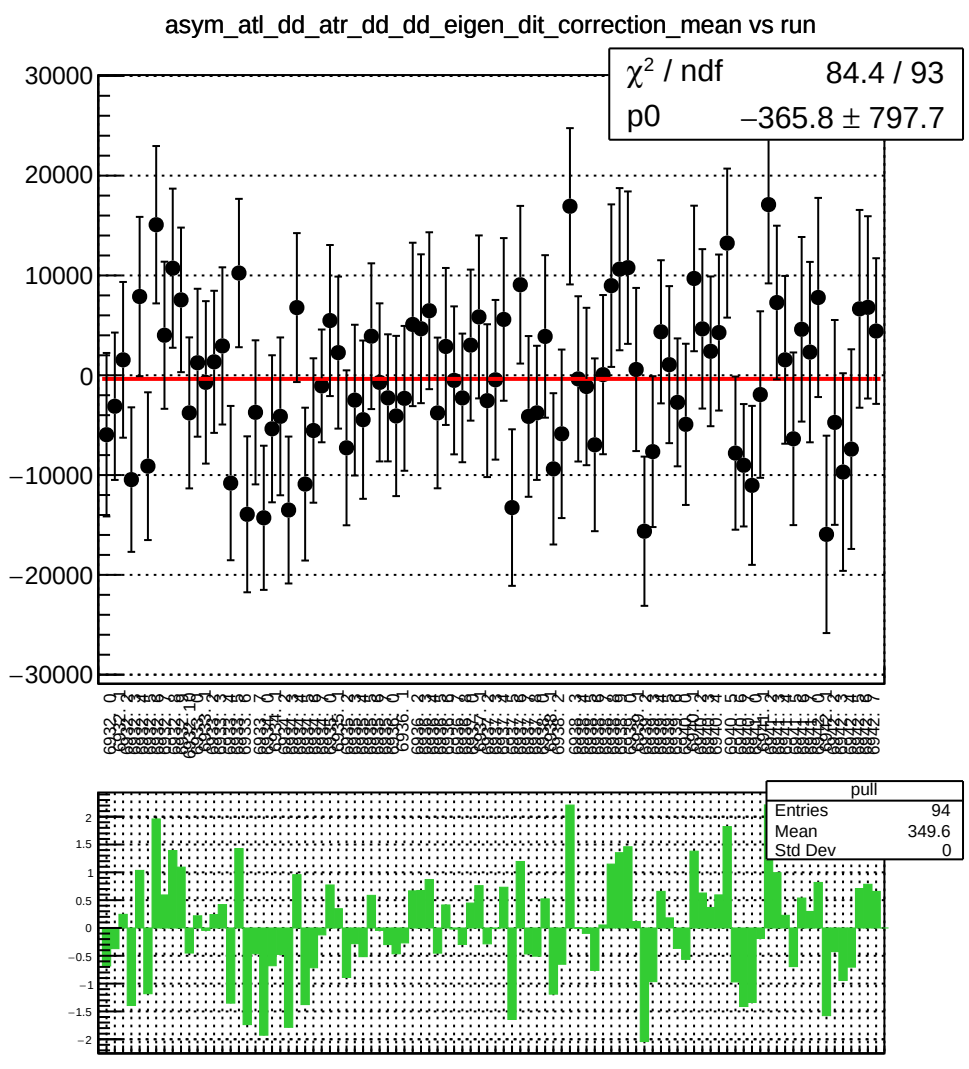

pull1D
Entries 94
Mean 0.007414
Std Dev 0.9475
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

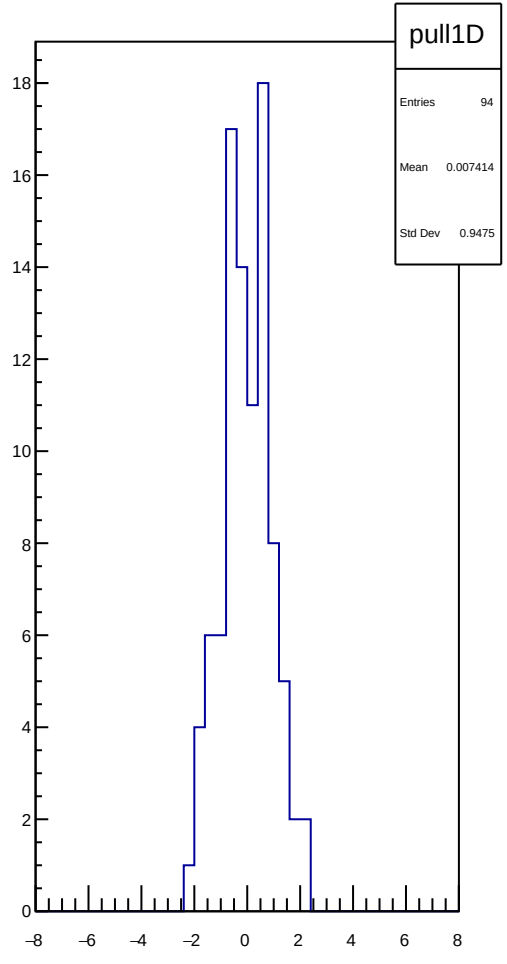

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.064e+04 / 93
p0 746.8 ± 0.564
1000
950
900
850
800
750
700
650

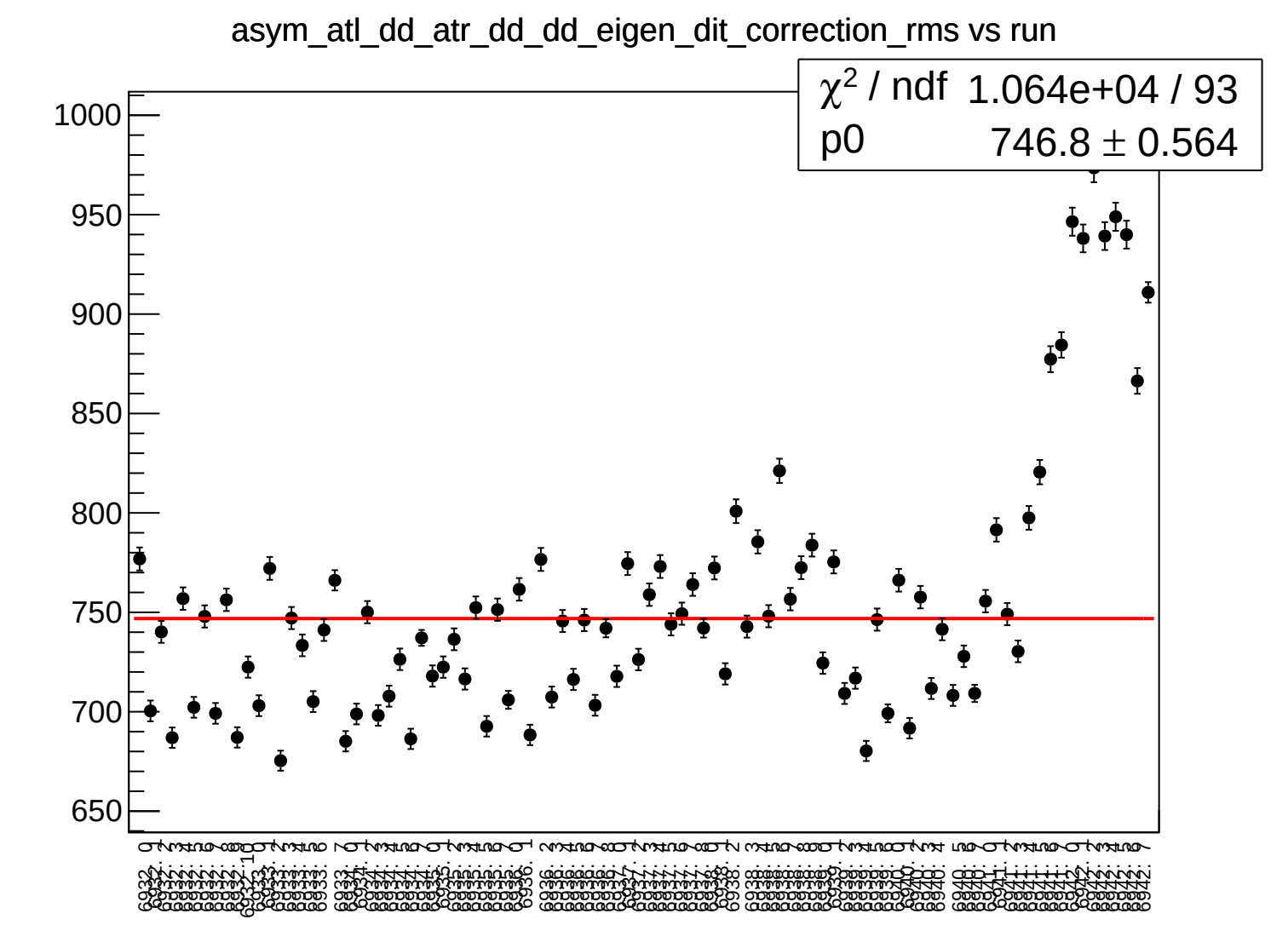

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.42 / 93
p0 2086 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −183.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

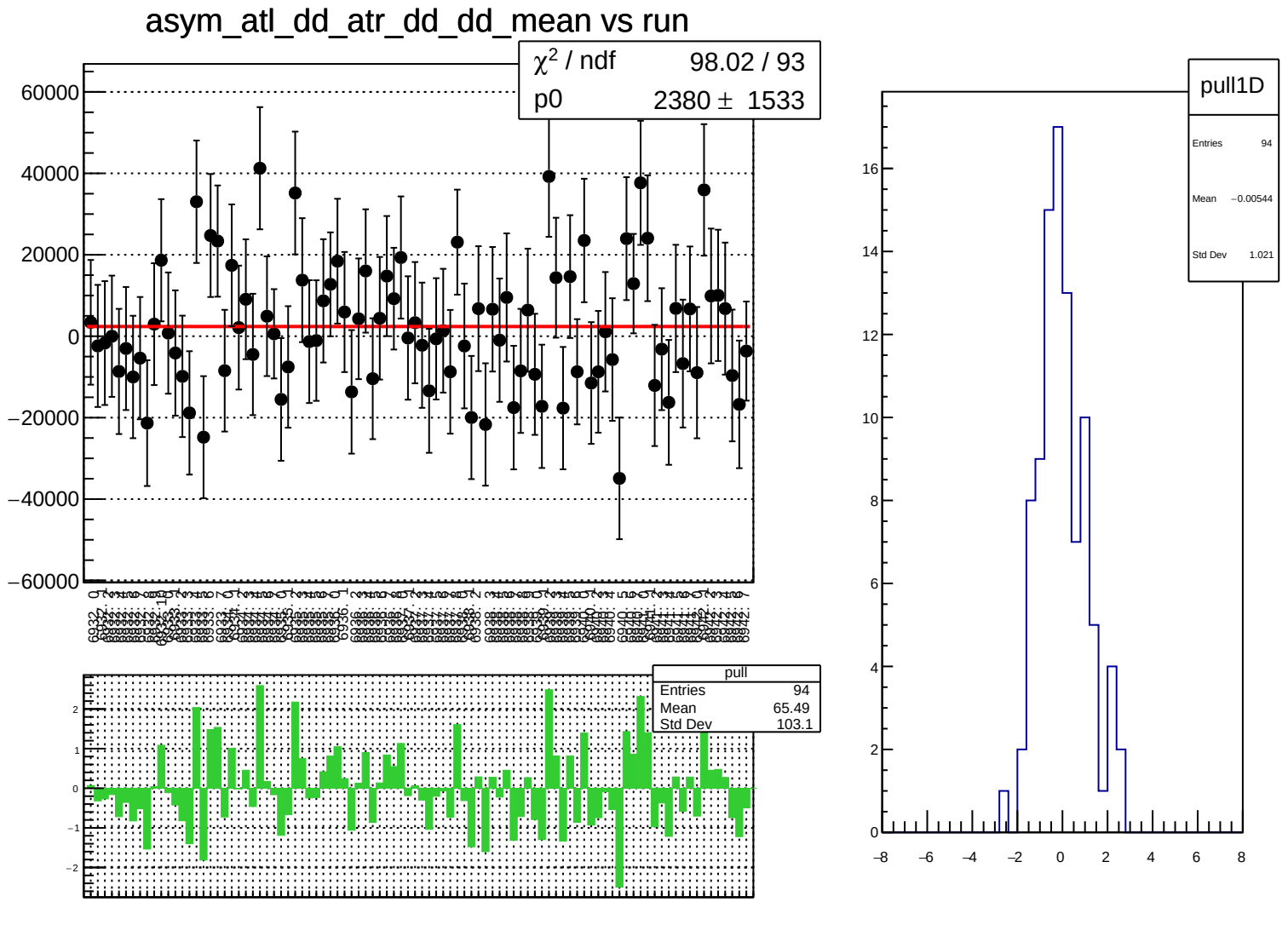

pull1D
Entries 94
Mean −0.004993
Std Dev 0.9307
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

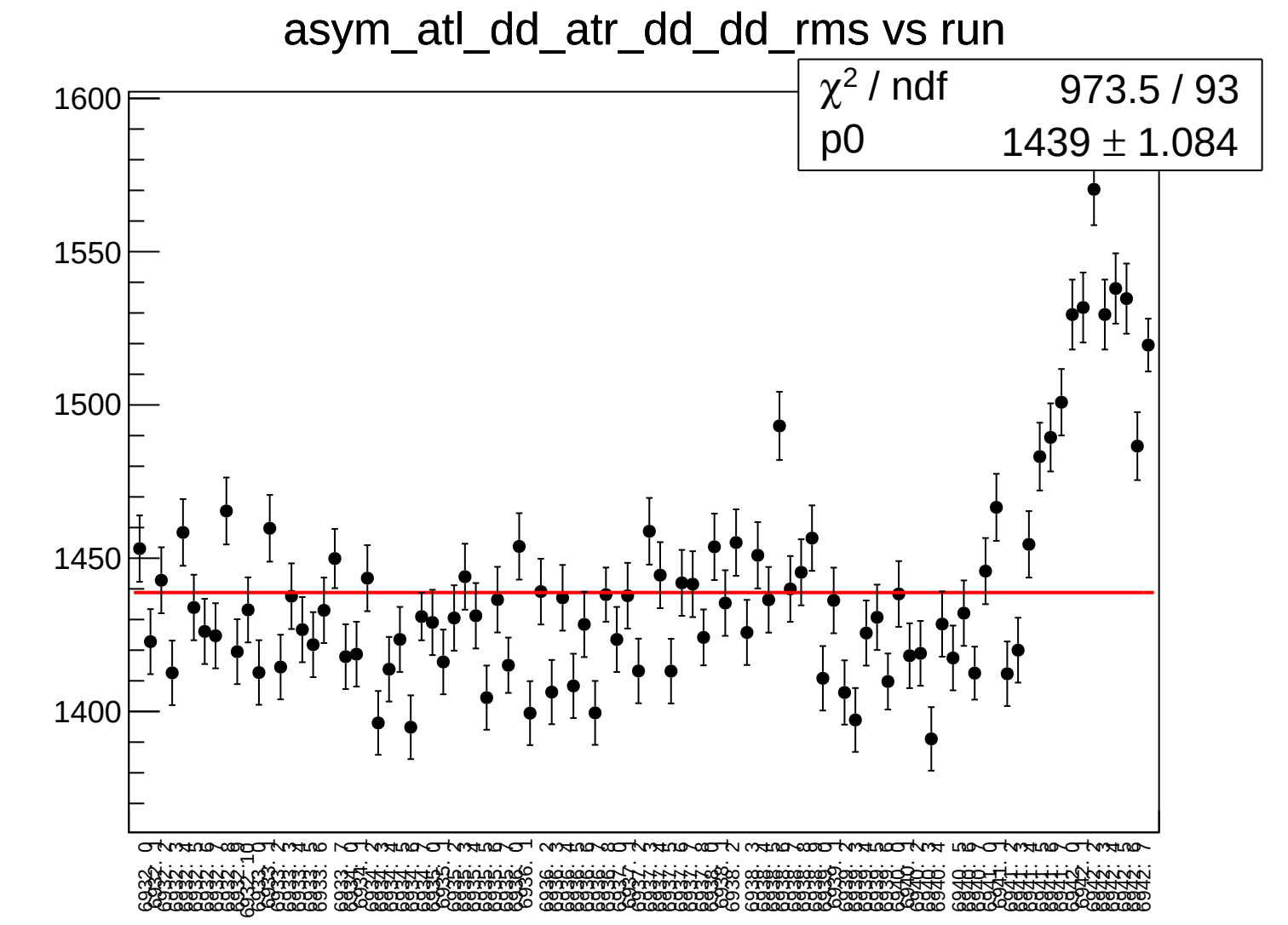

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 74.53 / 93
p0 1248 ± 0.9397
1280
1270
1260
1250
1240
1230
1220

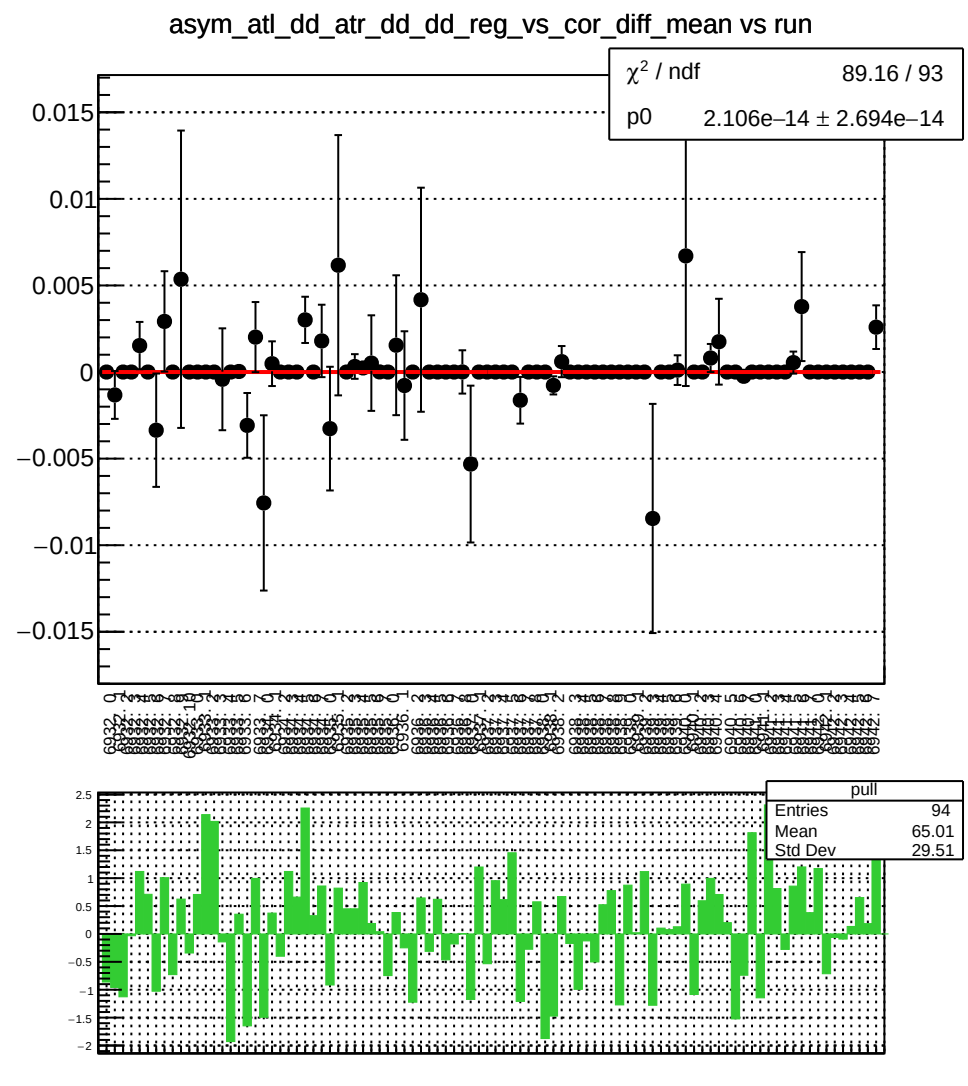

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.4 / 93
p0 −365.8 ± 797.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 349.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

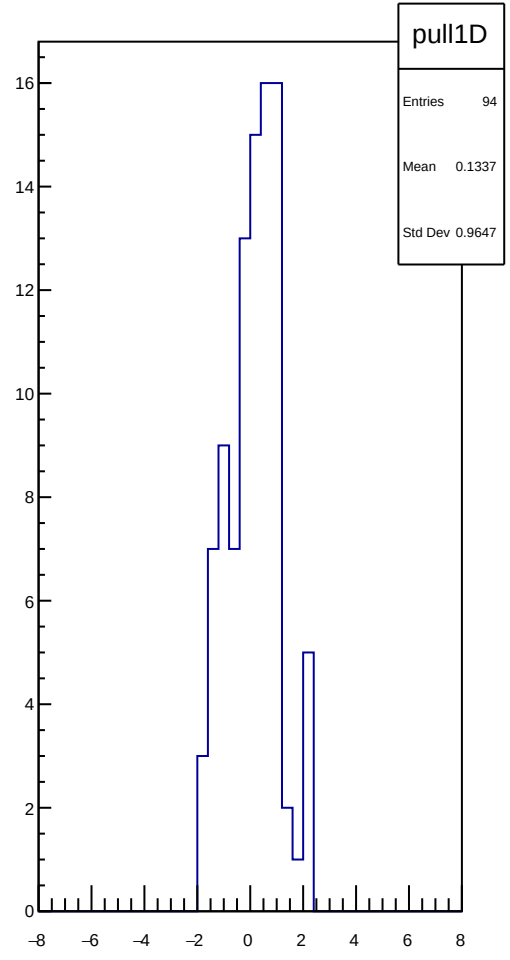

pull1D
Entries 94
Mean 0.007414
Std Dev 0.9475
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

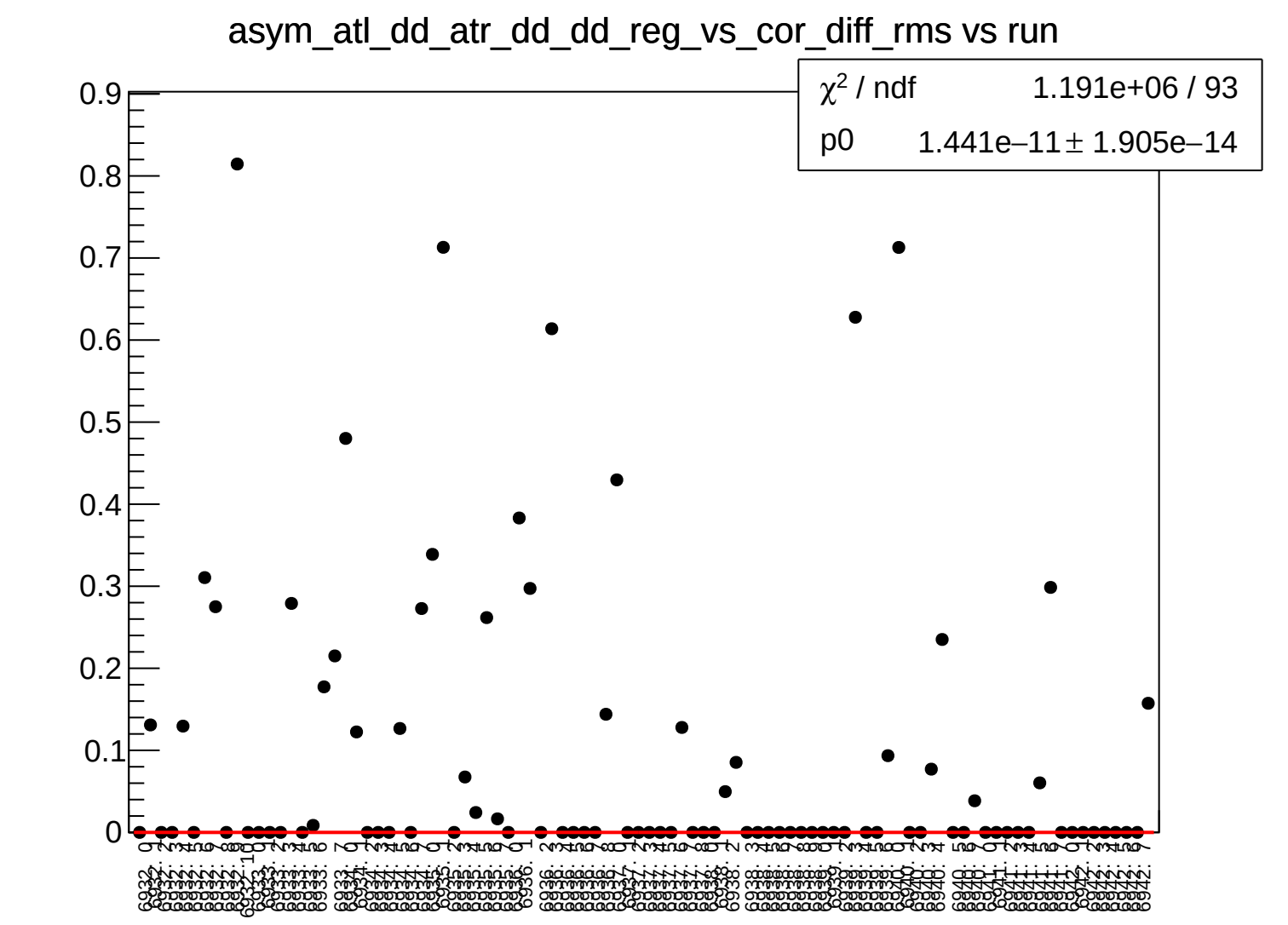

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.064e+04 / 93
p0 746.8 ± 0.564
1000
950
900
850
800
750
700
650

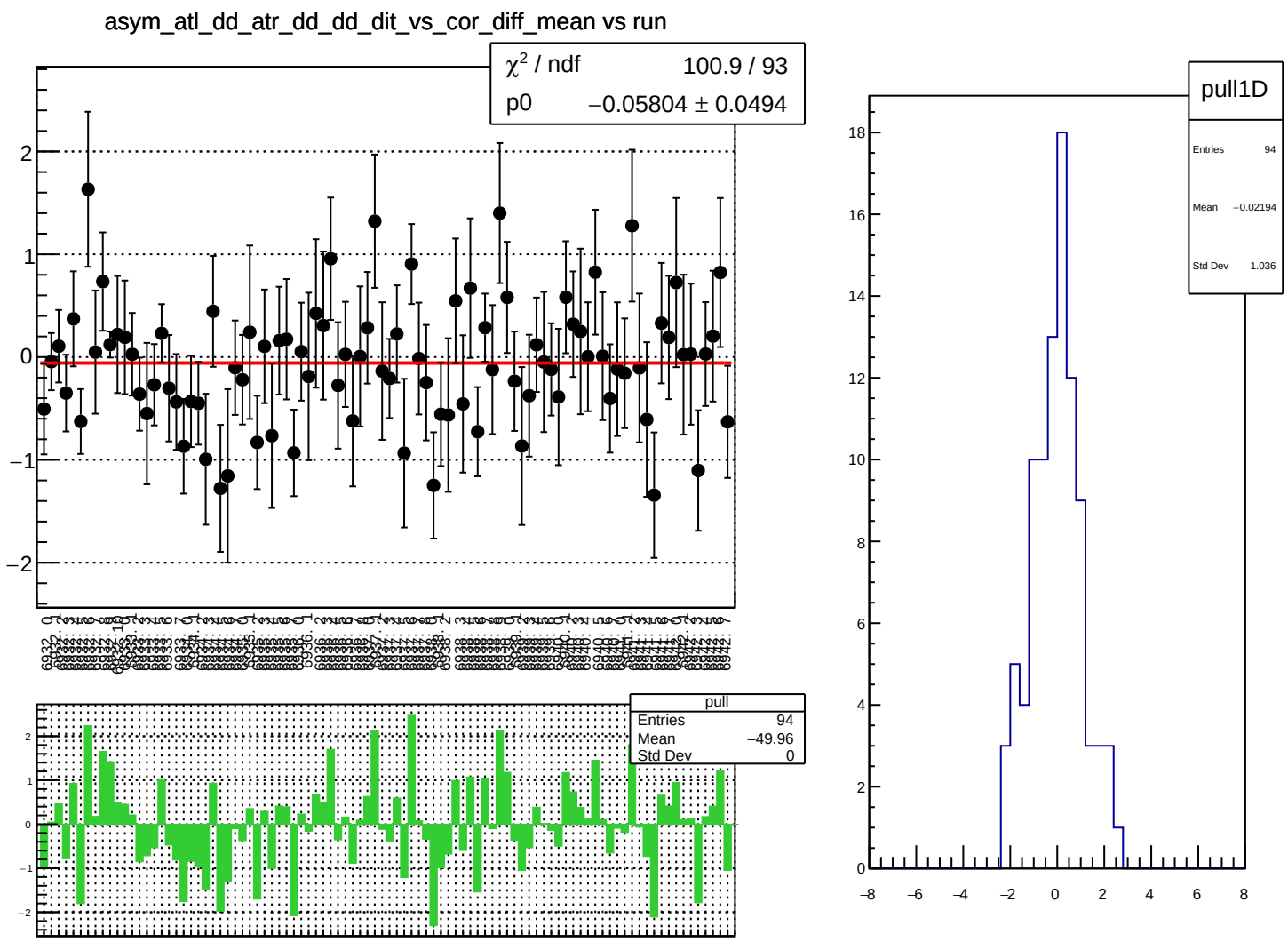

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 98.02 / 93
p0 2380 ± 1533
pull
Entries 94
Mean 65.49
Std Dev 103.1
pull1D
Entries 94
Mean −0.00544
Std Dev 1.021

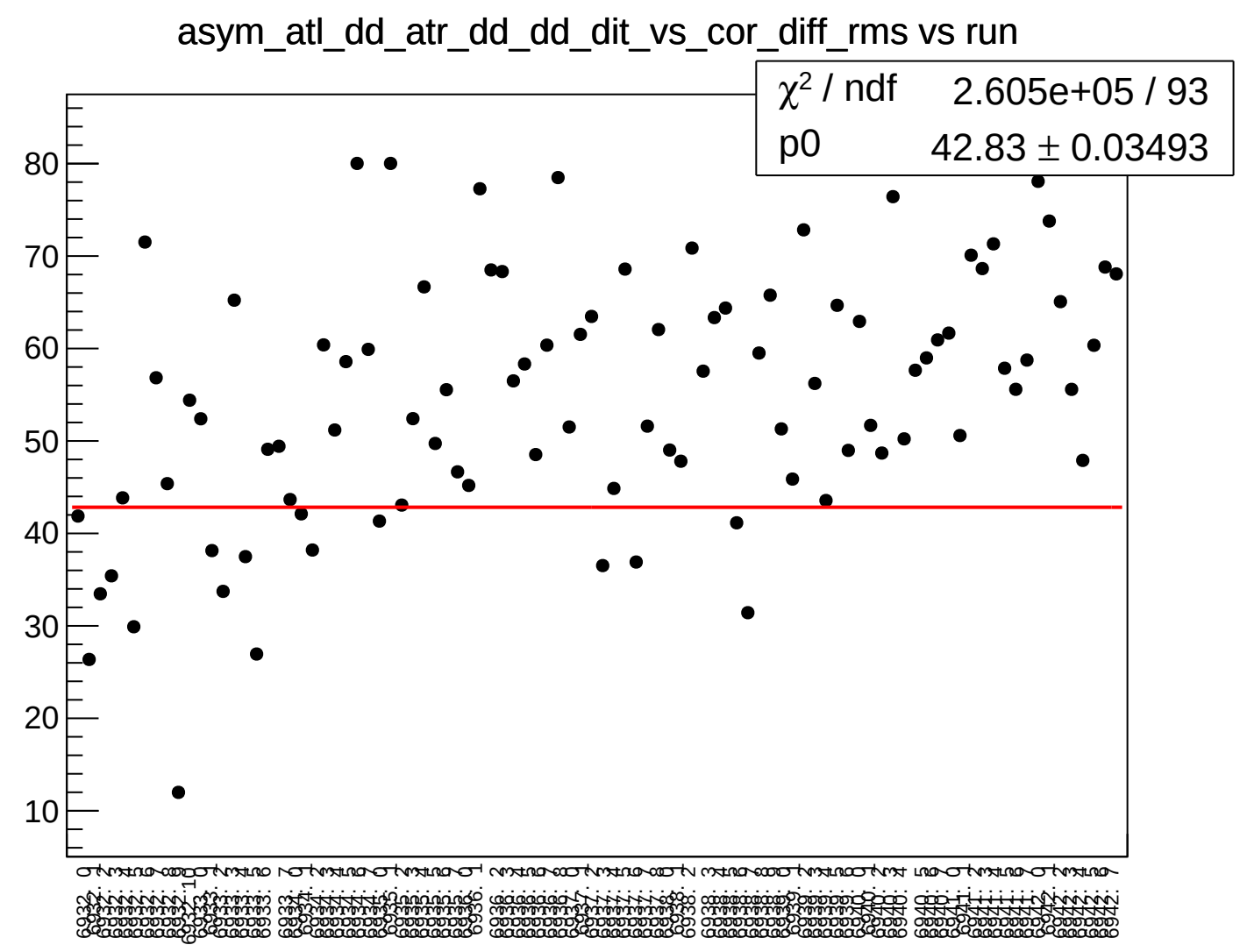

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 973.5 / 93
p0 1439 ± 1.084
1600
1550
1500
1450
1400

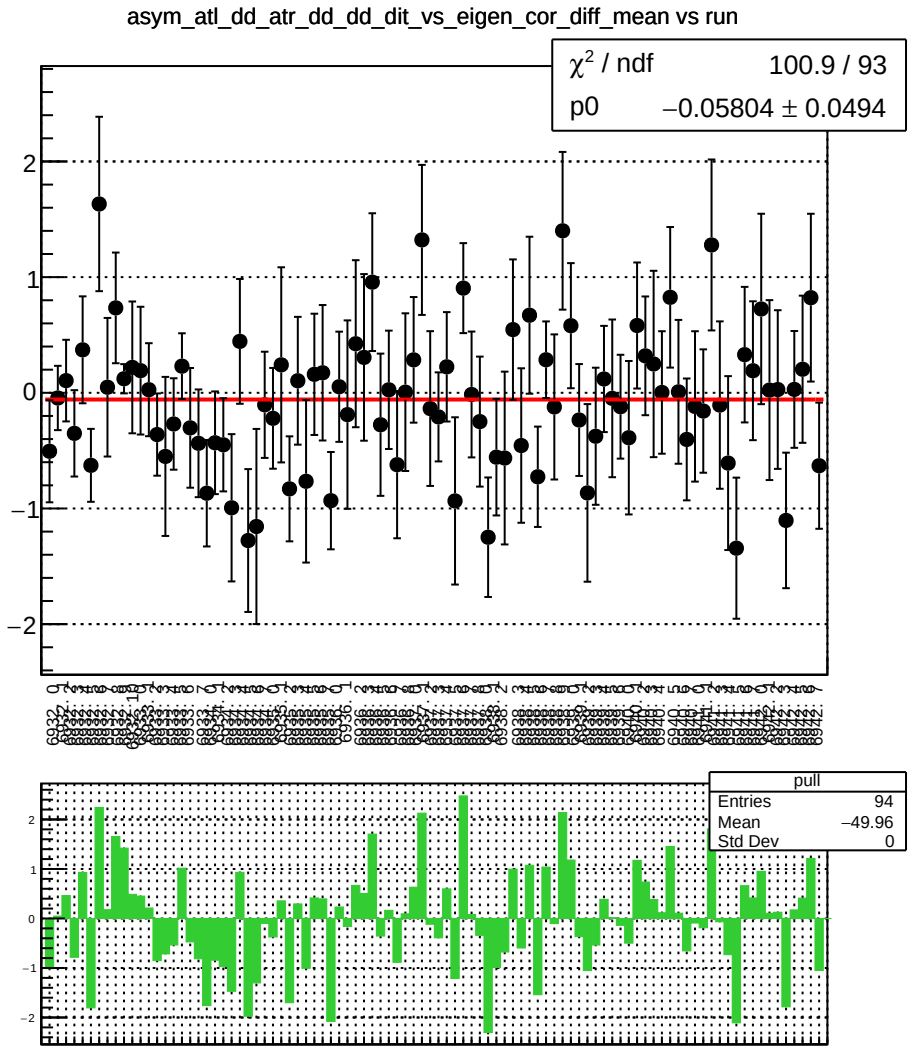

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.16 / 93
p0 2.106e−14 ± 2.694e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 65.01
Std Dev 29.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

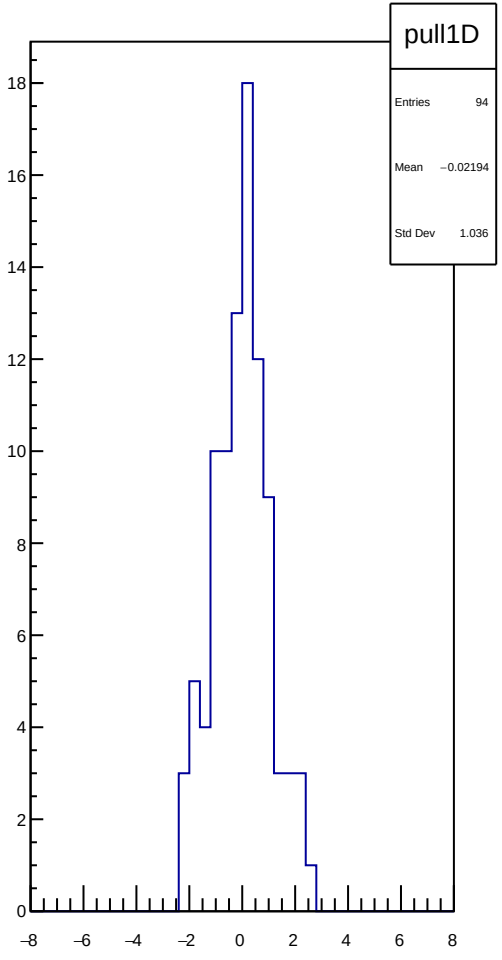

pull1D
Entries 94
Mean 0.1337
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

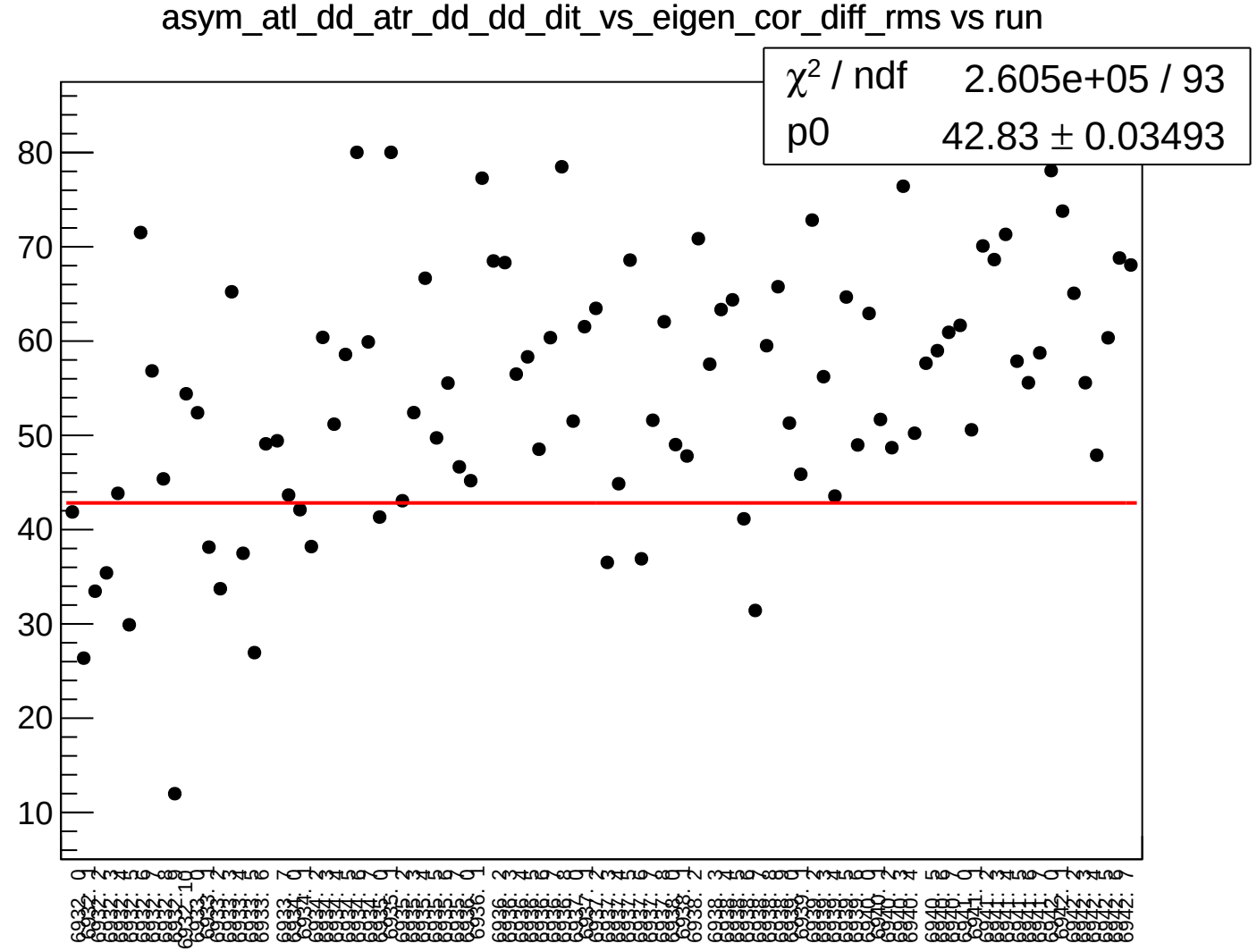

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.191e+06 / 93
p0 1.441e−11 ± 1.905e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

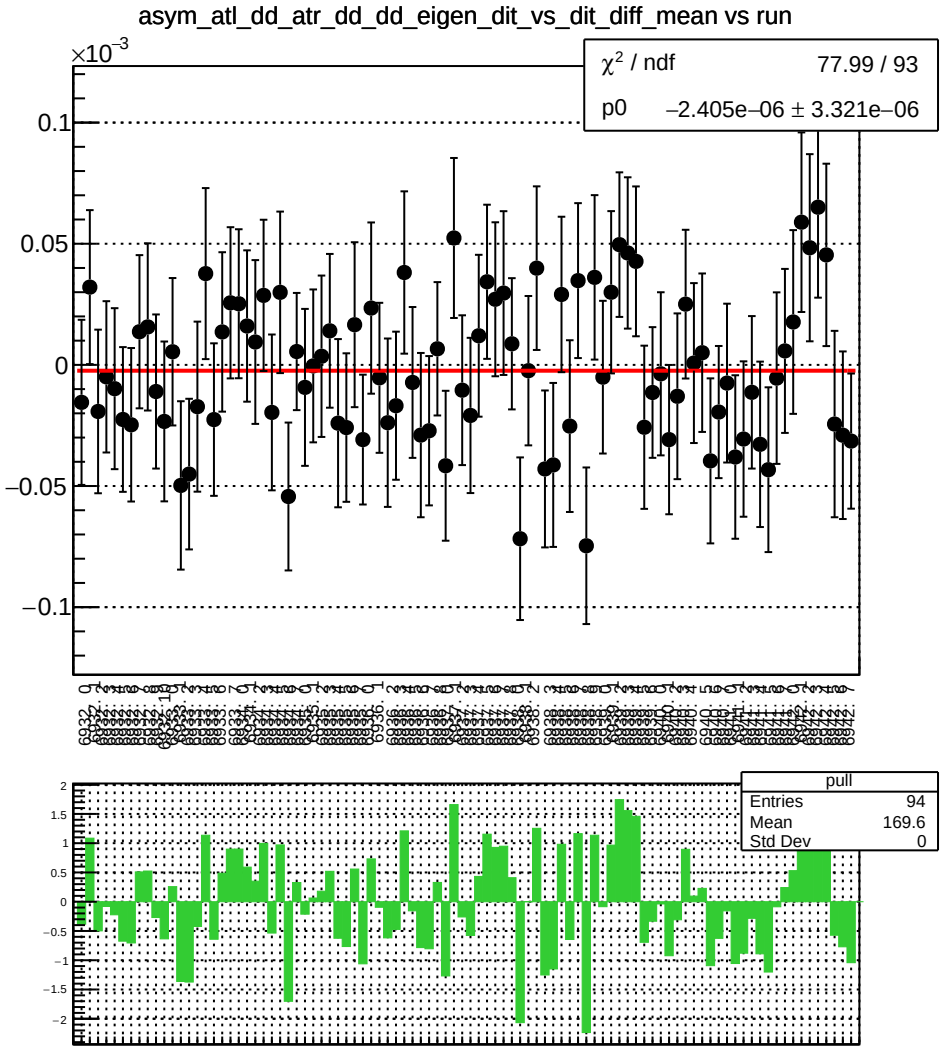

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05804 ± 0.0494
pull
Entries 94
Mean −49.96
Std Dev 0
pull1D
Entries 94
Mean −0.02194
Std Dev 1.036

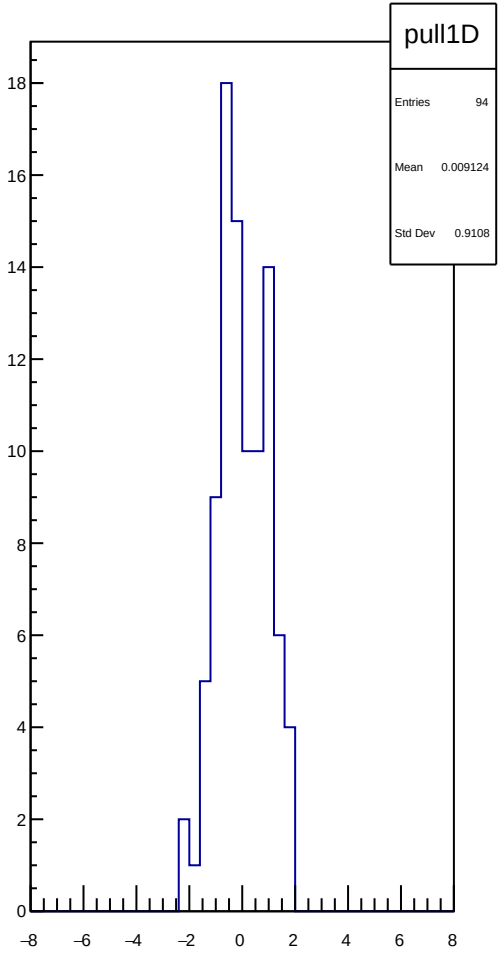

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

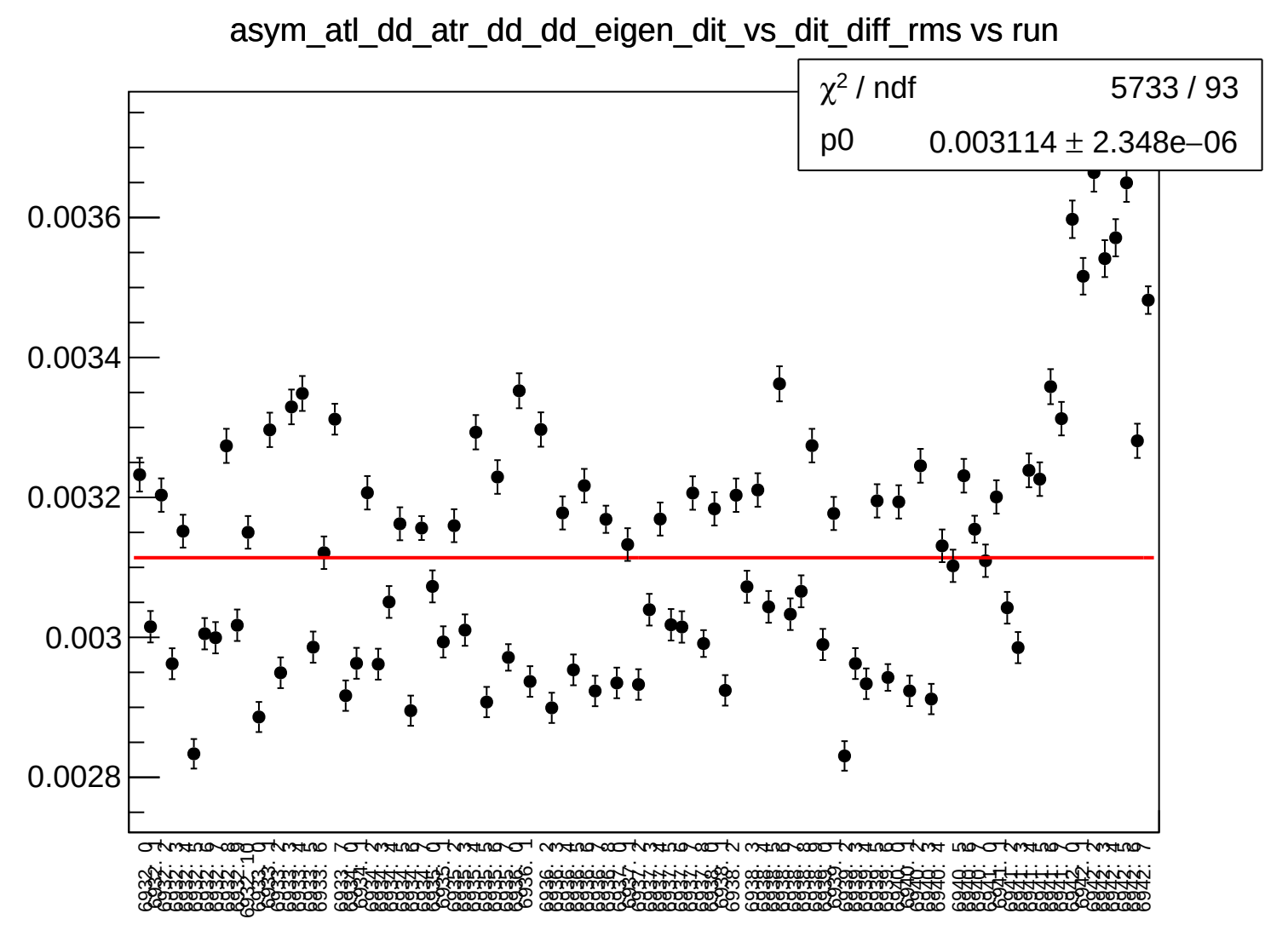

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05804 ± 0.0494
pull
Entries 94
Mean −49.96
Std Dev 0

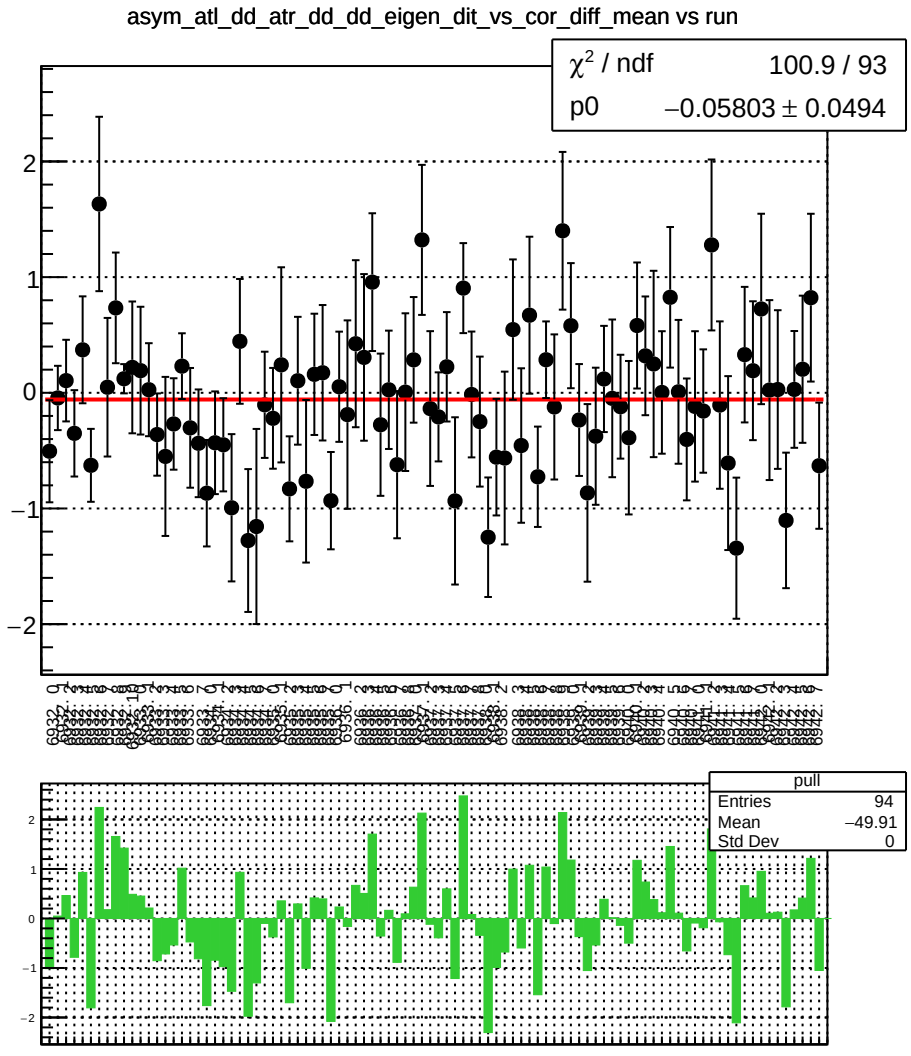

pull1D
Entries 94
Mean −0.02194
Std Dev 1.036

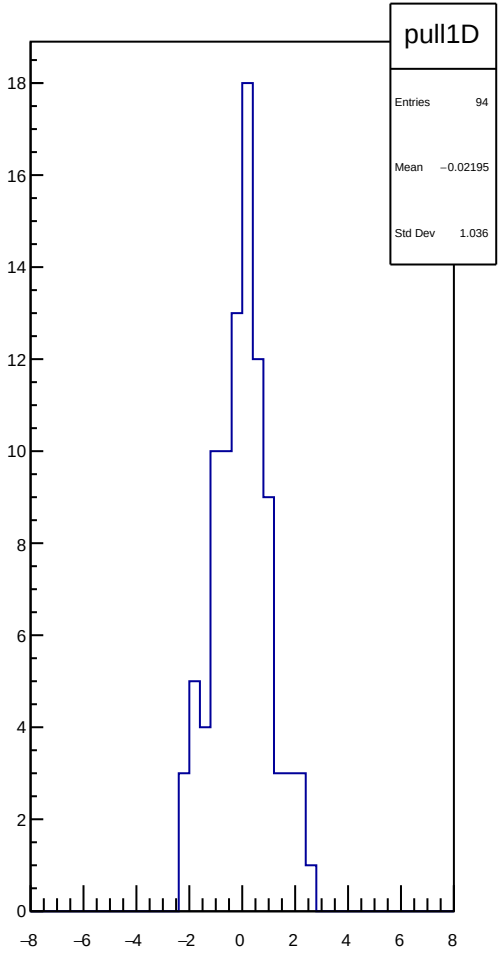

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

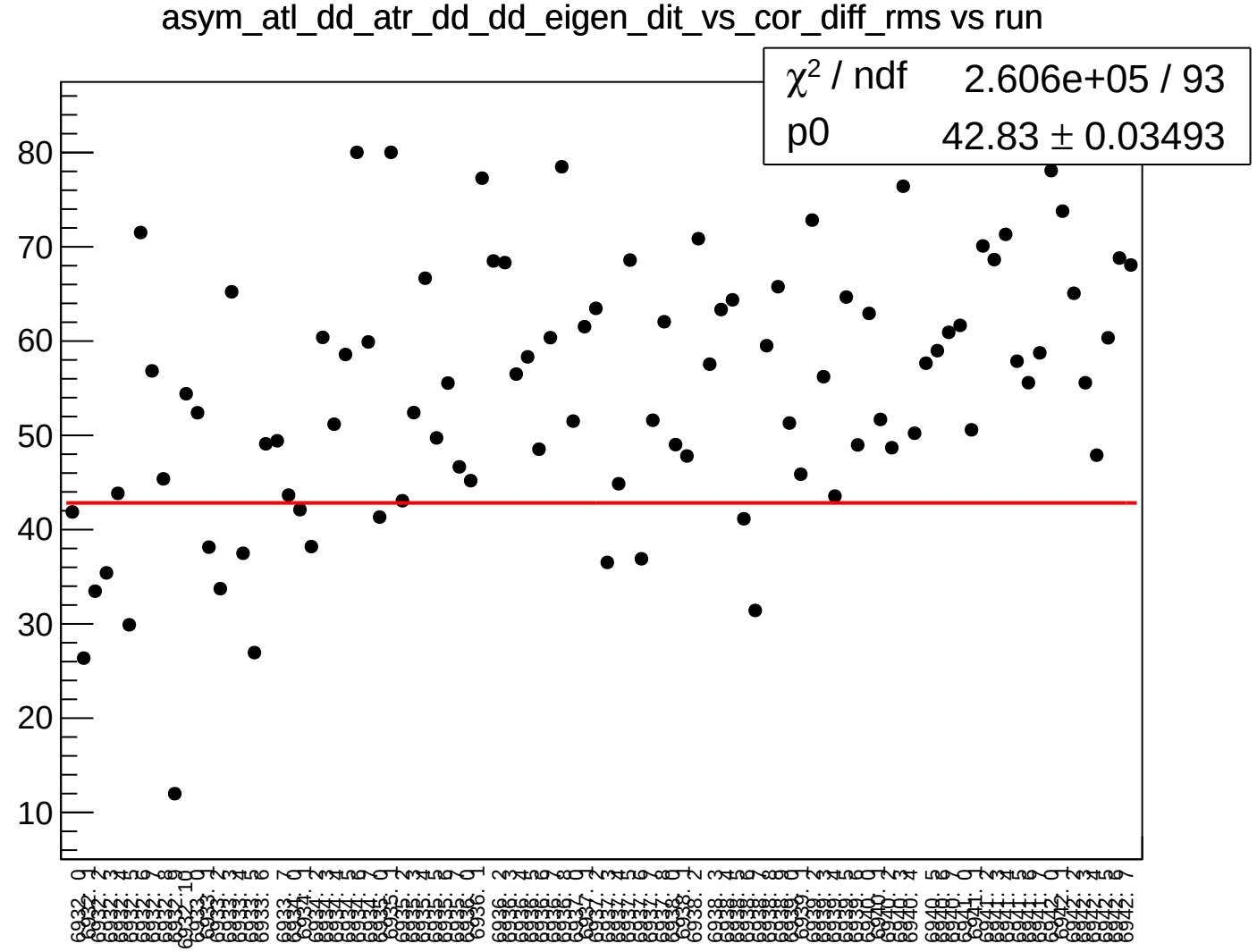

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.99 / 93
p0 −2.405e−06 ± 3.321e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 169.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

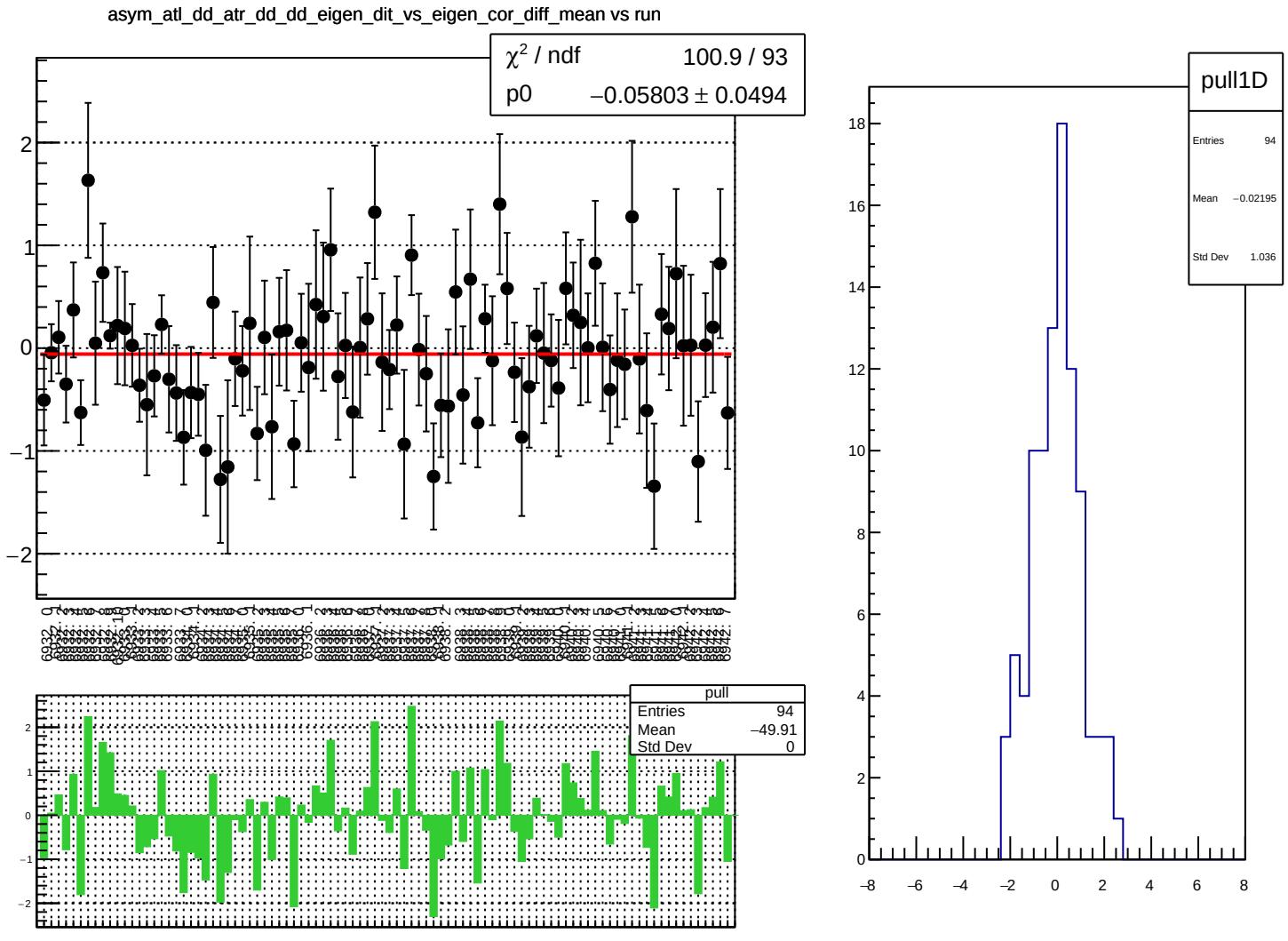

pull1D
Entries 94
Mean 0.009124
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

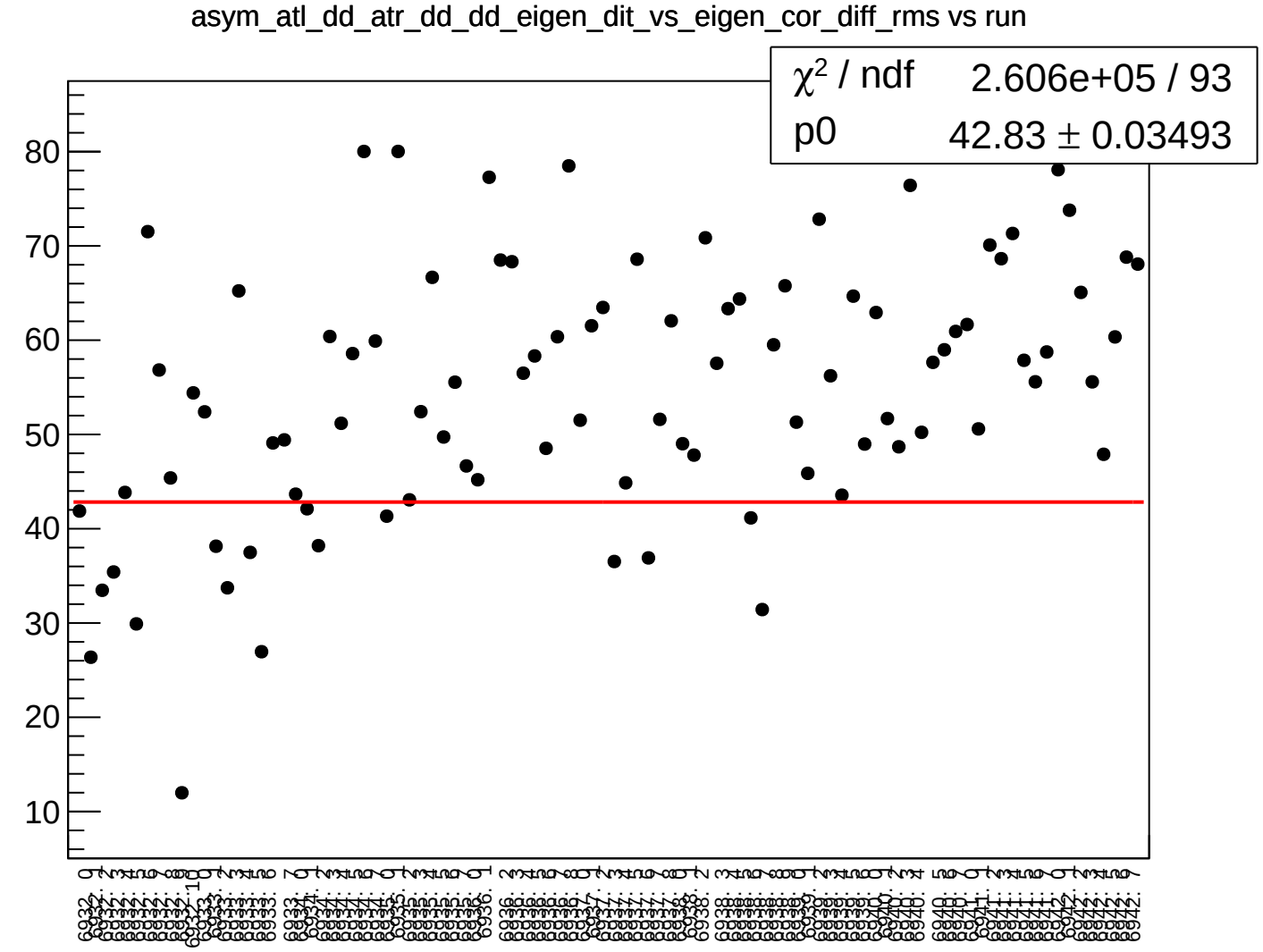

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5733 / 93
p0 0.003114 ± 2.348e−06
0.0036
0.0034
0.0032
0.003
0.0028

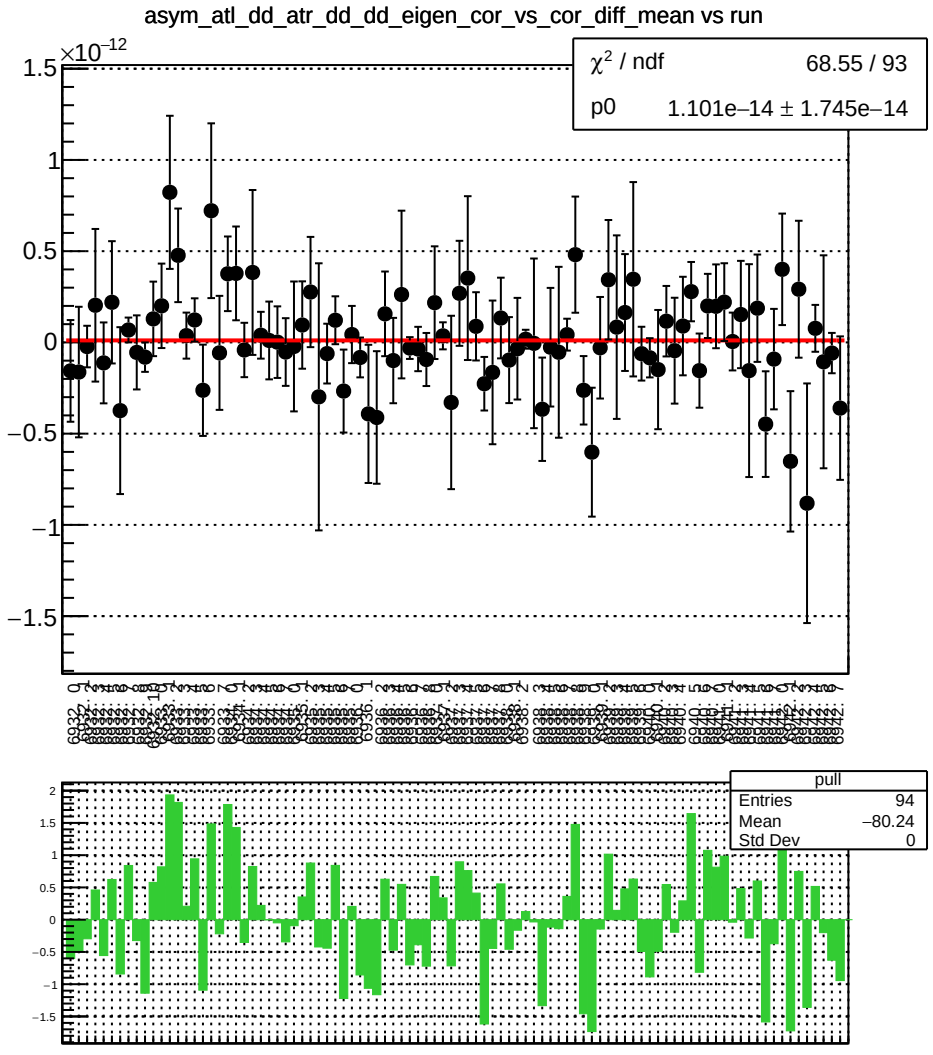

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05803 ± 0.0494
pull
Entries 94
Mean −49.91
Std Dev 0

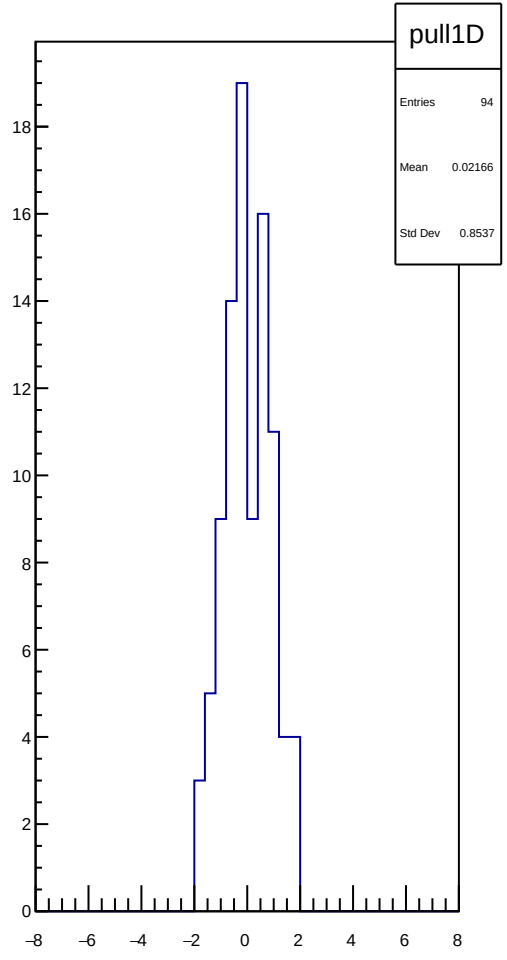

pull1D
Entries 94
Mean −0.02195
Std Dev 1.036

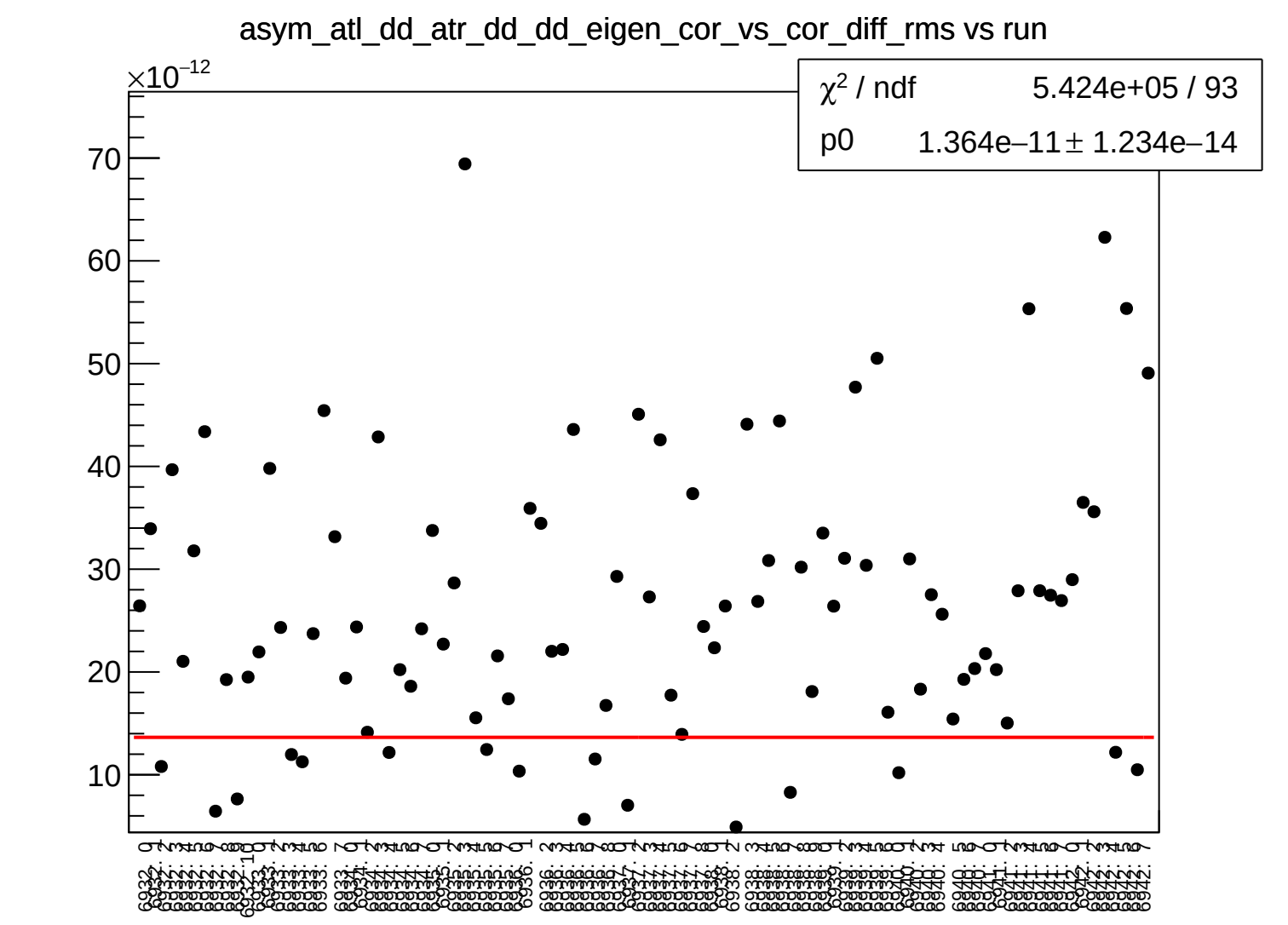

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.606e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

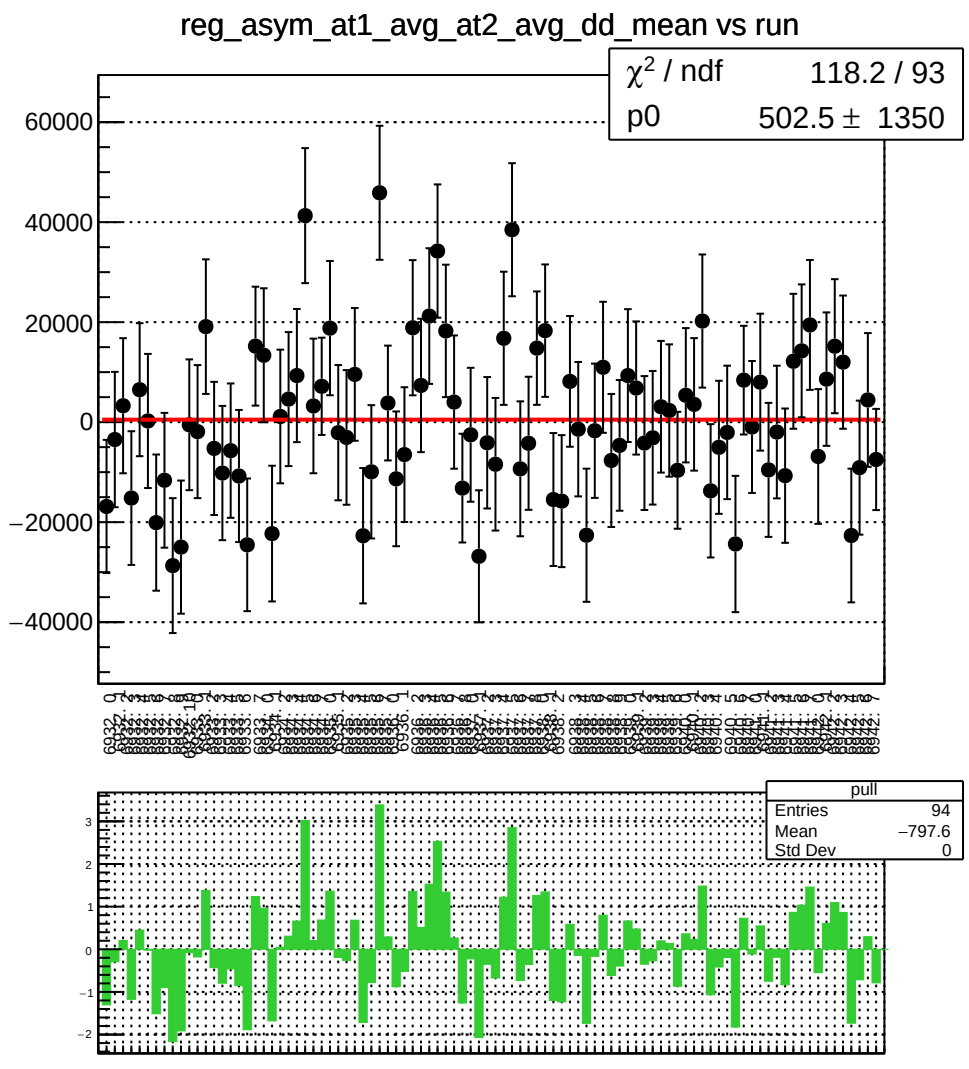

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05803 ± 0.0494
pull
Entries 94
Mean −49.91
Std Dev 0
pull1D
Entries 94
Mean −0.02195
Std Dev 1.036

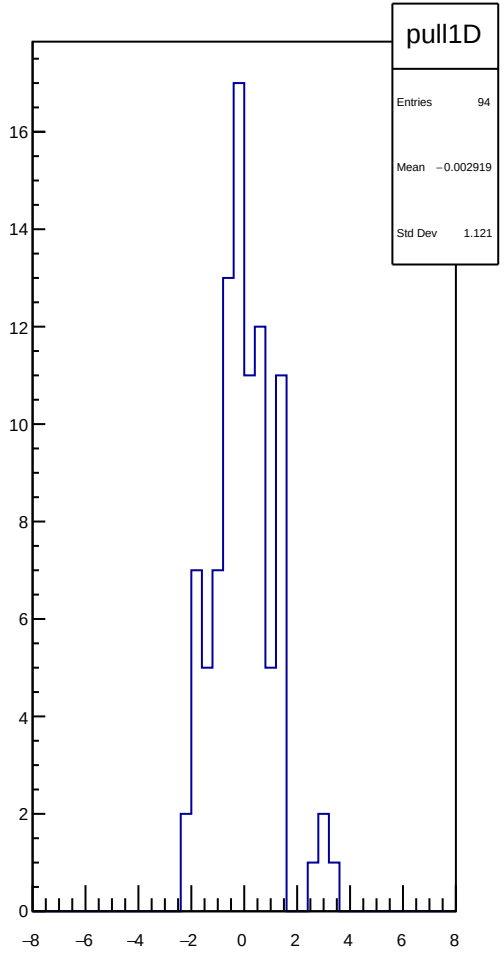

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.606e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

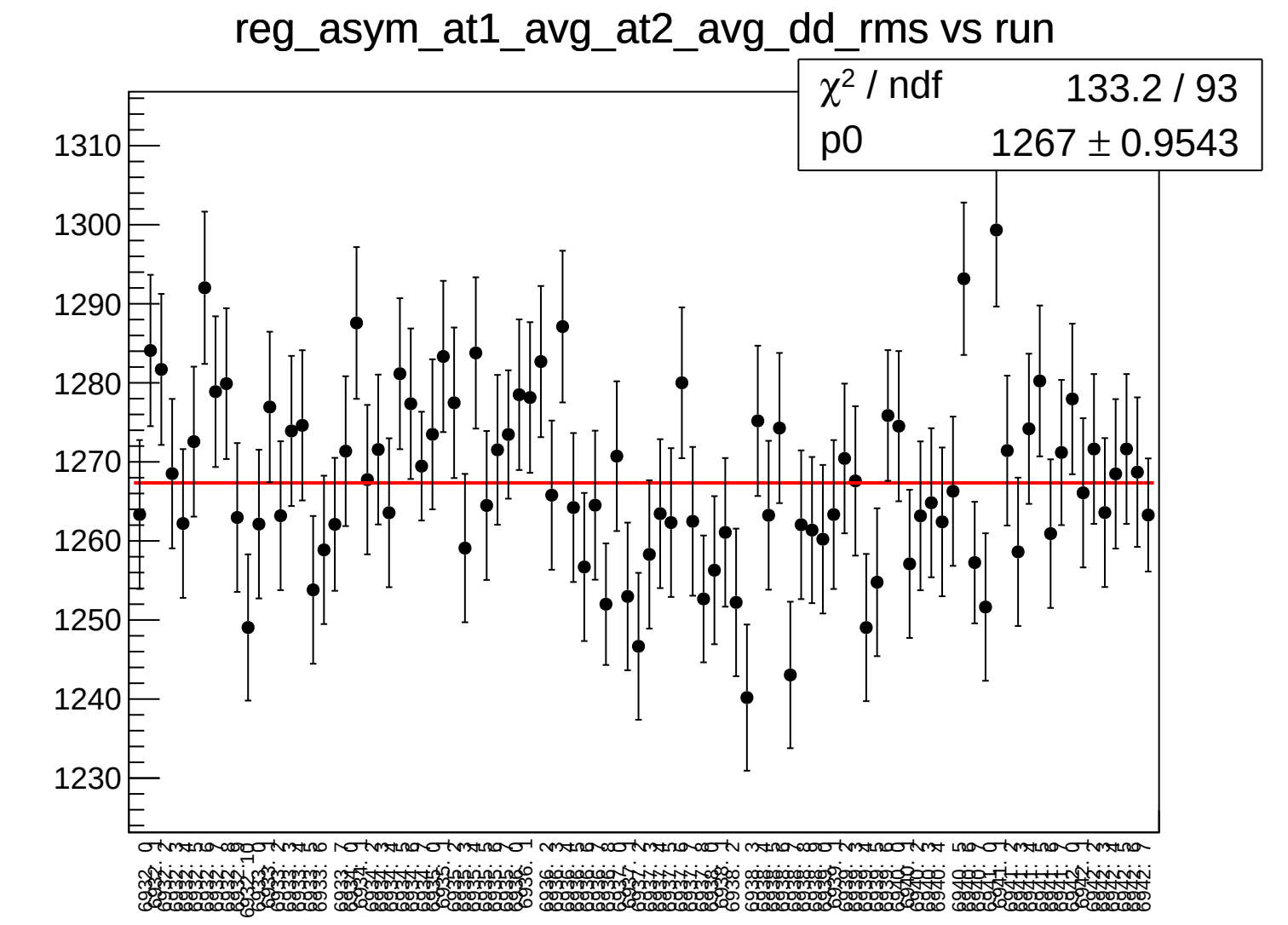

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.55 / 93
p0 1.101e−14 ± 1.745e−14
pull
Entries 94
Mean −80.24
Std Dev 0

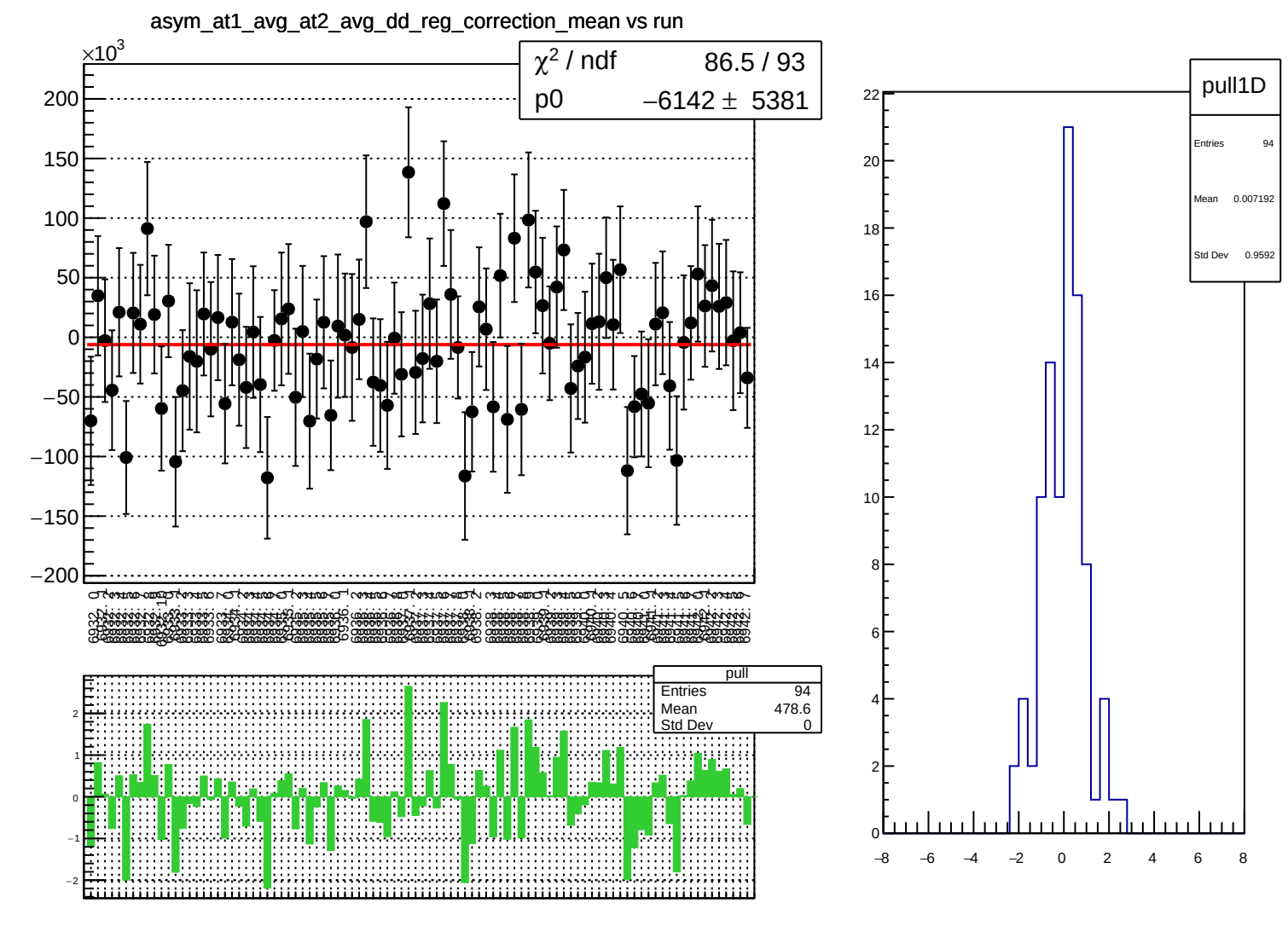

pull1D
Entries 94
Mean 0.02166
Std Dev 0.8537

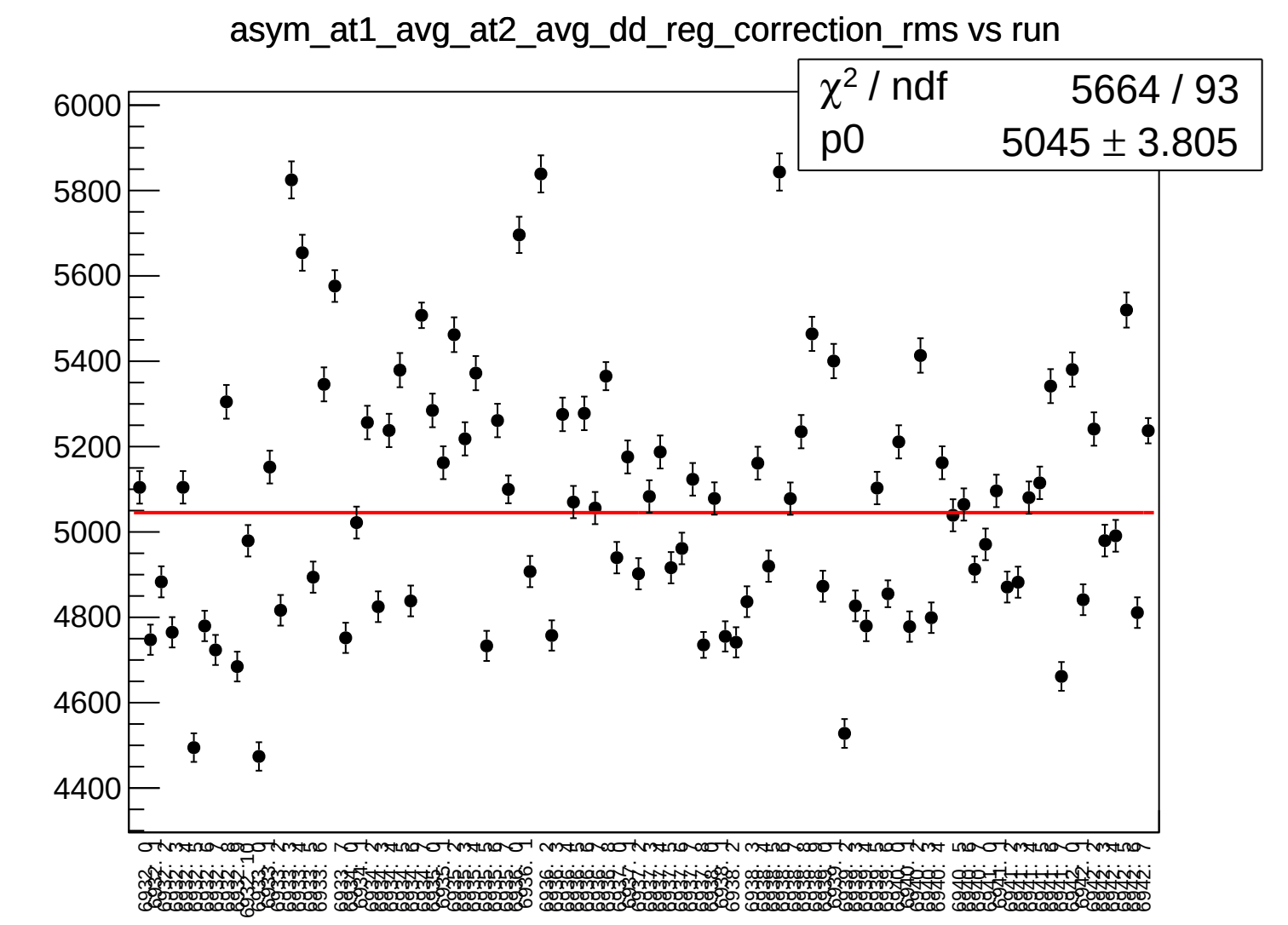

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.424e+05 / 93
p0 1.364e−11 ± 1.234e−14
70
60
50
40
30
20
10

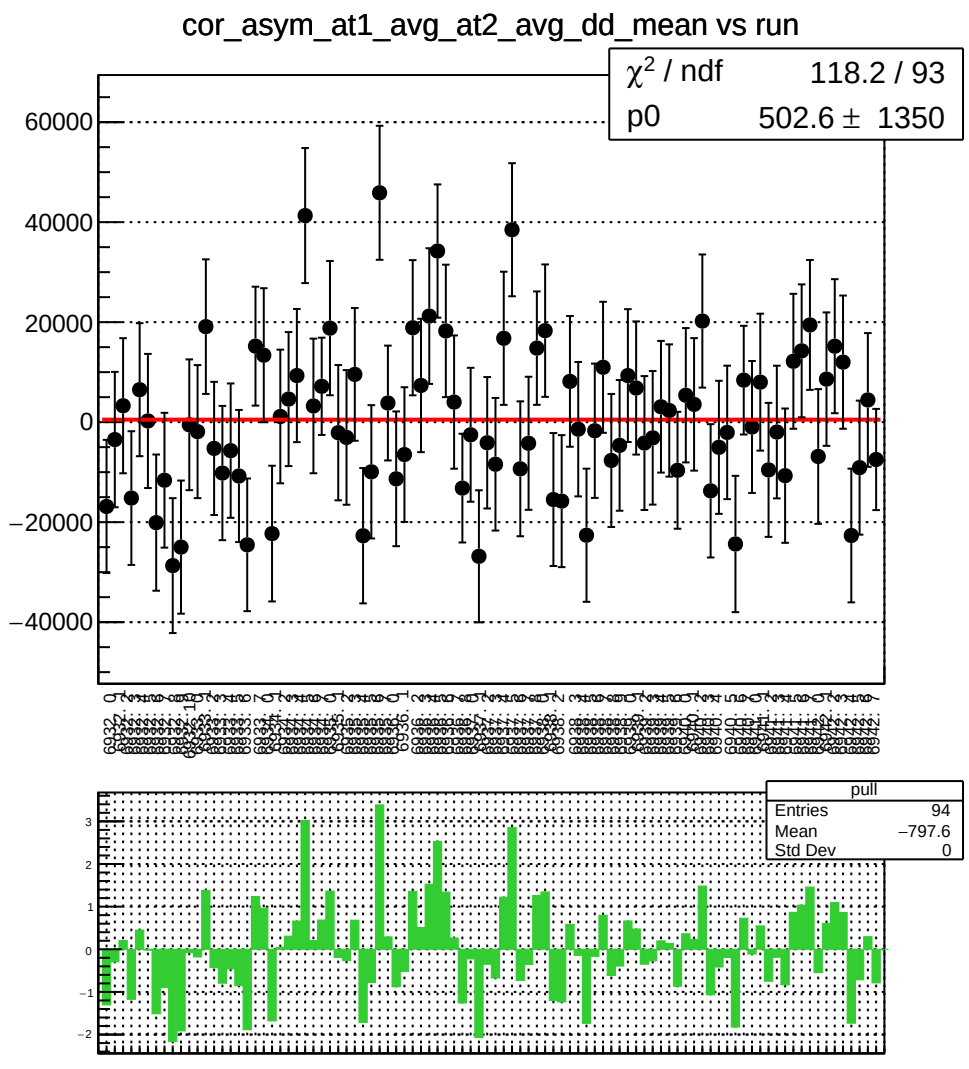

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.5 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

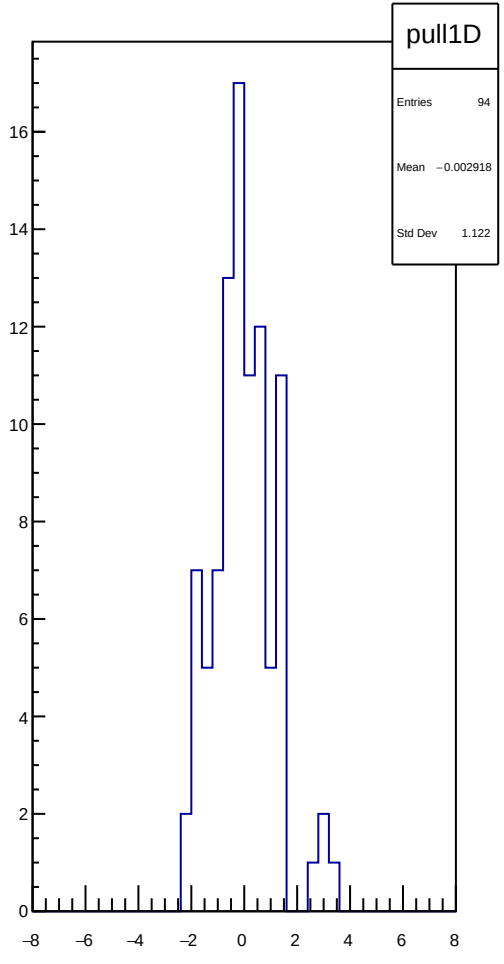

pull1D
Entries 94
Mean −0.002919
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

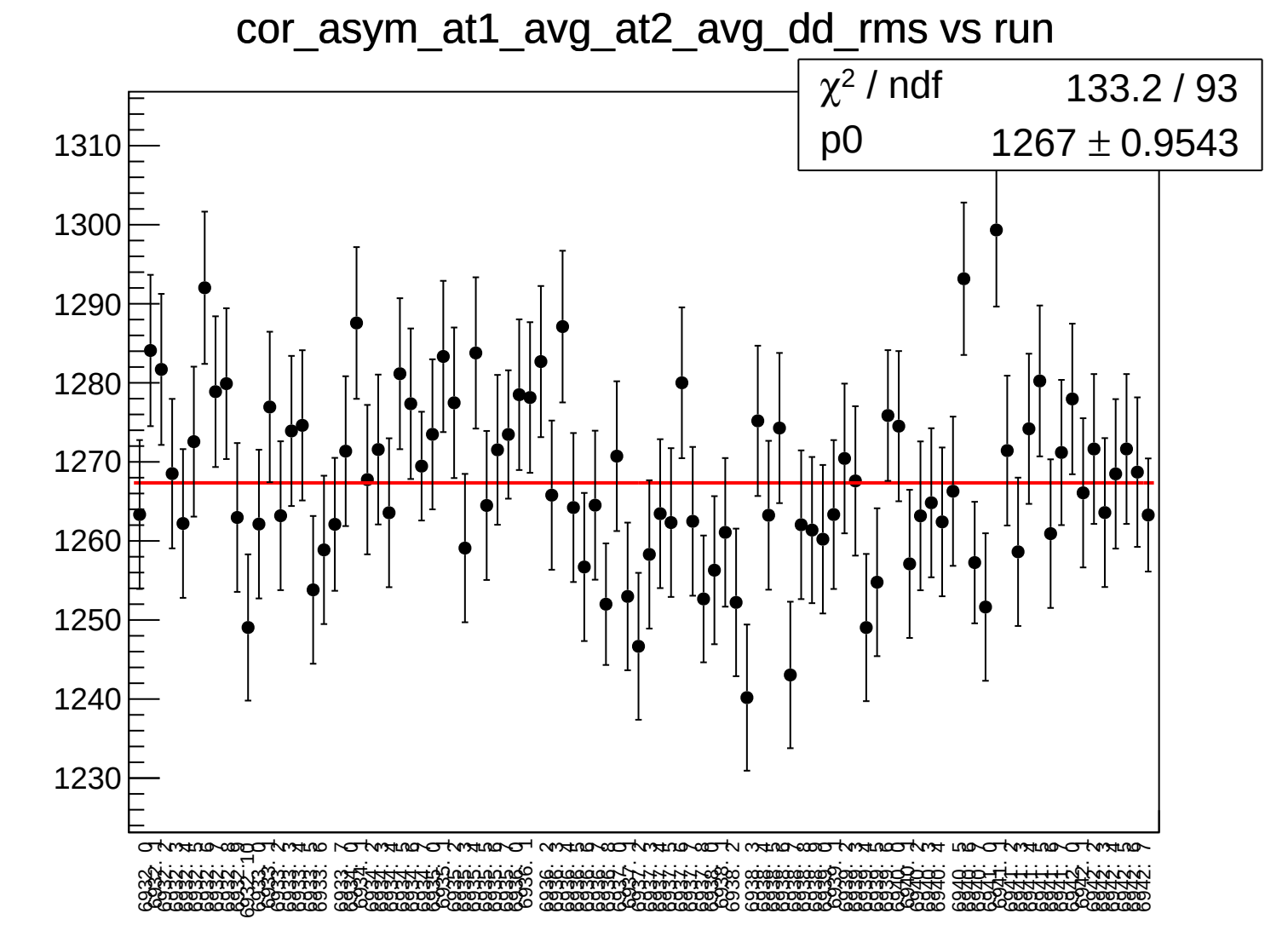

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

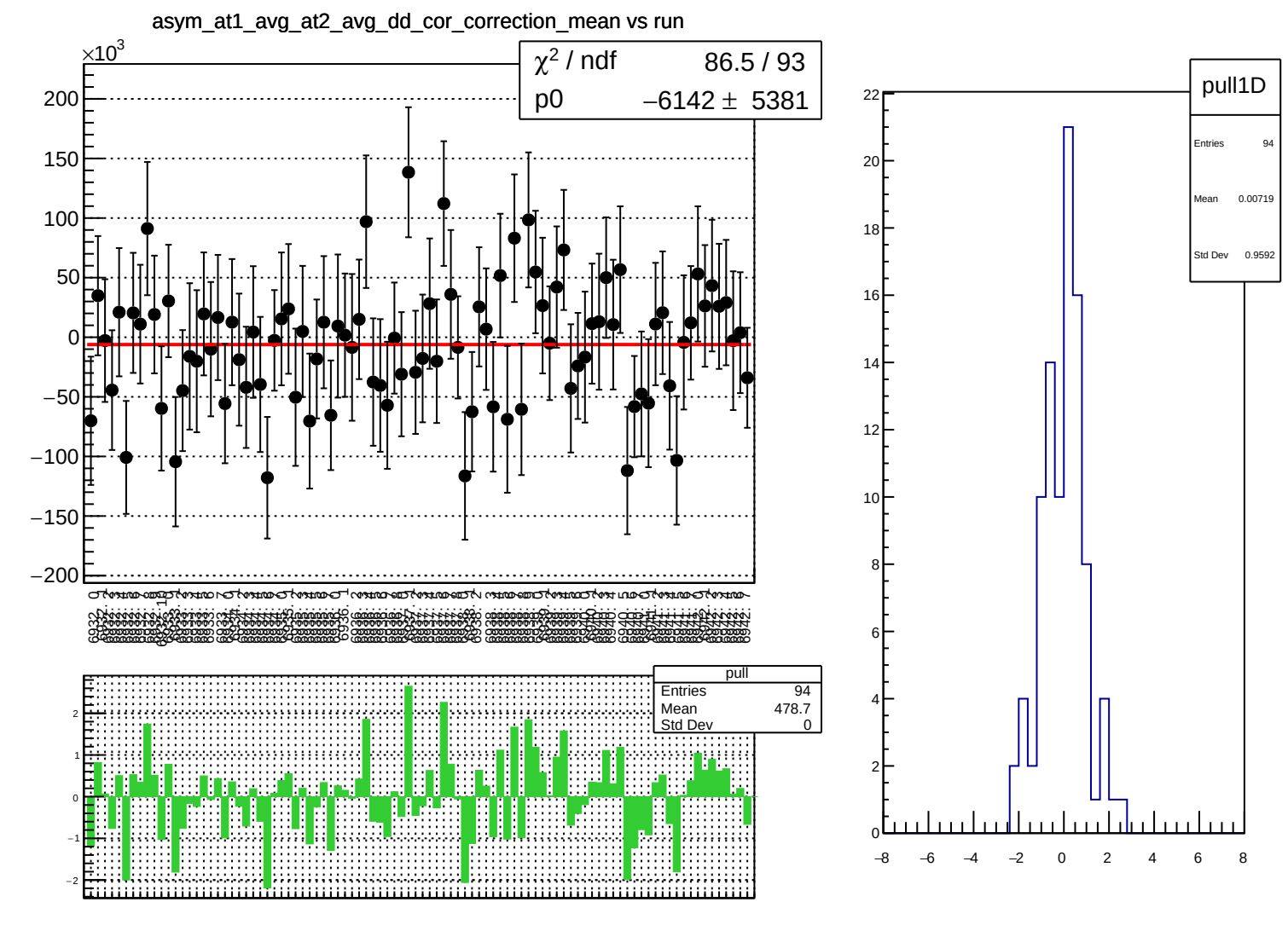

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.6
Std Dev 0
pull1D
Entries 94
Mean 0.007192
Std Dev 0.9592

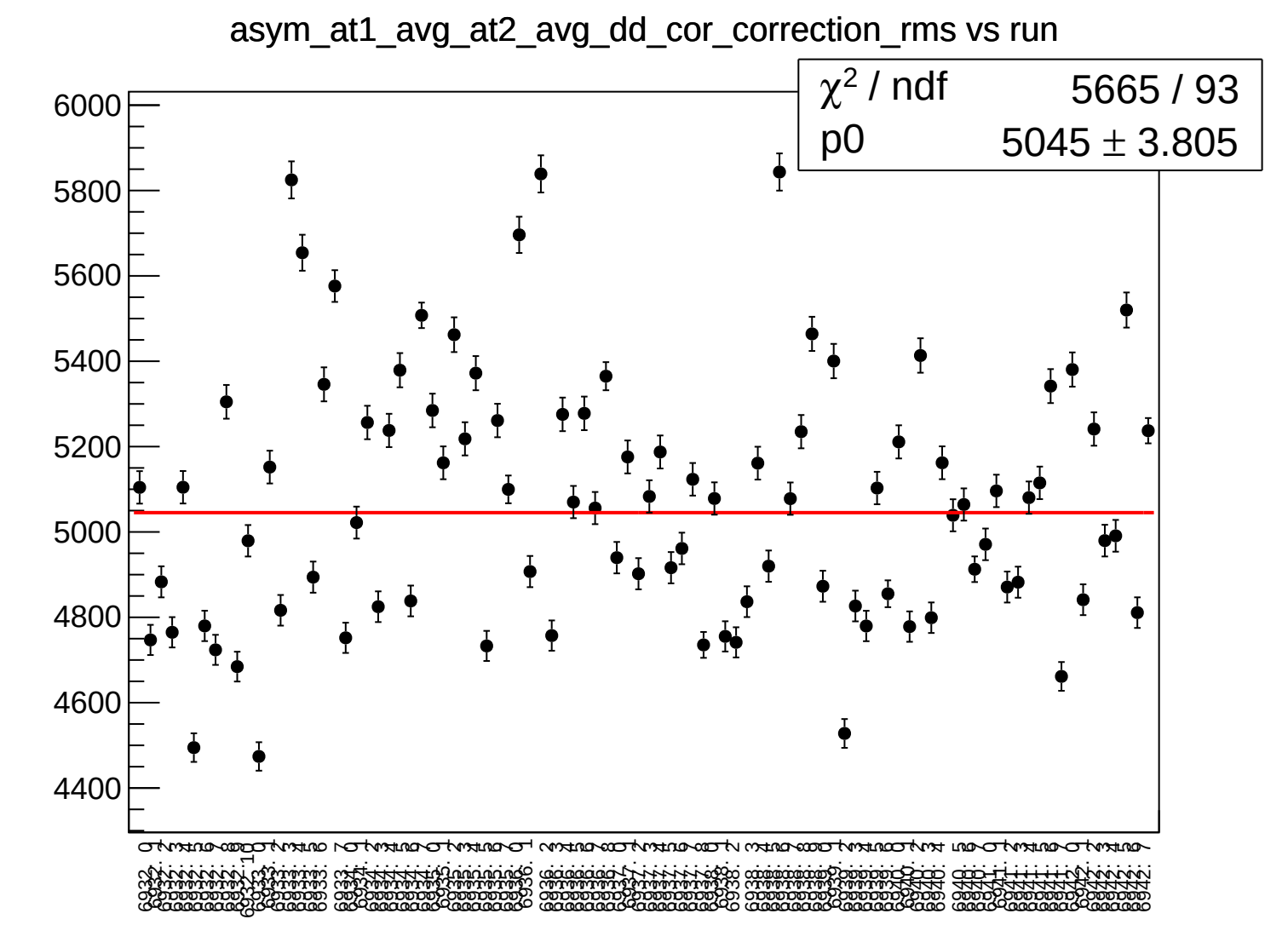

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5664 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

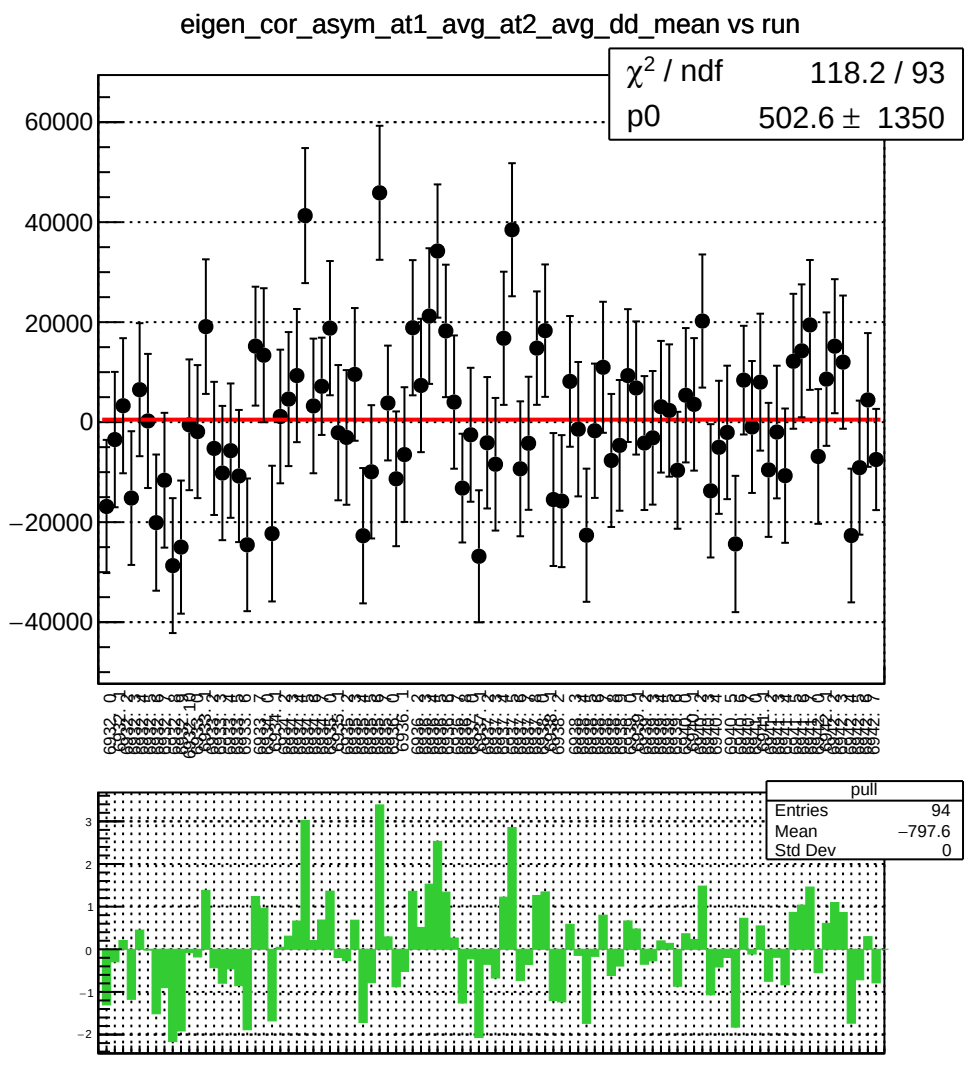

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

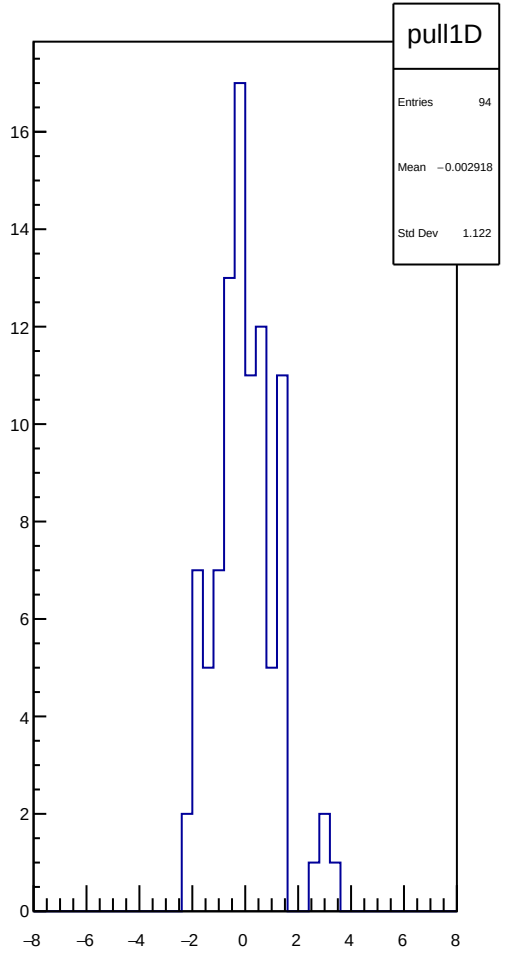

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

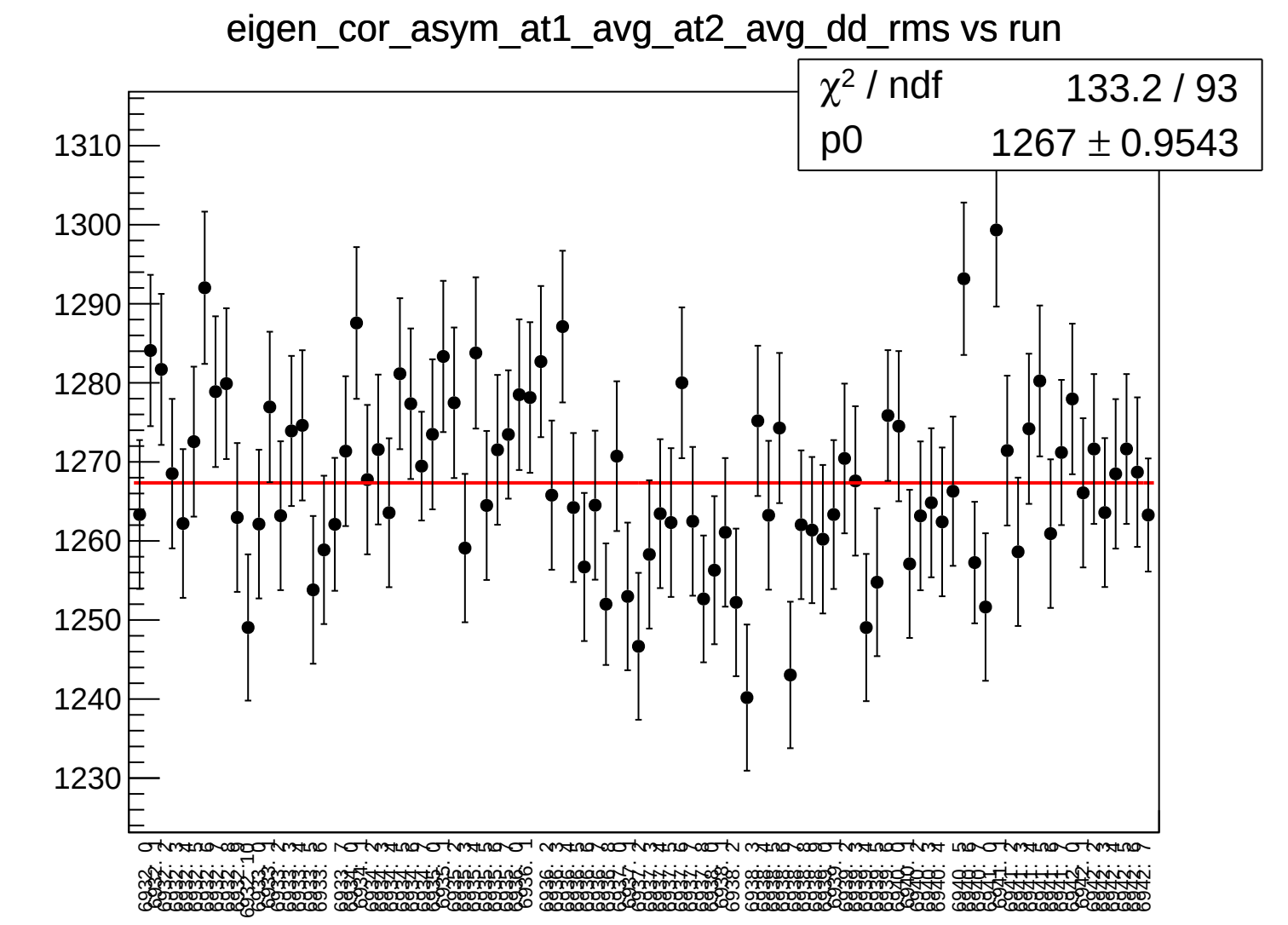

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

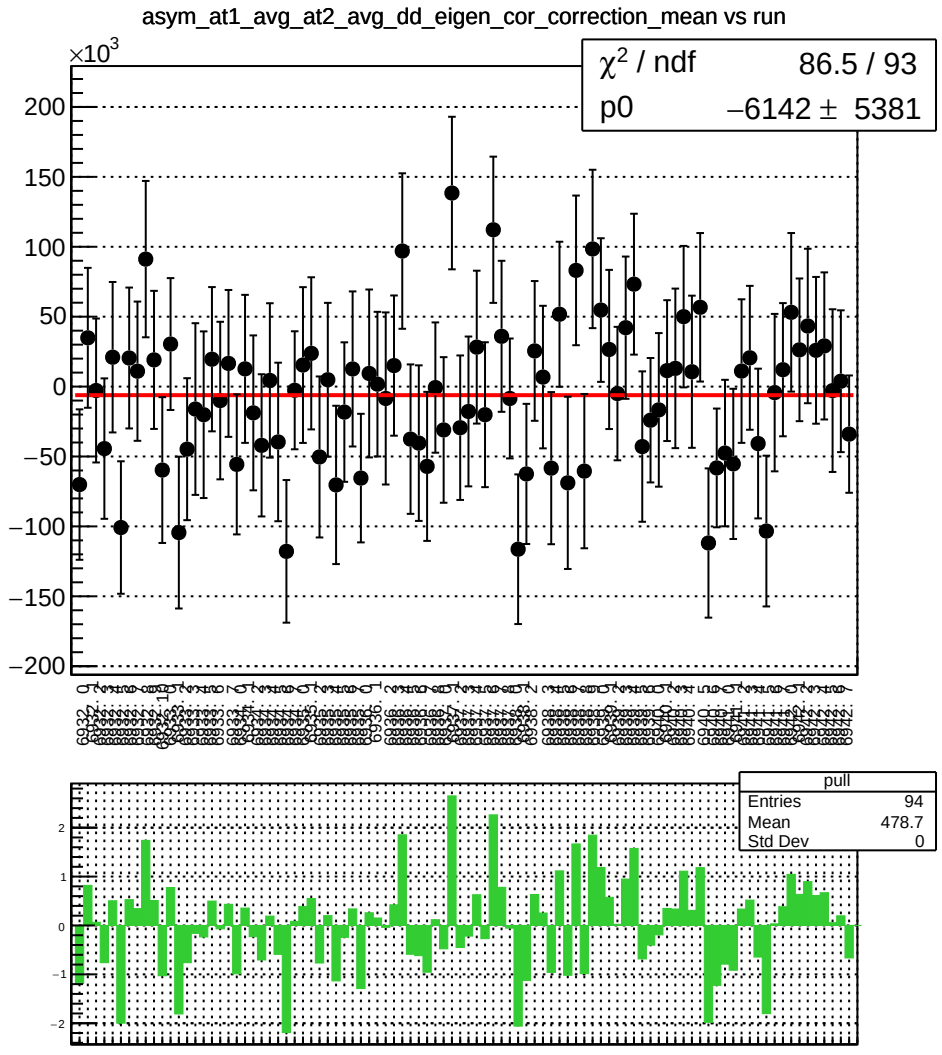

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
×10³
pull
Entries 94
Mean 478.7
Std Dev 0
pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592

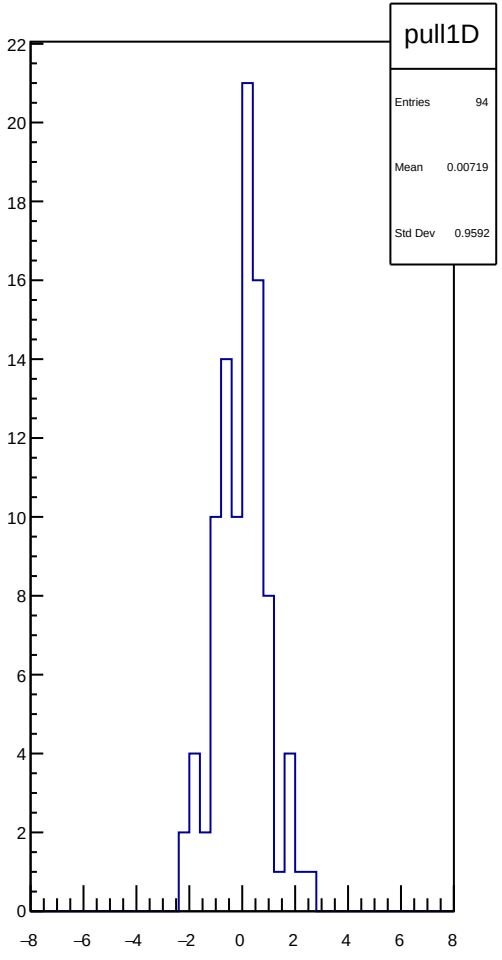

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

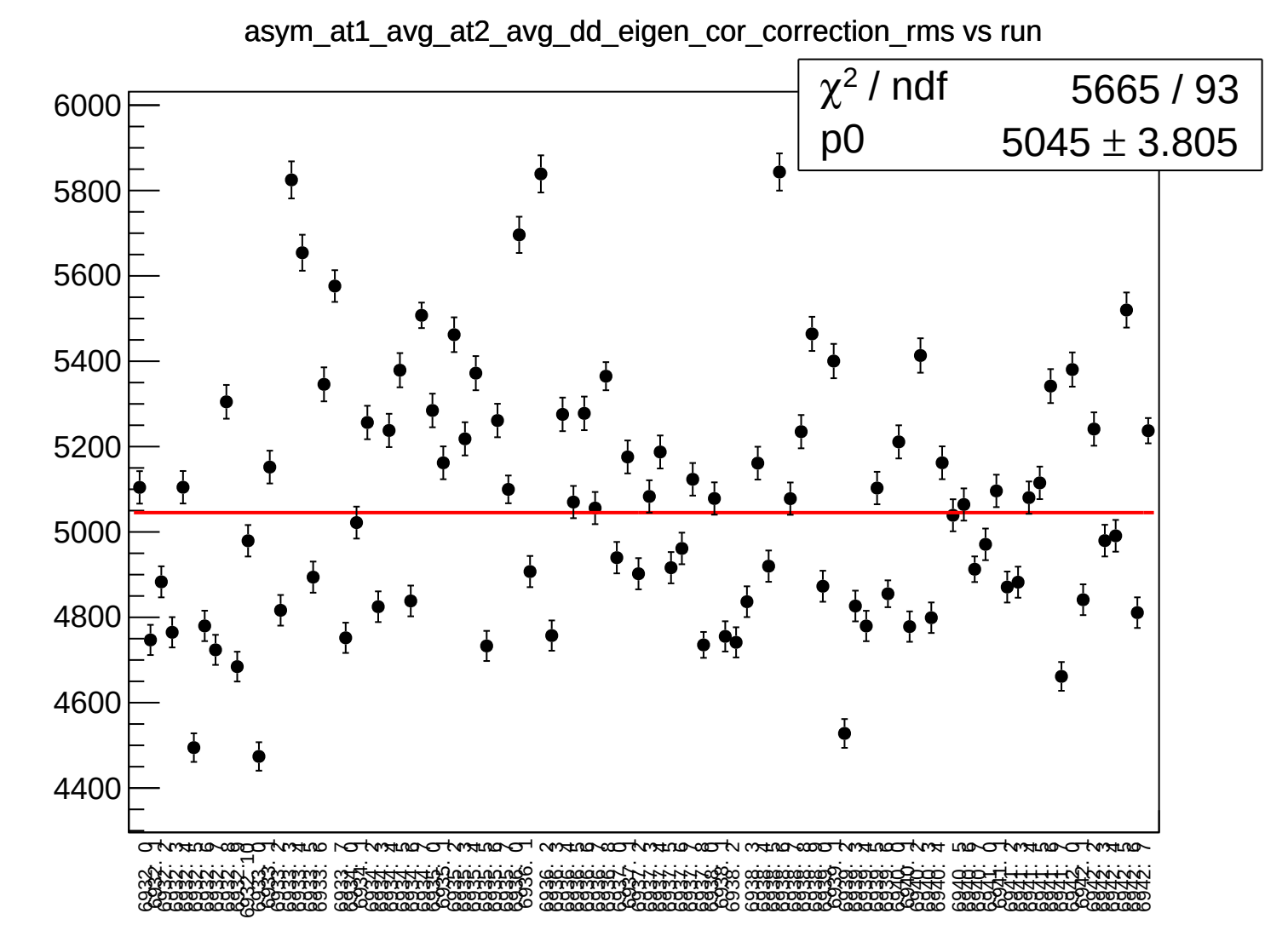

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

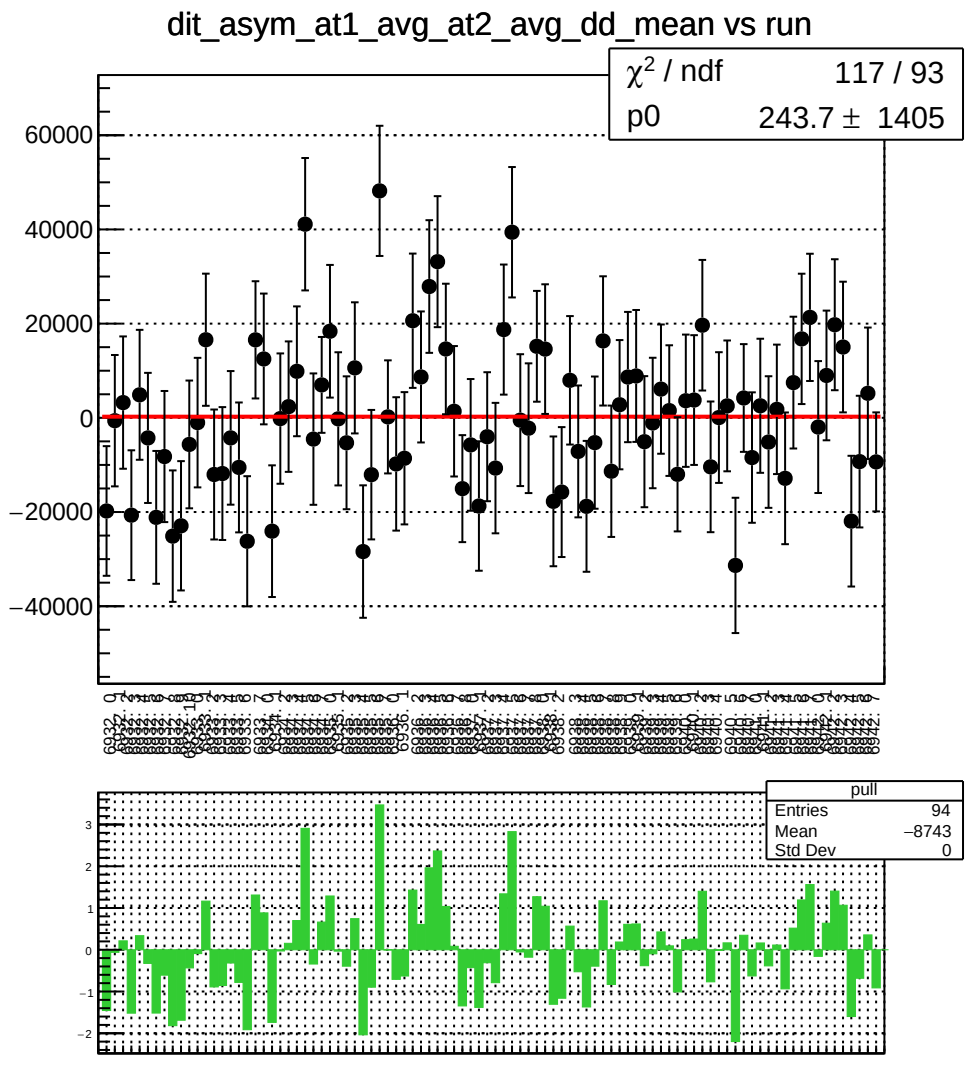

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

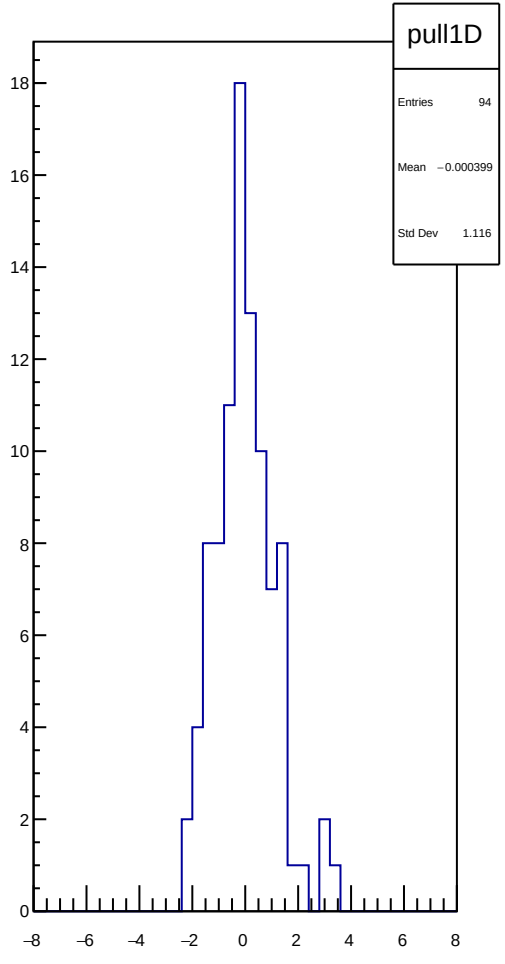

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

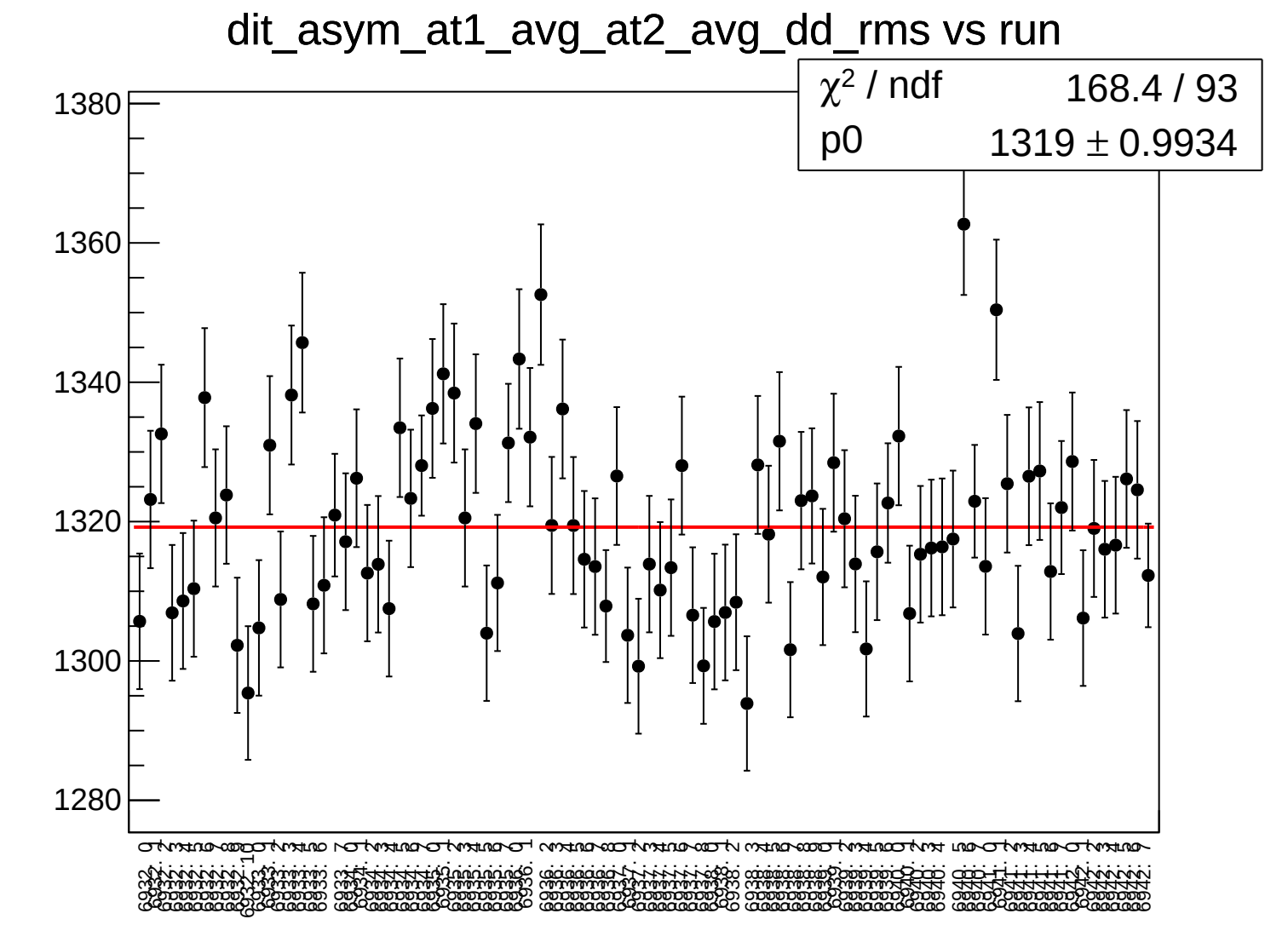

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.7
Std Dev 0

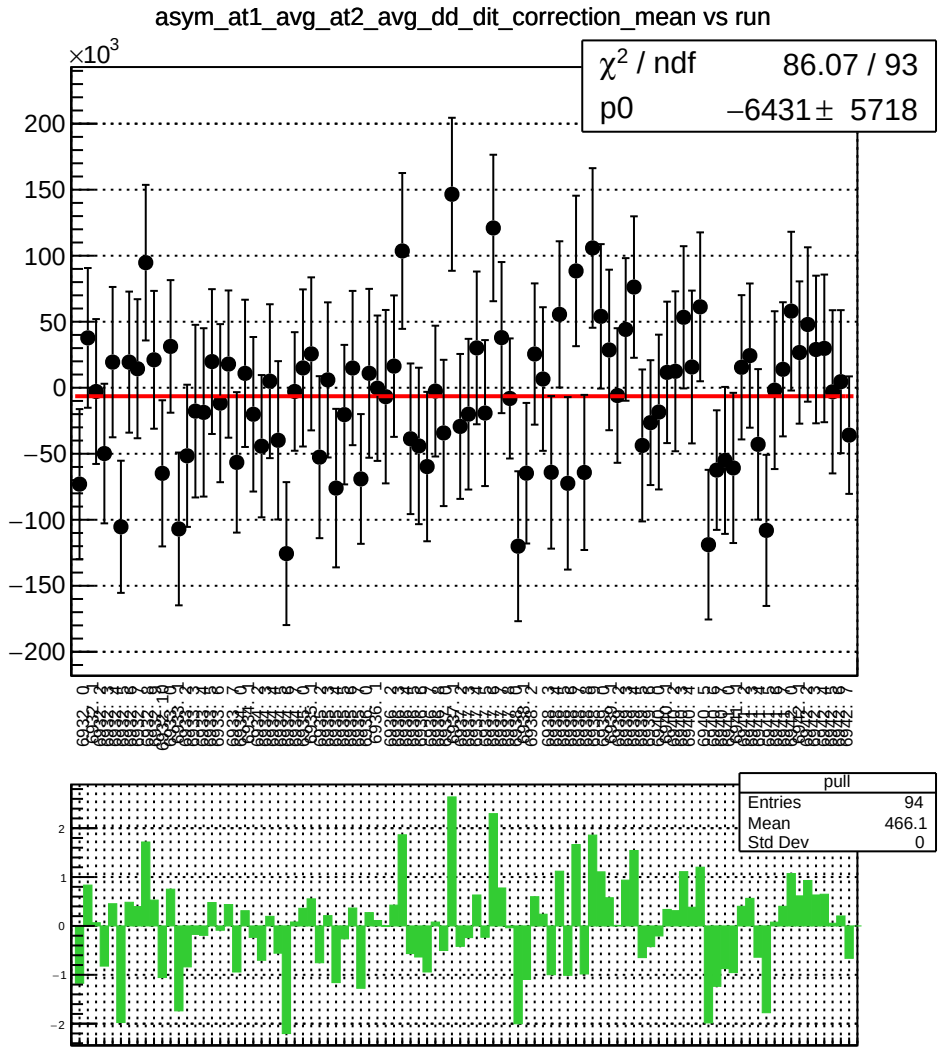

pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592

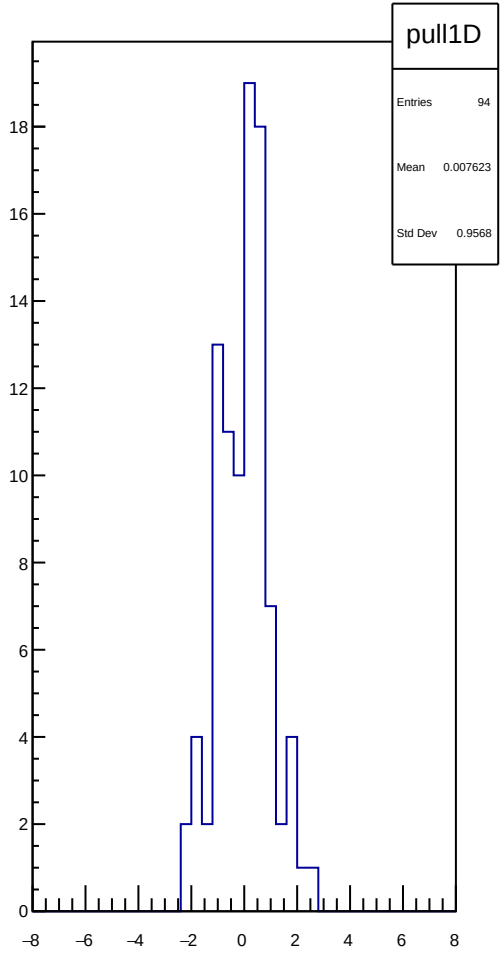

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

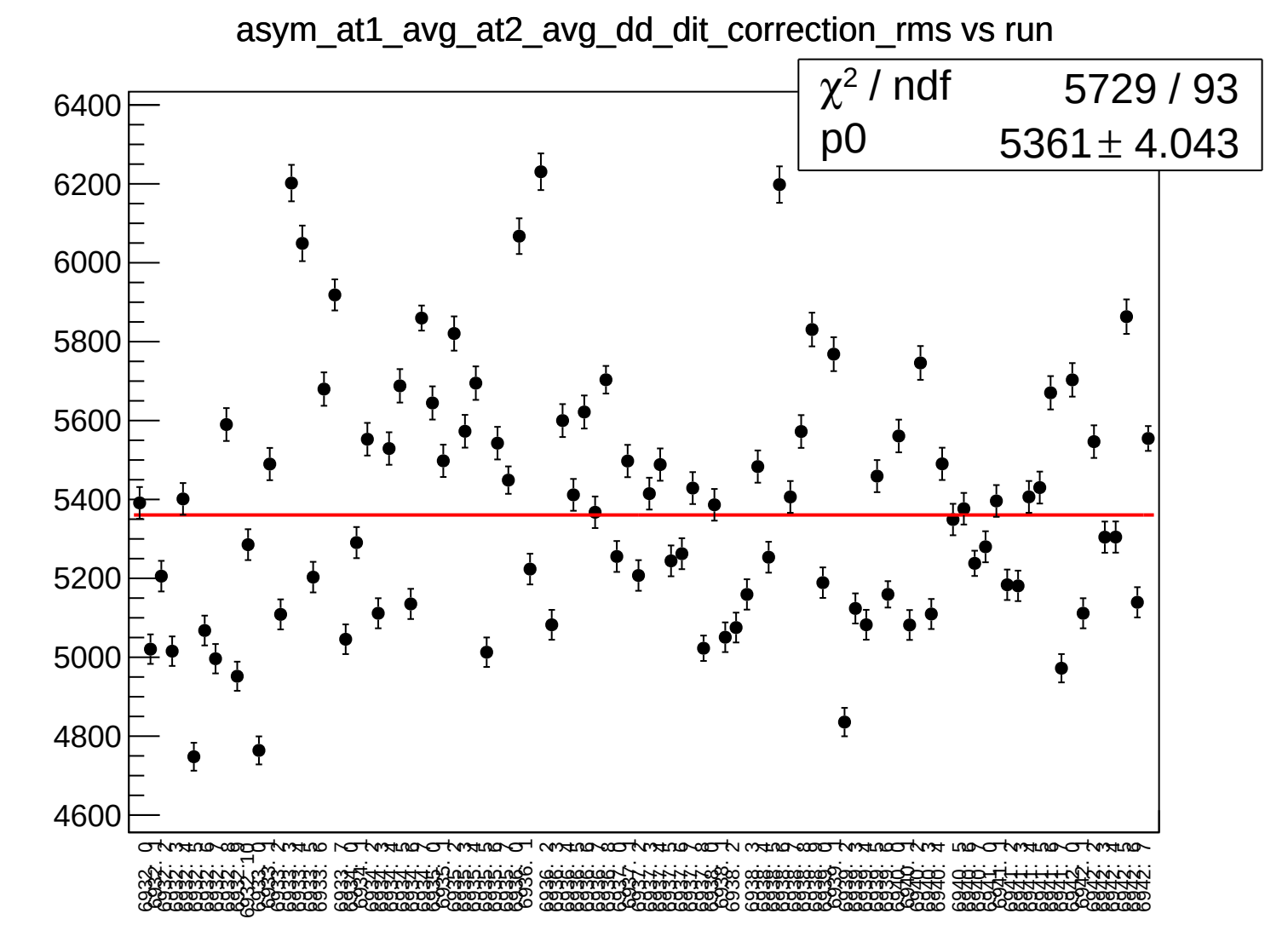

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

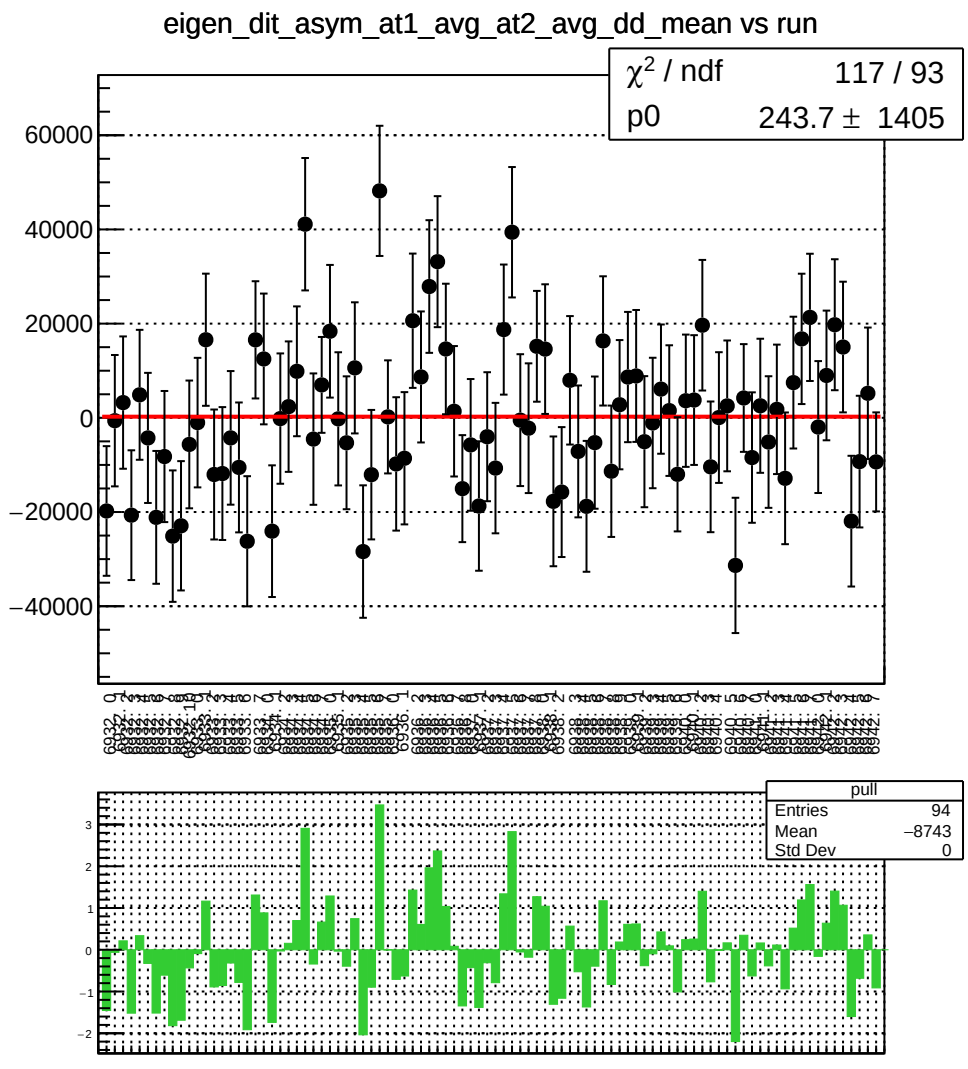

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

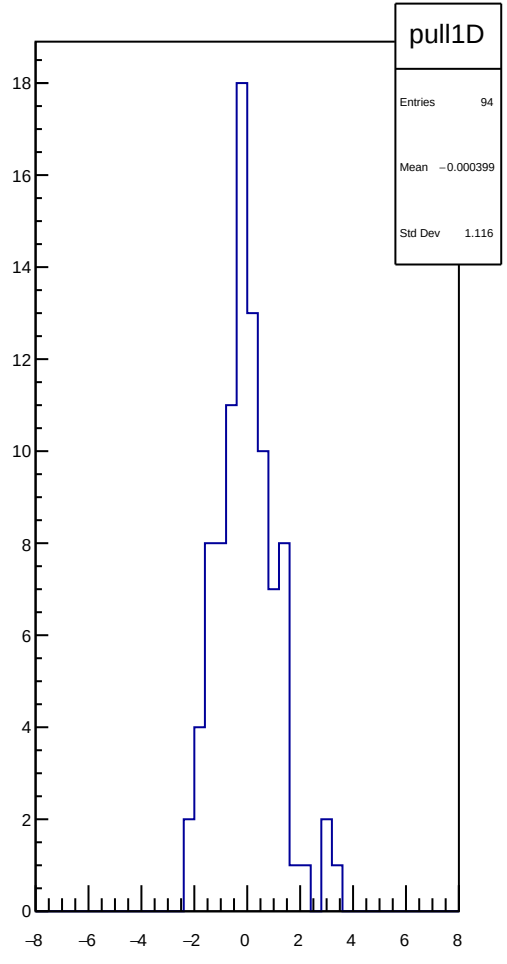

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

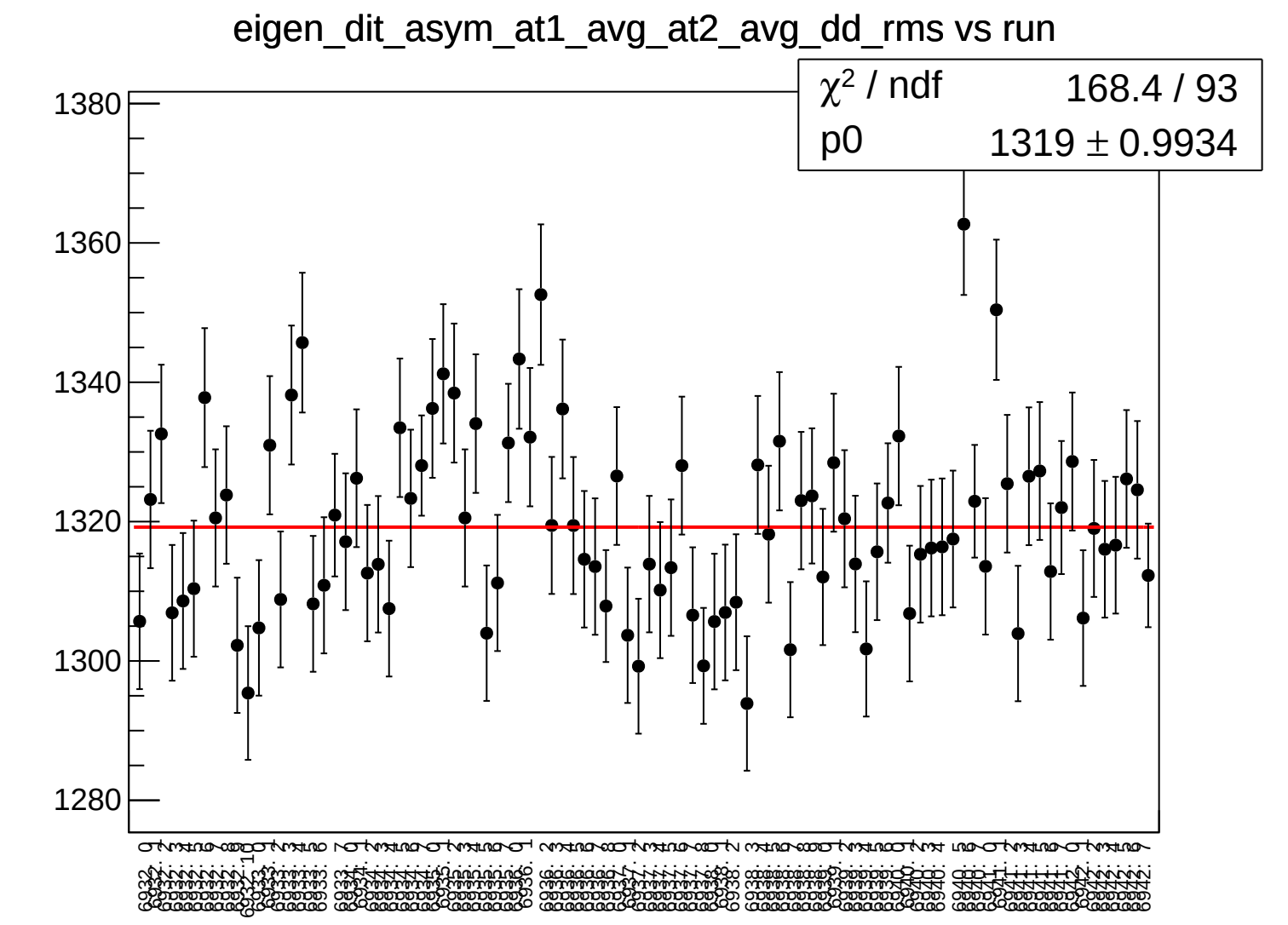

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2

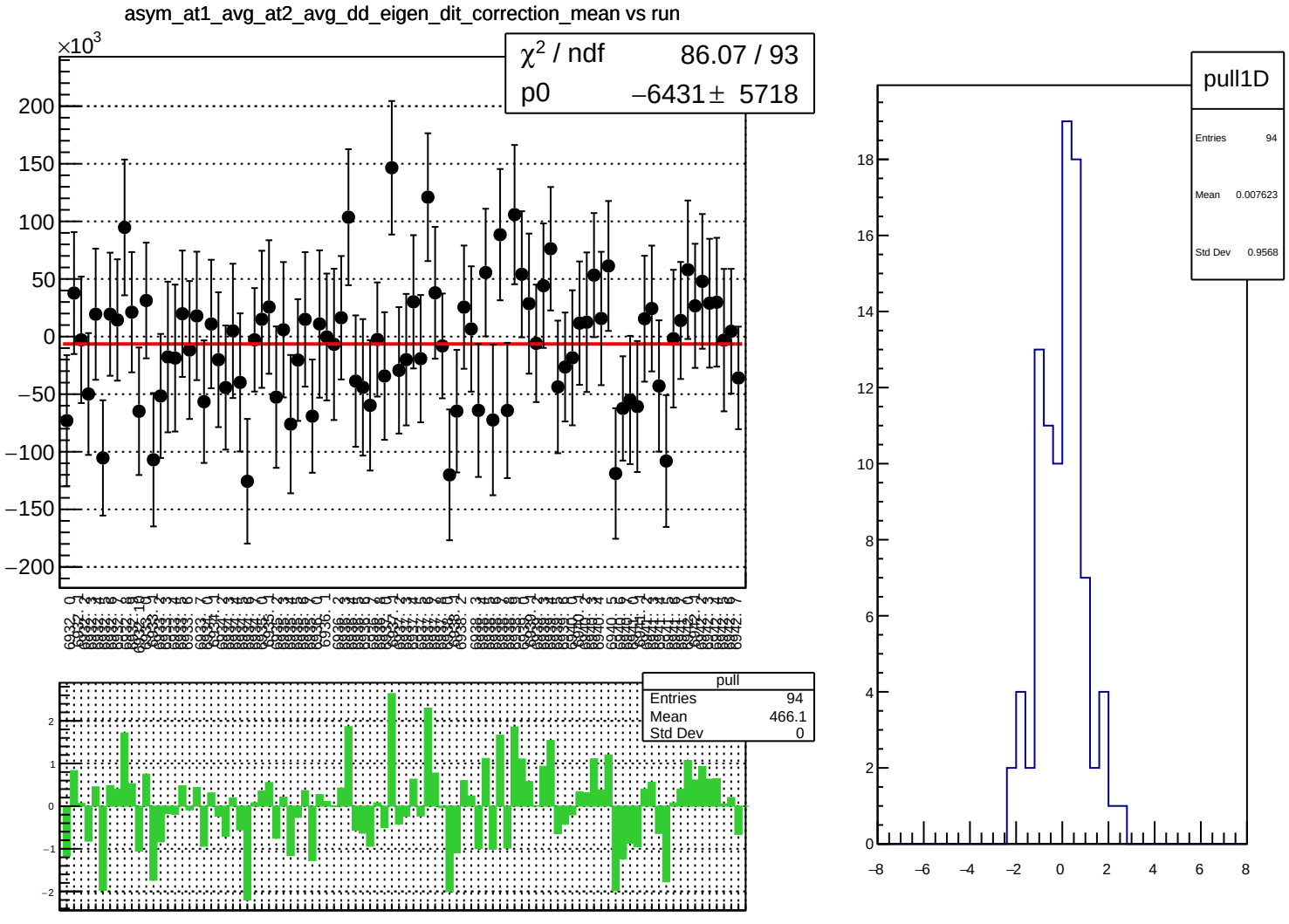

pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

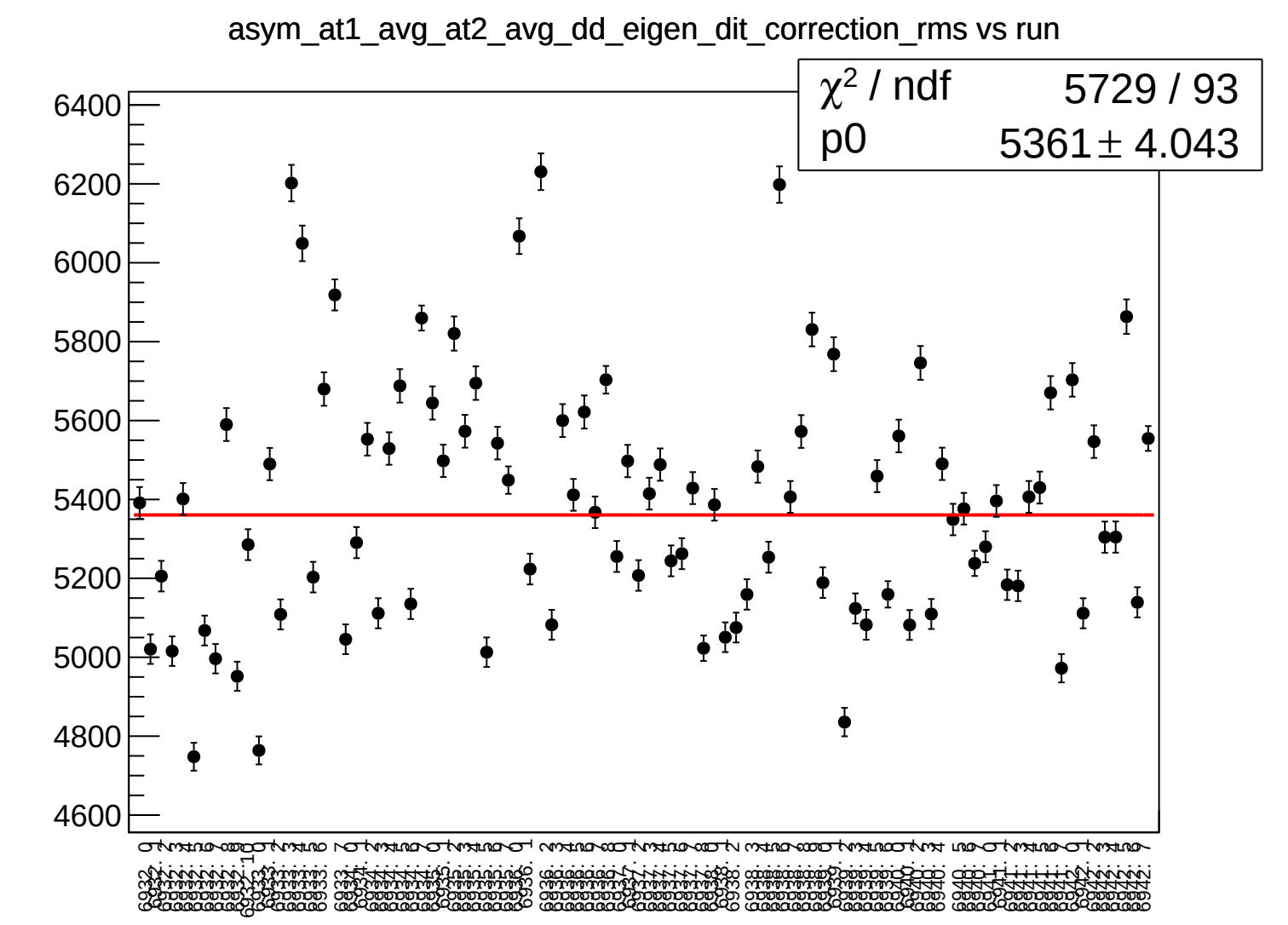

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

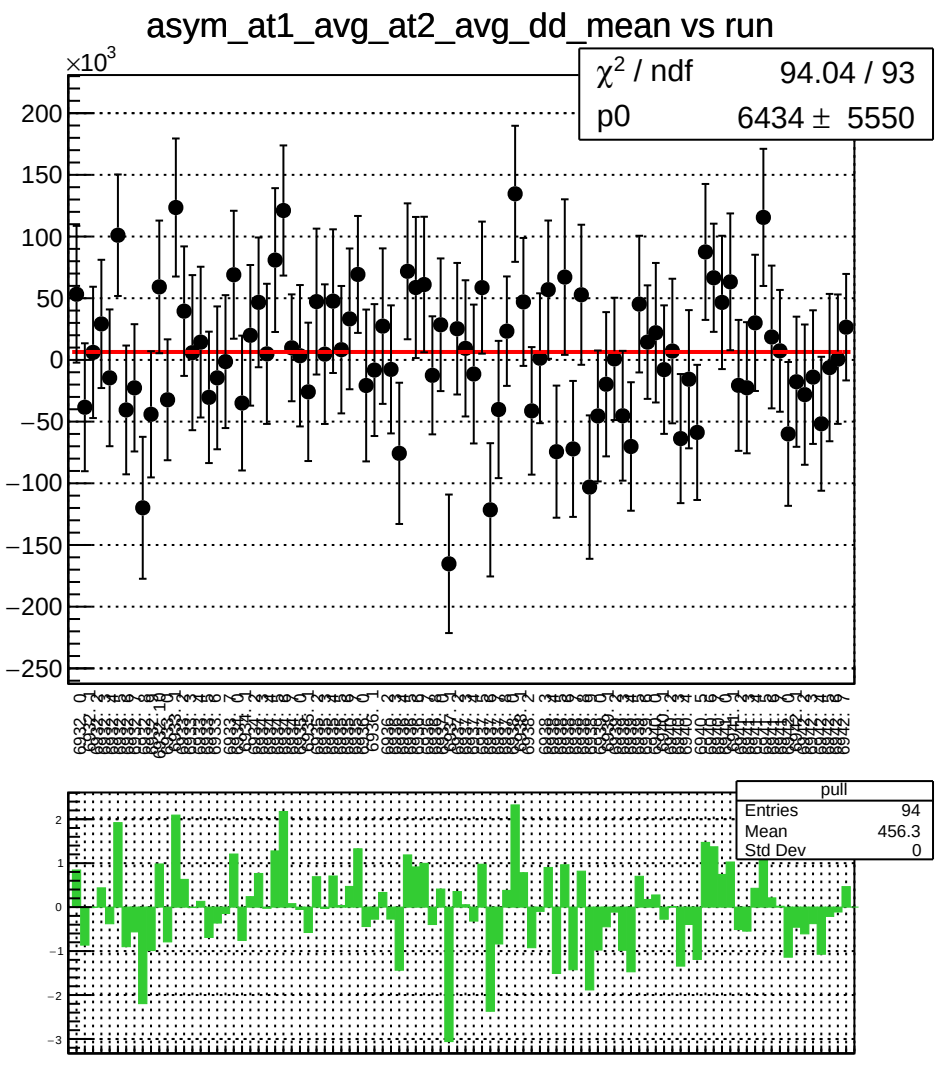

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

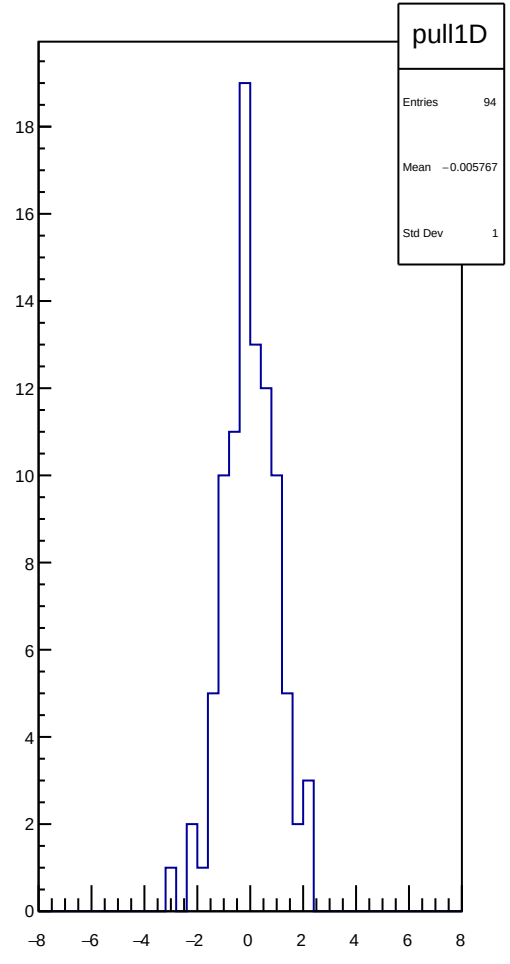

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

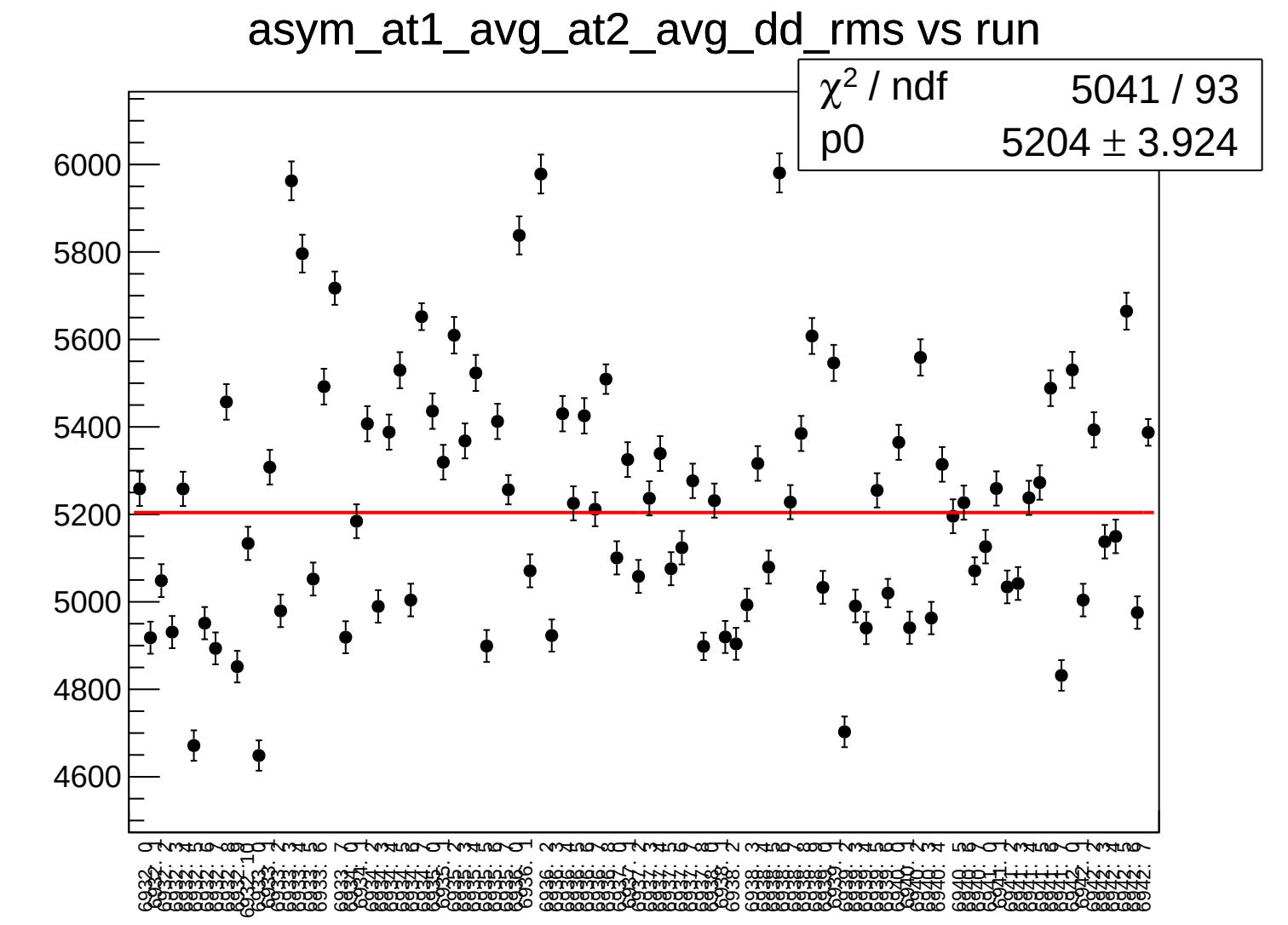

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

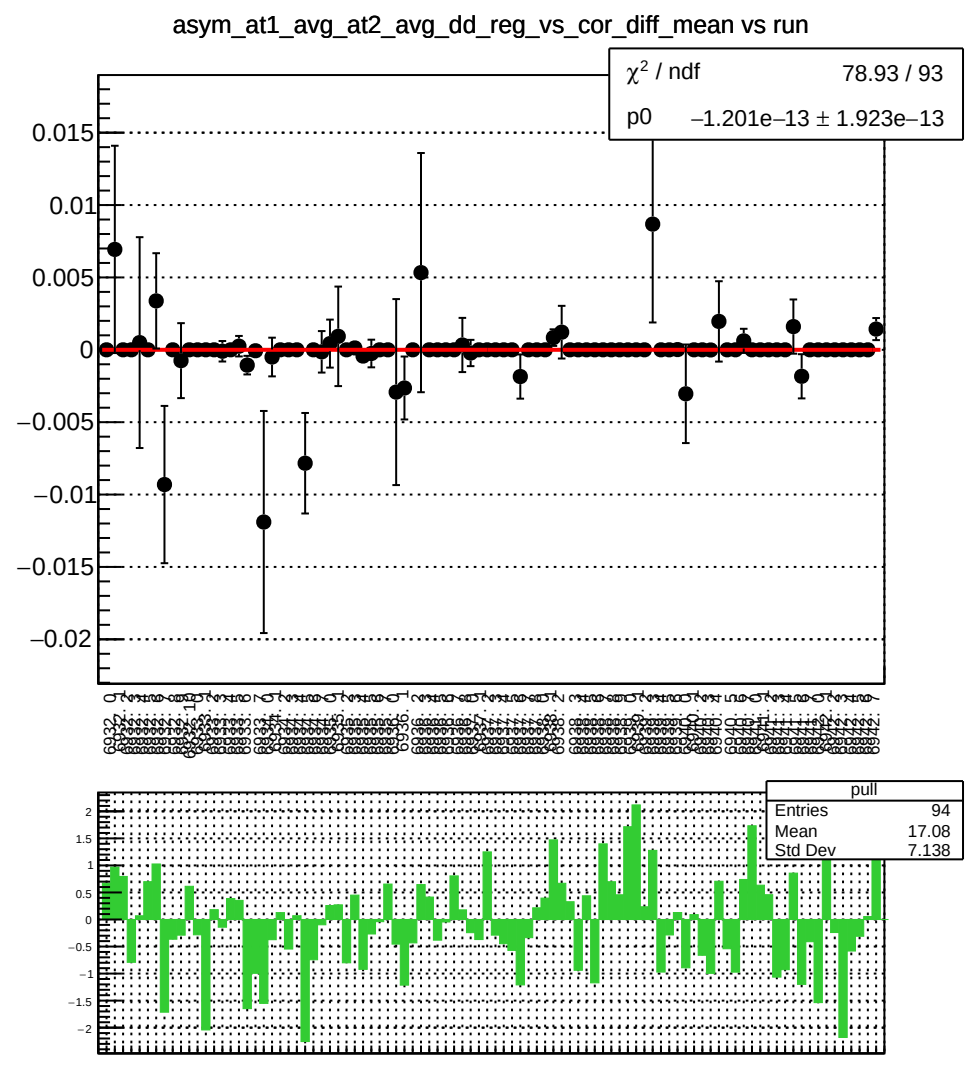

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

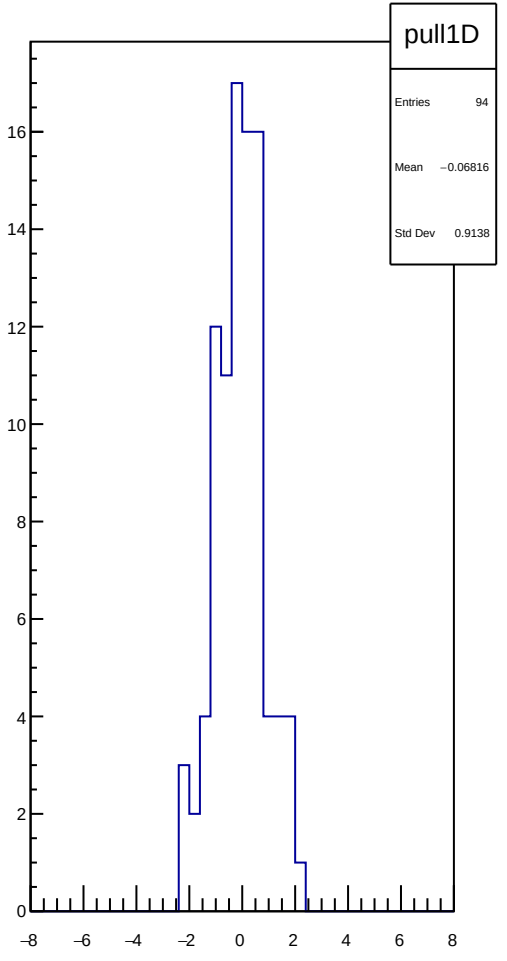

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

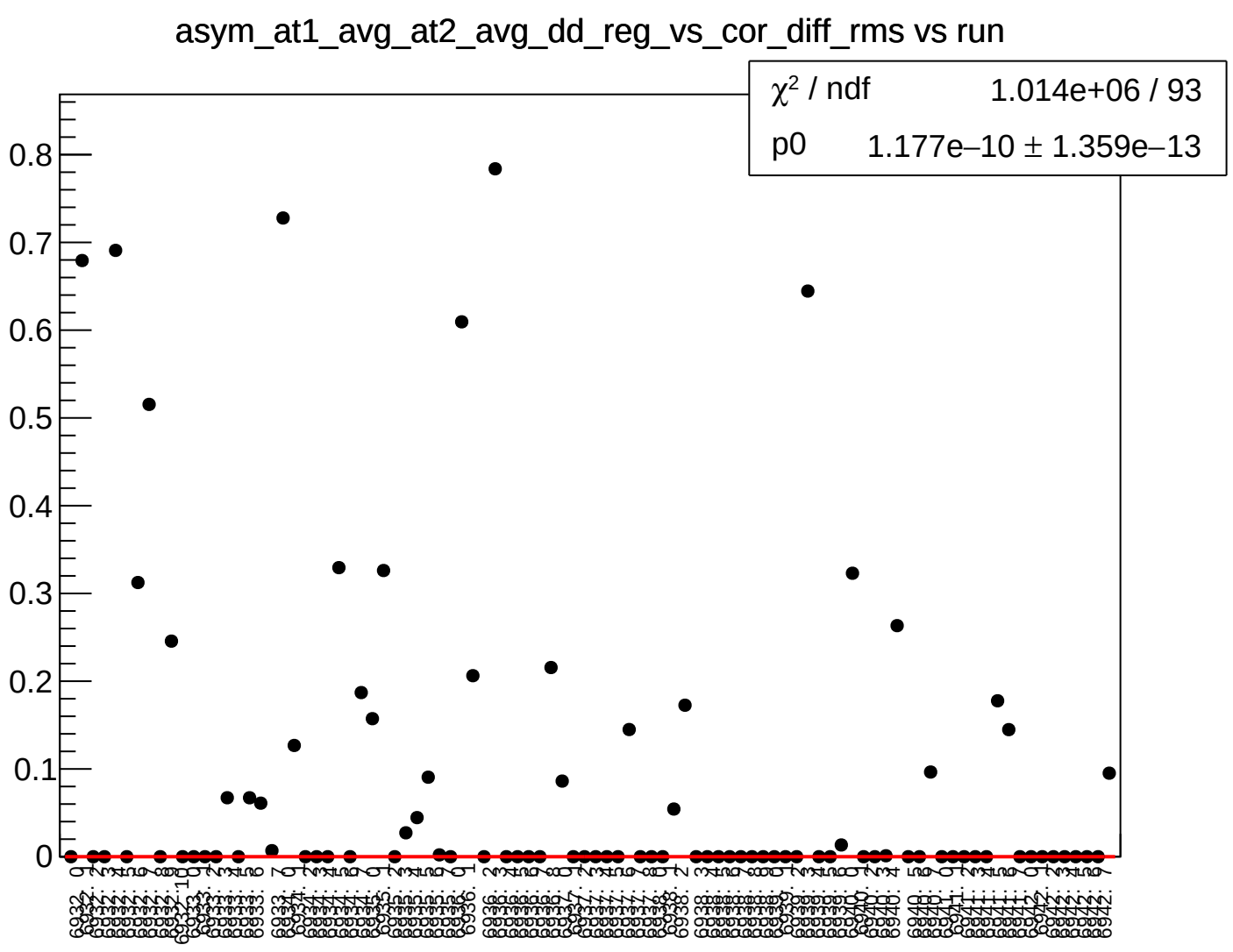

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 94.04 / 93
p0 6434 ± 5550
pull
Entries 94
Mean 456.3
Std Dev 0

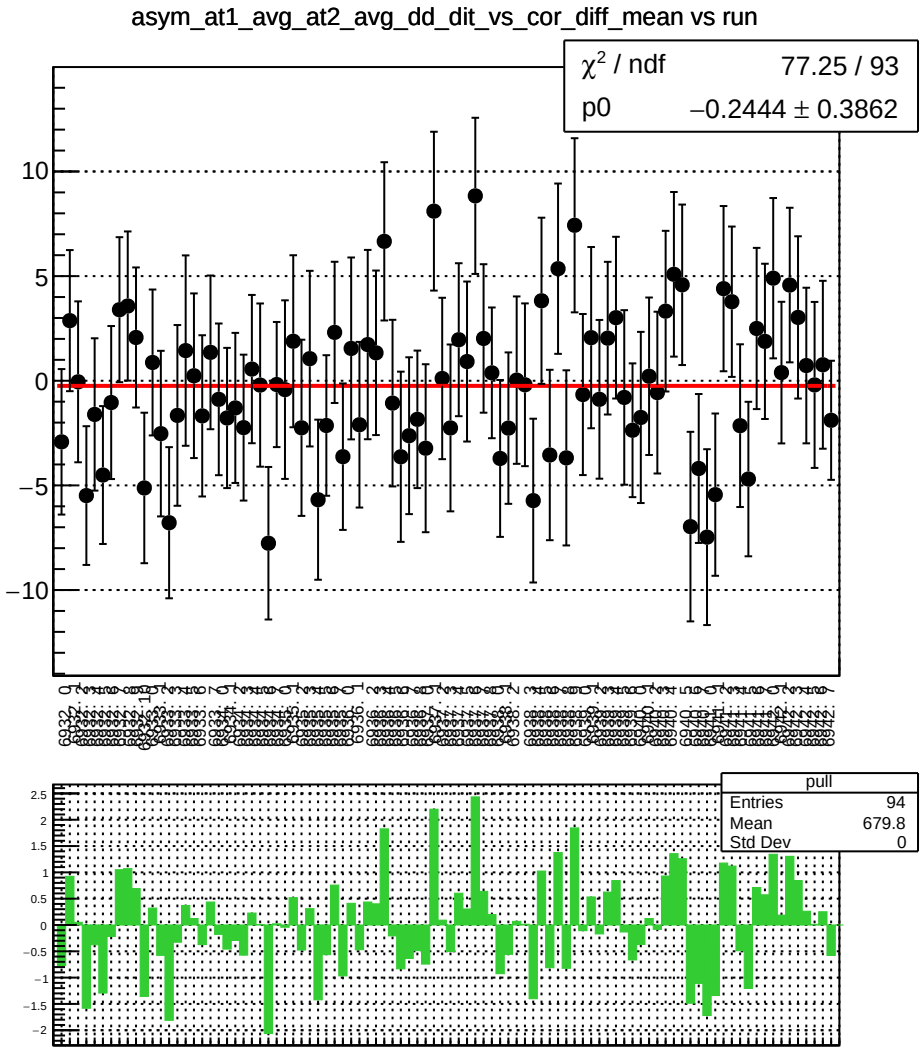

pull1D
Entries 94
Mean −0.005767
Std Dev 1

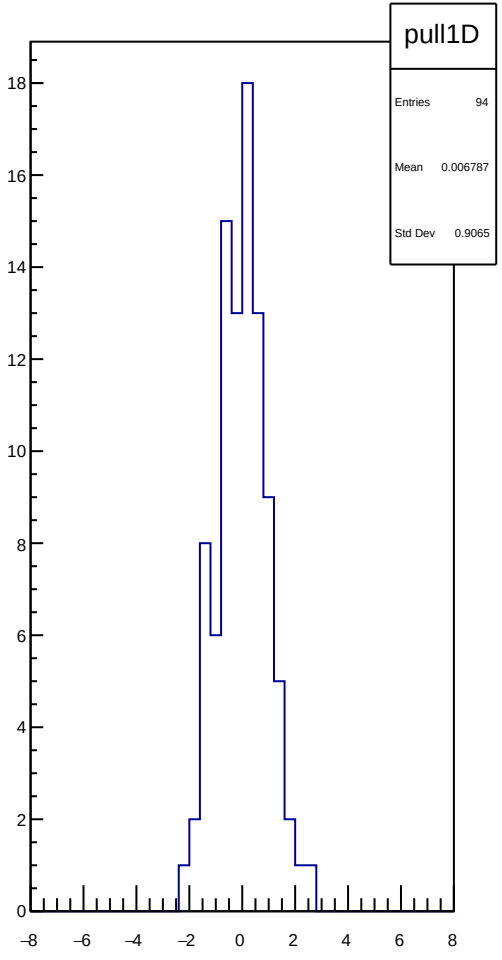

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 5041 / 93
p0 5204 ± 3.924
6000
5800
5600
5400
5200
5000
4800
4600

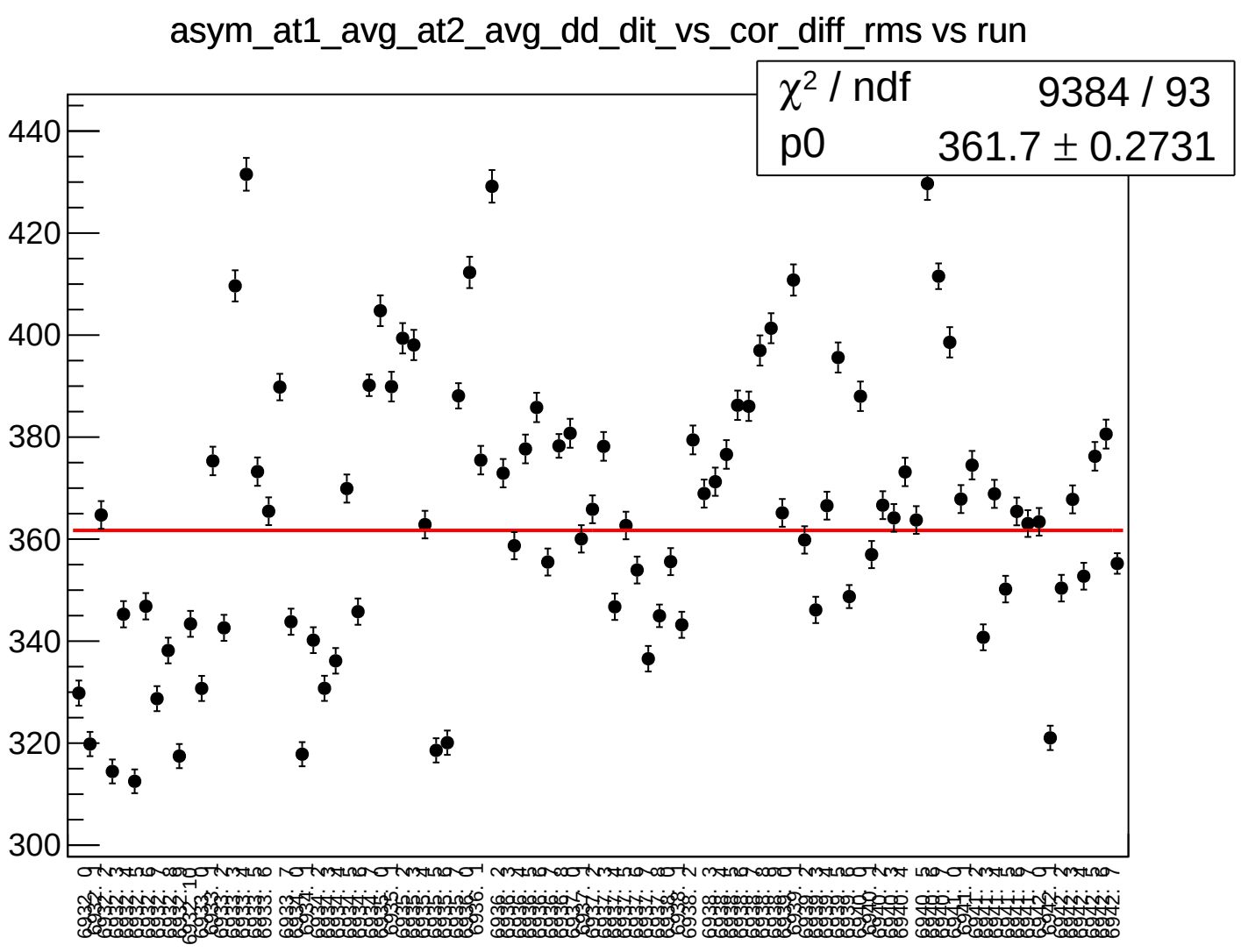

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.93 / 93
p0 −1.201e−13 ± 1.923e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 17.08
Std Dev 7.138
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

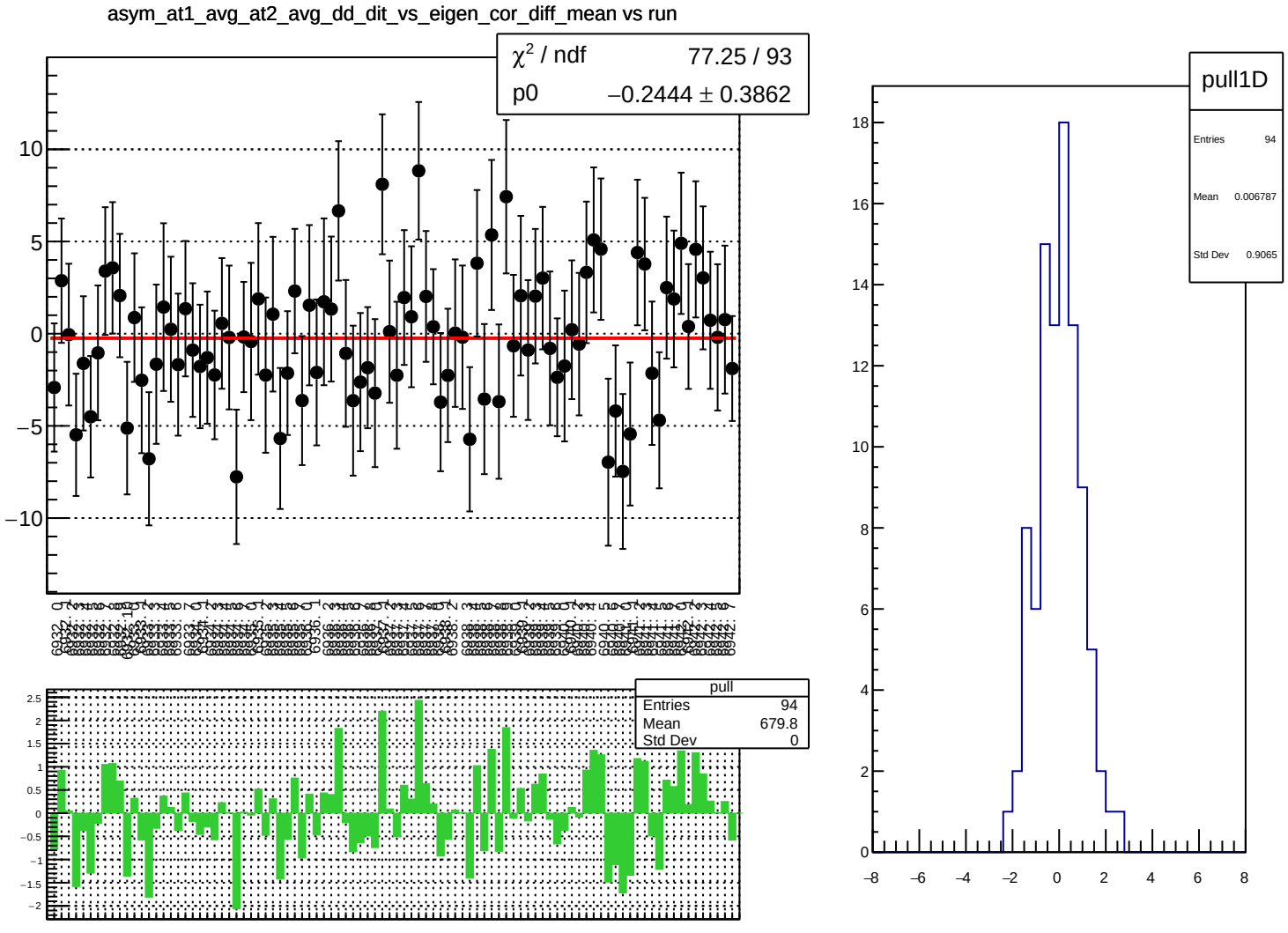

pull1D
Entries 94
Mean −0.06816
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

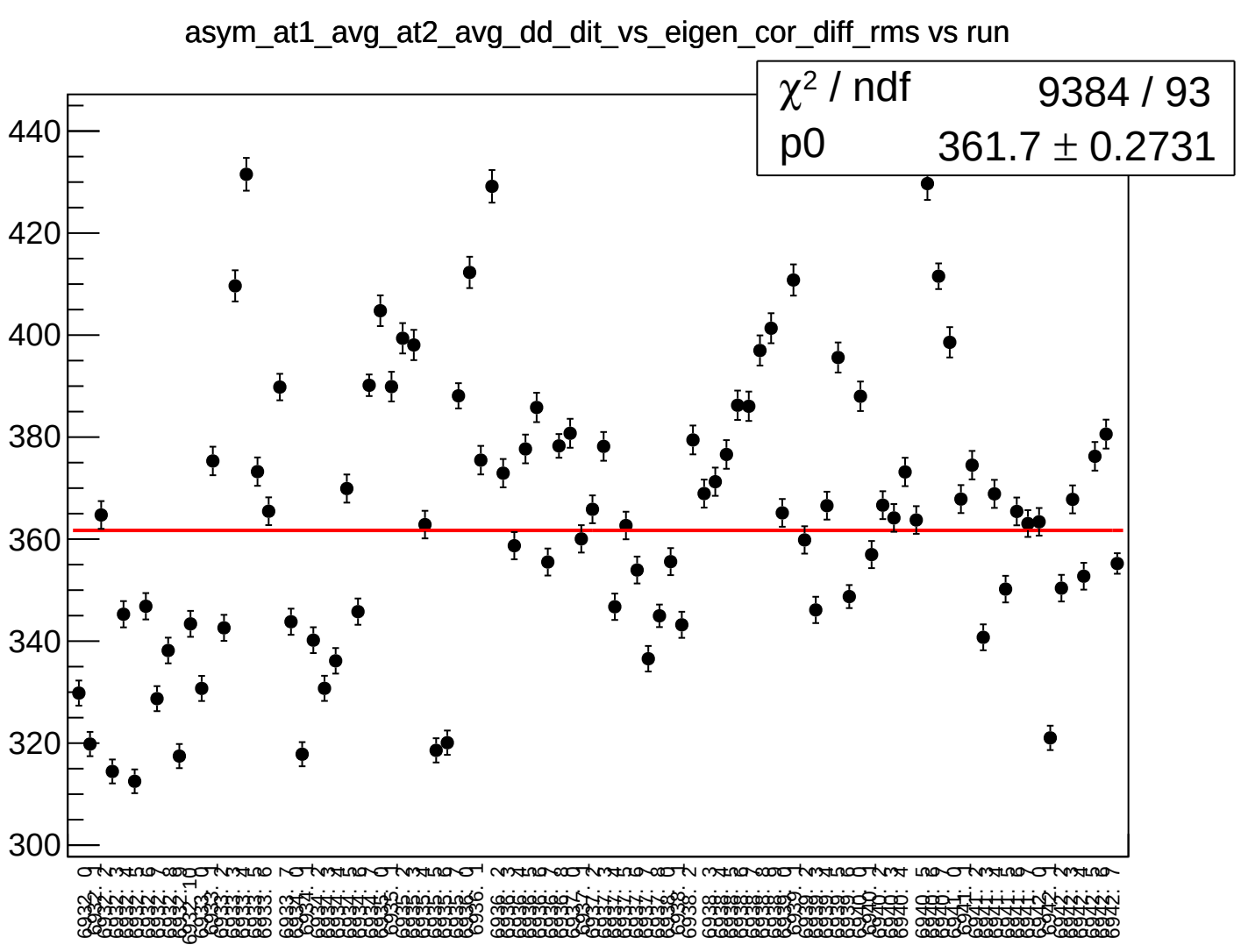

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 93
p0 1.177e−10 ± 1.359e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

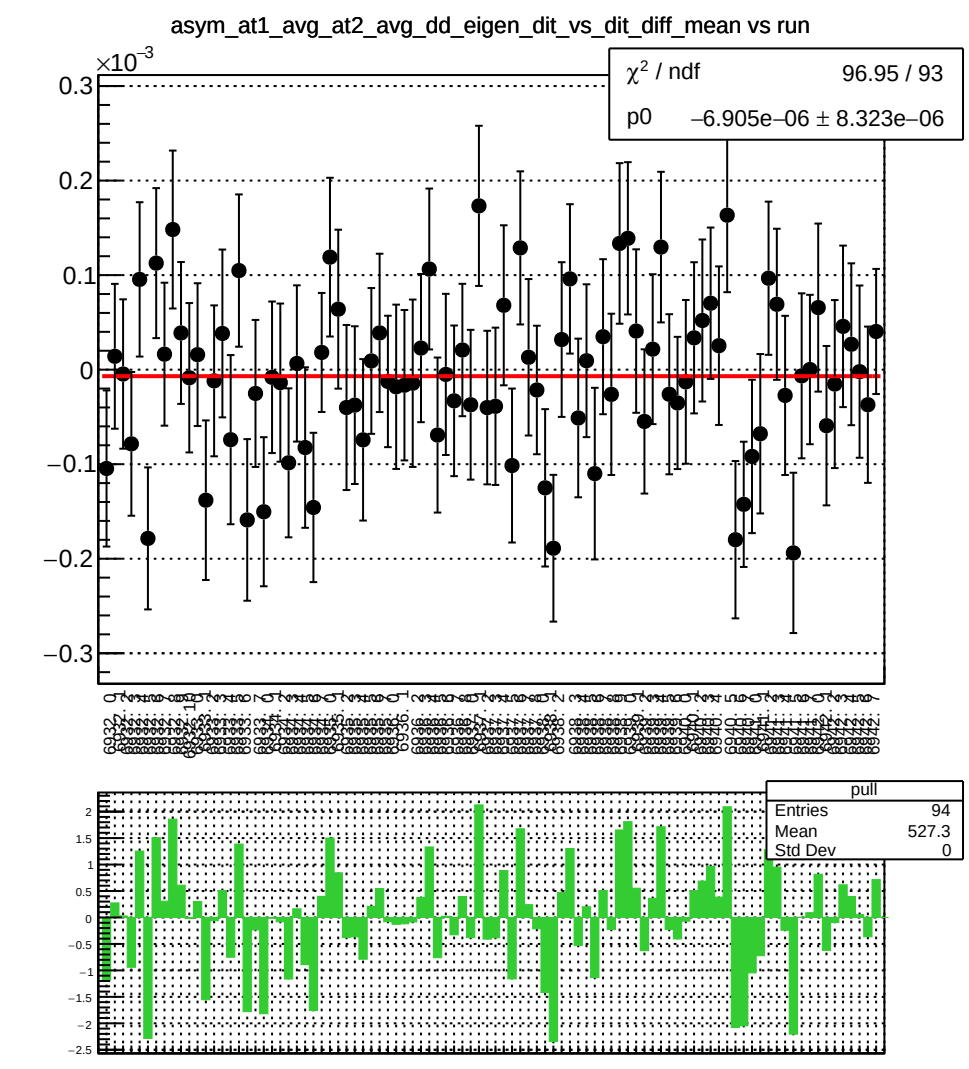

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

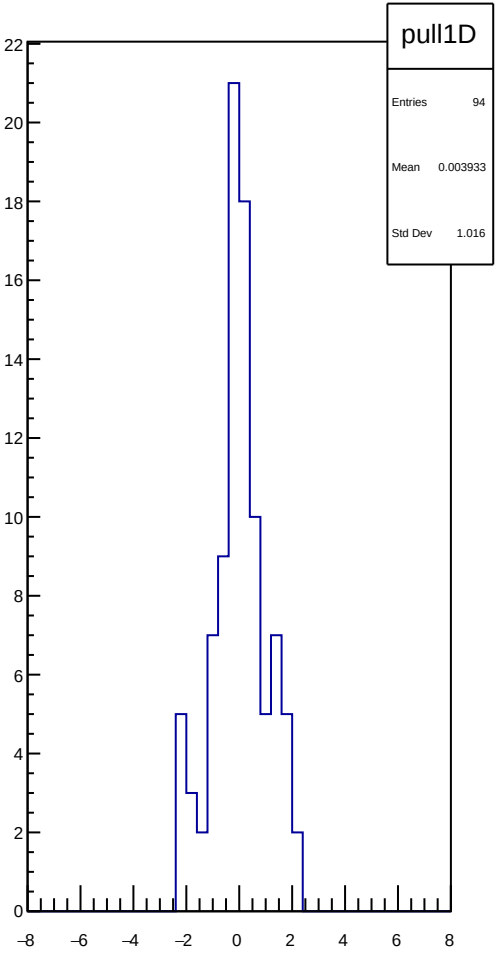

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

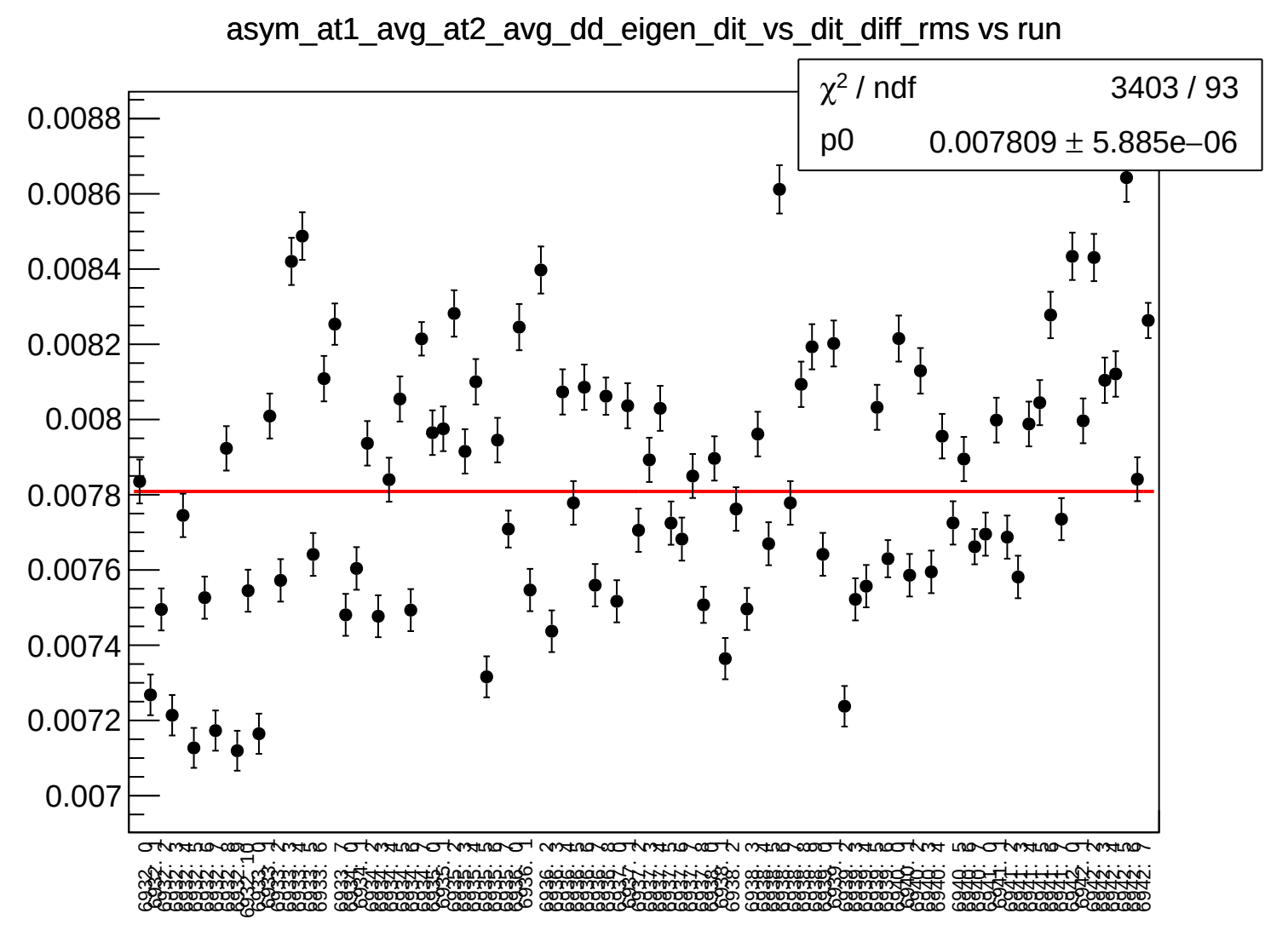

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

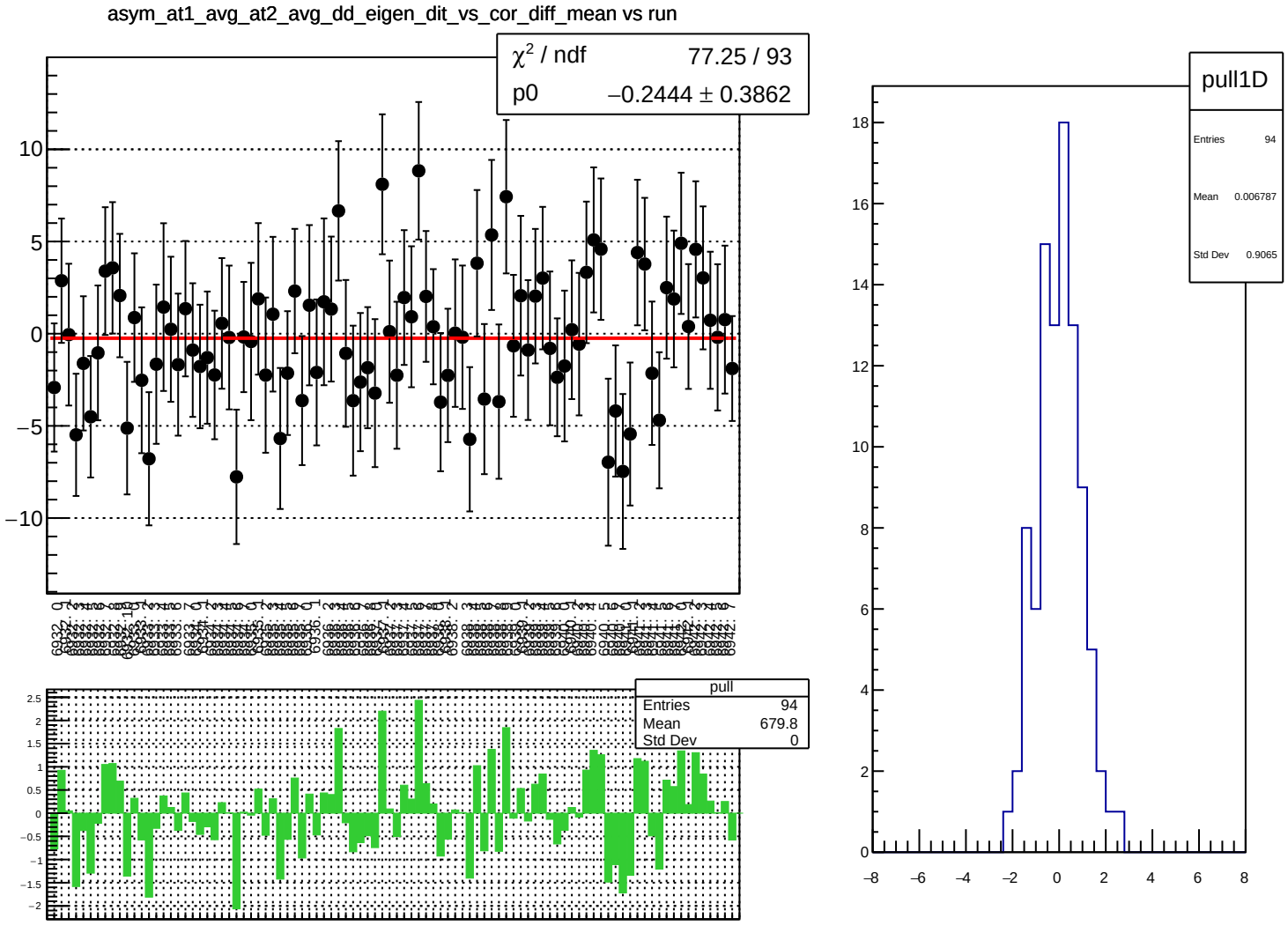

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

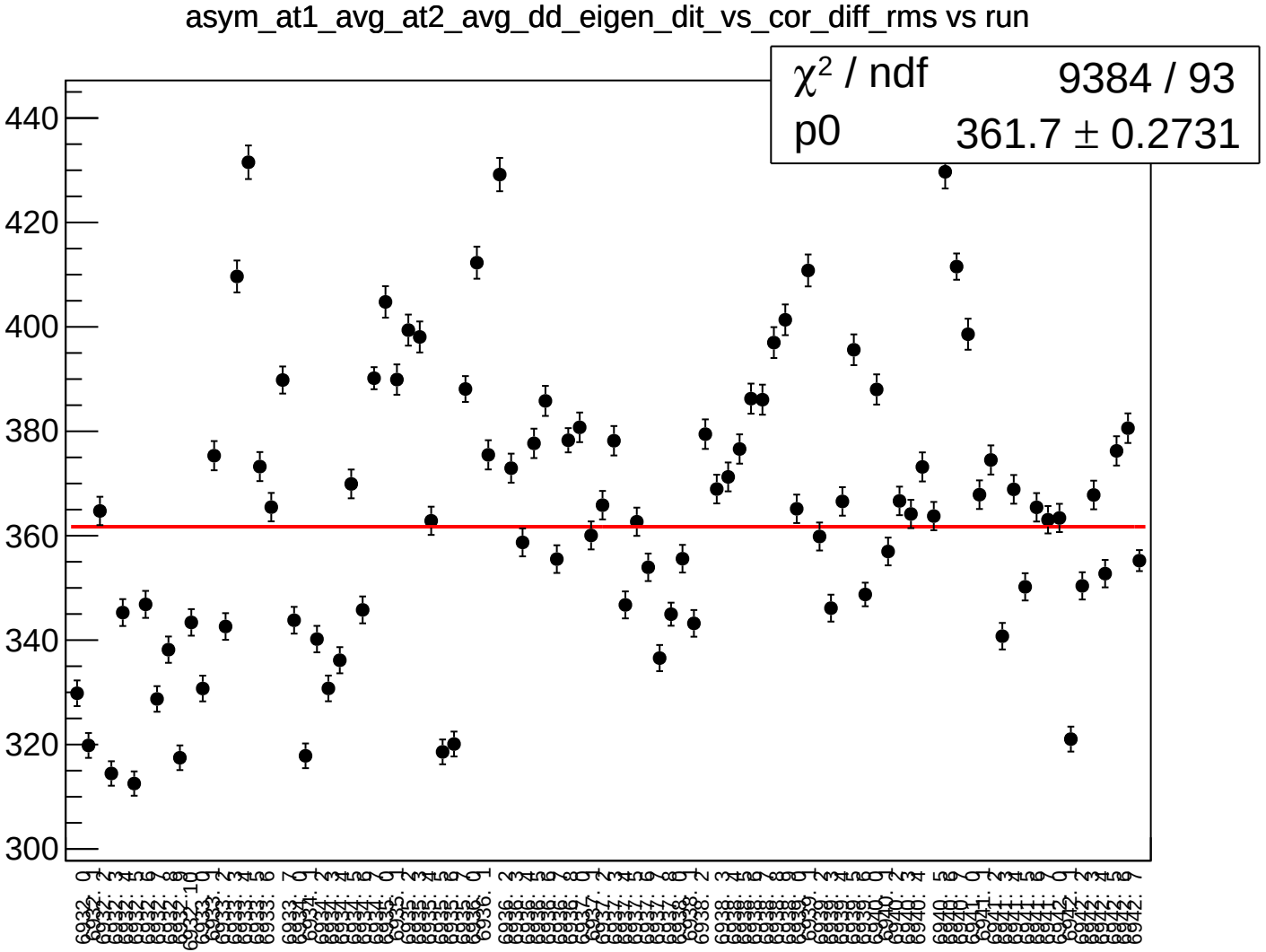

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

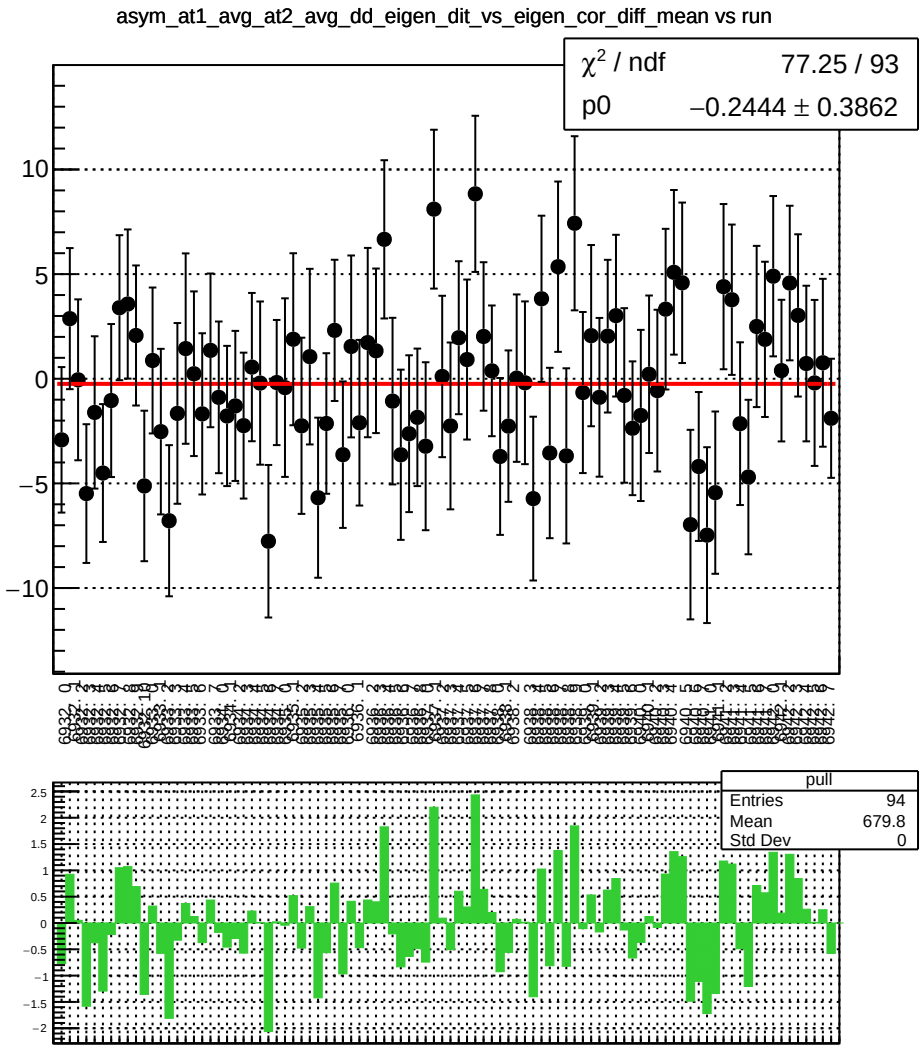

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.95 / 93
p0 −6.905e−06 ± 8.323e−06
pull
Entries 94
Mean 527.3
Std Dev 0

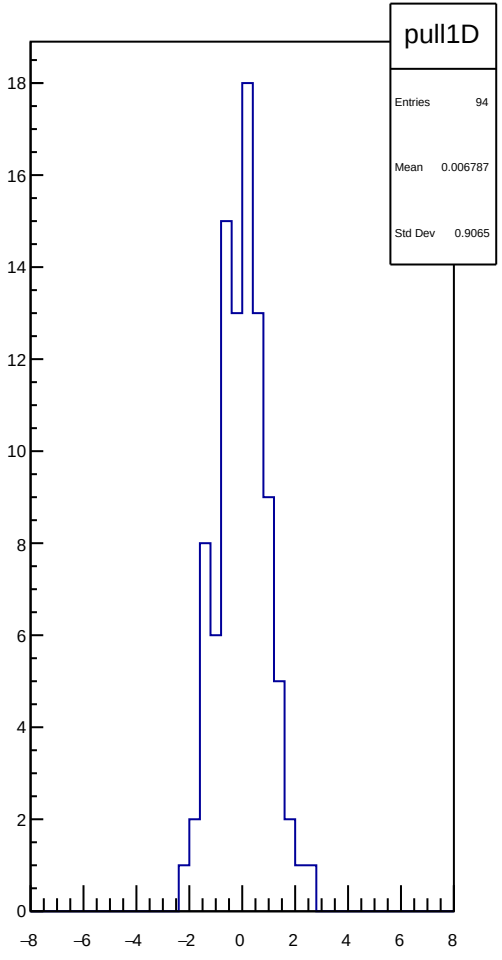

pull1D
Entries 94
Mean 0.003933
Std Dev 1.016

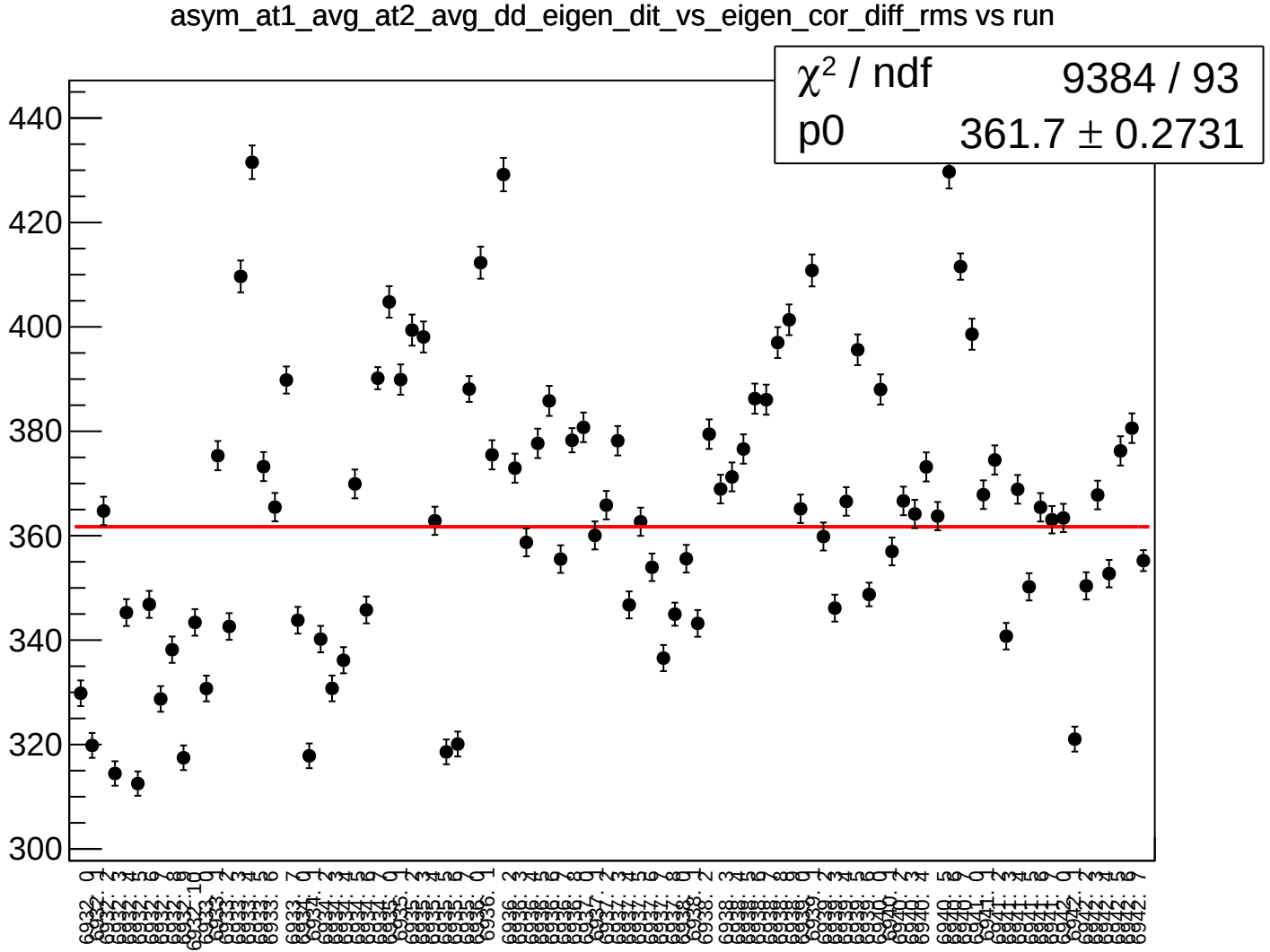

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3403 / 93
p0 0.007809 ± 5.885e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

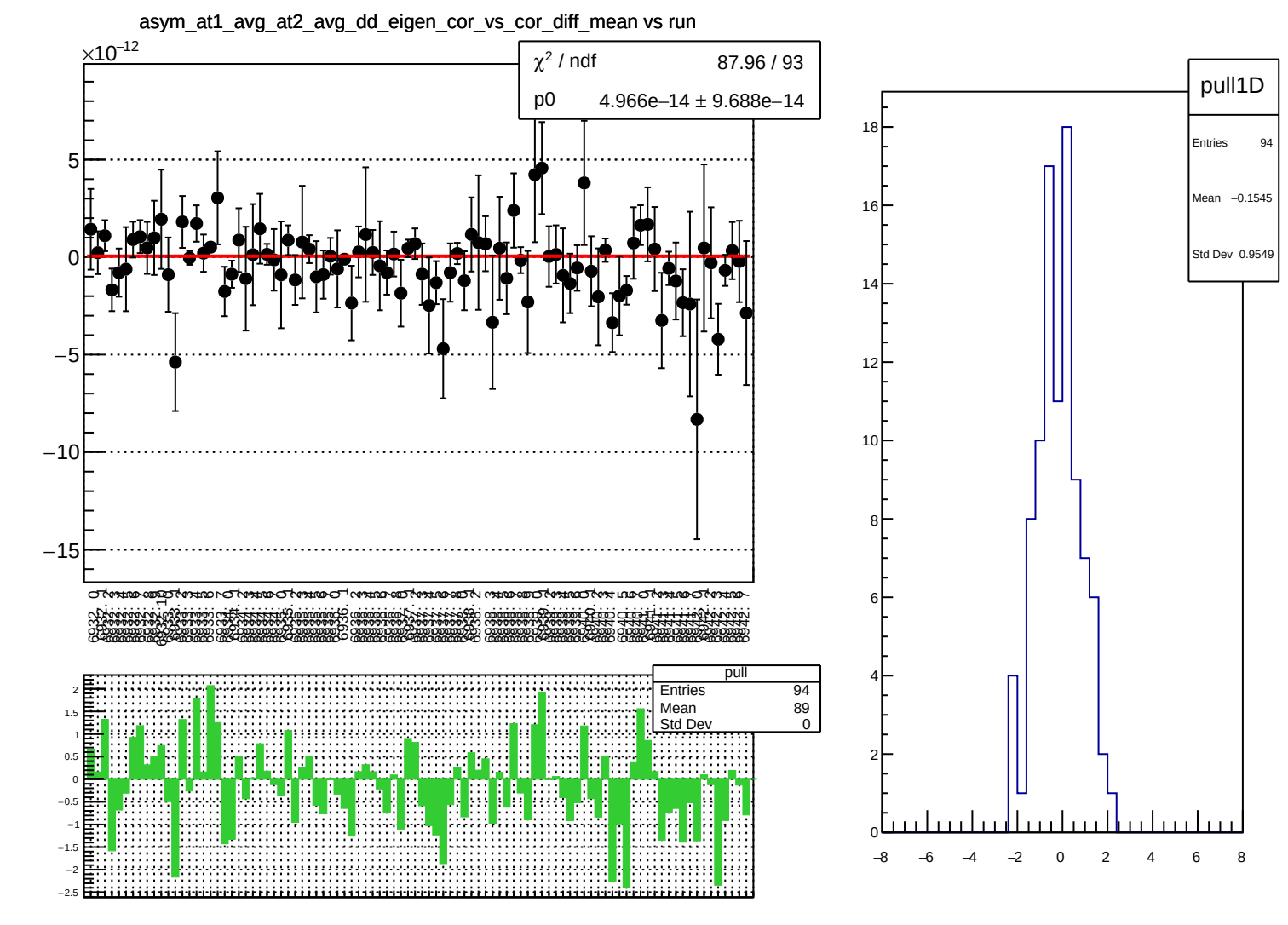

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

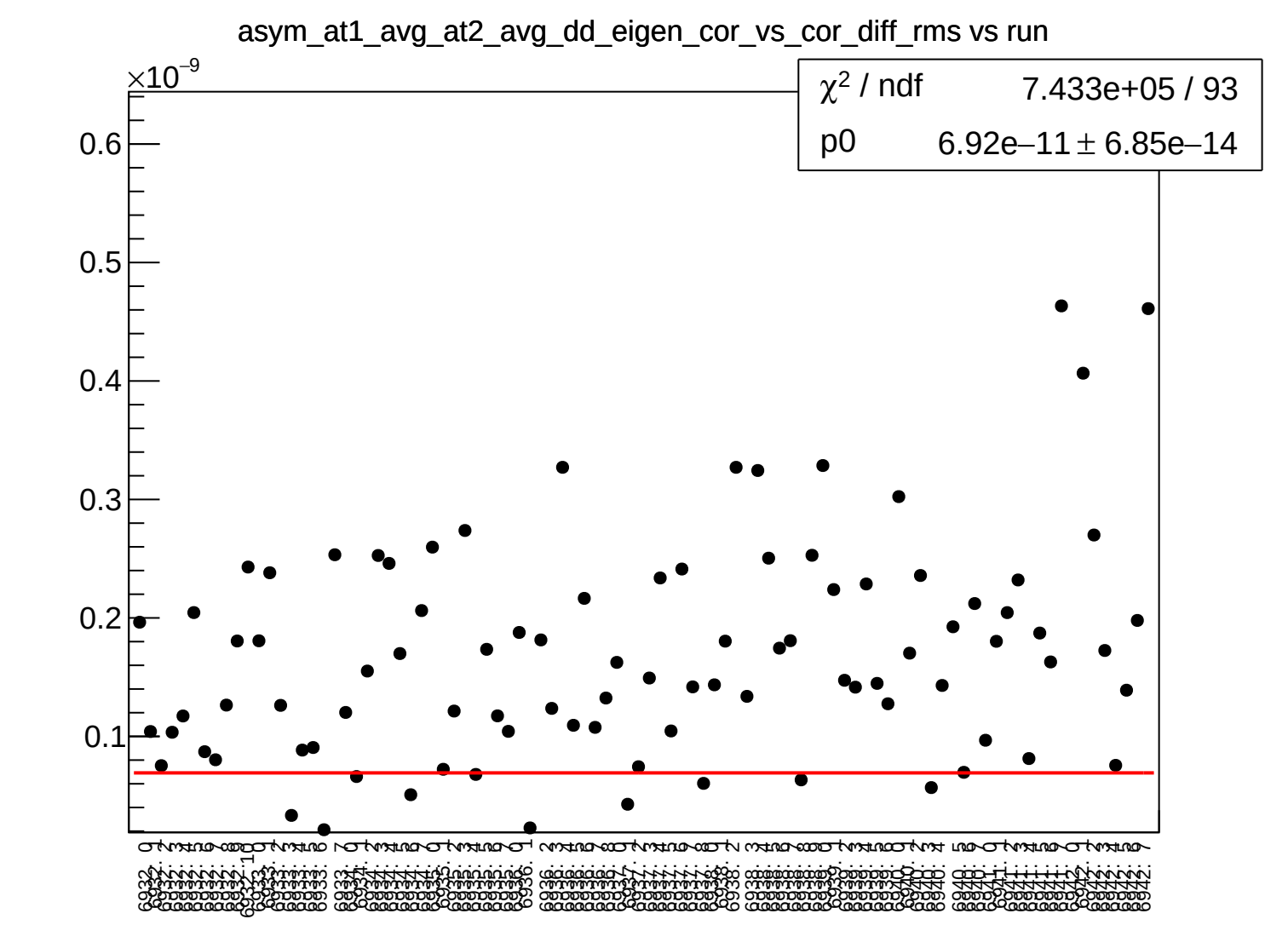

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

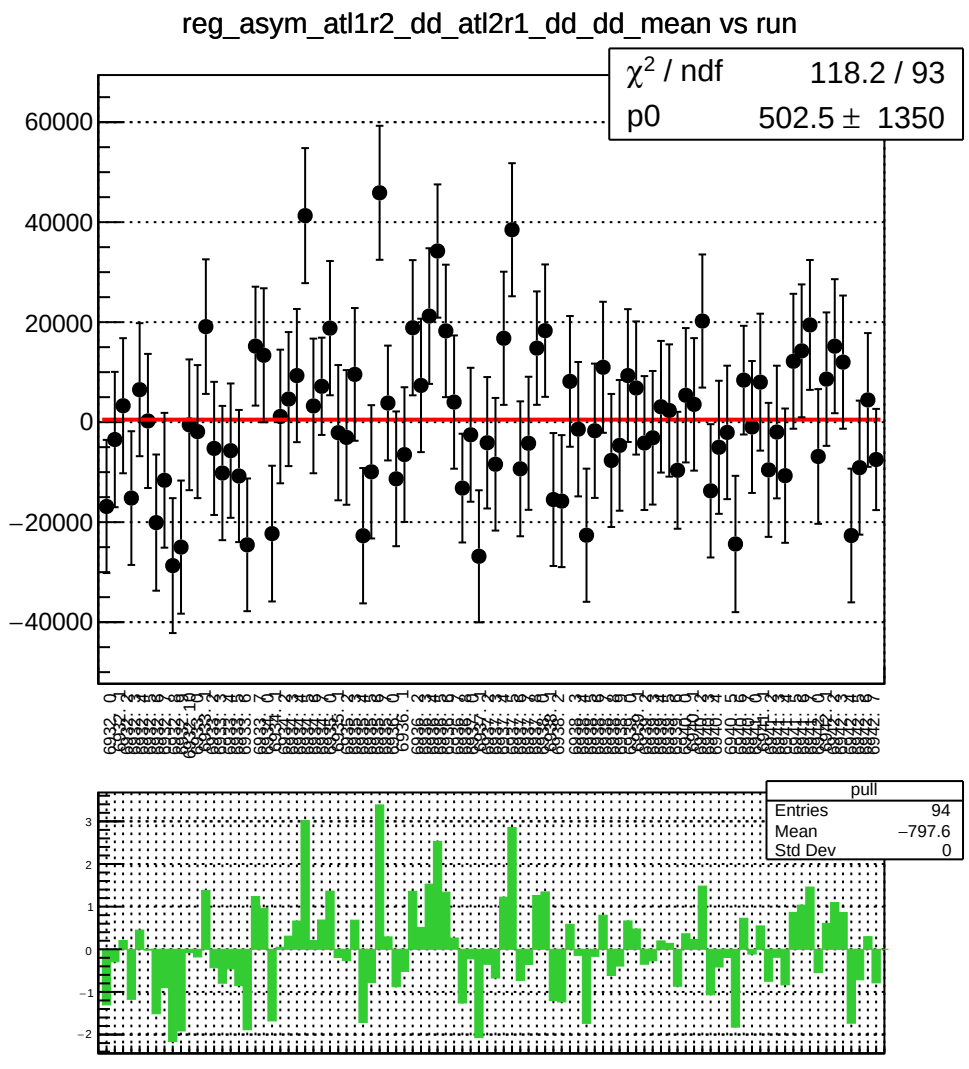

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

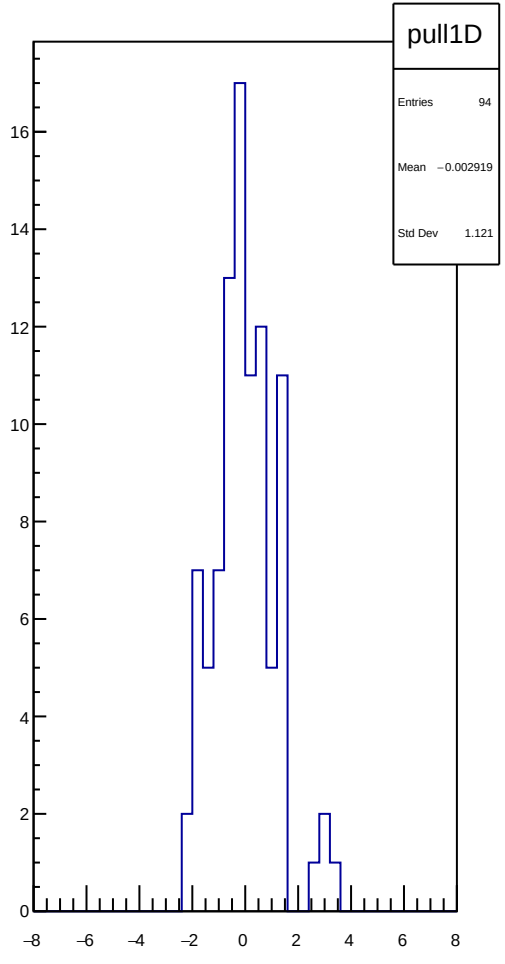

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

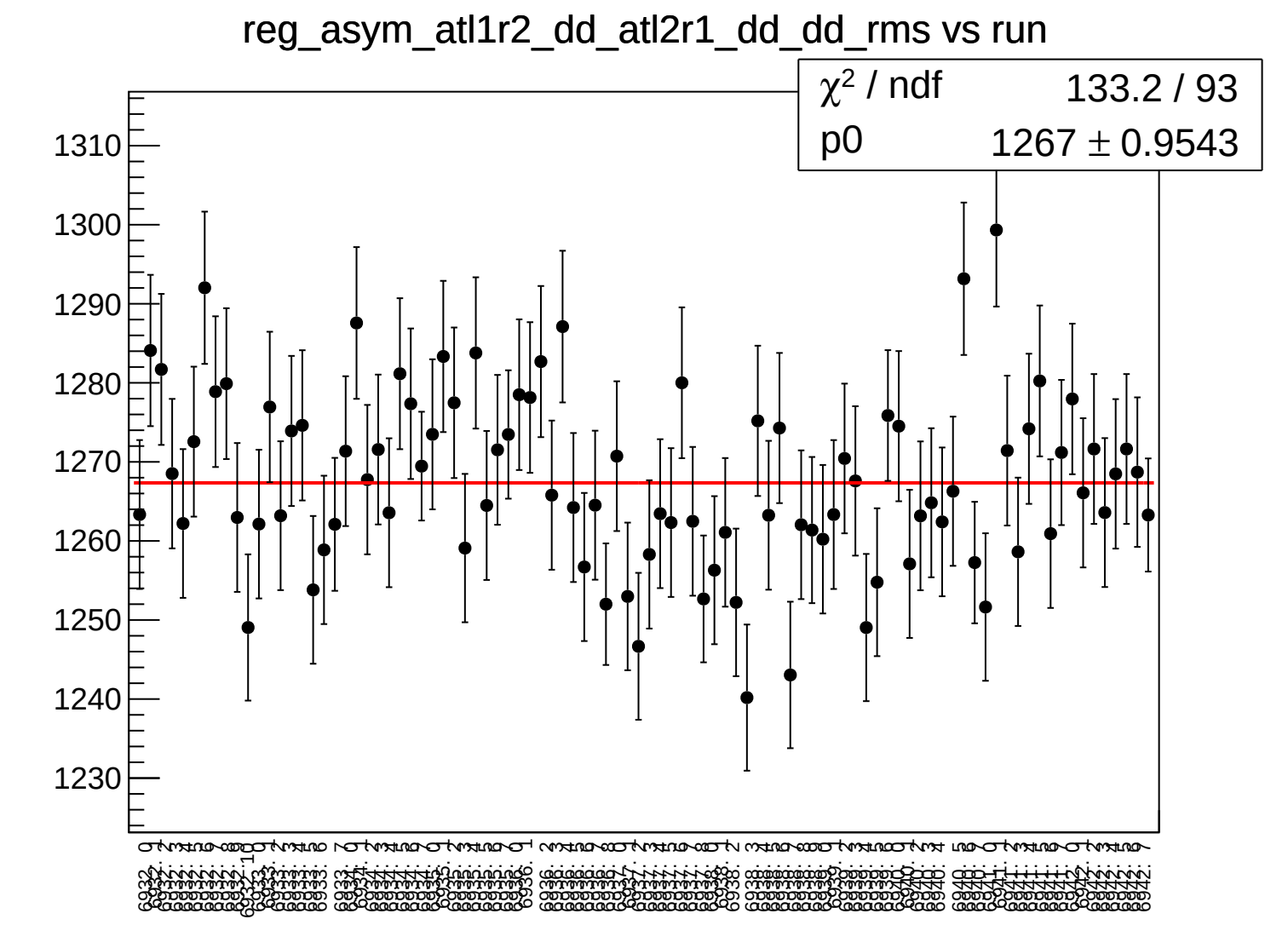

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

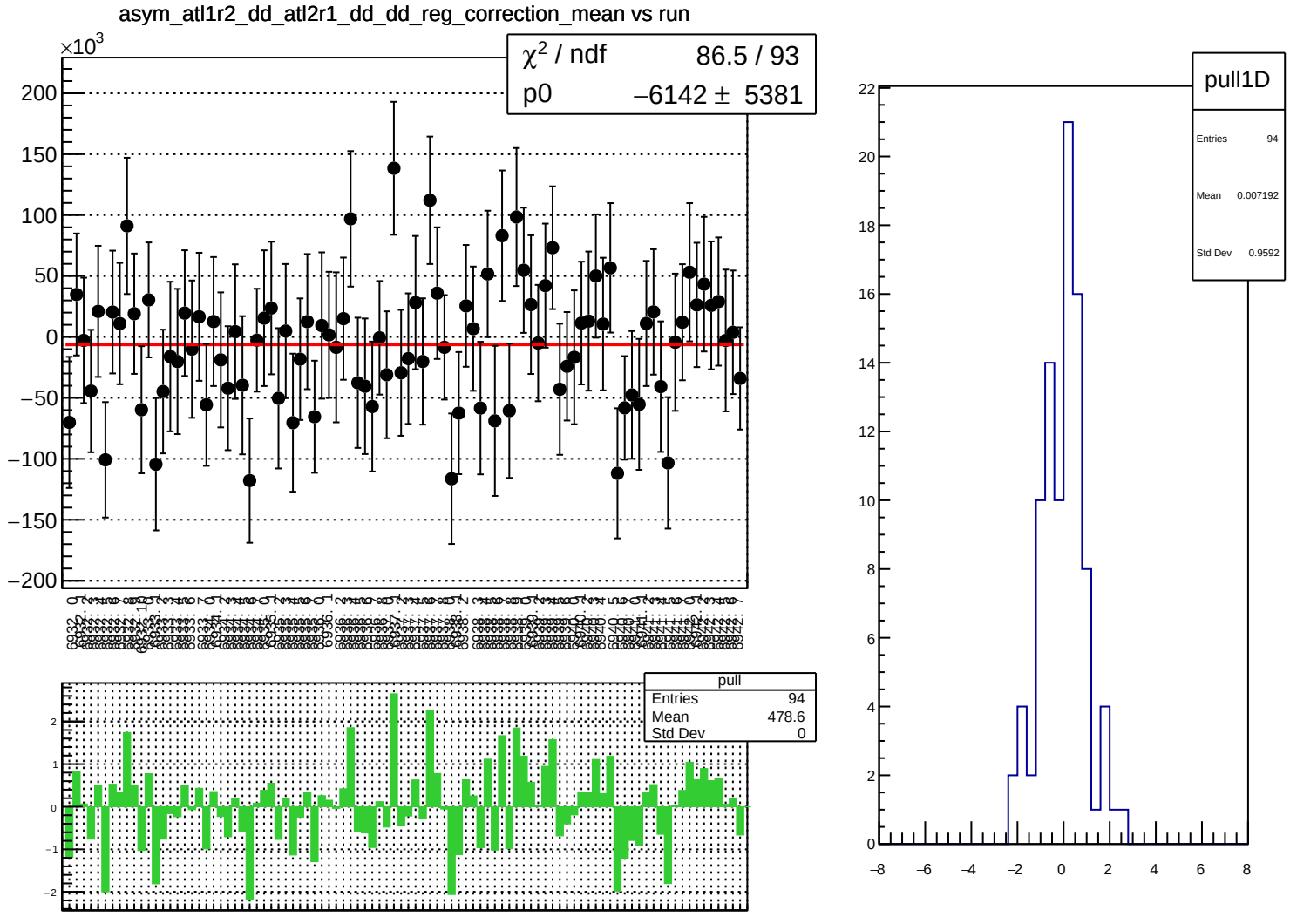

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.96 / 93
p0 4.966e−14 ± 9.688e−14
5
0
−5
−10
−15
pull
Entries 94
Mean 89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.1545
Std Dev 0.9549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

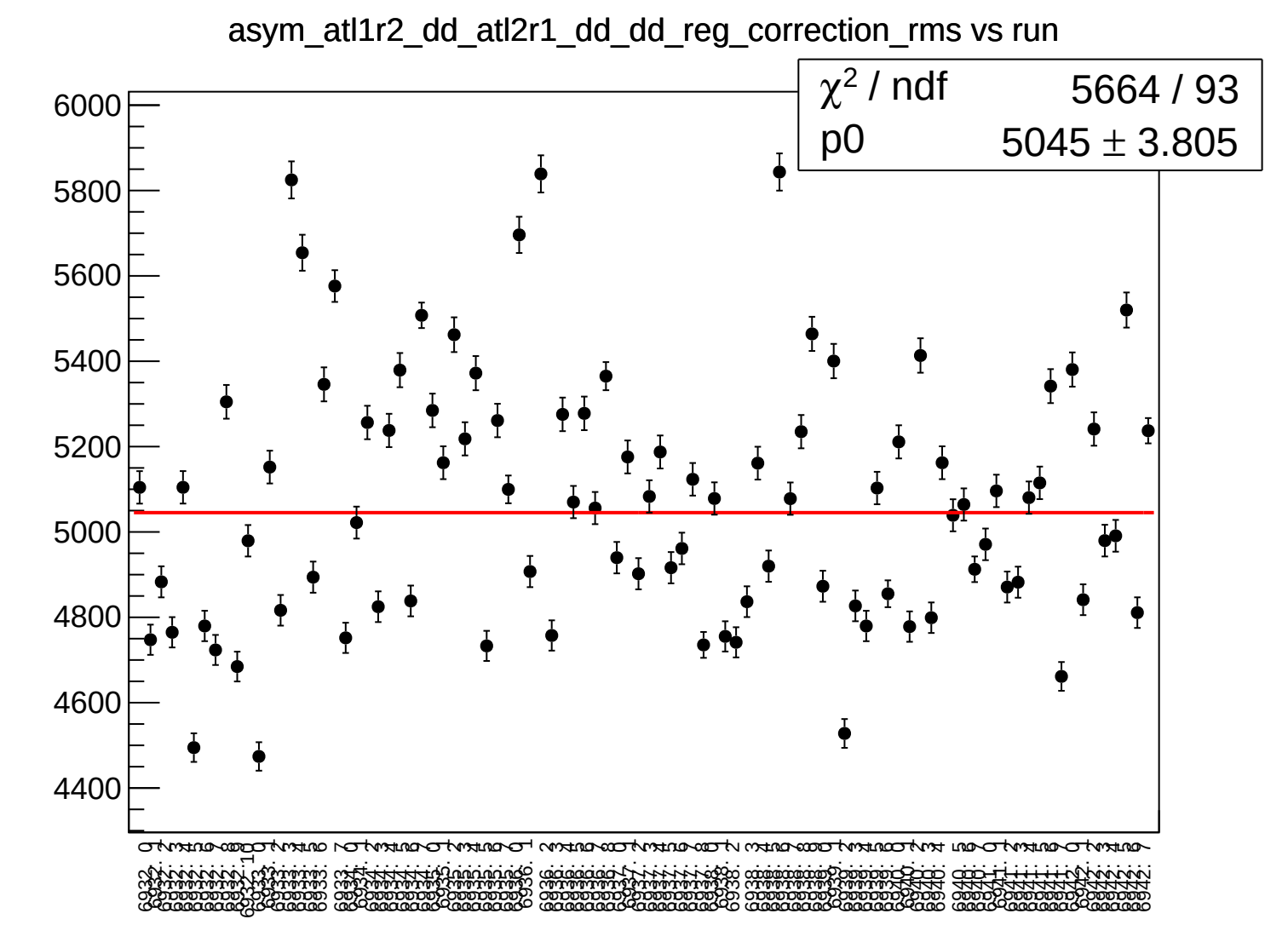

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.433e+05 / 93
p0 6.92e−11 ± 6.85e−14
0.6
0.5
0.4
0.3
0.2
0.1

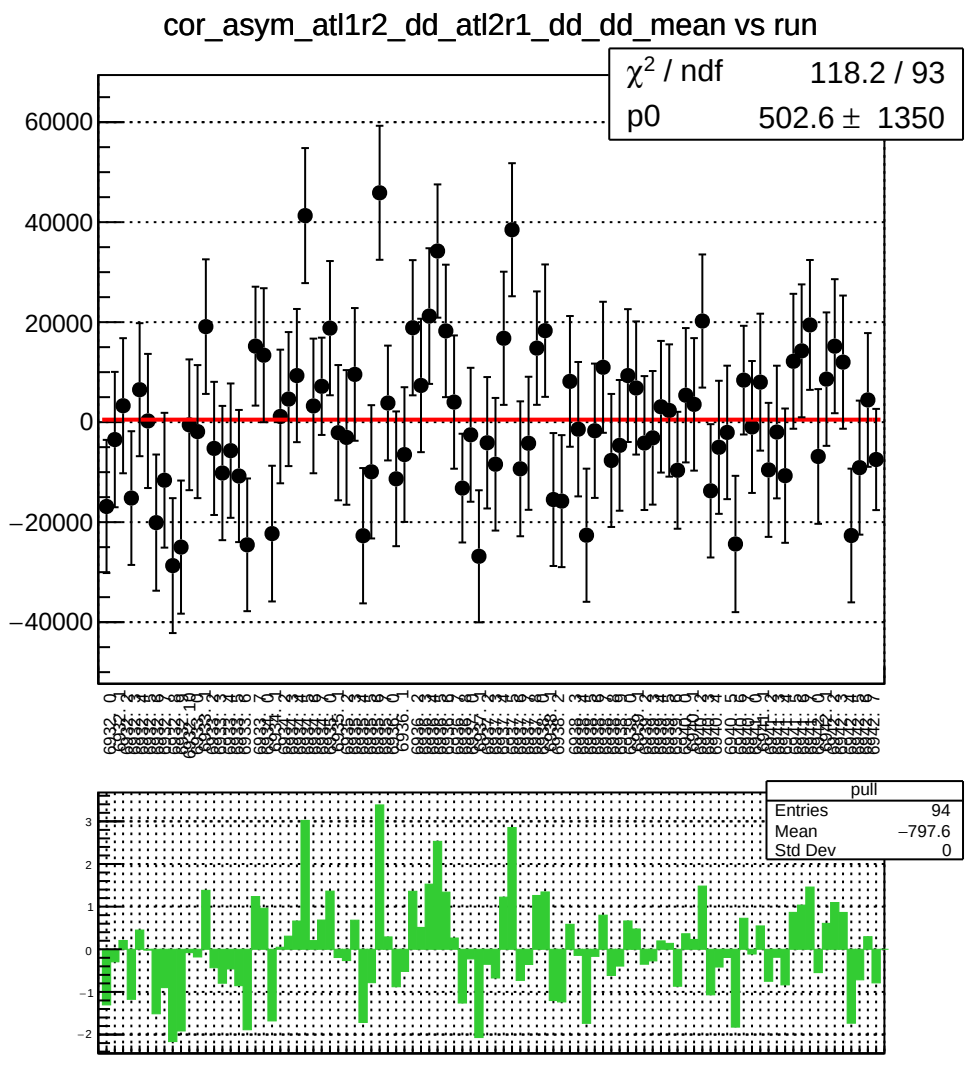

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.5 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

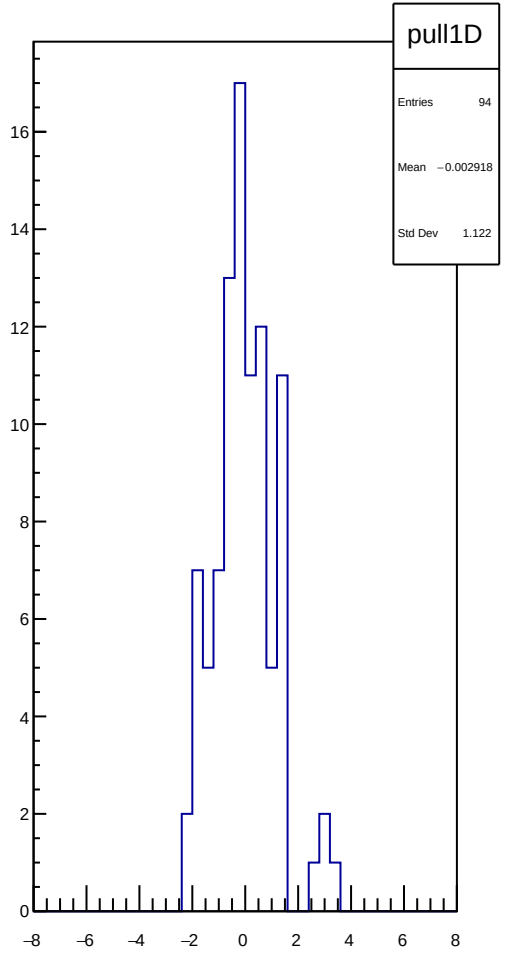

pull1D
Entries 94
Mean −0.002919
Std Dev 1.121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

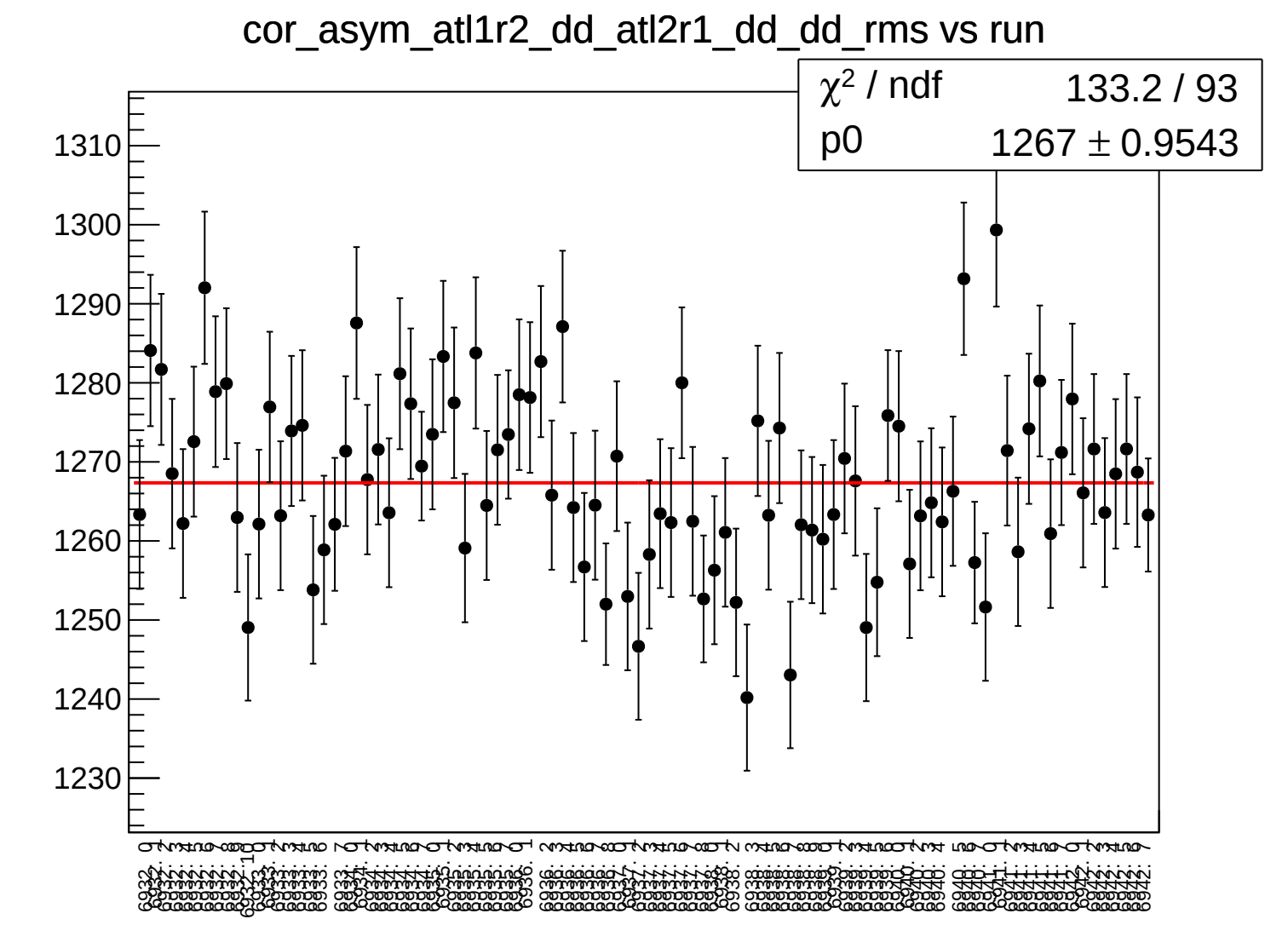

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

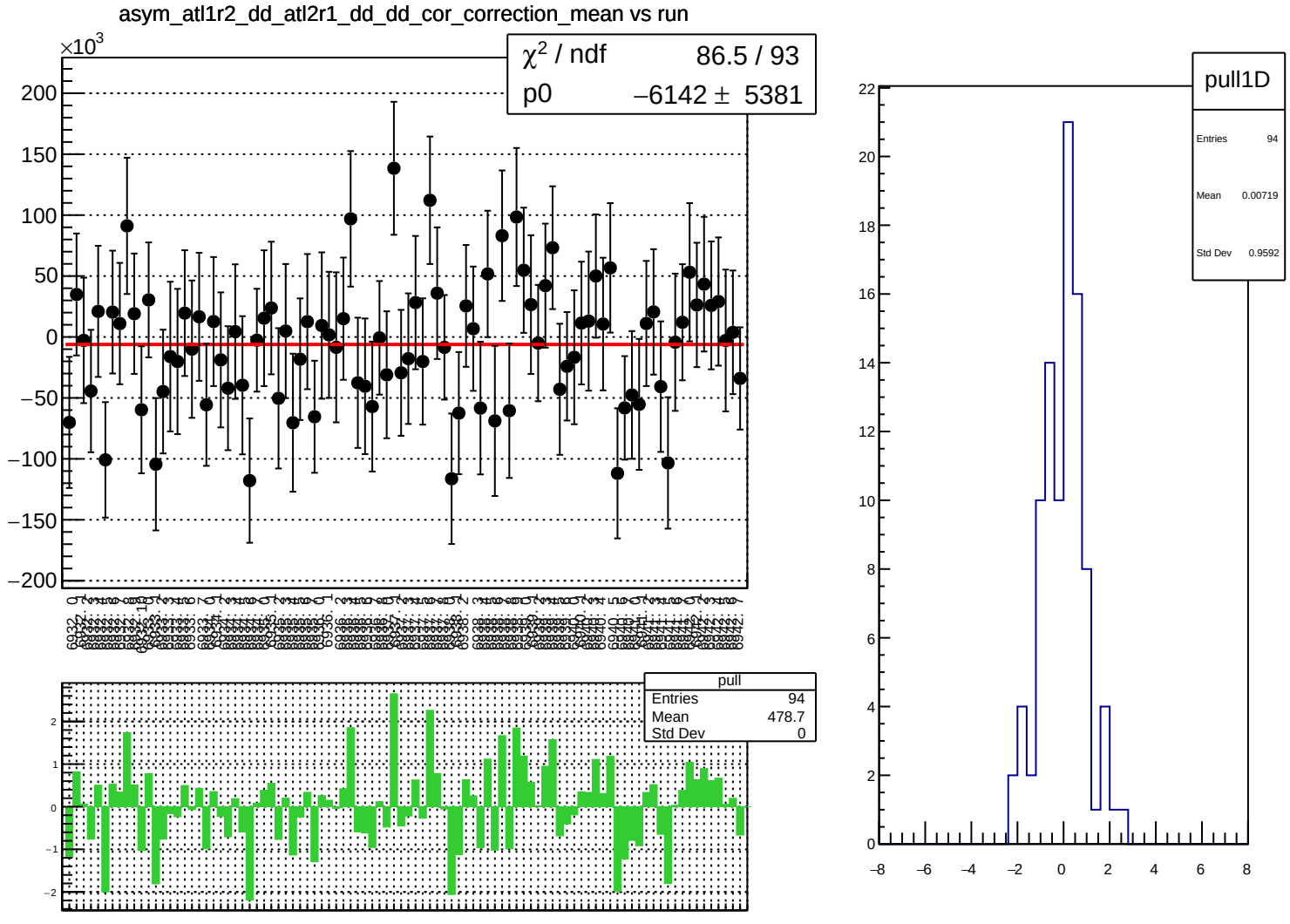

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.6
Std Dev 0
pull1D
Entries 94
Mean 0.007192
Std Dev 0.9592

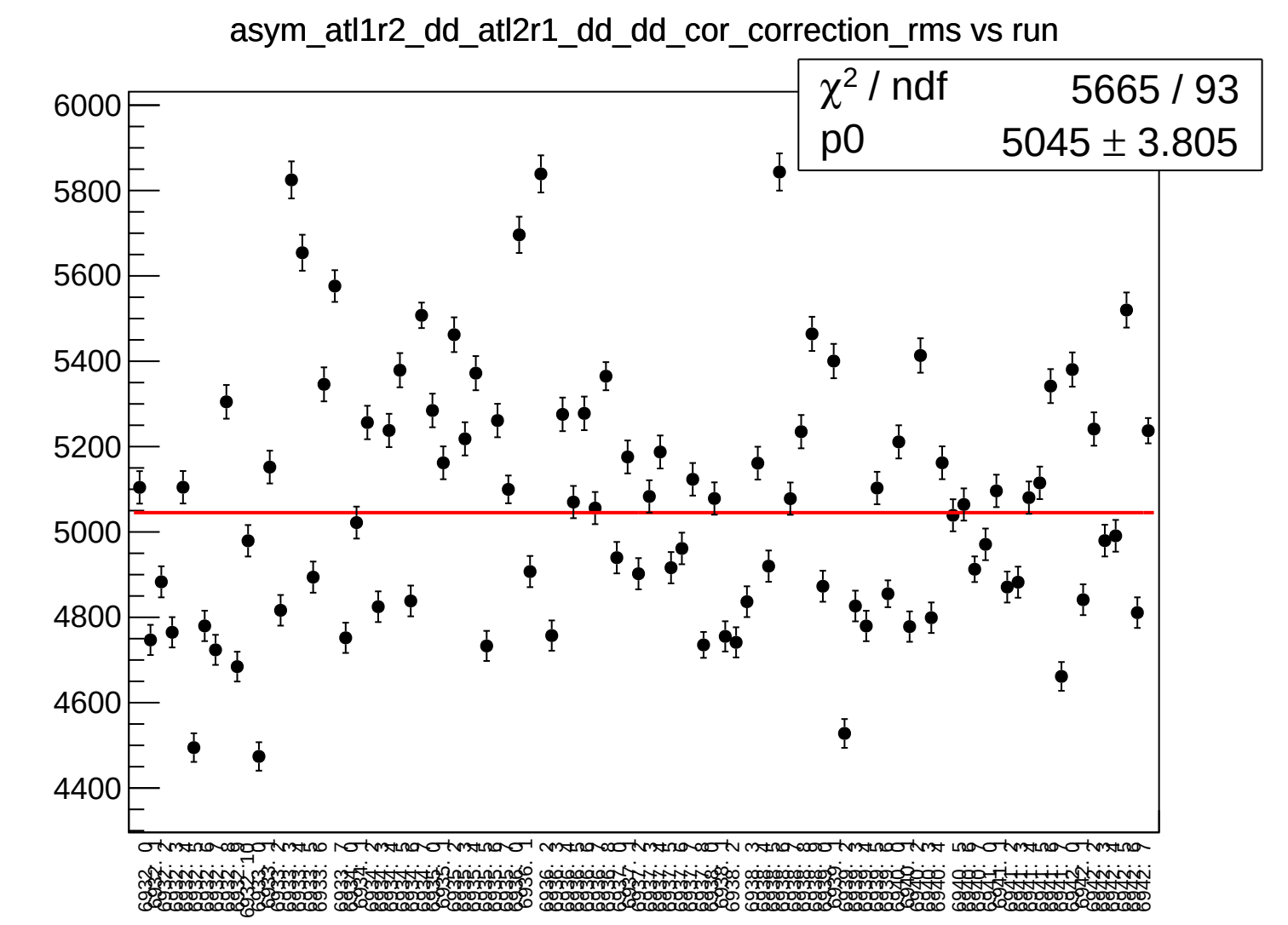

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5664 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

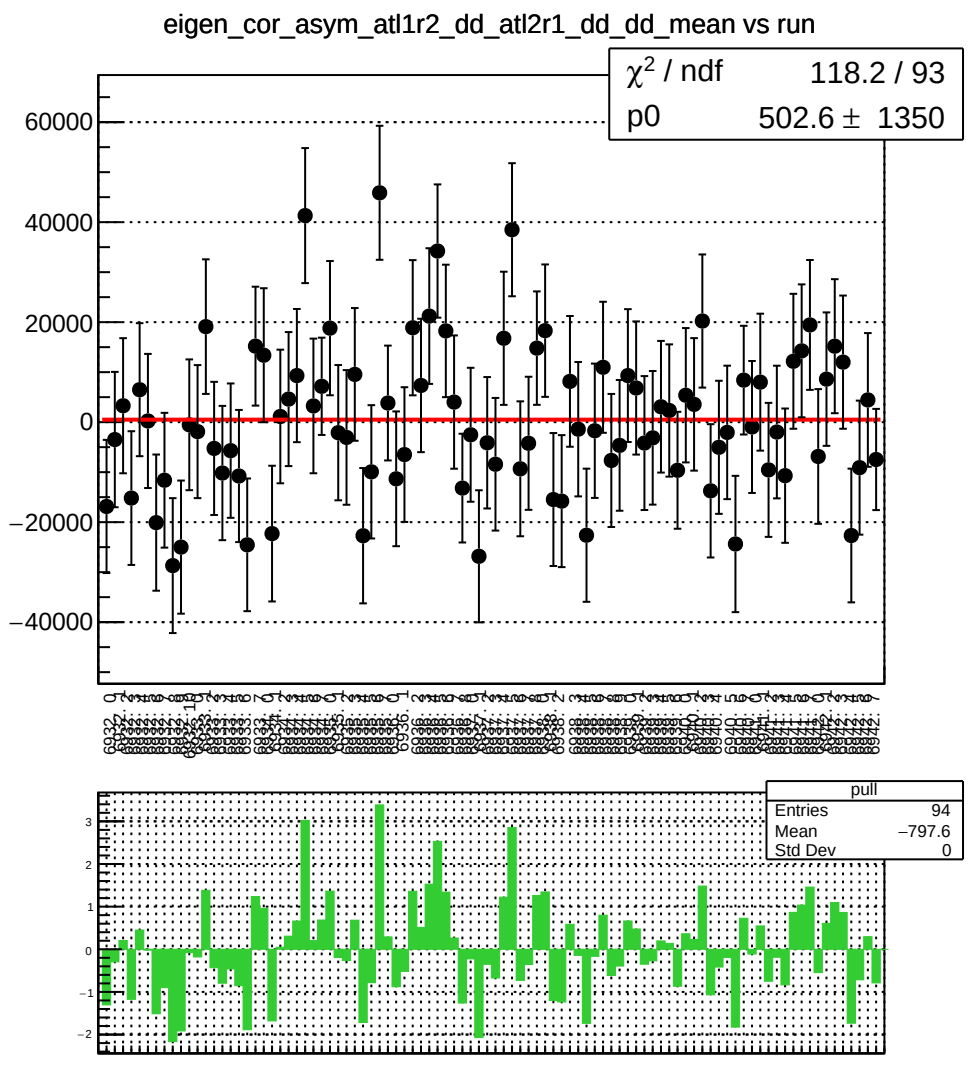

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

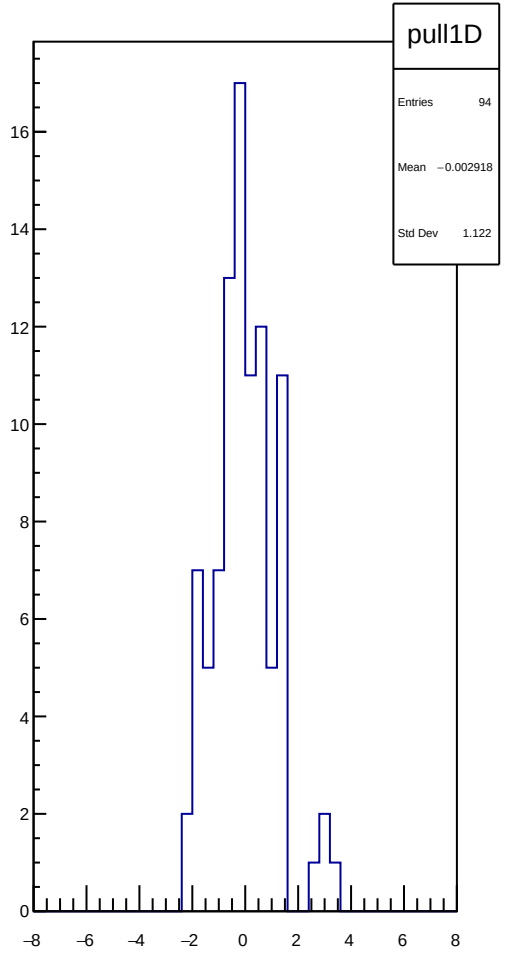

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

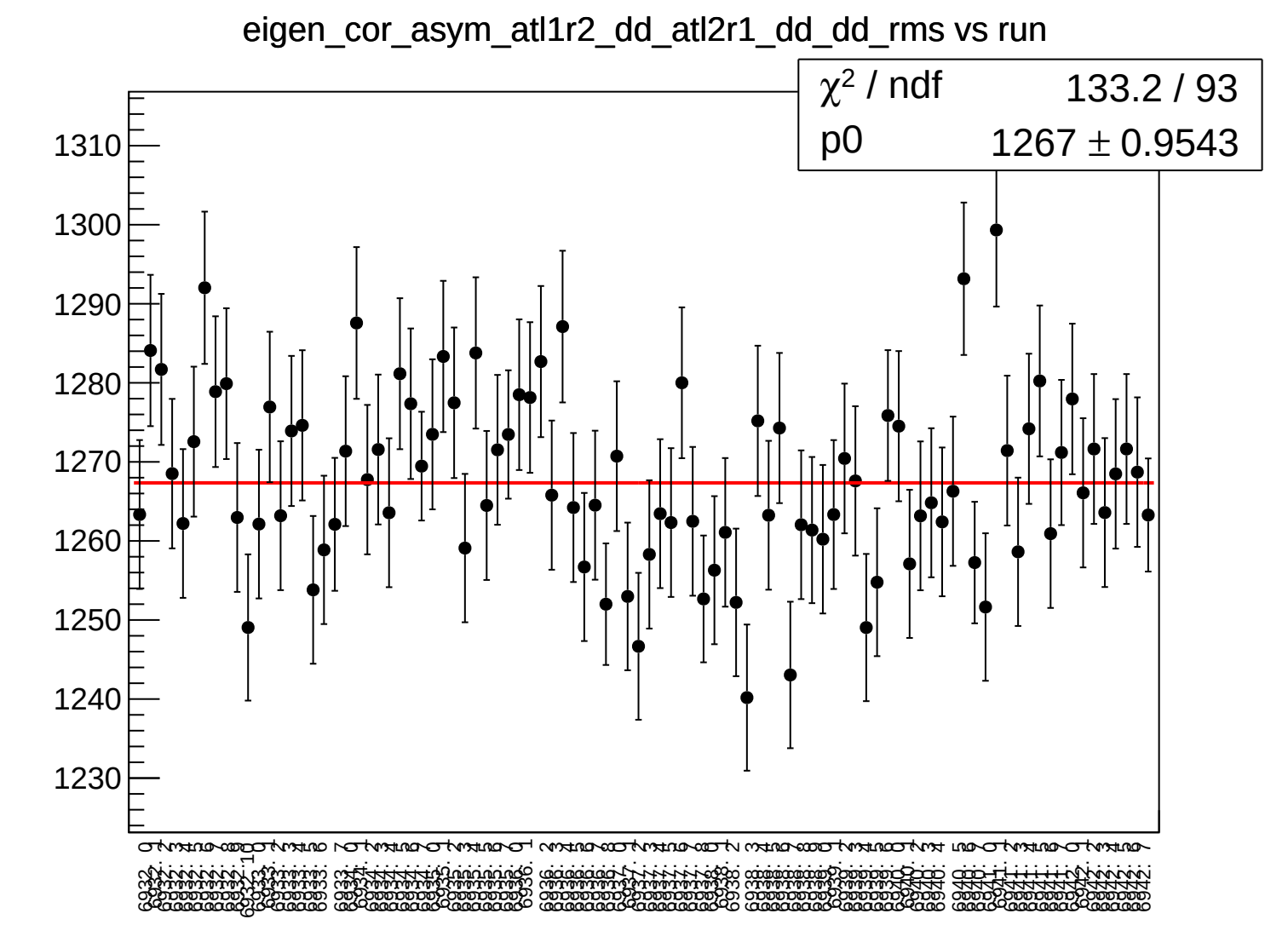

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

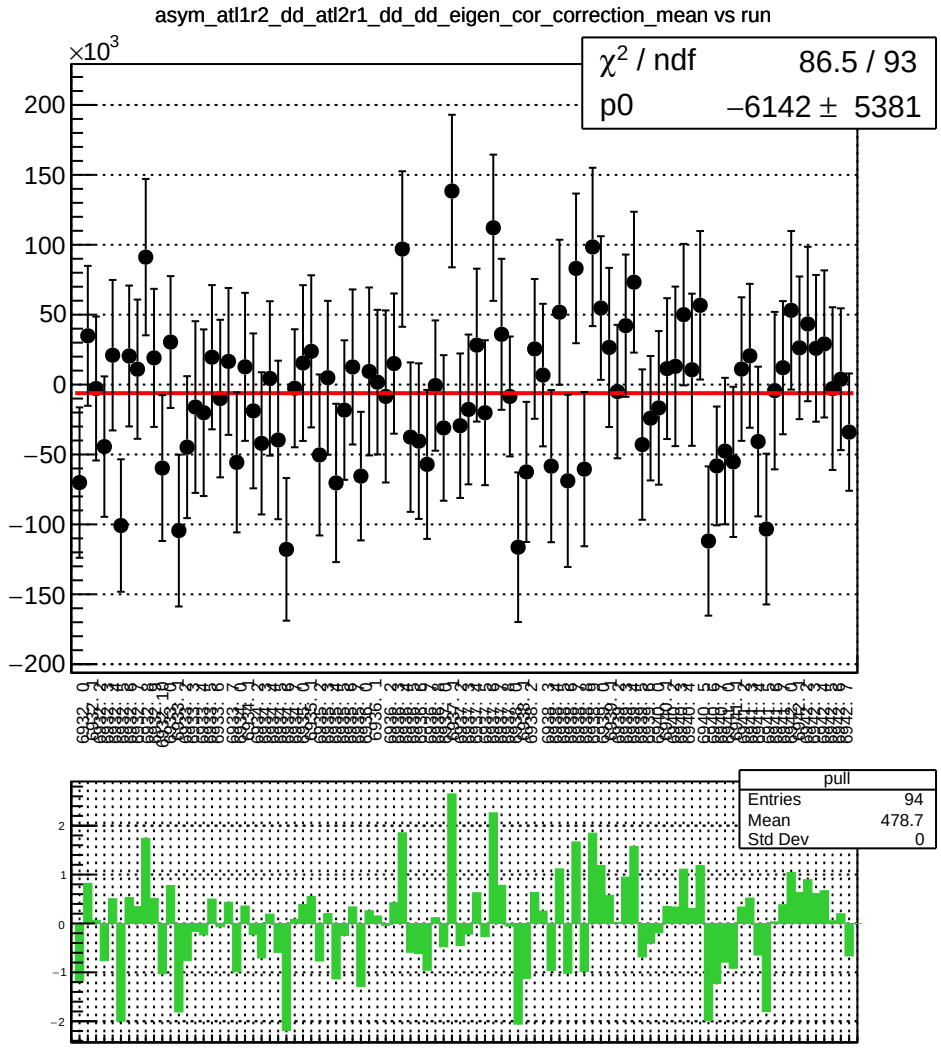

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
×10³
pull
Entries 94
Mean 478.7
Std Dev 0
pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592

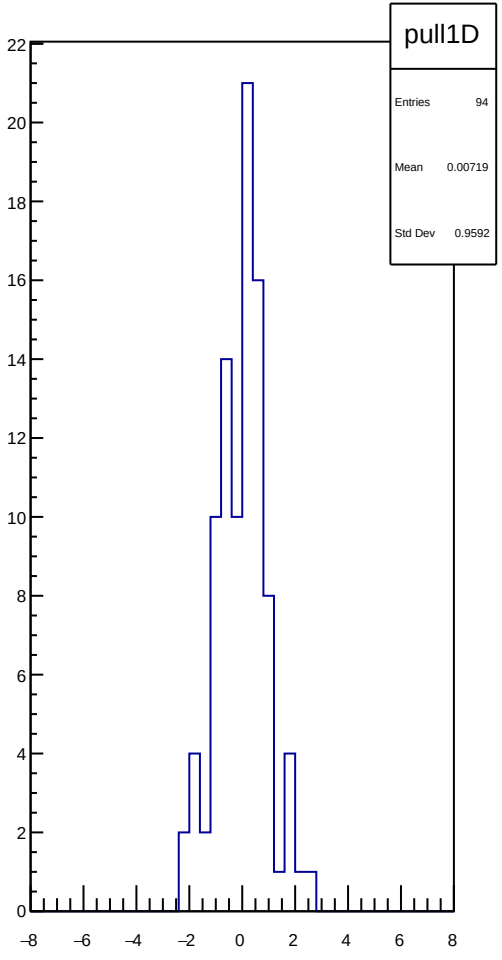

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

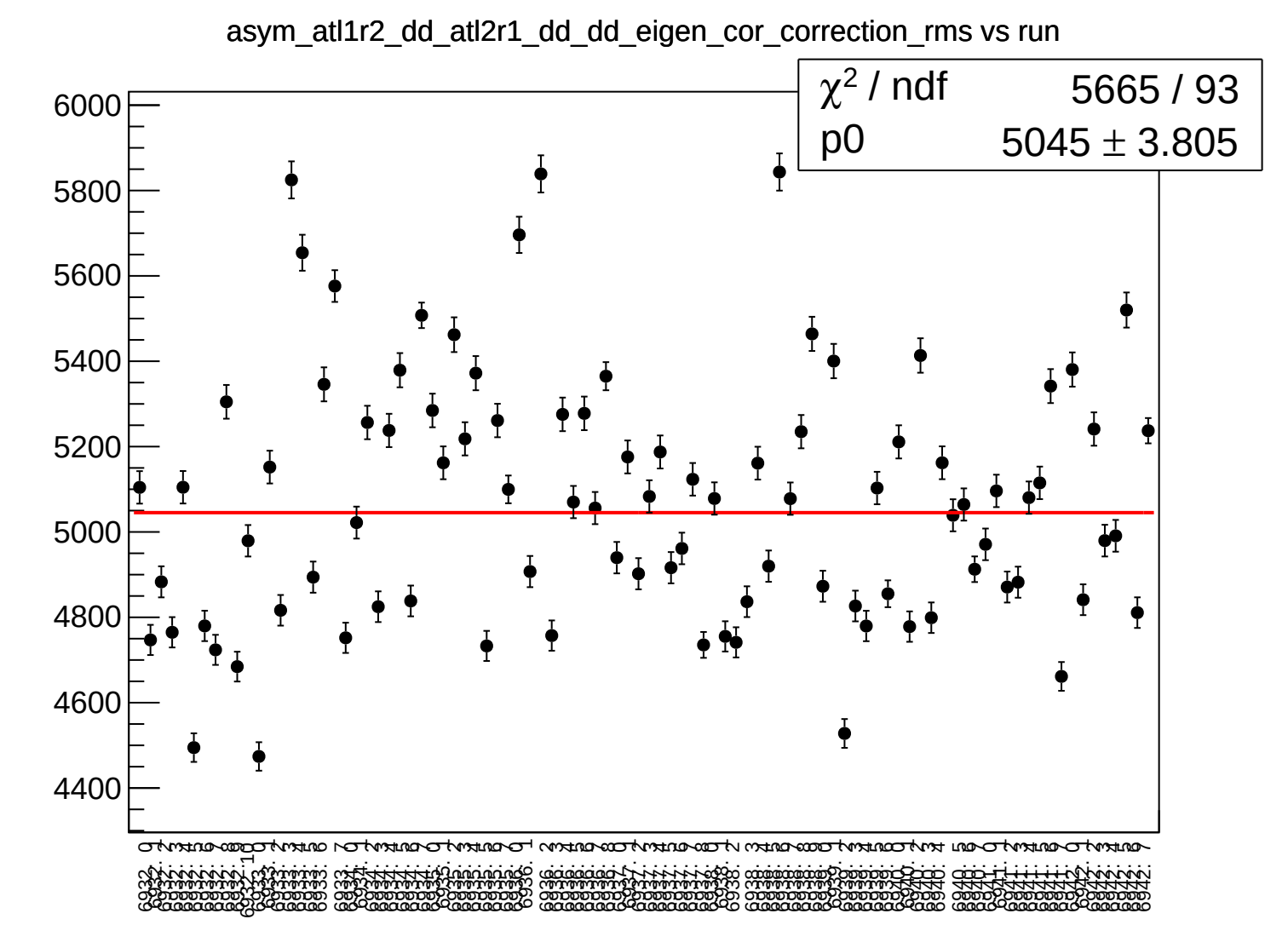

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 118.2 / 93
p0 502.6 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −797.6
Std Dev 0
3
2
1
0
−1
−2

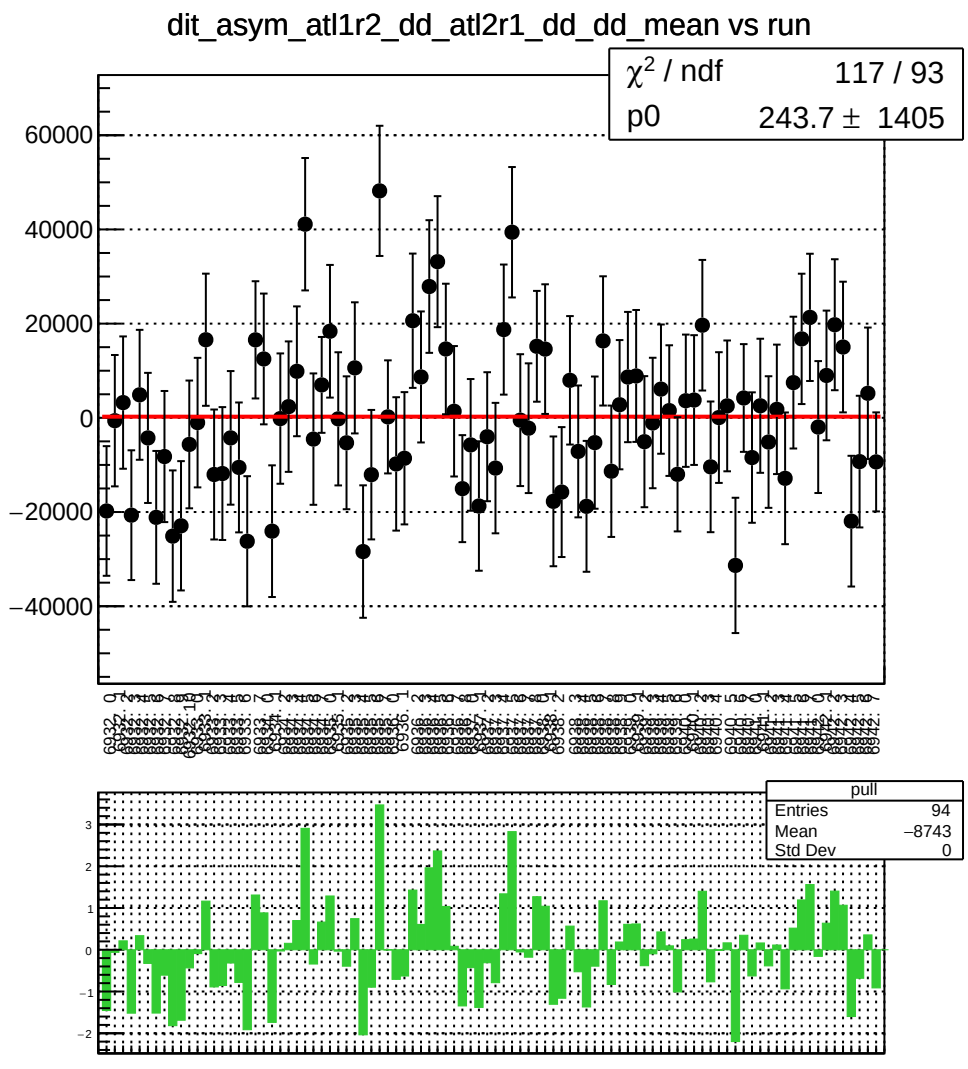

pull1D
Entries 94
Mean −0.002918
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

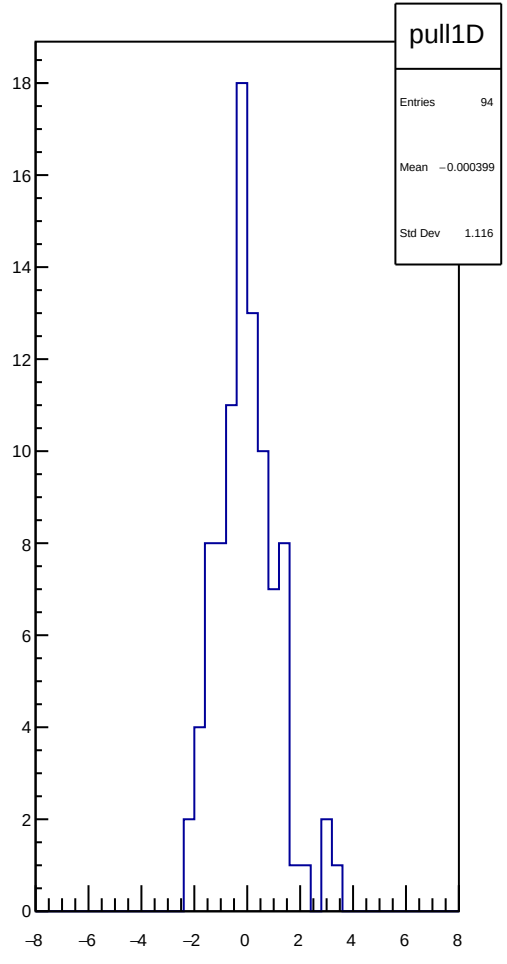

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 133.2 / 93
p0 1267 ± 0.9543
1310
1300
1290
1280
1270
1260
1250
1240
1230

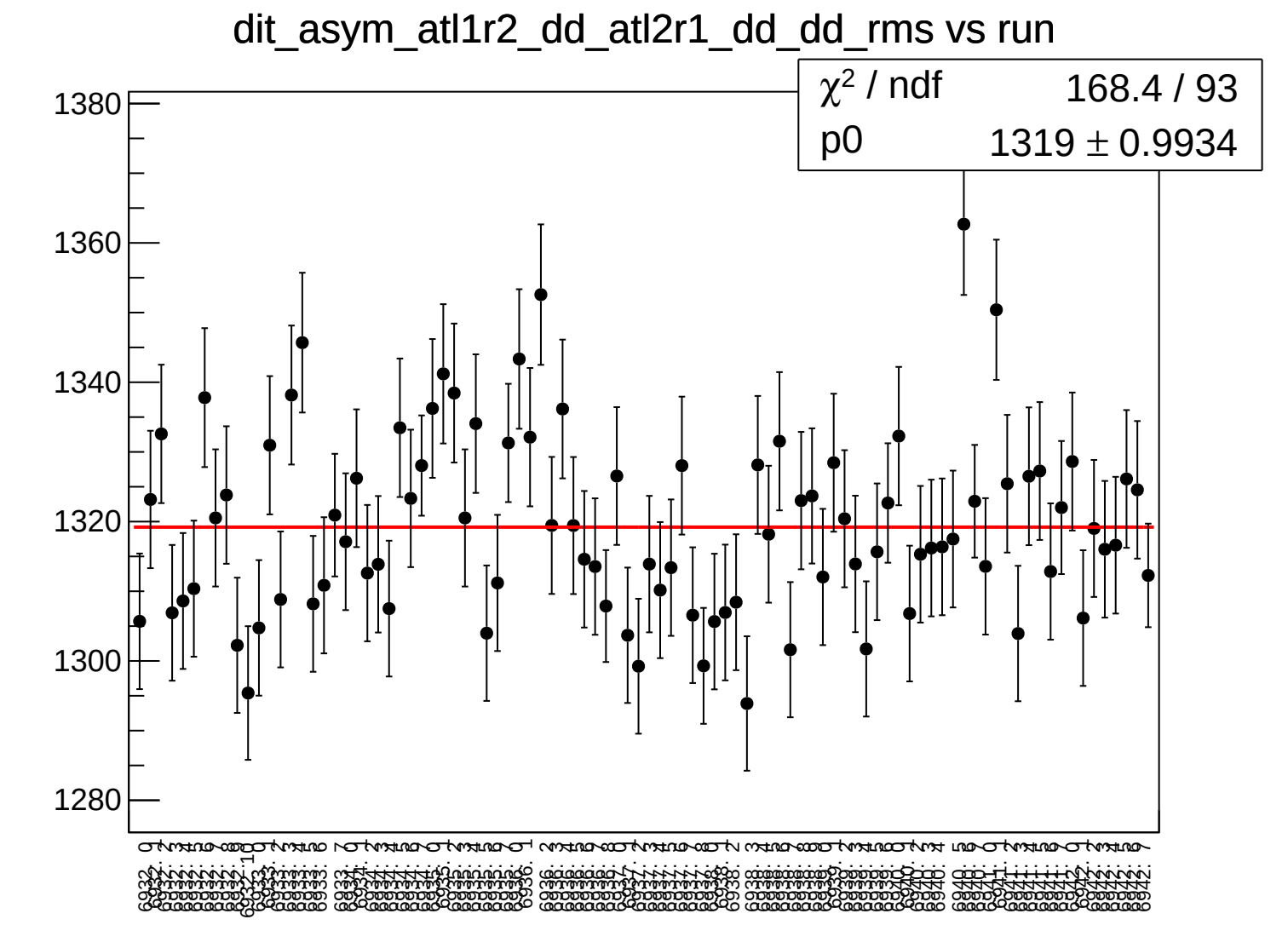

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −6142 ± 5381
pull
Entries 94
Mean 478.7
Std Dev 0

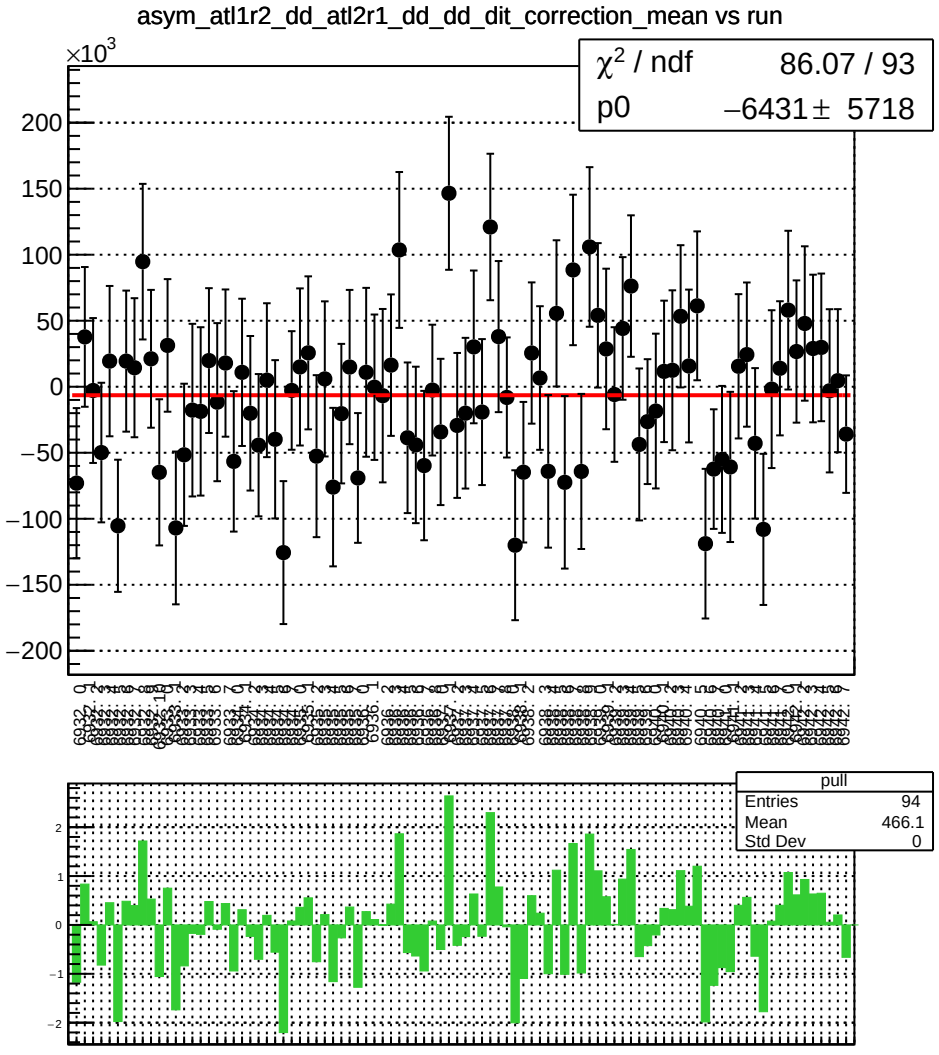

pull1D
Entries 94
Mean 0.00719
Std Dev 0.9592

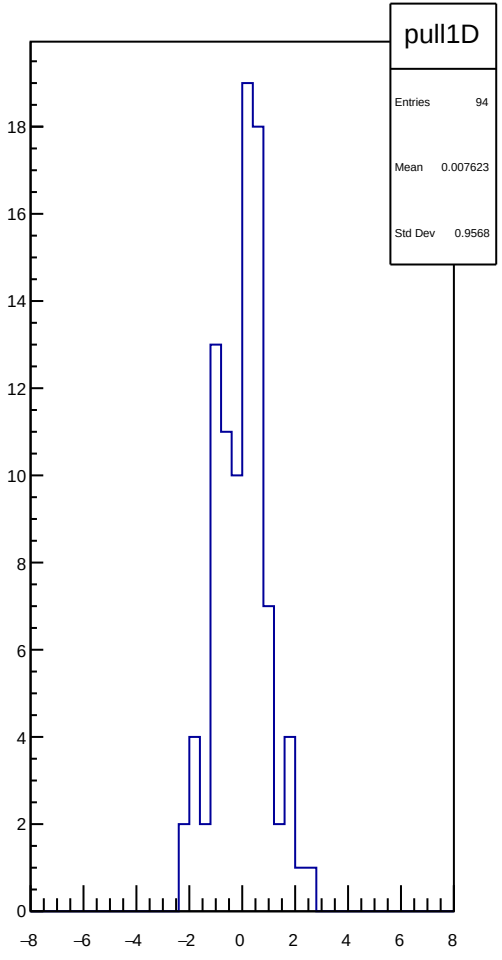

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5665 / 93
p0 5045 ± 3.805
6000
5800
5600
5400
5200
5000
4800
4600
4400

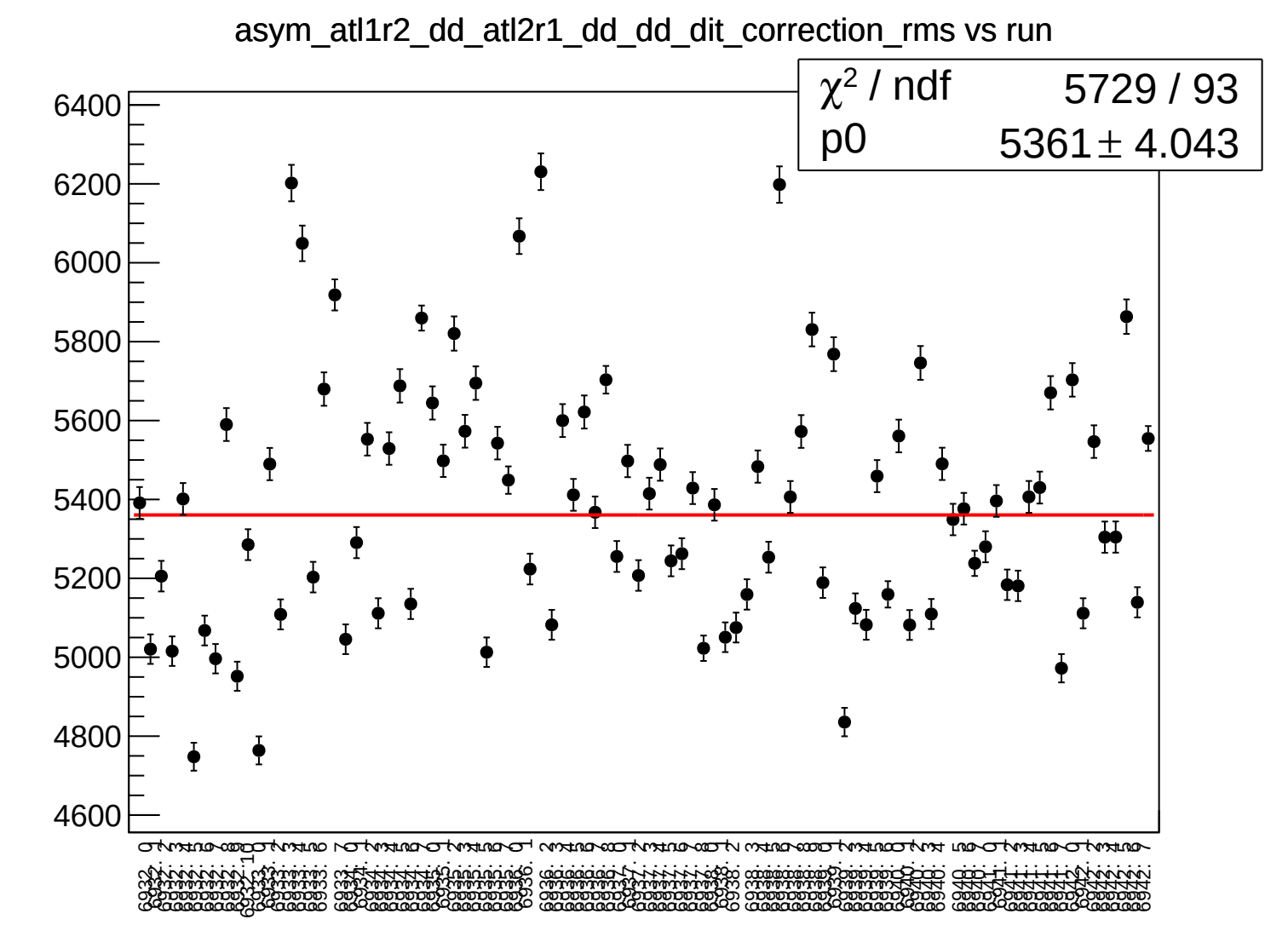

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

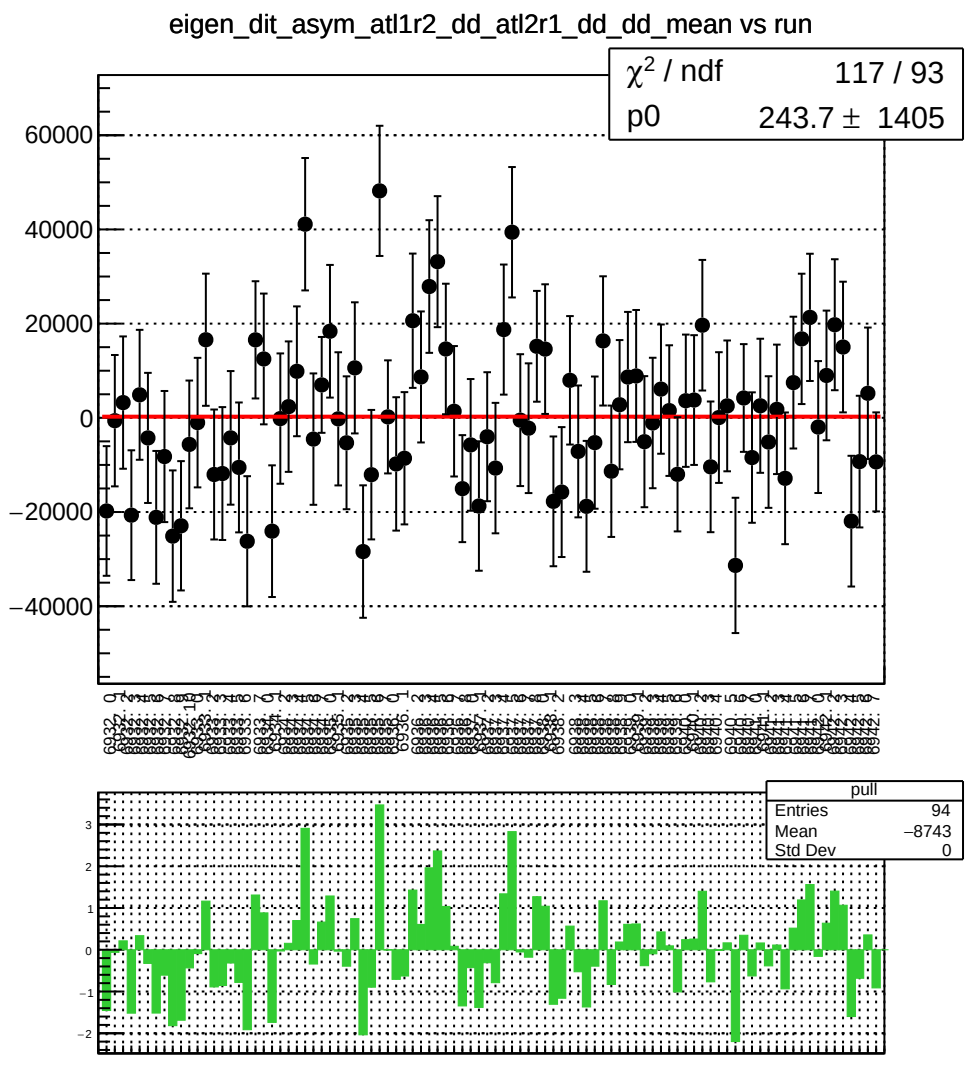

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

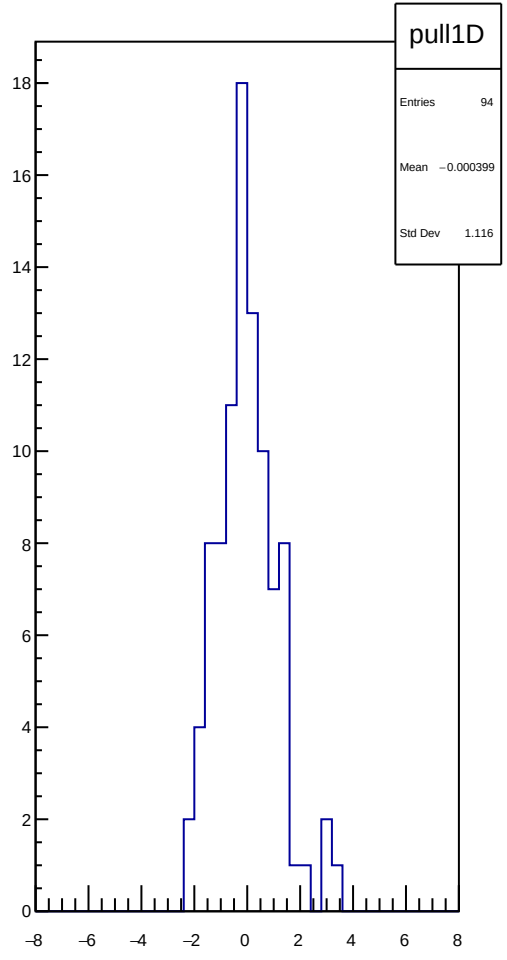

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

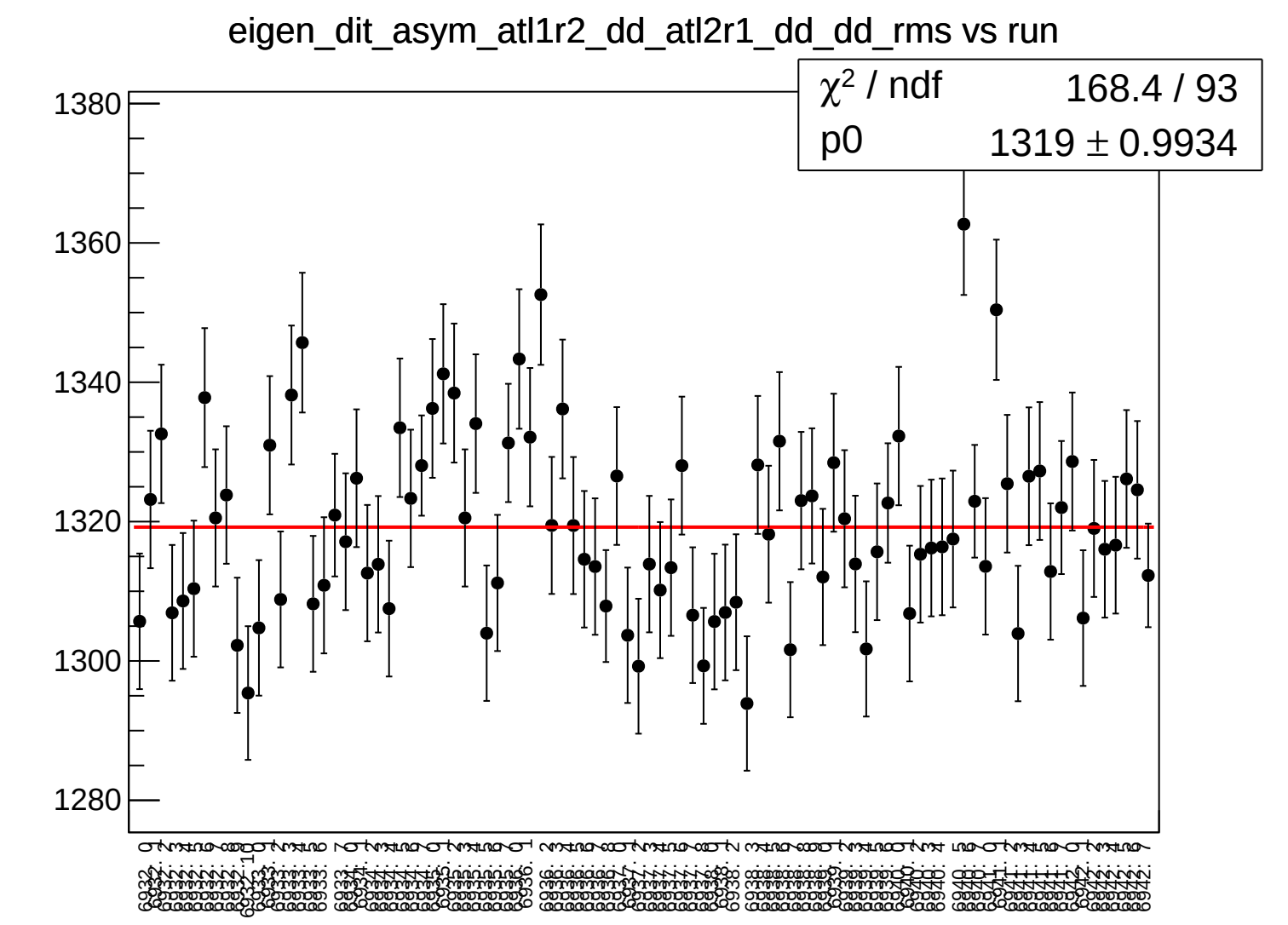

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2

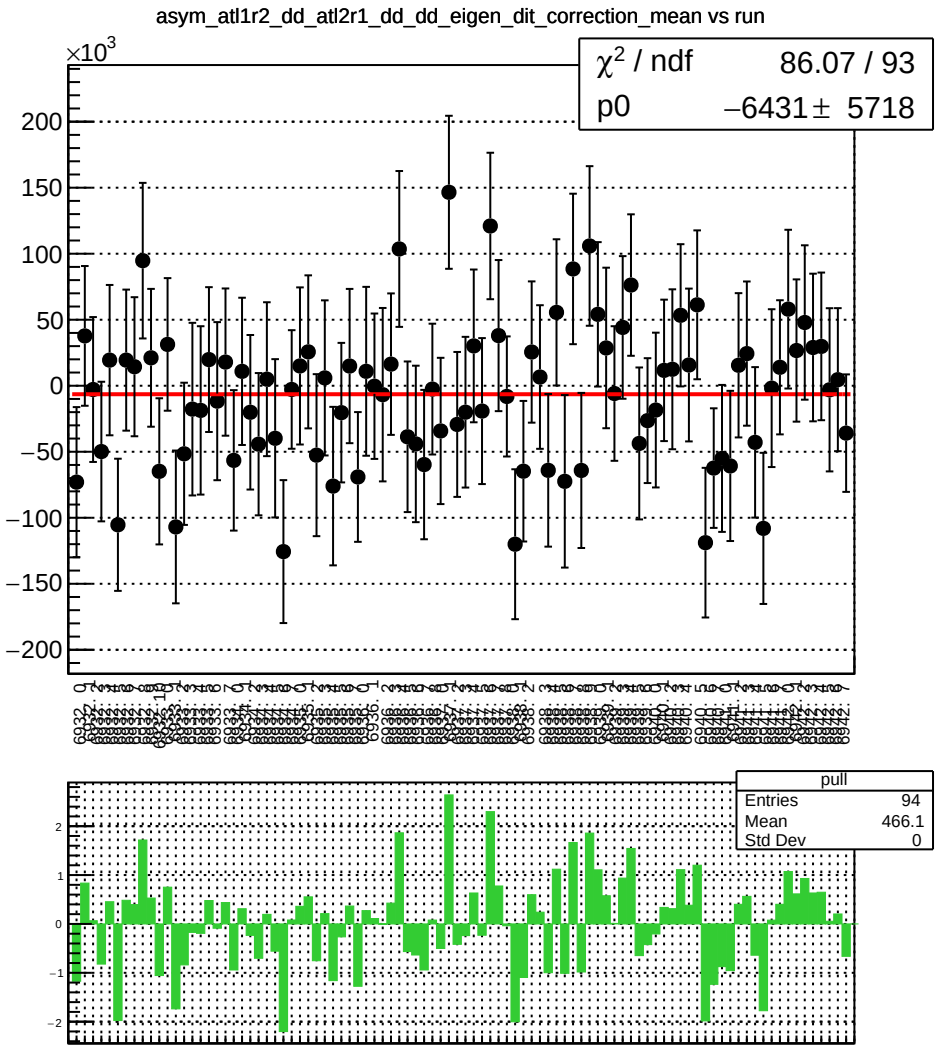

pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

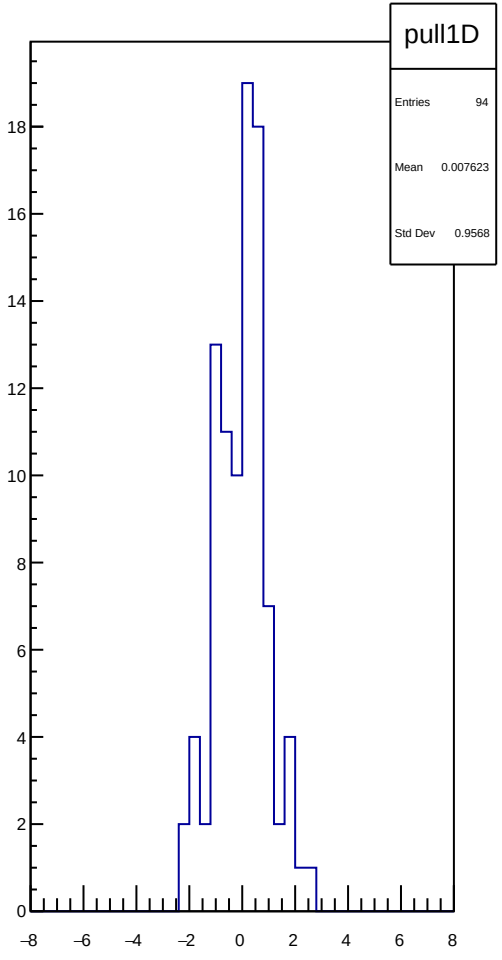

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

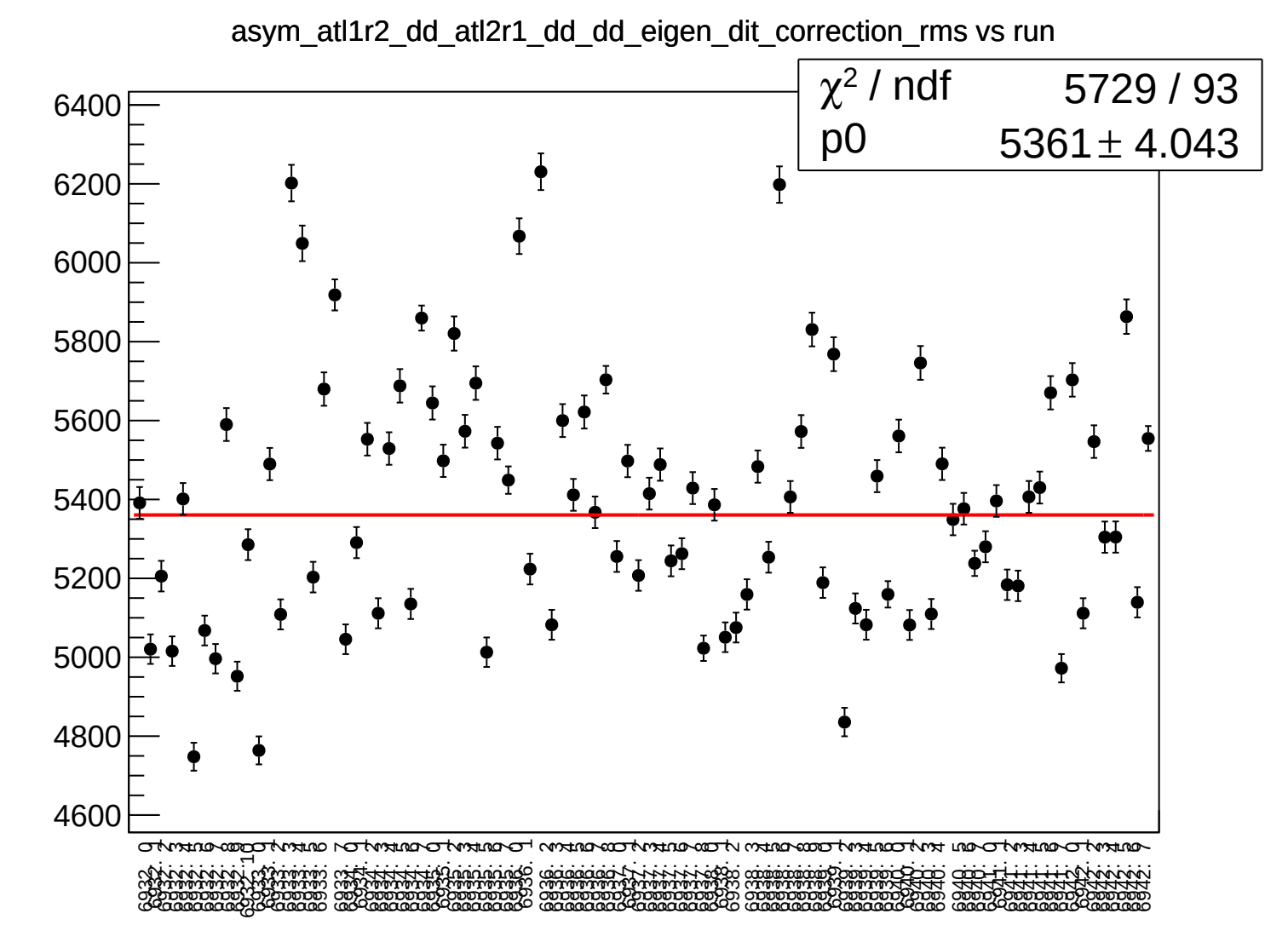

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 117 / 93
p0 243.7 ± 1405
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −8743
Std Dev 0
3
2
1
0
−1
−2

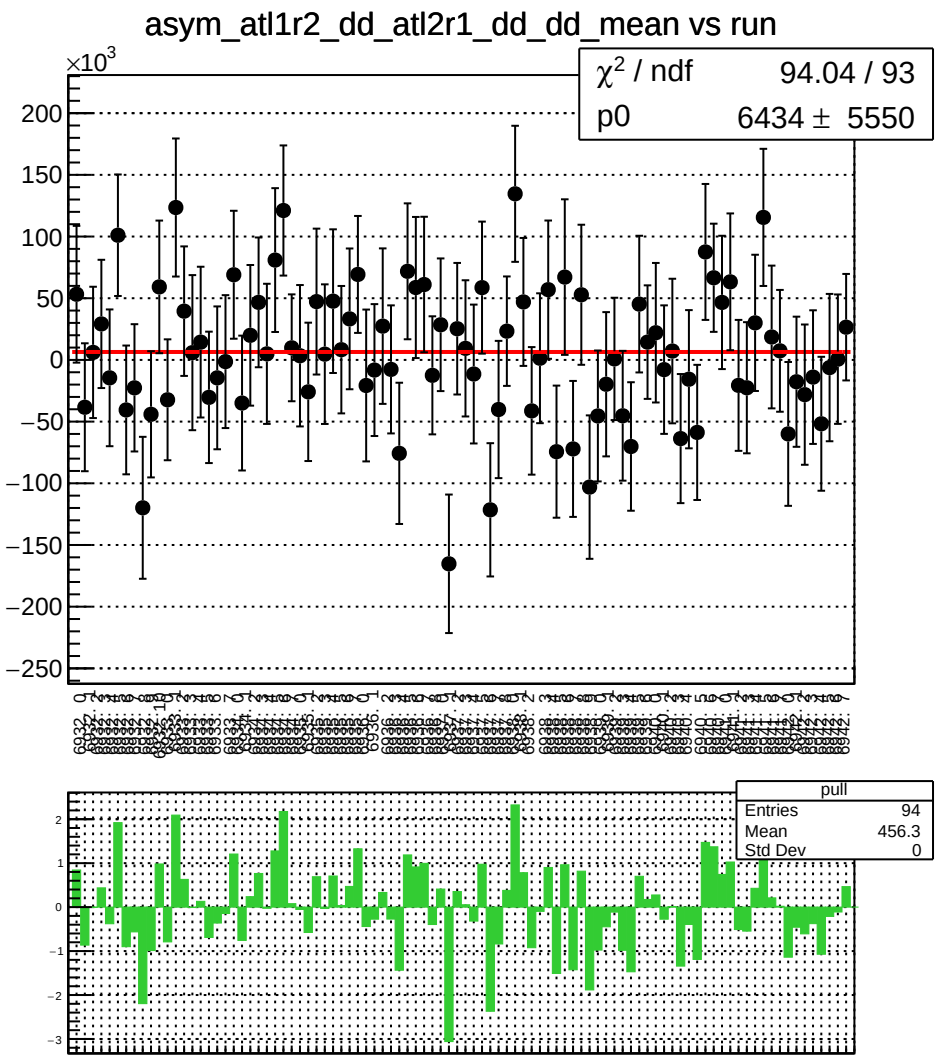

pull1D
Entries 94
Mean −0.000399
Std Dev 1.116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

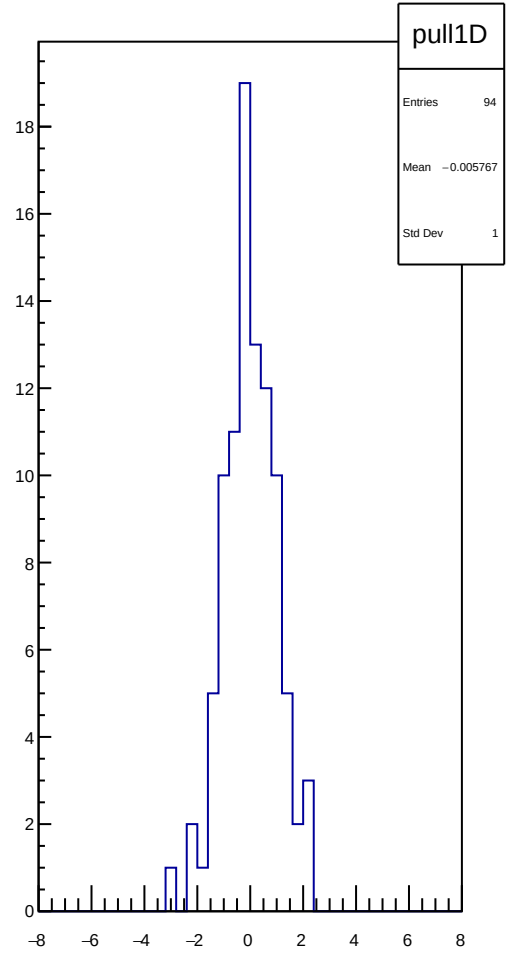

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1319 ± 0.9934
1380
1360
1340
1320
1300
1280

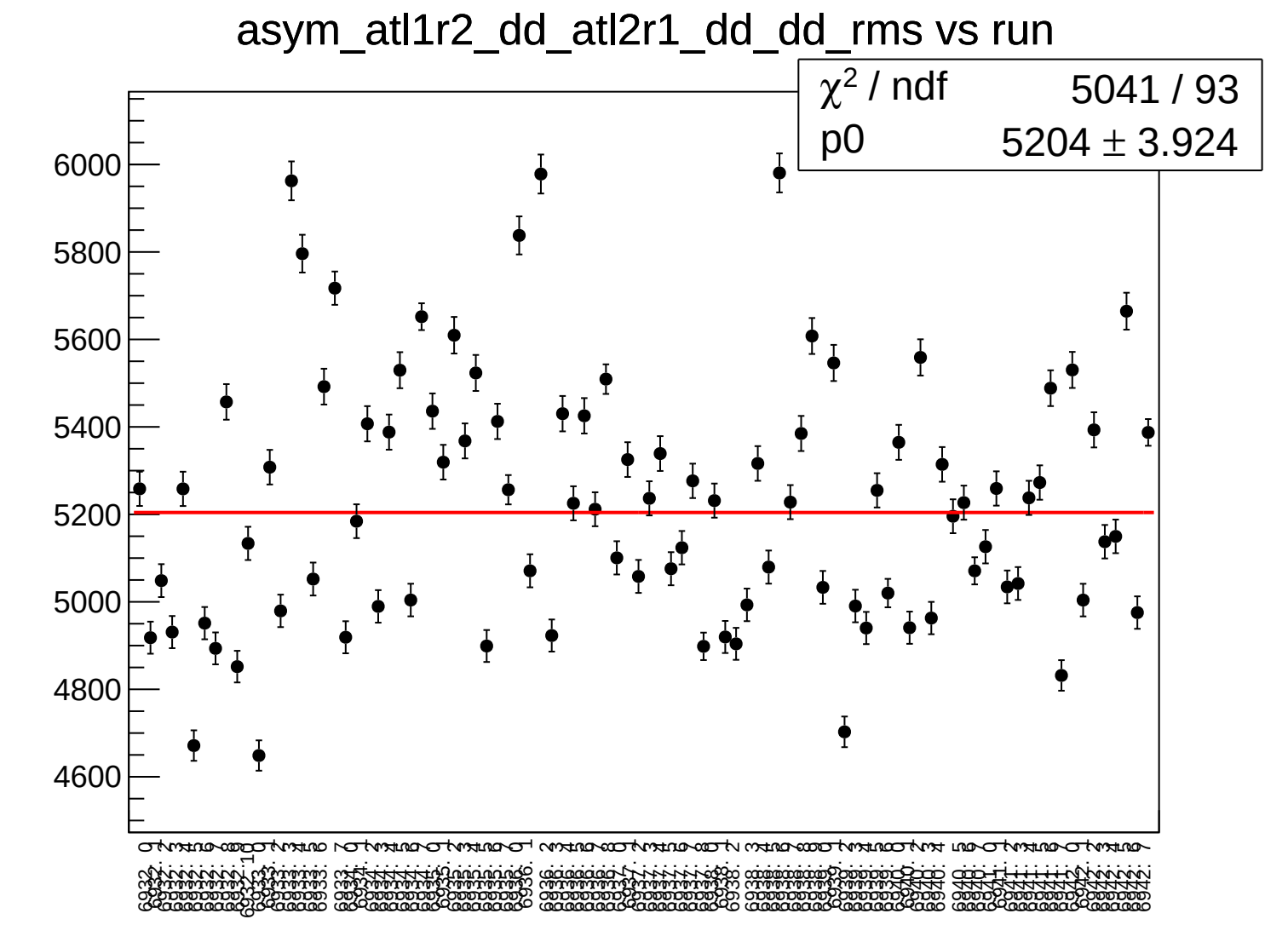

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.07 / 93
p0 −6431 ± 5718
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 466.1
Std Dev 0
2
1
0
−1
−2

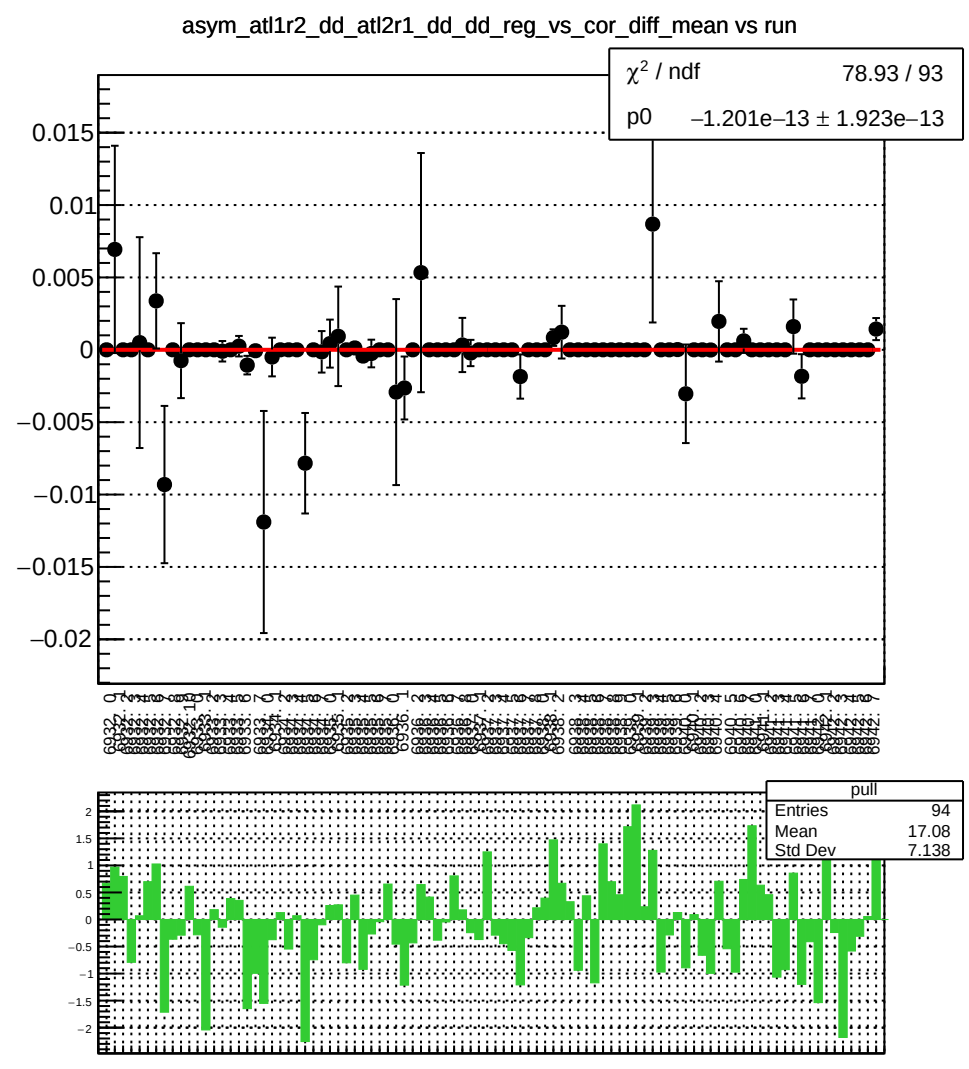

pull1D
Entries 94
Mean 0.007623
Std Dev 0.9568
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

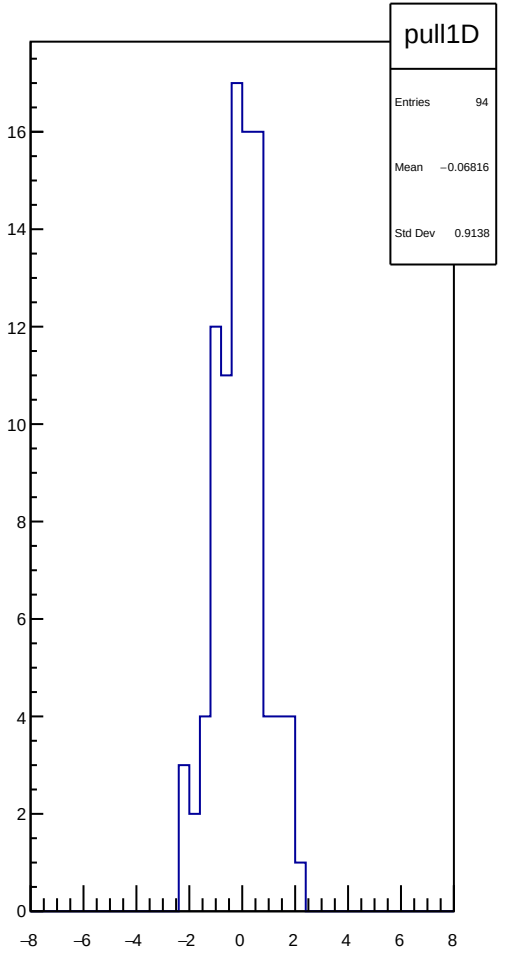

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5729 / 93
p0 5361 ± 4.043
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

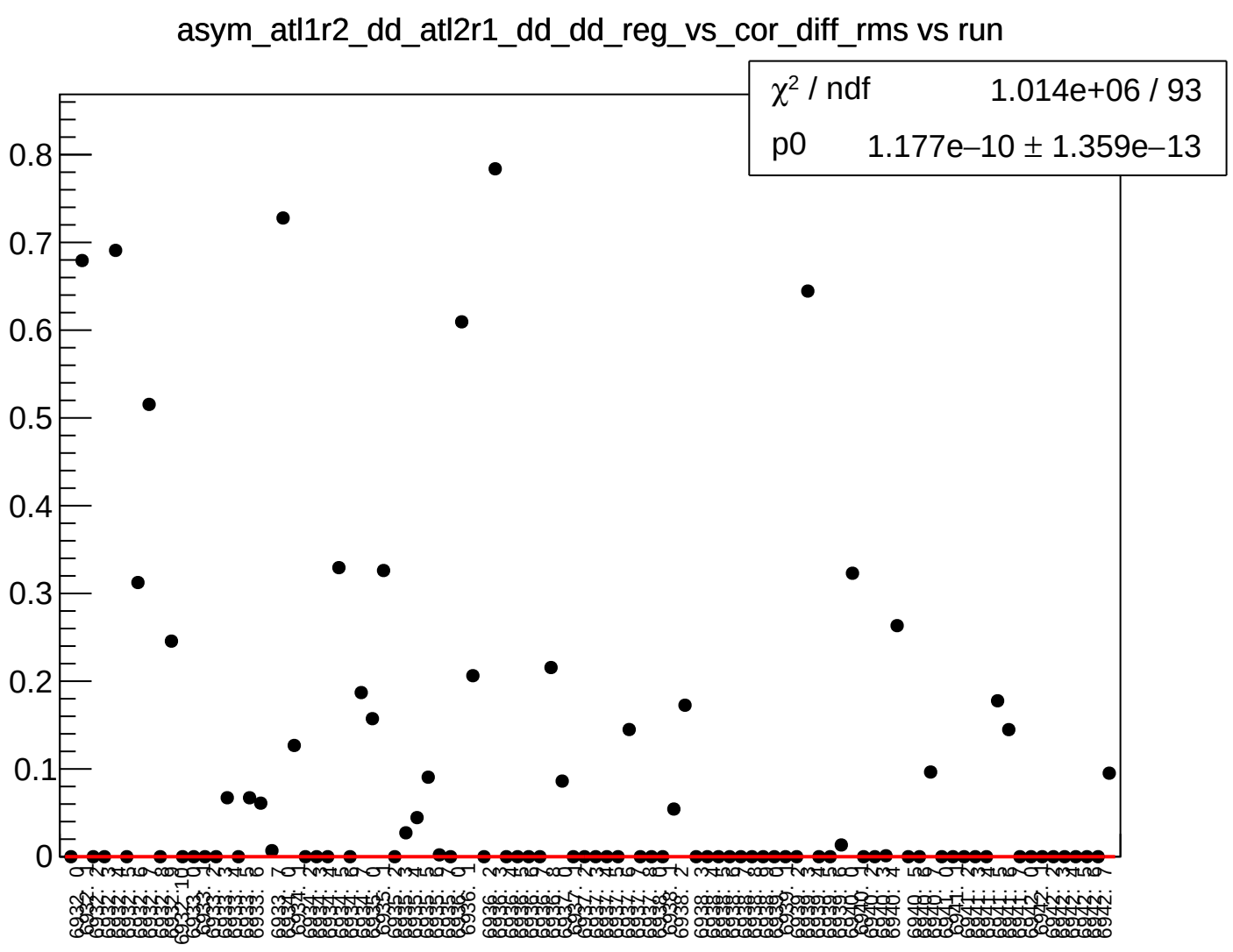

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 94.04 / 93
p0 6434 ± 5550
pull
Entries 94
Mean 456.3
Std Dev 0

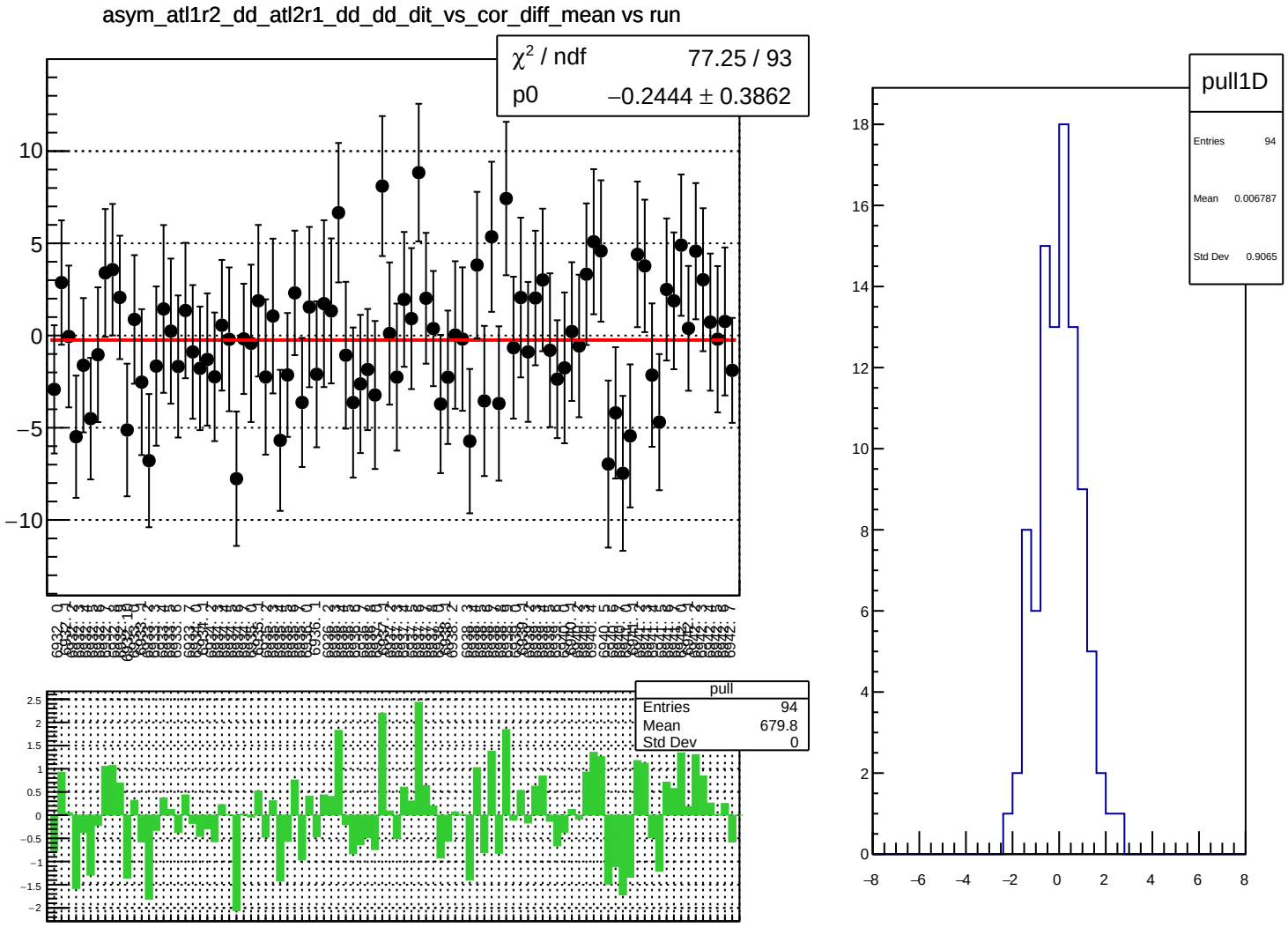

pull1D
Entries 94
Mean −0.005767
Std Dev 1

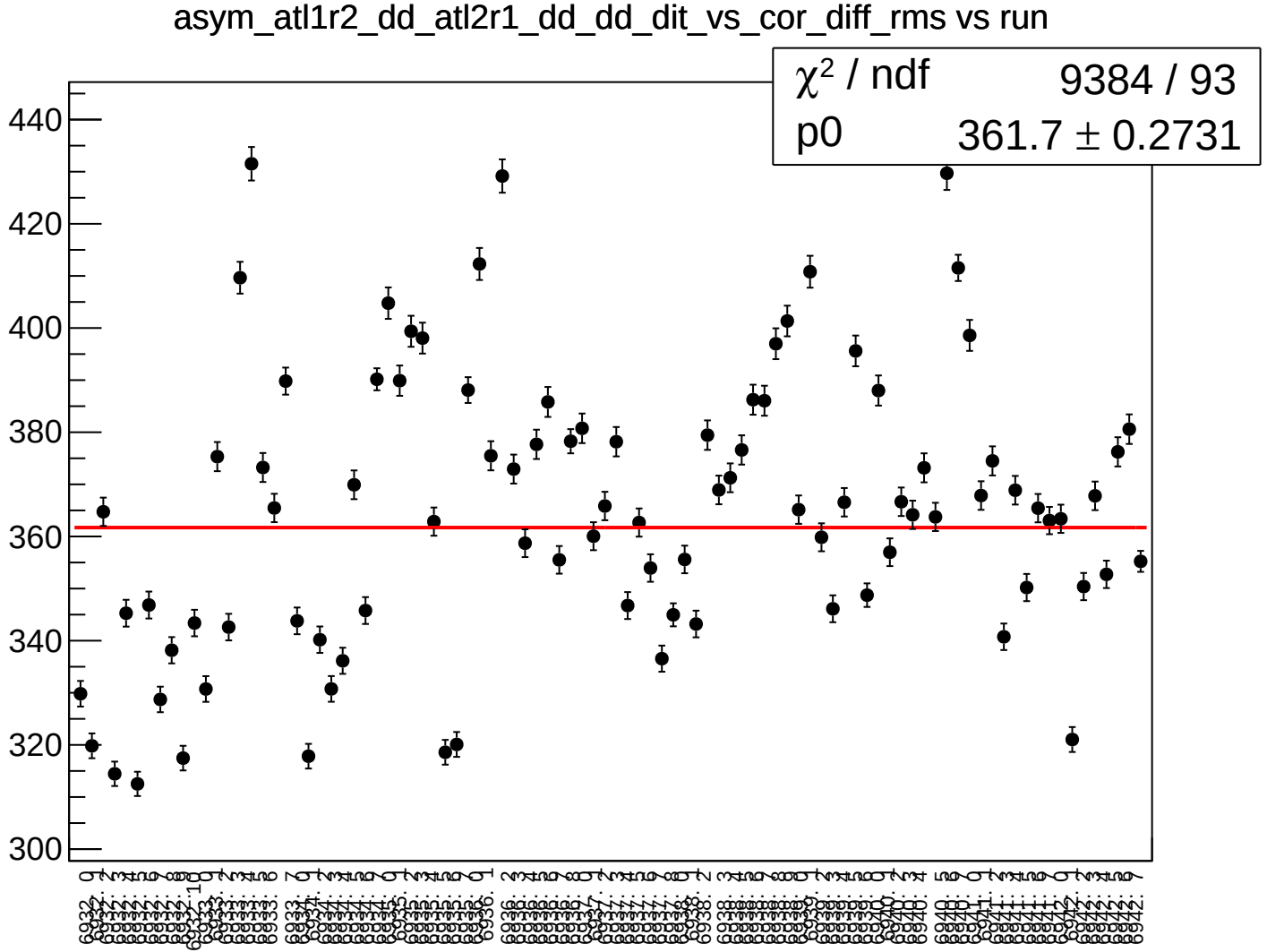

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 5041 / 93
p0 5204 ± 3.924
6000
5800
5600
5400
5200
5000
4800
4600

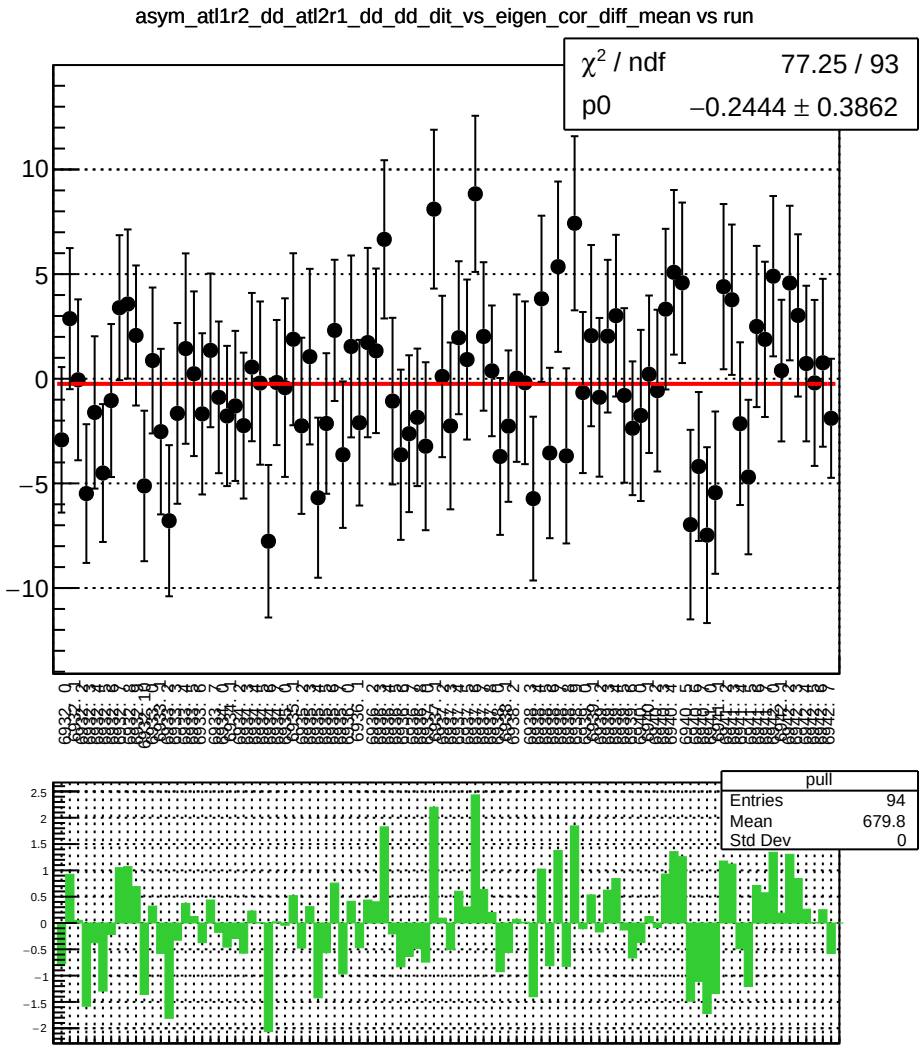

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.93 / 93
p0 −1.201e−13 ± 1.923e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 17.08
Std Dev 7.138
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

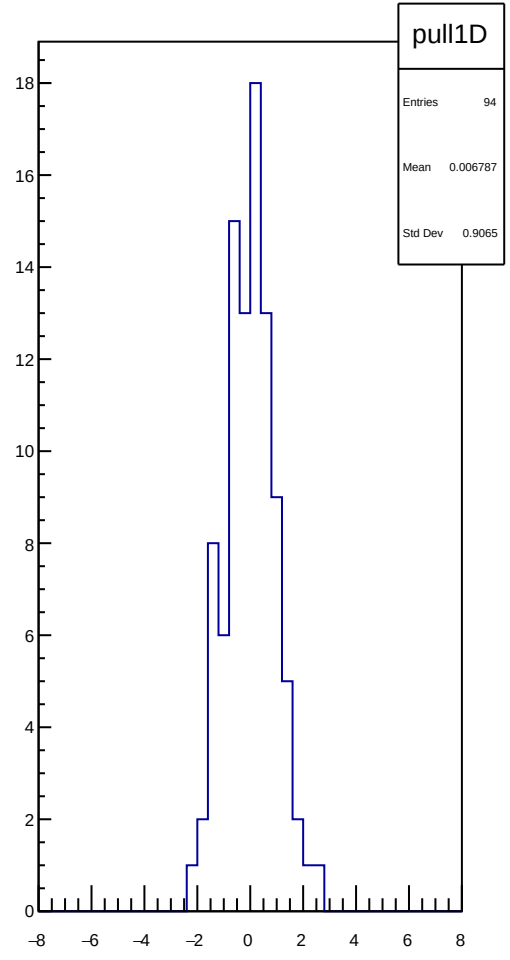

pull1D
Entries 94
Mean −0.06816
Std Dev 0.9138
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

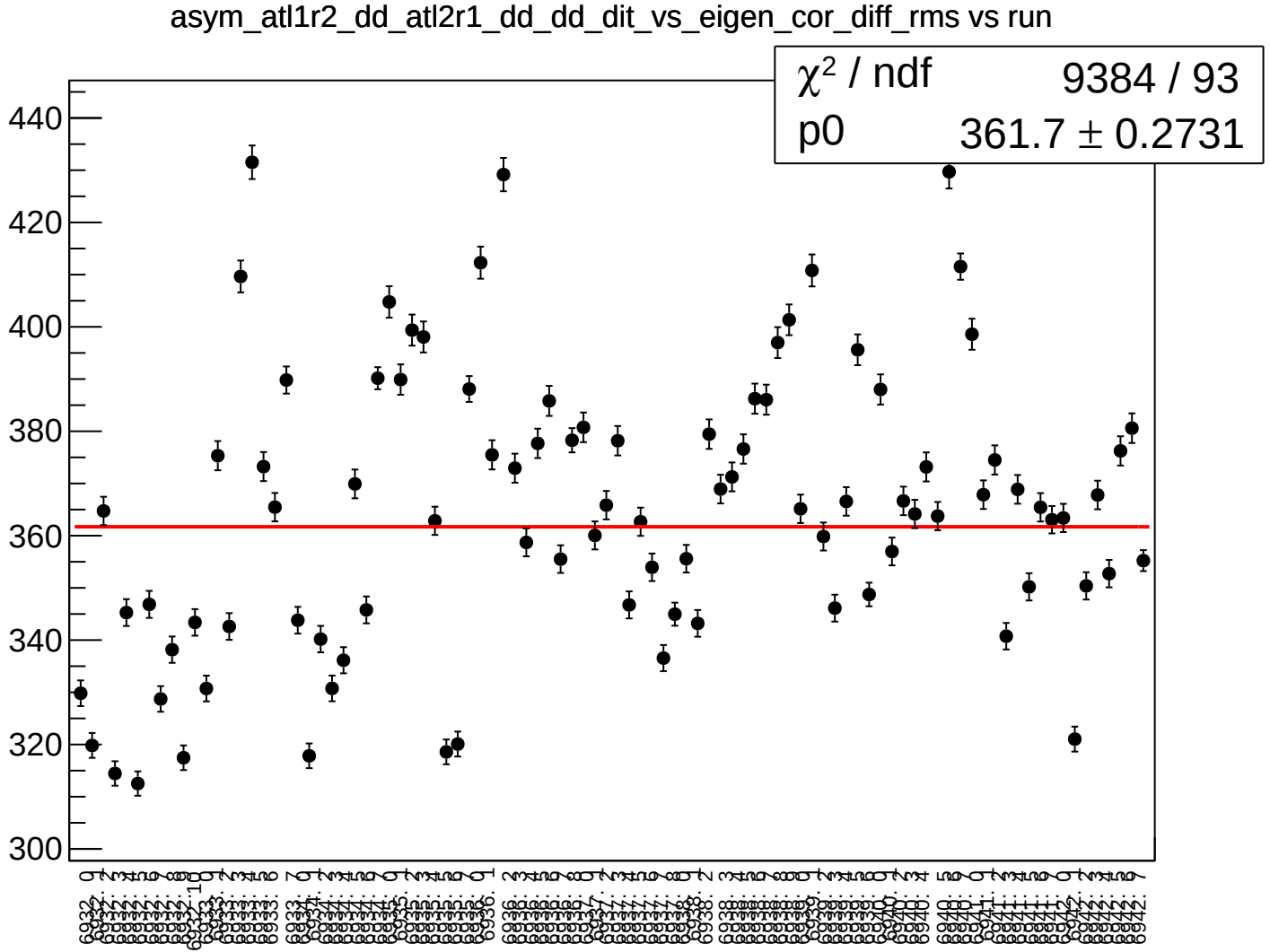

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 93
p0 1.177e−10 ± 1.359e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

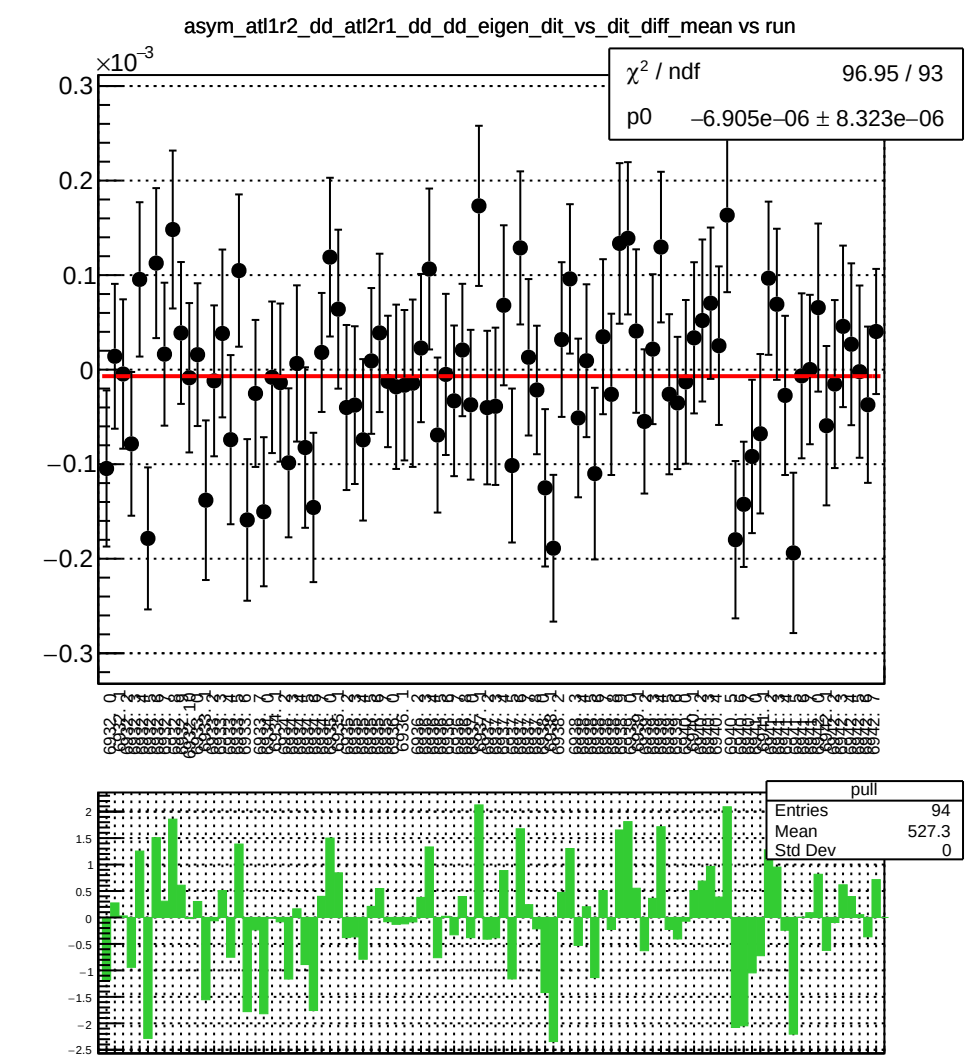

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

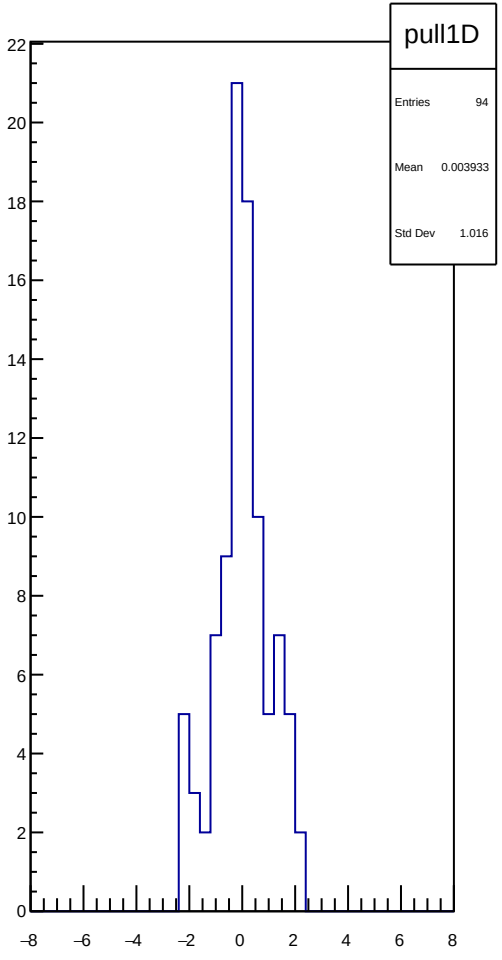

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

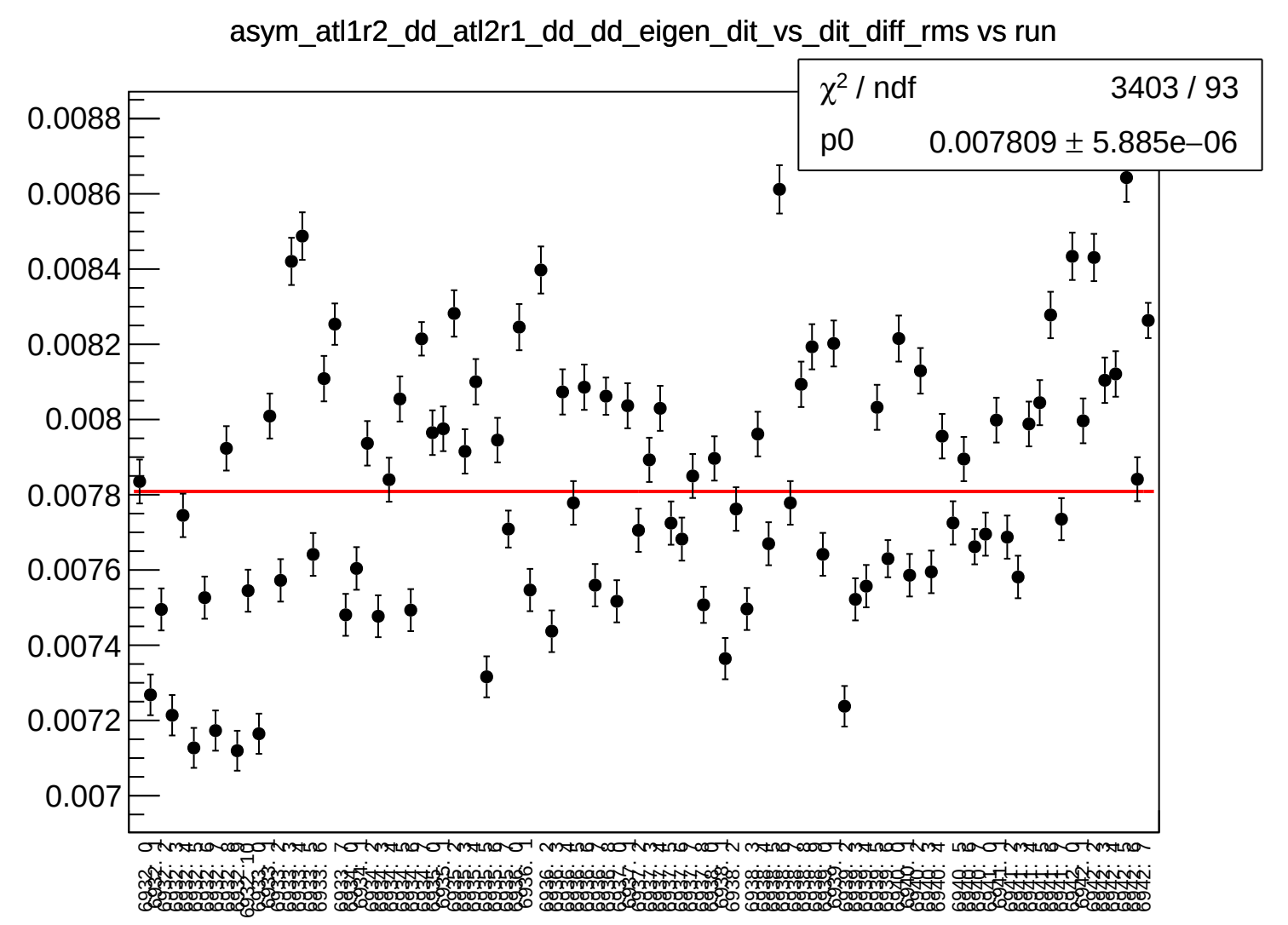

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

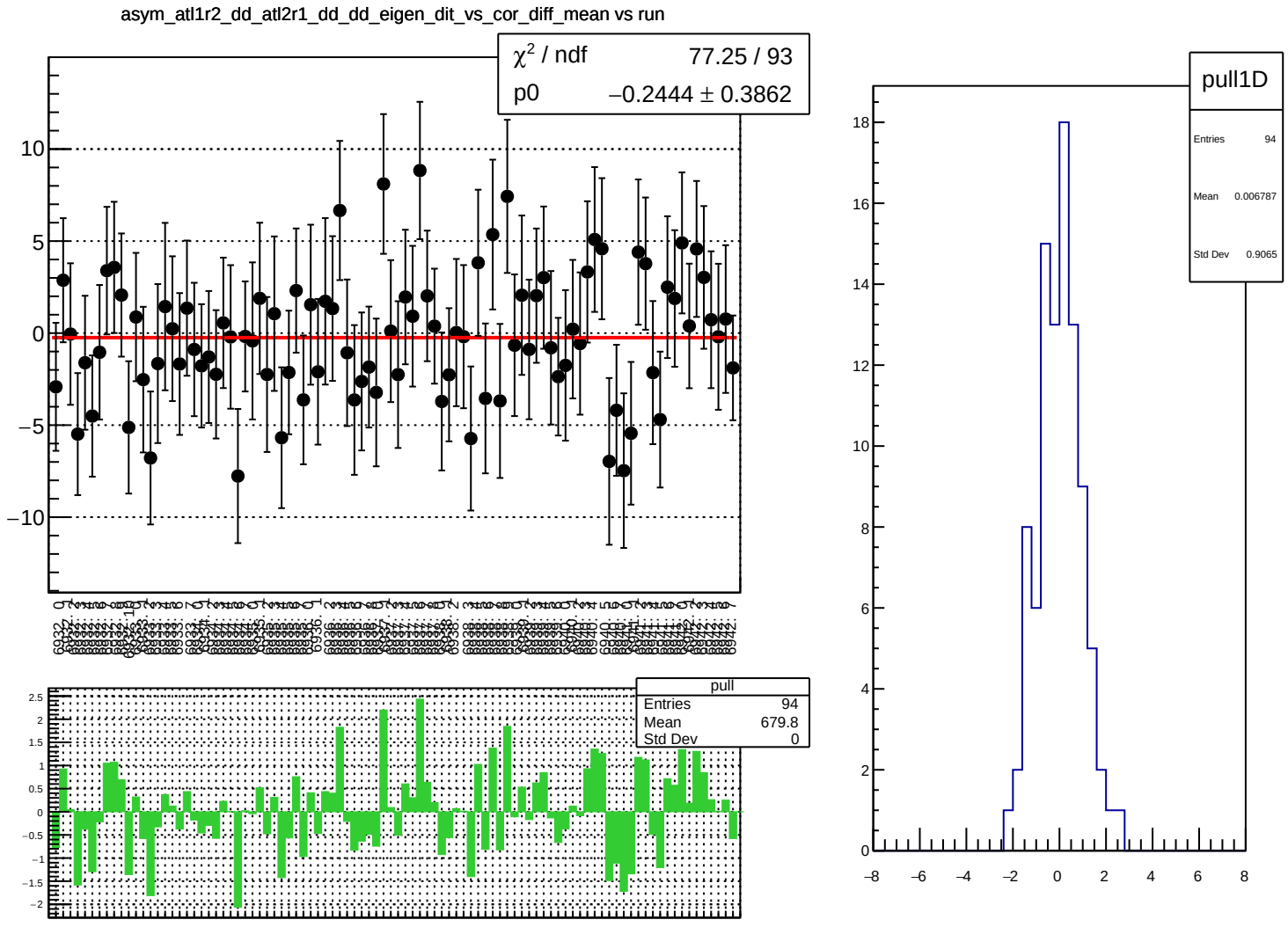

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

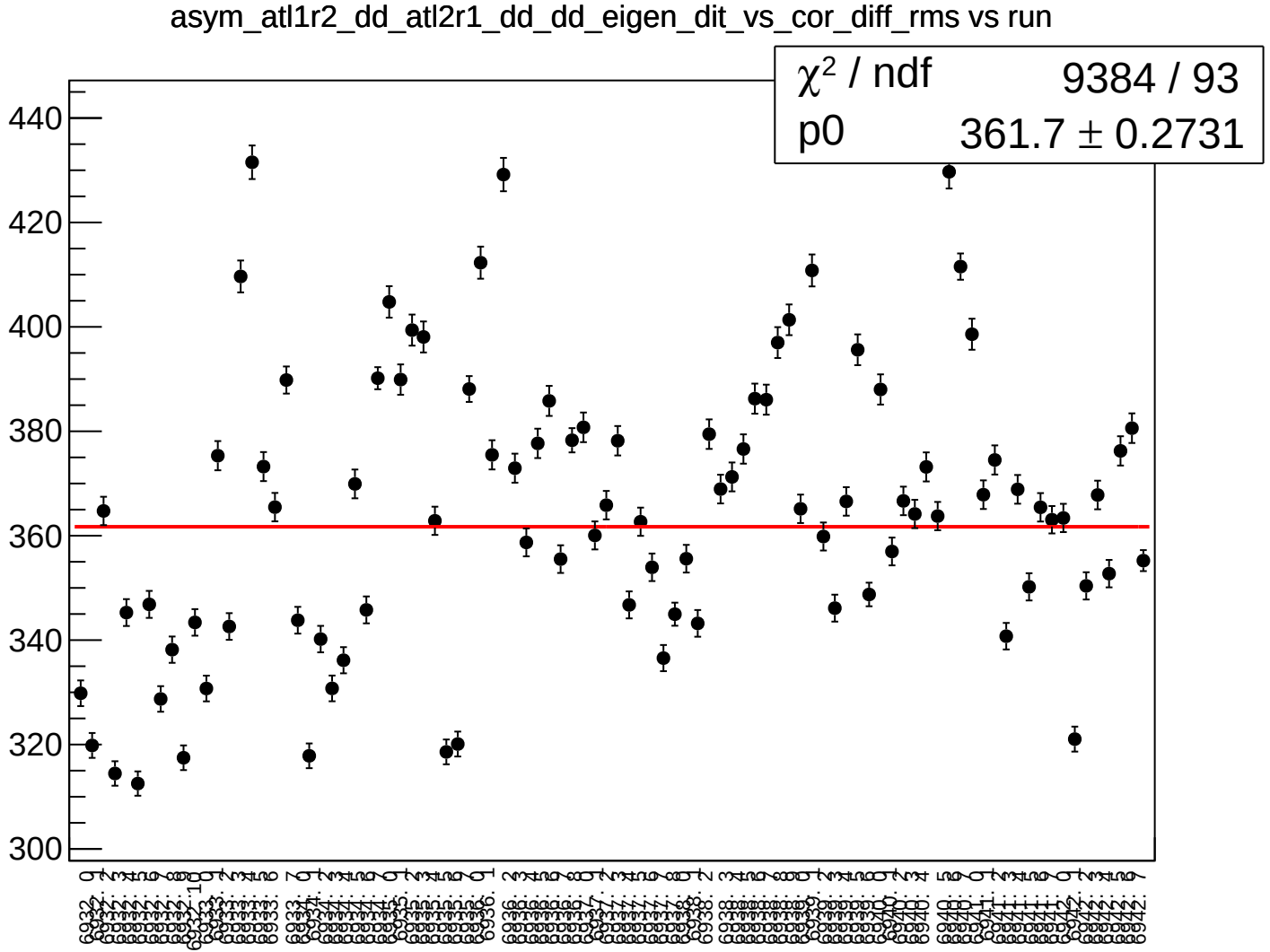

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

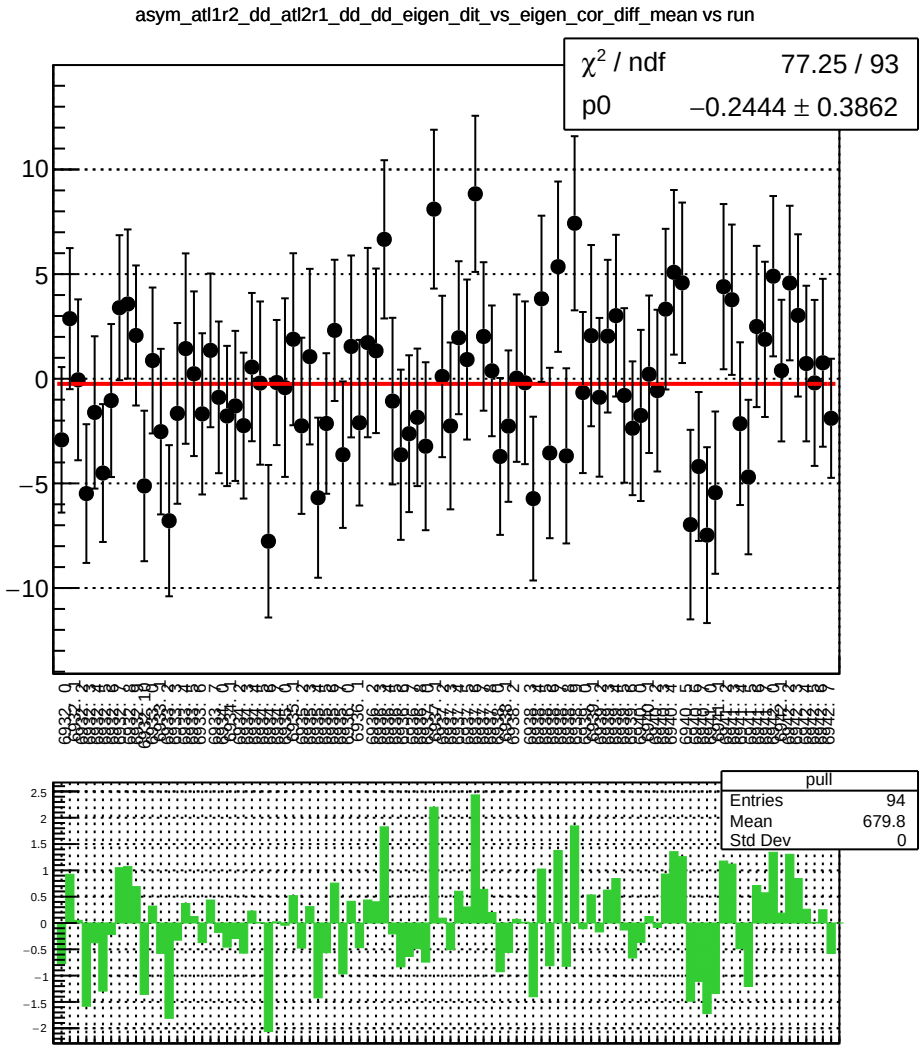

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 96.95 / 93
p0 −6.905e−06 ± 8.323e−06
pull
Entries 94
Mean 527.3
Std Dev 0

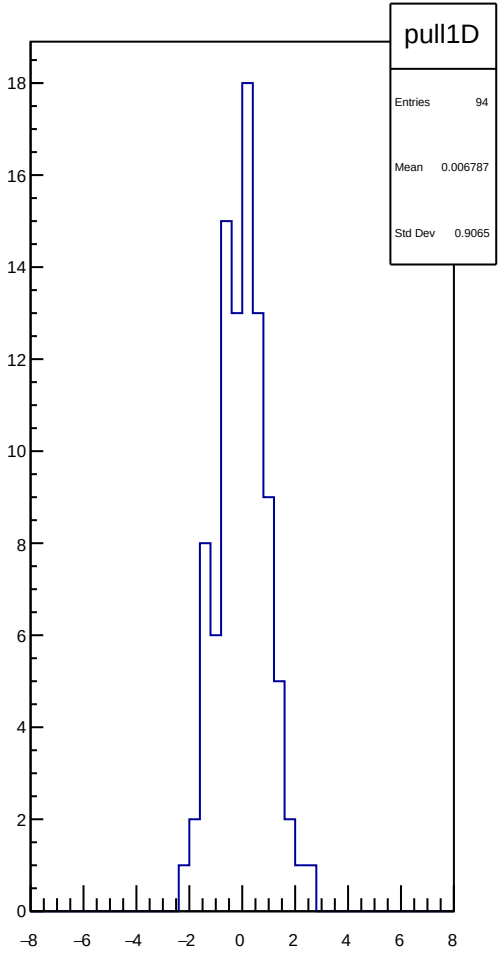

pull1D
Entries 94
Mean 0.003933
Std Dev 1.016

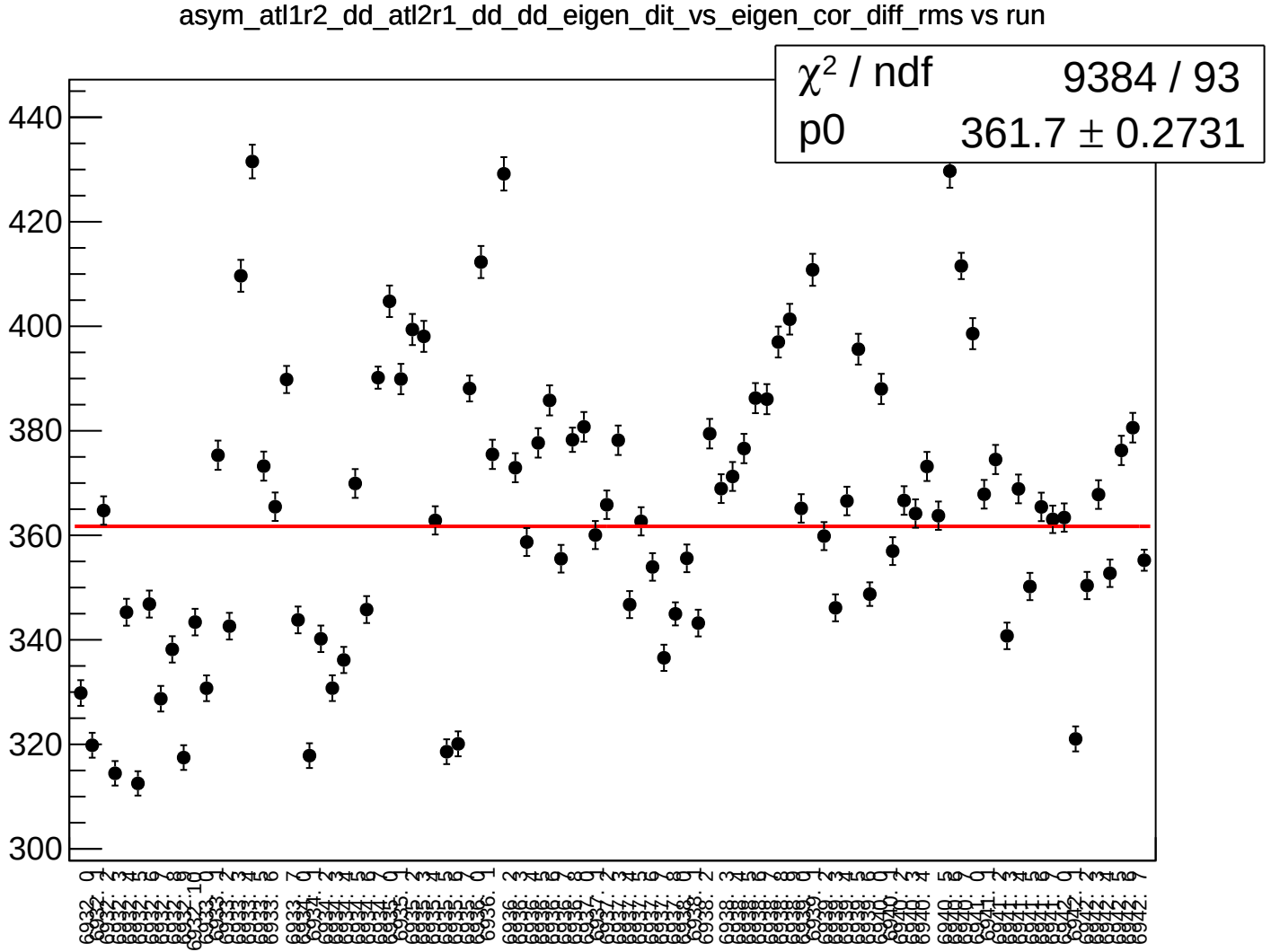

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3403 / 93
p0 0.007809 ± 5.885e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072
0.007

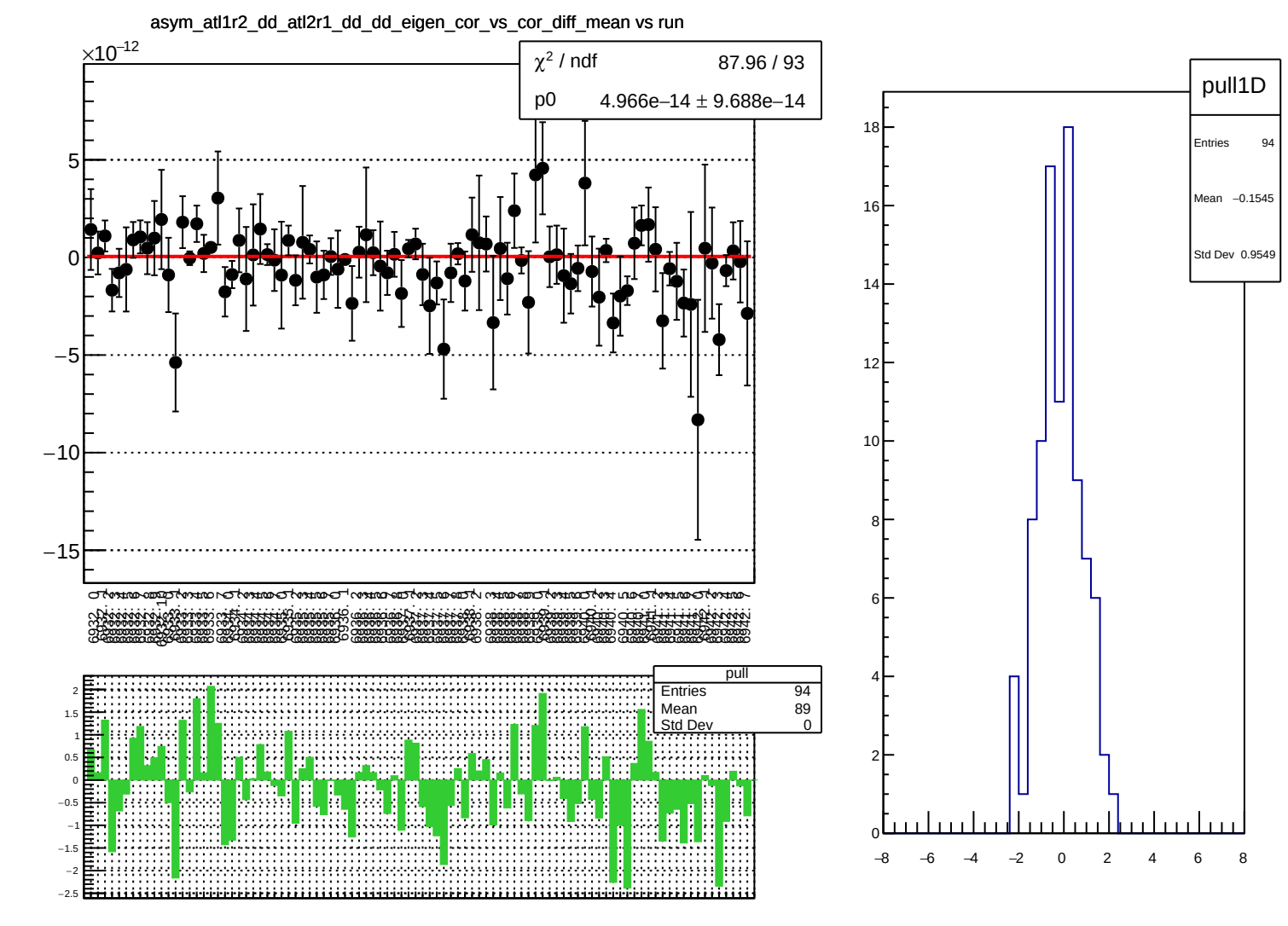

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0
pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

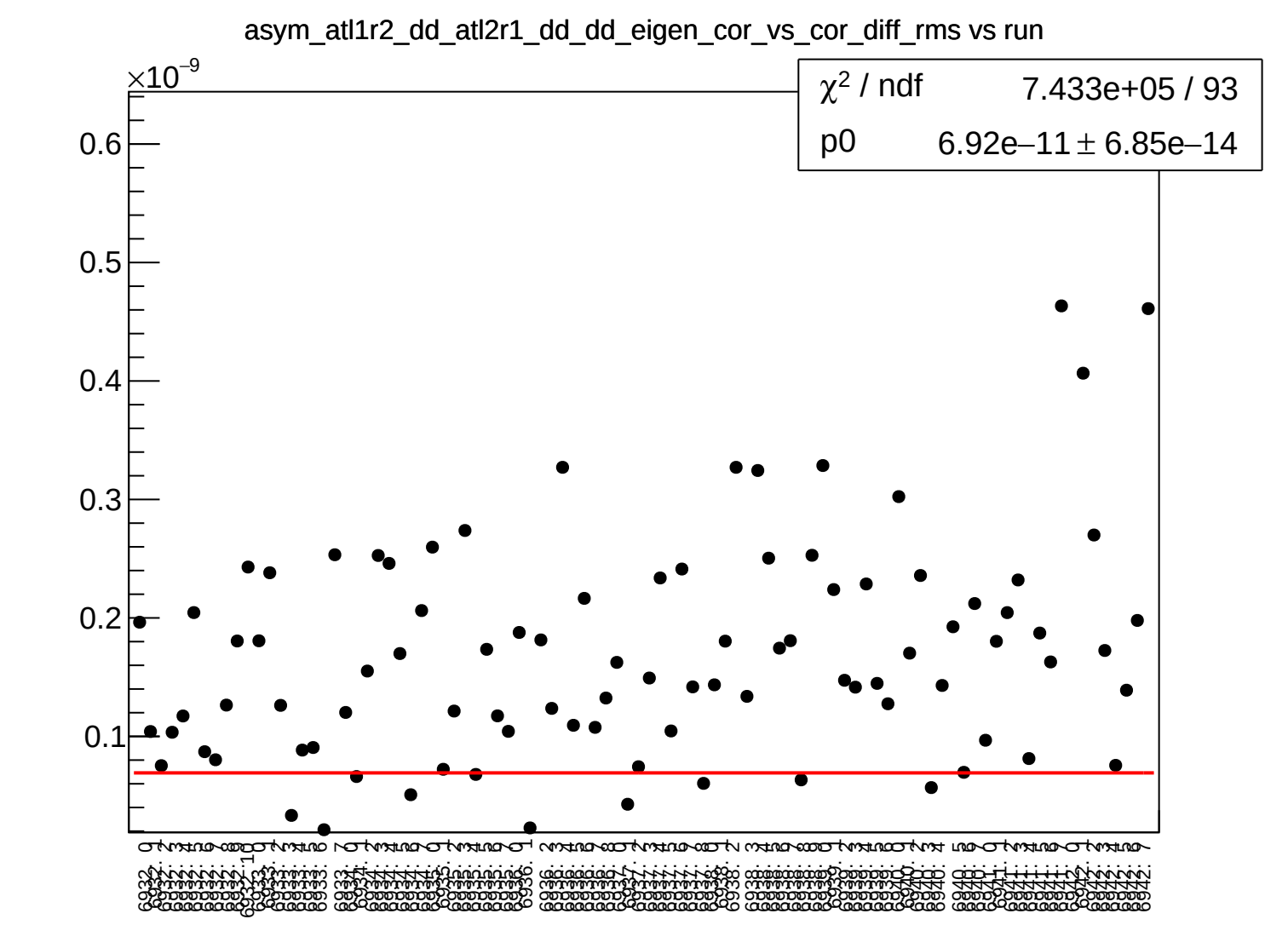

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

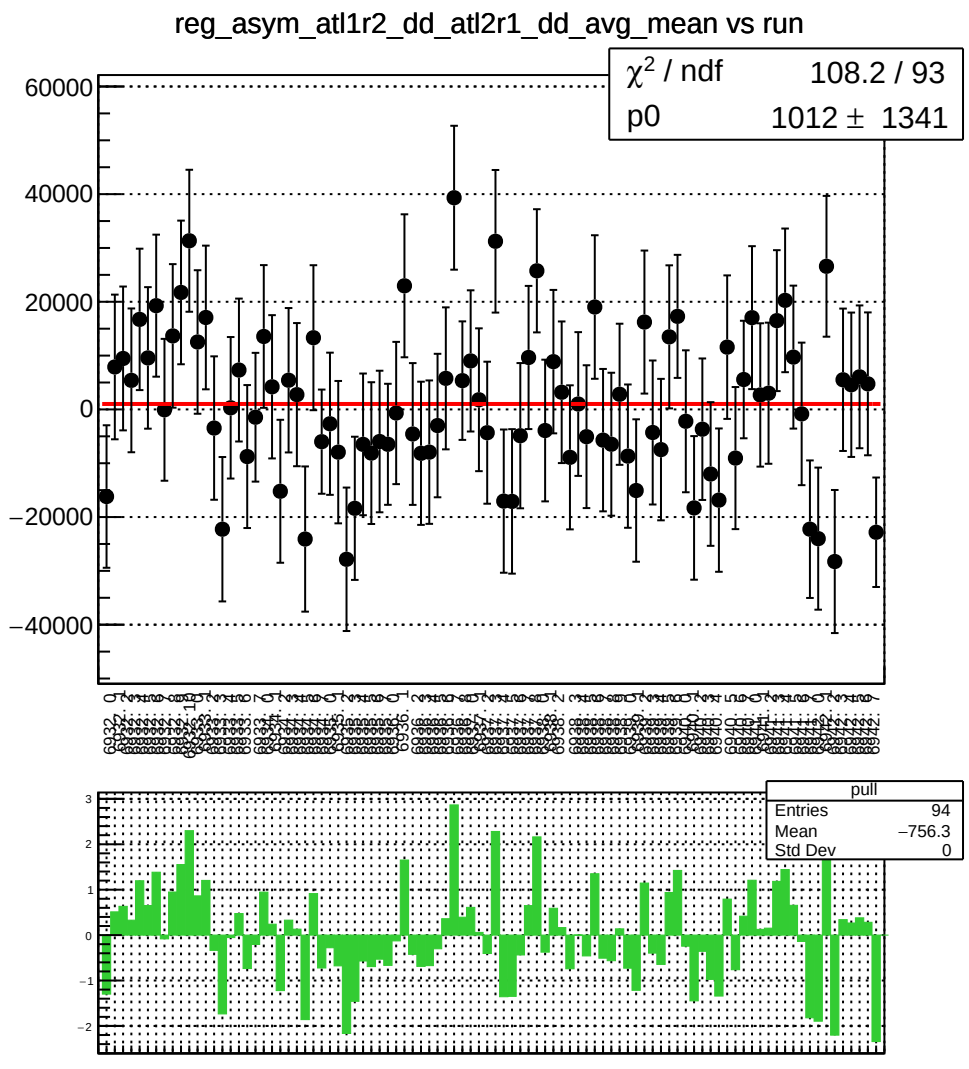

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.25 / 93
p0 −0.2444 ± 0.3862
pull
Entries 94
Mean 679.8
Std Dev 0

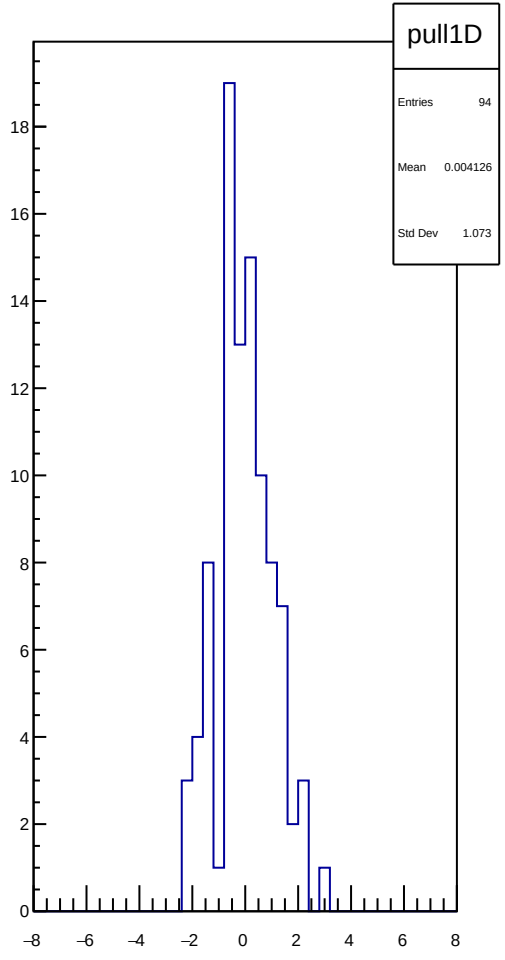

pull1D
Entries 94
Mean 0.006787
Std Dev 0.9065

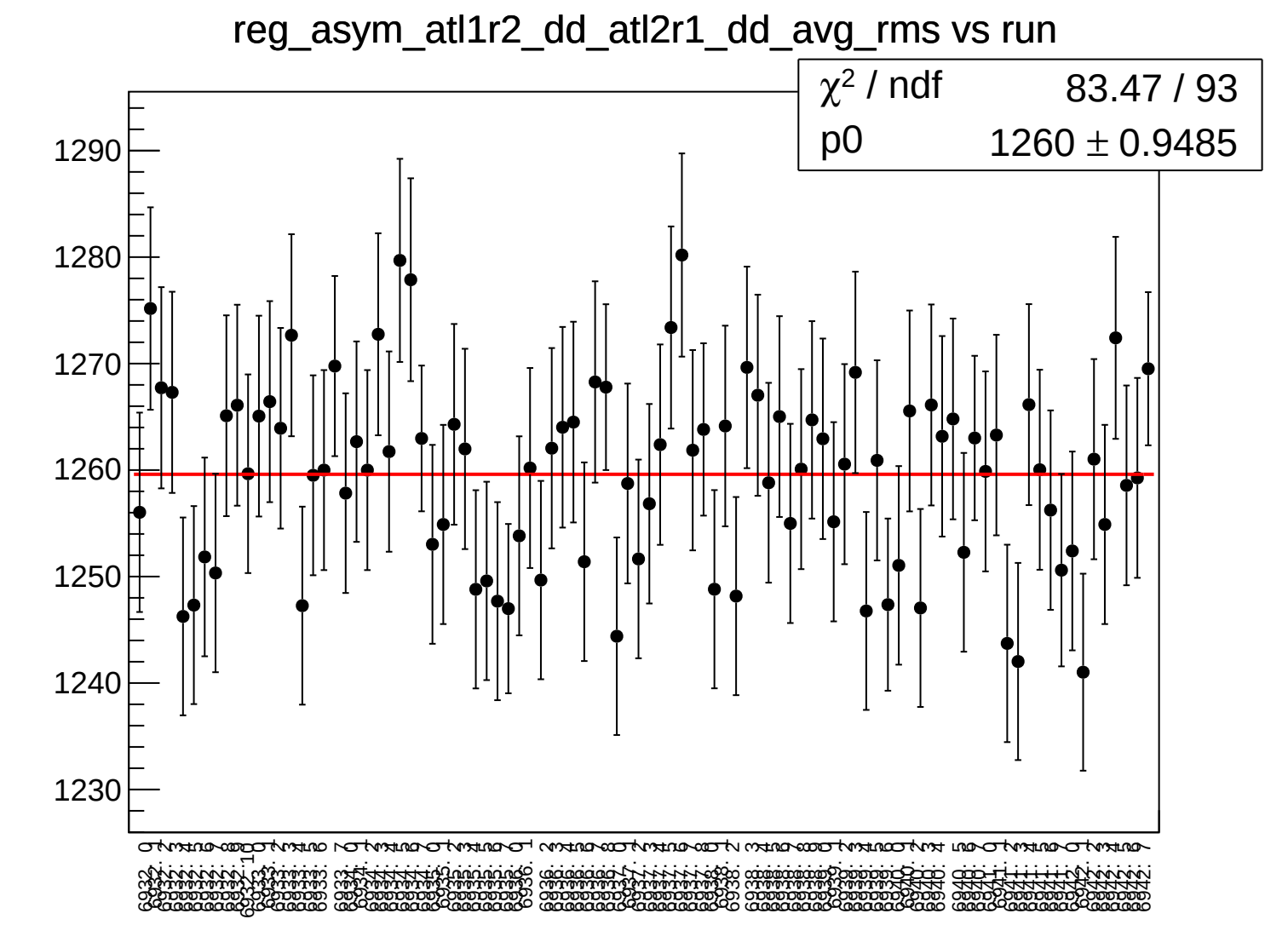

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9384 / 93
p0 361.7 ± 0.2731
440
420
400
380
360
340
320
300

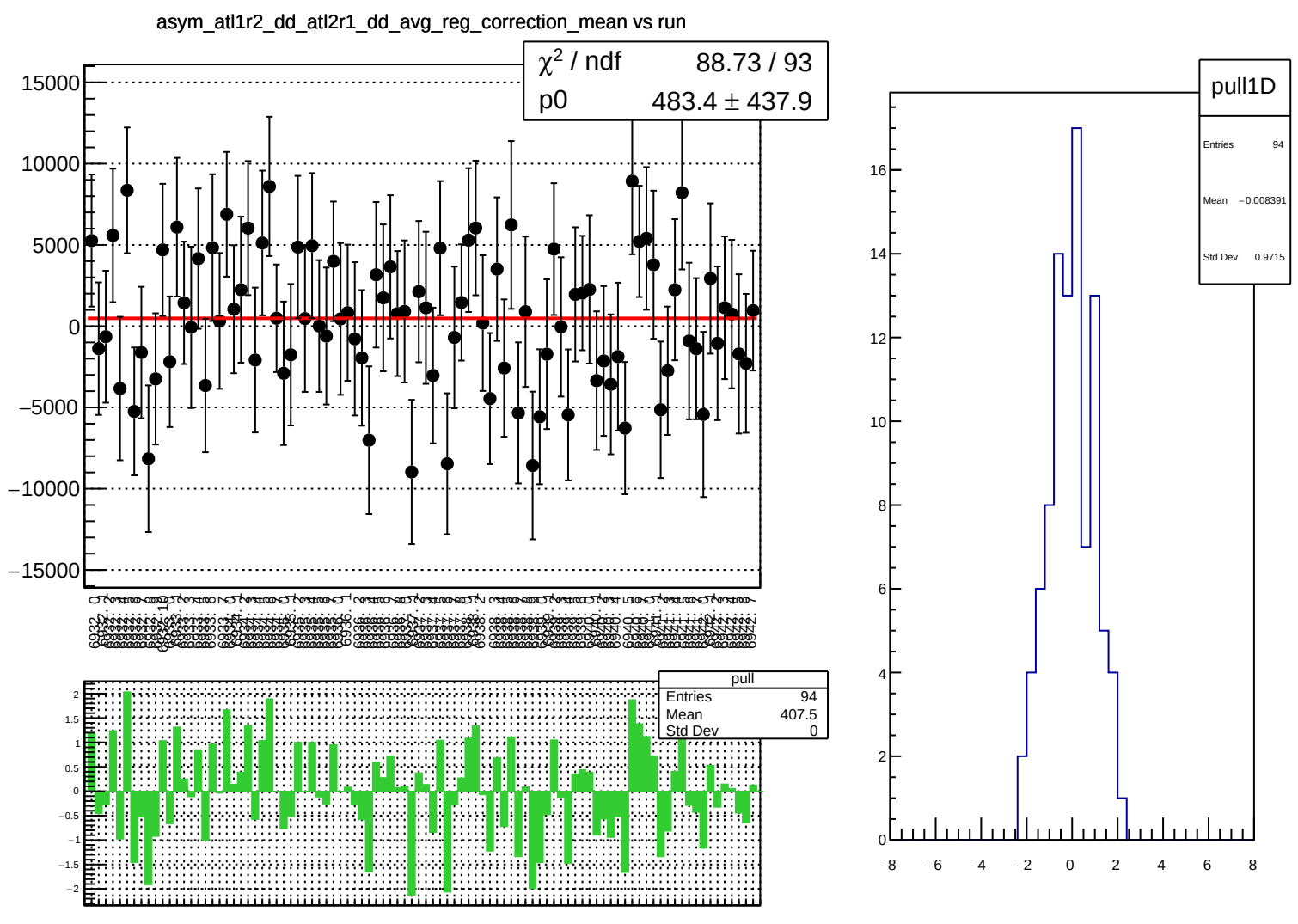

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.96 / 93
p0 4.966e−14 ± 9.688e−14
5
0
−5
−10
−15
pull
Entries 94
Mean 89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.1545
Std Dev 0.9549
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

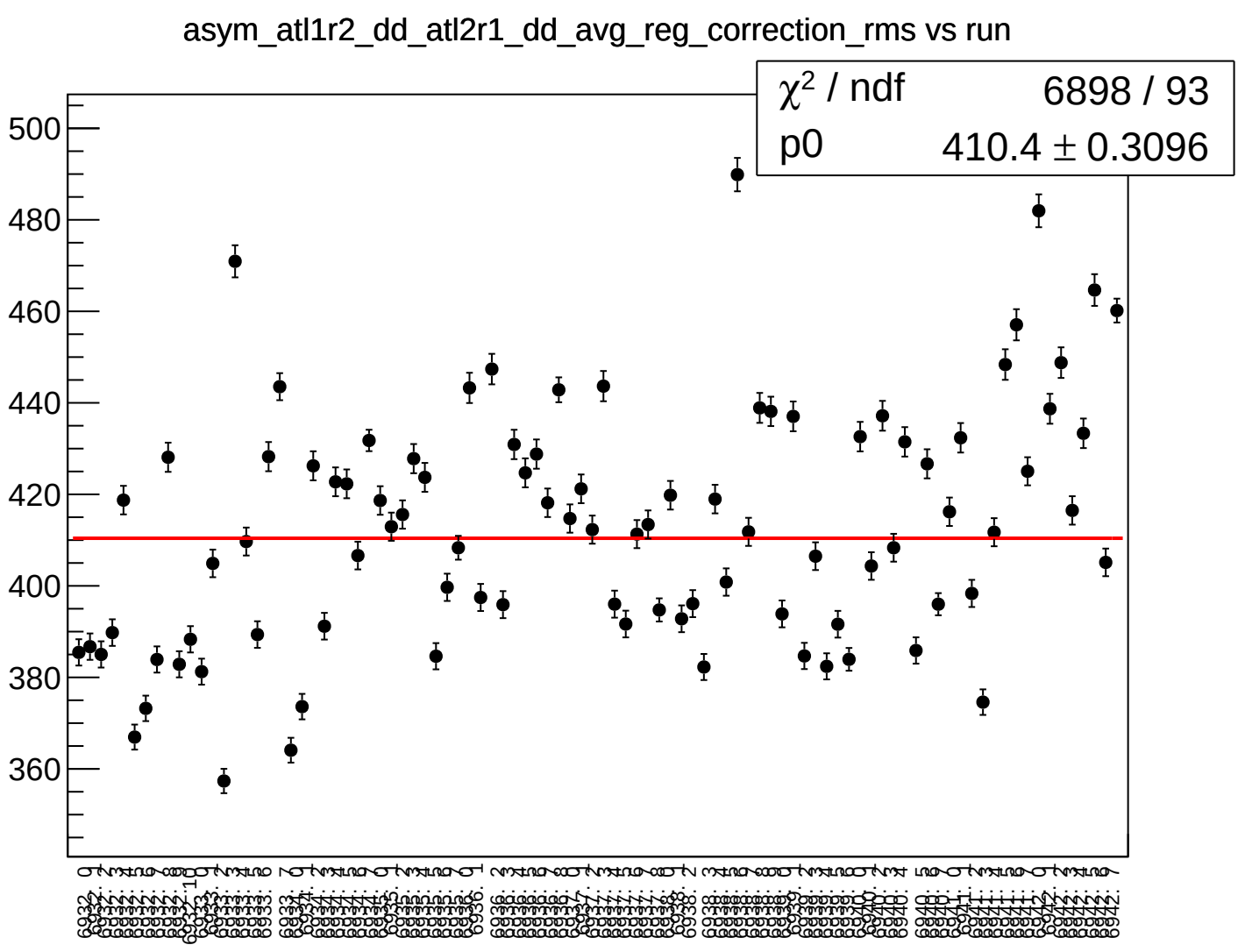

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.433e+05 / 93
p0 6.92e−11 ± 6.85e−14
0.6
0.5
0.4
0.3
0.2
0.1

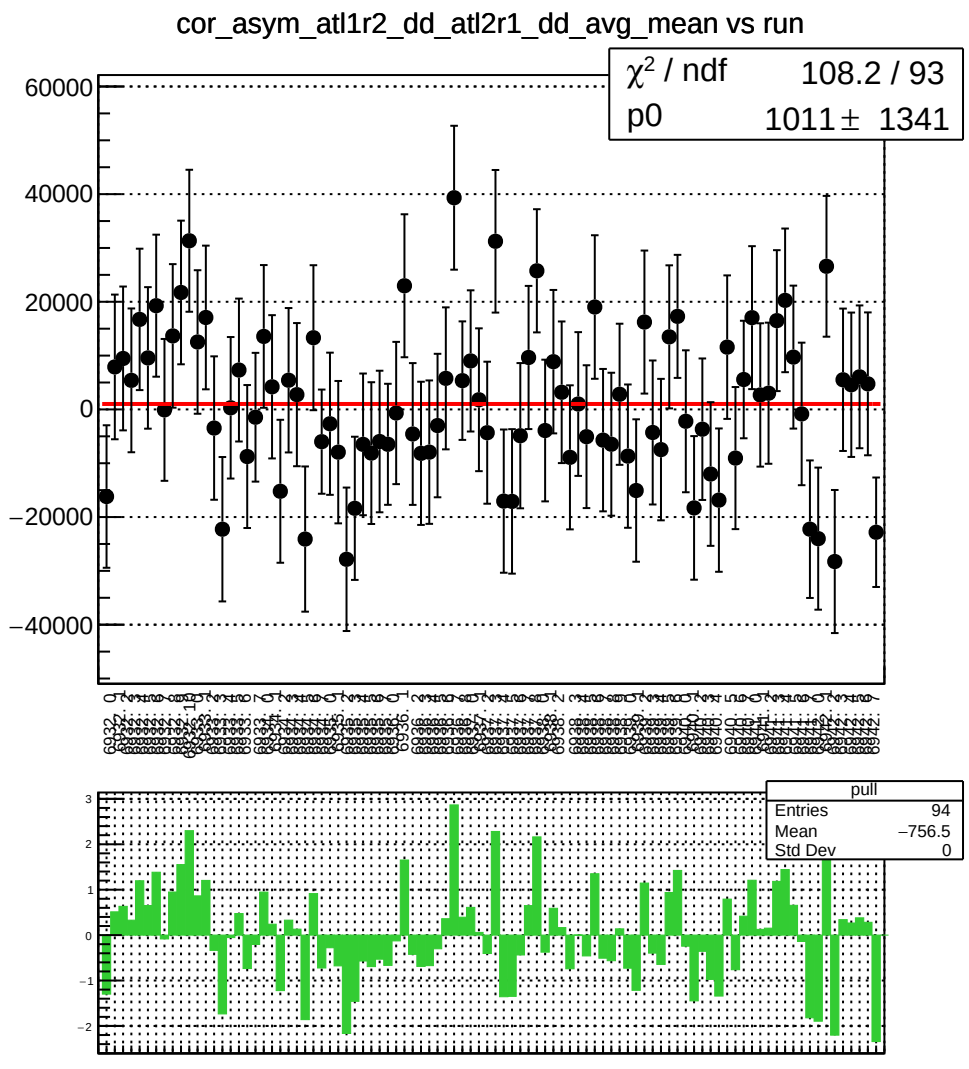

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108.2 / 93
p0 1012 ± 1341
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −756.3
Std Dev 0
3
2
1
0
−1
−2

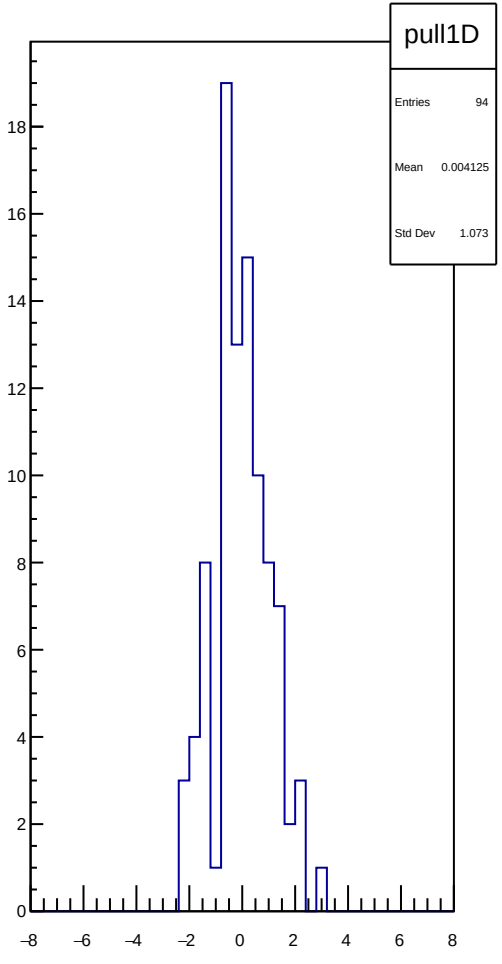

pull1D
Entries 94
Mean 0.004126
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

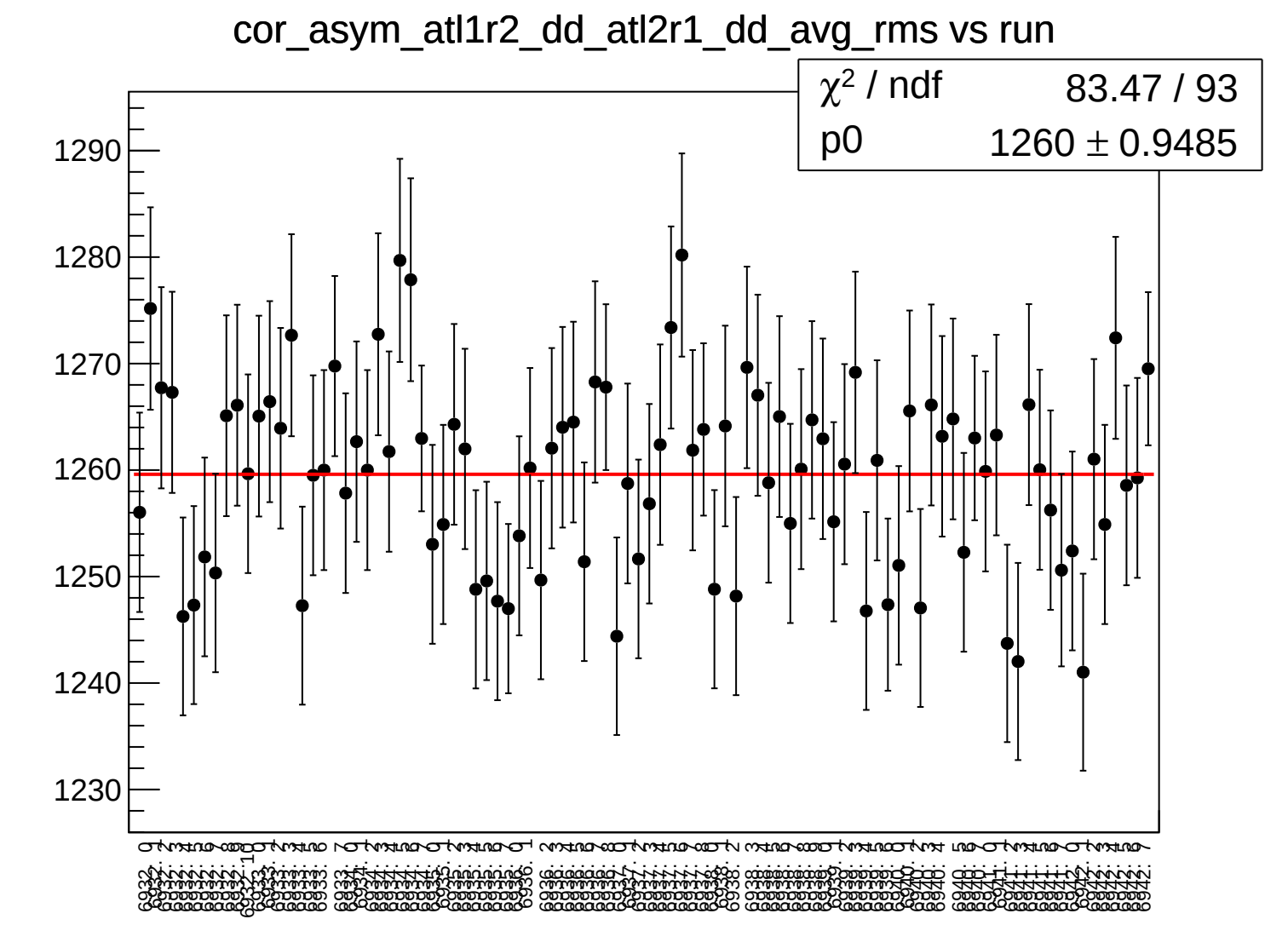

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

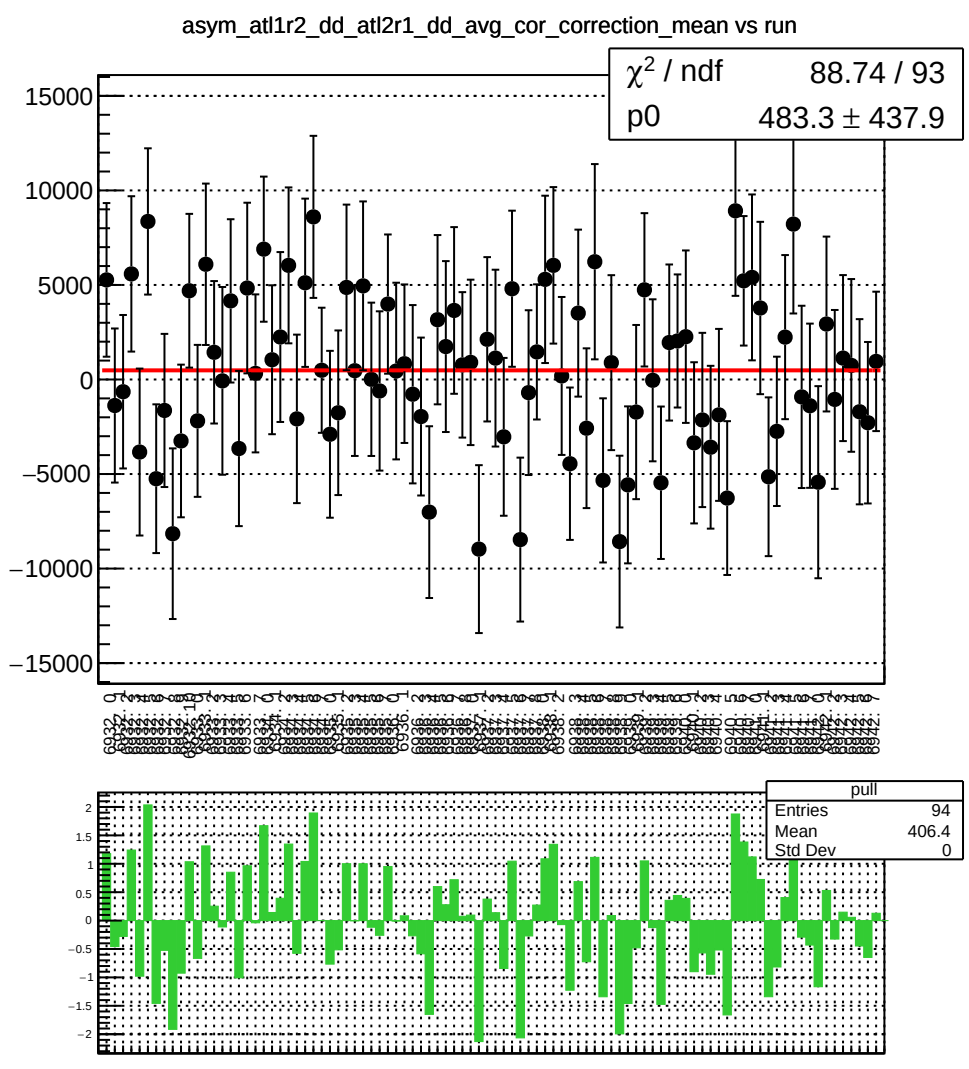

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 88.73 / 93
p0 483.4 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 407.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008391
Std Dev 0.9715
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

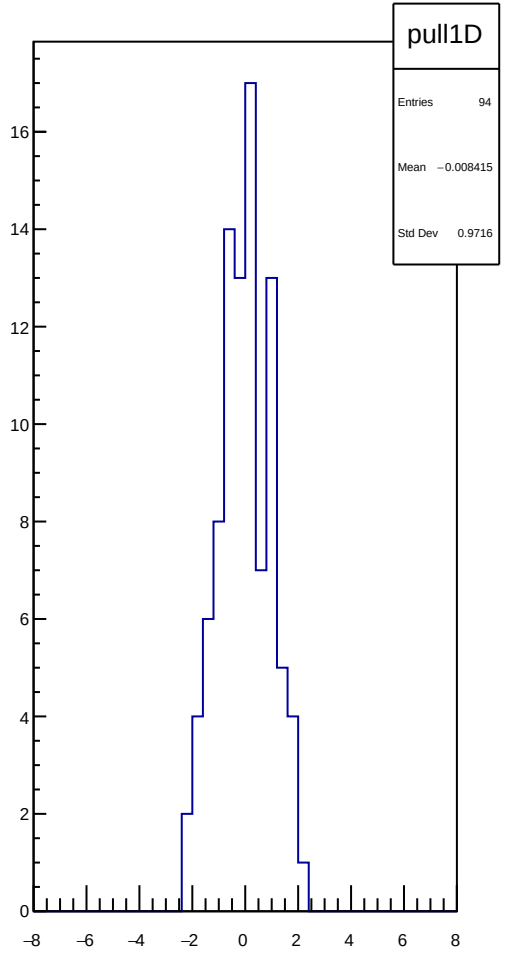

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 6898 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

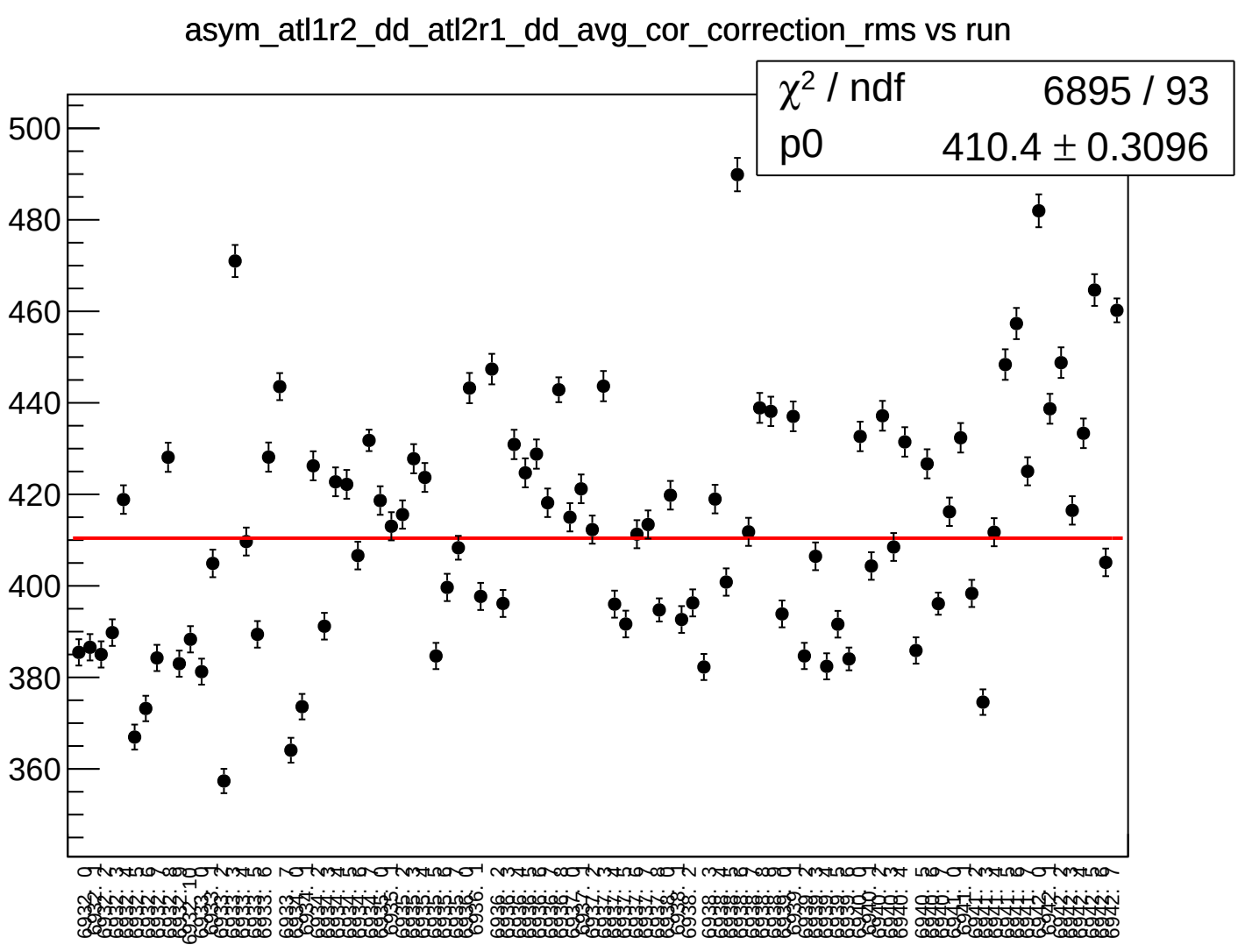

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108.2 / 93
p0 1011 ± 1341
pull
Entries 94
Mean −756.5
Std Dev 0

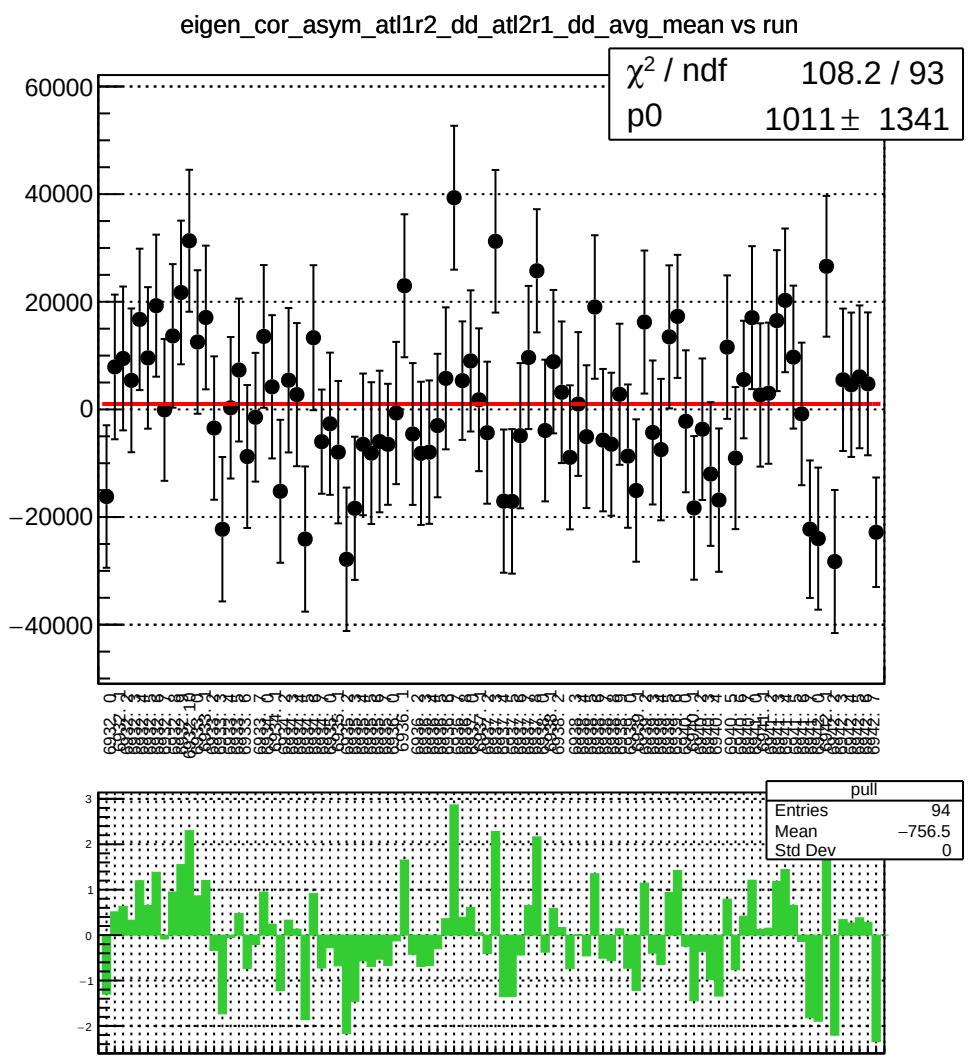

pull1D
Entries 94
Mean 0.004125
Std Dev 1.073

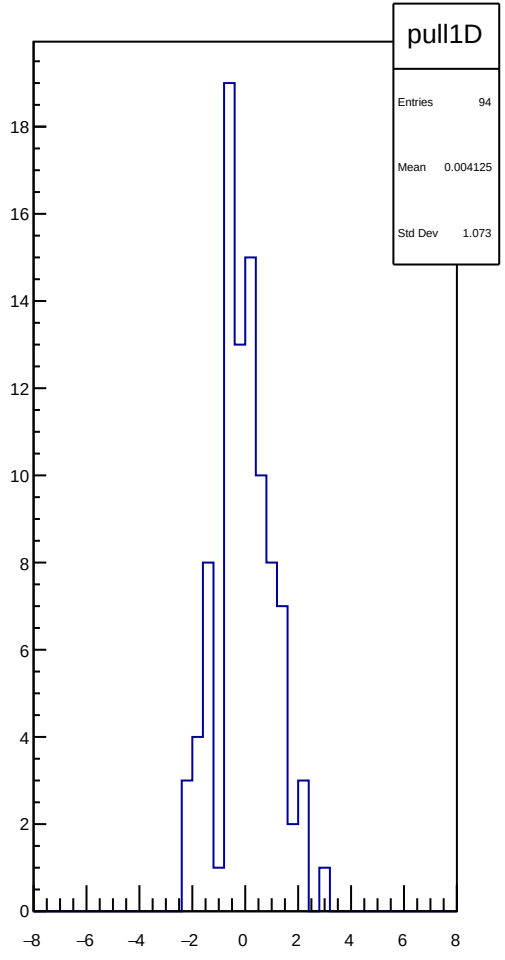

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

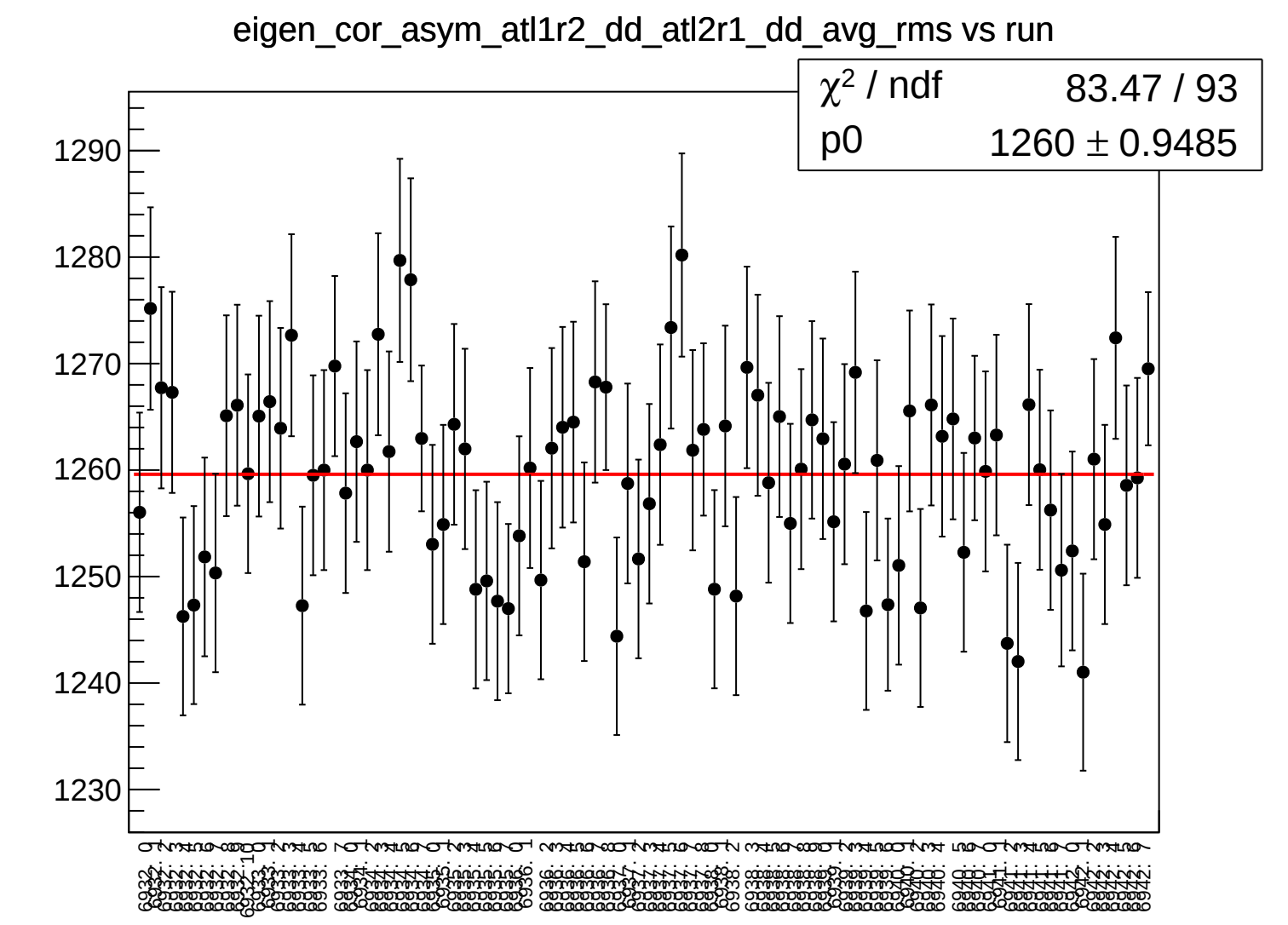

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 483.3 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 406.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

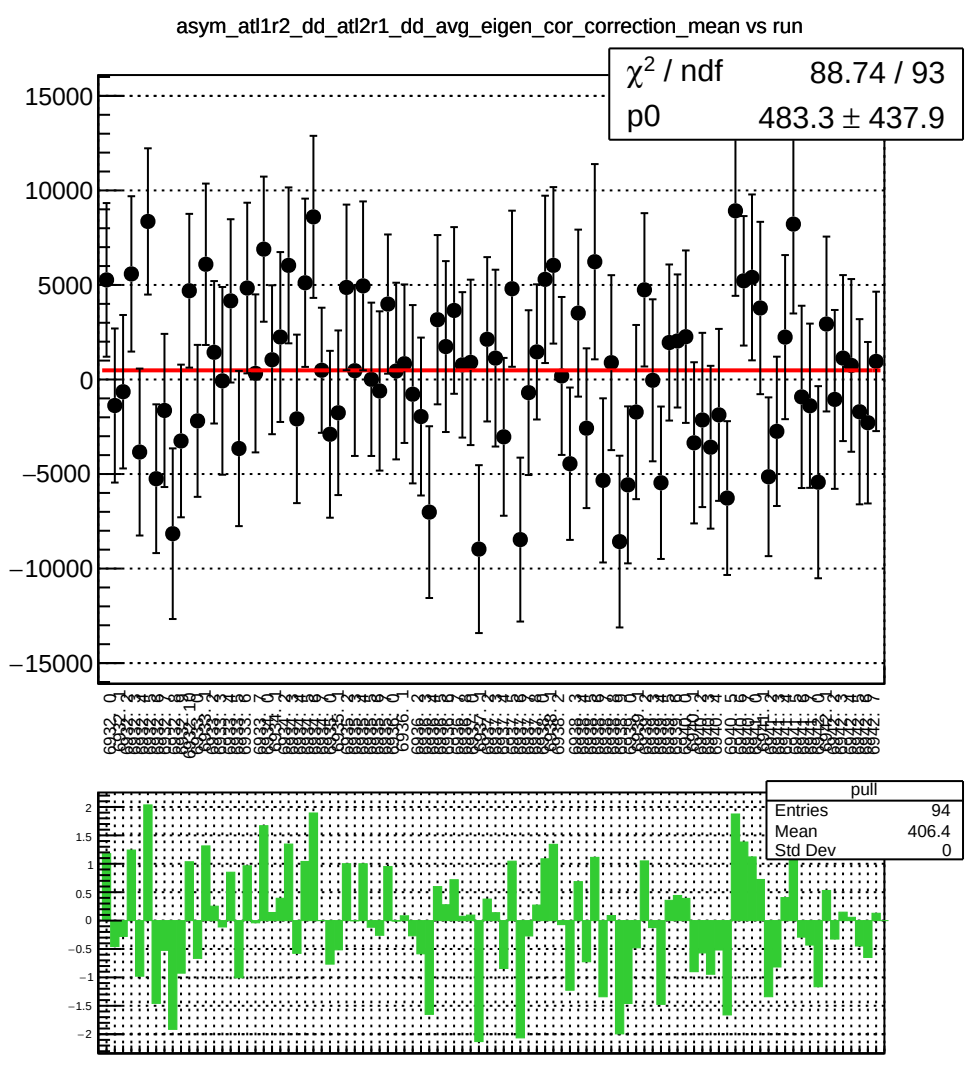

pull1D
Entries 94
Mean −0.008415
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

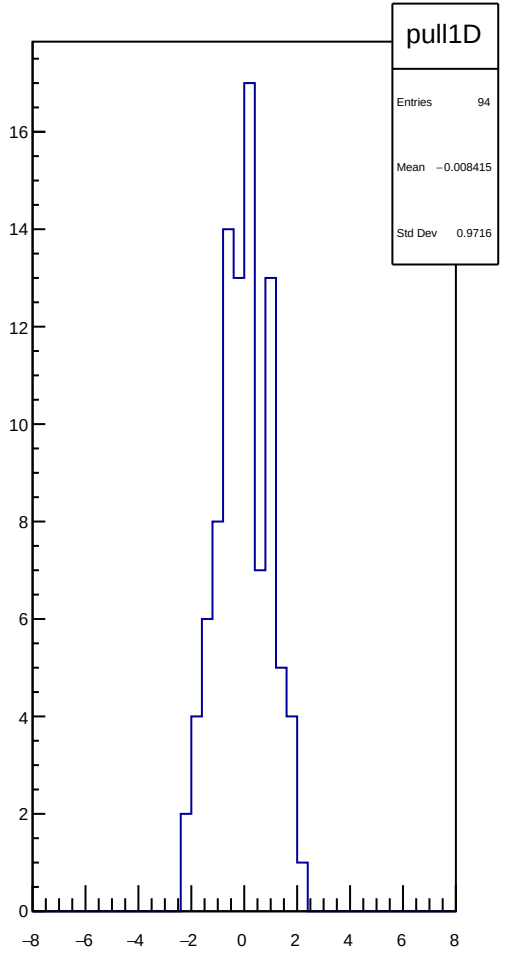

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 6895 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

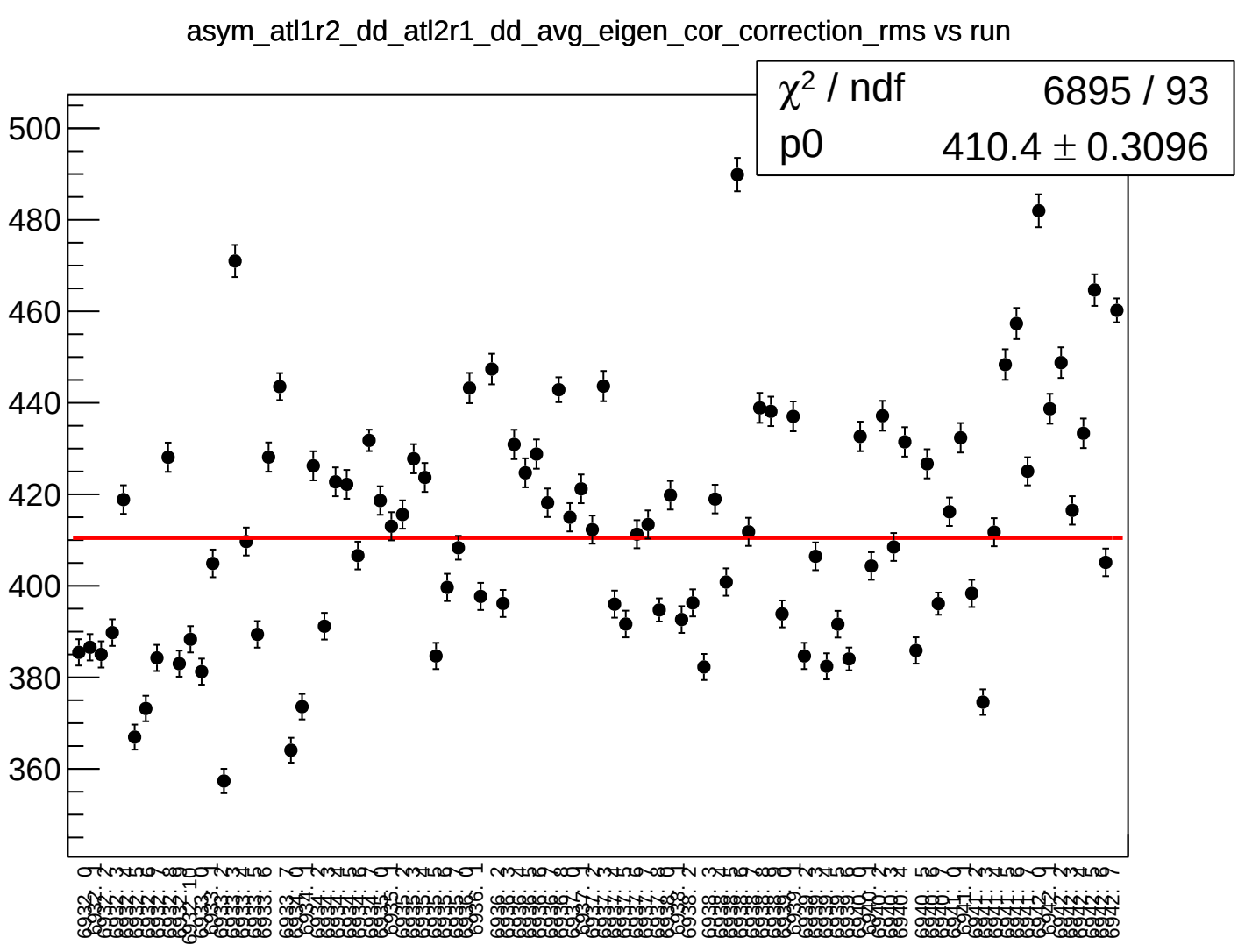

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108.2 / 93
p0 1011 ± 1341
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −756.5
Std Dev 0
3
2
1
0
−1
−2

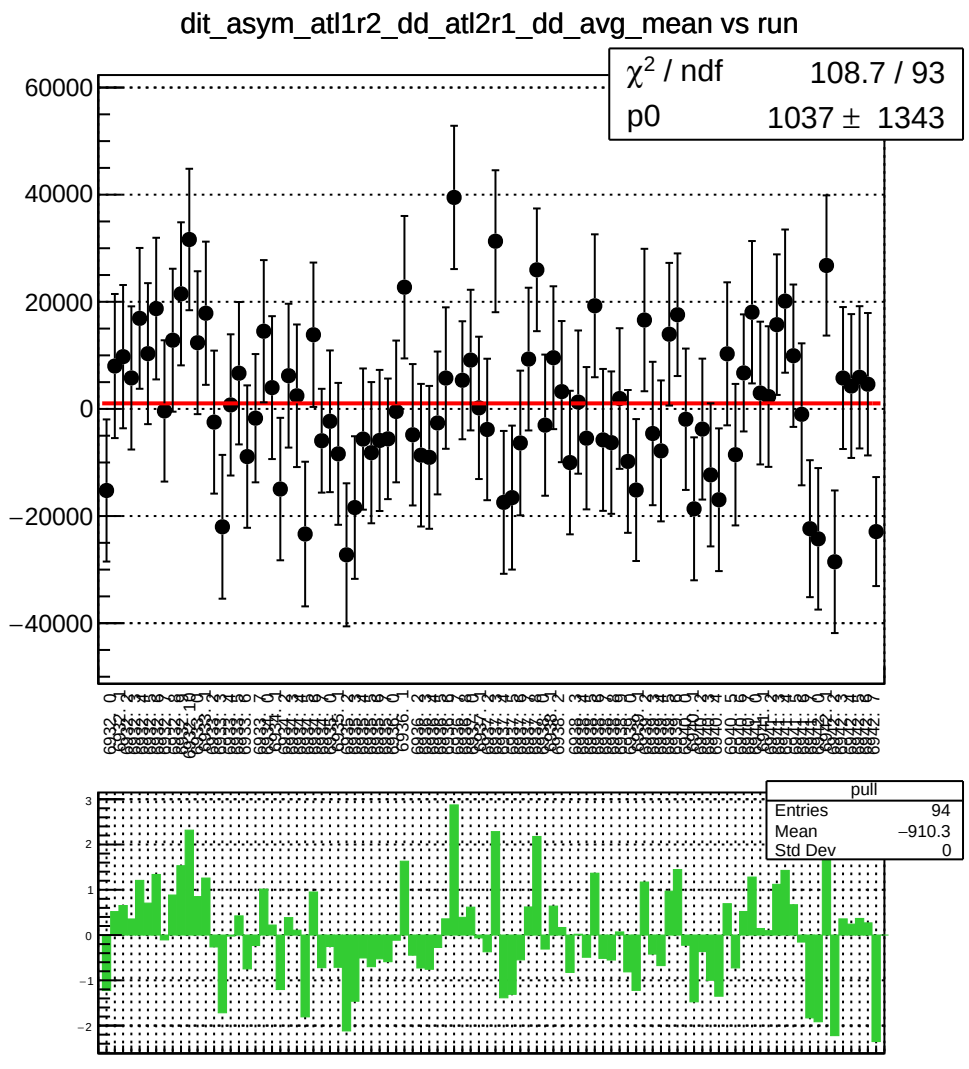

pull1D
Entries 94
Mean 0.004125
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

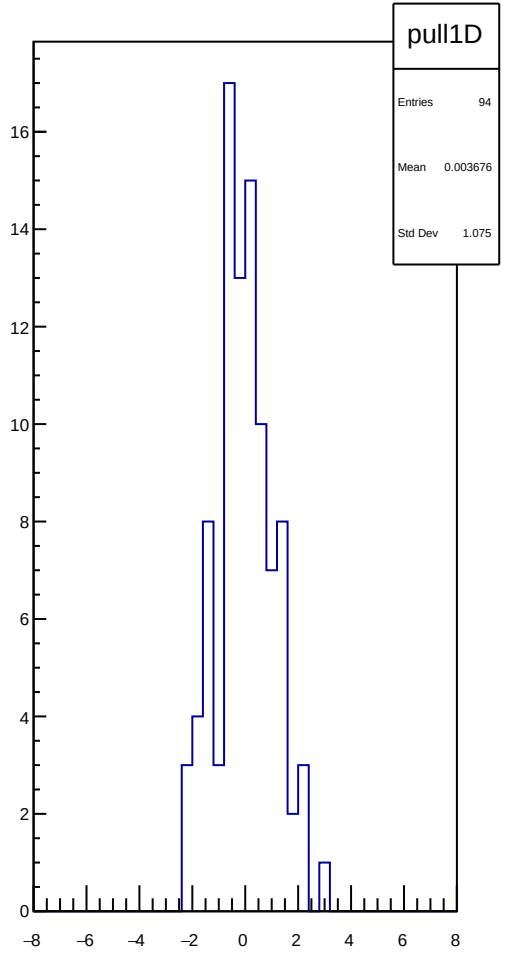

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 83.47 / 93
p0 1260 ± 0.9485
1290
1280
1270
1260
1250
1240
1230

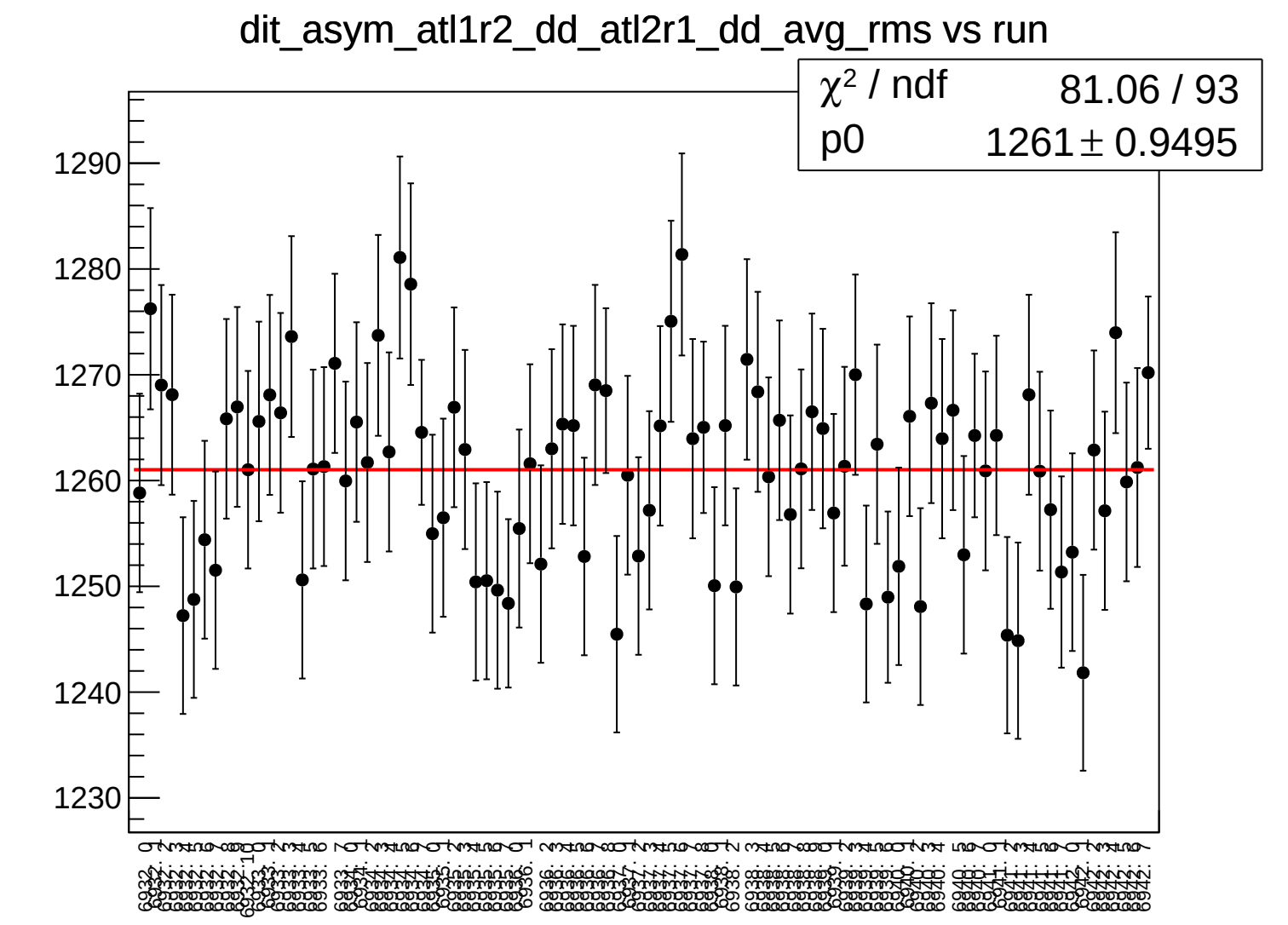

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.74 / 93
p0 483.3 ± 437.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 406.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

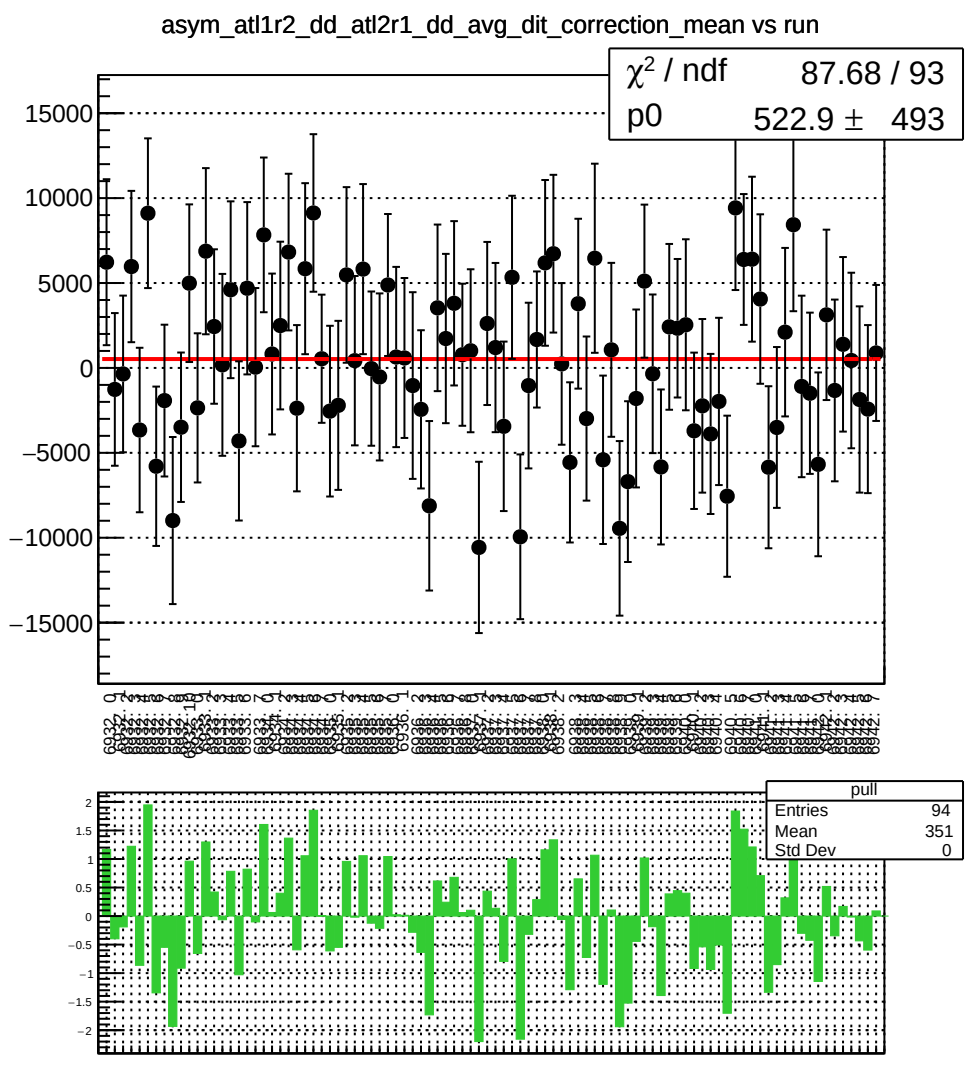

pull1D
Entries 94
Mean −0.008415
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

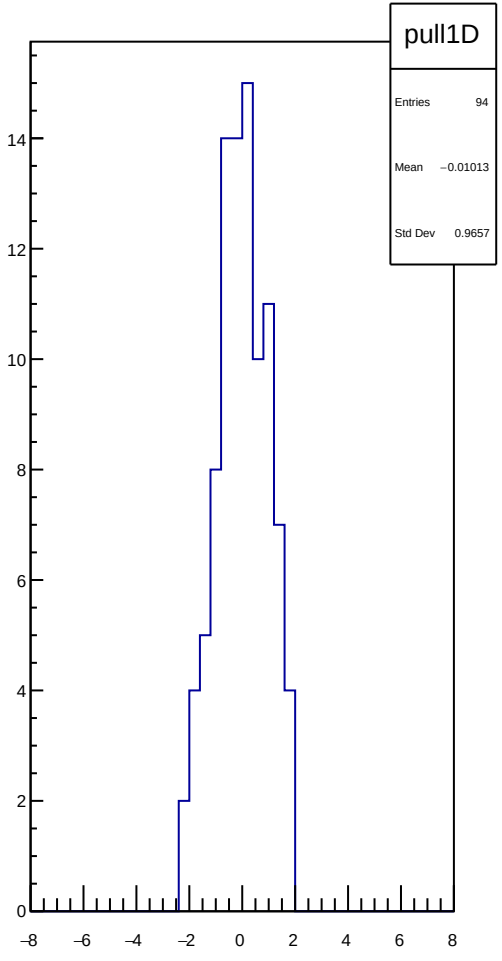

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 6895 / 93
p0 410.4 ± 0.3096
500
480
460
440
420
400
380
360

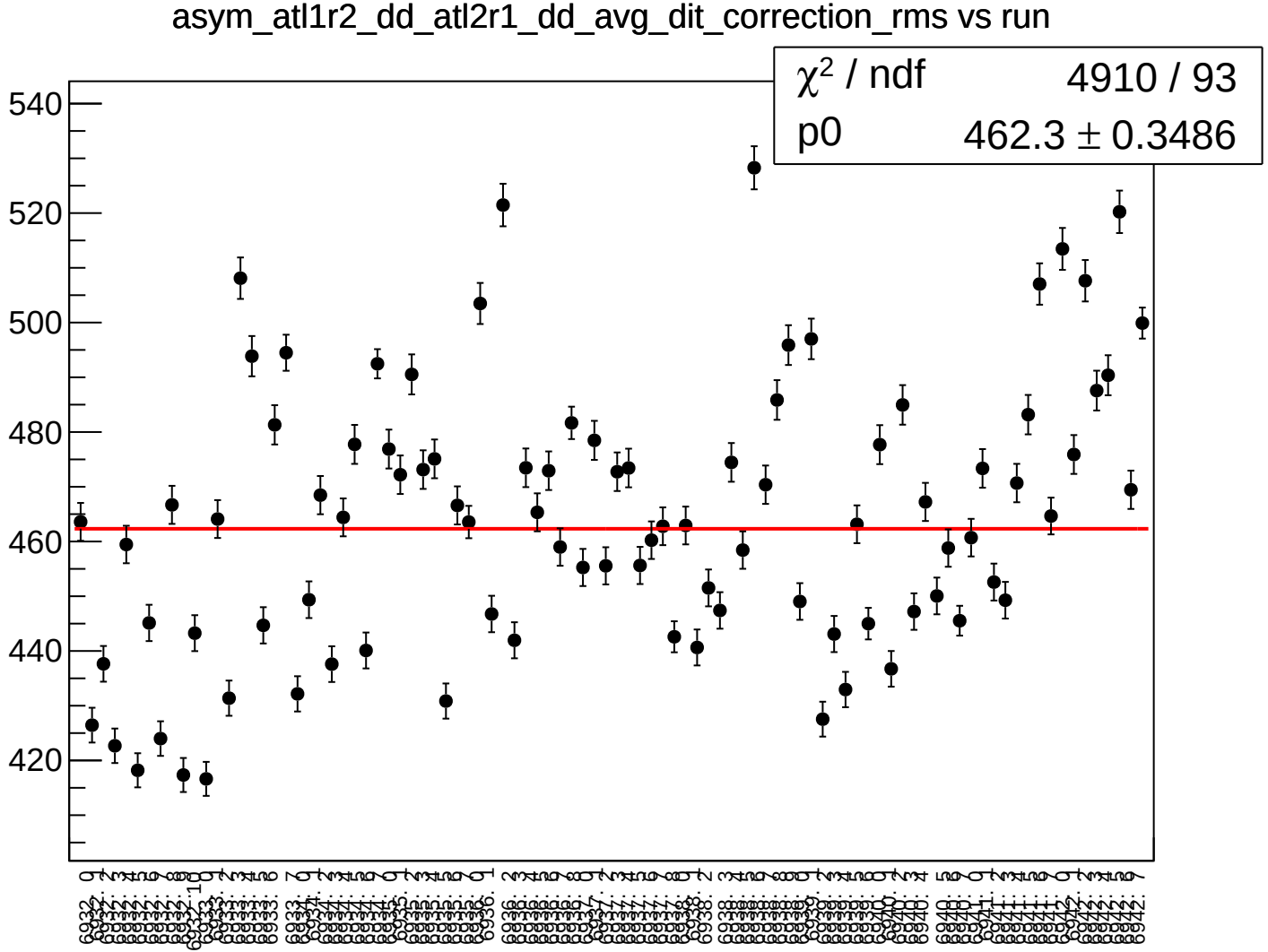

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108.7 / 93
p0 1037 ± 1343
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −910.3
Std Dev 0
3
2
1
0
−1
−2

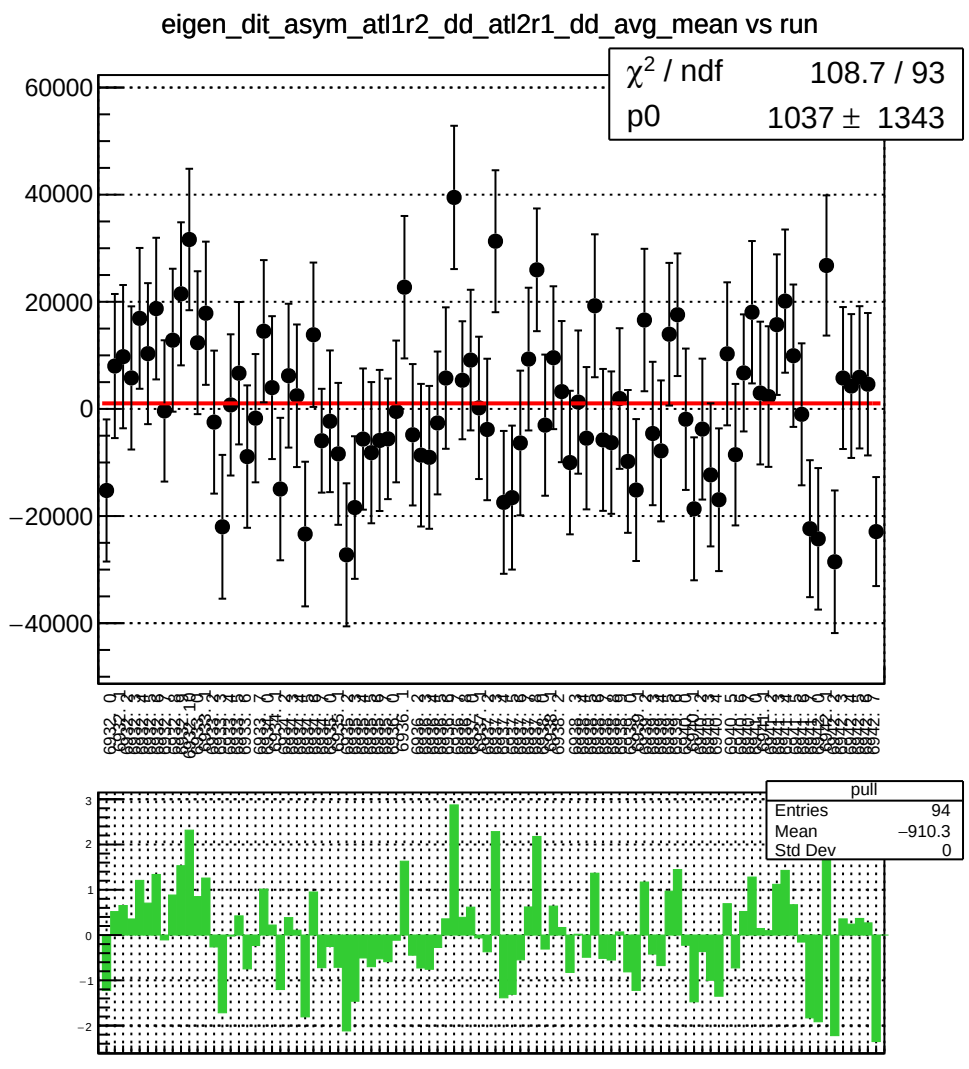

pull1D
Entries 94
Mean 0.003676
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

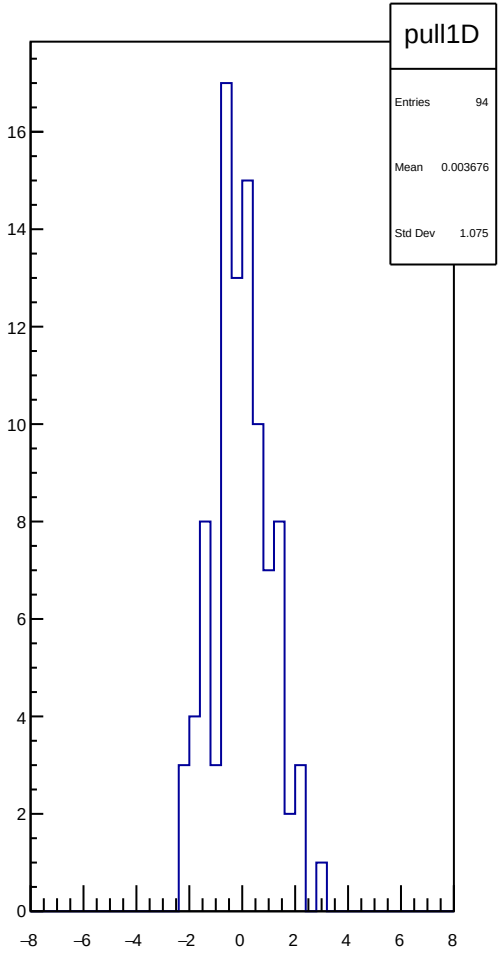

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 81.06 / 93
p0 1261 ± 0.9495
1290
1280
1270
1260
1250
1240
1230

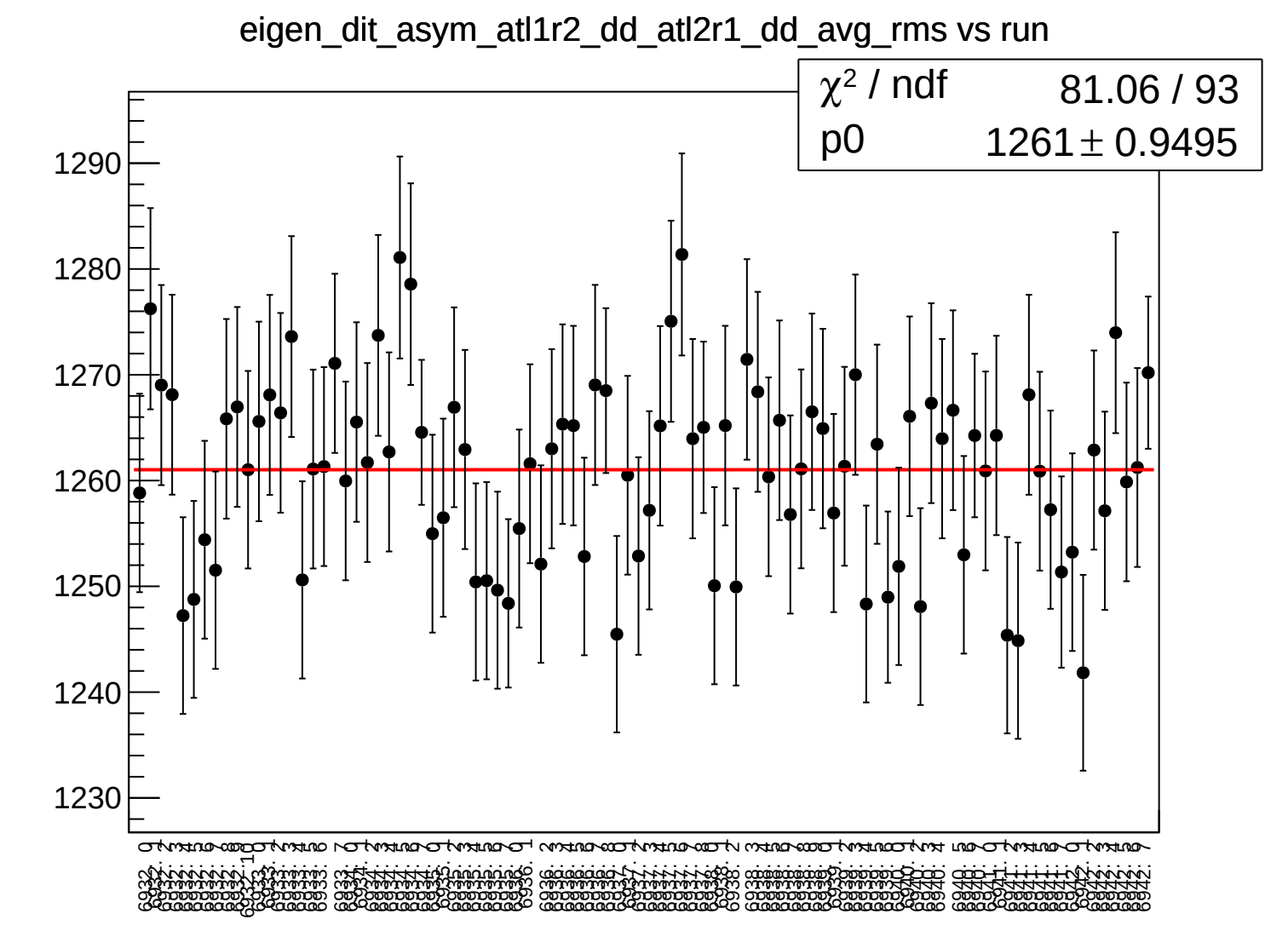

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 87.68 / 93
p0 522.9 ± 493
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 351
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

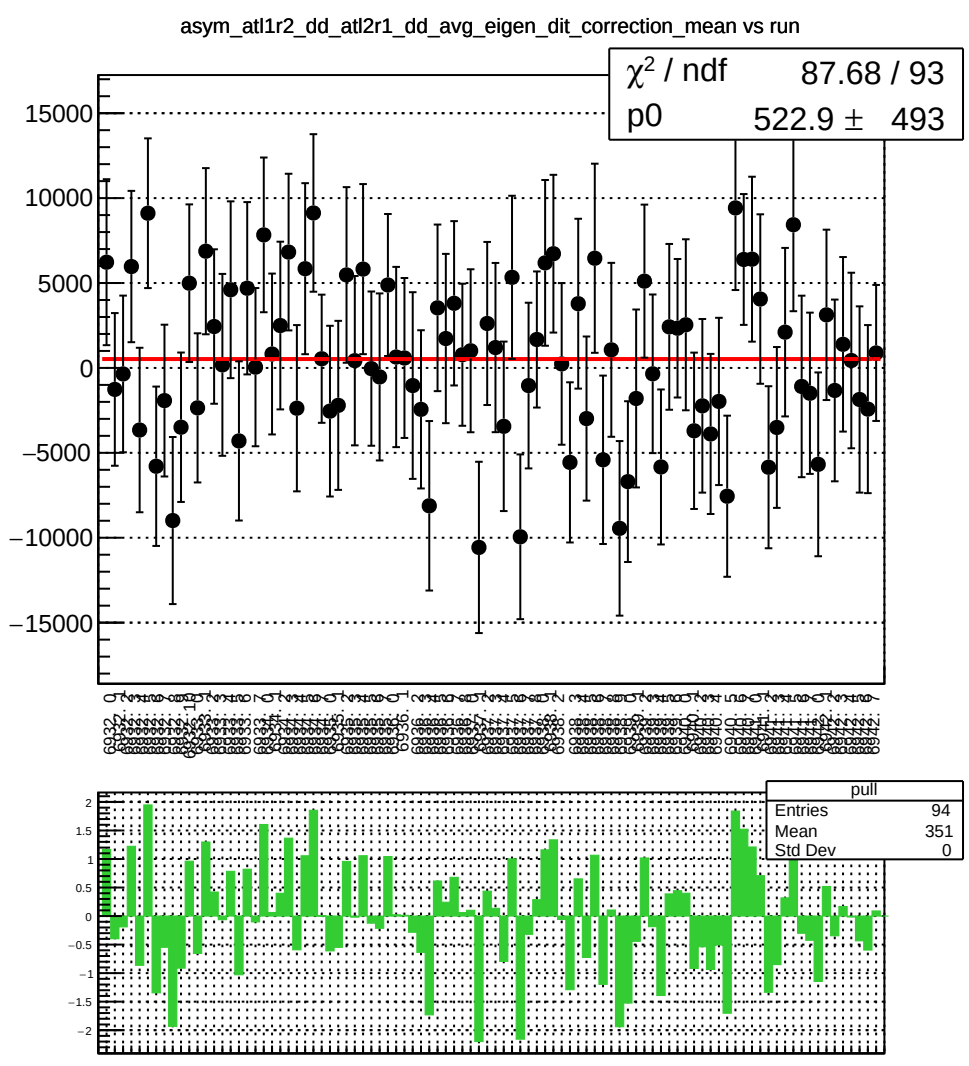

pull1D
Entries 94
Mean −0.01013
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

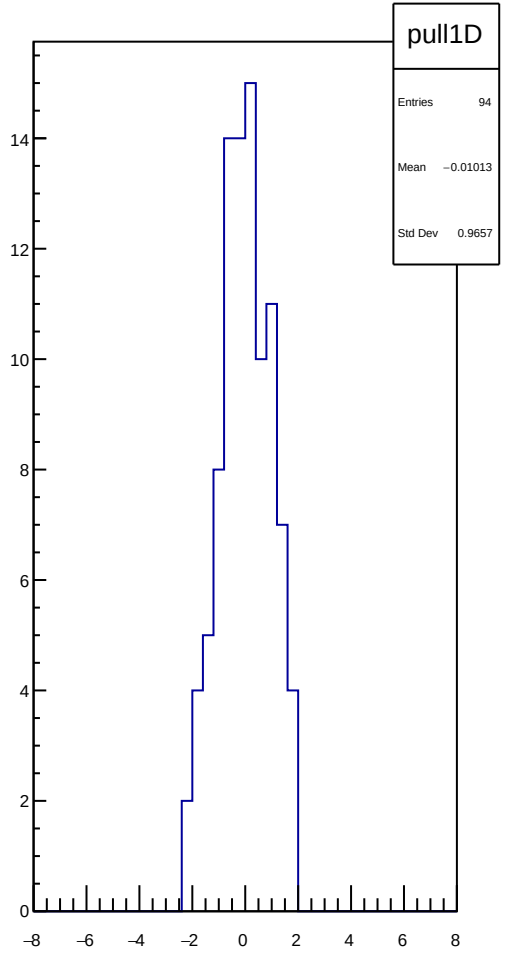

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4910 / 93
p0 462.3 ± 0.3486
540
520
500
480
460
440
420

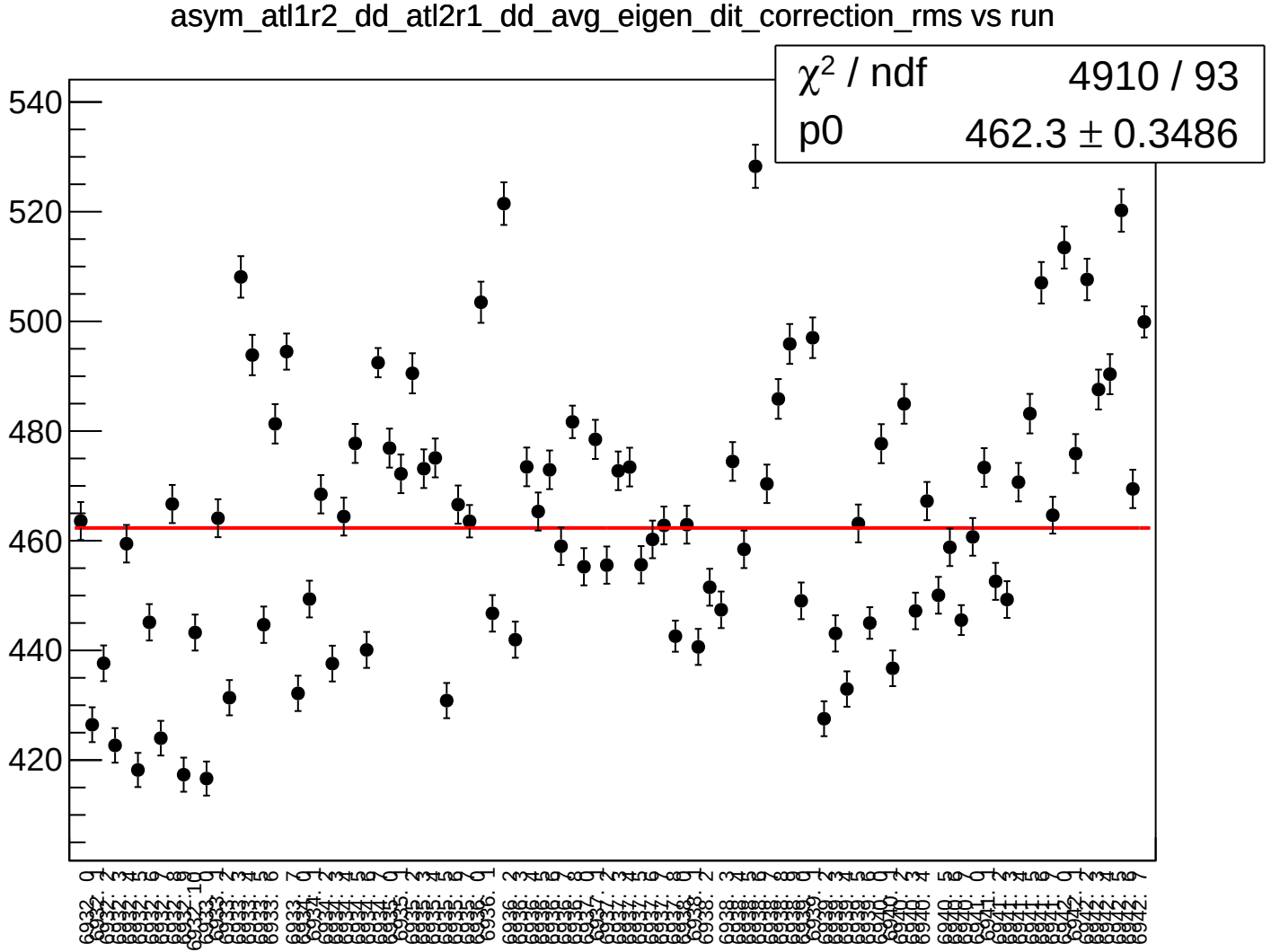

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 108.7 / 93
p0 1037 ± 1343
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −910.3
Std Dev 0
3
2
1
0
−1
−2

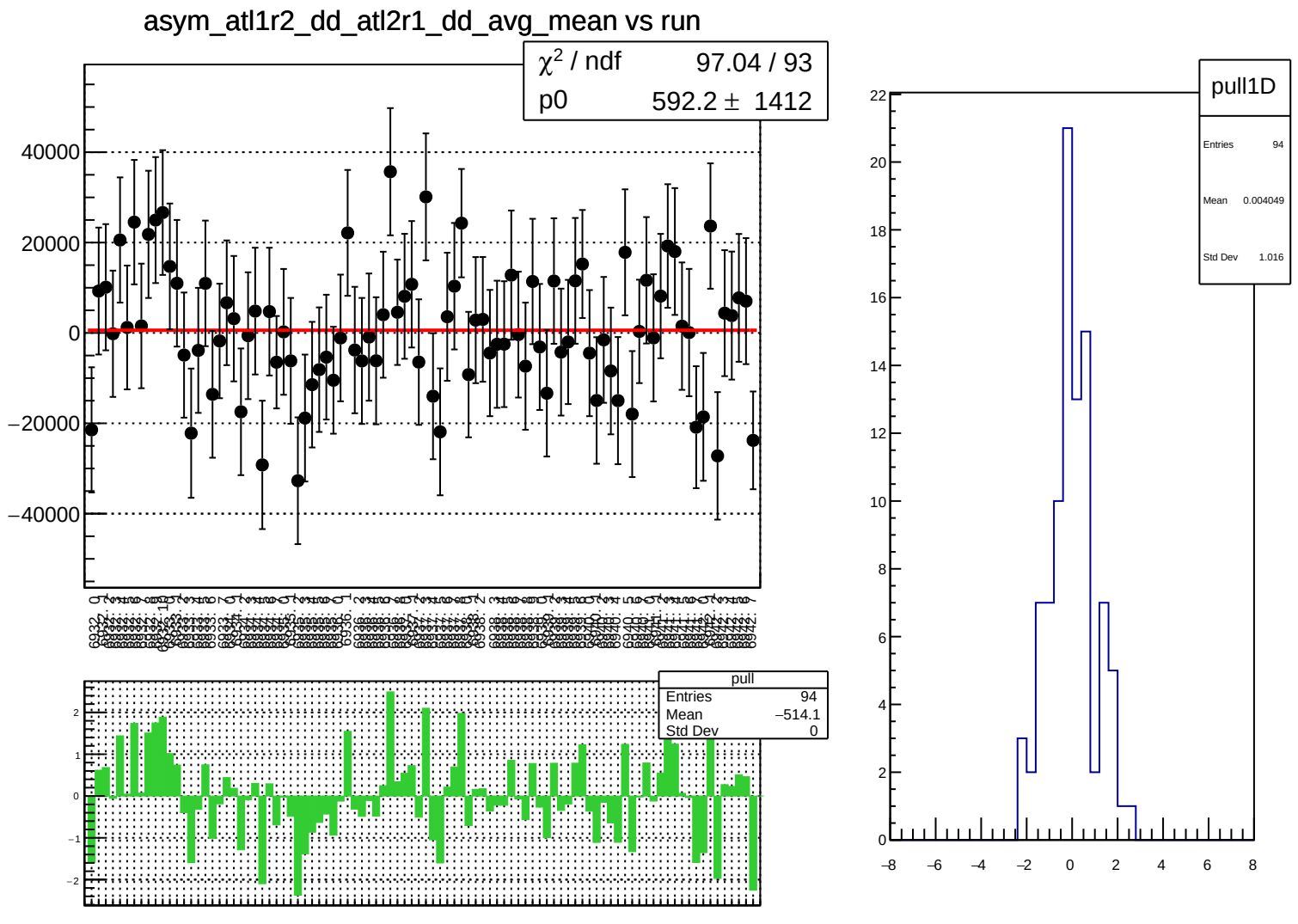

pull1D
Entries 94
Mean 0.003676
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

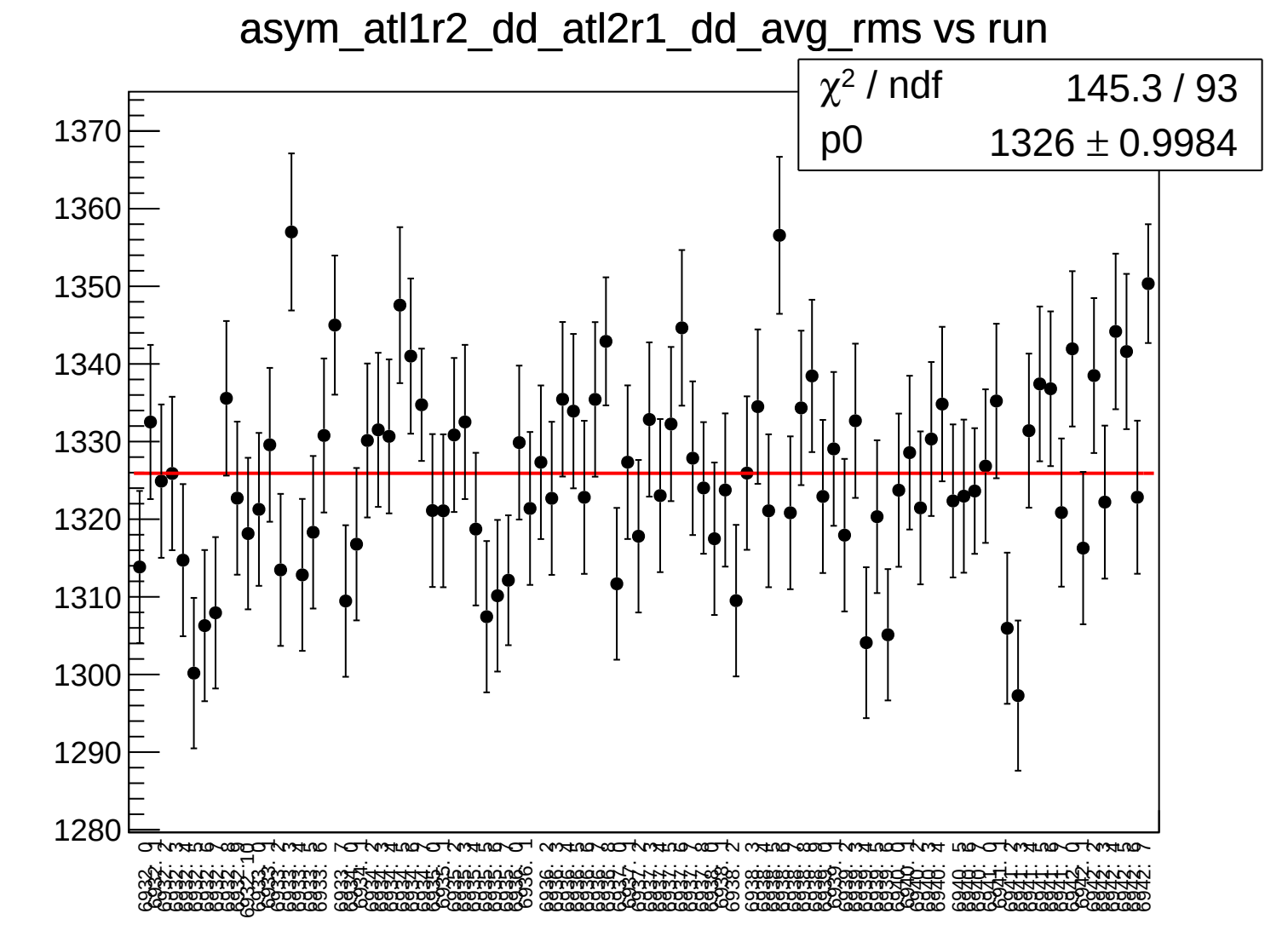

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 81.06 / 93
p0 1261 ± 0.9495
1290
1280
1270
1260
1250
1240
1230

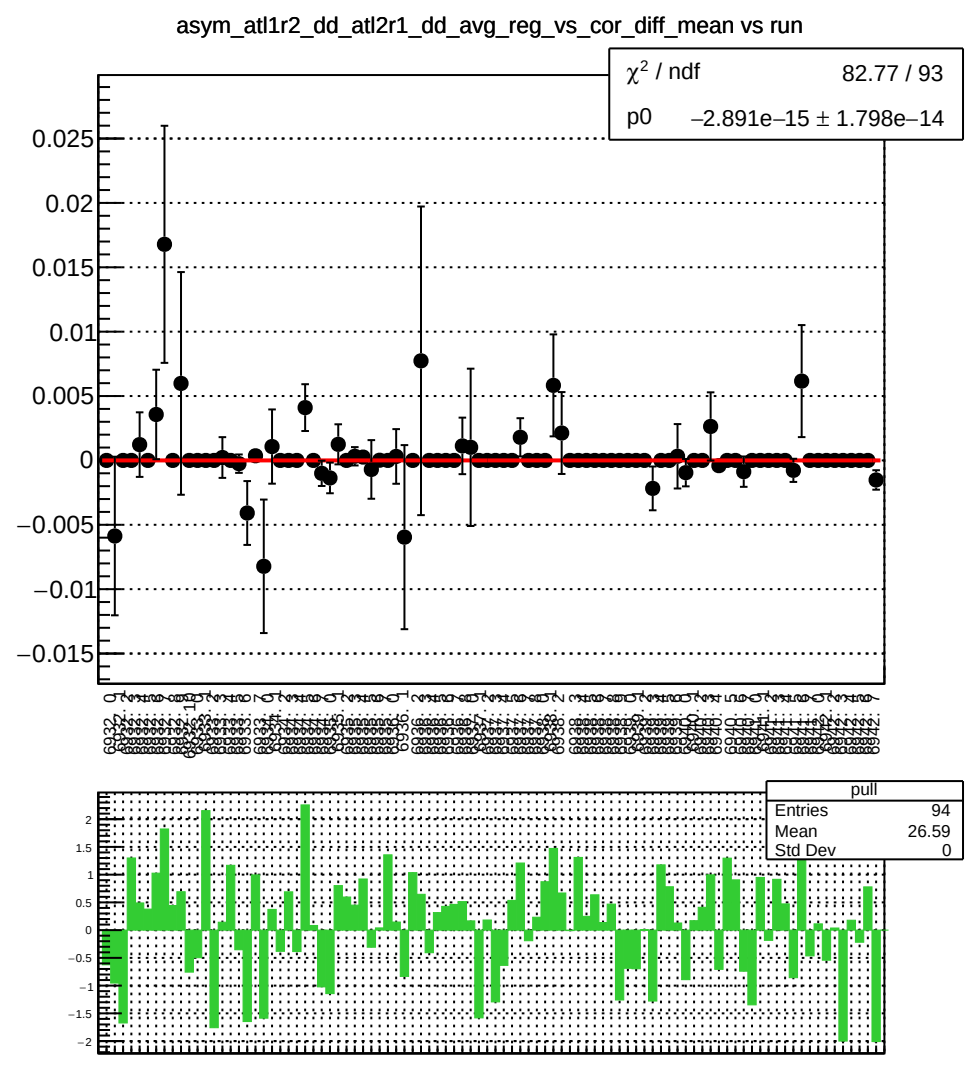

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.68 / 93
p0 522.9 ± 493
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 351
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

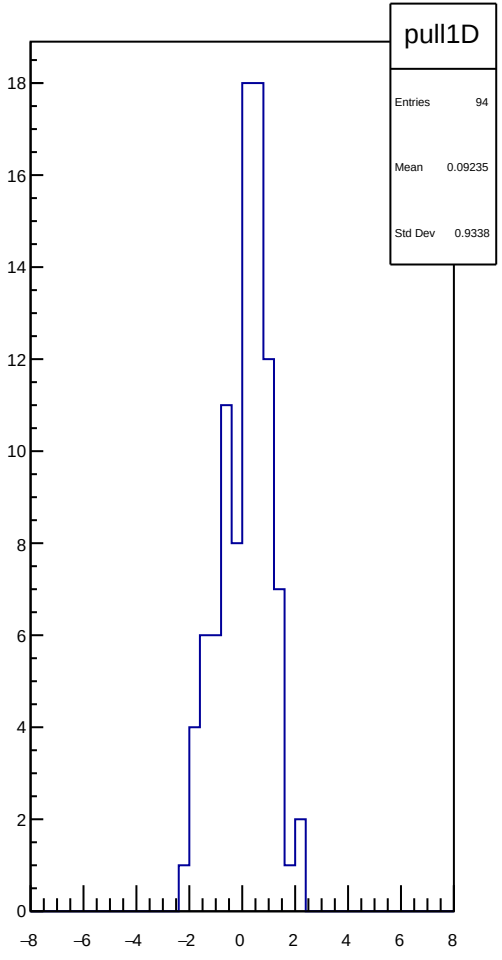

pull1D
Entries 94
Mean −0.01013
Std Dev 0.9657
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

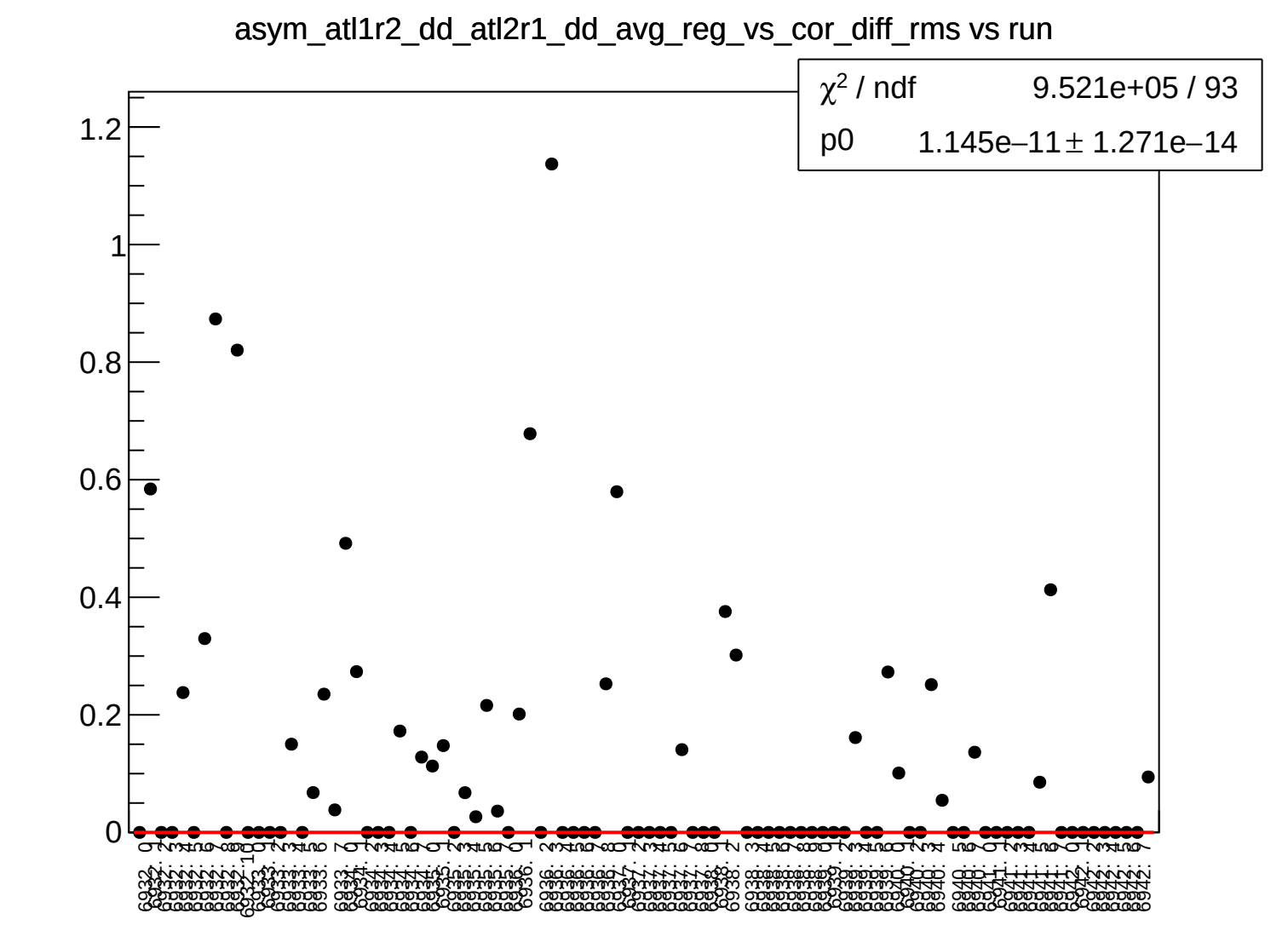

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4910 / 93
p0 462.3 ± 0.3486
540
520
500
480
460
440
420

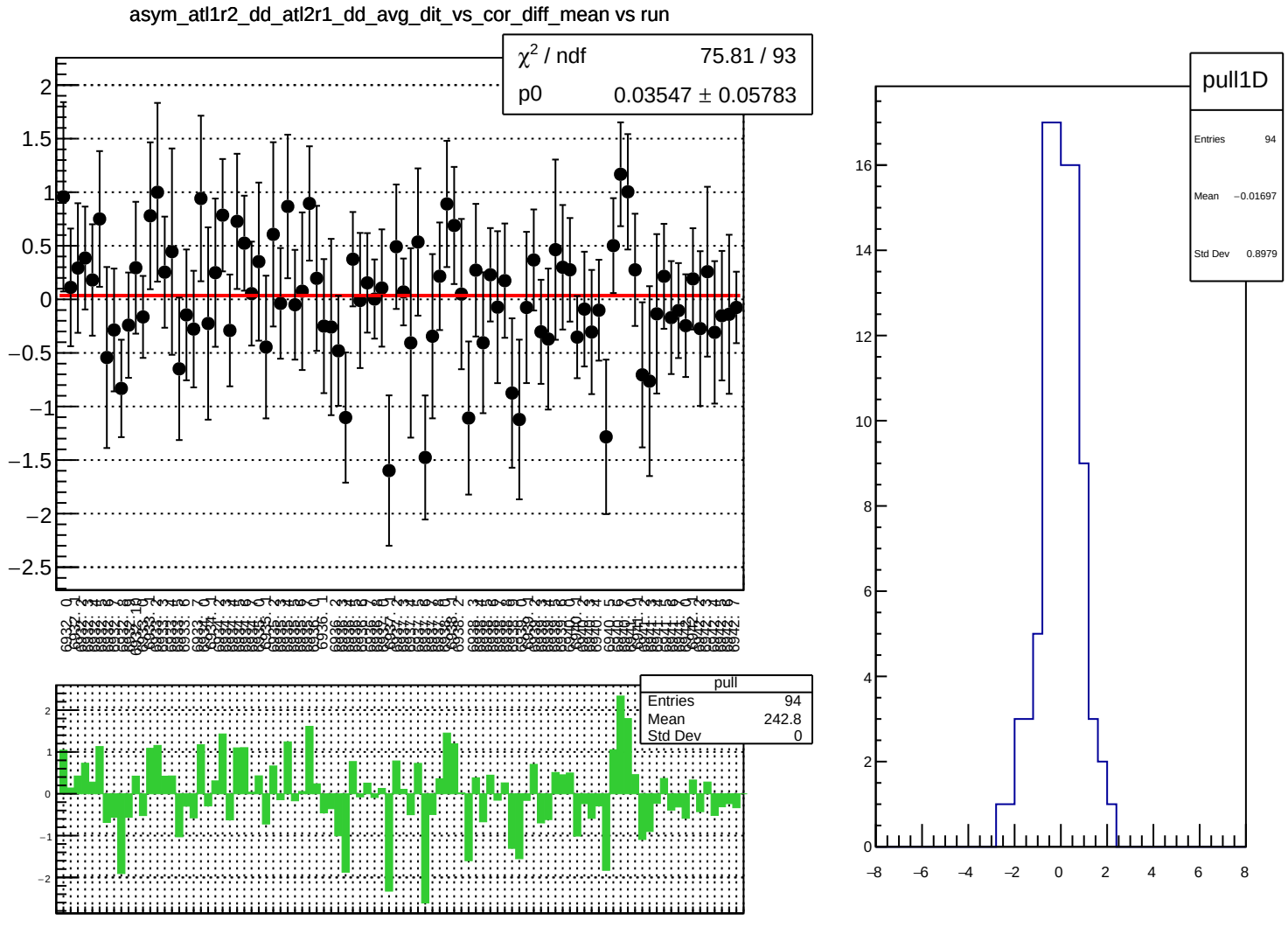

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.04 / 93
p0 592.2 ± 1412
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −514.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004049
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

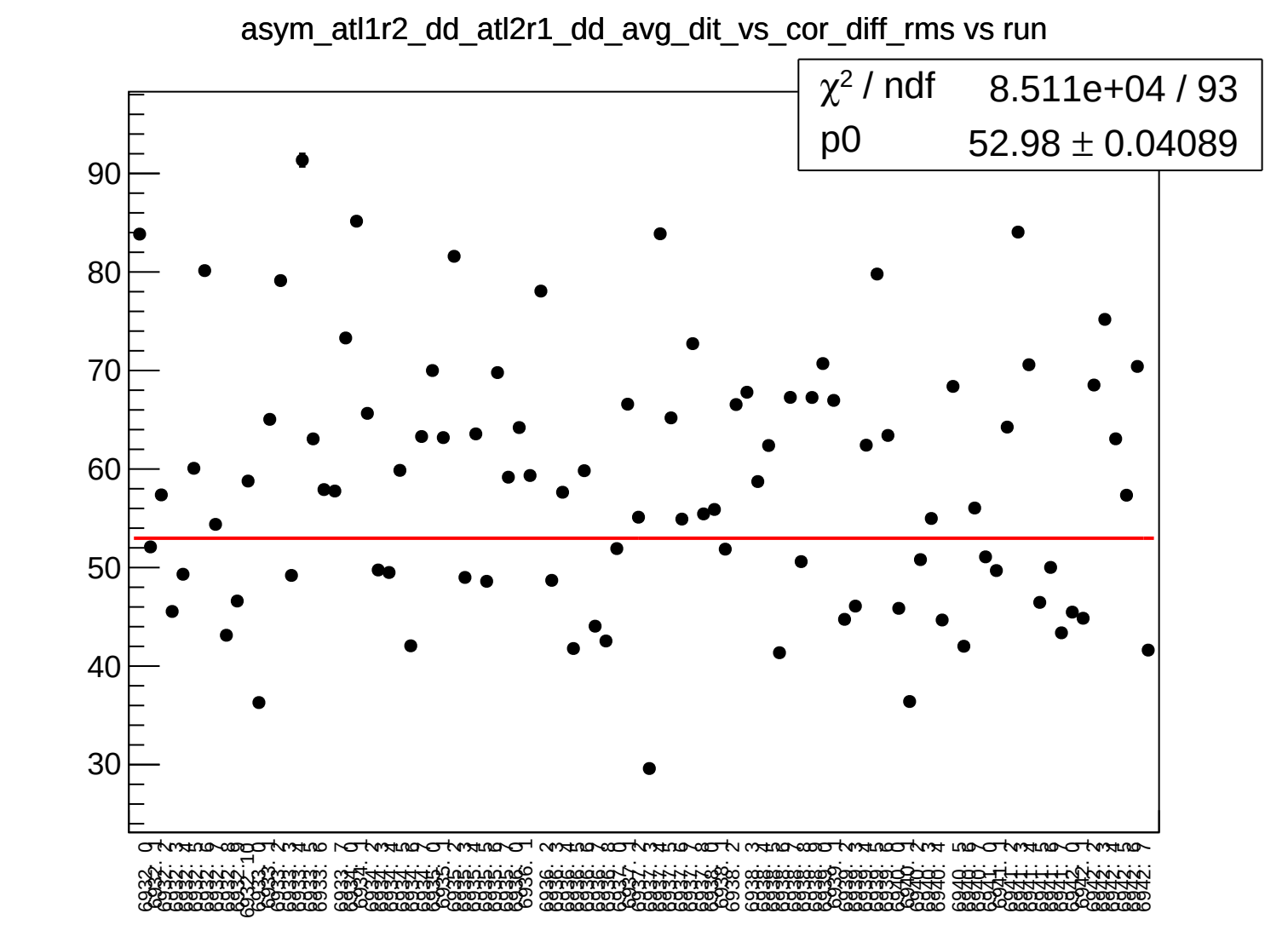

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 145.3 / 93
p0 1326 ± 0.9984
1370
1360
1350
1340
1330
1320
1310
1300
1290
1280

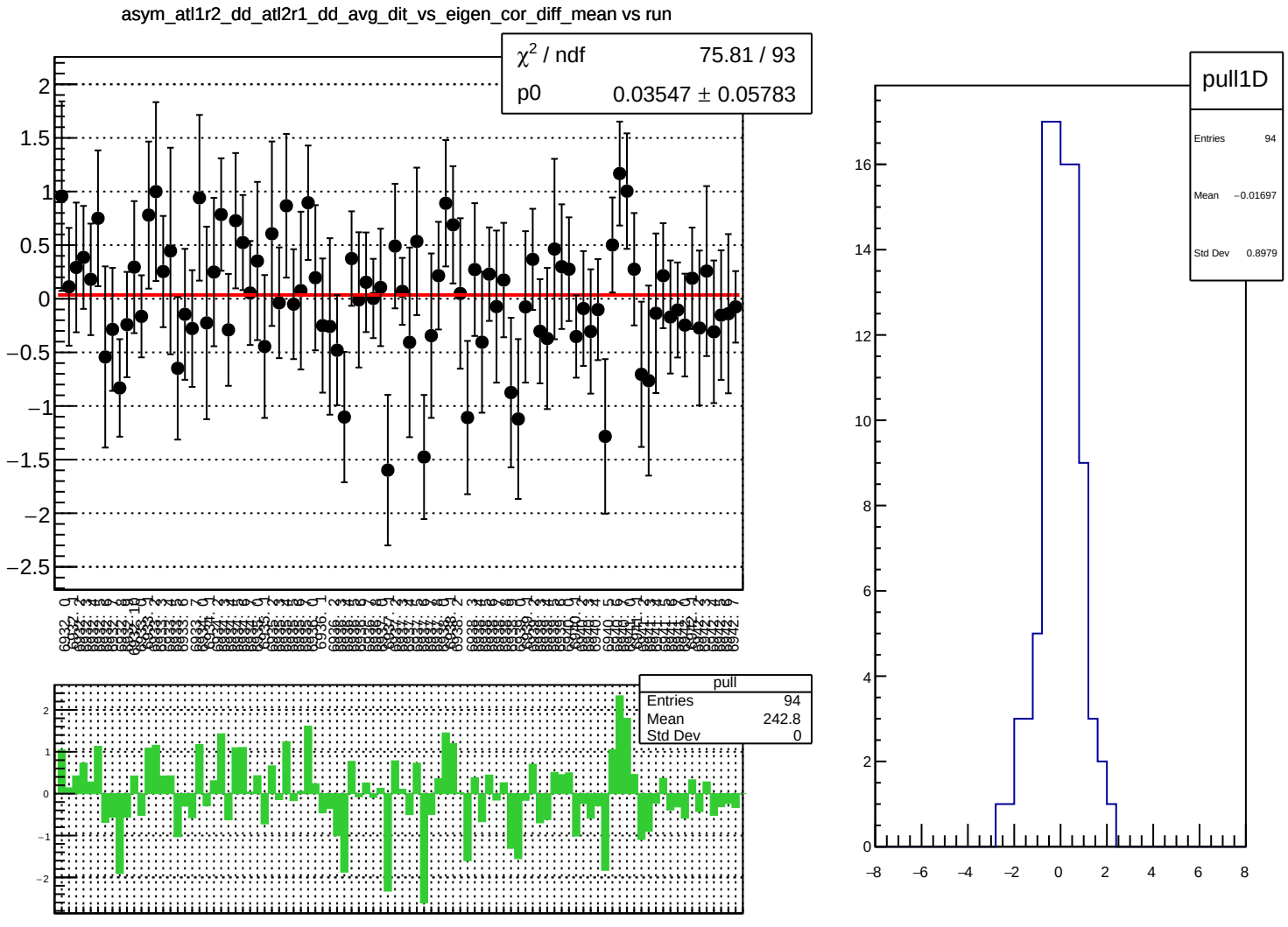

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.77 / 93
p0 −2.891e−15 ± 1.798e−14
pull
Entries 94
Mean 26.59
Std Dev 0

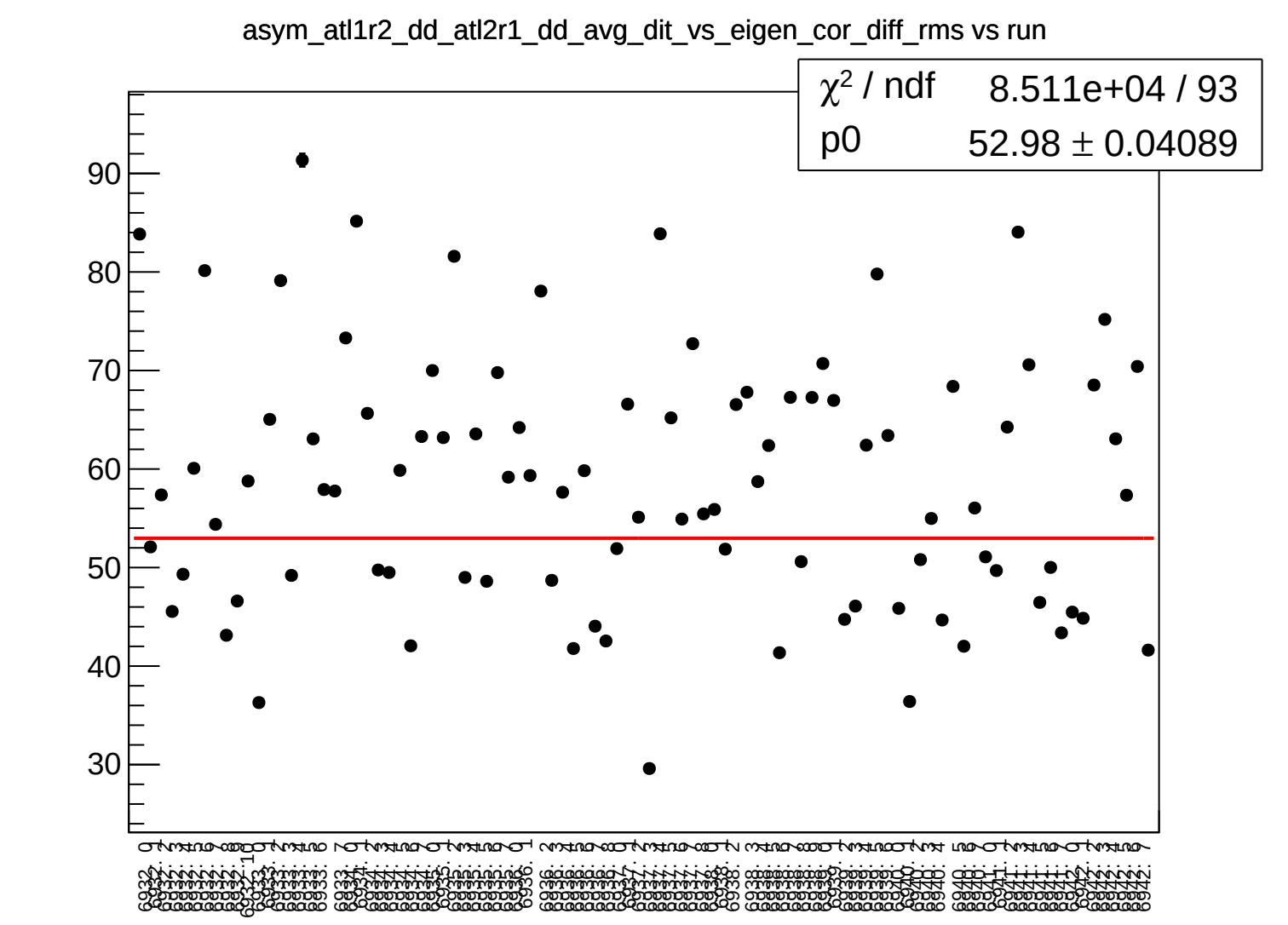

pull1D
Entries 94
Mean 0.09235
Std Dev 0.9338

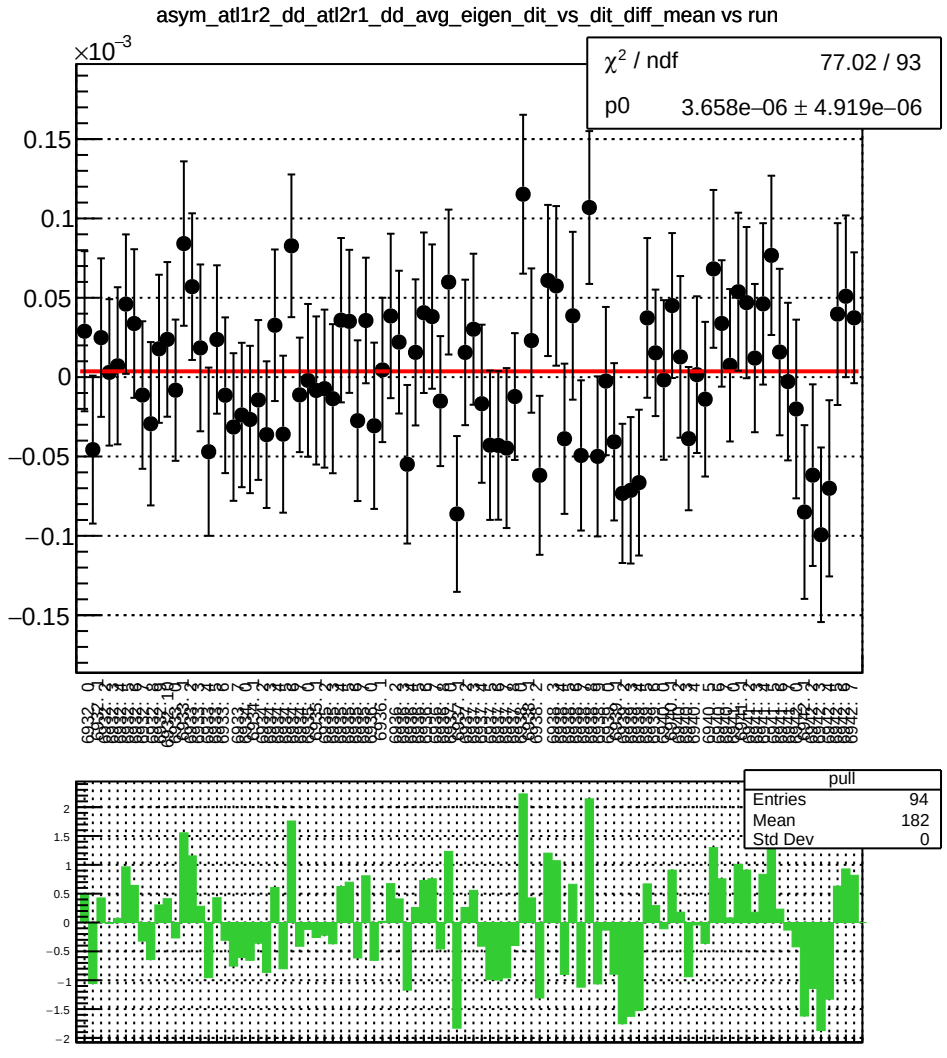

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.521e+05 / 93
p0 1.145e−11 ± 1.271e−14
1.2
1
0.8
0.6
0.4
0.2
0

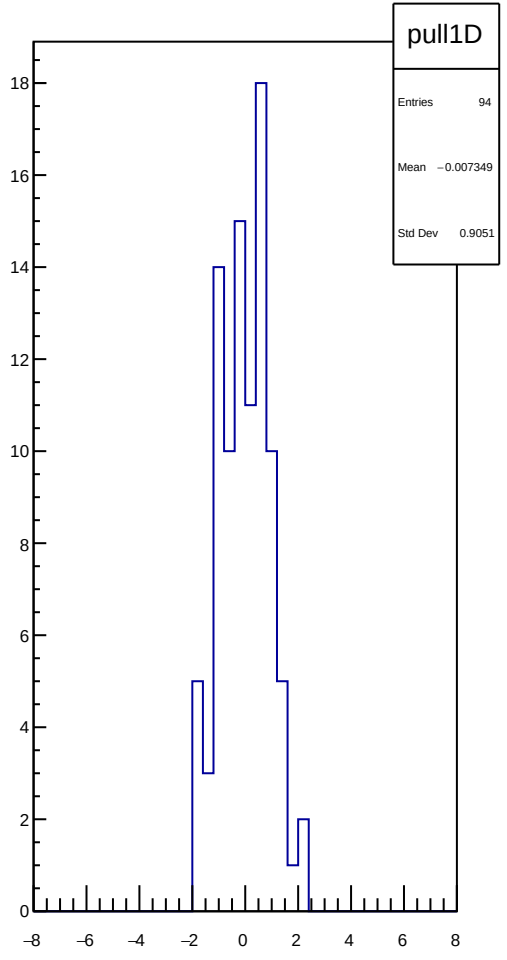

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.8
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

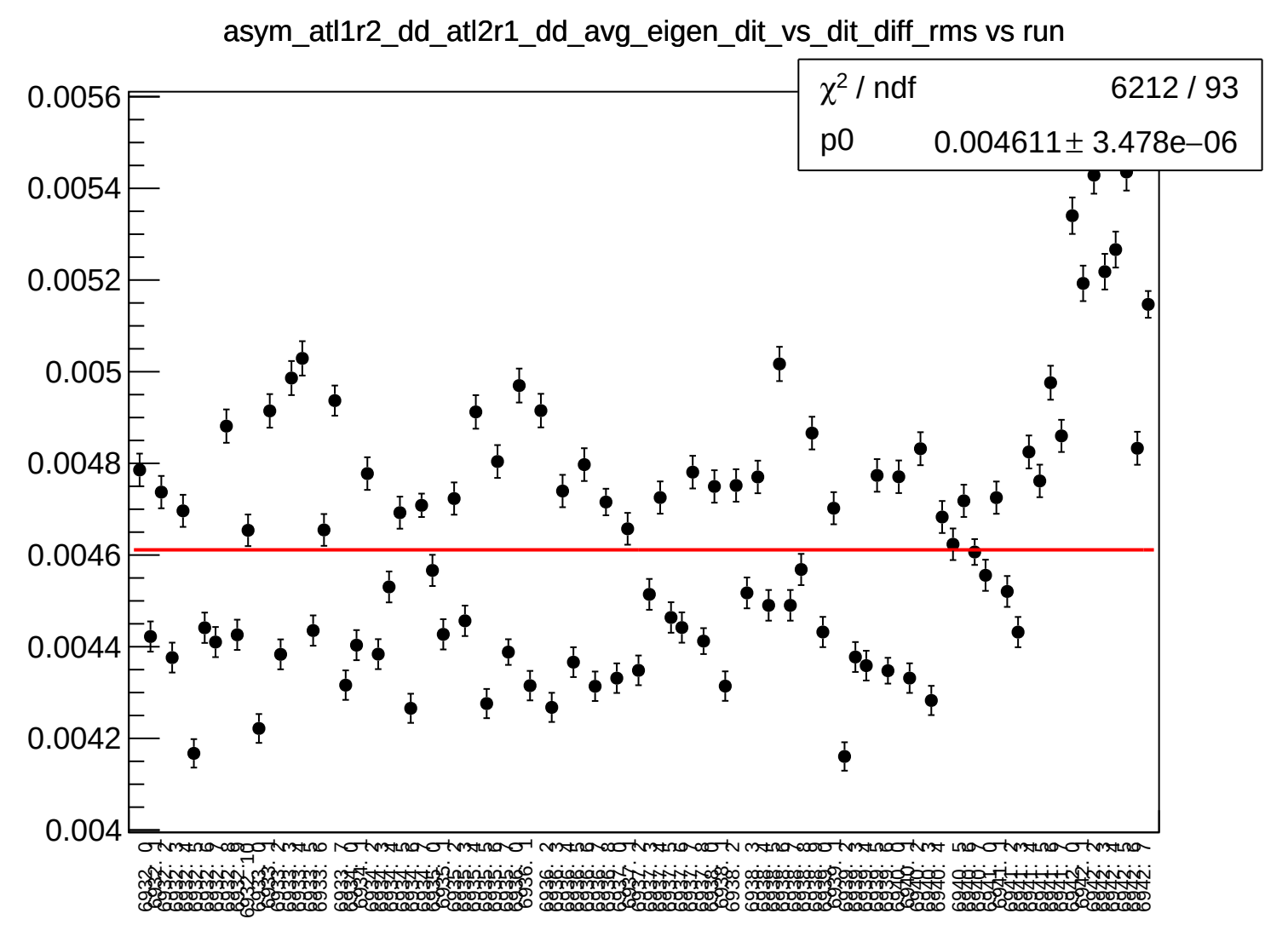

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

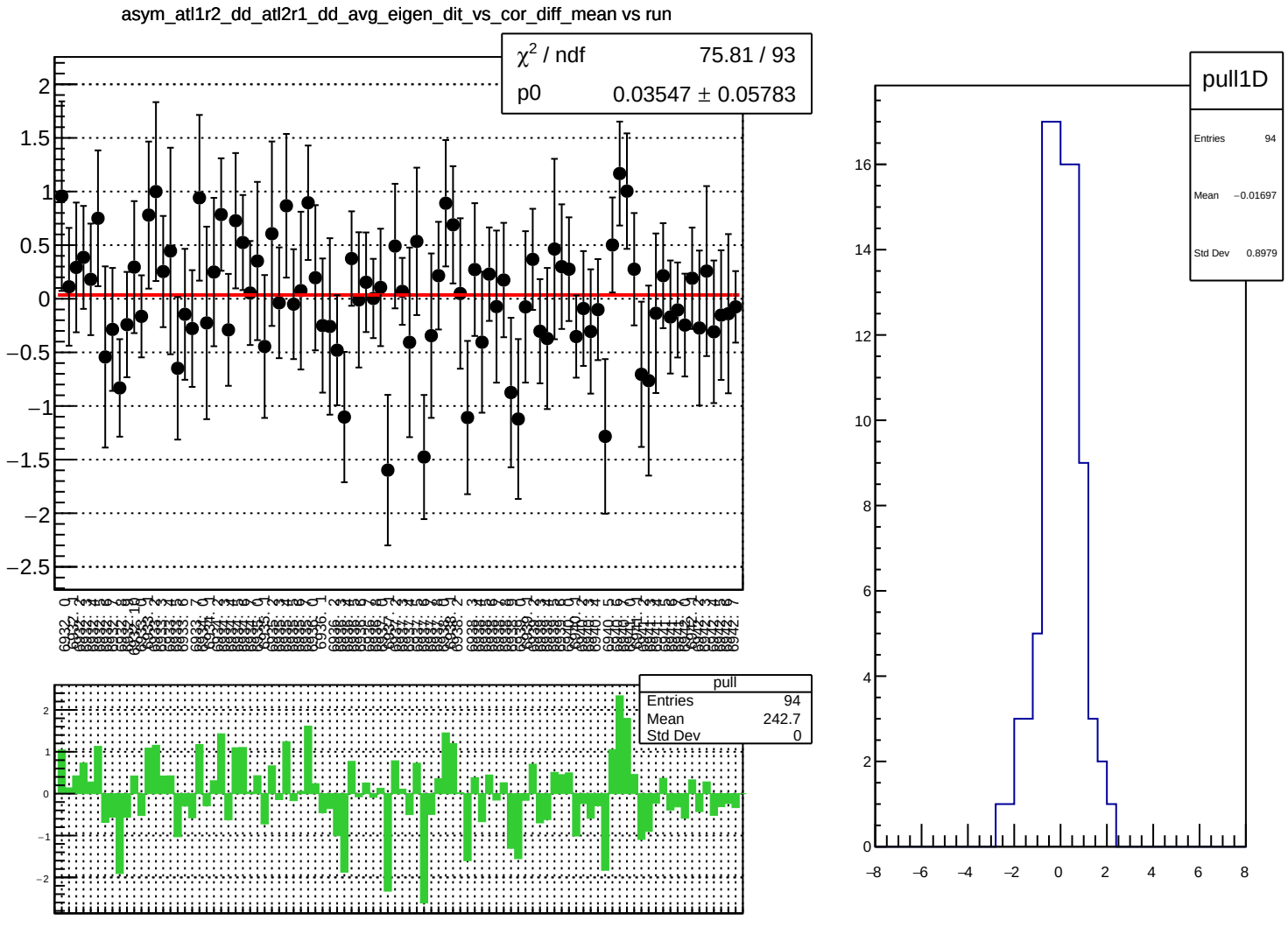

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.8
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

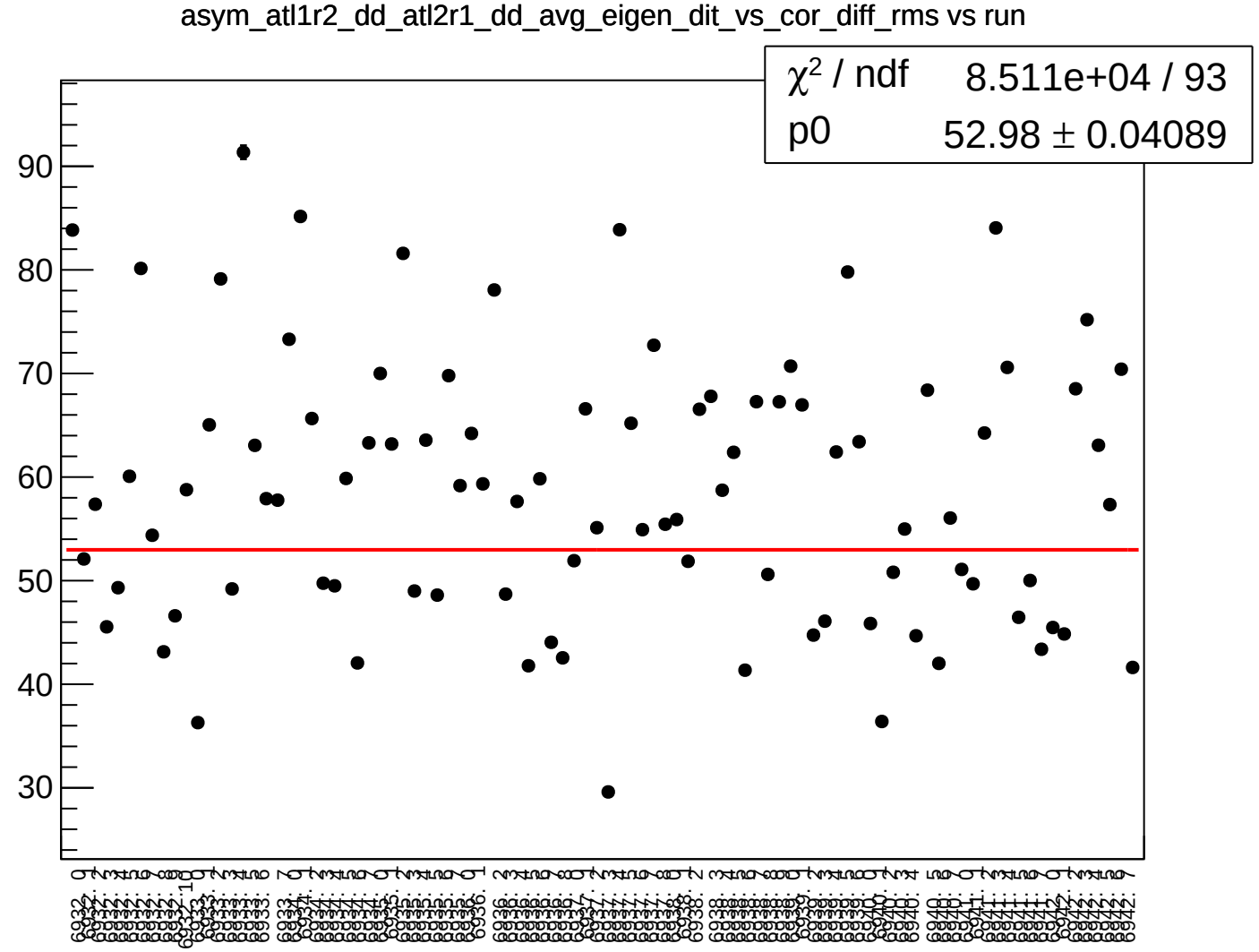

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

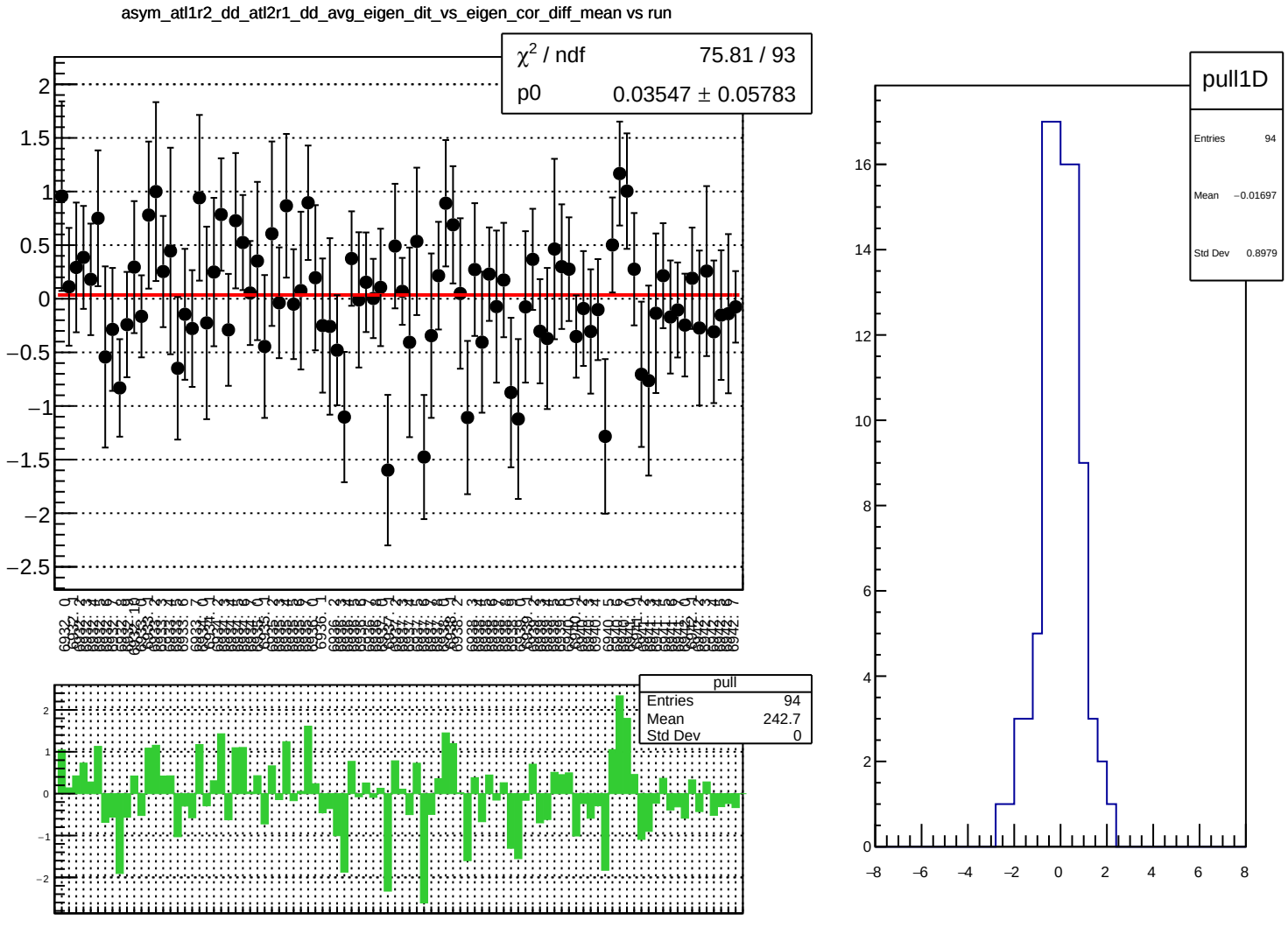

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.02 / 93
p0 3.658e−06 ± 4.919e−06
pull
Entries 94
Mean 182
Std Dev 0

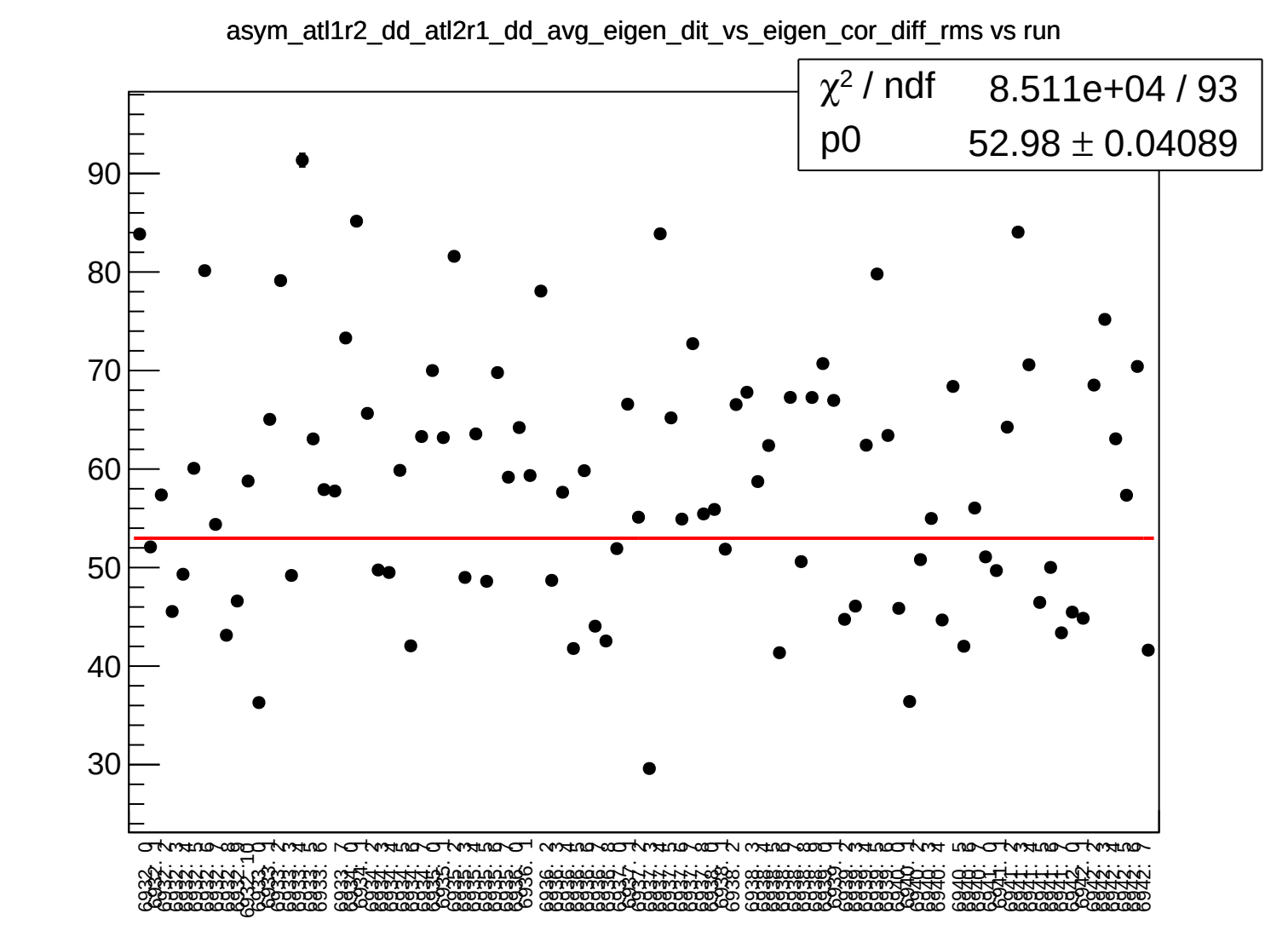

pull1D
Entries 94
Mean −0.007349
Std Dev 0.9051

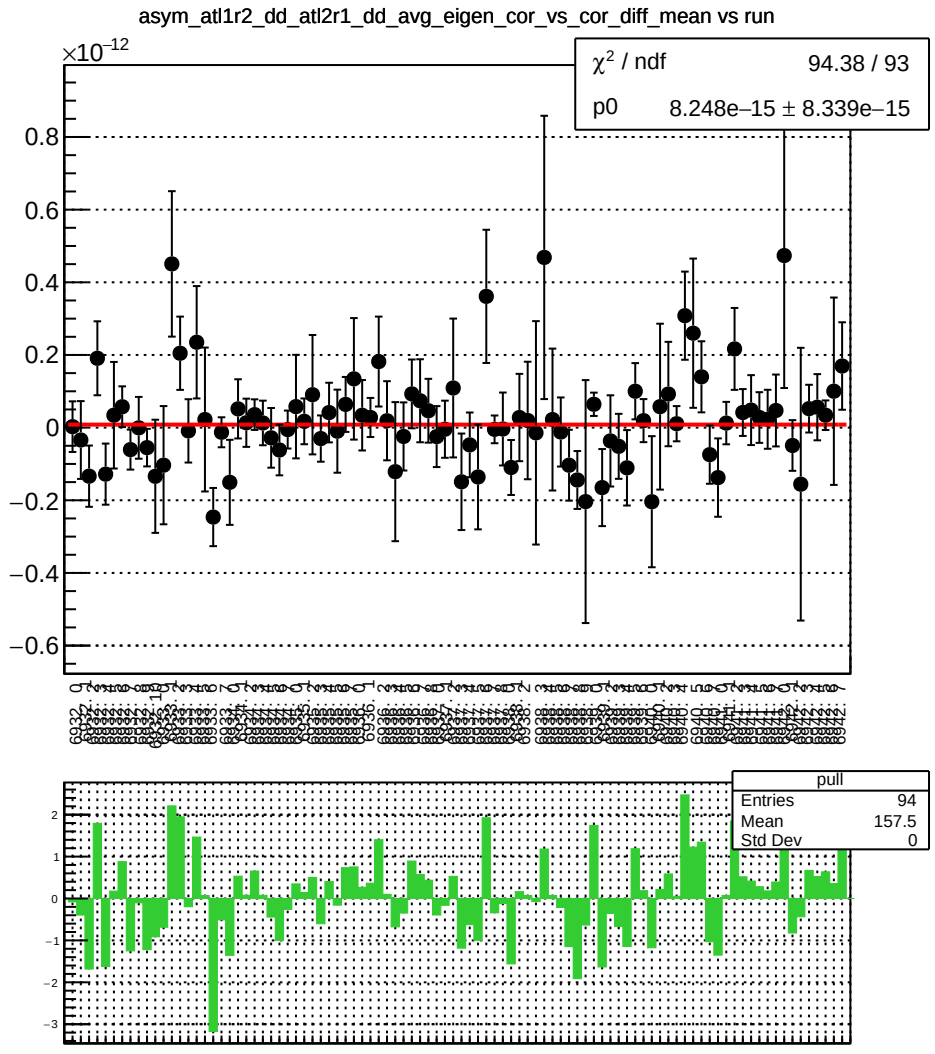

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6212 / 93
p0 0.004611 ± 3.478e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

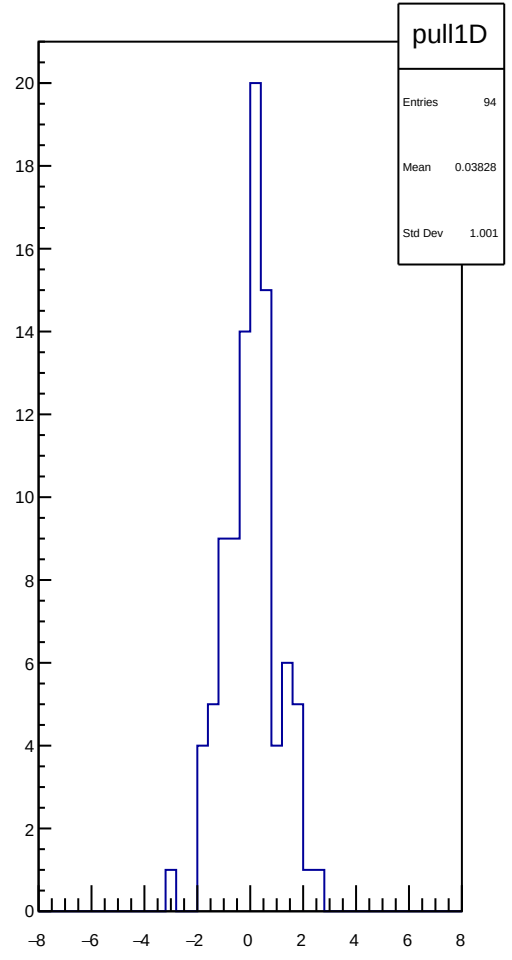

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.7
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

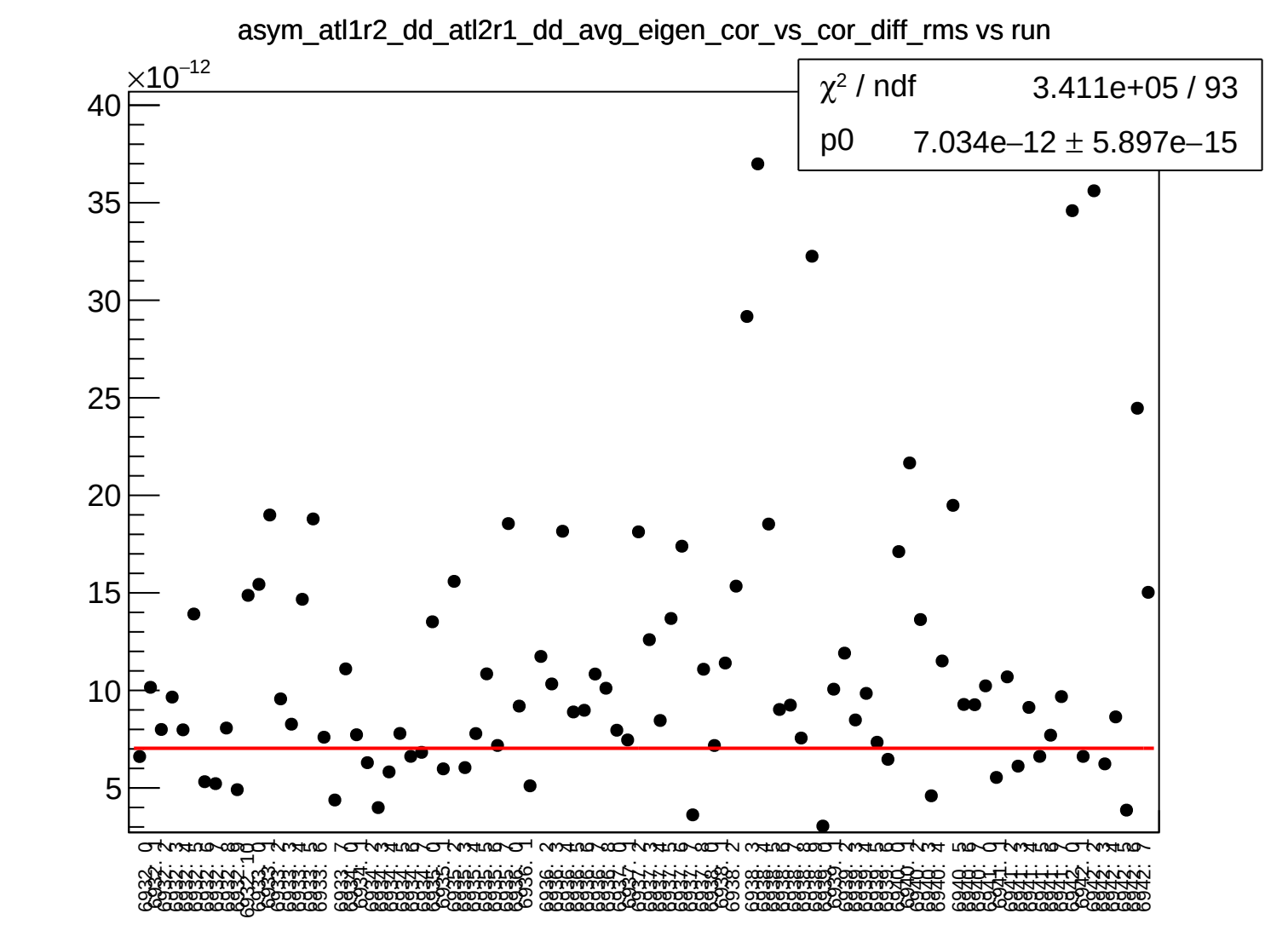

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

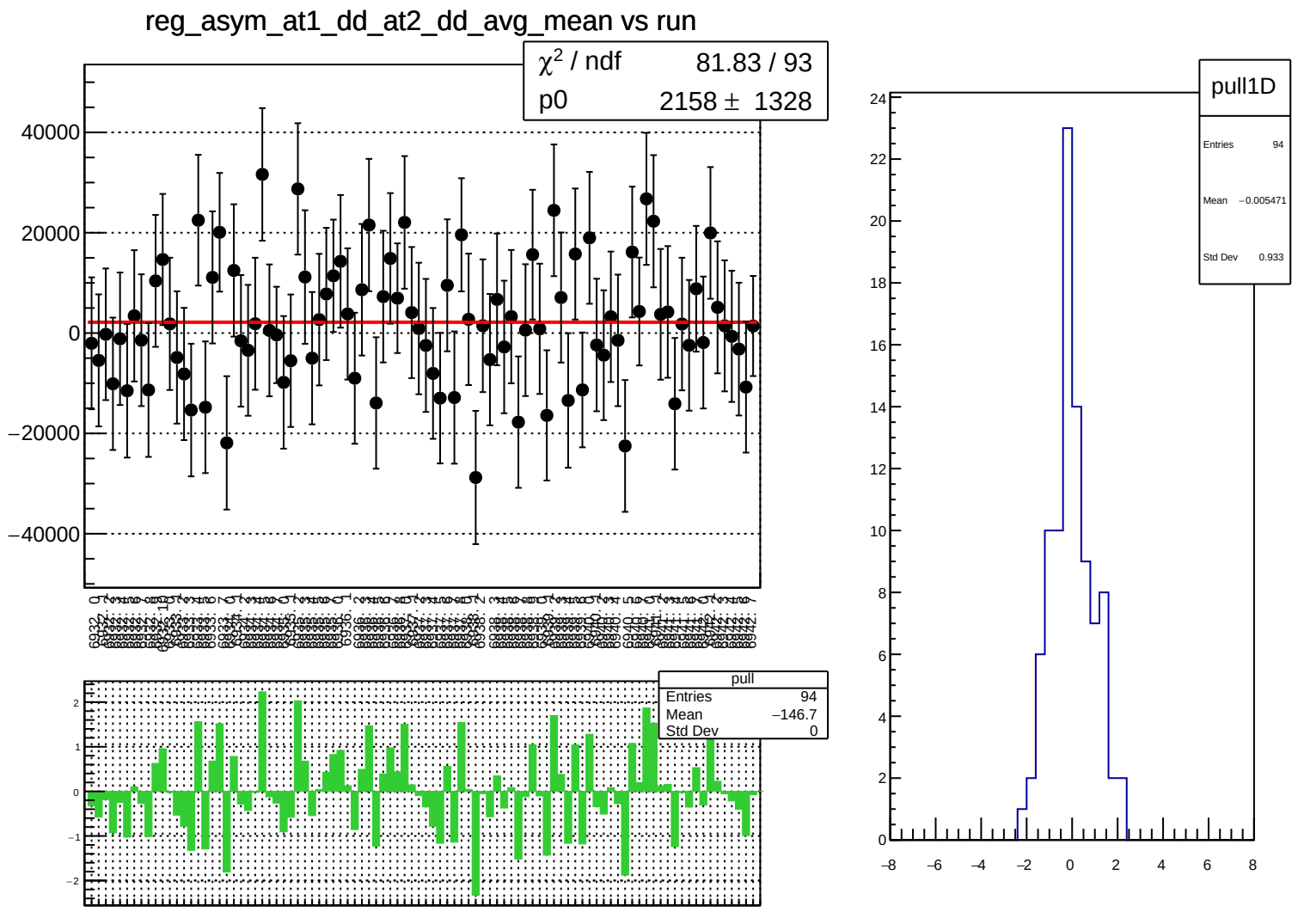

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.81 / 93
p0 0.03547 ± 0.05783
pull
Entries 94
Mean 242.7
Std Dev 0
pull1D
Entries 94
Mean −0.01697
Std Dev 0.8979

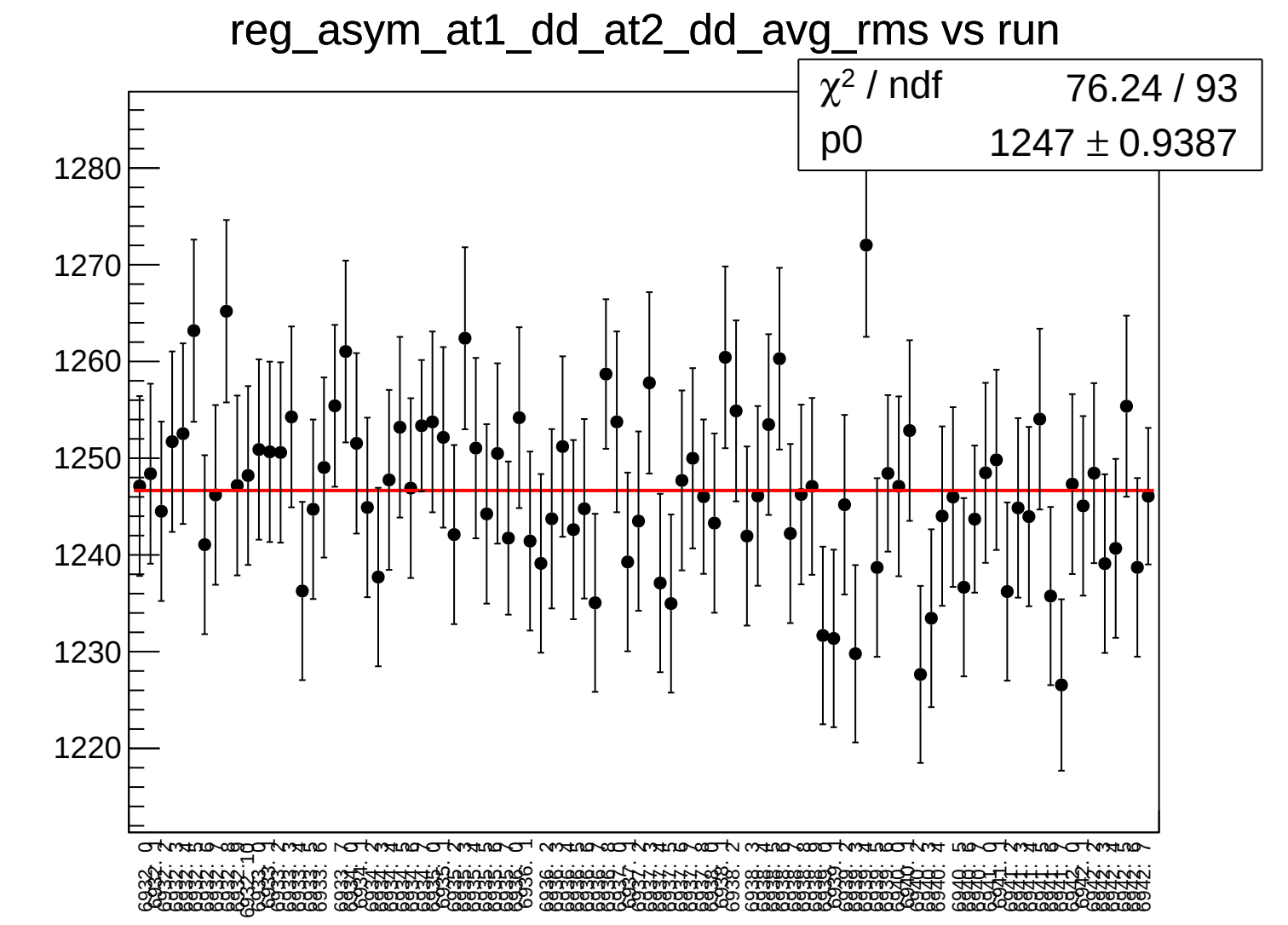

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 52.98 ± 0.04089
90
80
70
60
50
40
30

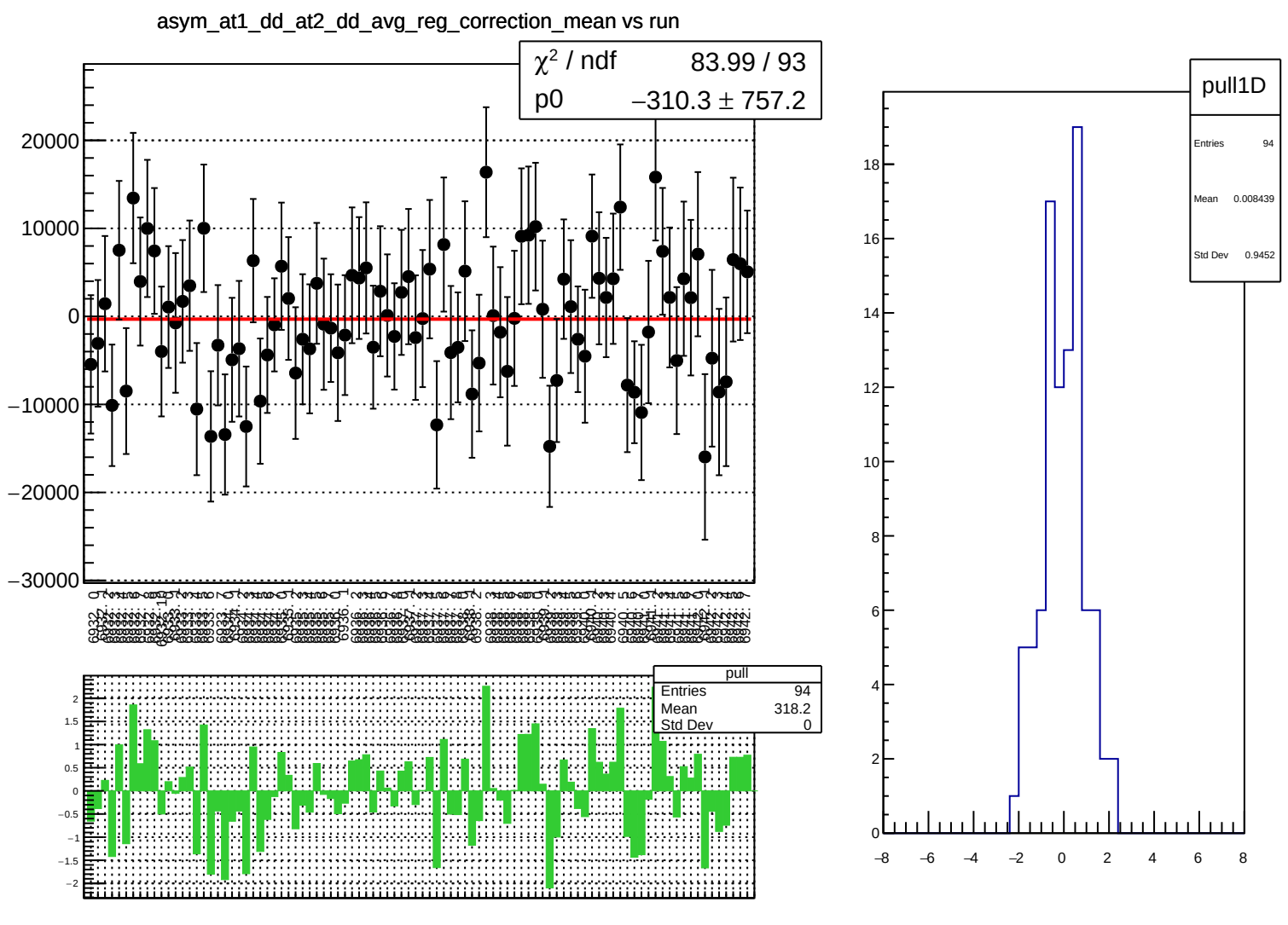

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 94.38 / 93
p0 8.248e−15 ± 8.339e−15
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 157.5
Std Dev 0
2
1
0
−1
−2
−3

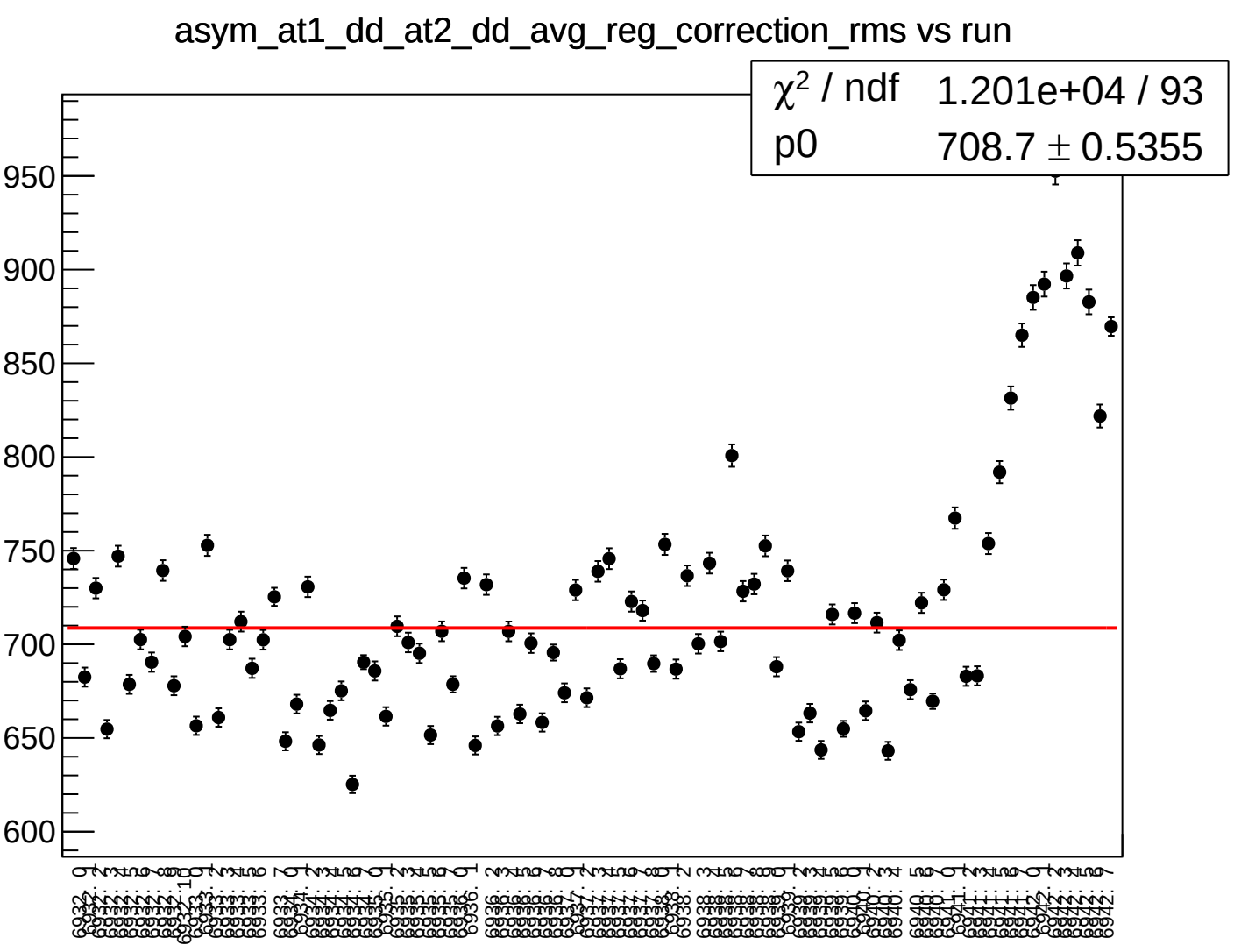

pull1D
Entries 94
Mean 0.03828
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

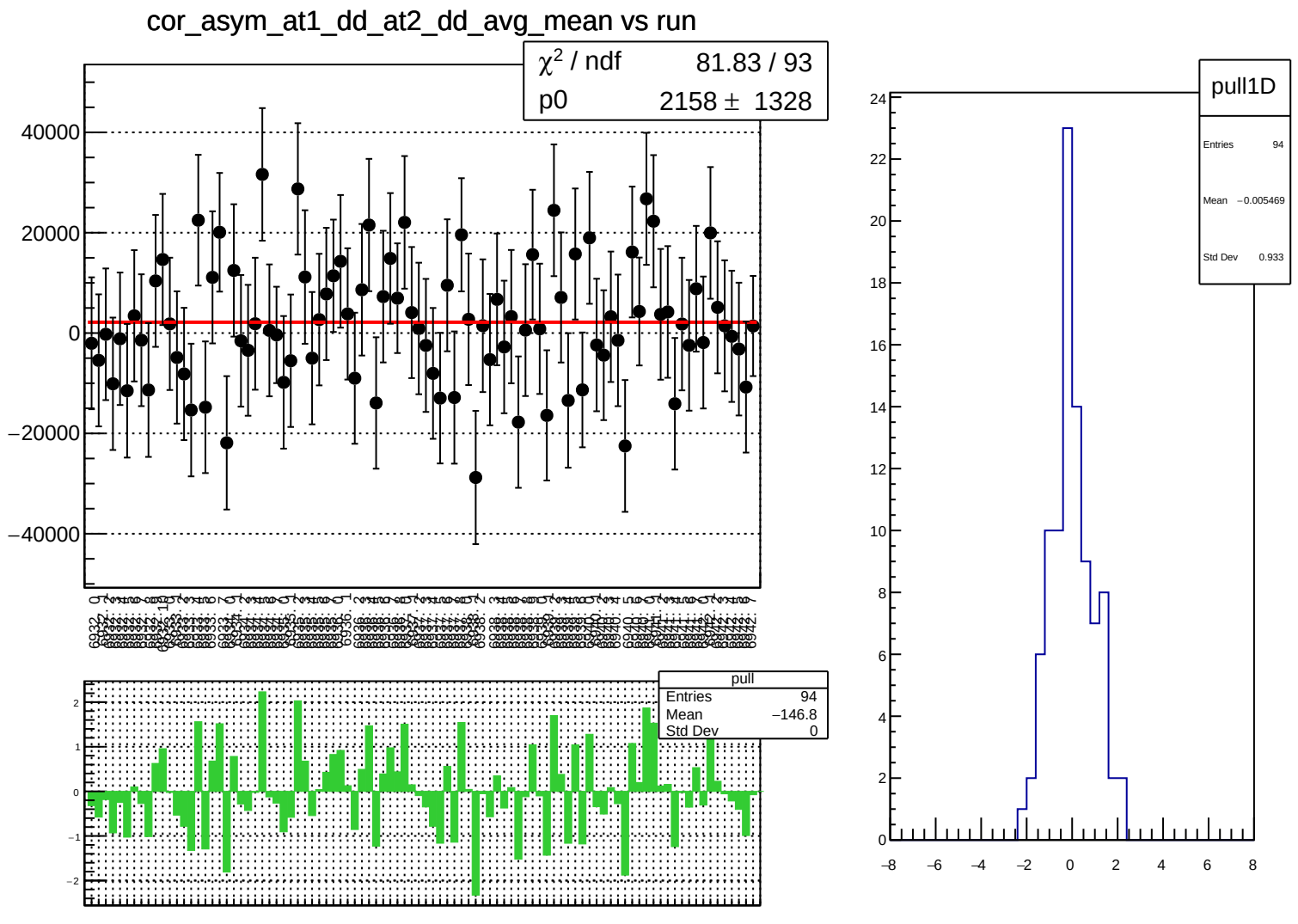

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.411e+05 / 93
p0 7.034e−12 ± 5.897e−15
40
35
30
25
20
15
10
5

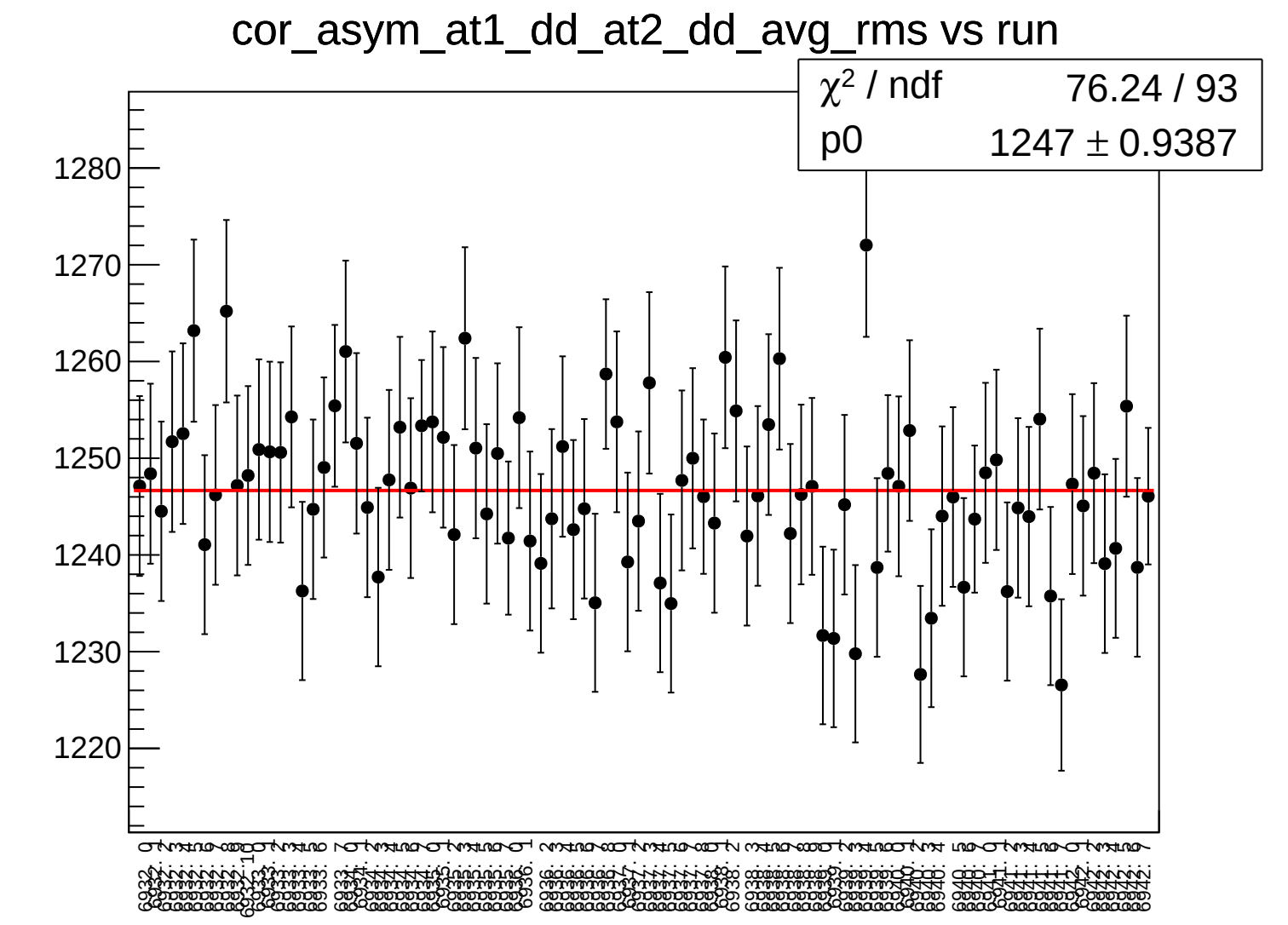

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005471
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

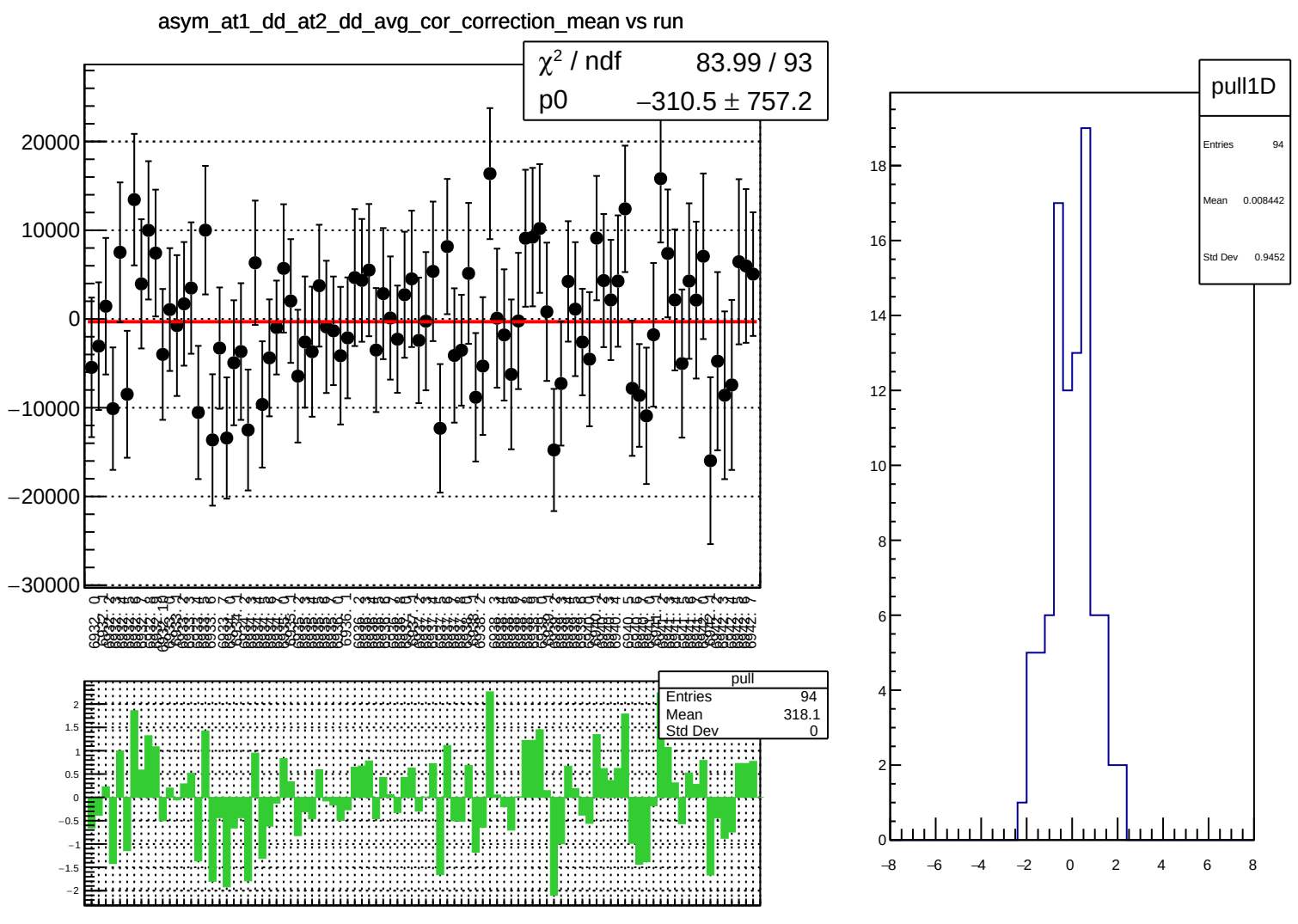

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

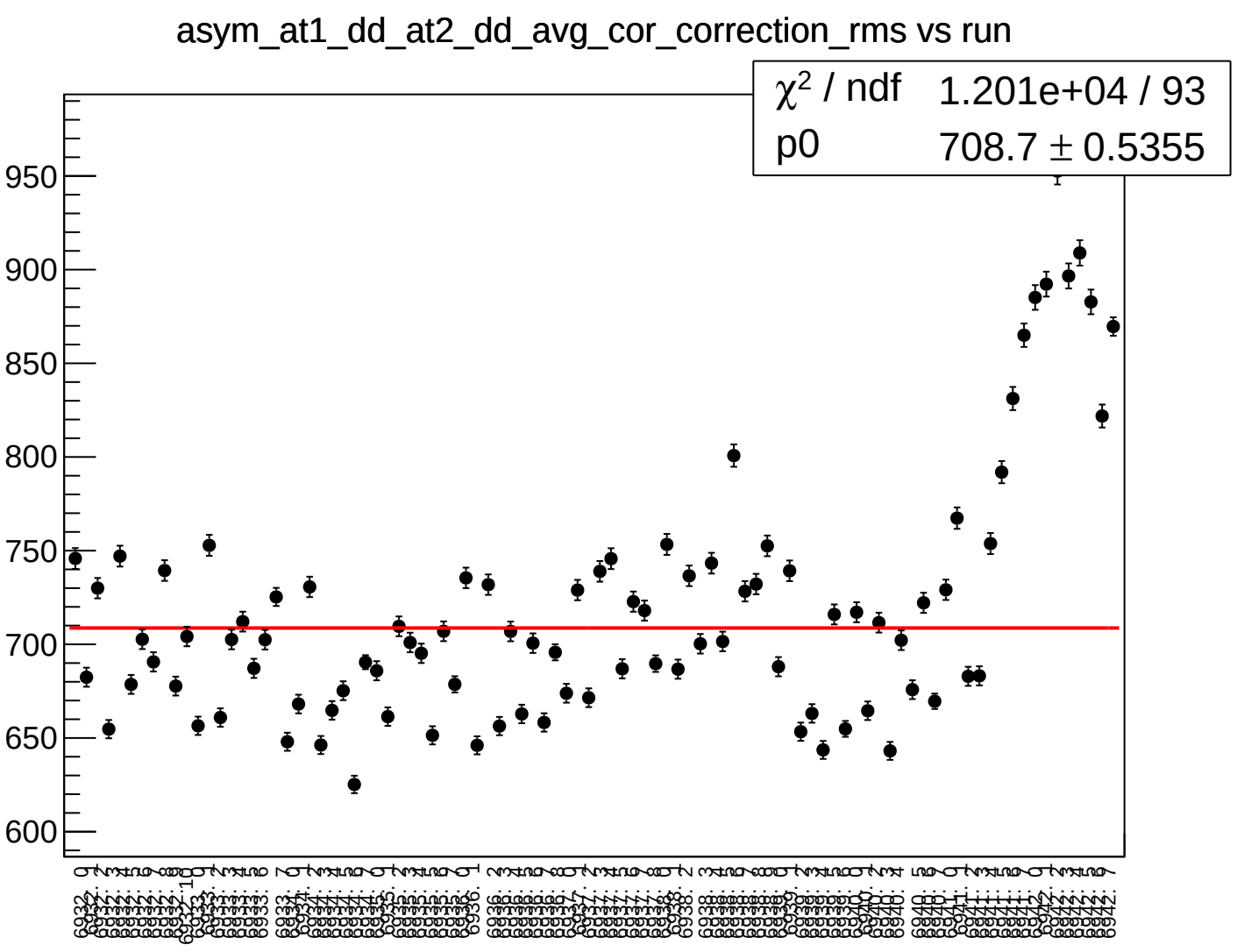

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.3 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008439
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

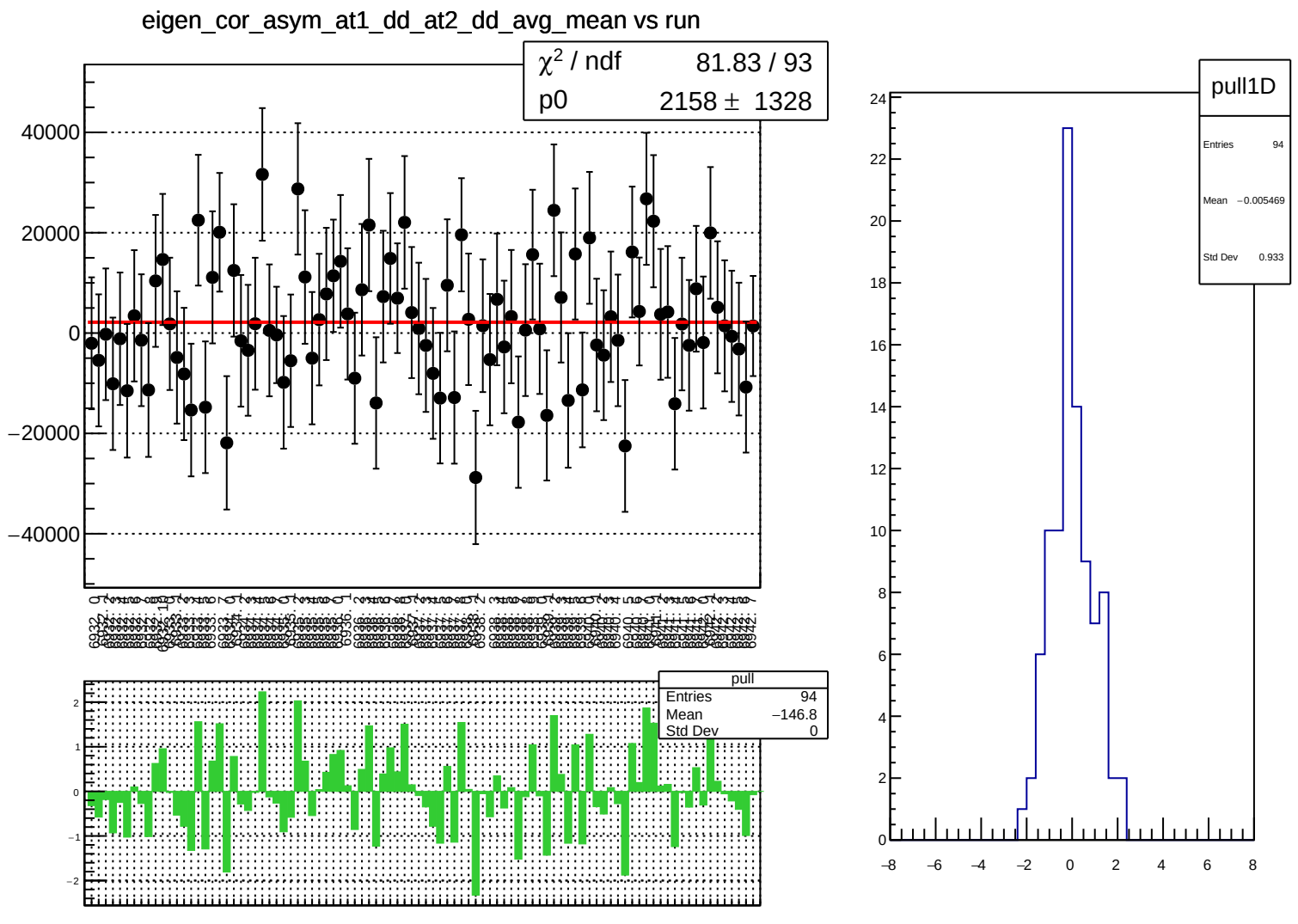

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

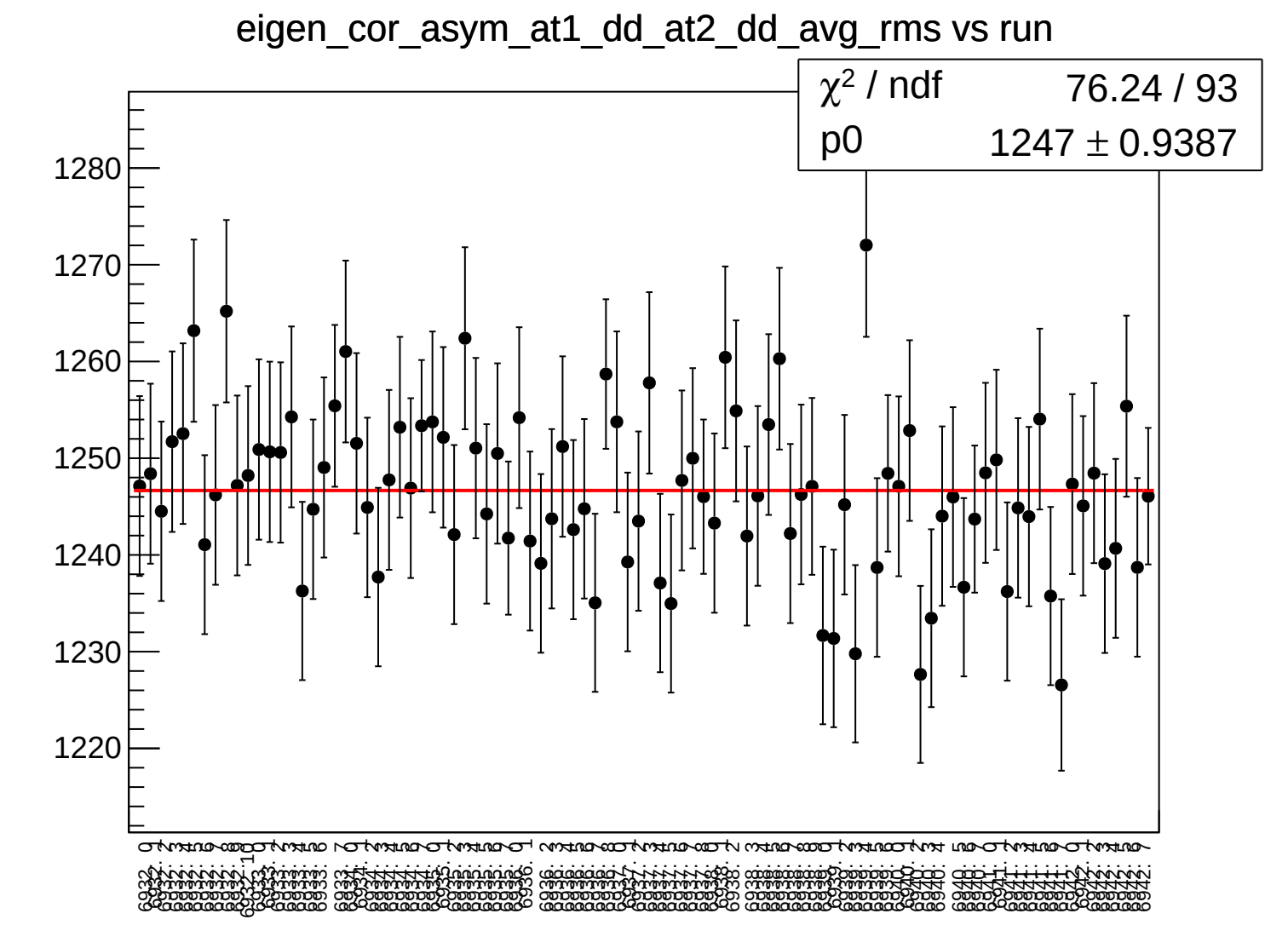

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005469
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

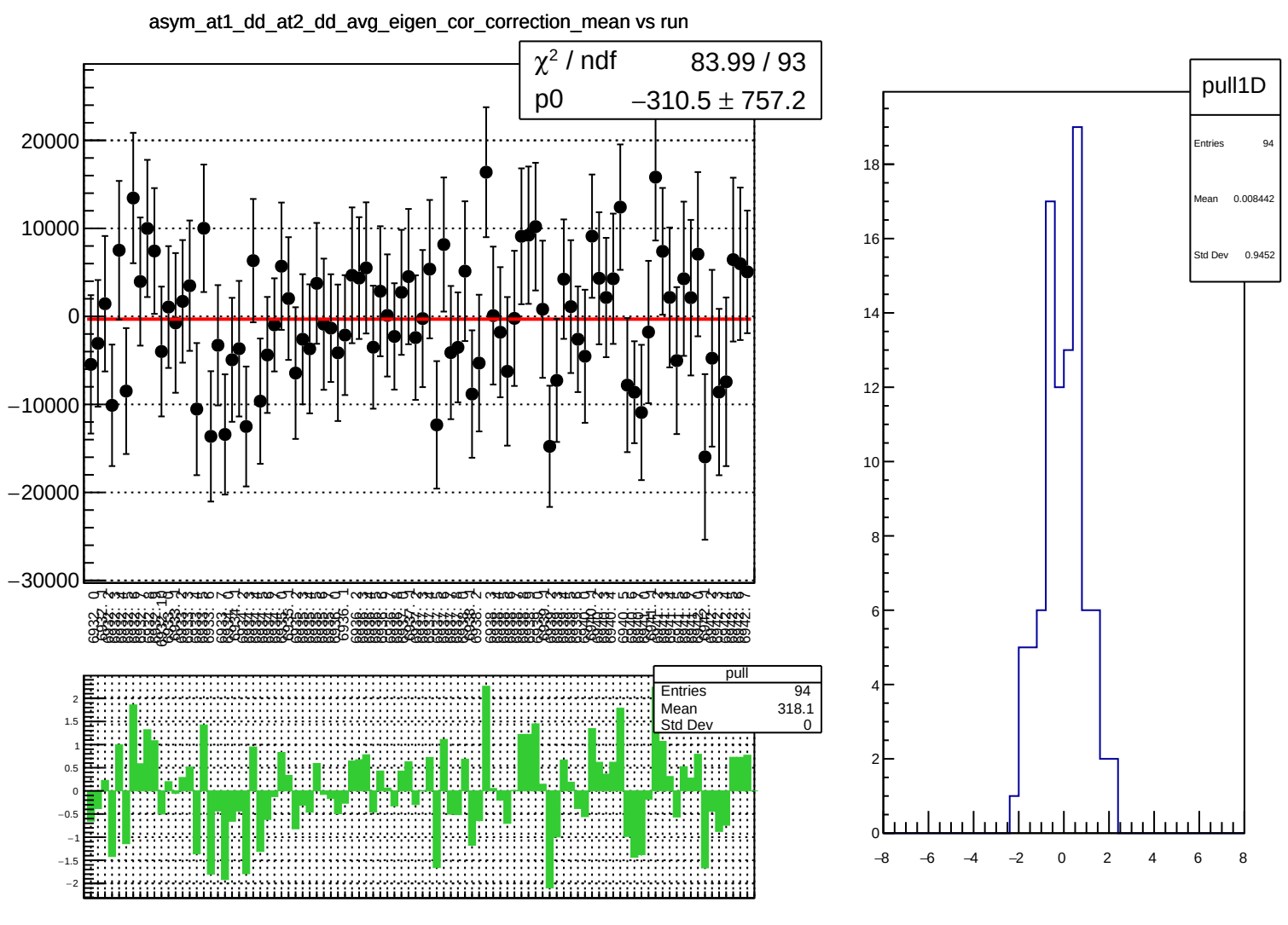

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

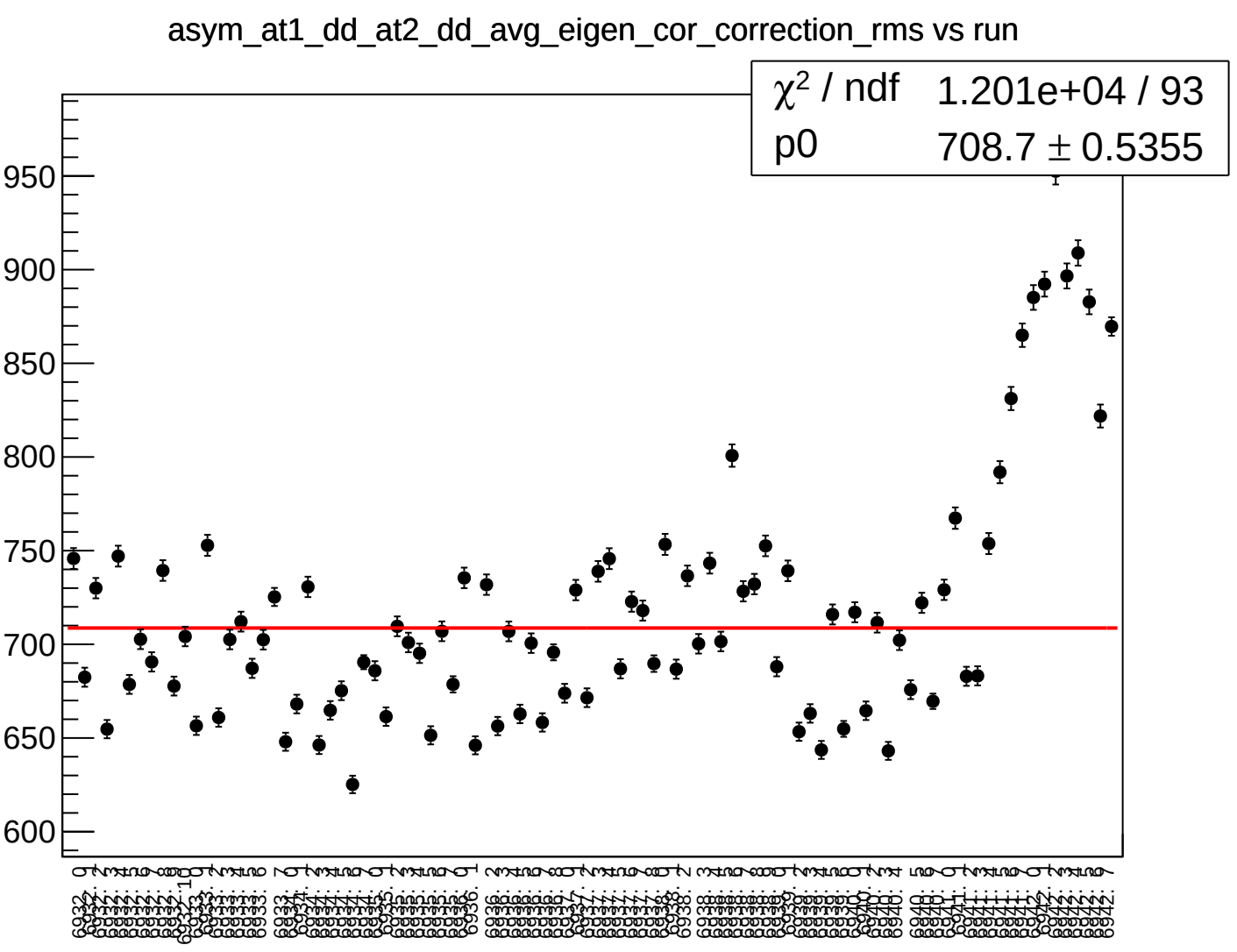

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.5 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008442
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

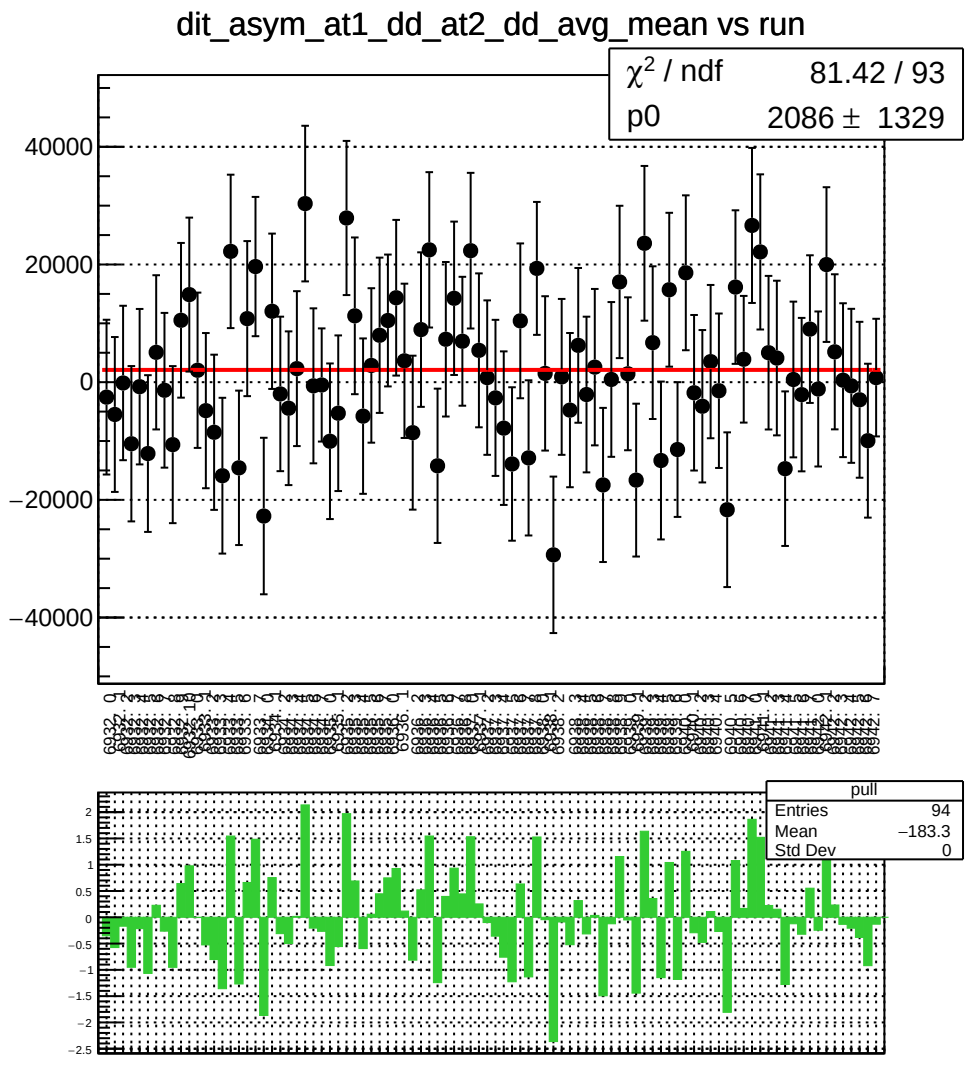

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

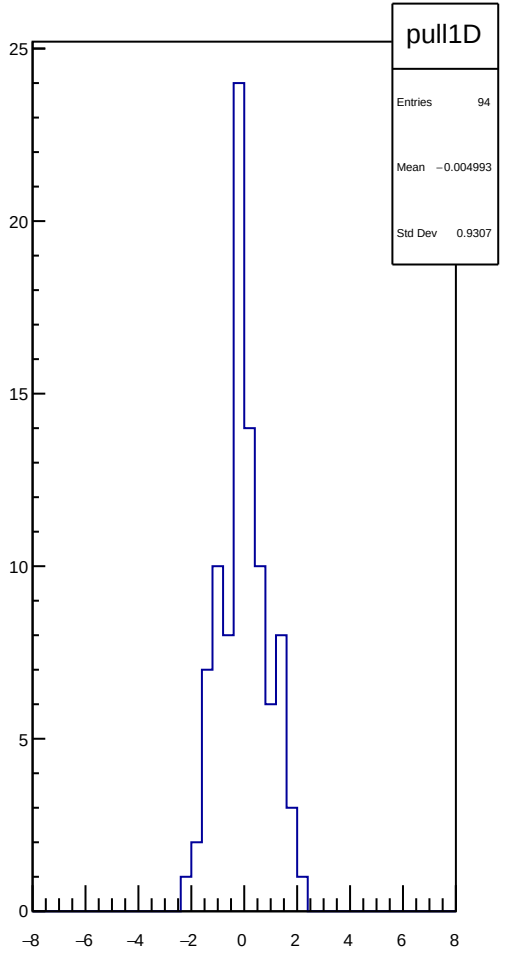

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.83 / 93
p0 2158 ± 1328
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −146.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005469
Std Dev 0.933
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

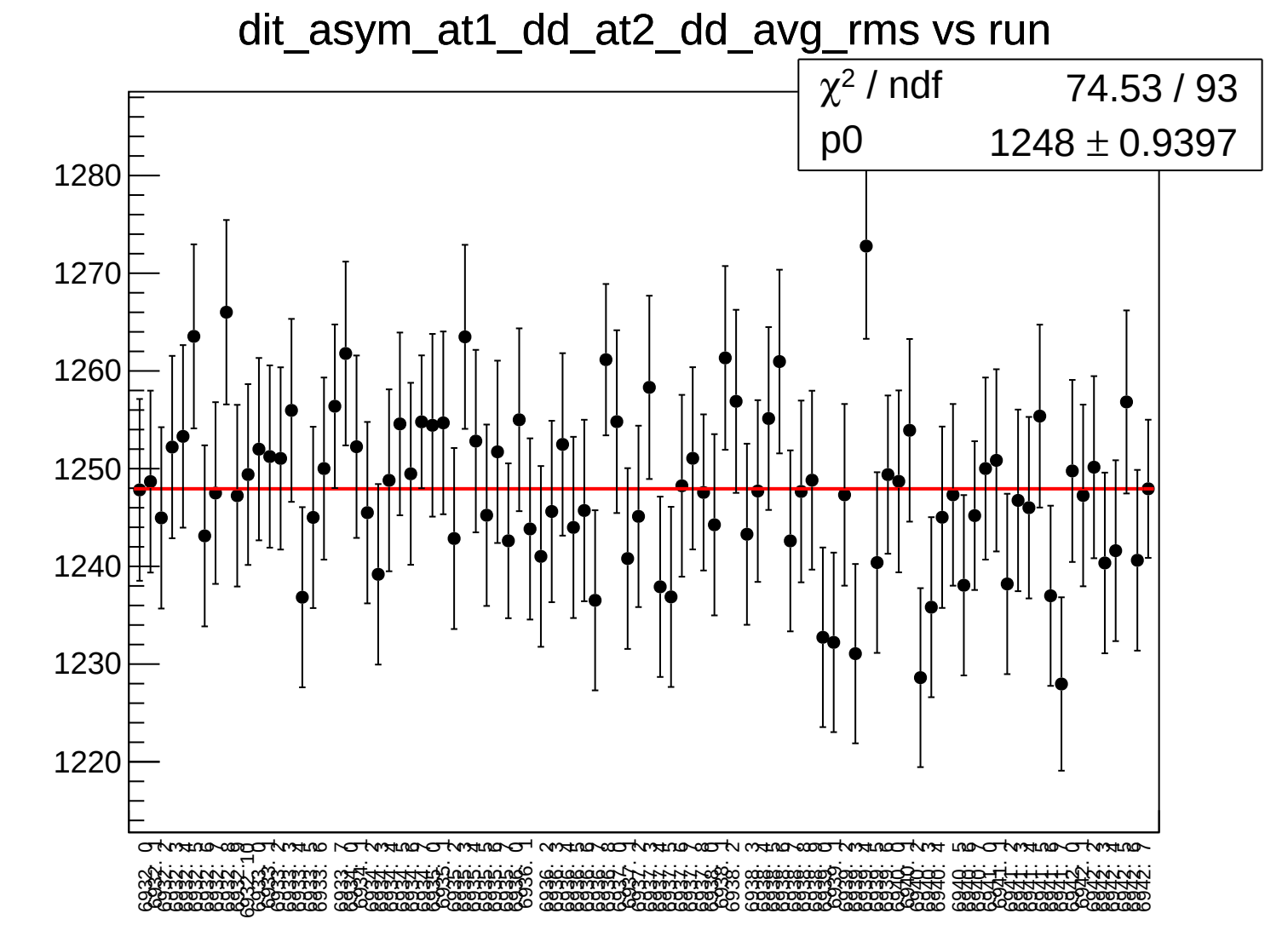

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 76.24 / 93
p0 1247 ± 0.9387
1280
1270
1260
1250
1240
1230
1220

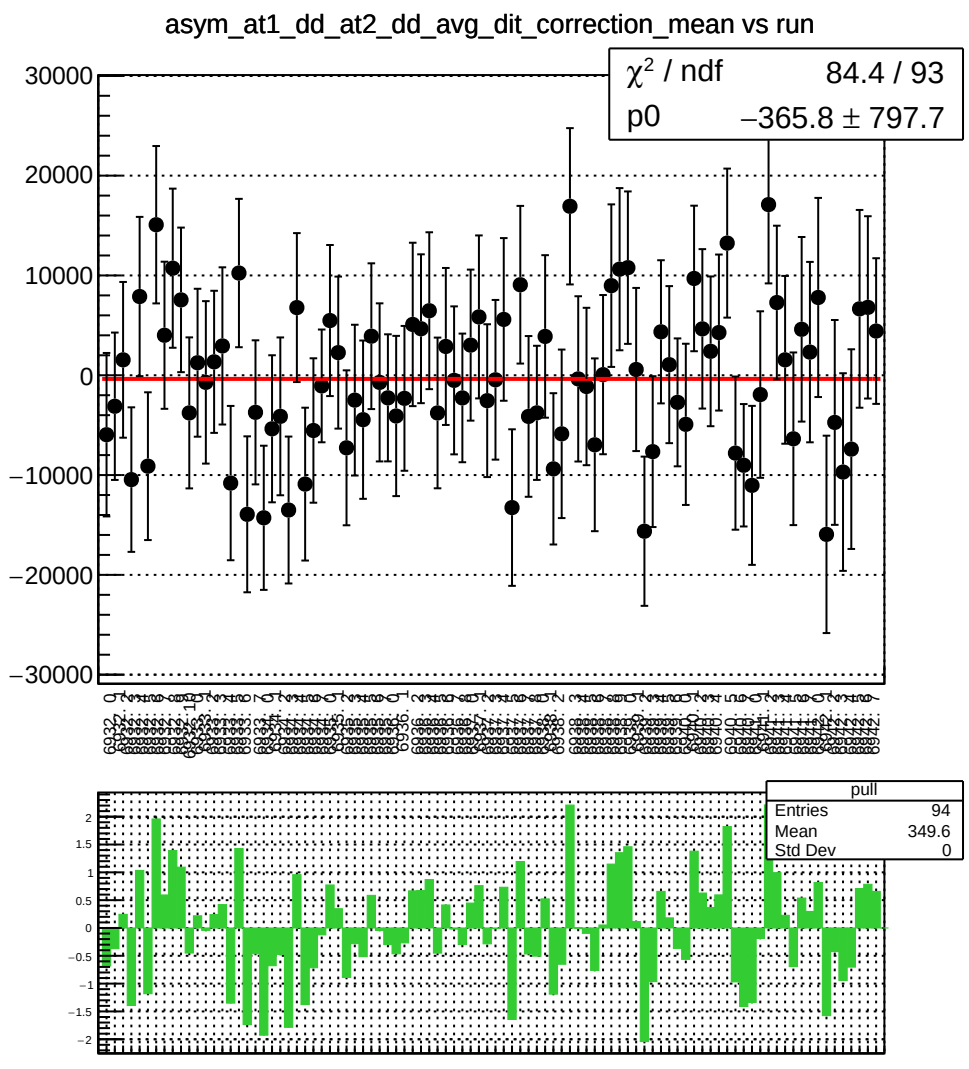

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.99 / 93
p0 −310.5 ± 757.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 318.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008442
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

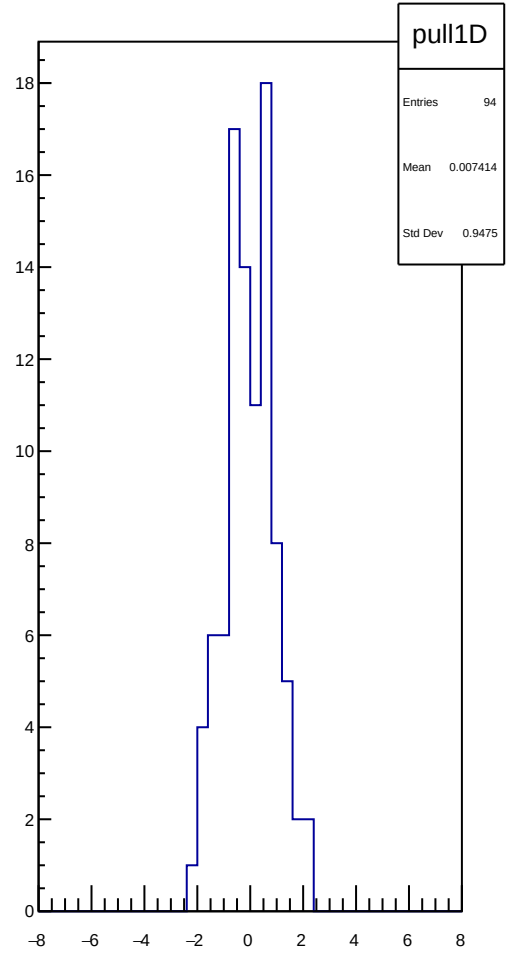

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.201e+04 / 93
p0 708.7 ± 0.5355
950
900
850
800
750
700
650
600

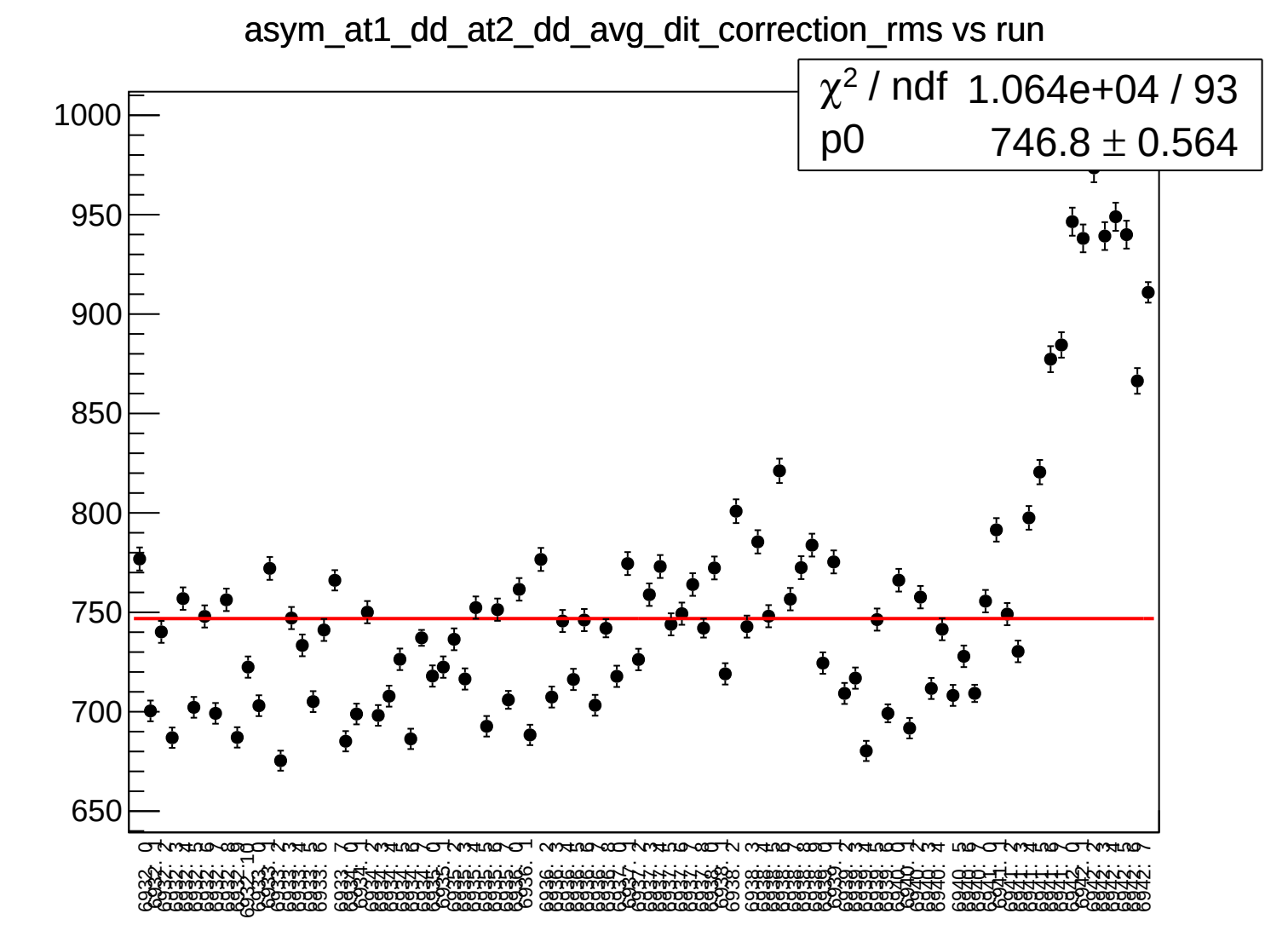

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.42 / 93
p0 2086 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −183.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

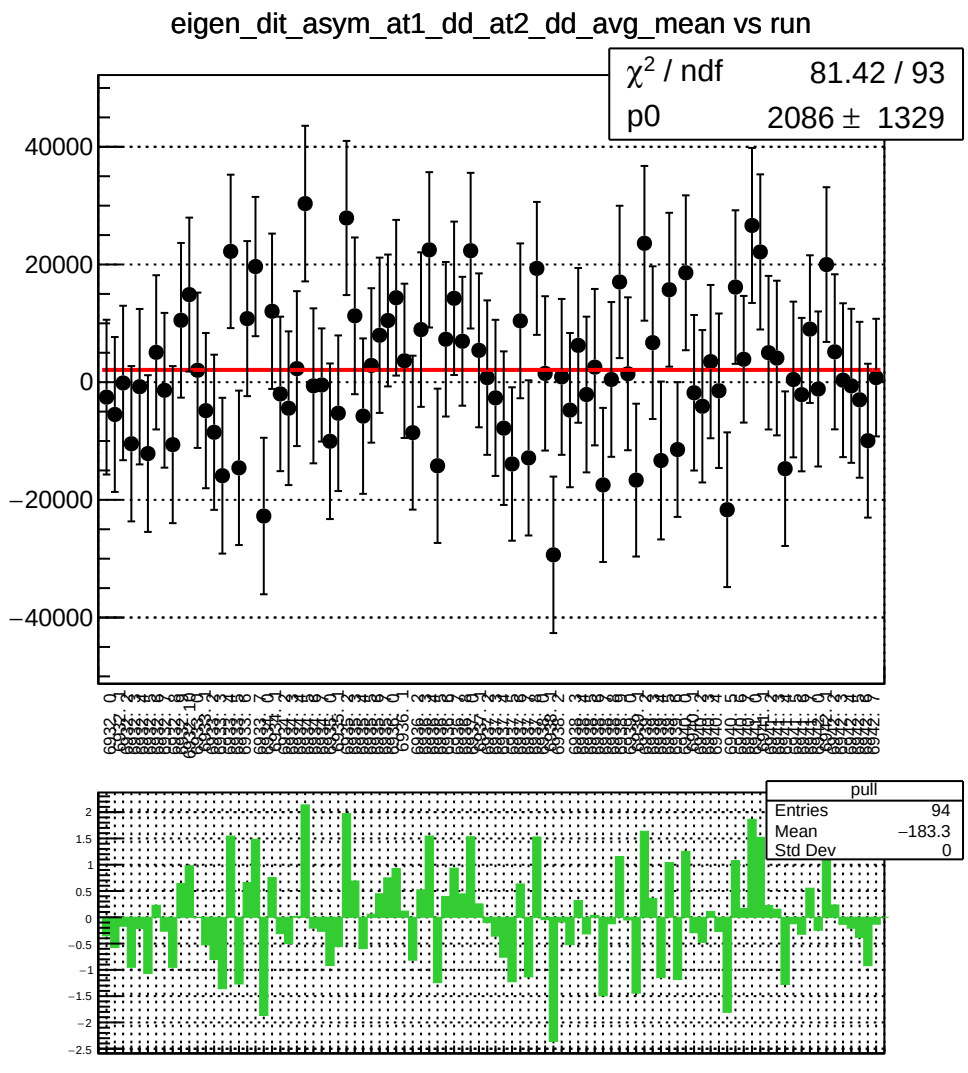

pull1D
Entries 94
Mean −0.004993
Std Dev 0.9307
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

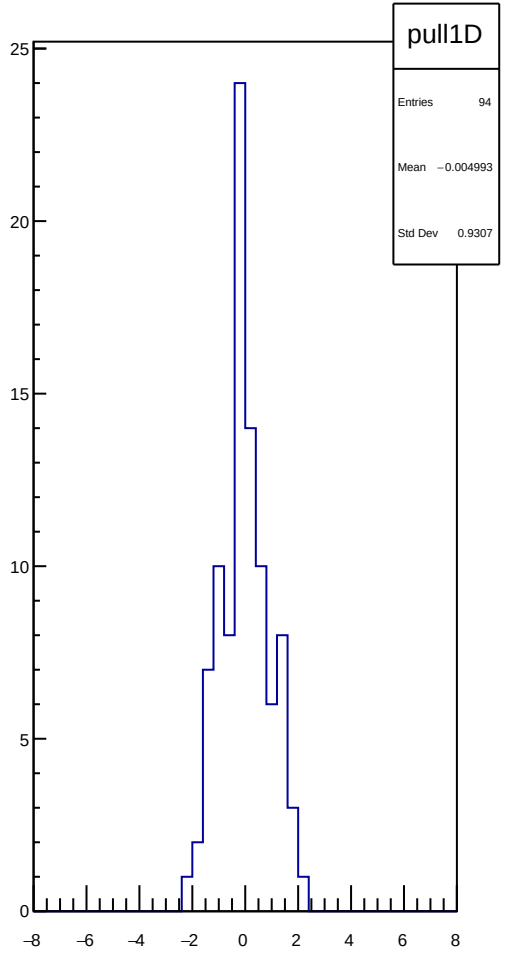

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 74.53 / 93
p0 1248 ± 0.9397
1280
1270
1260
1250
1240
1230
1220

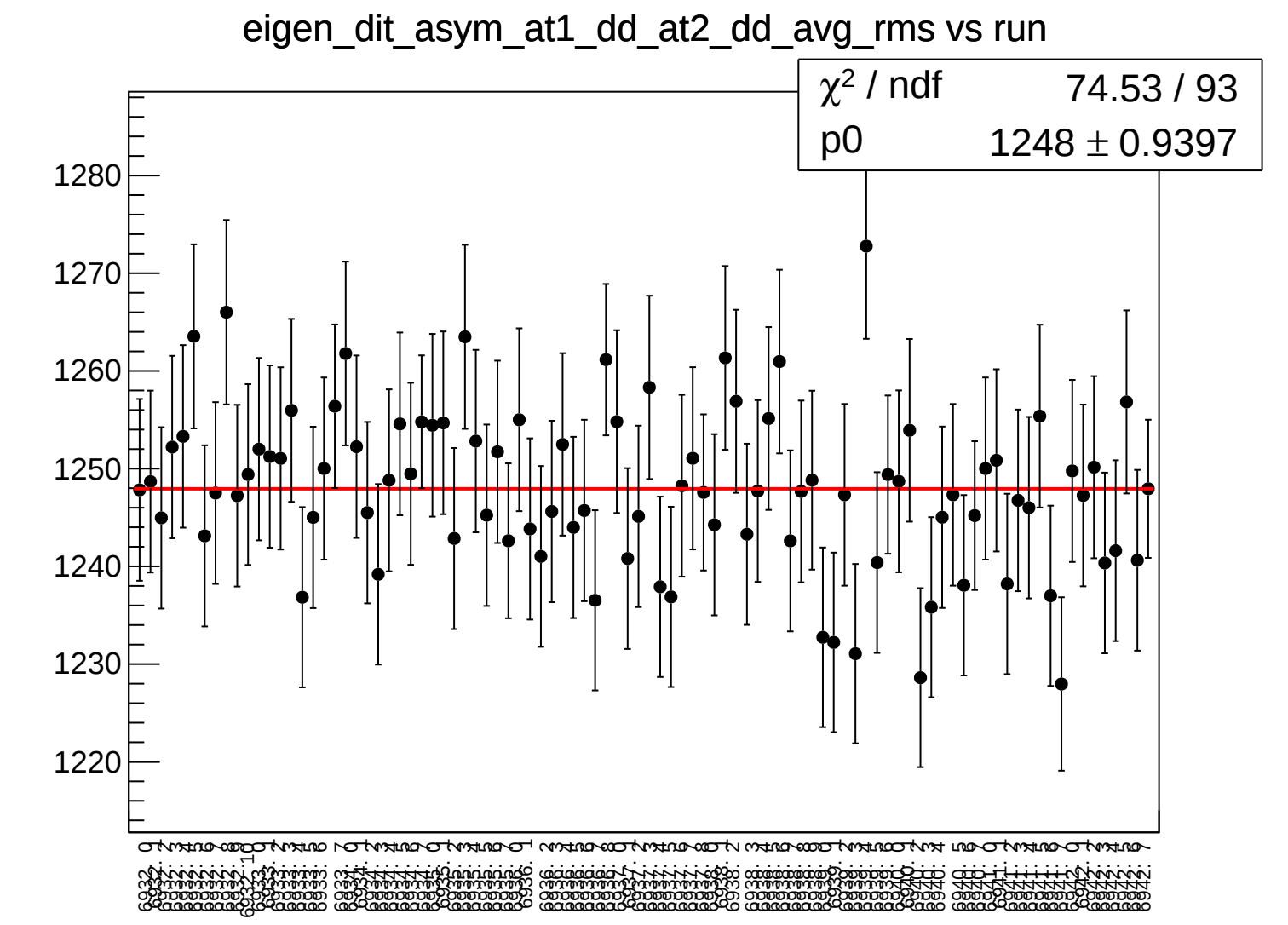

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 84.4 / 93
p0 −365.8 ± 797.7
pull
Entries 94
Mean 349.6
Std Dev 0

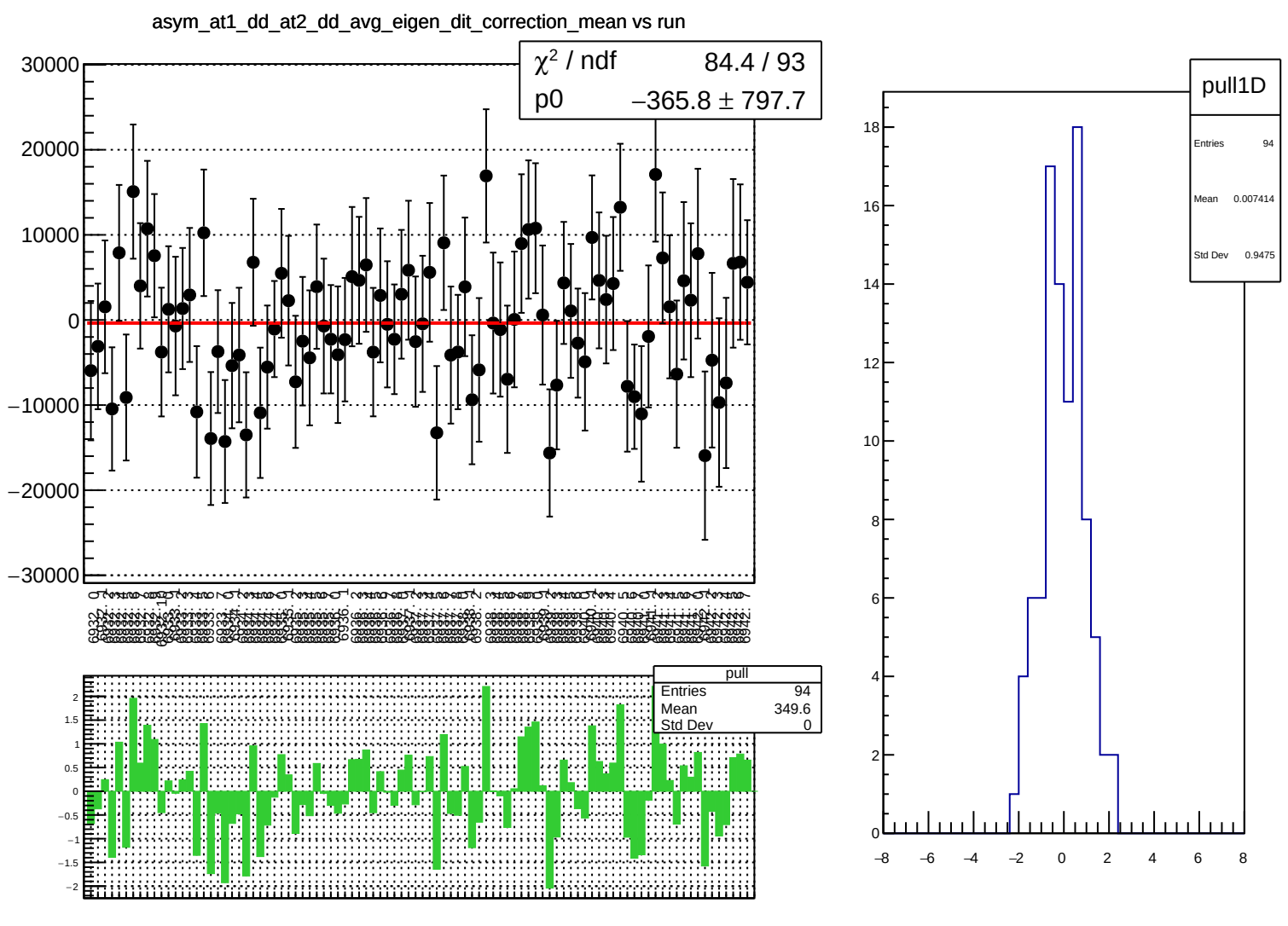

pull1D
Entries 94
Mean 0.007414
Std Dev 0.9475

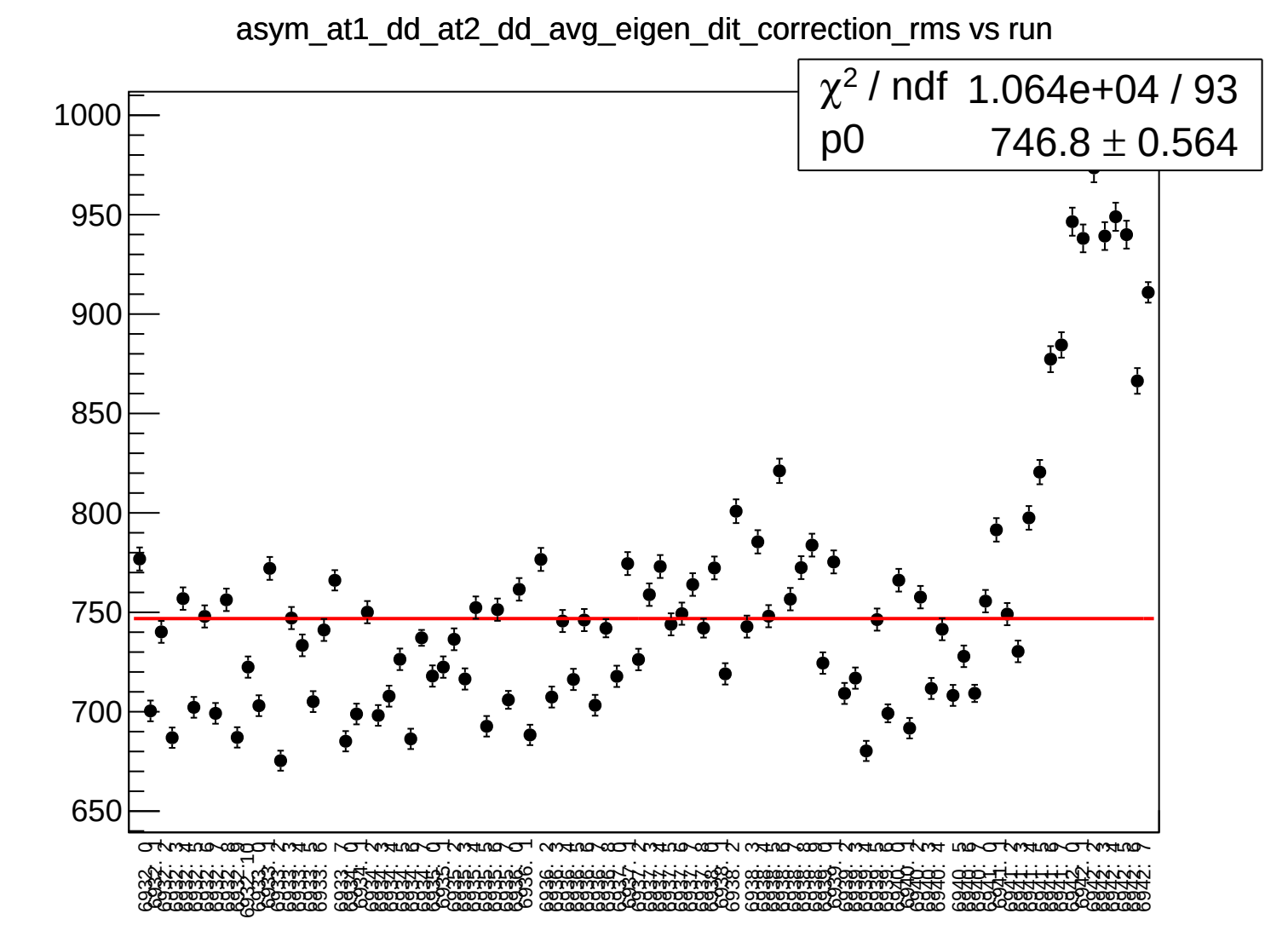

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 1.064e+04 / 93
p0 746.8 ± 0.564
1000
950
900
850
800
750
700
650

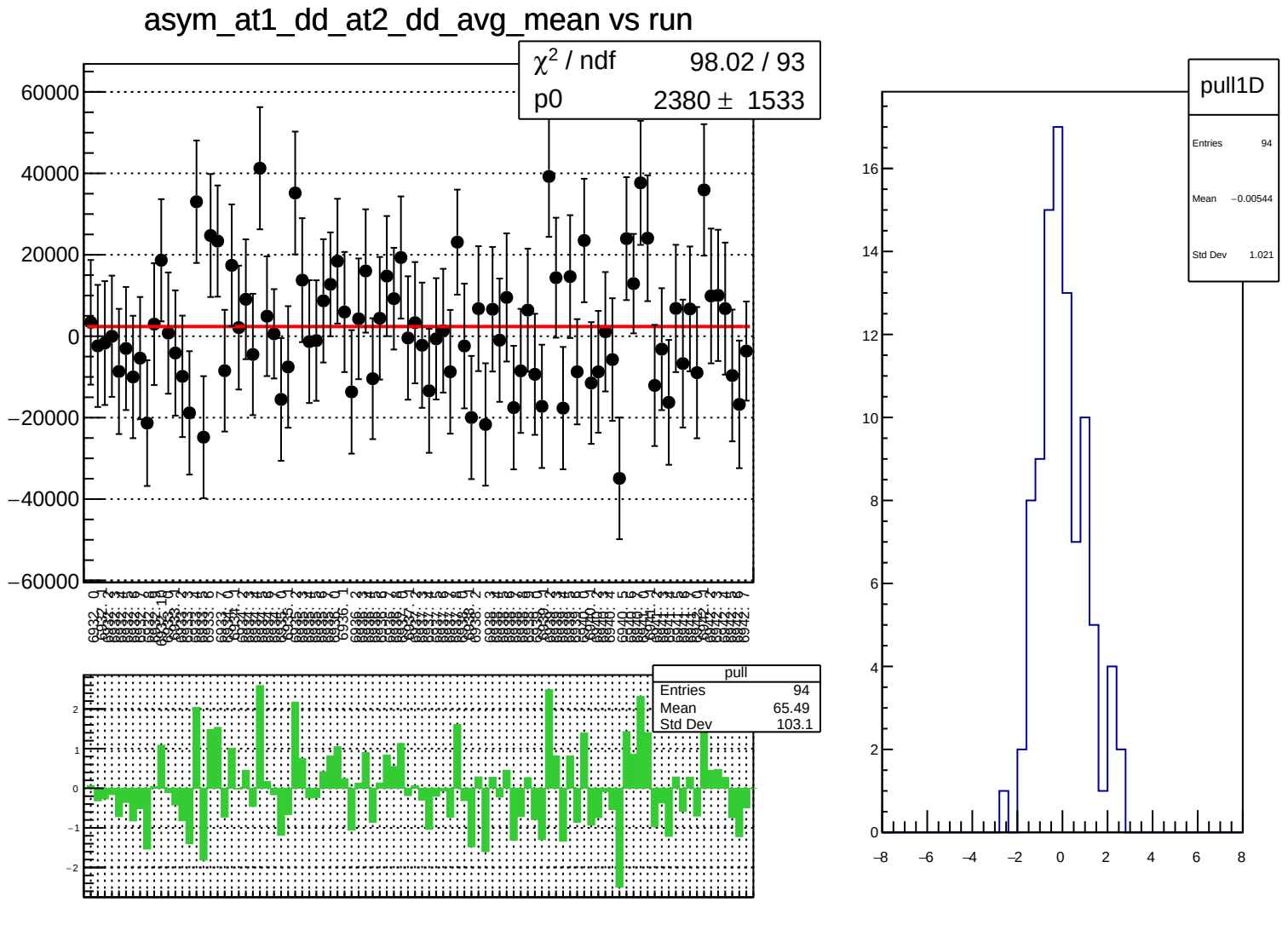

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.42 / 93
p0 2086 ± 1329
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −183.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

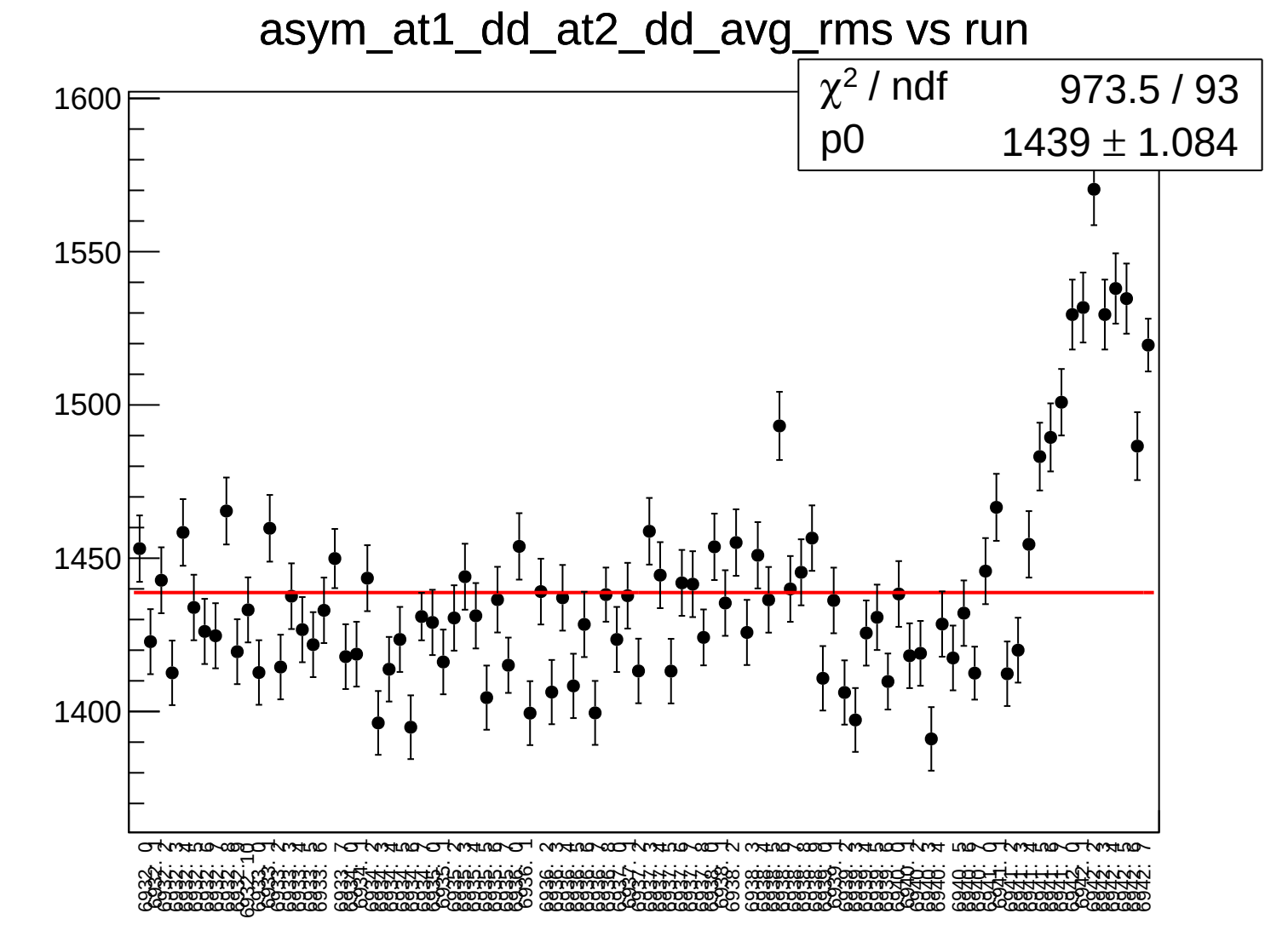

pull1D
Entries 94
Mean −0.004993
Std Dev 0.9307
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

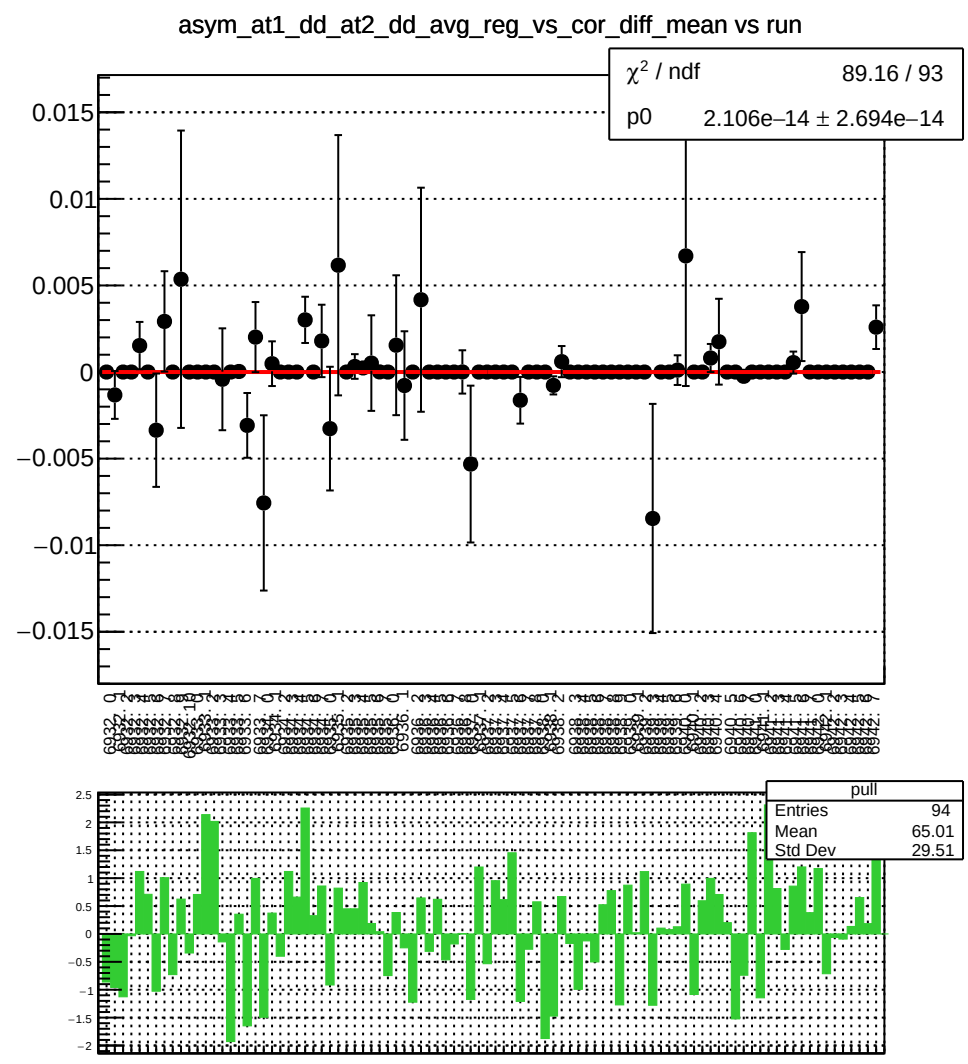

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 74.53 / 93
p0 1248 ± 0.9397
1280
1270
1260
1250
1240
1230
1220

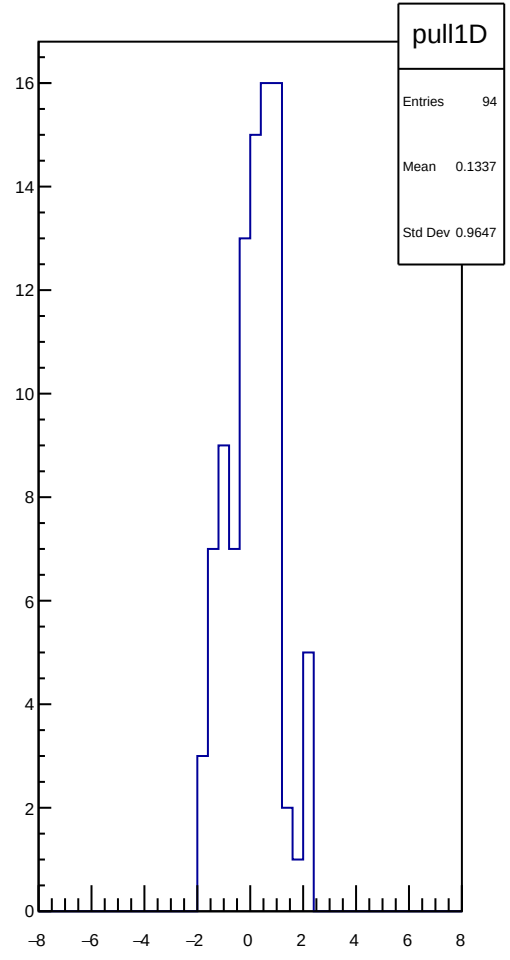

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.4 / 93
p0 −365.8 ± 797.7
pull
Entries 94
Mean 349.6
Std Dev 0
pull1D
Entries 94
Mean 0.007414
Std Dev 0.9475

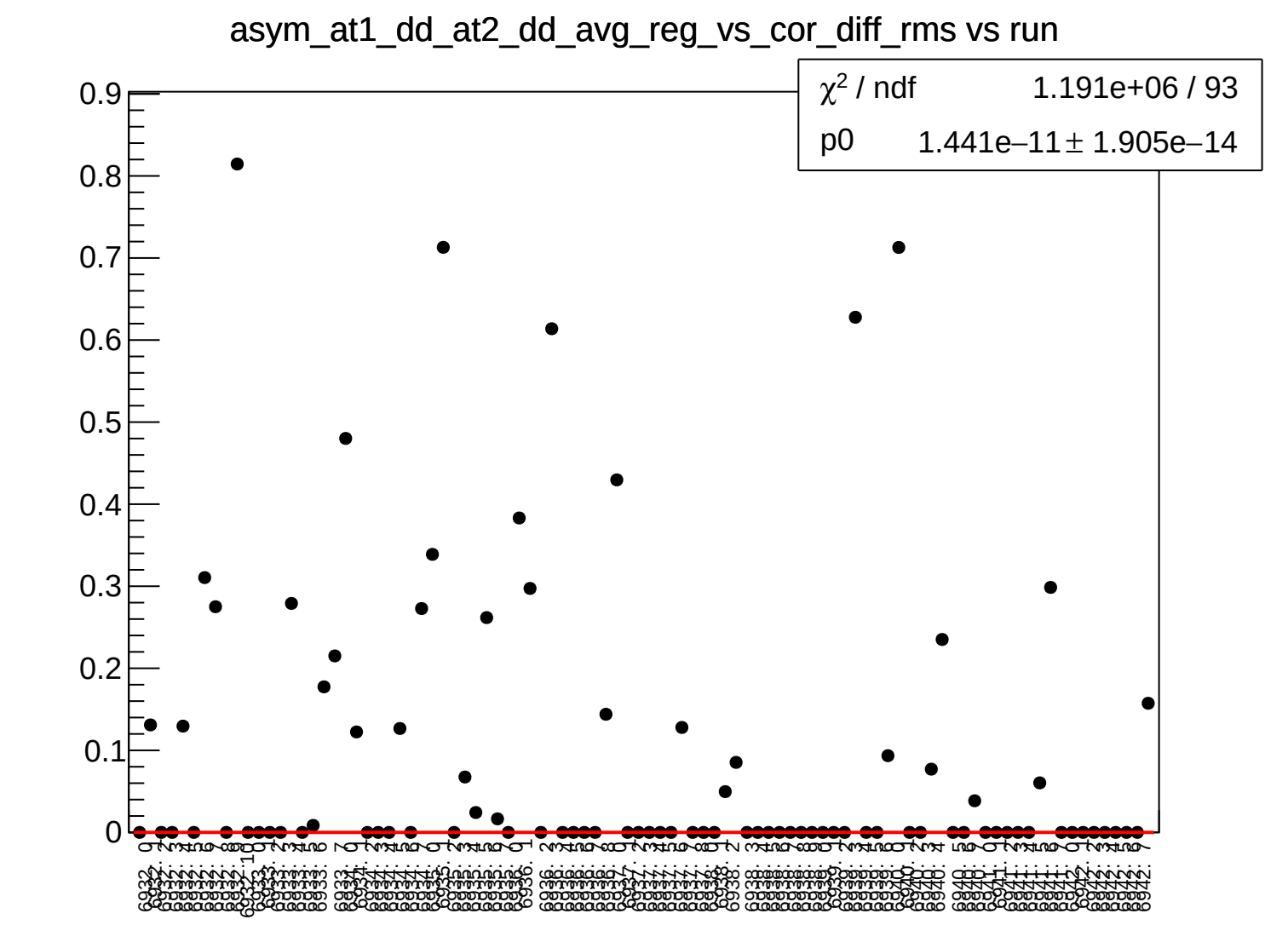

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.064e+04 / 93
p0 746.8 ± 0.564
1000
950
900
850
800
750
700
650

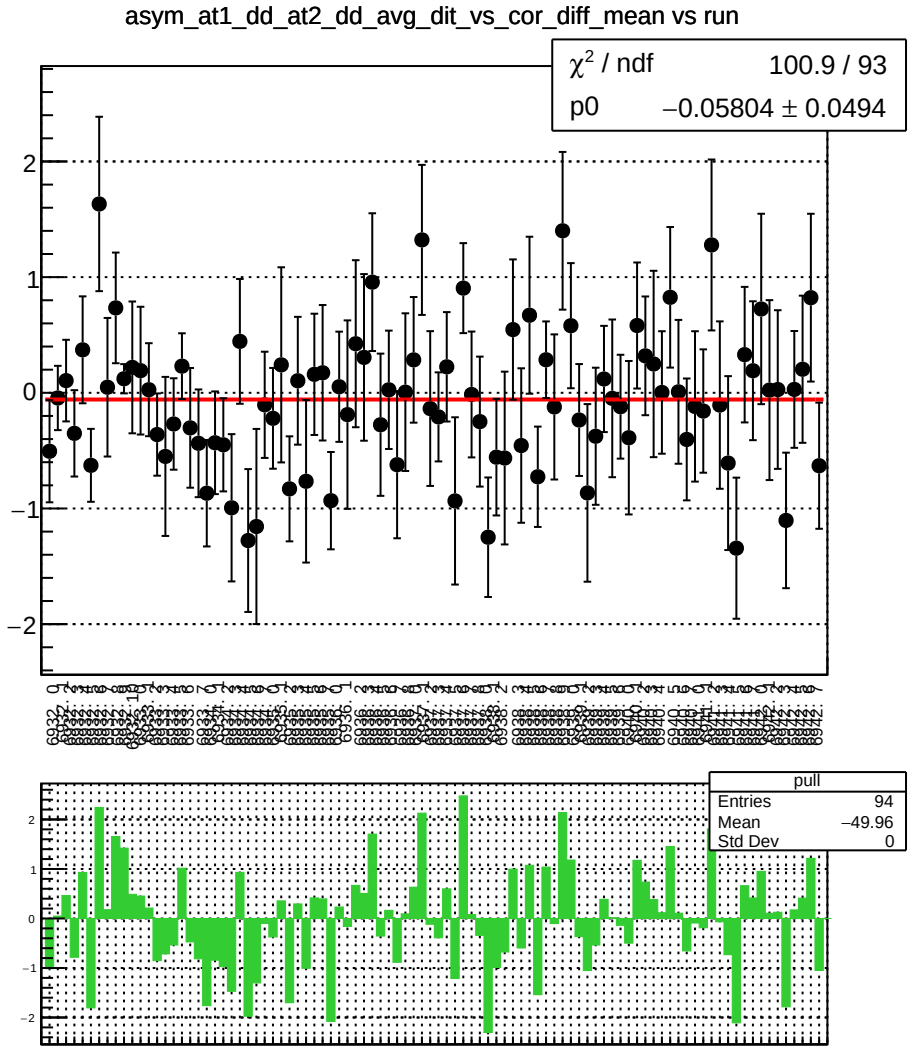

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 98.02 / 93
p0 2380 ± 1533
pull
Entries 94
Mean 65.49
Std Dev 103.1
pull1D
Entries 94
Mean −0.00544
Std Dev 1.021

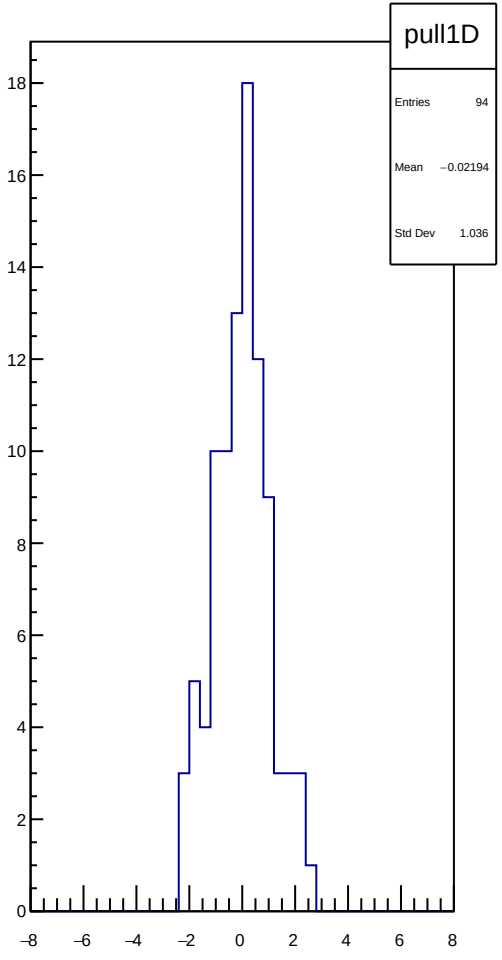

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 973.5 / 93
p0 1439 ± 1.084
1600
1550
1500
1450
1400

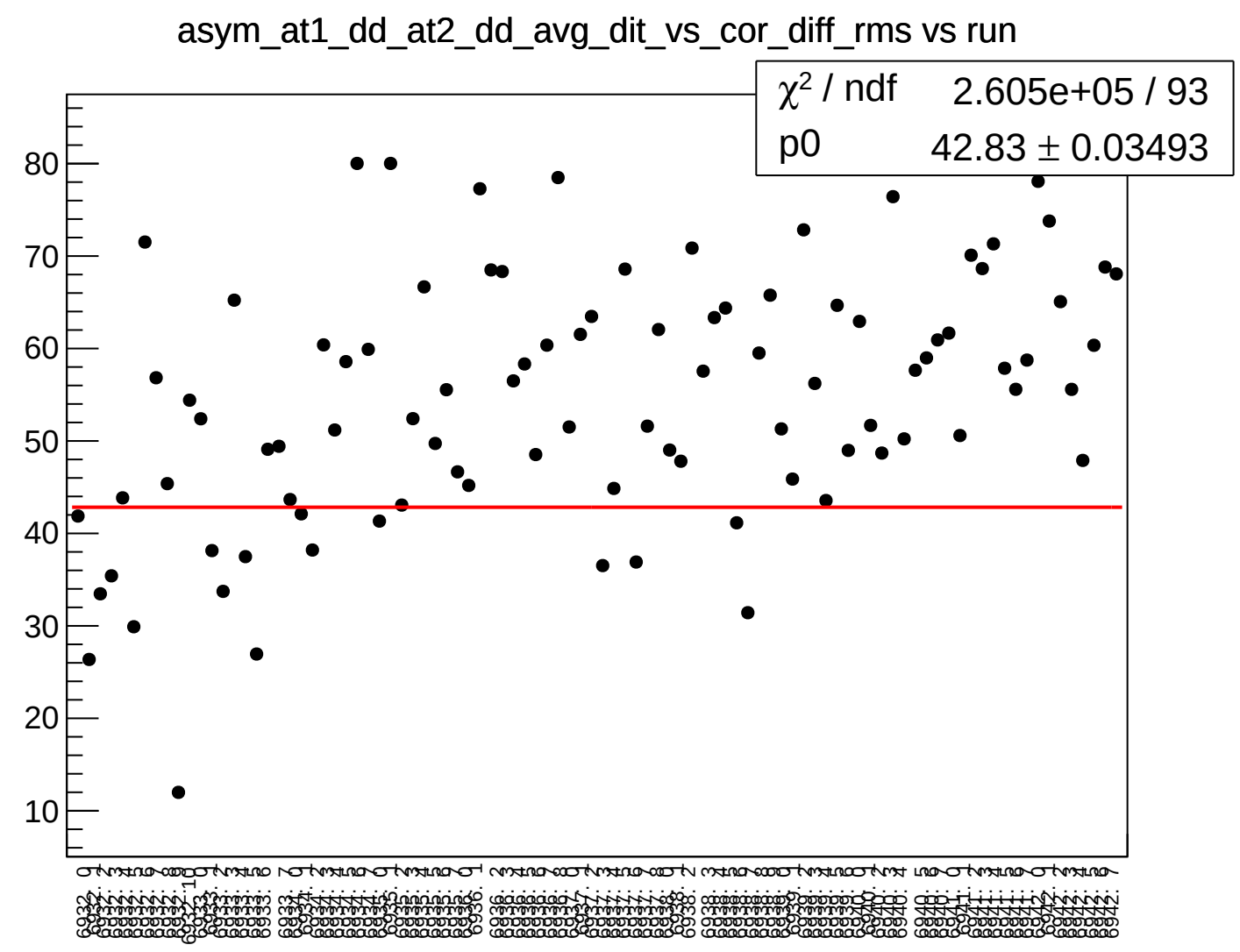

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.16 / 93
p0 2.106e−14 ± 2.694e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 65.01
Std Dev 29.51
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

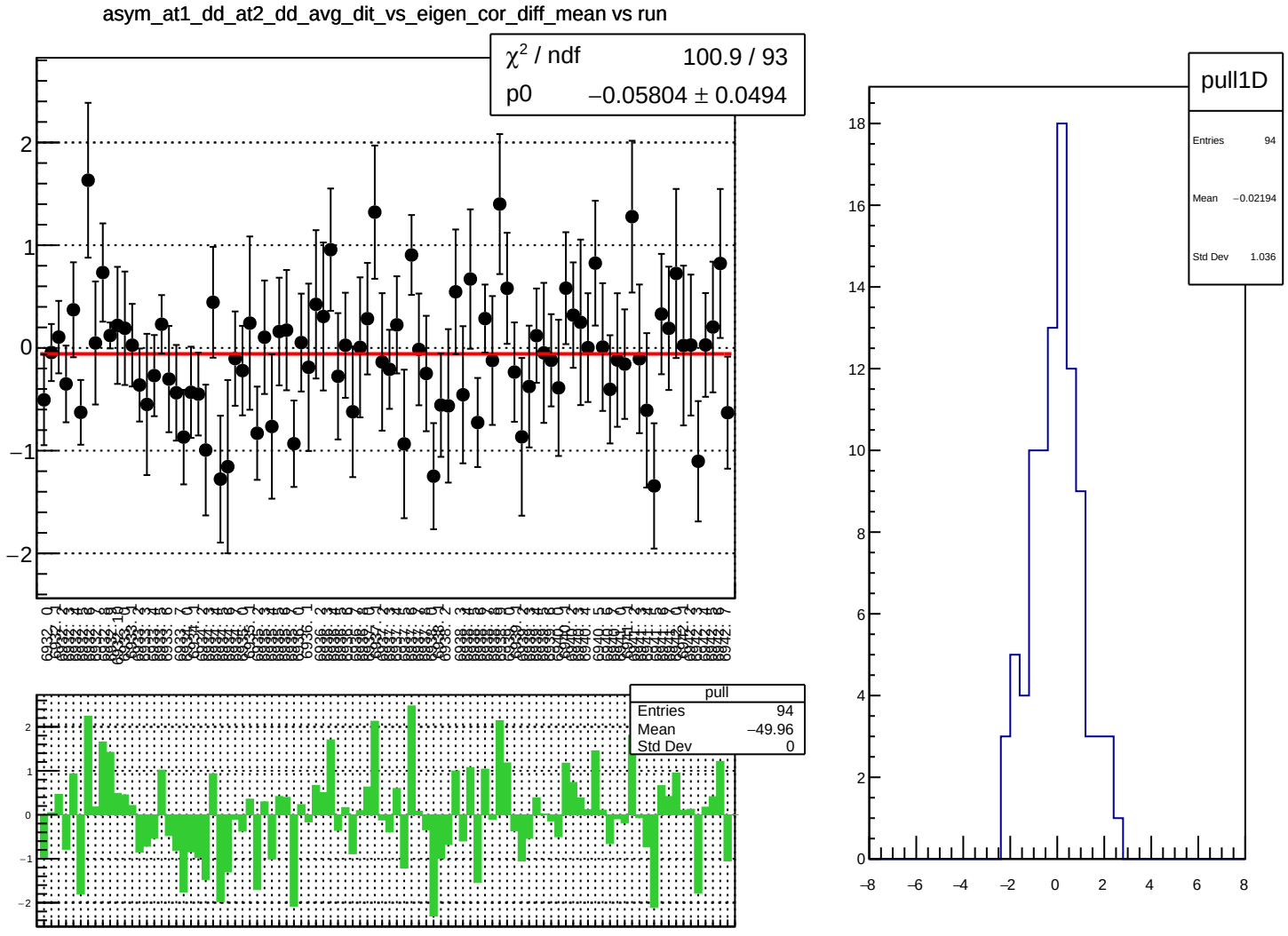

pull1D
Entries 94
Mean 0.1337
Std Dev 0.9647
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

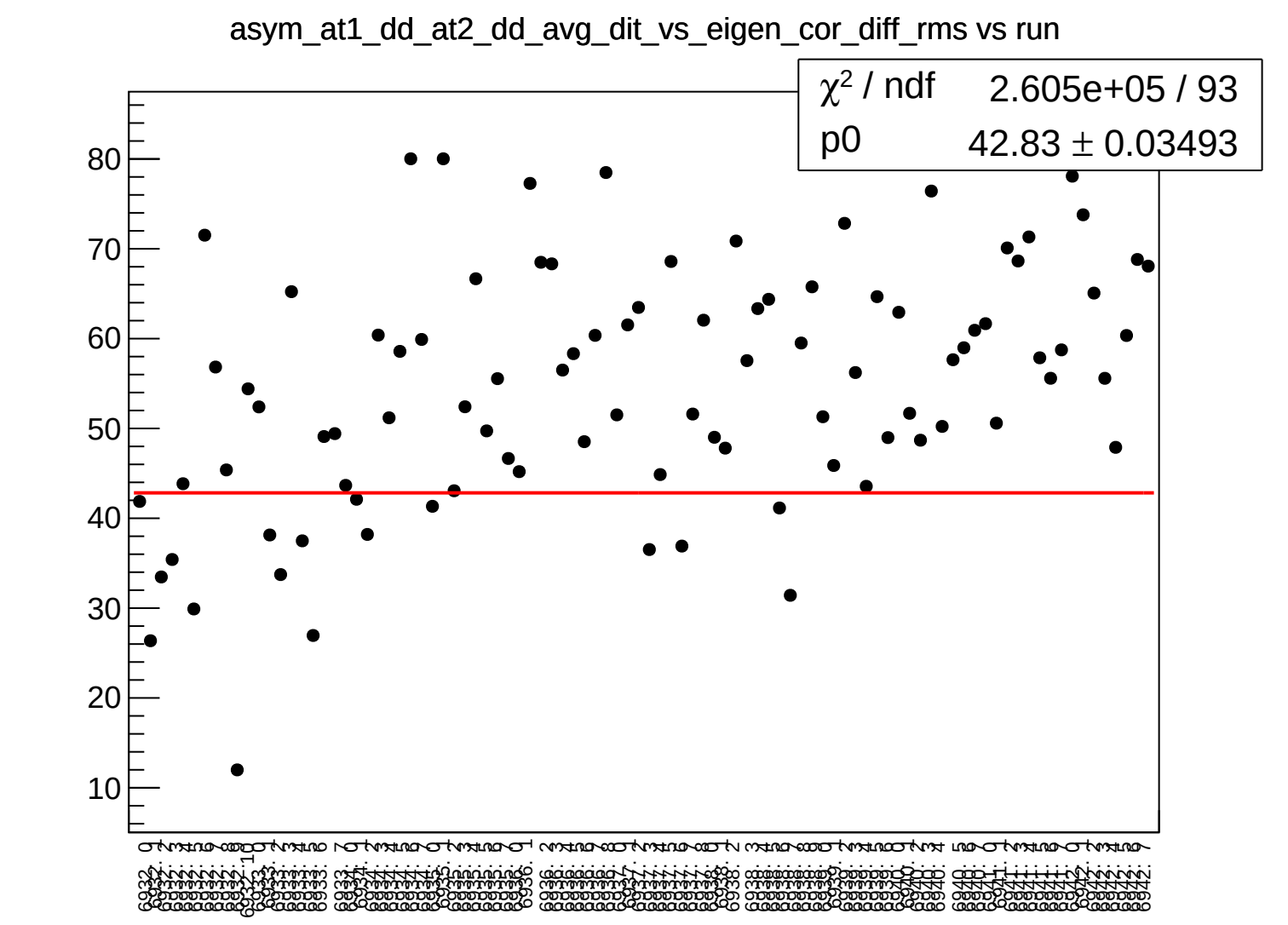

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.191e+06 / 93
p0 1.441e−11 ± 1.905e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

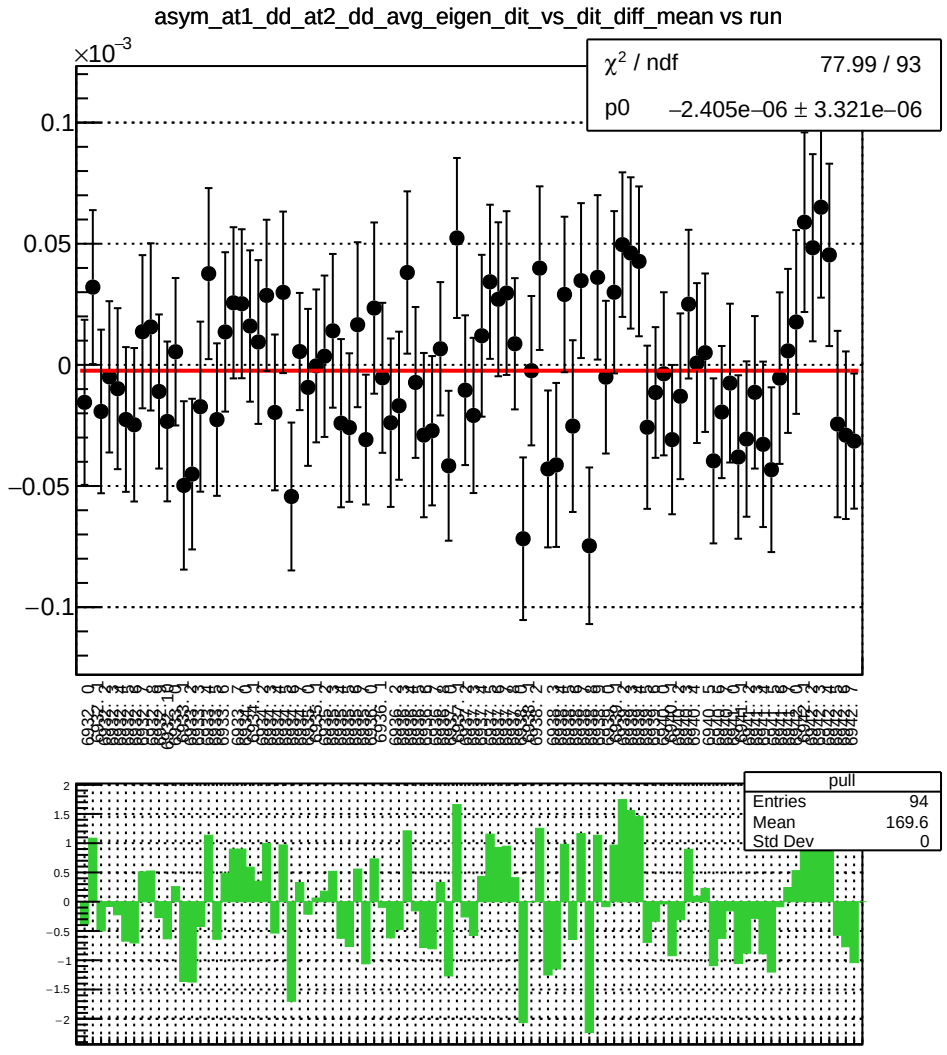

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05804 ± 0.0494
pull
Entries 94
Mean −49.96
Std Dev 0

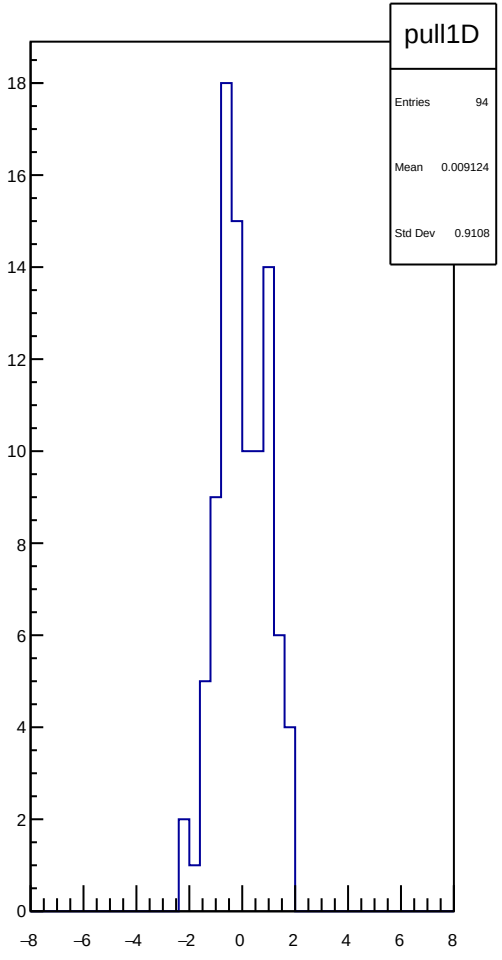

pull1D
Entries 94
Mean −0.02194
Std Dev 1.036

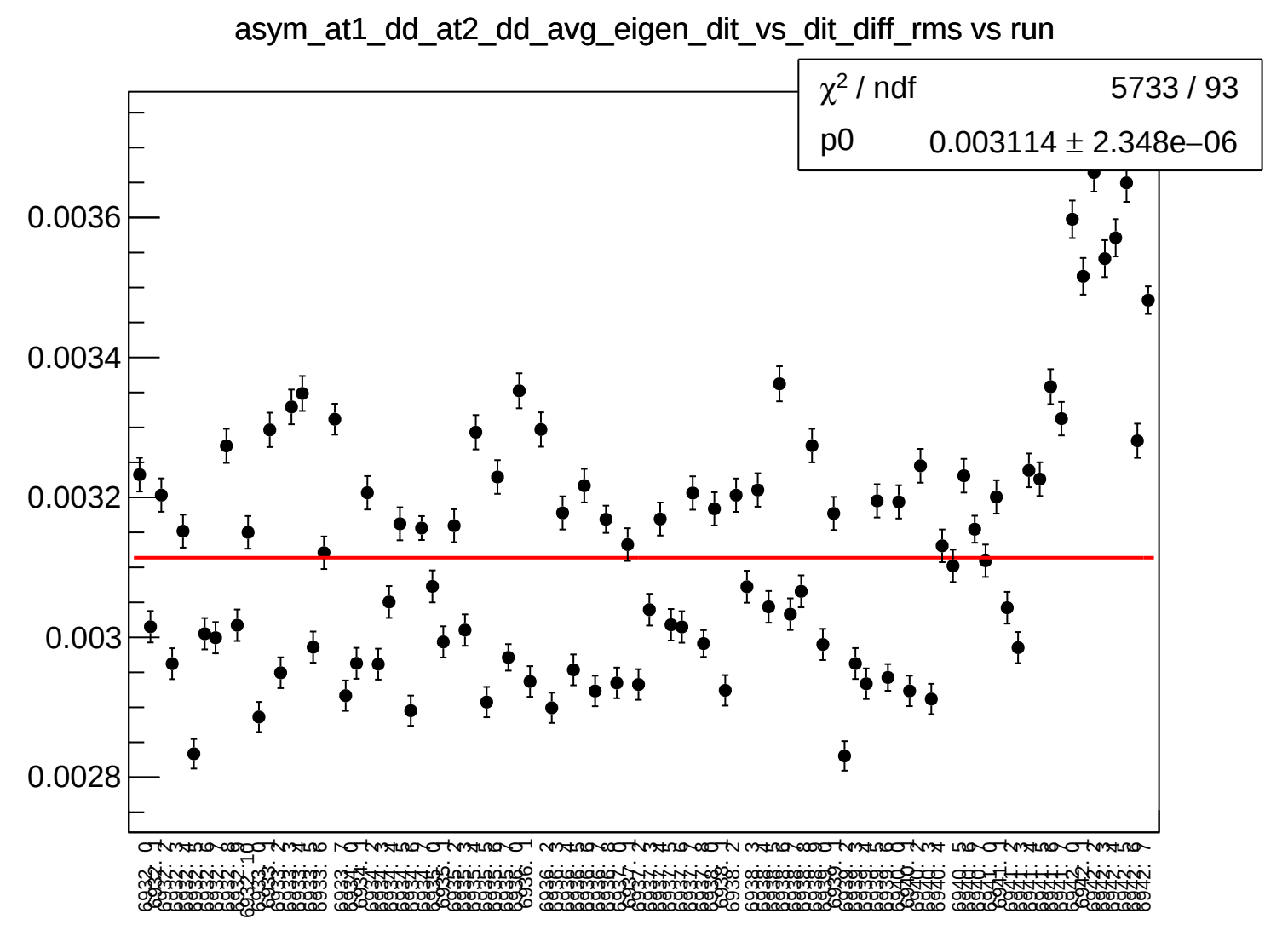

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

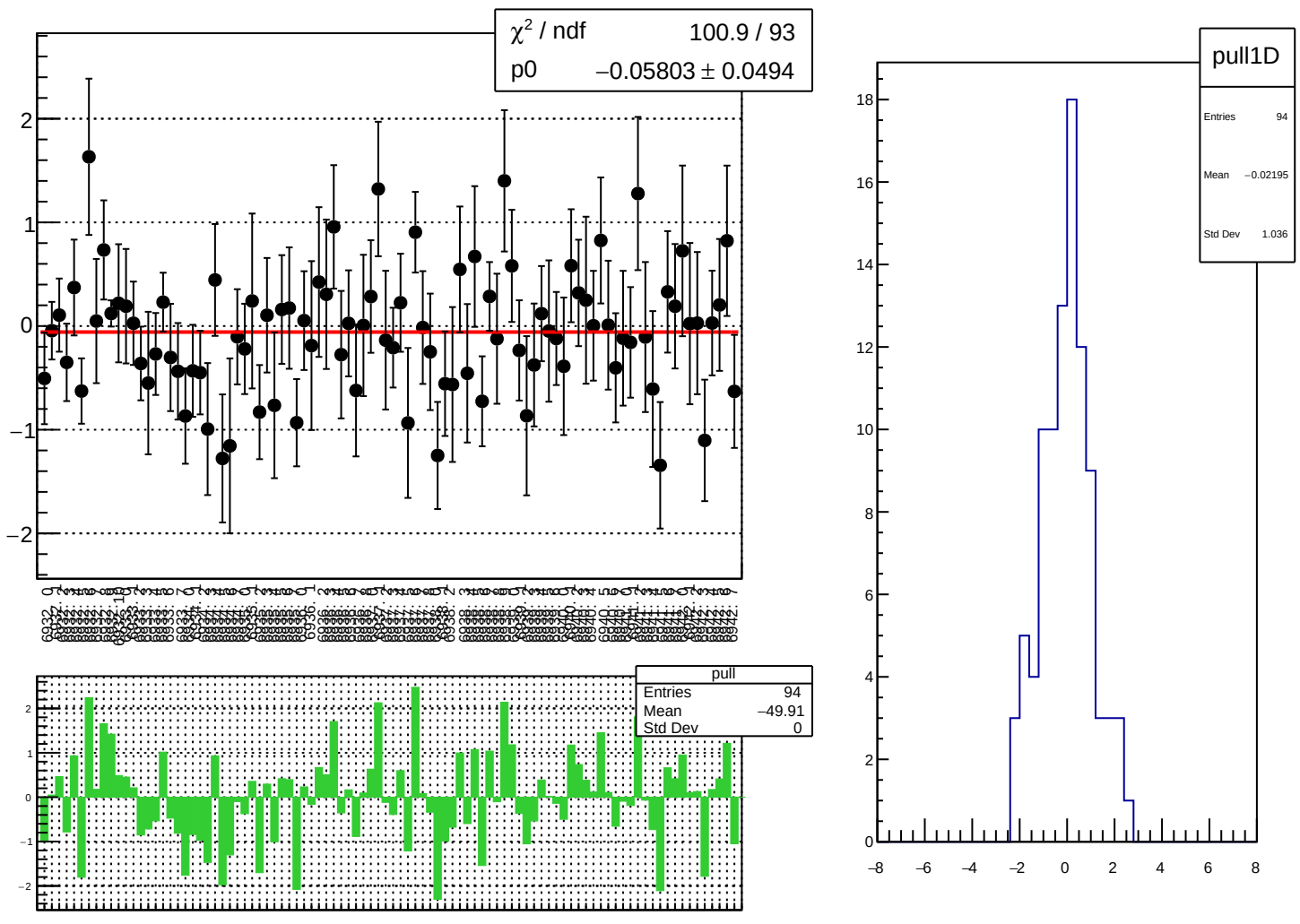

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05804 ± 0.0494
pull
Entries 94
Mean −49.96
Std Dev 0
pull1D
Entries 94
Mean −0.02194
Std Dev 1.036

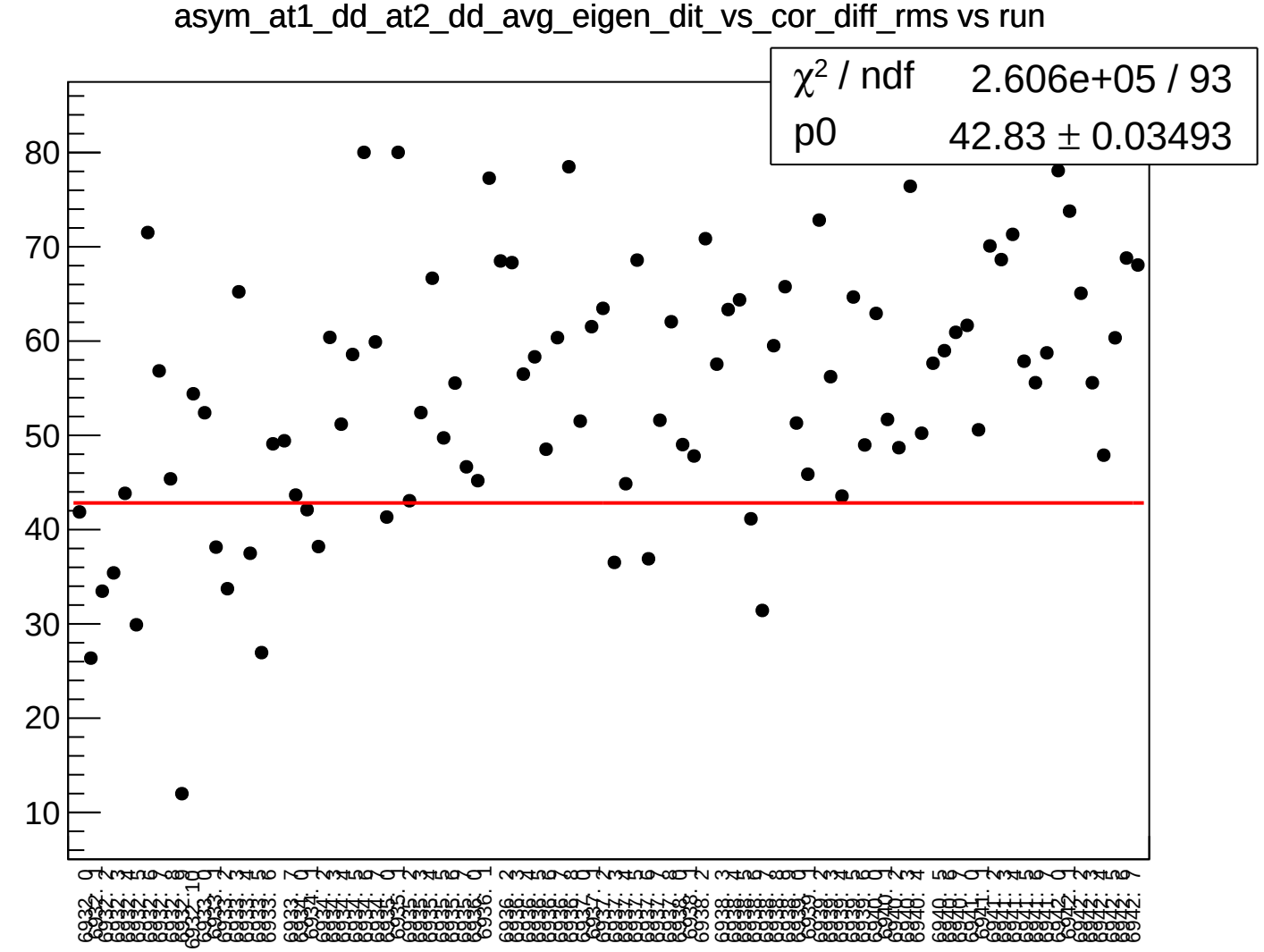

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

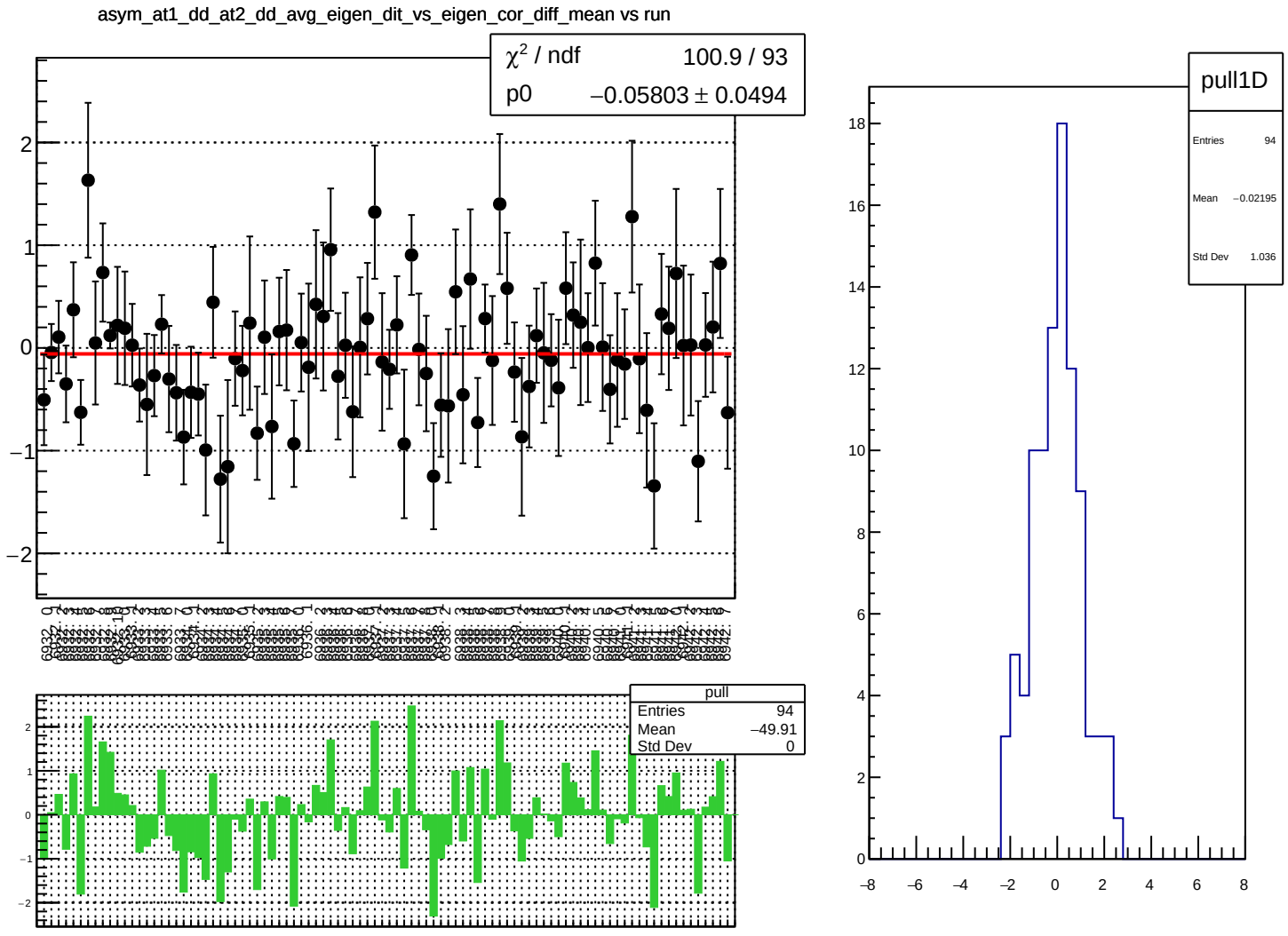

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.99 / 93
p0 −2.405e−06 ± 3.321e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 169.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

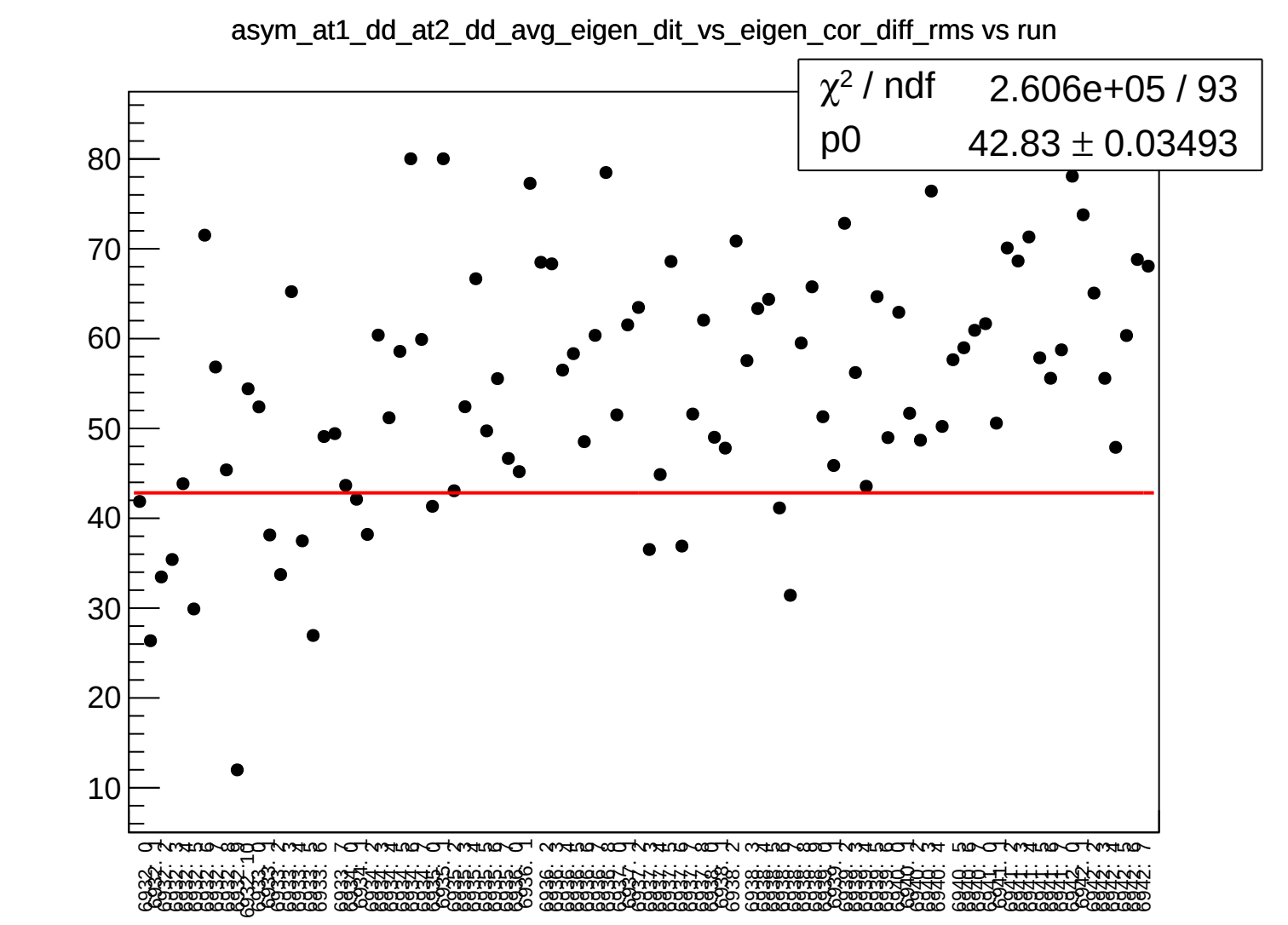

pull1D
Entries 94
Mean 0.009124
Std Dev 0.9108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

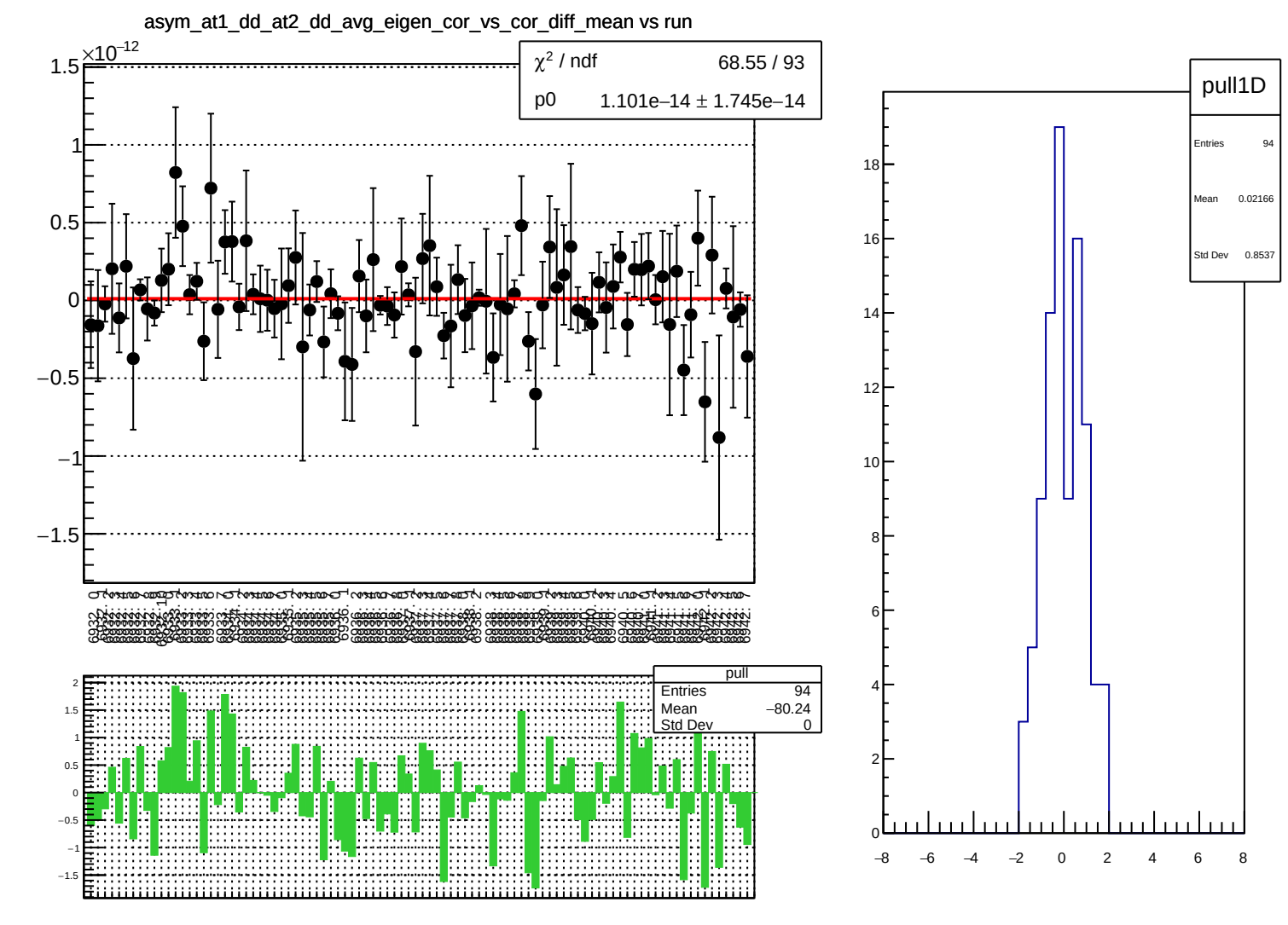

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5733 / 93
p0 0.003114 ± 2.348e−06
0.0036
0.0034
0.0032
0.003
0.0028

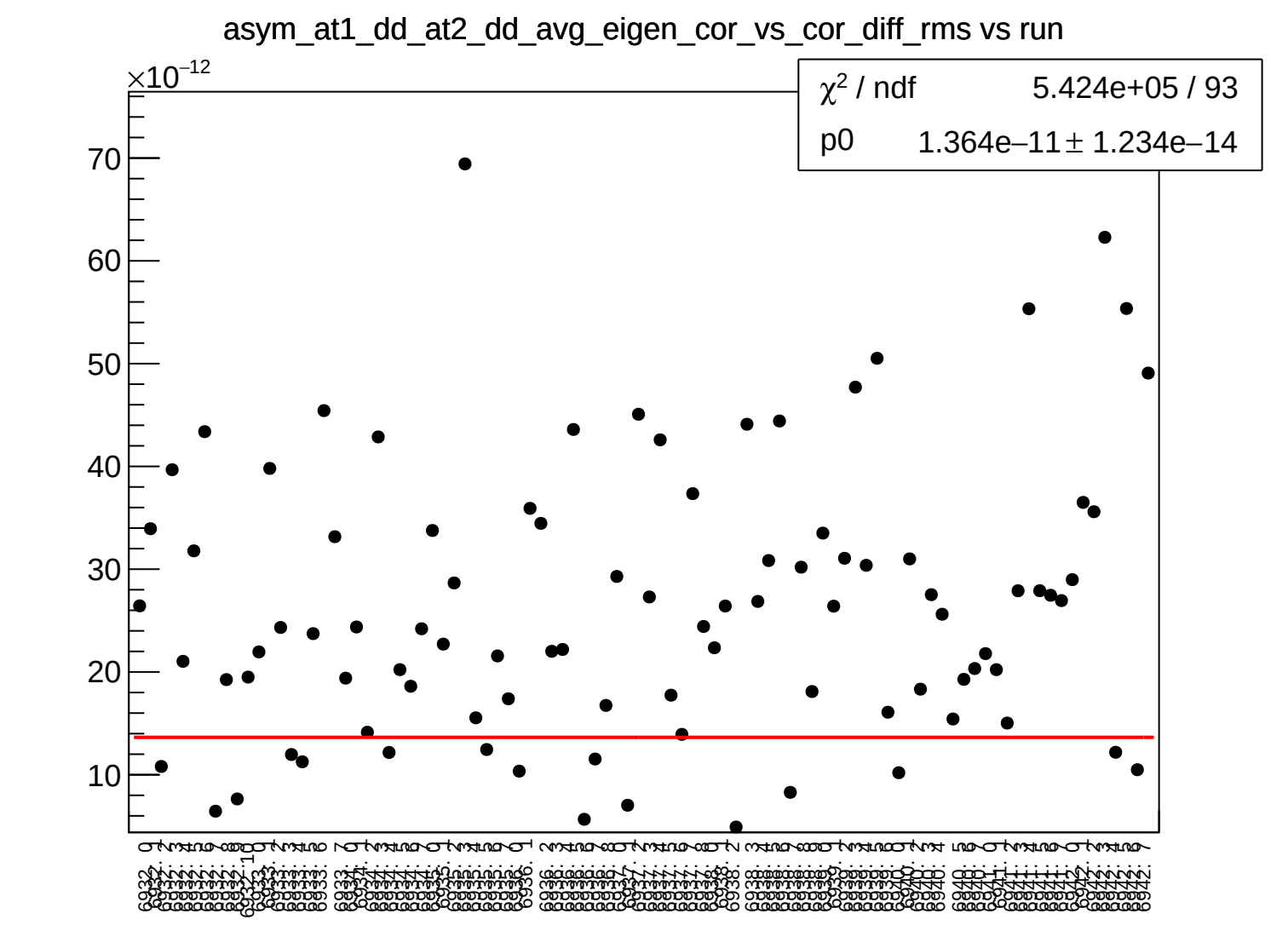

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05803 ± 0.0494
pull
Entries 94
Mean −49.91
Std Dev 0
pull1D
Entries 94
Mean −0.02195
Std Dev 1.036

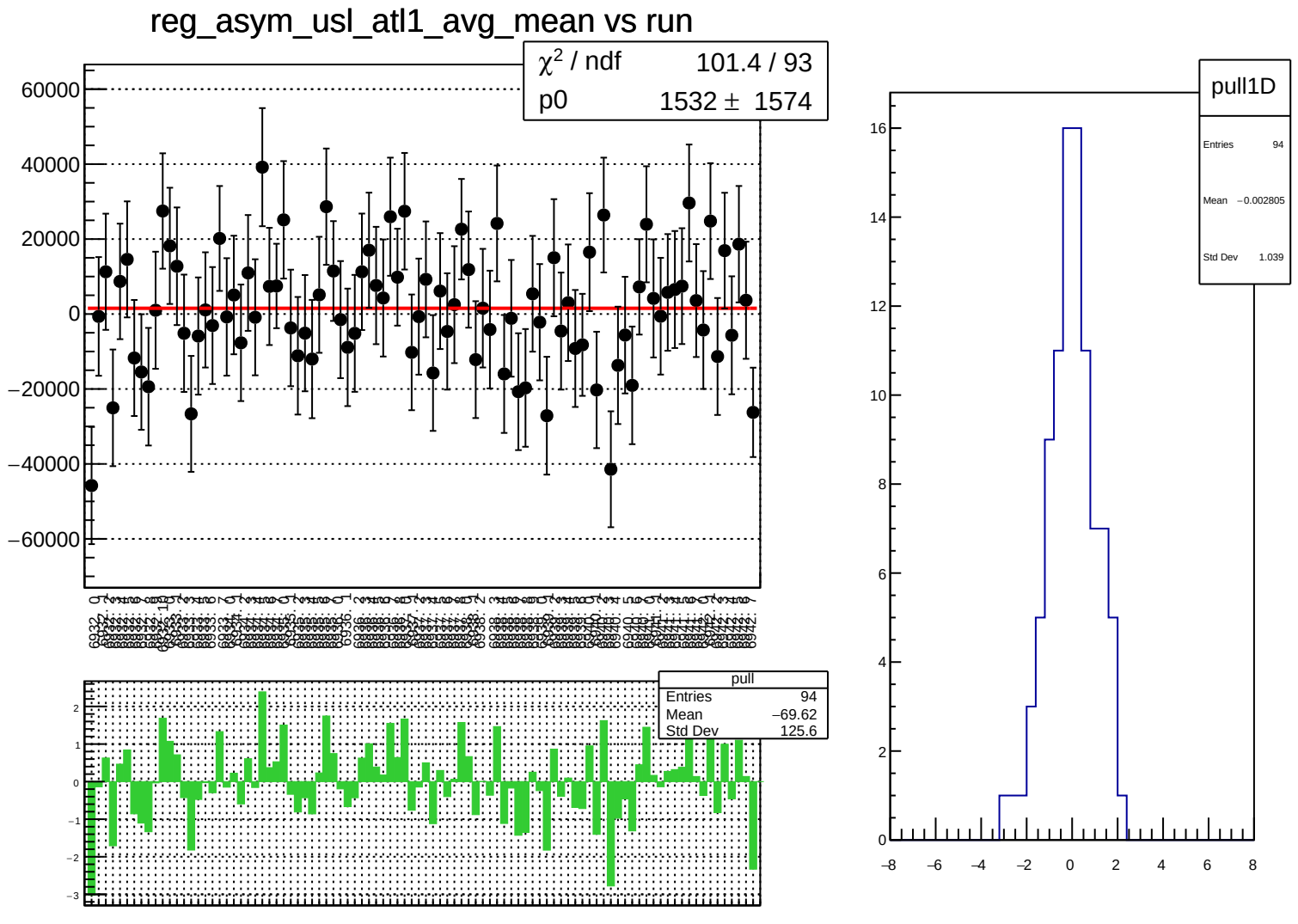

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.606e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

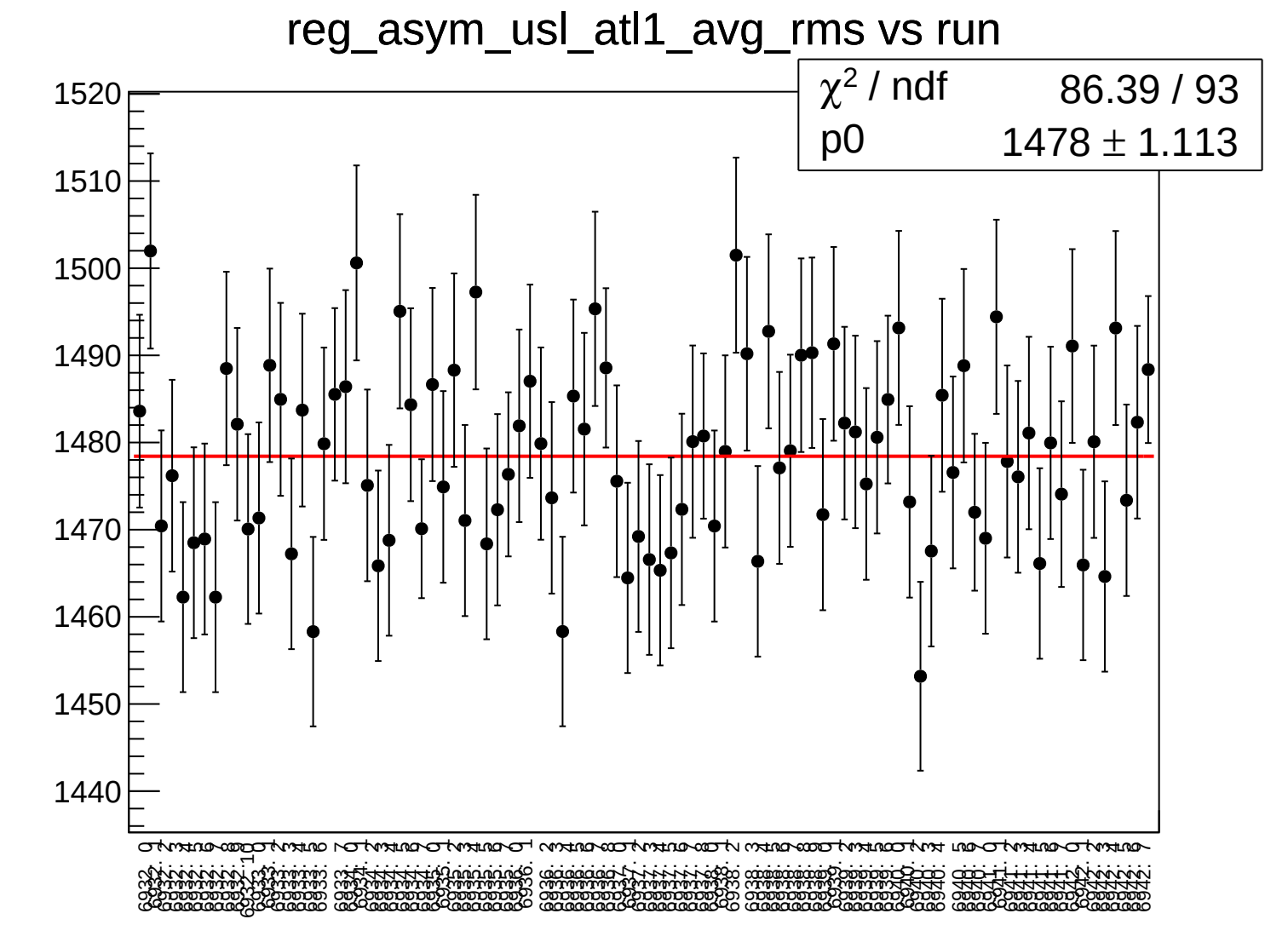

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.9 / 93
p0 −0.05803 ± 0.0494
pull
Entries 94
Mean −49.91
Std Dev 0
pull1D
Entries 94
Mean −0.02195
Std Dev 1.036

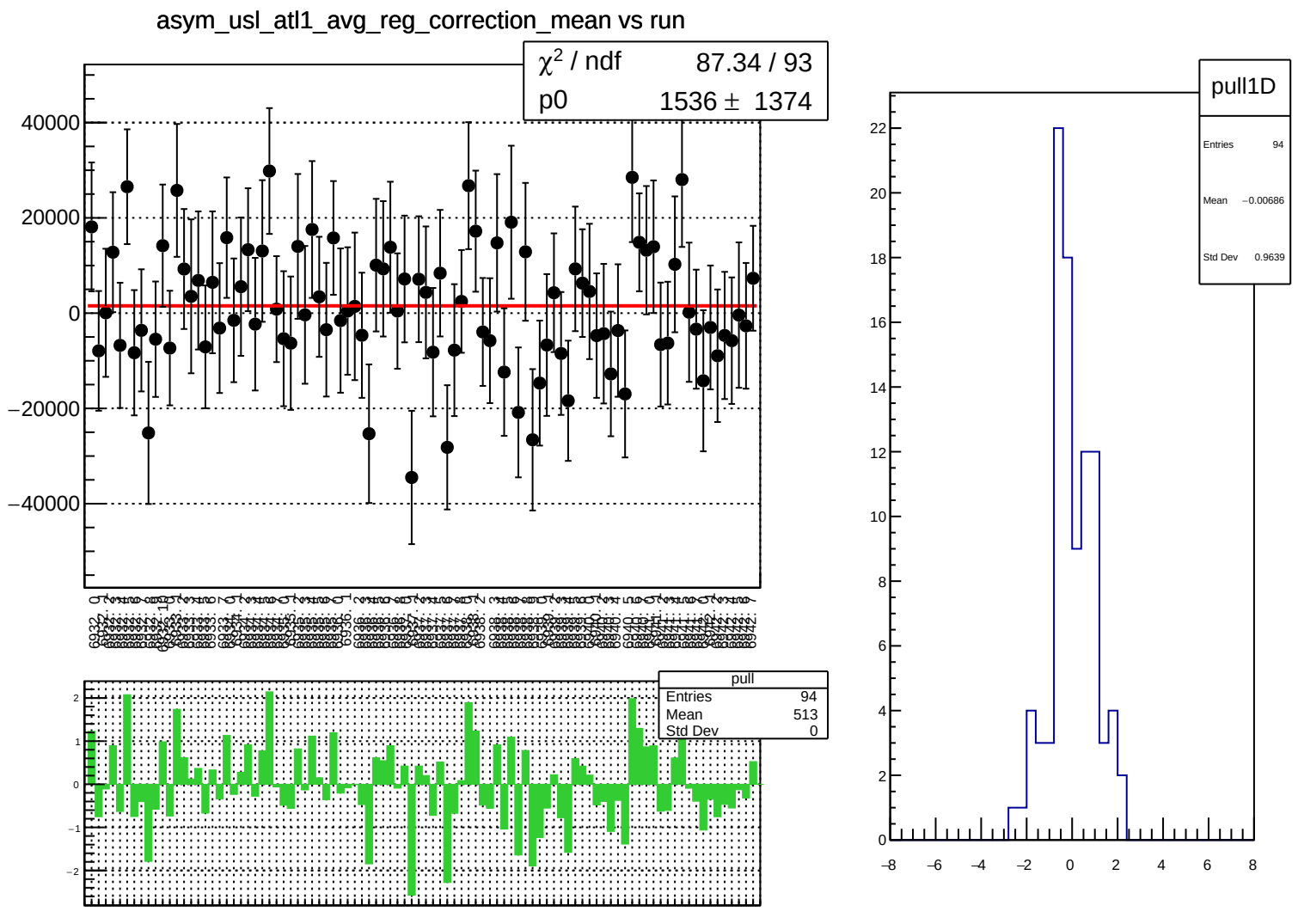

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.606e+05 / 93
p0 42.83 ± 0.03493
80
70
60
50
40
30
20
10

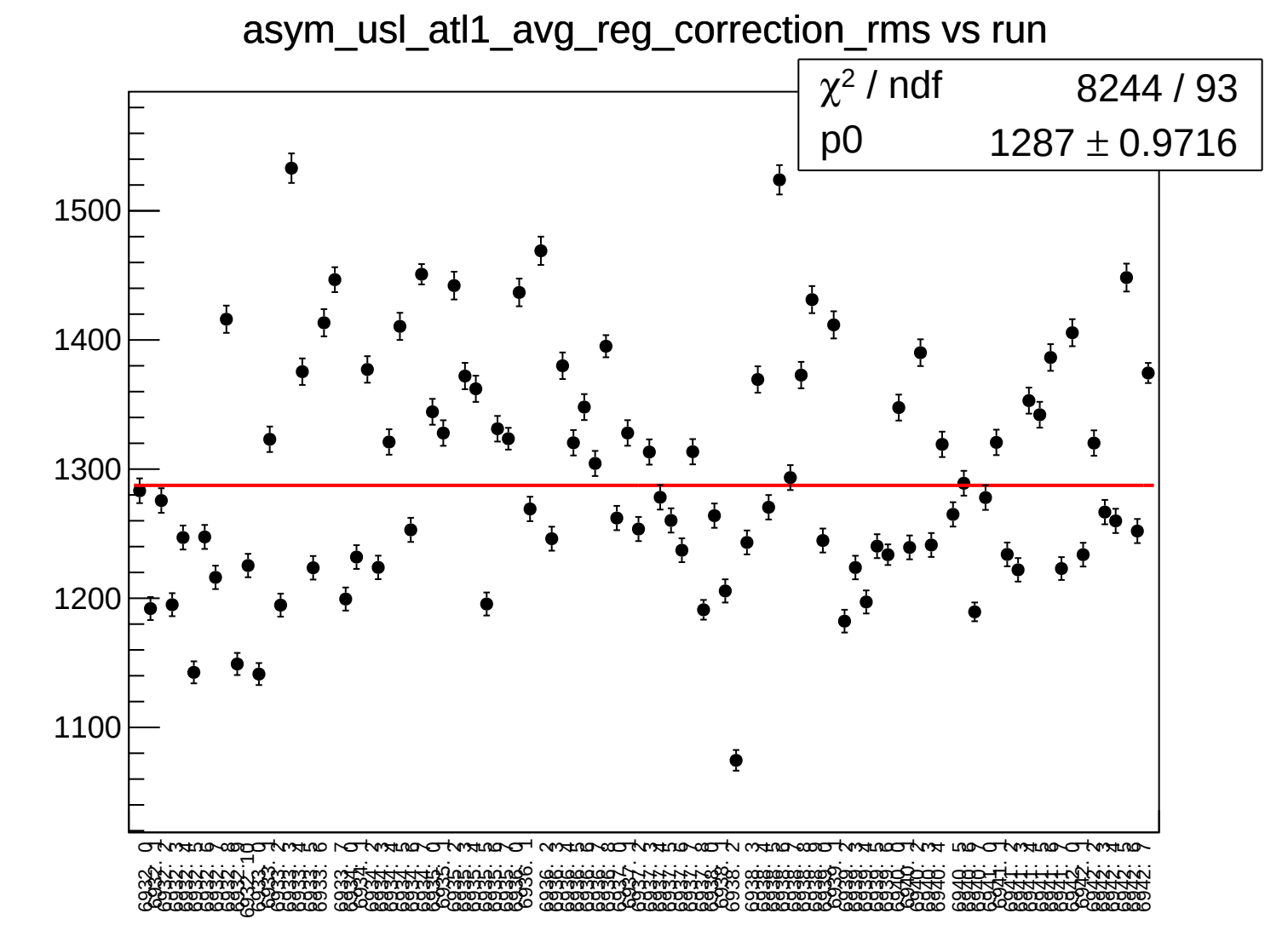

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.55 / 93
p0 1.101e−14 ± 1.745e−14
pull
Entries 94
Mean −80.24
Std Dev 0
pull1D
Entries 94
Mean 0.02166
Std Dev 0.8537

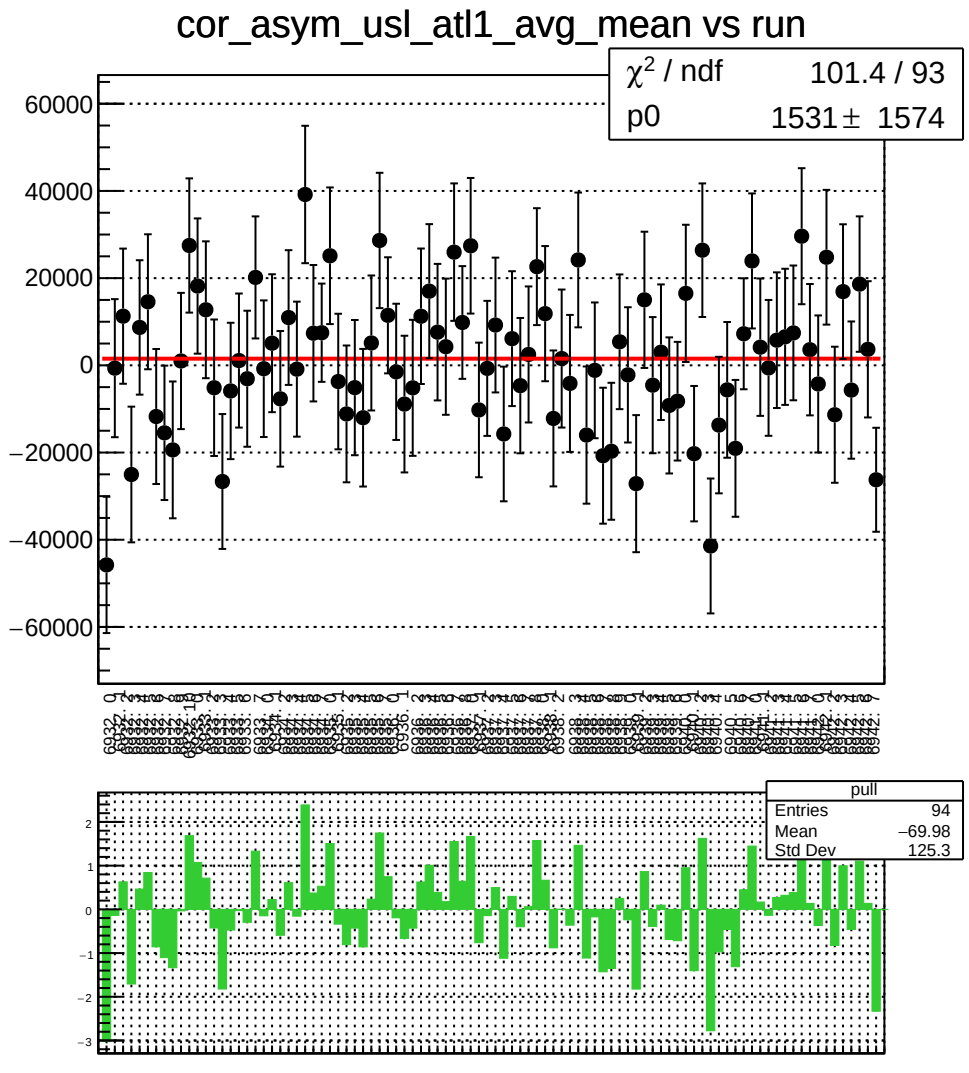

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.424e+05 / 93
p0 1.364e−11 ± 1.234e−14
70
60
50
40
30
20
10

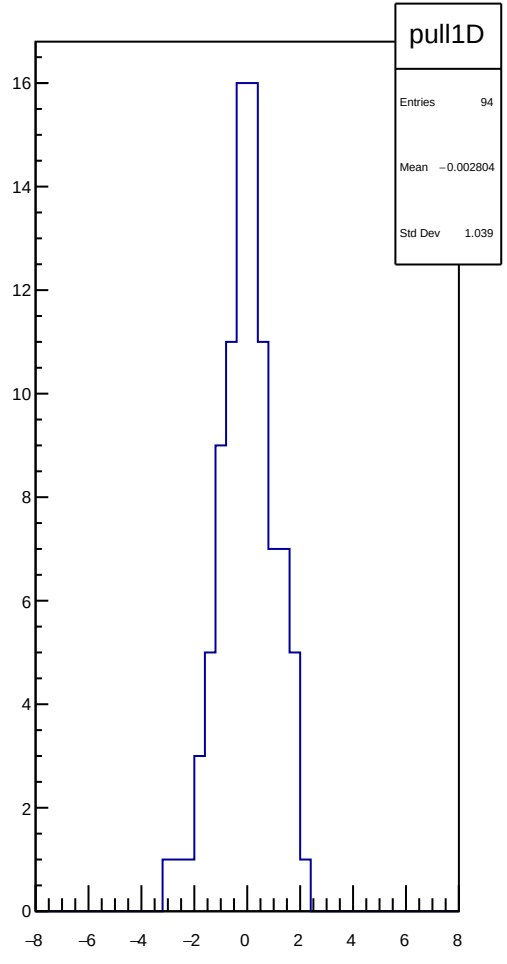

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.4 / 93
p0 1532 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −69.62
Std Dev 125.6
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002805
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

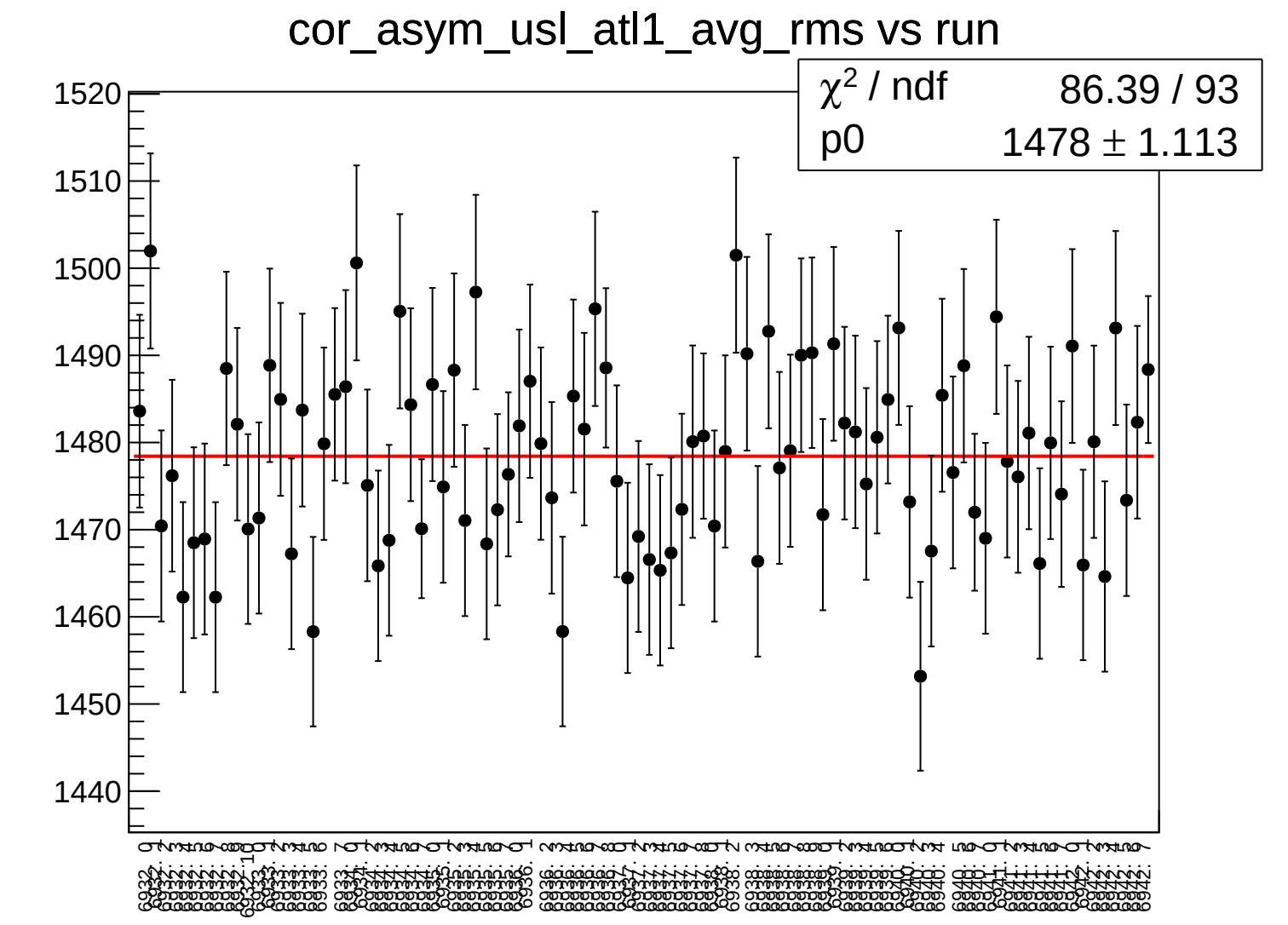

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 86.39 / 93
p0 1478 ± 1.113
1520
1510
1500
1490
1480
1470
1460
1450
1440

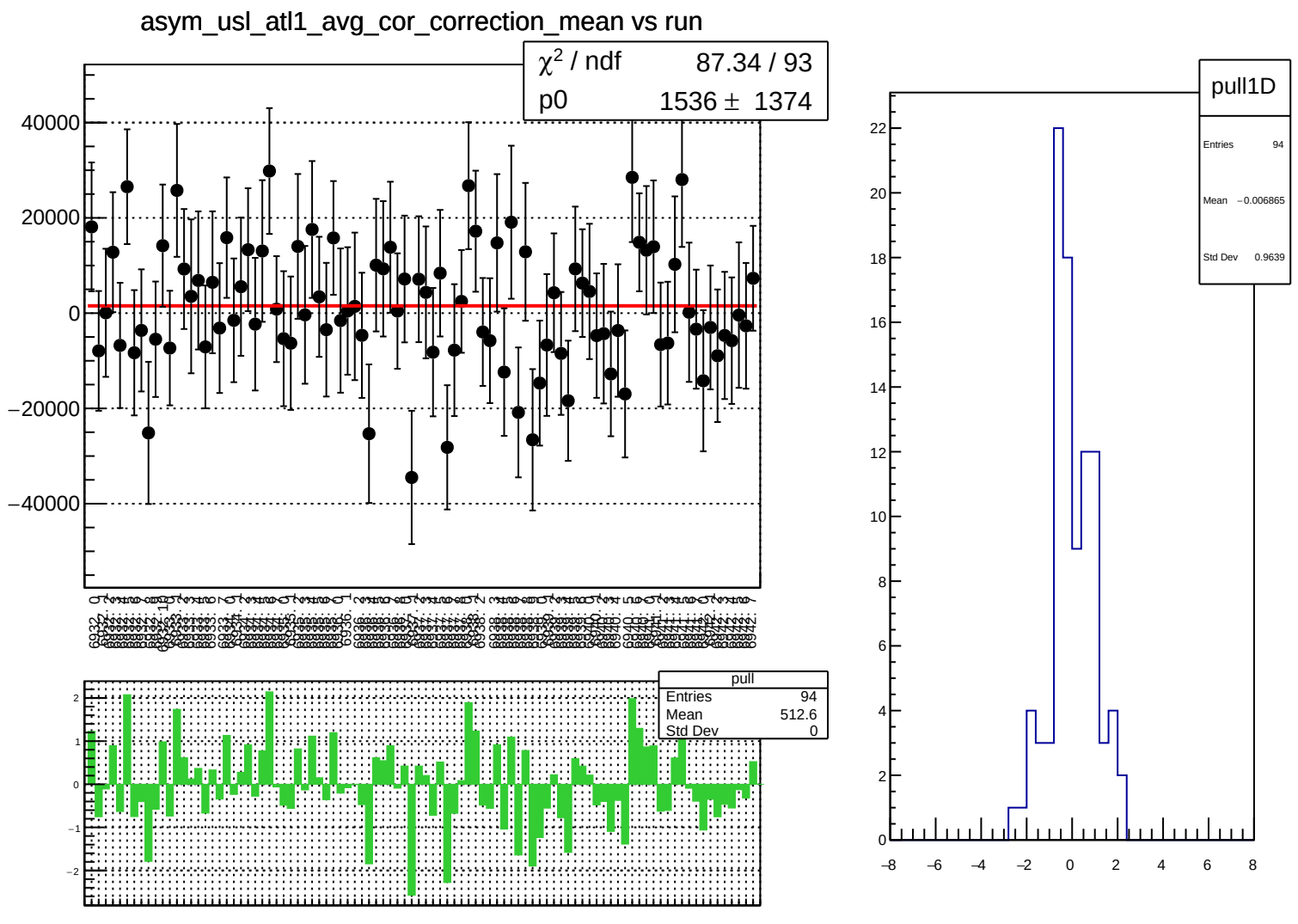

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 87.34 / 93
p0 1536 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 513
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.00686
Std Dev 0.9639
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

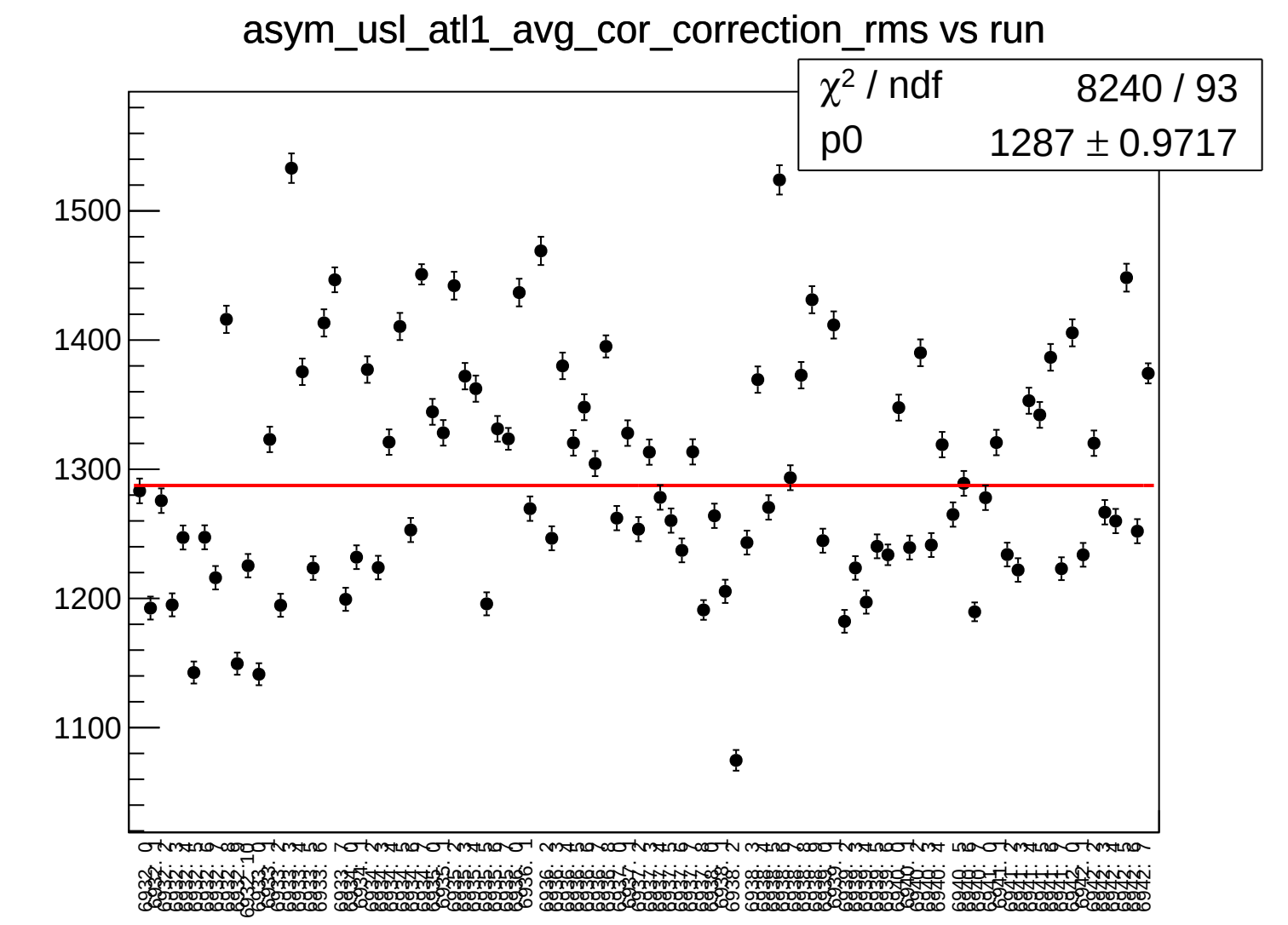

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 8244 / 93
p0 1287 ± 0.9716
1500
1400
1300
1200
1100

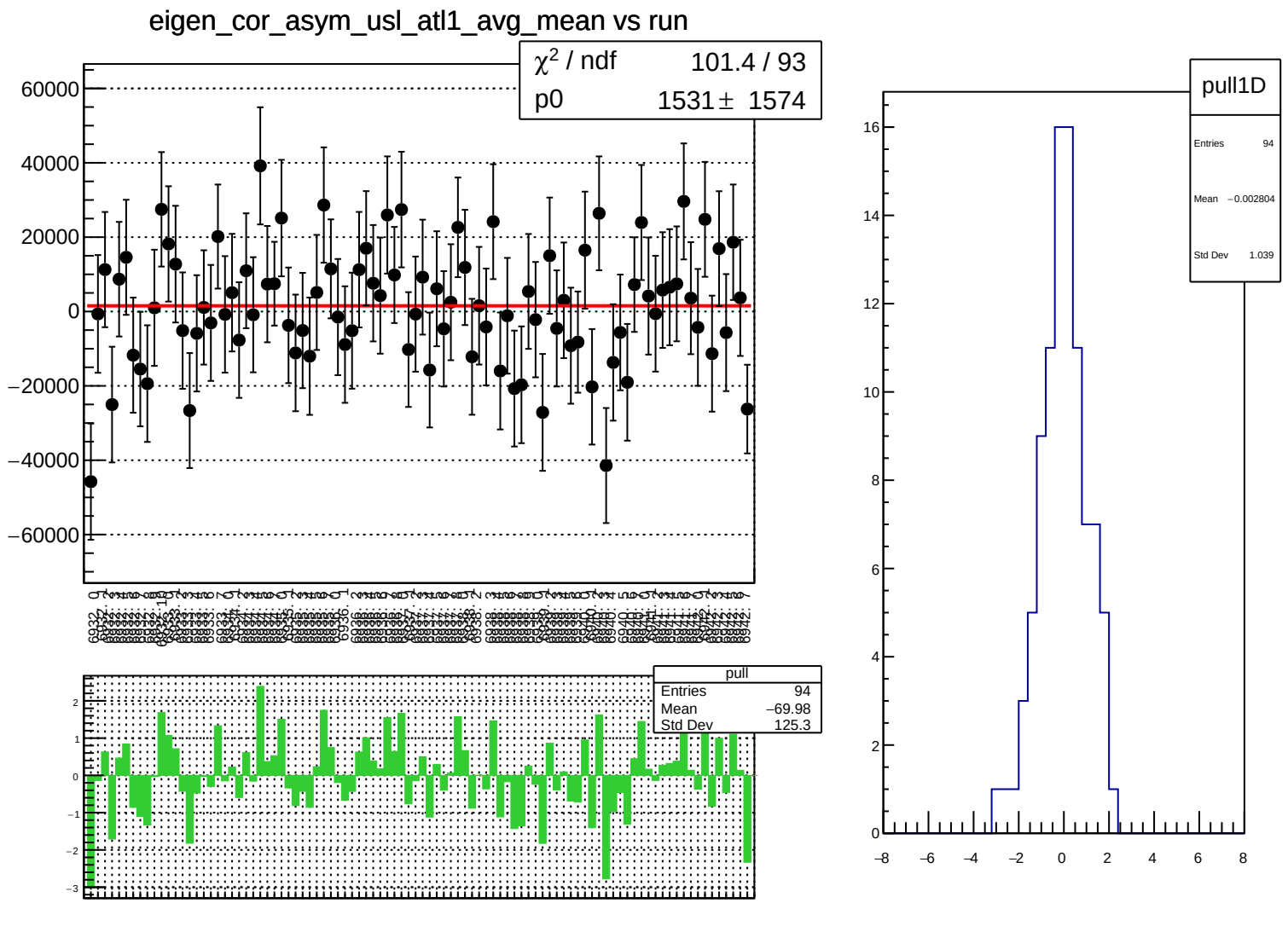

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.4 / 93
p0 1531 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −69.98
Std Dev 125.3
2
1
0
−1
−2
−3

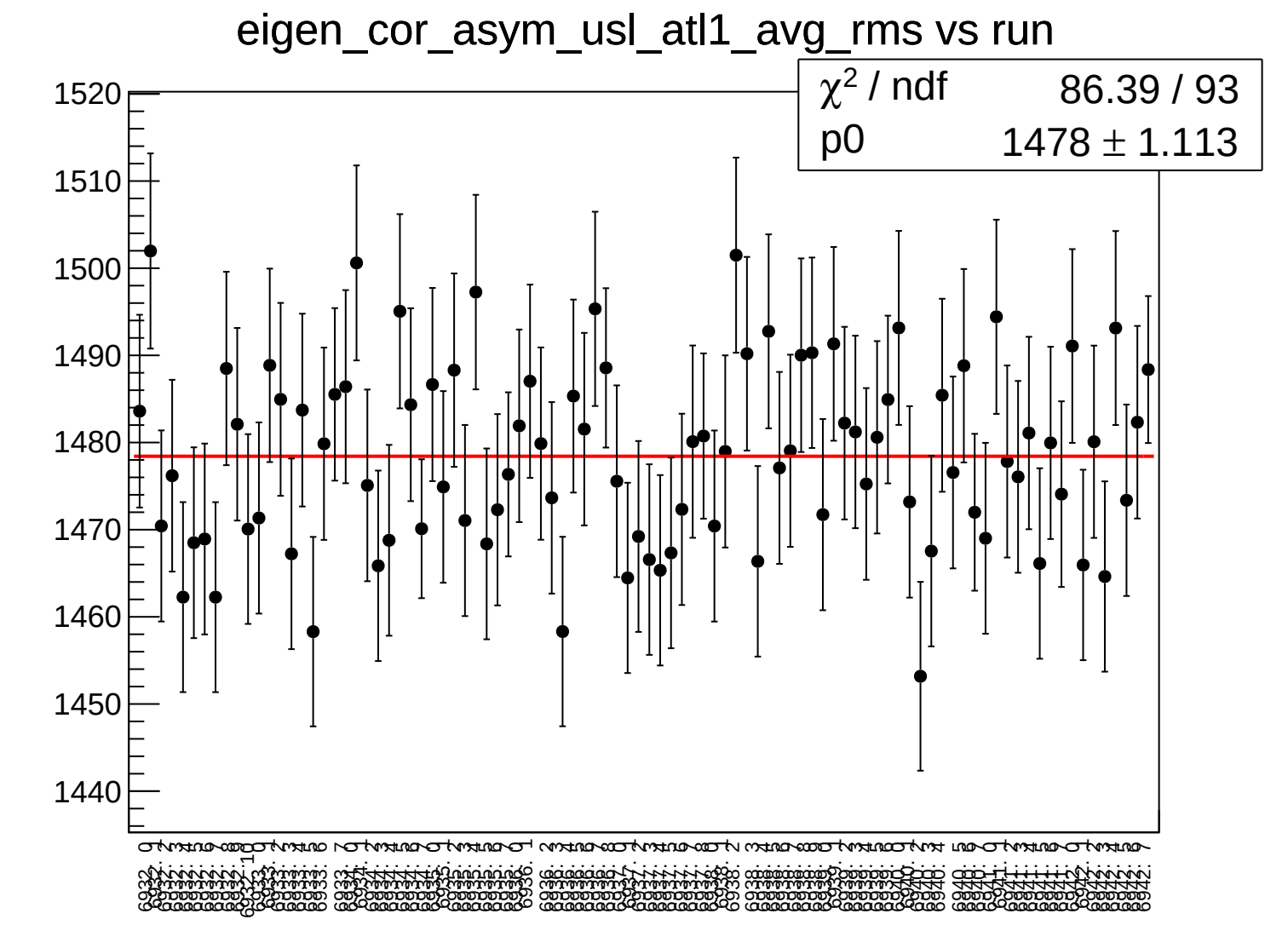

pull1D
Entries 94
Mean −0.002804
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

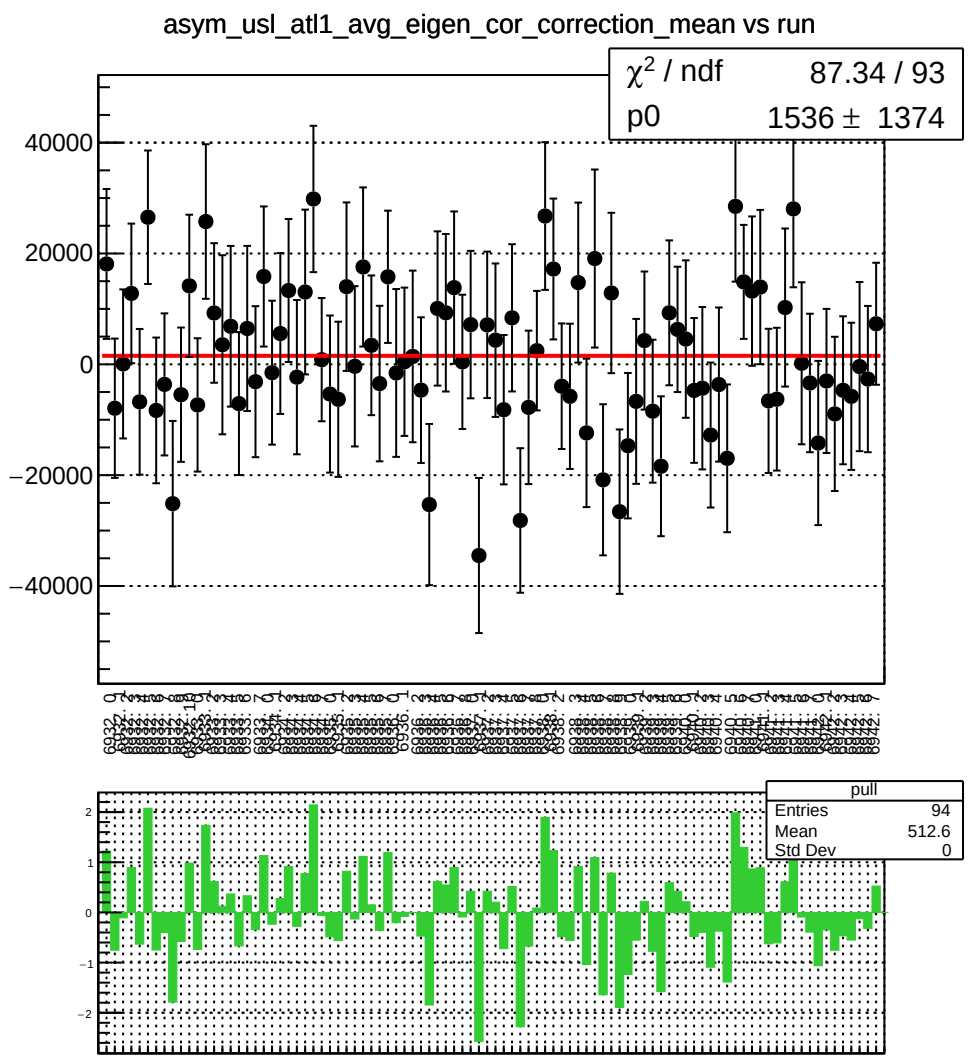

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 86.39 / 93
p0 1478 ± 1.113
1520
1510
1500
1490
1480
1470
1460
1450
1440

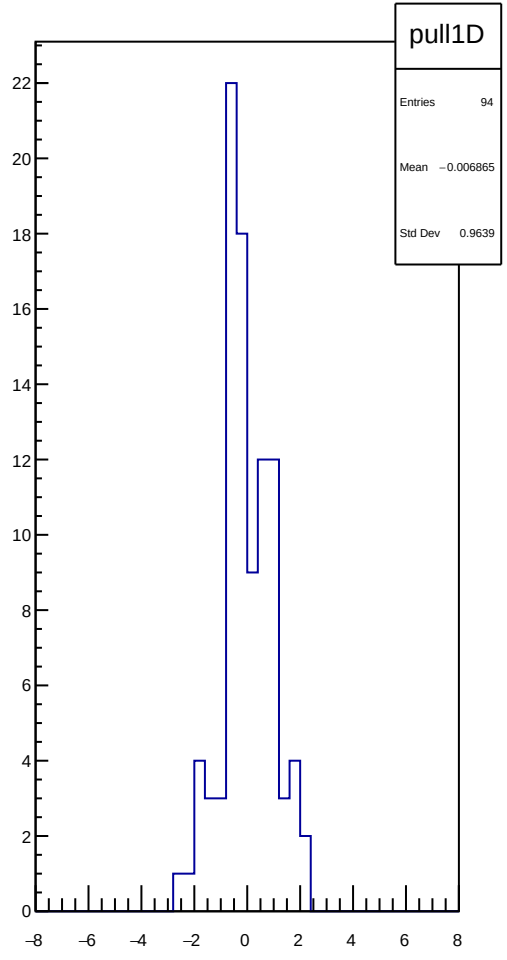

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 87.34 / 93
p0 1536 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 512.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006865
Std Dev 0.9639
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

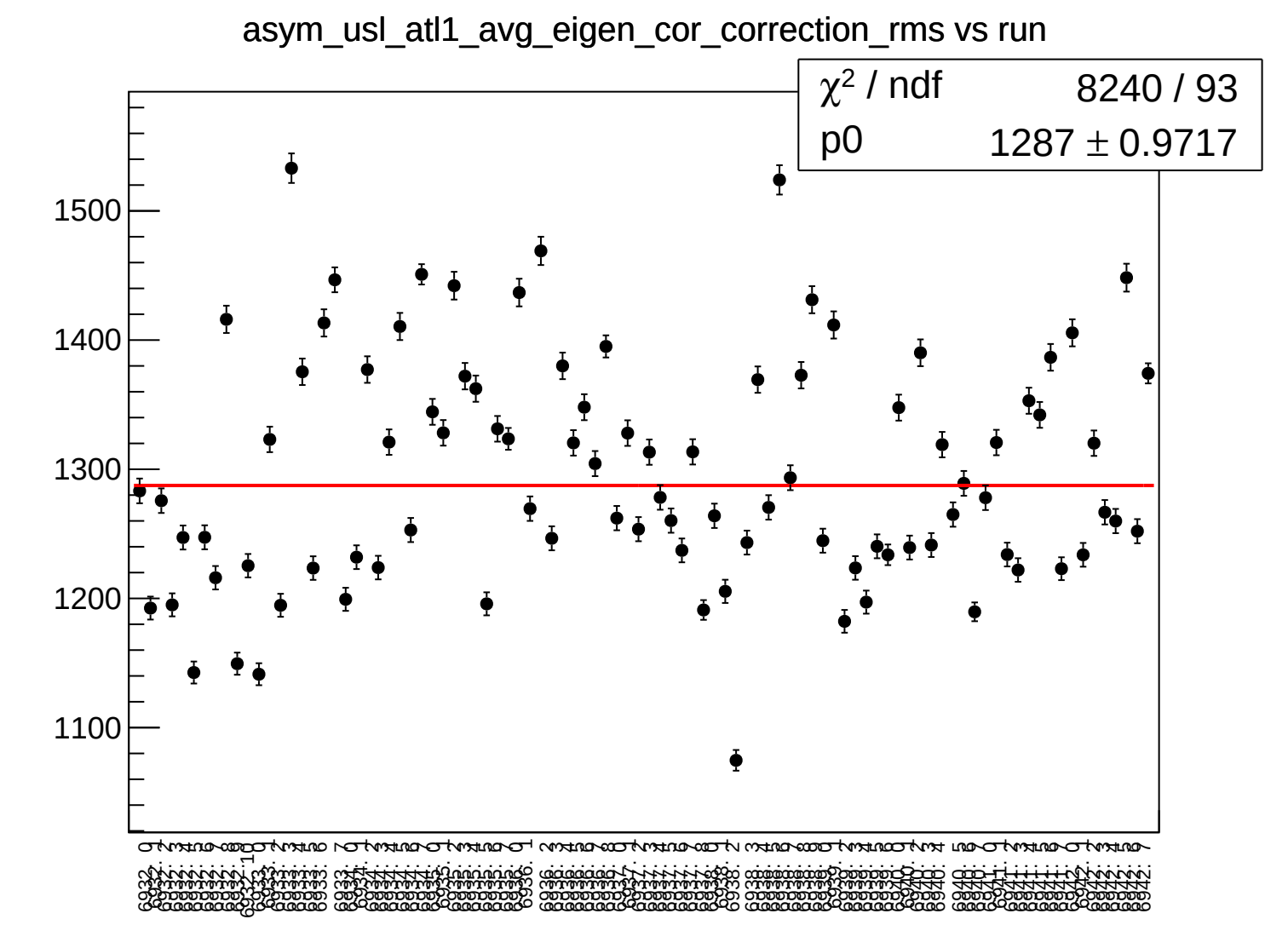

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 8240 / 93
p0 1287 ± 0.9717
1500
1400
1300
1200
1100

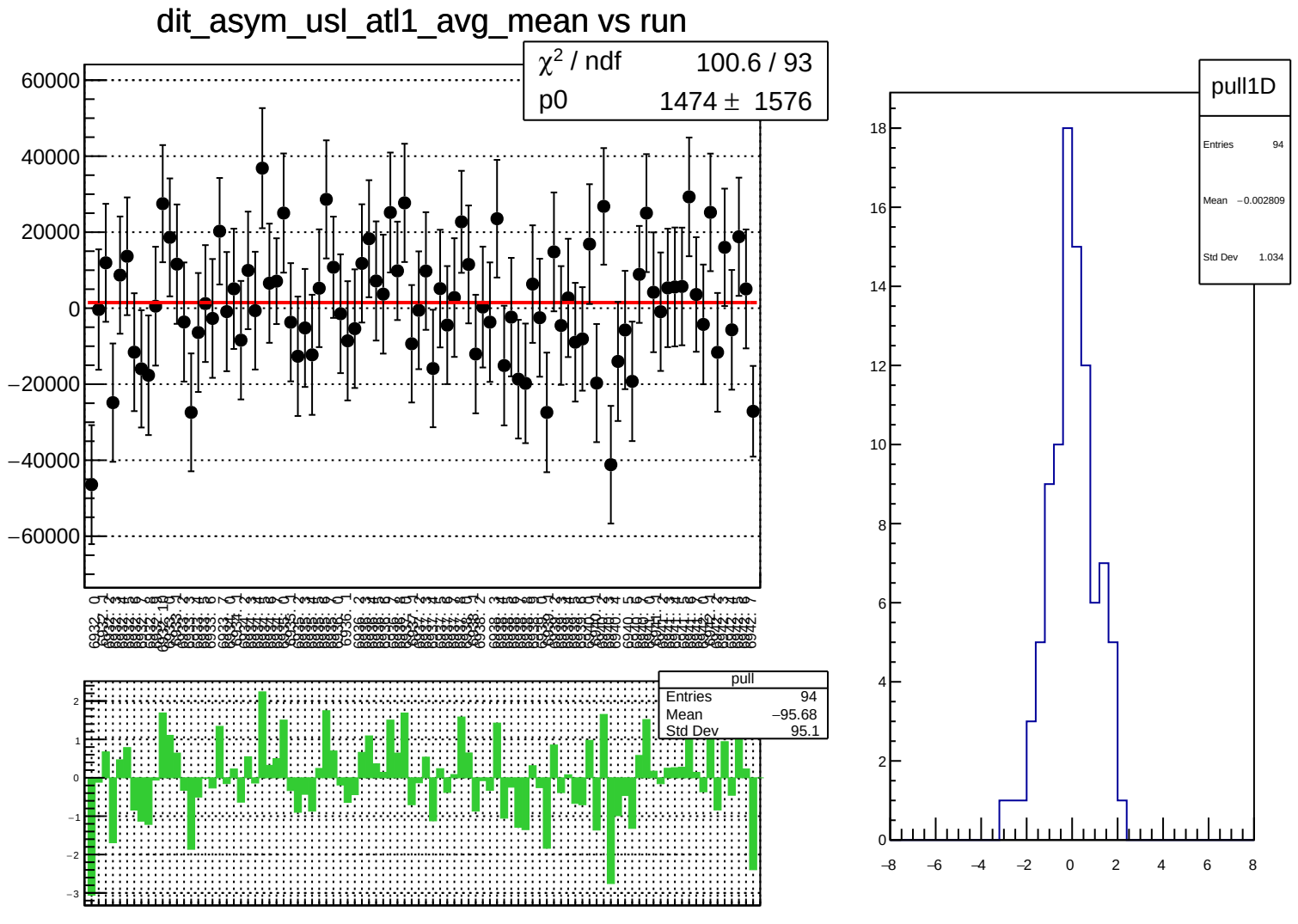

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.4 / 93
p0 1531 ± 1574
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −69.98
Std Dev 125.3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002804
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

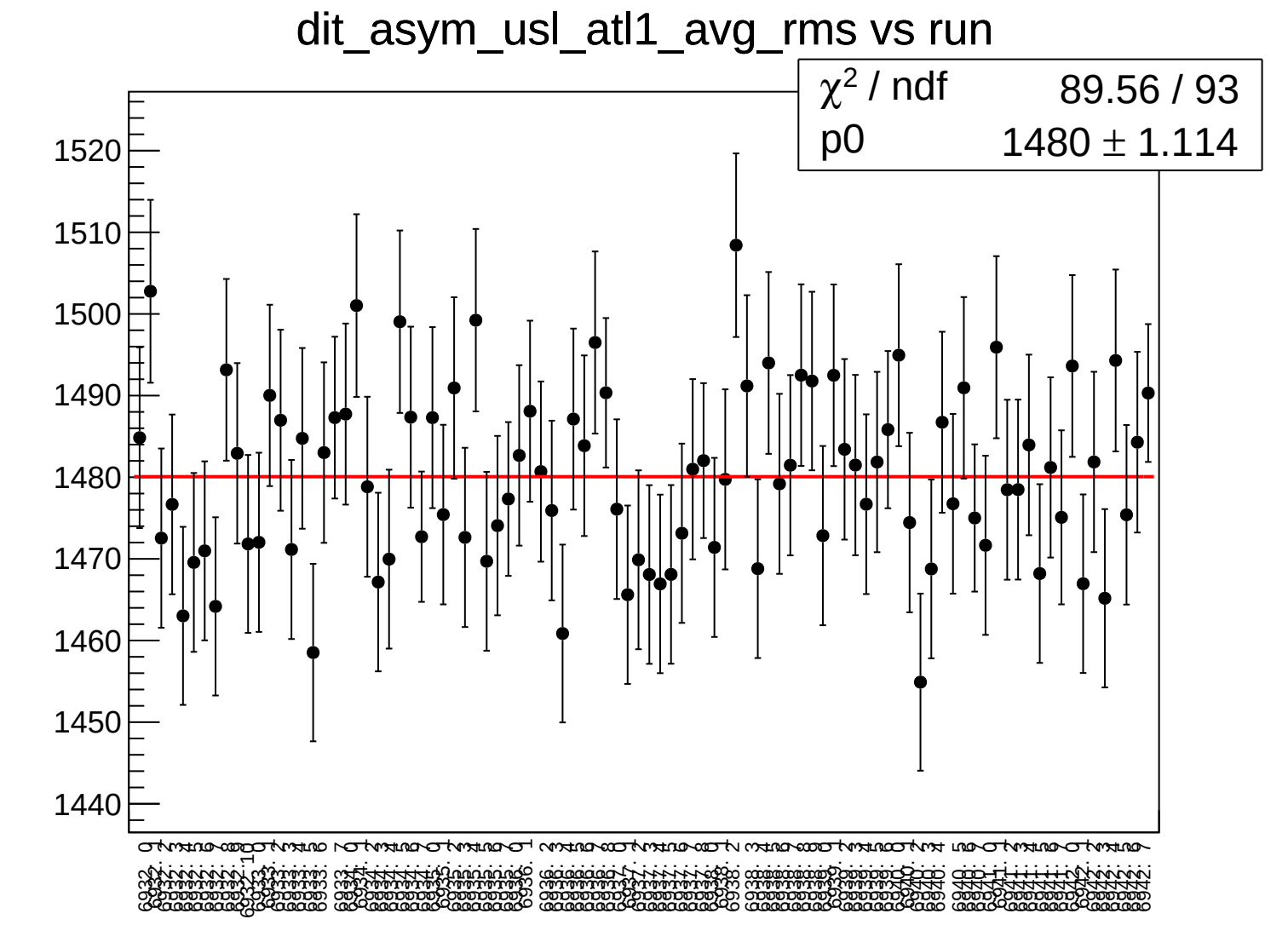

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 86.39 / 93
p0 1478 ± 1.113
1520
1510
1500
1490
1480
1470
1460
1450
1440

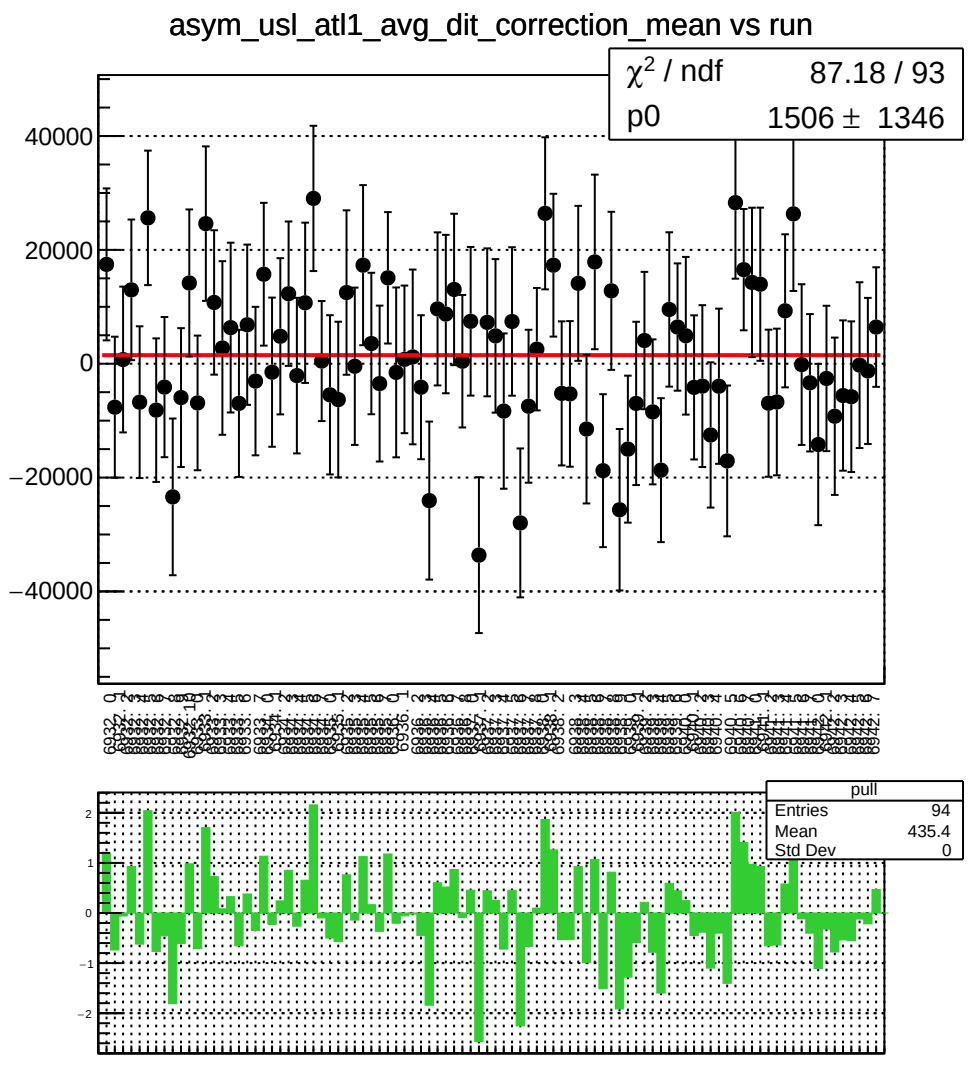

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.34 / 93
p0 1536 ± 1374
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 512.6
Std Dev 0
2
1
0
−1
−2

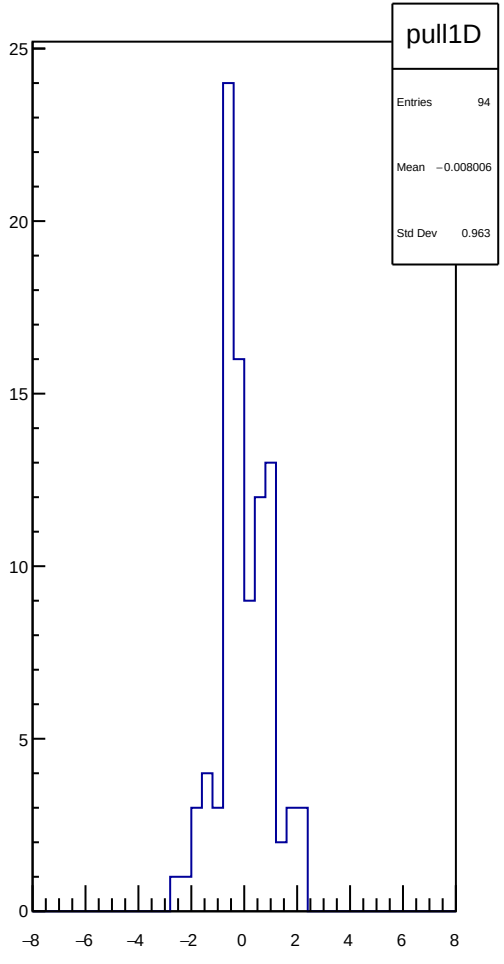

pull1D
Entries 94
Mean −0.006865
Std Dev 0.9639
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

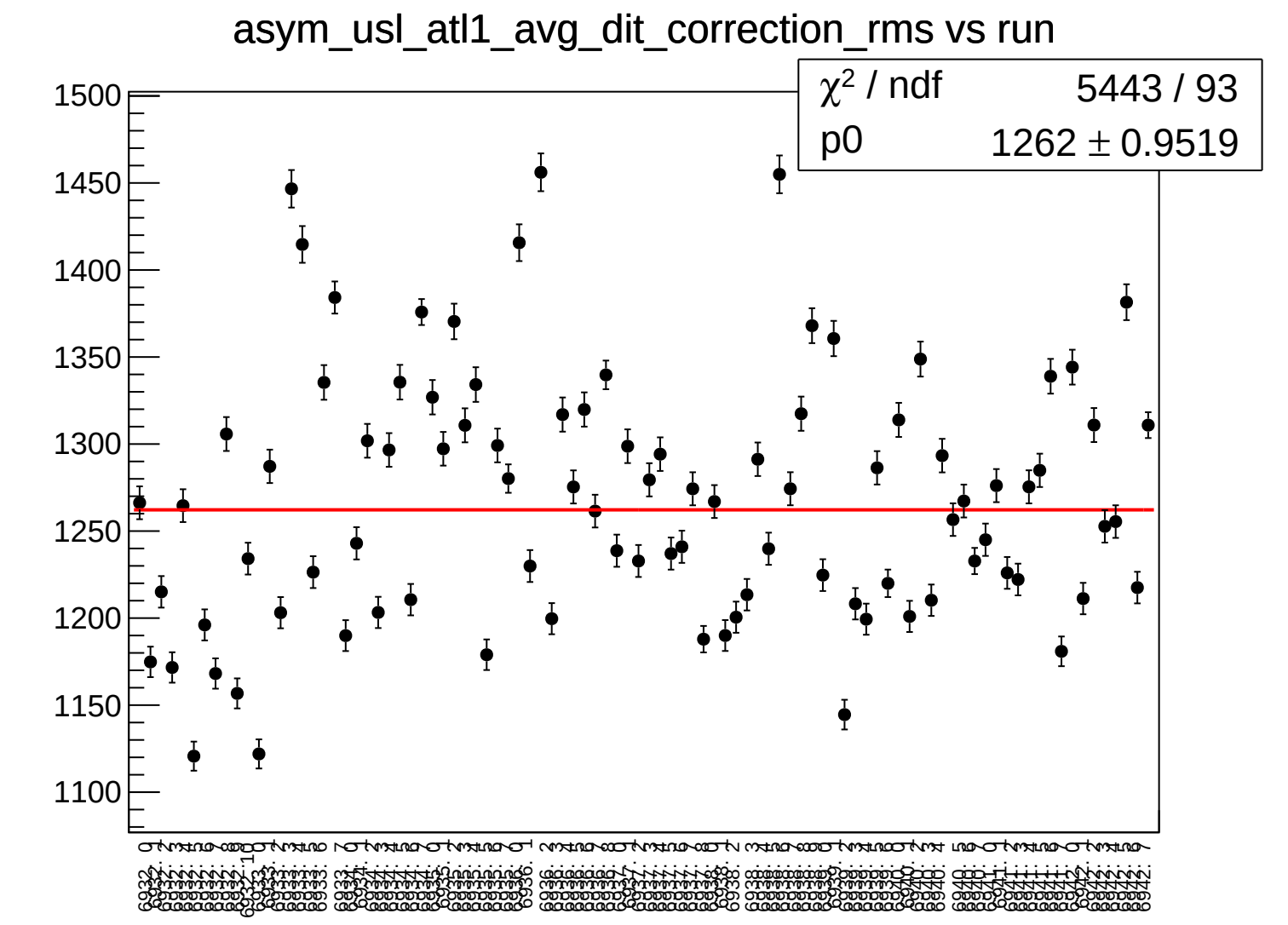

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8240 / 93
p0 1287 ± 0.9717
1500
1400
1300
1200
1100

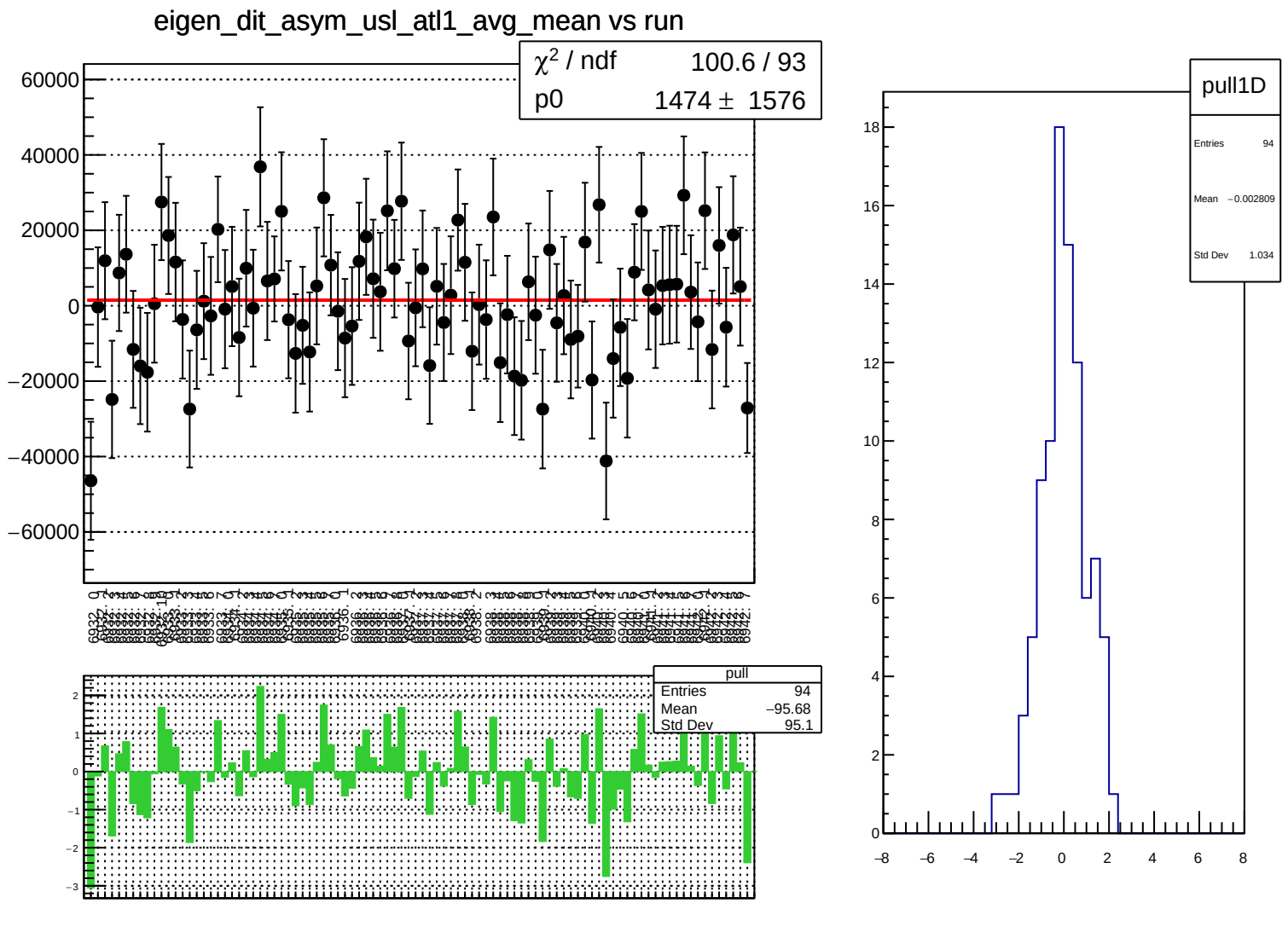

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 100.6 / 93
p0 1474 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −95.68
Std Dev 95.1
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002809
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

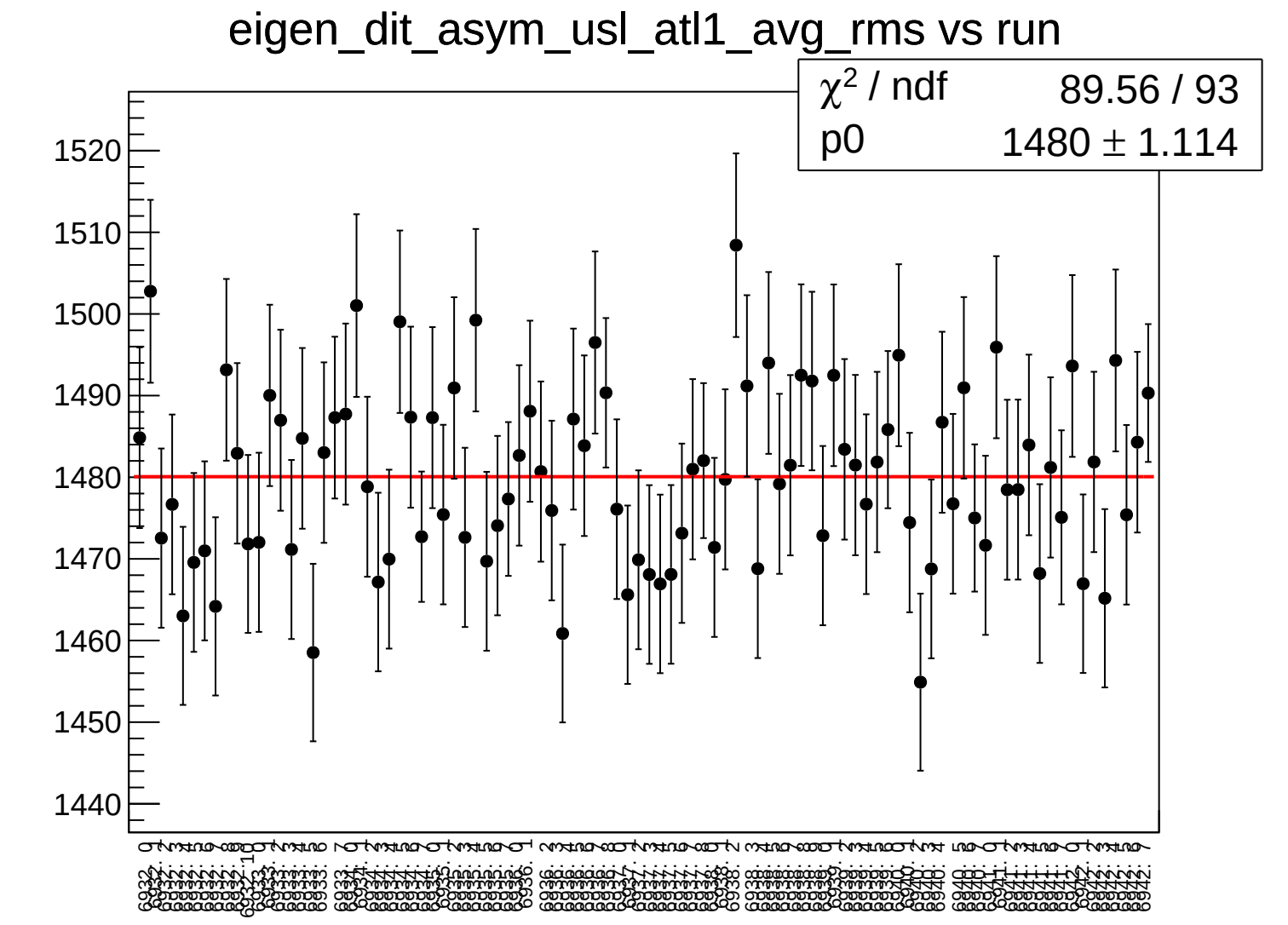

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 89.56 / 93
p0 1480 ± 1.114
1520
1510
1500
1490
1480
1470
1460
1450
1440

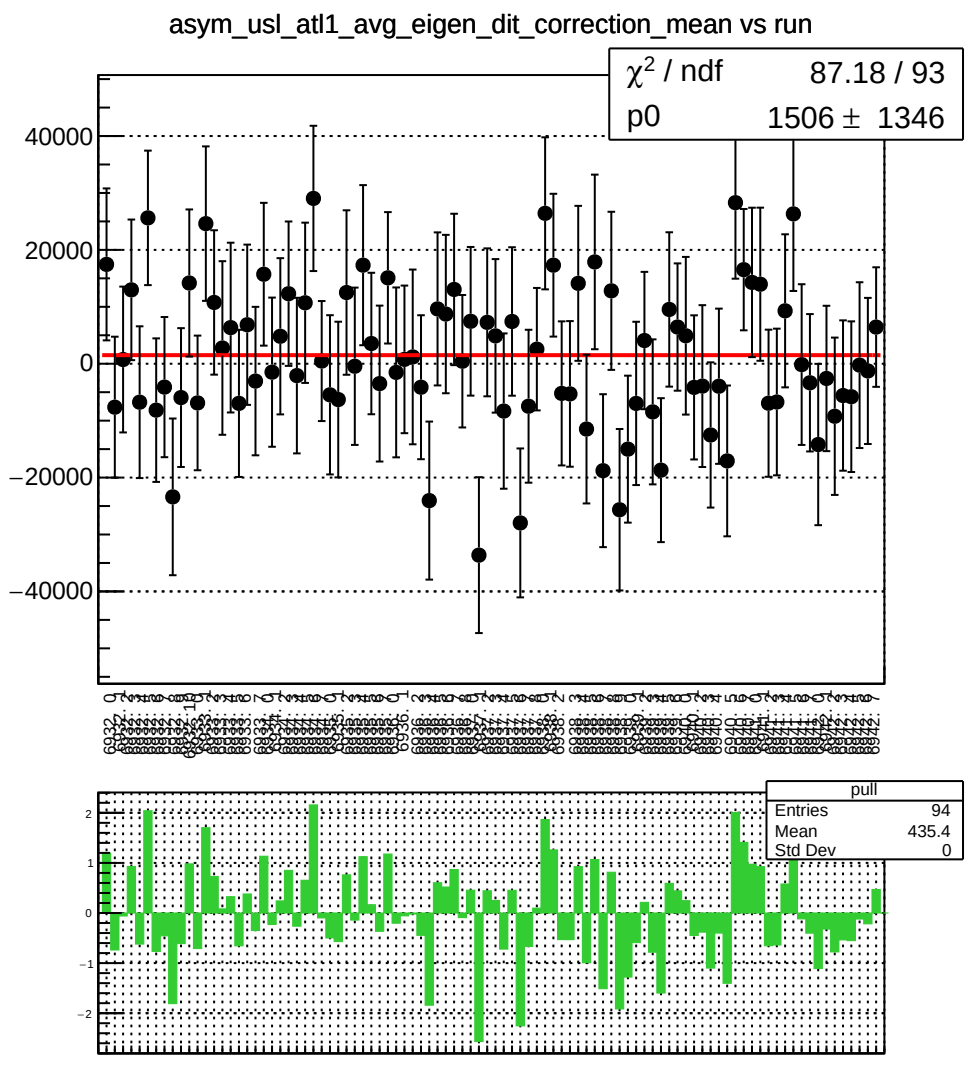

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 87.18 / 93
p0 1506 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 435.4
Std Dev 0
2
1
0
−1
−2

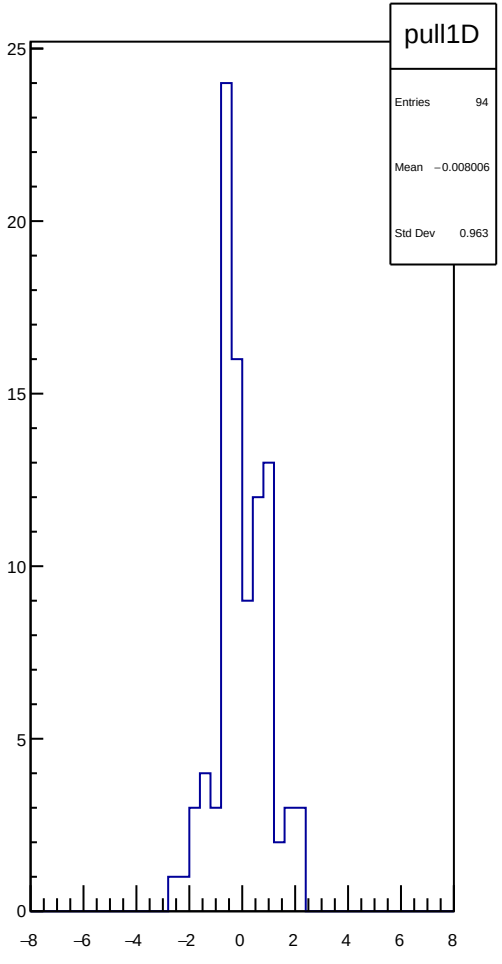

pull1D
Entries 94
Mean −0.008006
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

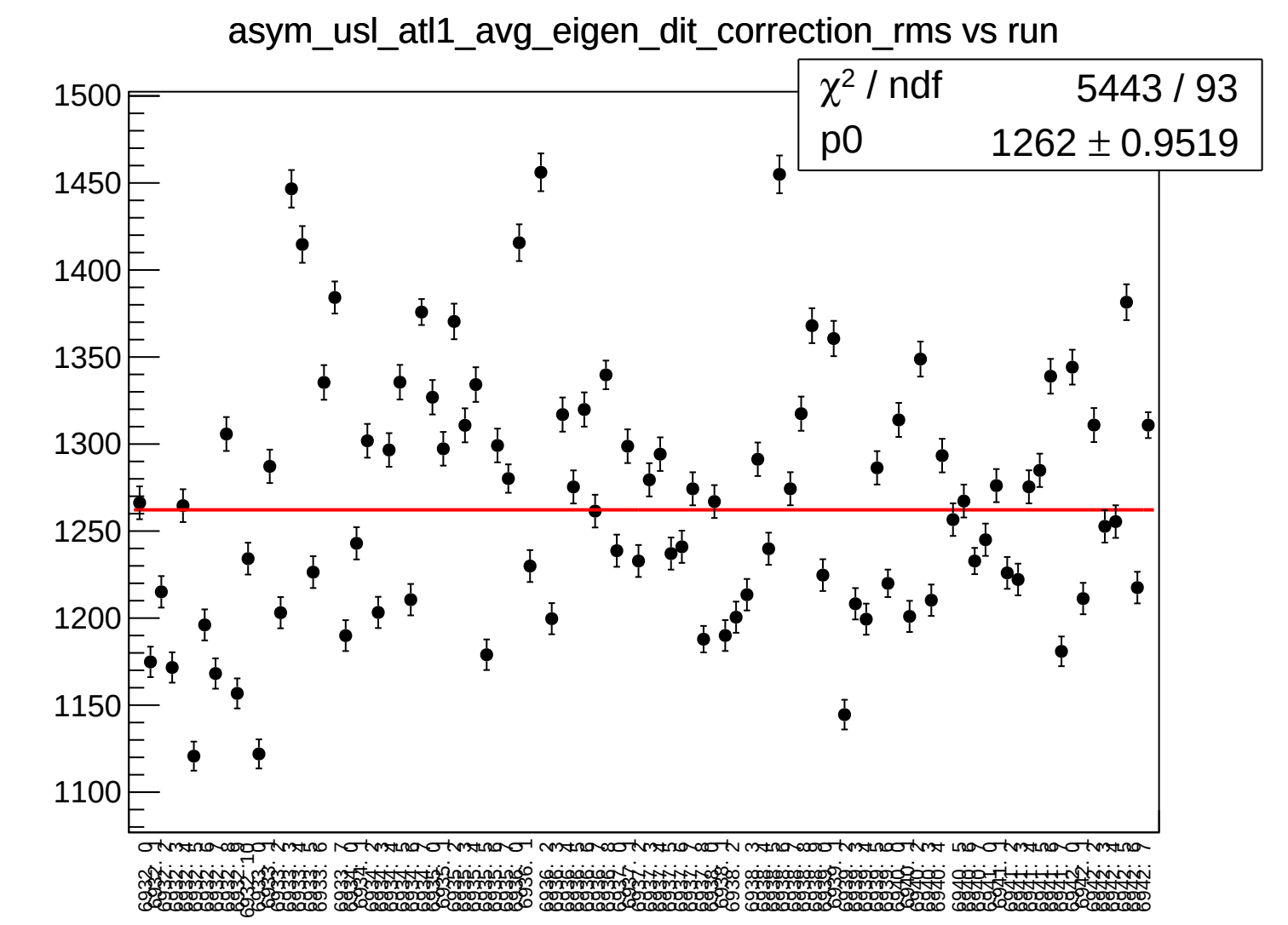

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5443 / 93
p0 1262 ± 0.9519
1500
1450
1400
1350
1300
1250
1200
1150
1100

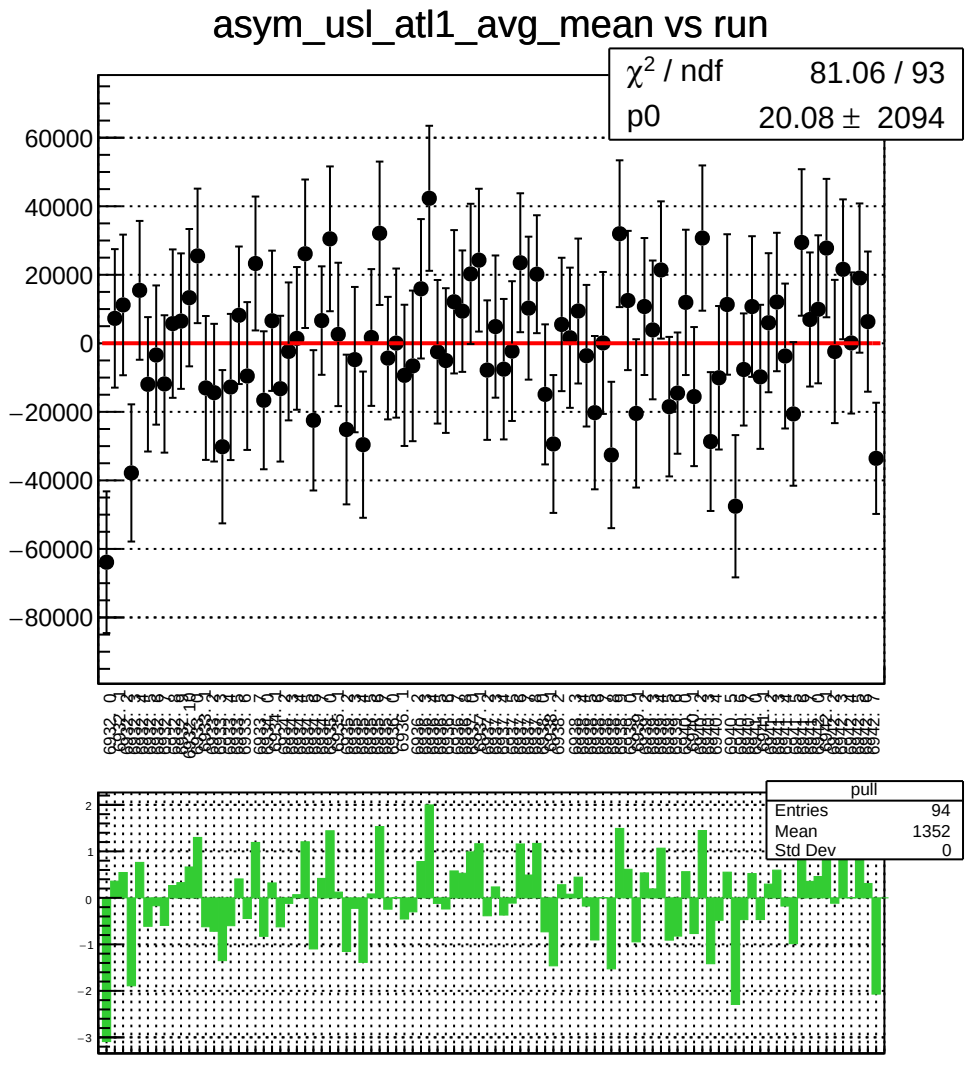

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 100.6 / 93
p0 1474 ± 1576
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −95.68
Std Dev 95.1
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002809
Std Dev 1.034
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

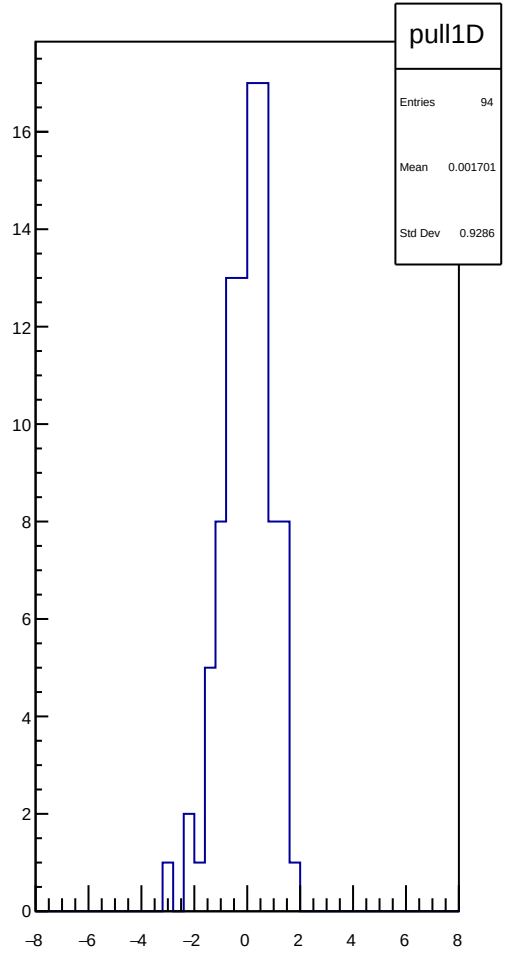

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 89.56 / 93
p0 1480 ± 1.114
1520
1510
1500
1490
1480
1470
1460
1450
1440

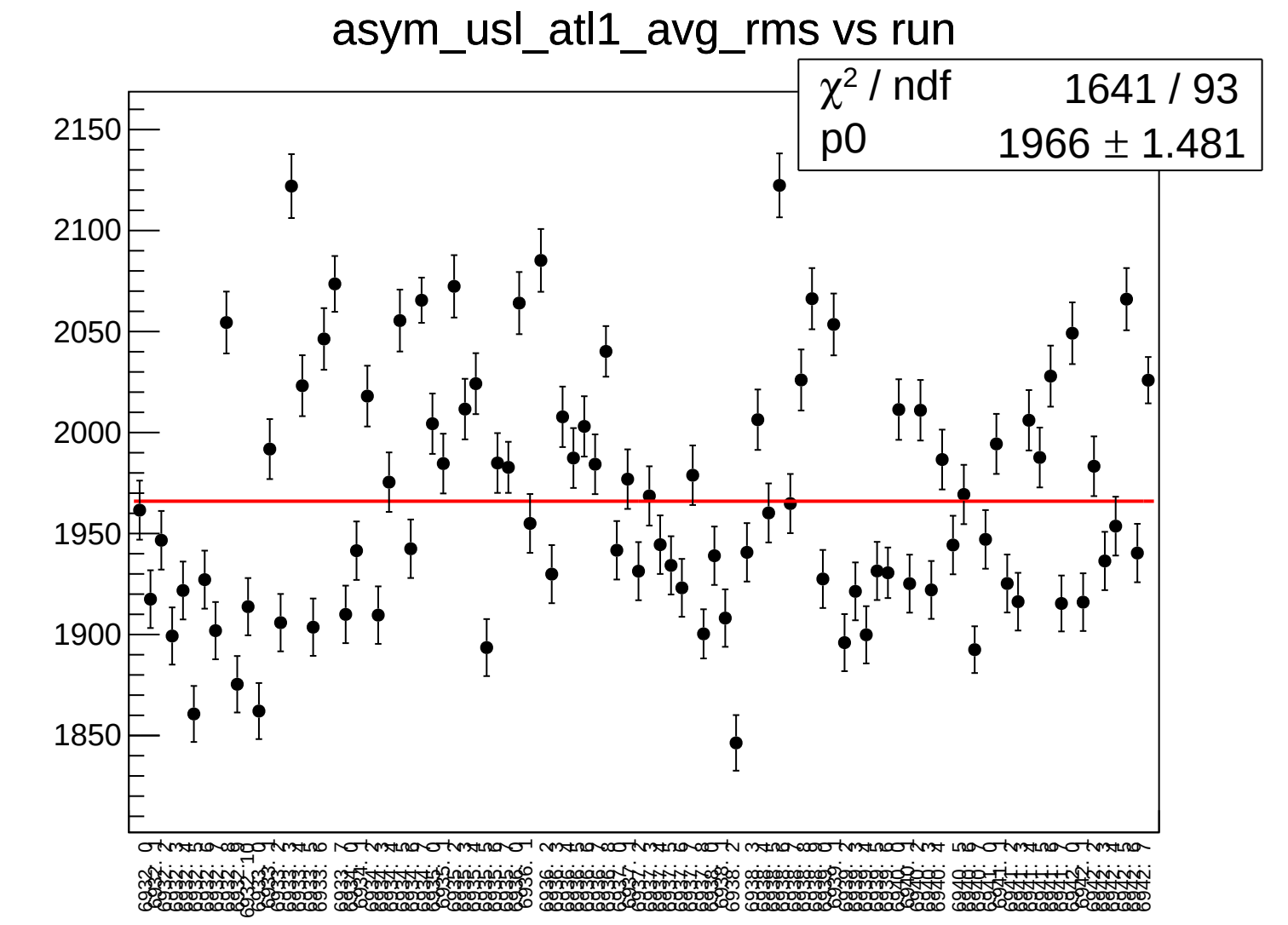

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.18 / 93
p0 1506 ± 1346
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 435.4
Std Dev 0
2
1
0
−1
−2

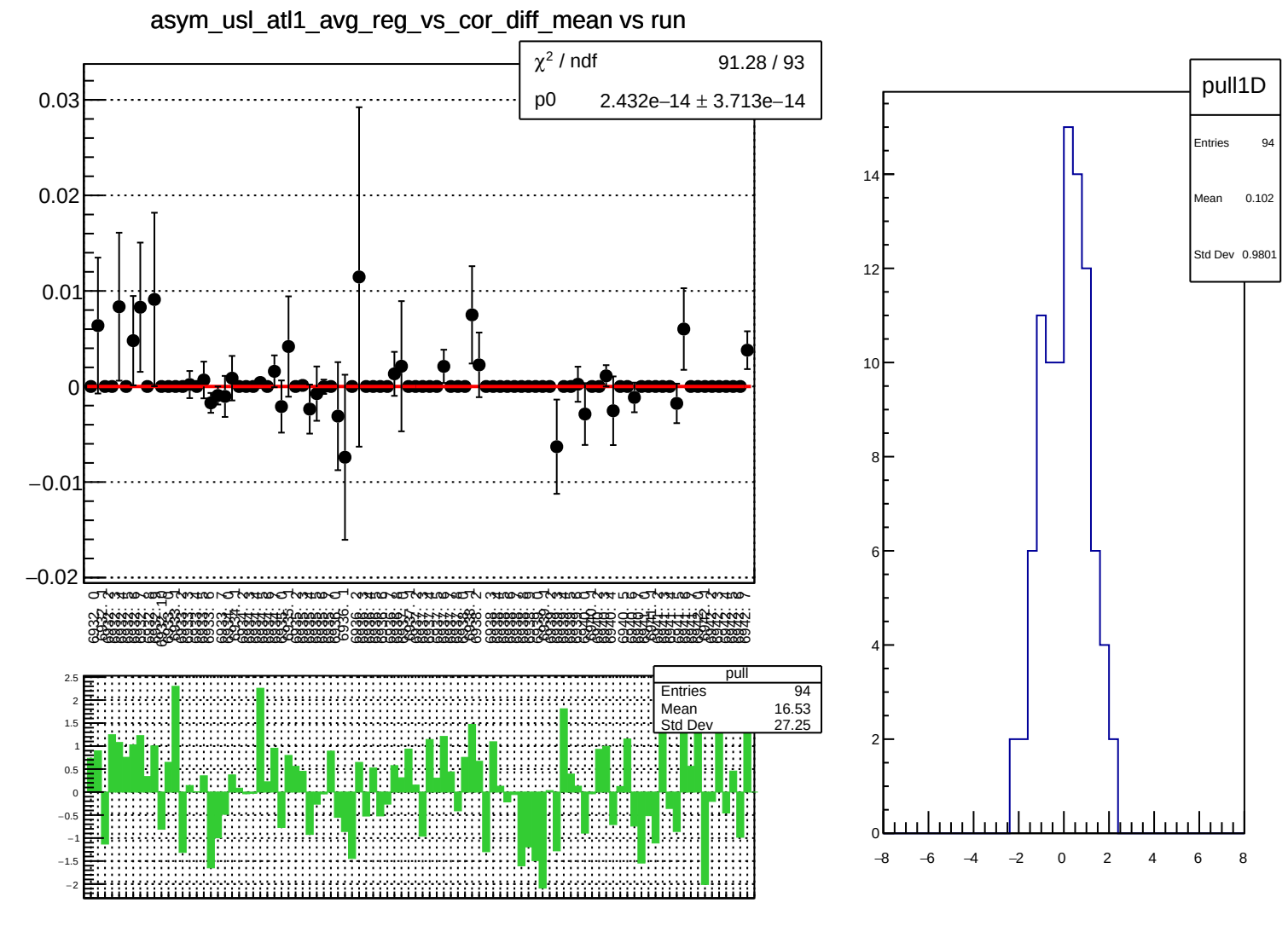

pull1D
Entries 94
Mean −0.008006
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

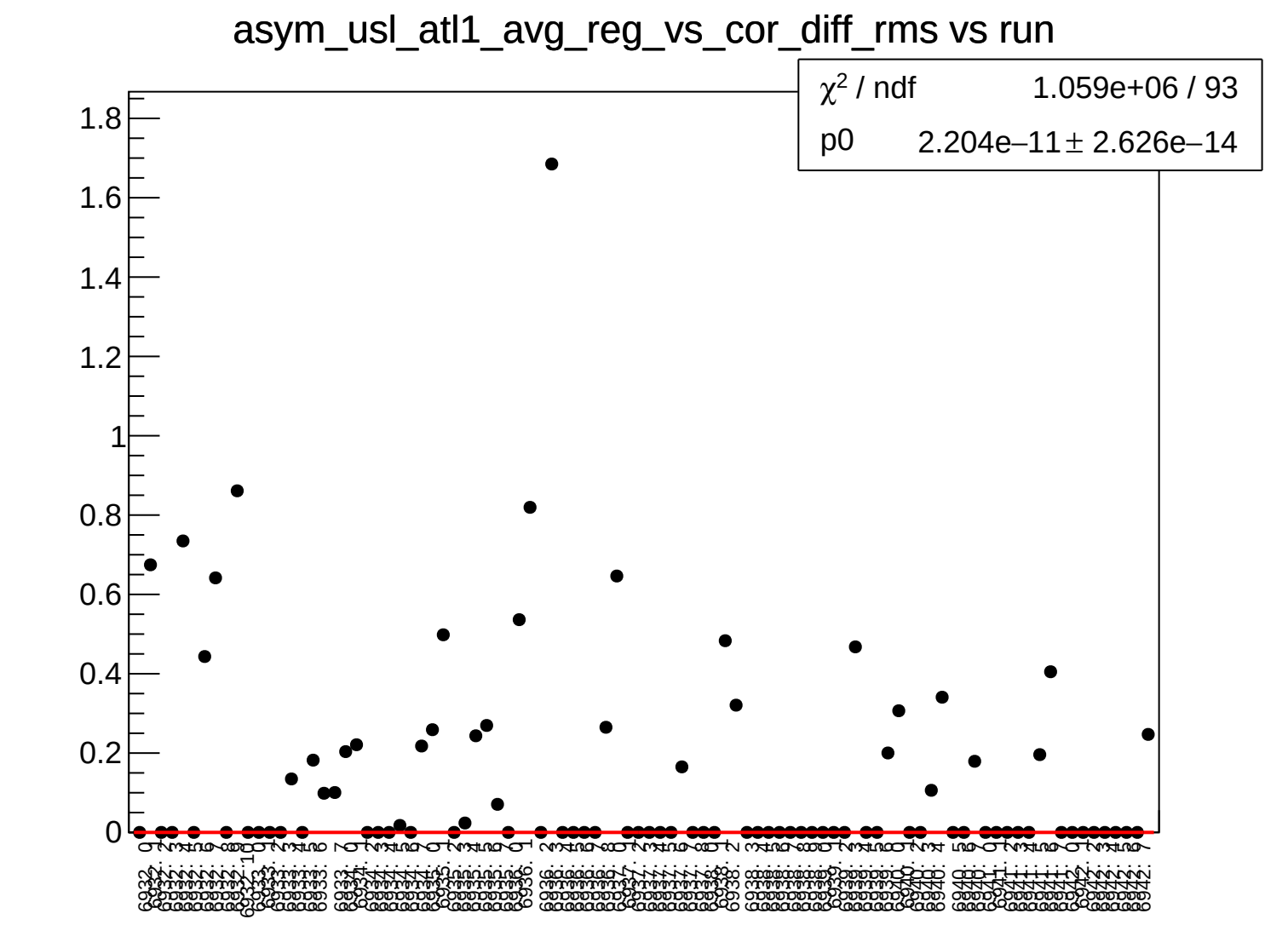

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5443 / 93
p0 1262 ± 0.9519
1500
1450
1400
1350
1300
1250
1200
1150
1100

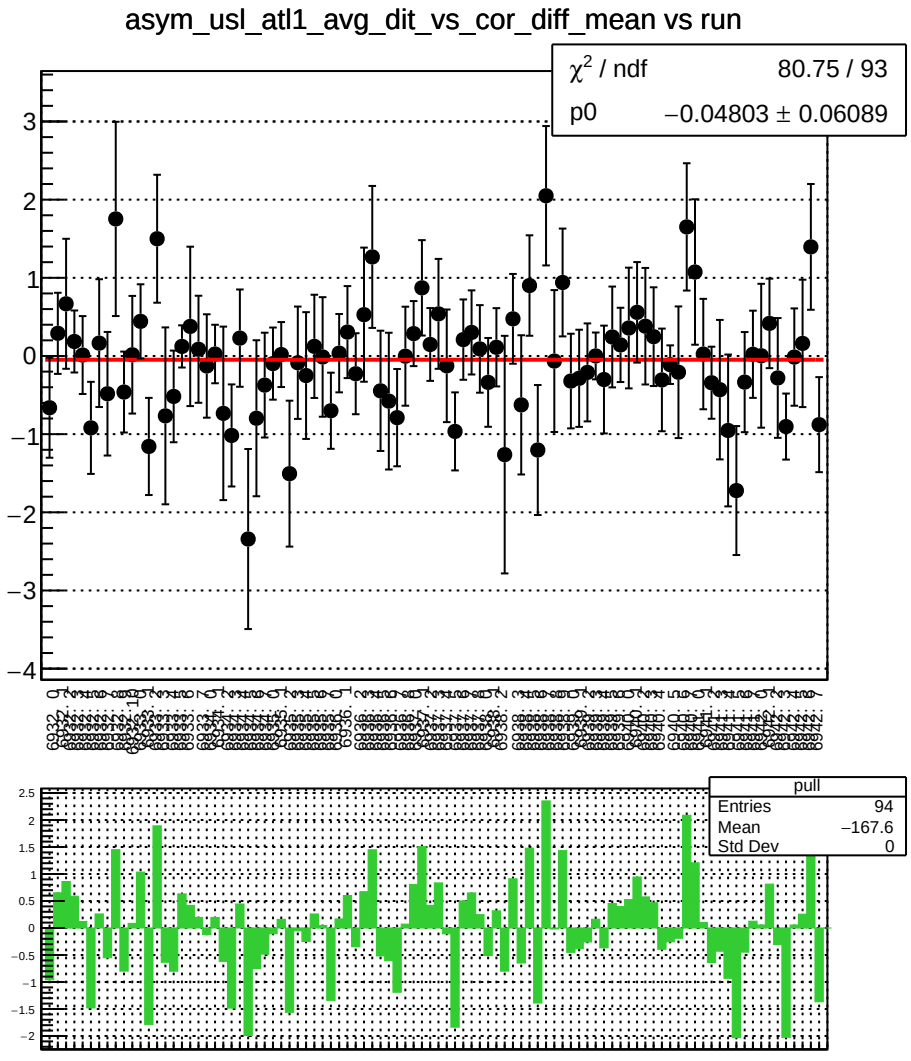

asym_usl_atl1_avg_mean vs run
χ² / ndf 81.06 / 93
p0 20.08 ± 2094
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1352
Std Dev 0
2
1
0
−1
−2
−3

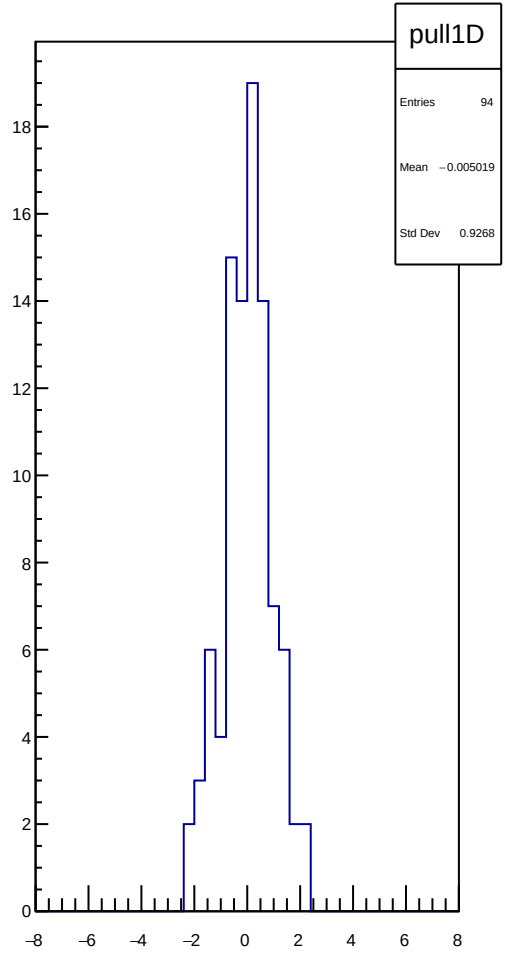

pull1D
Entries 94
Mean 0.001701
Std Dev 0.9286
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

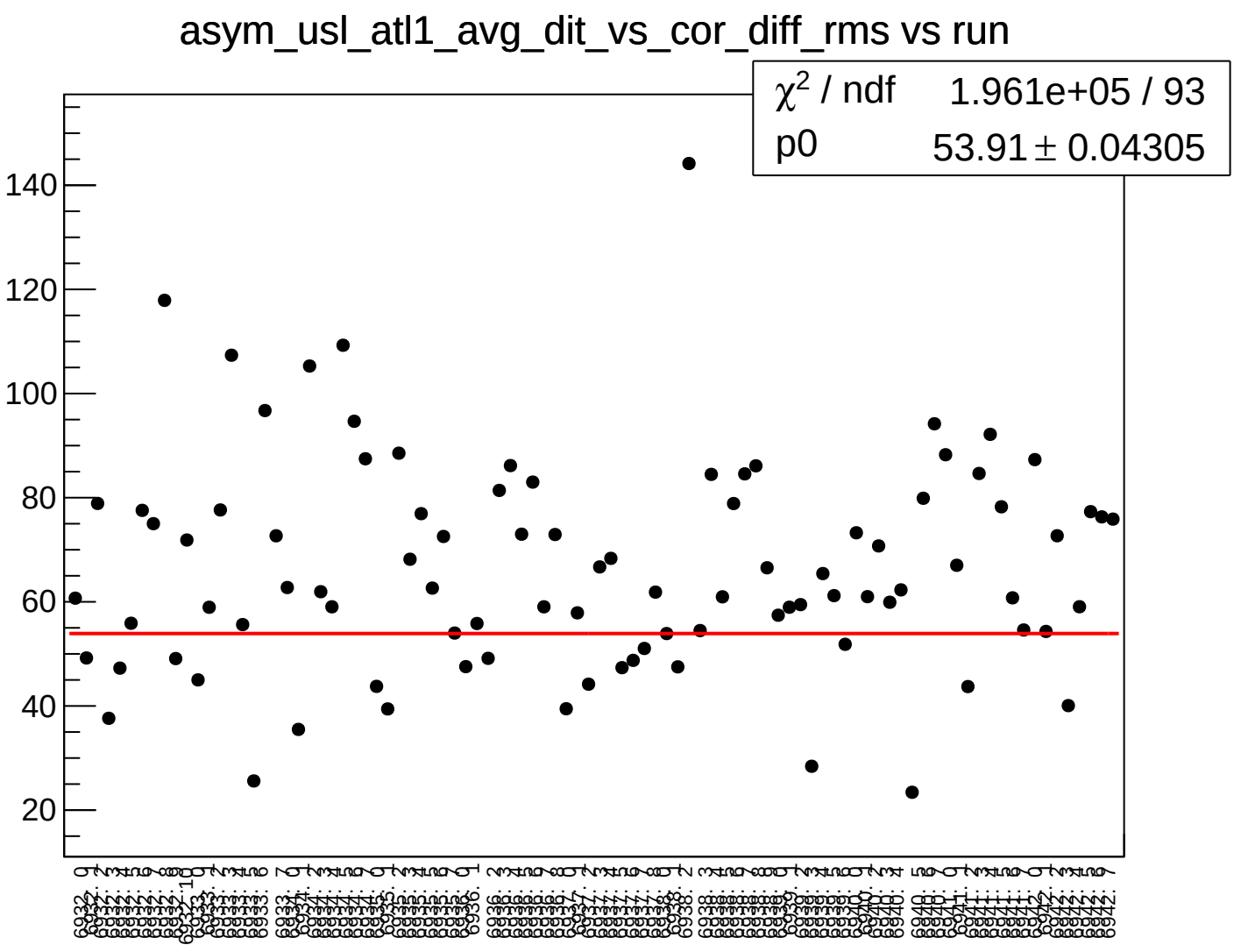

asym_usl_atl1_avg_rms vs run
χ² / ndf 1641 / 93
p0 1966 ± 1.481
2150
2100
2050
2000
1950
1900
1850

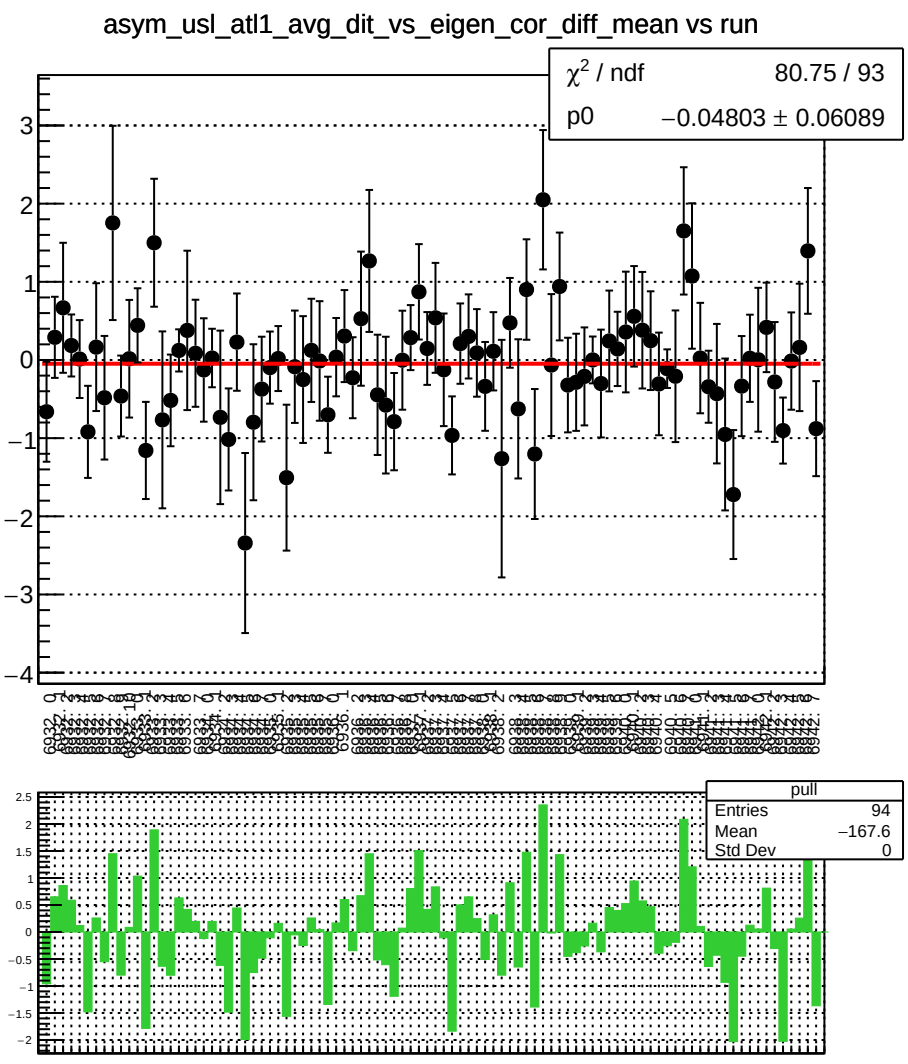

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.28 / 93
p0 2.432e−14 ± 3.713e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 16.53
Std Dev 27.25
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.102
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

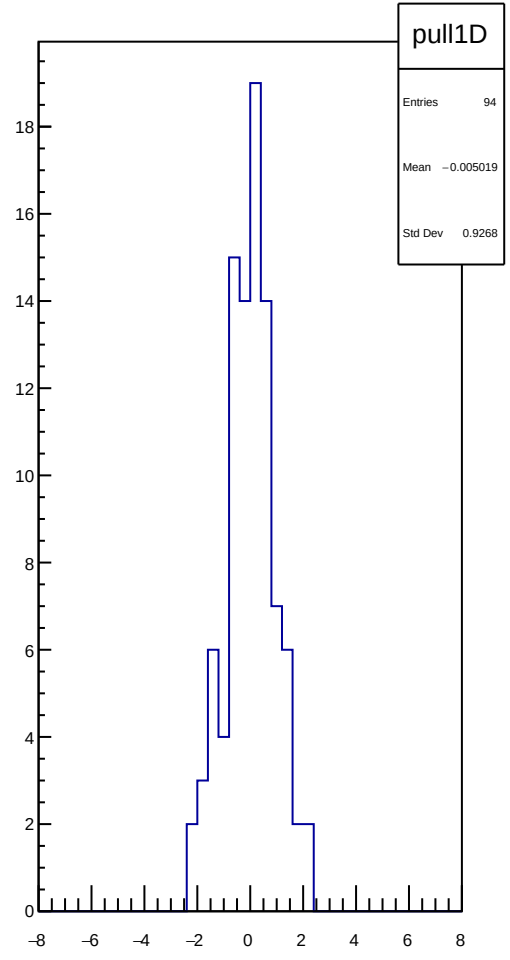

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.059e+06 / 93
p0 2.204e−11 ± 2.626e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

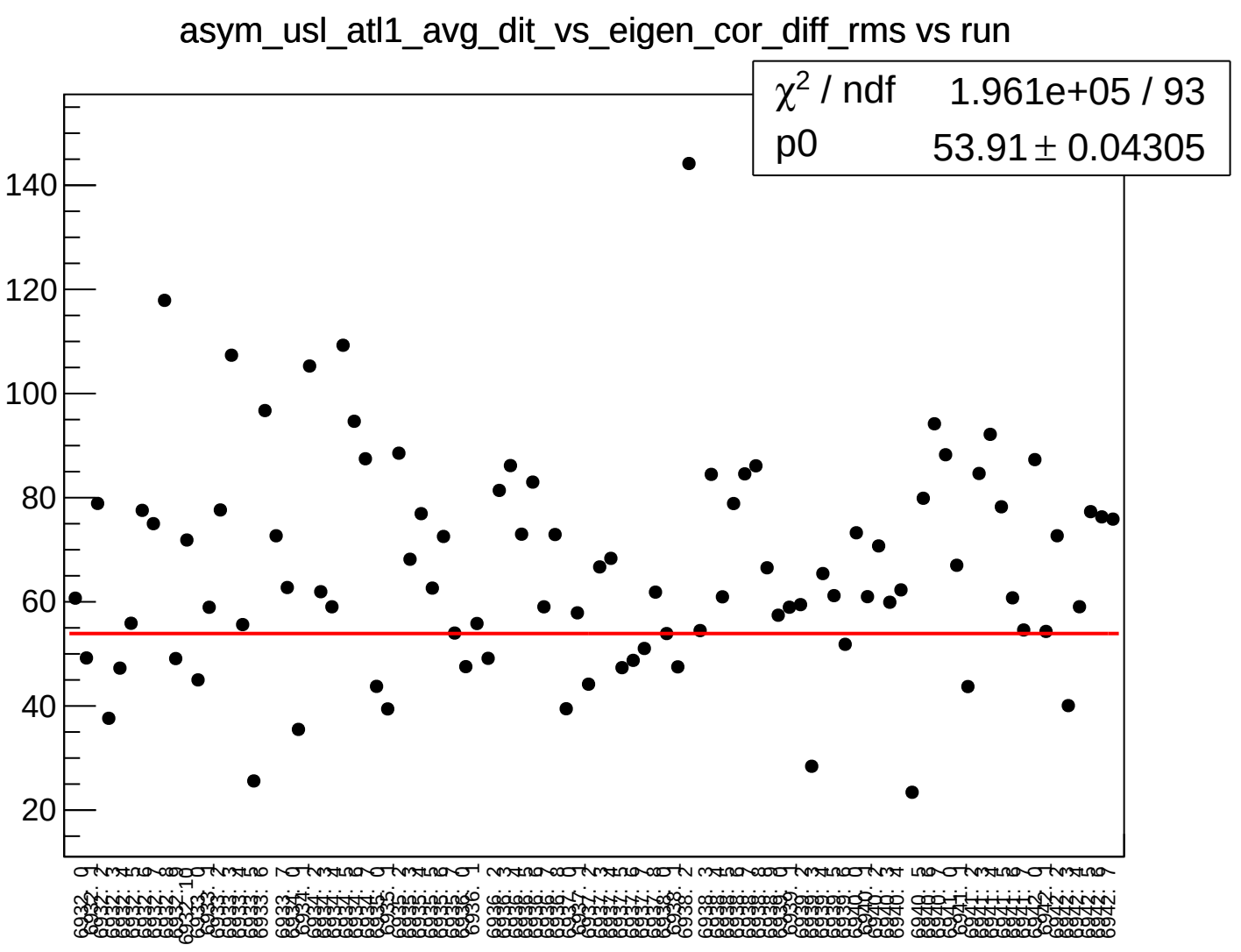

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 93
p0 −0.04803 ± 0.06089
pull
Entries 94
Mean −167.6
Std Dev 0

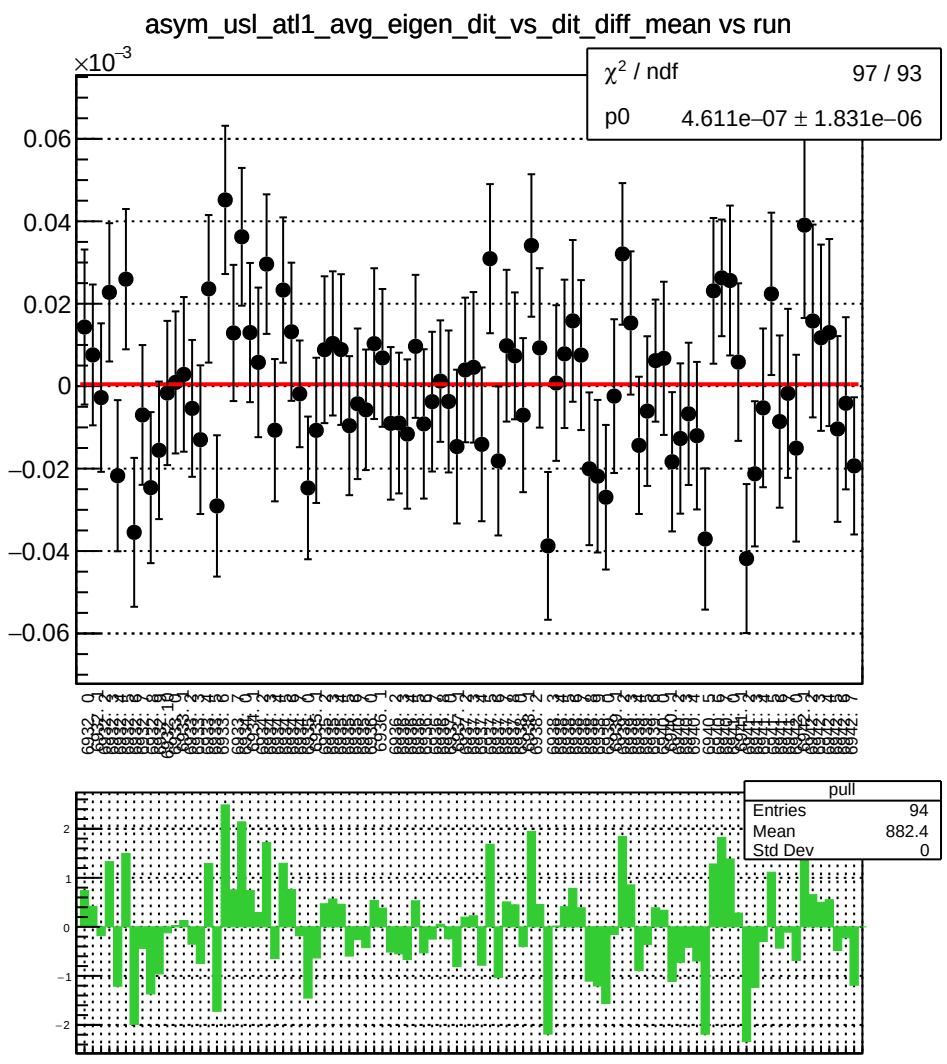

pull1D
Entries 94
Mean −0.005019
Std Dev 0.9268

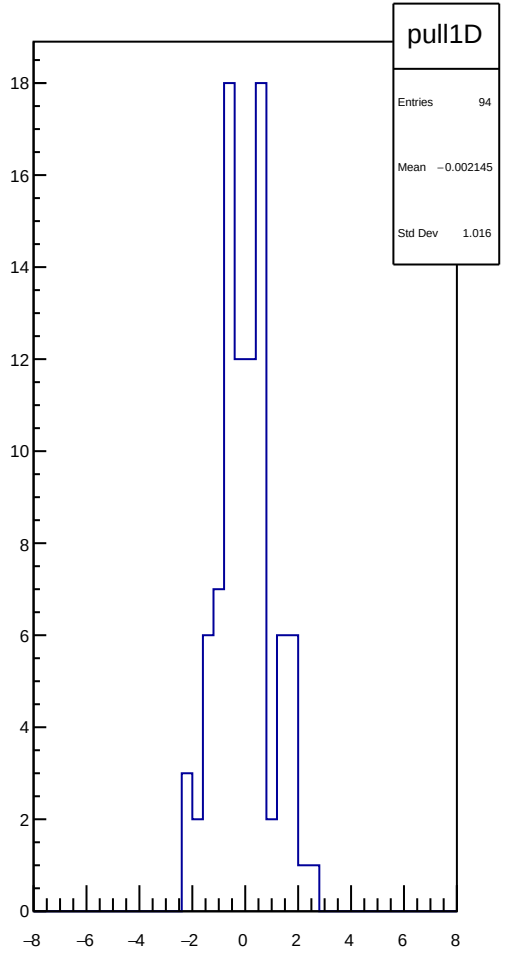

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.961e+05 / 93
p0 53.91 ± 0.04305
140
120
100
80
60
40
20

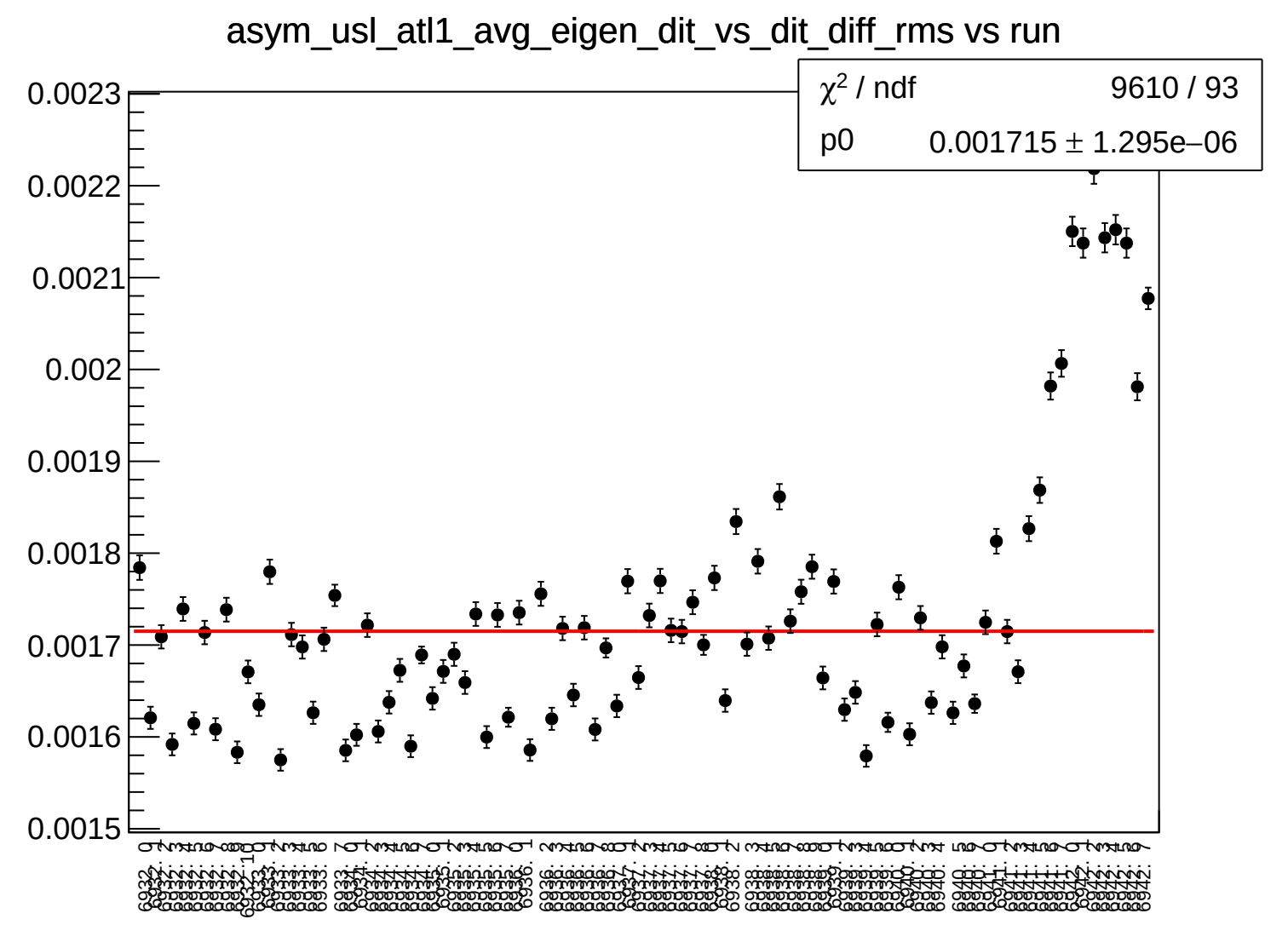

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 93
p0 −0.04803 ± 0.06089
pull
Entries 94
Mean −167.6
Std Dev 0

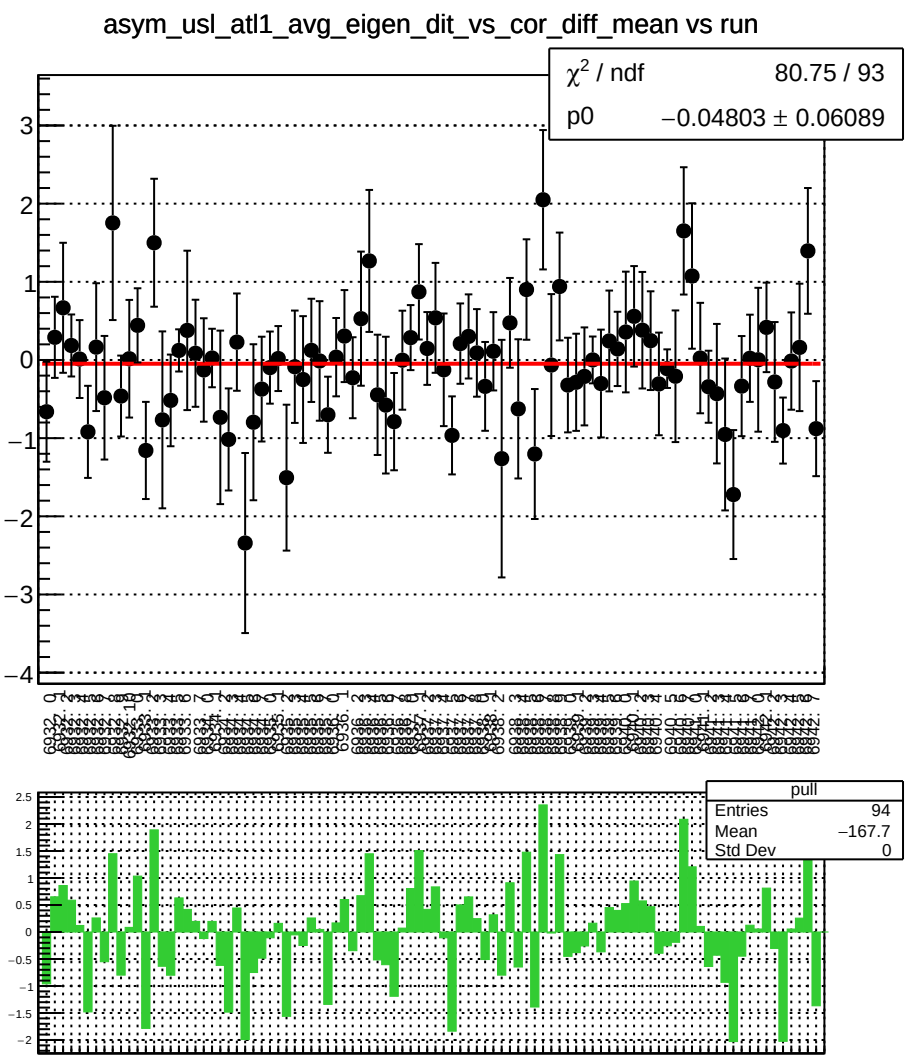

pull1D
Entries 94
Mean −0.005019
Std Dev 0.9268

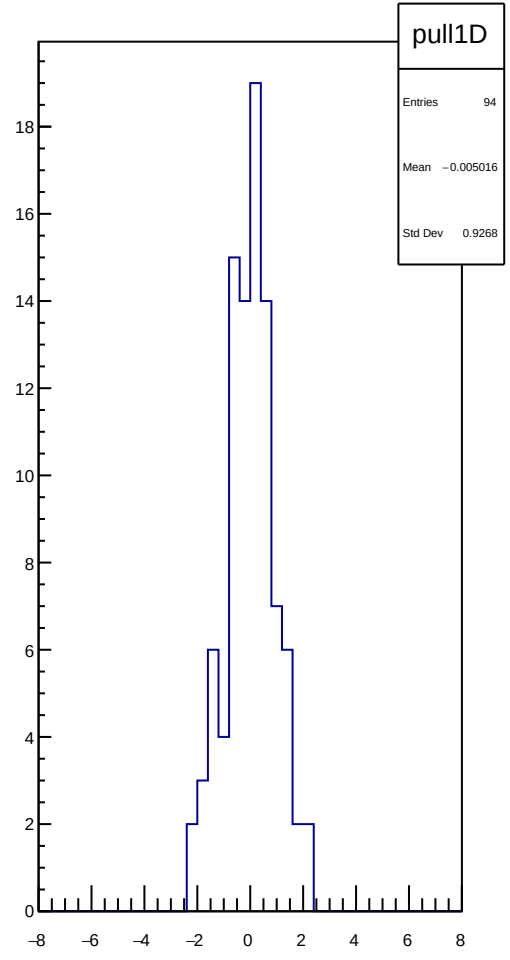

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.961e+05 / 93
p0 53.91 ± 0.04305
140
120
100
80
60
40
20

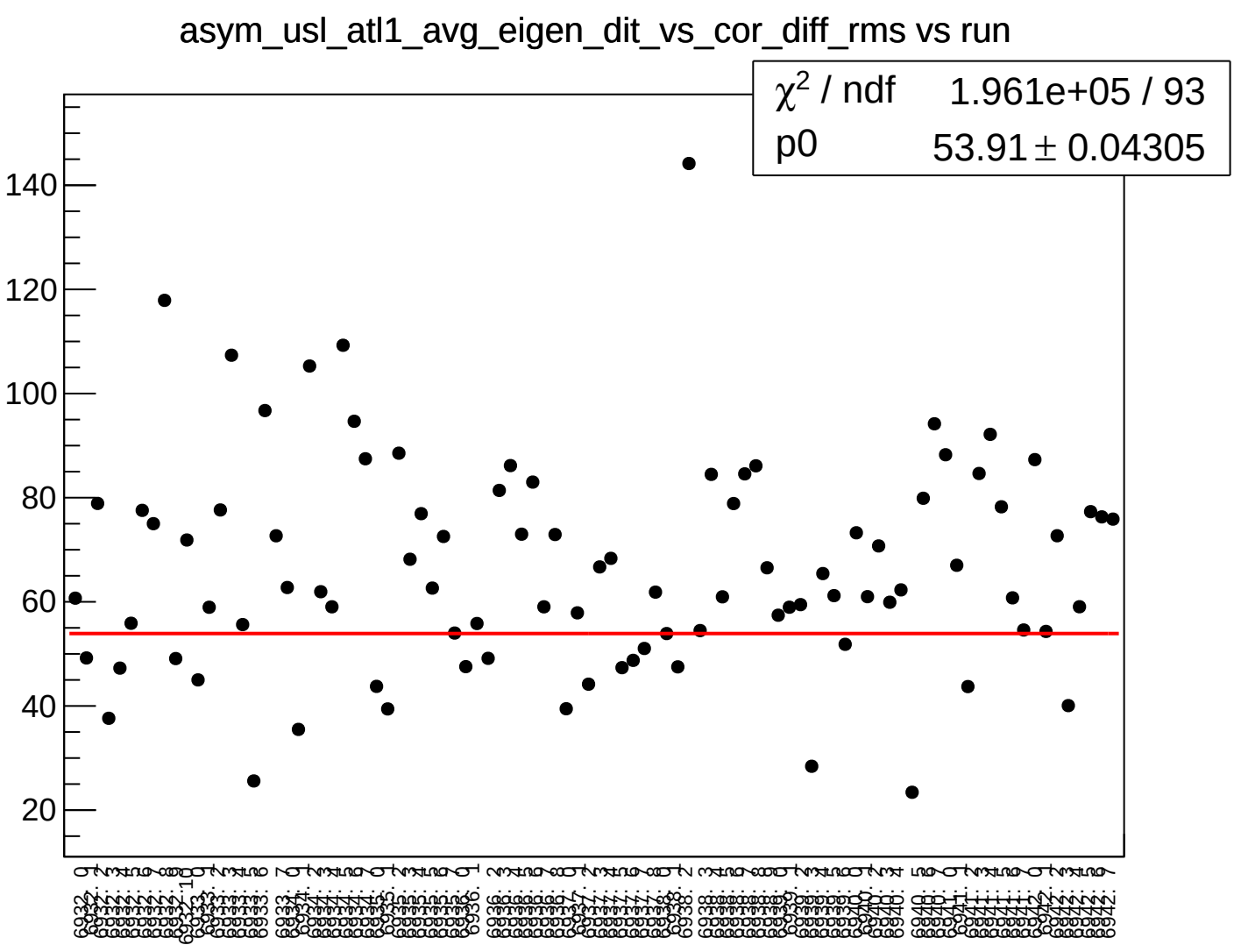

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97 / 93
p0 4.611e−07 ± 1.831e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 882.4
Std Dev 0
2
1
0
−1
−2

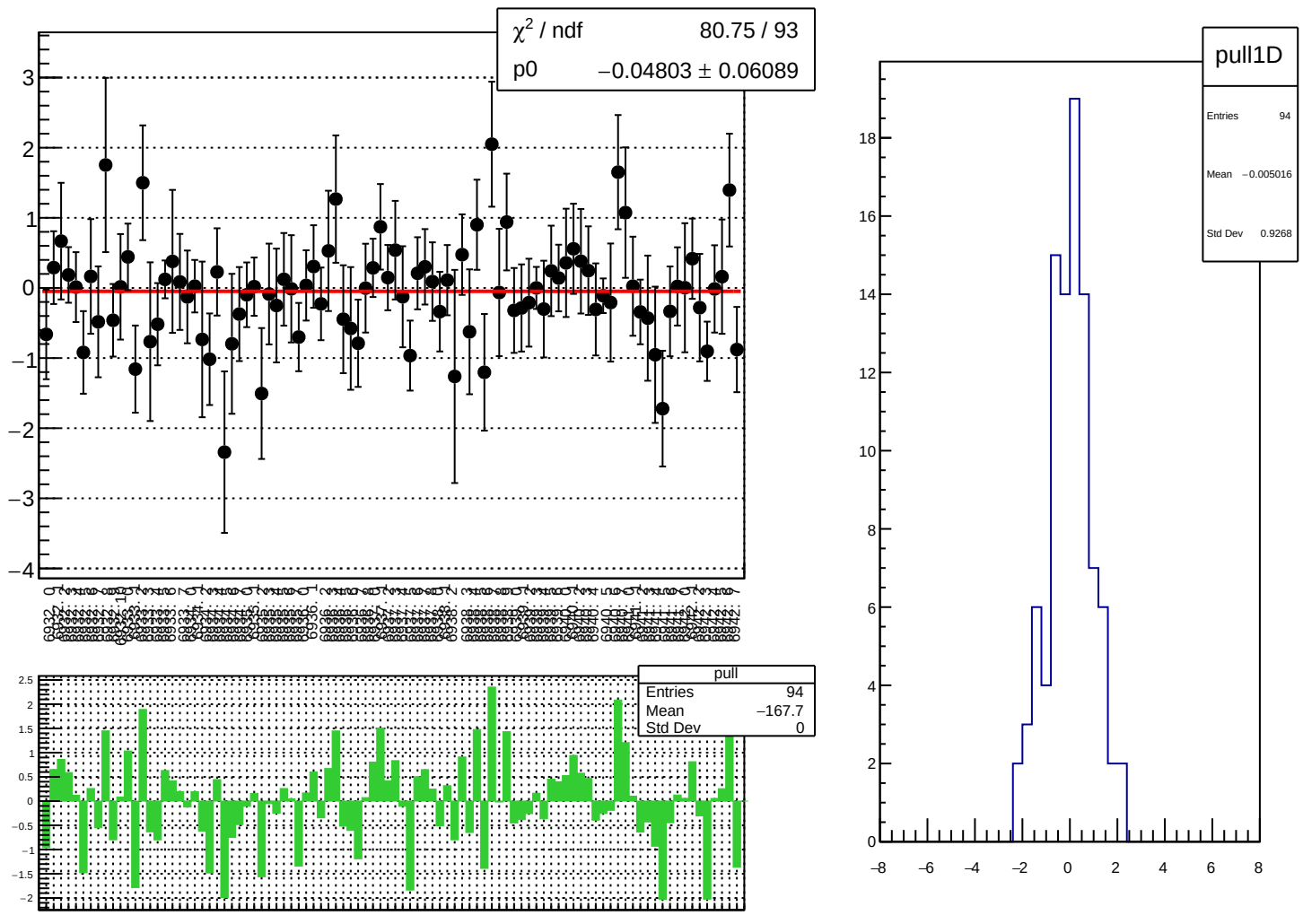

pull1D
Entries 94
Mean −0.002145
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

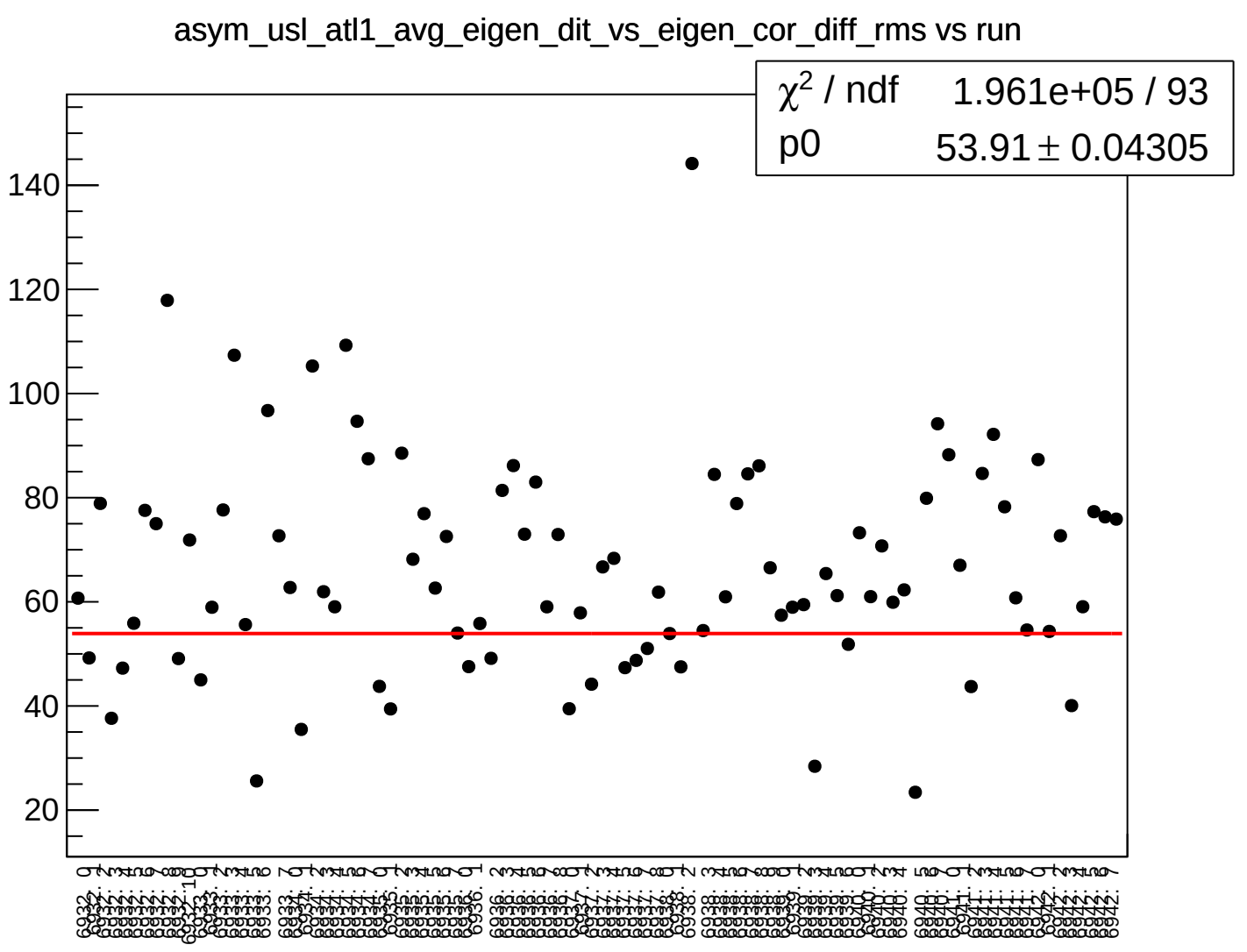

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9610 / 93
p0 0.001715 ± 1.295e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

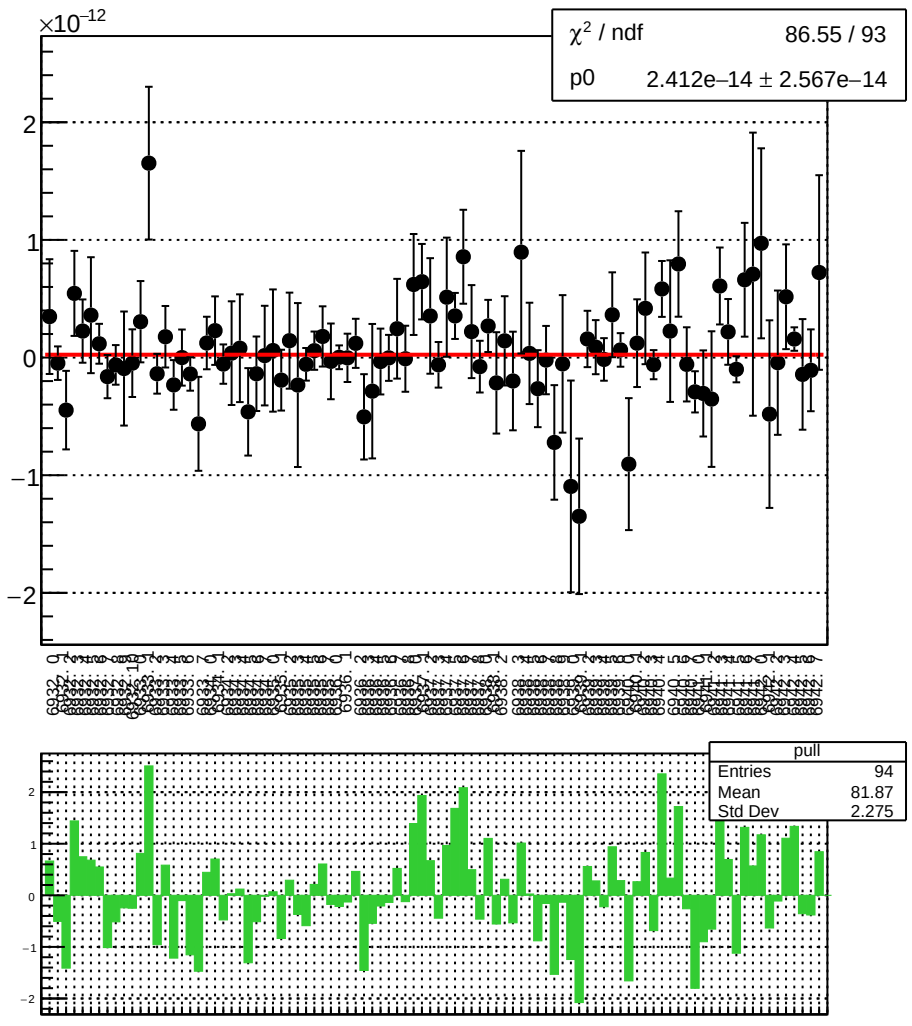

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.75 / 93
p0 −0.04803 ± 0.06089
pull
Entries 94
Mean −167.7
Std Dev 0

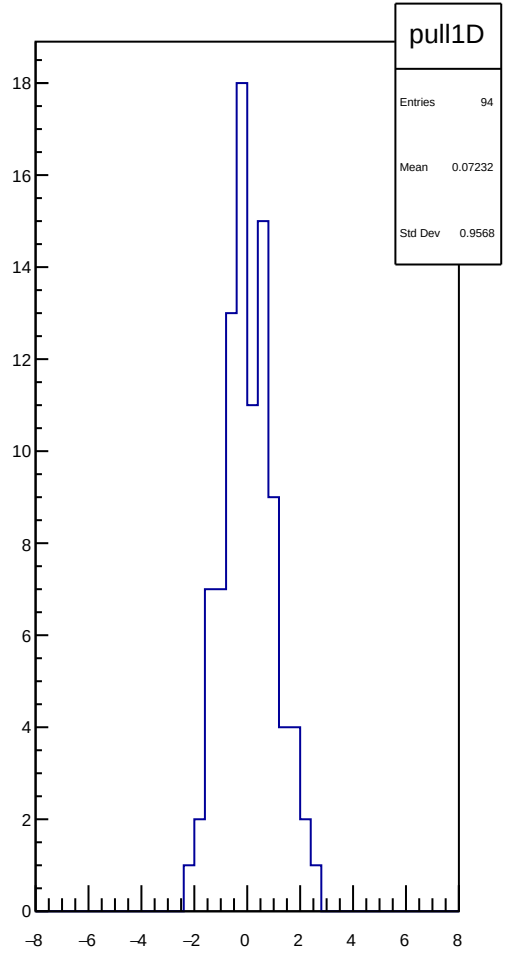

pull1D
Entries 94
Mean −0.005016
Std Dev 0.9268

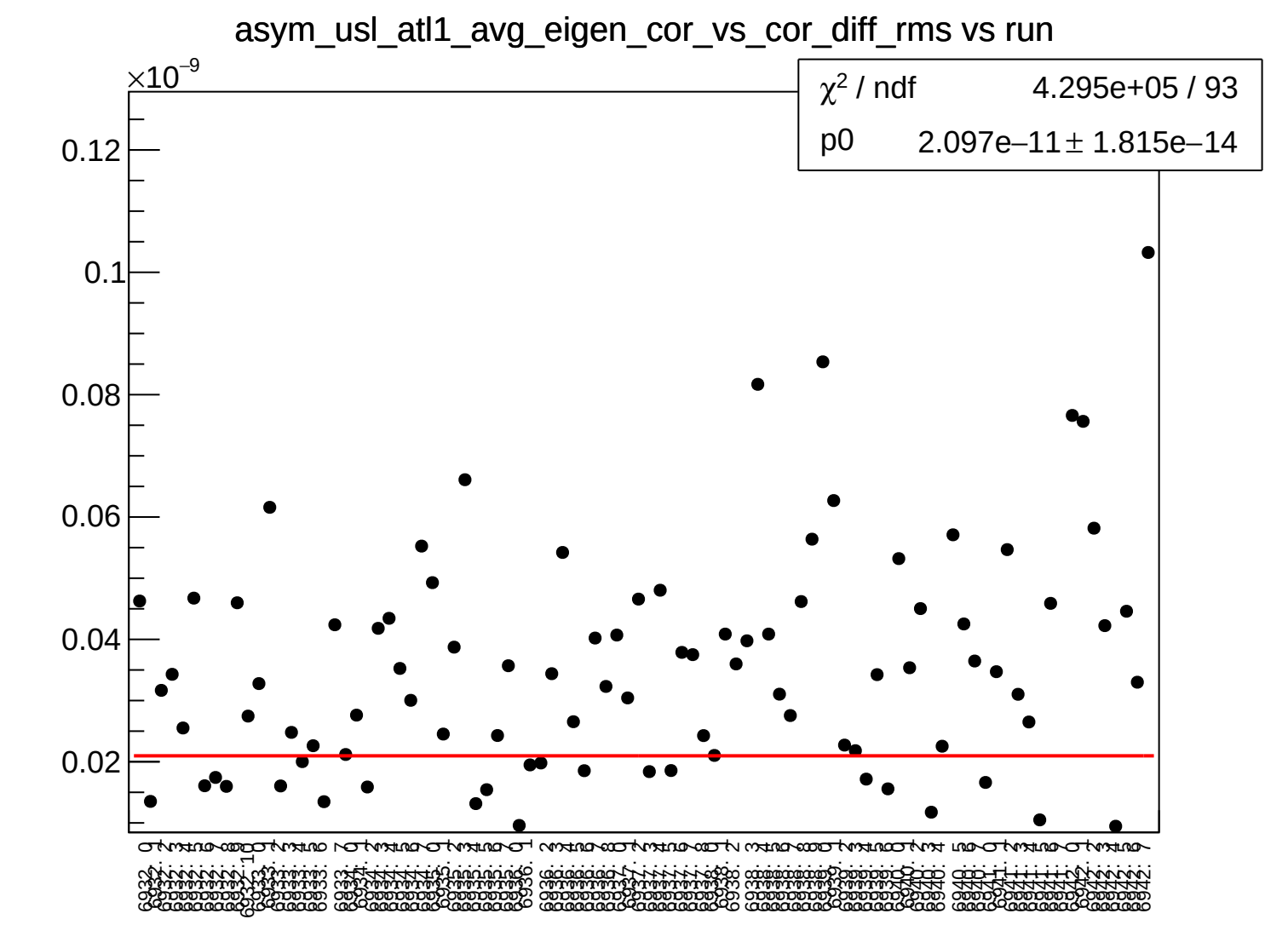

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.961e+05 / 93
p0 53.91 ± 0.04305
140
120
100
80
60
40
20

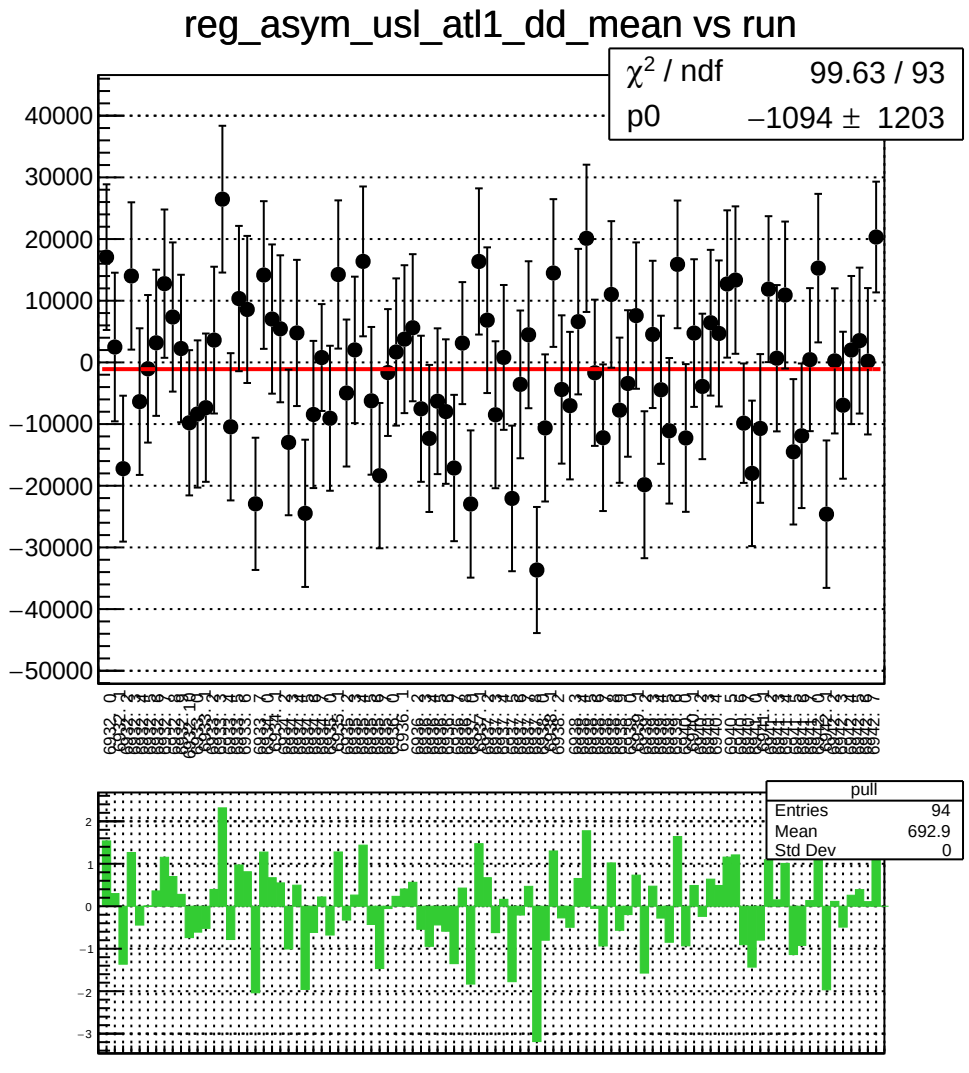

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.75 / 93
p0 −0.04803 ± 0.06089
pull
Entries 94
Mean −167.7
Std Dev 0
pull1D
Entries 94
Mean −0.005016
Std Dev 0.9268

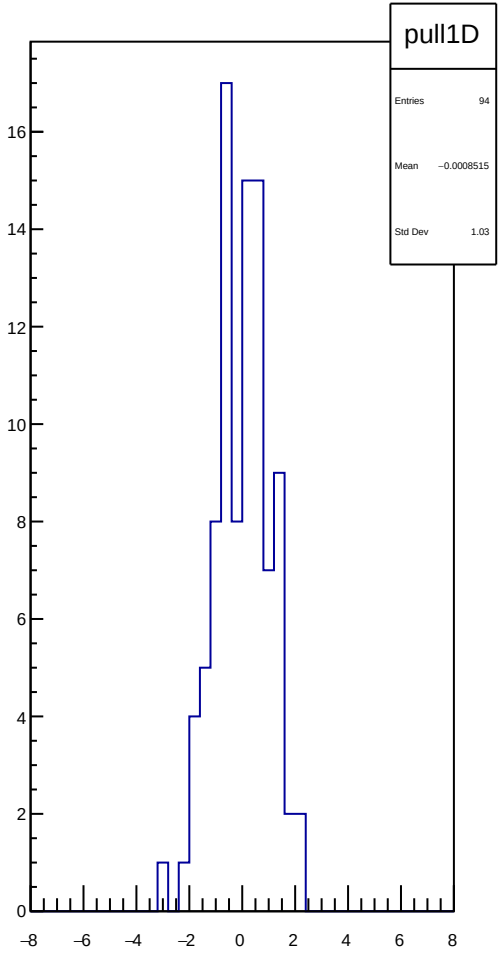

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.961e+05 / 93
p0 53.91 ± 0.04305
140
120
100
80
60
40
20

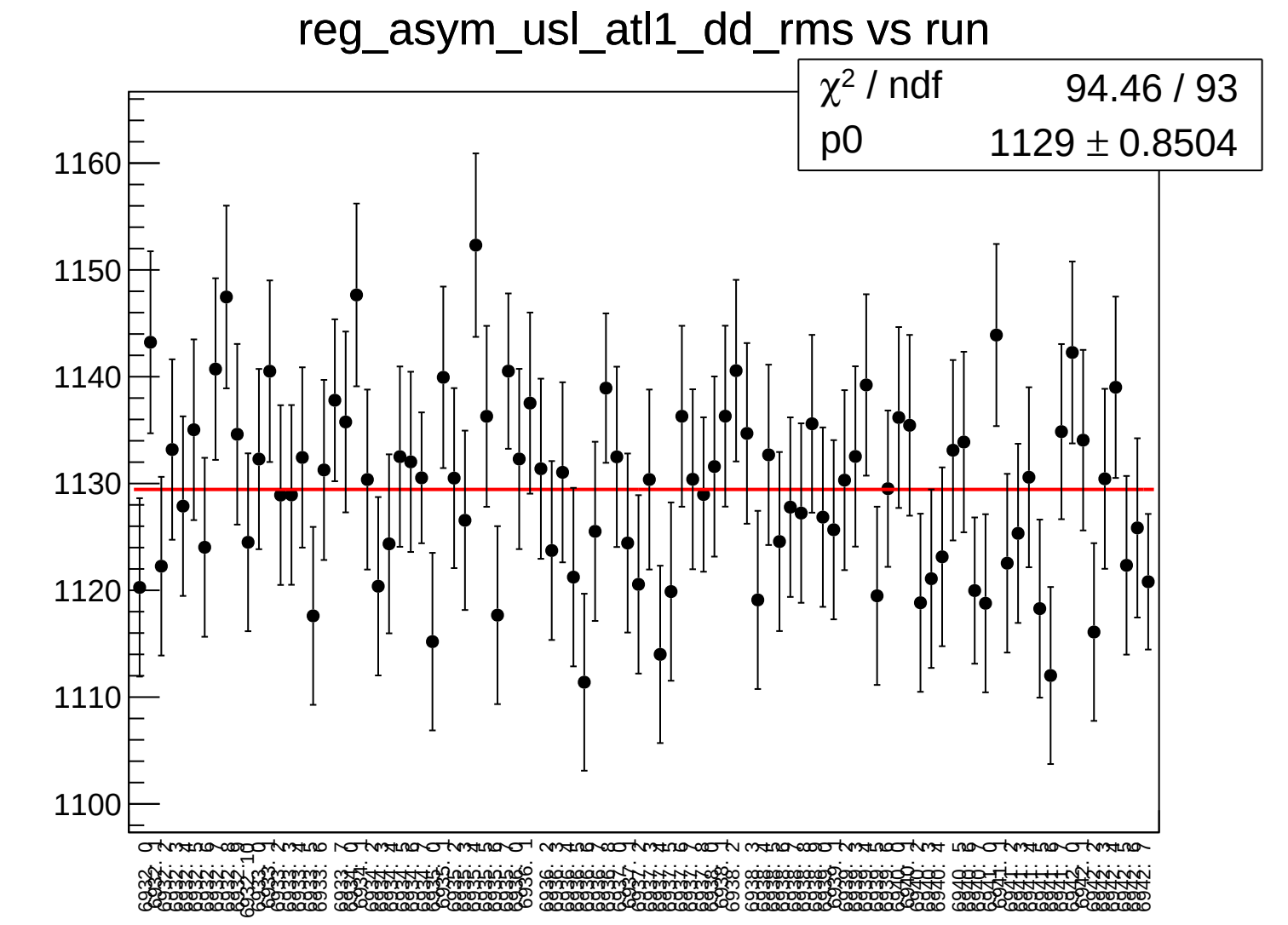

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.55 / 93
p0 2.412e−14 ± 2.567e−14
pull
Entries 94
Mean 81.87
Std Dev 2.275

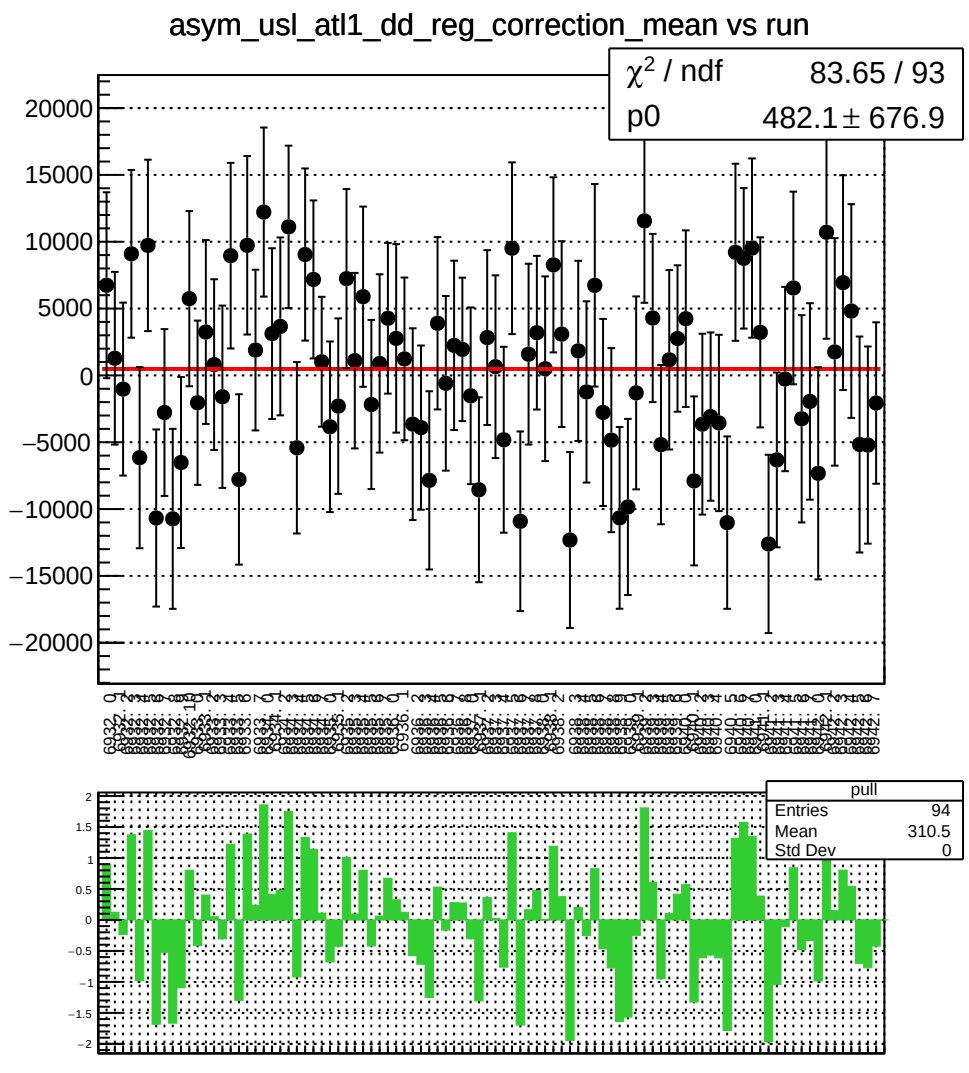

pull1D
Entries 94
Mean 0.07232
Std Dev 0.9568

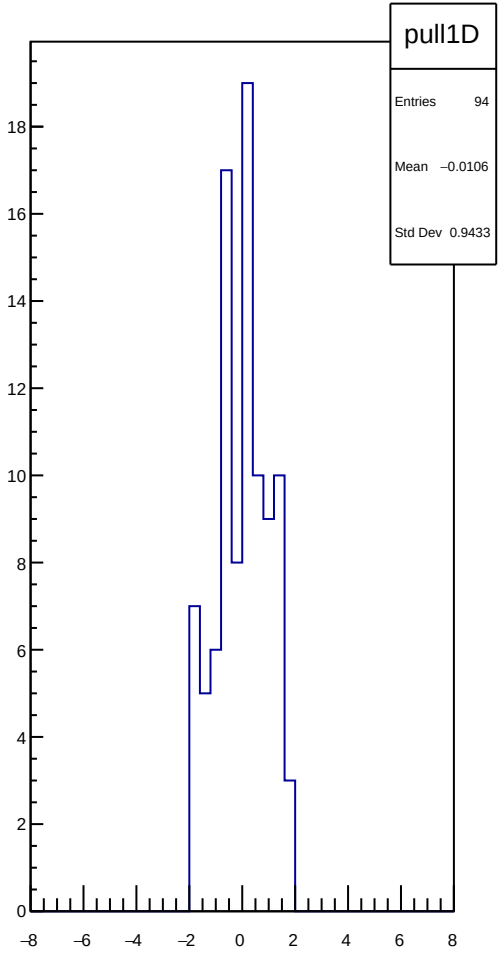

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.295e+05 / 93
p0 2.097e−11 ± 1.815e−14
0.12
0.1
0.08
0.06
0.04
0.02

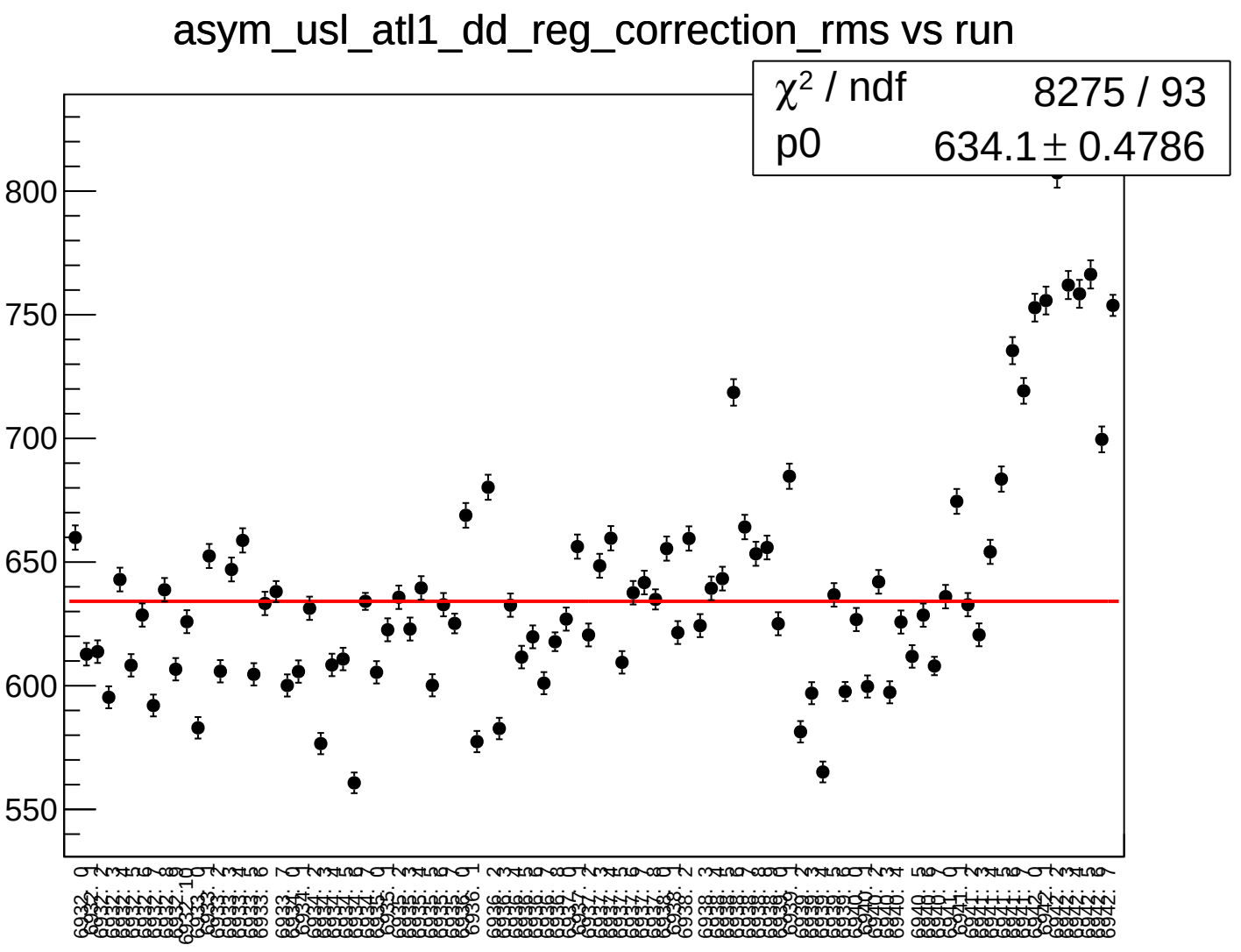

reg_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 99.63 / 93
p0 −1094 ± 1203
pull
Entries 94
Mean 692.9
Std Dev 0

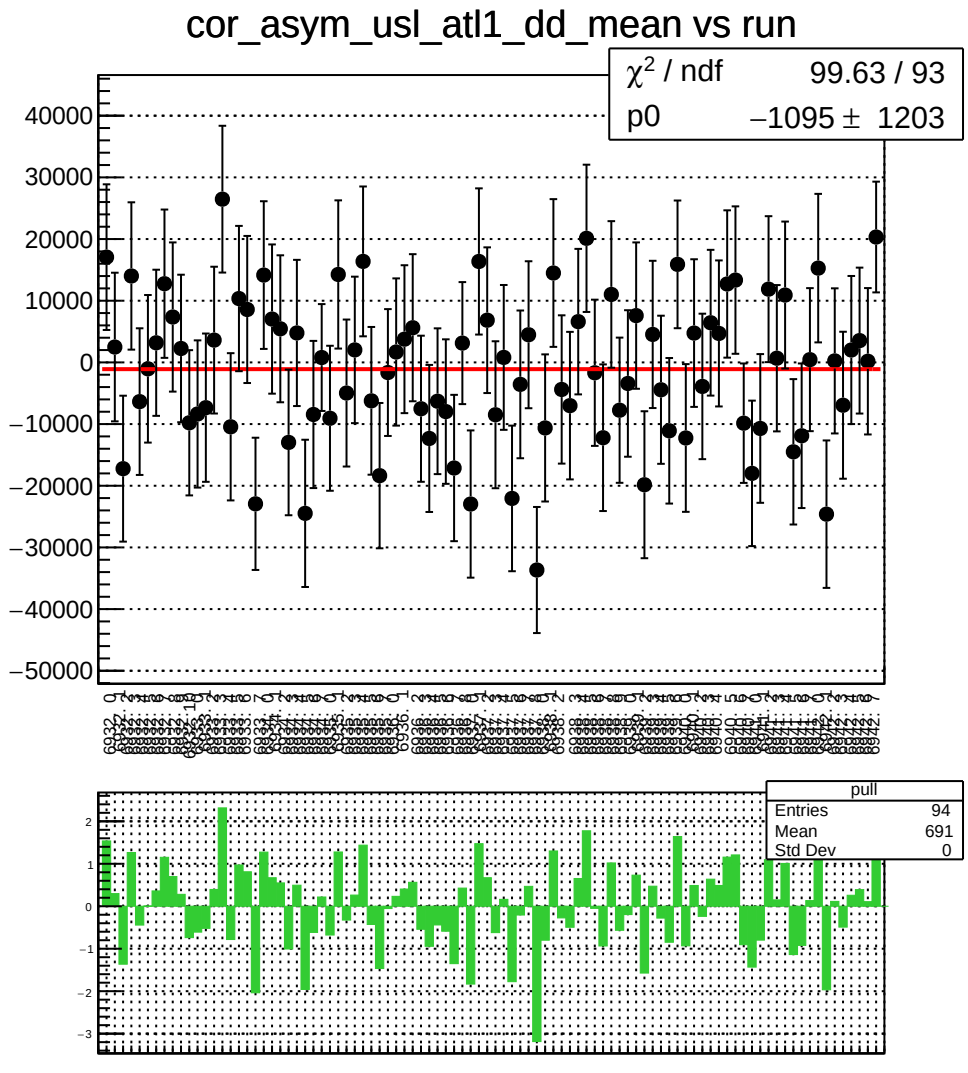

pull1D
Entries 94
Mean −0.0008515
Std Dev 1.03

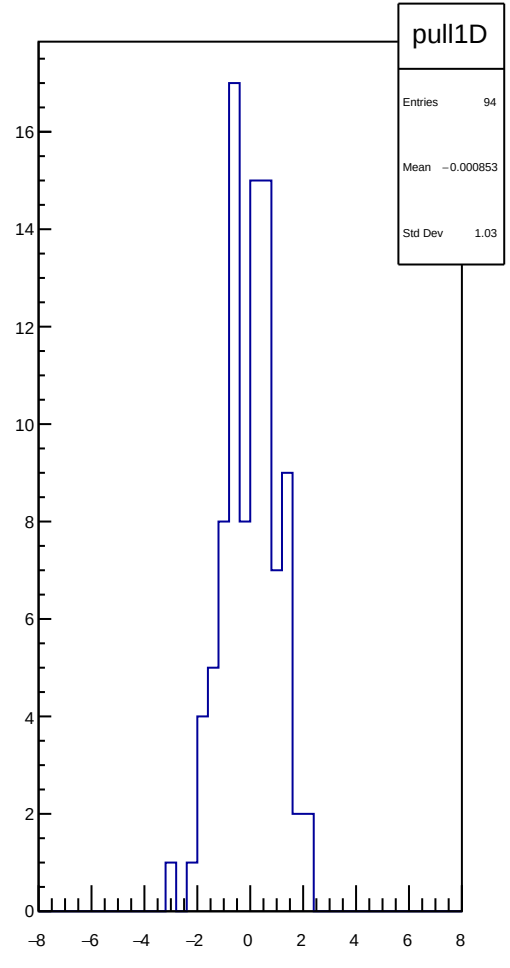

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 94.46 / 93
p0 1129 ± 0.8504
1160
1150
1140
1130
1120
1110
1100

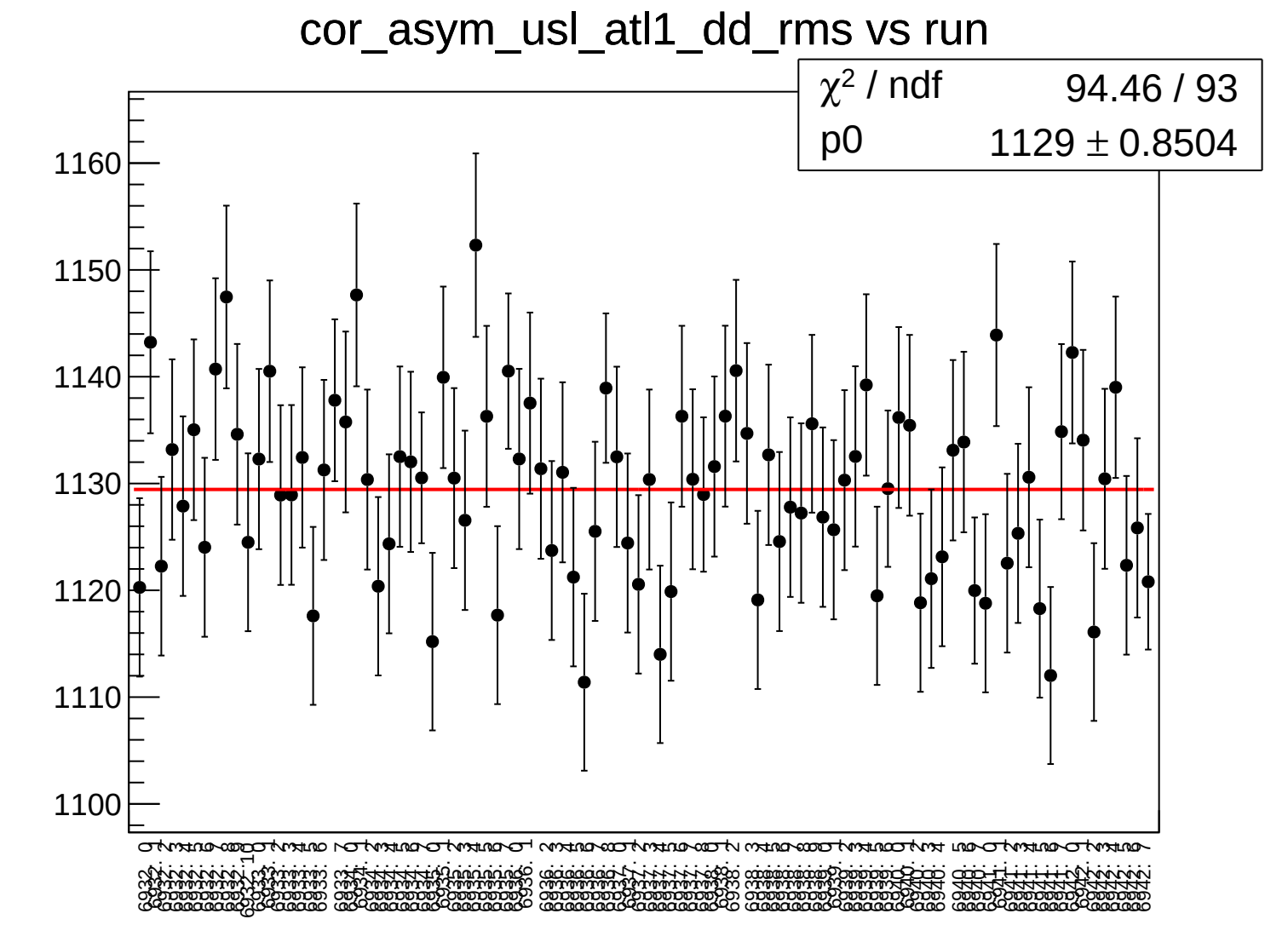

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 83.65 / 93
p0 482.1 ± 676.9
pull
Entries 94
Mean 310.5
Std Dev 0

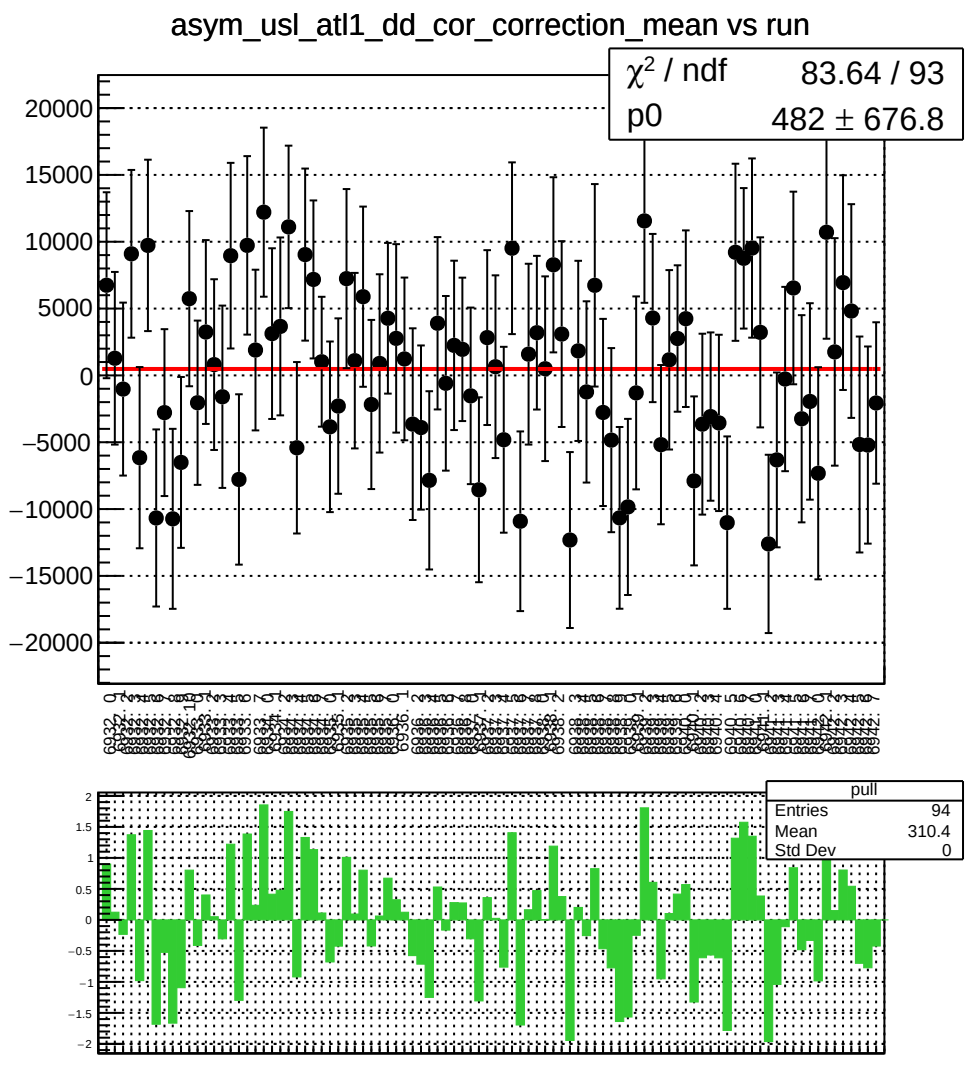

pull1D
Entries 94
Mean −0.0106
Std Dev 0.9433

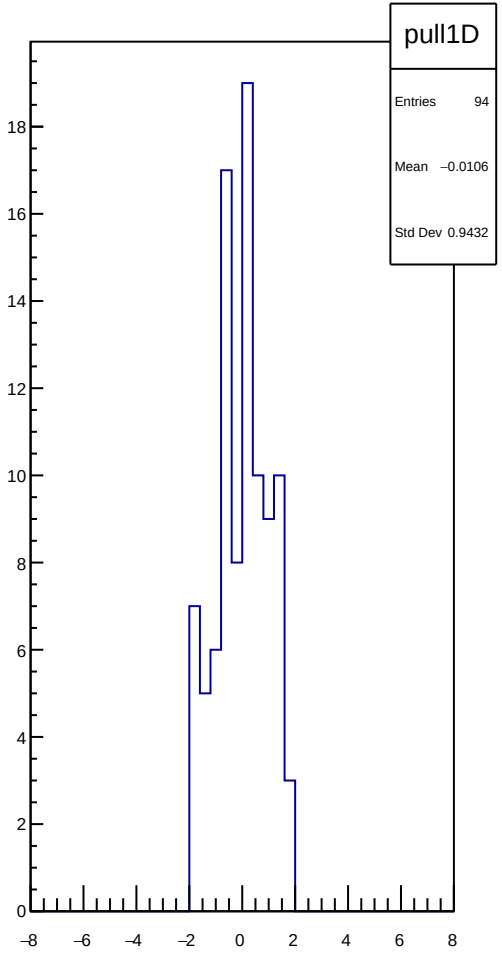

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 8275 / 93
p0 634.1 ± 0.4786
800
750
700
650
600
550

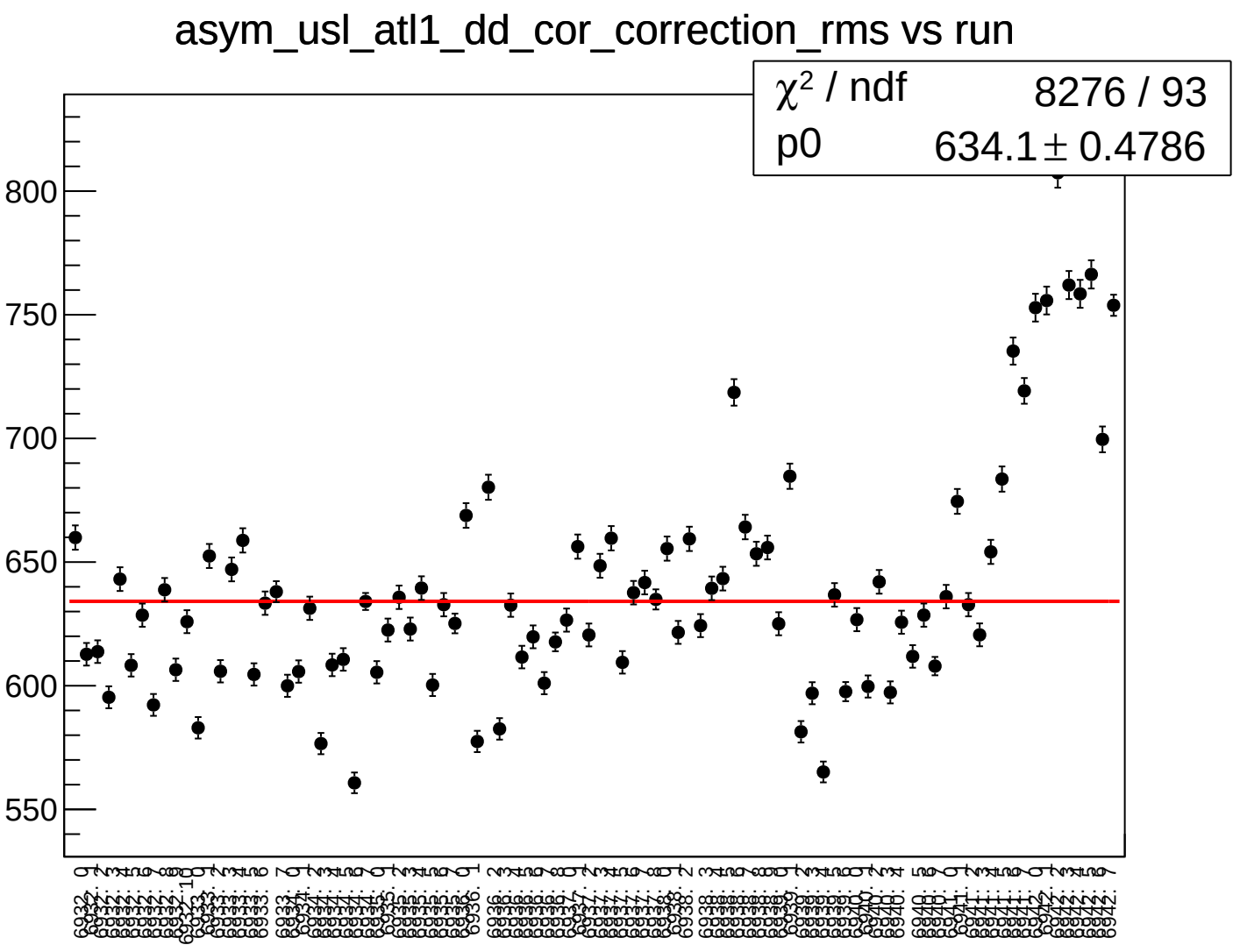

cor_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 99.63 / 93
p0 −1095 ± 1203
pull
Entries 94
Mean 691
Std Dev 0

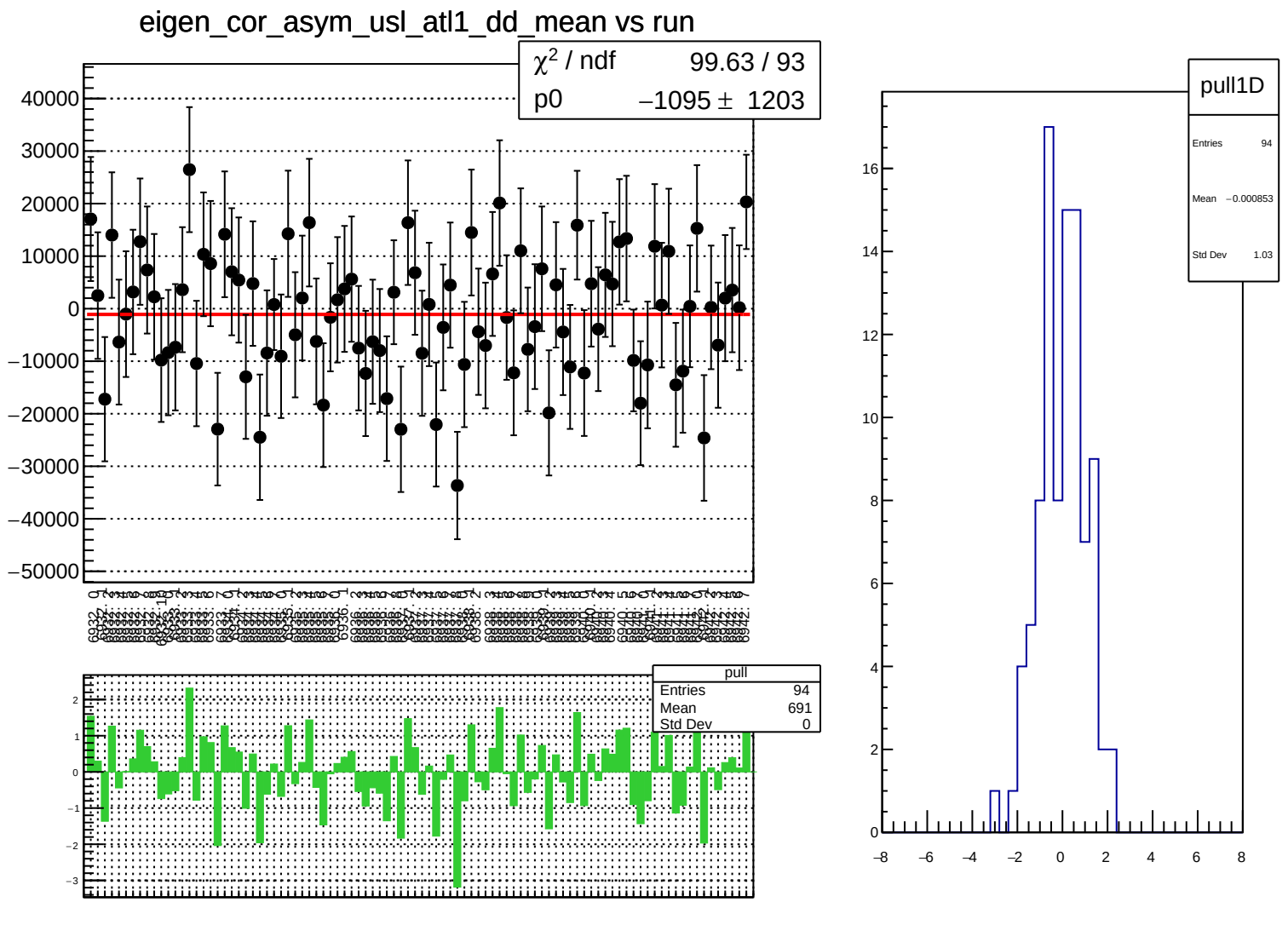

pull1D
Entries 94
Mean −0.000853
Std Dev 1.03

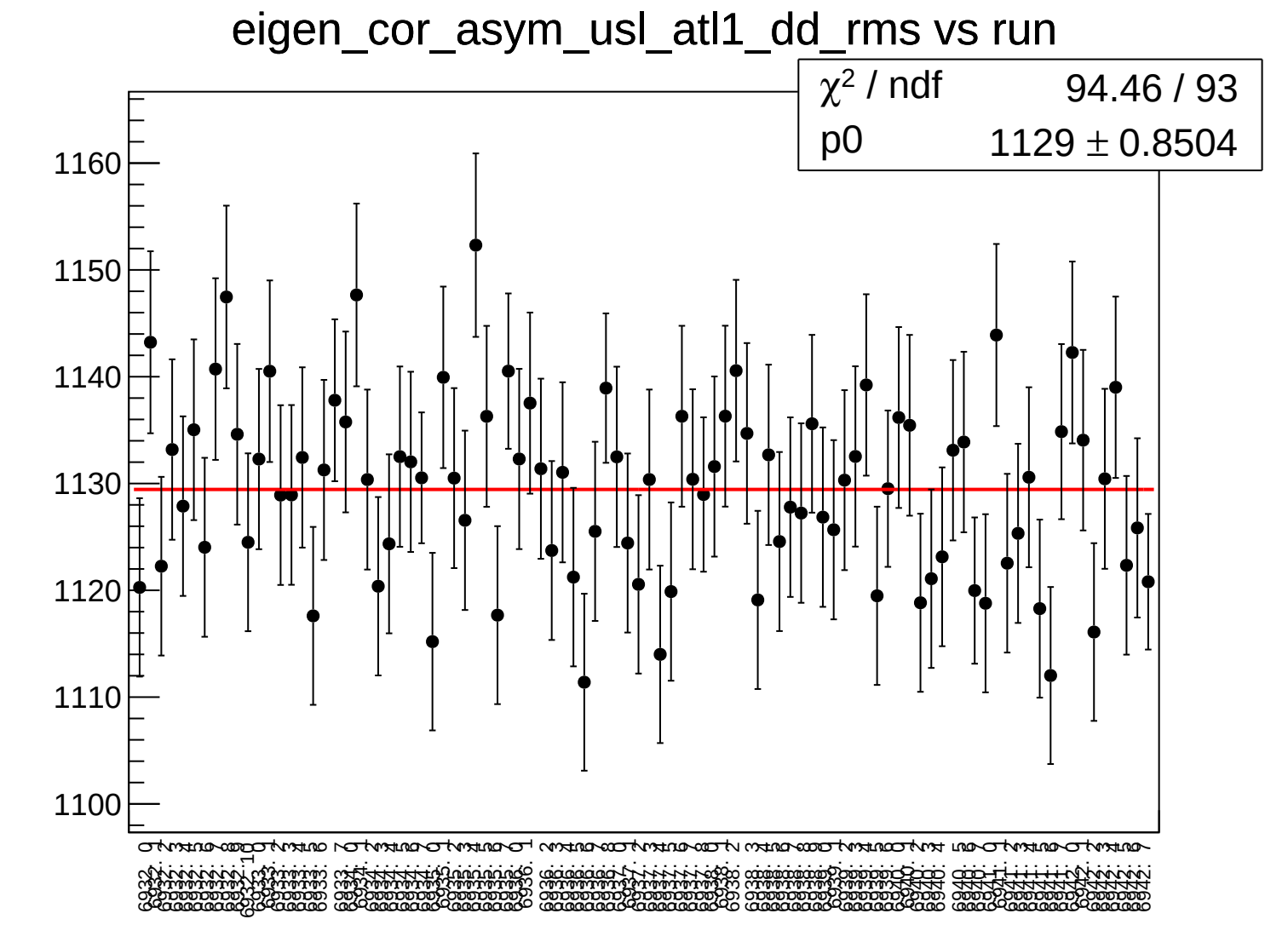

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 94.46 / 93
p0 1129 ± 0.8504
1160
1150
1140
1130
1120
1110
1100

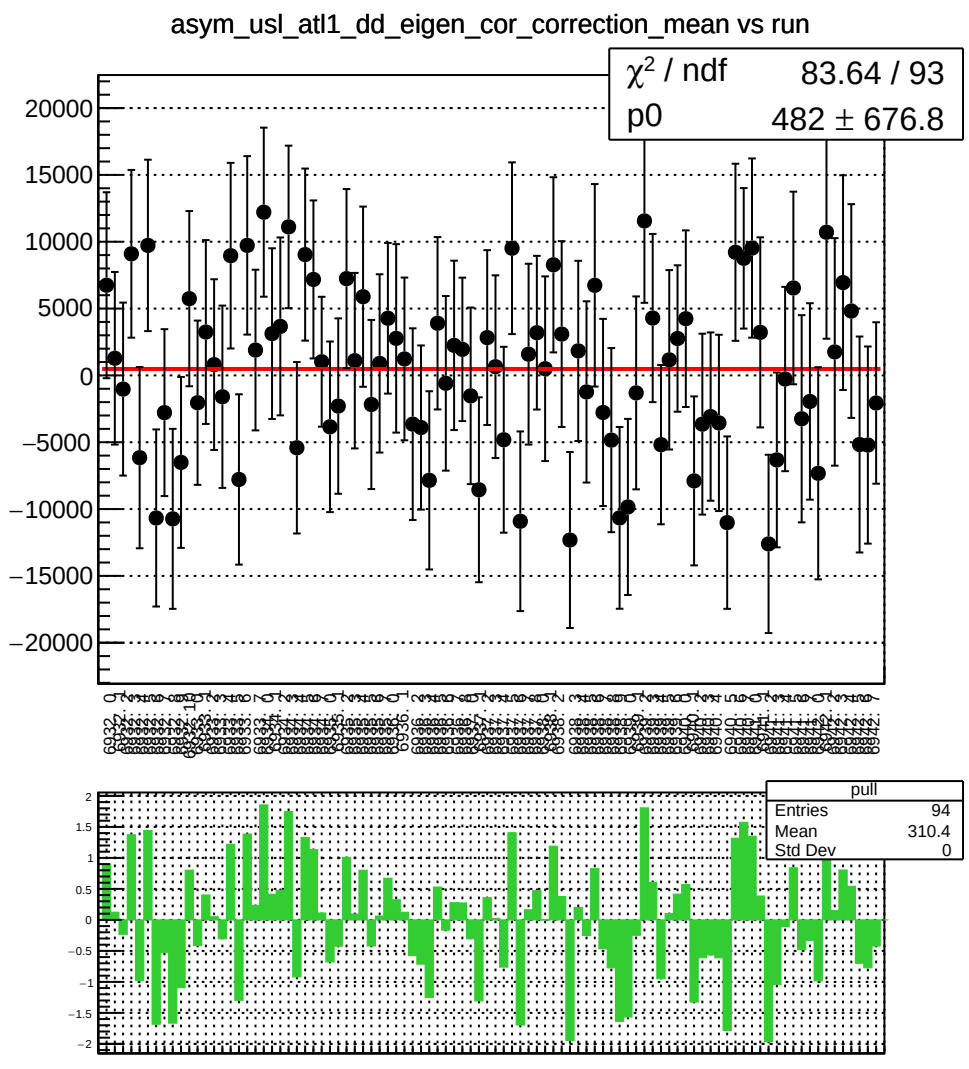

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 83.64 / 93
p0 482 ± 676.8
pull
Entries 94
Mean 310.4
Std Dev 0

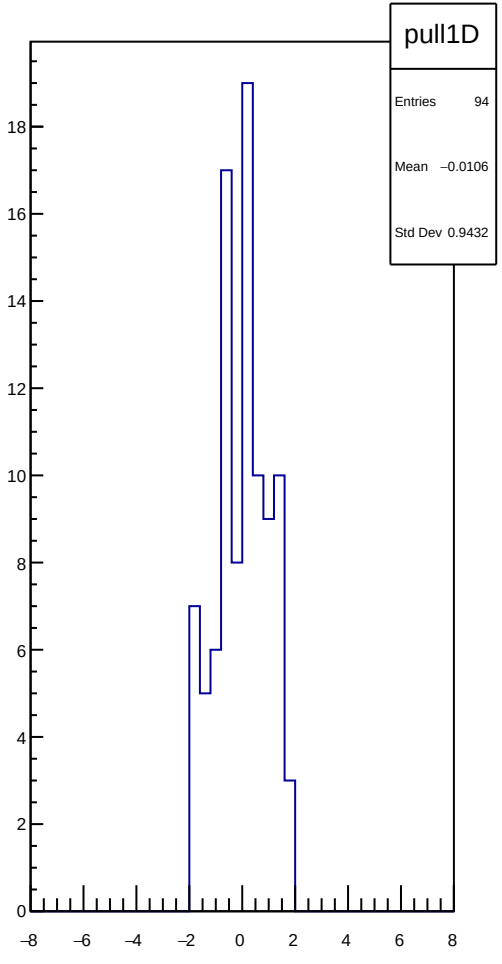

pull1D
Entries 94
Mean −0.0106
Std Dev 0.9432

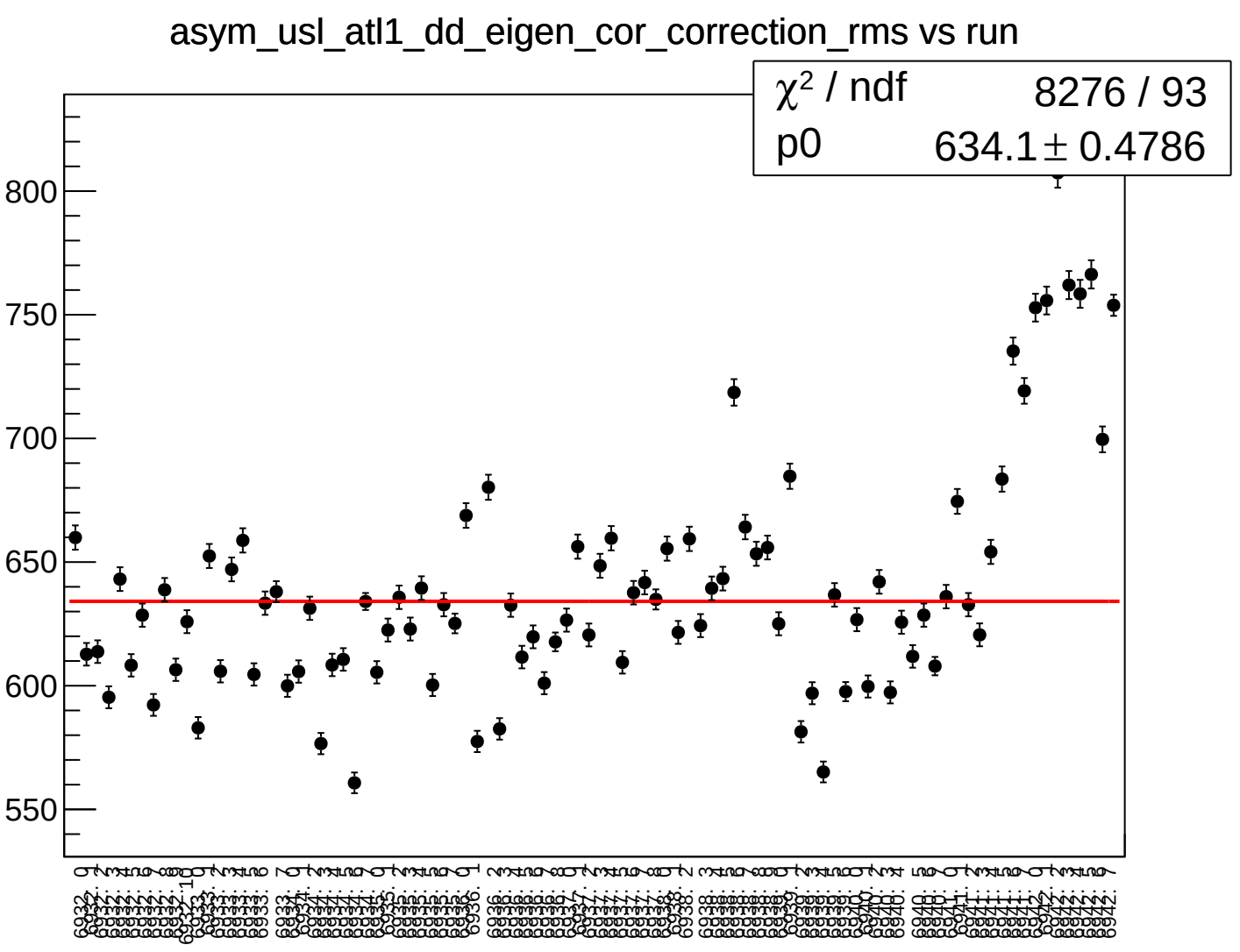

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 8276 / 93
p0 634.1 ± 0.4786
800
750
700
650
600
550

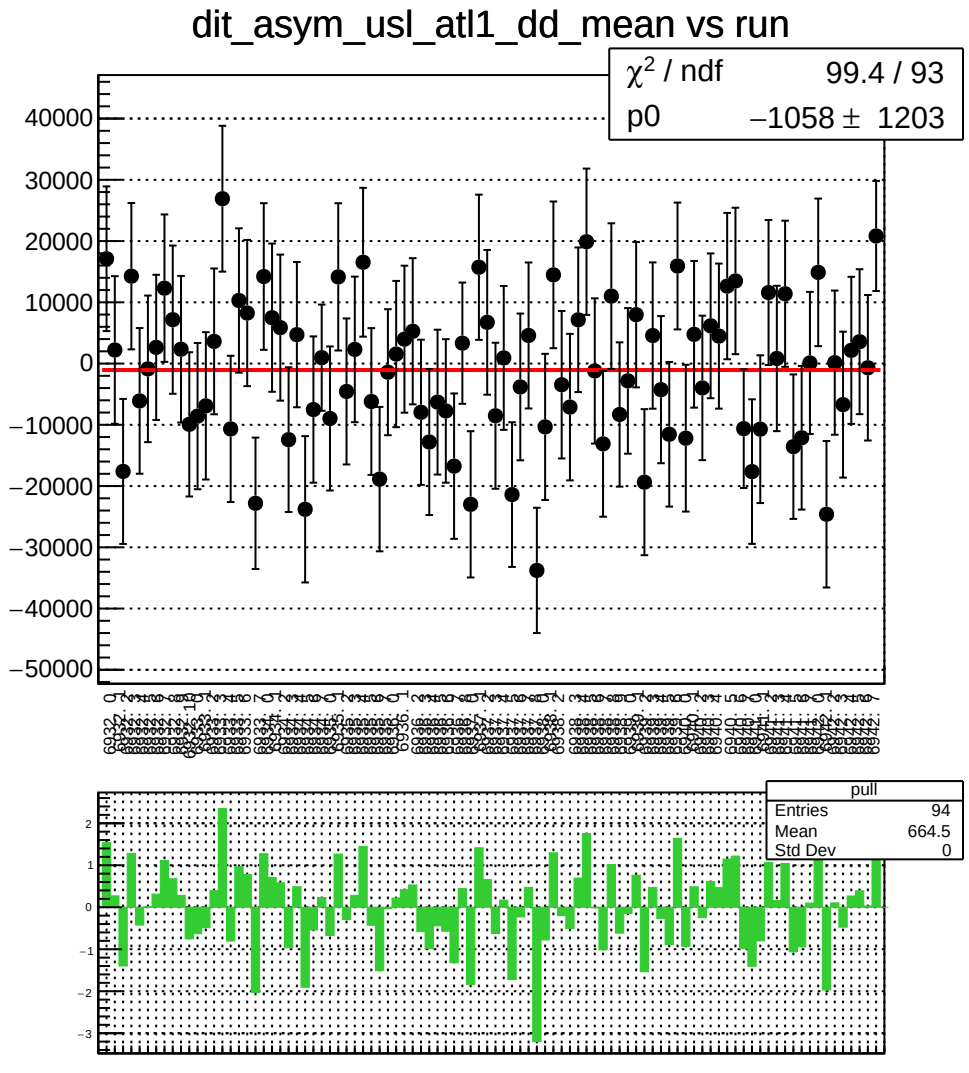

eigen_cor_asym_usl_atl1_dd_mean vs run
χ^2 / ndf 99.63 / 93
p0 −1095 ± 1203
pull
Entries 94
Mean 691
Std Dev 0
pull1D
Entries 94
Mean −0.000853
Std Dev 1.03

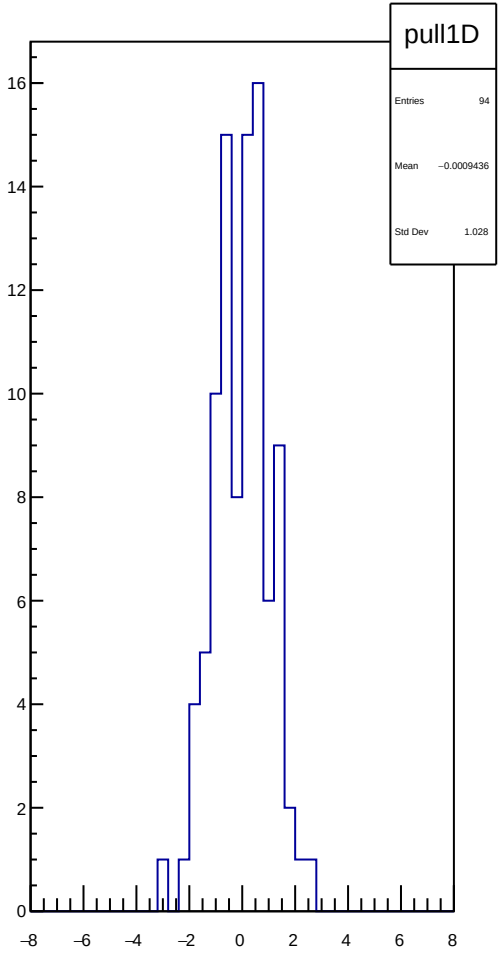

eigen_cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 94.46 / 93
p0 1129 ± 0.8504
1160
1150
1140
1130
1120
1110
1100

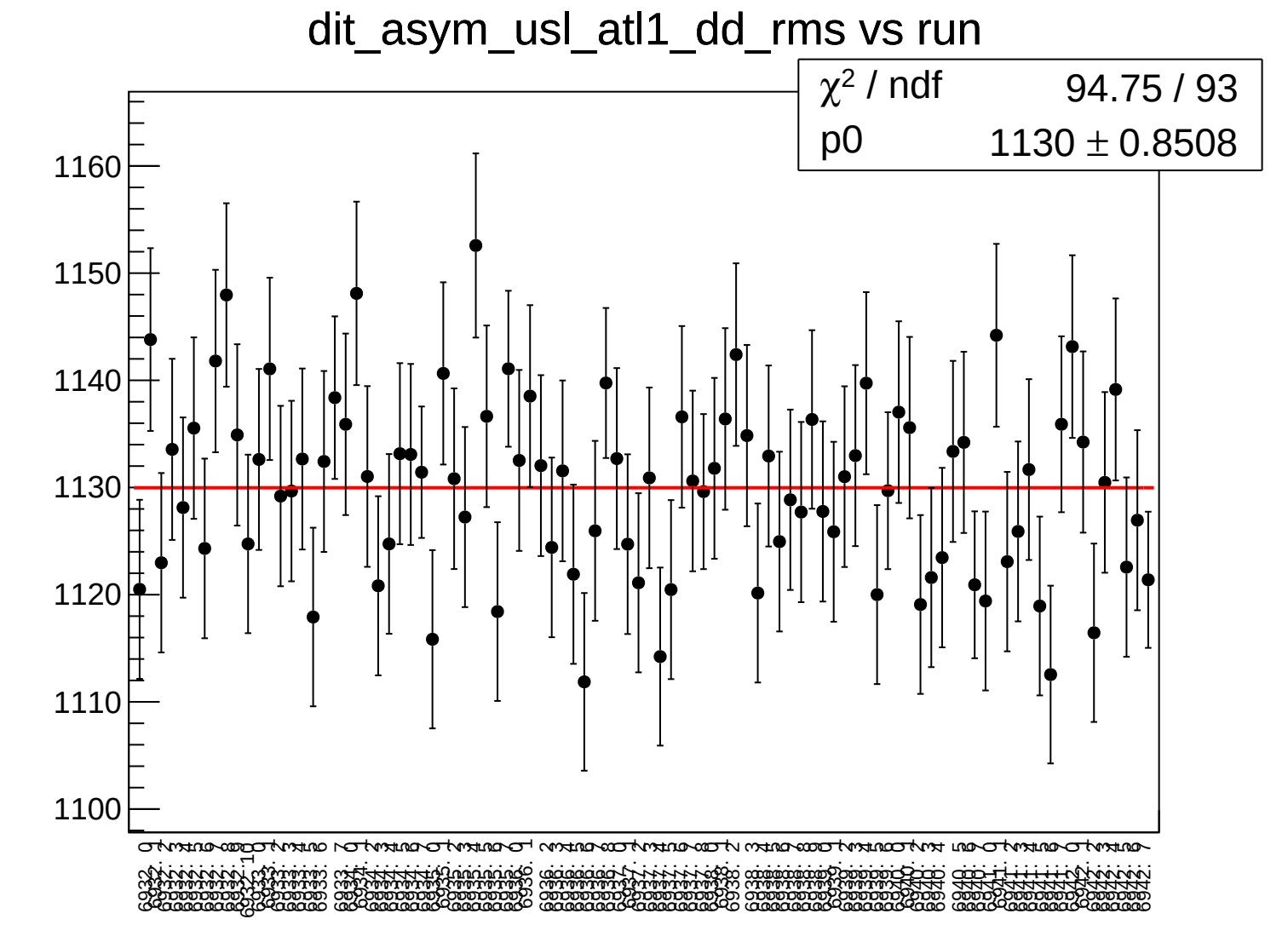

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.64 / 93
p0 482 ± 676.8
pull
Entries 94
Mean 310.4
Std Dev 0

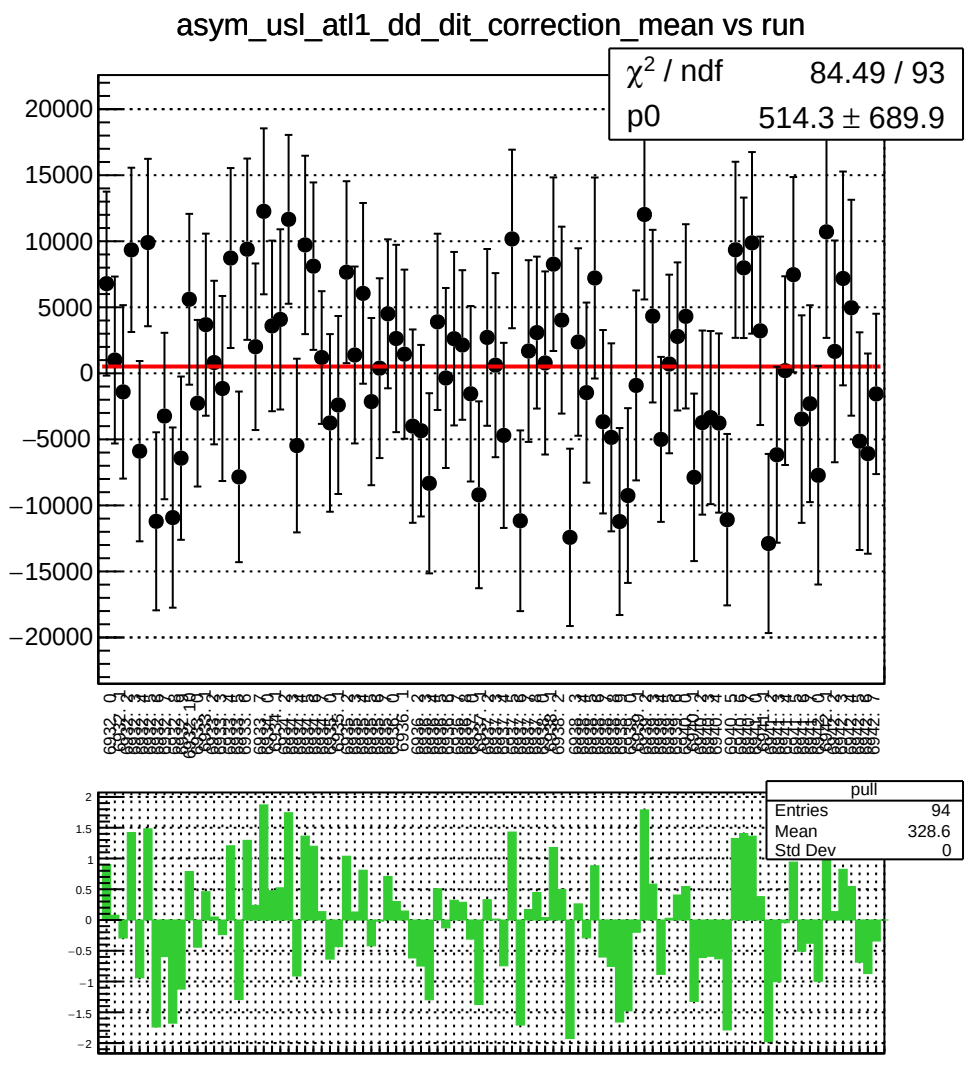

pull1D
Entries 94
Mean −0.0106
Std Dev 0.9432

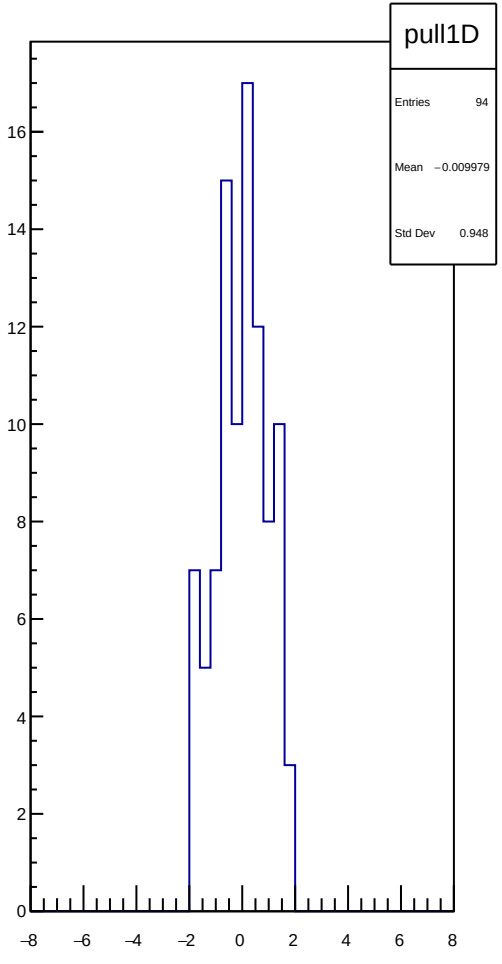

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 8276 / 93
p0 634.1 ± 0.4786
800
750
700
650
600
550

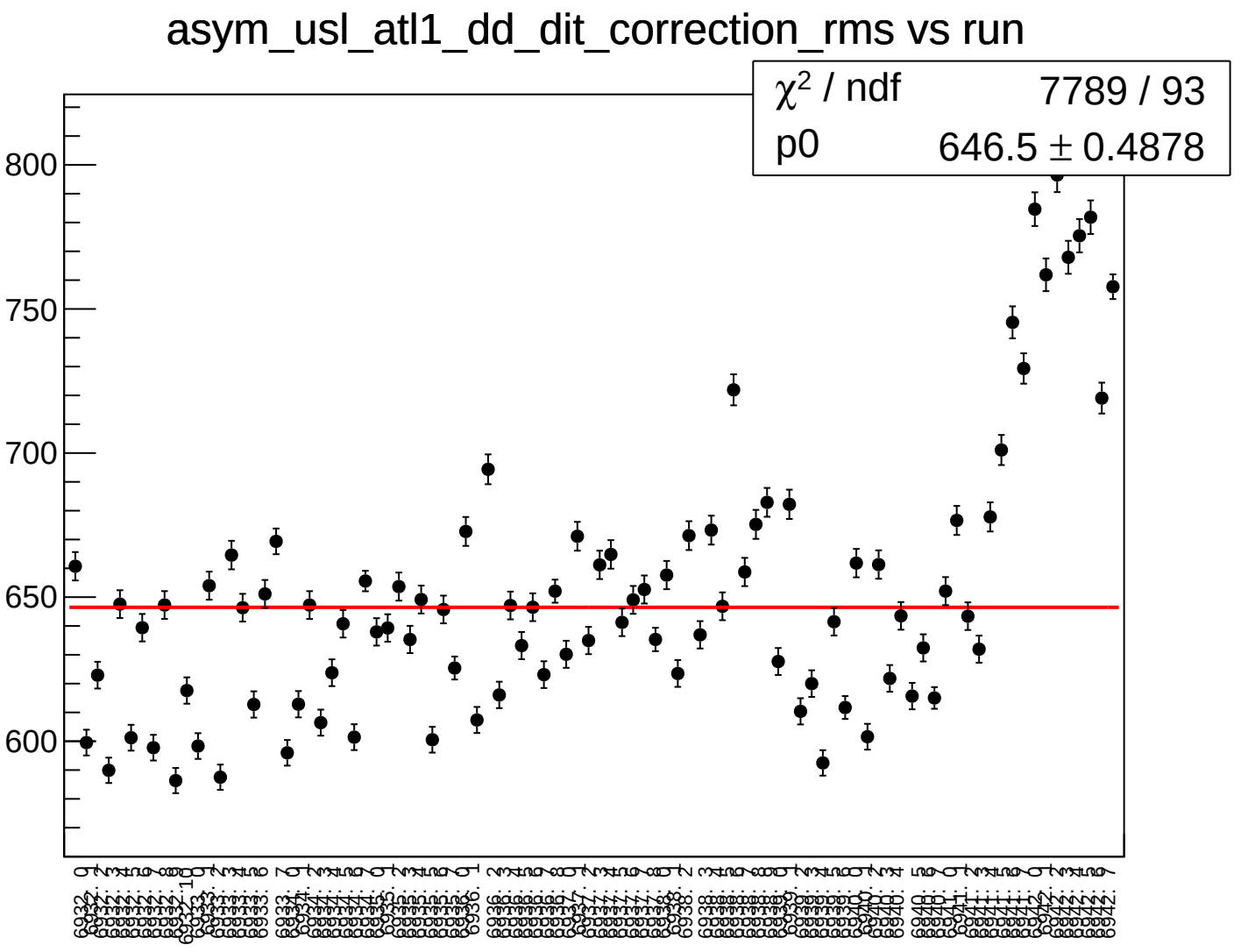

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 99.4 / 93
p0 −1058 ± 1203
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean 664.5
Std Dev 0
2
1
0
−1
−2
−3

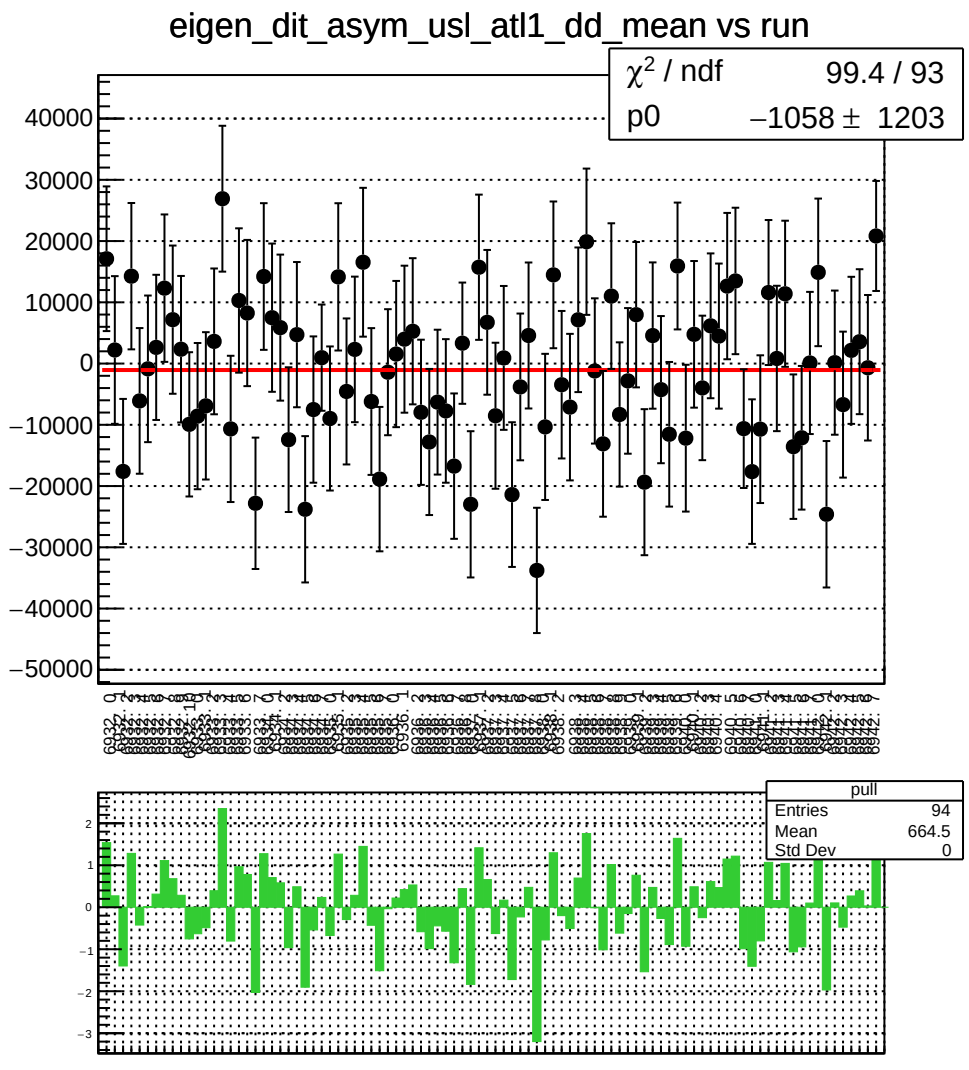

pull1D
Entries 94
Mean −0.0009436
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

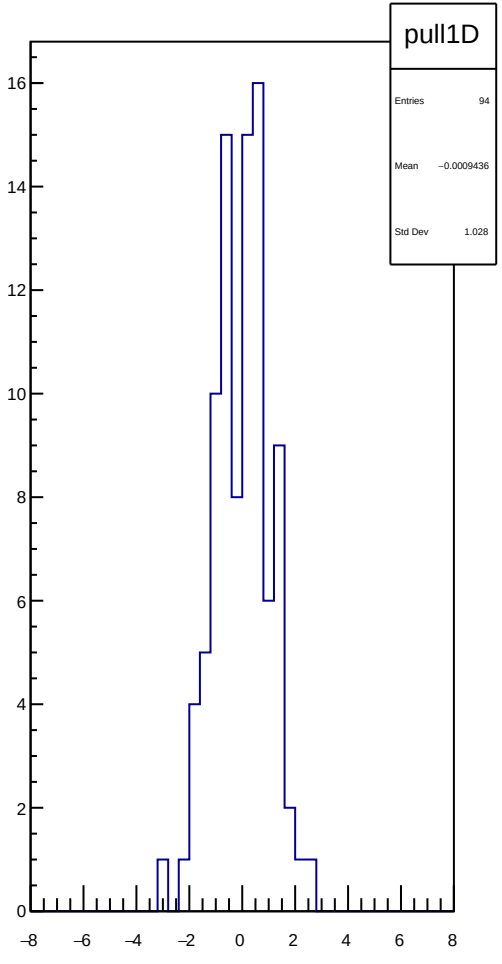

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 94.75 / 93
p0 1130 ± 0.8508
1160
1150
1140
1130
1120
1110
1100

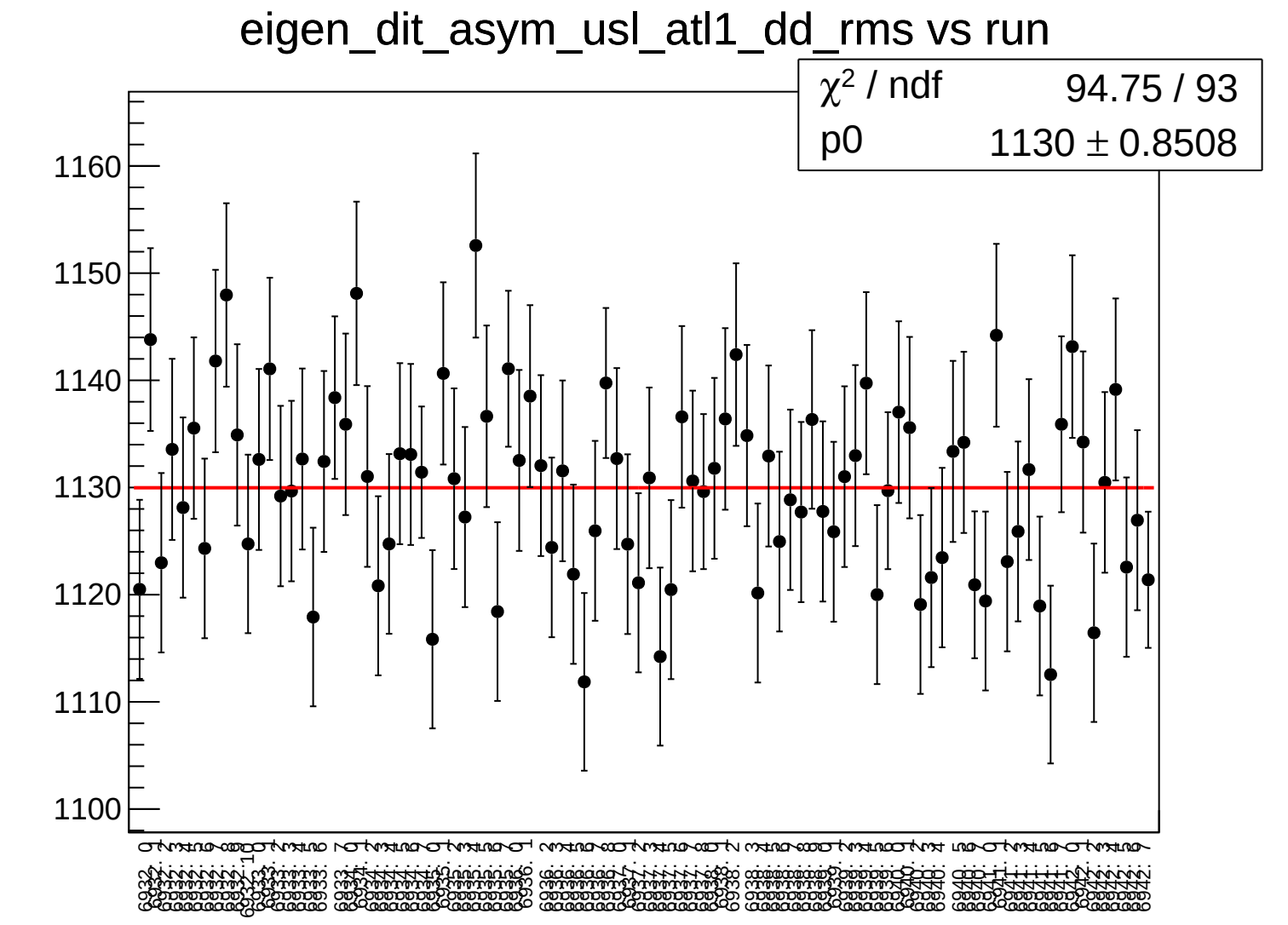

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 84.49 / 93
p0 514.3 ± 689.9
pull
Entries 94
Mean 328.6
Std Dev 0

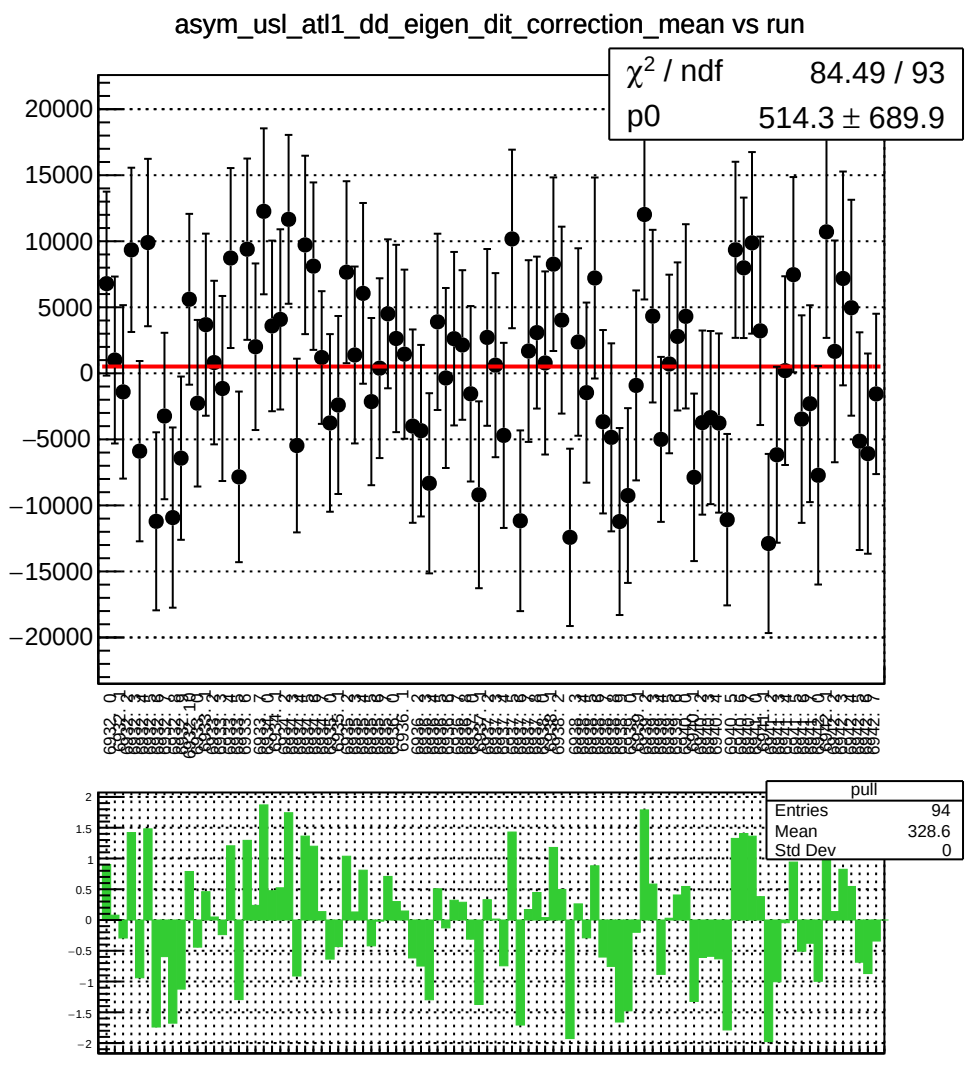

pull1D
Entries 94
Mean −0.009979
Std Dev 0.948

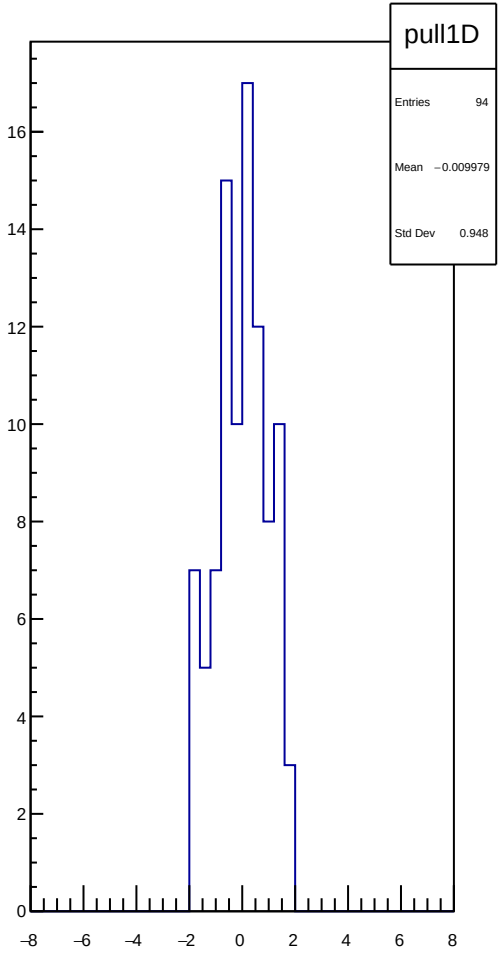

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 7789 / 93
p0 646.5 ± 0.4878
800
750
700
650
600

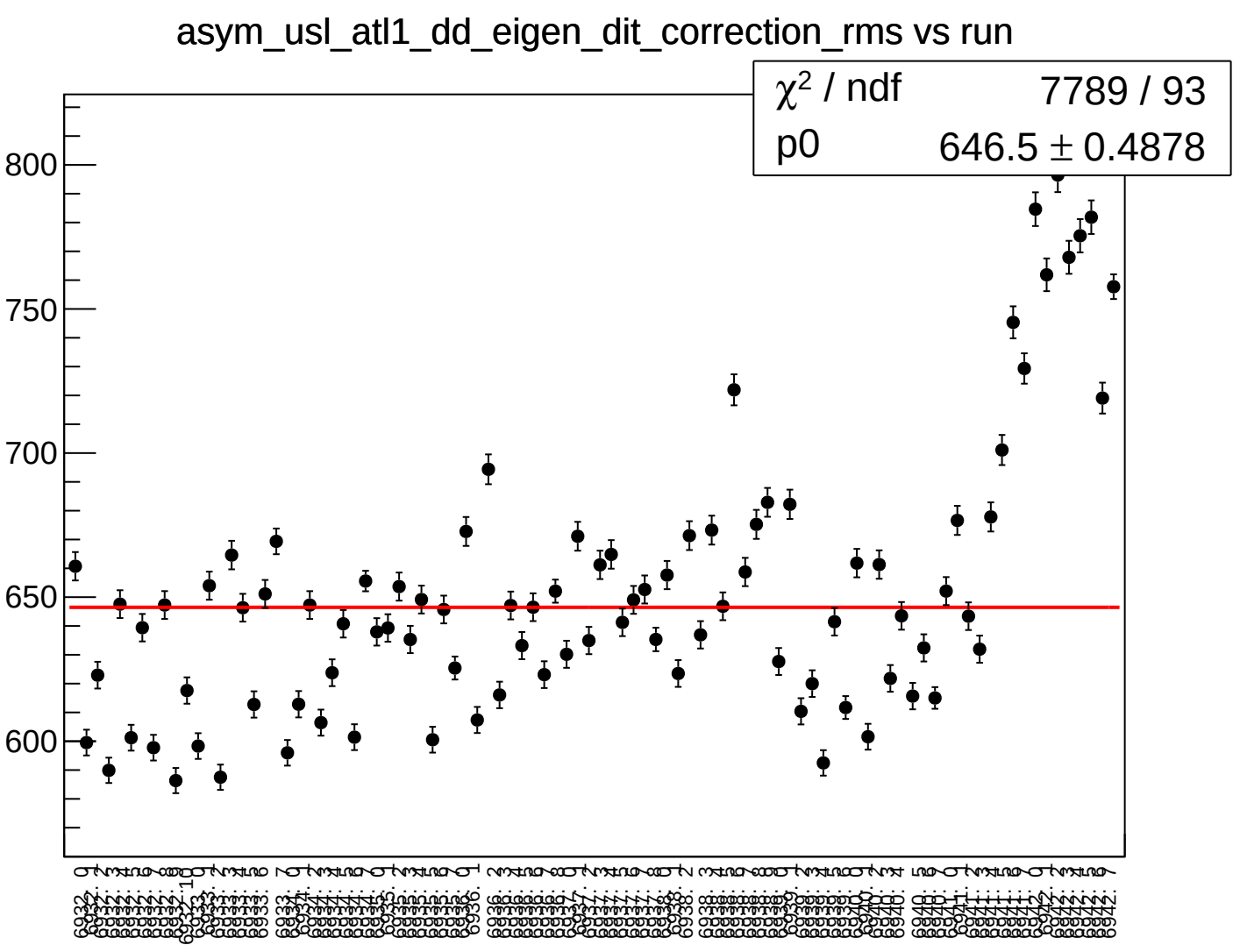

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 99.4 / 93
p0 −1058 ± 1203
pull
Entries 94
Mean 664.5
Std Dev 0

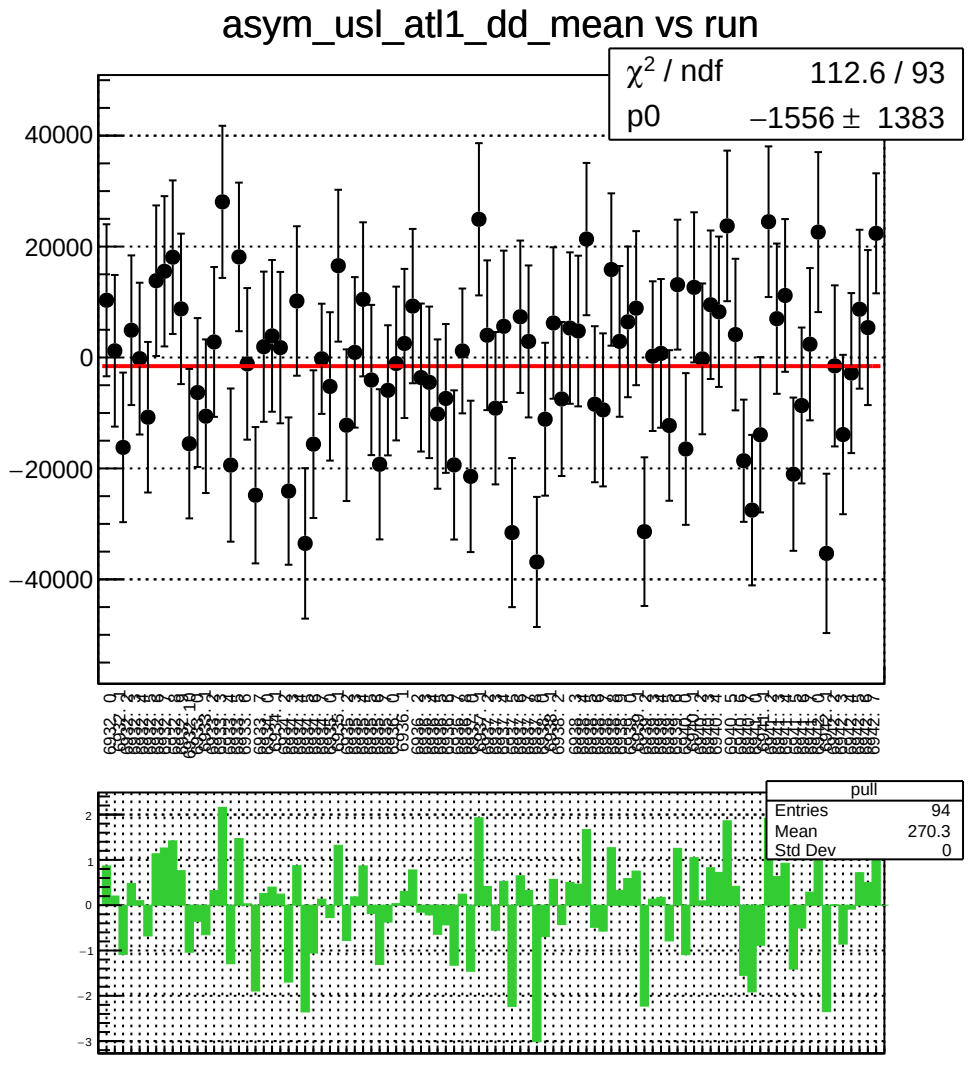

pull1D
Entries 94
Mean −0.0009436
Std Dev 1.028

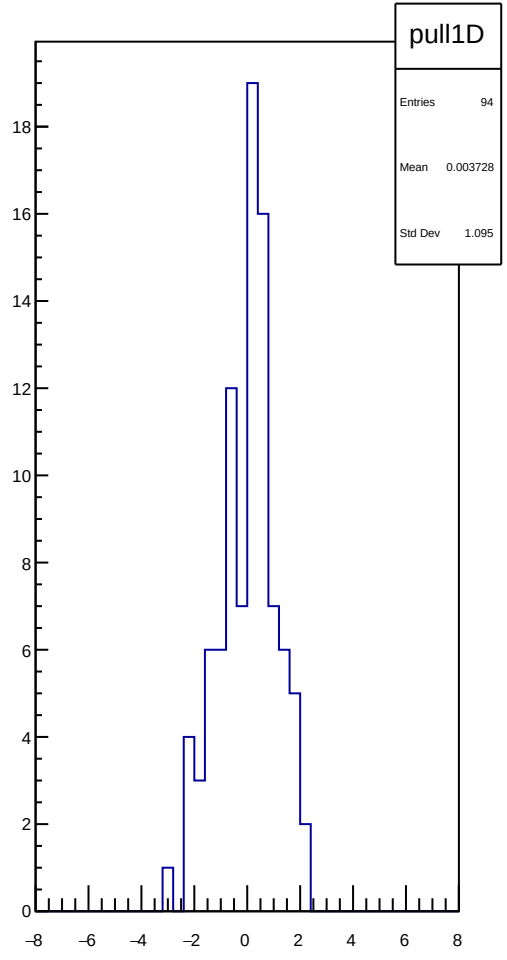

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 94.75 / 93
p0 1130 ± 0.8508
1160
1150
1140
1130
1120
1110
1100

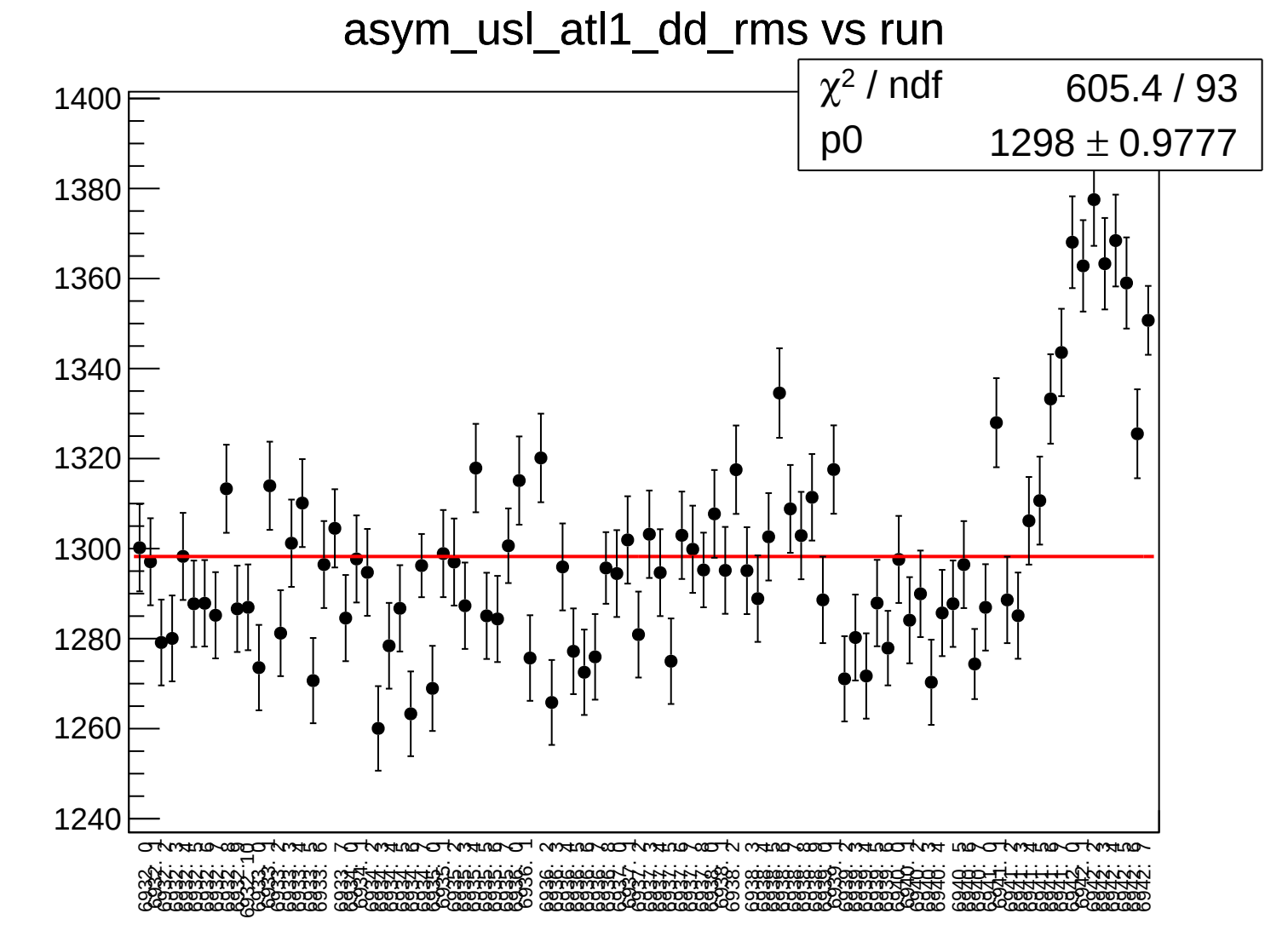

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.49 / 93
p0 514.3 ± 689.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 328.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

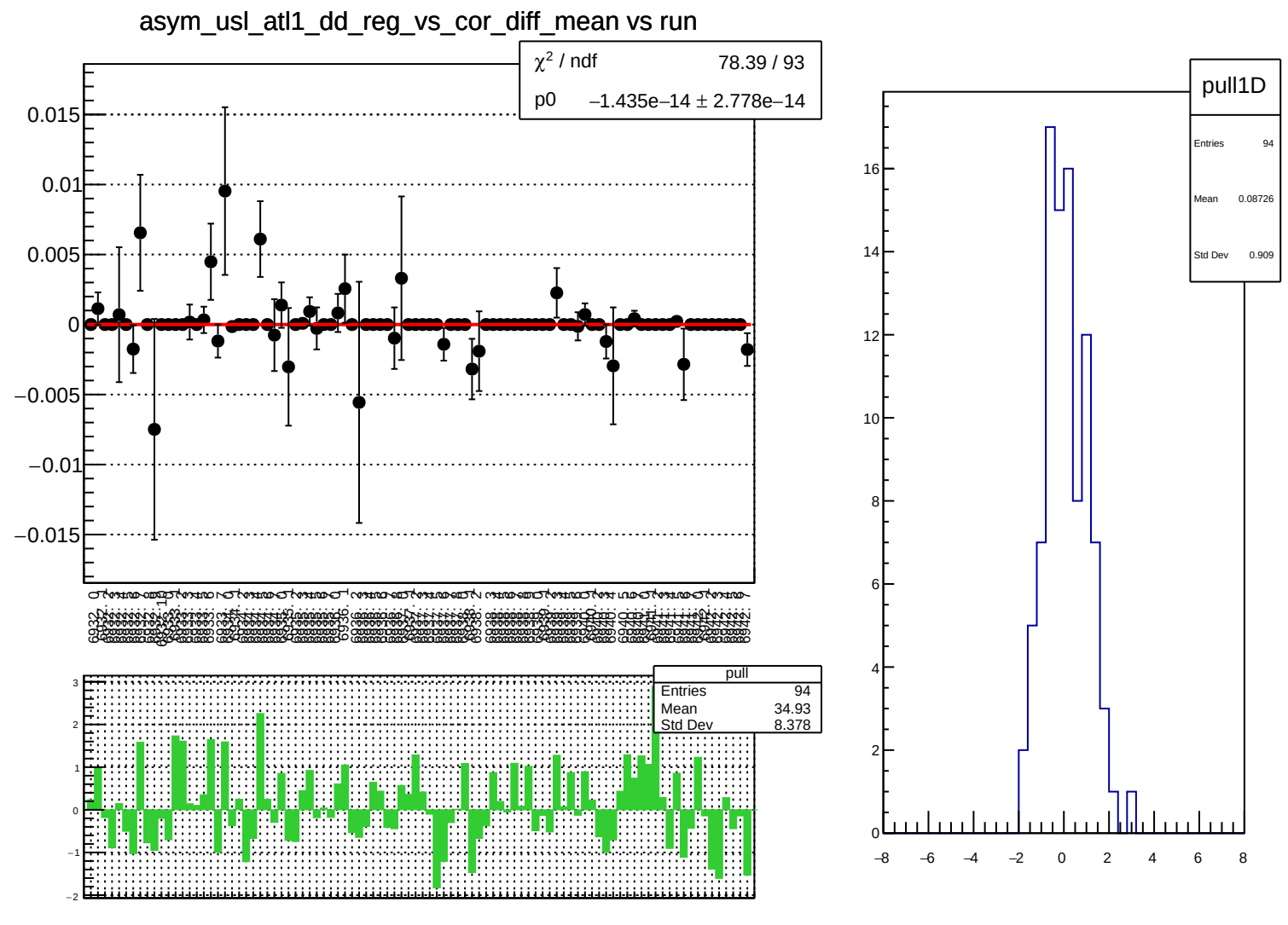

pull1D
Entries 94
Mean −0.009979
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

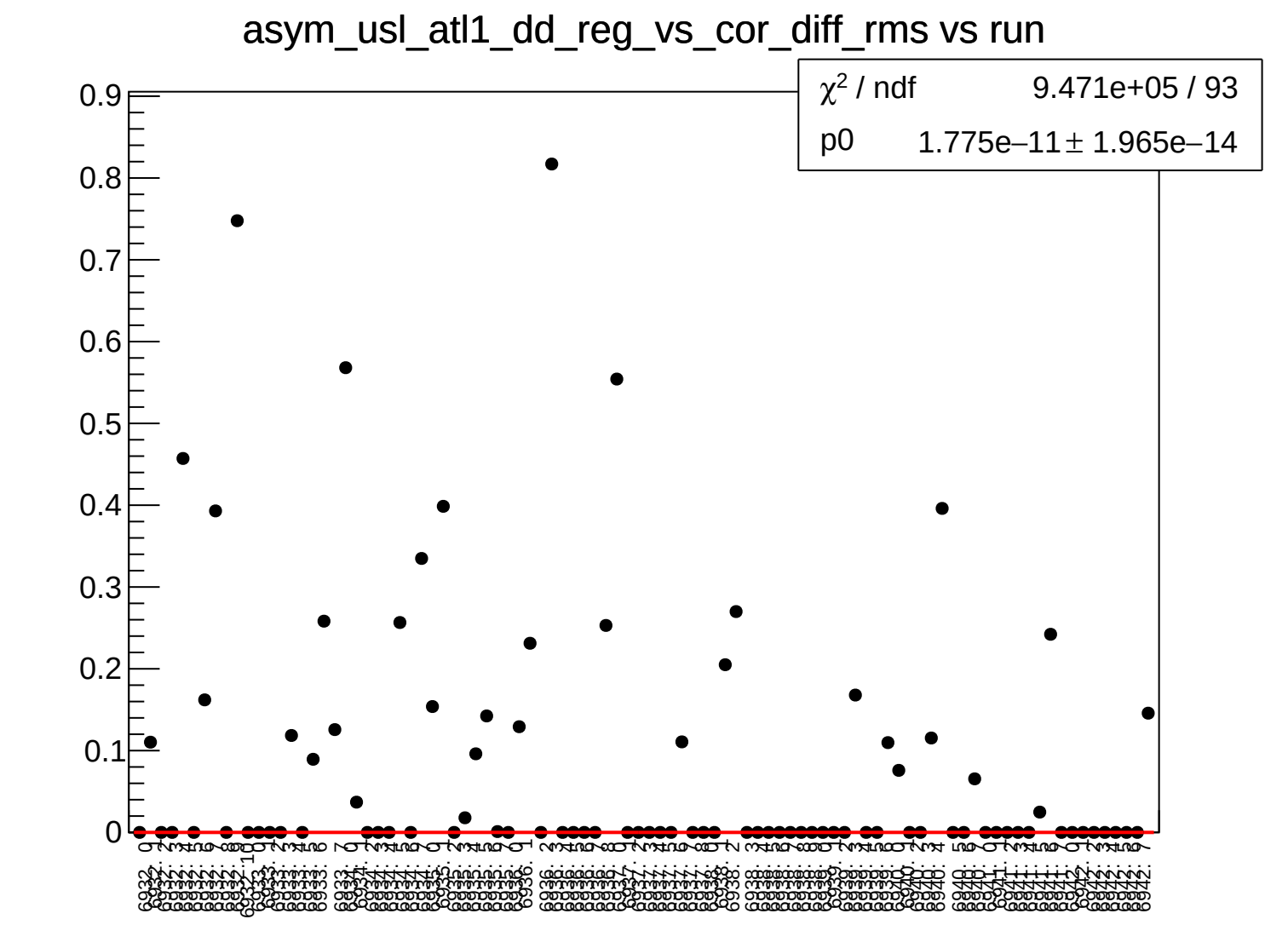

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 7789 / 93
p0 646.5 ± 0.4878
800
750
700
650
600

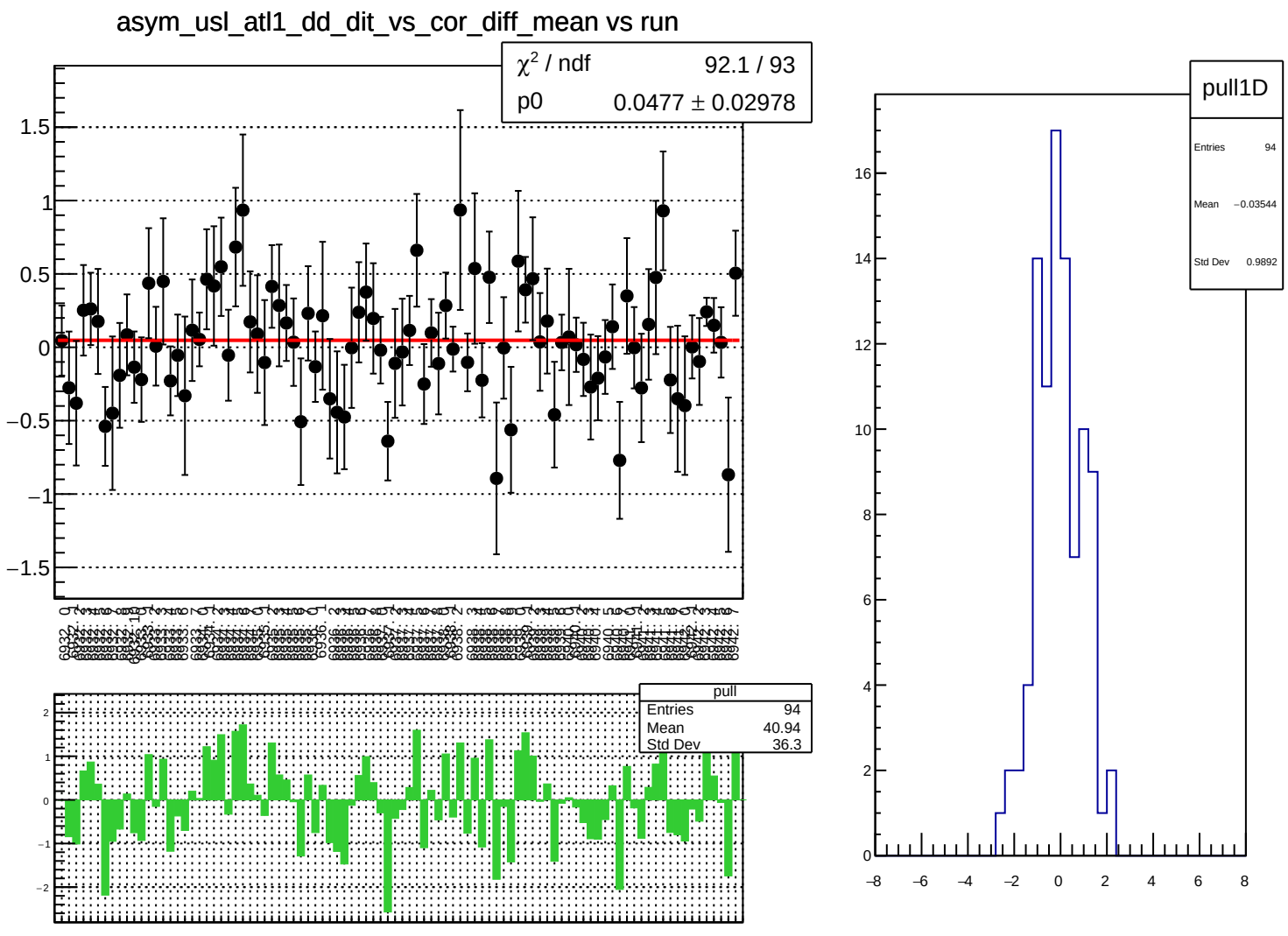

asym_usl_atl1_dd_mean vs run
χ² / ndf 112.6 / 93
p0 −1556 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 270.3
Std Dev 0
2
1
0
−1
−2
−3

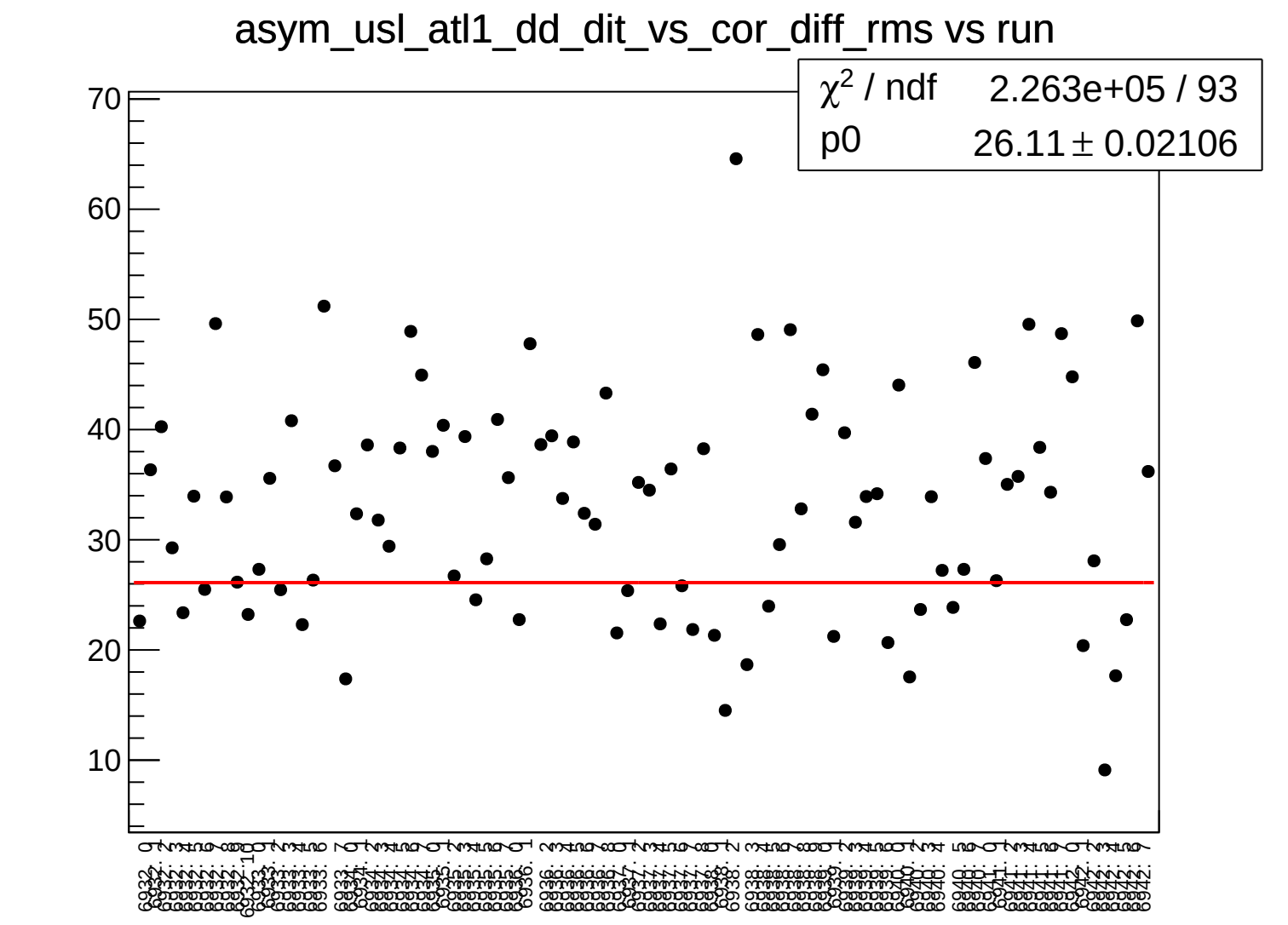

pull1D
Entries 94
Mean 0.003728
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

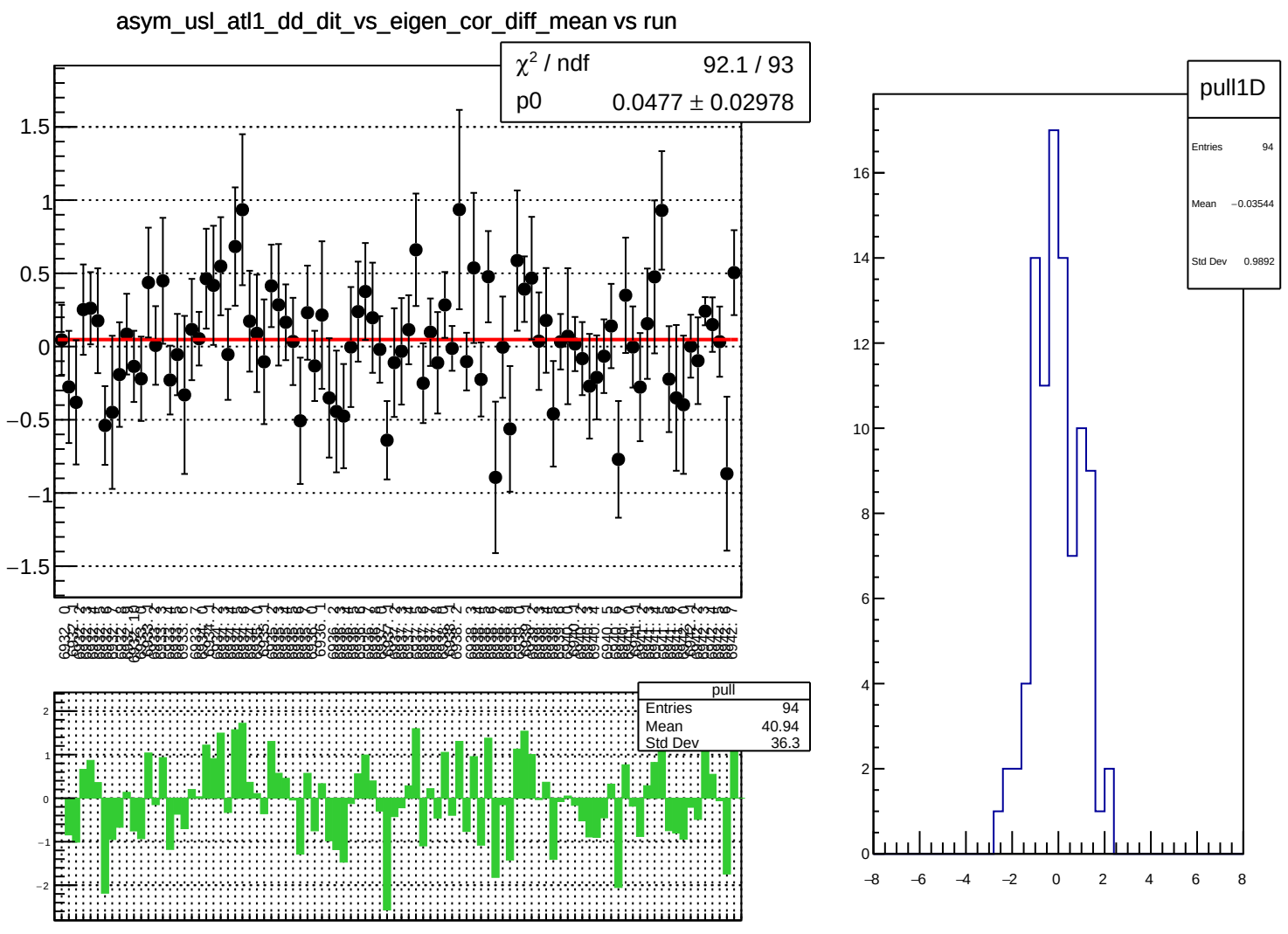

asym_usl_atl1_dd_rms vs run
χ² / ndf 605.4 / 93
p0 1298 ± 0.9777
1400
1380
1360
1340
1320
1300
1280
1260
1240

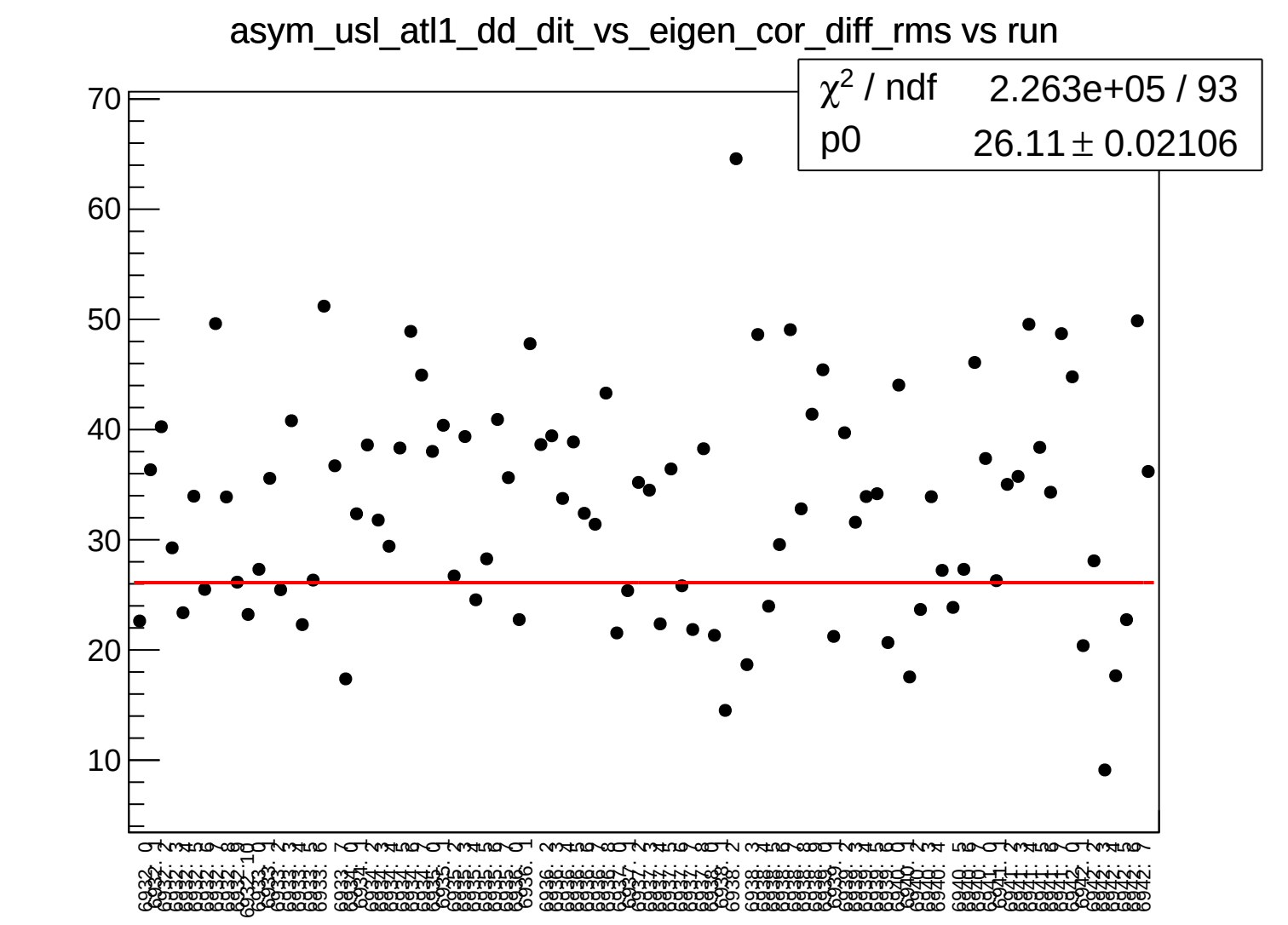

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 93
p0 −1.435e−14 ± 2.778e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 34.93
Std Dev 8.378
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.08726
Std Dev 0.909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

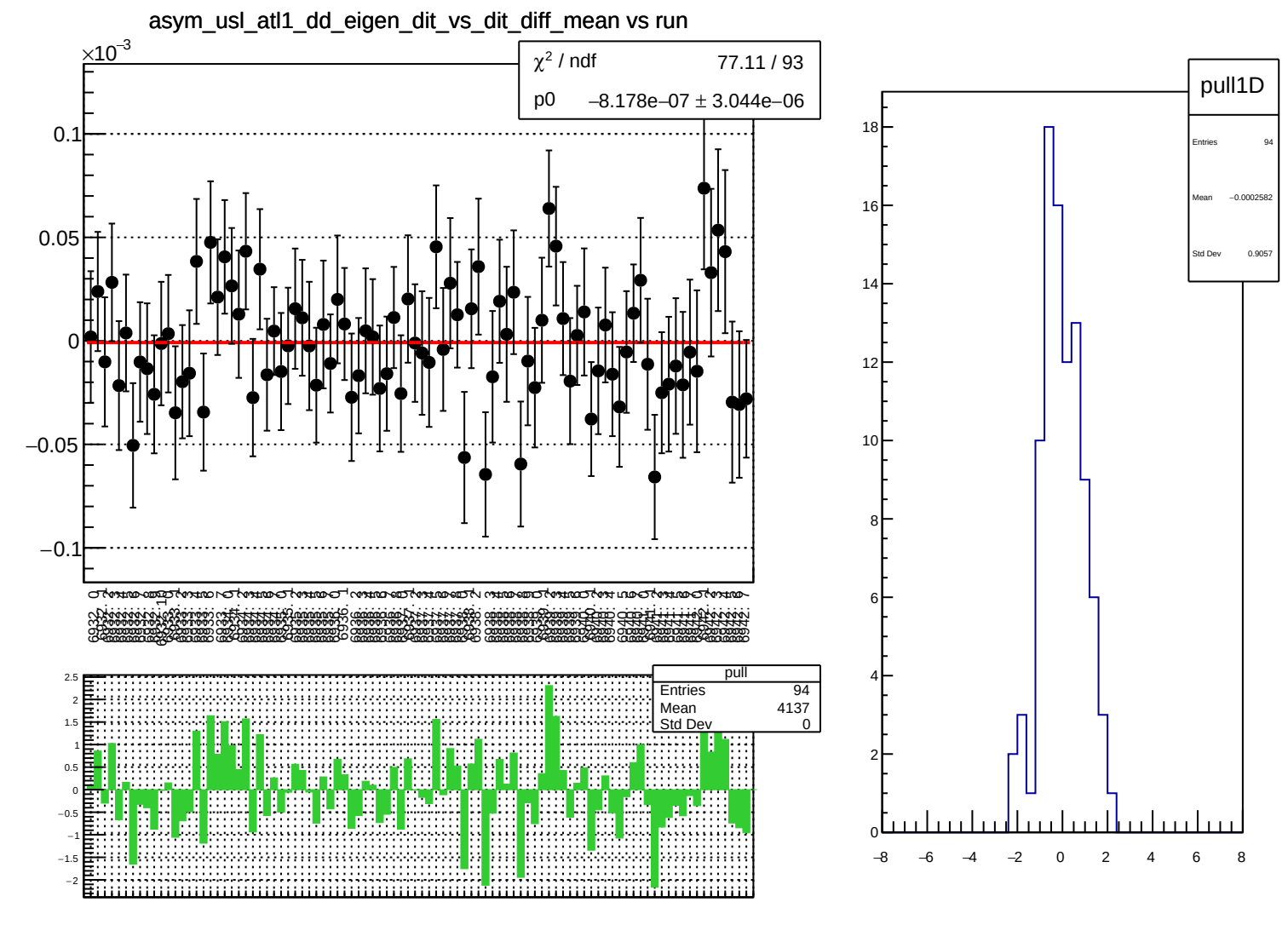

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.471e+05 / 93
p0 1.775e−11 ± 1.965e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

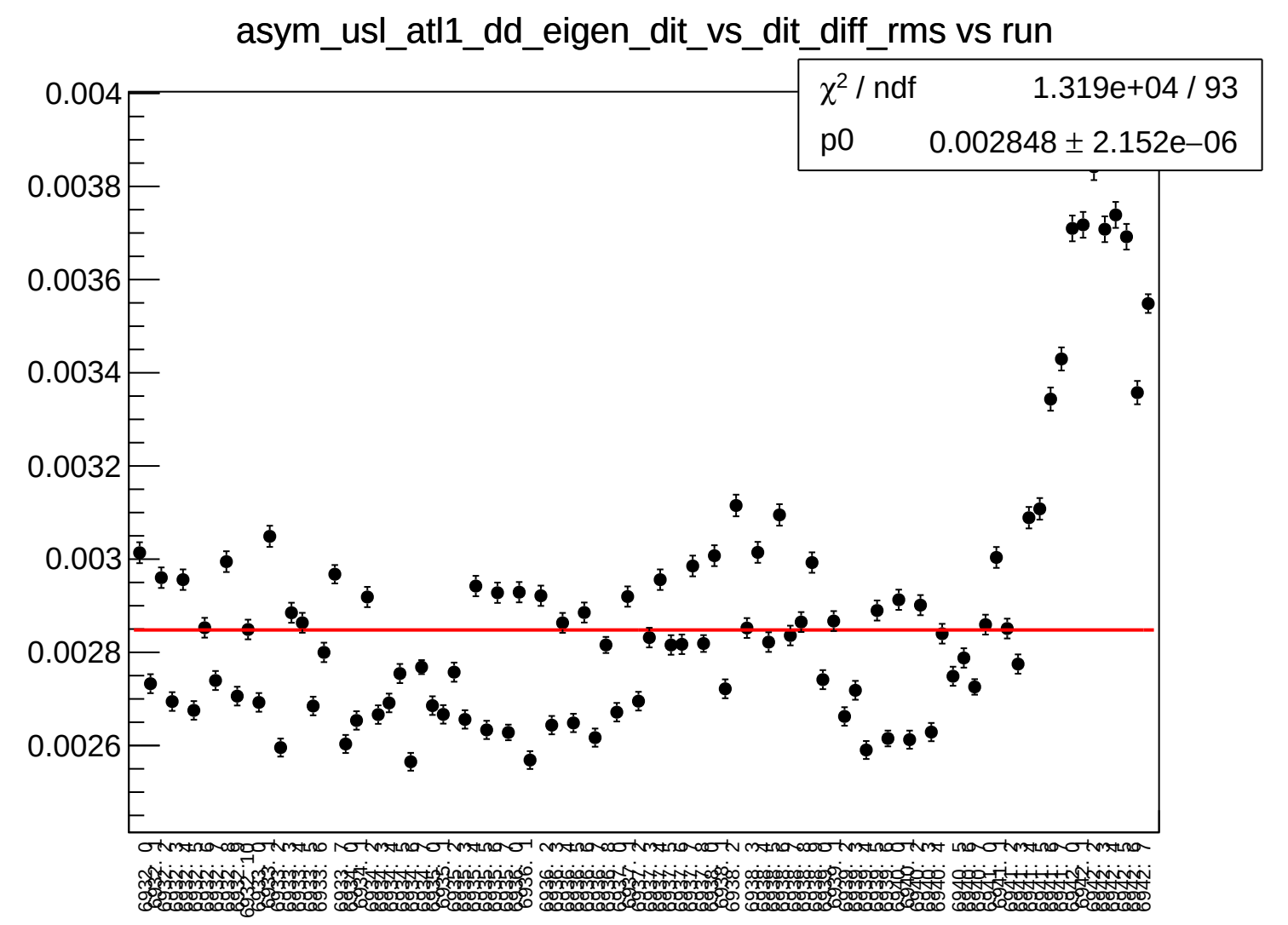

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.1 / 93
p0 0.0477 ± 0.02978
pull
Entries 94
Mean 40.94
Std Dev 36.3
pull1D
Entries 94
Mean −0.03544
Std Dev 0.9892

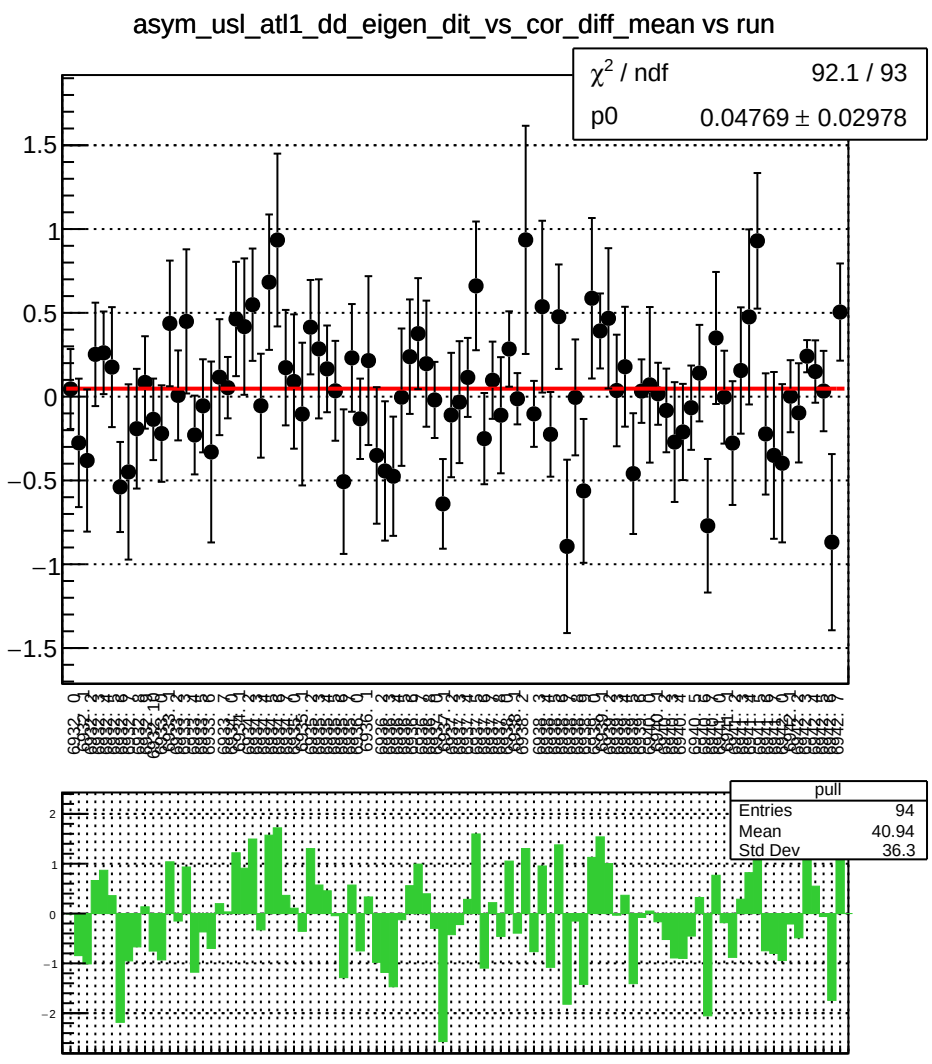

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.263e+05 / 93
p0 26.11 ± 0.02106
70
60
50
40
30
20
10

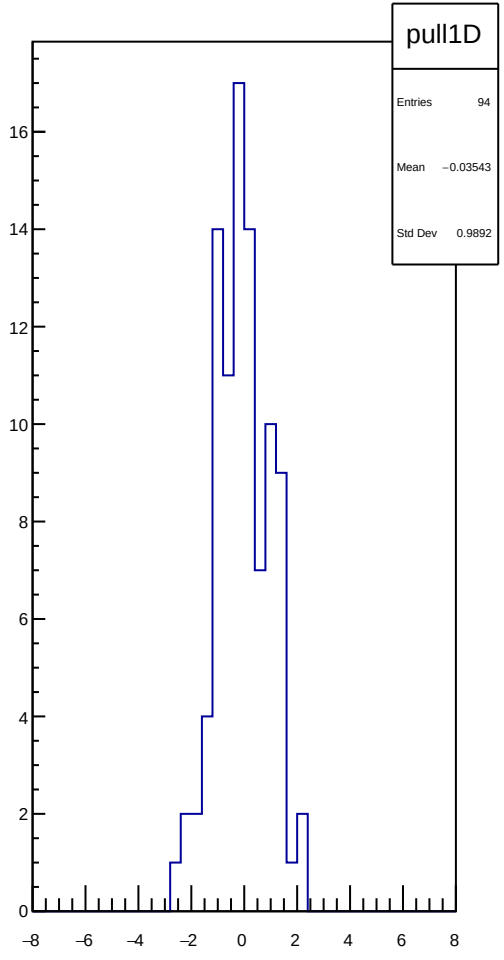

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.1 / 93
p0 0.0477 ± 0.02978
pull
Entries 94
Mean 40.94
Std Dev 36.3
pull1D
Entries 94
Mean −0.03544
Std Dev 0.9892

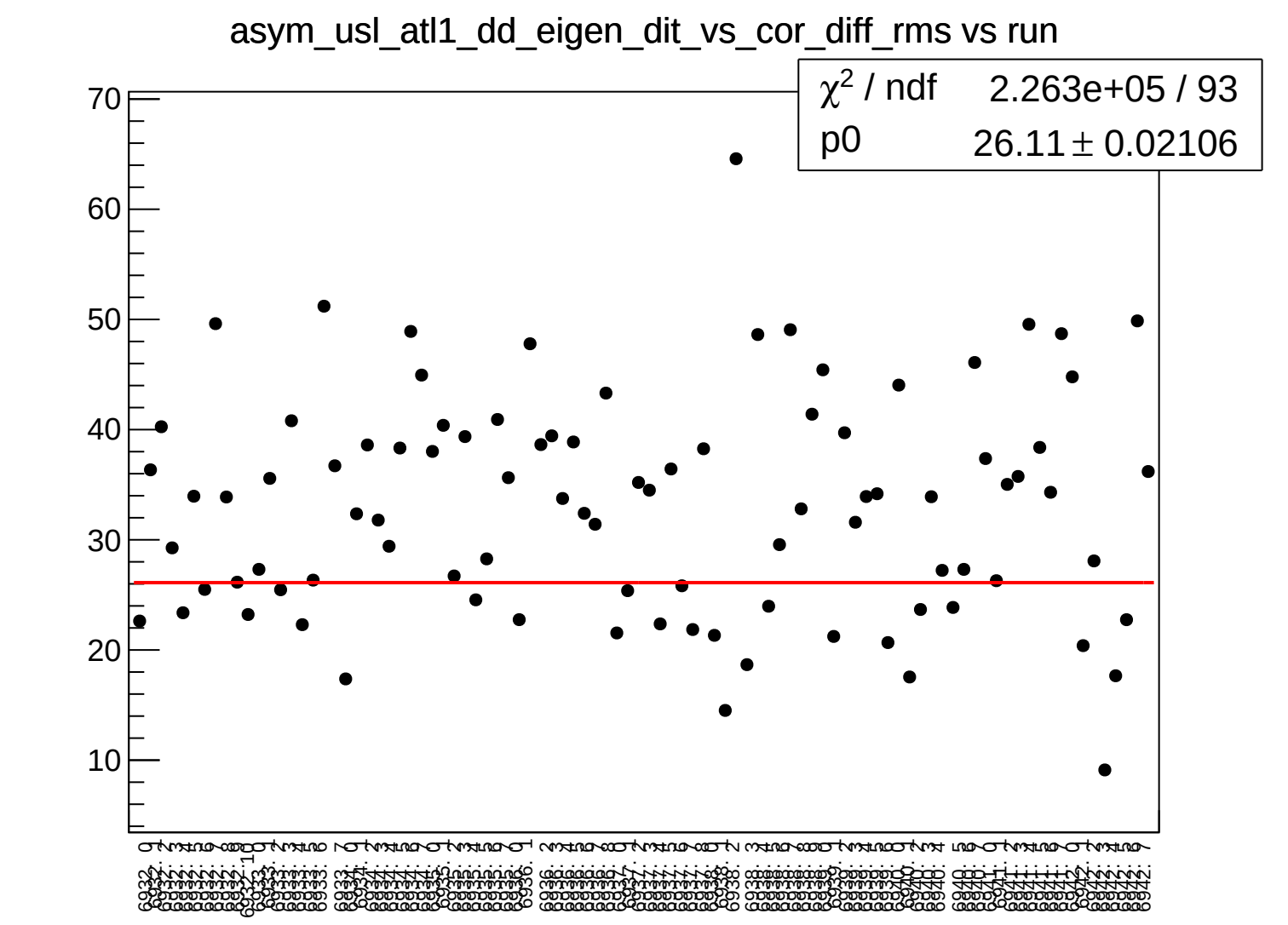

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.263e+05 / 93
p0 26.11 ± 0.02106
70
60
50
40
30
20
10

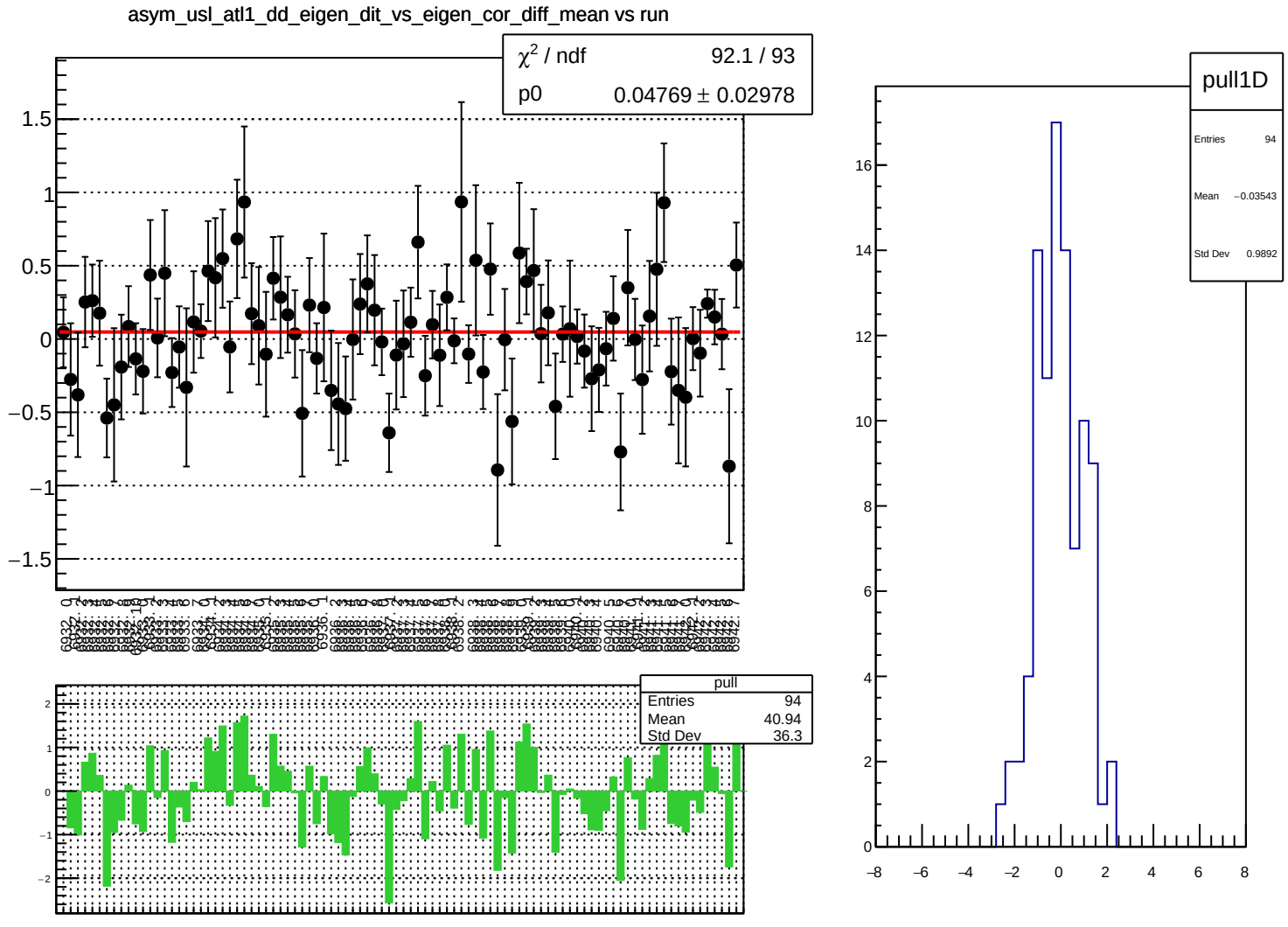

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.11 / 93
p0 −8.178e−07 ± 3.044e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 4137
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0002582
Std Dev 0.9057
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

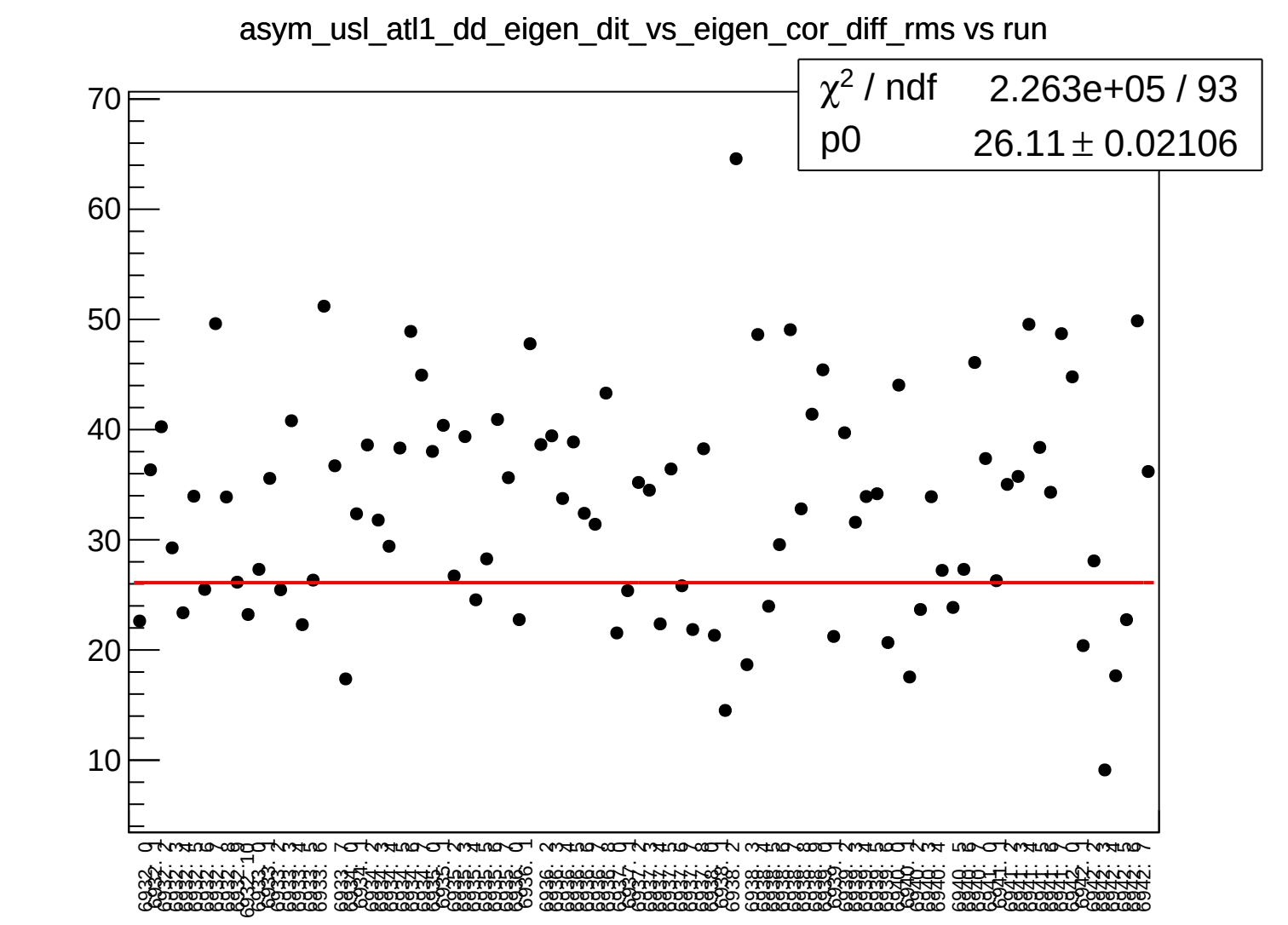

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.319e+04 / 93
p0 0.002848 ± 2.152e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

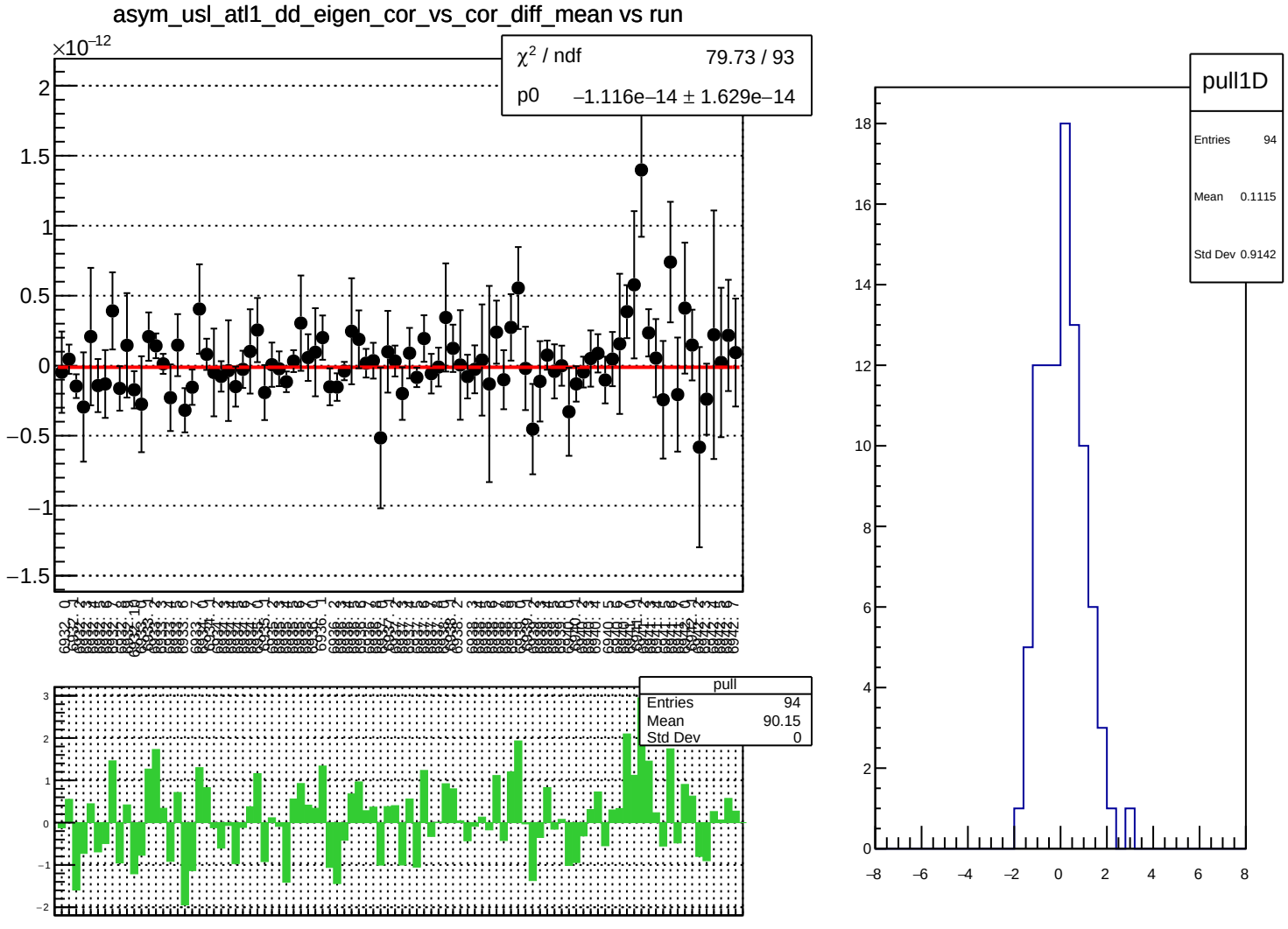

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.1 / 93
p0 0.04769 ± 0.02978
pull
Entries 94
Mean 40.94
Std Dev 36.3

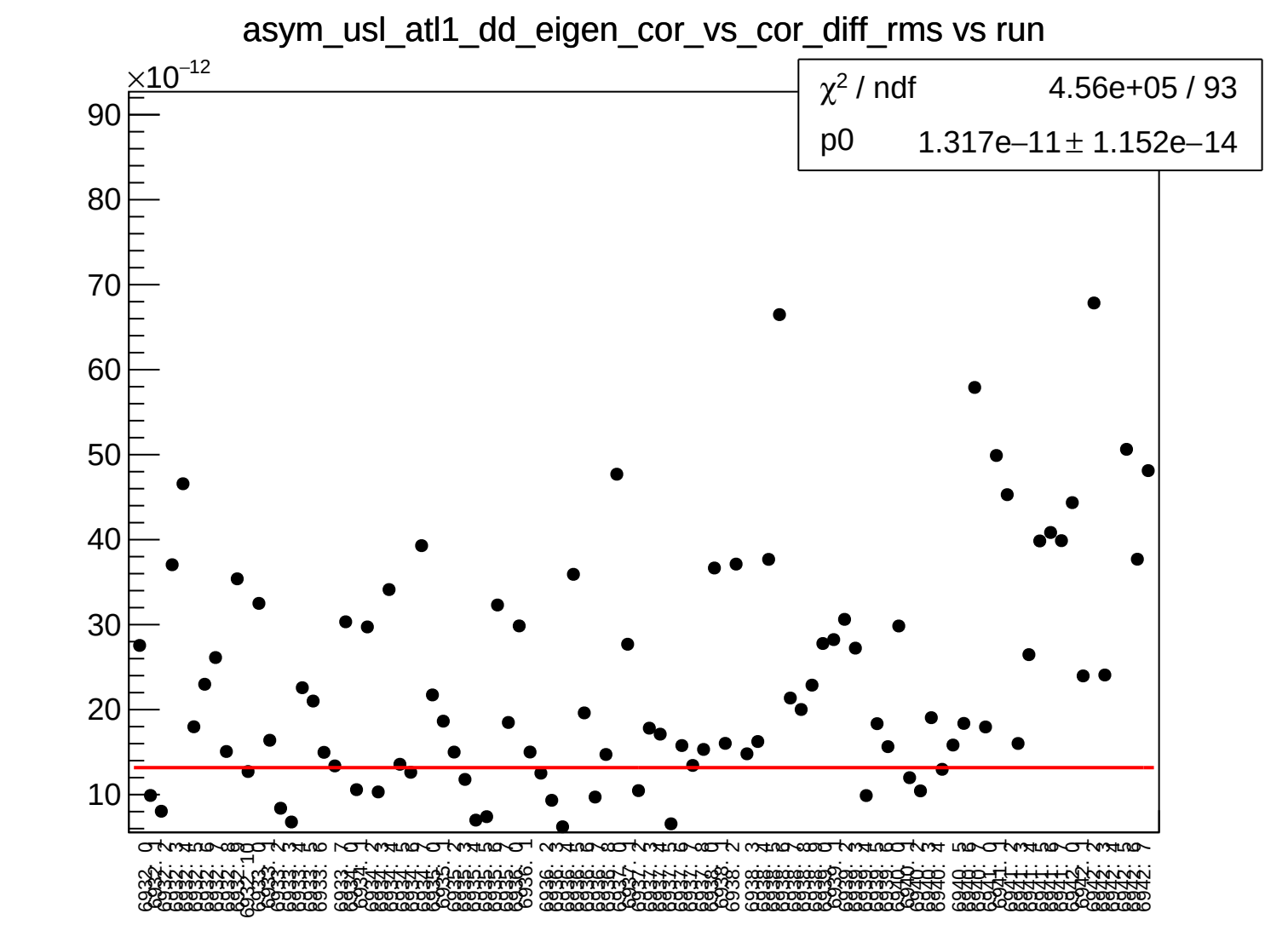

pull1D
Entries 94
Mean −0.03543
Std Dev 0.9892

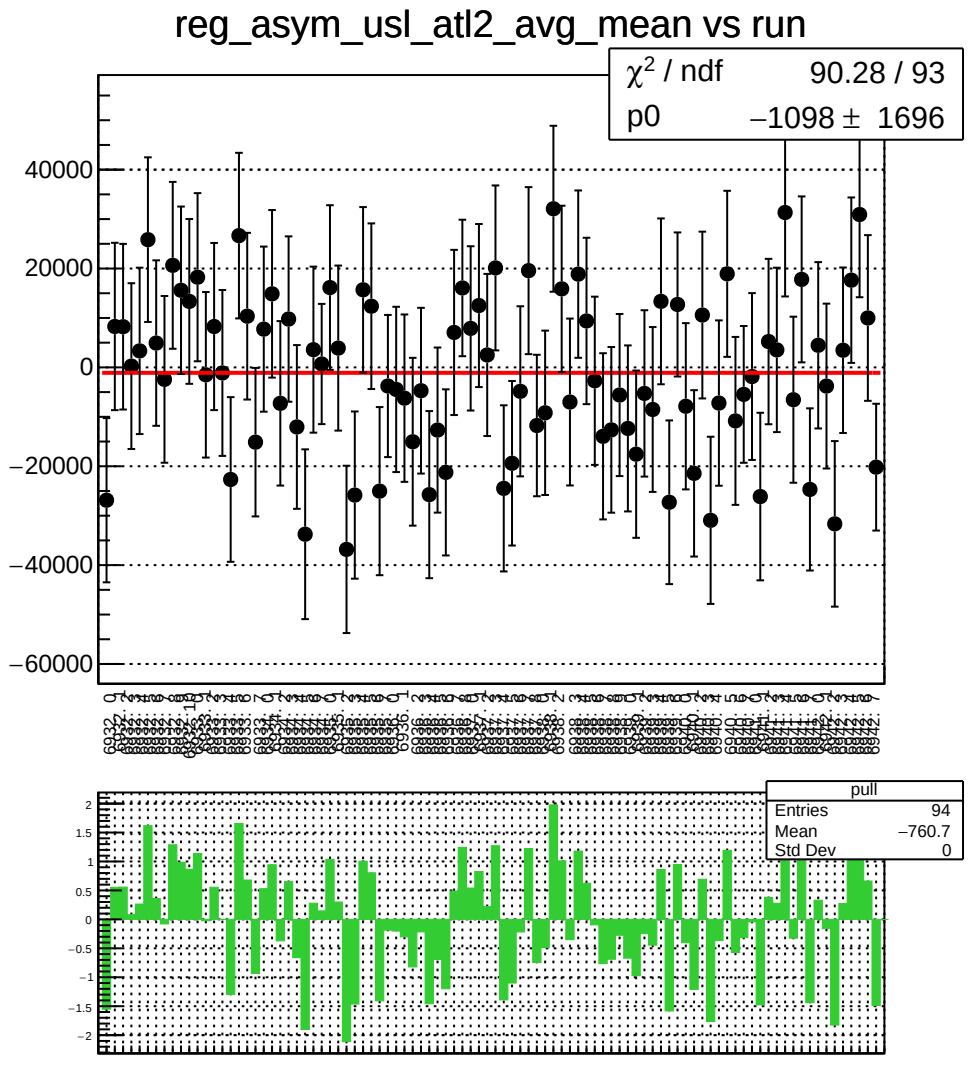

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.263e+05 / 93
p0 26.11 ± 0.02106
70
60
50
40
30
20
10

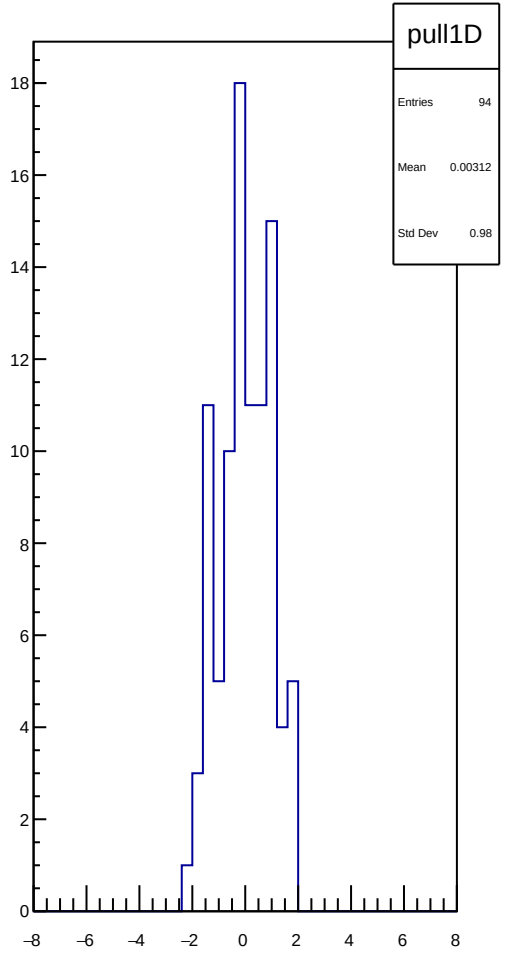

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.1 / 93
p0 0.04769 ± 0.02978
pull
Entries 94
Mean 40.94
Std Dev 36.3
pull1D
Entries 94
Mean −0.03543
Std Dev 0.9892

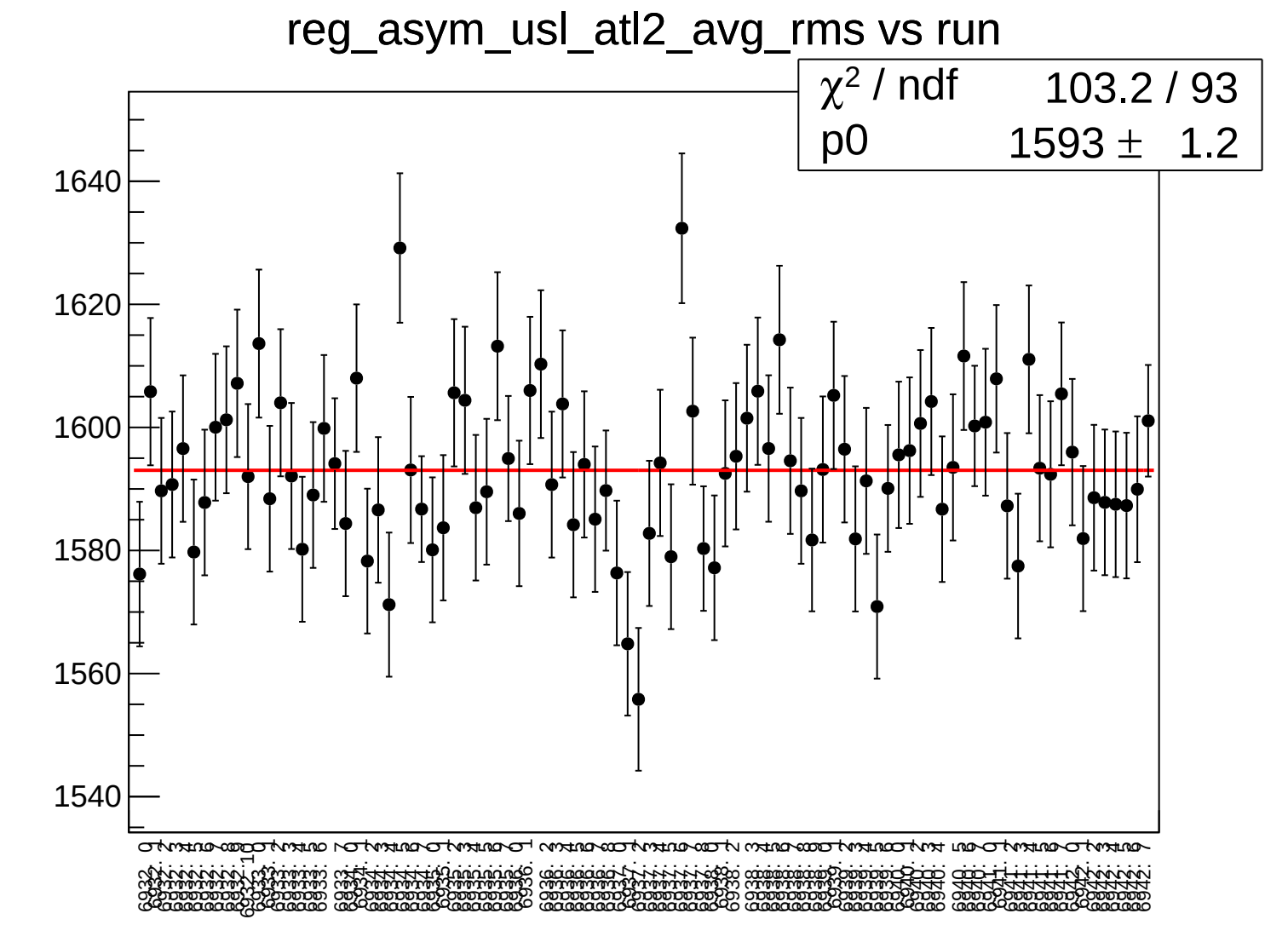

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.263e+05 / 93
p0 26.11 ± 0.02106
70
60
50
40
30
20
10

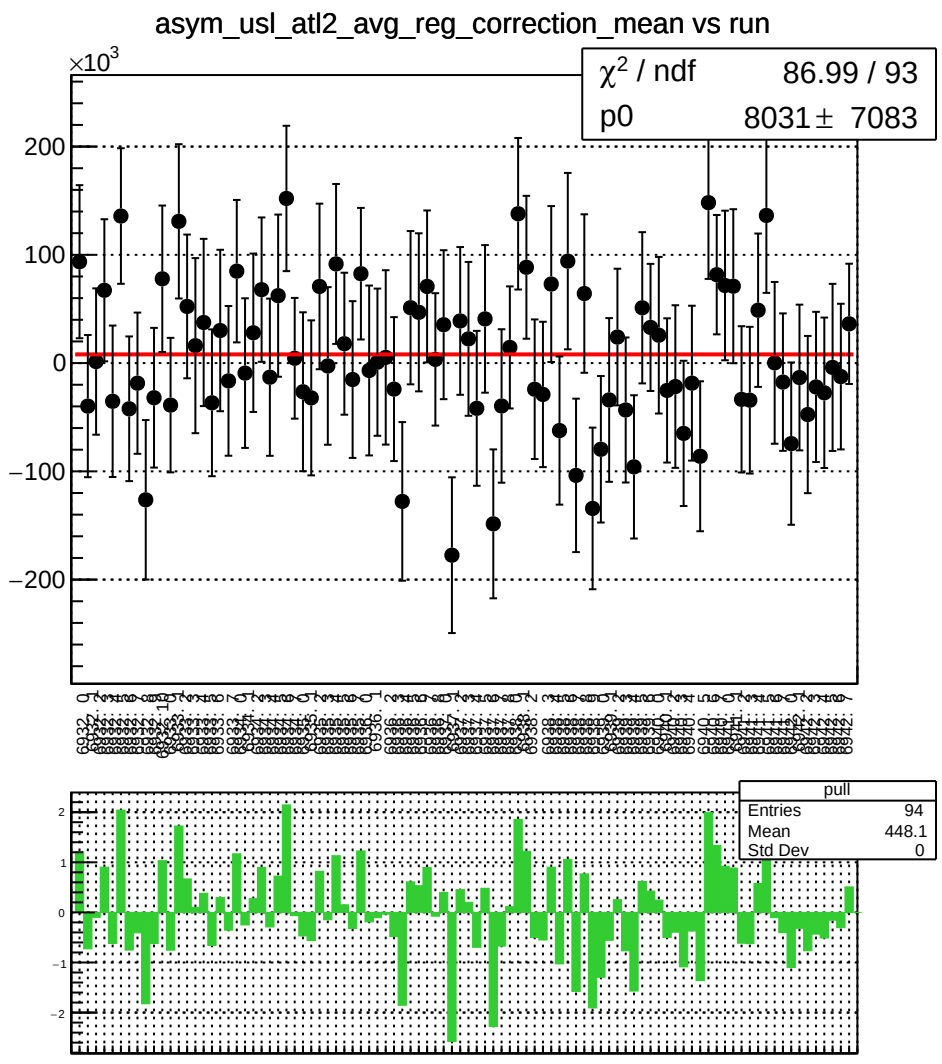

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.73 / 93
p0 −1.116e−14 ± 1.629e−14
pull
Entries 94
Mean 90.15
Std Dev 0
pull1D
Entries 94
Mean 0.1115
Std Dev 0.9142

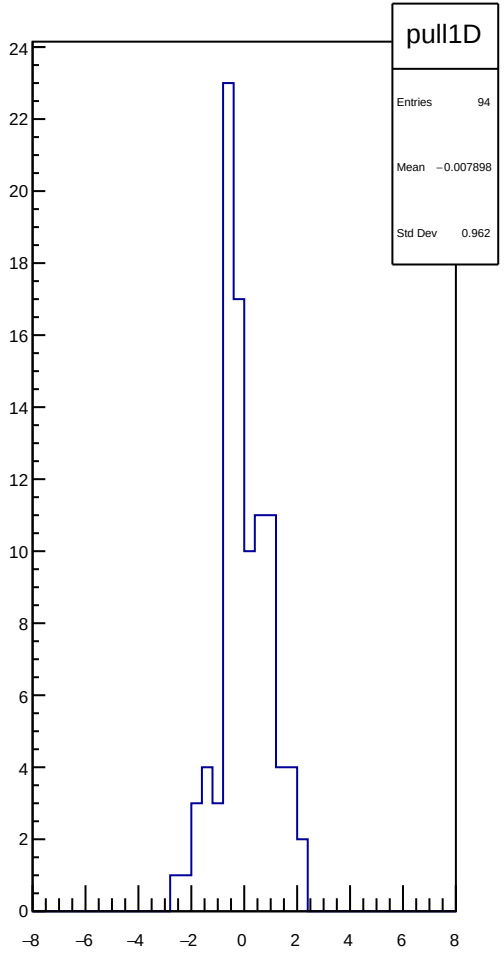

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.56e+05 / 93
p0 1.317e−11 ± 1.152e−14
90
80
70
60
50
40
30
20
10

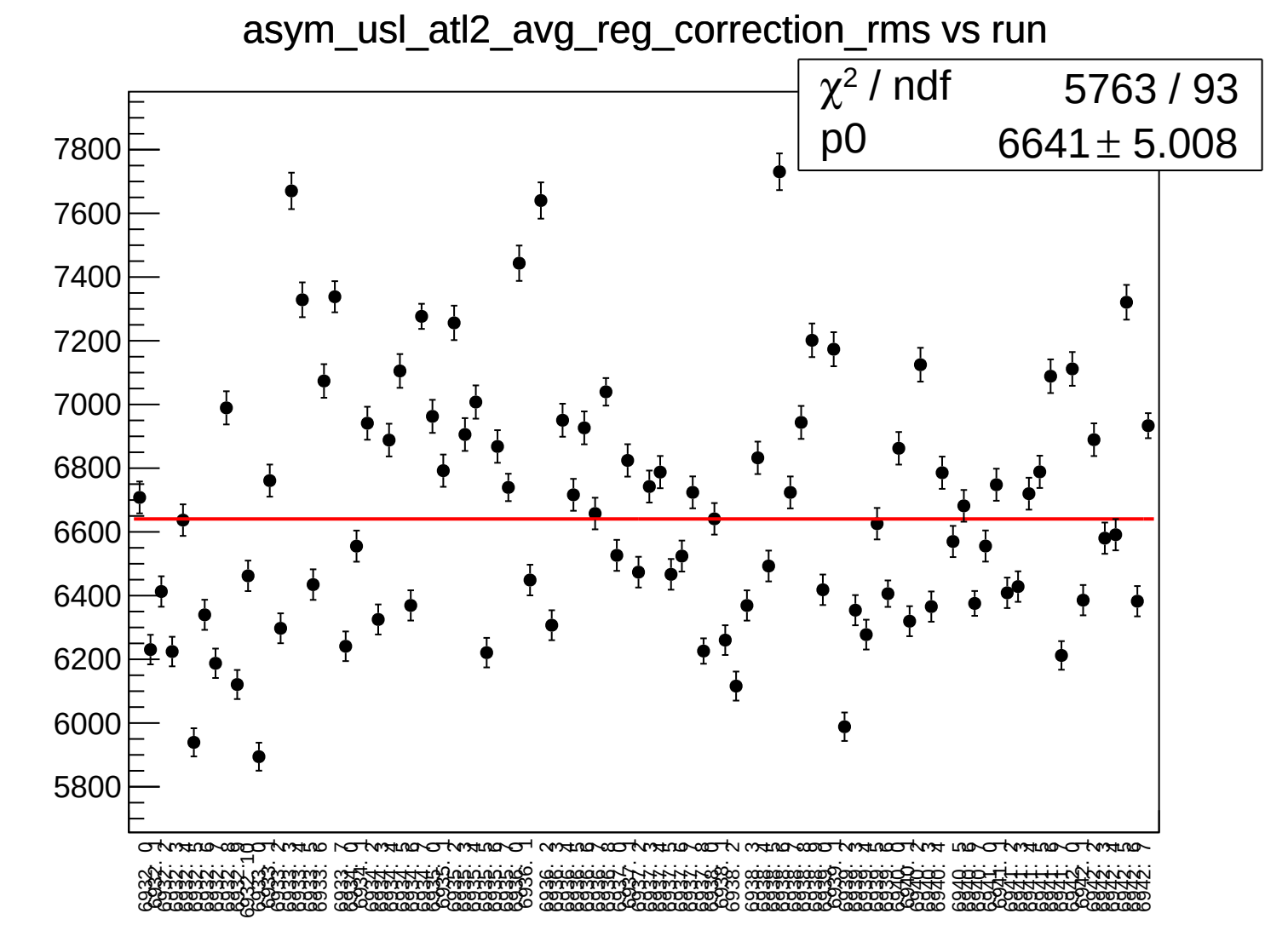

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.28 / 93
p0 −1098 ± 1696
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −760.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

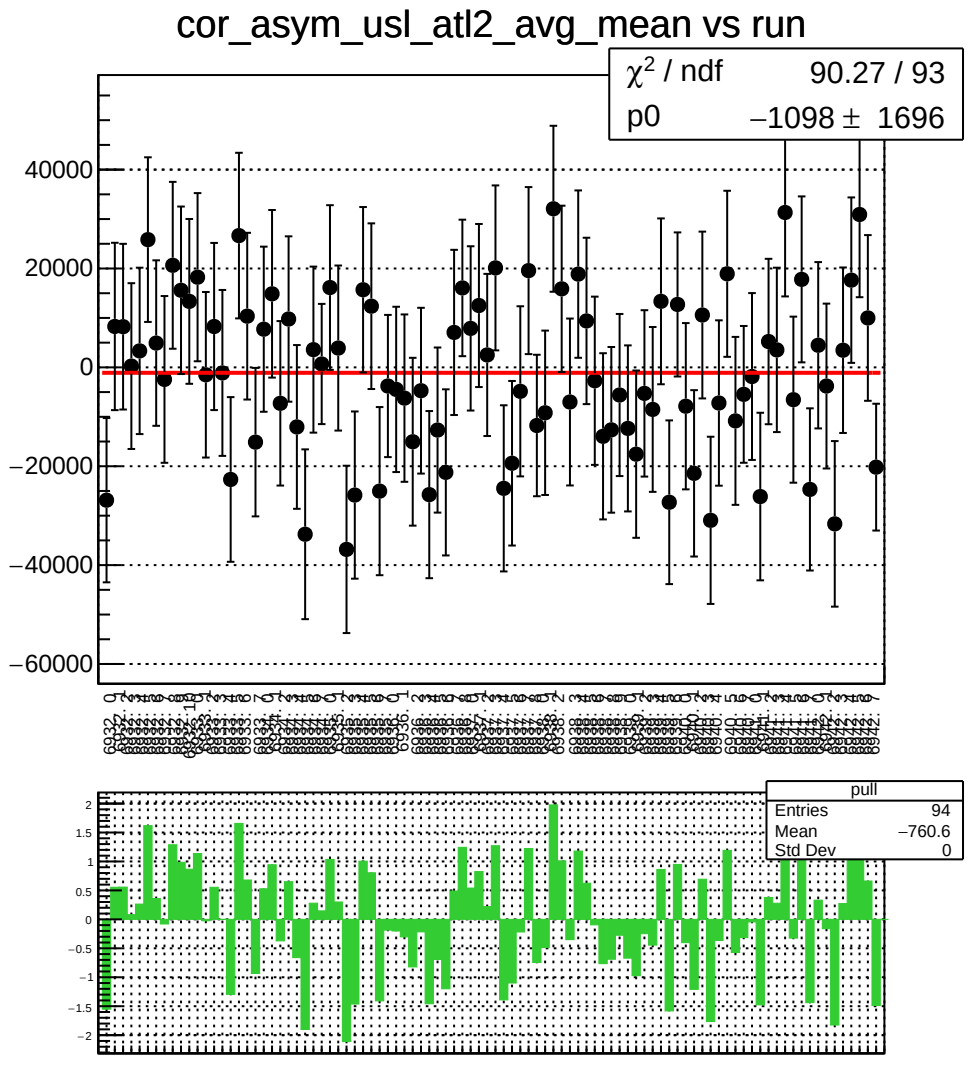

pull1D
Entries 94
Mean 0.00312
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

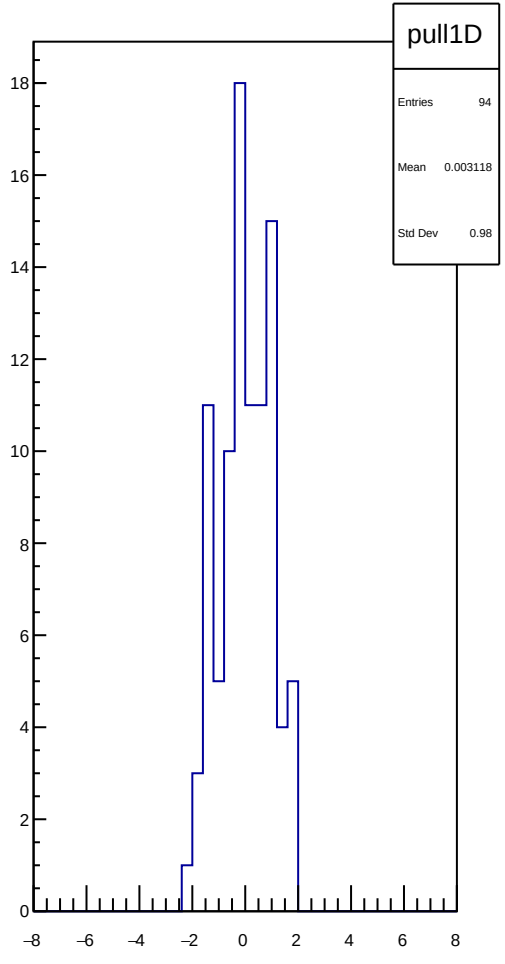

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 103.2 / 93
p0 1593 ± 1.2
1640
1620
1600
1580
1560
1540

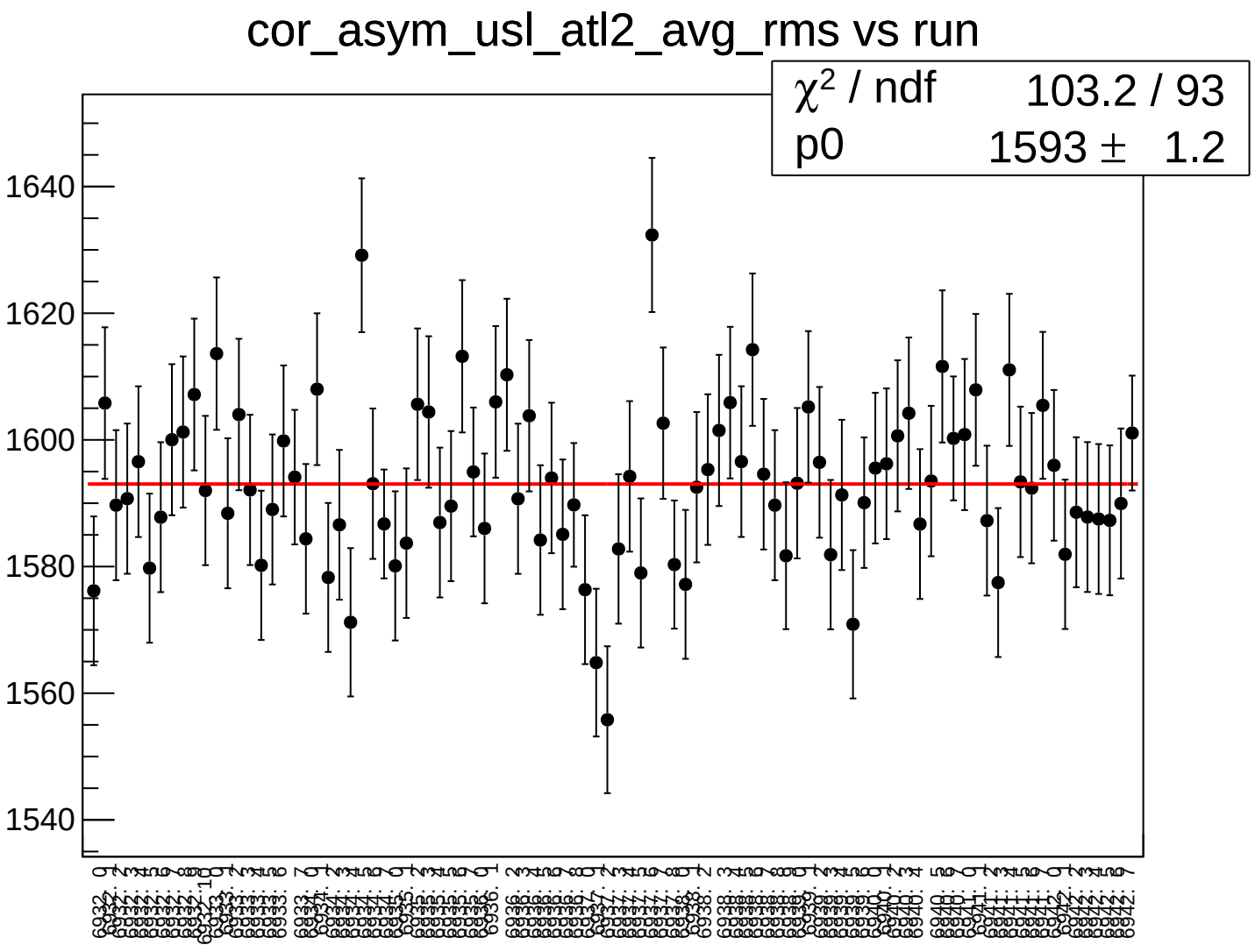

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 86.99 / 93
p0 8031 ± 7083
×10³
200
100
0
−100
−200
pull
Entries 94
Mean 448.1
Std Dev 0
2
1
0
−1
−2

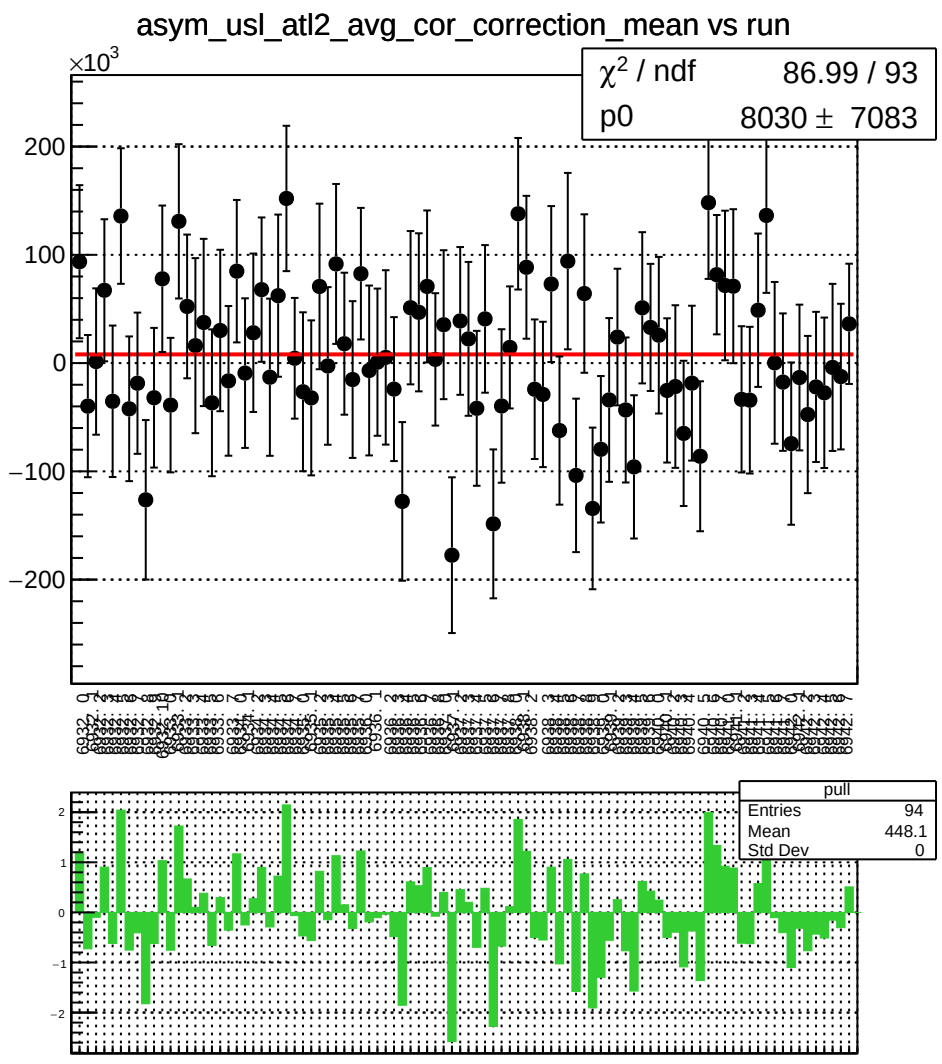

pull1D
Entries 94
Mean −0.007898
Std Dev 0.962
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

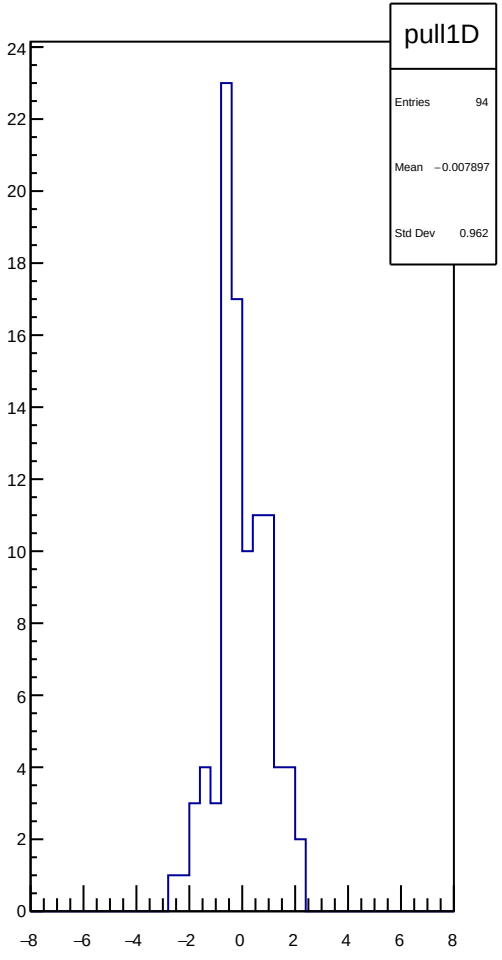

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5763 / 93
p0 6641 ± 5.008
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

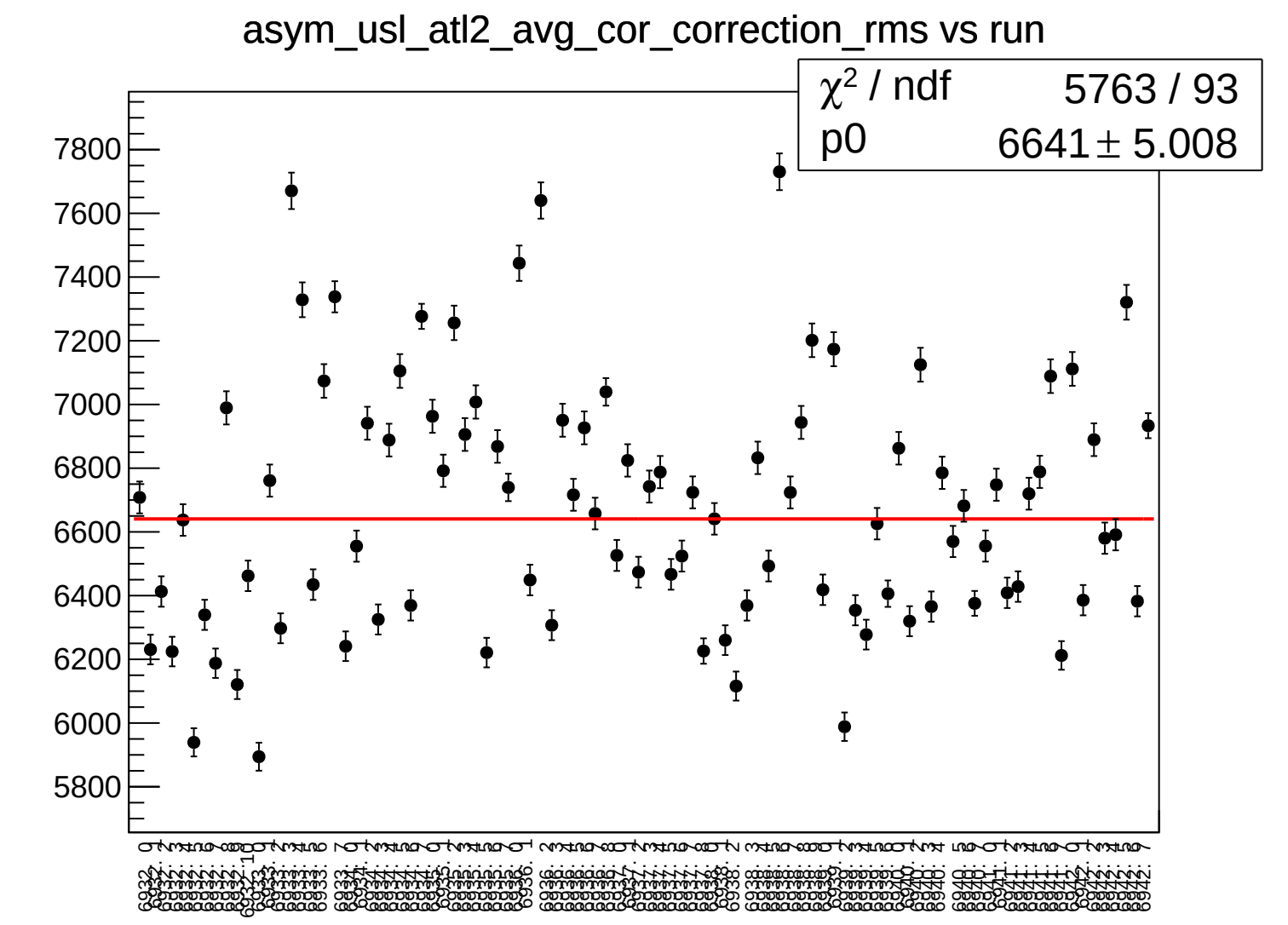

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.27 / 93
p0 −1098 ± 1696
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −760.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

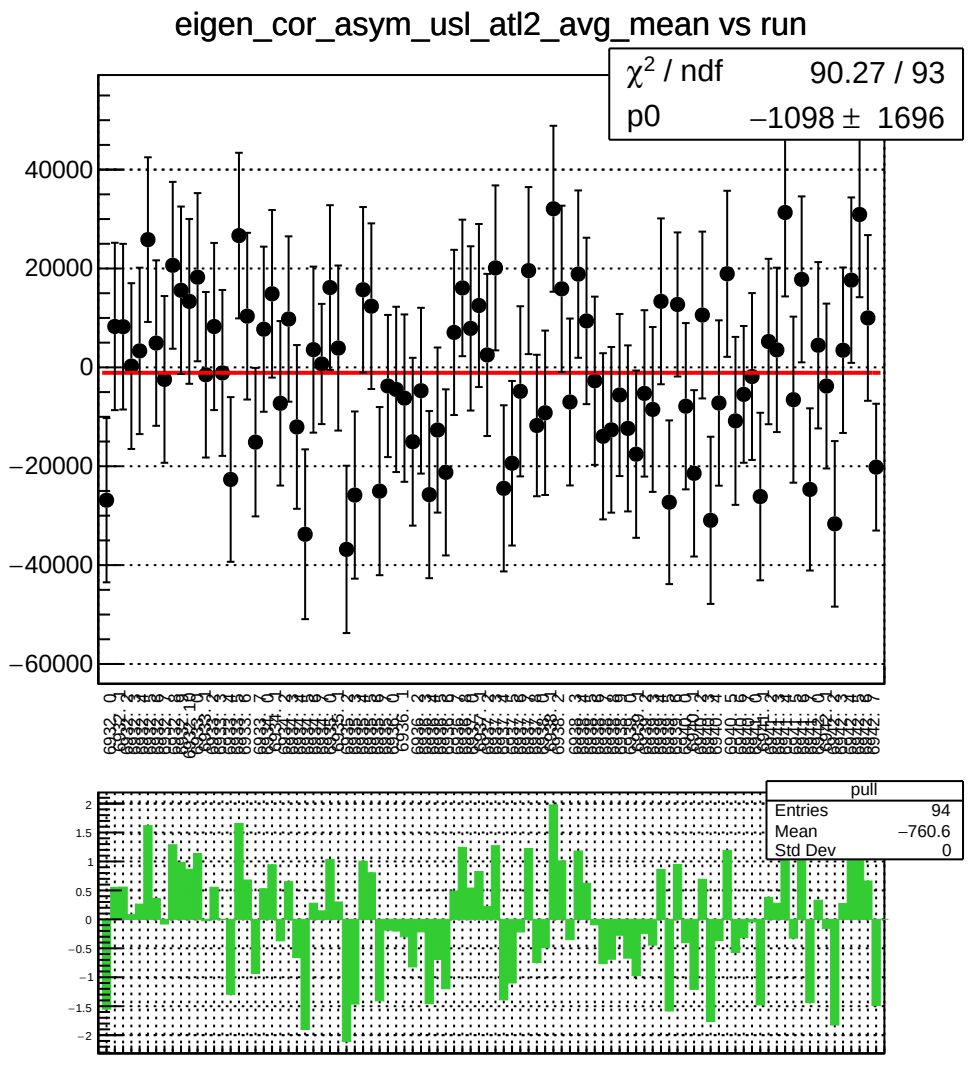

pull1D
Entries 94
Mean 0.003118
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

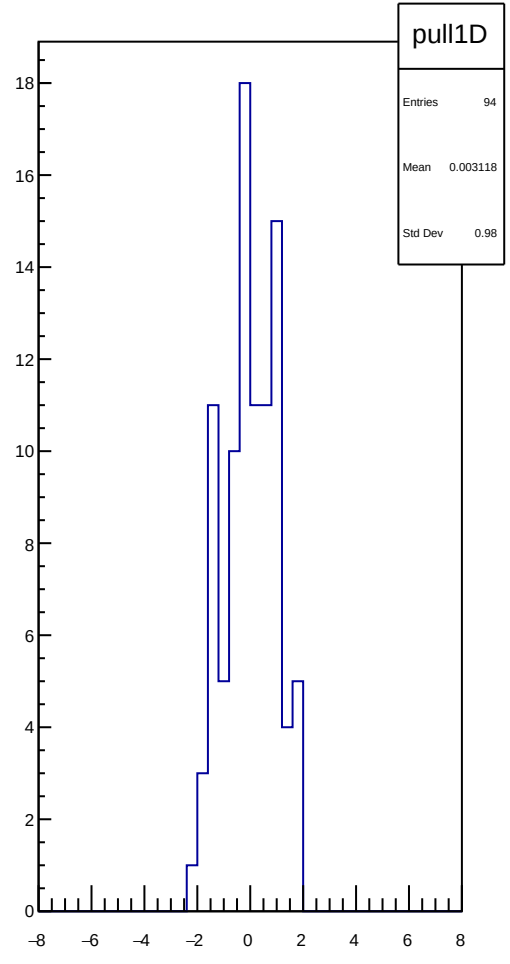

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 103.2 / 93
p0 1593 ± 1.2
1640
1620
1600
1580
1560
1540

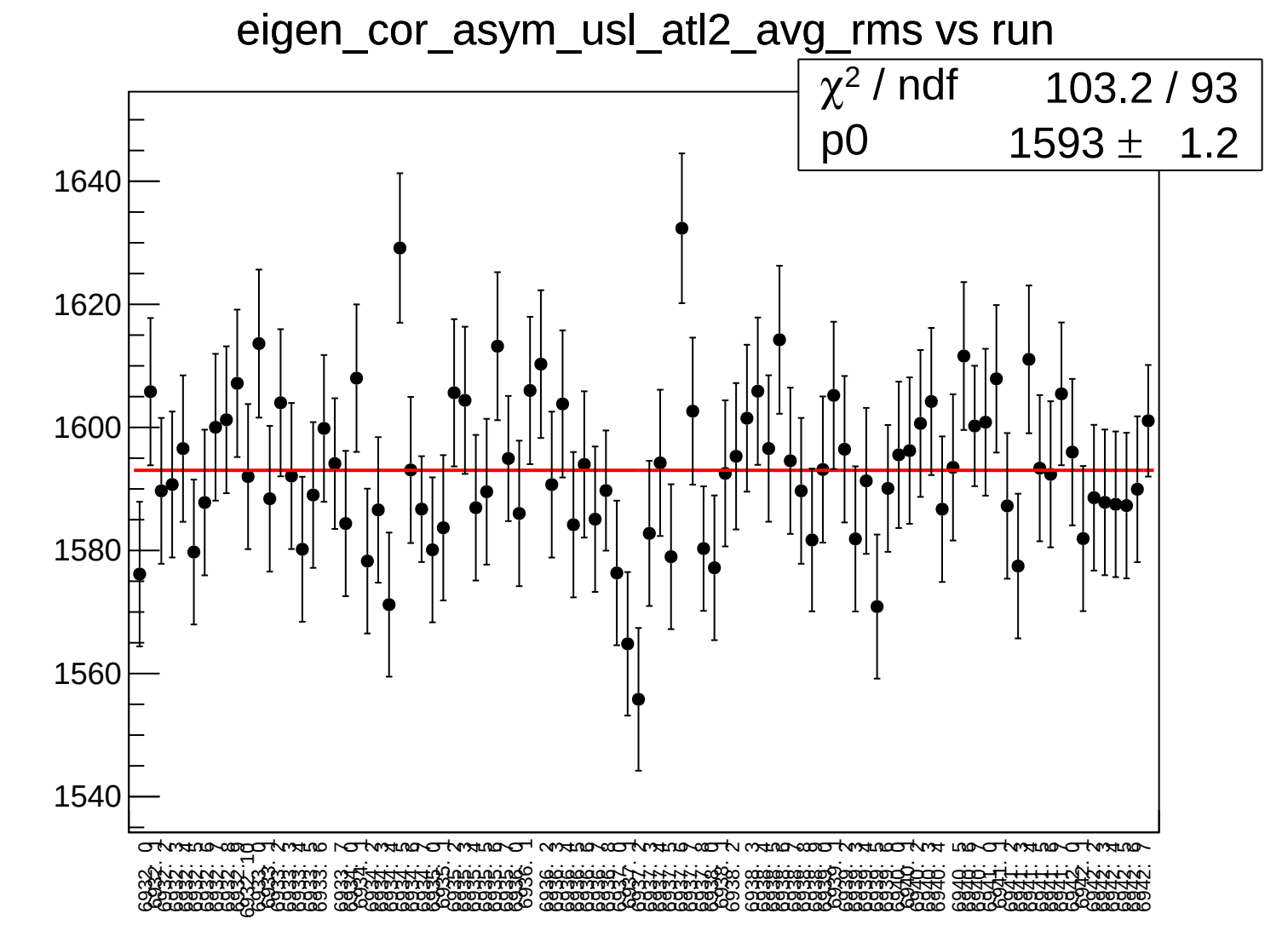

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.99 / 93
p0 8030 ± 7083
200
100
0
−100
−200
pull
Entries 94
Mean 448.1
Std Dev 0
2
1
0
−1
−2

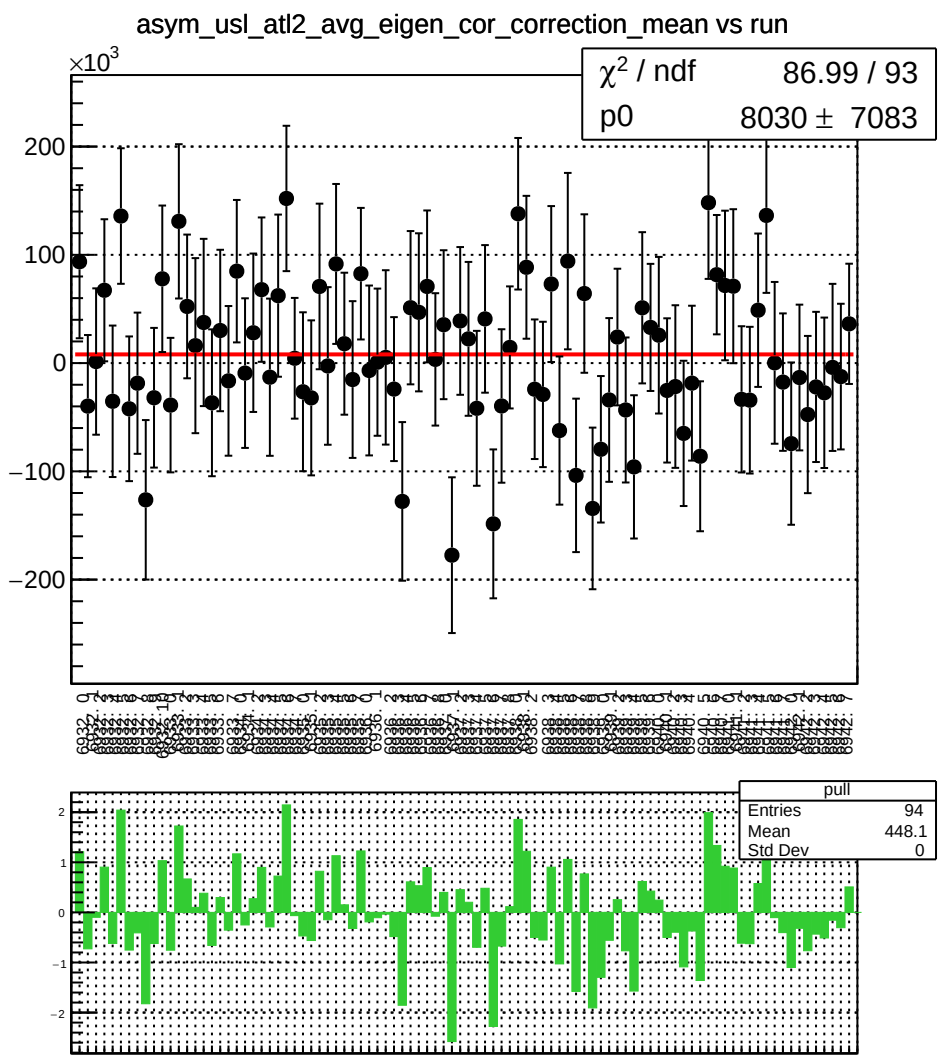

pull1D
Entries 94
Mean −0.007897
Std Dev 0.962
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

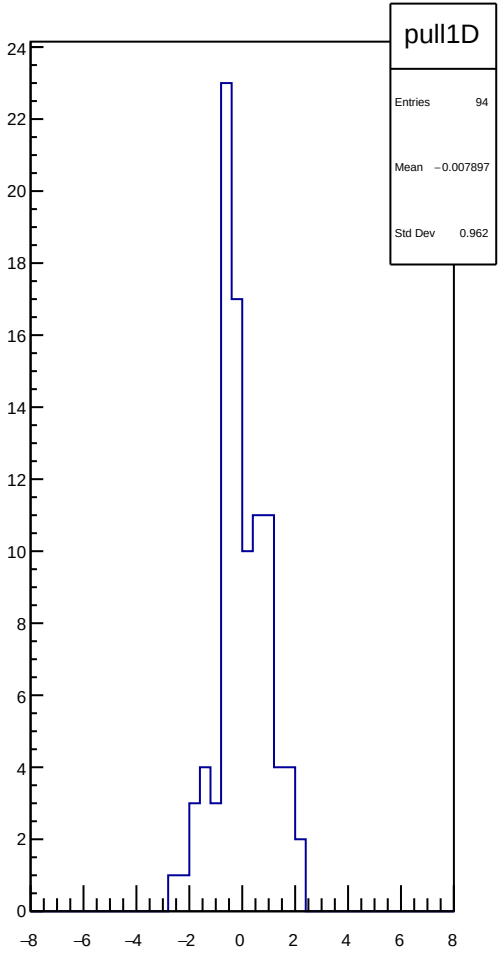

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5763 / 93
p0 6641 ± 5.008
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

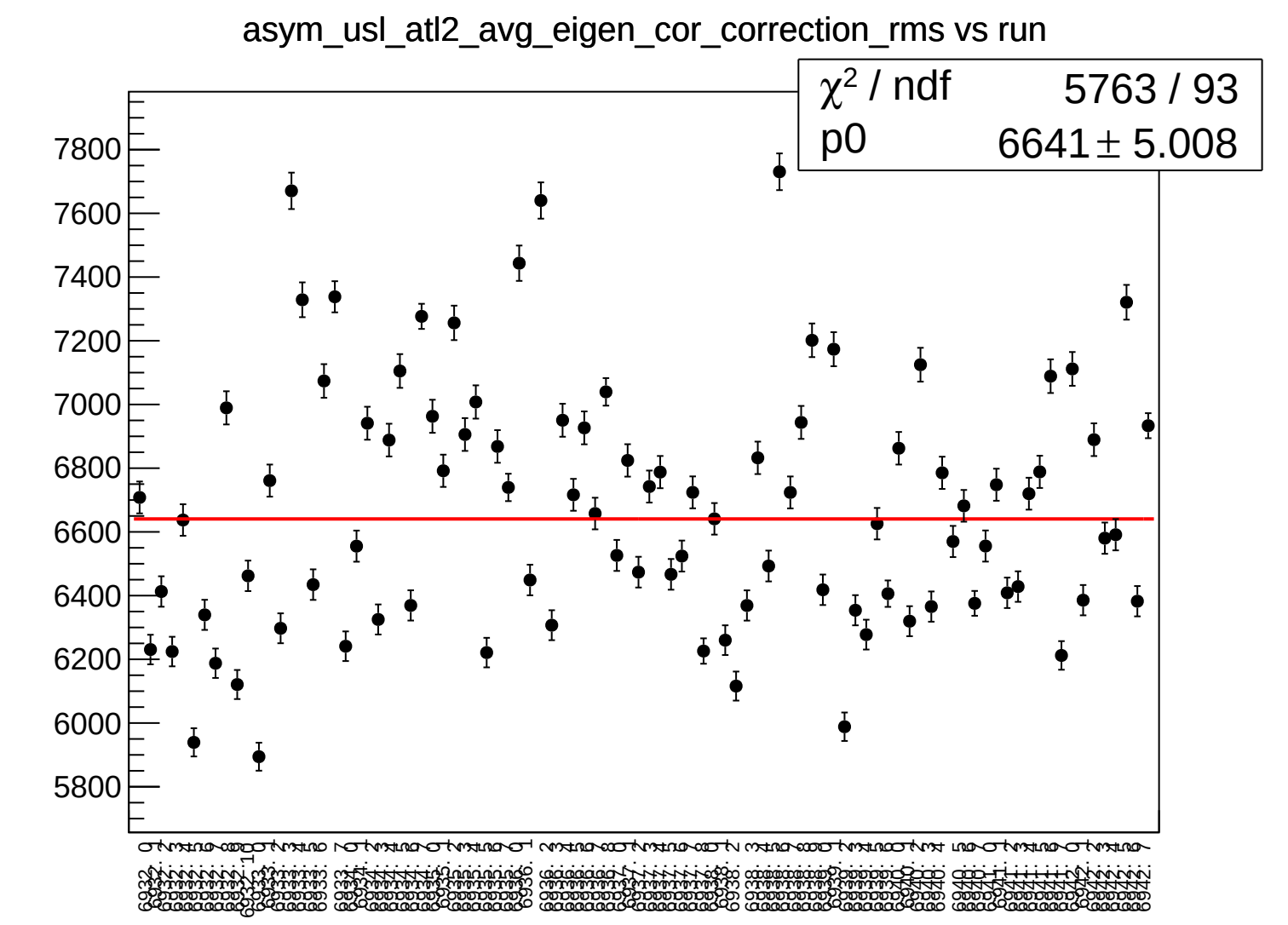

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 90.27 / 93
p0 −1098 ± 1696
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −760.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

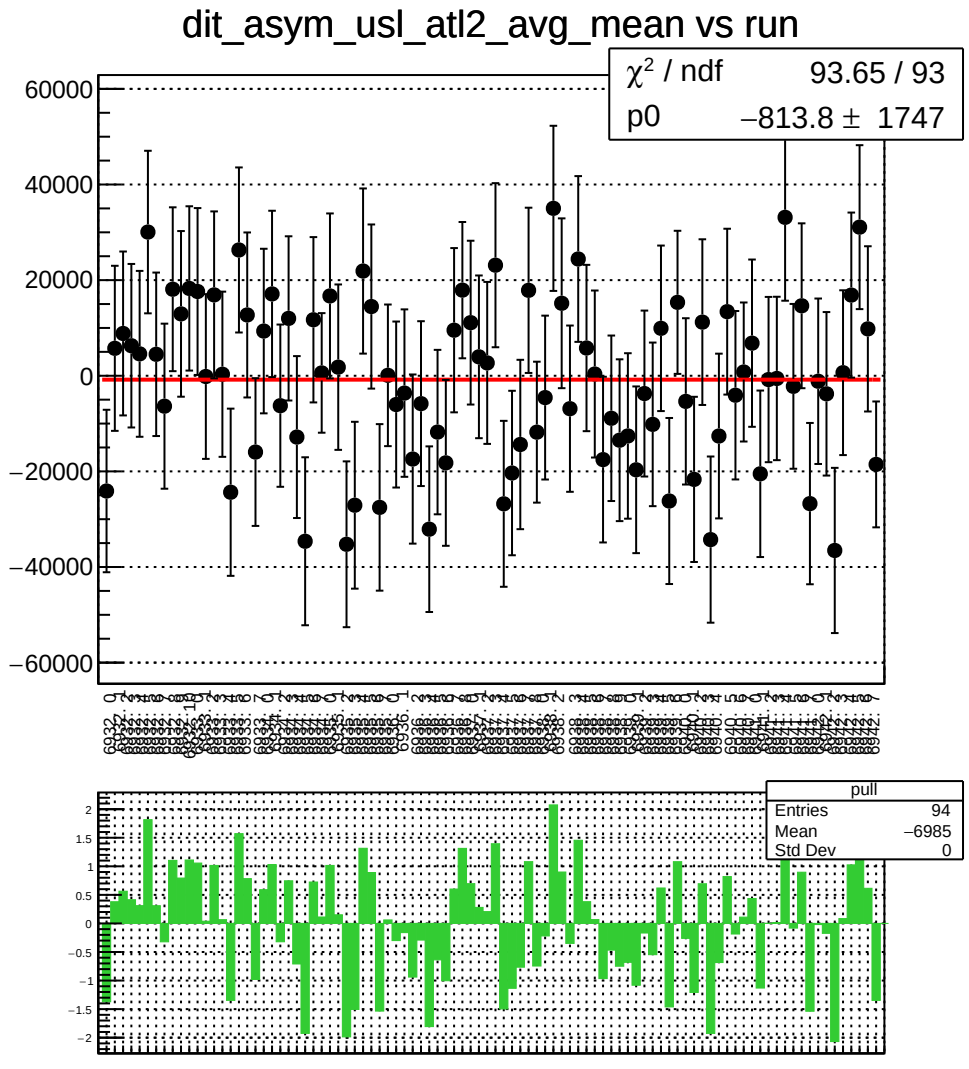

pull1D
Entries 94
Mean 0.003118
Std Dev 0.98
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

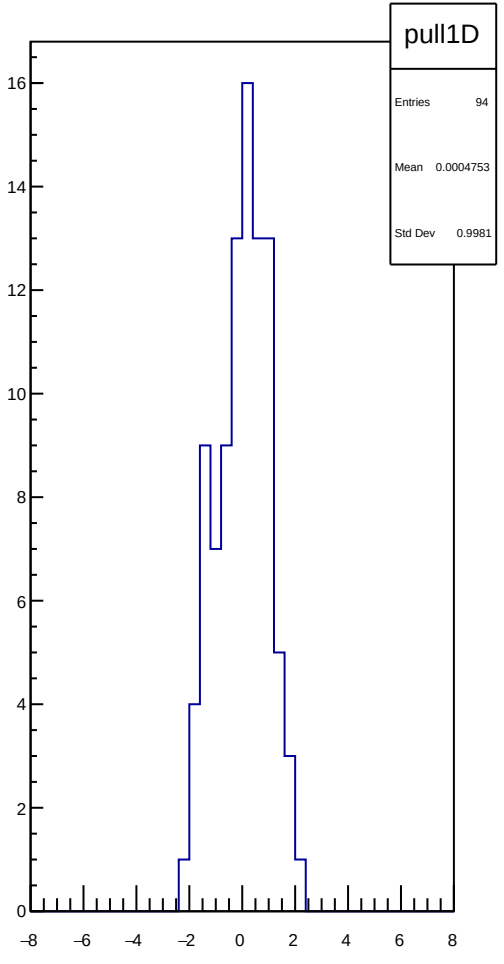

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 103.2 / 93
p0 1593 ± 1.2
1640
1620
1600
1580
1560
1540

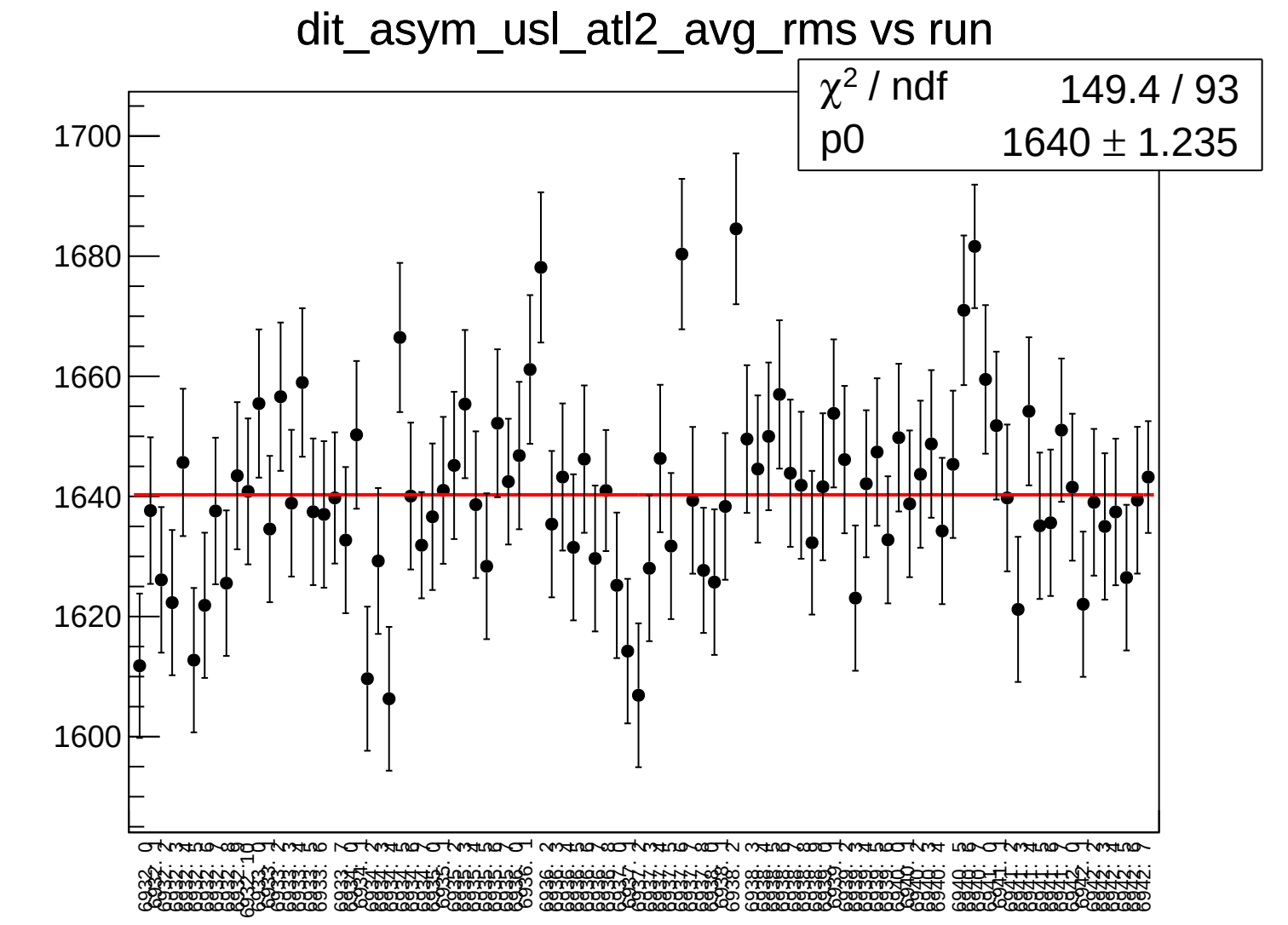

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.99 / 93
p0 8030 ± 7083
pull
Entries 94
Mean 448.1
Std Dev 0

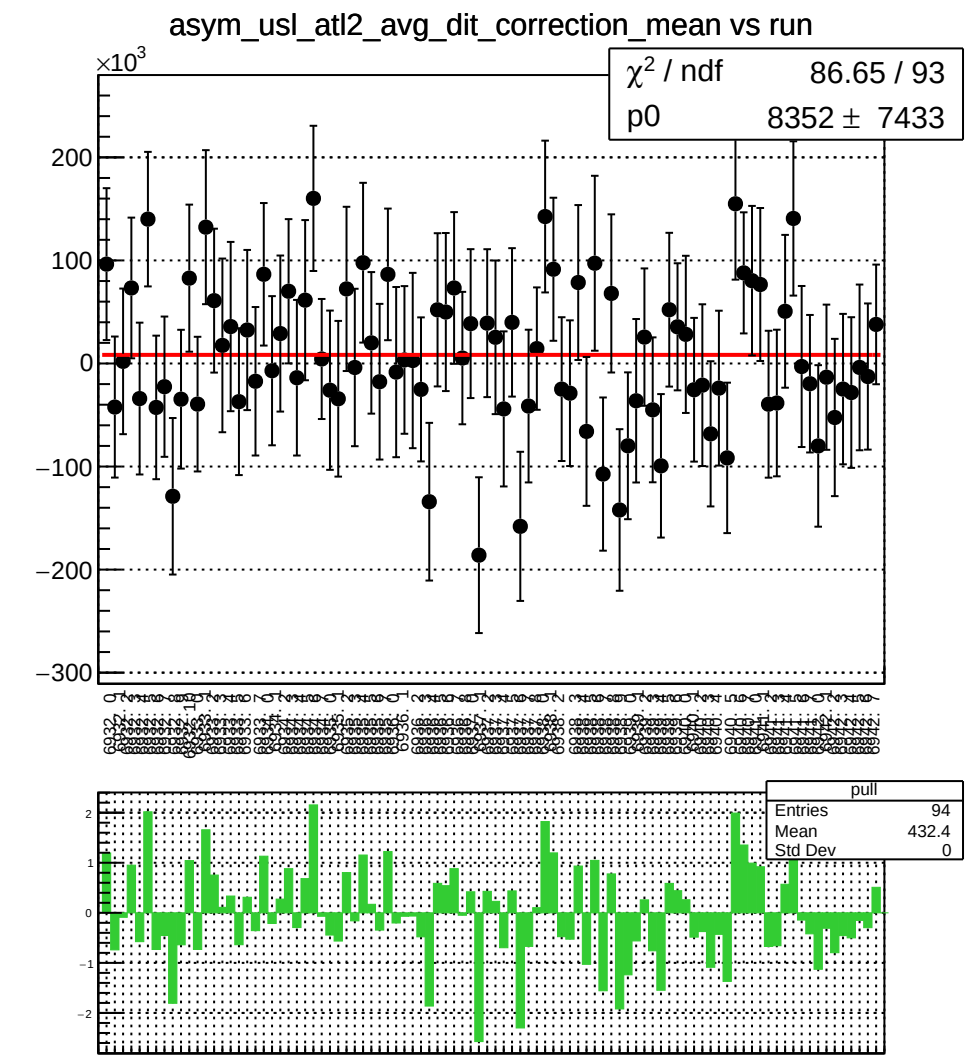

pull1D
Entries 94
Mean −0.007897
Std Dev 0.962

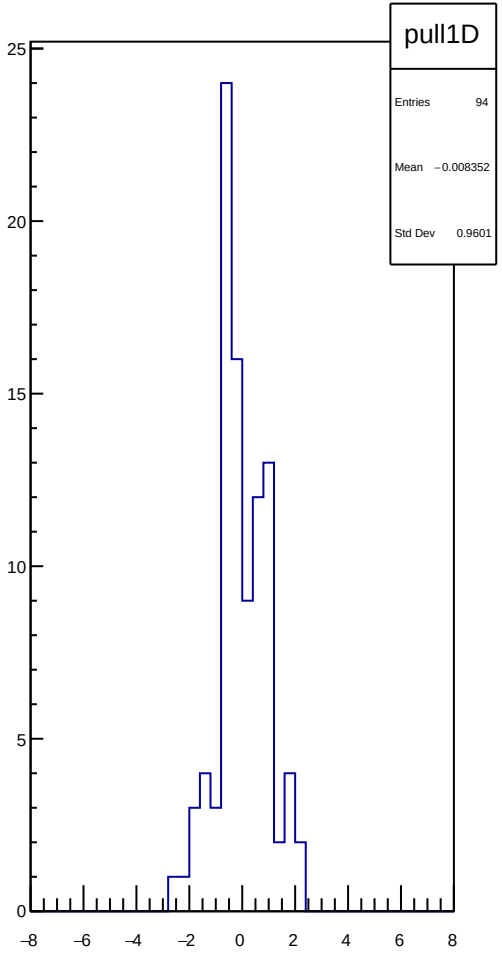

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5763 / 93
p0 6641 ± 5.008
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

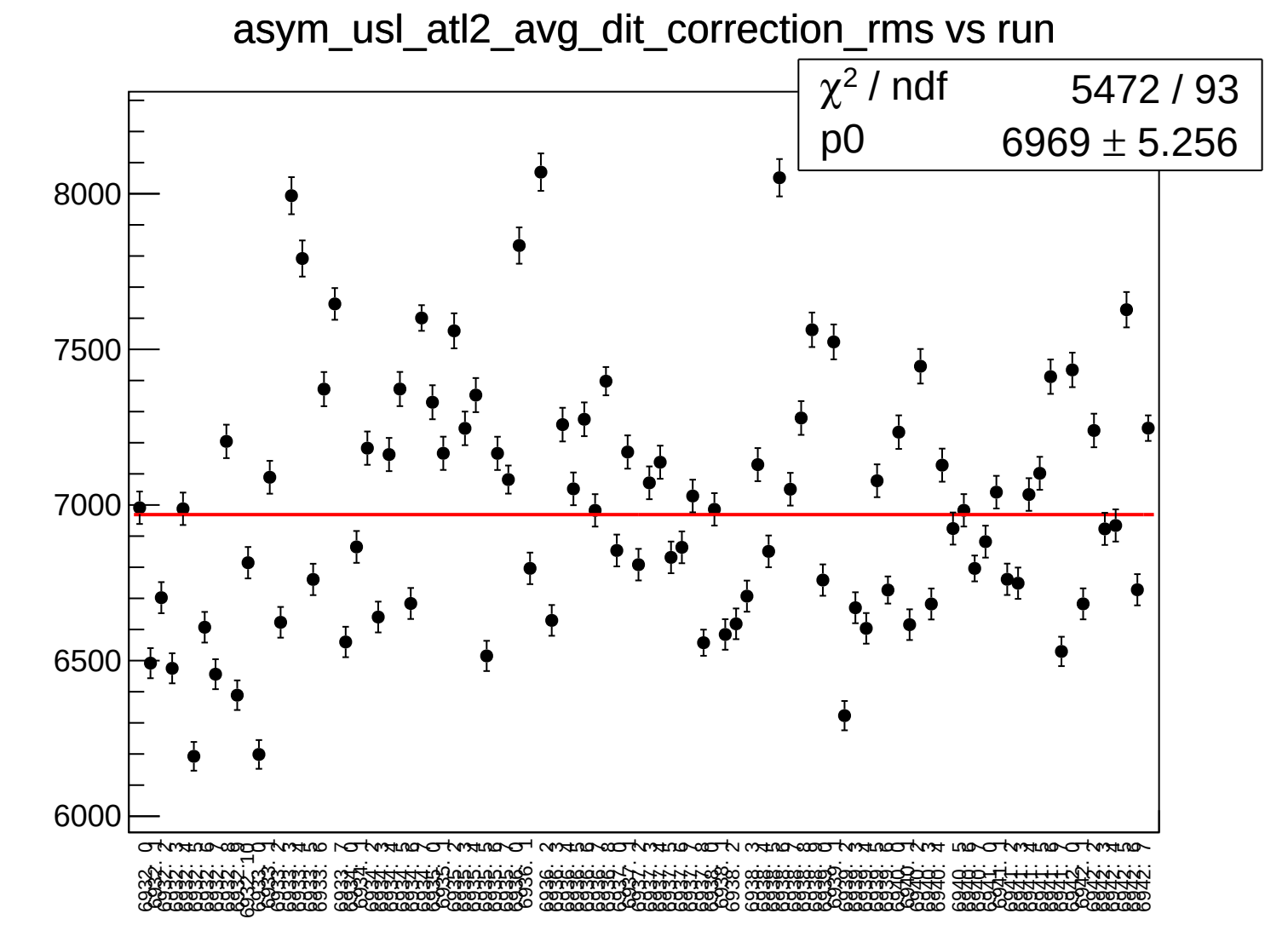

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.65 / 93
p0 −813.8 ± 1747
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −6985
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

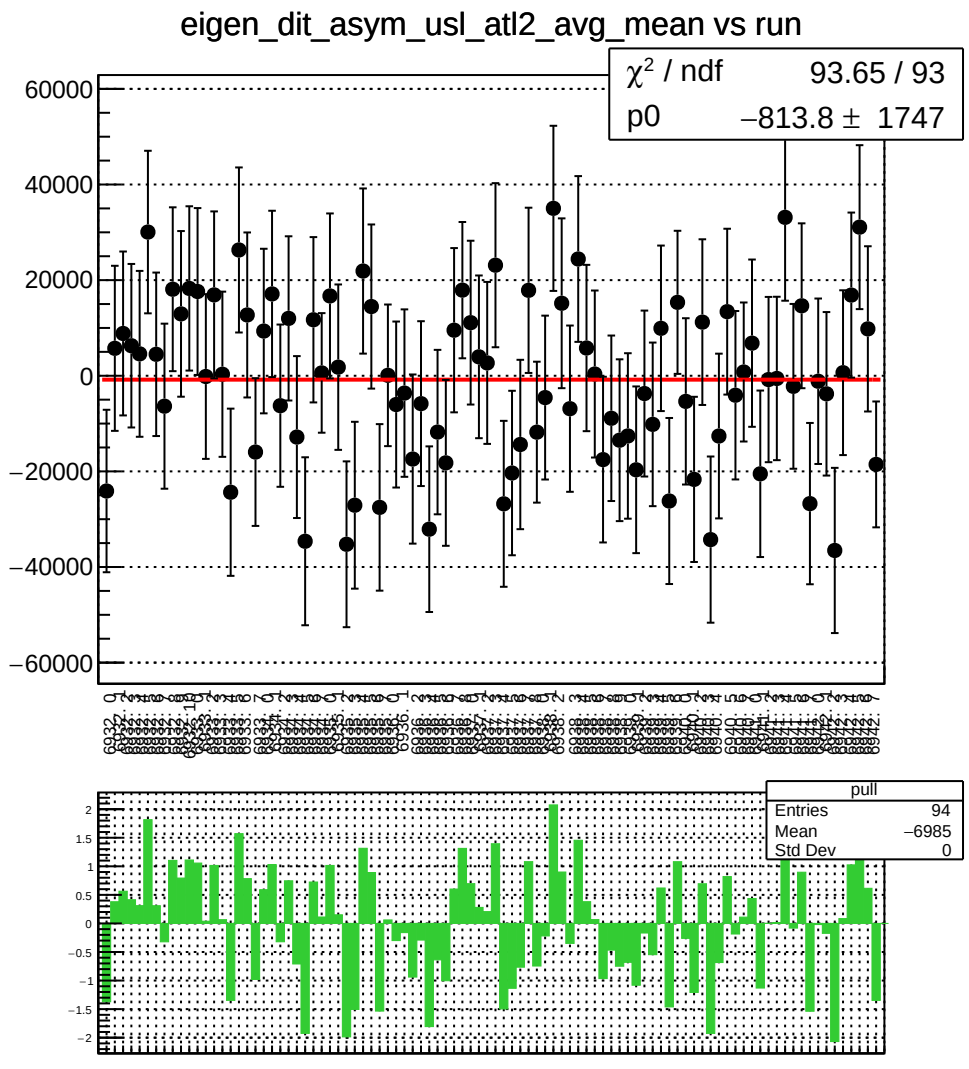

pull1D
Entries 94
Mean 0.0004753
Std Dev 0.9981
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

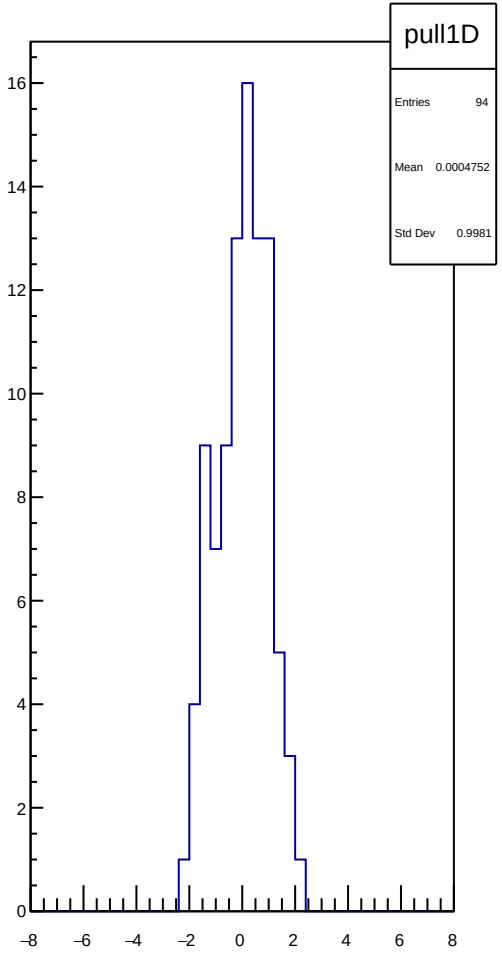

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 149.4 / 93
p0 1640 ± 1.235
1700
1680
1660
1640
1620
1600

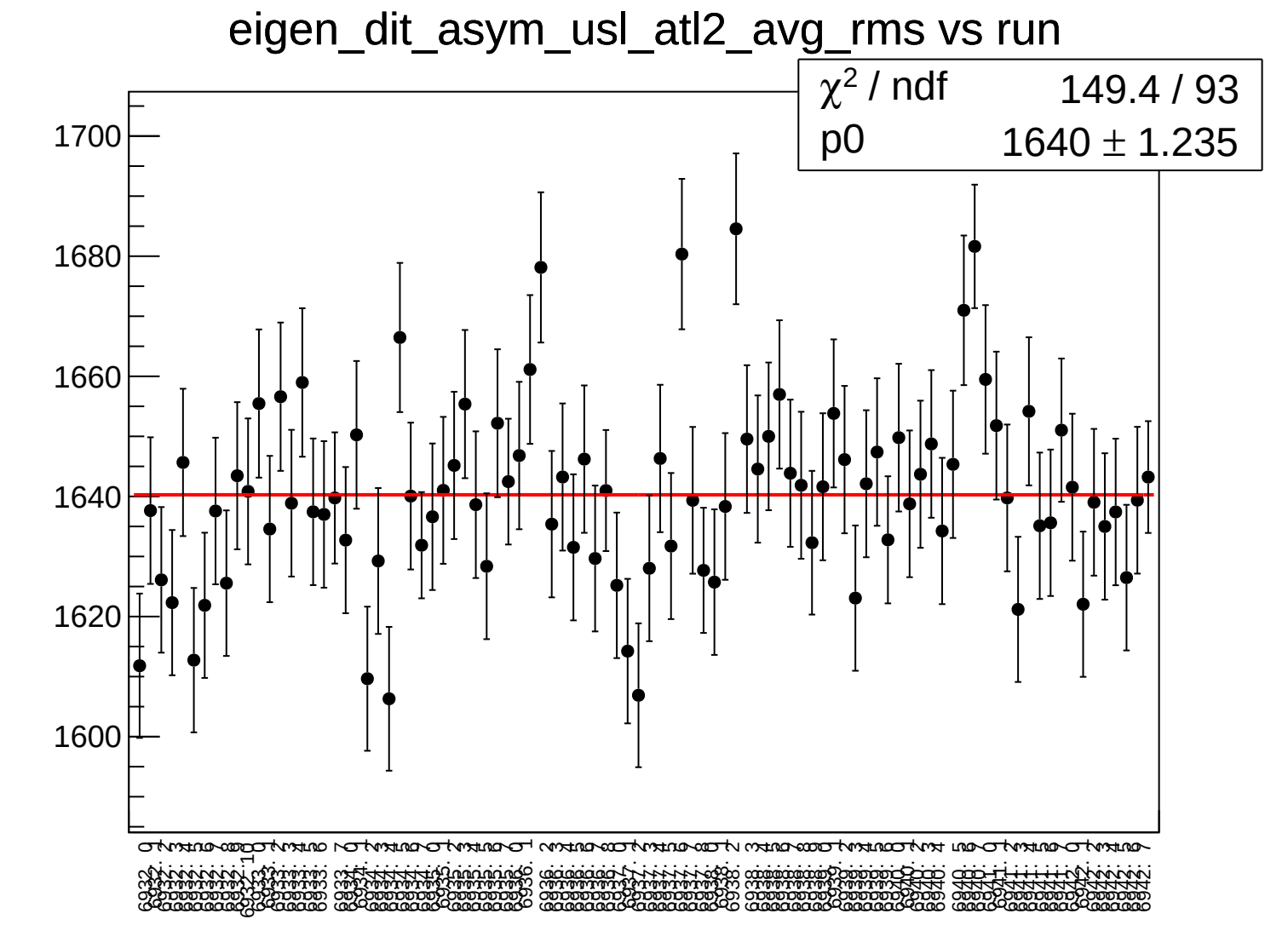

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 86.65 / 93
p0 8352 ± 7433
200
100
0
−100
−200
−300
pull
Entries 94
Mean 432.4
Std Dev 0
2
1
0
−1
−2

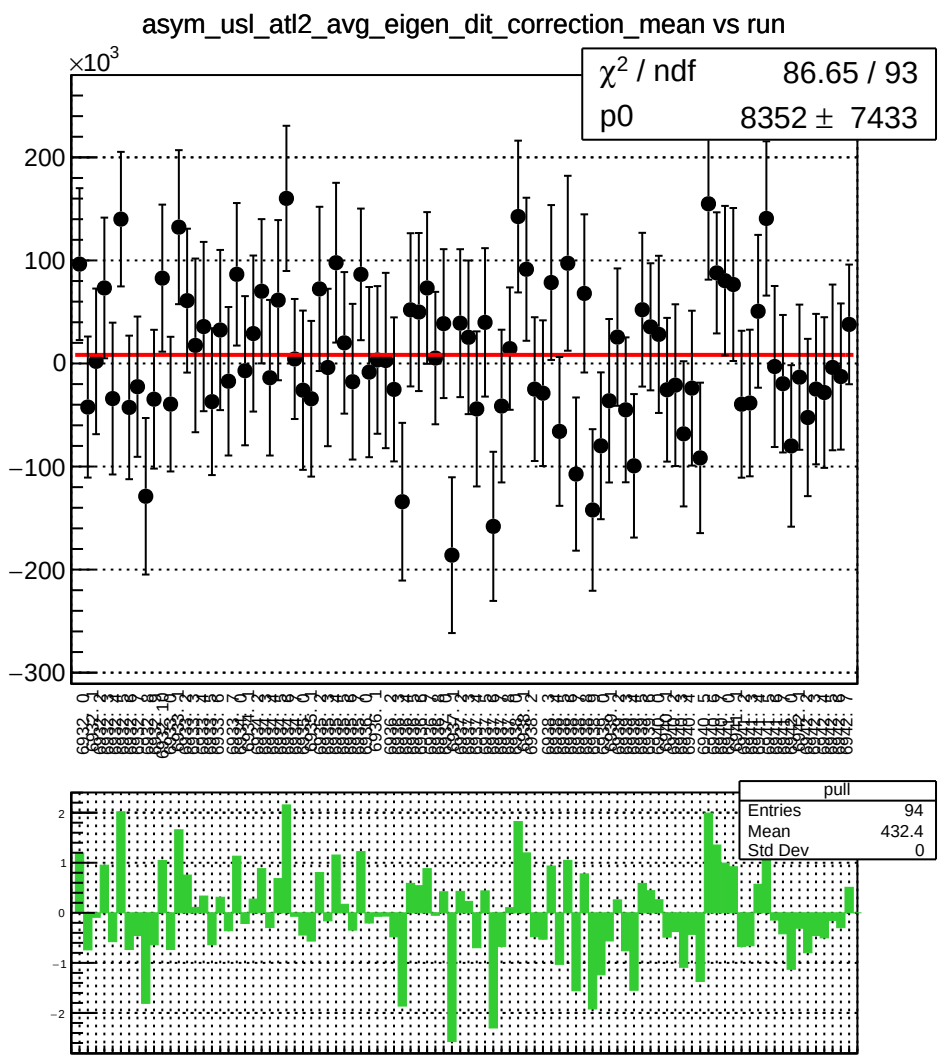

pull1D
Entries 94
Mean −0.008352
Std Dev 0.9601
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

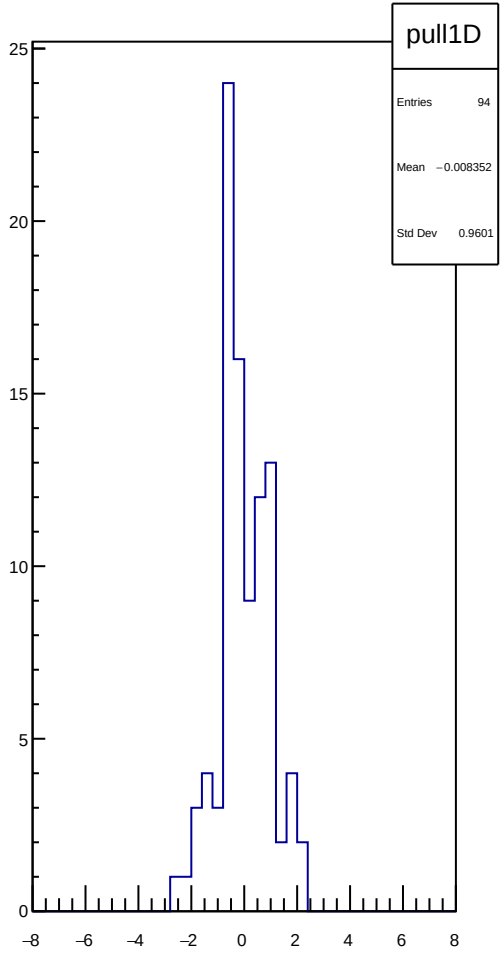

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 5472 / 93
p0 6969 ± 5.256
8000
7500
7000
6500
6000

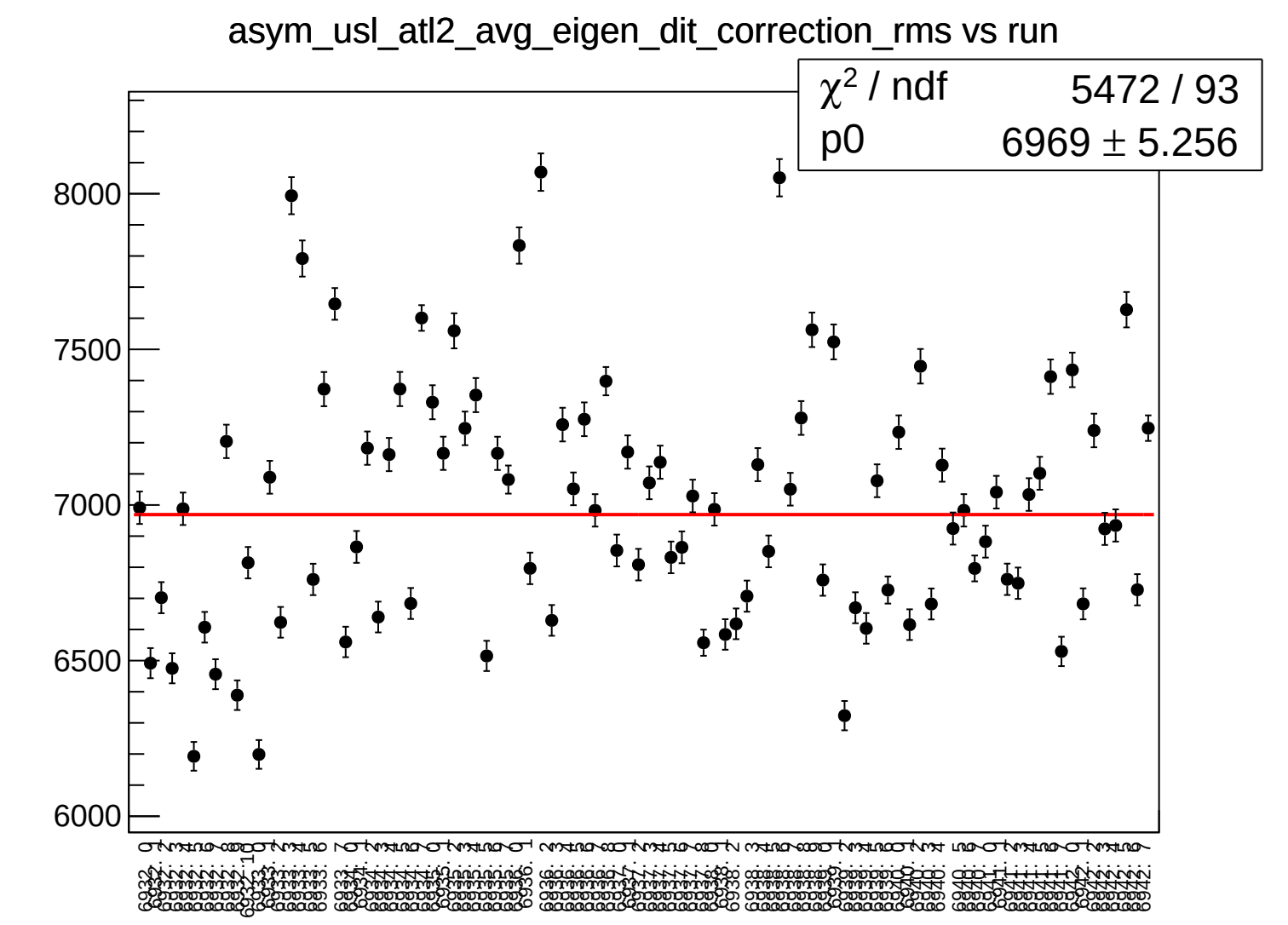

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.65 / 93
p0 −813.8 ± 1747
pull
Entries 94
Mean −6985
Std Dev 0

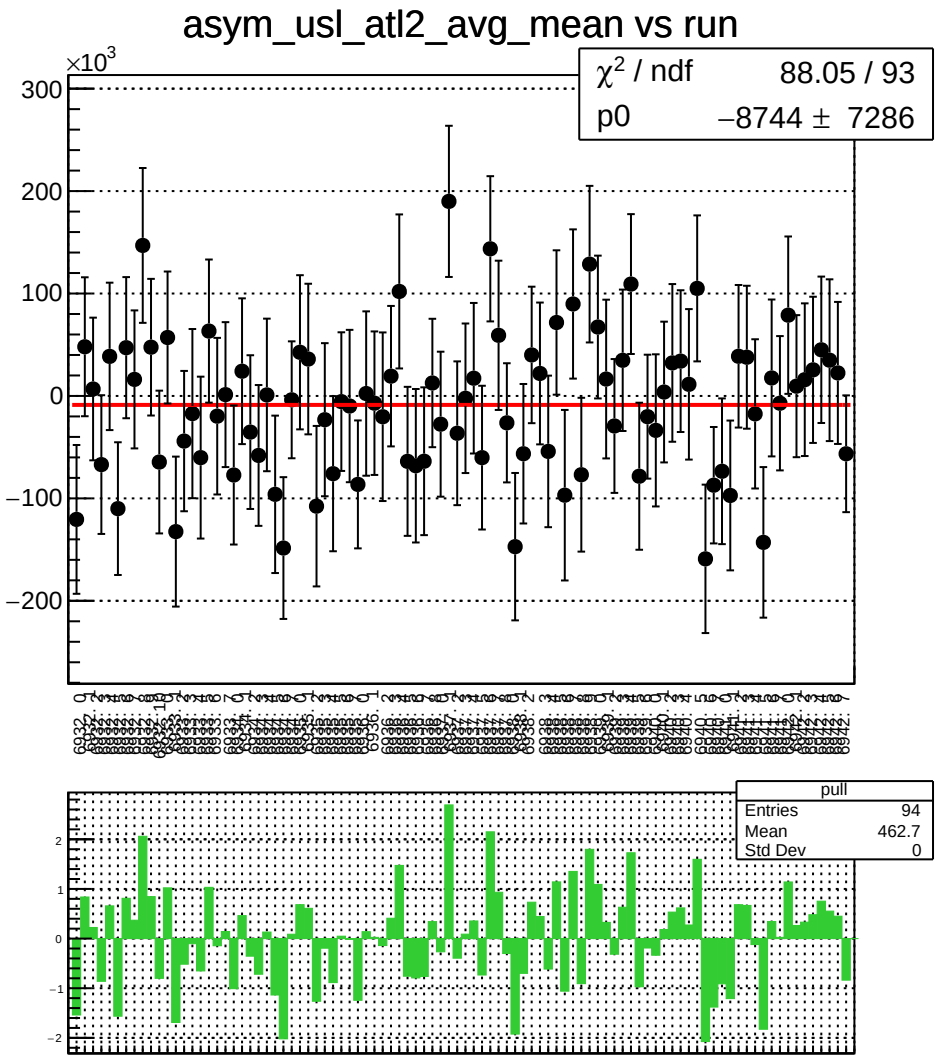

pull1D
Entries 94
Mean 0.0004752
Std Dev 0.9981

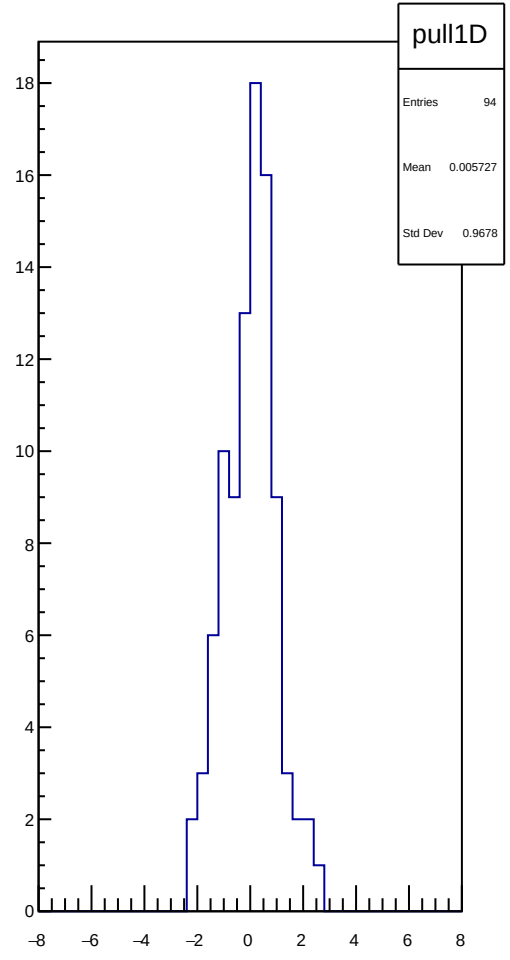

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 149.4 / 93
p0 1640 ± 1.235
1700
1680
1660
1640
1620
1600

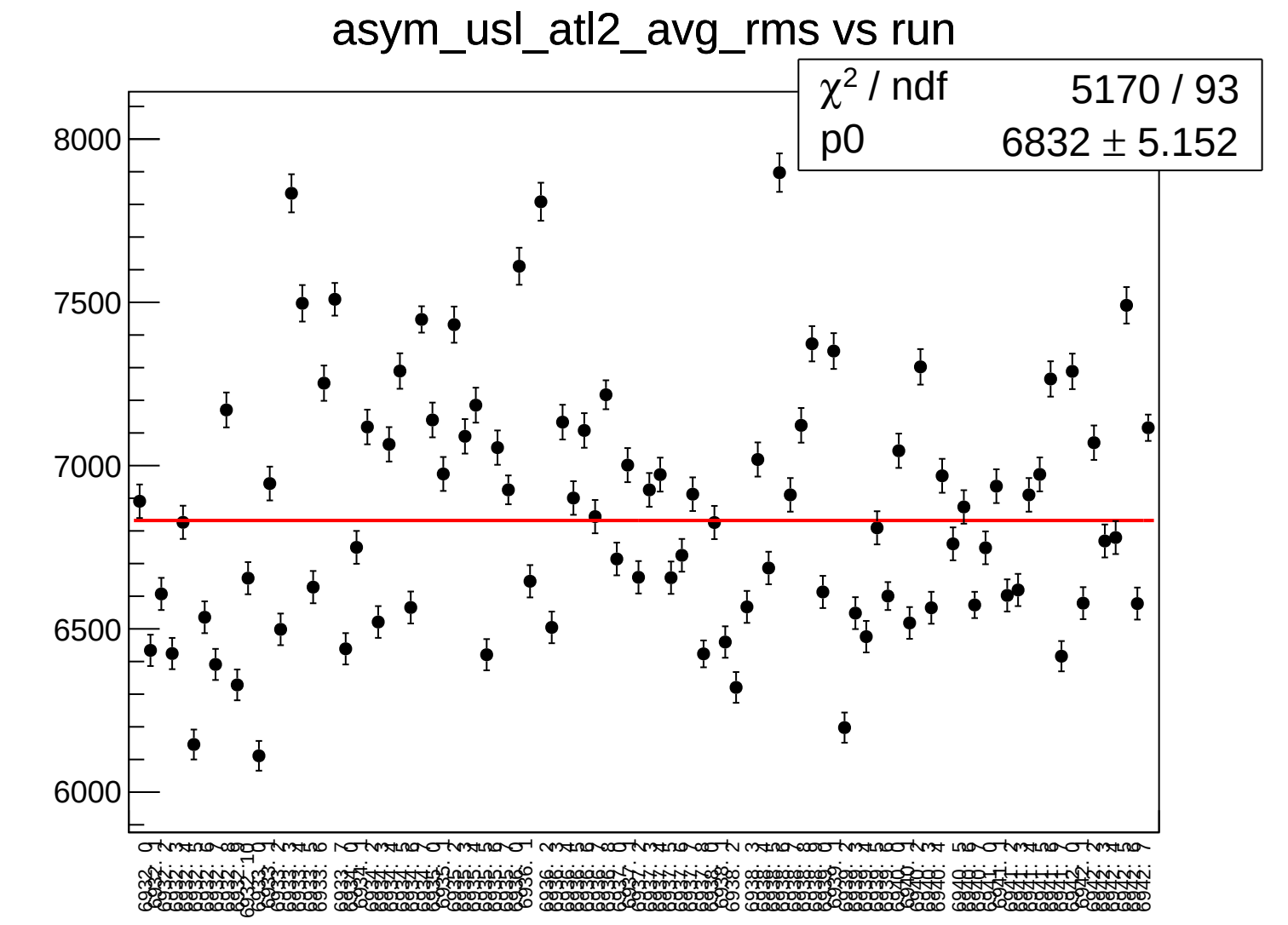

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.65 / 93
p0 8352 ± 7433
200
100
0
−100
−200
−300
pull
Entries 94
Mean 432.4
Std Dev 0
2
1
0
−1
−2

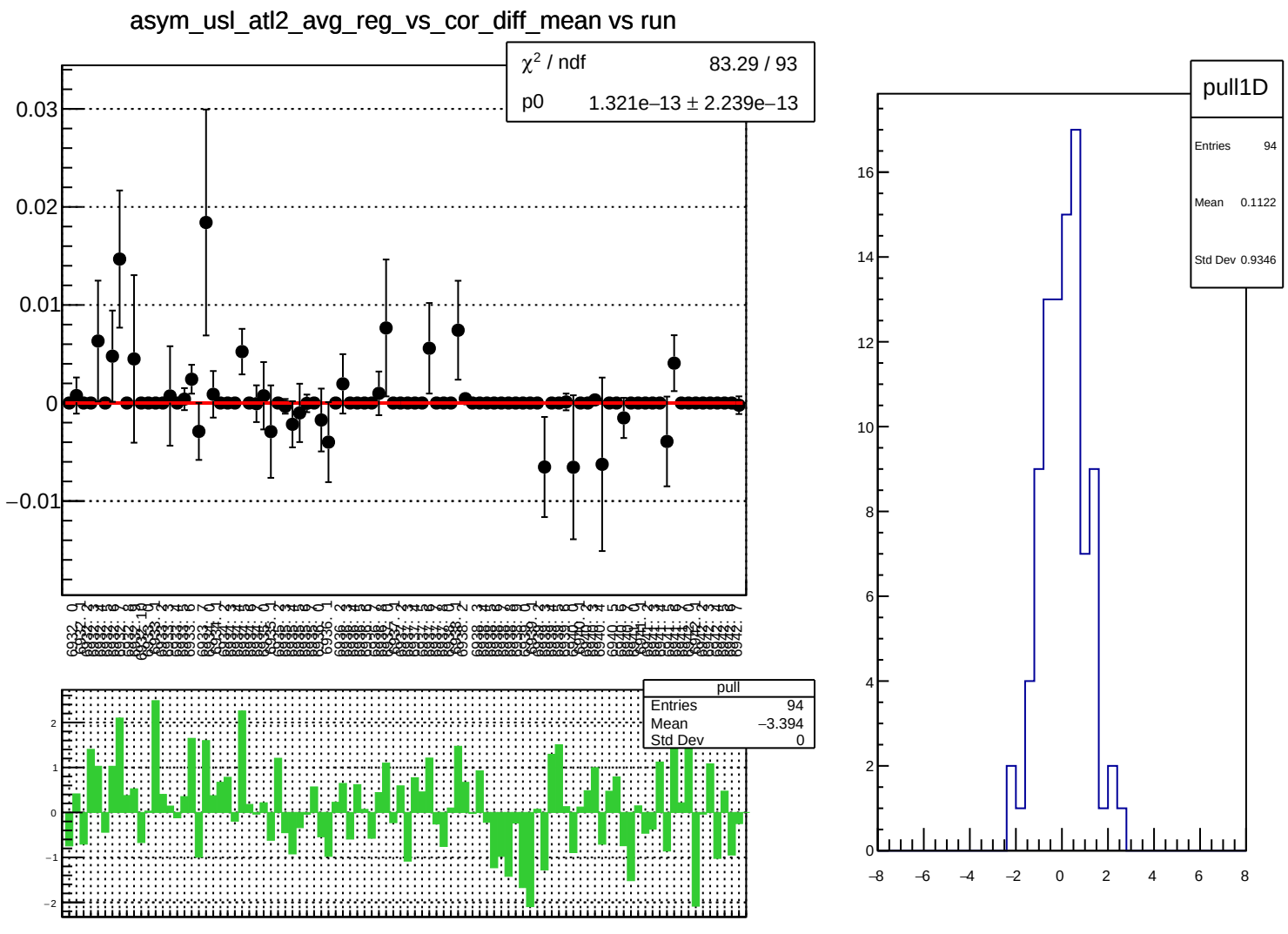

pull1D
Entries 94
Mean −0.008352
Std Dev 0.9601
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

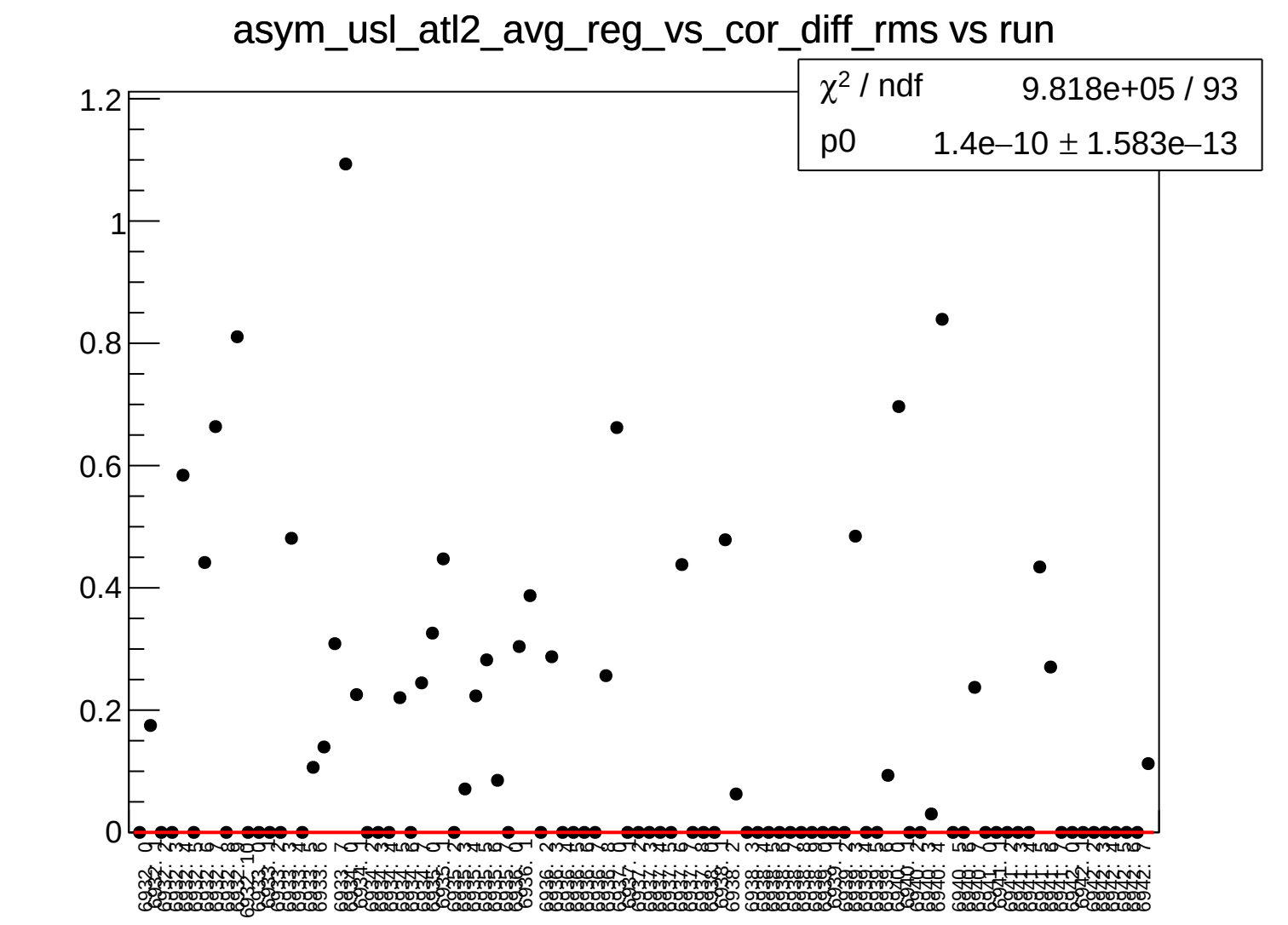

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5472 / 93
p0 6969 ± 5.256
8000
7500
7000
6500
6000

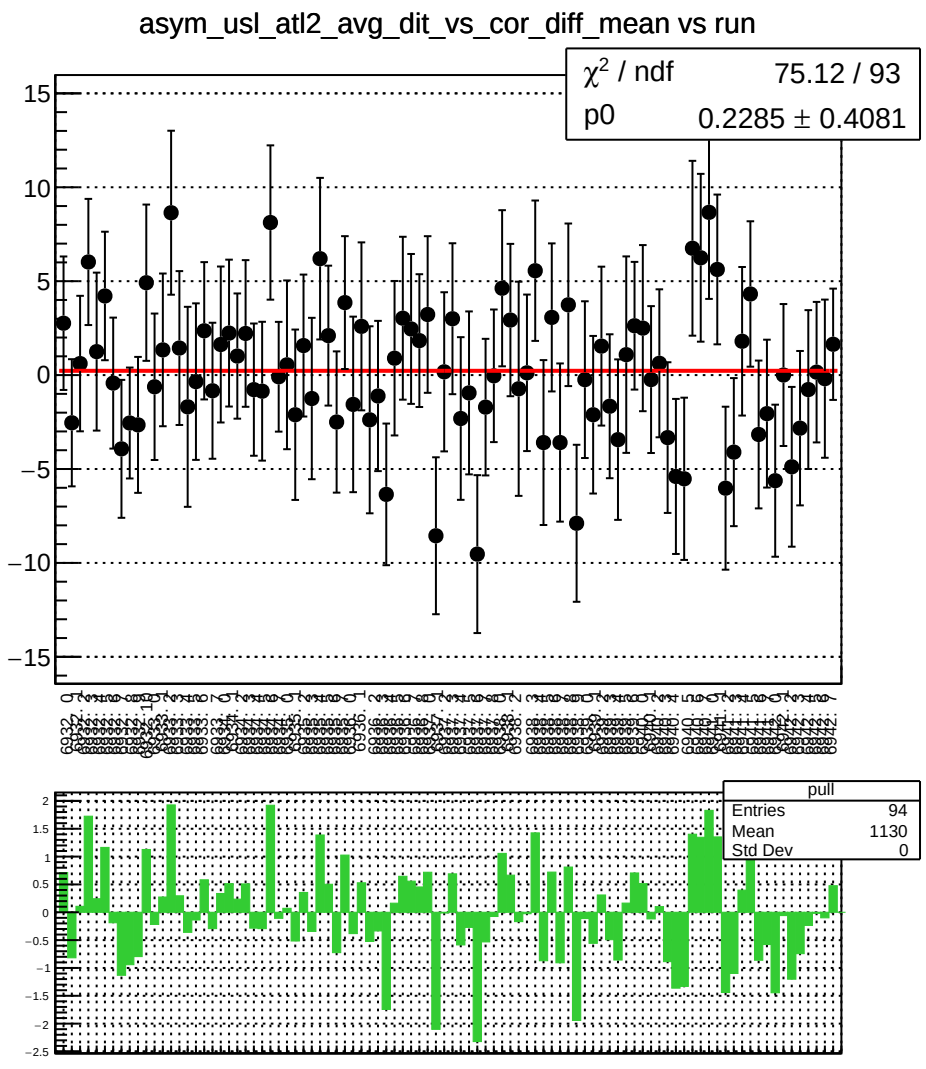

asym_usl_atl2_avg_mean vs run
χ² / ndf 88.05 / 93
p0 −8744 ± 7286
×10³
300
200
100
0
−100
−200
pull
Entries 94
Mean 462.7
Std Dev 0
2
1
0
−1
−2

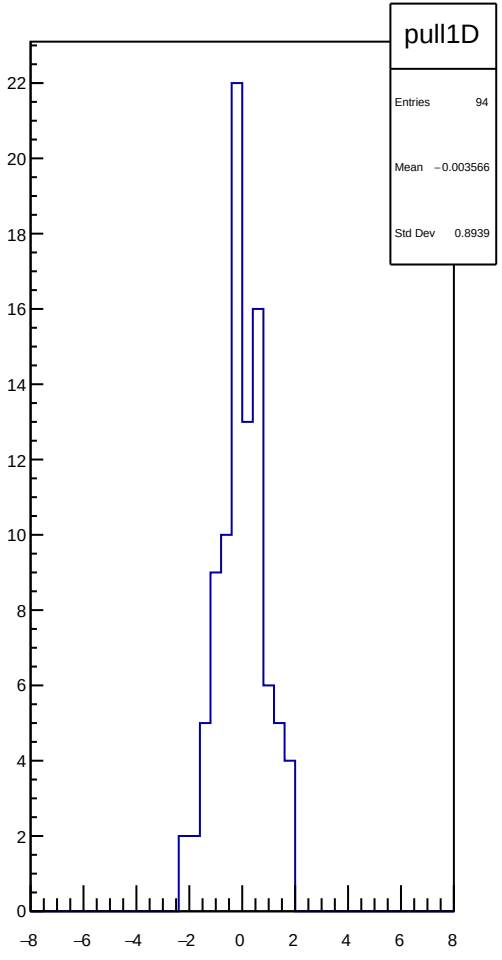

pull1D
Entries 94
Mean 0.005727
Std Dev 0.9678
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

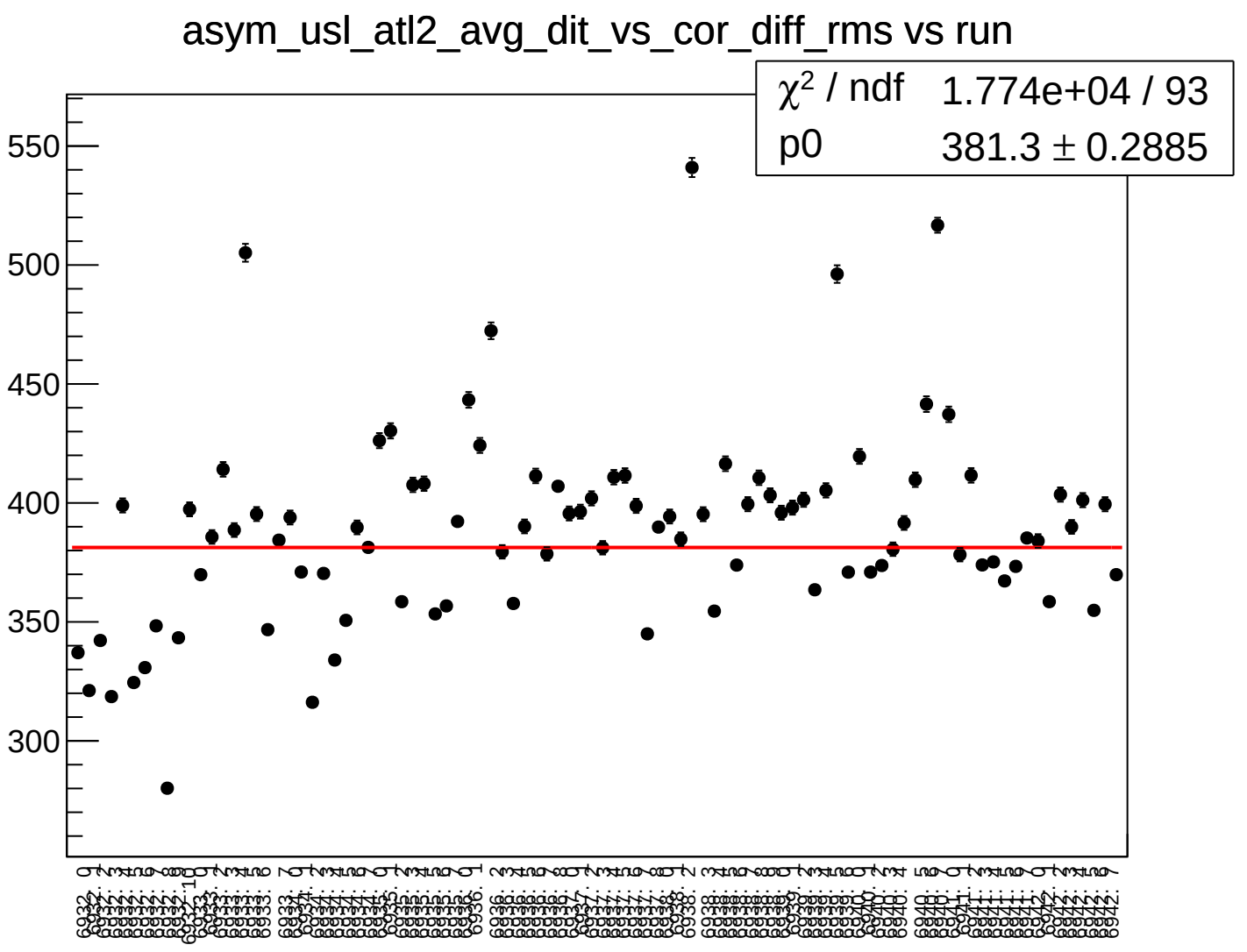

asym_usl_atl2_avg_rms vs run
χ² / ndf 5170 / 93
p0 6832 ± 5.152
8000
7500
7000
6500
6000

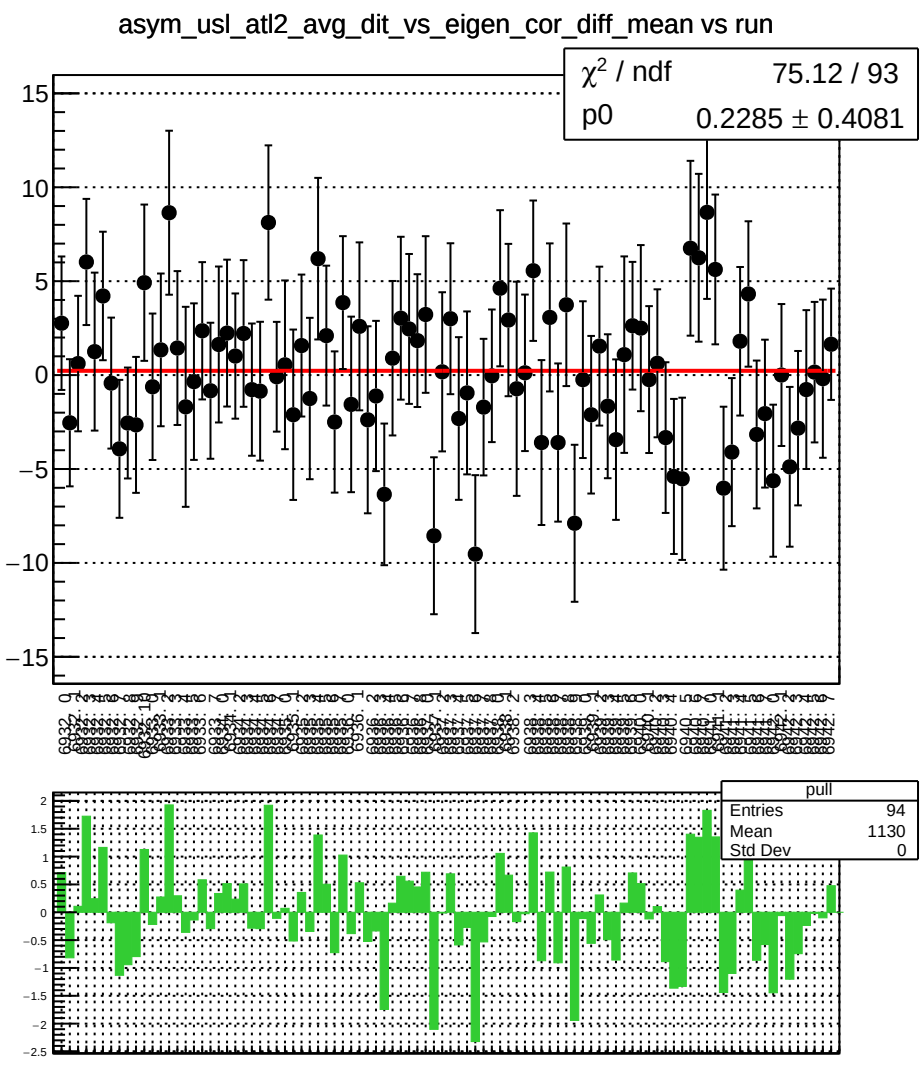

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.29 / 93
p0 1.321e−13 ± 2.239e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 94
Mean −3.394
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1122
Std Dev 0.9346
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

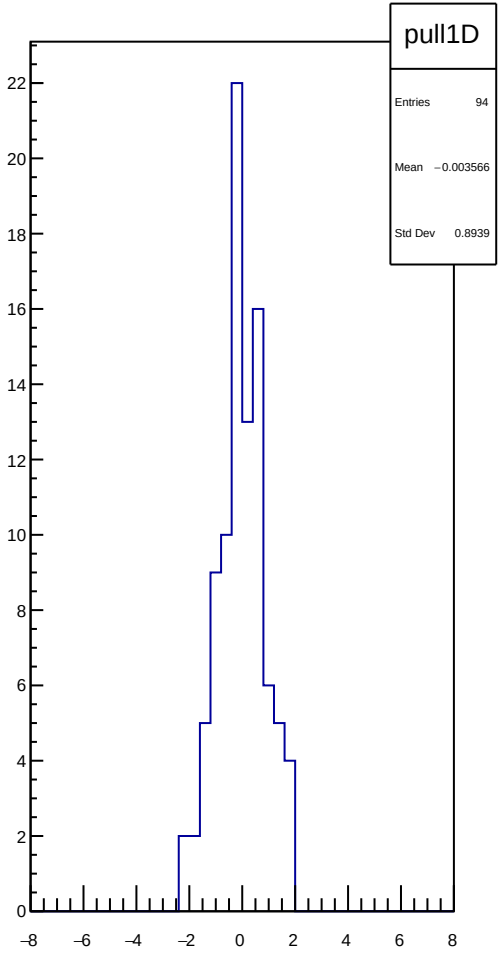

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.818e+05 / 93
p0 1.4e−10 ± 1.583e−13
1.2
1
0.8
0.6
0.4
0.2
0

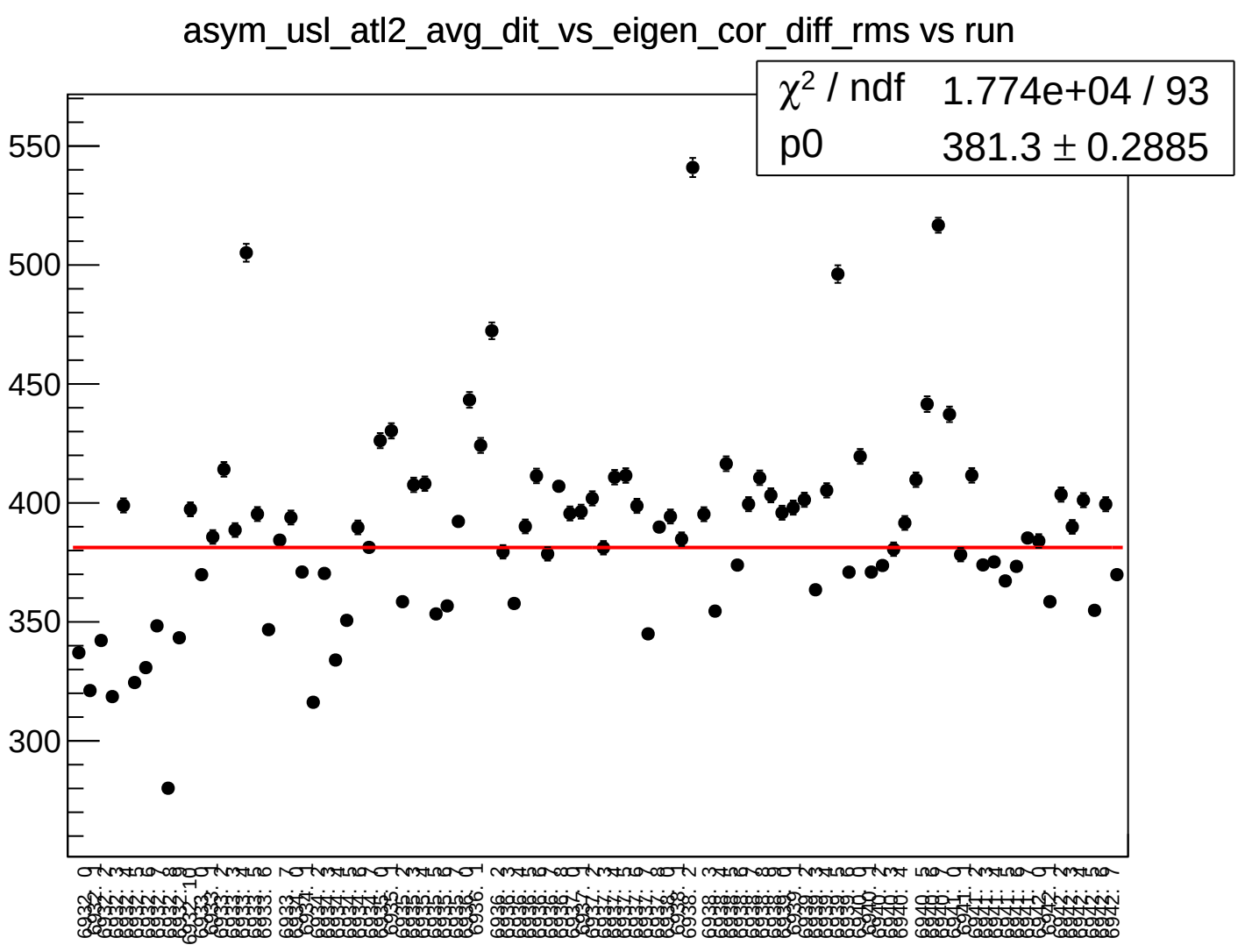

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 0.2285 ± 0.4081
pull
Entries 94
Mean 1130
Std Dev 0

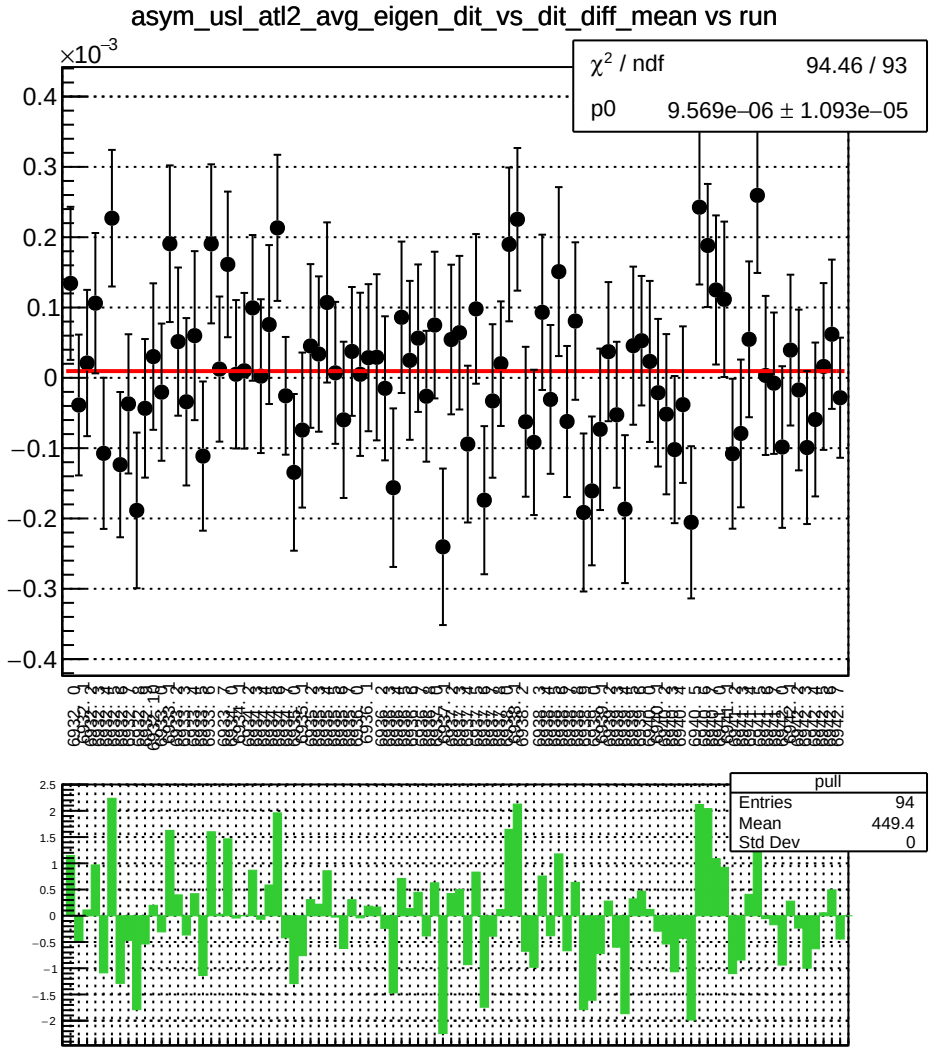

pull1D
Entries 94
Mean −0.003566
Std Dev 0.8939

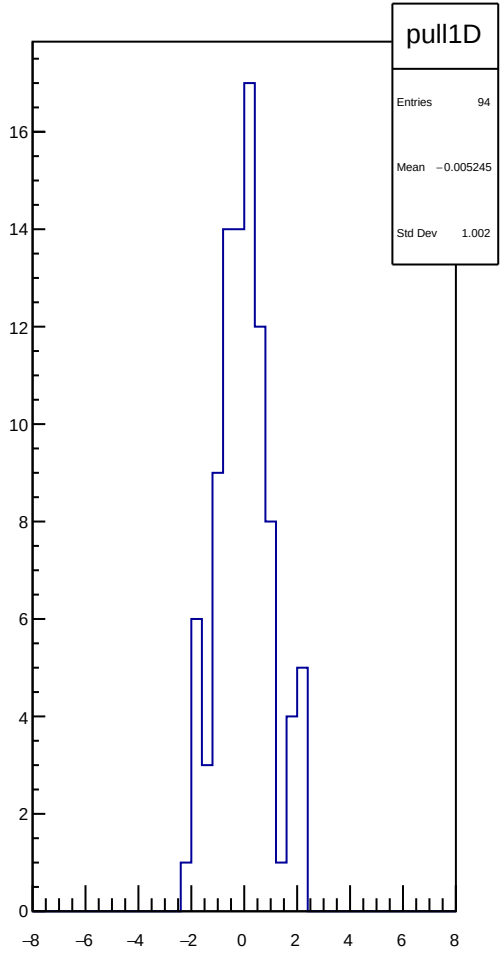

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.774e+04 / 93
p0 381.3 ± 0.2885
550
500
450
400
350
300

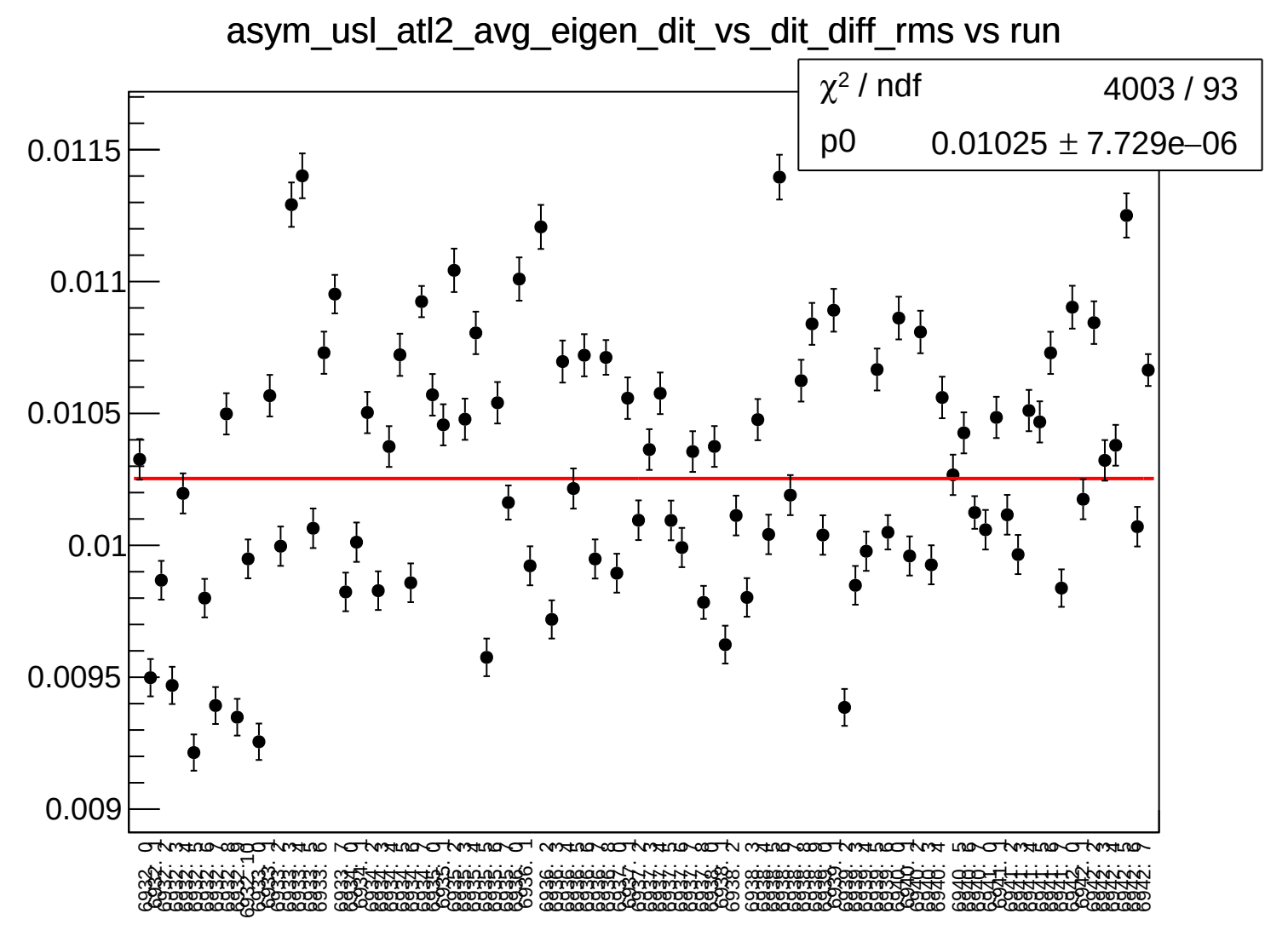

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 0.2285 ± 0.4081
pull
Entries 94
Mean 1130
Std Dev 0

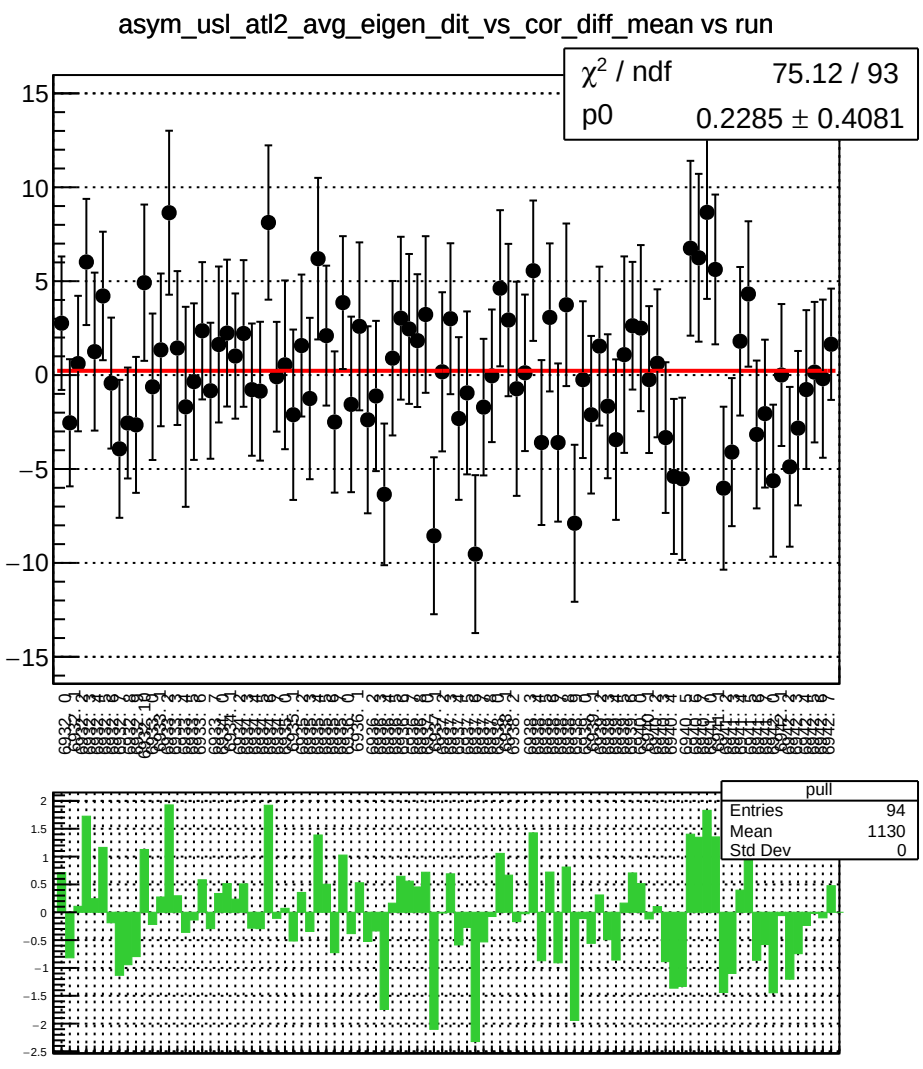

pull1D
Entries 94
Mean −0.003566
Std Dev 0.8939

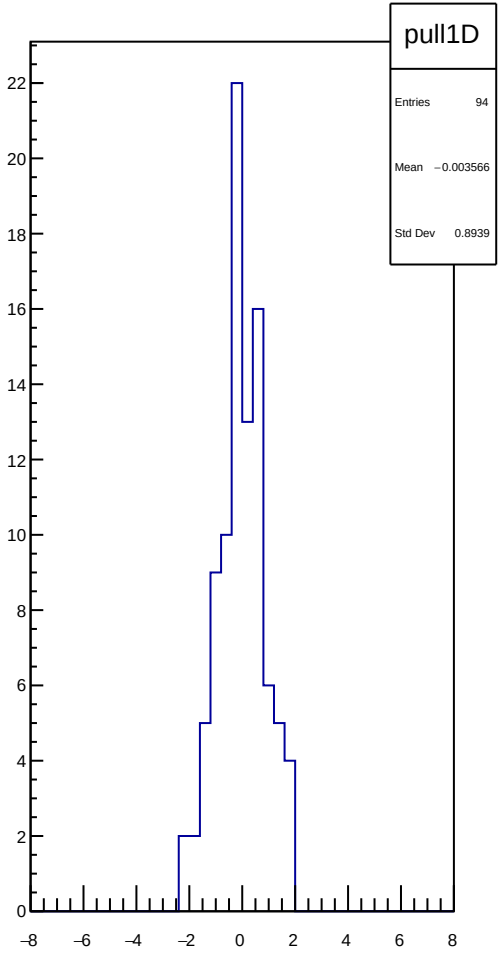

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.774e+04 / 93
p0 381.3 ± 0.2885
550
500
450
400
350
300

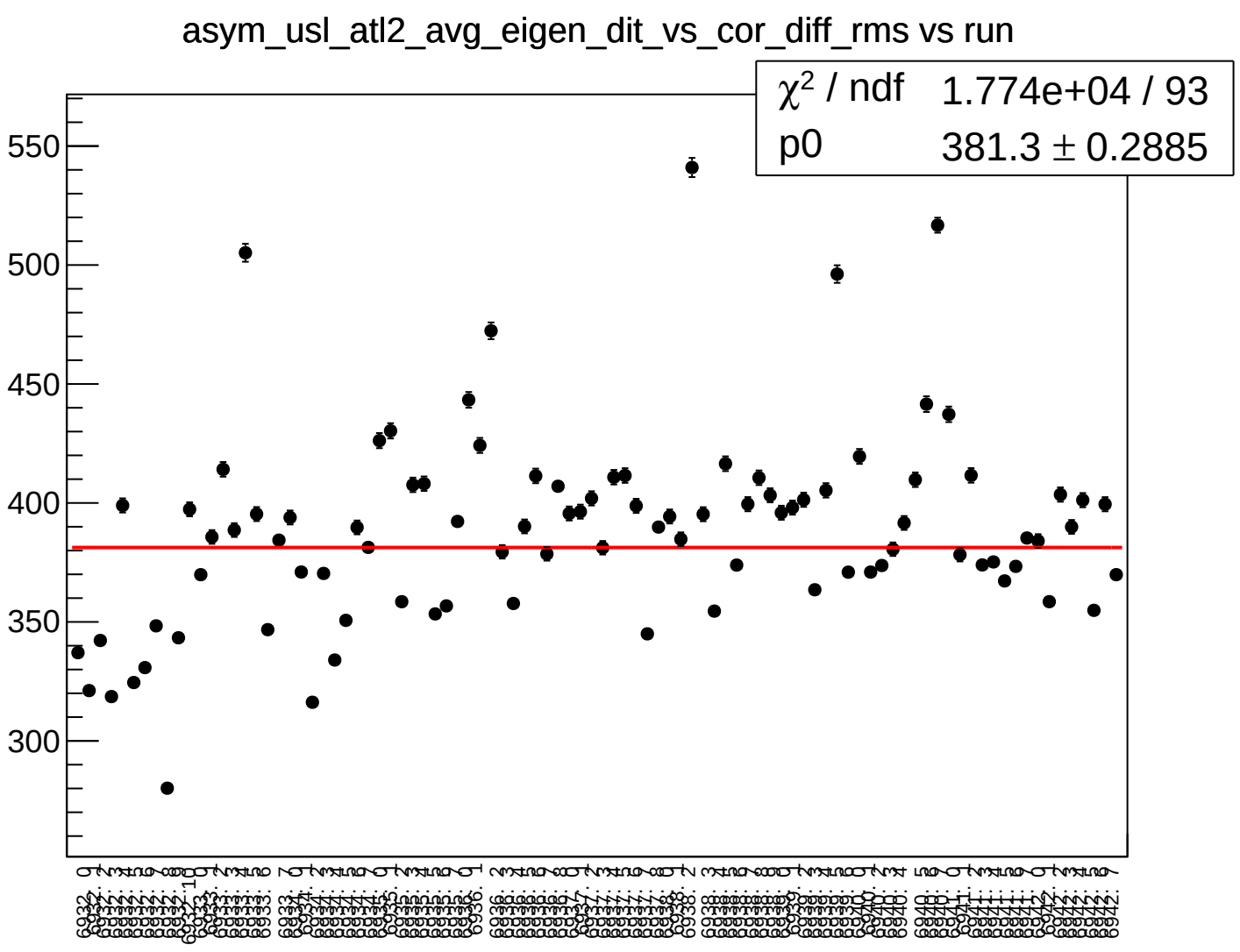

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.46 / 93
p0 9.569e−06 ± 1.093e−05
pull
Entries 94
Mean 449.4
Std Dev 0

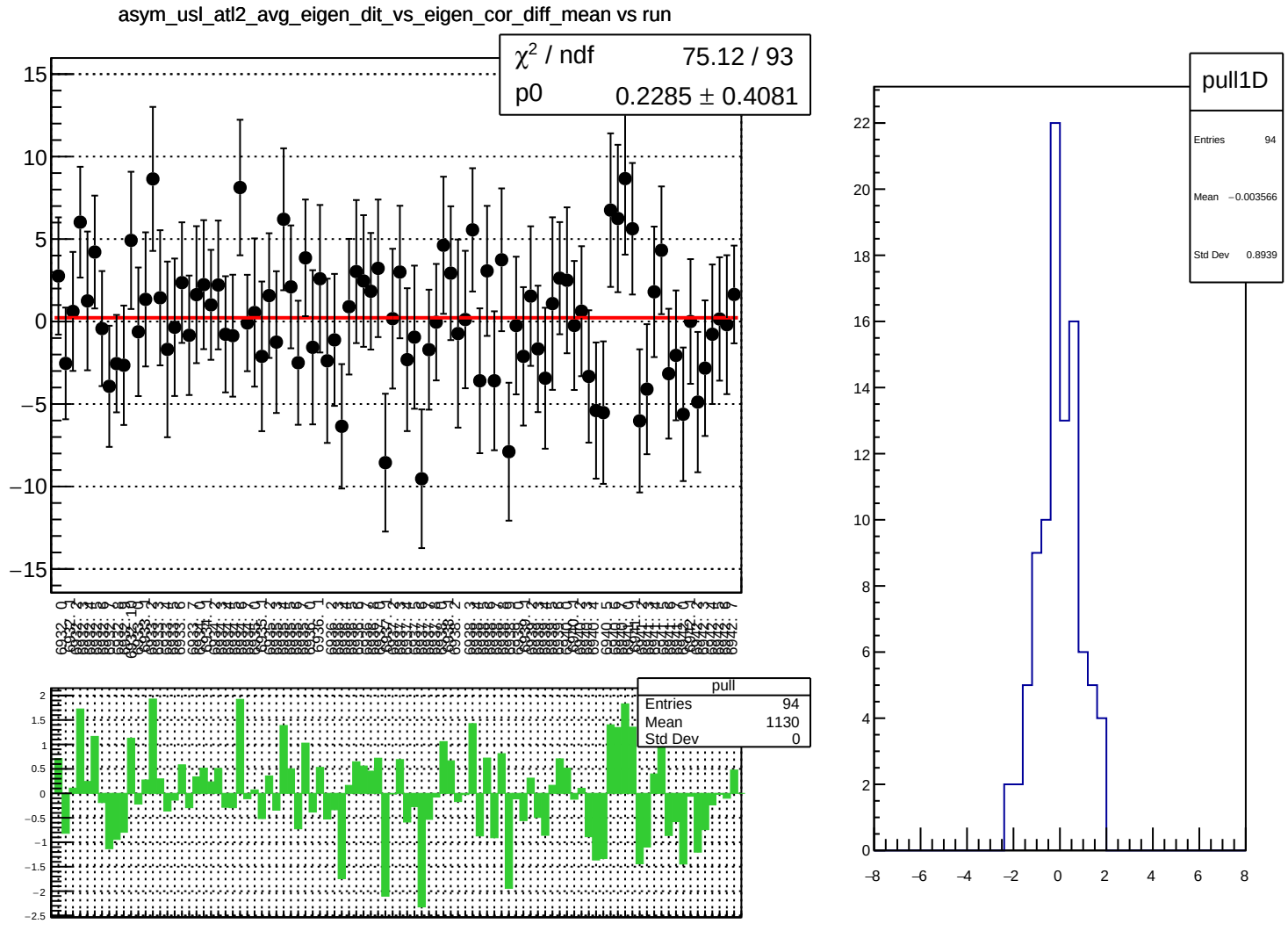

pull1D
Entries 94
Mean −0.005245
Std Dev 1.002

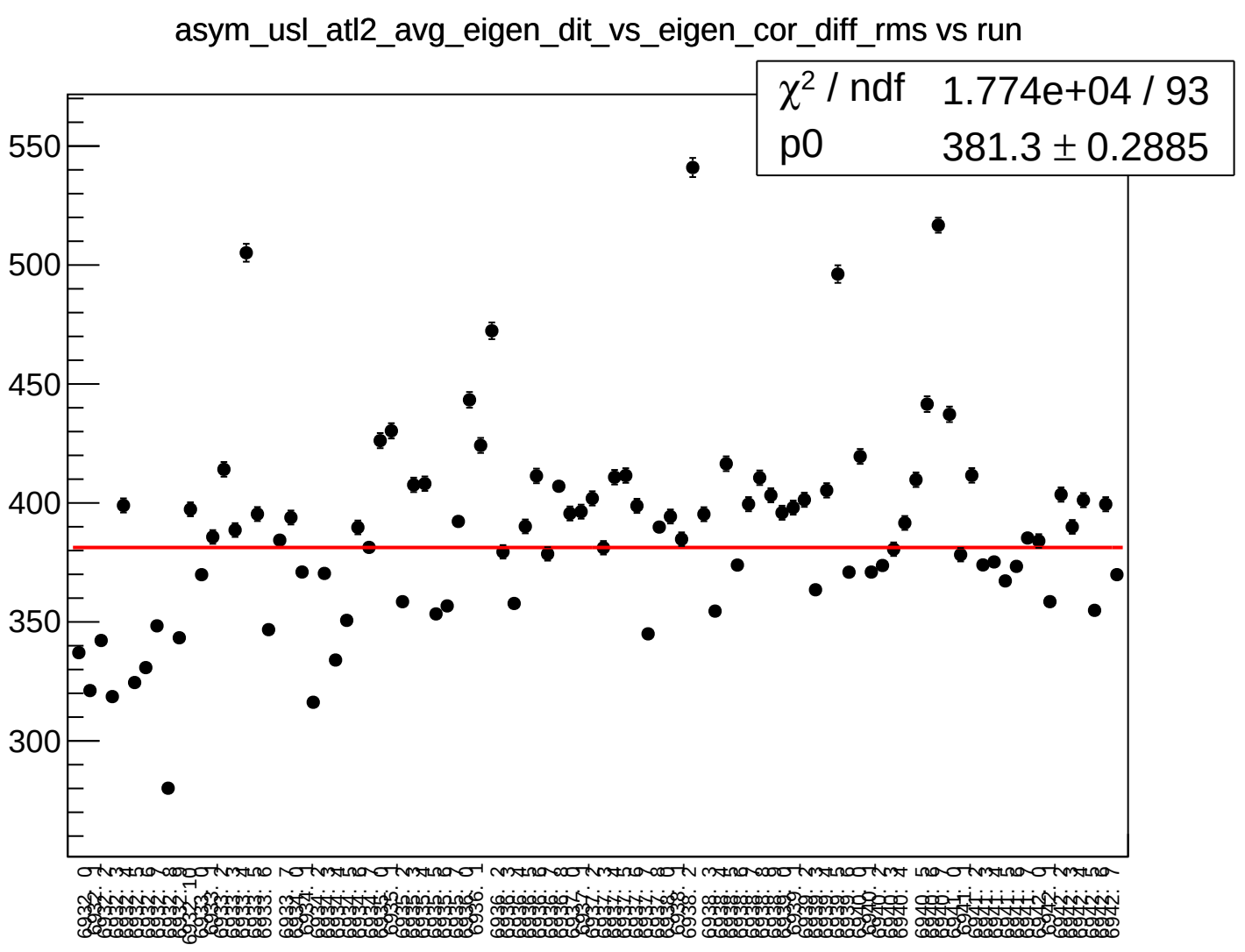

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4003 / 93
p0 0.01025 ± 7.729e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

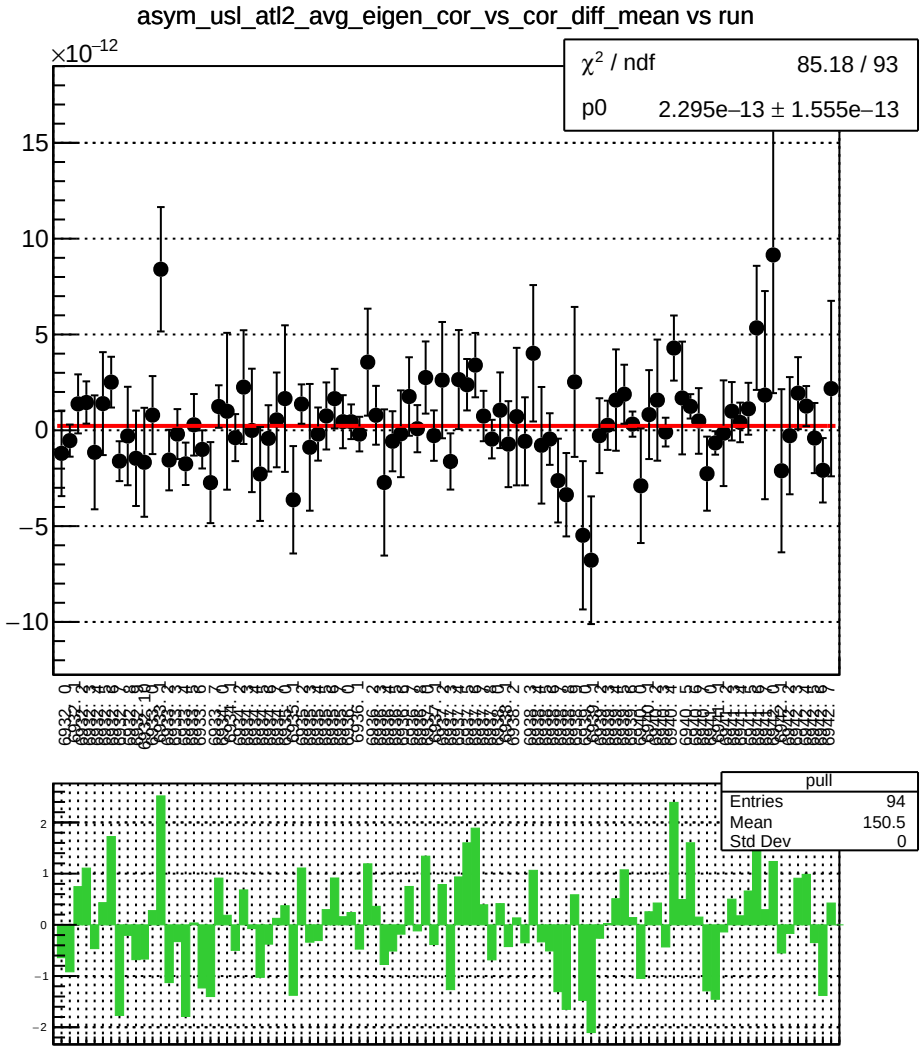

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 0.2285 ± 0.4081
pull
Entries 94
Mean 1130
Std Dev 0

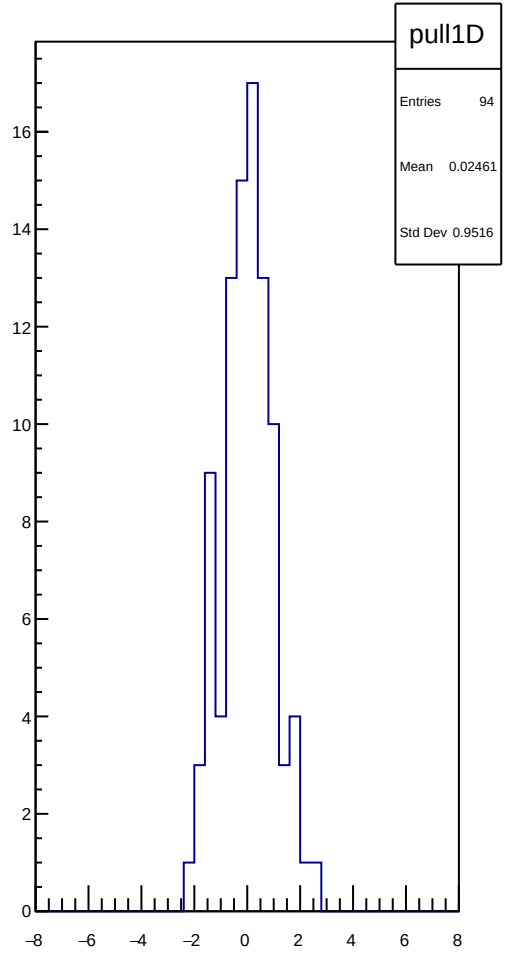

pull1D
Entries 94
Mean −0.003566
Std Dev 0.8939

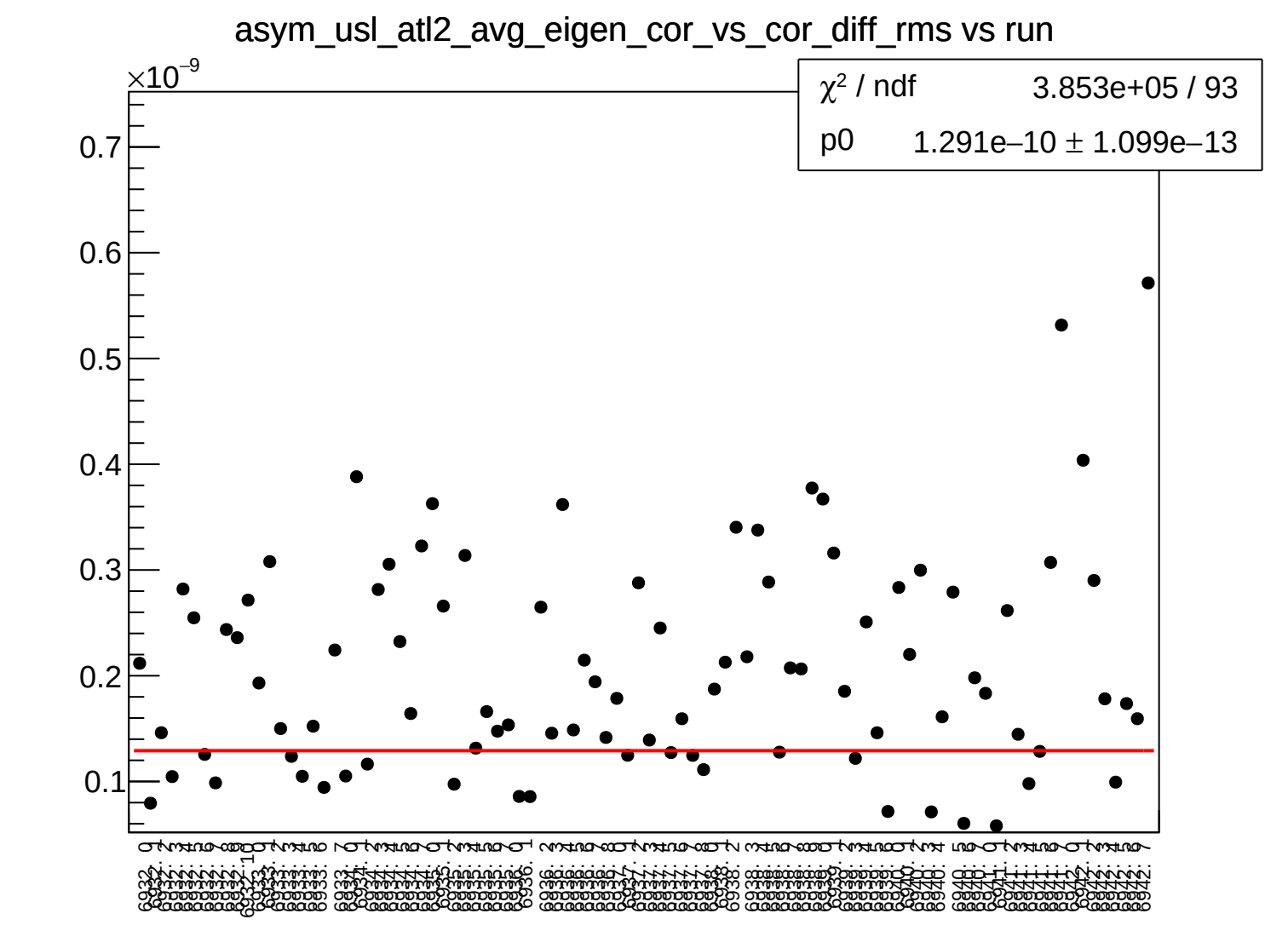

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.774e+04 / 93
p0 381.3 ± 0.2885
550
500
450
400
350
300

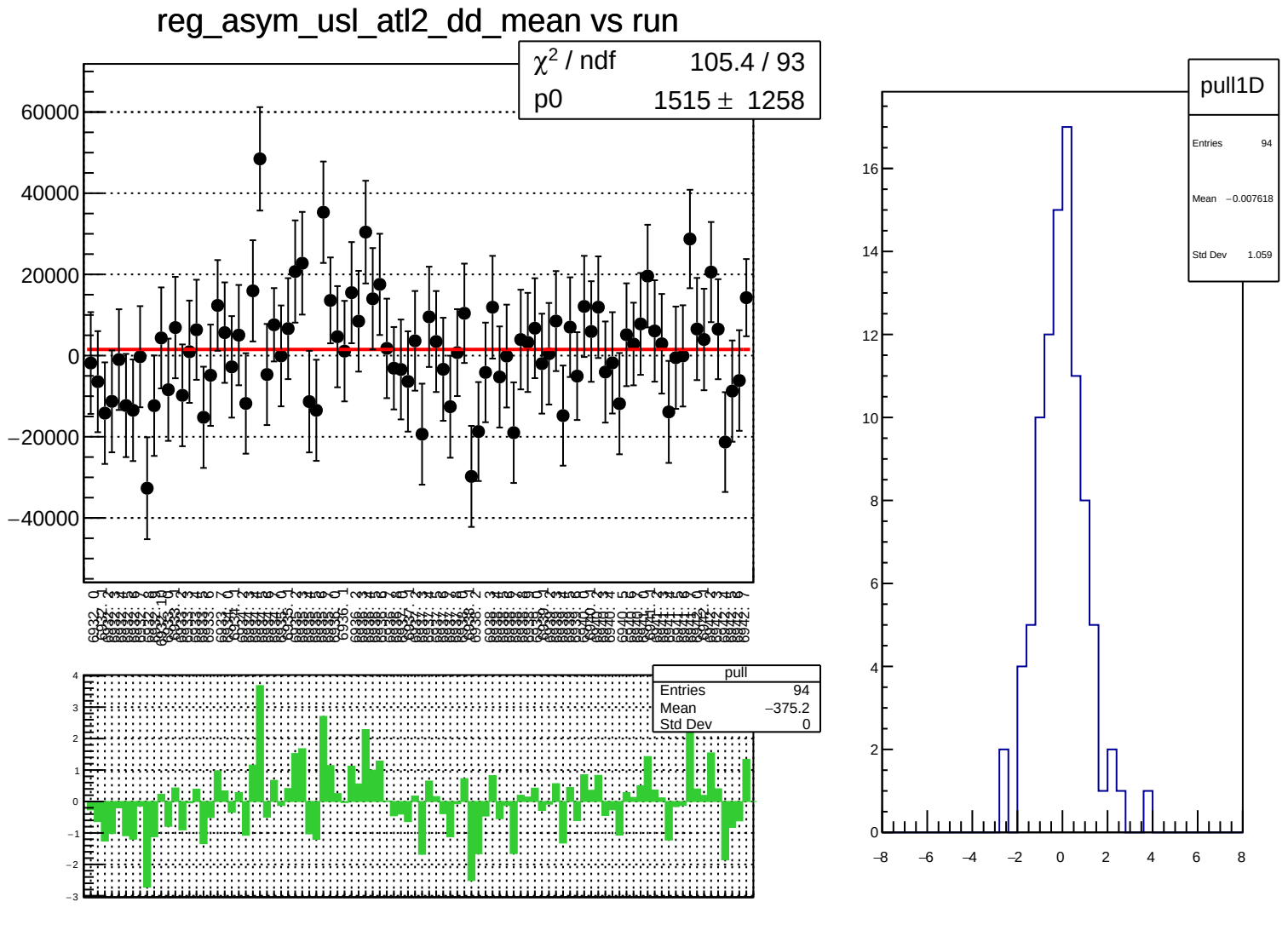

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 0.2285 ± 0.4081
pull
Entries 94
Mean 1130
Std Dev 0
pull1D
Entries 94
Mean −0.003566
Std Dev 0.8939

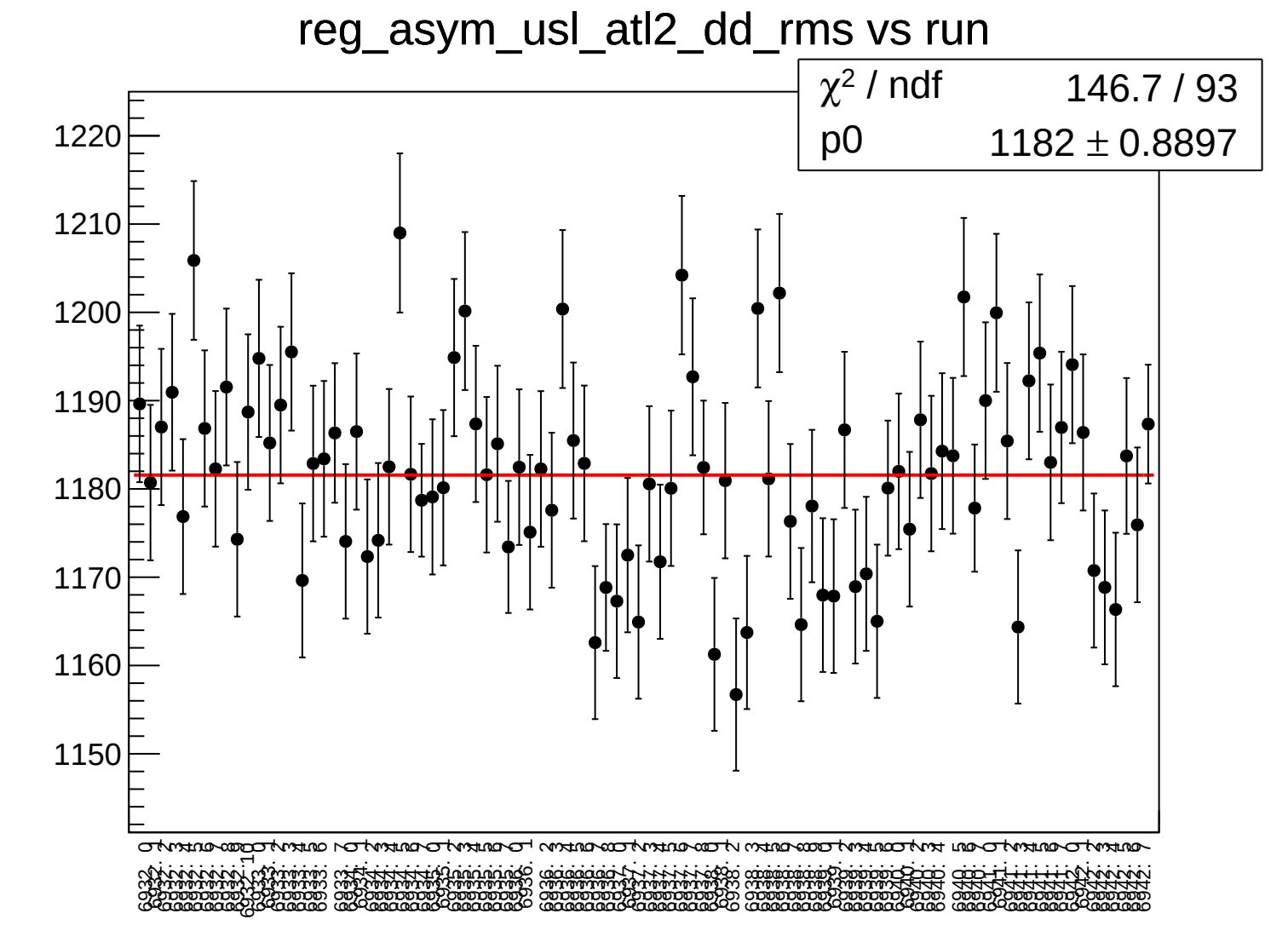

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.774e+04 / 93
p0 381.3 ± 0.2885
550
500
450
400
350
300

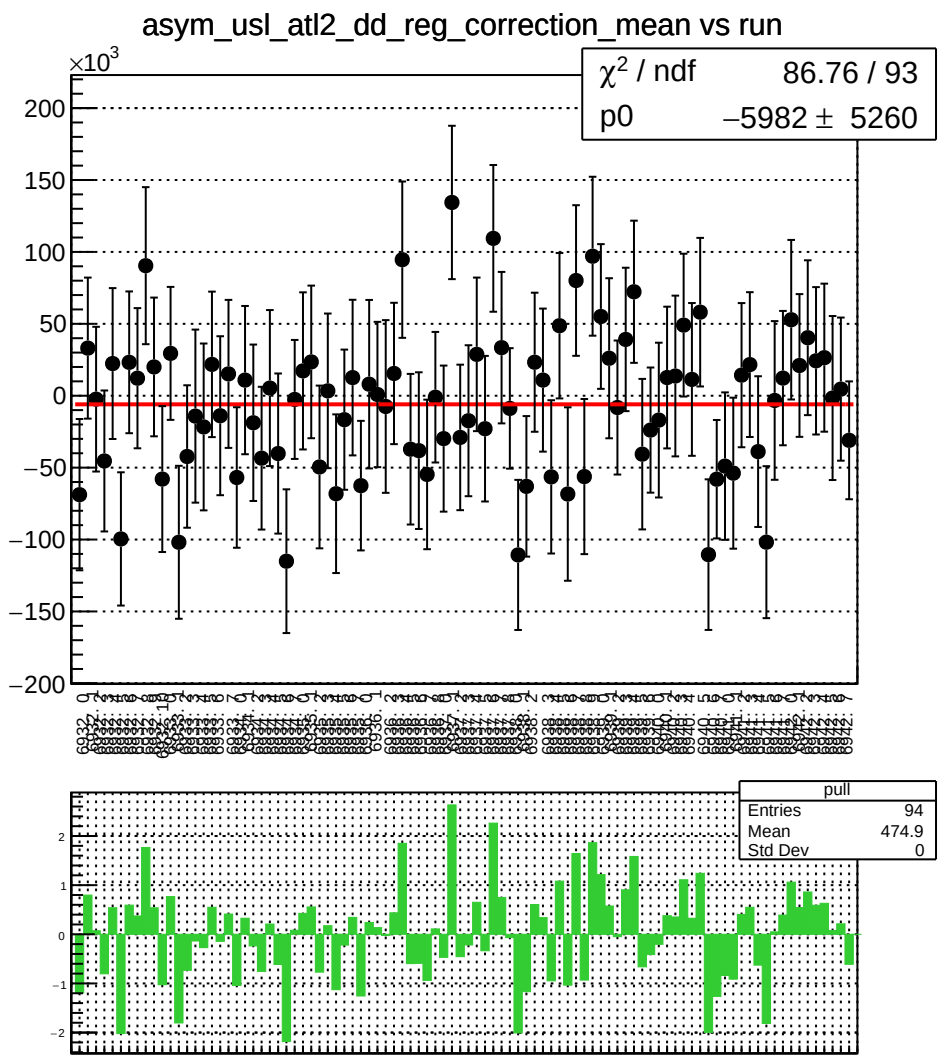

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.18 / 93
p0 2.295e−13 ± 1.555e−13
15
10
5
0
−5
−10
pull
Entries 94
Mean 150.5
Std Dev 0
2
1
0
−1
−2

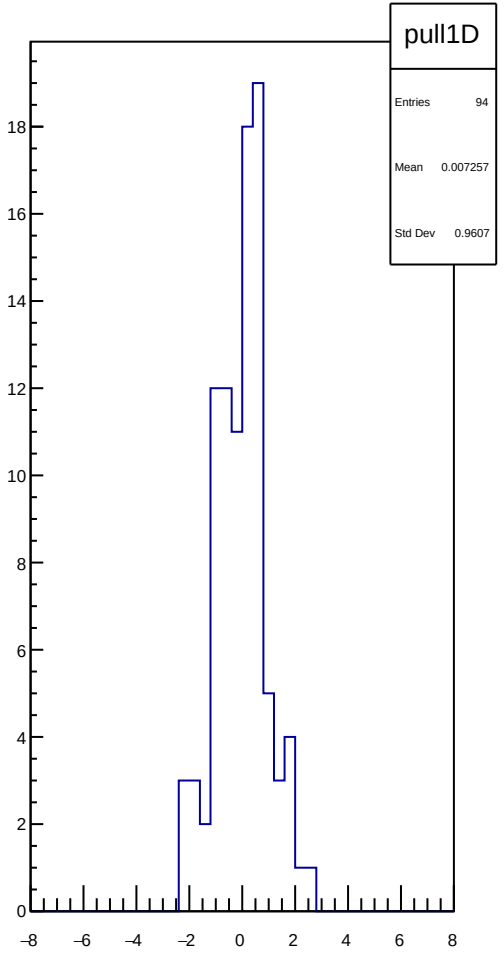

pull1D
Entries 94
Mean 0.02461
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

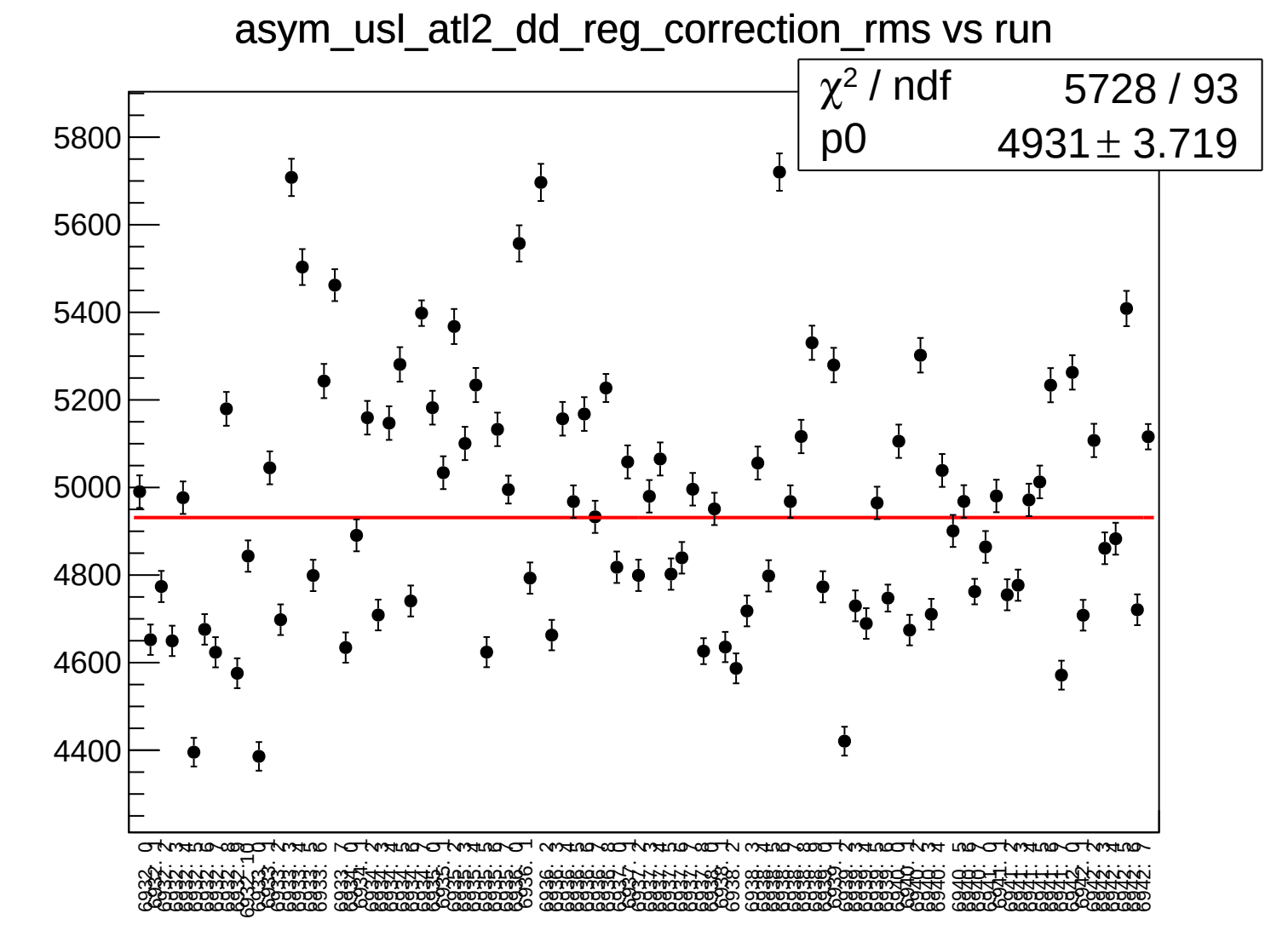

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.853e+05 / 93
p0 1.291e−10 ± 1.099e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

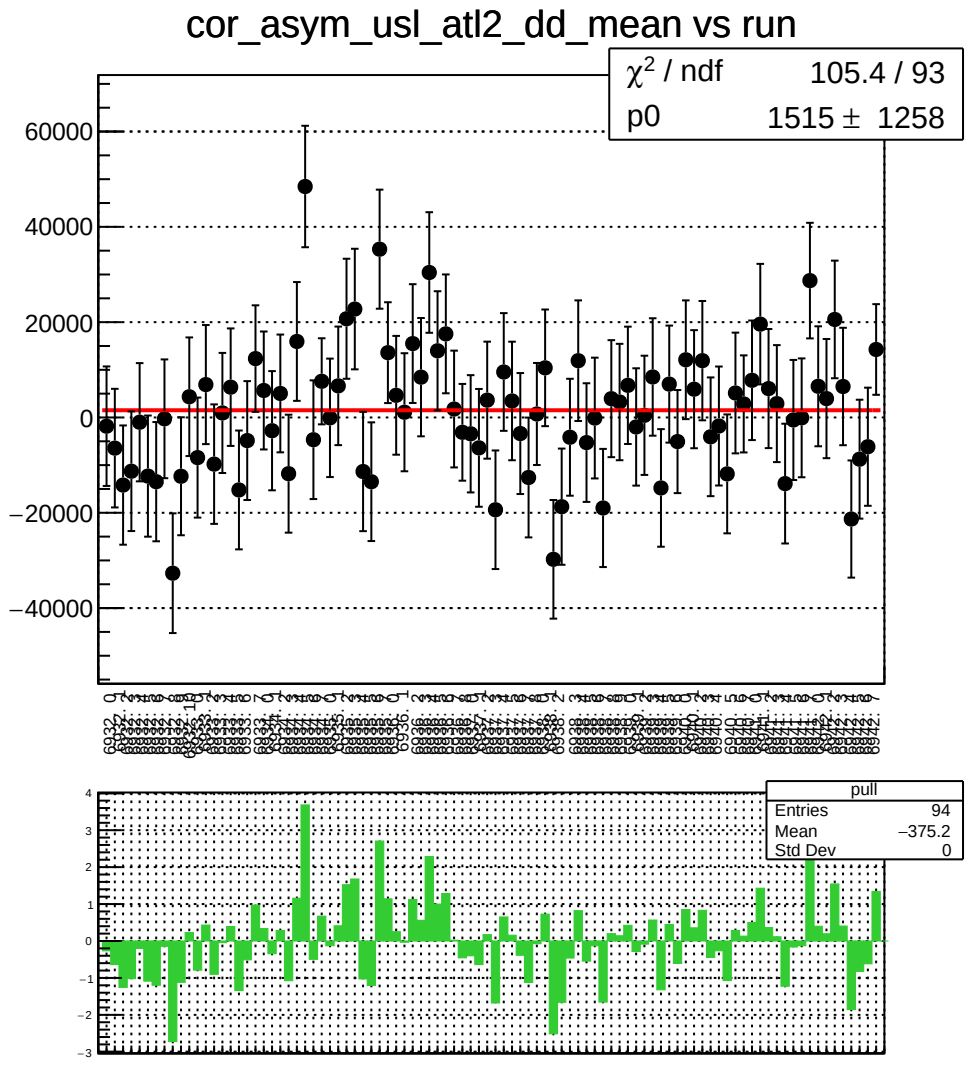

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.4 / 93
p0 1515 ± 1258
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −375.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.007618
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

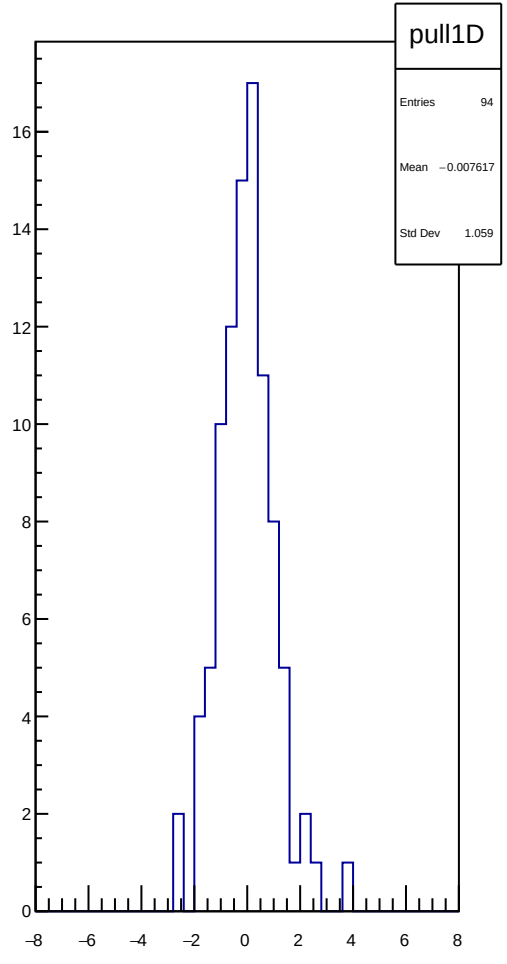

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 146.7 / 93
p0 1182 ± 0.8897
1220
1210
1200
1190
1180
1170
1160
1150

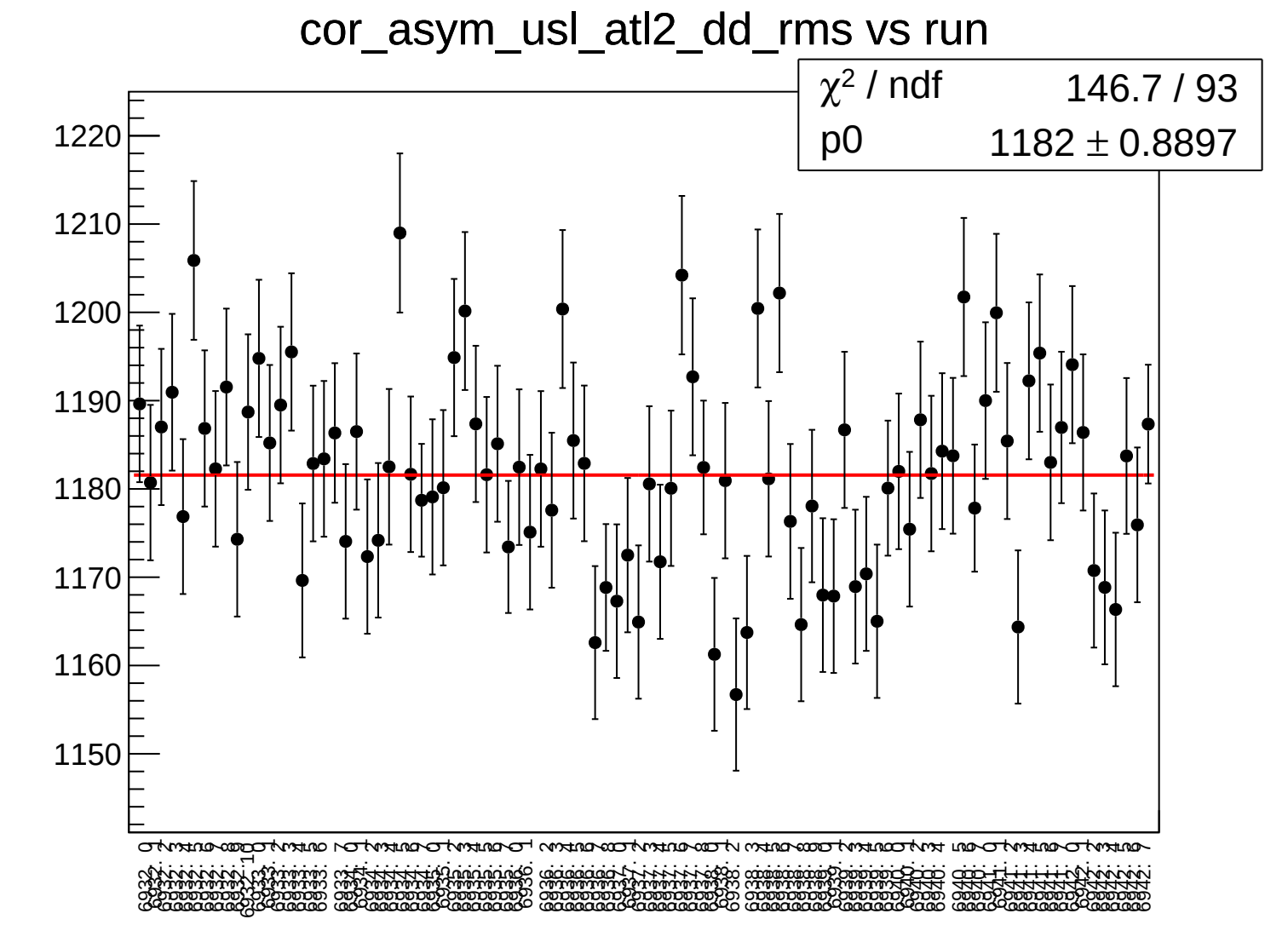

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.76 / 93
p0 −5982 ± 5260
pull
Entries 94
Mean 474.9
Std Dev 0

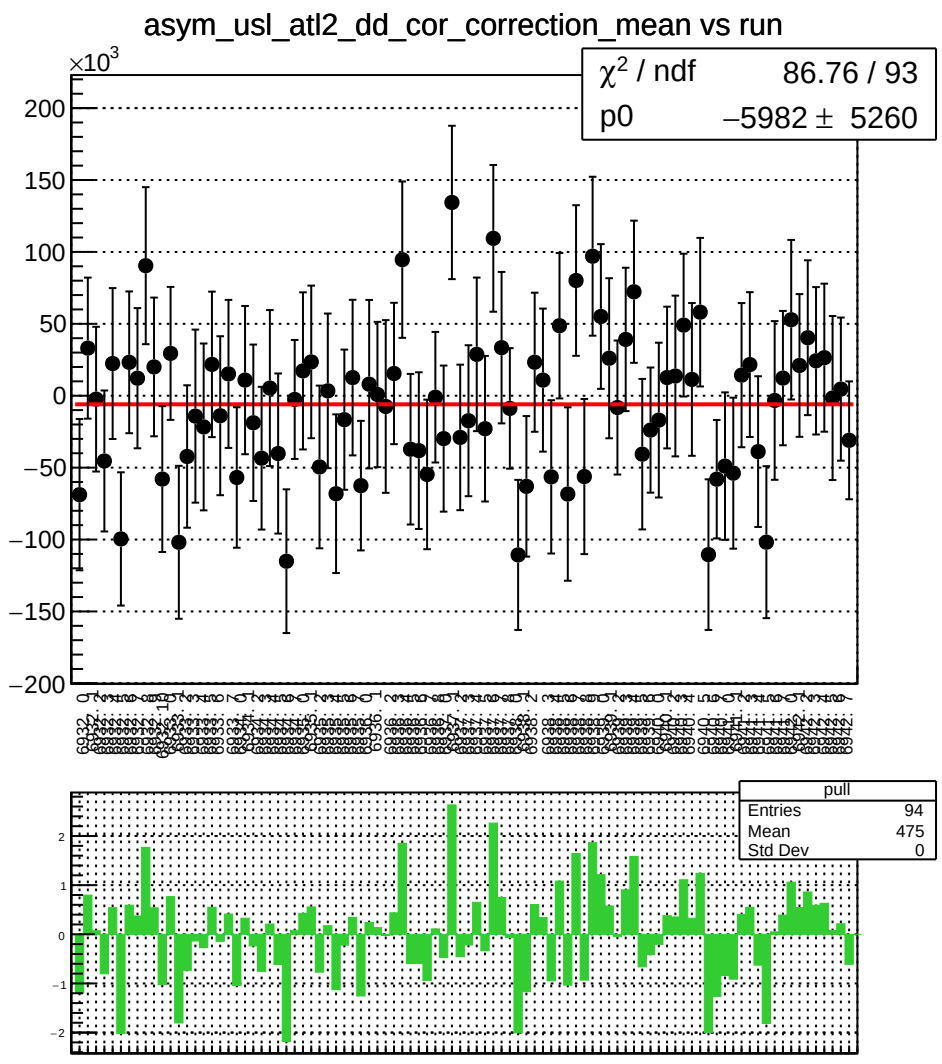

pull1D
Entries 94
Mean 0.007257
Std Dev 0.9607

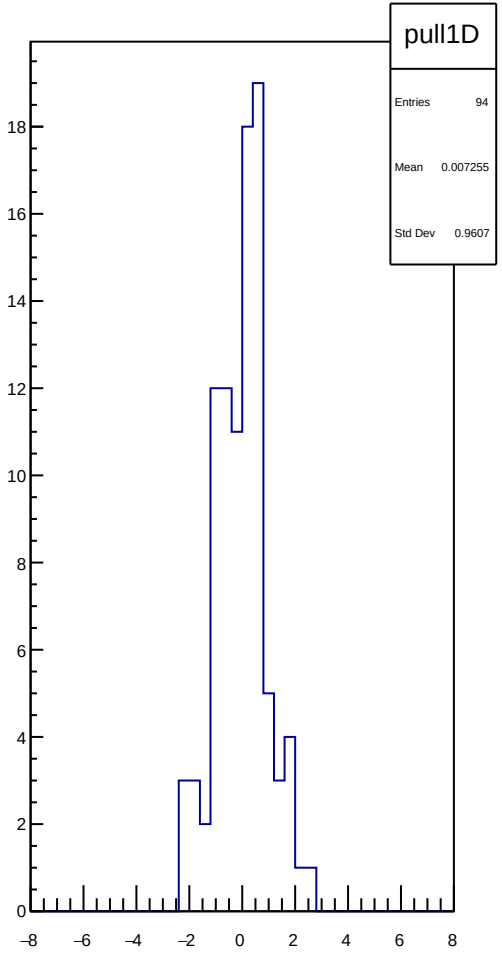

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5728 / 93
p0 4931 ± 3.719
5800
5600
5400
5200
5000
4800
4600
4400

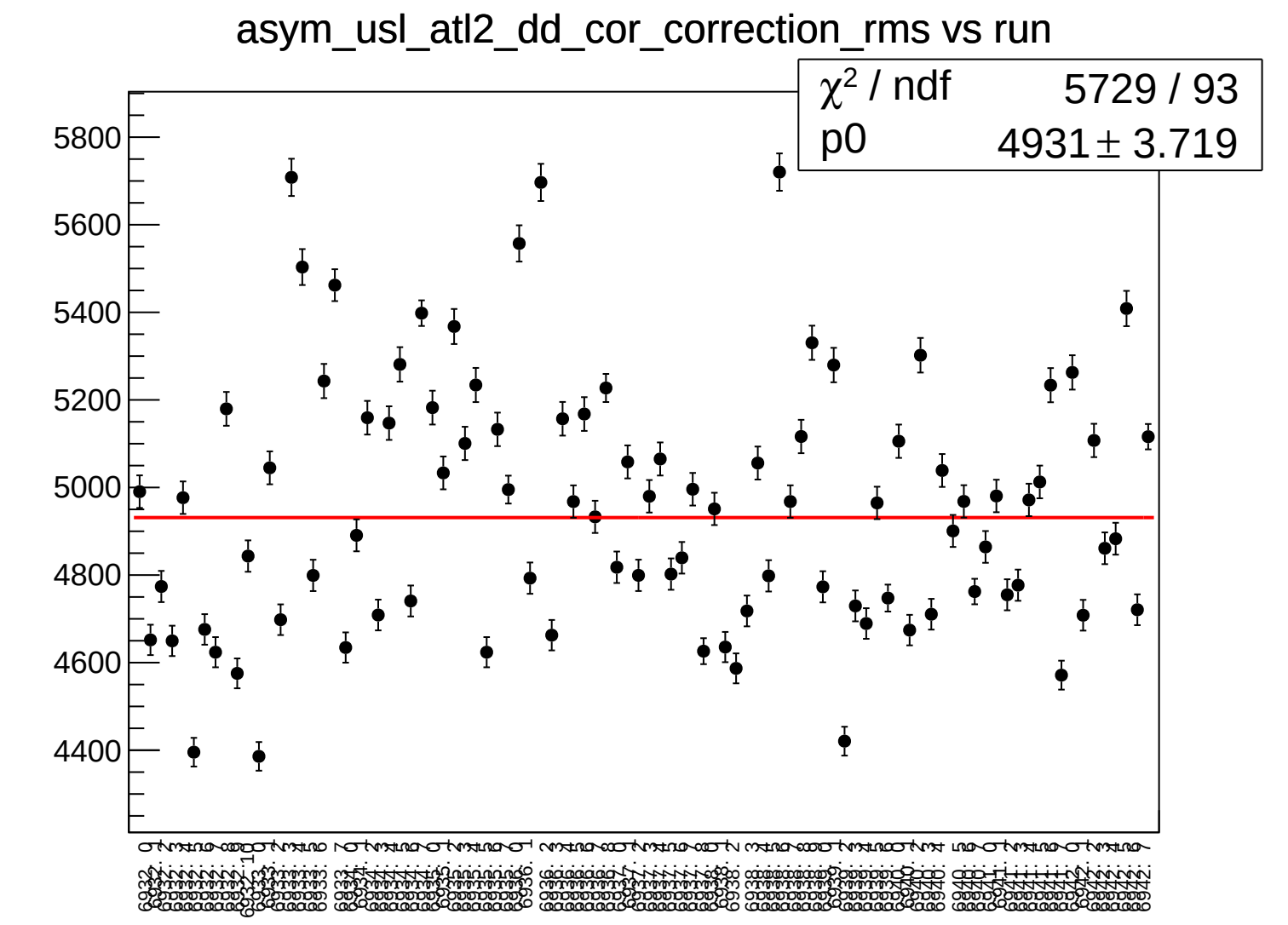

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.4 / 93
p0 1515 ± 1258
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −375.2
Std Dev 0
4
3
2
1
0
−1
−2
−3

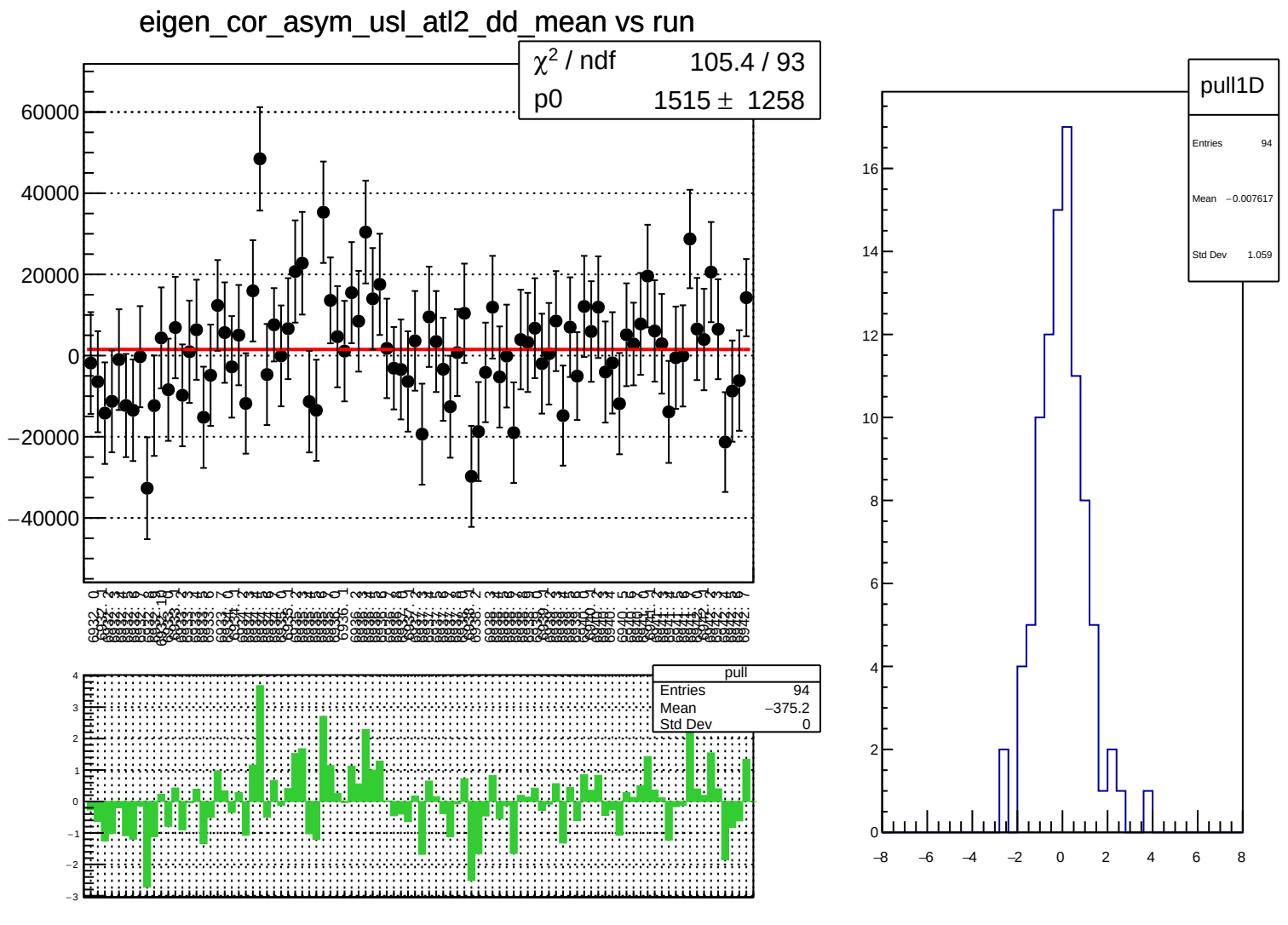

pull1D
Entries 94
Mean −0.007617
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

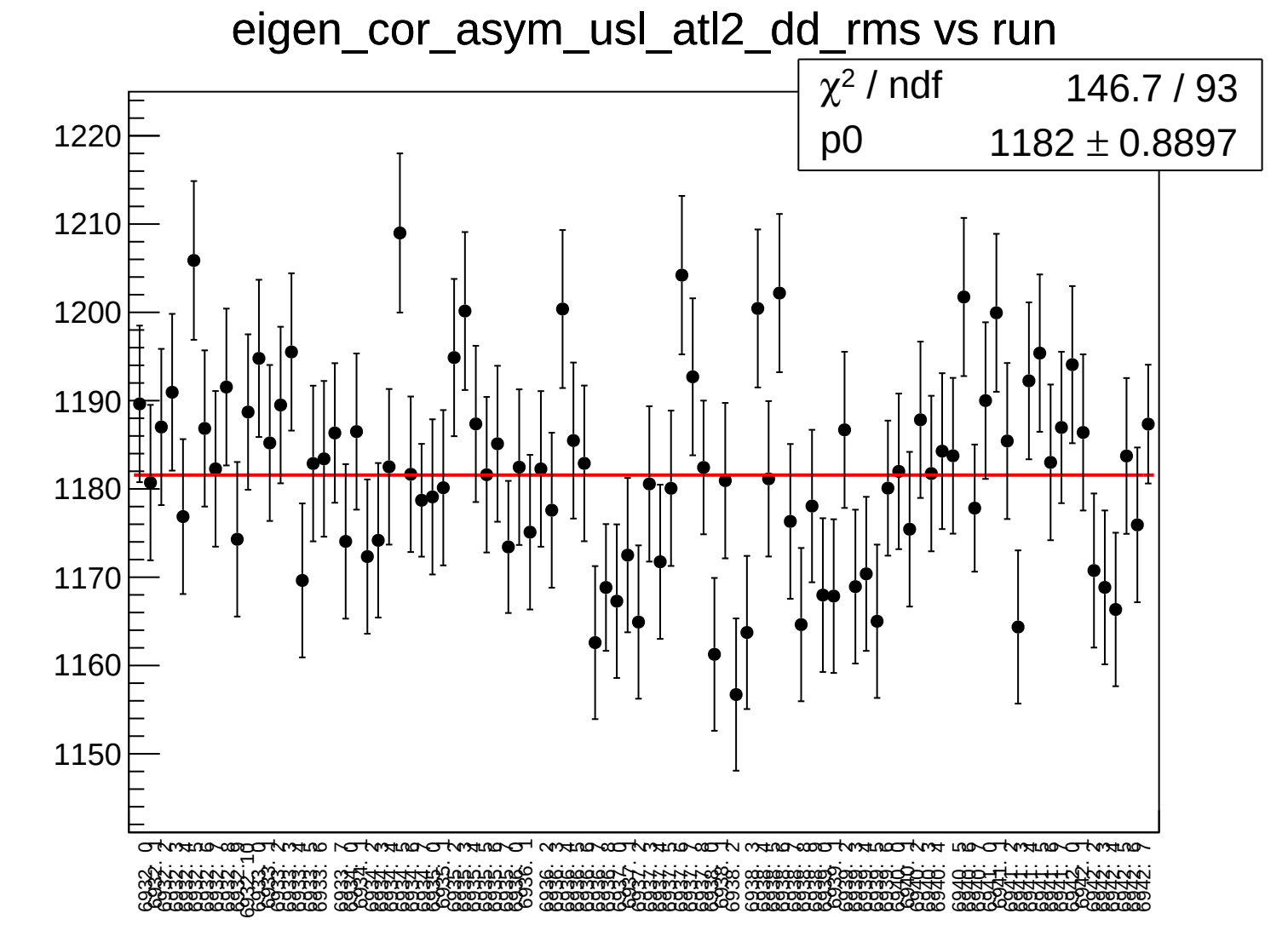

cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 146.7 / 93
p0 1182 ± 0.8897
1220
1210
1200
1190
1180
1170
1160
1150

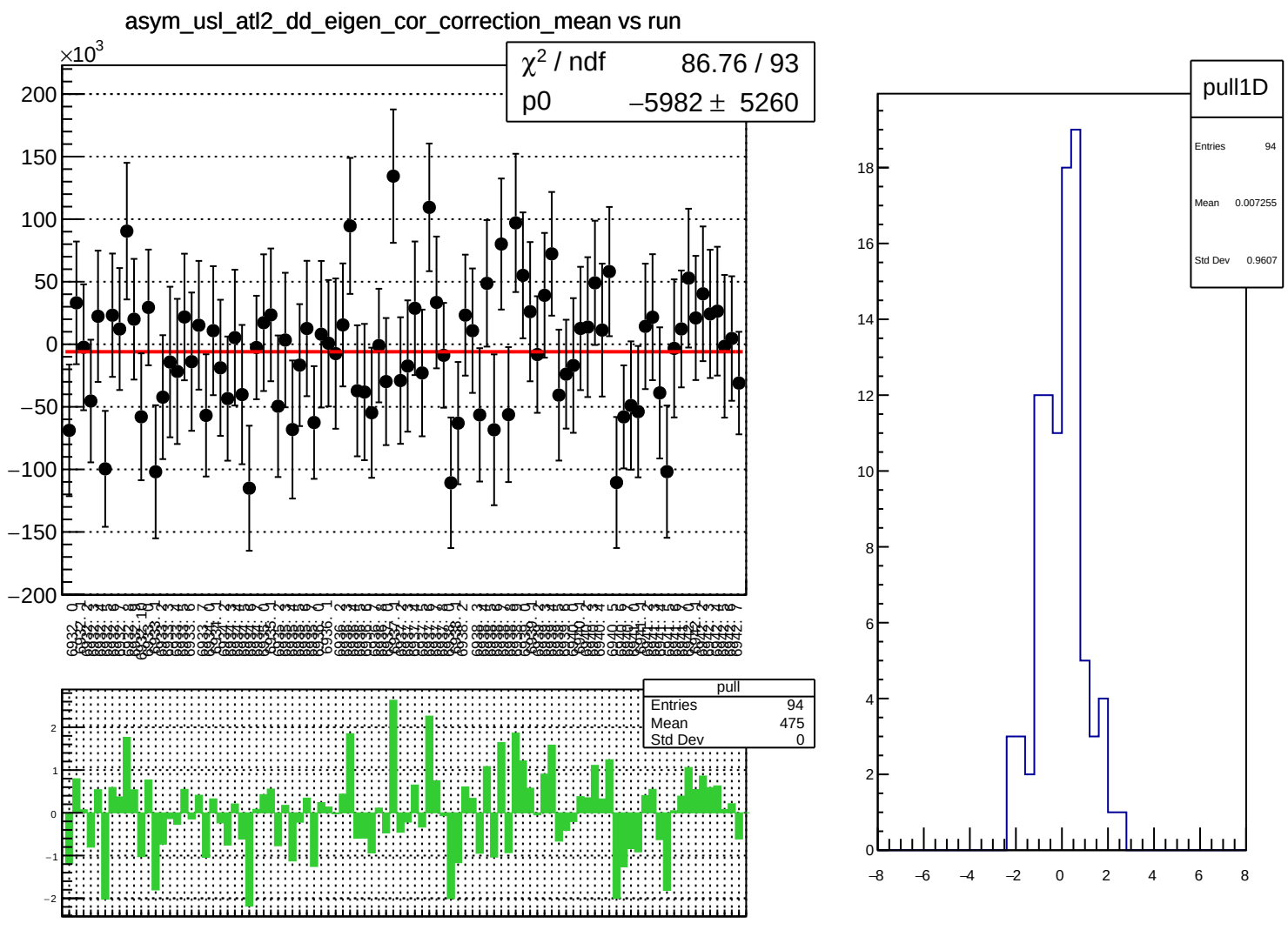

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.76 / 93
p0 −5982 ± 5260
pull
Entries 94
Mean 475
Std Dev 0

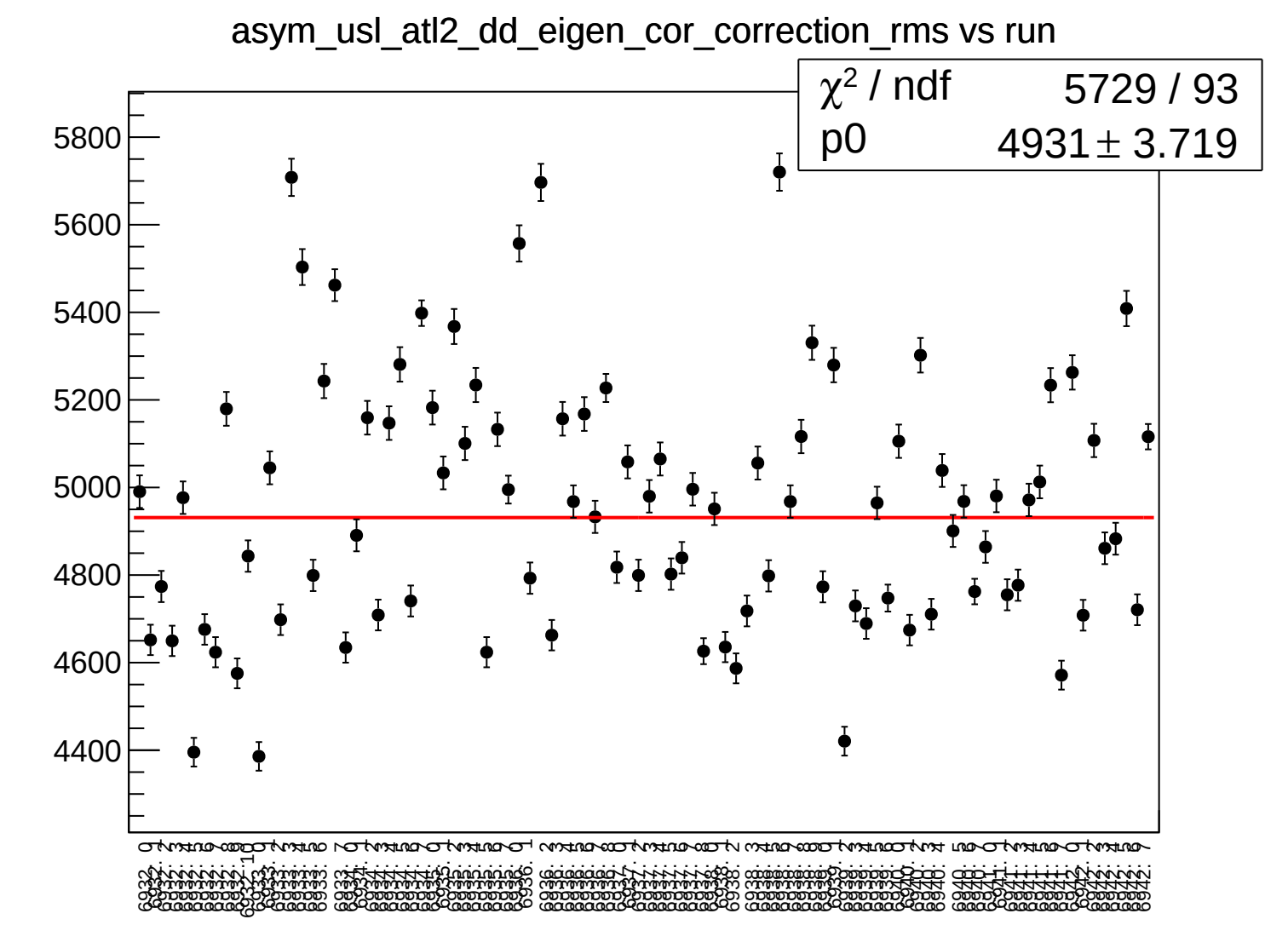

pull1D
Entries 94
Mean 0.007255
Std Dev 0.9607

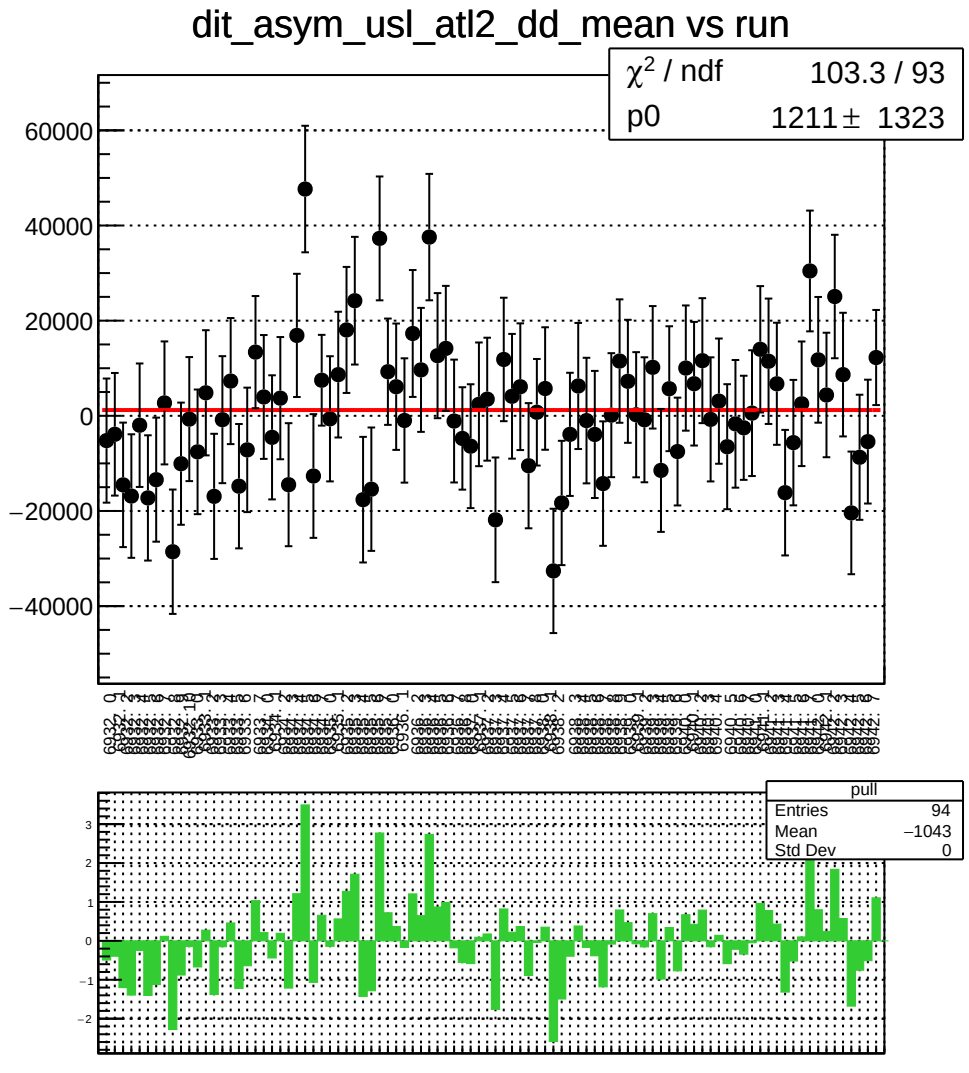

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5729 / 93
p0 4931 ± 3.719
5800
5600
5400
5200
5000
4800
4600
4400

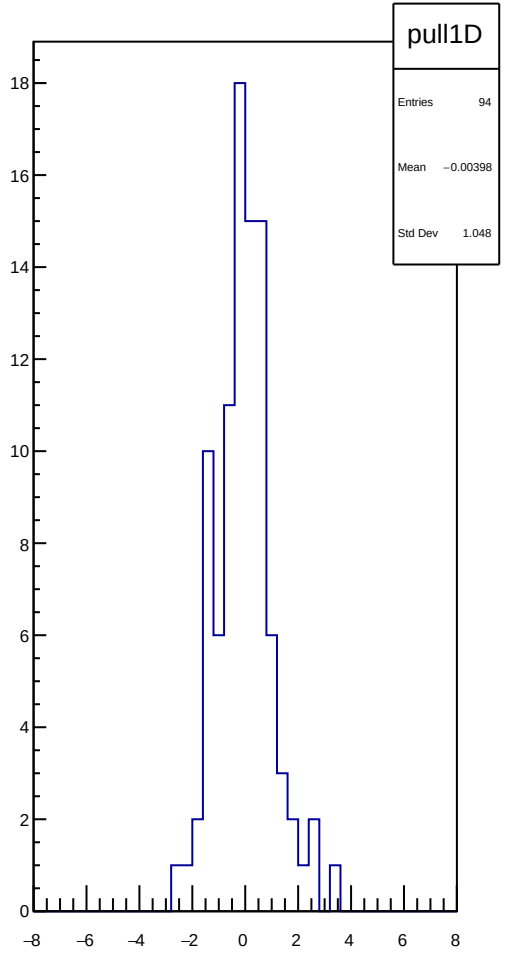

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 105.4 / 93
p0 1515 ± 1258
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −375.2
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.007617
Std Dev 1.059
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

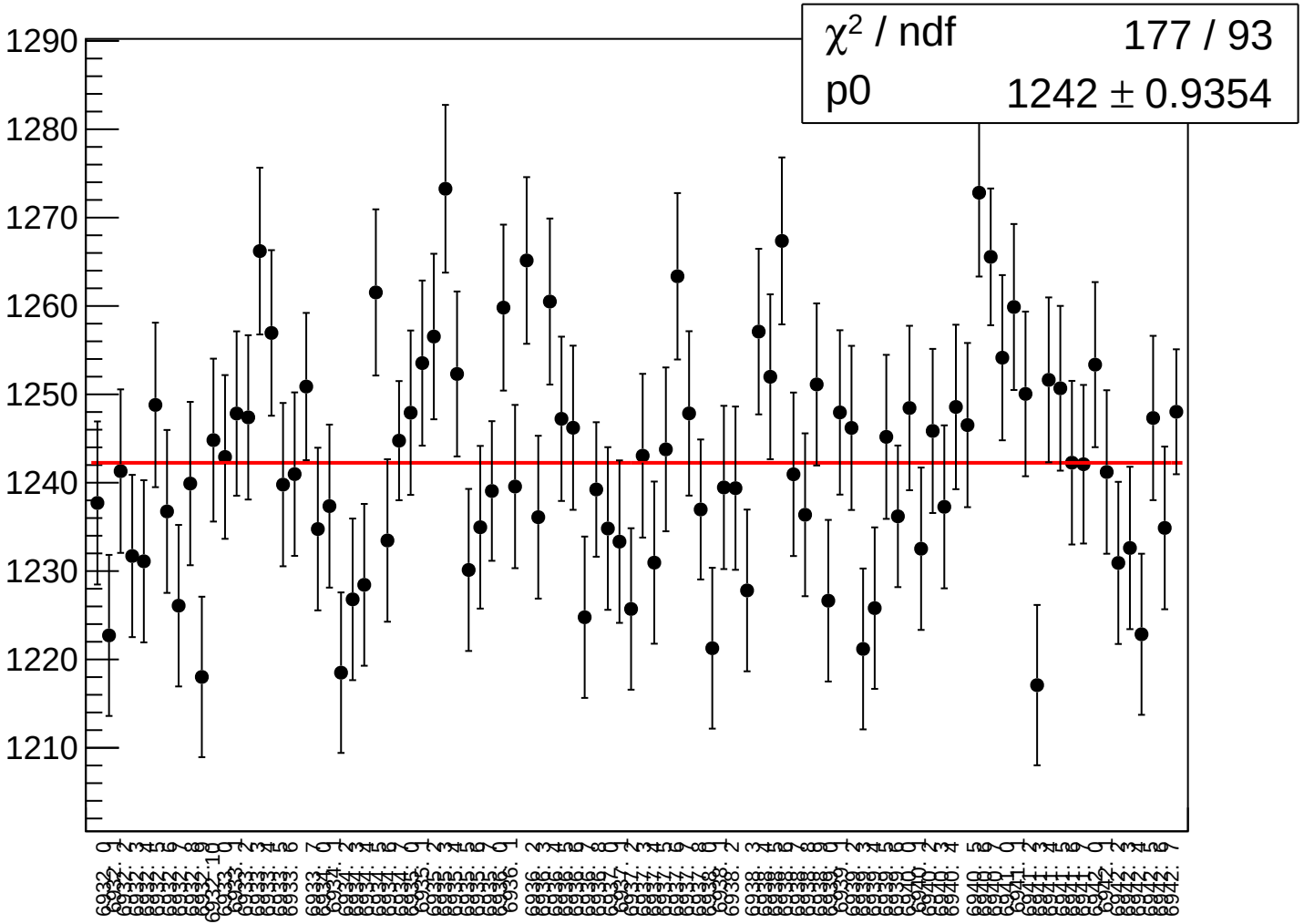

eigen_cor_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 146.7 / 93
p0 1182 ± 0.8897
1220
1210
1200
1190
1180
1170
1160
1150

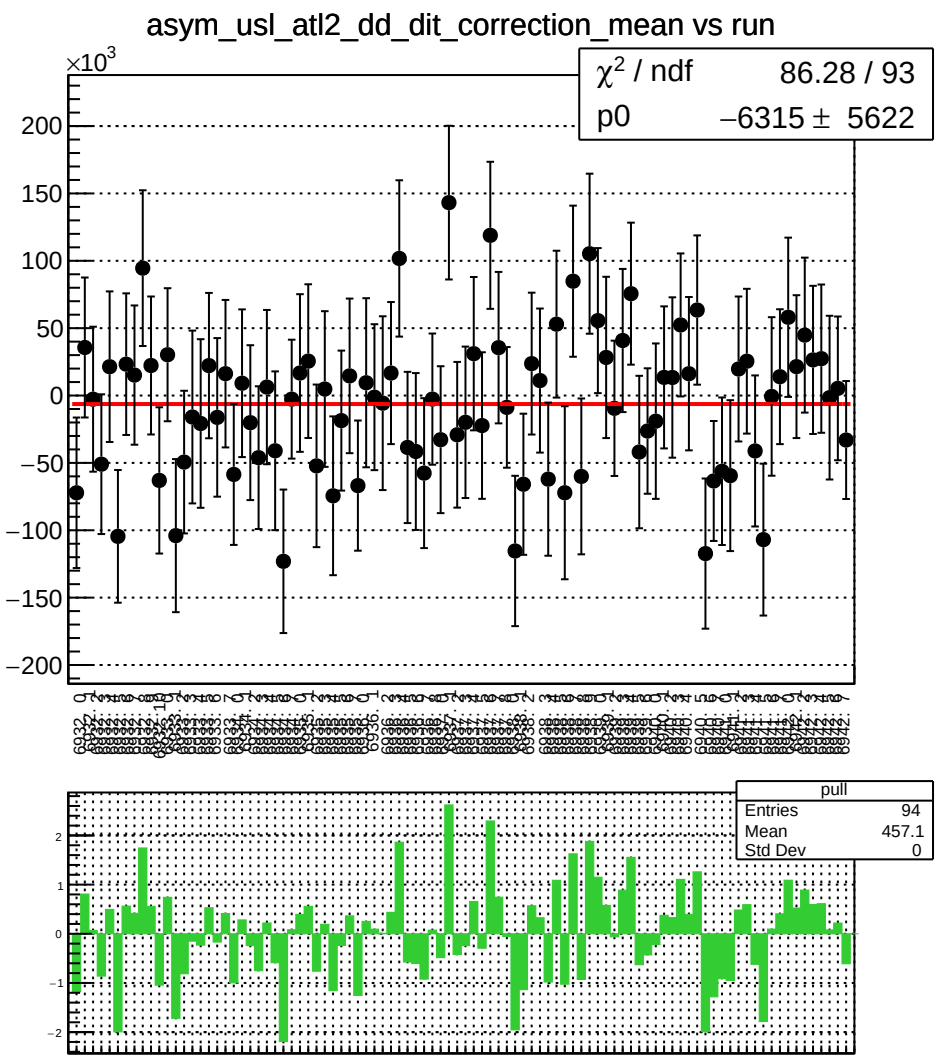

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.76 / 93
p0 −5982 ± 5260
pull
Entries 94
Mean 475
Std Dev 0
pull1D
Entries 94
Mean 0.007255
Std Dev 0.9607

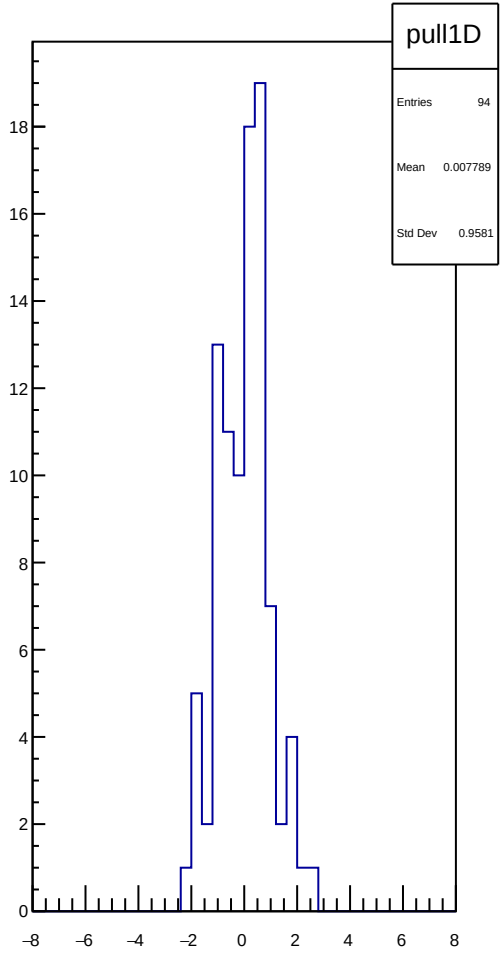

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5729 / 93
p0 4931 ± 3.719
5800
5600
5400
5200
5000
4800
4600
4400

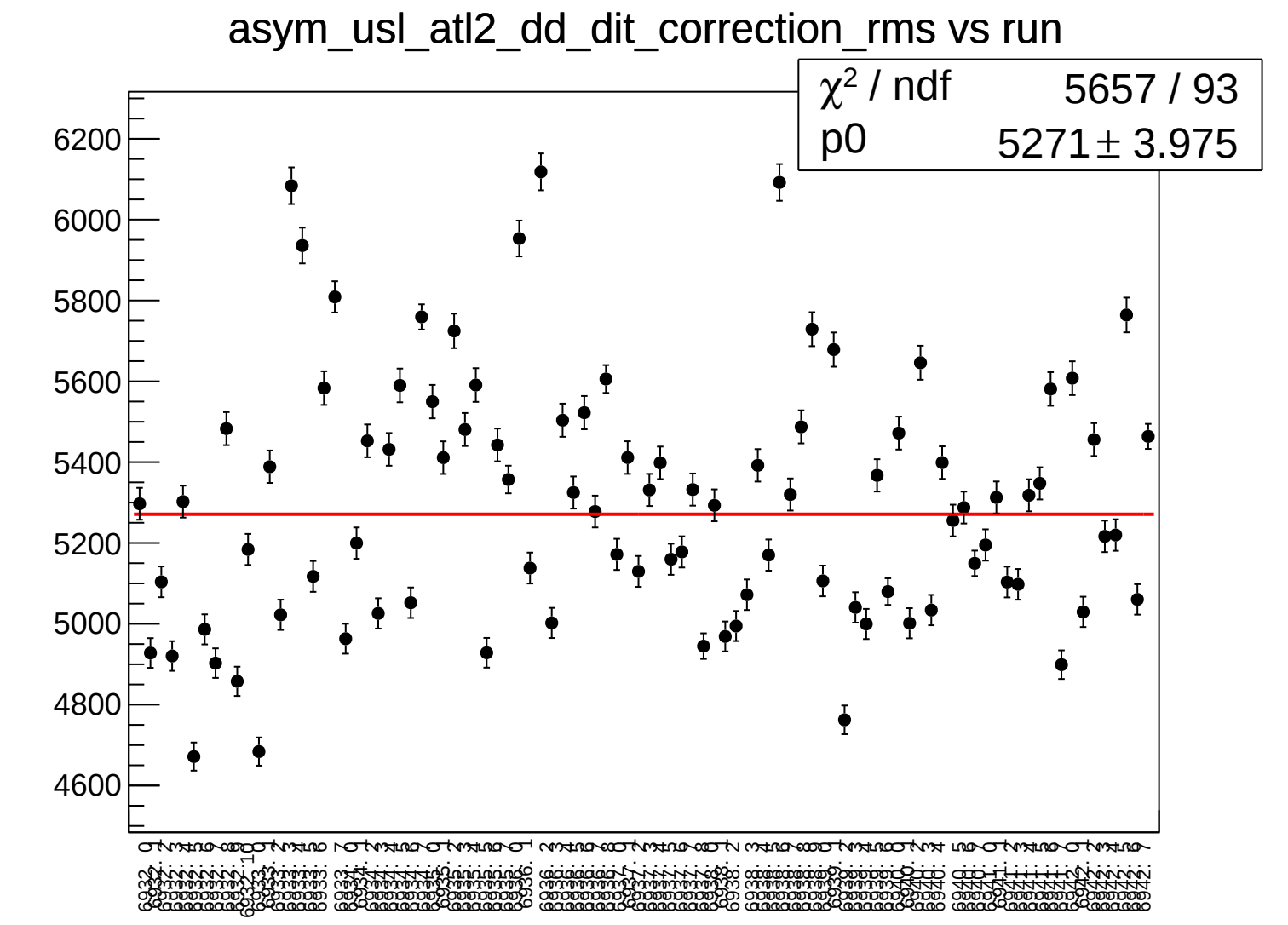

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.3 / 93
p0 1211 ± 1323
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1043
Std Dev 0
3
2
1
0
−1
−2

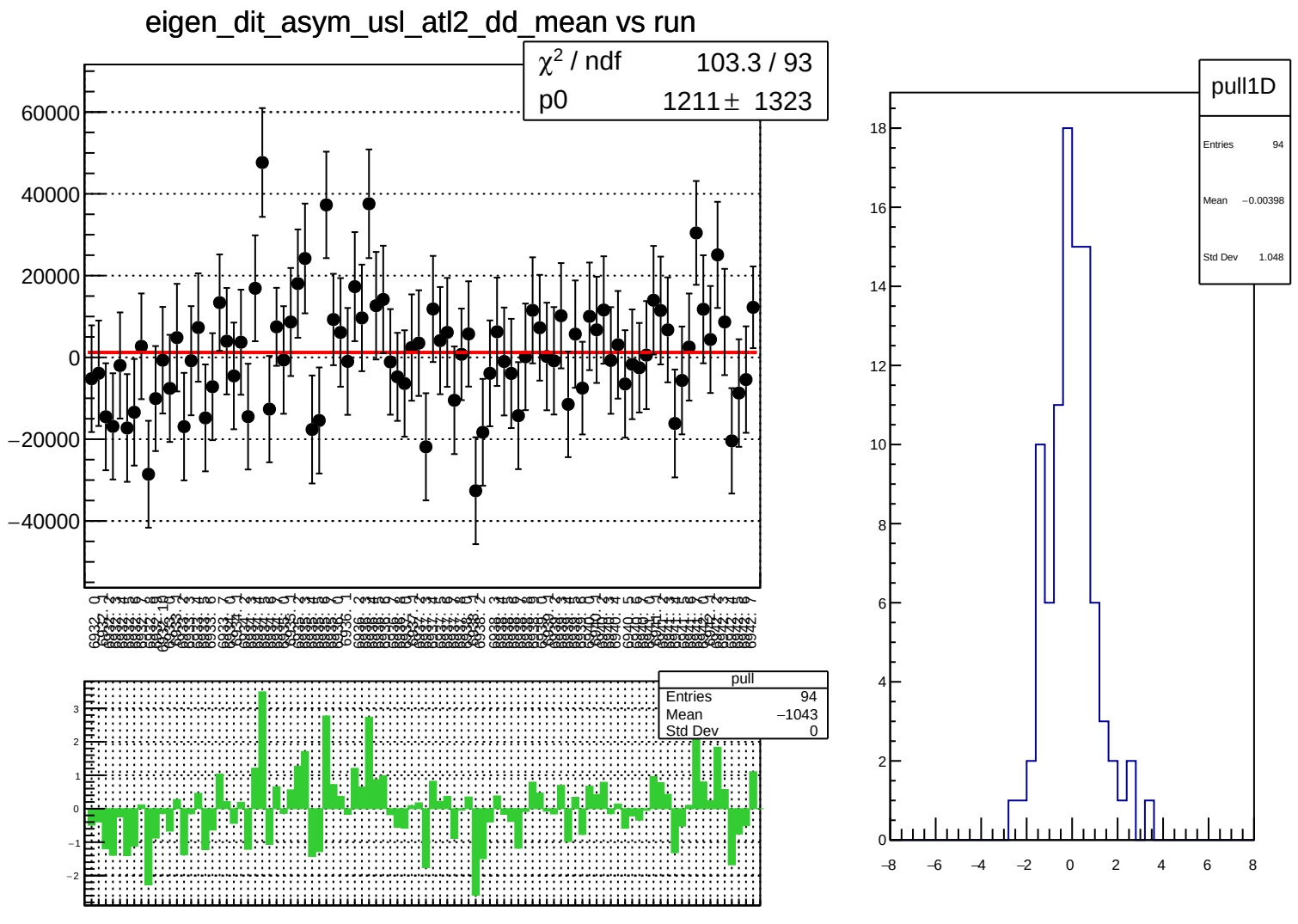

pull1D
Entries 94
Mean −0.00398
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

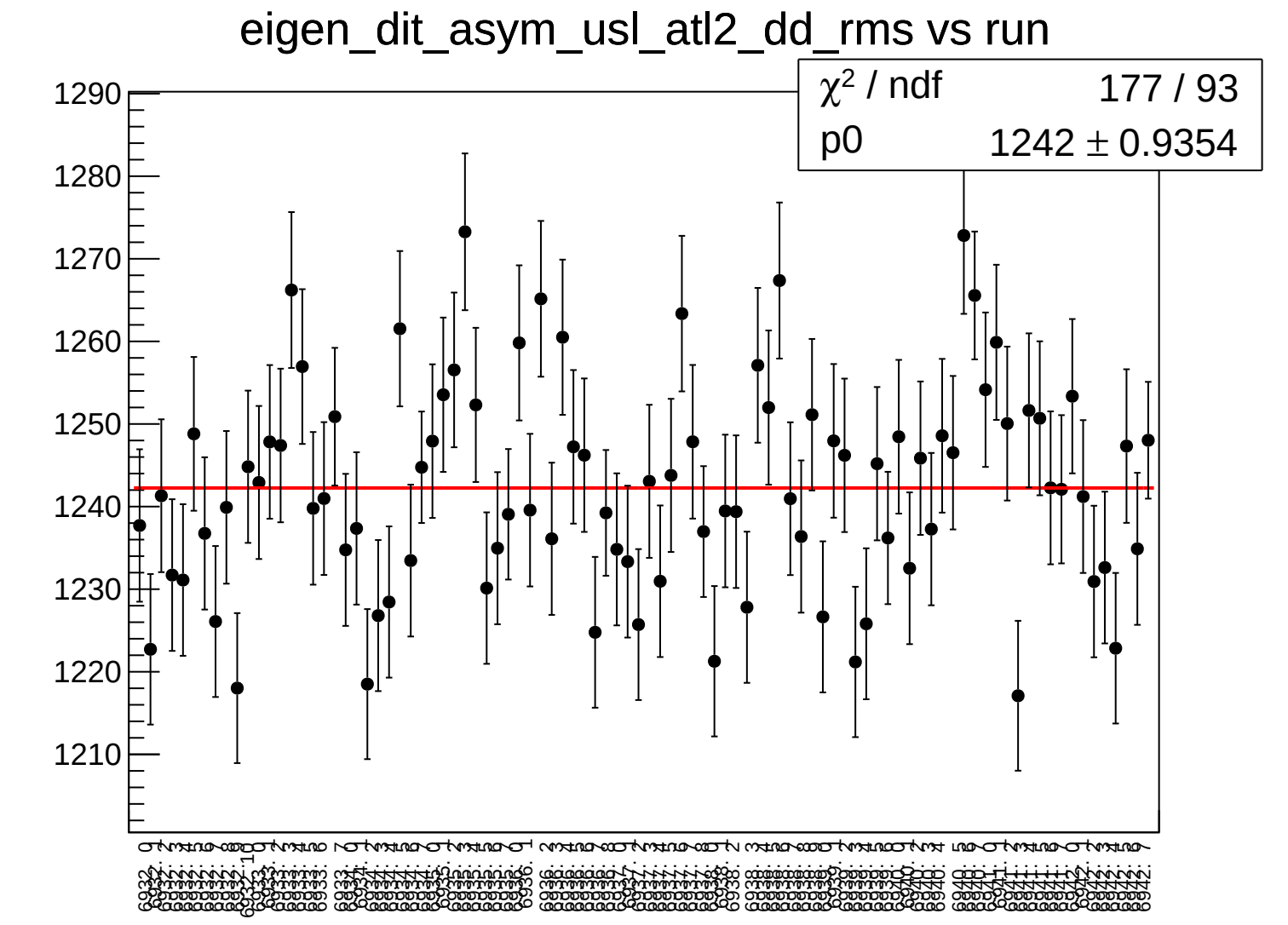

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 177 / 93
p0 1242 ± 0.9354
1290
1280
1270
1260
1250
1240
1230
1220
1210

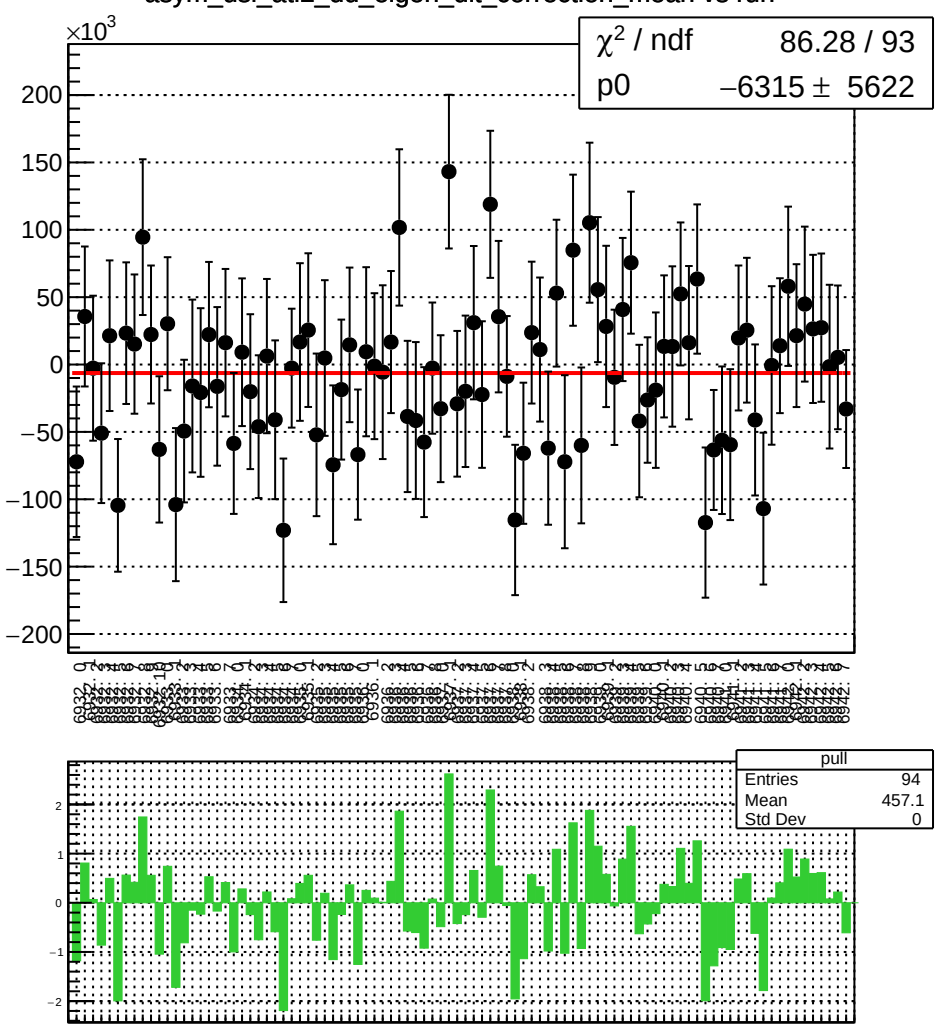

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.28 / 93
p0 −6315 ± 5622
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 457.1
Std Dev 0
2
1
0
−1
−2

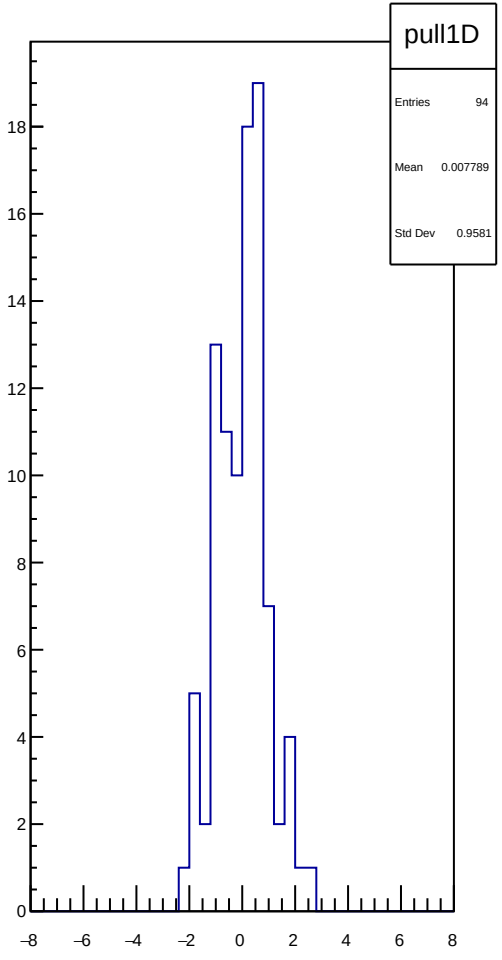

pull1D
Entries 94
Mean 0.007789
Std Dev 0.9581
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

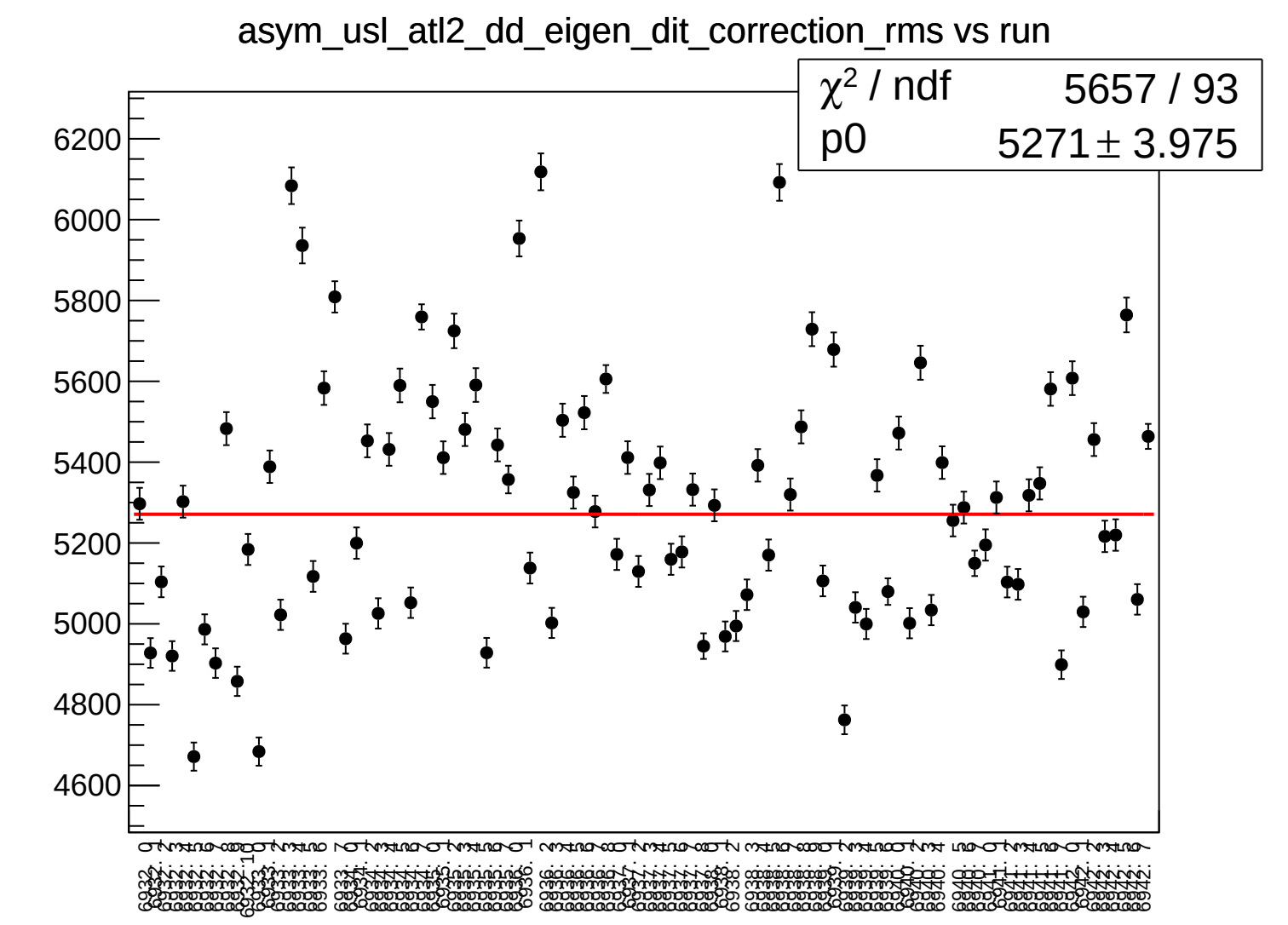

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 5657 / 93
p0 5271 ± 3.975
6200
6000
5800
5600
5400
5200
5000
4800
4600

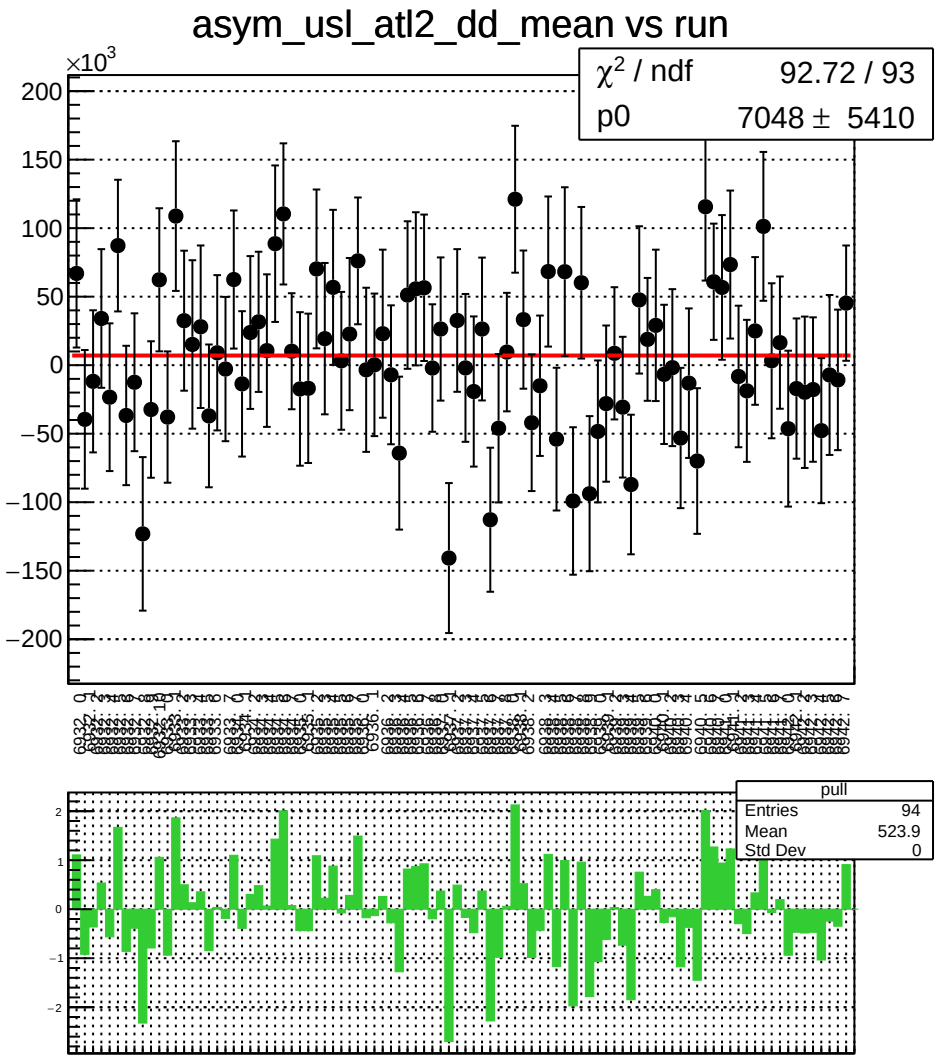

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 103.3 / 93
p0 1211 ± 1323
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1043
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.00398
Std Dev 1.048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

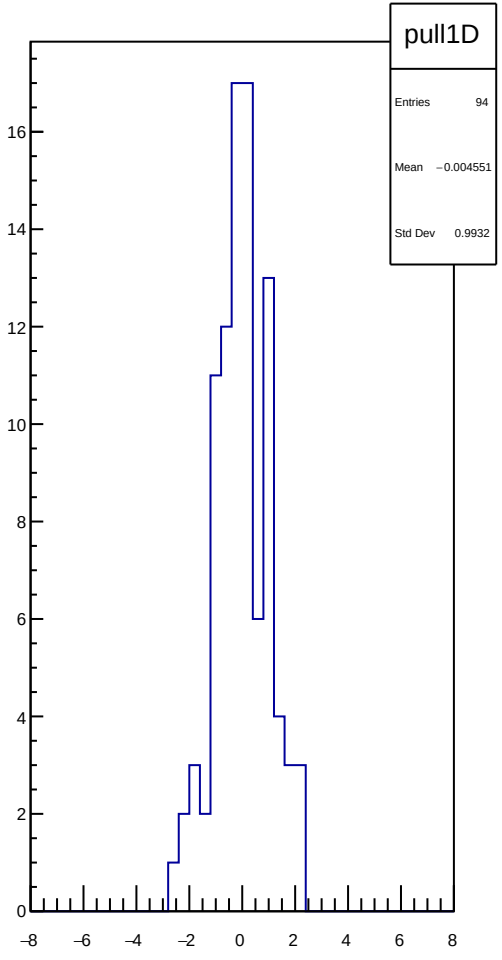

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 177 / 93
p0 1242 ± 0.9354
1290
1280
1270
1260
1250
1240
1230
1220
1210

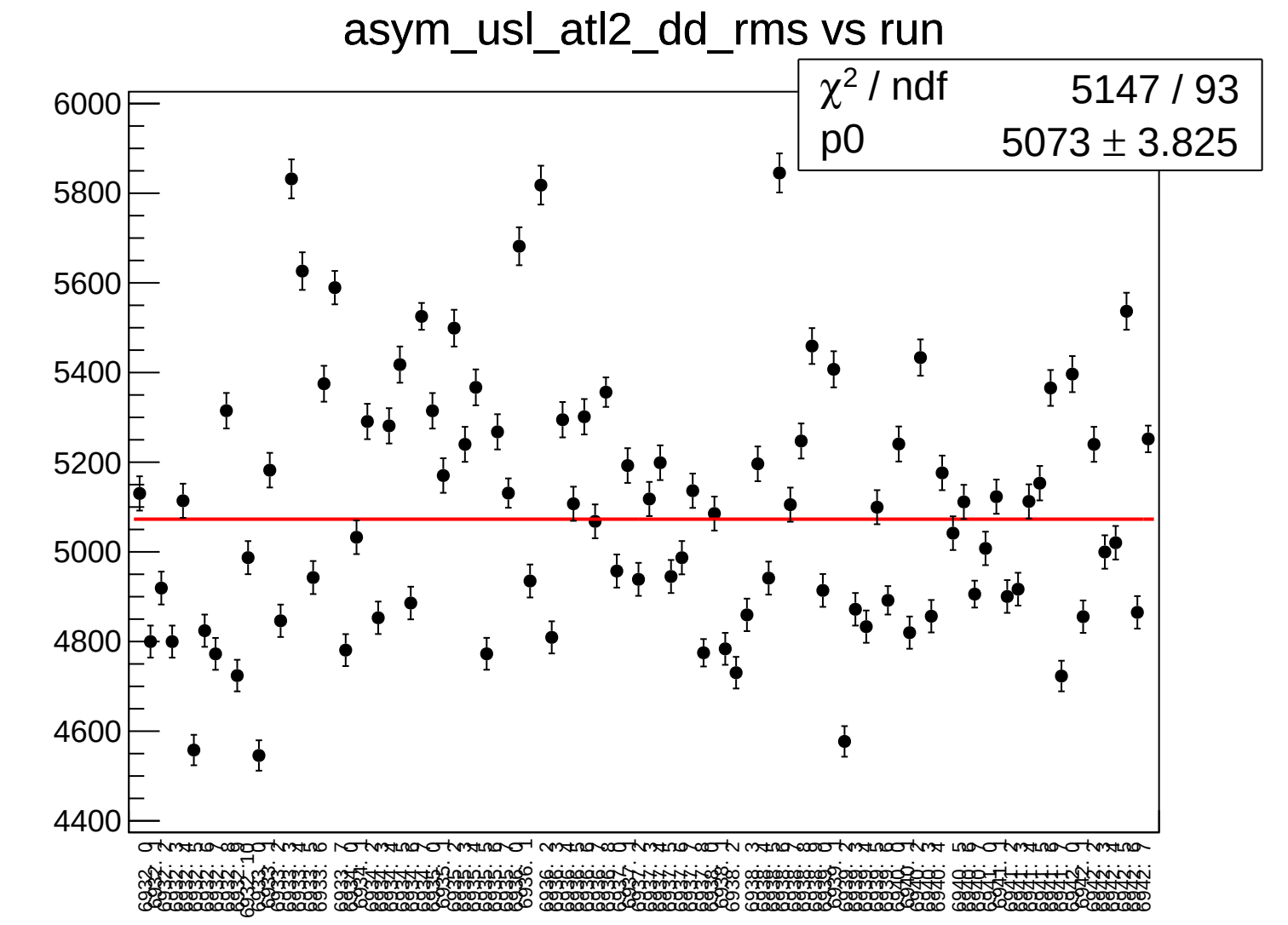

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.28 / 93
p0 −6315 ± 5622
pull
Entries 94
Mean 457.1
Std Dev 0

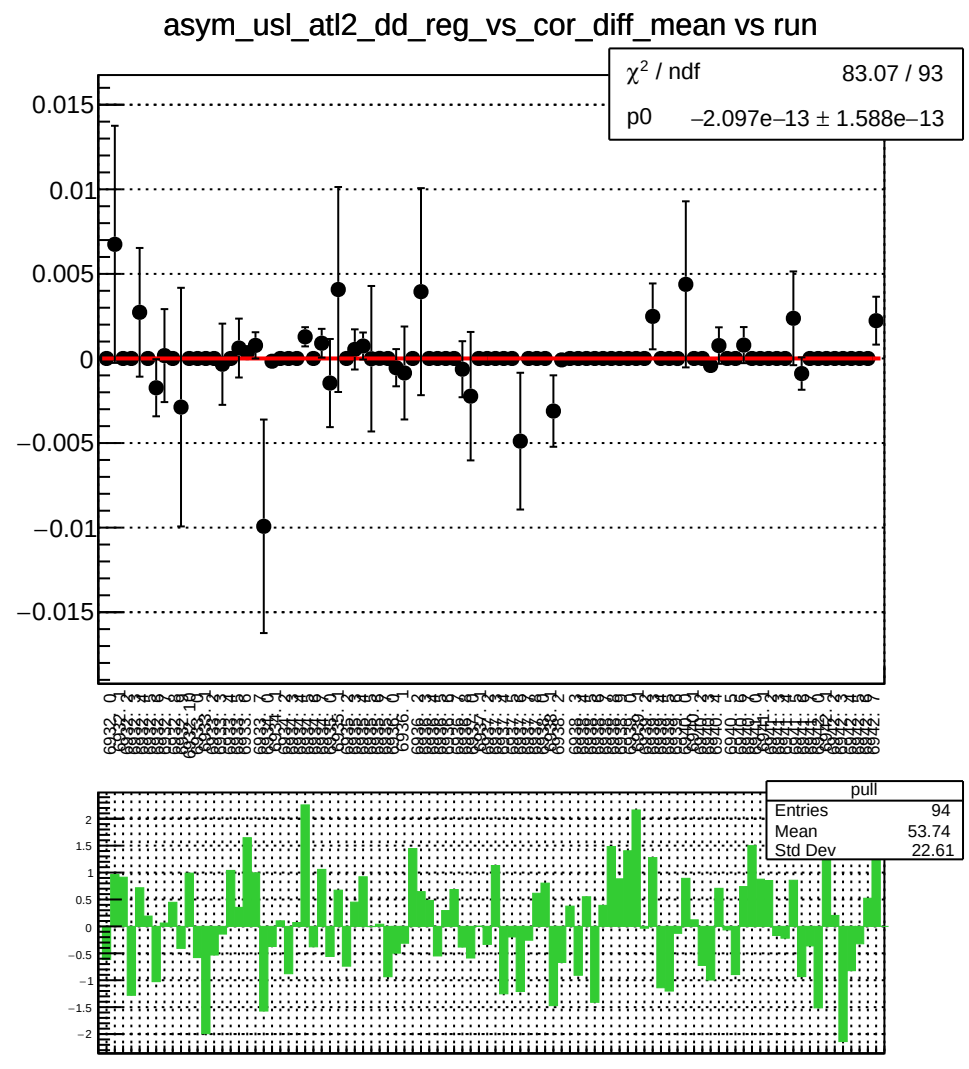

pull1D
Entries 94
Mean 0.007789
Std Dev 0.9581

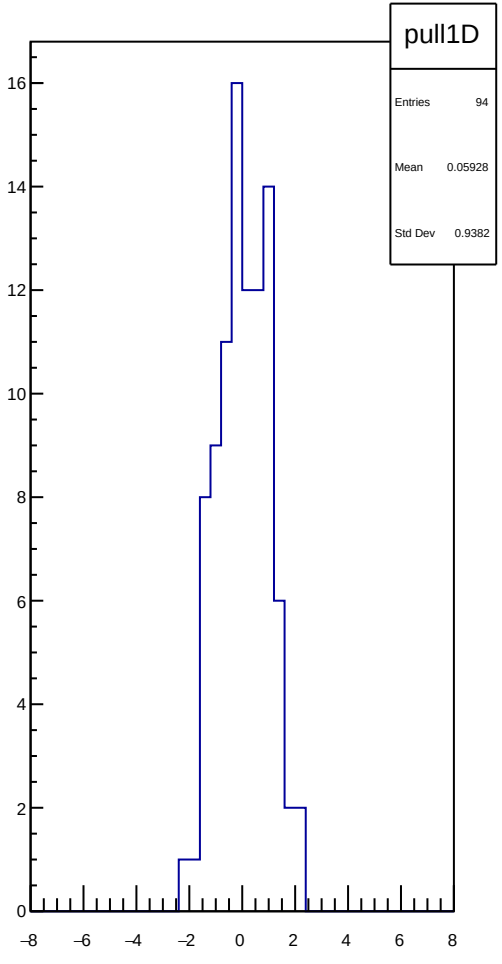

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5657 / 93
p0 5271 ± 3.975
6200
6000
5800
5600
5400
5200
5000
4800
4600

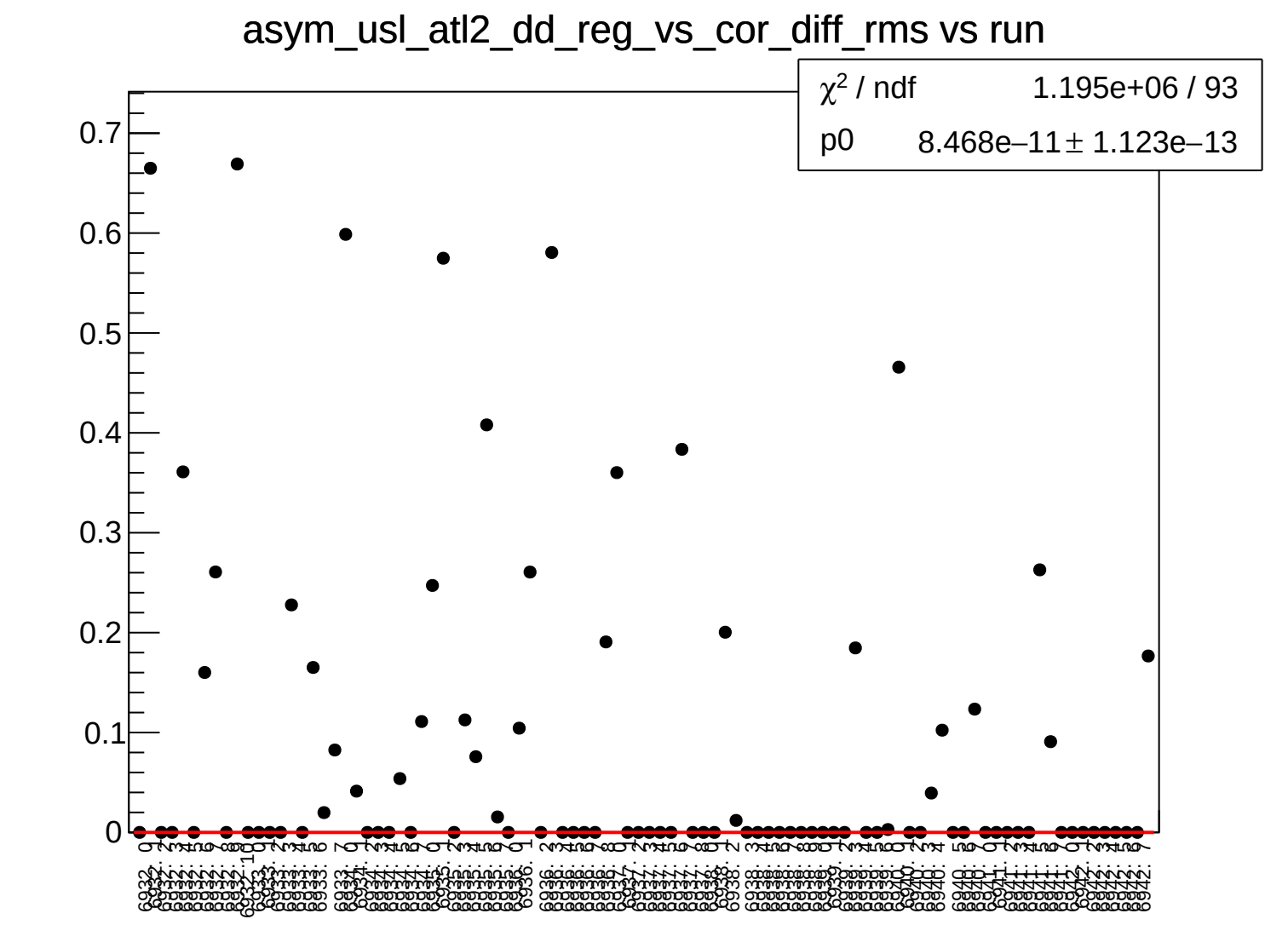

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 92.72 / 93
p0 7048 ± 5410
pull
Entries 94
Mean 523.9
Std Dev 0

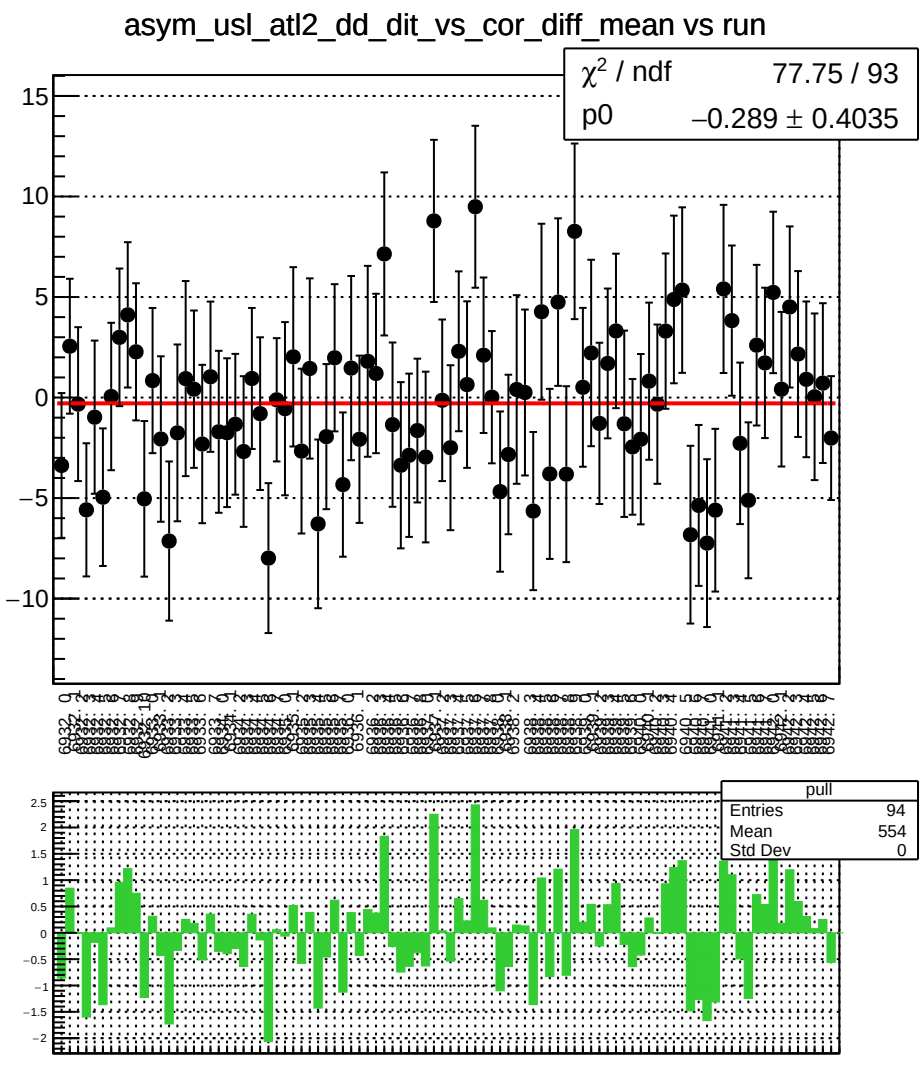

pull1D
Entries 94
Mean −0.004551
Std Dev 0.9932

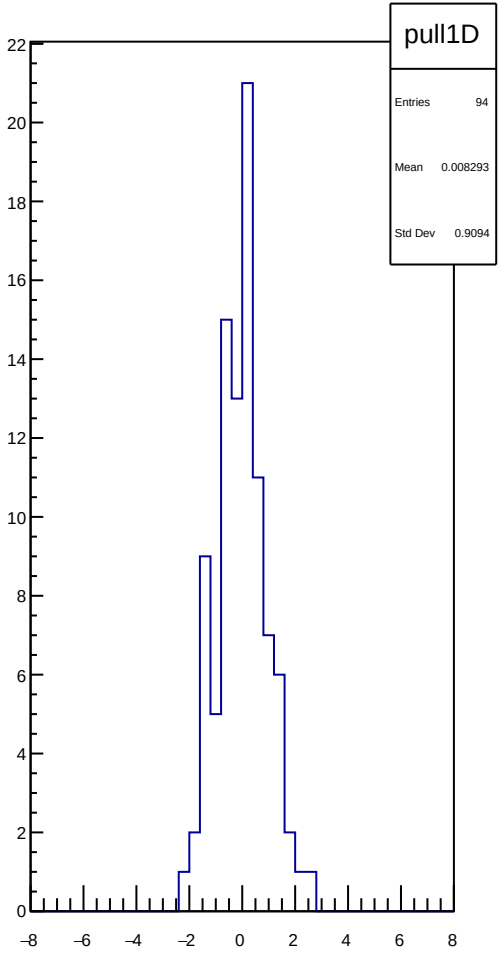

asym_usl_atl2_dd_rms vs run
χ² / ndf 5147 / 93
p0 5073 ± 3.825
6000
5800
5600
5400
5200
5000
4800
4600
4400

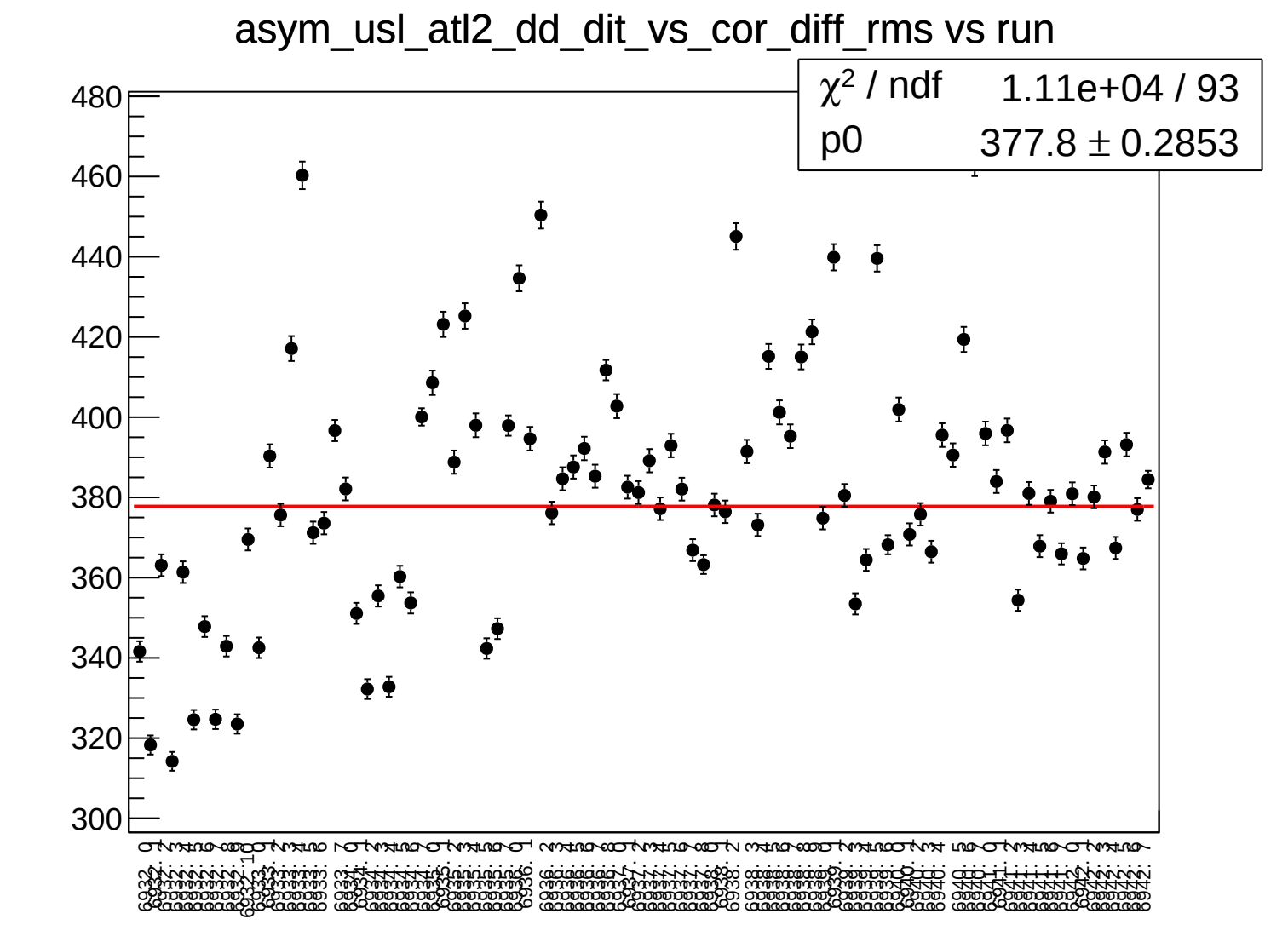

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.07 / 93
p0 −2.097e−13 ± 1.588e−13
pull
Entries 94
Mean 53.74
Std Dev 22.61

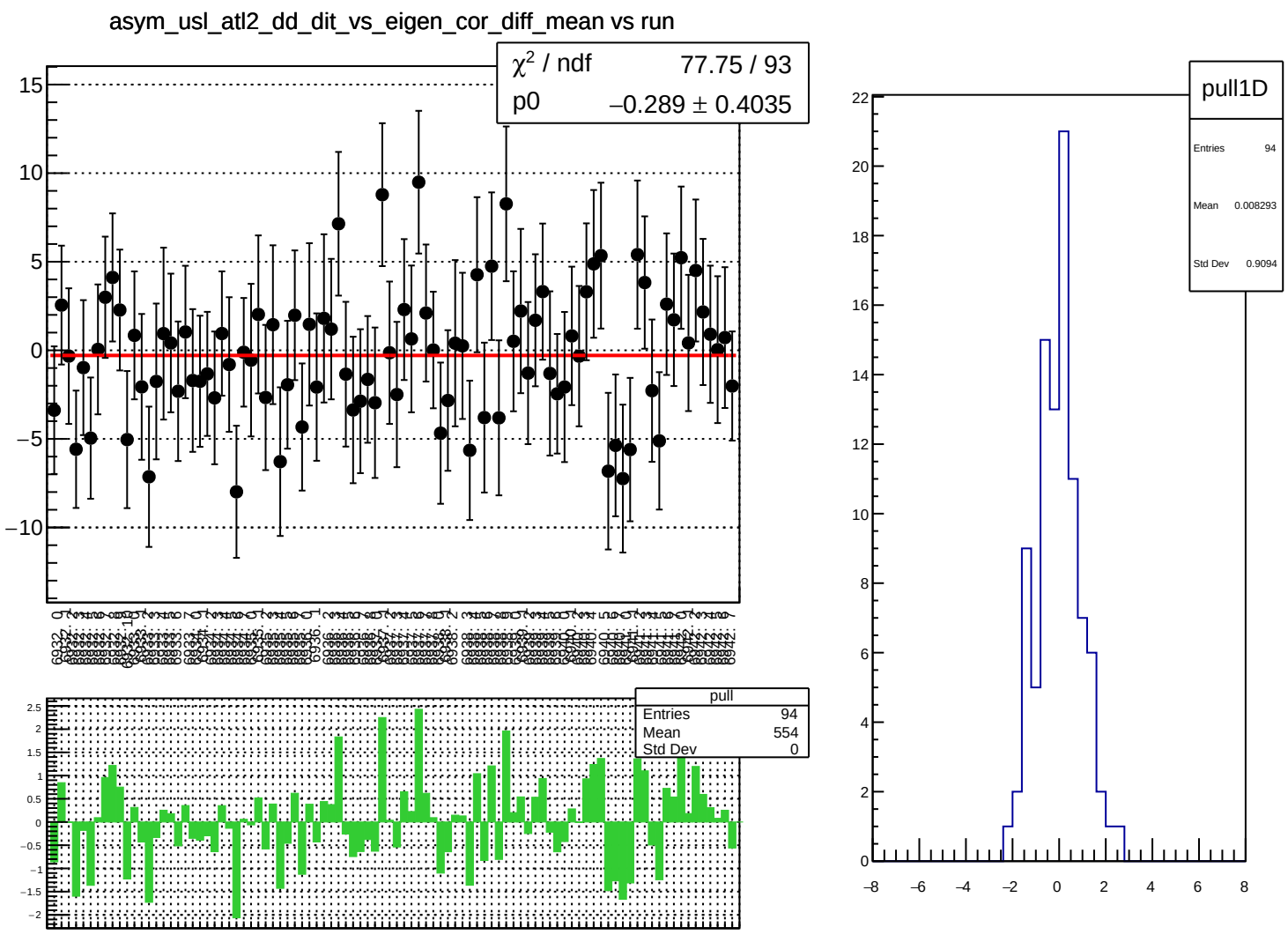

pull1D
Entries 94
Mean 0.05928
Std Dev 0.9382

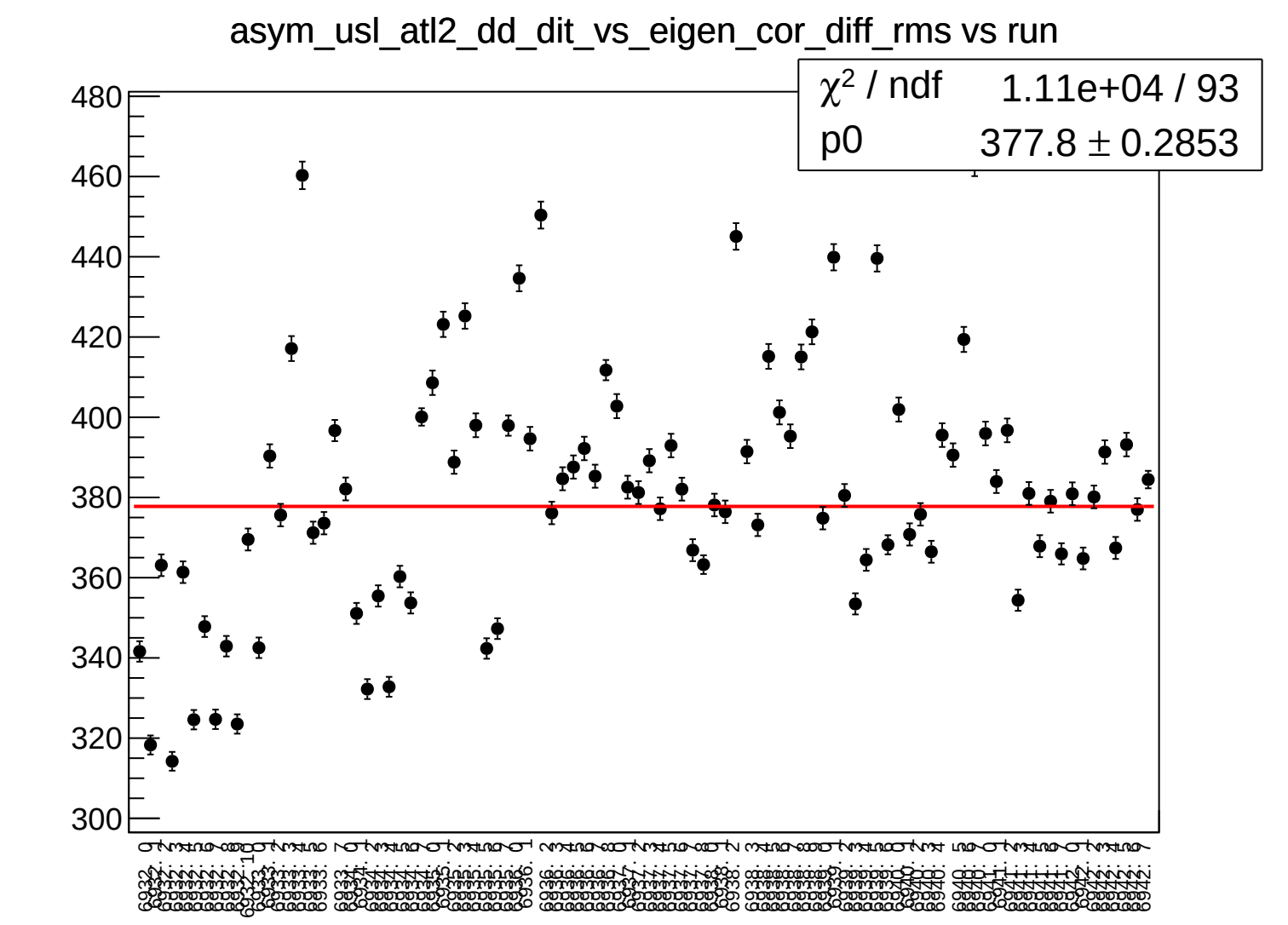

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.195e+06 / 93
p0 8.468e−11 ± 1.123e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

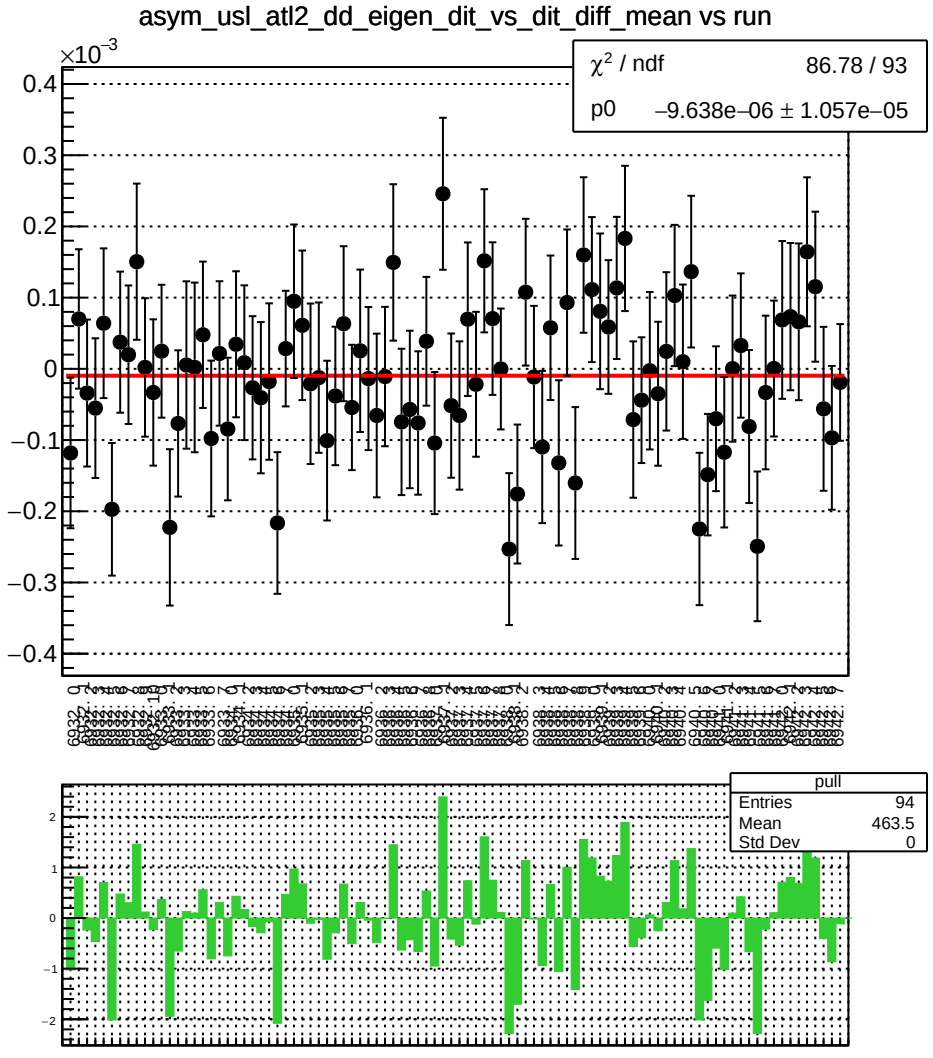

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.75 / 93
p0 −0.289 ± 0.4035
pull
Entries 94
Mean 554
Std Dev 0

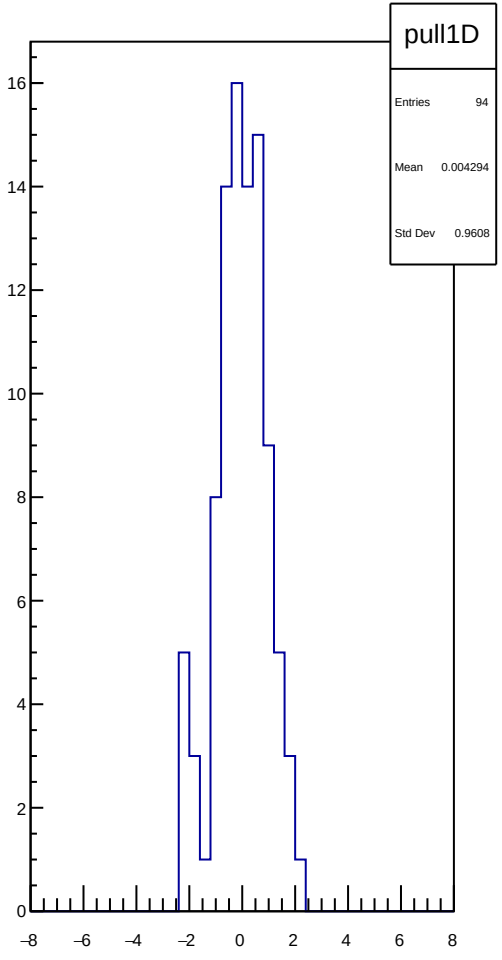

pull1D
Entries 94
Mean 0.008293
Std Dev 0.9094

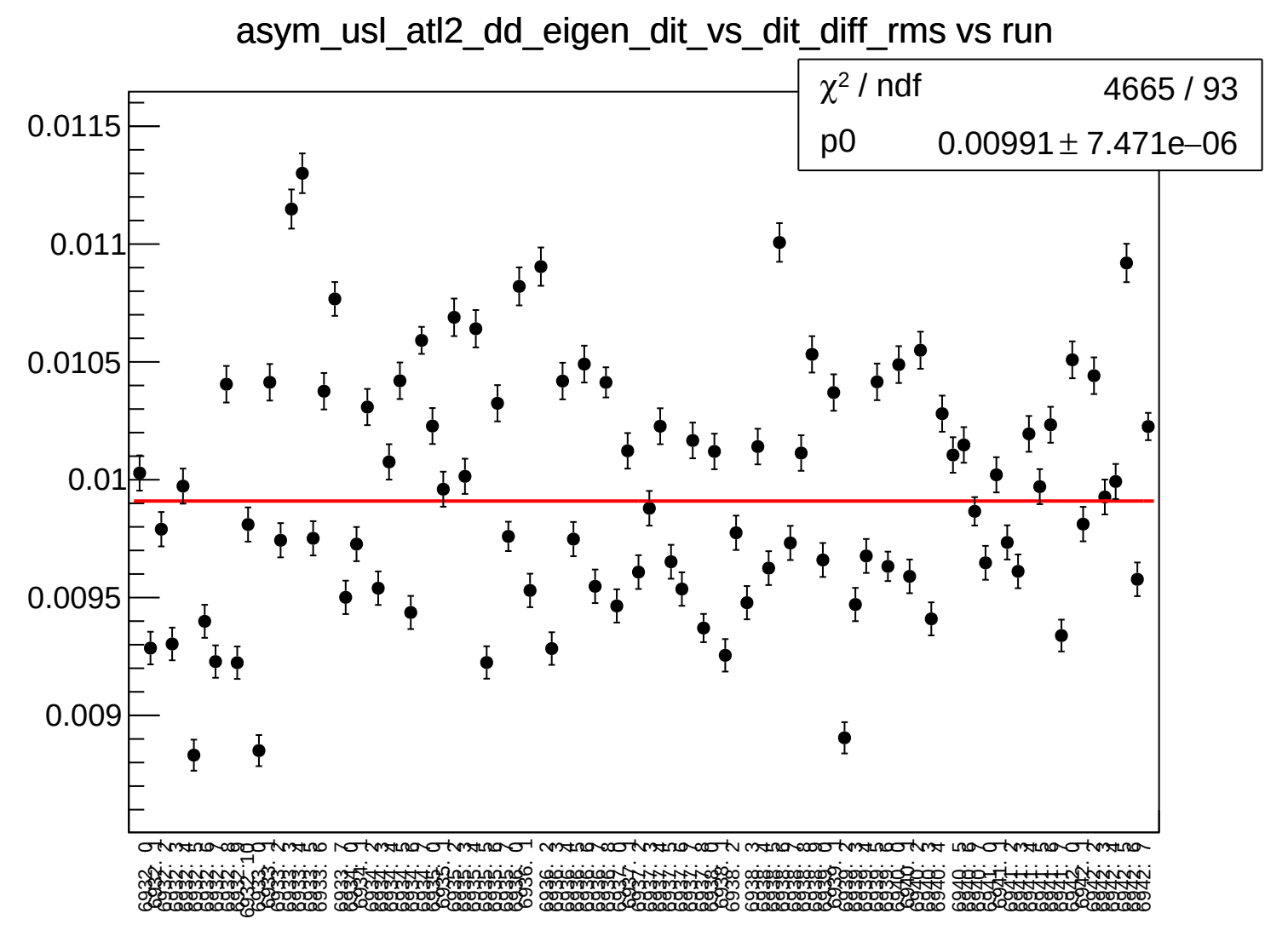

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.11e+04 / 93
p0 377.8 ± 0.2853
480
460
440
420
400
380
360
340
320
300

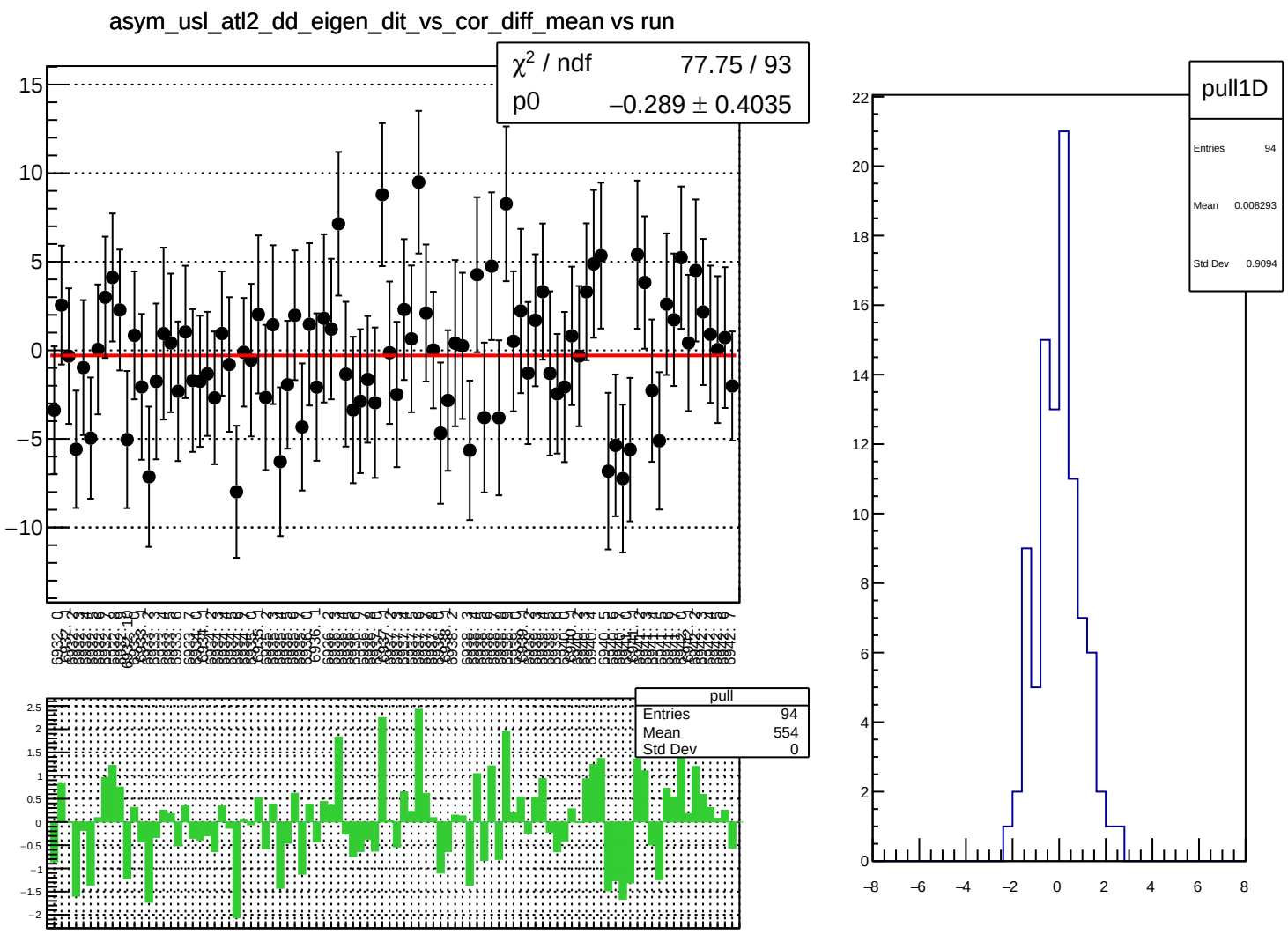

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.75 / 93
p0 −0.289 ± 0.4035
pull
Entries 94
Mean 554
Std Dev 0
pull1D
Entries 94
Mean 0.008293
Std Dev 0.9094

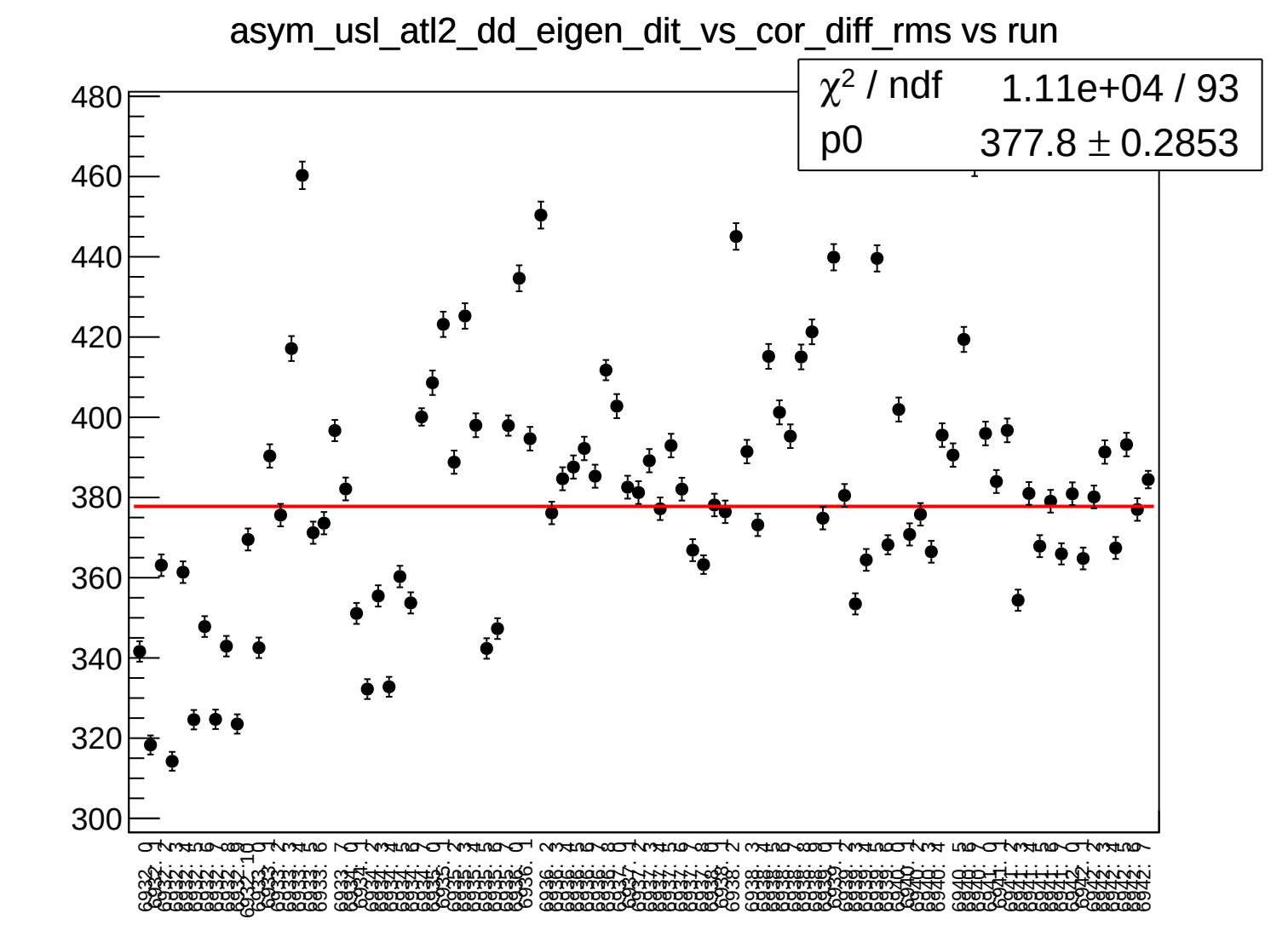

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.11e+04 / 93
p0 377.8 ± 0.2853
480
460
440
420
400
380
360
340
320
300

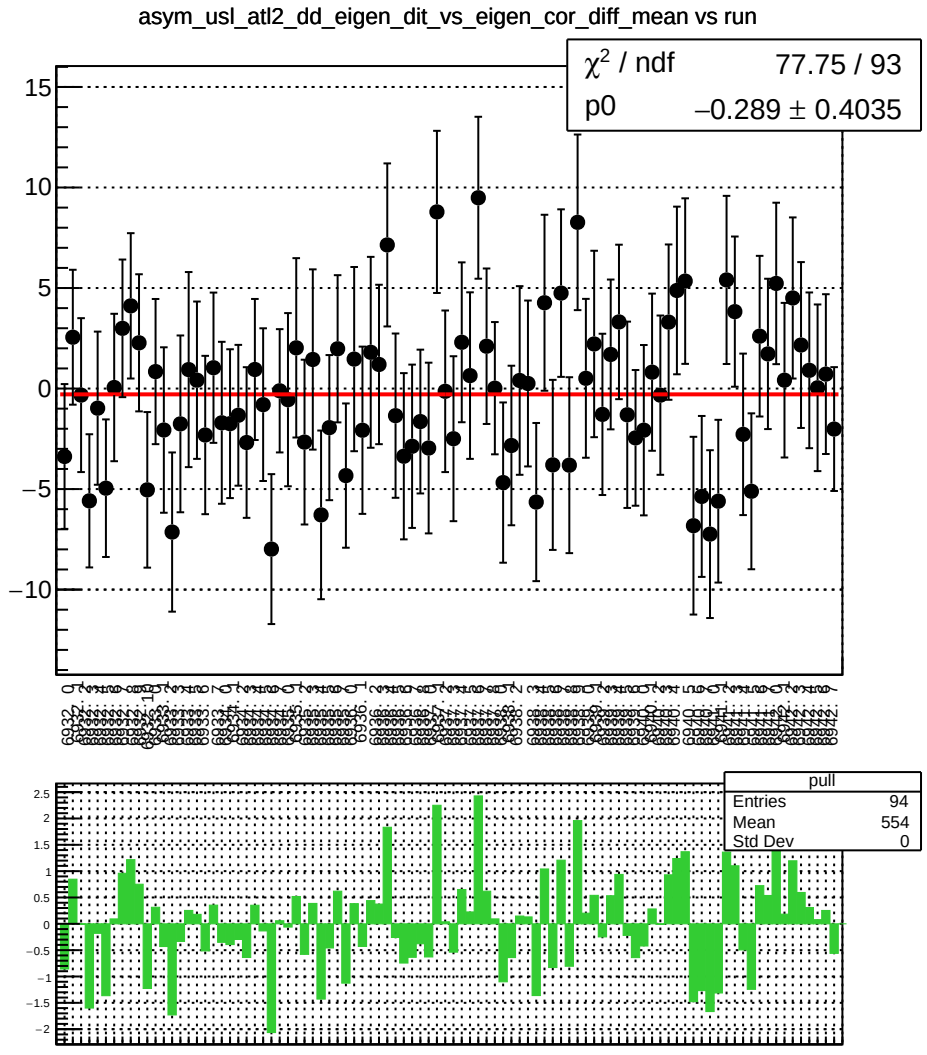

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.78 / 93
p0 −9.638e−06 ± 1.057e−05
pull
Entries 94
Mean 463.5
Std Dev 0

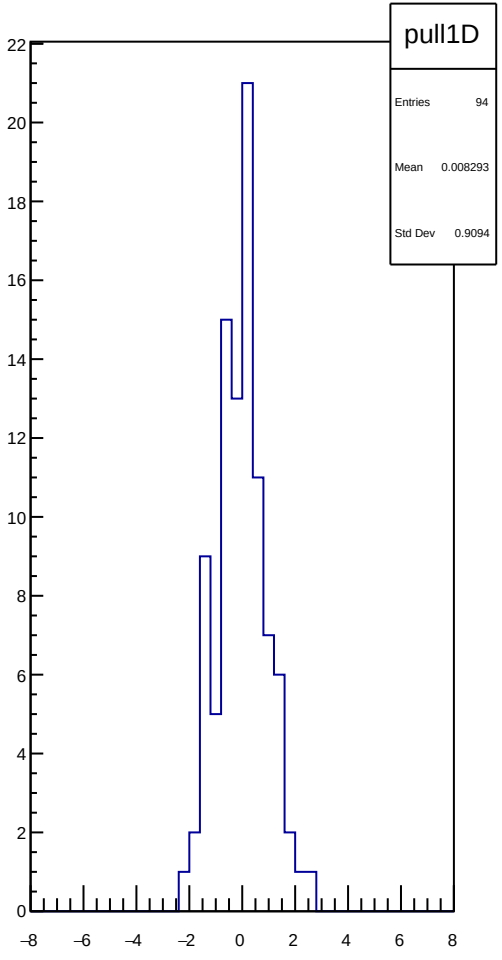

pull1D
Entries 94
Mean 0.004294
Std Dev 0.9608

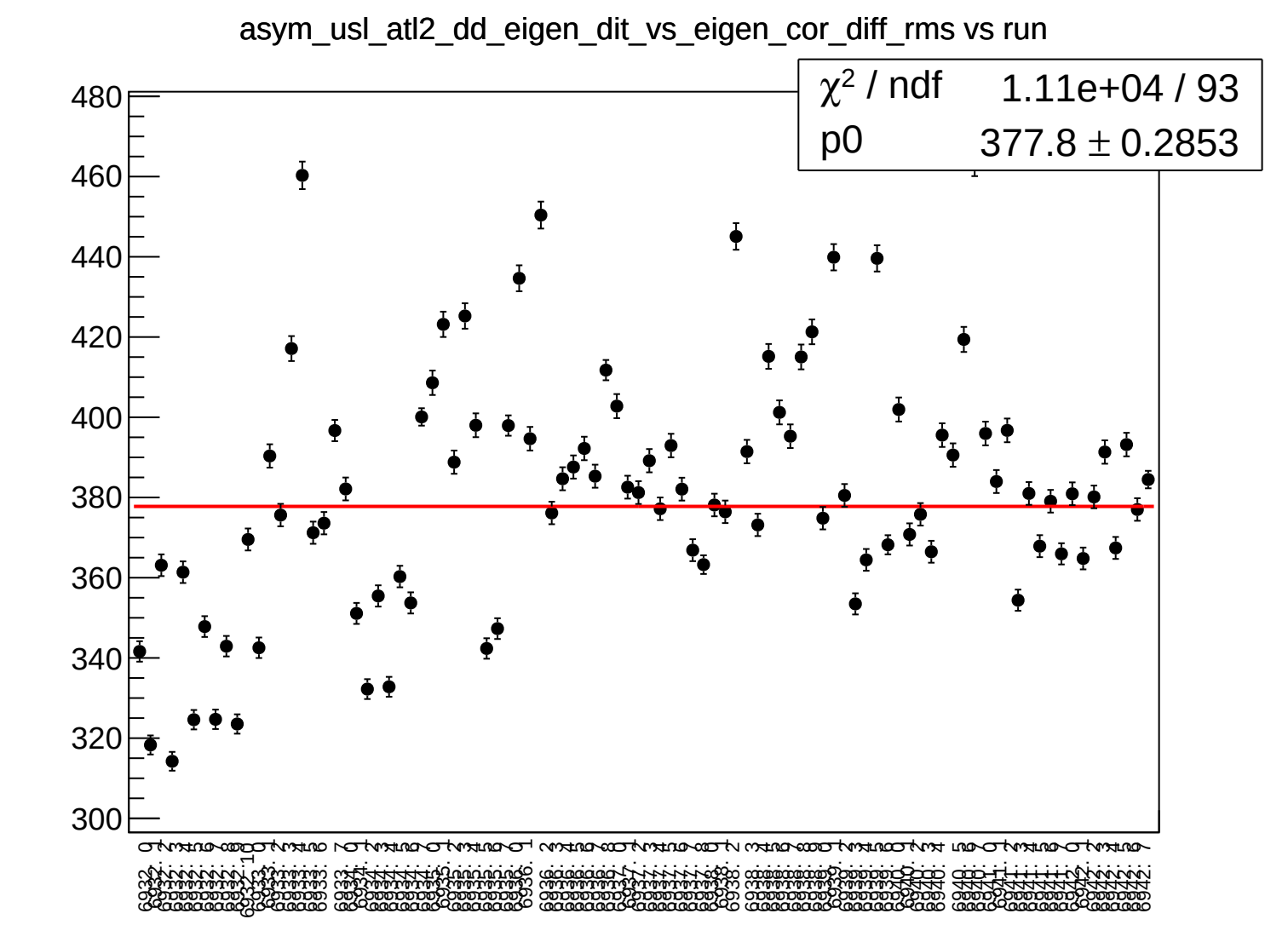

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4665 / 93
p0 0.00991 ± 7.471e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009

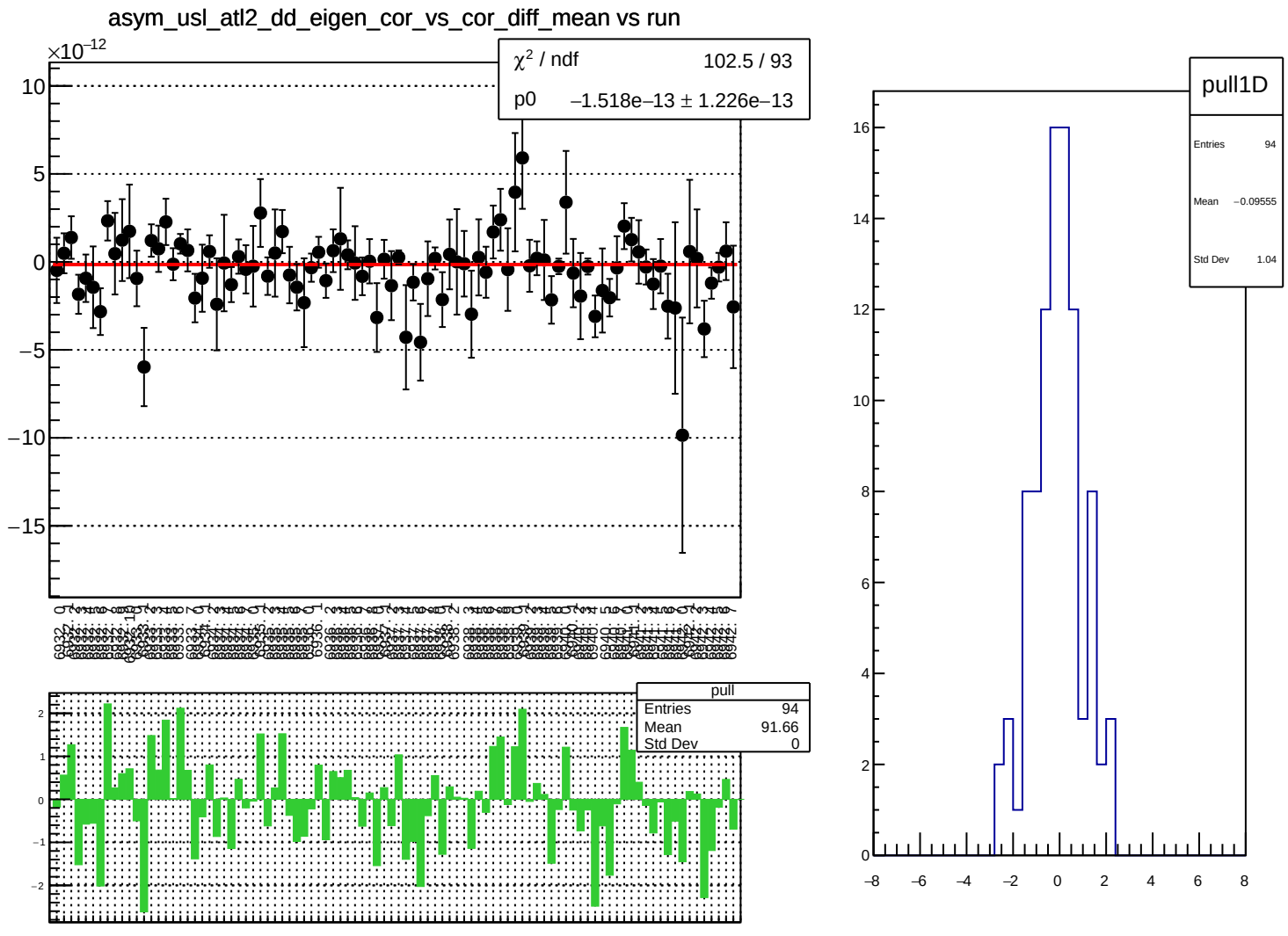

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.75 / 93
p0 −0.289 ± 0.4035
pull
Entries 94
Mean 554
Std Dev 0
pull1D
Entries 94
Mean 0.008293
Std Dev 0.9094

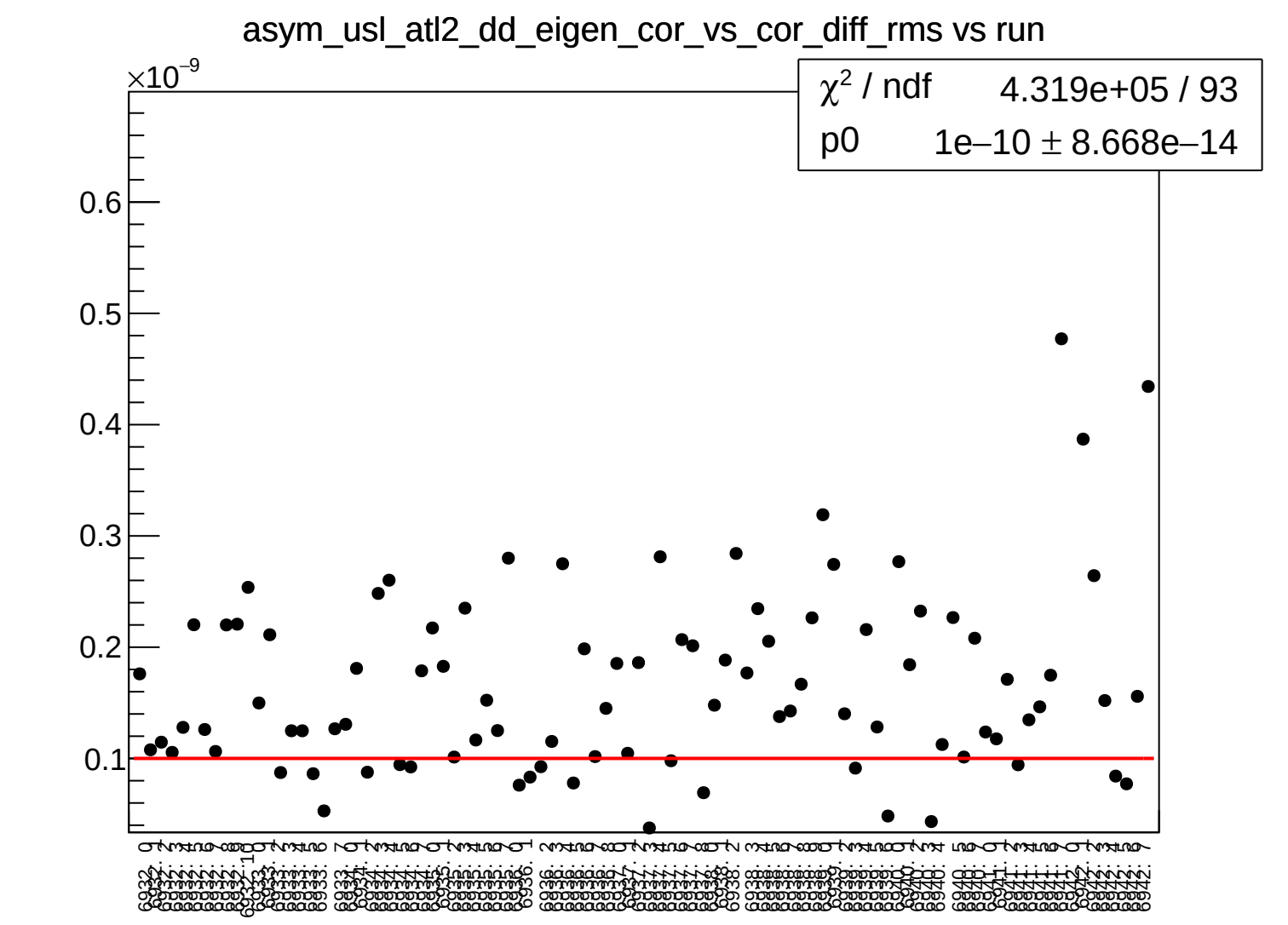

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.11e+04 / 93
p0 377.8 ± 0.2853
480
460
440
420
400
380
360
340
320
300

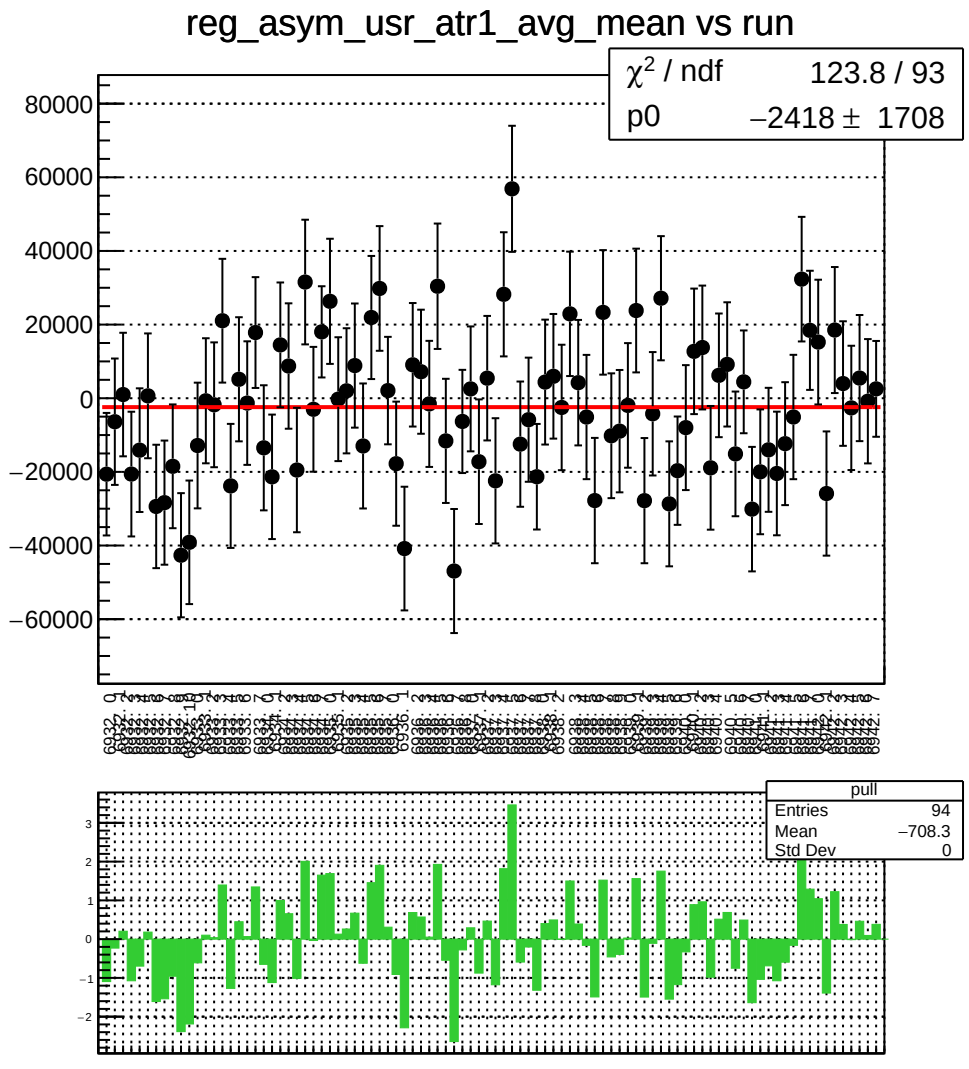

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.75 / 93
p0 −0.289 ± 0.4035
pull
Entries 94
Mean 554
Std Dev 0

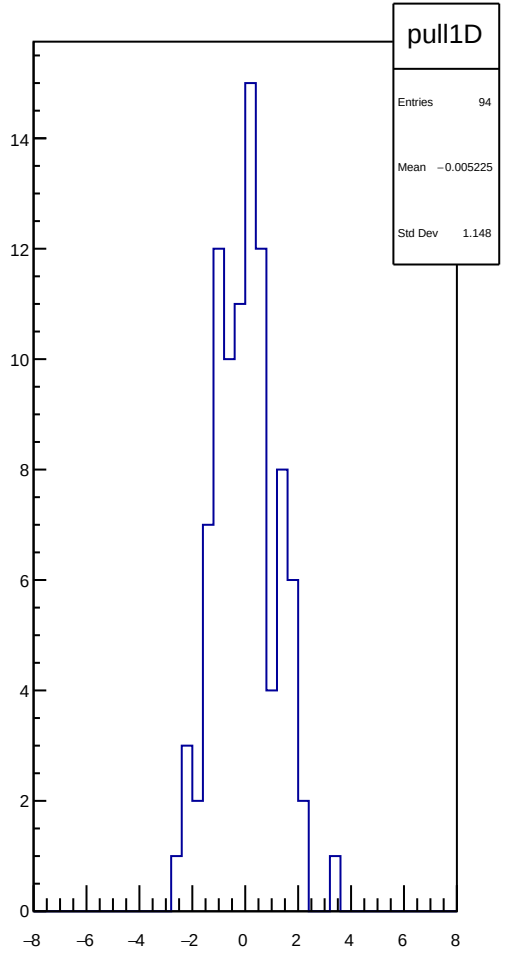

pull1D
Entries 94
Mean 0.008293
Std Dev 0.9094

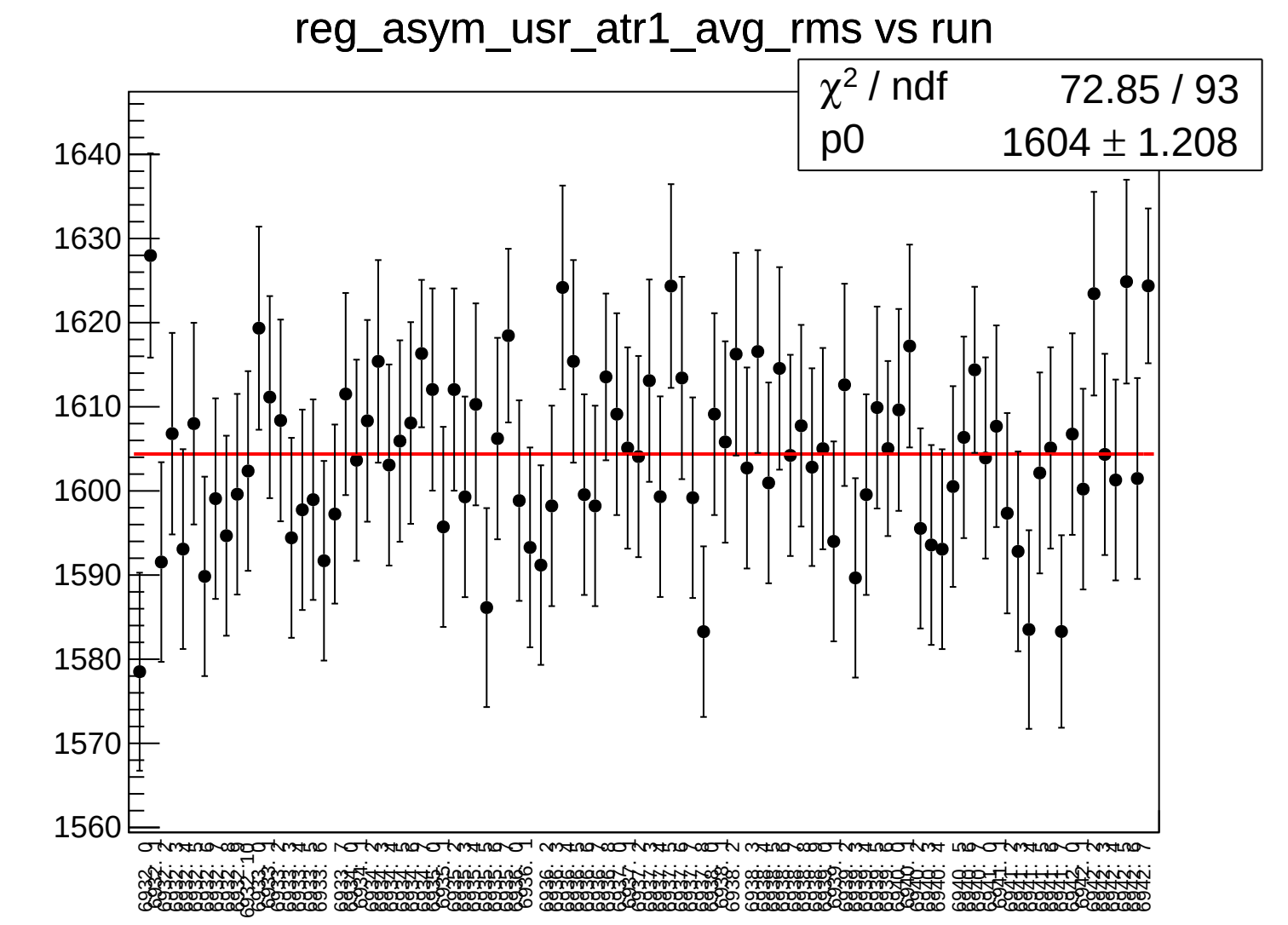

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.11e+04 / 93
p0 377.8 ± 0.2853
480
460
440
420
400
380
360
340
320
300

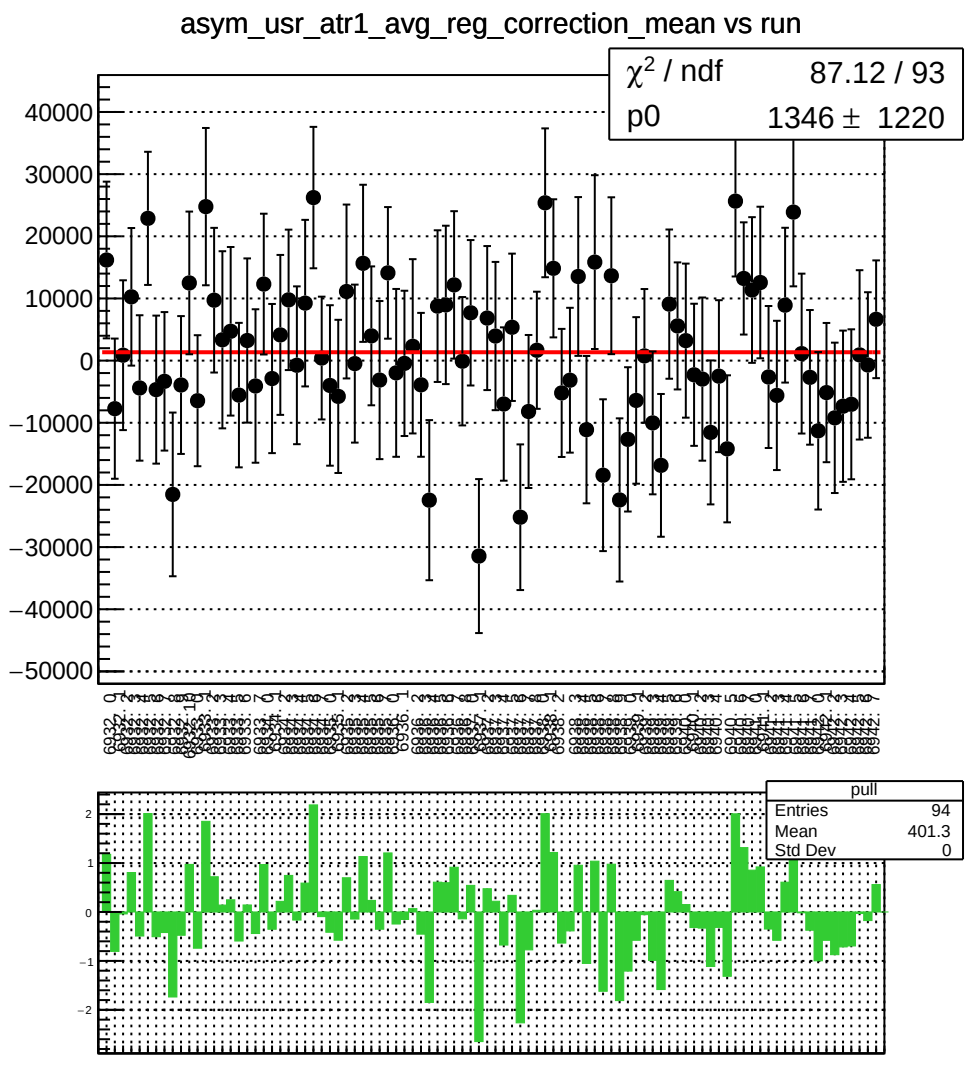

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.5 / 93
p0 −1.518e−13 ± 1.226e−13
pull
Entries 94
Mean 91.66
Std Dev 0
pull1D
Entries 94
Mean −0.09555
Std Dev 1.04

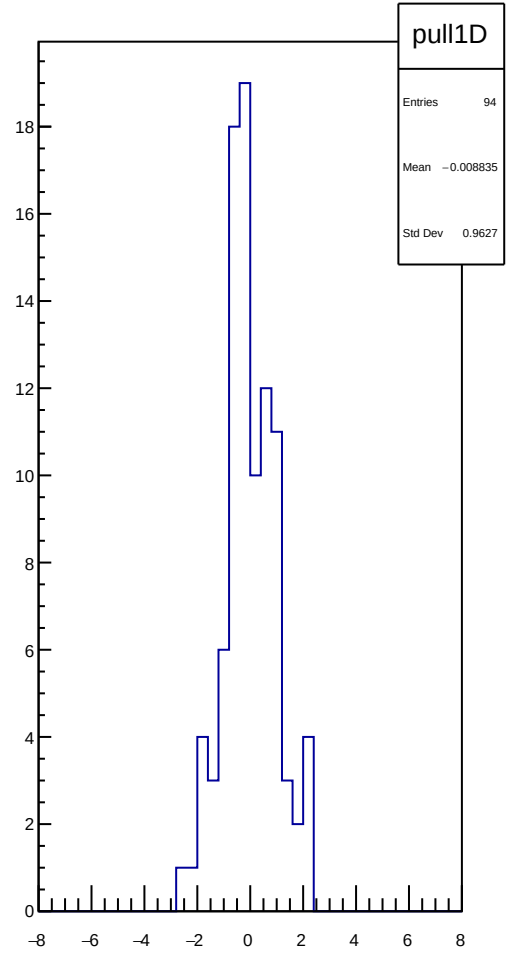

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.319e+05 / 93
p0 1e−10 ± 8.668e−14
0.6
0.5
0.4
0.3
0.2
0.1

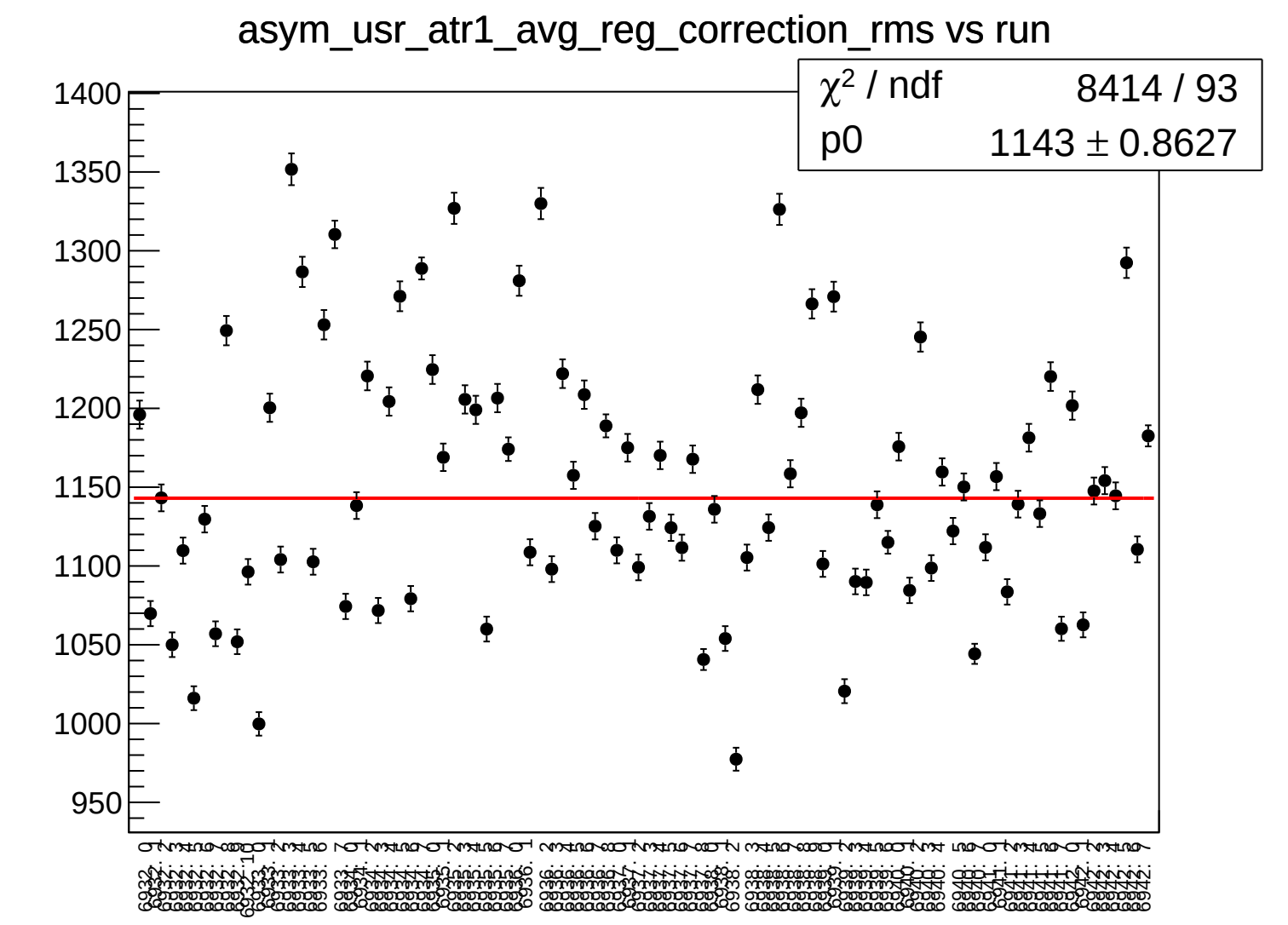

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 123.8 / 93
p0 −2418 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −708.3
Std Dev 0
3
2
1
0
−1
−2

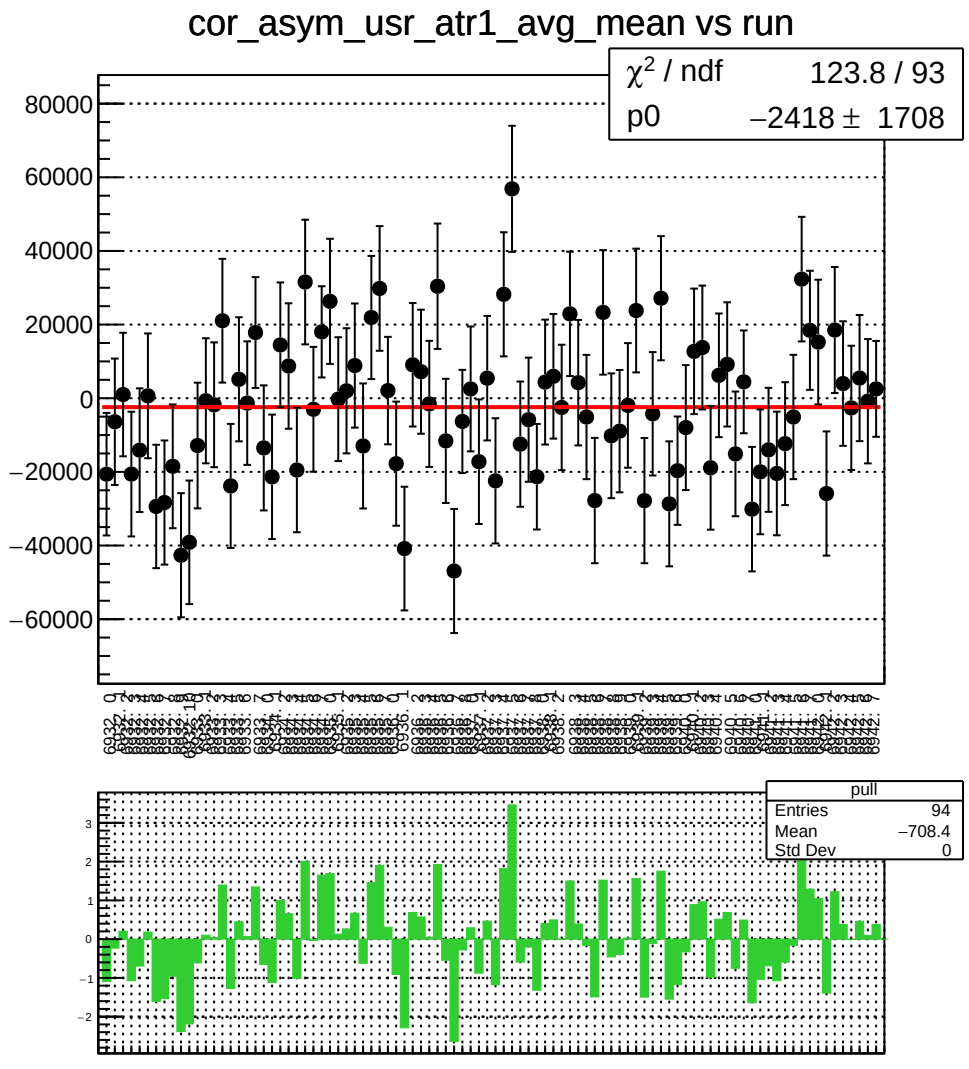

pull1D
Entries 94
Mean −0.005225
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

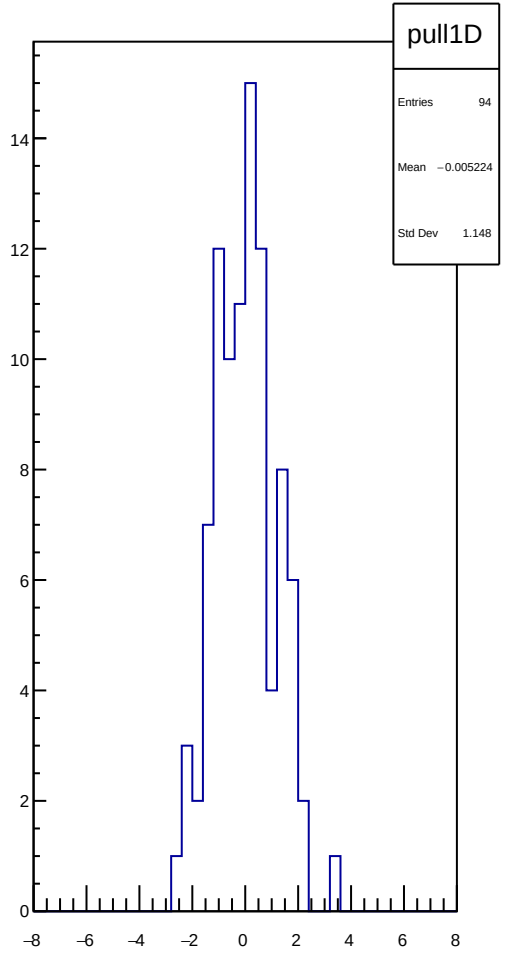

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 72.85 / 93
p0 1604 ± 1.208
1640
1630
1620
1610
1600
1590
1580
1570
1560

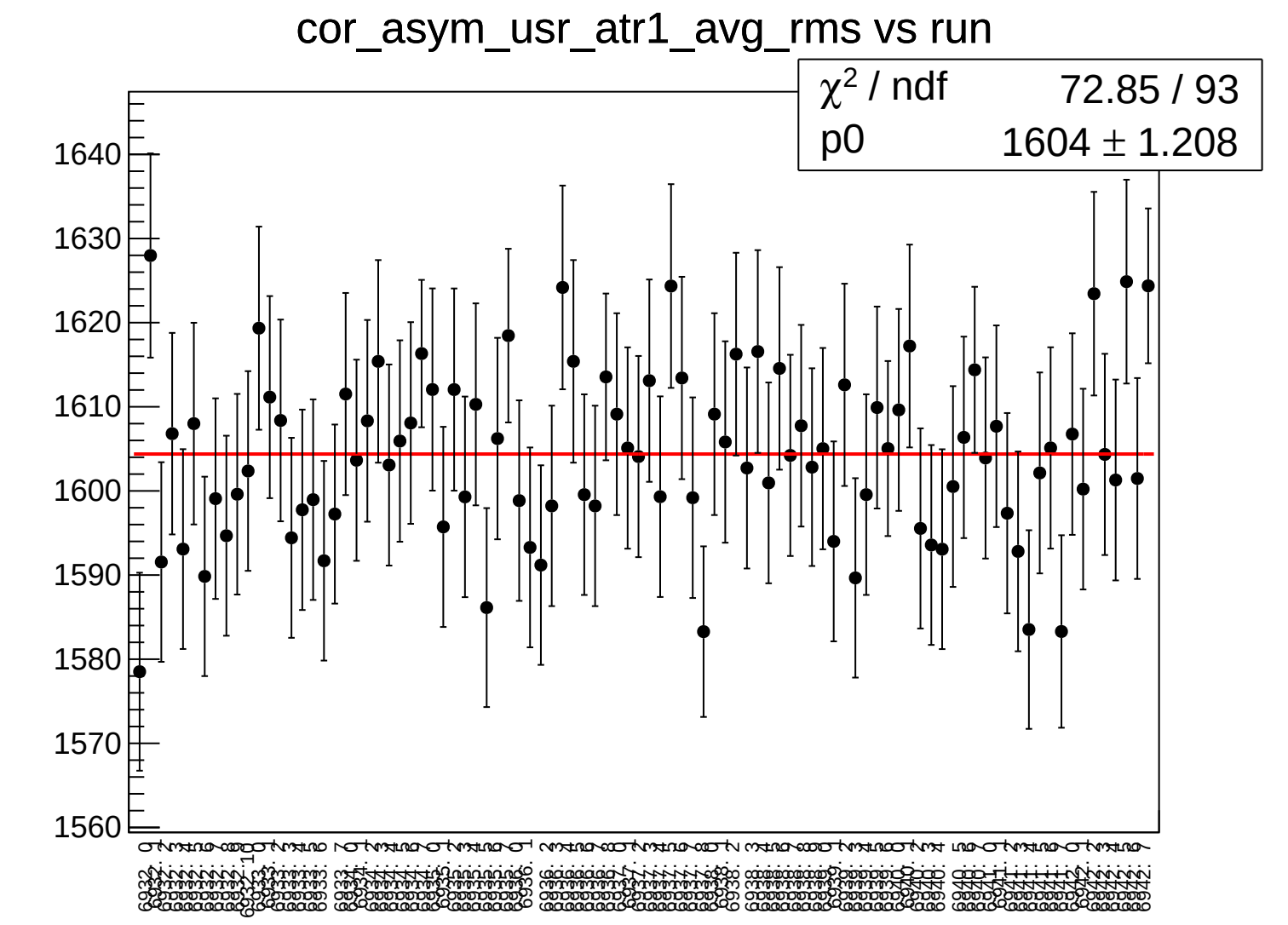

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 87.12 / 93
p0 1346 ± 1220
pull
Entries 94
Mean 401.3
Std Dev 0

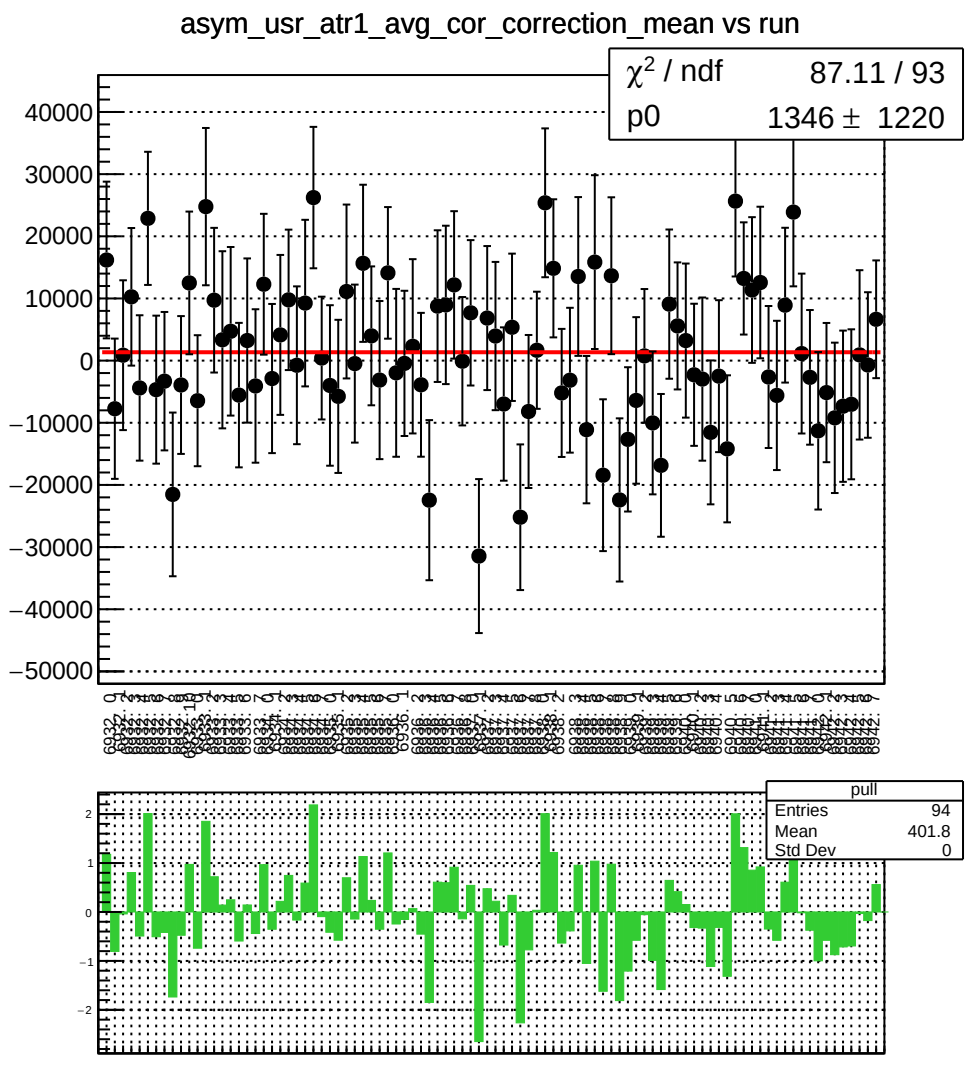

pull1D
Entries 94
Mean −0.008835
Std Dev 0.9627

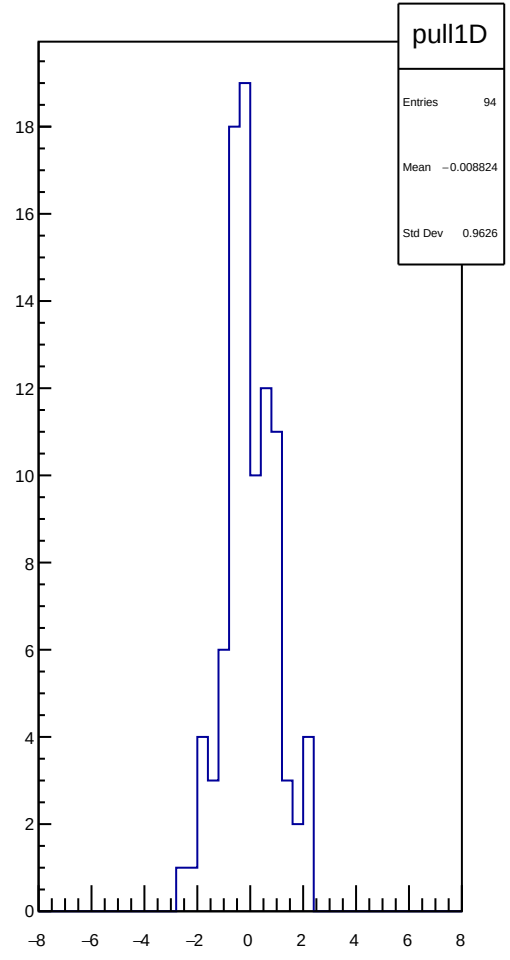

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 8414 / 93
p0 1143 ± 0.8627
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

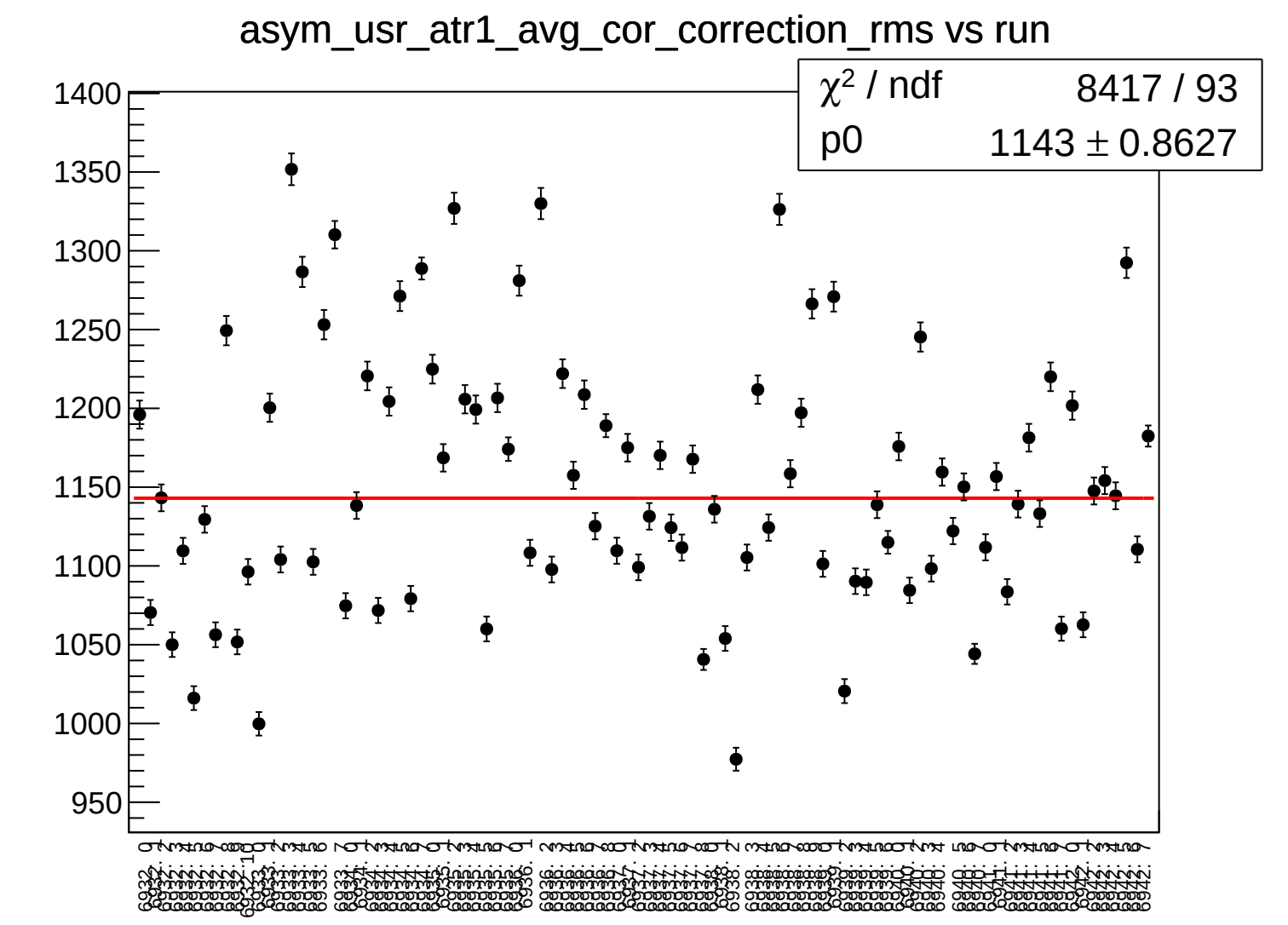

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 123.8 / 93
p0 −2418 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −708.4
Std Dev 0
3
2
1
0
−1
−2

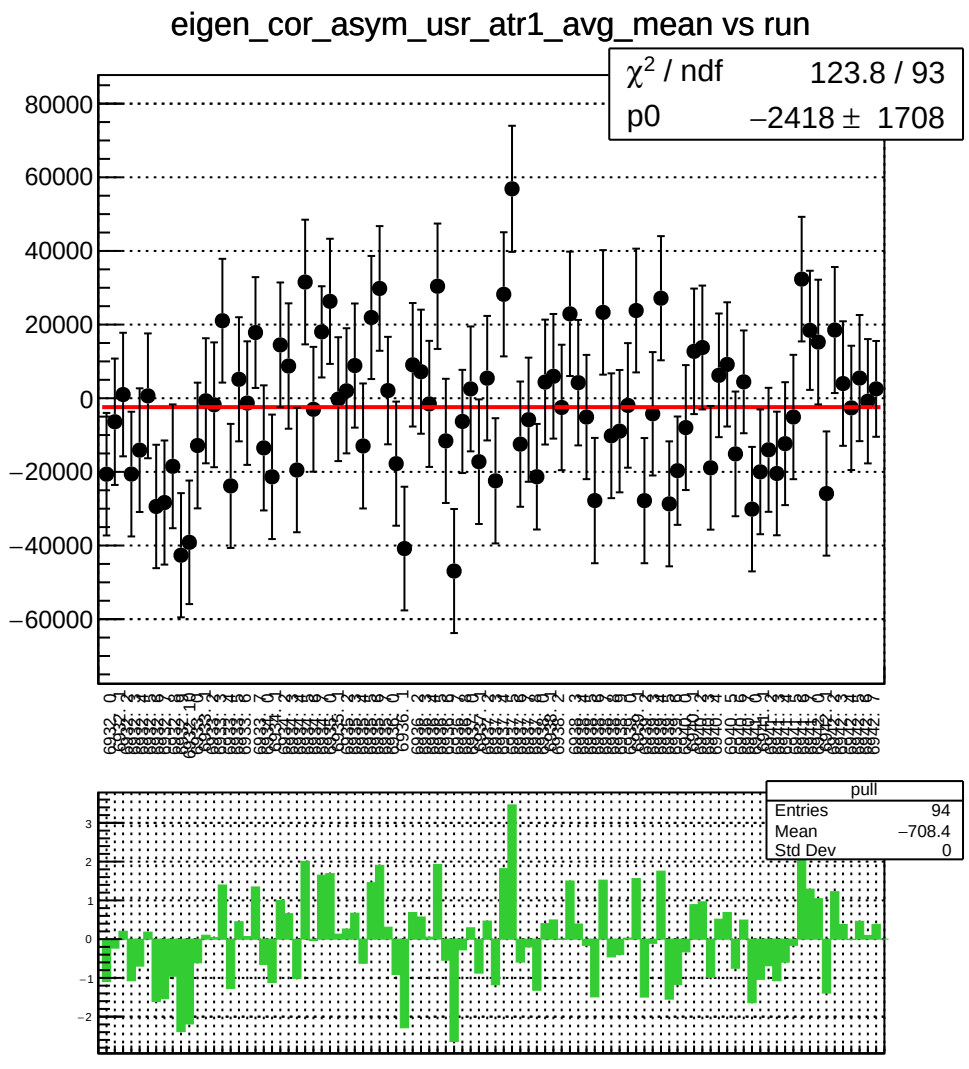

pull1D
Entries 94
Mean −0.005224
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

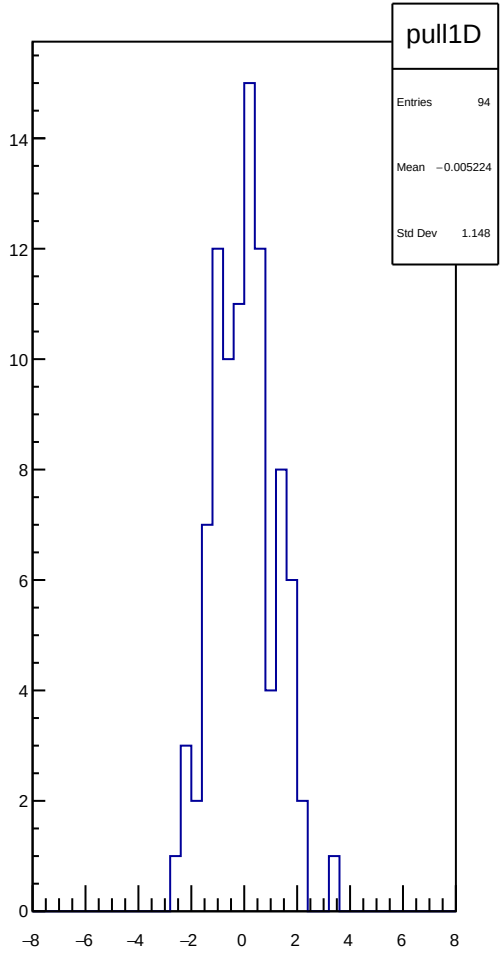

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 72.85 / 93
p0 1604 ± 1.208
1640
1630
1620
1610
1600
1590
1580
1570
1560

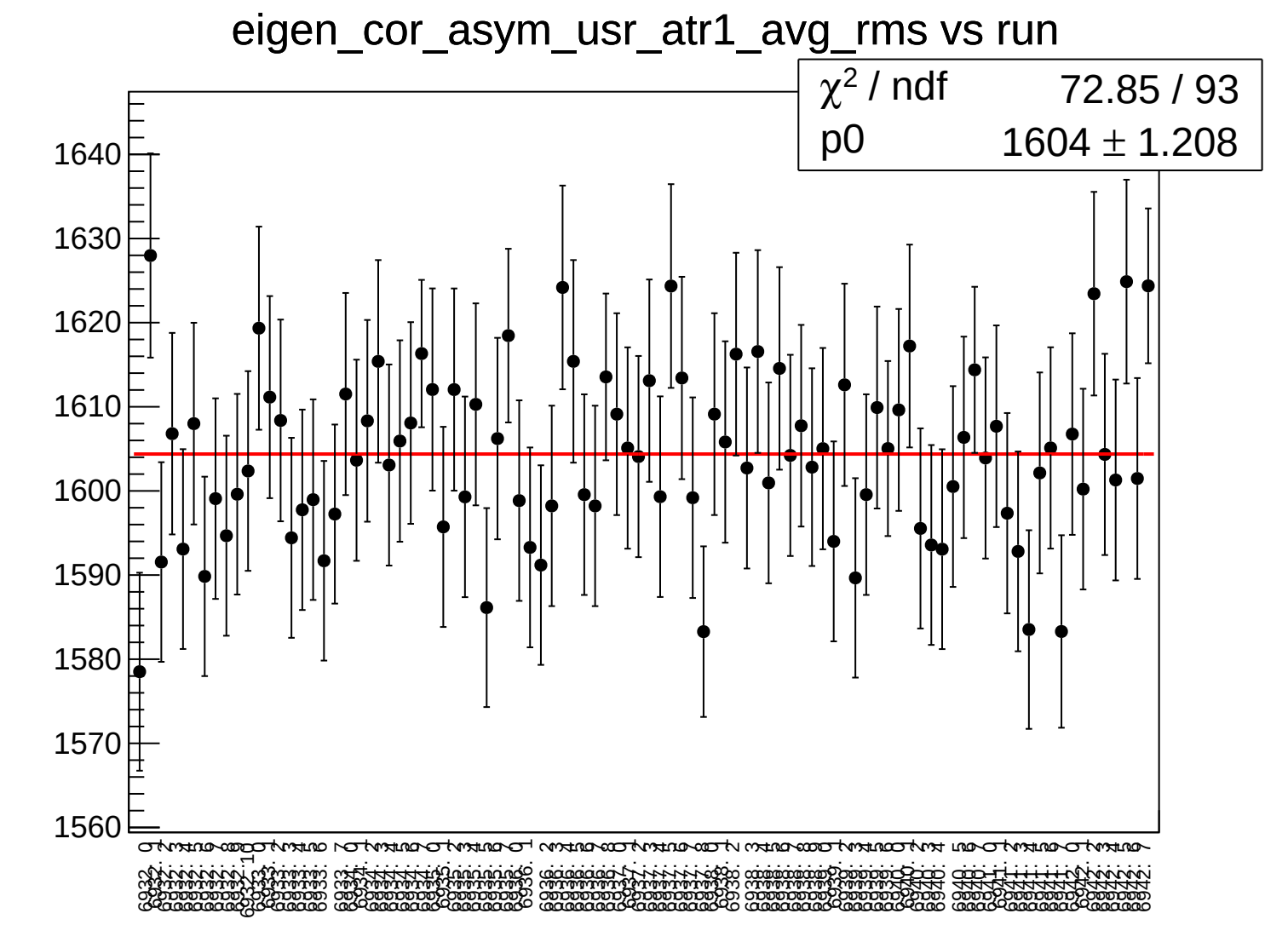

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 87.11 / 93
p0 1346 ± 1220
pull
Entries 94
Mean 401.8
Std Dev 0

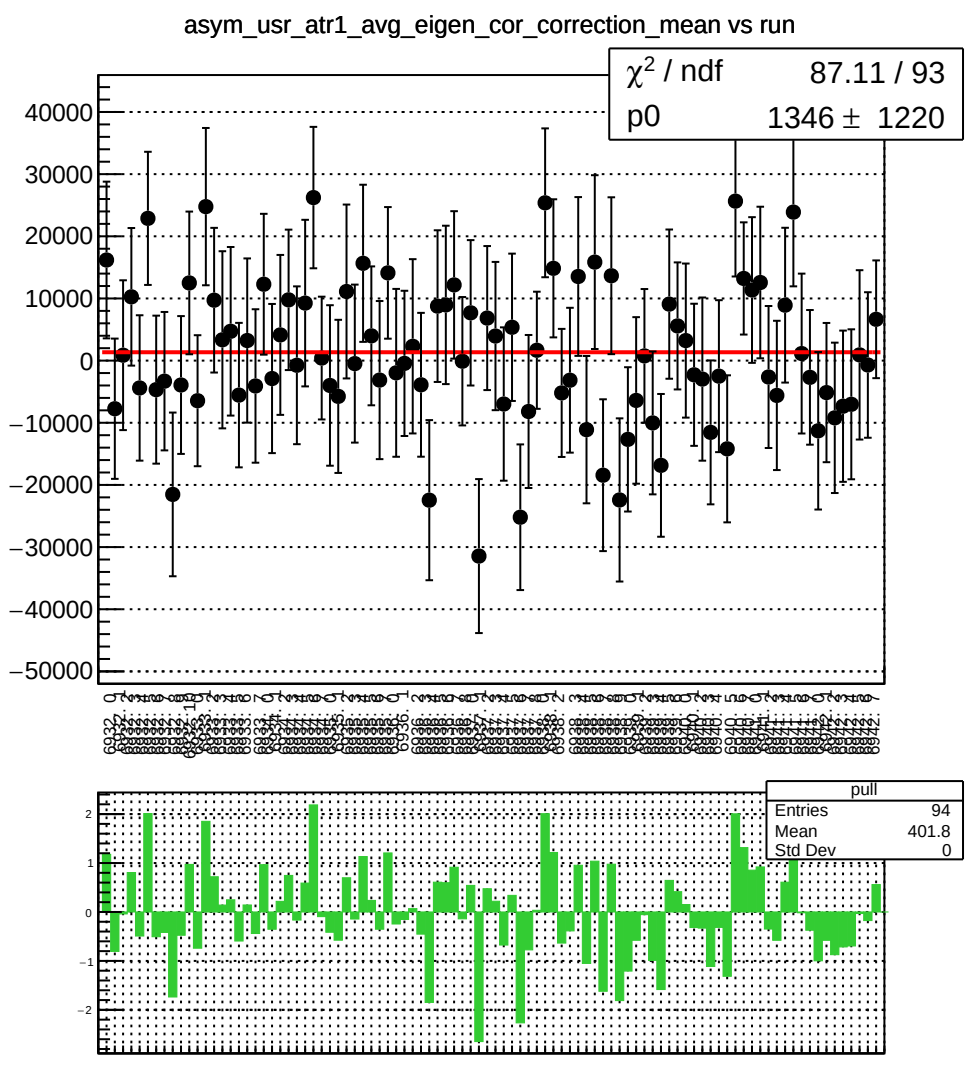

pull1D
Entries 94
Mean −0.008824
Std Dev 0.9626

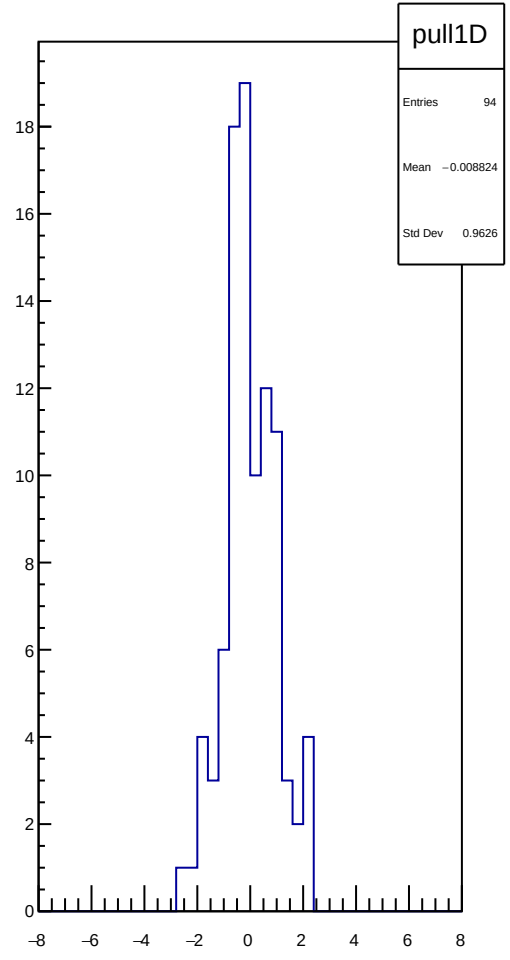

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 8417 / 93
p0 1143 ± 0.8627
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

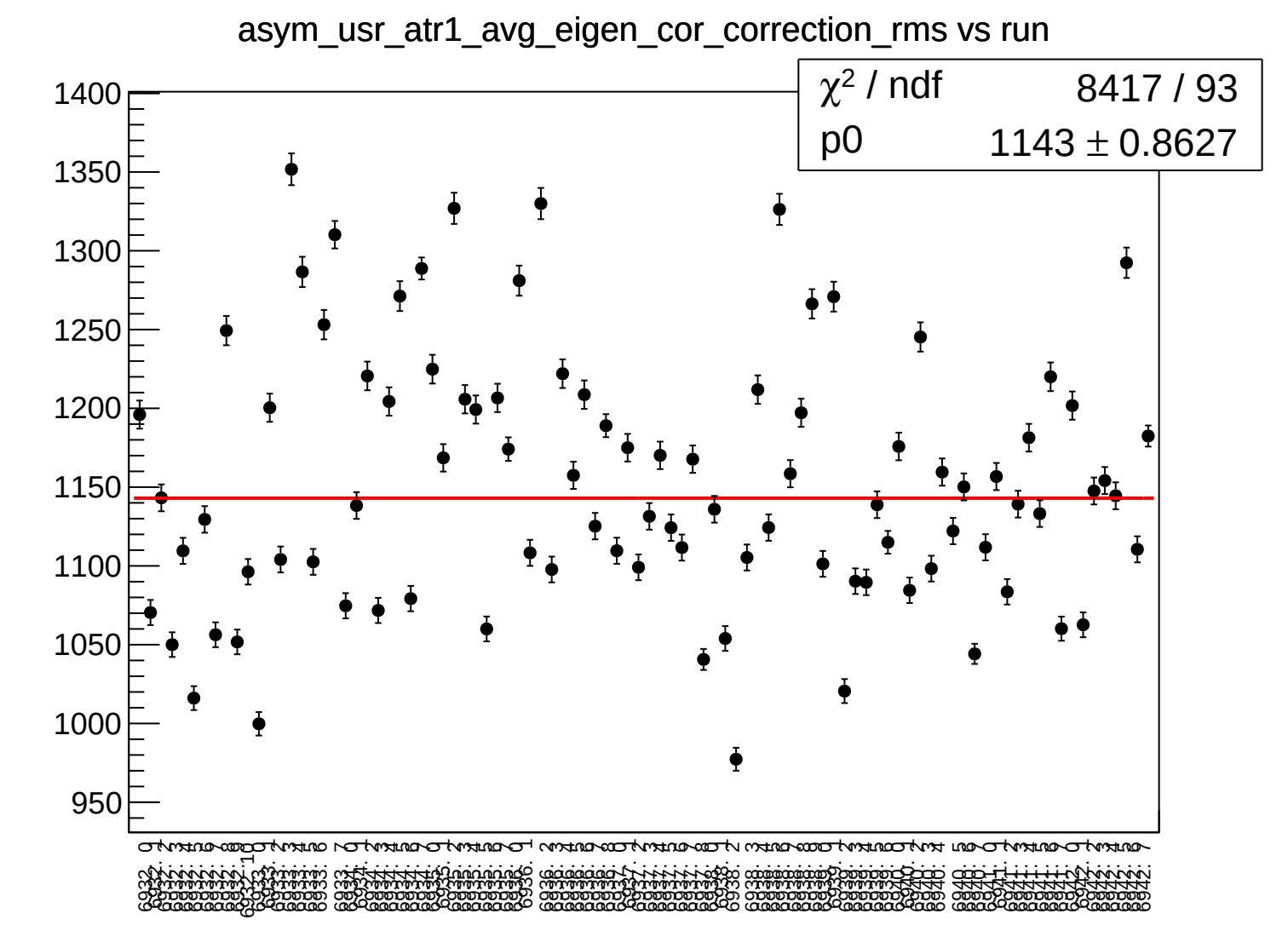

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 123.8 / 93
p0 −2418 ± 1708
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −708.4
Std Dev 0
3
2
1
0
−1
−2

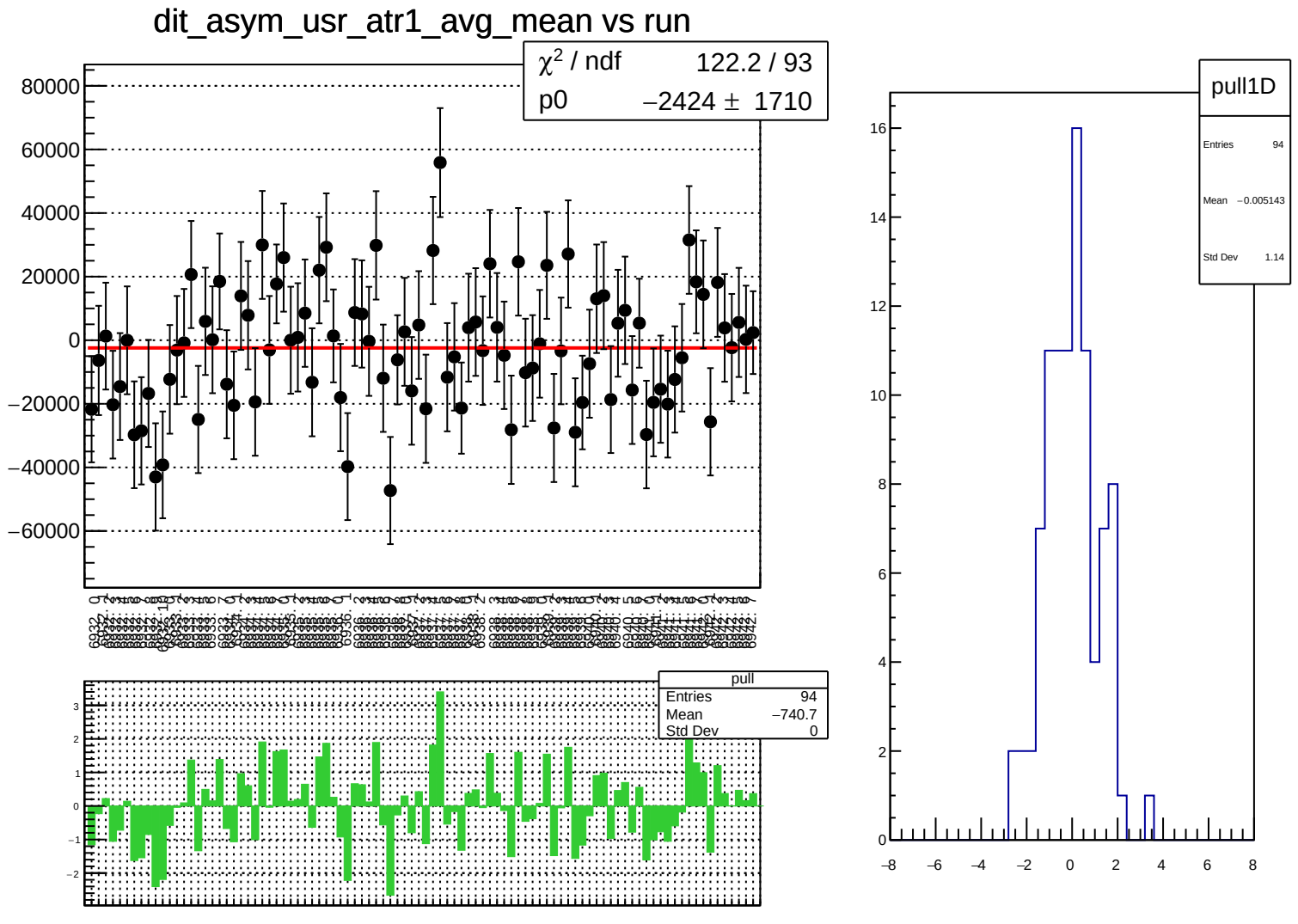

pull1D
Entries 94
Mean −0.005224
Std Dev 1.148
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

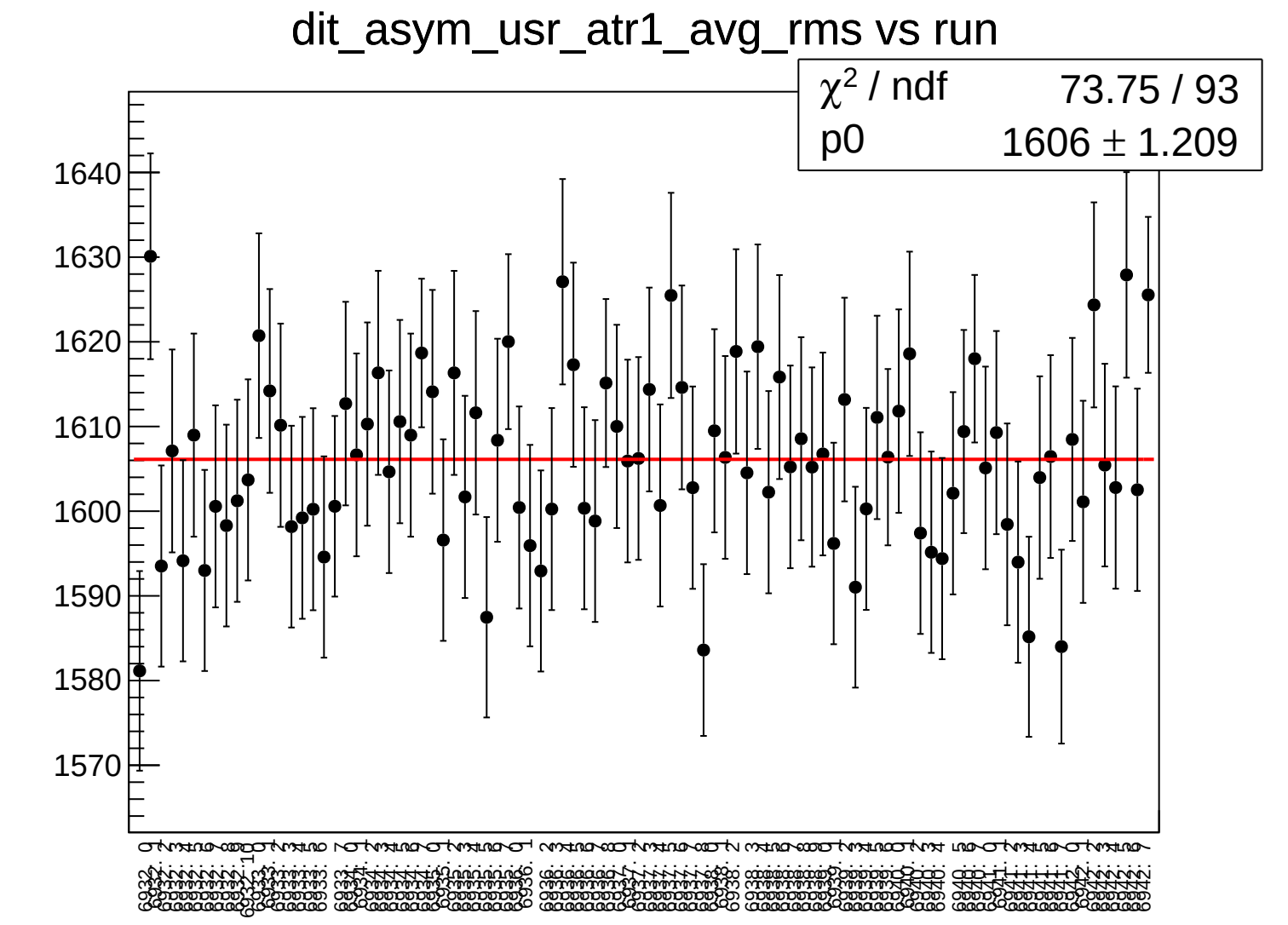

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 72.85 / 93
p0 1604 ± 1.208
1640
1630
1620
1610
1600
1590
1580
1570
1560

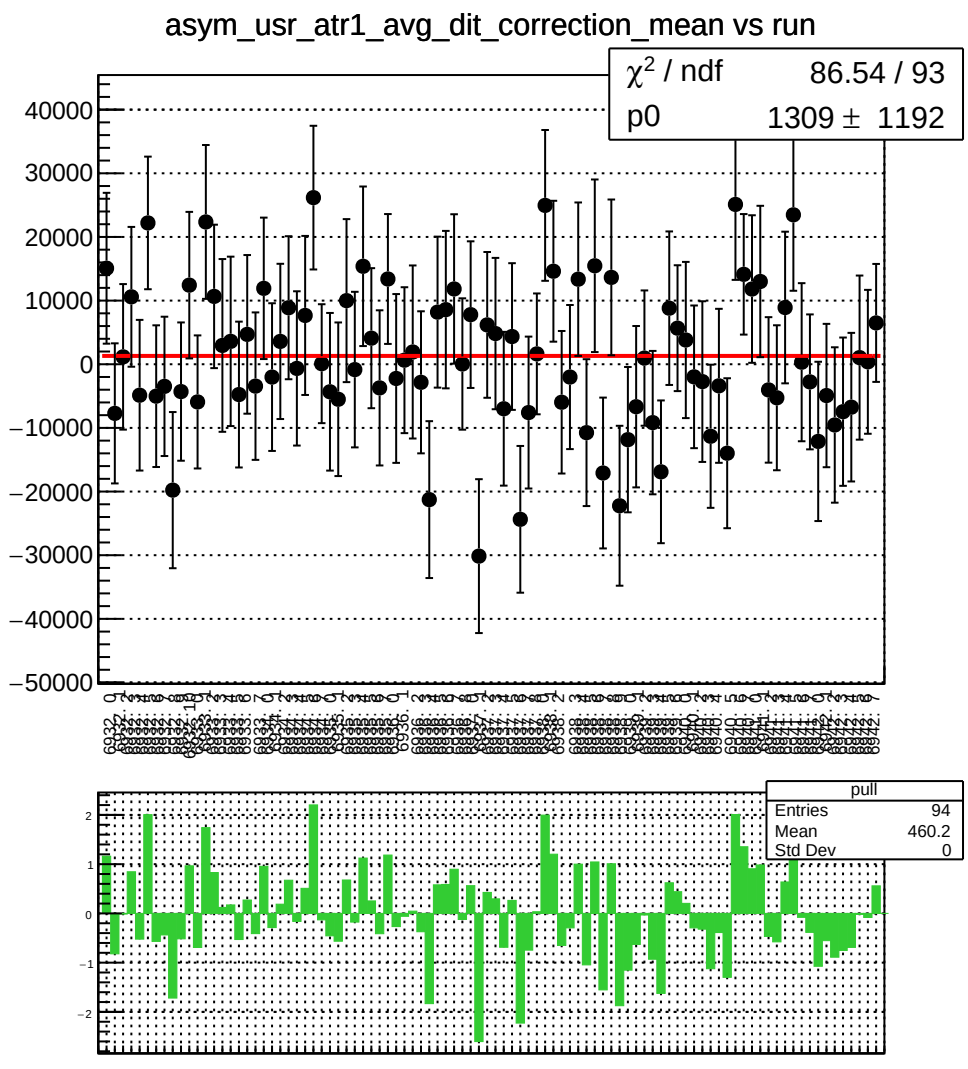

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.11 / 93
p0 1346 ± 1220
pull
Entries 94
Mean 401.8
Std Dev 0

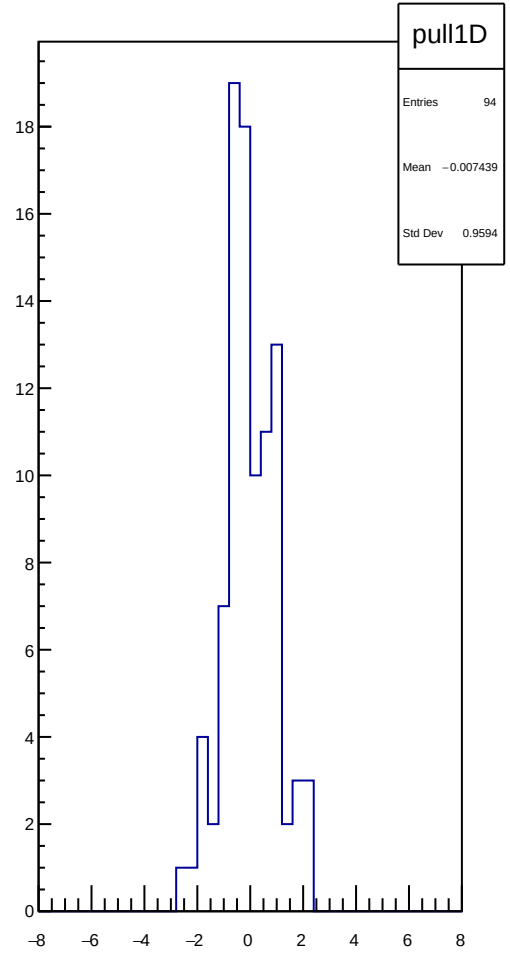

pull1D
Entries 94
Mean −0.008824
Std Dev 0.9626

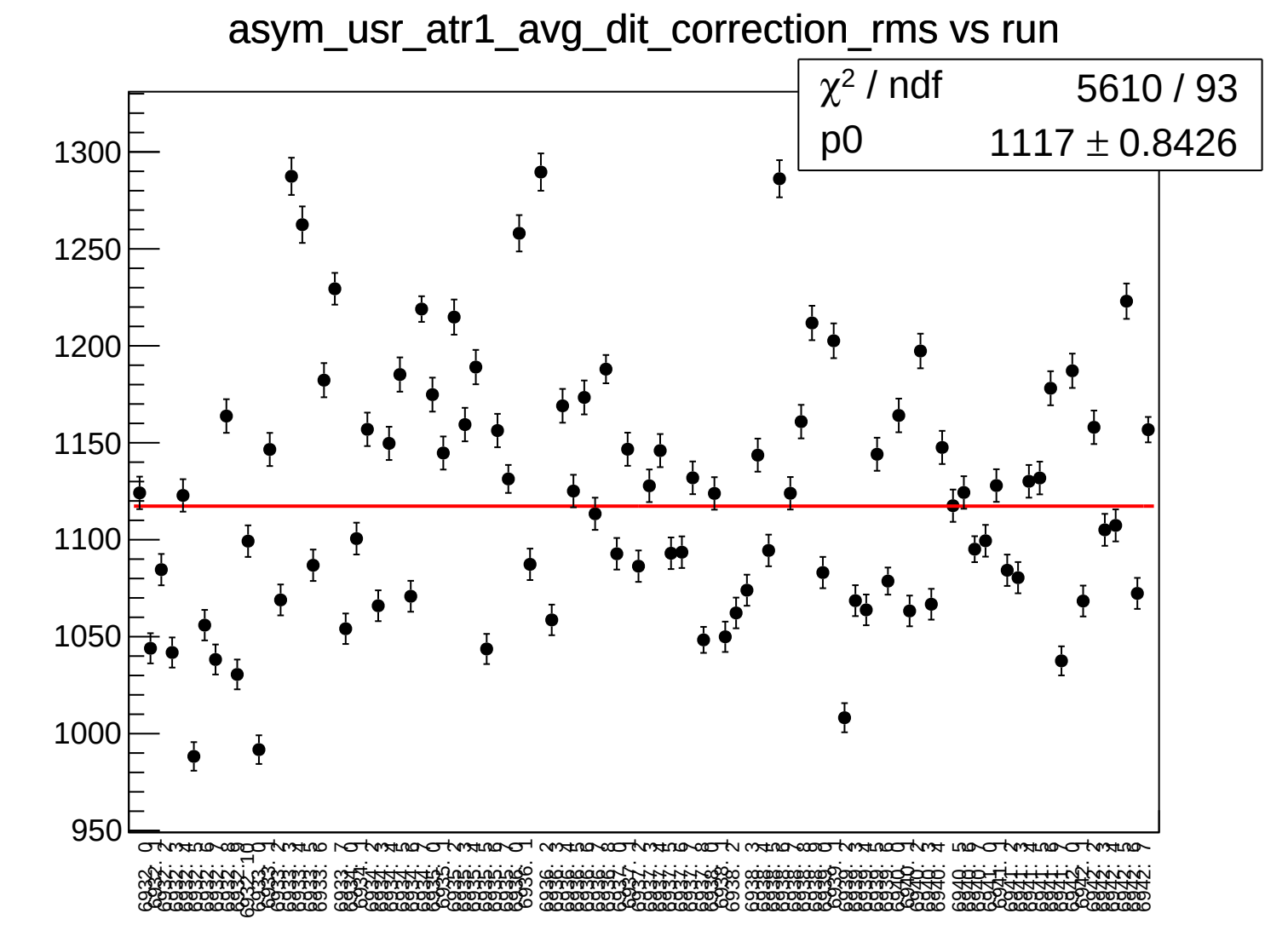

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 8417 / 93
p0 1143 ± 0.8627
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

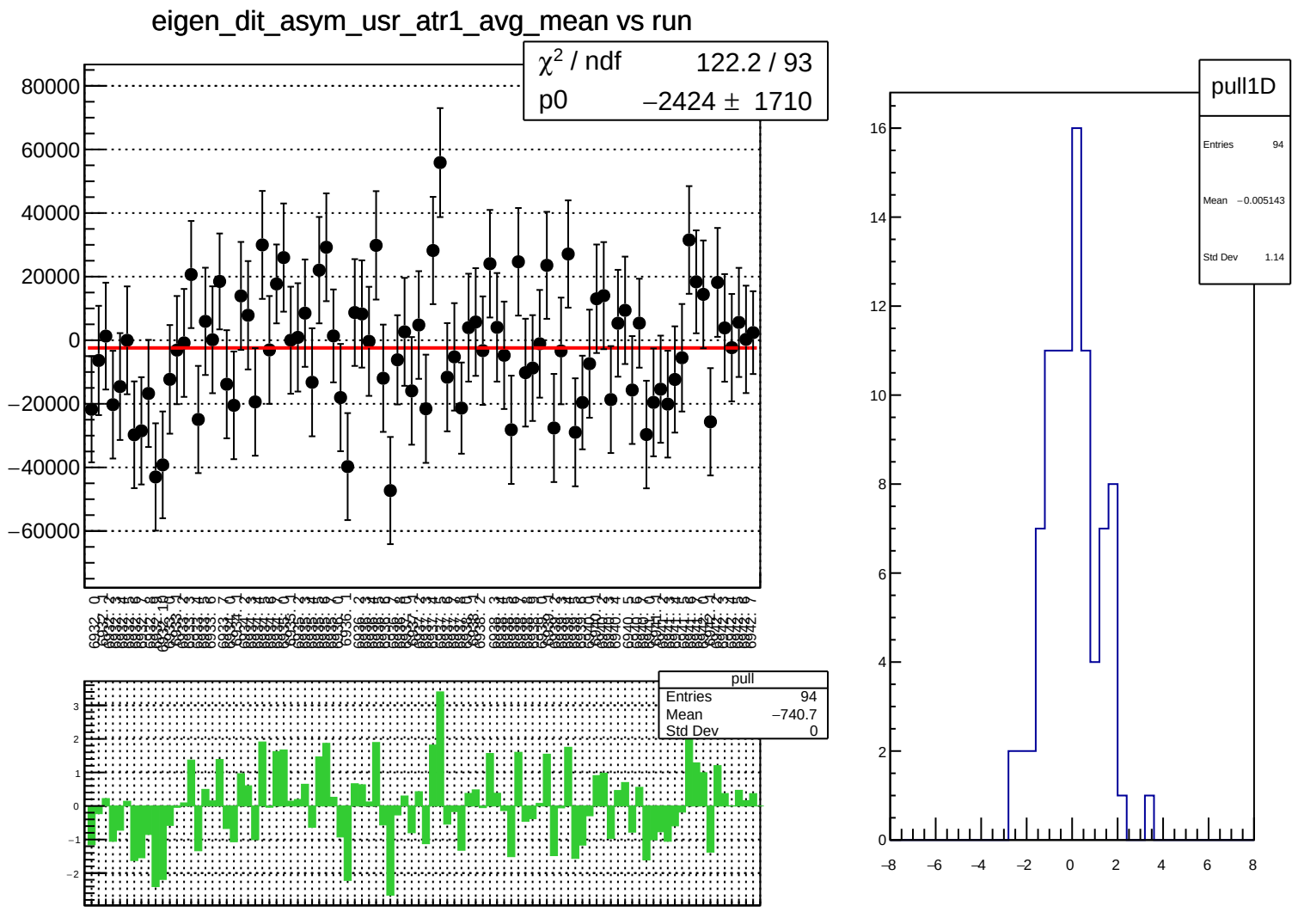

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 122.2 / 93
p0 −2424 ± 1710
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −740.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005143
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

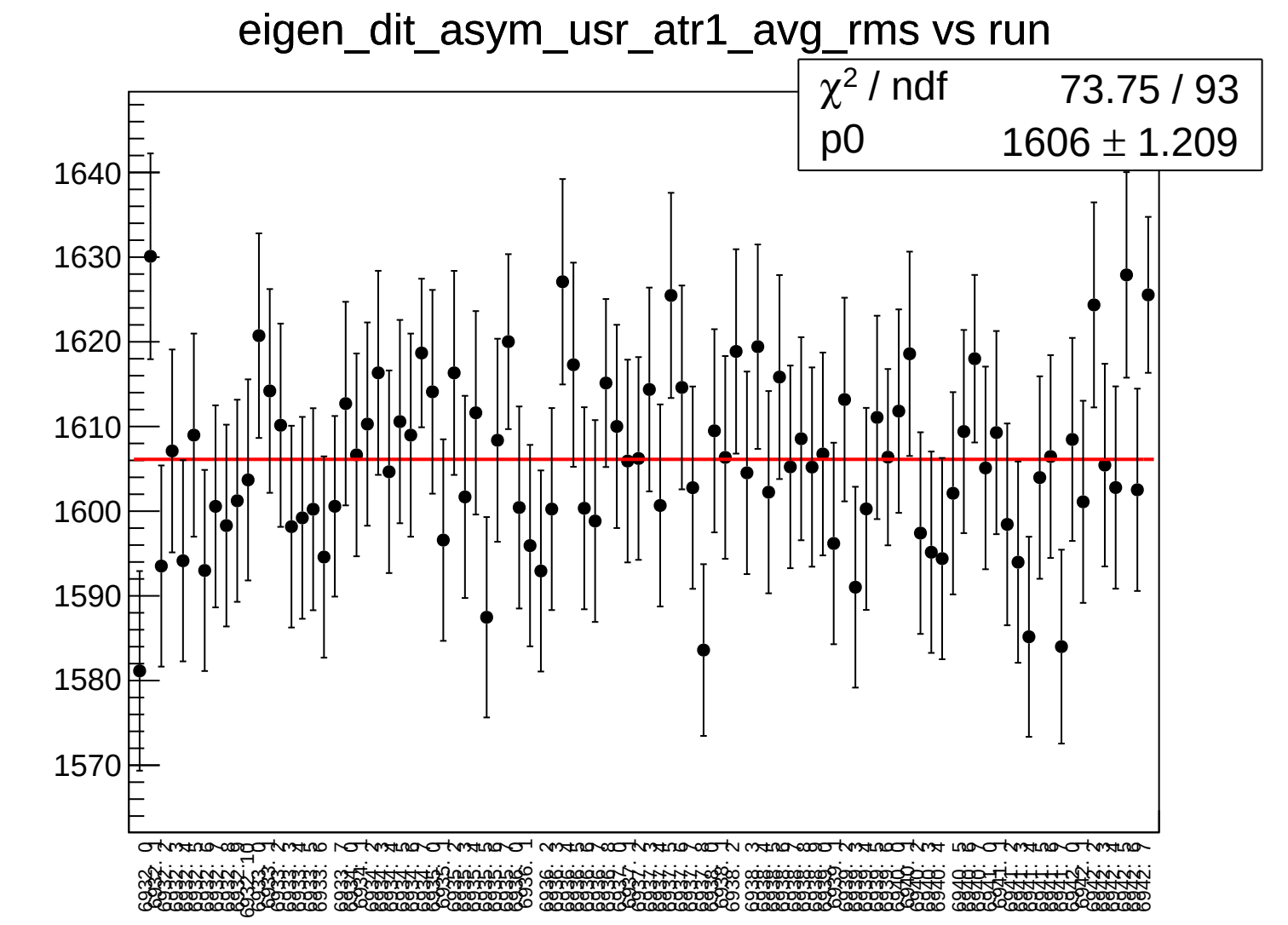

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 73.75 / 93
p0 1606 ± 1.209
1640
1630
1620
1610
1600
1590
1580
1570

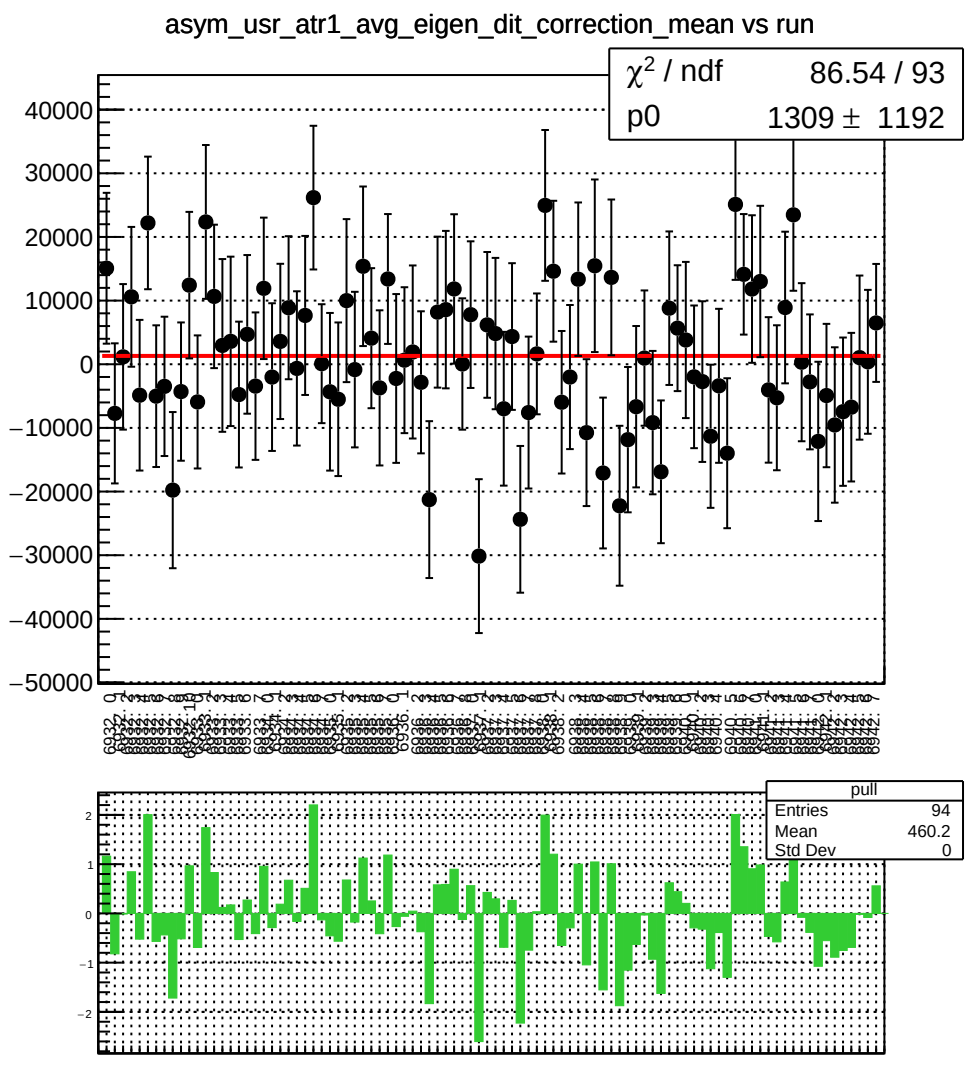

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 86.54 / 93
p0 1309 ± 1192
pull
Entries 94
Mean 460.2
Std Dev 0

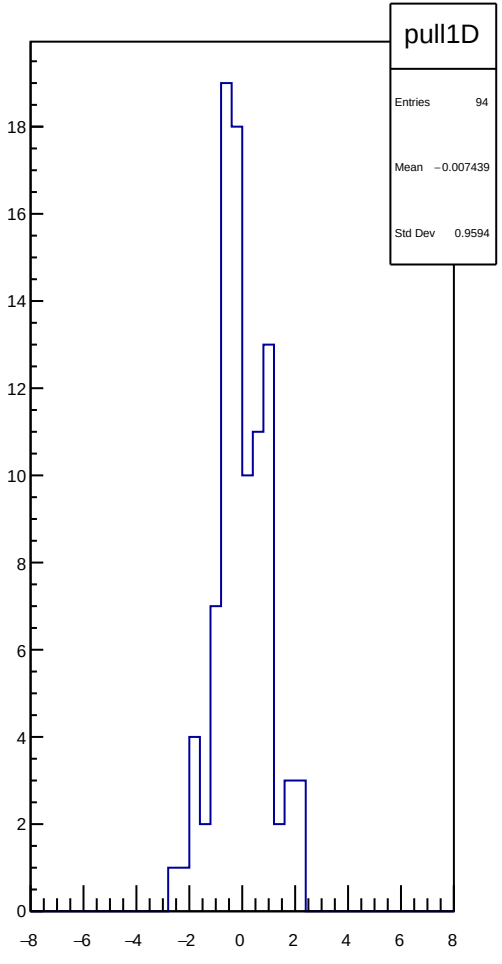

pull1D
Entries 94
Mean −0.007439
Std Dev 0.9594

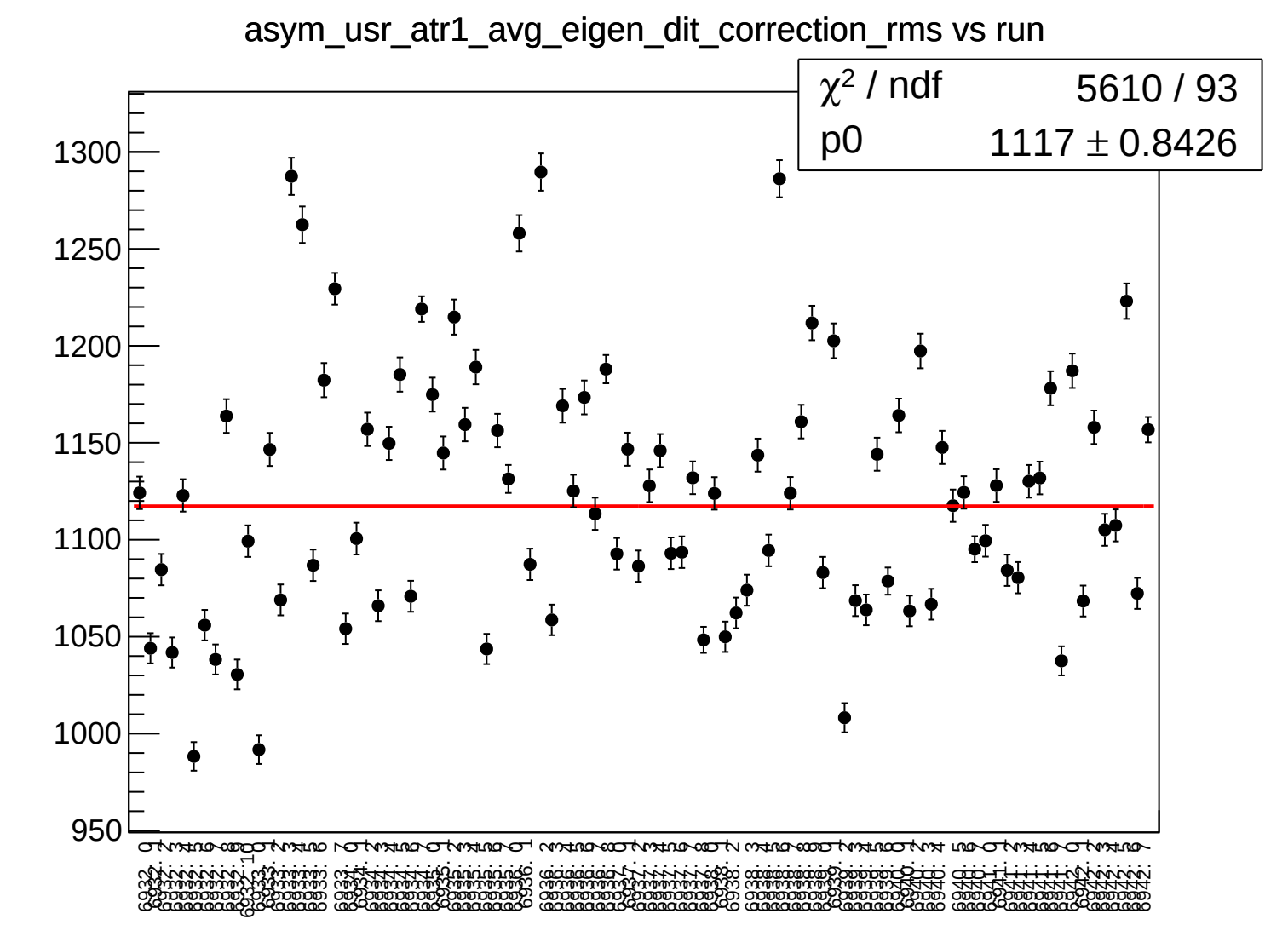

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5610 / 93
p0 1117 ± 0.8426
1300
1250
1200
1150
1100
1050
1000
950

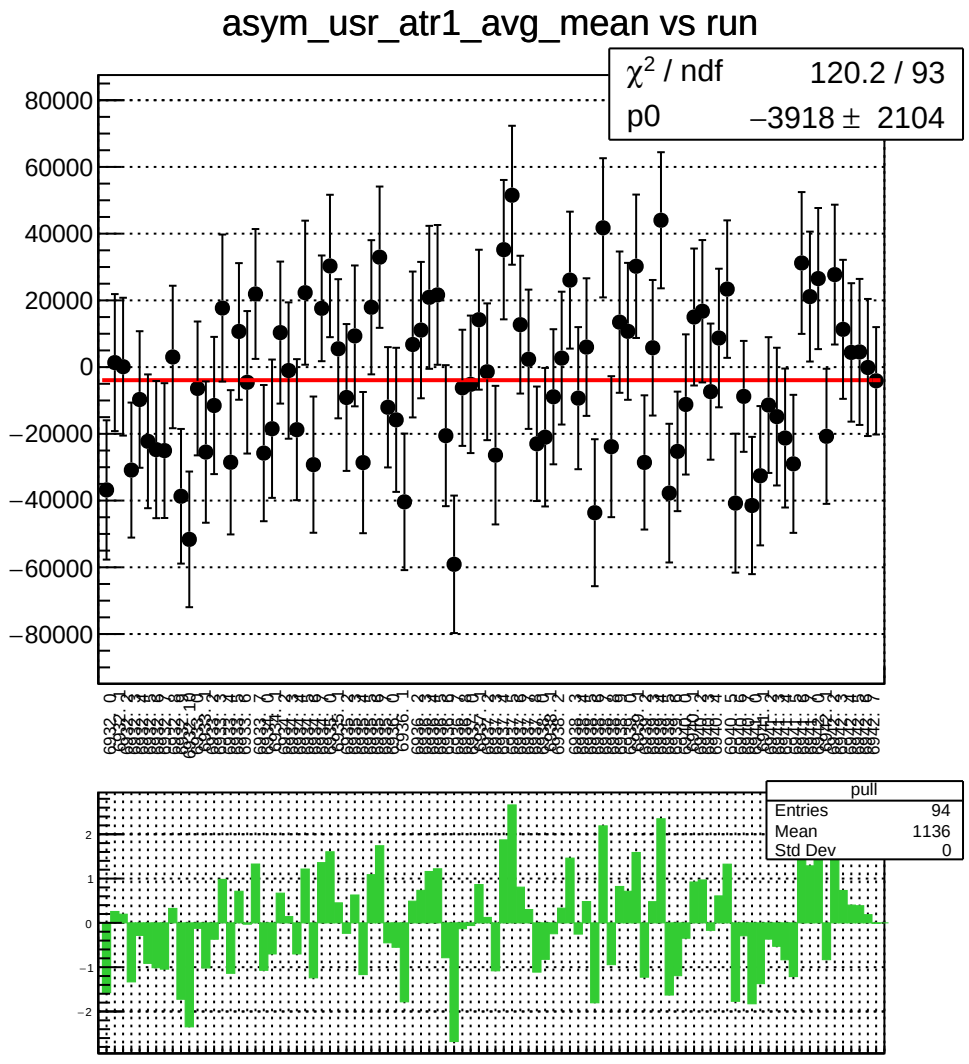

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 122.2 / 93
p0 −2424 ± 1710
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −740.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005143
Std Dev 1.14
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

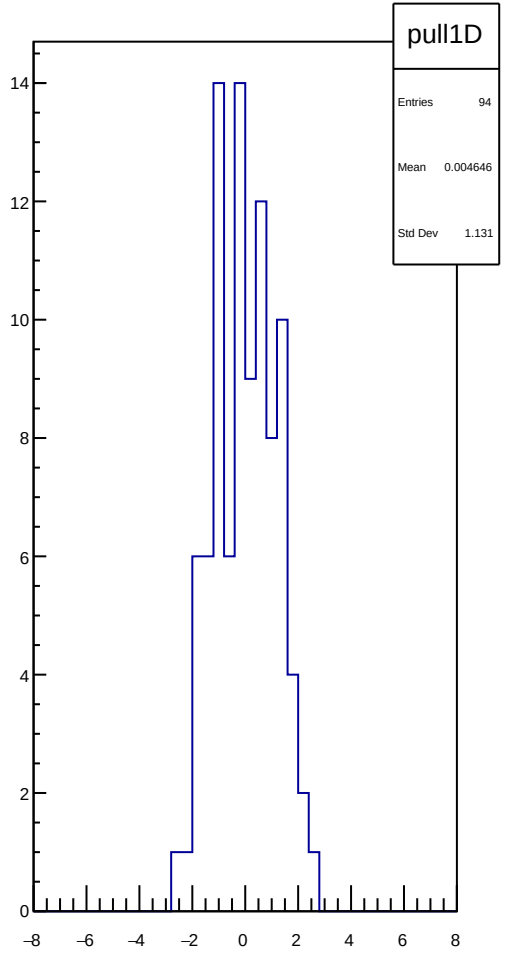

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 73.75 / 93
p0 1606 ± 1.209
1640
1630
1620
1610
1600
1590
1580
1570

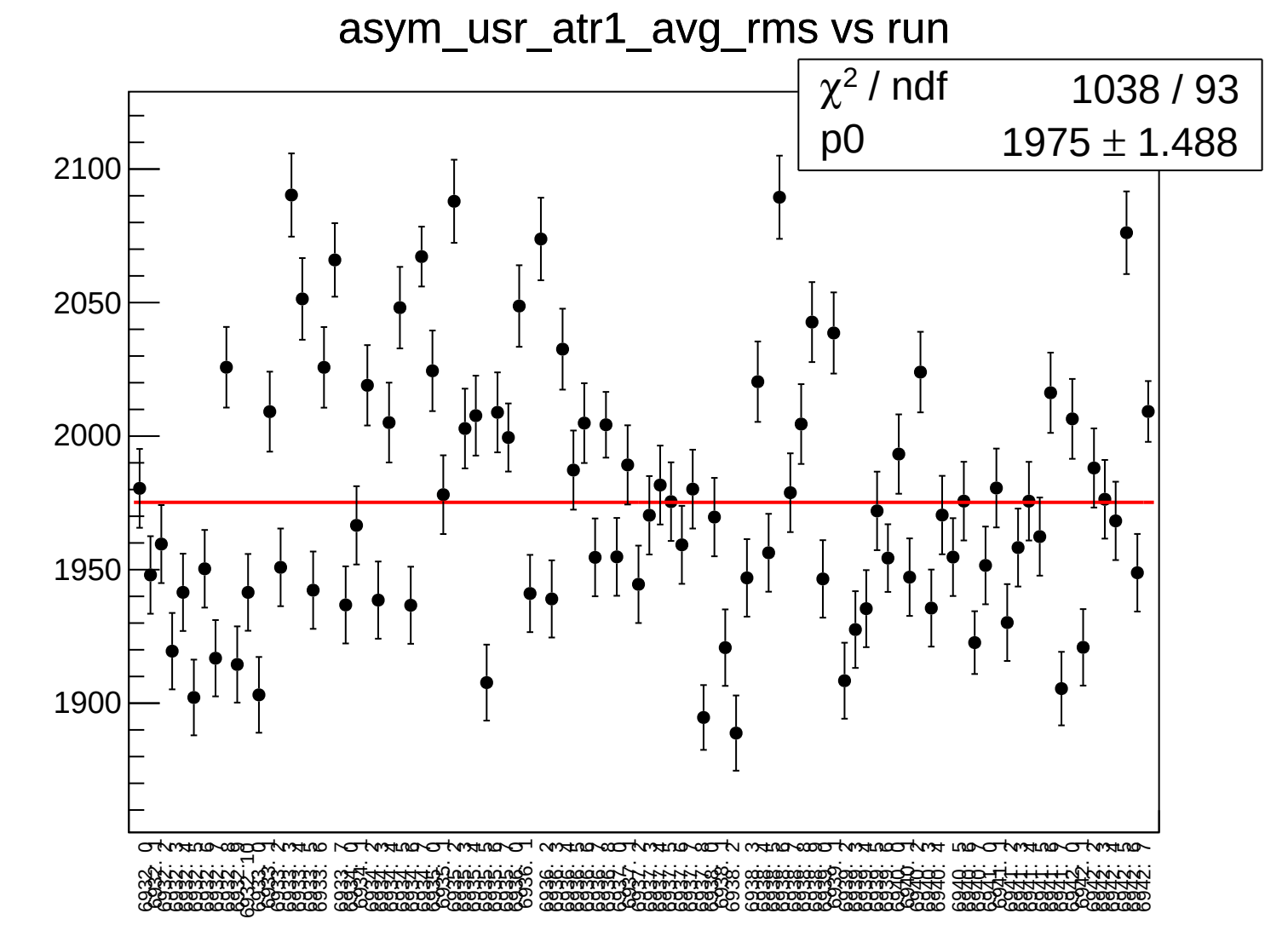

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.54 / 93
p0 1309 ± 1192
pull
Entries 94
Mean 460.2
Std Dev 0

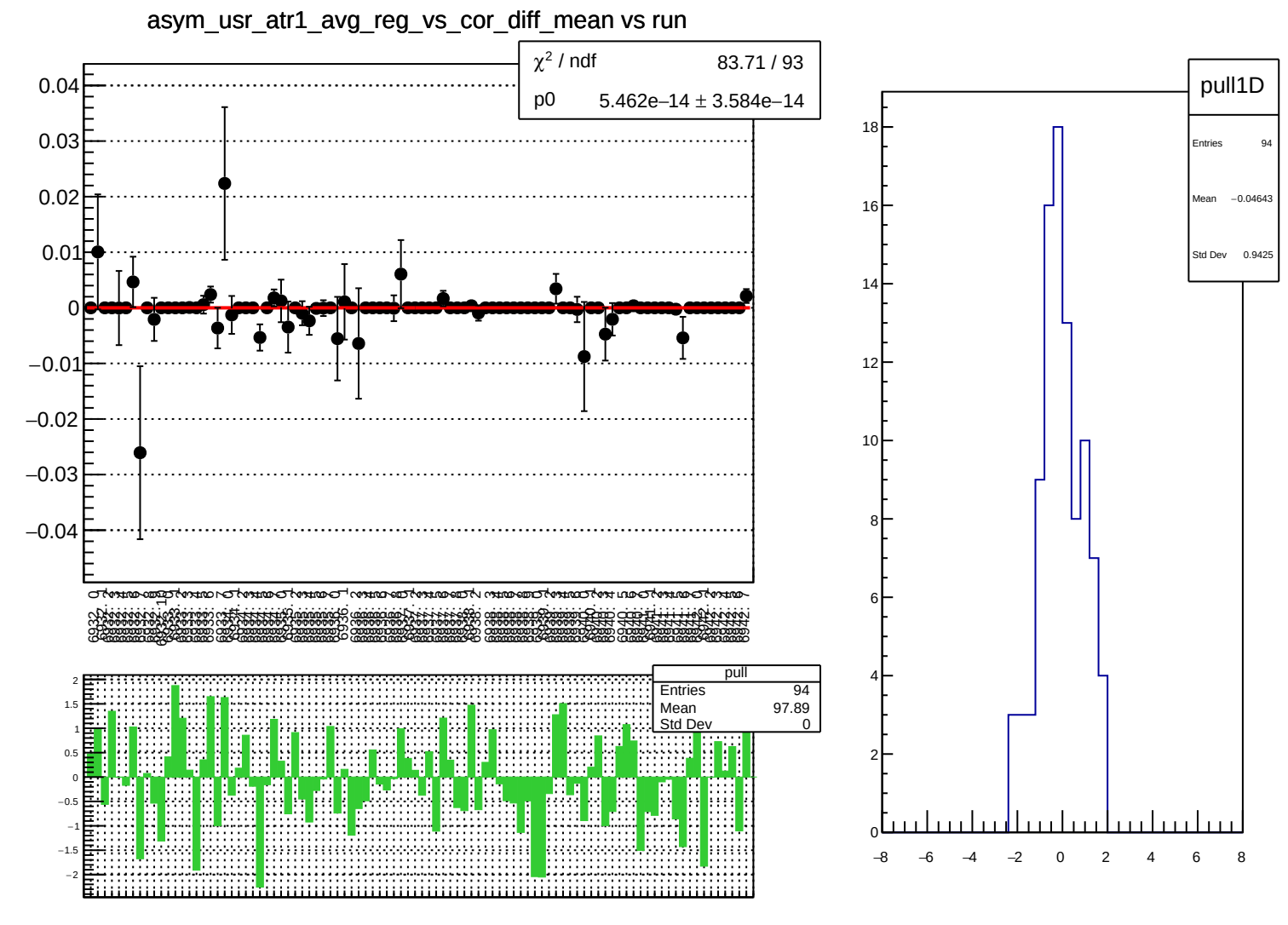

pull1D
Entries 94
Mean −0.007439
Std Dev 0.9594

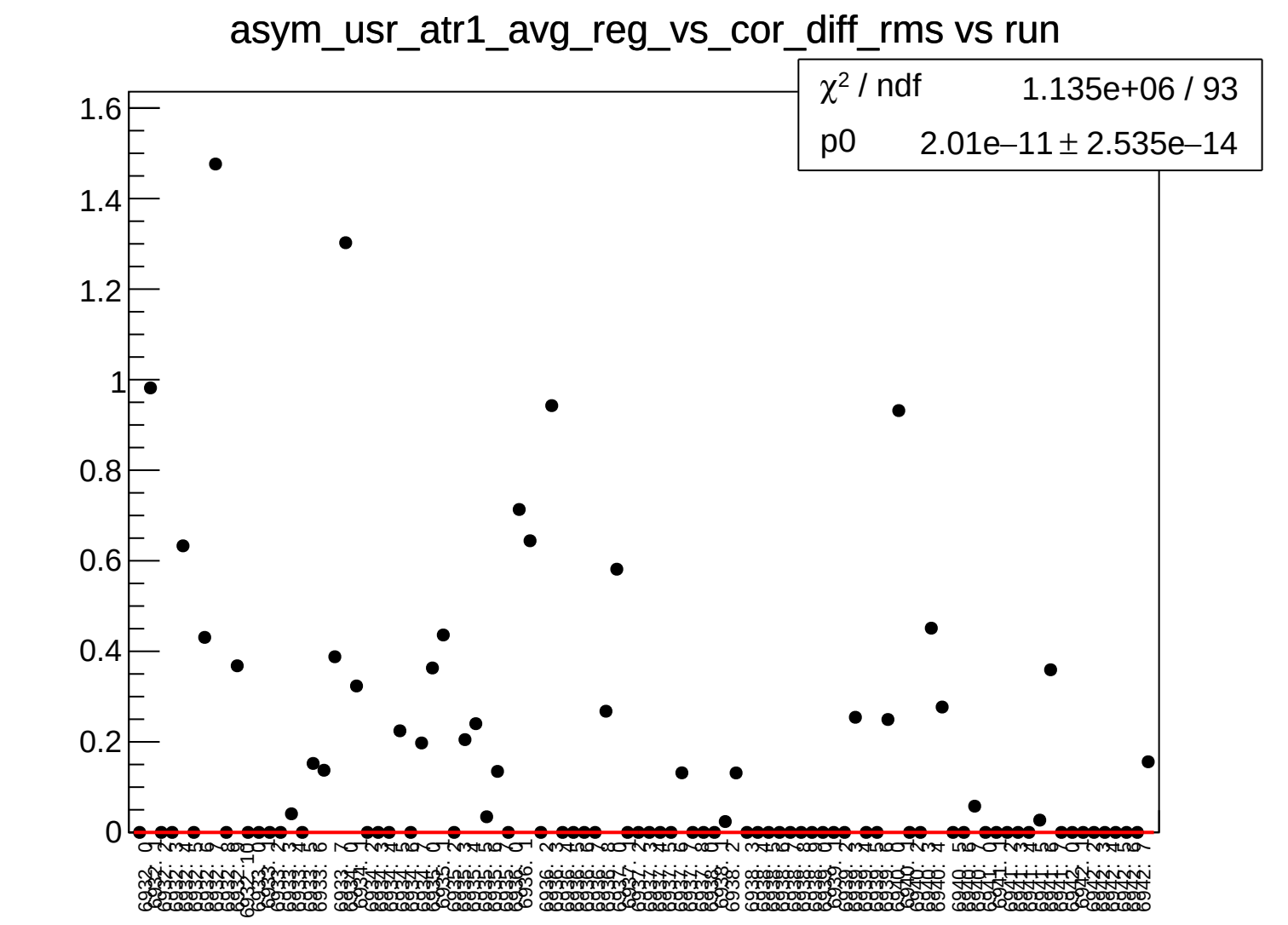

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5610 / 93
p0 1117 ± 0.8426
1300
1250
1200
1150
1100
1050
1000
950

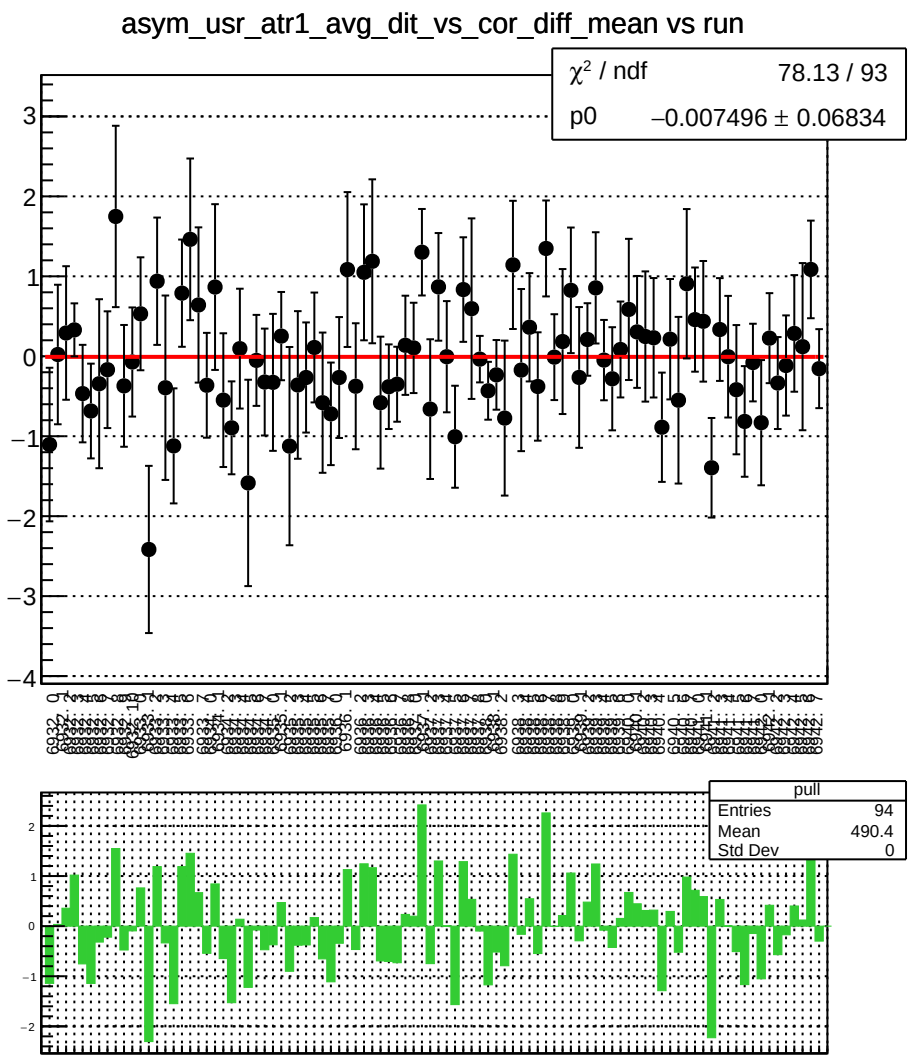

asym_usr_atr1_avg_mean vs run
χ² / ndf 120.2 / 93
p0 −3918 ± 2104
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1136
Std Dev 0
2
1
0
−1
−2

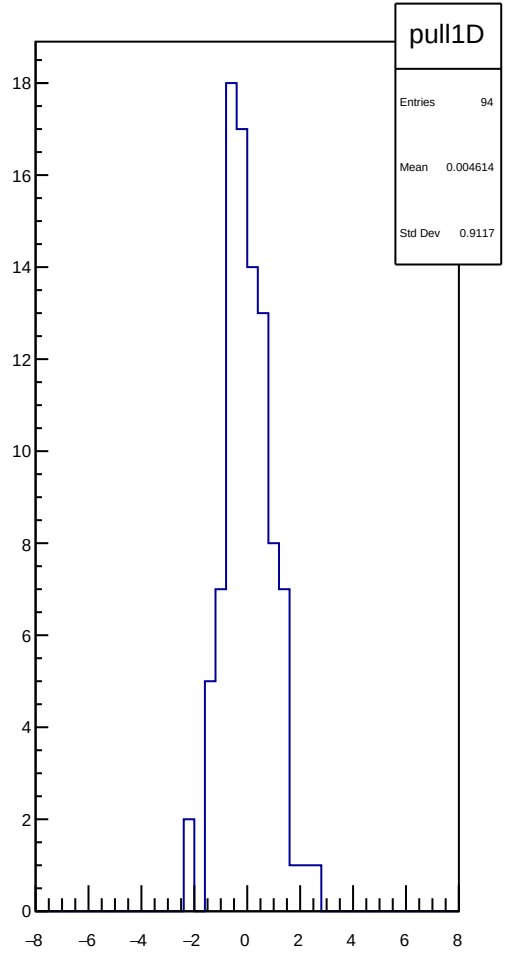

pull1D
Entries 94
Mean 0.004646
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

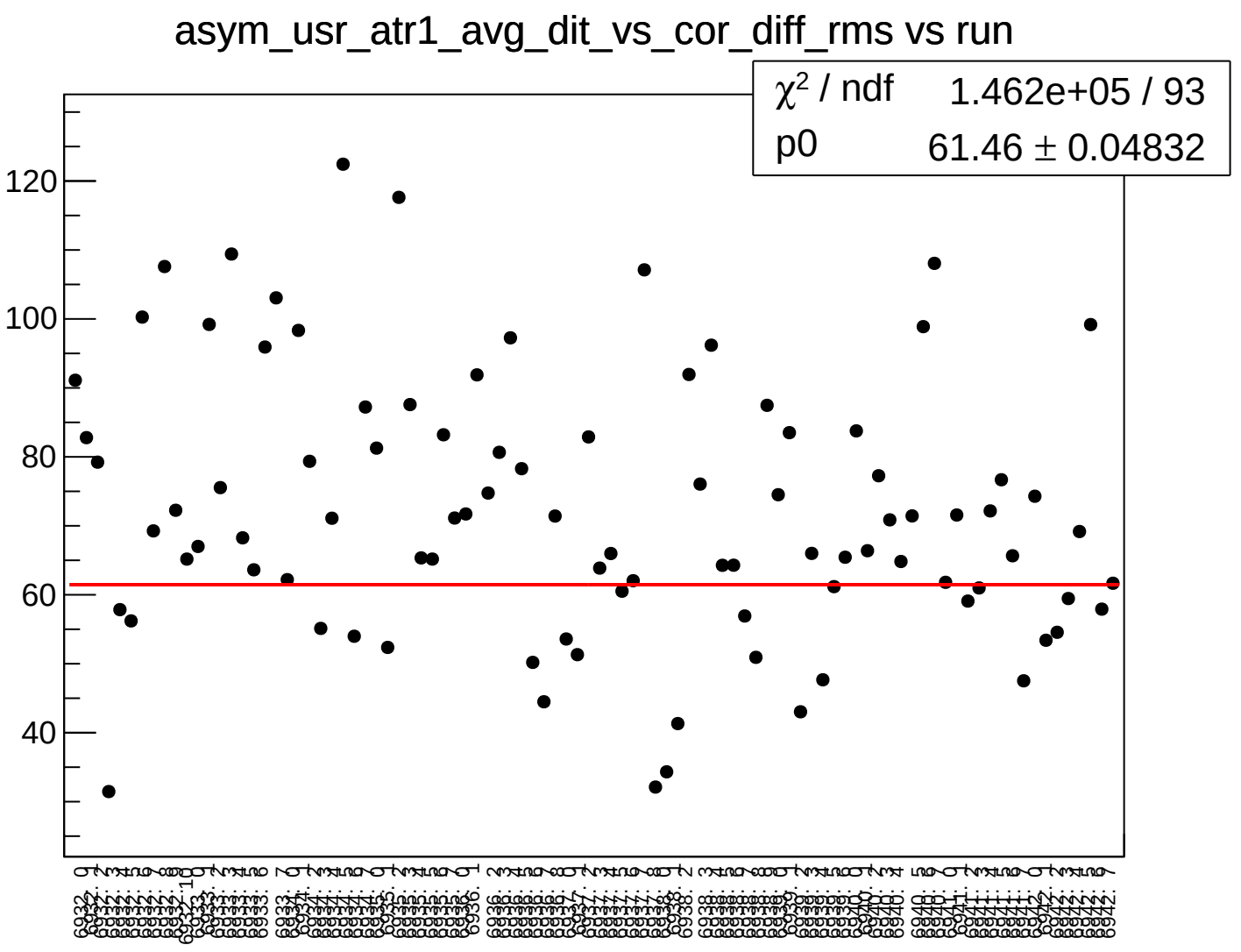

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 1038 / 93
p0 1975 ± 1.488
2100
2050
2000
1950
1900

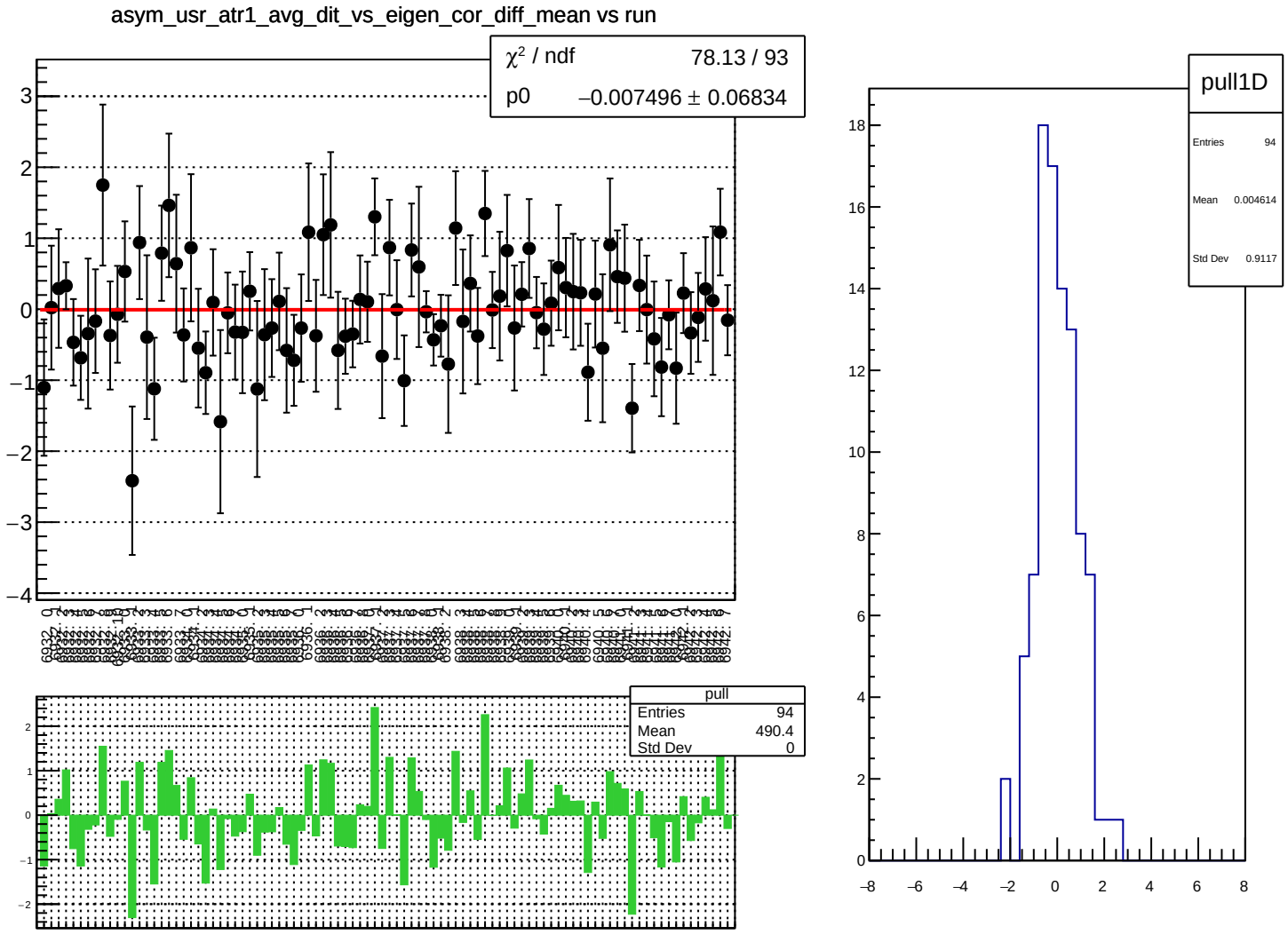

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.71 / 93
p0 5.462e−14 ± 3.584e−14
pull
Entries 94
Mean 97.89
Std Dev 0
pull1D
Entries 94
Mean −0.04643
Std Dev 0.9425

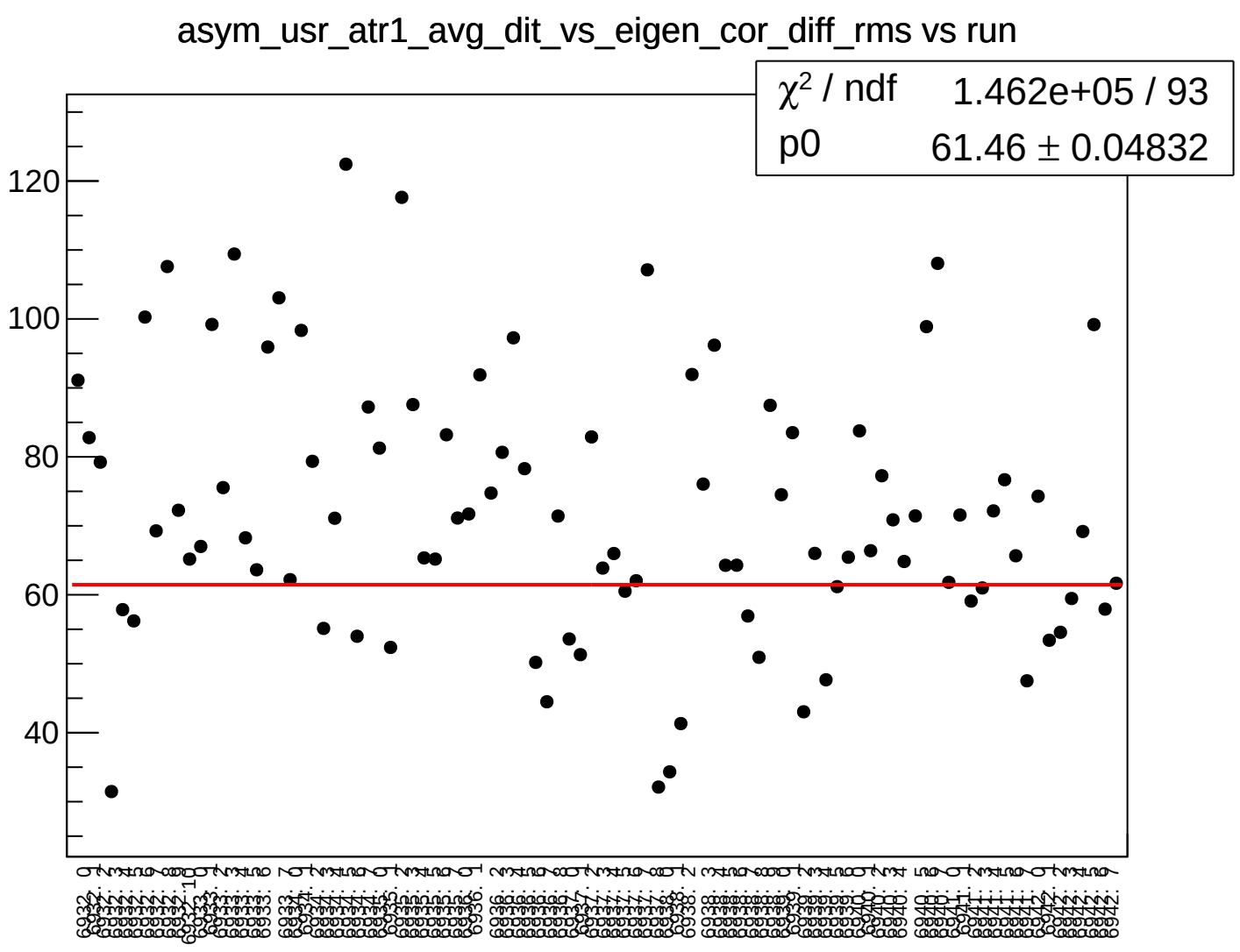

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.135e+06 / 93
p0 2.01e−11 ± 2.535e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

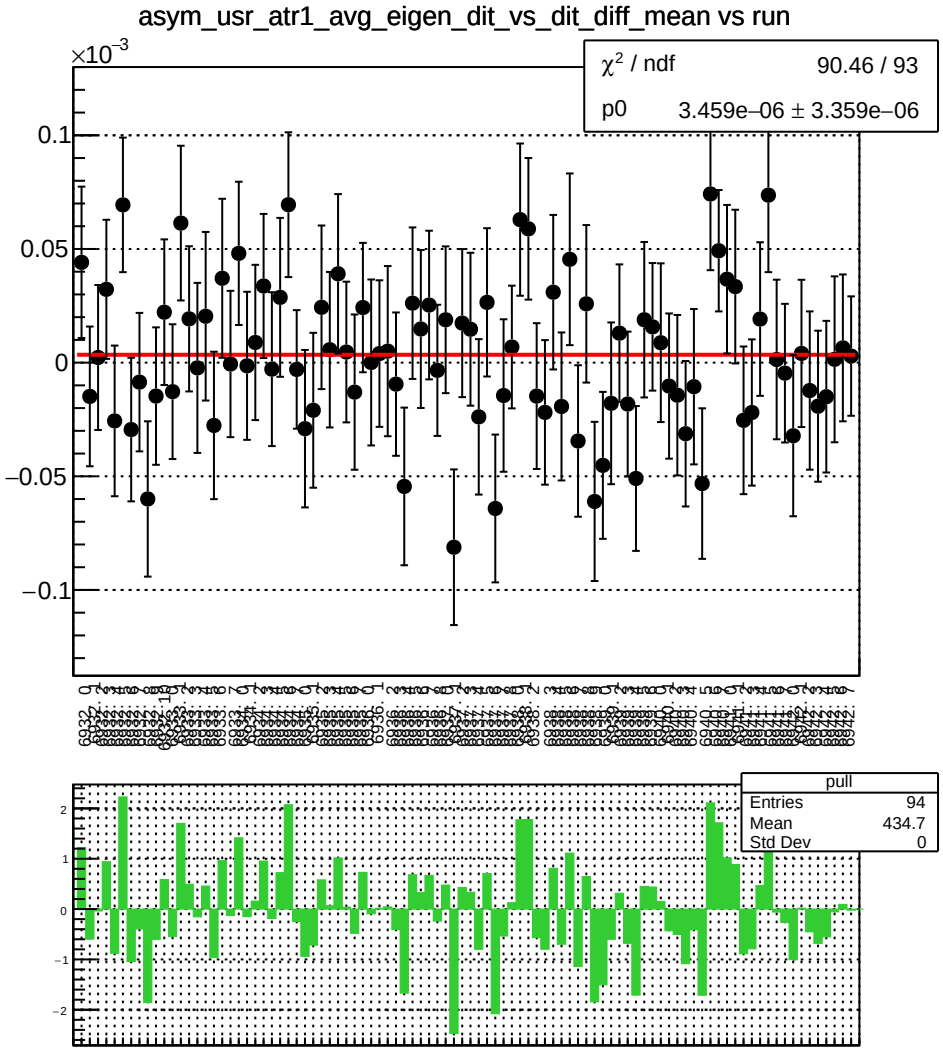

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.13 / 93
p0 −0.007496 ± 0.06834
pull
Entries 94
Mean 490.4
Std Dev 0

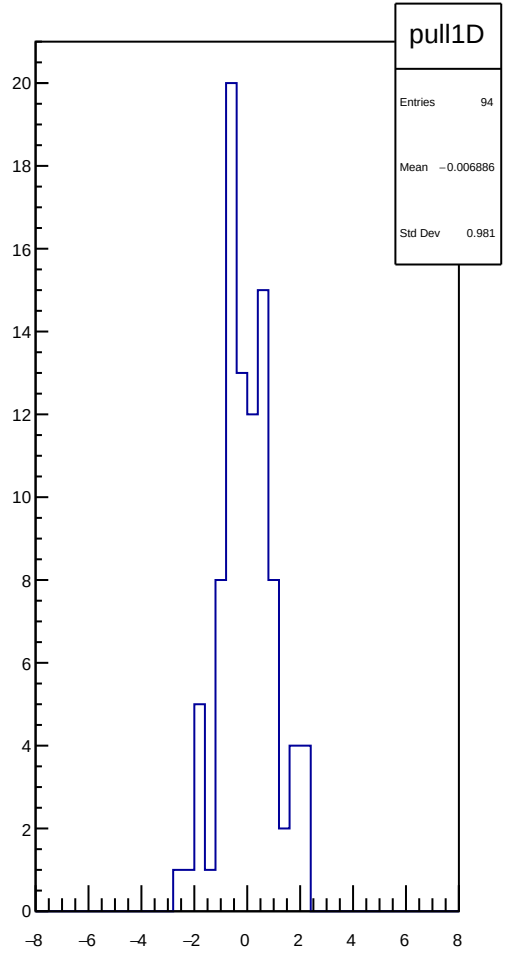

pull1D
Entries 94
Mean 0.004614
Std Dev 0.9117

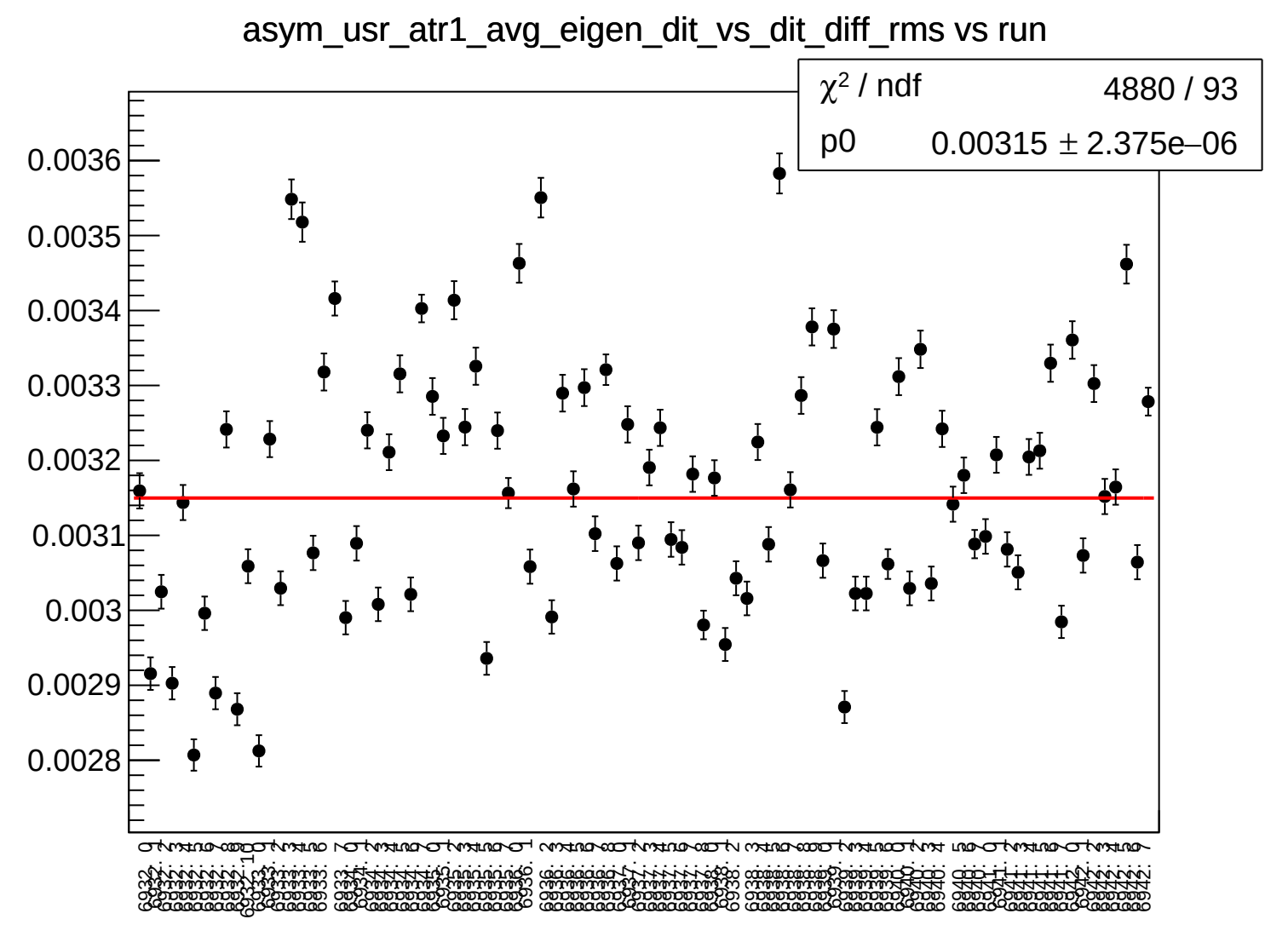

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 93
p0 61.46 ± 0.04832
120
100
80
60
40

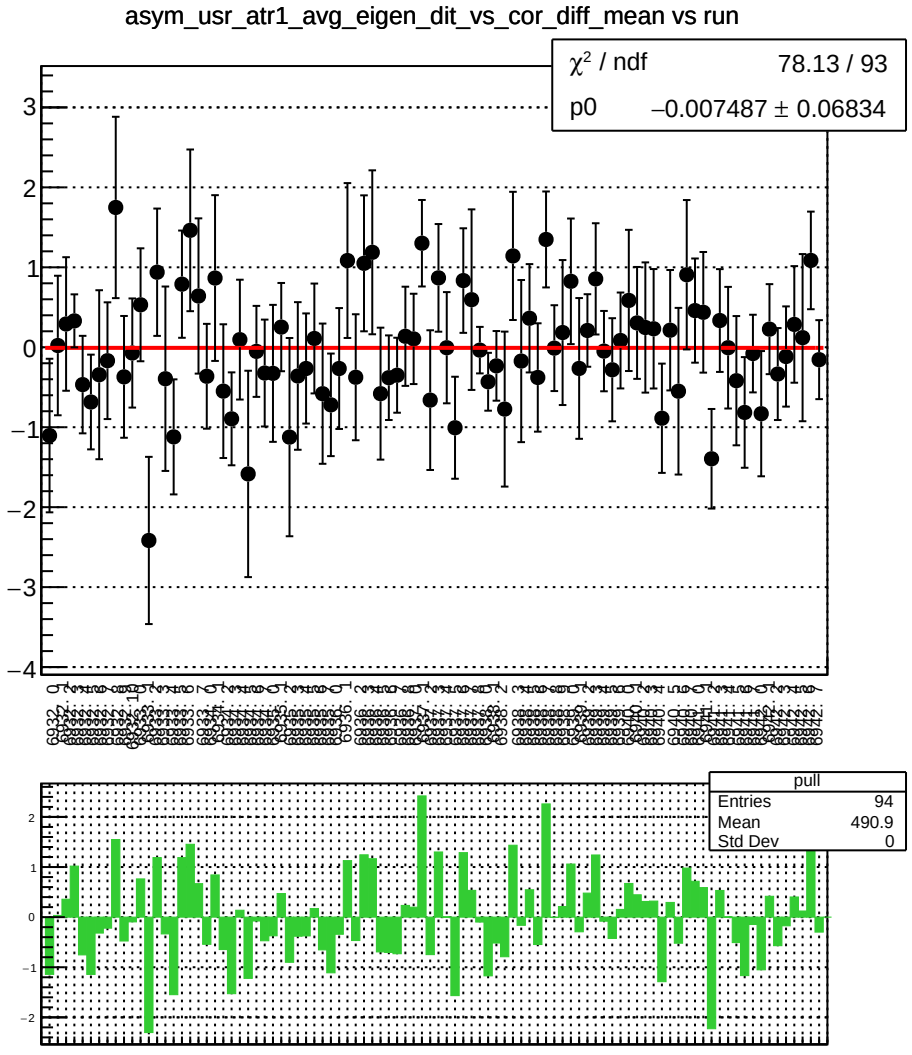

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.13 / 93
p0 −0.007496 ± 0.06834
pull
Entries 94
Mean 490.4
Std Dev 0
pull1D
Entries 94
Mean 0.004614
Std Dev 0.9117

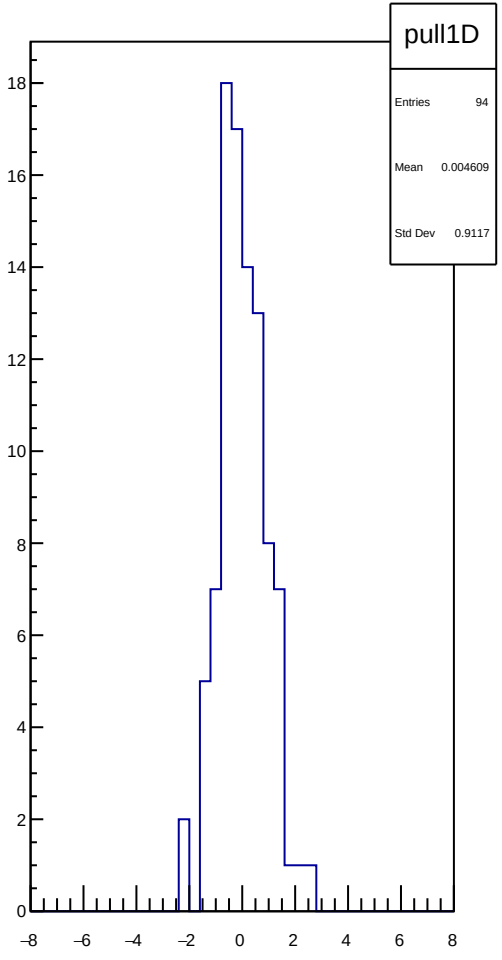

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 93
p0 61.46 ± 0.04832
120
100
80
60
40

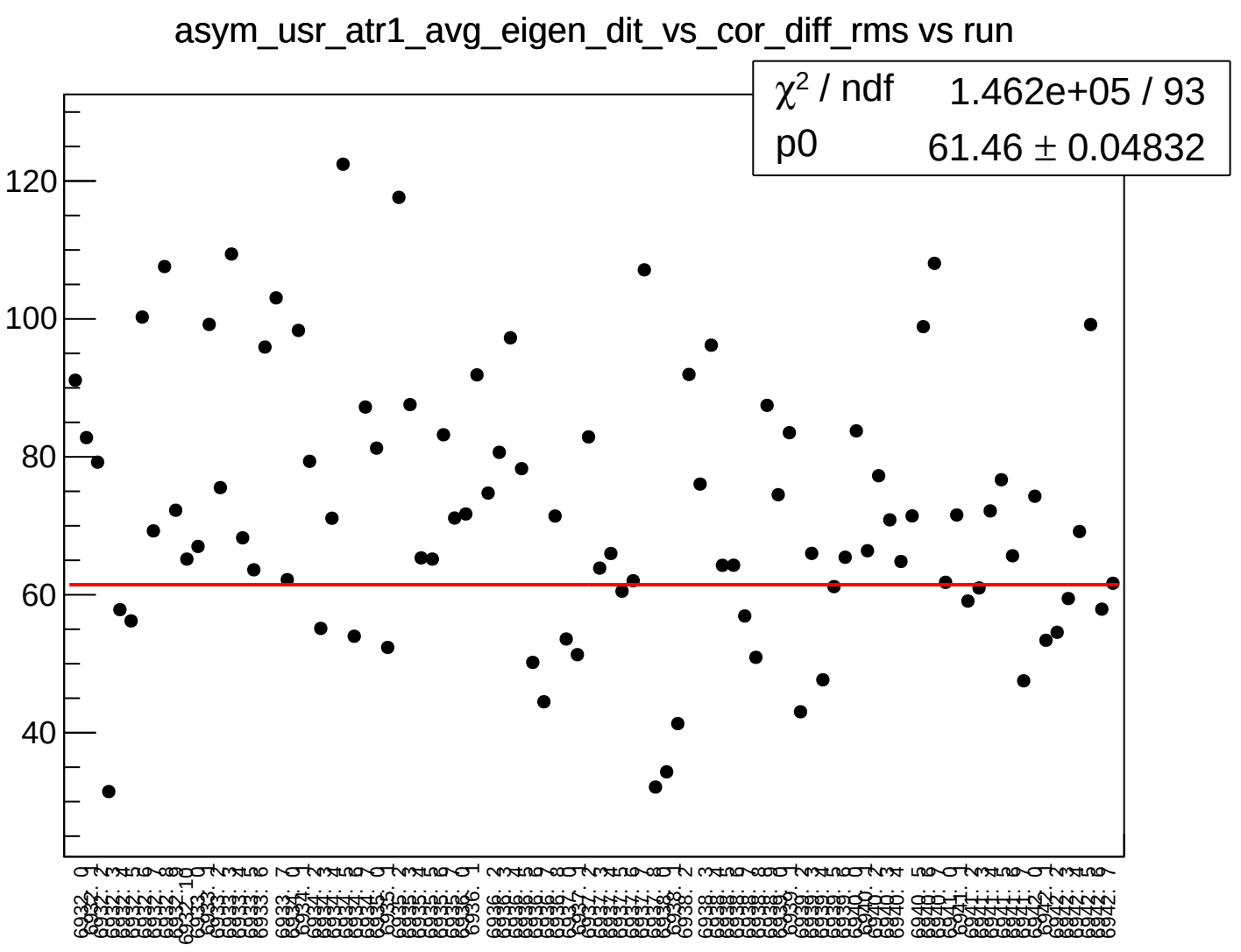

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.46 / 93
p0 3.459e−06 ± 3.359e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 434.7
Std Dev 0
2
1
0
−1
−2

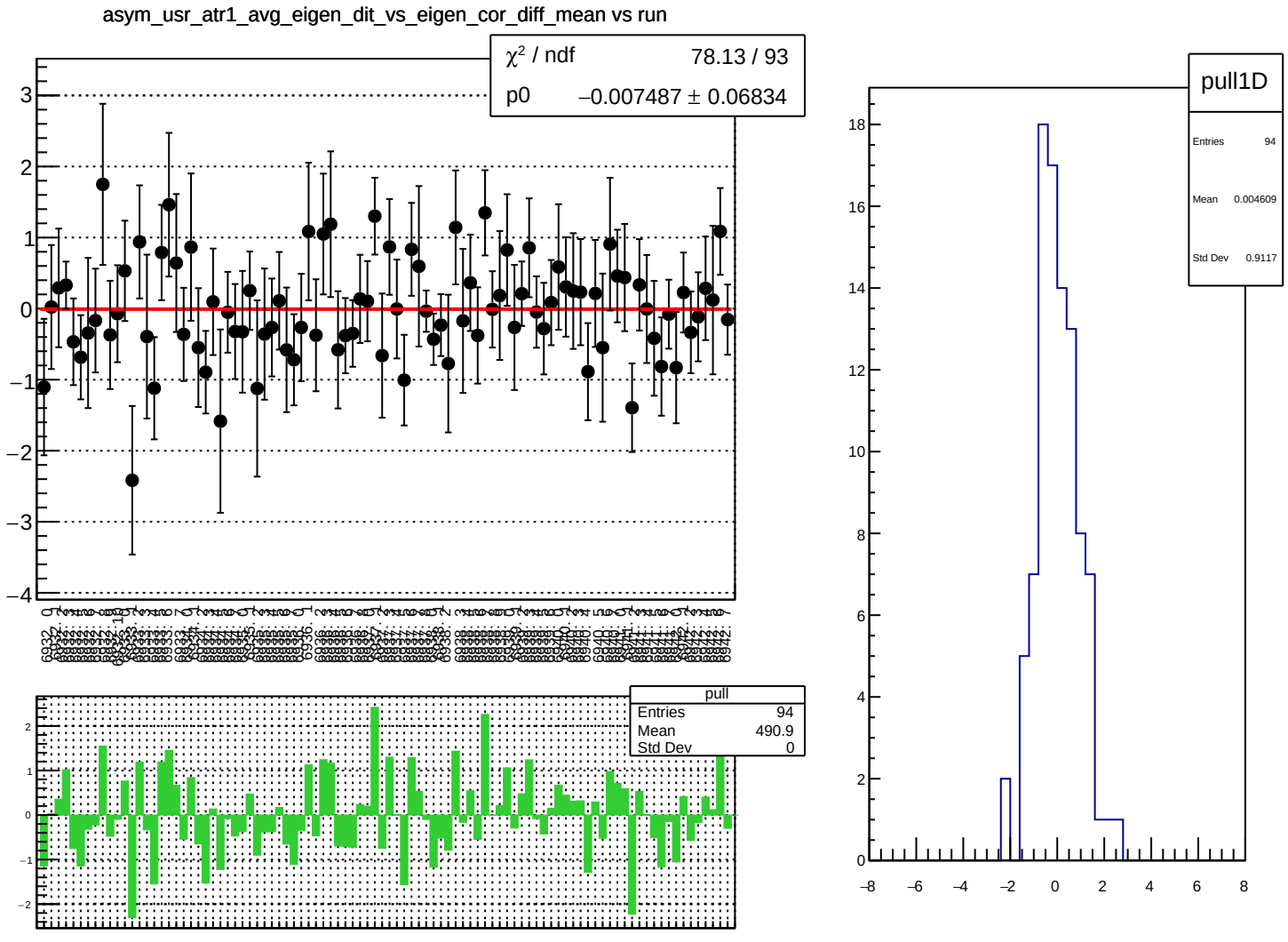

pull1D
Entries 94
Mean −0.006886
Std Dev 0.981
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

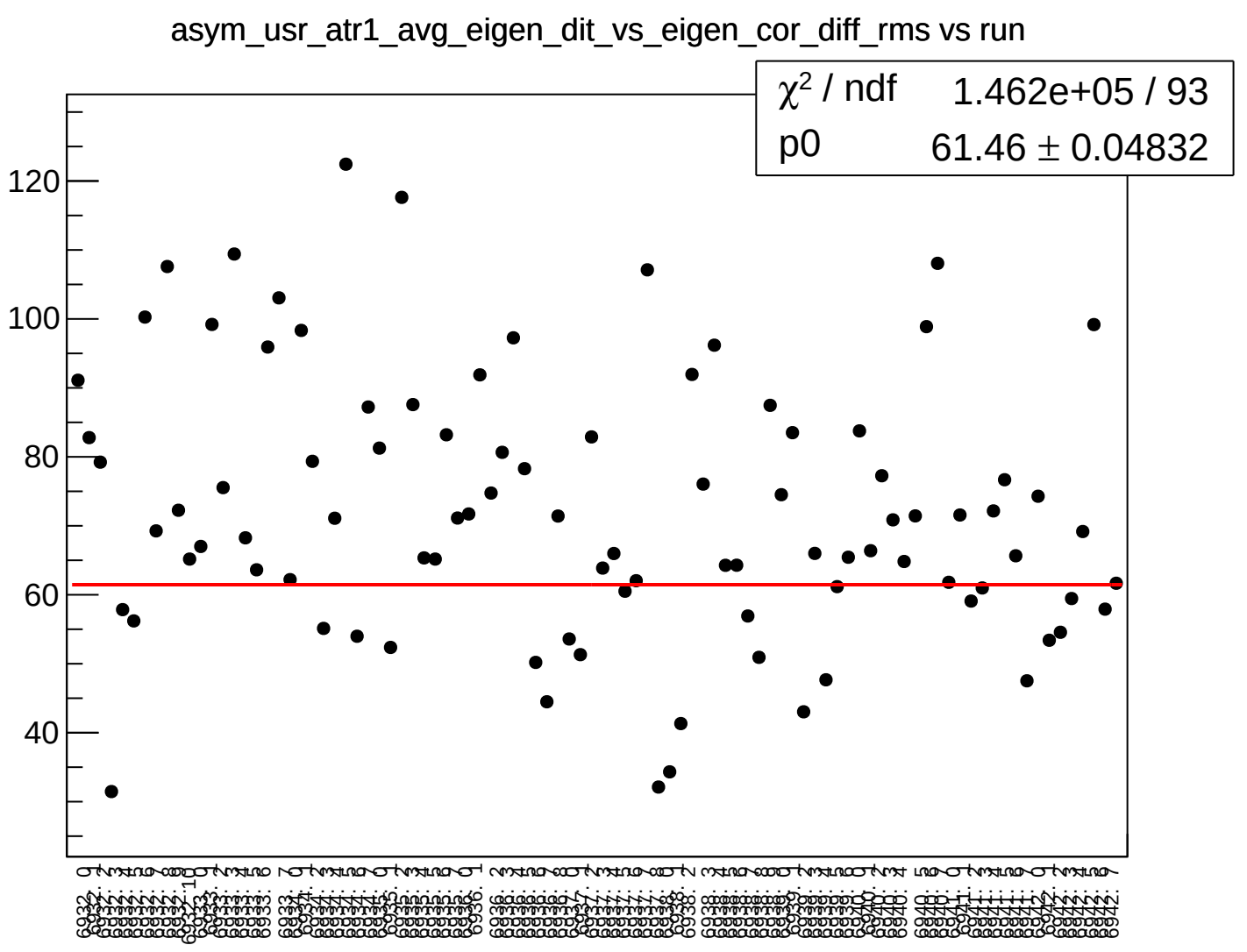

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4880 / 93
p0 0.00315 ± 2.375e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028

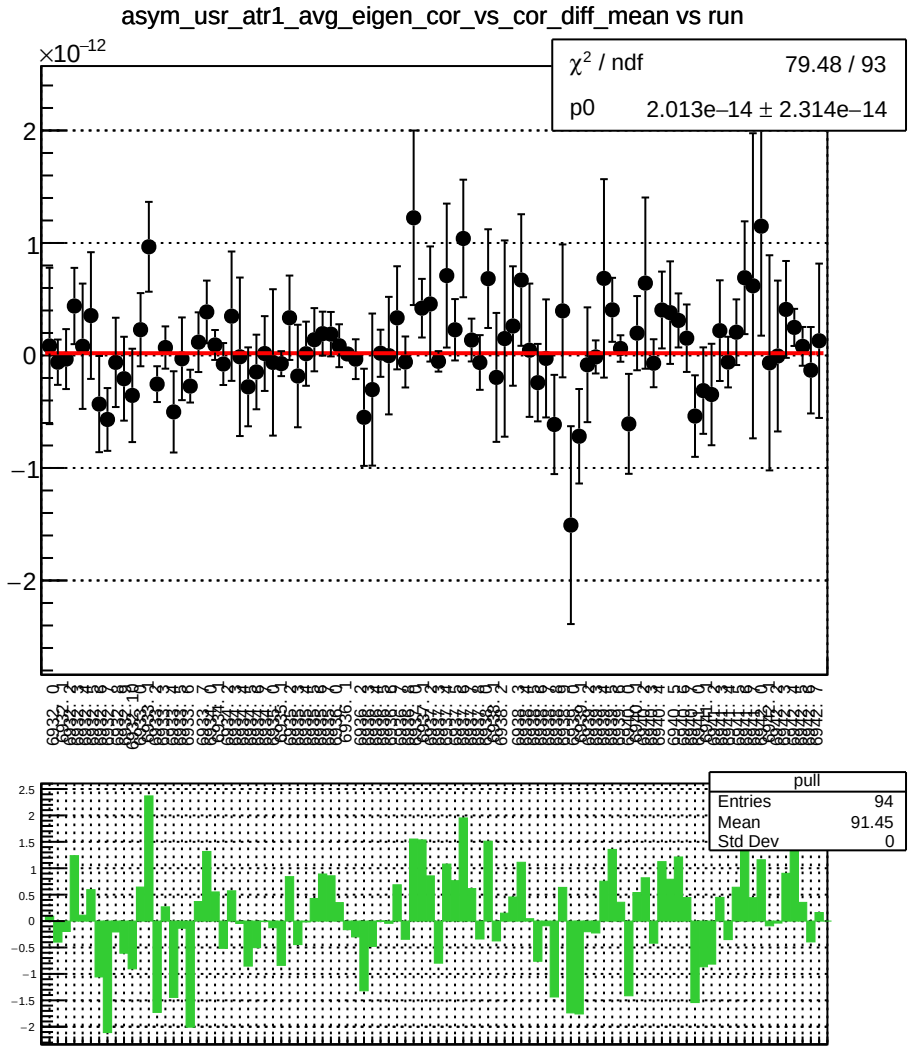

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.13 / 93
p0 −0.007487 ± 0.06834
pull
Entries 94
Mean 490.9
Std Dev 0

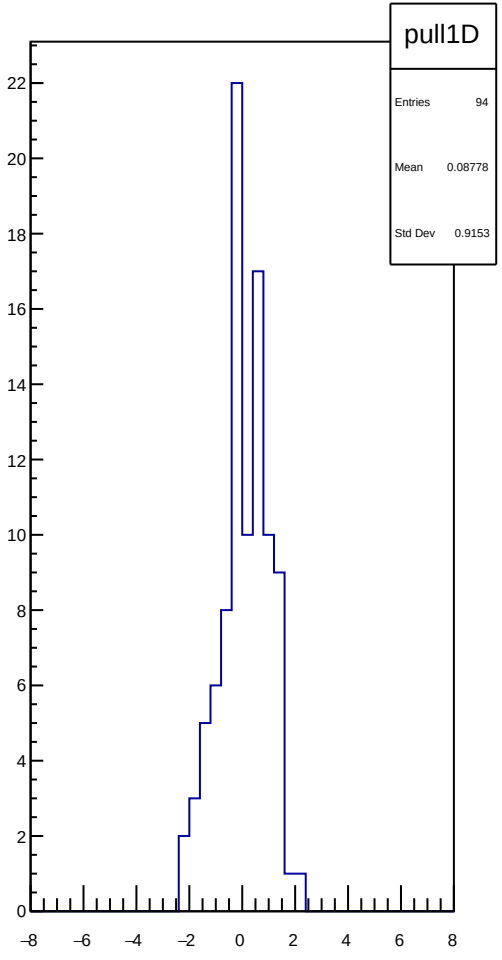

pull1D
Entries 94
Mean 0.004609
Std Dev 0.9117

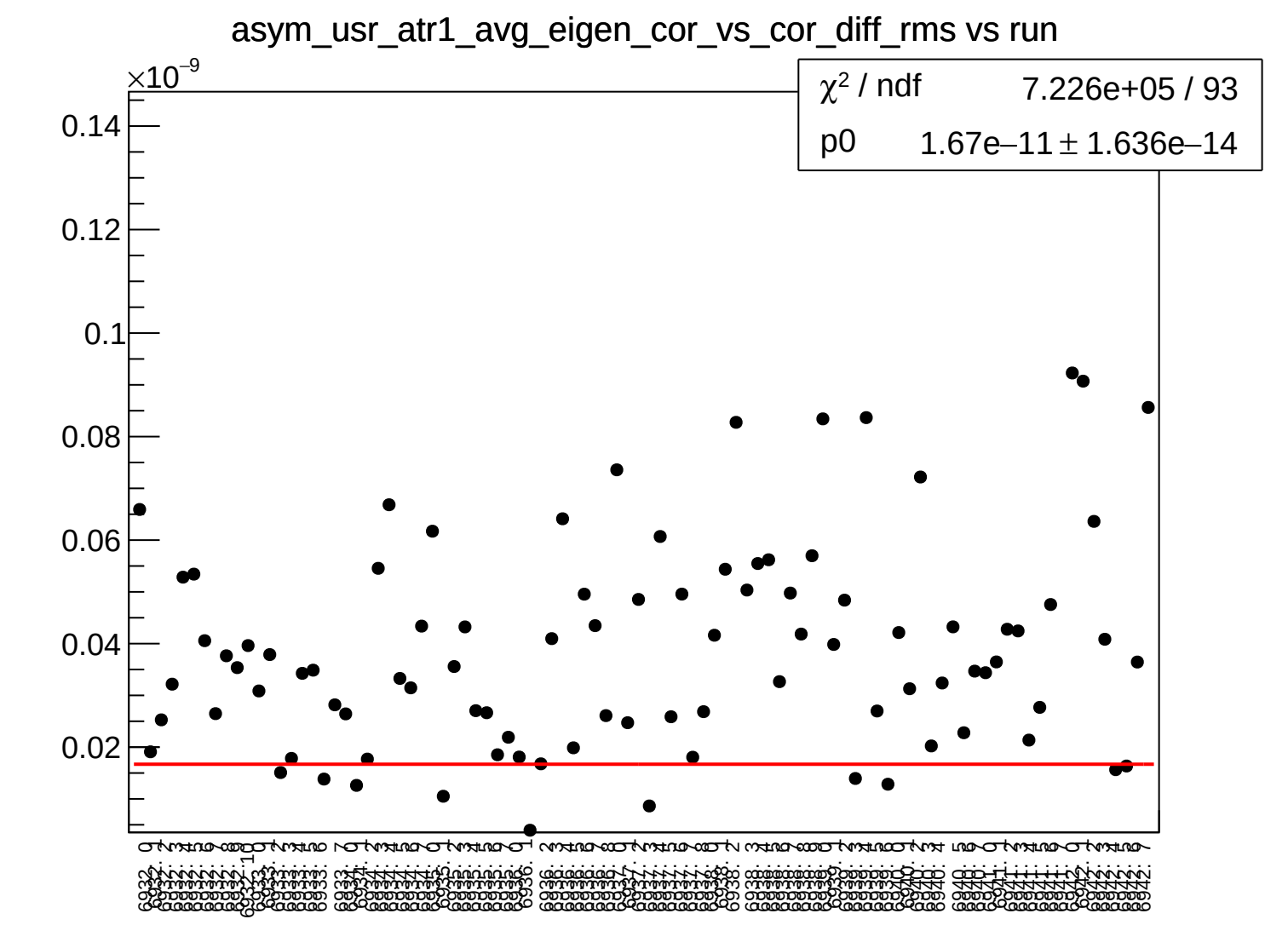

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 93
p0 61.46 ± 0.04832
120
100
80
60
40

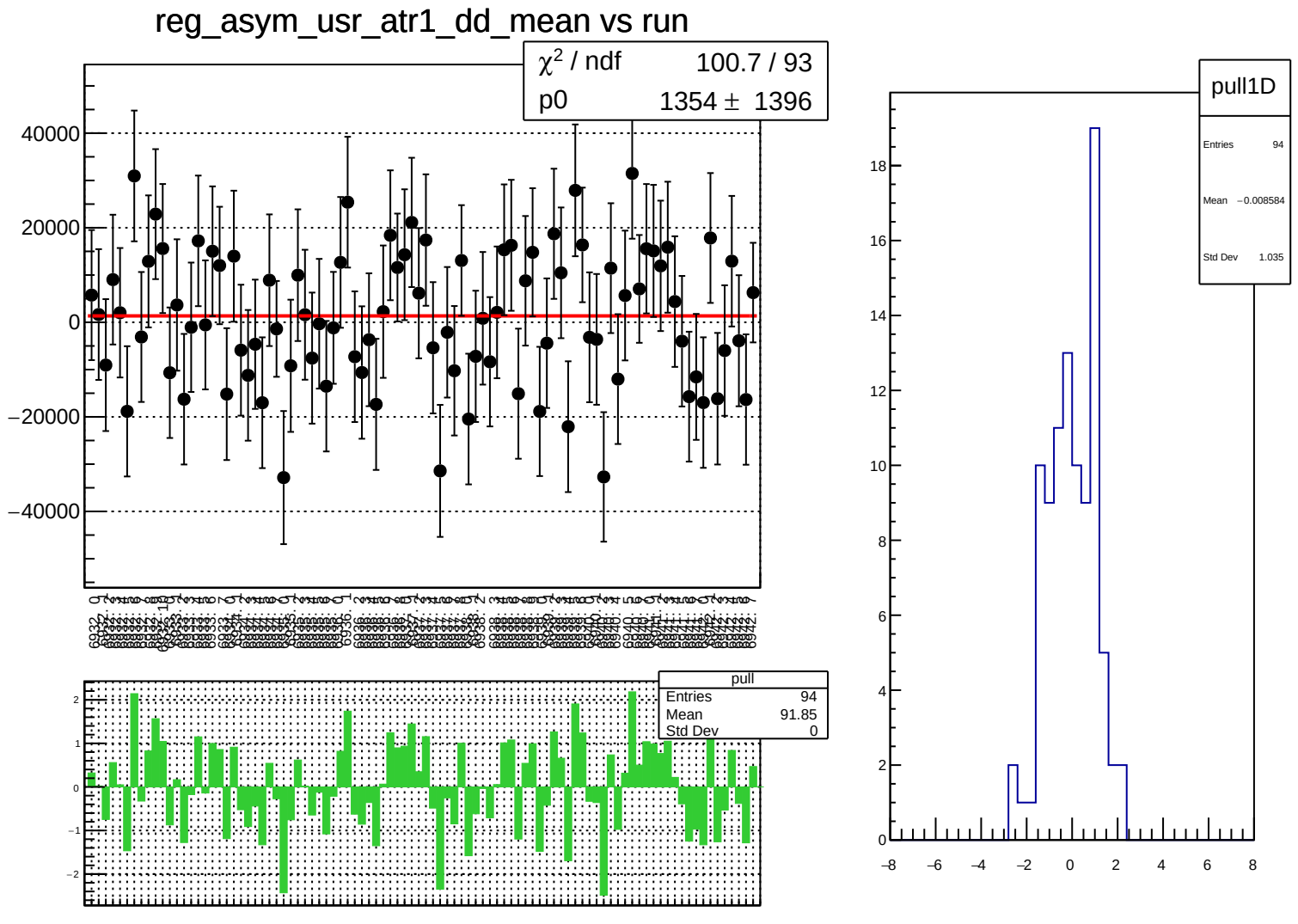

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.13 / 93
p0 −0.007487 ± 0.06834
pull
Entries 94
Mean 490.9
Std Dev 0
pull1D
Entries 94
Mean 0.004609
Std Dev 0.9117

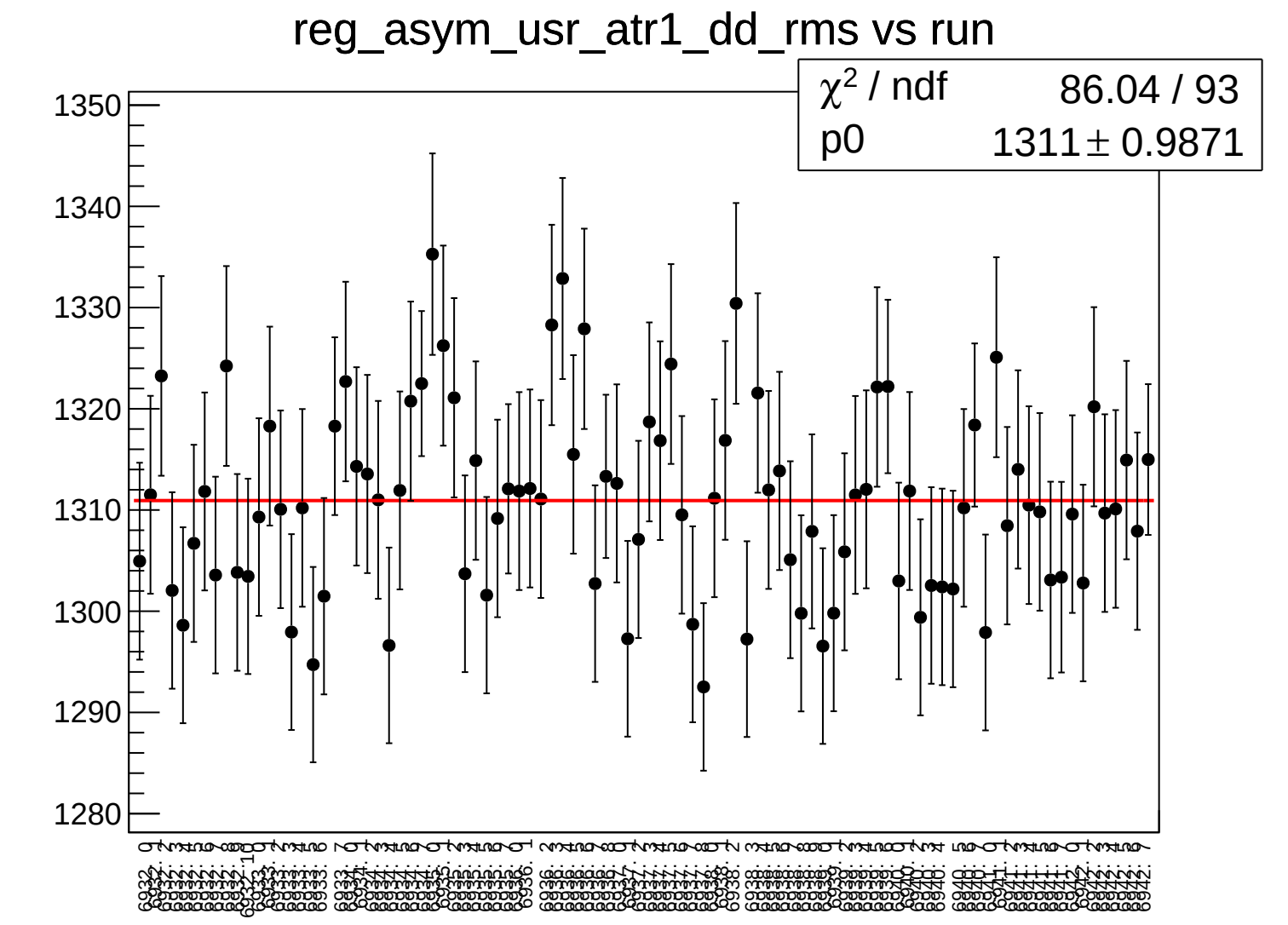

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.462e+05 / 93
p0 61.46 ± 0.04832
120
100
80
60
40

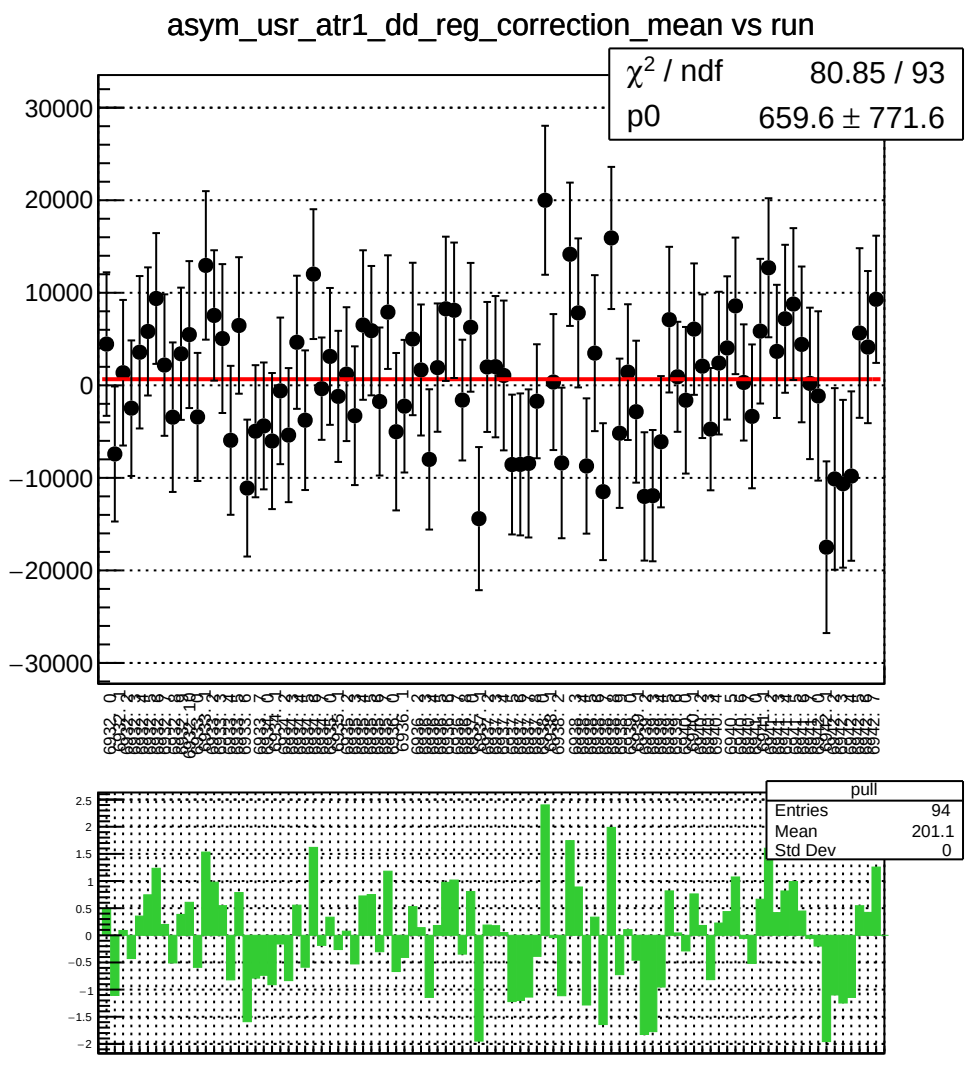

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79.48 / 93
p0 2.013e−14 ± 2.314e−14
pull
Entries 94
Mean 91.45
Std Dev 0

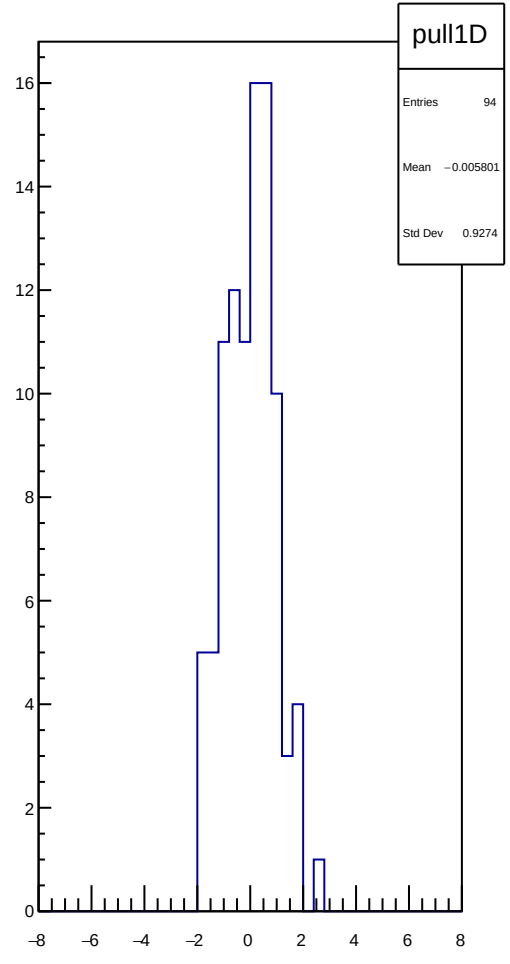

pull1D
Entries 94
Mean 0.08778
Std Dev 0.9153

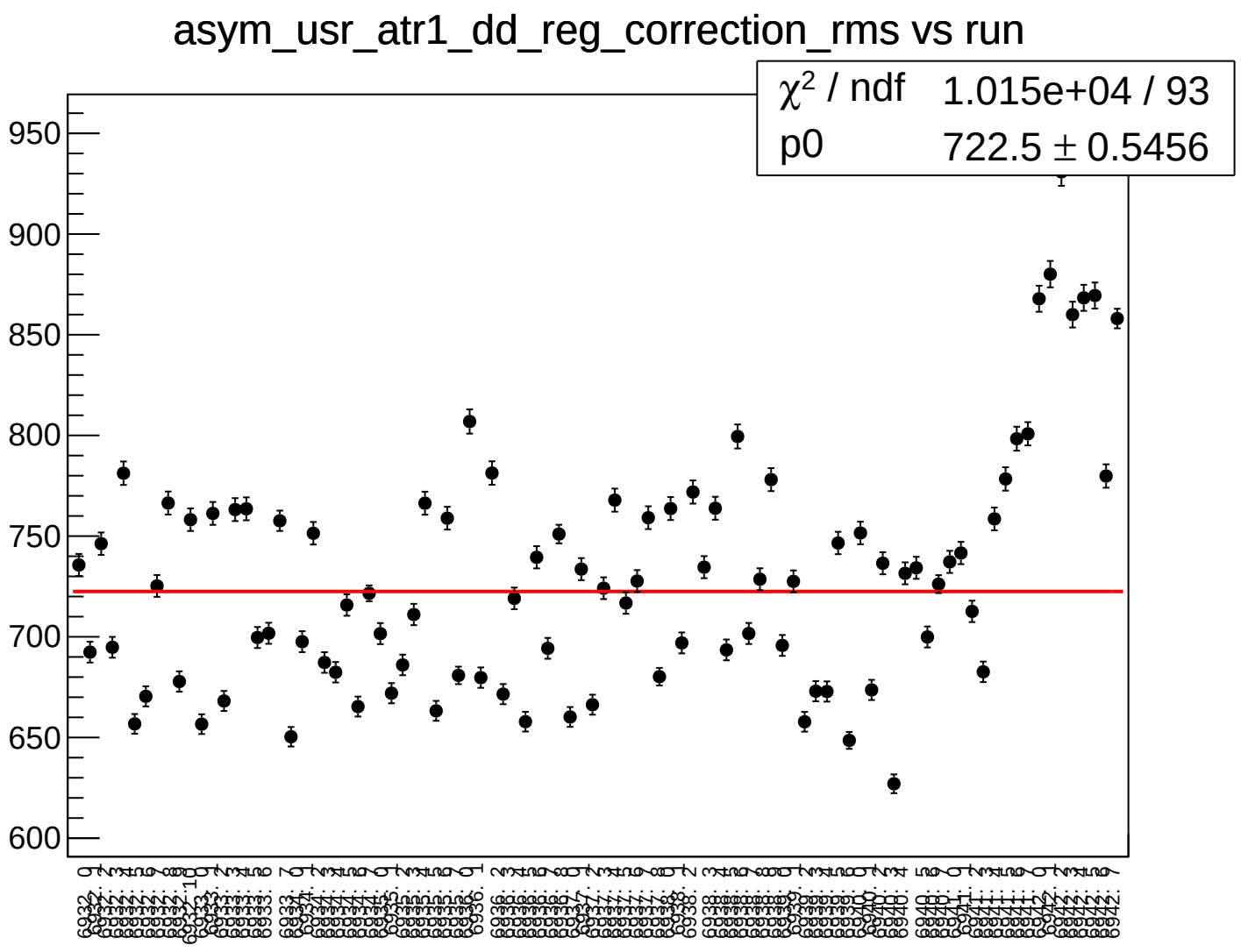

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.226e+05 / 93
p0 1.67e−11 ± 1.636e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

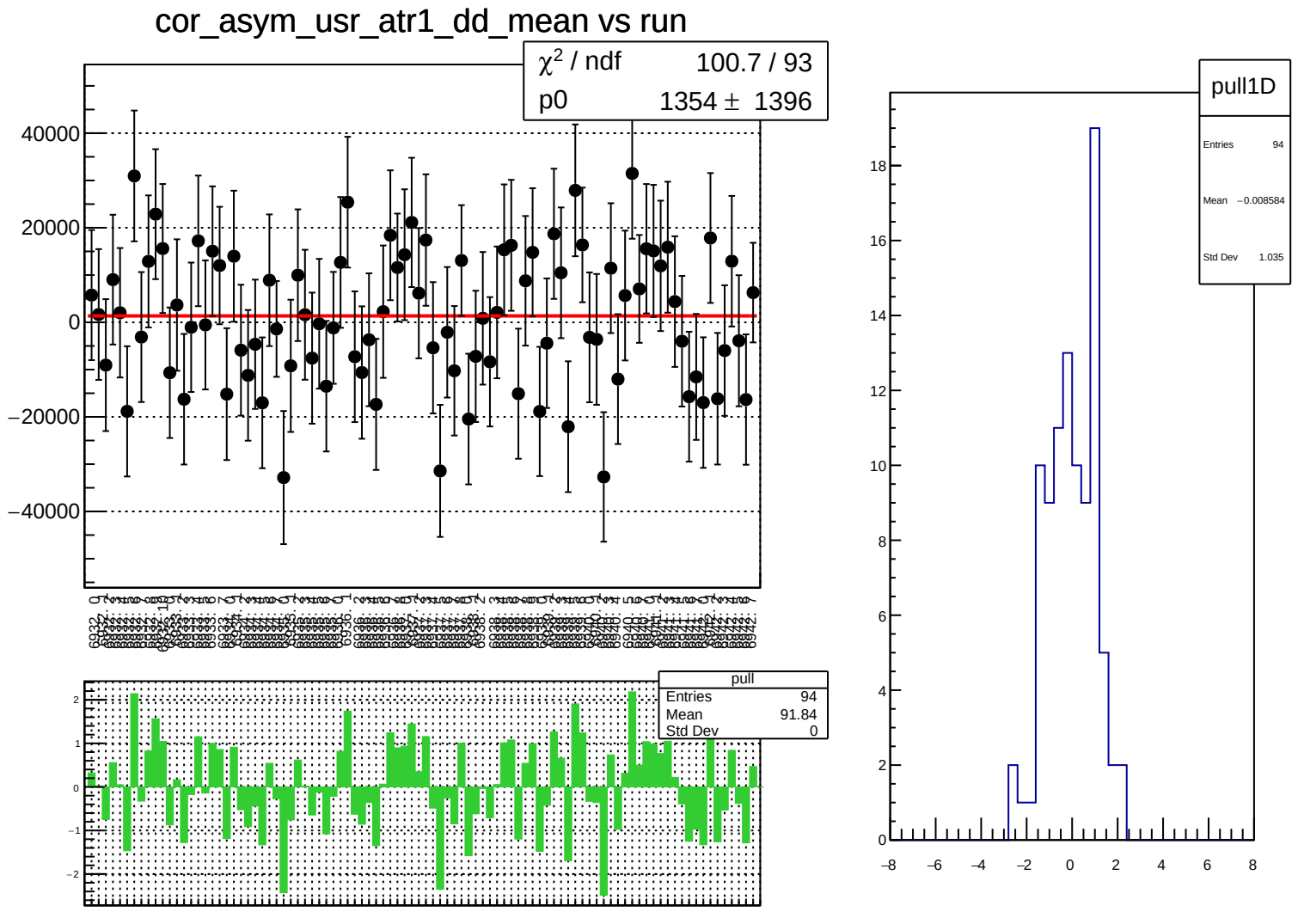

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.7 / 93
p0 1354 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 91.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.008584
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 86.04 / 93
p0 1311 ± 0.9871
1350
1340
1330
1320
1310
1300
1290
1280

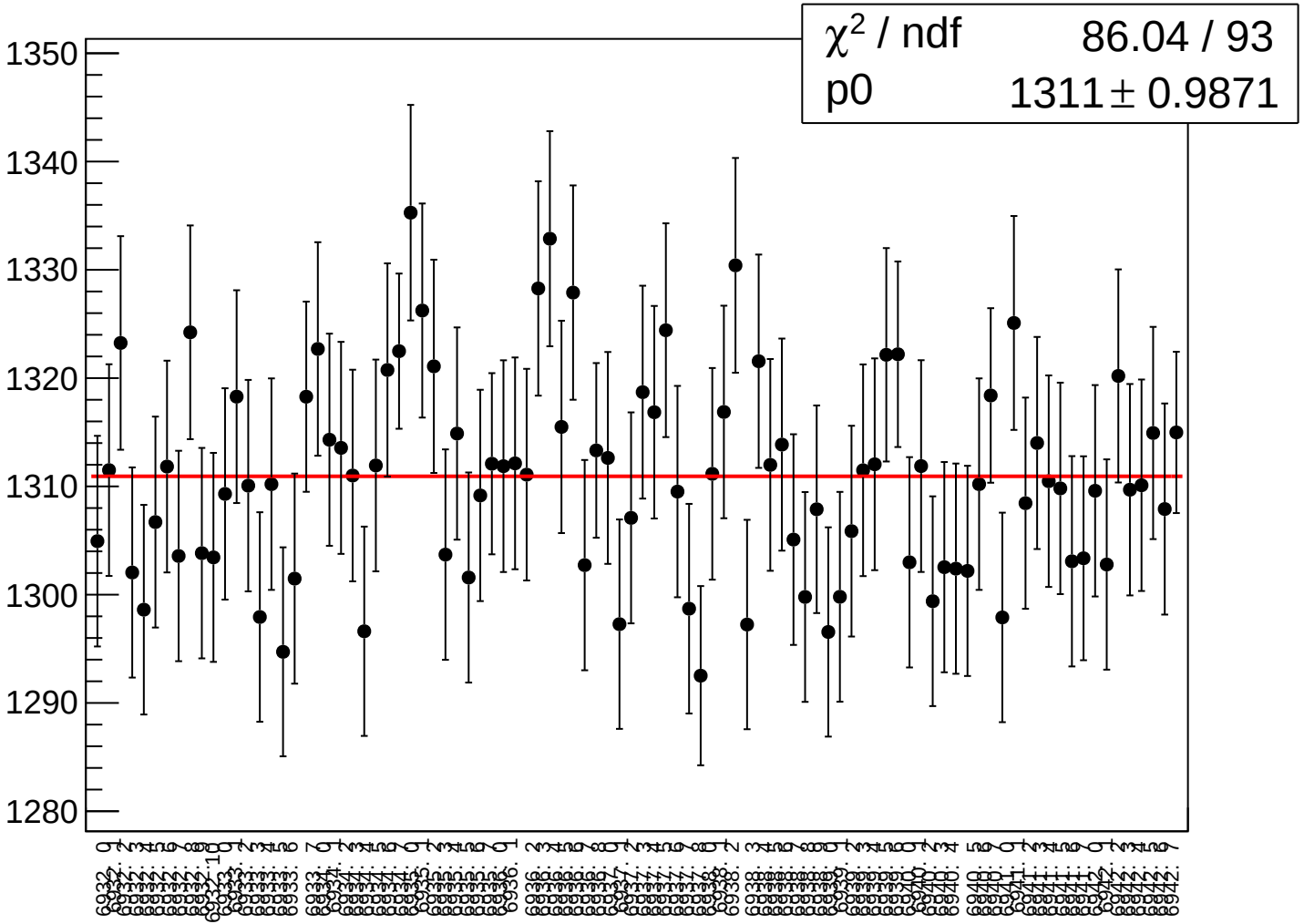

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 80.85 / 93
p0 659.6 ± 771.6
pull
Entries 94
Mean 201.1
Std Dev 0

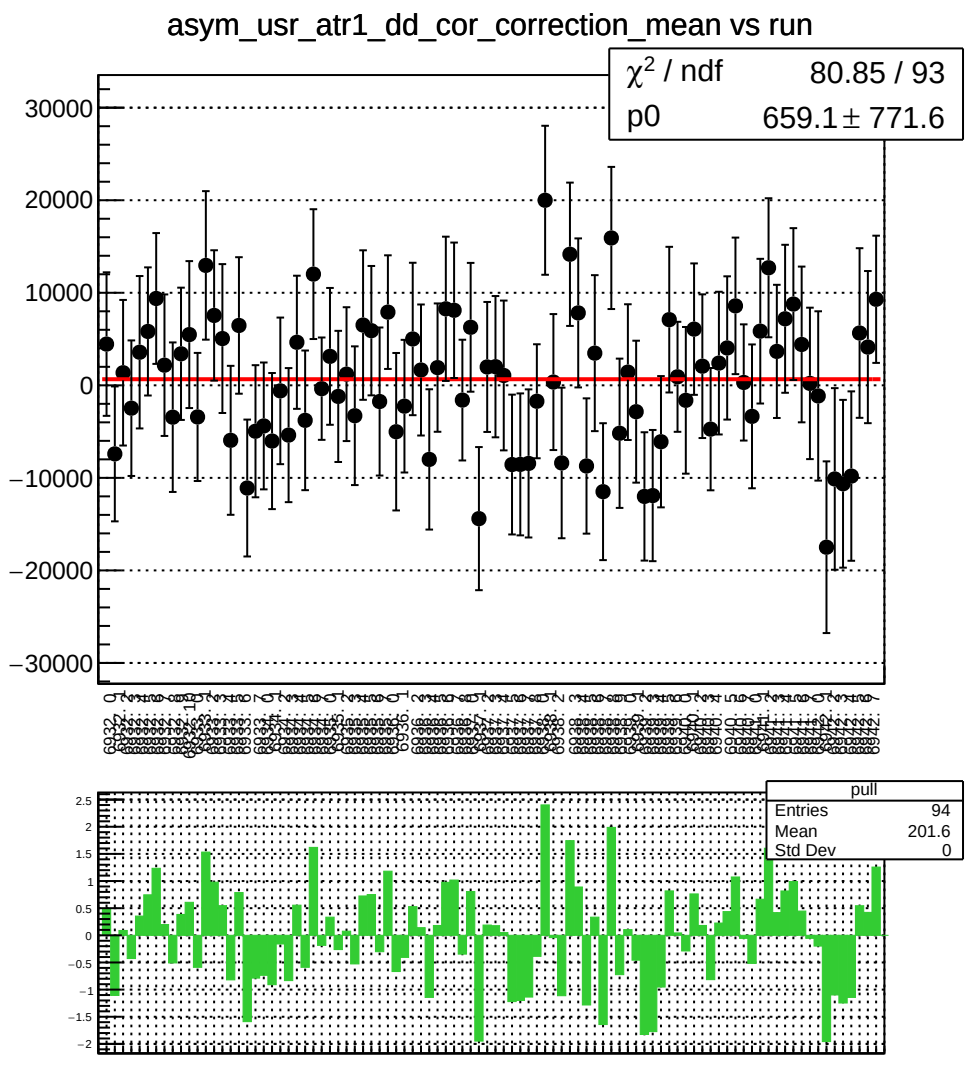

pull1D
Entries 94
Mean −0.005801
Std Dev 0.9274

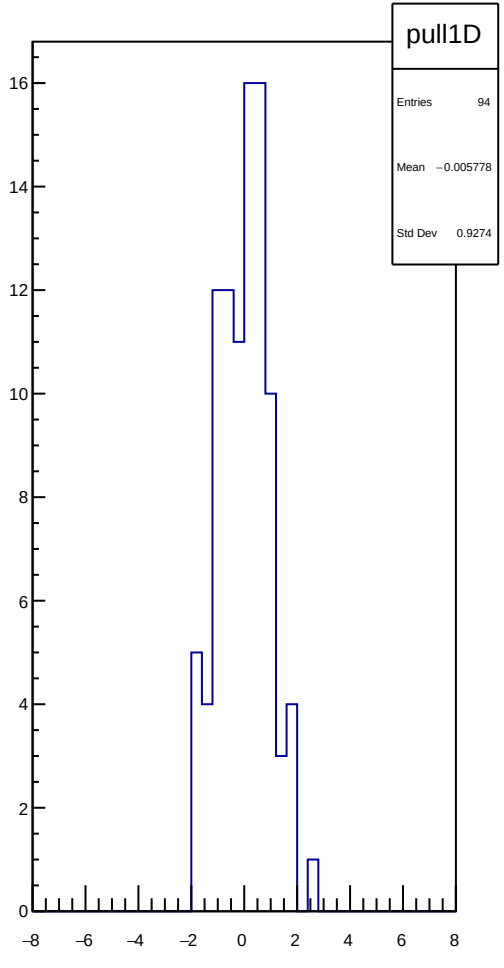

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.015e+04 / 93
p0 722.5 ± 0.5456
950
900
850
800
750
700
650
600

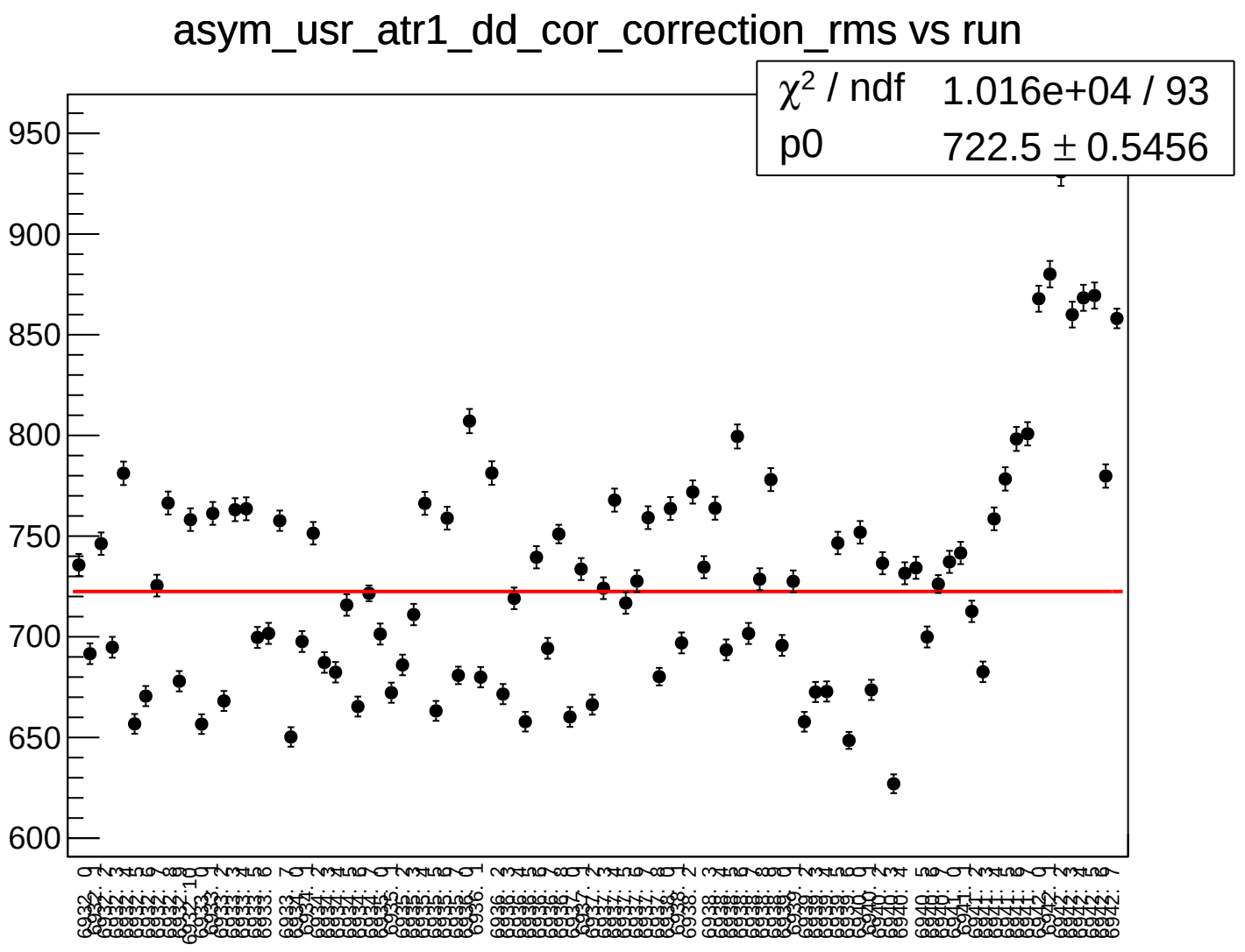

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.7 / 93
p0 1354 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 91.84
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.008584
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

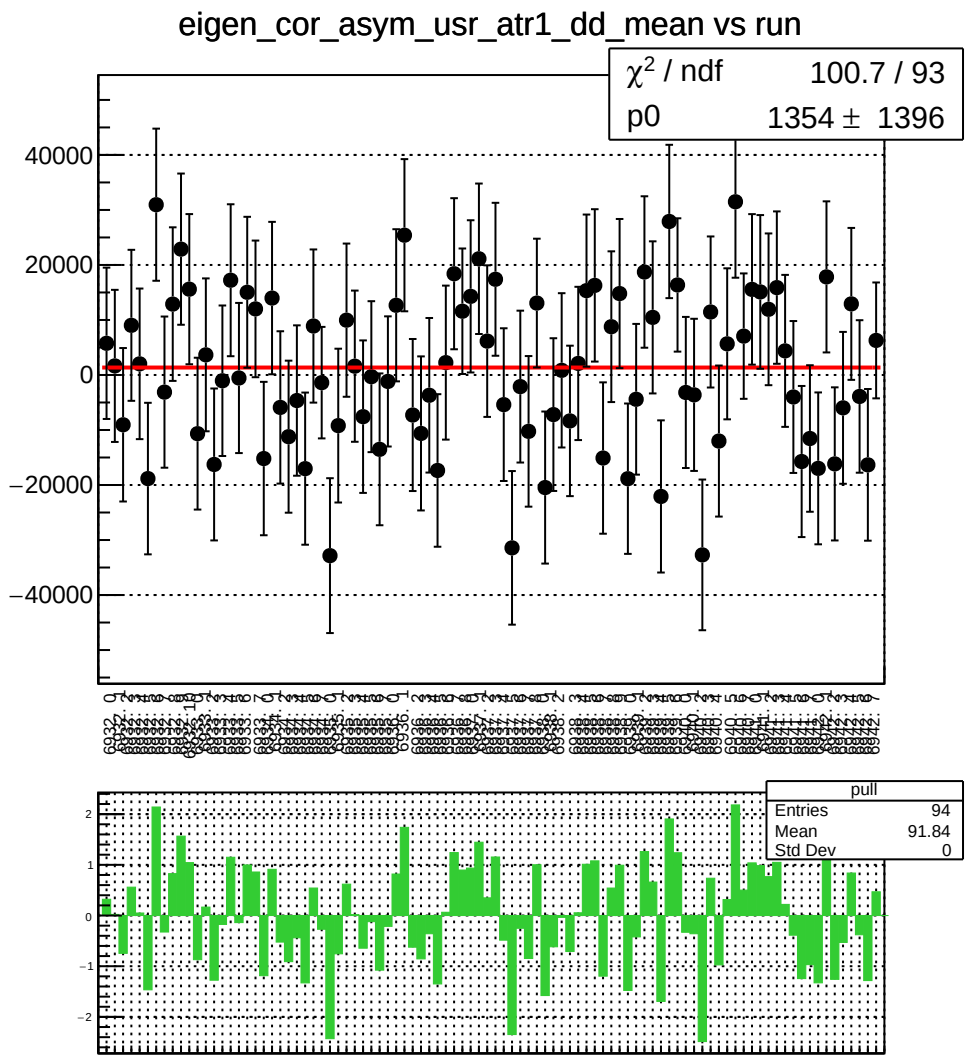
cor_asym_usr_atr1_dd_rms vs run

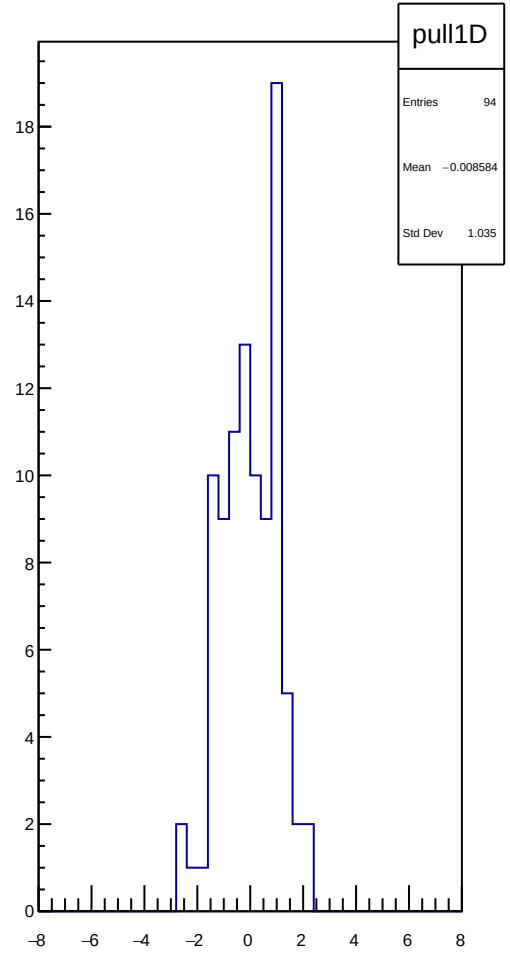



asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 80.85 / 93
p0 659.1 ± 771.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 201.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

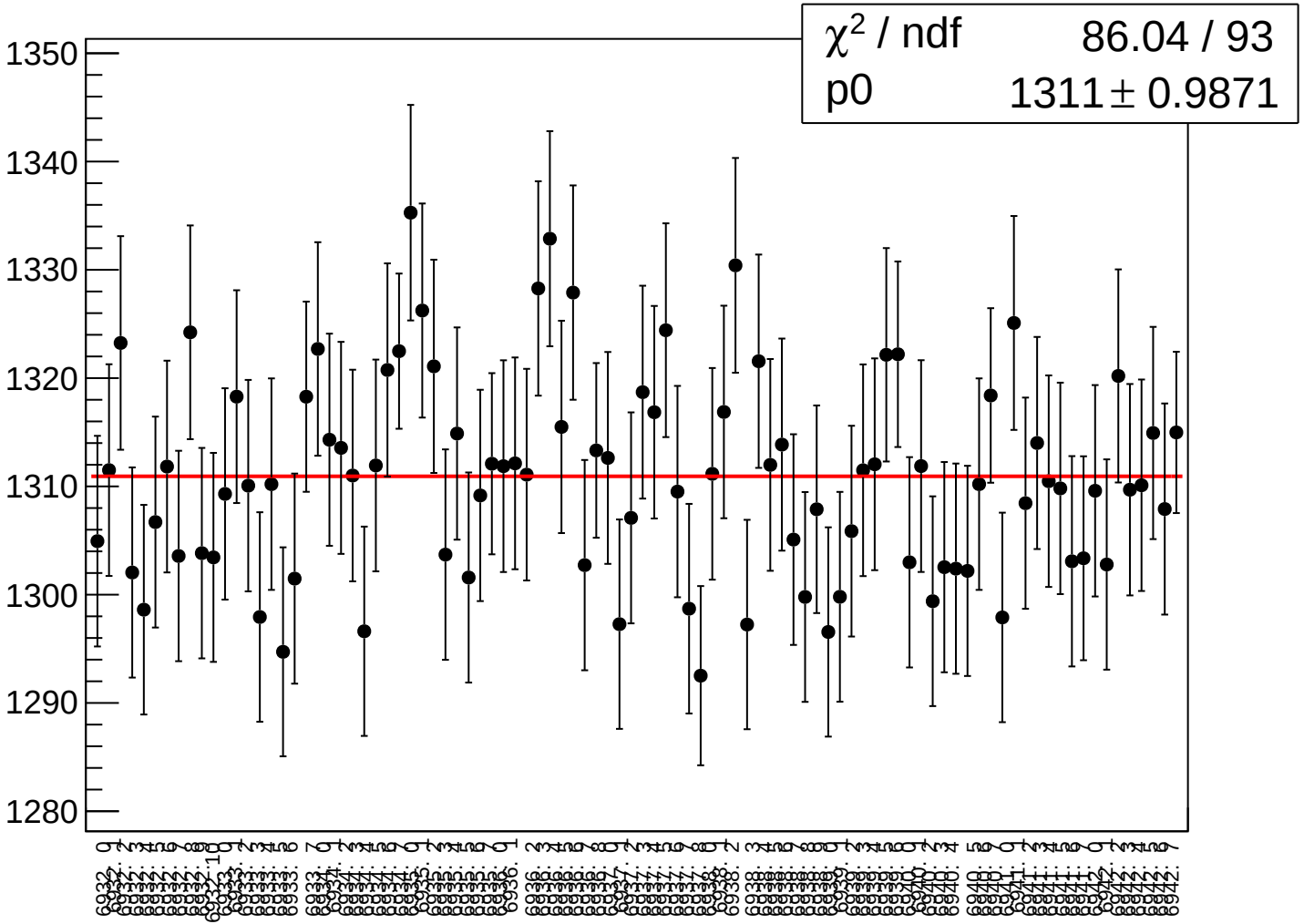

pull1D
Entries 94
Mean −0.005778
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

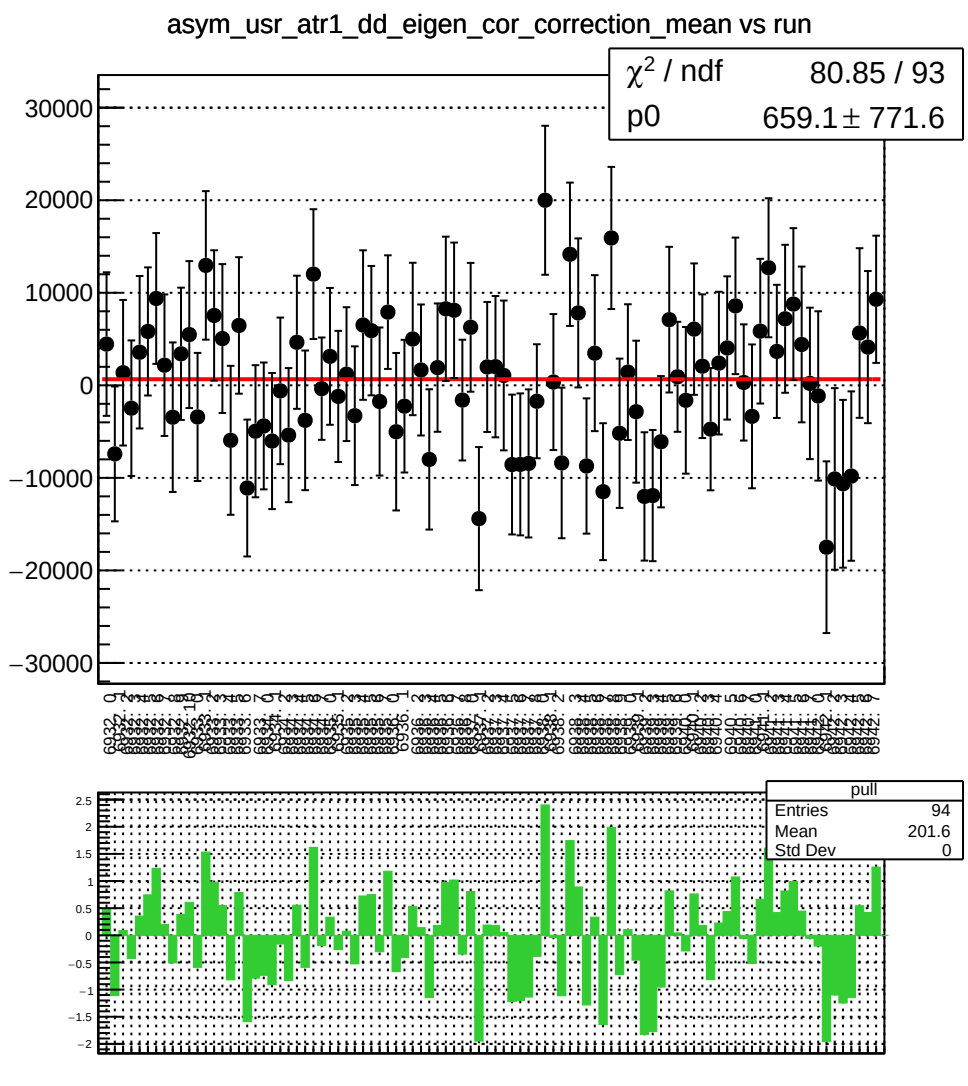

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 93
p0 722.5 ± 0.5456
950
900
850
800
750
700
650
600

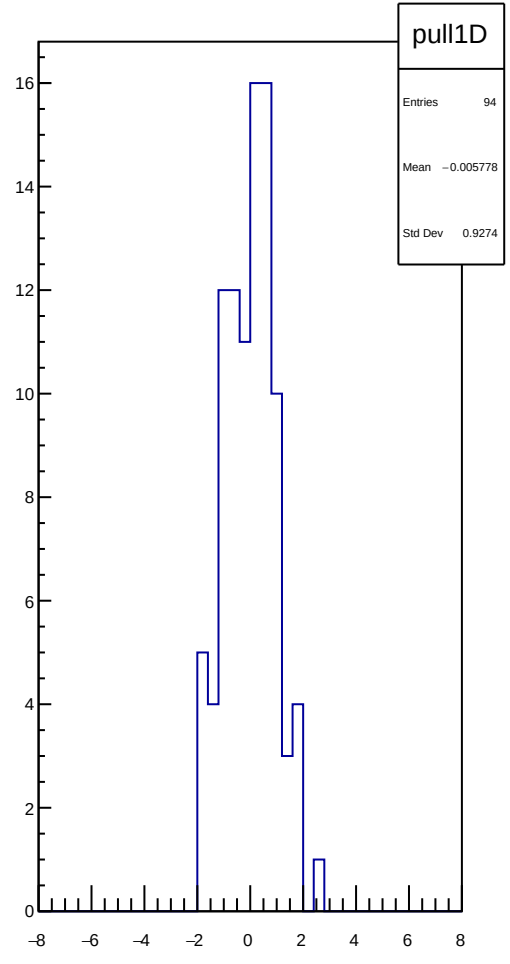

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 100.7 / 93
p0 1354 ± 1396
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 91.84
Std Dev 0
2
1
0
−1
−2

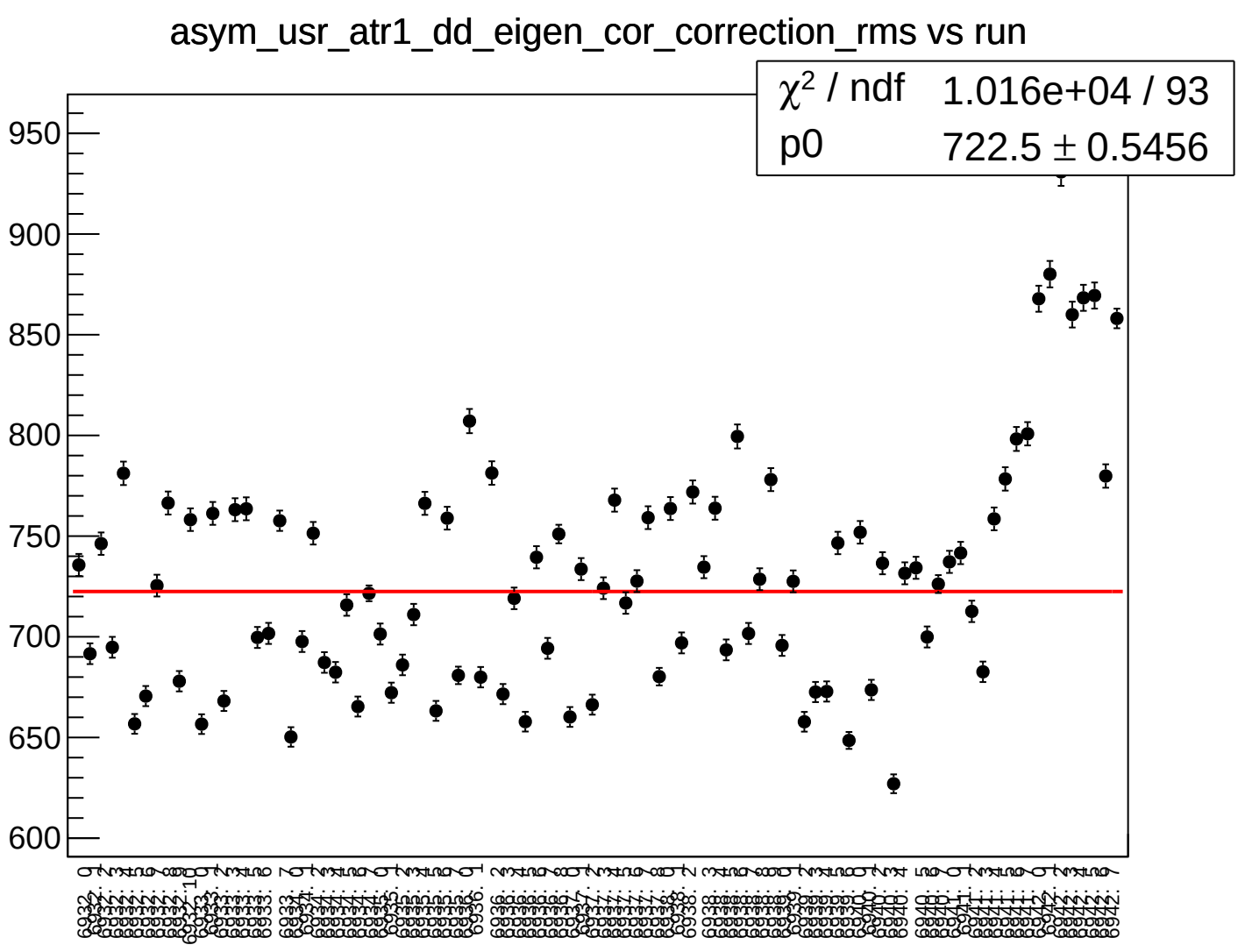

pull1D
Entries 94
Mean −0.008584
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

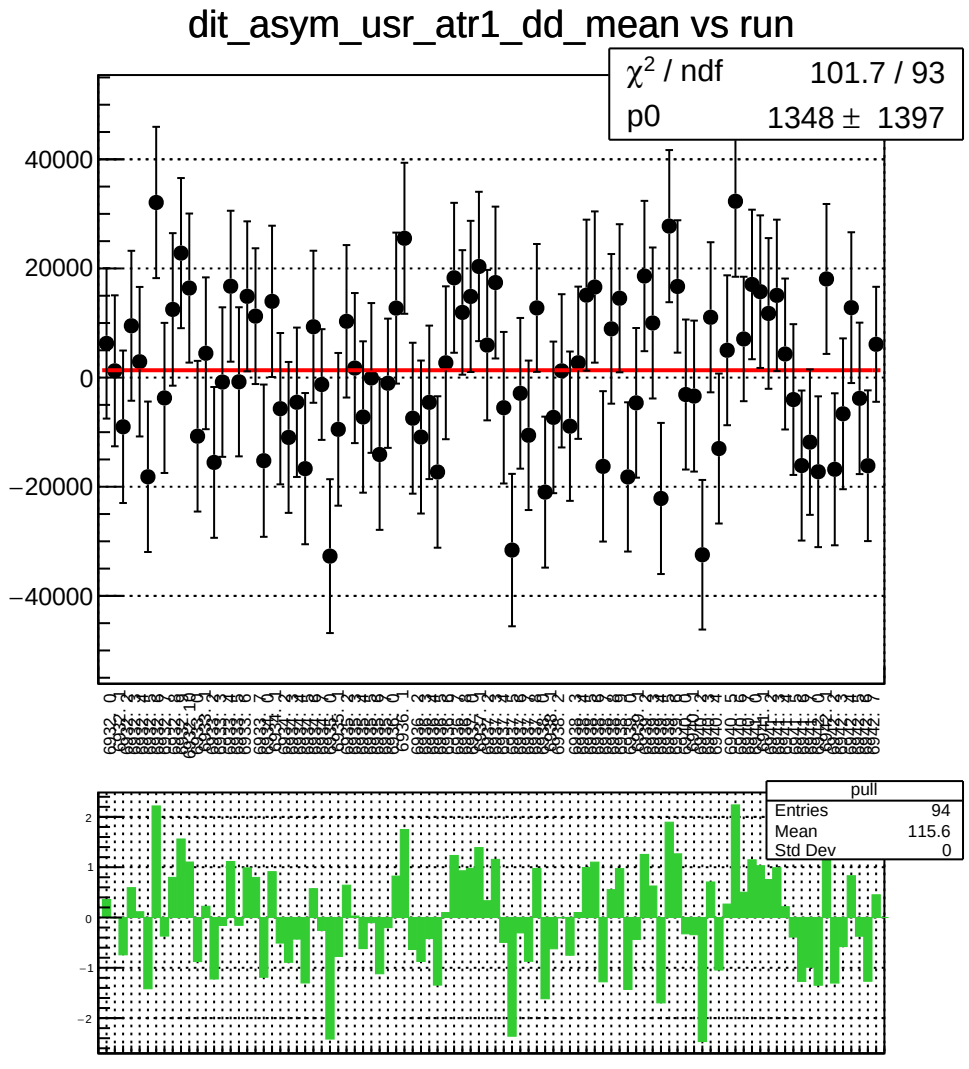
eigen_cor_asym_usr_atr1_dd_rms vs run

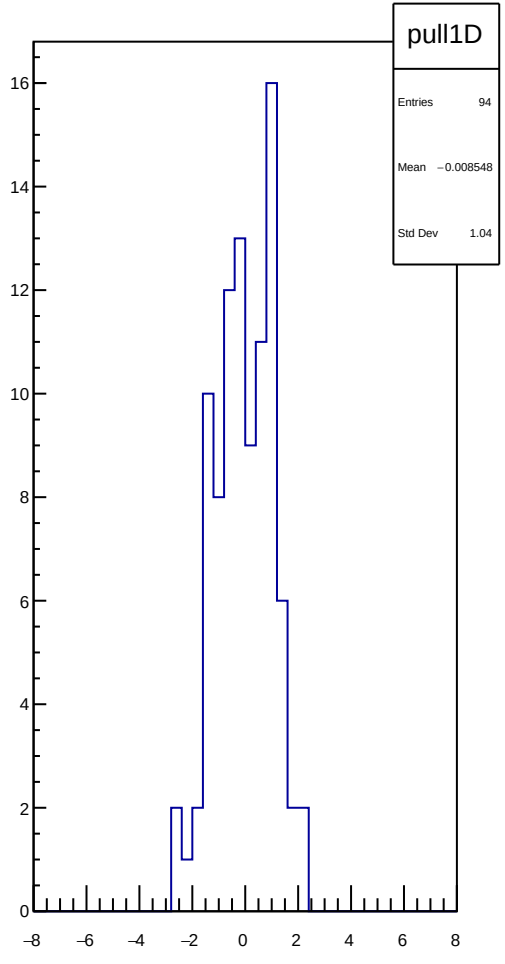


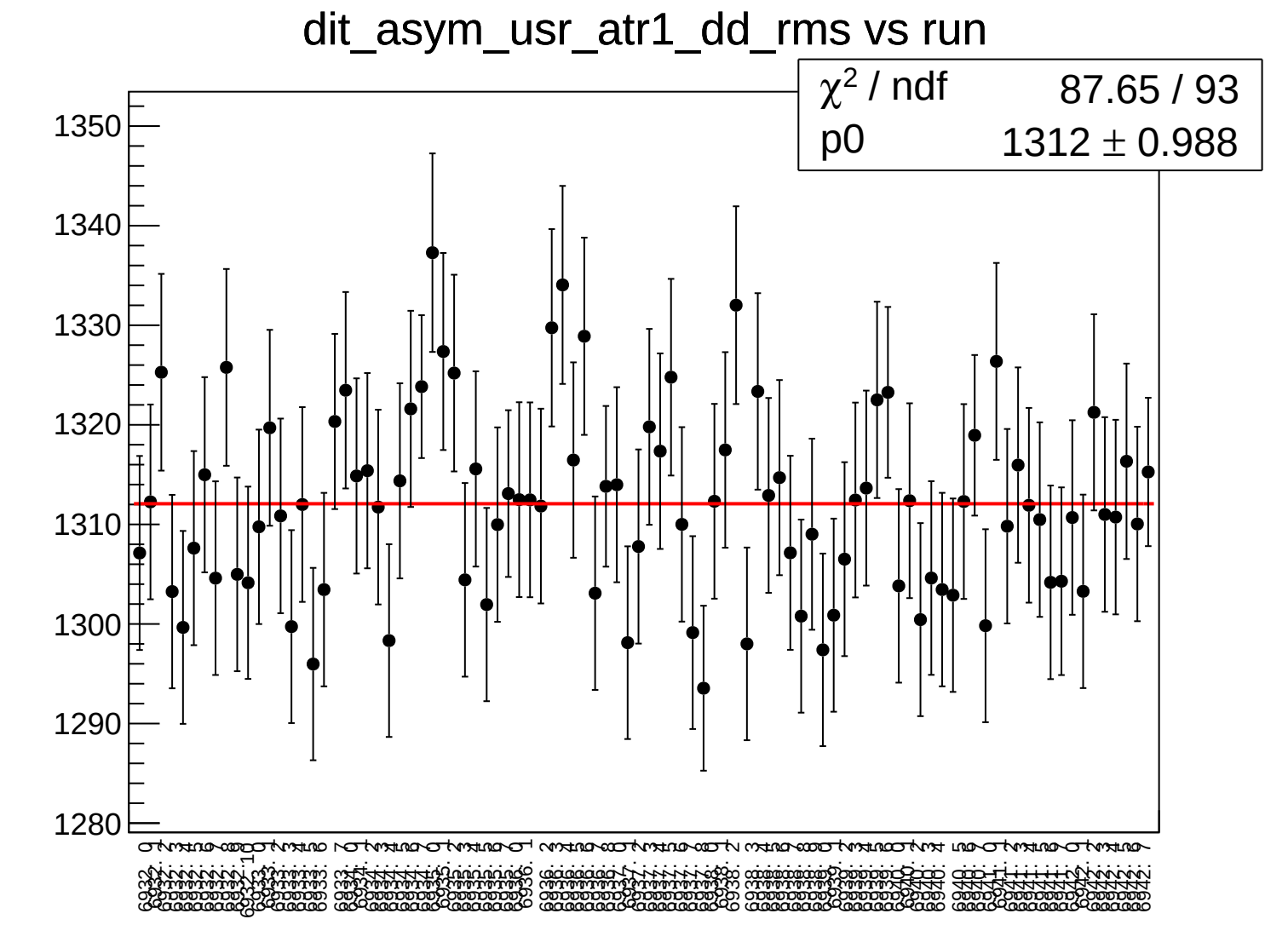

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.85 / 93
p0 659.1 ± 771.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 201.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

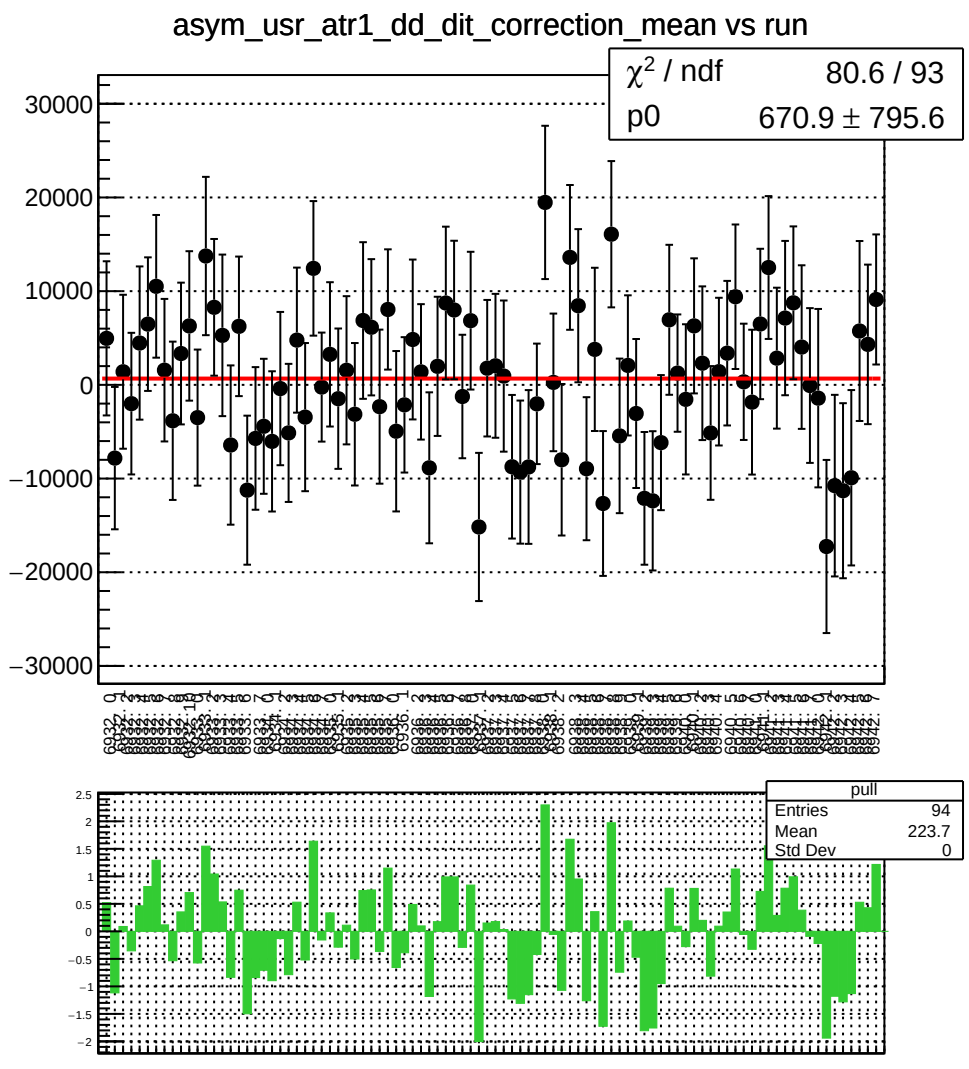

pull1D
Entries 94
Mean −0.005778
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

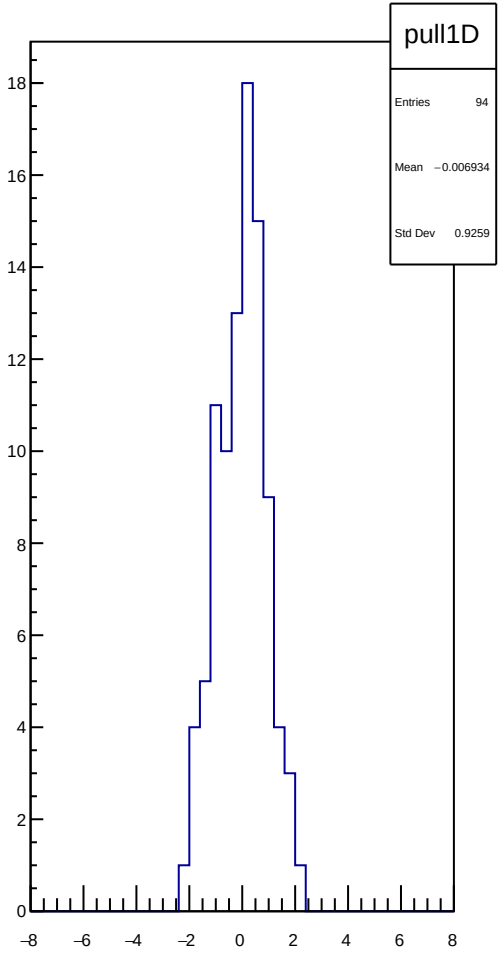

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.016e+04 / 93
p0 722.5 ± 0.5456
950
900
850
800
750
700
650
600

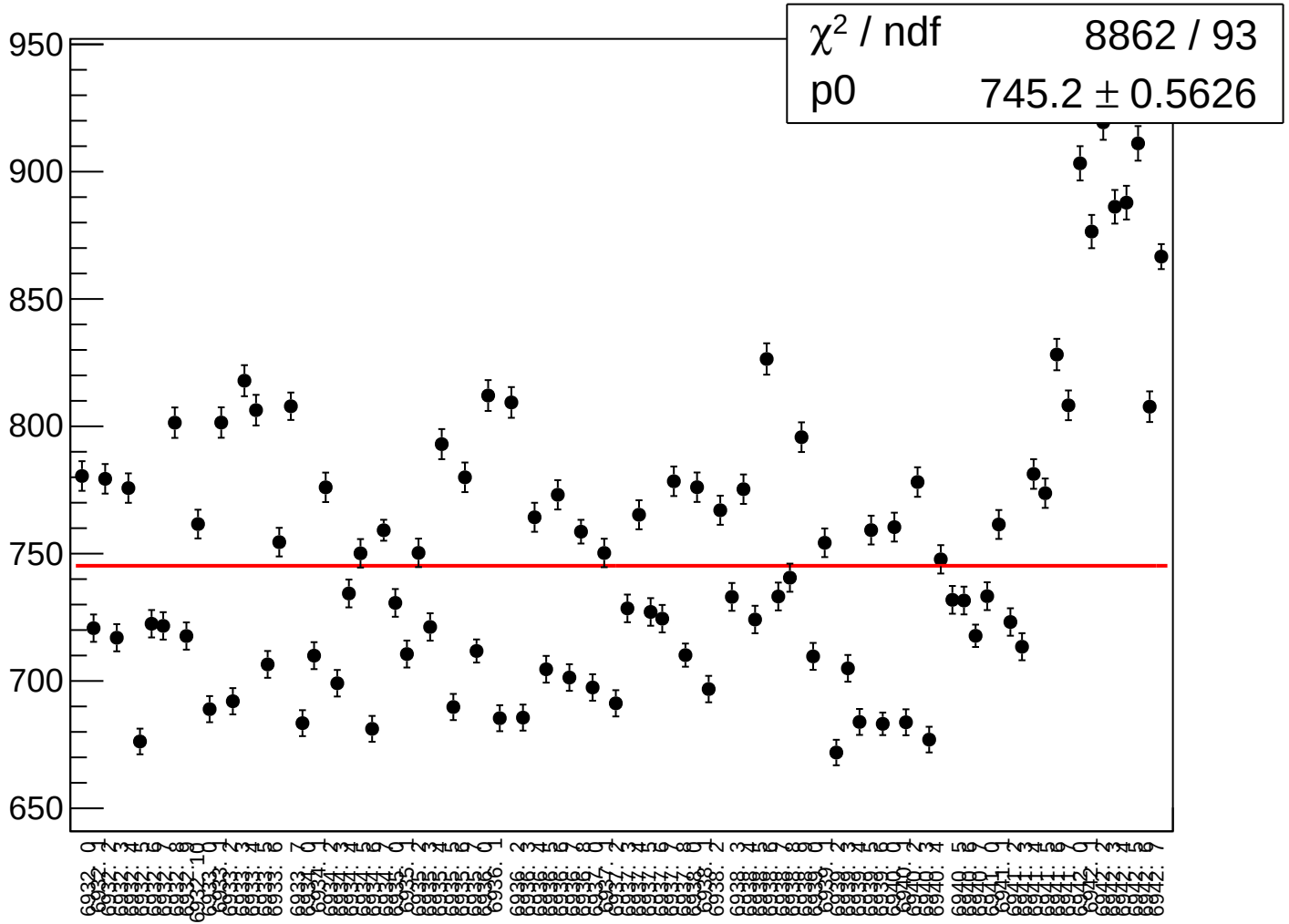

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.7 / 93
p0 1348 ± 1397
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 115.6
Std Dev 0
2
1
0
−1
−2

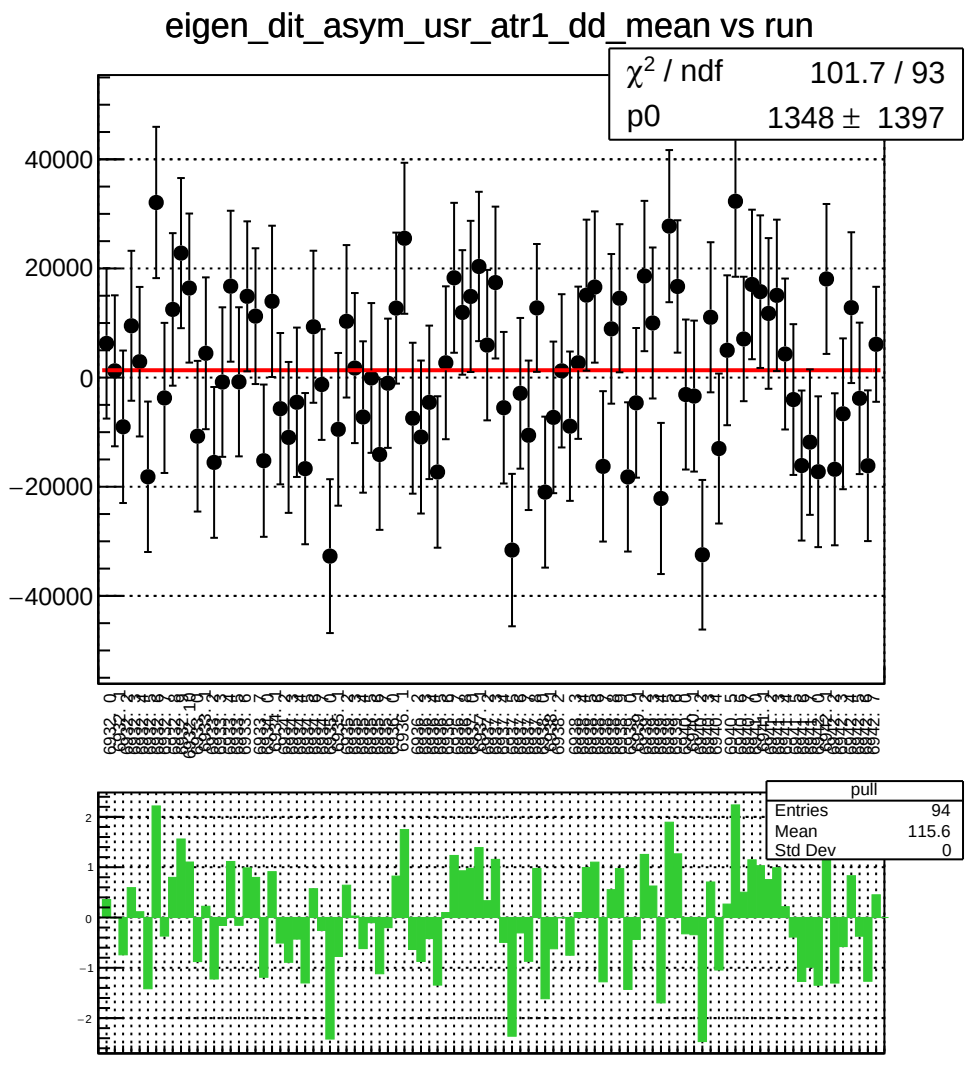

pull1D
Entries 94
Mean −0.008548
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

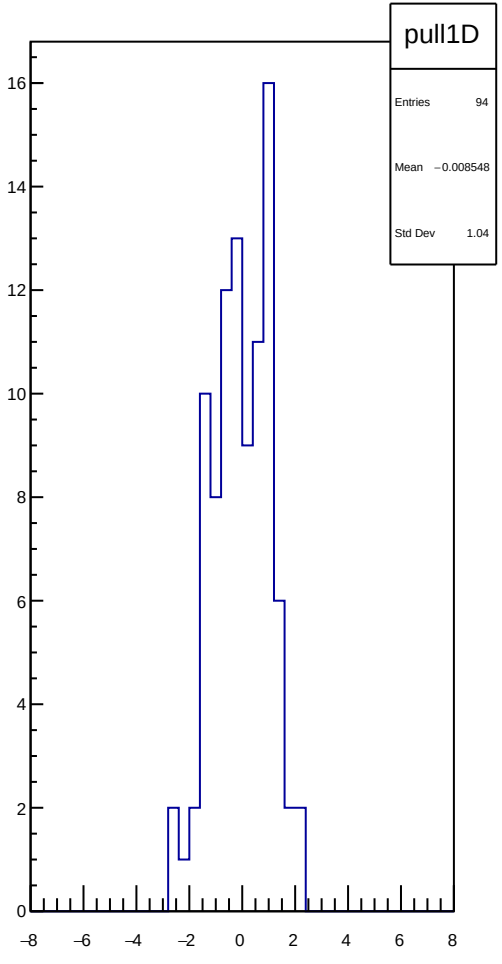

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 87.65 / 93
p0 1312 ± 0.988
1350
1340
1330
1320
1310
1300
1290
1280

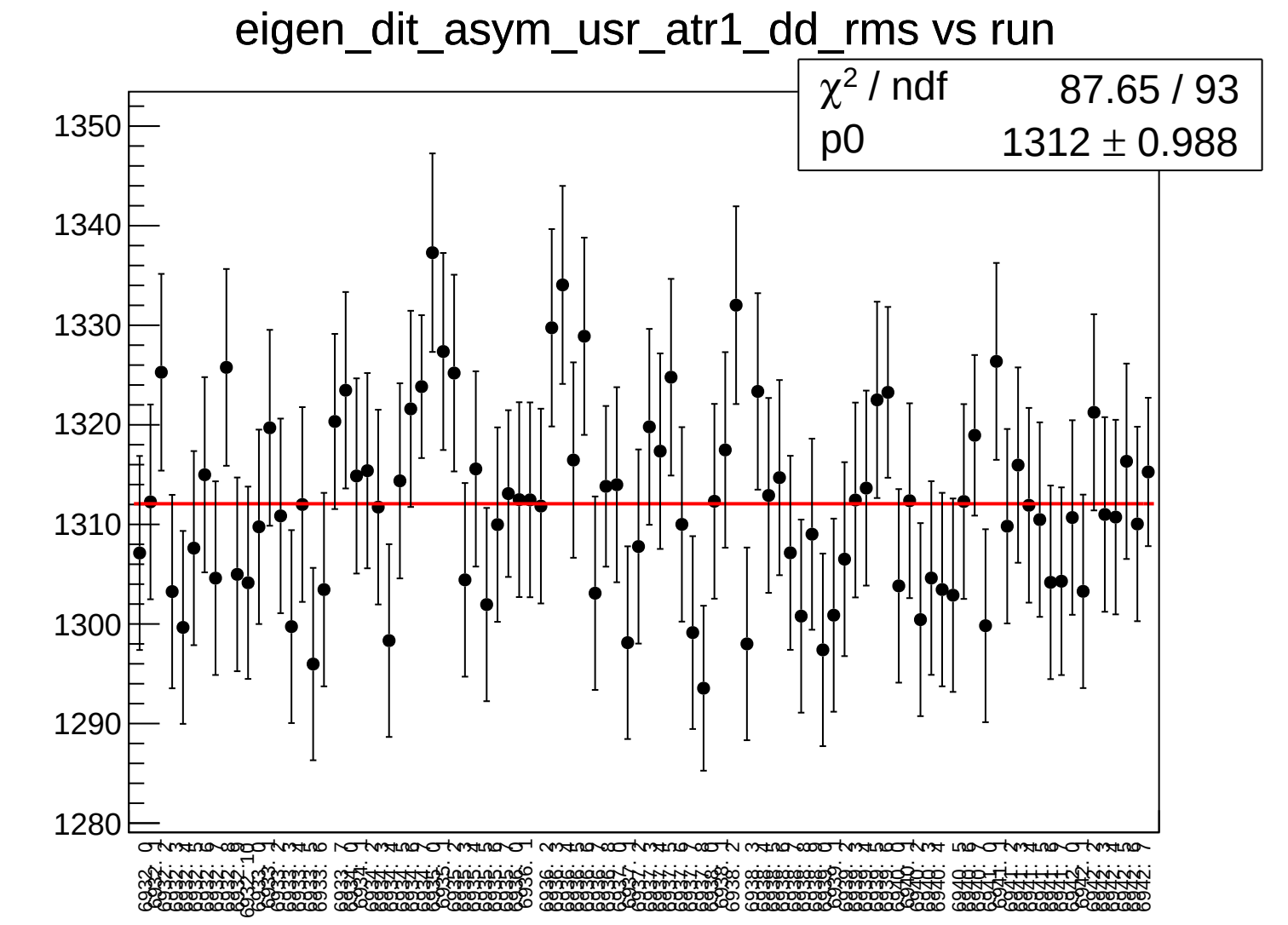

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 80.6 / 93
p0 670.9 ± 795.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 223.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

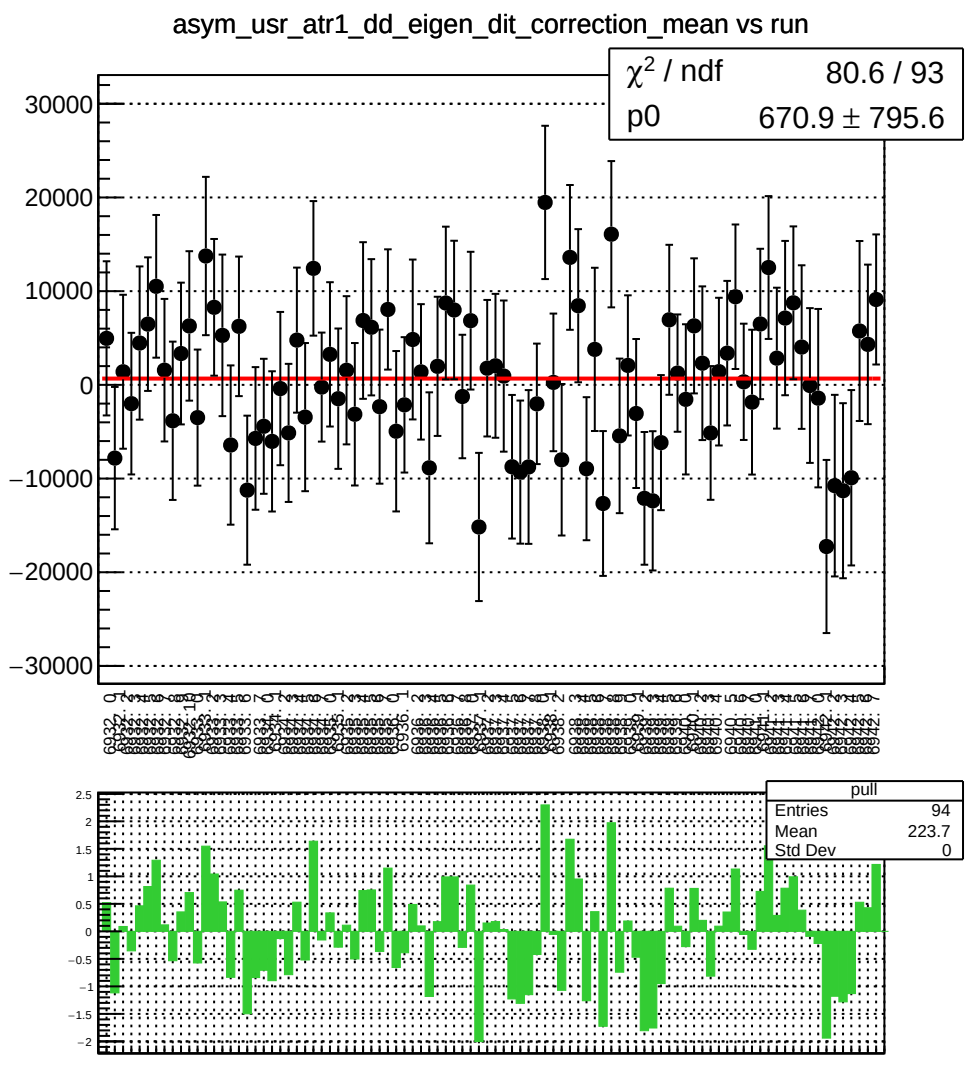

pull1D
Entries 94
Mean −0.006934
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

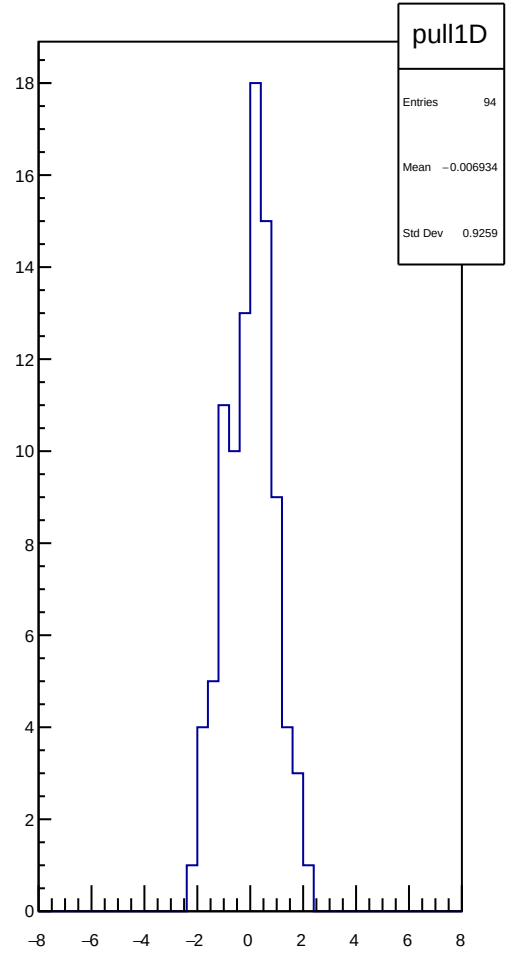

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 8862 / 93
p0 745.2 ± 0.5626
950
900
850
800
750
700
650

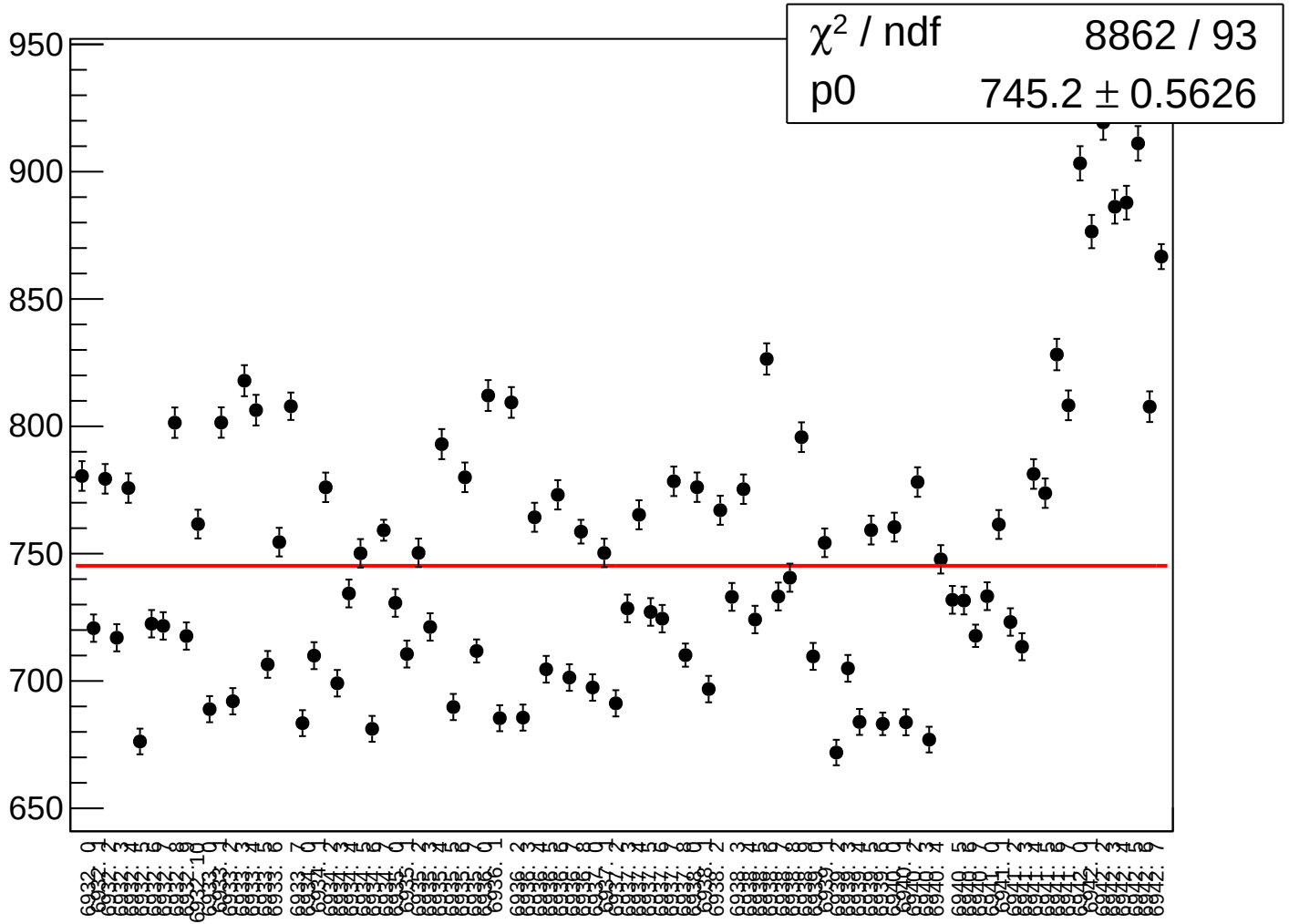

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 101.7 / 93
p0 1348 ± 1397
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 115.6
Std Dev 0
2
1
0
−1
−2

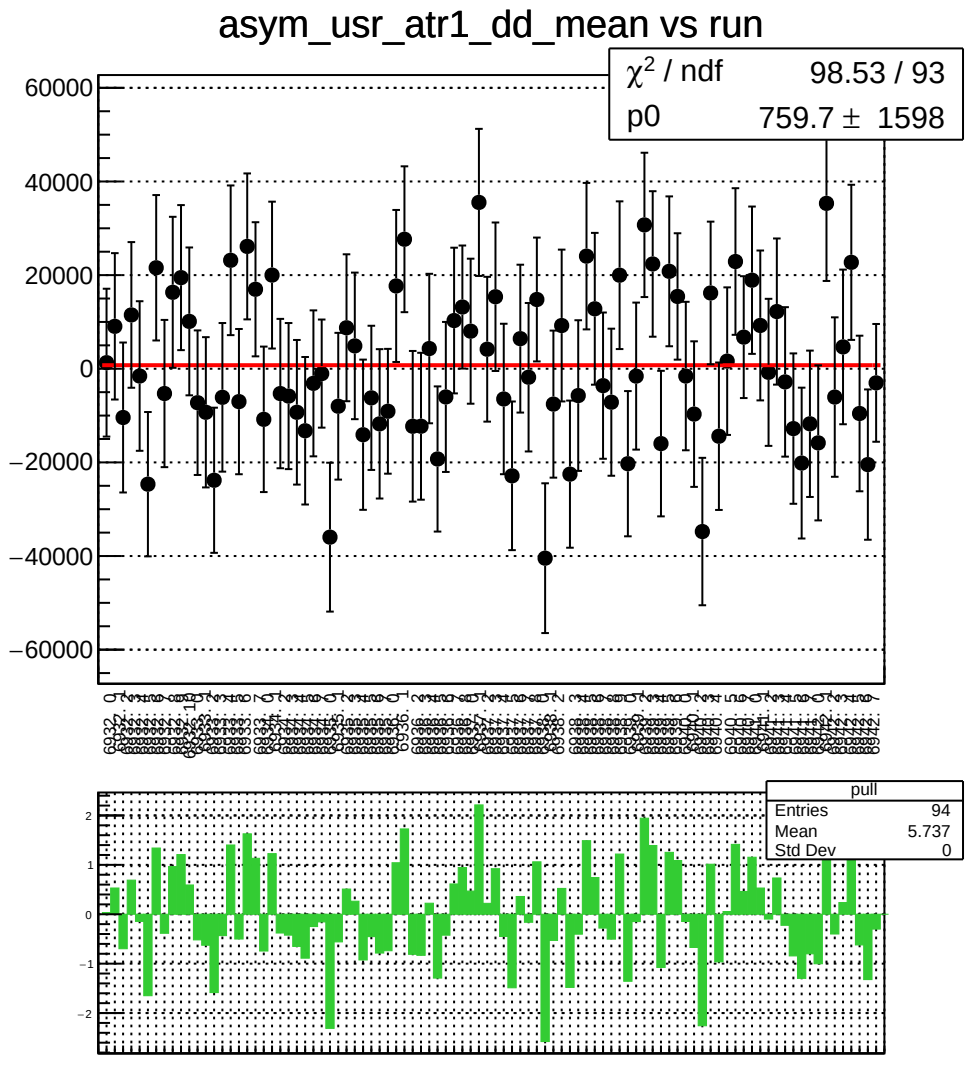

pull1D
Entries 94
Mean −0.008548
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

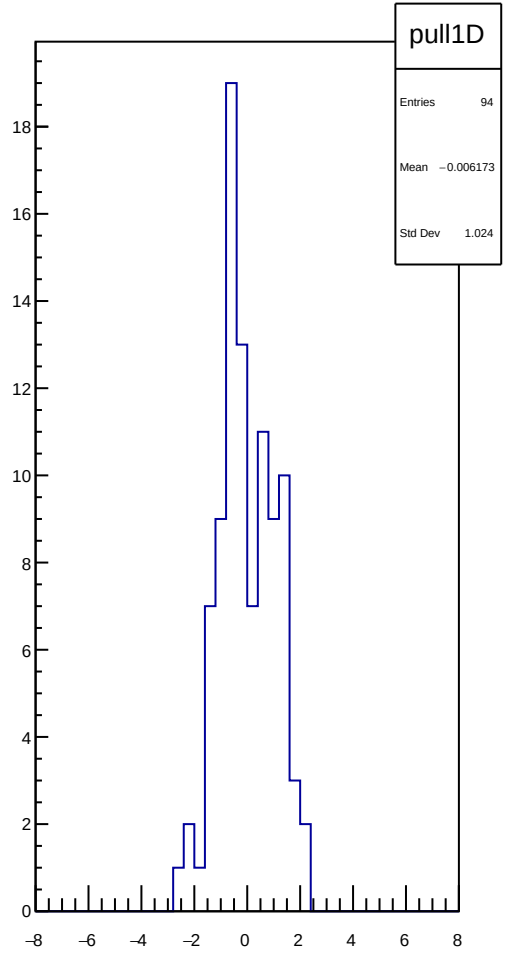

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 87.65 / 93
p0 1312 ± 0.988
1350
1340
1330
1320
1310
1300
1290
1280

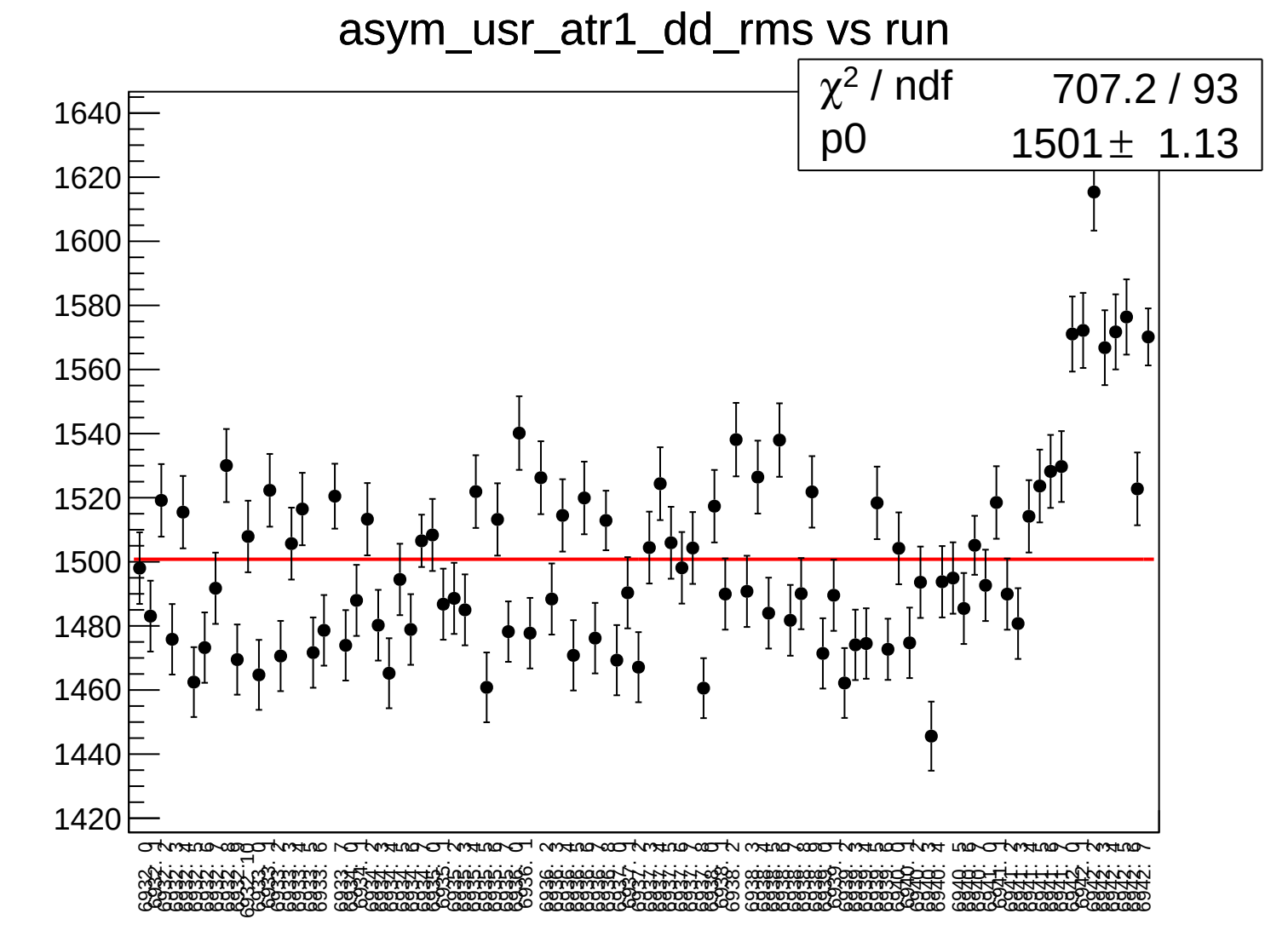

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.6 / 93
p0 670.9 ± 795.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 223.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

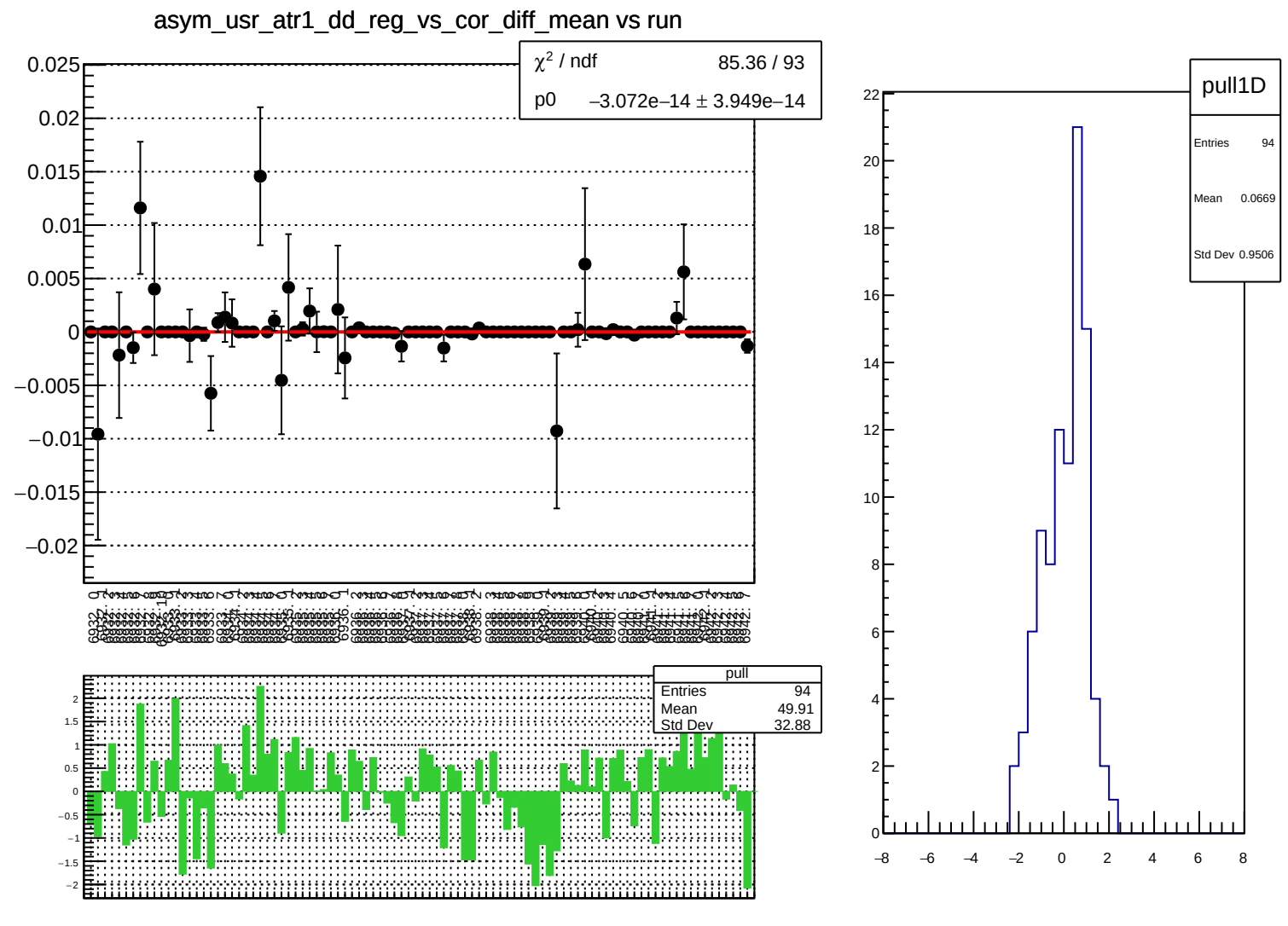

pull1D
Entries 94
Mean −0.006934
Std Dev 0.9259
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

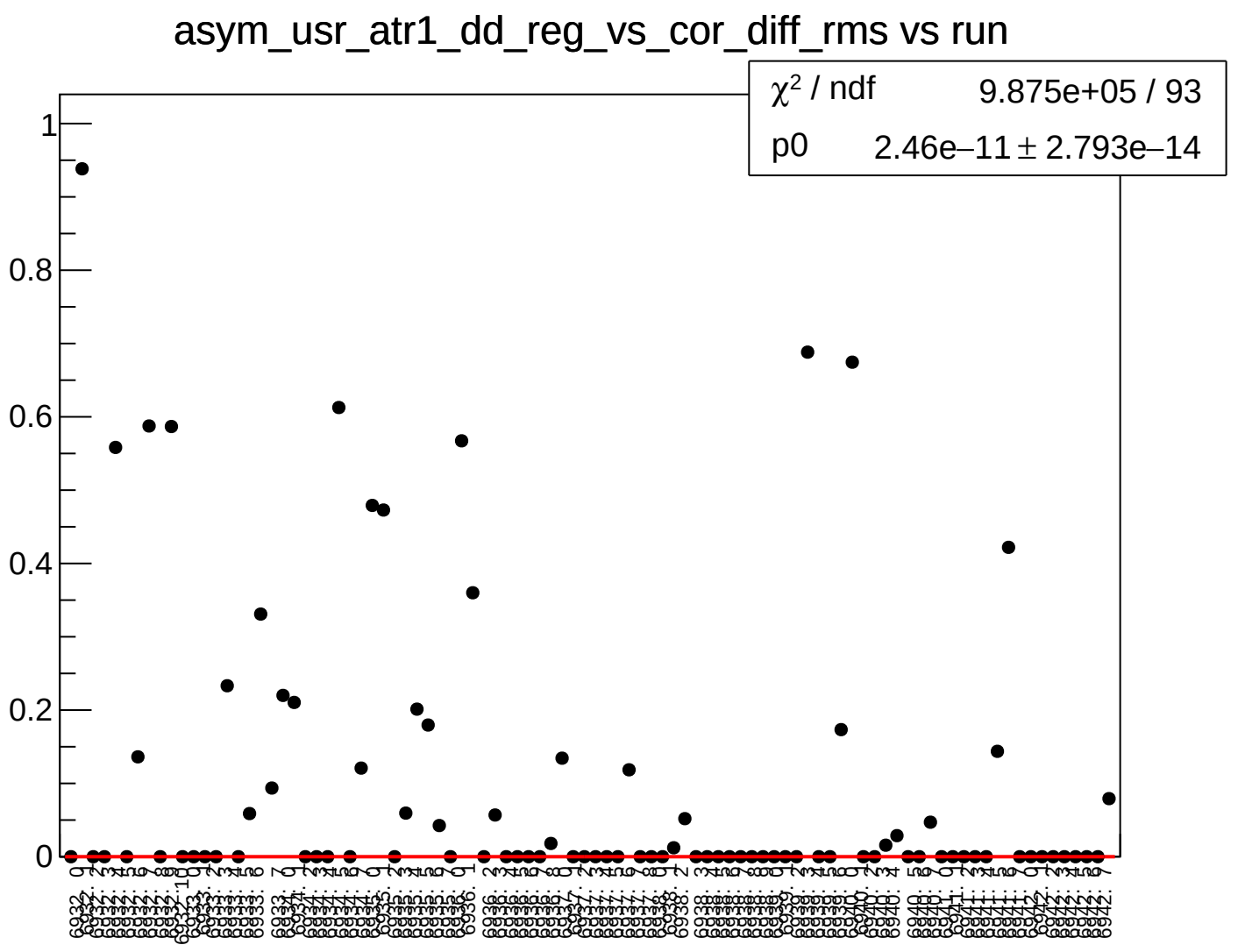

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8862 / 93
p0 745.2 ± 0.5626
950
900
850
800
750
700
650

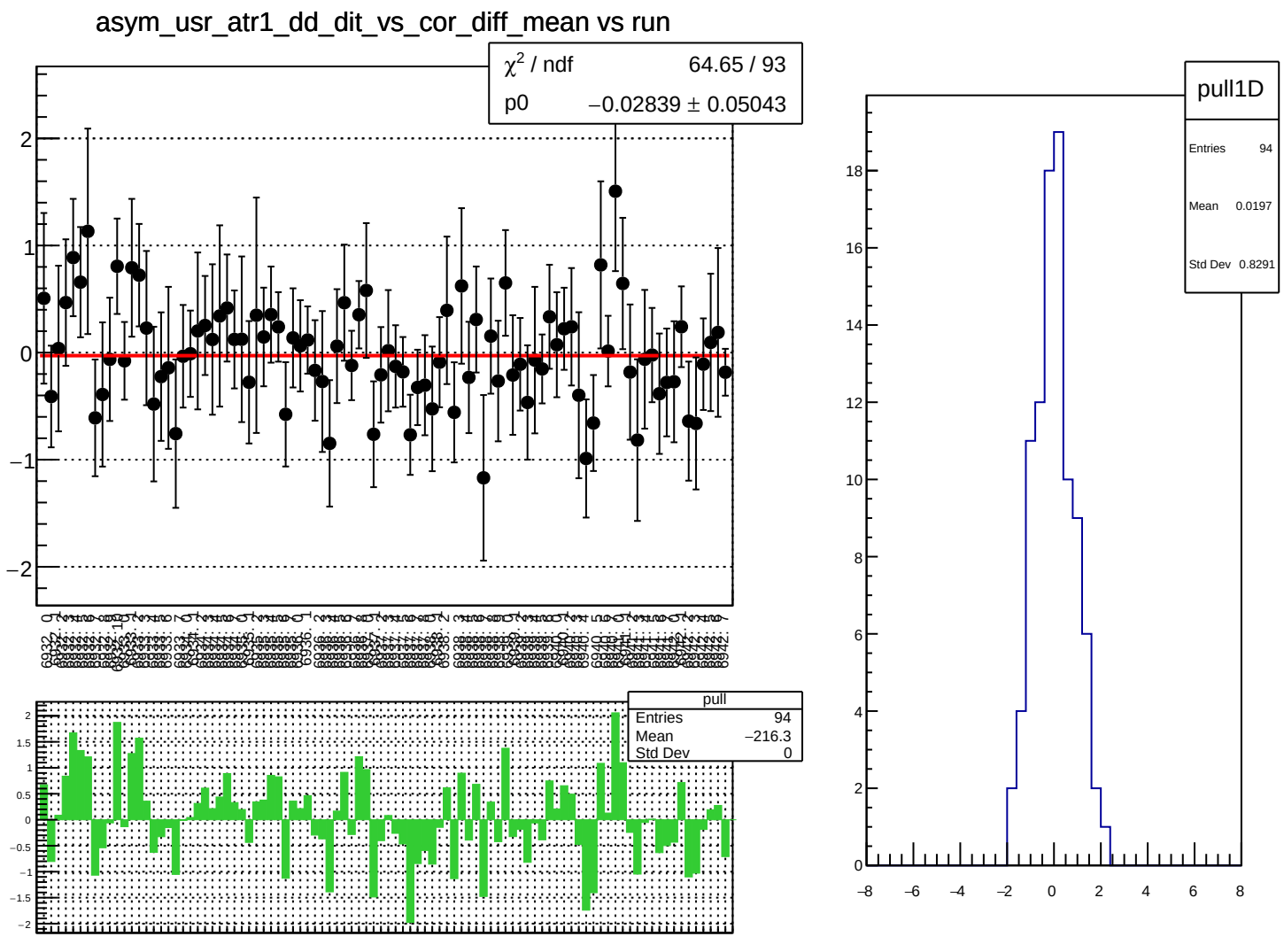

asym_usr_atr1_dd_mean vs run
χ² / ndf 98.53 / 93
p0 759.7 ± 1598
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 5.737
Std Dev 0
2
1
0
−1
−2

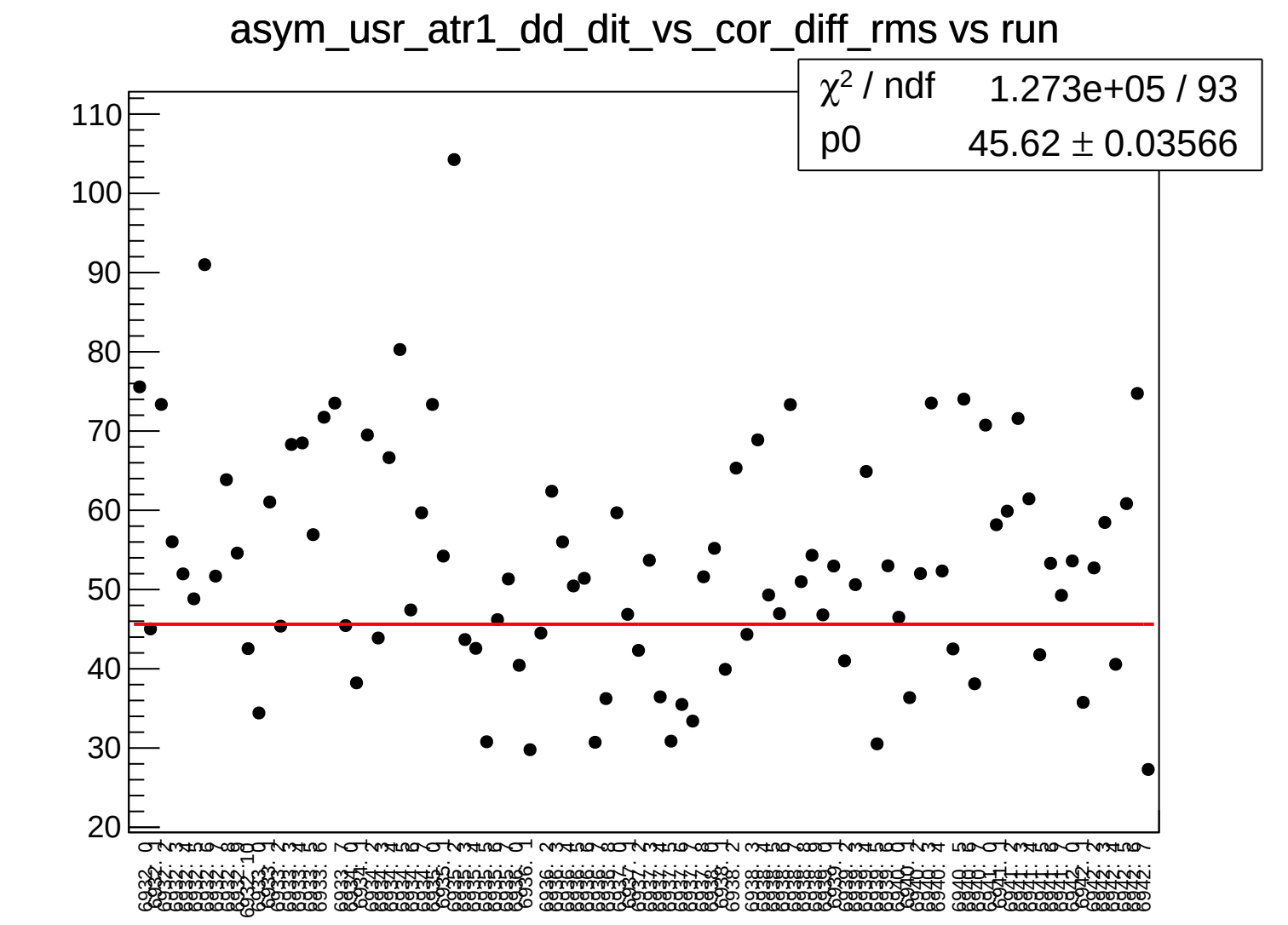

pull1D
Entries 94
Mean −0.006173
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

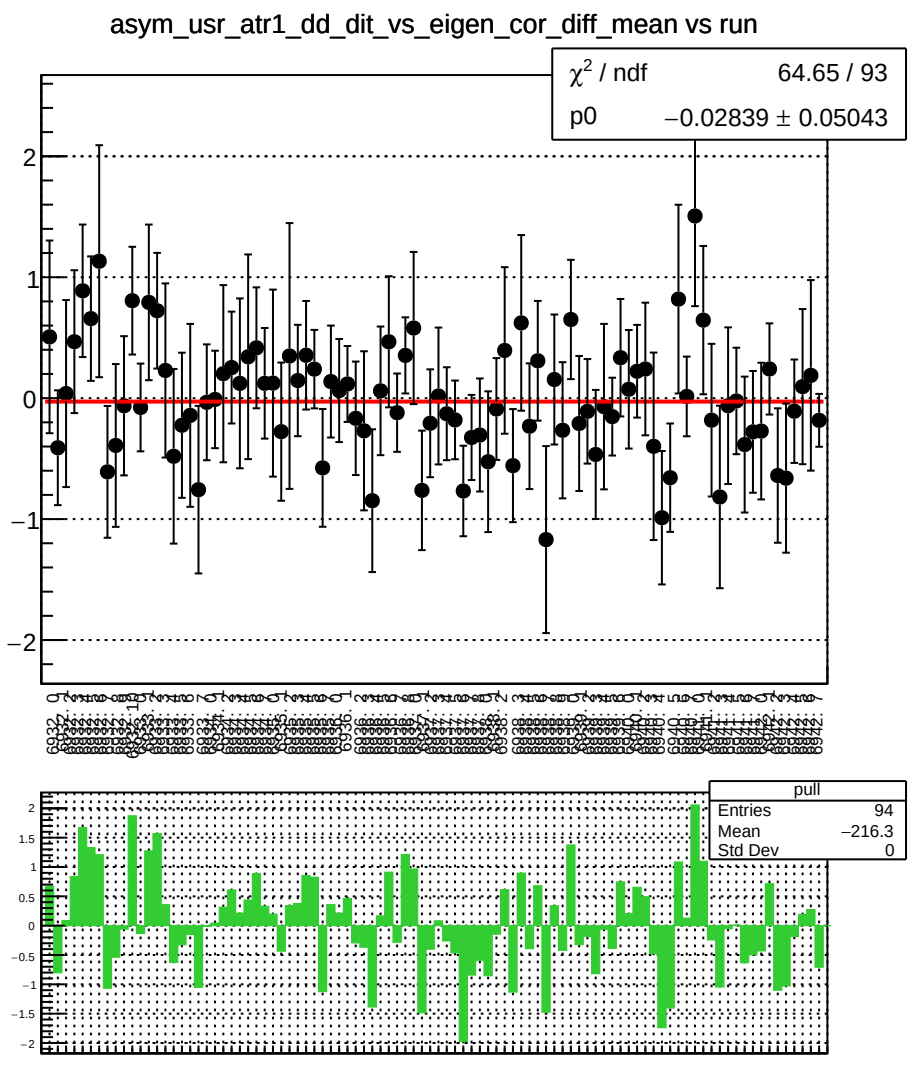

asym_usr_atr1_dd_rms vs run
χ² / ndf 707.2 / 93
p0 1501 ± 1.13
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

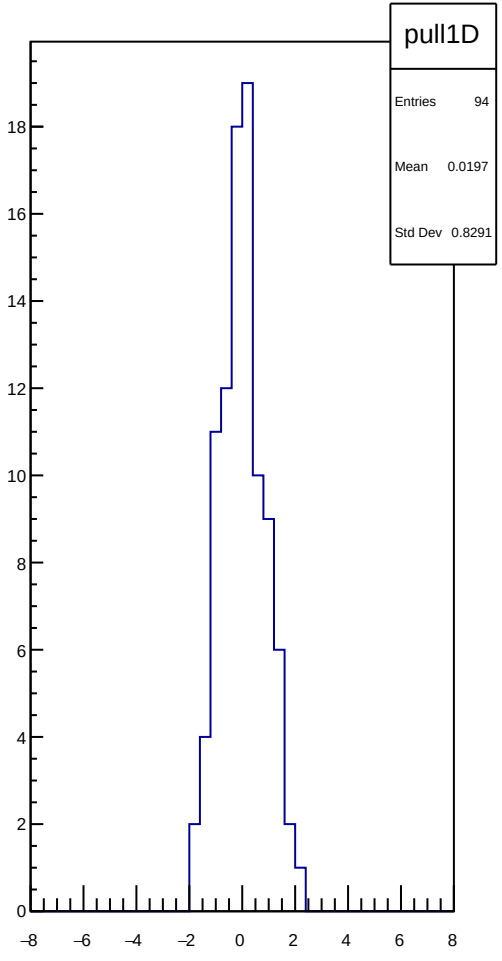

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.36 / 93
p0 −3.072e−14 ± 3.949e−14
pull
Entries 94
Mean 49.91
Std Dev 32.88
pull1D
Entries 94
Mean 0.0669
Std Dev 0.9506

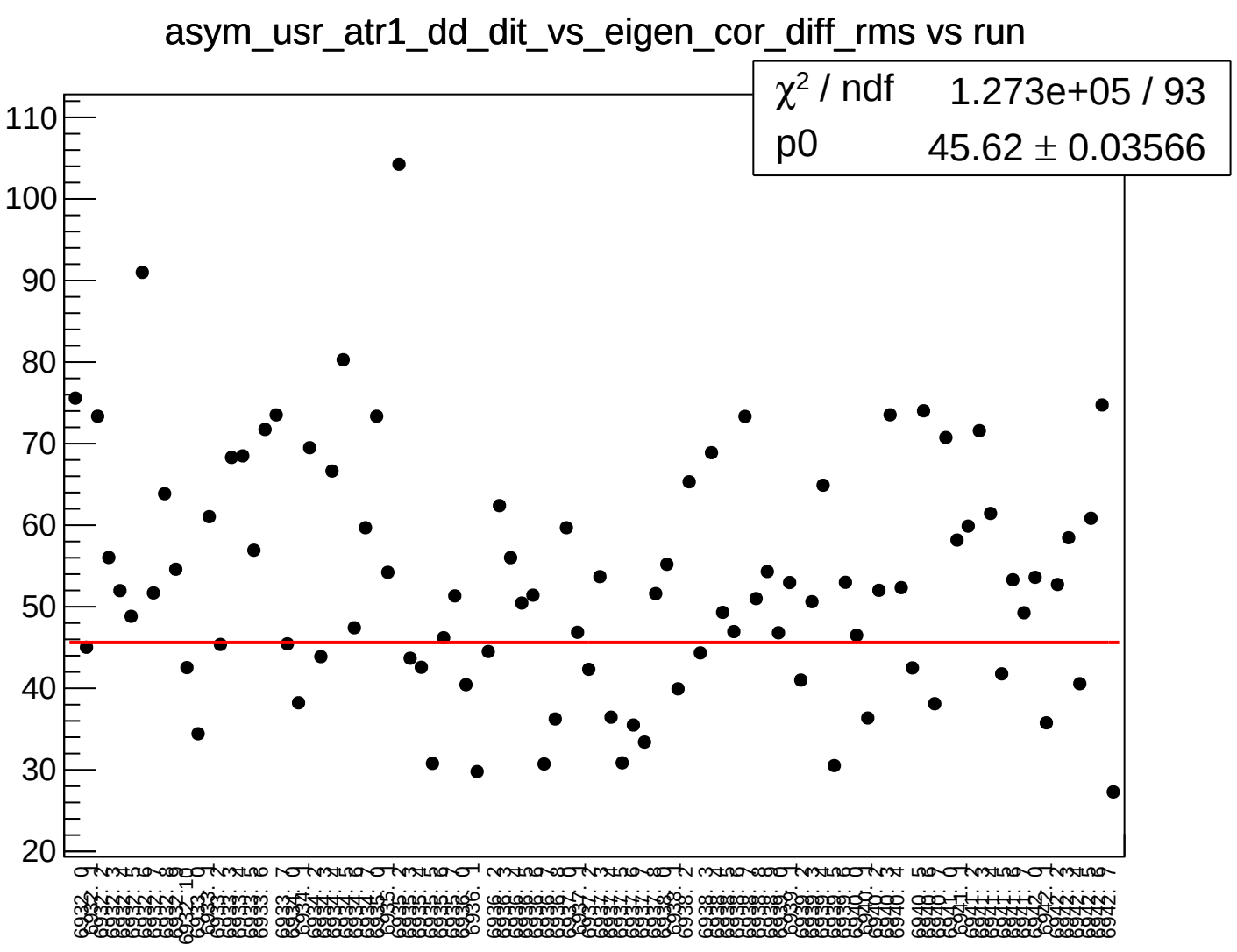

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.875e+05 / 93
p0 2.46e−11 ± 2.793e−14
1
0.8
0.6
0.4
0.2
0

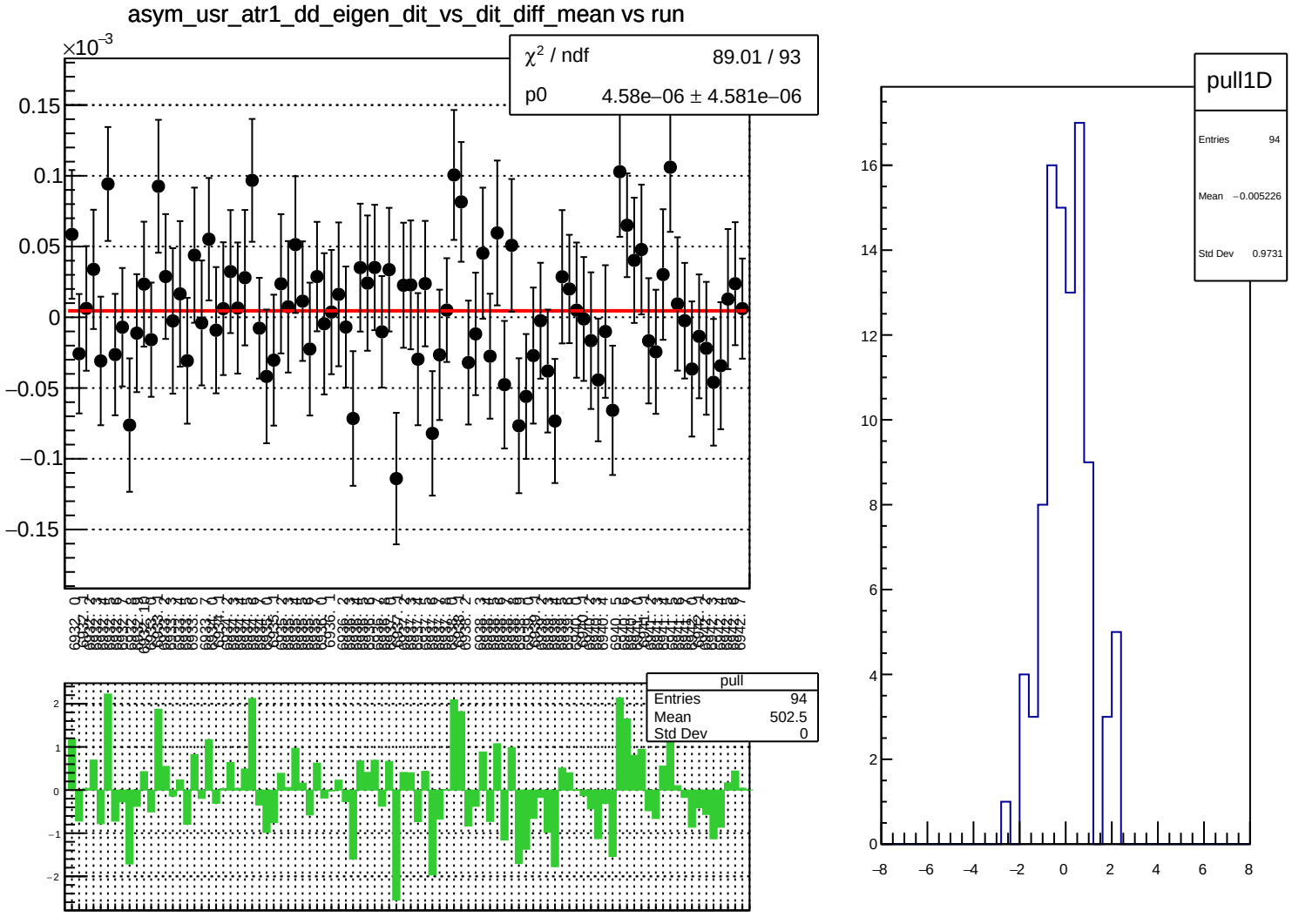

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 64.65 / 93
p0 −0.02839 ± 0.05043
pull
Entries 94
Mean −216.3
Std Dev 0
pull1D
Entries 94
Mean 0.0197
Std Dev 0.8291

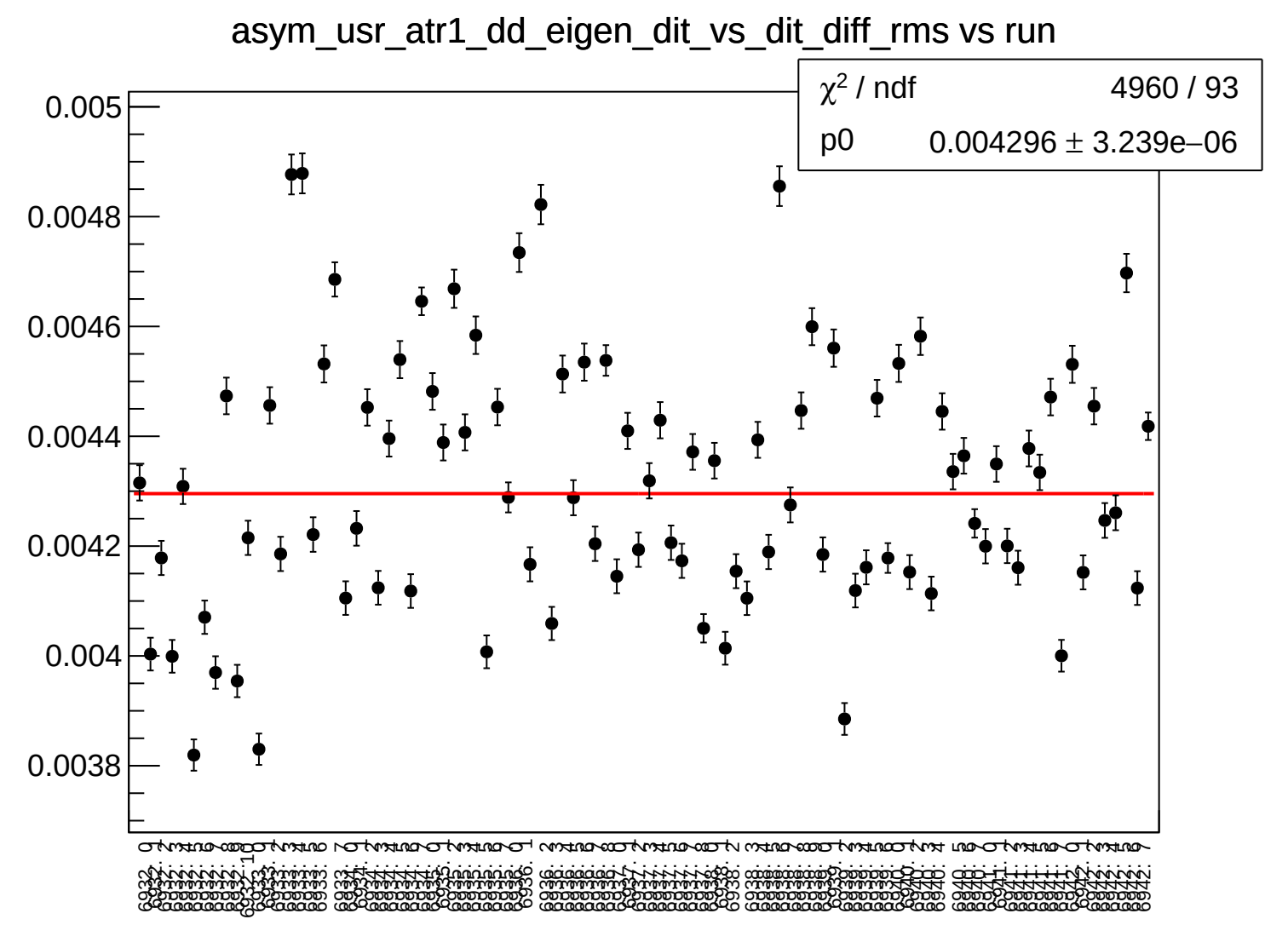

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 93
p0 45.62 ± 0.03566
110
100
90
80
70
60
50
40
30
20

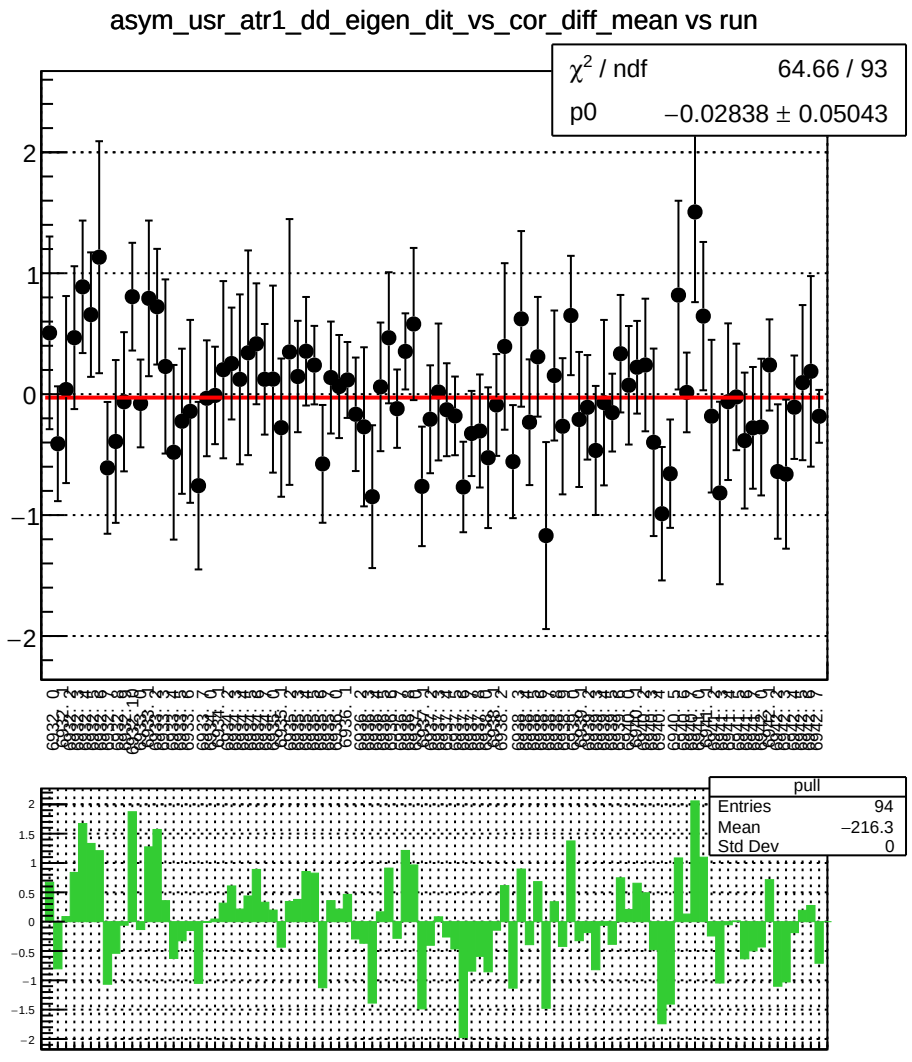

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.65 / 93
p0 −0.02839 ± 0.05043
pull
Entries 94
Mean −216.3
Std Dev 0

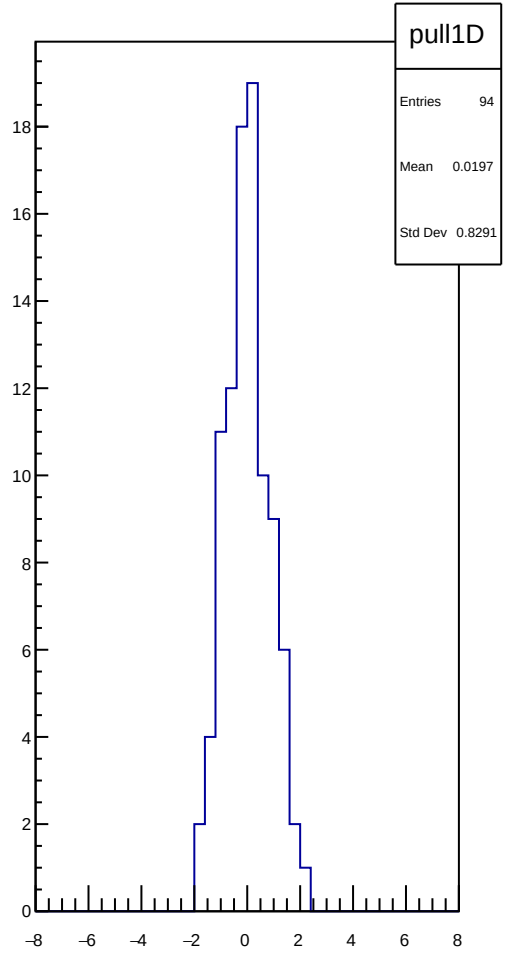

pull1D
Entries 94
Mean 0.0197
Std Dev 0.8291

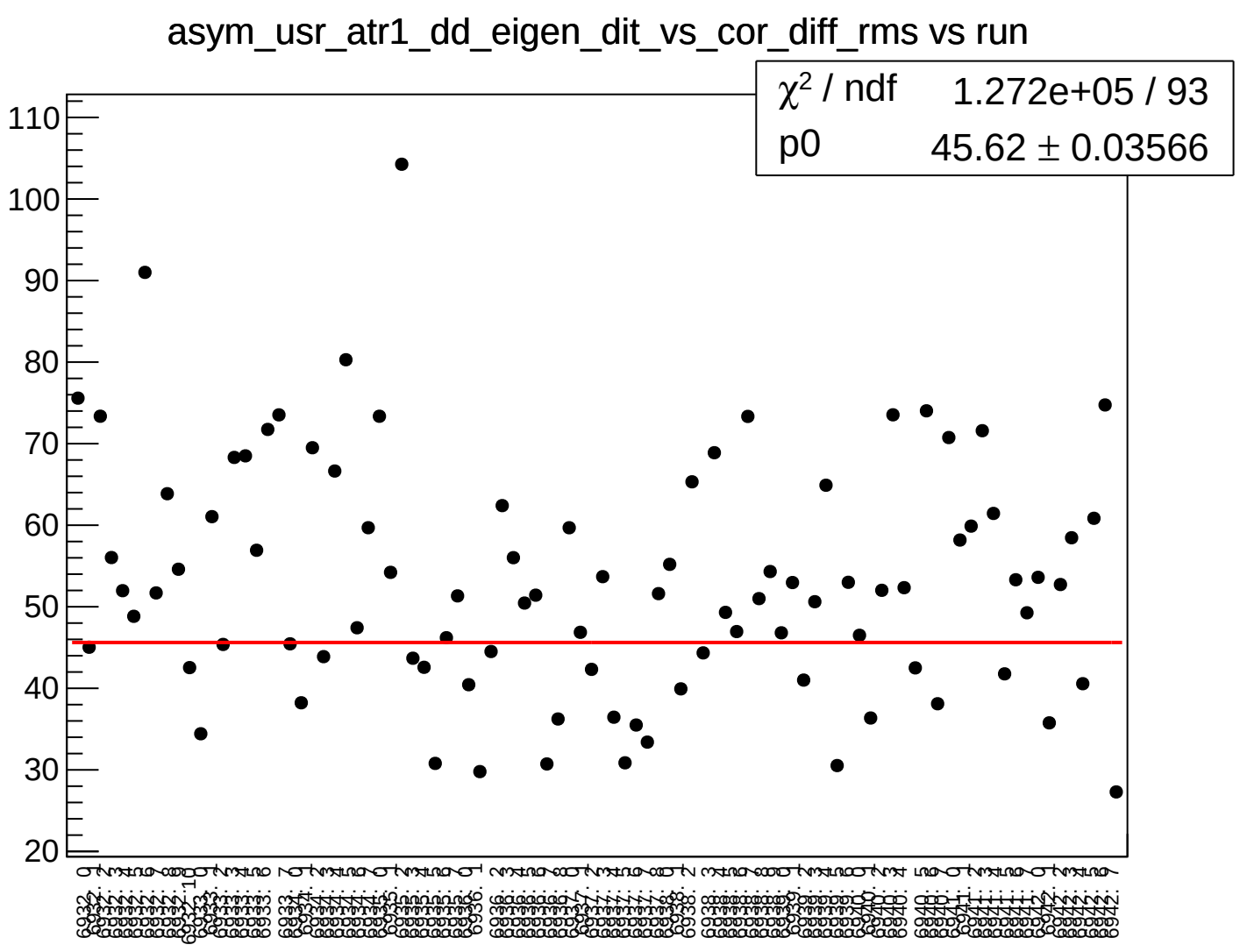

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.273e+05 / 93
p0 45.62 ± 0.03566
110
100
90
80
70
60
50
40
30
20

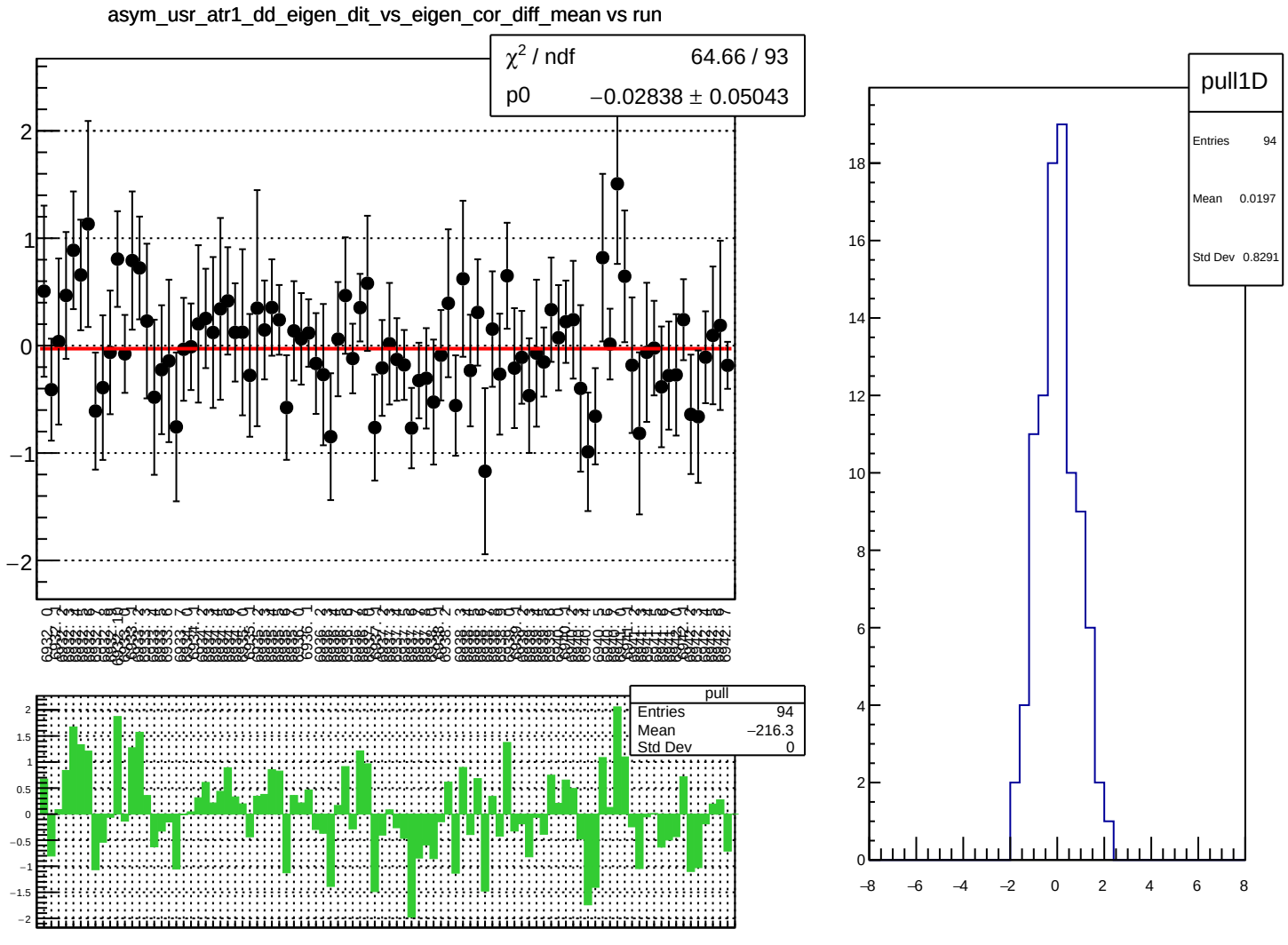

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.01 / 93
p0 4.58e−06 ± 4.581e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 502.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005226
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

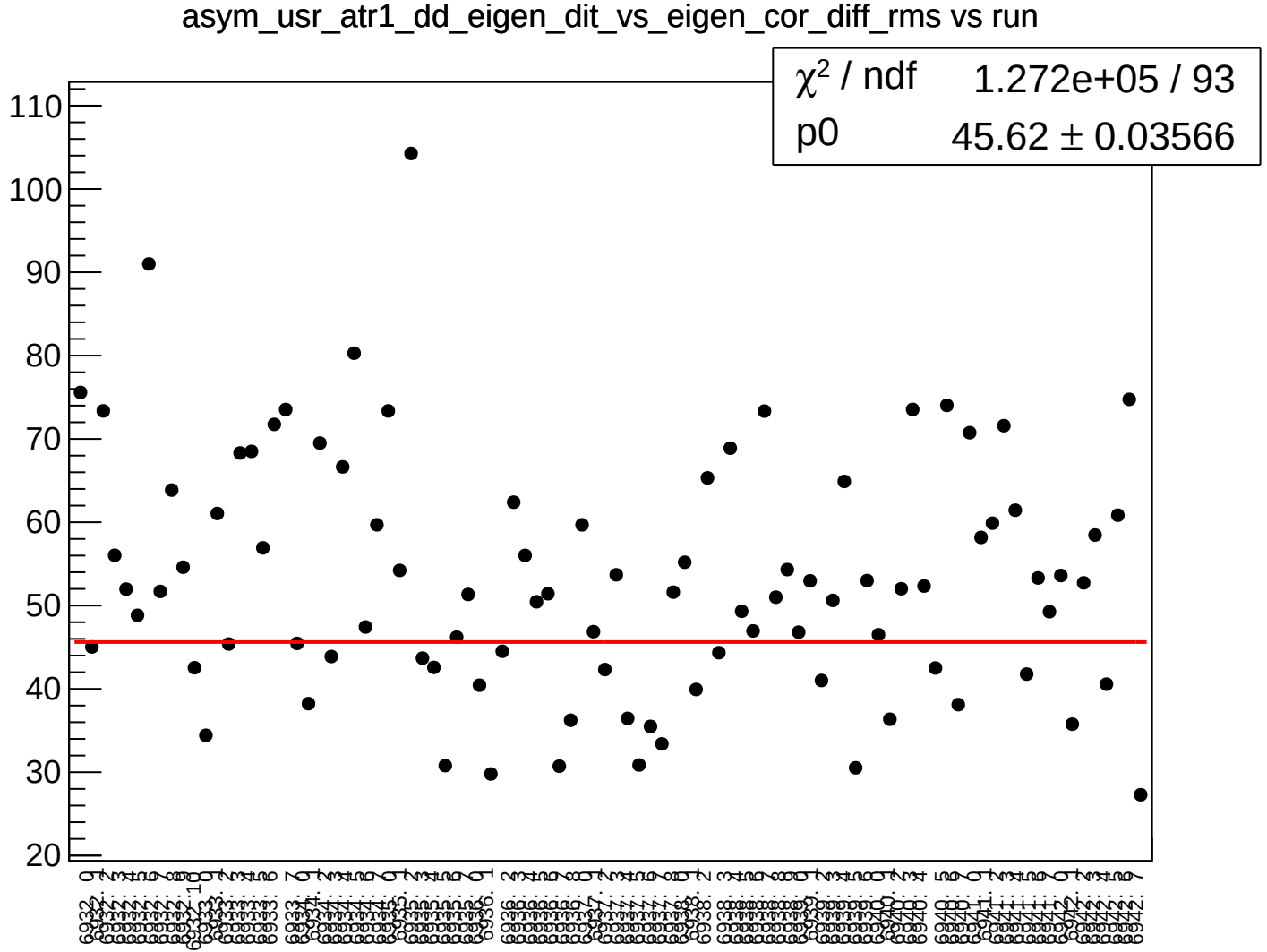

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4960 / 93
p0 0.004296 ± 3.239e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

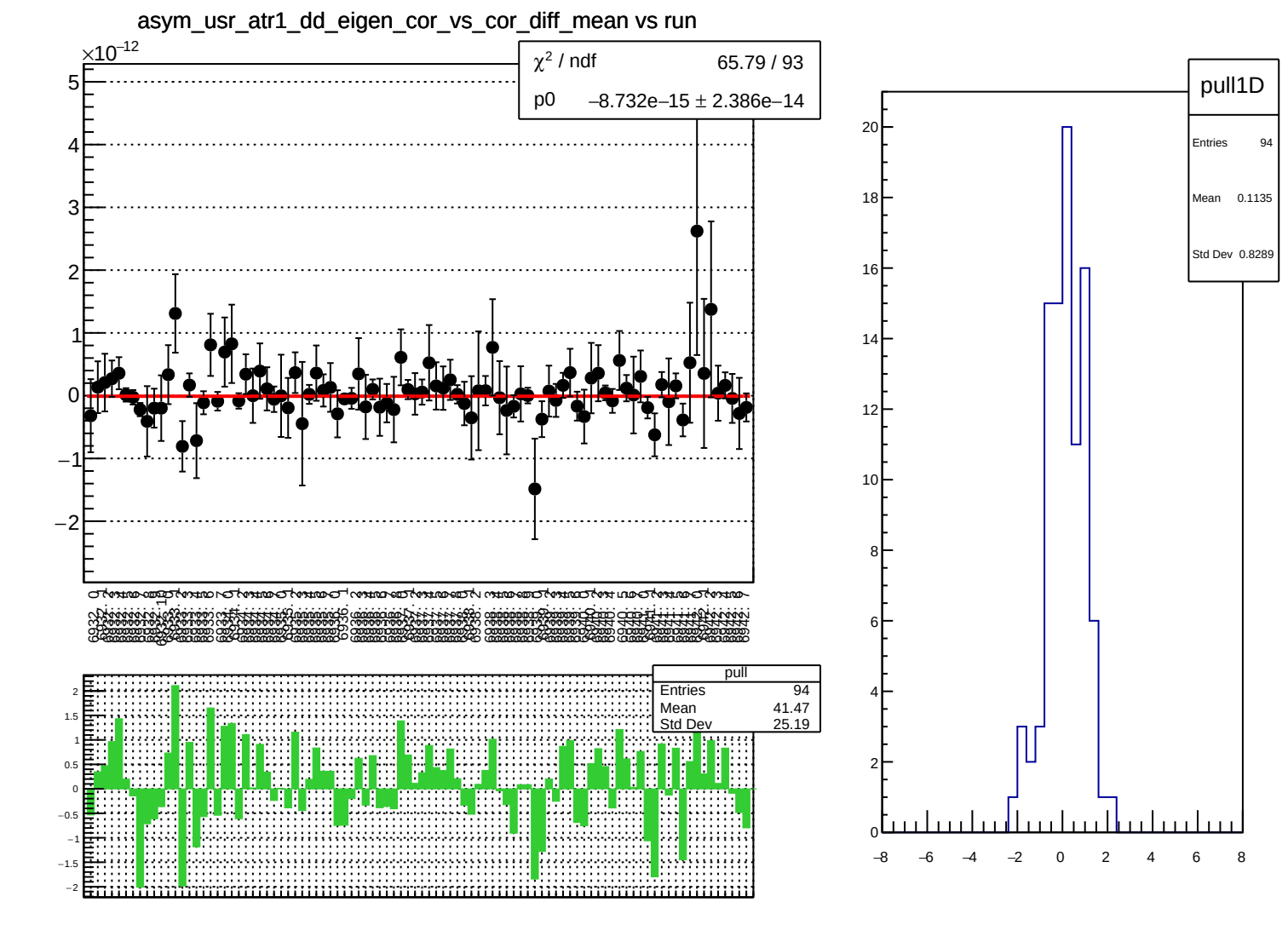

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 64.66 / 93
p0 −0.02838 ± 0.05043
pull
Entries 94
Mean −216.3
Std Dev 0

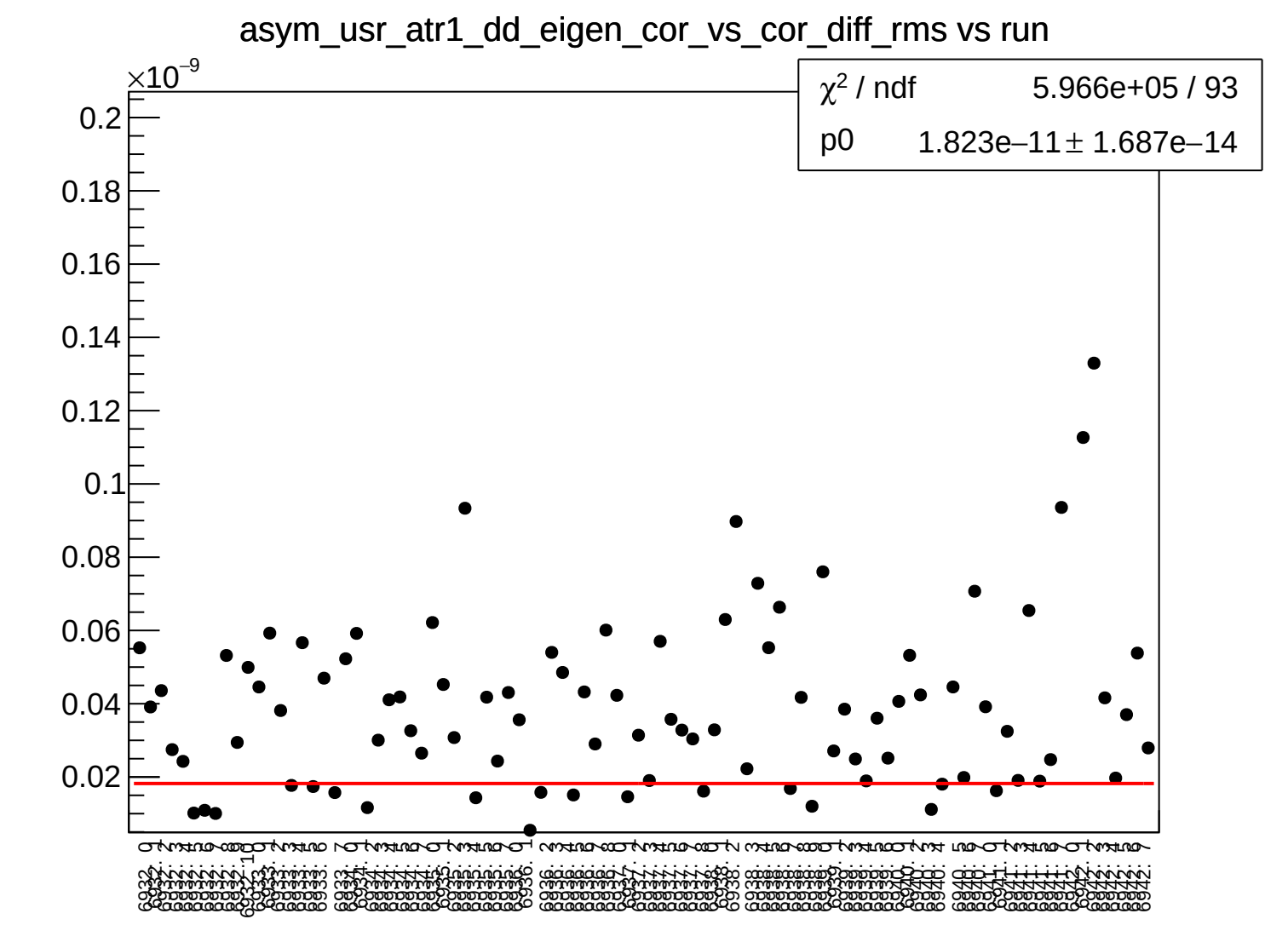

pull1D
Entries 94
Mean 0.0197
Std Dev 0.8291

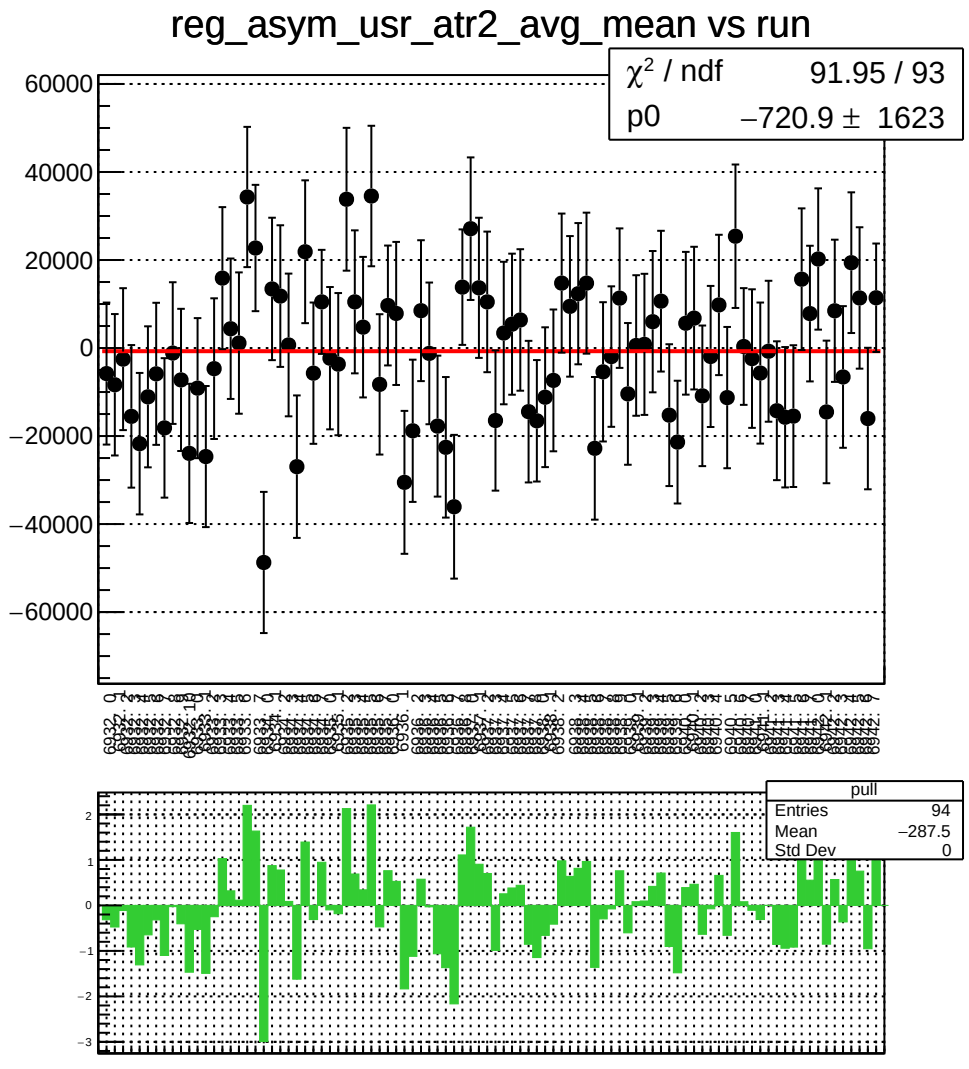

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 93
p0 45.62 ± 0.03566
110
100
90
80
70
60
50
40
30
20

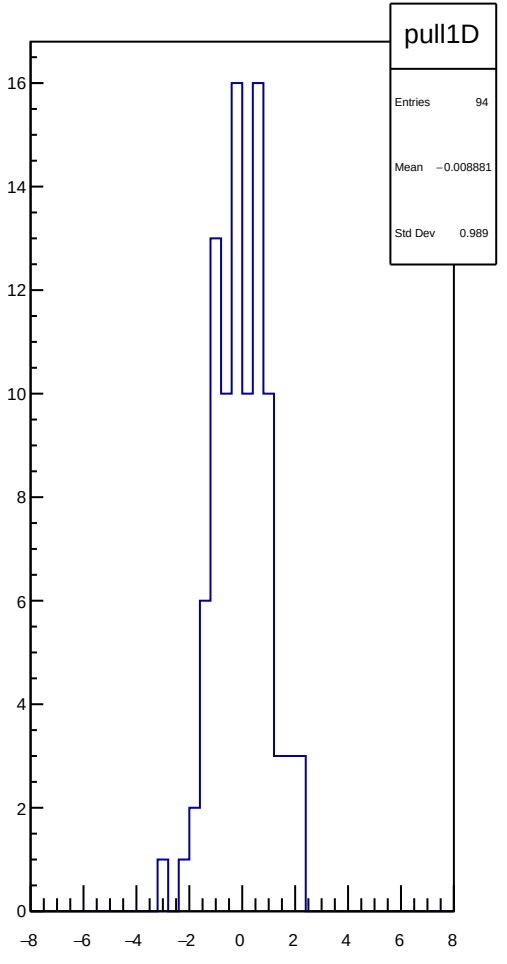

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 64.66 / 93
p0 −0.02838 ± 0.05043
pull
Entries 94
Mean −216.3
Std Dev 0
pull1D
Entries 94
Mean 0.0197
Std Dev 0.8291

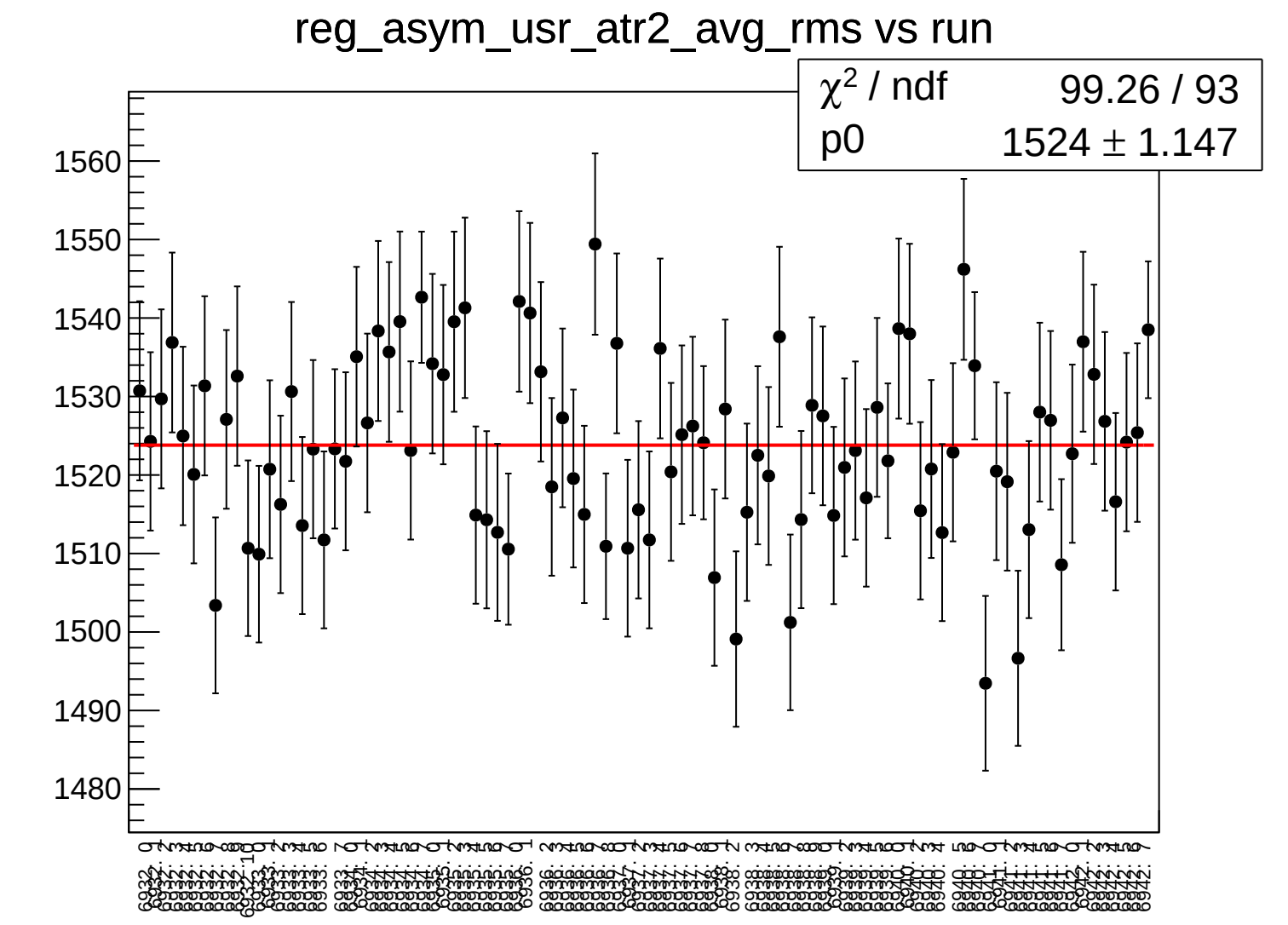

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.272e+05 / 93
p0 45.62 ± 0.03566
110
100
90
80
70
60
50
40
30
20

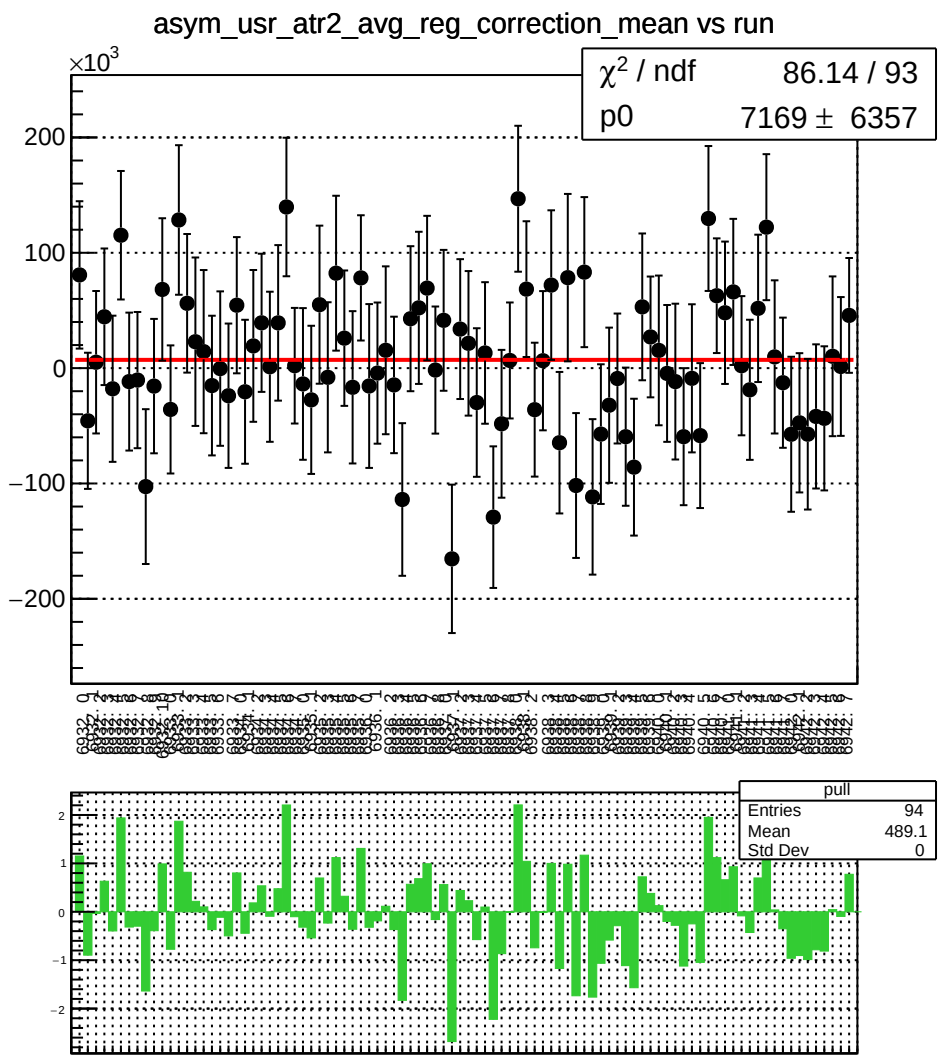

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 65.79 / 93
p0 −8.732e−15 ± 2.386e−14
pull
Entries 94
Mean 41.47
Std Dev 25.19
pull1D
Entries 94
Mean 0.1135
Std Dev 0.8289

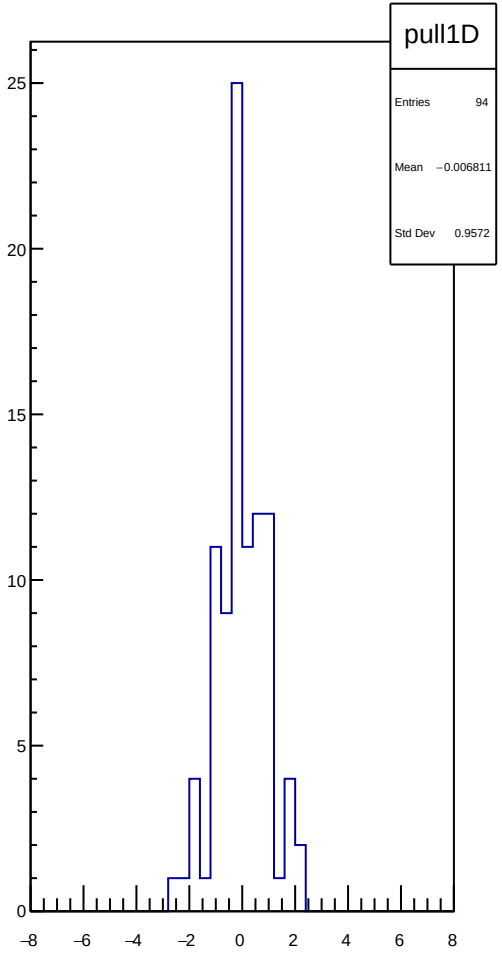

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.966e+05 / 93
p0 1.823e−11 ± 1.687e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

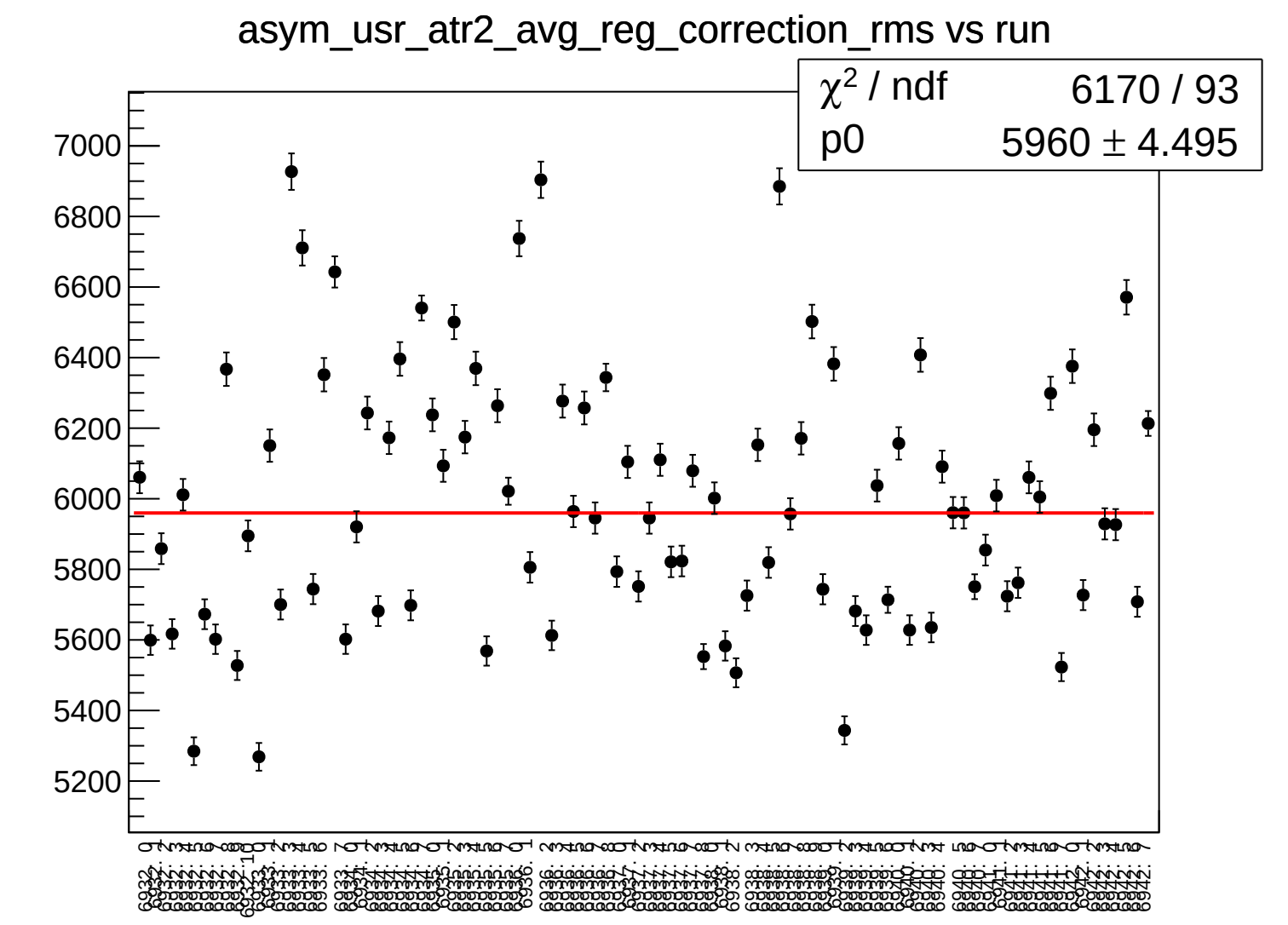

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.95 / 93
p0 −720.9 ± 1623
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −287.5
Std Dev 0
2
1
0
−1
−2
−3

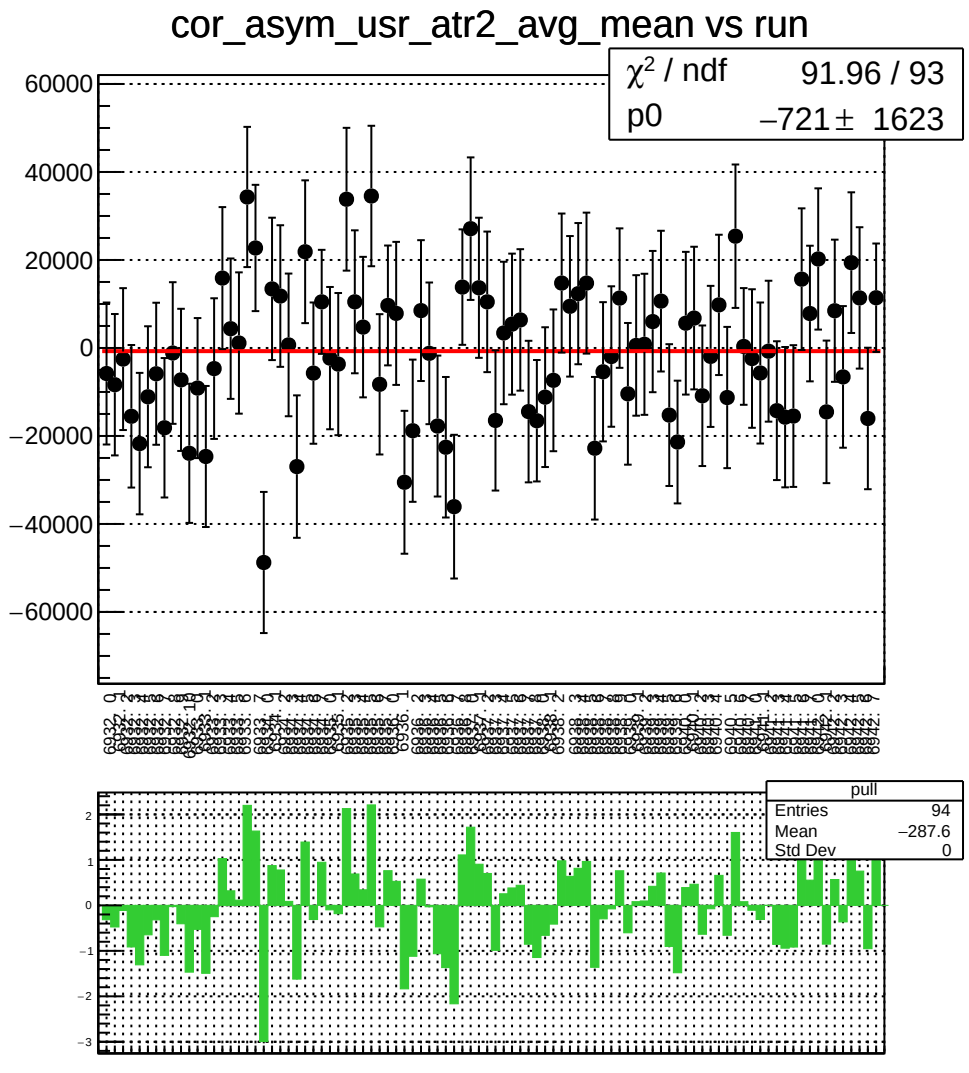

pull1D
Entries 94
Mean −0.008881
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

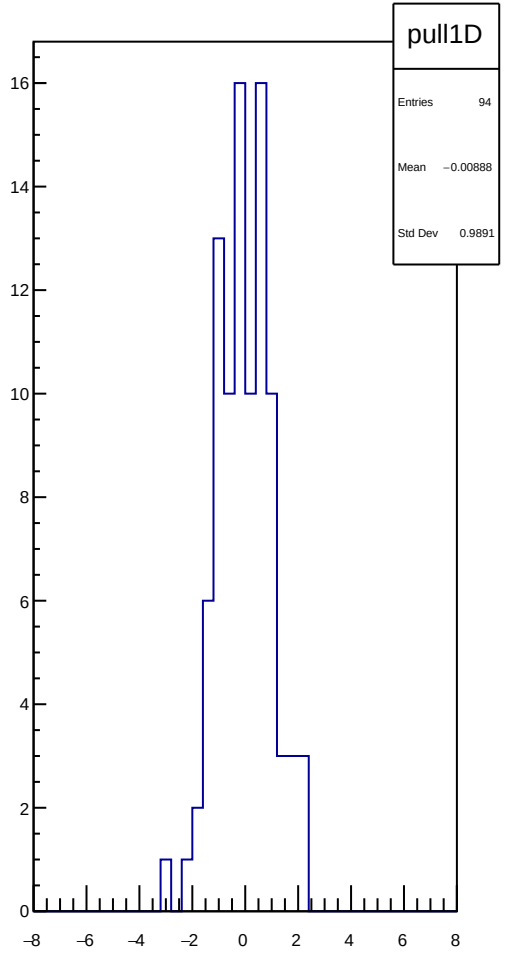

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 99.26 / 93
p0 1524 ± 1.147
1560
1550
1540
1530
1520
1510
1500
1490
1480

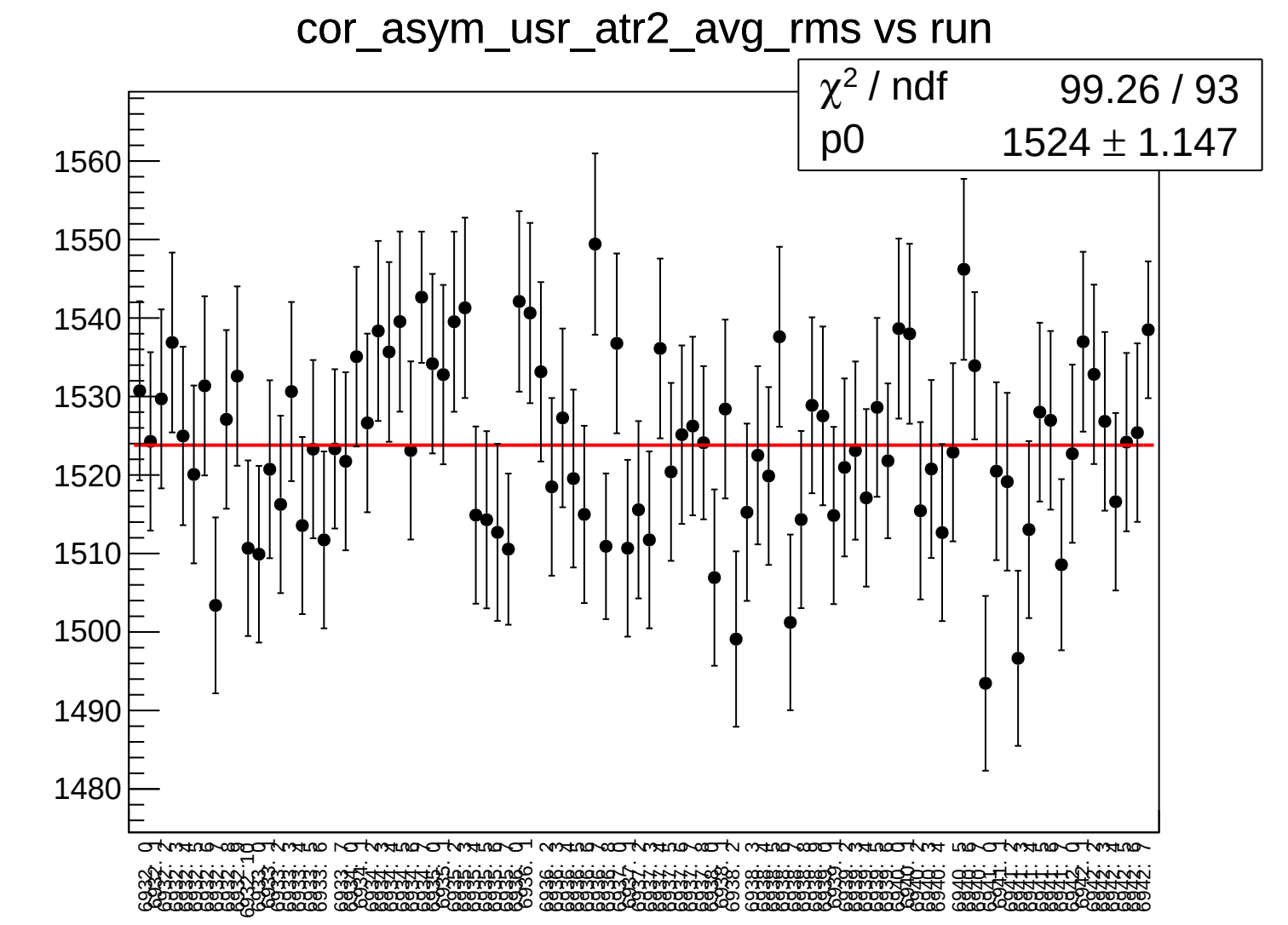

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.14 / 93
p0 7169 ± 6357
200
100
0
−100
−200
pull
Entries 94
Mean 489.1
Std Dev 0
2
1
0
−1
−2

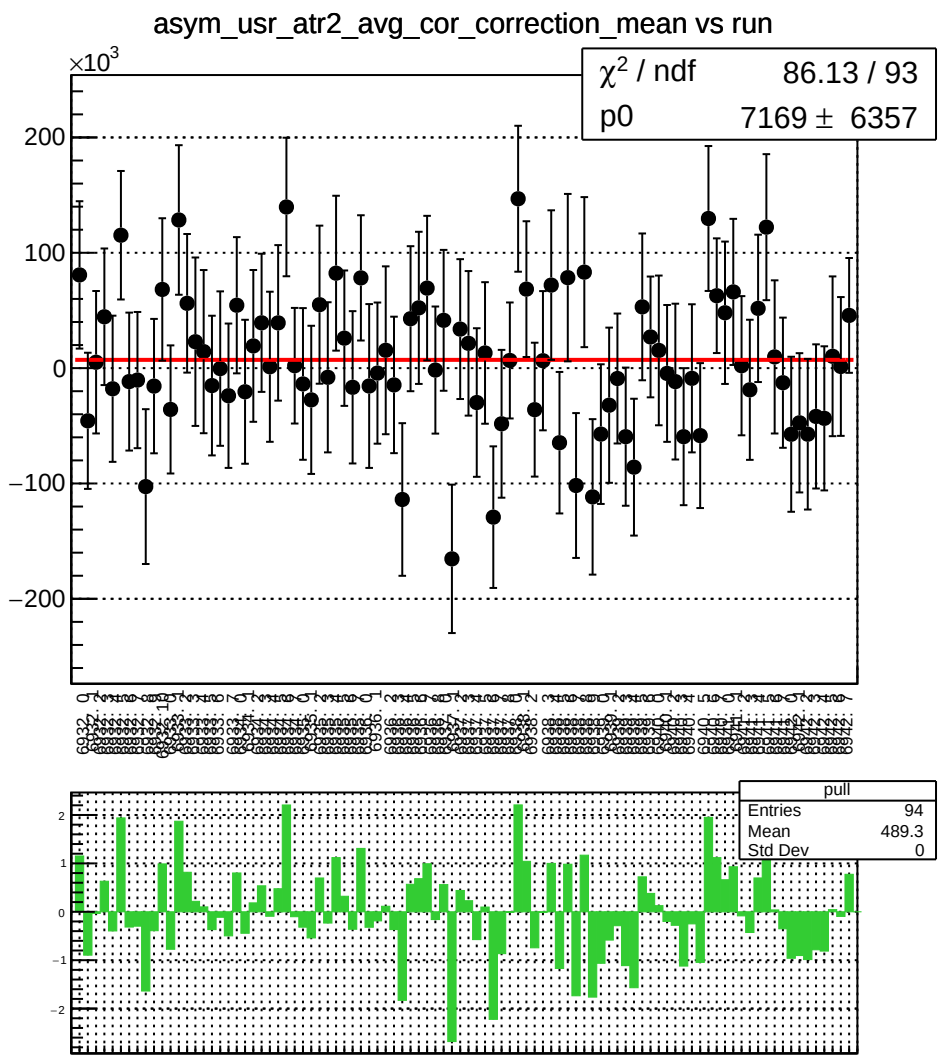

pull1D
Entries 94
Mean −0.006811
Std Dev 0.9572
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

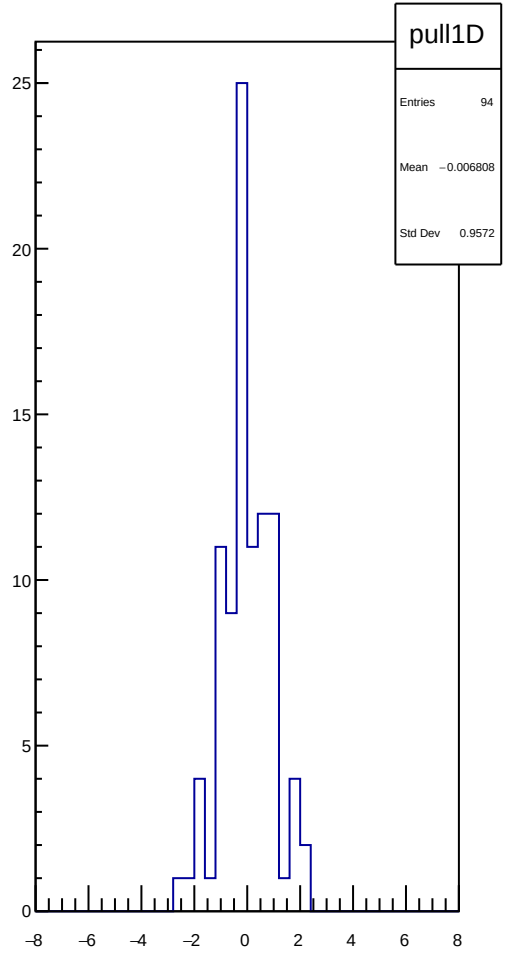

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 6170 / 93
p0 5960 ± 4.495
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

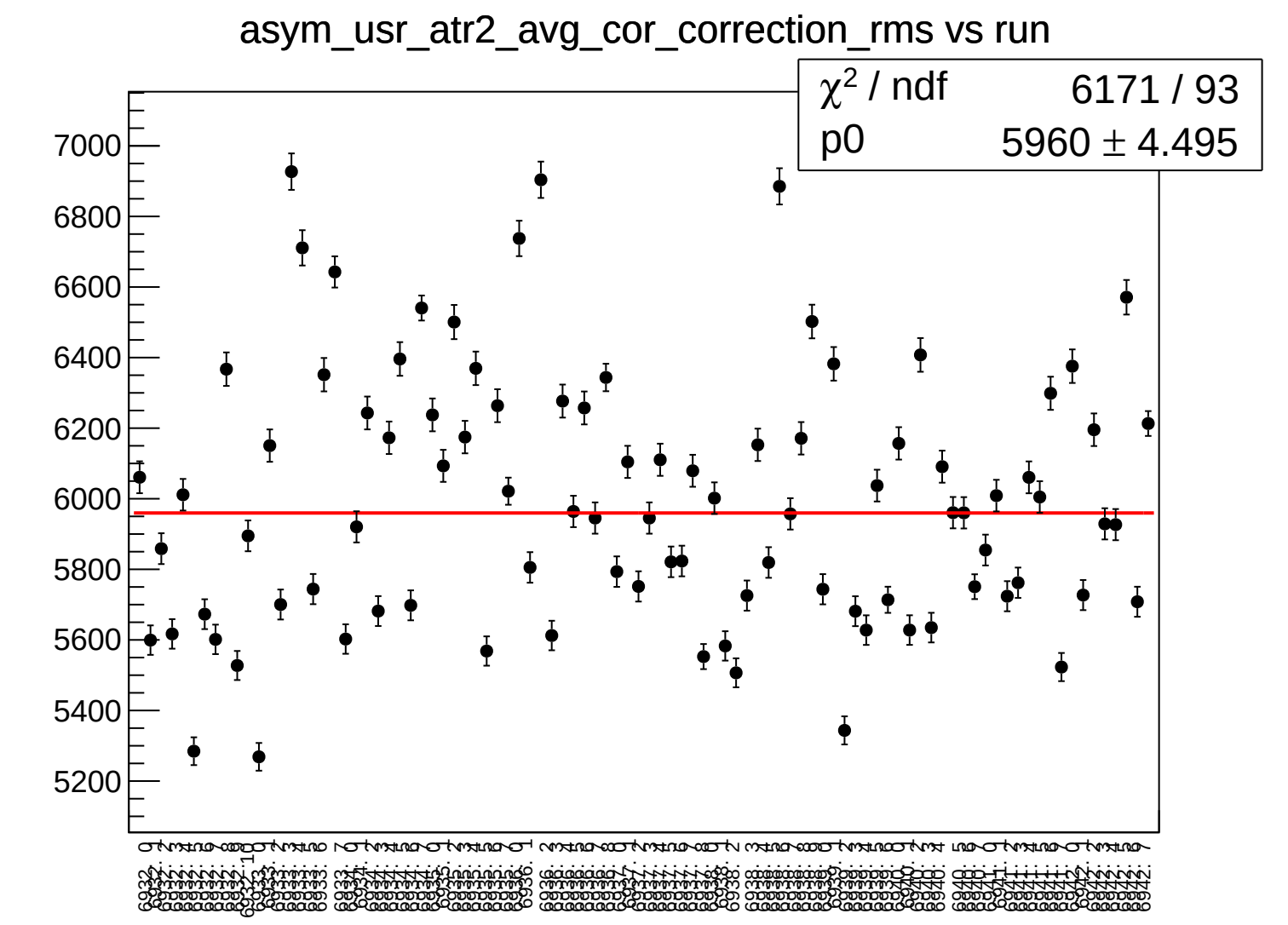

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.96 / 93
p0 −721 ± 1623
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −287.6
Std Dev 0
2
1
0
−1
−2
−3

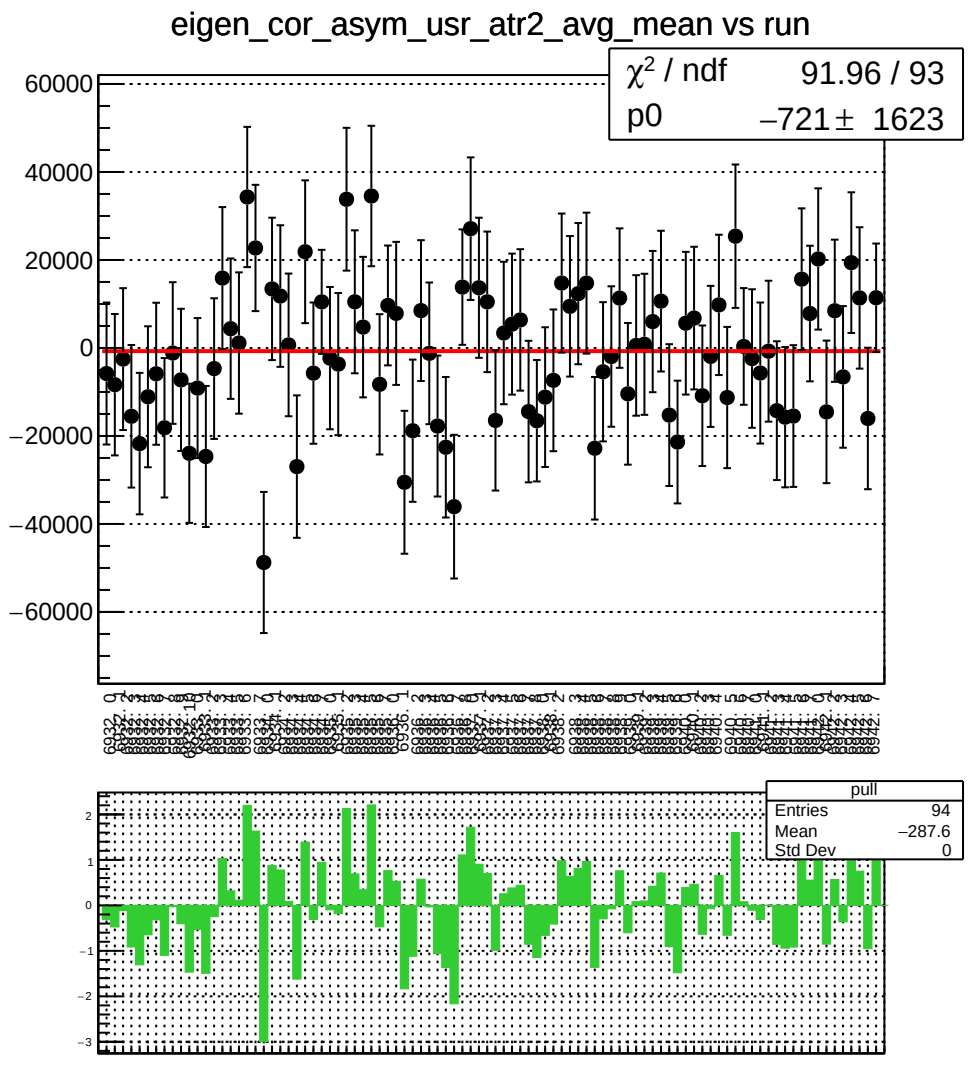

pull1D
Entries 94
Mean −0.00888
Std Dev 0.9891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

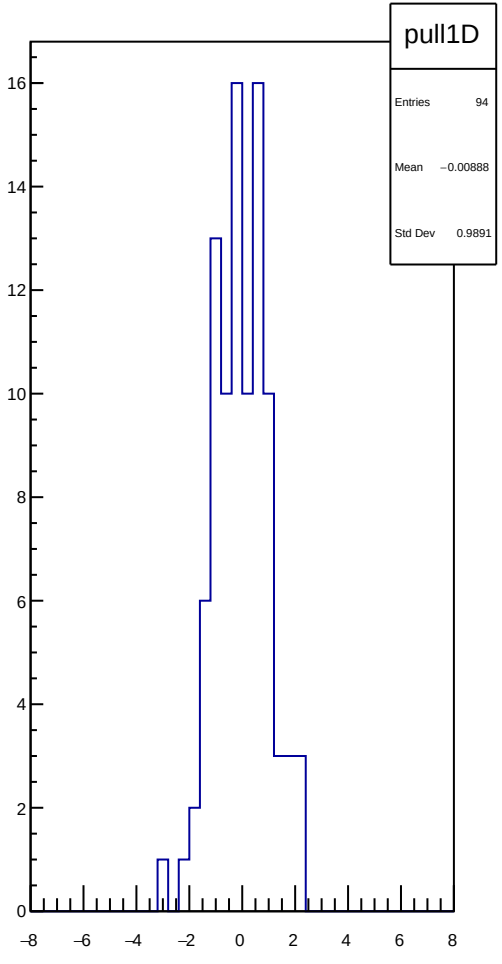

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 99.26 / 93
p0 1524 ± 1.147
1560
1550
1540
1530
1520
1510
1500
1490
1480

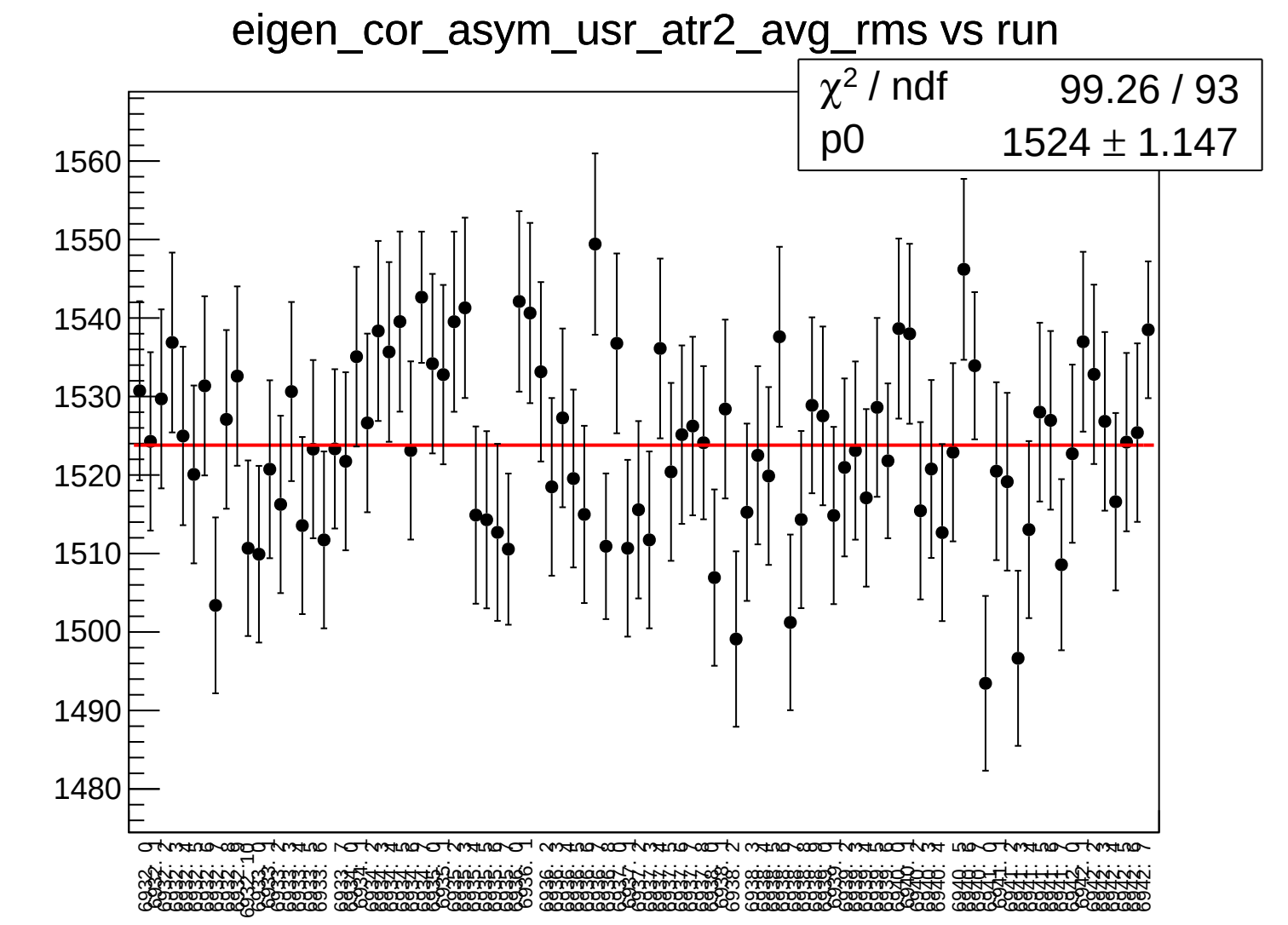

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.13 / 93
p0 7169 ± 6357
200
100
0
−100
−200
pull
Entries 94
Mean 489.3
Std Dev 0
2
1
0
−1
−2

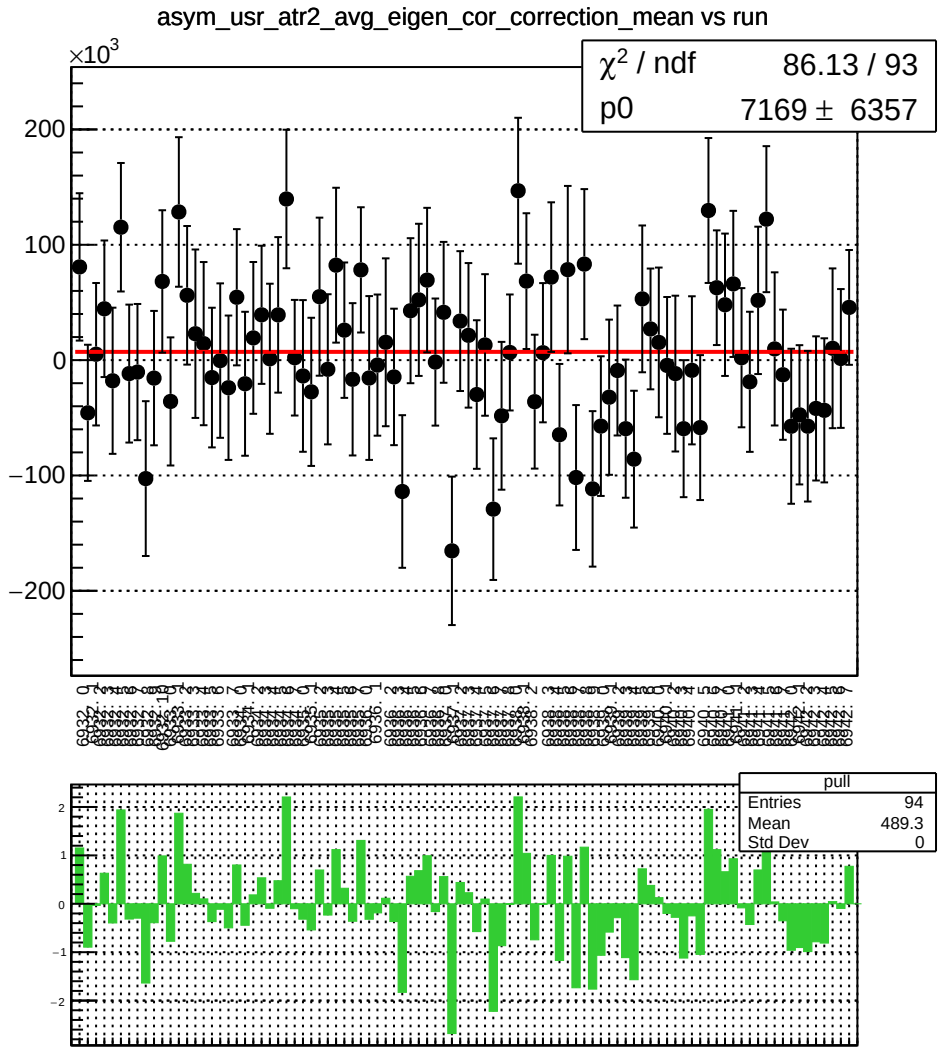

pull1D
Entries 94
Mean −0.006808
Std Dev 0.9572
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

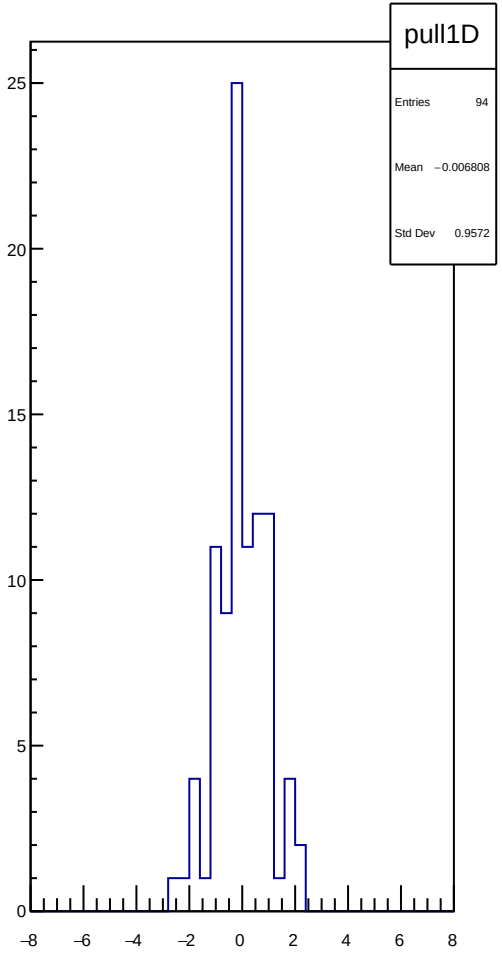

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 6171 / 93
p0 5960 ± 4.495
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

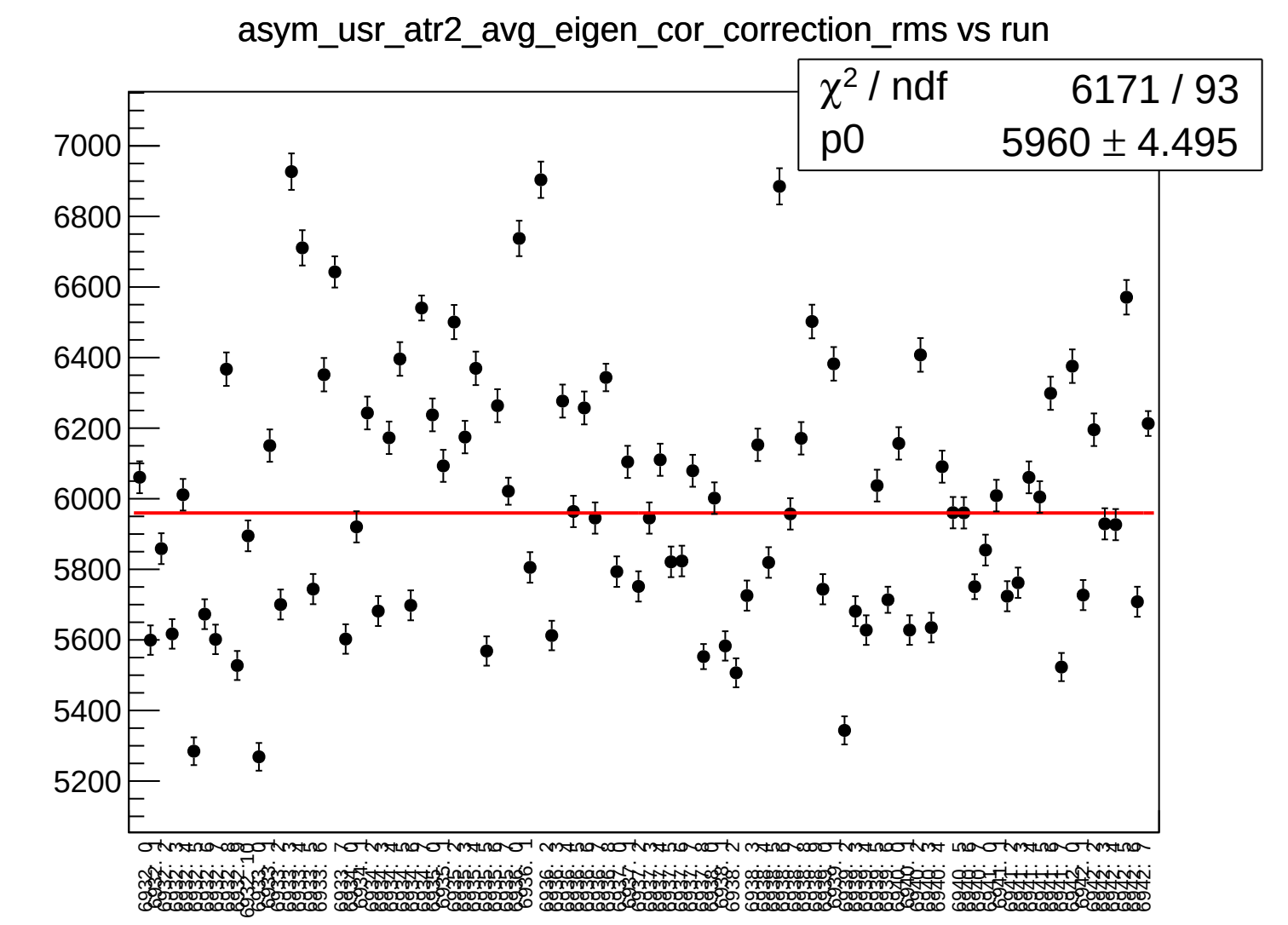

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 91.96 / 93
p0 −721 ± 1623
pull
Entries 94
Mean −287.6
Std Dev 0

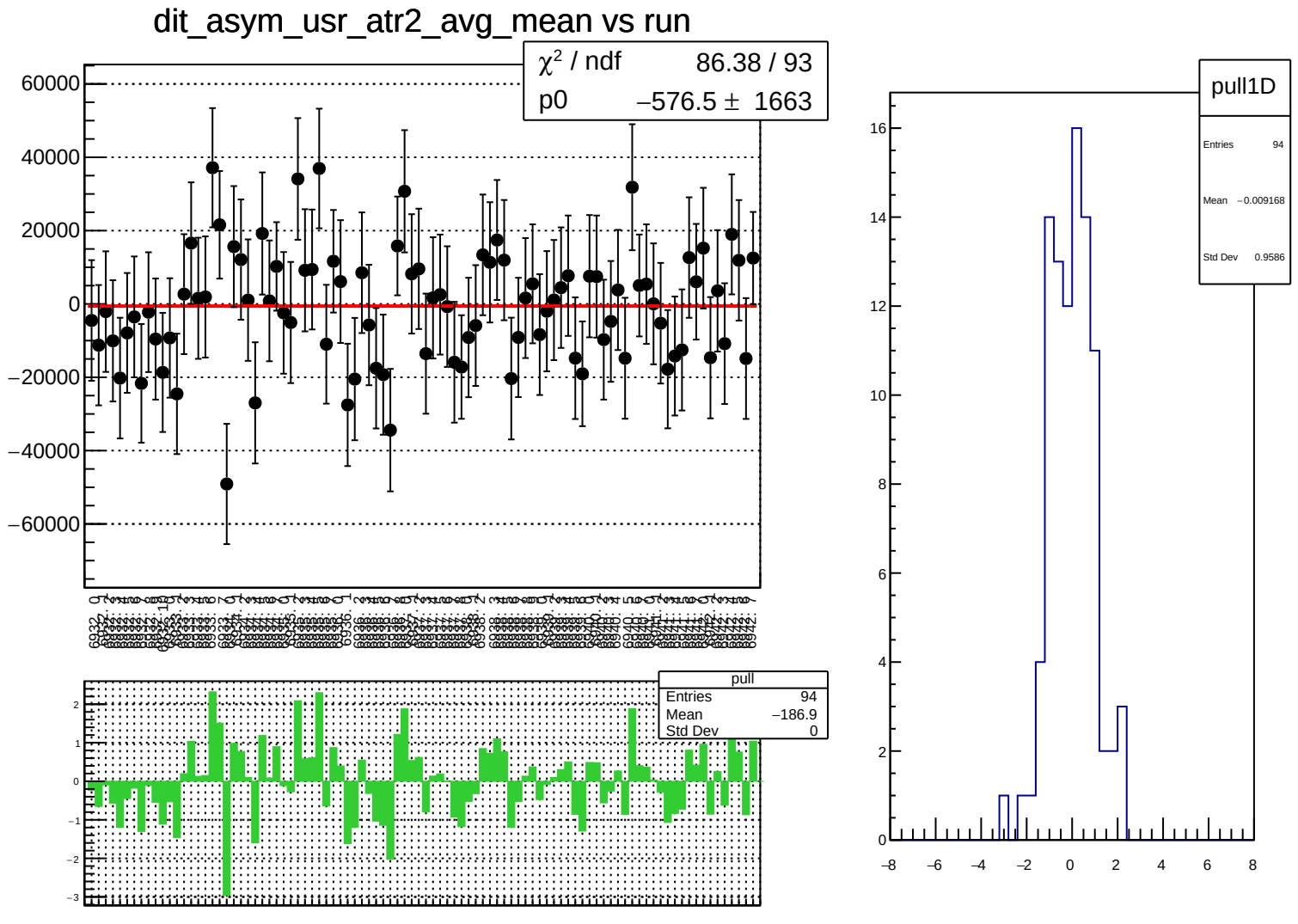

pull1D
Entries 94
Mean −0.00888
Std Dev 0.9891

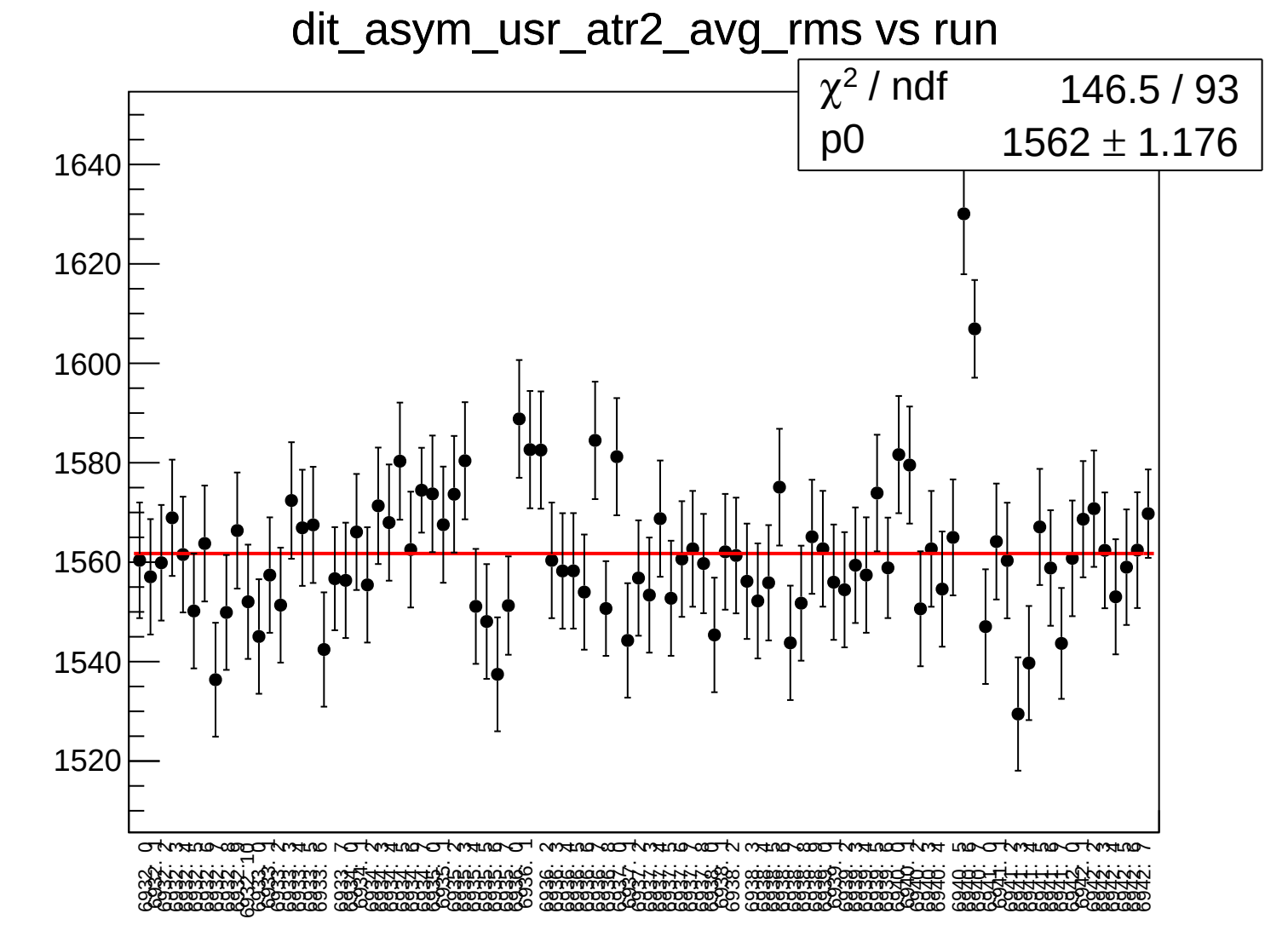

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 99.26 / 93
p0 1524 ± 1.147
1560
1550
1540
1530
1520
1510
1500
1490
1480

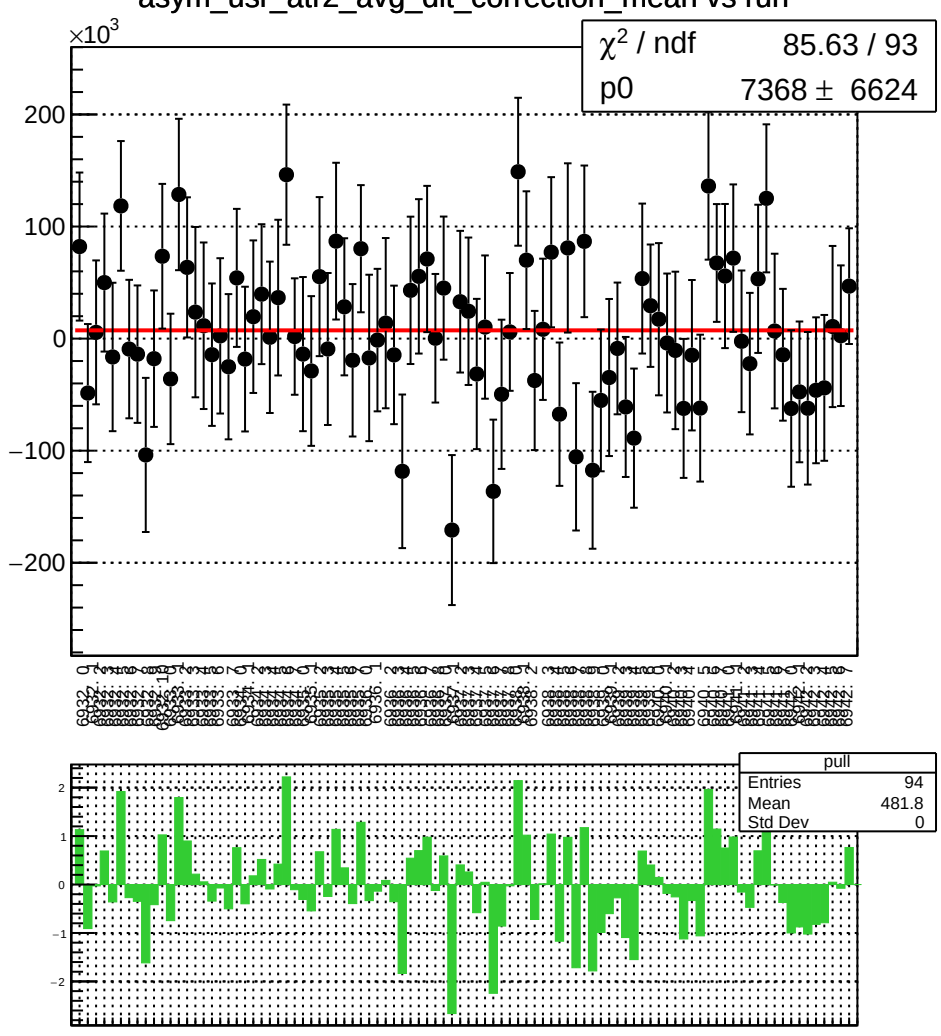

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.13 / 93
p0 7169 ± 6357
200
100
0
−100
−200
pull
Entries 94
Mean 489.3
Std Dev 0
2
1
0
−1
−2

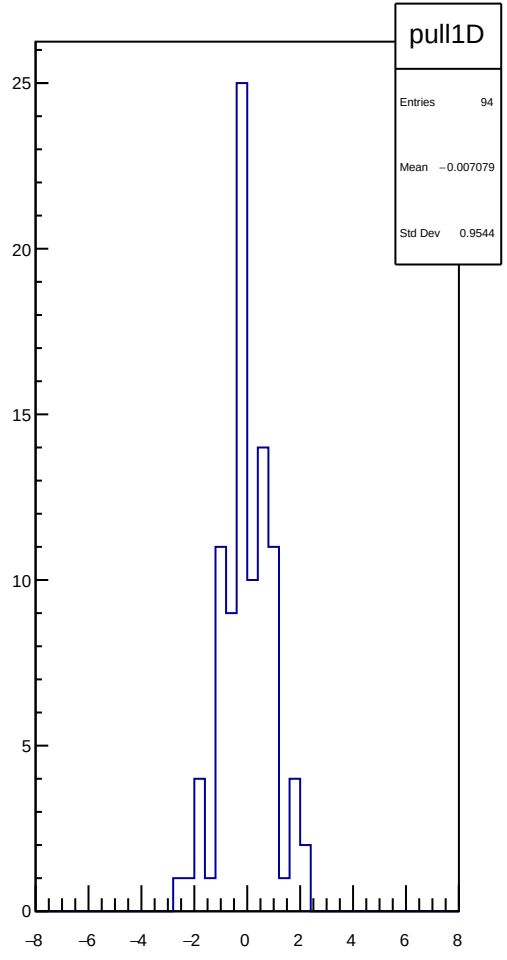

pull1D
Entries 94
Mean −0.006808
Std Dev 0.9572
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

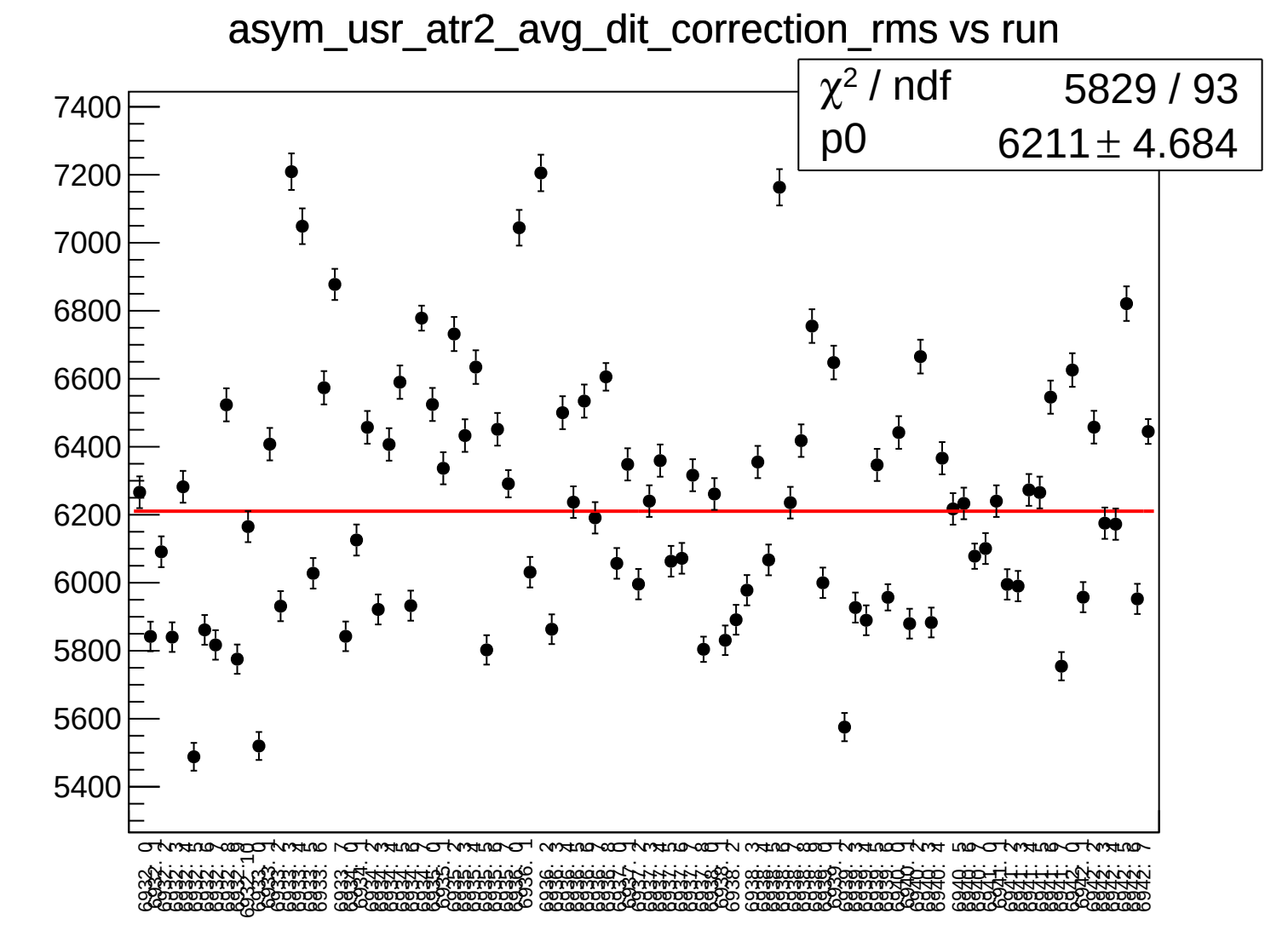

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6171 / 93
p0 5960 ± 4.495
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

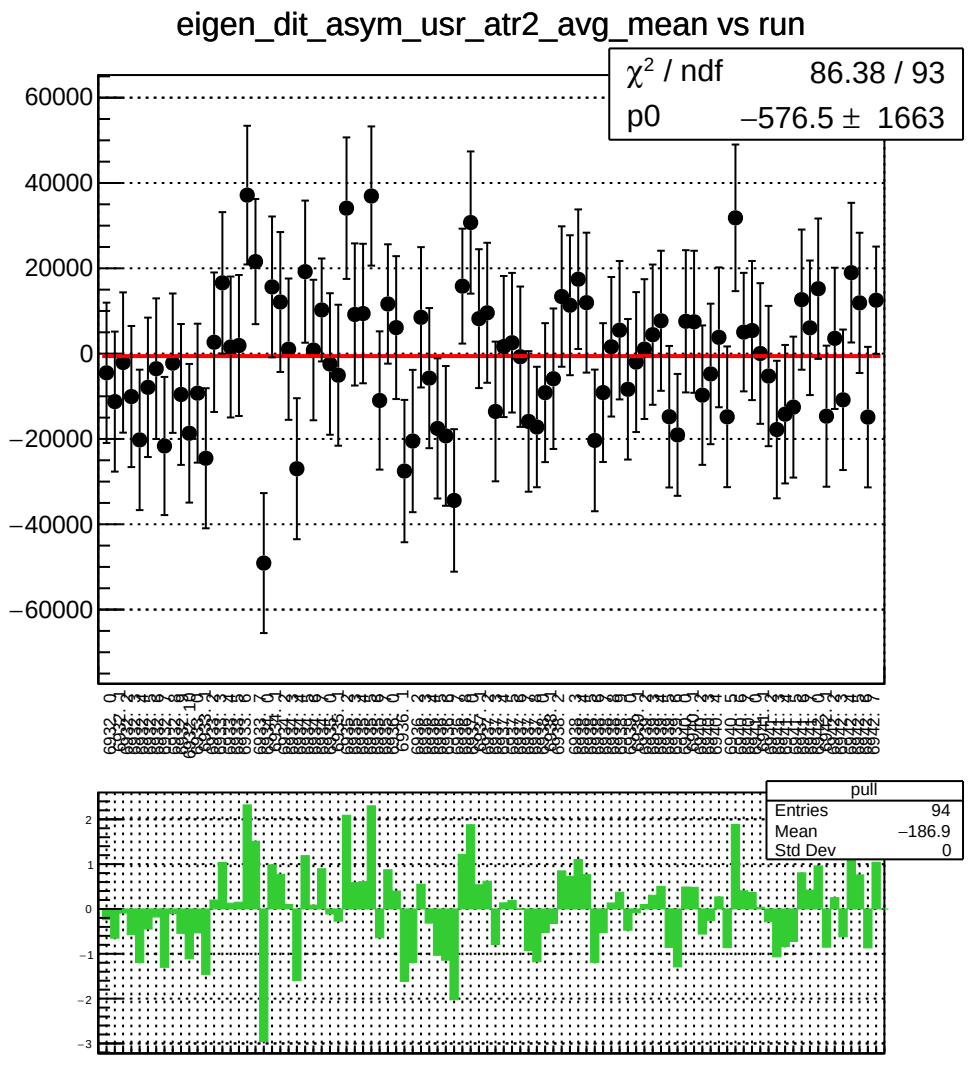

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.38 / 93
p0 −576.5 ± 1663
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −186.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.009168
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

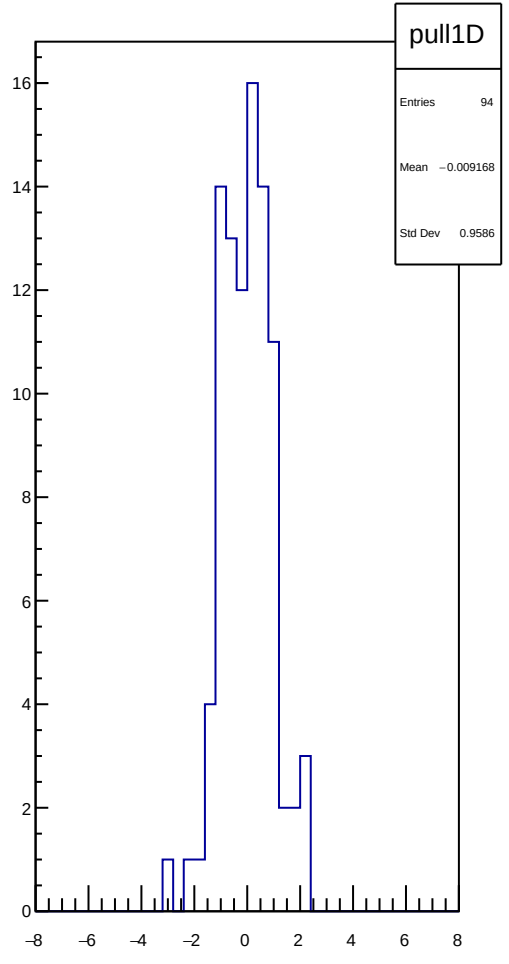

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 146.5 / 93
p0 1562 ± 1.176
1640
1620
1600
1580
1560
1540
1520

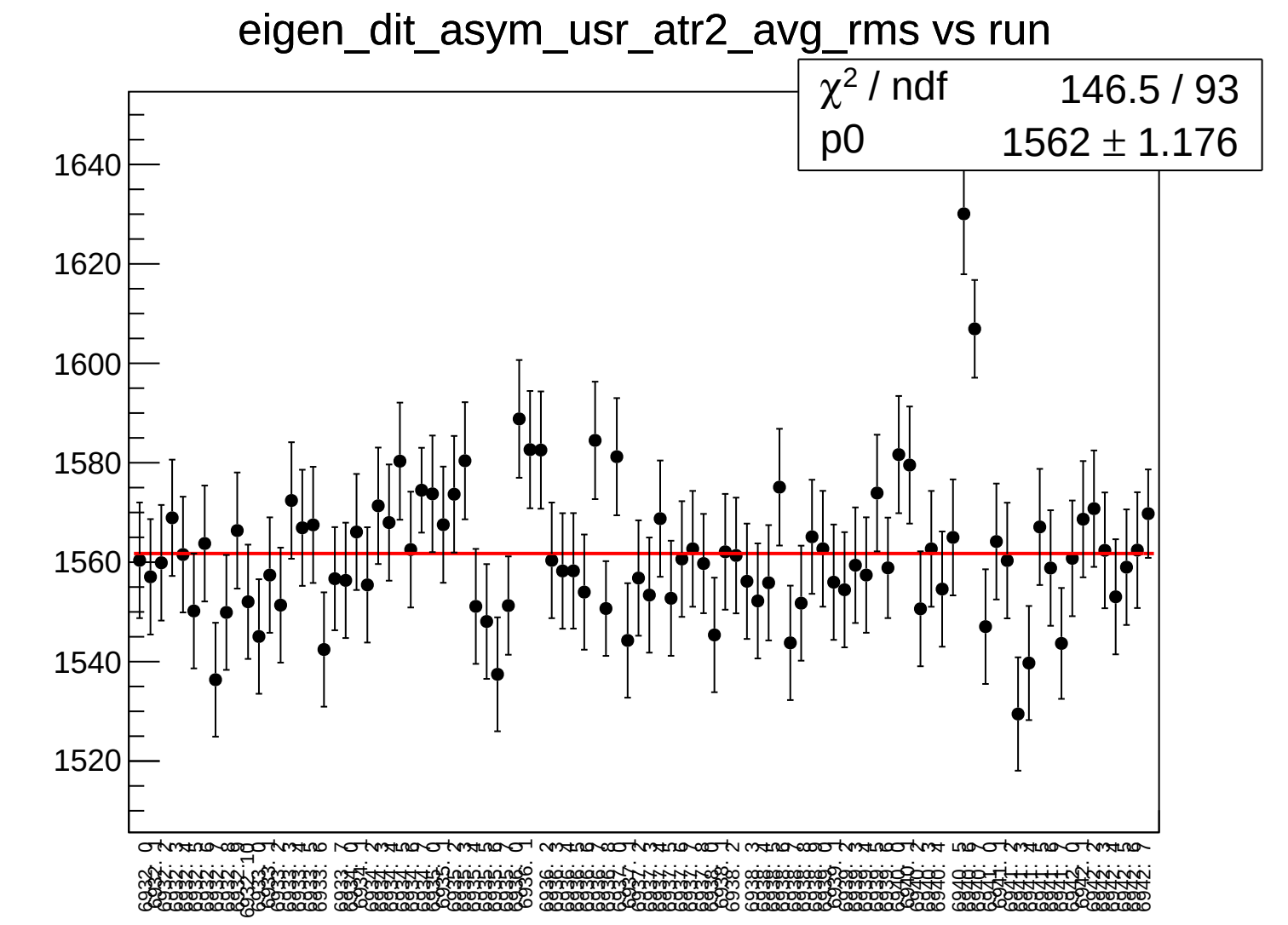

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.63 / 93
p0 7368 ± 6624
200
100
0
−100
−200
pull
Entries 94
Mean 481.8
Std Dev 0
2
1
0
−1
−2

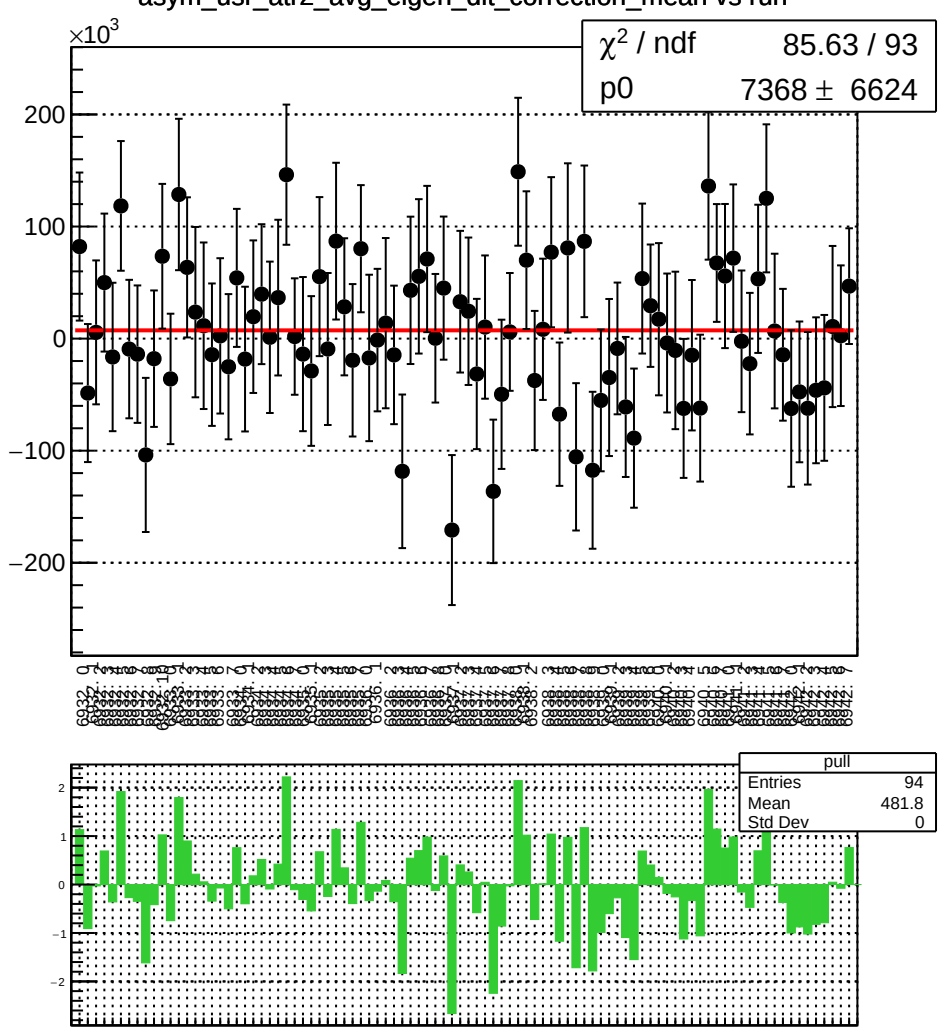

pull1D
Entries 94
Mean −0.007079
Std Dev 0.9544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

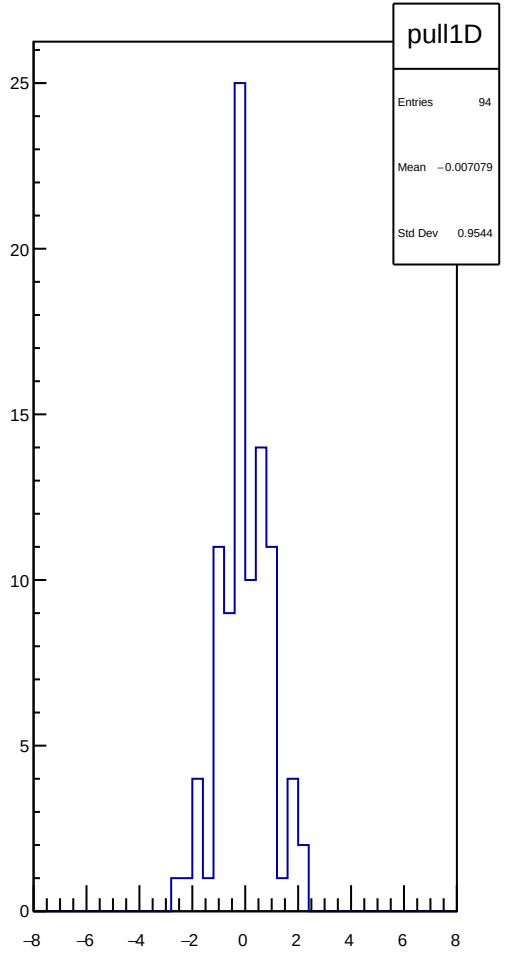

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 5829 / 93
p0 6211 ± 4.684
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

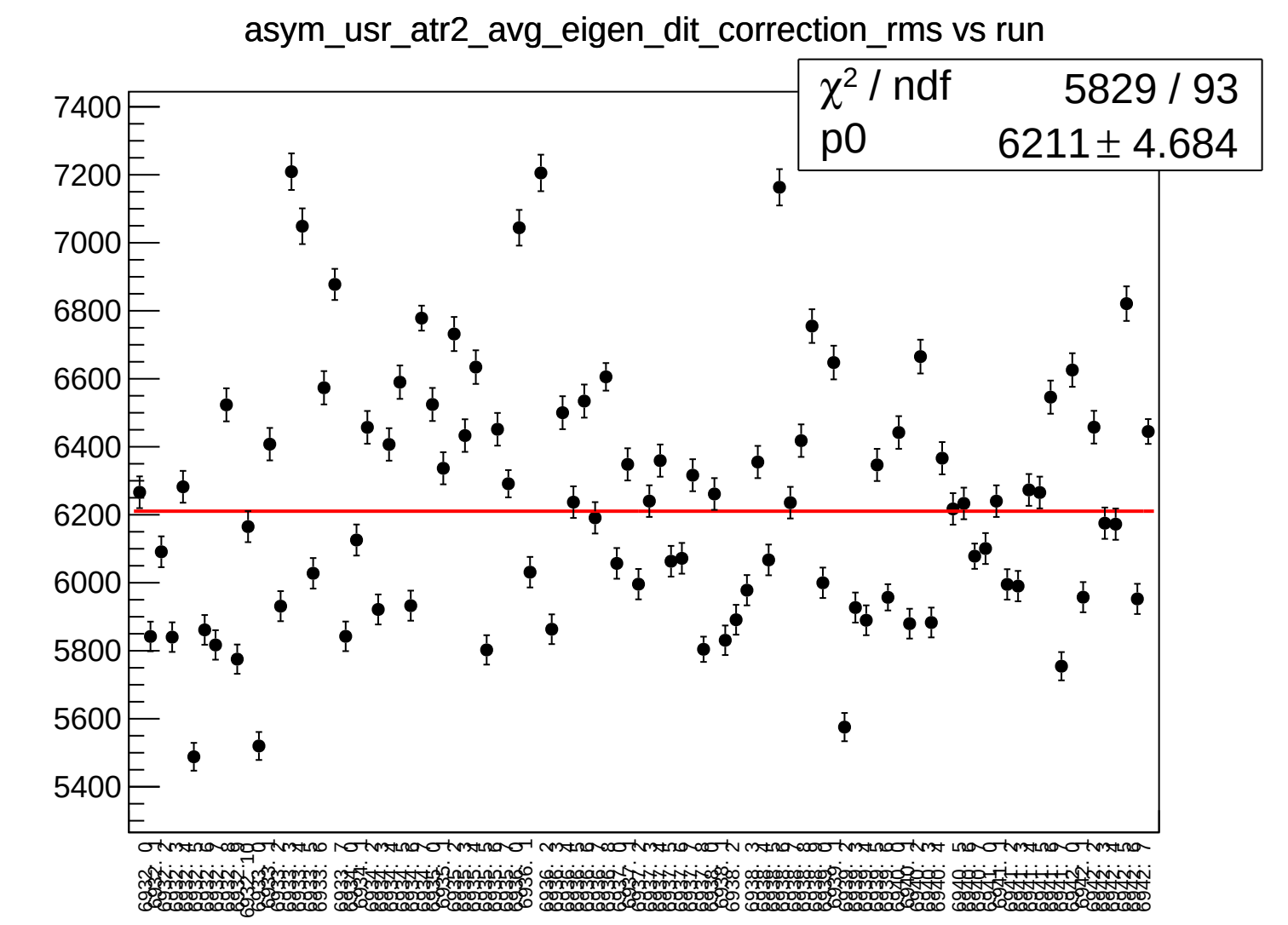

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.38 / 93
p0 −576.5 ± 1663
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −186.9
Std Dev 0
2
1
0
−1
−2
−3

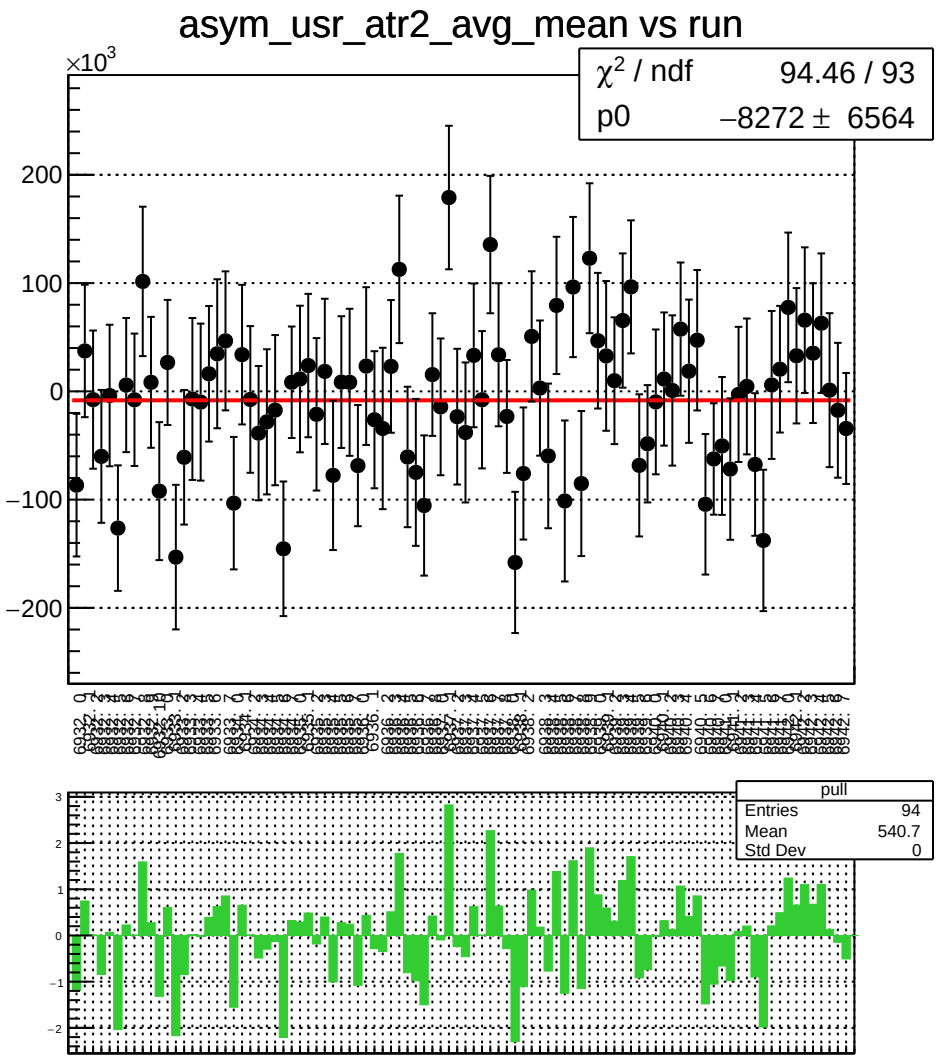

pull1D
Entries 94
Mean −0.009168
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

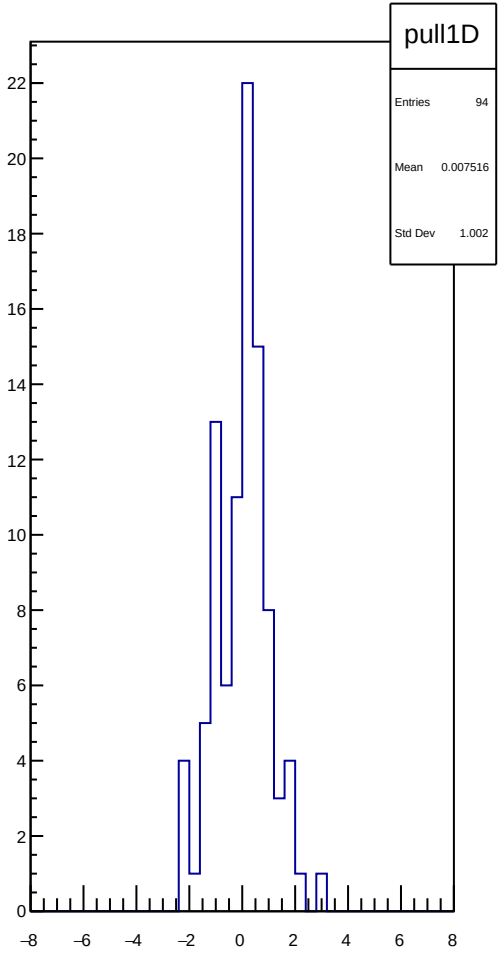

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 146.5 / 93
p0 1562 ± 1.176
1640
1620
1600
1580
1560
1540
1520

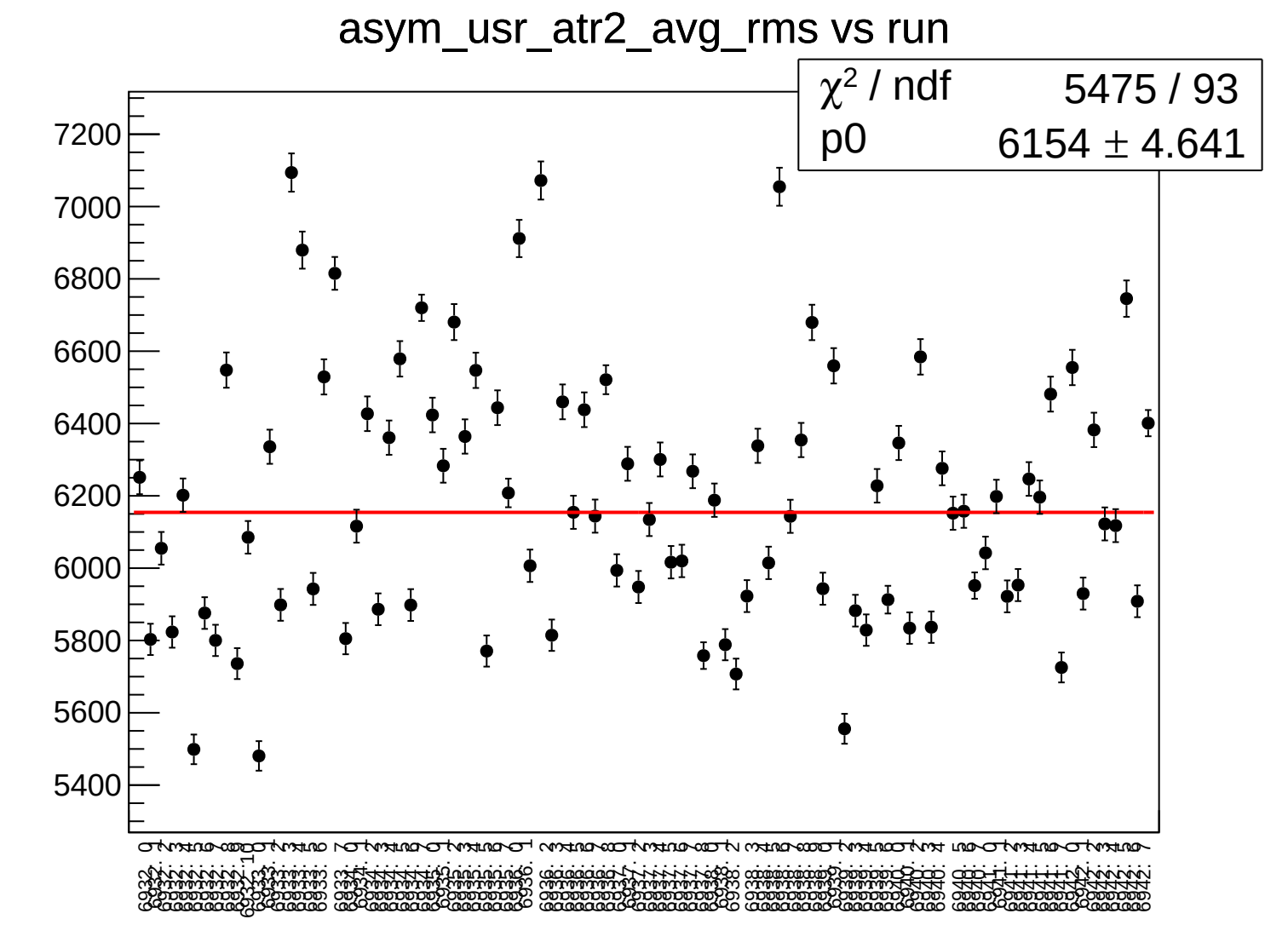

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 85.63 / 93
p0 7368 ± 6624
200
100
0
−100
−200
pull
Entries 94
Mean 481.8
Std Dev 0
2
1
0
−1
−2

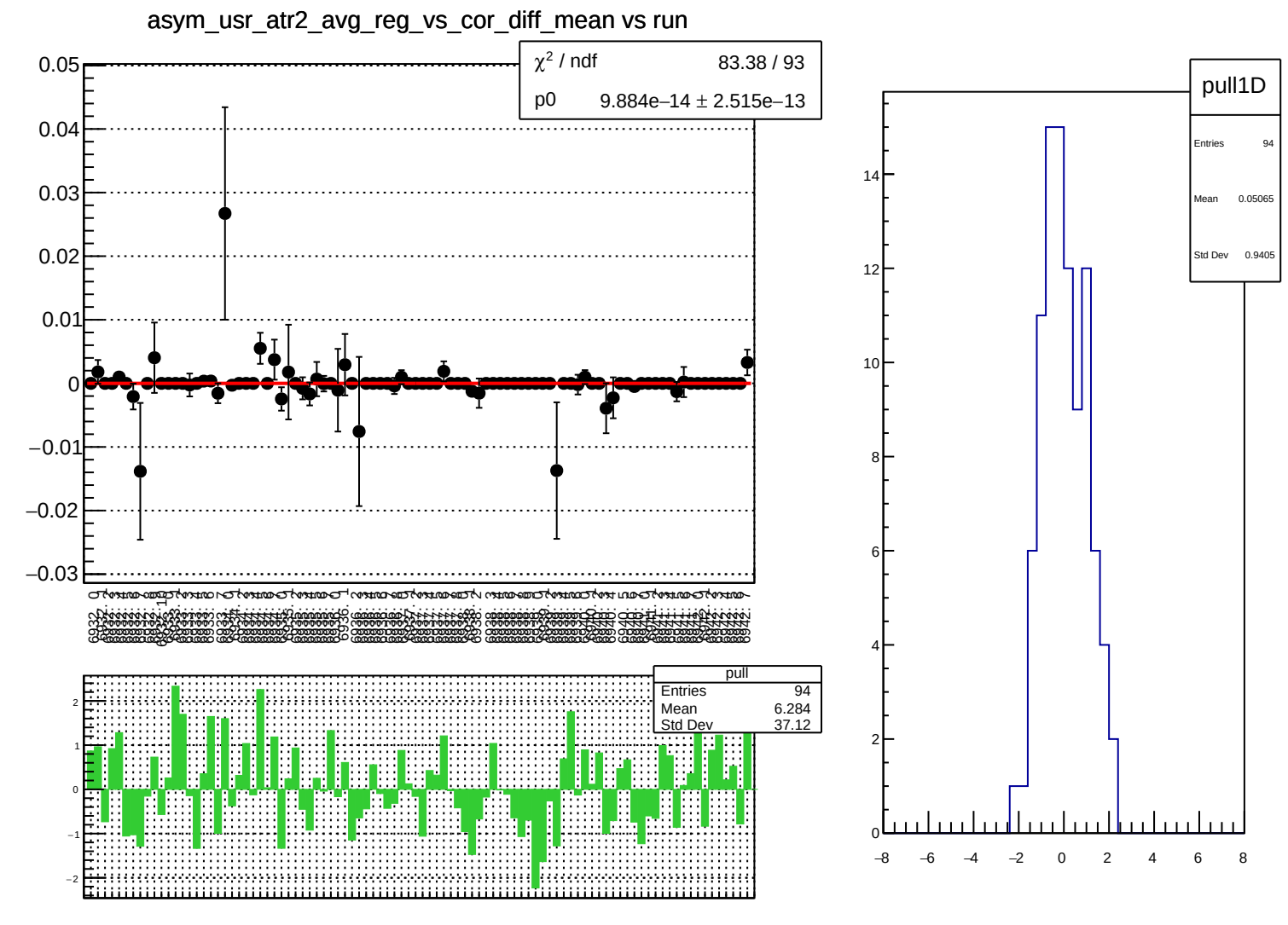

pull1D
Entries 94
Mean −0.007079
Std Dev 0.9544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

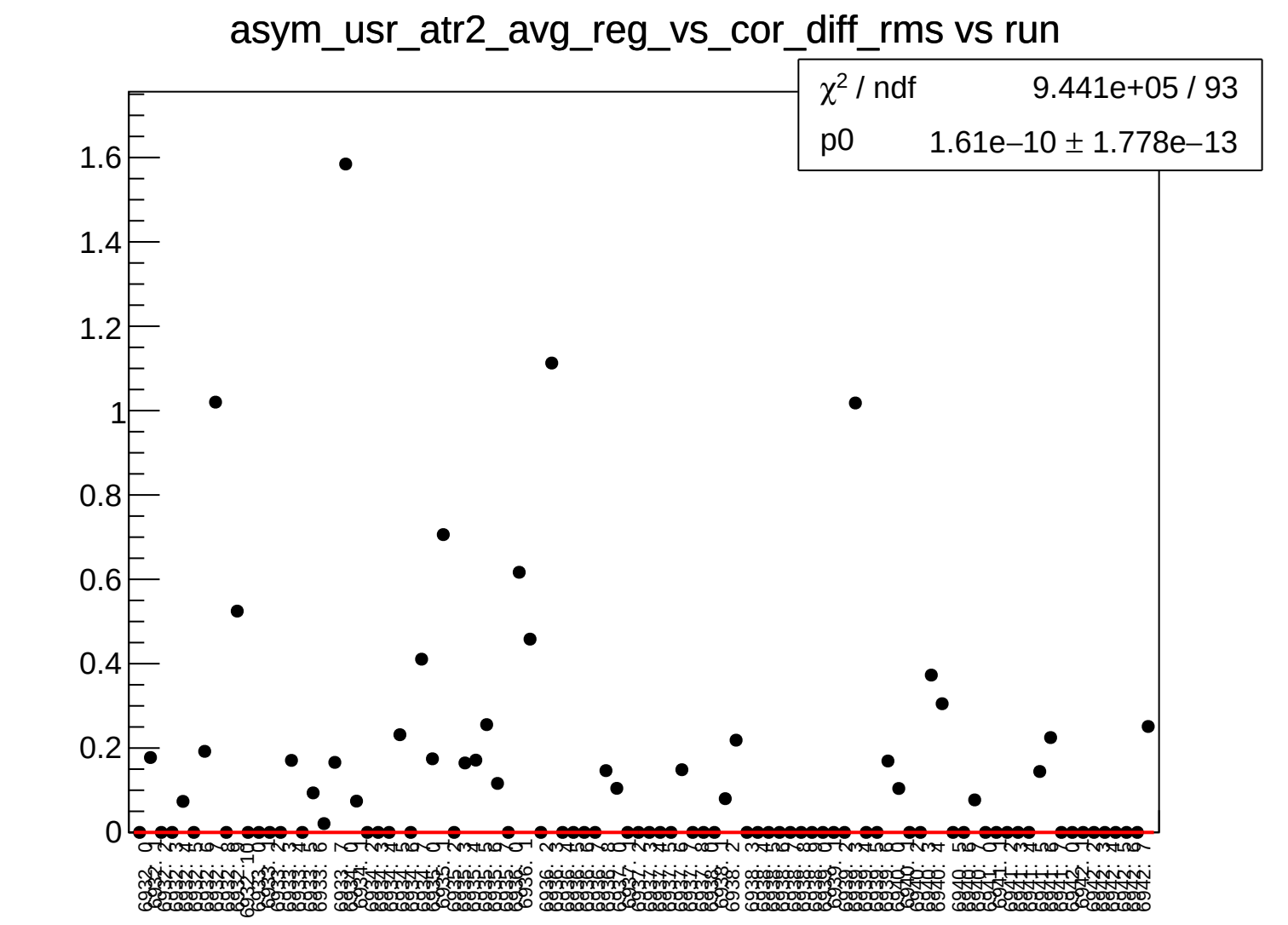

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5829 / 93
p0 6211 ± 4.684
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

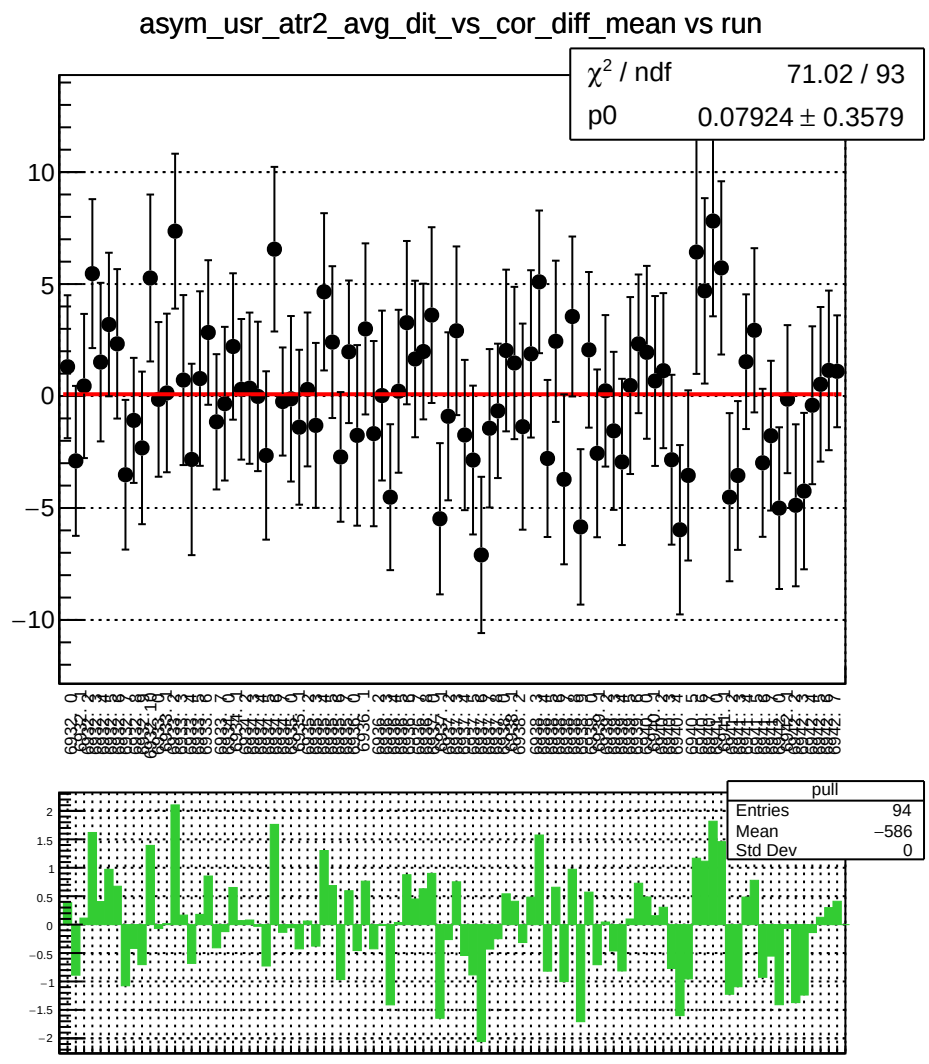

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 94.46 / 93
p0 −8272 ± 6564
200
100
0
−100
−200
pull
Entries 94
Mean 540.7
Std Dev 0
3
2
1
0
−1
−2

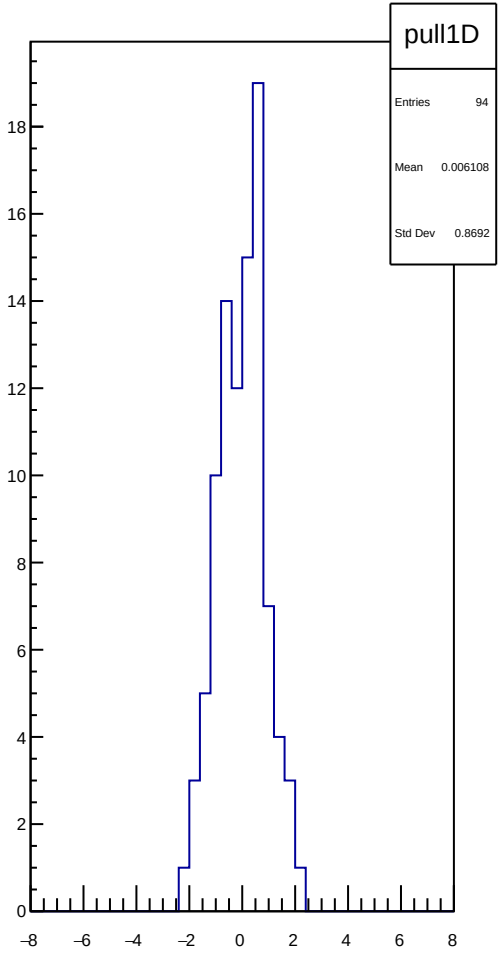

pull1D
Entries 94
Mean 0.007516
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

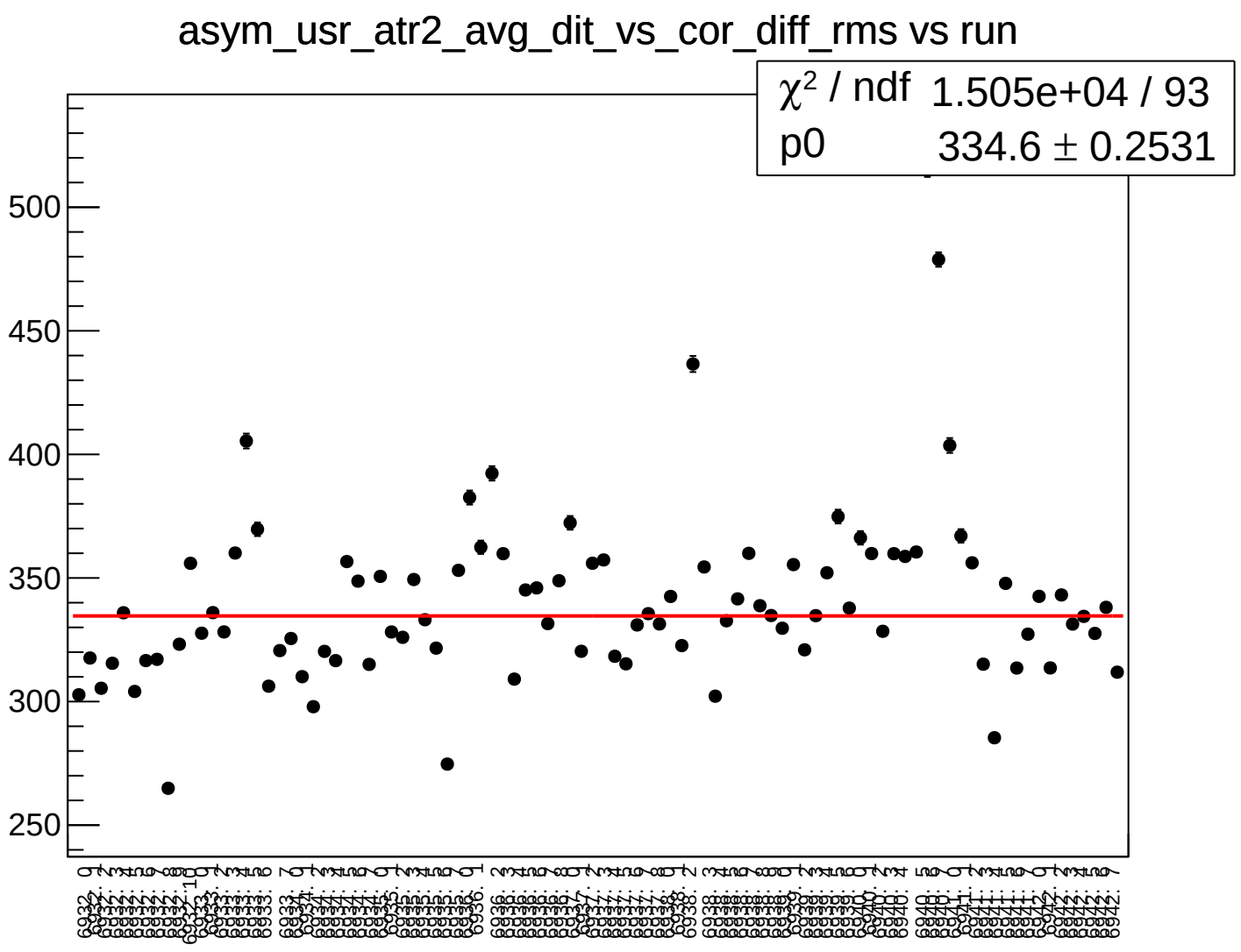

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 5475 / 93
p0 6154 ± 4.641
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

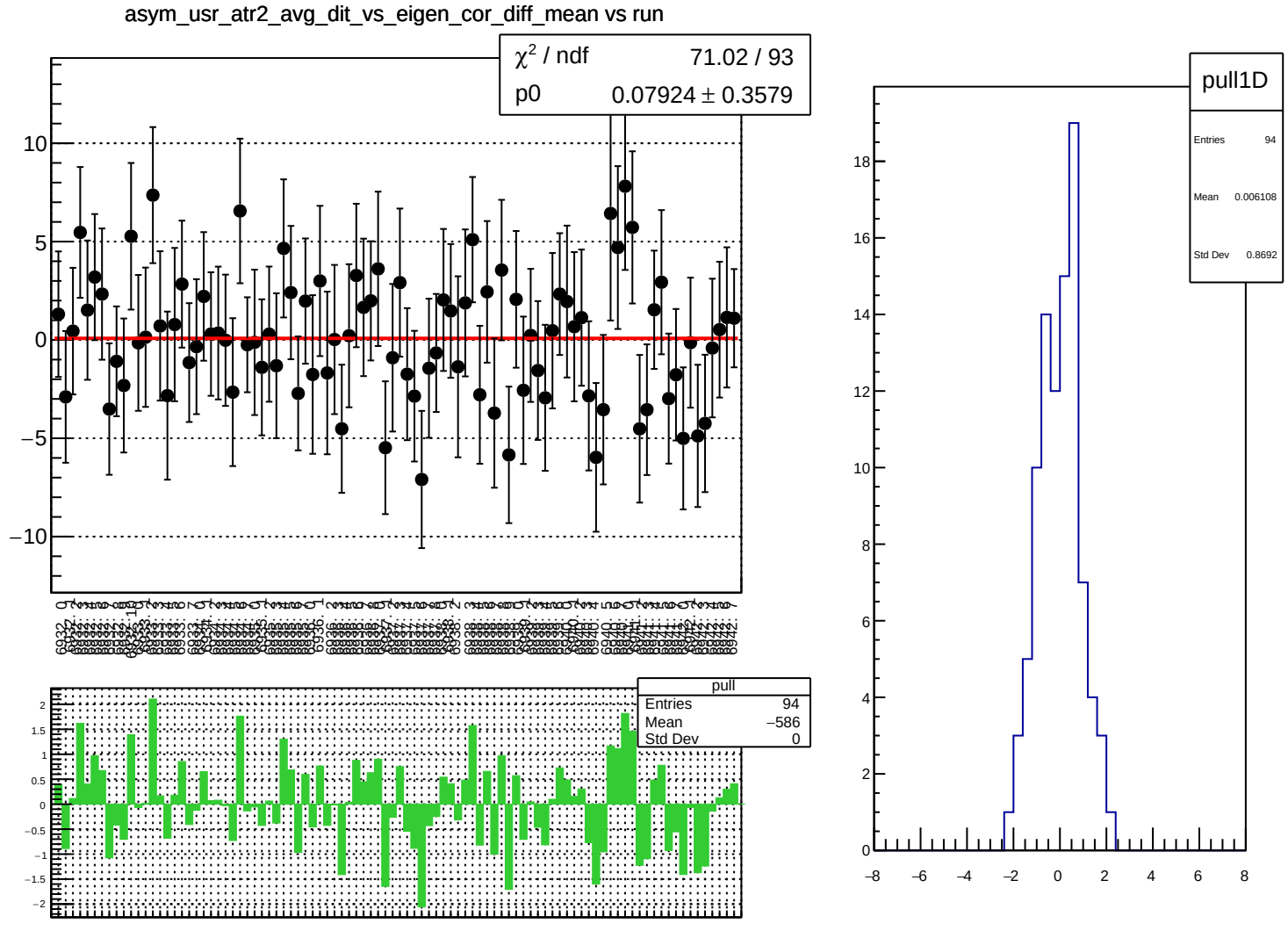

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.38 / 93
p0 9.884e−14 ± 2.515e−13
pull
Entries 94
Mean 6.284
Std Dev 37.12
pull1D
Entries 94
Mean 0.05065
Std Dev 0.9405

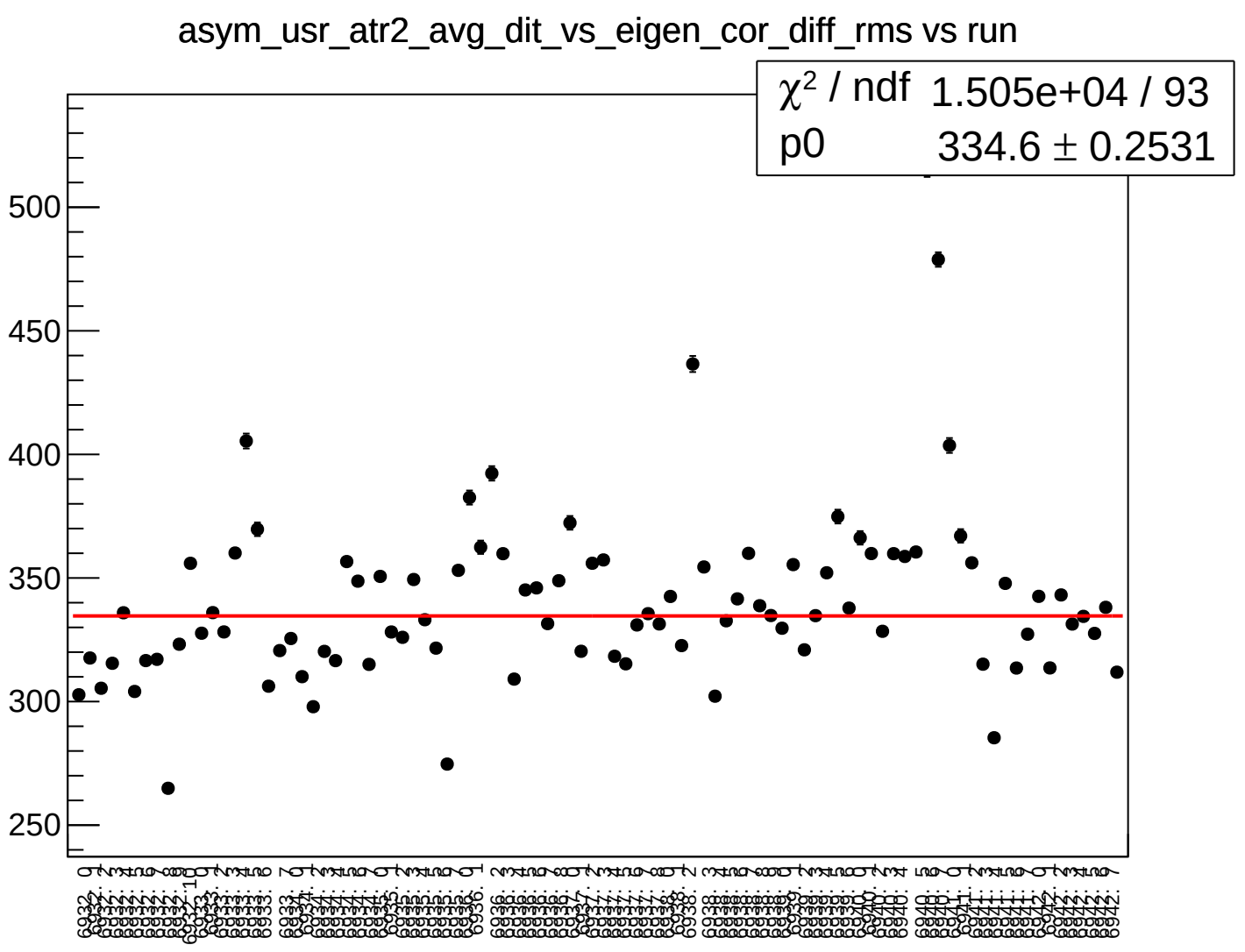

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.441e+05 / 93
p0 1.61e−10 ± 1.778e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

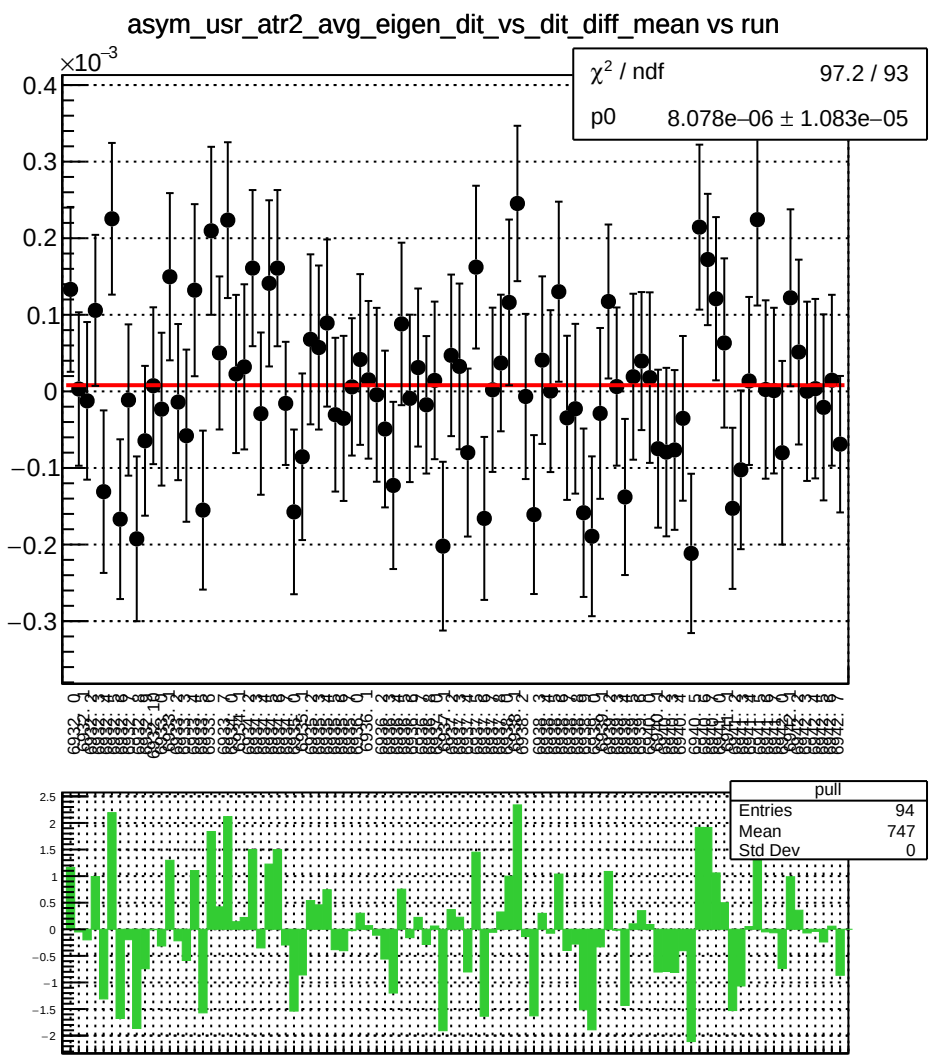

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.02 / 93
p0 0.07924 ± 0.3579
pull
Entries 94
Mean −586
Std Dev 0

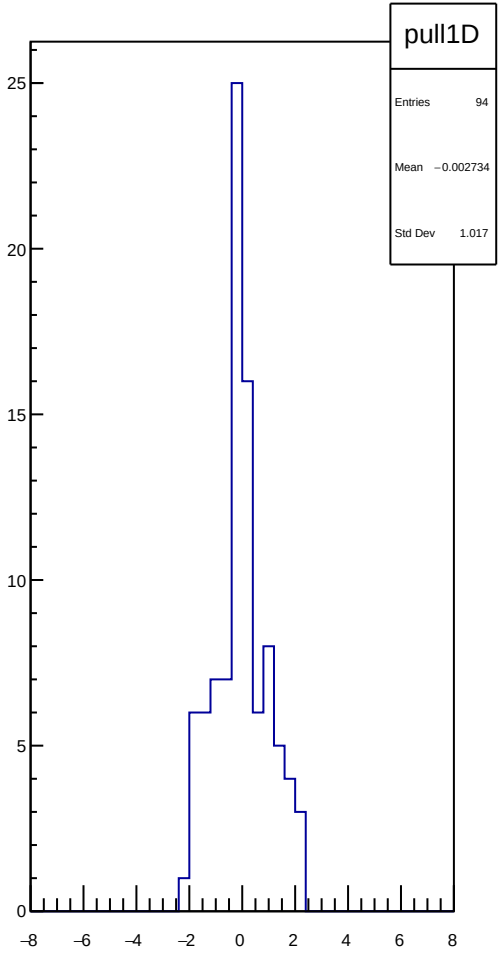

pull1D
Entries 94
Mean 0.006108
Std Dev 0.8692

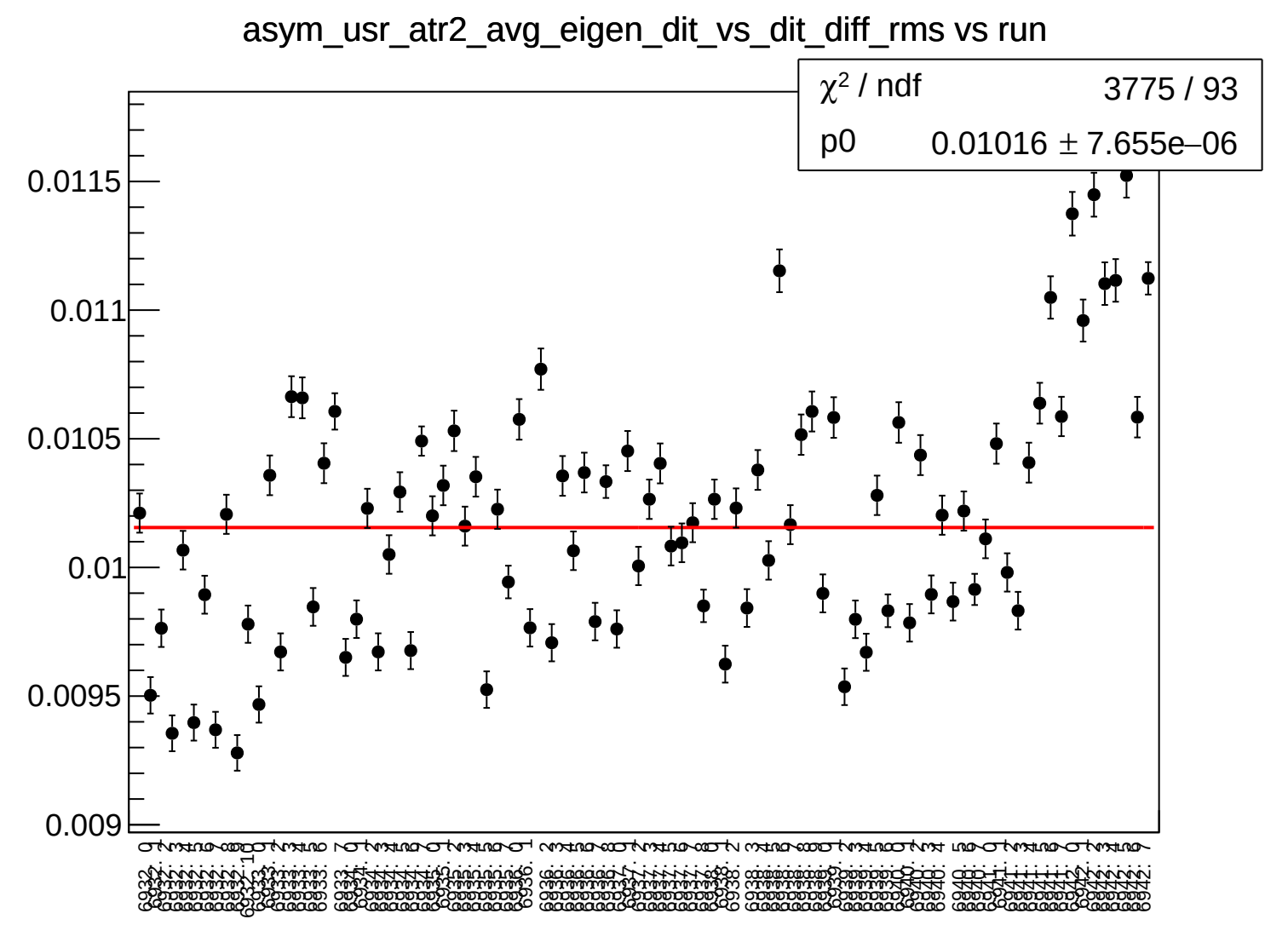

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+04 / 93
p0 334.6 ± 0.2531
500
450
400
350
300
250

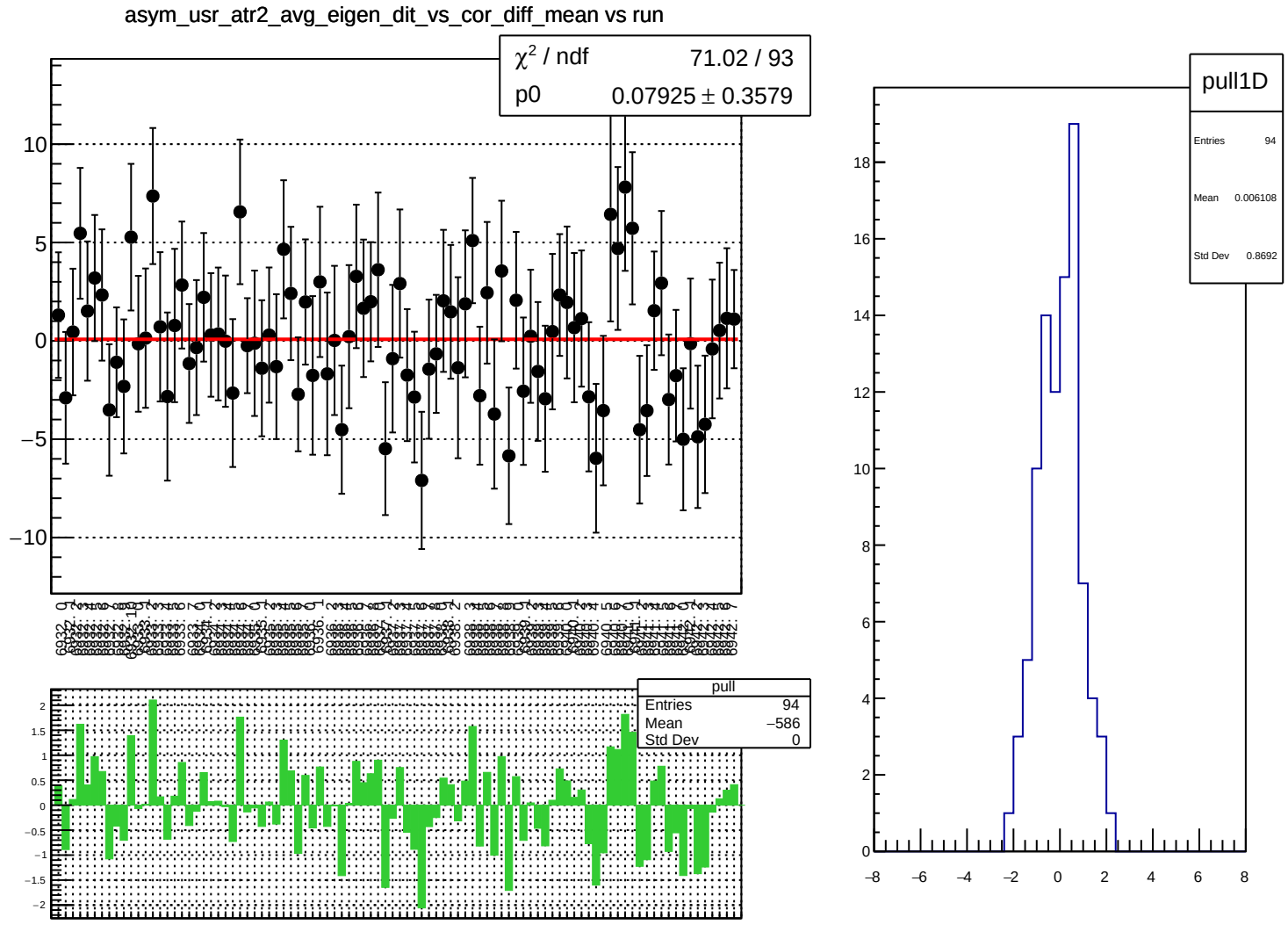

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.02 / 93
p0 0.07924 ± 0.3579
pull
Entries 94
Mean −586
Std Dev 0
pull1D
Entries 94
Mean 0.006108
Std Dev 0.8692

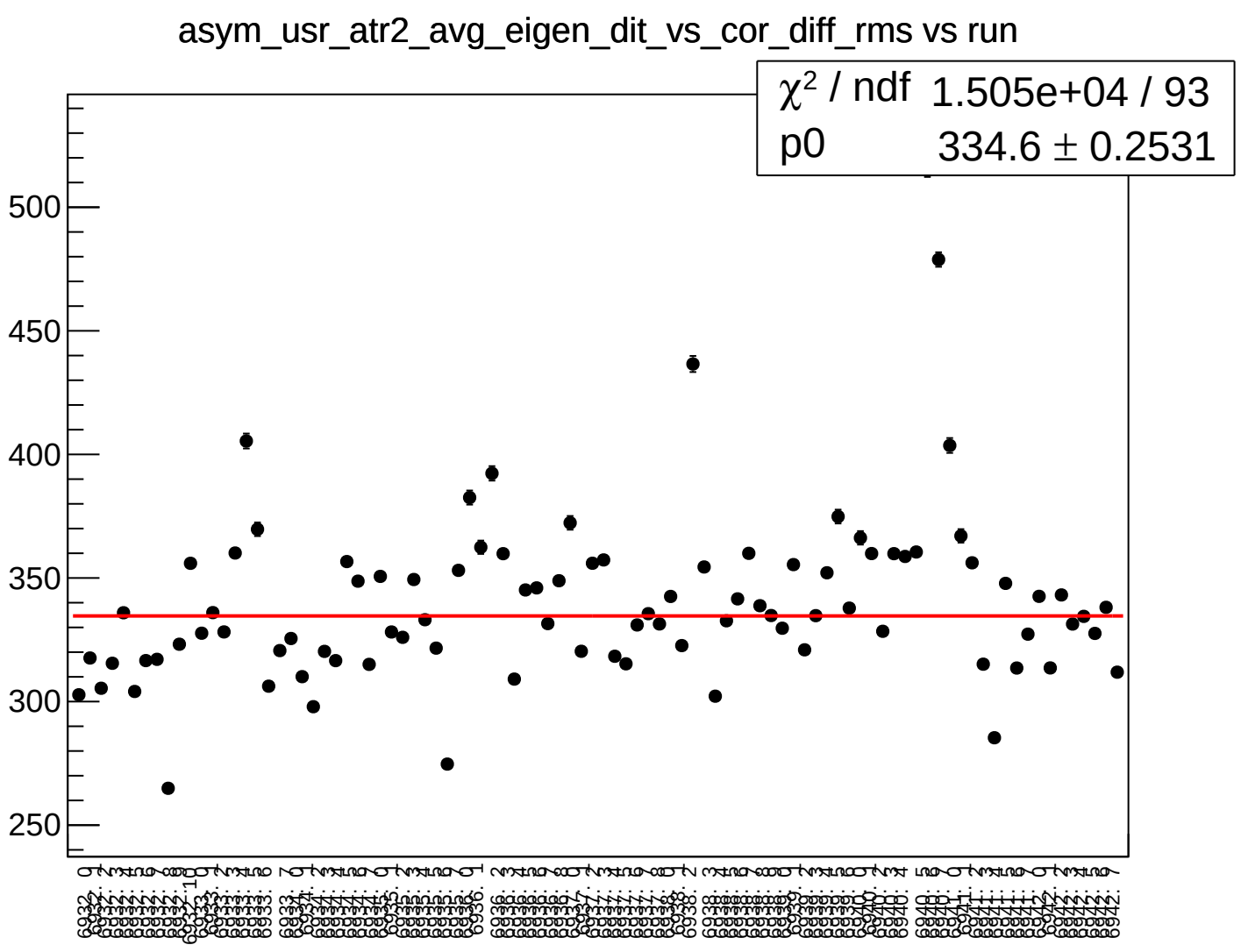

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+04 / 93
p0 334.6 ± 0.2531
500
450
400
350
300
250

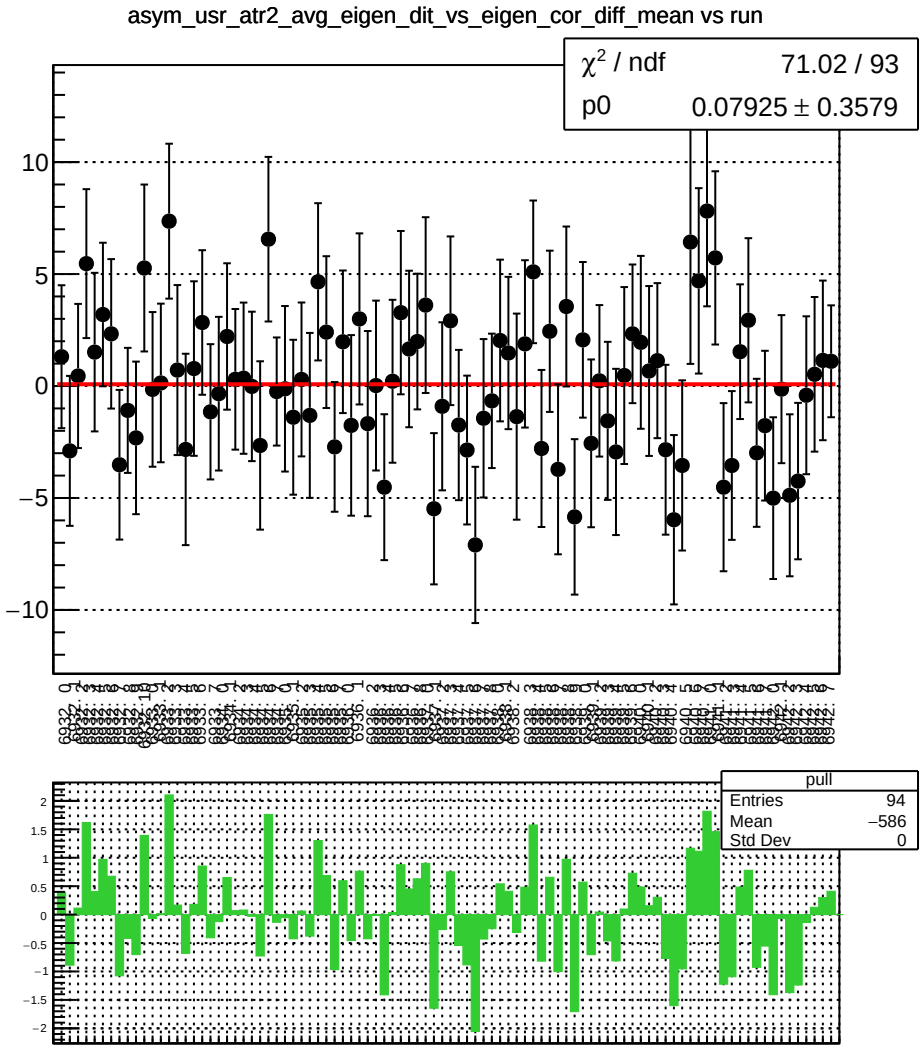

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.2 / 93
p0 8.078e−06 ± 1.083e−05
pull
Entries 94
Mean 747
Std Dev 0

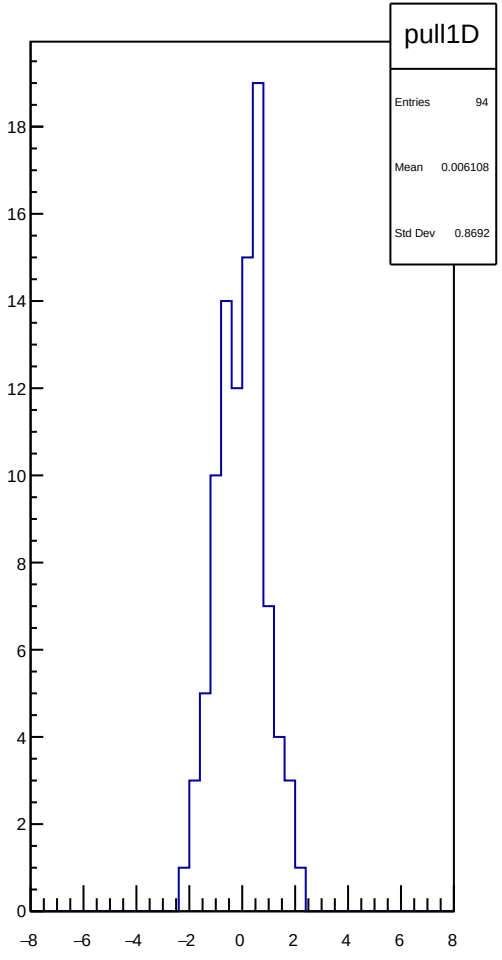

pull1D
Entries 94
Mean −0.002734
Std Dev 1.017

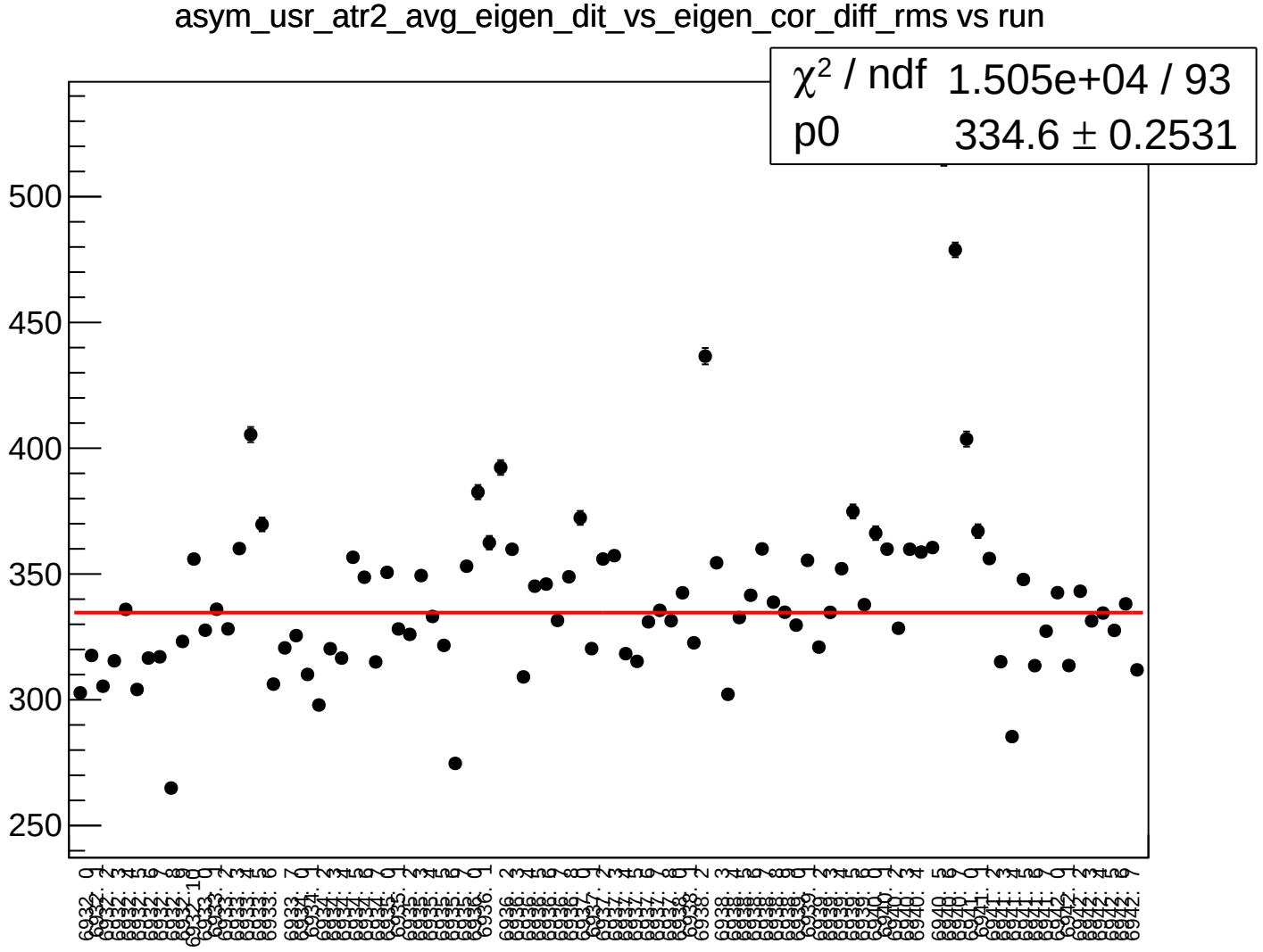

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3775 / 93
p0 0.01016 ± 7.655e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

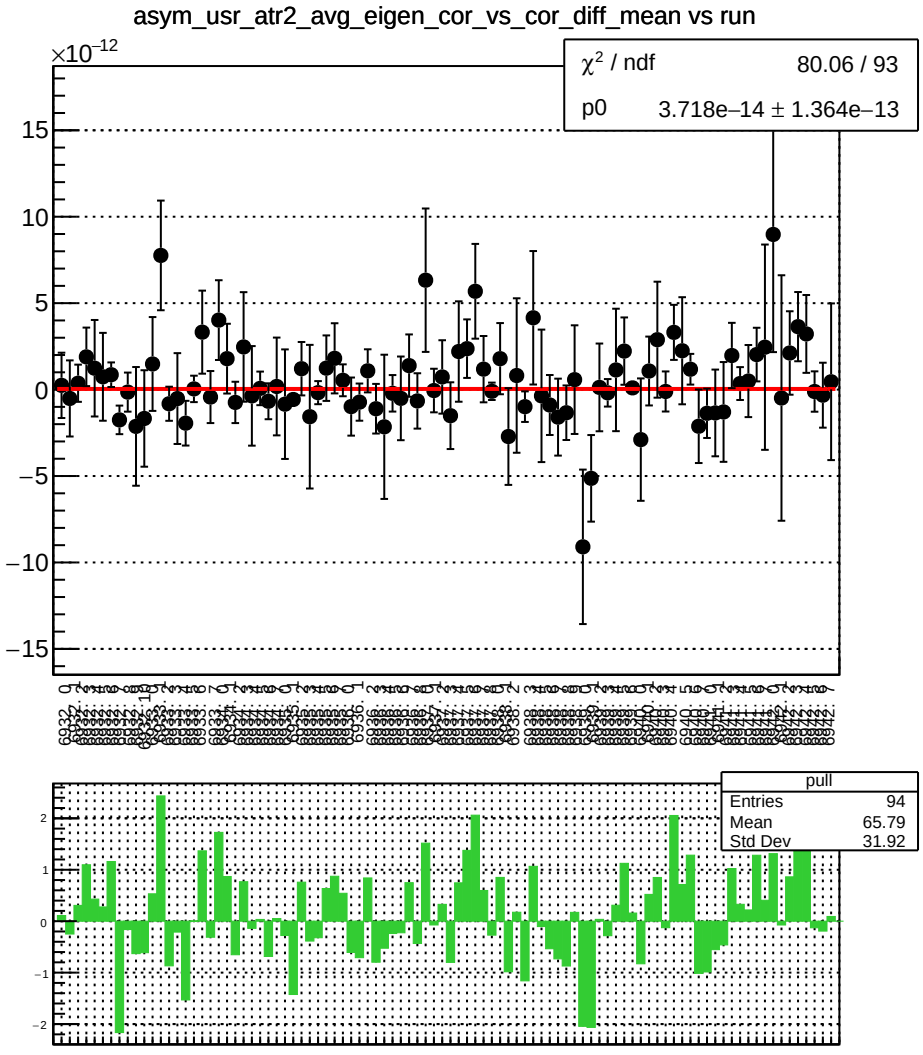

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.02 / 93
p0 0.07925 ± 0.3579
pull
Entries 94
Mean −586
Std Dev 0
pull1D
Entries 94
Mean 0.006108
Std Dev 0.8692

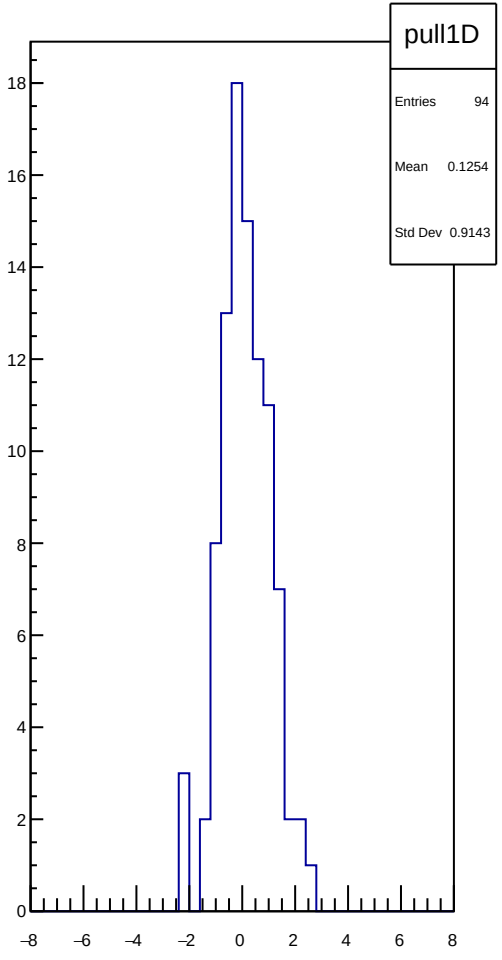

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.505e+04 / 93
p0 334.6 ± 0.2531
500
450
400
350
300
250

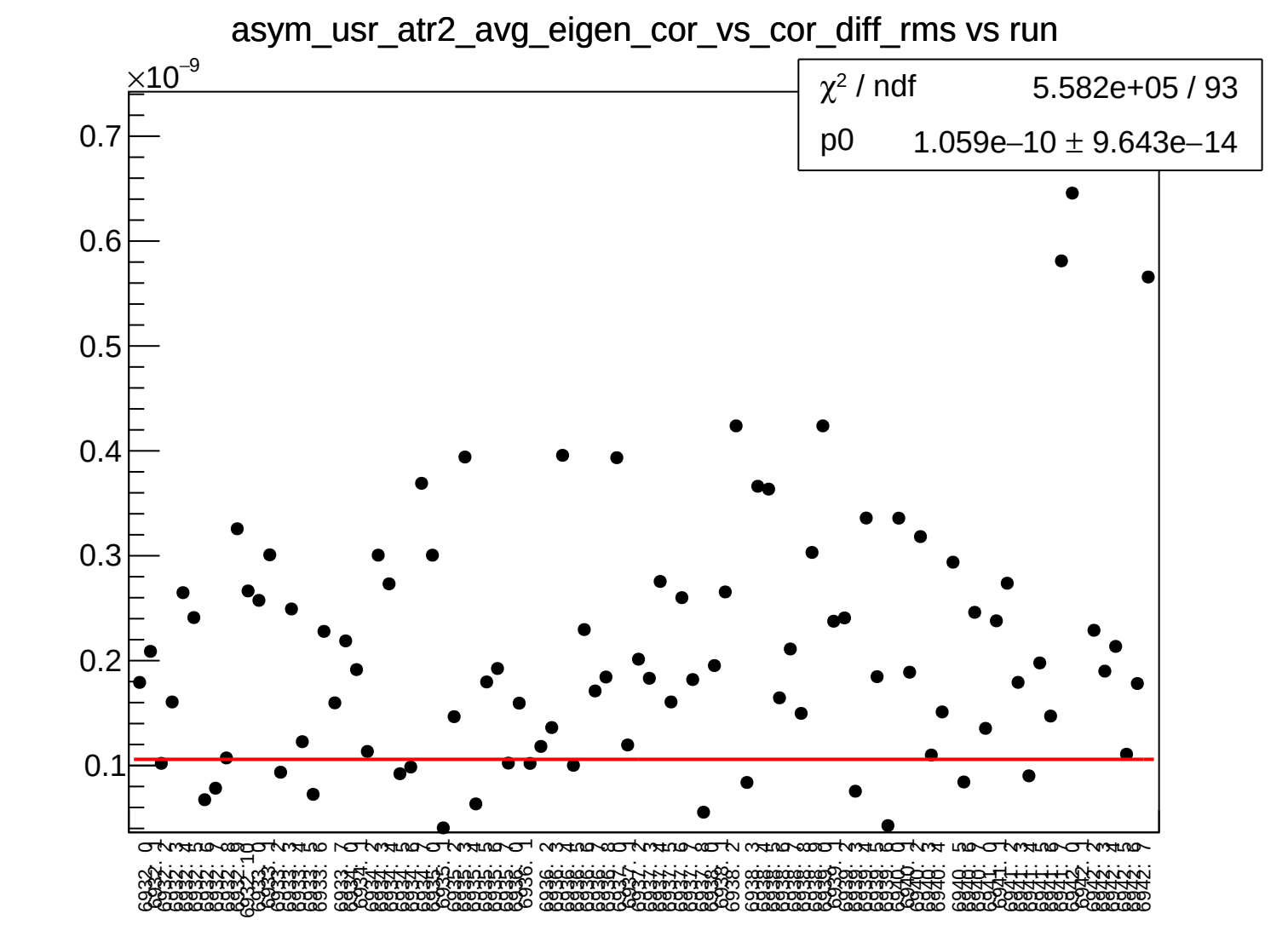

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.02 / 93
p0 0.07925 ± 0.3579
pull
Entries 94
Mean −586
Std Dev 0

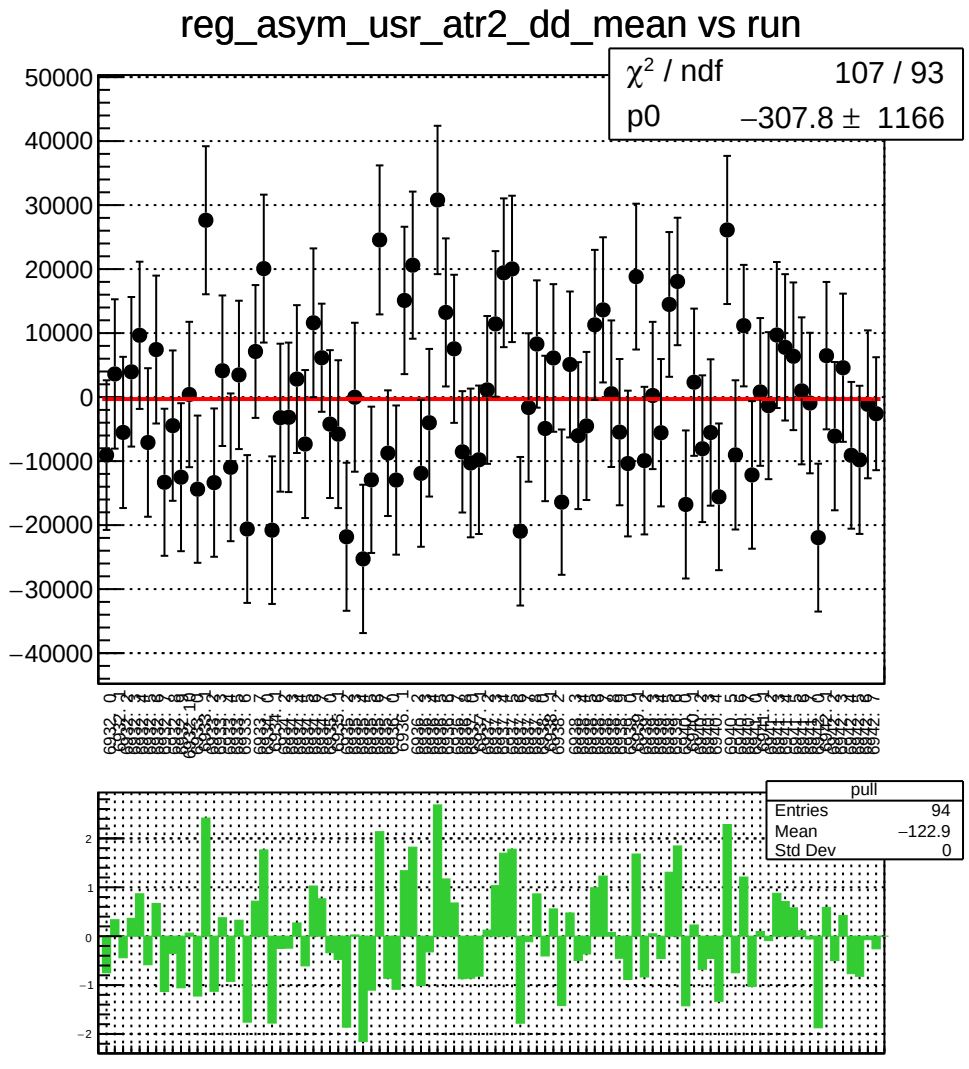

pull1D
Entries 94
Mean 0.006108
Std Dev 0.8692

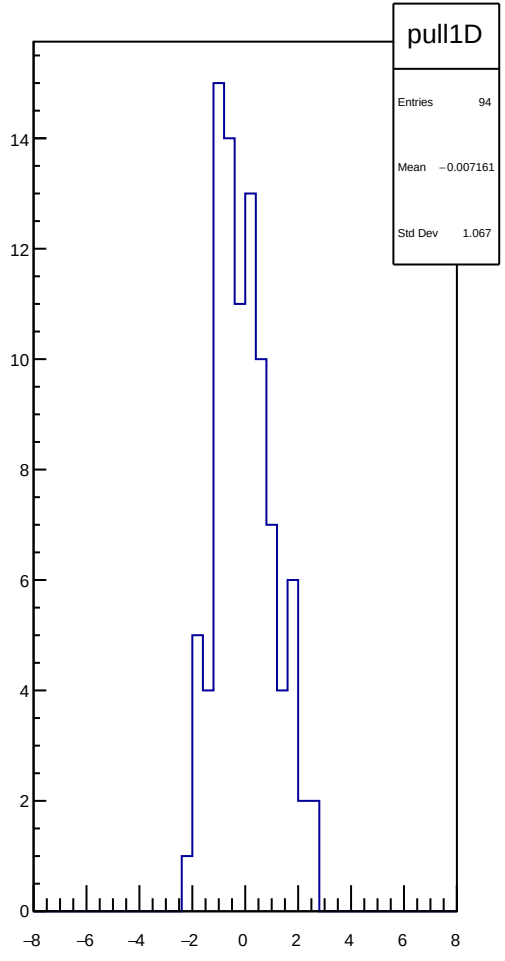

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.505e+04 / 93
p0 334.6 ± 0.2531
500
450
400
350
300
250

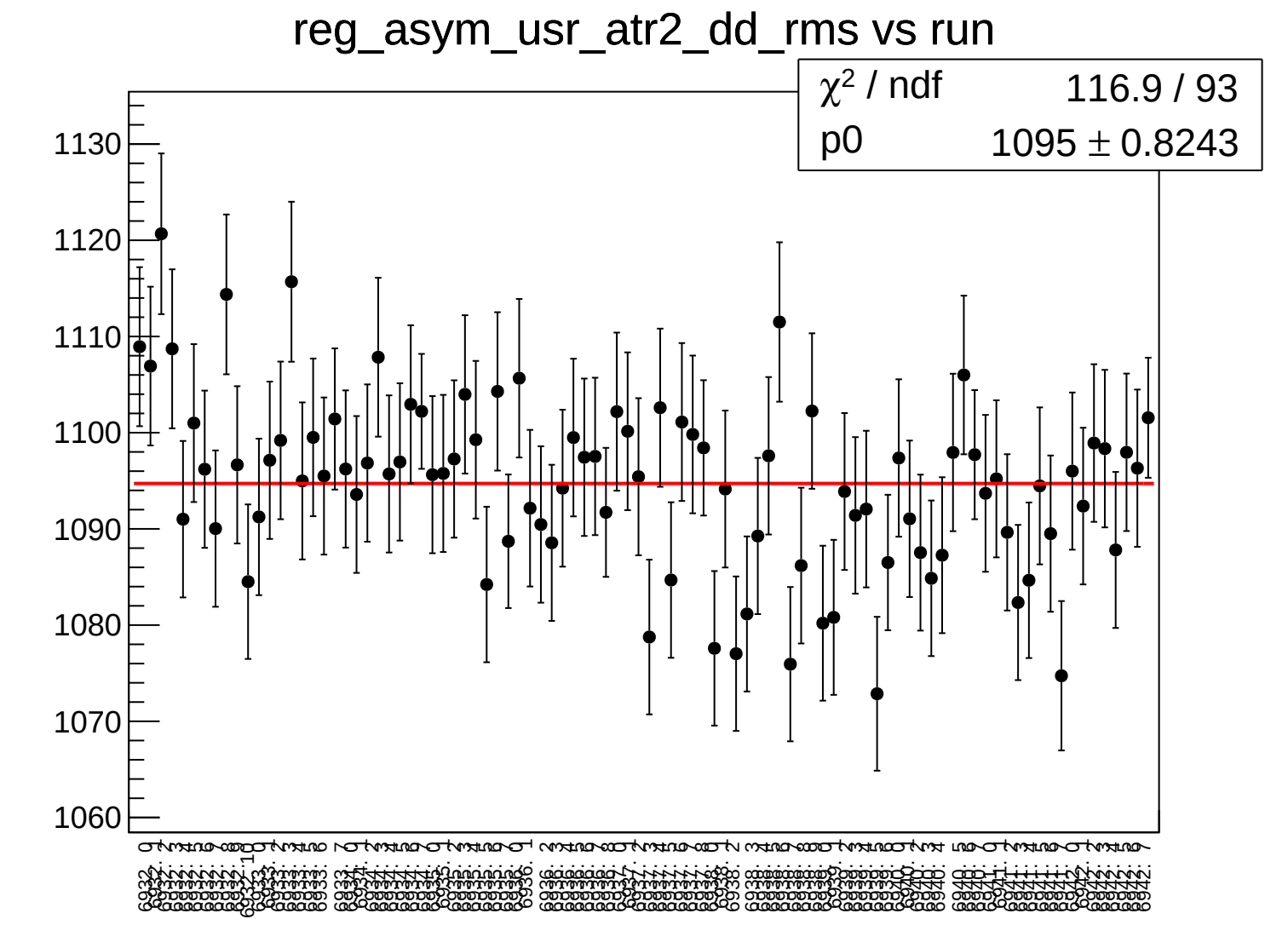

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.06 / 93
p0 3.718e−14 ± 1.364e−13
pull
Entries 94
Mean 65.79
Std Dev 31.92

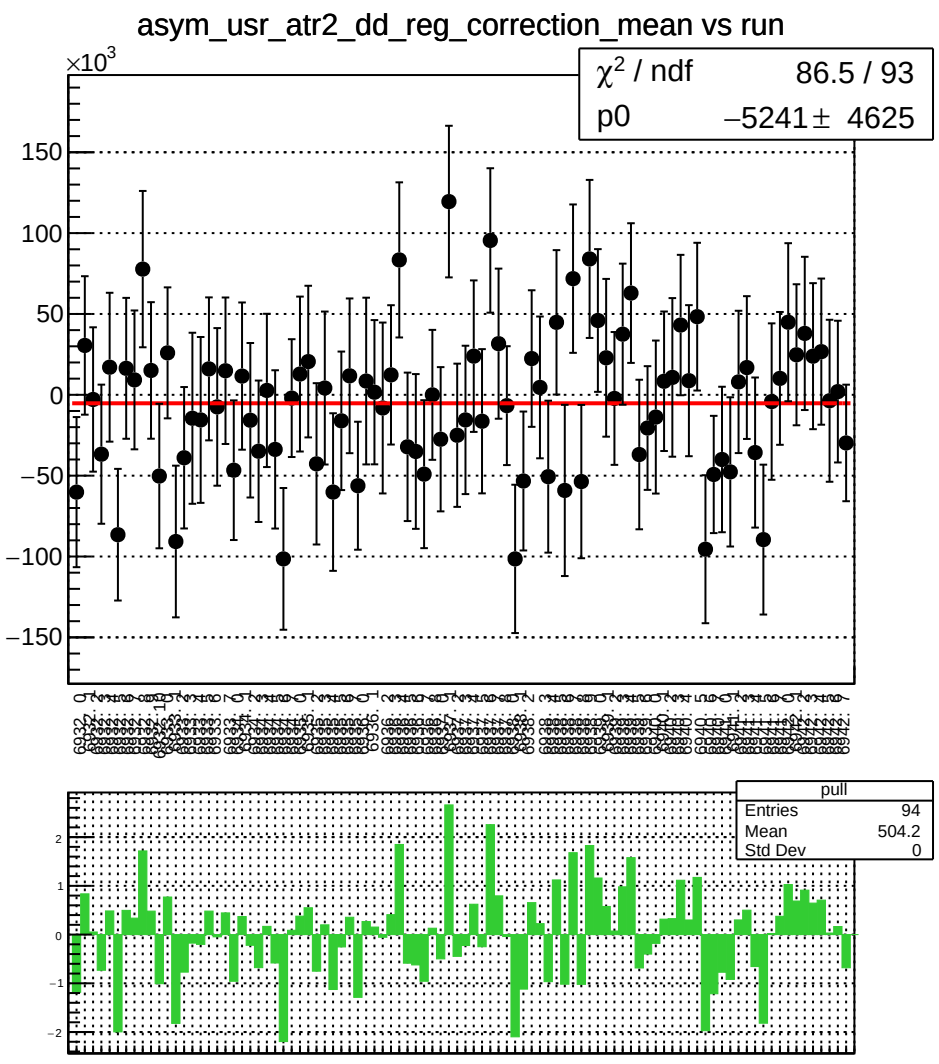

pull1D
Entries 94
Mean 0.1254
Std Dev 0.9143

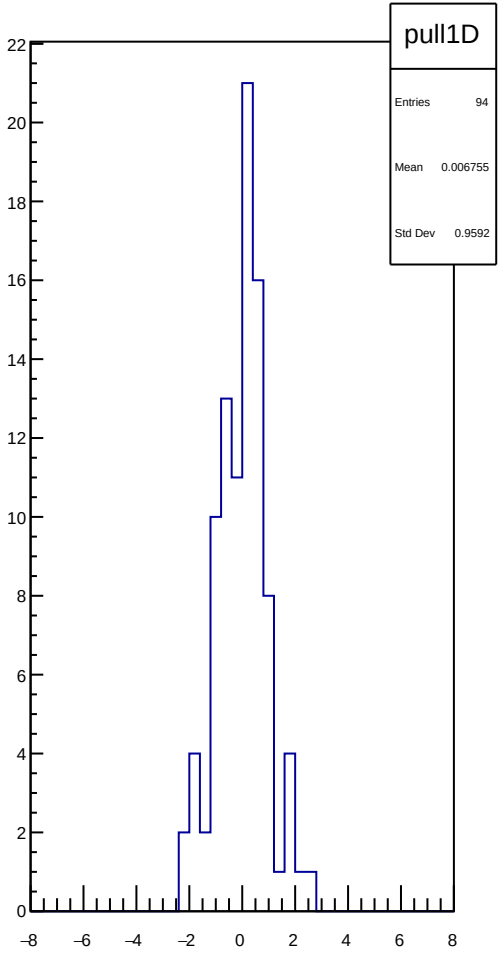

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.582e+05 / 93
p0 1.059e−10 ± 9.643e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

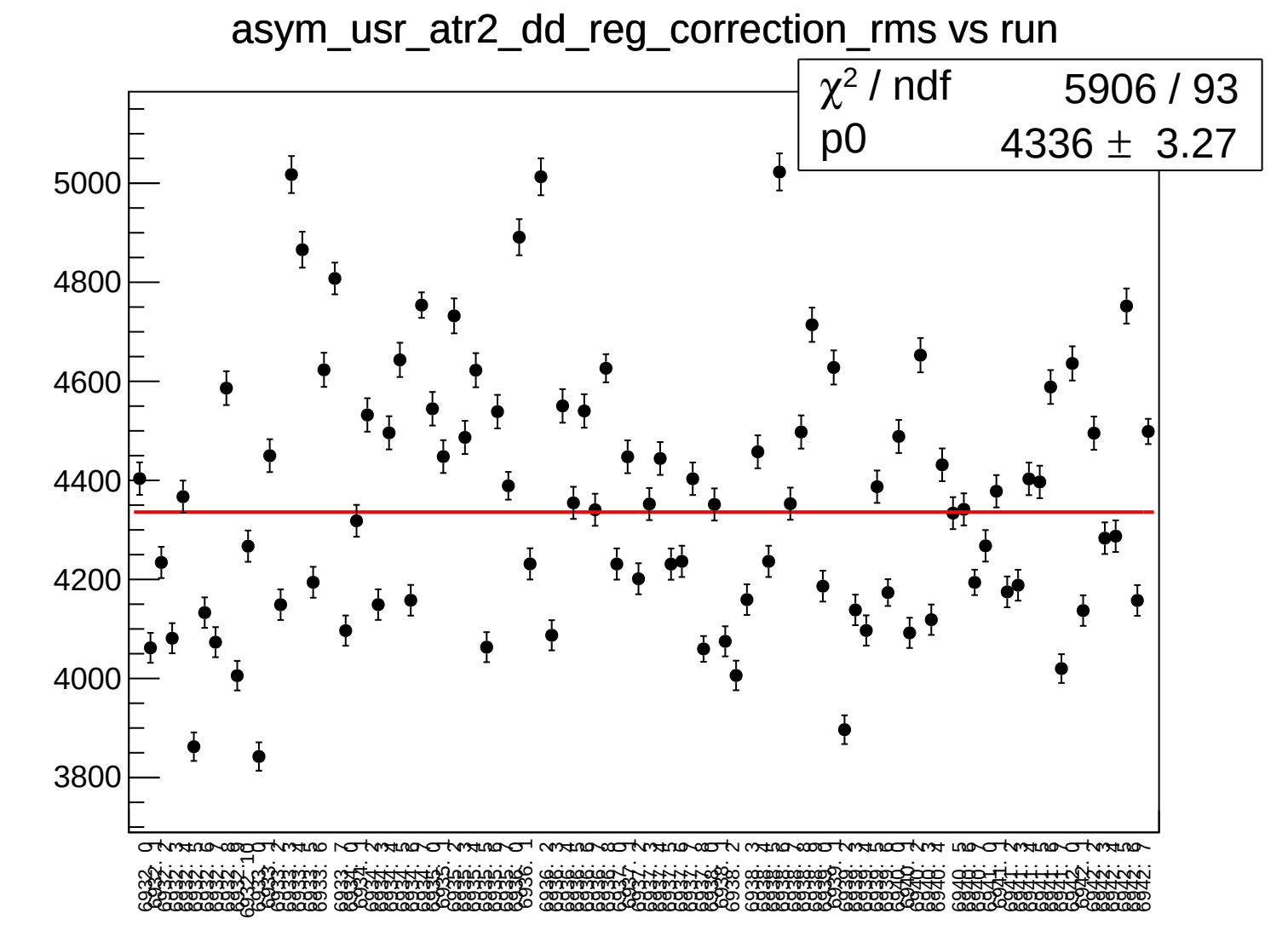

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 107 / 93
p0 −307.8 ± 1166
pull
Entries 94
Mean −122.9
Std Dev 0

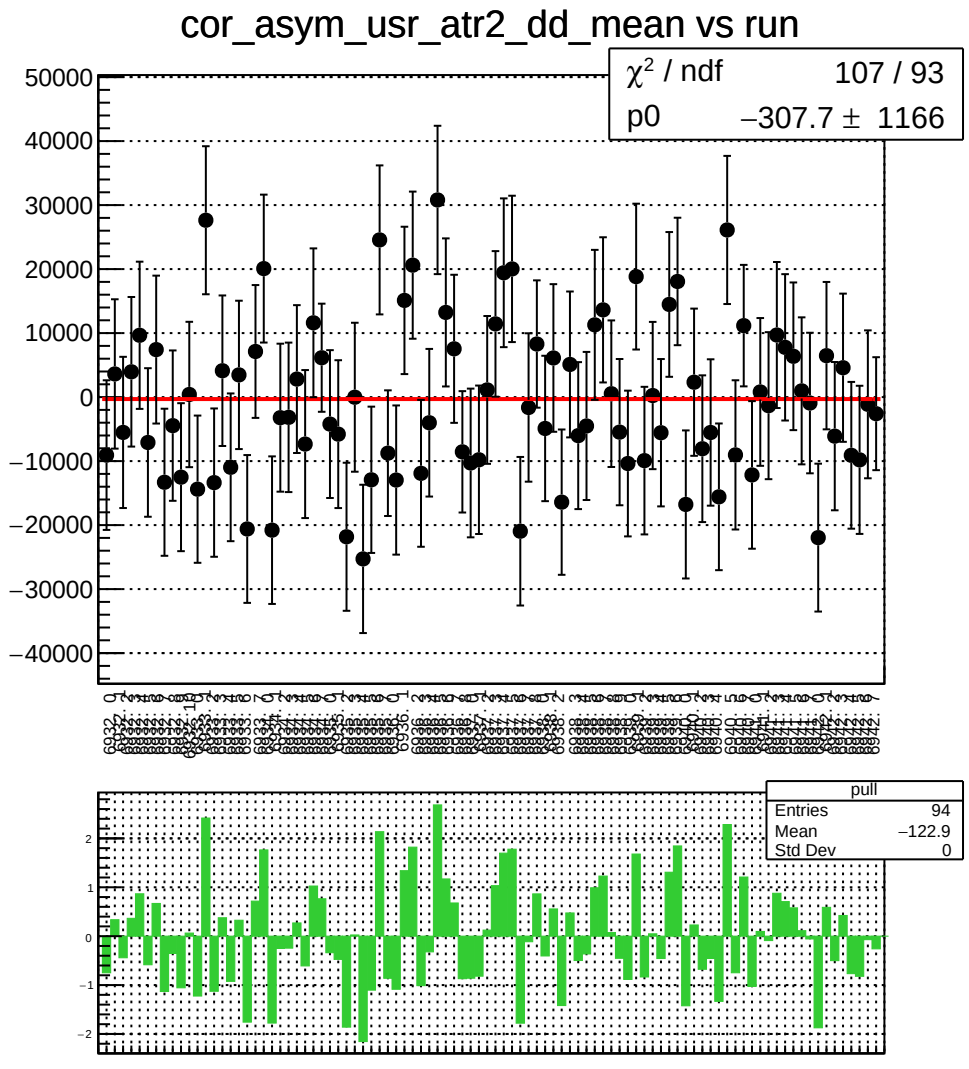

pull1D
Entries 94
Mean −0.007161
Std Dev 1.067

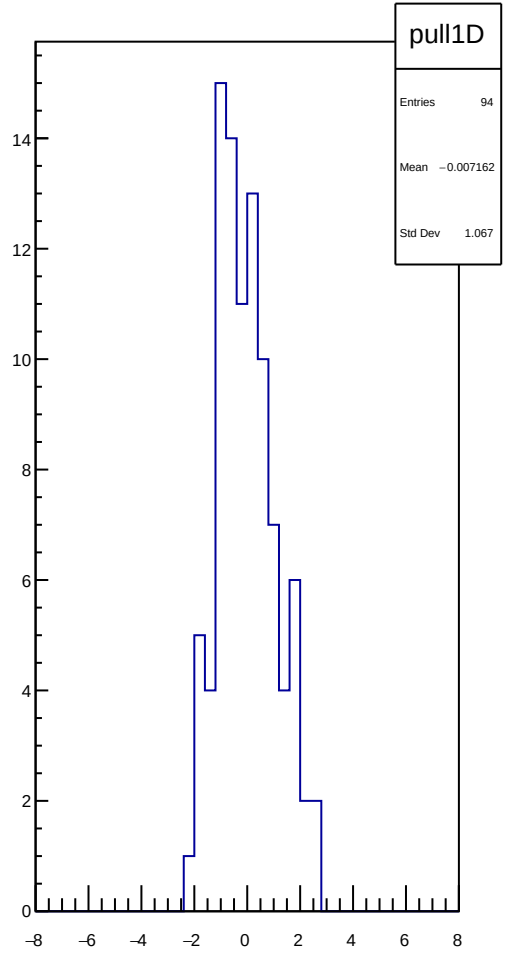

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 116.9 / 93
p0 1095 ± 0.8243
1130
1120
1110
1100
1090
1080
1070
1060

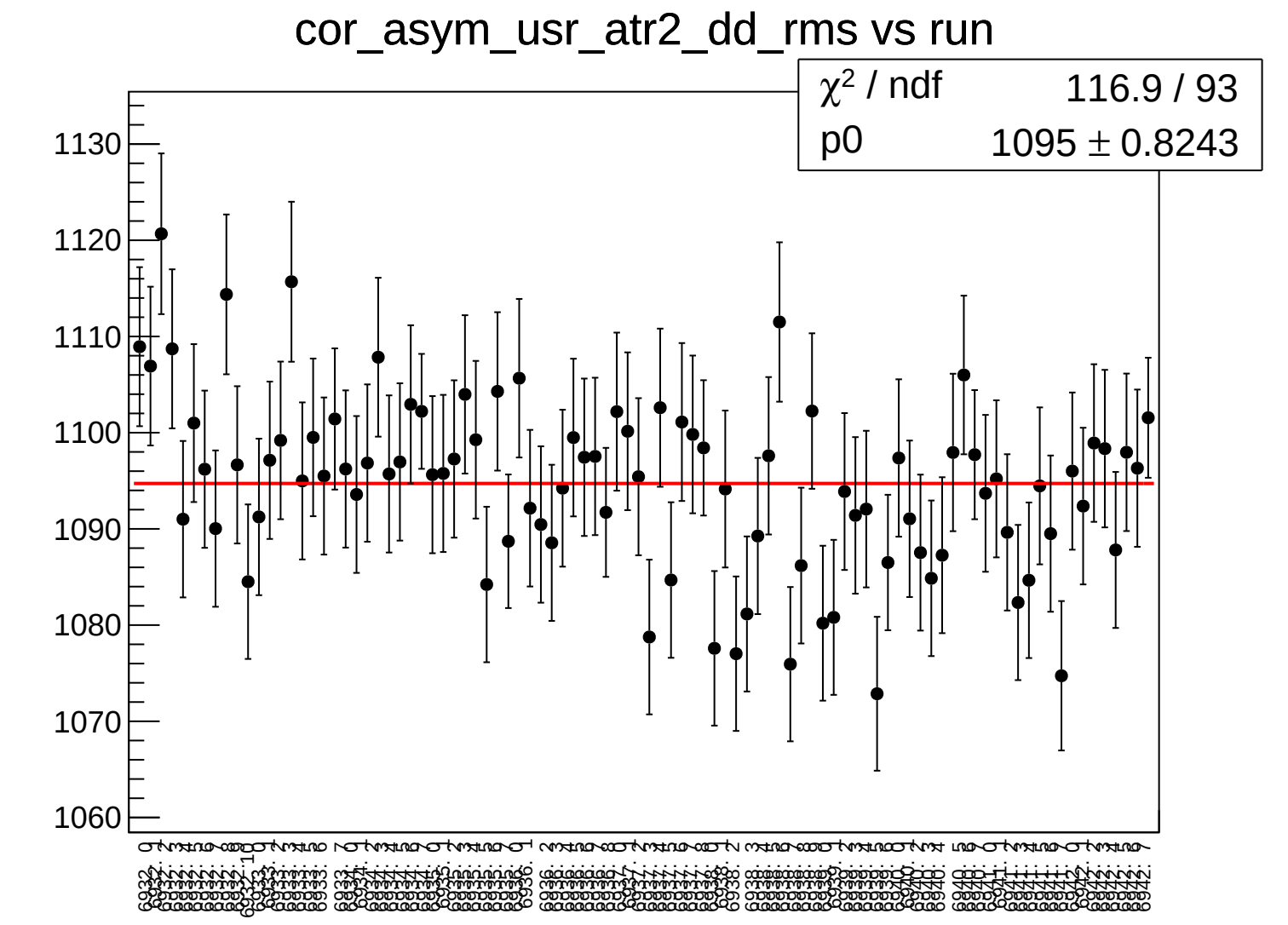

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −5241 ± 4625
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 504.2
Std Dev 0
2
1
0
−1
−2

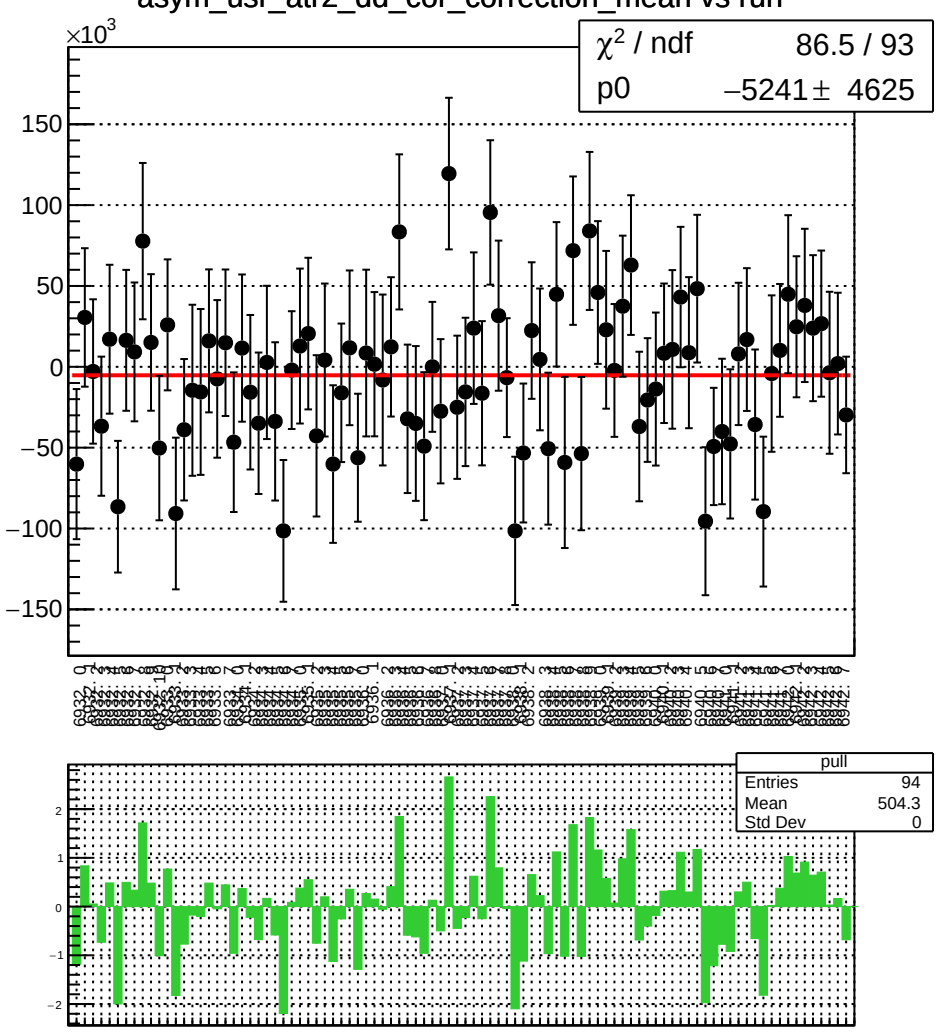

pull1D
Entries 94
Mean 0.006755
Std Dev 0.9592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

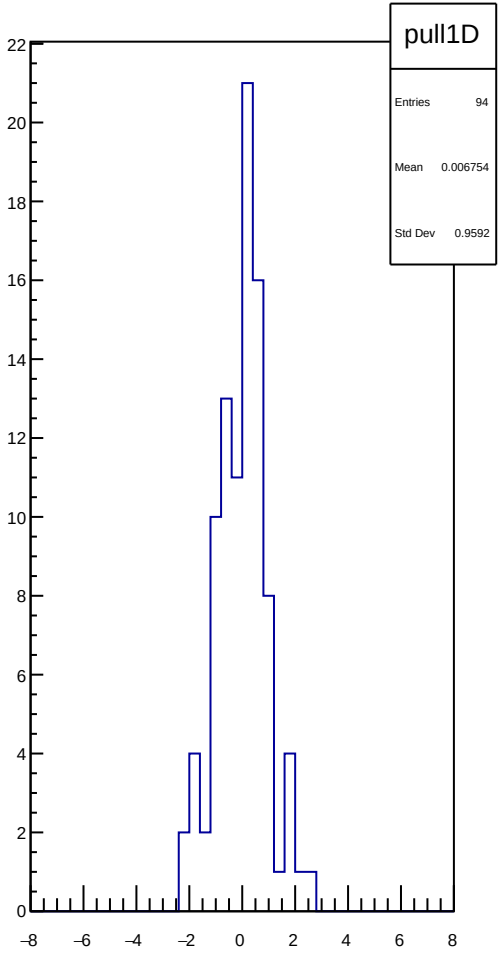

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 5906 / 93
p0 4336 ± 3.27
5000
4800
4600
4400
4200
4000
3800

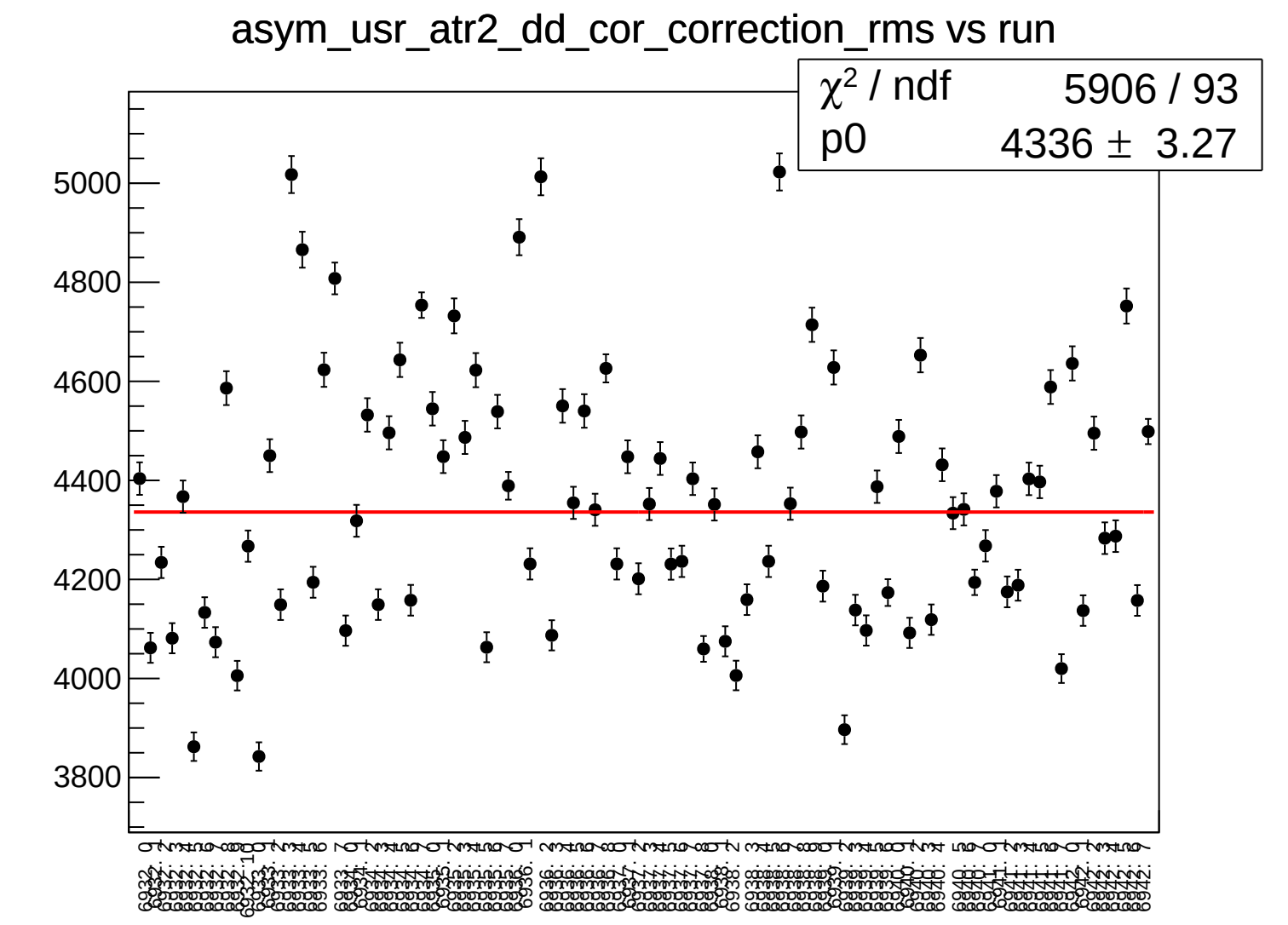

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 107 / 93
p0 −307.7 ± 1166
pull
Entries 94
Mean −122.9
Std Dev 0

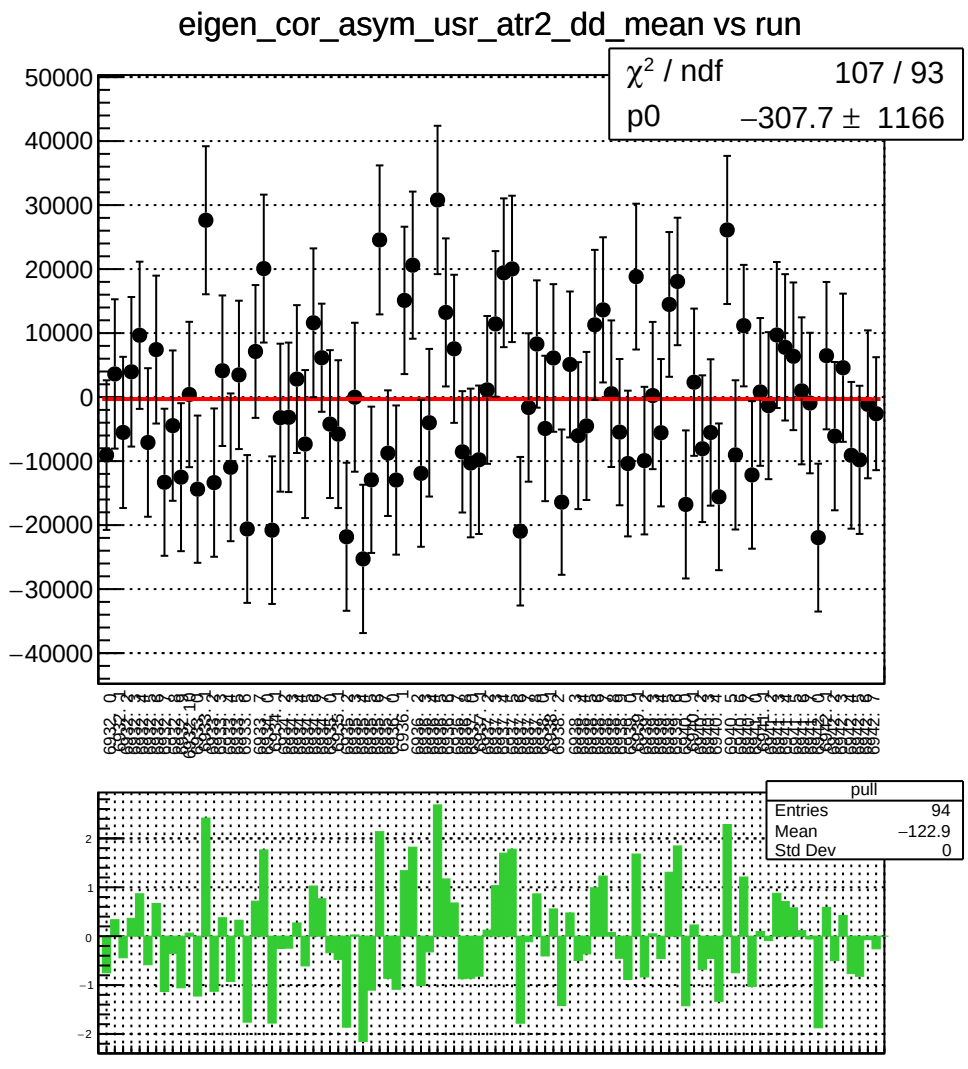

pull1D
Entries 94
Mean −0.007162
Std Dev 1.067

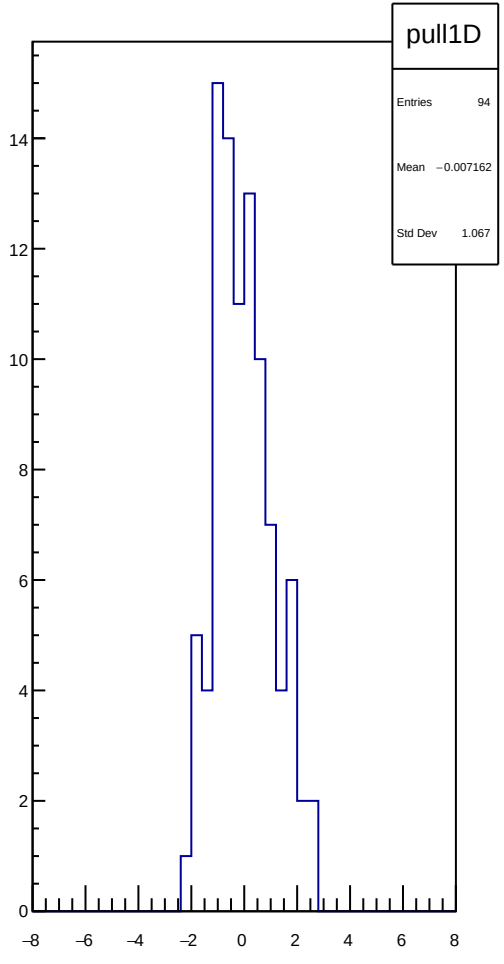

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 116.9 / 93
p0 1095 ± 0.8243
1130
1120
1110
1100
1090
1080
1070
1060

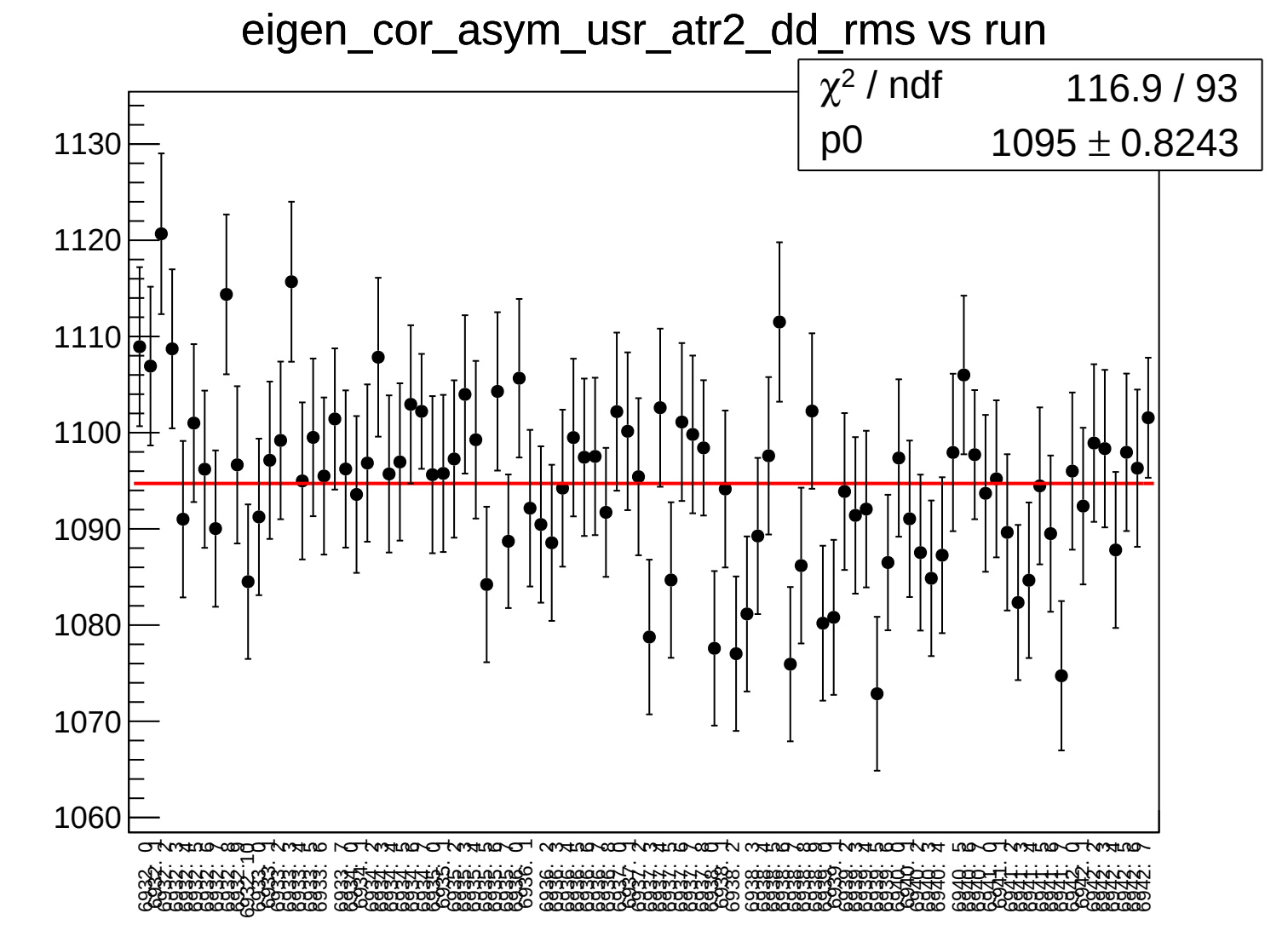

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.5 / 93
p0 −5241 ± 4625
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 504.3
Std Dev 0
2
1
0
−1
−2

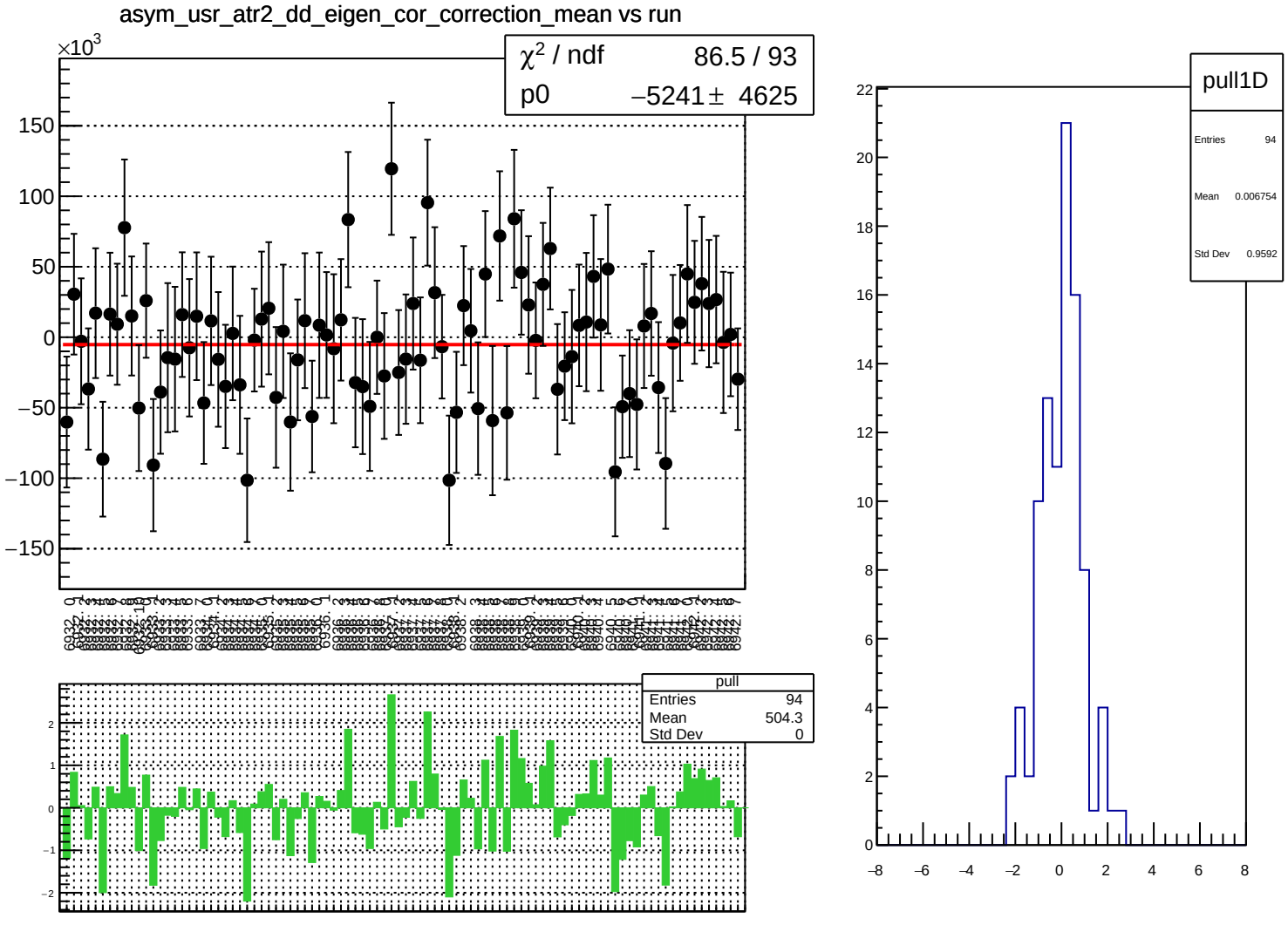

pull1D
Entries 94
Mean 0.006754
Std Dev 0.9592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

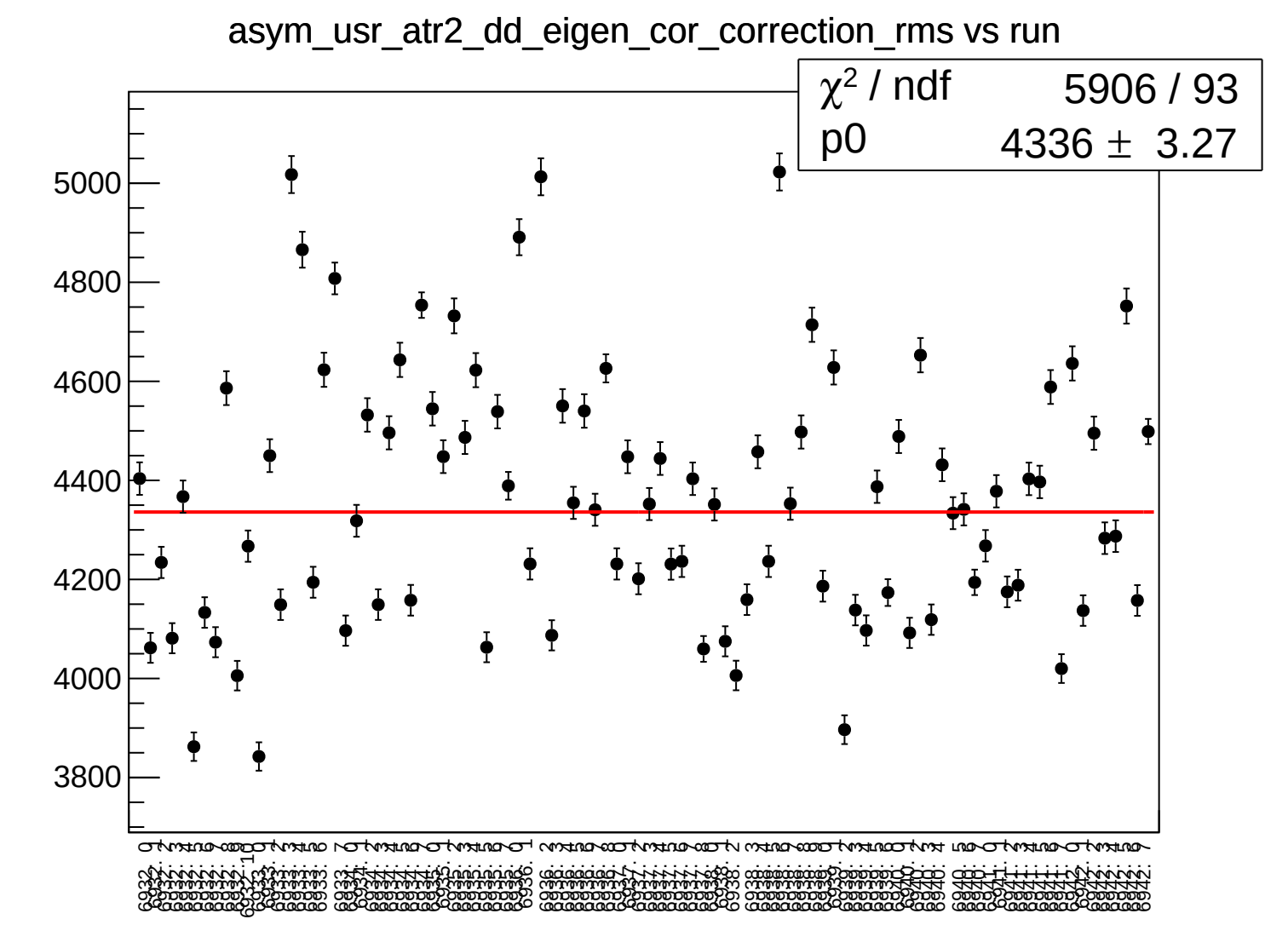

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 5906 / 93
p0 4336 ± 3.27
5000
4800
4600
4400
4200
4000
3800

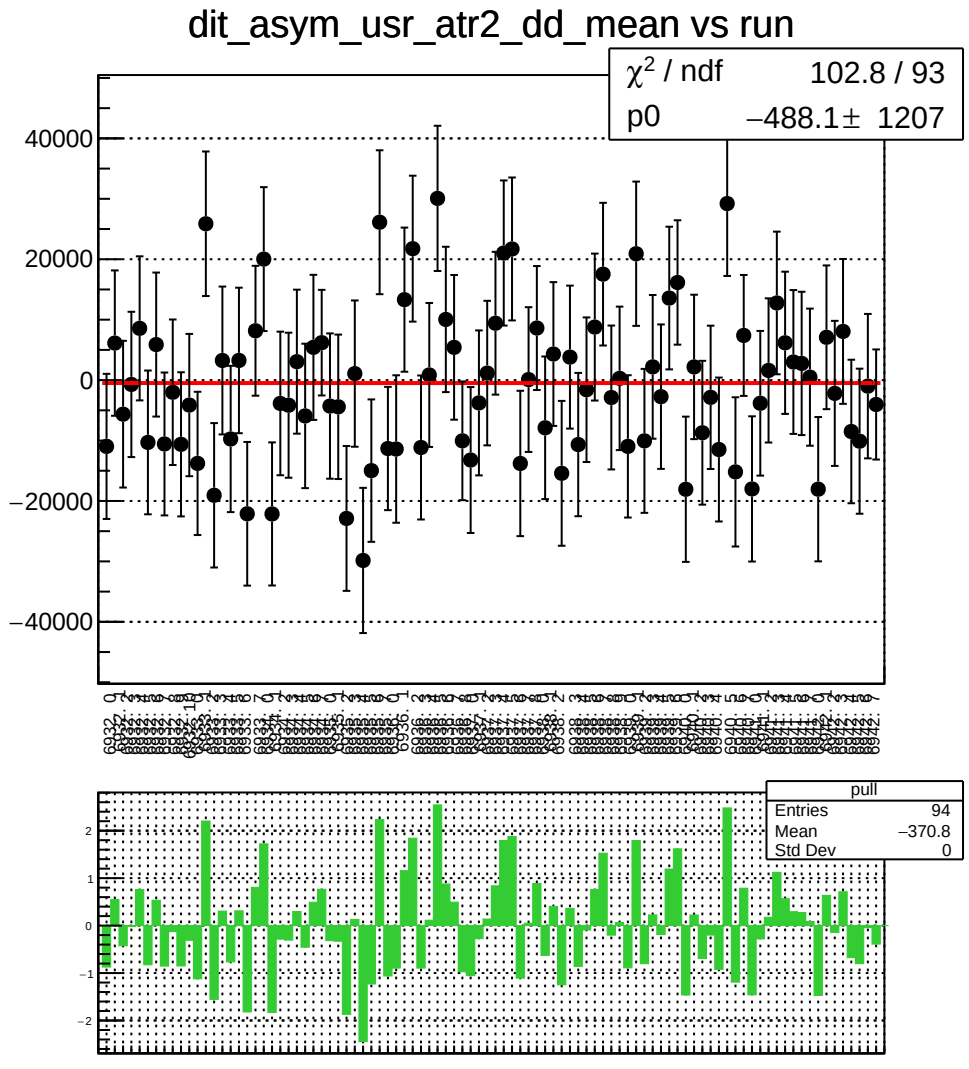

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 107 / 93
p0 −307.7 ± 1166
pull
Entries 94
Mean −122.9
Std Dev 0

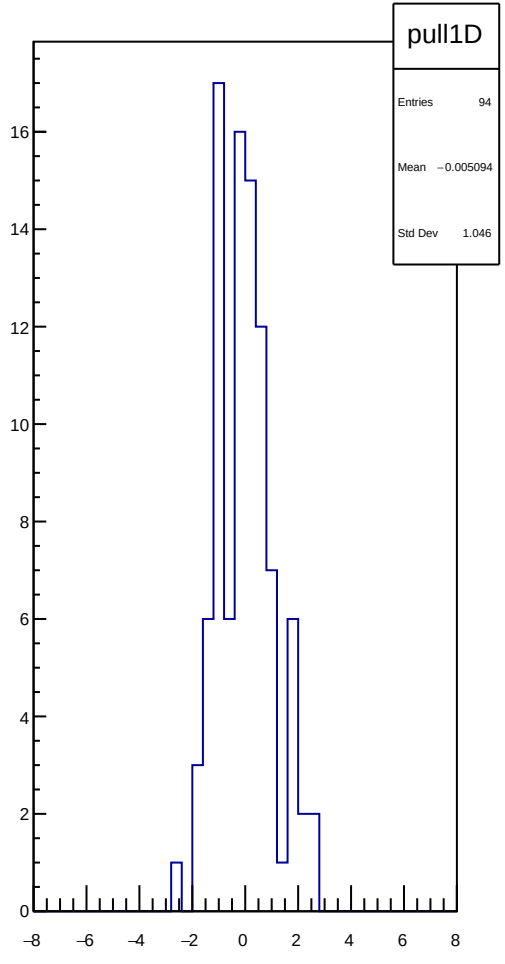

pull1D
Entries 94
Mean −0.007162
Std Dev 1.067

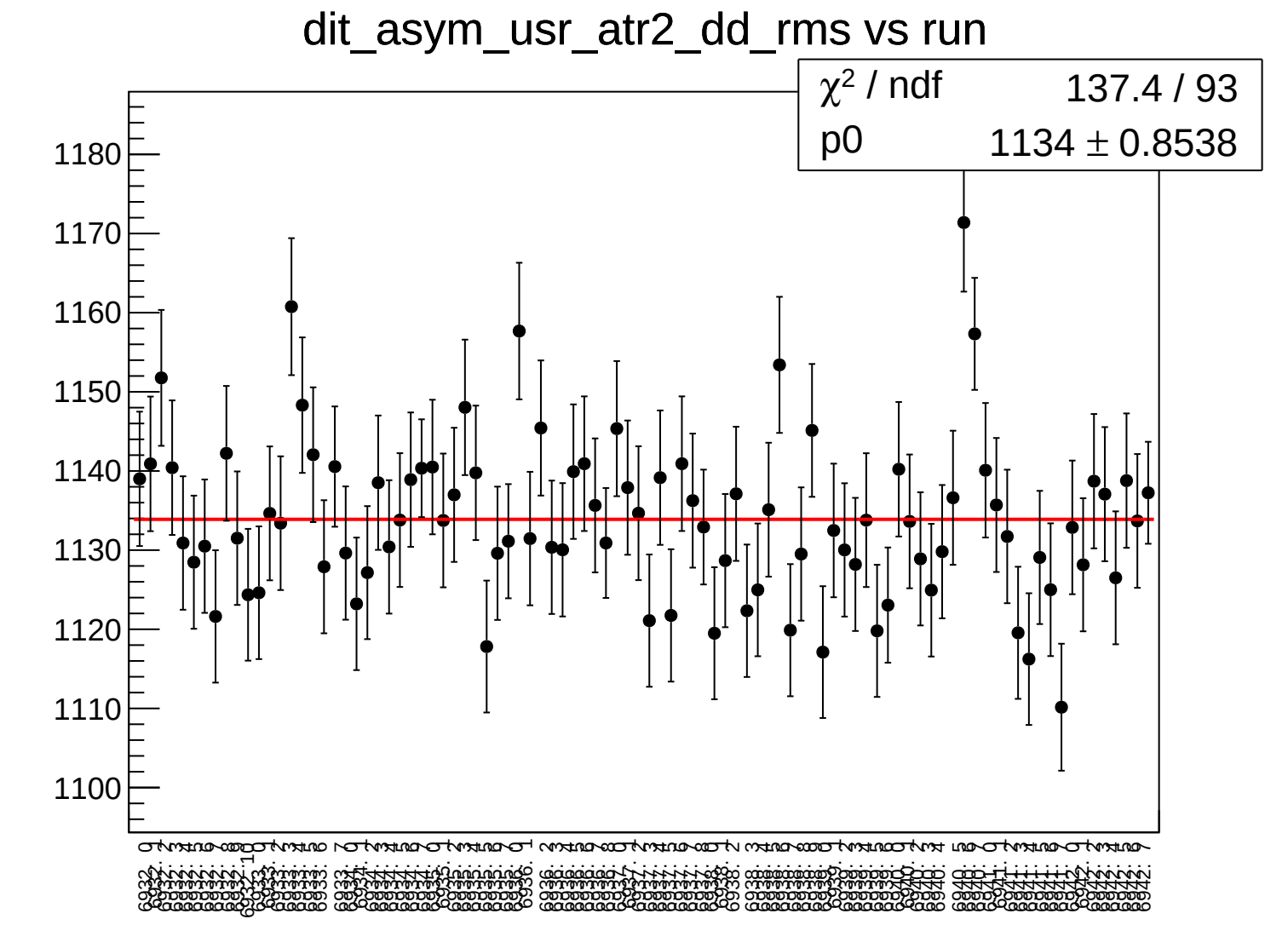

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 116.9 / 93
p0 1095 ± 0.8243
1130
1120
1110
1100
1090
1080
1070
1060

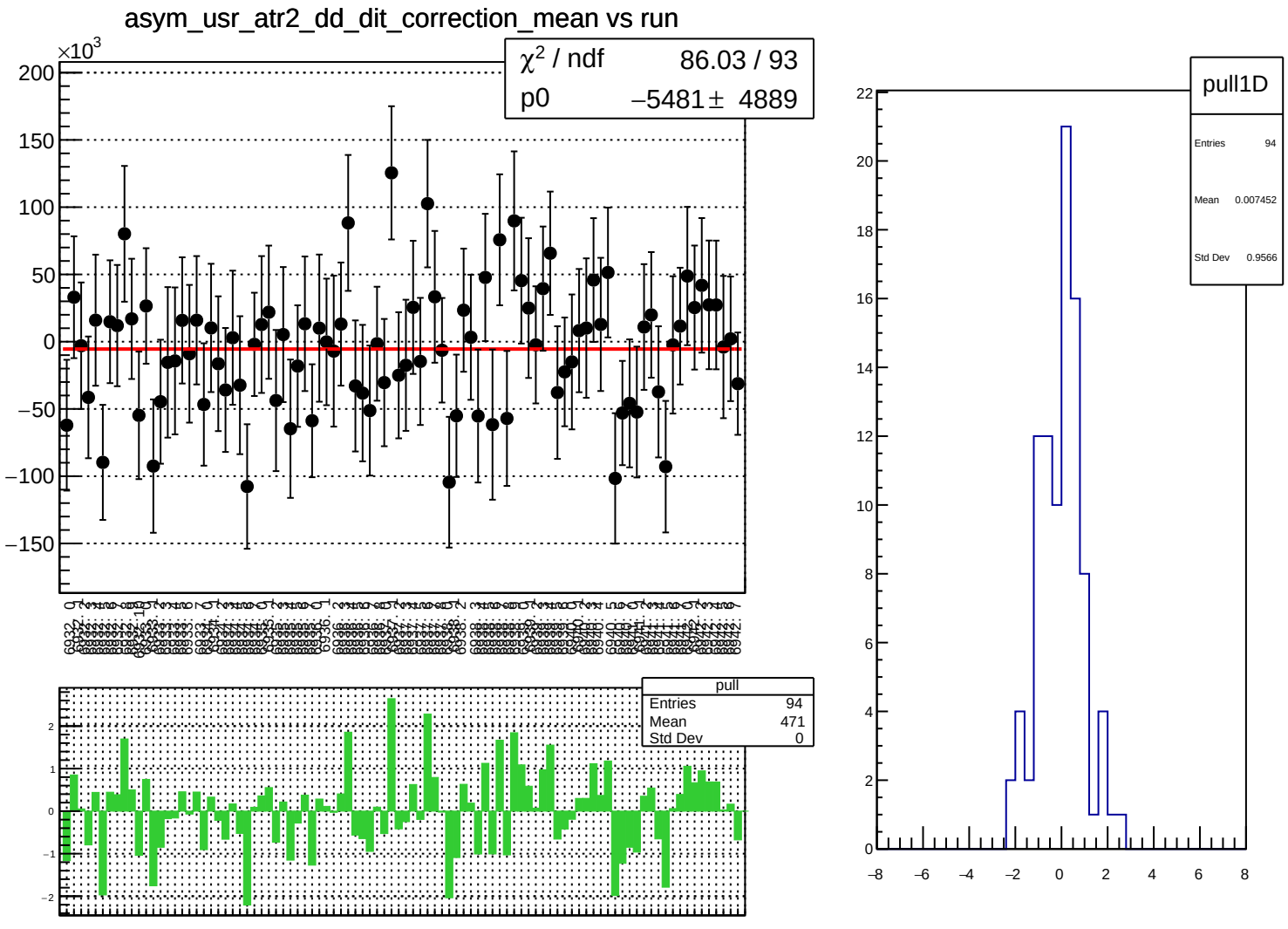

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.5 / 93
p0 −5241 ± 4625
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 504.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006754
Std Dev 0.9592
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

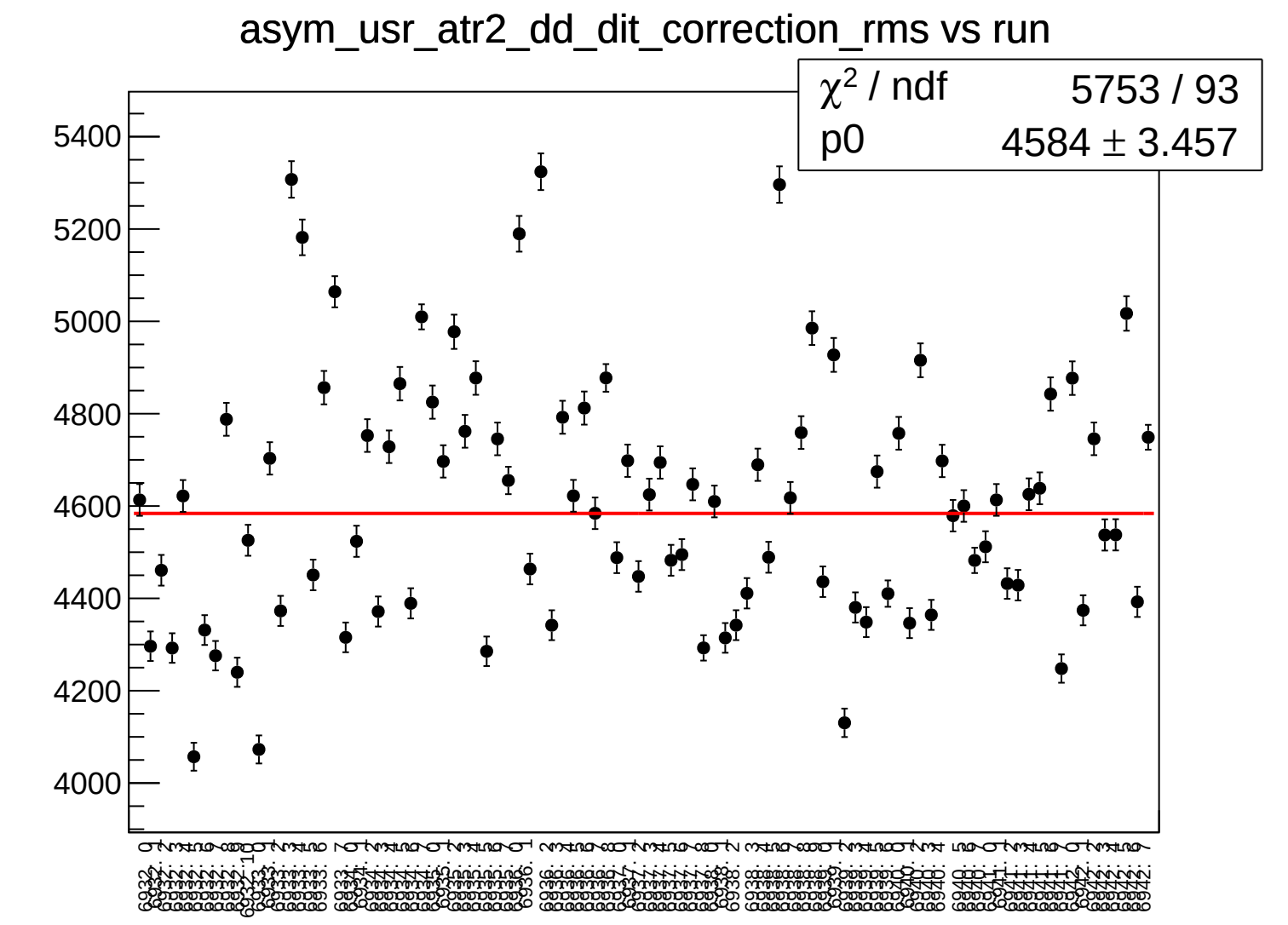

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5906 / 93
p0 4336 ± 3.27
5000
4800
4600
4400
4200
4000
3800

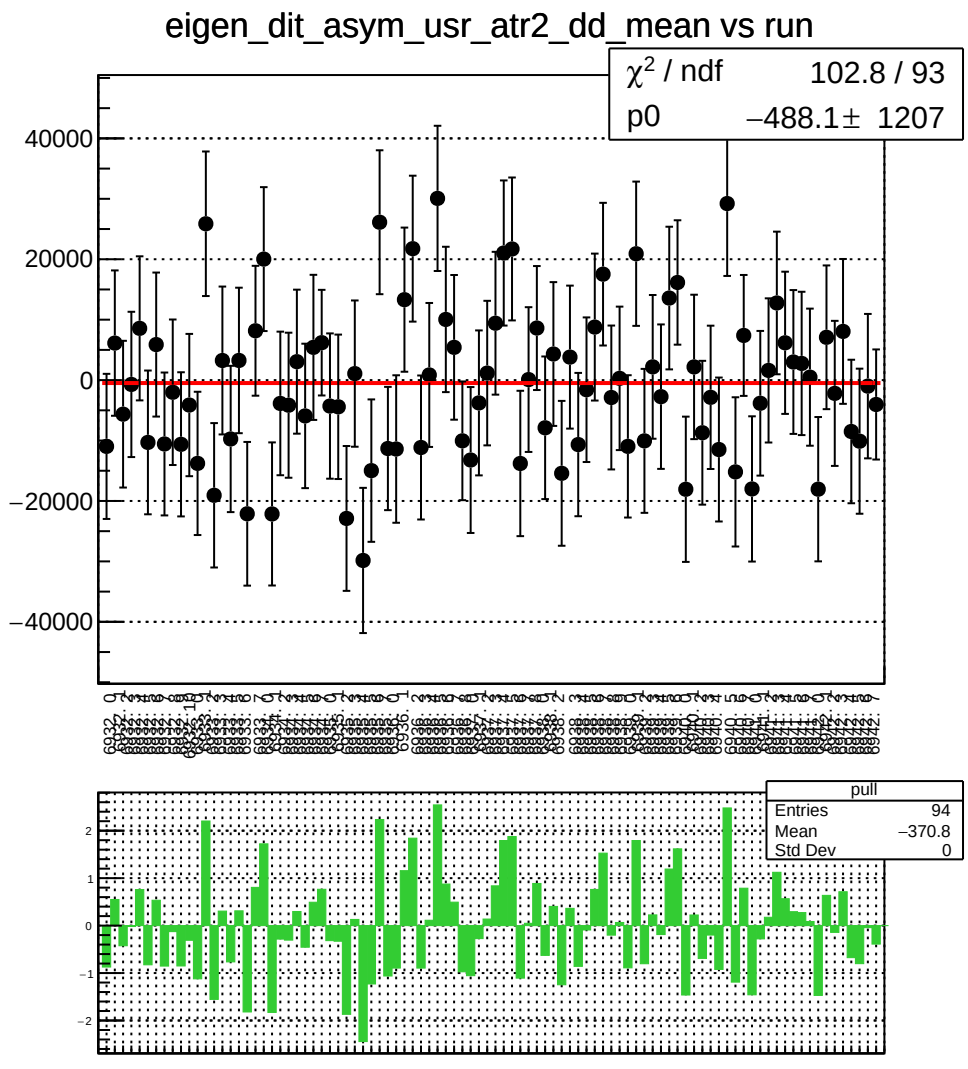

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 102.8 / 93
p0 −488.1± 1207
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −370.8
Std Dev 0
2
1
0
−1
−2

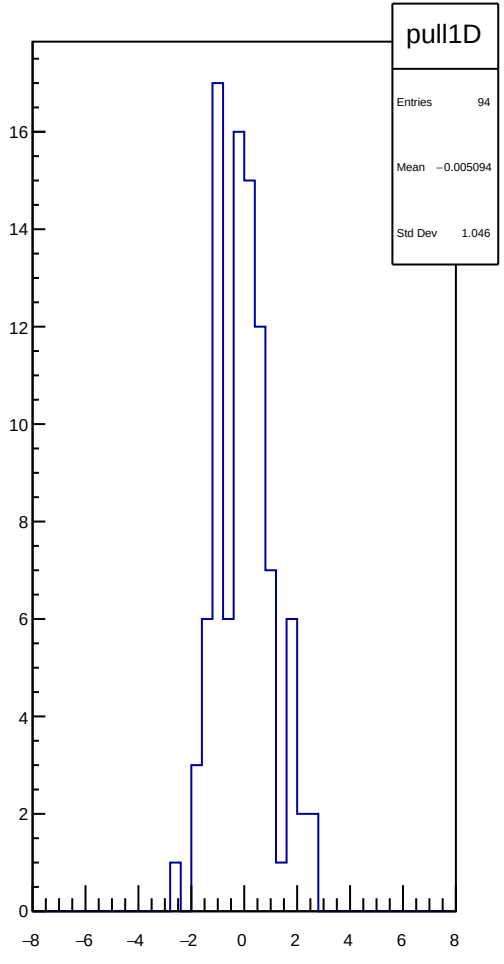

pull1D
Entries 94
Mean −0.005094
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

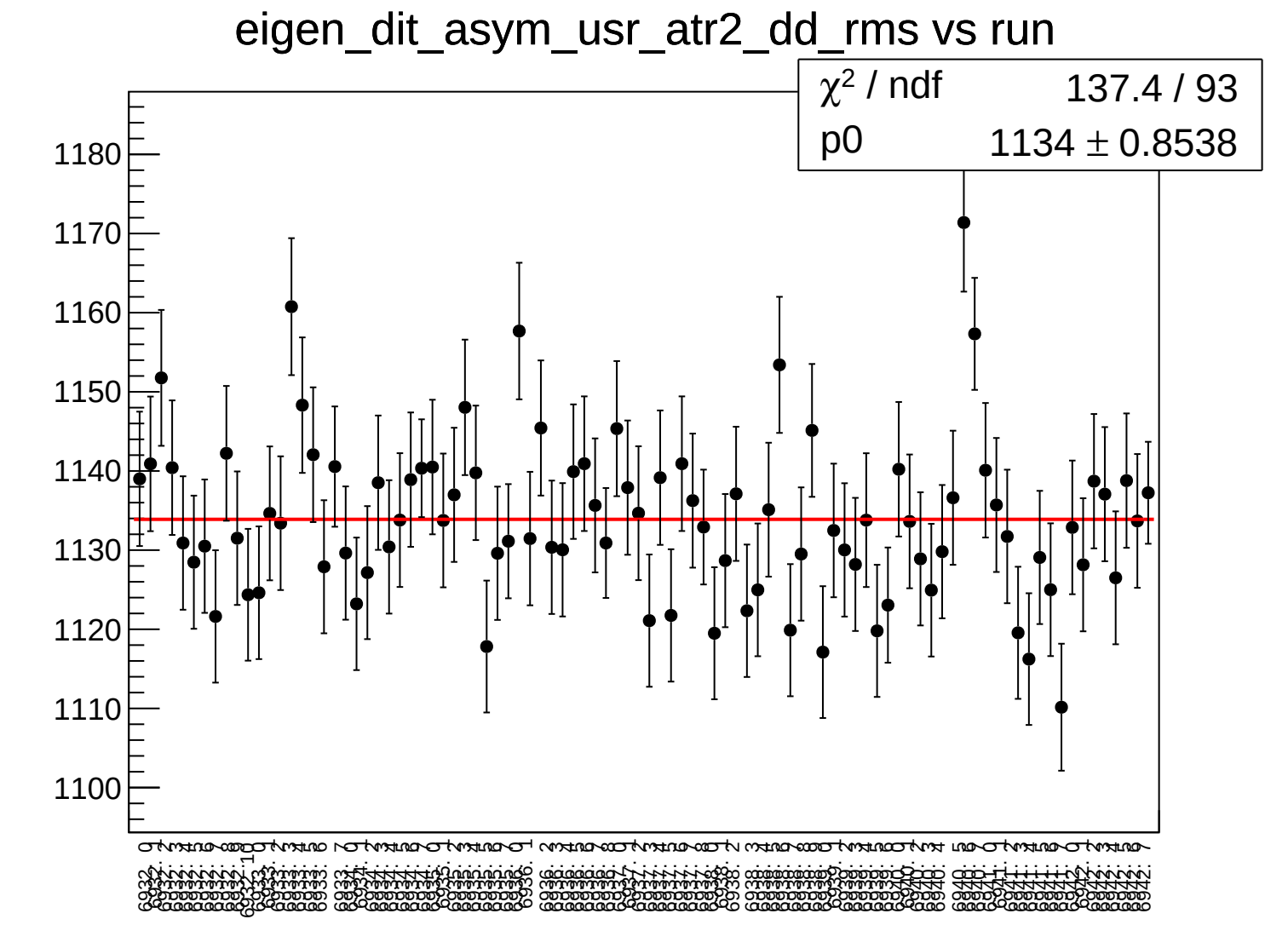

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 137.4 / 93
p0 1134 ± 0.8538
1180
1170
1160
1150
1140
1130
1120
1110
1100

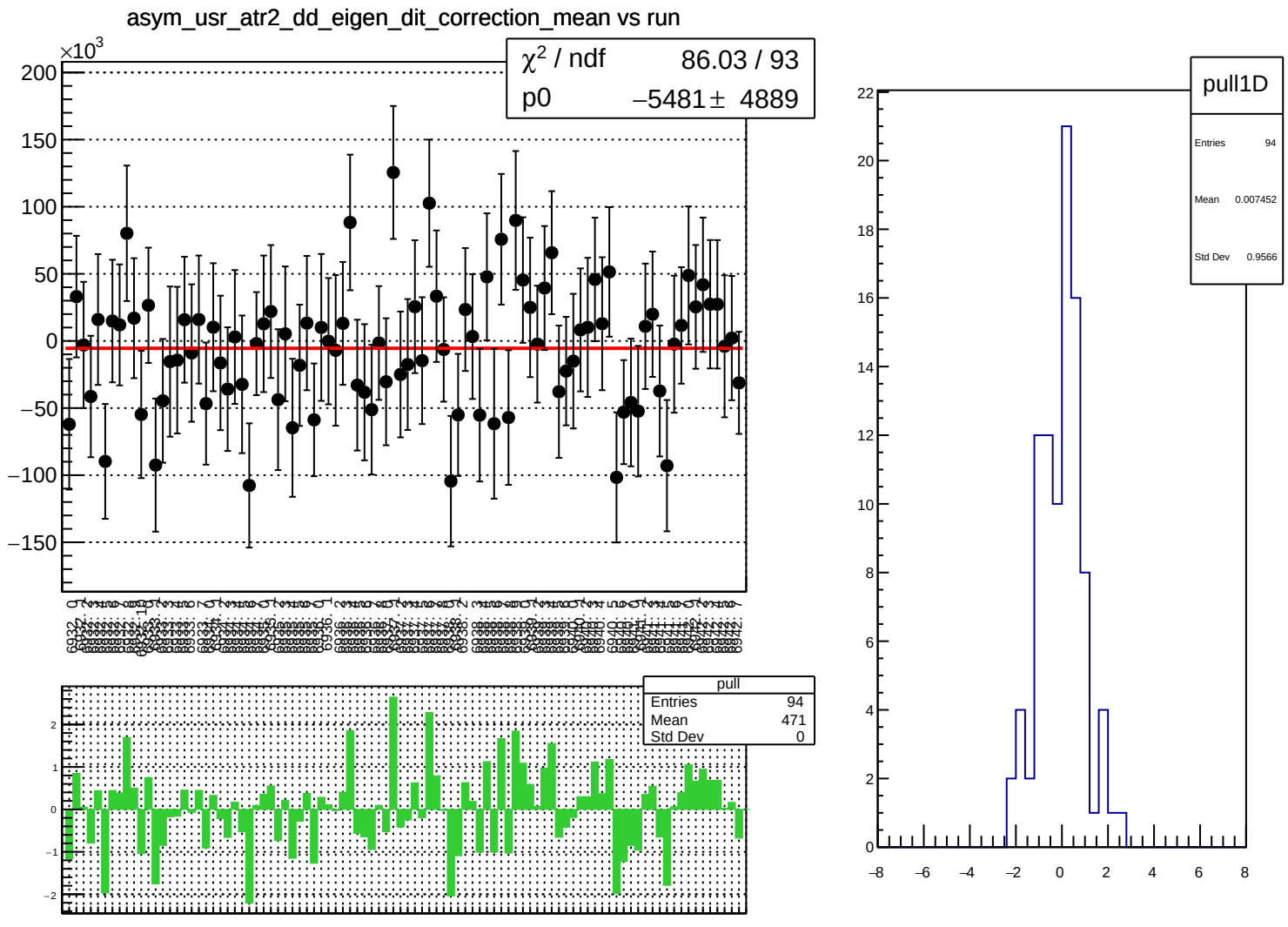

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.03 / 93
p0 −5481 ± 4889
pull
Entries 94
Mean 471
Std Dev 0
pull1D
Entries 94
Mean 0.007452
Std Dev 0.9566

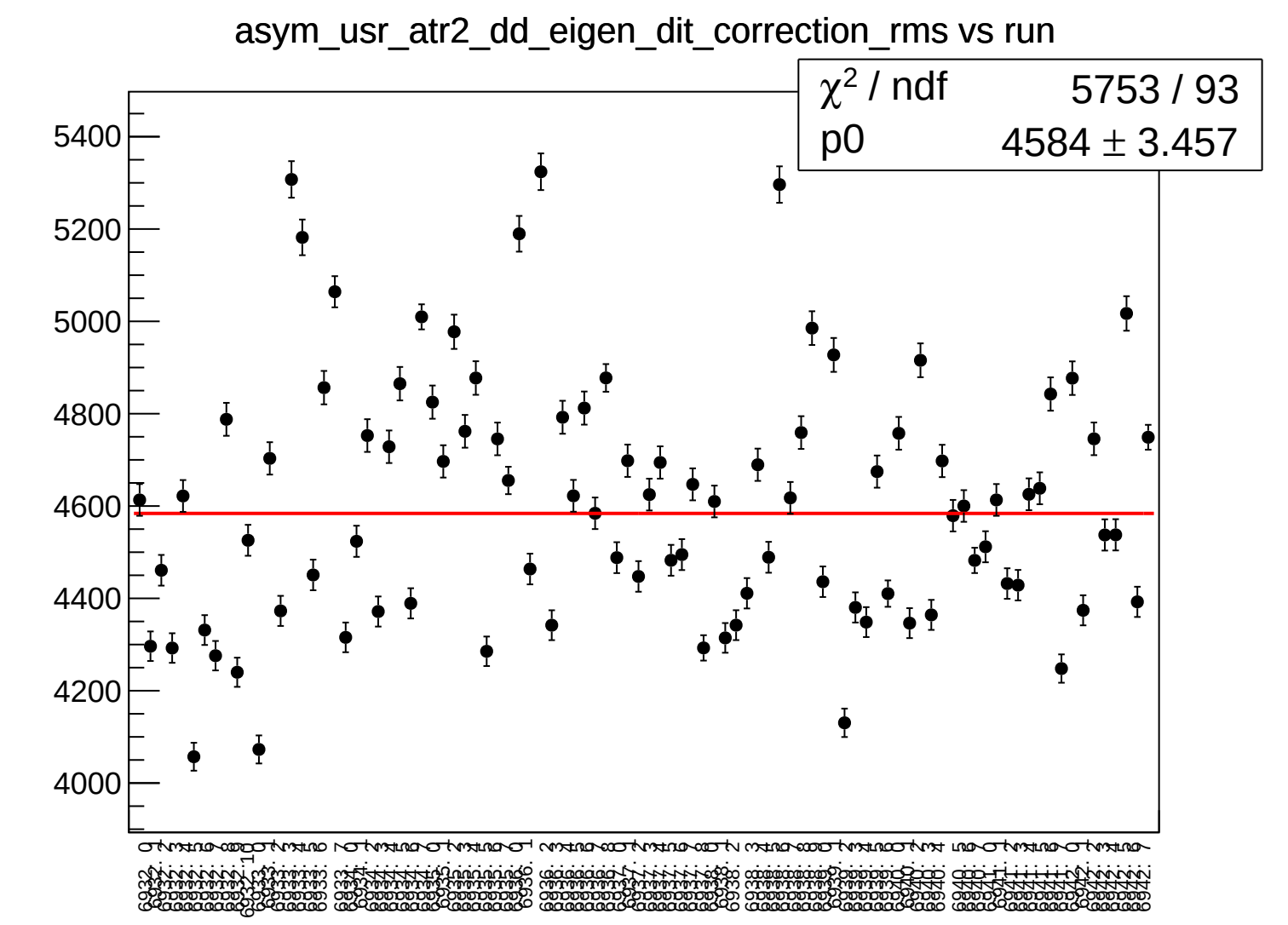

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 5753 / 93
p0 4584 ± 3.457
5400
5200
5000
4800
4600
4400
4200
4000

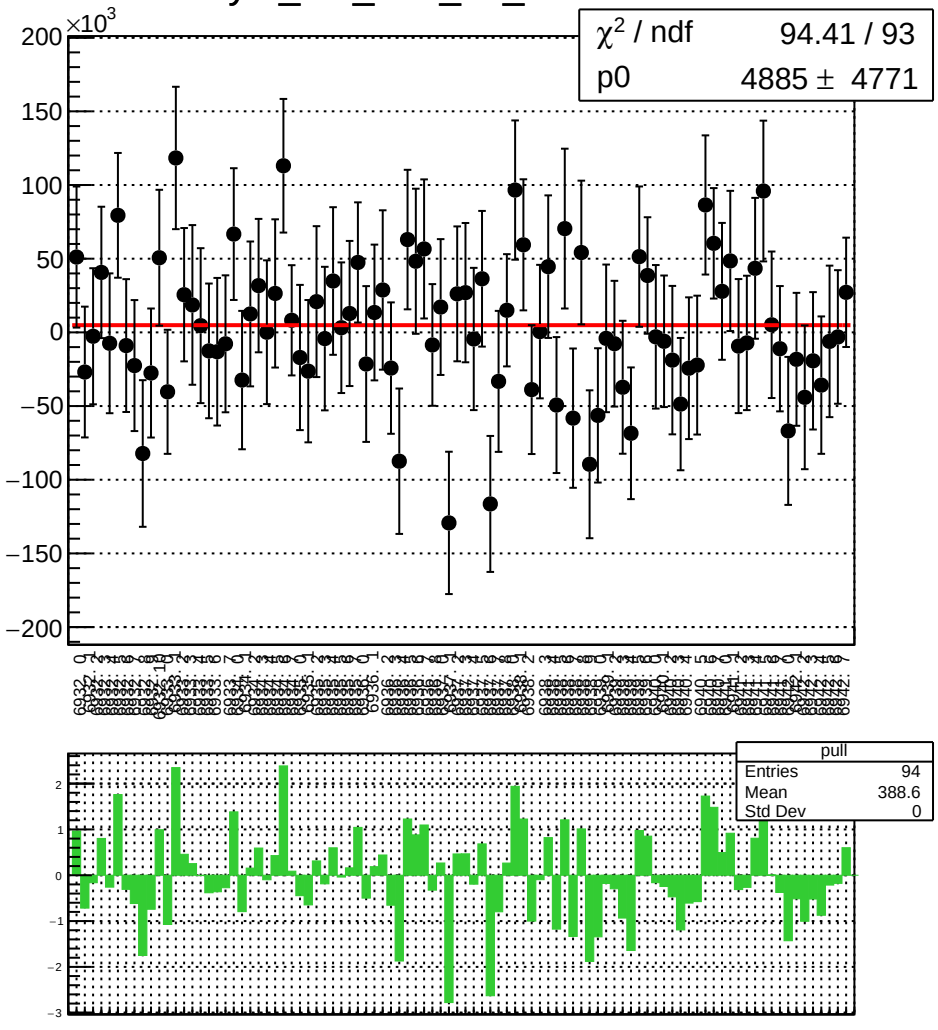

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 102.8 / 93
p0 −488.1± 1207
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −370.8
Std Dev 0
2
1
0
−1
−2

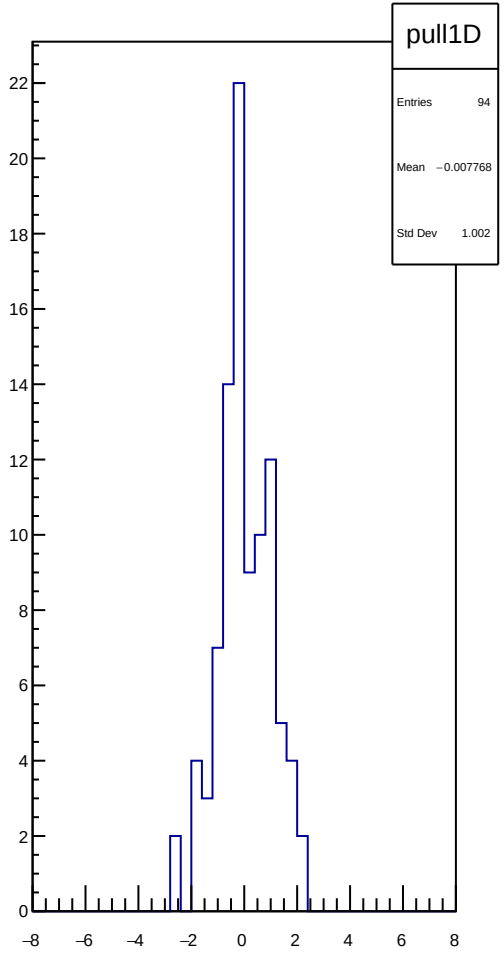

pull1D
Entries 94
Mean −0.005094
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

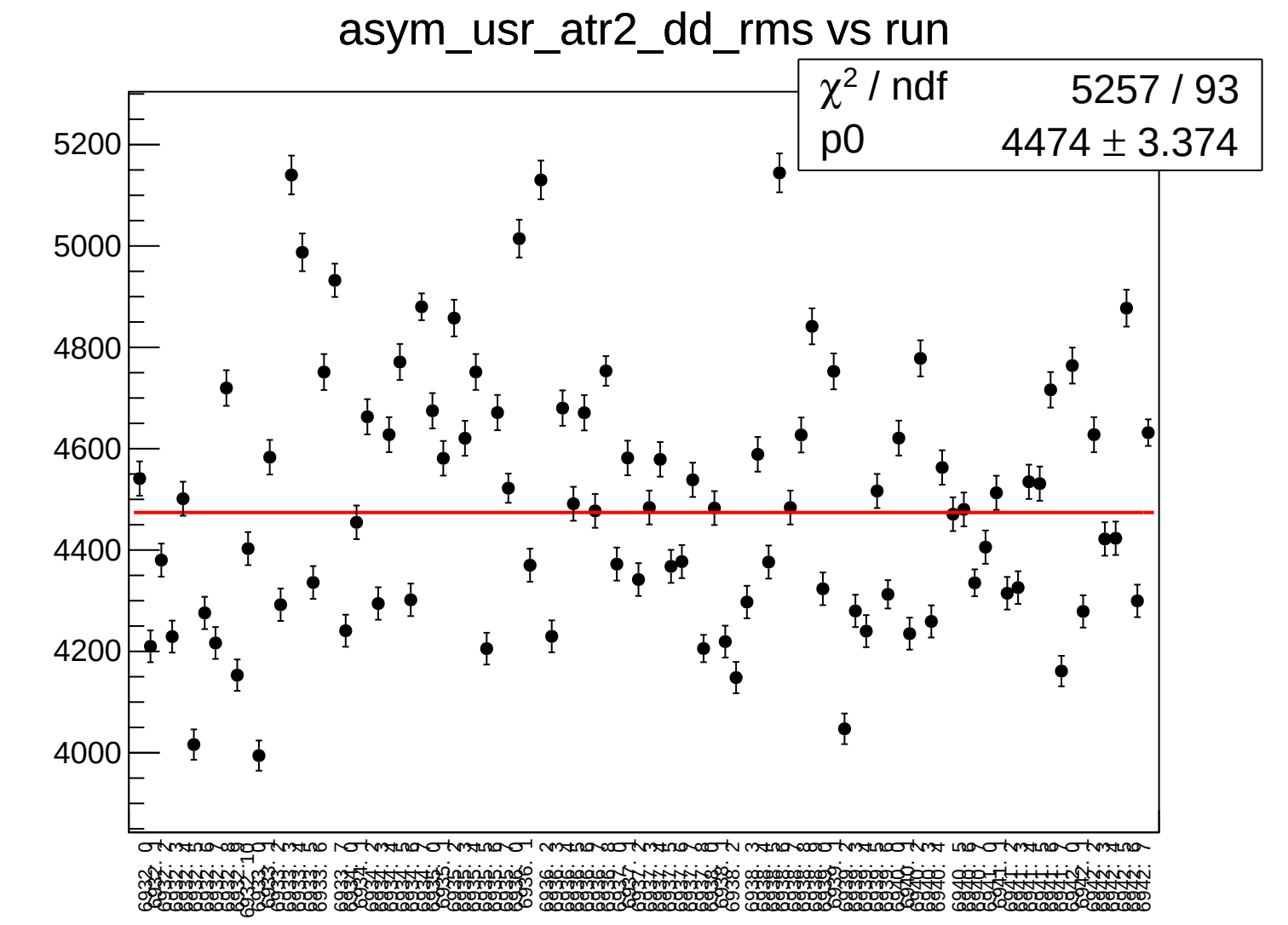

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 137.4 / 93
p0 1134 ± 0.8538
1180
1170
1160
1150
1140
1130
1120
1110
1100

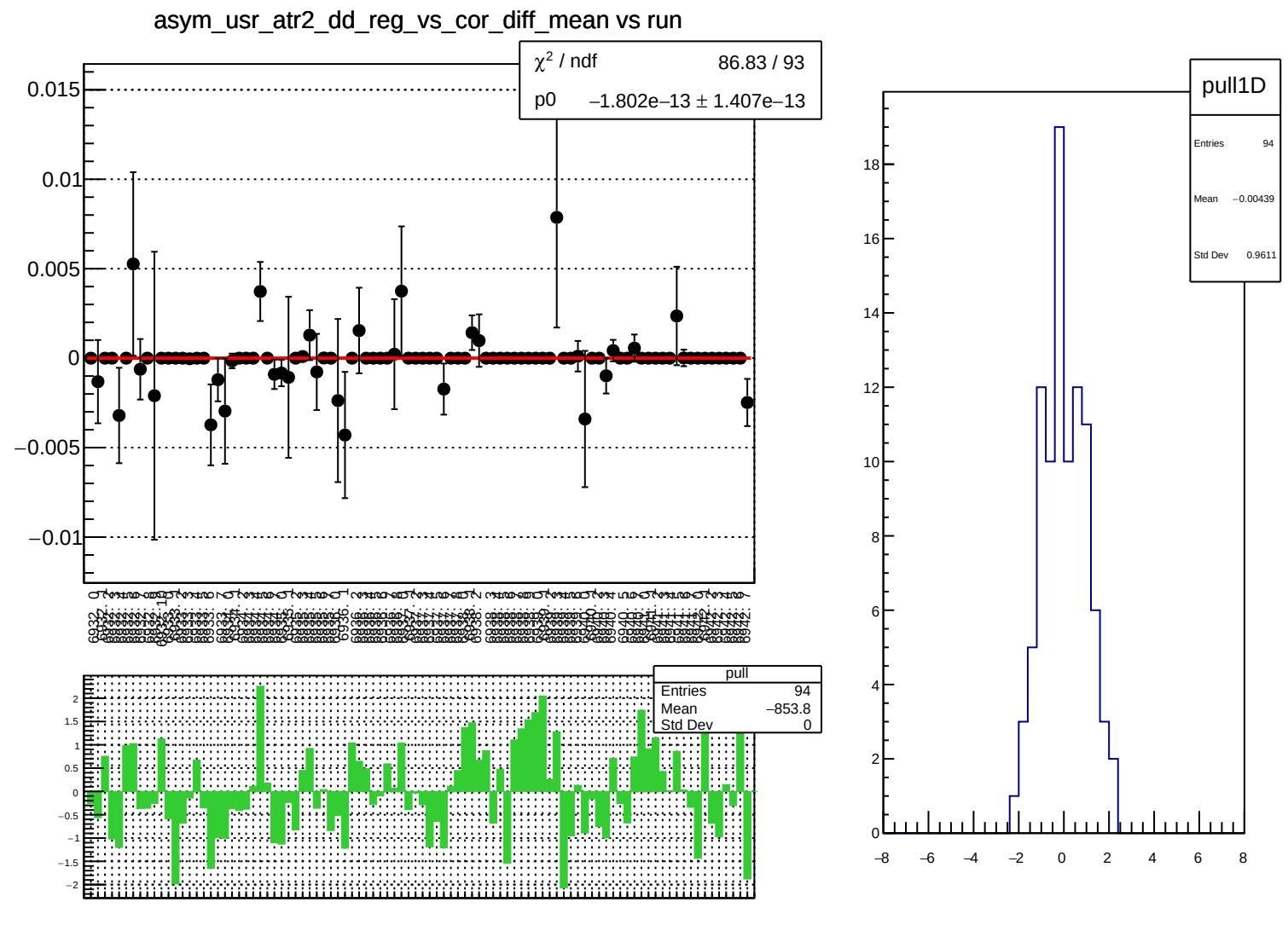

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.03 / 93
p0 −5481 ± 4889
pull
Entries 94
Mean 471
Std Dev 0
pull1D
Entries 94
Mean 0.007452
Std Dev 0.9566

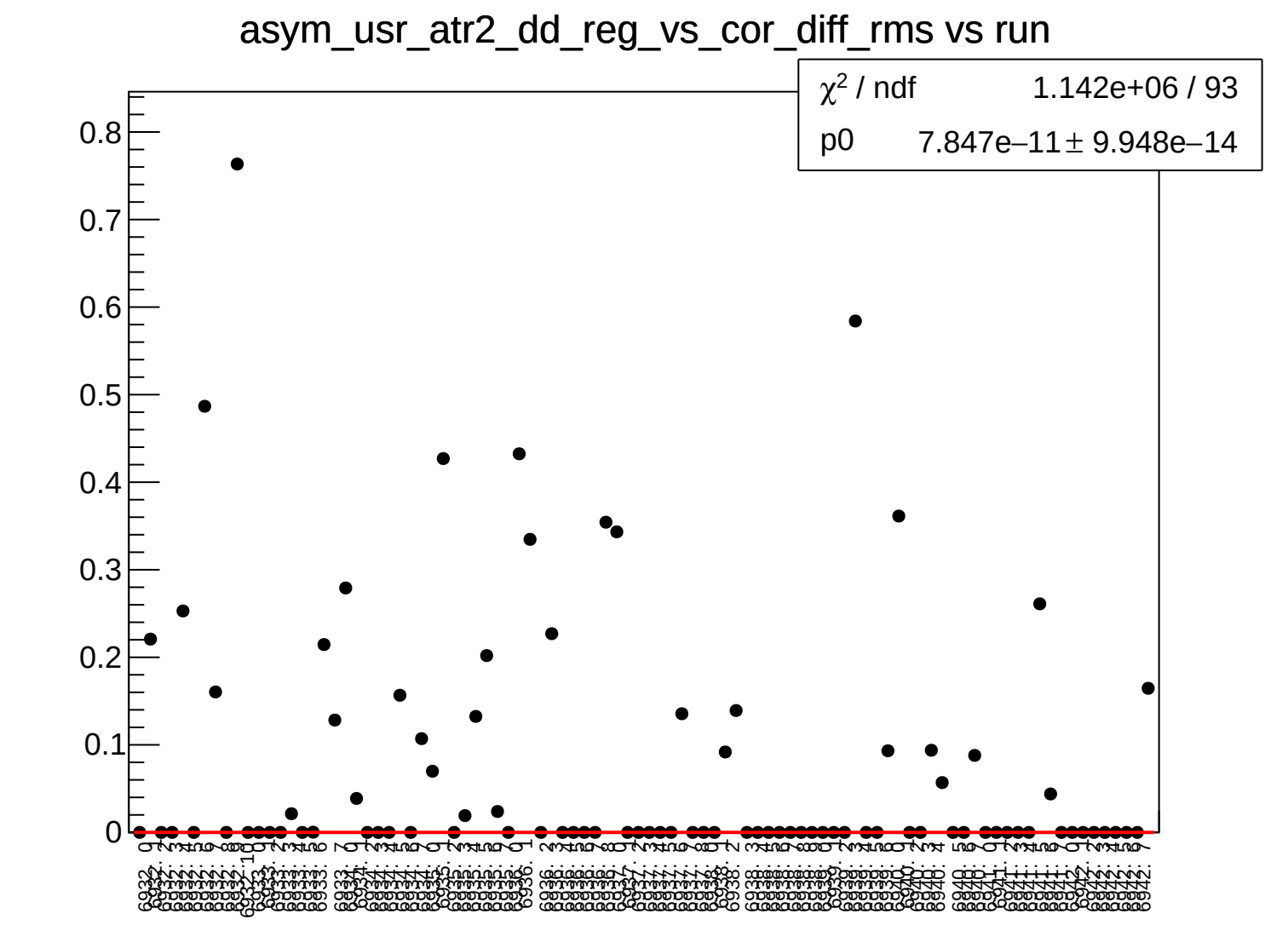

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 5753 / 93
p0 4584 ± 3.457
5400
5200
5000
4800
4600
4400
4200
4000

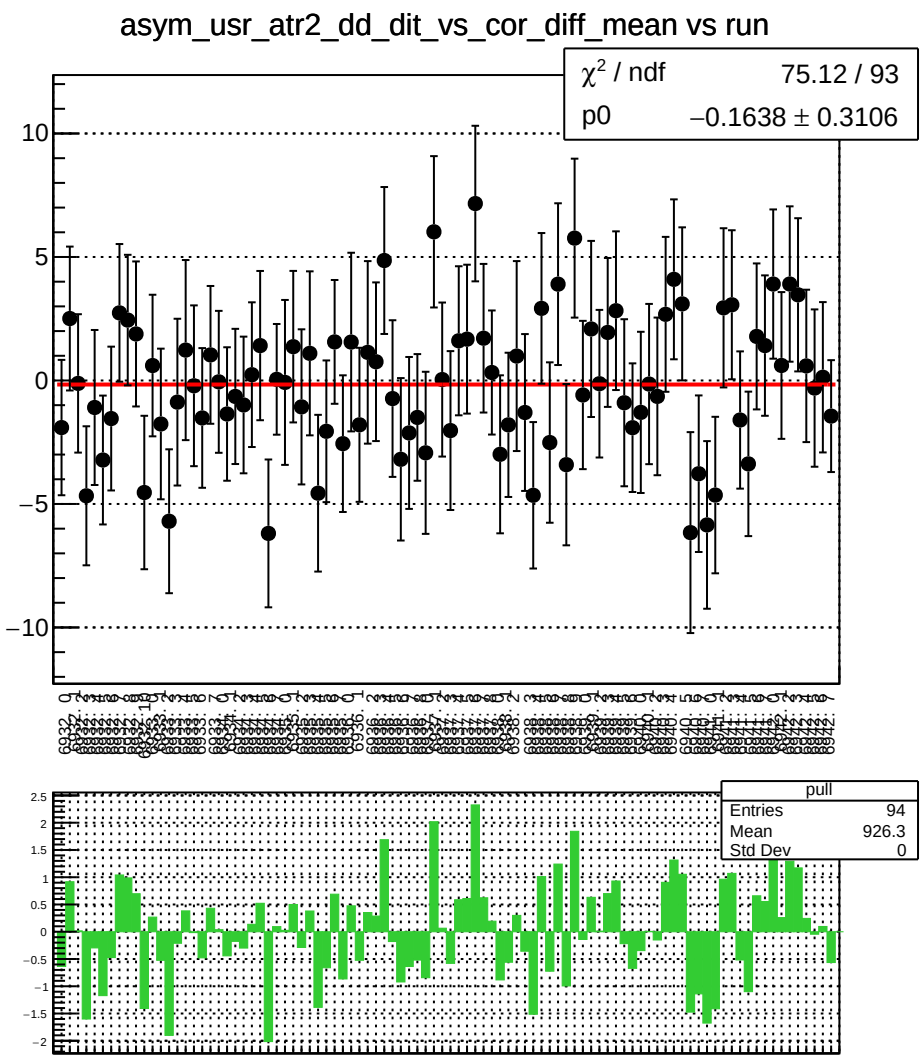

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 94.41 / 93
p0 4885 ± 4771
pull
Entries 94
Mean 388.6
Std Dev 0

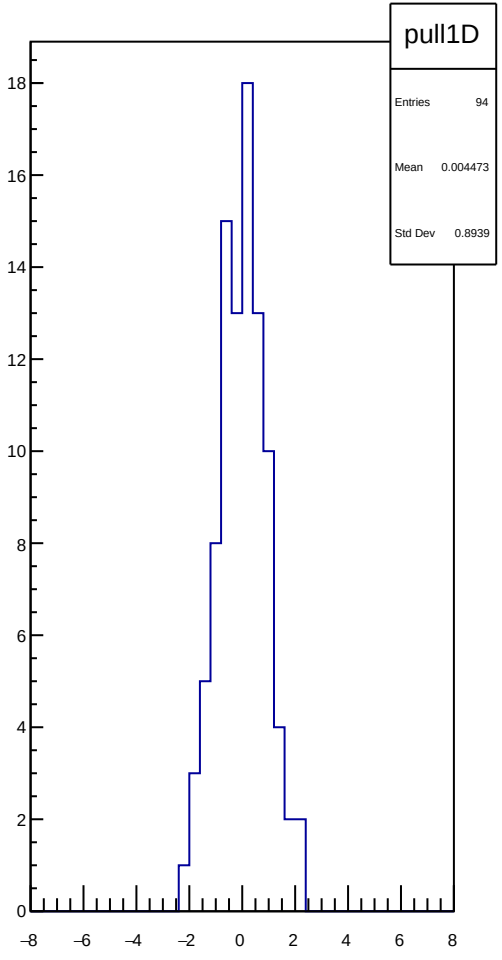

pull1D
Entries 94
Mean −0.007768
Std Dev 1.002

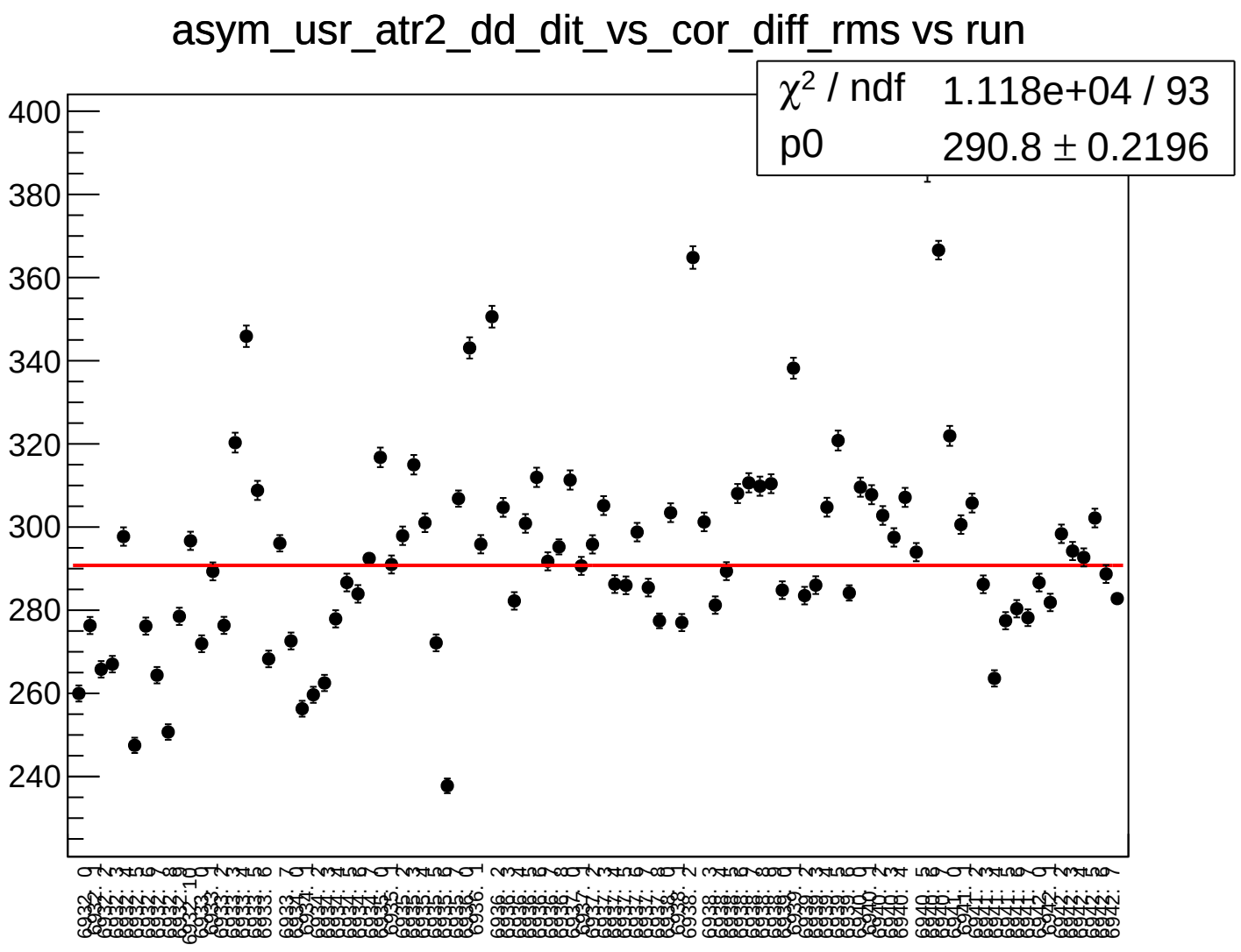

asym_usr_atr2_dd_rms vs run
χ² / ndf 5257 / 93
p0 4474 ± 3.374
5200
5000
4800
4600
4400
4200
4000

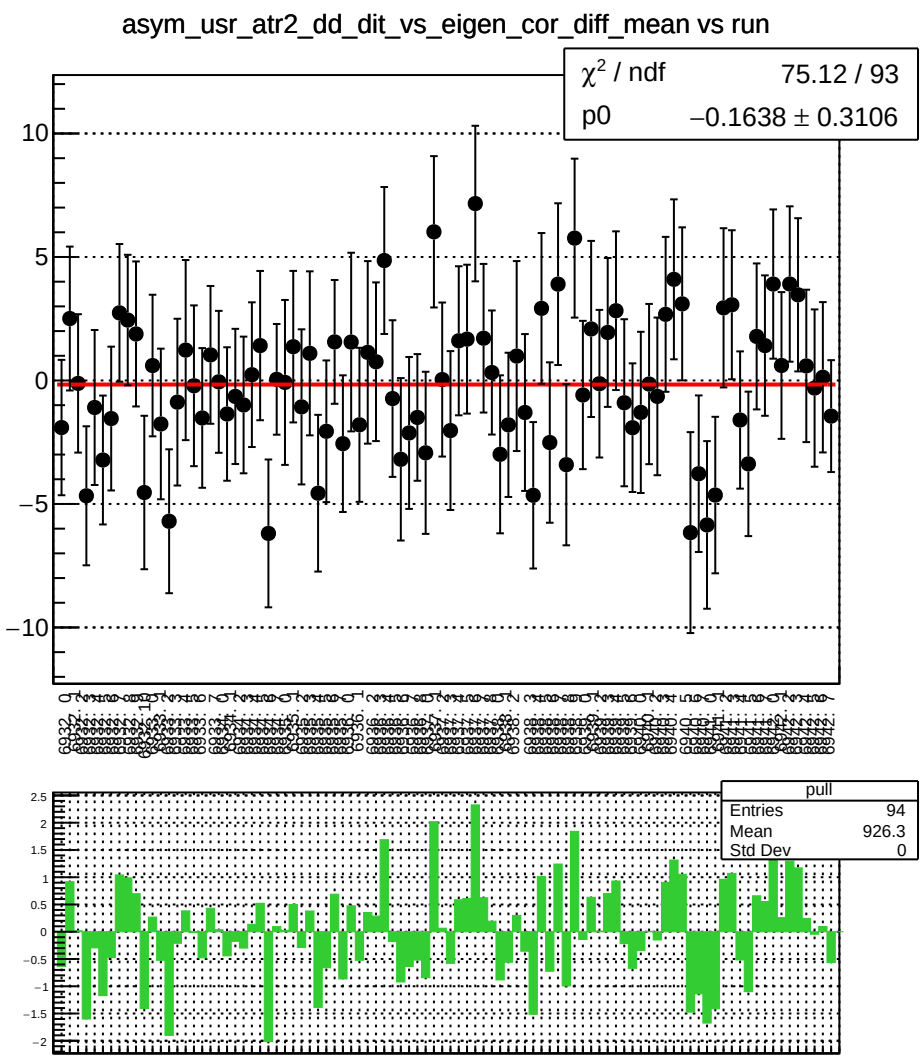

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.83 / 93
p0 −1.802e−13 ± 1.407e−13
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 94
Mean −853.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.00439
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

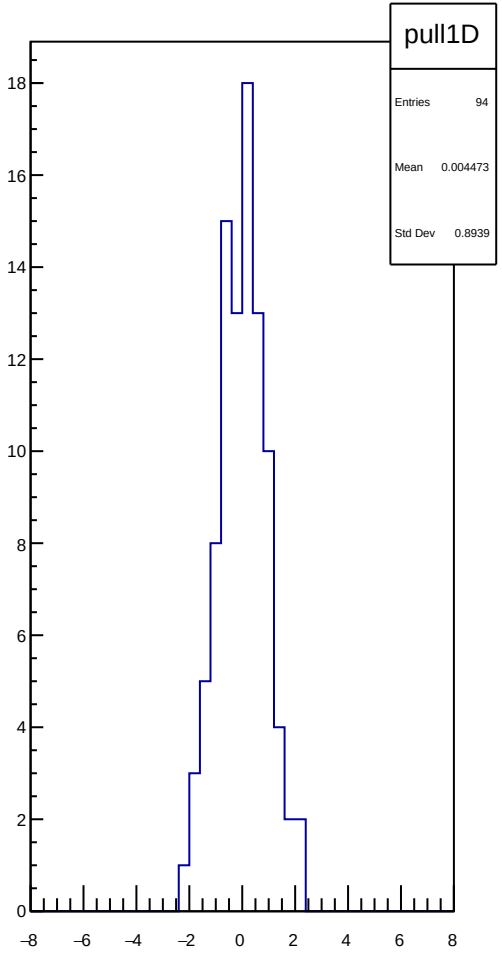

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.142e+06 / 93
p0 7.847e−11 ± 9.948e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

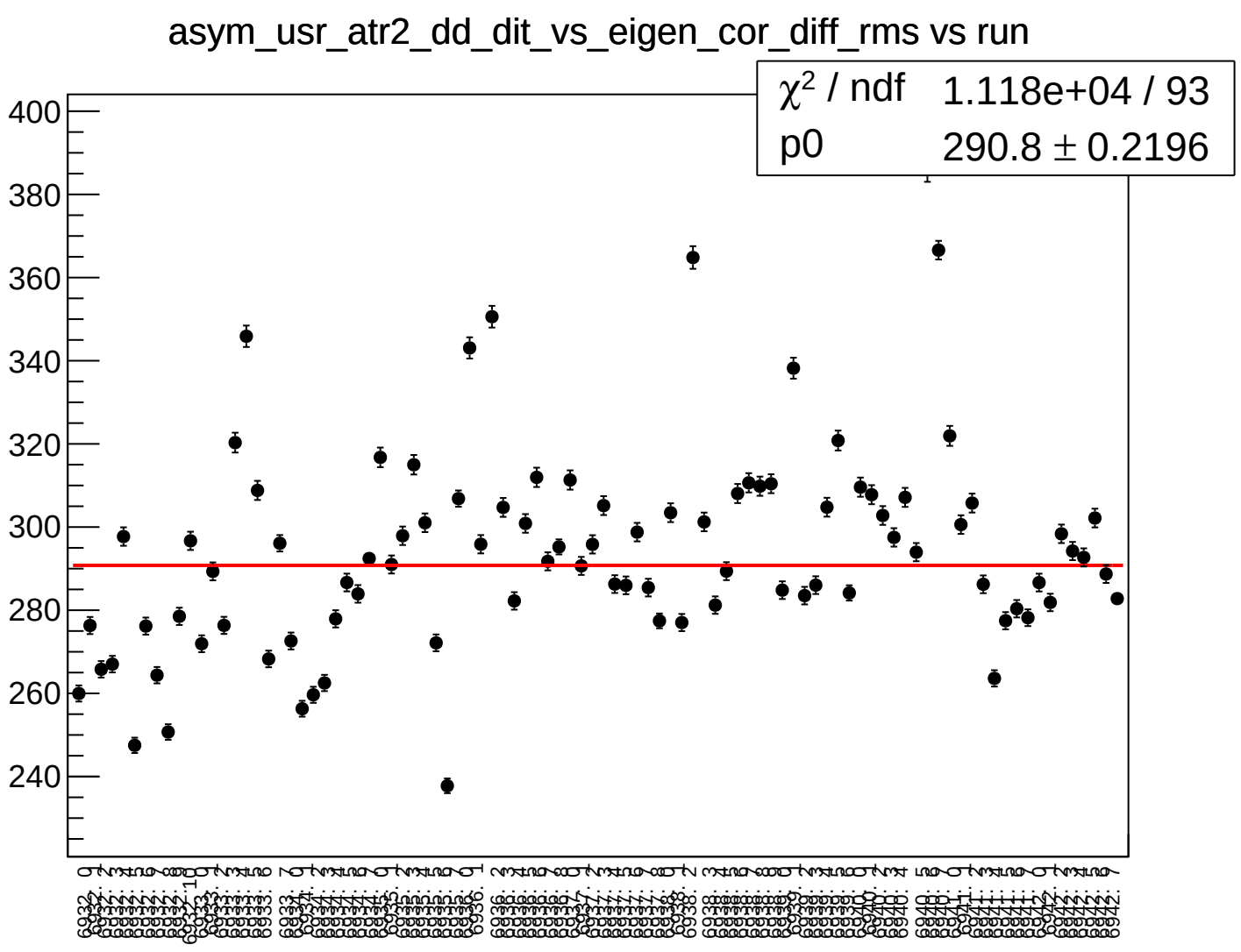

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 −0.1638 ± 0.3106
pull
Entries 94
Mean 926.3
Std Dev 0

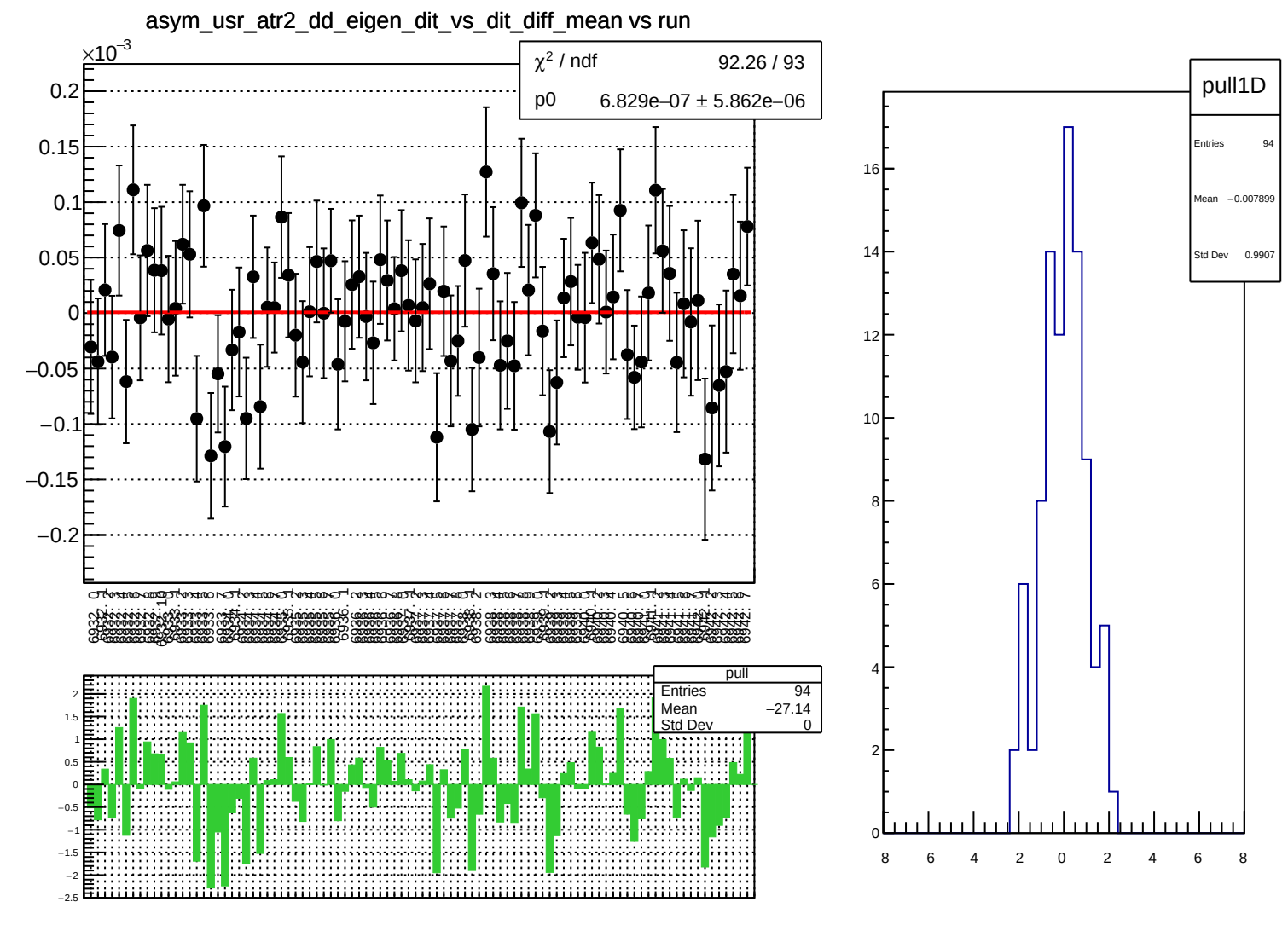

pull1D
Entries 94
Mean 0.004473
Std Dev 0.8939

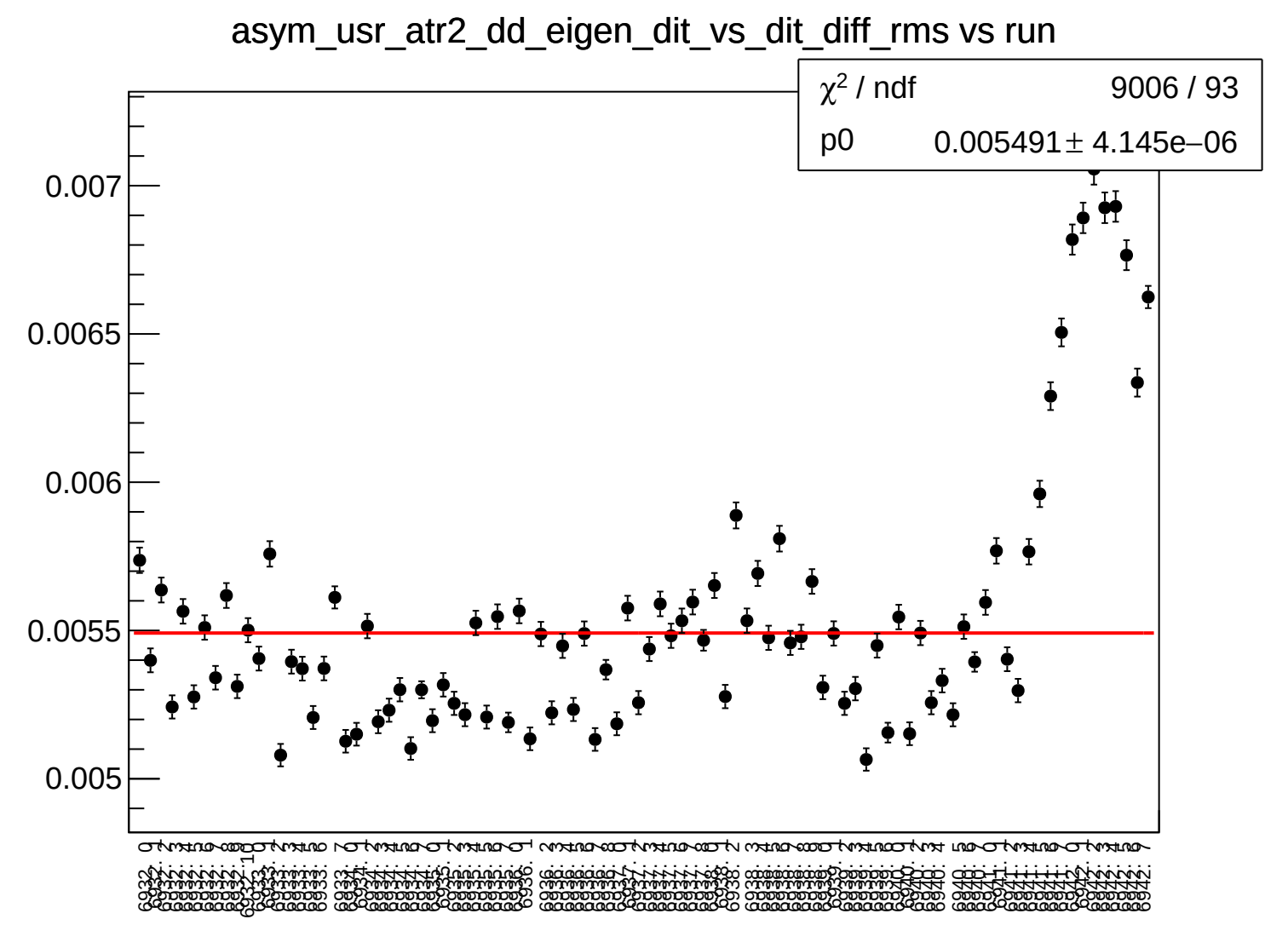

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 93
p0 290.8 ± 0.2196
400
380
360
340
320
300
280
260
240

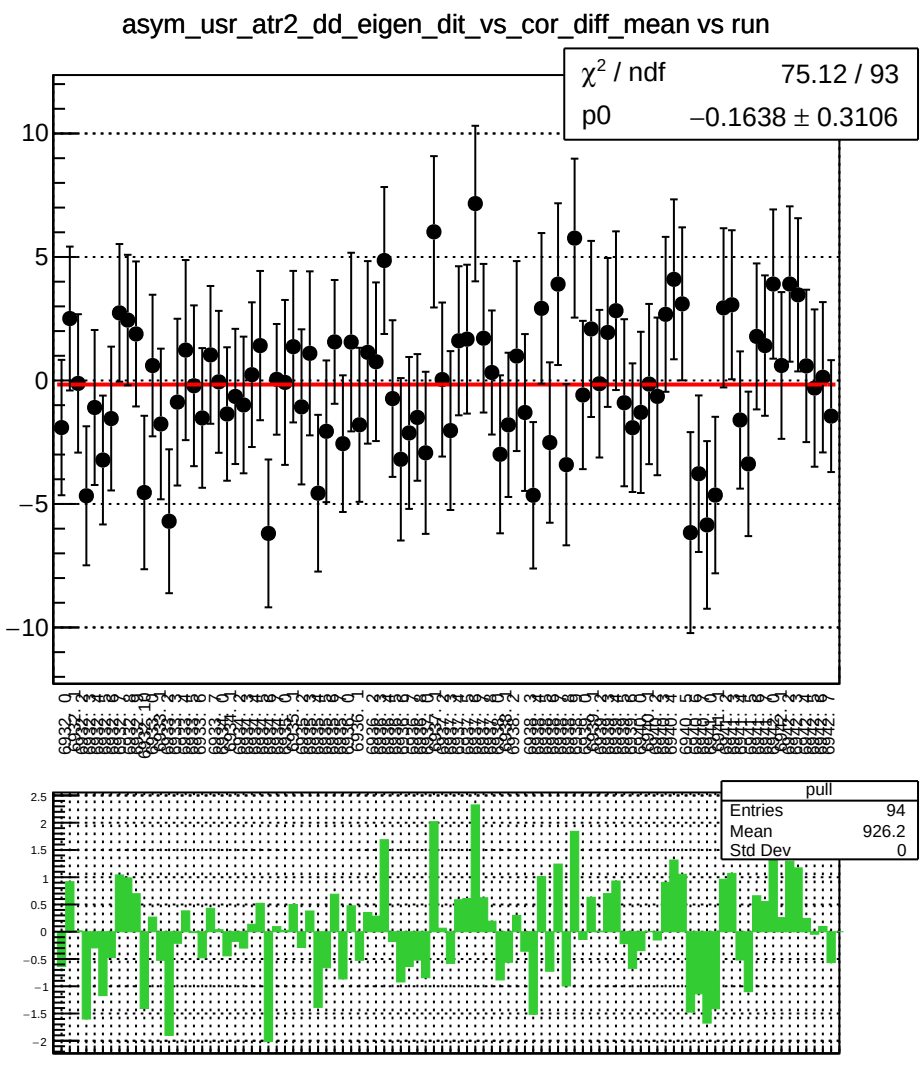

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 −0.1638 ± 0.3106
pull
Entries 94
Mean 926.3
Std Dev 0

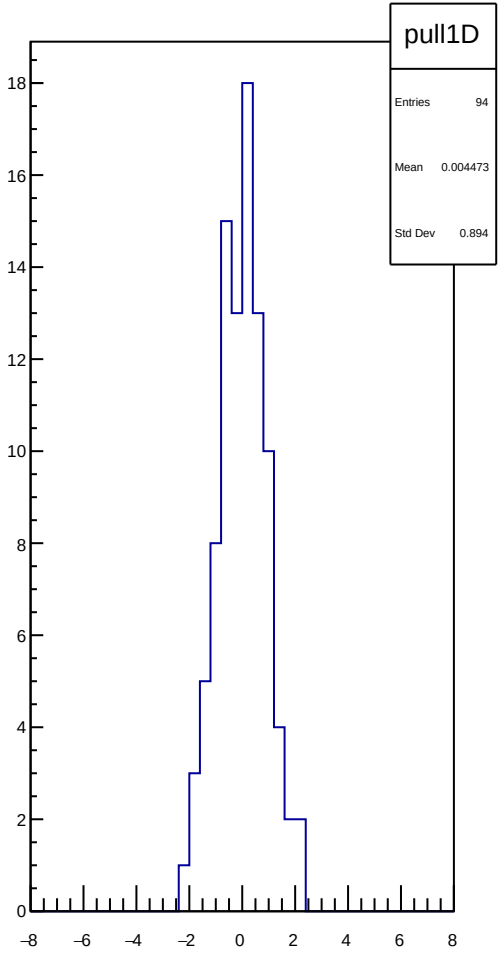

pull1D
Entries 94
Mean 0.004473
Std Dev 0.8939

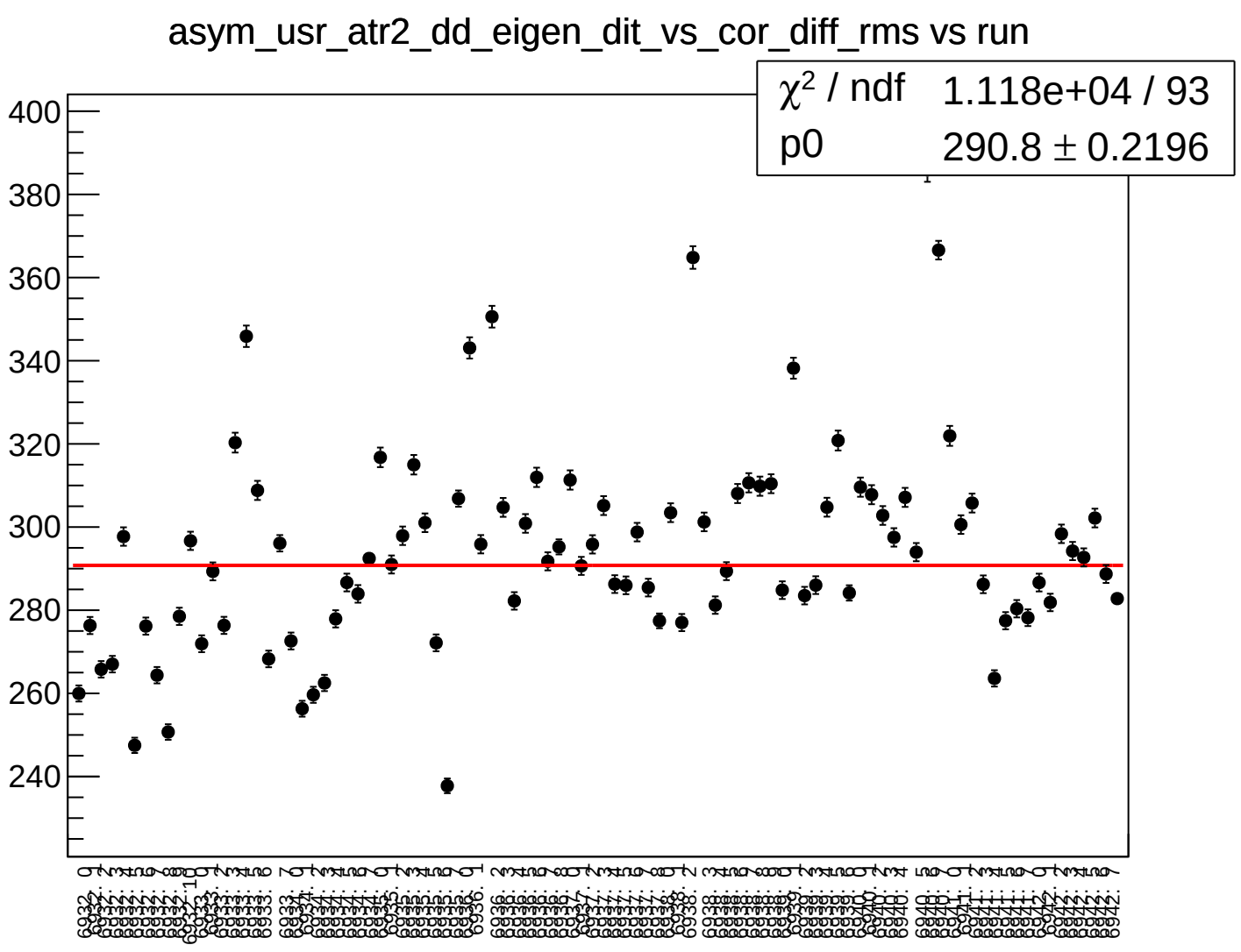

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 93
p0 290.8 ± 0.2196
400
380
360
340
320
300
280
260
240

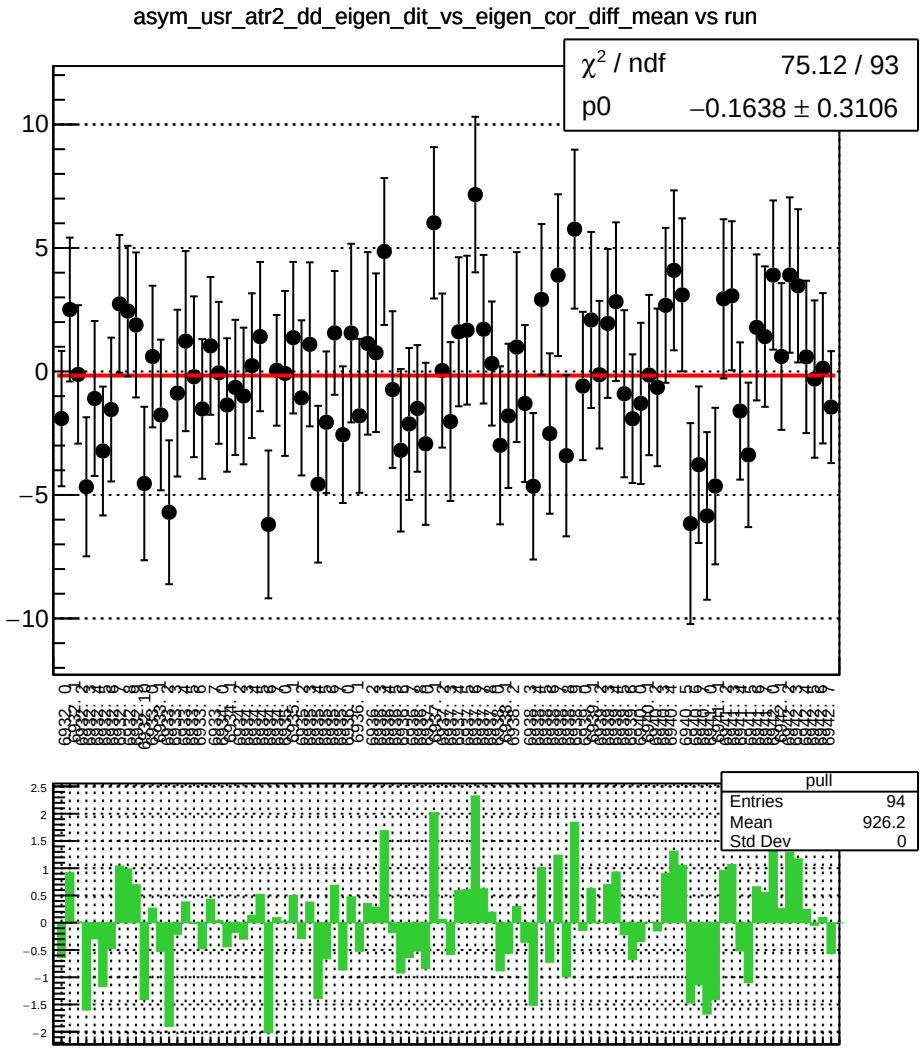

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.26 / 93
p0 6.829e−07 ± 5.862e−06
pull
Entries 94
Mean −27.14
Std Dev 0
pull1D
Entries 94
Mean −0.007899
Std Dev 0.9907

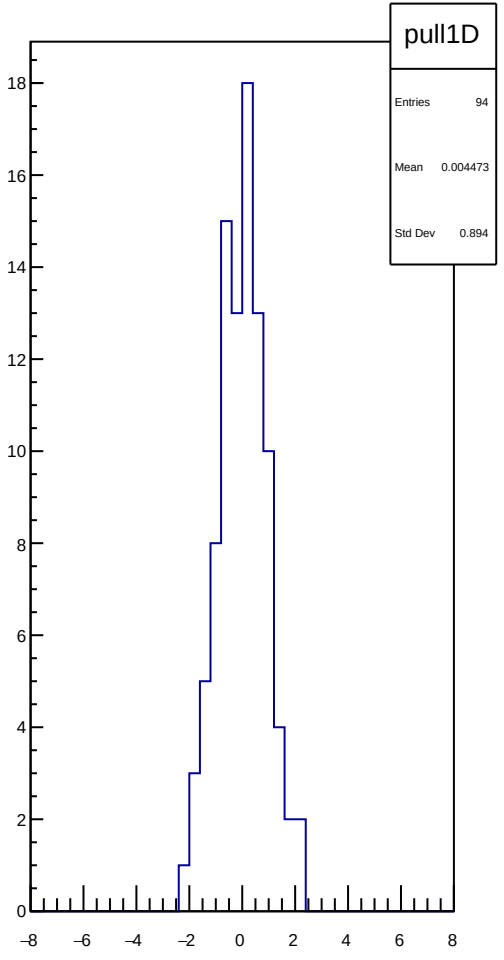

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9006 / 93
p0 0.005491 ± 4.145e−06
0.007
0.0065
0.006
0.0055
0.005

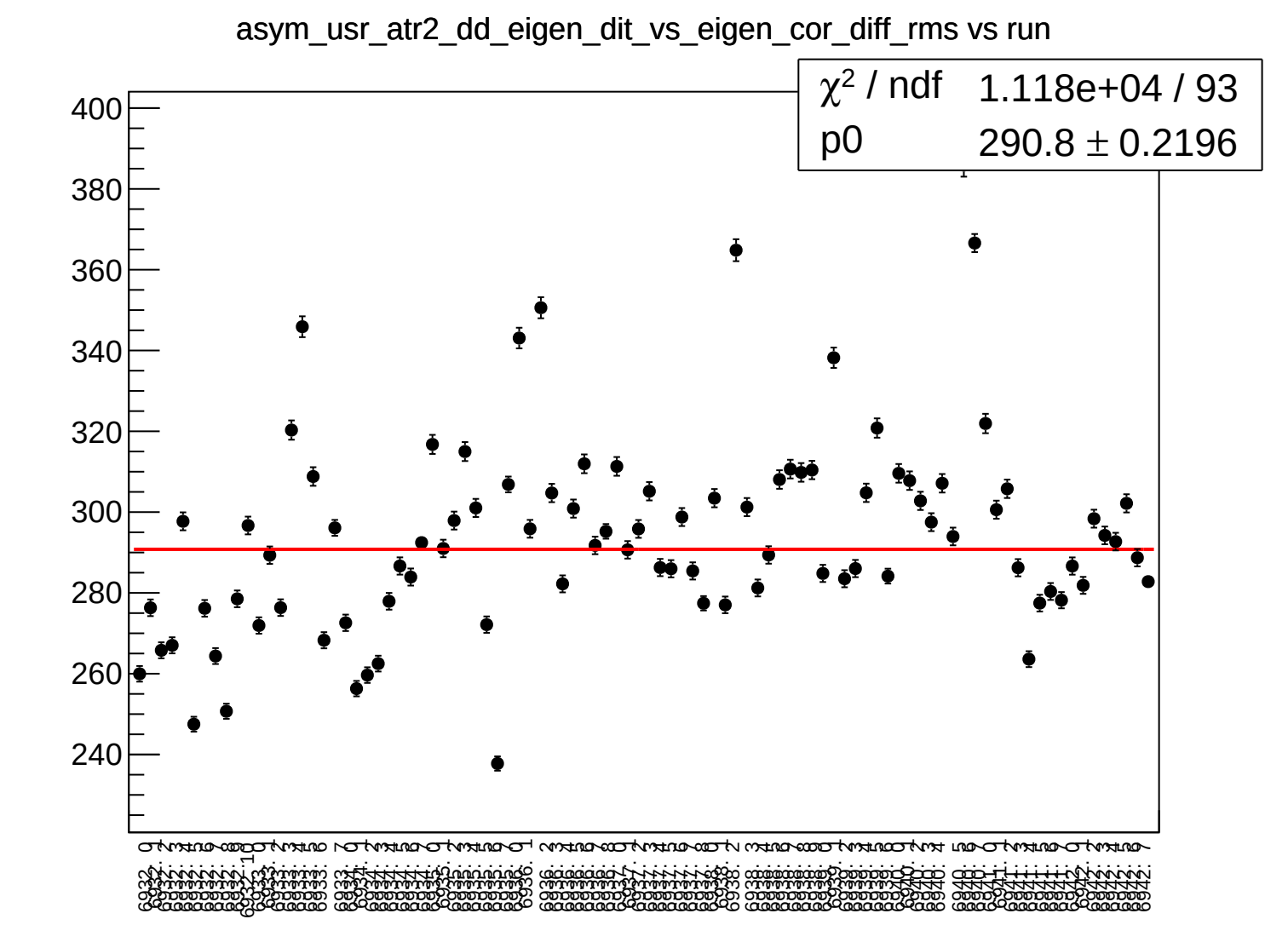

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 −0.1638 ± 0.3106
pull
Entries 94
Mean 926.2
Std Dev 0

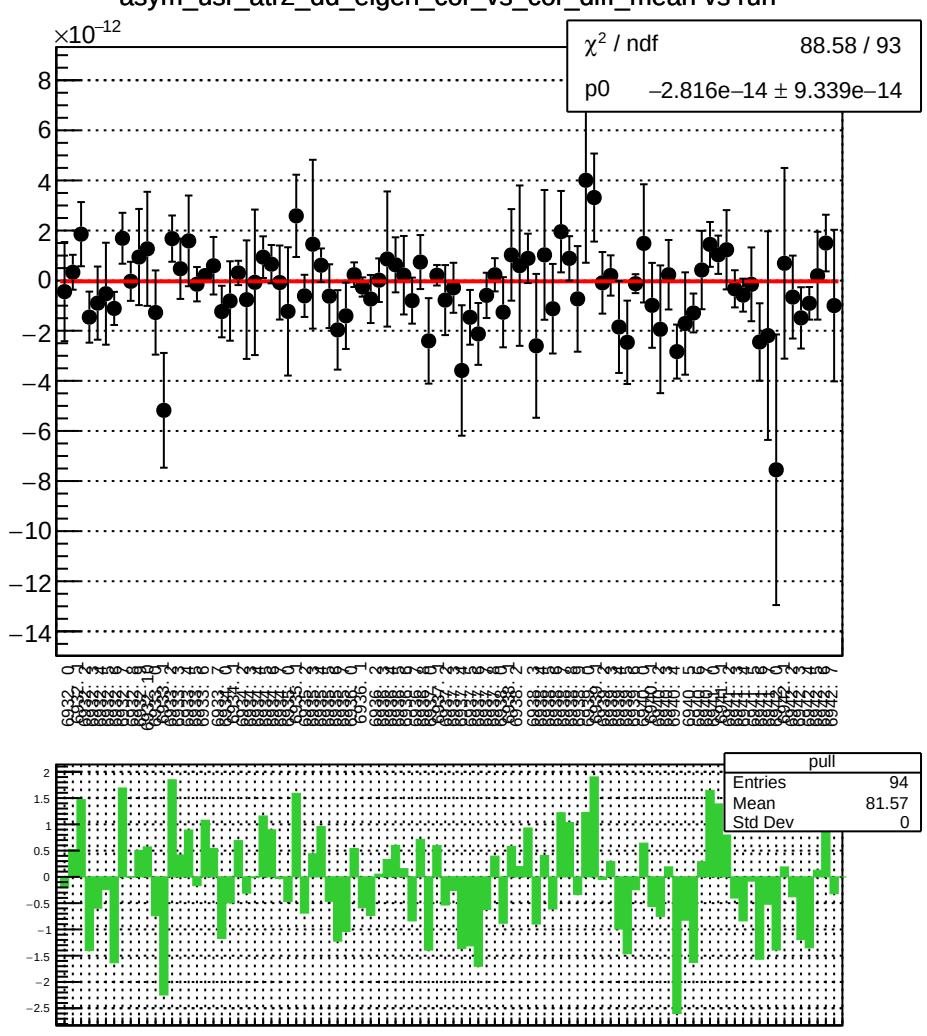

pull1D
Entries 94
Mean 0.004473
Std Dev 0.894

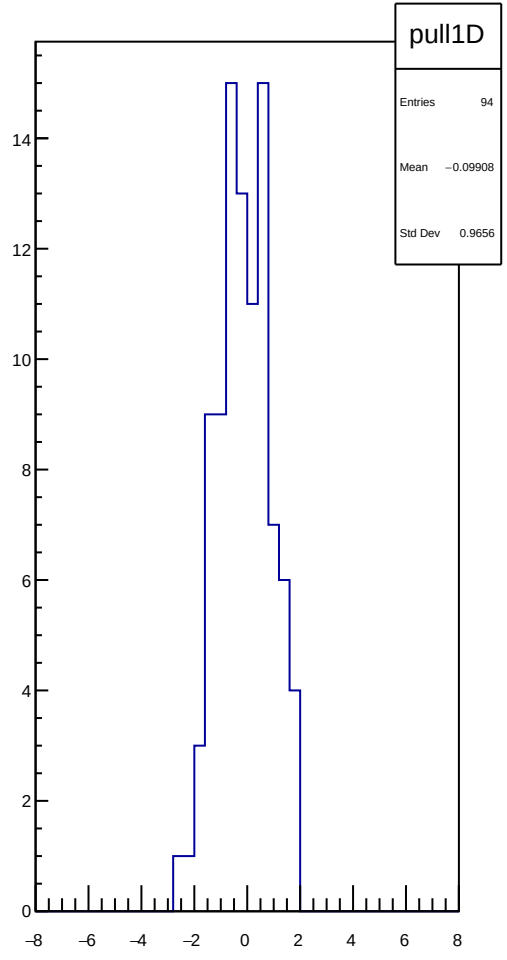

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 93
p0 290.8 ± 0.2196
400
380
360
340
320
300
280
260
240

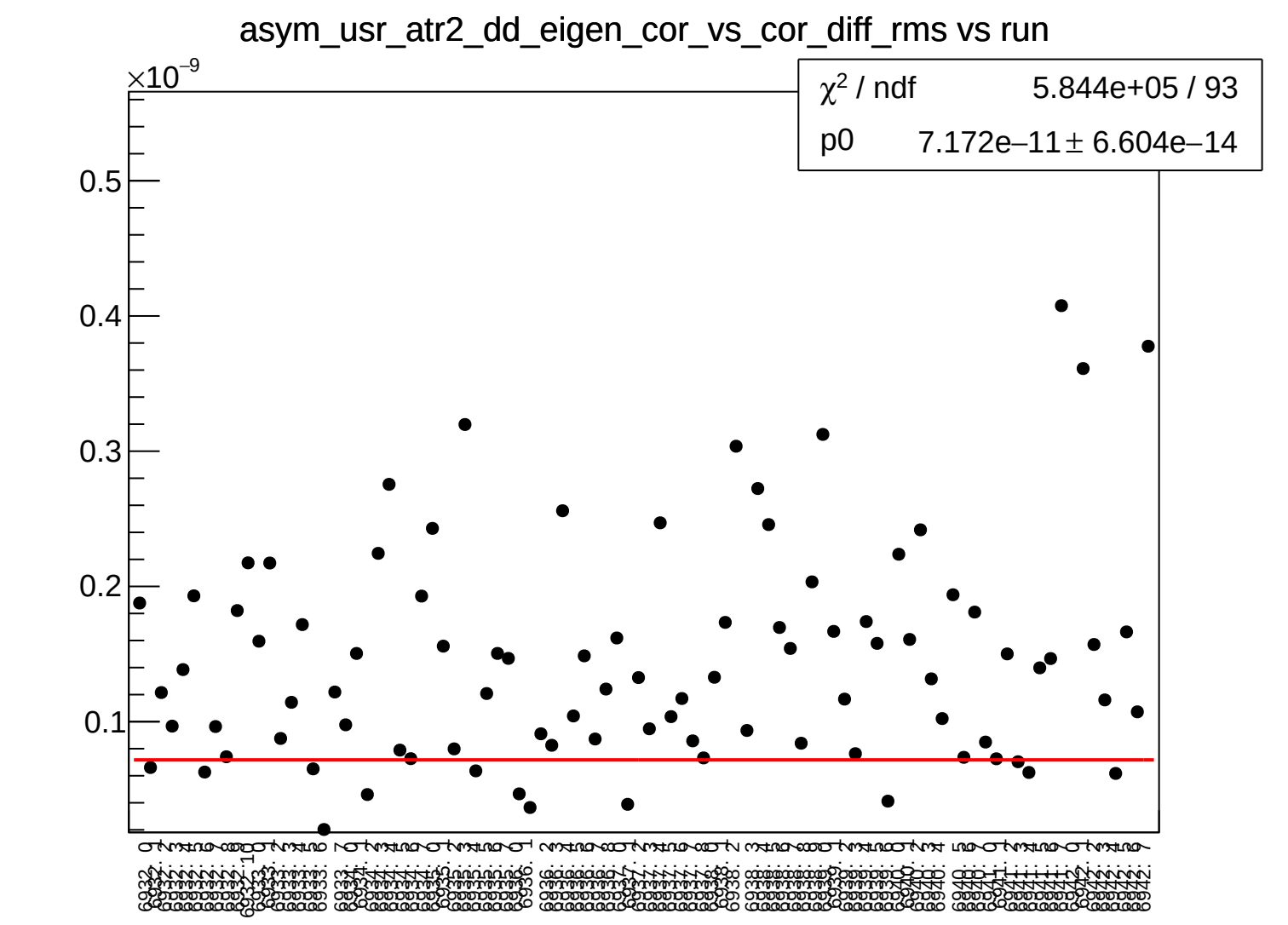

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.12 / 93
p0 −0.1638 ± 0.3106
pull
Entries 94
Mean 926.2
Std Dev 0

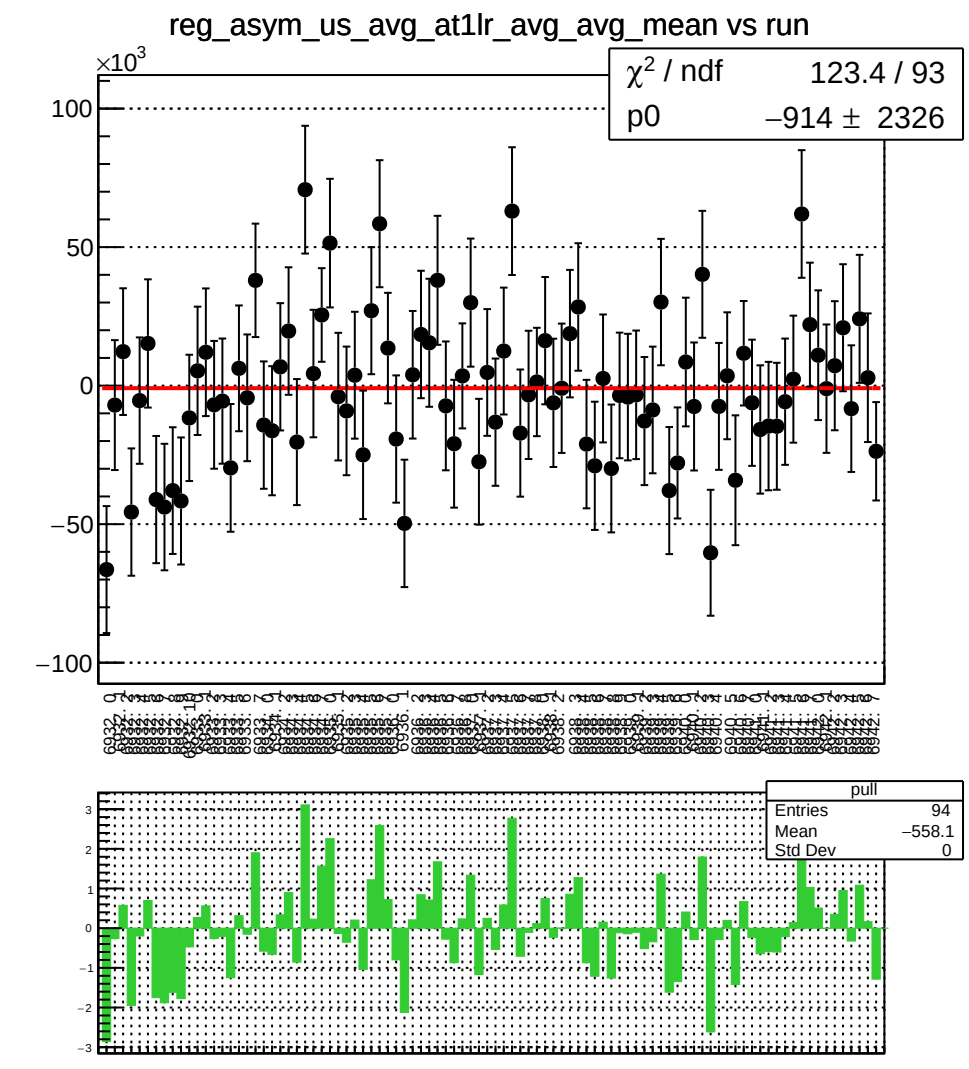

pull1D
Entries 94
Mean 0.004473
Std Dev 0.894

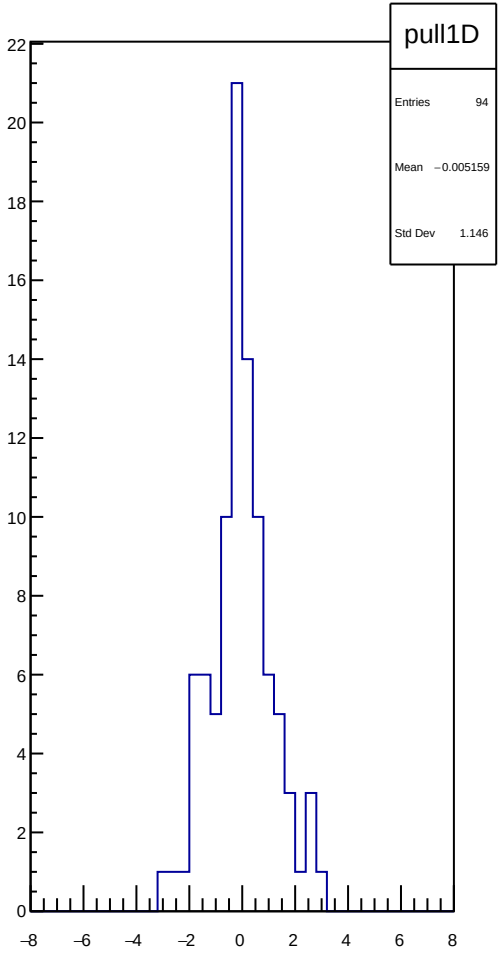

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.118e+04 / 93
p0 290.8 ± 0.2196
400
380
360
340
320
300
280
260
240

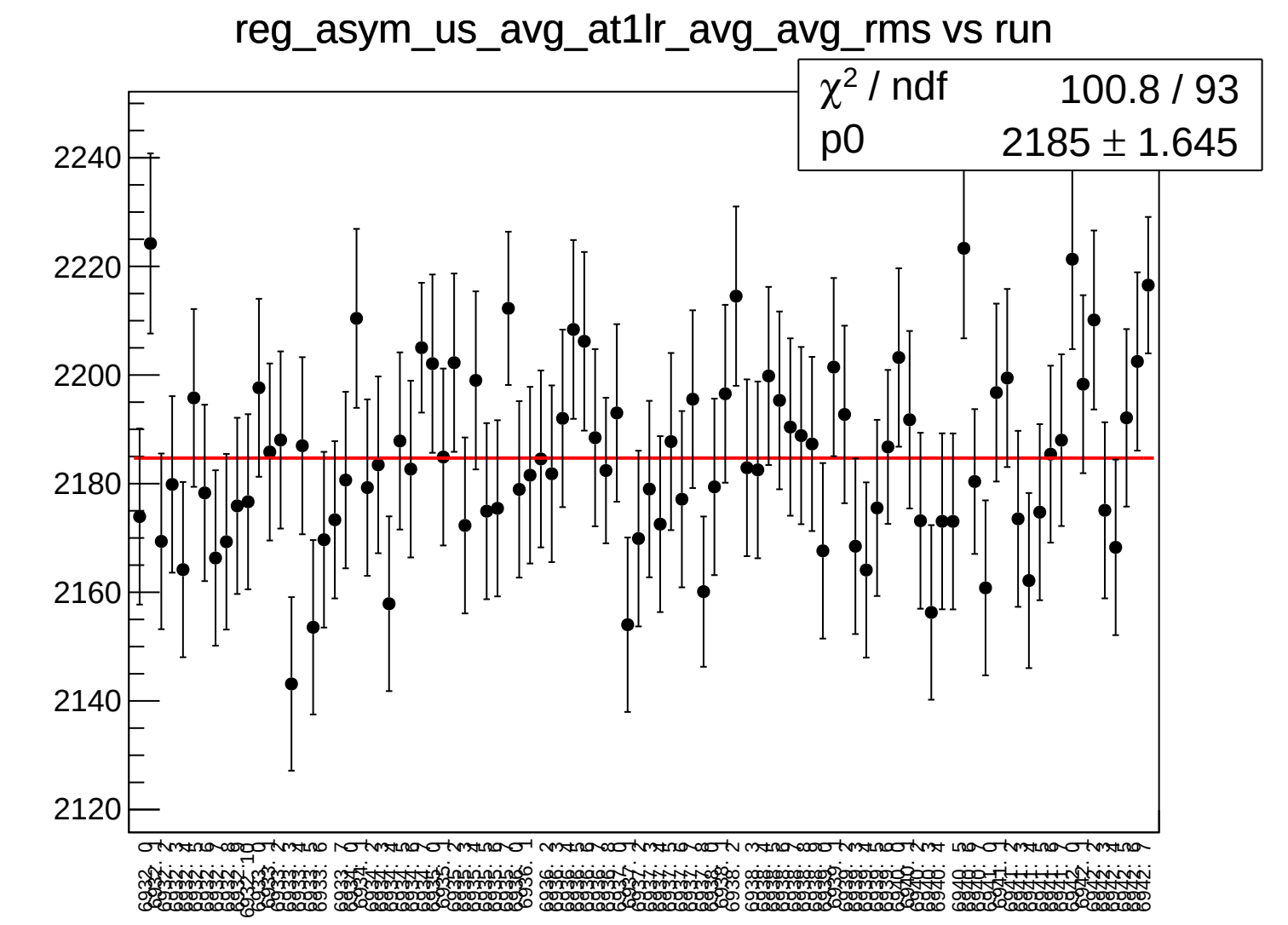

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.58 / 93
p0 −2.816e−14 ± 9.339e−14
pull
Entries 94
Mean 81.57
Std Dev 0

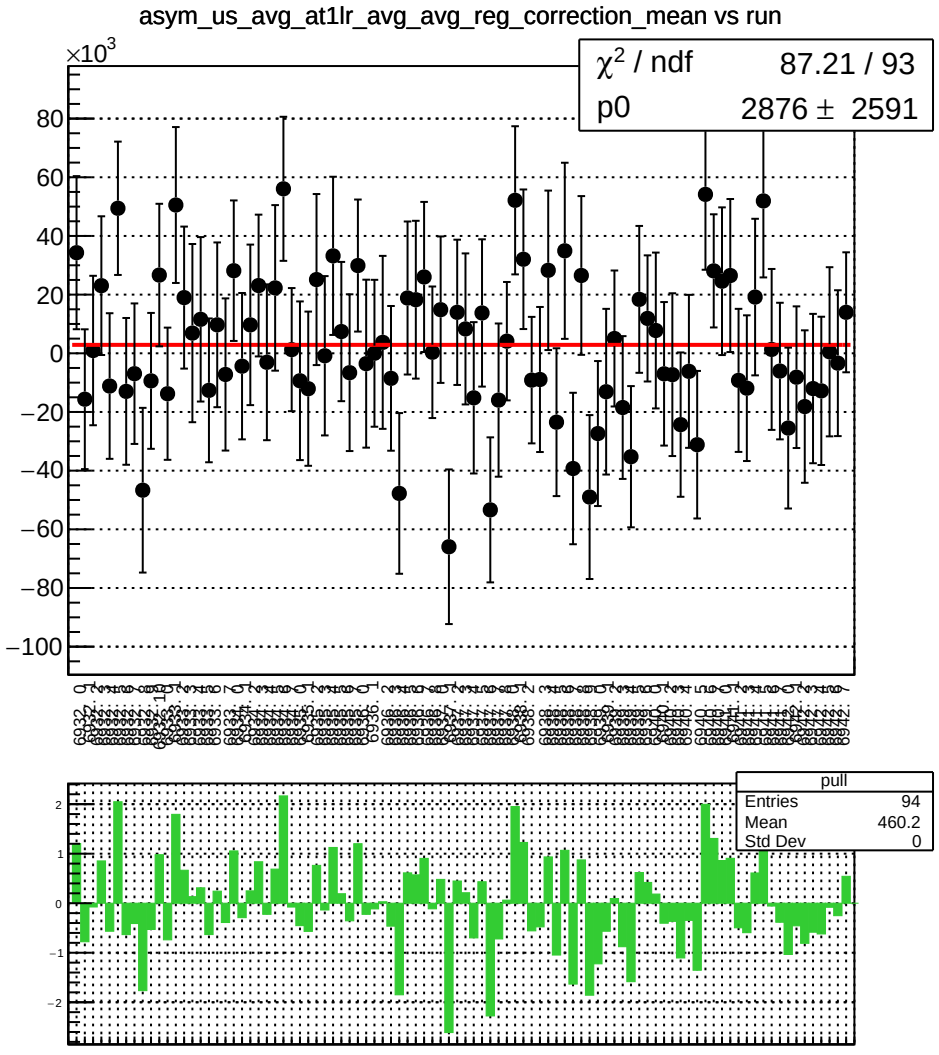

pull1D
Entries 94
Mean −0.09908
Std Dev 0.9656

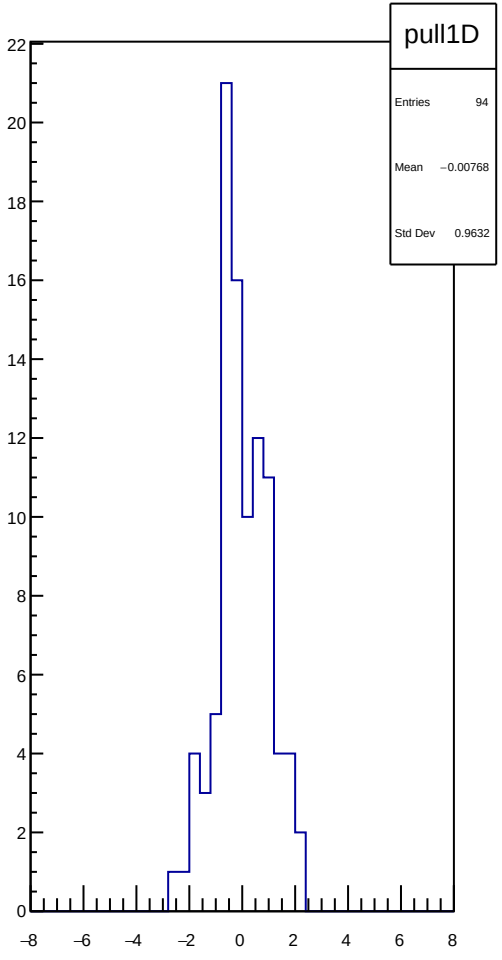

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.844e+05 / 93
p0 7.172e−11 ± 6.604e−14
0.5
0.4
0.3
0.2
0.1

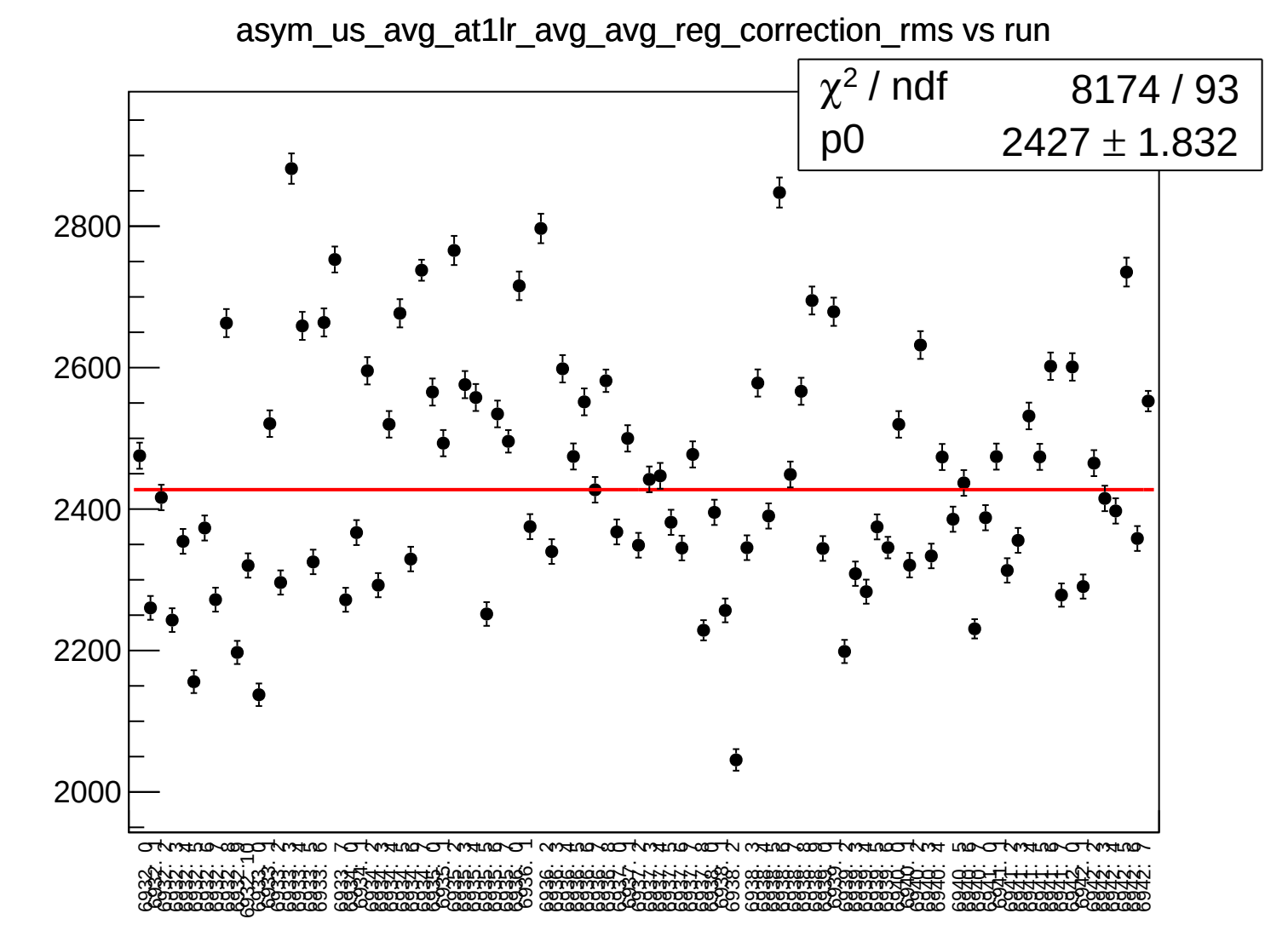

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 123.4 / 93
p0 −914 ± 2326
100
50
0
−50
−100
pull
Entries 94
Mean −558.1
Std Dev 0
3
2
1
0
−1
−2
−3

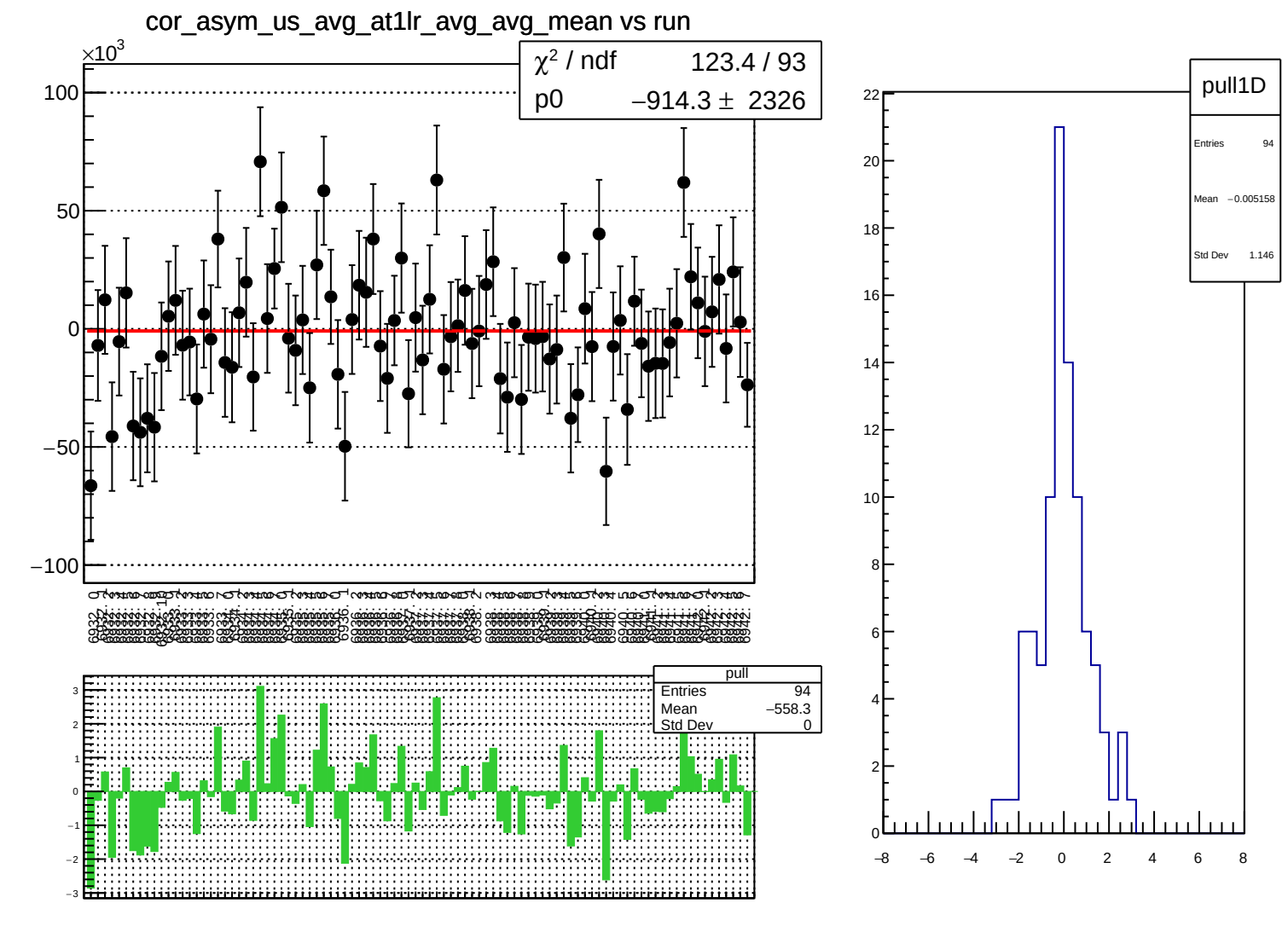

pull1D
Entries 94
Mean −0.005159
Std Dev 1.146
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

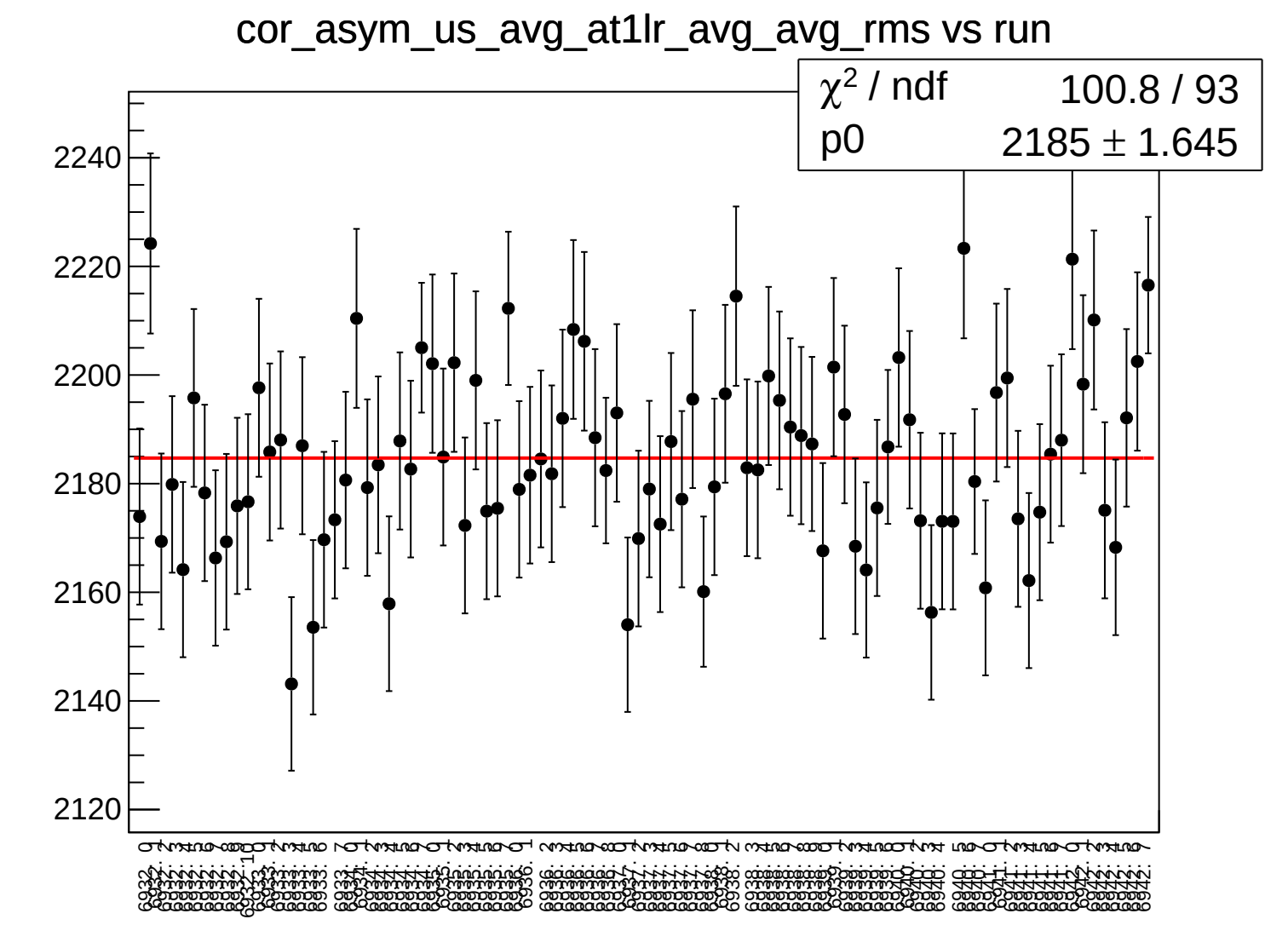

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 100.8 / 93
p0 2185 ± 1.645
2240
2220
2200
2180
2160
2140
2120

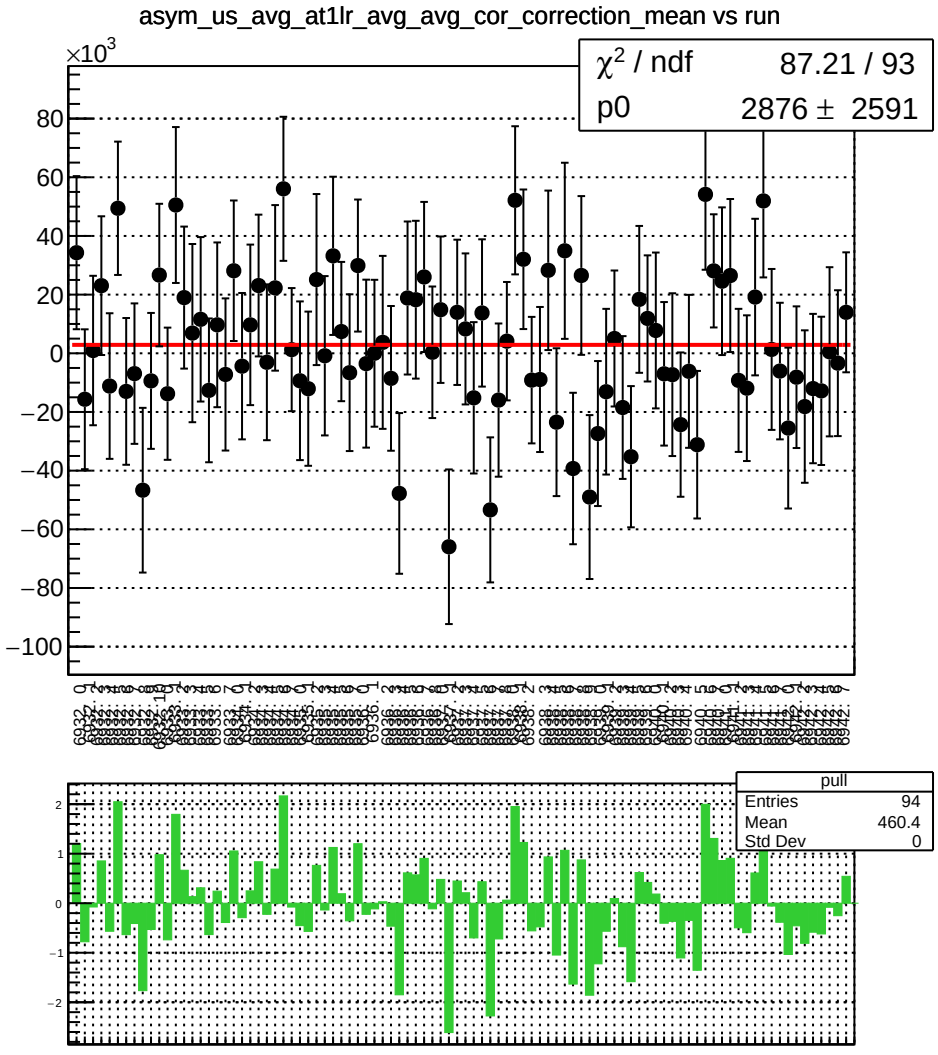

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.21 / 93
p0 2876 ± 2591
pull
Entries 94
Mean 460.2
Std Dev 0

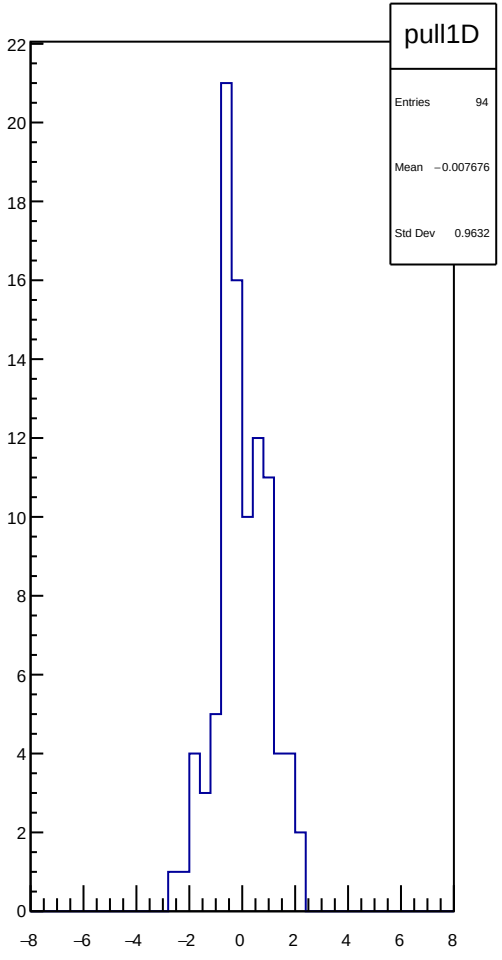

pull1D
Entries 94
Mean −0.00768
Std Dev 0.9632

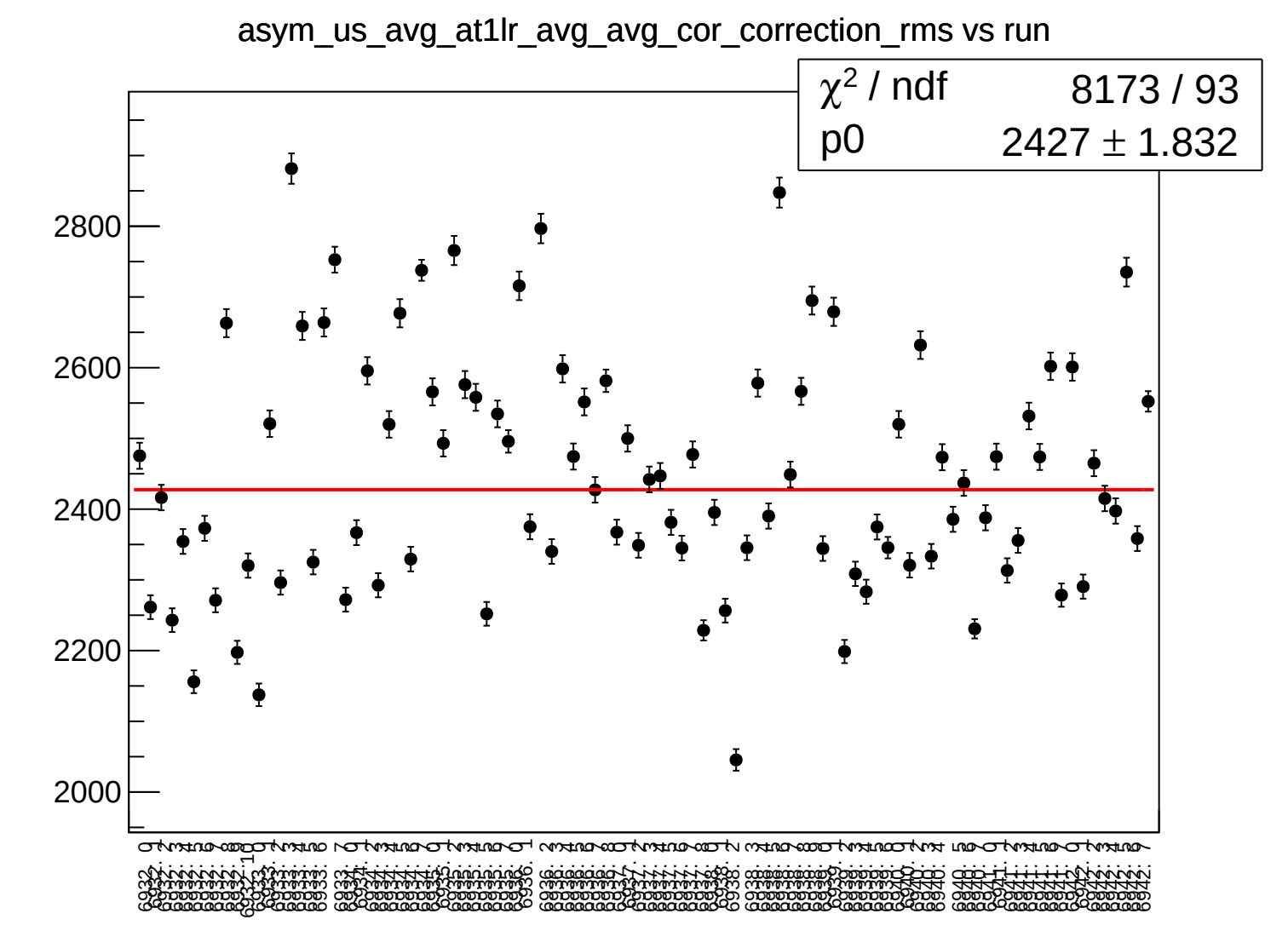

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8174 / 93
p0 2427 ± 1.832
2800
2600
2400
2200
2000

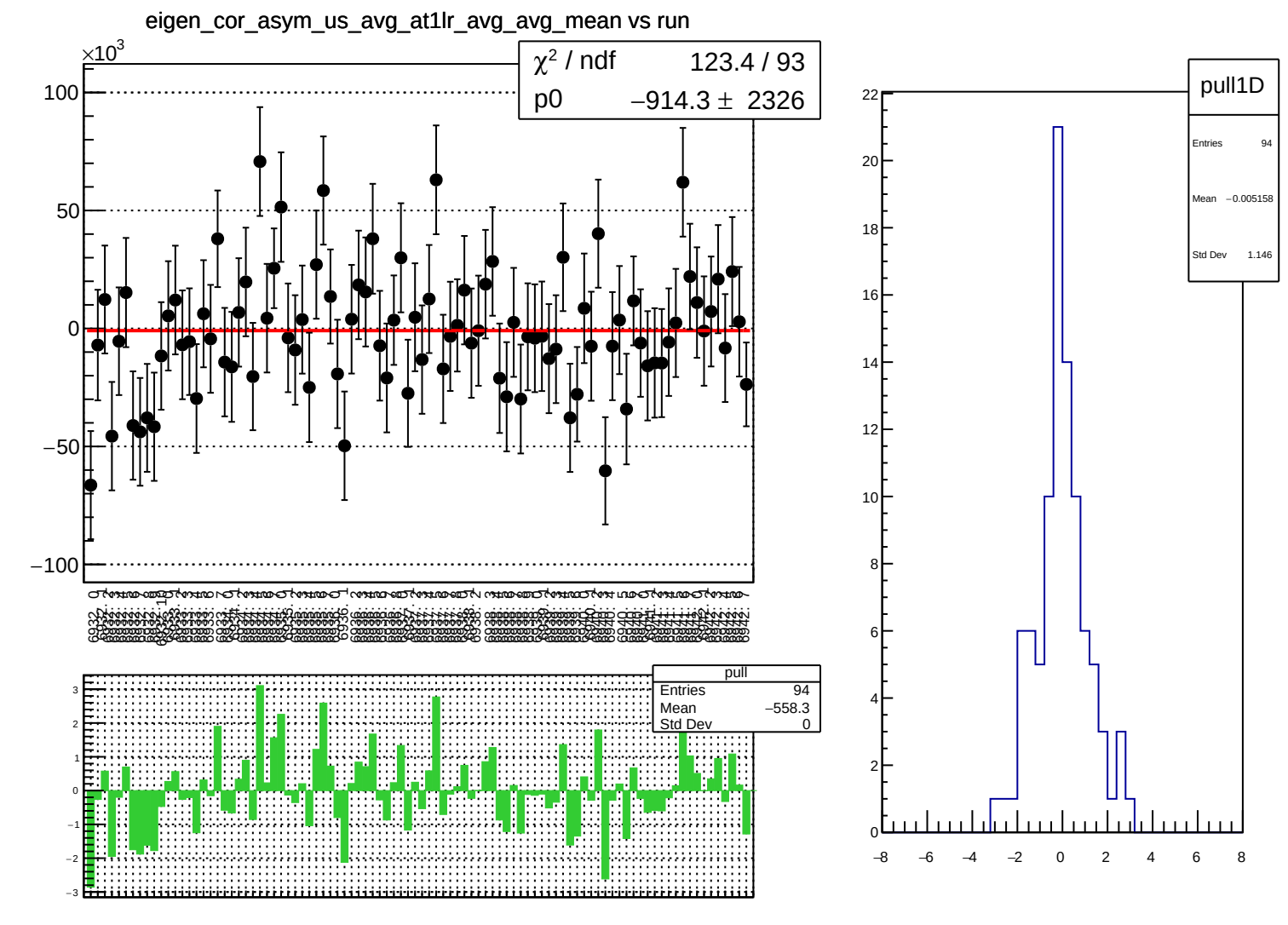

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 123.4 / 93
p0 −914.3 ± 2326
100
50
0
−50
−100
pull
Entries 94
Mean −558.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.005158
Std Dev 1.146
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

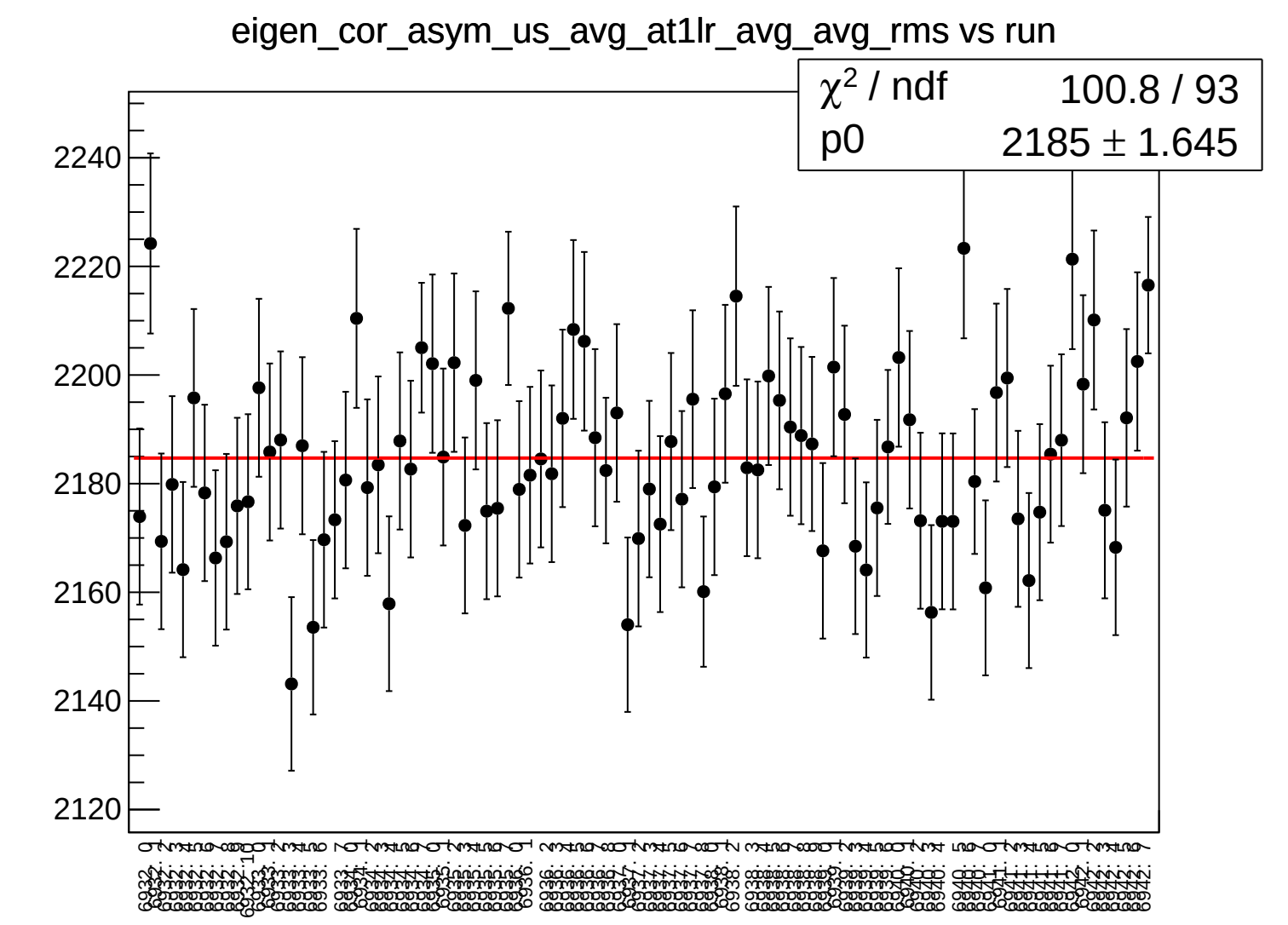

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.8 / 93
p0 2185 ± 1.645
2240
2220
2200
2180
2160
2140
2120

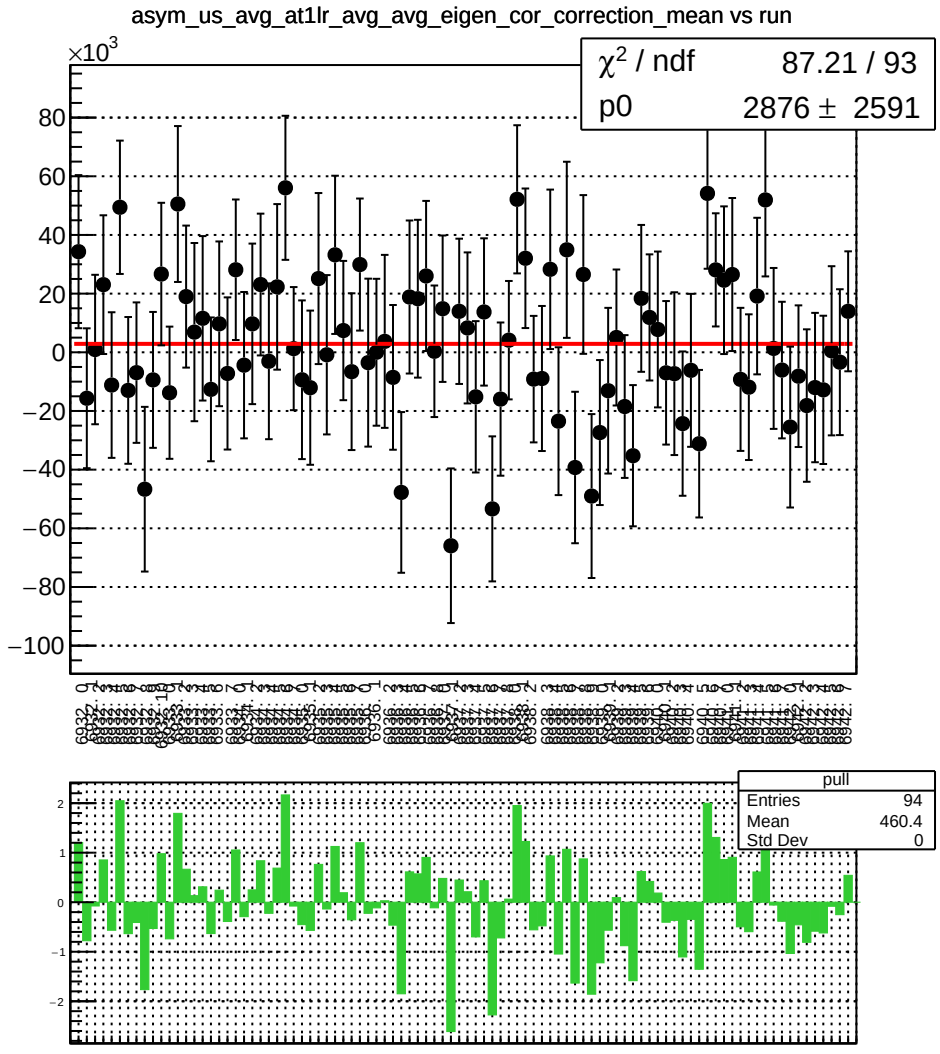

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.21 / 93
p0 2876 ± 2591
pull
Entries 94
Mean 460.4
Std Dev 0

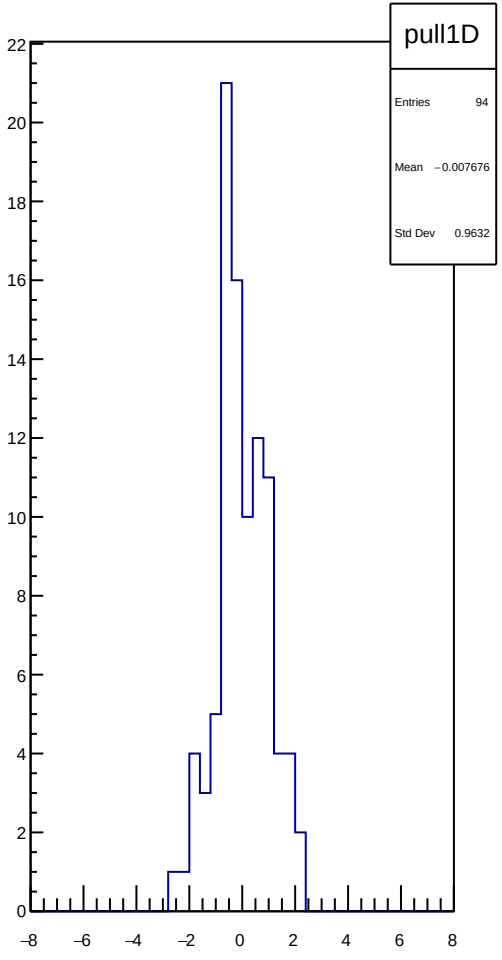

pull1D
Entries 94
Mean −0.007676
Std Dev 0.9632

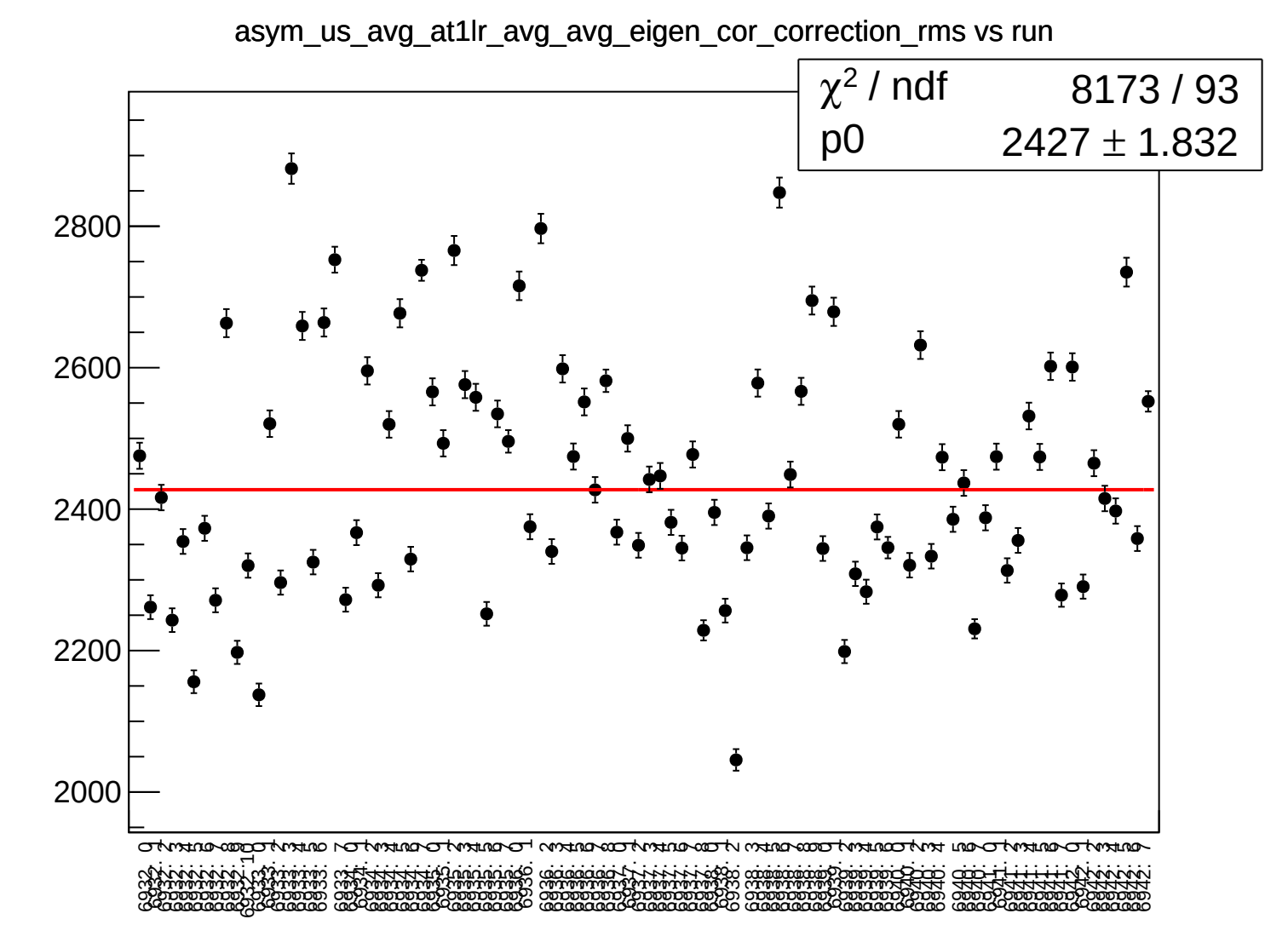

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8173 / 93
p0 2427 ± 1.832
2800
2600
2400
2200
2000

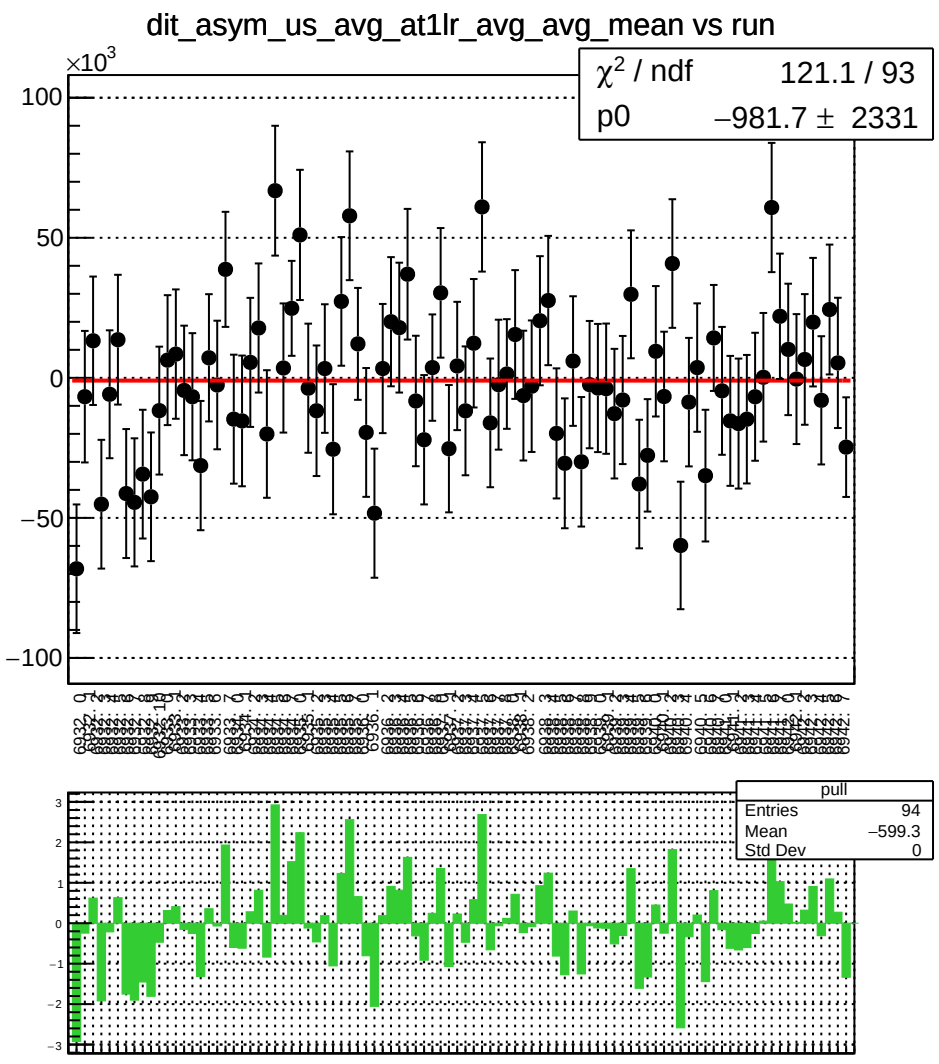

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 123.4 / 93
p0 −914.3 ± 2326
100
50
0
−50
−100
pull
Entries 94
Mean −558.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.005158
Std Dev 1.146
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

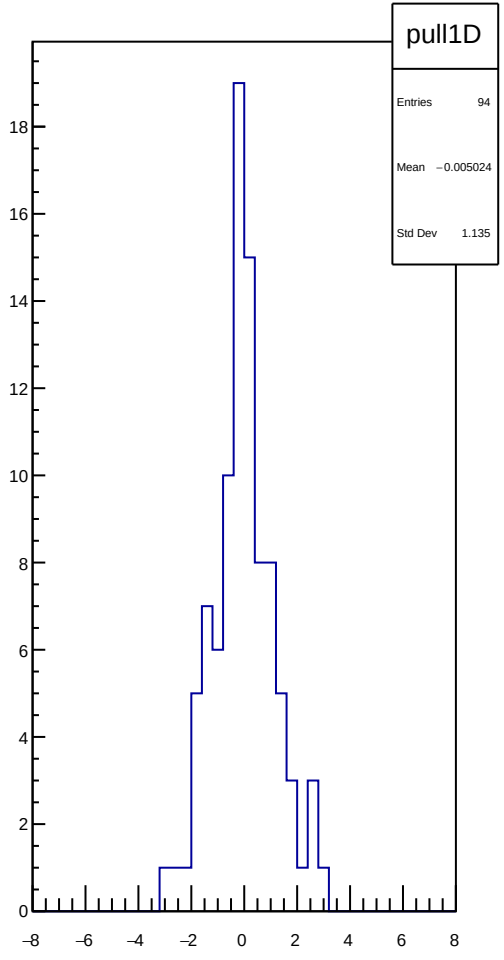

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.8 / 93
p0 2185 ± 1.645
2240
2220
2200
2180
2160
2140
2120


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.21 / 93
p0 2876 ± 2591
pull
Entries 94
Mean 460.4
Std Dev 0


pull1D
Entries 94
Mean −0.007676
Std Dev 0.9632


asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8173 / 93
p0 2427 ± 1.832
2800
2600
2400
2200
2000


dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 121.1 / 93
p0 −981.7 ± 2331
100
50
0
−50
−100
pull
Entries 94
Mean −599.3
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 94
Mean −0.005024
Std Dev 1.135
18
16
14
12
10
8
6
4
2
0
−8
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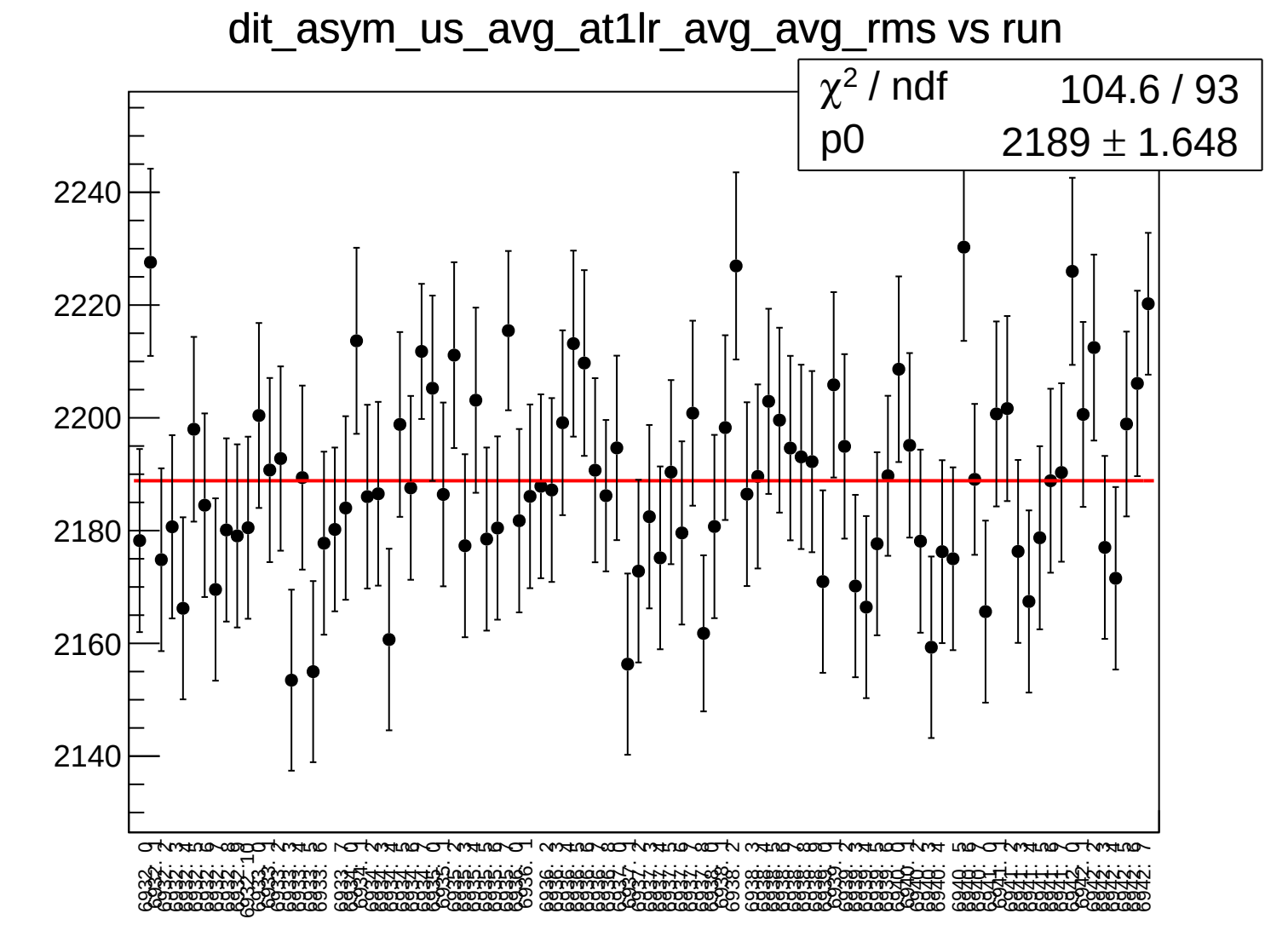
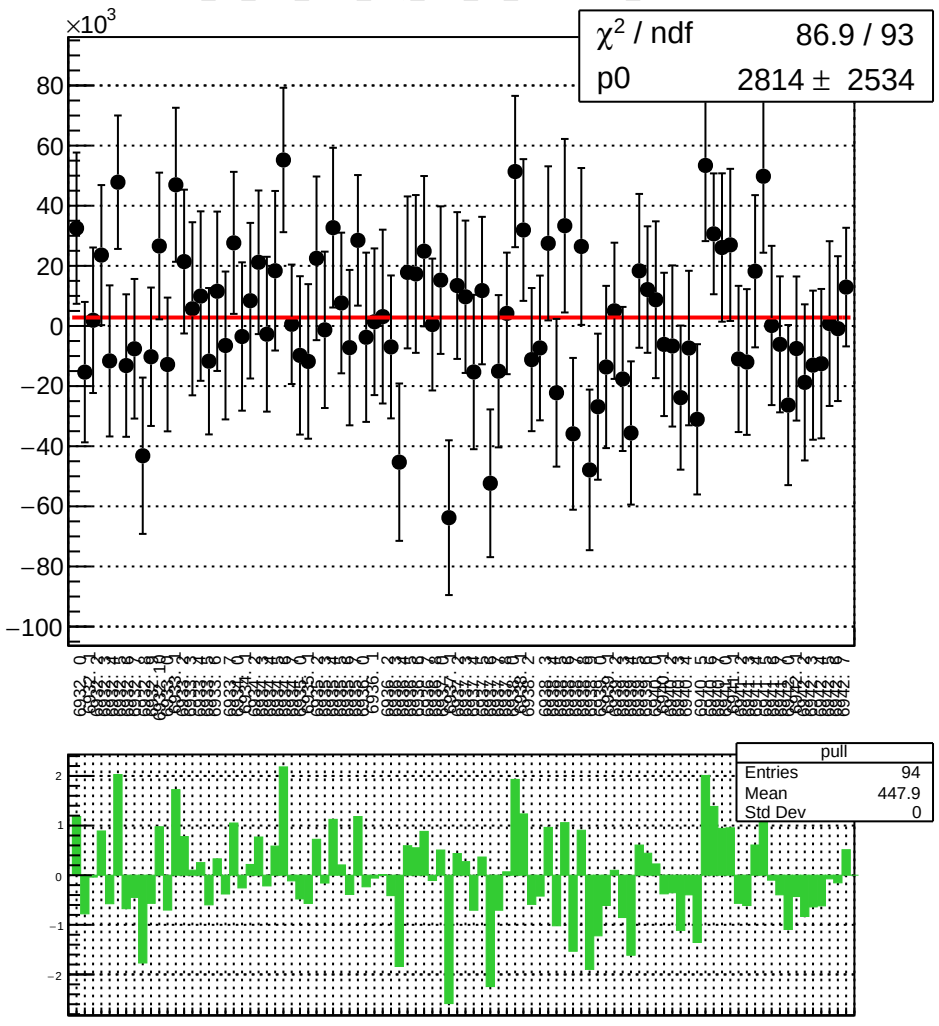
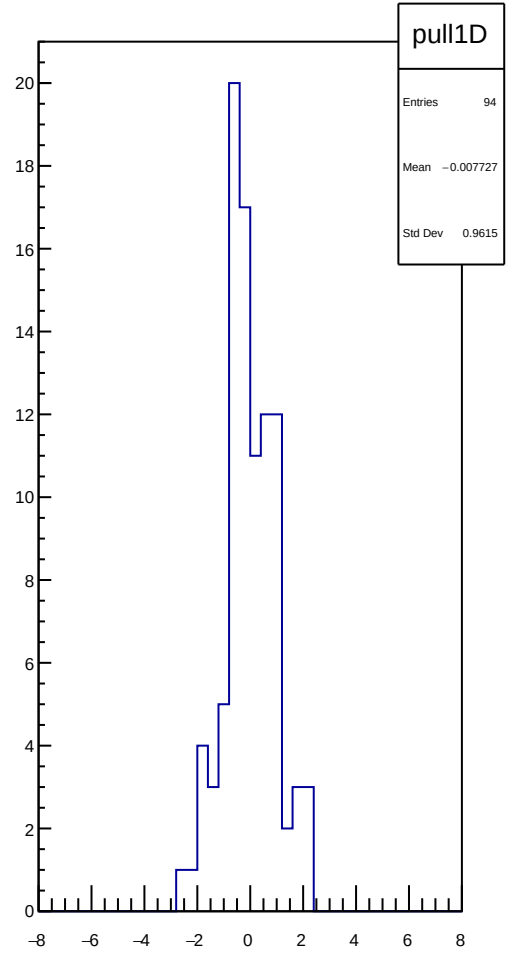
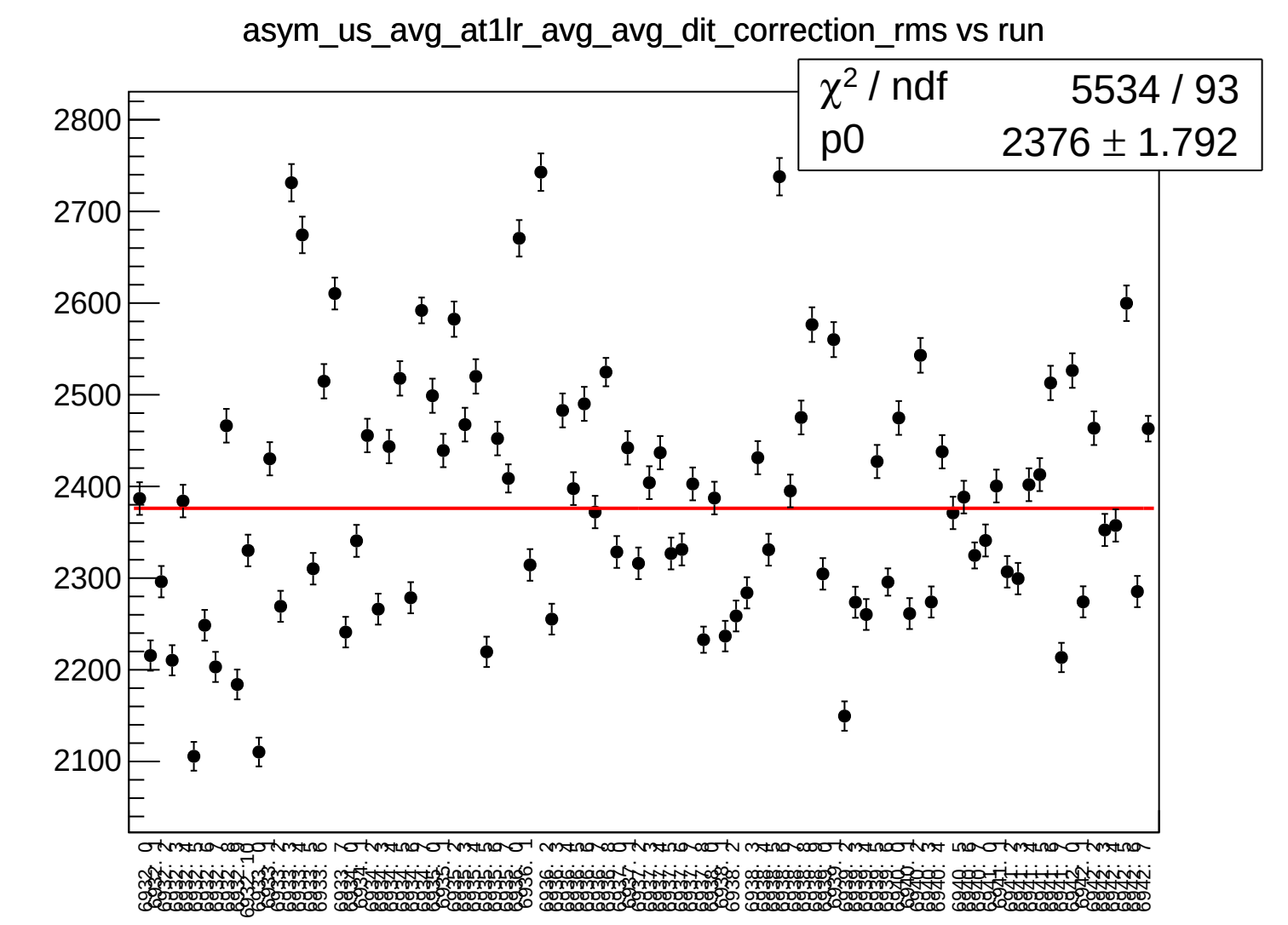
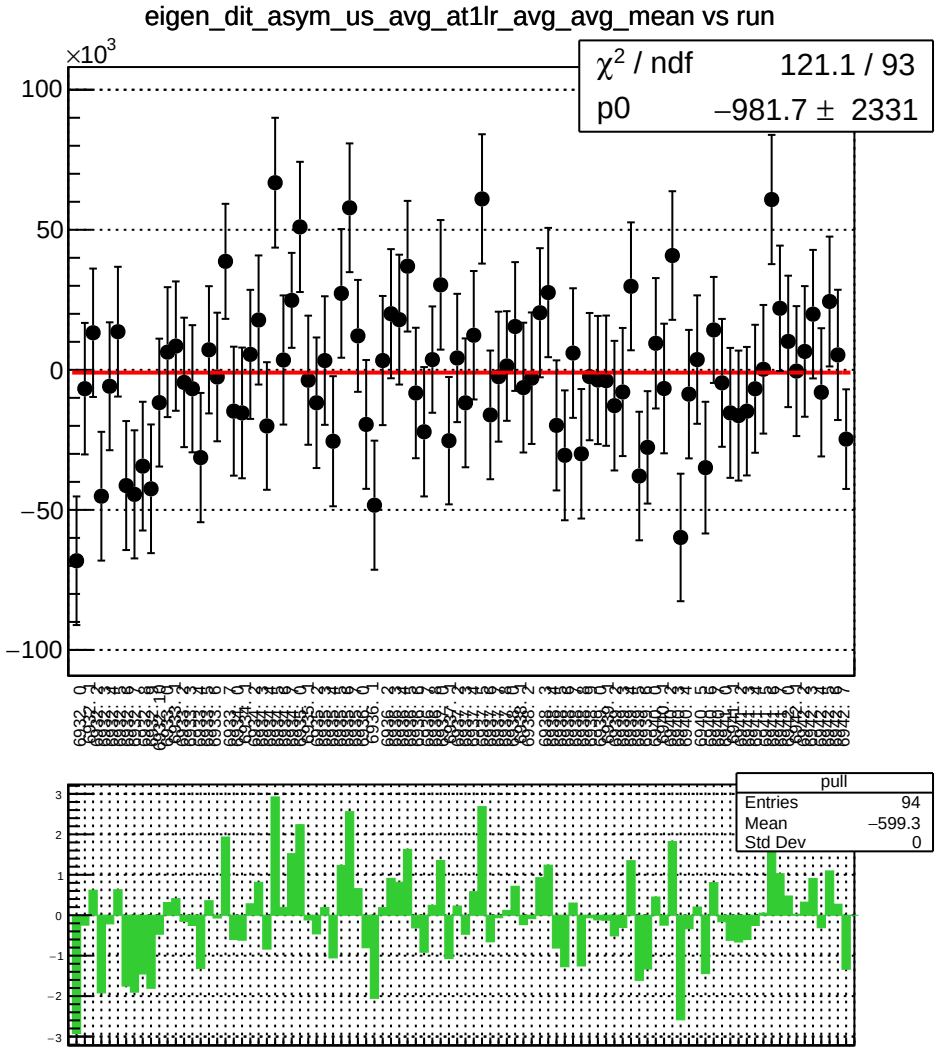
0
2
4
6
8

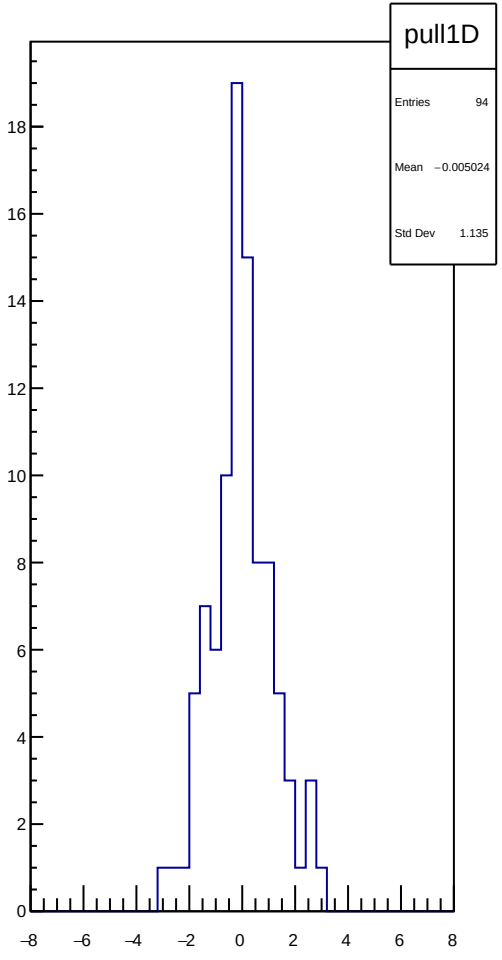

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 104.6 / 93
p0 2189 ± 1.648
2240
2220
2200
2180
2160
2140

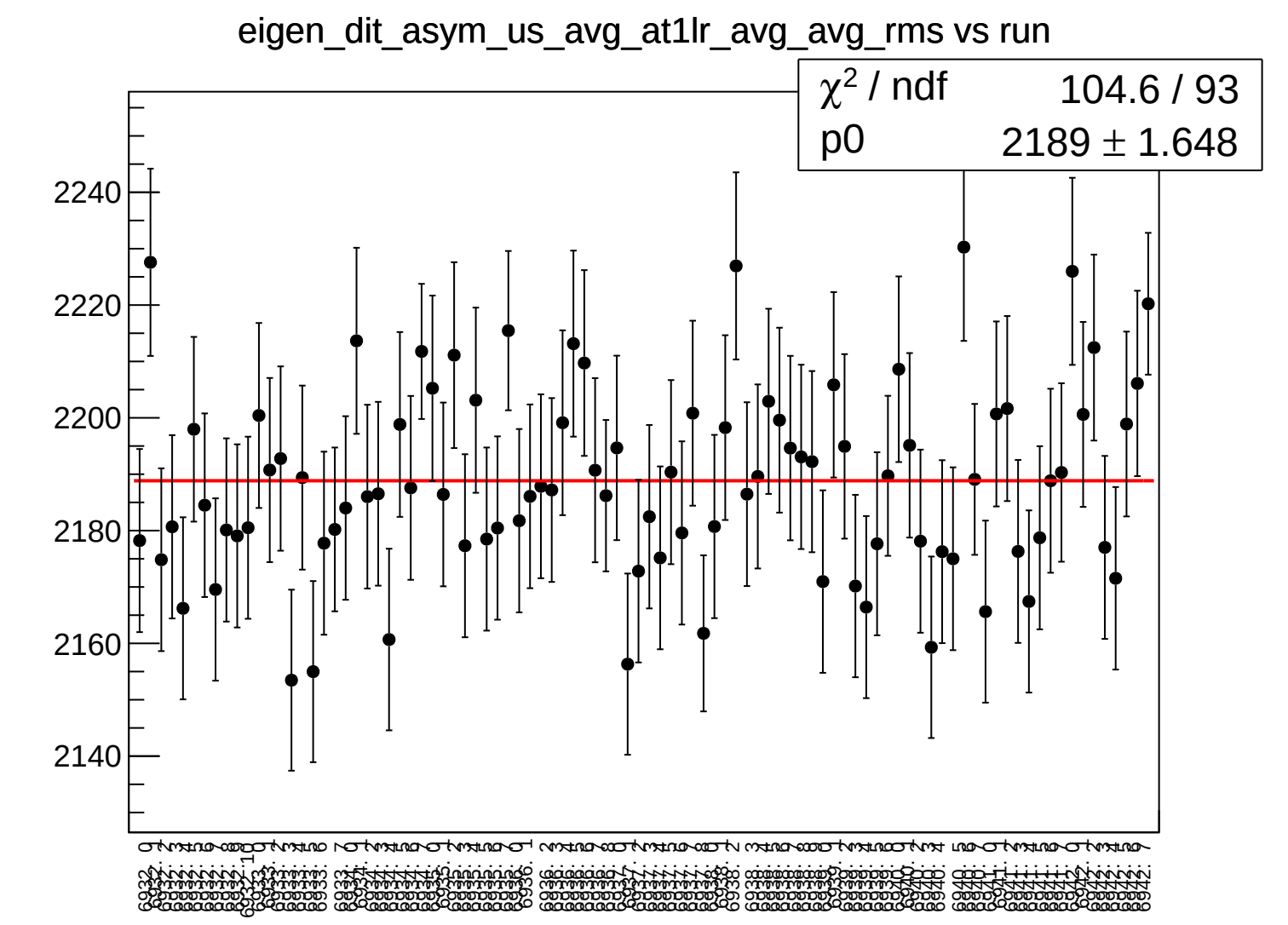

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 2814 ± 2534
pull
Entries 94
Mean 447.9
Std Dev 0

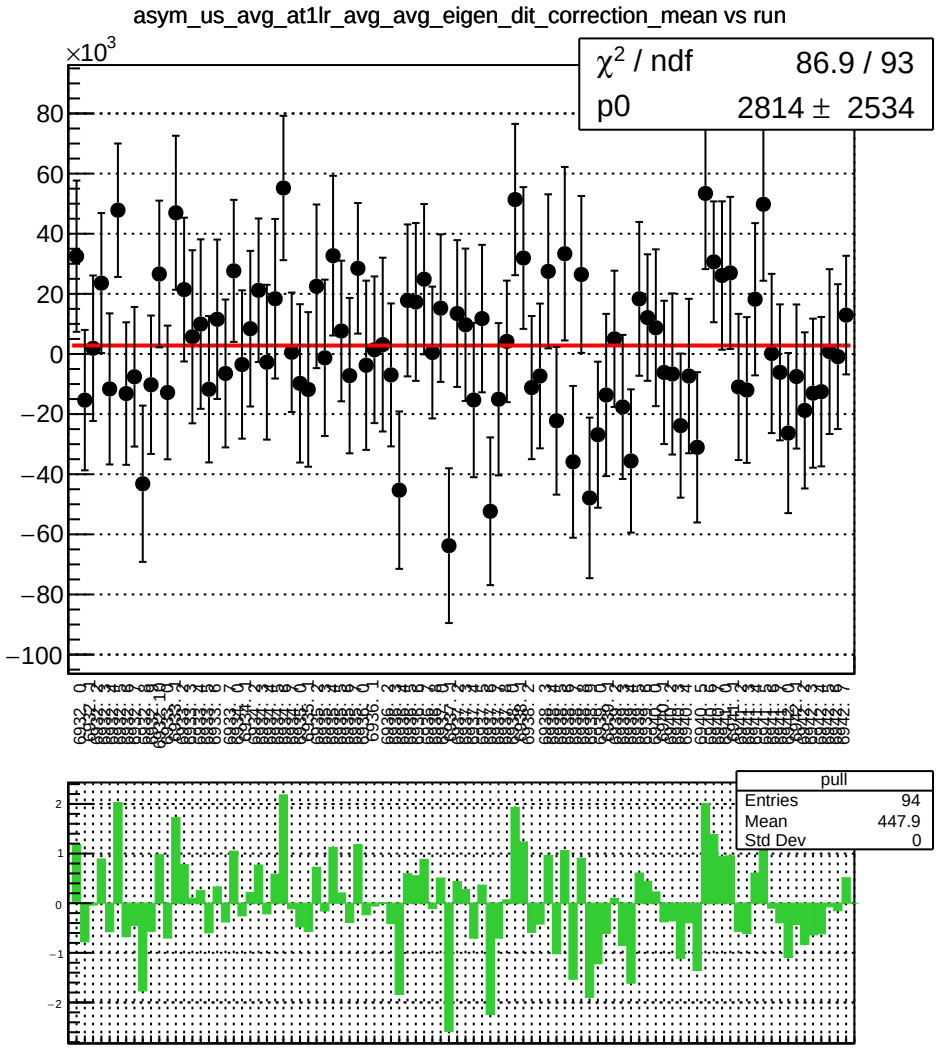

pull1D
Entries 94
Mean −0.007727
Std Dev 0.9615

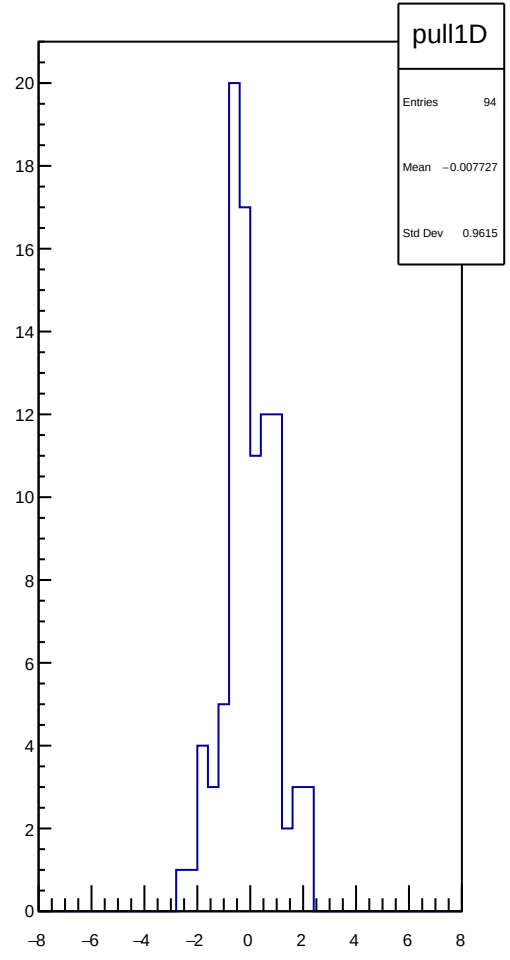

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5534 / 93
p0 2376 ± 1.792
2800
2700
2600
2500
2400
2300
2200
2100

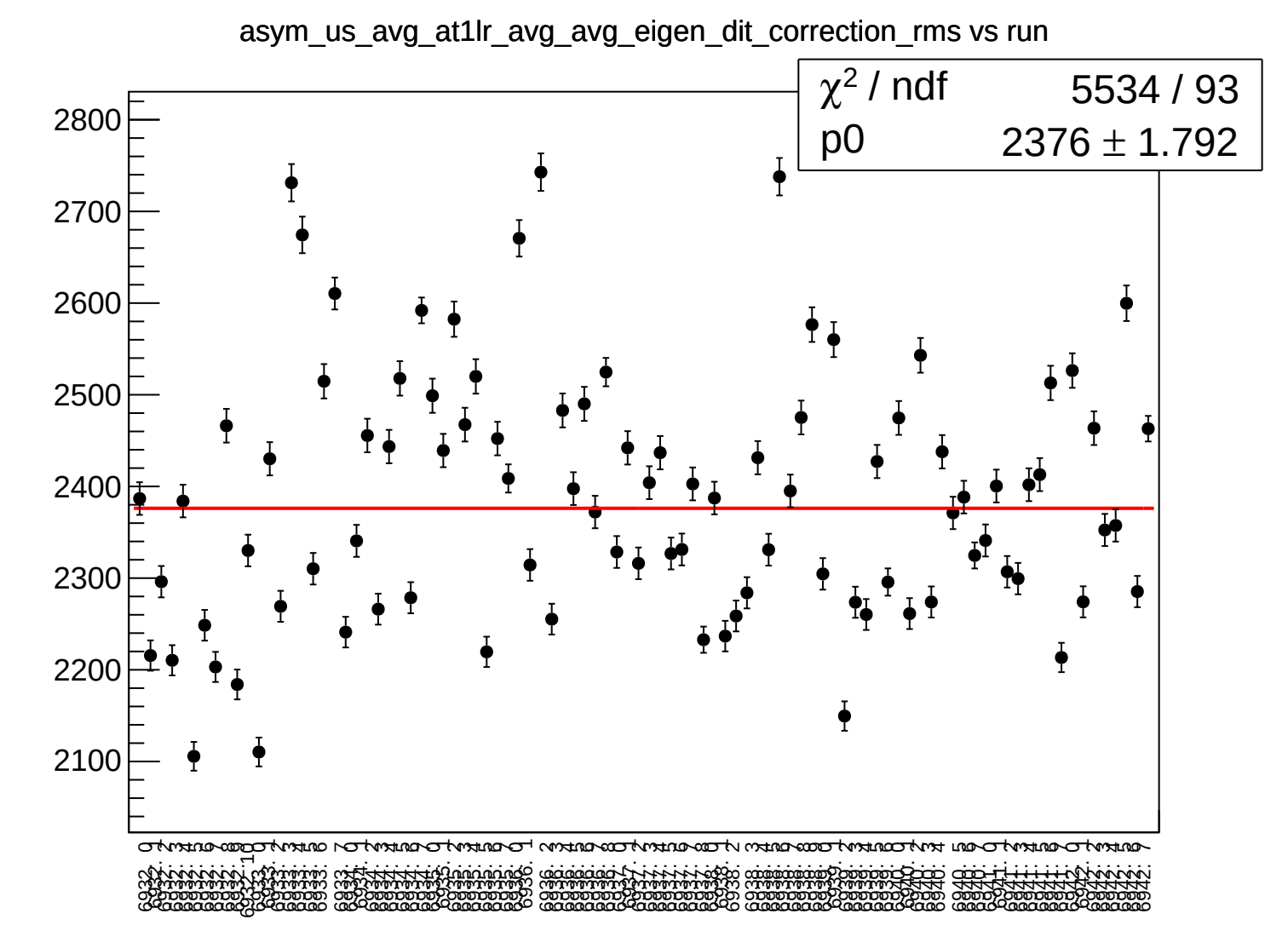

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 121.1 / 93
p0 −981.7 ± 2331
pull
Entries 94
Mean −599.3
Std Dev 0

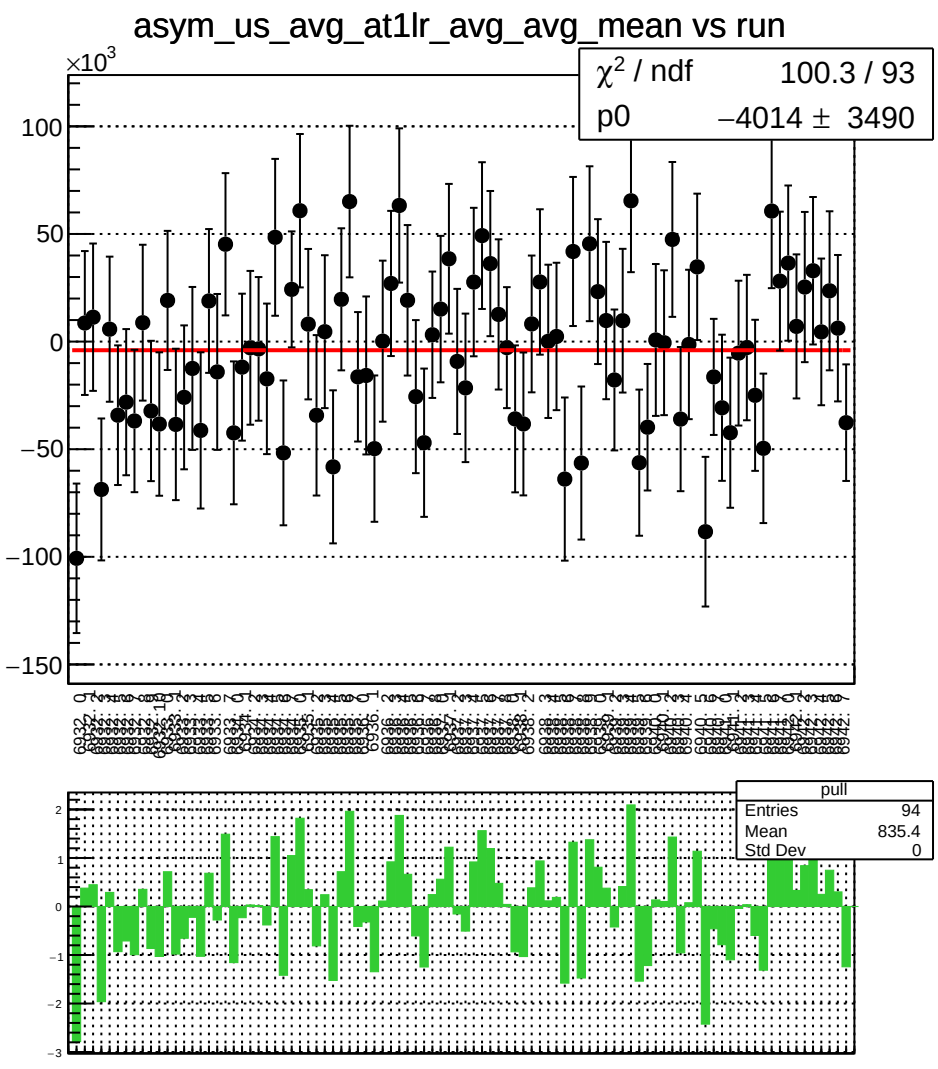

pull1D
Entries 94
Mean −0.005024
Std Dev 1.135

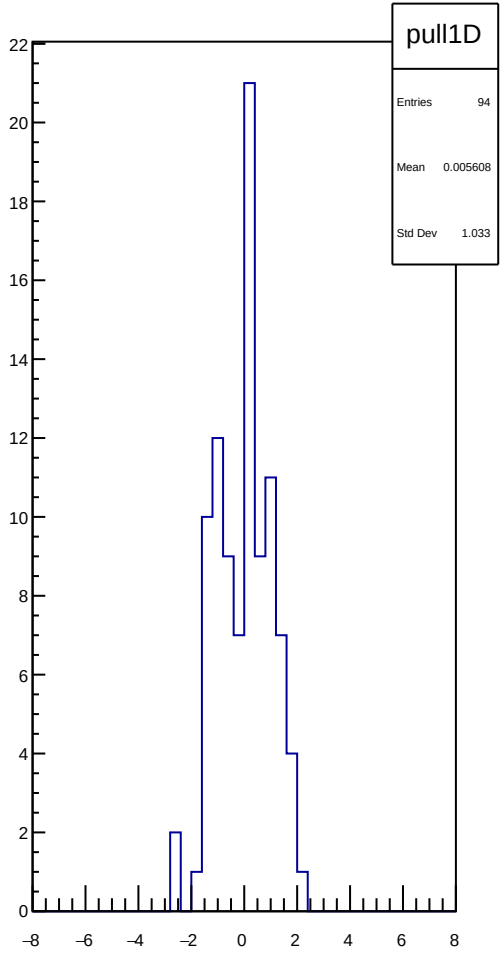

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 104.6 / 93
p0 2189 ± 1.648
2240
2220
2200
2180
2160
2140

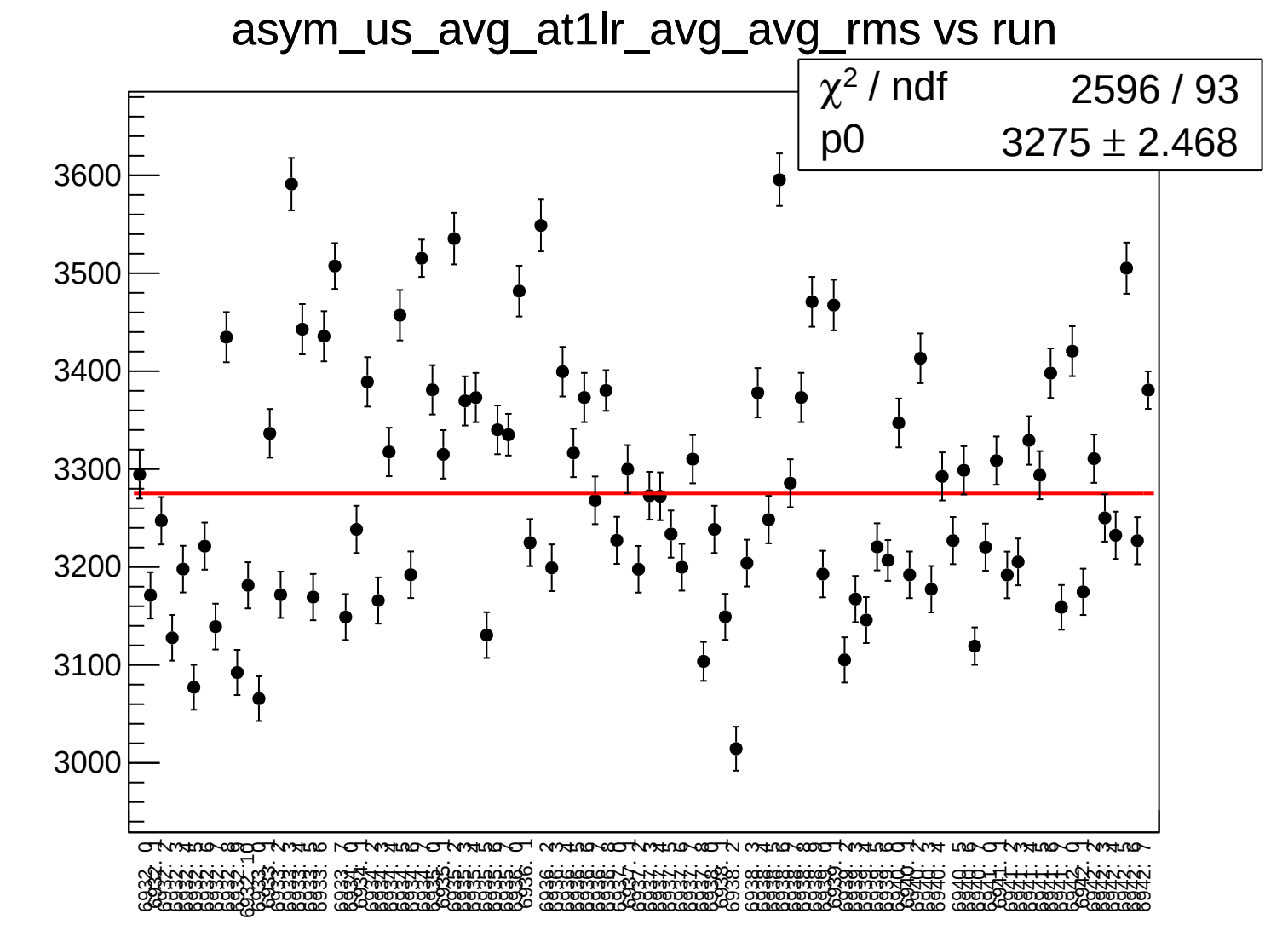

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.9 / 93
p0 2814 ± 2534
pull
Entries 94
Mean 447.9
Std Dev 0

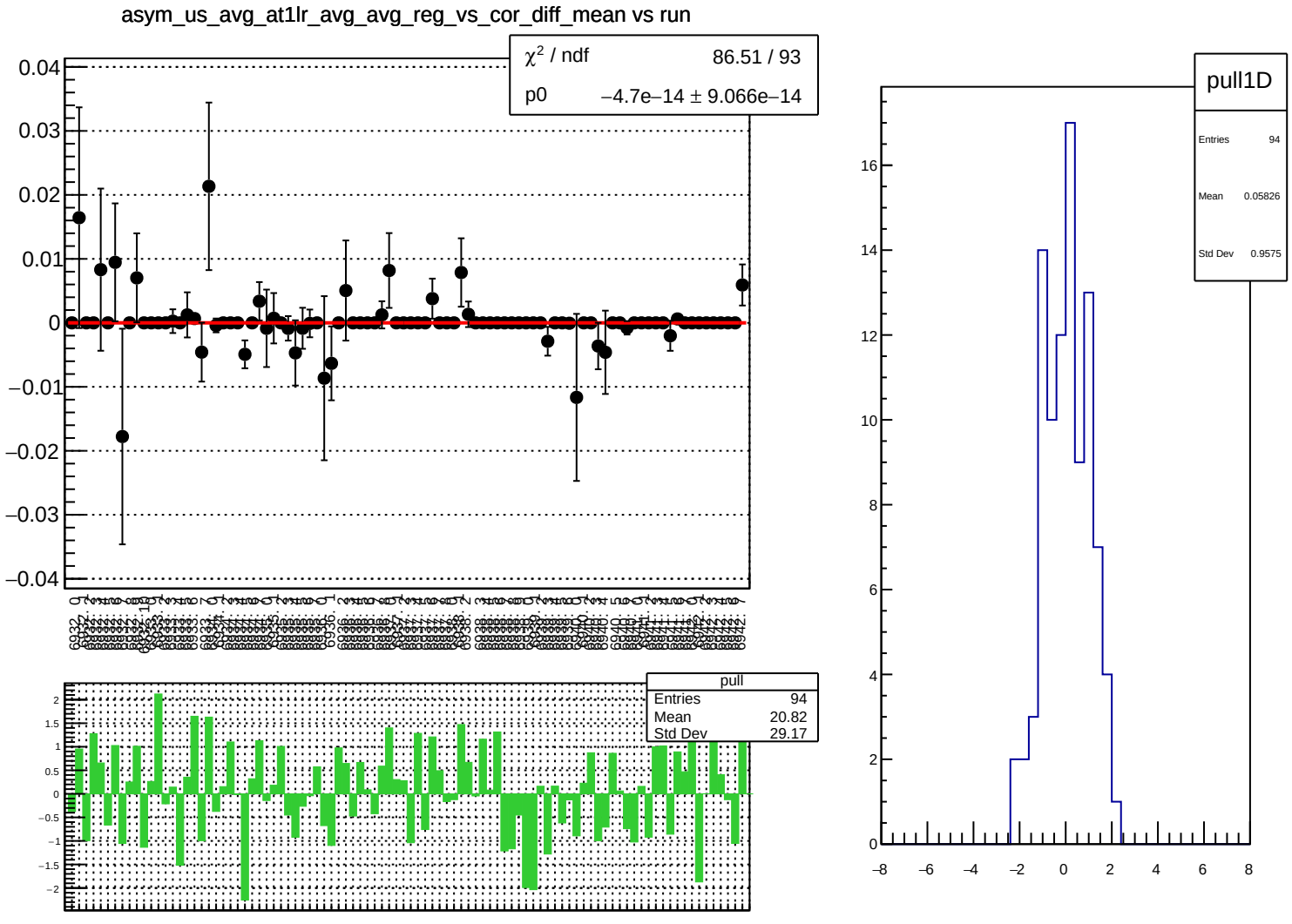

pull1D
Entries 94
Mean −0.007727
Std Dev 0.9615

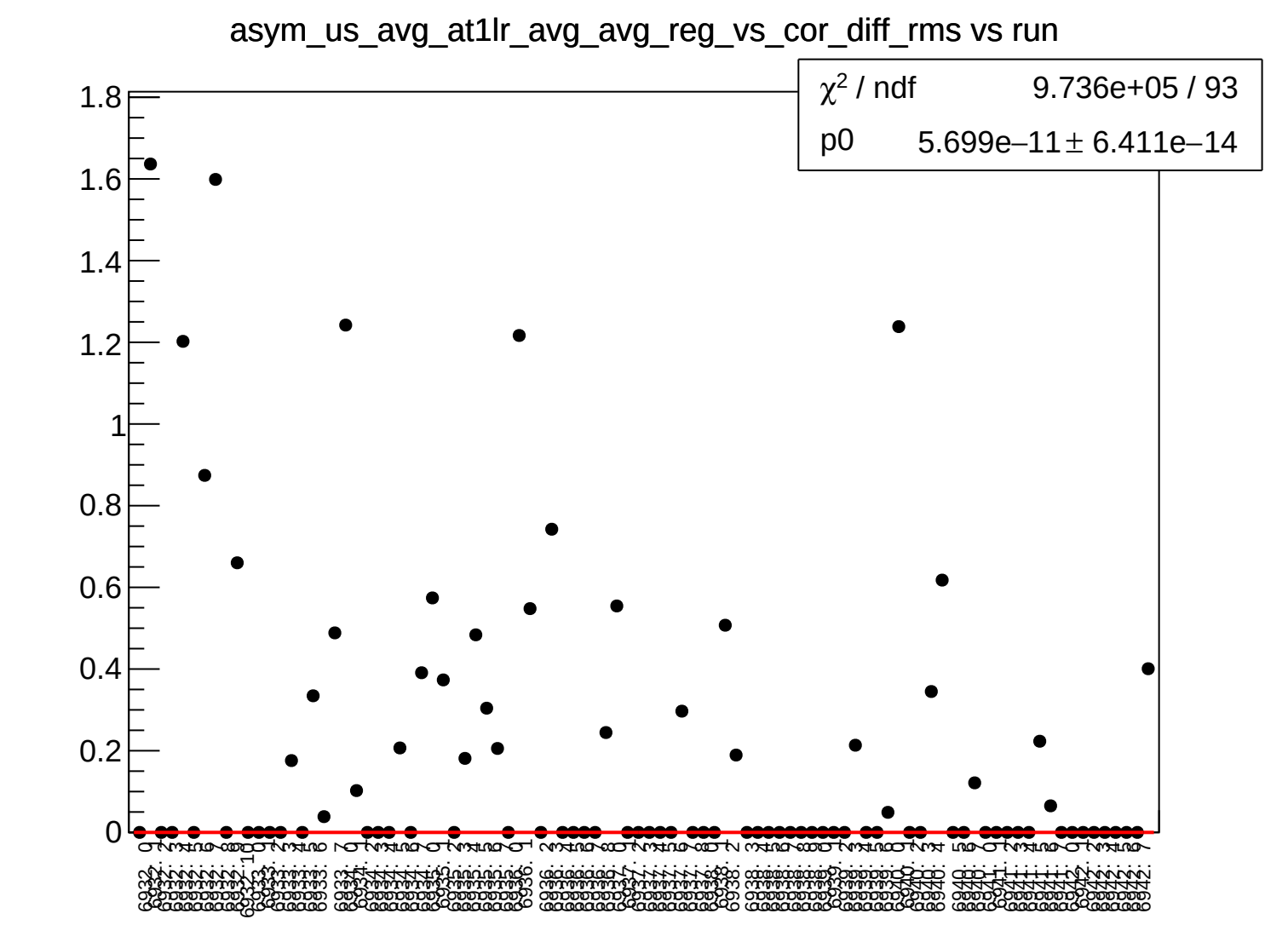

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5534 / 93
p0 2376 ± 1.792
2800
2700
2600
2500
2400
2300
2200
2100

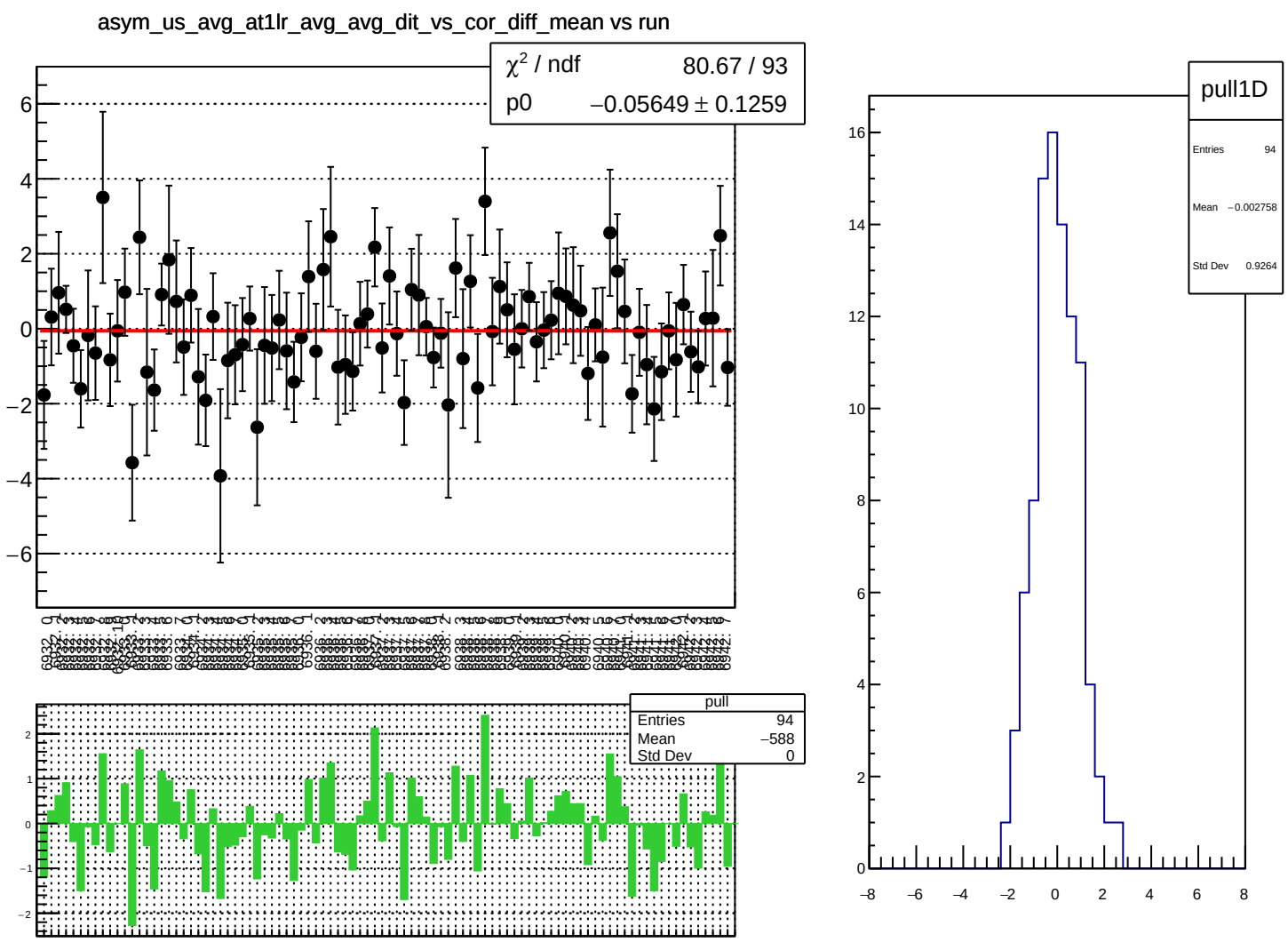

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.3 / 93
p0 −4014 ± 3490
100
50
0
−50
−100
−150
pull
Entries 94
Mean 835.4
Std Dev 0
2
1
0
−1
−2
−3

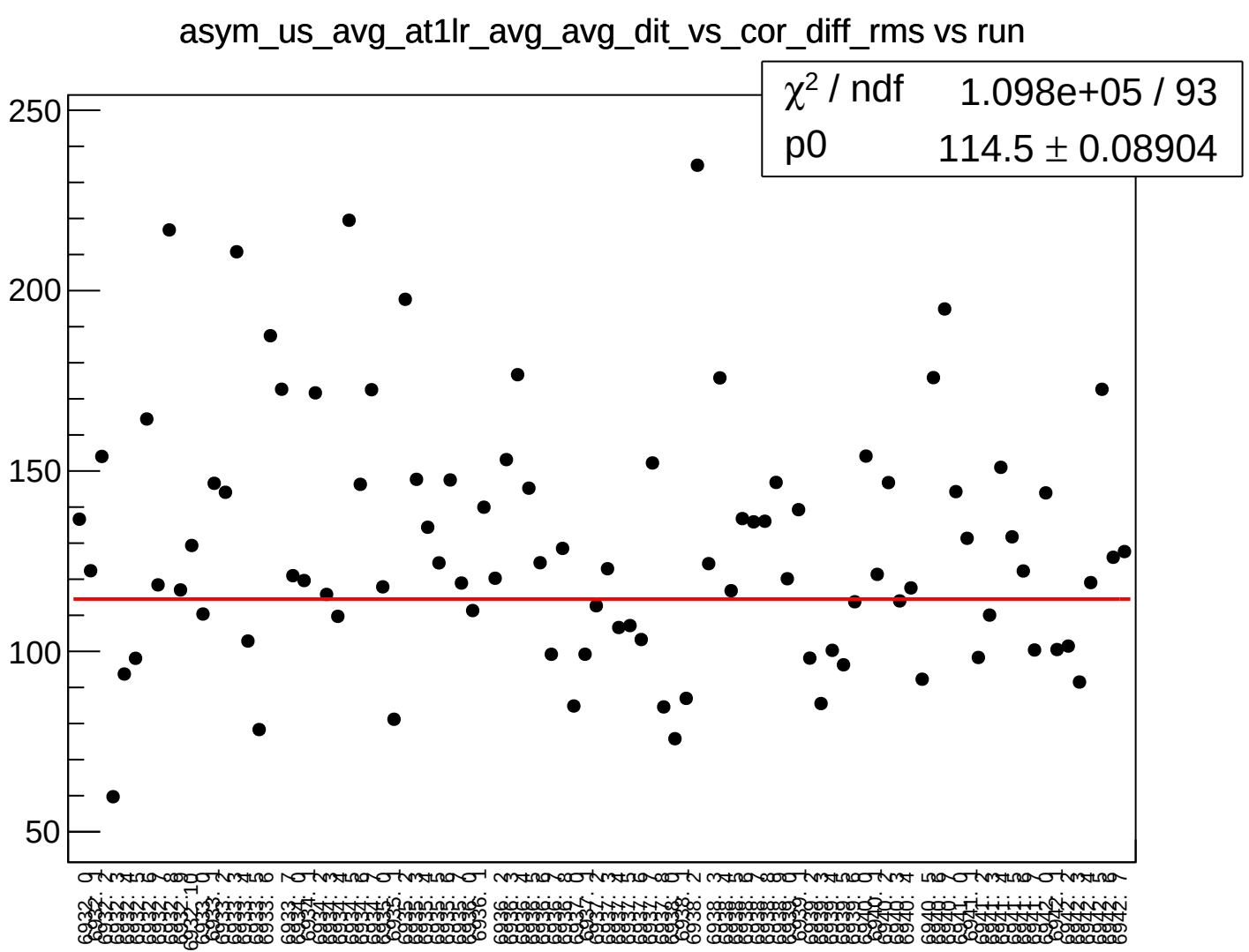

pull1D
Entries 94
Mean 0.005608
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

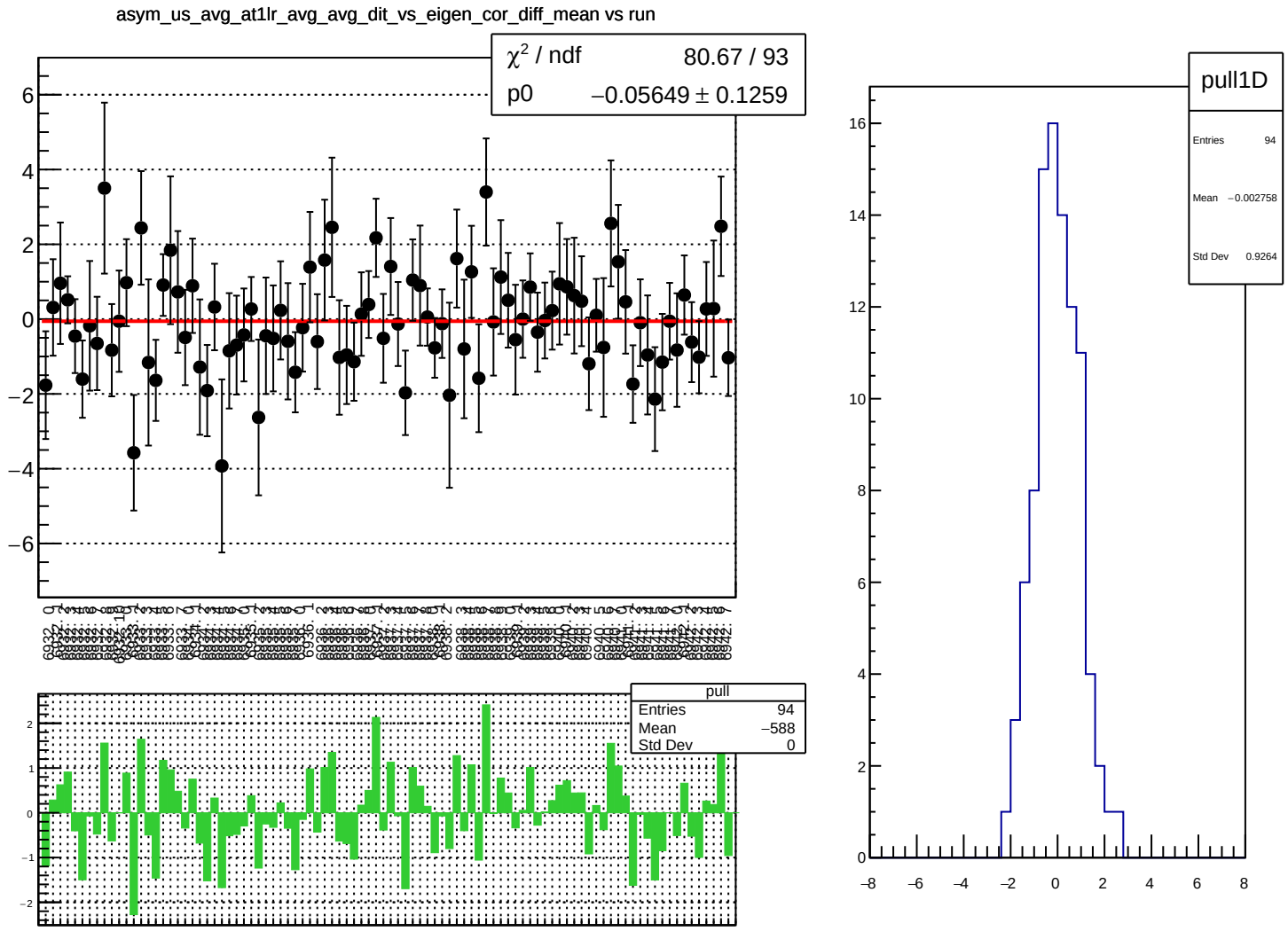

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2596 / 93
p0 3275 ± 2.468
3600
3500
3400
3300
3200
3100
3000

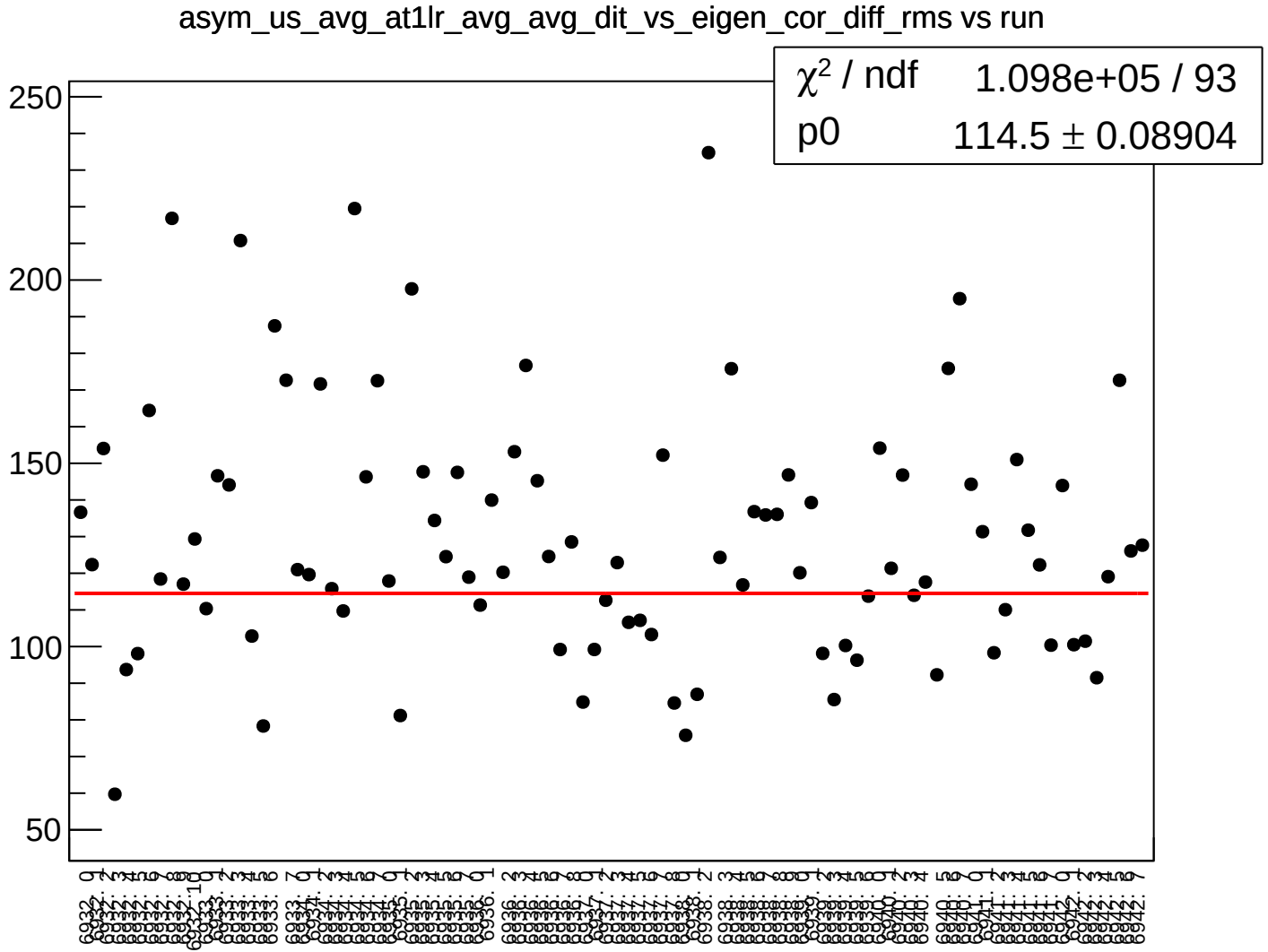

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.51 / 93
p0 −4.7e−14 ± 9.066e−14
pull
Entries 94
Mean 20.82
Std Dev 29.17
pull1D
Entries 94
Mean 0.05826
Std Dev 0.9575

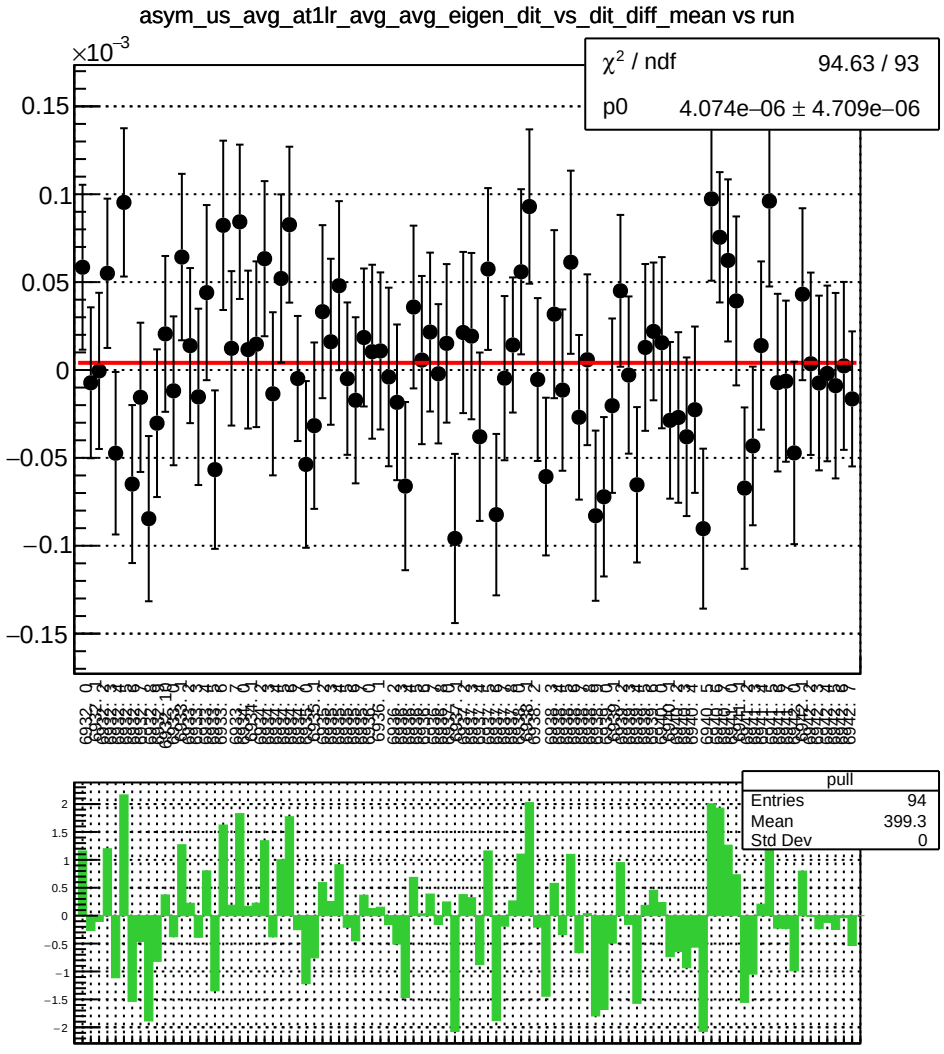

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.736e+05 / 93
p0 5.699e−11 ± 6.411e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

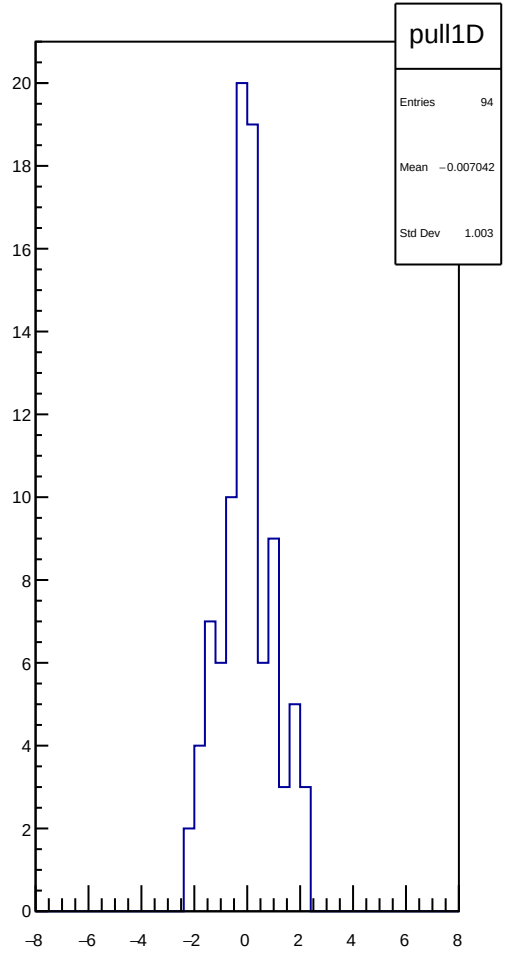

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.67 / 93
p0 −0.05649 ± 0.1259
pull
Entries 94
Mean −588
Std Dev 0
pull1D
Entries 94
Mean −0.002758
Std Dev 0.9264

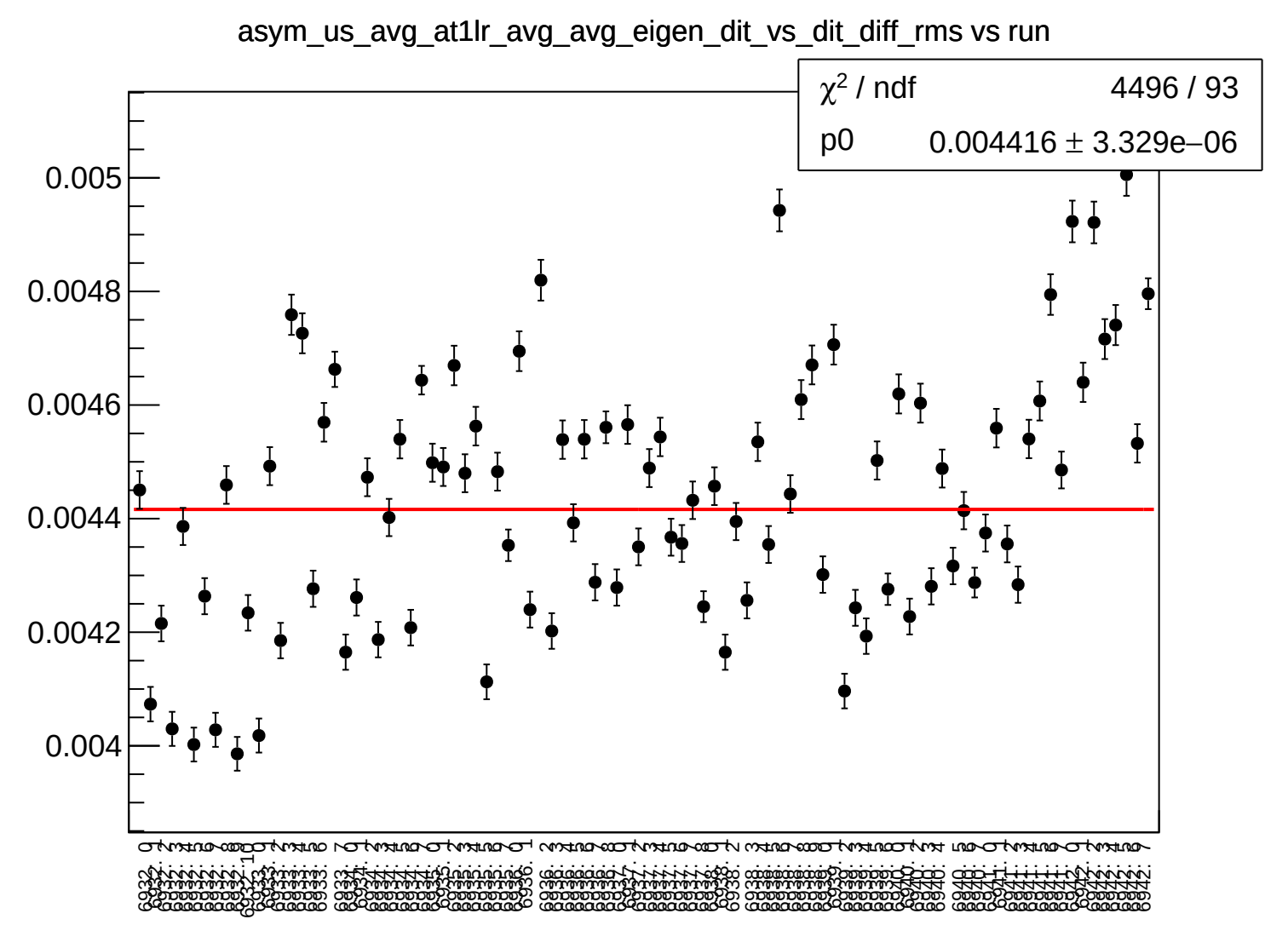

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 93
p0 114.5 ± 0.08904
250
200
150
100
50

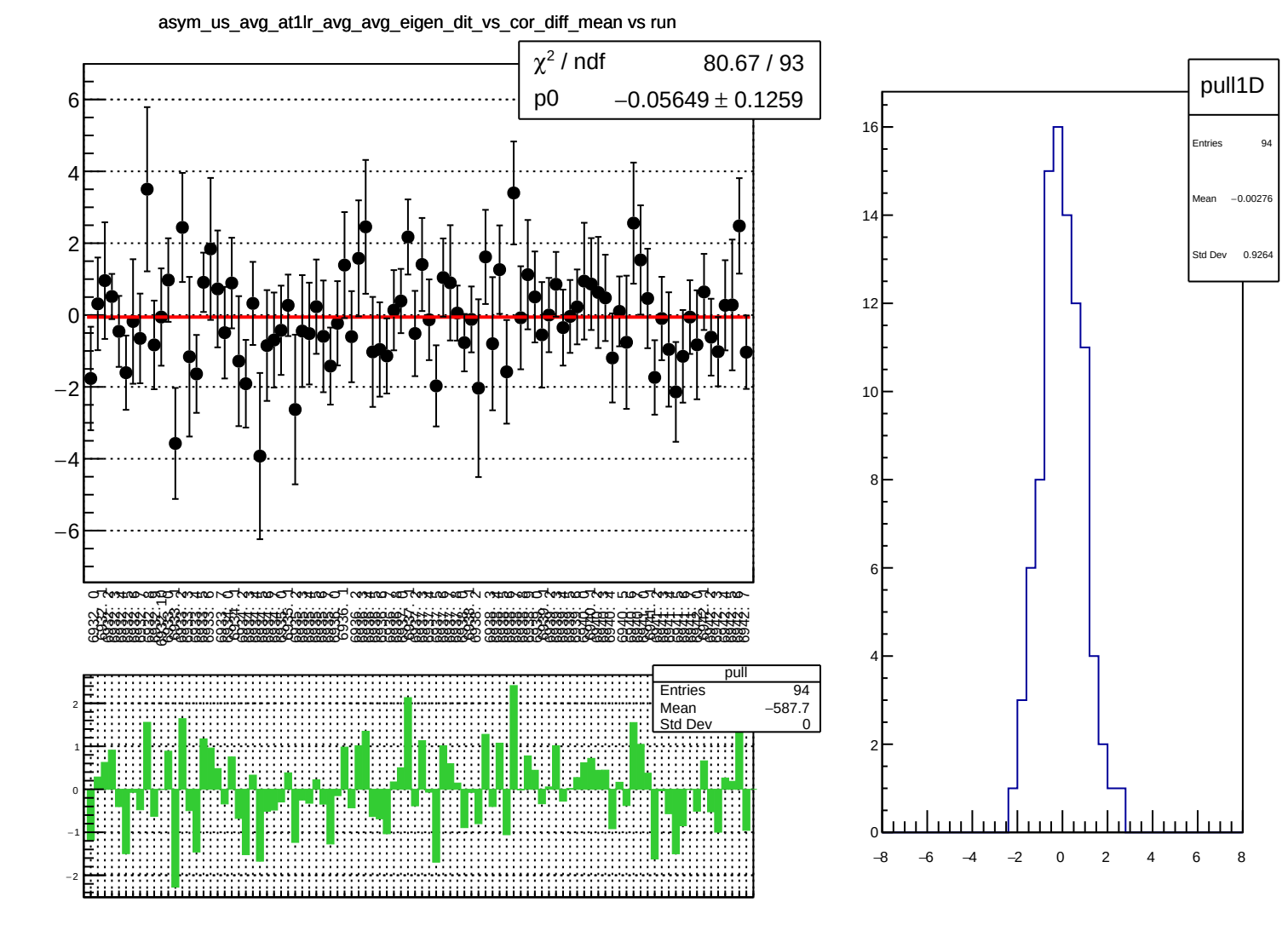

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.67 / 93
p0 −0.05649 ± 0.1259
pull
Entries 94
Mean −588
Std Dev 0
pull1D
Entries 94
Mean −0.002758
Std Dev 0.9264

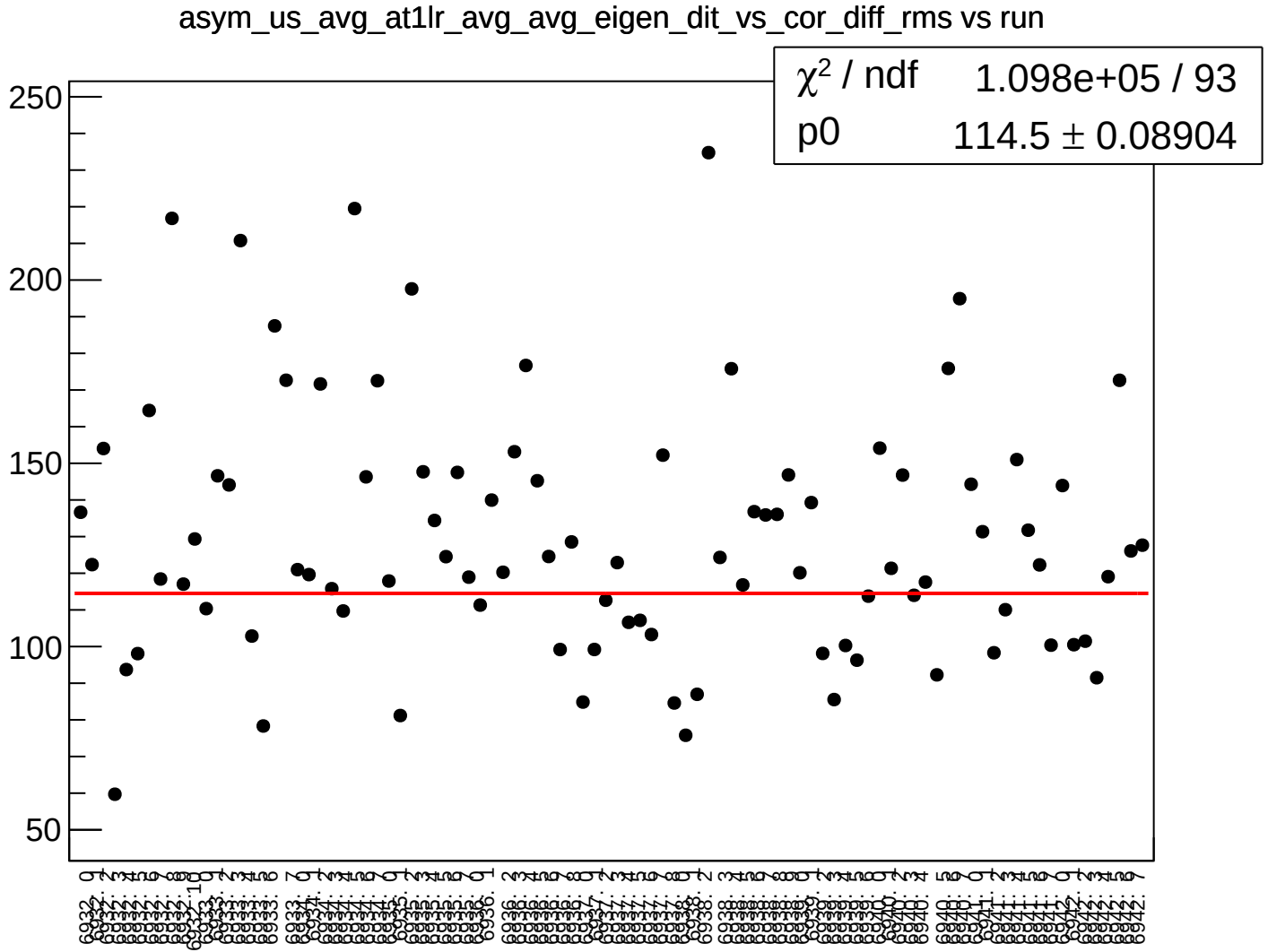

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 93
p0 114.5 ± 0.08904
250
200
150
100
50

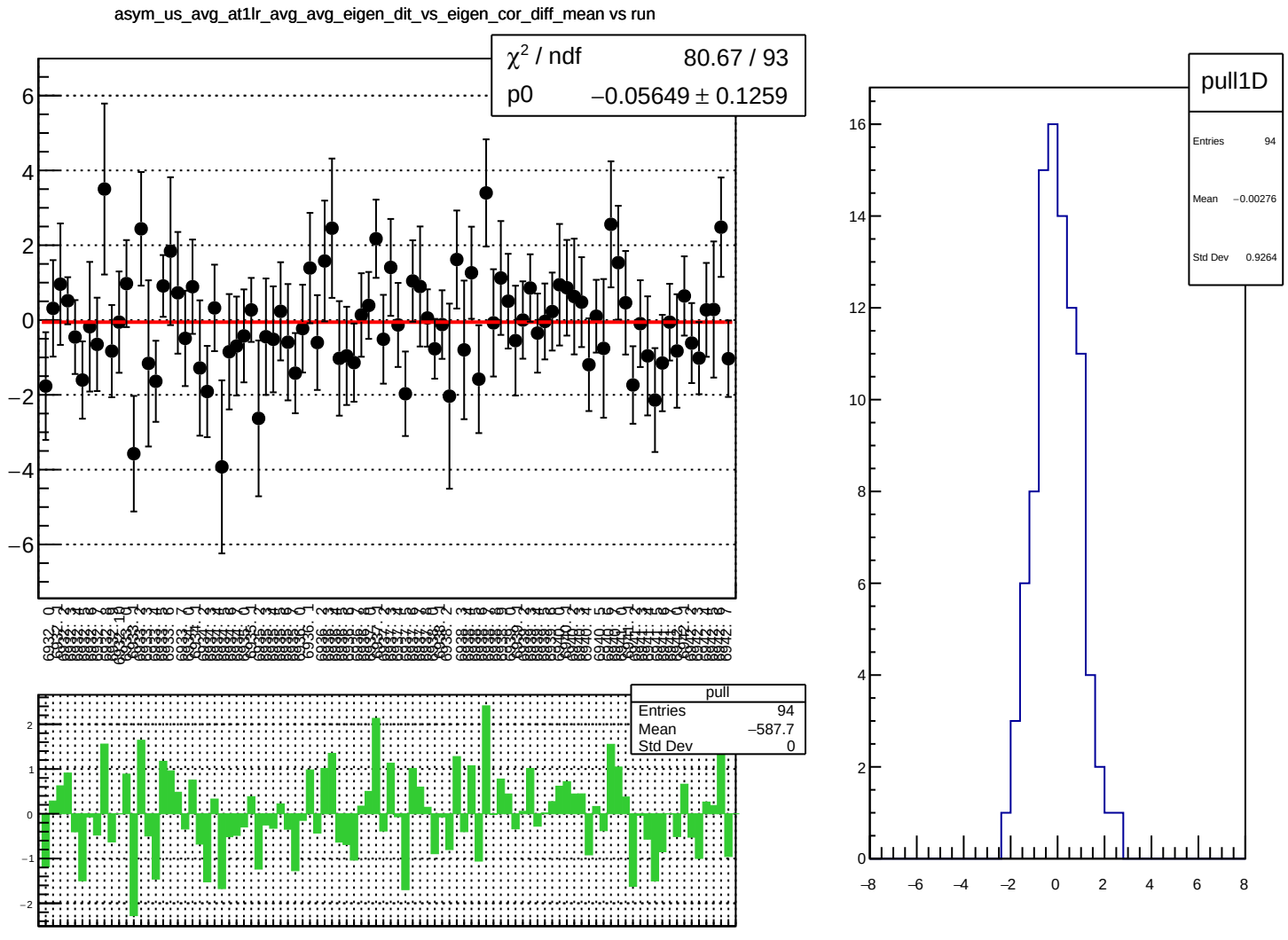

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.63 / 93
p0 4.074e−06 ± 4.709e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 399.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

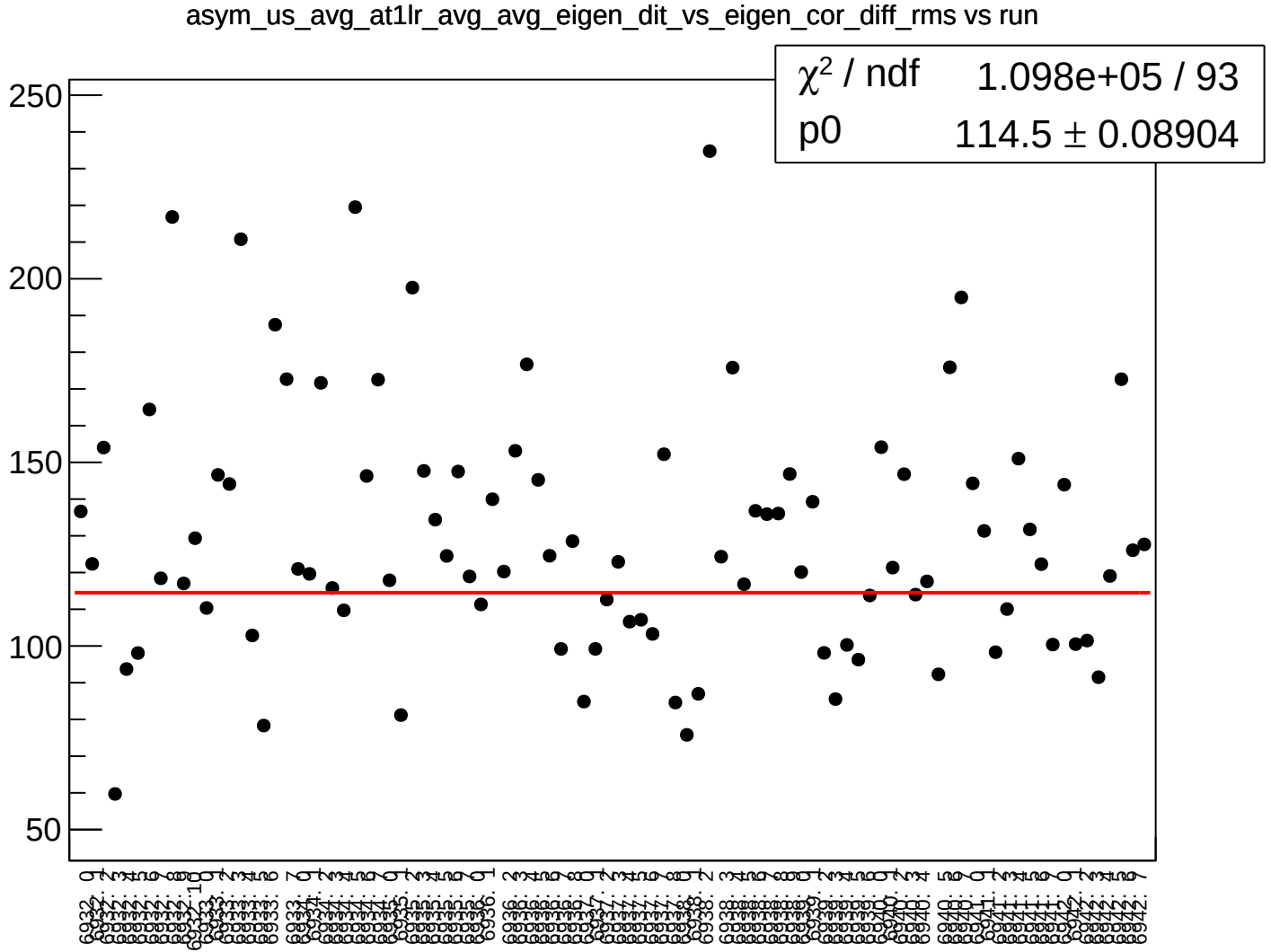

pull1D
Entries 94
Mean −0.007042
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

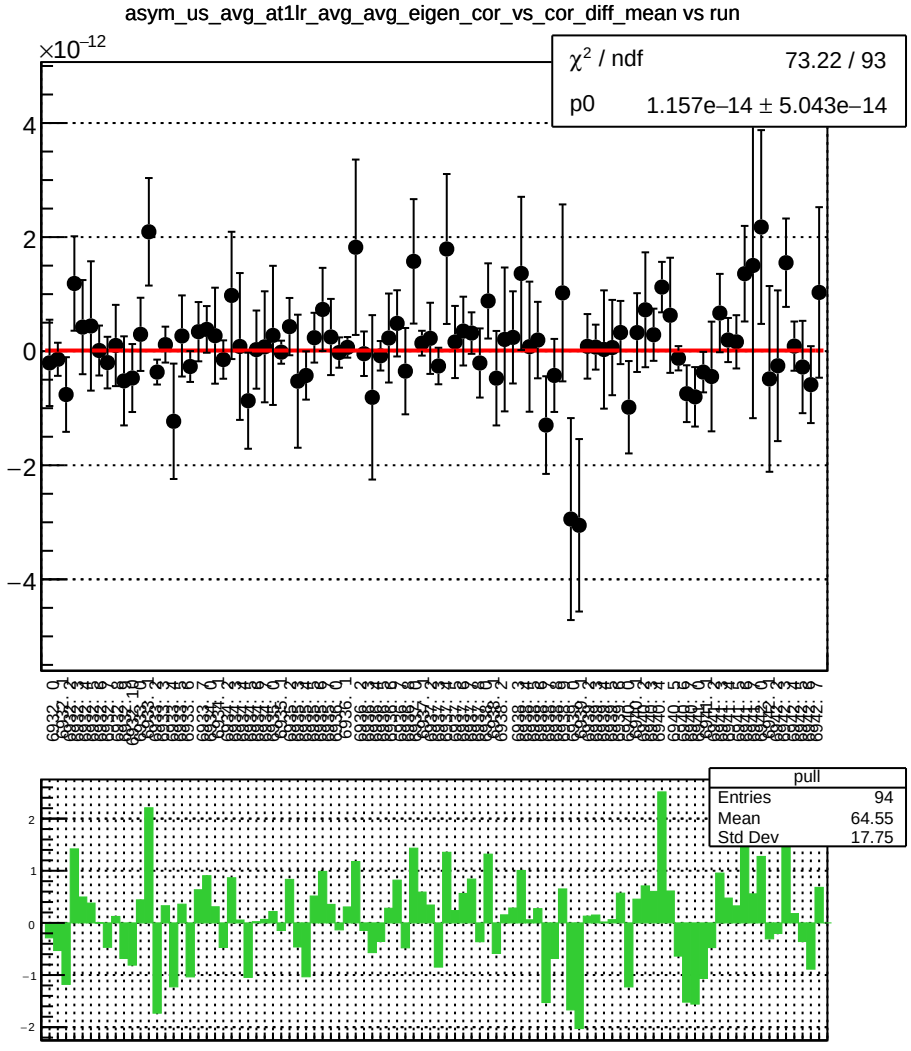

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4496 / 93
p0 0.004416 ± 3.329e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

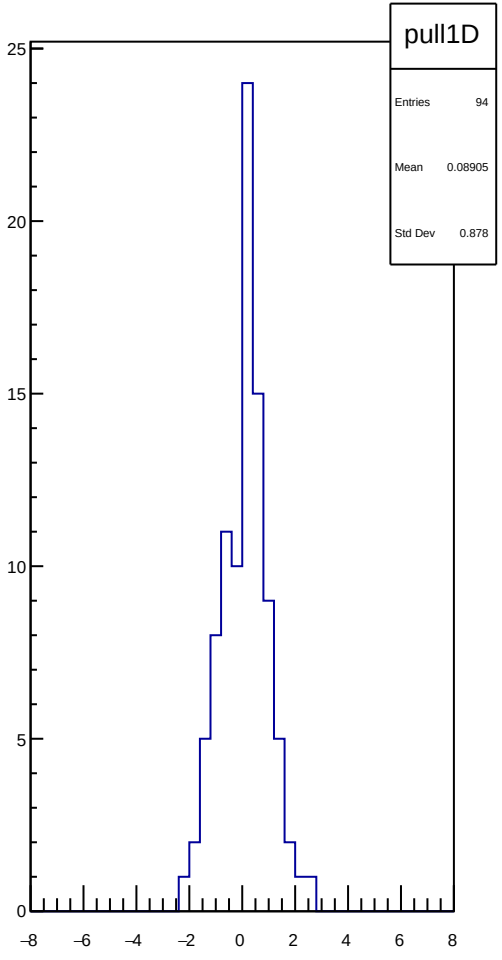

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.67 / 93
p0 −0.05649 ± 0.1259
pull
Entries 94
Mean −587.7
Std Dev 0
pull1D
Entries 94
Mean −0.00276
Std Dev 0.9264

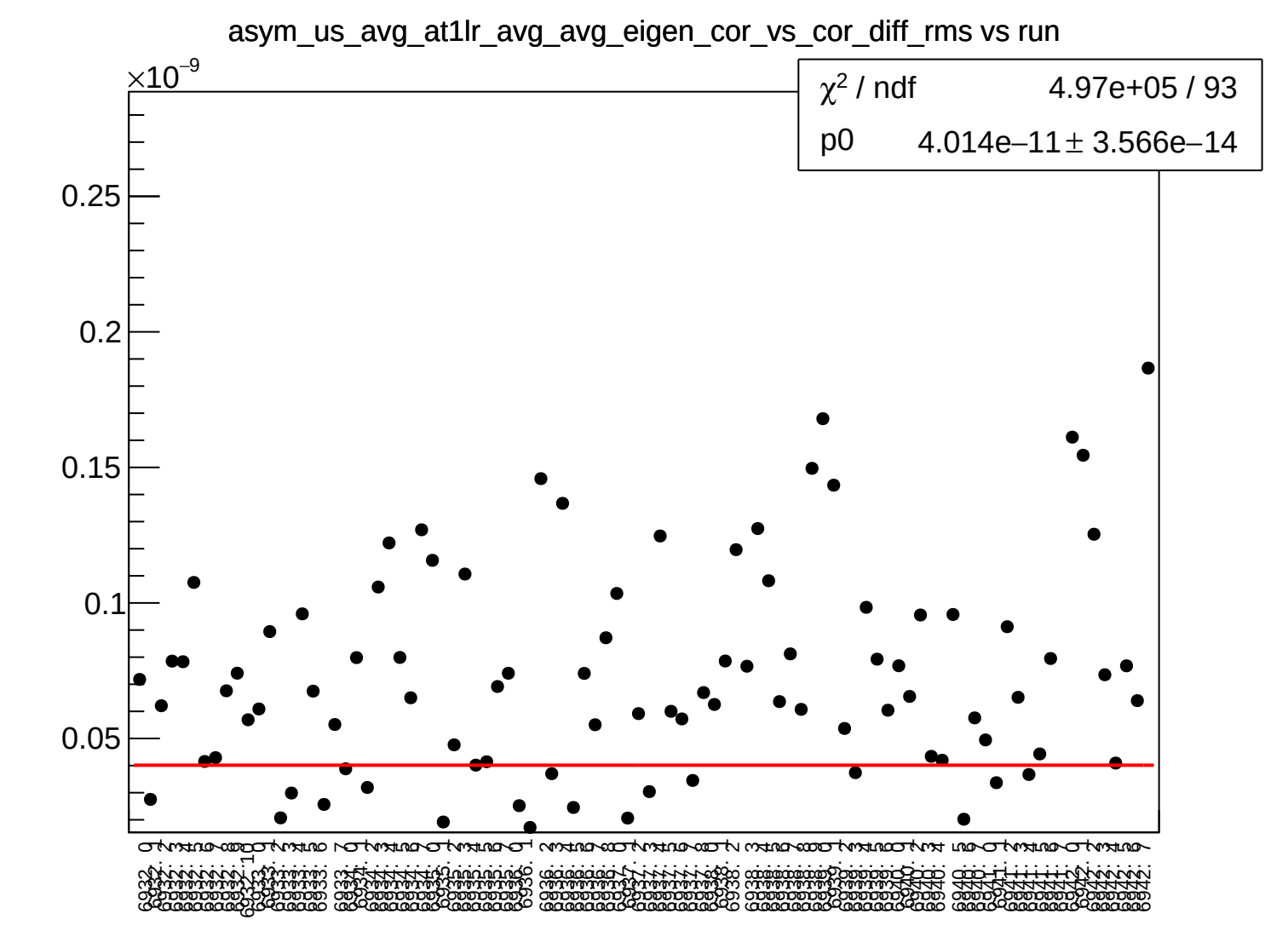

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 93
p0 114.5 ± 0.08904
250
200
150
100
50

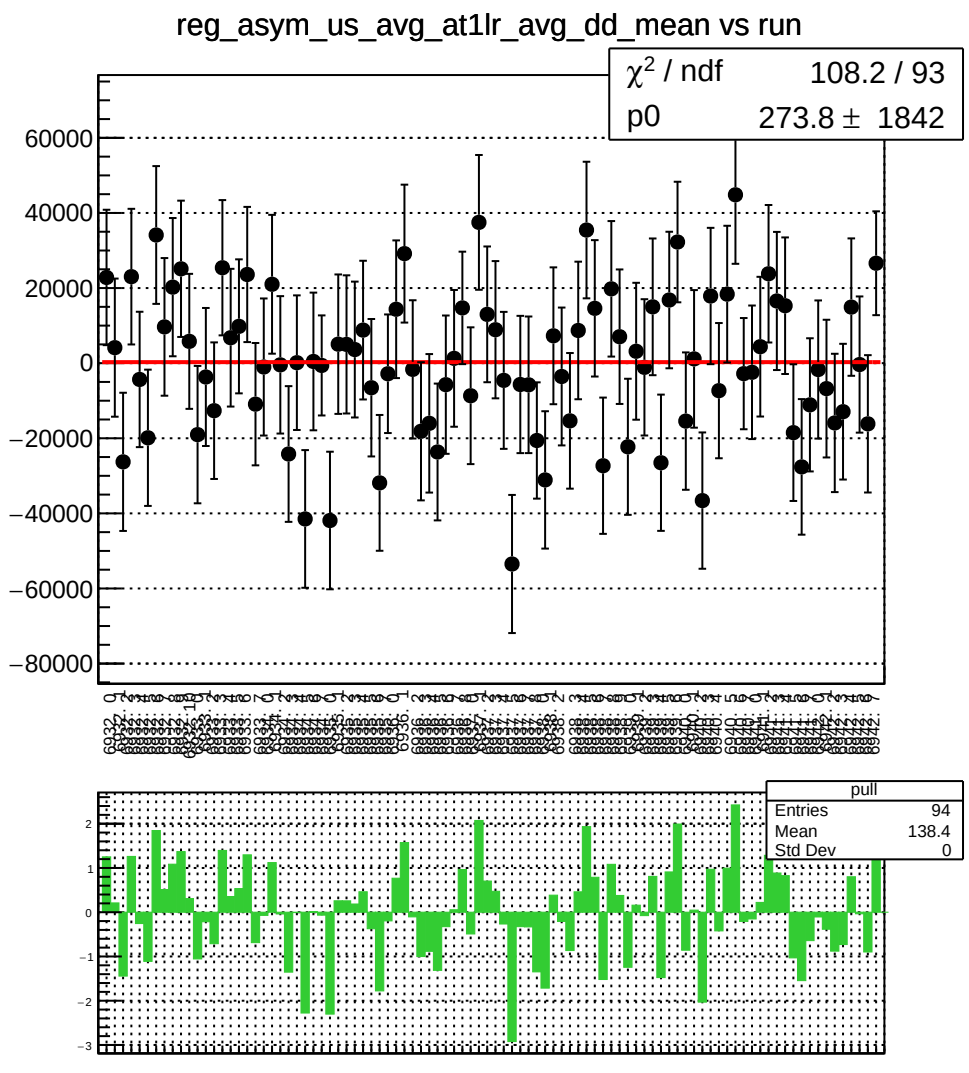

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.67 / 93
p0 −0.05649 ± 0.1259
pull
Entries 94
Mean −587.7
Std Dev 0
pull1D
Entries 94
Mean −0.00276
Std Dev 0.9264

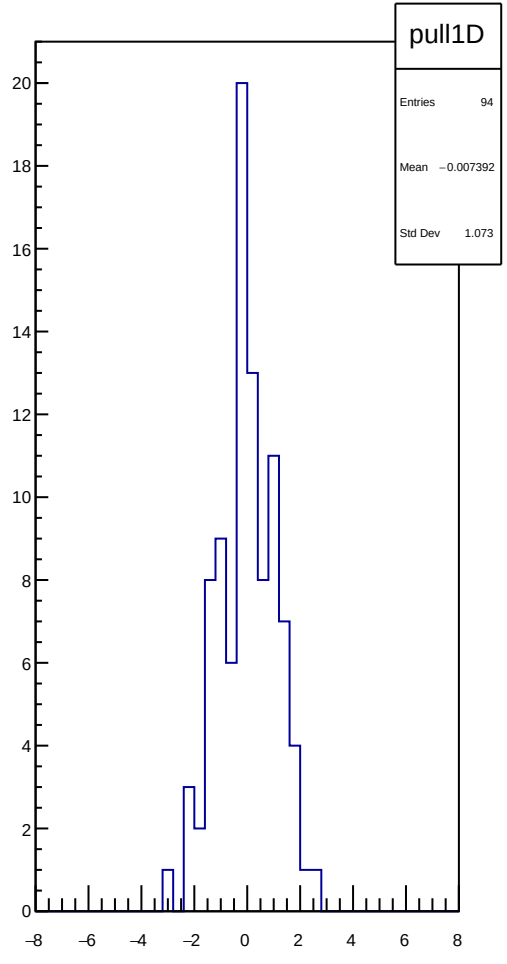

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.098e+05 / 93
p0 114.5 ± 0.08904
250
200
150
100
50

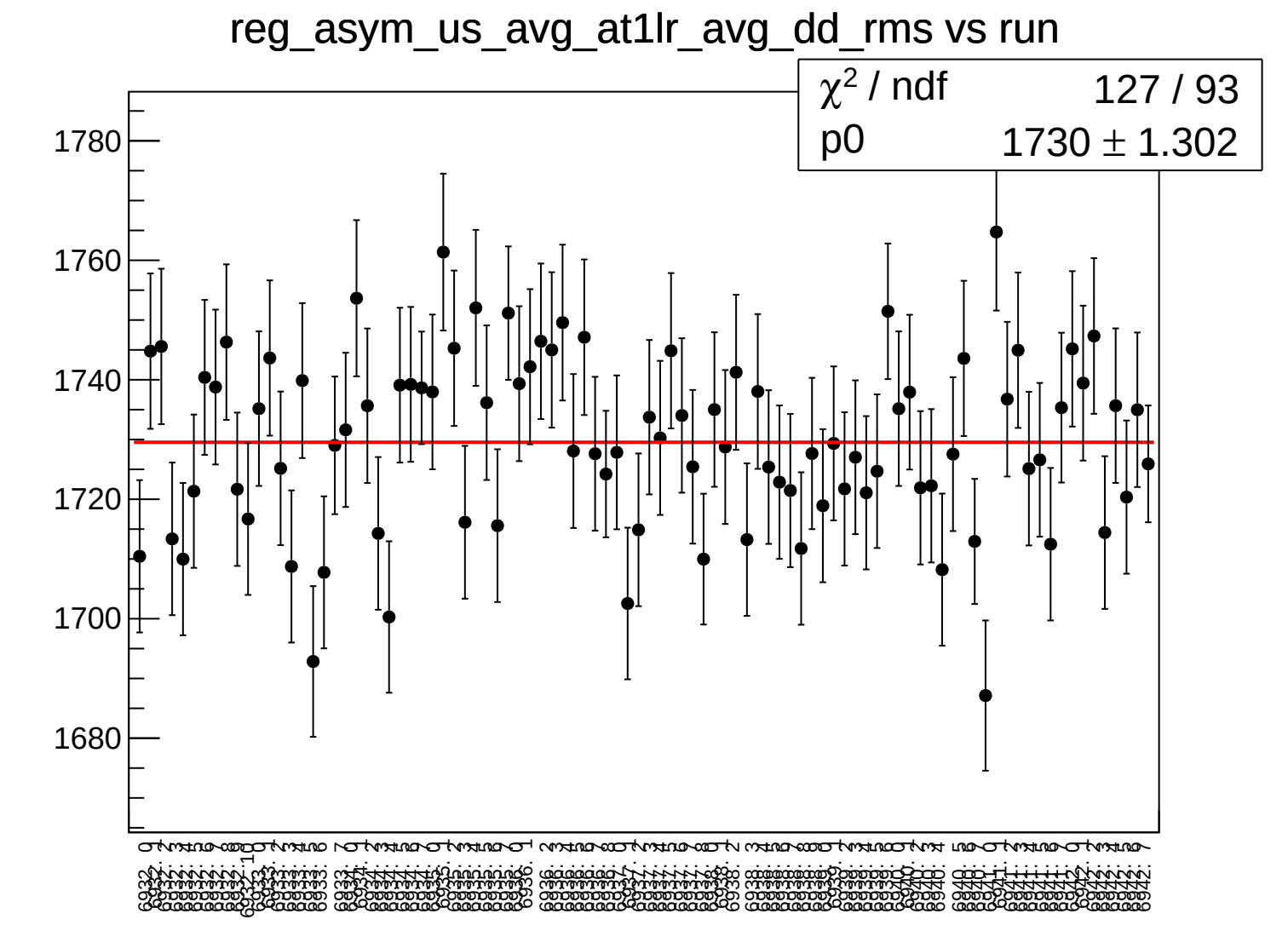

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.22 / 93
p0 1.157e−14 ± 5.043e−14
pull
Entries 94
Mean 64.55
Std Dev 17.75

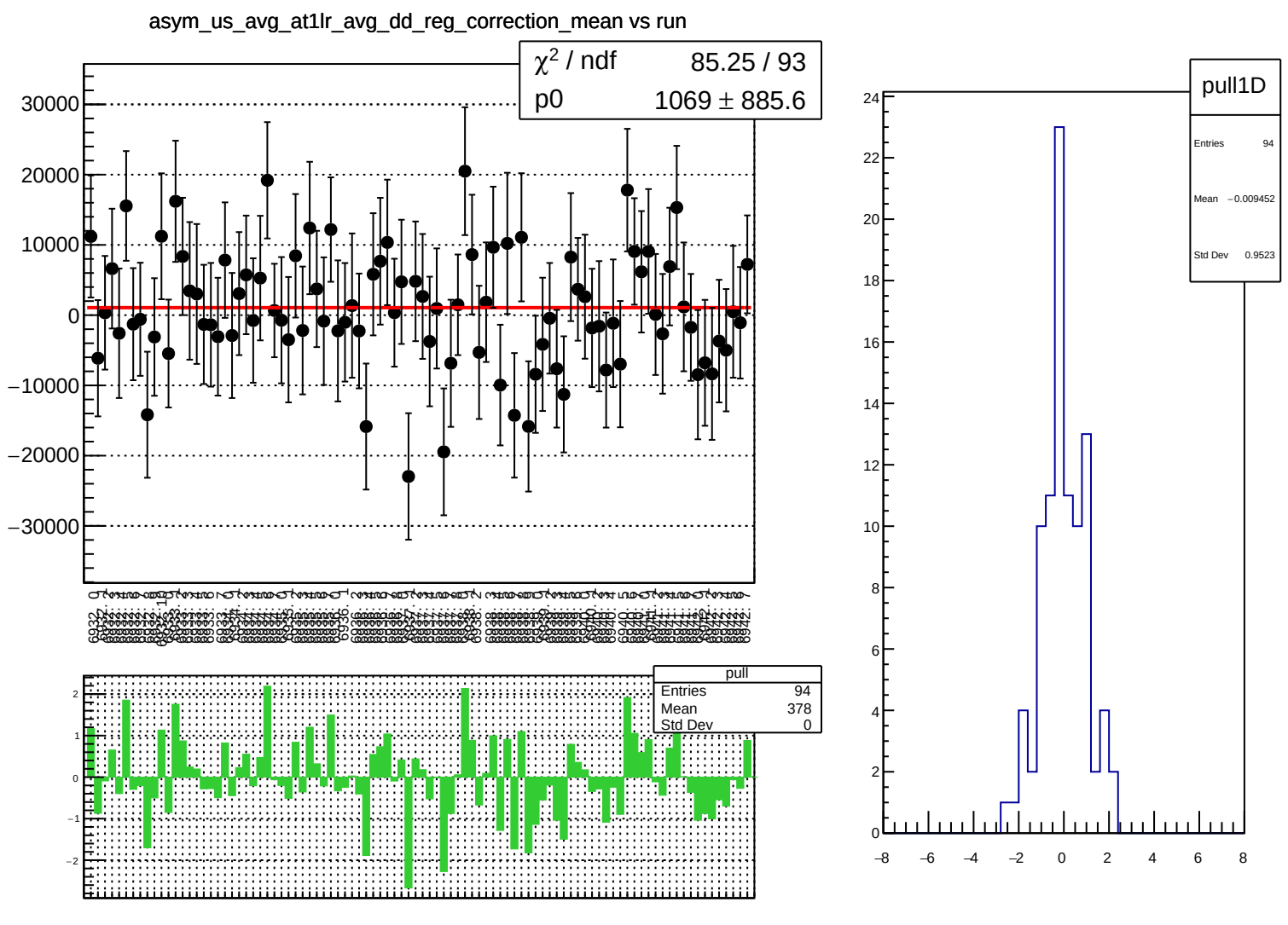

pull1D
Entries 94
Mean 0.08905
Std Dev 0.878

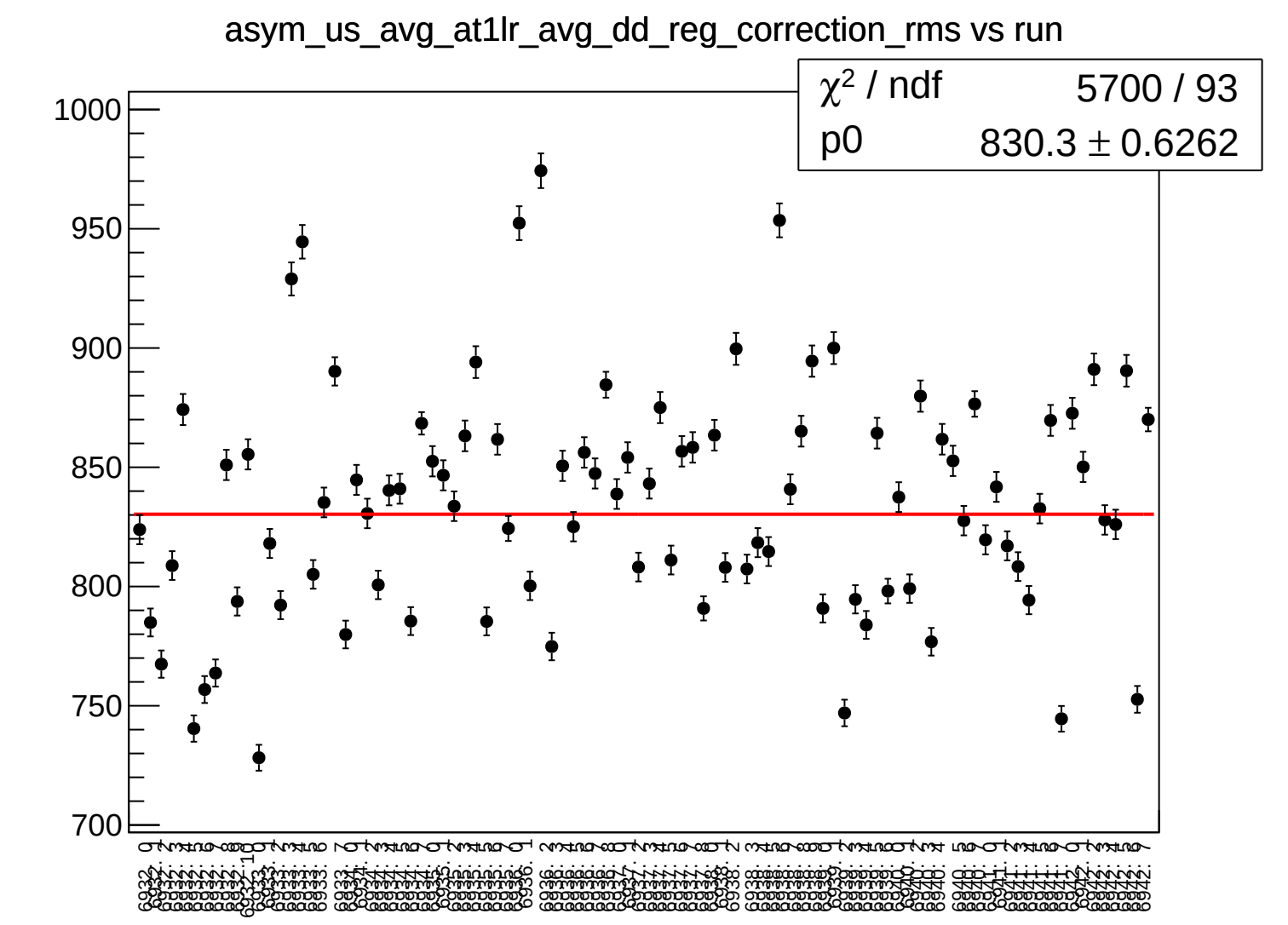

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.97e+05 / 93
p0 4.014e−11 ± 3.566e−14
0.25
0.2
0.15
0.1
0.05

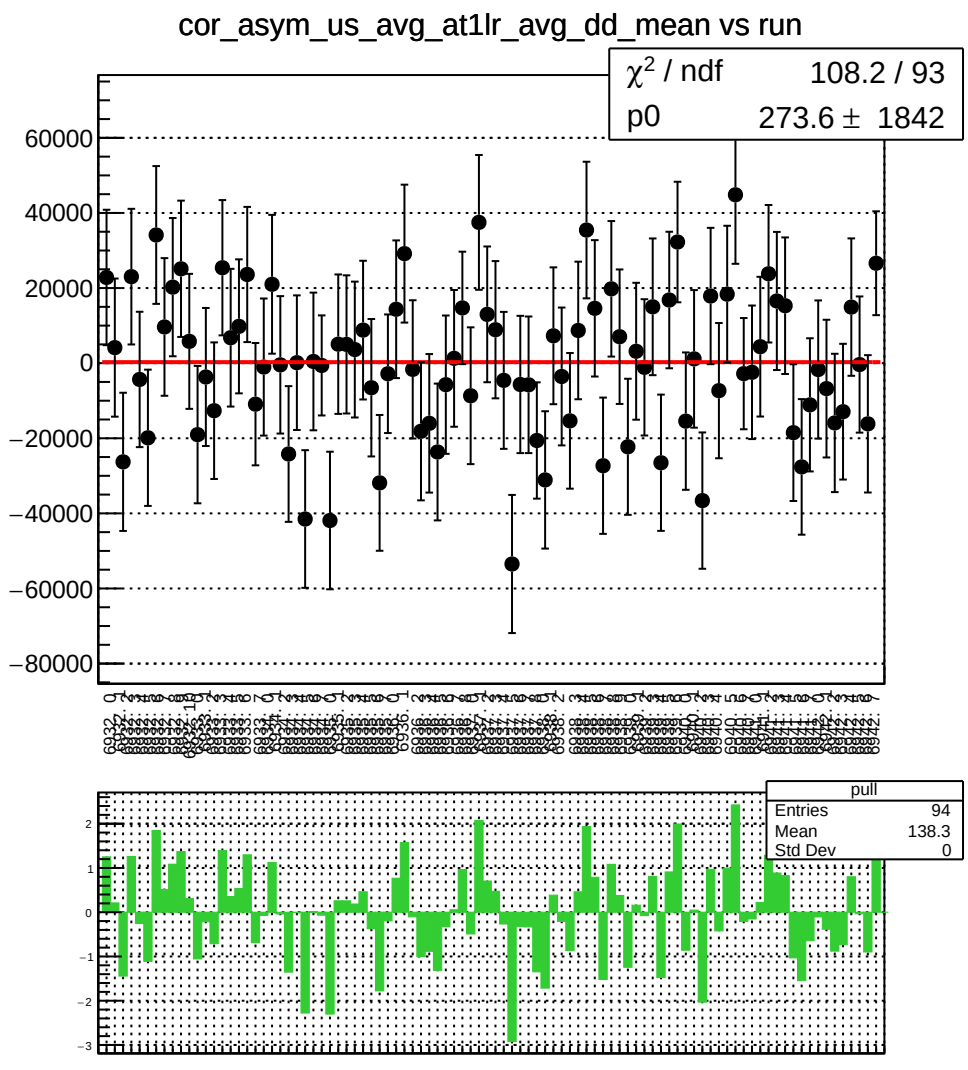

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ^2 / ndf 108.2 / 93
p0 273.8 ± 1842
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 138.4
Std Dev 0
2
1
0
−1
−2
−3

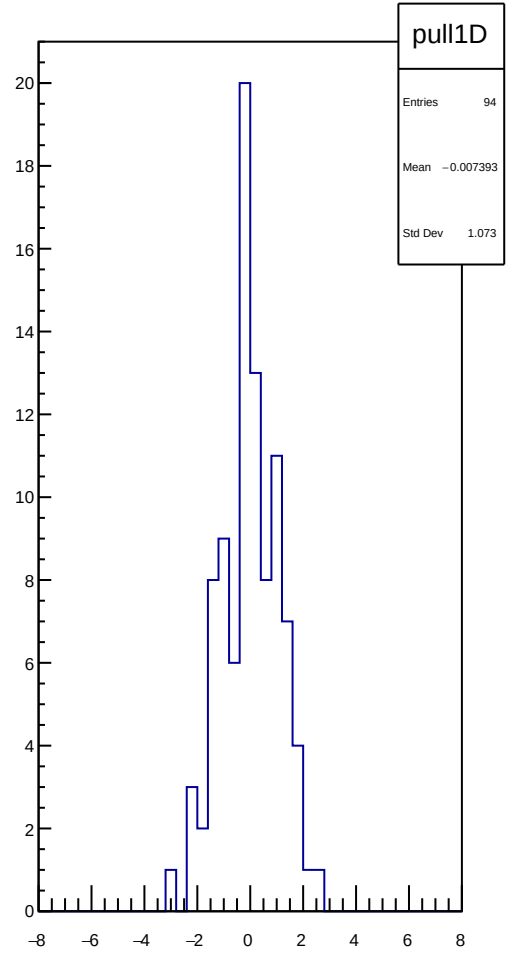

pull1D
Entries 94
Mean −0.007392
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

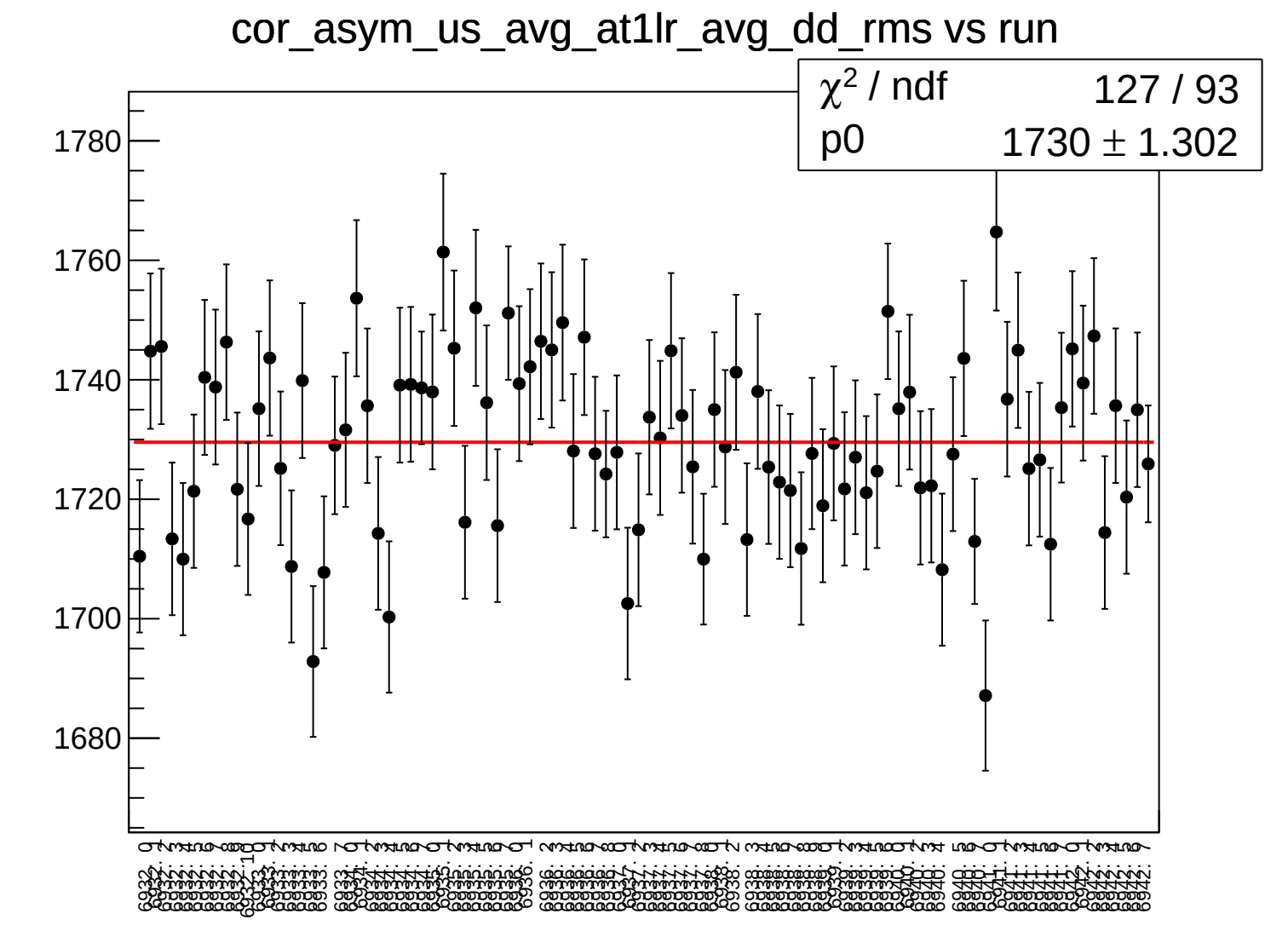

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127 / 93
p0 1730 ± 1.302
1780
1760
1740
1720
1700
1680

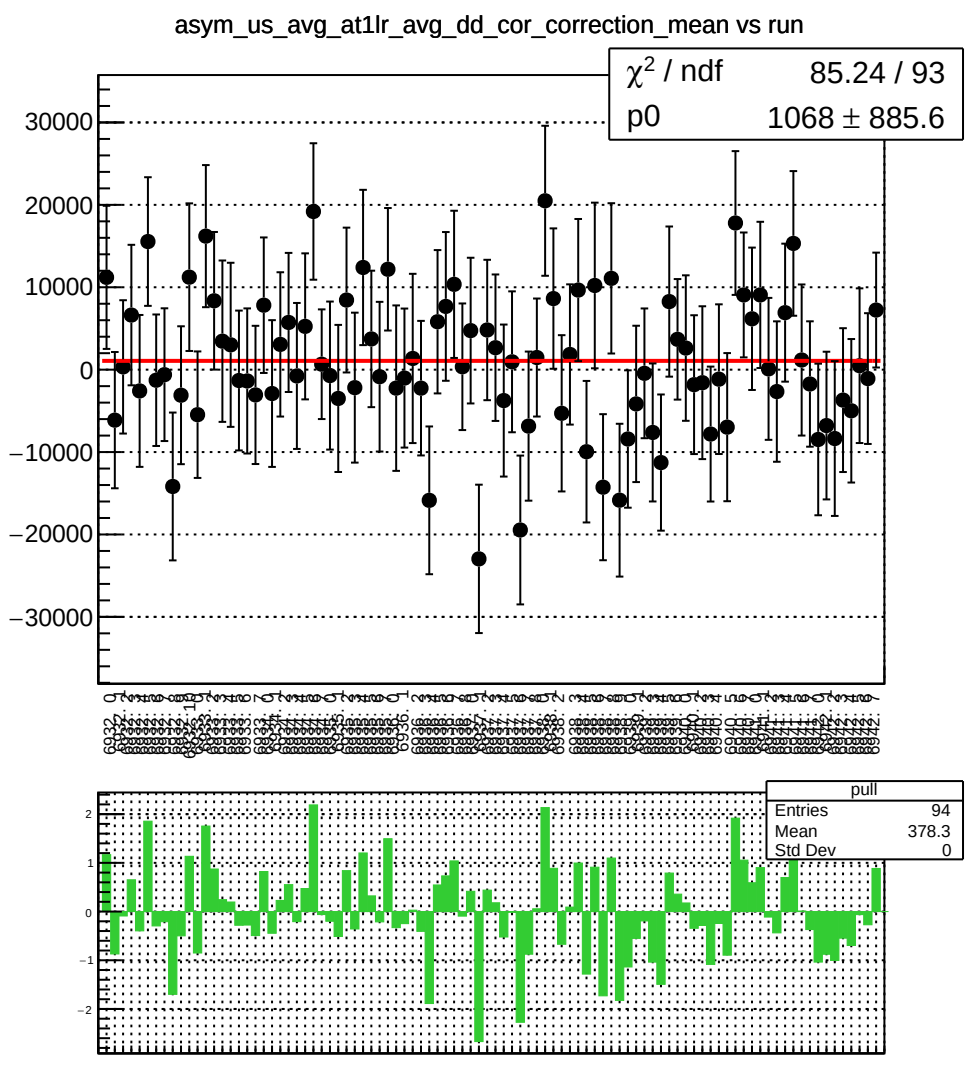

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 85.25 / 93
p0 1069 ± 885.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 378
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.009452
Std Dev 0.9523
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

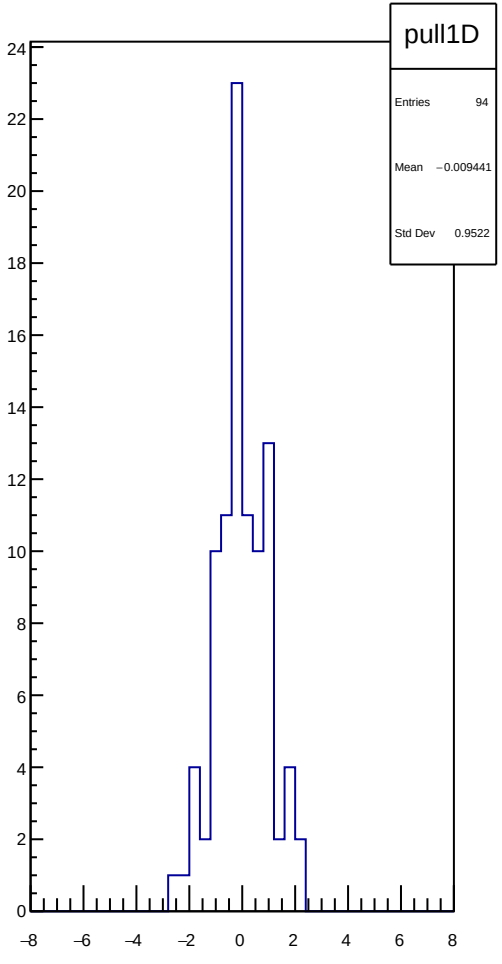

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5700 / 93
p0 830.3 ± 0.6262
1000
950
900
850
800
750
700

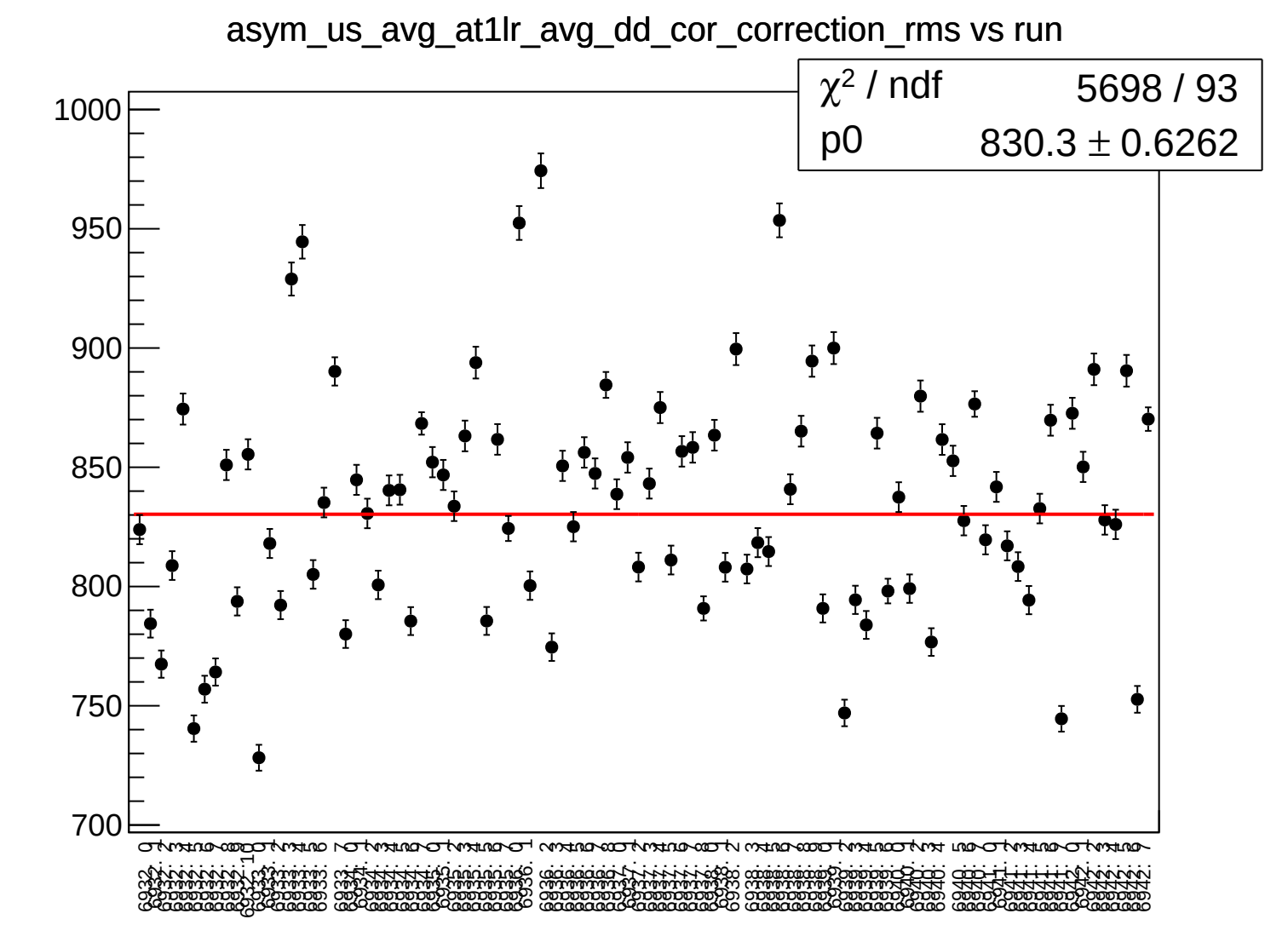

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.2 / 93
p0 273.6 ± 1842
pull
Entries 94
Mean 138.3
Std Dev 0

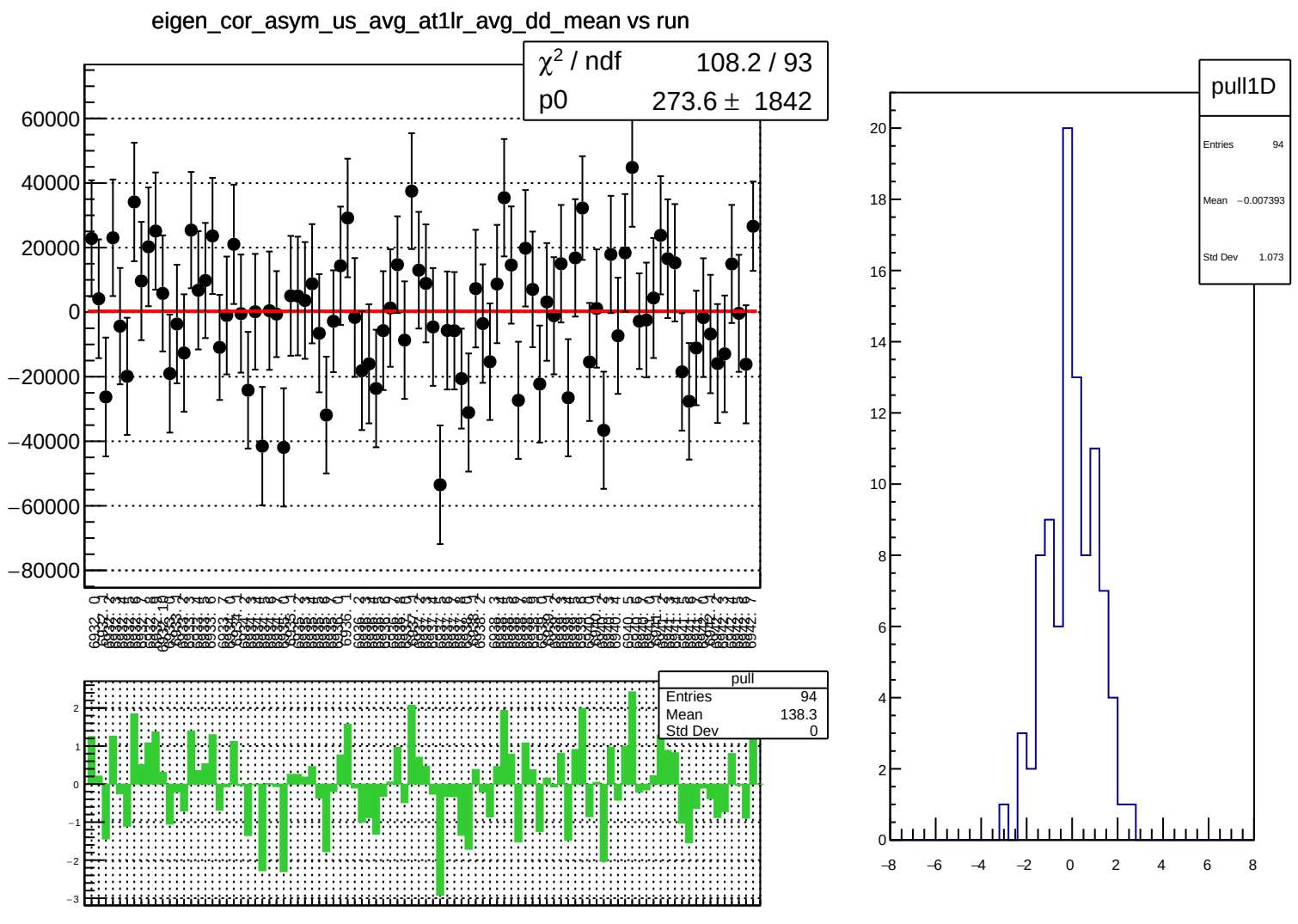

pull1D
Entries 94
Mean −0.007393
Std Dev 1.073

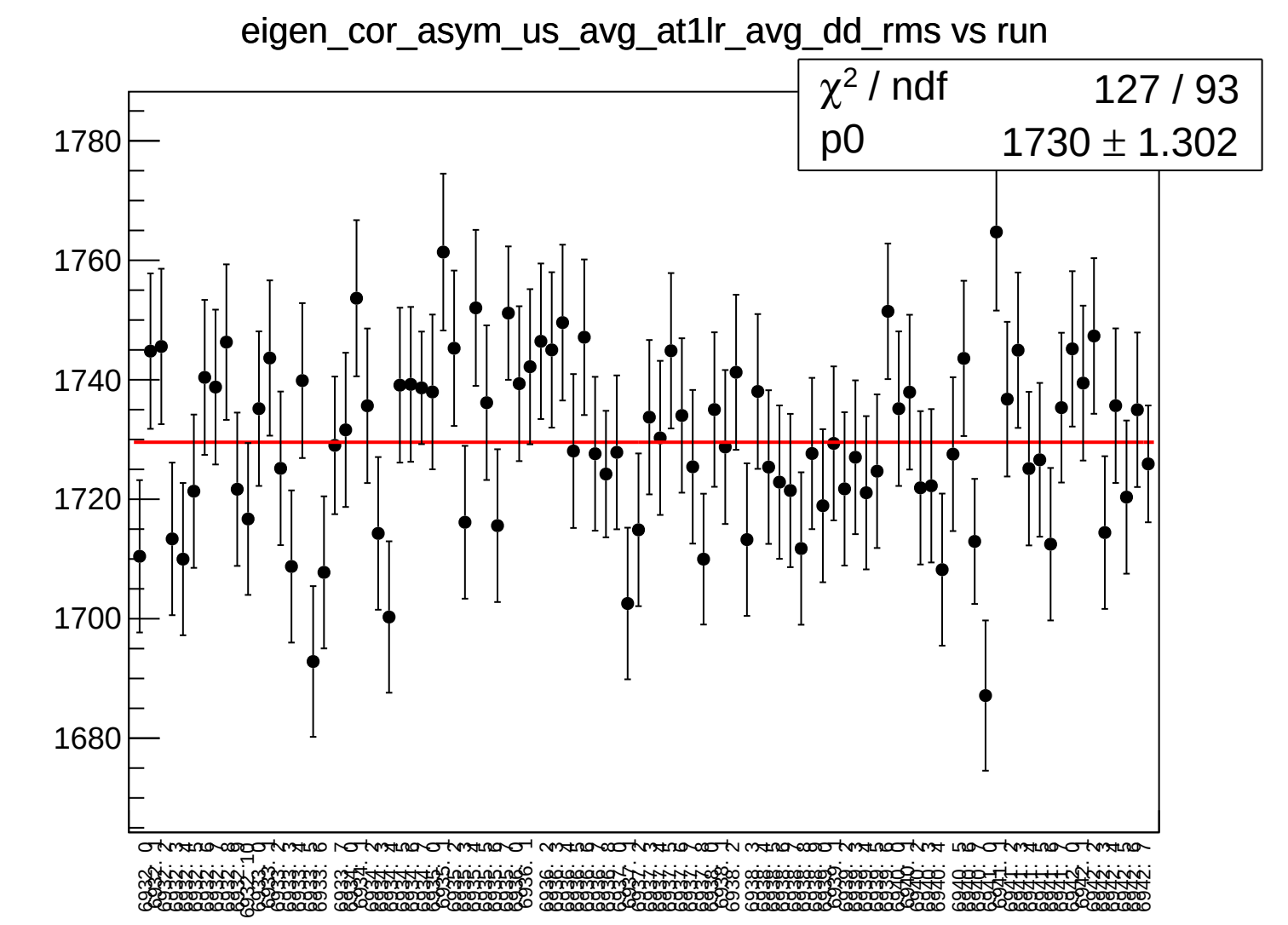

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 127 / 93
p0 1730 ± 1.302
1780
1760
1740
1720
1700
1680

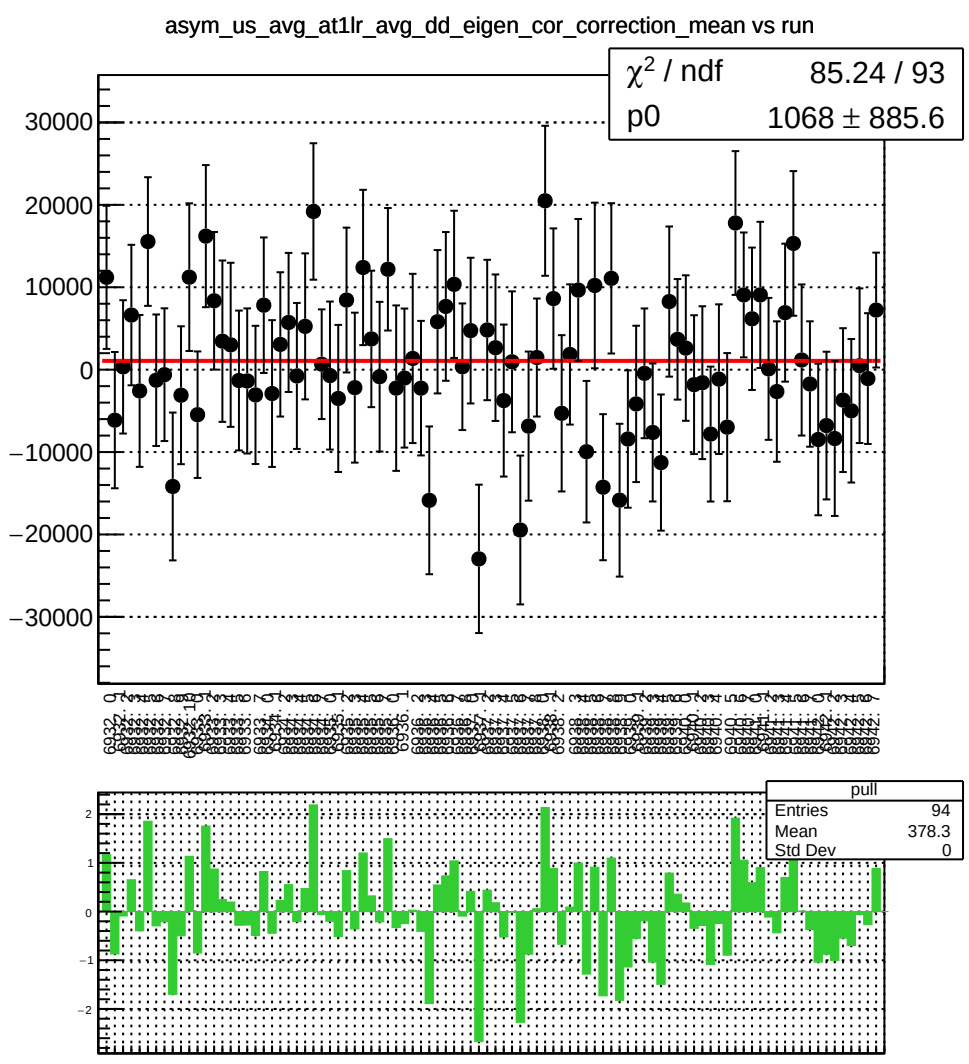

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 85.24 / 93
p0 1068 ± 885.6
pull
Entries 94
Mean 378.3
Std Dev 0

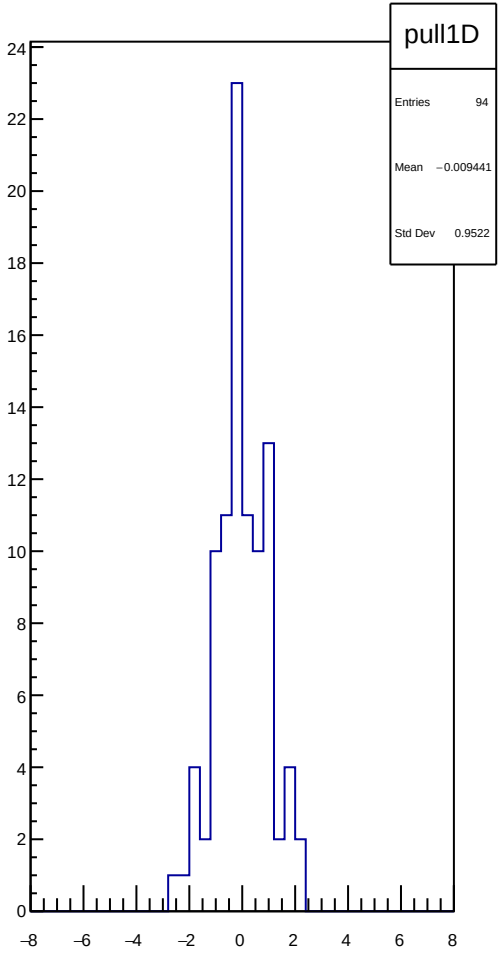

pull1D
Entries 94
Mean −0.009441
Std Dev 0.9522

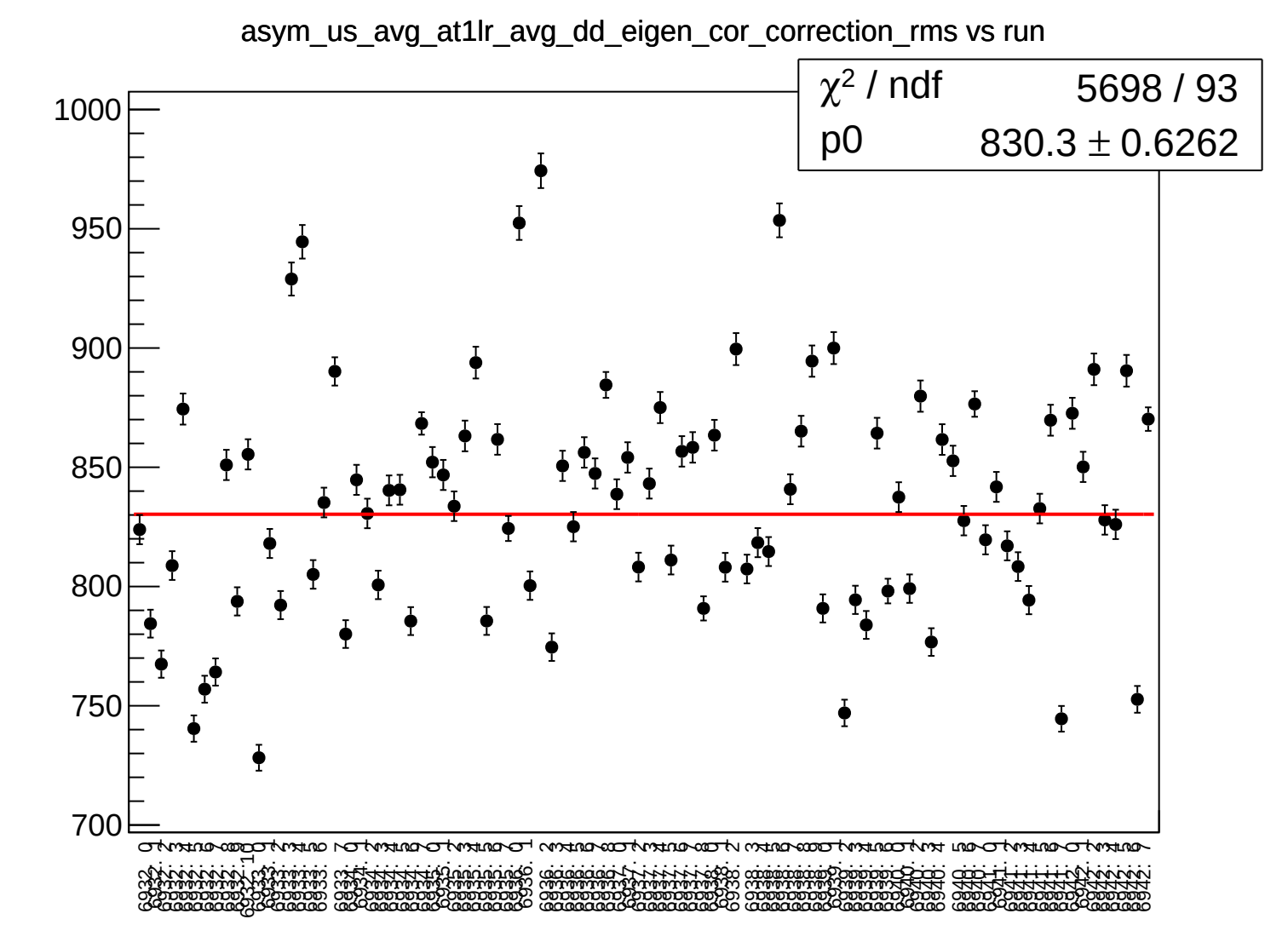

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5698 / 93
p0 830.3 ± 0.6262
1000
950
900
850
800
750
700

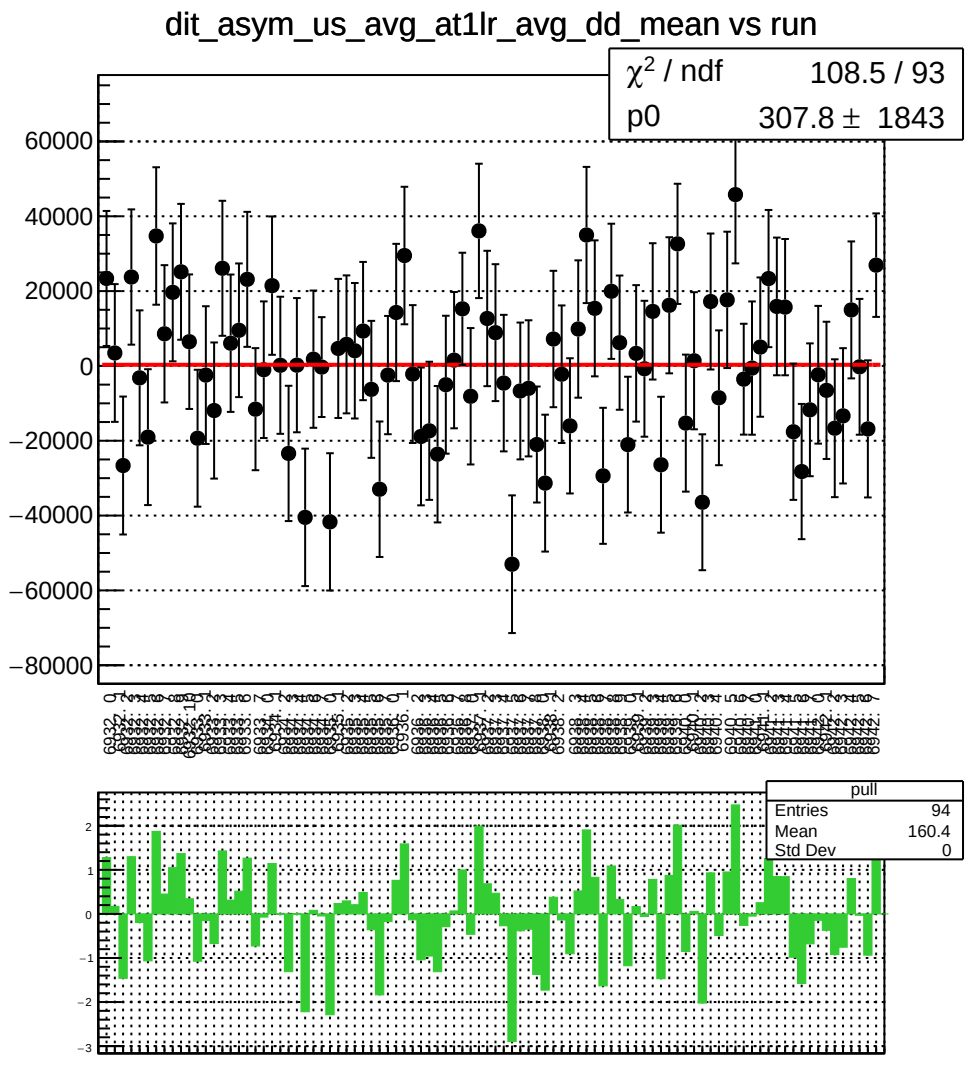

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.2 / 93
p0 273.6 ± 1842
pull
Entries 94
Mean 138.3
Std Dev 0
pull1D
Entries 94
Mean −0.007393
Std Dev 1.073

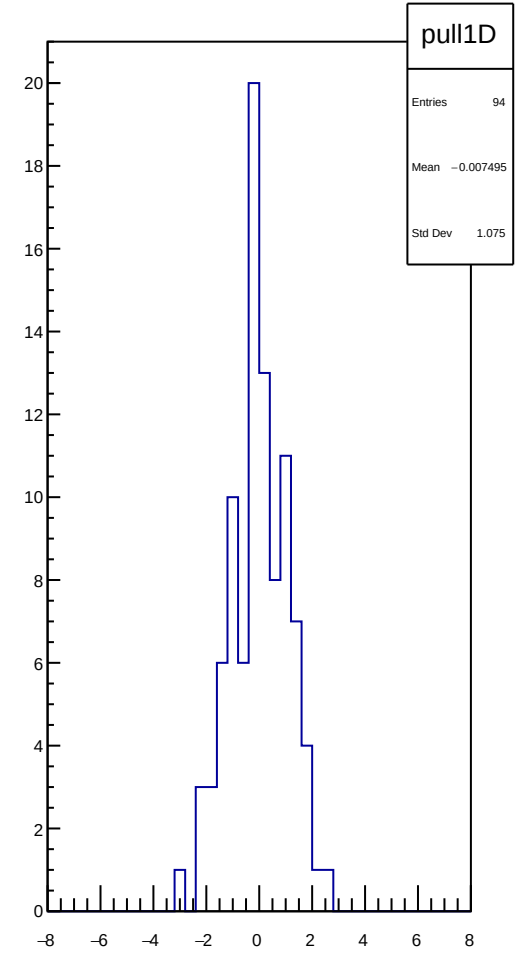

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127 / 93
p0 1730 ± 1.302
1780
1760
1740
1720
1700
1680

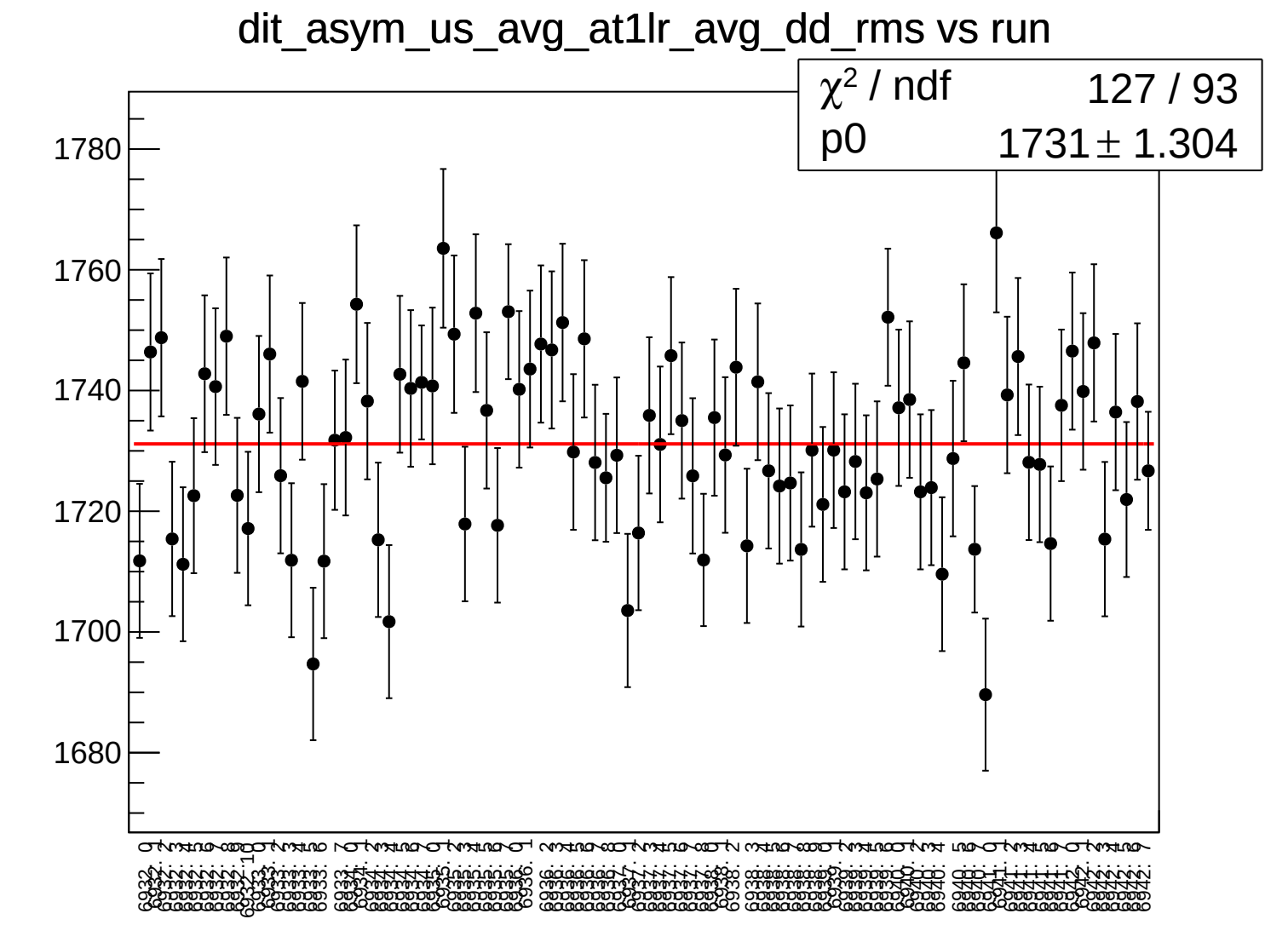

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.24 / 93
p0 1068 ± 885.6
pull
Entries 94
Mean 378.3
Std Dev 0

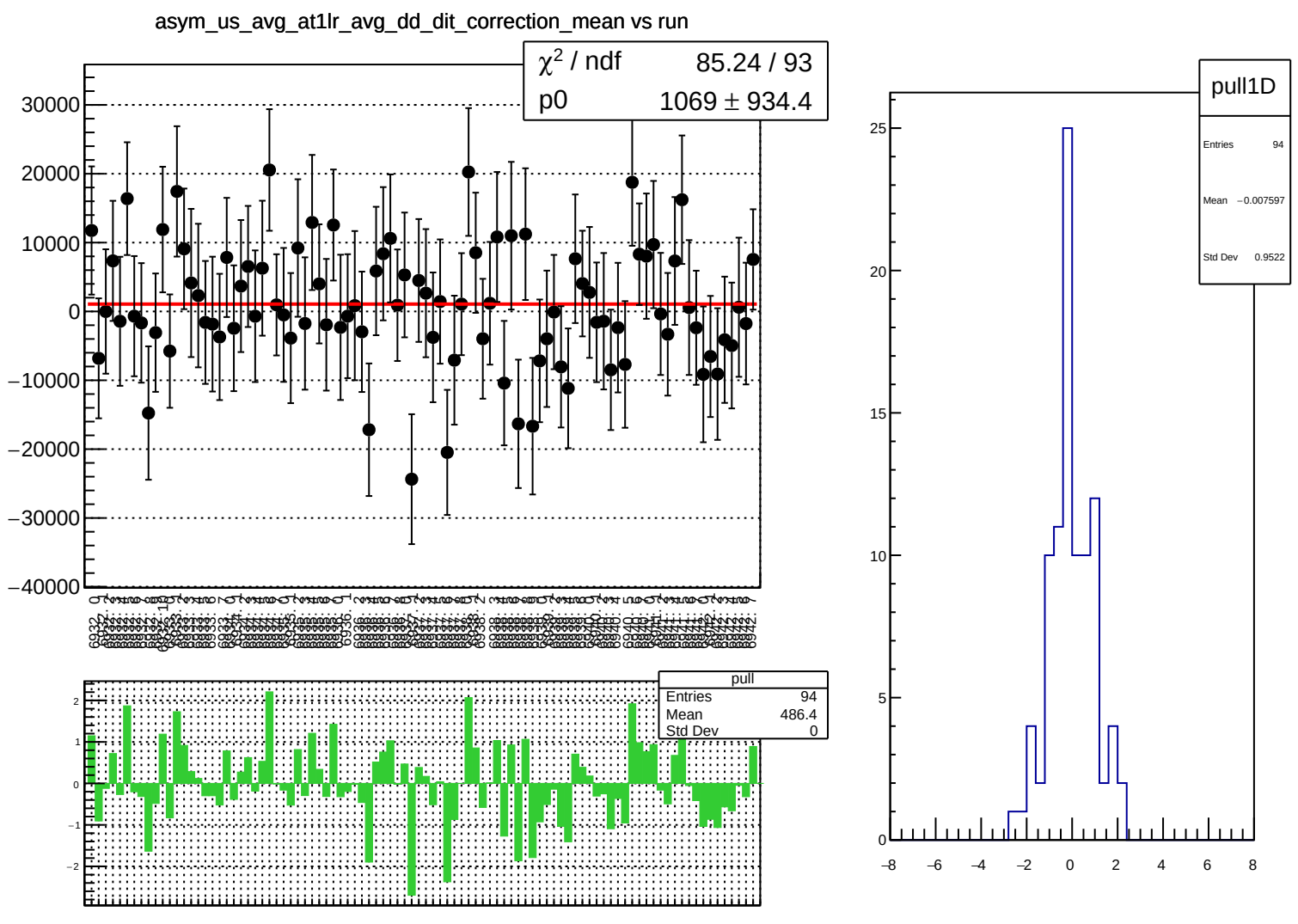

pull1D
Entries 94
Mean −0.009441
Std Dev 0.9522

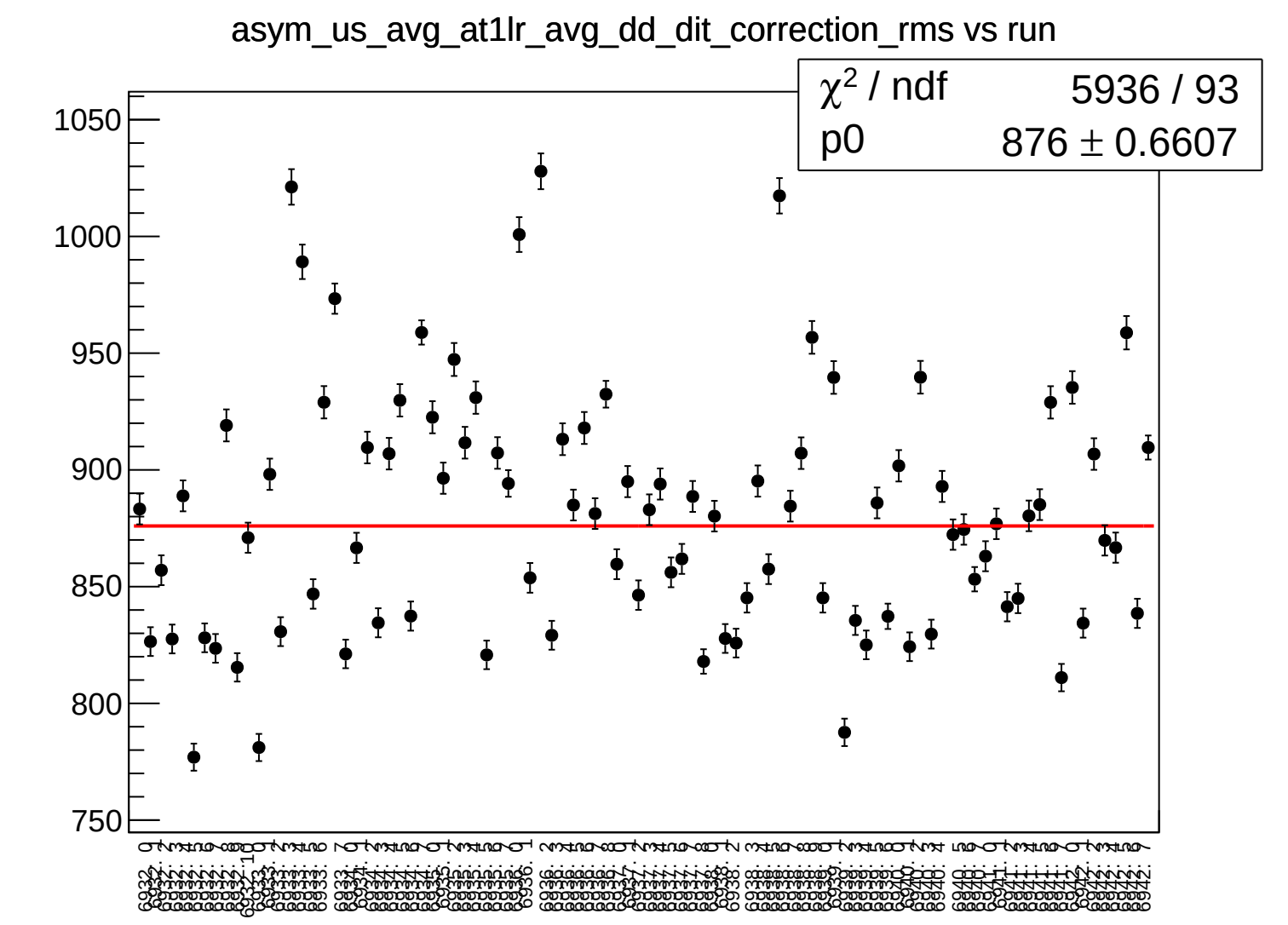

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5698 / 93
p0 830.3 ± 0.6262
1000
950
900
850
800
750
700

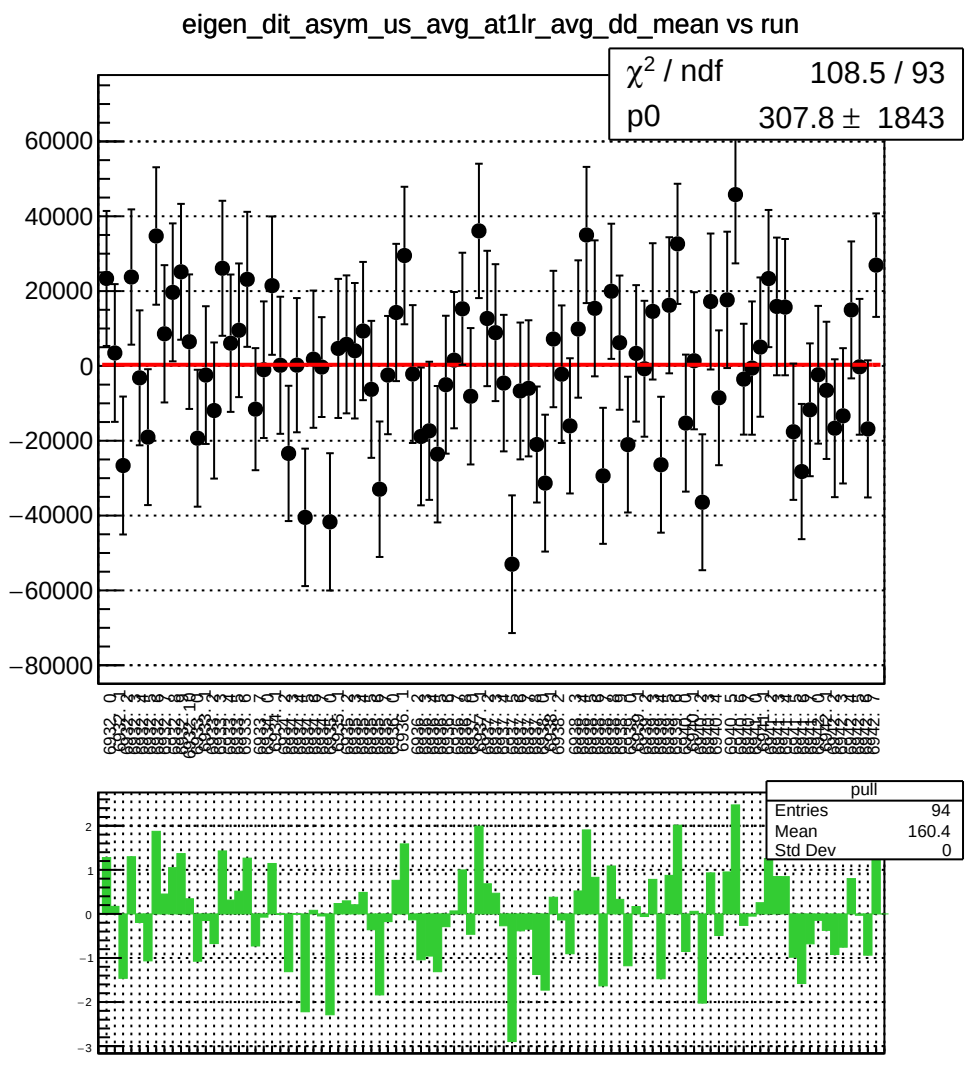

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.5 / 93
p0 307.8 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 160.4
Std Dev 0
2
1
0
−1
−2
−3

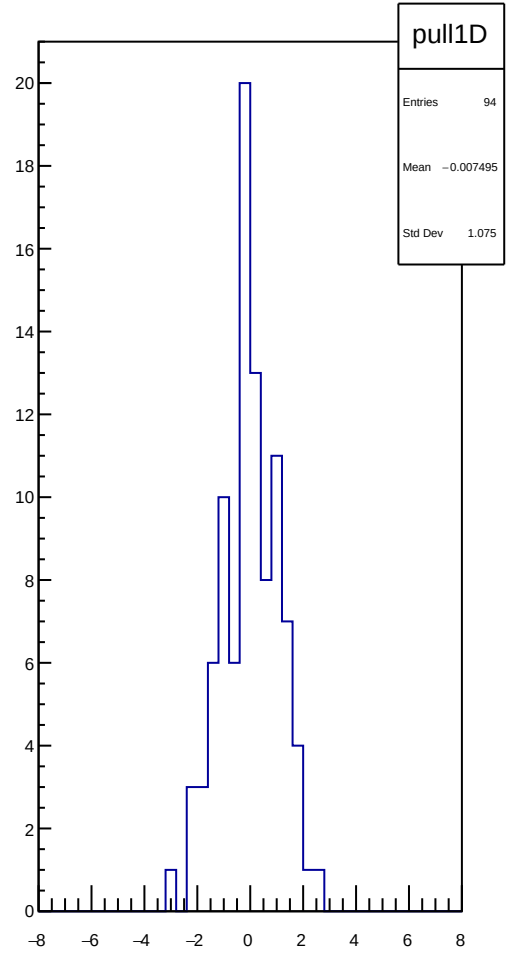

pull1D
Entries 94
Mean −0.007495
Std Dev 1.075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

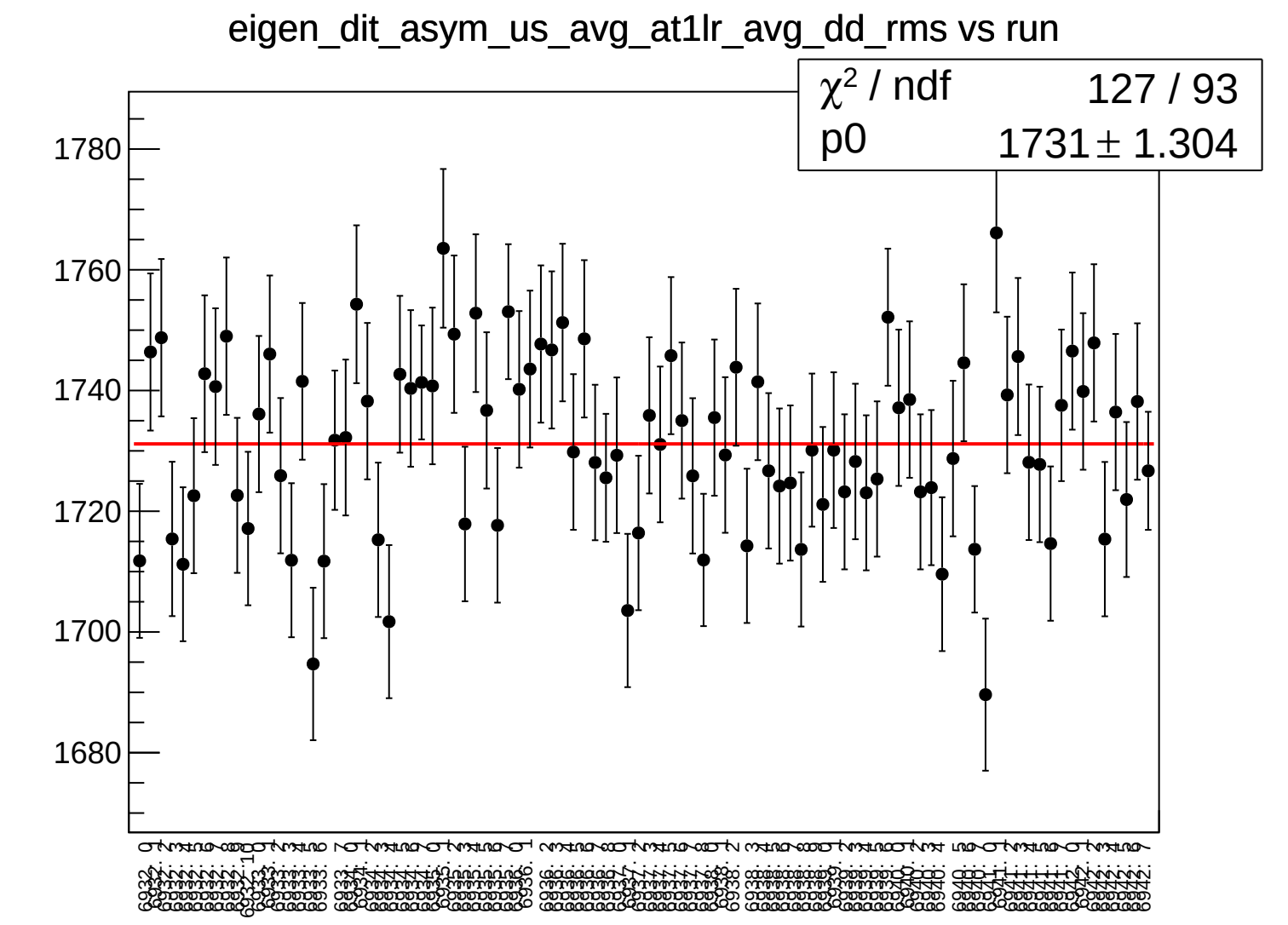

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127 / 93
p0 1731 ± 1.304
1780
1760
1740
1720
1700
1680

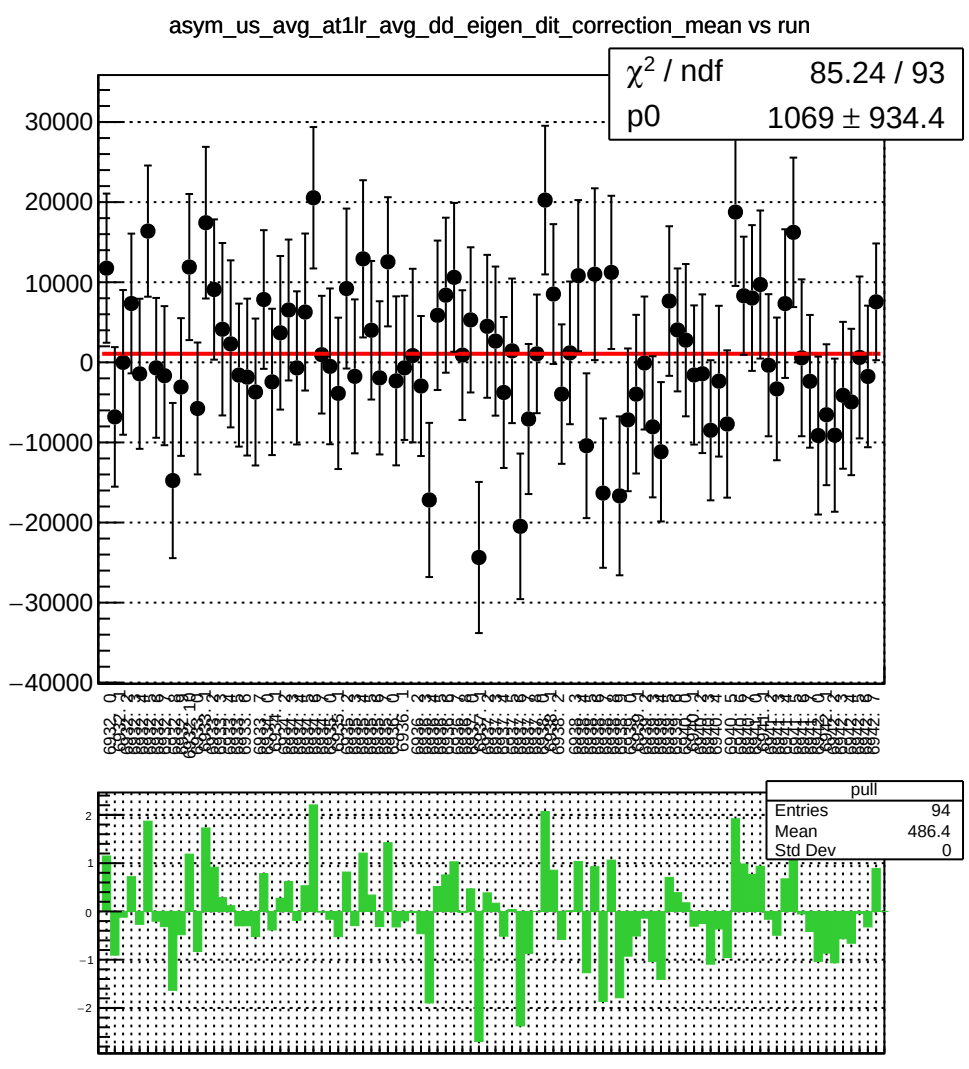

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 85.24 / 93
p0 1069 ± 934.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 486.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007597
Std Dev 0.9522
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

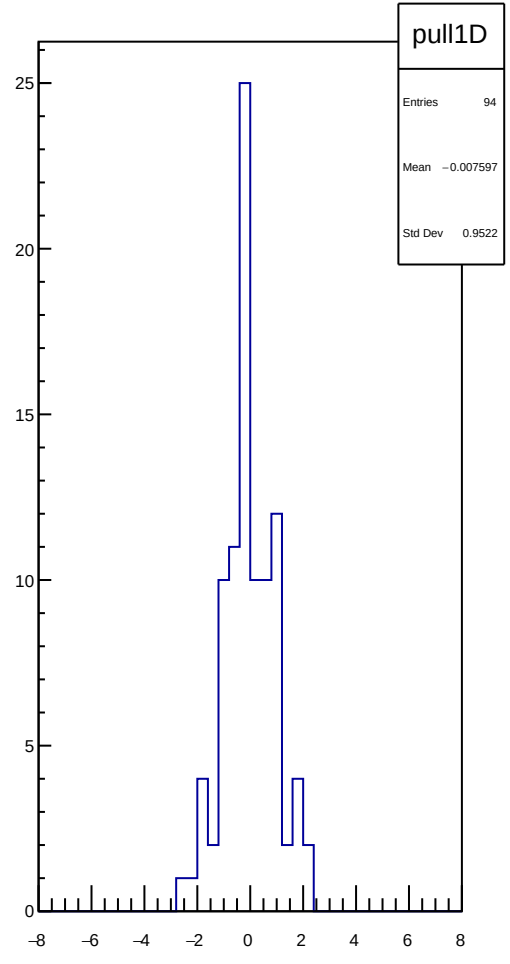

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 5936 / 93
p0 876 ± 0.6607
1050
1000
950
900
850
800
750

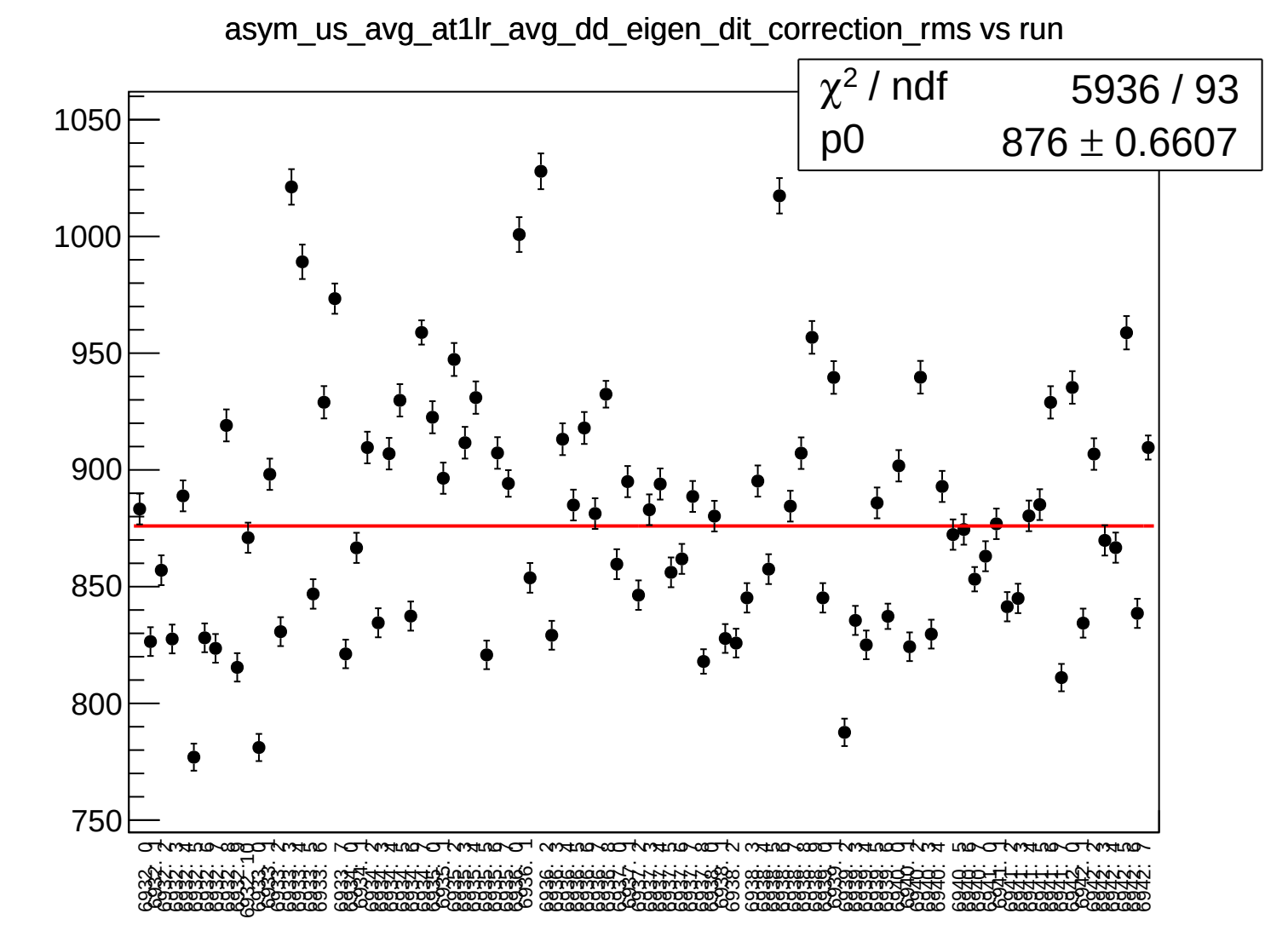

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.5 / 93
p0 307.8 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 160.4
Std Dev 0
2
1
0
−1
−2
−3

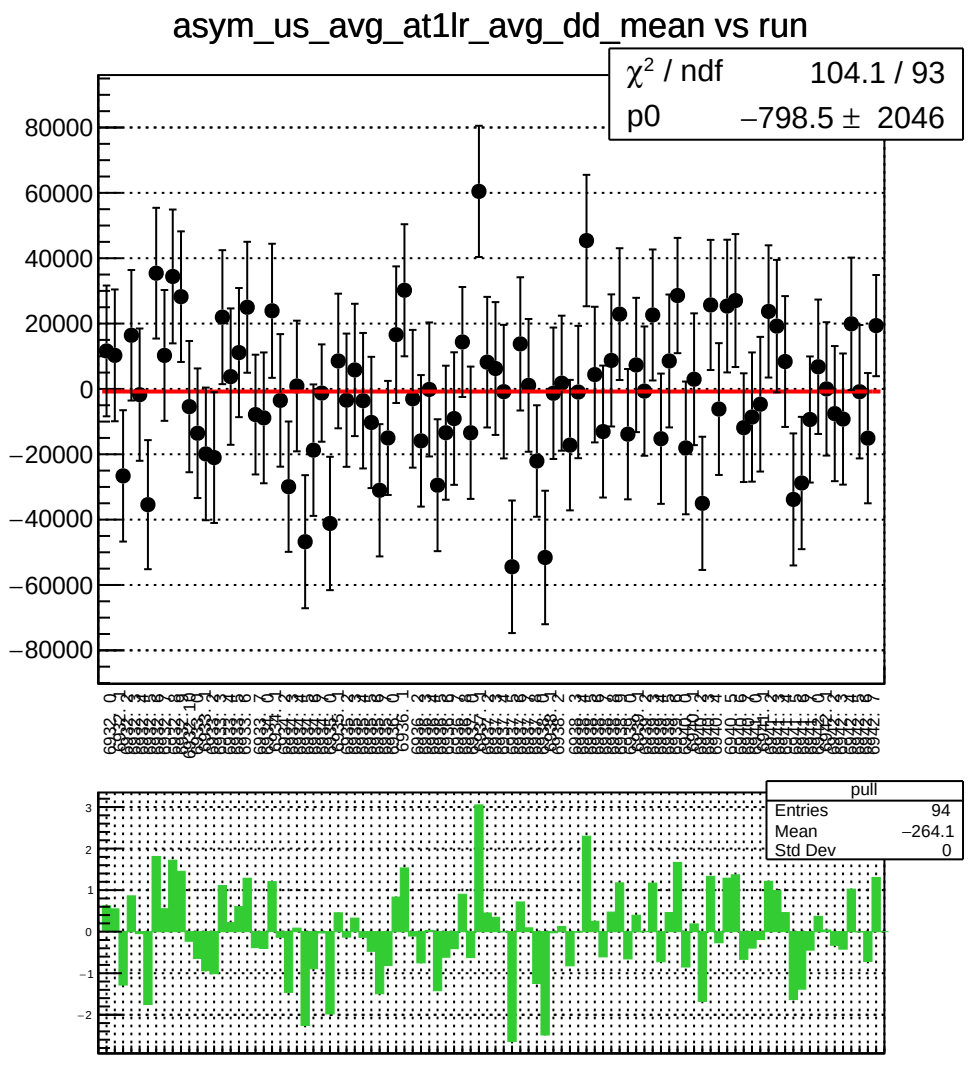

pull1D
Entries 94
Mean −0.007495
Std Dev 1.075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

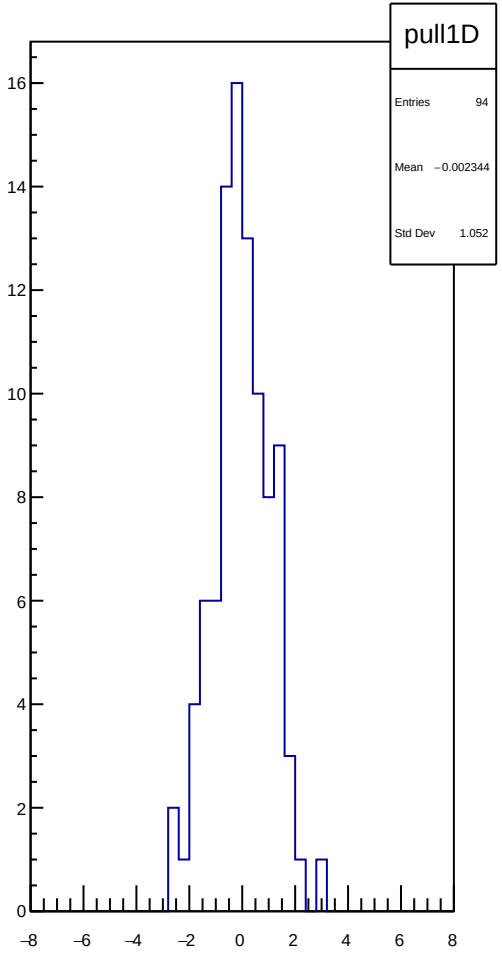

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 127 / 93
p0 1731 ± 1.304
1780
1760
1740
1720
1700
1680

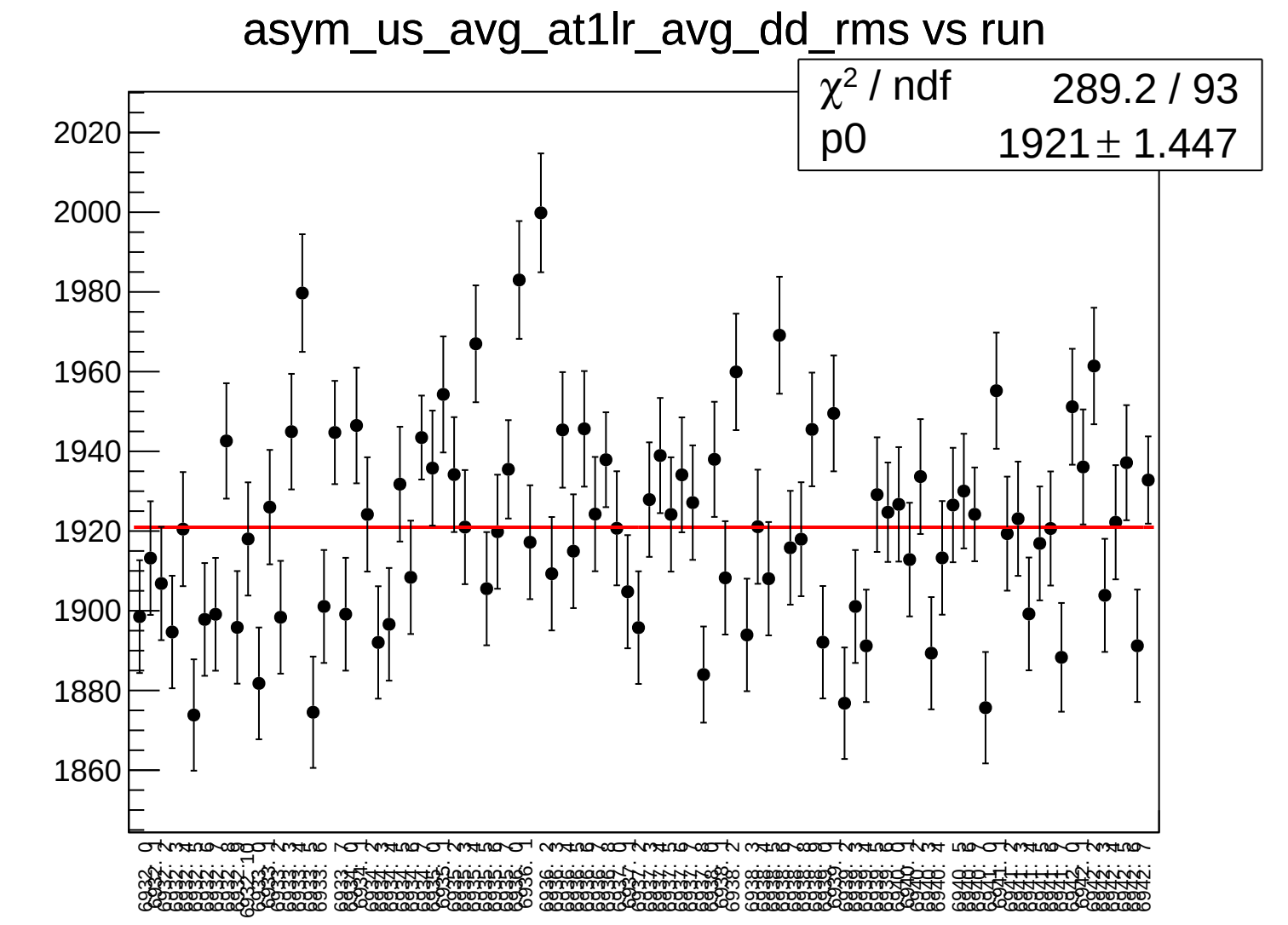

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.24 / 93
p0 1069 ± 934.4
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 486.4
Std Dev 0
2
1
0
−1
−2

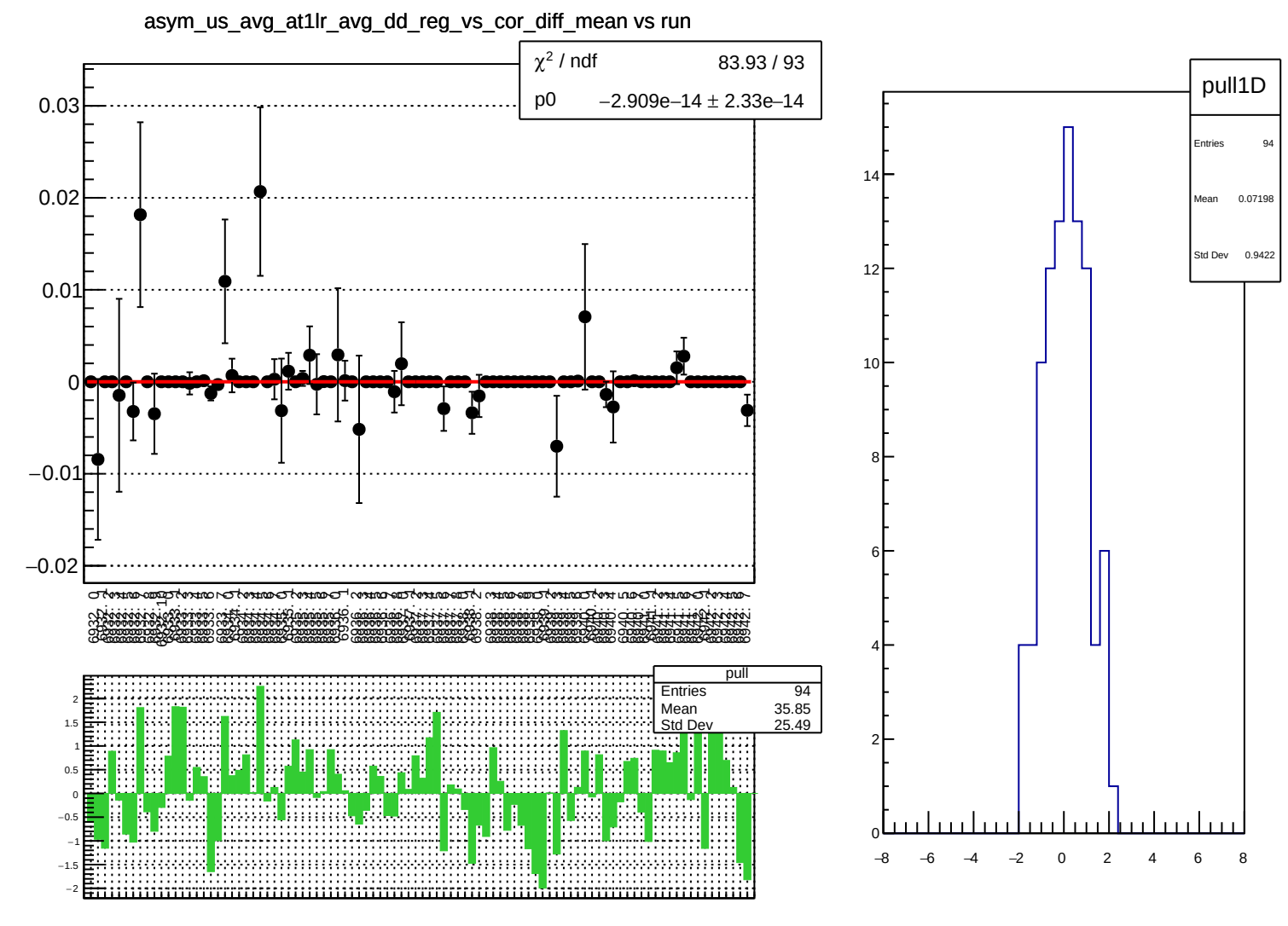

pull1D
Entries 94
Mean −0.007597
Std Dev 0.9522
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

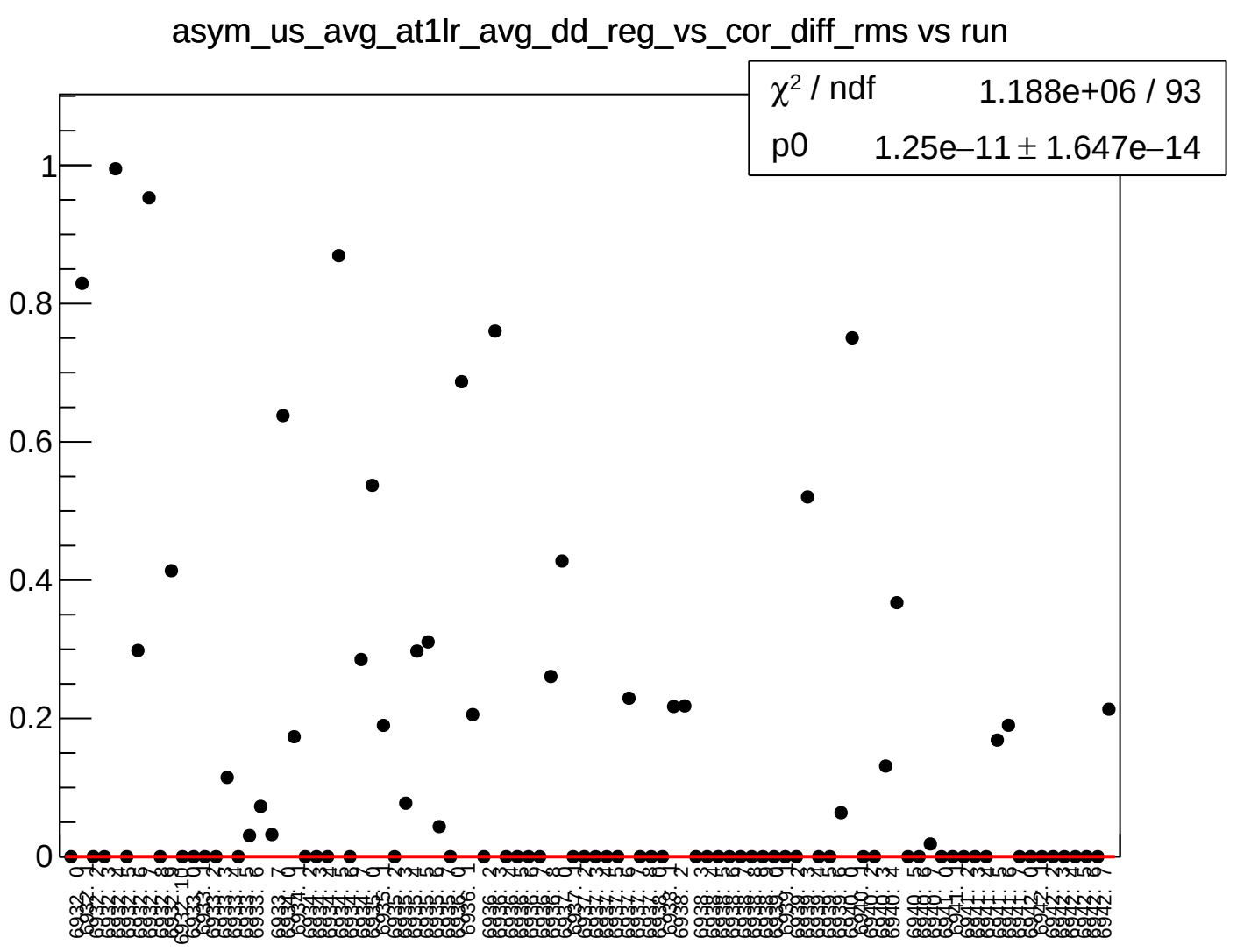

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5936 / 93
p0 876 ± 0.6607
1050
1000
950
900
850
800
750

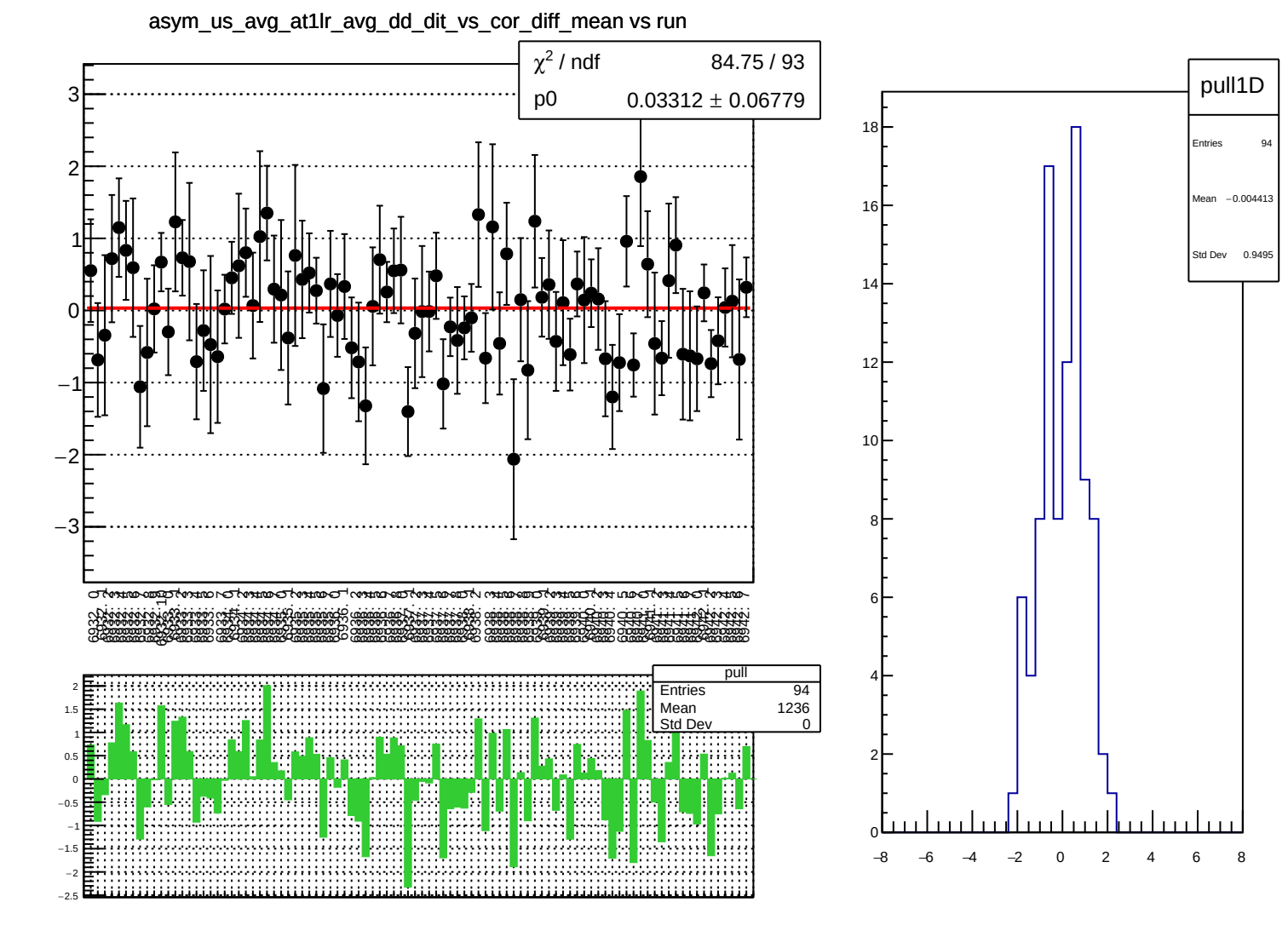

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 104.1 / 93
p0 −798.5 ± 2046
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −264.1
Std Dev 0
3
2
1
0
−1
−2

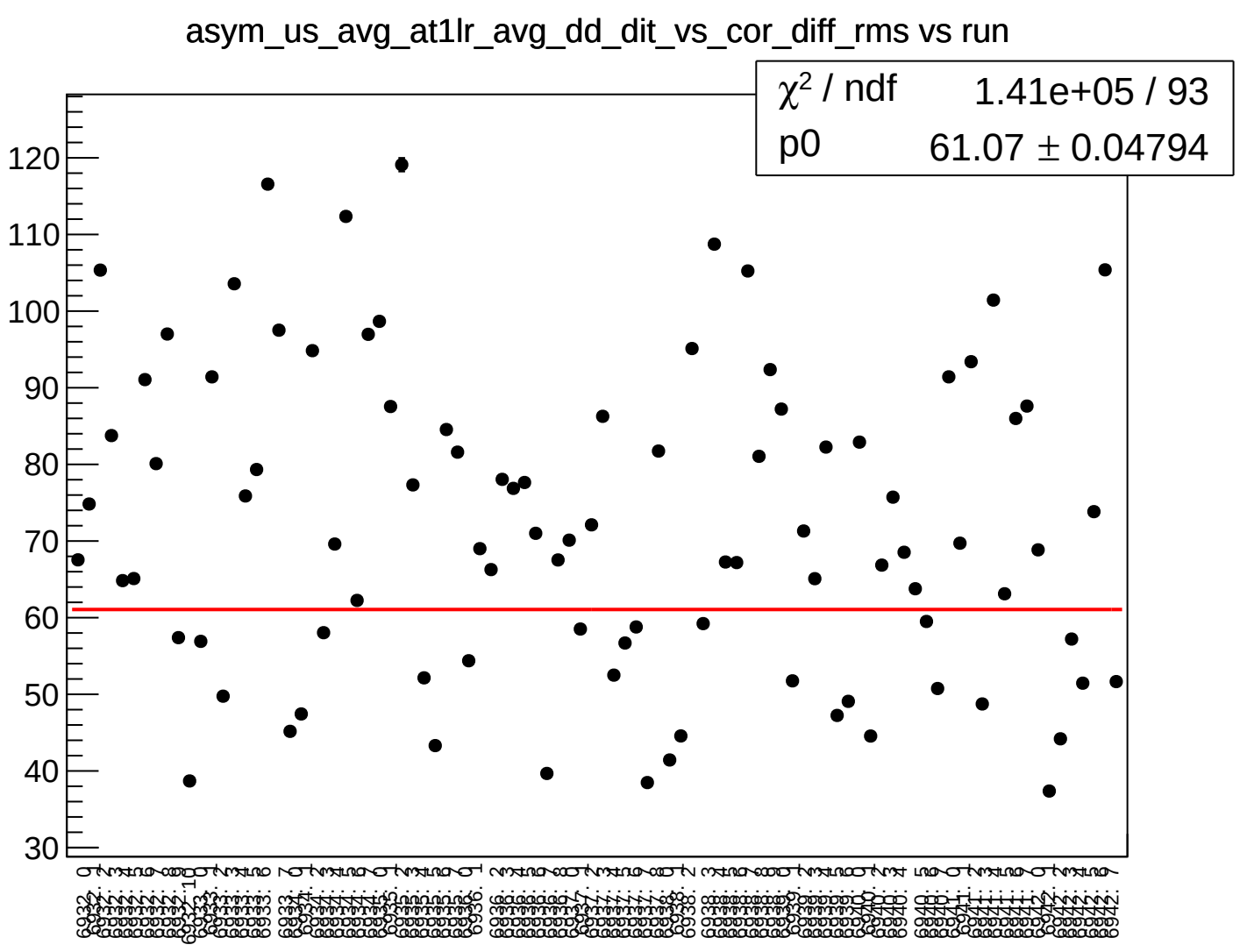

pull1D
Entries 94
Mean −0.002344
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

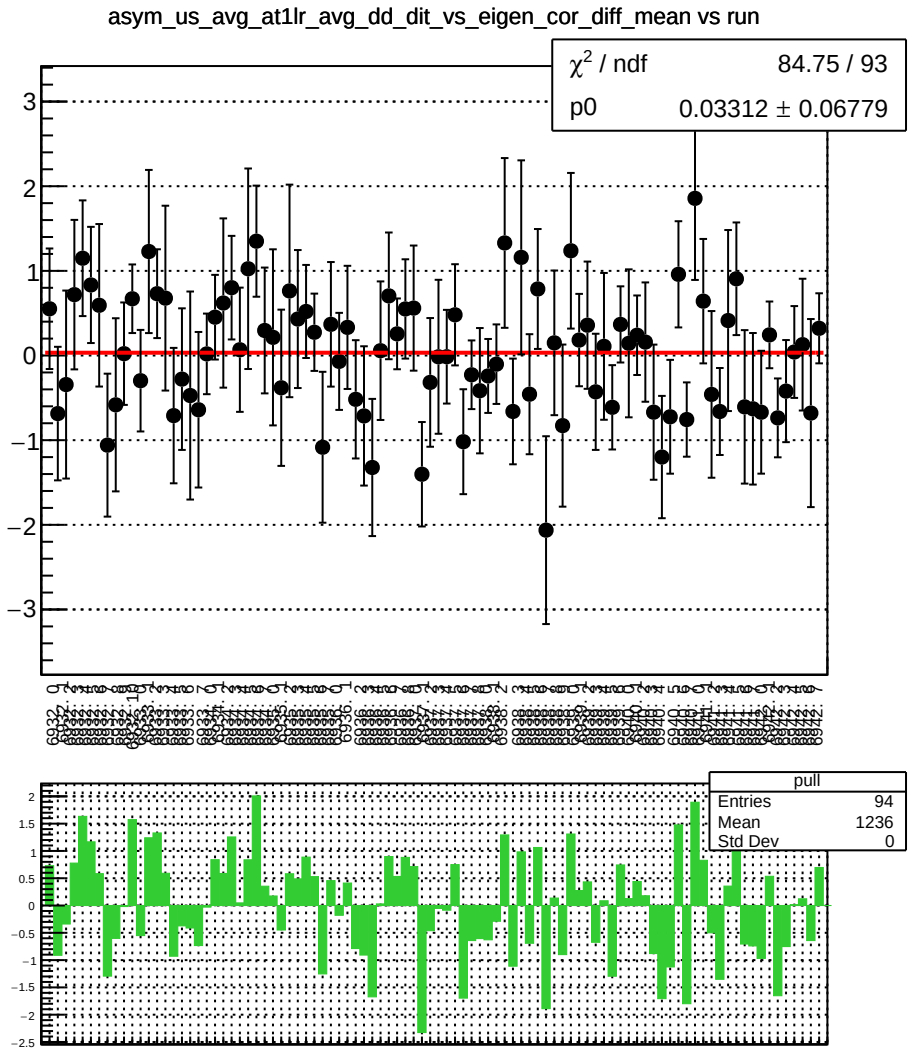

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 289.2 / 93
p0 1921 ± 1.447
2020
2000
1980
1960
1940
1920
1900
1880
1860

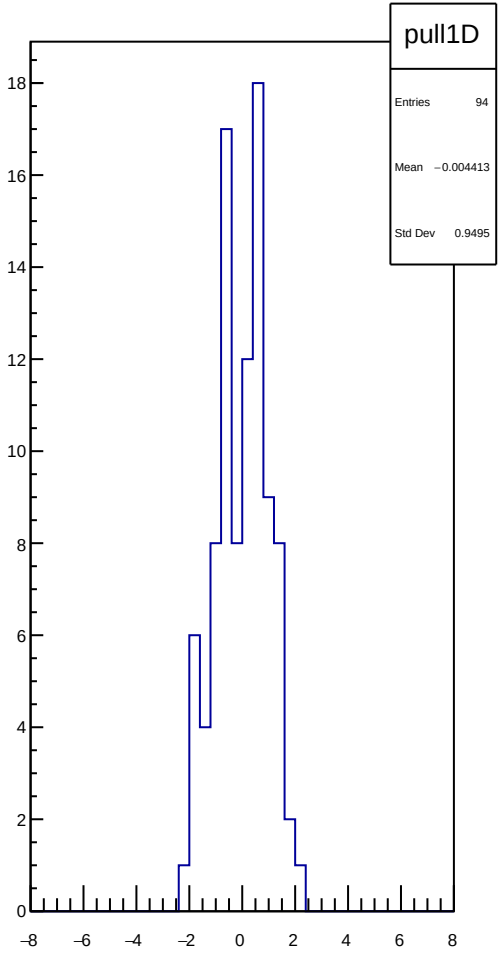

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 93
p0 −2.909e−14 ± 2.33e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 35.85
Std Dev 25.49
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.07198
Std Dev 0.9422
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

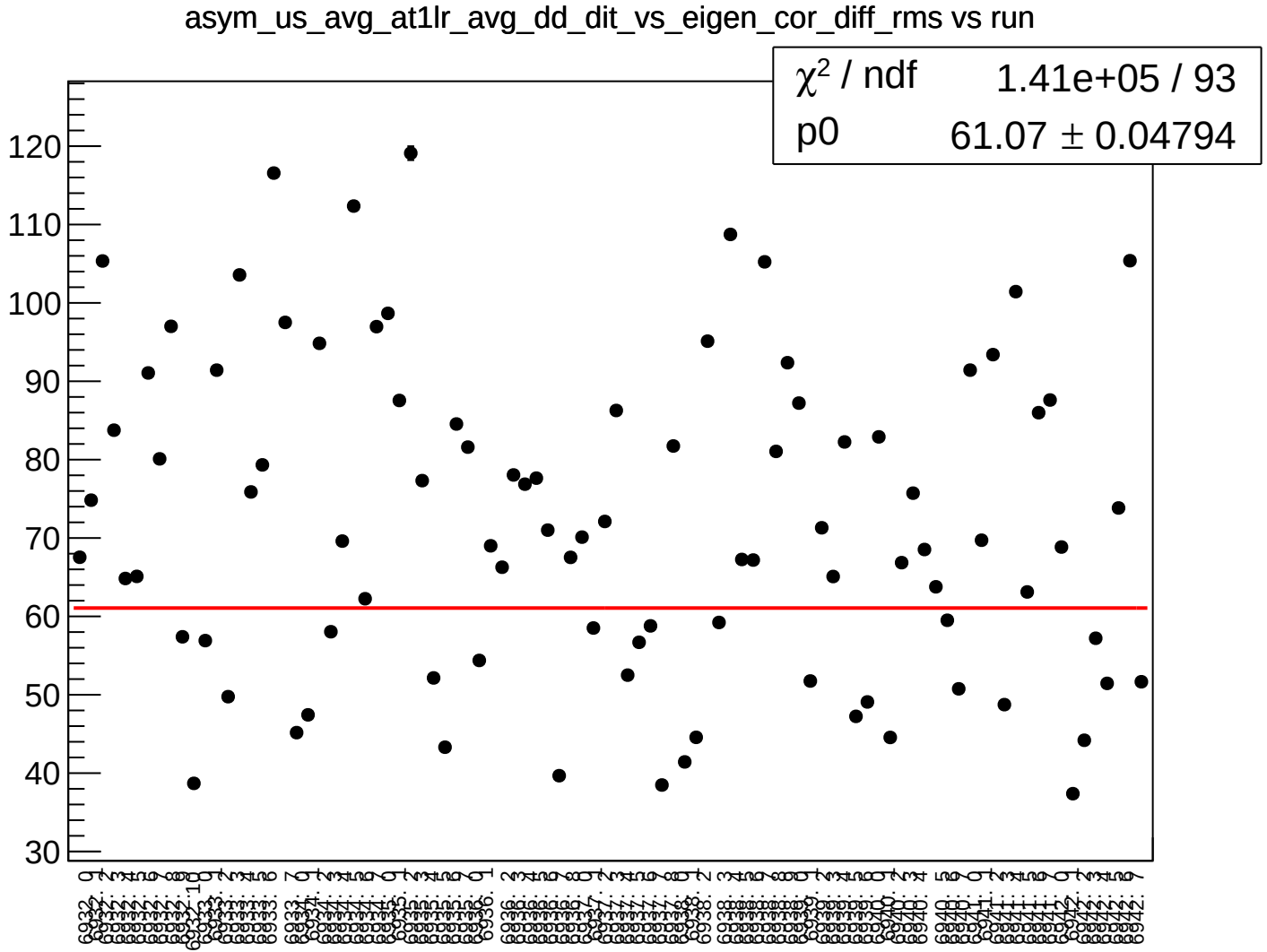

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.188e+06 / 93
p0 1.25e−11 ± 1.647e−14
1
0.8
0.6
0.4
0.2
0

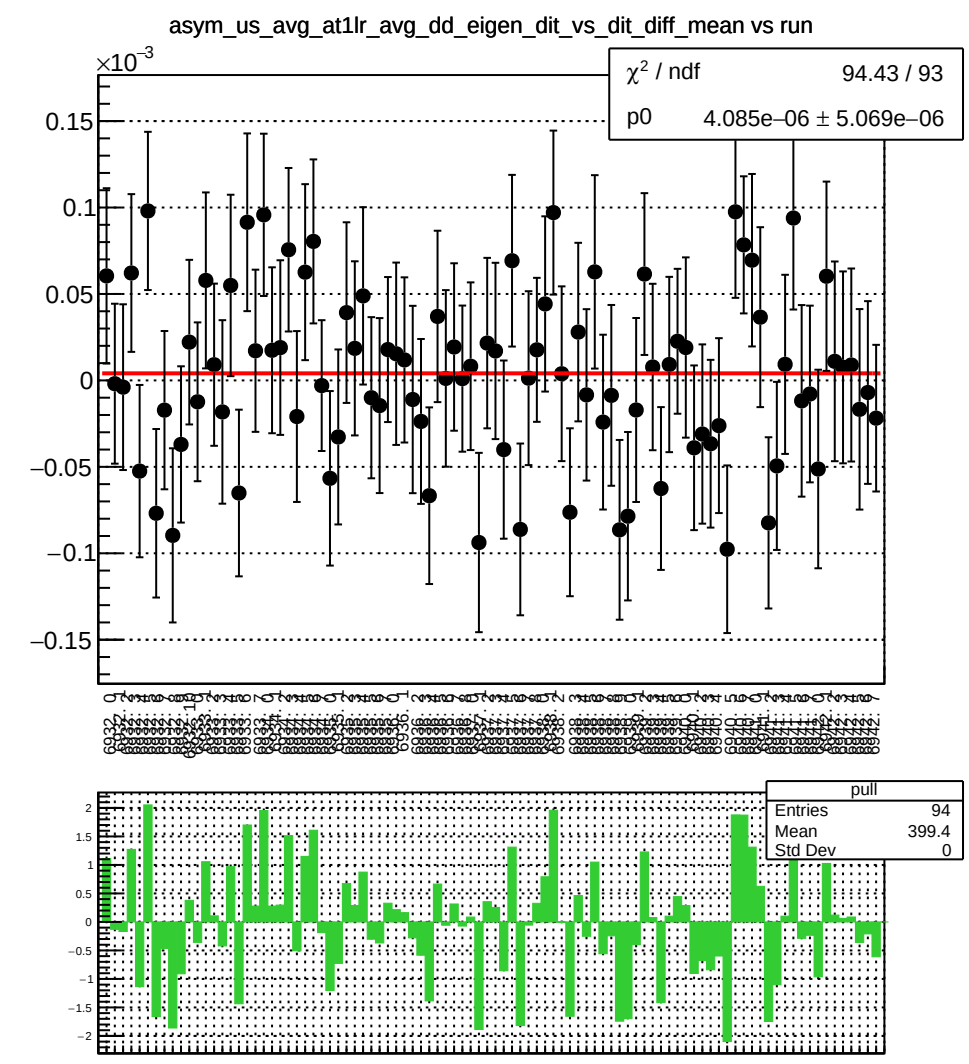

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 93
p0 0.03312 ± 0.06779
pull
Entries 94
Mean 1236
Std Dev 0
pull1D
Entries 94
Mean −0.004413
Std Dev 0.9495

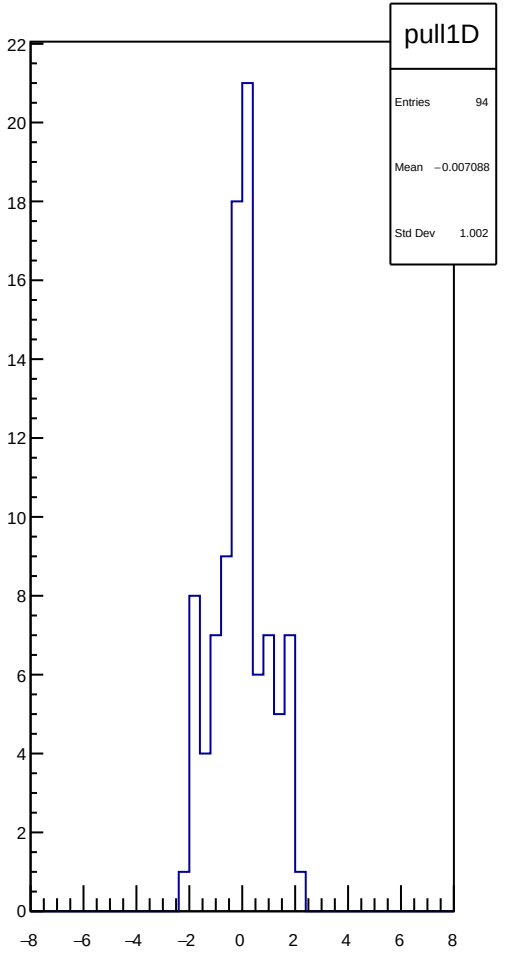

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.41e+05 / 93
p0 61.07 ± 0.04794
120
110
100
90
80
70
60
50
40
30

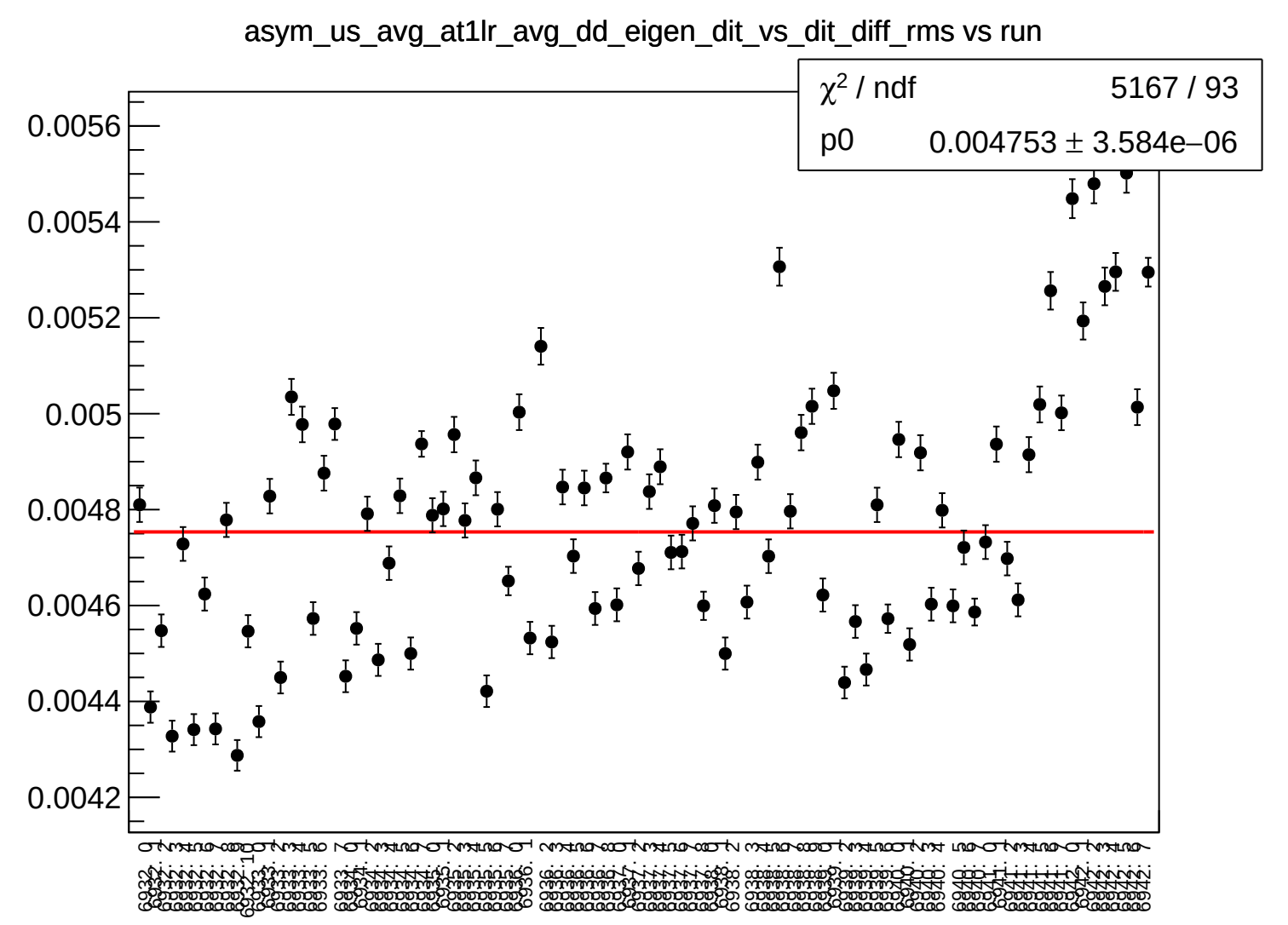

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.75 / 93
p0 0.03312 ± 0.06779
pull
Entries 94
Mean 1236
Std Dev 0

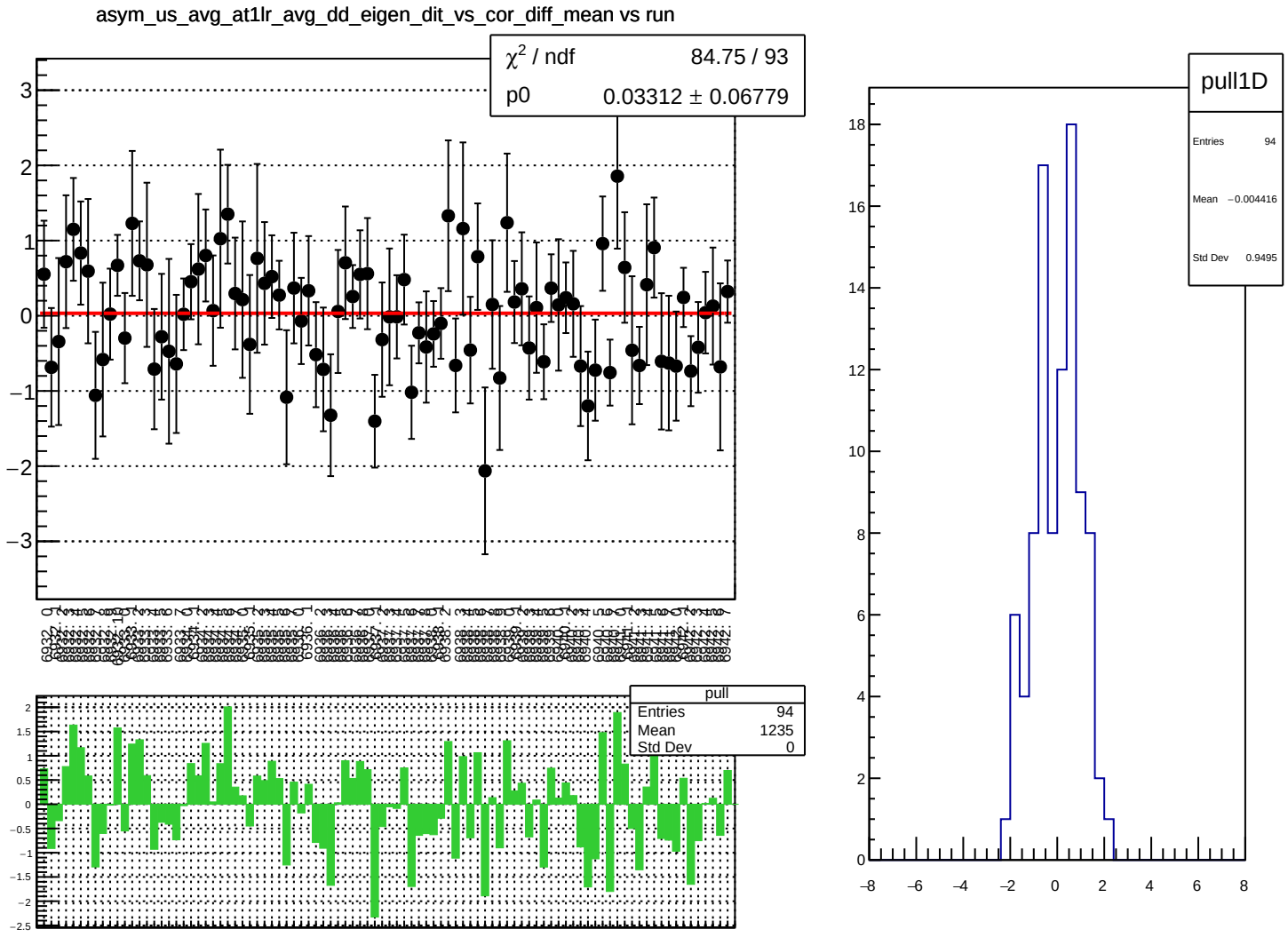

pull1D
Entries 94
Mean −0.004413
Std Dev 0.9495

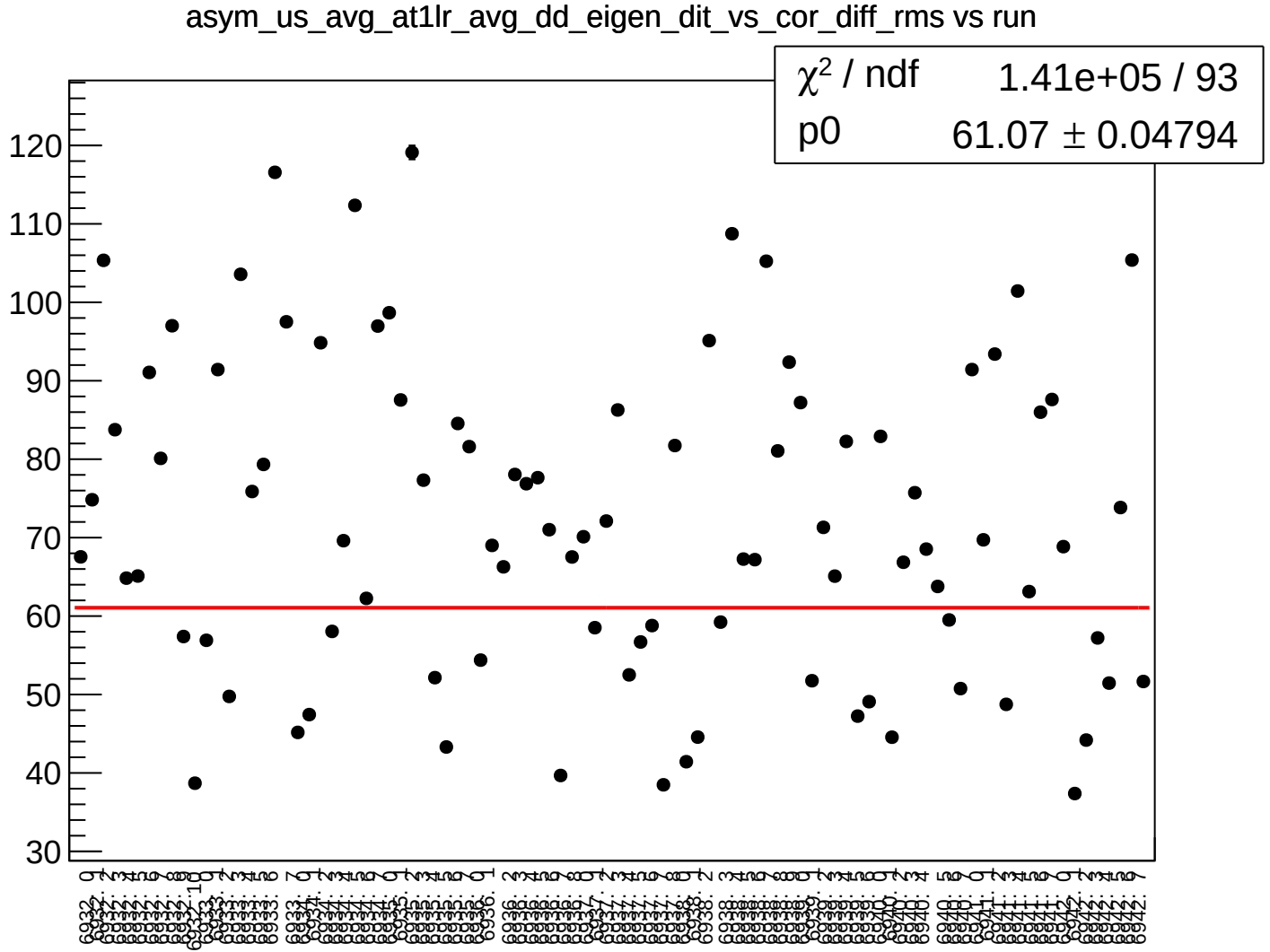

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.41e+05 / 93
p0 61.07 ± 0.04794
120
110
100
90
80
70
60
50
40
30

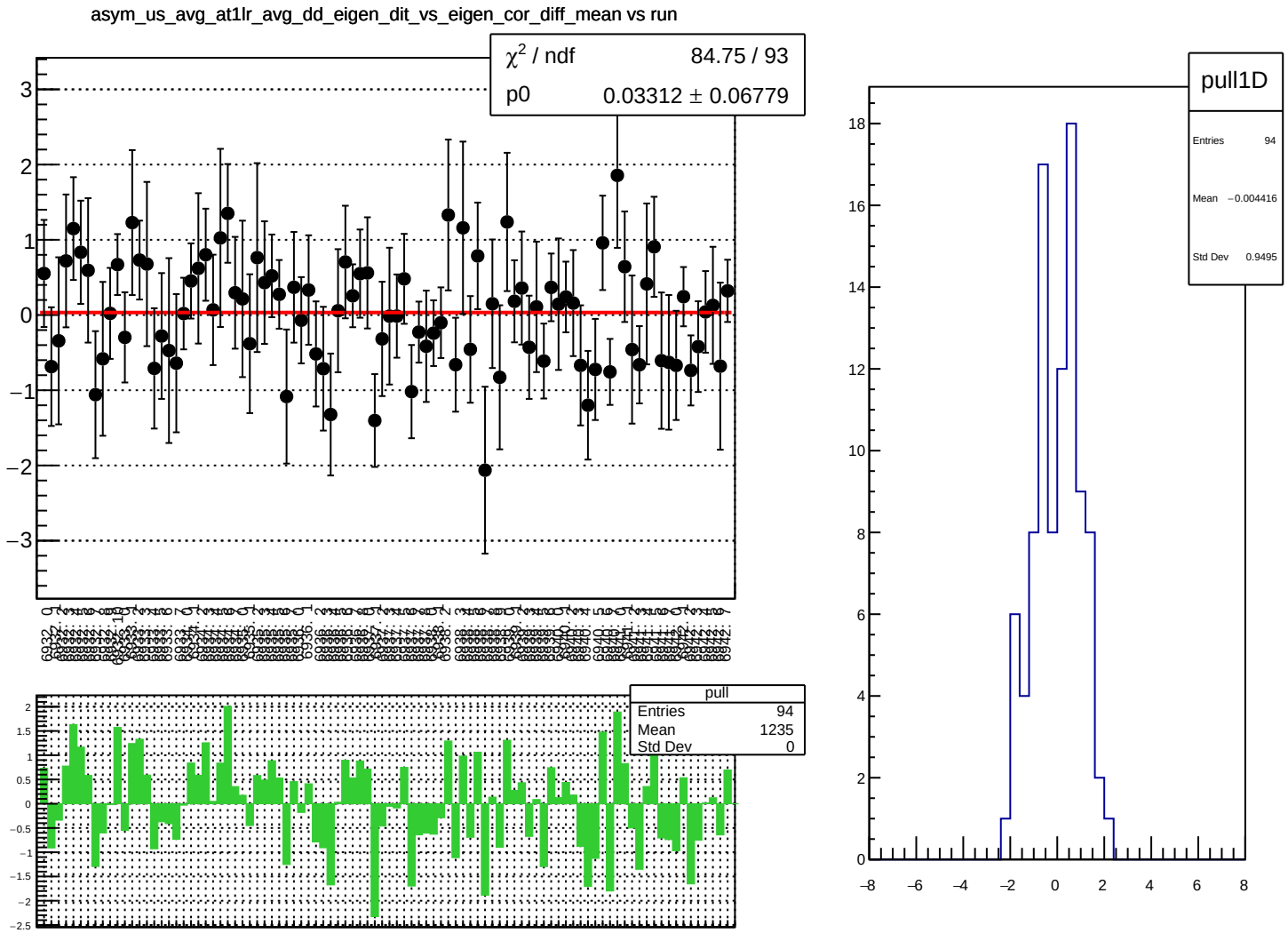

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.43 / 93
p0 4.085e−06 ± 5.069e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 399.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

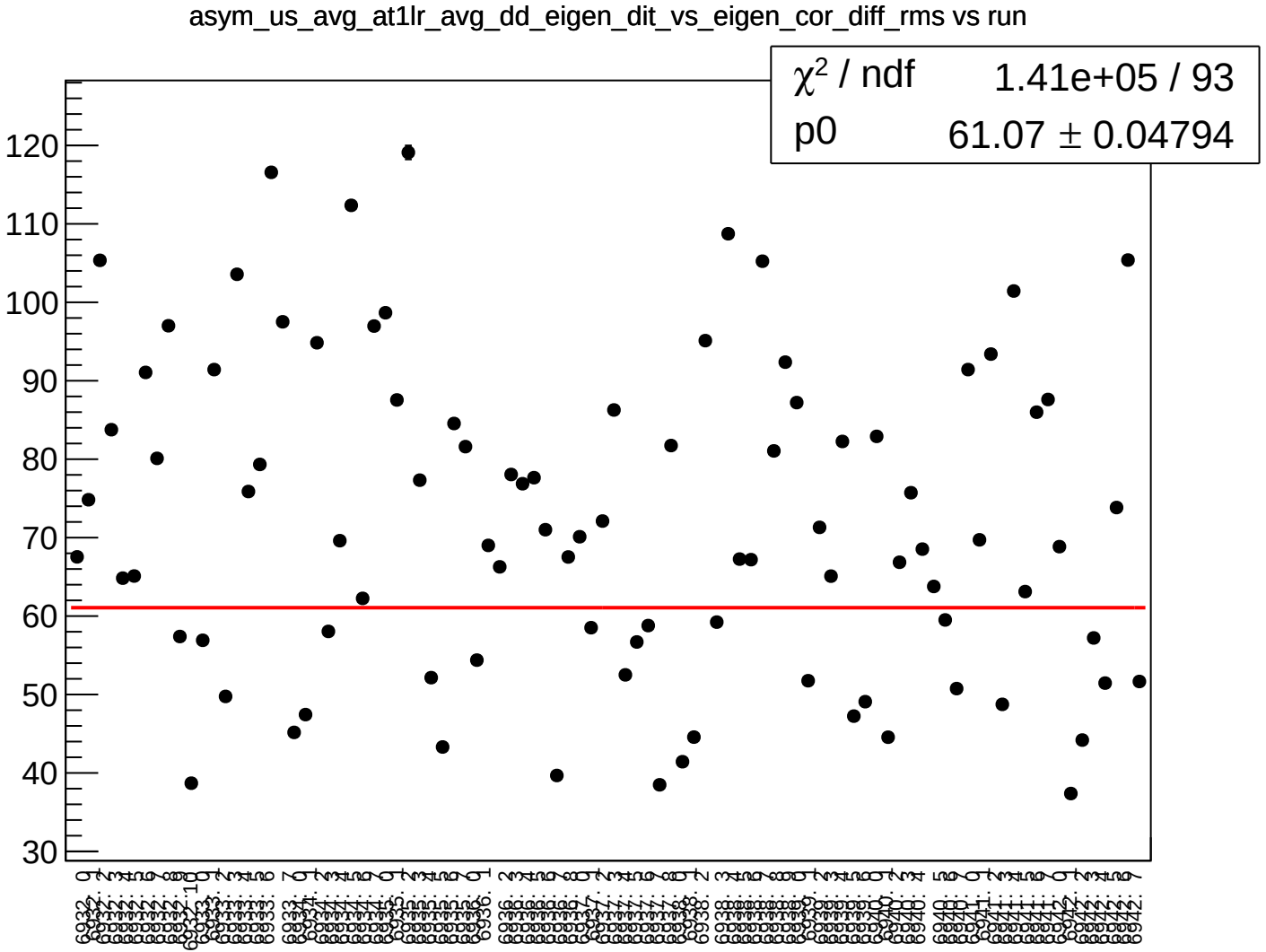

pull1D
Entries 94
Mean −0.007088
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

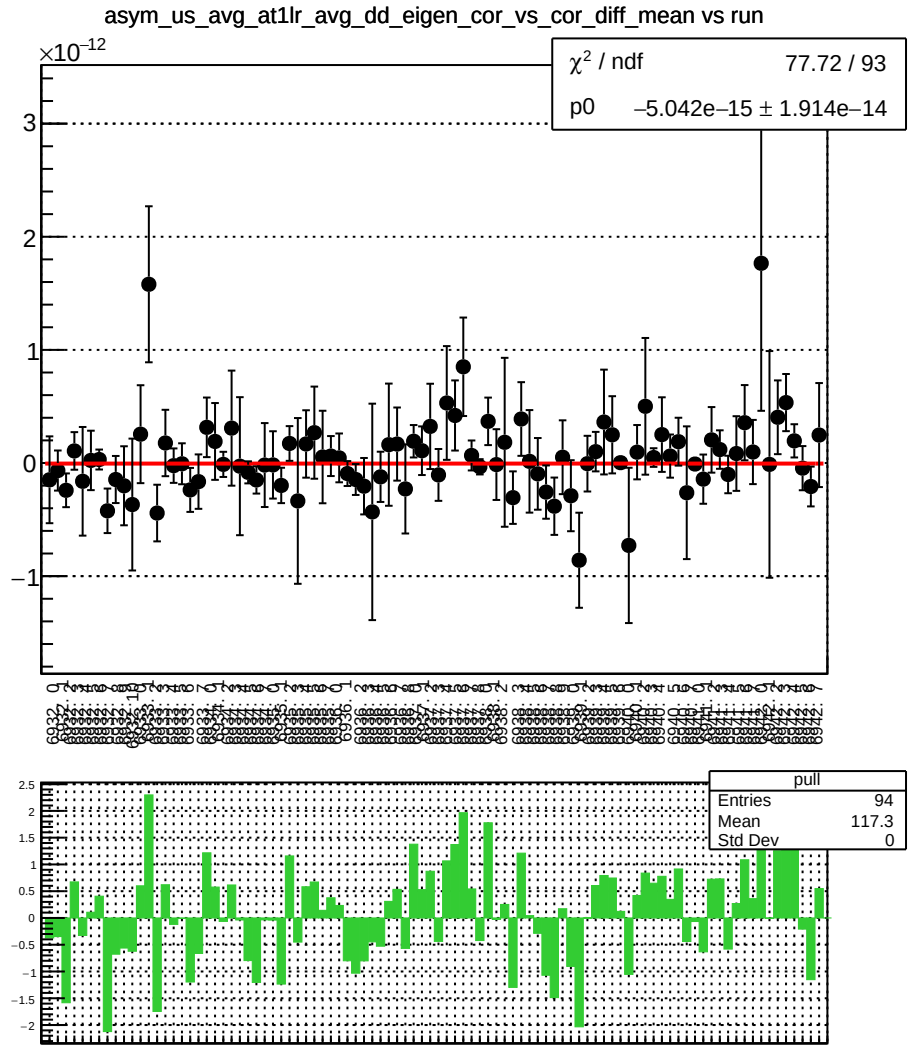

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5167 / 93
p0 0.004753 ± 3.584e−06
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

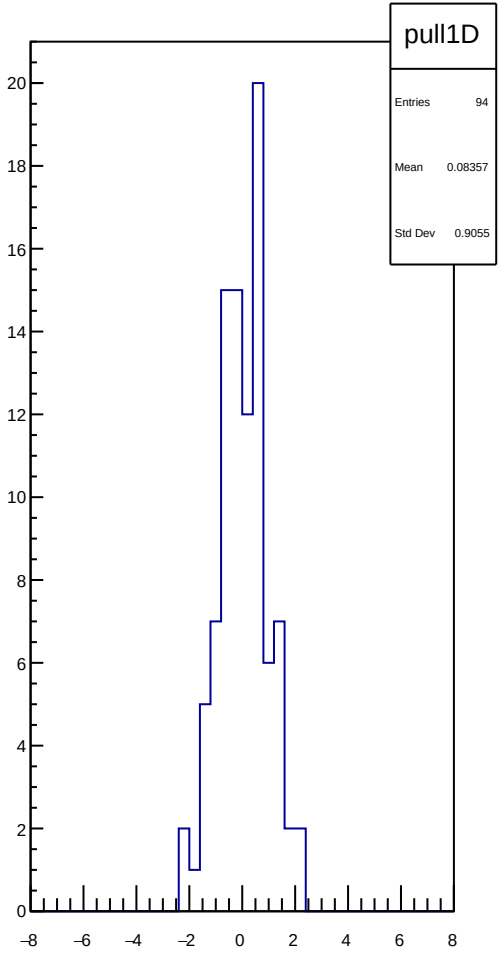

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.75 / 93
p0 0.03312 ± 0.06779
pull
Entries 94
Mean 1235
Std Dev 0
pull1D
Entries 94
Mean −0.004416
Std Dev 0.9495

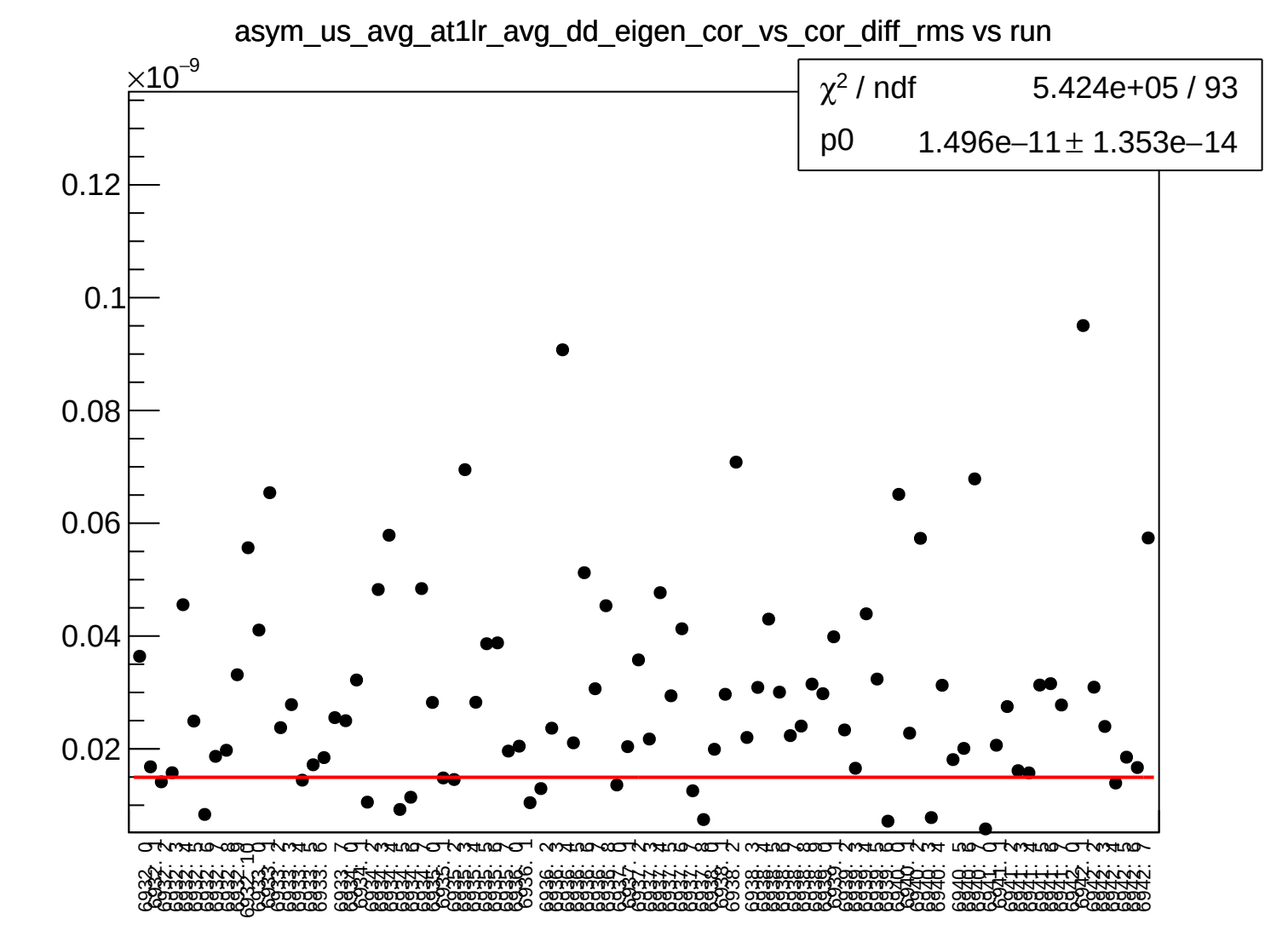

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.41e+05 / 93
p0 61.07 ± 0.04794
120
110
100
90
80
70
60
50
40
30

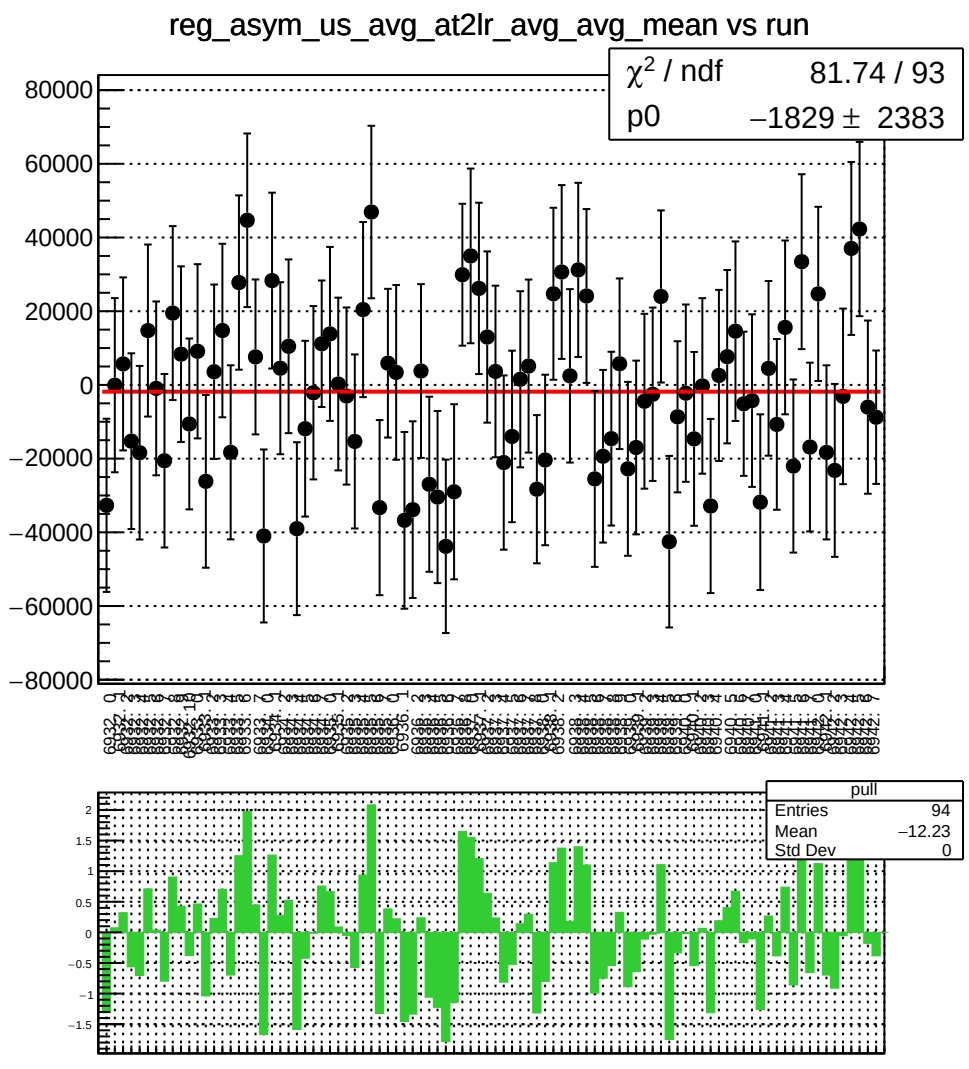

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.75 / 93
p0 0.03312 ± 0.06779
pull
Entries 94
Mean 1235
Std Dev 0
pull1D
Entries 94
Mean −0.004416
Std Dev 0.9495

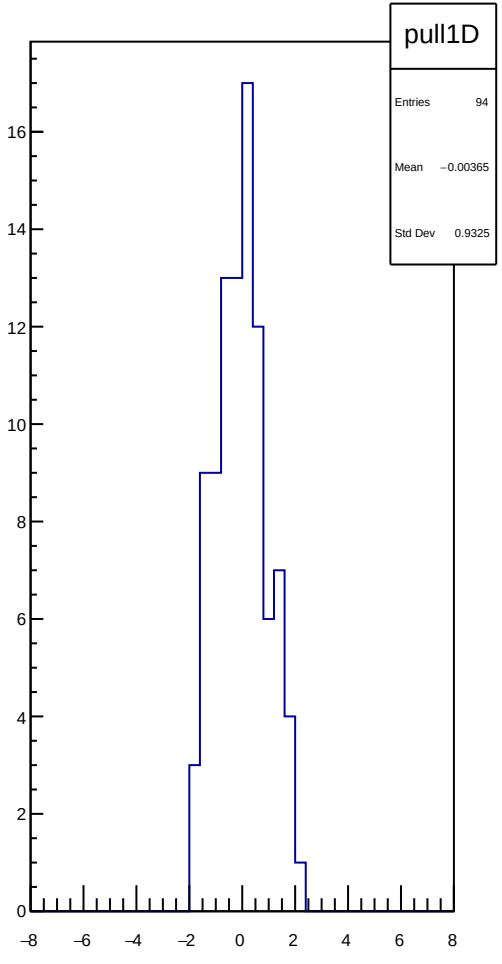

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.41e+05 / 93
p0 61.07 ± 0.04794
120
110
100
90
80
70
60
50
40
30

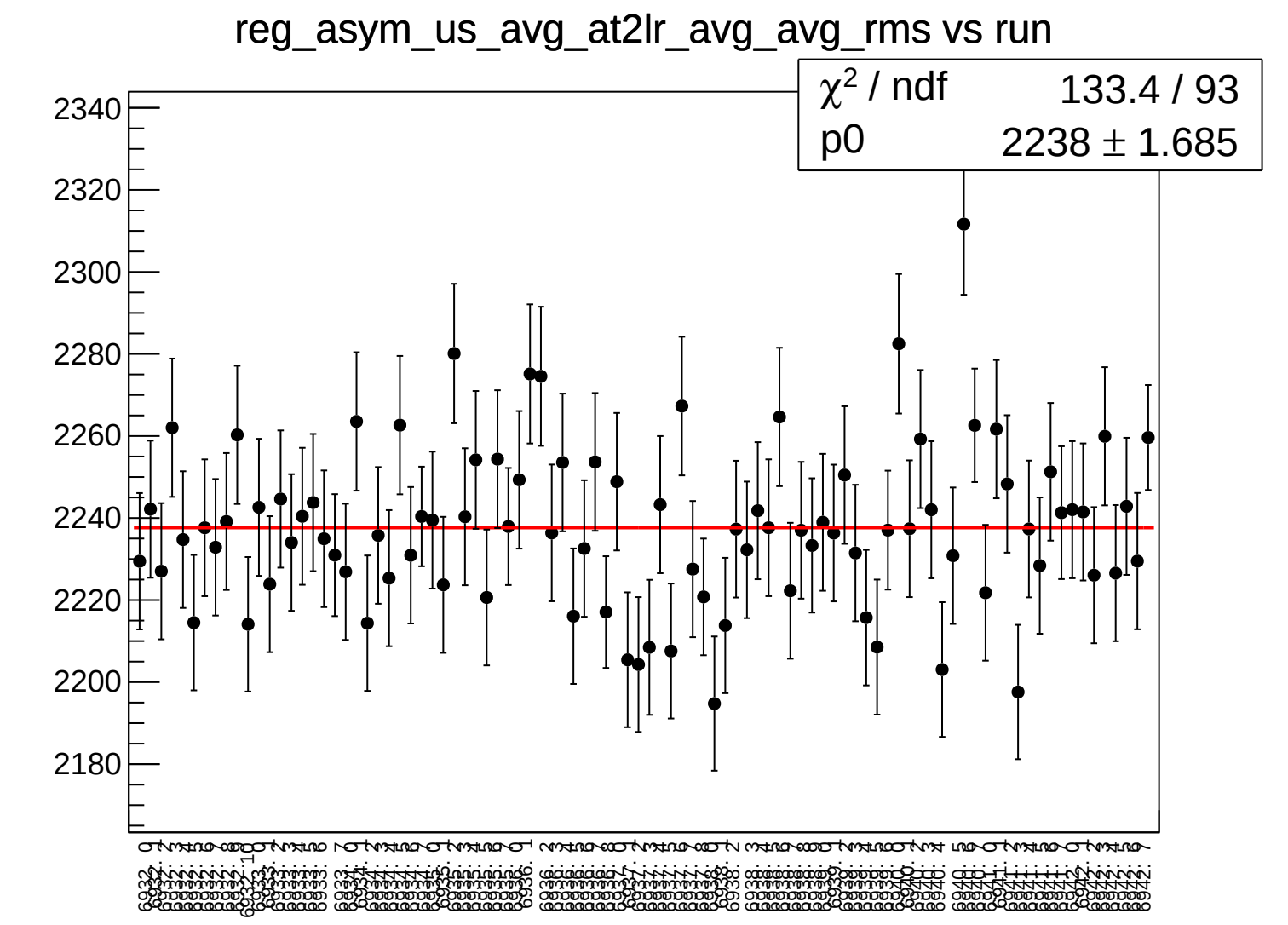

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.72 / 93
p0 −5.042e−15 ± 1.914e−14
pull
Entries 94
Mean 117.3
Std Dev 0

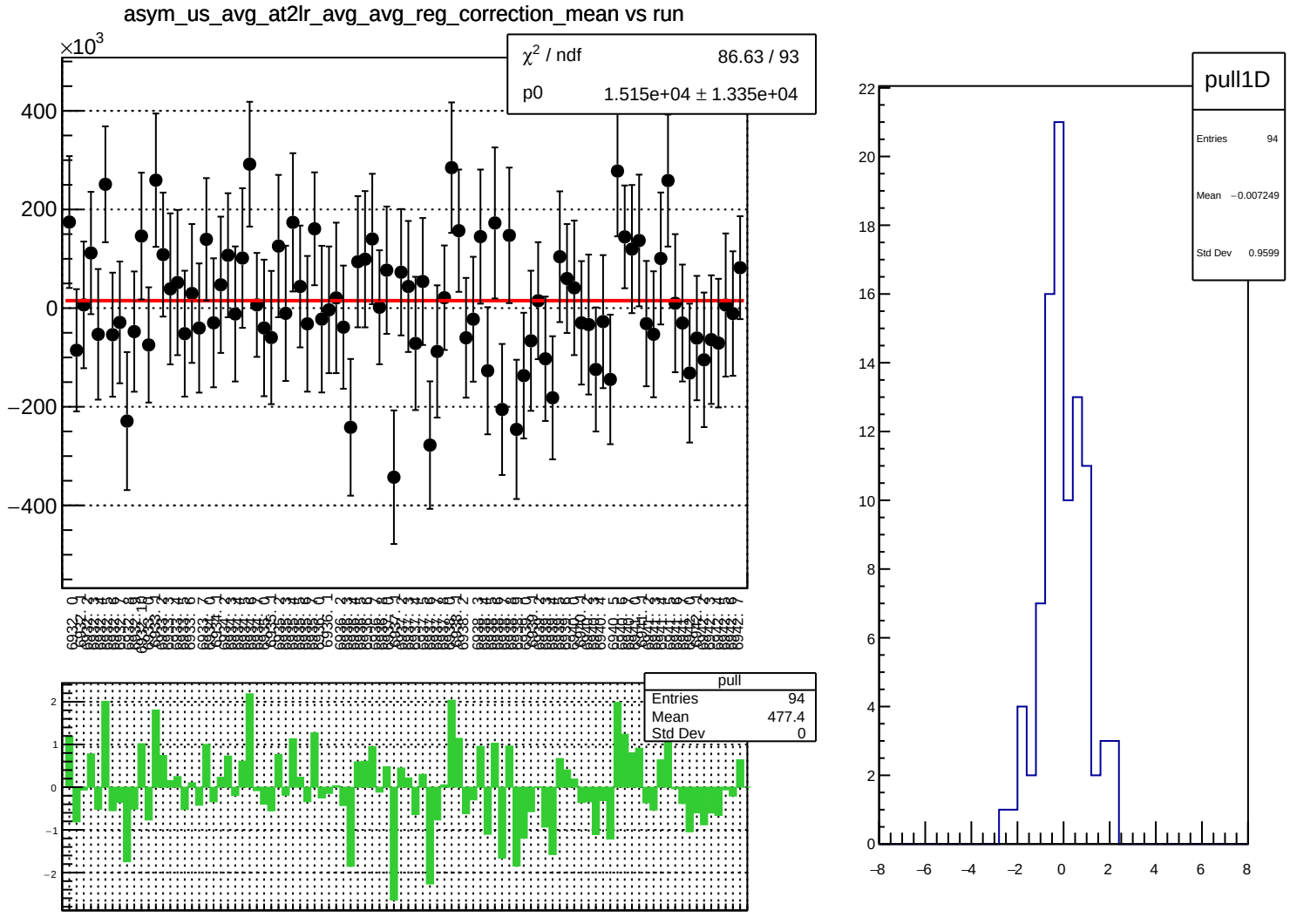

pull1D
Entries 94
Mean 0.08357
Std Dev 0.9055

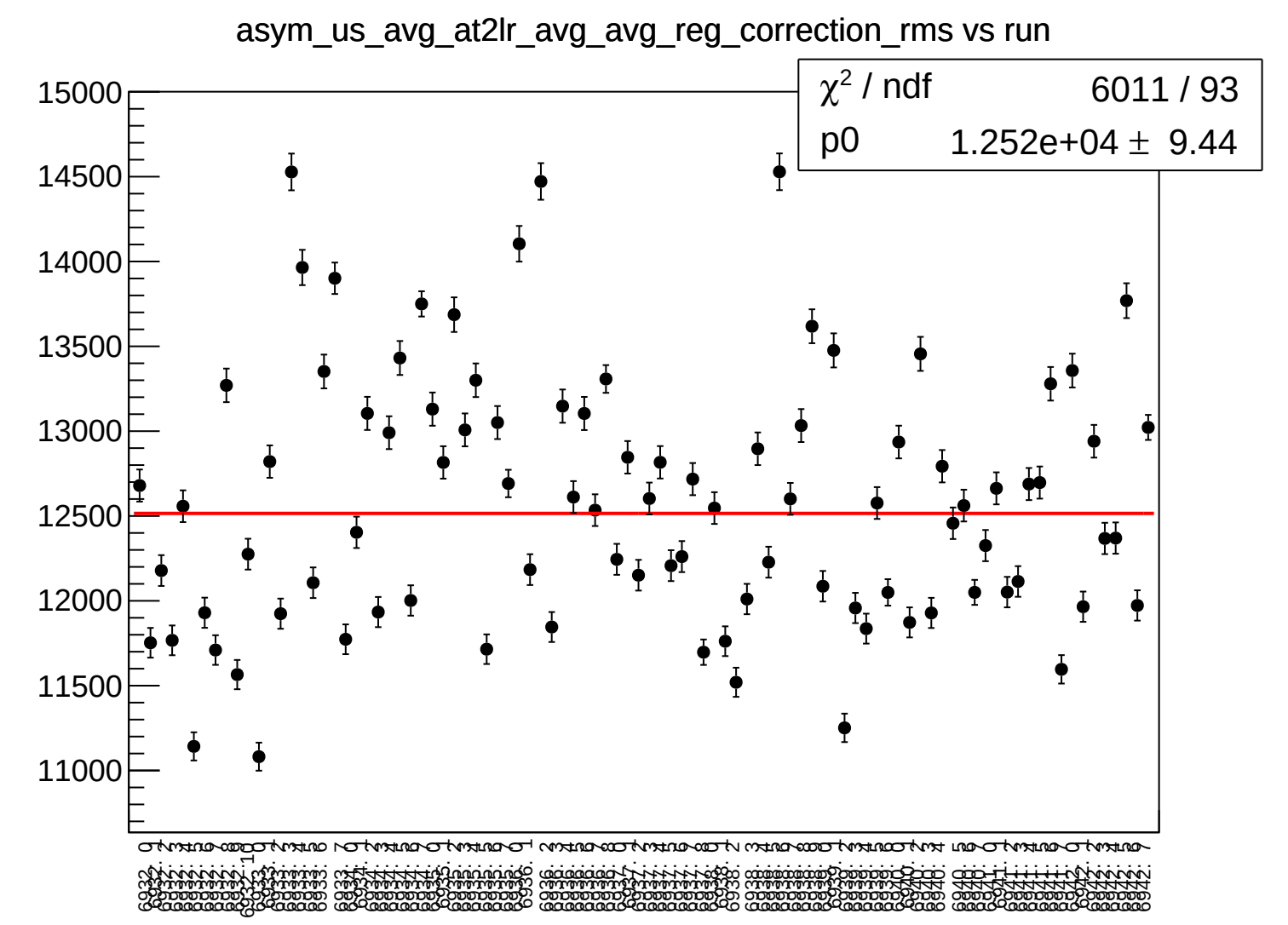

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.424e+05 / 93
p0 1.496e−11 ± 1.353e−14
0.12
0.1
0.08
0.06
0.04
0.02

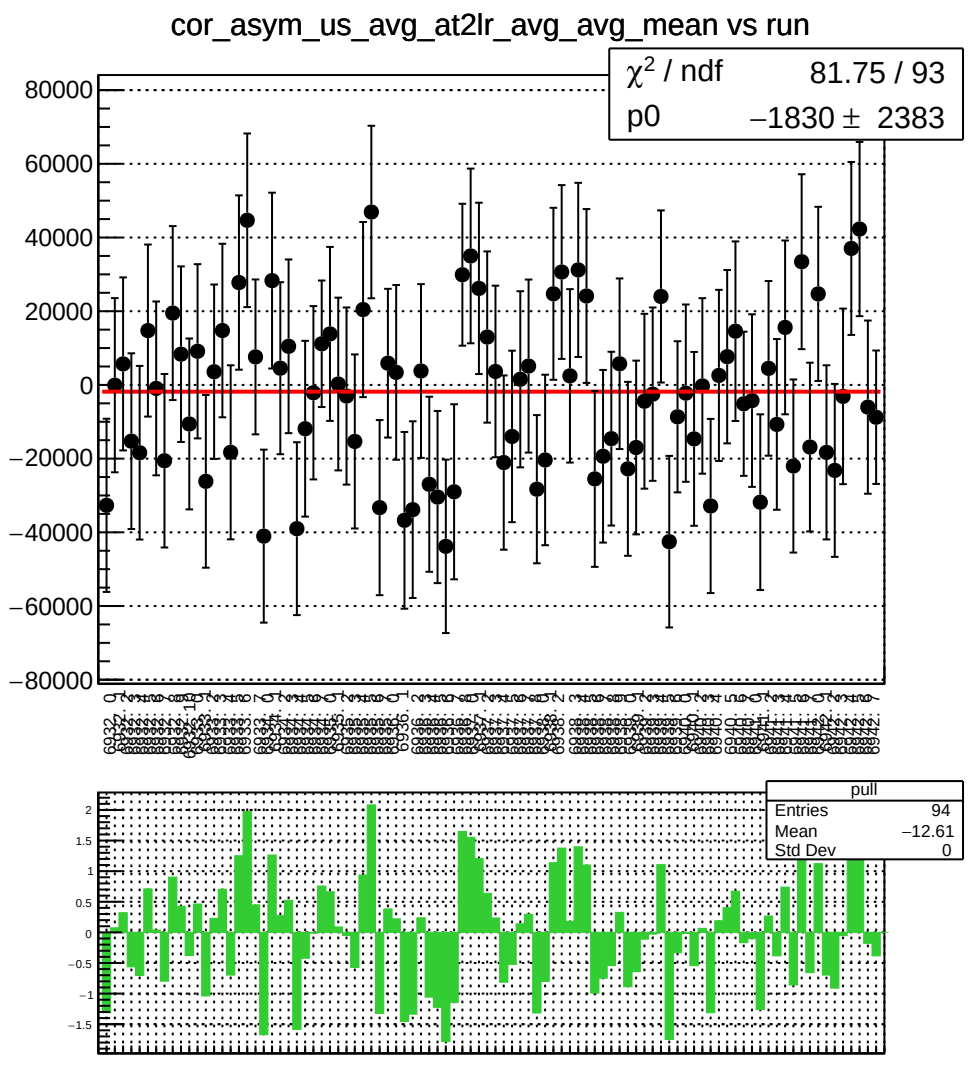

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.74 / 93
p0 −1829 ± 2383
pull
Entries 94
Mean −12.23
Std Dev 0

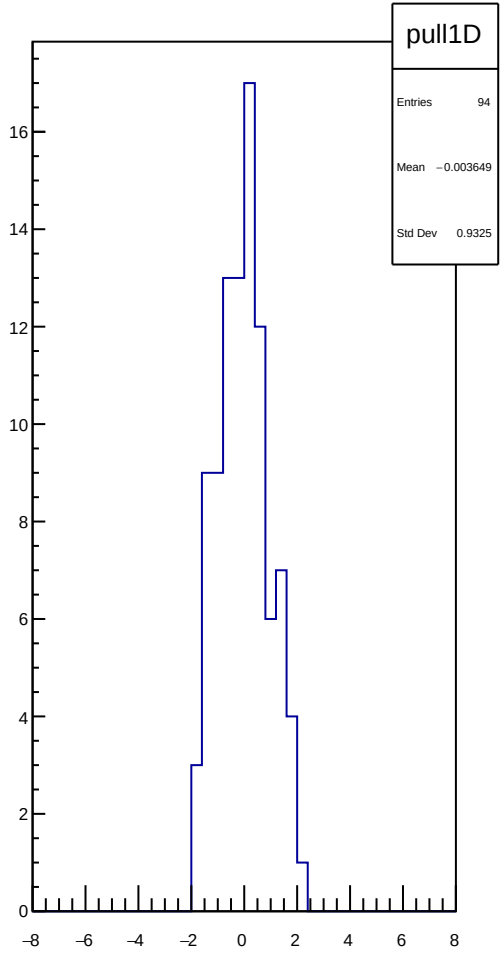

pull1D
Entries 94
Mean −0.00365
Std Dev 0.9325

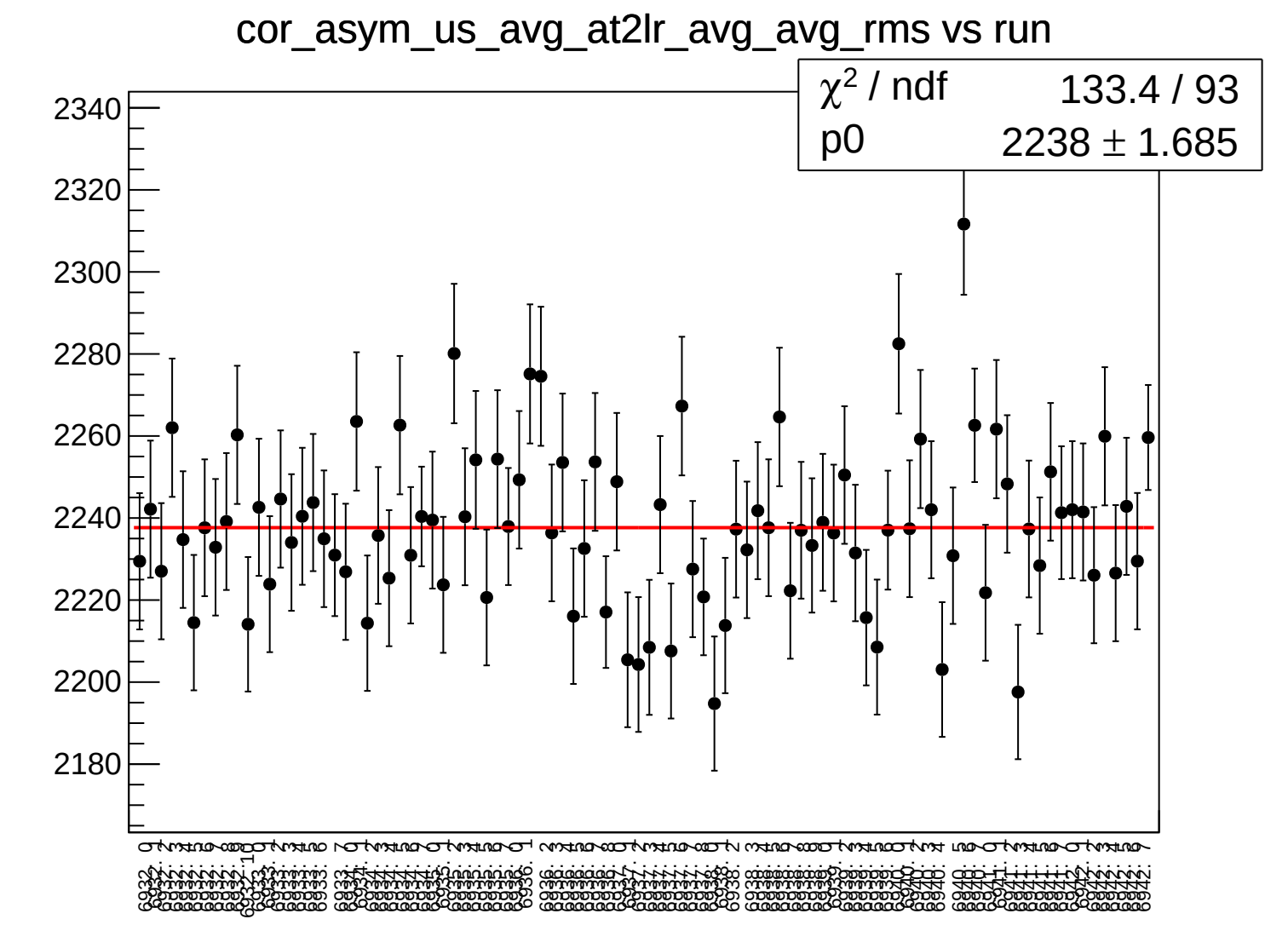

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 133.4 / 93
p0 2238 ± 1.685
2340
2320
2300
2280
2260
2240
2220
2200
2180

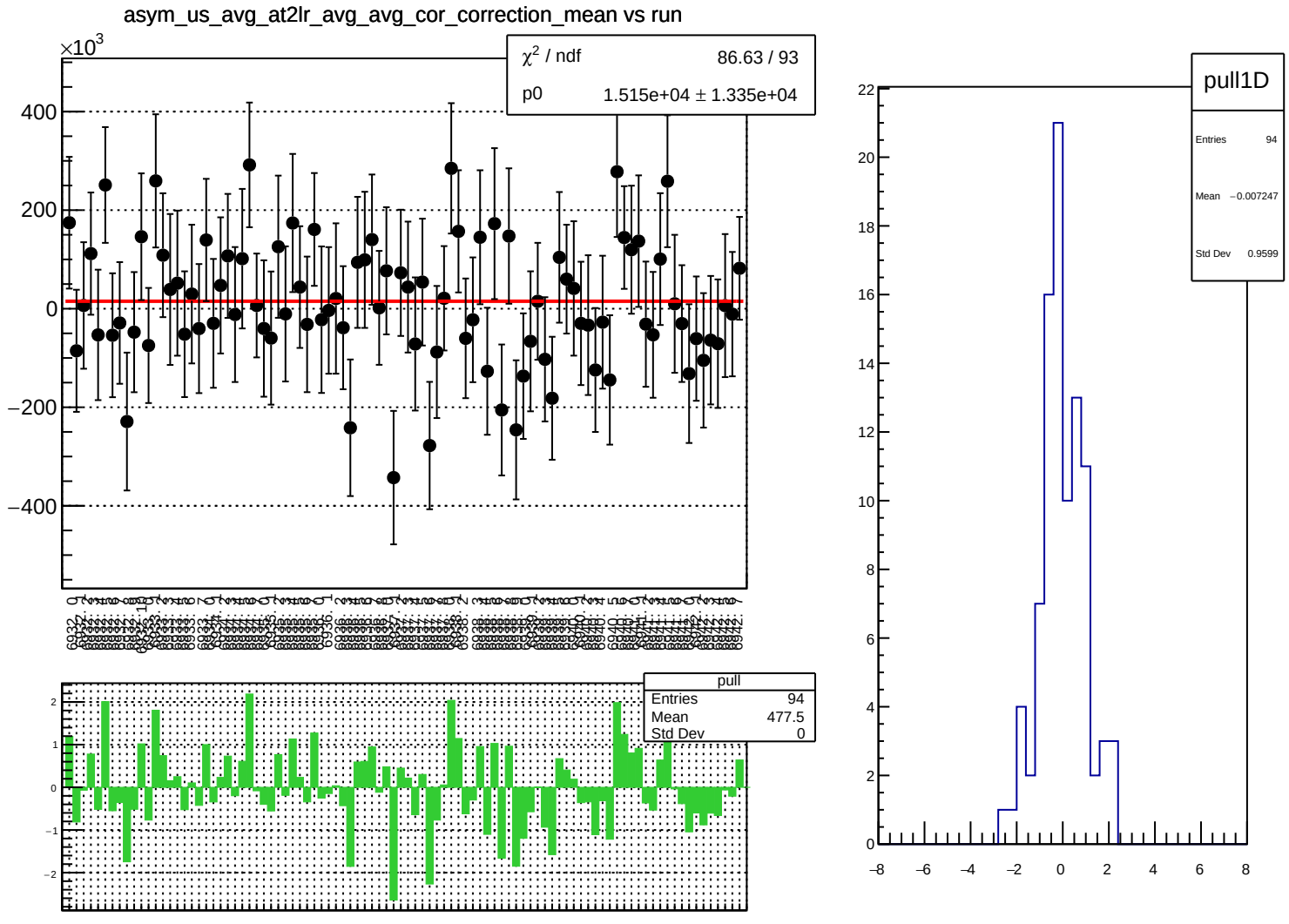

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.63 / 93
p0 1.515e+04 ± 1.335e+04
400
200
0
−200
−400
pull
Entries 94
Mean 477.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007249
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

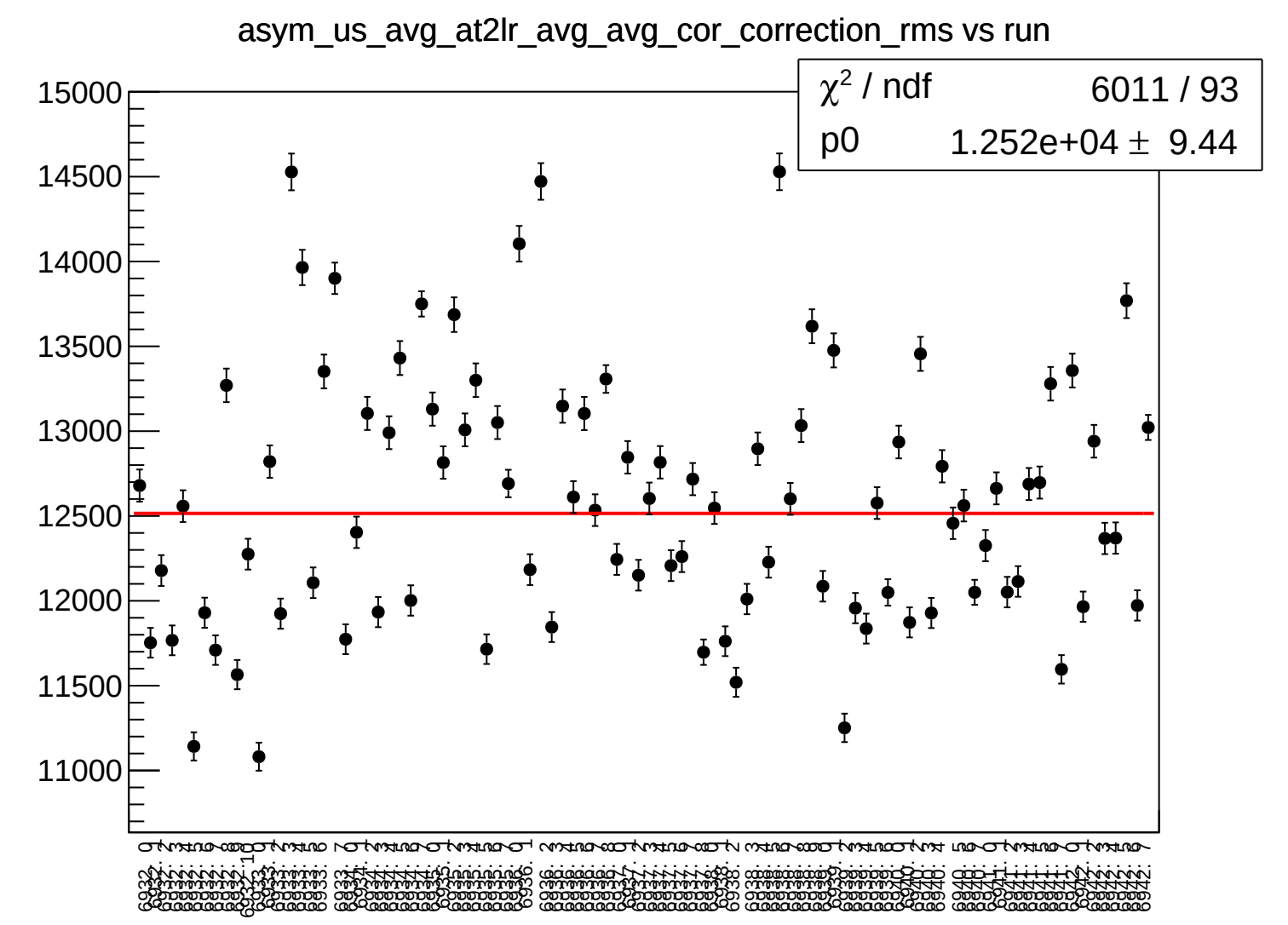

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6011 / 93
p0 1.252e+04 ± 9.44
15000
14500
14000
13500
13000
12500
12000
11500
11000

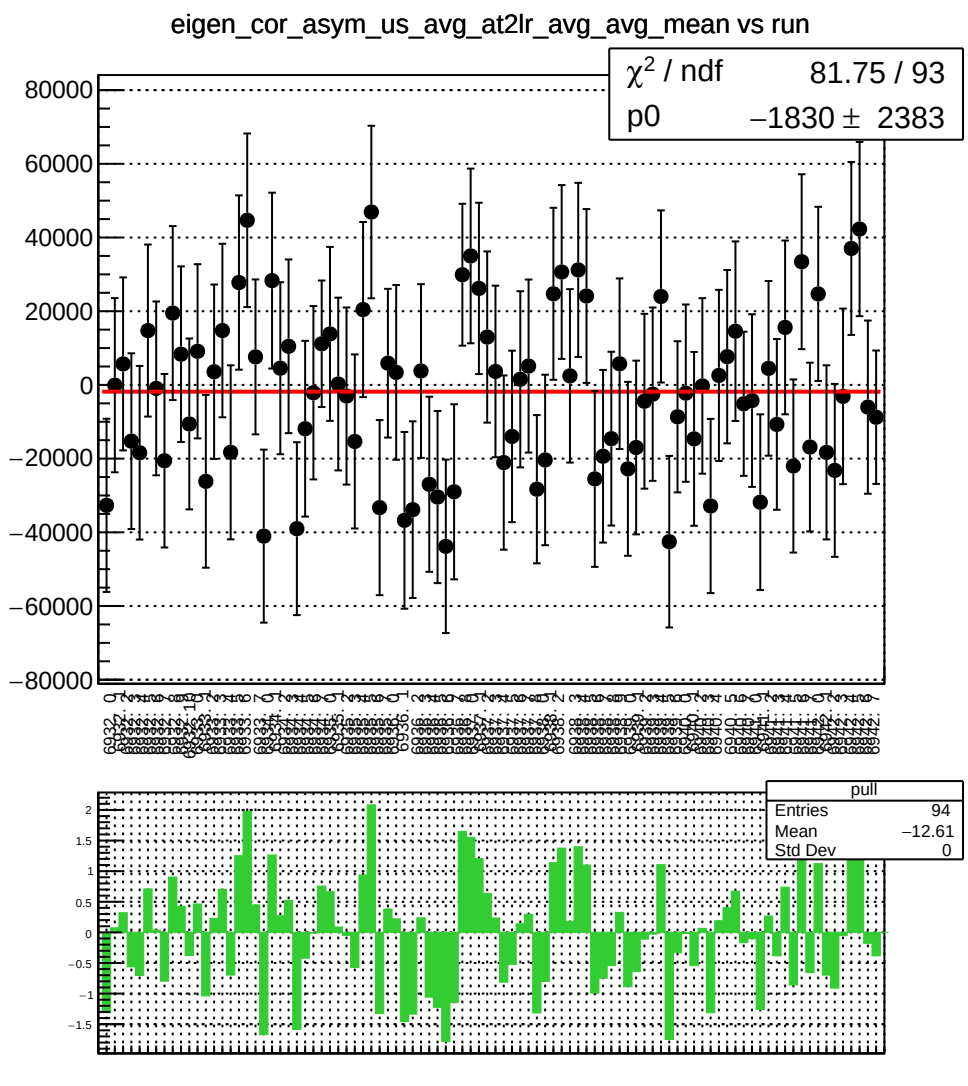

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.75 / 93
p0 −1830 ± 2383
pull
Entries 94
Mean −12.61
Std Dev 0

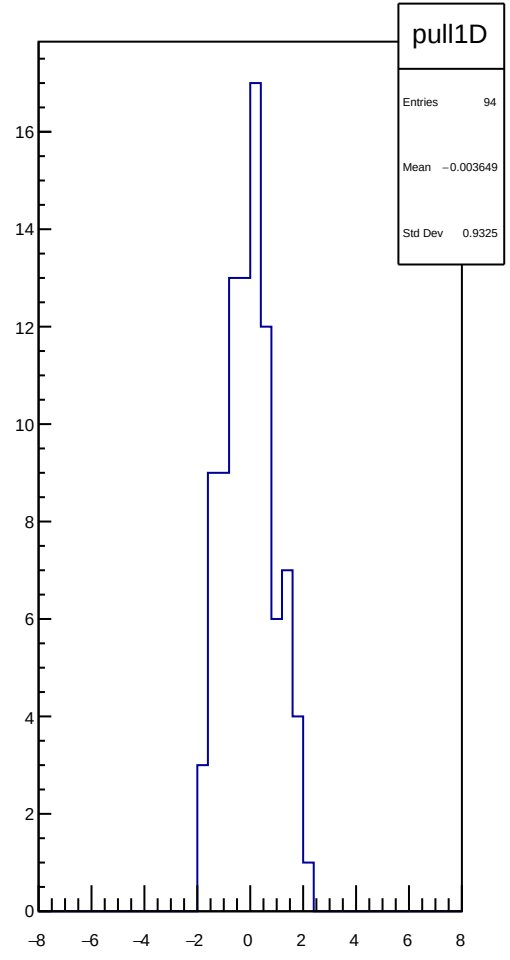

pull1D
Entries 94
Mean −0.003649
Std Dev 0.9325

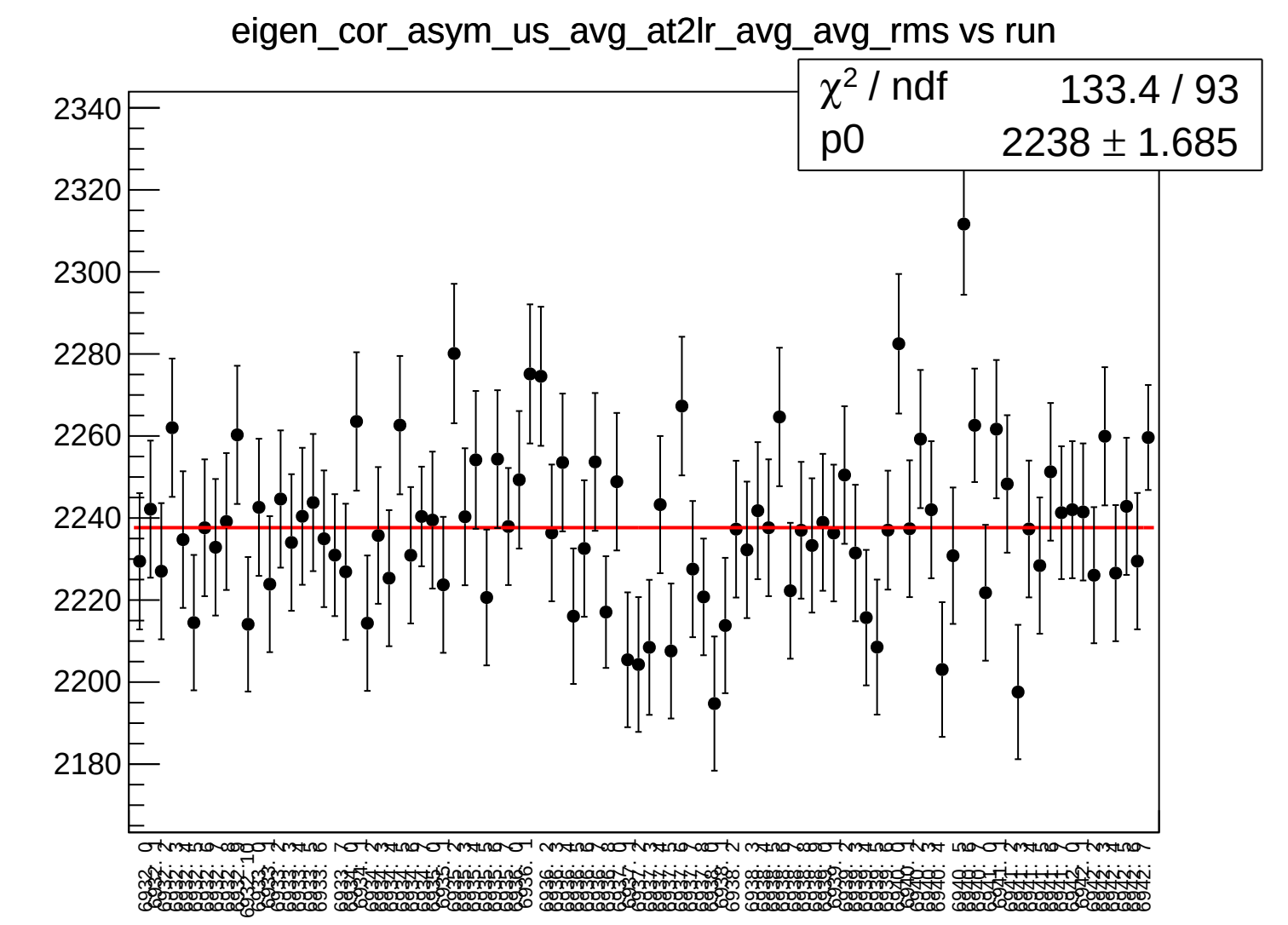

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 133.4 / 93
p0 2238 ± 1.685
2340
2320
2300
2280
2260
2240
2220
2200
2180

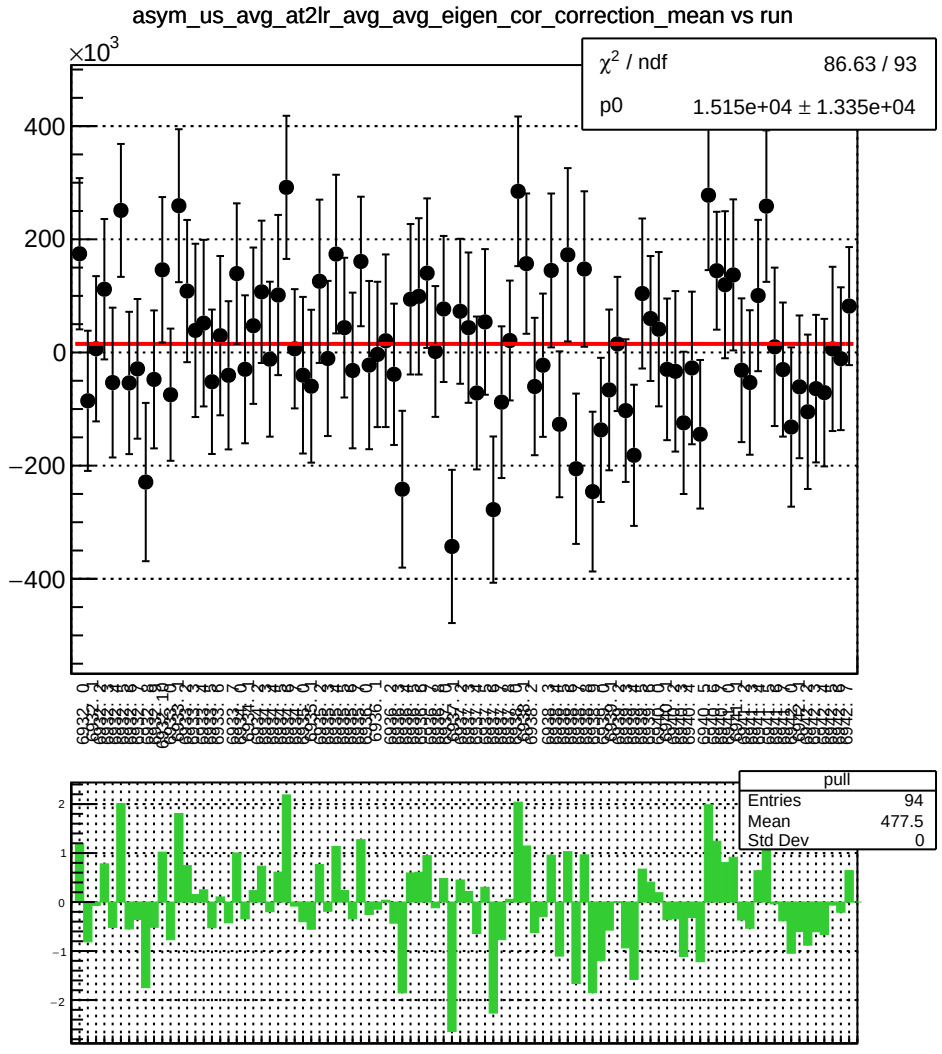

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 86.63 / 93
p0 1.515e+04 ± 1.335e+04
400
200
0
−200
−400
pull
Entries 94
Mean 477.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007247
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

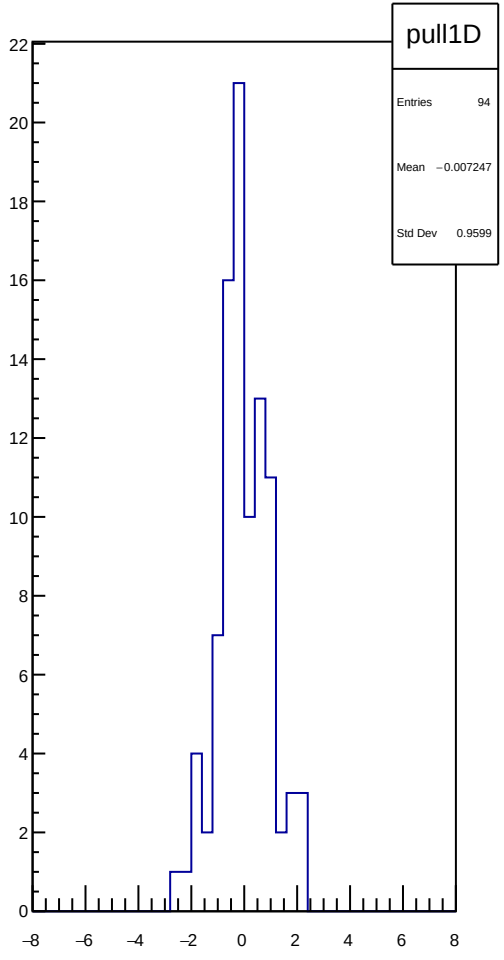

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6011 / 93
p0 1.252e+04 ± 9.44
15000
14500
14000
13500
13000
12500
12000
11500
11000

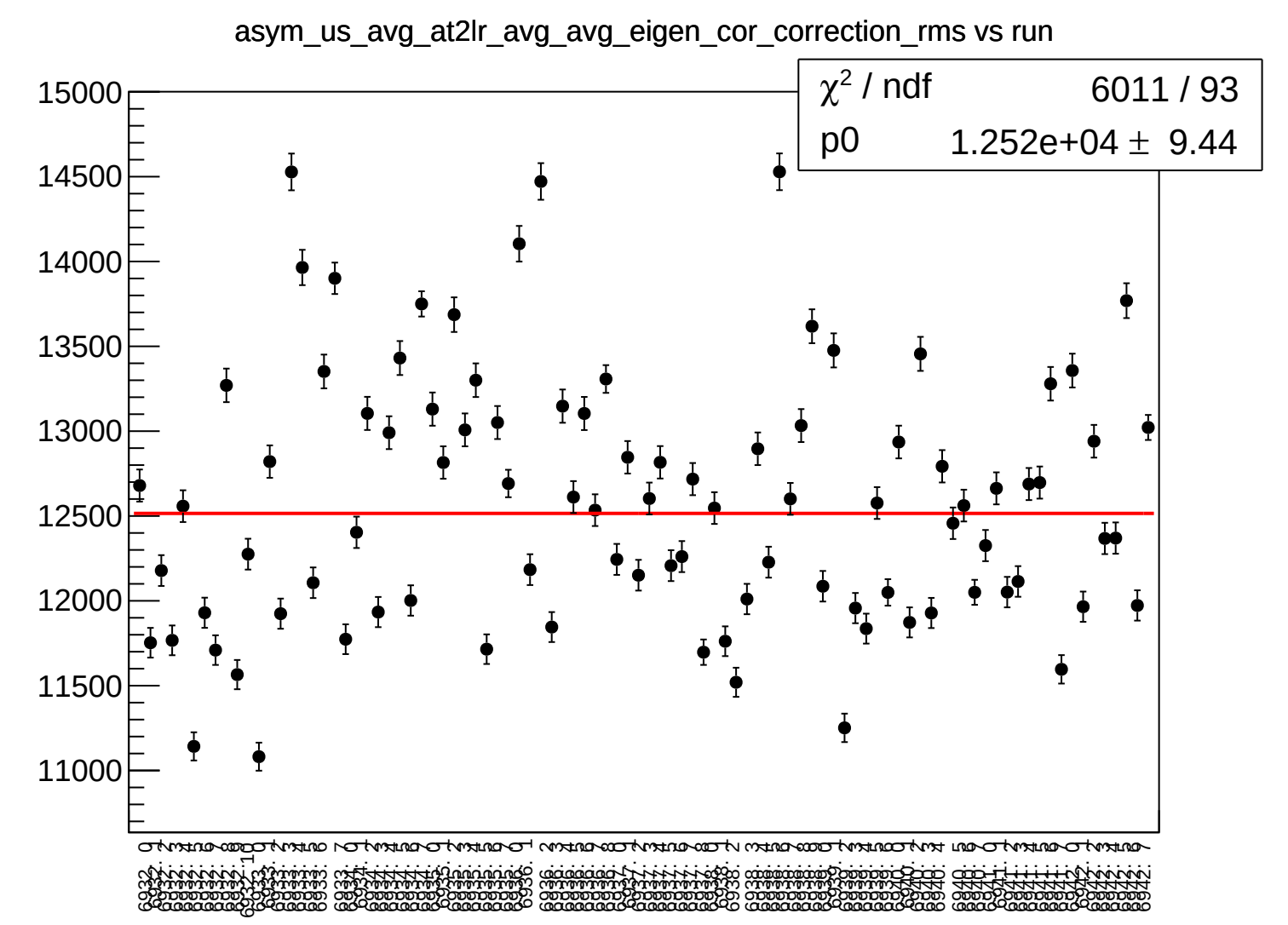

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.75 / 93
p0 −1830 ± 2383
pull
Entries 94
Mean −12.61
Std Dev 0

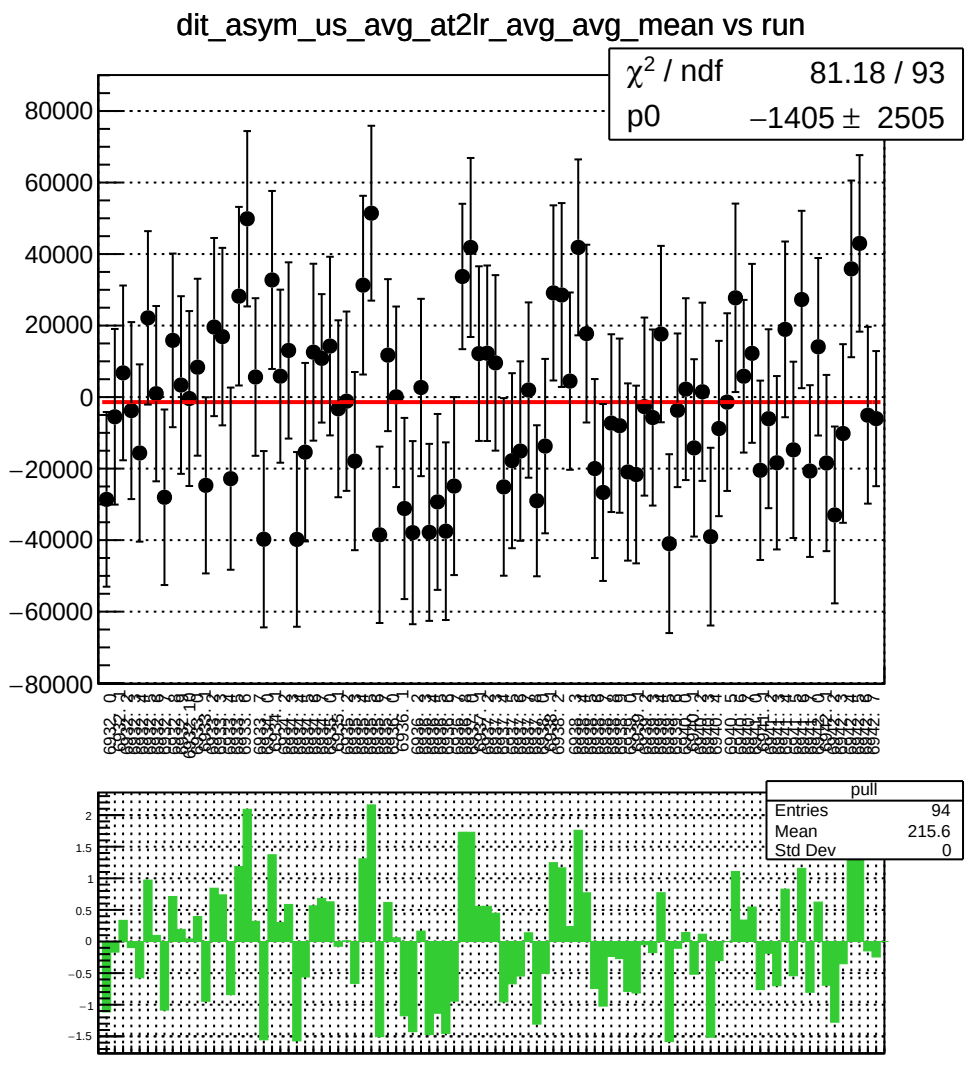

pull1D
Entries 94
Mean −0.003649
Std Dev 0.9325

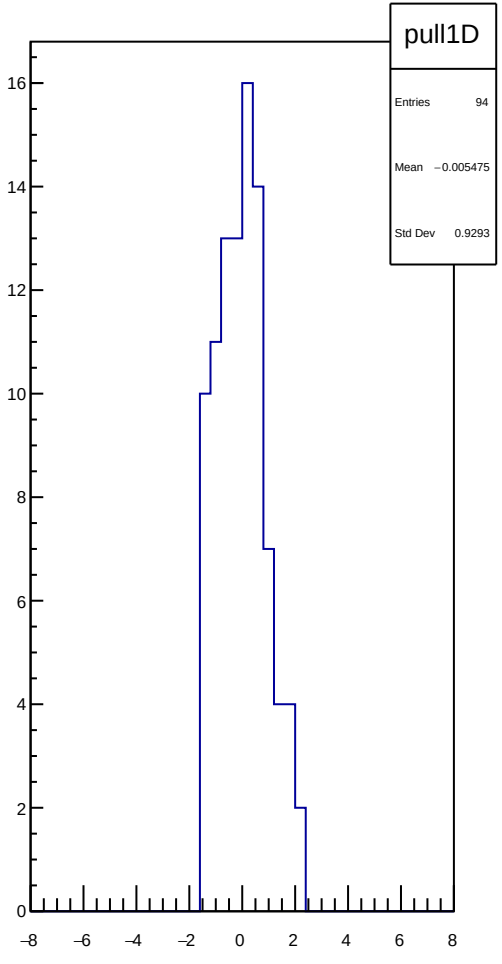

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 133.4 / 93
p0 2238 ± 1.685
2340
2320
2300
2280
2260
2240
2220
2200
2180

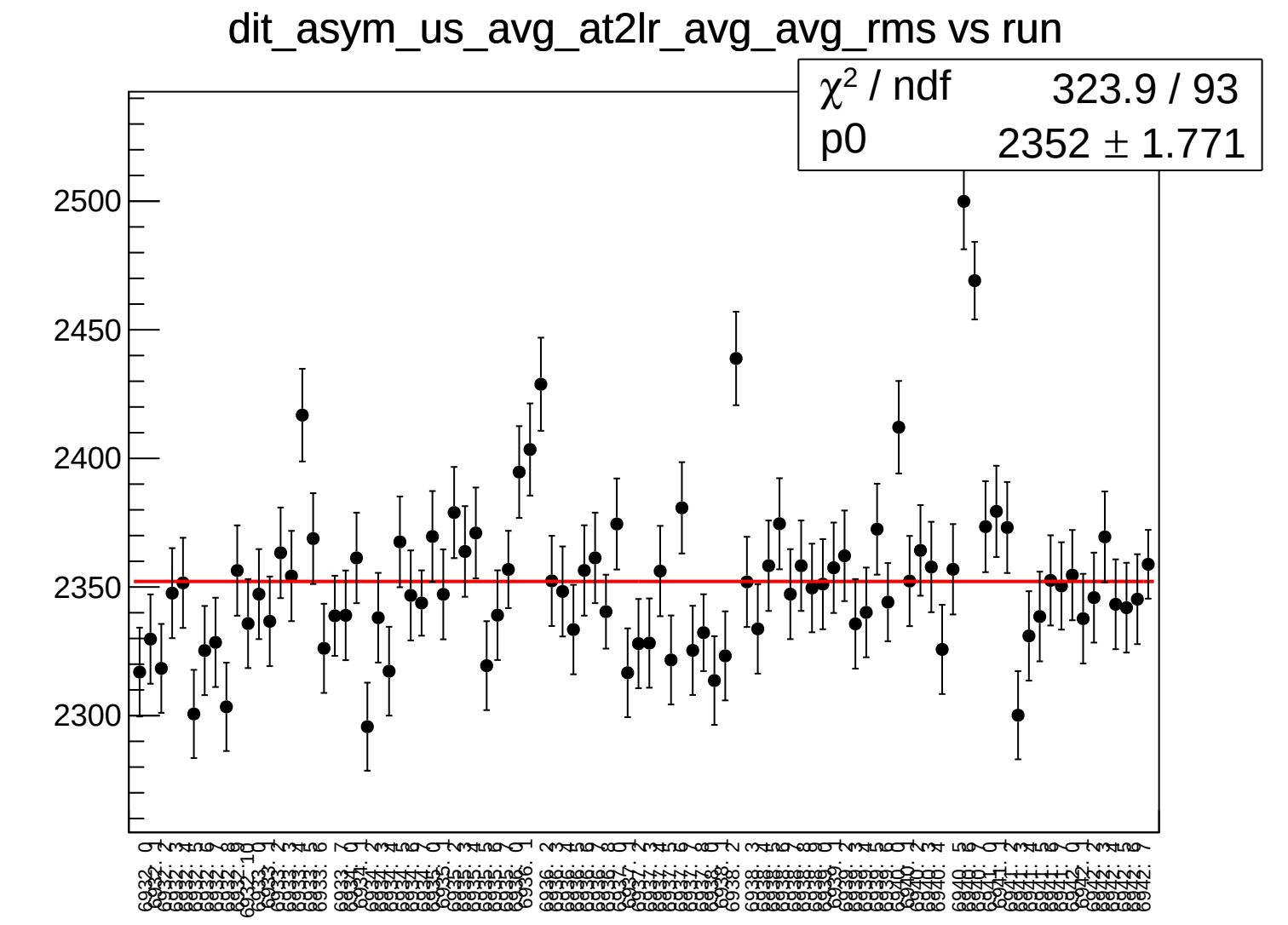

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.63 / 93
p0 1.515e+04 ± 1.335e+04
400
200
0
−200
−400
pull
Entries 94
Mean 477.5
Std Dev 0
2
1
0
−1
−2

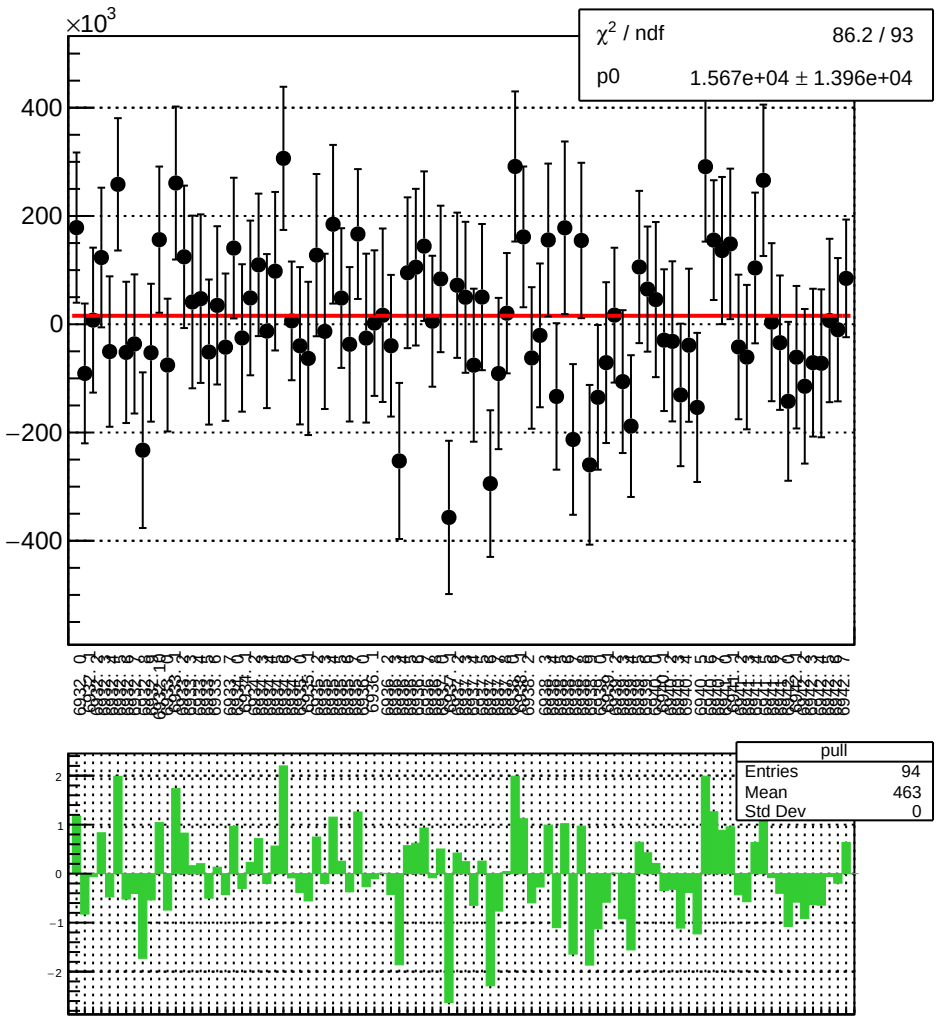

pull1D
Entries 94
Mean −0.007247
Std Dev 0.9599
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

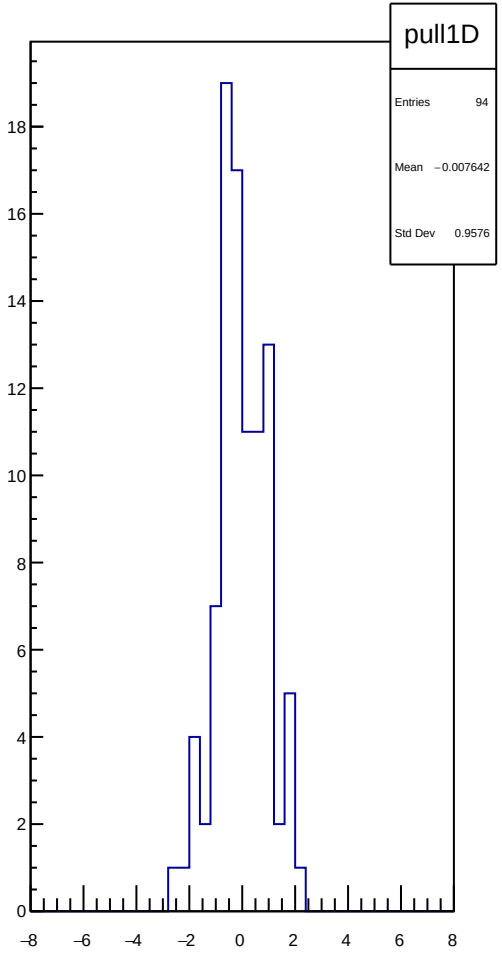

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6011 / 93
p0 1.252e+04 ± 9.44
15000
14500
14000
13500
13000
12500
12000
11500
11000

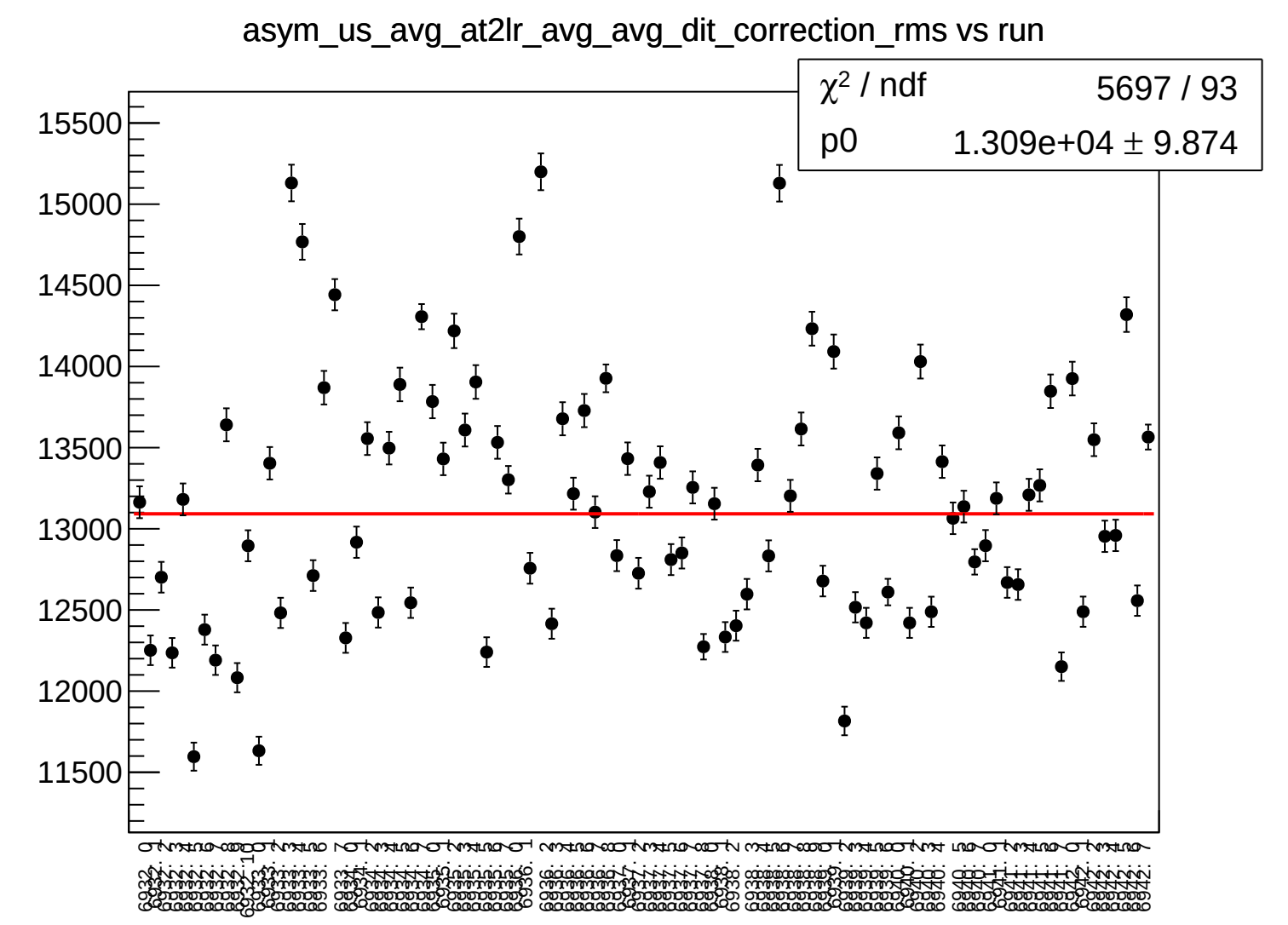

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.18 / 93
p0 −1405 ± 2505
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 215.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

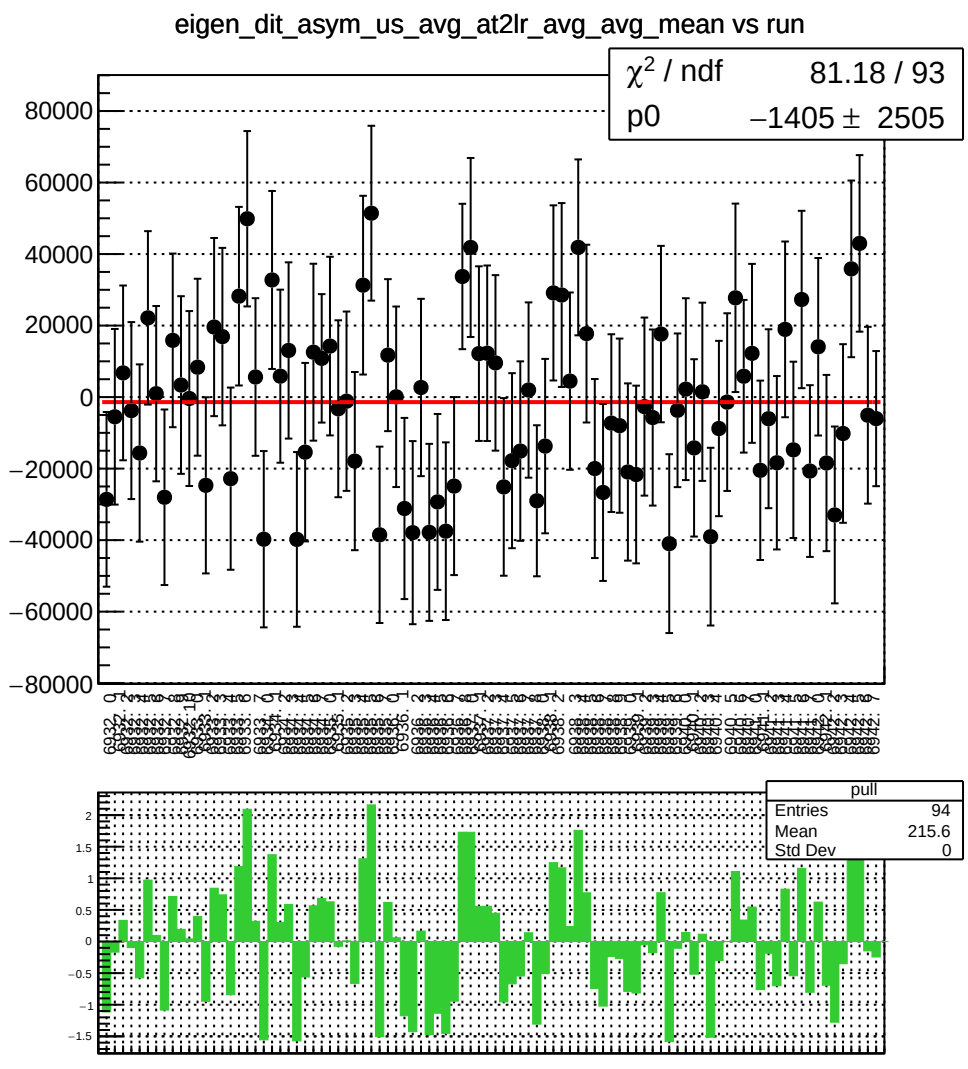

pull1D
Entries 94
Mean −0.005475
Std Dev 0.9293
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

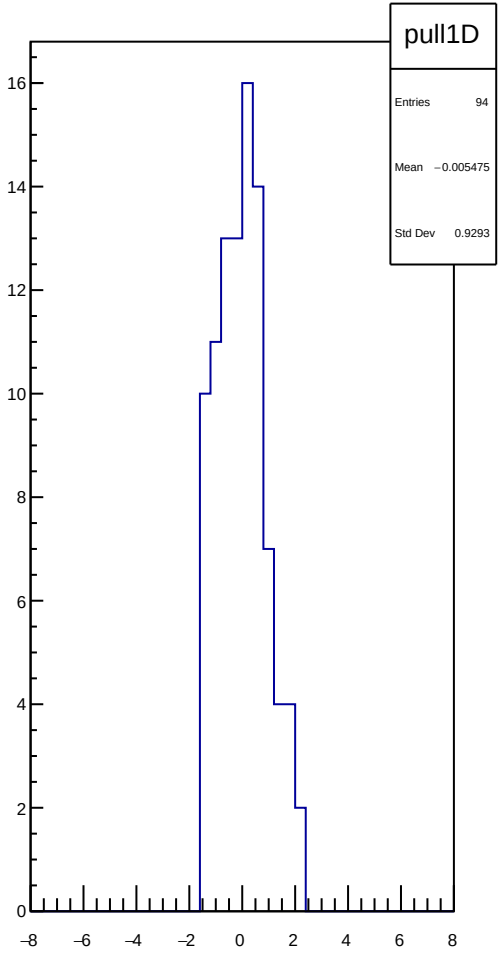

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 323.9 / 93
p0 2352 ± 1.771
2500
2450
2400
2350
2300

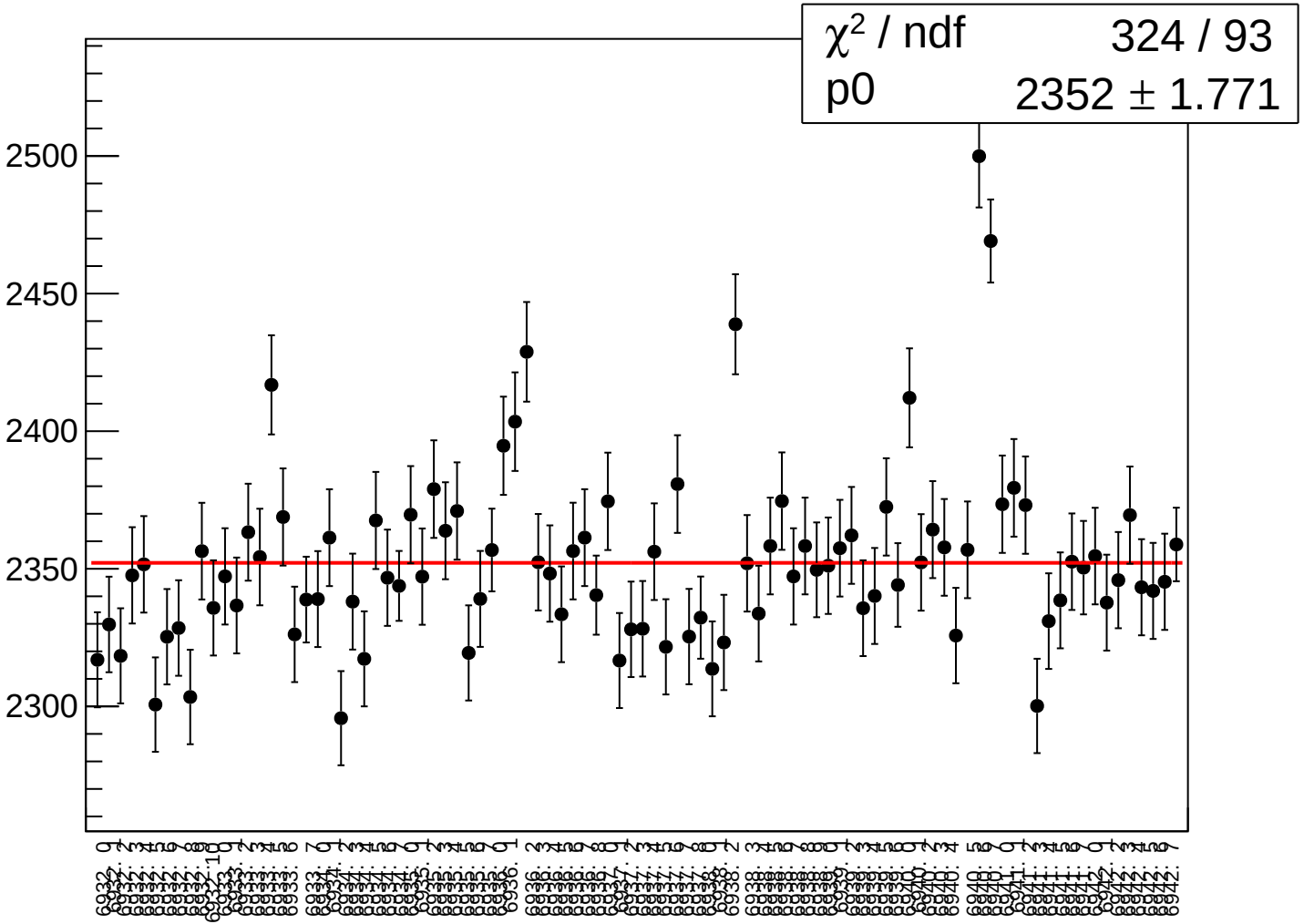

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.2 / 93
p0 1.567e+04 ± 1.396e+04
400
200
0
−200
−400
pull
Entries 94
Mean 463
Std Dev 0
2
1
0
−1
−2

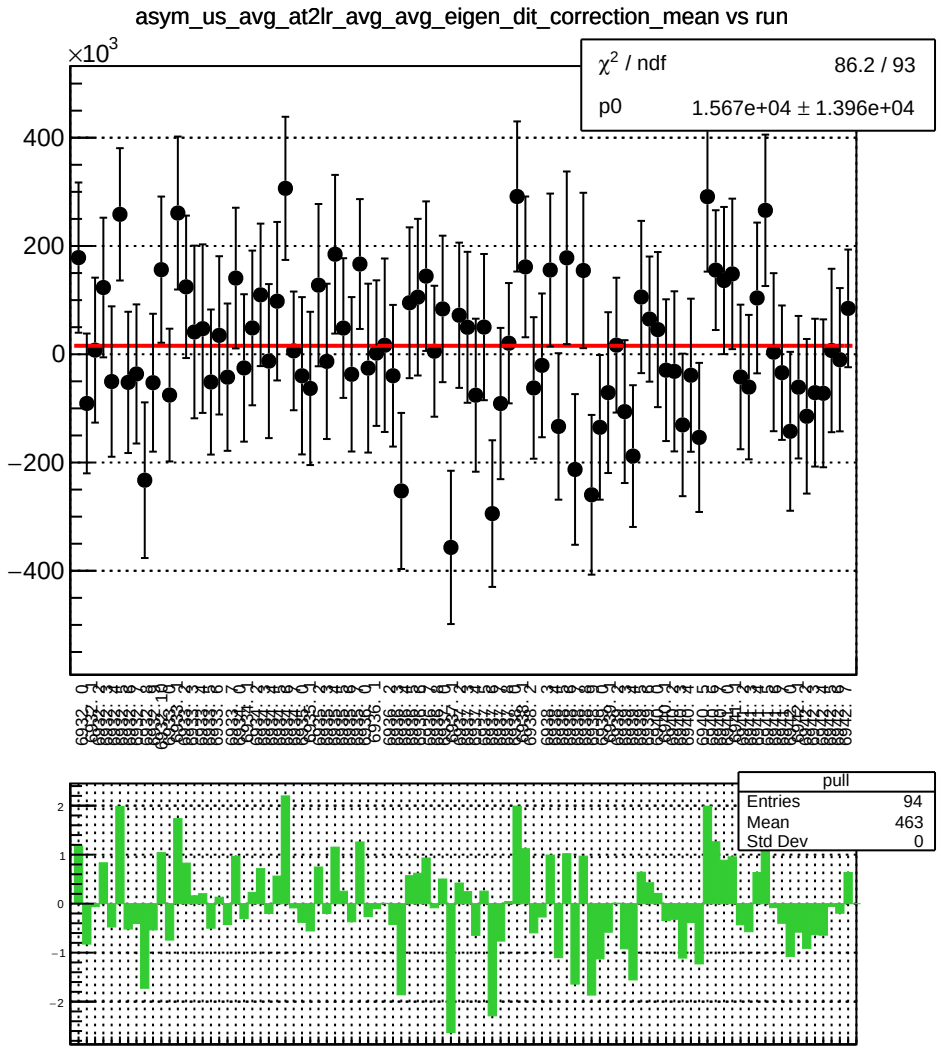

pull1D
Entries 94
Mean −0.007642
Std Dev 0.9576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

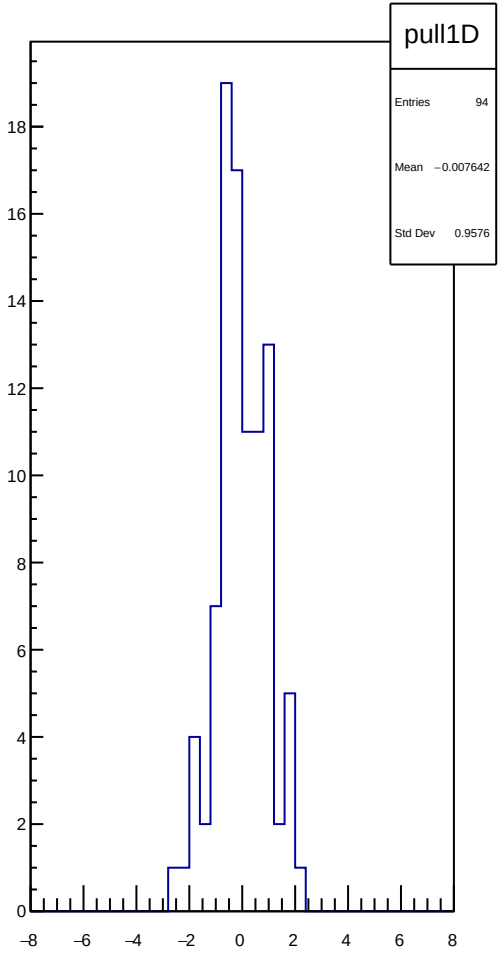

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5697 / 93
p0 1.309e+04 ± 9.874
15500
15000
14500
14000
13500
13000
12500
12000
11500

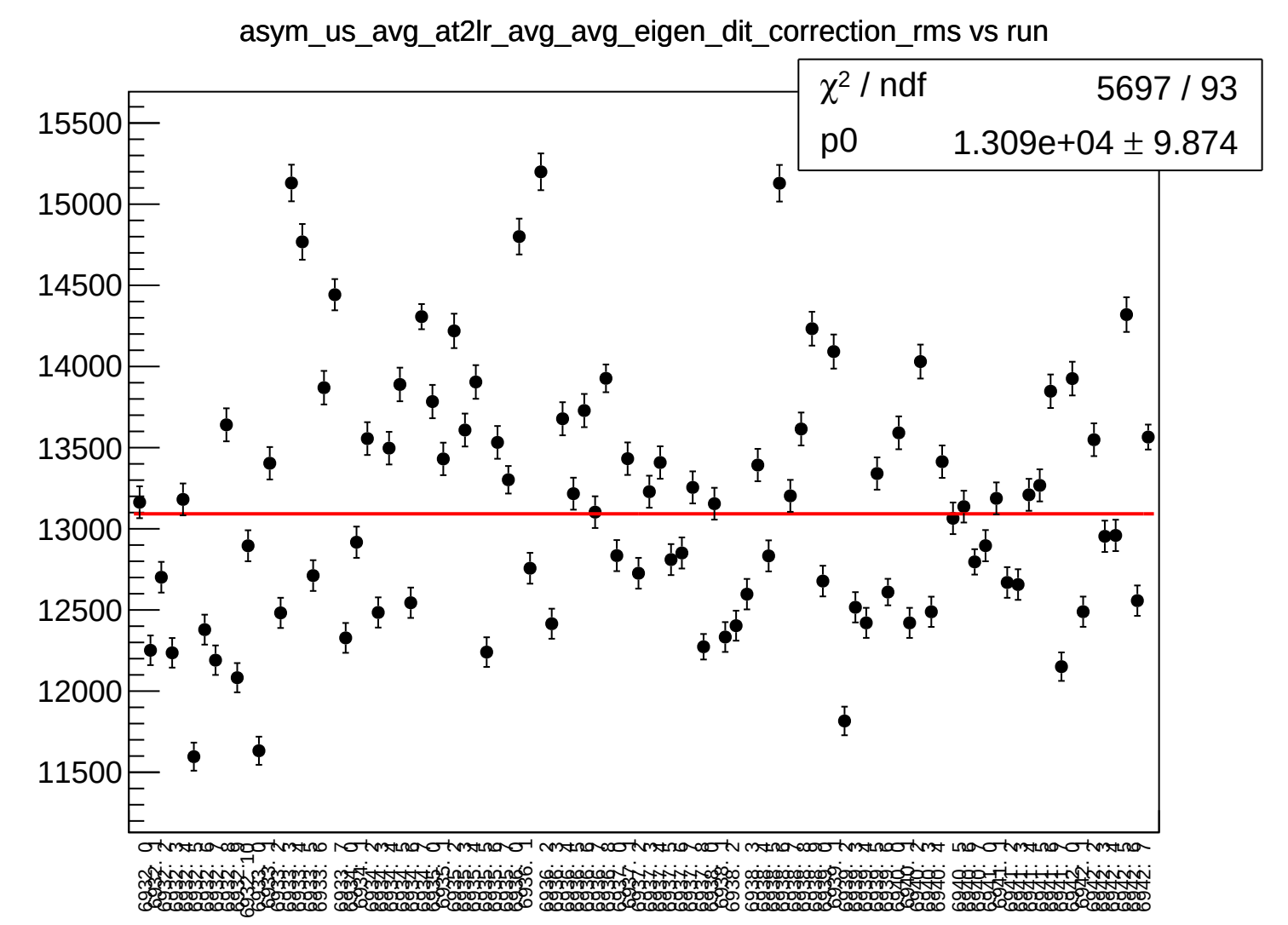

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.18 / 93
p0 −1405 ± 2505
pull
Entries 94
Mean 215.6
Std Dev 0

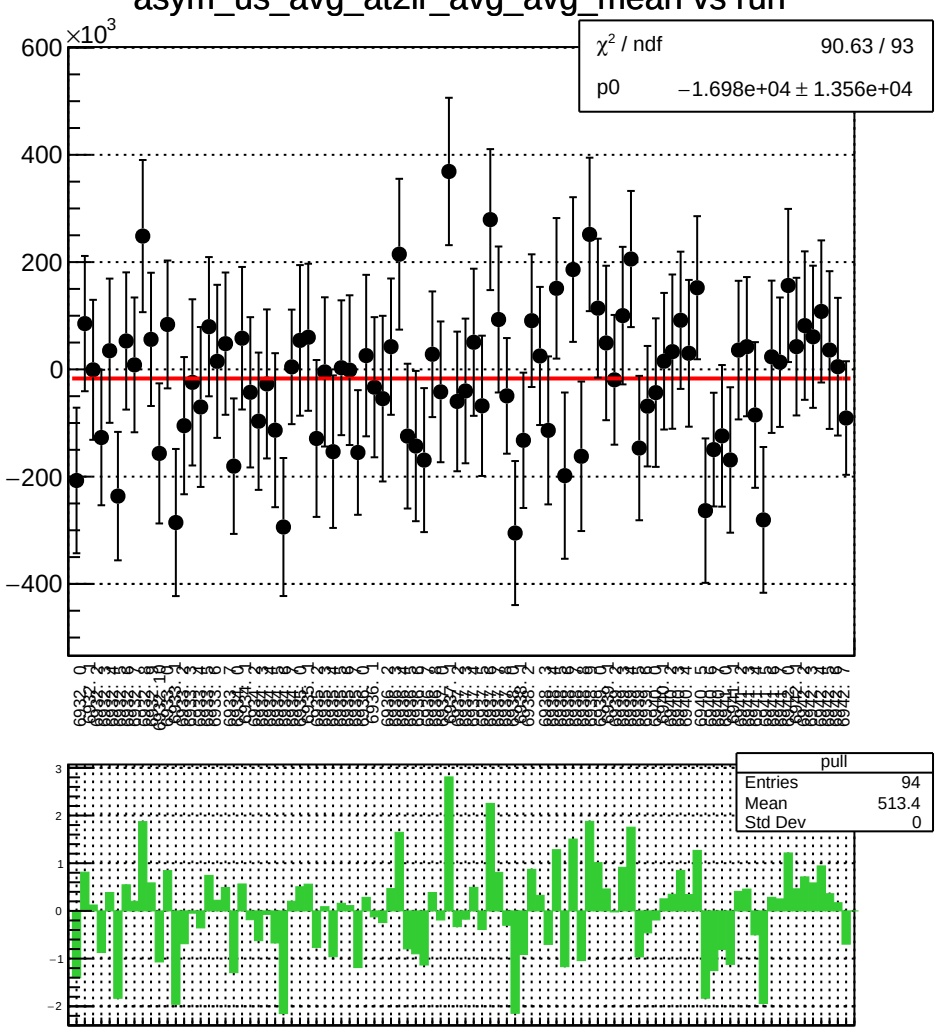

pull1D
Entries 94
Mean −0.005475
Std Dev 0.9293

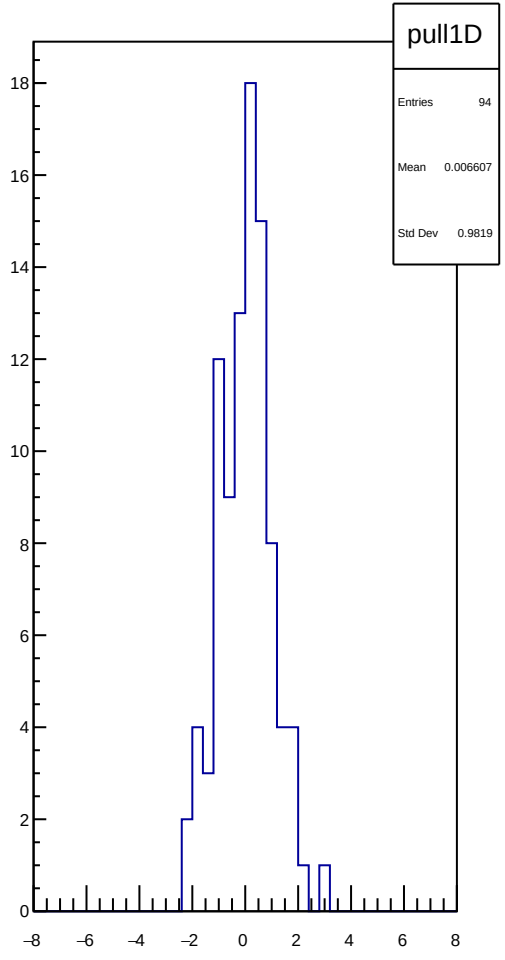

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 324 / 93
p0 2352 ± 1.771
2500
2450
2400
2350
2300

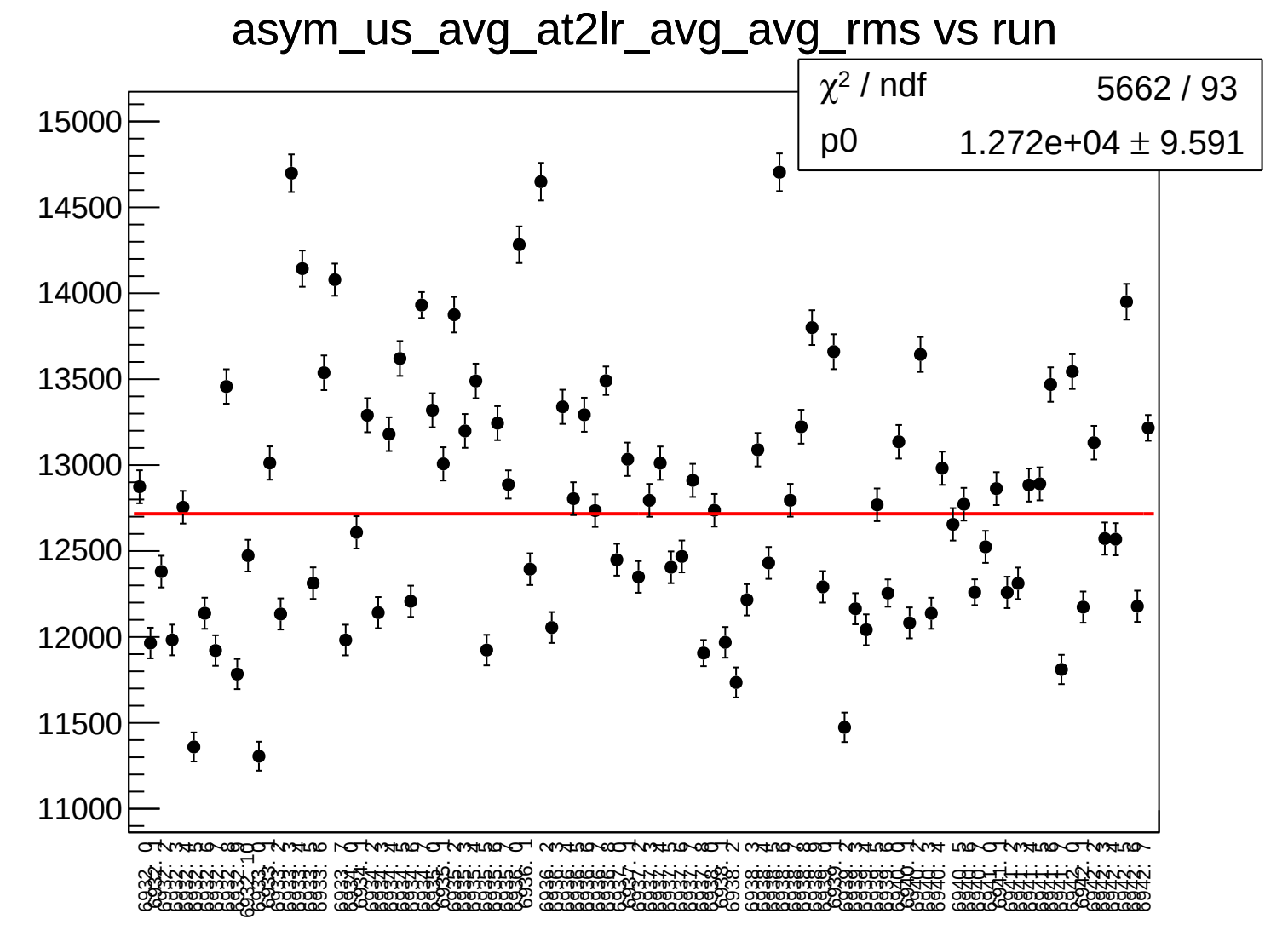

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.2 / 93
p0 1.567e+04 ± 1.396e+04
400
200
0
−200
−400
pull
Entries 94
Mean 463
Std Dev 0
2
1
0
−1
−2

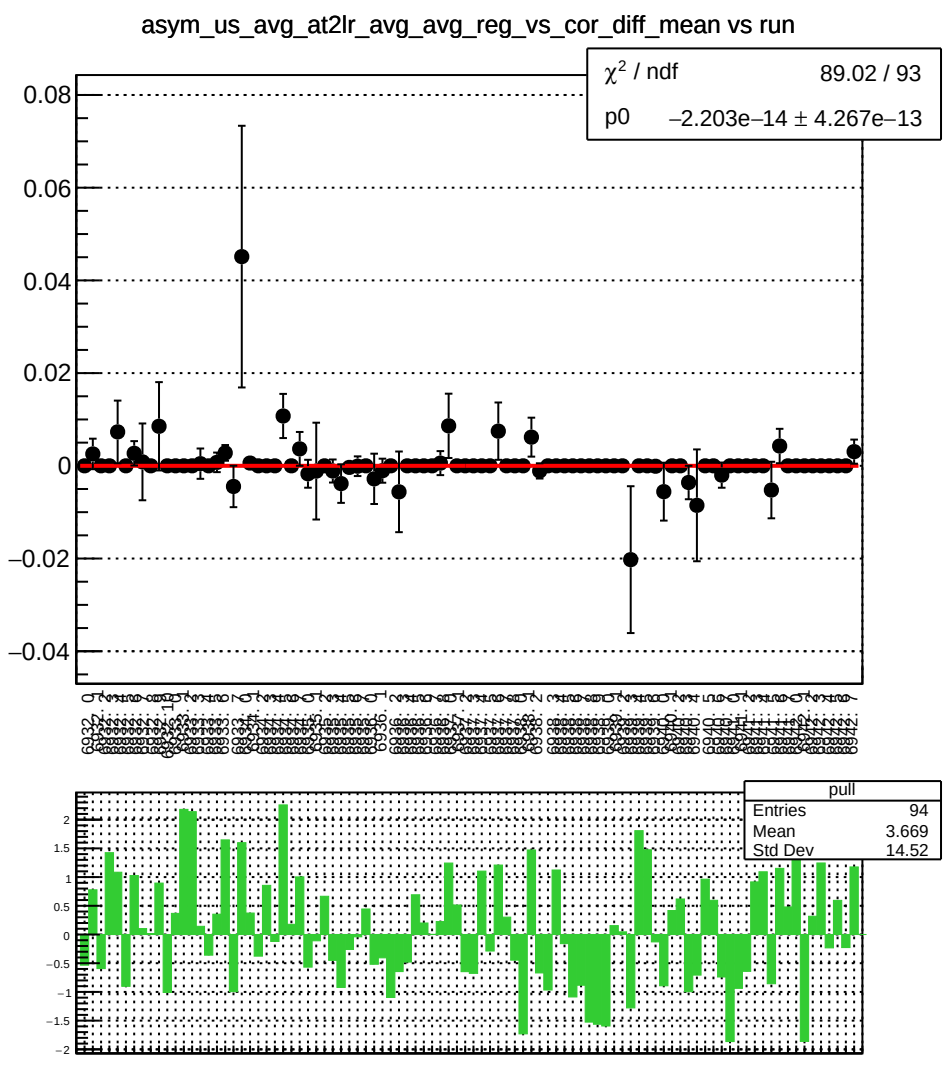

pull1D
Entries 94
Mean −0.007642
Std Dev 0.9576
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

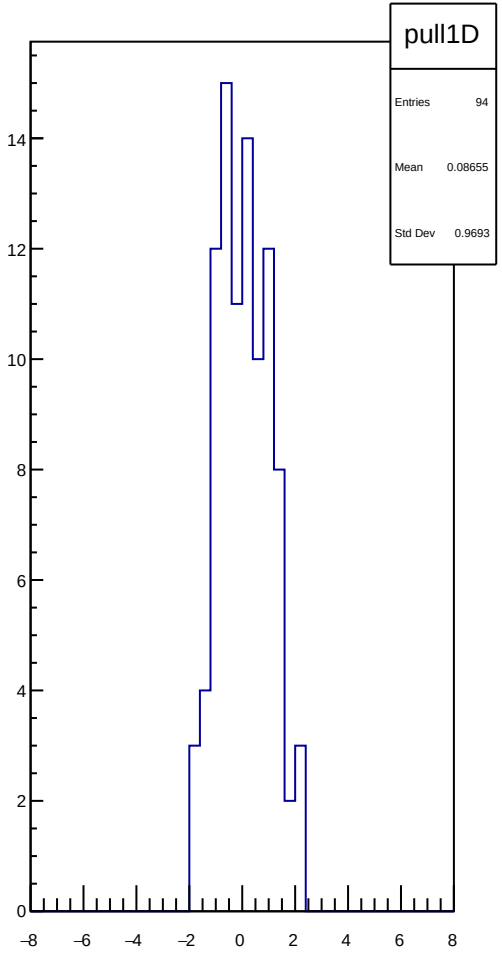

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5697 / 93
p0 1.309e+04 ± 9.874
15500
15000
14500
14000
13500
13000
12500
12000
11500

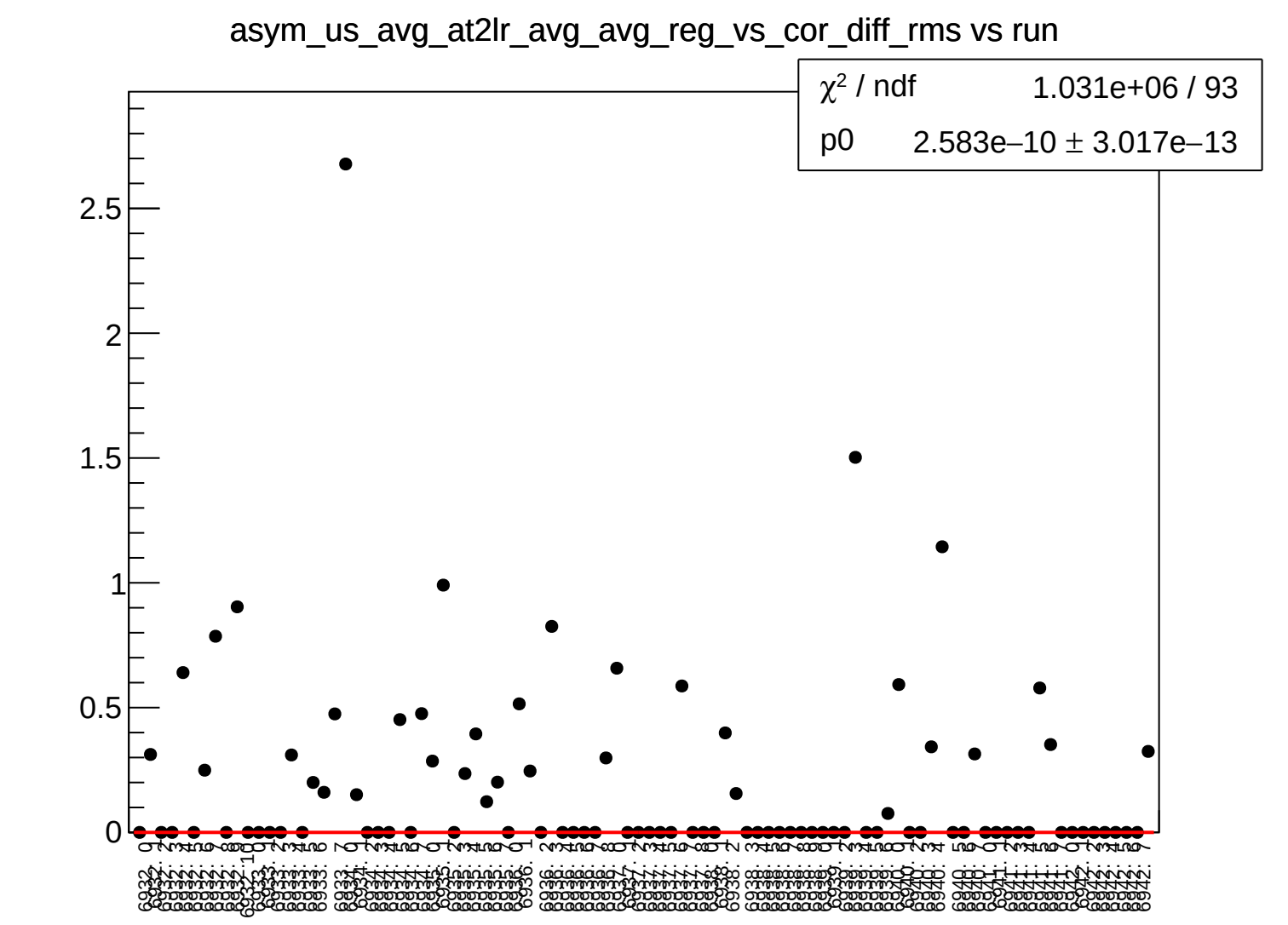

asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 90.63 / 93
p0 −1.698e+04 ± 1.356e+04
×10^3
600
400
200
0
−200
−400
pull
Entries 94
Mean 513.4
Std Dev 0
3
2
1
0
−1
−2

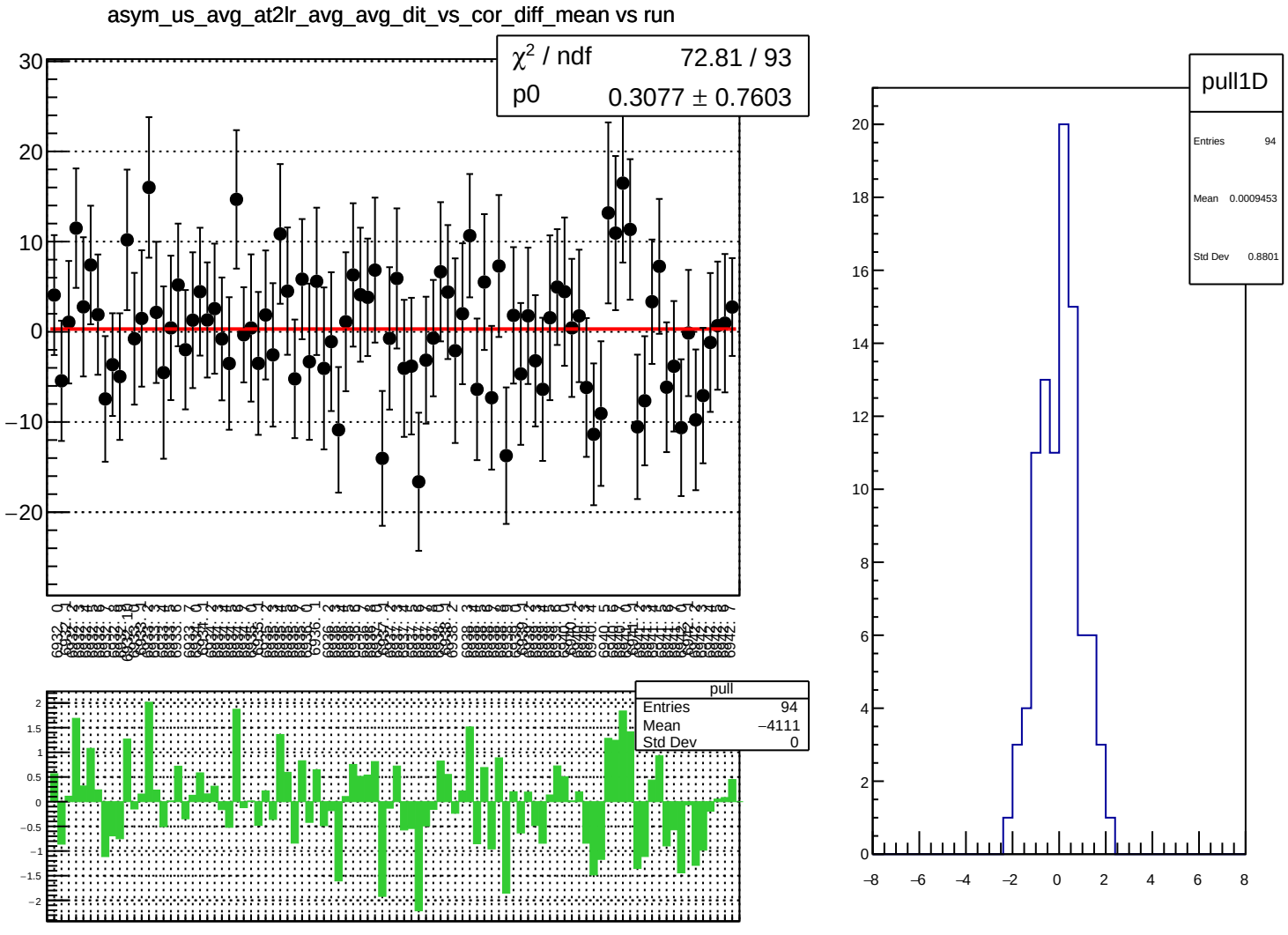

pull1D
Entries 94
Mean 0.006607
Std Dev 0.9819
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

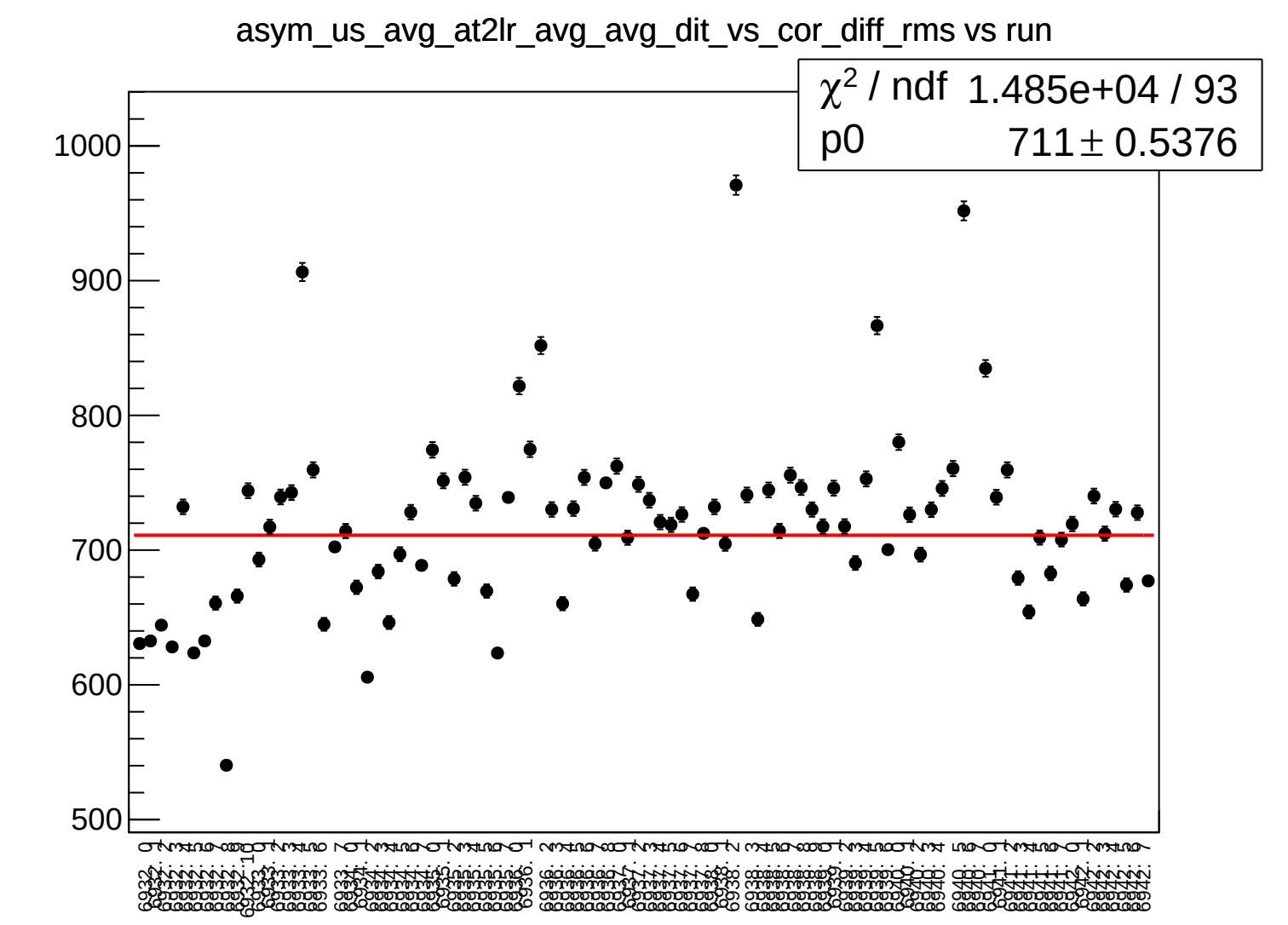

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 5662 / 93
p0 1.272e+04 ± 9.591
15000
14500
14000
13500
13000
12500
12000
11500
11000

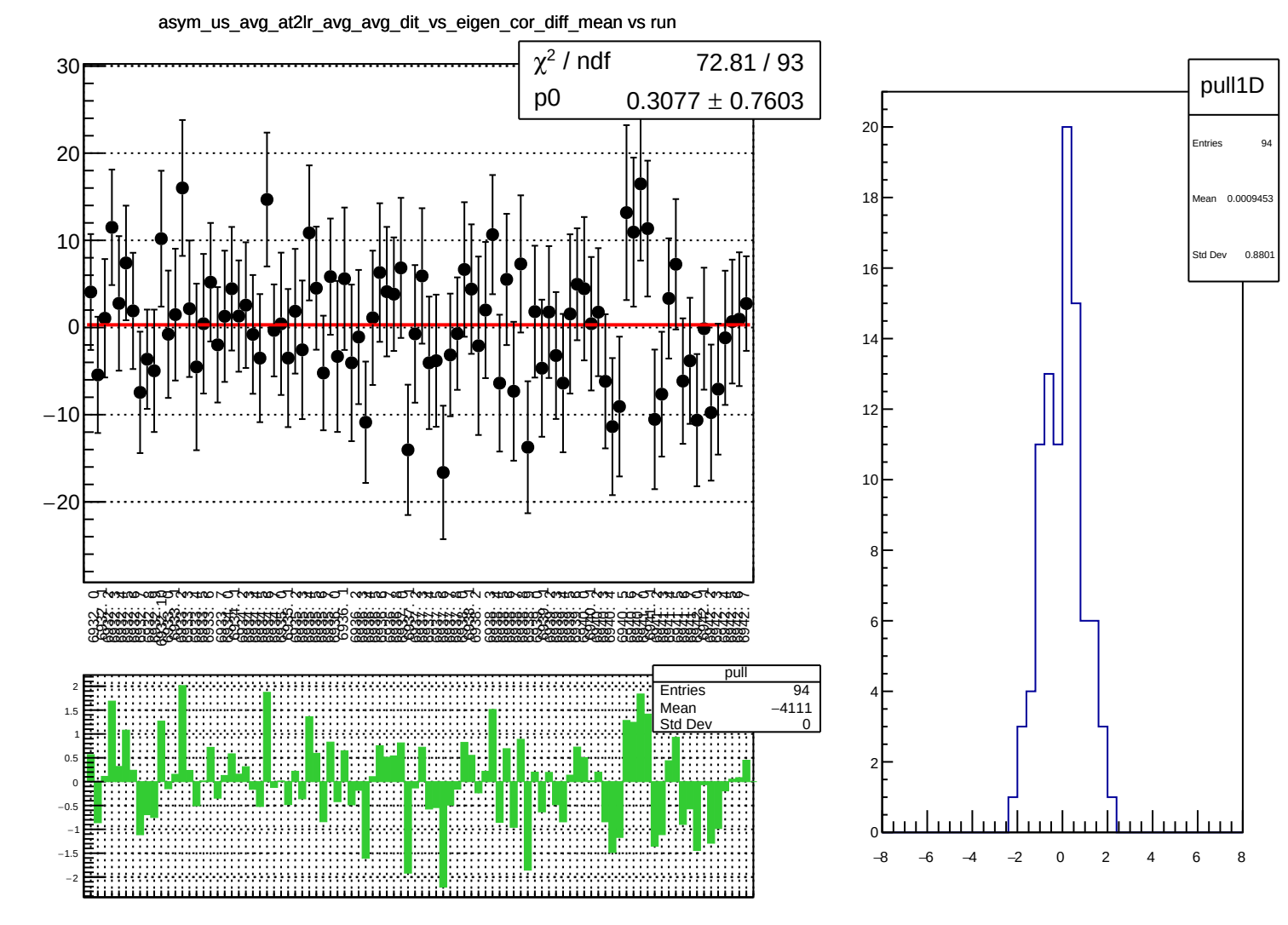

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.02 / 93
p0 −2.203e−14 ± 4.267e−13
pull
Entries 94
Mean 3.669
Std Dev 14.52

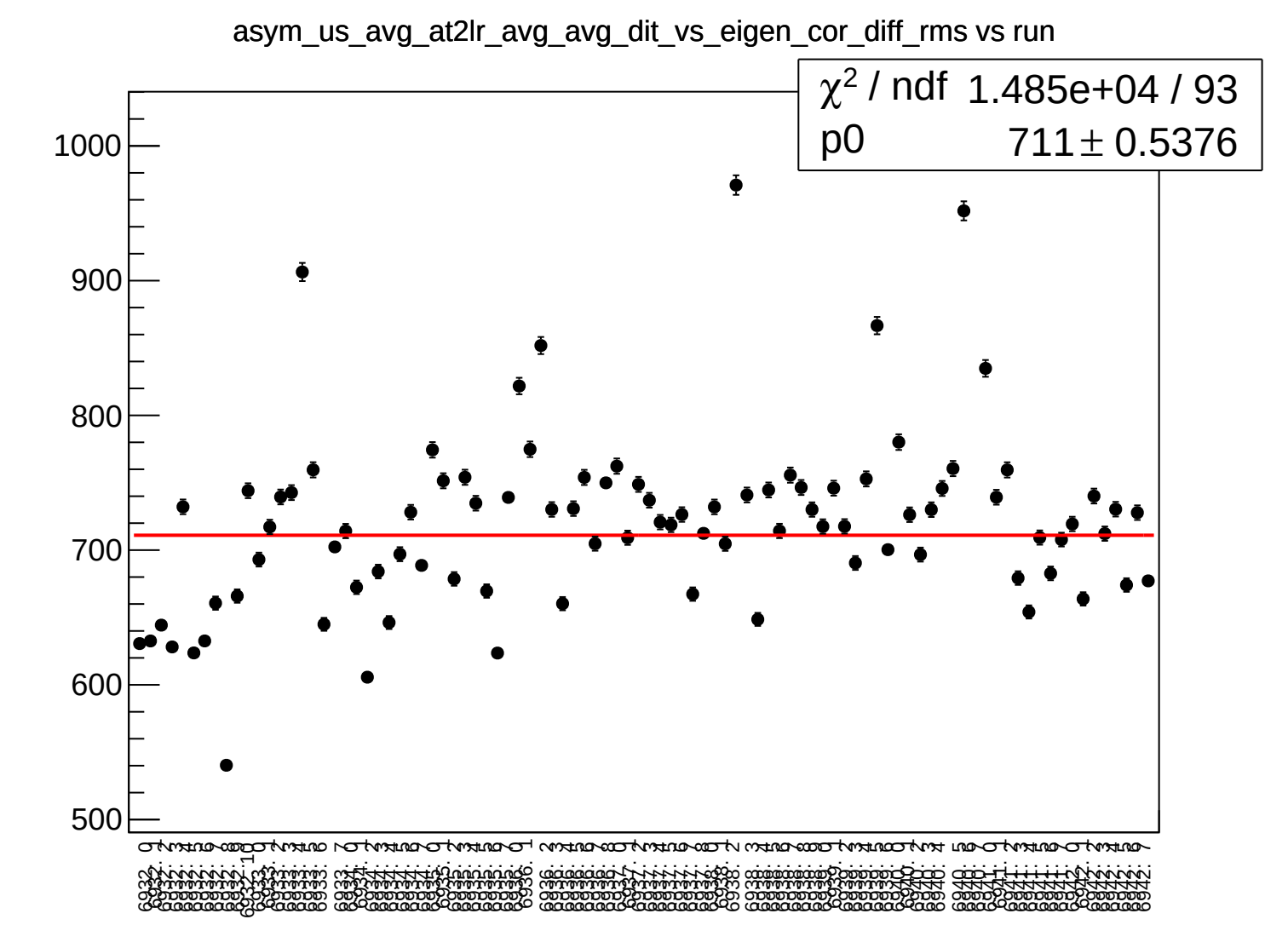

pull1D
Entries 94
Mean 0.08655
Std Dev 0.9693

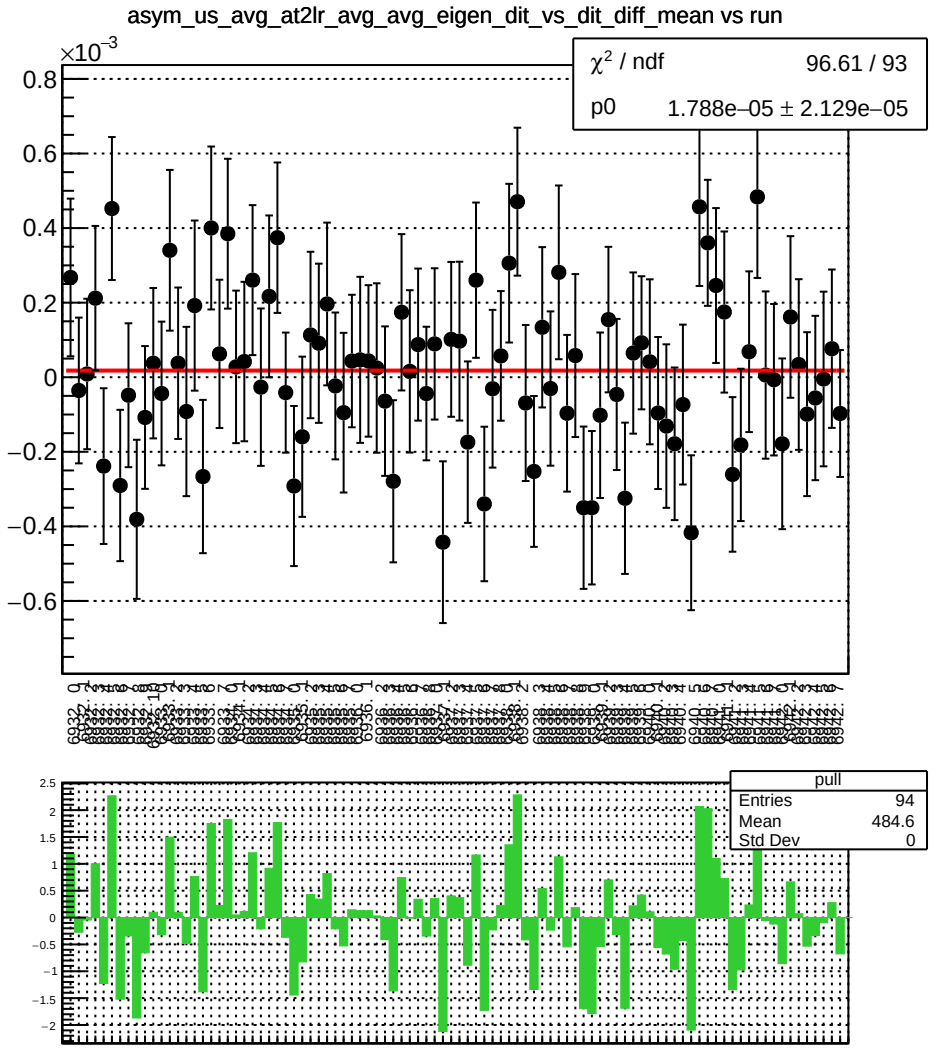

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.031e+06 / 93
p0 2.583e−10 ± 3.017e−13
2.5
2
1.5
1
0.5
0

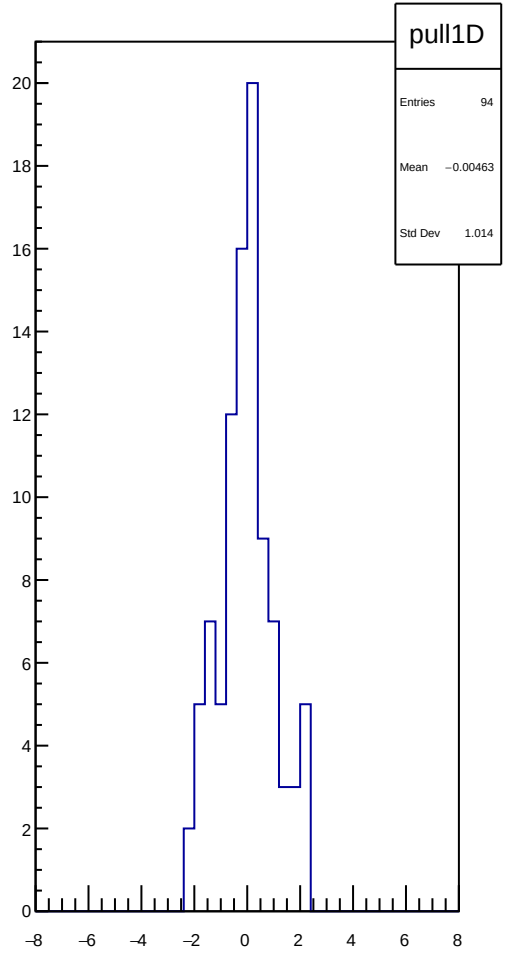

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.3077 ± 0.7603
pull
Entries 94
Mean −4111
Std Dev 0
pull1D
Entries 94
Mean 0.0009453
Std Dev 0.8801

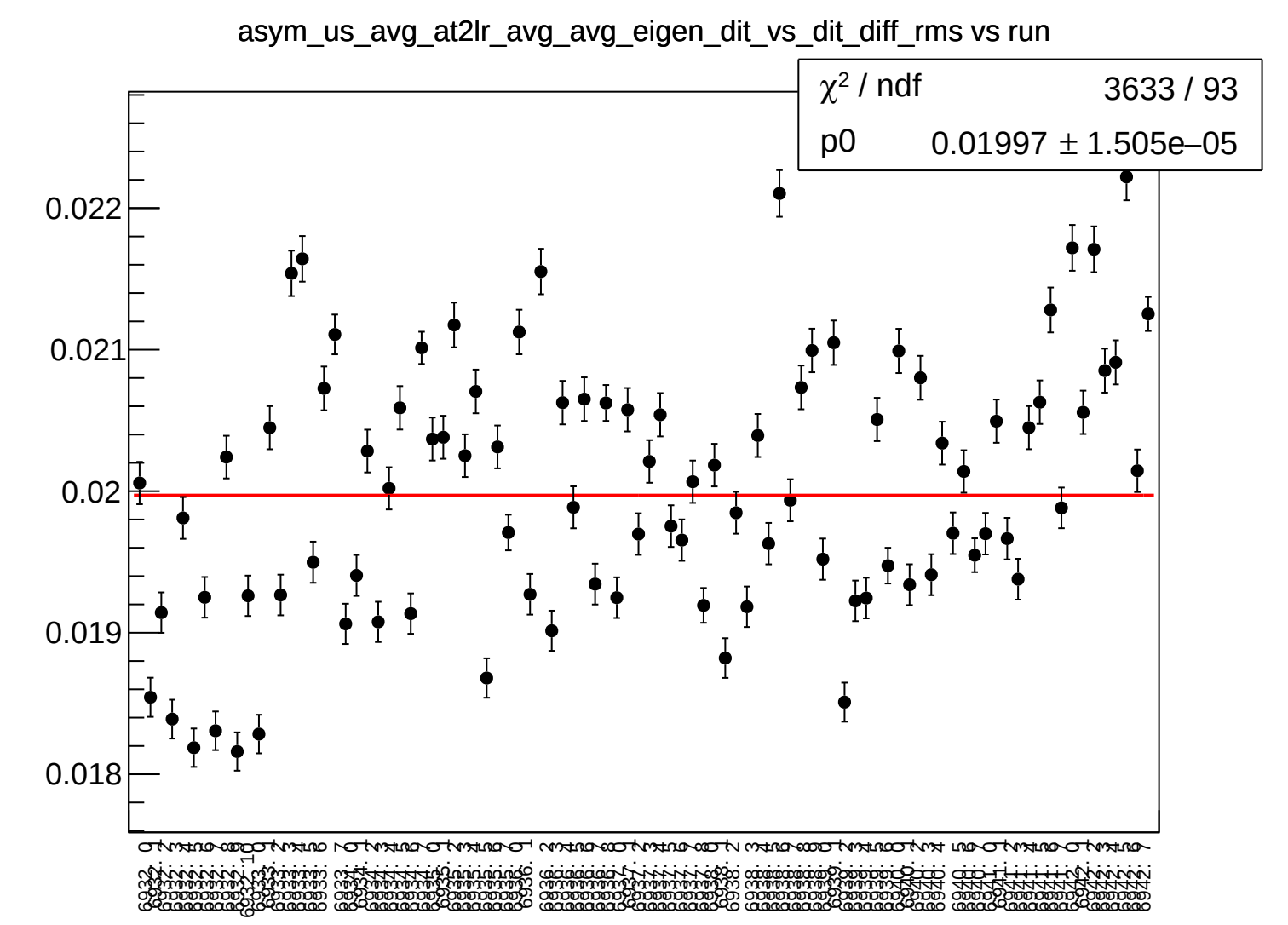

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.485e+04 / 93
p0 711 ± 0.5376
1000
900
800
700
600
500

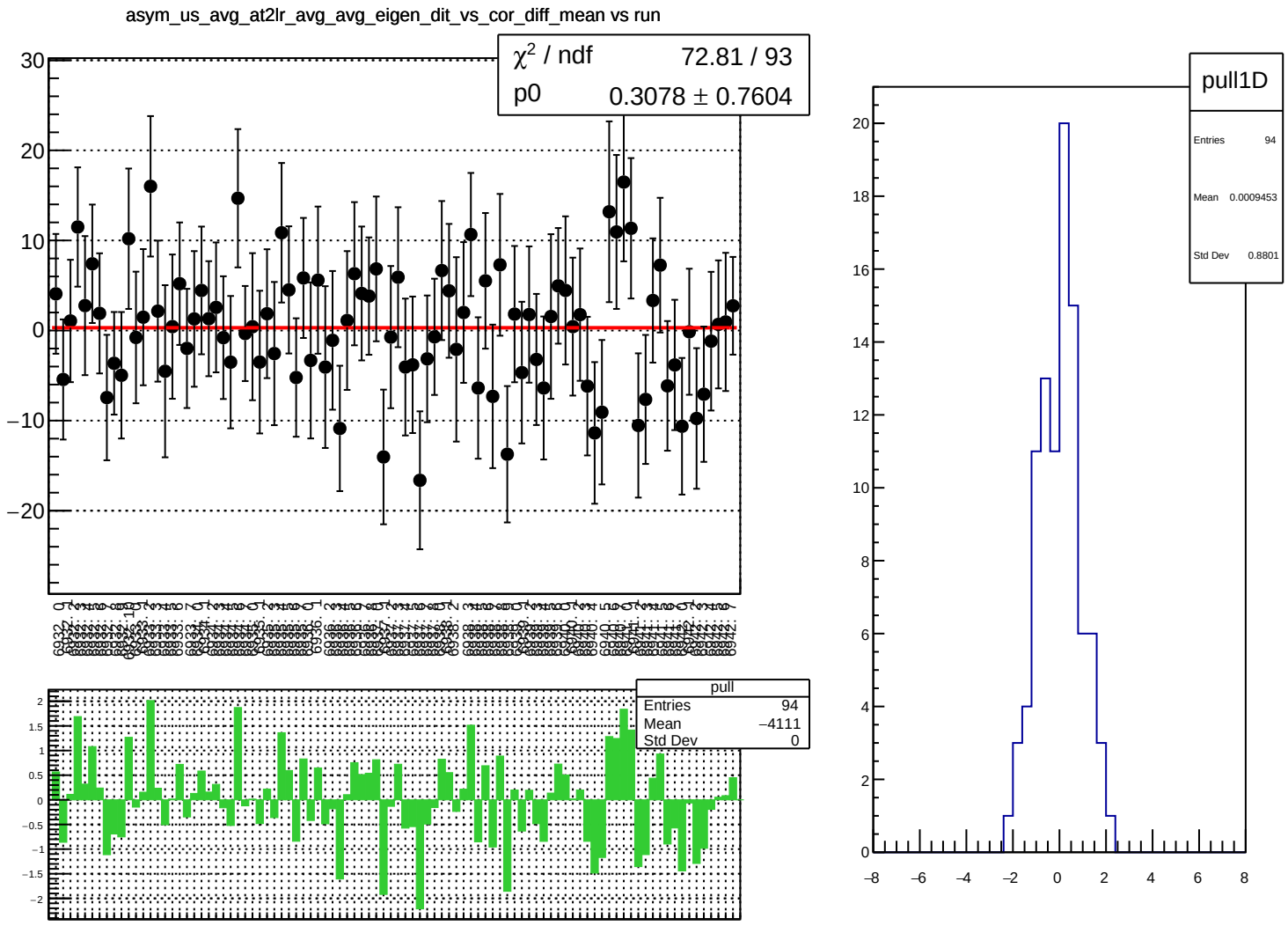

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.3077 ± 0.7603
pull
Entries 94
Mean −4111
Std Dev 0
pull1D
Entries 94
Mean 0.0009453
Std Dev 0.8801

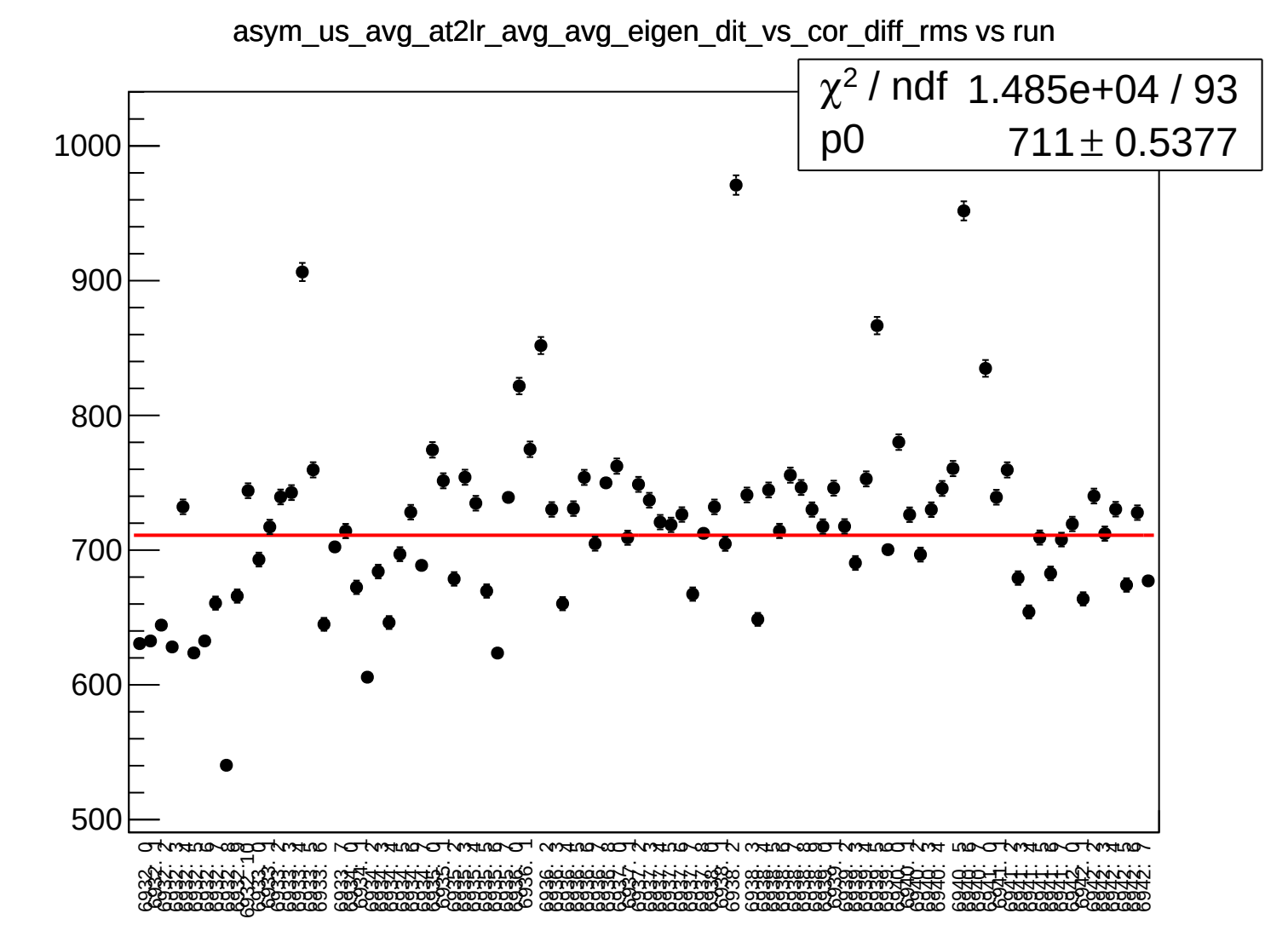

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.485e+04 / 93
p0 711 ± 0.5376
1000
900
800
700
600
500

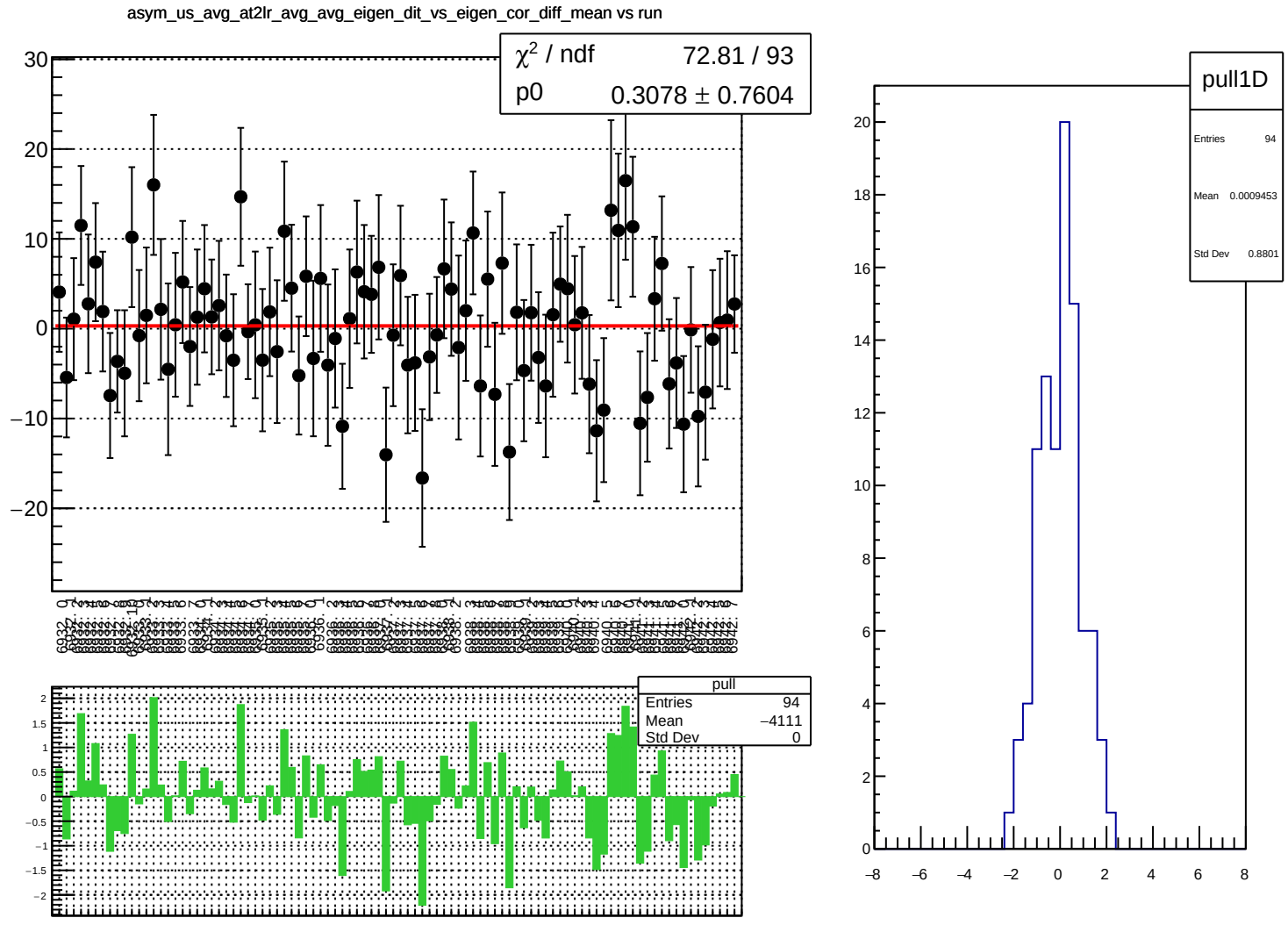

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.61 / 93
p0 1.788e−05 ± 2.129e−05
pull
Entries 94
Mean 484.6
Std Dev 0

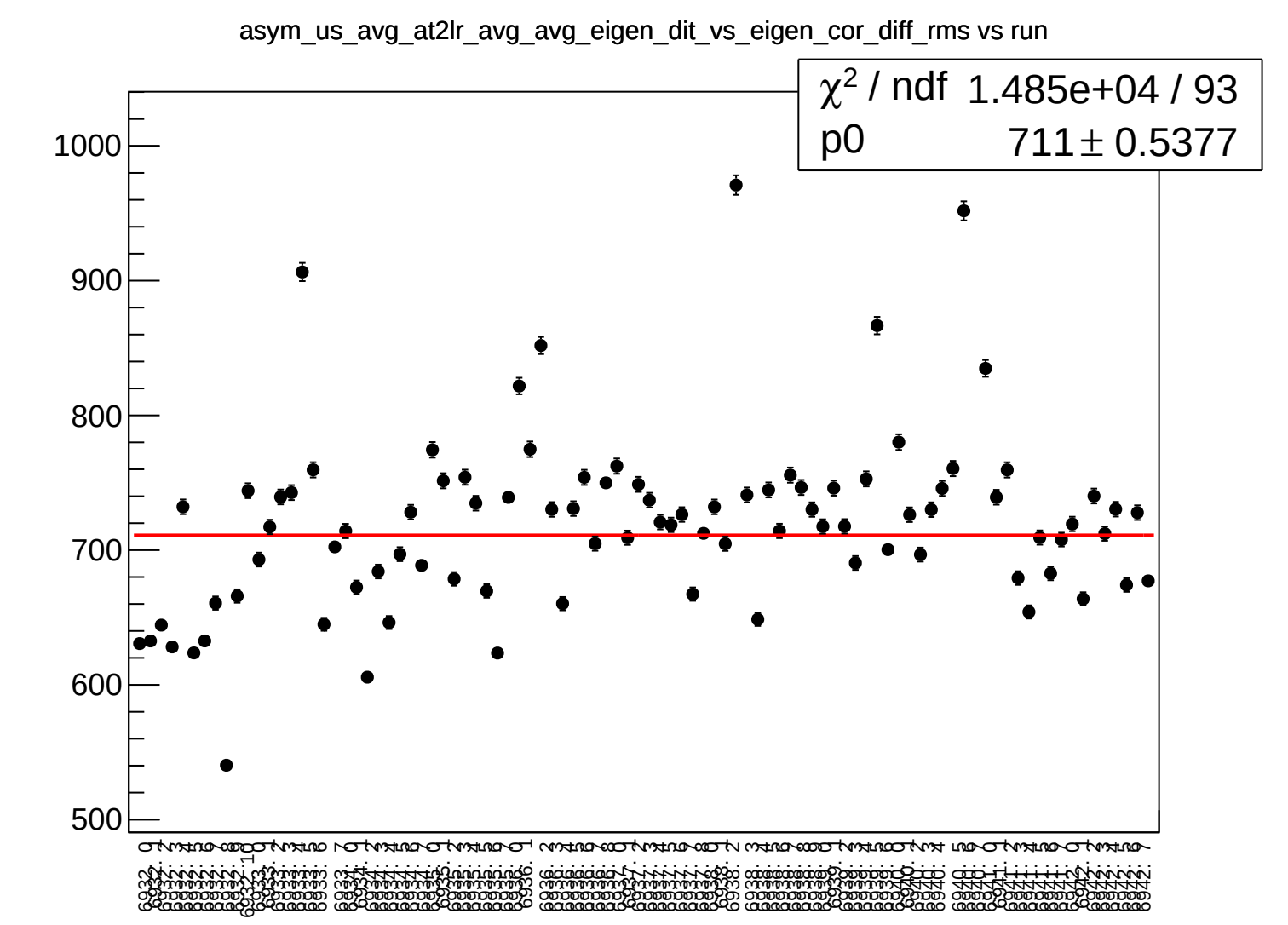

pull1D
Entries 94
Mean −0.00463
Std Dev 1.014

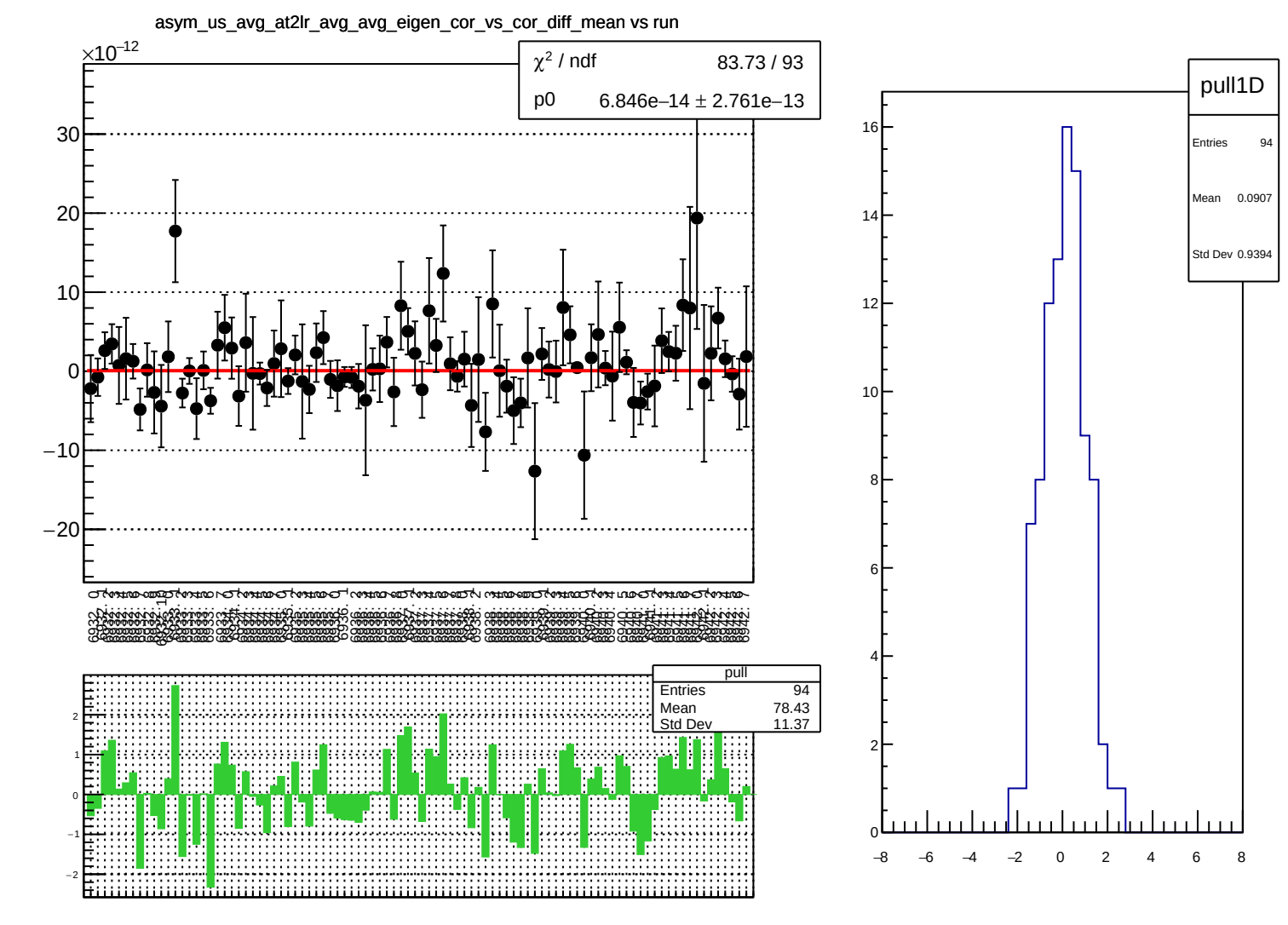

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3633 / 93
p0 0.01997 ± 1.505e−05
0.022
0.021
0.02
0.019
0.018

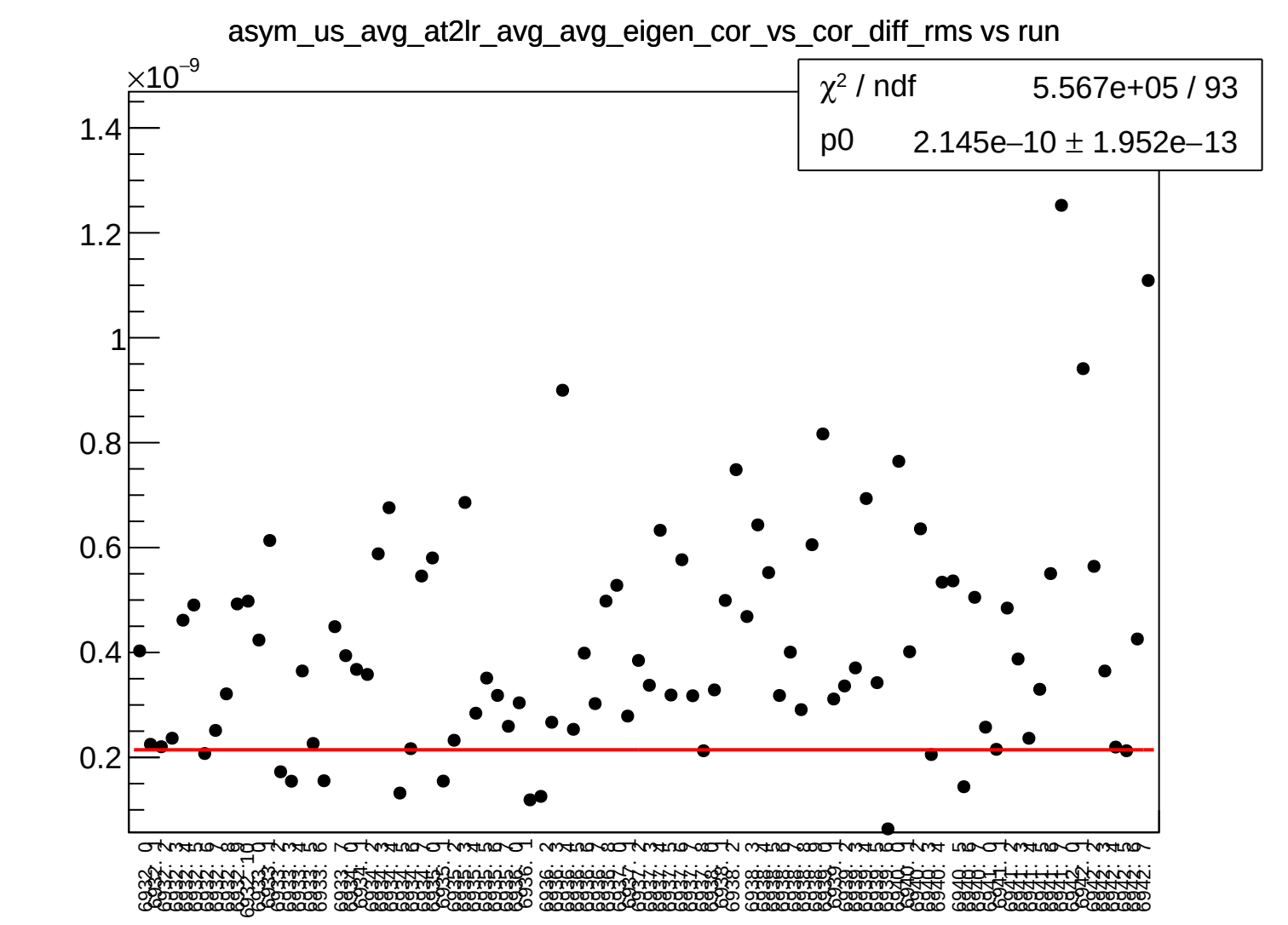

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.3078 ± 0.7604
pull
Entries 94
Mean −4111
Std Dev 0
pull1D
Entries 94
Mean 0.0009453
Std Dev 0.8801

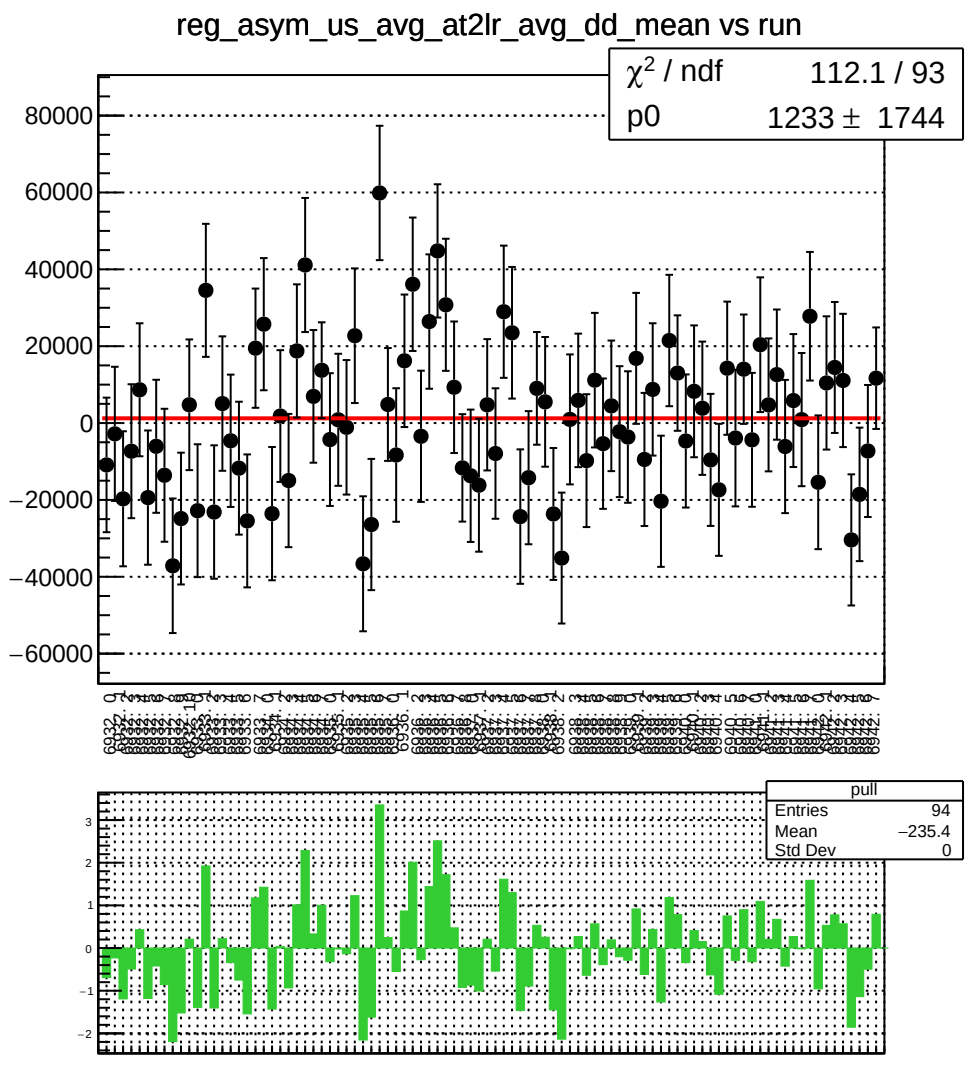

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.485e+04 / 93
p0 711 ± 0.5377
1000
900
800
700
600
500

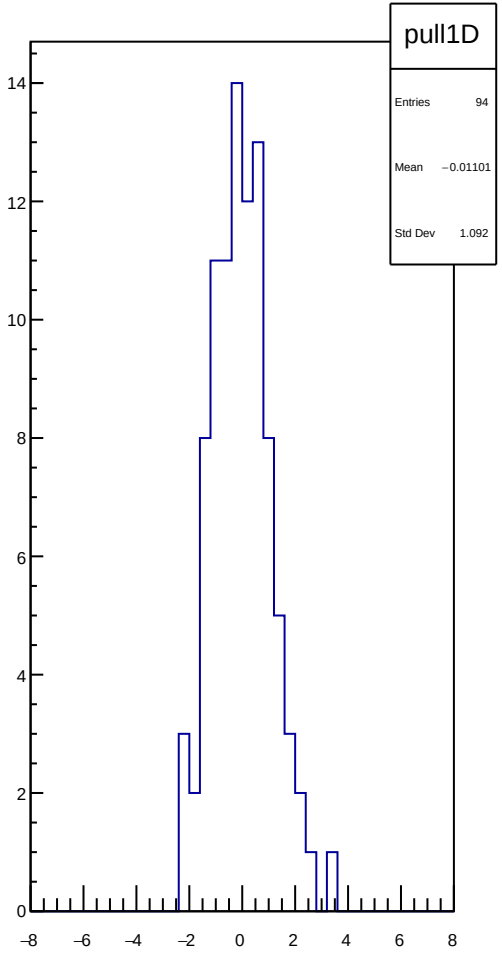

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.81 / 93
p0 0.3078 ± 0.7604
pull
Entries 94
Mean −4111
Std Dev 0
pull1D
Entries 94
Mean 0.0009453
Std Dev 0.8801

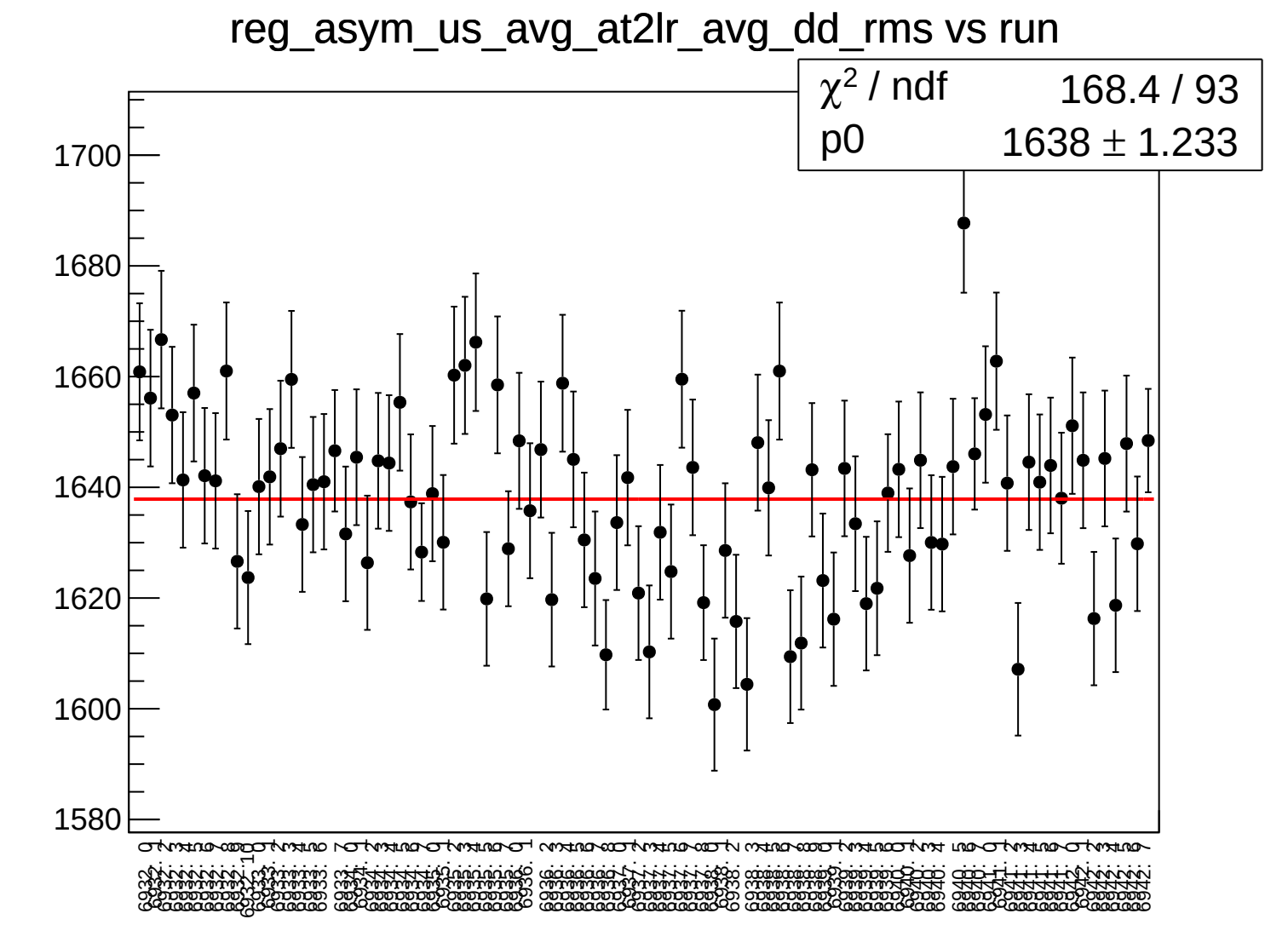

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.485e+04 / 93
p0 711 ± 0.5377
1000
900
800
700
600
500

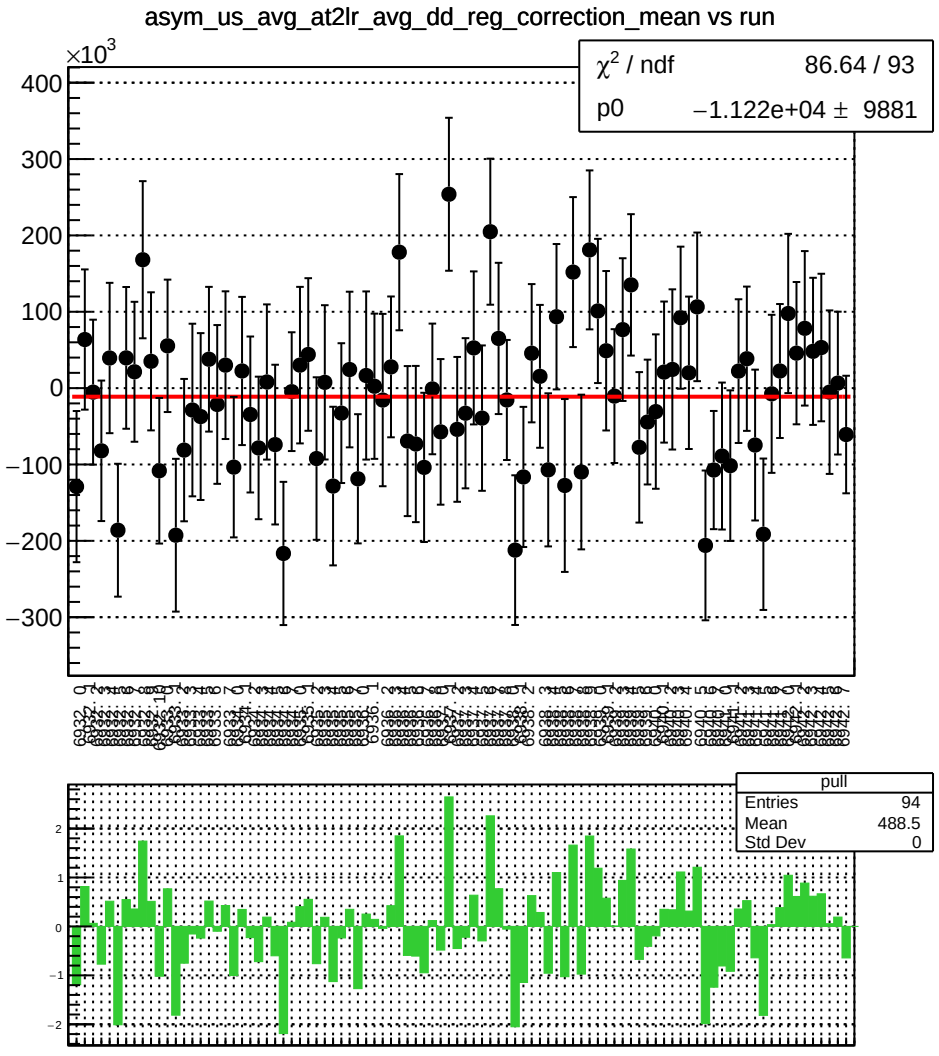

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.73 / 93
p0 6.846e−14 ± 2.761e−13
30
20
10
0
−10
−20
pull
Entries 94
Mean 78.43
Std Dev 11.37
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0907
Std Dev 0.9394
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

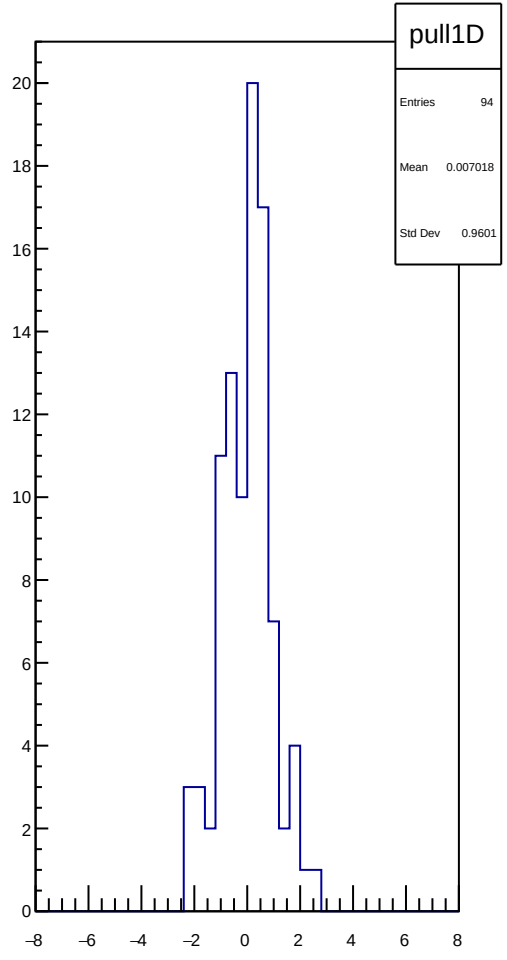

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.567e+05 / 93
p0 2.145e−10 ± 1.952e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

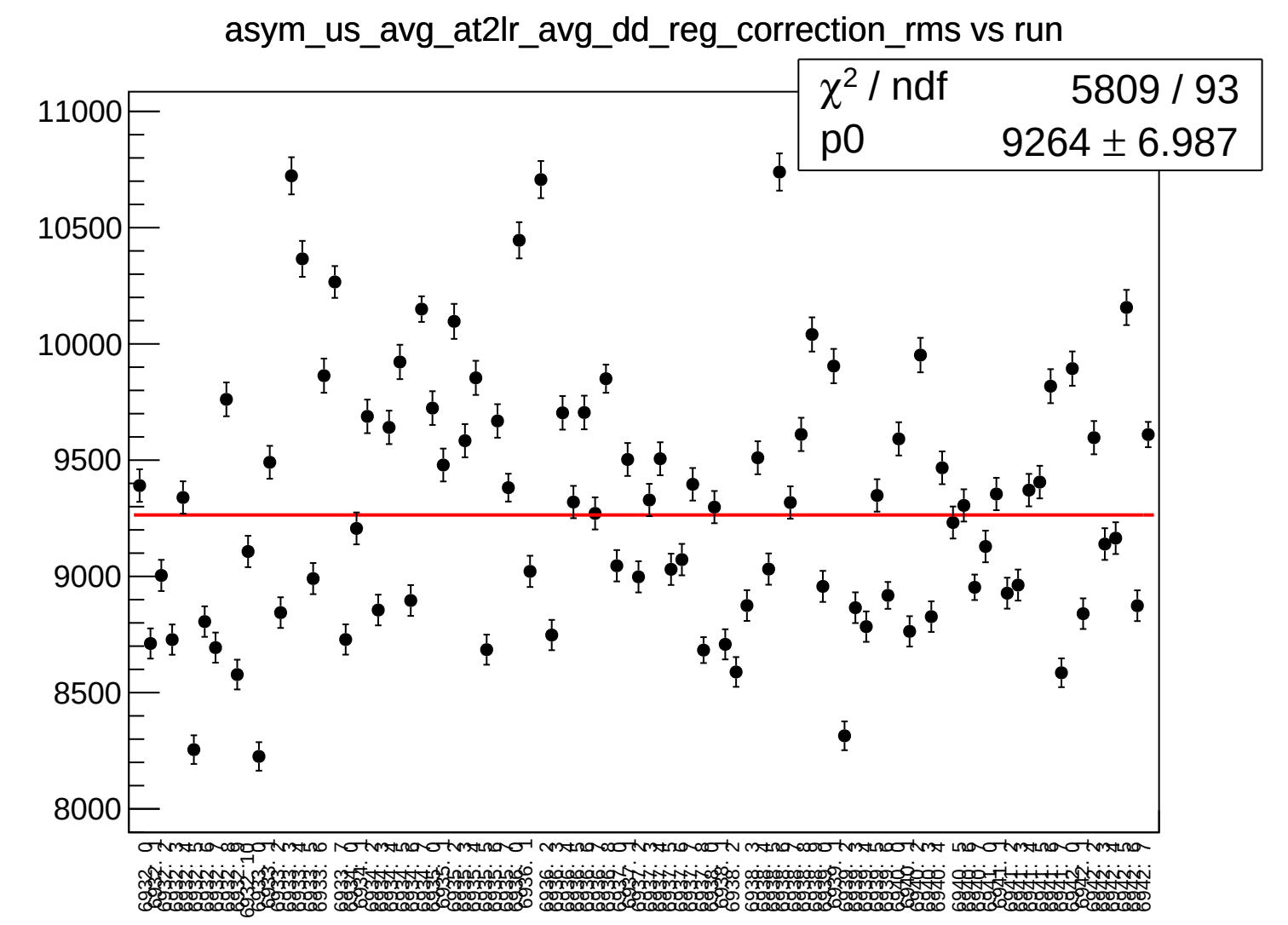

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 112.1 / 93
p0 1233 ± 1744
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −235.4
Std Dev 0
3
2
1
0
−1
−2

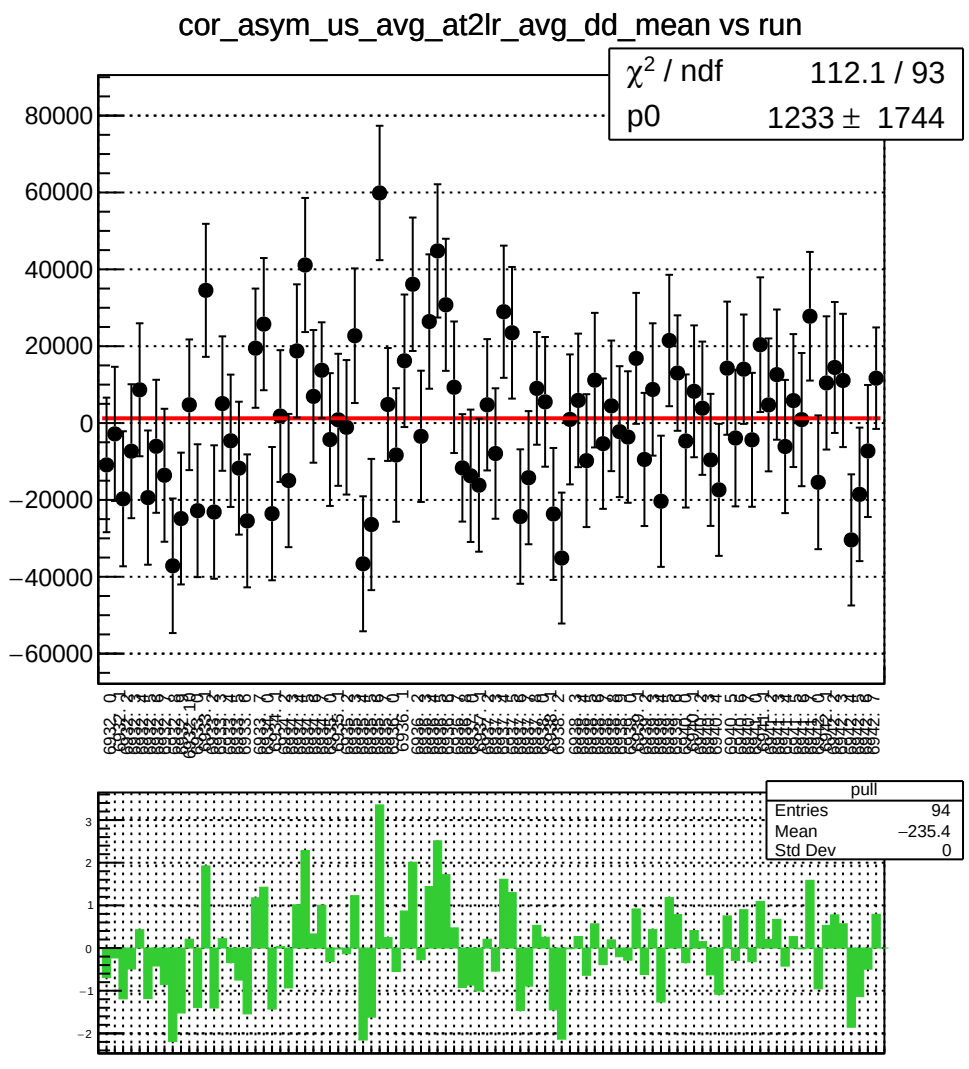

pull1D
Entries 94
Mean −0.01101
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

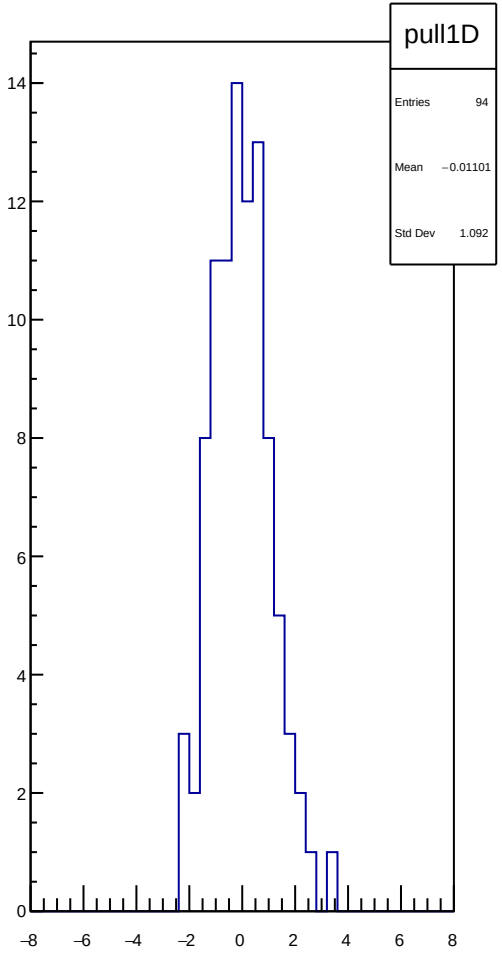

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1638 ± 1.233
1700
1680
1660
1640
1620
1600
1580

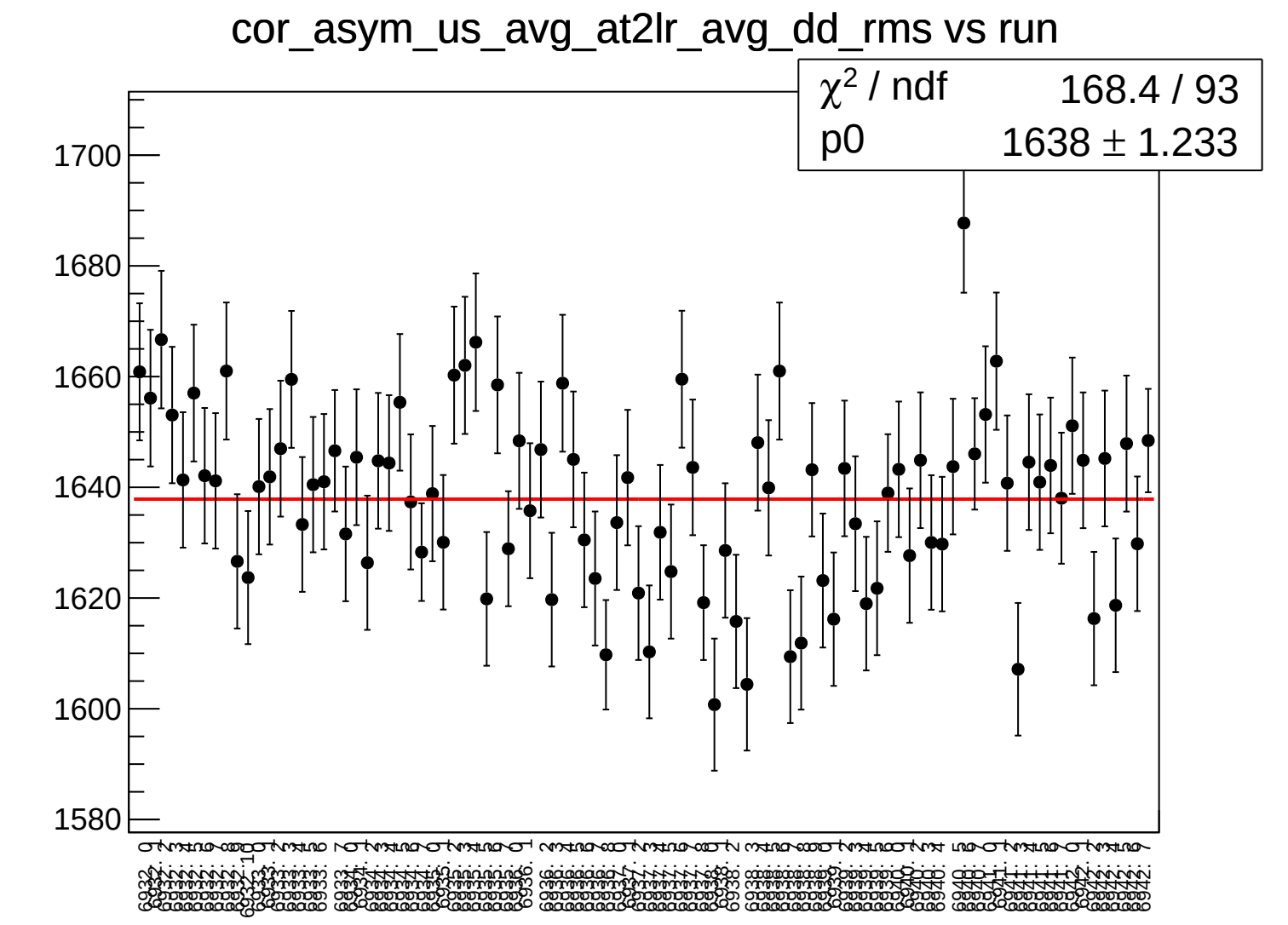

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.64 / 93
p0 −1.122e+04 ± 9881
pull
Entries 94
Mean 488.5
Std Dev 0

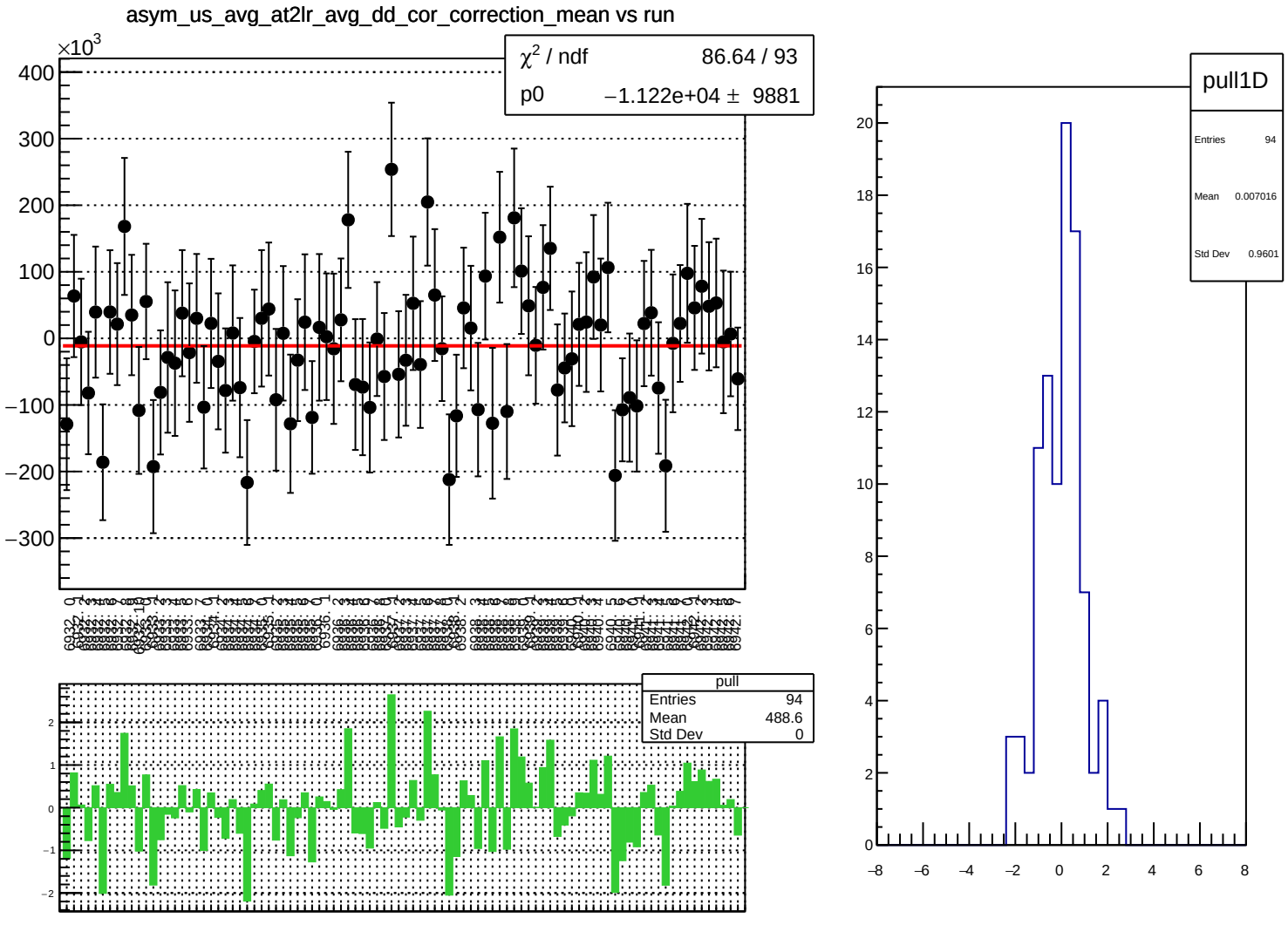

pull1D
Entries 94
Mean 0.007018
Std Dev 0.9601

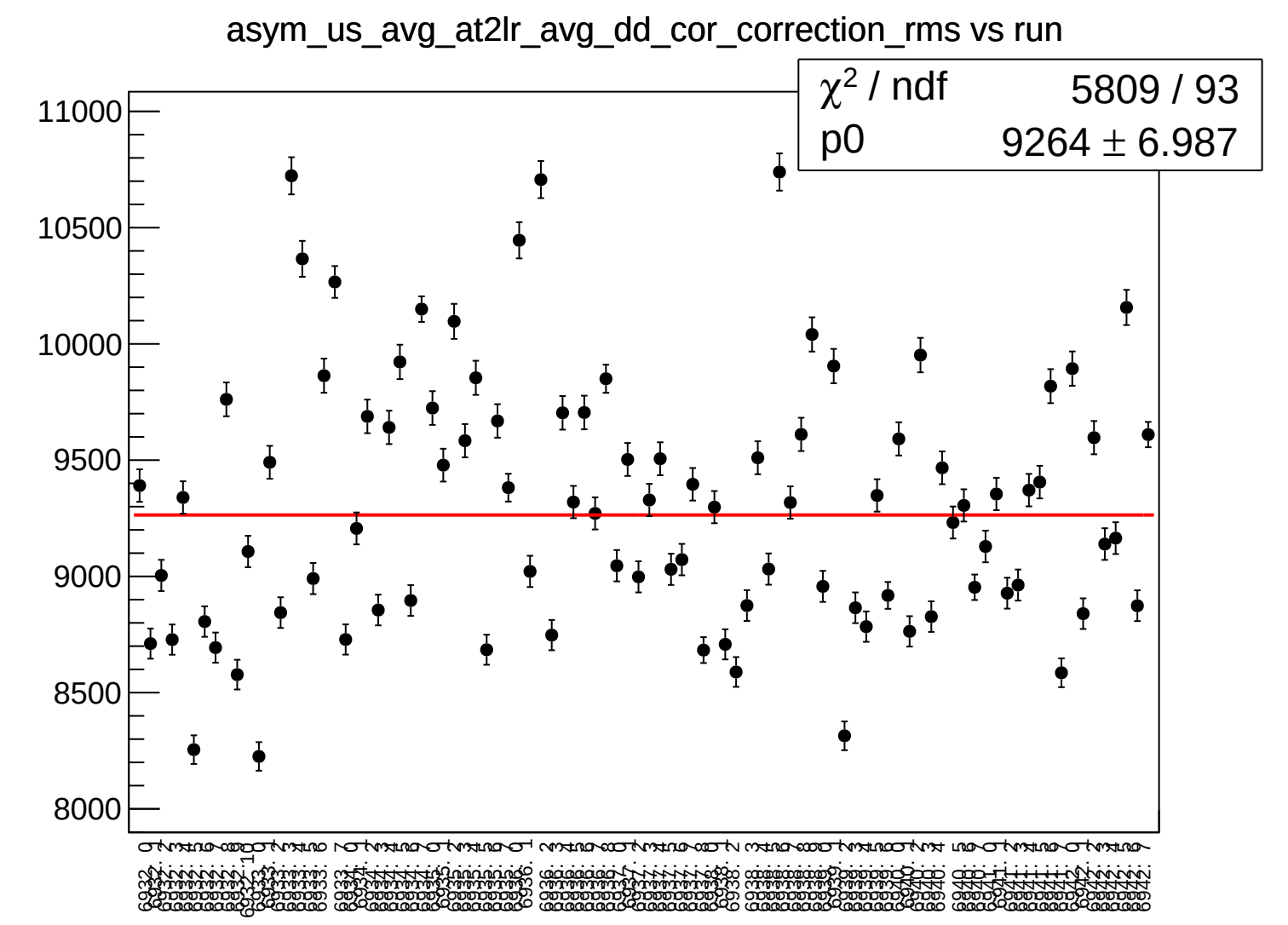

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5809 / 93
p0 9264 ± 6.987
11000
10500
10000
9500
9000
8500
8000

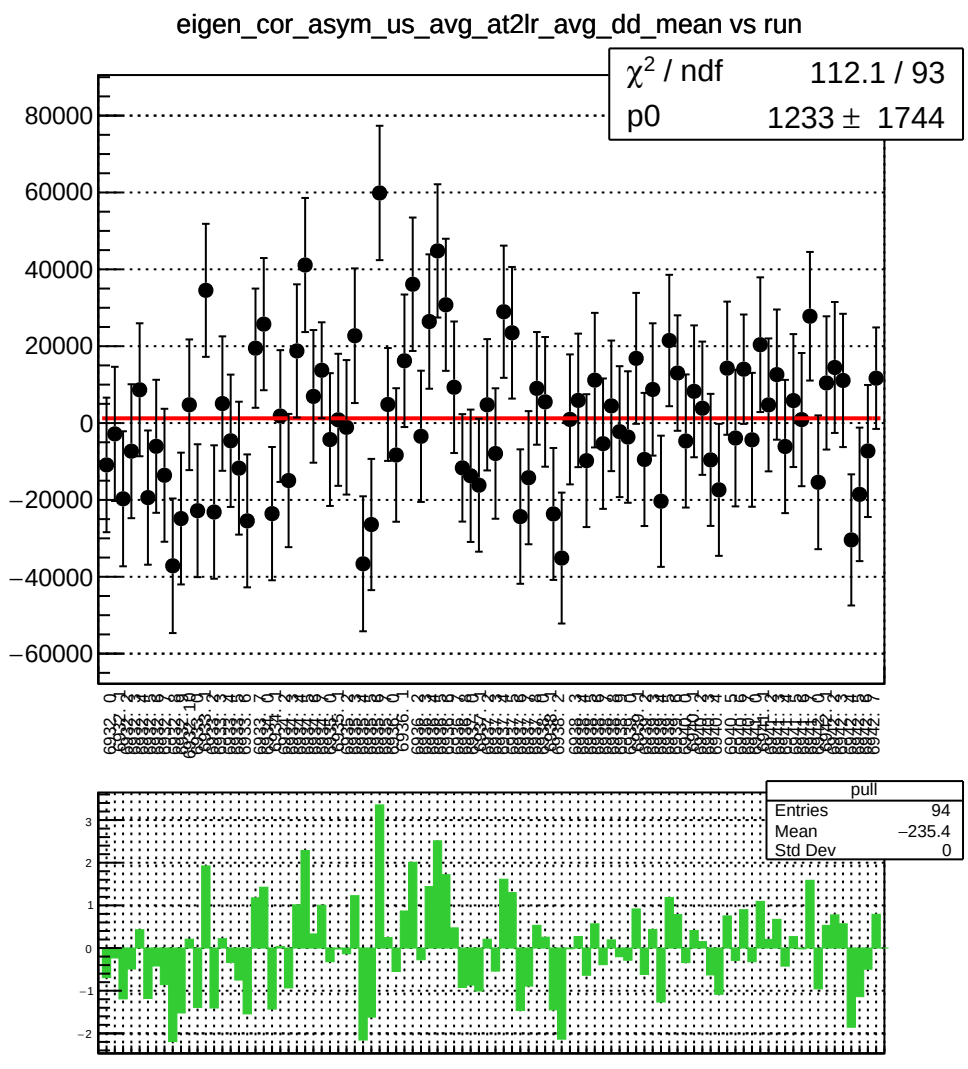

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 112.1 / 93
p0 1233 ± 1744
pull
Entries 94
Mean −235.4
Std Dev 0

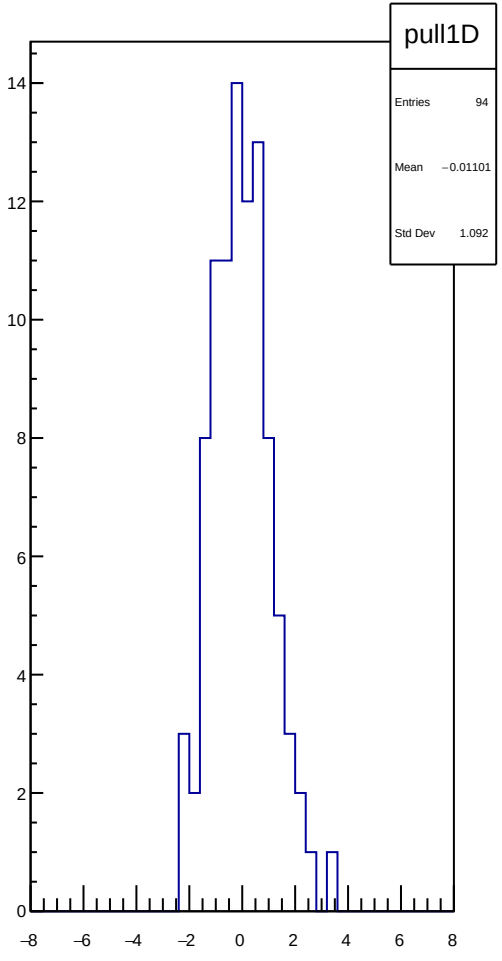

pull1D
Entries 94
Mean −0.01101
Std Dev 1.092

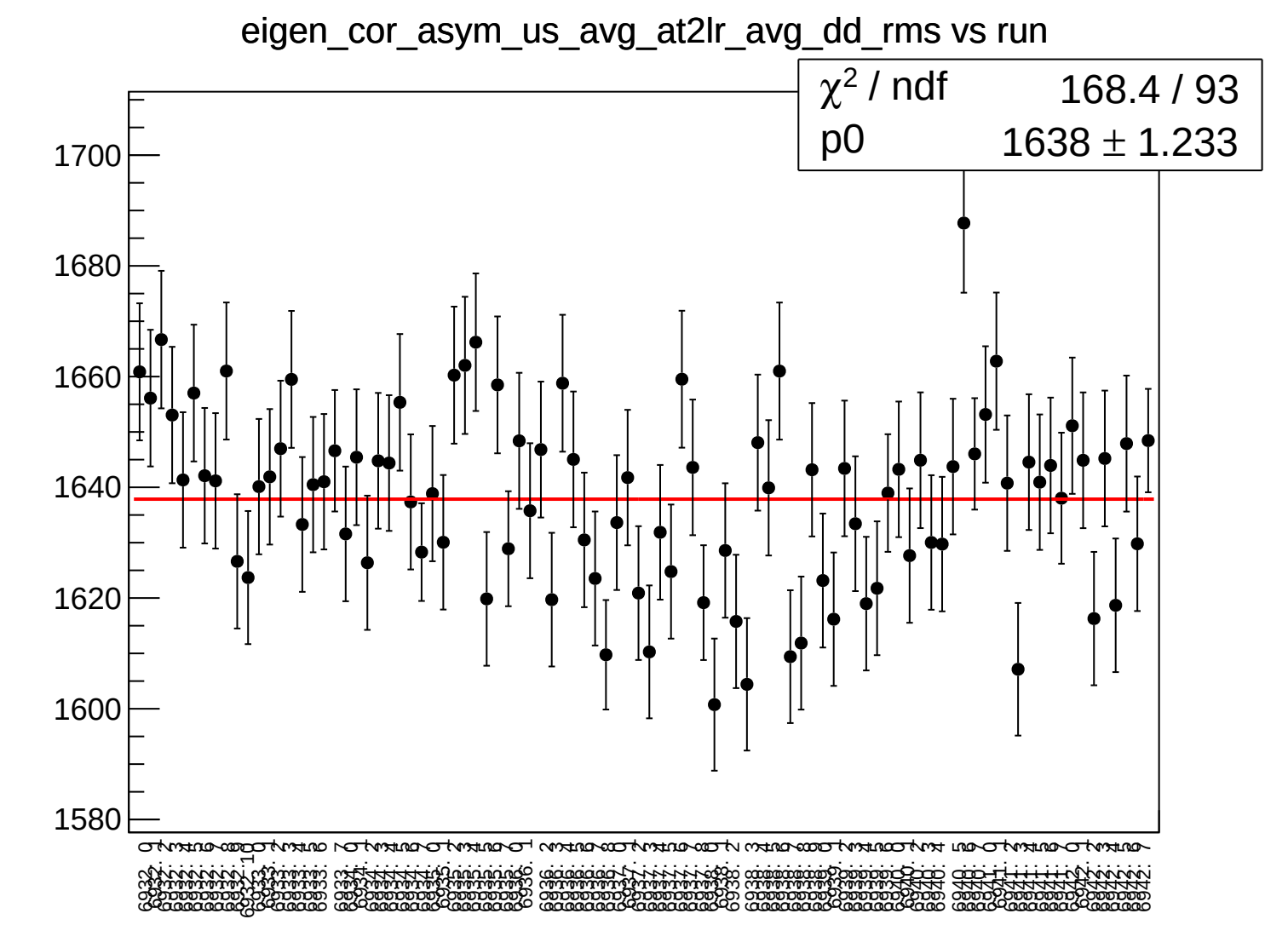

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1638 ± 1.233
1700
1680
1660
1640
1620
1600
1580

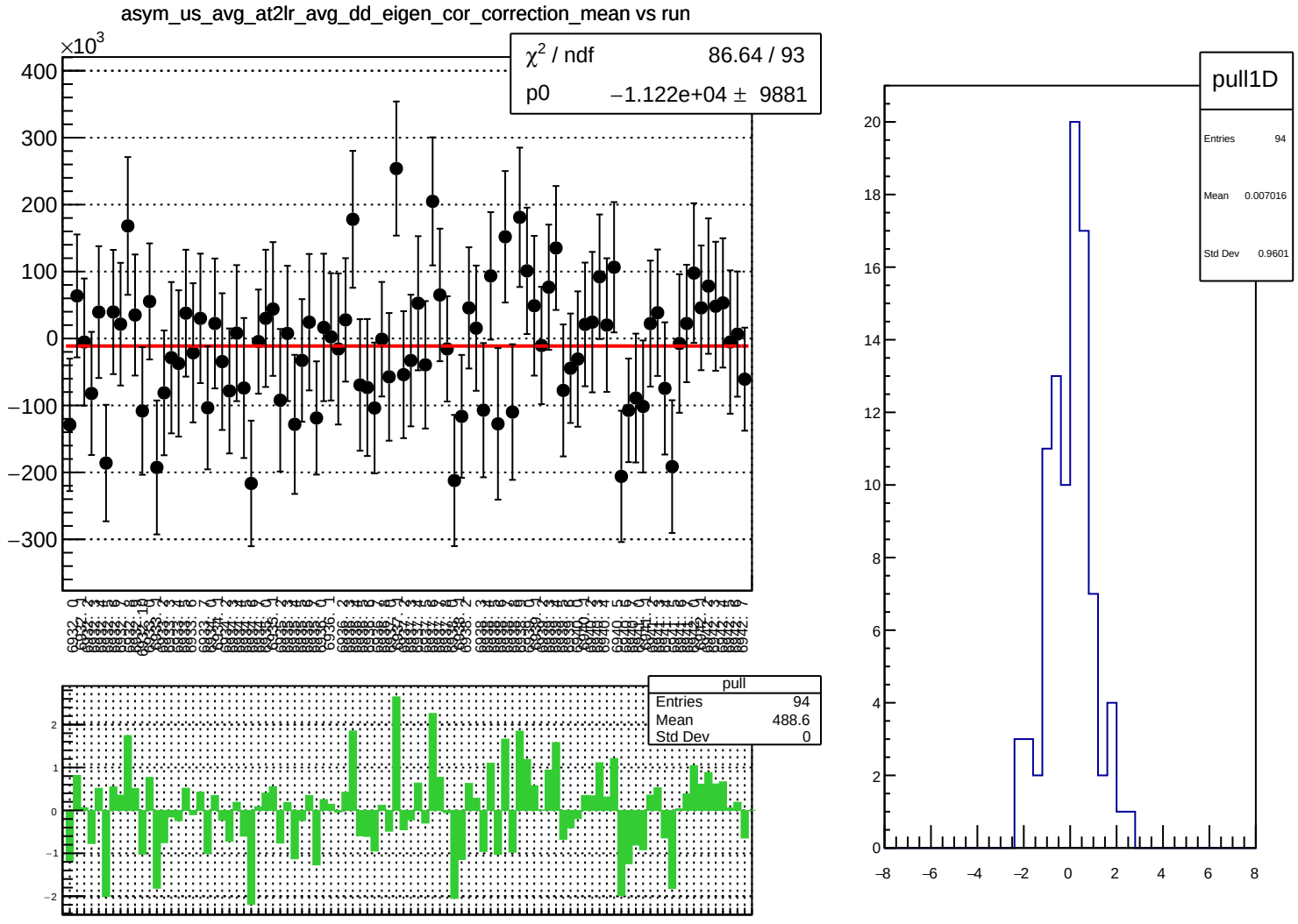

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.64 / 93
p0 −1.122e+04 ± 9881
pull
Entries 94
Mean 488.6
Std Dev 0
pull1D
Entries 94
Mean 0.007016
Std Dev 0.9601

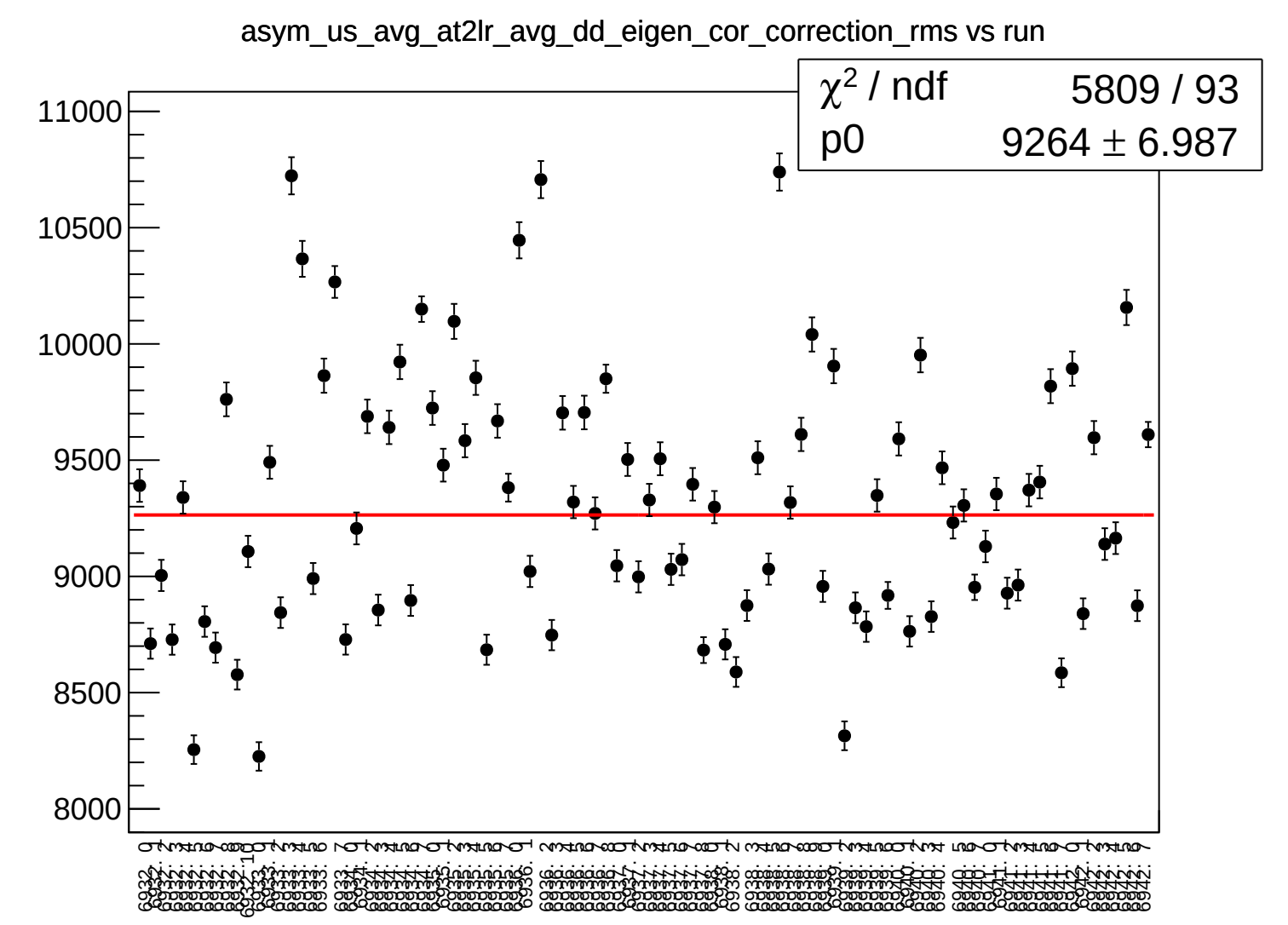

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5809 / 93
p0 9264 ± 6.987
11000
10500
10000
9500
9000
8500
8000

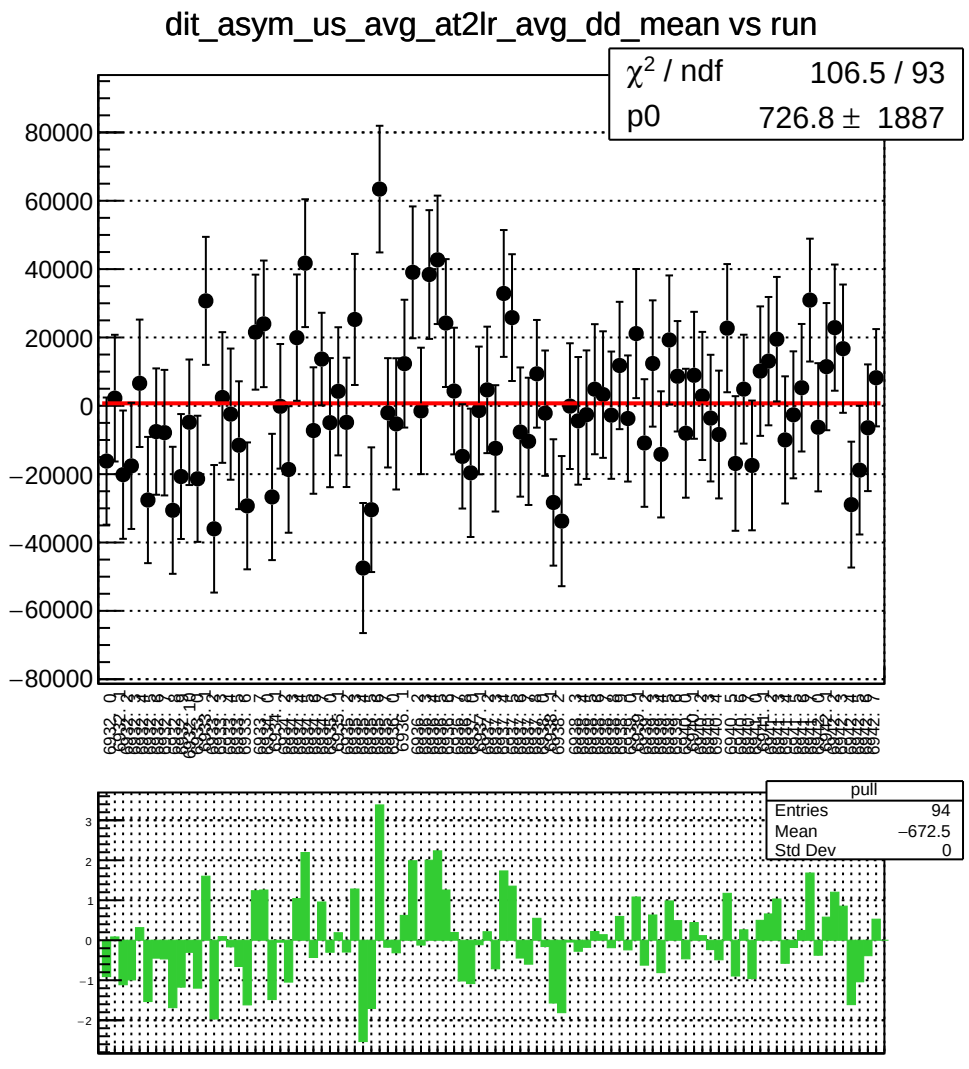

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 112.1 / 93
p0 1233 ± 1744
pull
Entries 94
Mean −235.4
Std Dev 0

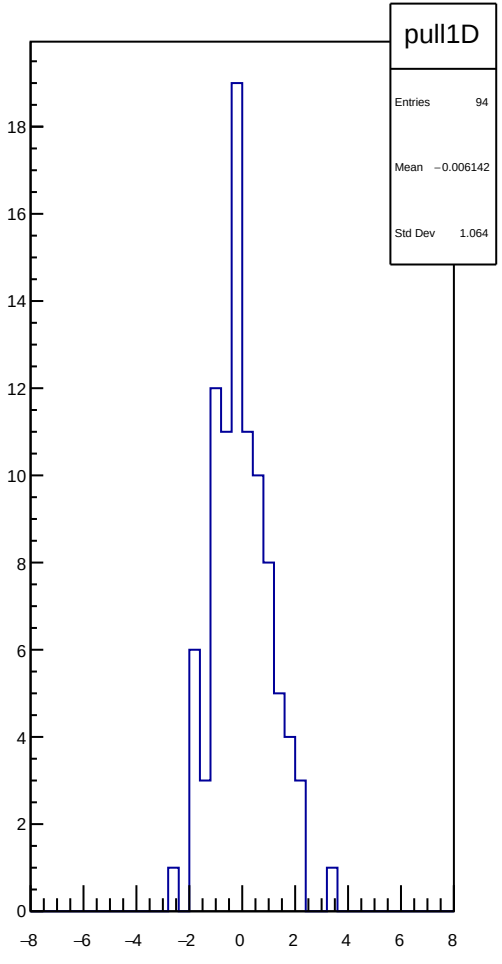

pull1D
Entries 94
Mean −0.01101
Std Dev 1.092

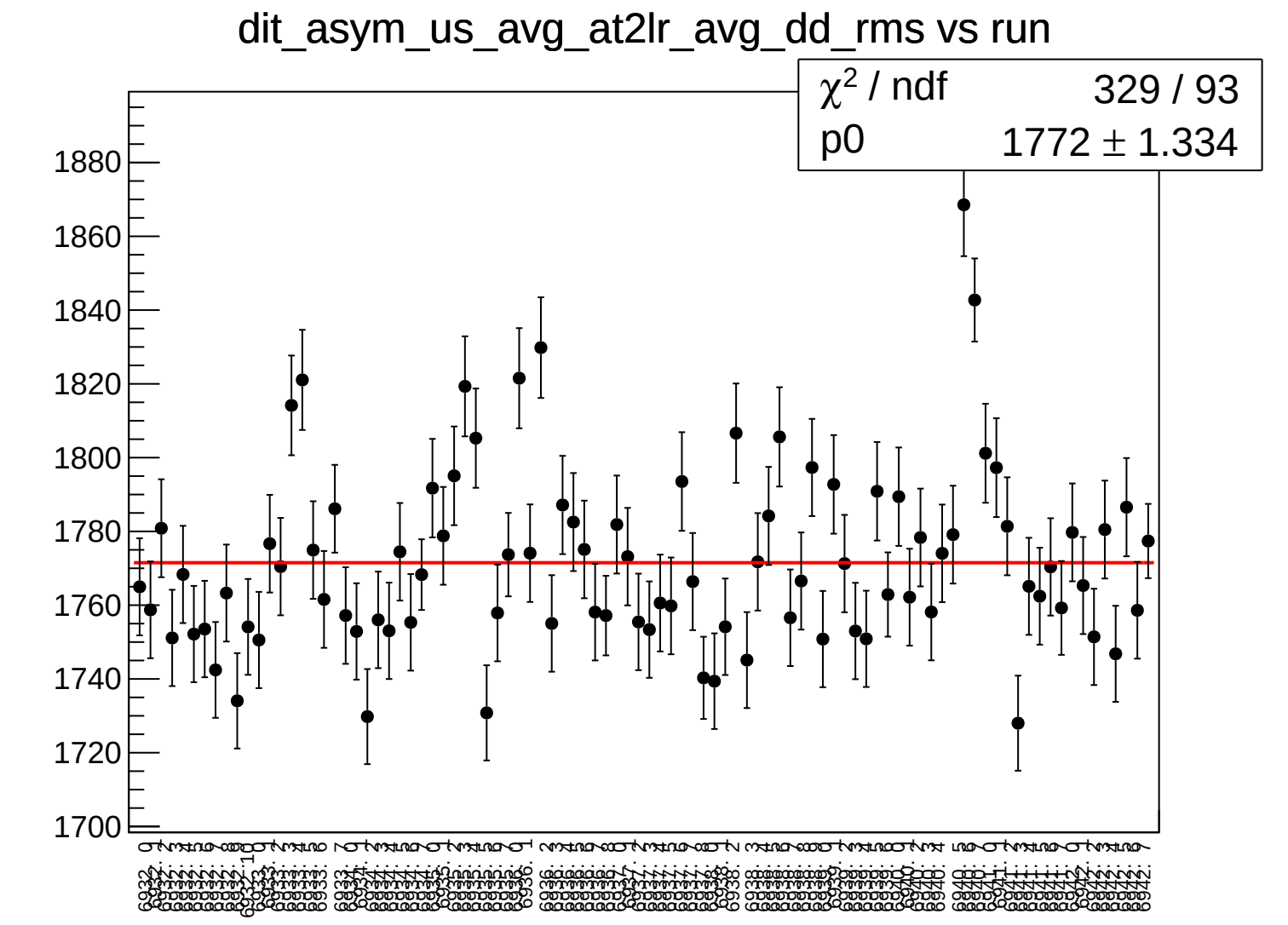

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 168.4 / 93
p0 1638 ± 1.233
1700
1680
1660
1640
1620
1600
1580

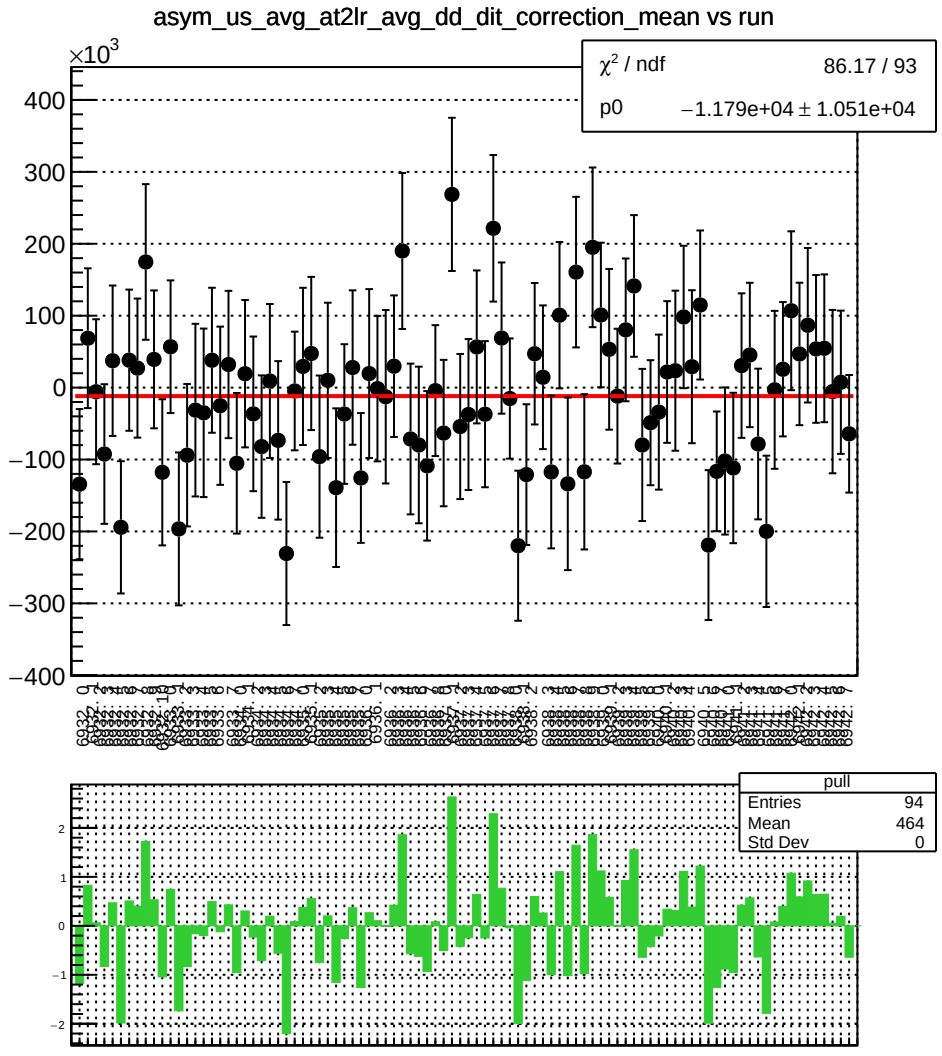

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.64 / 93
p0 −1.122e+04 ± 9881
pull
Entries 94
Mean 488.6
Std Dev 0
pull1D
Entries 94
Mean 0.007016
Std Dev 0.9601

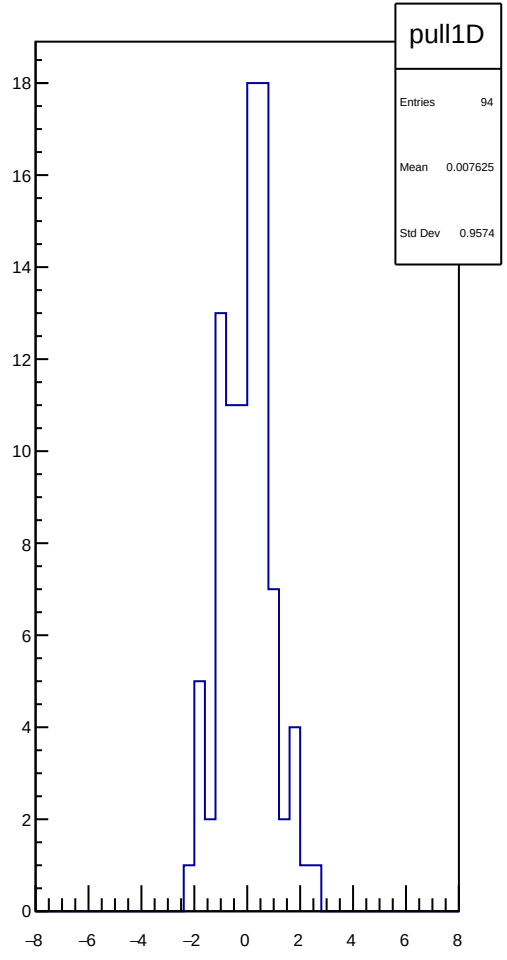

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5809 / 93
p0 9264 ± 6.987
11000
10500
10000
9500
9000
8500
8000

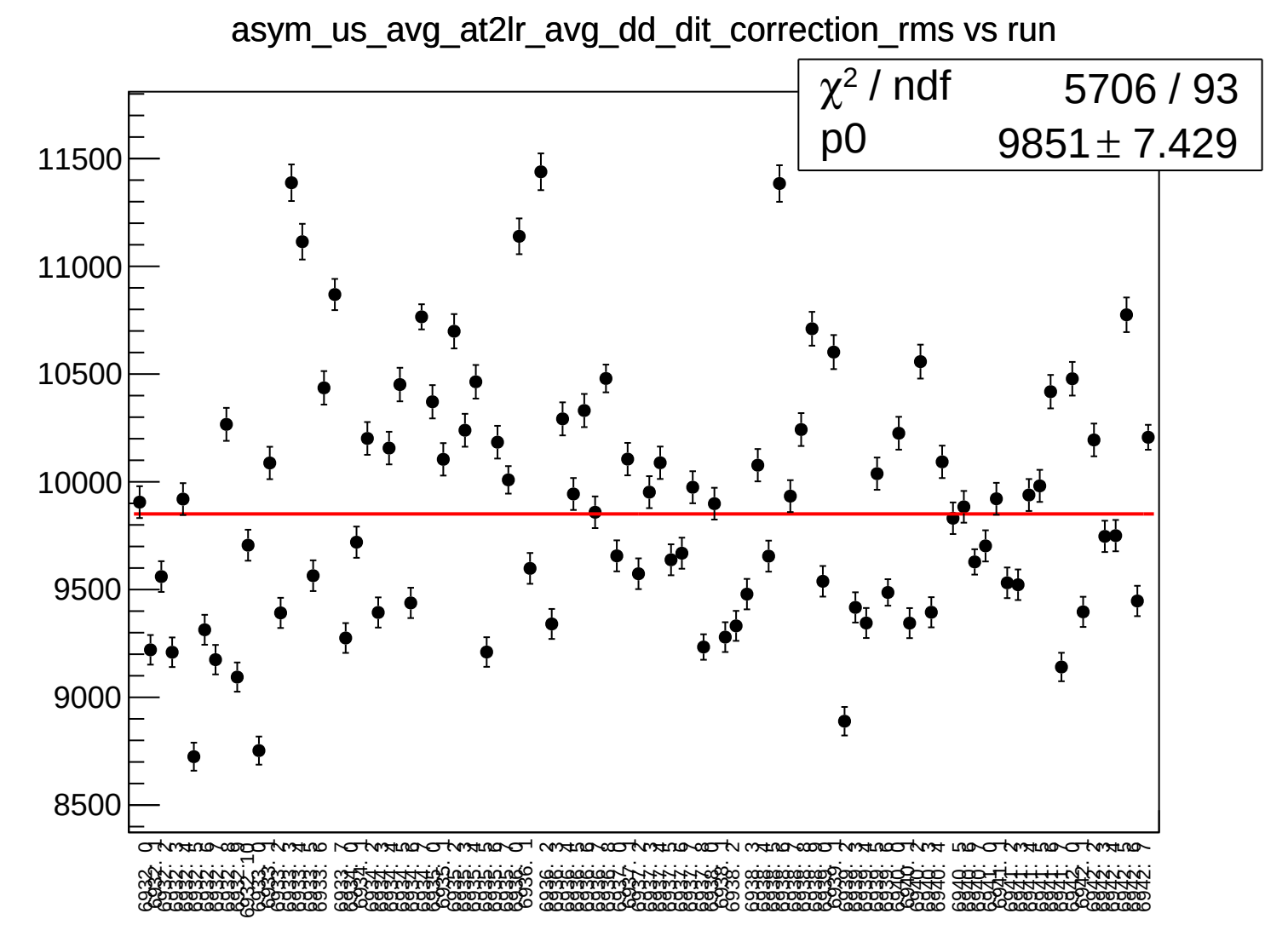

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.5 / 93
p0 726.8 ± 1887
pull
Entries 94
Mean −672.5
Std Dev 0

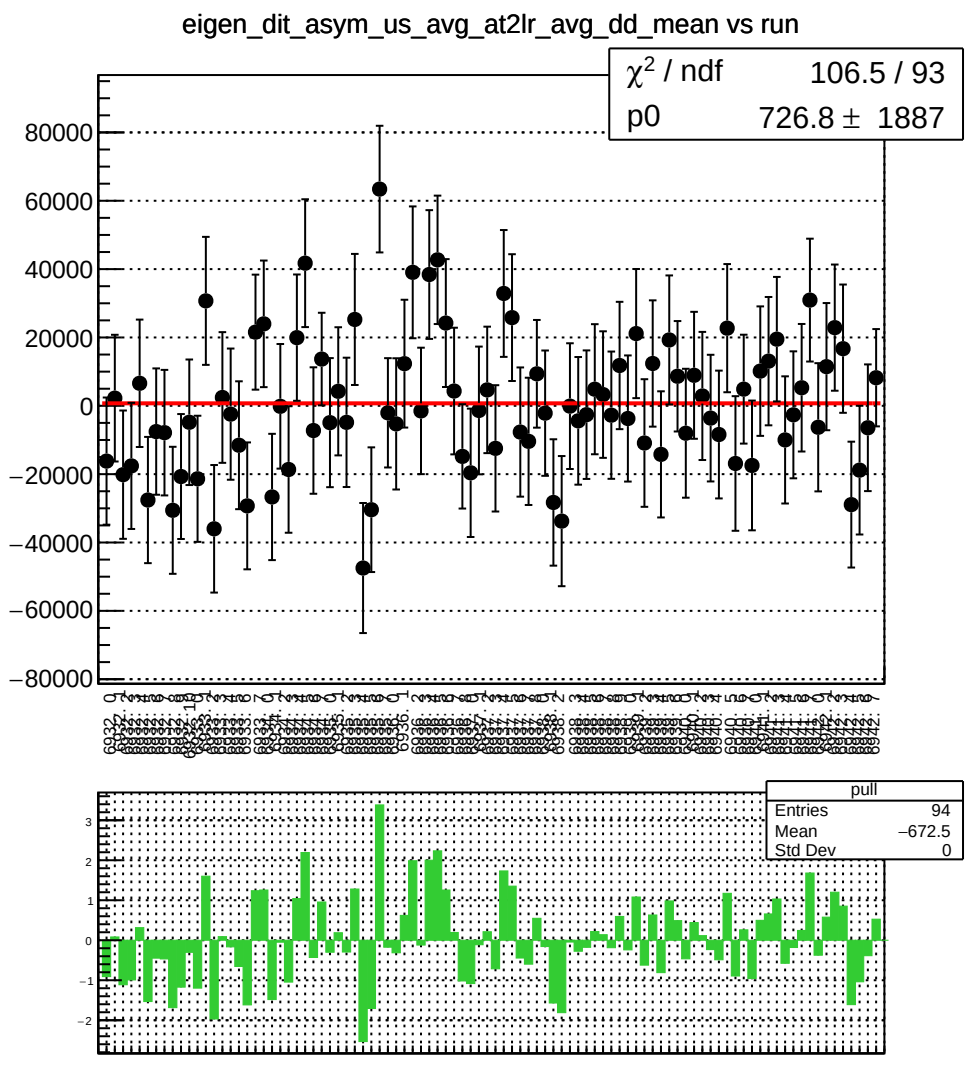

pull1D
Entries 94
Mean −0.006142
Std Dev 1.064

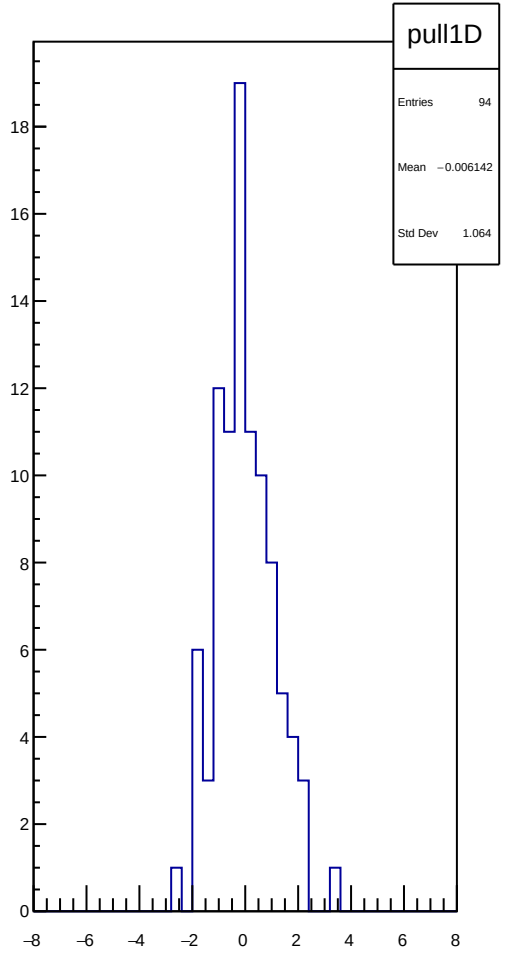

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 329 / 93
p0 1772 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

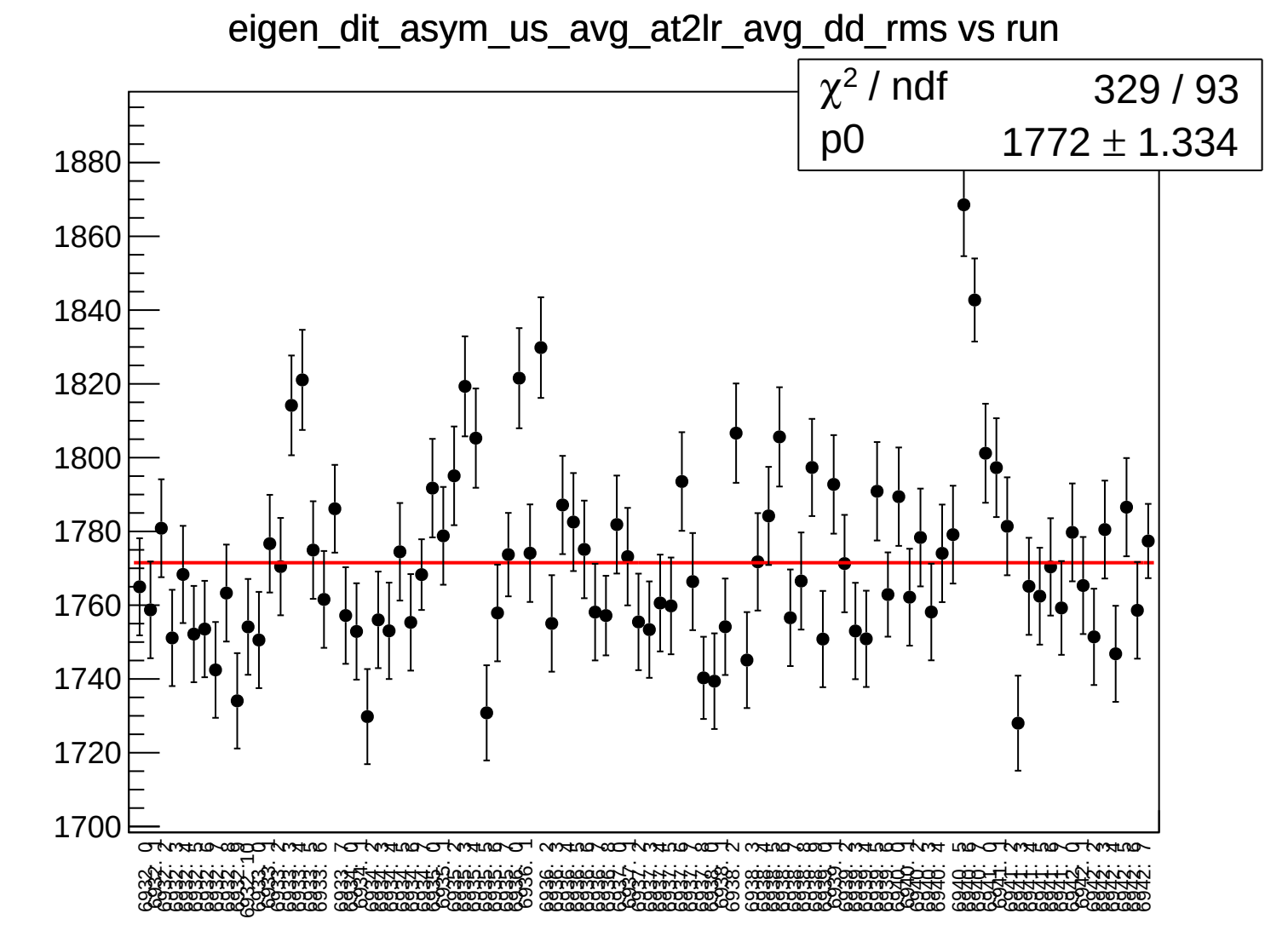

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.17 / 93
p0 −1.179e+04 ± 1.051e+04
pull
Entries 94
Mean 464
Std Dev 0

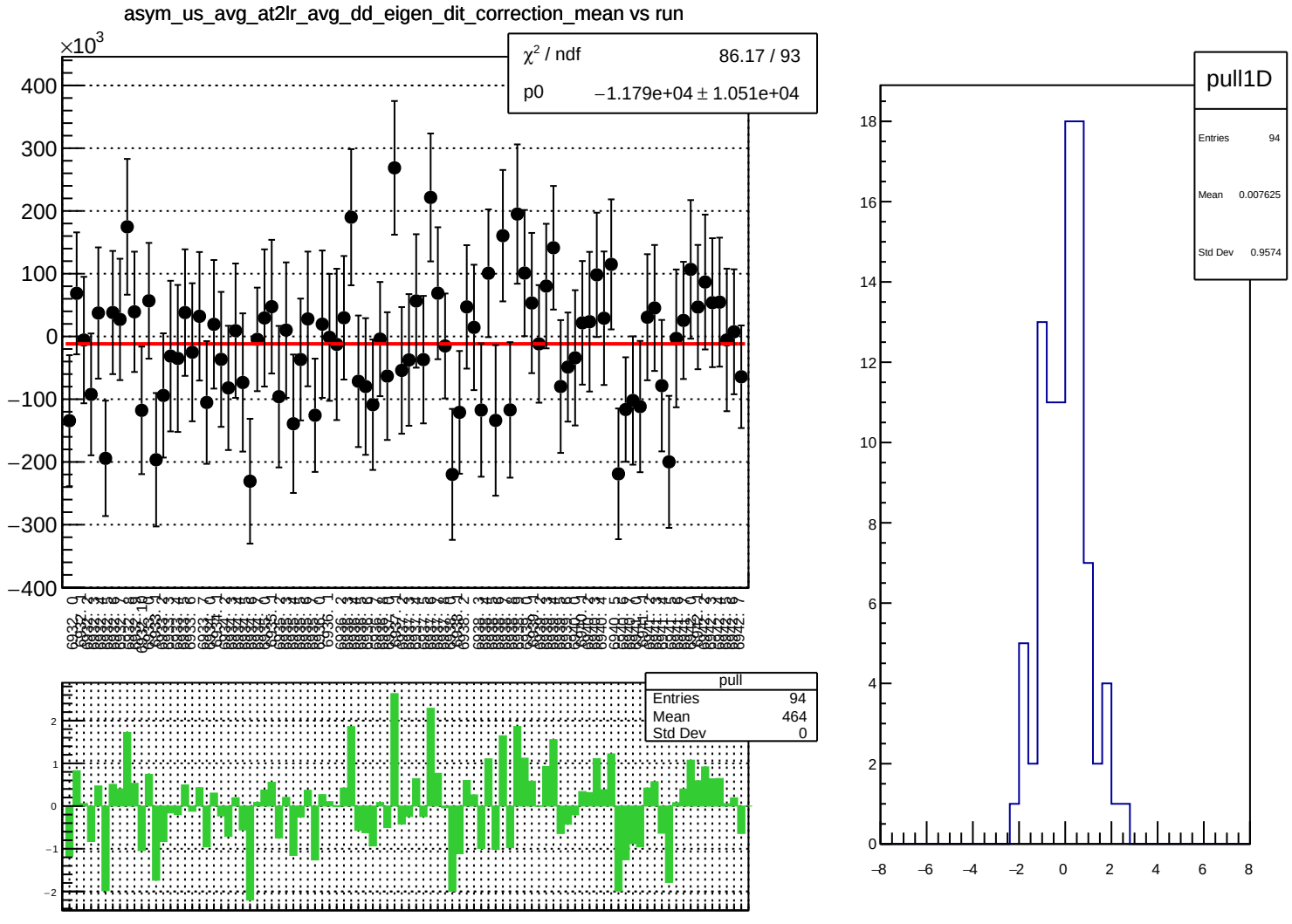

pull1D
Entries 94
Mean 0.007625
Std Dev 0.9574

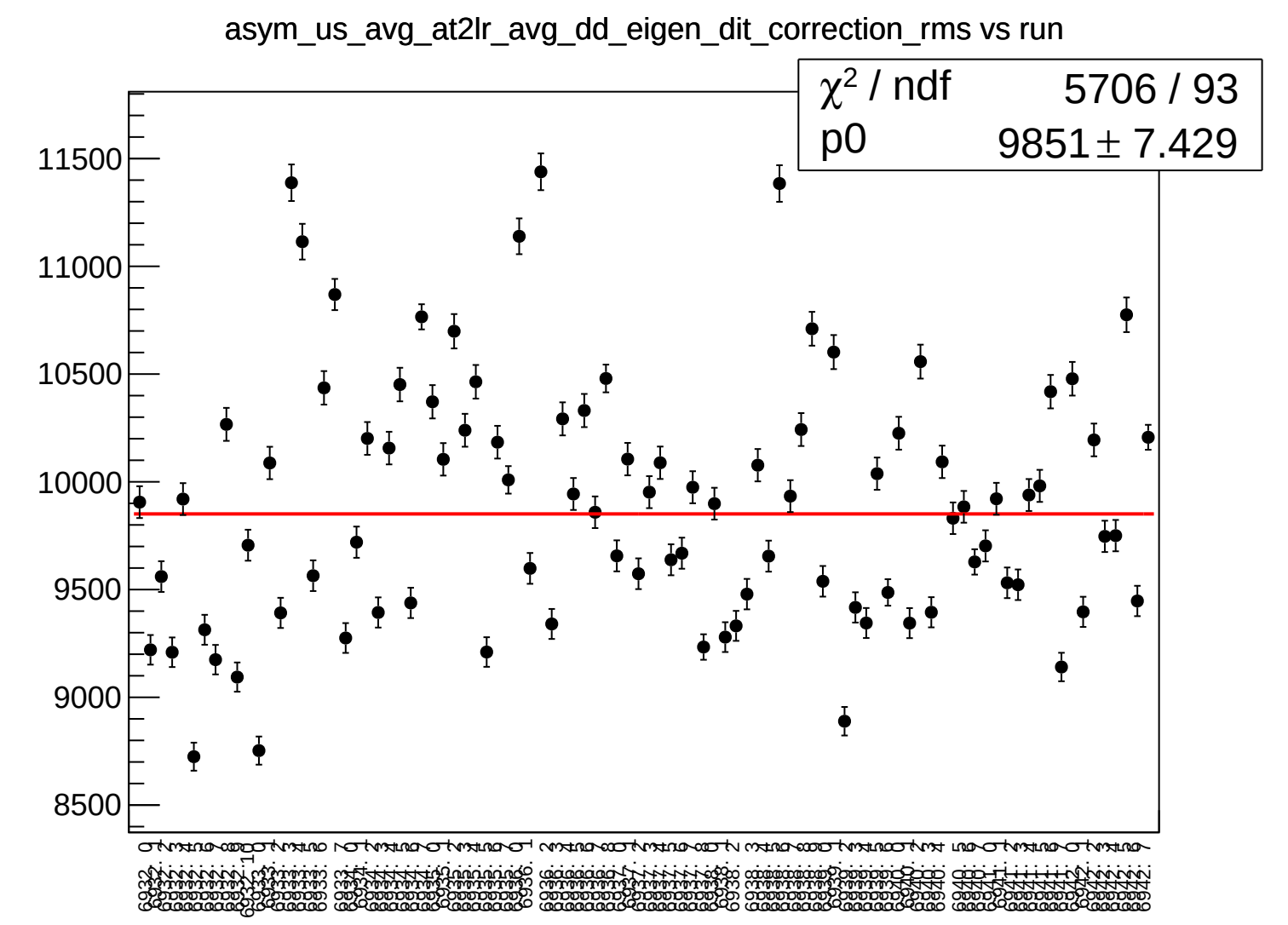

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5706 / 93
p0 9851 ± 7.429
11500
11000
10500
10000
9500
9000
8500

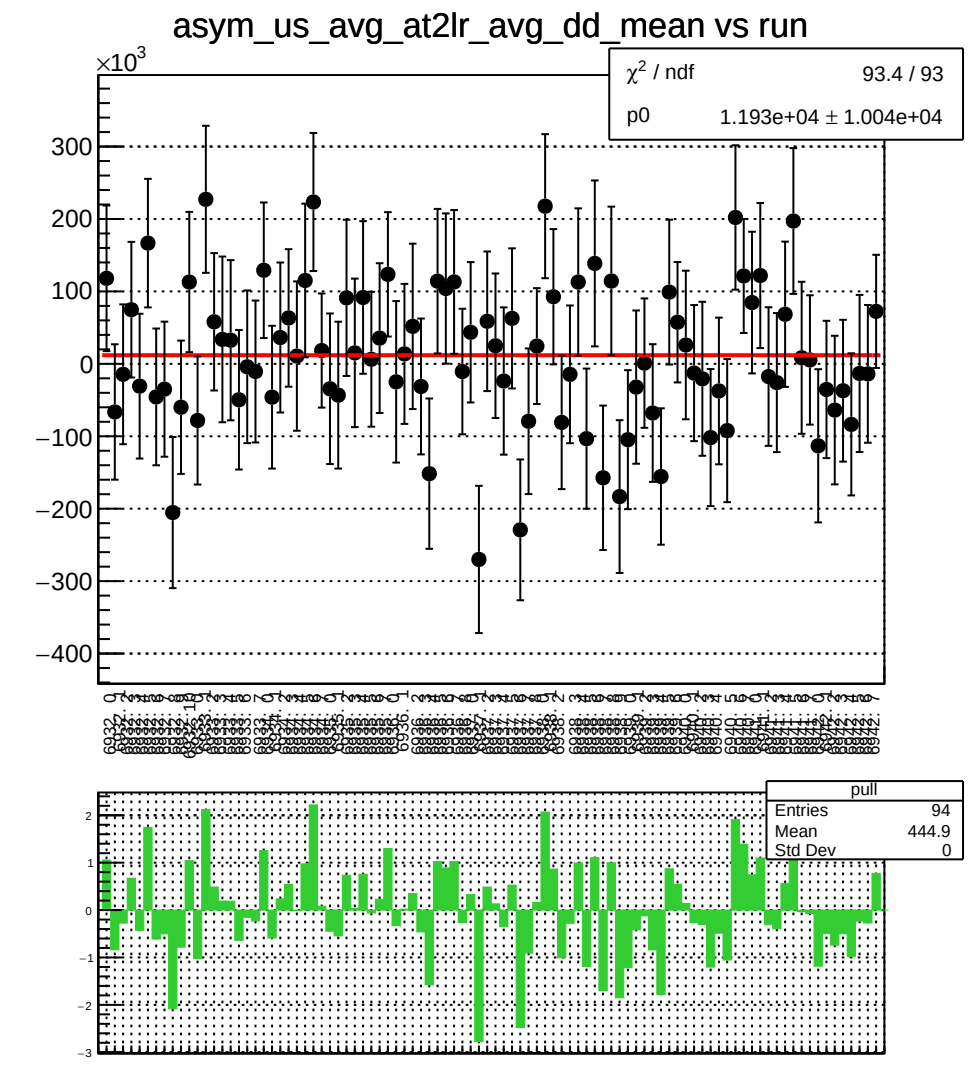

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 106.5 / 93
p0 726.8 ± 1887
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −672.5
Std Dev 0
3
2
1
0
−1
−2

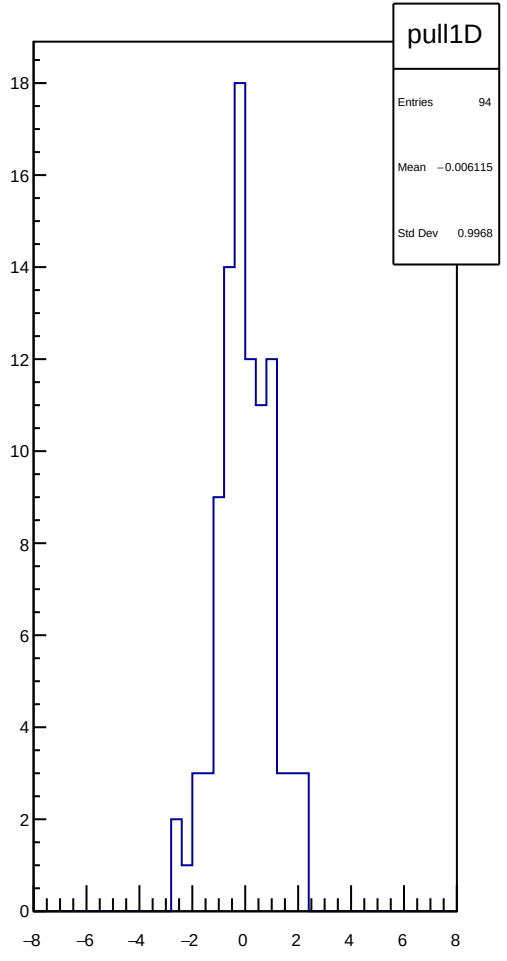

pull1D
Entries 94
Mean −0.006142
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

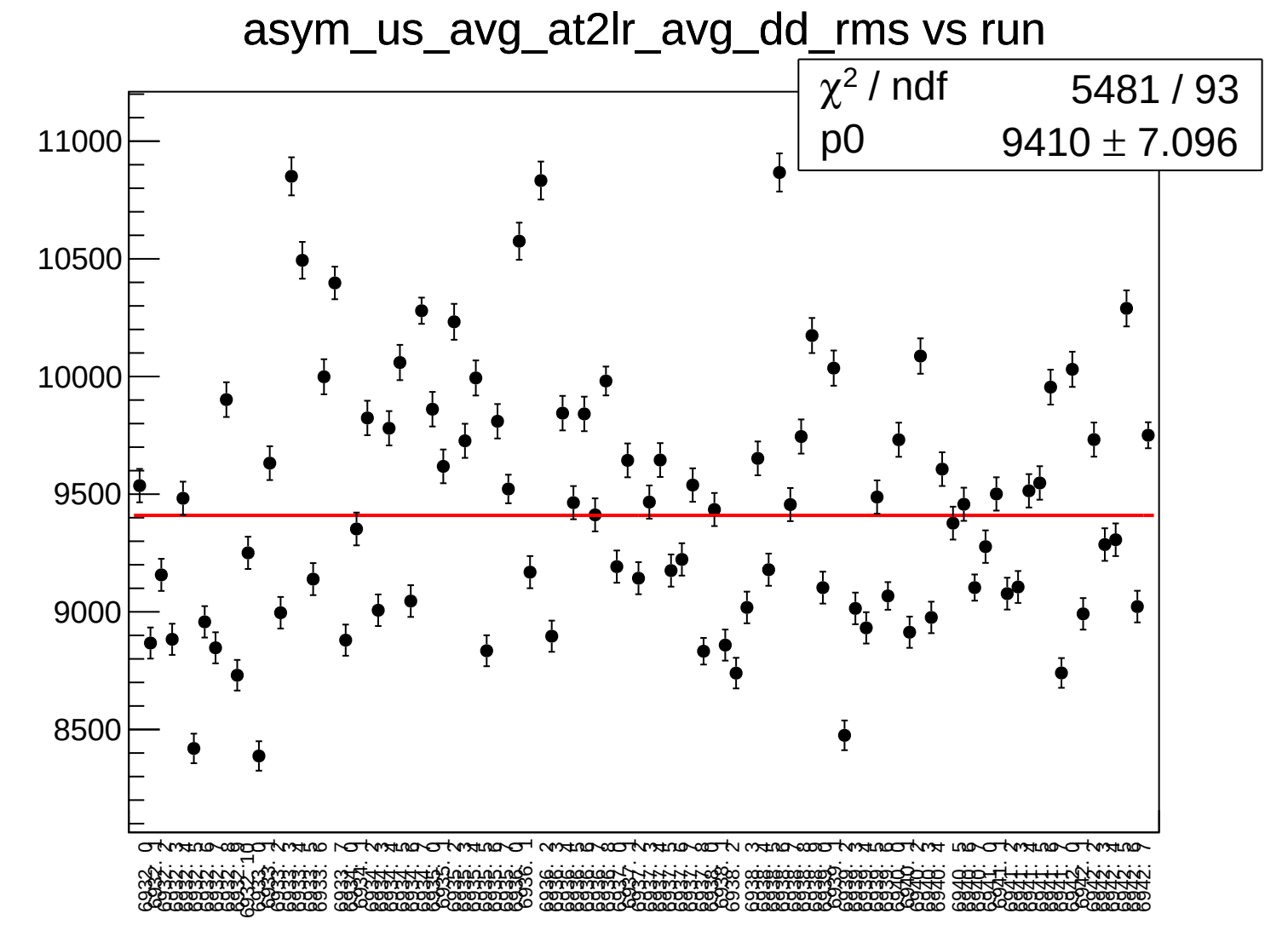

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 329 / 93
p0 1772 ± 1.334
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700

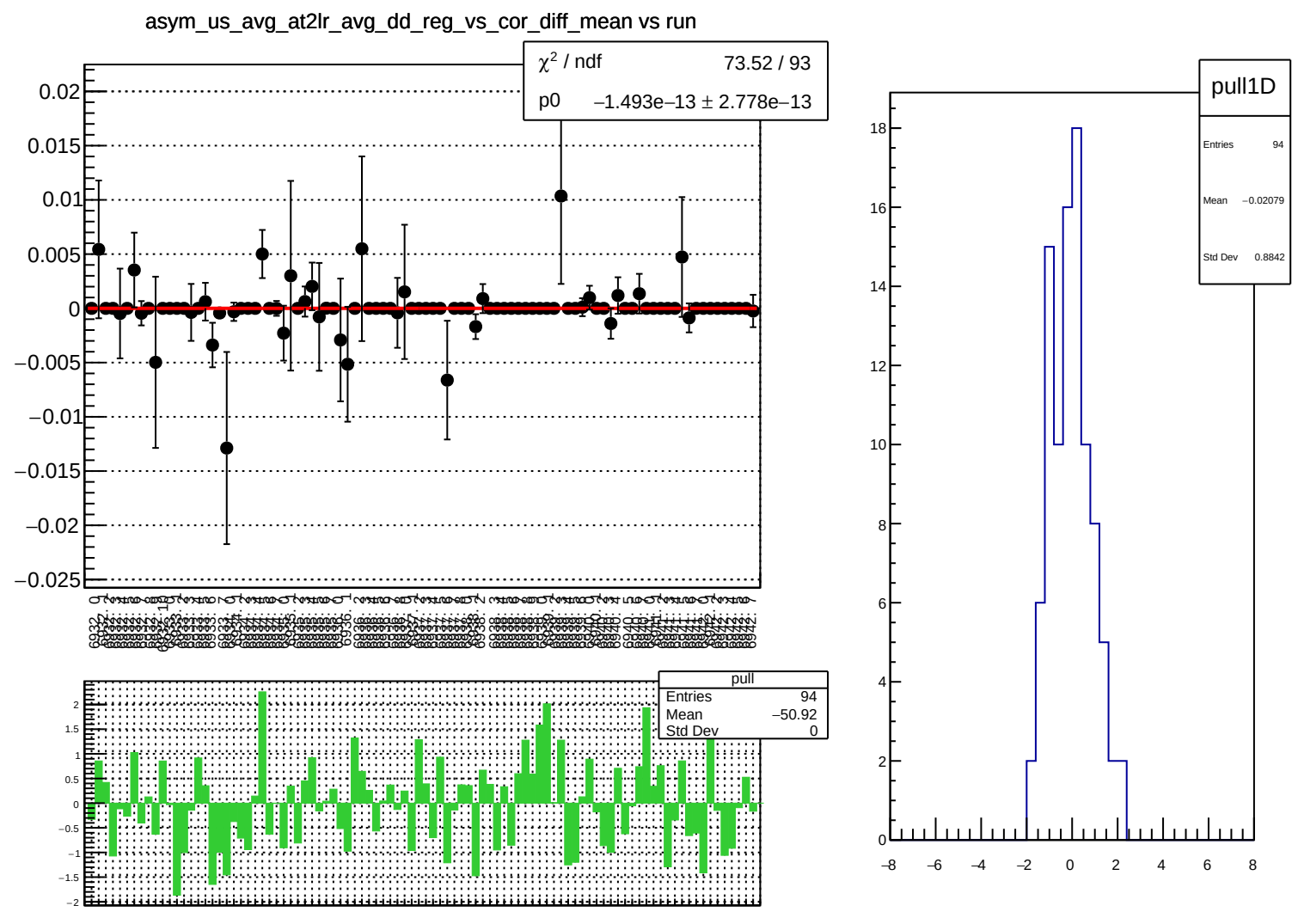

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.17 / 93
p0 −1.179e+04 ± 1.051e+04
pull
Entries 94
Mean 464
Std Dev 0
pull1D
Entries 94
Mean 0.007625
Std Dev 0.9574

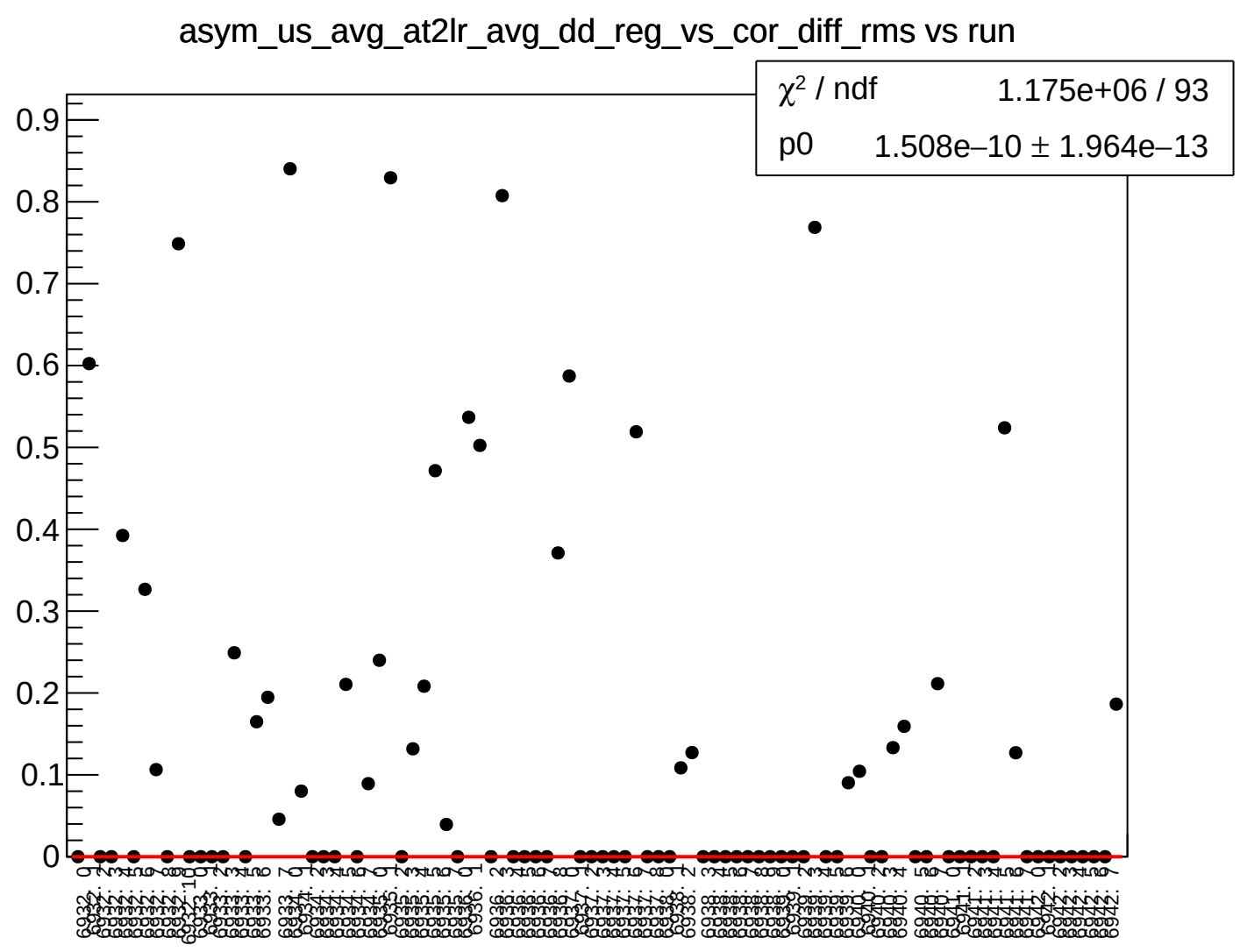

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5706 / 93
p0 9851 ± 7.429
11500
11000
10500
10000
9500
9000
8500

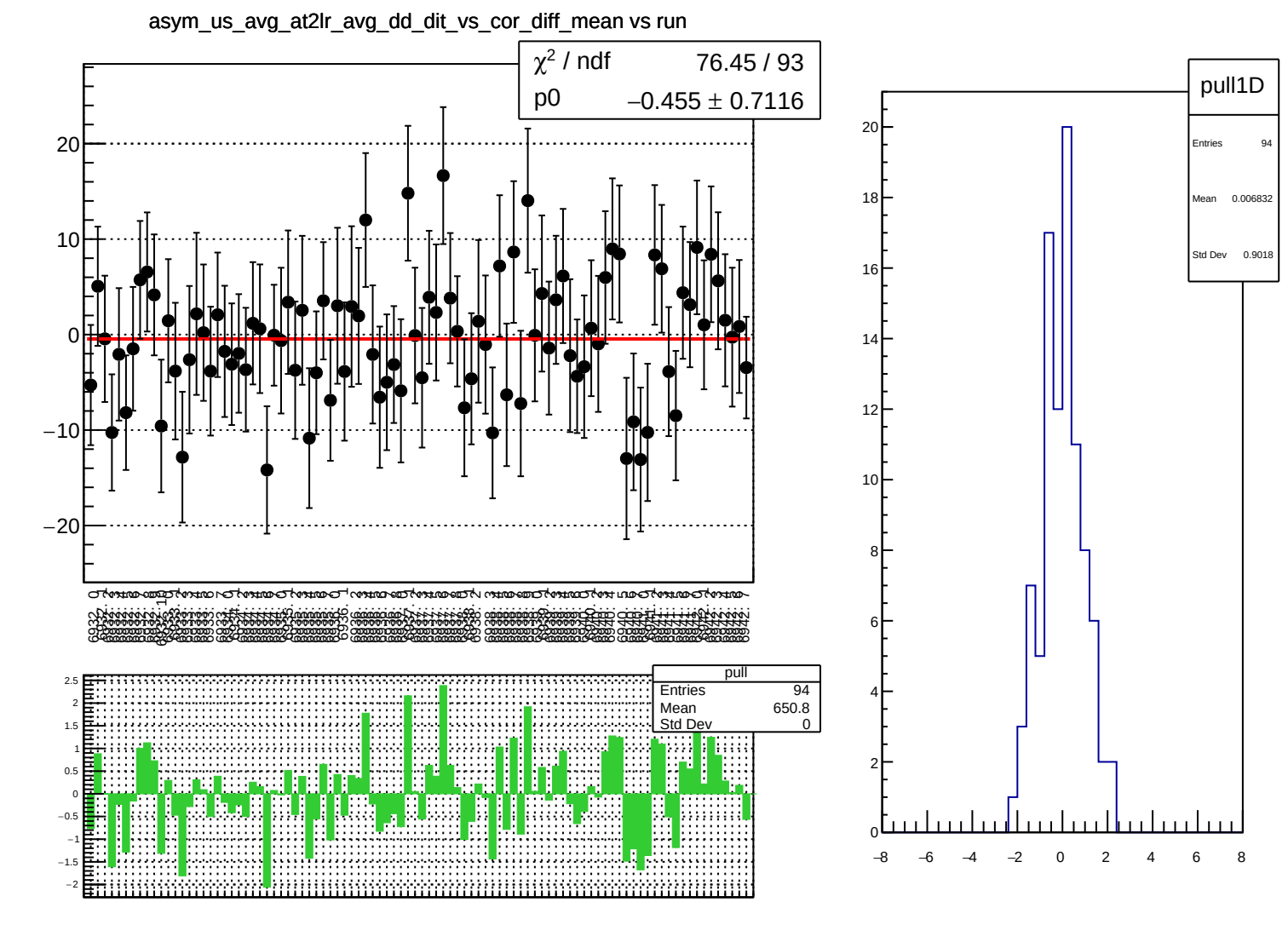

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 93.4 / 93
p0 1.193e+04 ± 1.004e+04
300
200
100
0
−100
−200
−300
−400
pull
Entries 94
Mean 444.9
Std Dev 0
2
1
0
−1
−2
−3

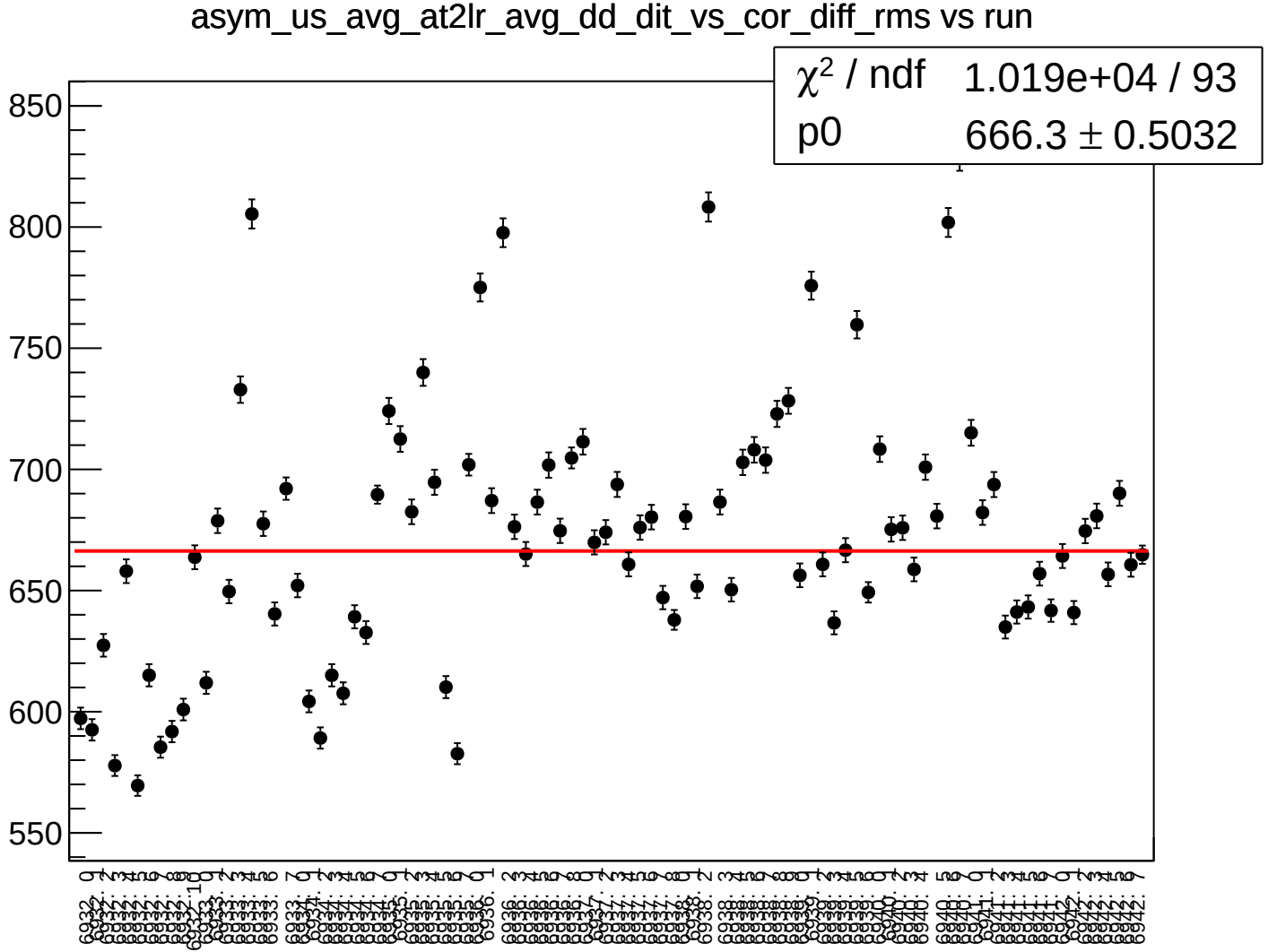

pull1D
Entries 94
Mean −0.006115
Std Dev 0.9968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

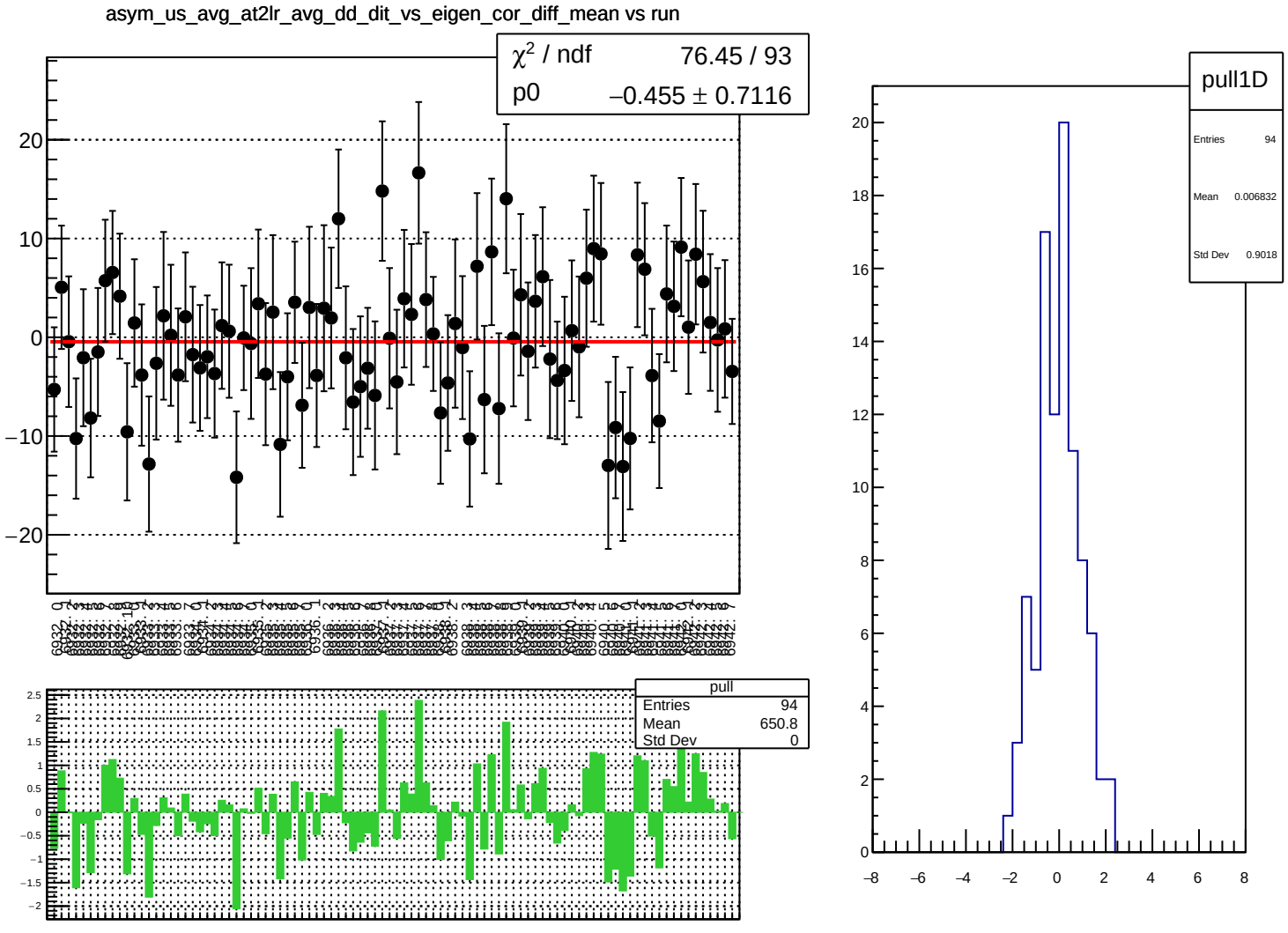

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 5481 / 93
p0 9410 ± 7.096
11000
10500
10000
9500
9000
8500

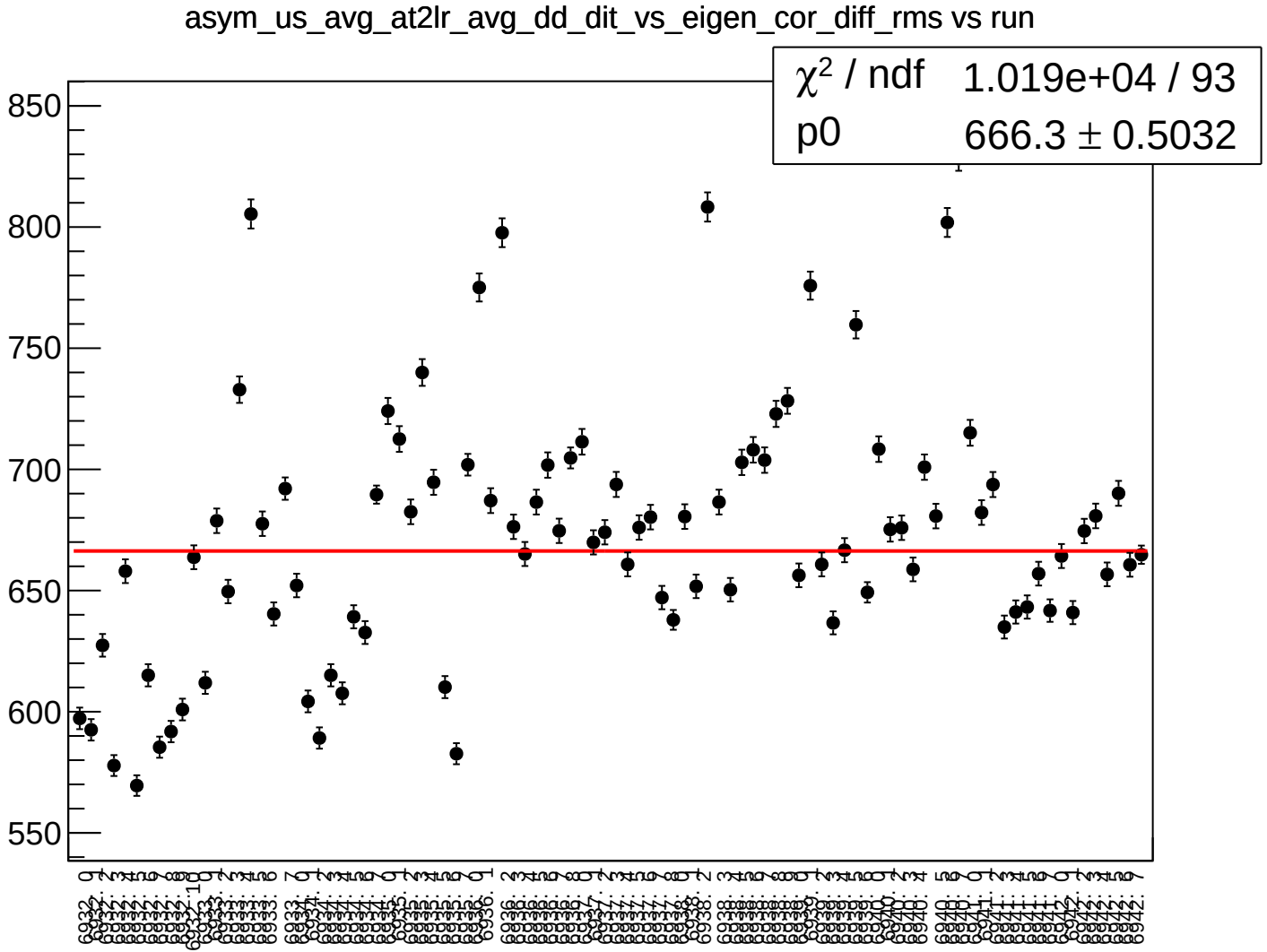

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.52 / 93
p0 −1.493e−13 ± 2.778e−13
pull
Entries 94
Mean −50.92
Std Dev 0
pull1D
Entries 94
Mean −0.02079
Std Dev 0.8842

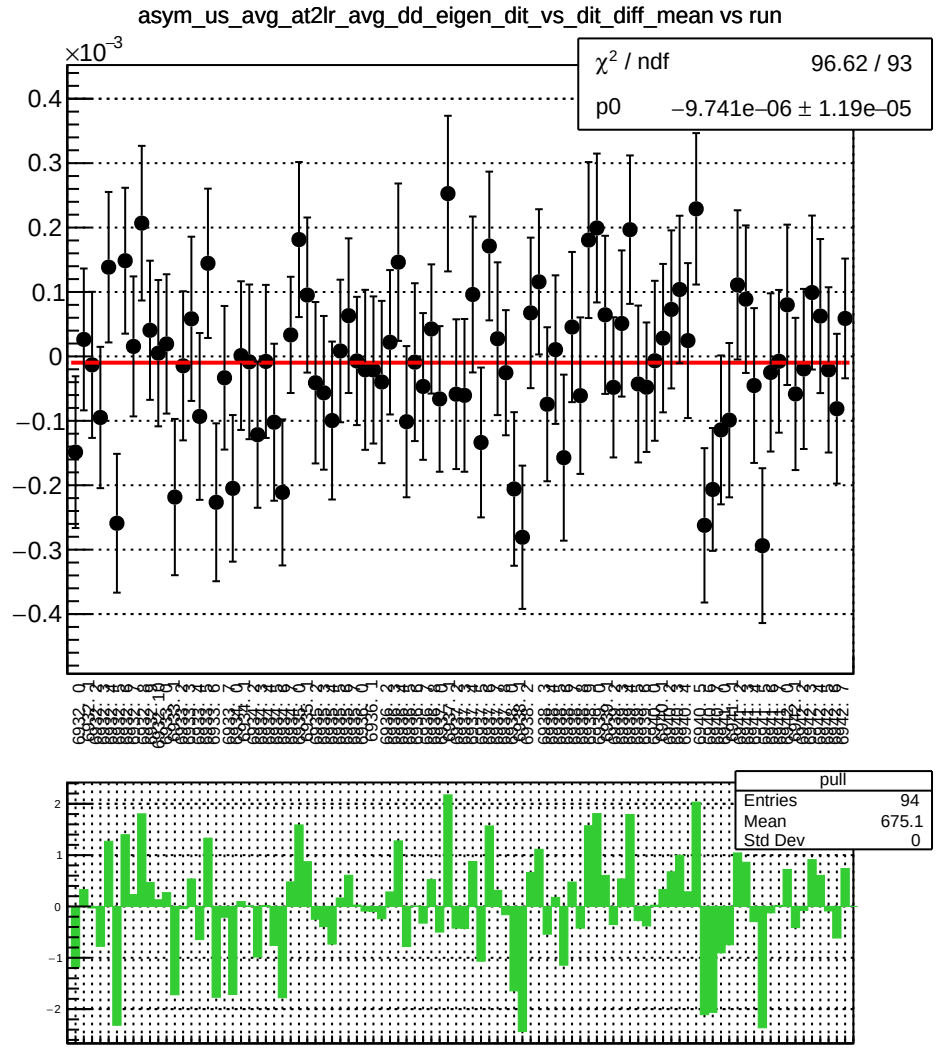

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.175e+06 / 93
p0 1.508e−10 ± 1.964e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

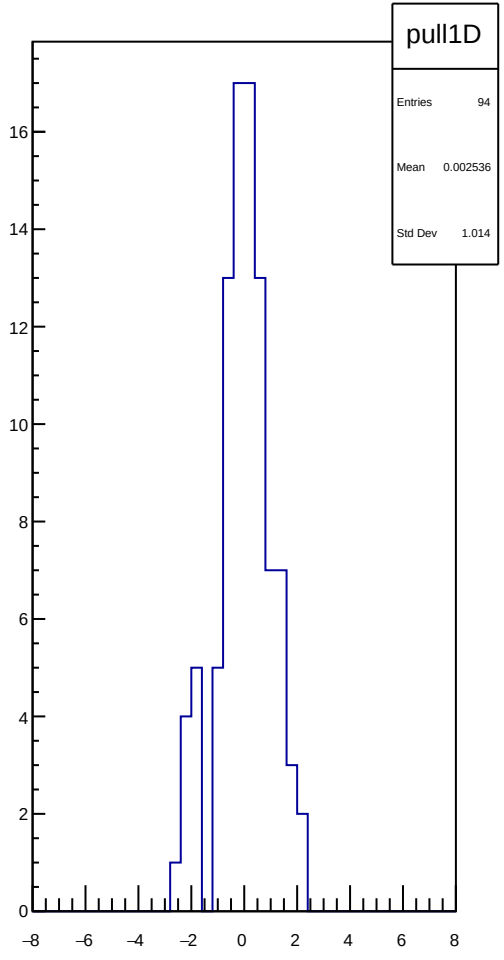

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.45 / 93
p0 −0.455 ± 0.7116
pull
Entries 94
Mean 650.8
Std Dev 0
pull1D
Entries 94
Mean 0.006832
Std Dev 0.9018

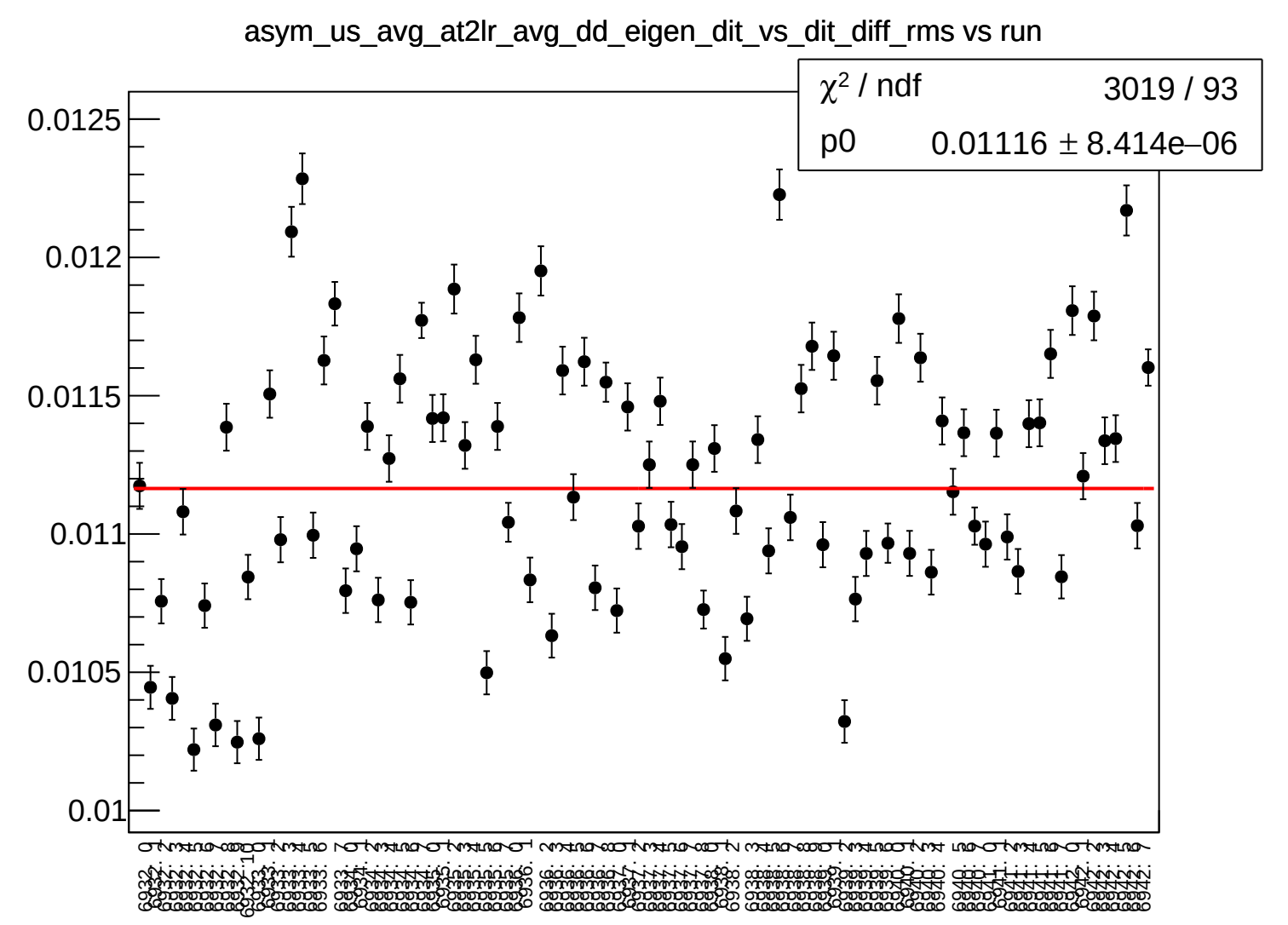

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.019e+04 / 93
p0 666.3 ± 0.5032
850
800
750
700
650
600
550

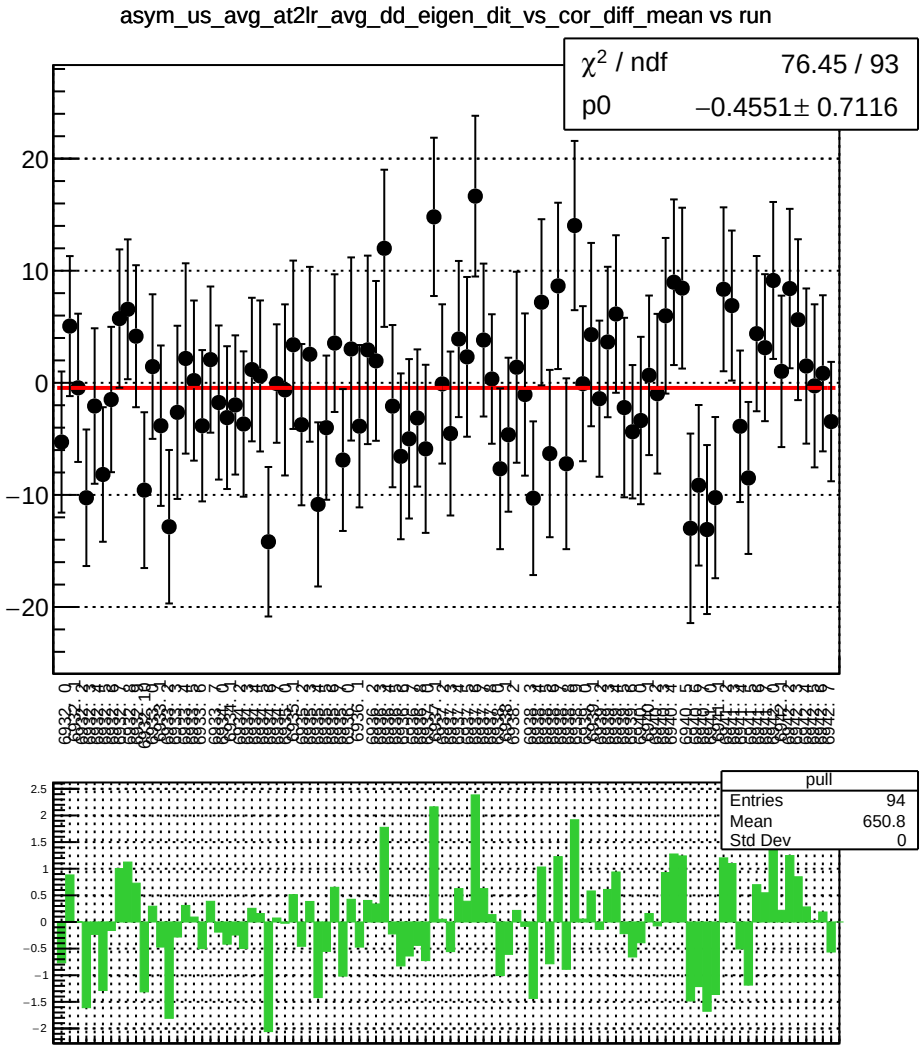

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.45 / 93
p0 −0.455 ± 0.7116
20
10
0
−10
−20
pull
Entries 94
Mean 650.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.006832
Std Dev 0.9018
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

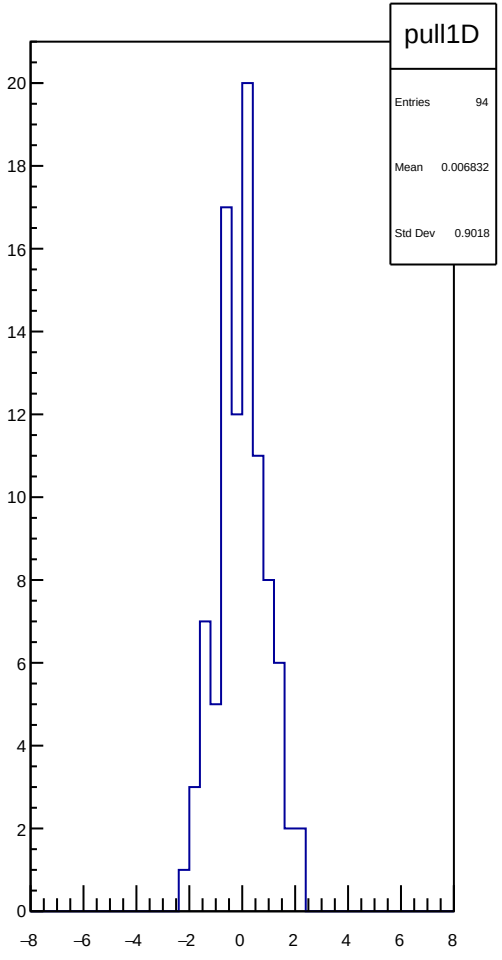

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.019e+04 / 93
p0 666.3 ± 0.5032
850
800
750
700
650
600
550

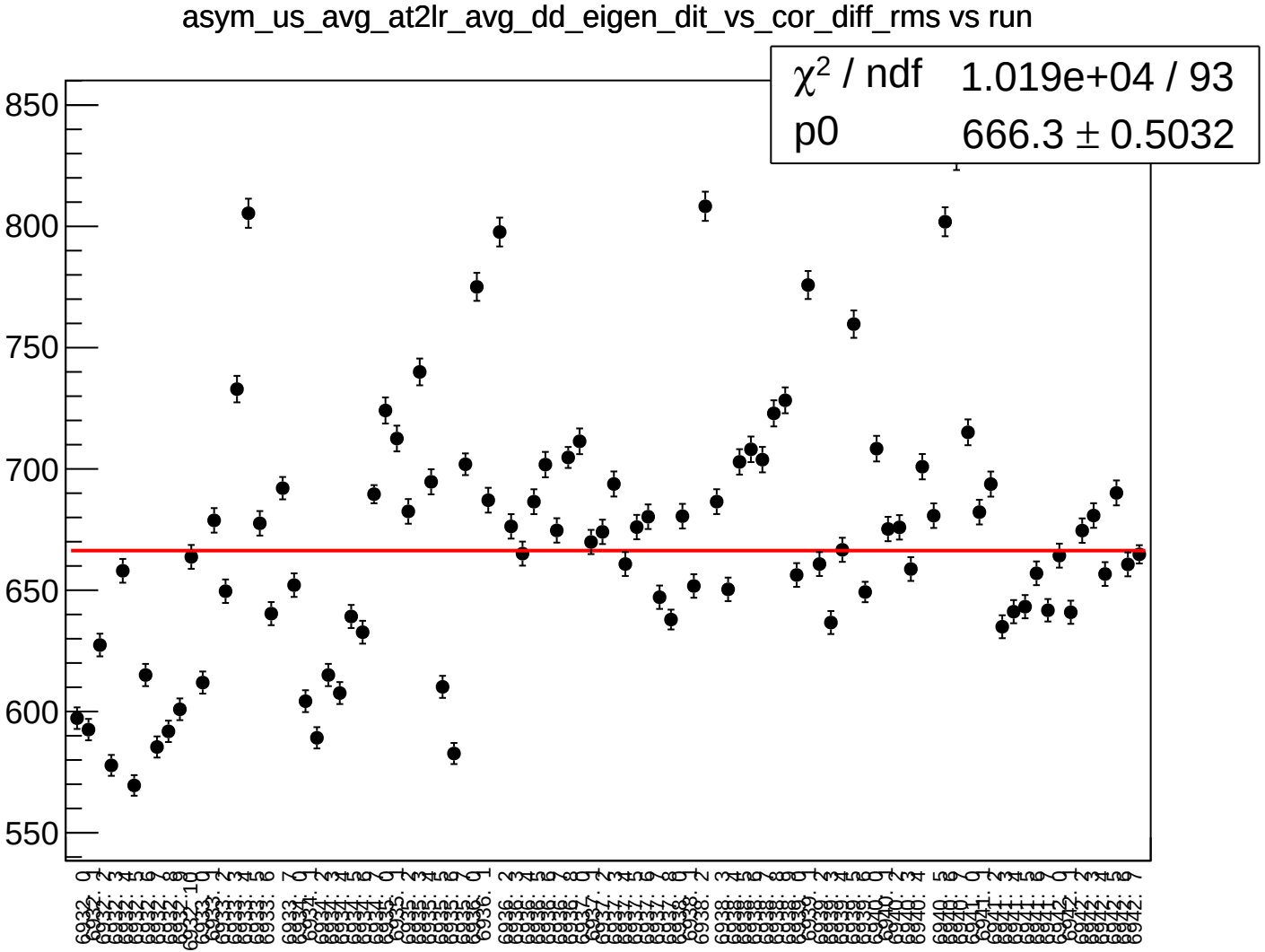

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.62 / 93
p0 −9.741e−06 ± 1.19e−05
pull
Entries 94
Mean 675.1
Std Dev 0

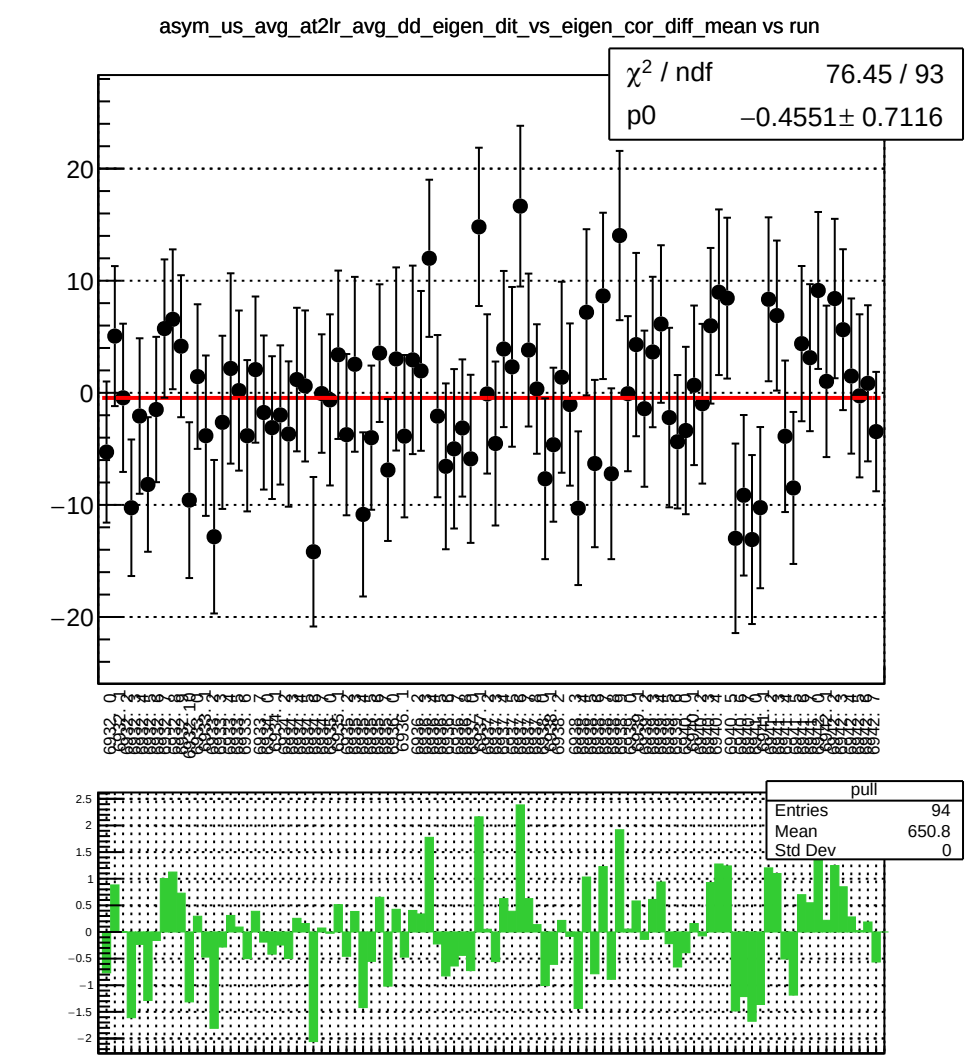

pull1D
Entries 94
Mean 0.002536
Std Dev 1.014

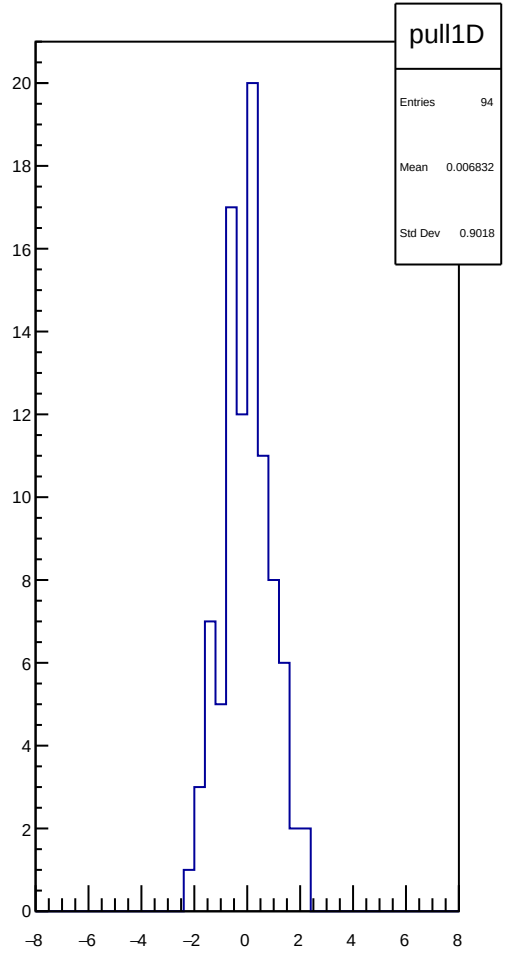

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3019 / 93
p0 0.01116 ± 8.414e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01

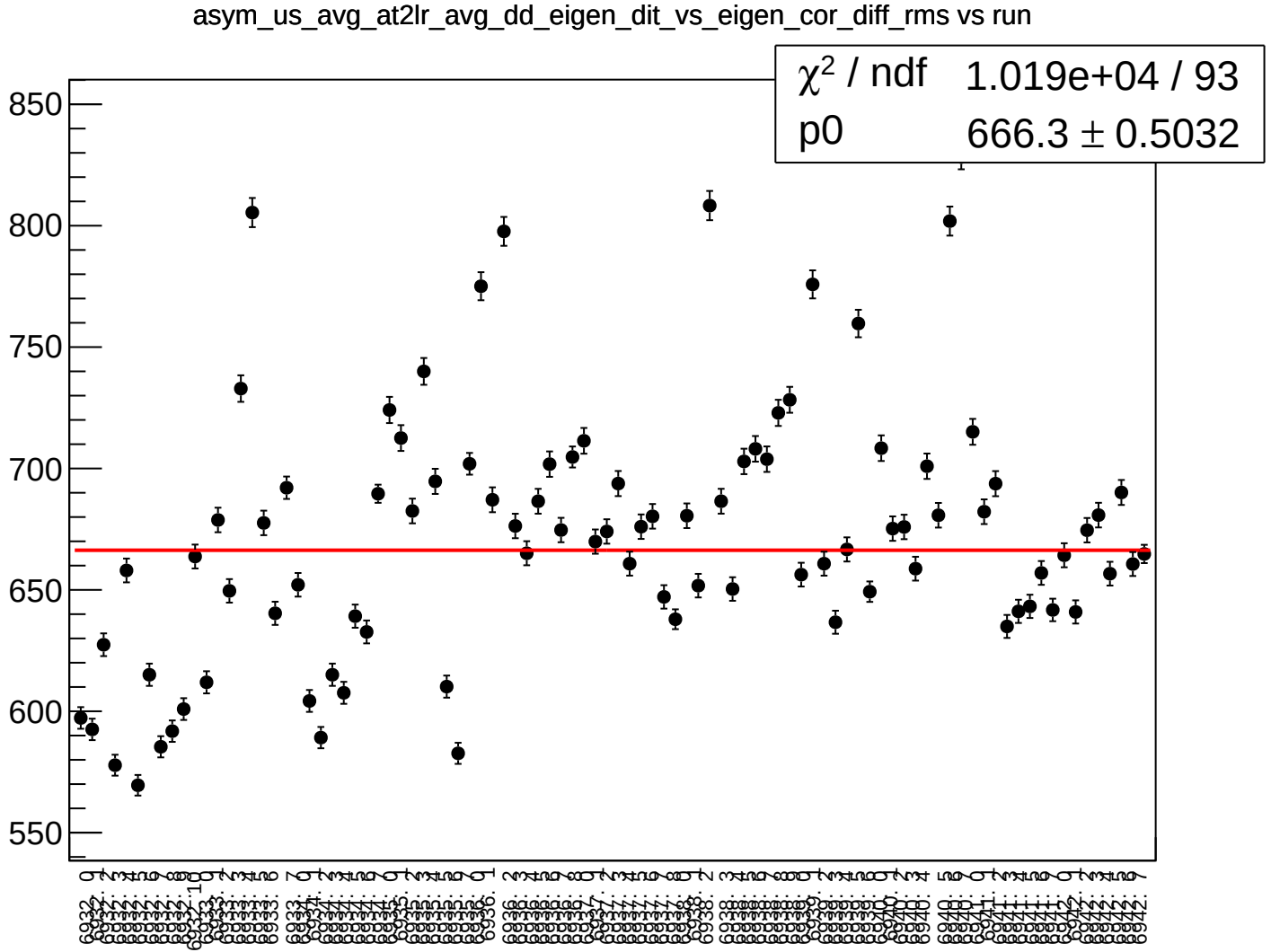

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.45 / 93
p0 −0.4551± 0.7116
pull
Entries 94
Mean 650.8
Std Dev 0

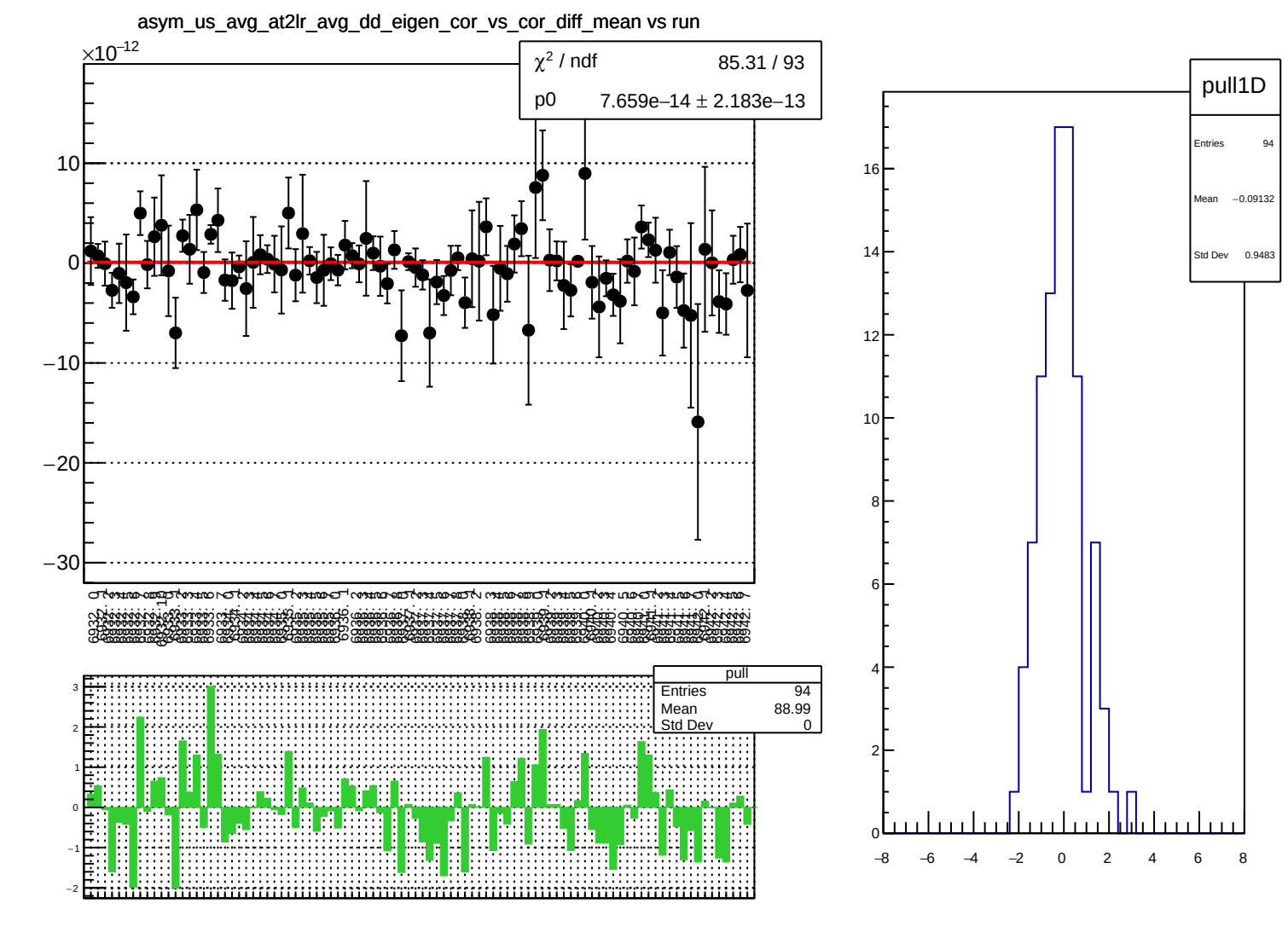

pull1D
Entries 94
Mean 0.006832
Std Dev 0.9018

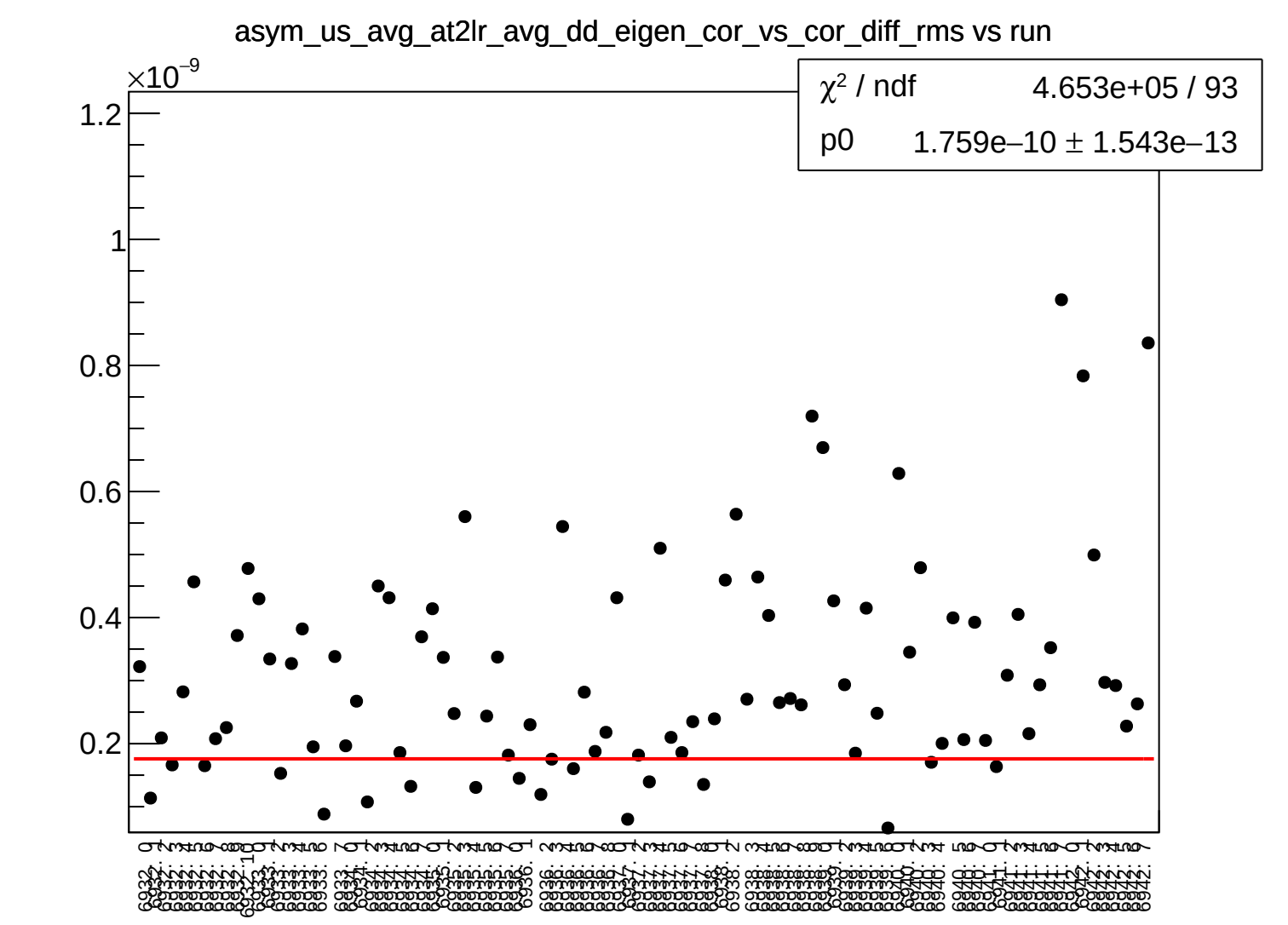

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.019e+04 / 93
p0 666.3 ± 0.5032
850
800
750
700
650
600
550

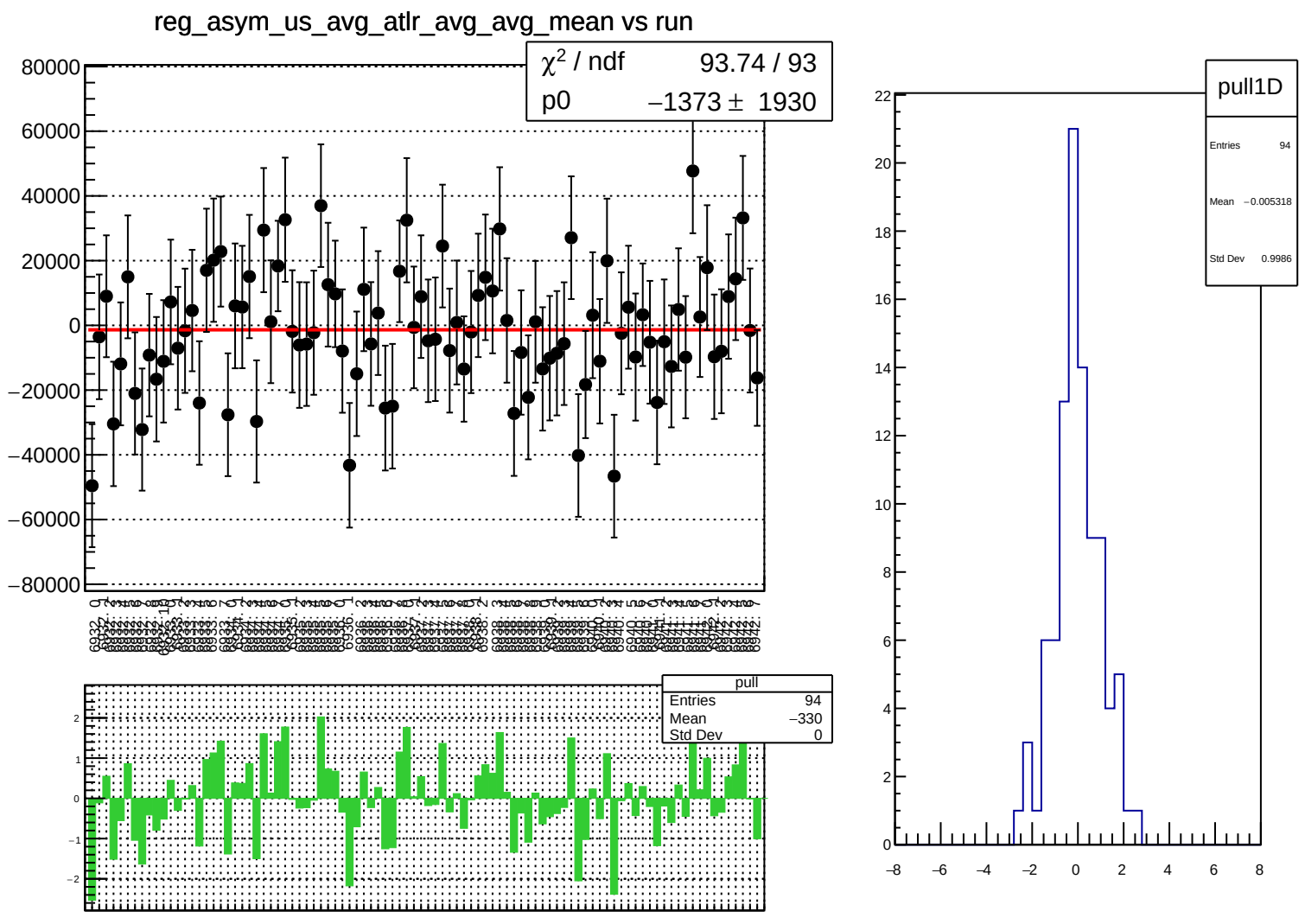

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.45 / 93
p0 −0.4551± 0.7116
pull
Entries 94
Mean 650.8
Std Dev 0

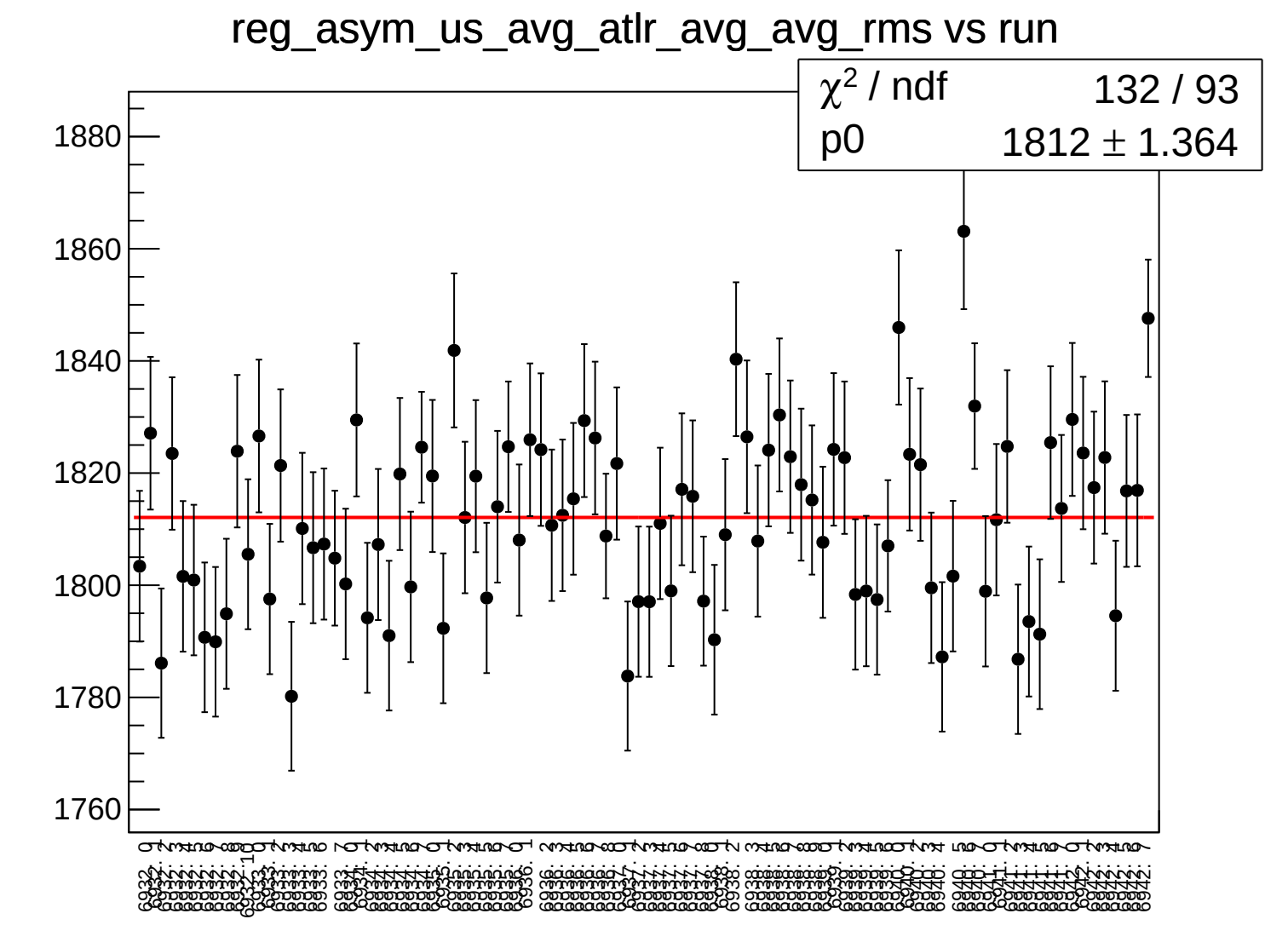

pull1D
Entries 94
Mean 0.006832
Std Dev 0.9018

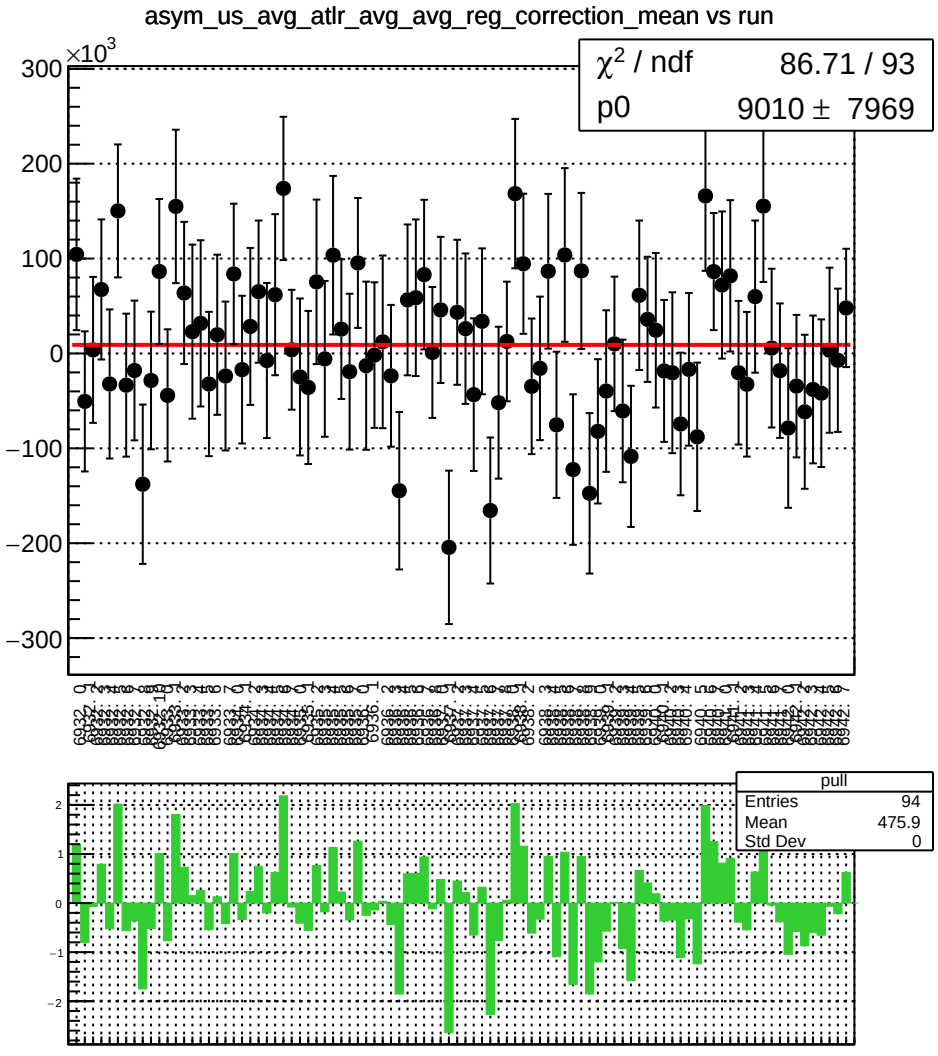

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.019e+04 / 93
p0 666.3 ± 0.5032
850
800
750
700
650
600
550

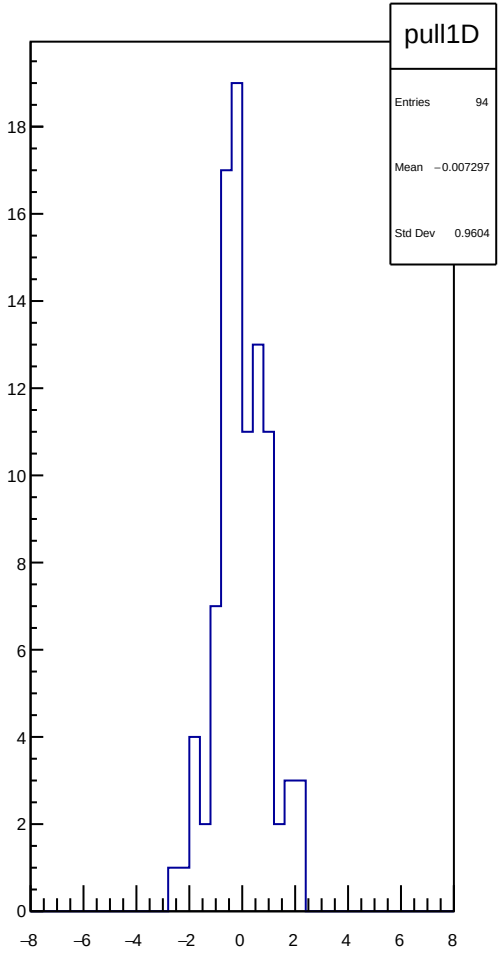

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.31 / 93
p0 7.659e−14 ± 2.183e−13
10
0
−10
−20
−30
pull
Entries 94
Mean 88.99
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.09132
Std Dev 0.9483
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

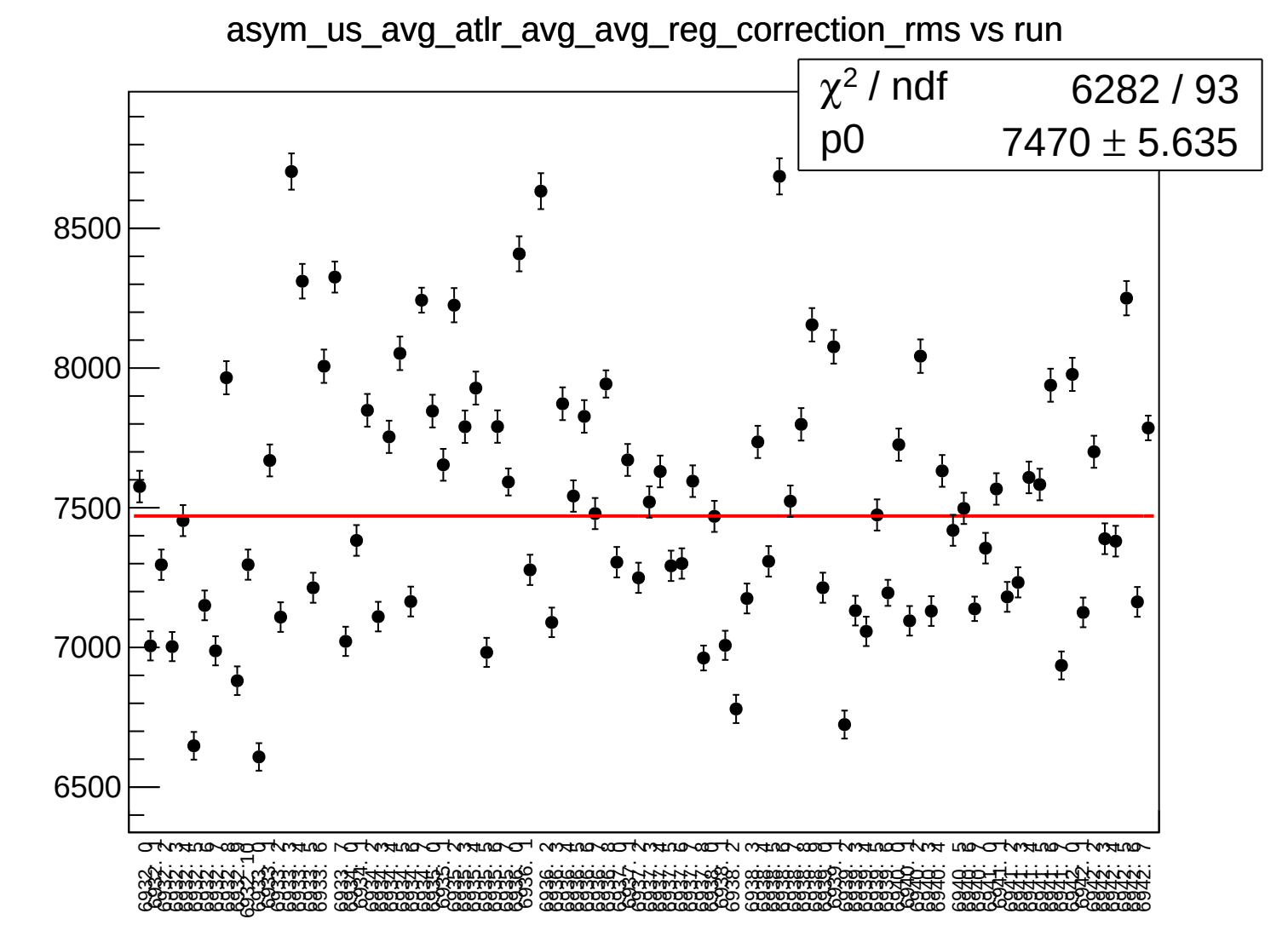

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.653e+05 / 93
p0 1.759e−10 ± 1.543e−13
1.2
1
0.8
0.6
0.4
0.2

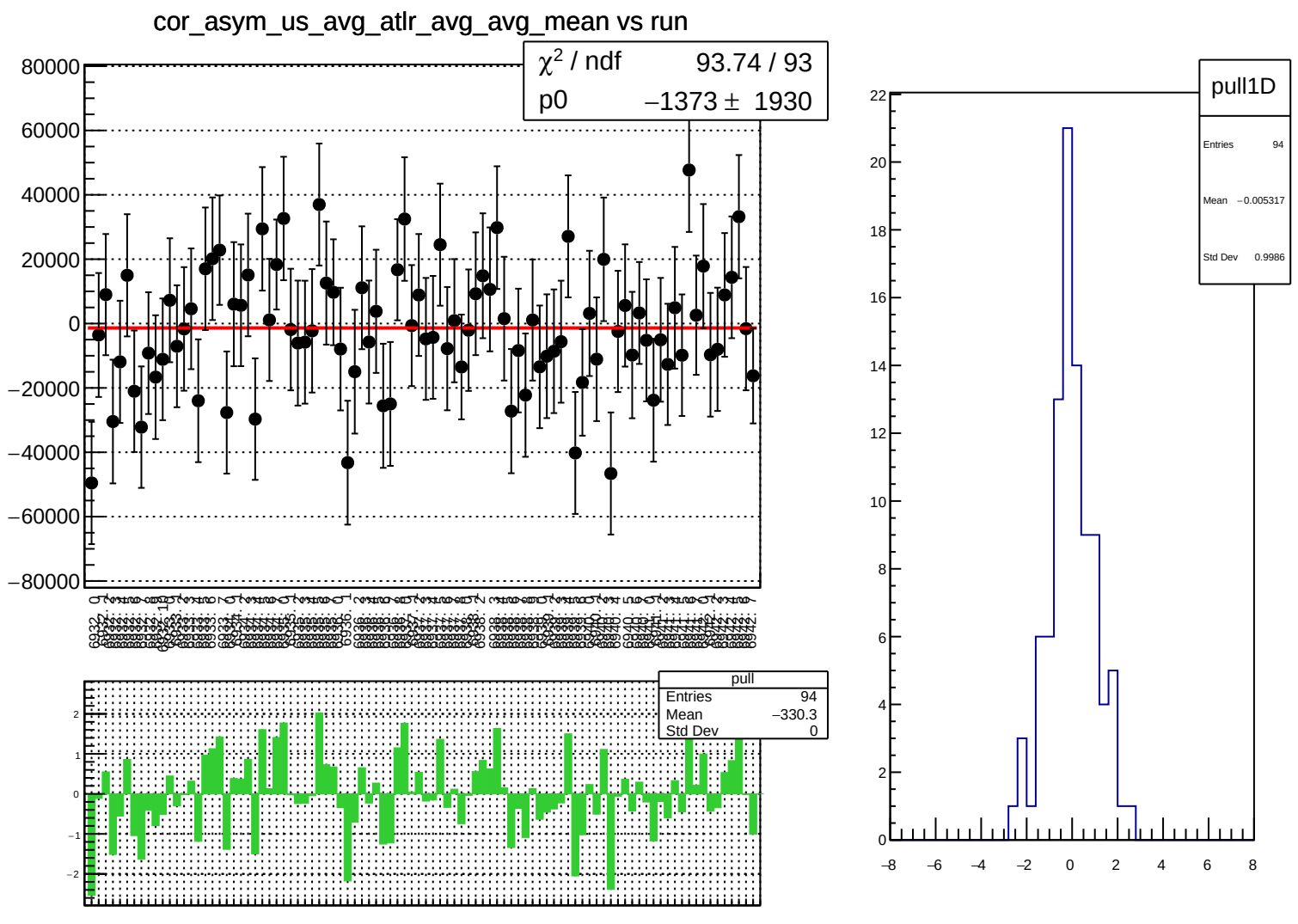

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.74 / 93
p0 −1373 ± 1930
pull
Entries 94
Mean −330
Std Dev 0
pull1D
Entries 94
Mean −0.005318
Std Dev 0.9986

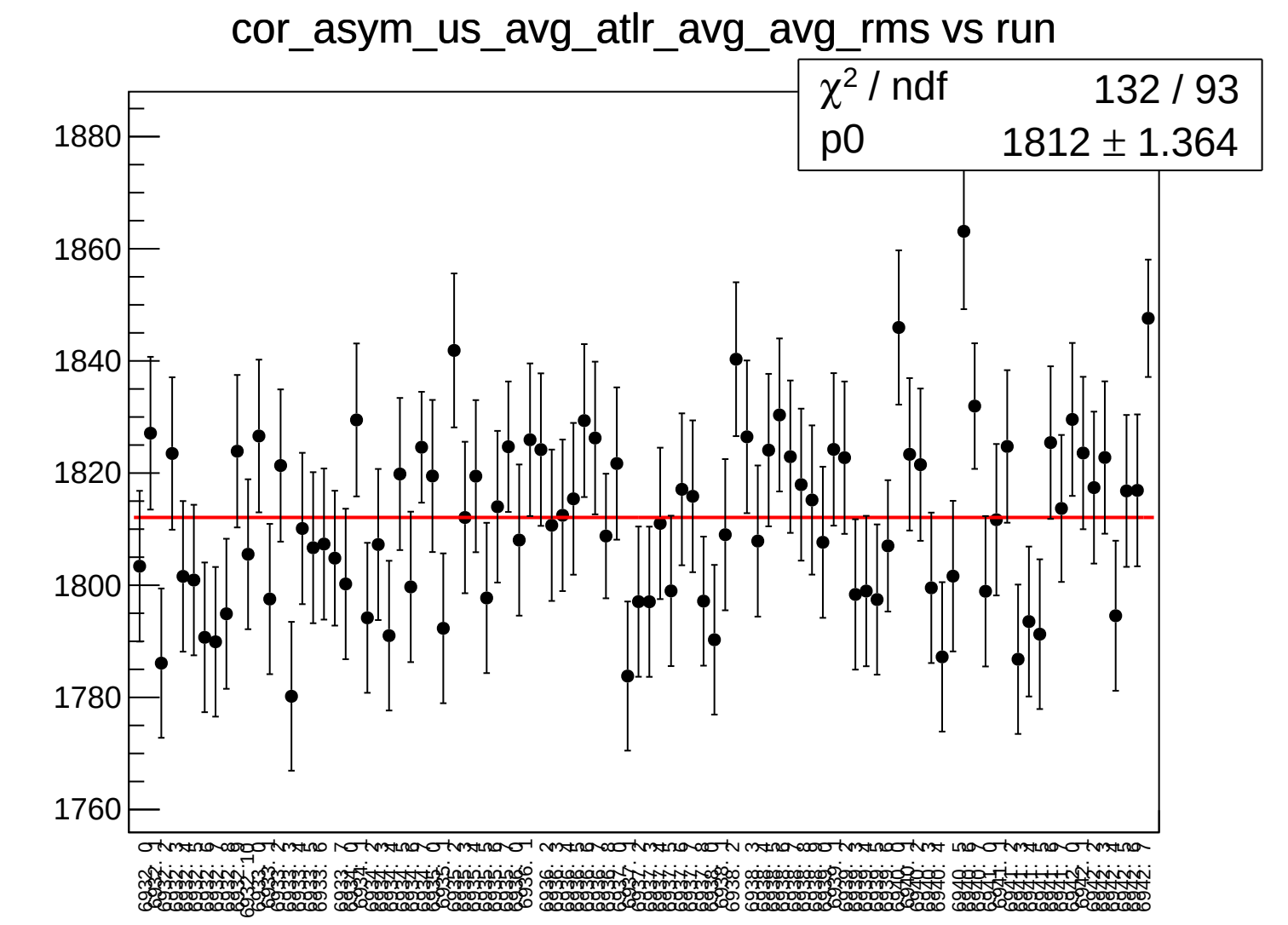

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132 / 93
p0 1812 ± 1.364
1880
1860
1840
1820
1800
1780
1760

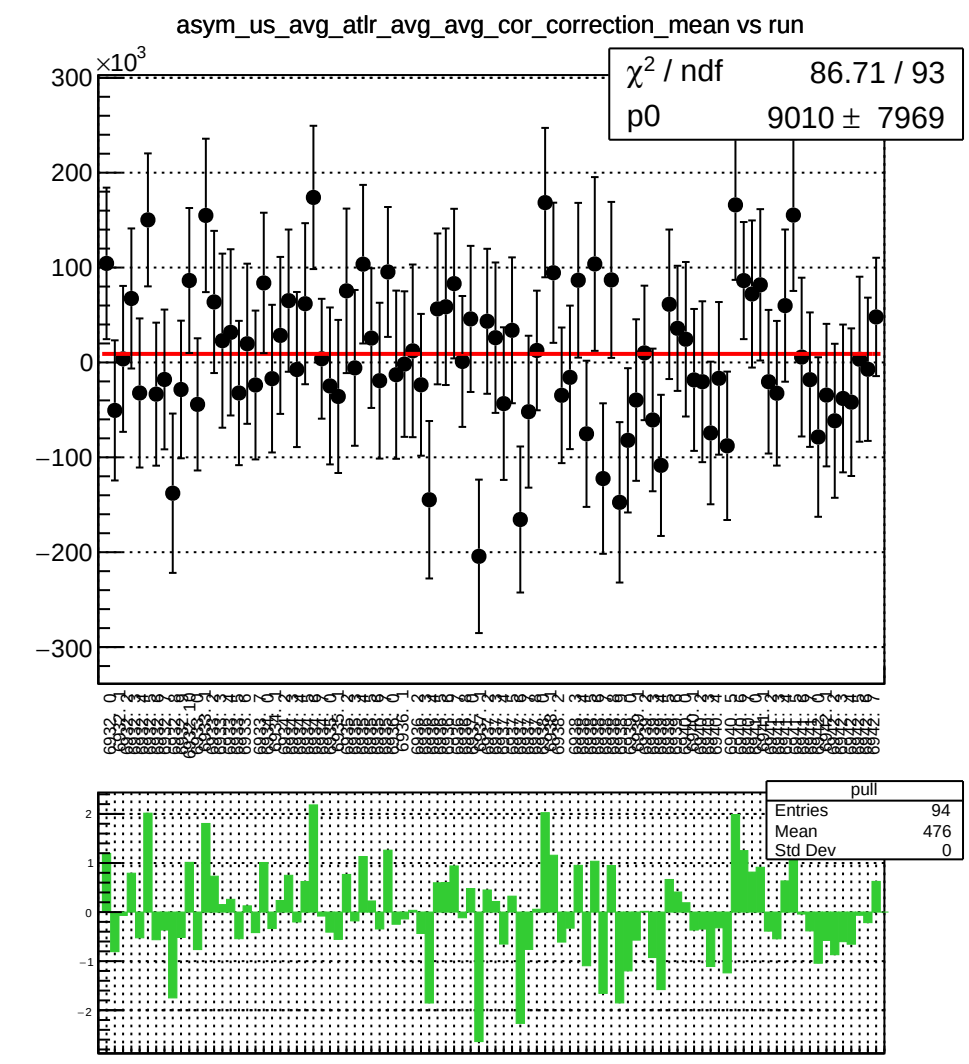

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 86.71 / 93
p0 9010 ± 7969
pull
Entries 94
Mean 475.9
Std Dev 0

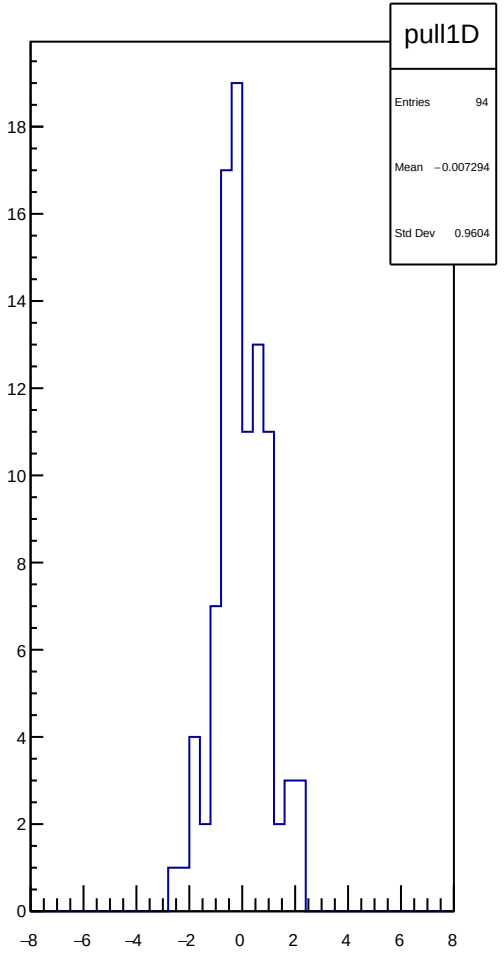

pull1D
Entries 94
Mean −0.007297
Std Dev 0.9604

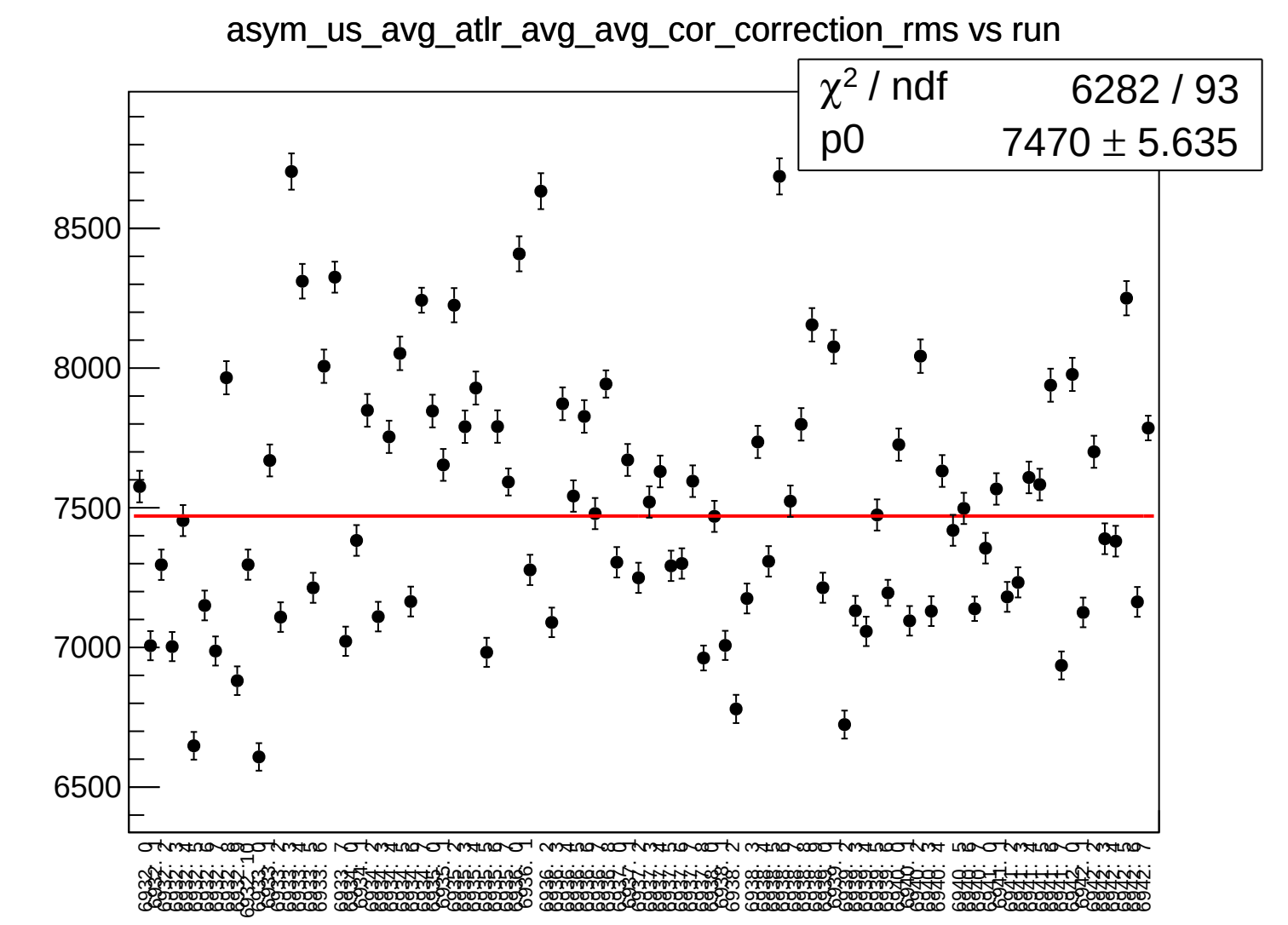

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 6282 / 93
p0 7470 ± 5.635
8500
8000
7500
7000
6500

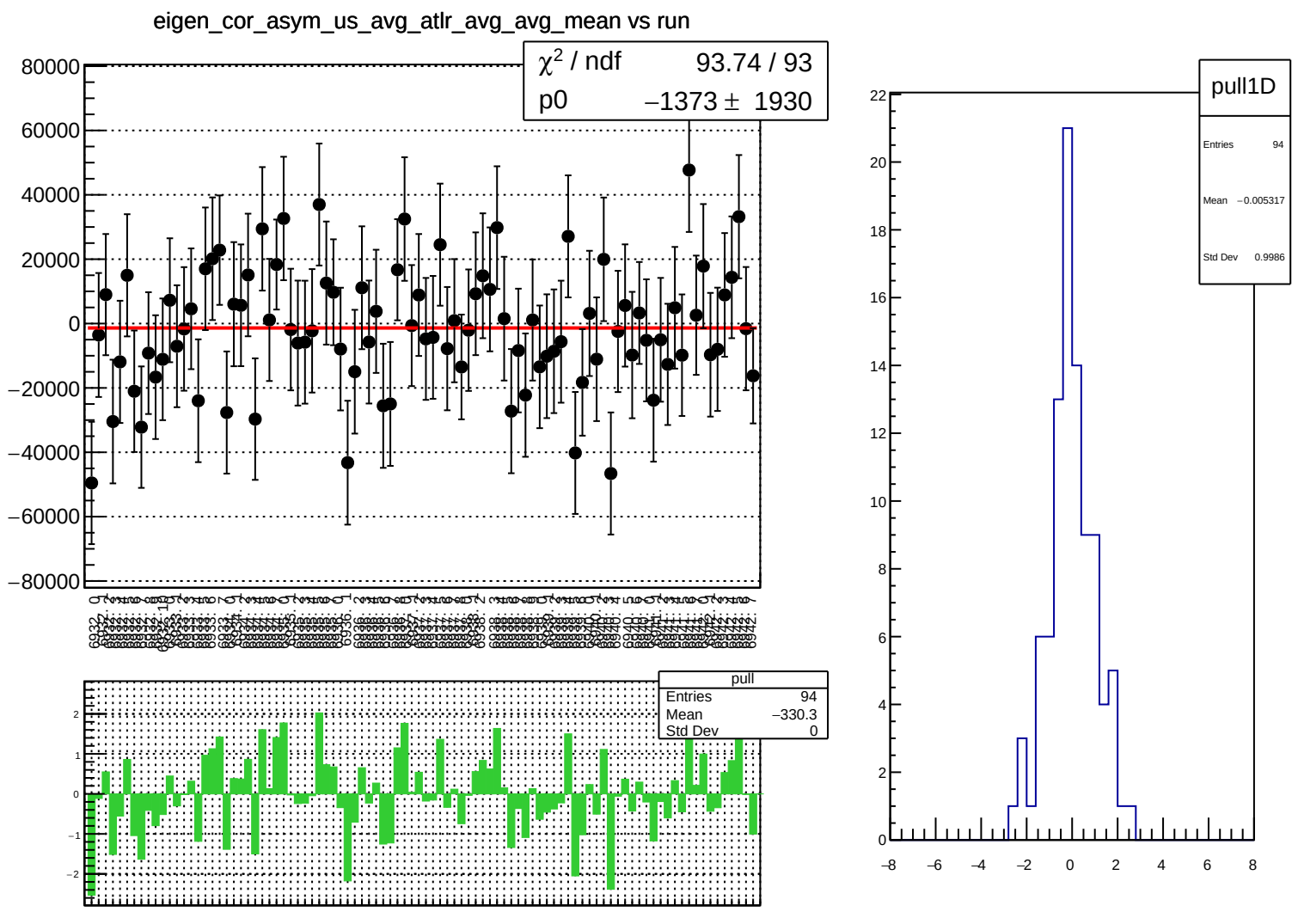

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.74 / 93
p0 −1373 ± 1930
pull
Entries 94
Mean −330.3
Std Dev 0
pull1D
Entries 94
Mean −0.005317
Std Dev 0.9986

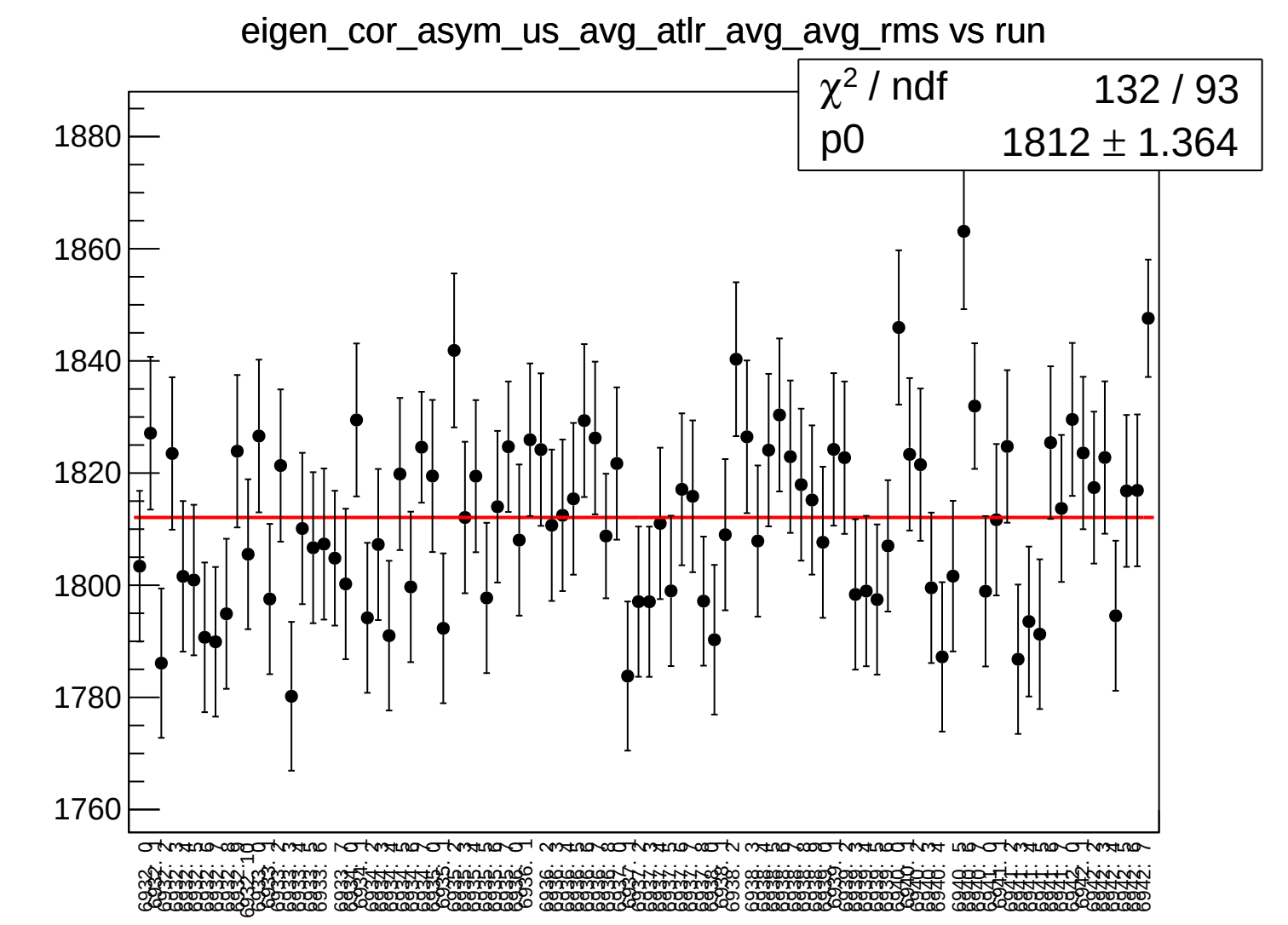

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 132 / 93
p0 1812 ± 1.364
1880
1860
1840
1820
1800
1780
1760

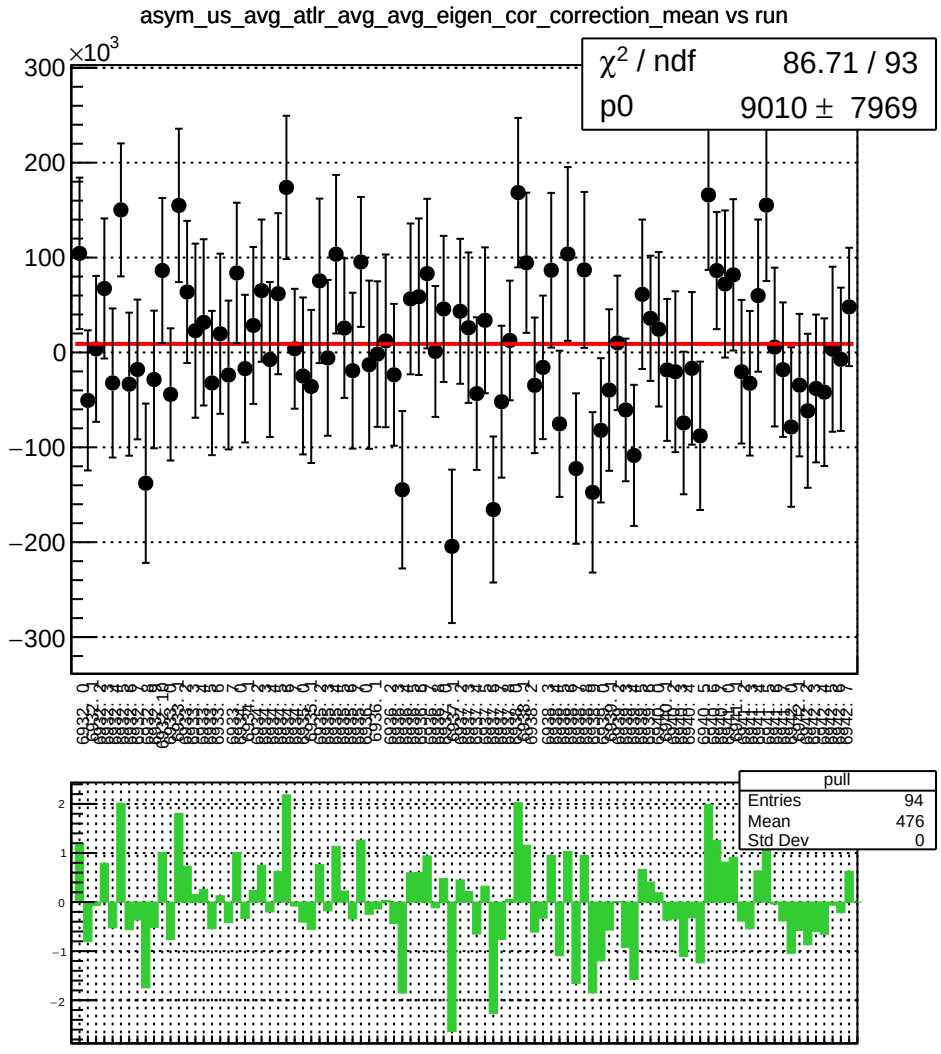

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
300
200
100
0
−100
−200
−300
χ² / ndf 86.71 / 93
p0 9010 ± 7969
pull
Entries 94
Mean 476
Std Dev 0
2
1
0
−1
−2

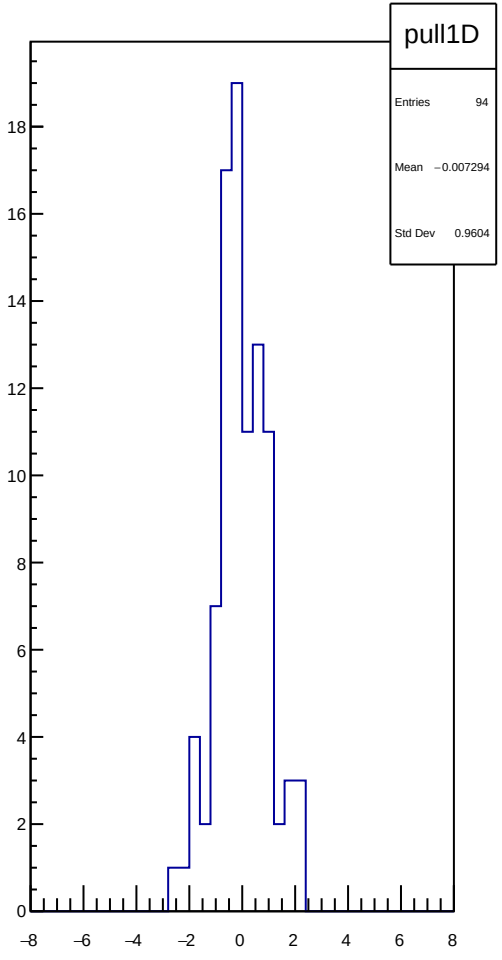

pull1D
Entries 94
Mean −0.007294
Std Dev 0.9604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

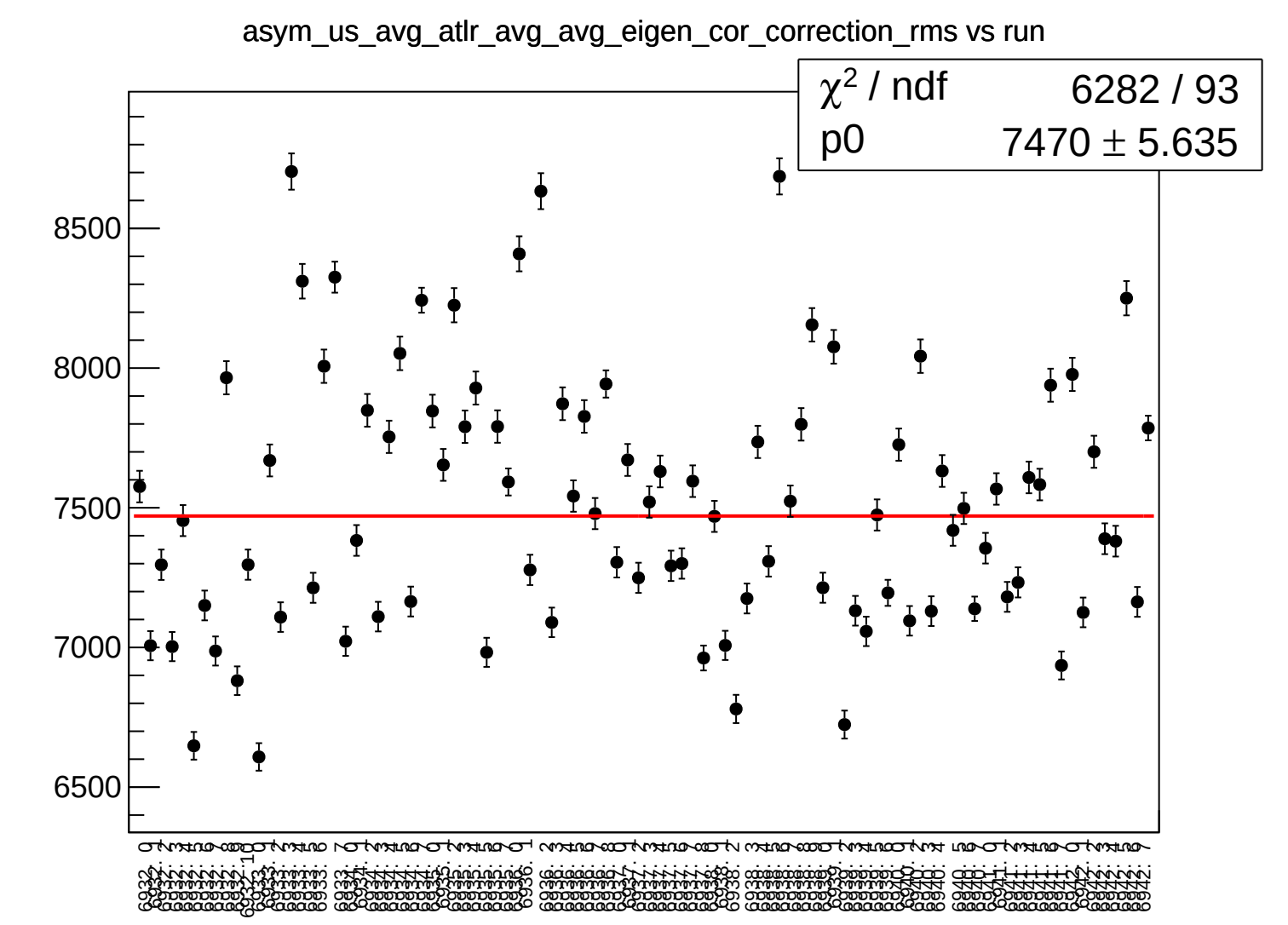

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 6282 / 93
p0 7470 ± 5.635
8500
8000
7500
7000
6500

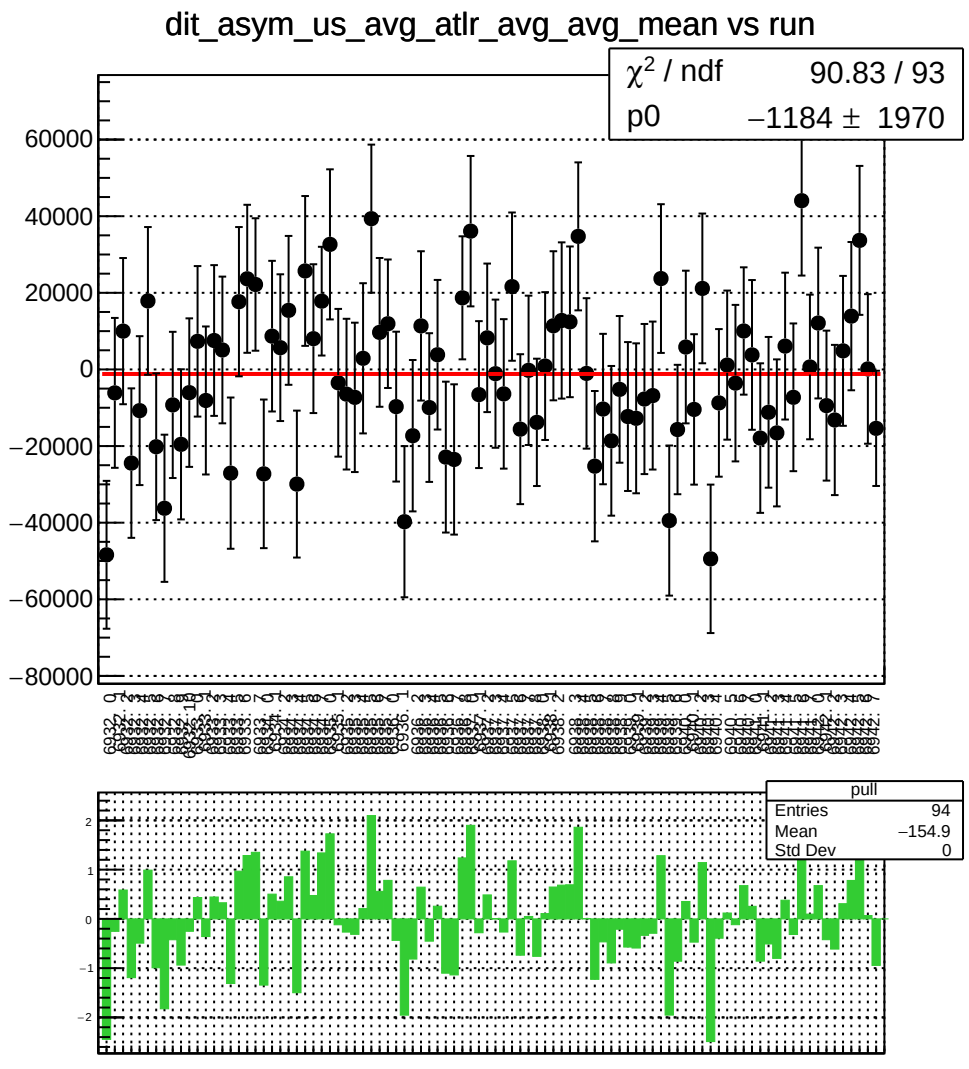

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.74 / 93
p0 −1373 ± 1930
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −330.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005317
Std Dev 0.9986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

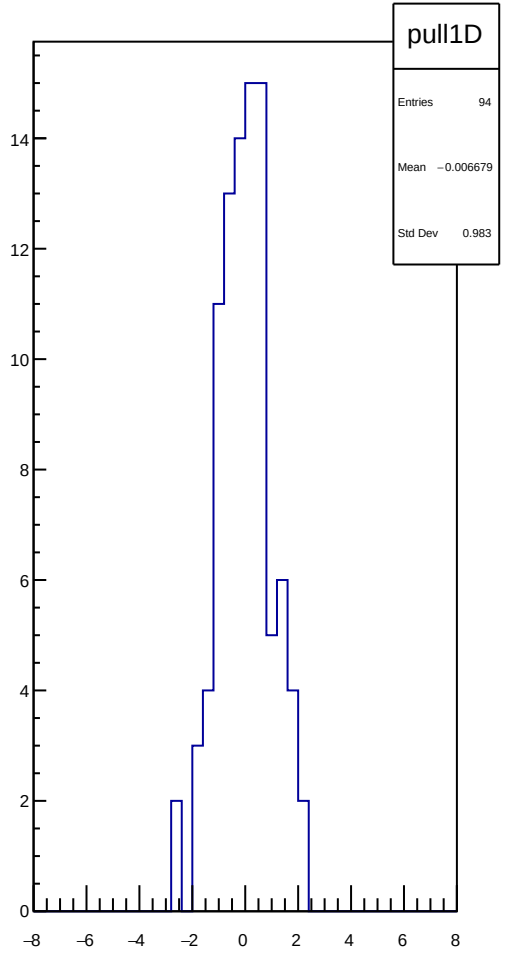

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 132 / 93
p0 1812 ± 1.364
1880
1860
1840
1820
1800
1780
1760

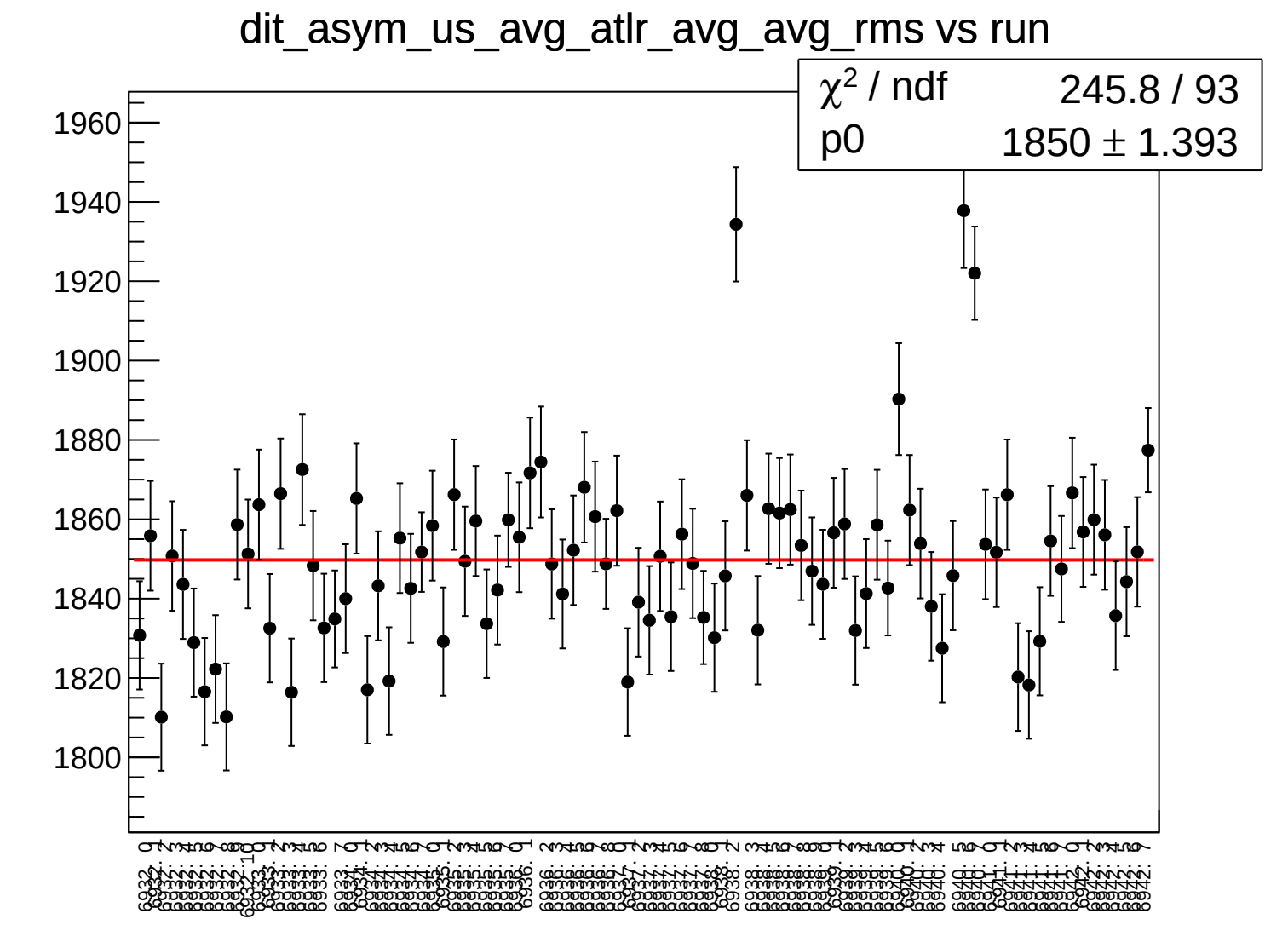

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 86.71 / 93
p0 9010 ± 7969
pull
Entries 94
Mean 476
Std Dev 0

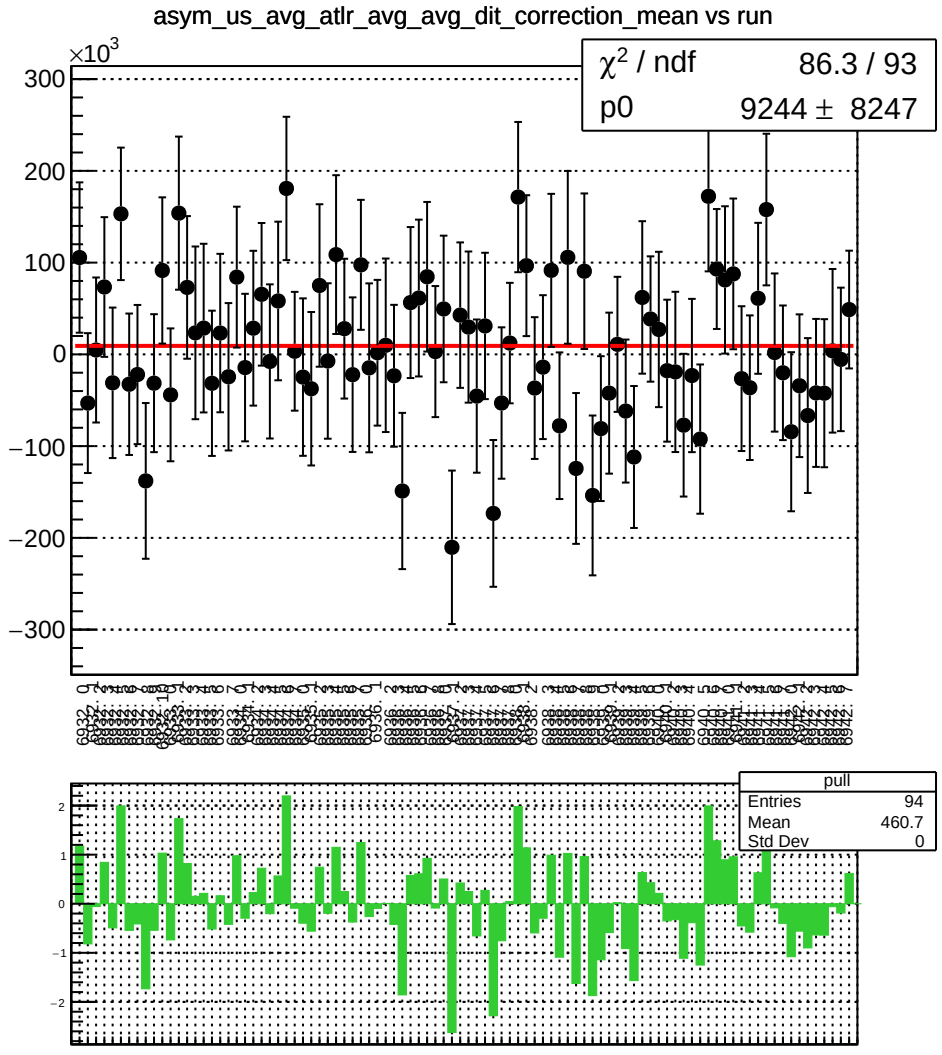

pull1D
Entries 94
Mean −0.007294
Std Dev 0.9604

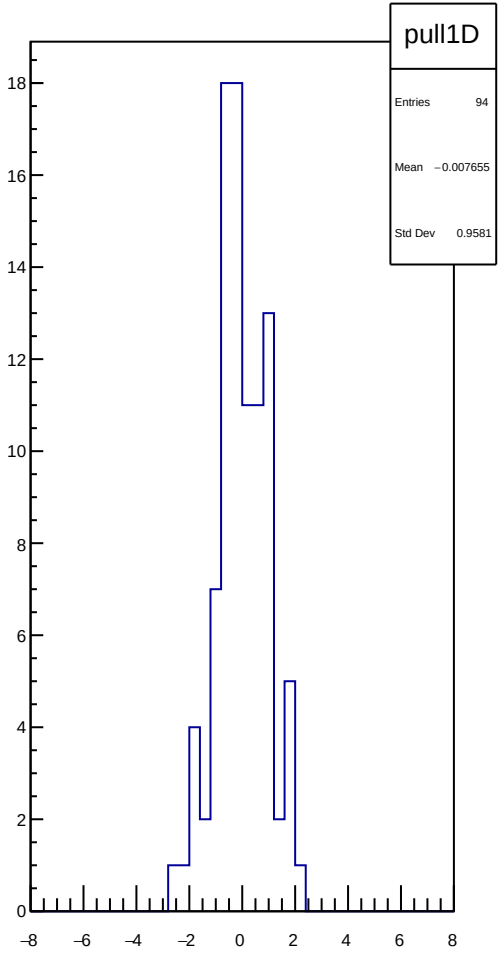

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6282 / 93
p0 7470 ± 5.635
8500
8000
7500
7000
6500

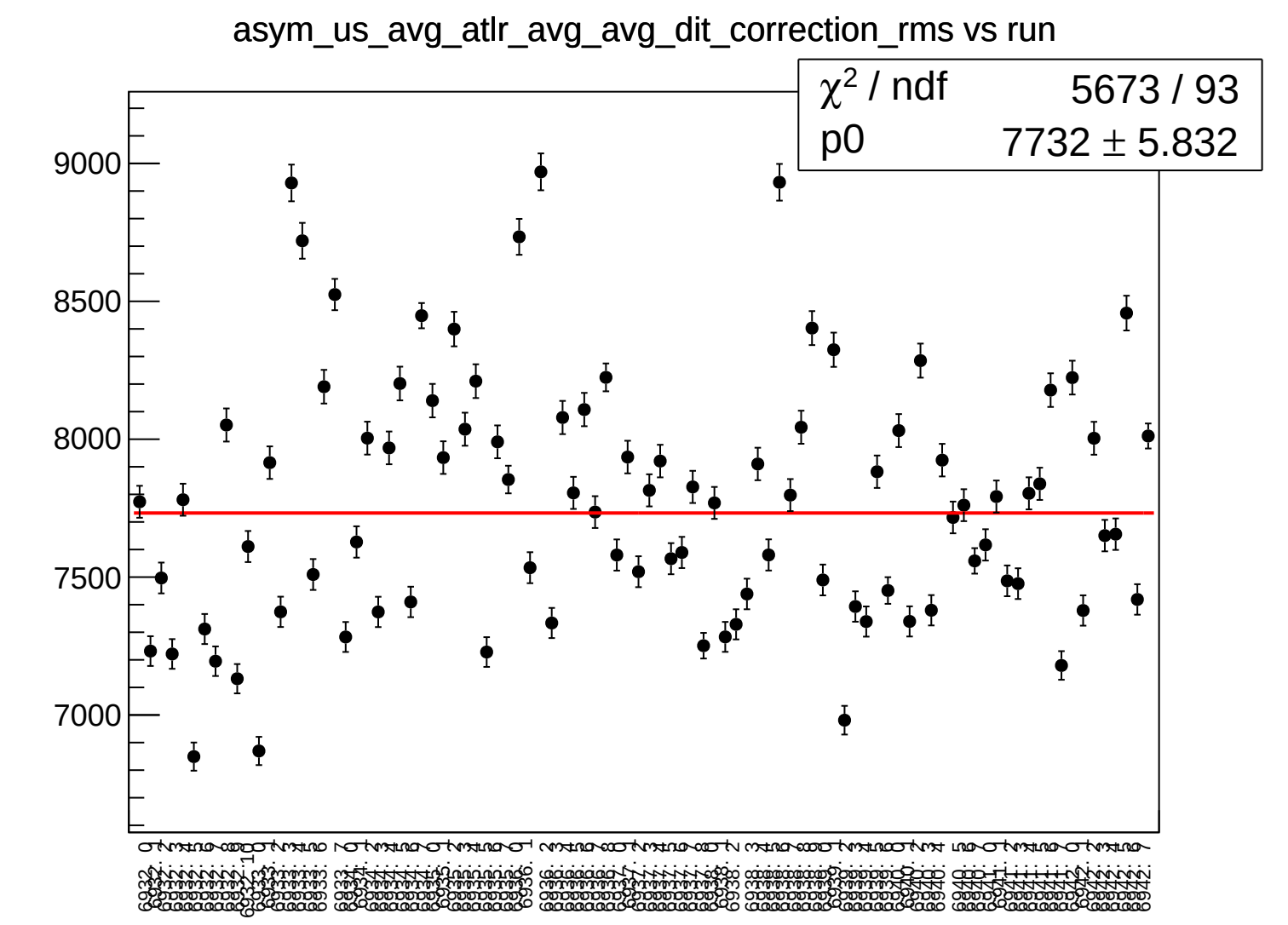

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.83 / 93
p0 −1184 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −154.9
Std Dev 0
2
1
0
−1
−2

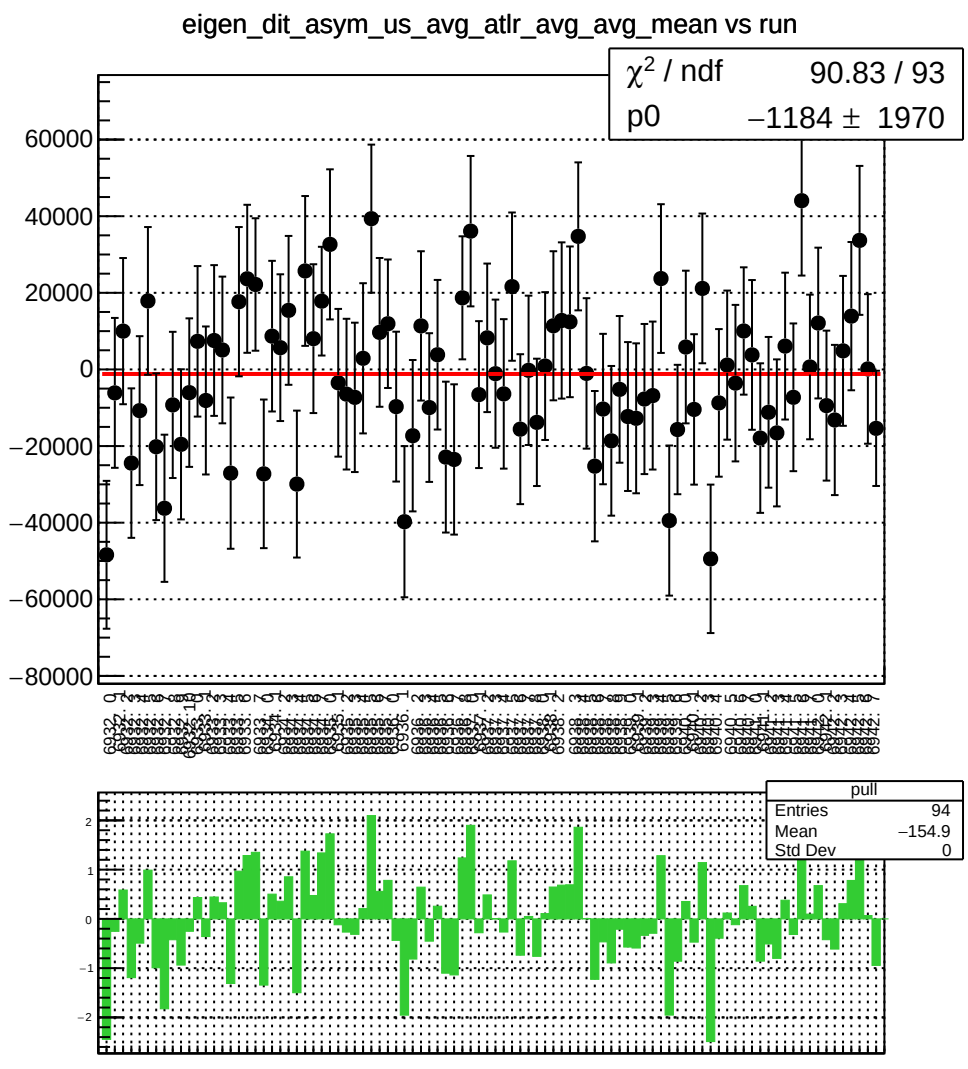

pull1D
Entries 94
Mean −0.006679
Std Dev 0.983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

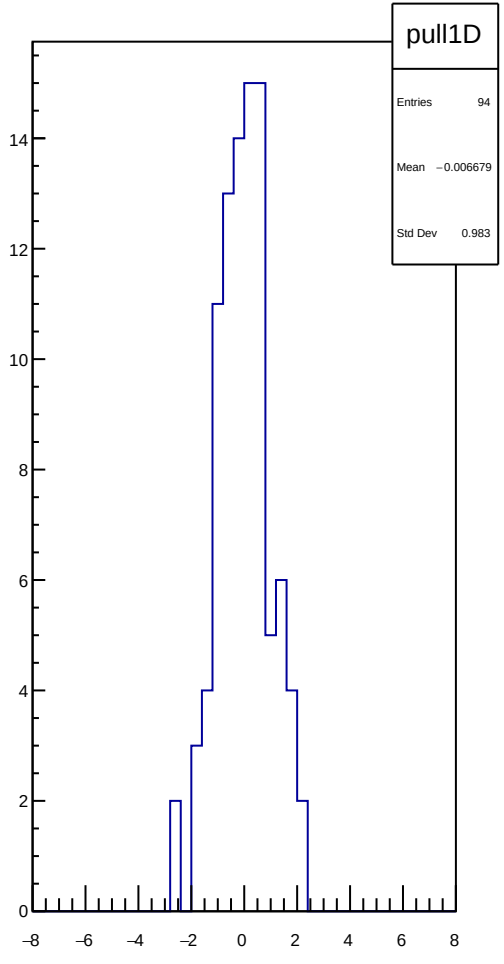

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 245.8 / 93
p0 1850 ± 1.393
1960
1940
1920
1900
1880
1860
1840
1820
1800

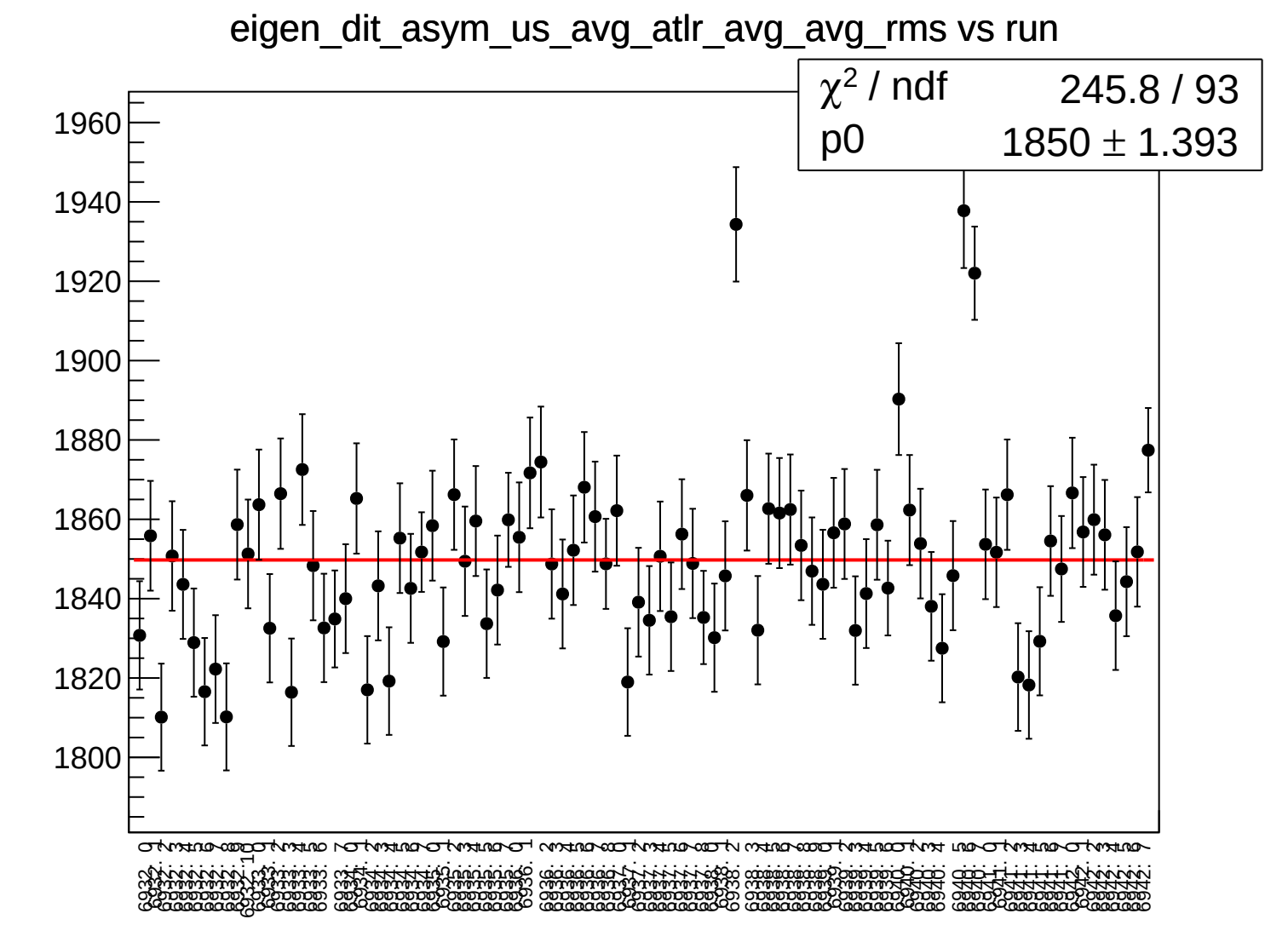

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 93
p0 9244 ± 8247
pull
Entries 94
Mean 460.7
Std Dev 0

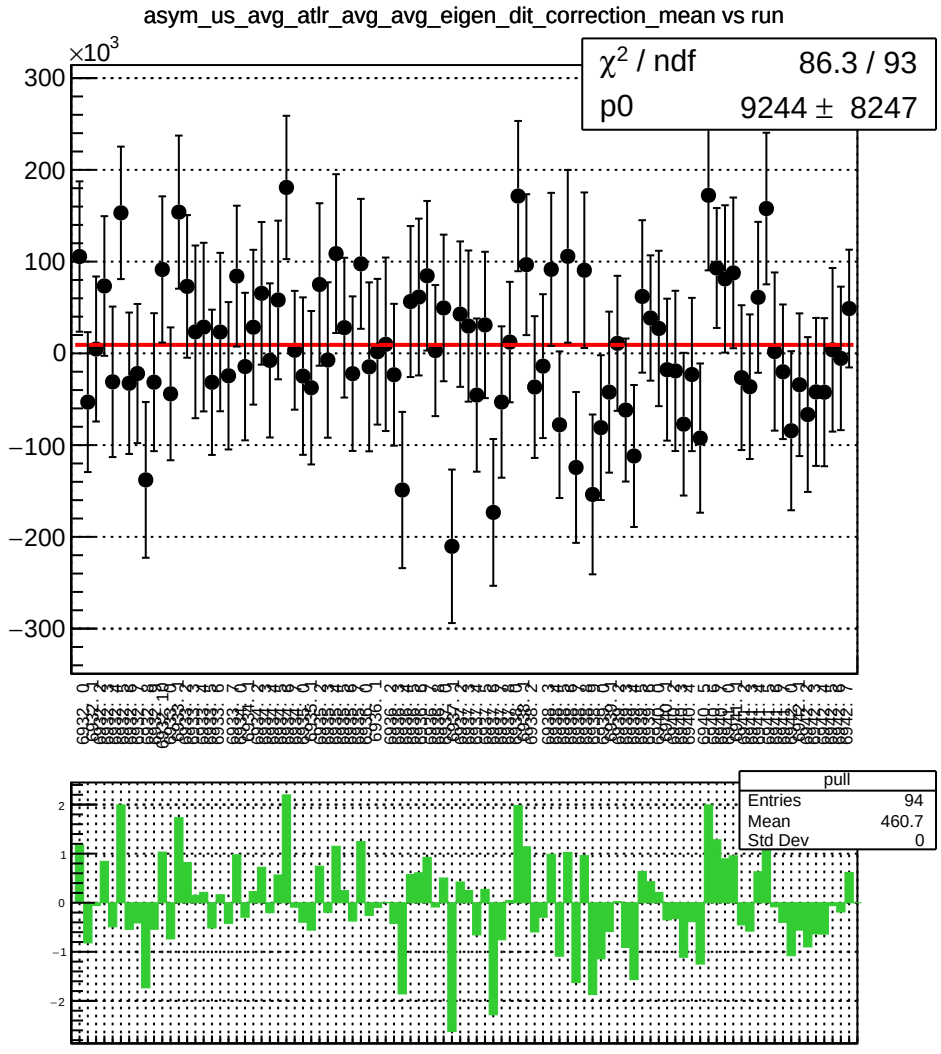

pull1D
Entries 94
Mean −0.007655
Std Dev 0.9581

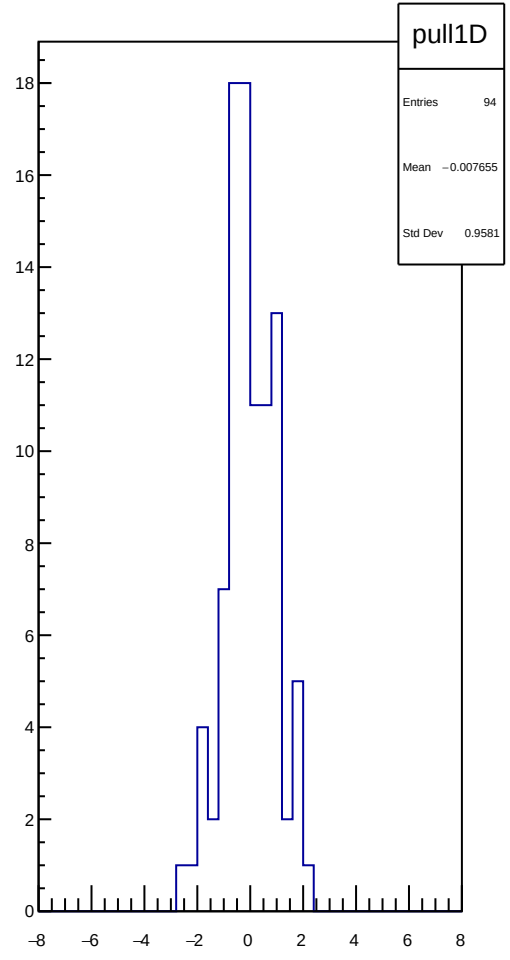

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 5673 / 93
p0 7732 ± 5.832
9000
8500
8000
7500
7000

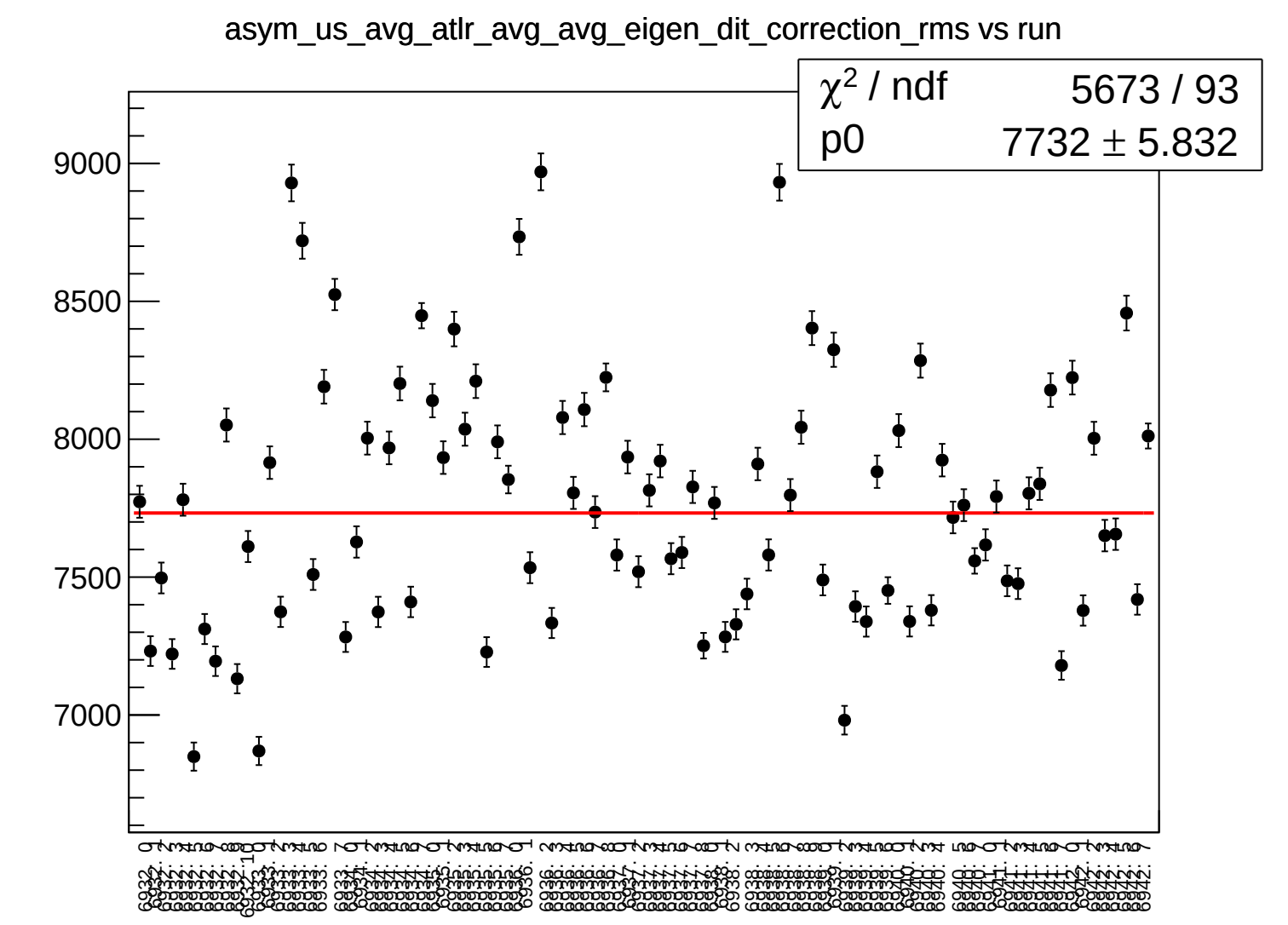

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 90.83 / 93
p0 −1184 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −154.9
Std Dev 0
2
1
0
−1
−2

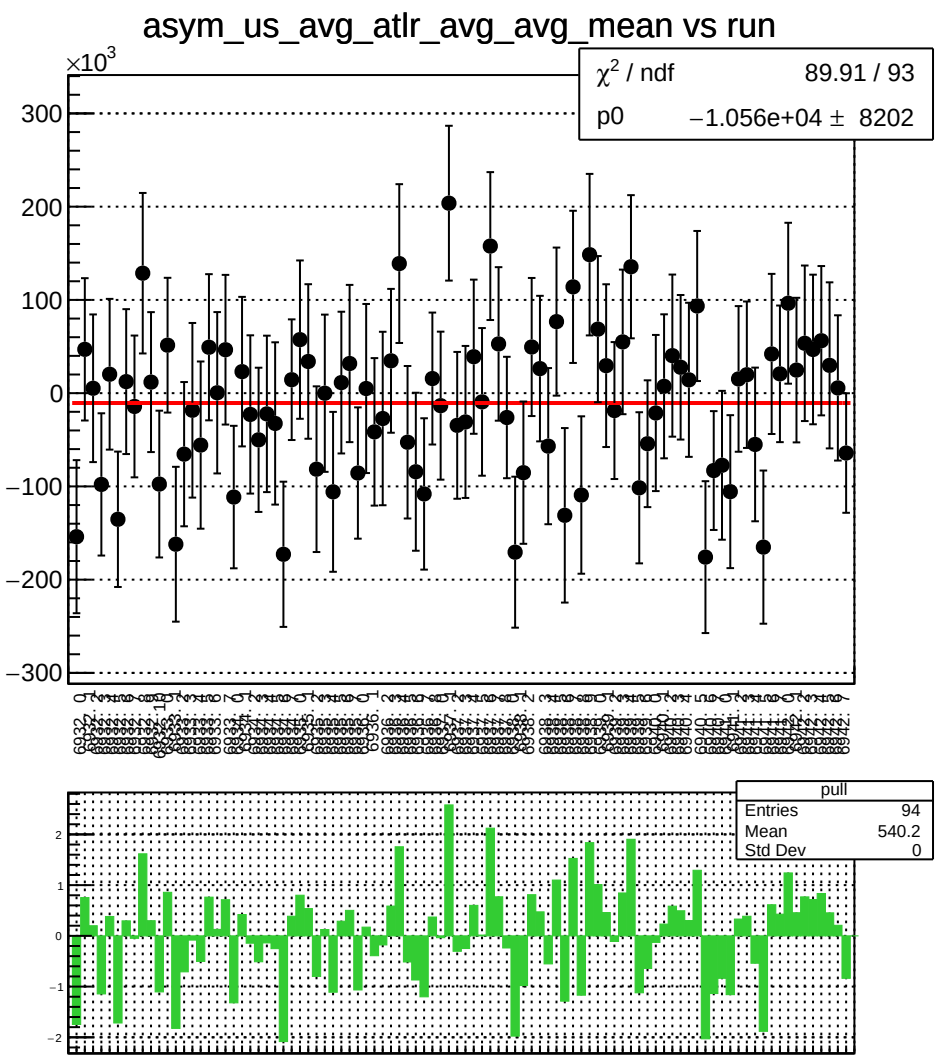

pull1D
Entries 94
Mean −0.006679
Std Dev 0.983
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

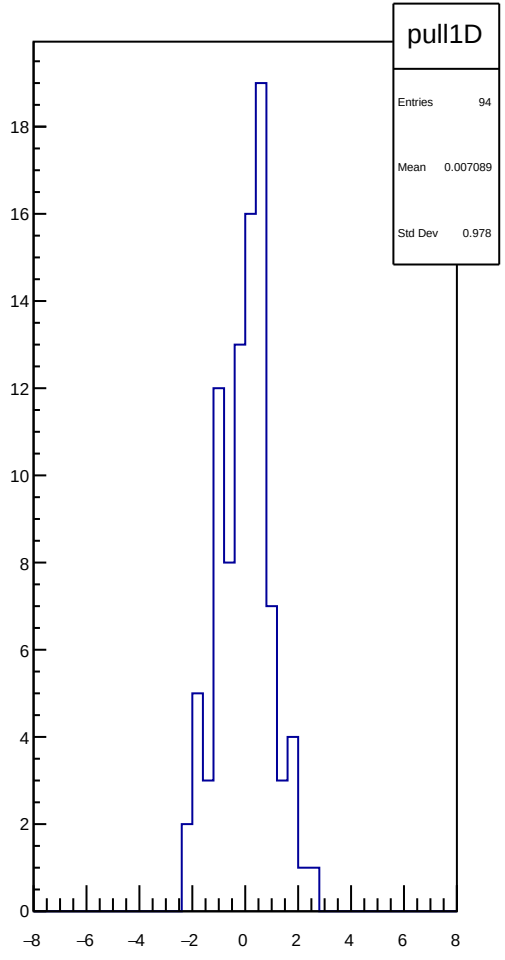

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 245.8 / 93
p0 1850 ± 1.393
1960
1940
1920
1900
1880
1860
1840
1820
1800

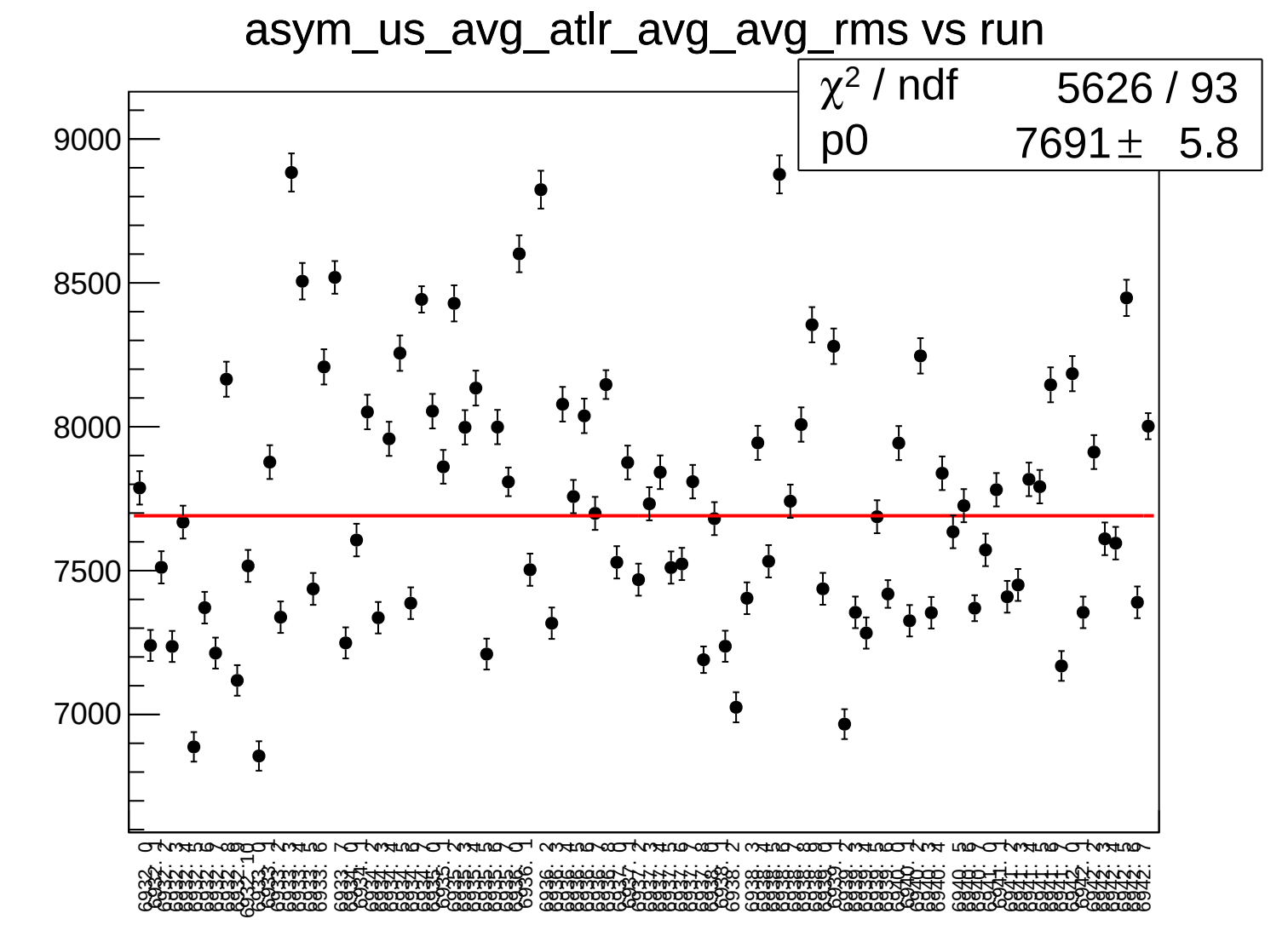

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 93
p0 9244 ± 8247
pull
Entries 94
Mean 460.7
Std Dev 0

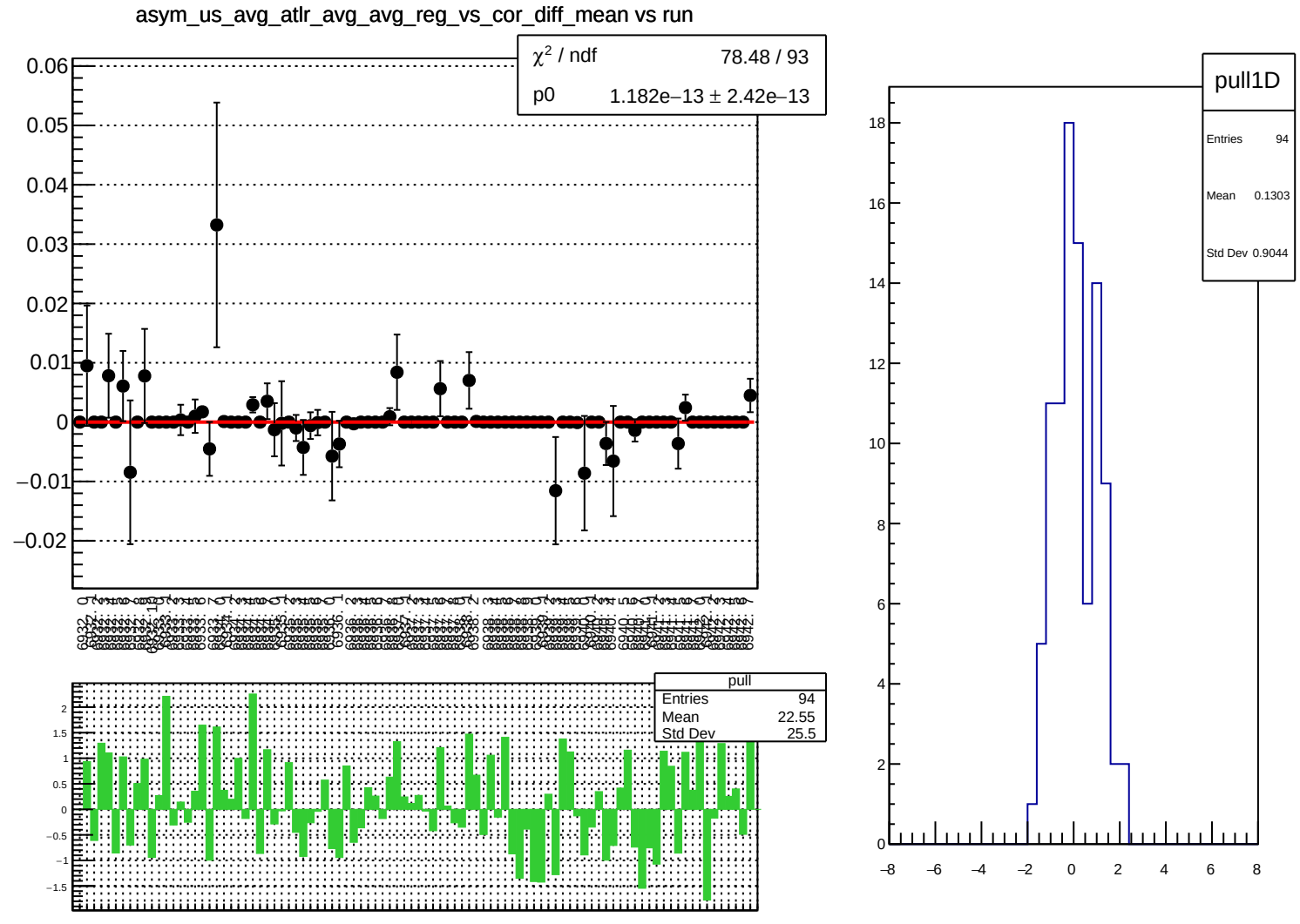

pull1D
Entries 94
Mean −0.007655
Std Dev 0.9581

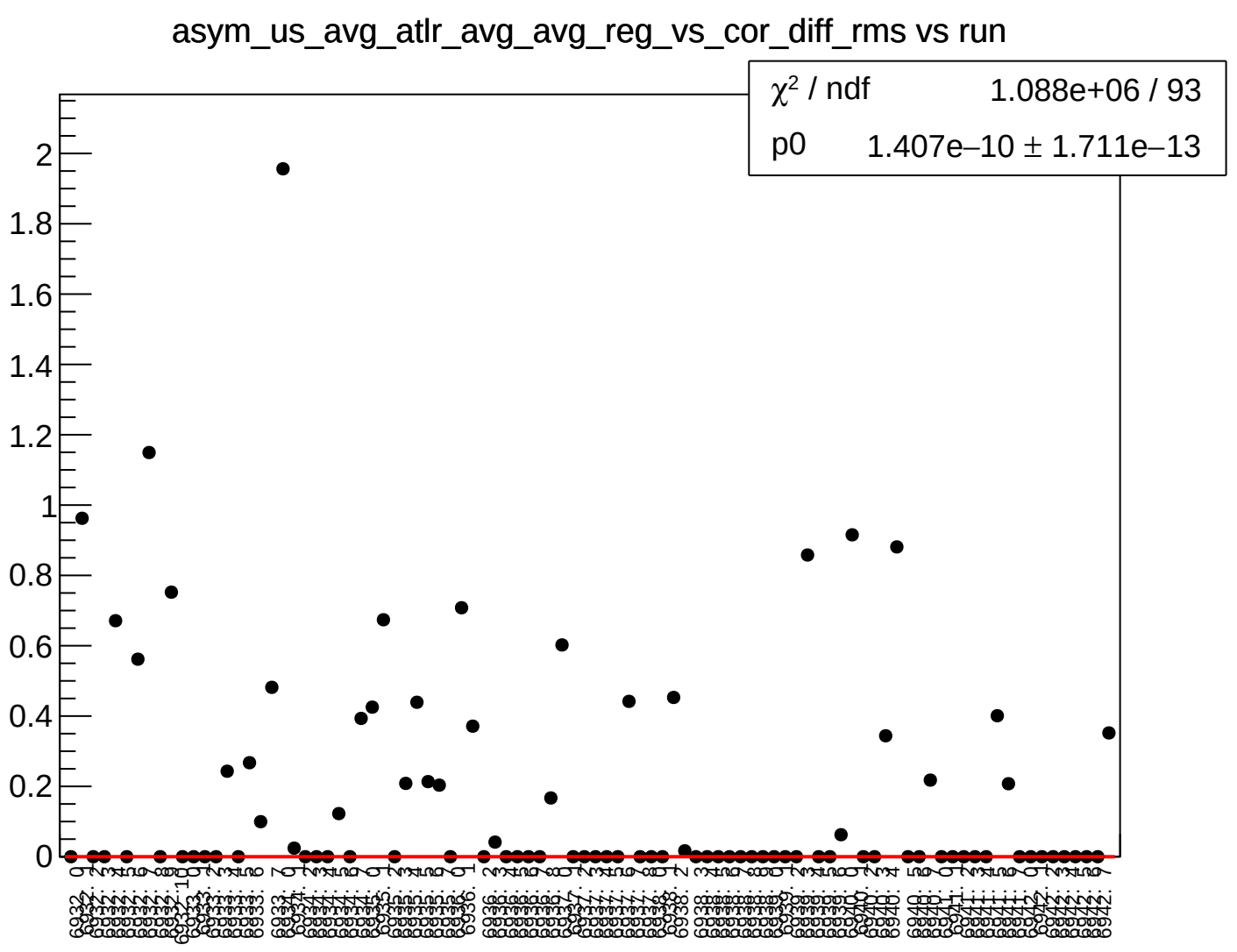

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5673 / 93
p0 7732 ± 5.832
9000
8500
8000
7500
7000

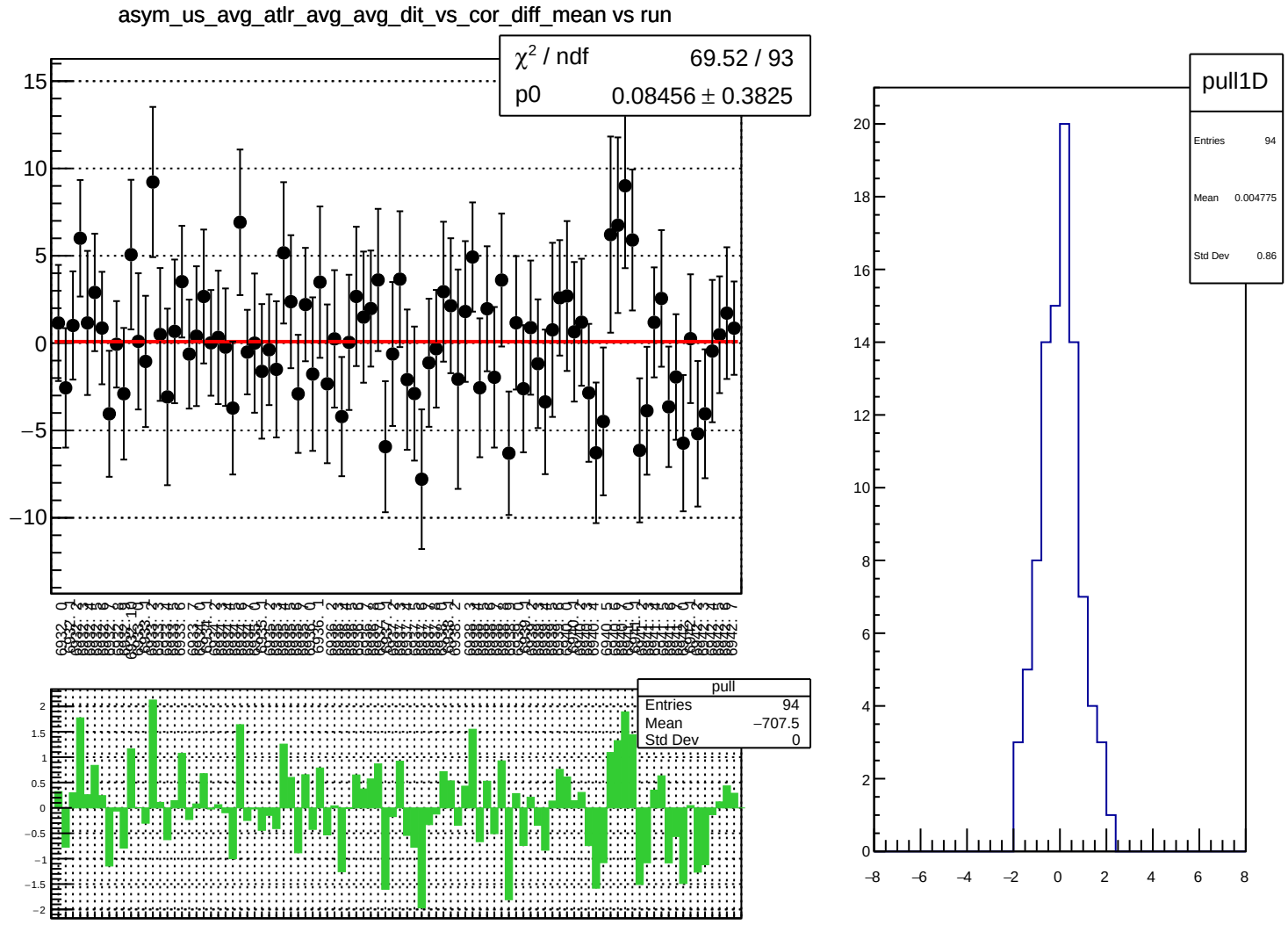

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 89.91 / 93
p0 −1.056e+04 ± 8202
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 540.2
Std Dev 0
2
1
0
−1
−2

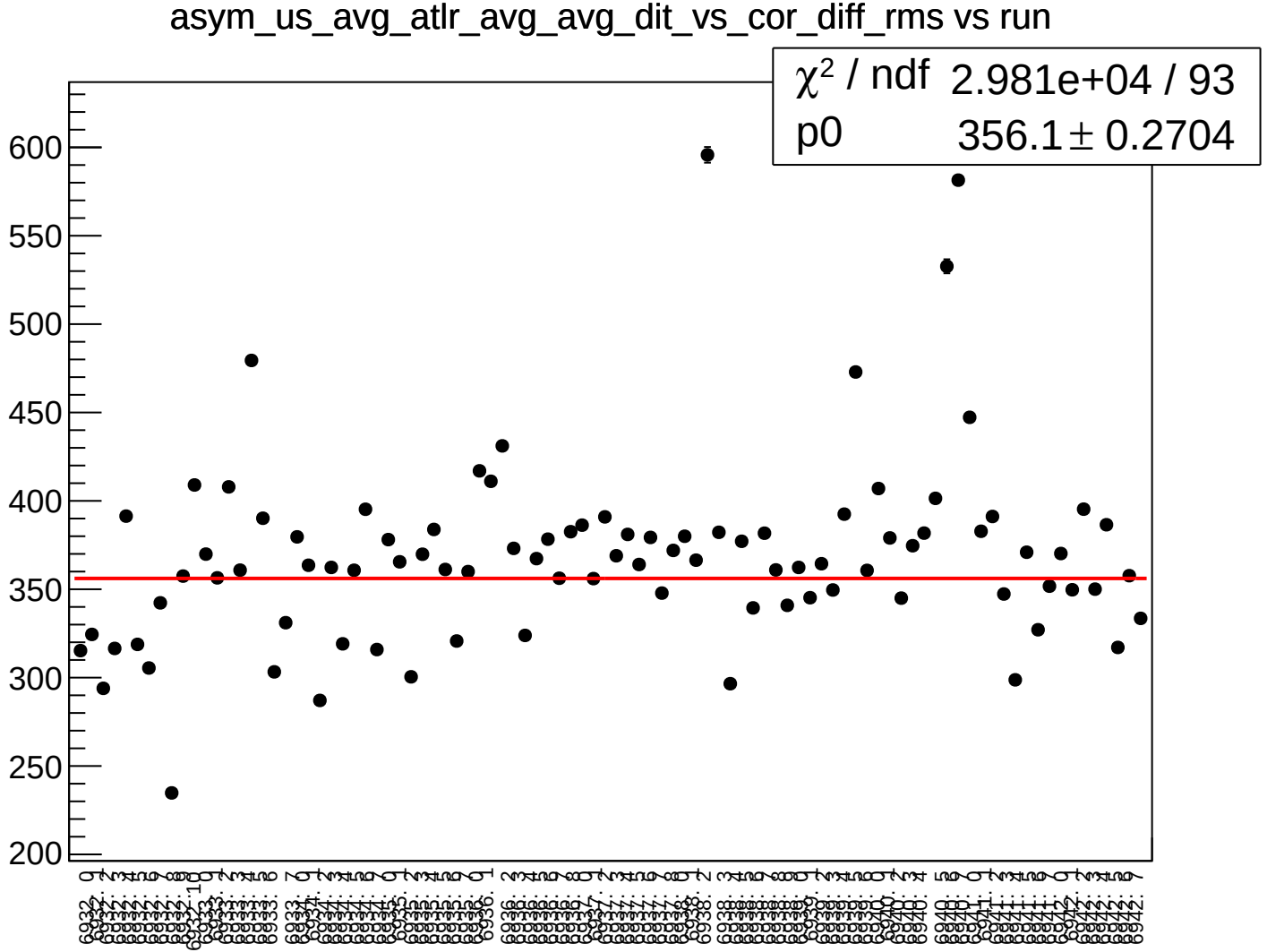

pull1D
Entries 94
Mean 0.007089
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

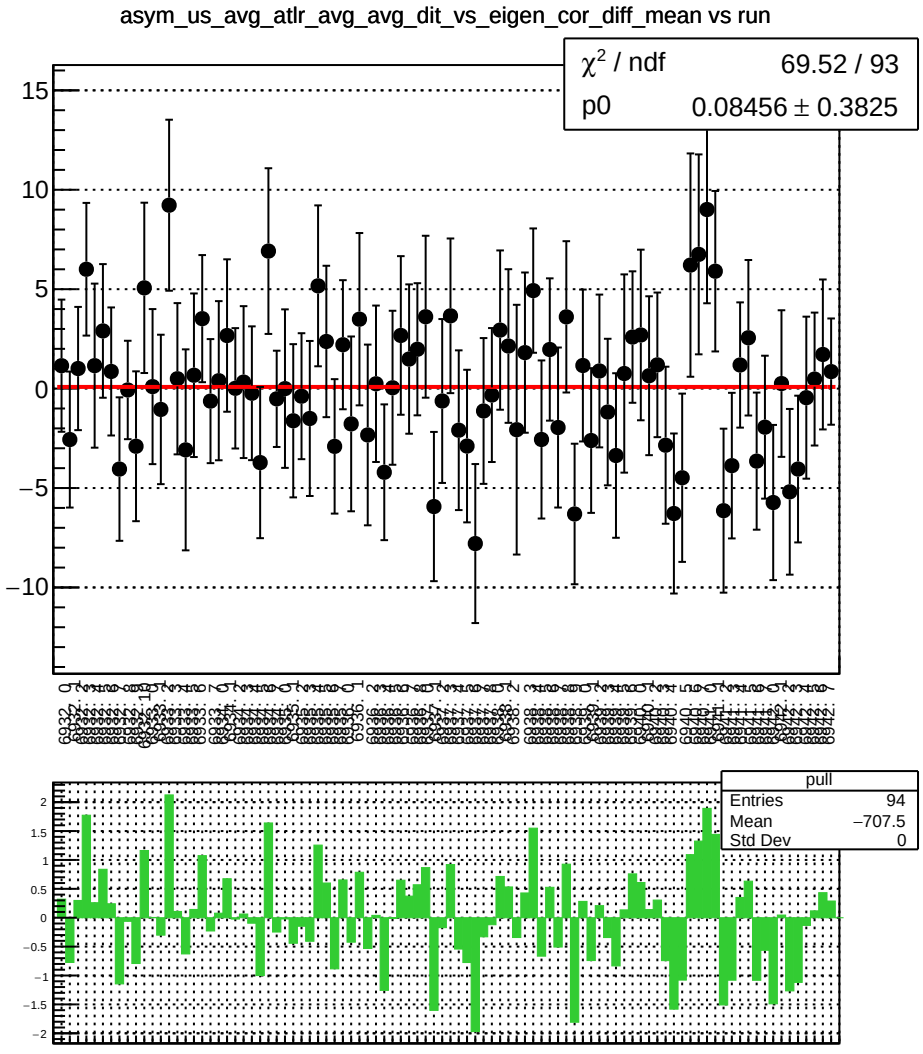

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 5626 / 93
p0 7691 ± 5.8
9000
8500
8000
7500
7000

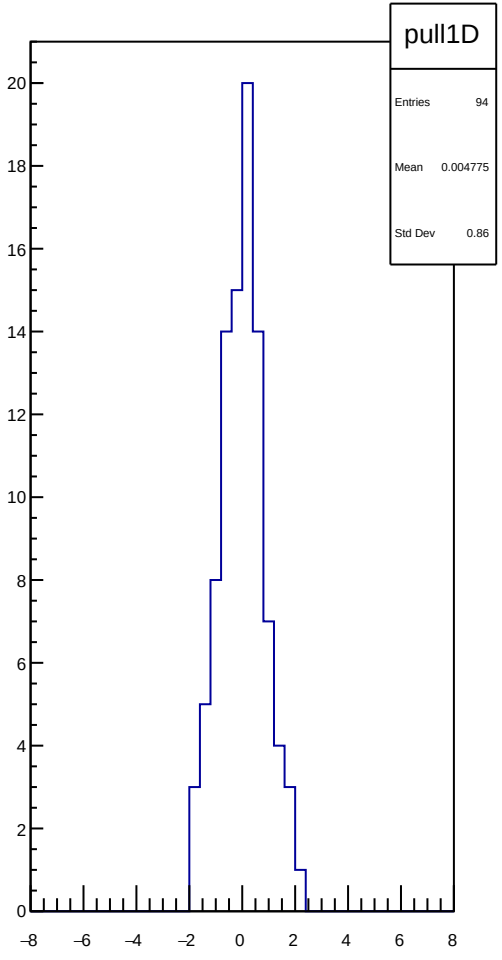

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.48 / 93
p0 1.182e−13 ± 2.42e−13
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 22.55
Std Dev 25.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.1303
Std Dev 0.9044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

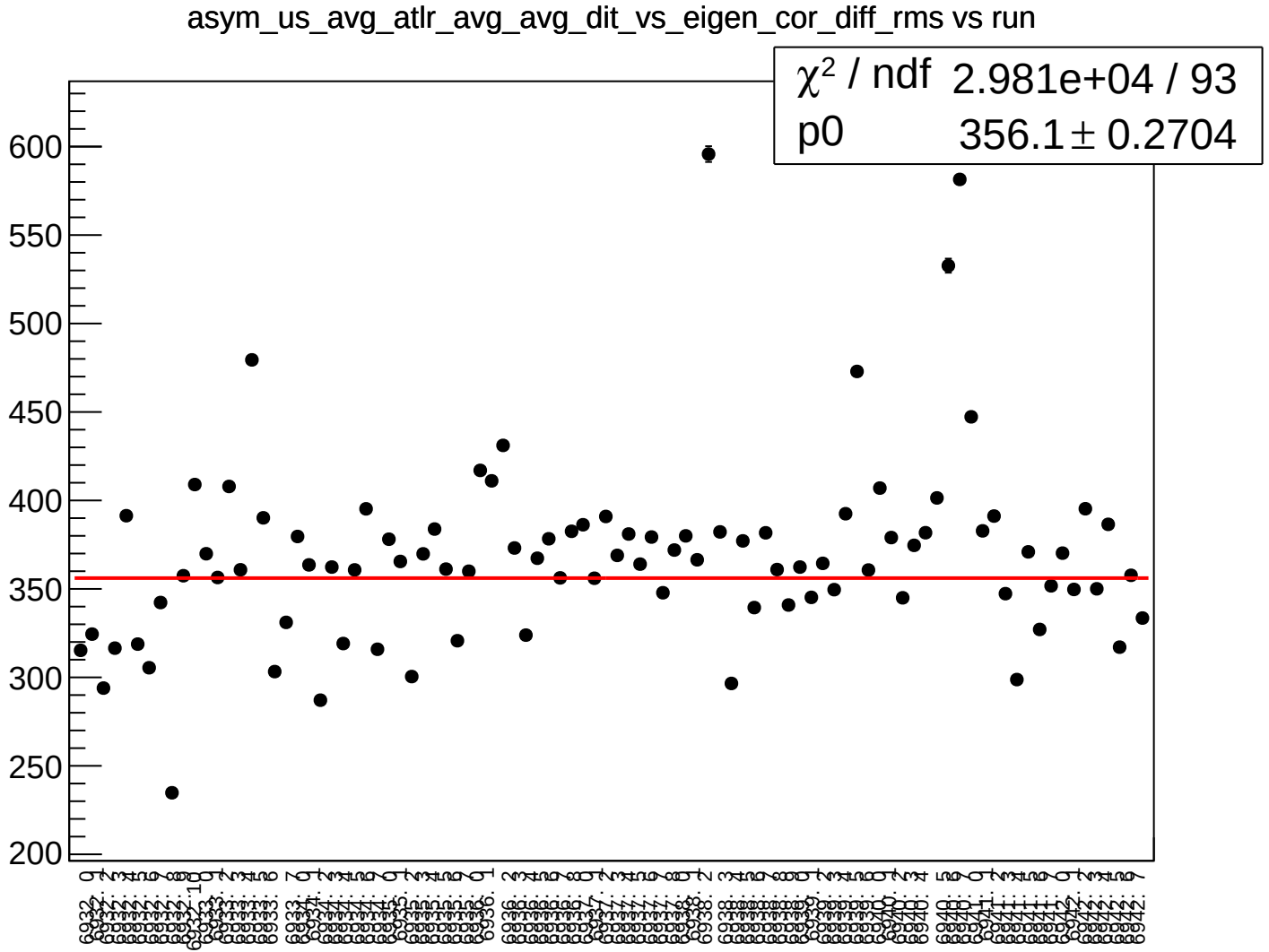

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 93
p0 1.407e−10 ± 1.711e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

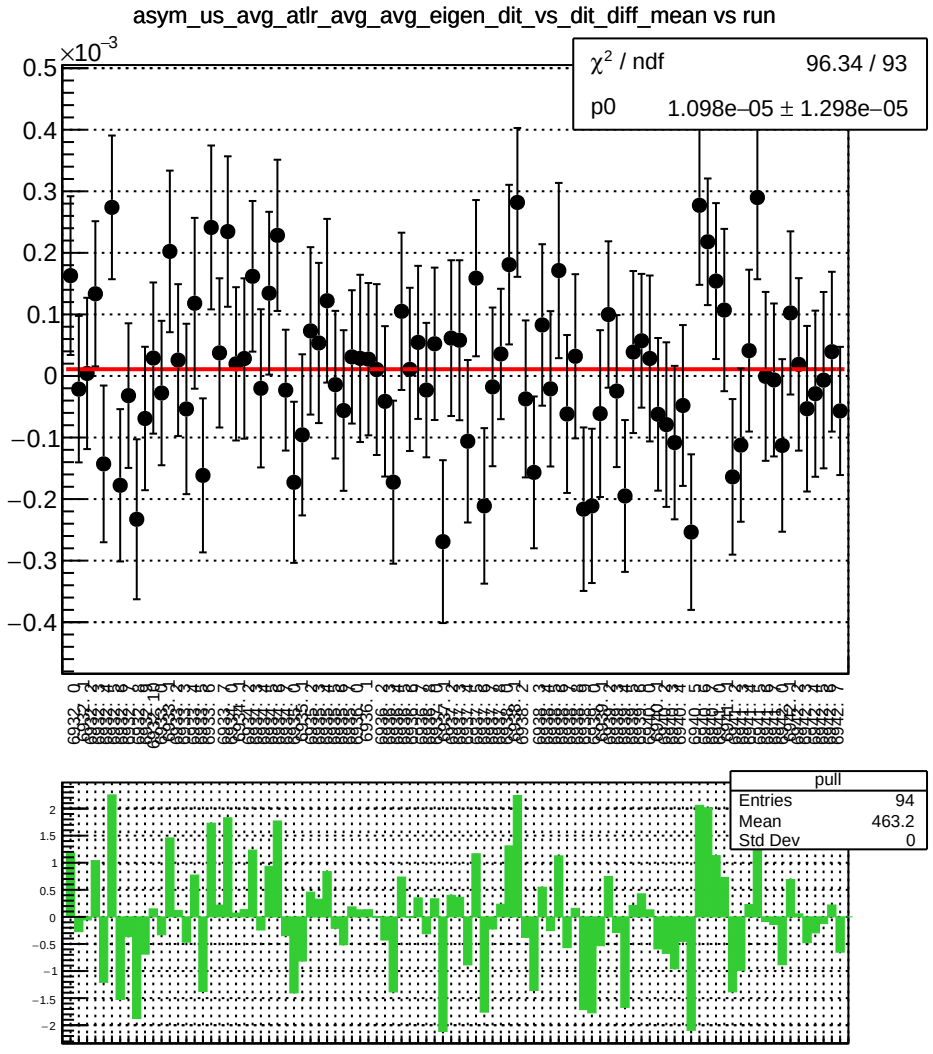

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.52 / 93
p0 0.08456 ± 0.3825
pull
Entries 94
Mean −707.5
Std Dev 0
pull1D
Entries 94
Mean 0.004775
Std Dev 0.86

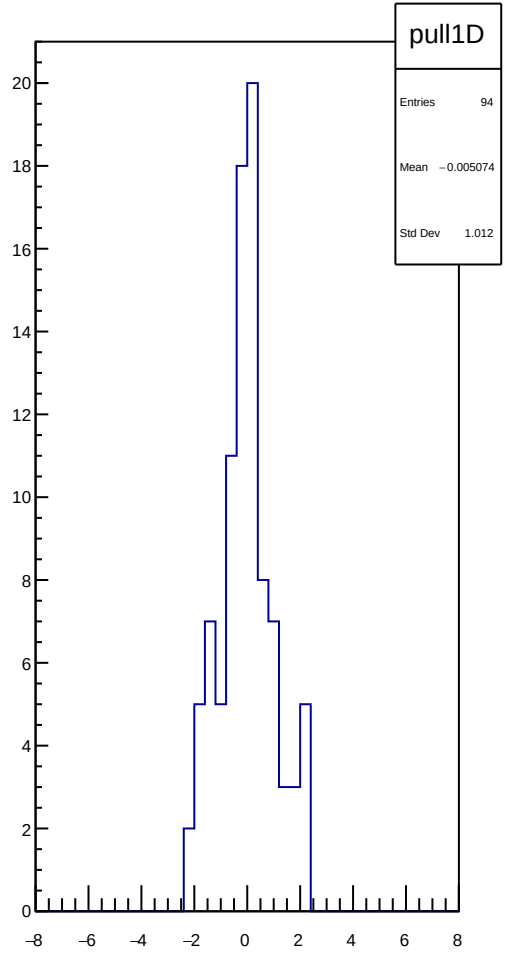

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.981e+04 / 93
p0 356.1 ± 0.2704
600
550
500
450
400
350
300
250
200

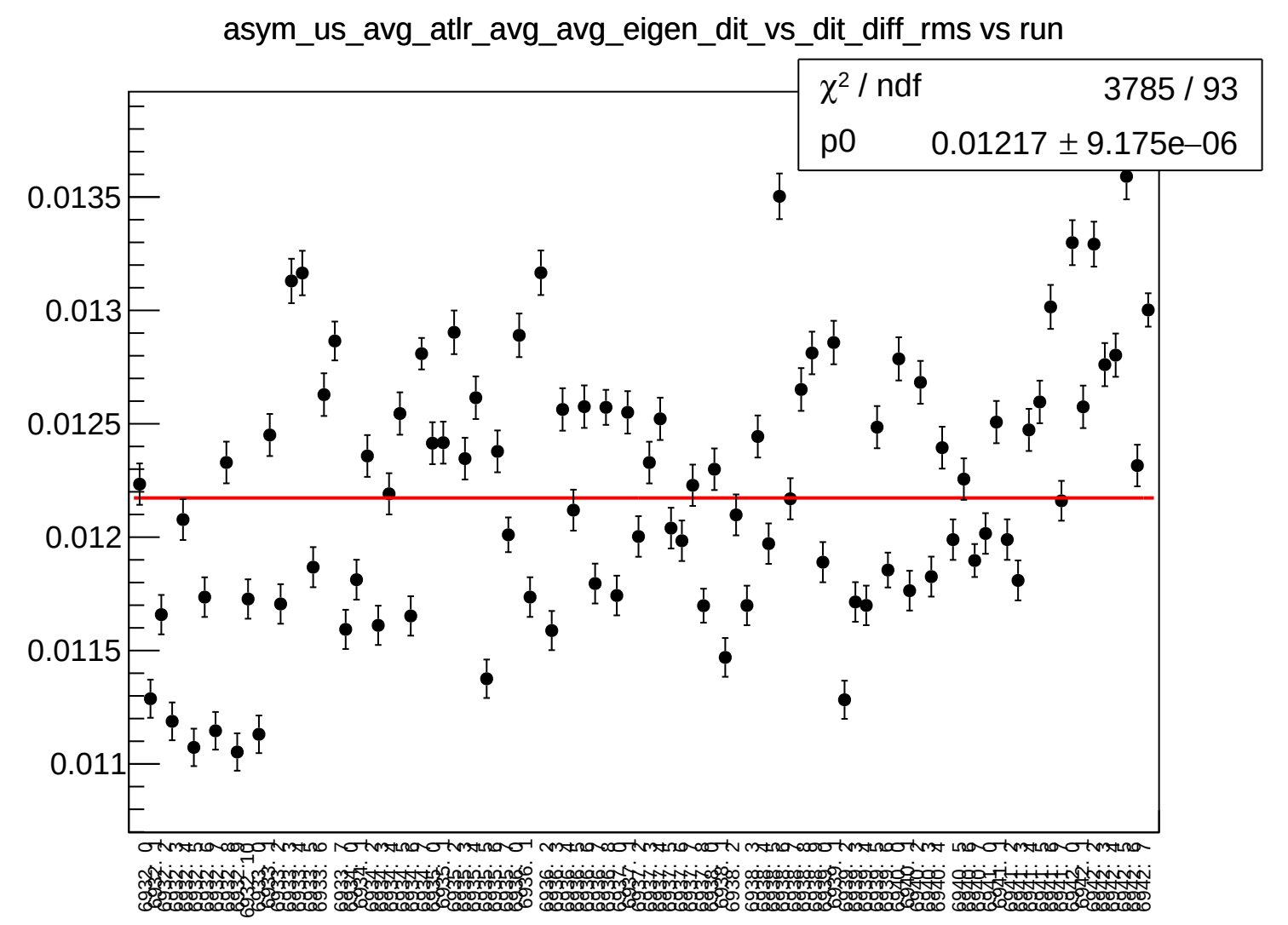

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.52 / 93
p0 0.08456 ± 0.3825
pull
Entries 94
Mean −707.5
Std Dev 0

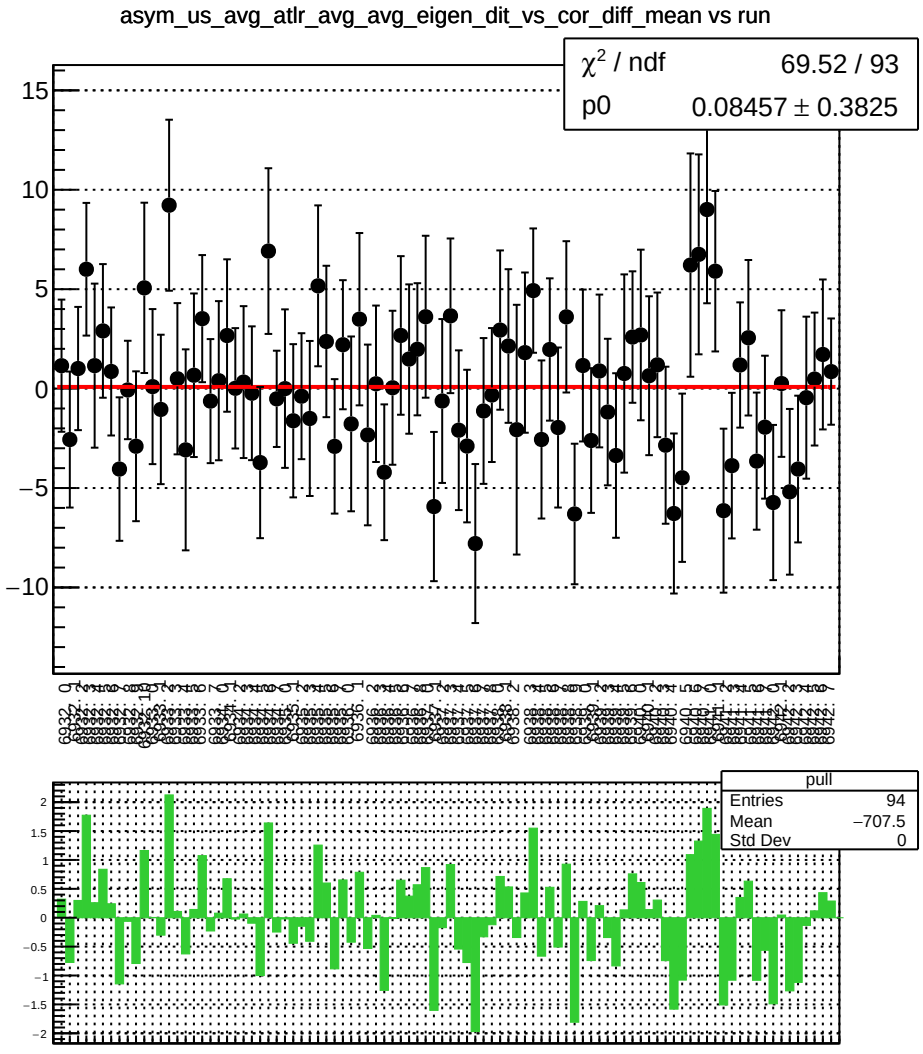

pull1D
Entries 94
Mean 0.004775
Std Dev 0.86

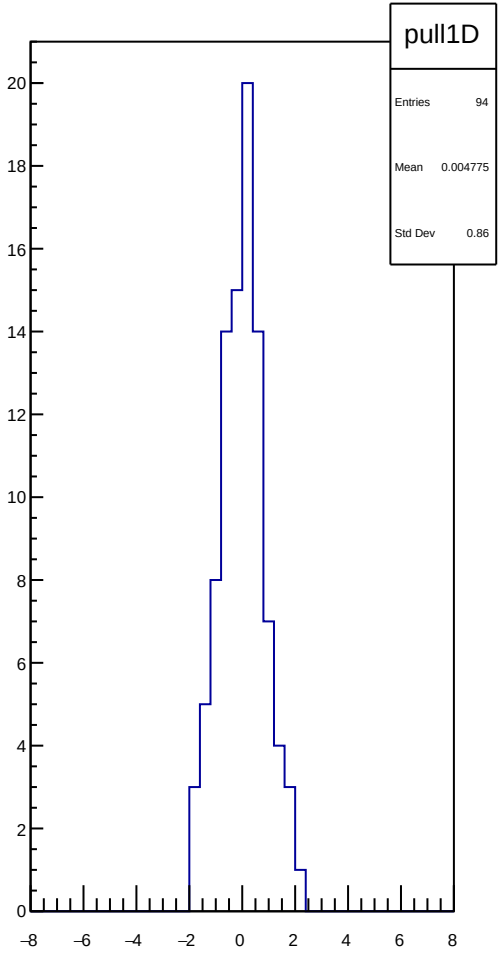

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.981e+04 / 93
p0 356.1 ± 0.2704
600
550
500
450
400
350
300
250
200

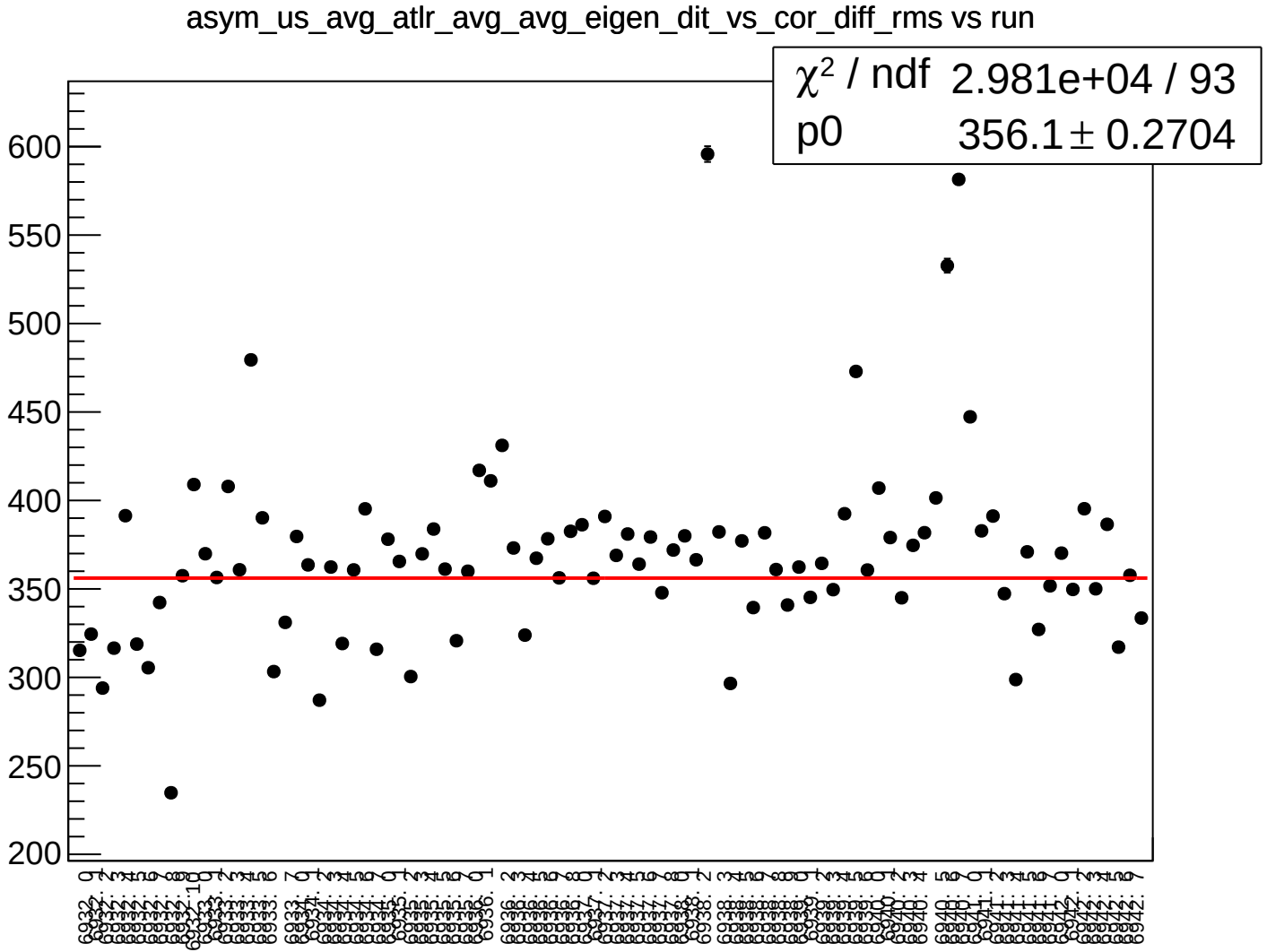

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.34 / 93
p0 1.098e−05 ± 1.298e−05
pull
Entries 94
Mean 463.2
Std Dev 0

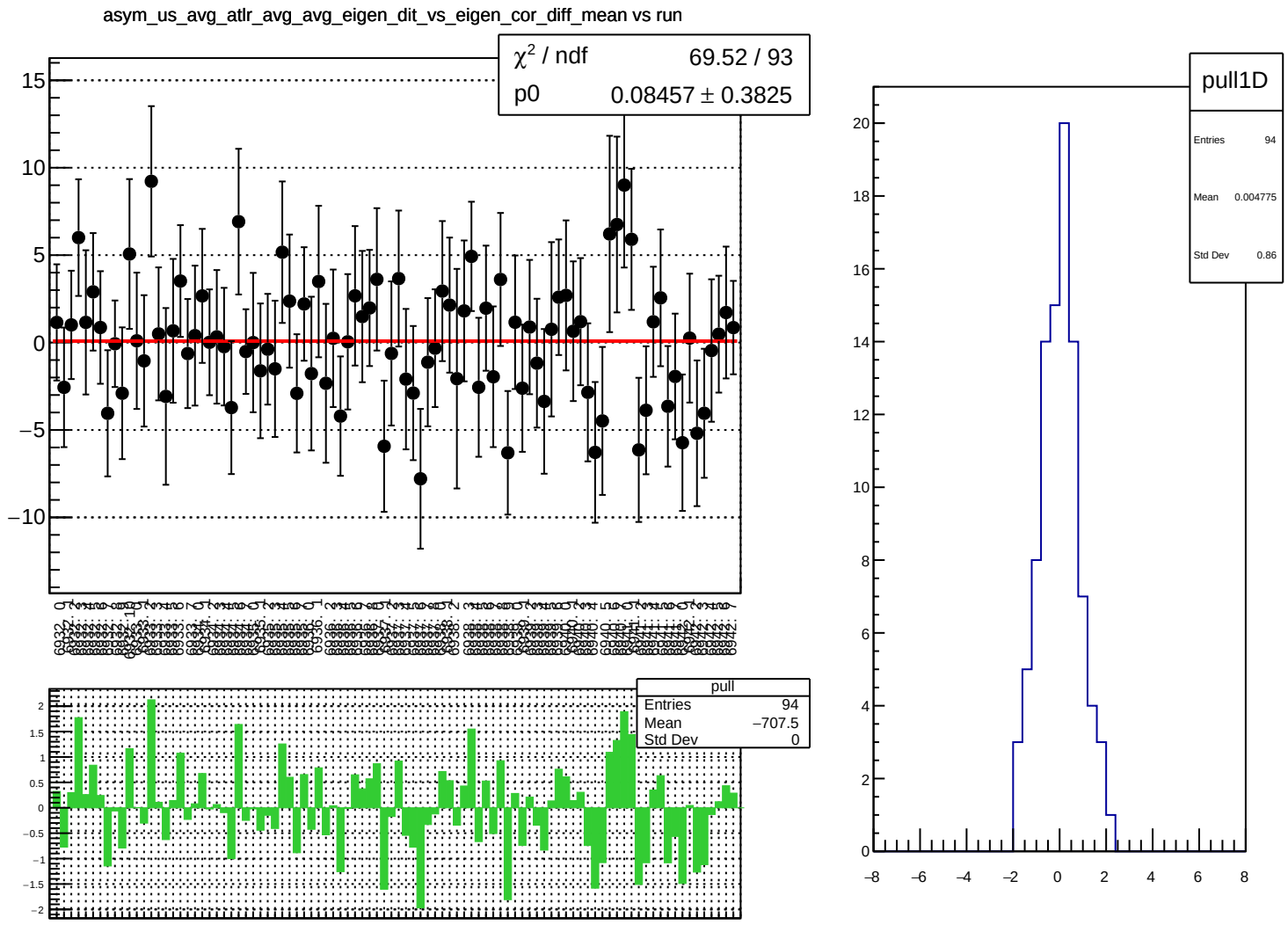

pull1D
Entries 94
Mean −0.005074
Std Dev 1.012

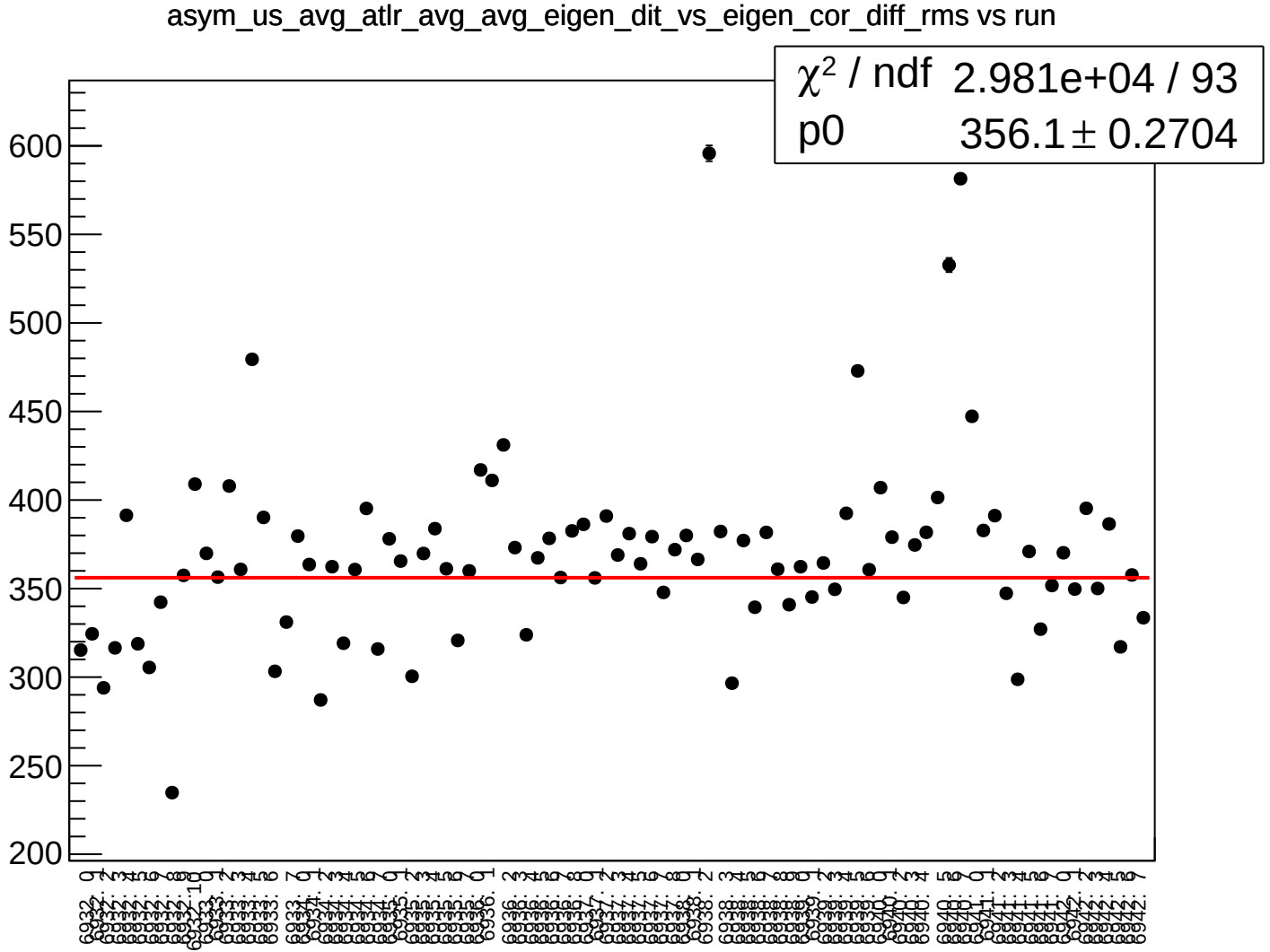

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3785 / 93
p0 0.01217 ± 9.175e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011

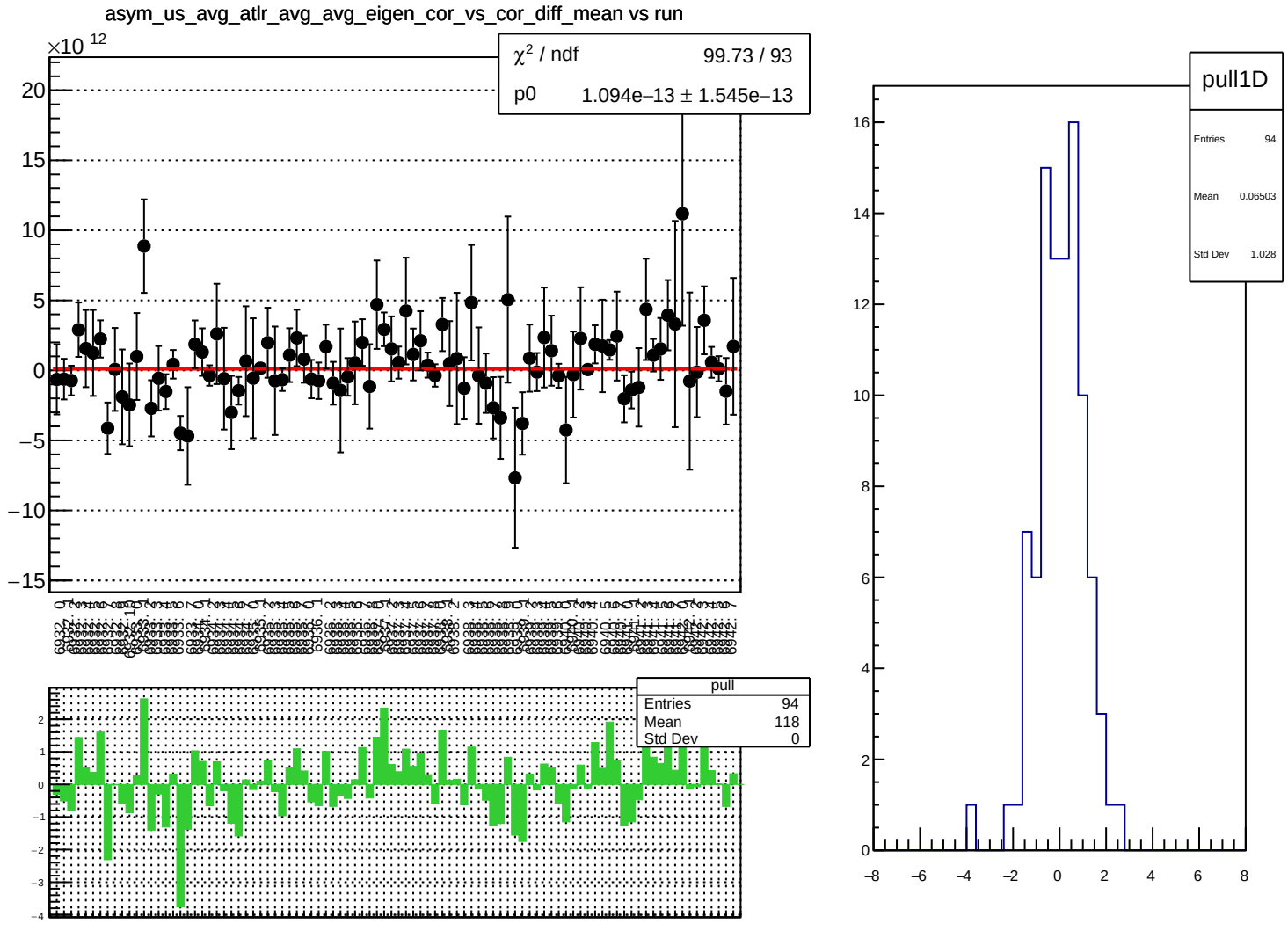

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.52 / 93
p0 0.08457 ± 0.3825
pull
Entries 94
Mean −707.5
Std Dev 0

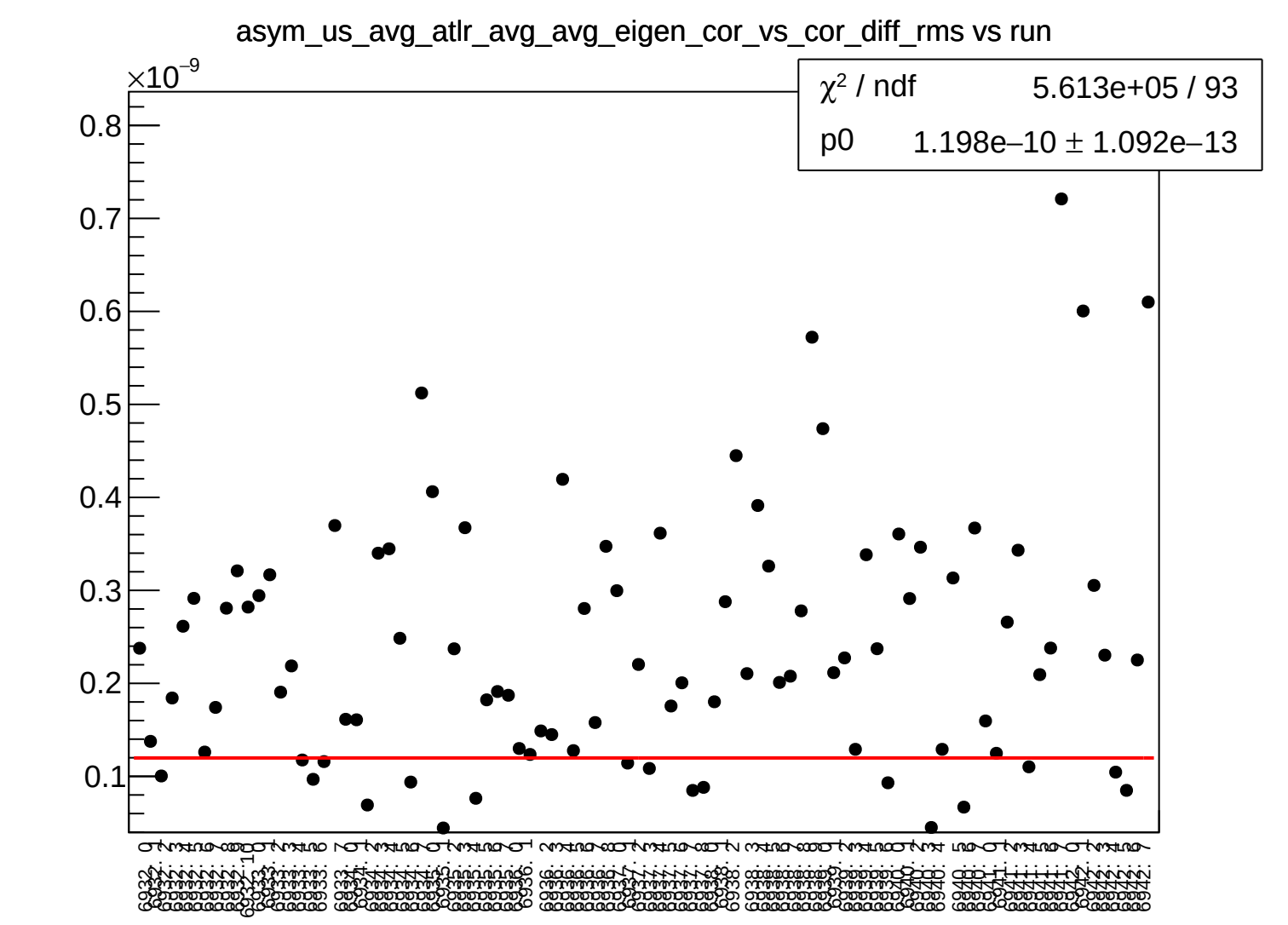

pull1D
Entries 94
Mean 0.004775
Std Dev 0.86

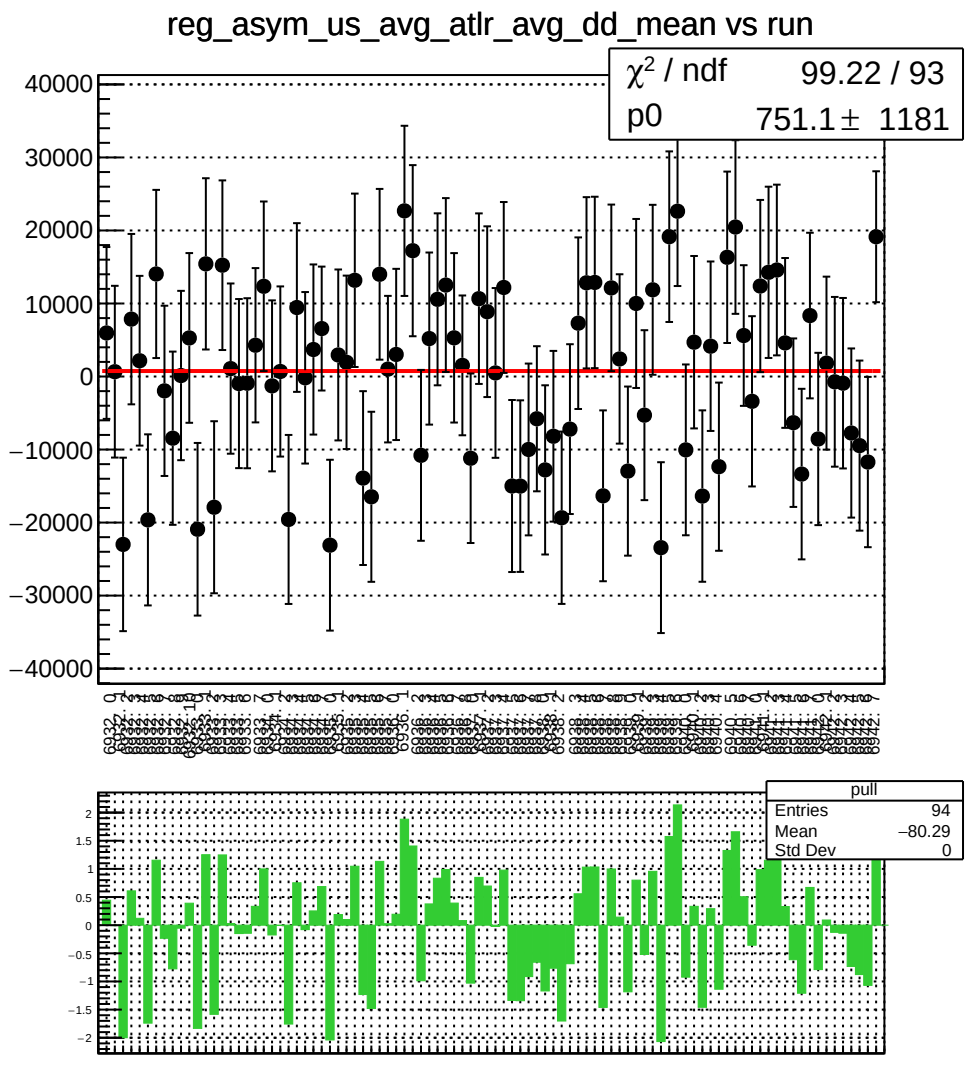

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.981e+04 / 93
p0 356.1 ± 0.2704
600
550
500
450
400
350
300
250
200

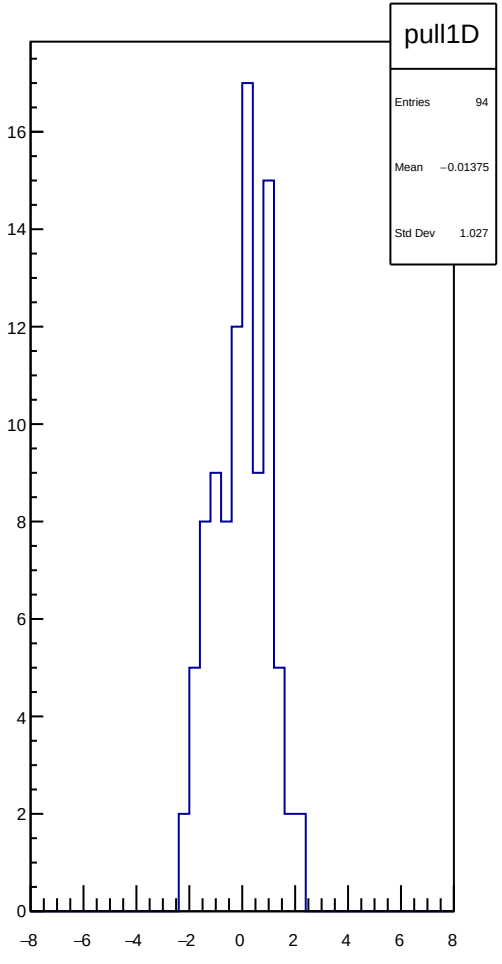

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.52 / 93
p0 0.08457 ± 0.3825
pull
Entries 94
Mean −707.5
Std Dev 0
pull1D
Entries 94
Mean 0.004775
Std Dev 0.86

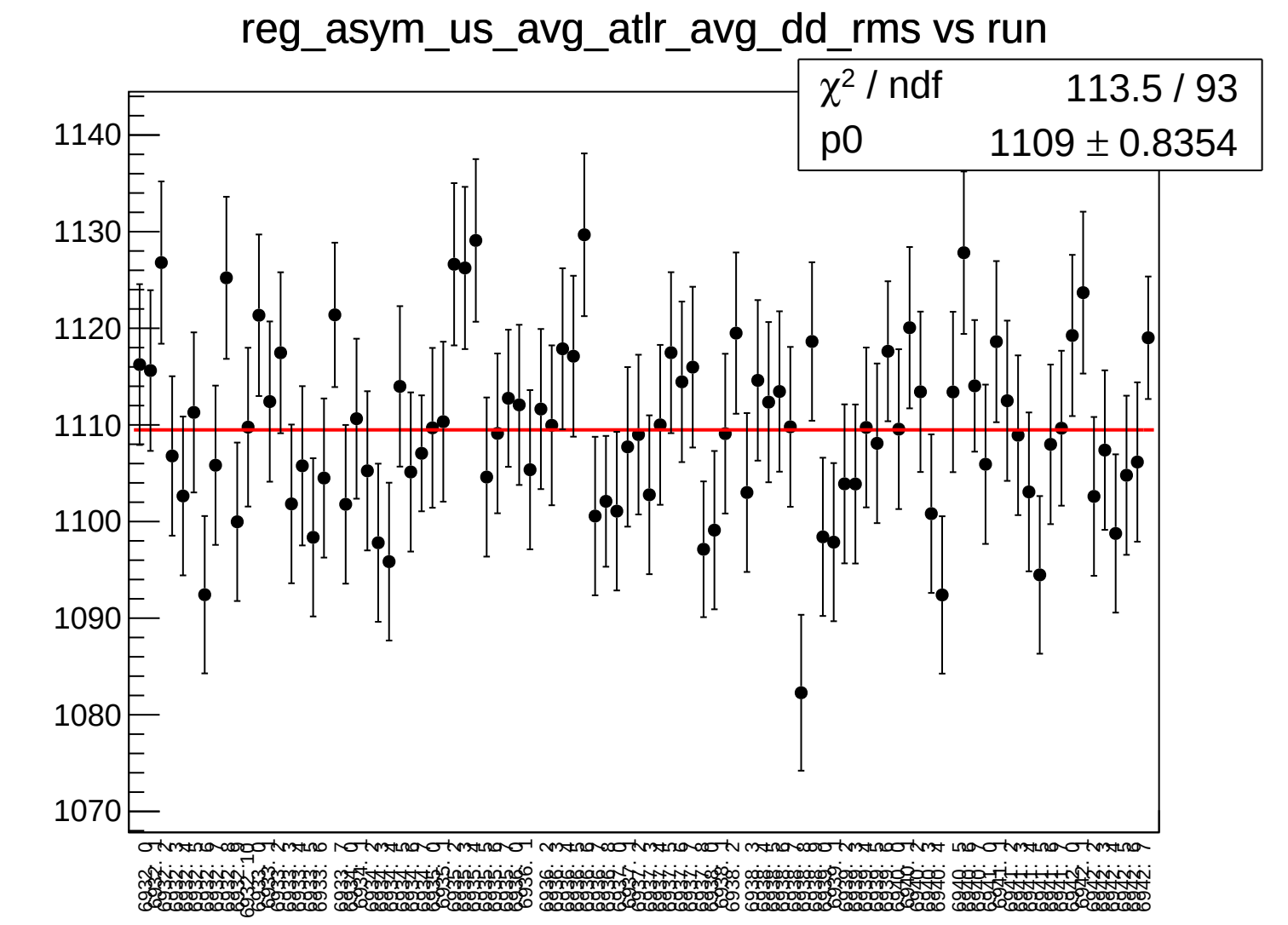

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.981e+04 / 93
p0 356.1 ± 0.2704
600
550
500
450
400
350
300
250
200

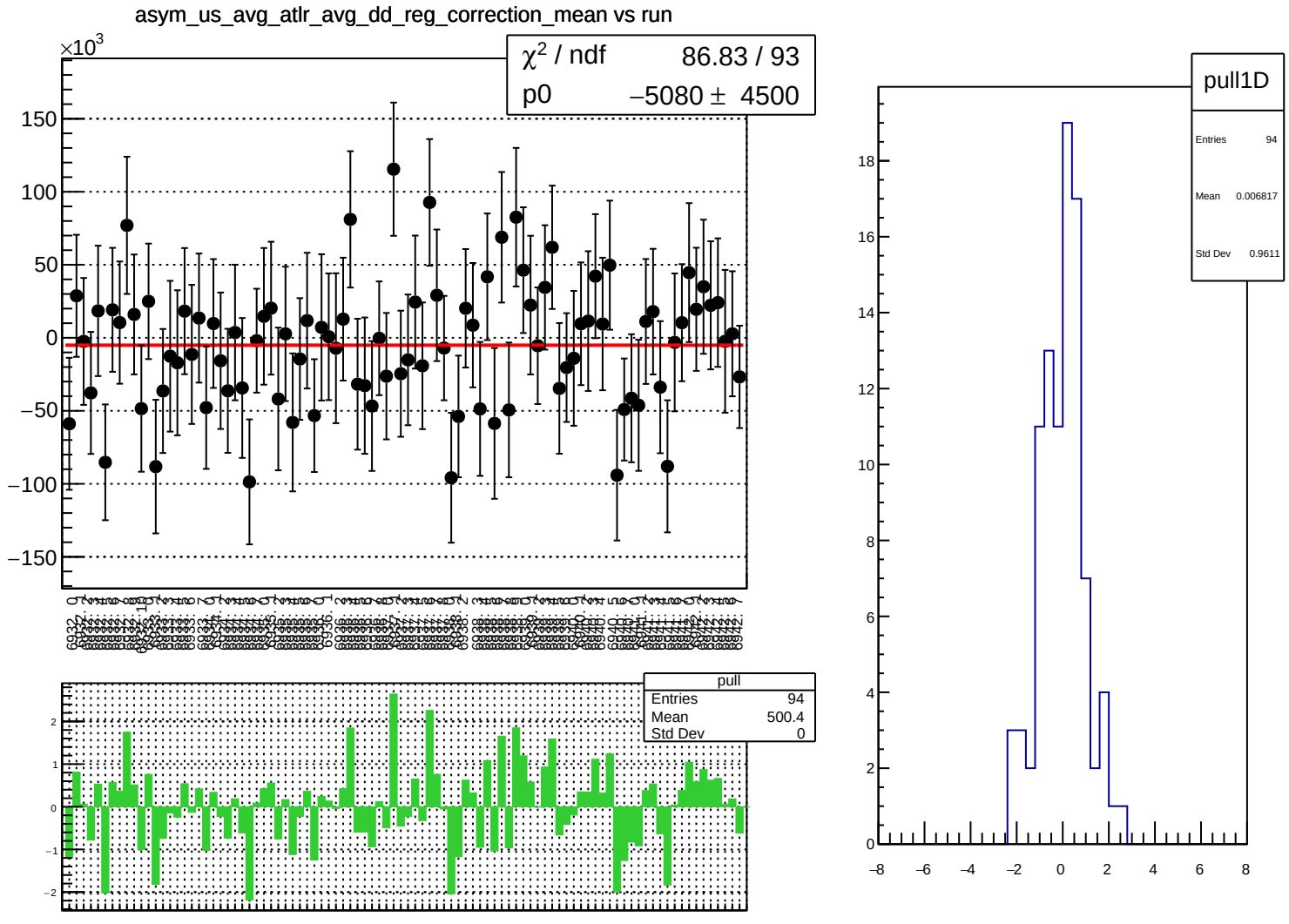

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.73 / 93
p0 1.094e−13 ± 1.545e−13
pull
Entries 94
Mean 118
Std Dev 0
pull1D
Entries 94
Mean 0.06503
Std Dev 1.028

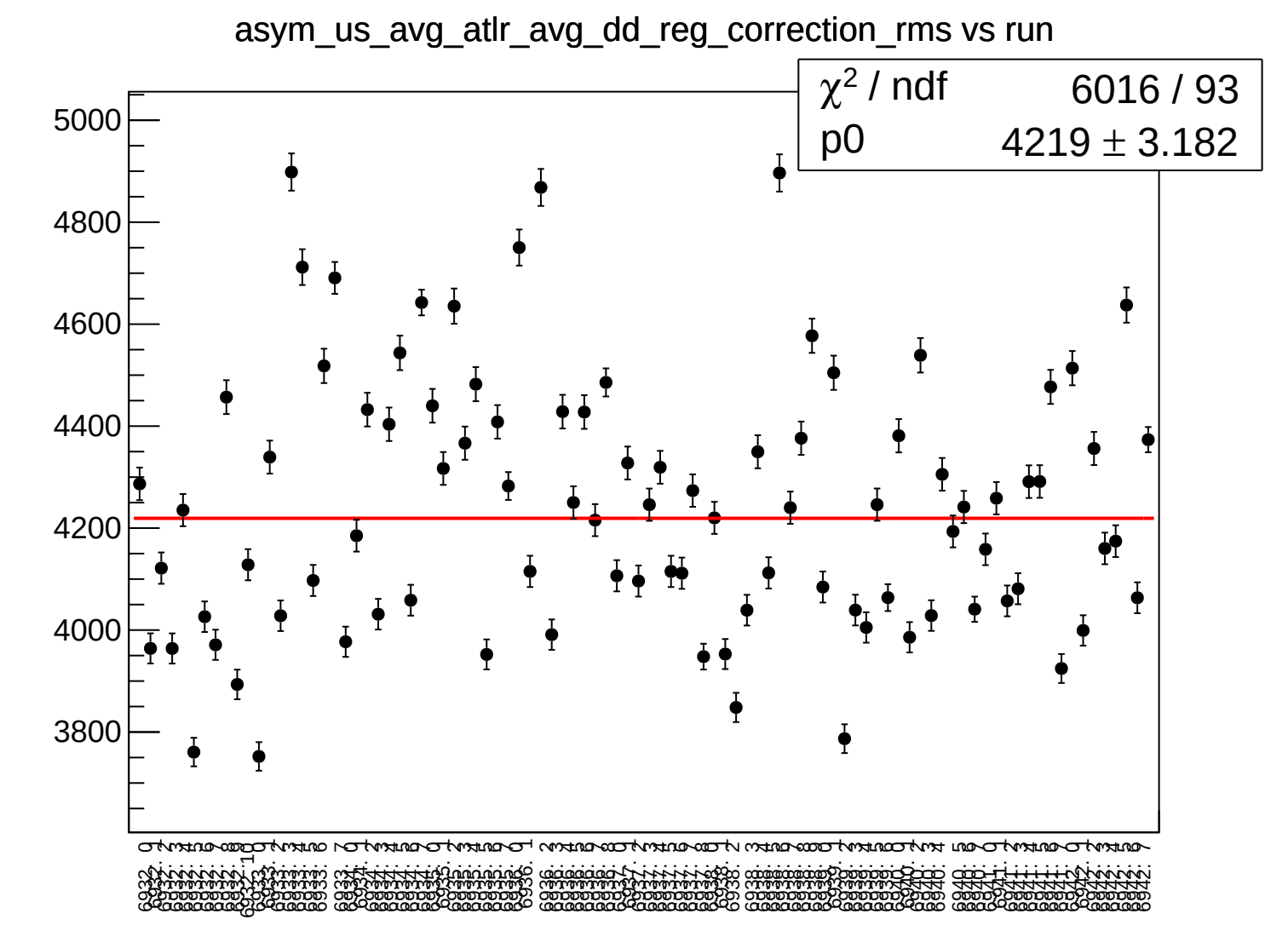

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.613e+05 / 93
p0 1.198e−10 ± 1.092e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

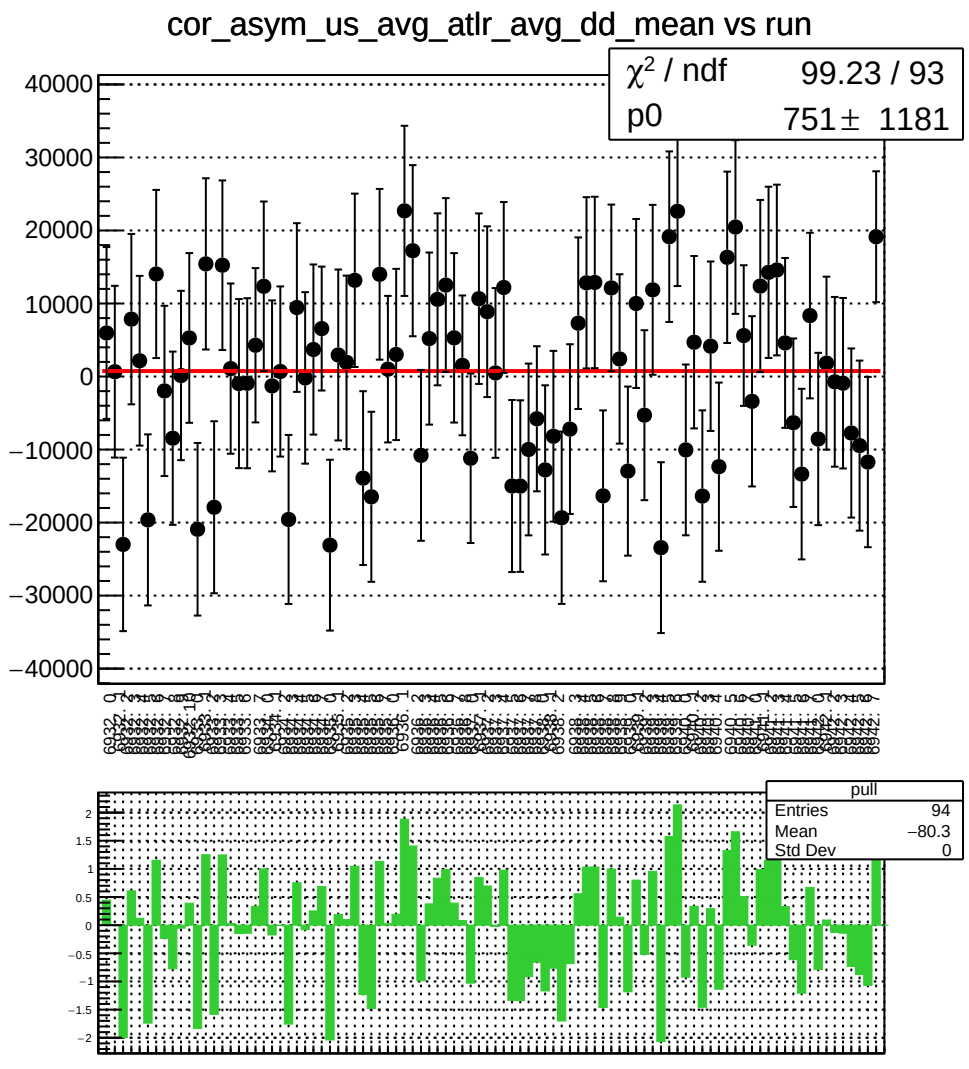

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 99.22 / 93
p0 751.1 ± 1181
pull
Entries 94
Mean −80.29
Std Dev 0

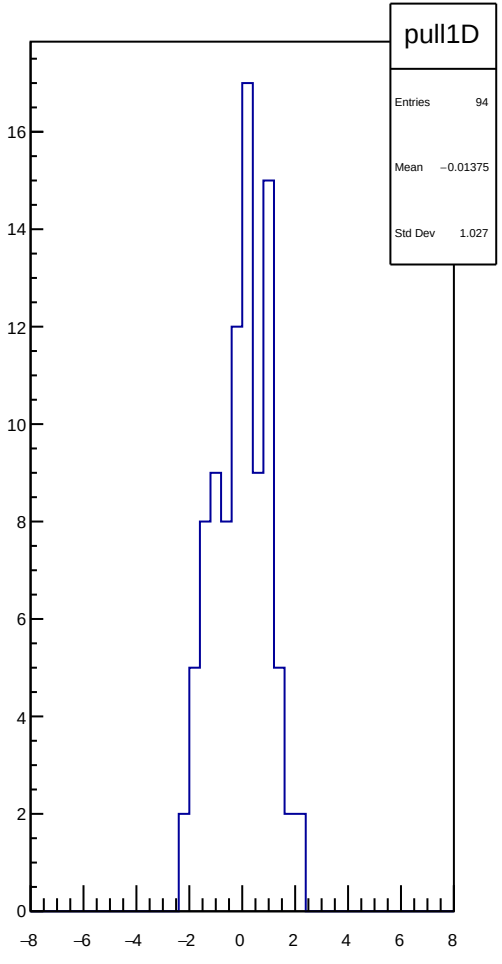

pull1D
Entries 94
Mean −0.01375
Std Dev 1.027

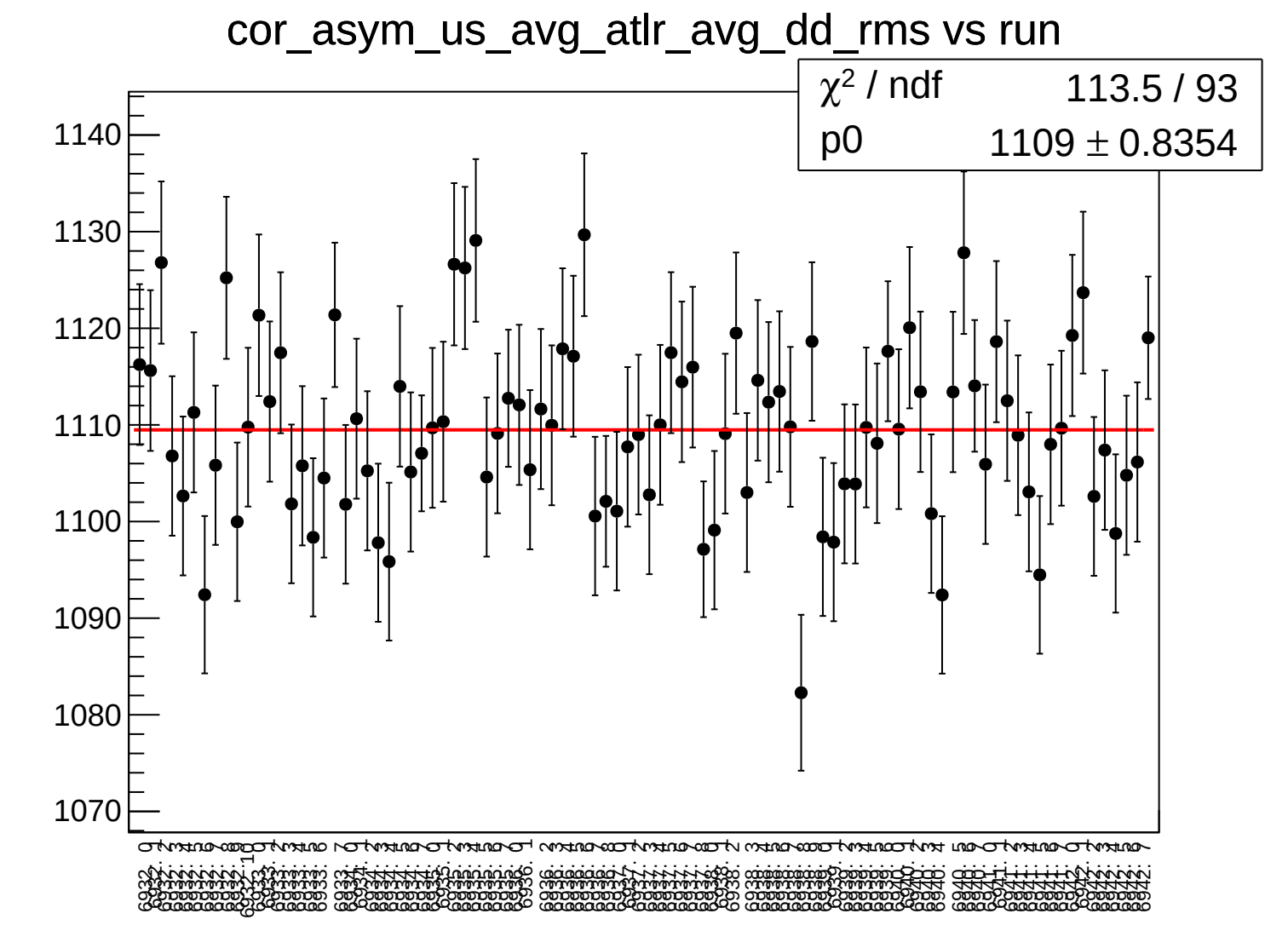

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 113.5 / 93
p0 1109 ± 0.8354
1140
1130
1120
1110
1100
1090
1080
1070

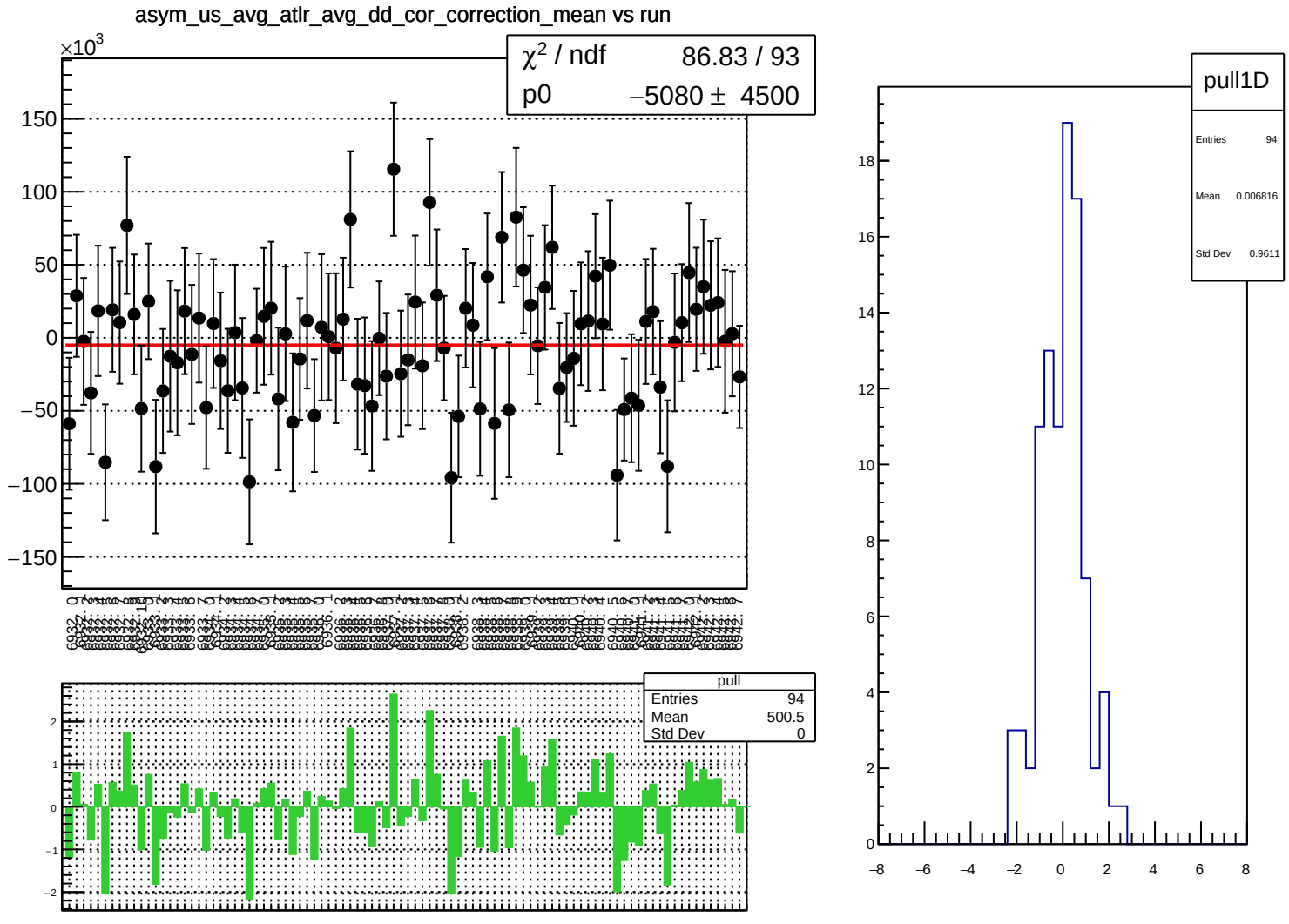

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 86.83 / 93
p0 −5080 ± 4500
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 500.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006817
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

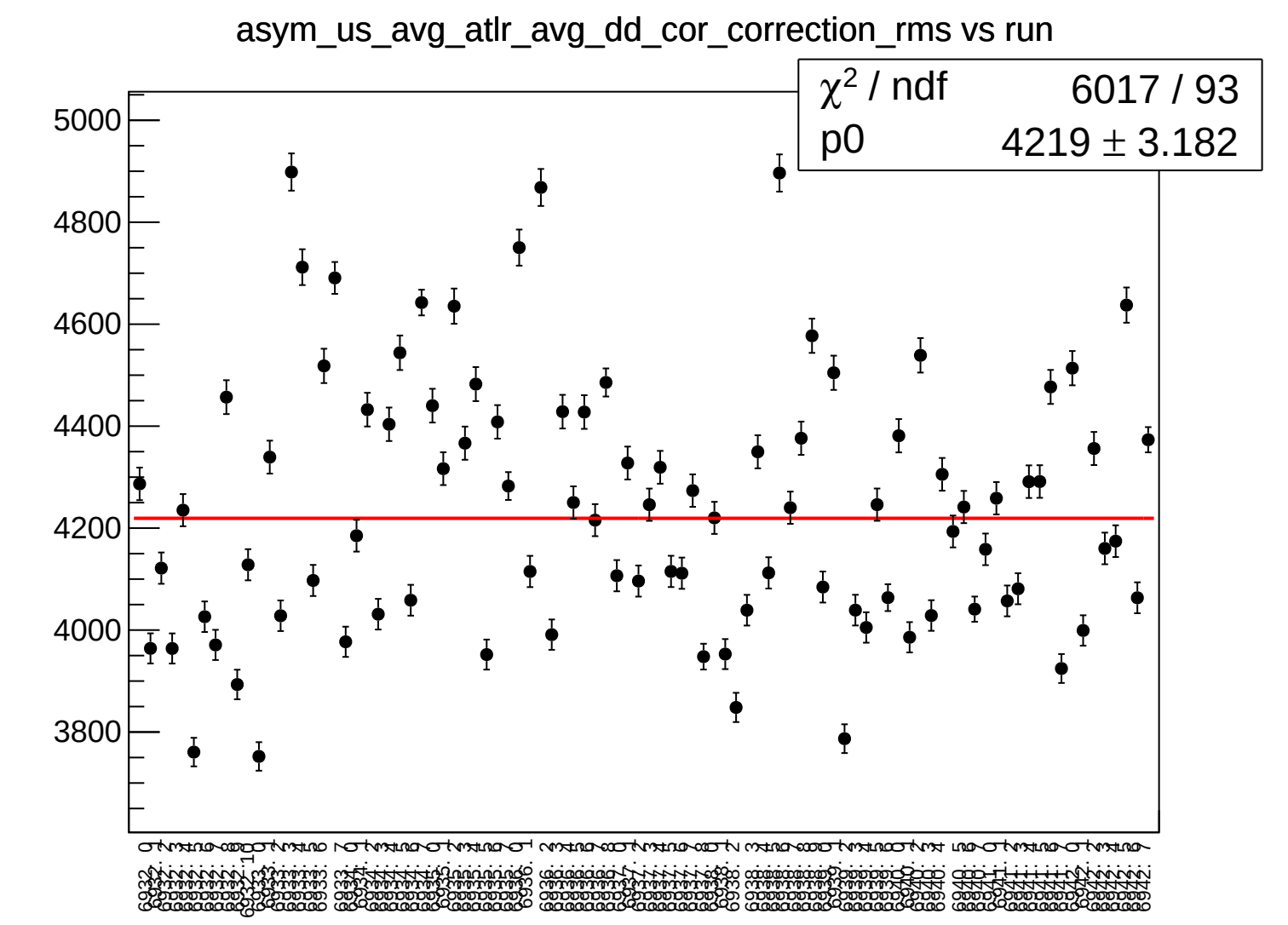

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6016 / 93
p0 4219 ± 3.182
5000
4800
4600
4400
4200
4000
3800

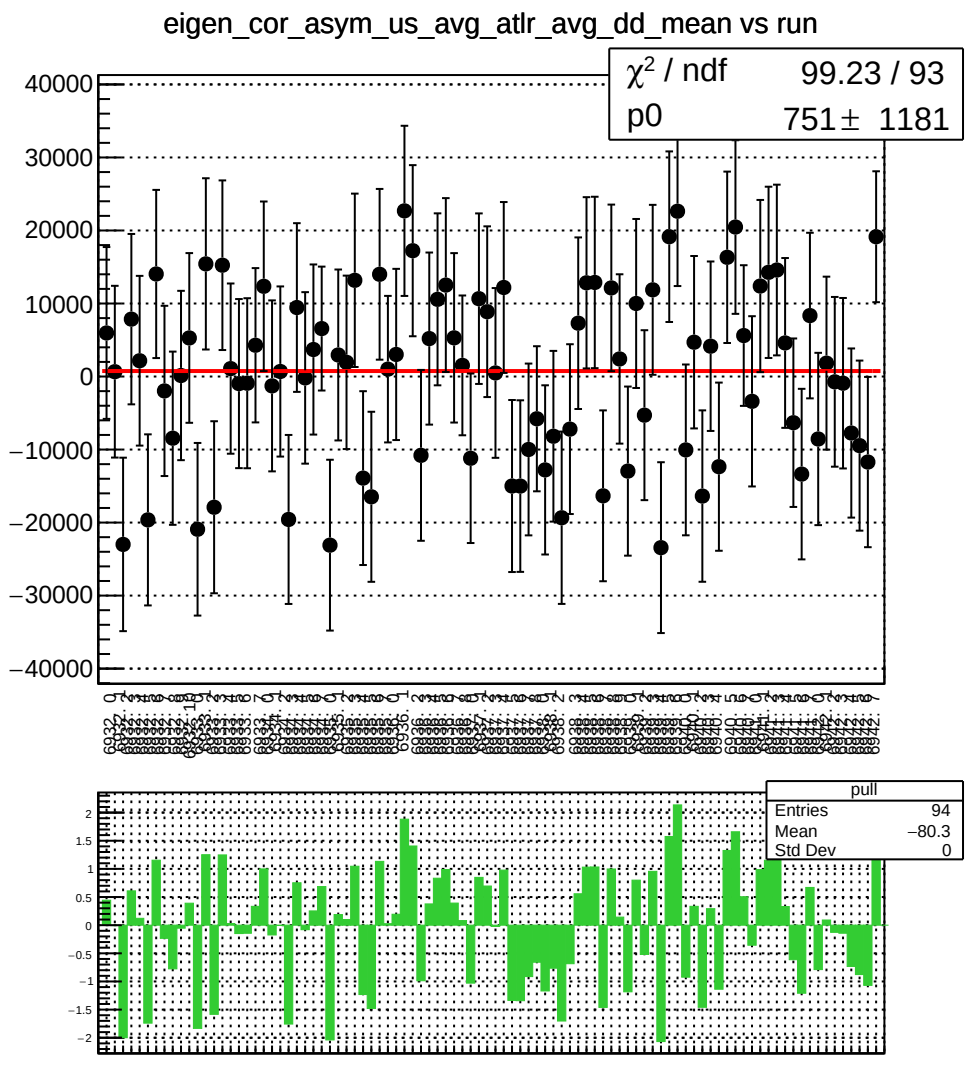

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 99.23 / 93
p0 751 ± 1181
pull
Entries 94
Mean −80.3
Std Dev 0

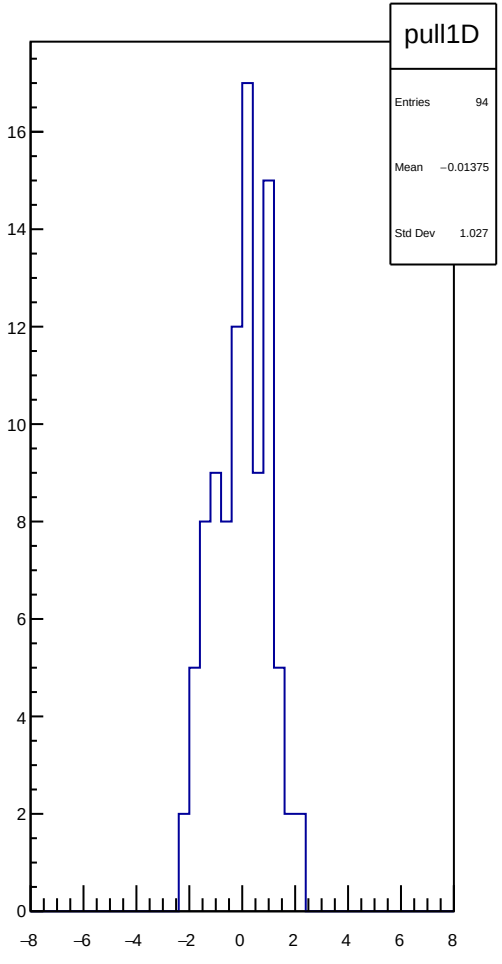

pull1D
Entries 94
Mean −0.01375
Std Dev 1.027

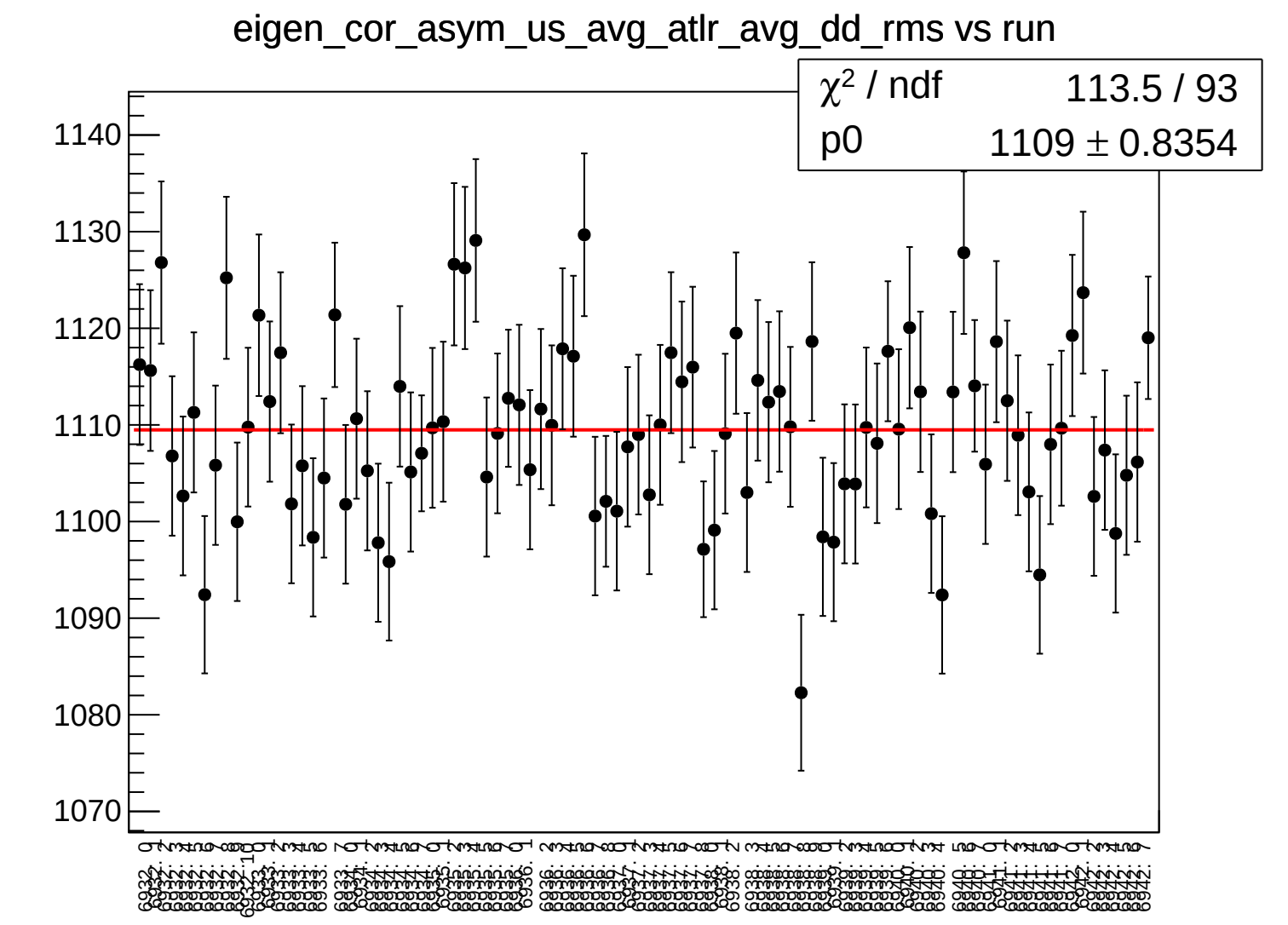

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 113.5 / 93
p0 1109 ± 0.8354
1140
1130
1120
1110
1100
1090
1080
1070

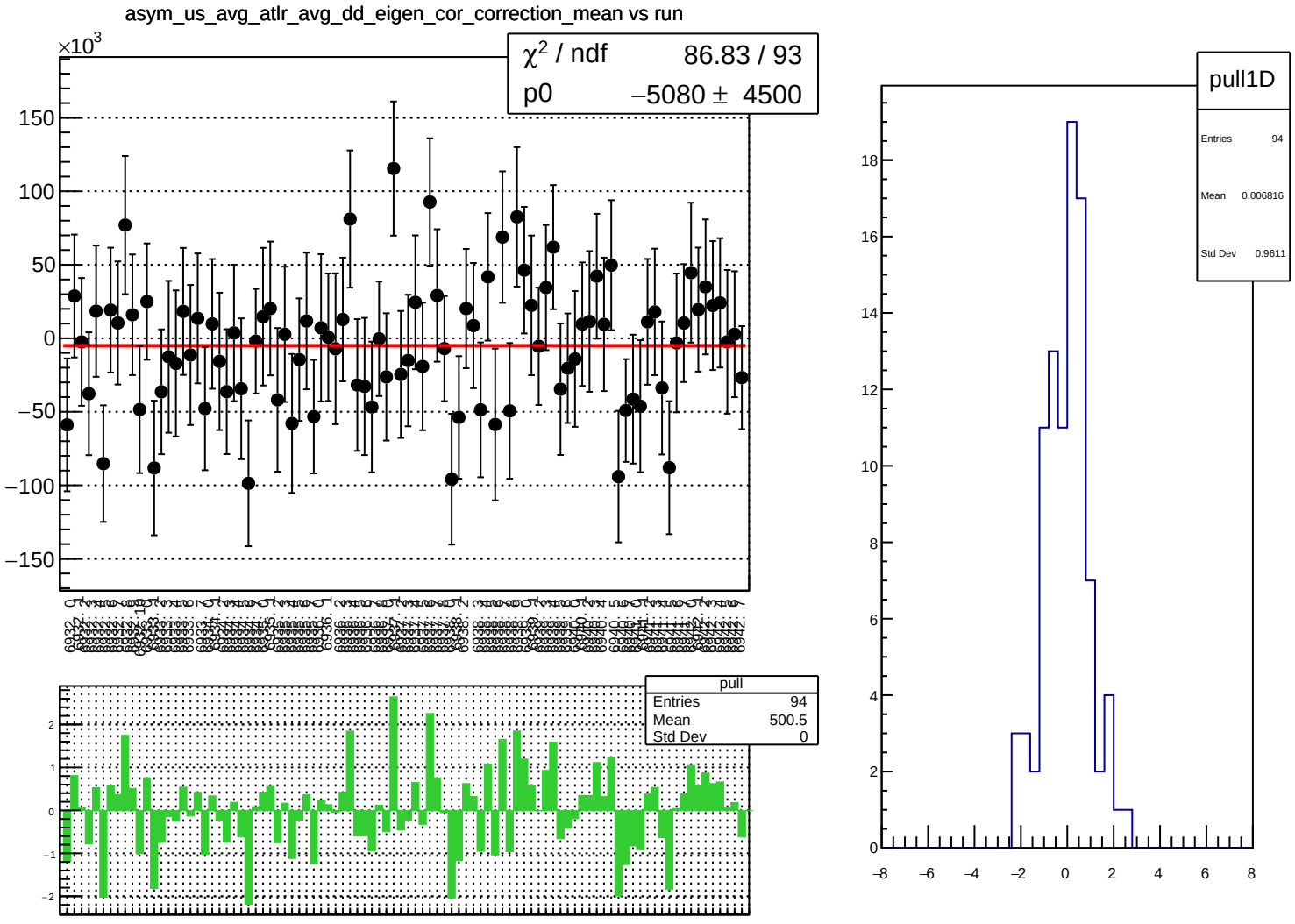

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.83 / 93
p0 −5080 ± 4500
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 500.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006816
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

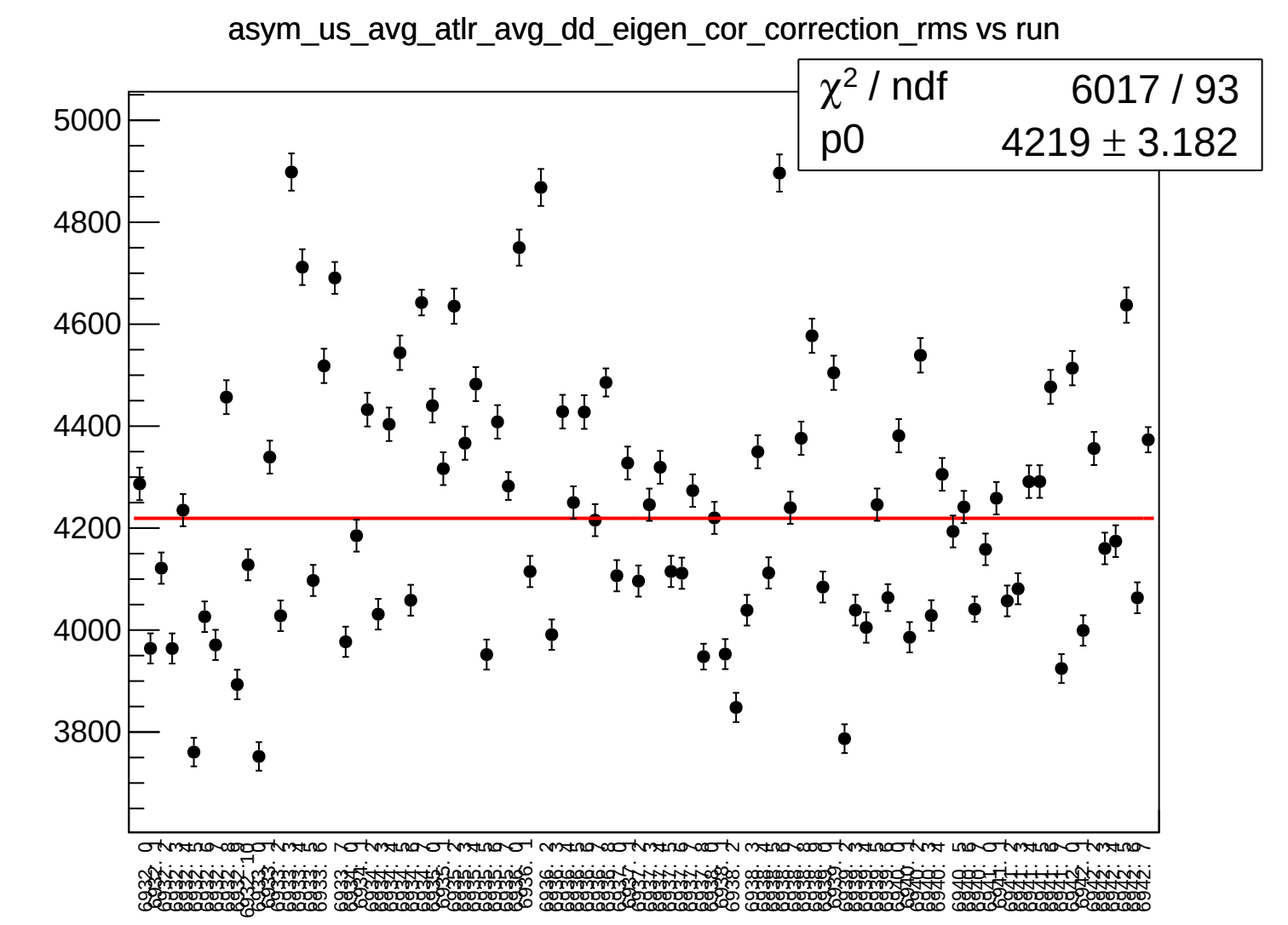

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6017 / 93
p0 4219 ± 3.182
5000
4800
4600
4400
4200
4000
3800

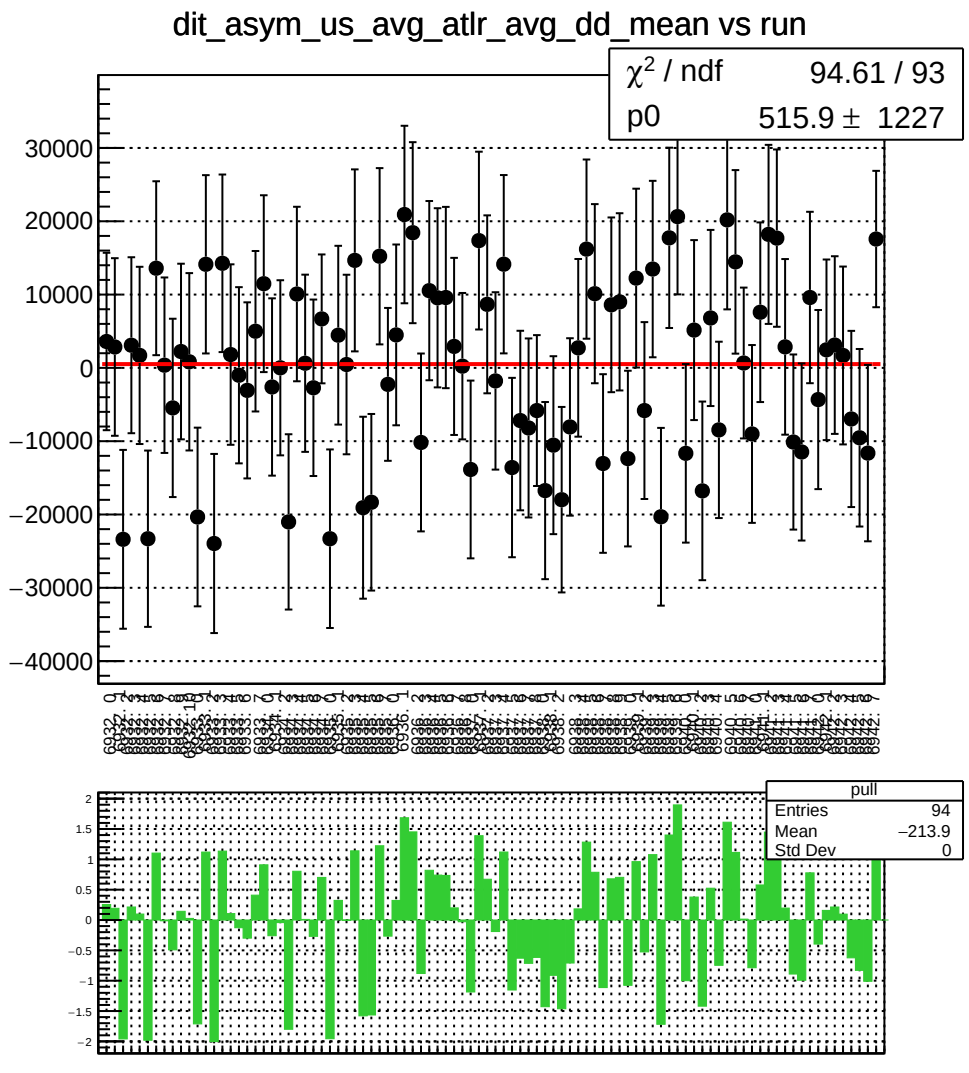

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 99.23 / 93
p0 751 ± 1181
pull
Entries 94
Mean −80.3
Std Dev 0

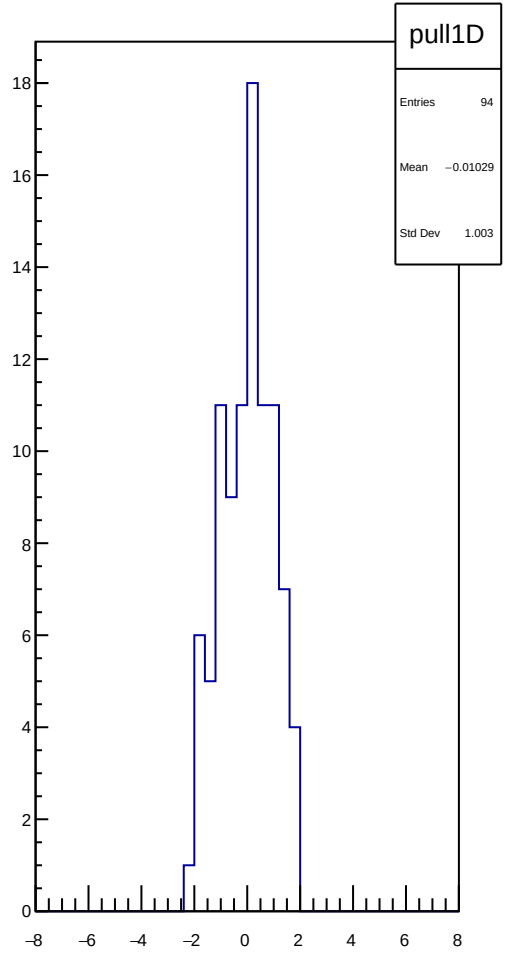

pull1D
Entries 94
Mean −0.01375
Std Dev 1.027

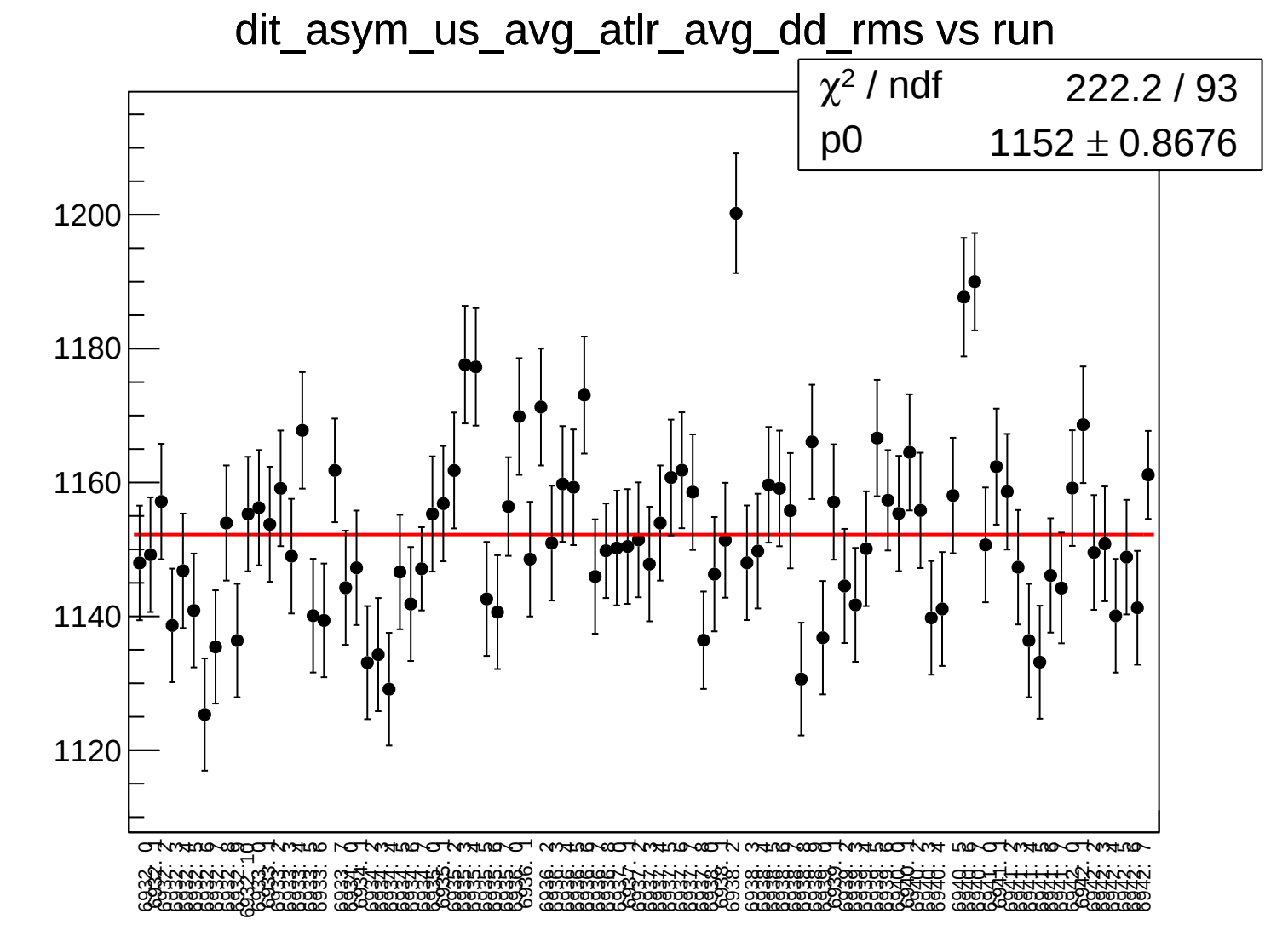

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 113.5 / 93
p0 1109 ± 0.8354
1140
1130
1120
1110
1100
1090
1080
1070

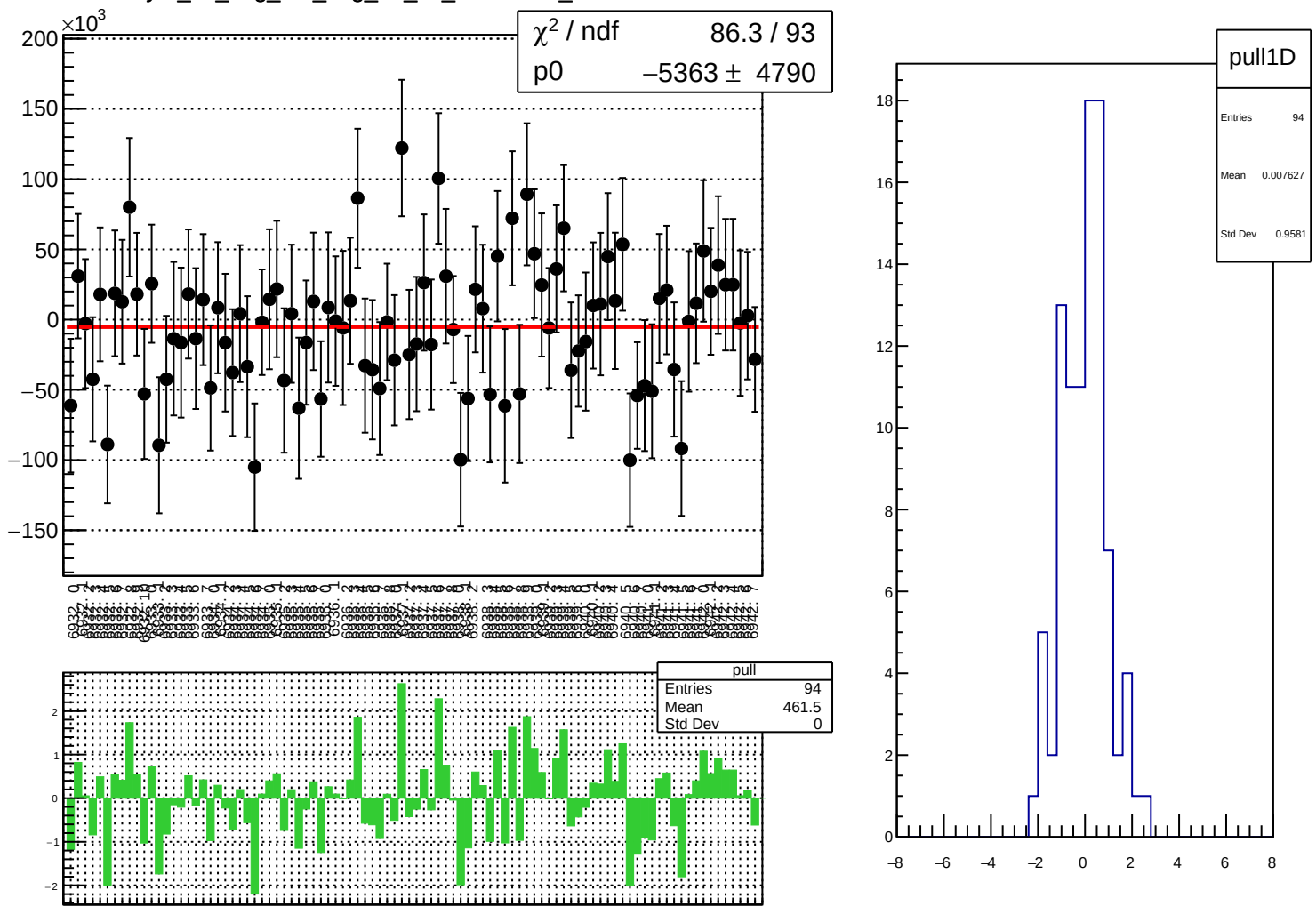

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 86.83 / 93
p0 −5080 ± 4500
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 500.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006816
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

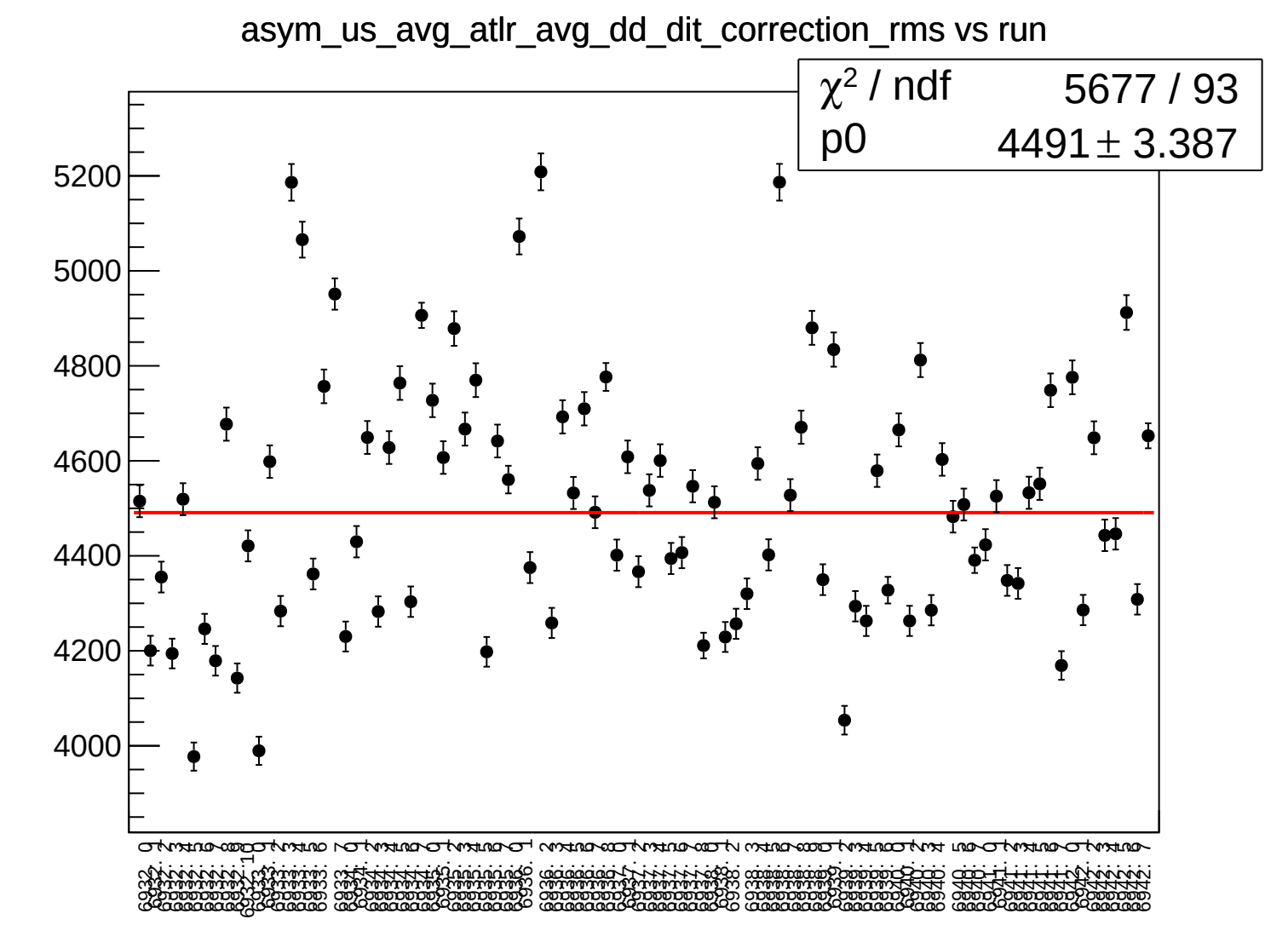

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6017 / 93
p0 4219 ± 3.182
5000
4800
4600
4400
4200
4000
3800

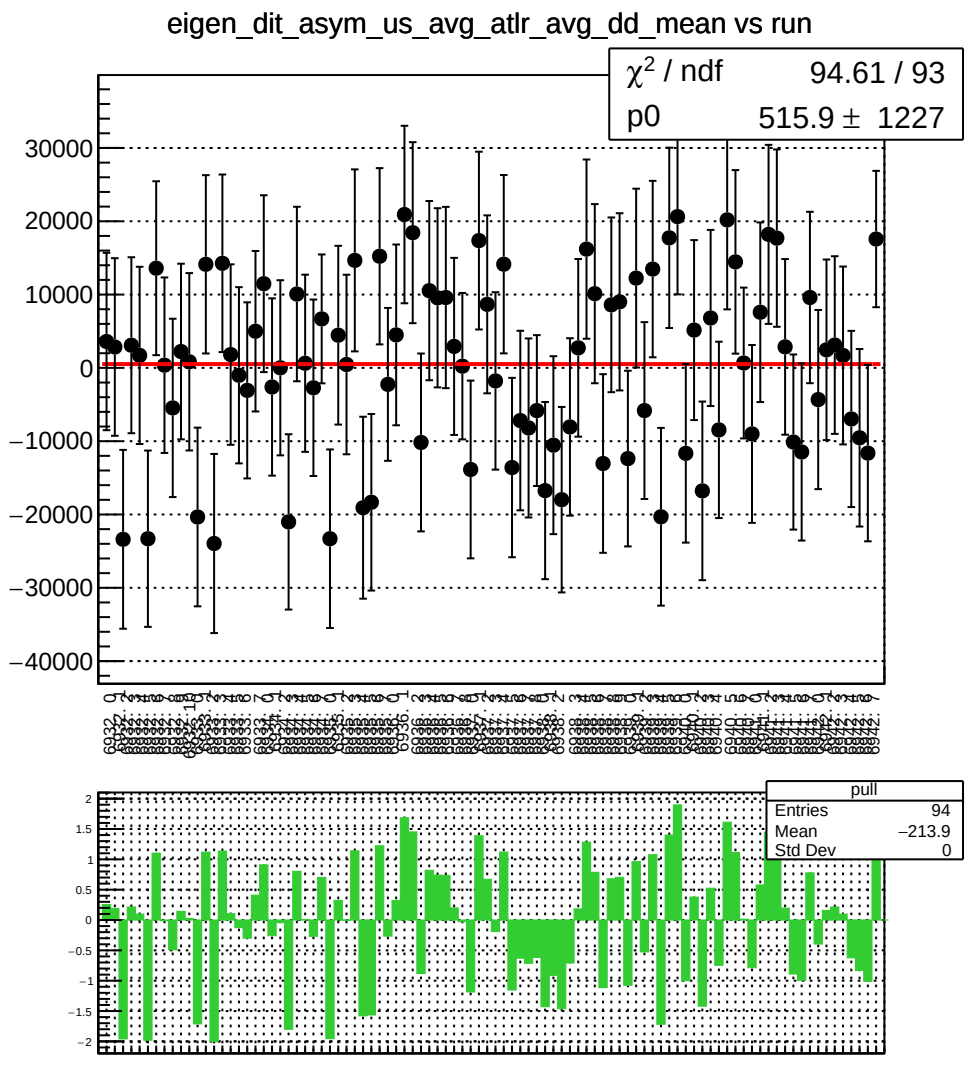

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.61 / 93
p0 515.9 ± 1227
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −213.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

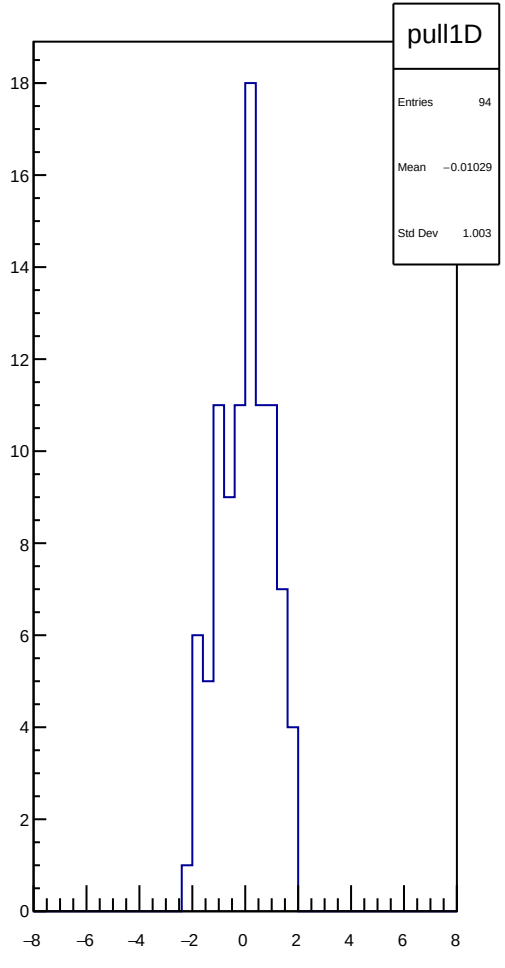

pull1D
Entries 94
Mean −0.01029
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

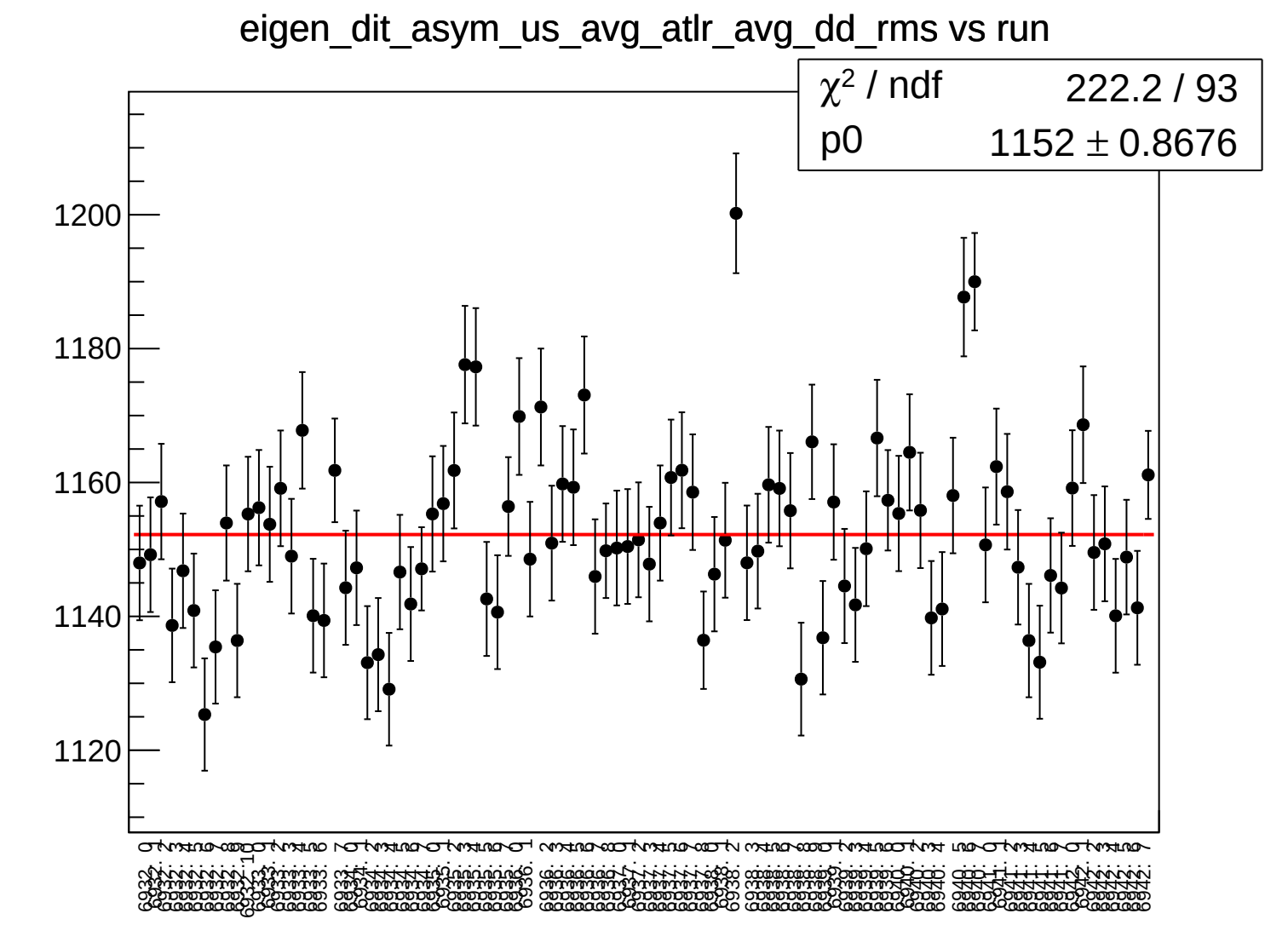

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 222.2 / 93
p0 1152 ± 0.8676
1200
1180
1160
1140
1120

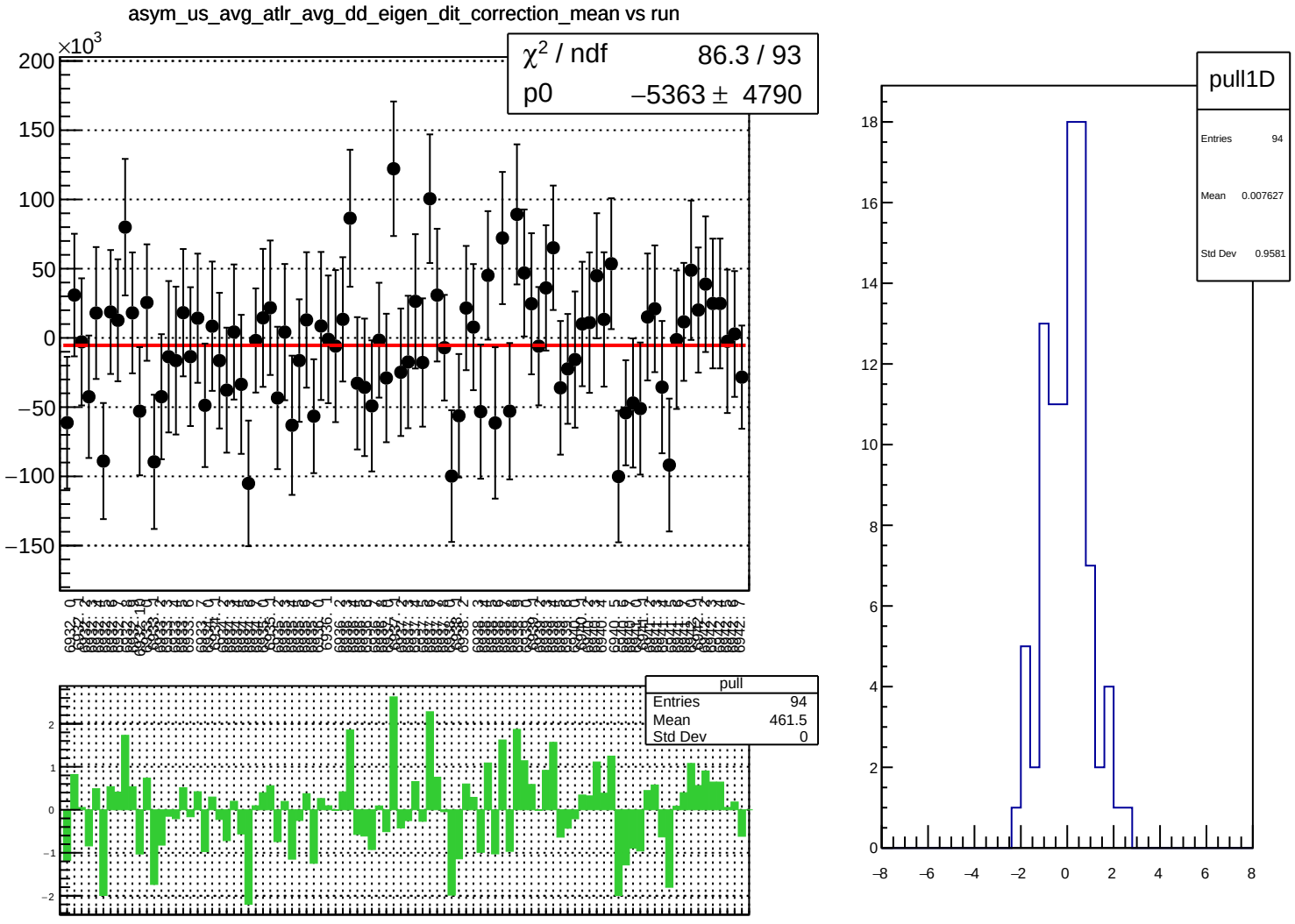

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 93
p0 −5363 ± 4790
pull
Entries 94
Mean 461.5
Std Dev 0
pull1D
Entries 94
Mean 0.007627
Std Dev 0.9581

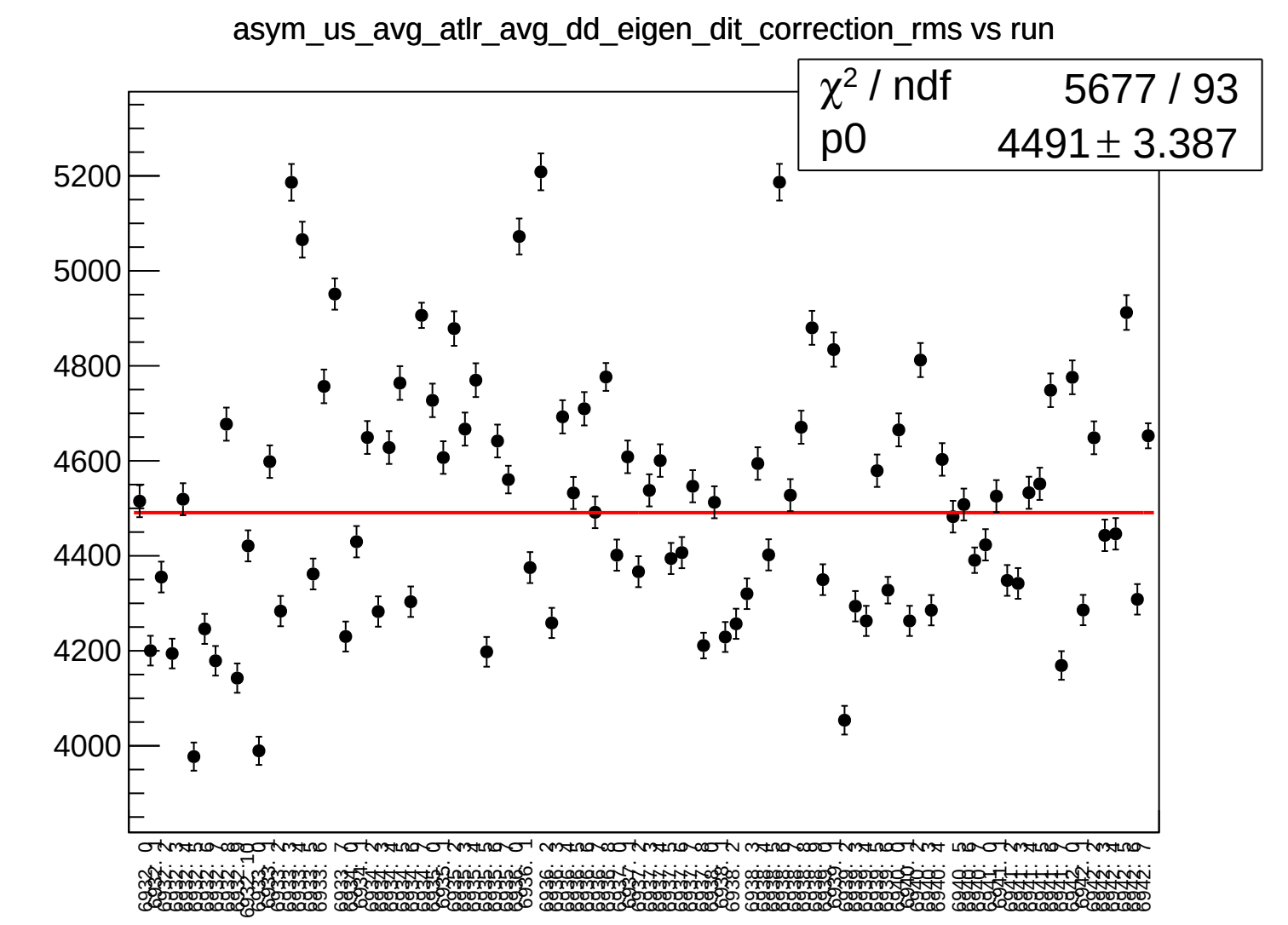

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 5677 / 93
p0 4491 ± 3.387
5200
5000
4800
4600
4400
4200
4000

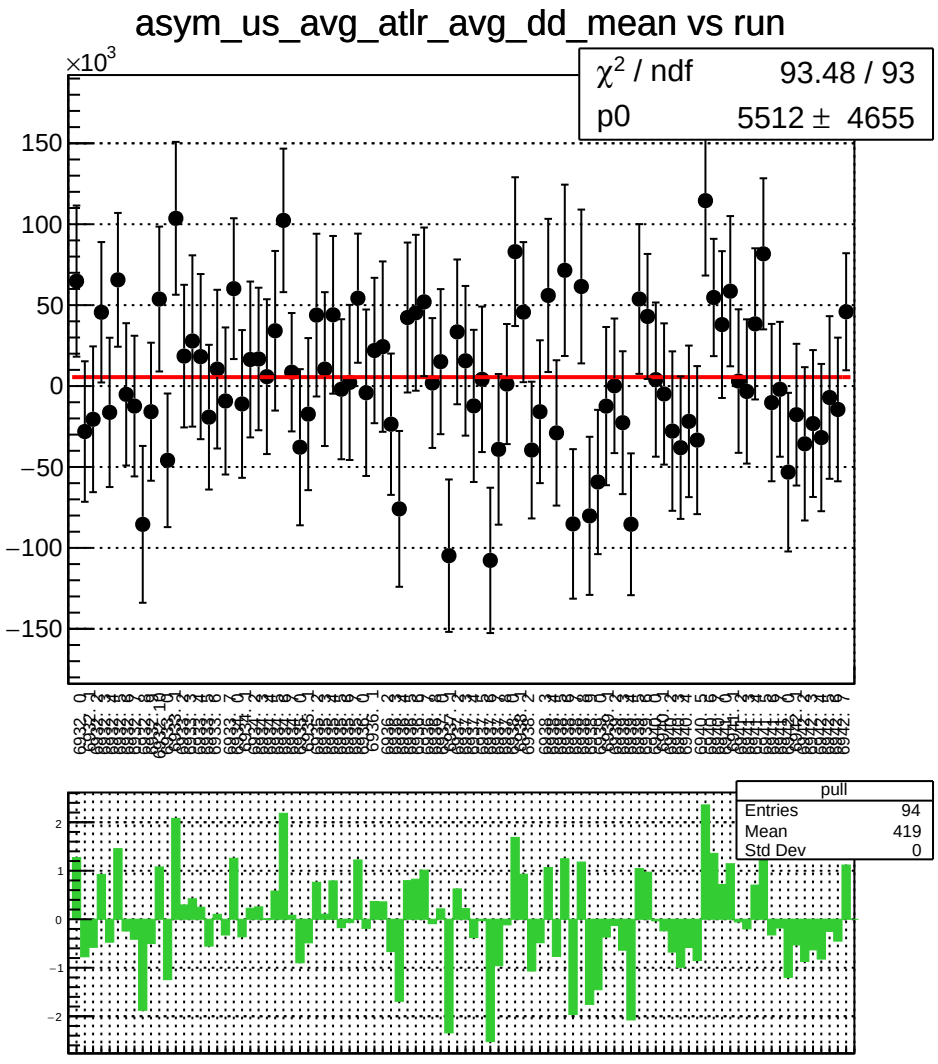

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 94.61 / 93
p0 515.9 ± 1227
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −213.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

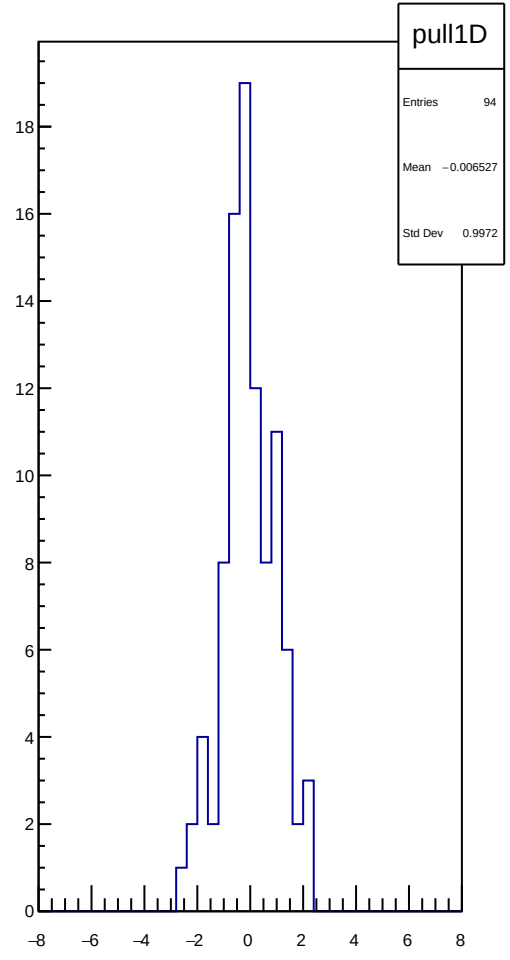

pull1D
Entries 94
Mean −0.01029
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

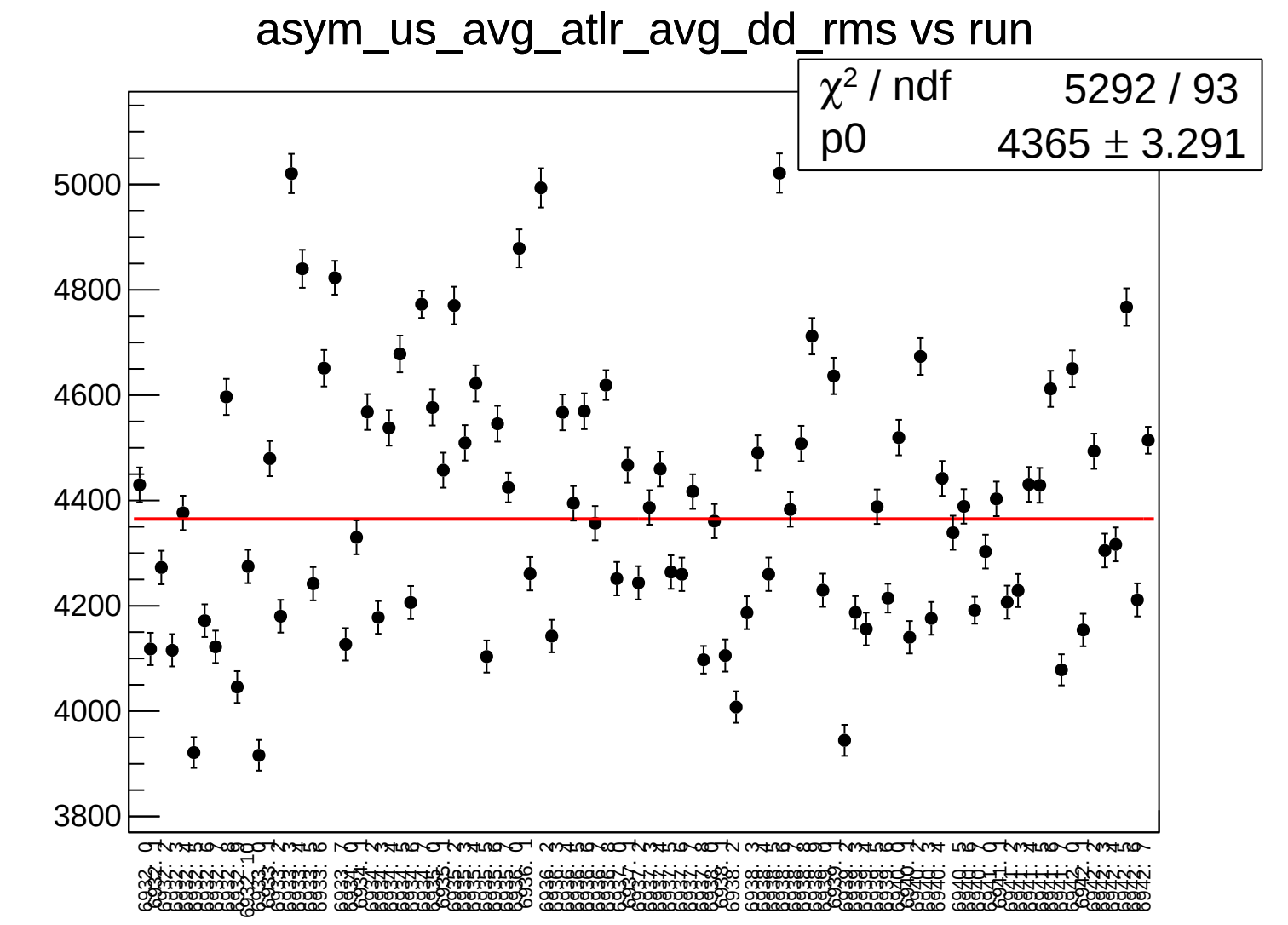

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 222.2 / 93
p0 1152 ± 0.8676
1200
1180
1160
1140
1120

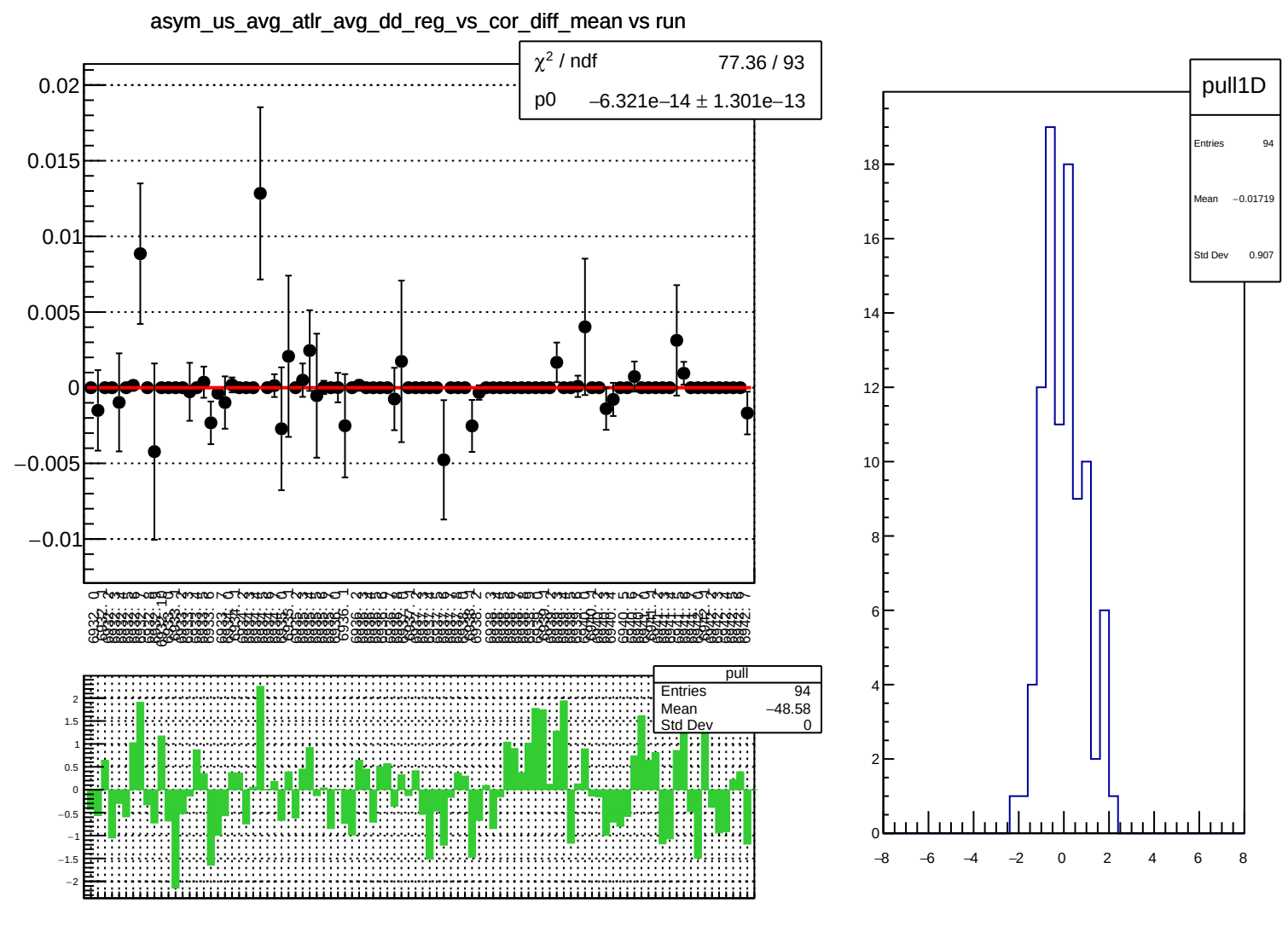

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.3 / 93
p0 −5363 ± 4790
pull
Entries 94
Mean 461.5
Std Dev 0
pull1D
Entries 94
Mean 0.007627
Std Dev 0.9581

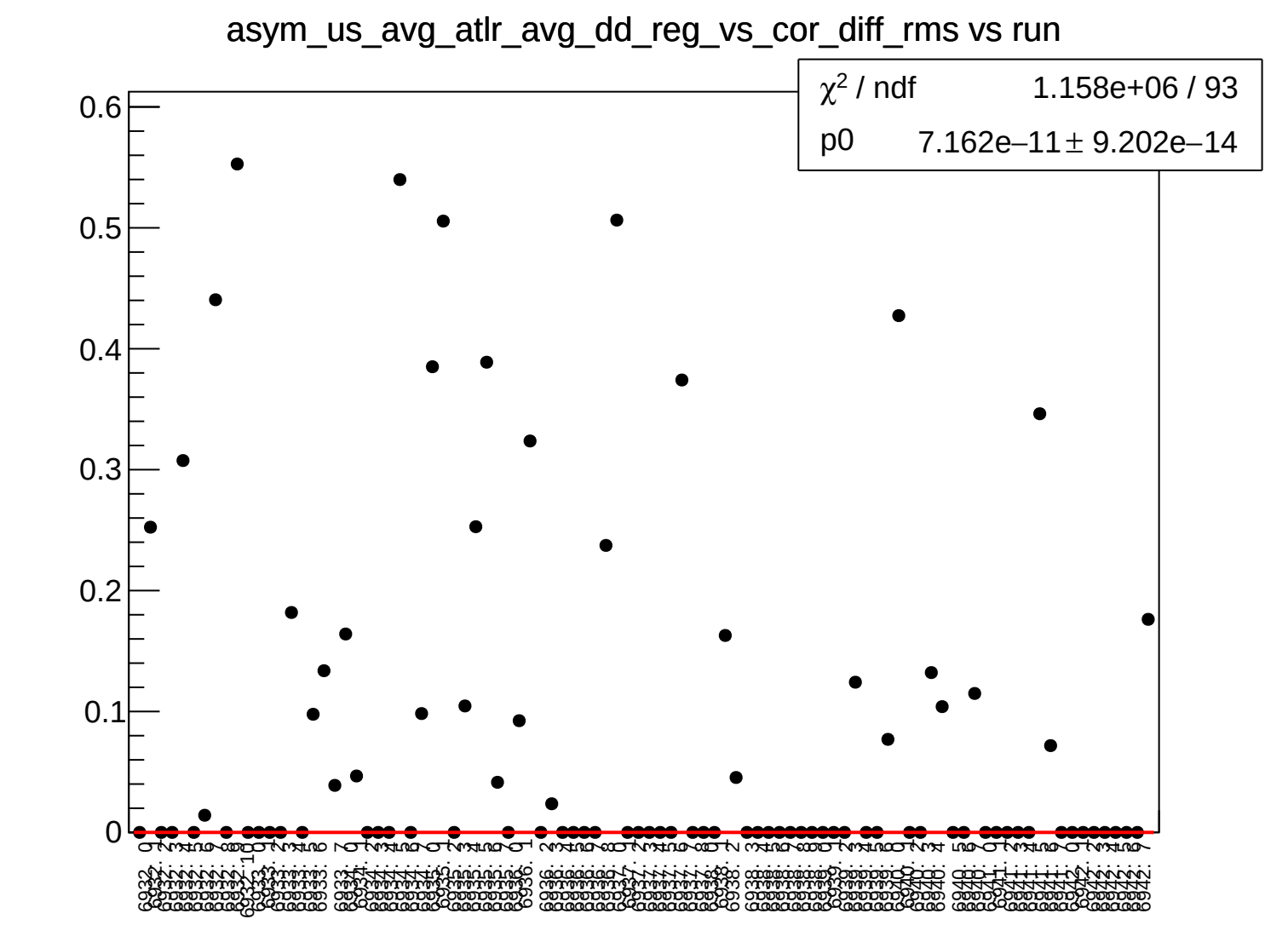

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5677 / 93
p0 4491 ± 3.387
5200
5000
4800
4600
4400
4200
4000

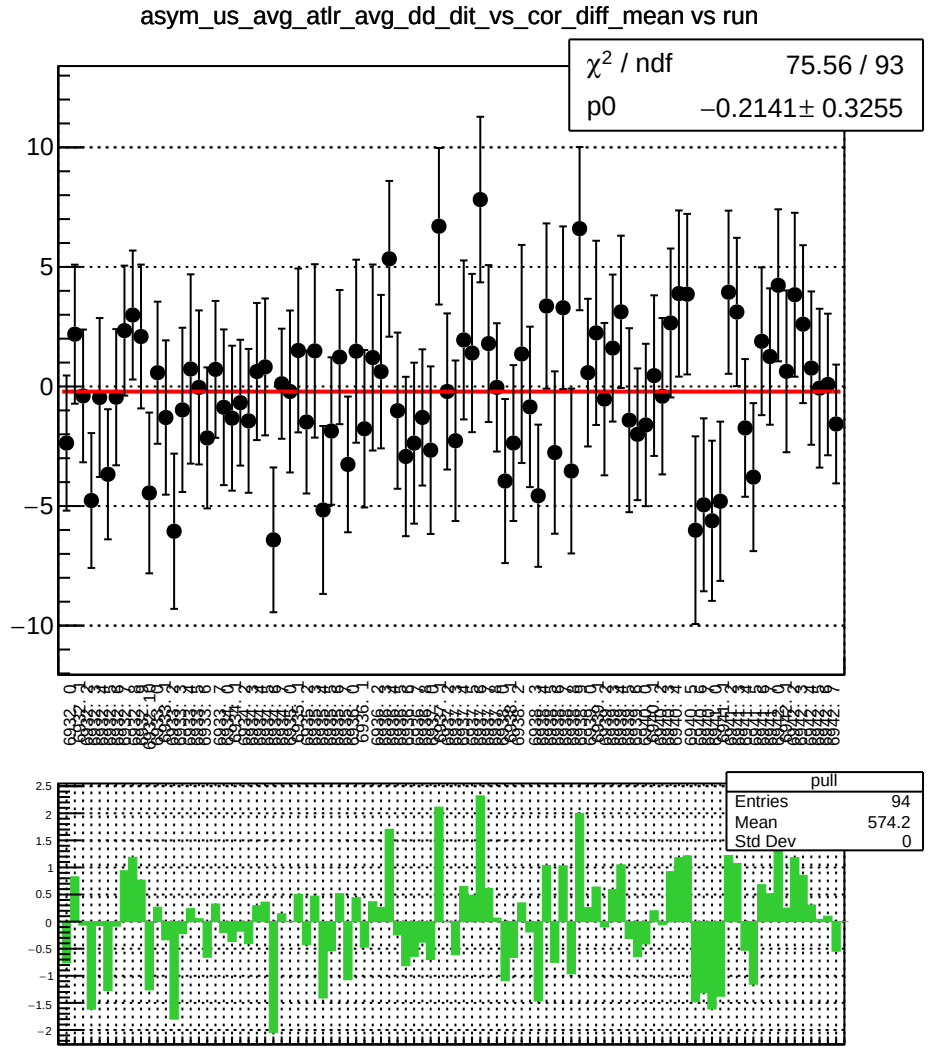

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 93.48 / 93
p0 5512 ± 4655
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 419
Std Dev 0
2
1
0
−1
−2

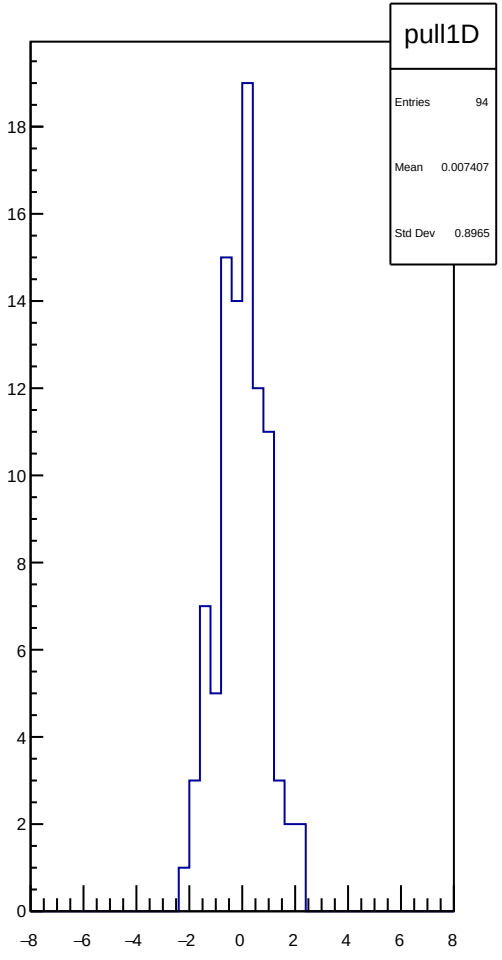

pull1D
Entries 94
Mean −0.006527
Std Dev 0.9972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

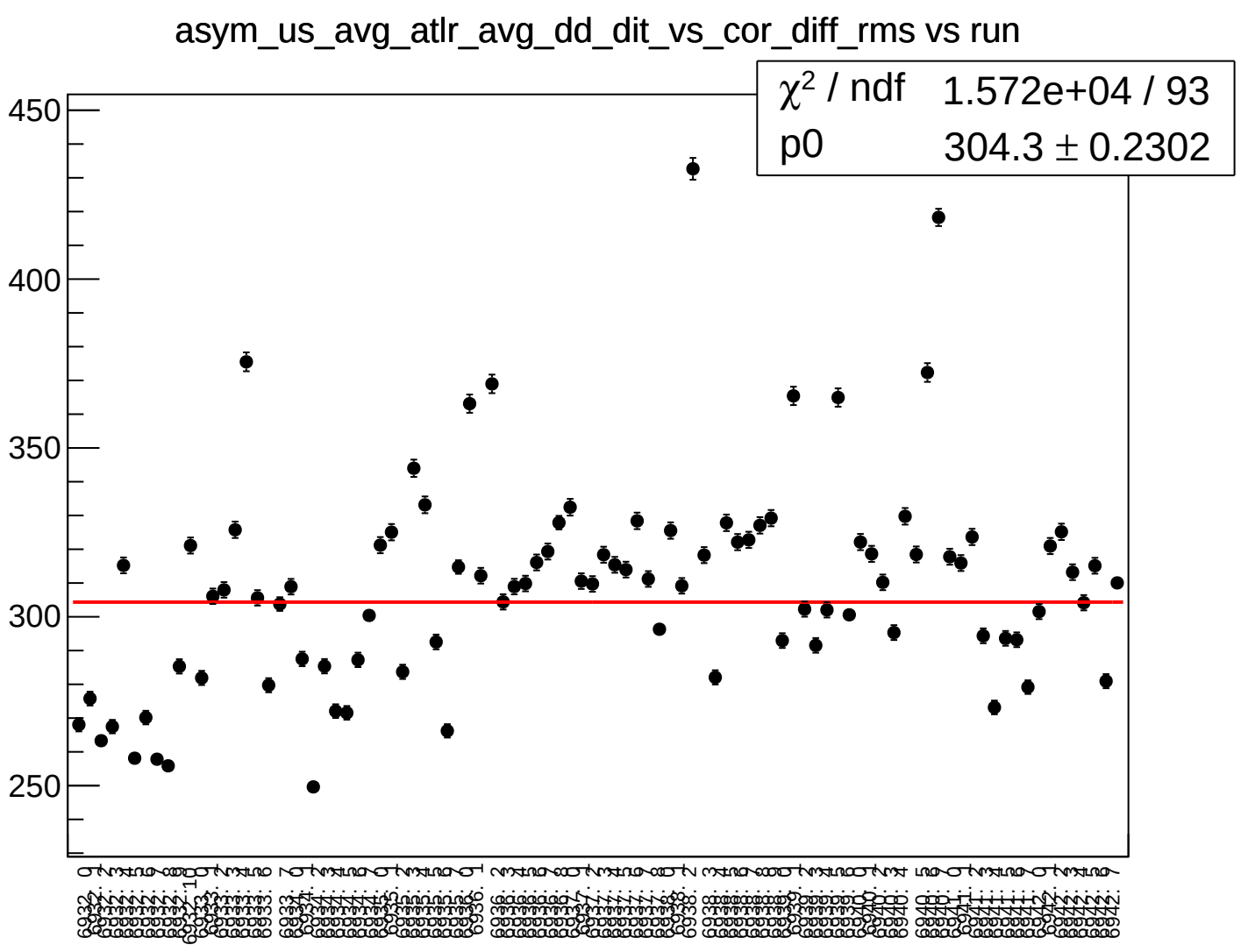

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5292 / 93
p0 4365 ± 3.291
5000
4800
4600
4400
4200
4000
3800

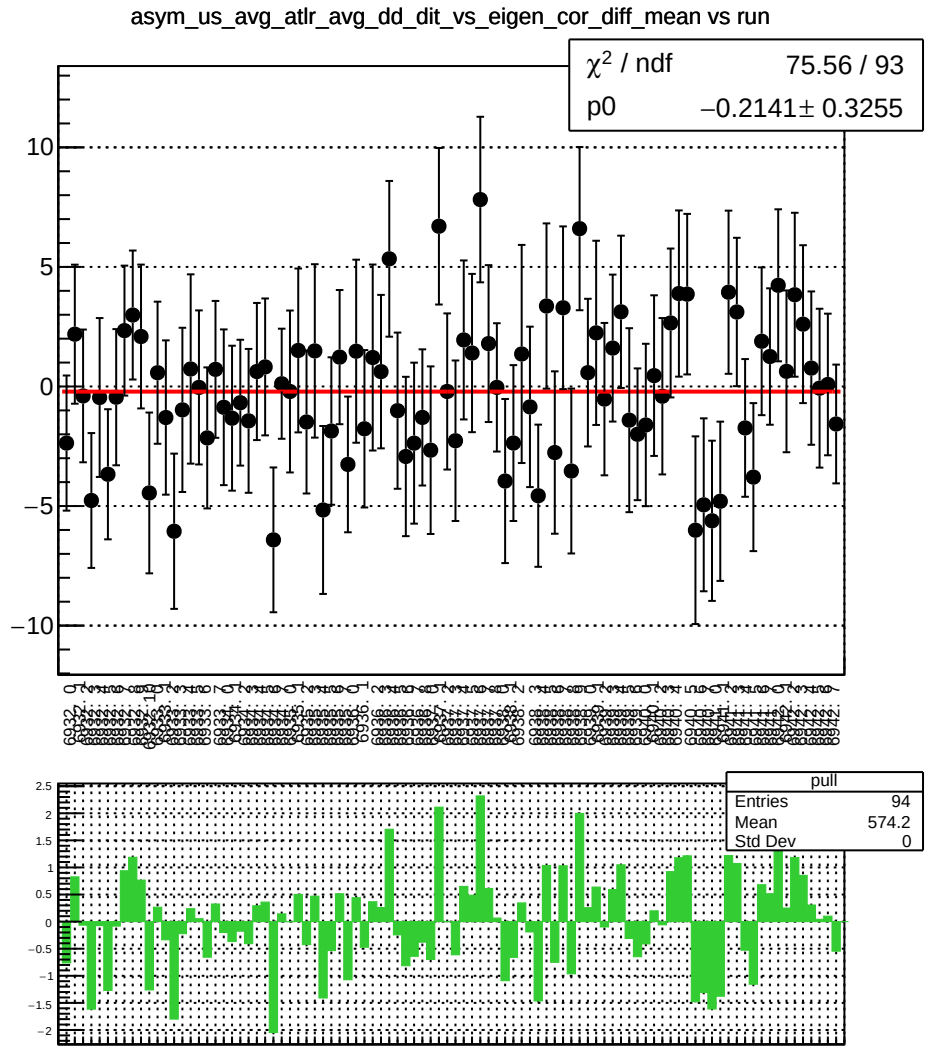

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.36 / 93
p0 −6.321e−14 ± 1.301e−13
pull
Entries 94
Mean −48.58
Std Dev 0
pull1D
Entries 94
Mean −0.01719
Std Dev 0.907

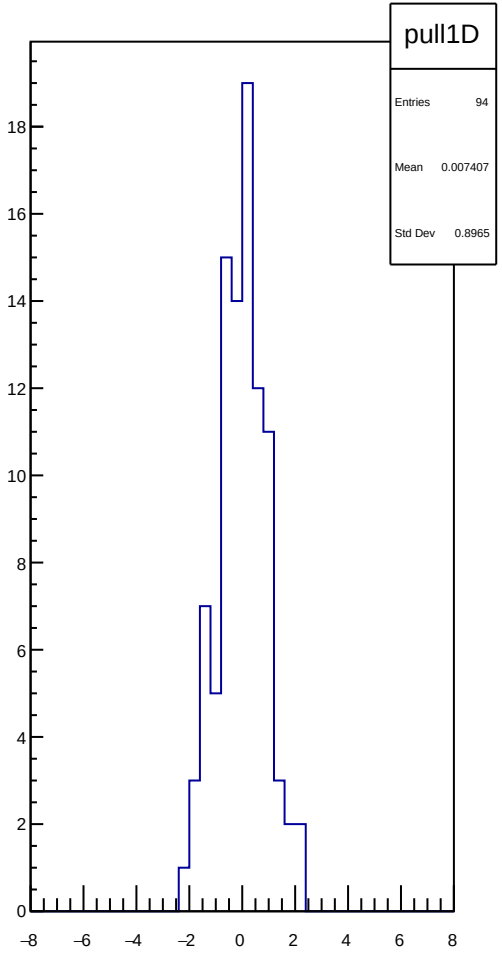

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 93
p0 7.162e−11 ± 9.202e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

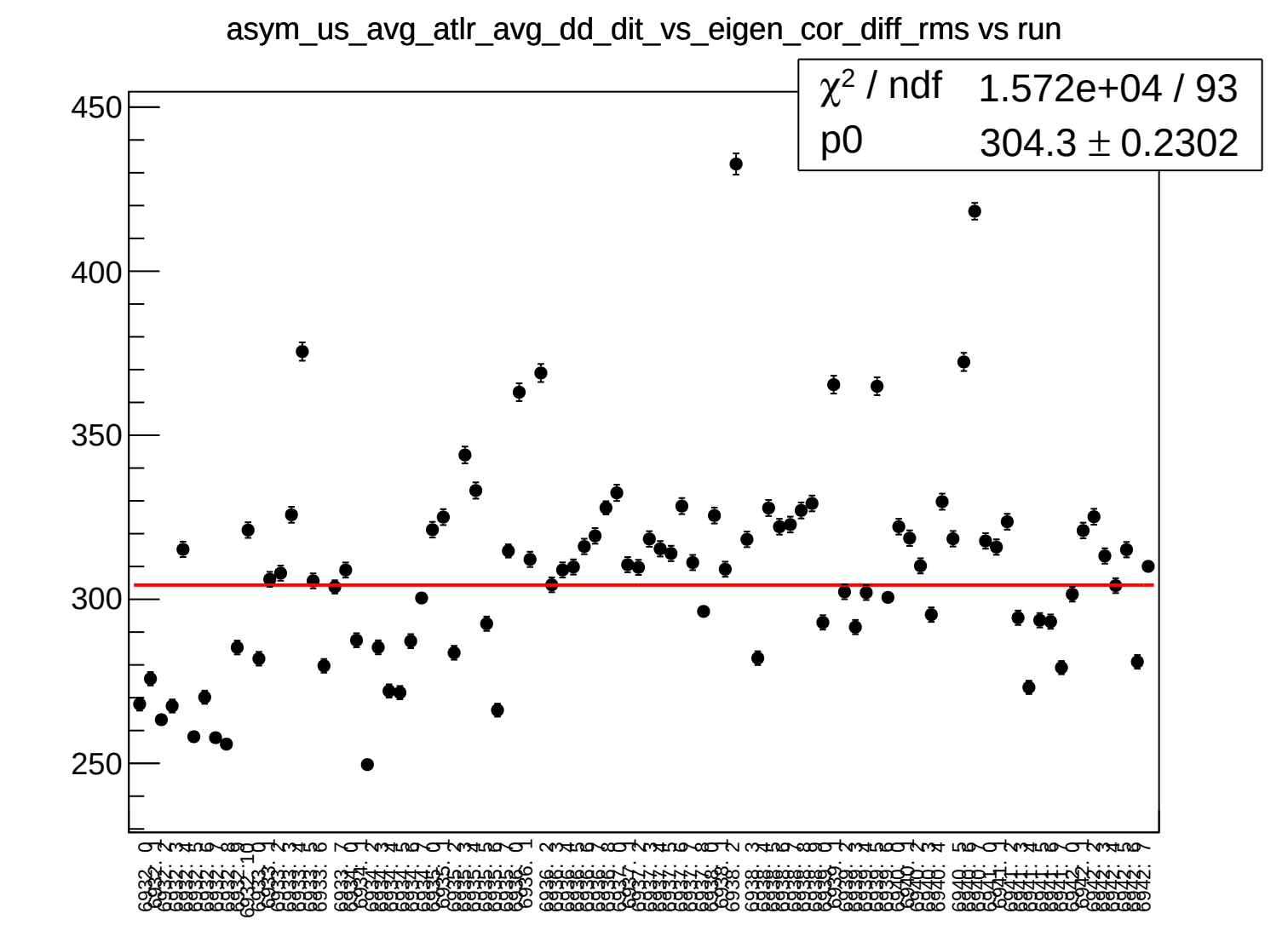

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.56 / 93
p0 −0.2141± 0.3255
pull
Entries 94
Mean 574.2
Std Dev 0

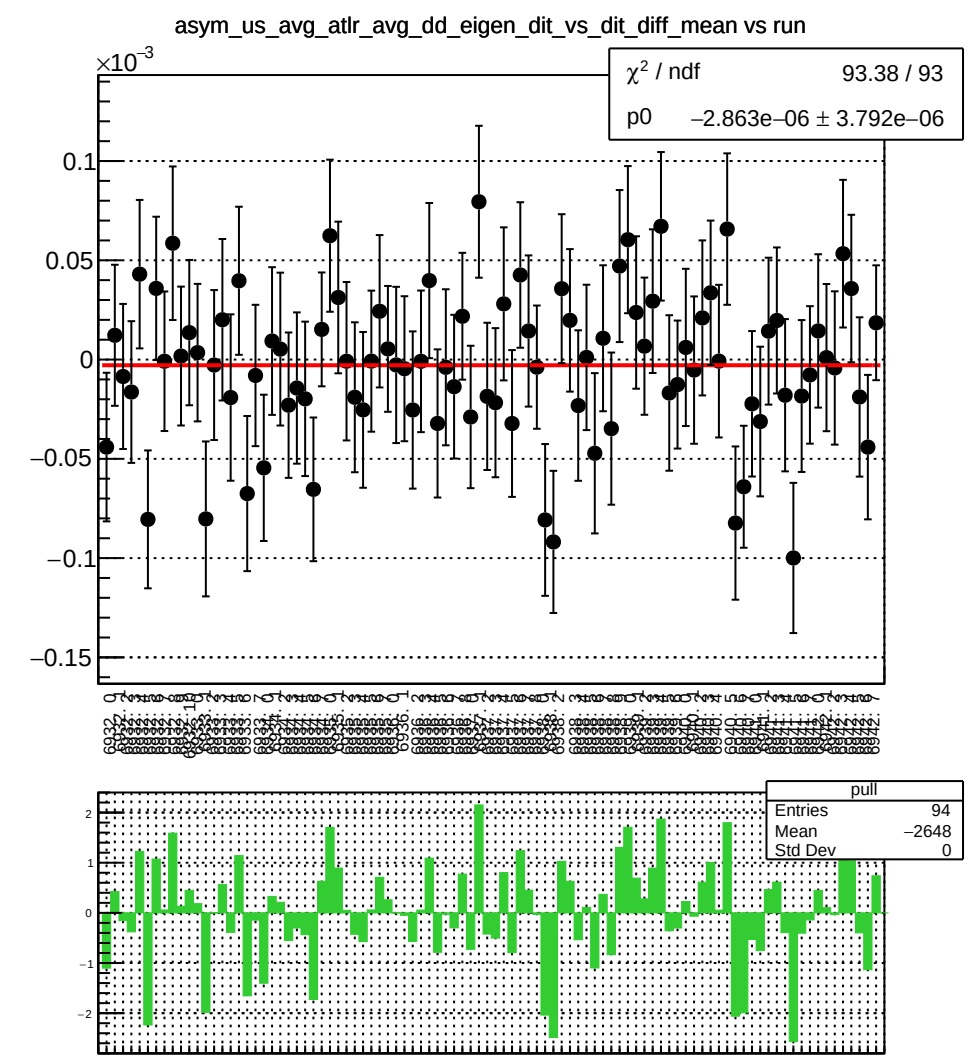

pull1D
Entries 94
Mean 0.007407
Std Dev 0.8965

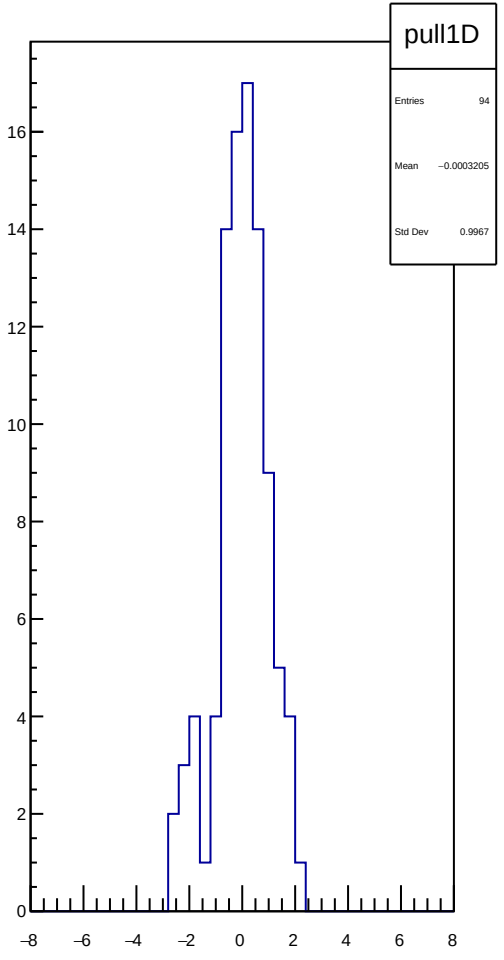

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 93
p0 304.3 ± 0.2302
450
400
350
300
250

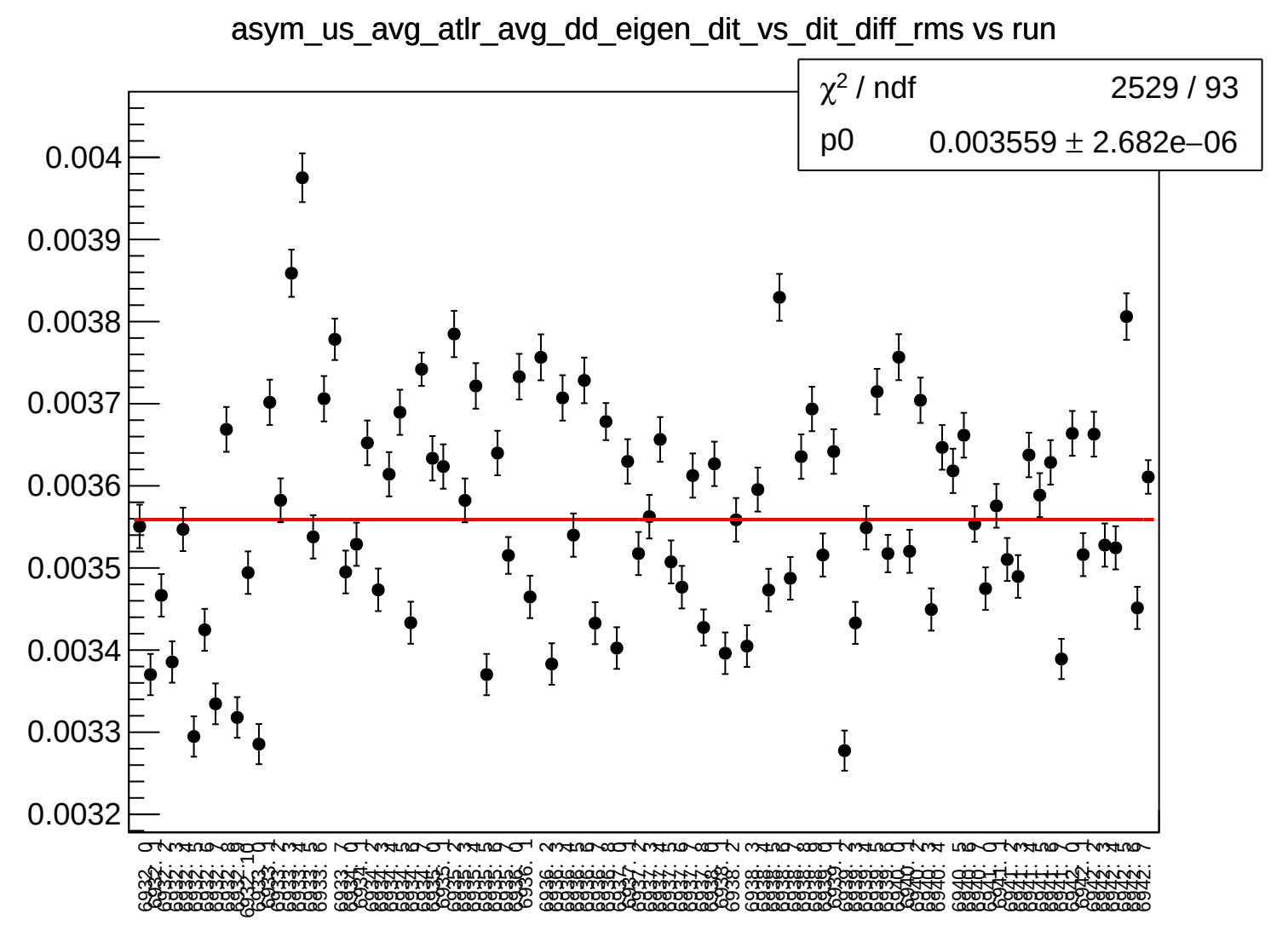

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.56 / 93
p0 −0.2141± 0.3255
pull
Entries 94
Mean 574.2
Std Dev 0

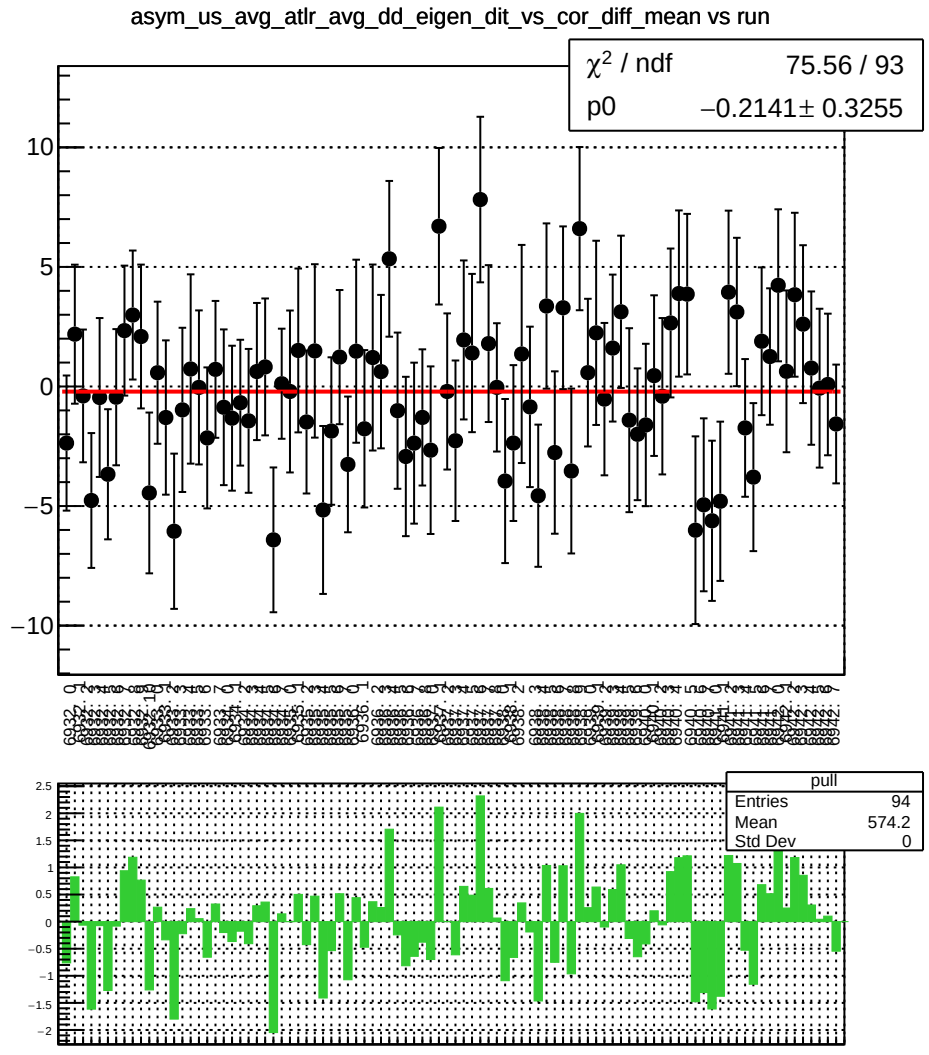

pull1D
Entries 94
Mean 0.007407
Std Dev 0.8965

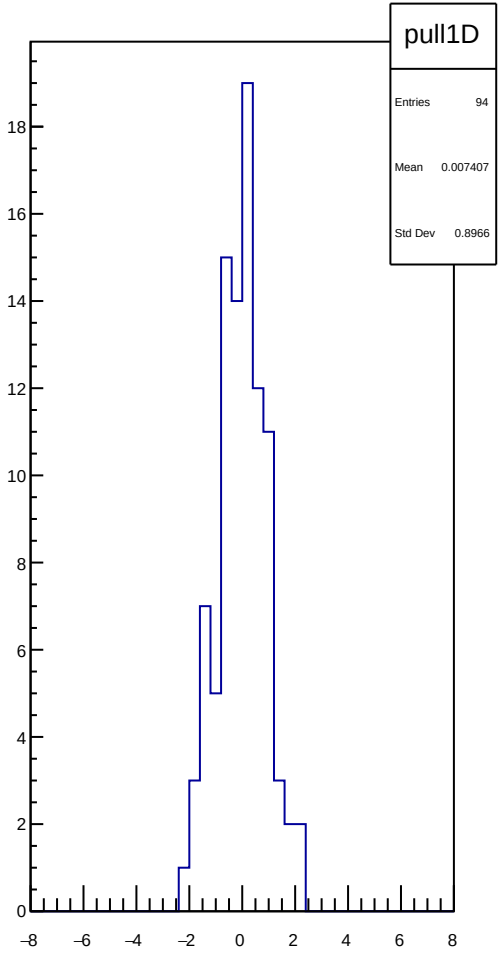

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 93
p0 304.3 ± 0.2302
450
400
350
300
250

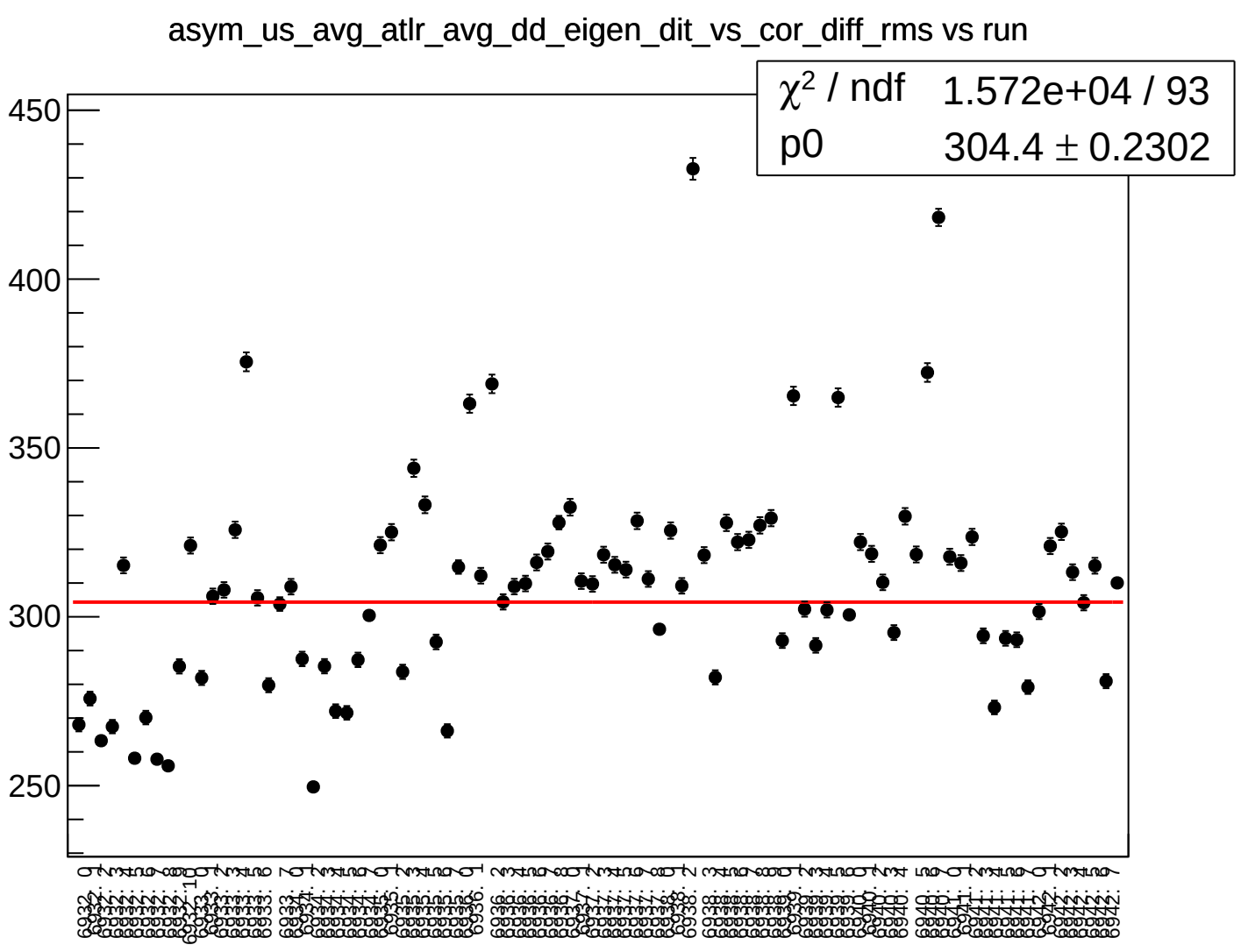

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.38 / 93
p0 −2.863e−06 ± 3.792e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −2648
Std Dev 0
2
1
0
−1
−2

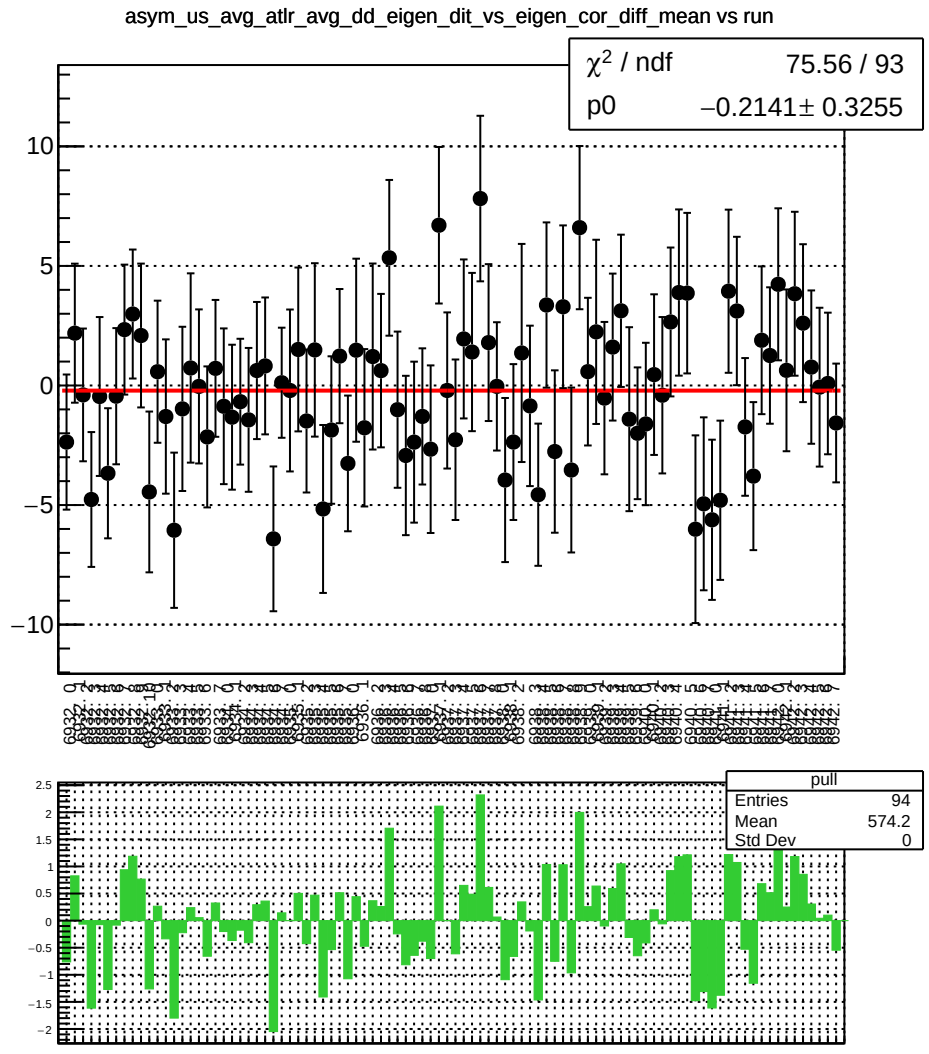

pull1D
Entries 94
Mean −0.0003205
Std Dev 0.9967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

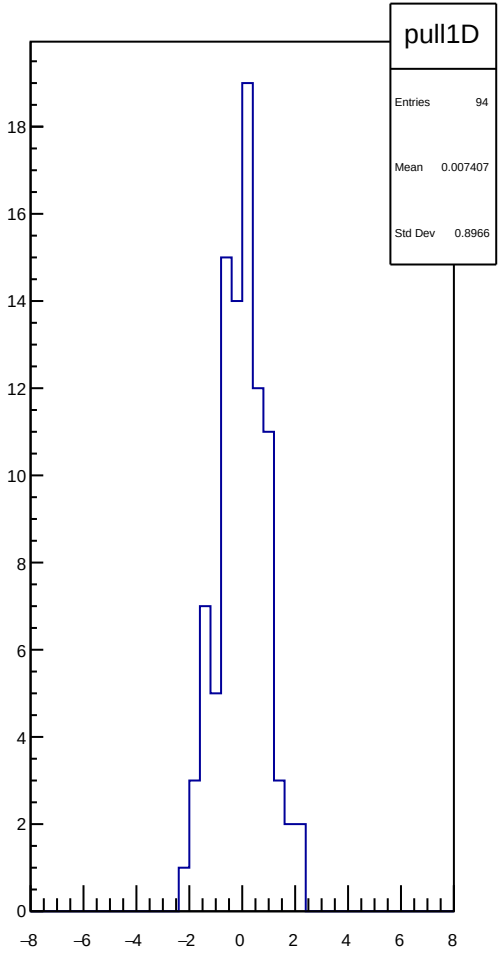

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2529 / 93
p0 0.003559 ± 2.682e−06
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032

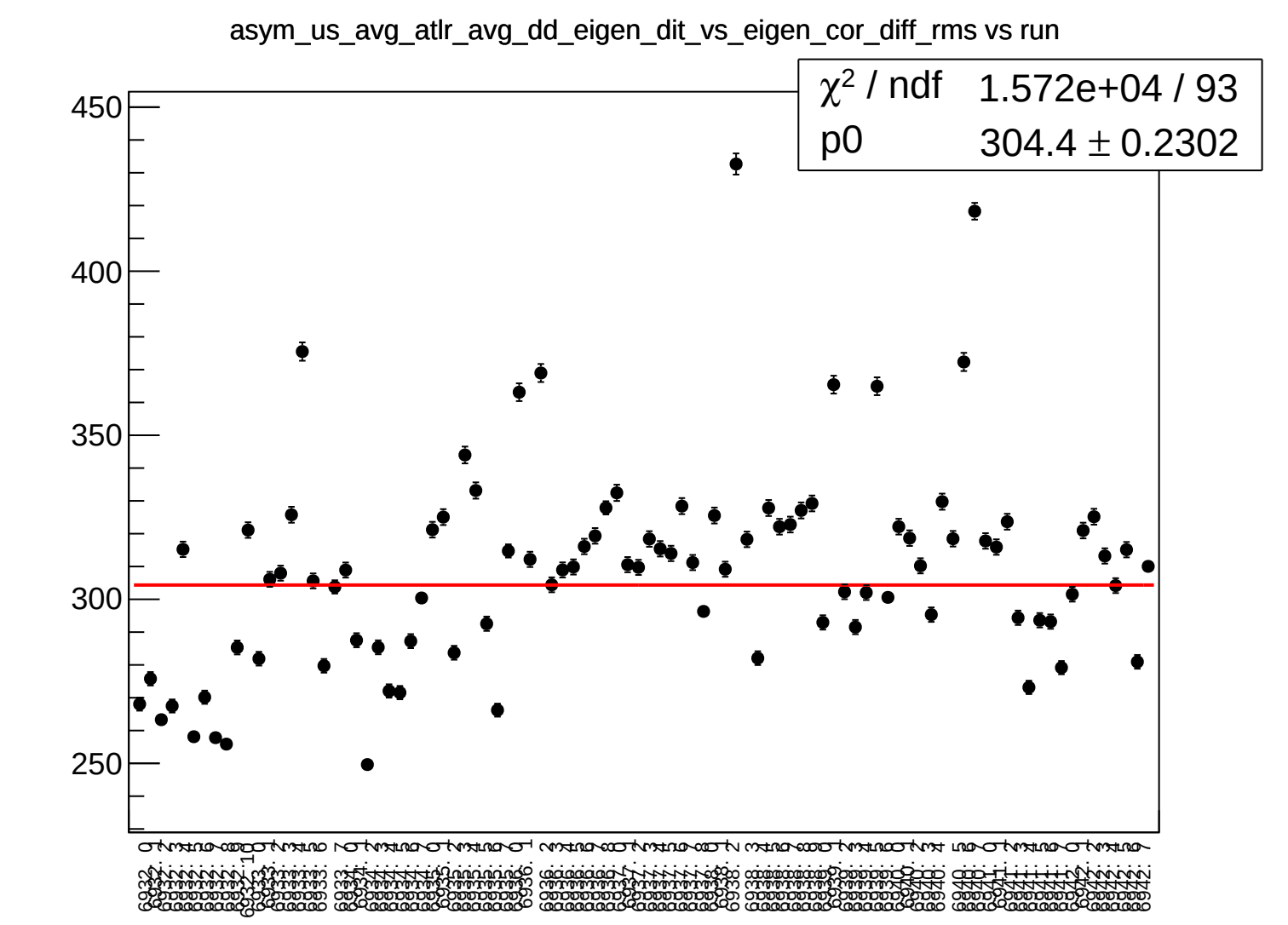

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.56 / 93
p0 −0.2141± 0.3255
pull
Entries 94
Mean 574.2
Std Dev 0

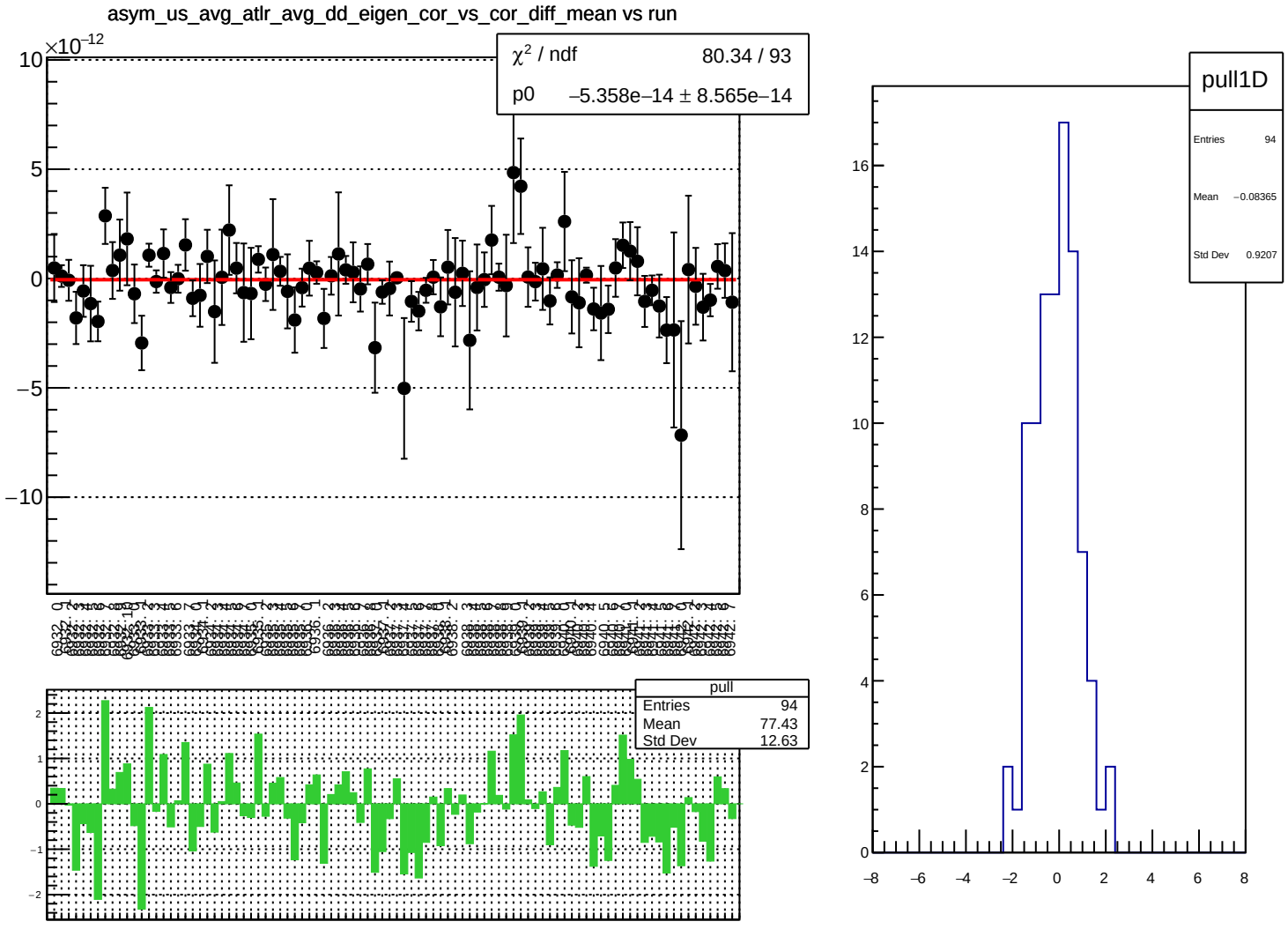

pull1D
Entries 94
Mean 0.007407
Std Dev 0.8966

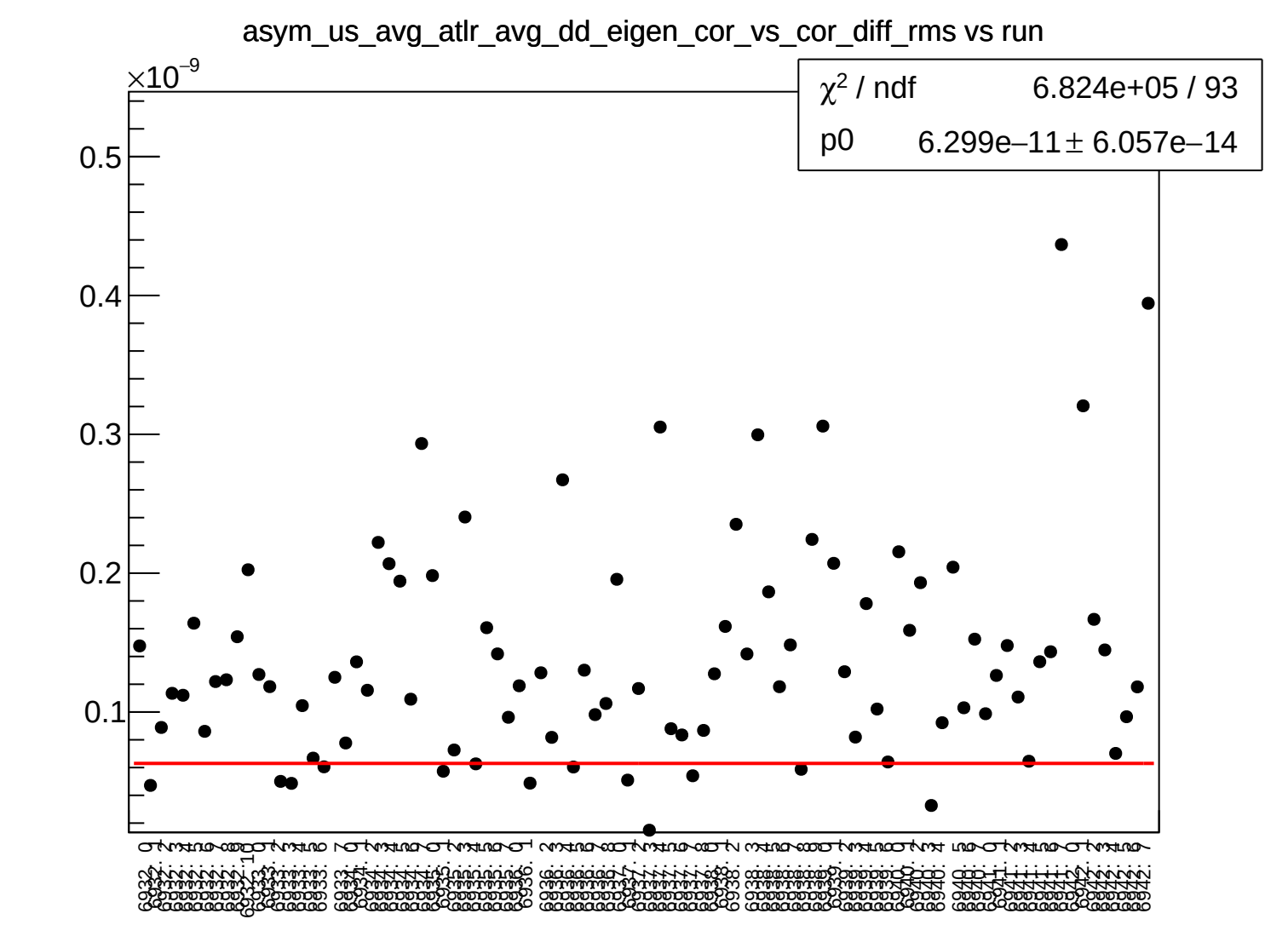

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 93
p0 304.4 ± 0.2302
450
400
350
300
250

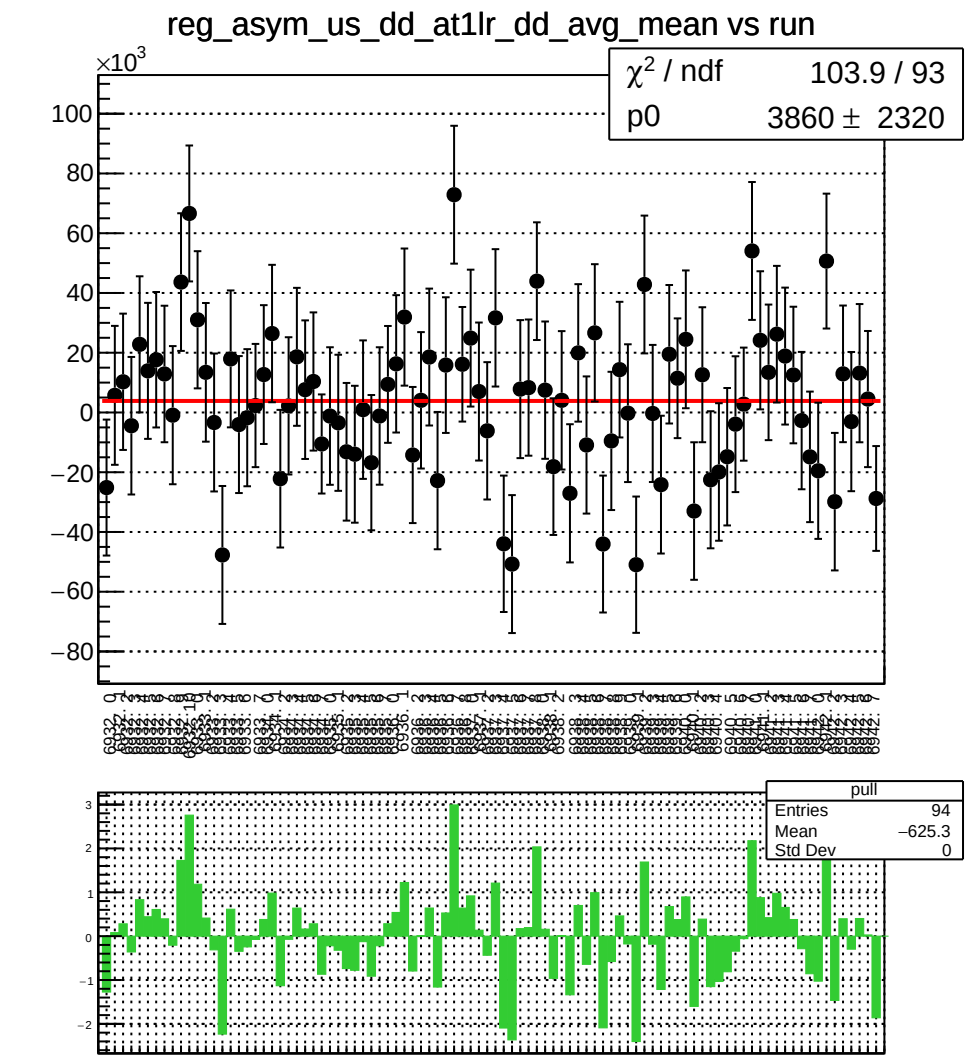

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.56 / 93
p0 −0.2141± 0.3255
pull
Entries 94
Mean 574.2
Std Dev 0

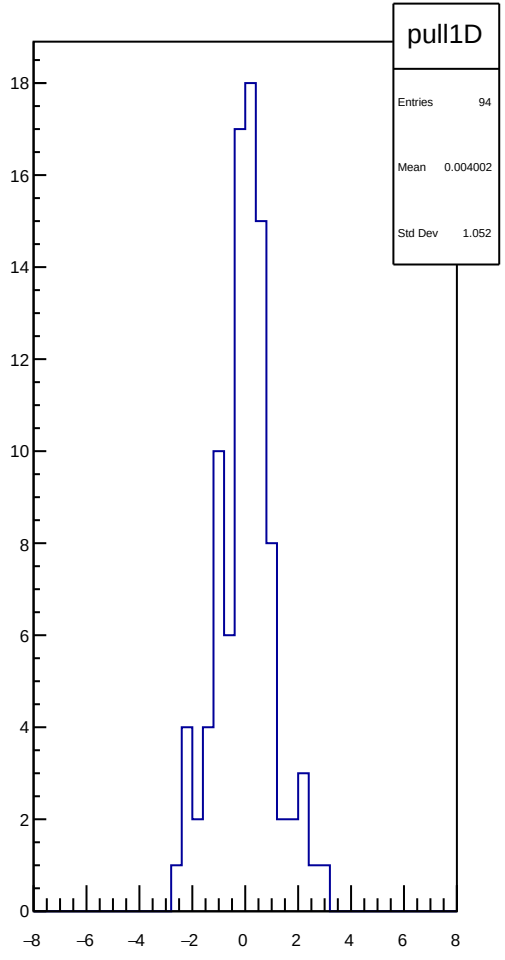

pull1D
Entries 94
Mean 0.007407
Std Dev 0.8966

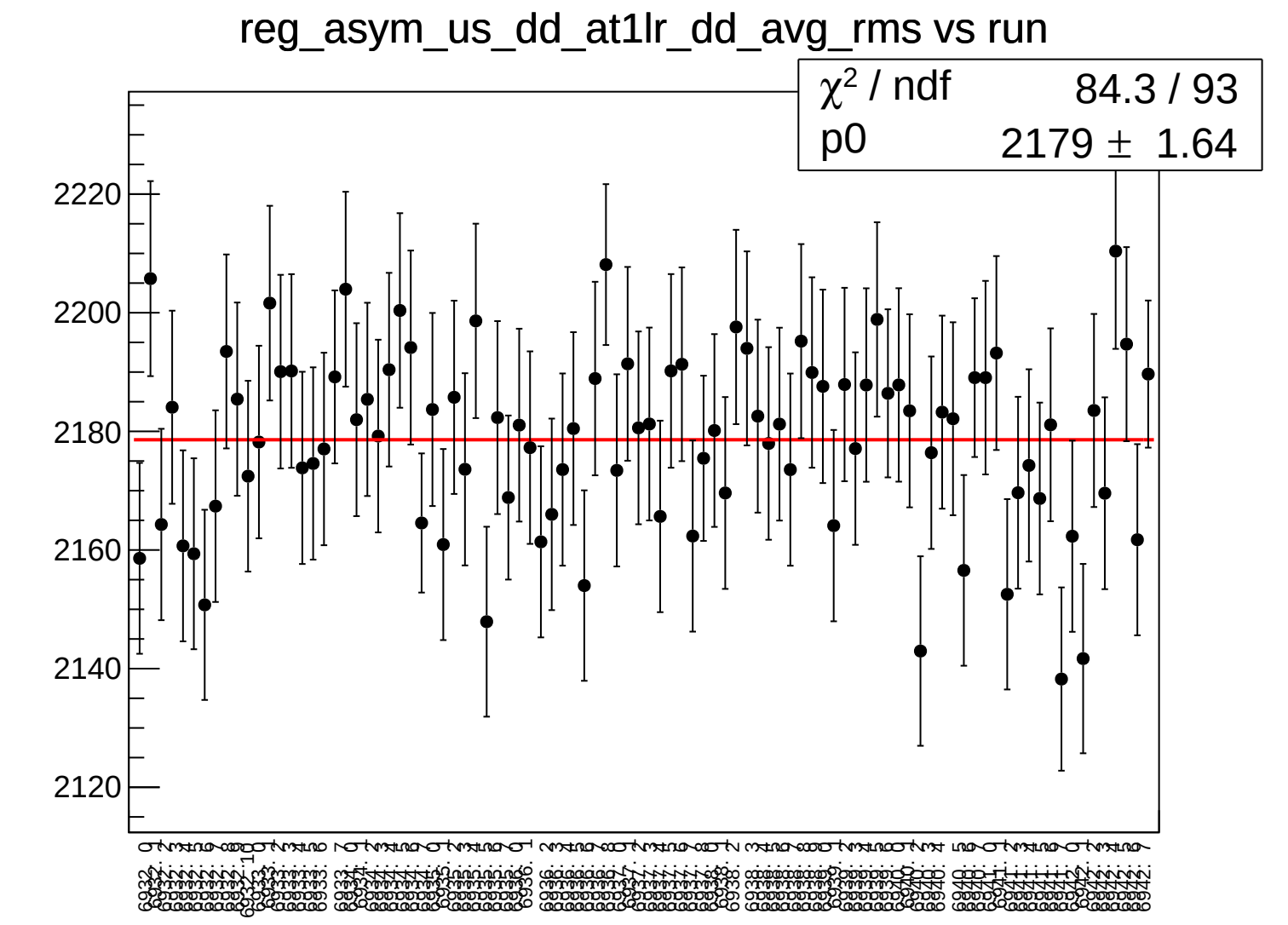

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.572e+04 / 93
p0 304.4 ± 0.2302
450
400
350
300
250

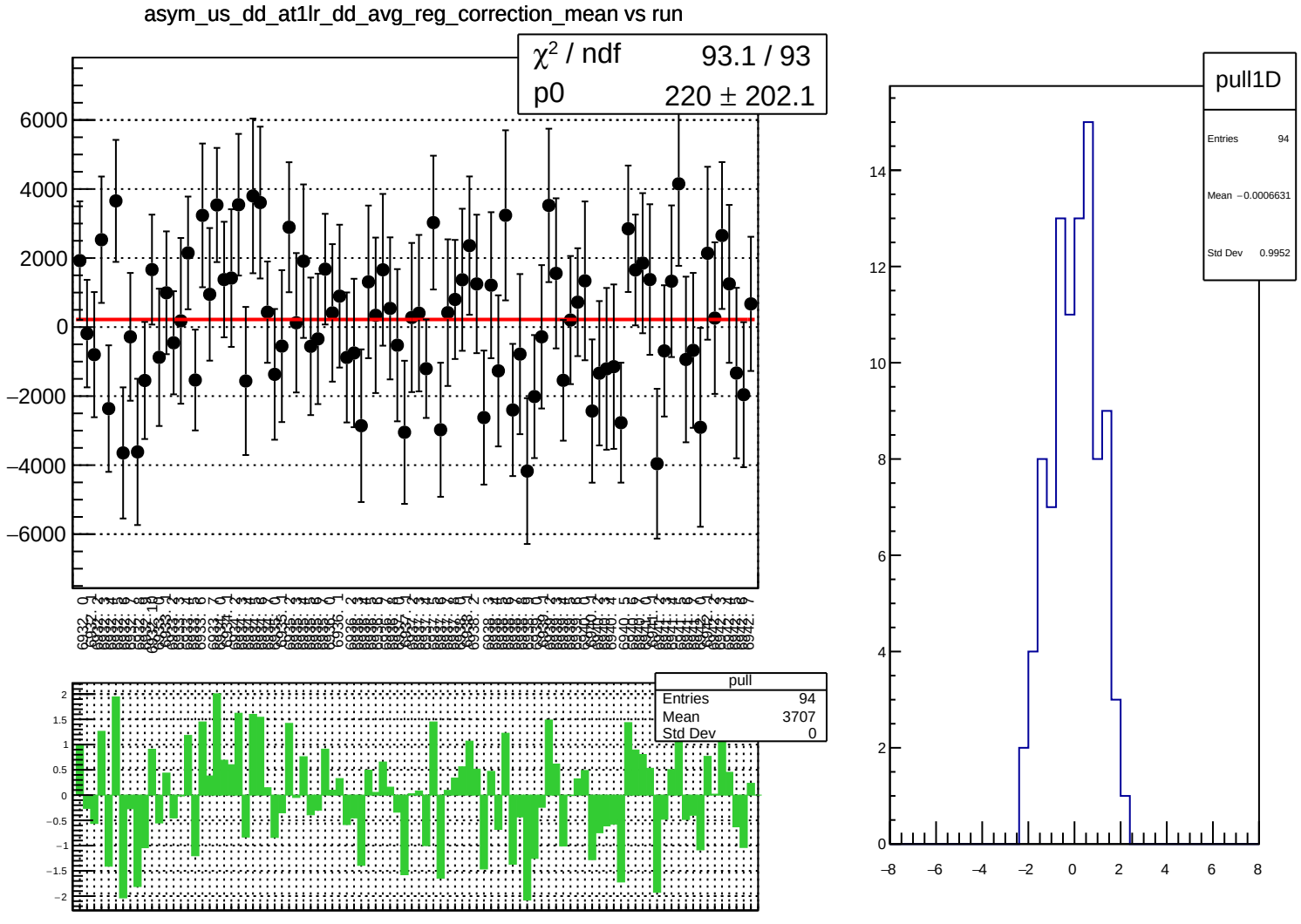

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.34 / 93
p0 −5.358e−14 ± 8.565e−14
pull
Entries 94
Mean 77.43
Std Dev 12.63
pull1D
Entries 94
Mean −0.08365
Std Dev 0.9207

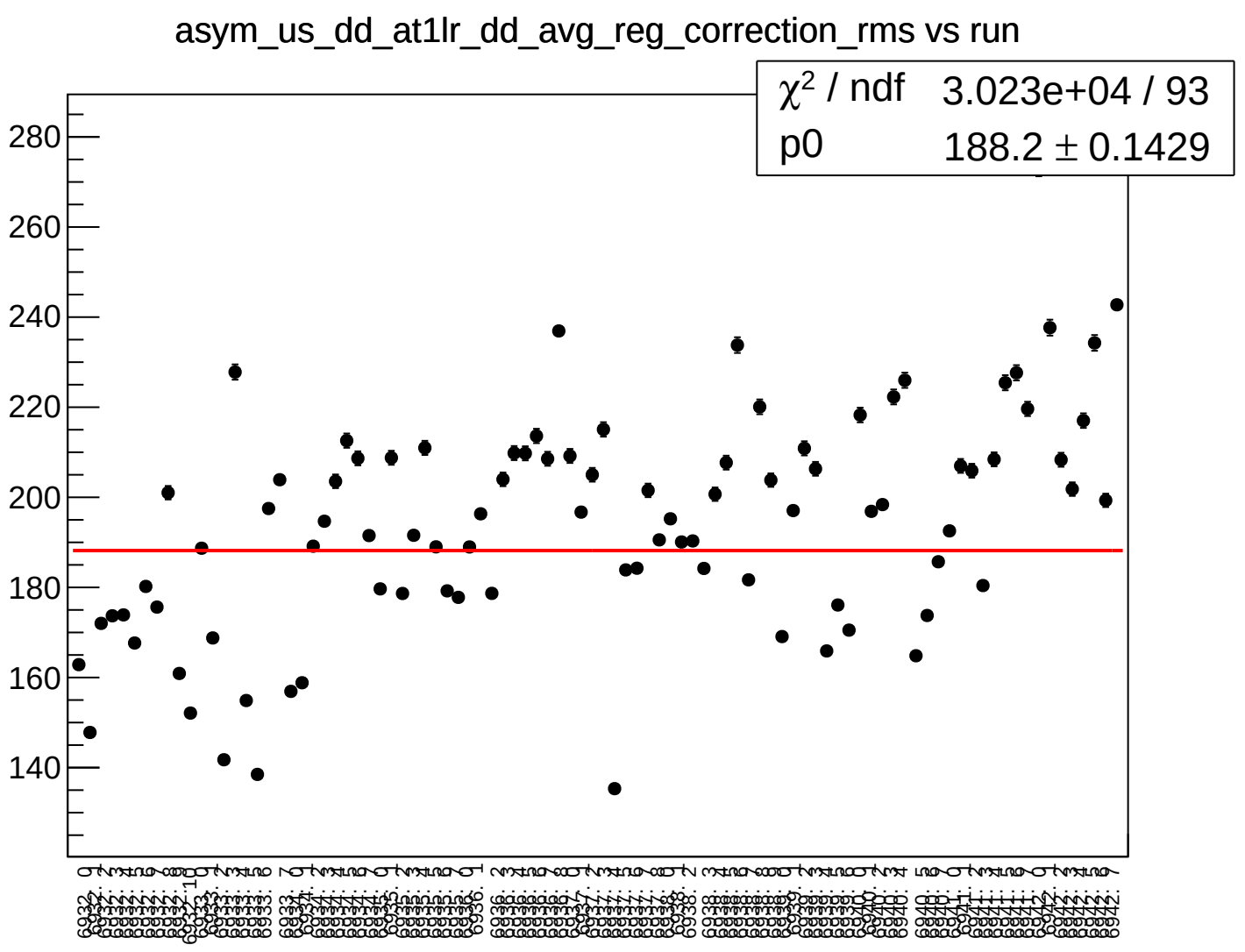

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.824e+05 / 93
p0 6.299e−11 ± 6.057e−14
0.5
0.4
0.3
0.2
0.1

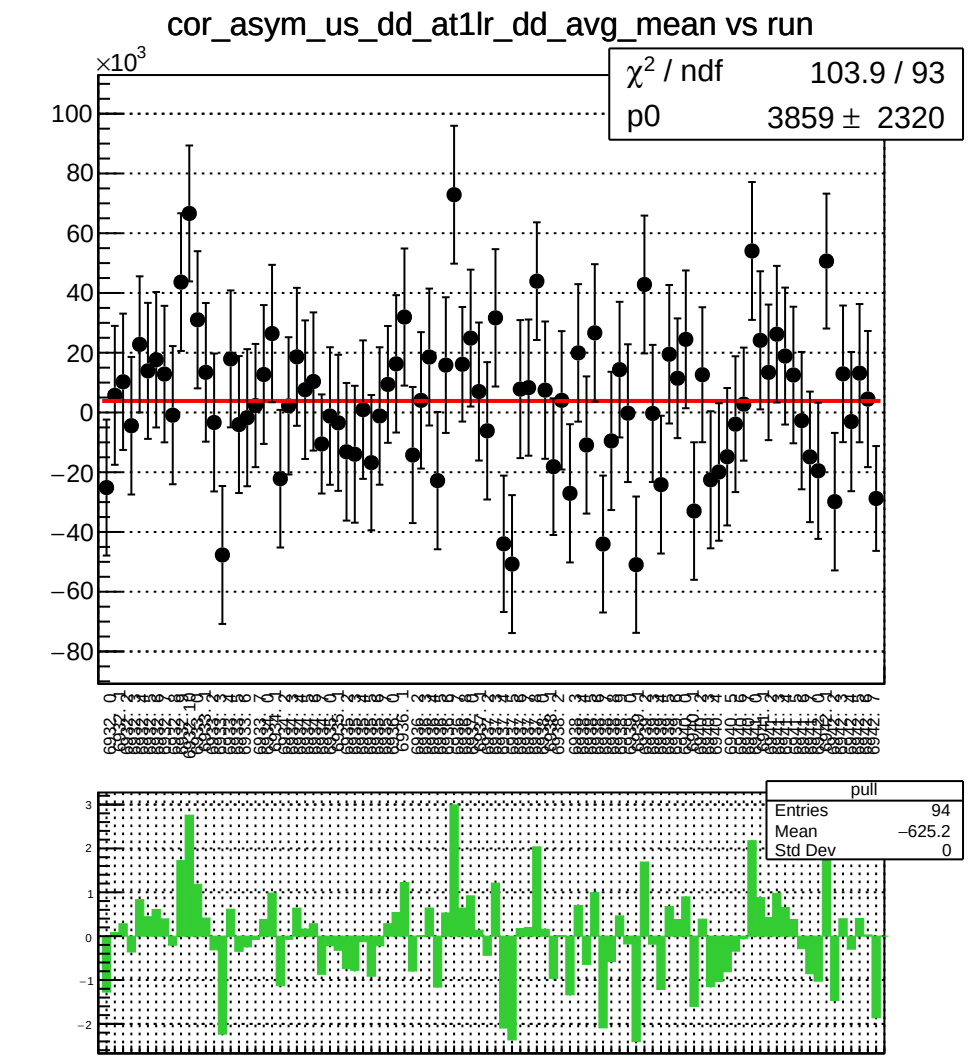

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 103.9 / 93
p0 3860 ± 2320
pull
Entries 94
Mean −625.3
Std Dev 0

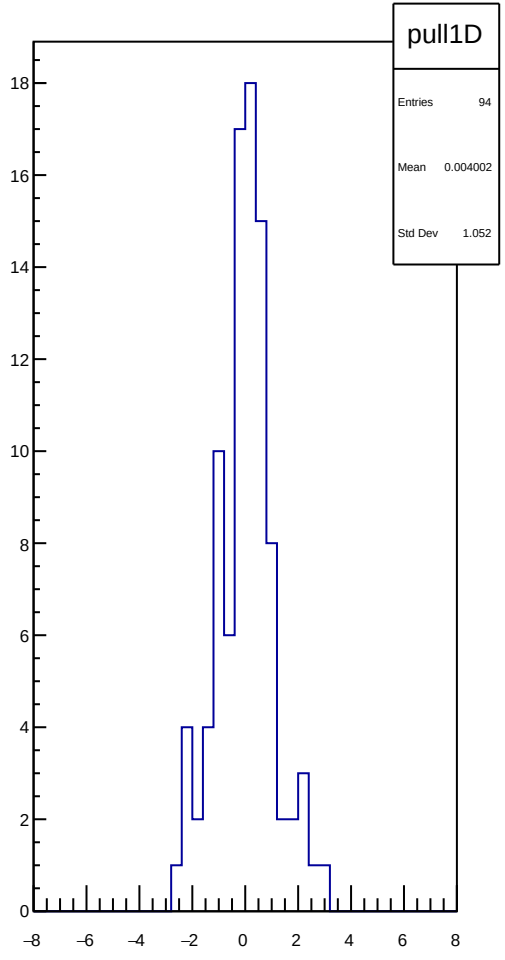

pull1D
Entries 94
Mean 0.004002
Std Dev 1.052

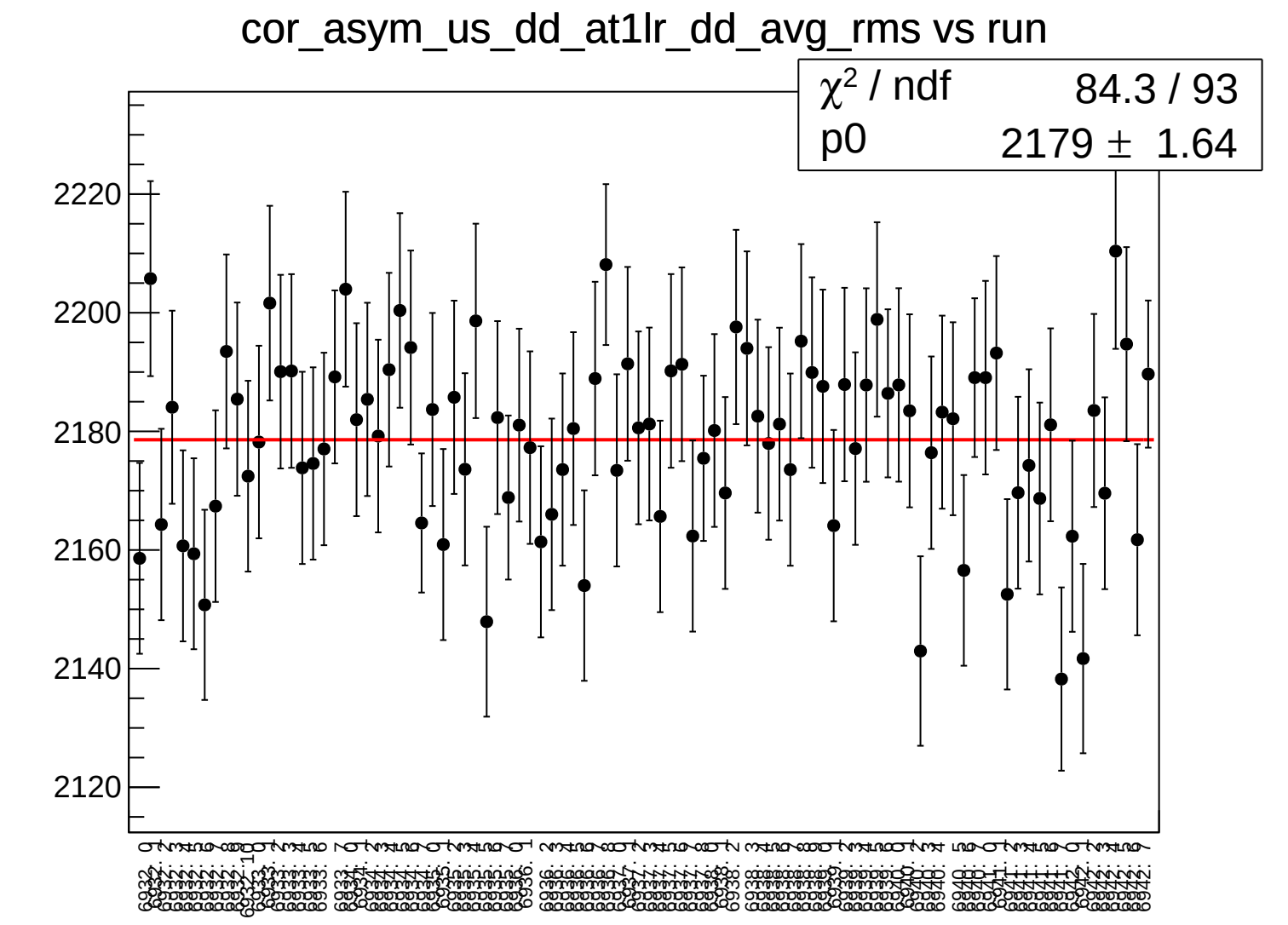

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.3 / 93
p0 2179 ± 1.64
2220
2200
2180
2160
2140
2120

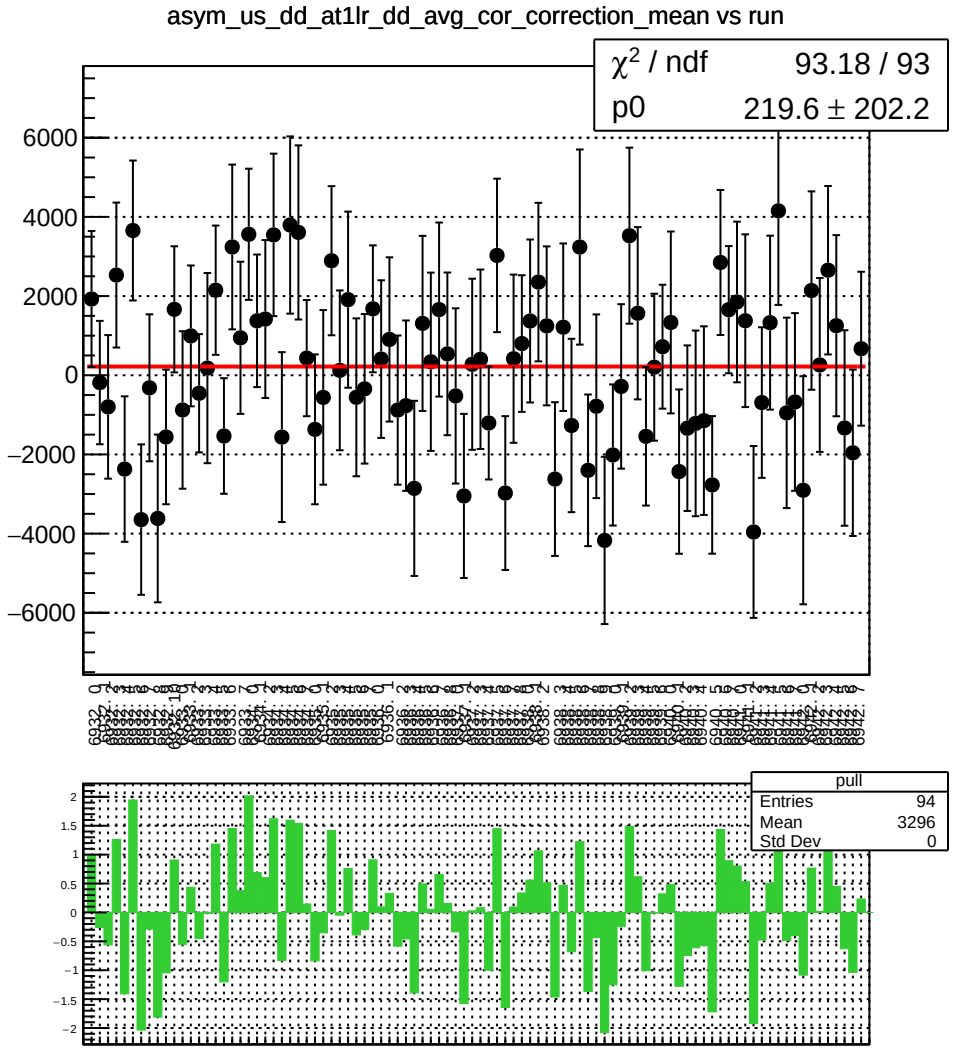

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 93.1 / 93
p0 220 ± 202.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 3707
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0006631
Std Dev 0.9952
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

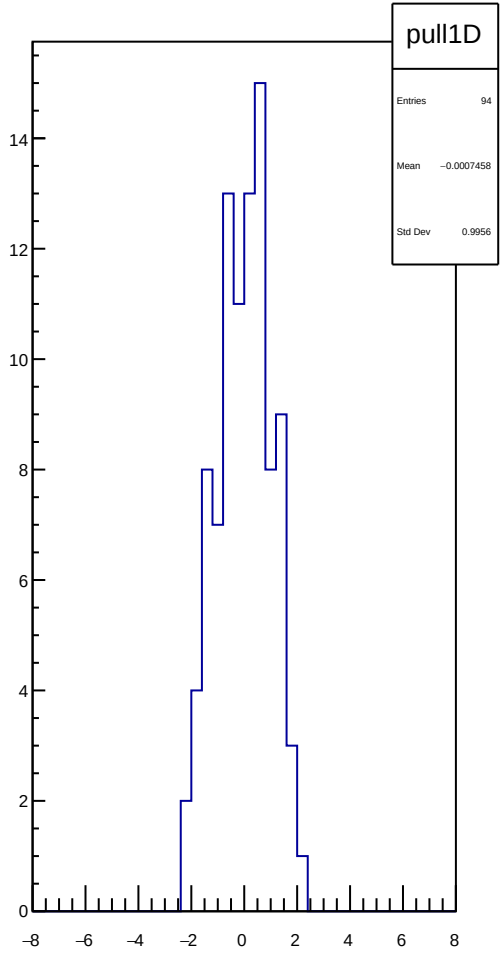

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.023e+04 / 93
p0 188.2 ± 0.1429
280
260
240
220
200
180
160
140

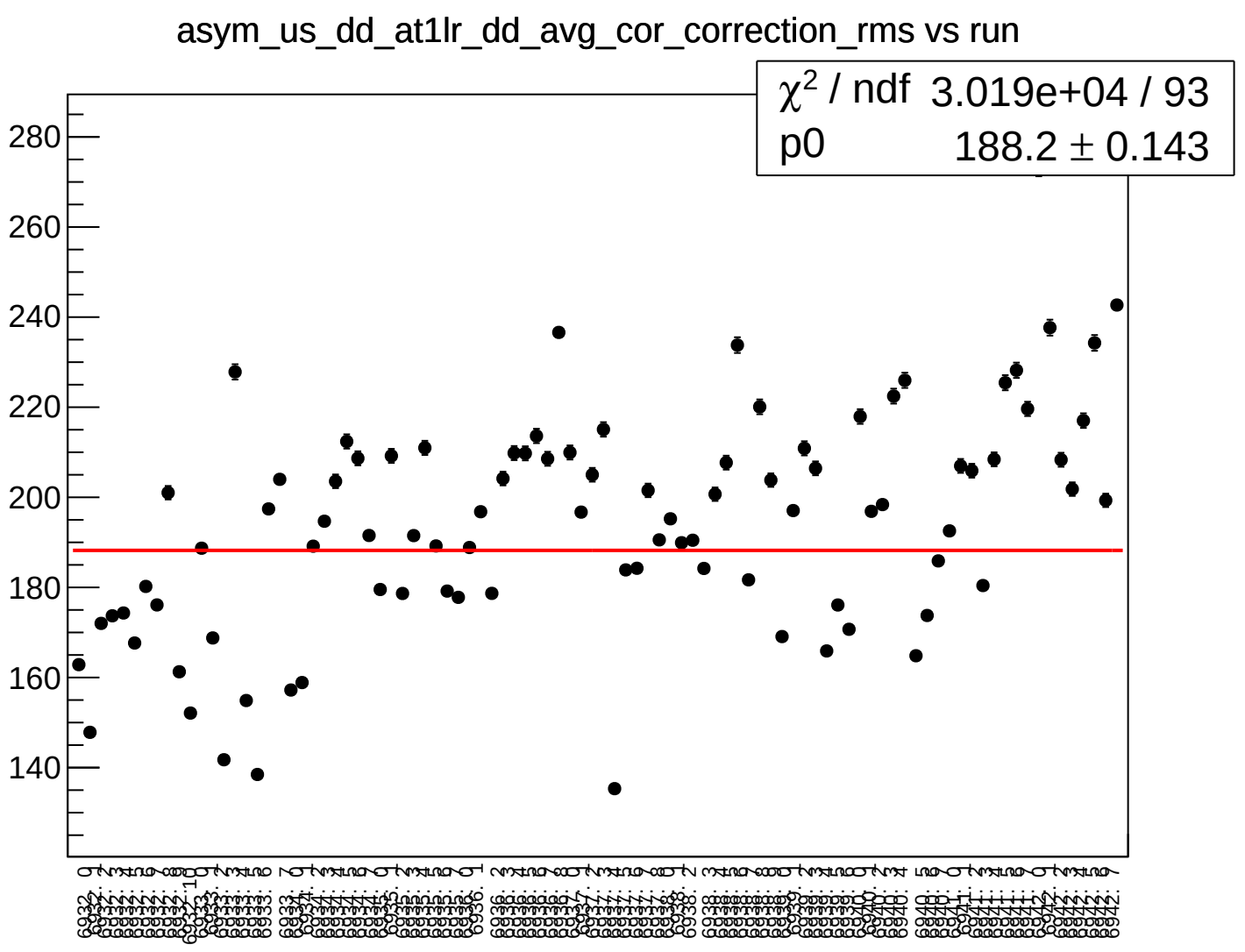

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 103.9 / 93
p0 3859 ± 2320
pull
Entries 94
Mean −625.2
Std Dev 0

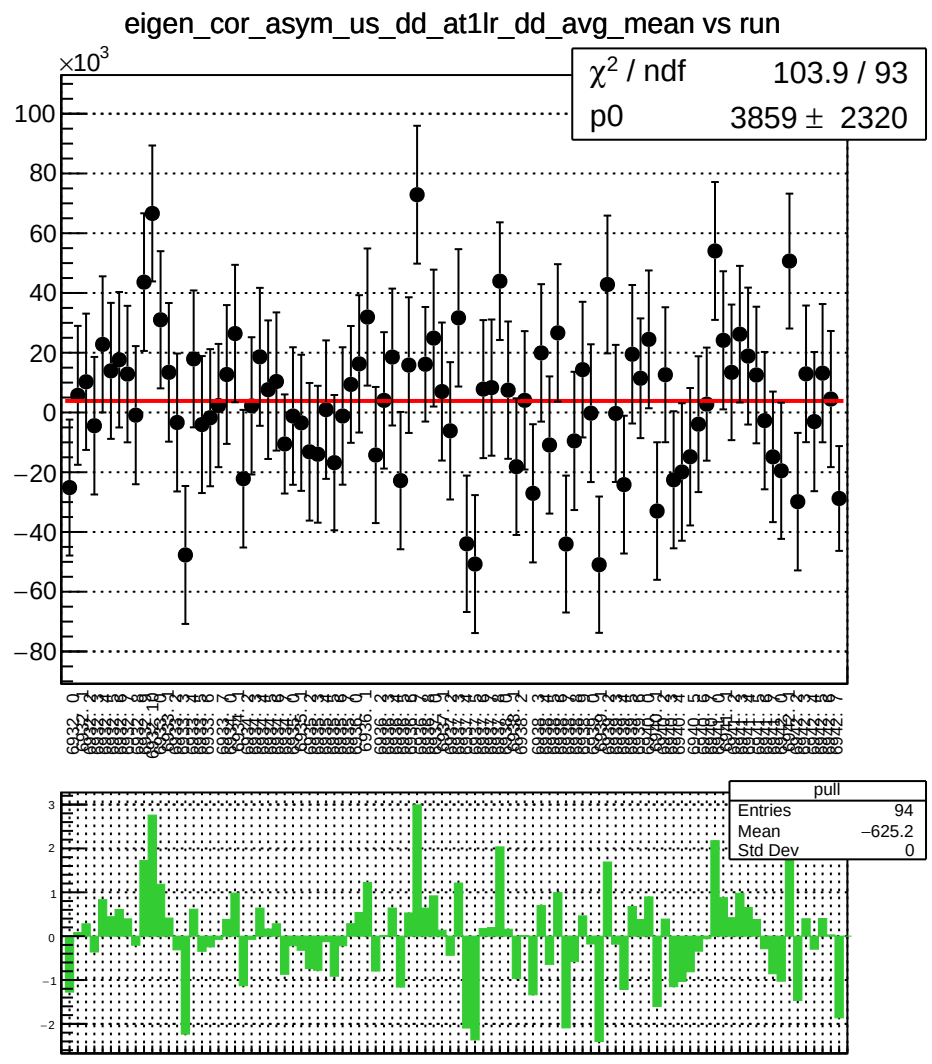

pull1D
Entries 94
Mean 0.004002
Std Dev 1.052

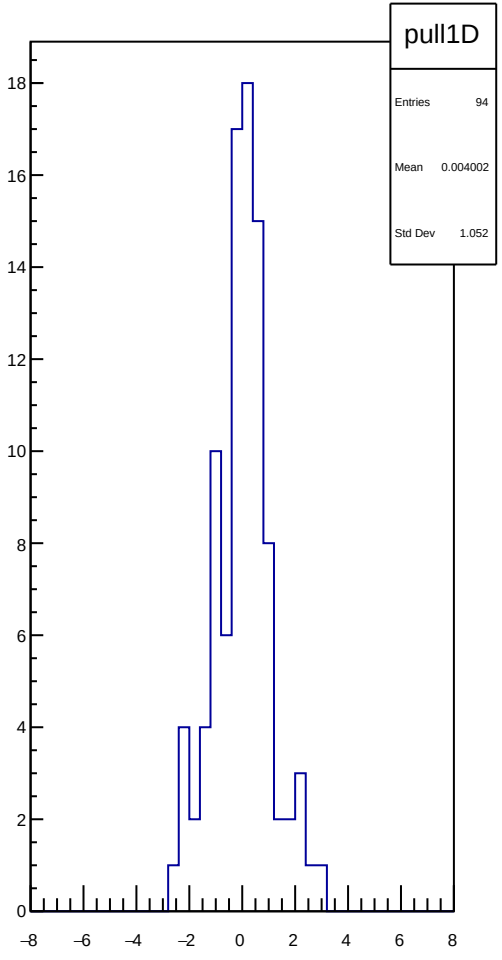

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.3 / 93
p0 2179 ± 1.64
2220
2200
2180
2160
2140
2120

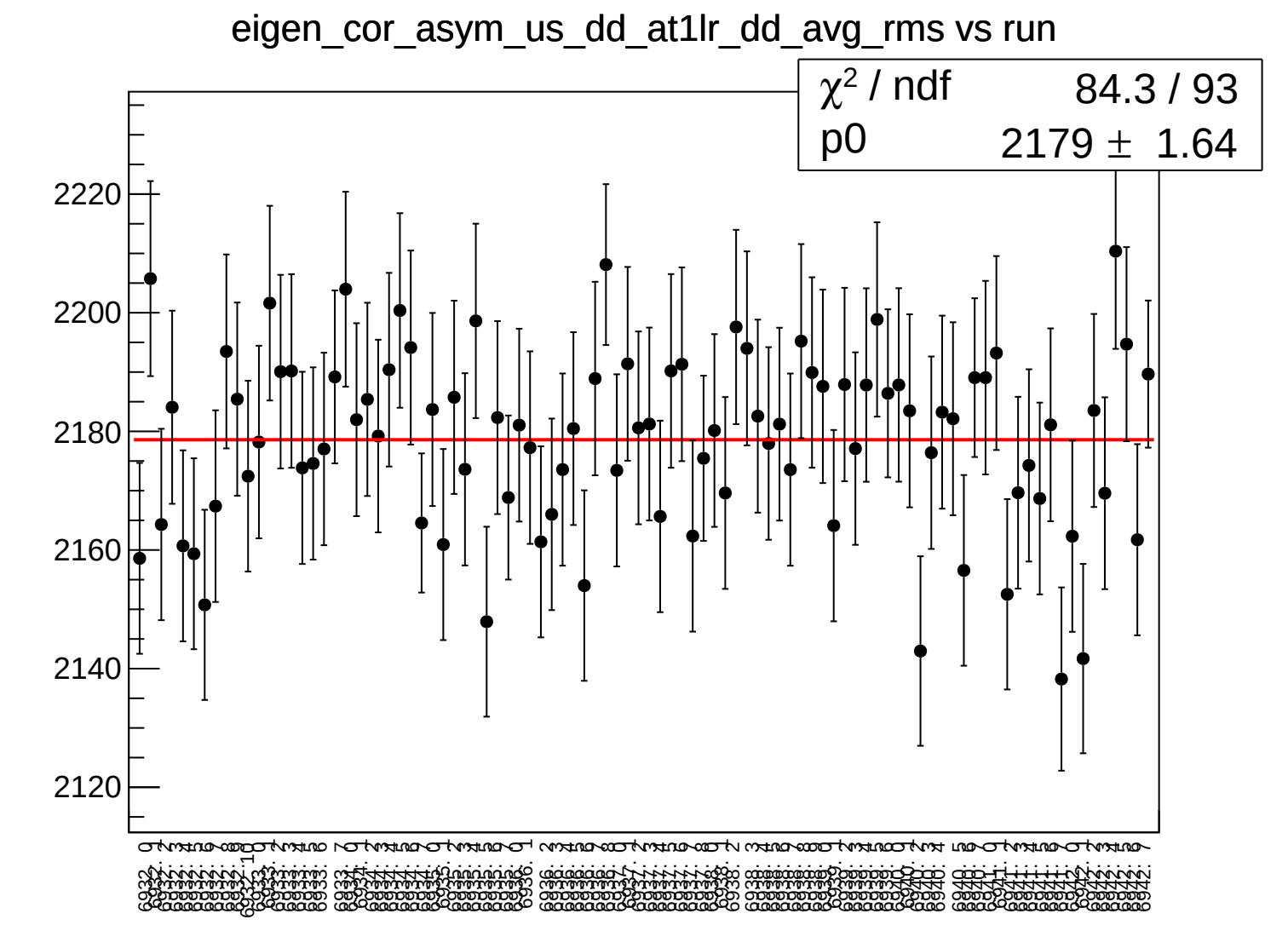

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 93.18 / 93
p0 219.6 ± 202.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 3296
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

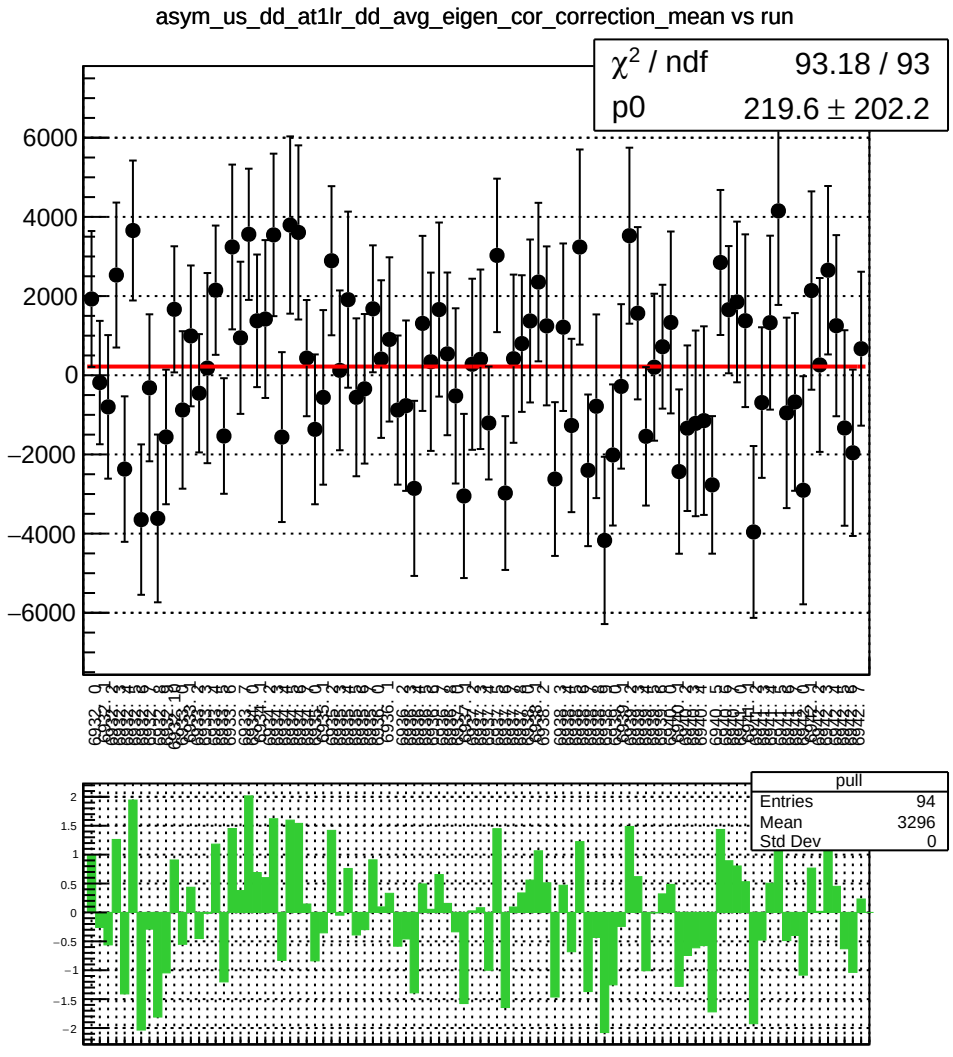

pull1D
Entries 94
Mean −0.0007458
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

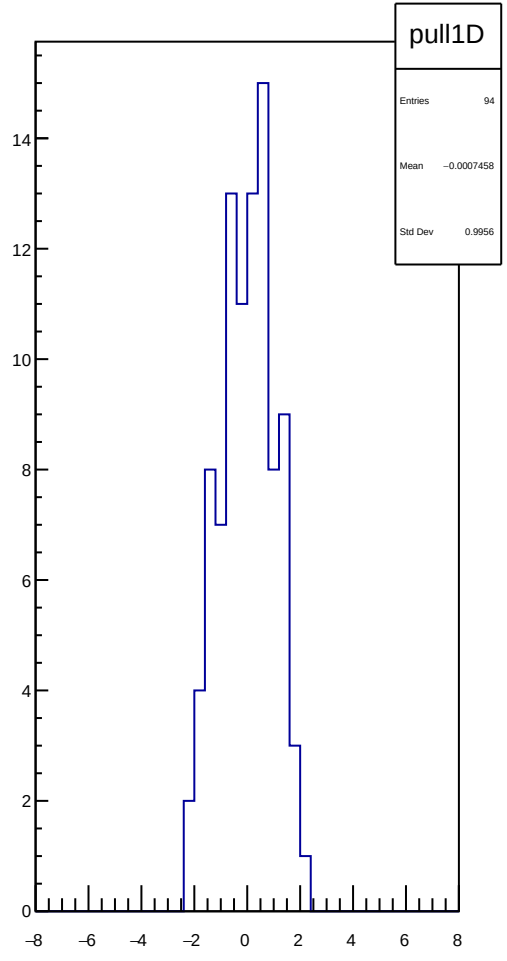

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 3.019e+04 / 93
p0 188.2 ± 0.143
280
260
240
220
200
180
160
140

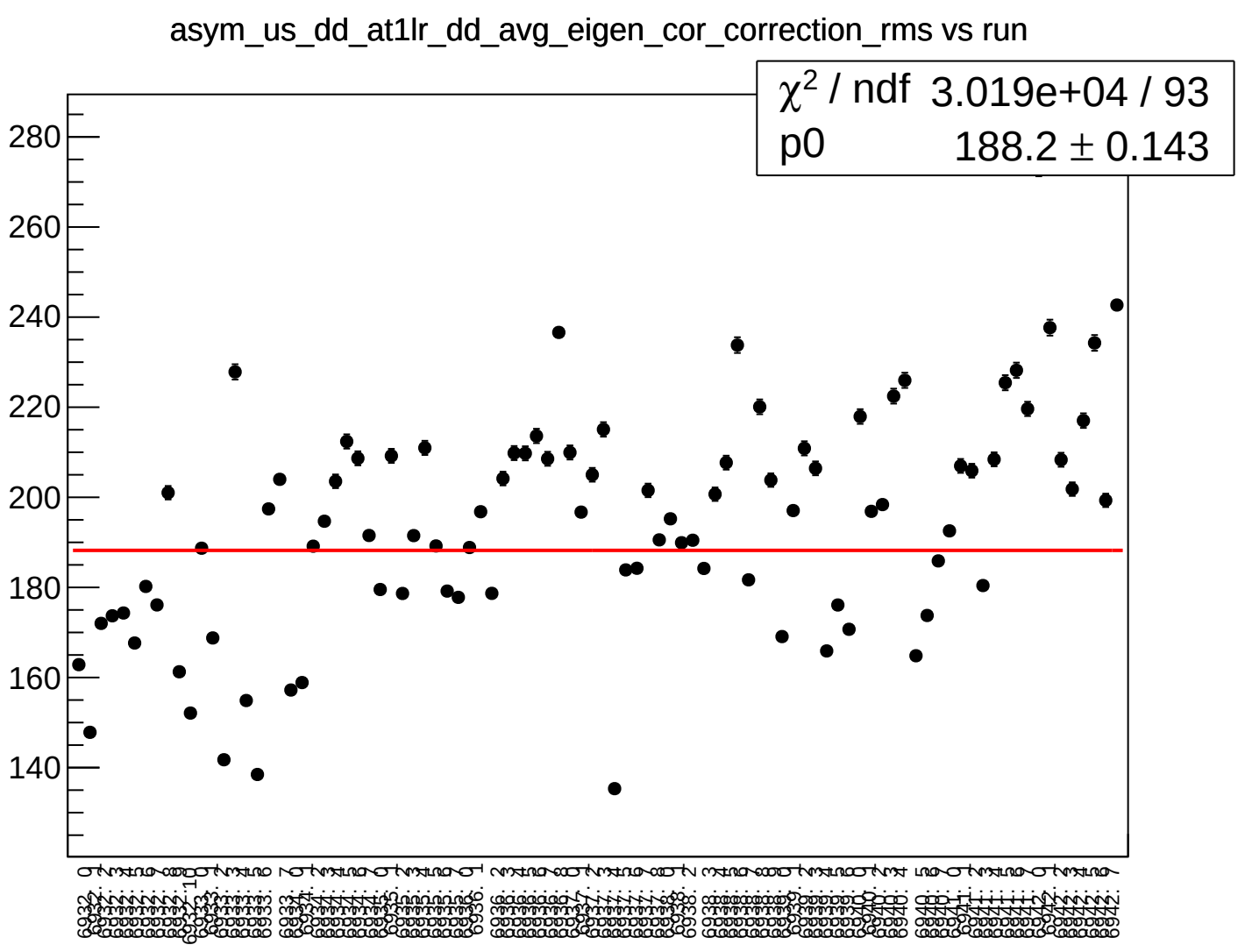

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.9 / 93
p0 3859 ± 2320
pull
Entries 94
Mean −625.2
Std Dev 0

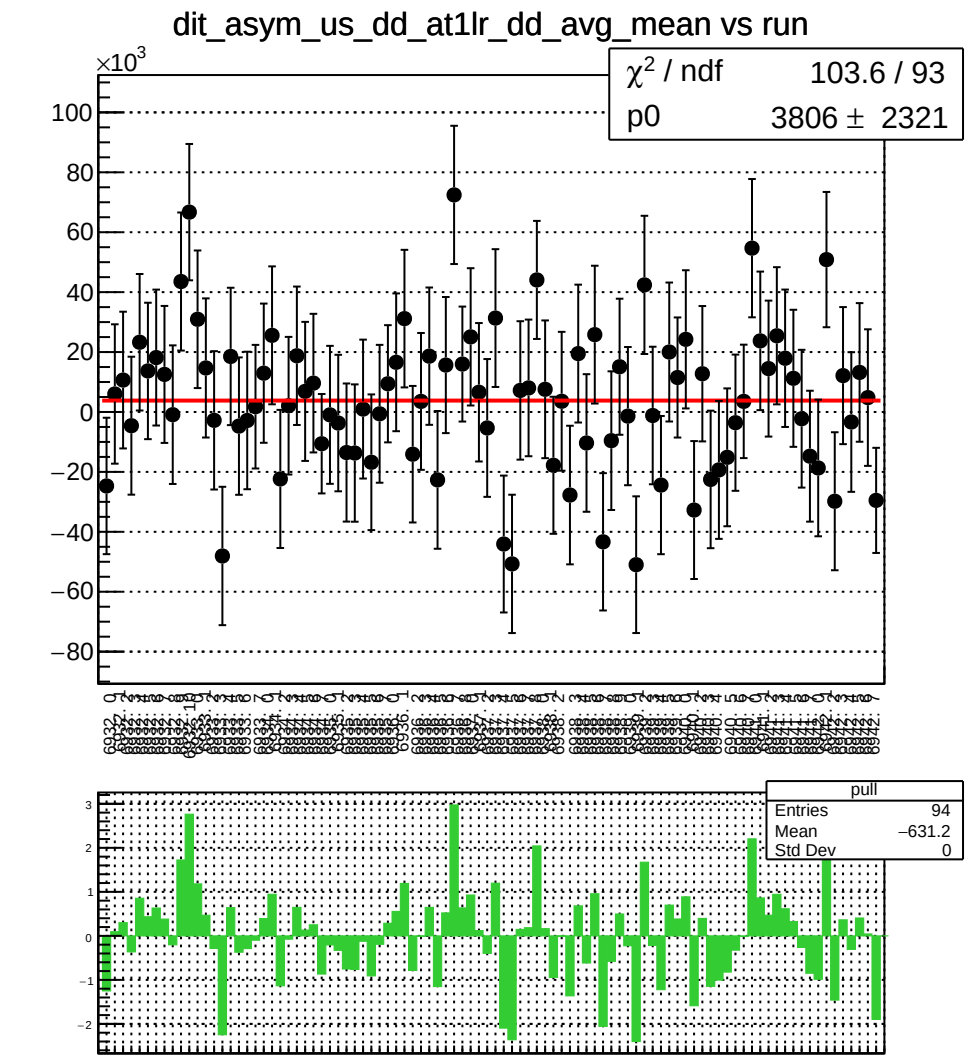

pull1D
Entries 94
Mean 0.004002
Std Dev 1.052

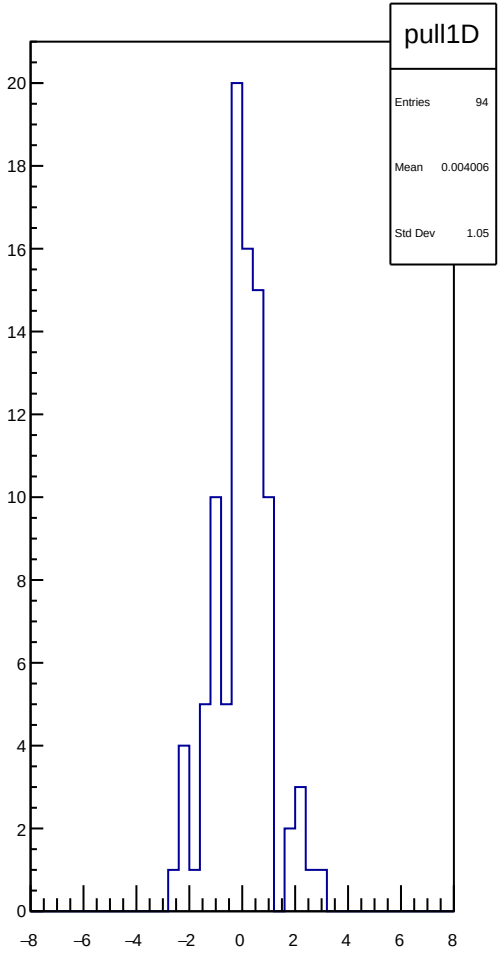

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.3 / 93
p0 2179 ± 1.64
2220
2200
2180
2160
2140
2120

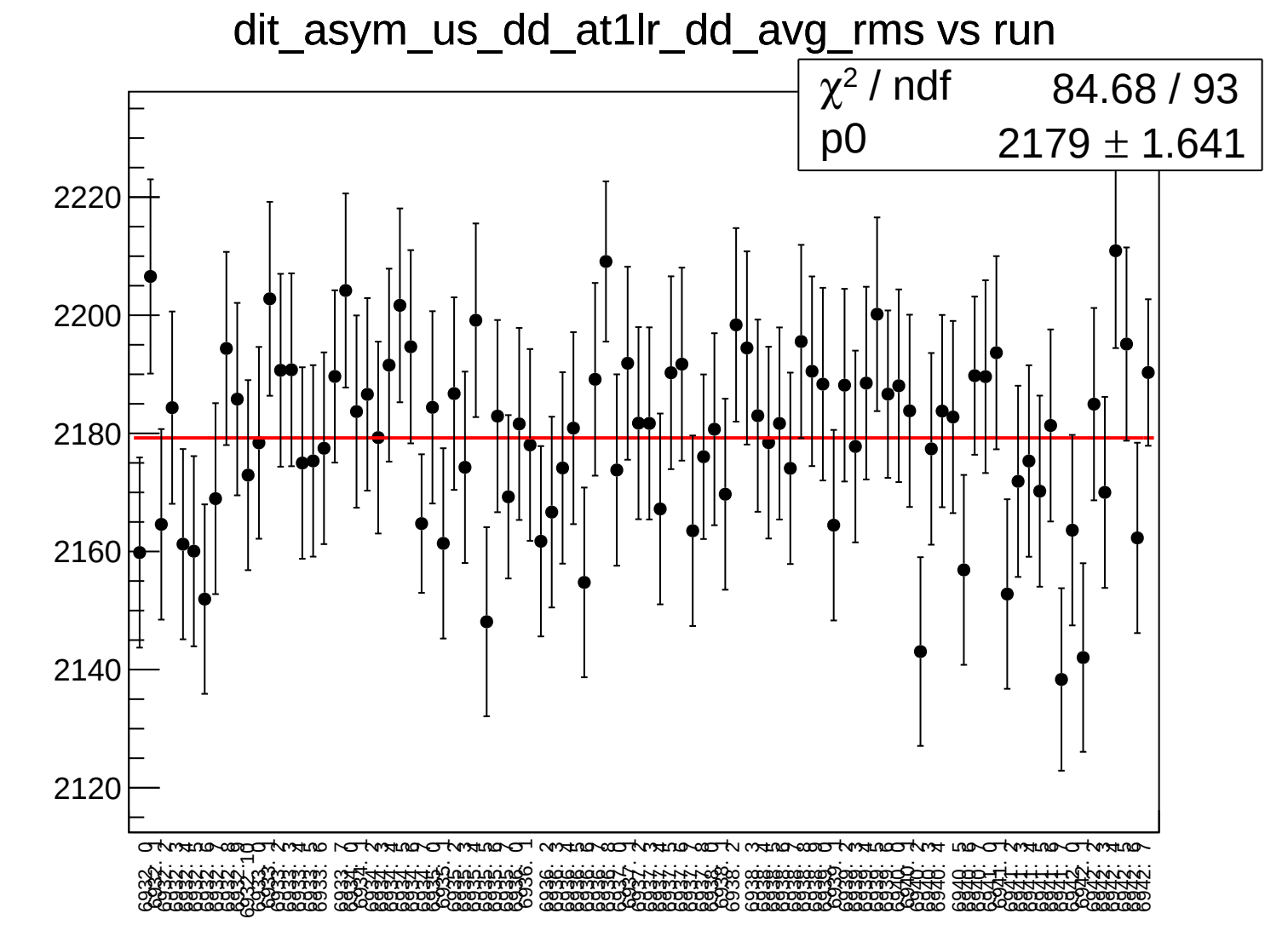

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 93.18 / 93
p0 219.6 ± 202.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 3296
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

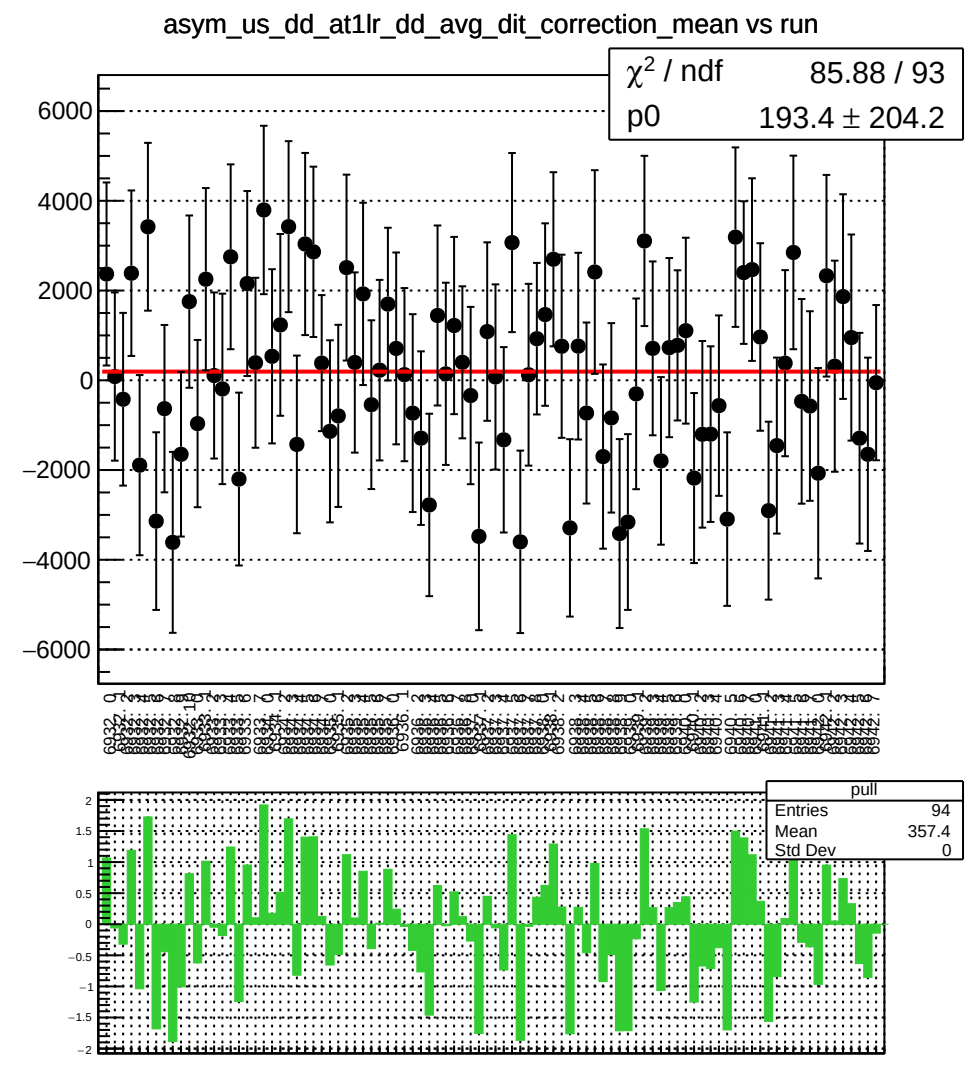

pull1D
Entries 94
Mean −0.0007458
Std Dev 0.9956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

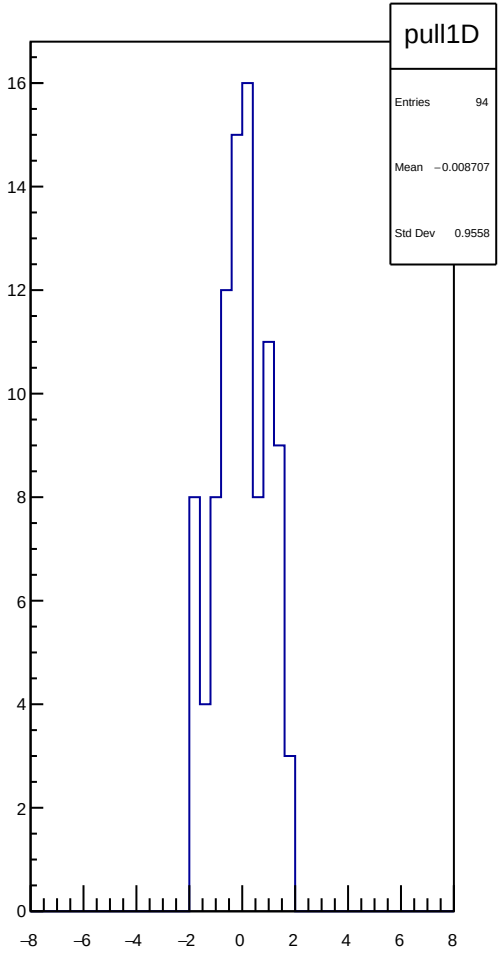

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.019e+04 / 93
p0 188.2 ± 0.143
280
260
240
220
200
180
160
140

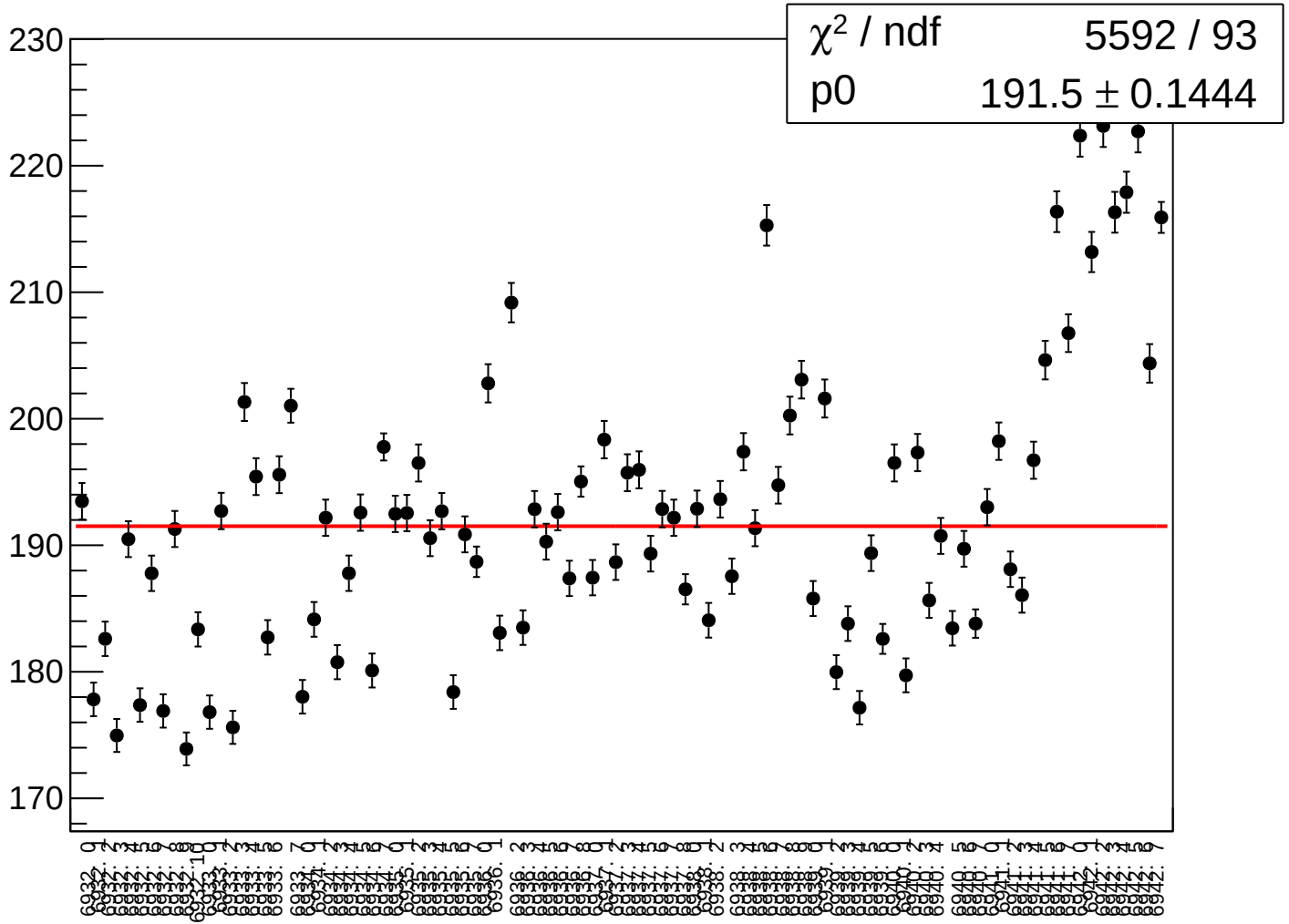

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 103.6 / 93
p0 3806 ± 2321
pull
Entries 94
Mean −631.2
Std Dev 0

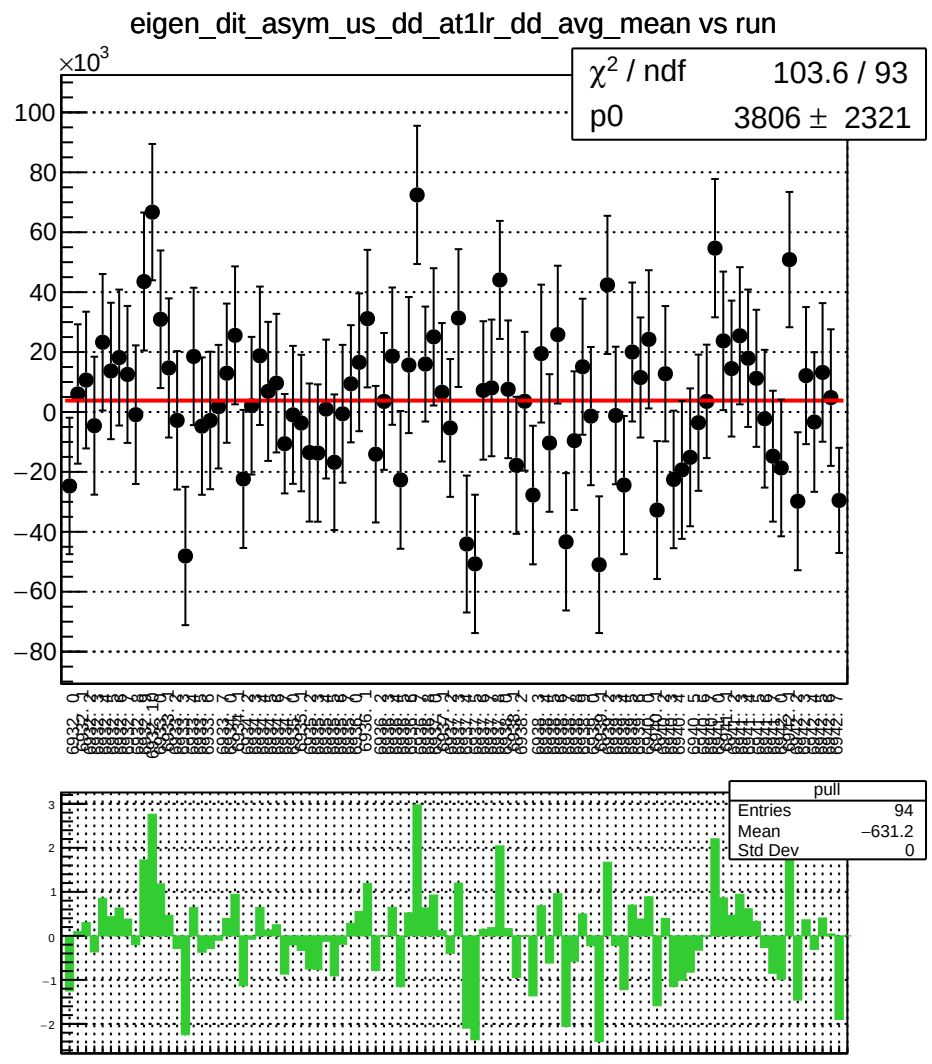

pull1D
Entries 94
Mean 0.004006
Std Dev 1.05

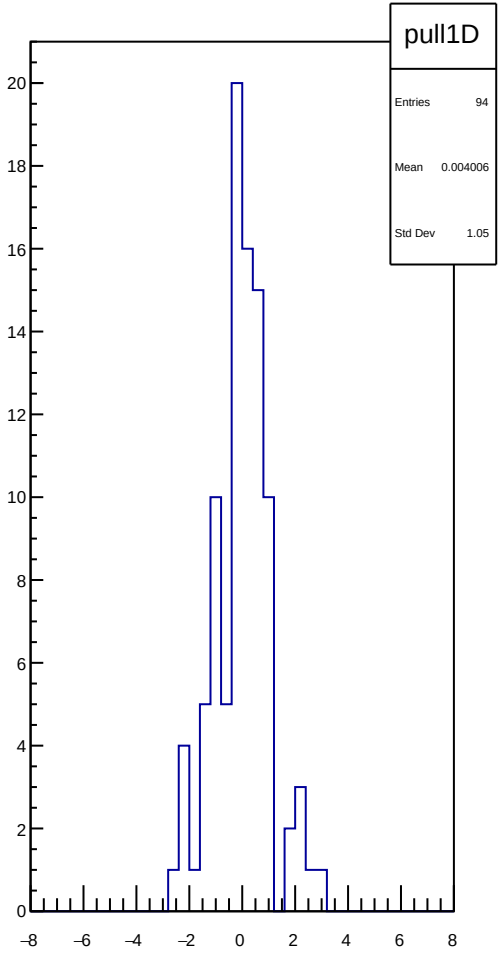

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.68 / 93
p0 2179 ± 1.641
2220
2200
2180
2160
2140
2120

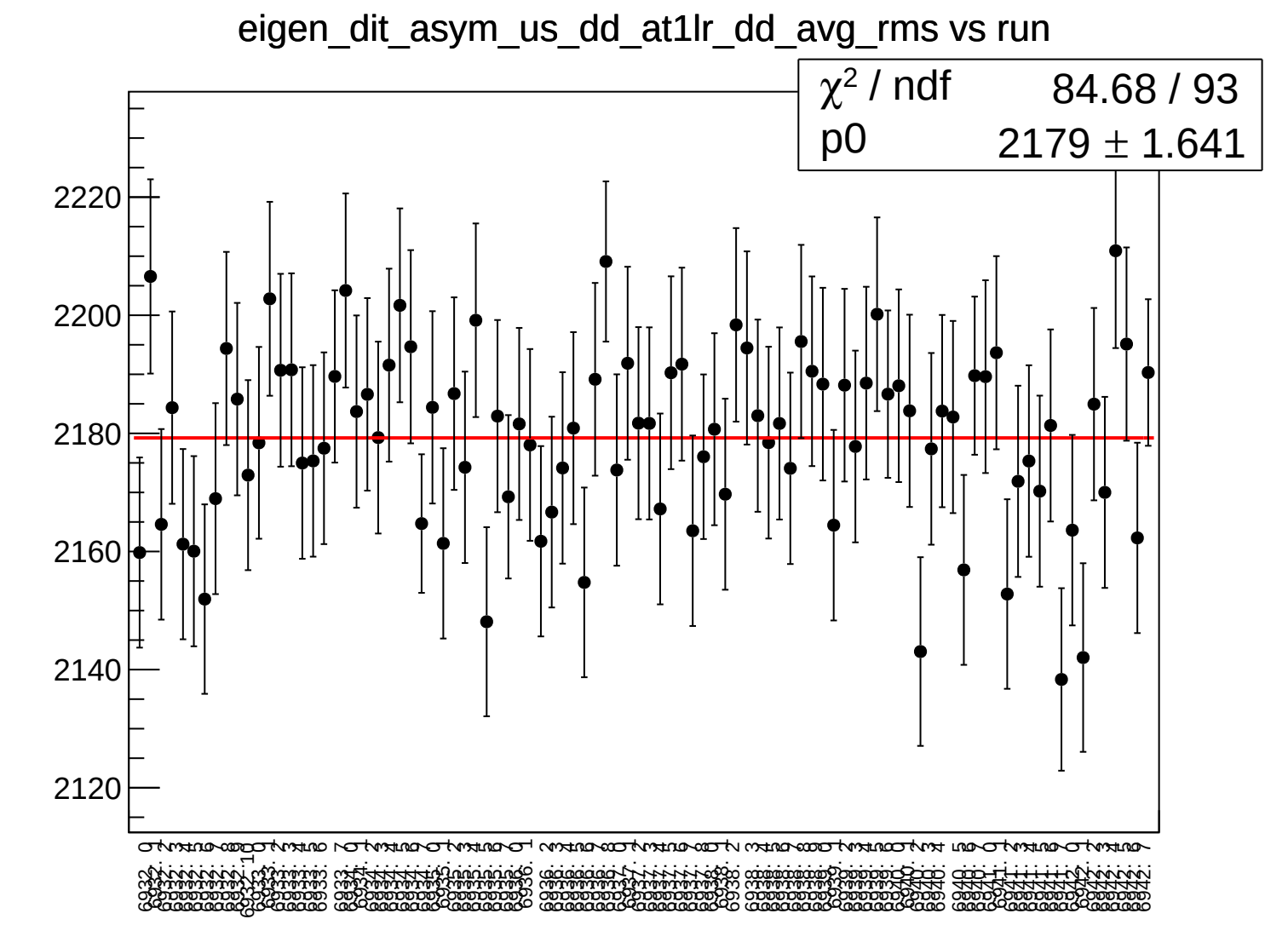

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 85.88 / 93
p0 193.4 ± 204.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 357.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

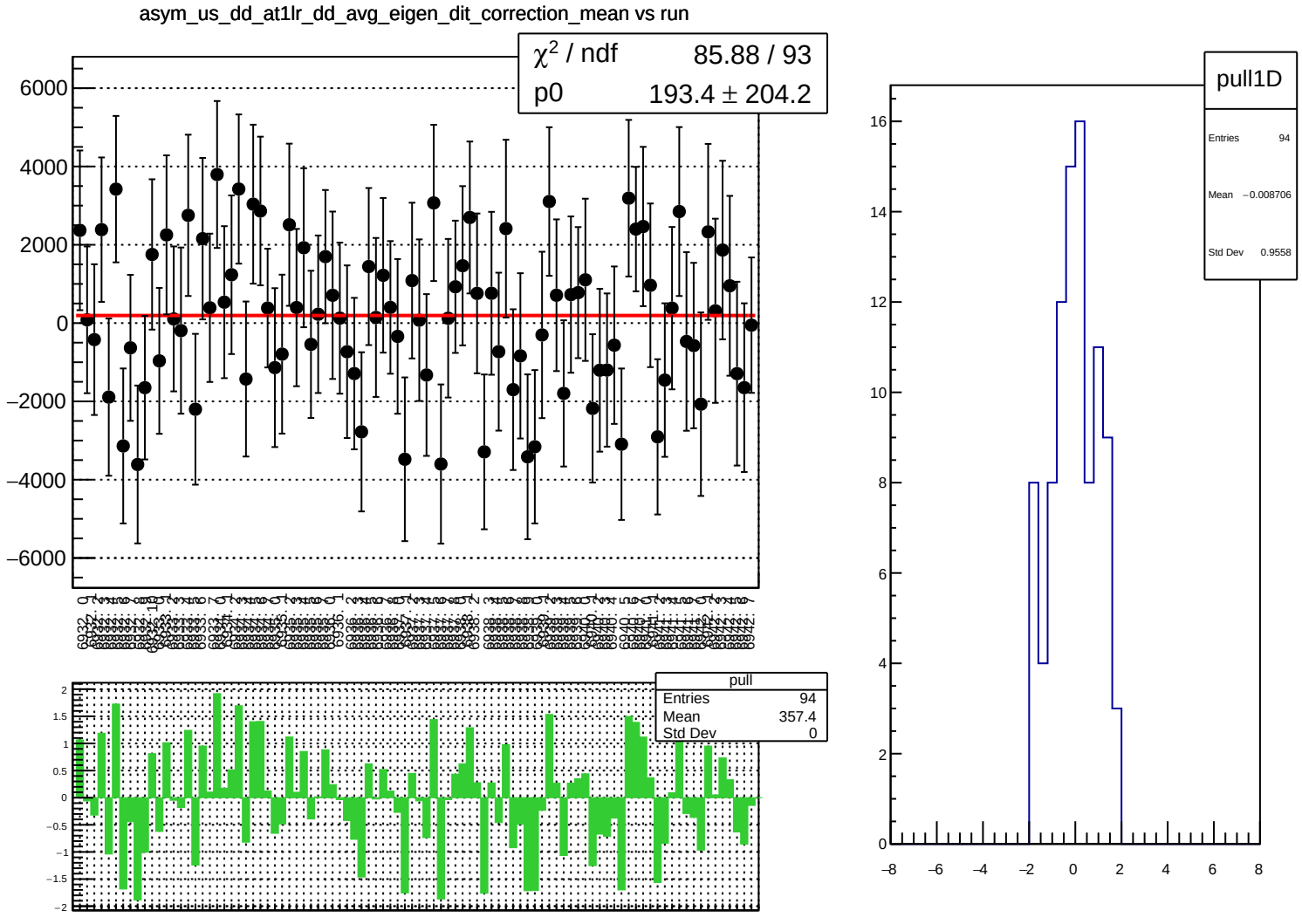

pull1D
Entries 94
Mean −0.008707
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

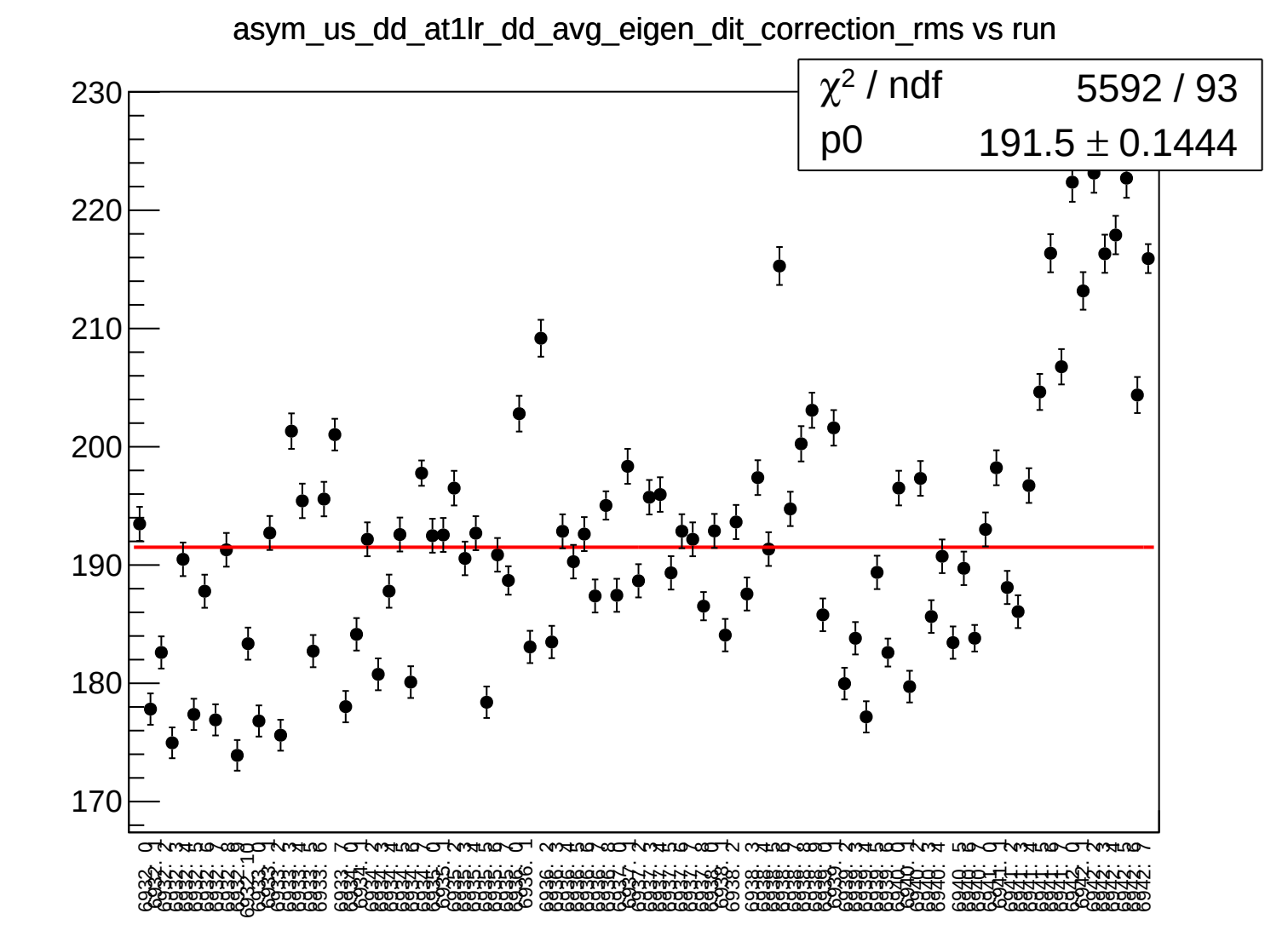

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 5592 / 93
p0 191.5 ± 0.1444
230
220
210
200
190
180
170

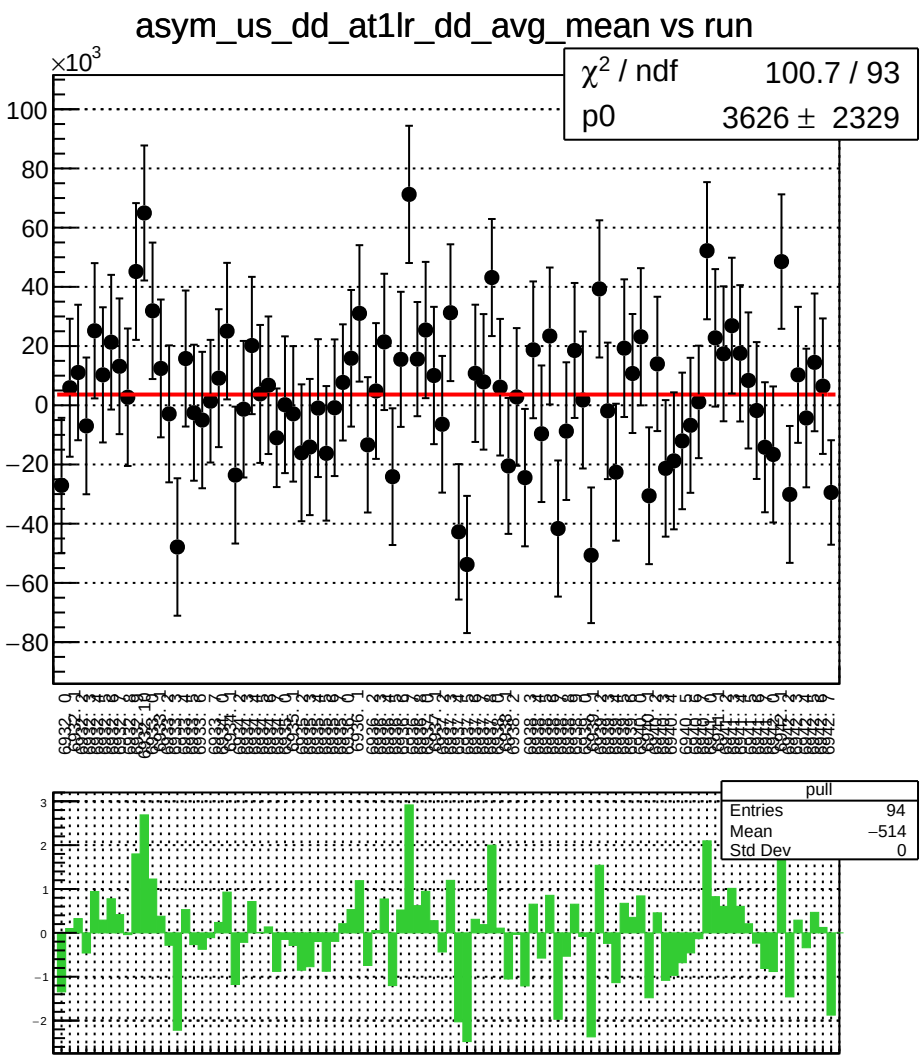

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 103.6 / 93
p0 3806 ± 2321
pull
Entries 94
Mean −631.2
Std Dev 0

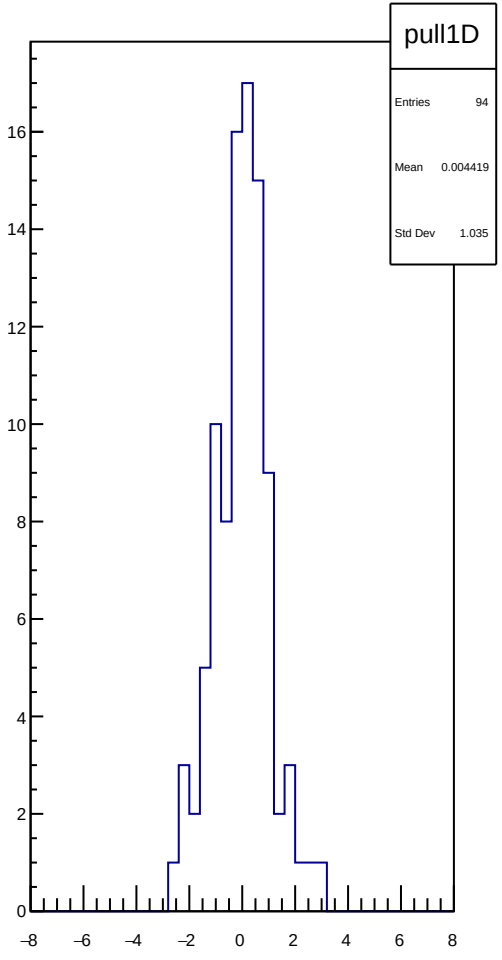

pull1D
Entries 94
Mean 0.004006
Std Dev 1.05

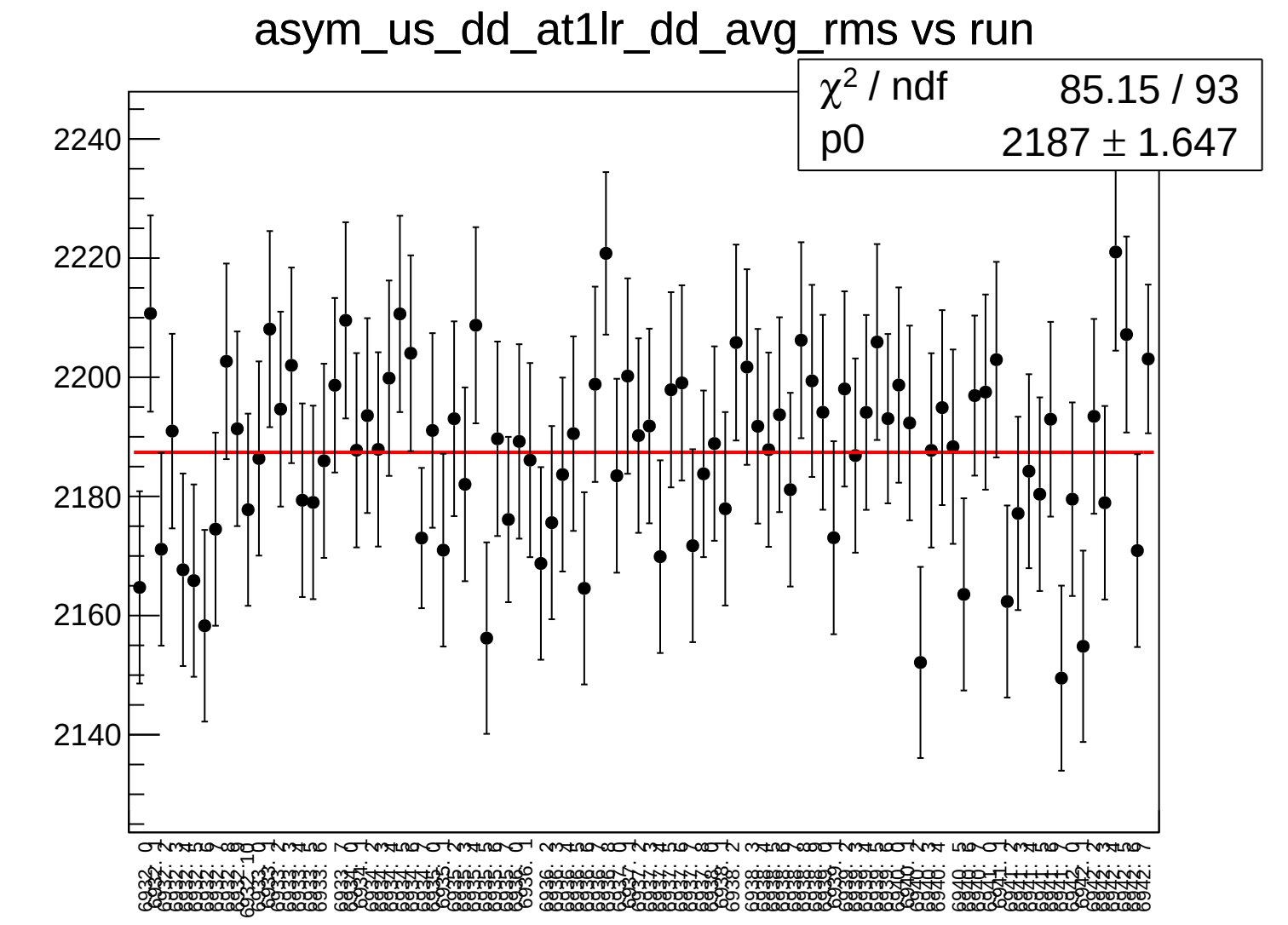

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 84.68 / 93
p0 2179 ± 1.641
2220
2200
2180
2160
2140
2120

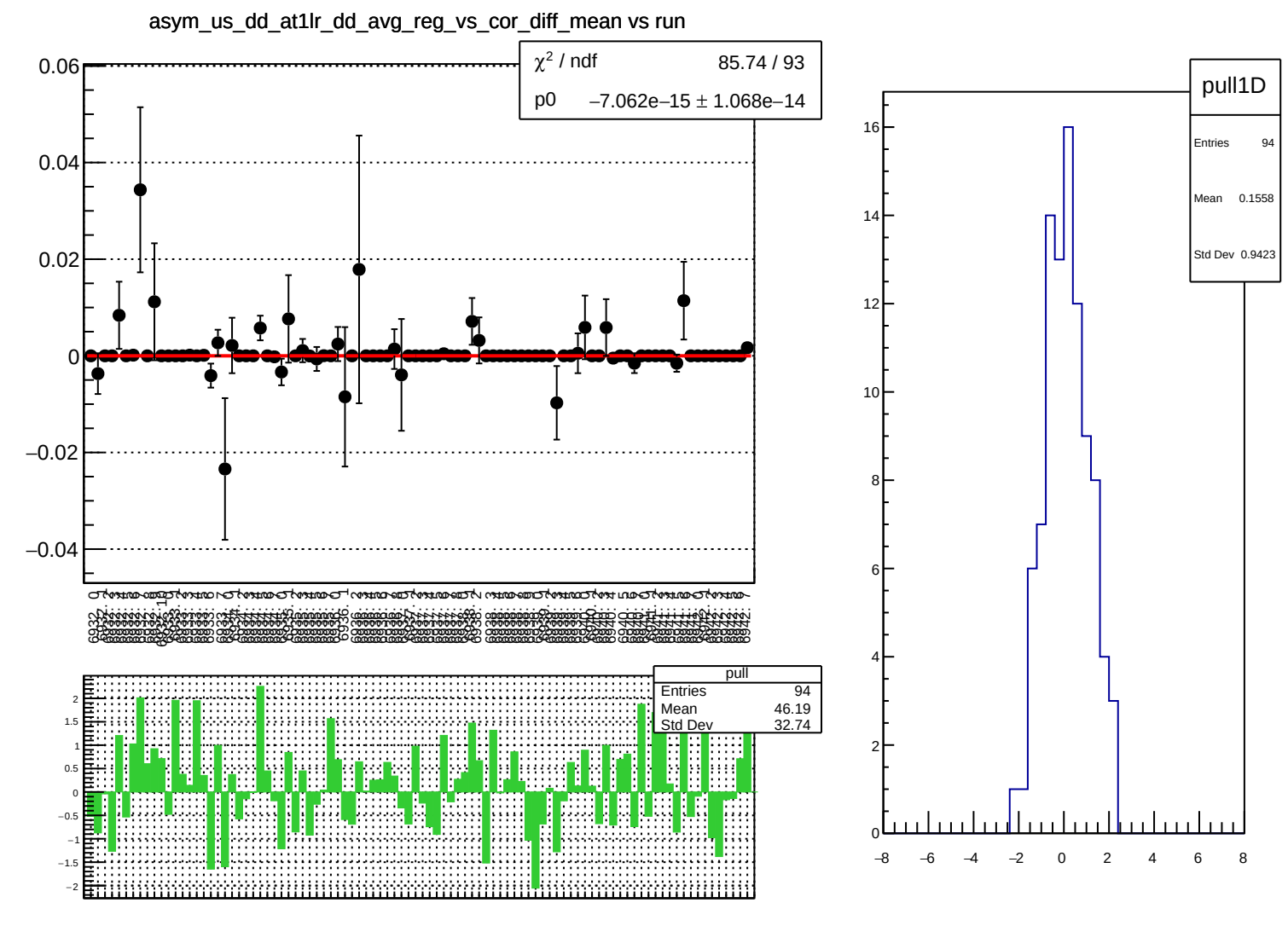

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.88 / 93
p0 193.4 ± 204.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 357.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008706
Std Dev 0.9558
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

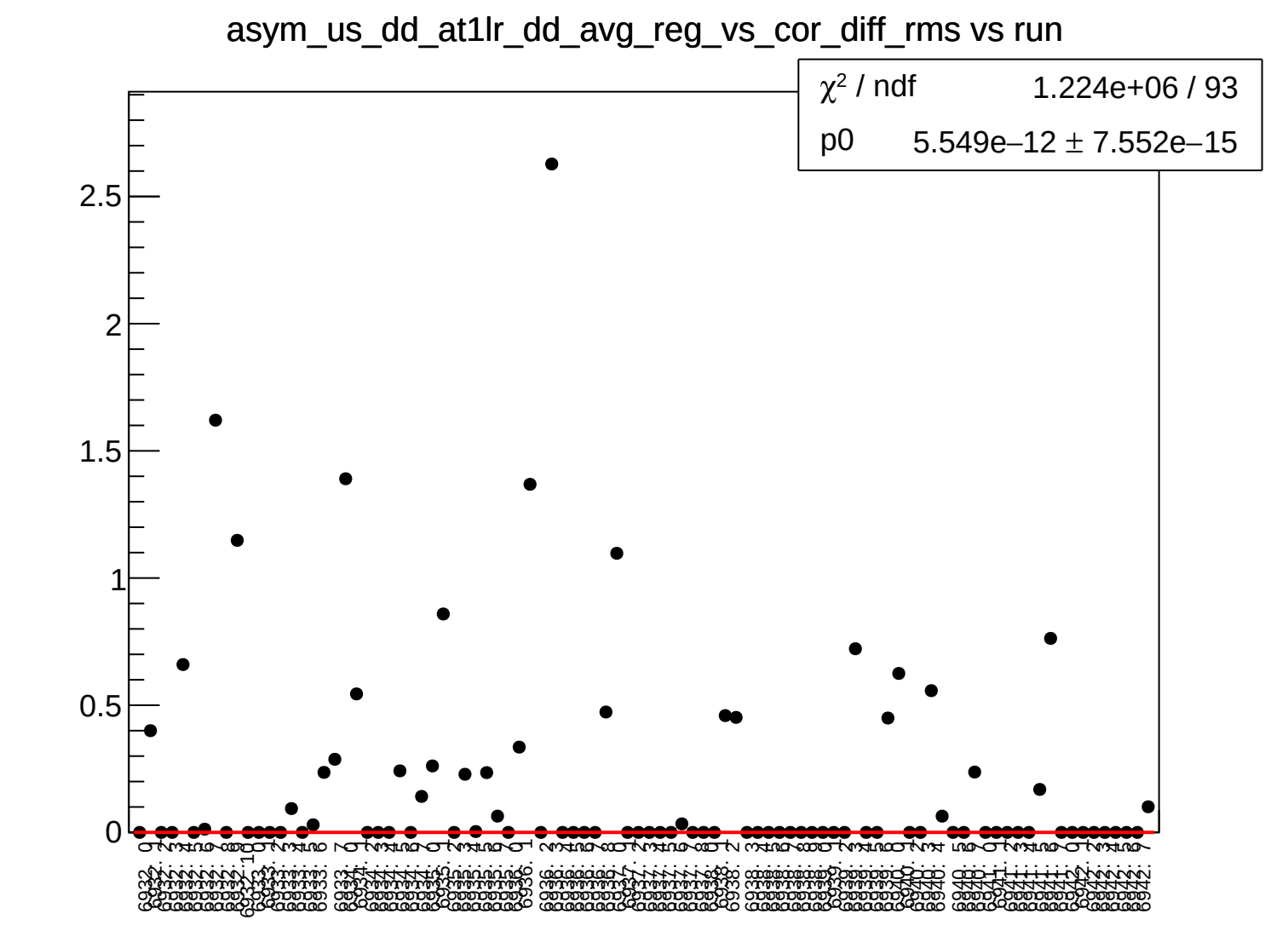

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5592 / 93
p0 191.5 ± 0.1444
230
220
210
200
190
180
170

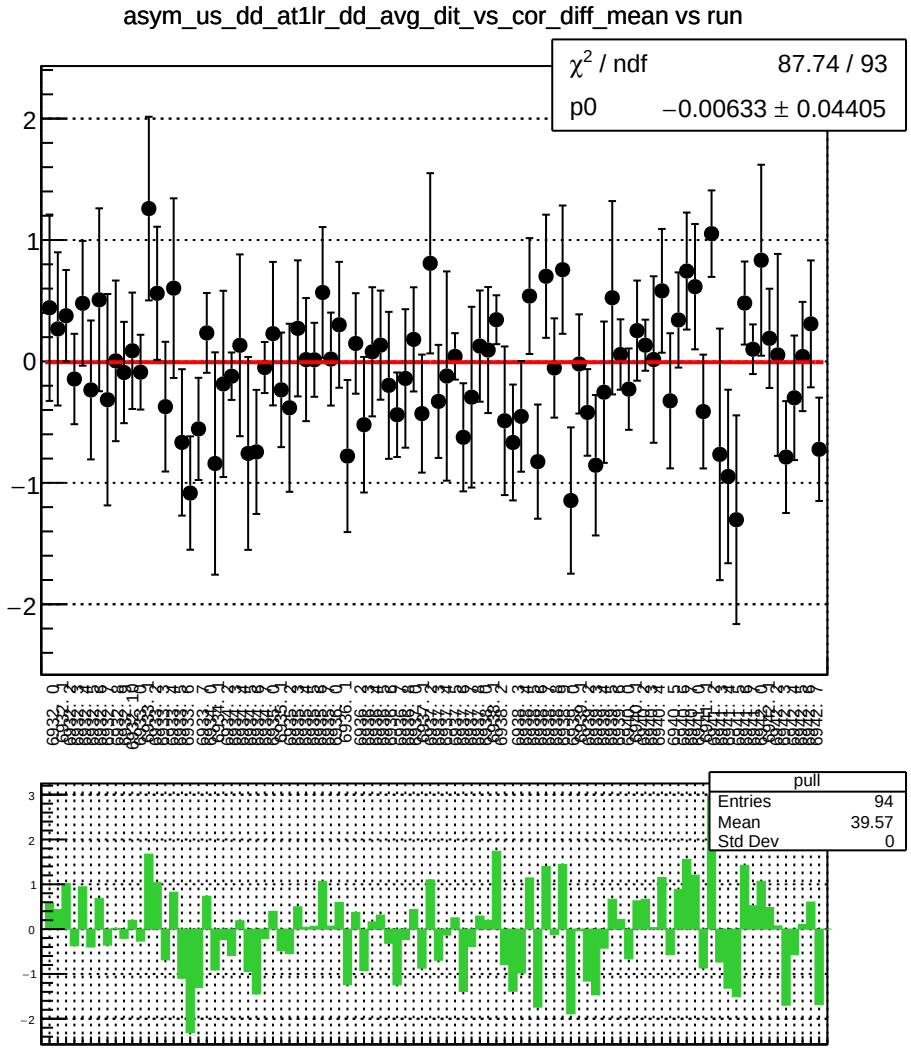

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 100.7 / 93
p0 3626 ± 2329
pull
Entries 94
Mean −514
Std Dev 0

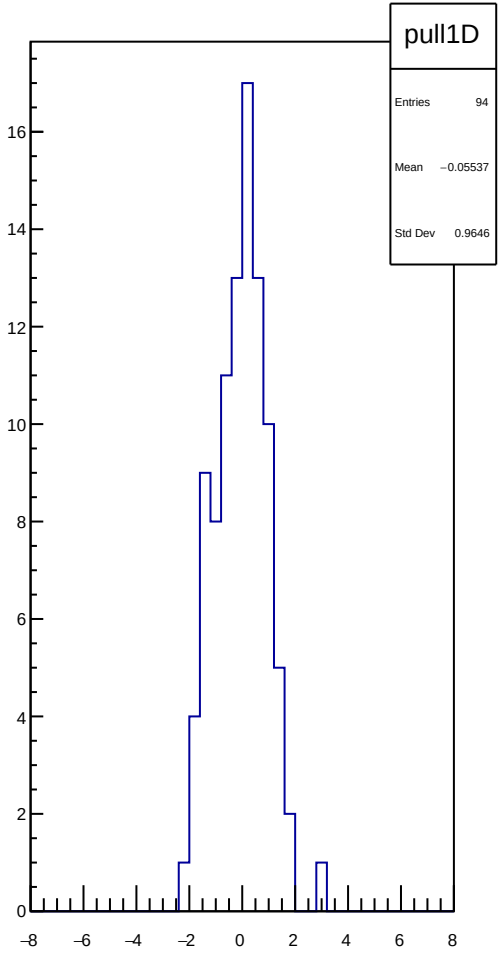

pull1D
Entries 94
Mean 0.004419
Std Dev 1.035

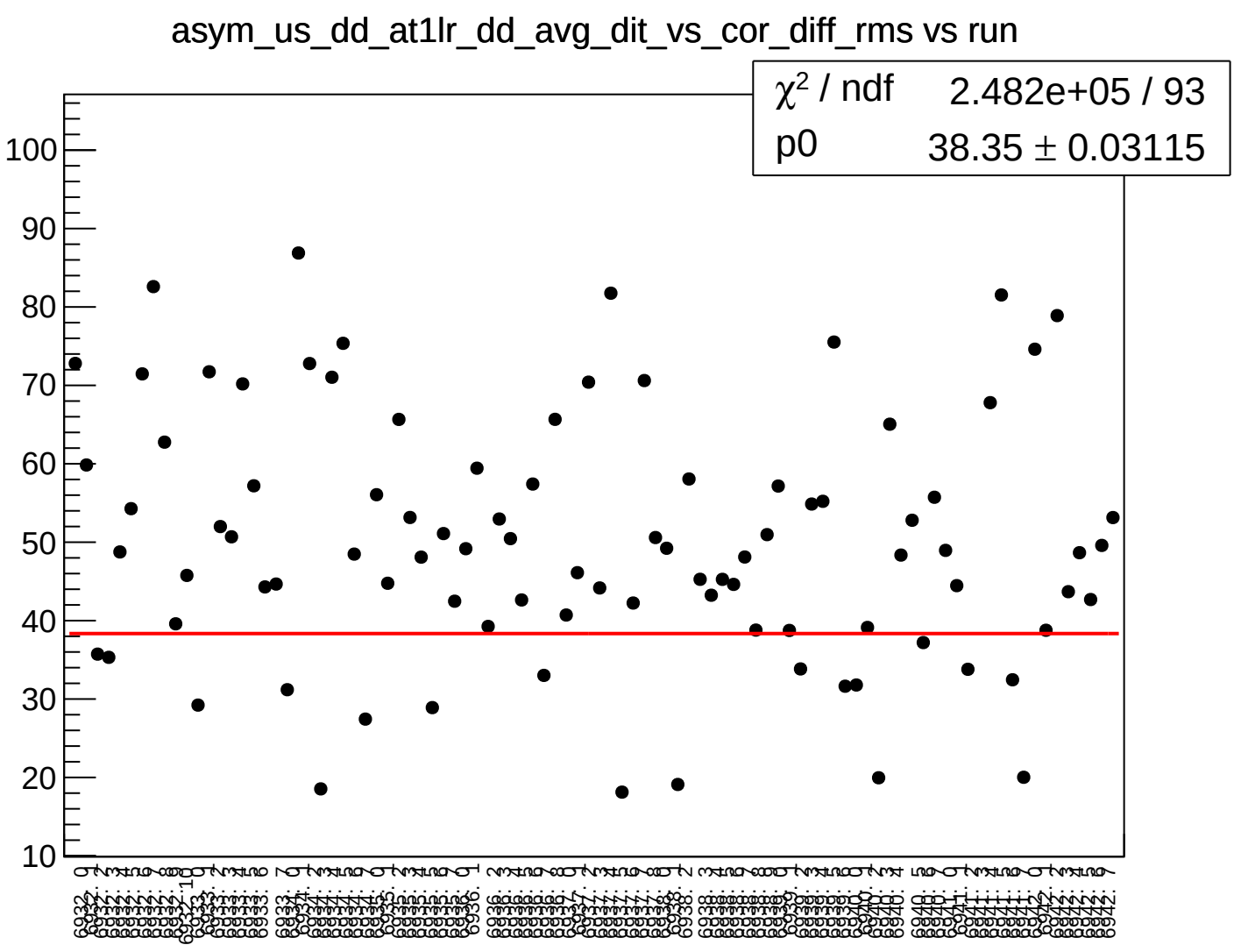

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 85.15 / 93
p0 2187 ± 1.647
2240
2220
2200
2180
2160
2140

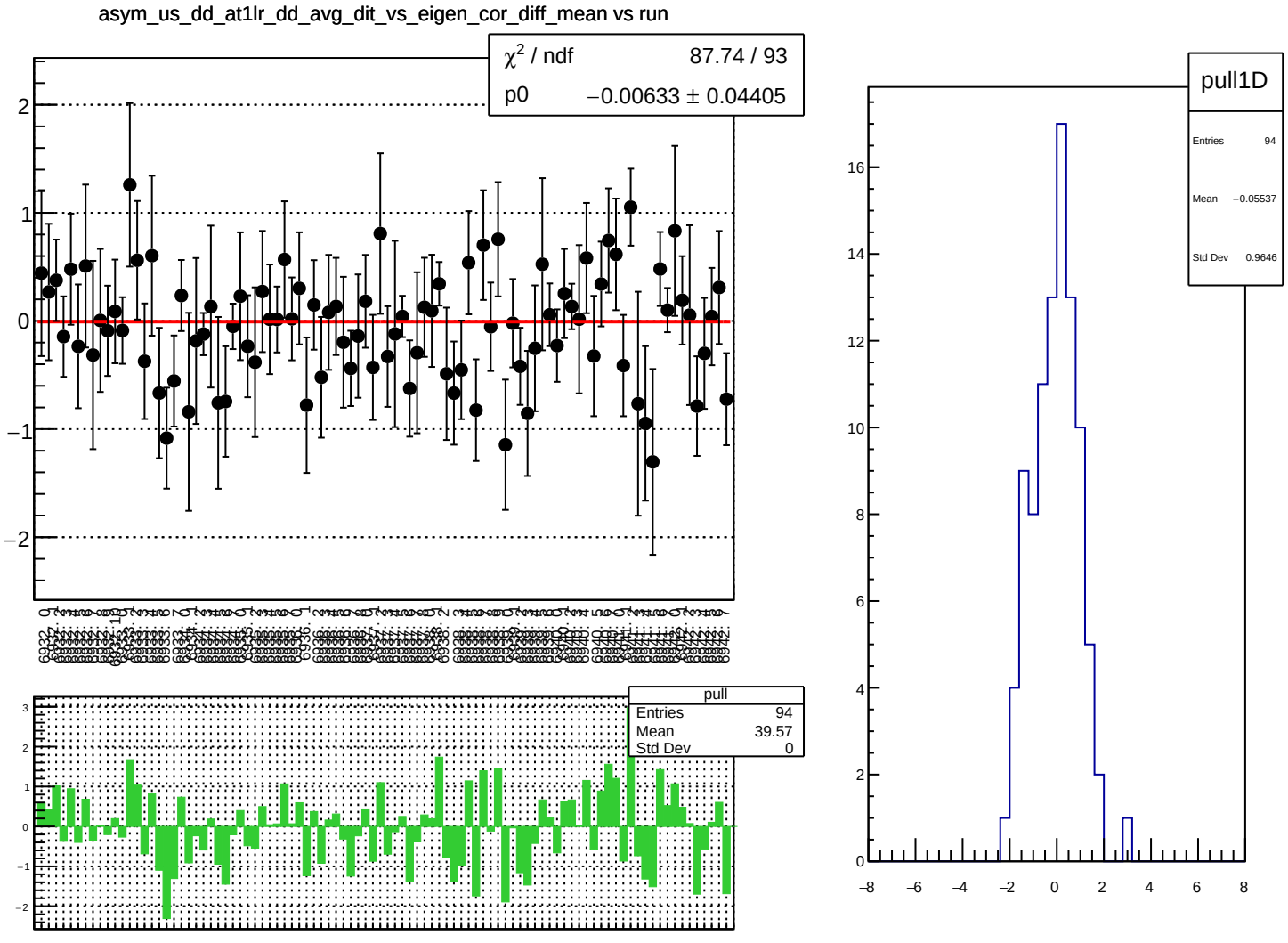

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.74 / 93
p0 −7.062e−15 ± 1.068e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 46.19
Std Dev 32.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.1558
Std Dev 0.9423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

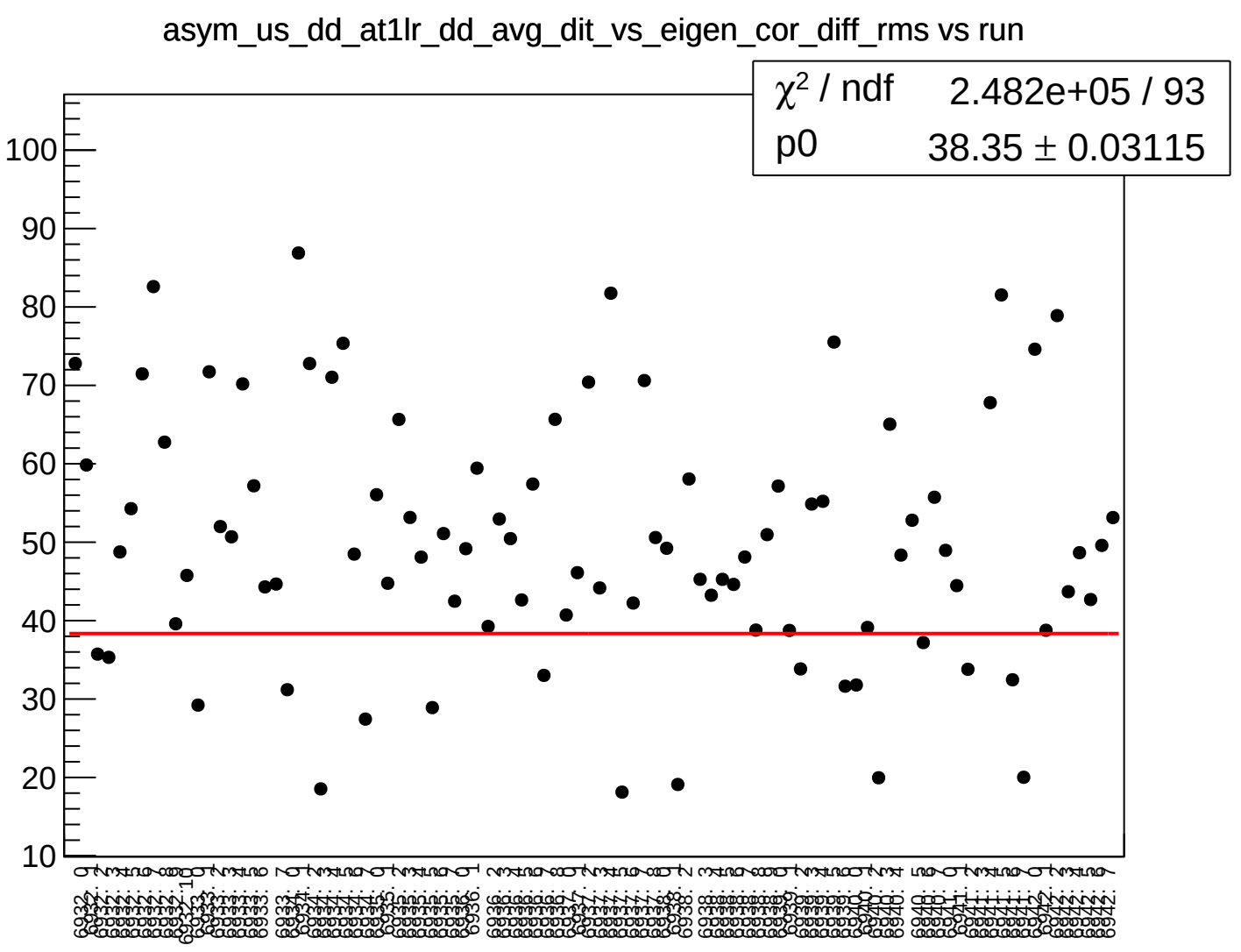

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 93
p0 5.549e−12 ± 7.552e−15
2.5
2
1.5
1
0.5
0

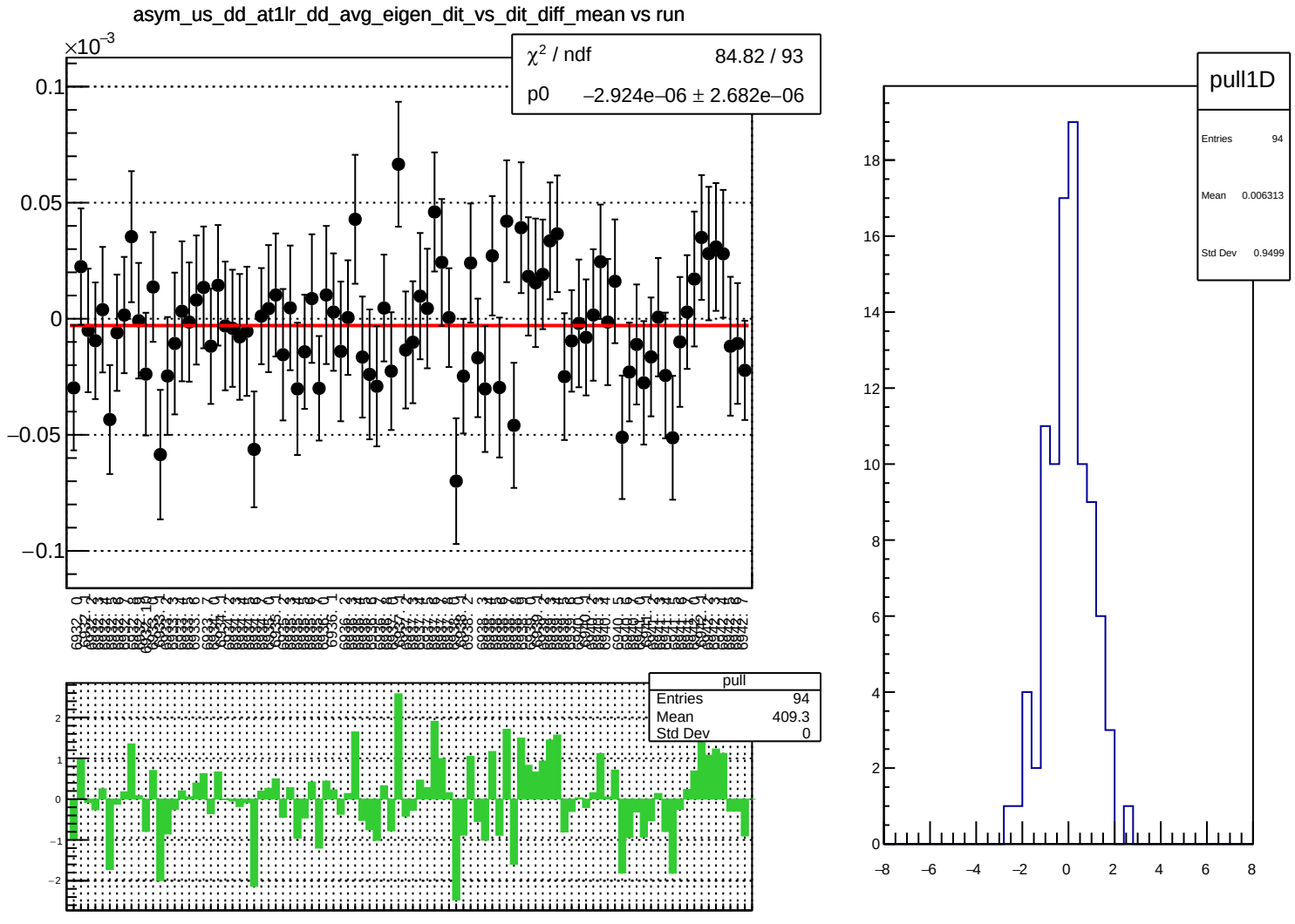

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.74 / 93
p0 −0.00633 ± 0.04405
pull
Entries 94
Mean 39.57
Std Dev 0

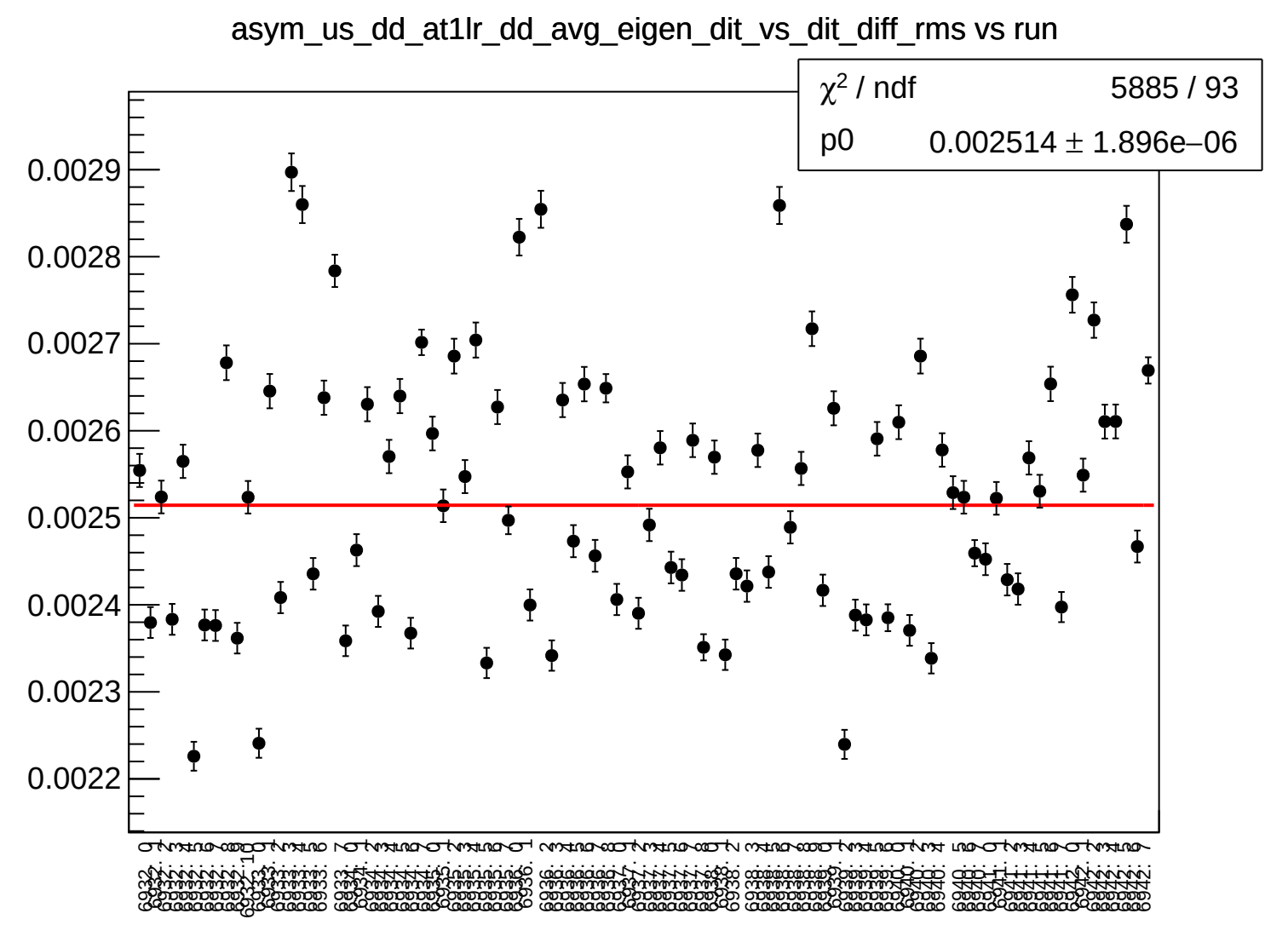

pull1D
Entries 94
Mean −0.05537
Std Dev 0.9646

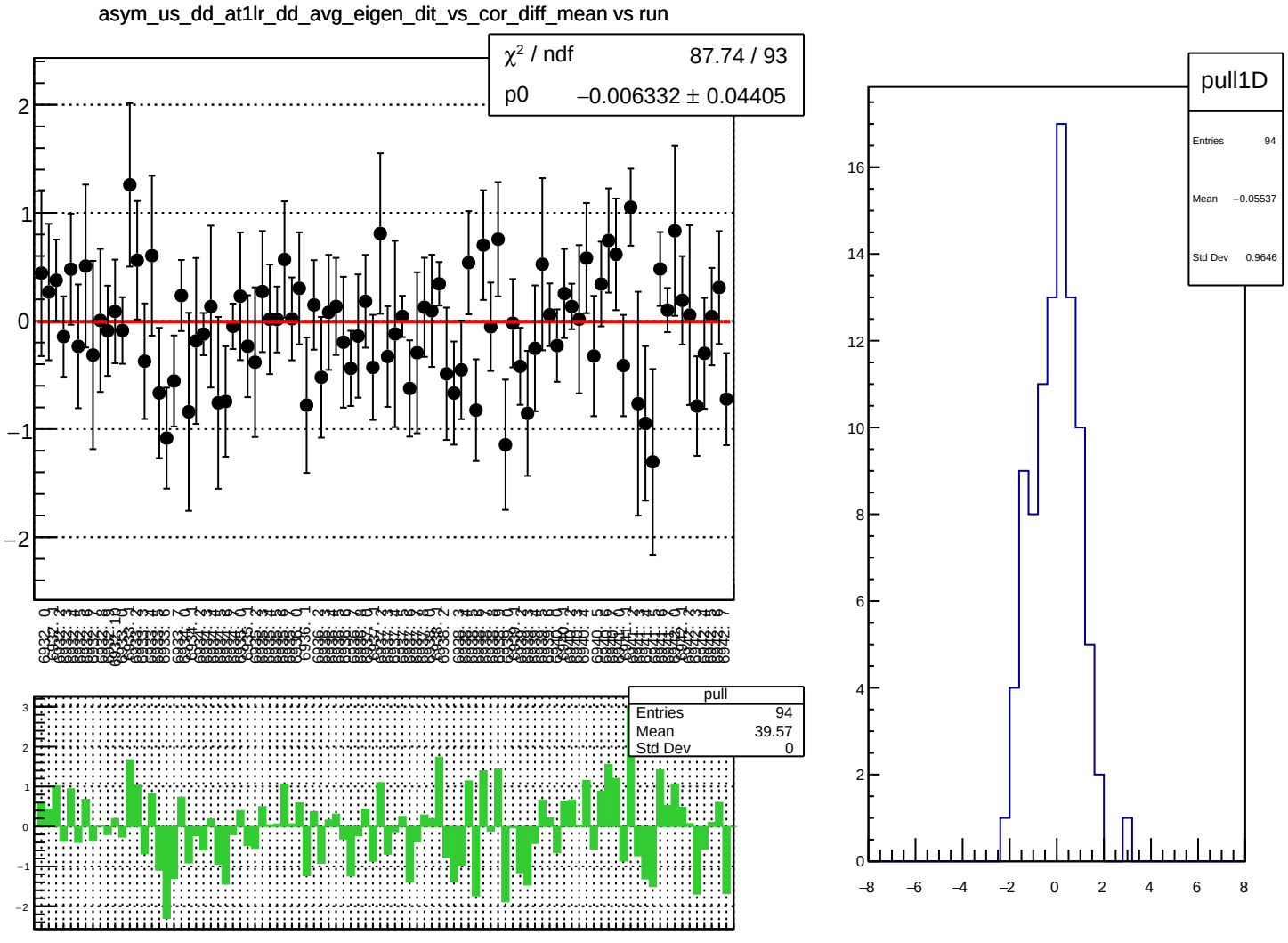

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.482e+05 / 93
p0 38.35 ± 0.03115
100
90
80
70
60
50
40
30
20
10

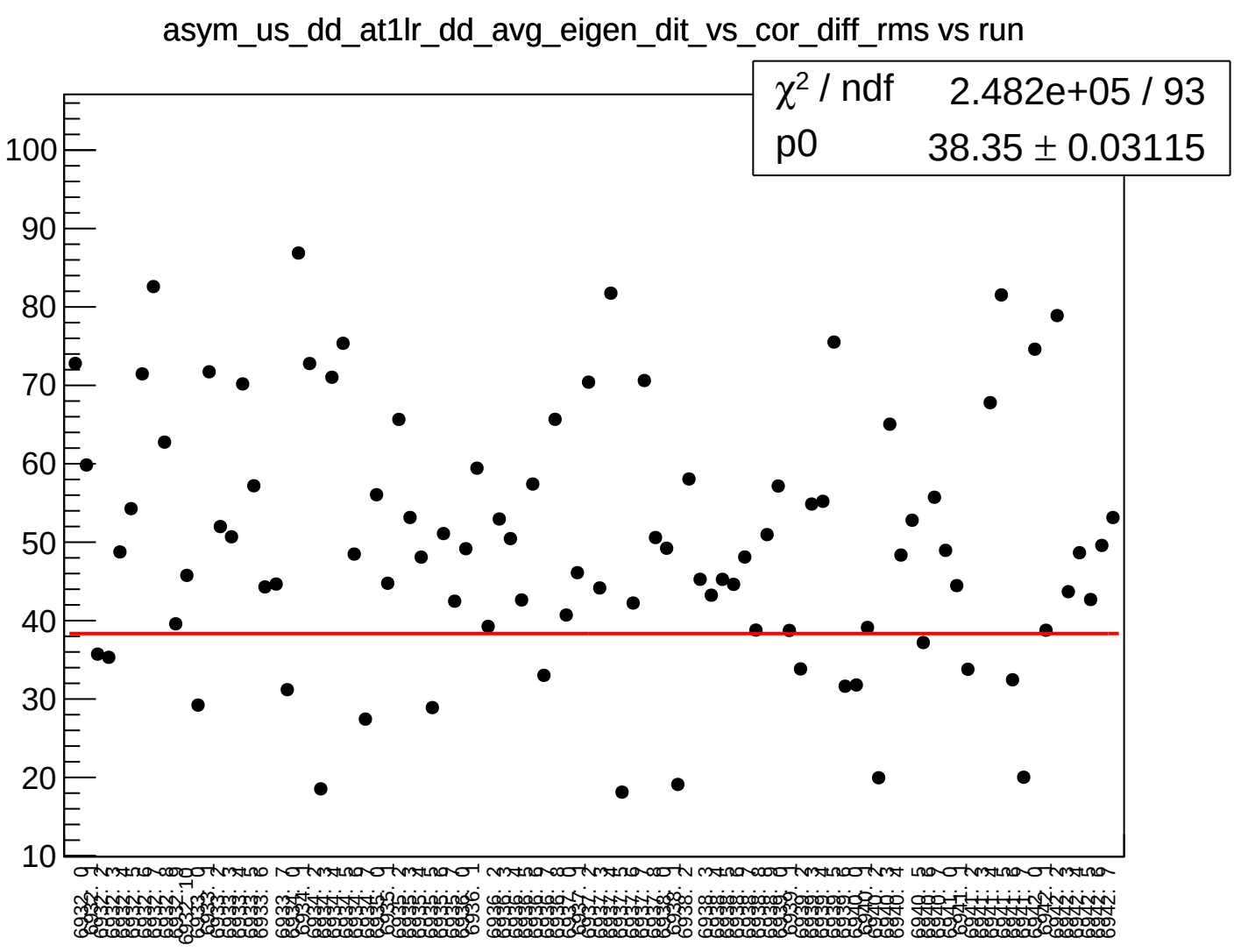

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.74 / 93
p0 −0.00633 ± 0.04405
pull
Entries 94
Mean 39.57
Std Dev 0
pull1D
Entries 94
Mean −0.05537
Std Dev 0.9646

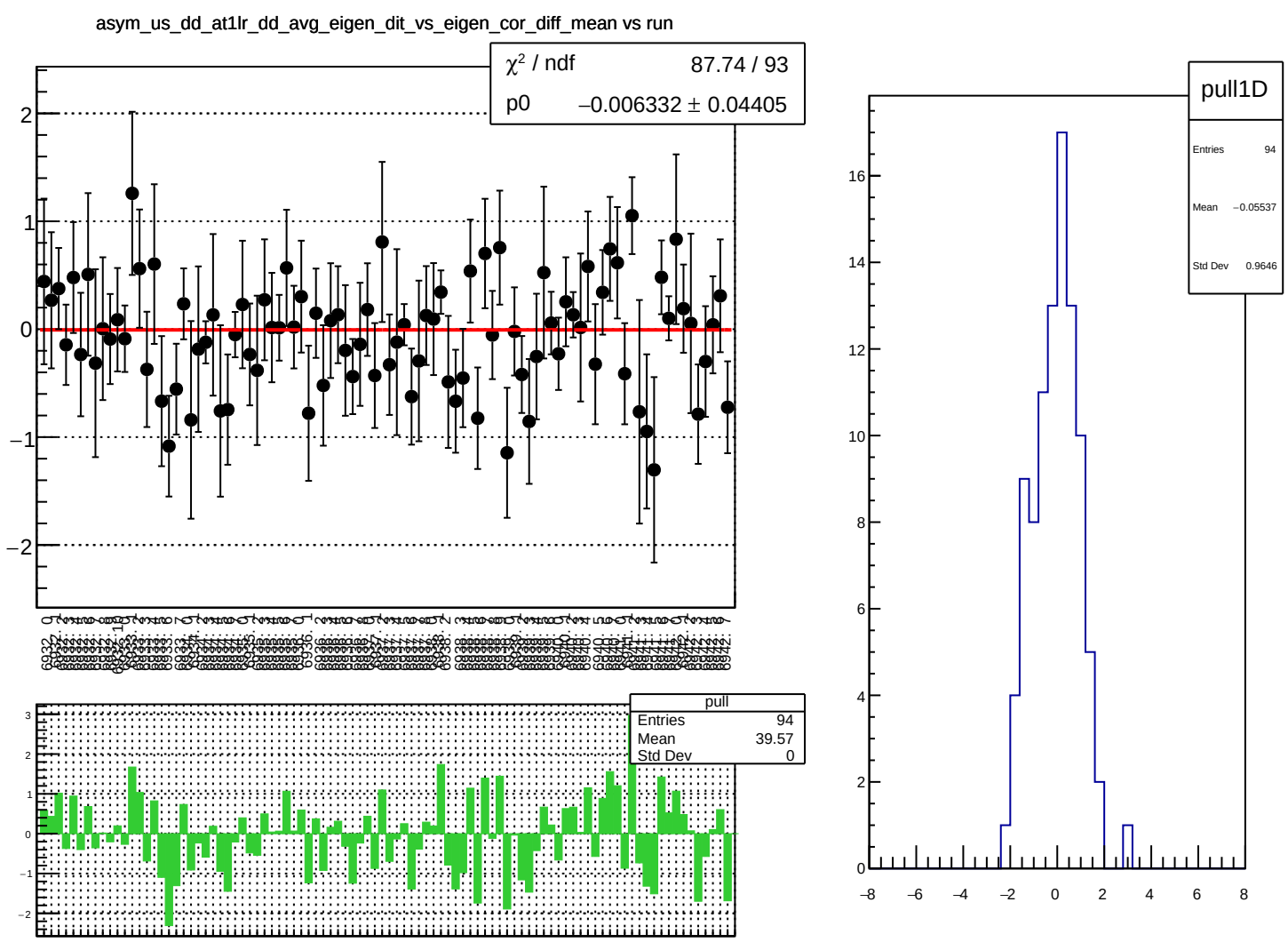

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.482e+05 / 93
p0 38.35 ± 0.03115
100
90
80
70
60
50
40
30
20
10

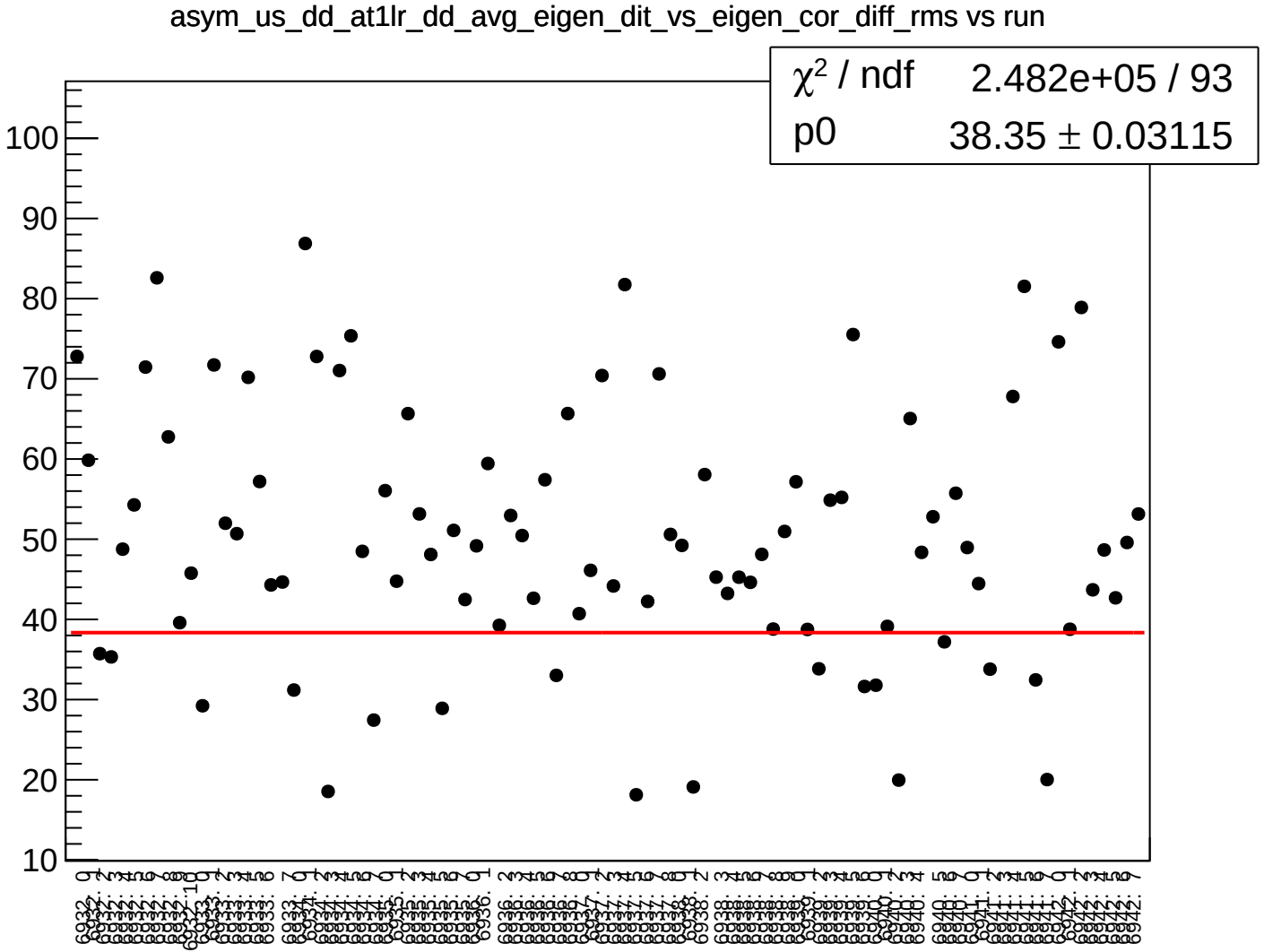

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.82 / 93
p0 −2.924e−06 ± 2.682e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 409.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006313
Std Dev 0.9499
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

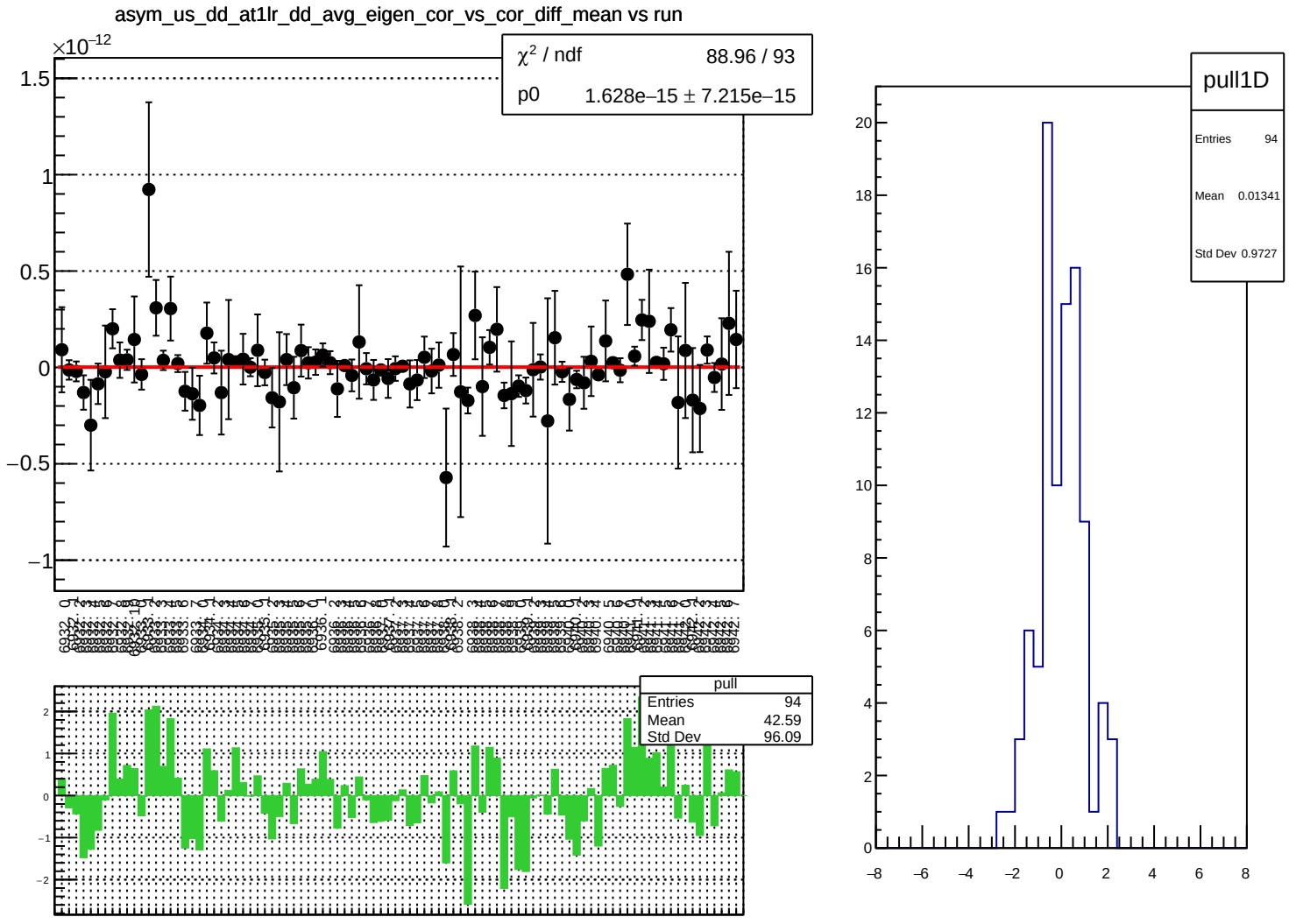

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5885 / 93
p0 0.002514 ± 1.896e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

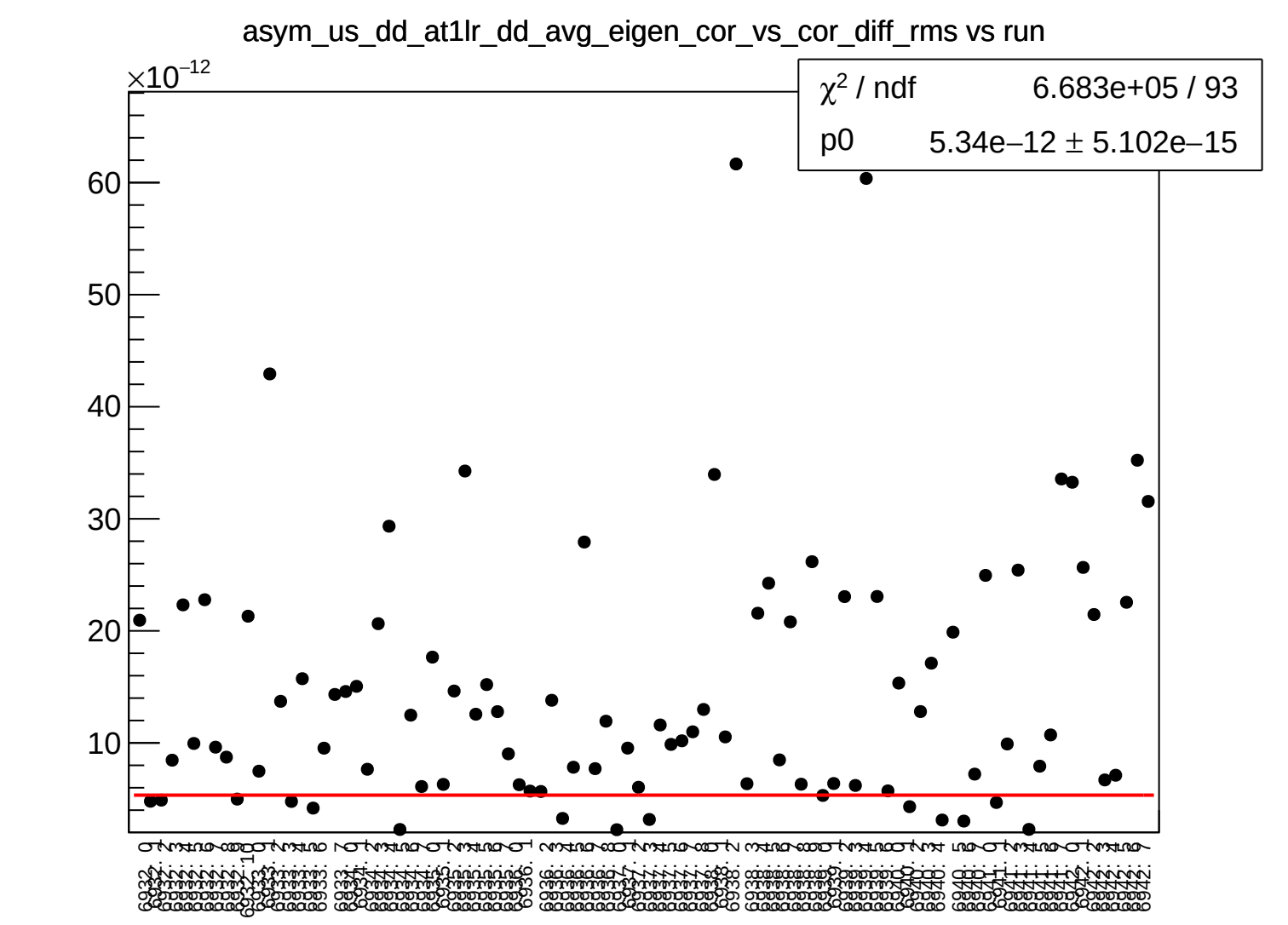

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.74 / 93
p0 −0.006332 ± 0.04405
pull
Entries 94
Mean 39.57
Std Dev 0
pull1D
Entries 94
Mean −0.05537
Std Dev 0.9646

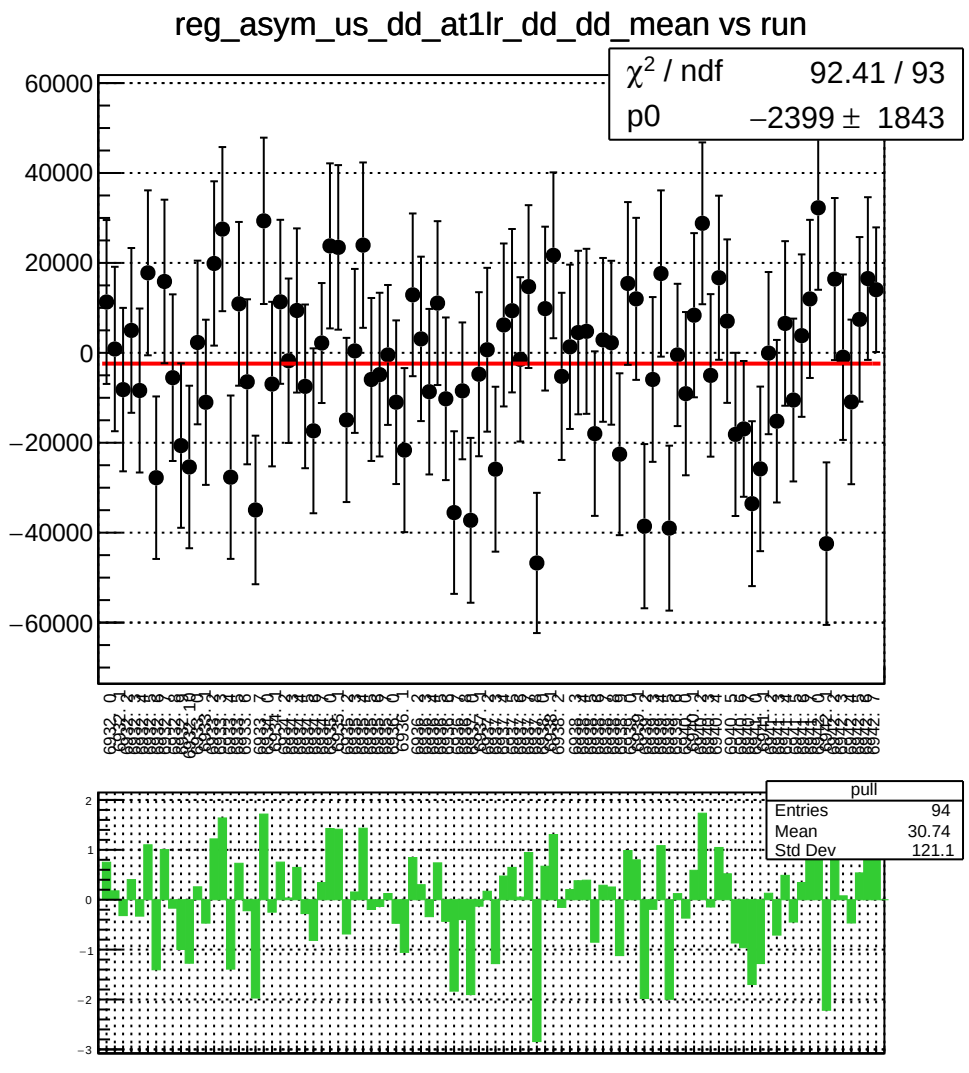

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.482e+05 / 93
p0 38.35 ± 0.03115
100
90
80
70
60
50
40
30
20
10

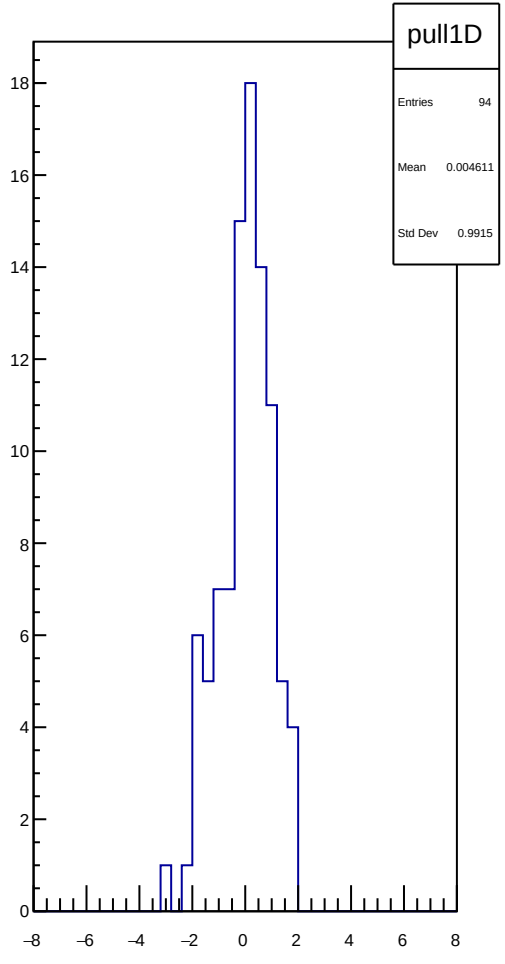

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.74 / 93
p0 −0.006332 ± 0.04405
pull
Entries 94
Mean 39.57
Std Dev 0
pull1D
Entries 94
Mean −0.05537
Std Dev 0.9646

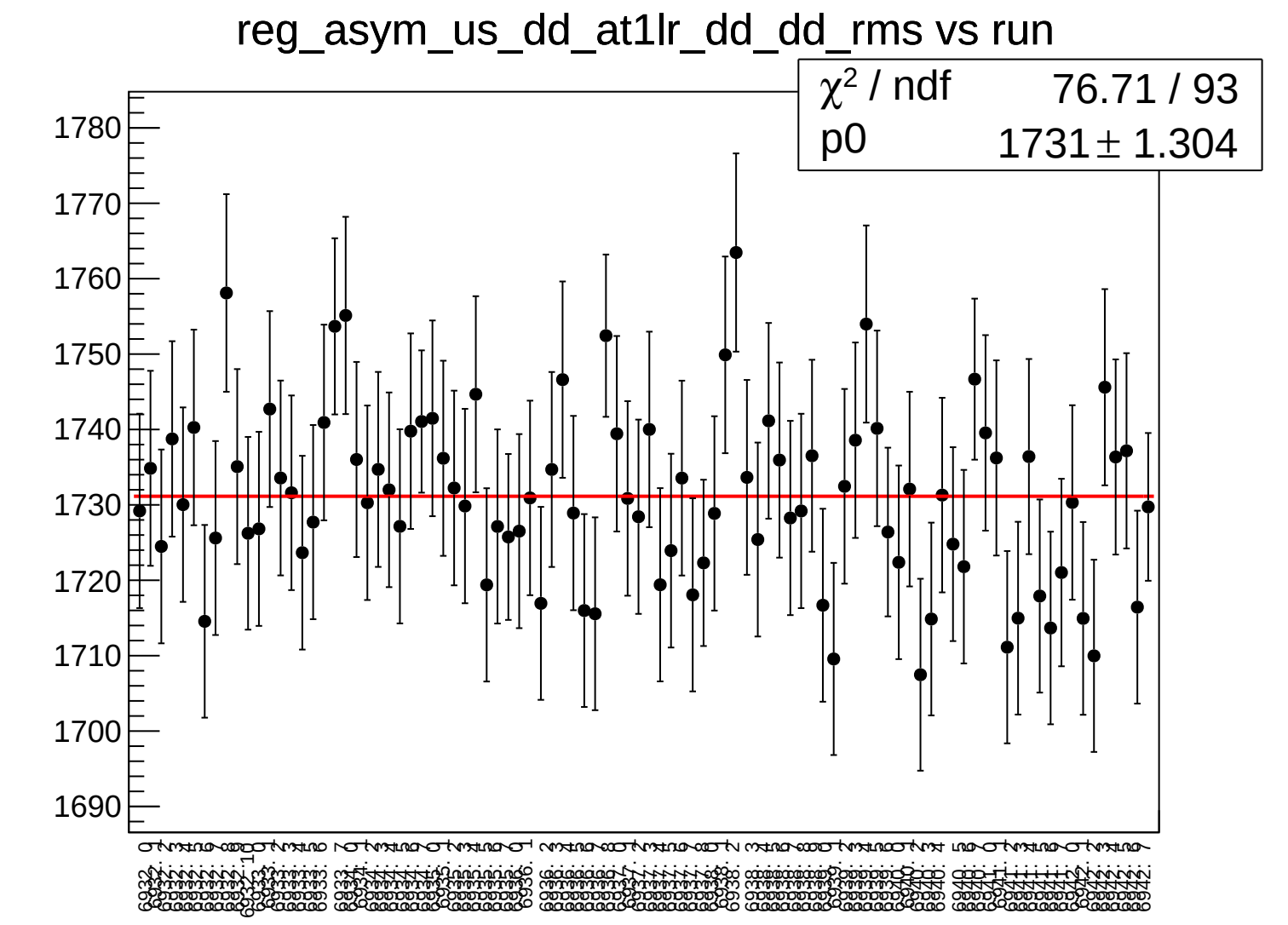

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.482e+05 / 93
p0 38.35 ± 0.03115
100
90
80
70
60
50
40
30
20
10

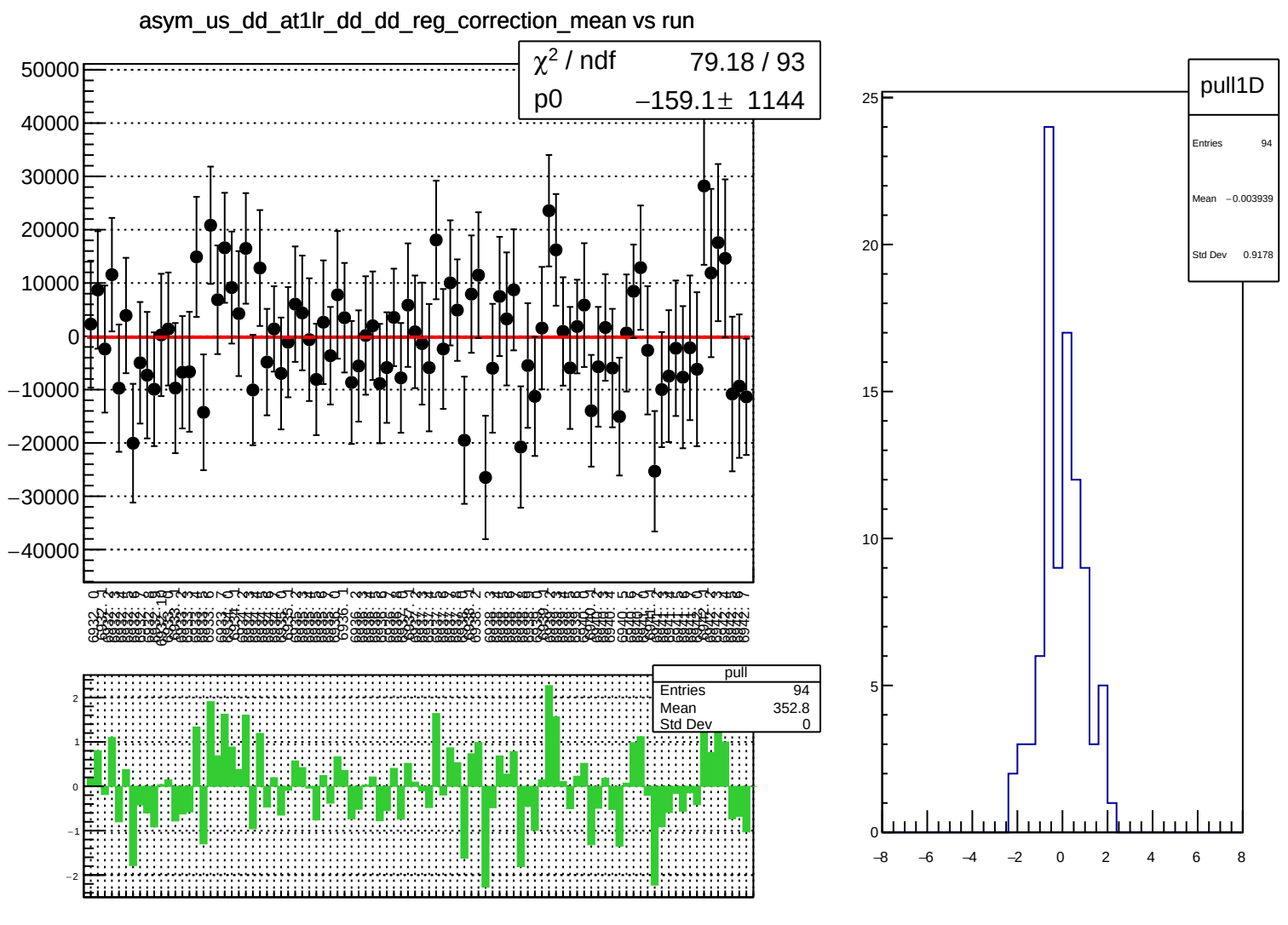

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 88.96 / 93
p0 1.628e−15 ± 7.215e−15
1.5
1
0.5
0
−0.5
−1
pull
Entries 94
Mean 42.59
Std Dev 96.09
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01341
Std Dev 0.9727
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

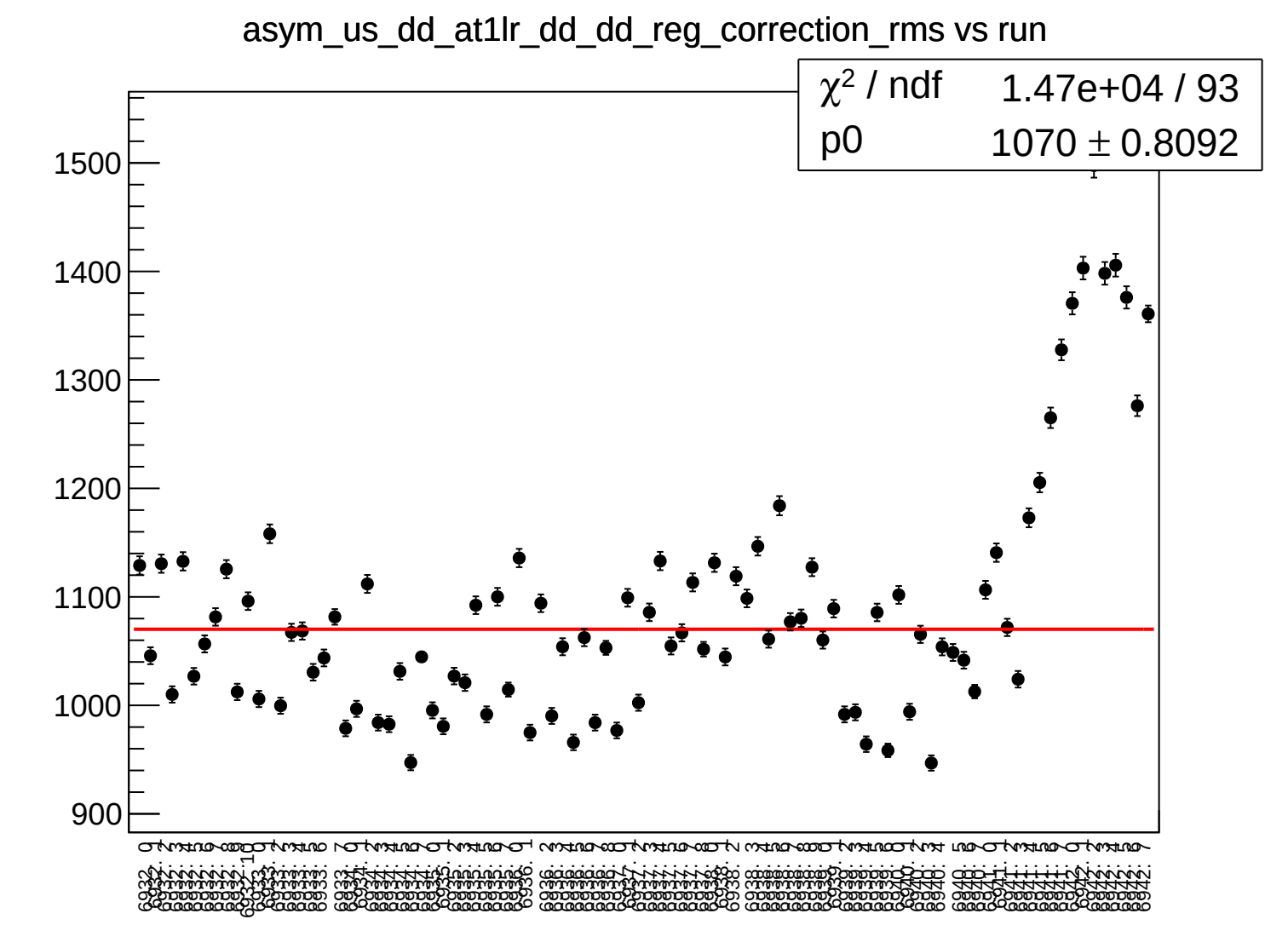

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.683e+05 / 93
p0 5.34e−12 ± 5.102e−15
60
50
40
30
20
10

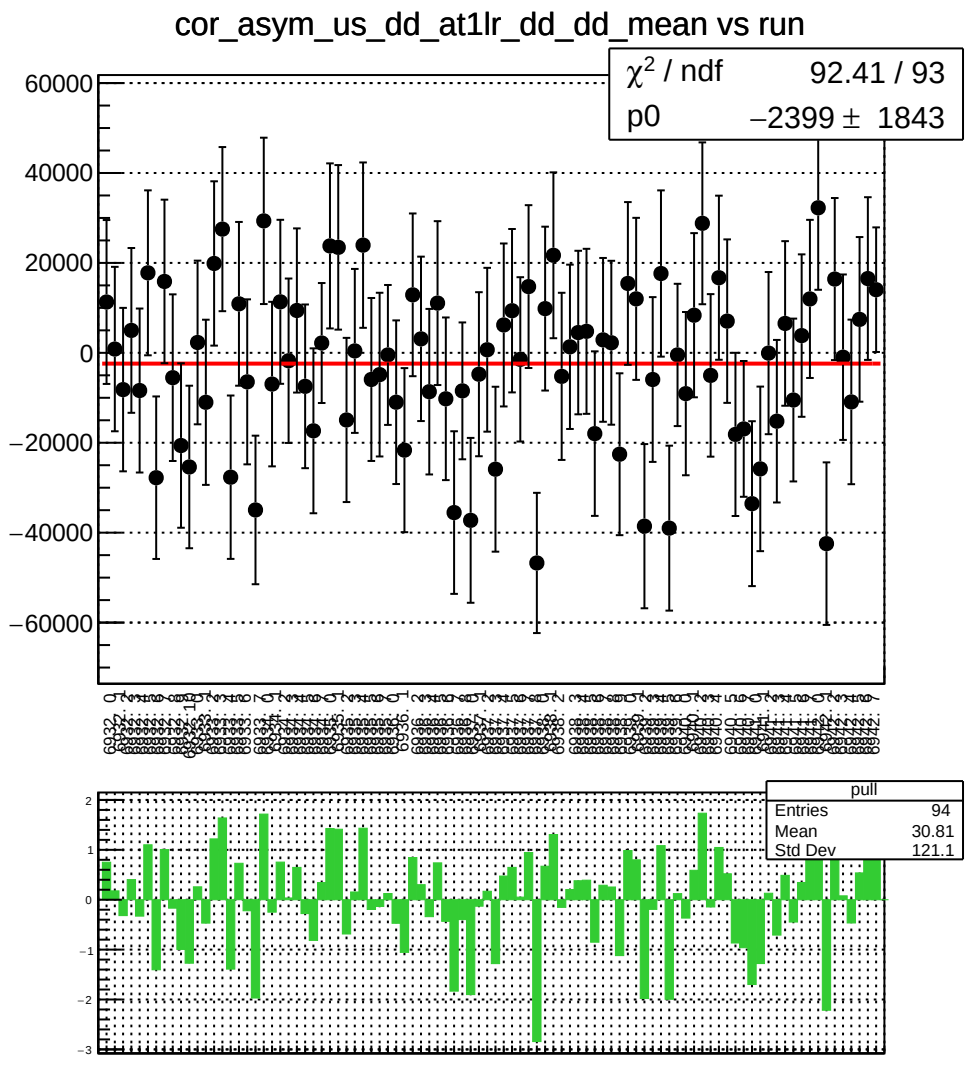

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.41 / 93
p0 −2399 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 30.74
Std Dev 121.1
2
1
0
−1
−2
−3

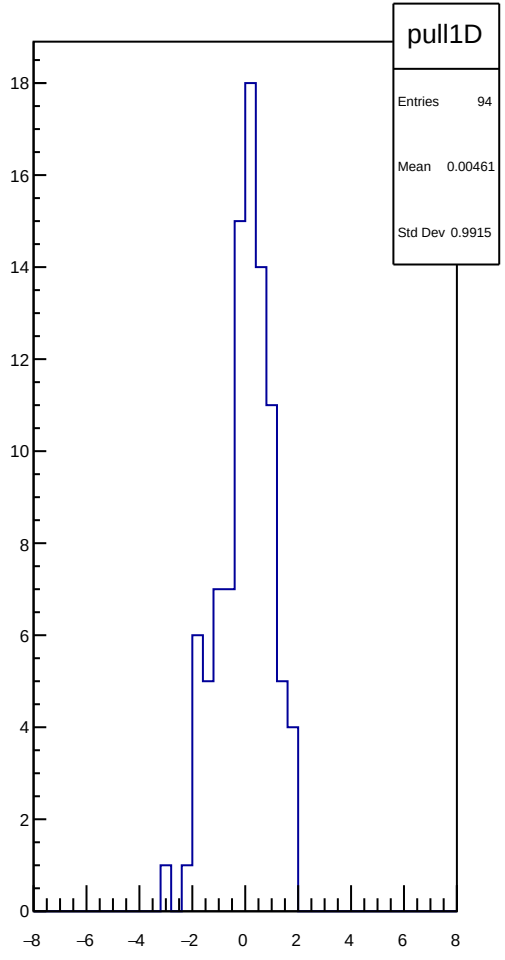

pull1D
Entries 94
Mean 0.004611
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

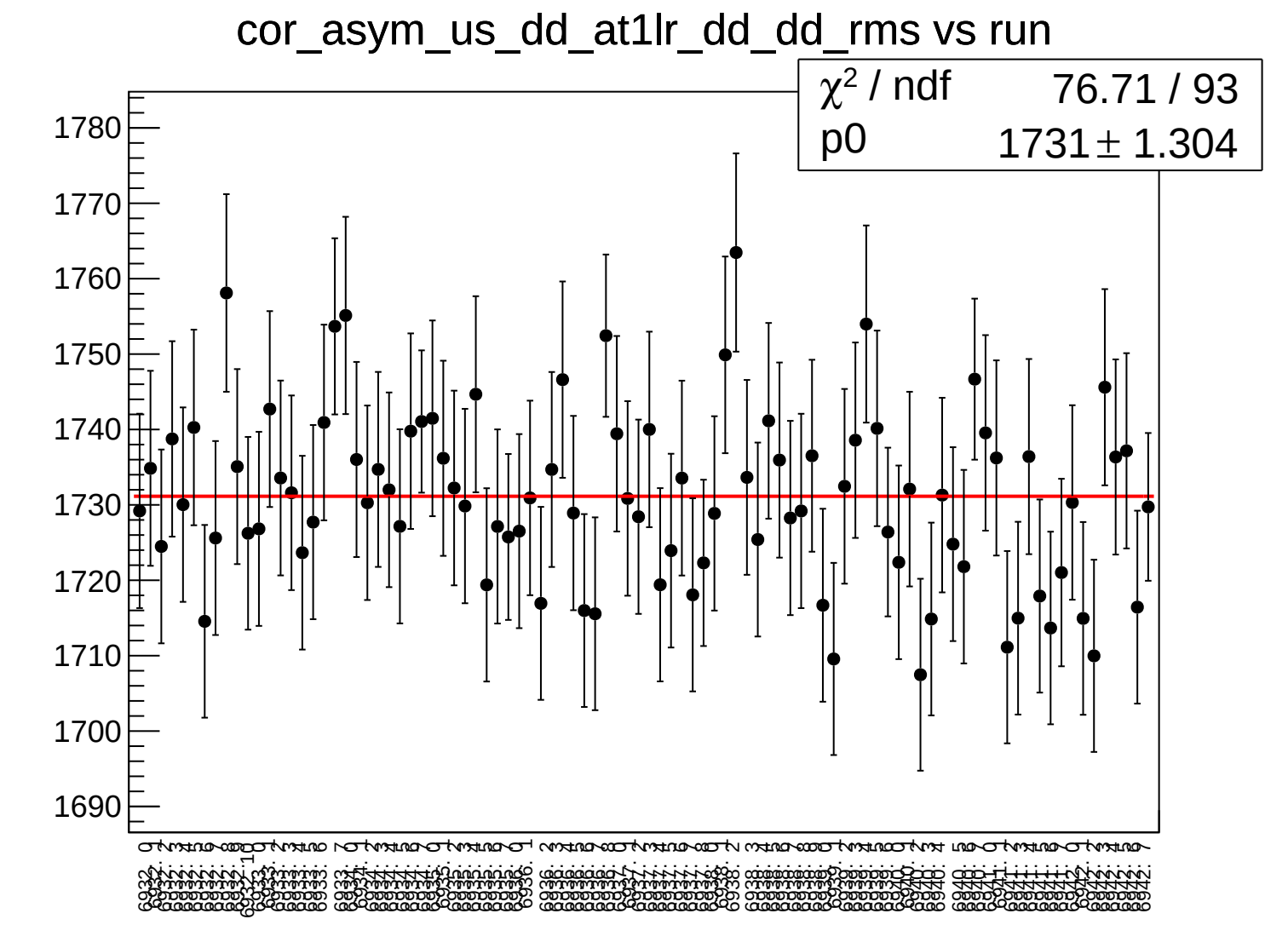

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.71 / 93
p0 1731 ± 1.304
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

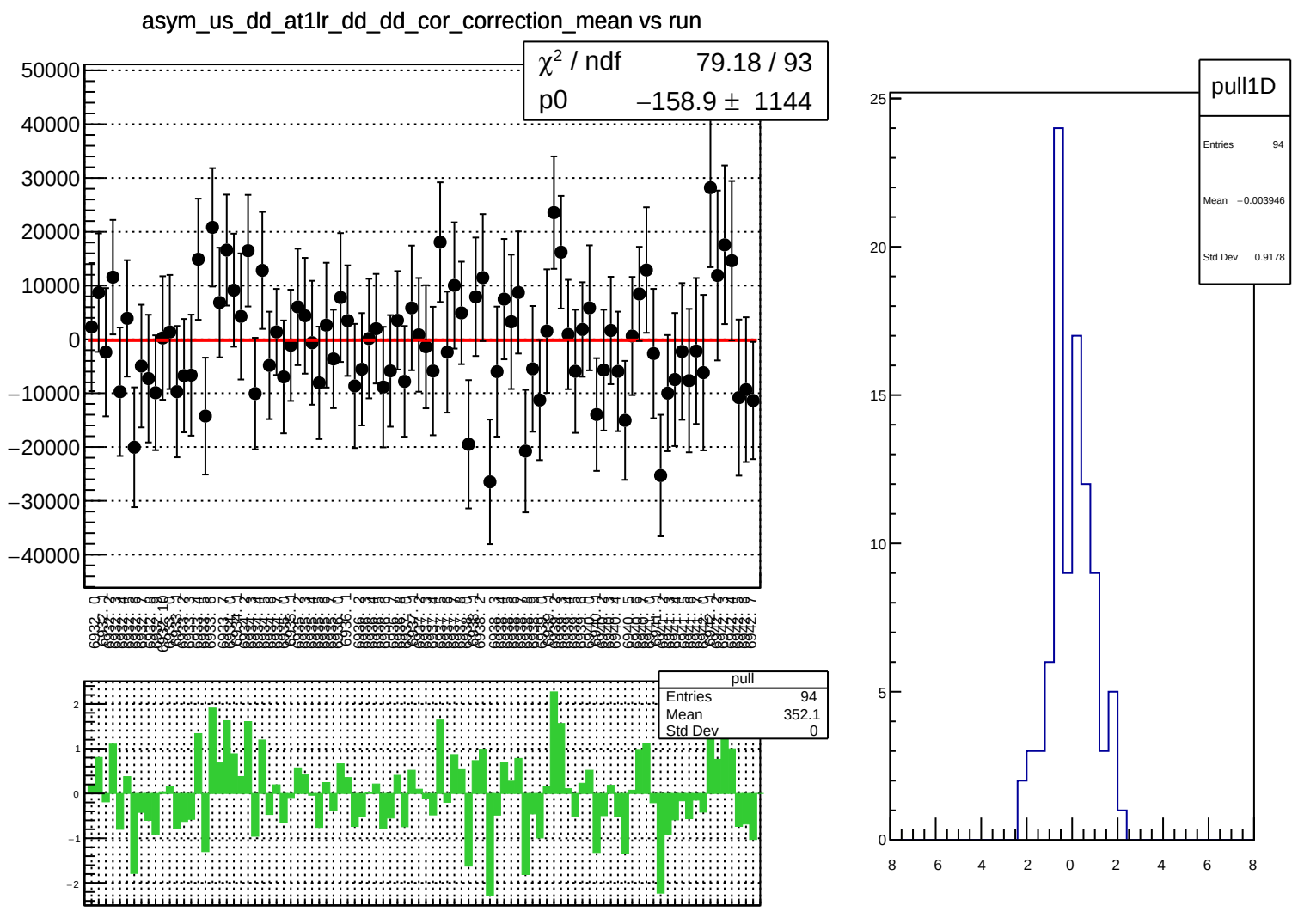

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 79.18 / 93
p0 −159.1± 1144
pull
Entries 94
Mean 352.8
Std Dev 0
pull1D
Entries 94
Mean −0.003939
Std Dev 0.9178

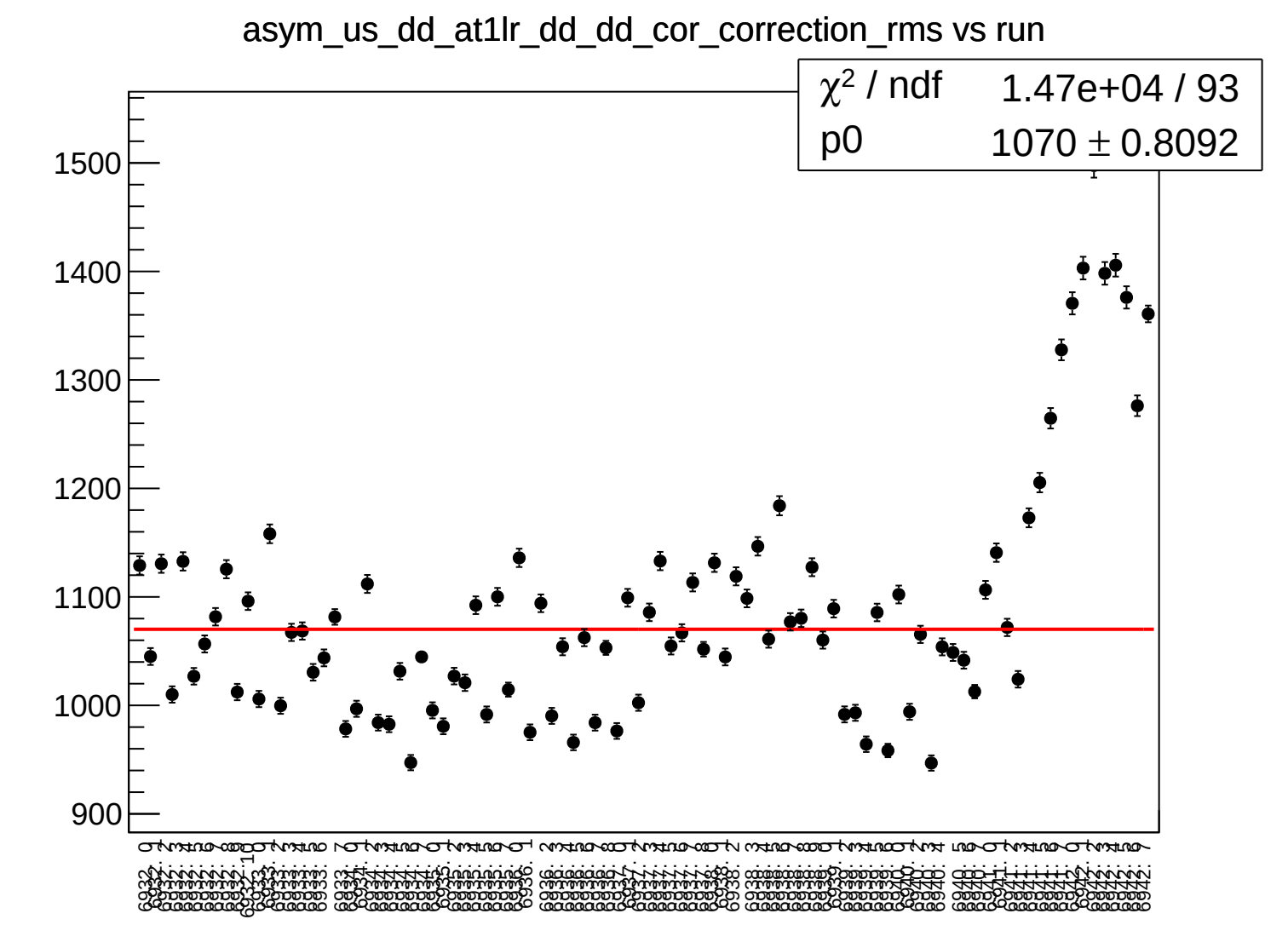

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 1070 ± 0.8092
1500
1400
1300
1200
1100
1000
900

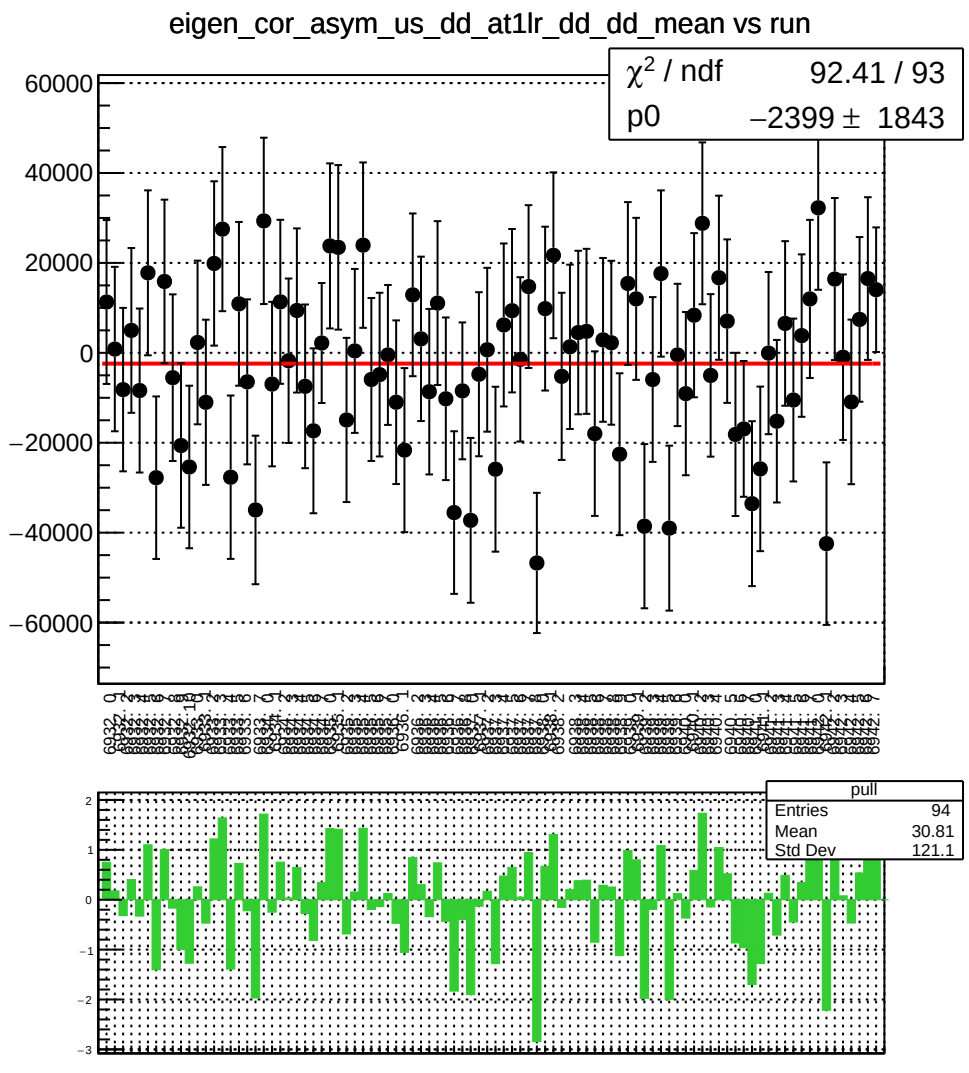

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.41 / 93
p0 −2399 ± 1843
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 30.81
Std Dev 121.1
2
1
0
−1
−2
−3

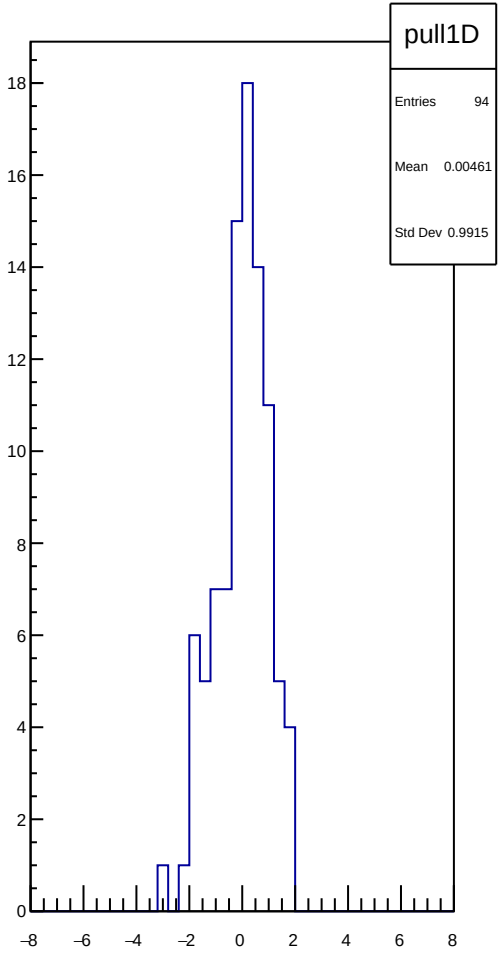

pull1D
Entries 94
Mean 0.00461
Std Dev 0.9915
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

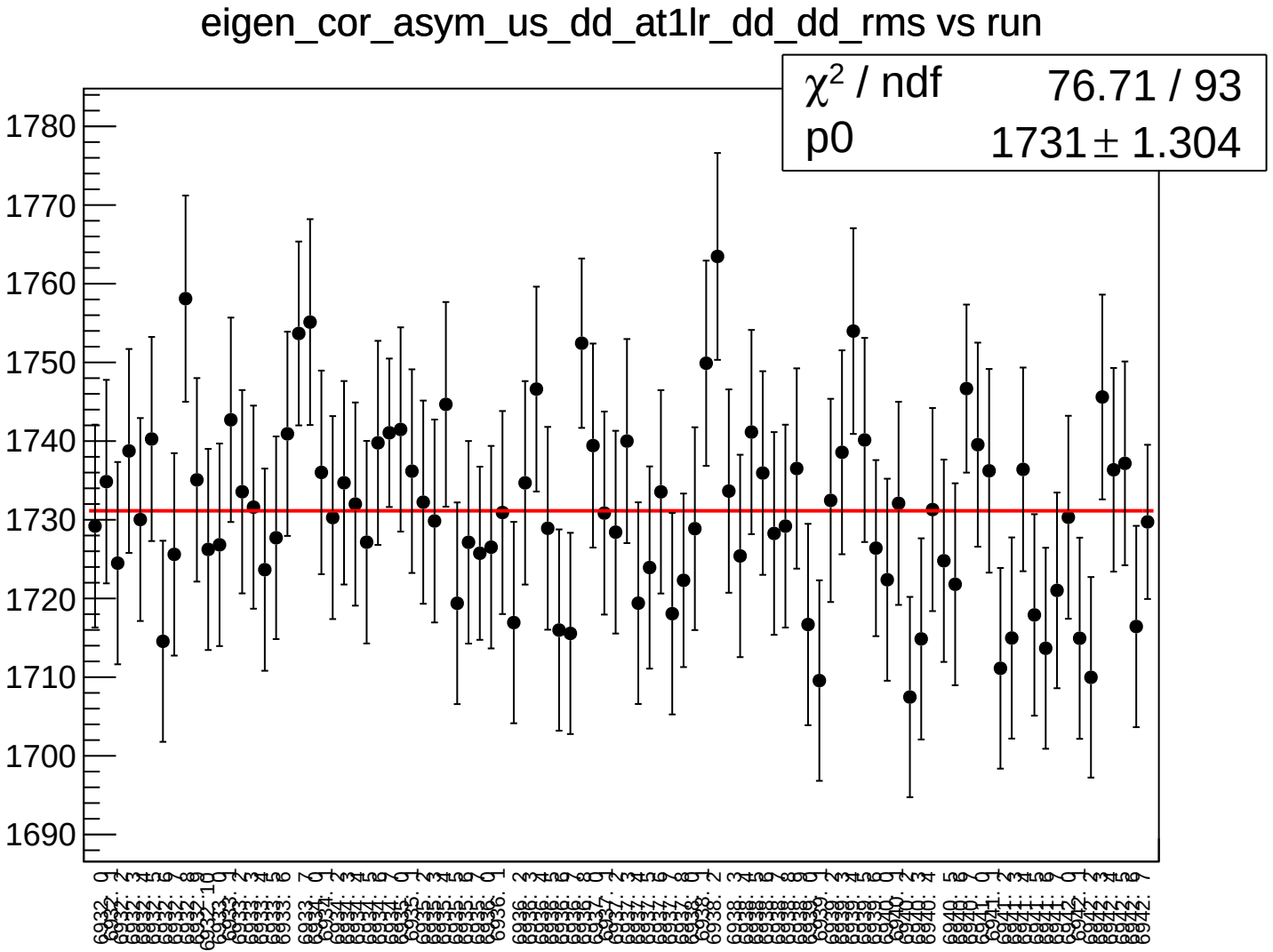

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.71 / 93
p0 1731 ± 1.304
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

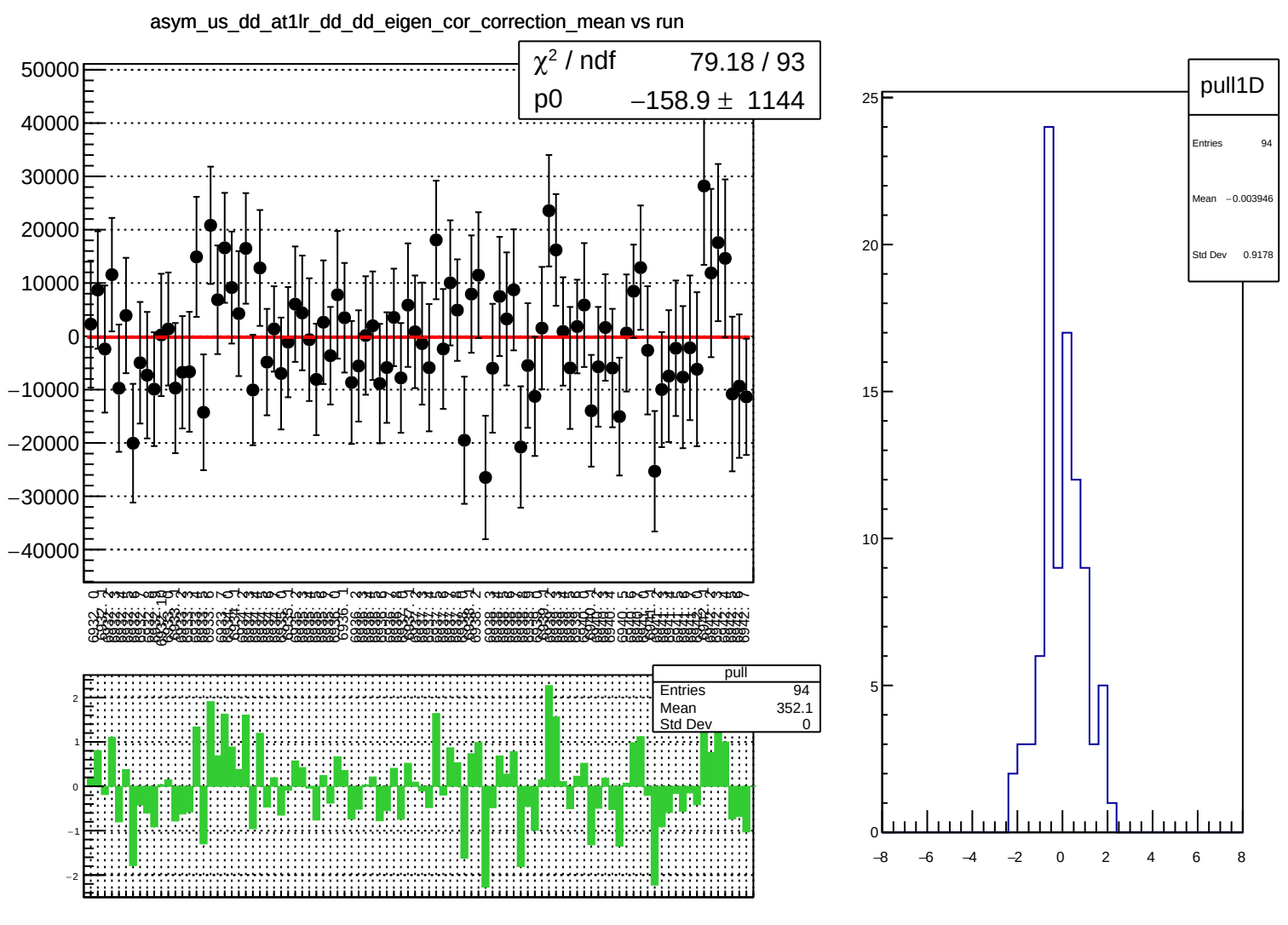

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 79.18 / 93
p0 −158.9 ± 1144
pull
Entries 94
Mean 352.1
Std Dev 0
pull1D
Entries 94
Mean −0.003946
Std Dev 0.9178

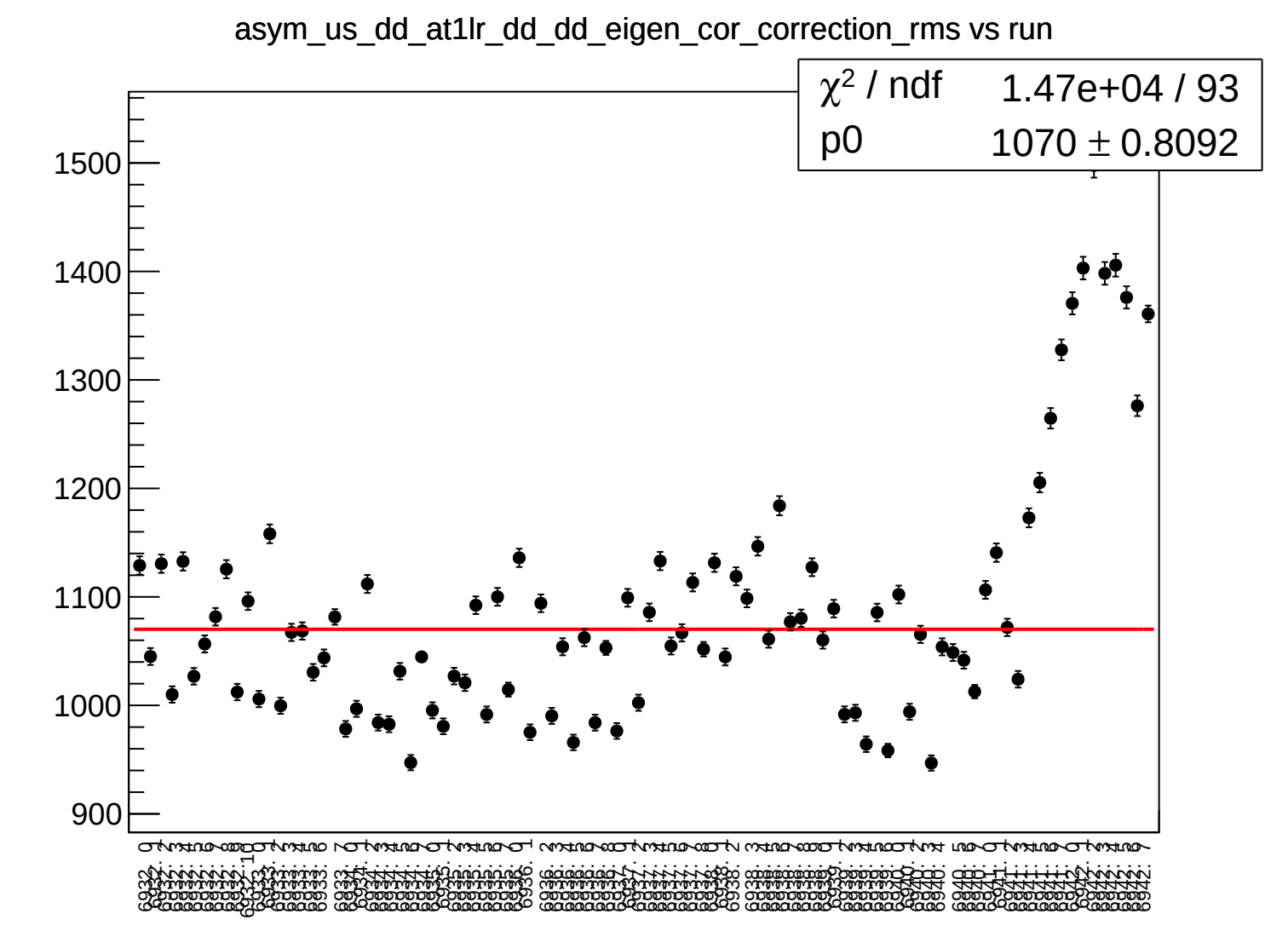

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 1070 ± 0.8092
1500
1400
1300
1200
1100
1000
900

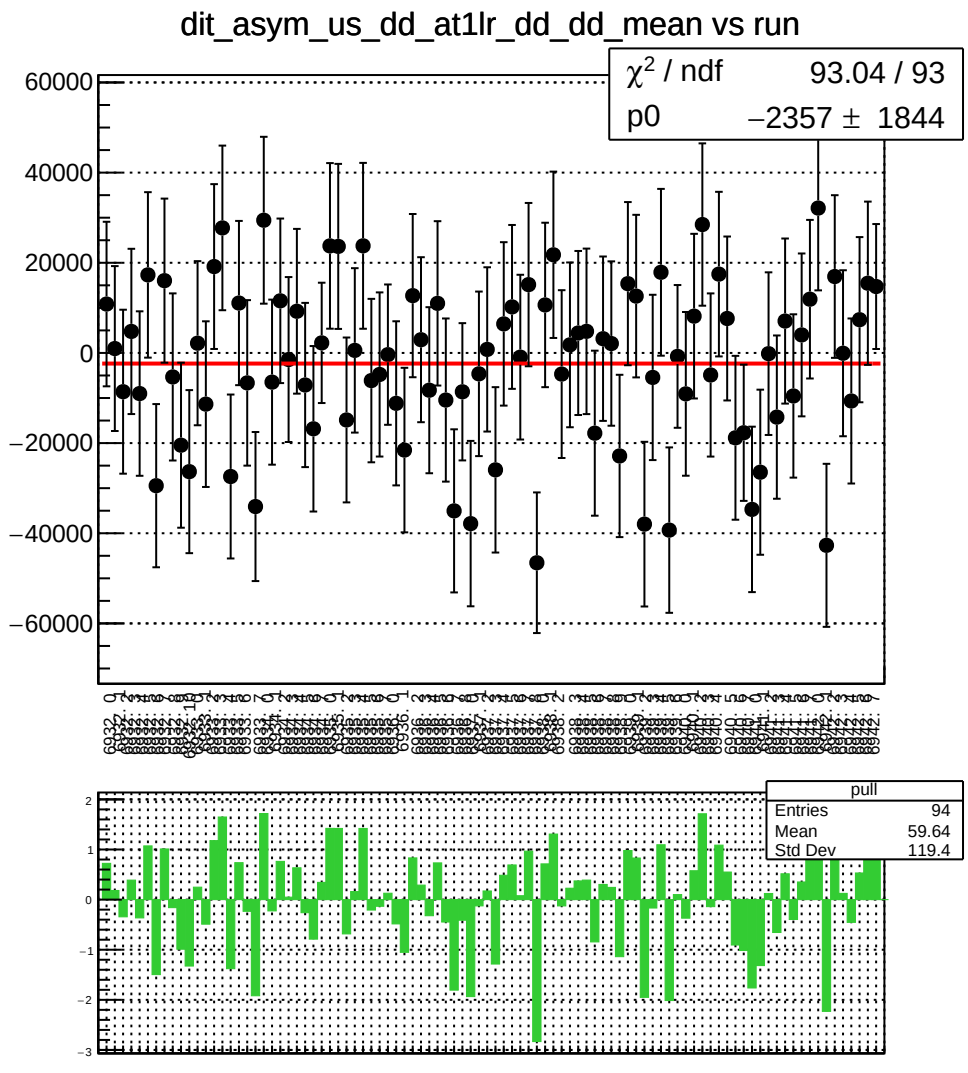

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 92.41 / 93
p0 −2399 ± 1843
pull
Entries 94
Mean 30.81
Std Dev 121.1

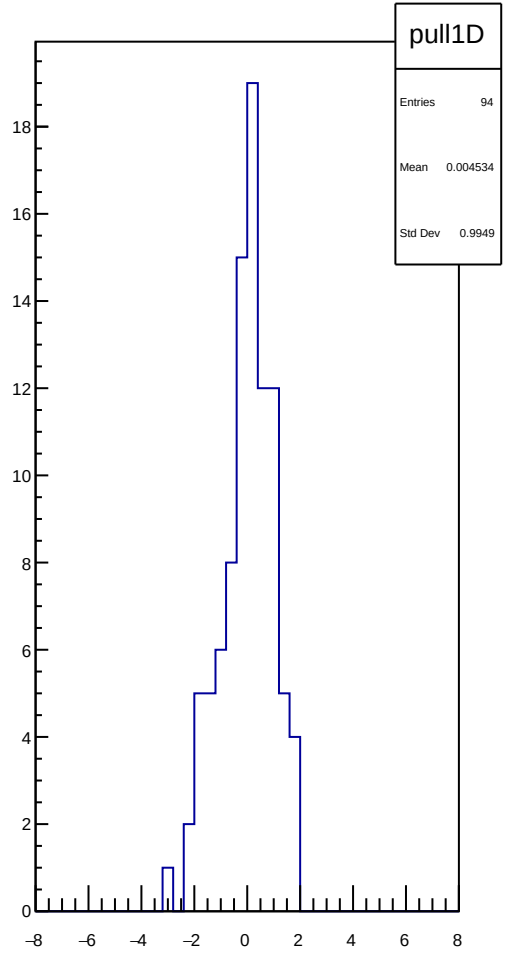

pull1D
Entries 94
Mean 0.00461
Std Dev 0.9915

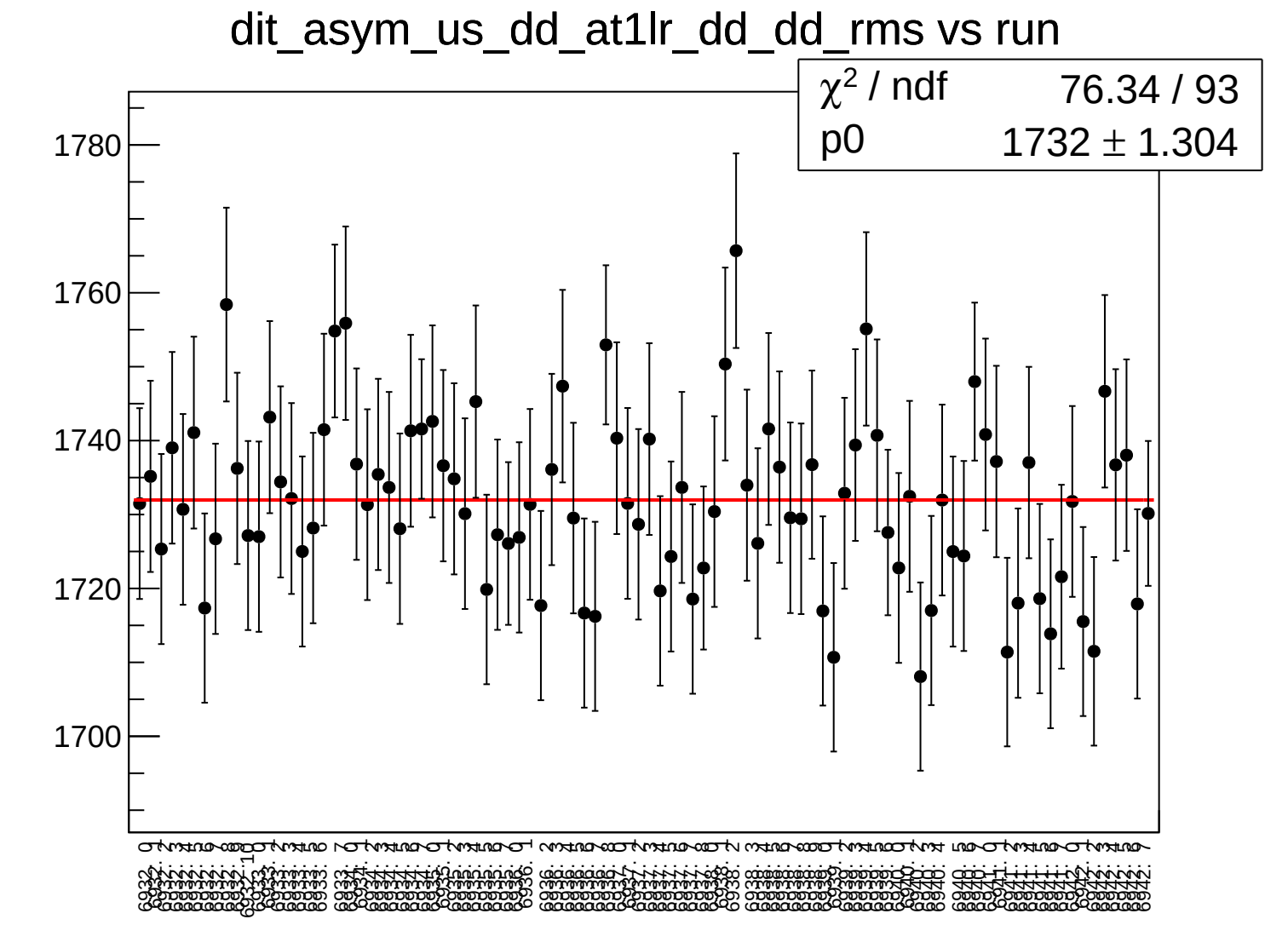

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.71 / 93
p0 1731 ± 1.304
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690

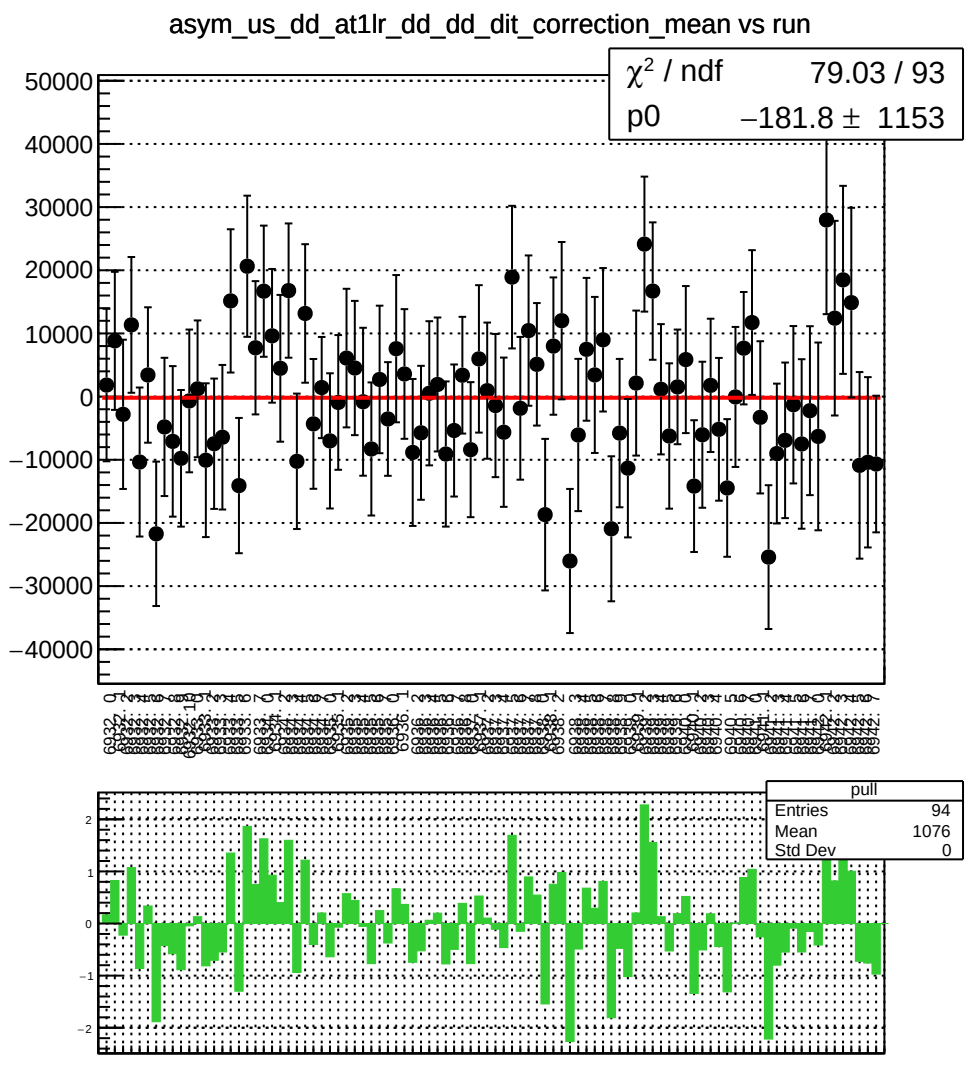

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.18 / 93
p0 −158.9 ± 1144
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 352.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003946
Std Dev 0.9178
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

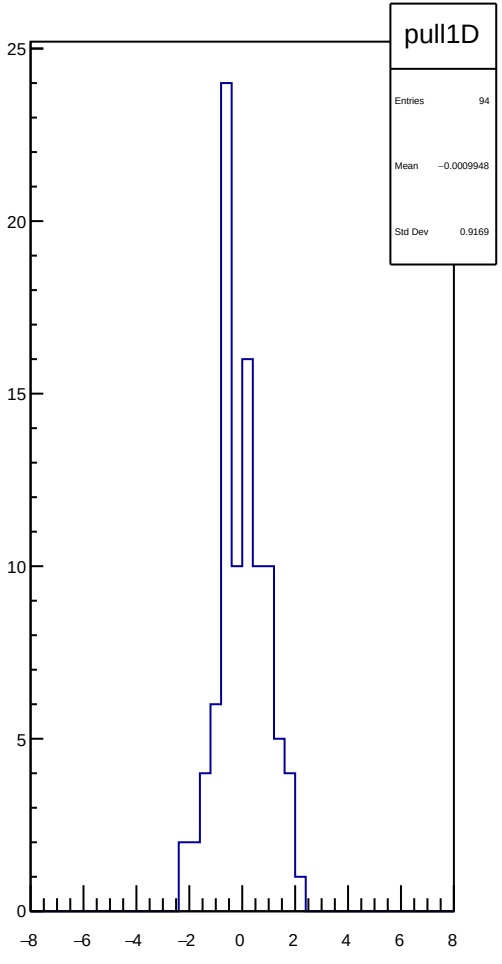

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.47e+04 / 93
p0 1070 ± 0.8092
1500
1400
1300
1200
1100
1000
900

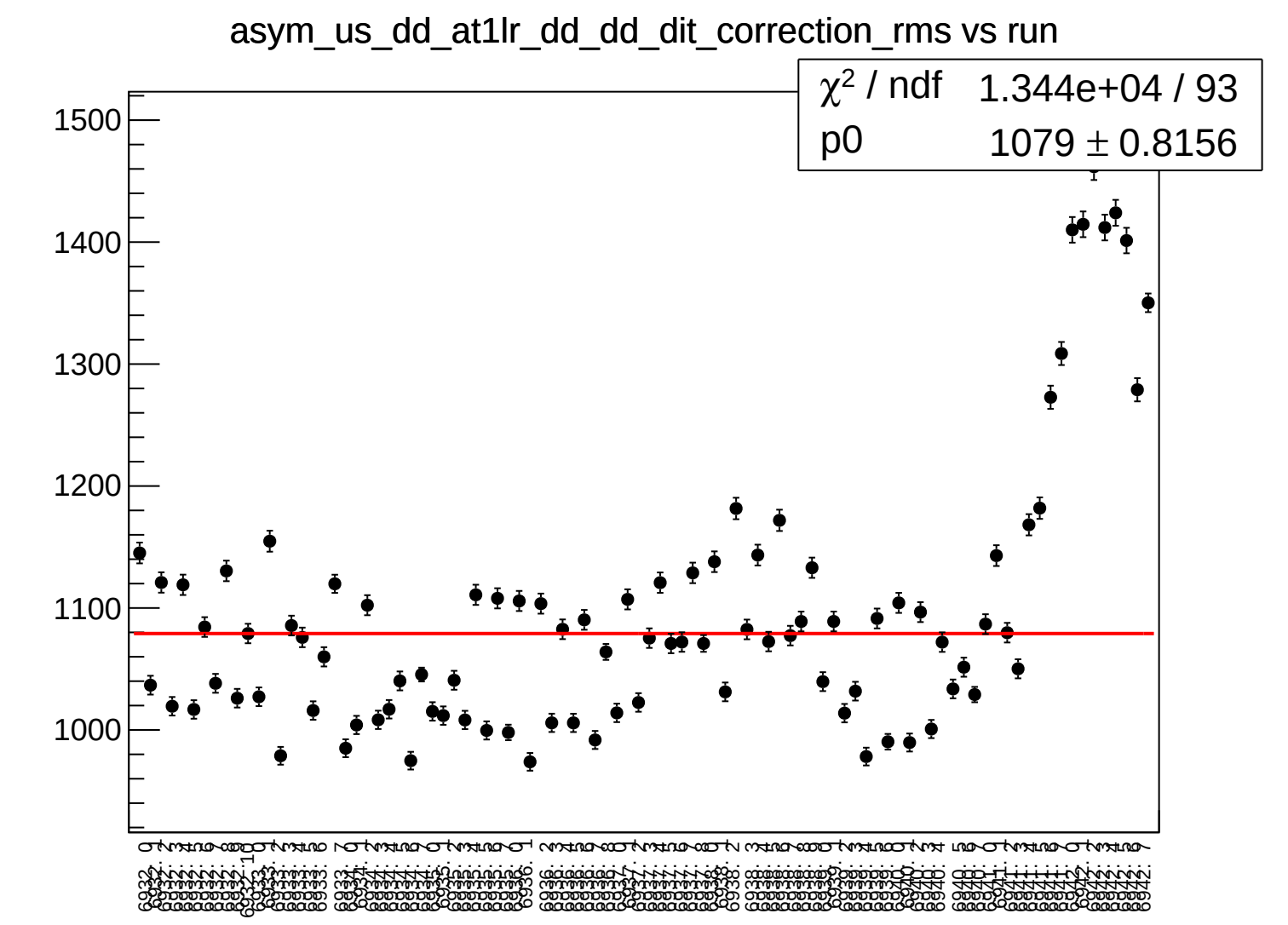

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.04 / 93
p0 −2357 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 59.64
Std Dev 119.4
2
1
0
−1
−2
−3

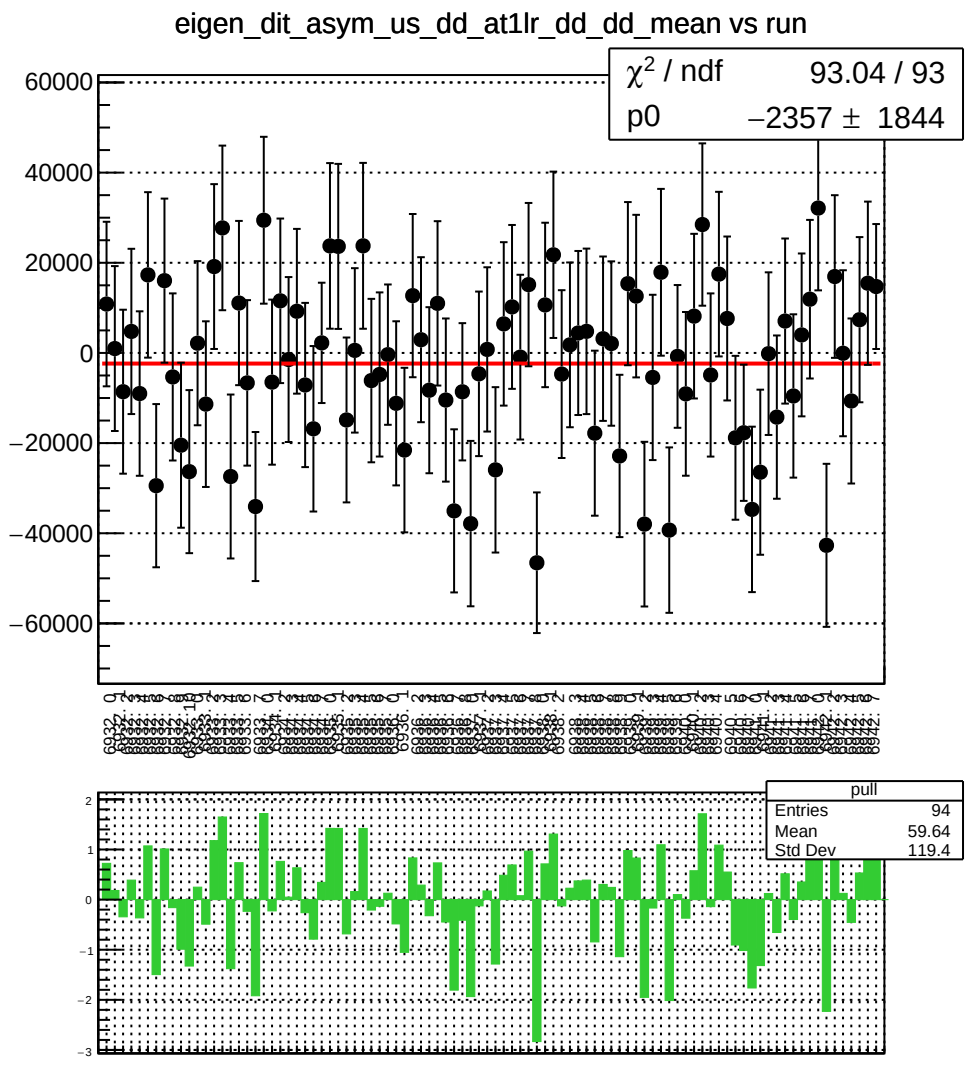

pull1D
Entries 94
Mean 0.004534
Std Dev 0.9949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

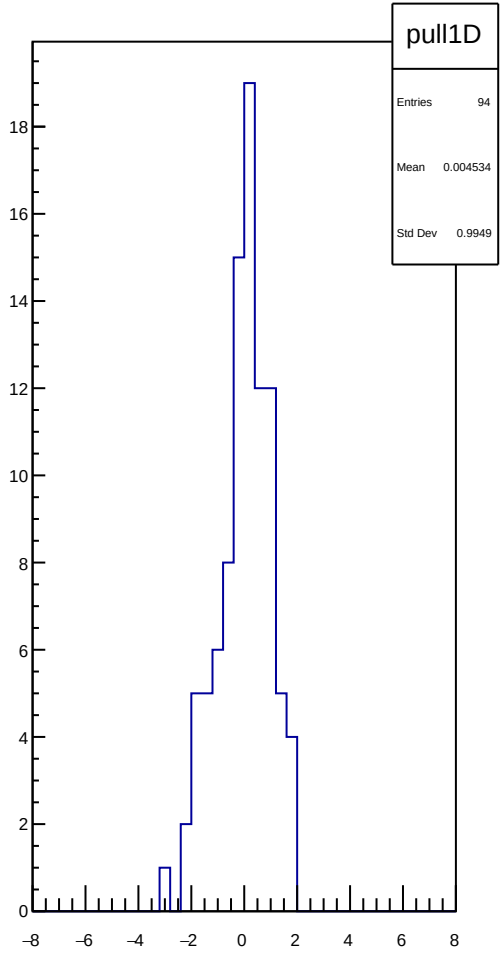

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.34 / 93
p0 1732 ± 1.304
1780
1760
1740
1720
1700

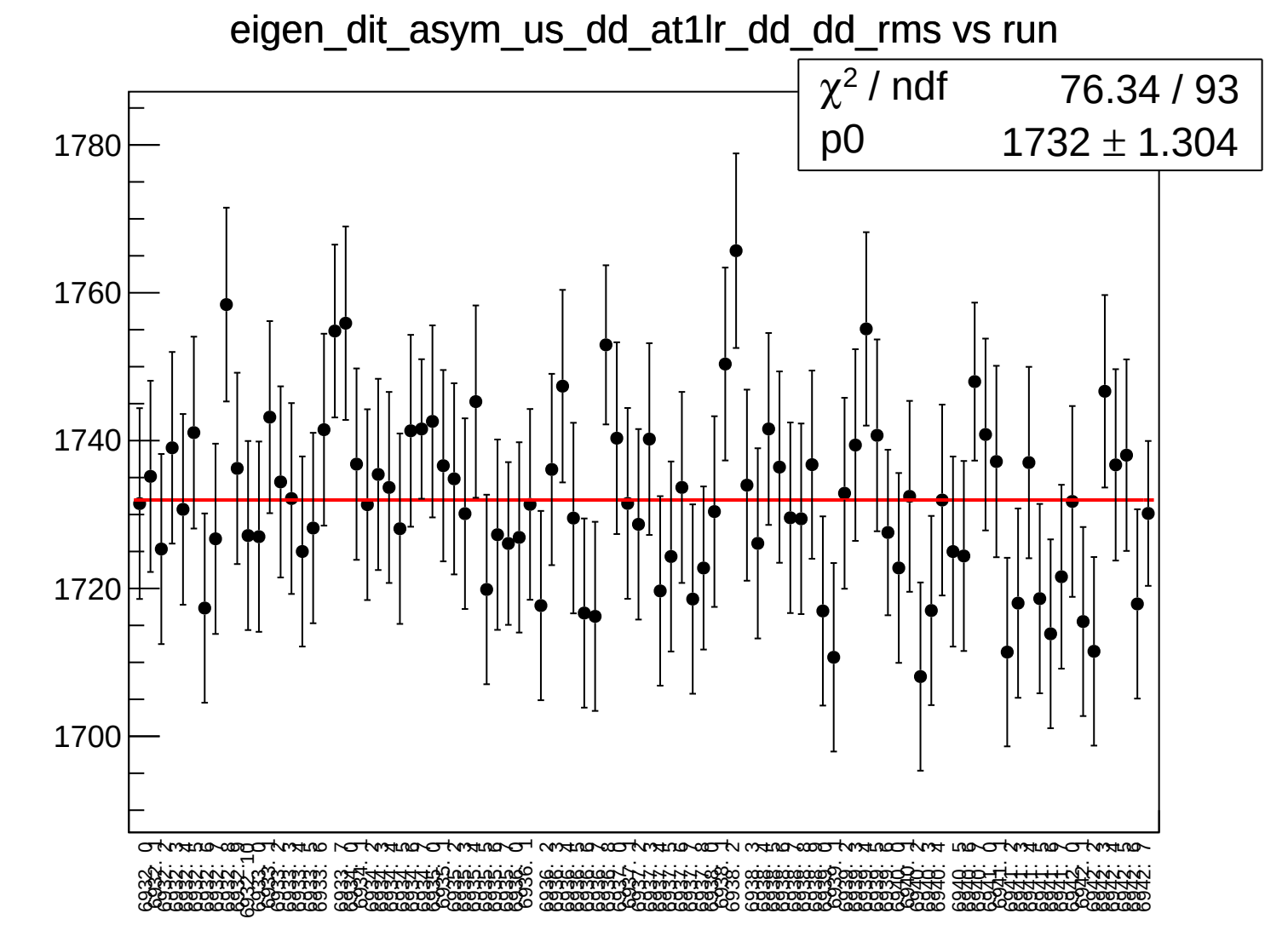

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.03 / 93
p0 −181.8 ± 1153
pull
Entries 94
Mean 1076
Std Dev 0

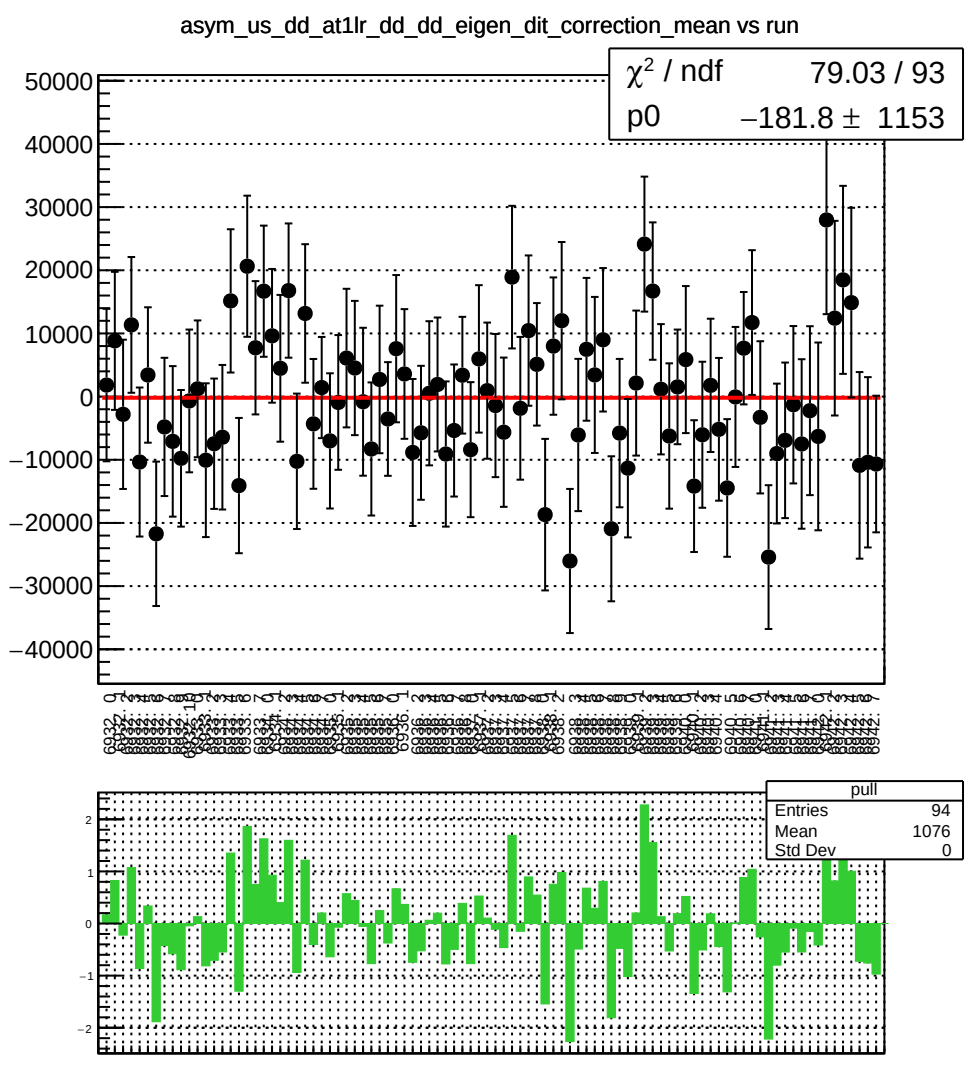

pull1D
Entries 94
Mean −0.0009948
Std Dev 0.9169

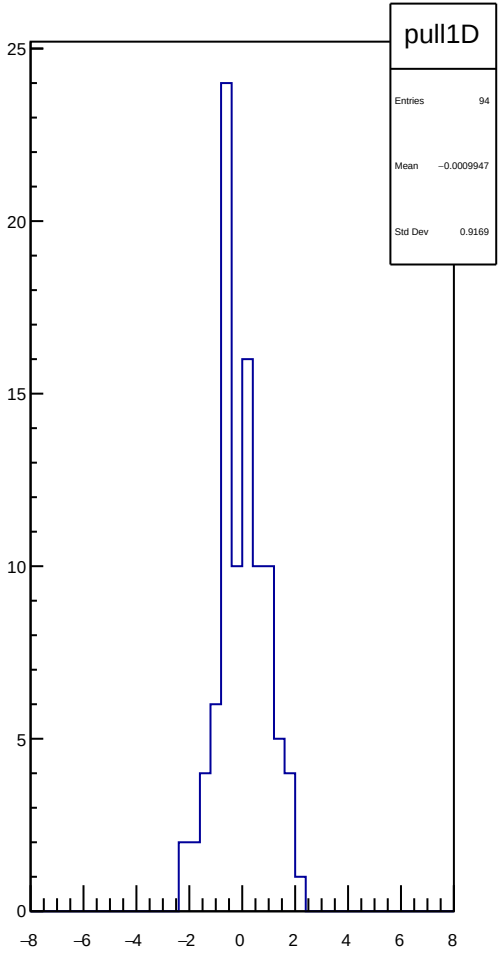

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.344e+04 / 93
p0 1079 ± 0.8156
1500
1400
1300
1200
1100
1000

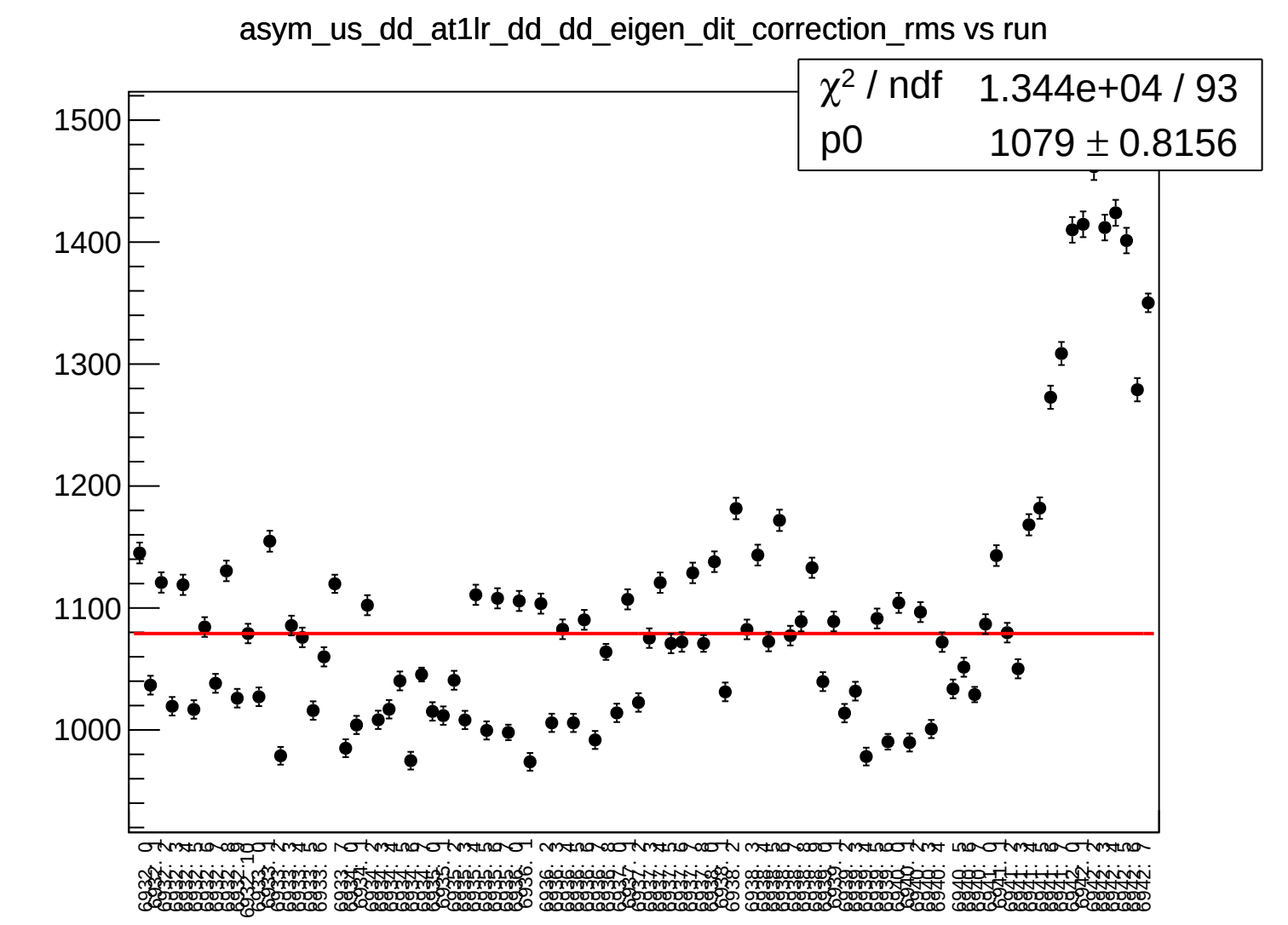

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.04 / 93
p0 −2357 ± 1844
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 59.64
Std Dev 119.4
2
1
0
−1
−2
−3

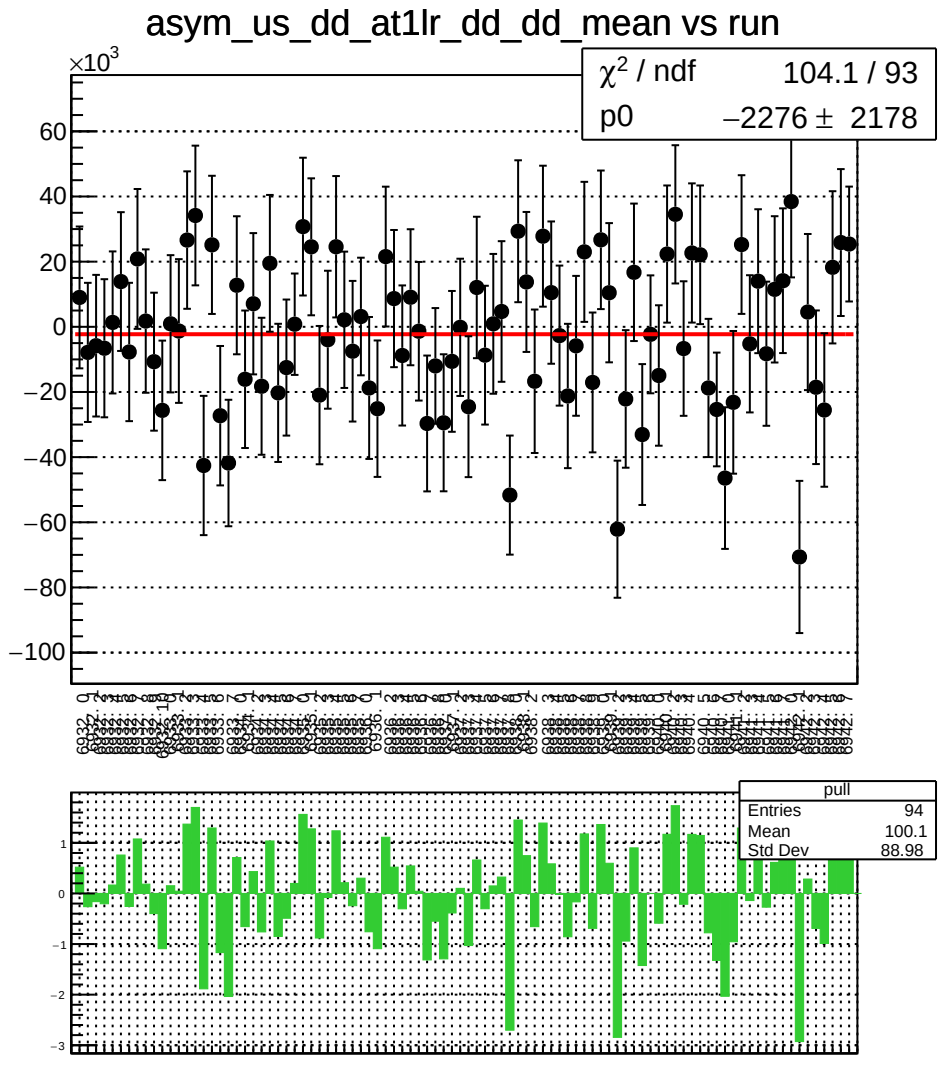

pull1D
Entries 94
Mean 0.004534
Std Dev 0.9949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

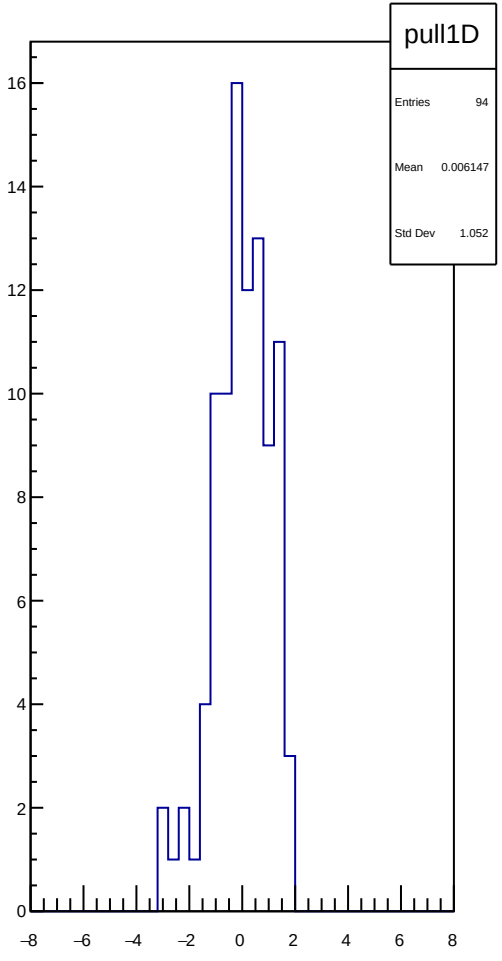

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 76.34 / 93
p0 1732 ± 1.304
1780
1760
1740
1720
1700

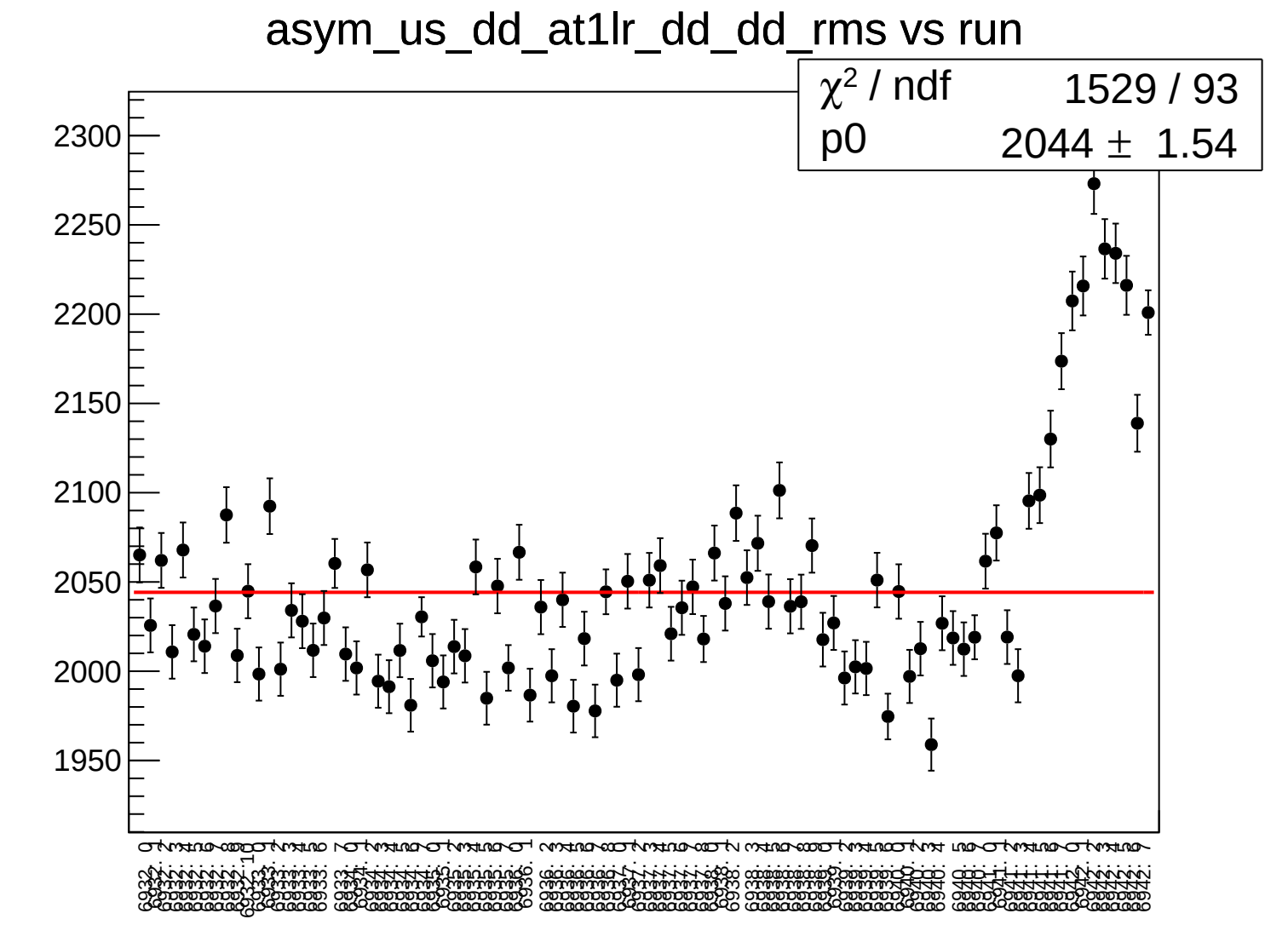

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.03 / 93
p0 −181.8 ± 1153
pull
Entries 94
Mean 1076
Std Dev 0

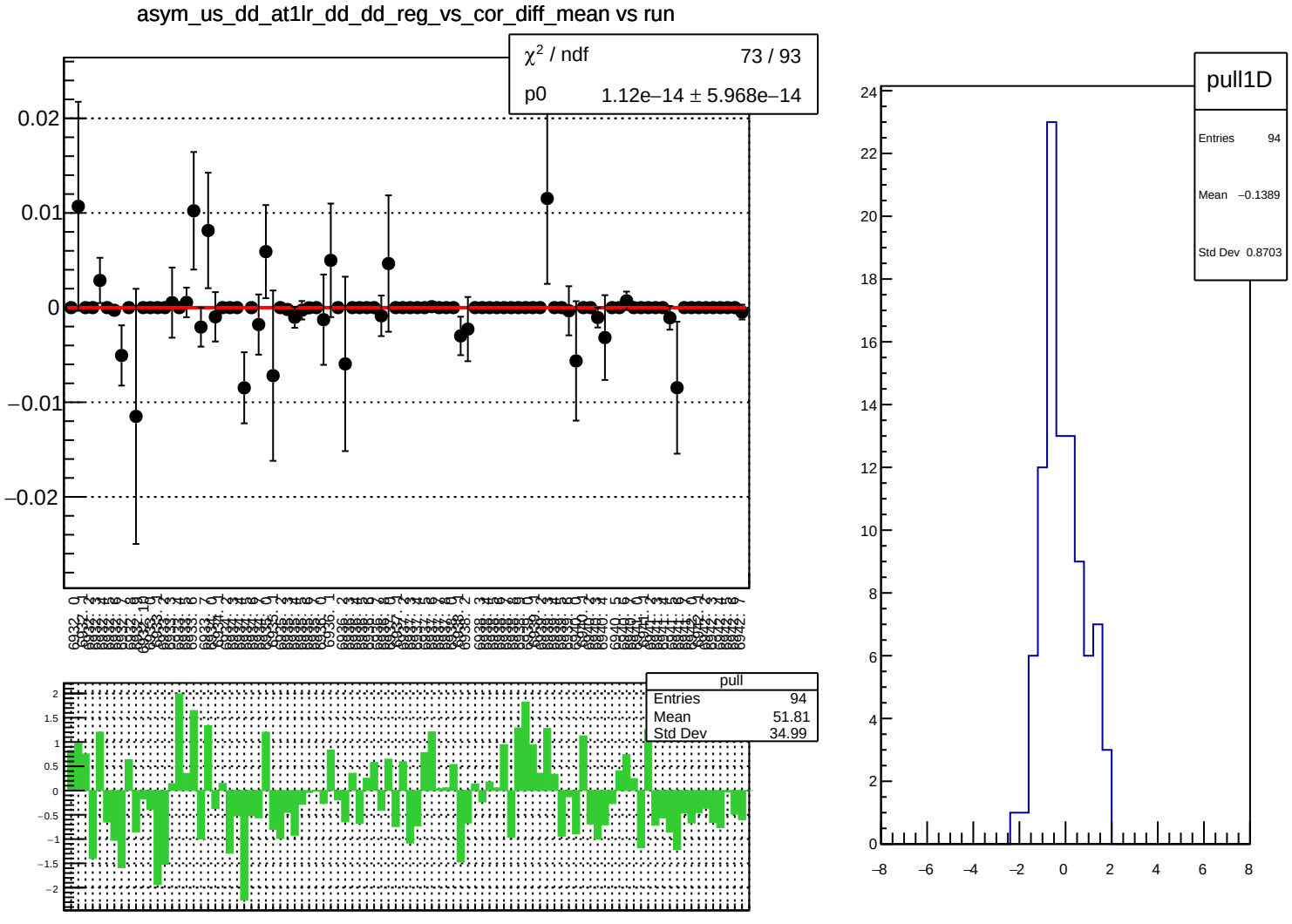

pull1D
Entries 94
Mean −0.0009947
Std Dev 0.9169

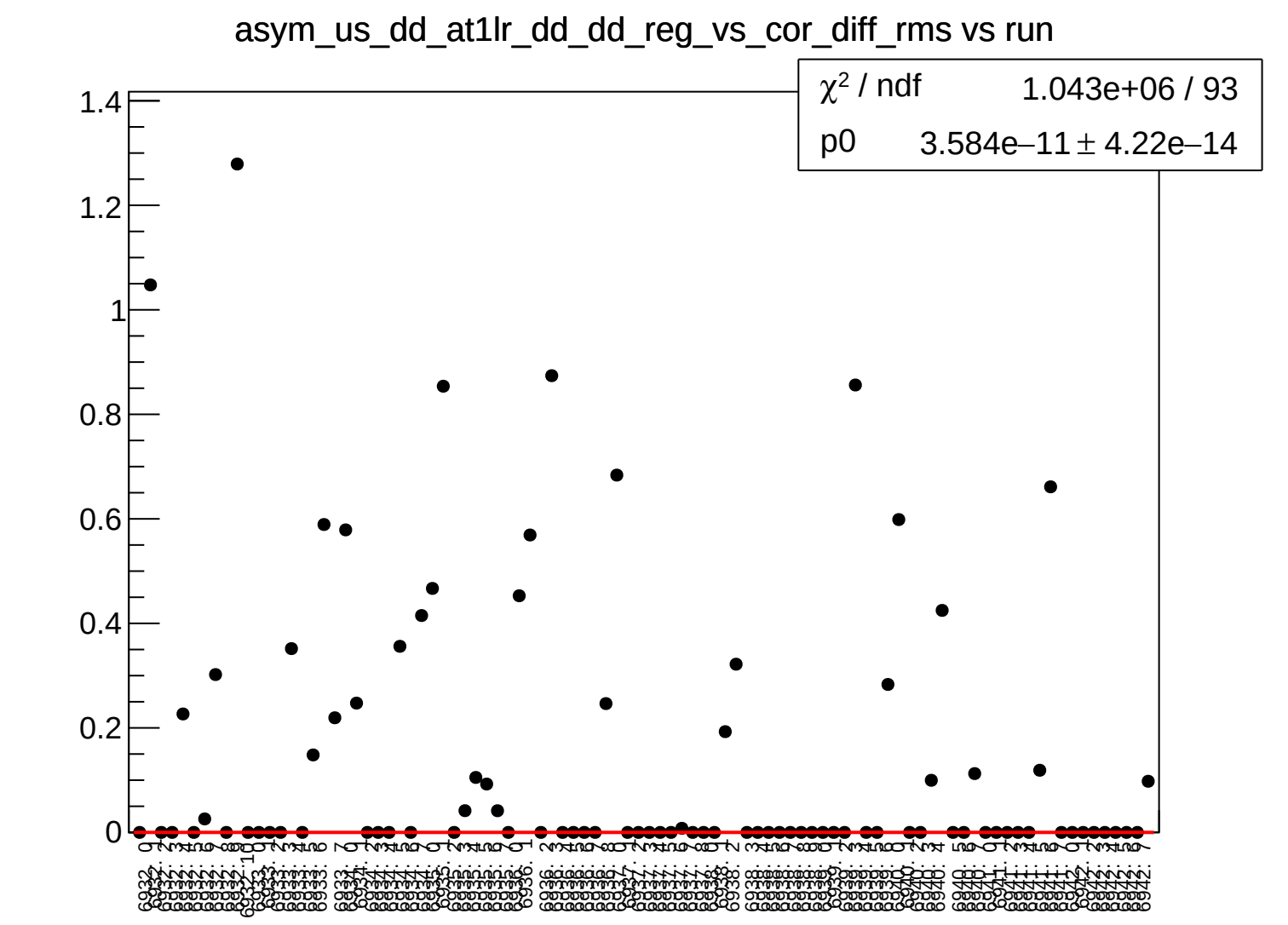

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.344e+04 / 93
p0 1079 ± 0.8156
1500
1400
1300
1200
1100
1000

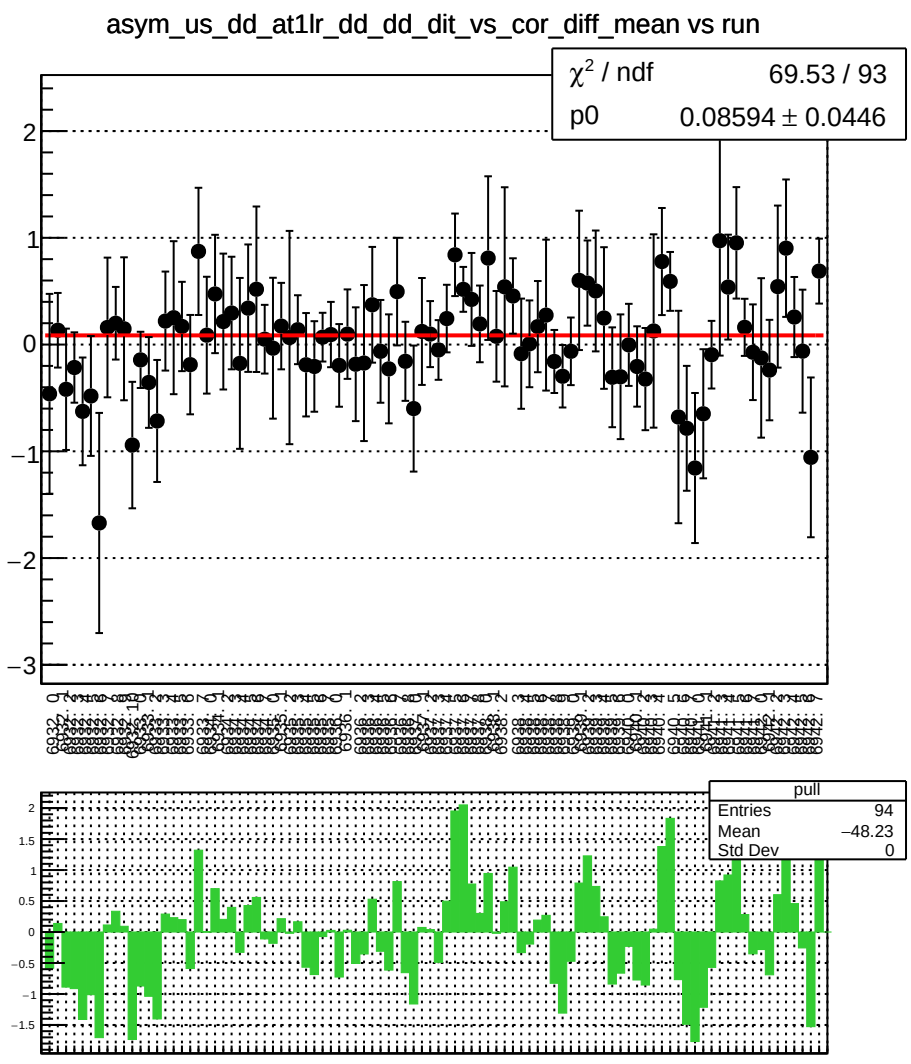

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ² / ndf 104.1 / 93
p0 −2276 ± 2178
pull
Entries 94
Mean 100.1
Std Dev 88.98

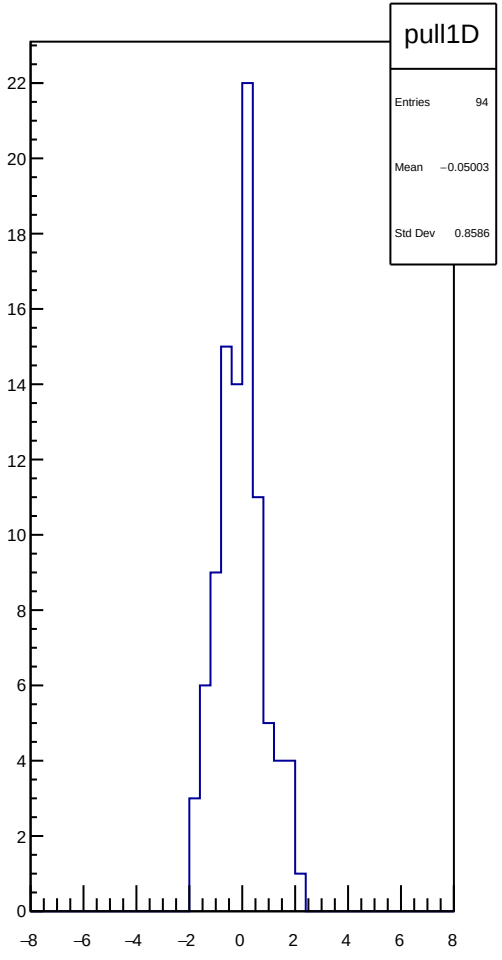

pull1D
Entries 94
Mean 0.006147
Std Dev 1.052

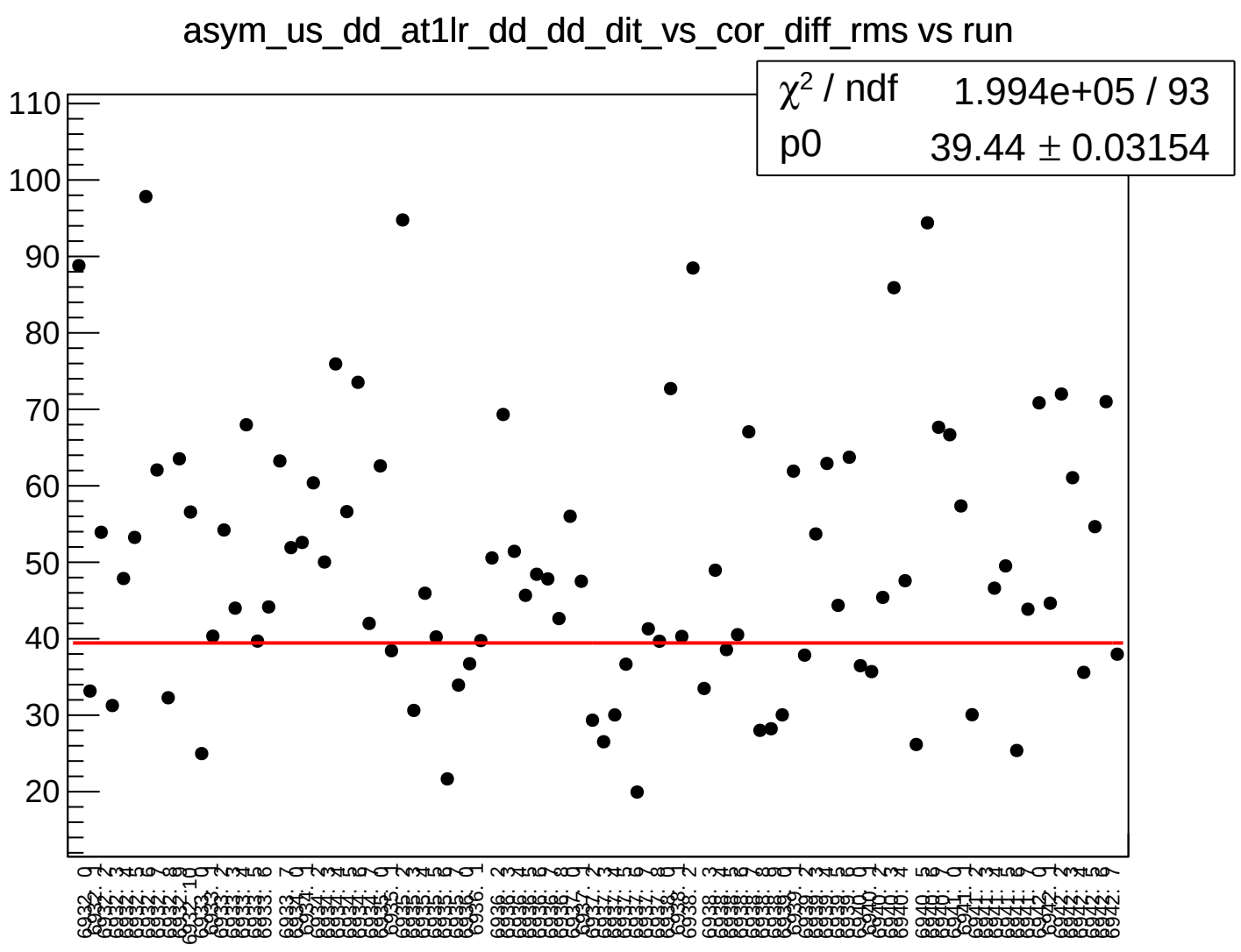

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1529 / 93
p0 2044 ± 1.54
2300
2250
2200
2150
2100
2050
2000
1950

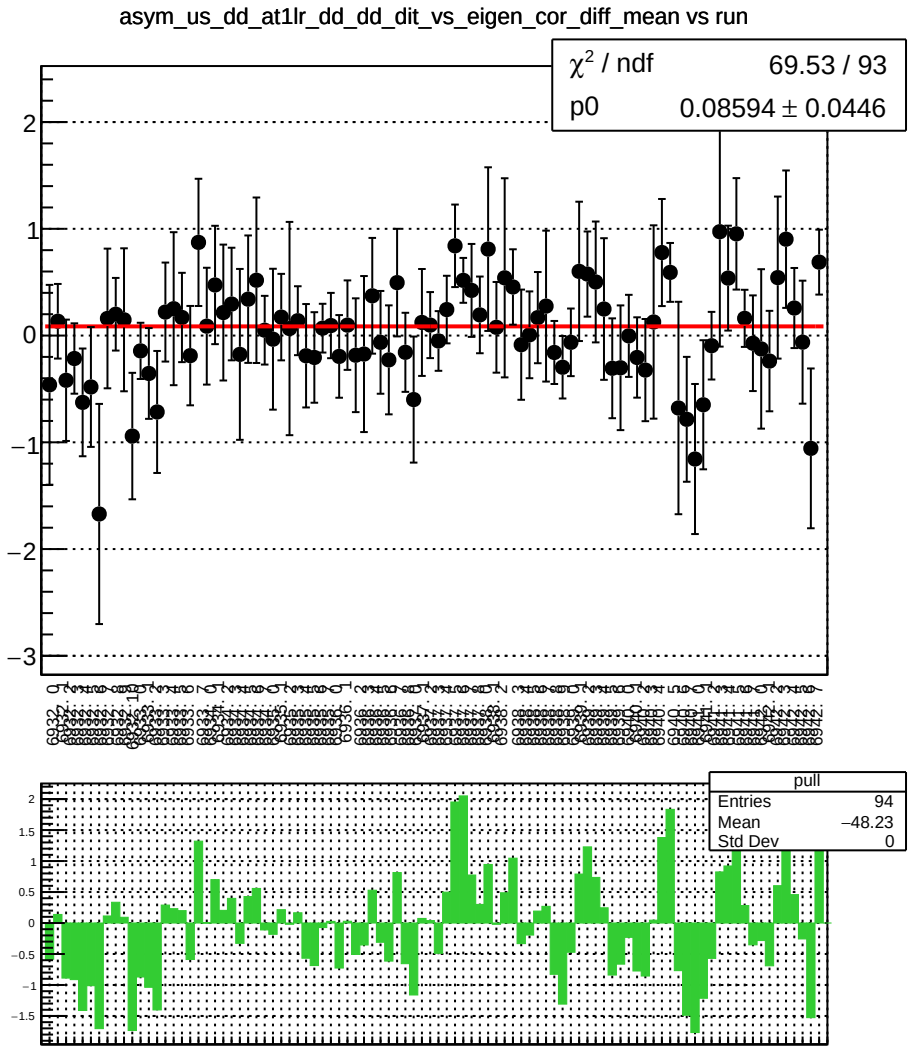

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73 / 93
p0 1.12e−14 ± 5.968e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 51.81
Std Dev 34.99
pull1D
Entries 94
Mean −0.1389
Std Dev 0.8703

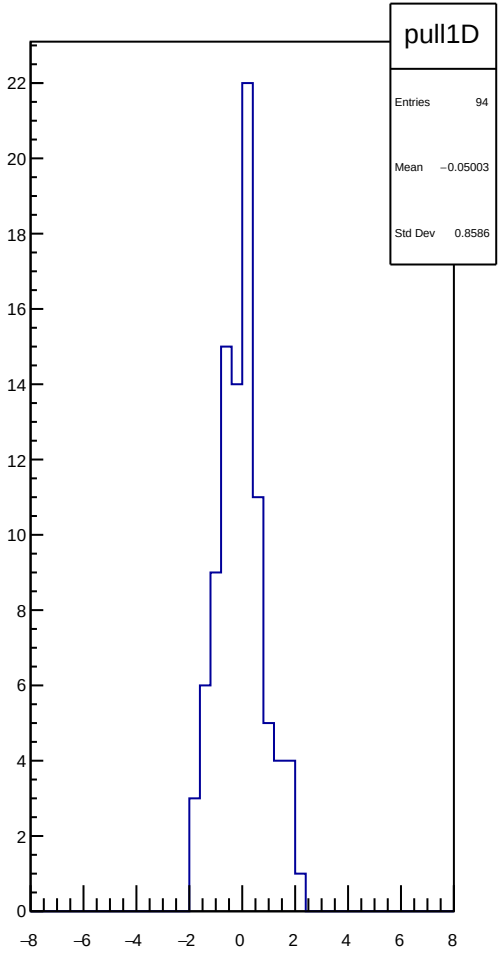

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.043e+06 / 93
p0 3.584e−11 ± 4.22e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

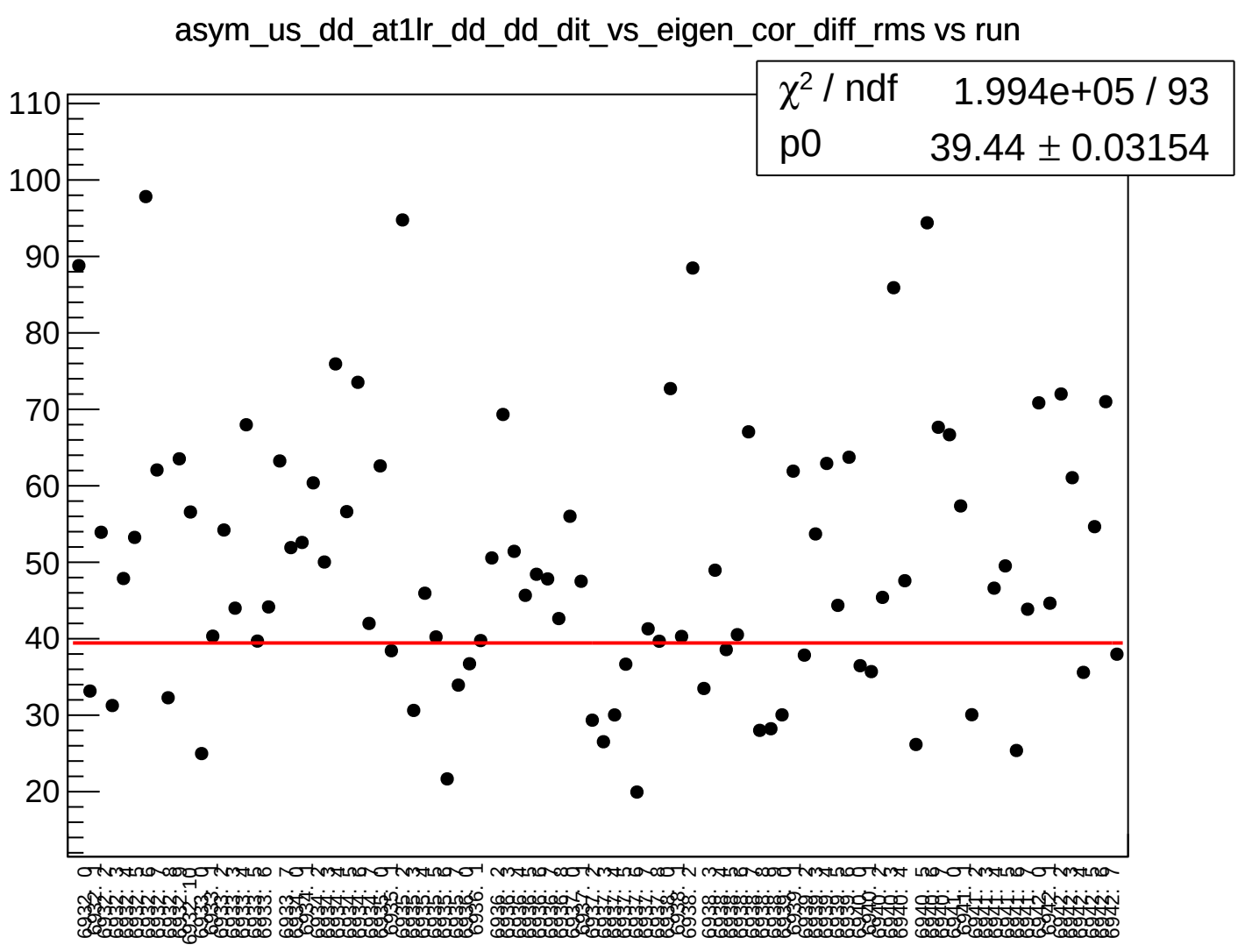

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.53 / 93
p0 0.08594 ± 0.0446
pull
Entries 94
Mean −48.23
Std Dev 0

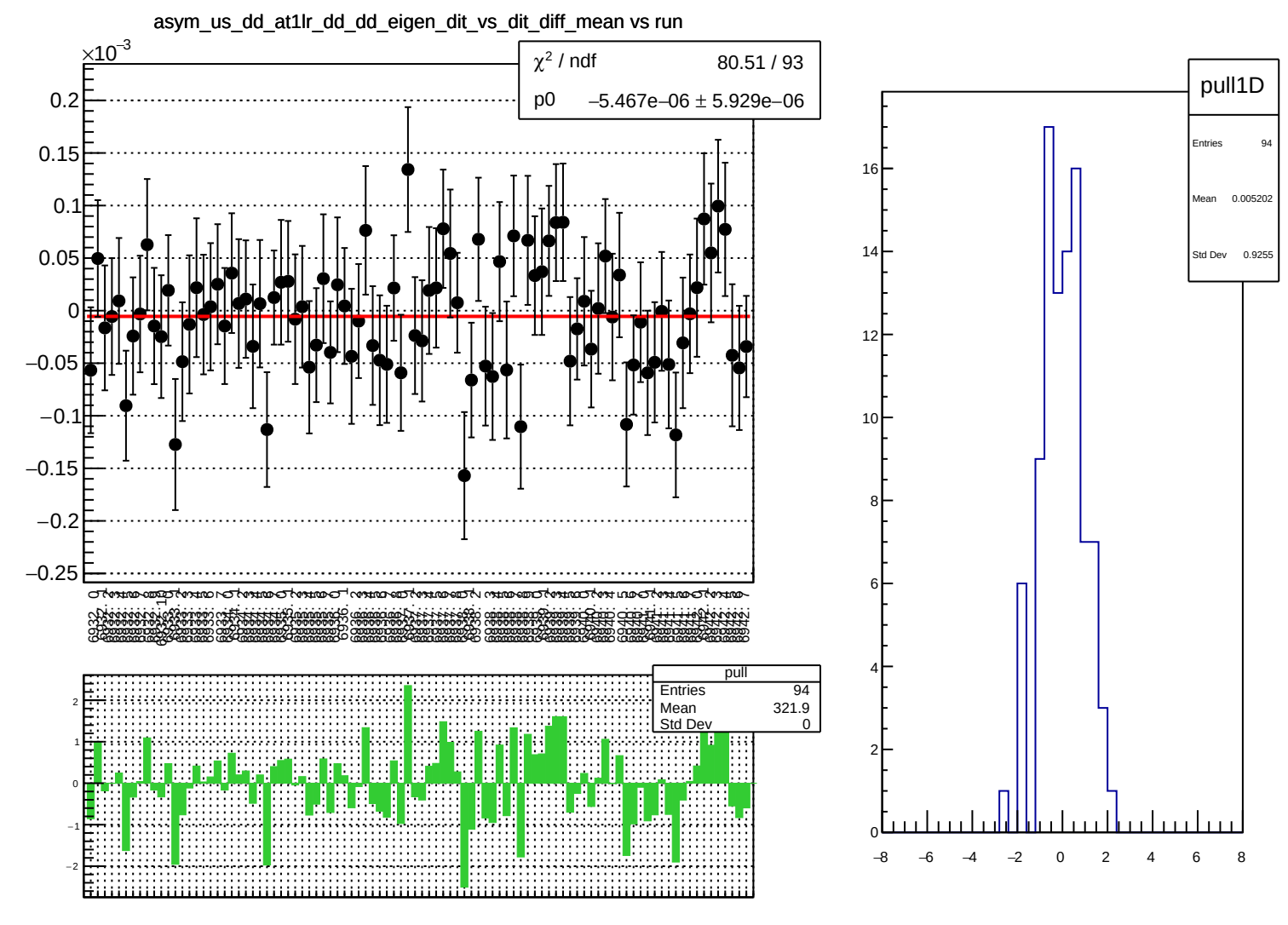

pull1D
Entries 94
Mean −0.05003
Std Dev 0.8586

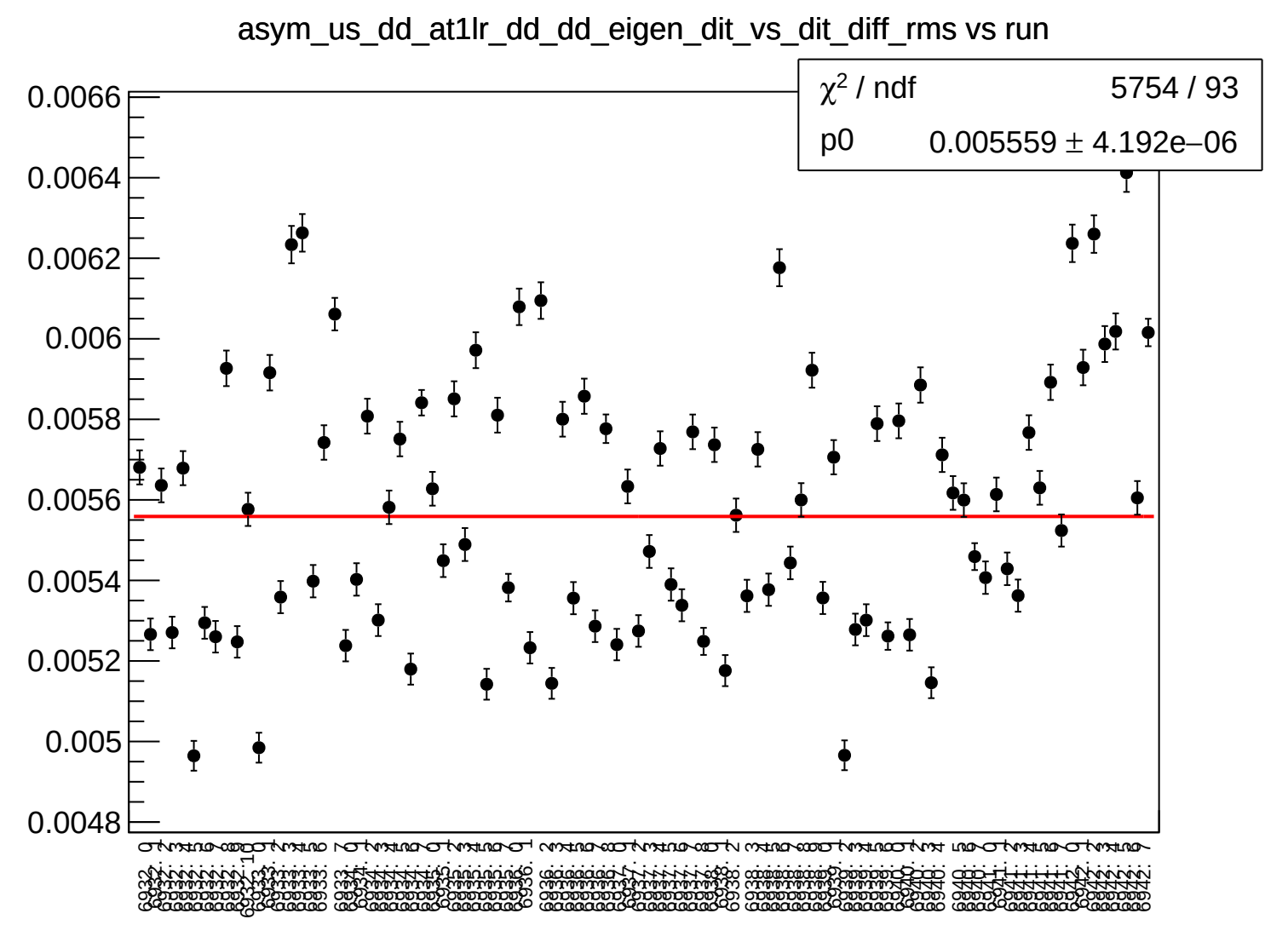

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 93
p0 39.44 ± 0.03154
110
100
90
80
70
60
50
40
30
20

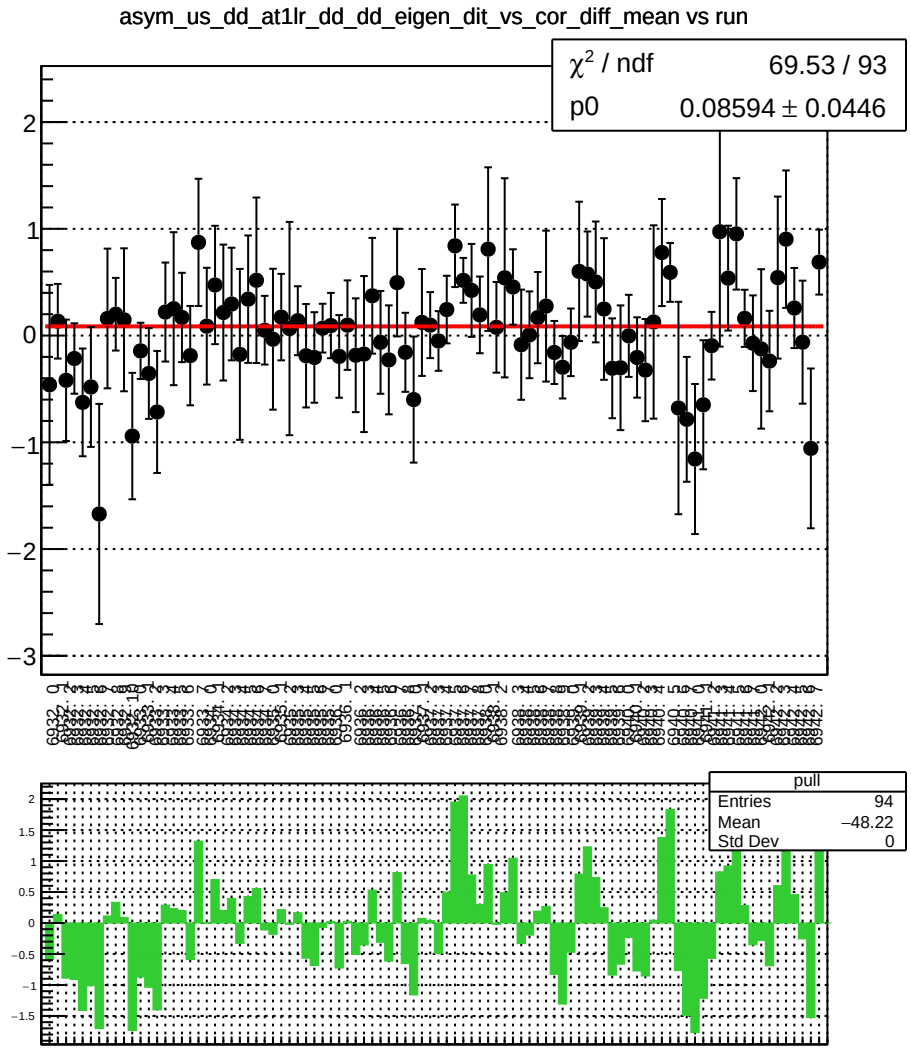

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.53 / 93
p0 0.08594 ± 0.0446
pull
Entries 94
Mean −48.23
Std Dev 0

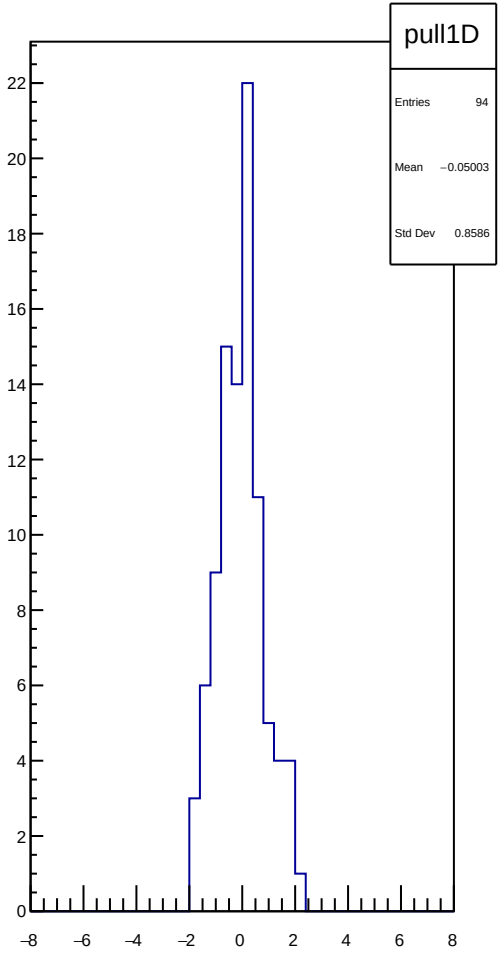

pull1D
Entries 94
Mean −0.05003
Std Dev 0.8586

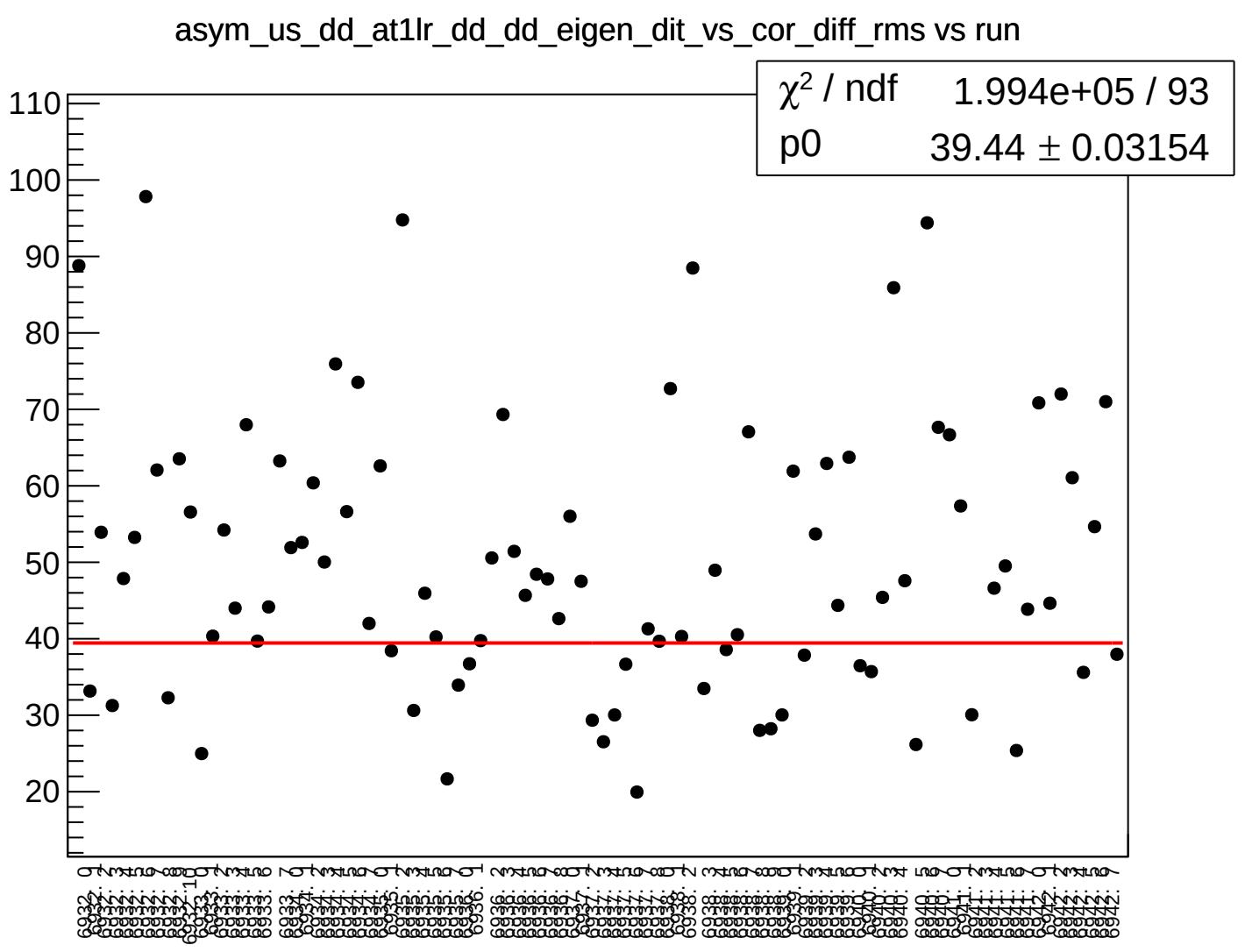

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 93
p0 39.44 ± 0.03154
110
100
90
80
70
60
50
40
30
20

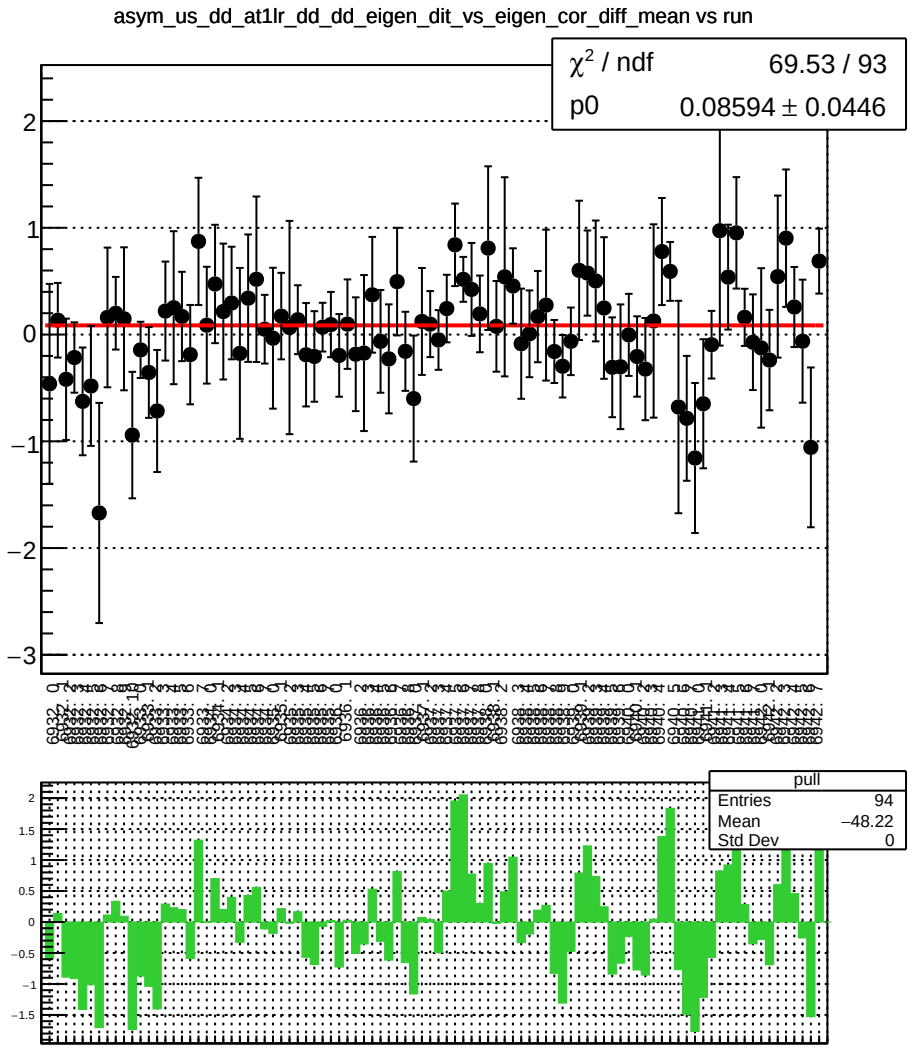

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.51 / 93
p0 −5.467e−06 ± 5.929e−06
pull
Entries 94
Mean 321.9
Std Dev 0
pull1D
Entries 94
Mean 0.005202
Std Dev 0.9255

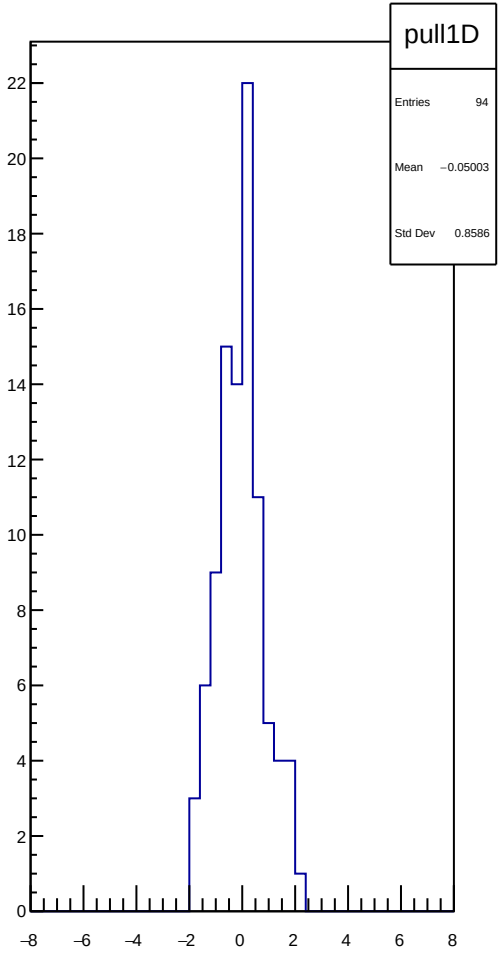

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5754 / 93
p0 0.005559 ± 4.192e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048

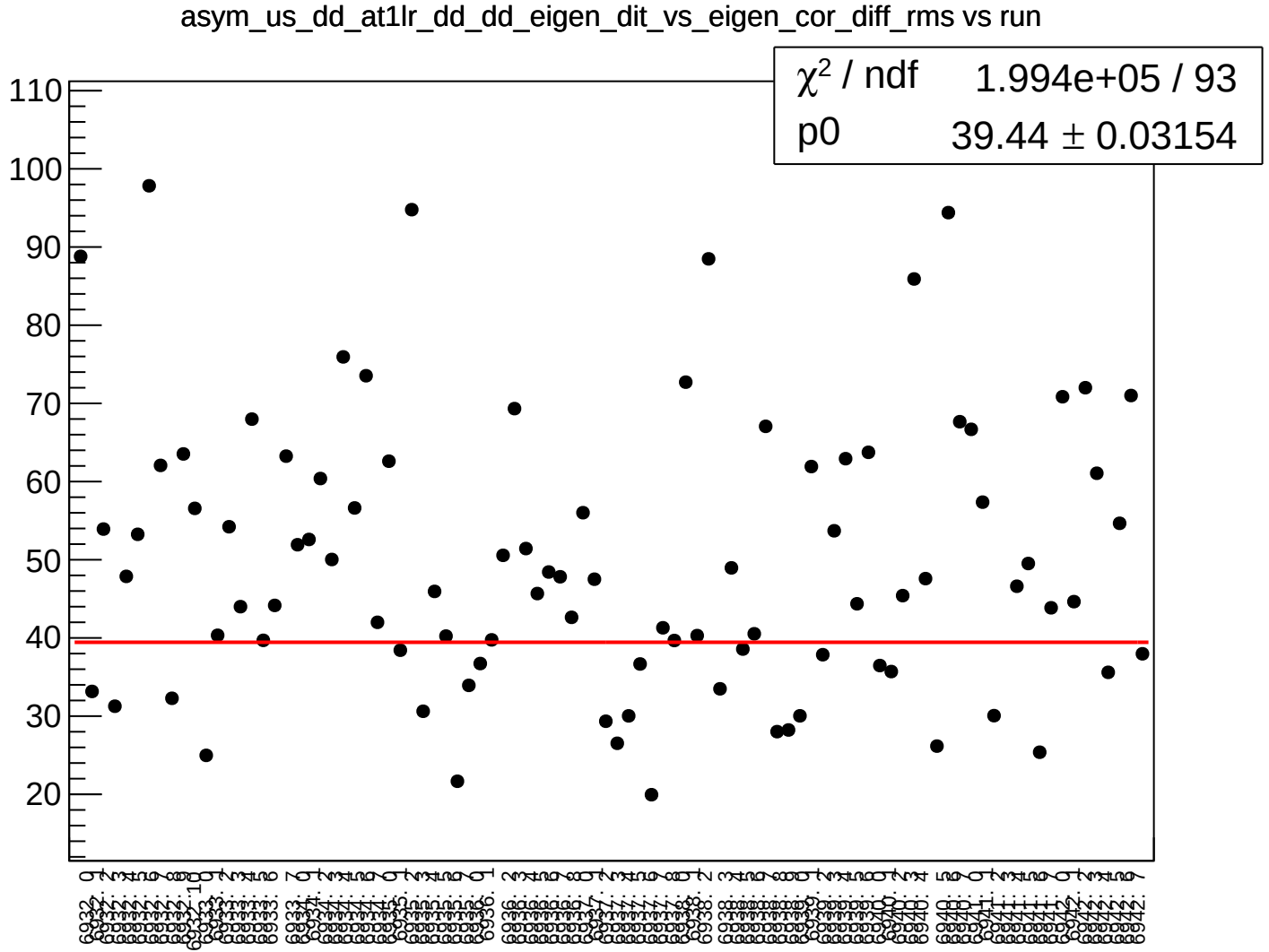

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.53 / 93
p0 0.08594 ± 0.0446
pull
Entries 94
Mean −48.22
Std Dev 0

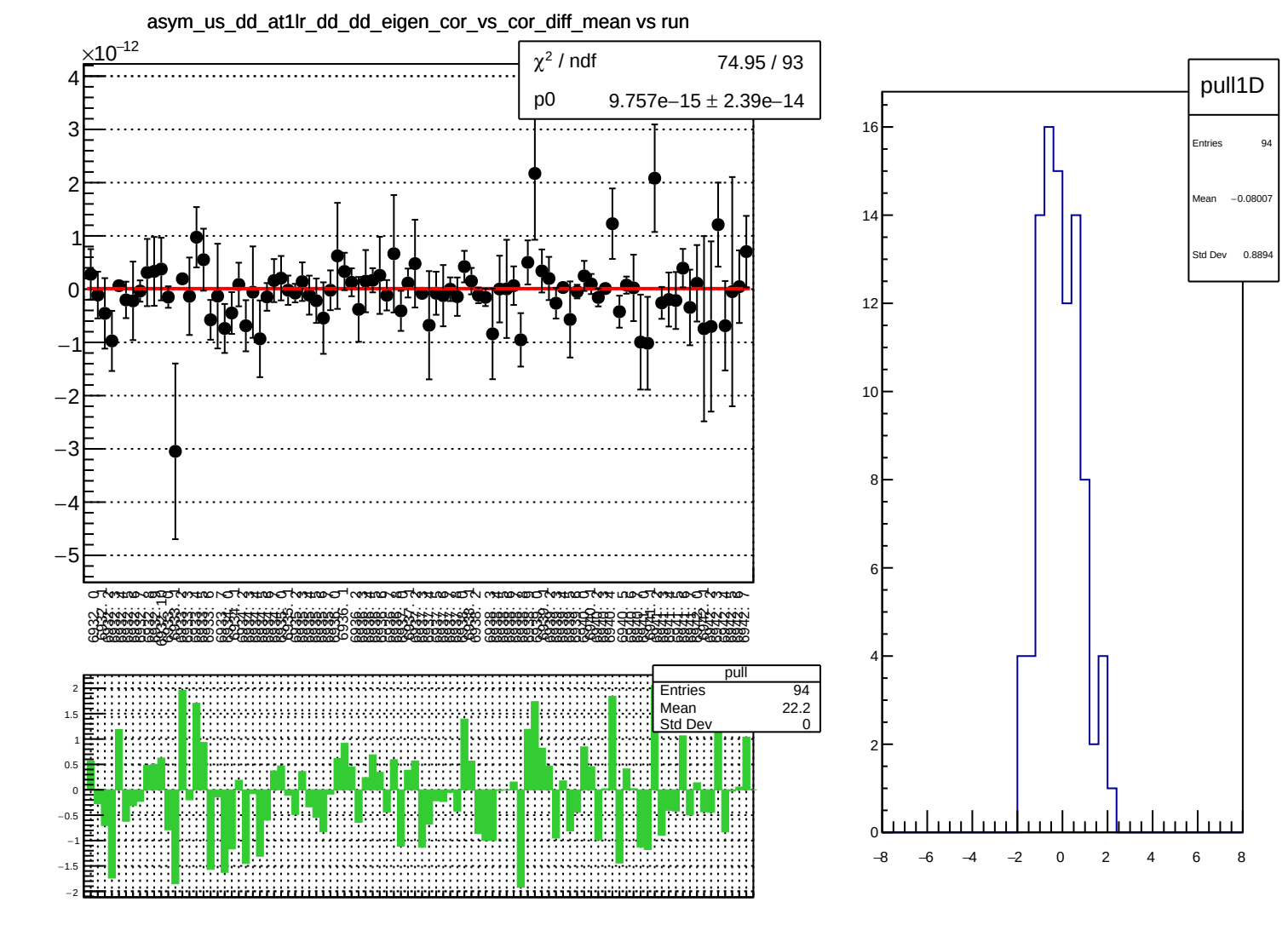

pull1D
Entries 94
Mean −0.05003
Std Dev 0.8586

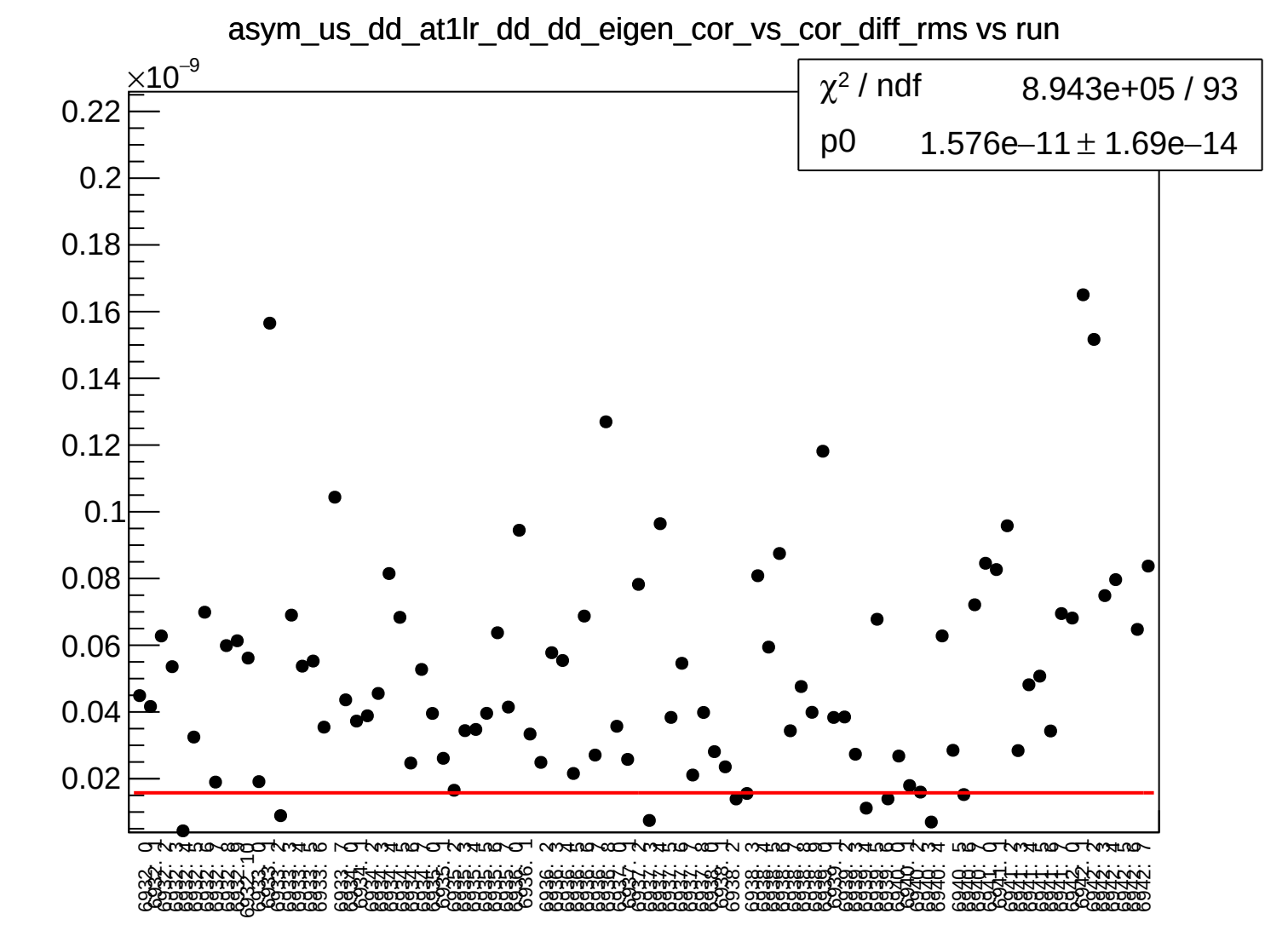

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 93
p0 39.44 ± 0.03154
110
100
90
80
70
60
50
40
30
20

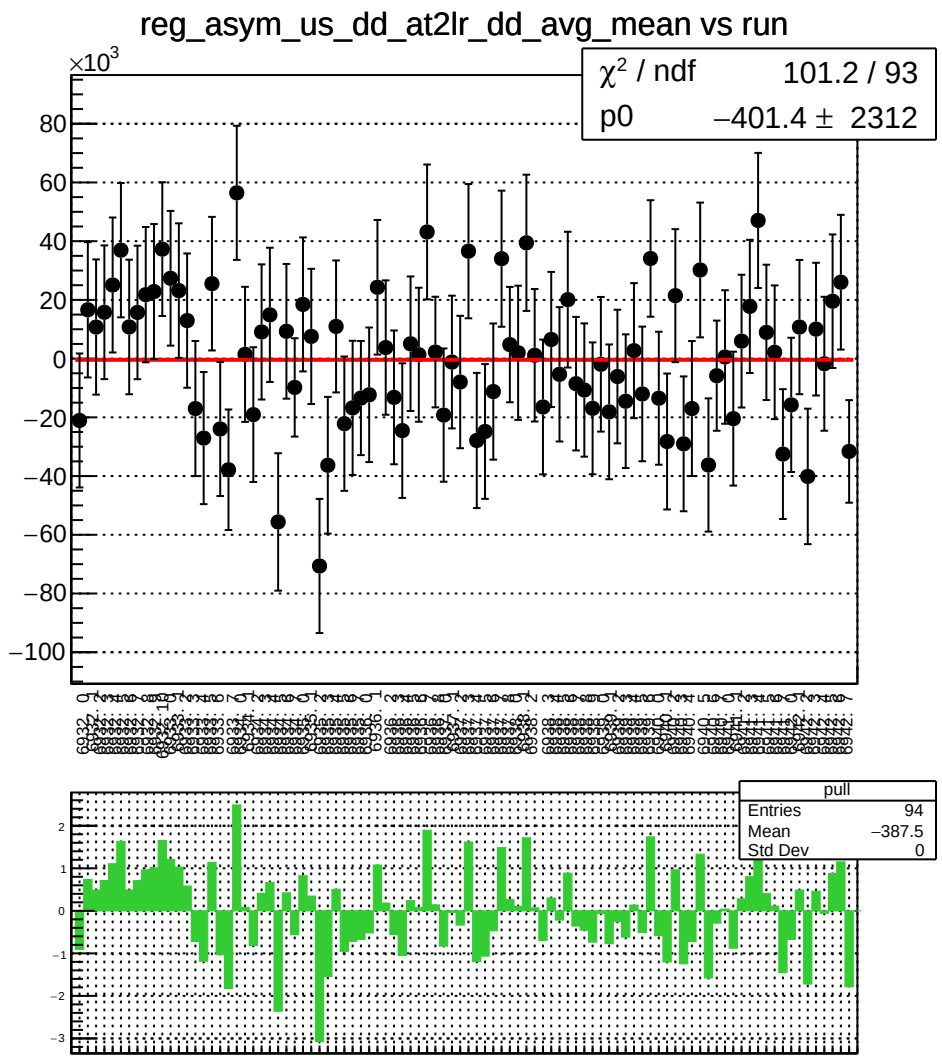

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.53 / 93
p0 0.08594 ± 0.0446
pull
Entries 94
Mean −48.22
Std Dev 0

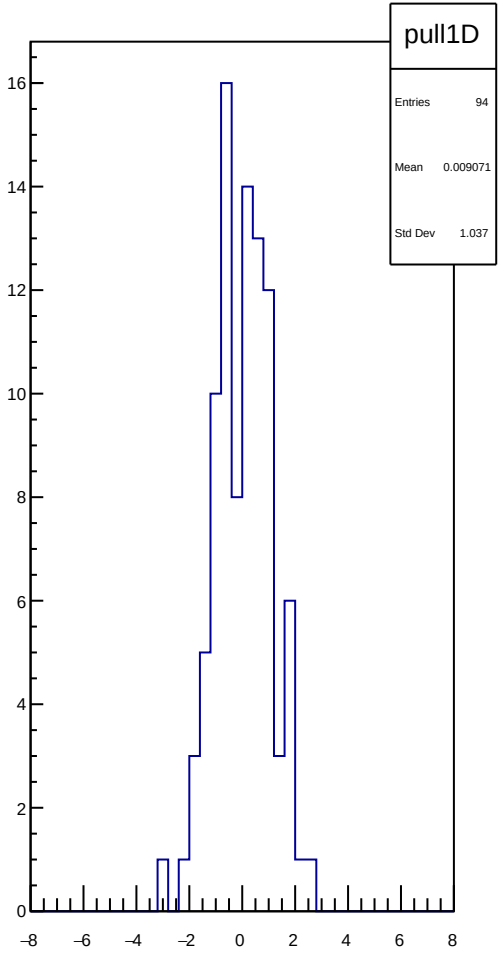

pull1D
Entries 94
Mean −0.05003
Std Dev 0.8586

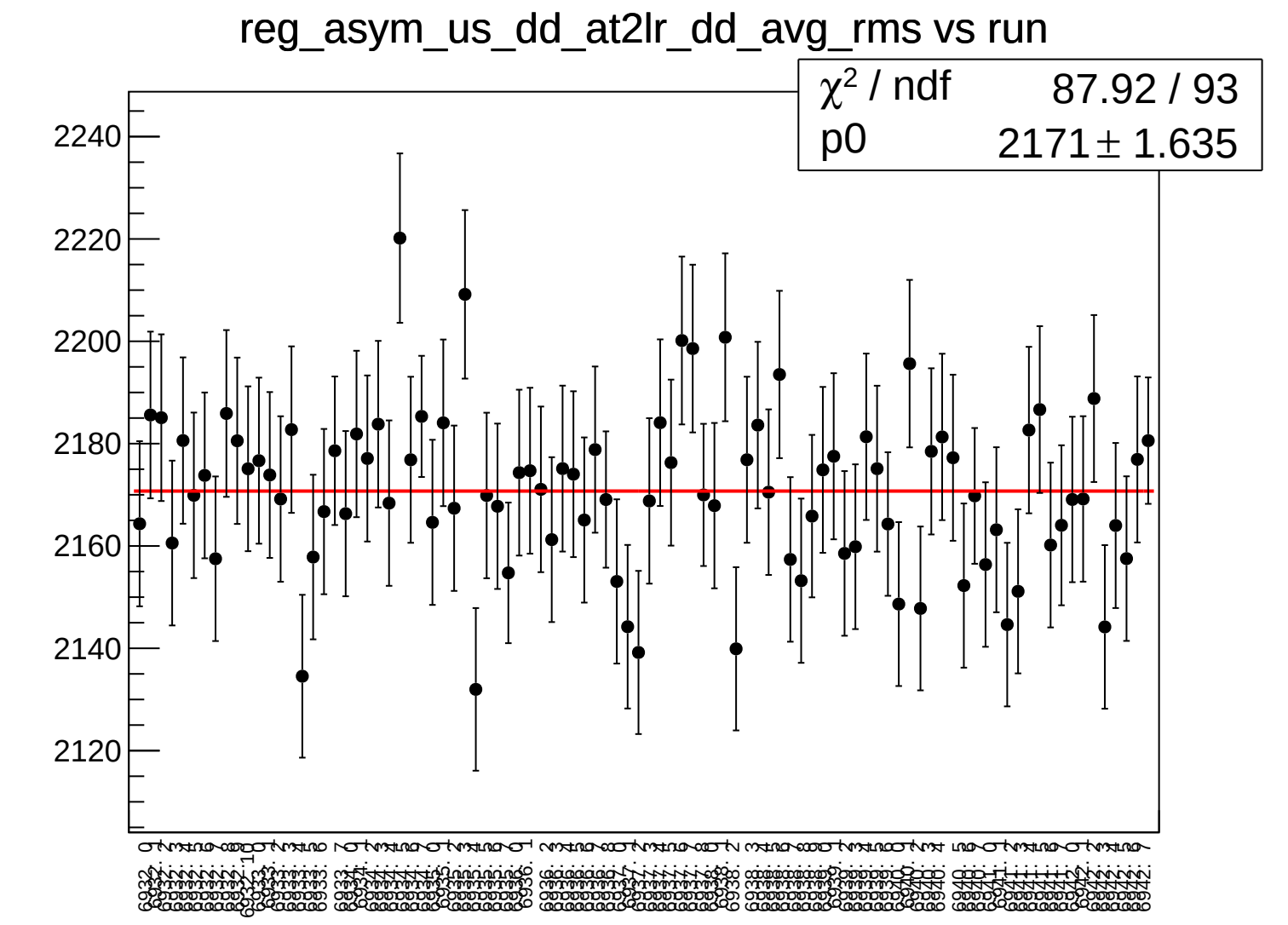

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.994e+05 / 93
p0 39.44 ± 0.03154
110
100
90
80
70
60
50
40
30
20

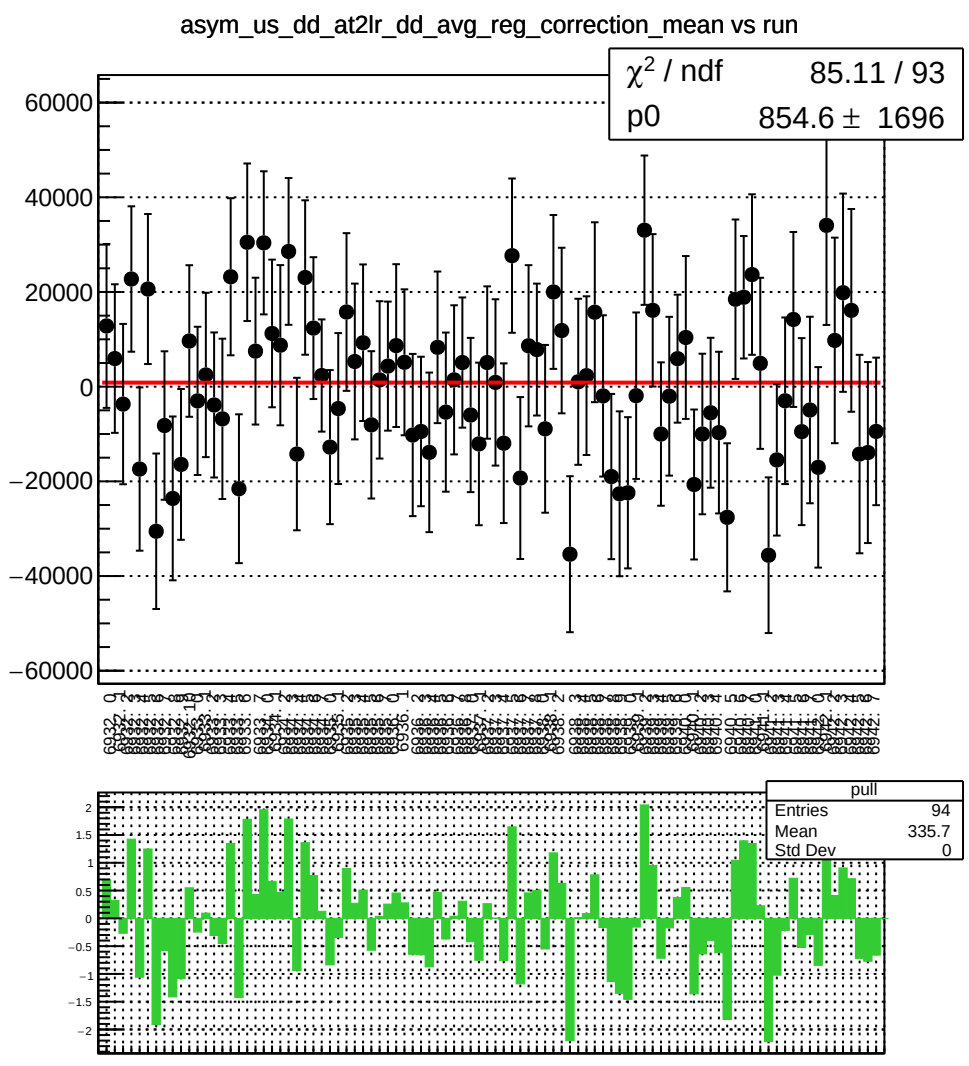

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.95 / 93
p0 9.757e−15 ± 2.39e−14
pull
Entries 94
Mean 22.2
Std Dev 0
pull1D
Entries 94
Mean −0.08007
Std Dev 0.8894

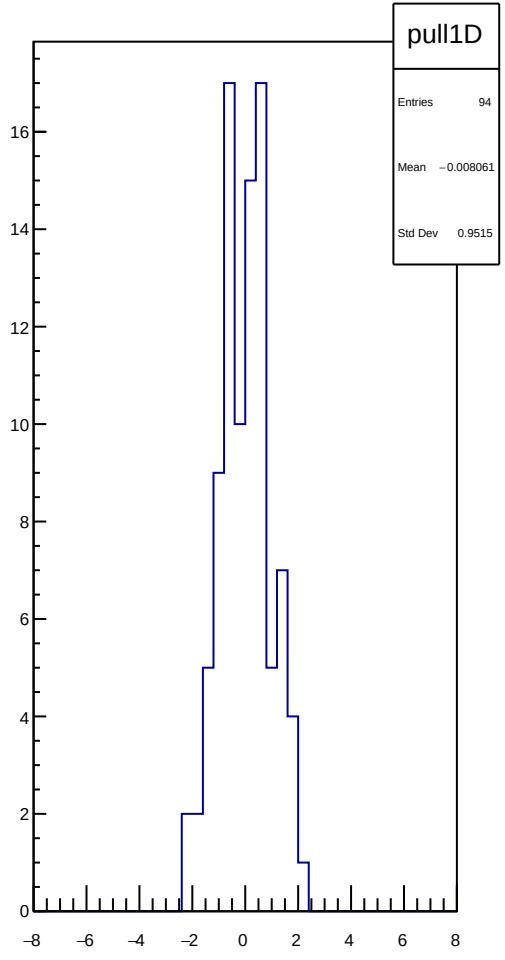

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.943e+05 / 93
p0 1.576e−11 ± 1.69e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

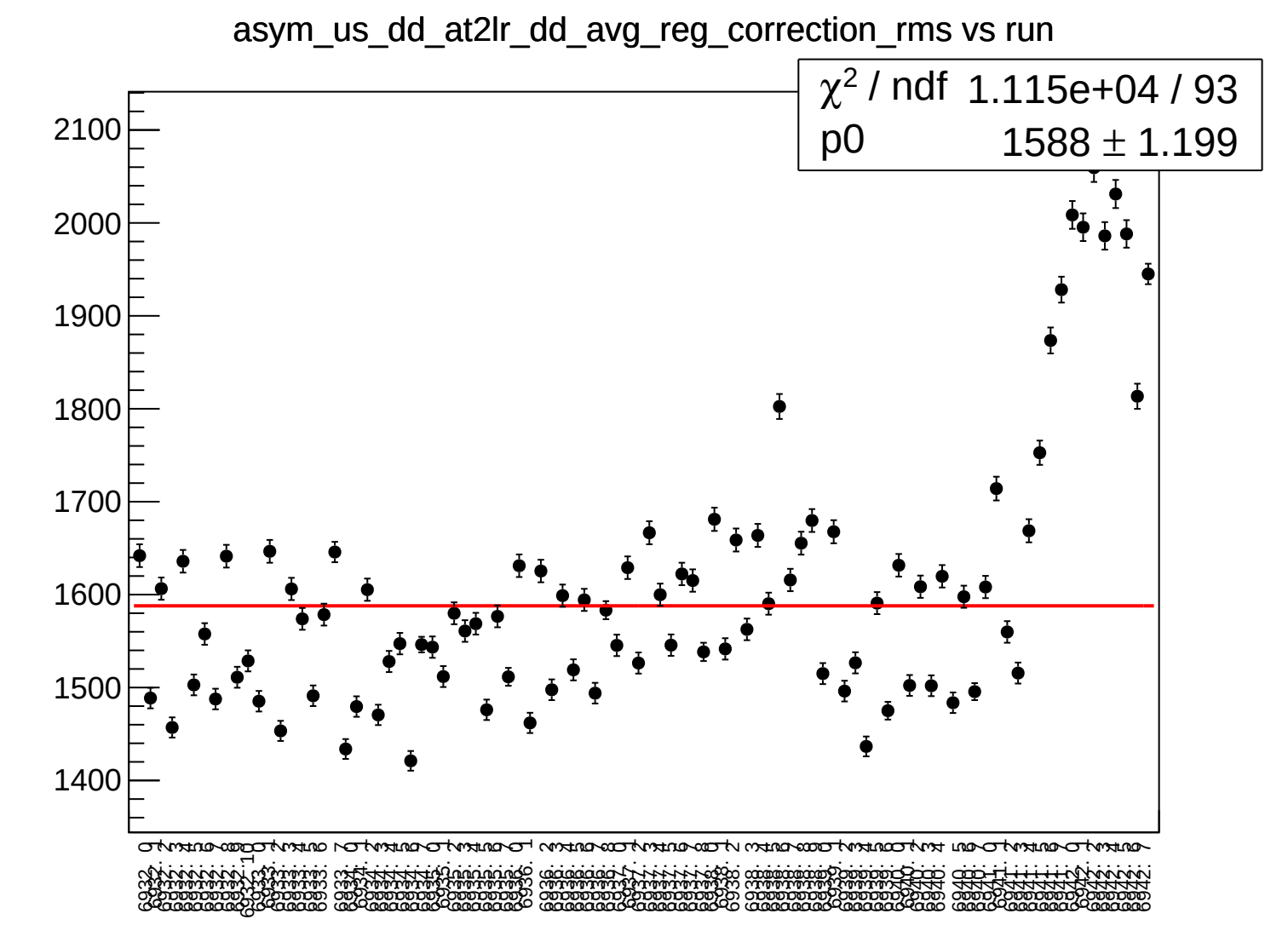

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.2 / 93
p0 −401.4 ± 2312
pull
Entries 94
Mean −387.5
Std Dev 0

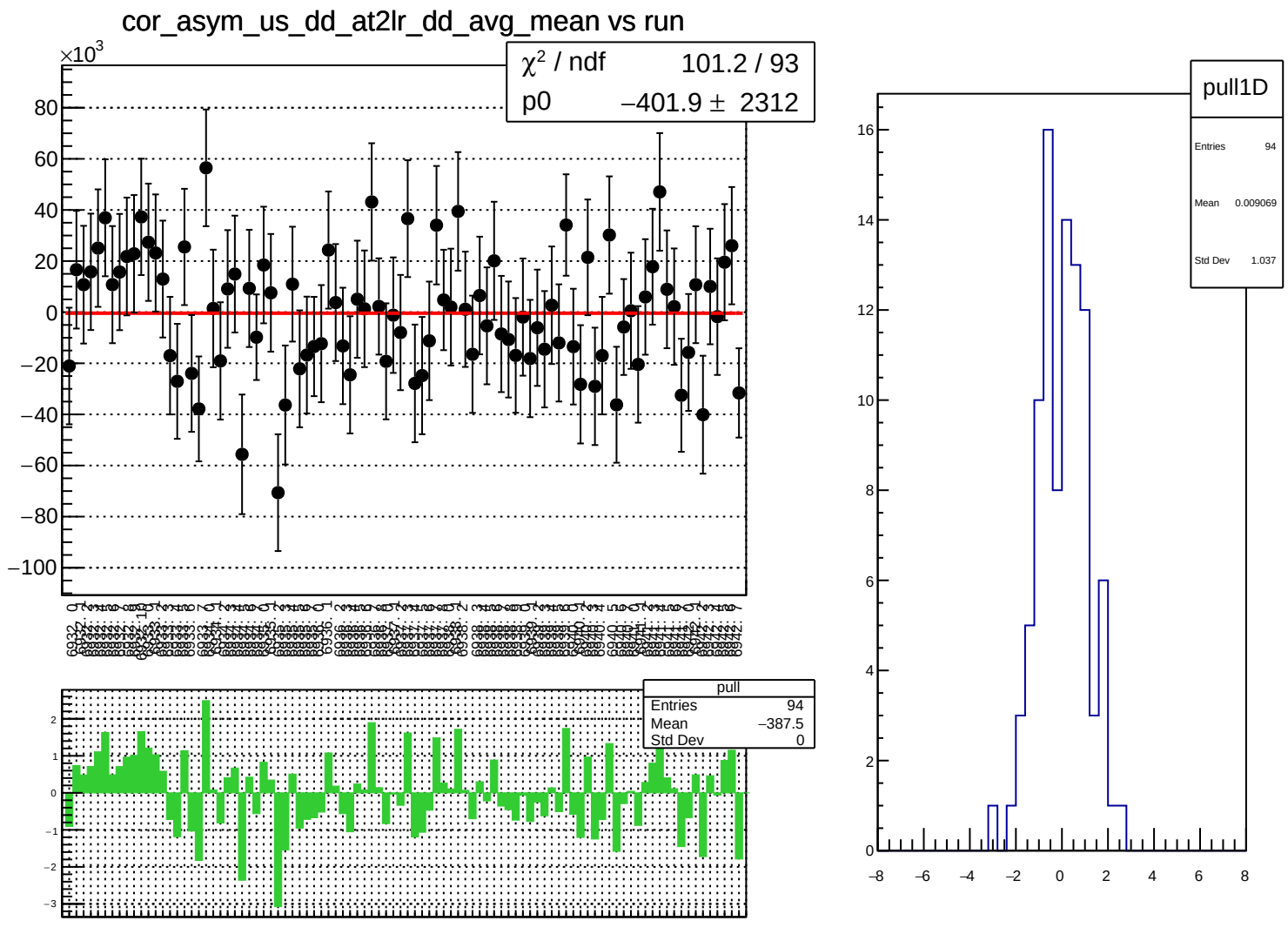

pull1D
Entries 94
Mean 0.009071
Std Dev 1.037

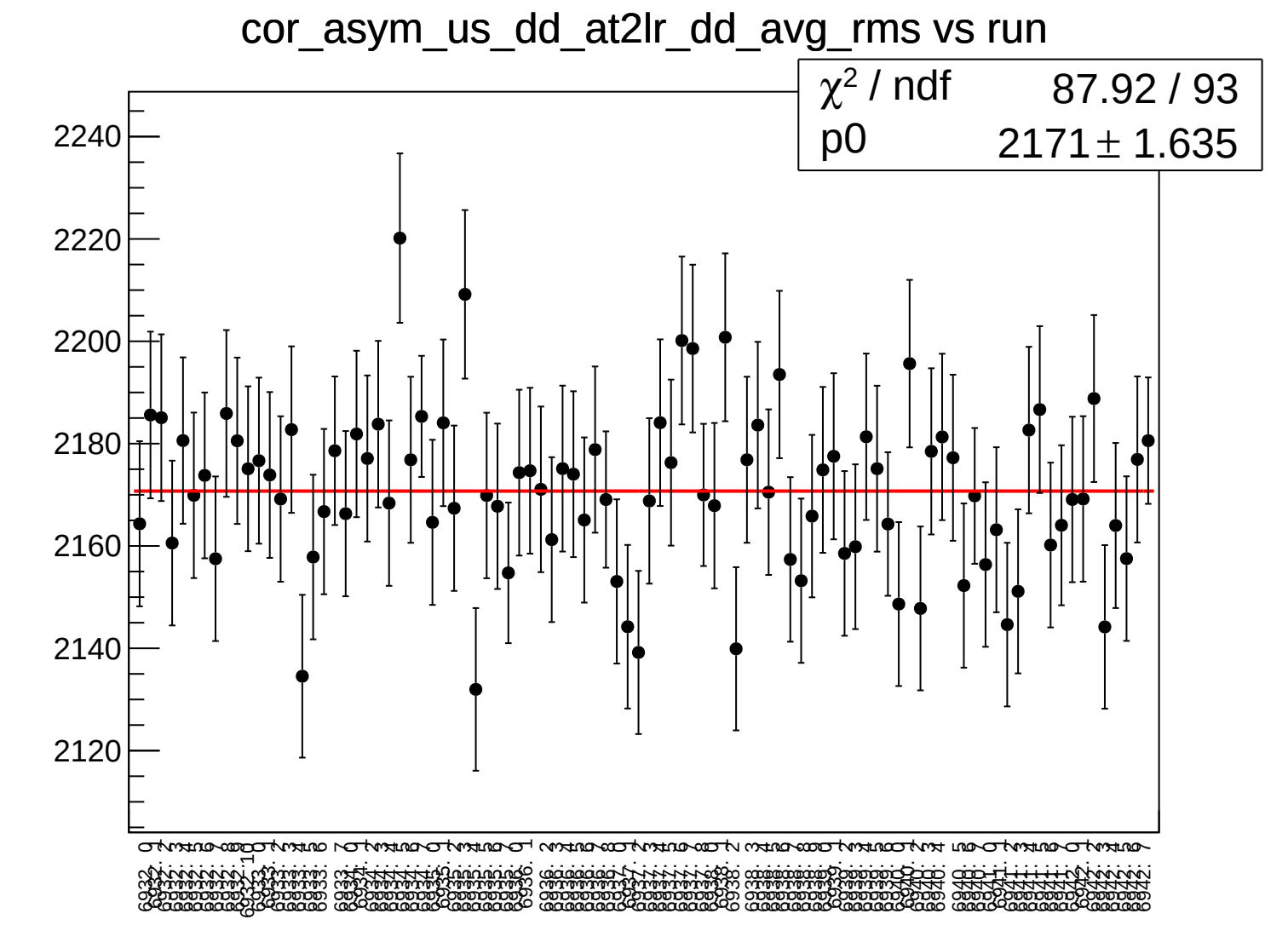

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.92 / 93
p0 2171 ± 1.635
2240
2220
2200
2180
2160
2140
2120

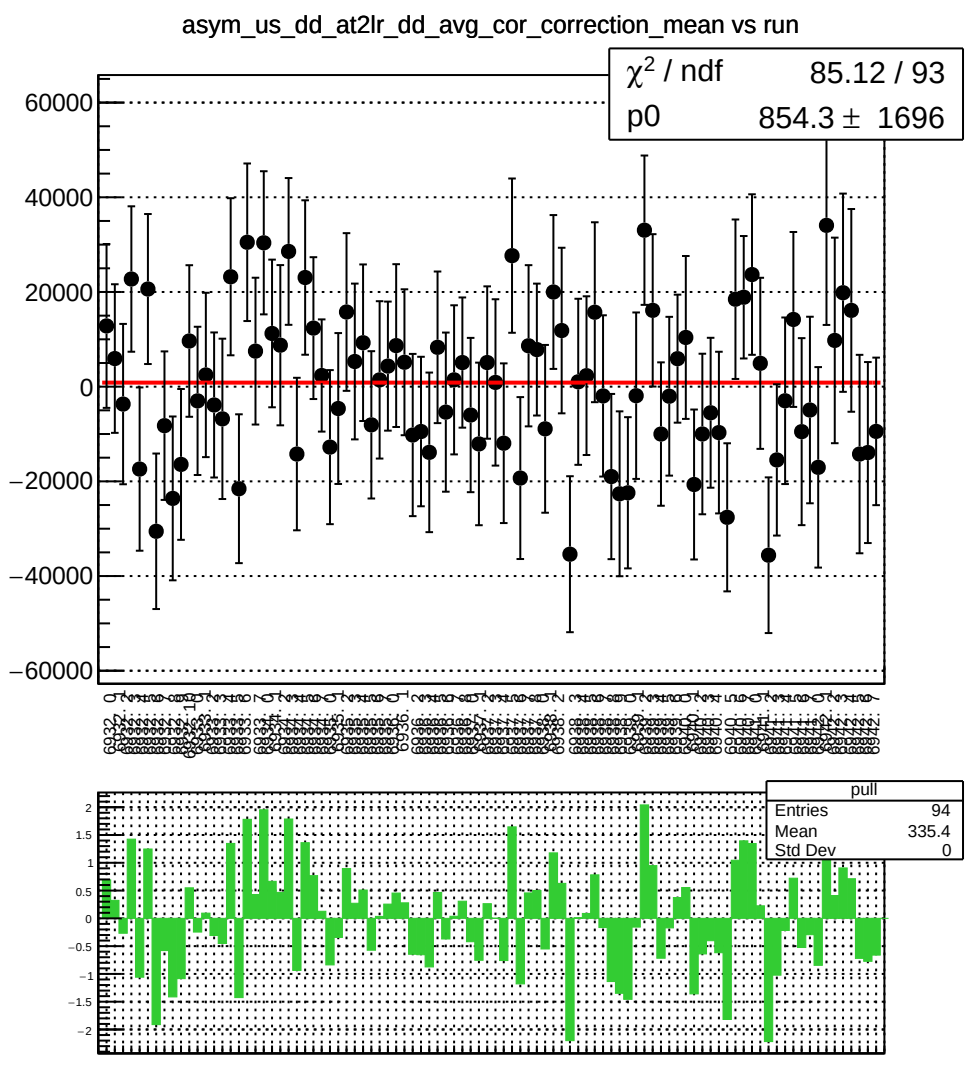

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 85.11 / 93
p0 854.6 ± 1696
pull
Entries 94
Mean 335.7
Std Dev 0

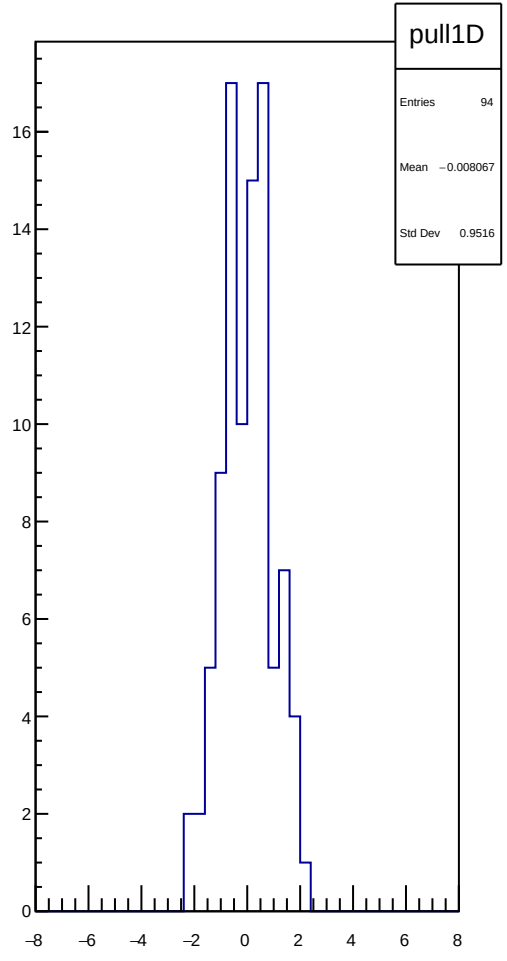

pull1D
Entries 94
Mean −0.008061
Std Dev 0.9515

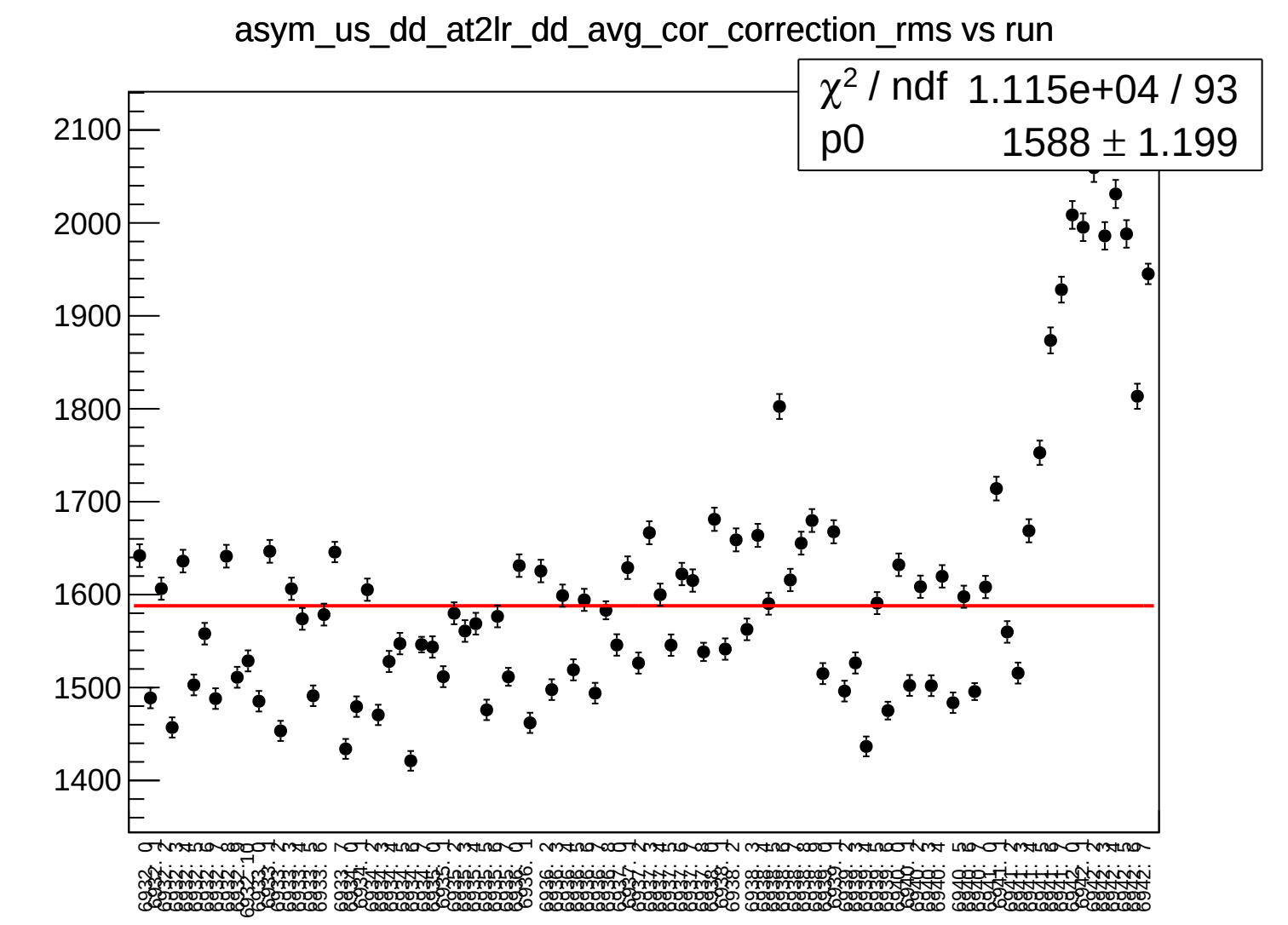

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.115e+04 / 93
p0 1588 ± 1.199
2100
2000
1900
1800
1700
1600
1500
1400

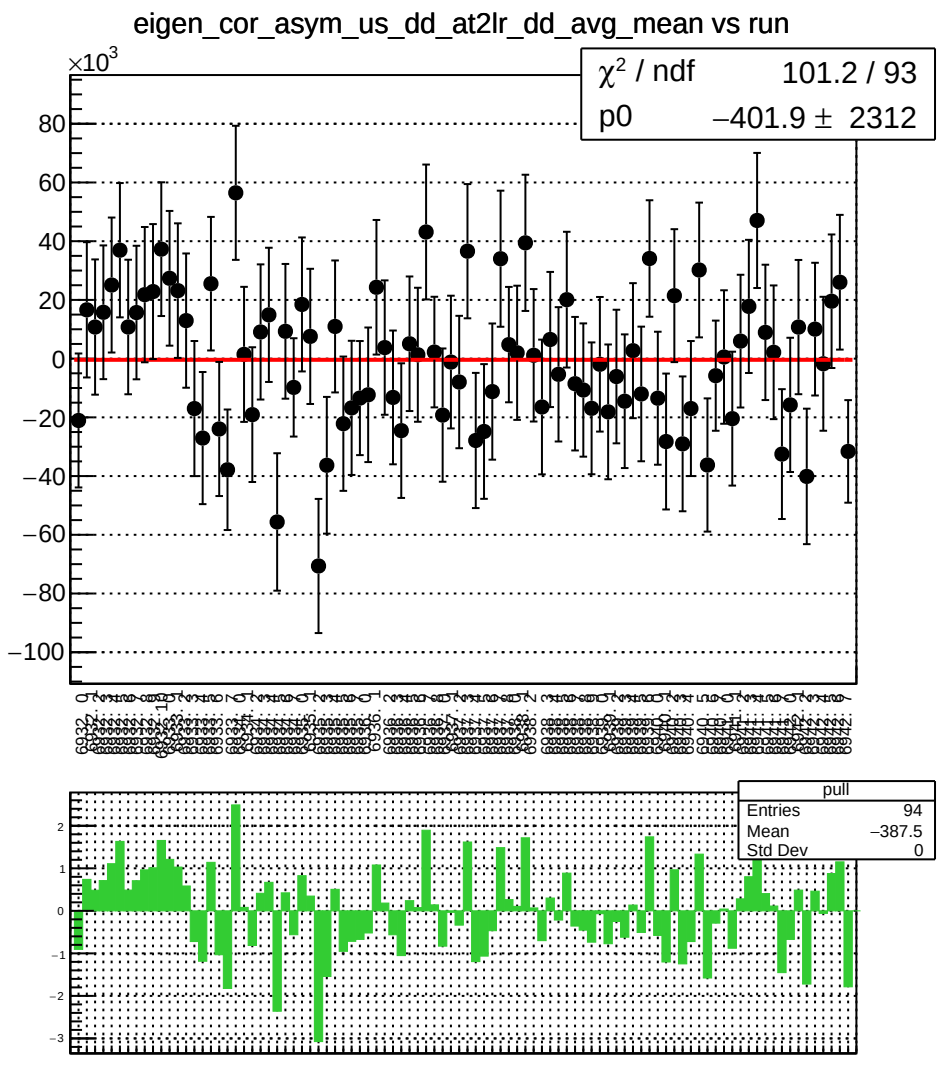

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.2 / 93
p0 −401.9 ± 2312
pull
Entries 94
Mean −387.5
Std Dev 0
pull1D
Entries 94
Mean 0.009069
Std Dev 1.037

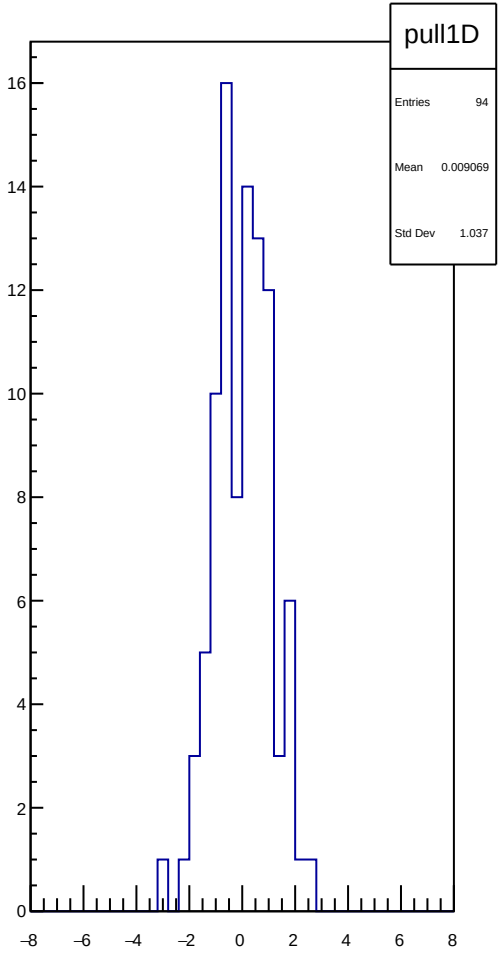

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 87.92 / 93
p0 2171 ± 1.635
2240
2220
2200
2180
2160
2140
2120

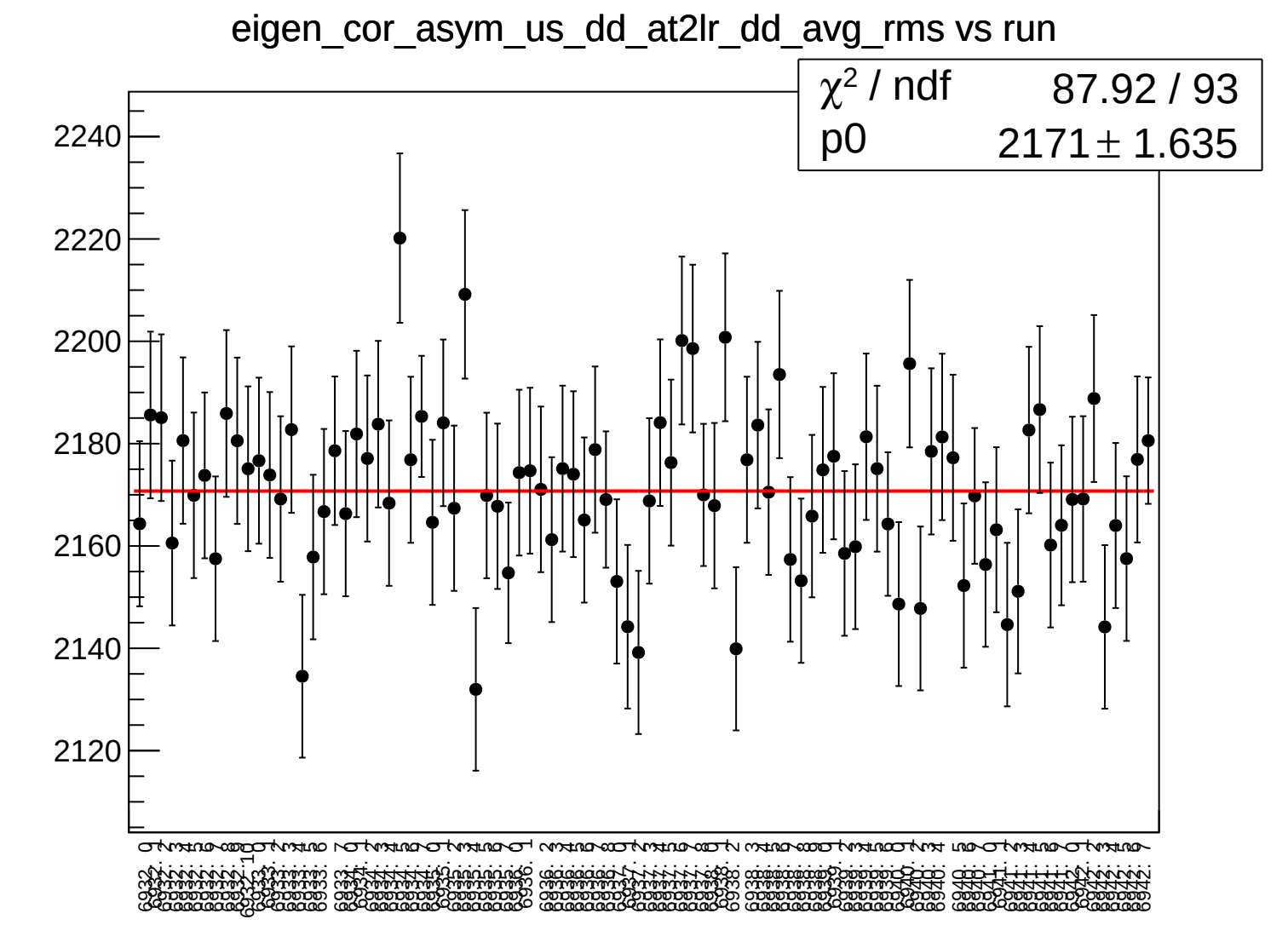

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 85.12 / 93
p0 854.3 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 335.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

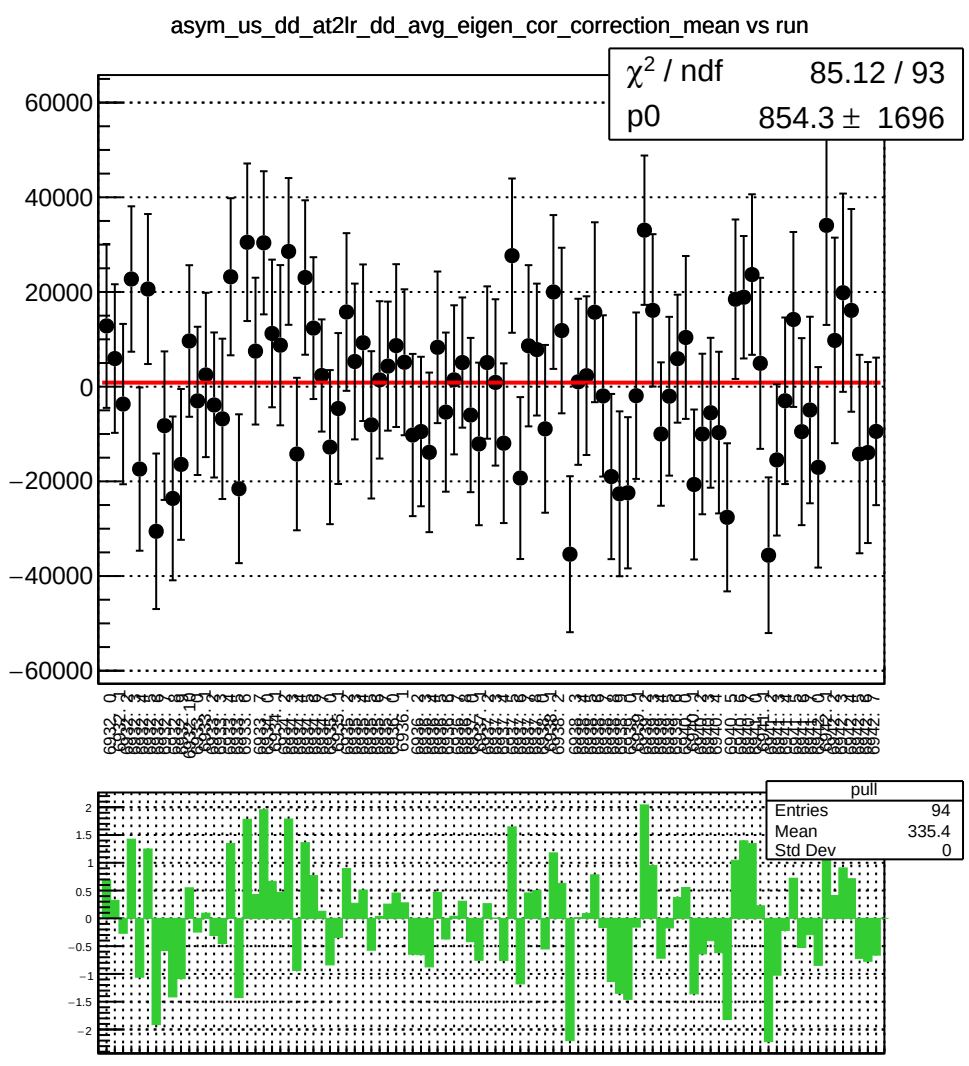

pull1D
Entries 94
Mean −0.008067
Std Dev 0.9516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

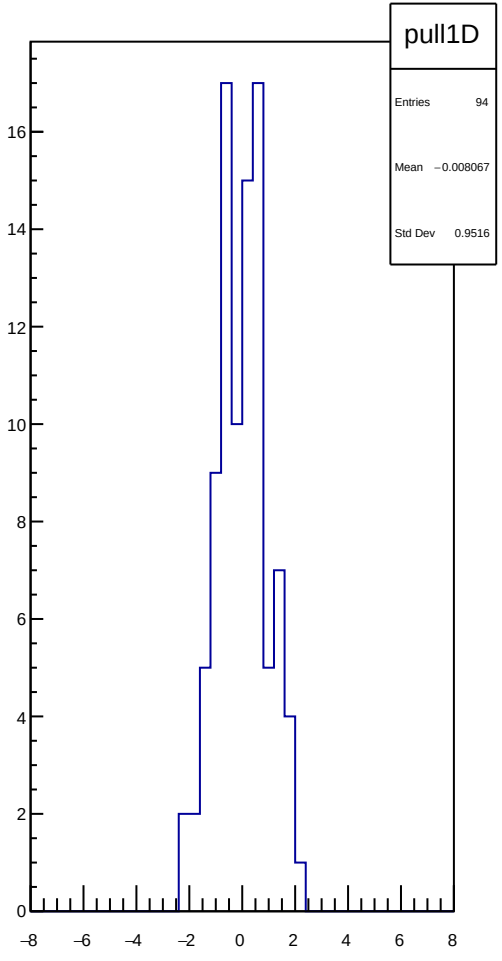

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 93
p0 1588 ± 1.199
2100
2000
1900
1800
1700
1600
1500
1400

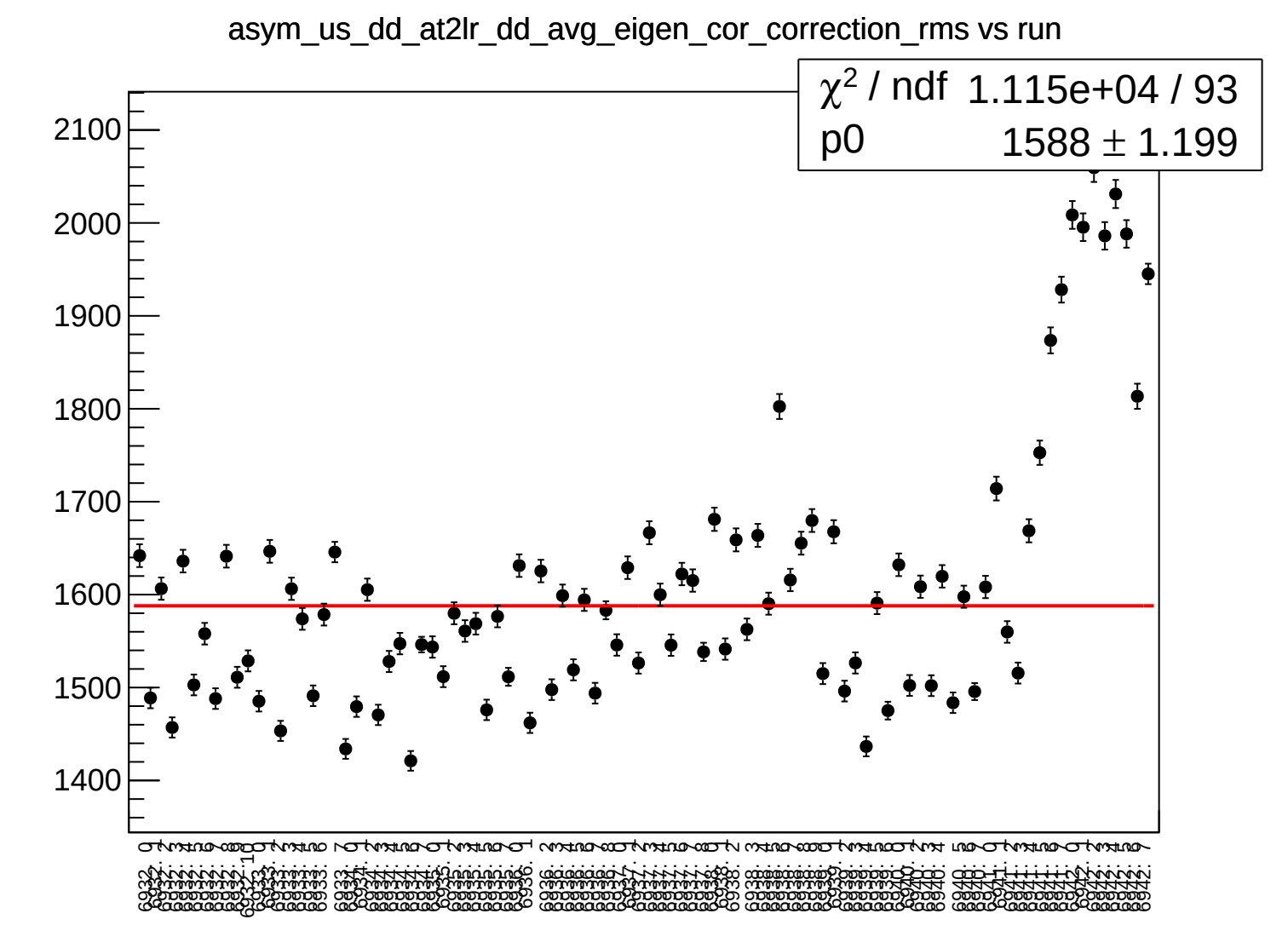

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 101.2 / 93
p0 −401.9 ± 2312
pull
Entries 94
Mean −387.5
Std Dev 0

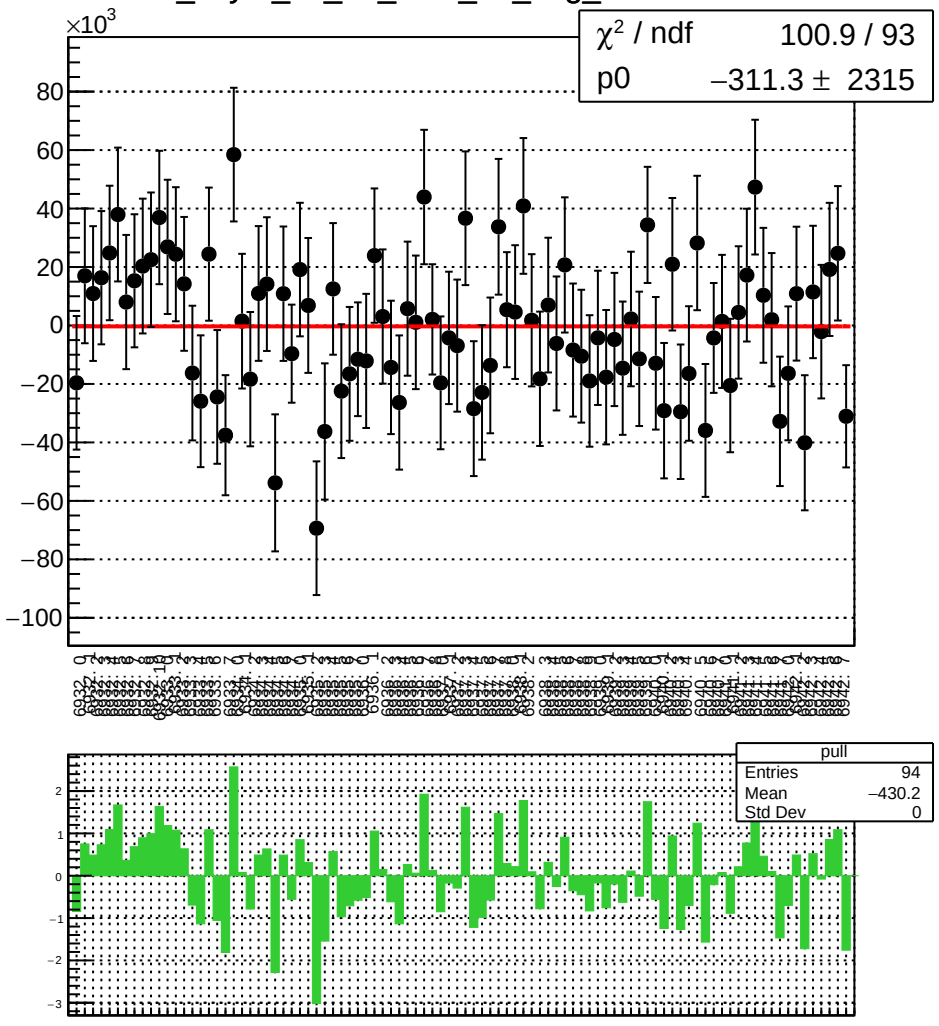

pull1D
Entries 94
Mean 0.009069
Std Dev 1.037

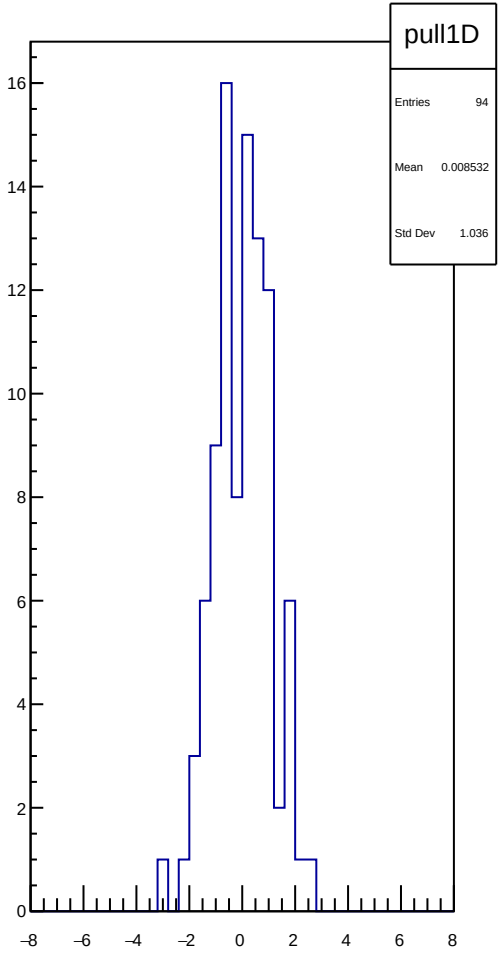

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 87.92 / 93
p0 2171 ± 1.635
2240
2220
2200
2180
2160
2140
2120

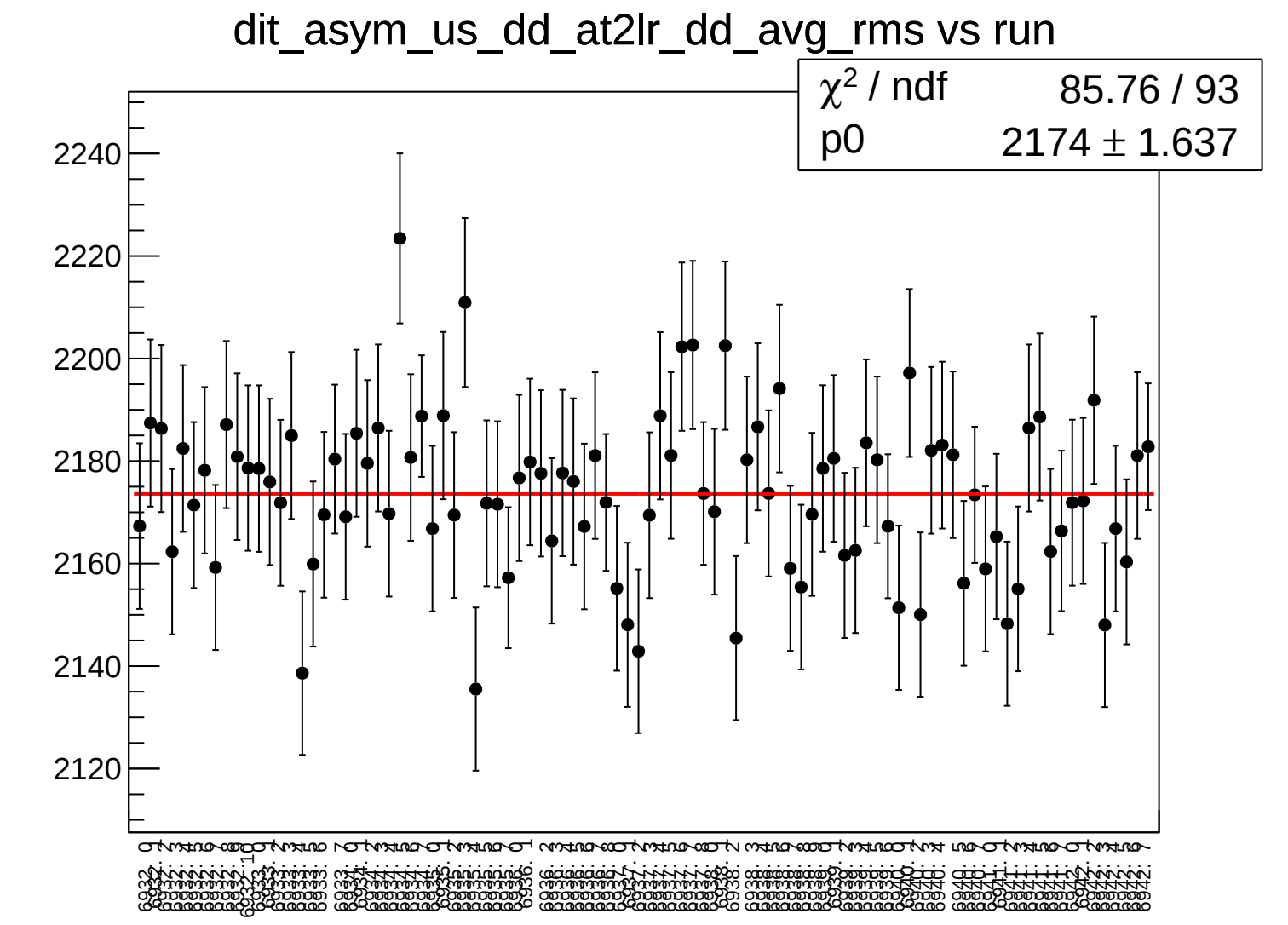

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.12 / 93
p0 854.3 ± 1696
pull
Entries 94
Mean 335.4
Std Dev 0

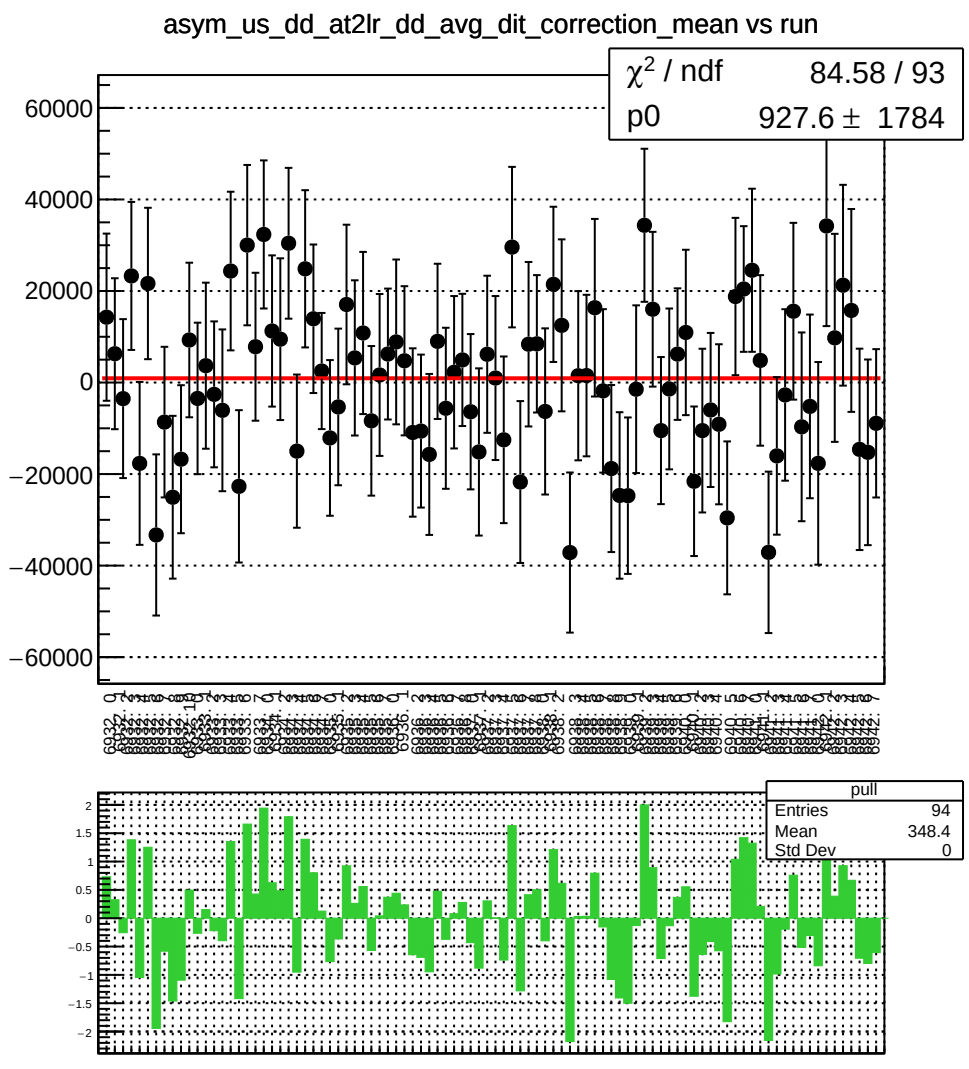

pull1D
Entries 94
Mean −0.008067
Std Dev 0.9516

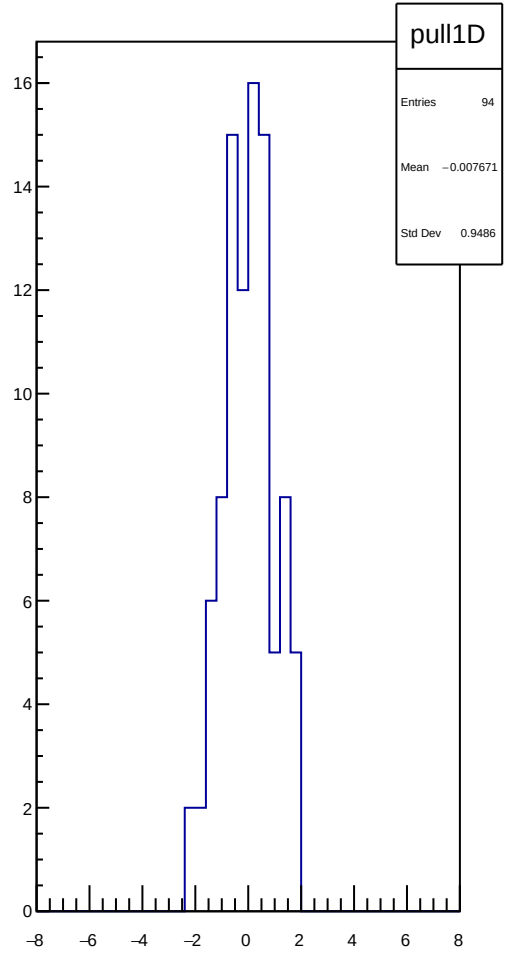

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.115e+04 / 93
p0 1588 ± 1.199
2100
2000
1900
1800
1700
1600
1500
1400

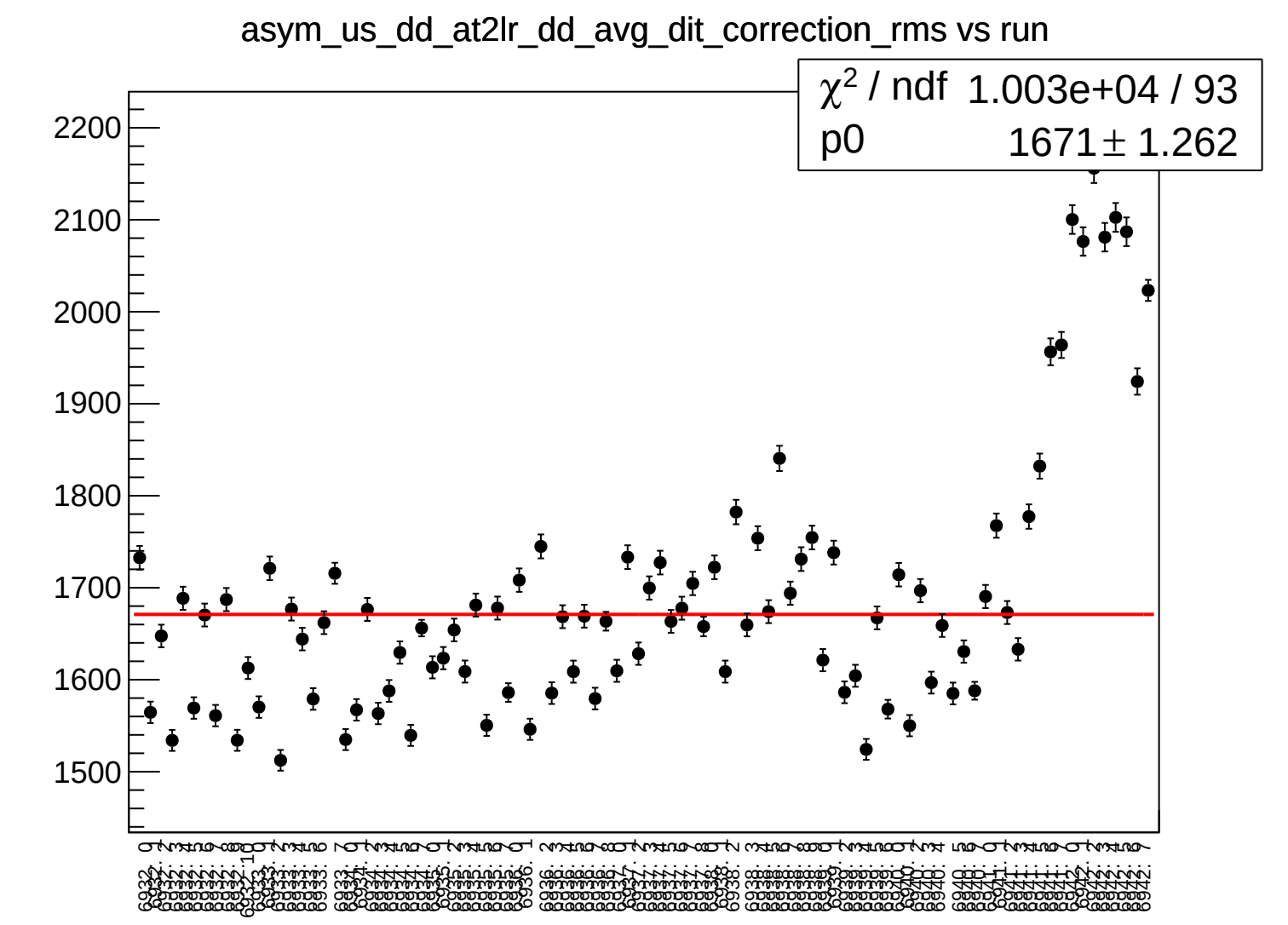

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 100.9 / 93
p0 −311.3 ± 2315
pull
Entries 94
Mean −430.2
Std Dev 0

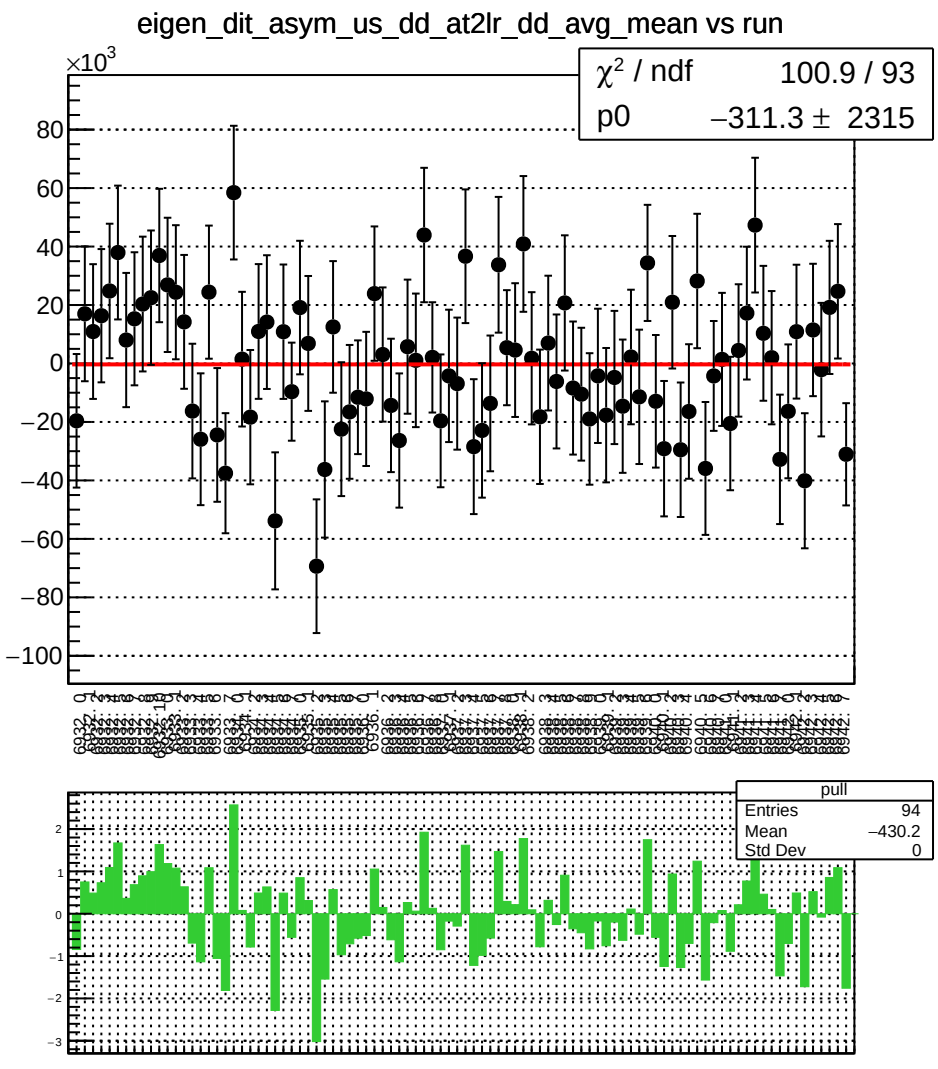

pull1D
Entries 94
Mean 0.008532
Std Dev 1.036

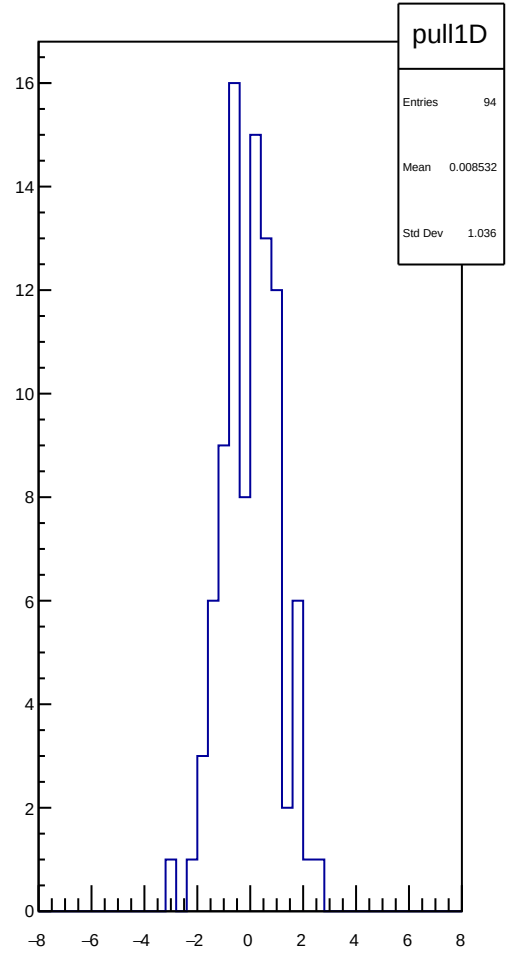

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 85.76 / 93
p0 2174 ± 1.637
2240
2220
2200
2180
2160
2140
2120

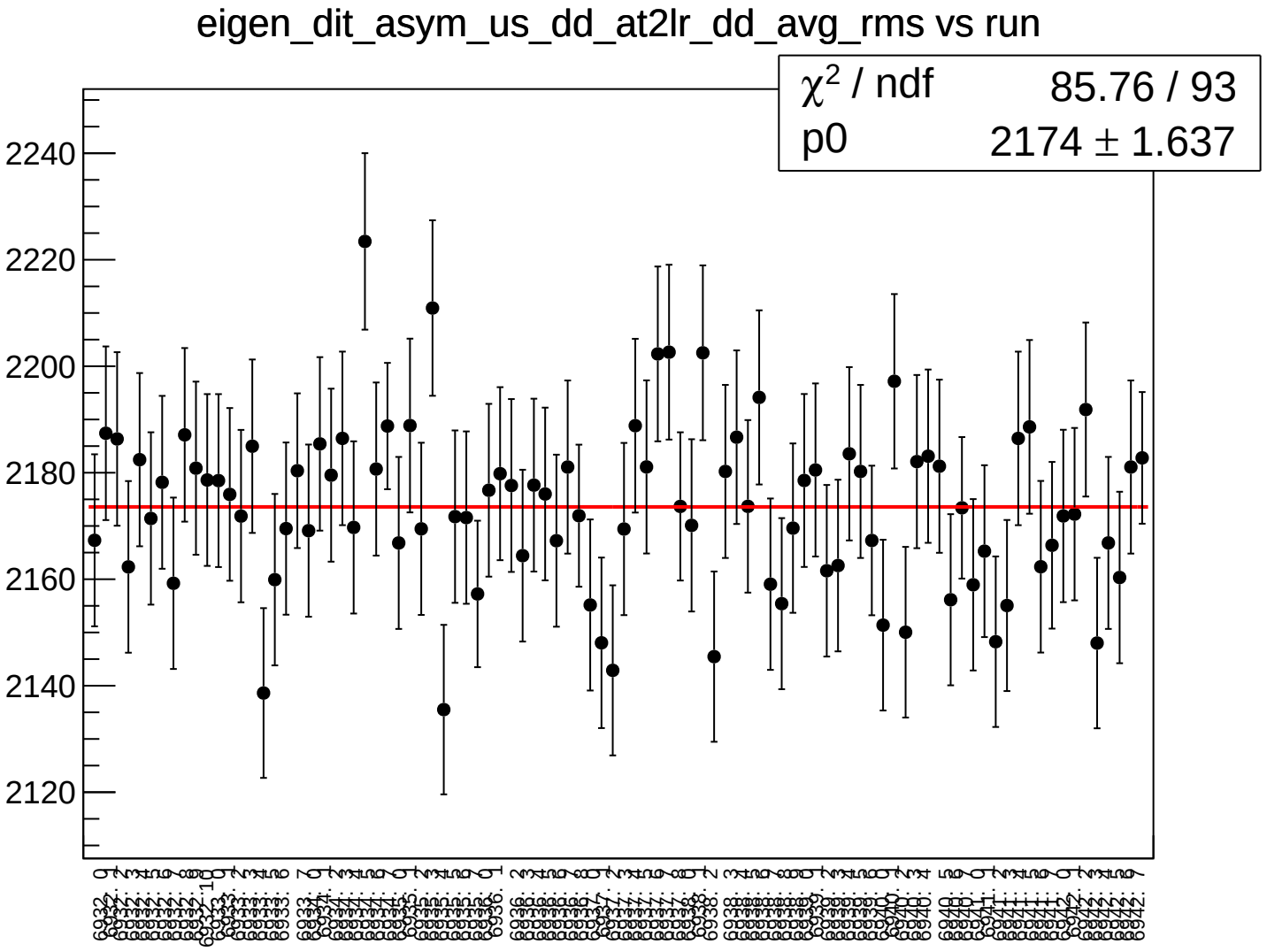

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 84.58 / 93
p0 927.6 ± 1784
pull
Entries 94
Mean 348.4
Std Dev 0

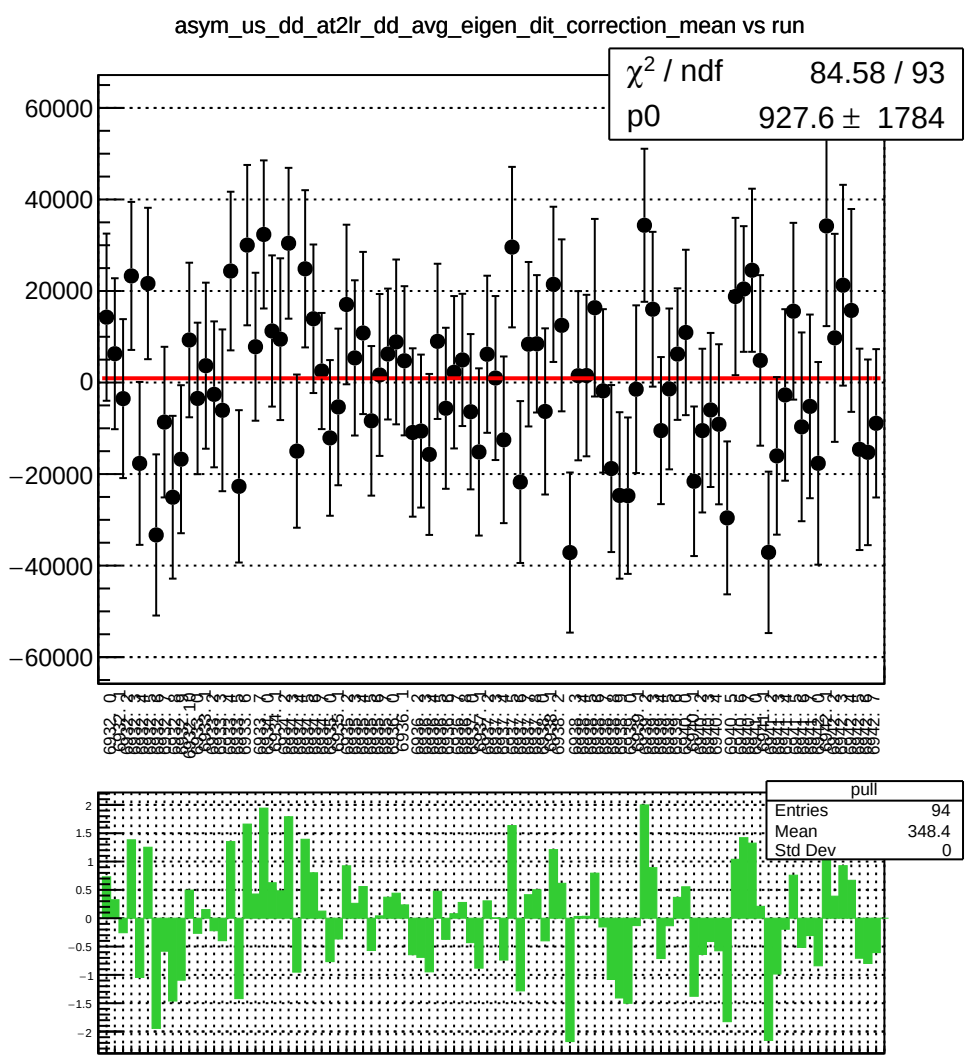

pull1D
Entries 94
Mean −0.007671
Std Dev 0.9486

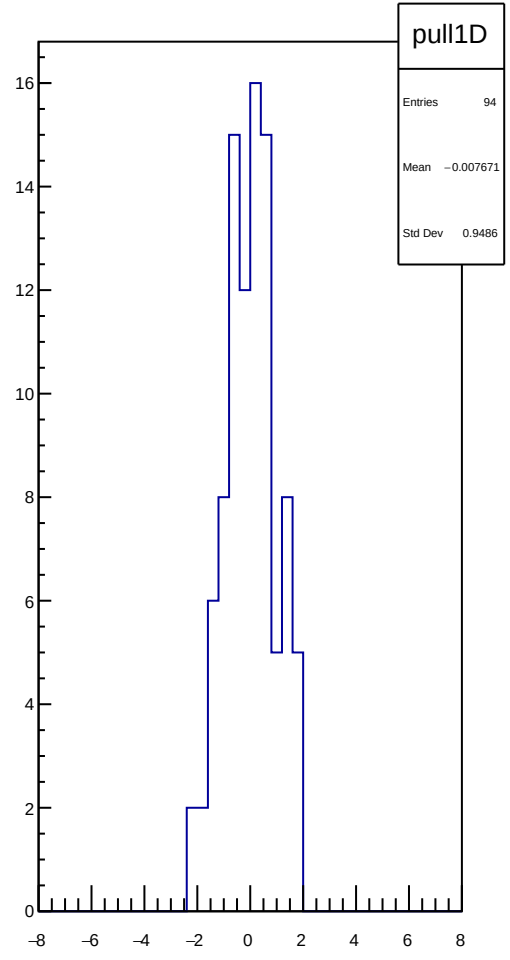

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.003e+04 / 93
p0 1671 ± 1.262
2200
2100
2000
1900
1800
1700
1600
1500

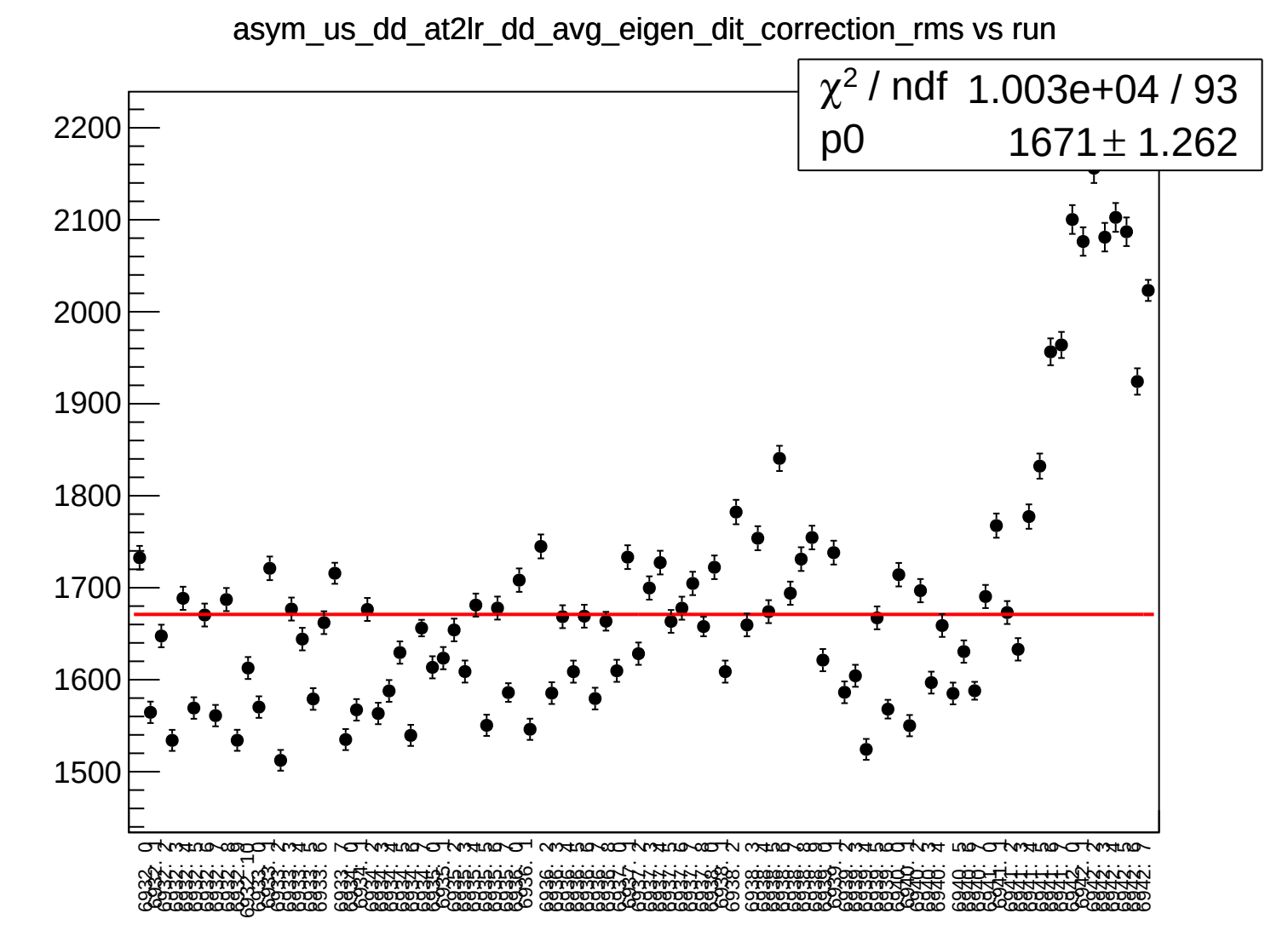

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −311.3 ± 2315
×10³
pull
Entries 94
Mean −430.2
Std Dev 0

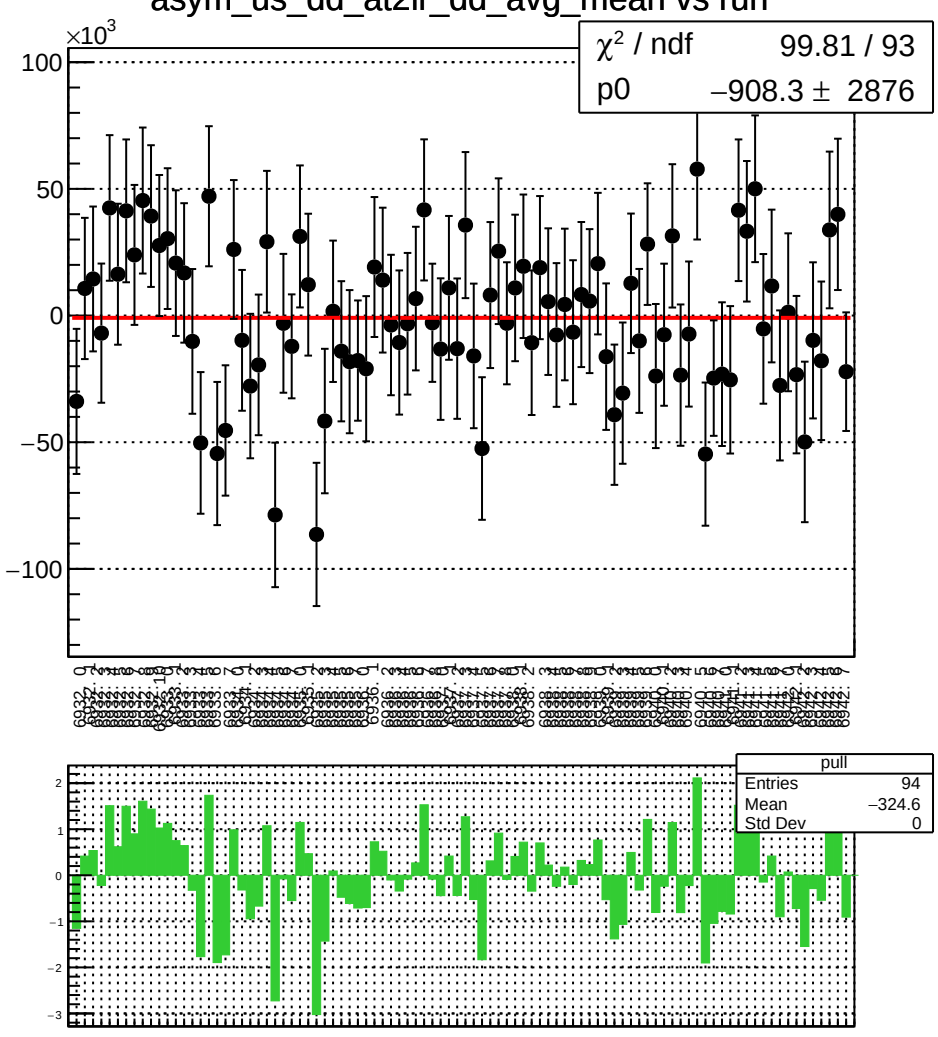

pull1D
Entries 94
Mean 0.008532
Std Dev 1.036

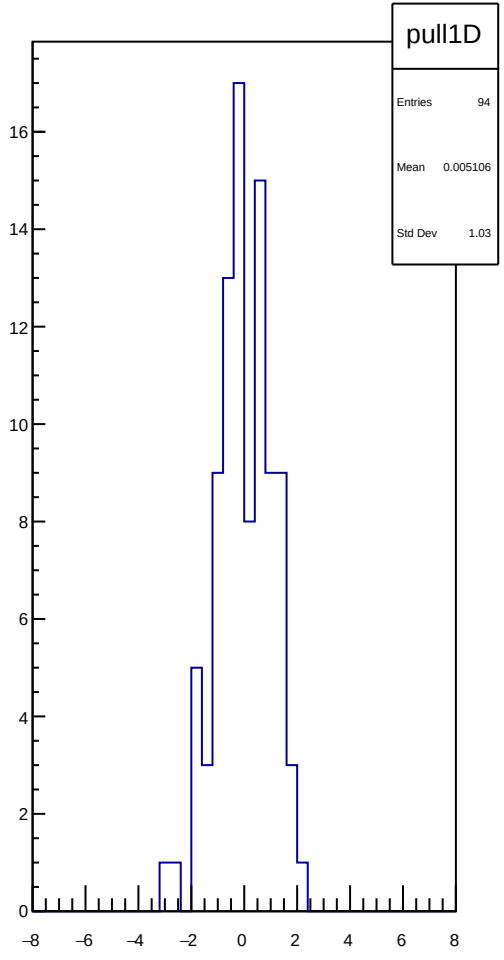

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 85.76 / 93
p0 2174 ± 1.637
2240
2220
2200
2180
2160
2140
2120

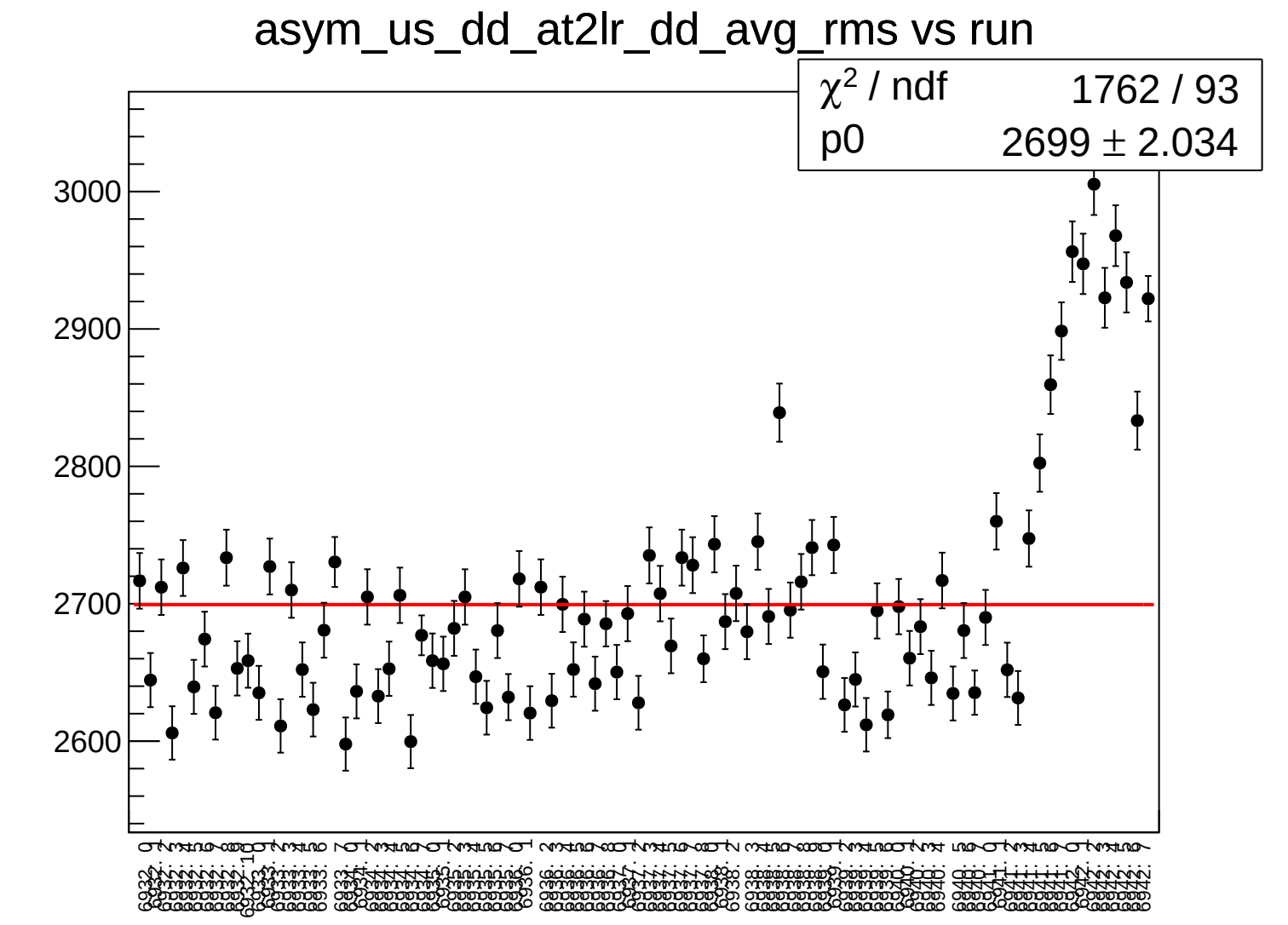

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.58 / 93
p0 927.6 ± 1784
pull
Entries 94
Mean 348.4
Std Dev 0

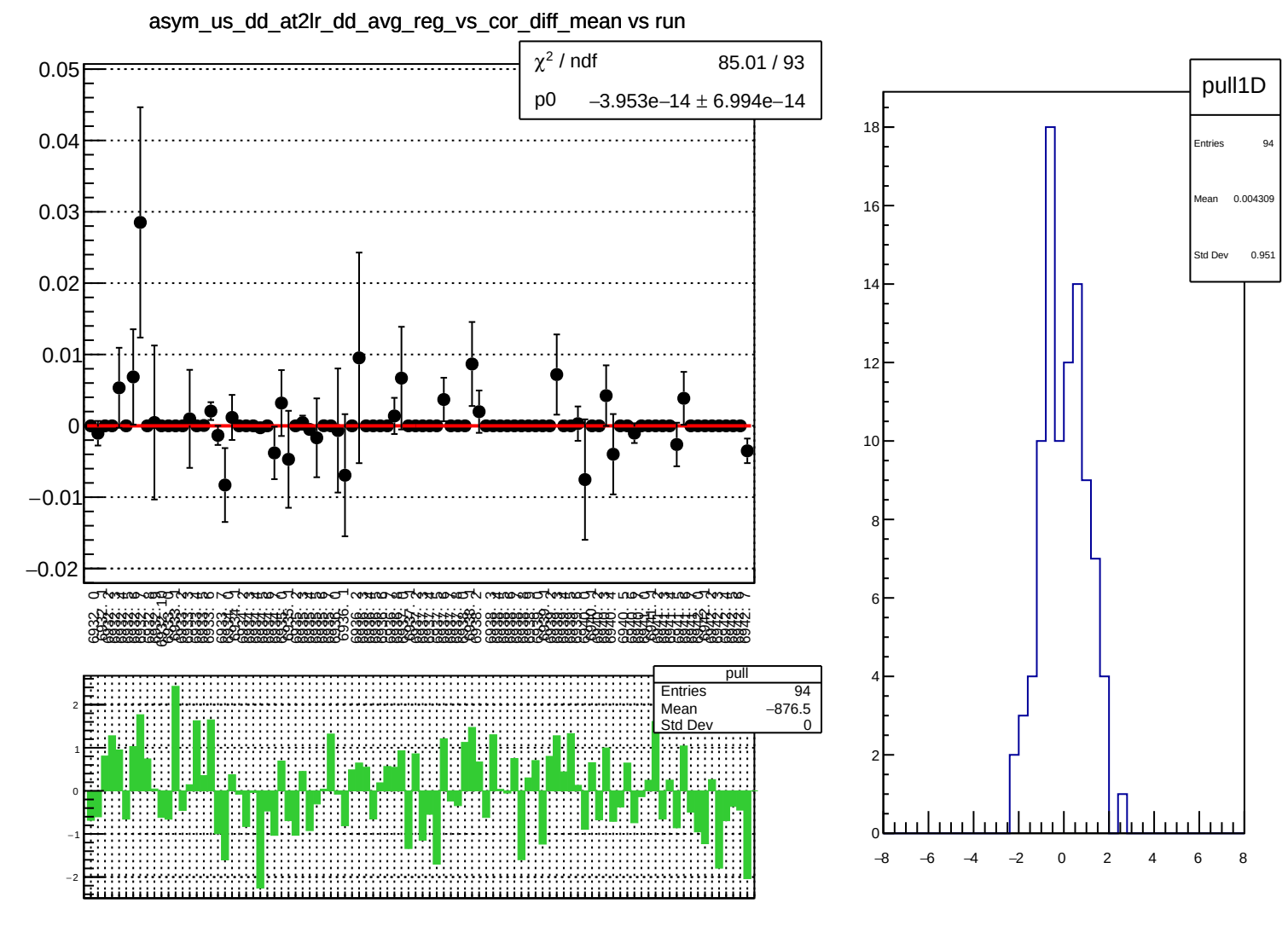

pull1D
Entries 94
Mean −0.007671
Std Dev 0.9486

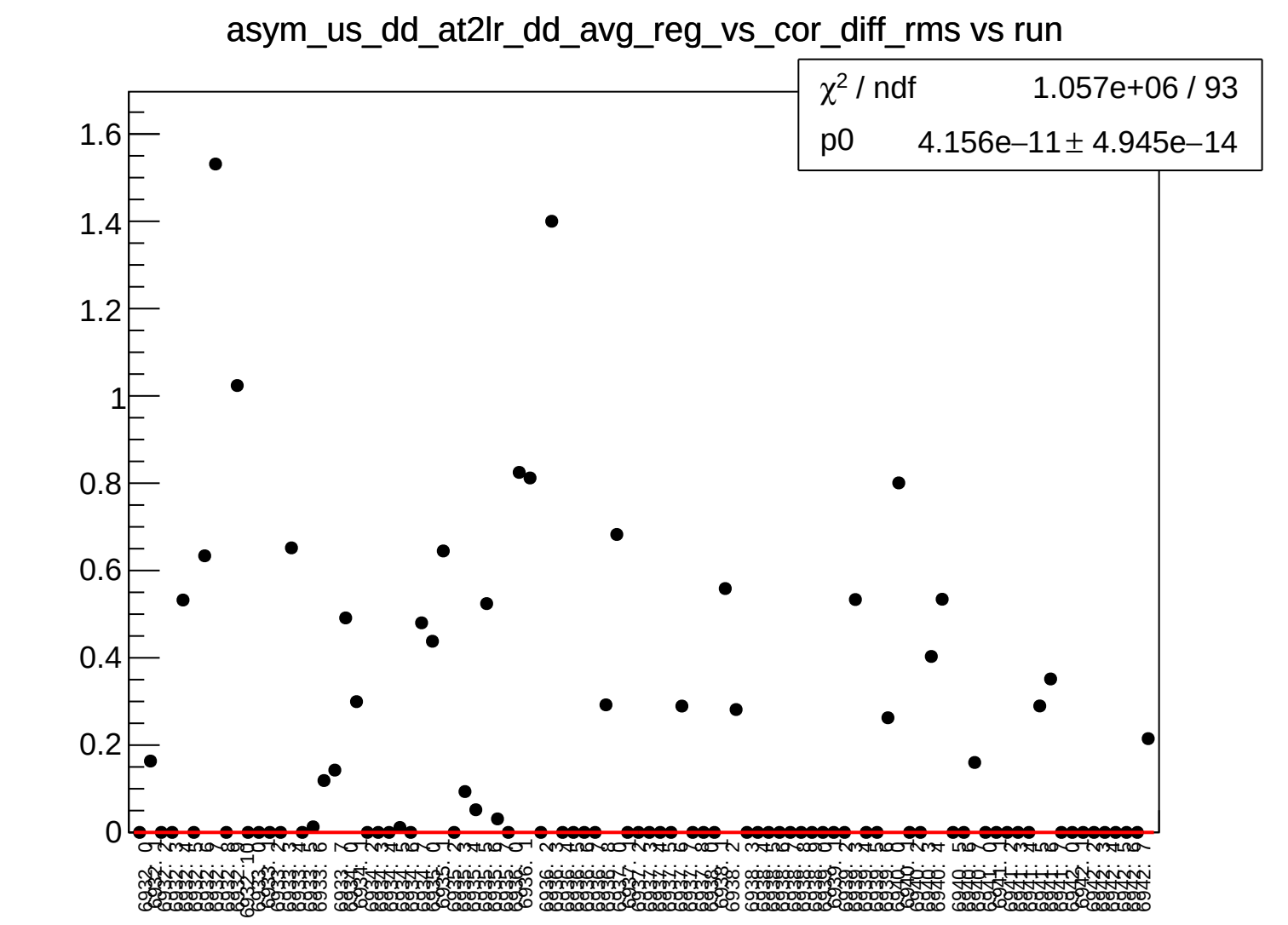

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.003e+04 / 93
p0 1671 ± 1.262
2200
2100
2000
1900
1800
1700
1600
1500

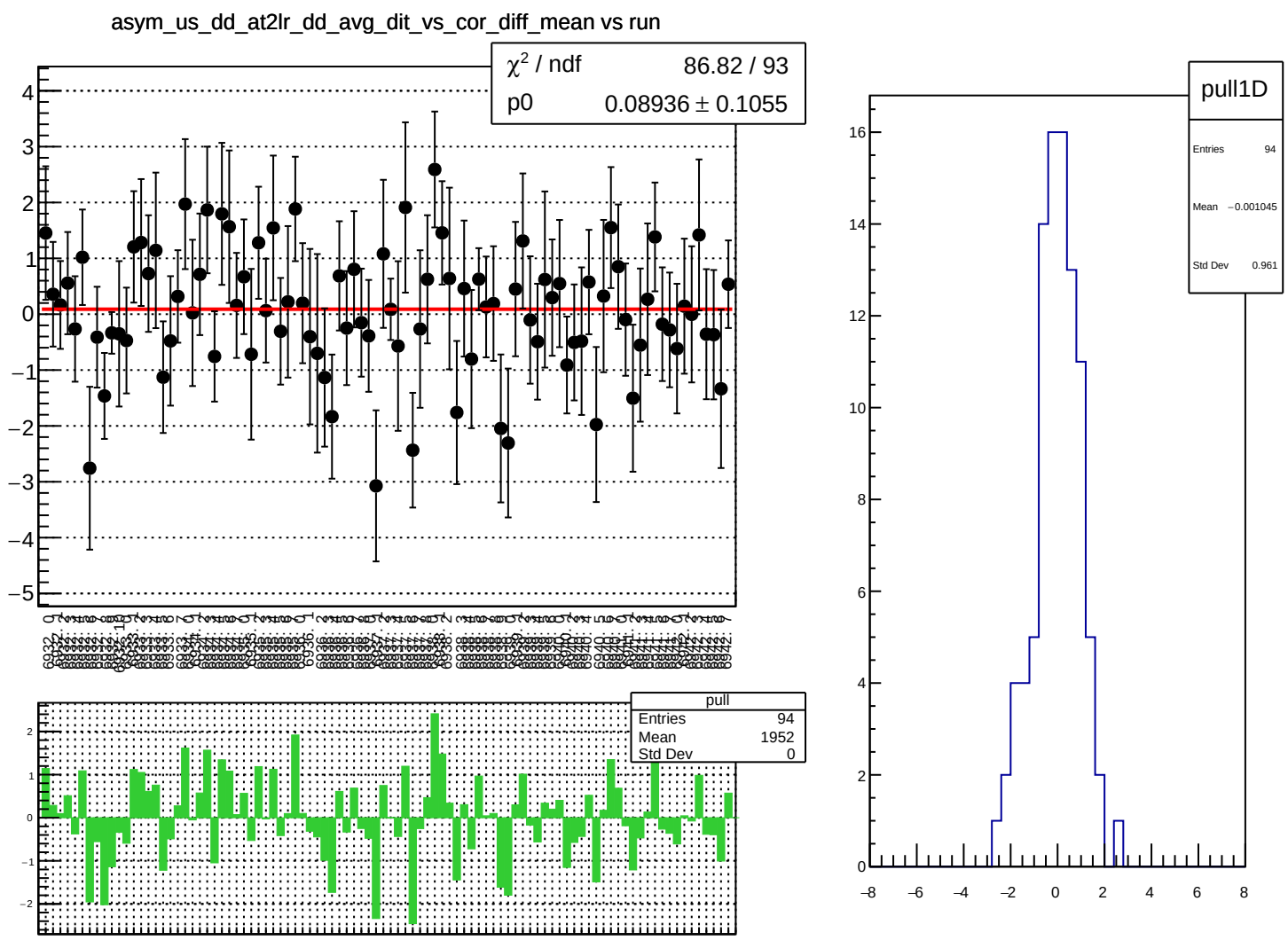

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 99.81 / 93
p0 −908.3 ± 2876
100
50
0
−50
−100
pull
Entries 94
Mean −324.6
Std Dev 0
2
1
0
−1
−2
−3

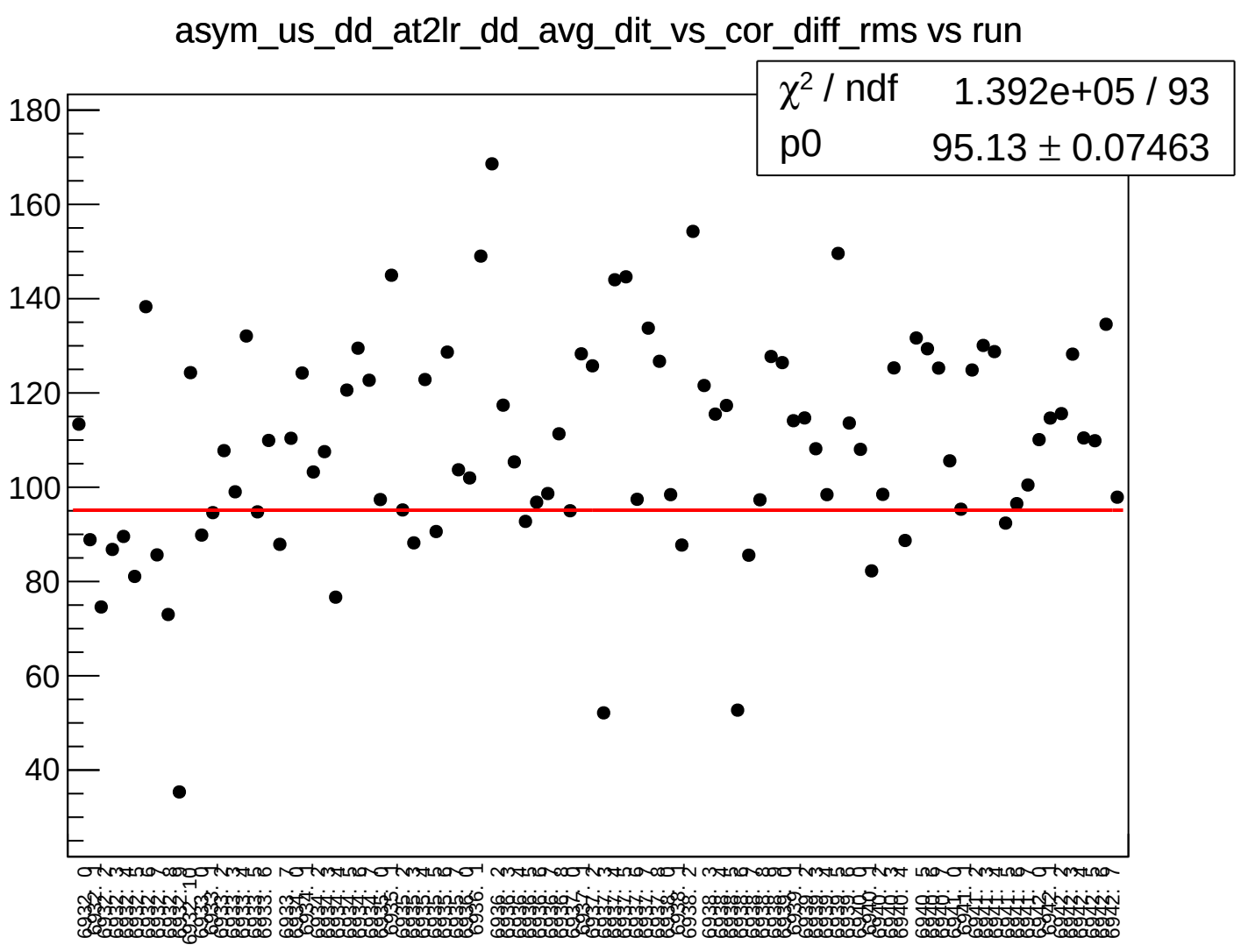

pull1D
Entries 94
Mean 0.005106
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

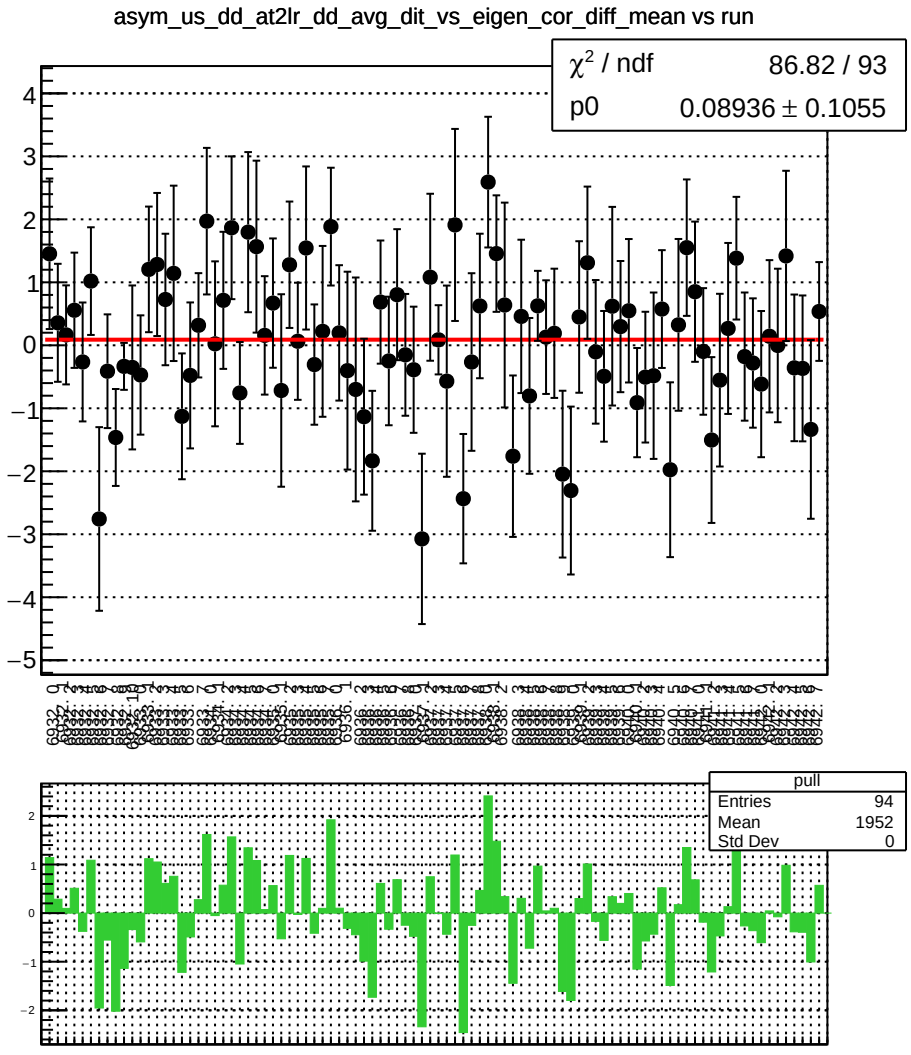

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1762 / 93
p0 2699 ± 2.034
3000
2900
2800
2700
2600

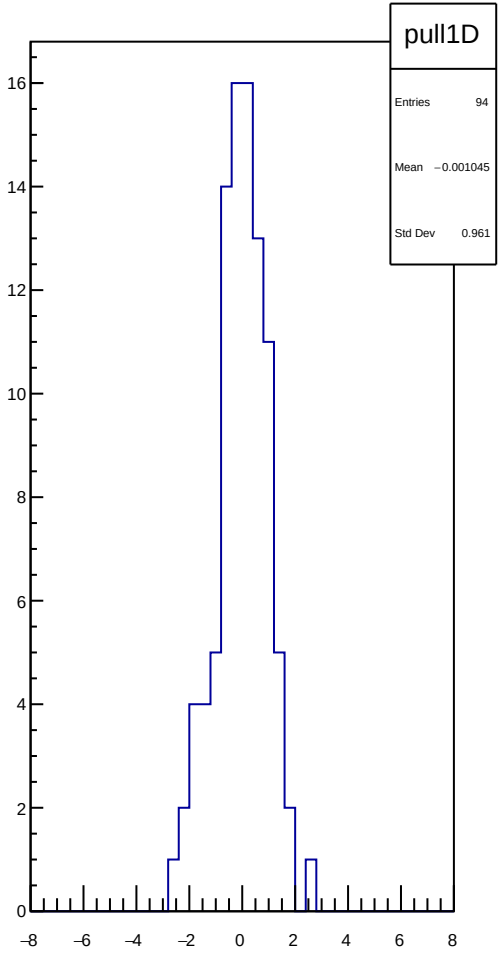

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.01 / 93
p0 −3.953e−14 ± 6.994e−14
pull
Entries 94
Mean −876.5
Std Dev 0
pull1D
Entries 94
Mean 0.004309
Std Dev 0.951

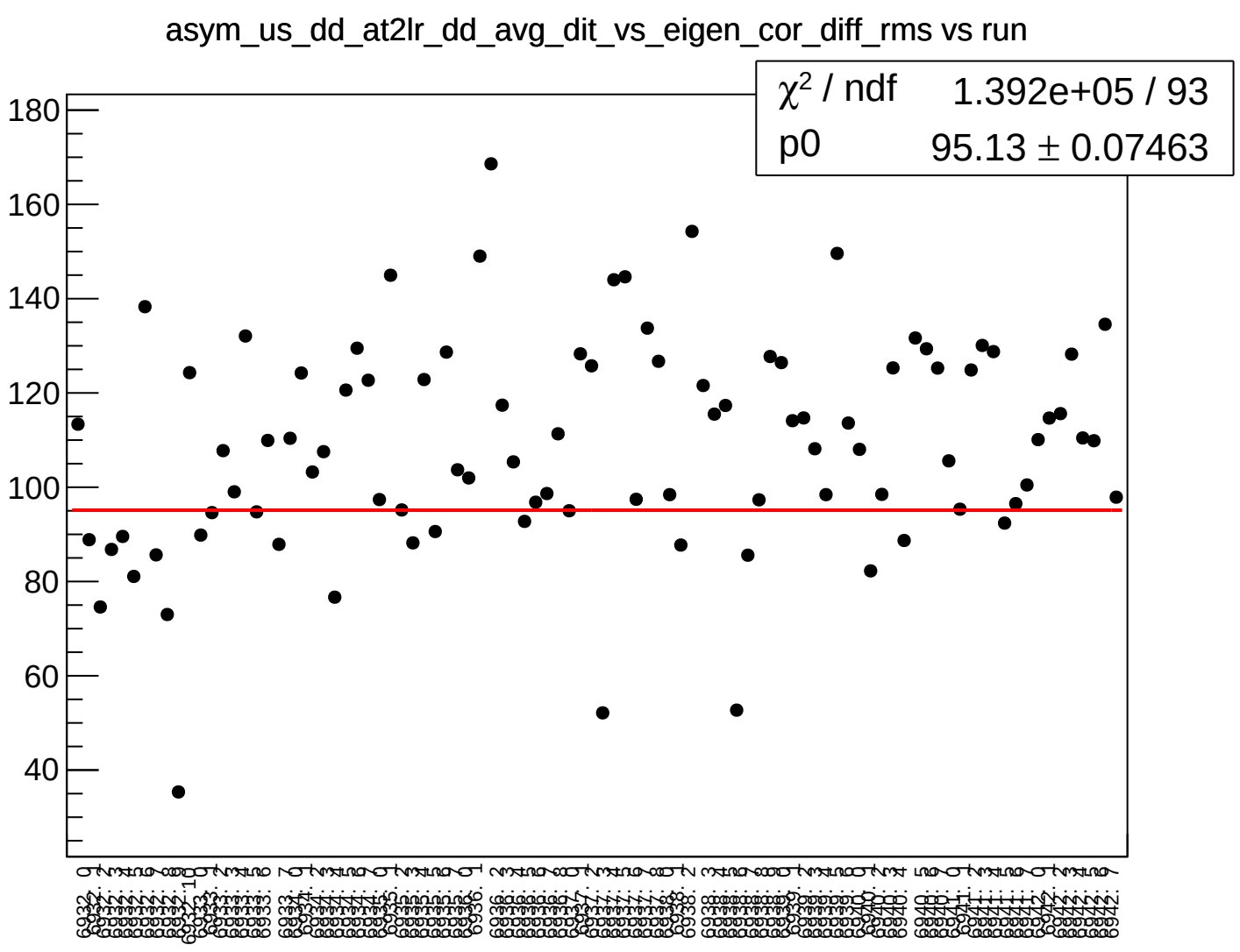

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 93
p0 4.156e−11 ± 4.945e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

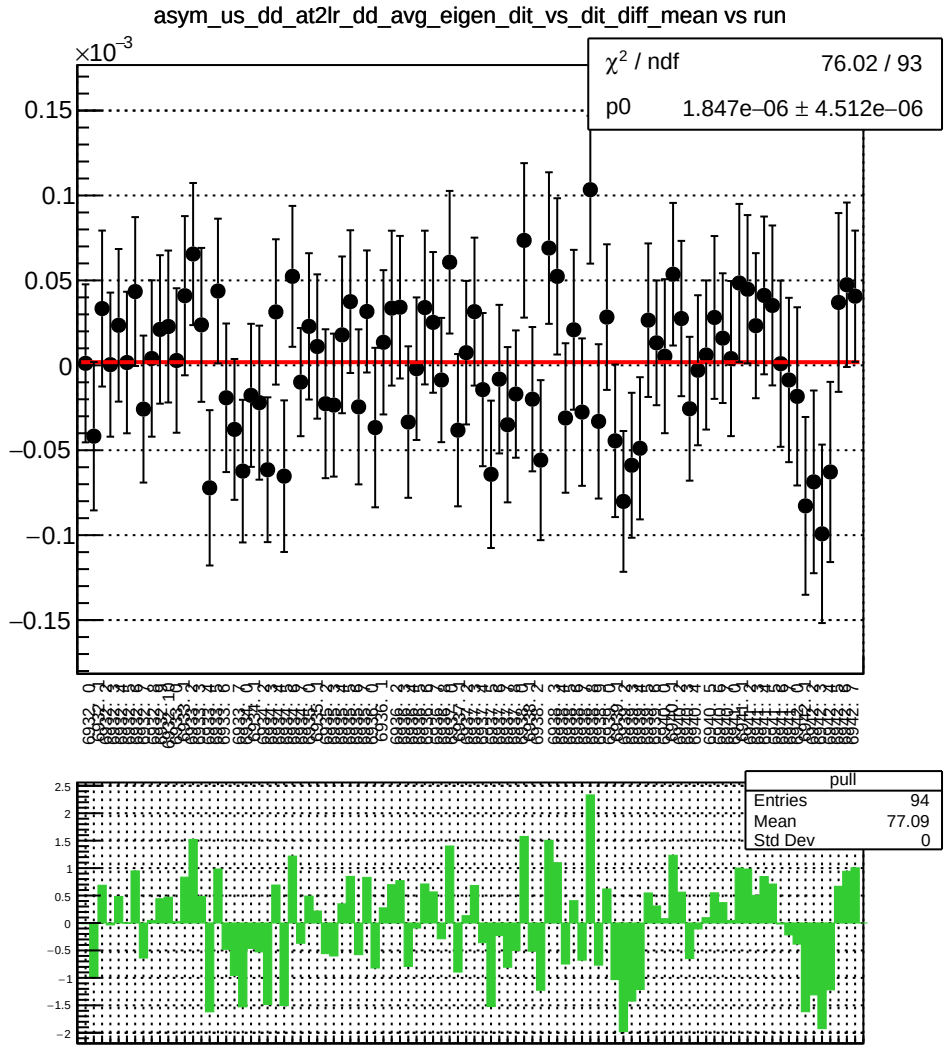

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.82 / 93
p0 0.08936 ± 0.1055
pull
Entries 94
Mean 1952
Std Dev 0
pull1D
Entries 94
Mean −0.001045
Std Dev 0.961

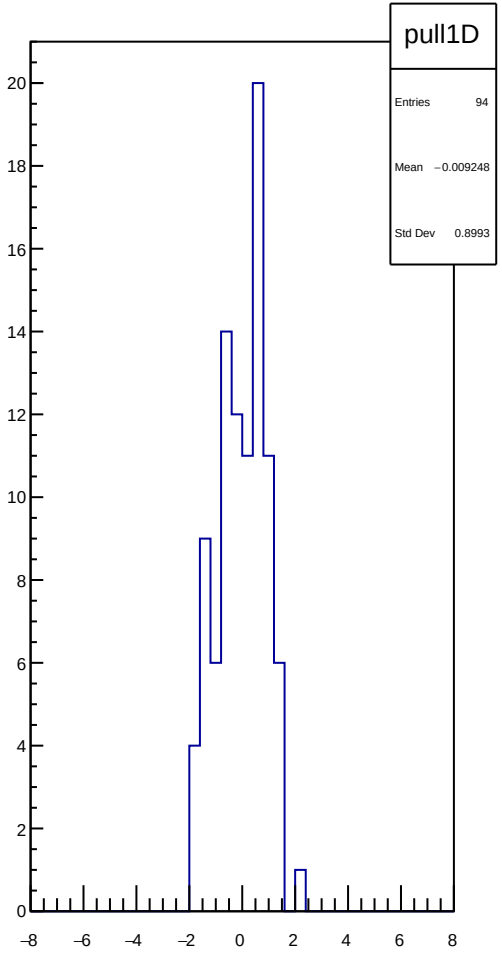

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 93
p0 95.13 ± 0.07463
180
160
140
120
100
80
60
40

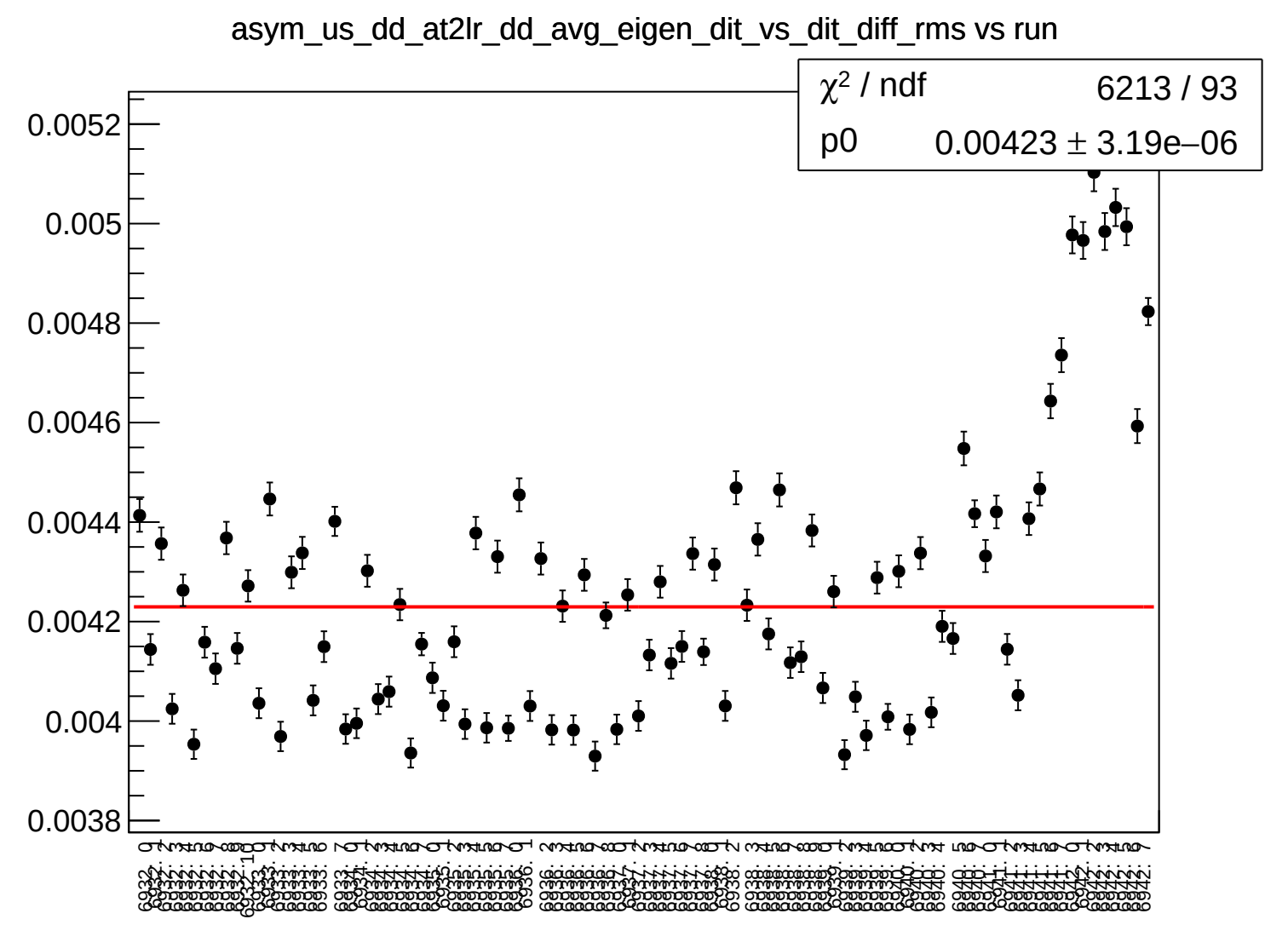

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.82 / 93
p0 0.08936 ± 0.1055
pull
Entries 94
Mean 1952
Std Dev 0

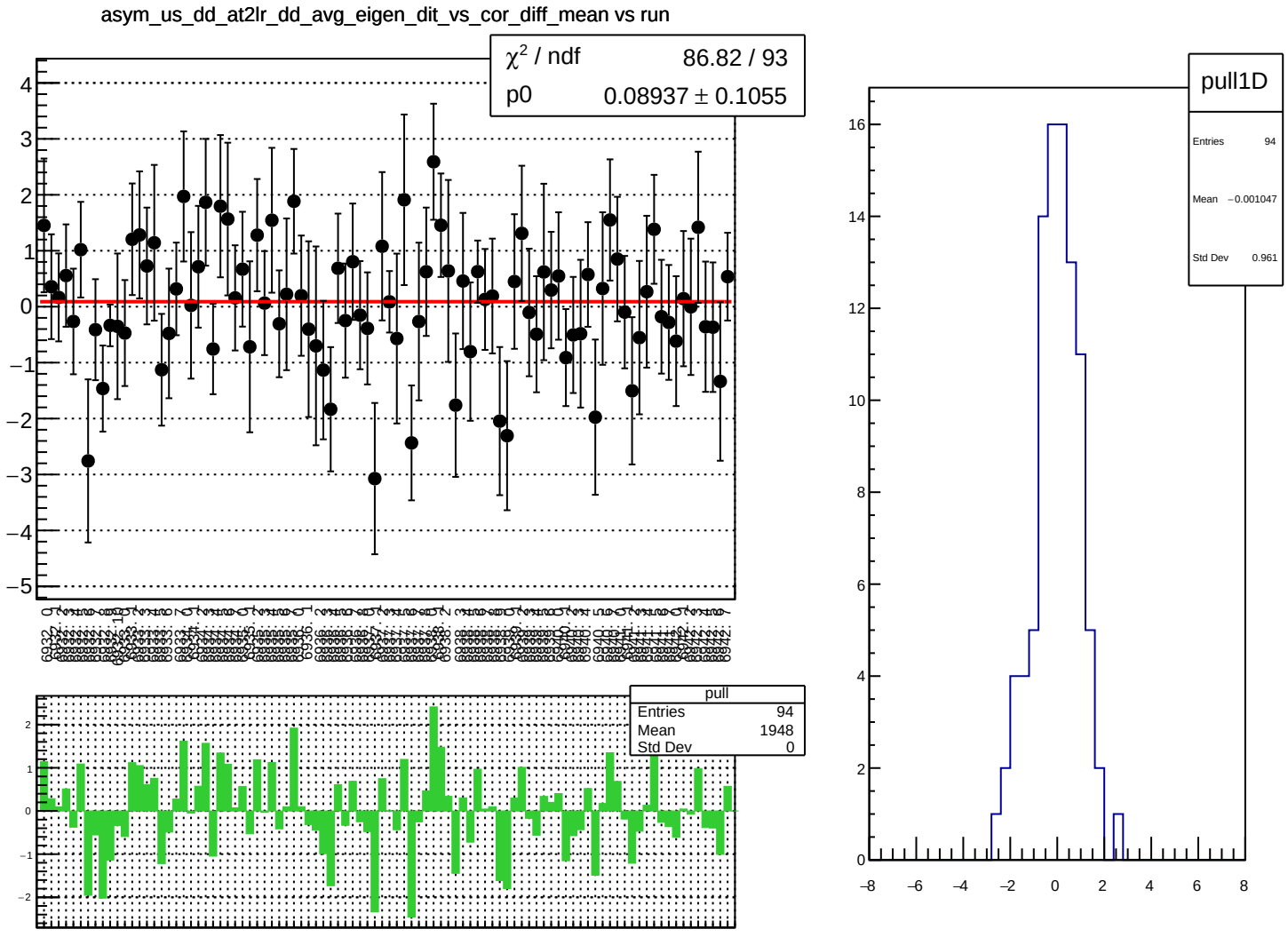

pull1D
Entries 94
Mean −0.001045
Std Dev 0.961

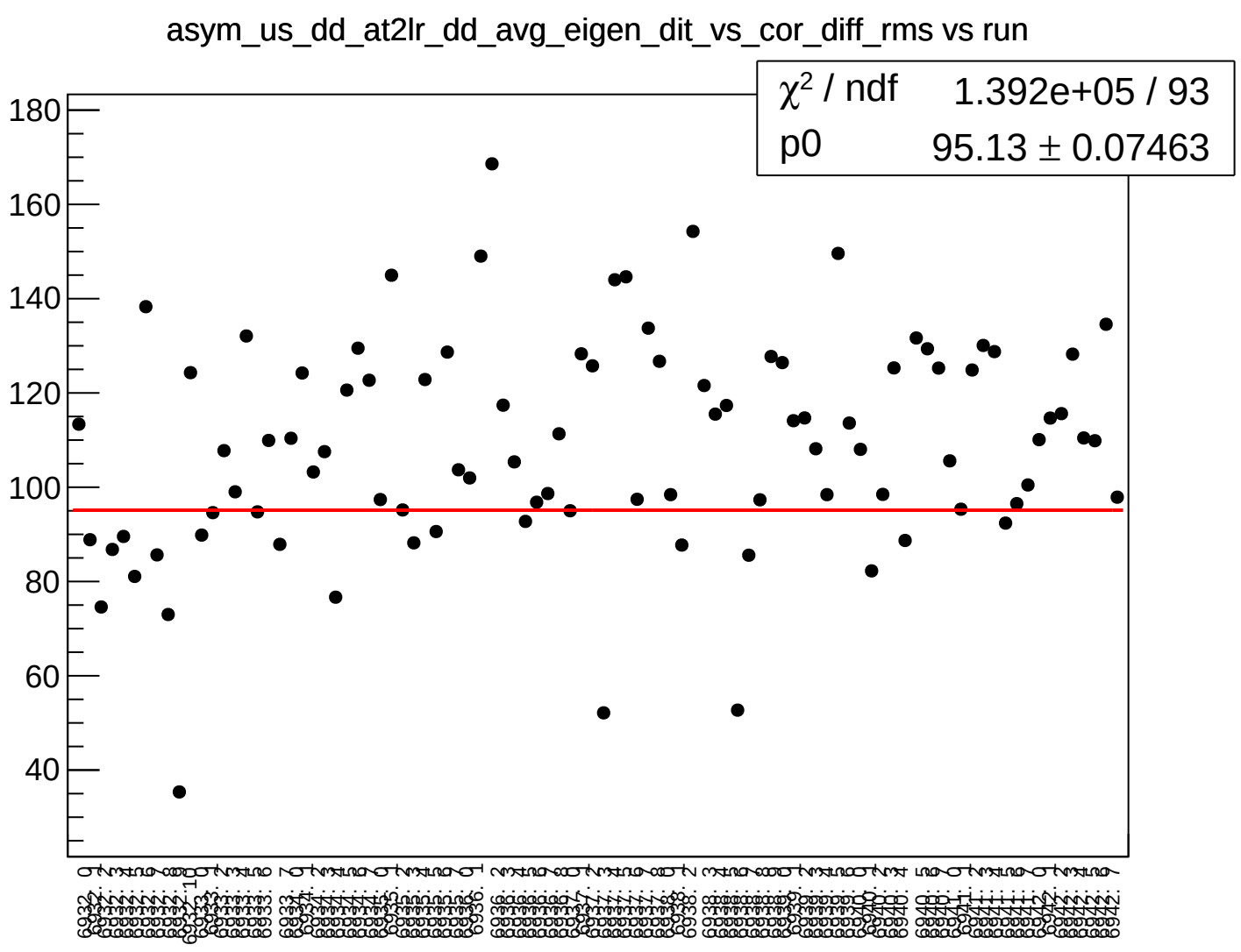

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 93
p0 95.13 ± 0.07463
180
160
140
120
100
80
60
40

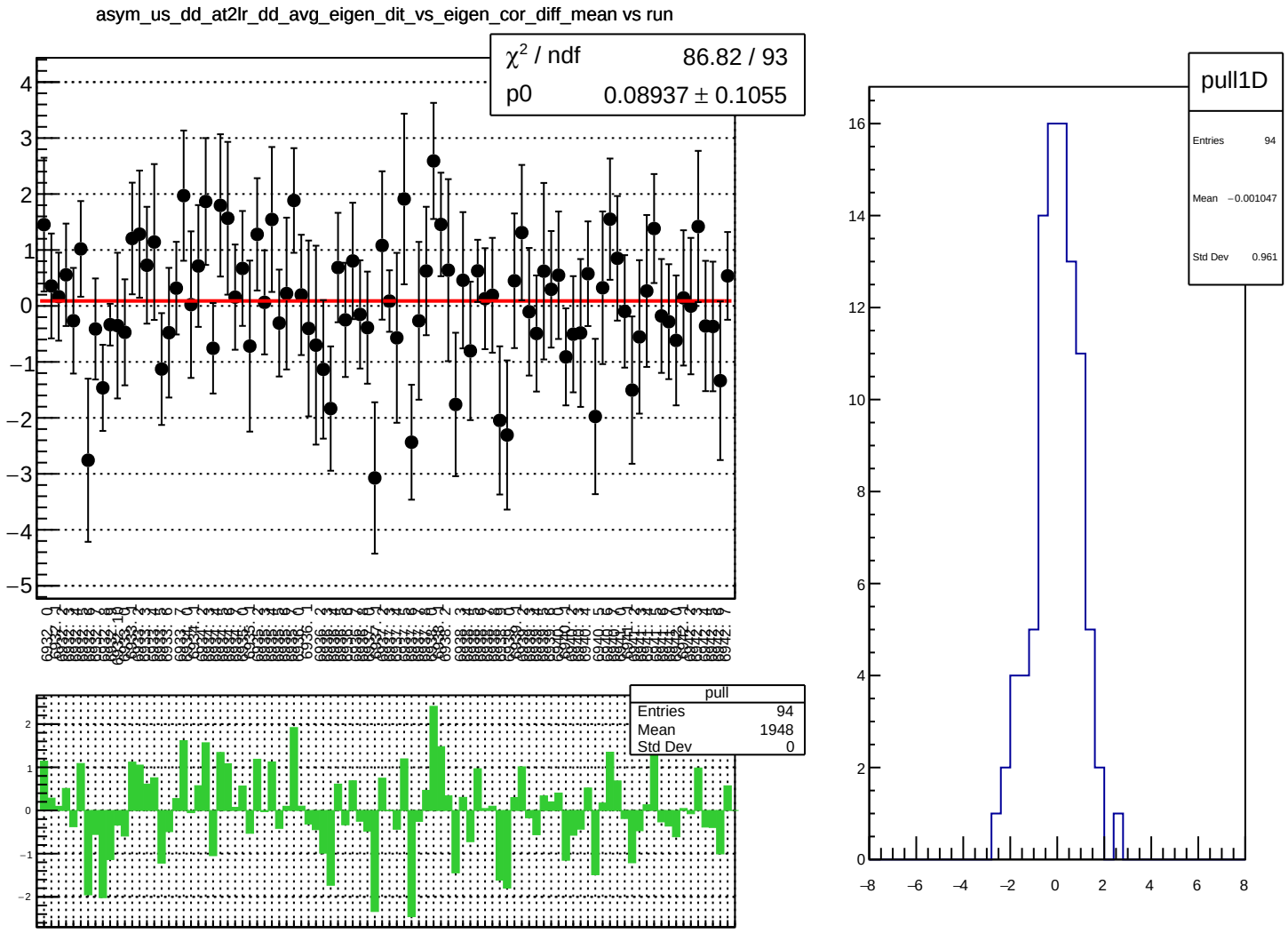

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.02 / 93
p0 1.847e−06 ± 4.512e−06
pull
Entries 94
Mean 77.09
Std Dev 0

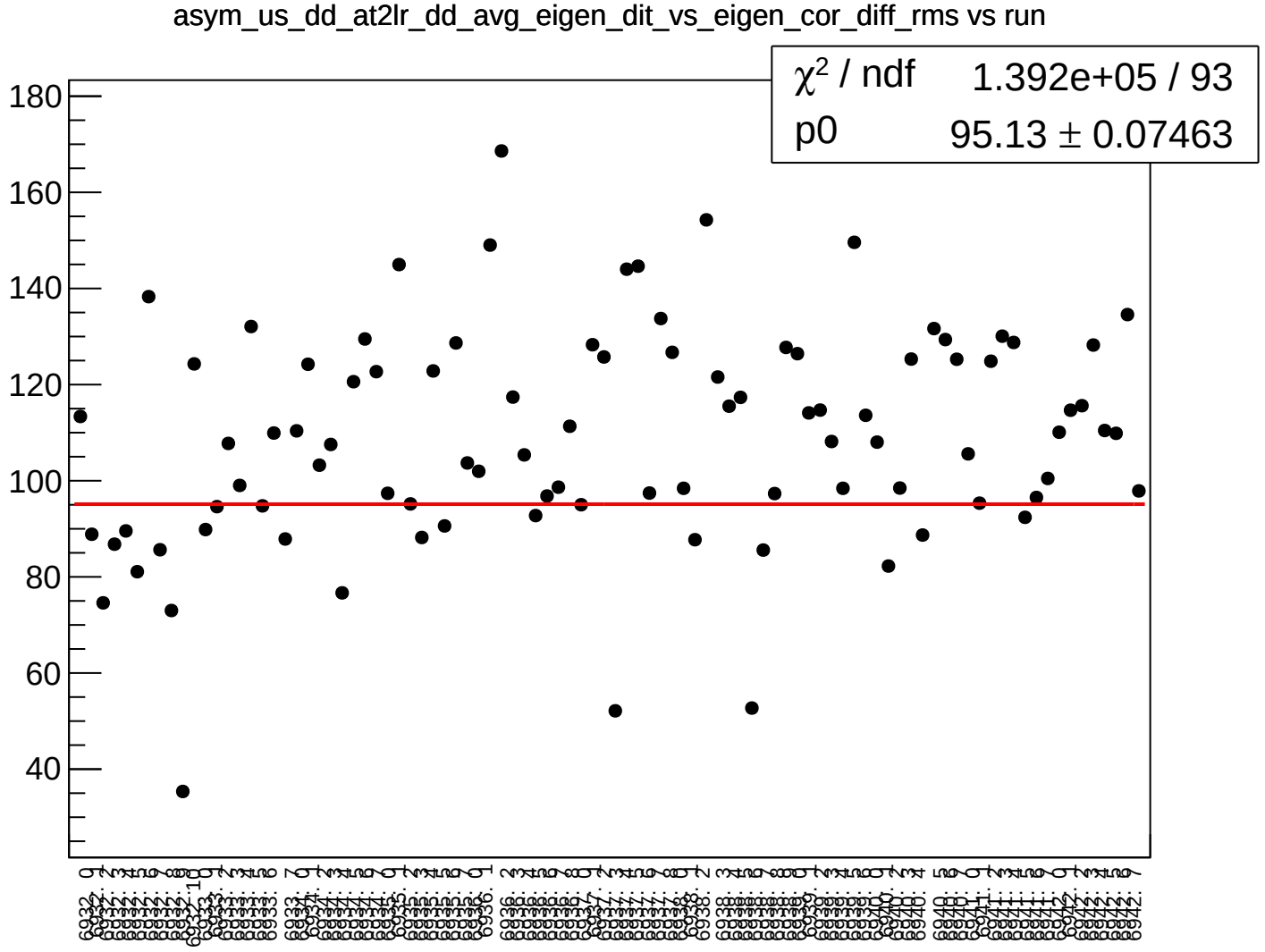

pull1D
Entries 94
Mean −0.009248
Std Dev 0.8993

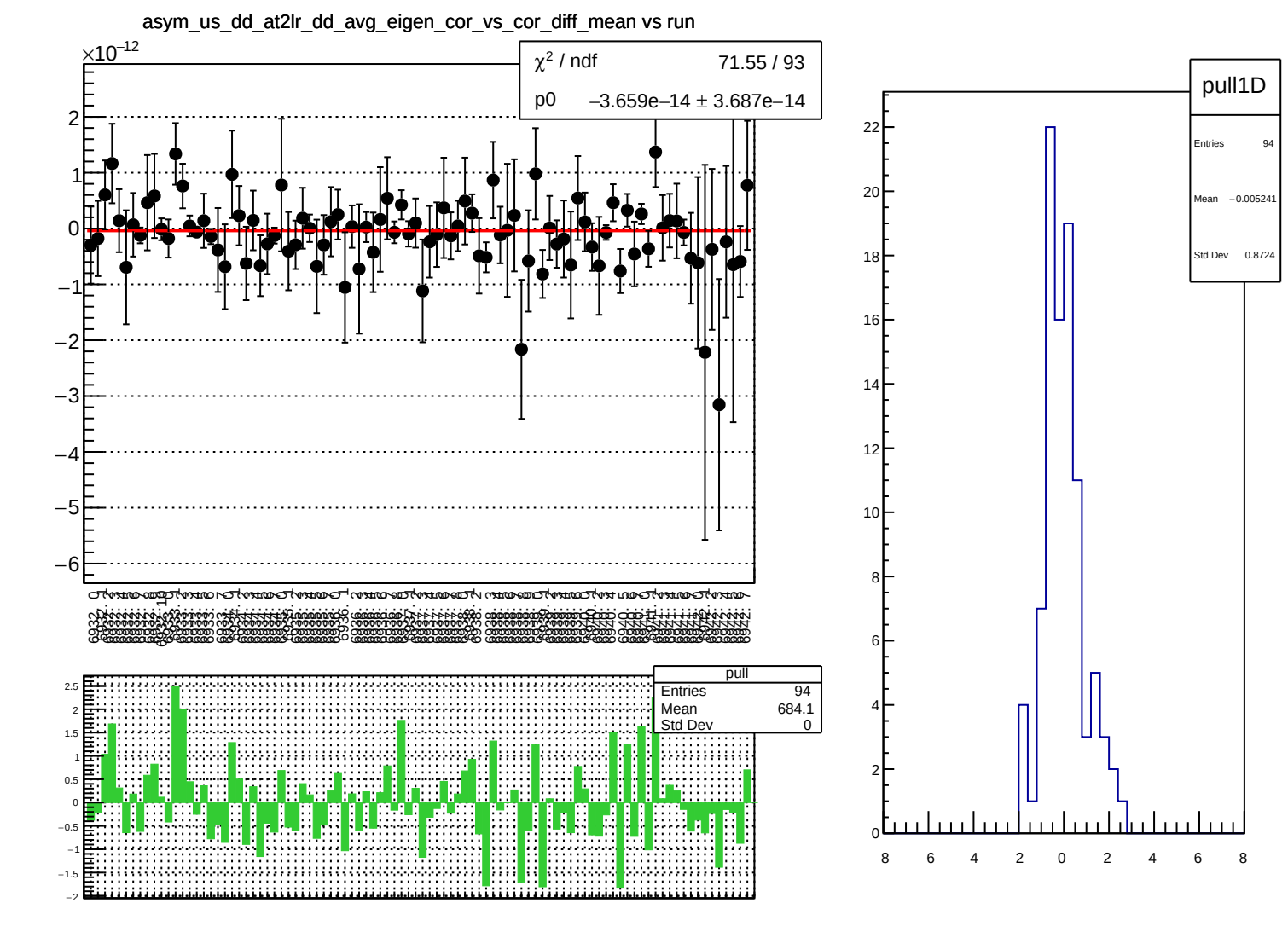

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6213 / 93
p0 0.00423 ± 3.19e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

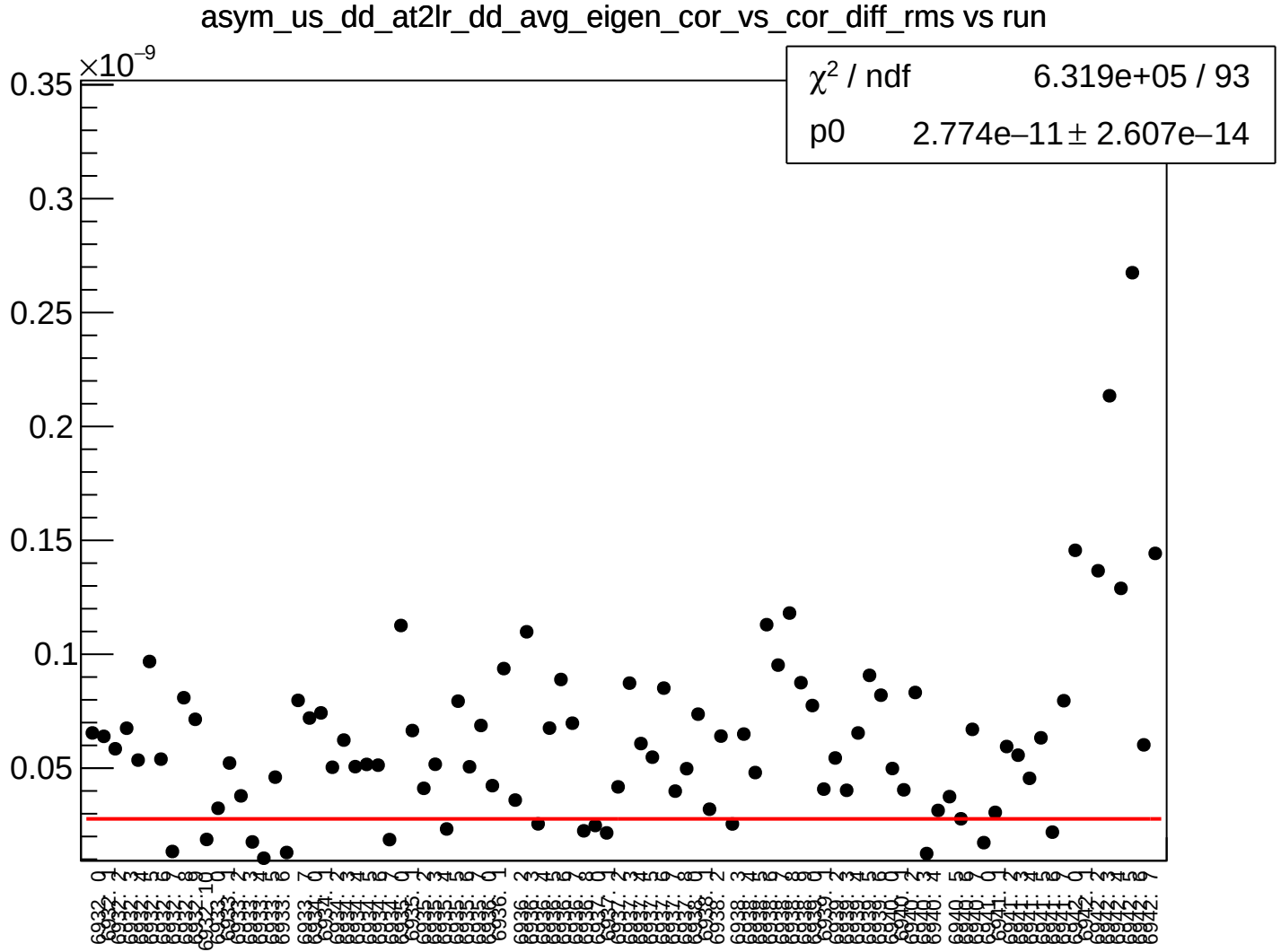

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.82 / 93
p0 0.08937 ± 0.1055
pull
Entries 94
Mean 1948
Std Dev 0
pull1D
Entries 94
Mean −0.001047
Std Dev 0.961

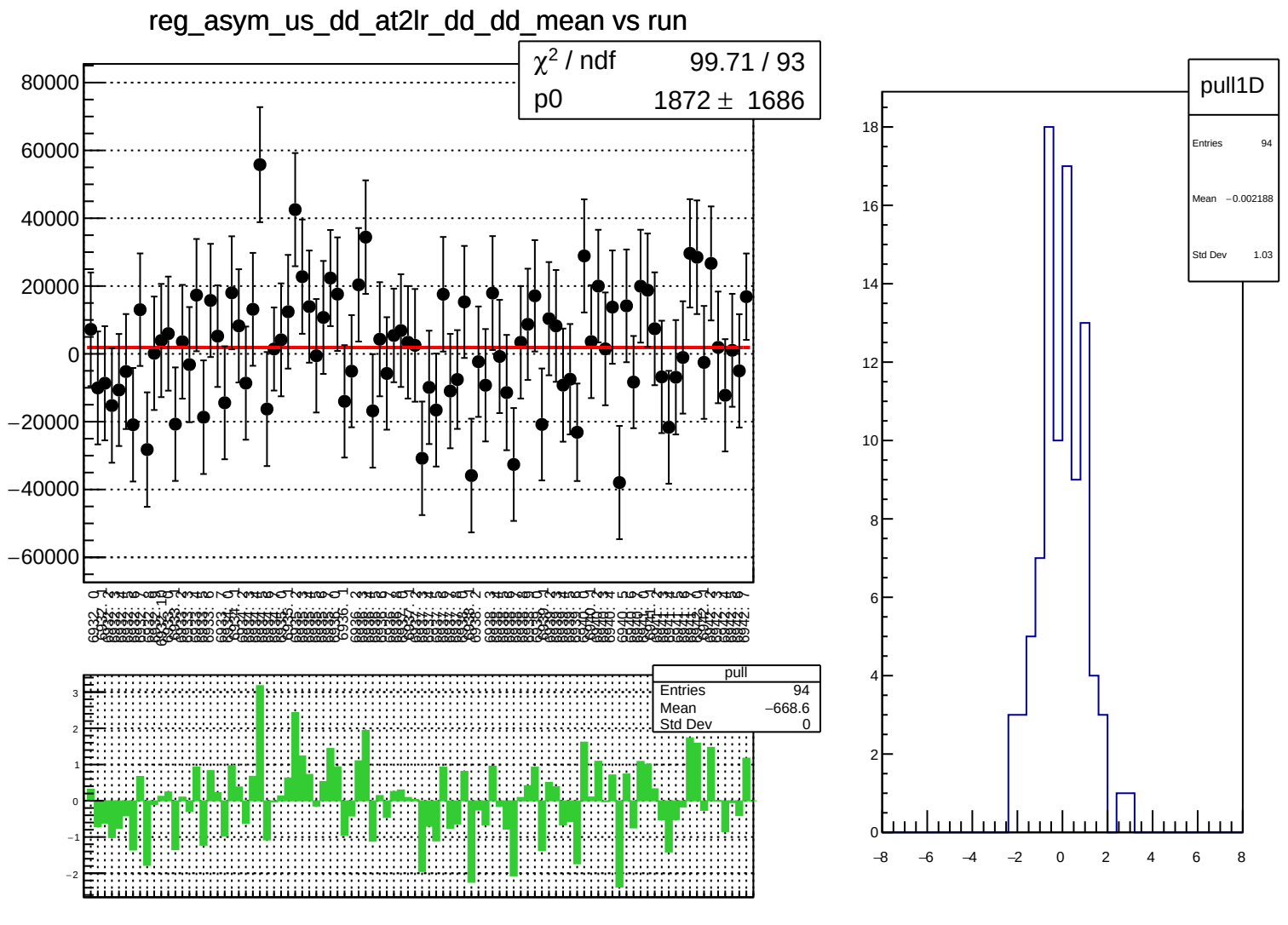

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 93
p0 95.13 ± 0.07463
180
160
140
120
100
80
60
40

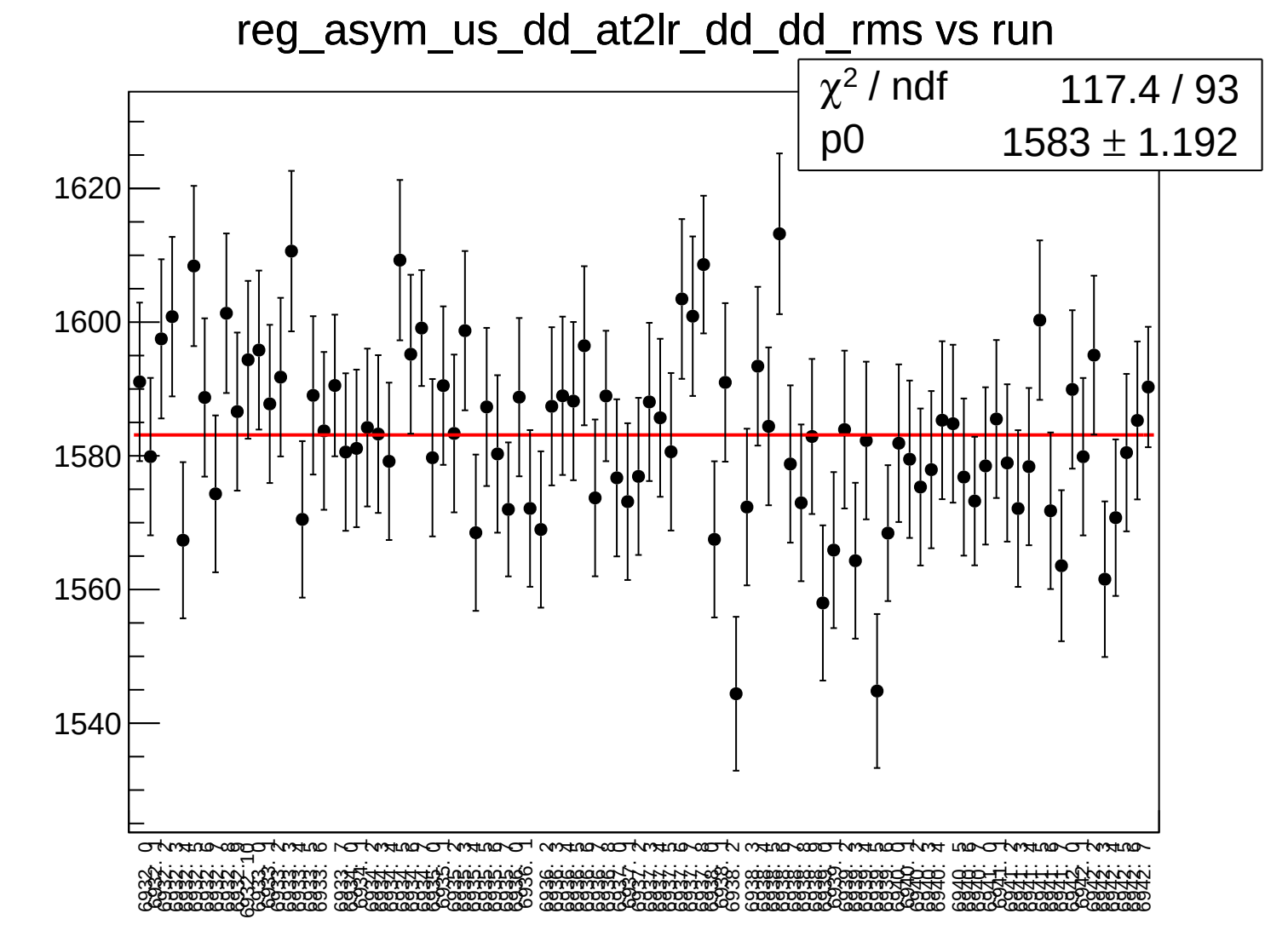

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.82 / 93
p0 0.08937 ± 0.1055
pull
Entries 94
Mean 1948
Std Dev 0
pull1D
Entries 94
Mean −0.001047
Std Dev 0.961

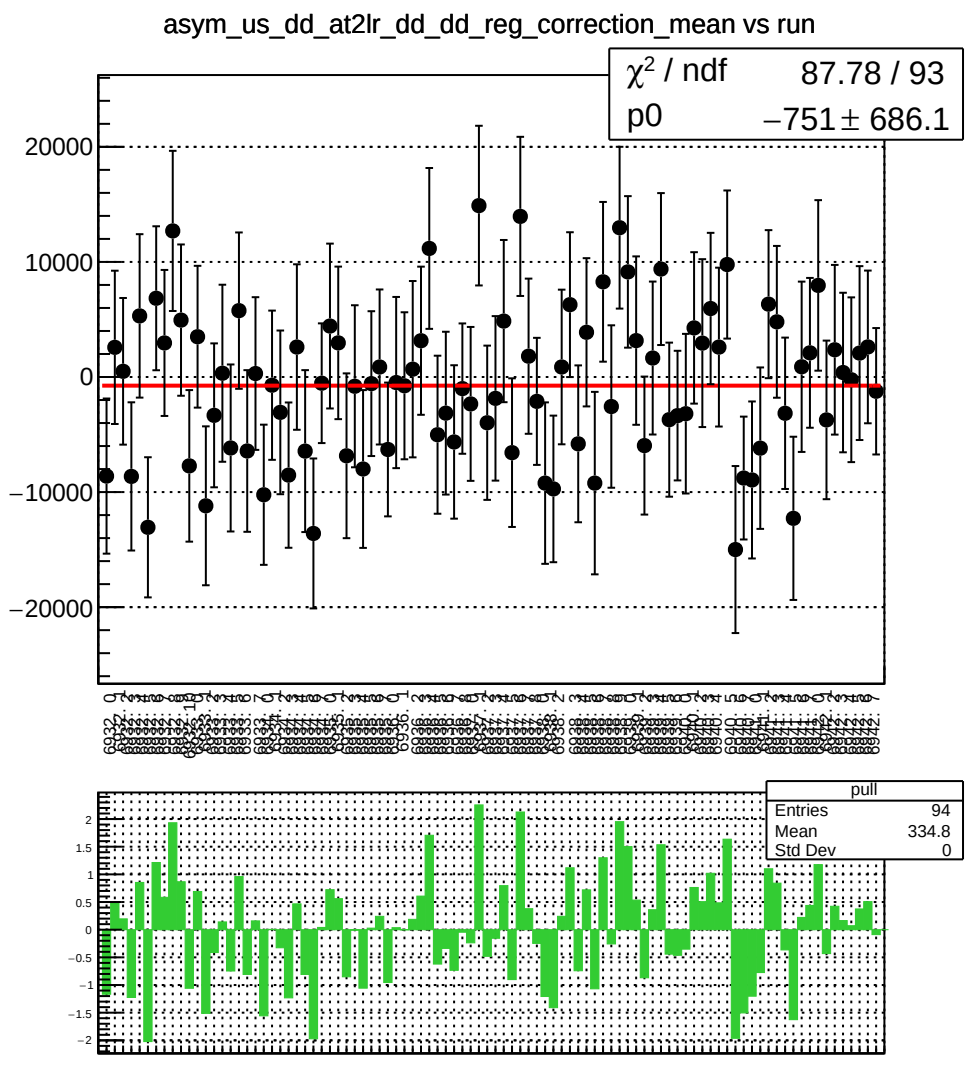

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.392e+05 / 93
p0 95.13 ± 0.07463
180
160
140
120
100
80
60
40

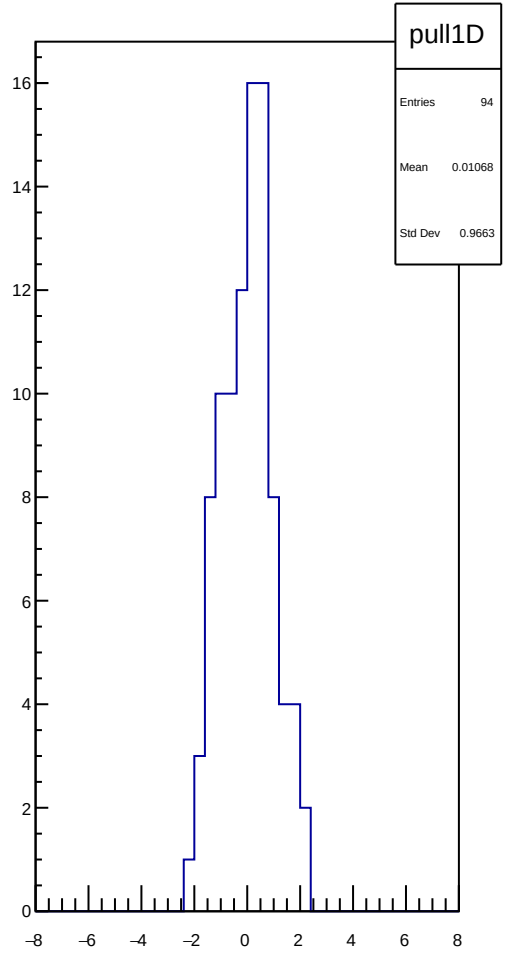

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 71.55 / 93
p0 −3.659e−14 ± 3.687e−14
pull
Entries 94
Mean 684.1
Std Dev 0
pull1D
Entries 94
Mean −0.005241
Std Dev 0.8724

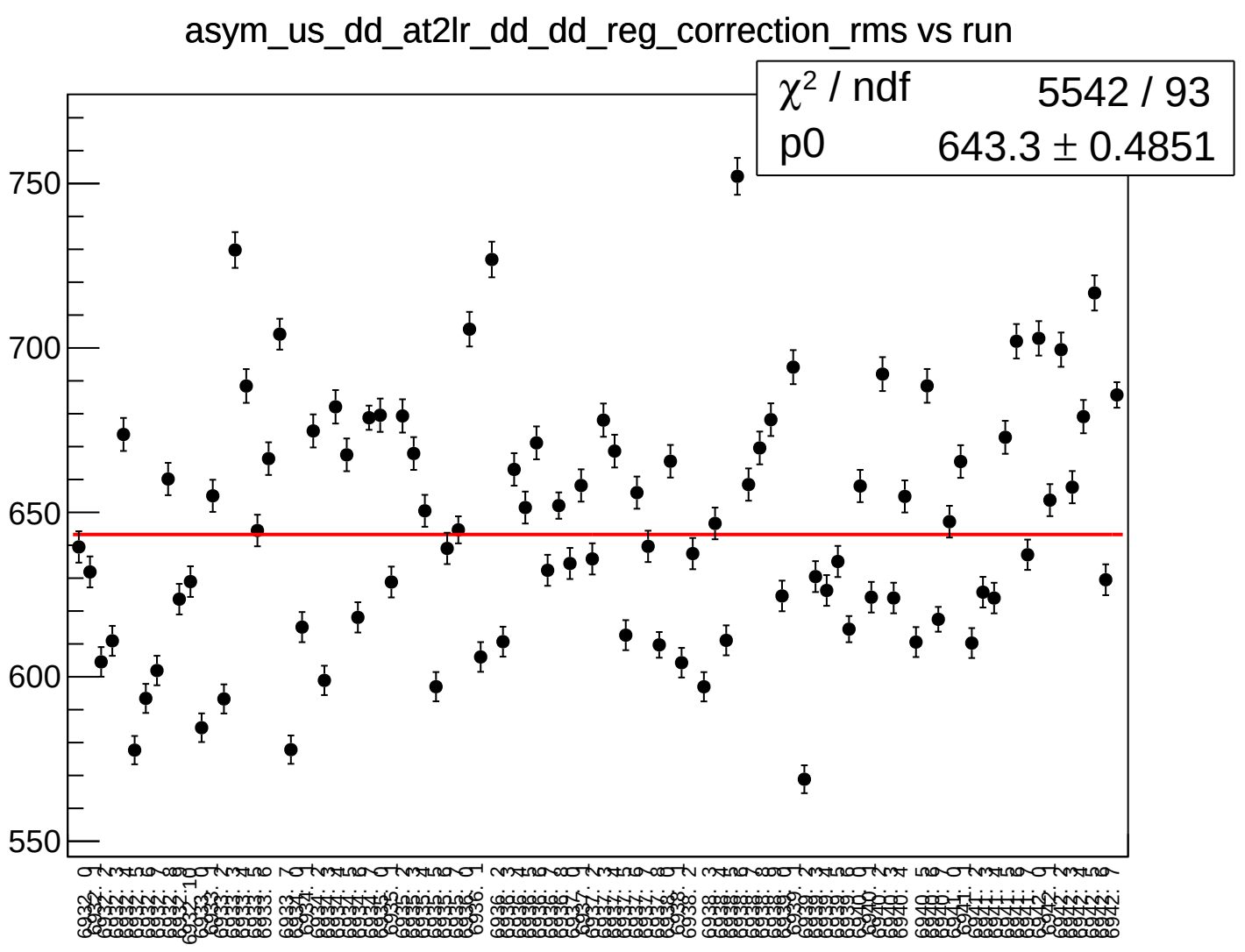

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.319e+05 / 93
p0 2.774e−11 ± 2.607e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

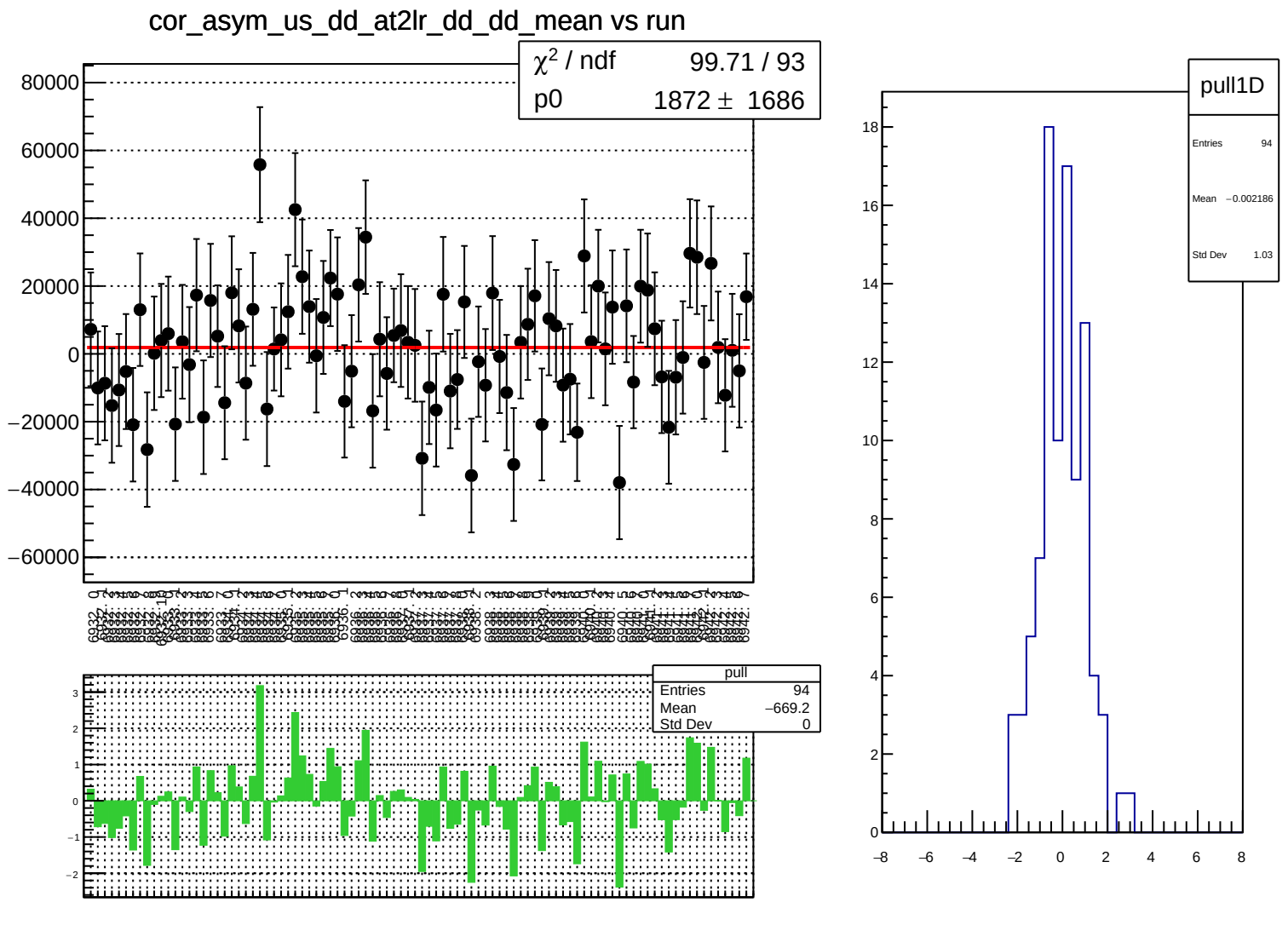

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 99.71 / 93
p0 1872 ± 1686
pull
Entries 94
Mean −668.6
Std Dev 0
pull1D
Entries 94
Mean −0.002188
Std Dev 1.03

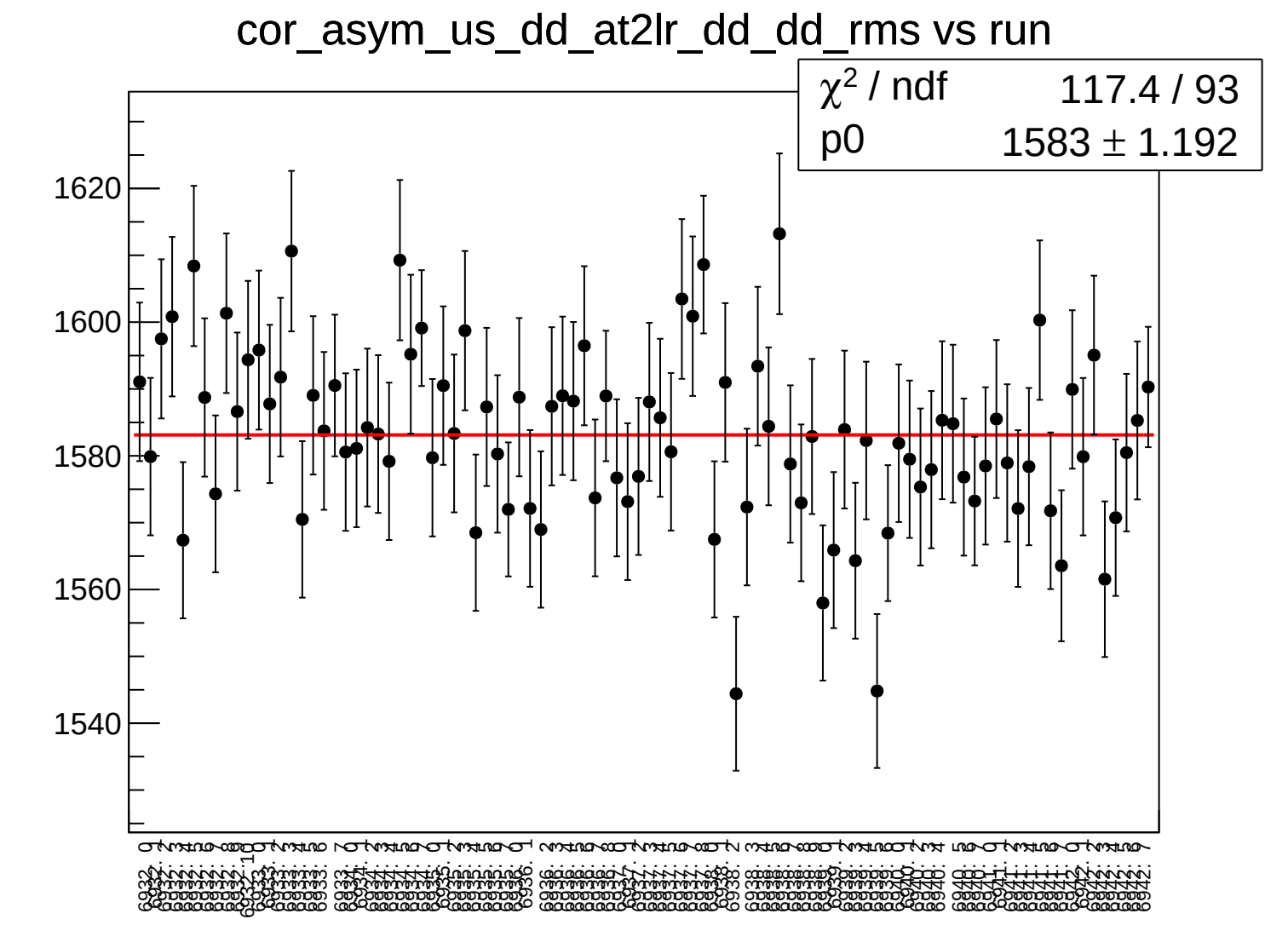

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 117.4 / 93
p0 1583 ± 1.192
1620
1600
1580
1560
1540

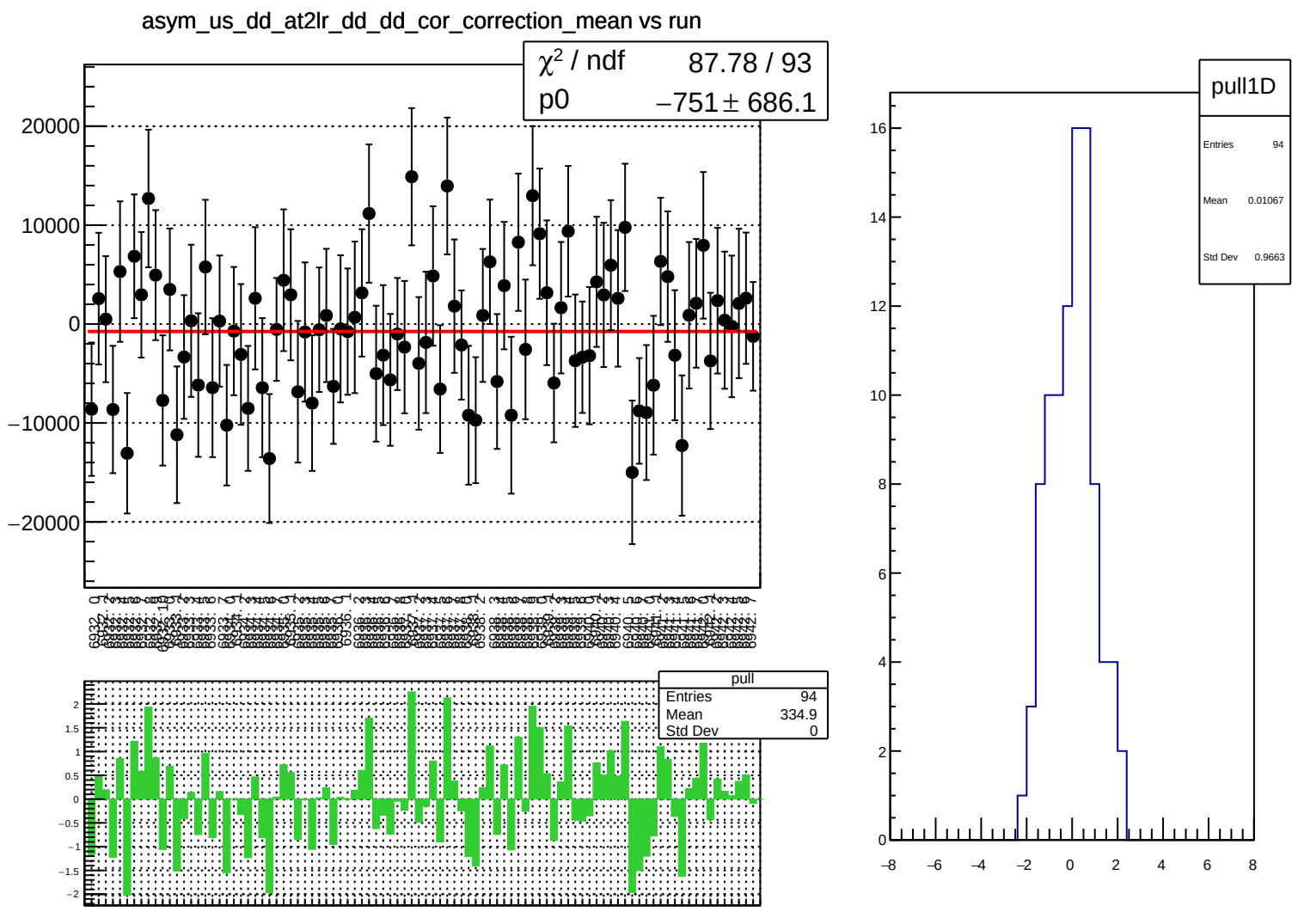

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.78 / 93
p0 −751 ± 686.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 334.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

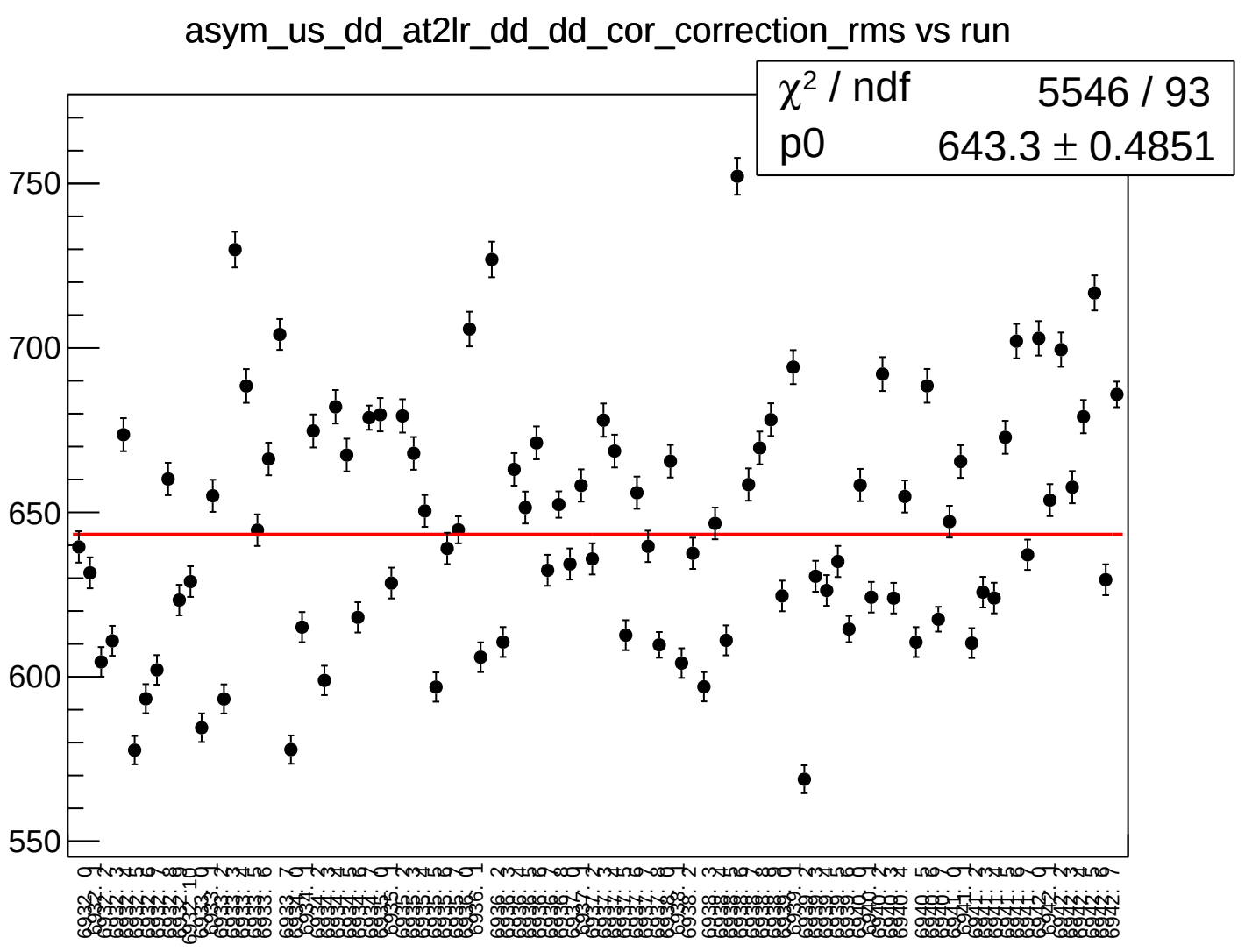

pull1D
Entries 94
Mean 0.01068
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

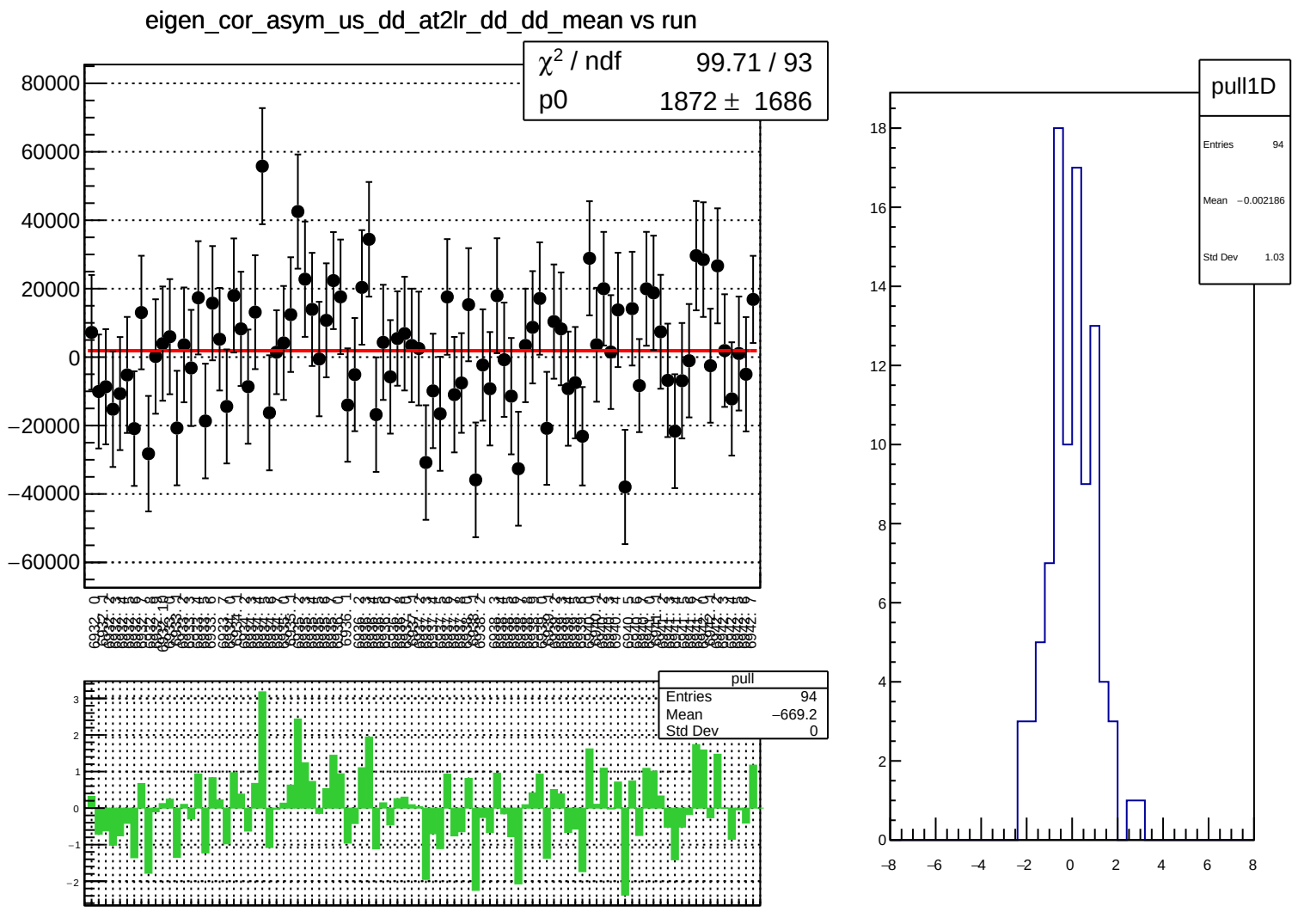

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5542 / 93
p0 643.3 ± 0.4851
750
700
650
600
550

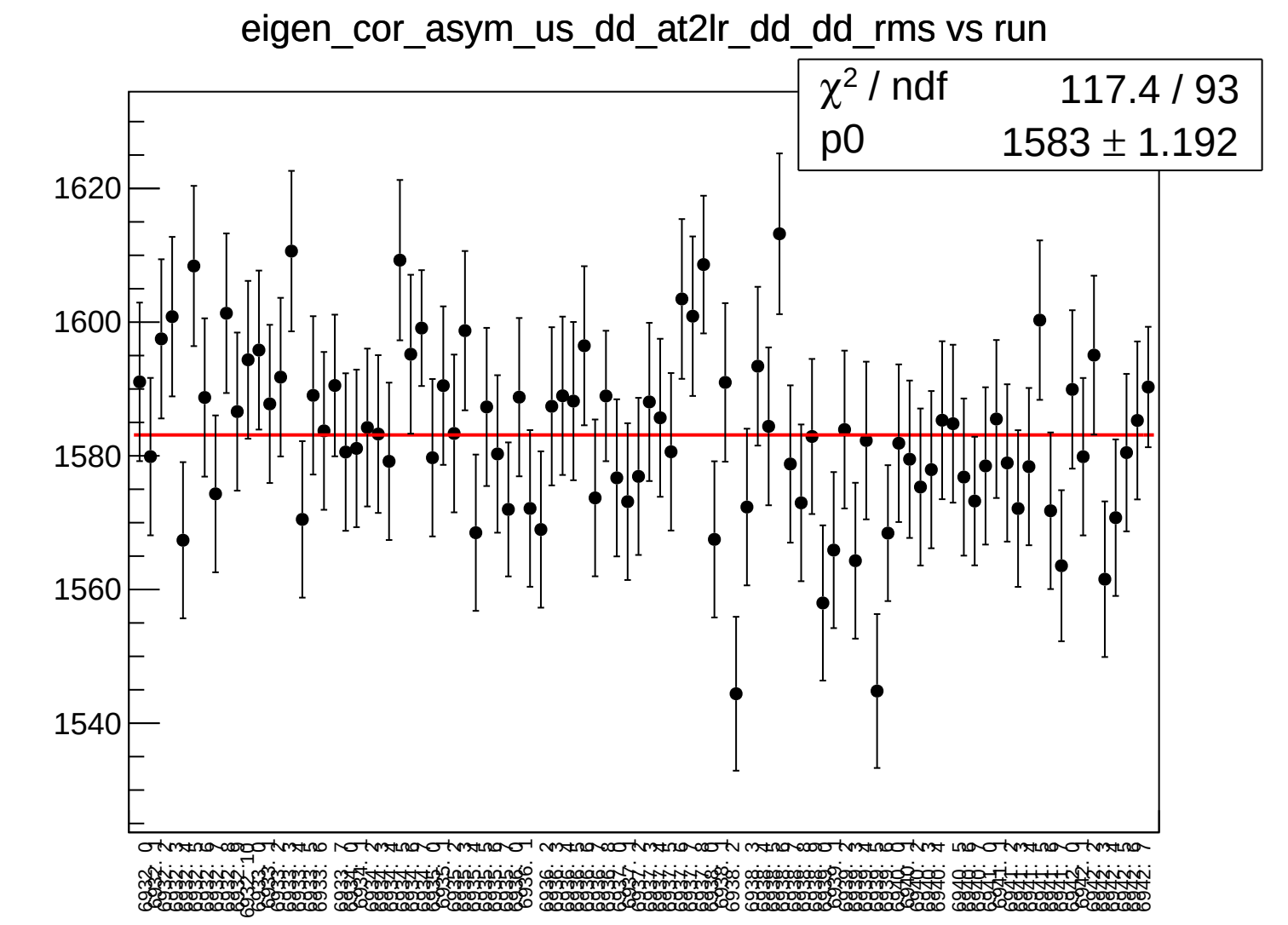

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 99.71 / 93
p0 1872 ± 1686
pull
Entries 94
Mean −669.2
Std Dev 0
pull1D
Entries 94
Mean −0.002186
Std Dev 1.03

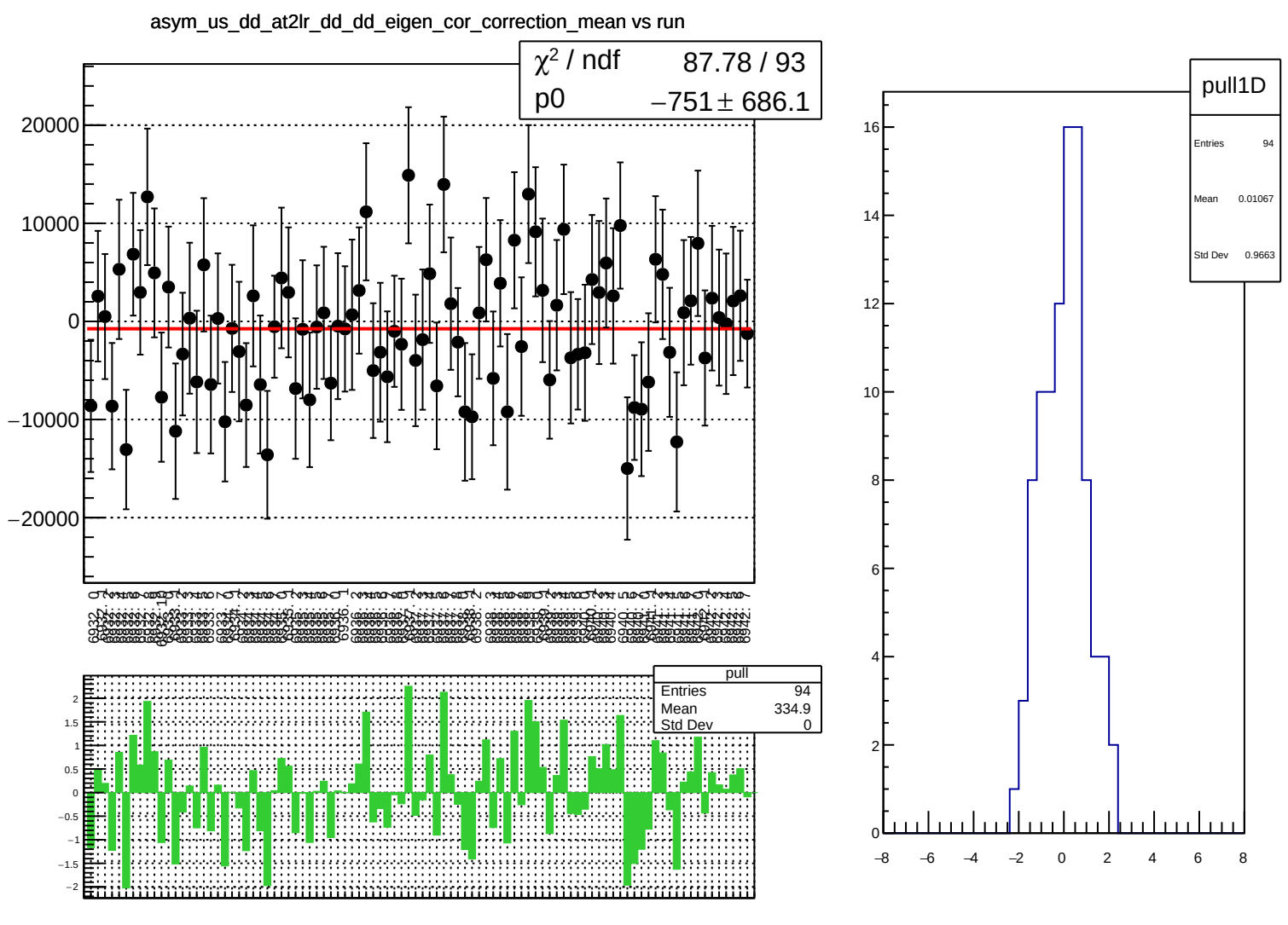

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 117.4 / 93
p0 1583 ± 1.192
1620
1600
1580
1560
1540

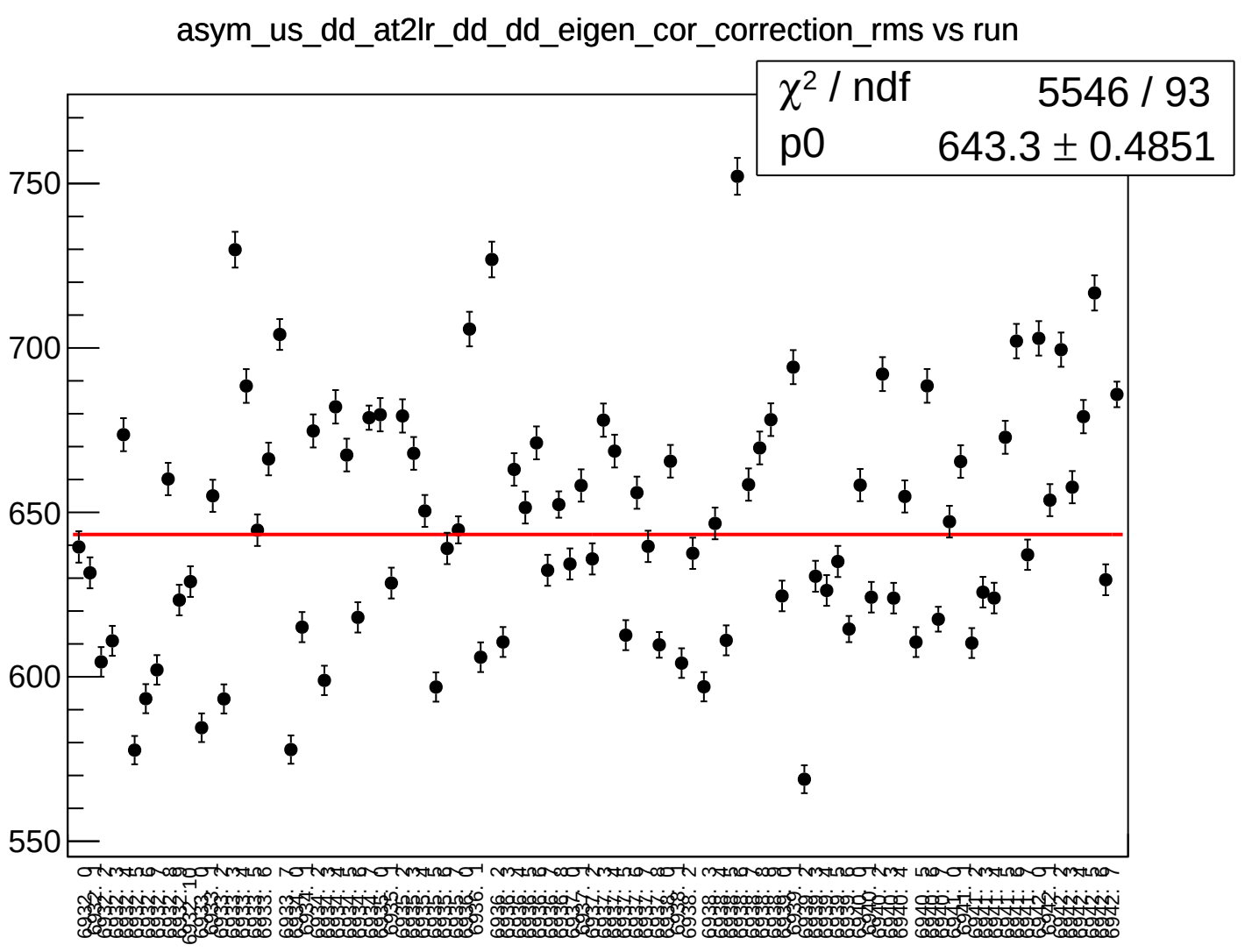

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.78 / 93
p0 −751 ± 686.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 334.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01067
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

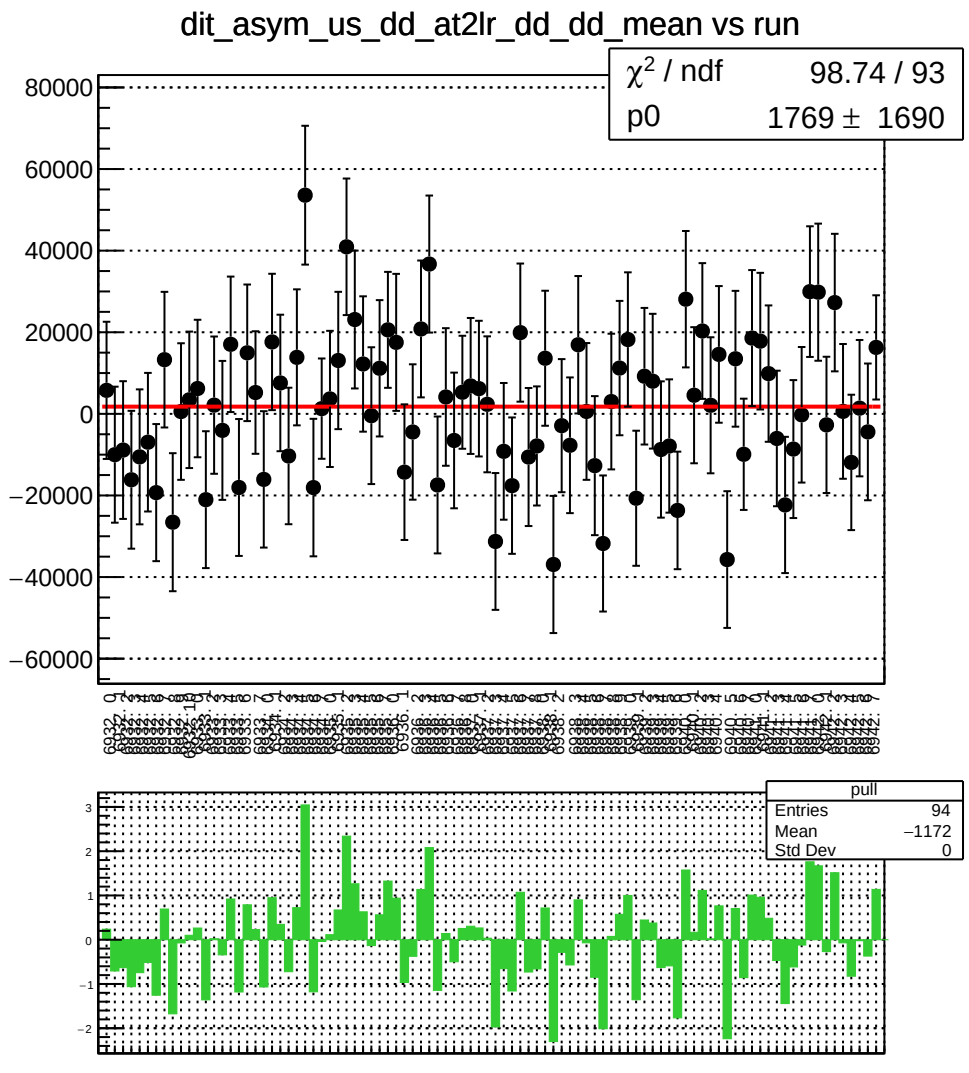

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5546 / 93
p0 643.3 ± 0.4851
750
700
650
600
550

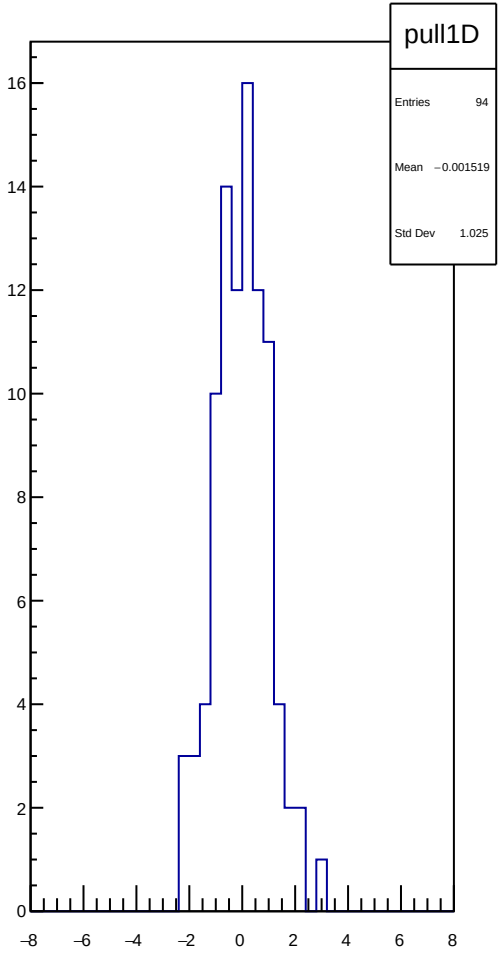

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 99.71 / 93
p0 1872 ± 1686
pull
Entries 94
Mean −669.2
Std Dev 0
pull1D
Entries 94
Mean −0.002186
Std Dev 1.03

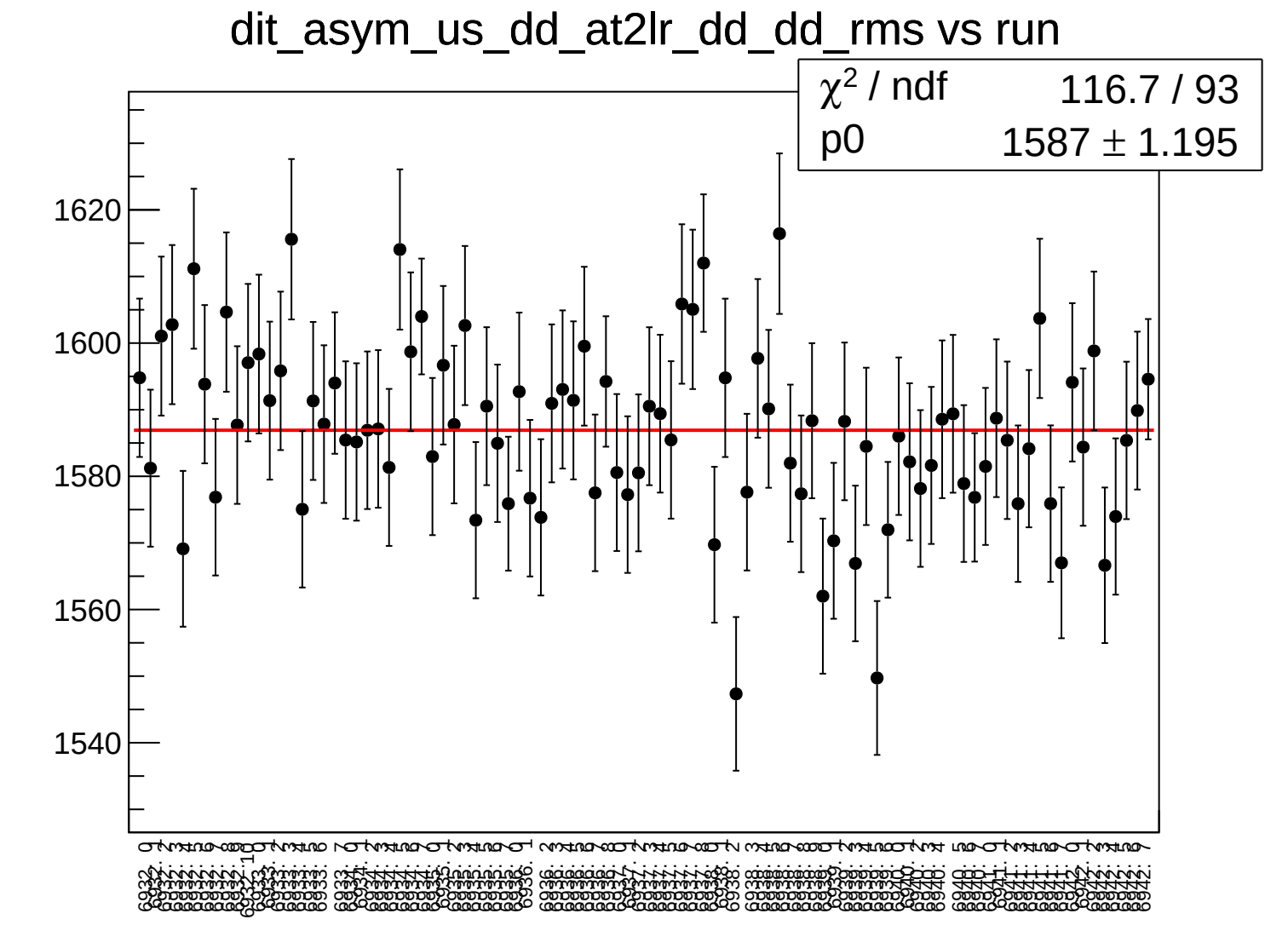

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 117.4 / 93
p0 1583 ± 1.192
1620
1600
1580
1560
1540

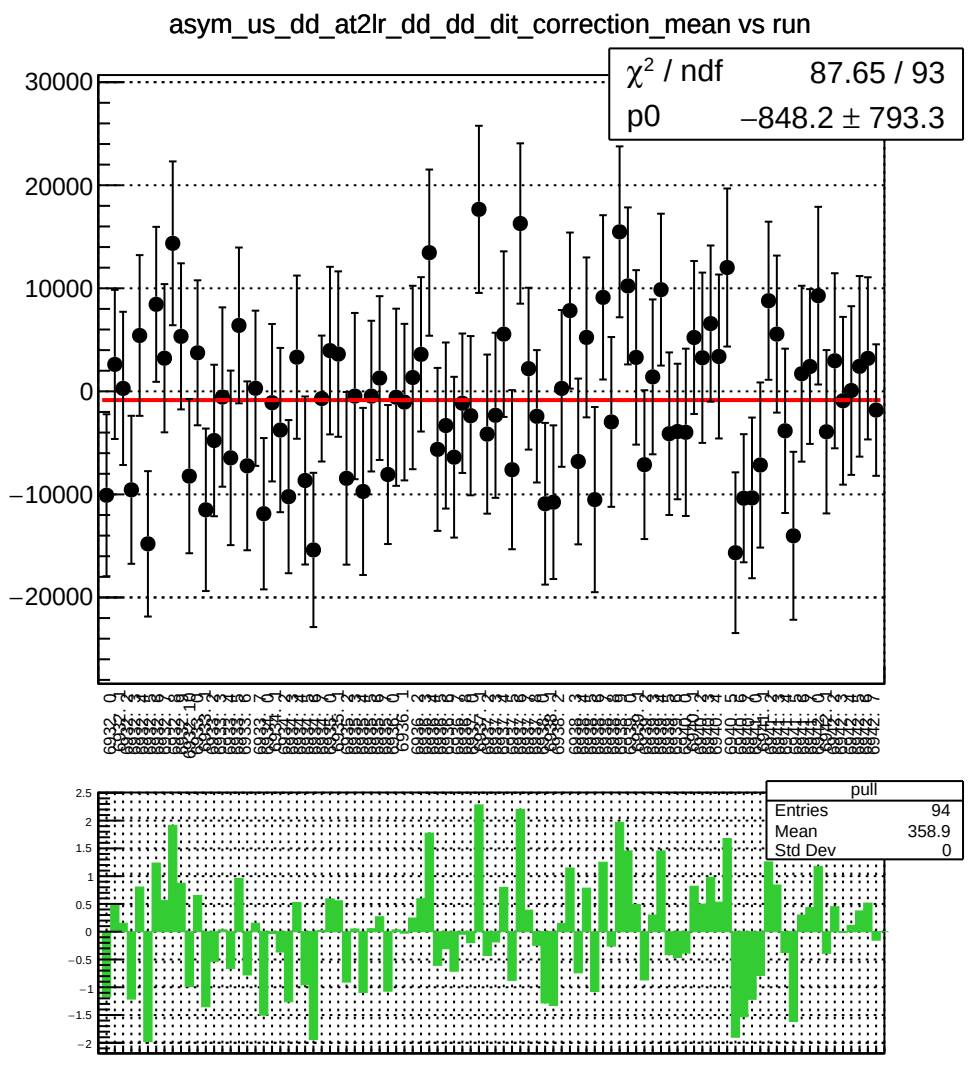

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.78 / 93
p0 −751 ± 686.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 334.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01067
Std Dev 0.9663
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

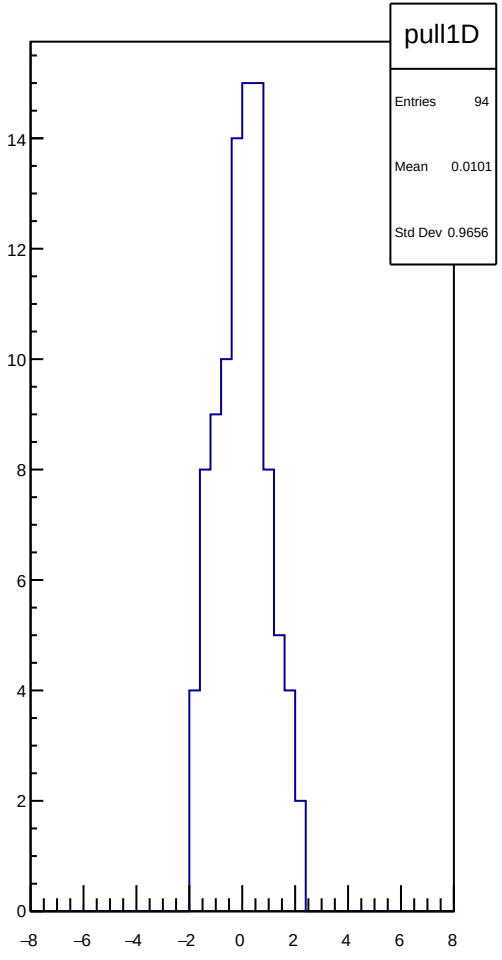

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5546 / 93
p0 643.3 ± 0.4851
750
700
650
600
550

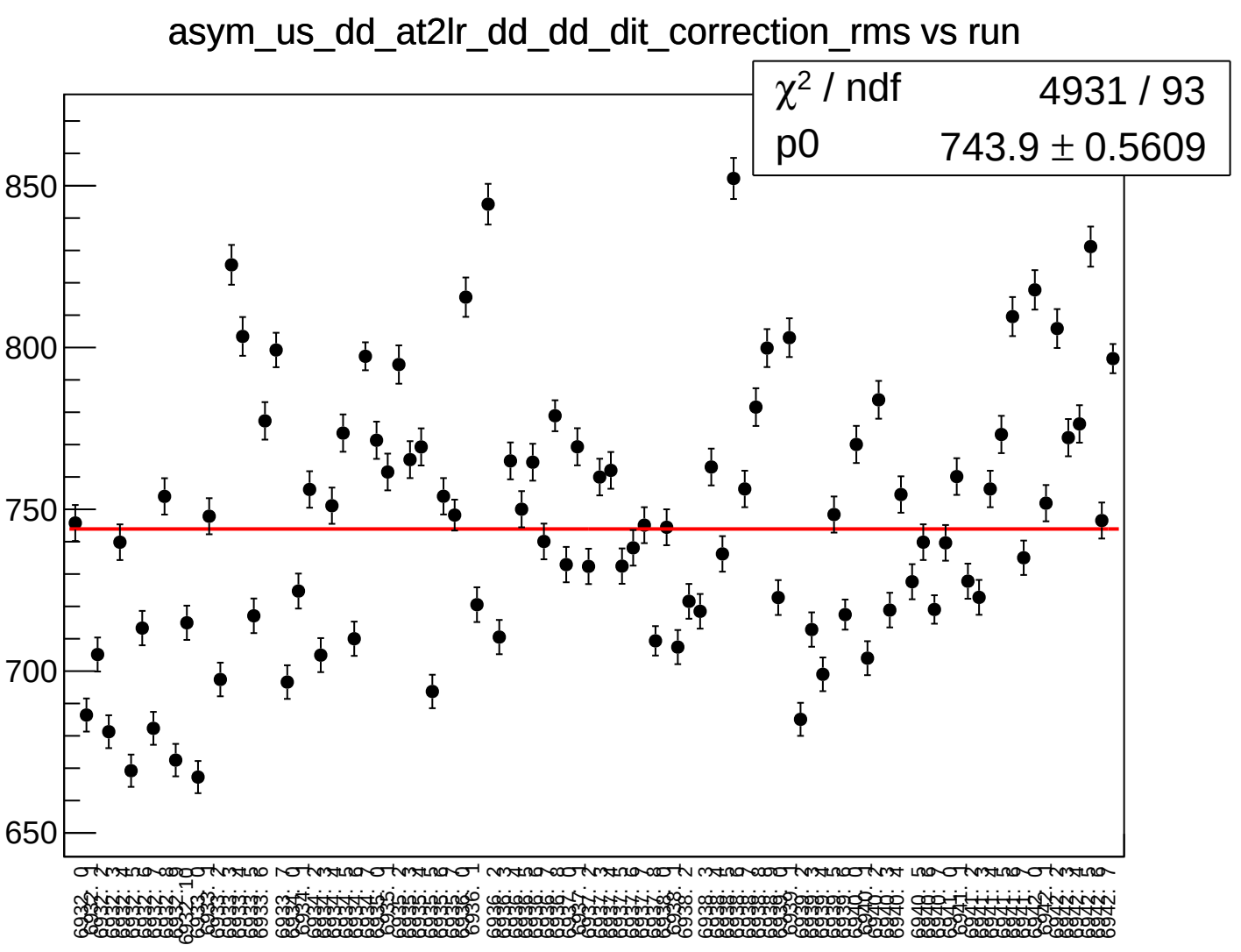

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.74 / 93
p0 1769 ± 1690
pull
Entries 94
Mean −1172
Std Dev 0

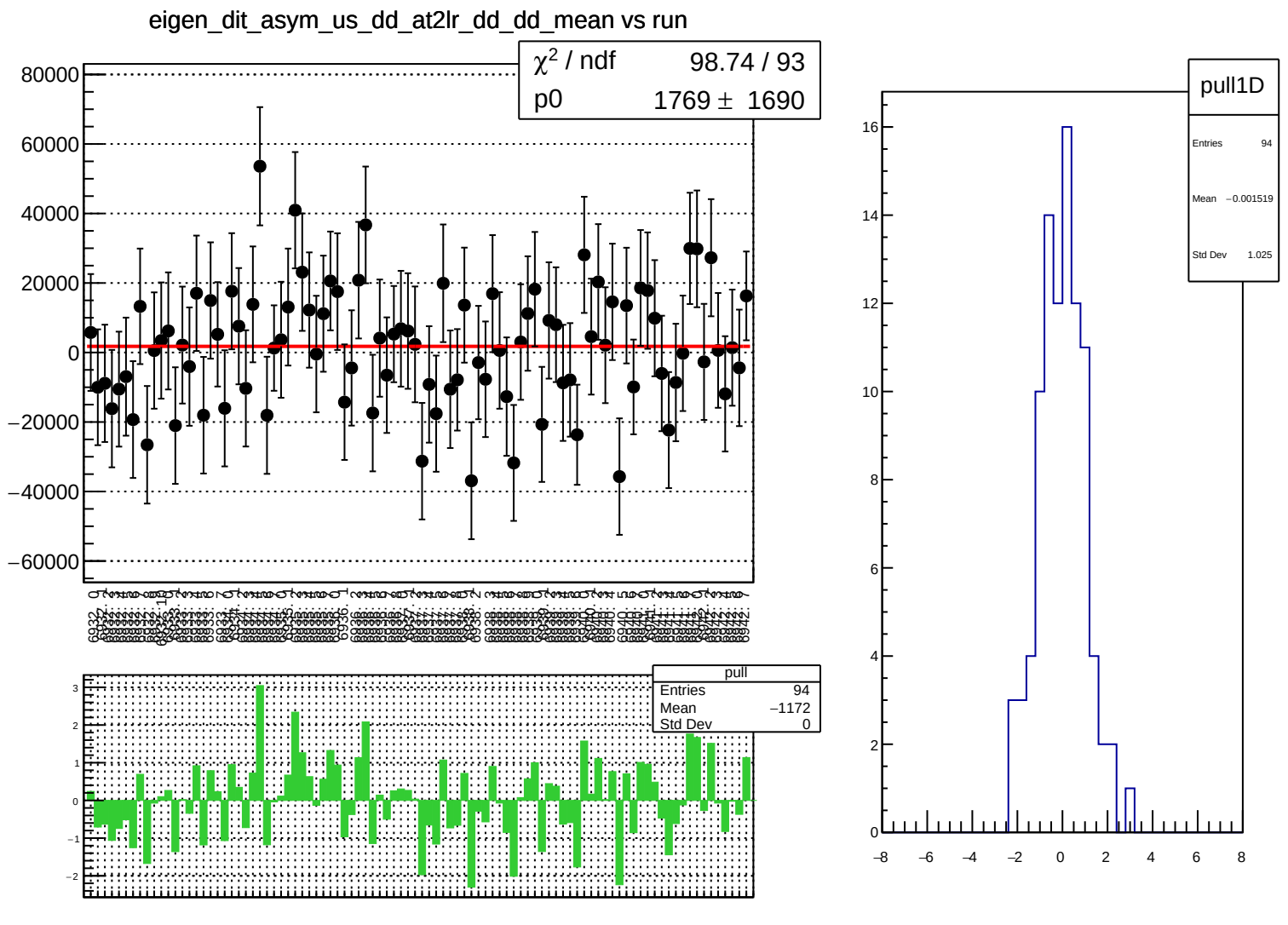

pull1D
Entries 94
Mean −0.001519
Std Dev 1.025

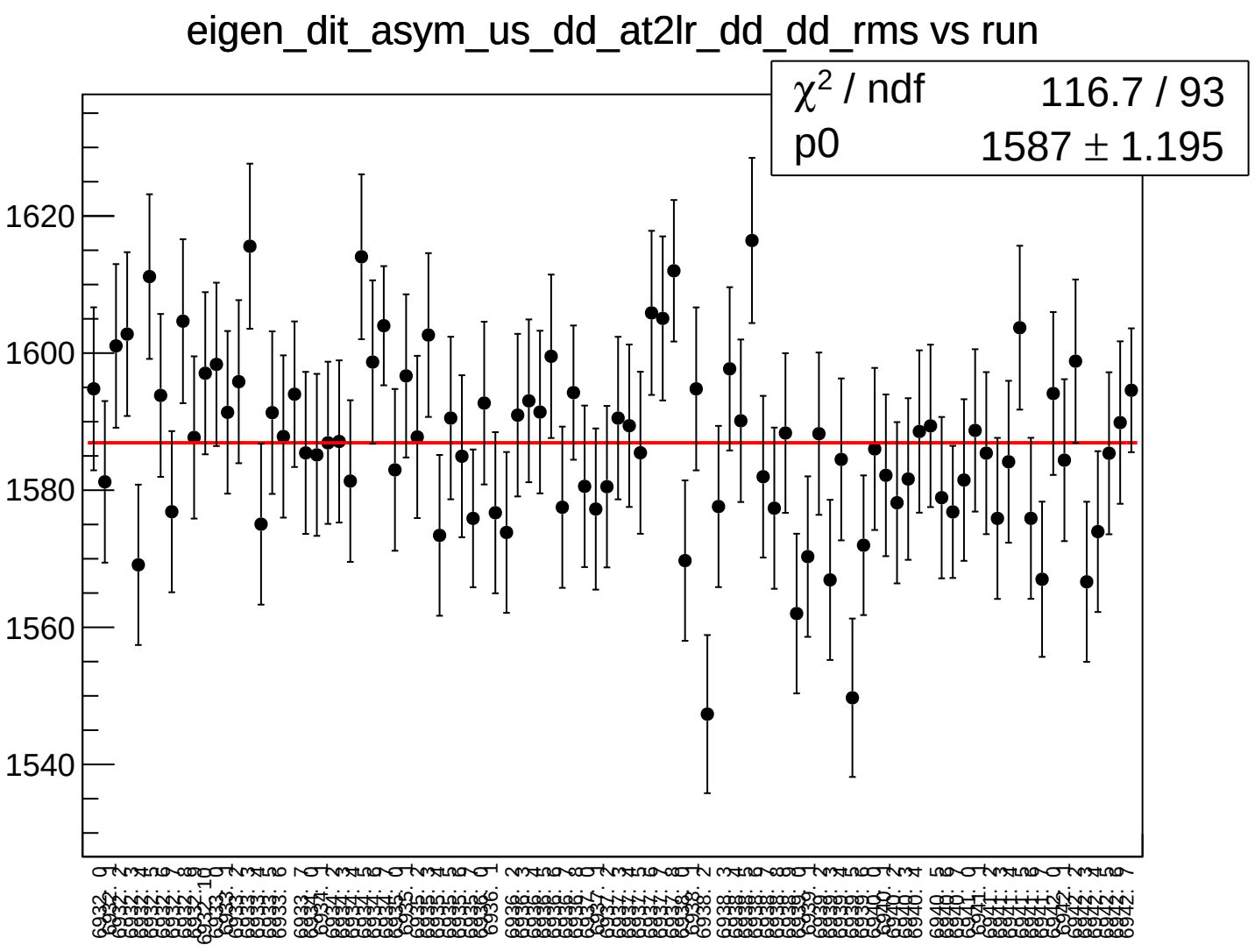

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 116.7 / 93
p0 1587 ± 1.195
1620
1600
1580
1560
1540

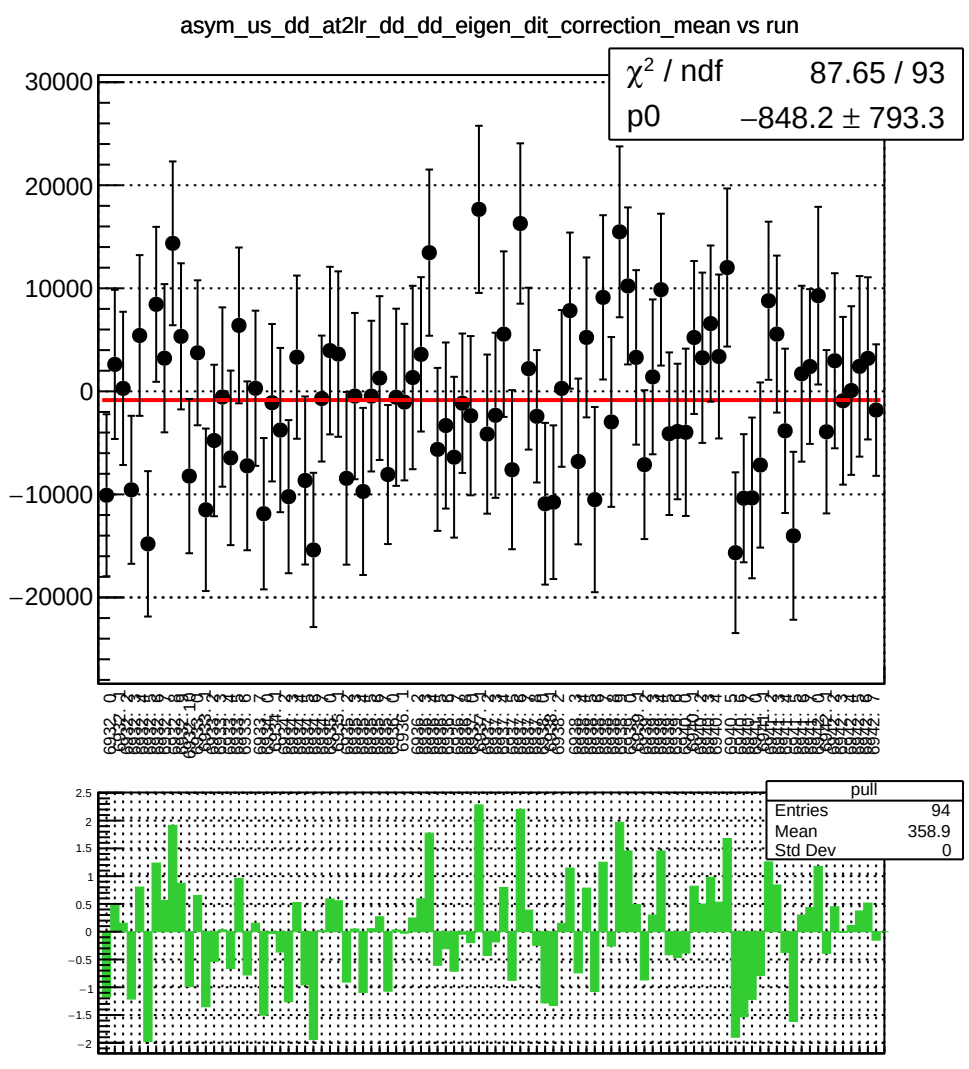

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.65 / 93
p0 −848.2 ± 793.3
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 358.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

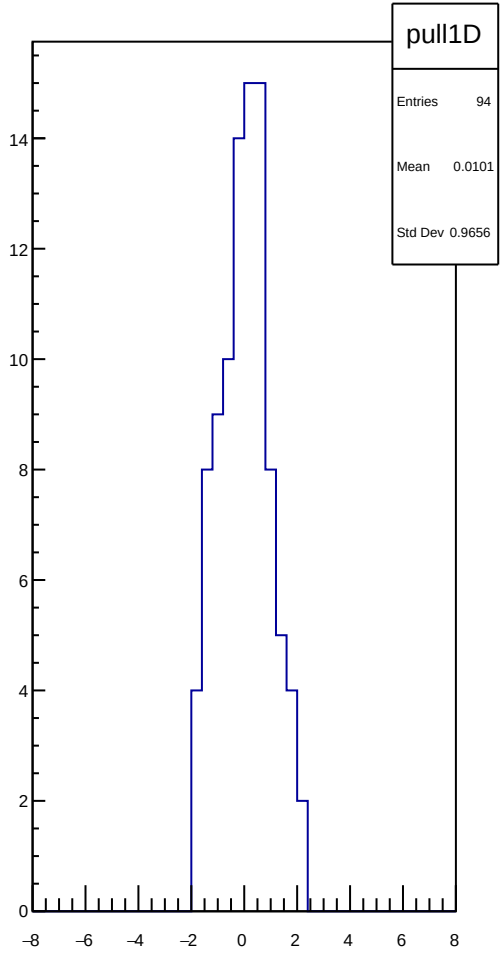

pull1D
Entries 94
Mean 0.0101
Std Dev 0.9656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

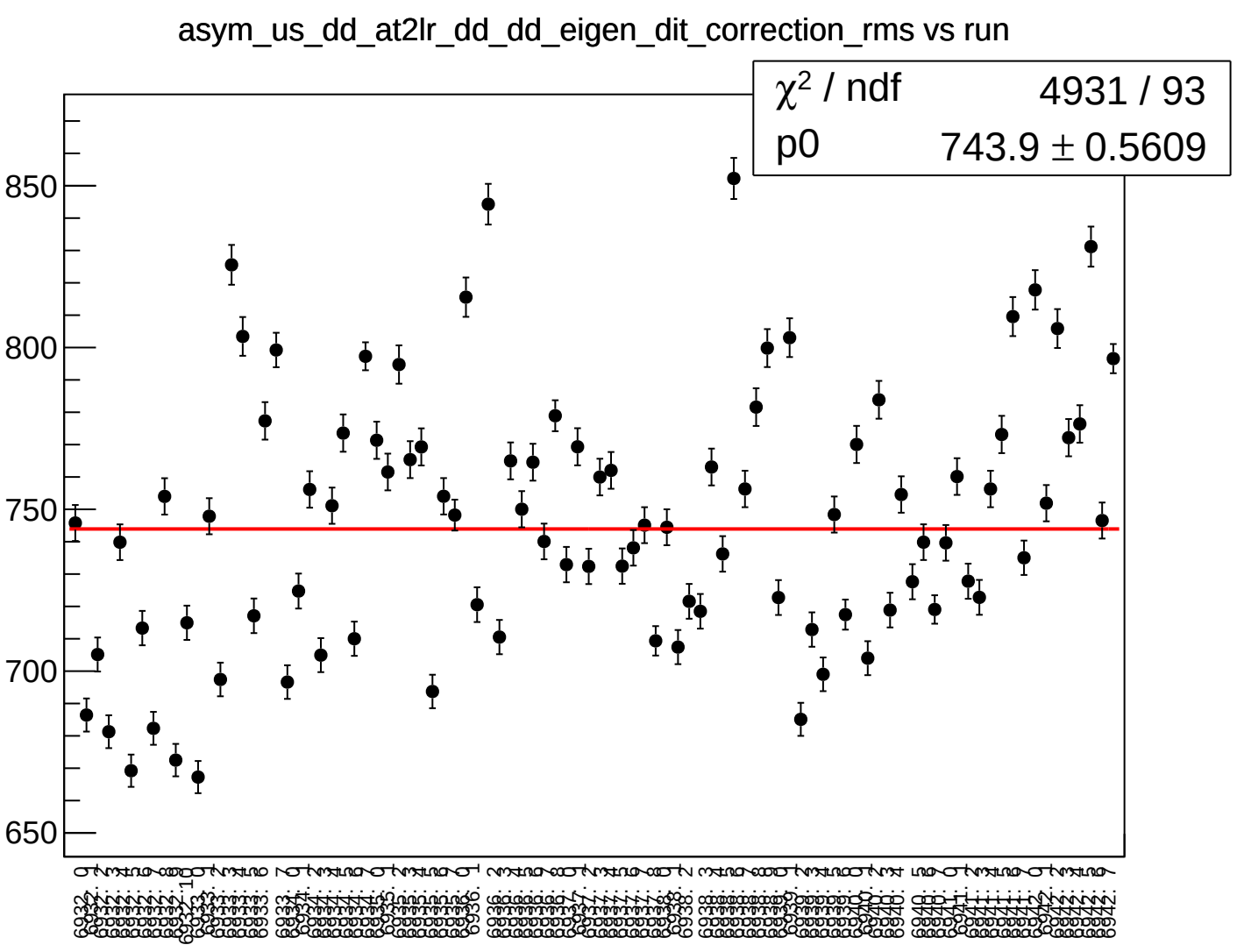

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4931 / 93
p0 743.9 ± 0.5609
850
800
750
700
650

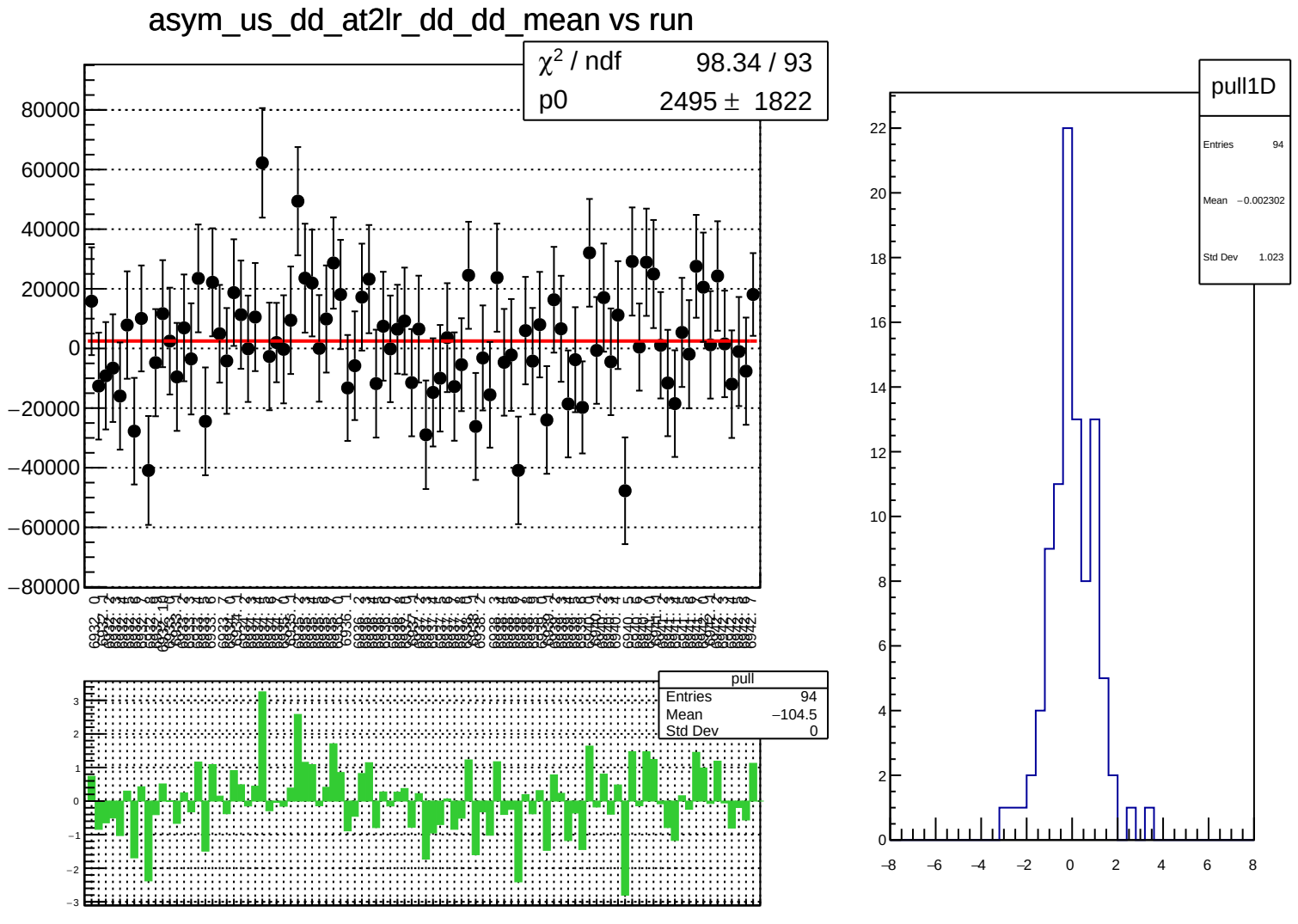

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.74 / 93
p0 1769 ± 1690
pull
Entries 94
Mean −1172
Std Dev 0
pull1D
Entries 94
Mean −0.001519
Std Dev 1.025

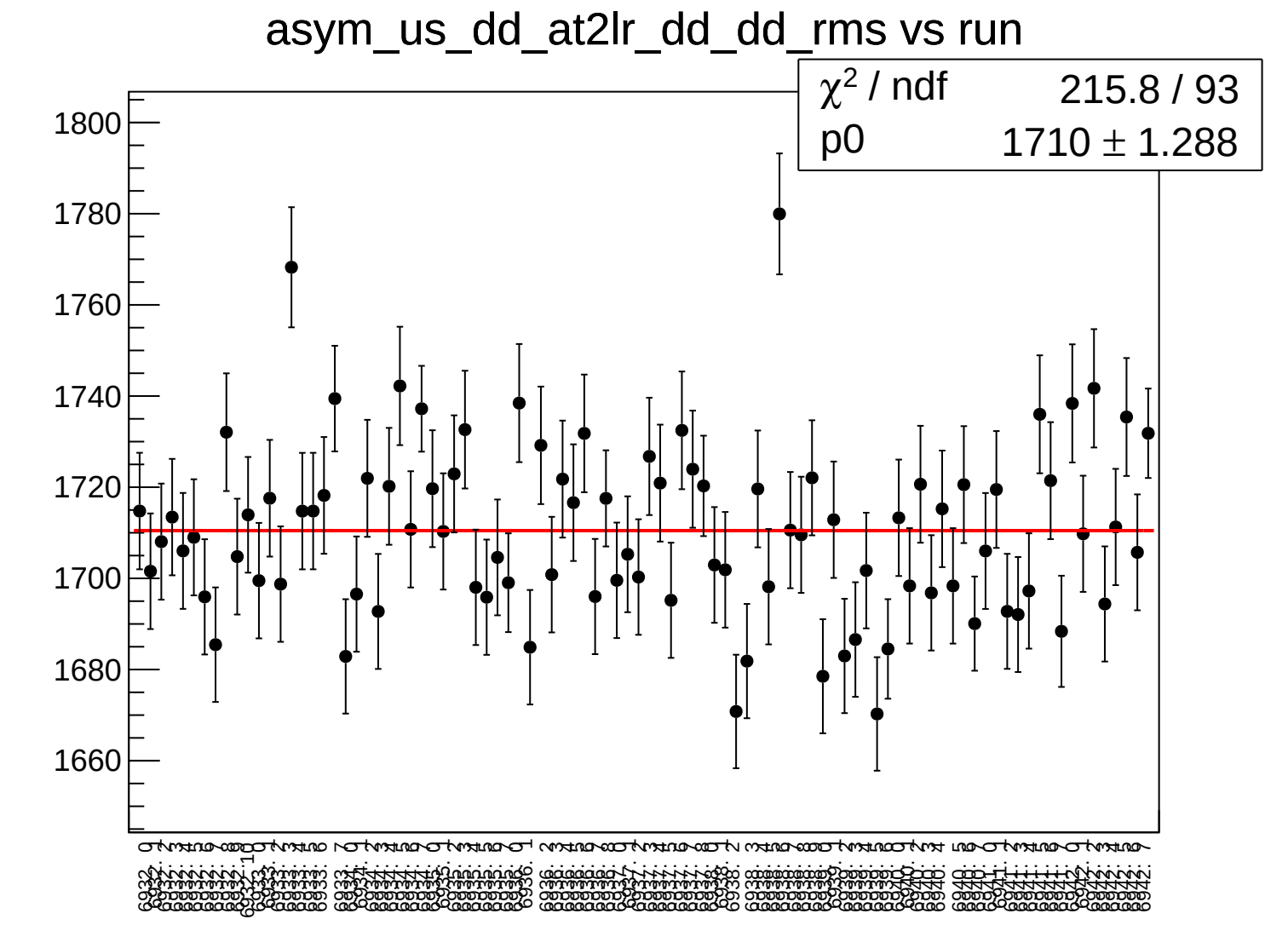

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 116.7 / 93
p0 1587 ± 1.195
1620
1600
1580
1560
1540

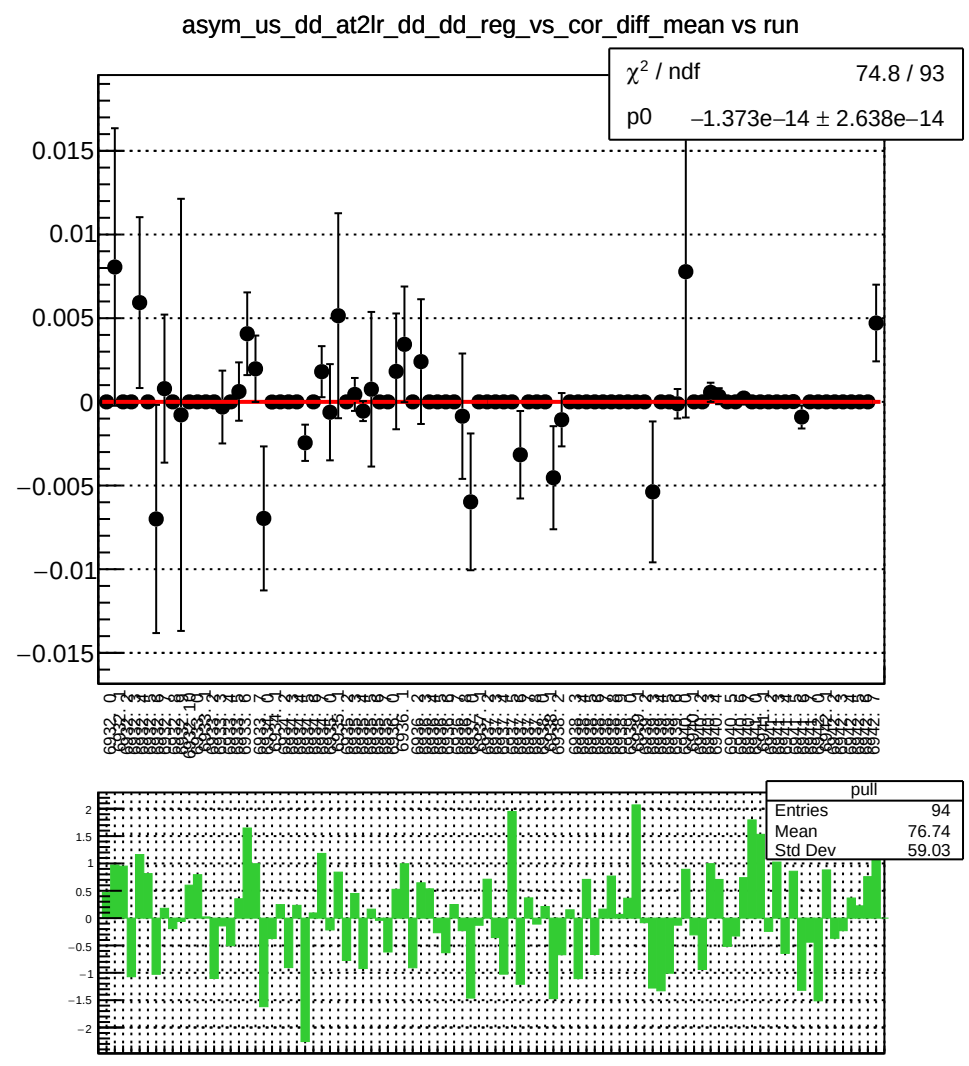

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.65 / 93
p0 −848.2 ± 793.3
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 358.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

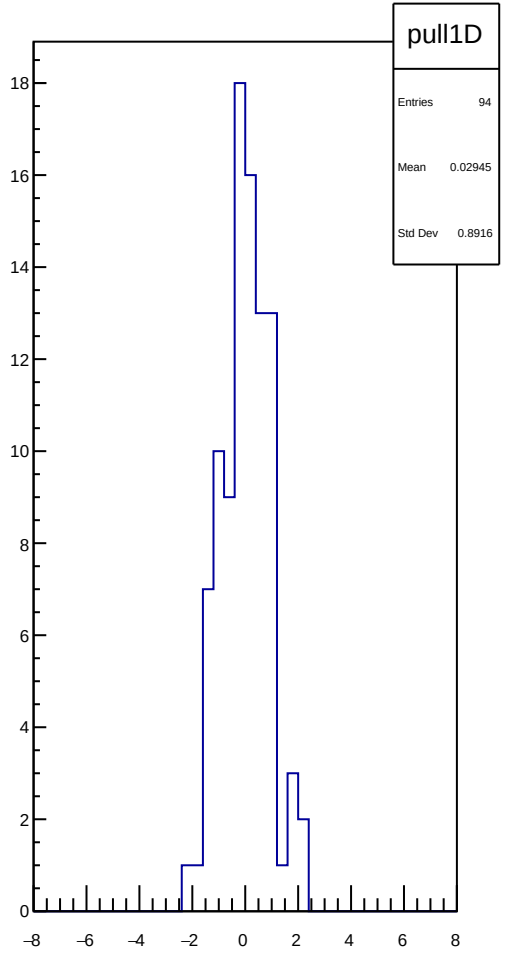

pull1D
Entries 94
Mean 0.0101
Std Dev 0.9656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

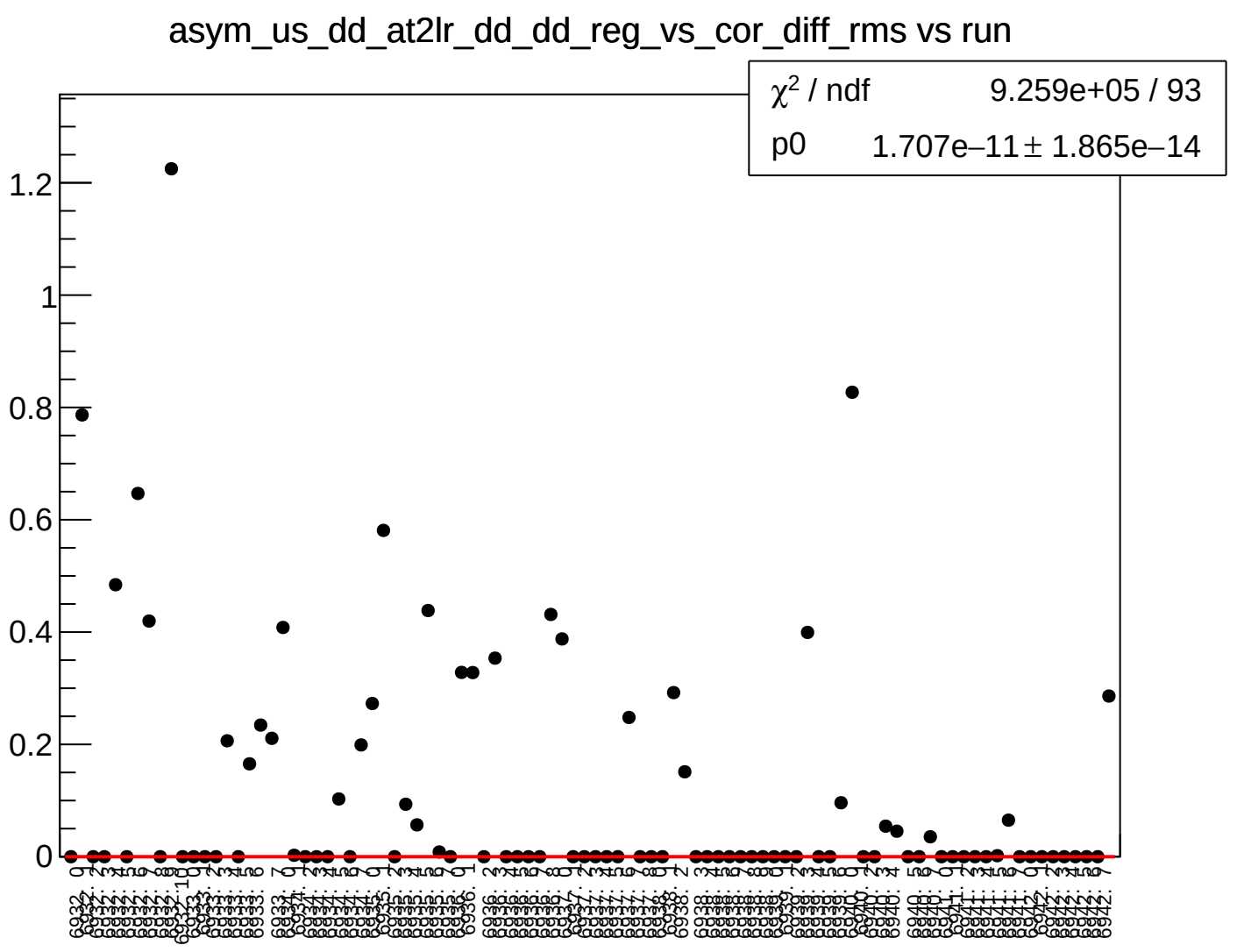

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4931 / 93
p0 743.9 ± 0.5609
850
800
750
700
650

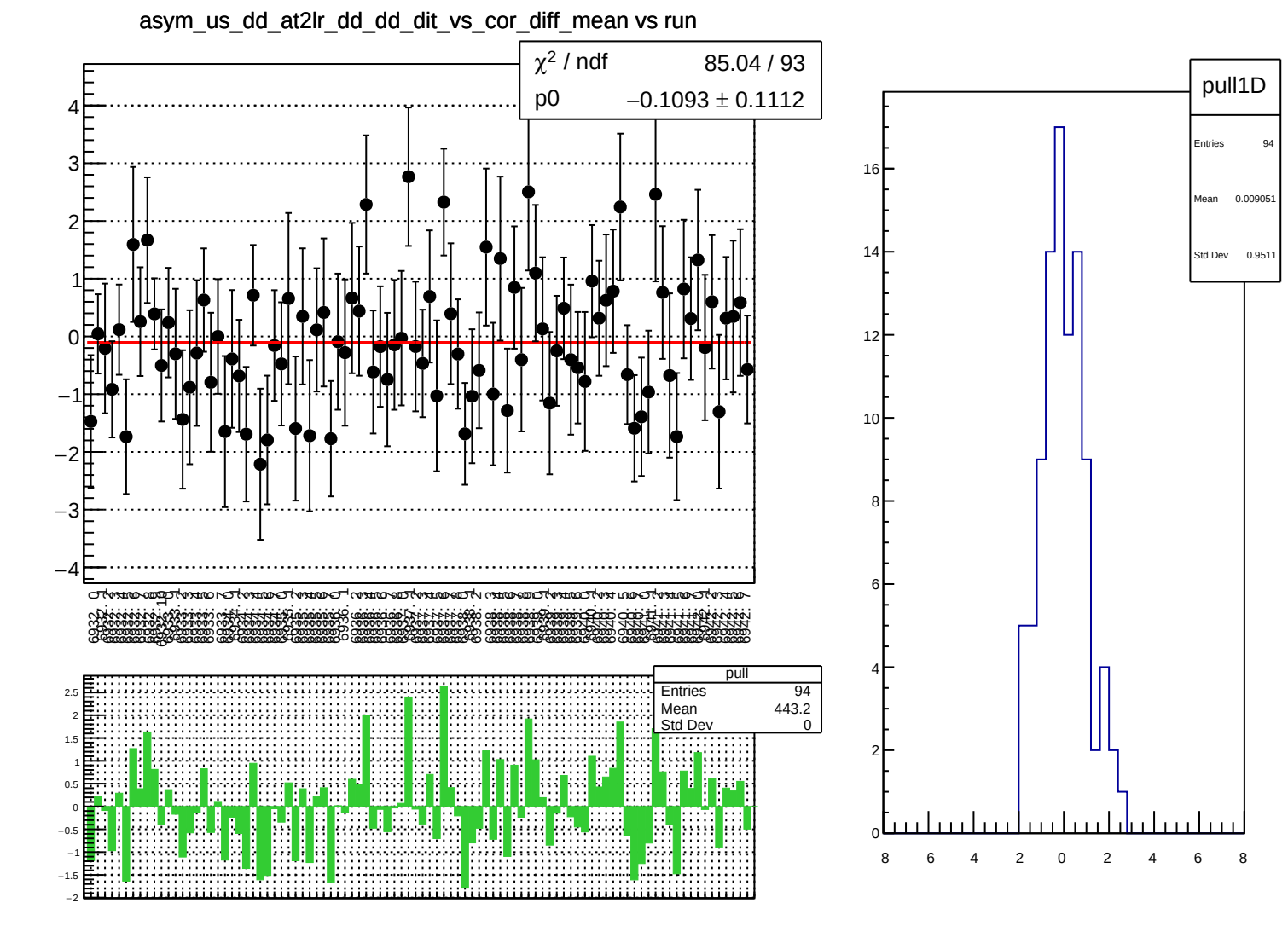

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 98.34 / 93
p0 2495 ± 1822
pull
Entries 94
Mean −104.5
Std Dev 0
pull1D
Entries 94
Mean −0.002302
Std Dev 1.023

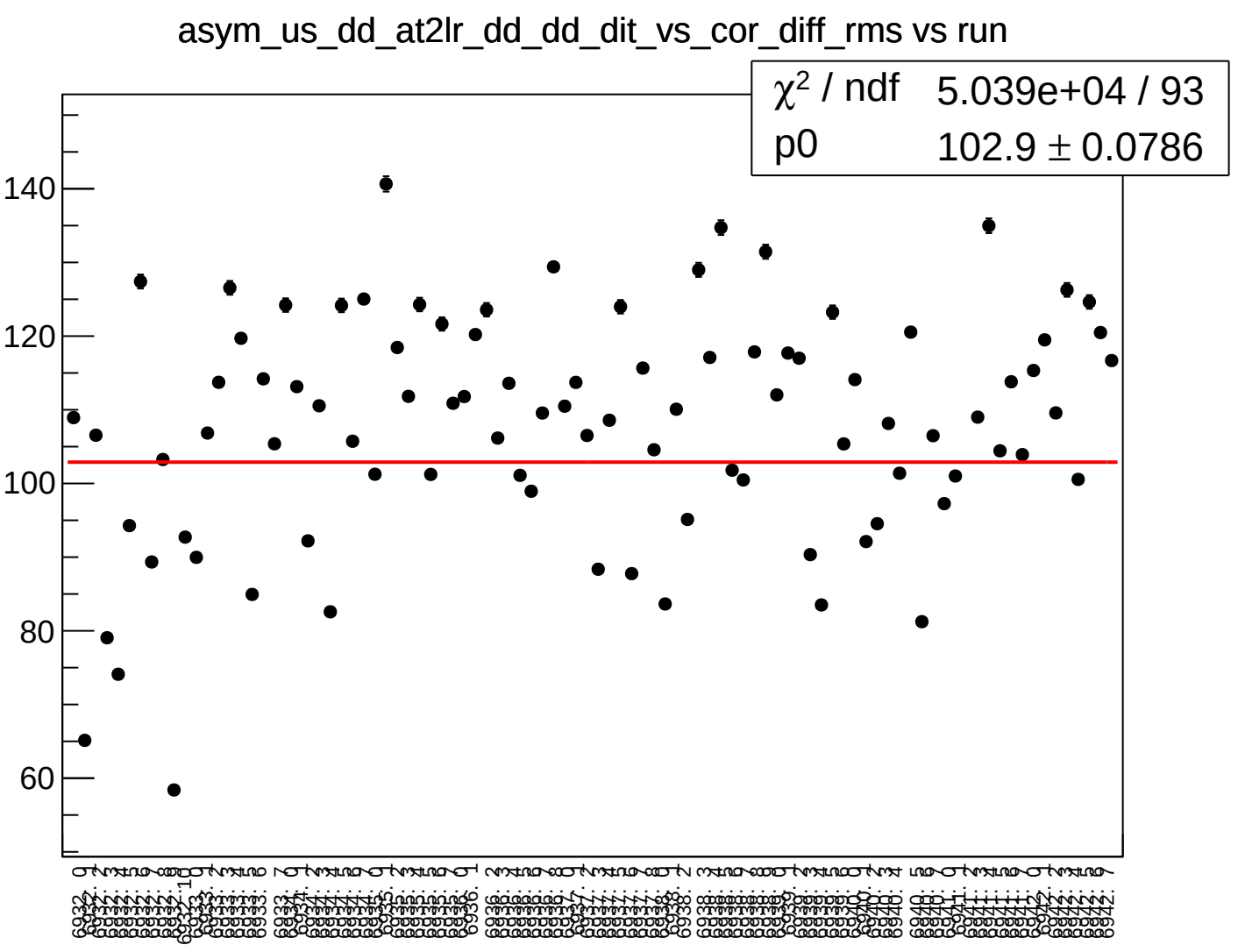

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 215.8 / 93
p0 1710 ± 1.288
1800
1780
1760
1740
1720
1700
1680
1660

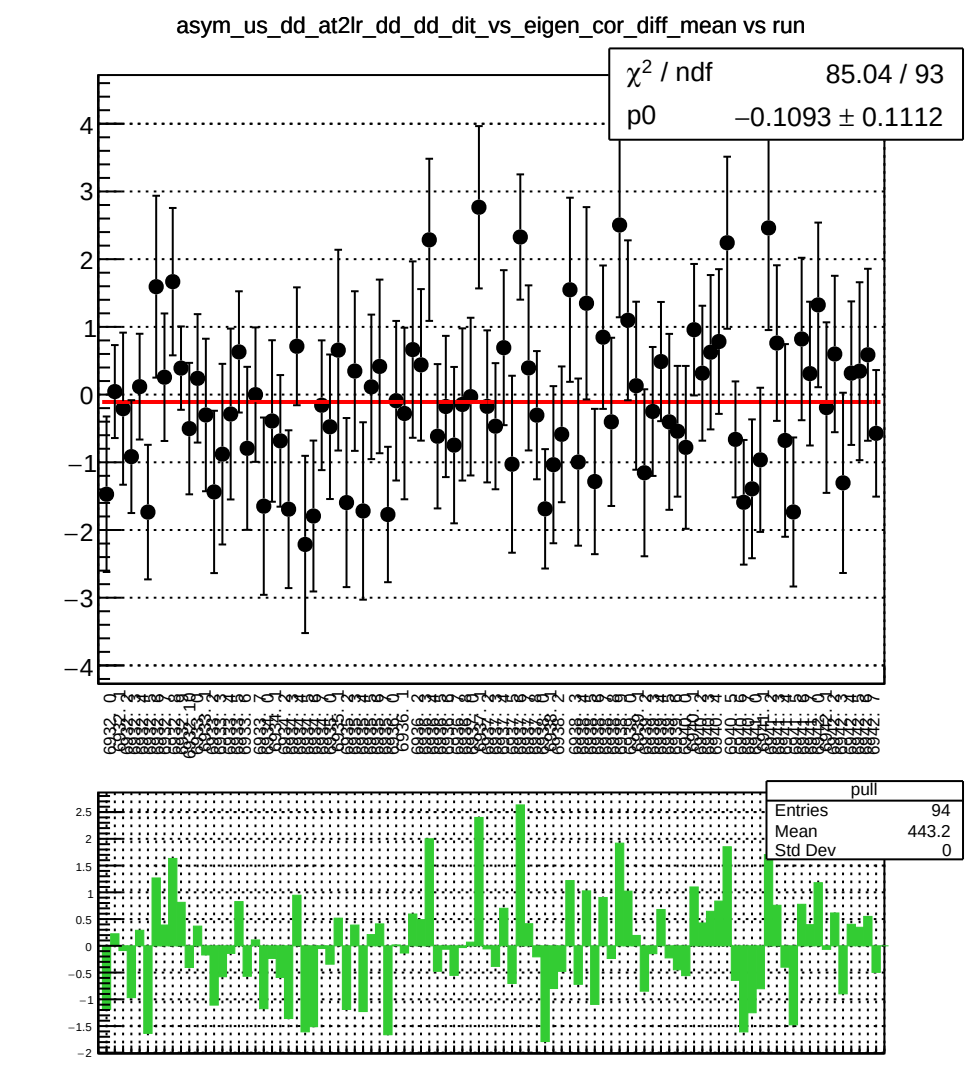

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.8 / 93
p0 −1.373e−14 ± 2.638e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 76.74
Std Dev 59.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

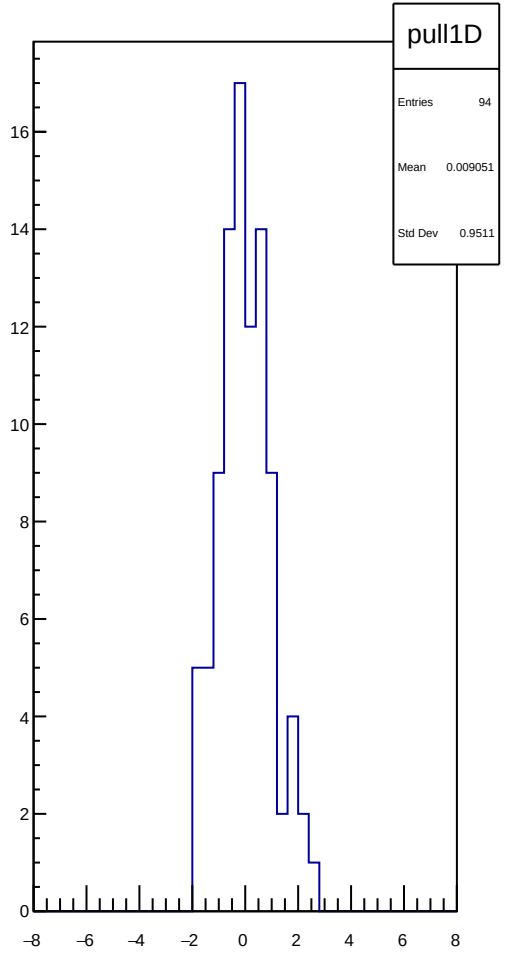

pull1D
Entries 94
Mean 0.02945
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

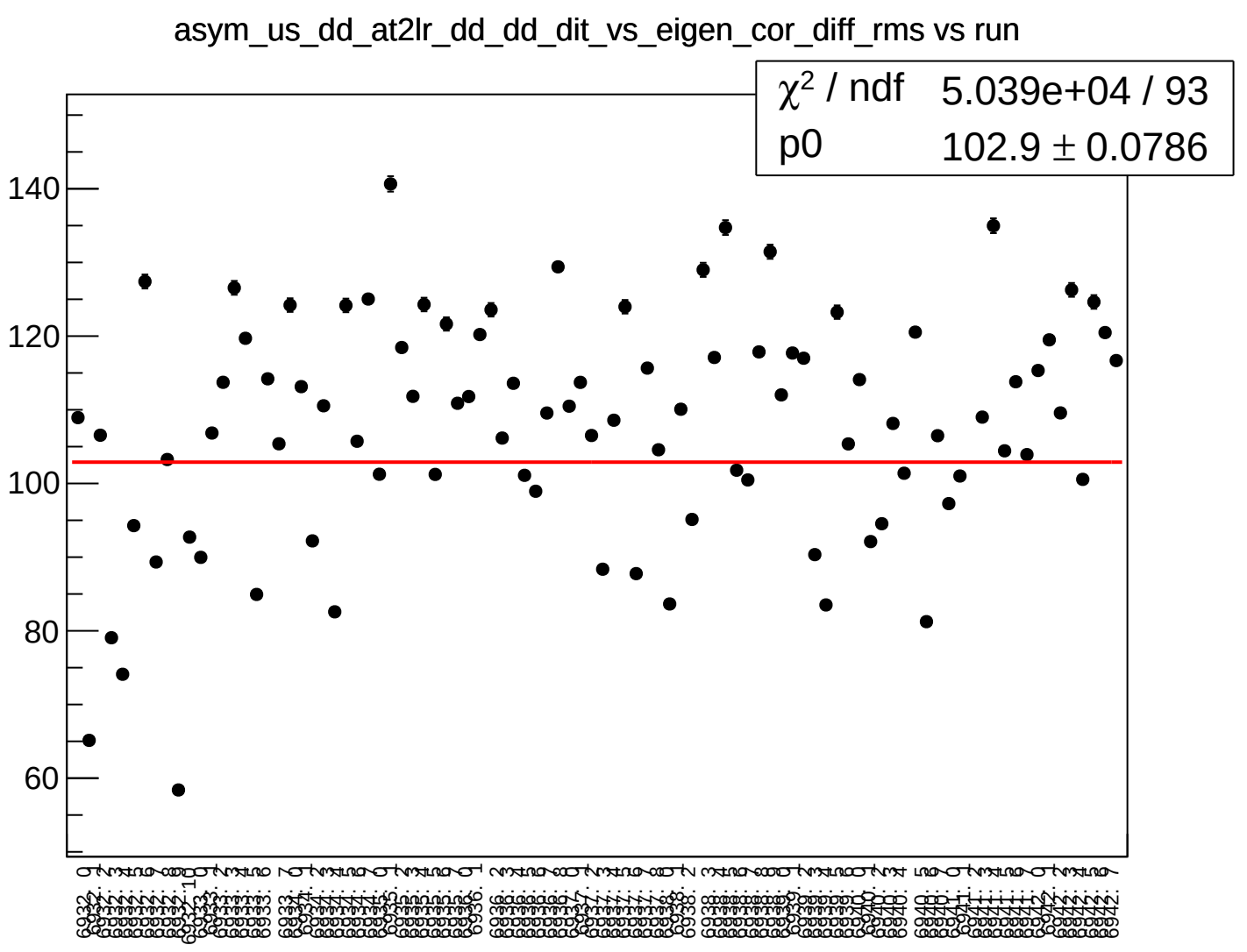

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.259e+05 / 93
p0 1.707e−11 ± 1.865e−14
1.2
1
0.8
0.6
0.4
0.2
0

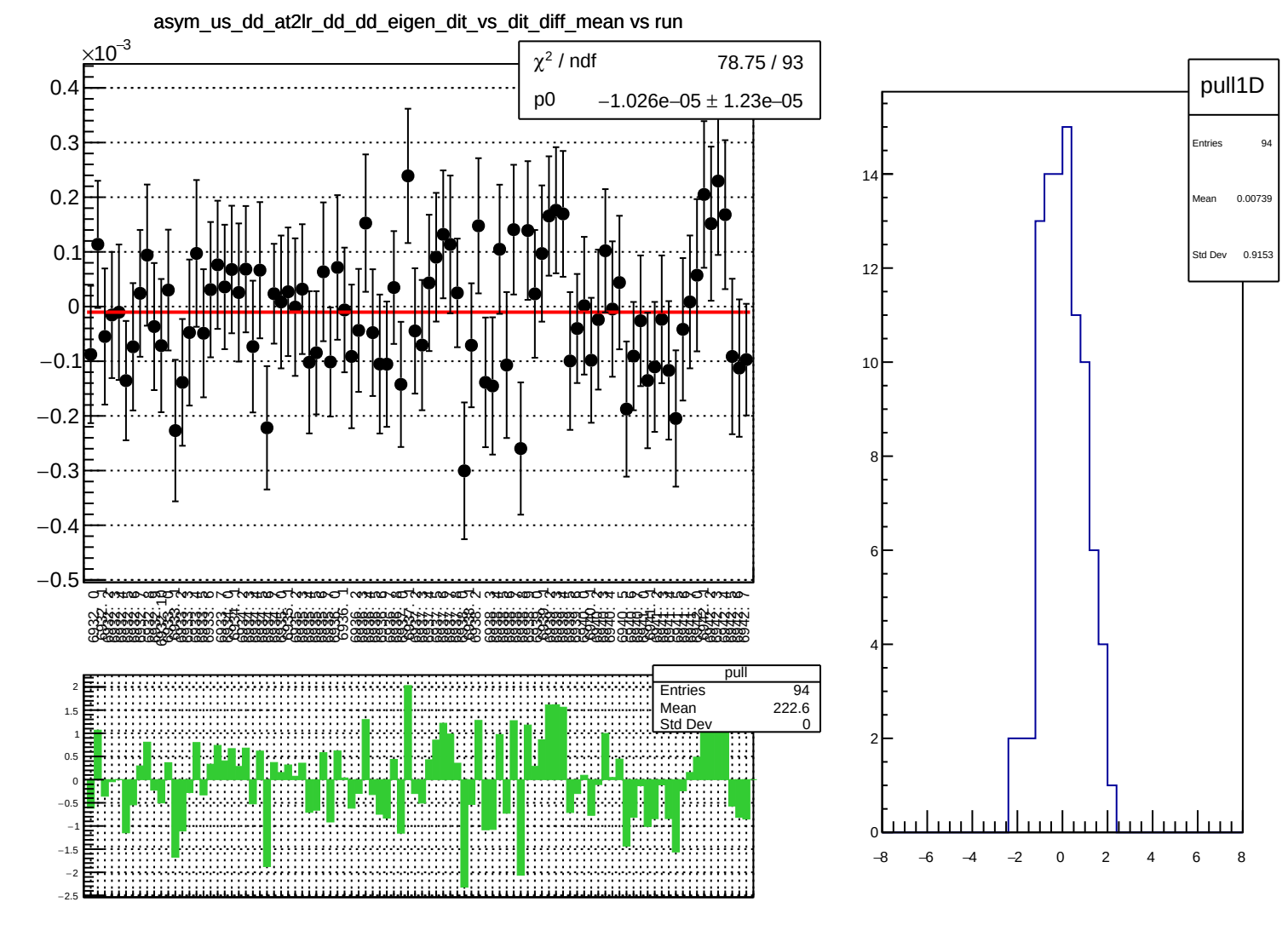

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 93
p0 −0.1093 ± 0.1112
pull
Entries 94
Mean 443.2
Std Dev 0
pull1D
Entries 94
Mean 0.009051
Std Dev 0.9511

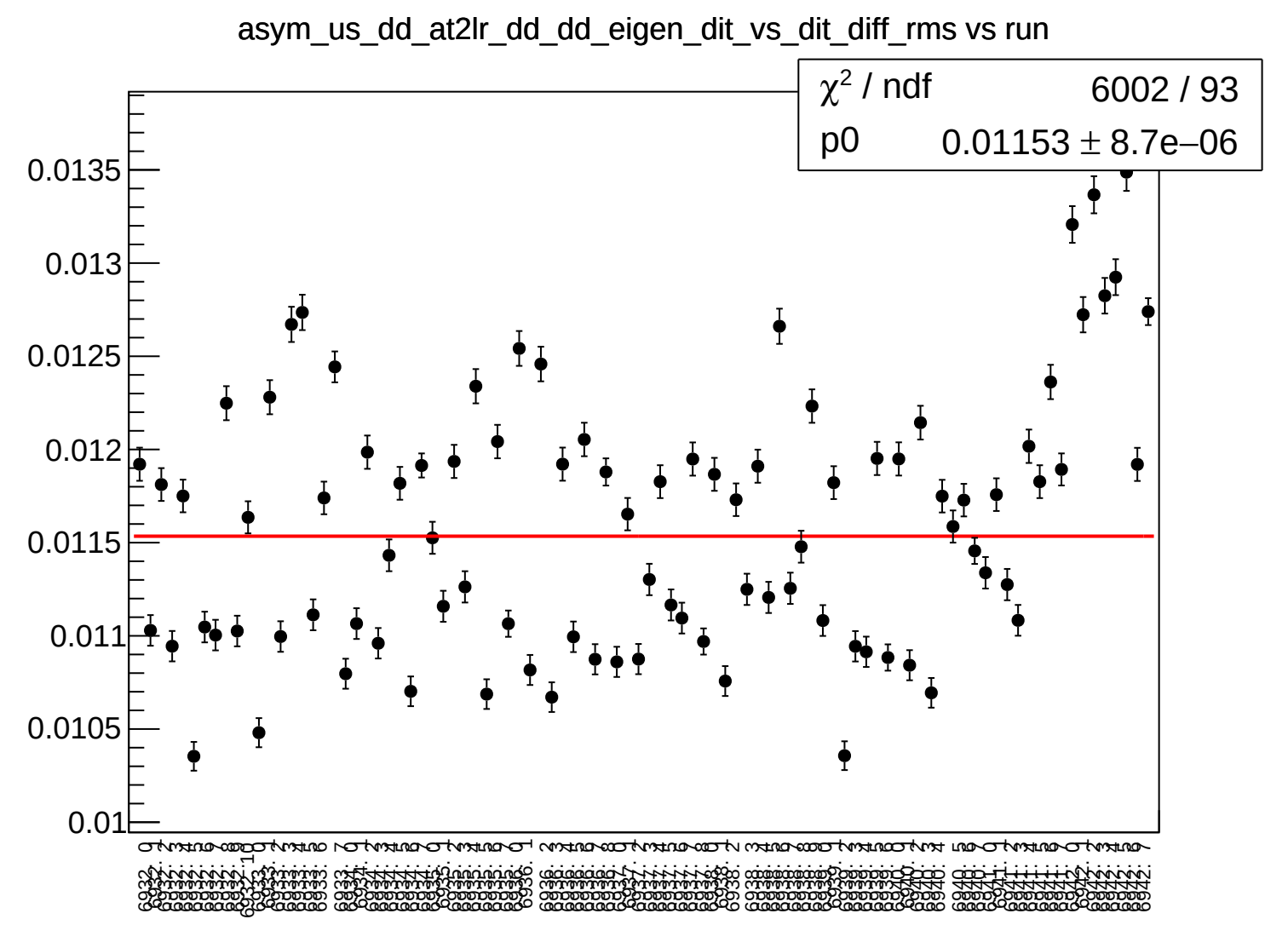

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 93
p0 102.9 ± 0.0786
140
120
100
80
60

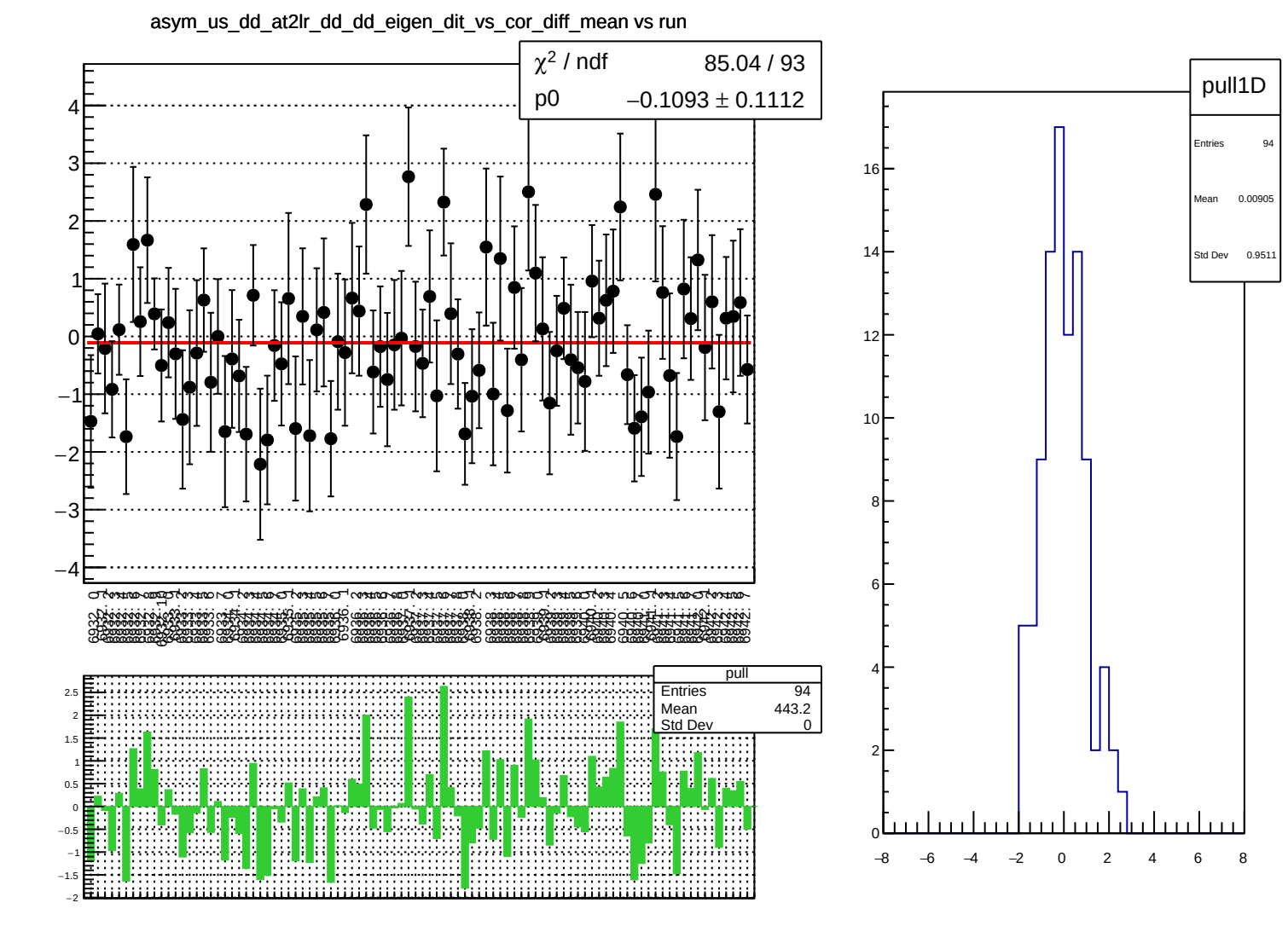

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 93
p0 −0.1093 ± 0.1112
pull
Entries 94
Mean 443.2
Std Dev 0

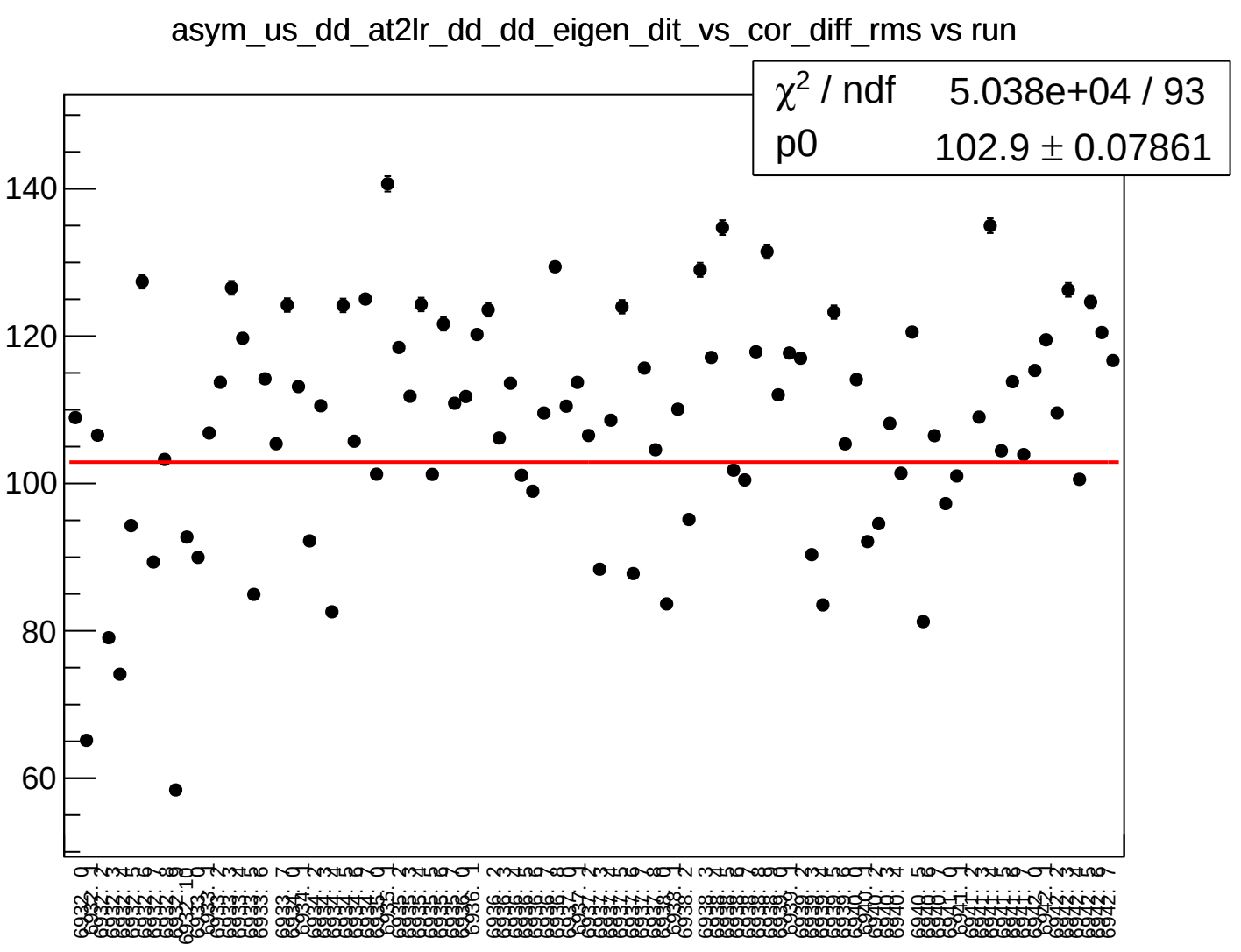

pull1D
Entries 94
Mean 0.009051
Std Dev 0.9511

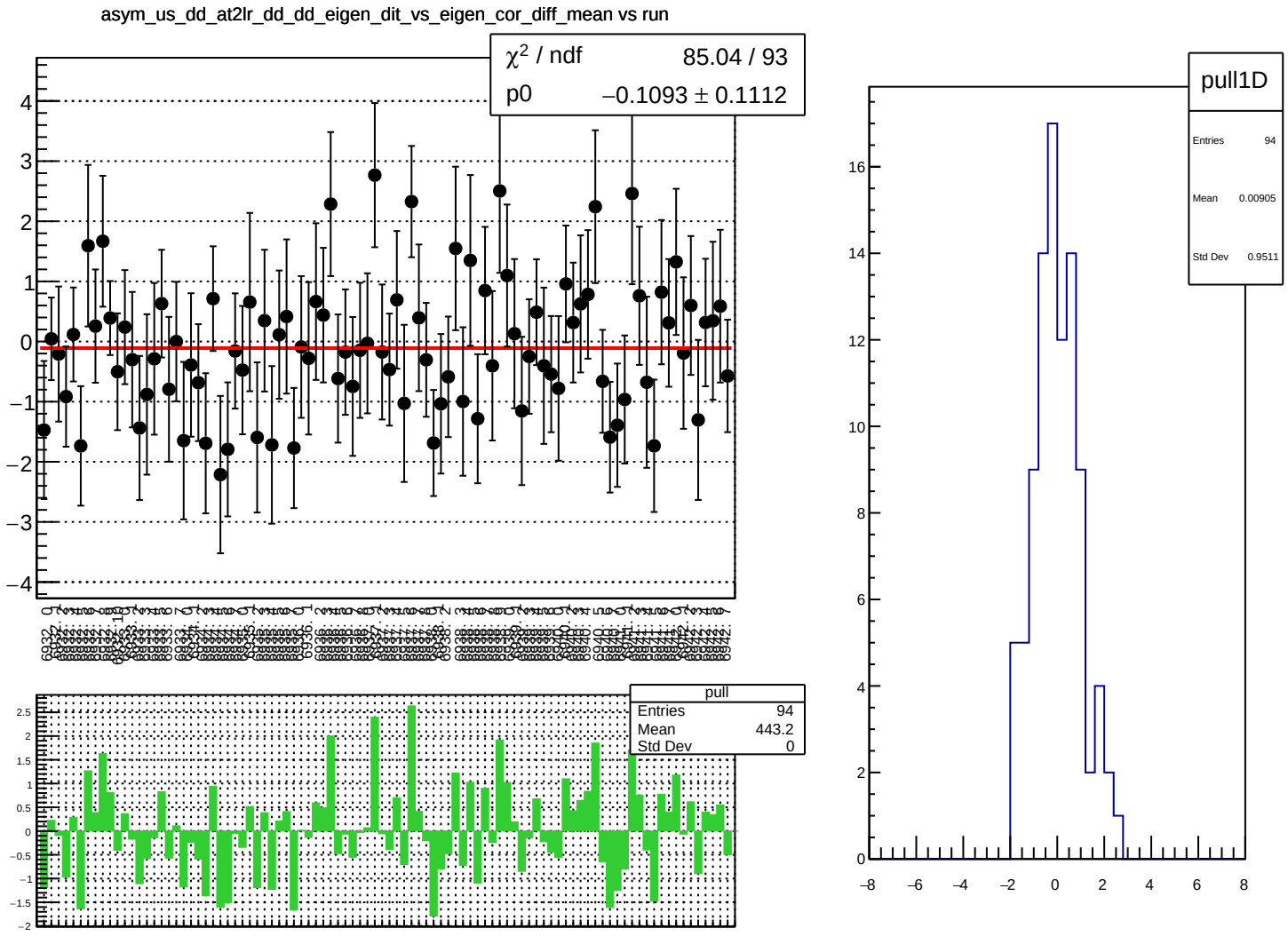

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.039e+04 / 93
p0 102.9 ± 0.0786
140
120
100
80
60

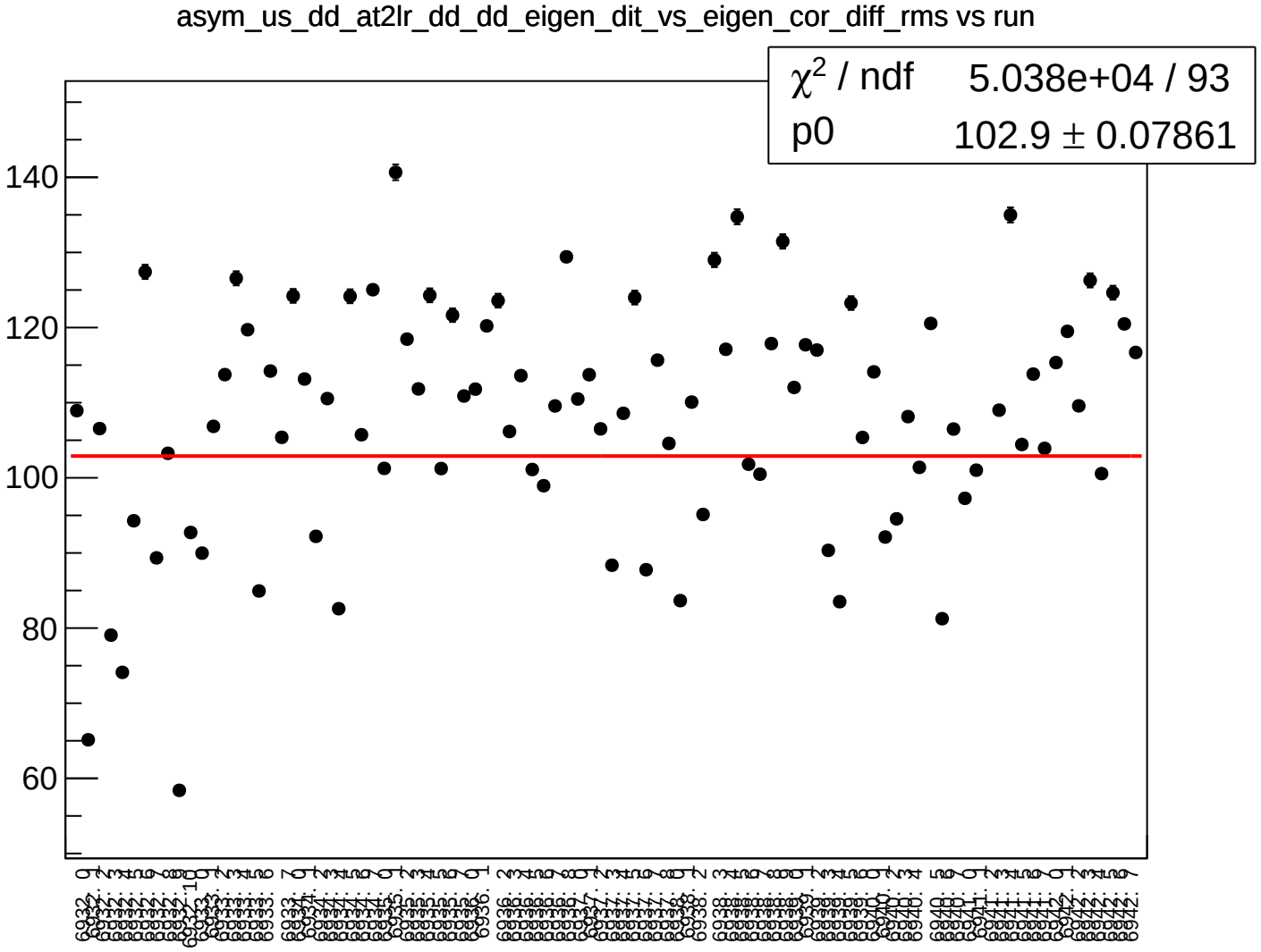

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.75 / 93
p0 −1.026e−05 ± 1.23e−05
pull
Entries 94
Mean 222.6
Std Dev 0
pull1D
Entries 94
Mean 0.00739
Std Dev 0.9153

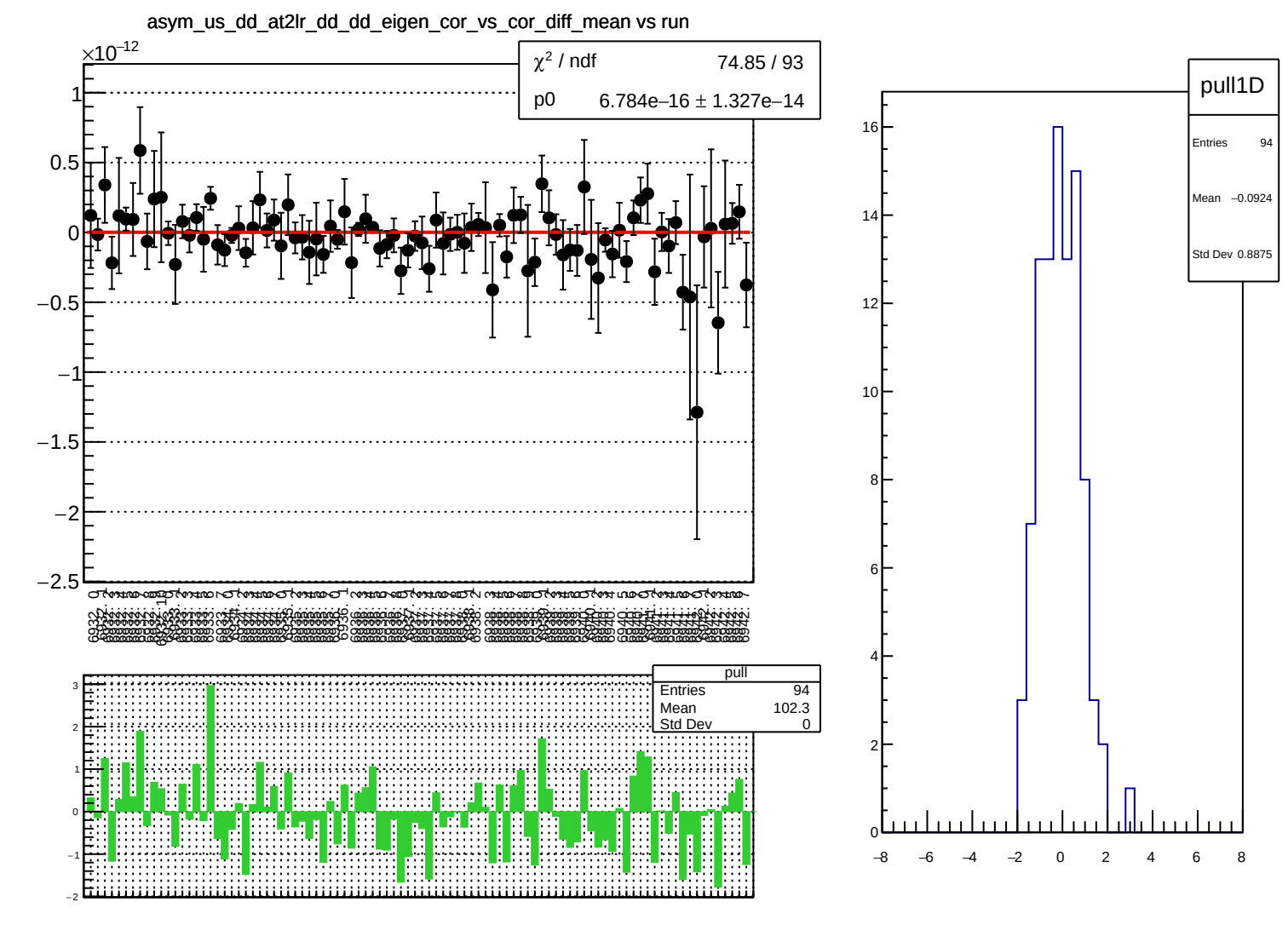

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6002 / 93
p0 0.01153 ± 8.7e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

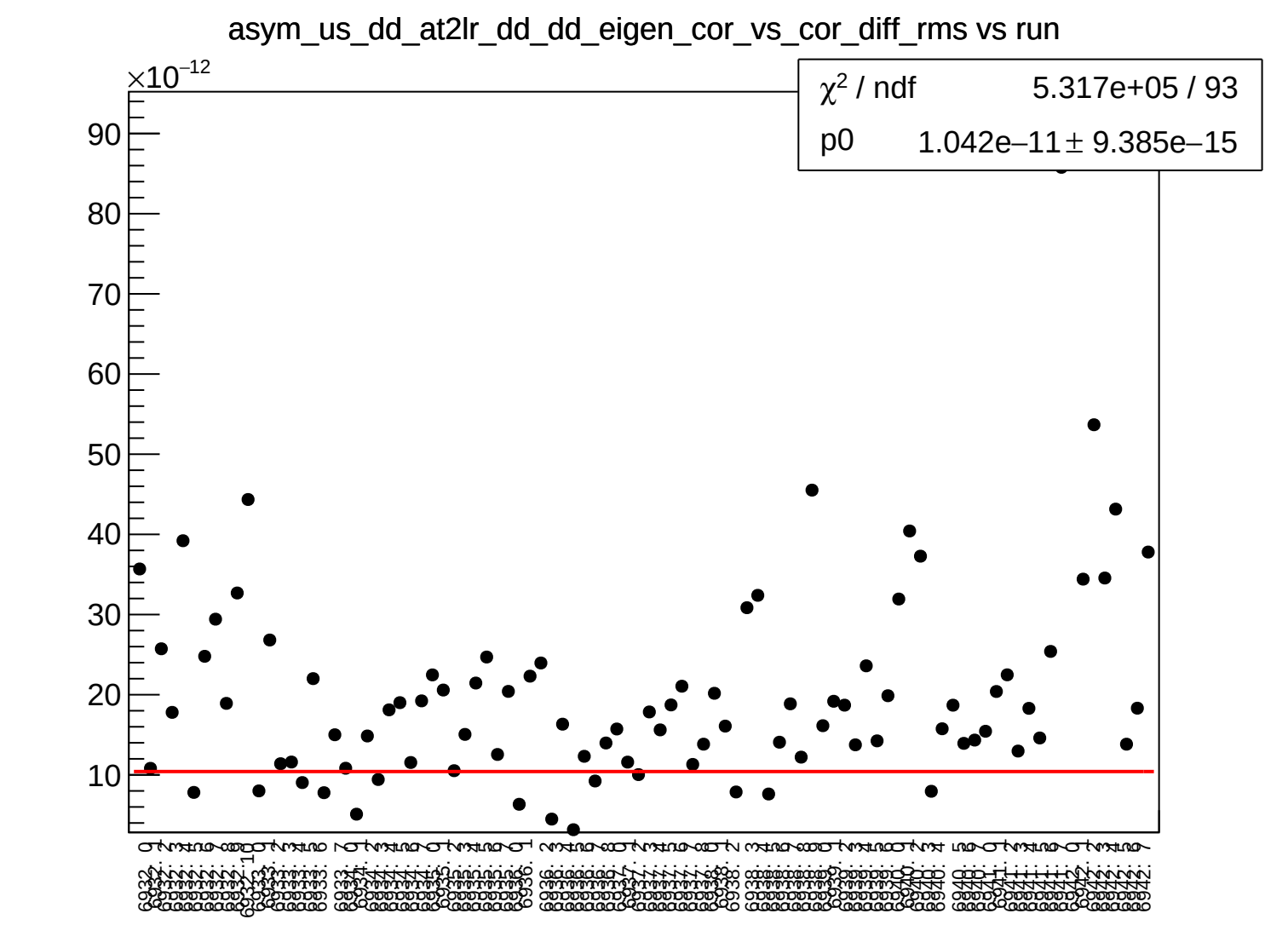

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.04 / 93
p0 −0.1093 ± 0.1112
pull
Entries 94
Mean 443.2
Std Dev 0
pull1D
Entries 94
Mean 0.00905
Std Dev 0.9511

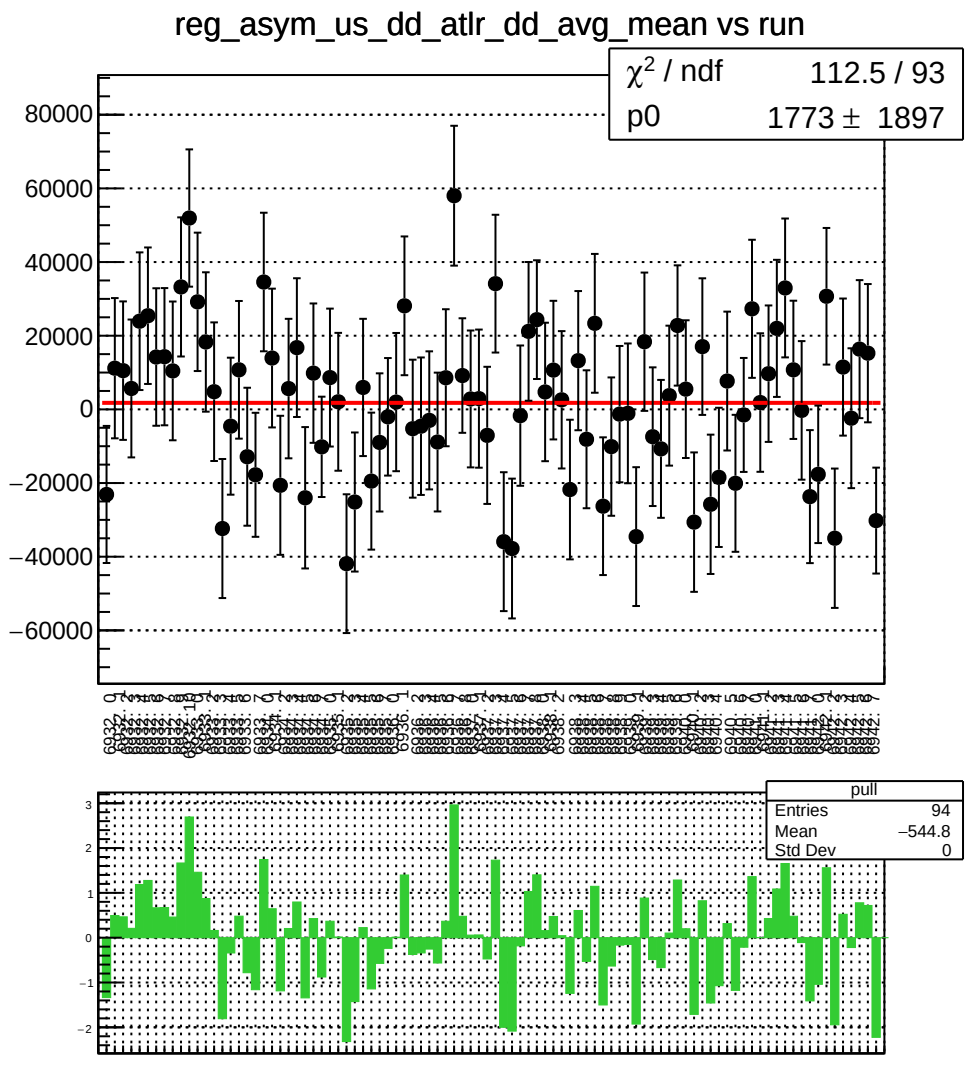

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.038e+04 / 93
p0 102.9 ± 0.07861
140
120
100
80
60

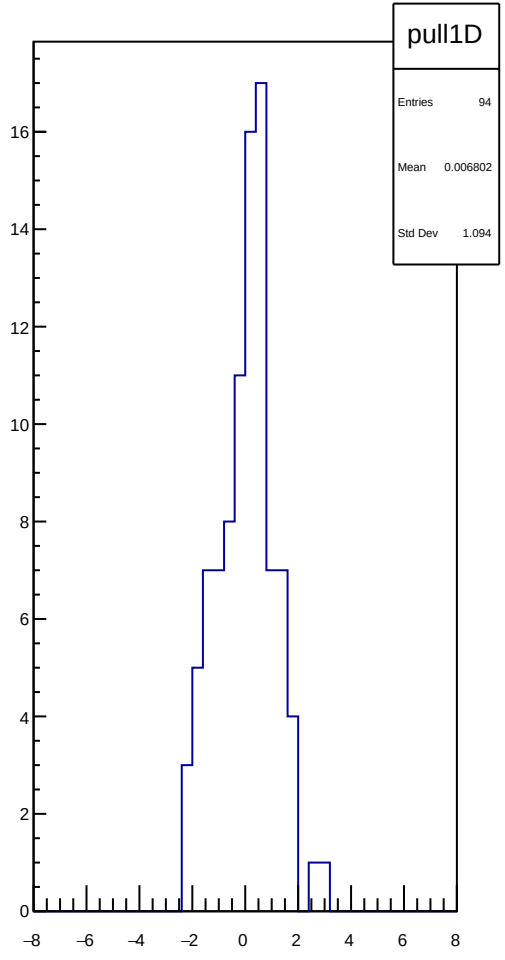

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.04 / 93
p0 −0.1093 ± 0.1112
pull
Entries 94
Mean 443.2
Std Dev 0
pull1D
Entries 94
Mean 0.00905
Std Dev 0.9511

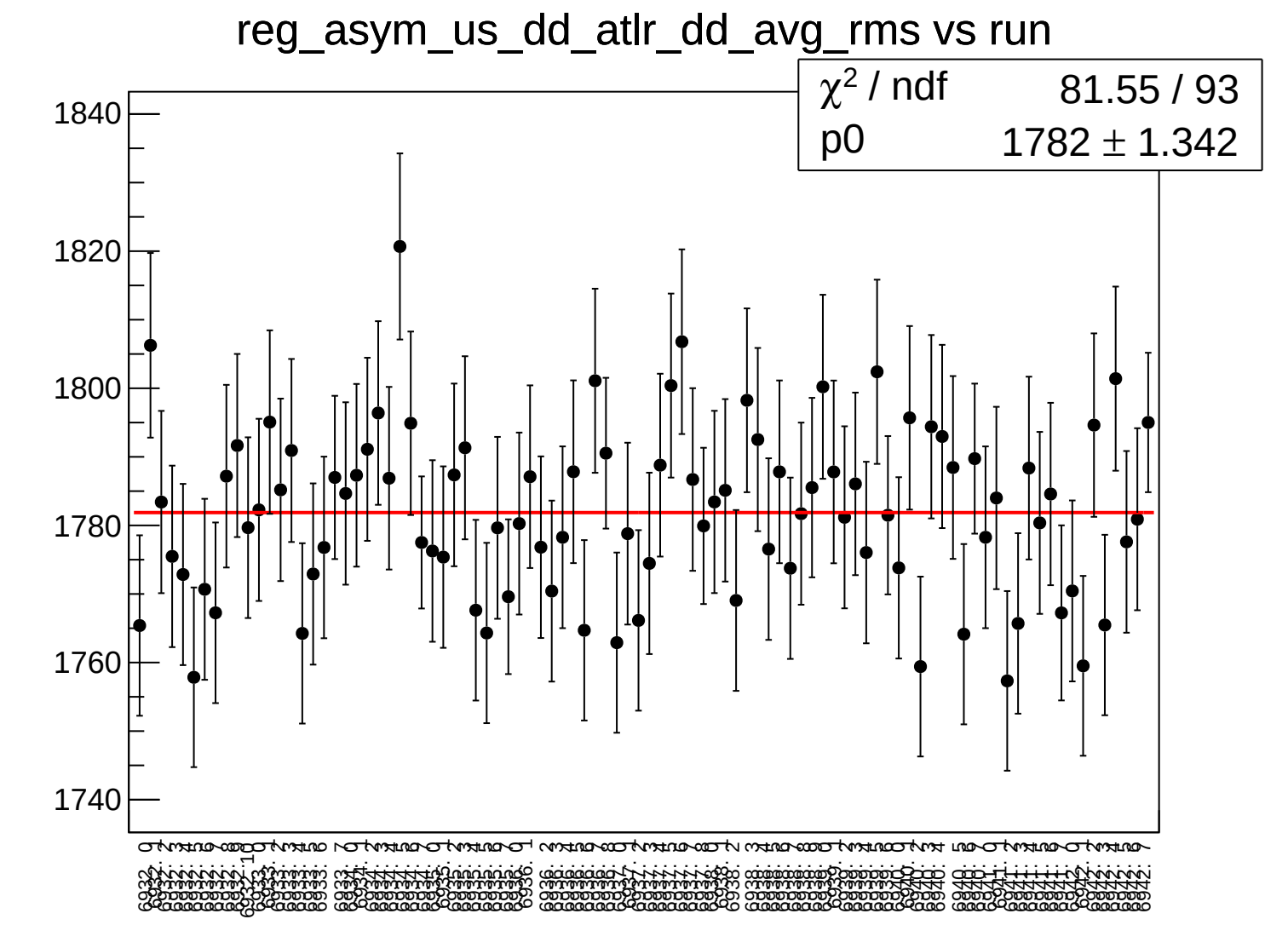

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.038e+04 / 93
p0 102.9 ± 0.07861
140
120
100
80
60

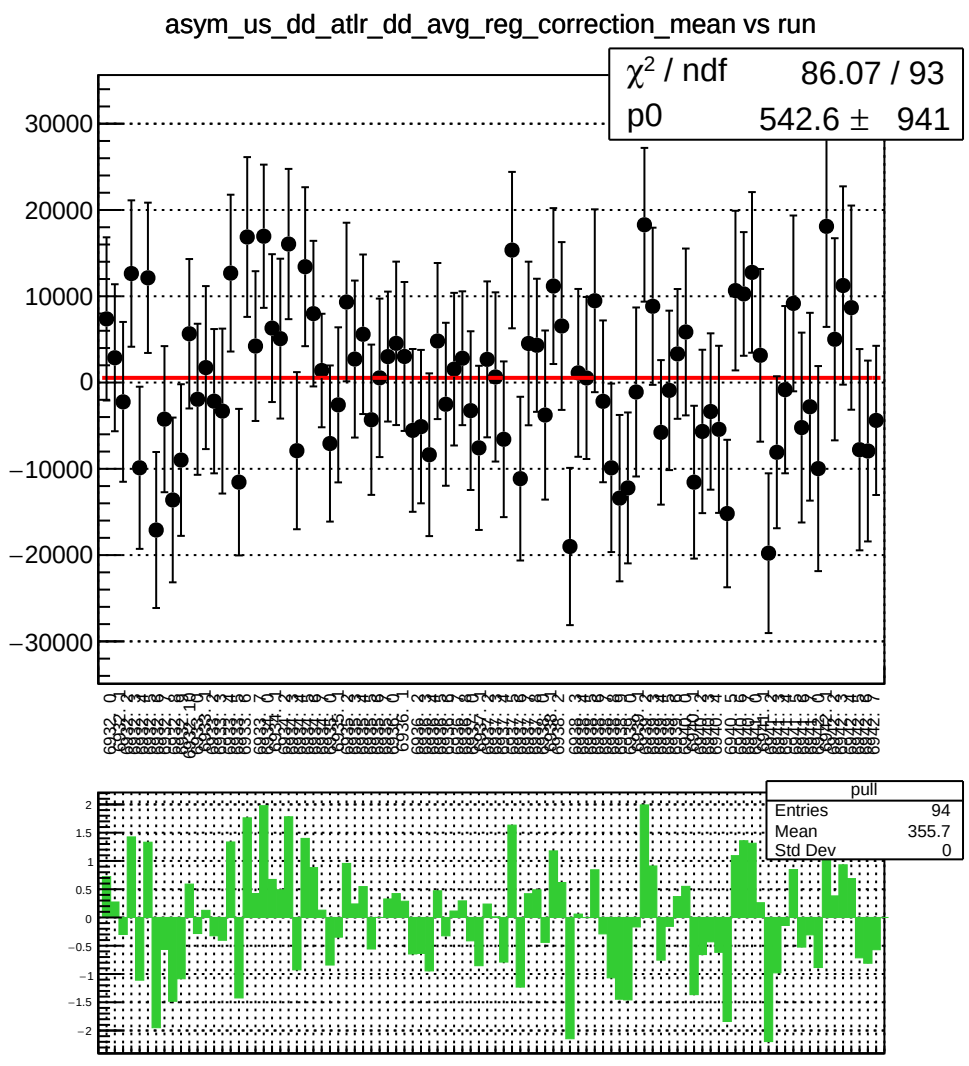

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.85 / 93
p0 6.784e−16 ± 1.327e−14
pull
Entries 94
Mean 102.3
Std Dev 0
pull1D
Entries 94
Mean −0.0924
Std Dev 0.8875

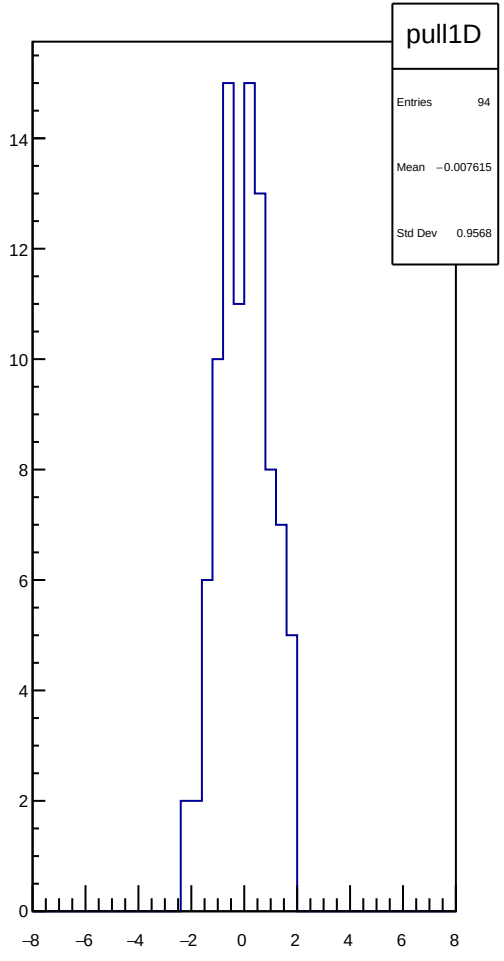

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.317e+05 / 93
p0 1.042e−11 ± 9.385e−15
90
80
70
60
50
40
30
20
10

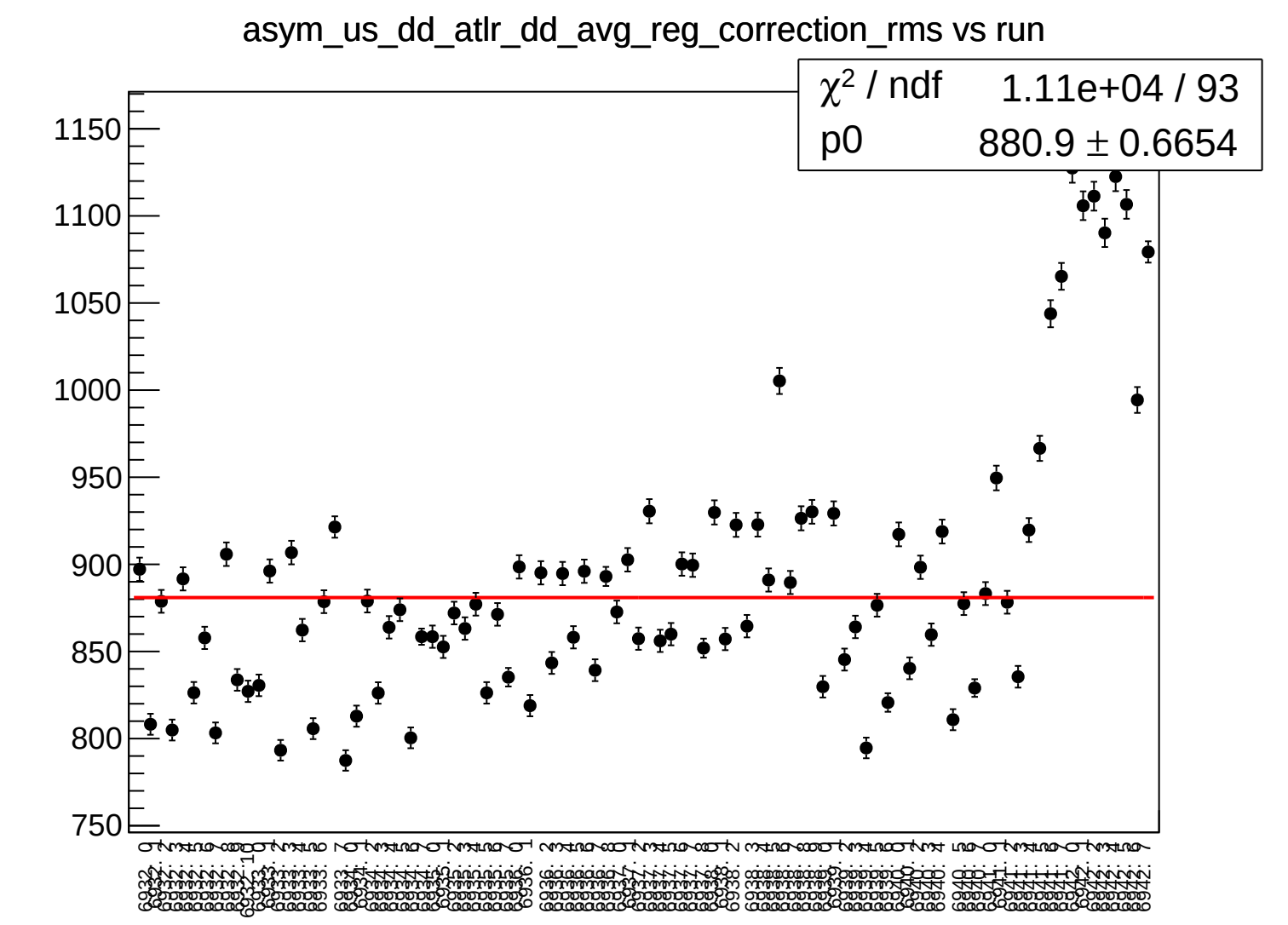

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 112.5 / 93
p0 1773 ± 1897
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −544.8
Std Dev 0
3
2
1
0
−1
−2

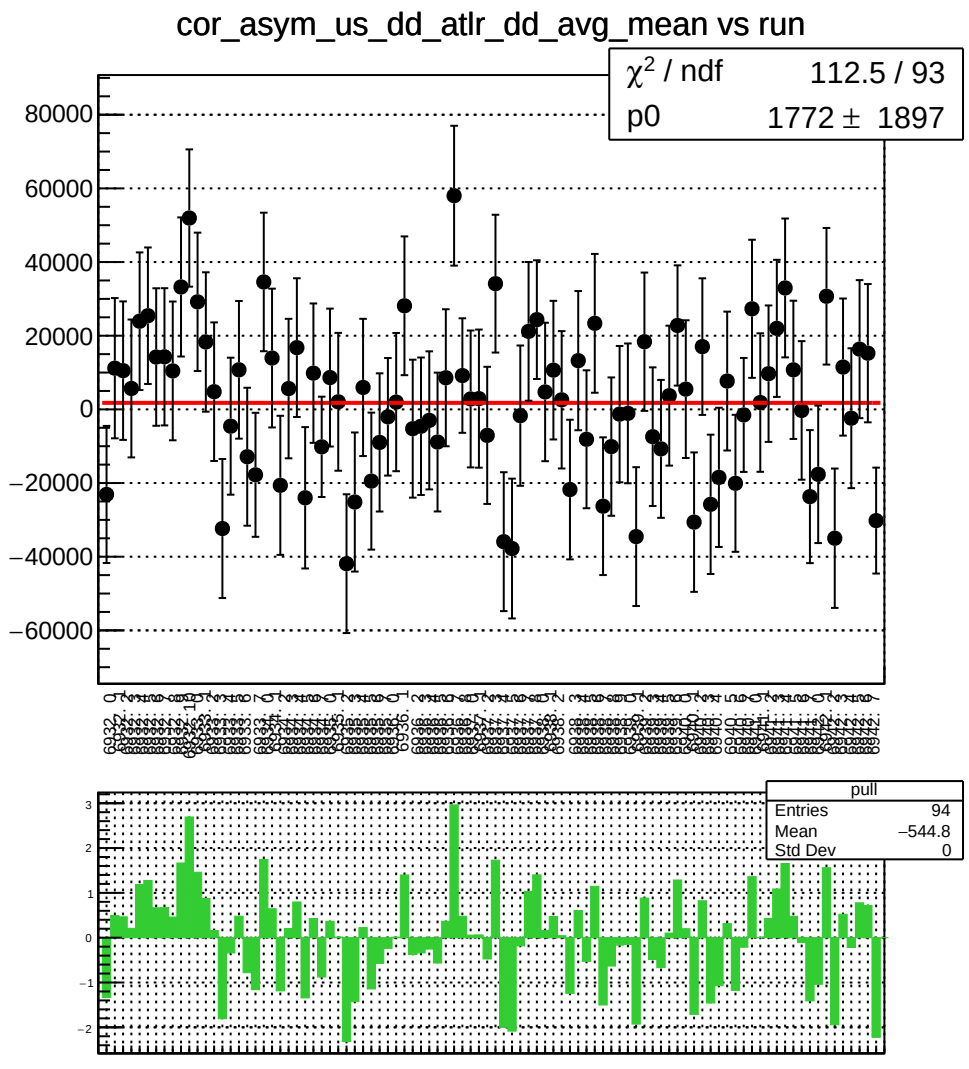

pull1D
Entries 94
Mean 0.006802
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

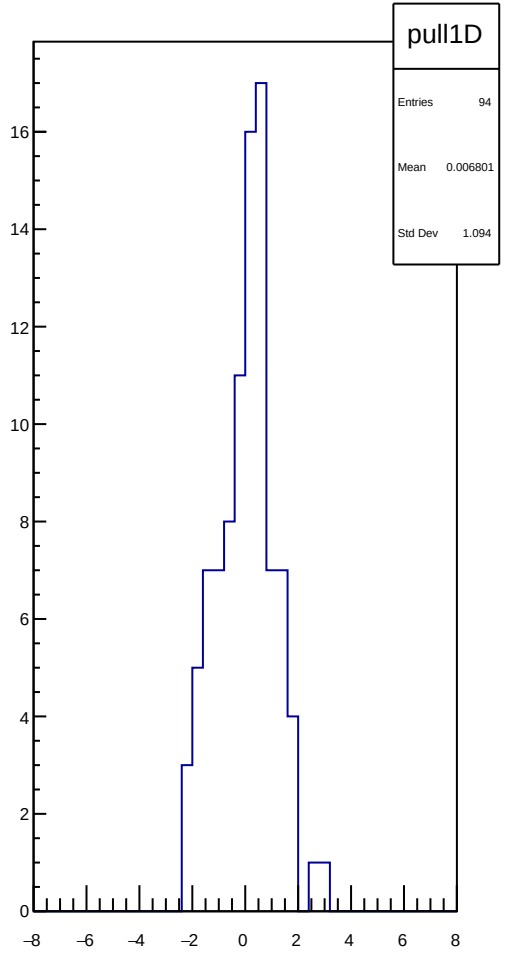

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.55 / 93
p0 1782 ± 1.342
1840
1820
1800
1780
1760
1740

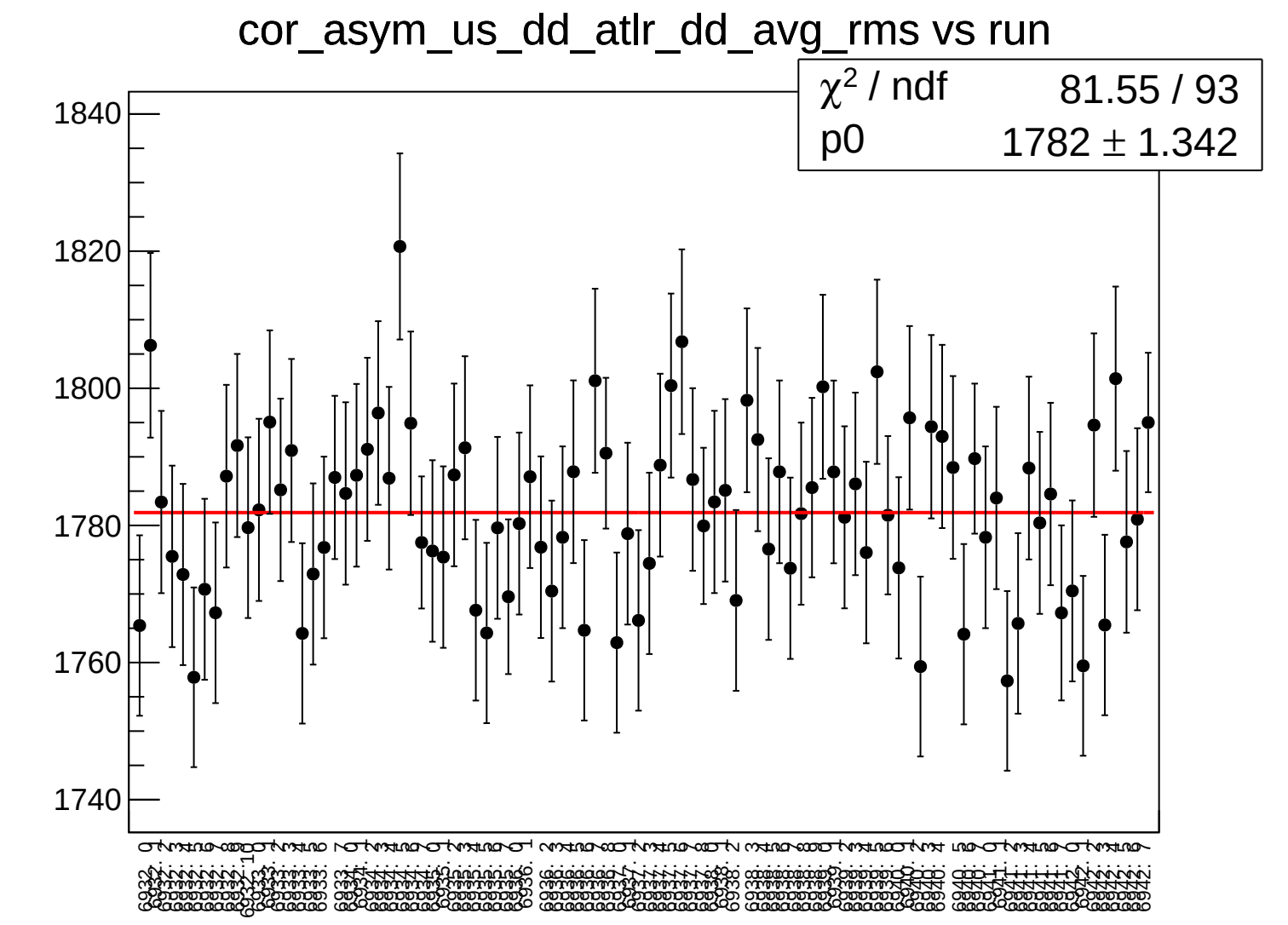

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 86.07 / 93
p0 542.6 ± 941
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 355.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

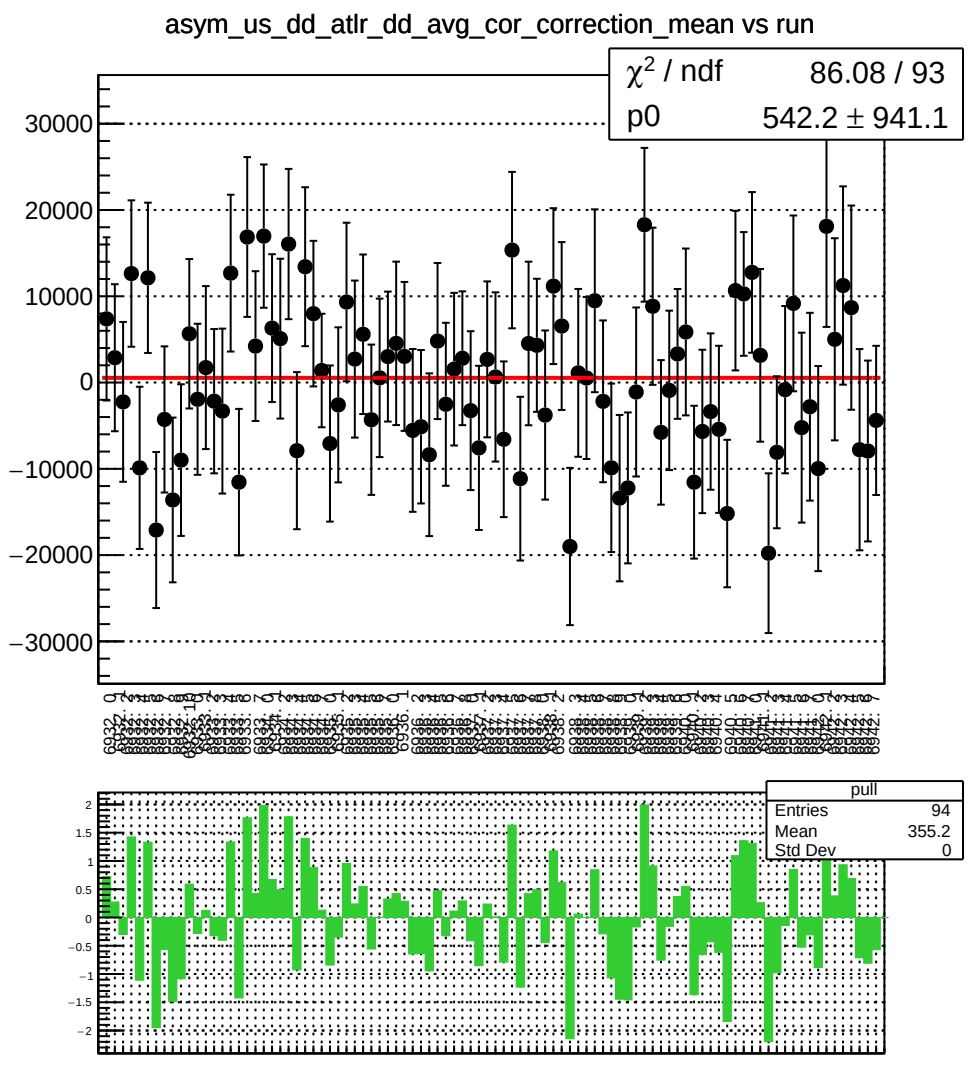

pull1D
Entries 94
Mean −0.007615
Std Dev 0.9568
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

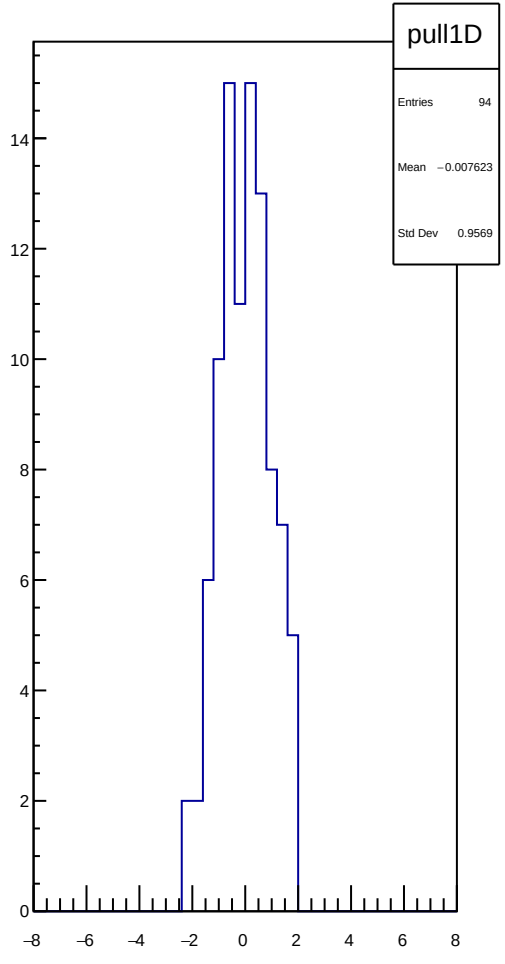

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.11e+04 / 93
p0 880.9 ± 0.6654
1150
1100
1050
1000
950
900
850
800
750

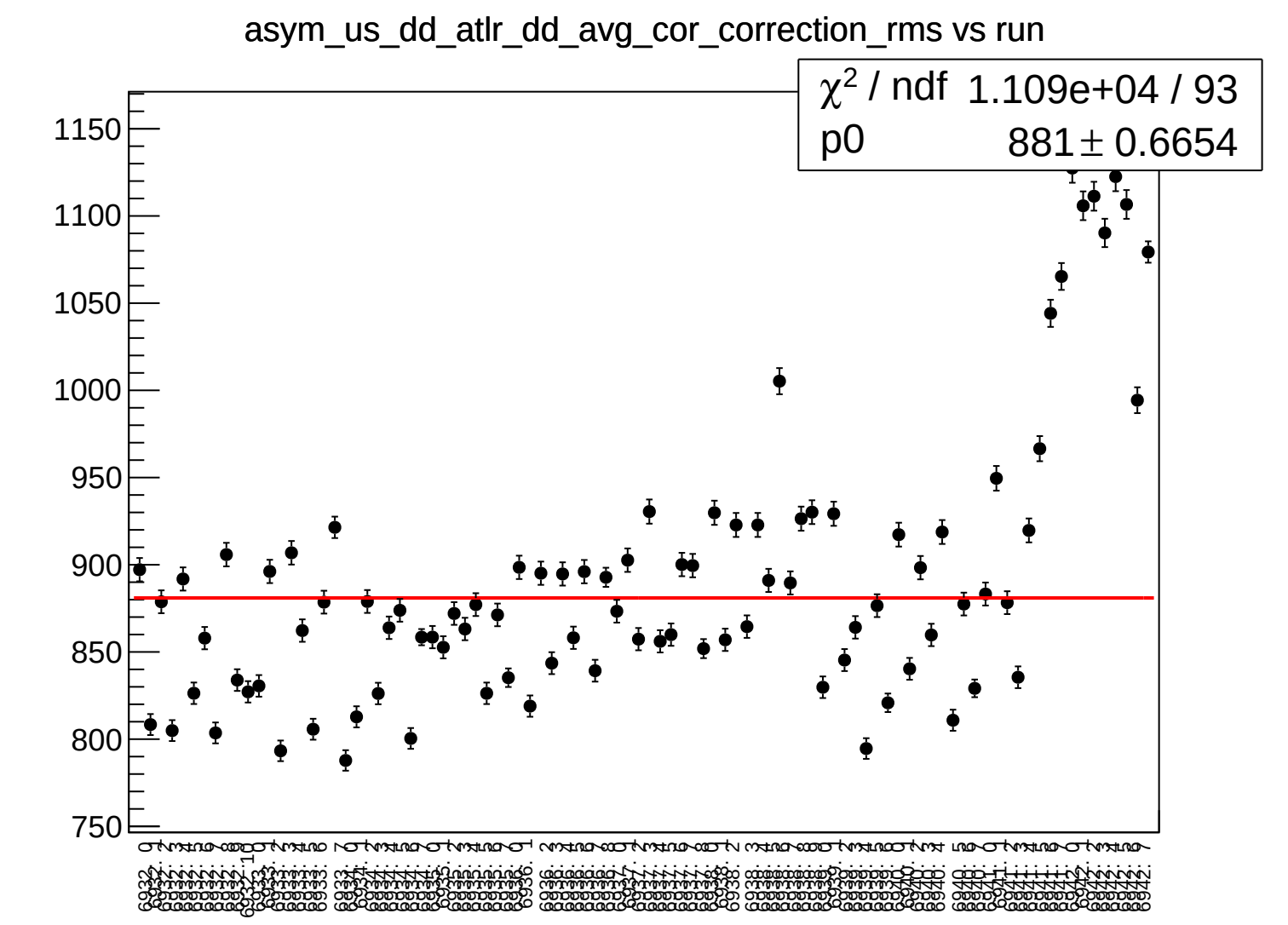

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 112.5 / 93
p0 1772 ± 1897
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −544.8
Std Dev 0
3
2
1
0
−1
−2

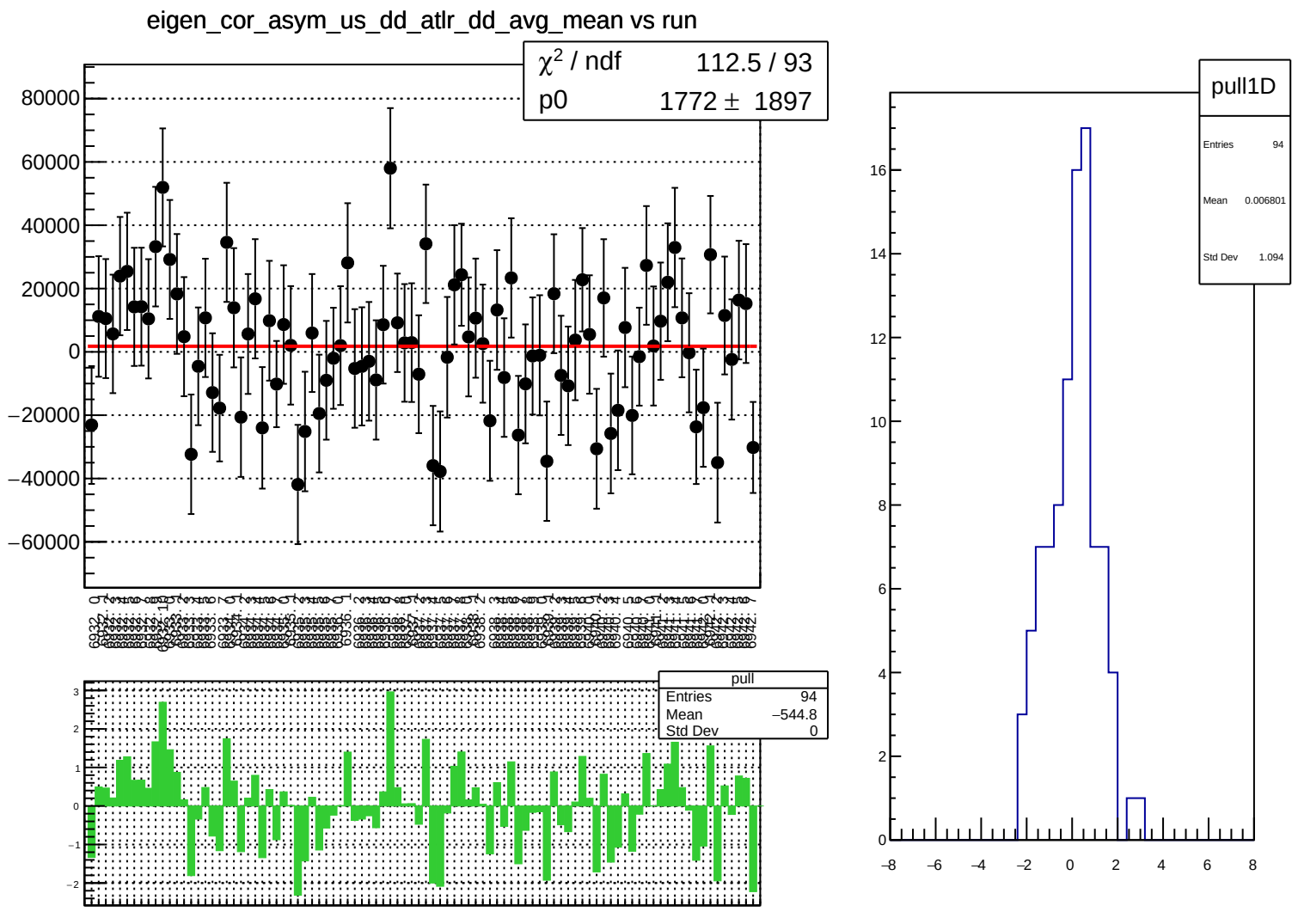

pull1D
Entries 94
Mean 0.006801
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

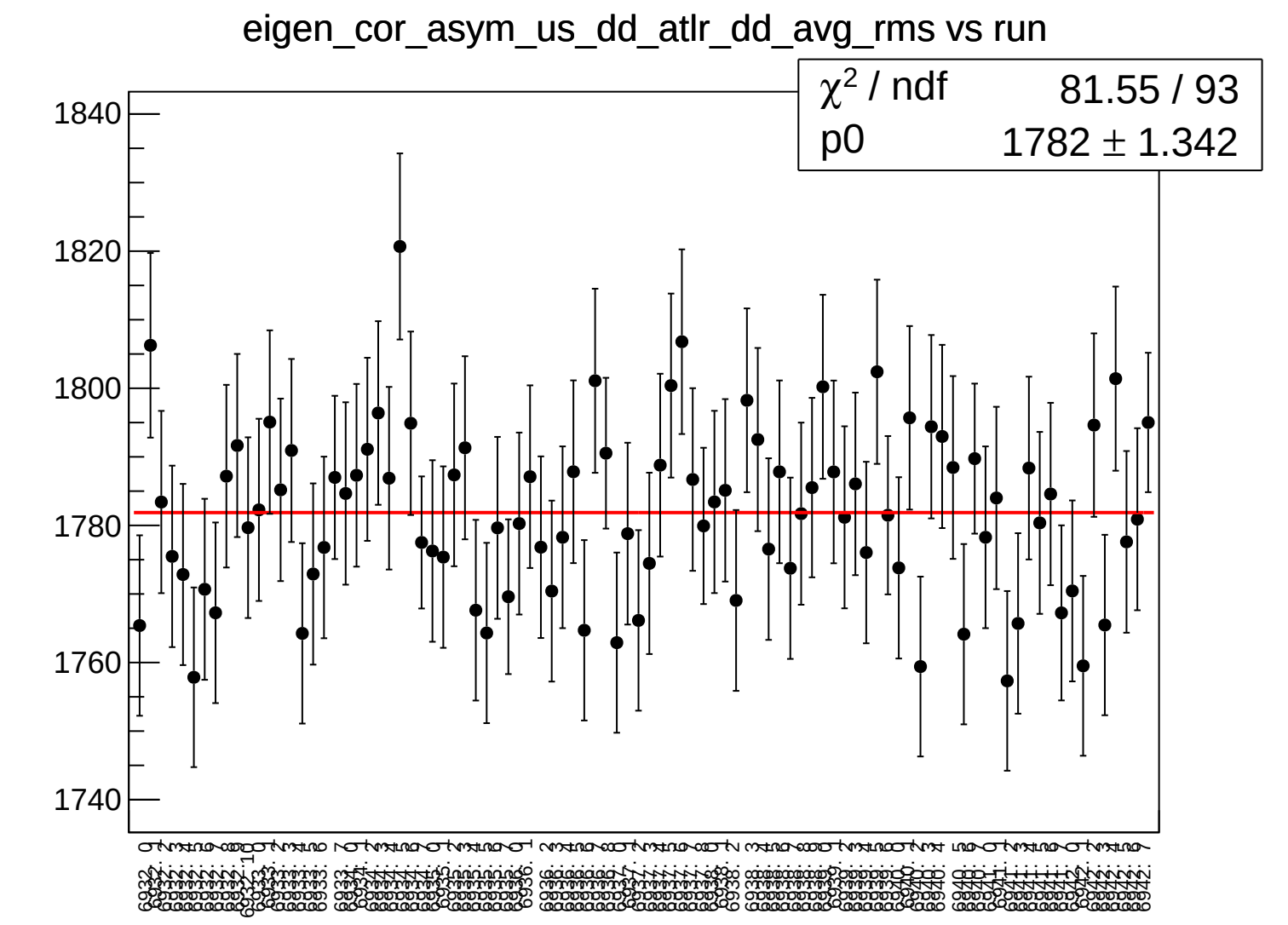

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.55 / 93
p0 1782 ± 1.342
1840
1820
1800
1780
1760
1740

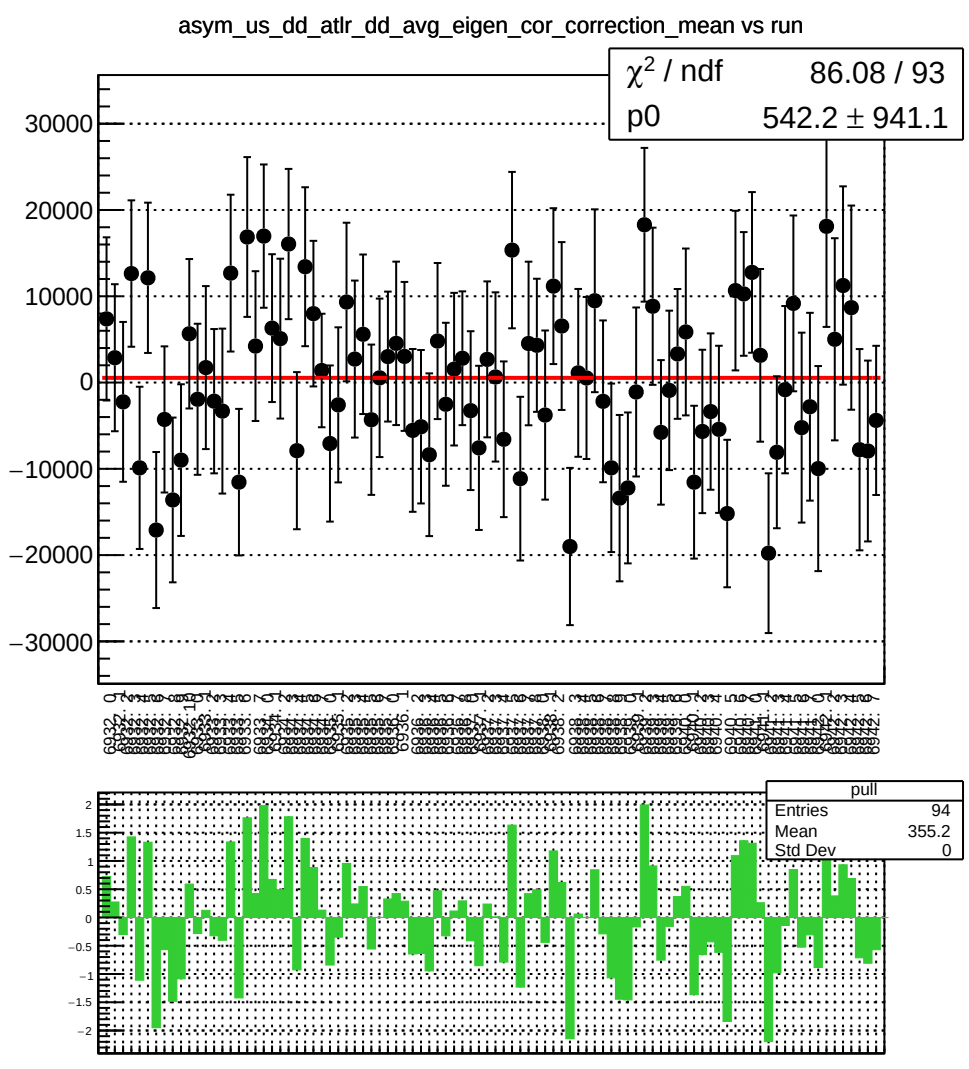

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 86.08 / 93
p0 542.2 ± 941.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 355.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

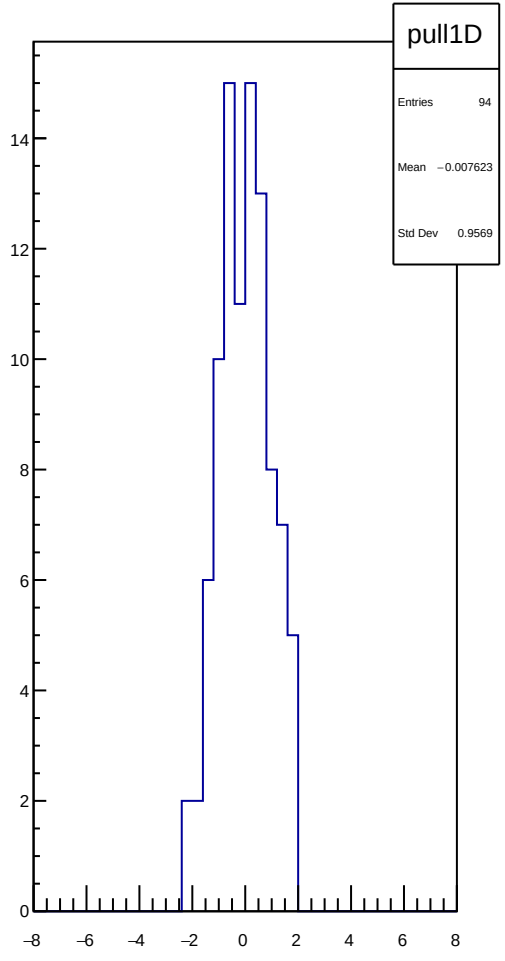

pull1D
Entries 94
Mean −0.007623
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

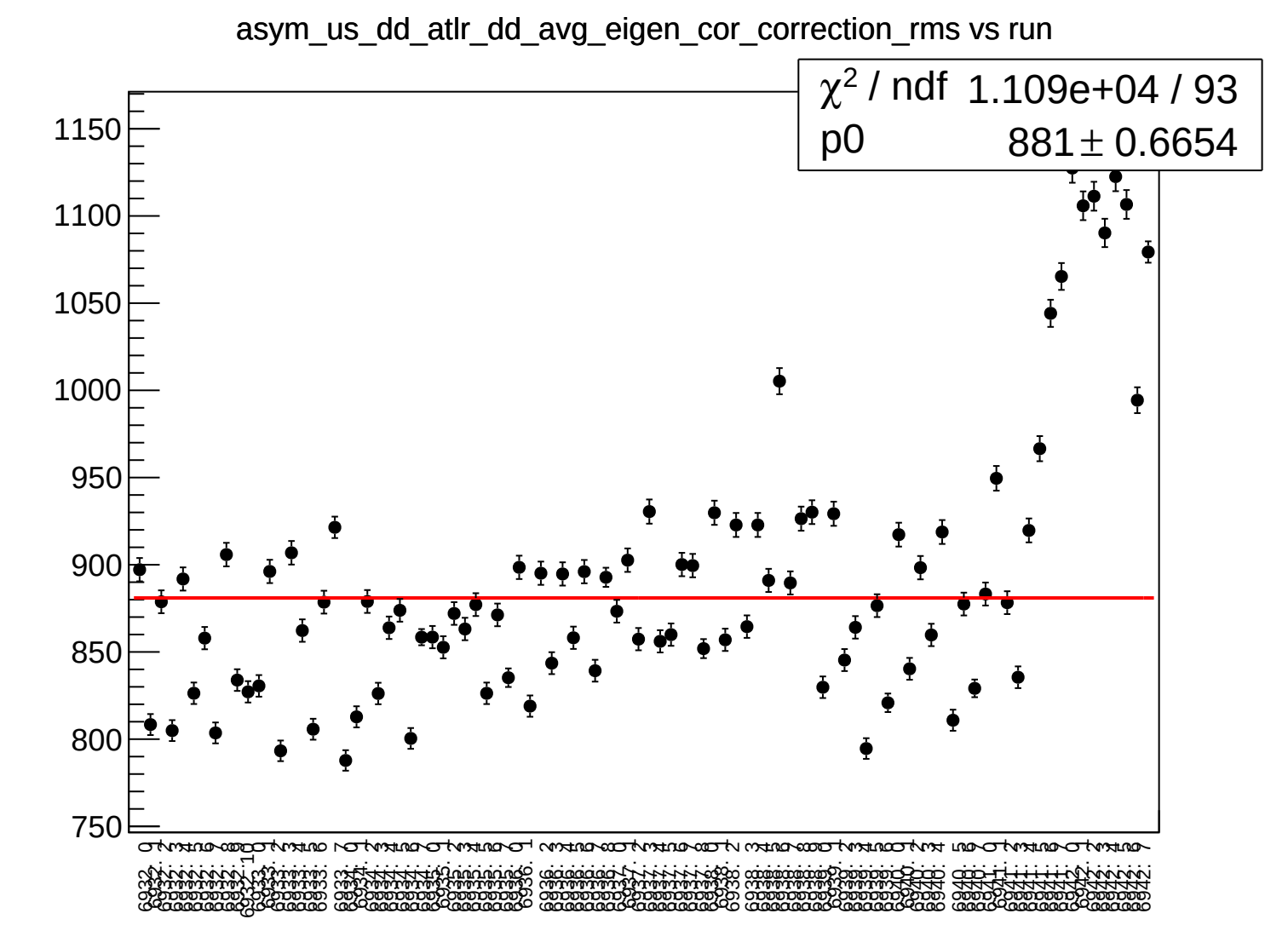

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 93
p0 881 ± 0.6654
1150
1100
1050
1000
950
900
850
800
750

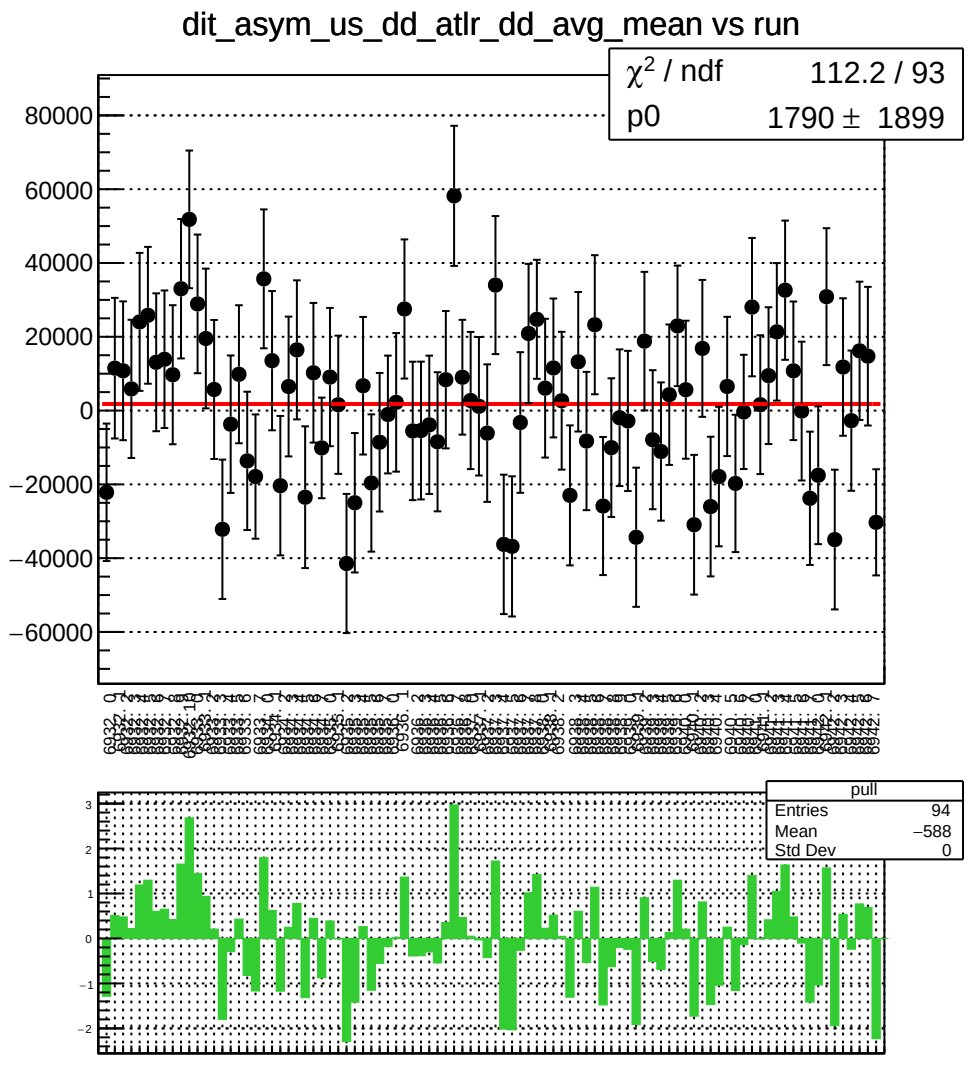

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 112.5 / 93
p0 1772 ± 1897
pull
Entries 94
Mean −544.8
Std Dev 0
pull1D
Entries 94
Mean 0.006801
Std Dev 1.094

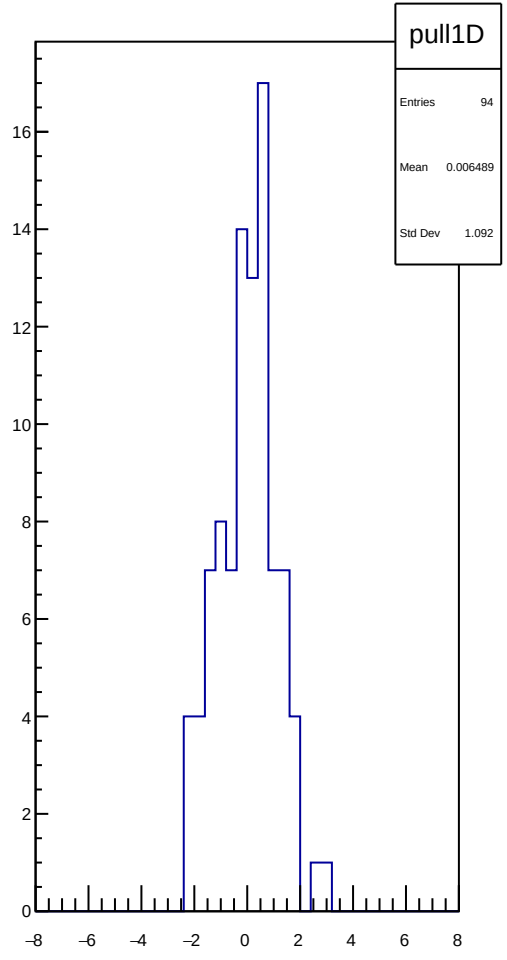

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.55 / 93
p0 1782 ± 1.342
1840
1820
1800
1780
1760
1740

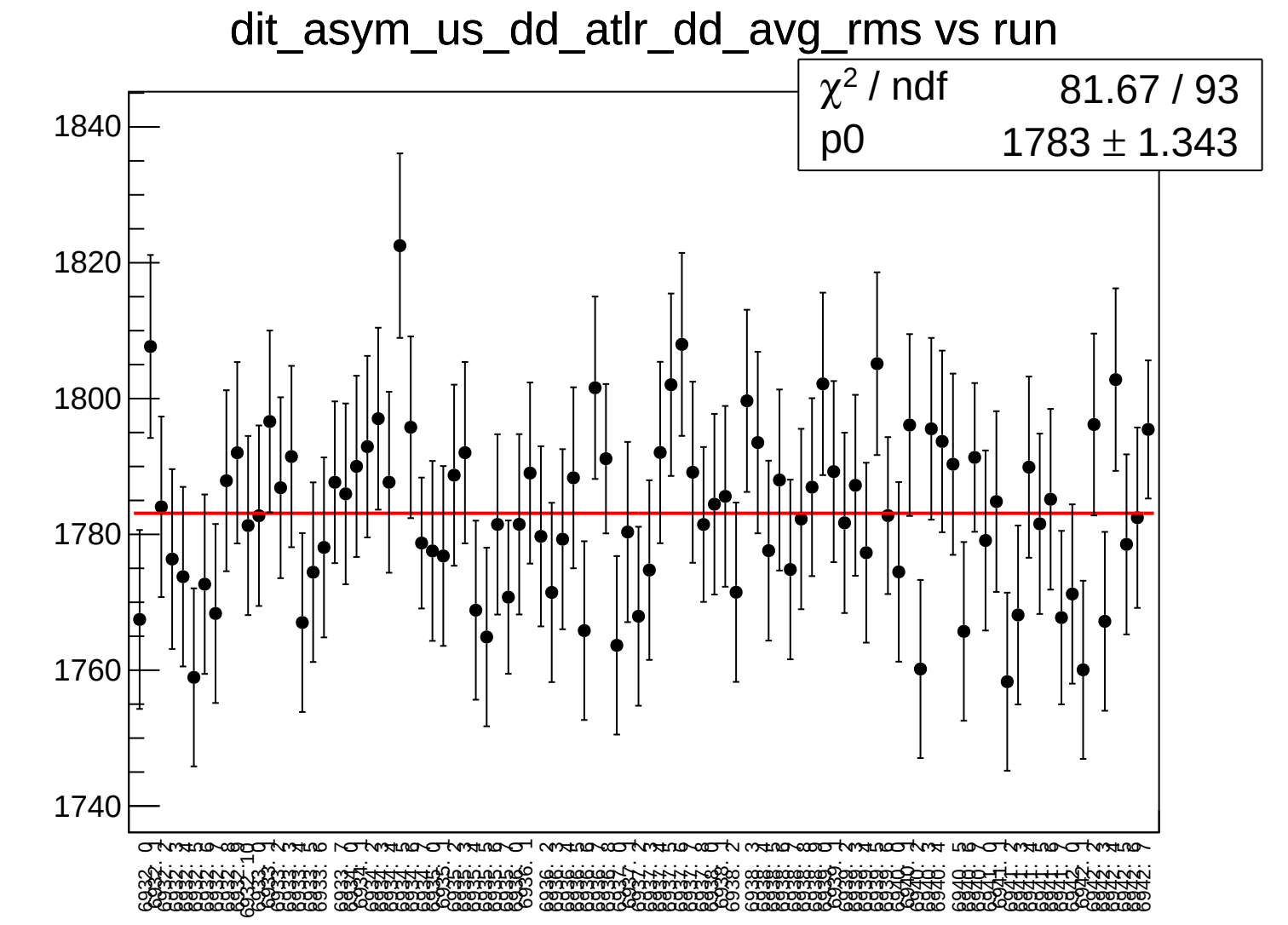

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.08 / 93
p0 542.2 ± 941.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 355.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

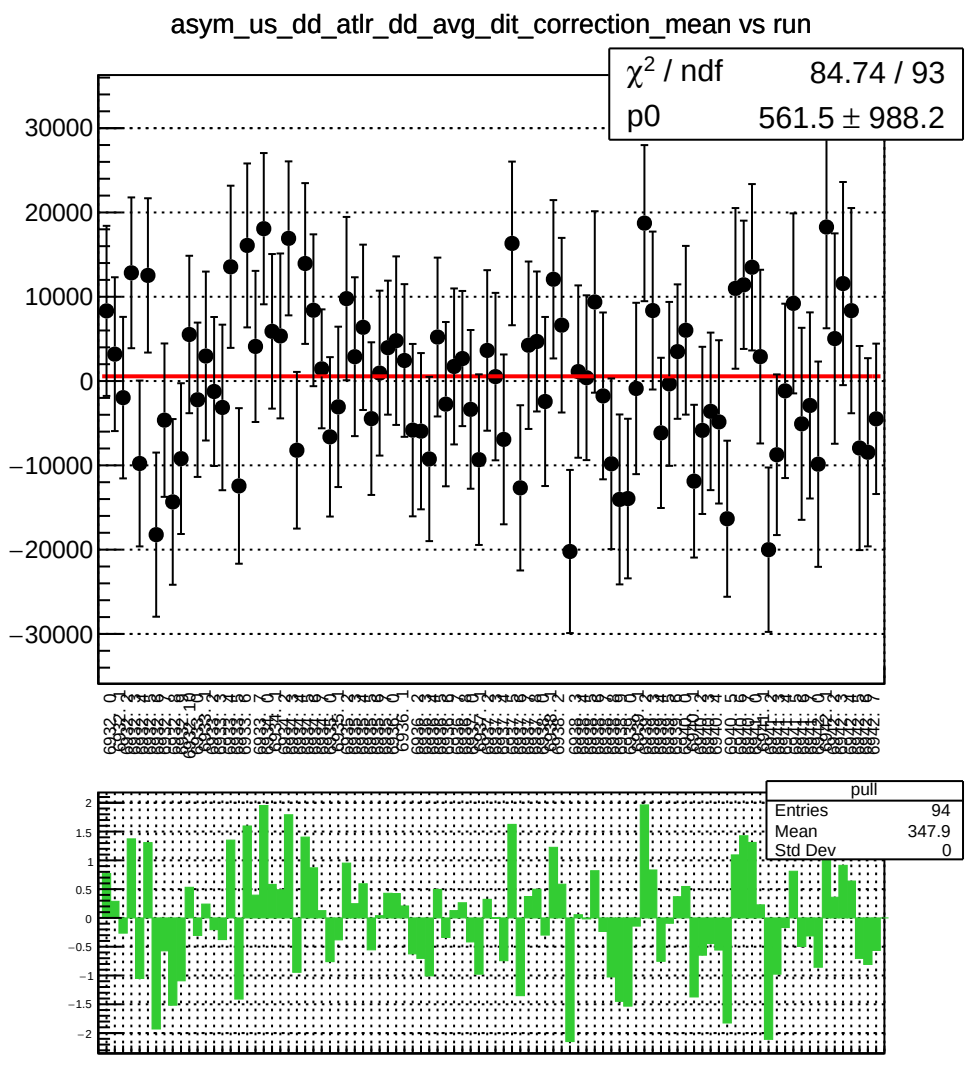

pull1D
Entries 94
Mean −0.007623
Std Dev 0.9569
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

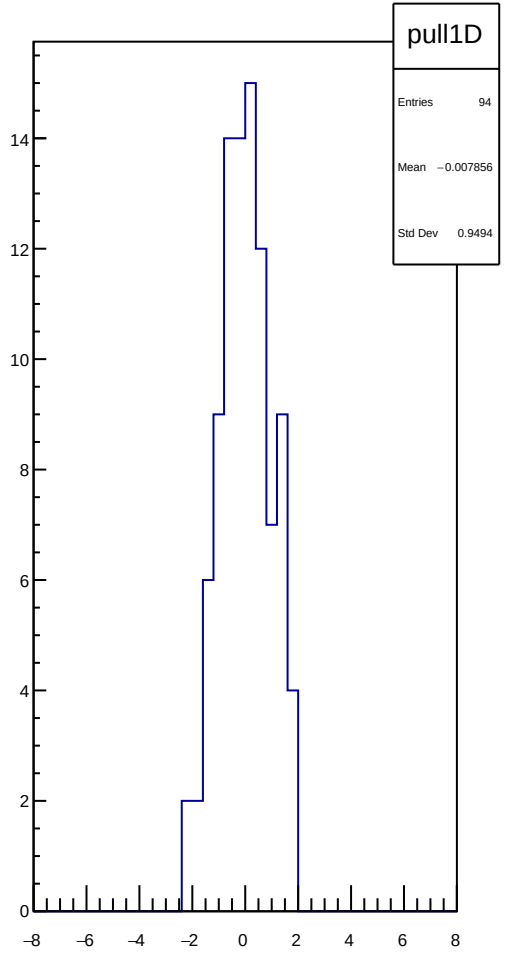

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.109e+04 / 93
p0 881 ± 0.6654
1150
1100
1050
1000
950
900
850
800
750

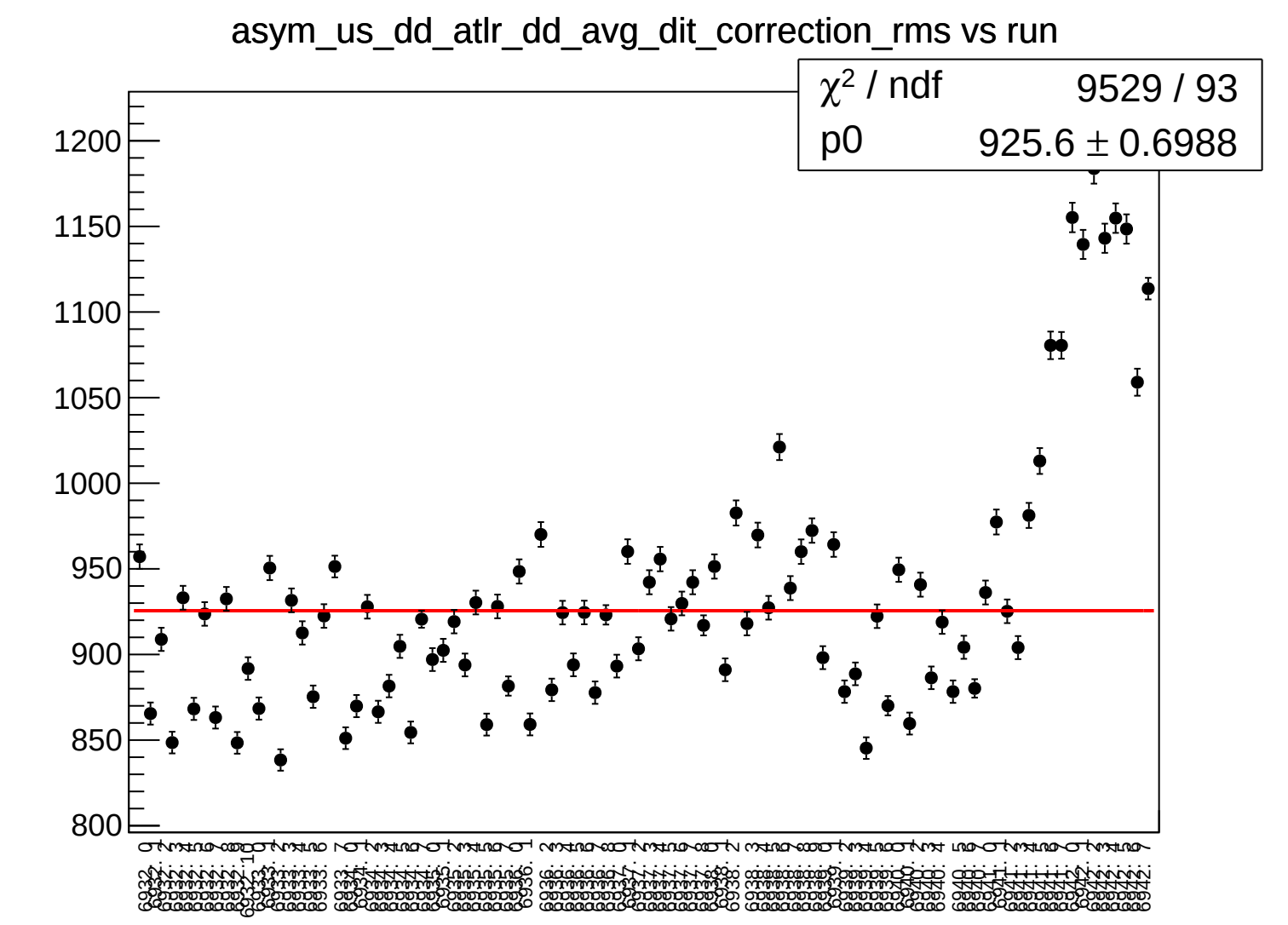

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 112.2 / 93
p0 1790 ± 1899
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −588
Std Dev 0
3
2
1
0
−1
−2

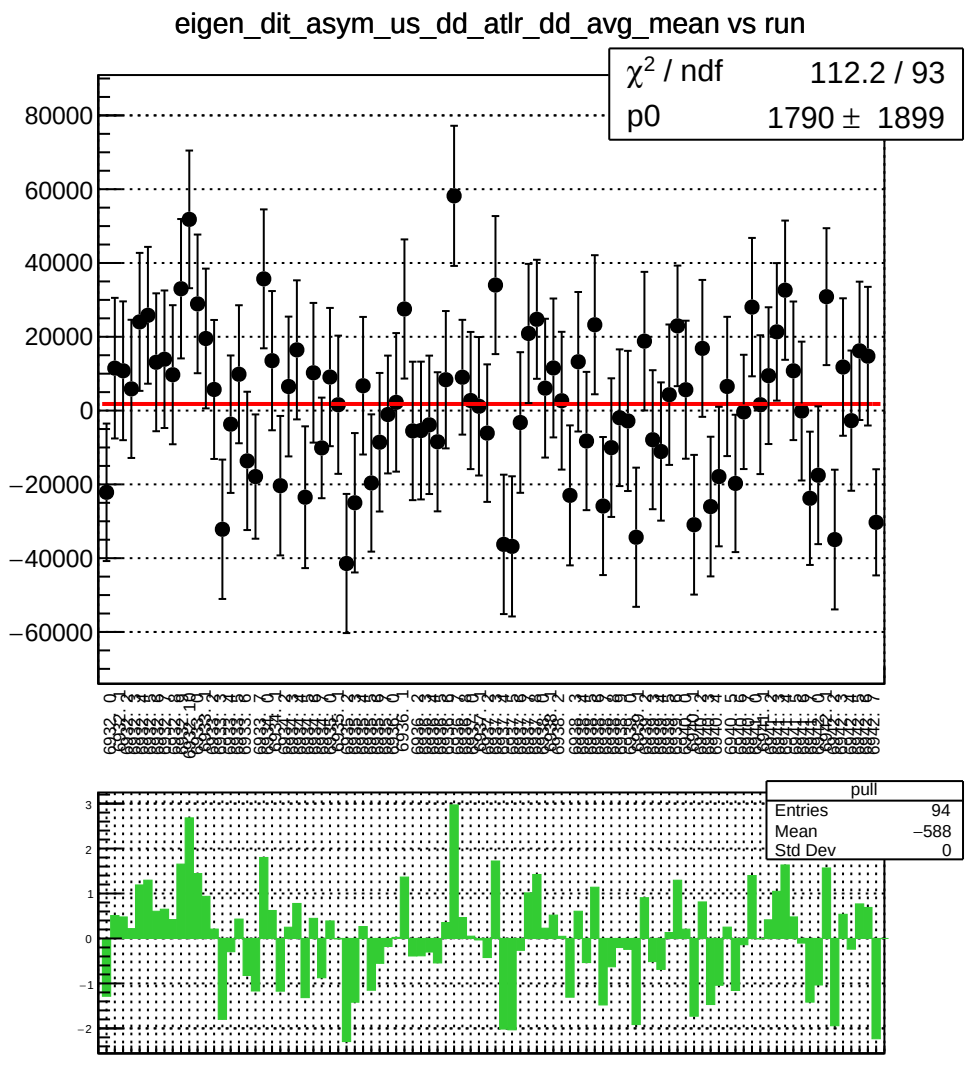

pull1D
Entries 94
Mean 0.006489
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

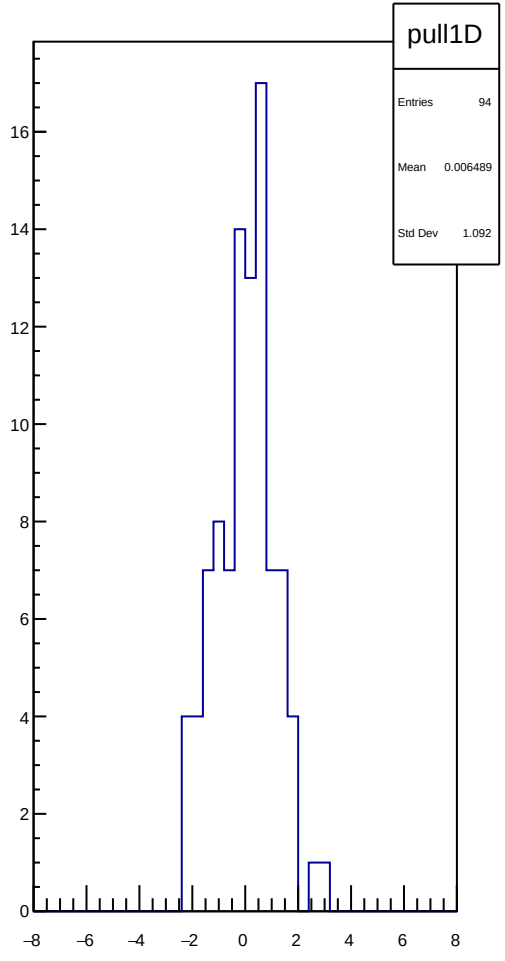

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.67 / 93
p0 1783 ± 1.343
1840
1820
1800
1780
1760
1740

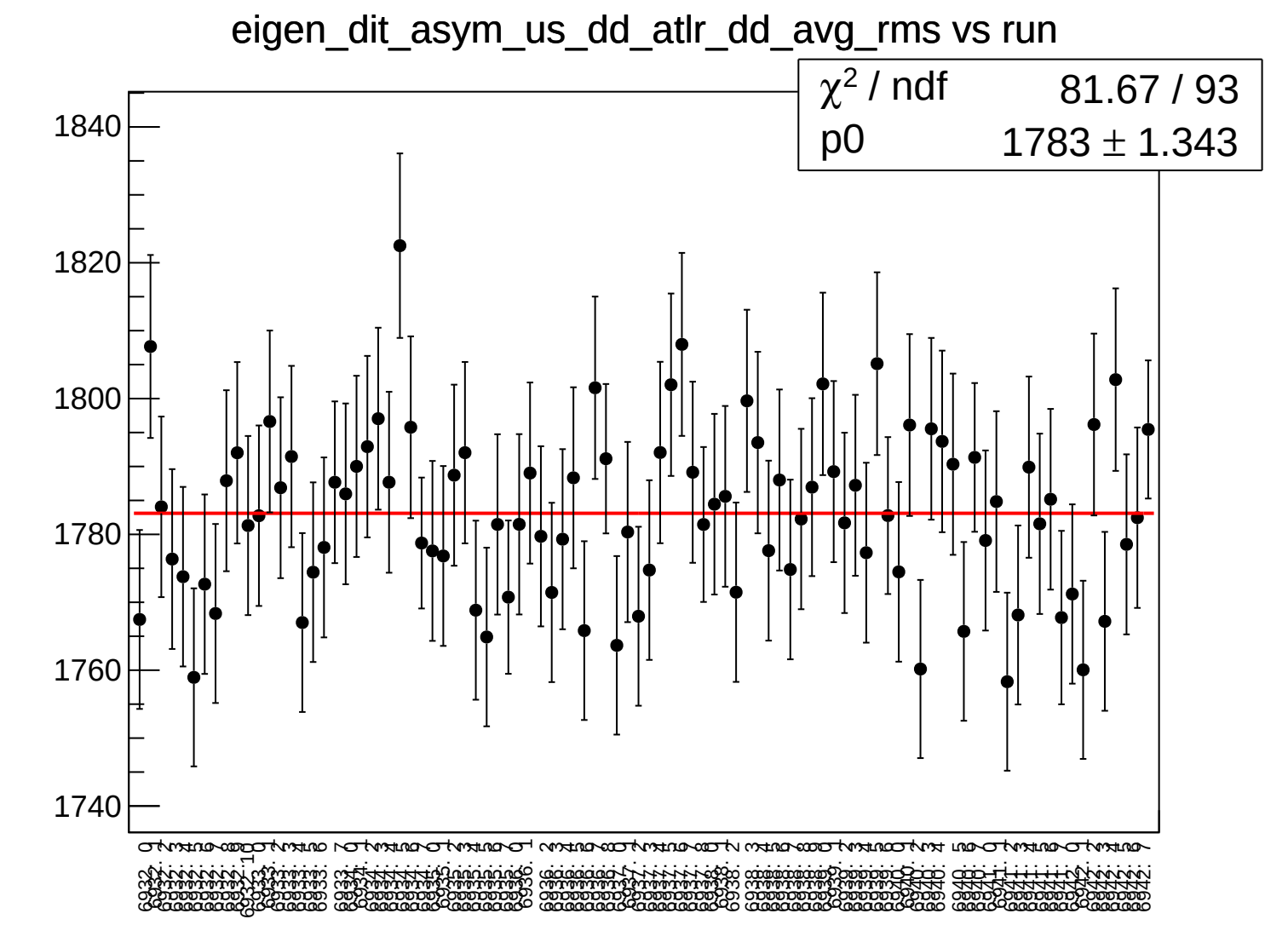

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 84.74 / 93
p0 561.5 ± 988.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 347.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

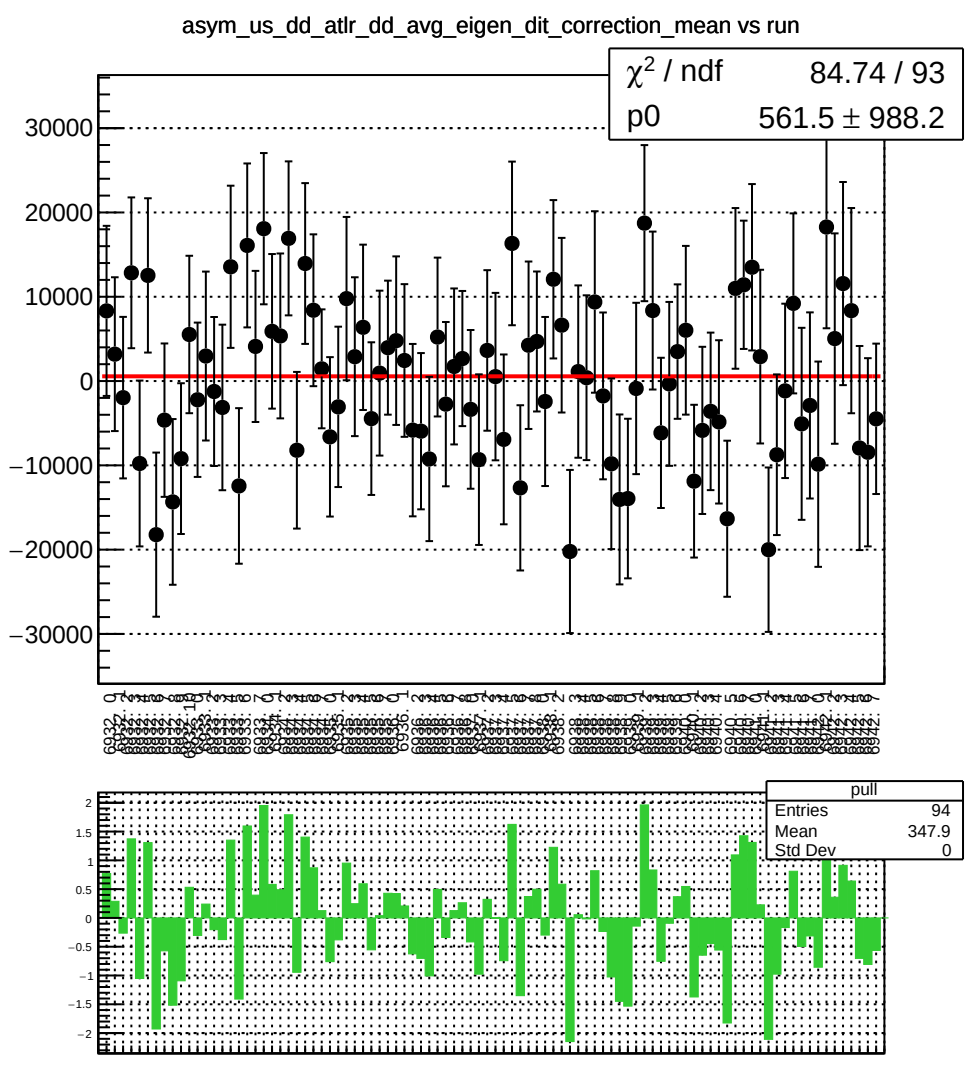

pull1D
Entries 94
Mean −0.007856
Std Dev 0.9494
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

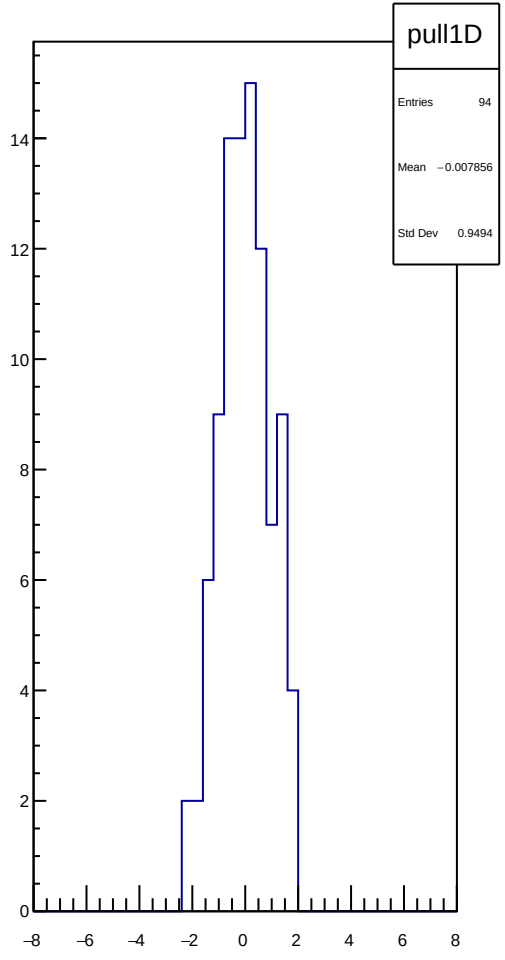

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 9529 / 93
p0 925.6 ± 0.6988
1200
1150
1100
1050
1000
950
900
850
800

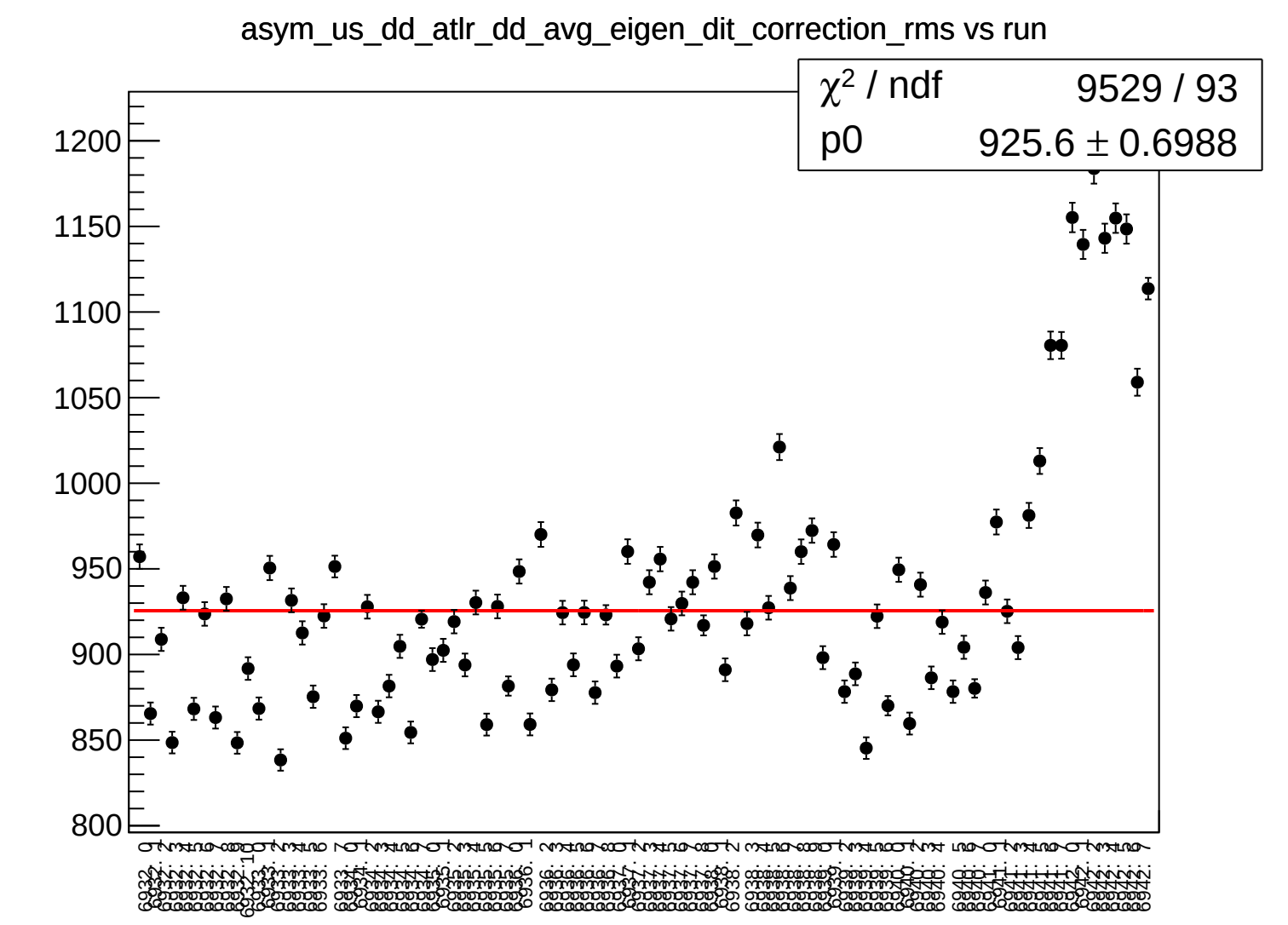

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 112.2 / 93
p0 1790 ± 1899
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −588
Std Dev 0
3
2
1
0
−1
−2

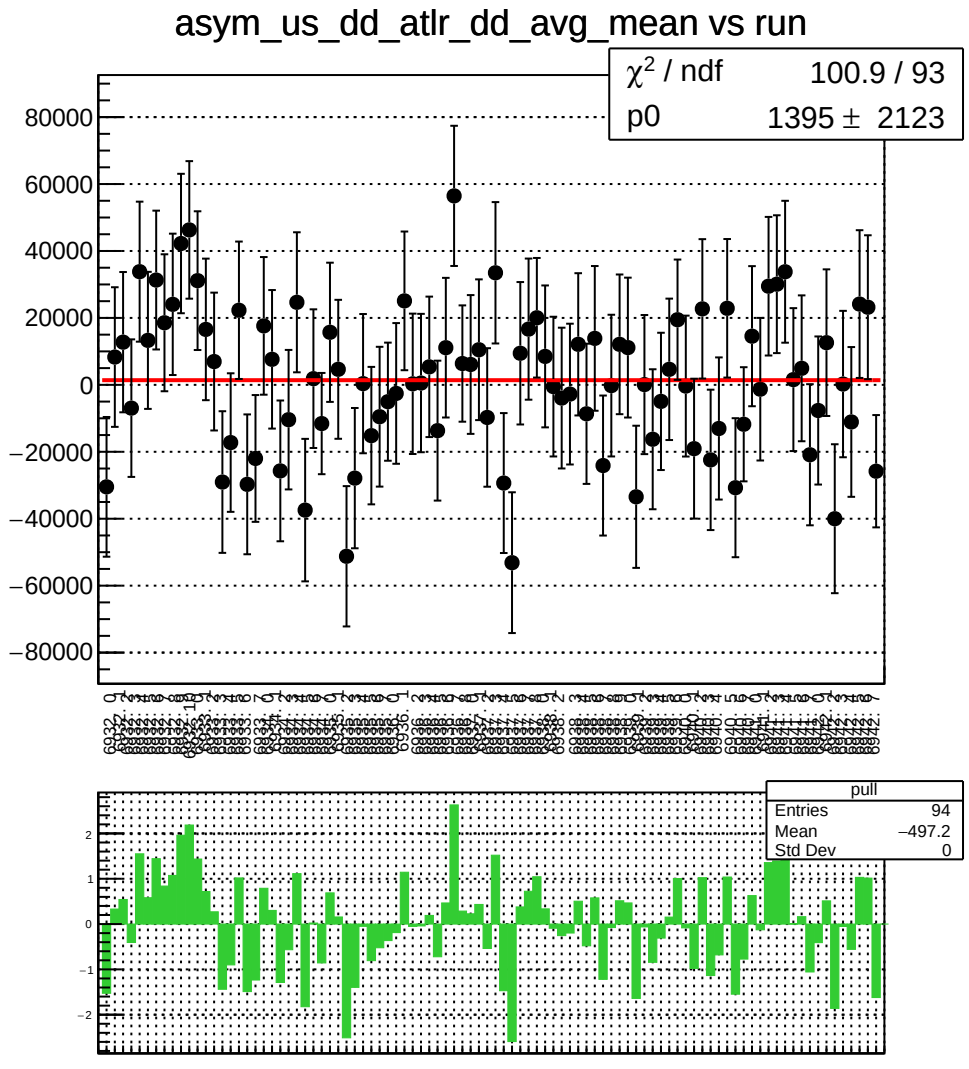

pull1D
Entries 94
Mean 0.006489
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

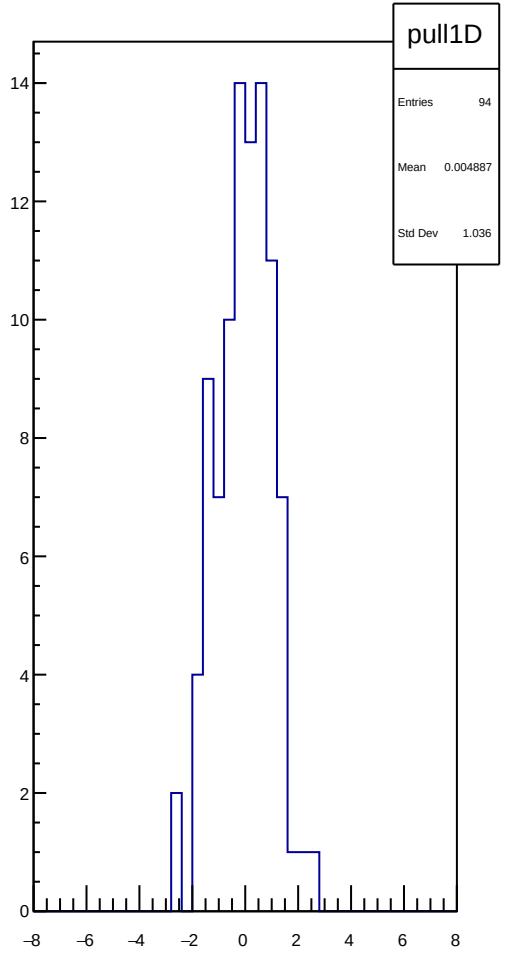

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 81.67 / 93
p0 1783 ± 1.343
1840
1820
1800
1780
1760
1740

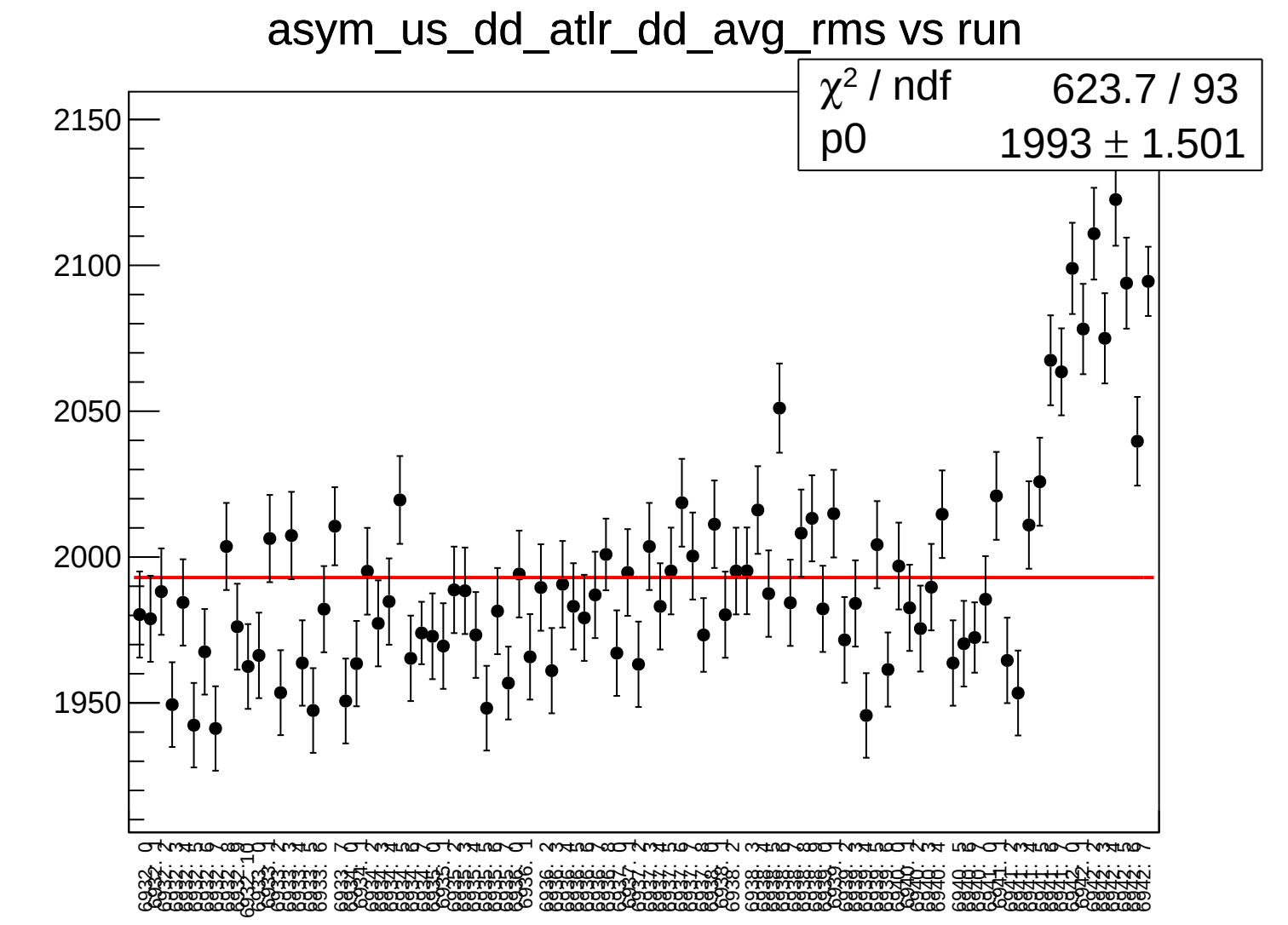

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.74 / 93
p0 561.5 ± 988.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 347.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

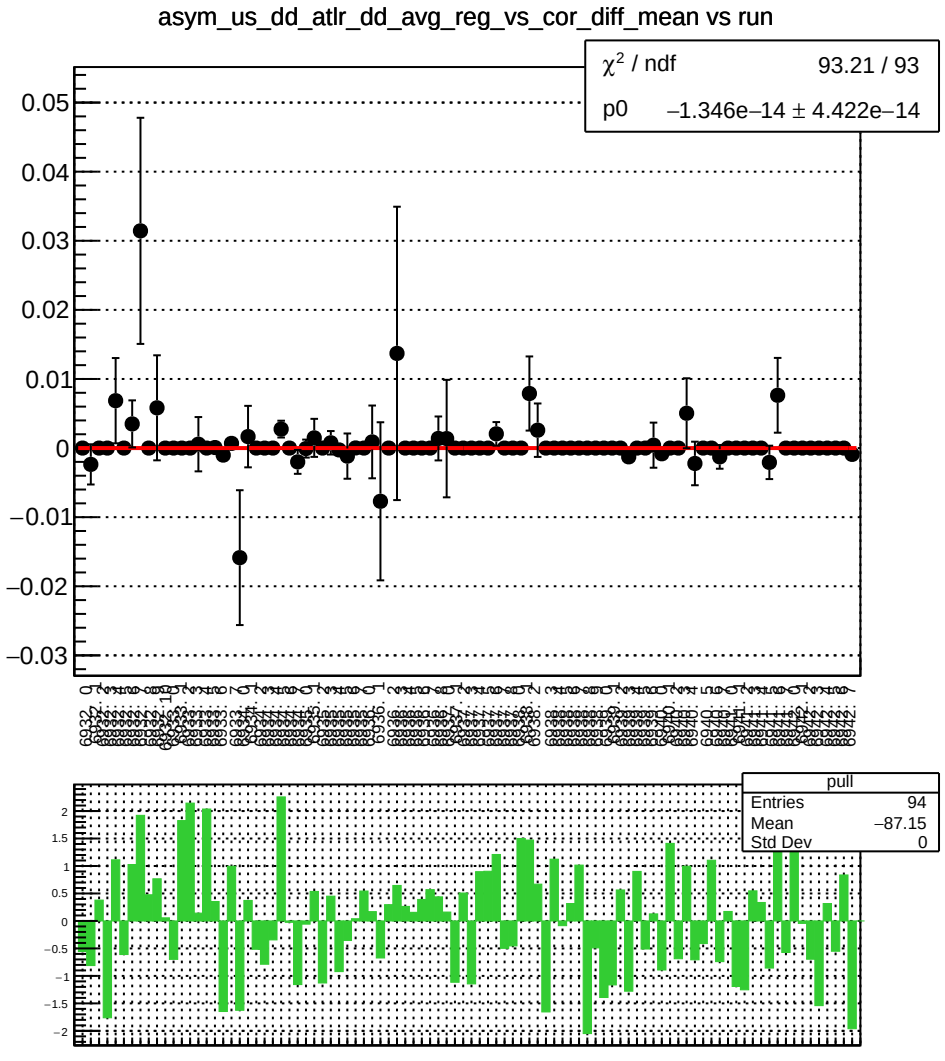

pull1D
Entries 94
Mean −0.007856
Std Dev 0.9494
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

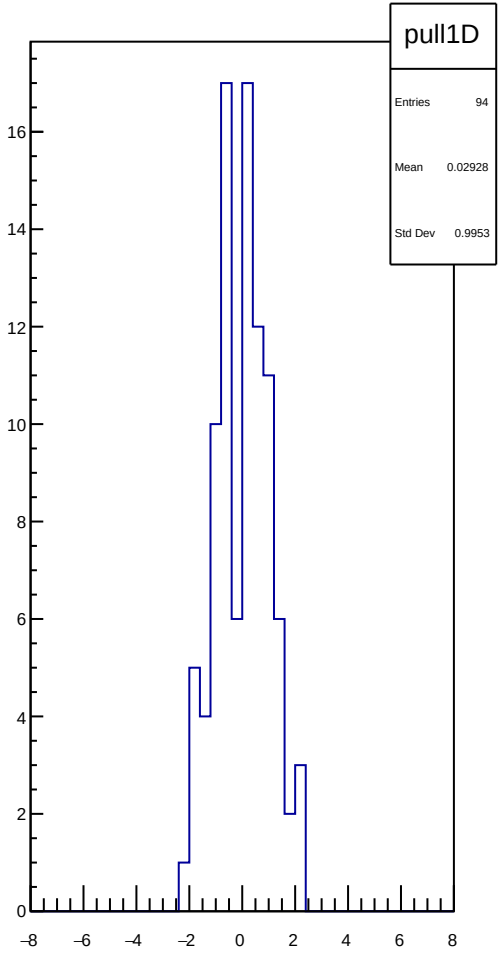

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 9529 / 93
p0 925.6 ± 0.6988
1200
1150
1100
1050
1000
950
900
850
800

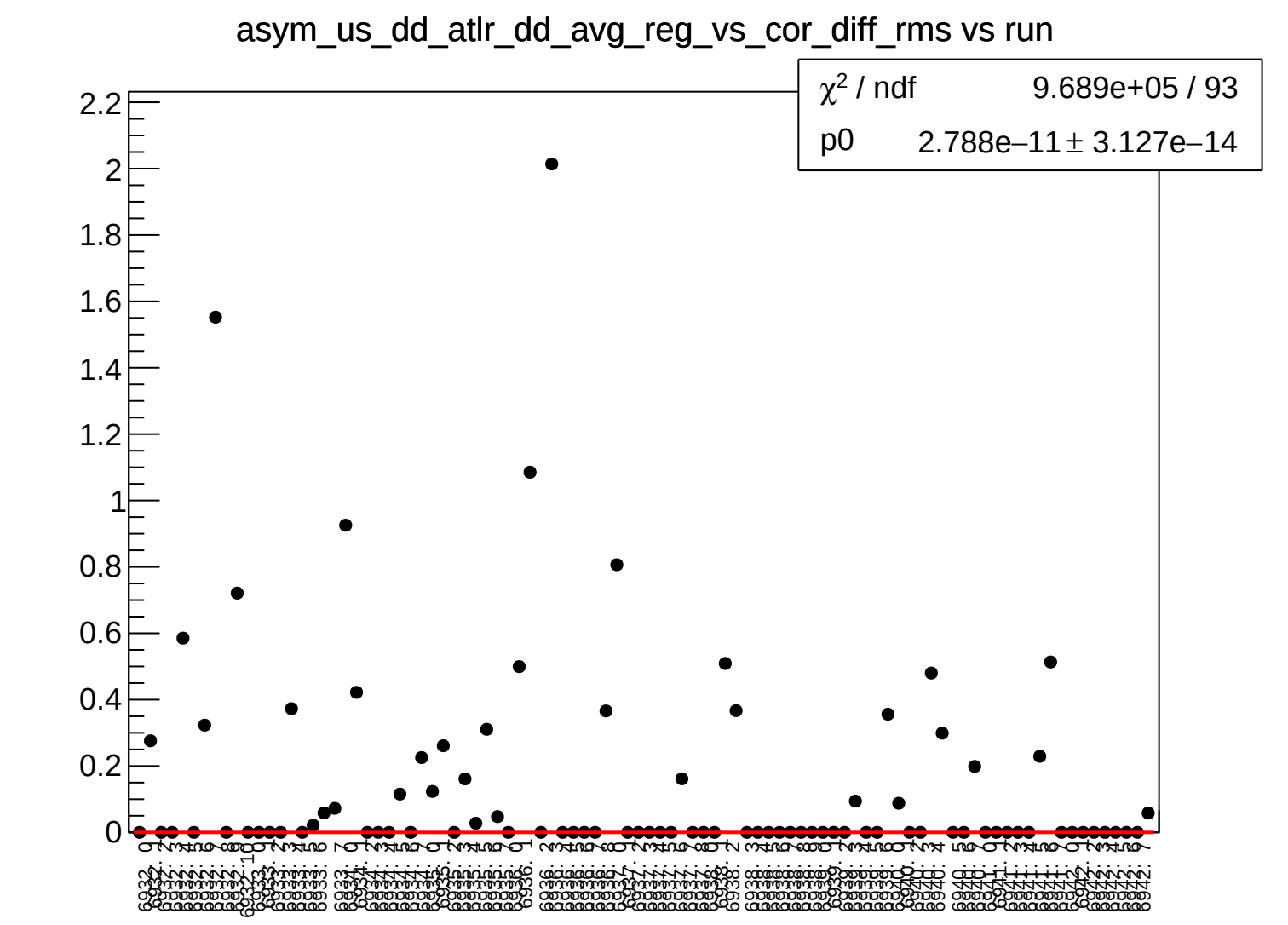

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.9 / 93
p0 1395 ± 2123
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −497.2
Std Dev 0
2
1
0
−1
−2

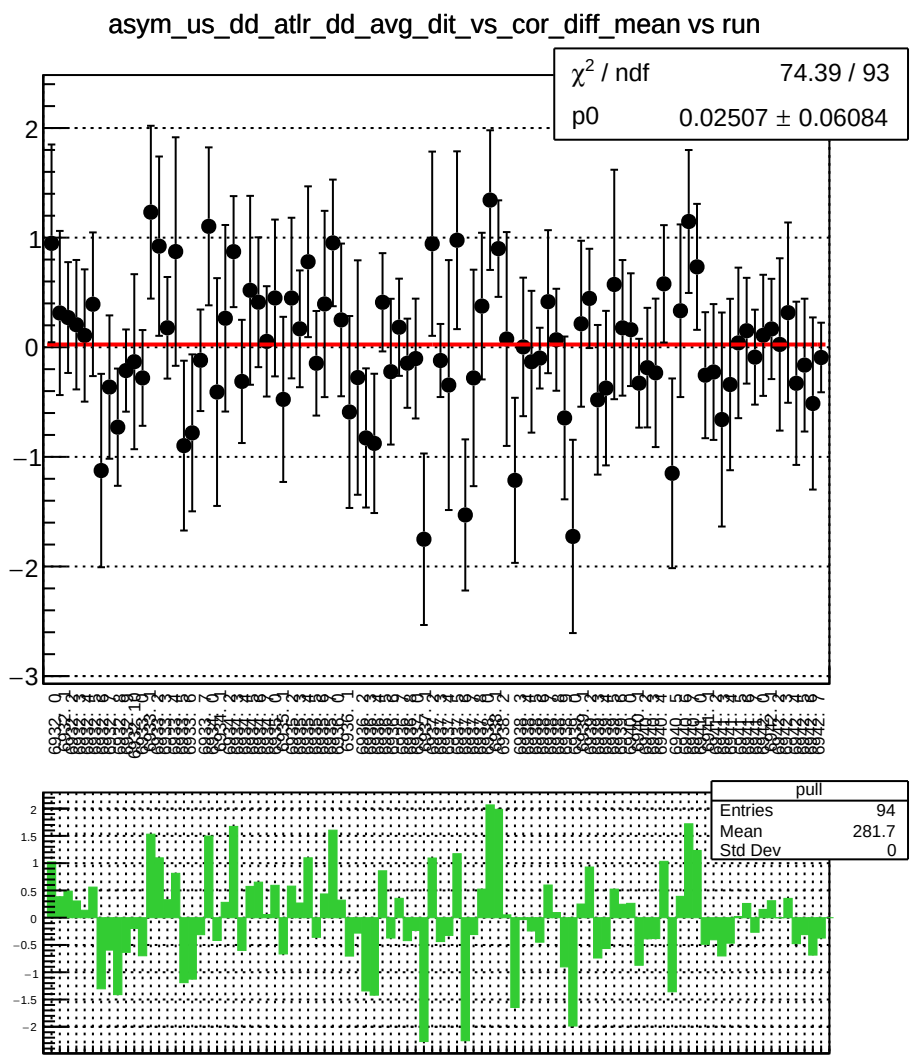

pull1D
Entries 94
Mean 0.004887
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

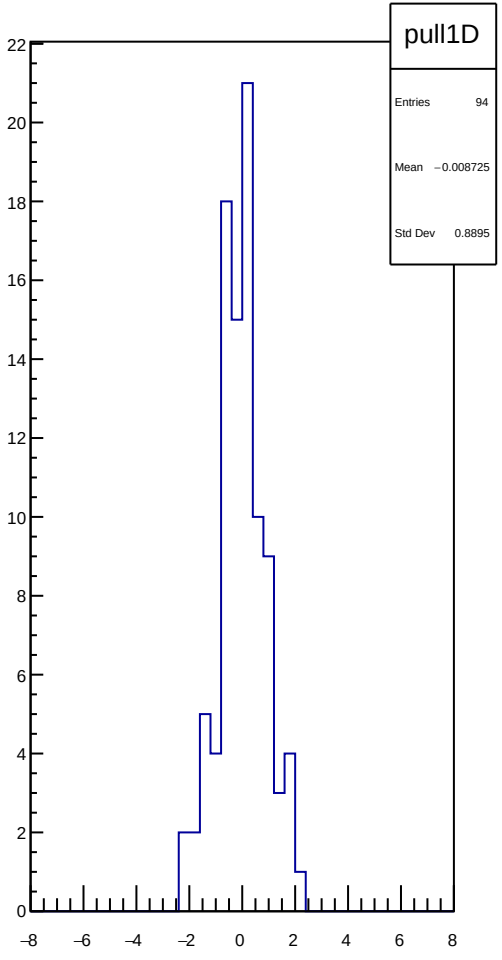

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 623.7 / 93
p0 1993 ± 1.501
2150
2100
2050
2000
1950

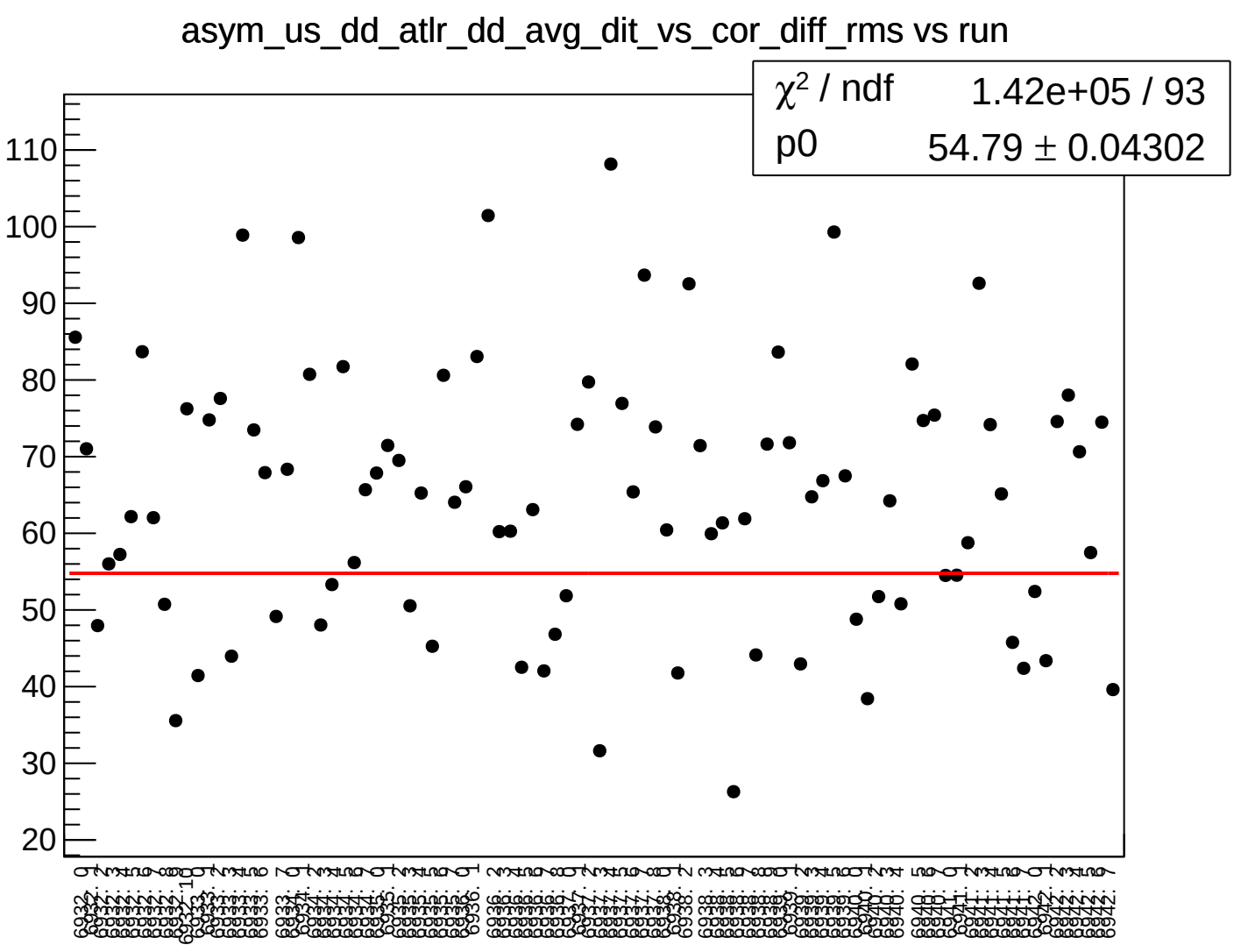

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.21 / 93
p0 −1.346e−14 ± 4.422e−14
pull
Entries 94
Mean −87.15
Std Dev 0

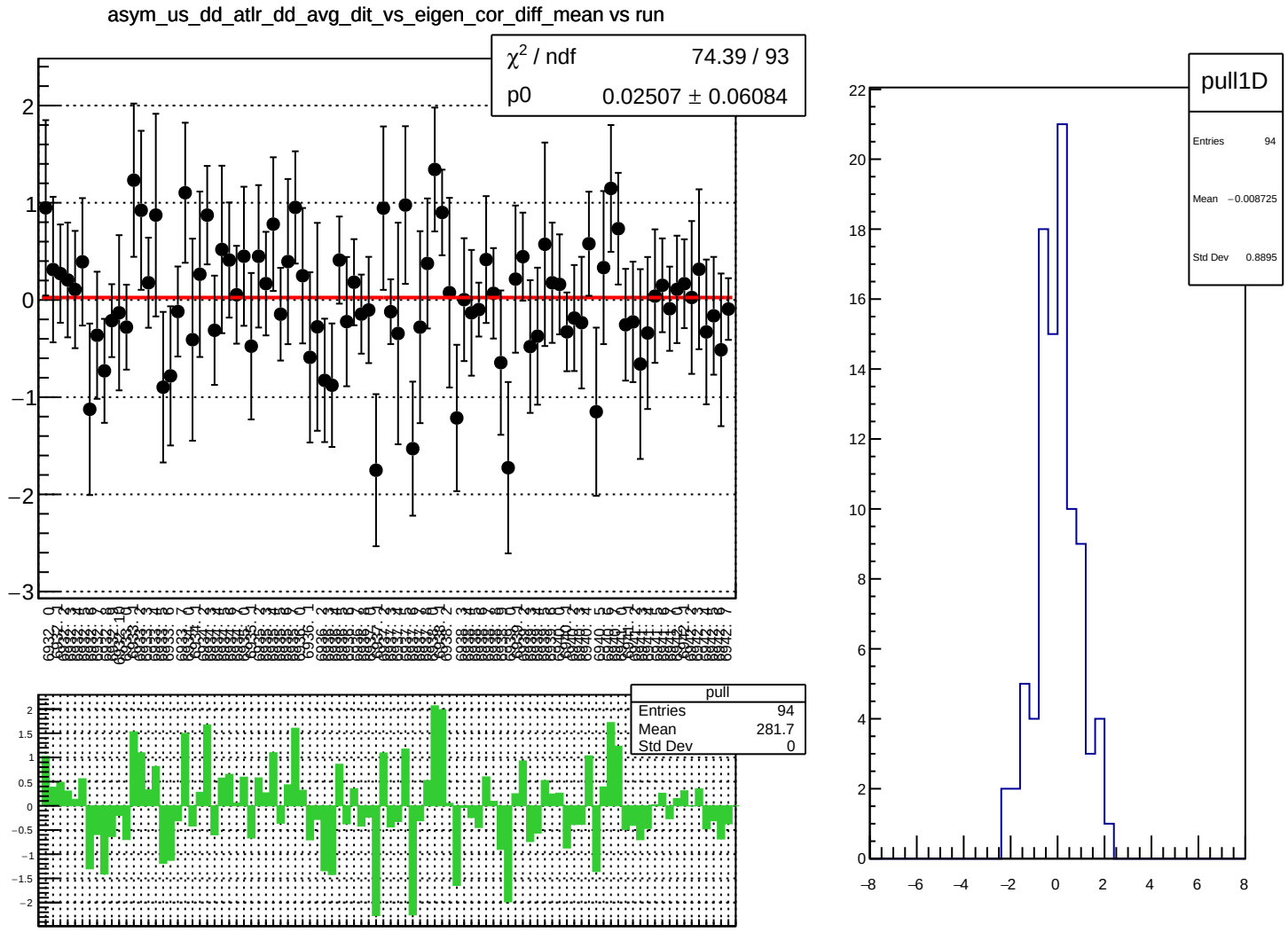

pull1D
Entries 94
Mean 0.02928
Std Dev 0.9953

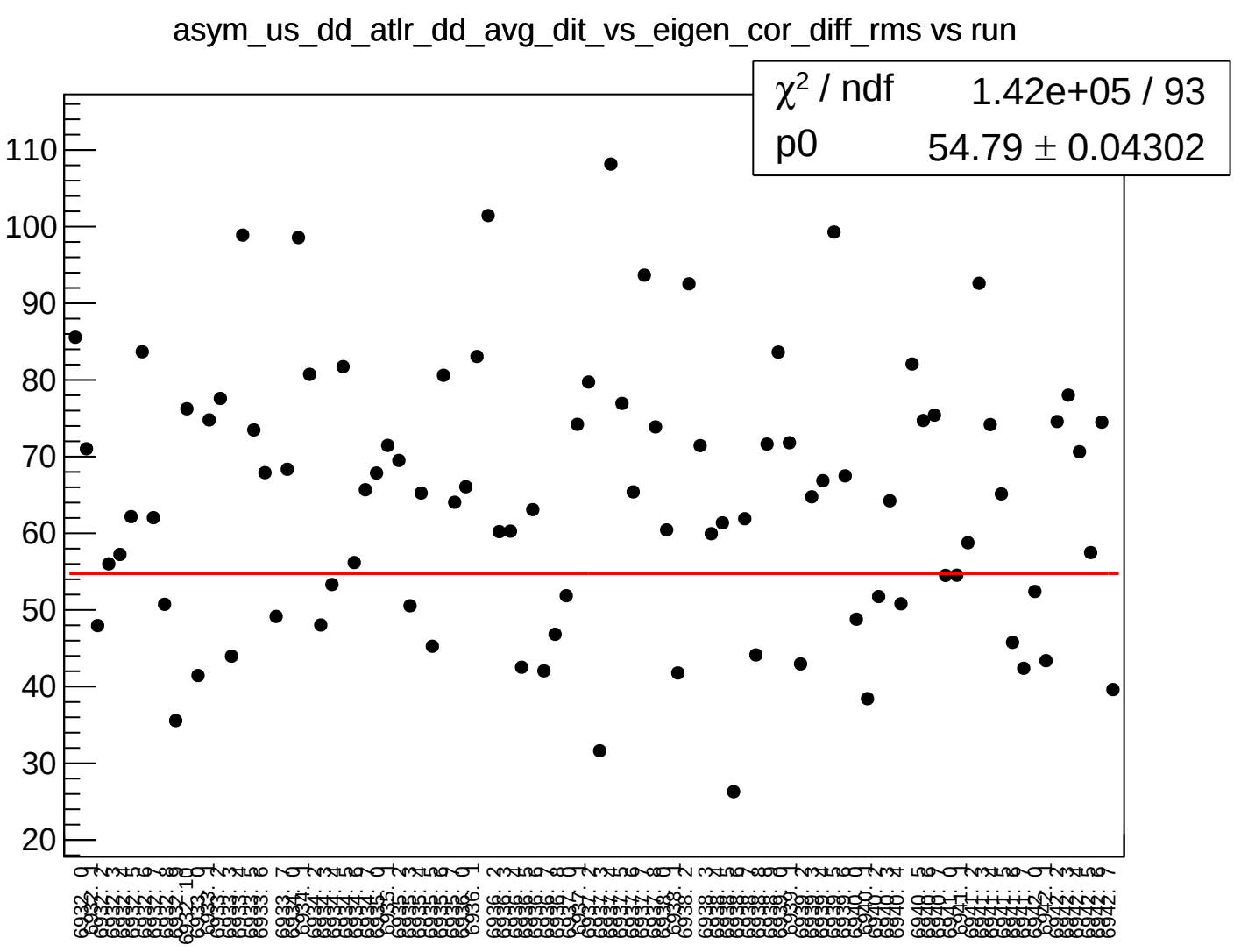

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.689e+05 / 93
p0 2.788e−11 ± 3.127e−14
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

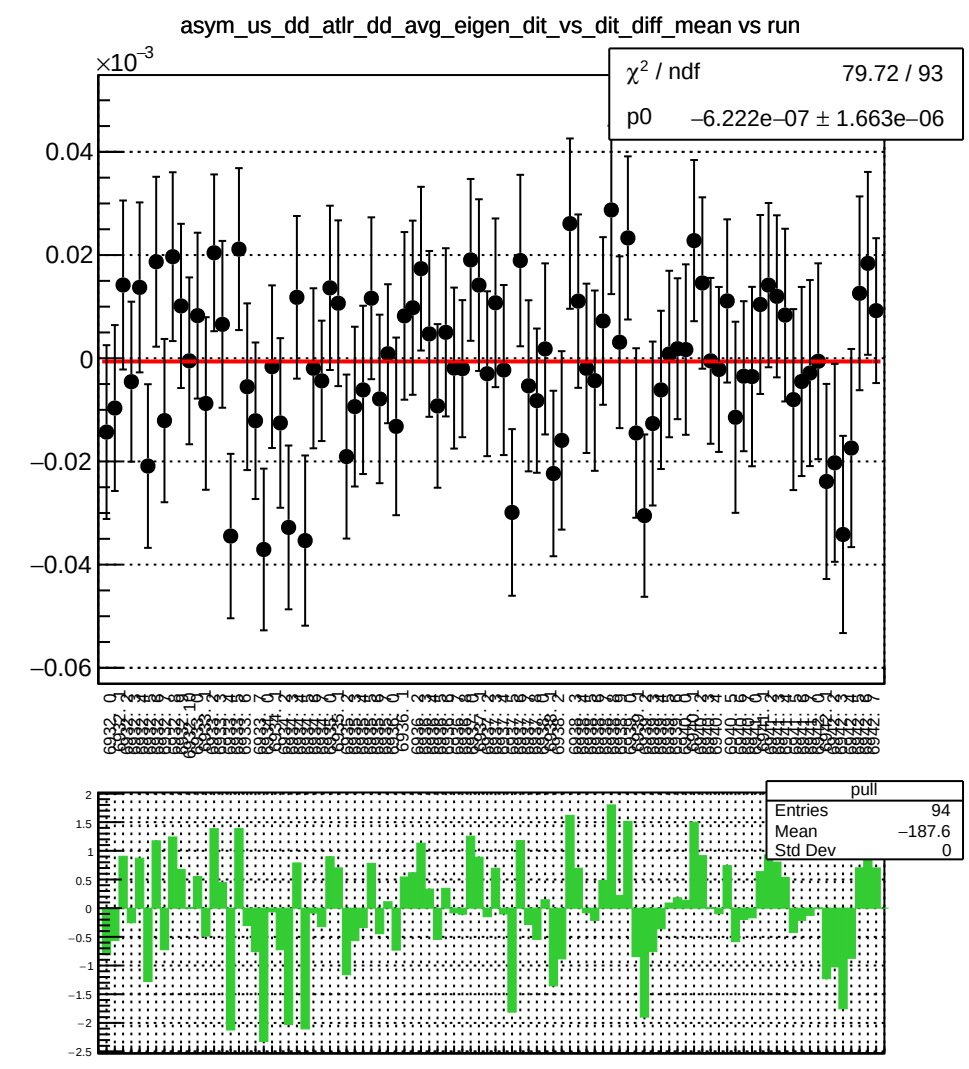

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.39 / 93
p0 0.02507 ± 0.06084
pull
Entries 94
Mean 281.7
Std Dev 0

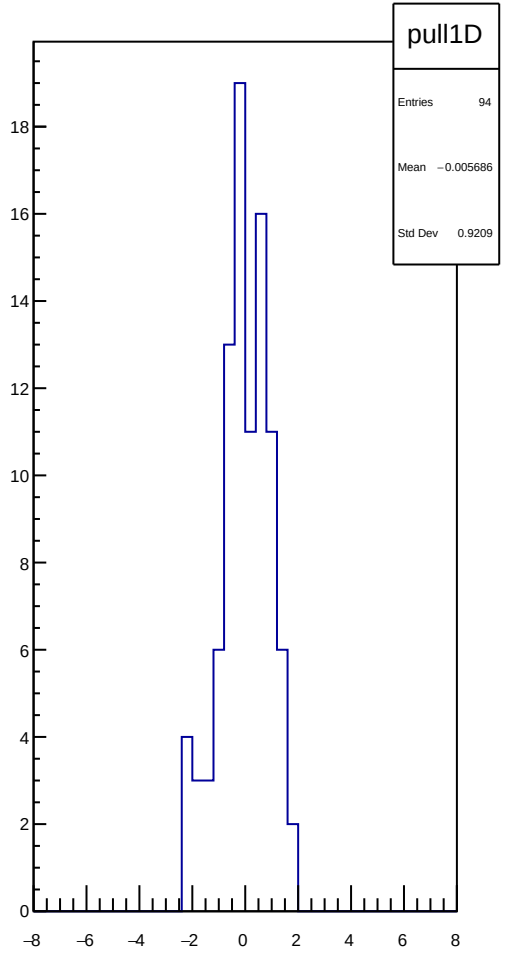

pull1D
Entries 94
Mean −0.008725
Std Dev 0.8895

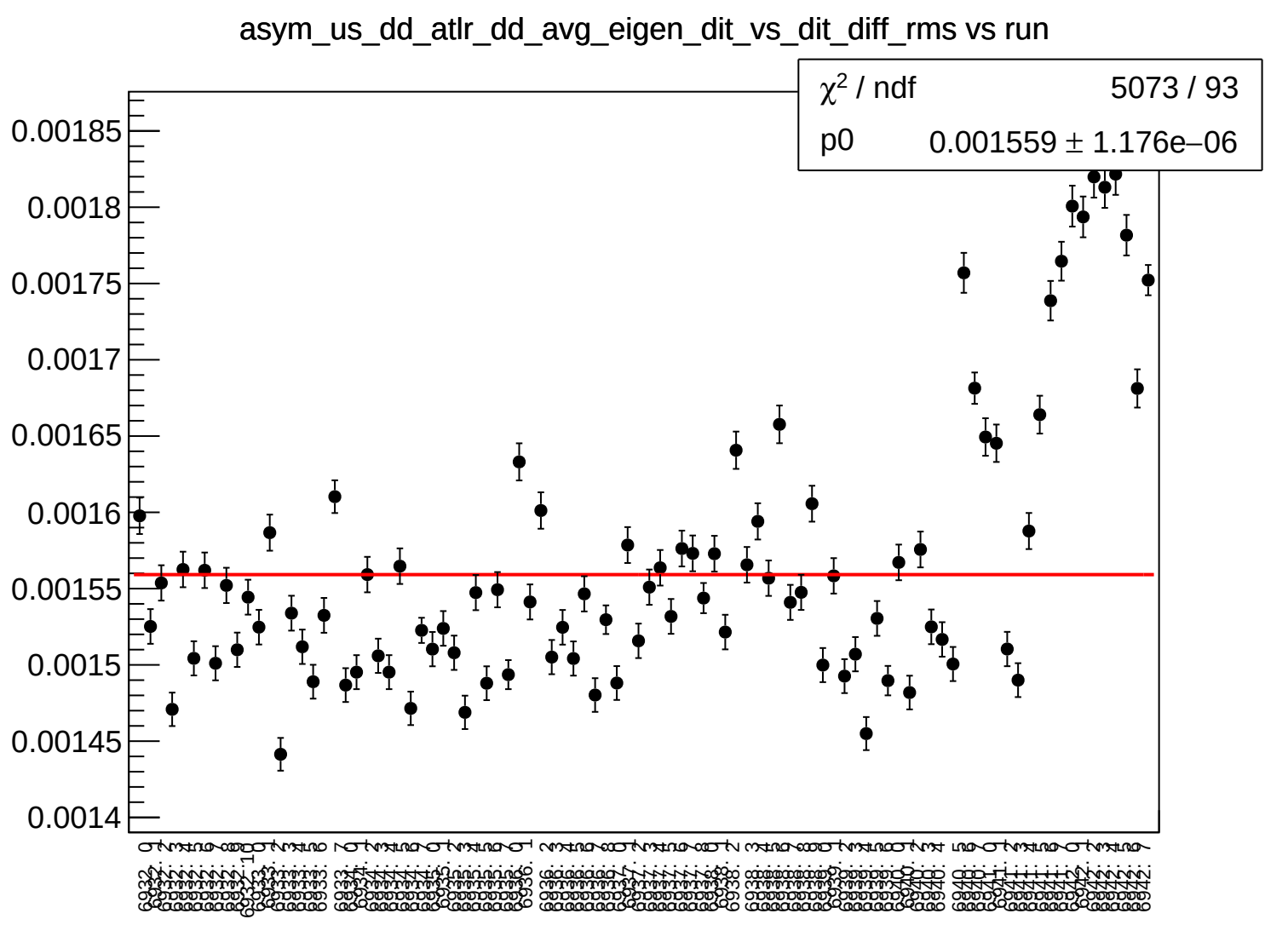

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.42e+05 / 93
p0 54.79 ± 0.04302
110
100
90
80
70
60
50
40
30
20

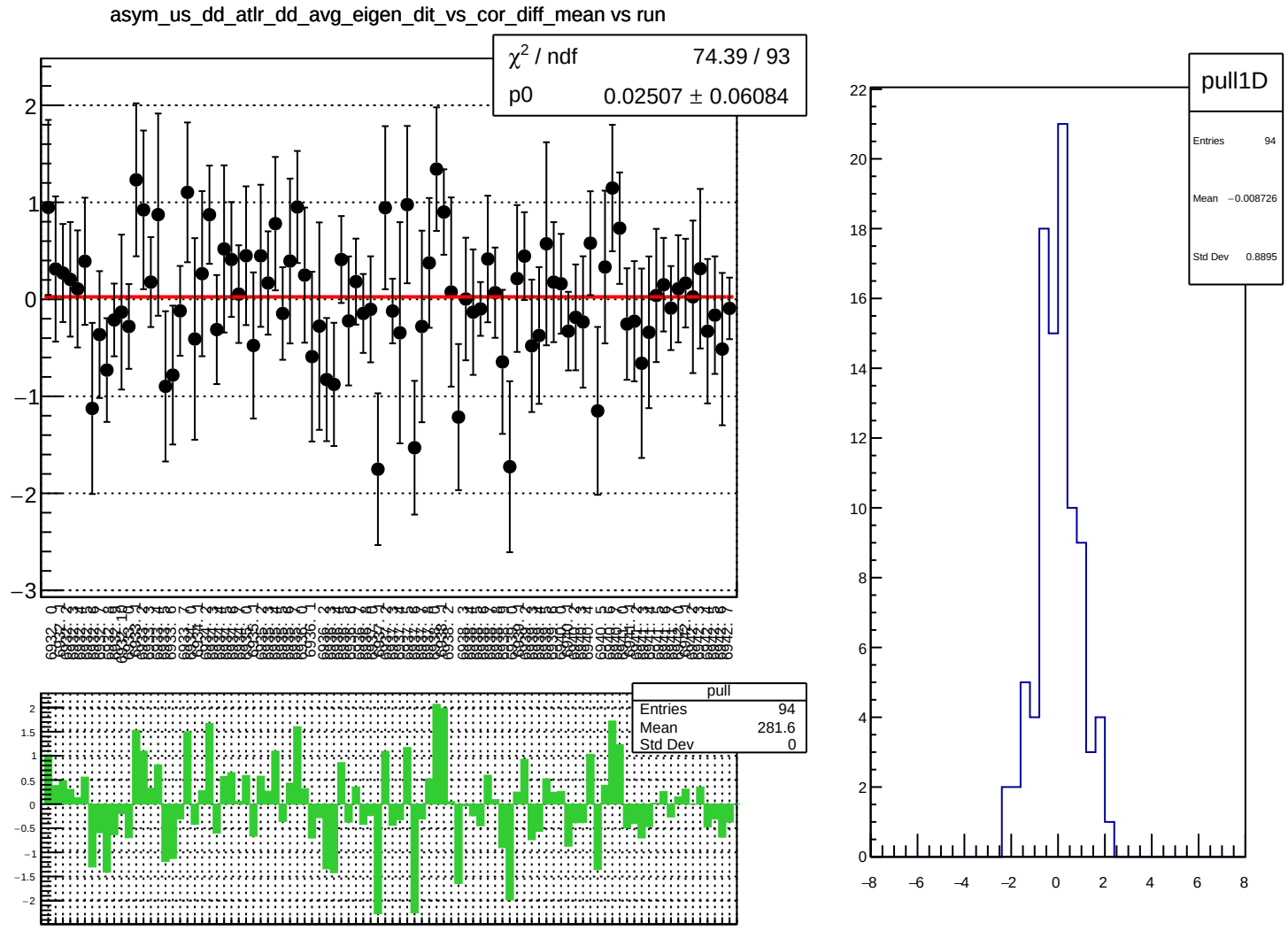

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.39 / 93
p0 0.02507 ± 0.06084
pull
Entries 94
Mean 281.7
Std Dev 0
pull1D
Entries 94
Mean −0.008725
Std Dev 0.8895

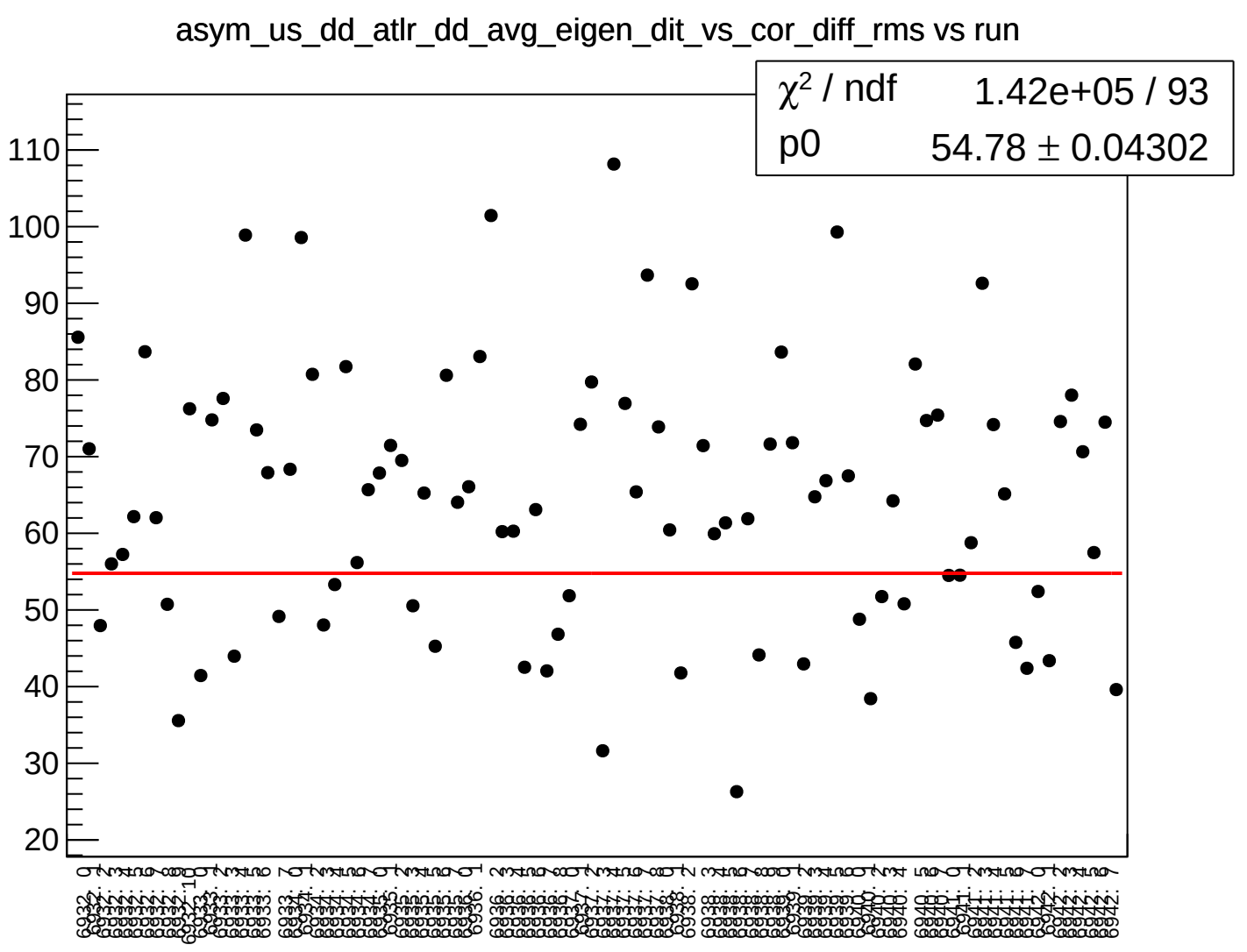

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.42e+05 / 93
p0 54.79 ± 0.04302
110
100
90
80
70
60
50
40
30
20

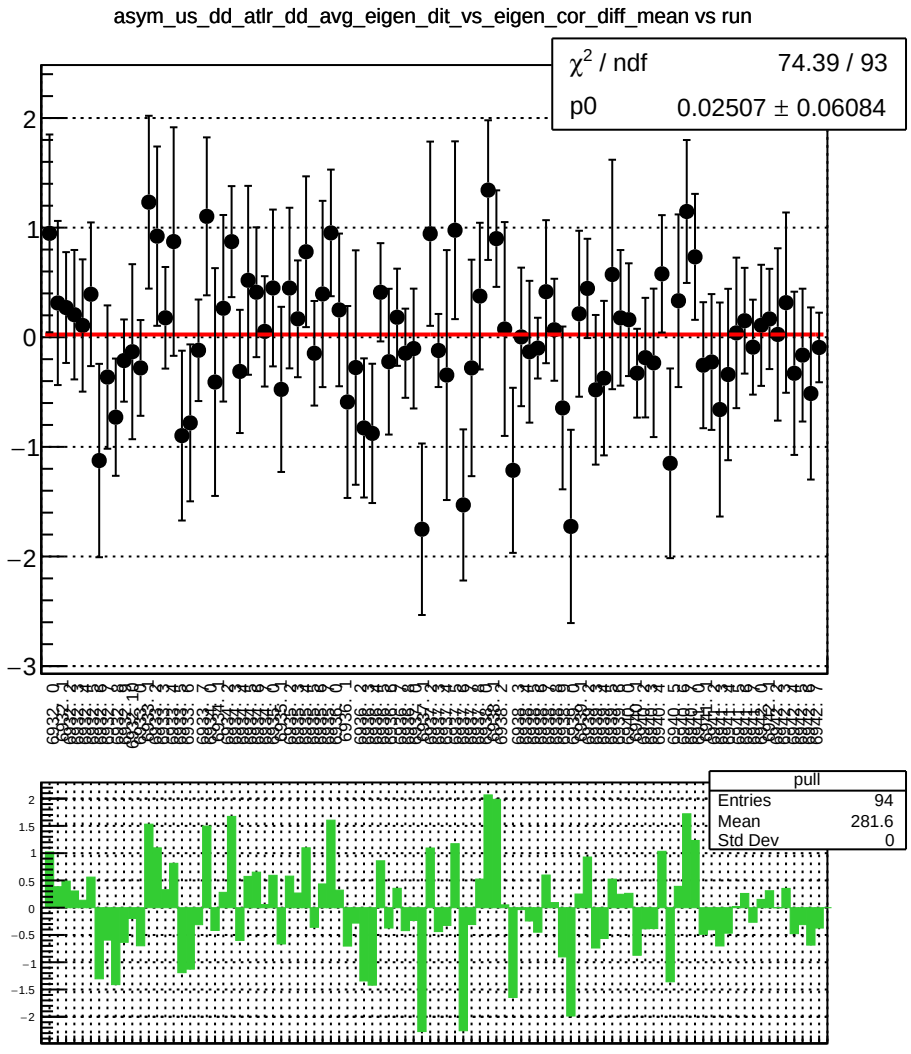

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.72 / 93
p0 −6.222e−07 ± 1.663e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −187.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

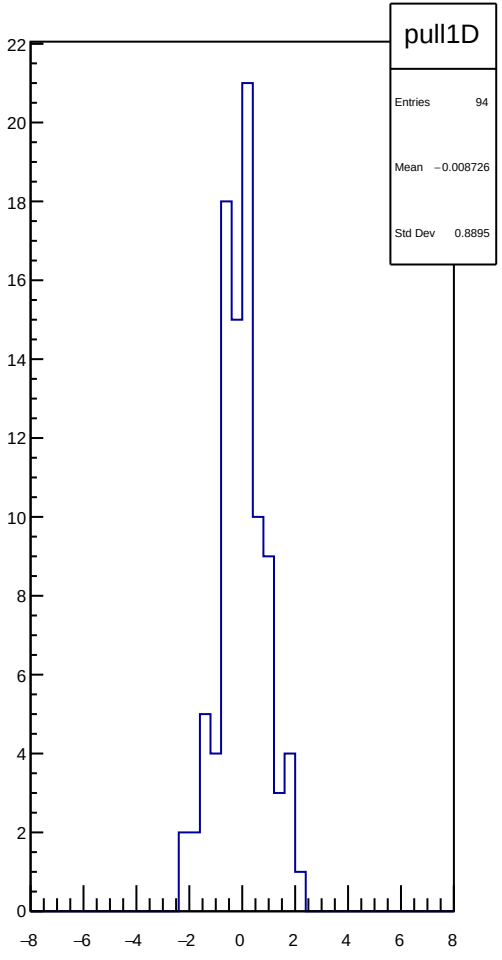

pull1D
Entries 94
Mean −0.005686
Std Dev 0.9209
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

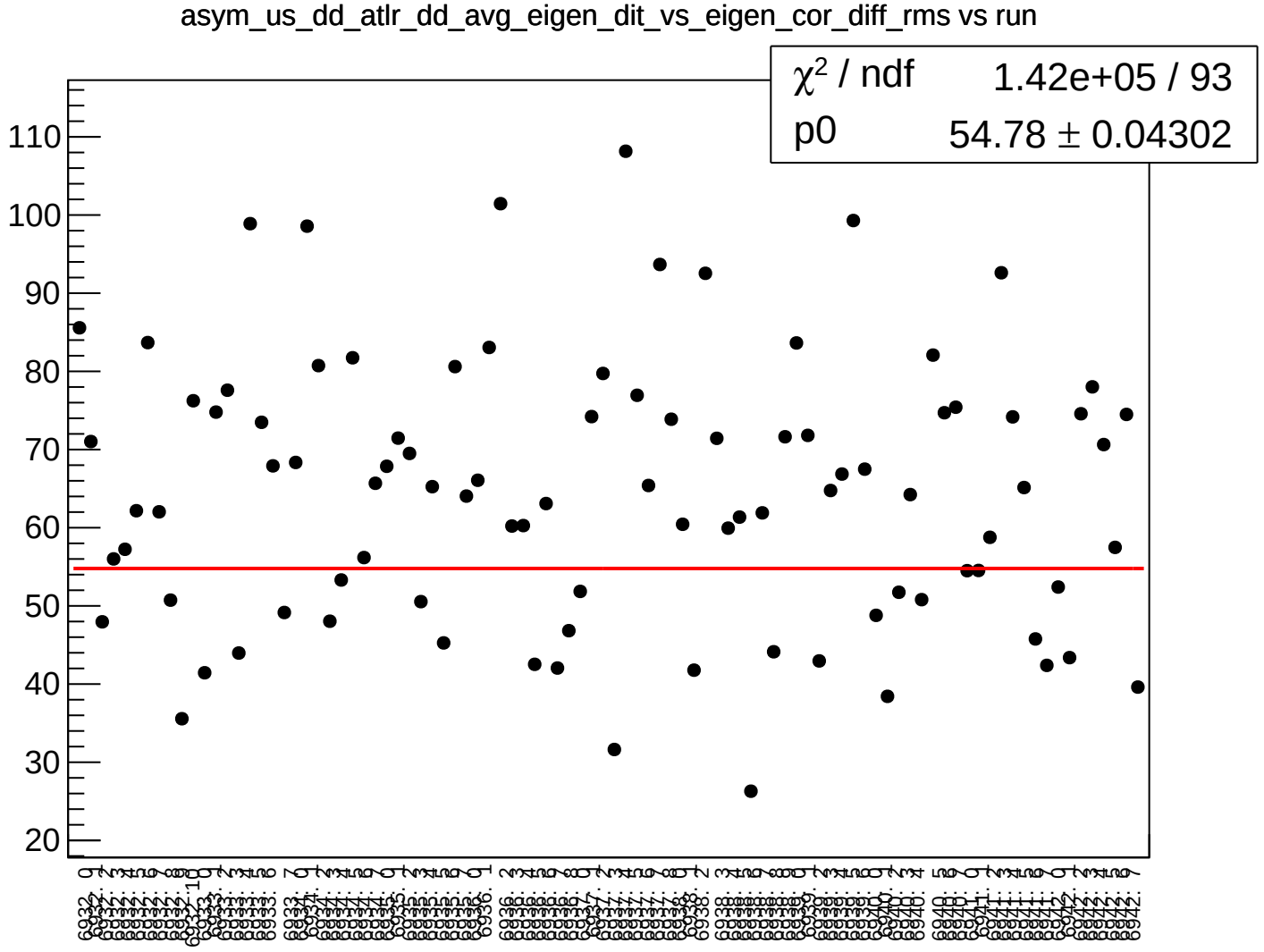

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5073 / 93
p0 0.001559 ± 1.176e−06
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

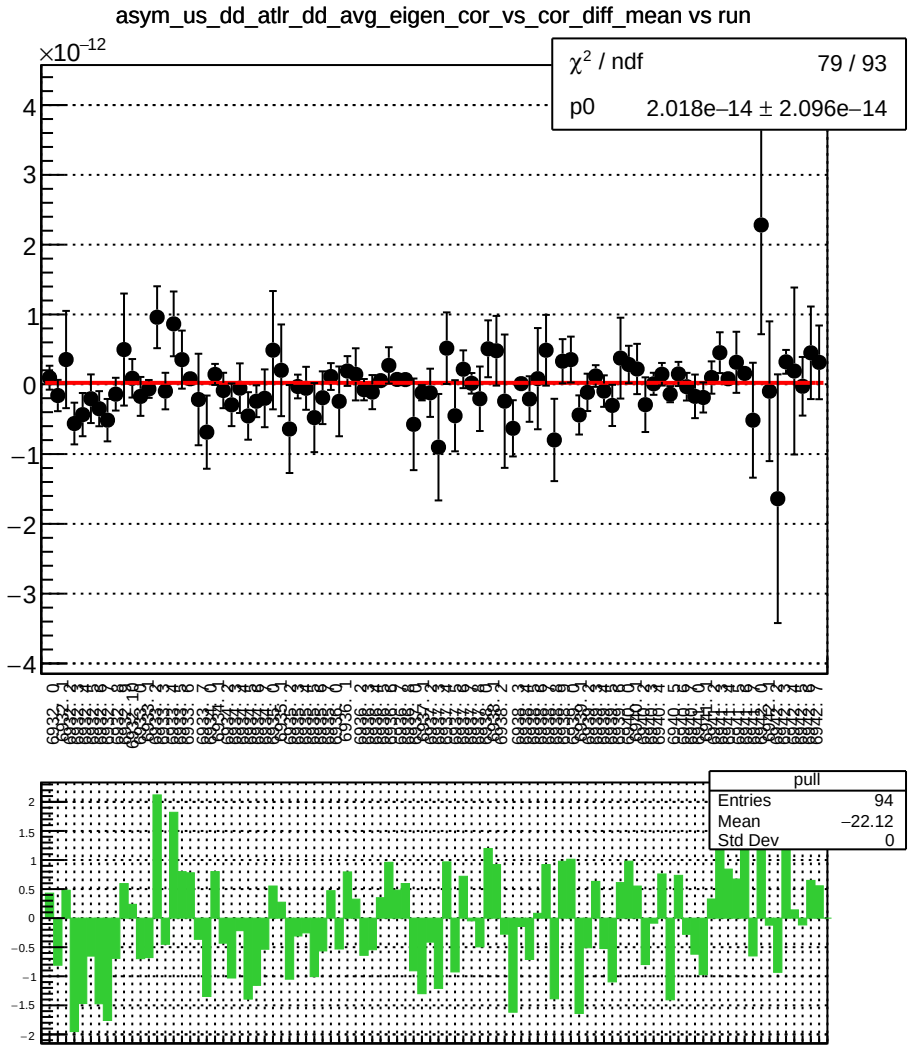

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.39 / 93
p0 0.02507 ± 0.06084
pull
Entries 94
Mean 281.6
Std Dev 0
pull1D
Entries 94
Mean −0.008726
Std Dev 0.8895

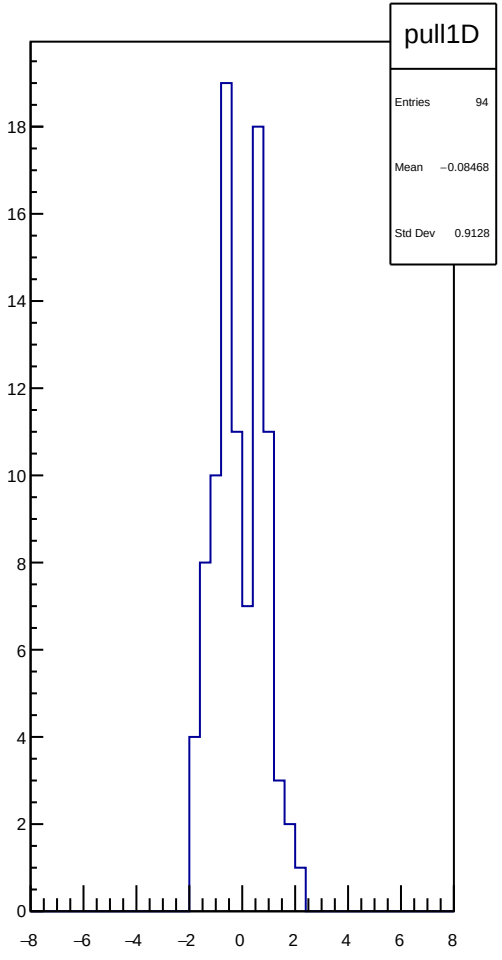

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.42e+05 / 93
p0 54.78 ± 0.04302
110
100
90
80
70
60
50
40
30
20

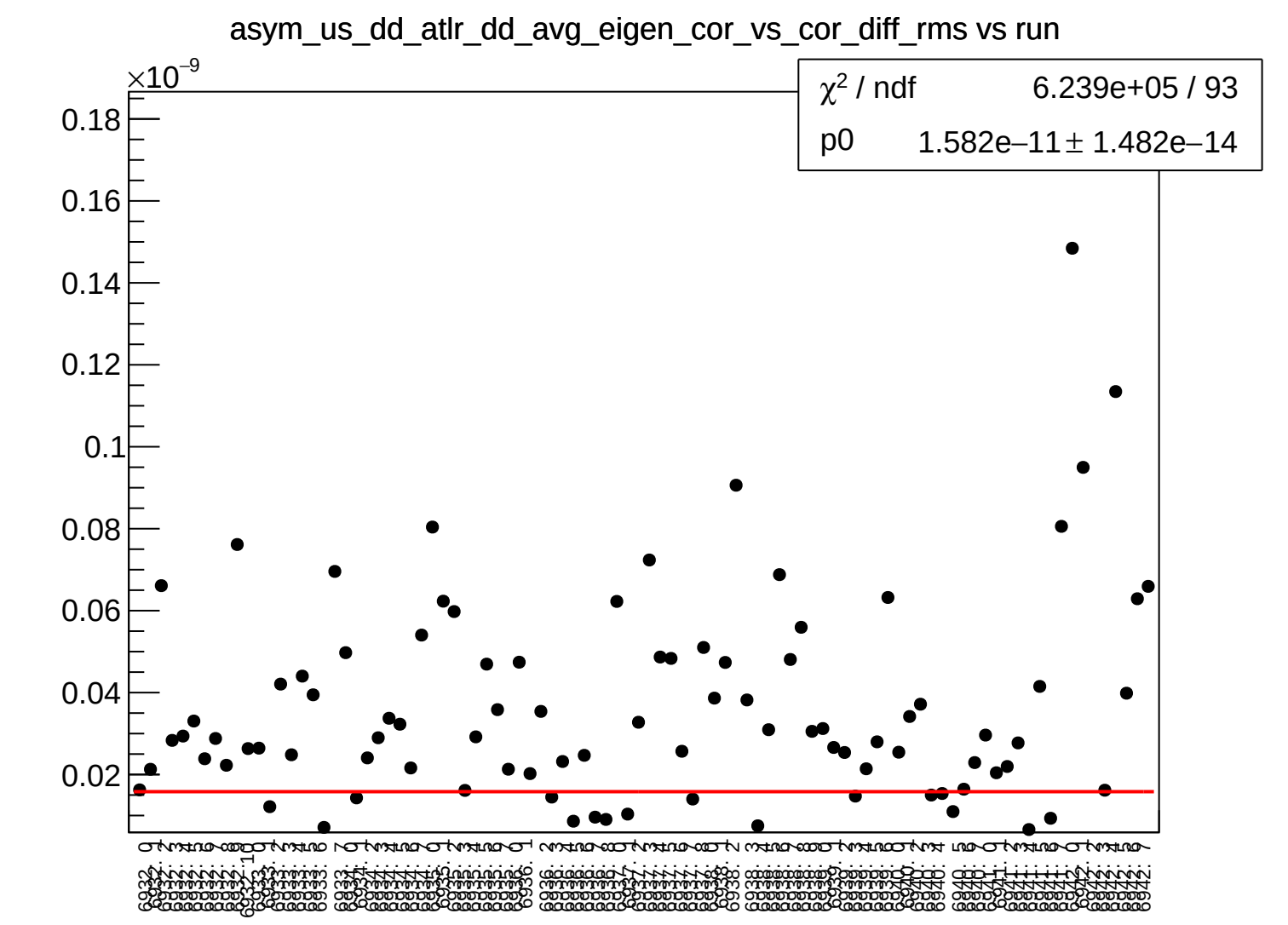

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.39 / 93
p0 0.02507 ± 0.06084
pull
Entries 94
Mean 281.6
Std Dev 0

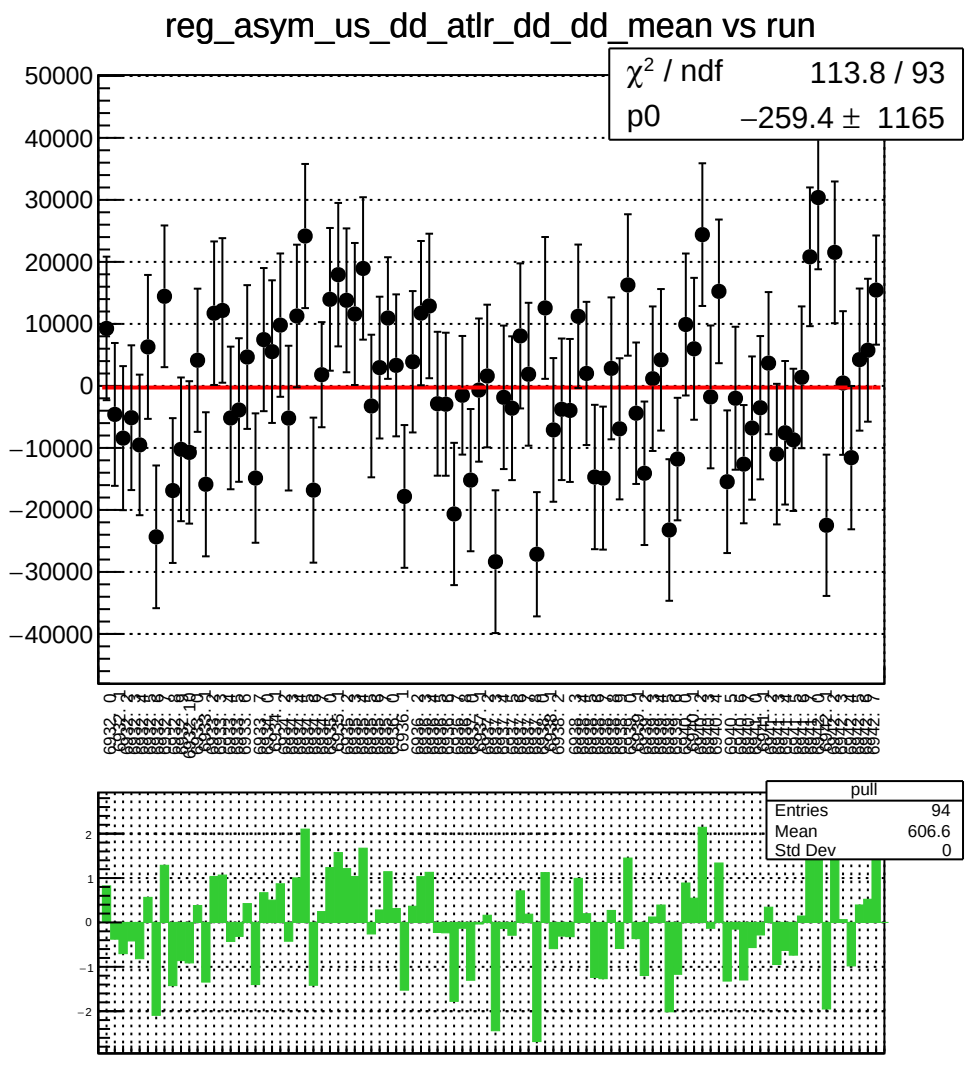

pull1D
Entries 94
Mean −0.008726
Std Dev 0.8895

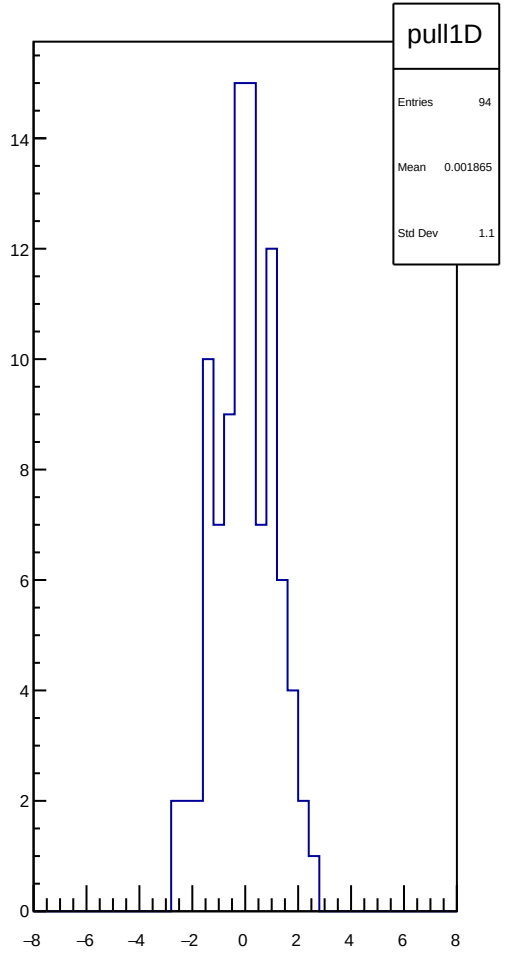

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.42e+05 / 93
p0 54.78 ± 0.04302
110
100
90
80
70
60
50
40
30
20

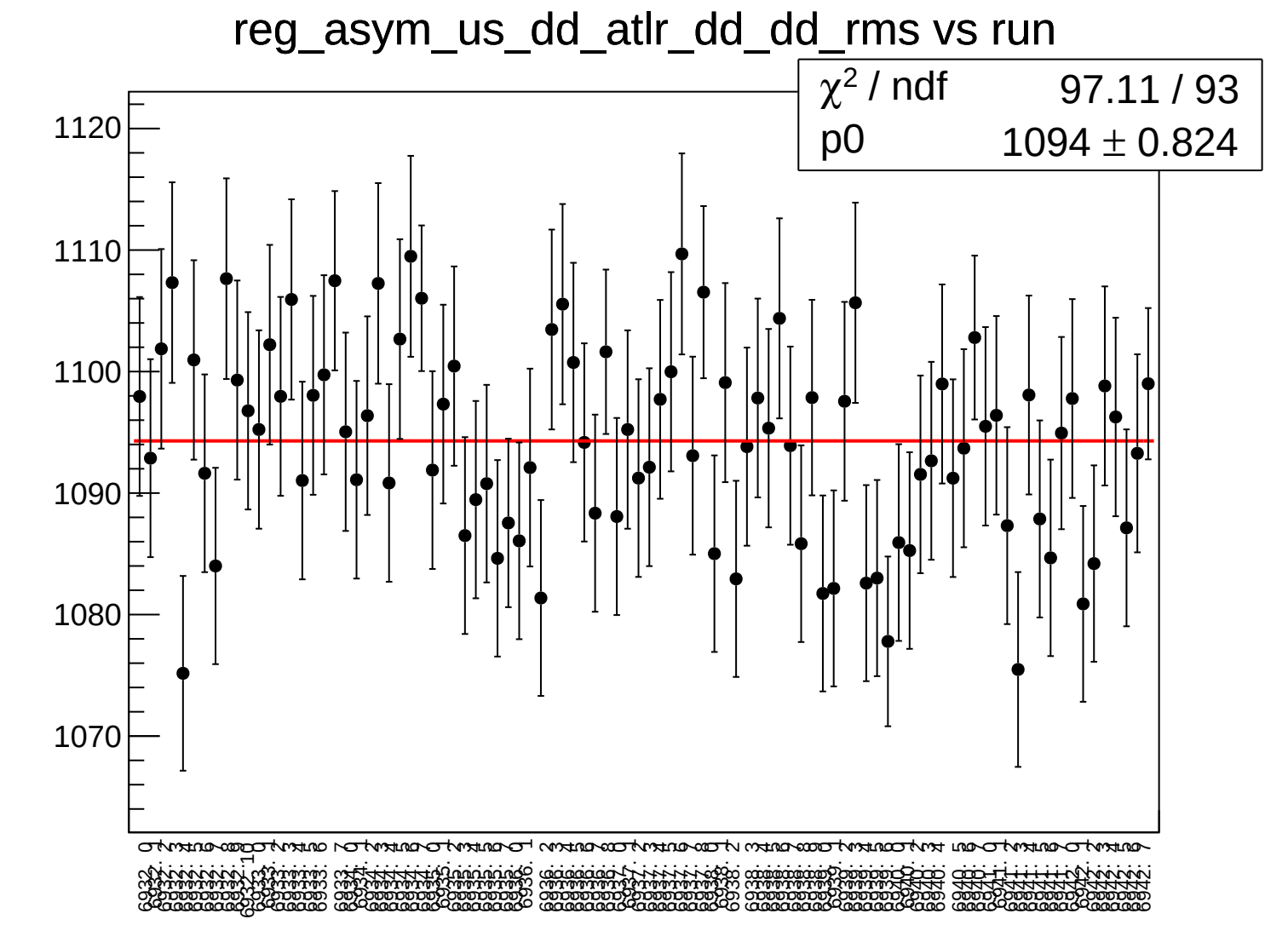

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79 / 93
p0 2.018e−14 ± 2.096e−14
pull
Entries 94
Mean −22.12
Std Dev 0

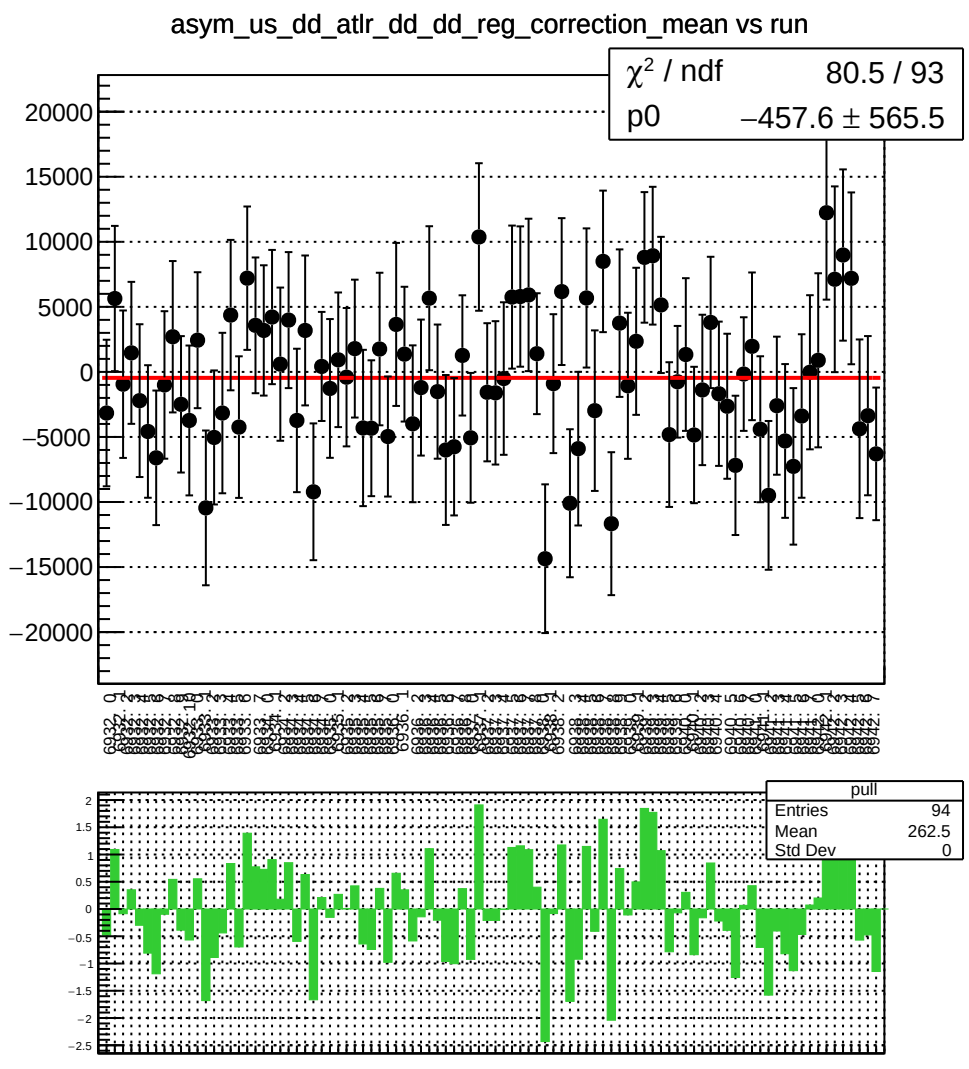

pull1D
Entries 94
Mean −0.08468
Std Dev 0.9128

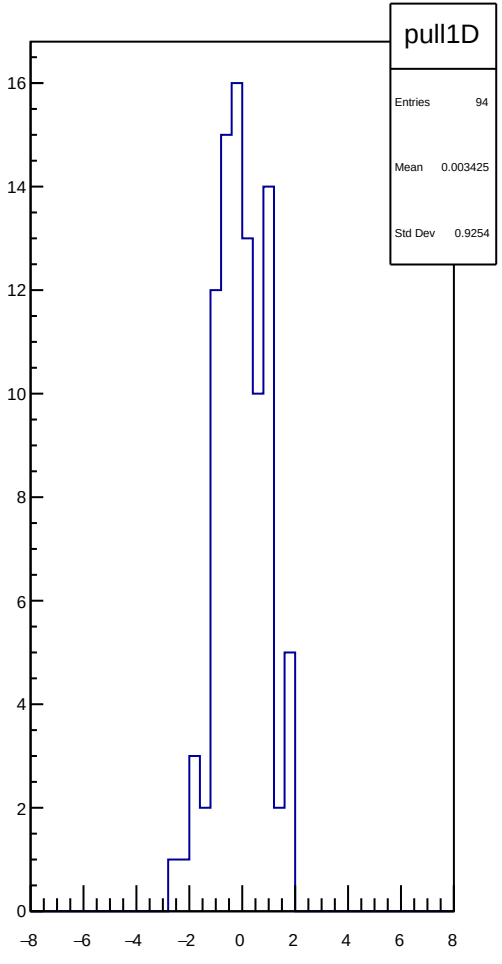

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.239e+05 / 93
p0 1.582e−11 ± 1.482e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

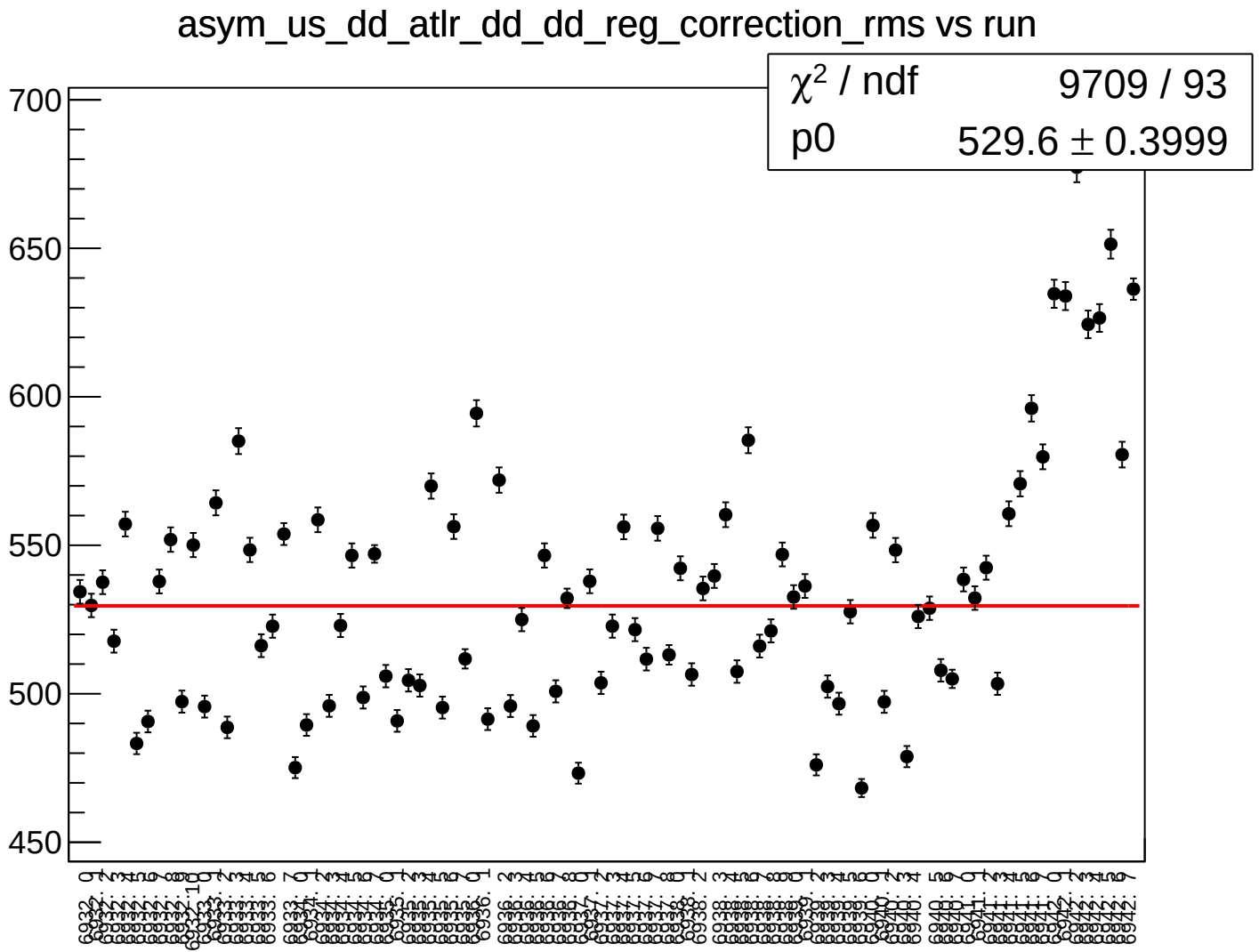

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −259.4 ± 1165
pull
Entries 94
Mean 606.6
Std Dev 0

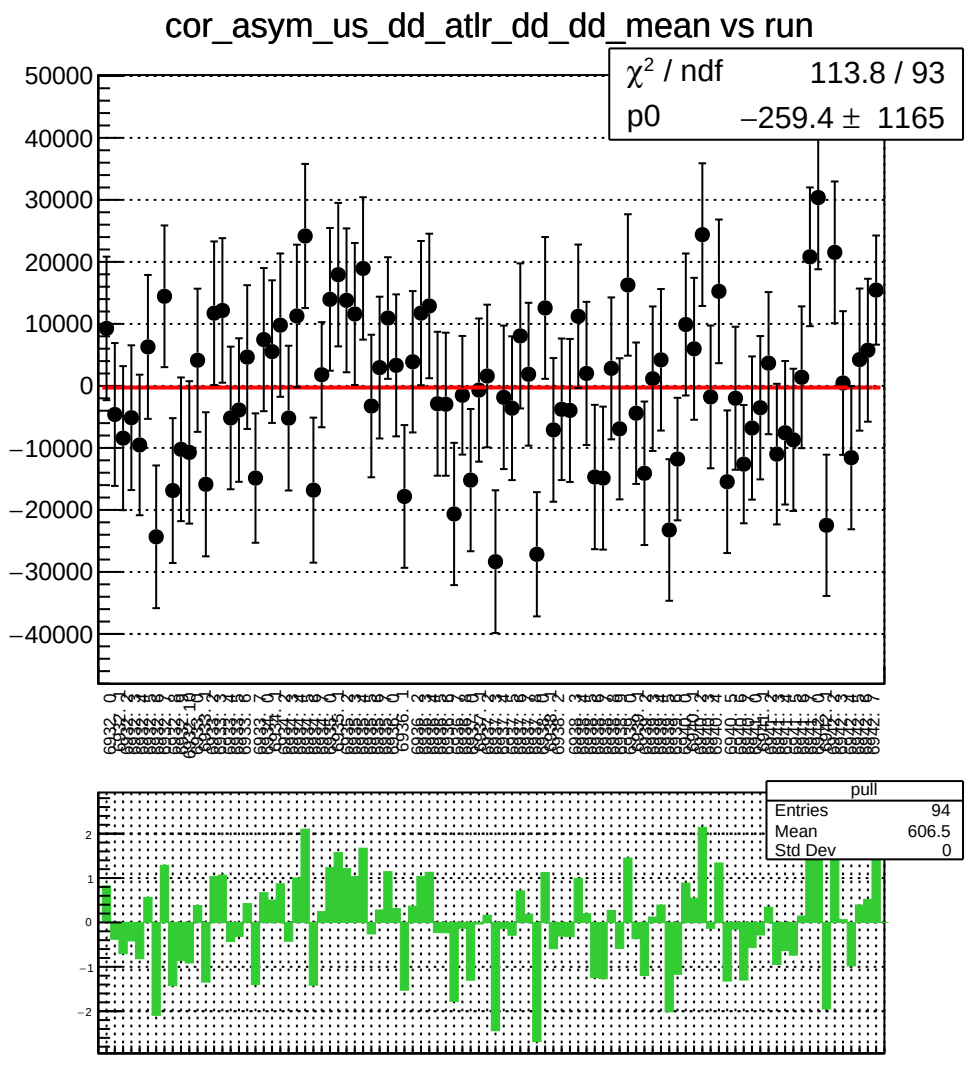

pull1D
Entries 94
Mean 0.001865
Std Dev 1.1

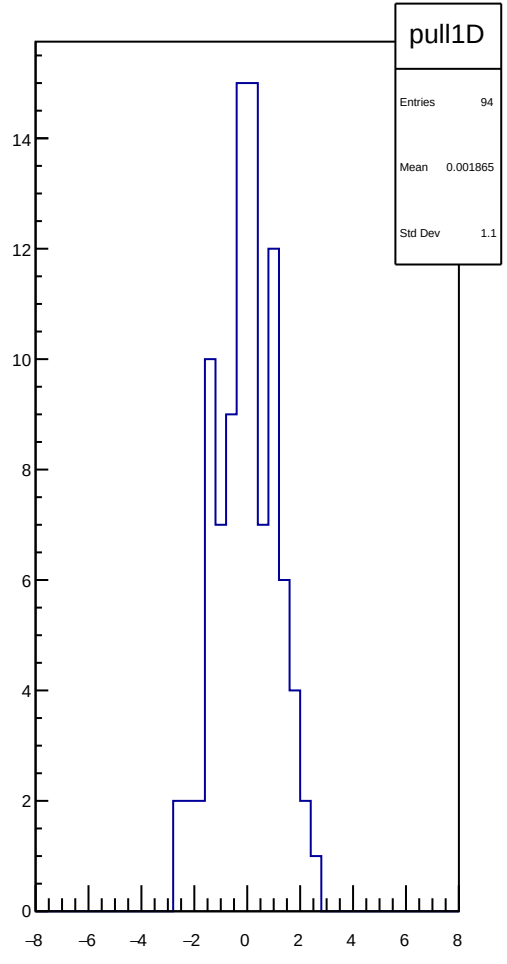

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 97.11 / 93
p0 1094 ± 0.824
1120
1110
1100
1090
1080
1070

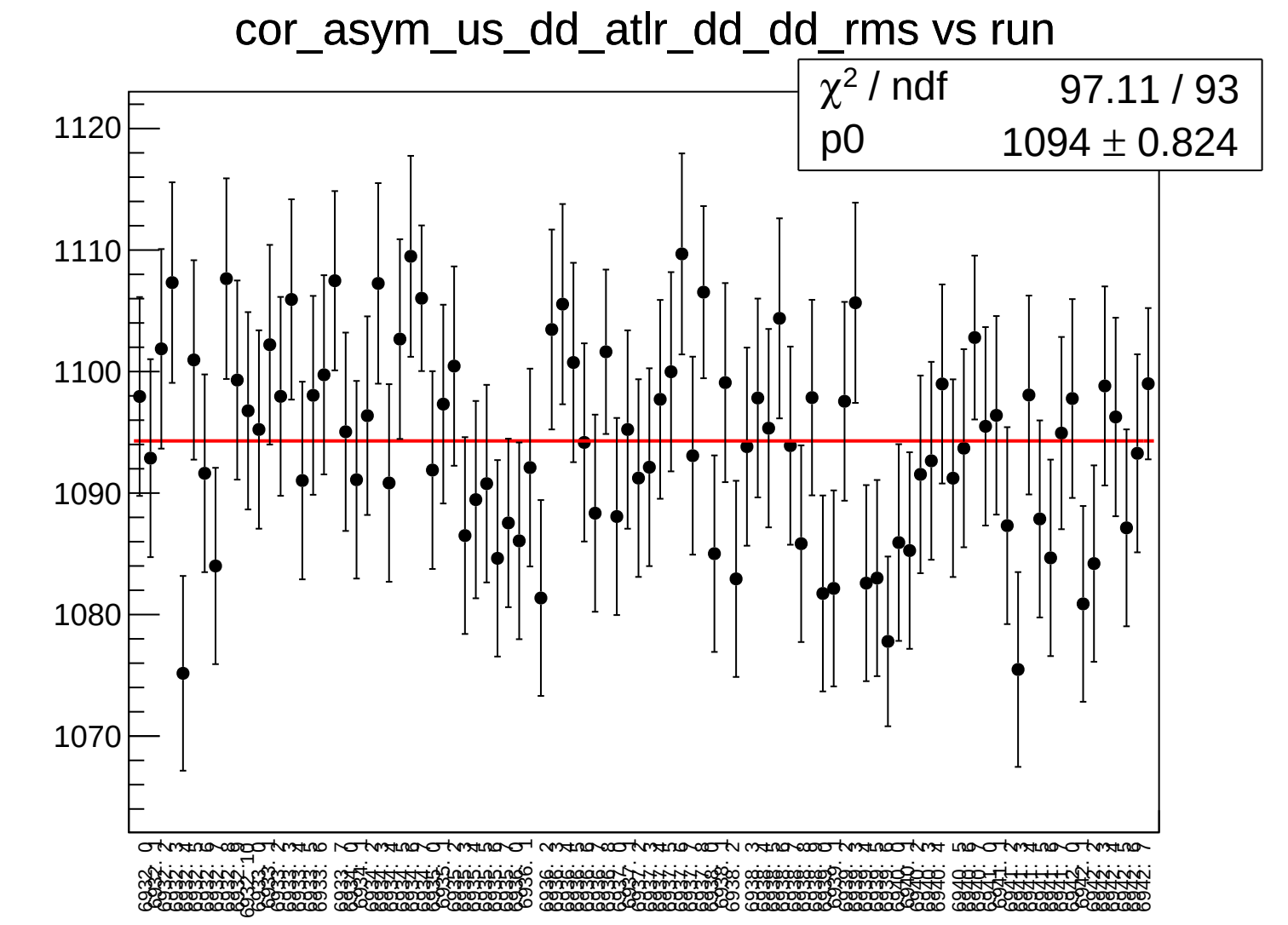

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 80.5 / 93
p0 −457.6 ± 565.5
pull
Entries 94
Mean 262.5
Std Dev 0

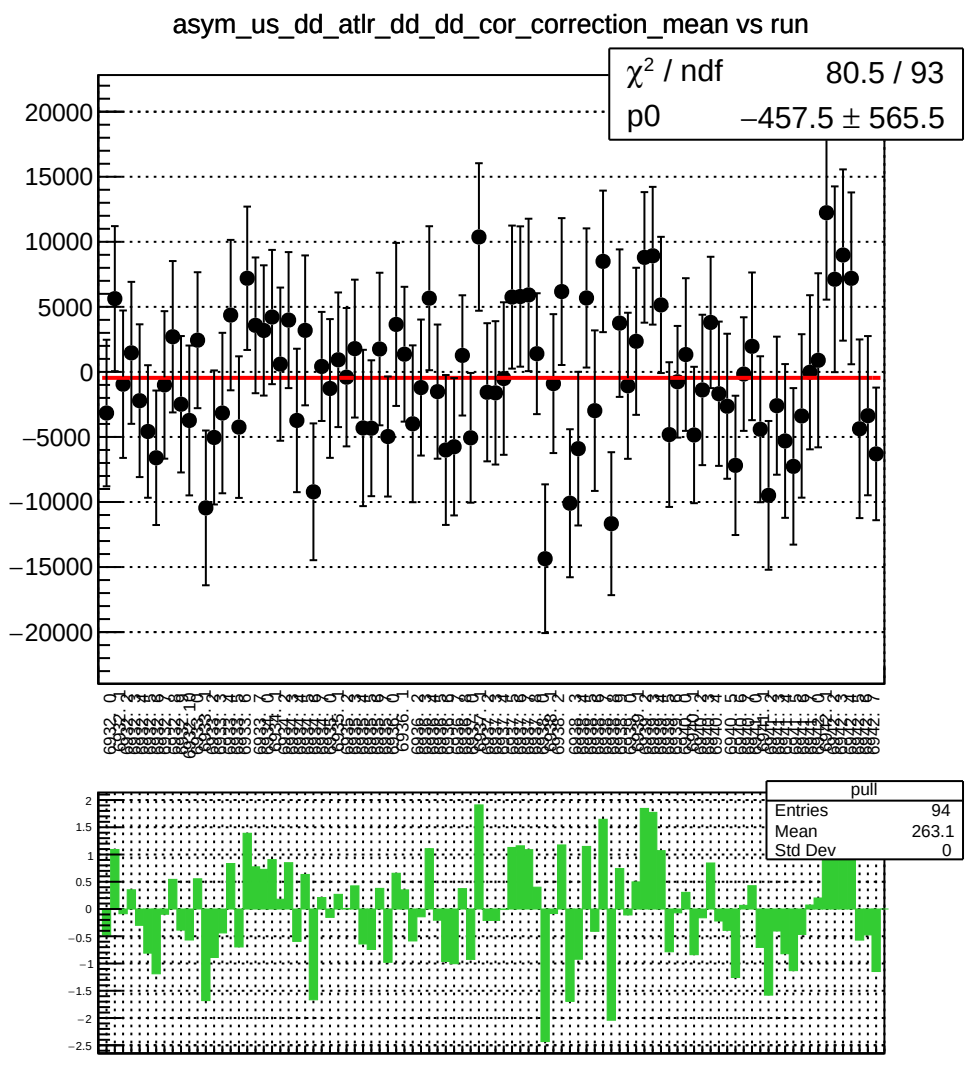

pull1D
Entries 94
Mean 0.003425
Std Dev 0.9254

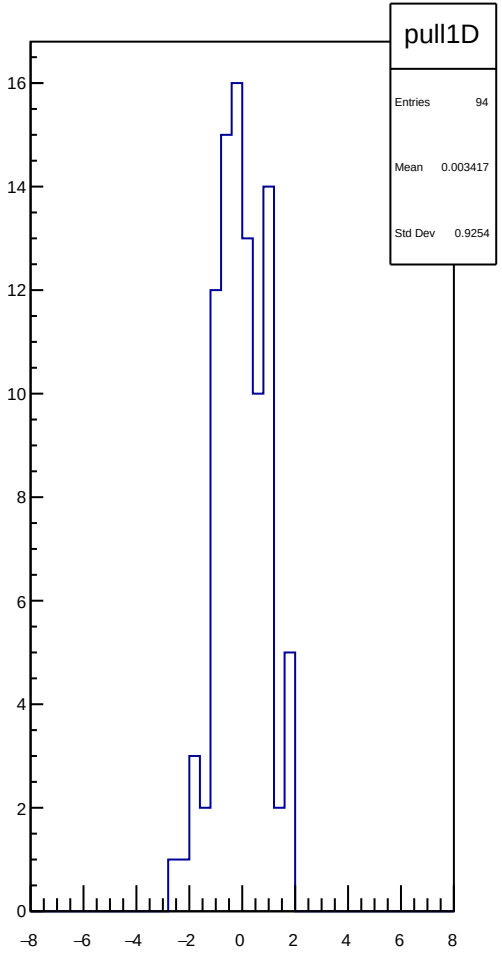

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 9709 / 93
p0 529.6 ± 0.3999
700
650
600
550
500
450

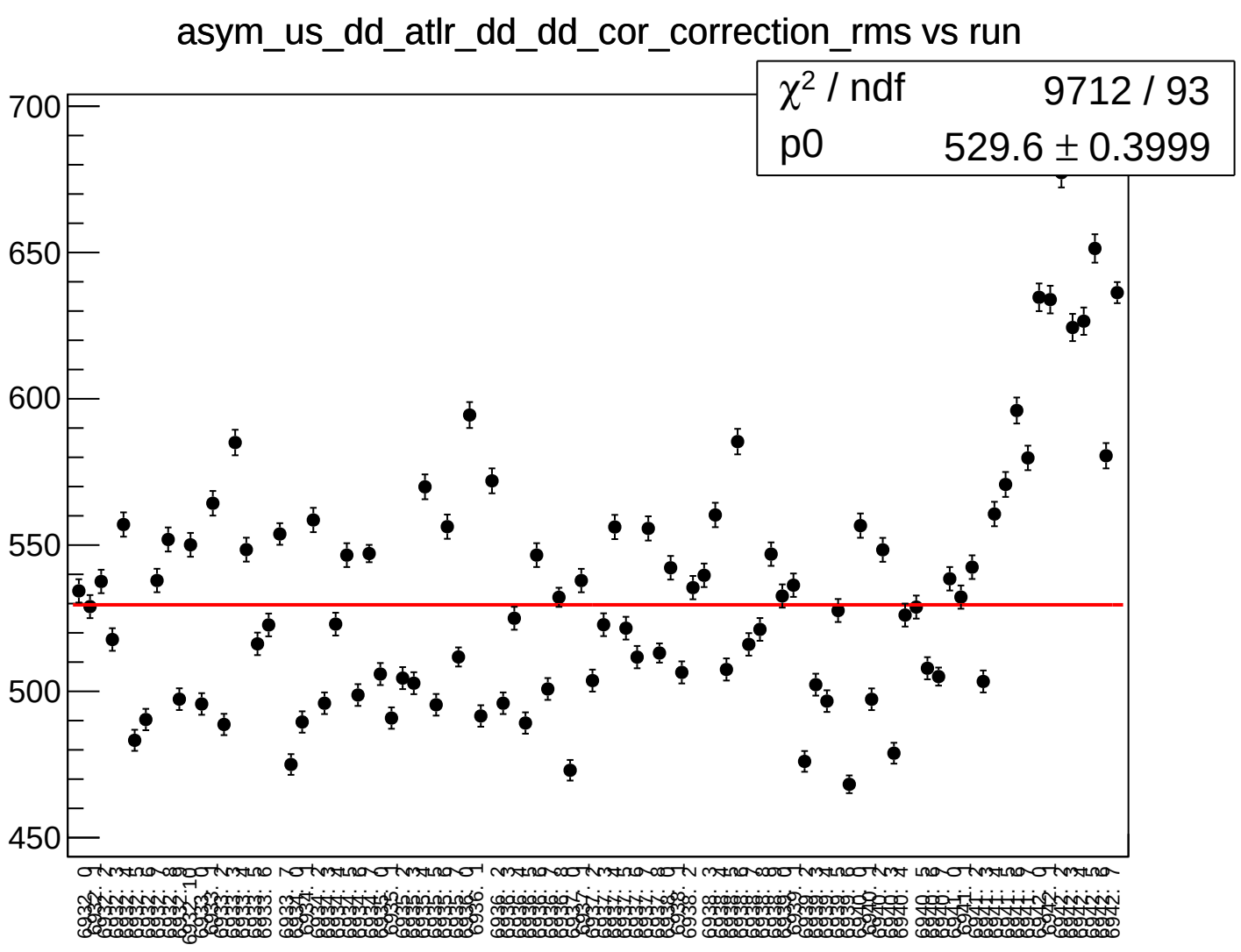

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −259.4 ± 1165
pull
Entries 94
Mean 606.5
Std Dev 0

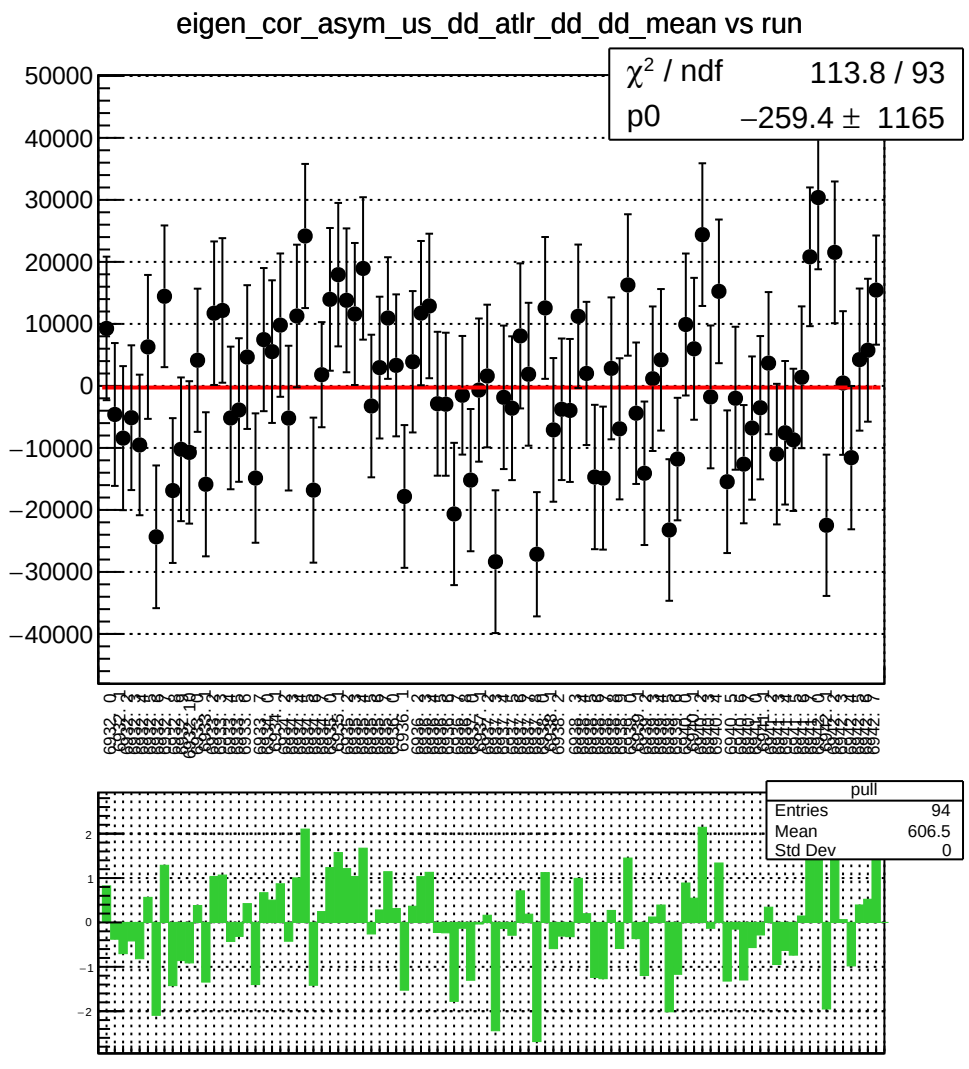

pull1D
Entries 94
Mean 0.001865
Std Dev 1.1

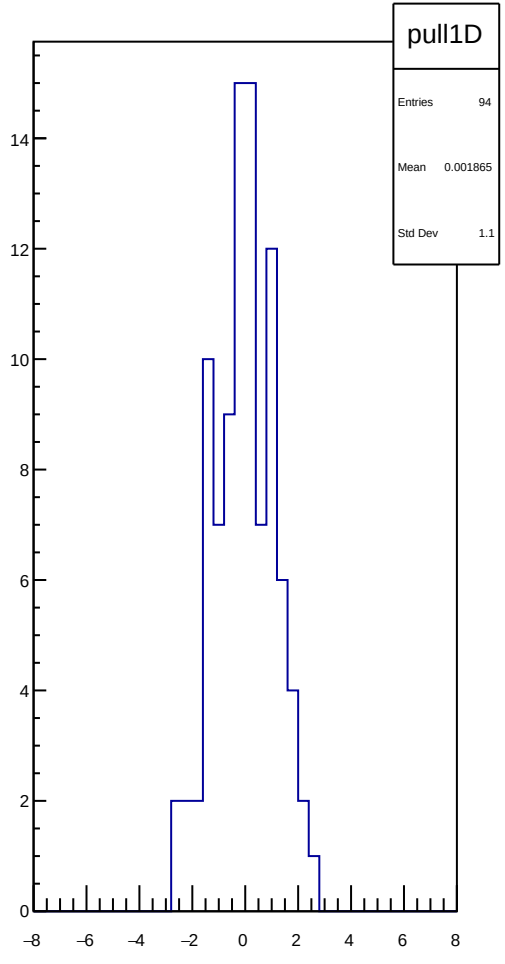

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 97.11 / 93
p0 1094 ± 0.824
1120
1110
1100
1090
1080
1070

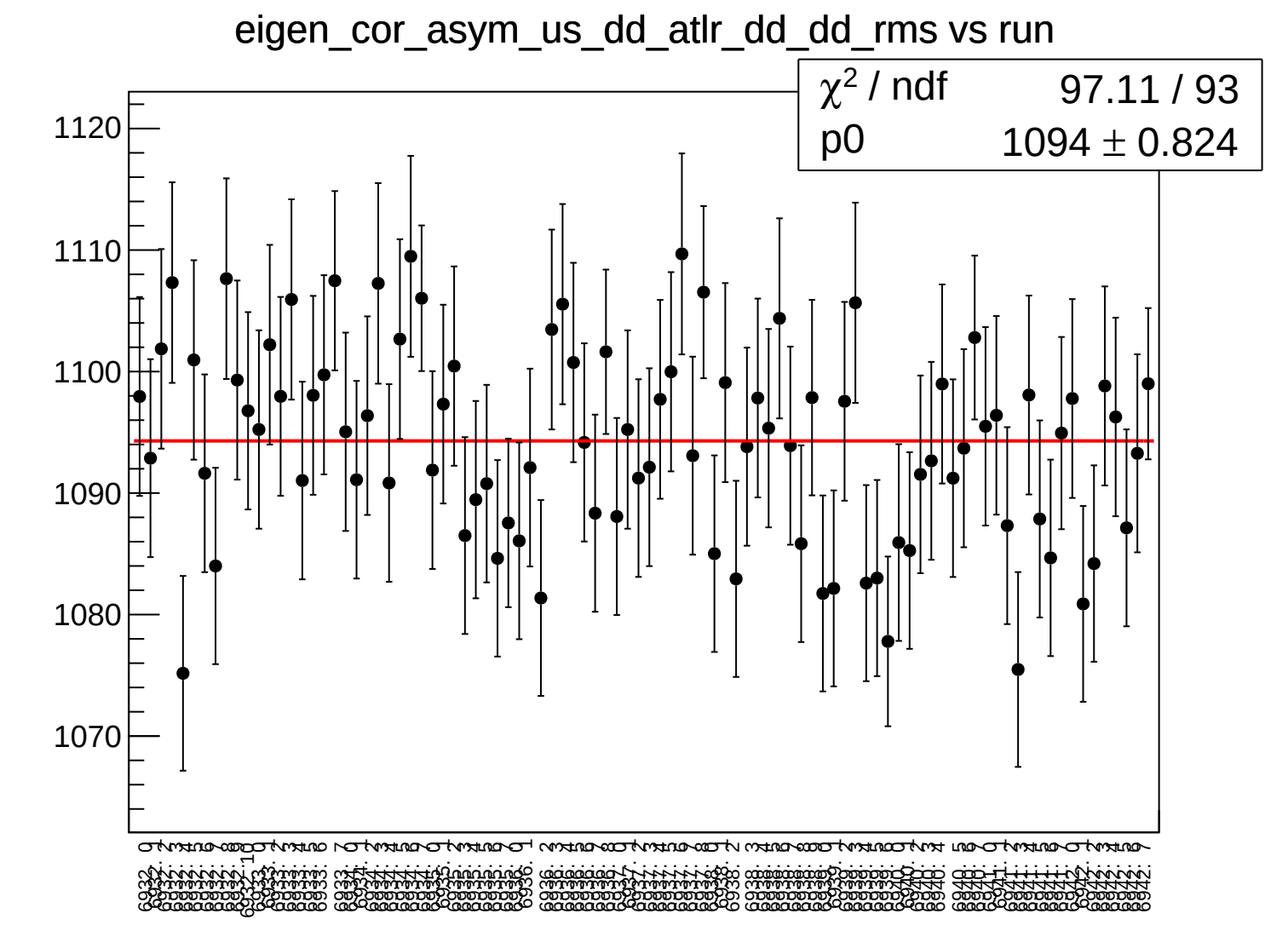

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 80.5 / 93
p0 −457.5 ± 565.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 263.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

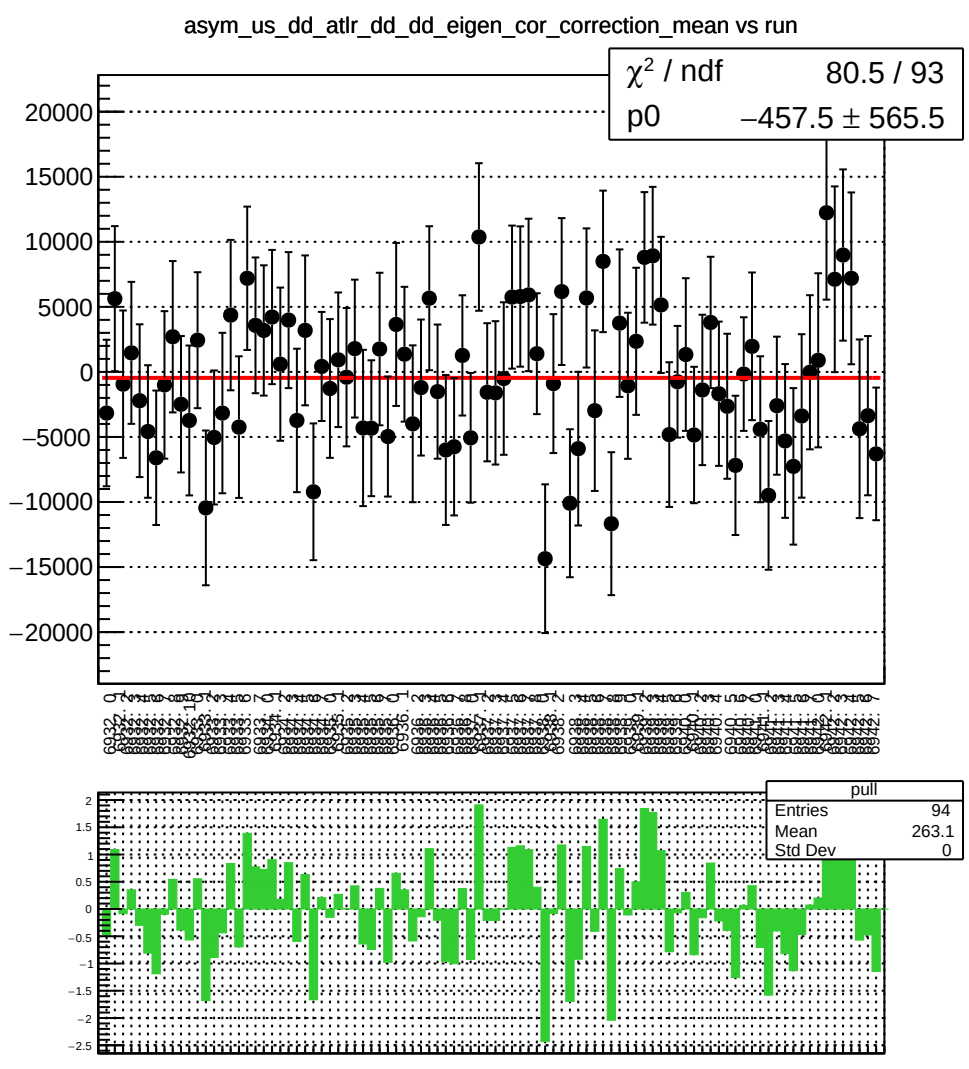

pull1D
Entries 94
Mean 0.003417
Std Dev 0.9254
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

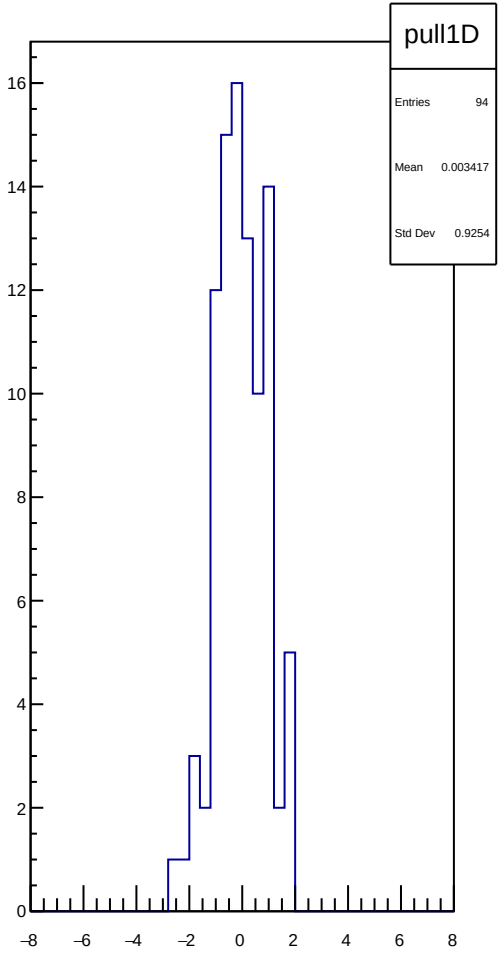

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 9712 / 93
p0 529.6 ± 0.3999
700
650
600
550
500
450

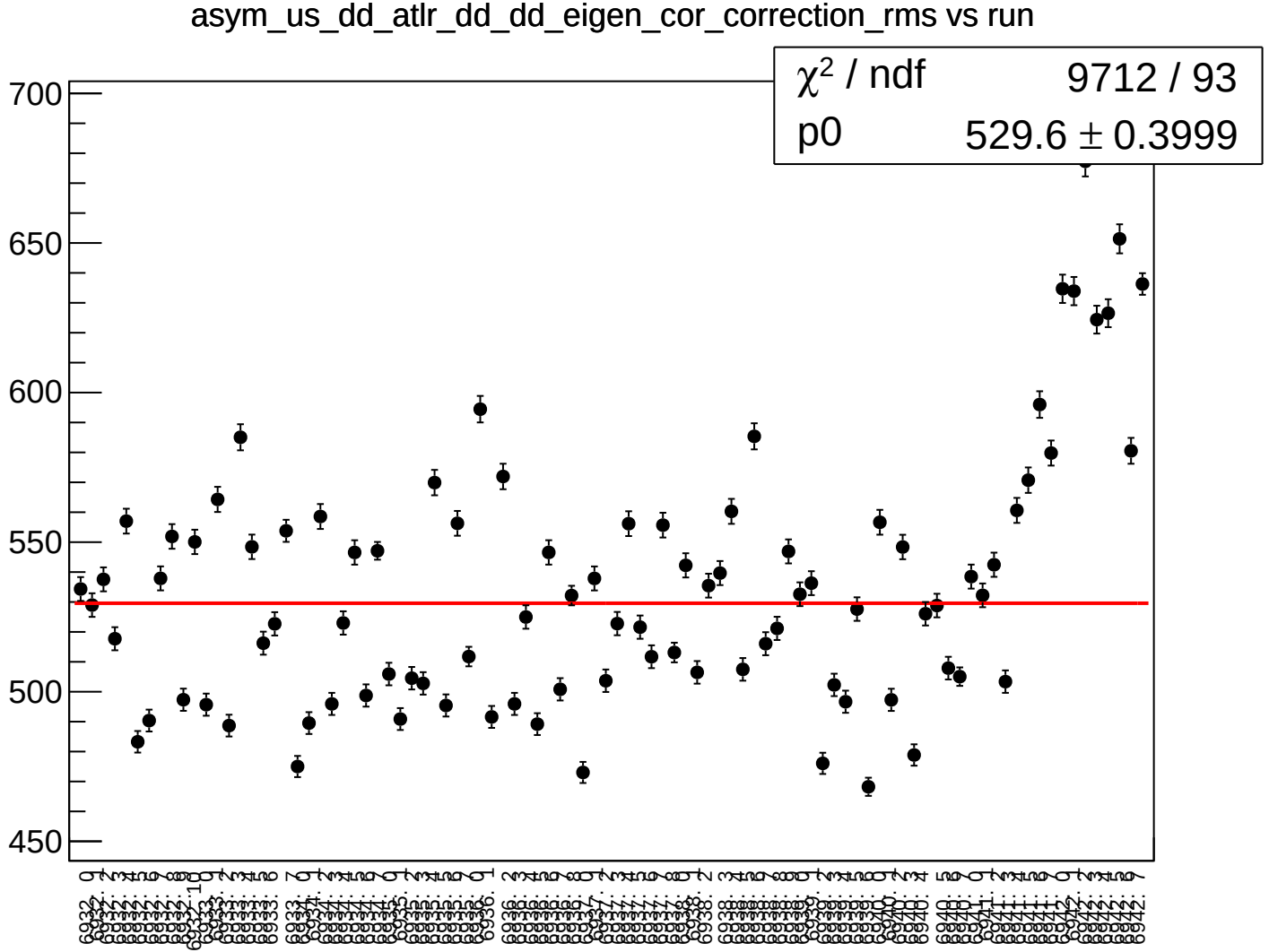

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −259.4 ± 1165
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 606.5
Std Dev 0
2
1
0
−1
−2

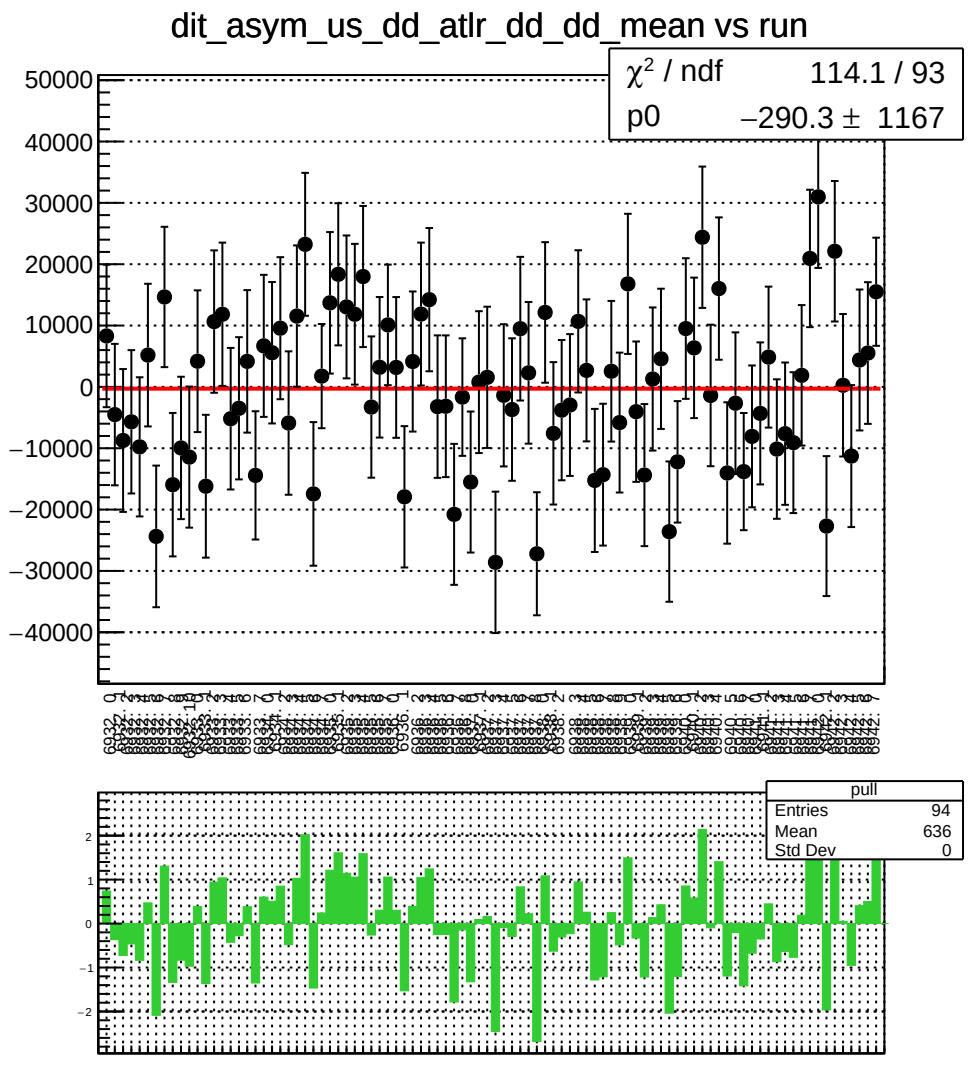

pull1D
Entries 94
Mean 0.001865
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

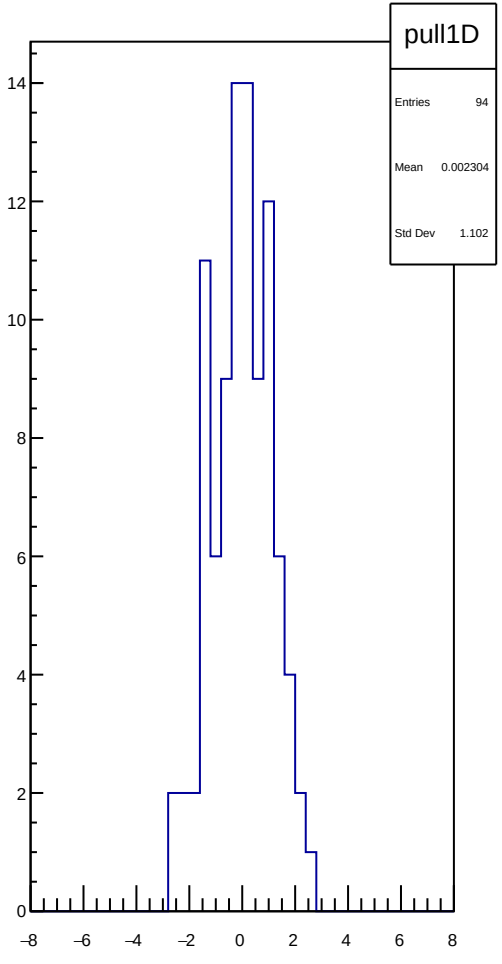

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 97.11 / 93
p0 1094 ± 0.824
1120
1110
1100
1090
1080
1070

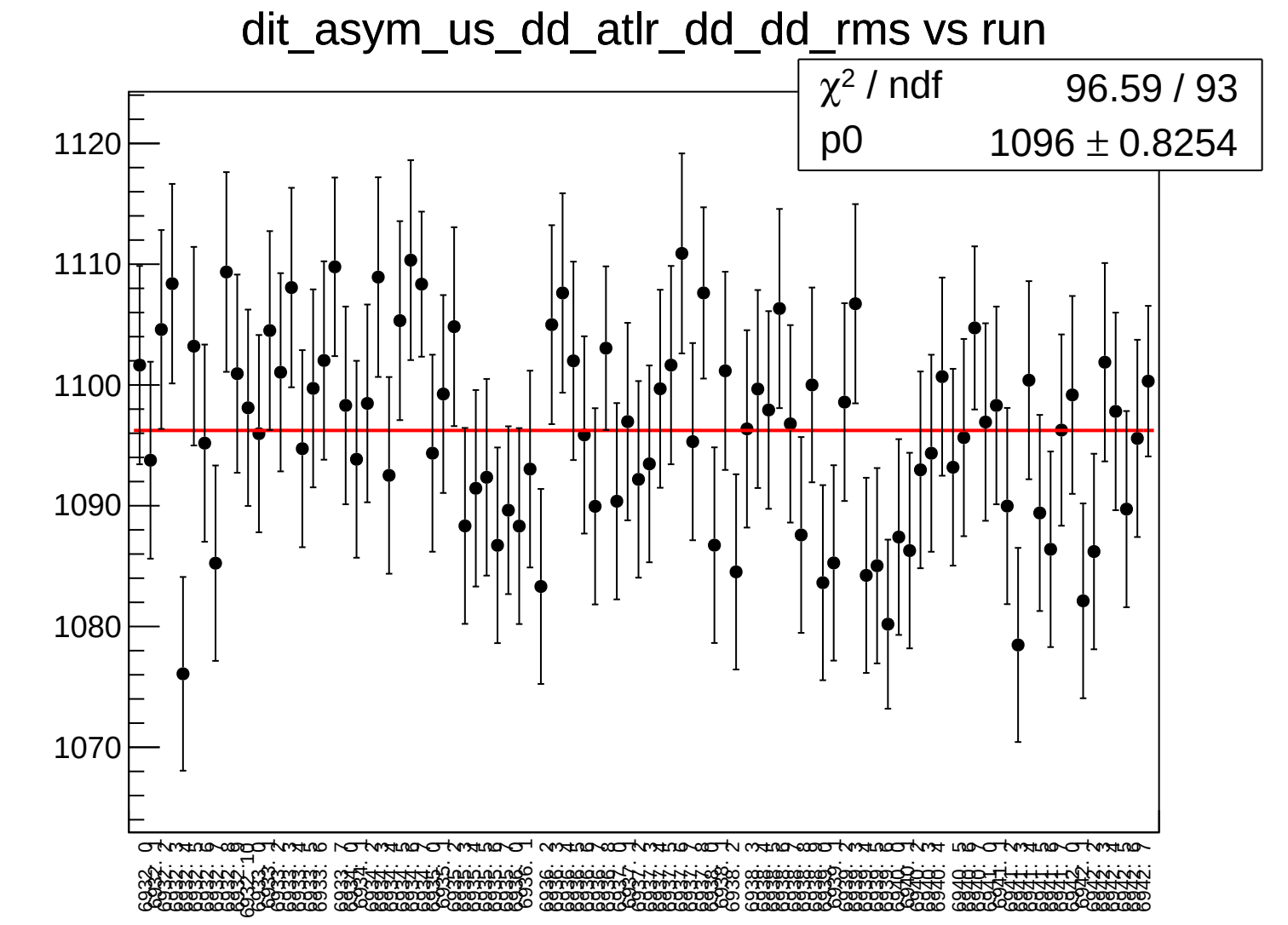

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.5 / 93
p0 −457.5 ± 565.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 263.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

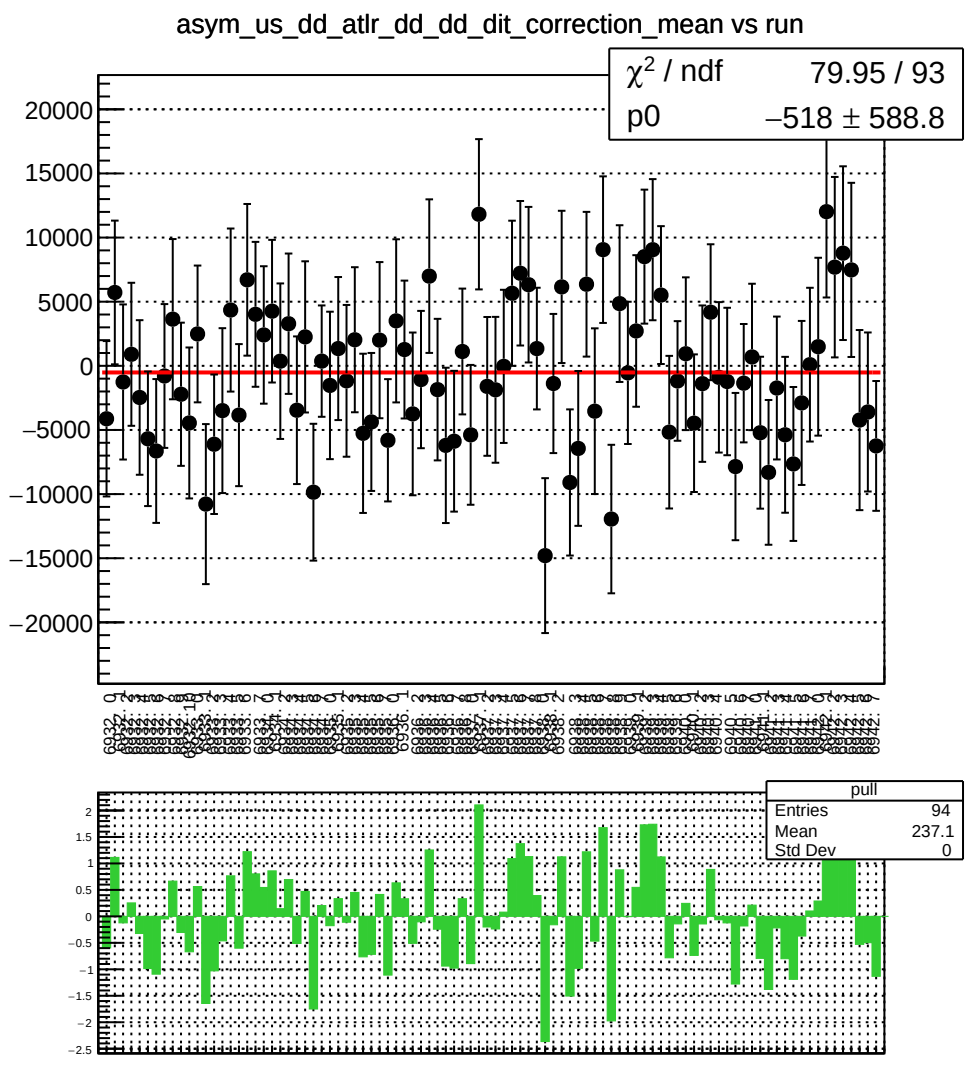

pull1D
Entries 94
Mean 0.003417
Std Dev 0.9254
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

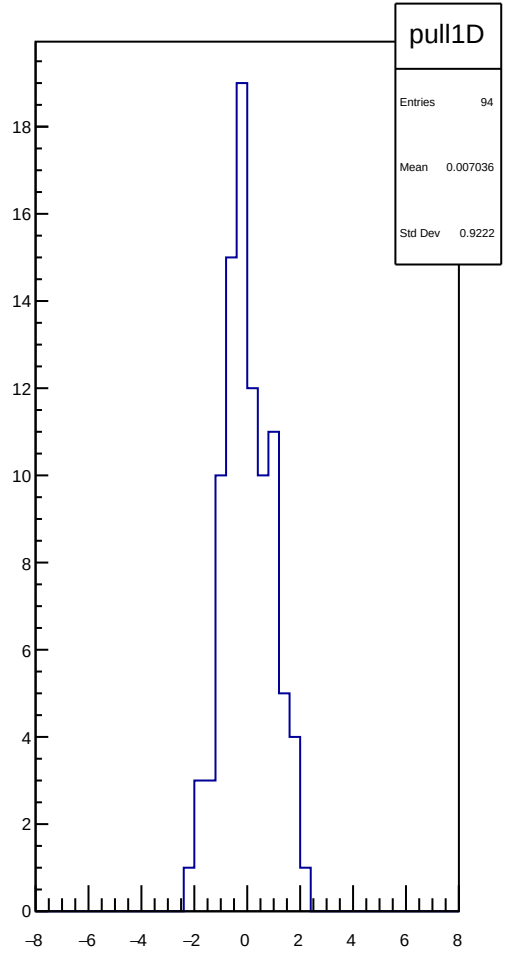

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9712 / 93
p0 529.6 ± 0.3999
700
650
600
550
500
450

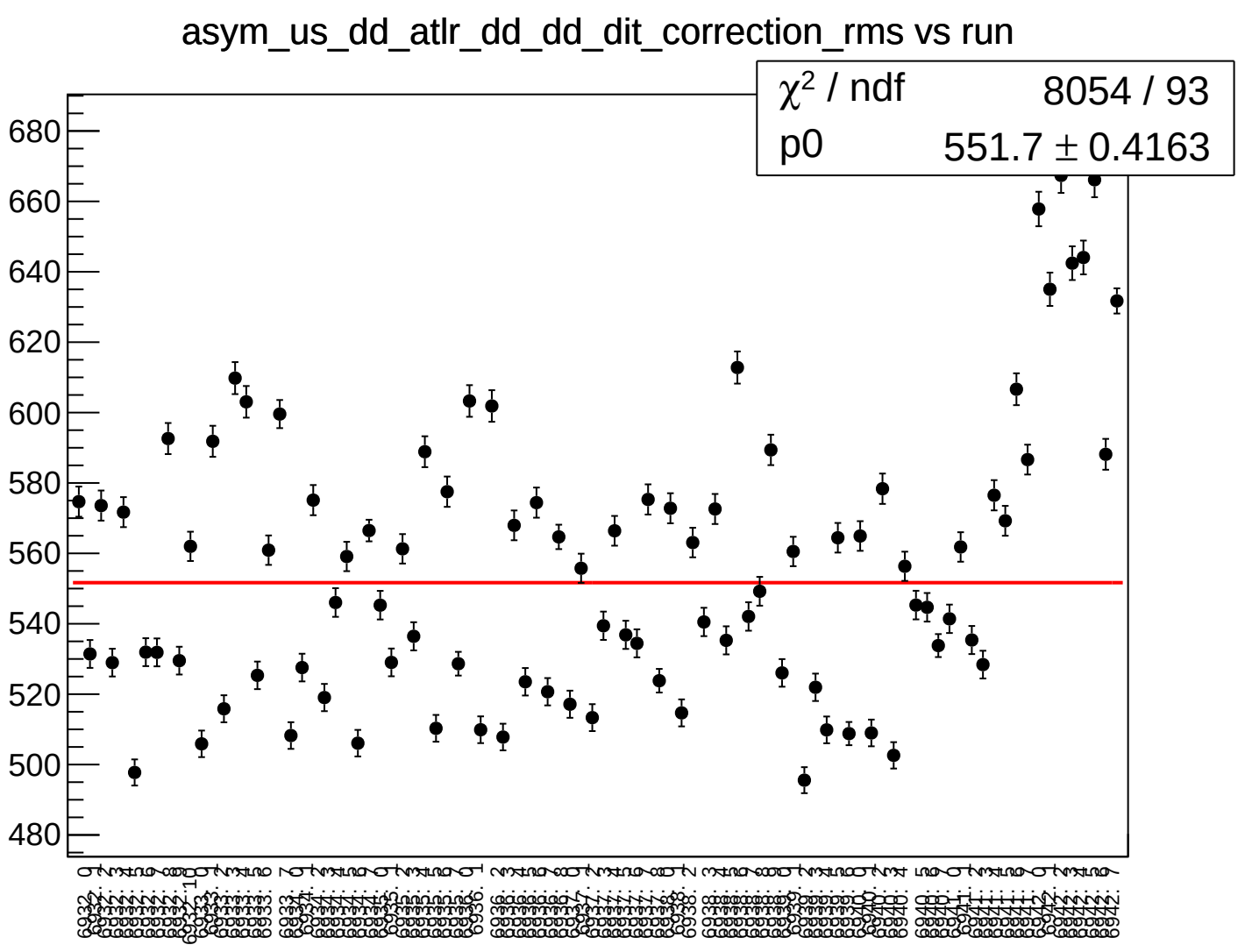

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 114.1 / 93
p0 −290.3 ± 1167
pull
Entries 94
Mean 636
Std Dev 0

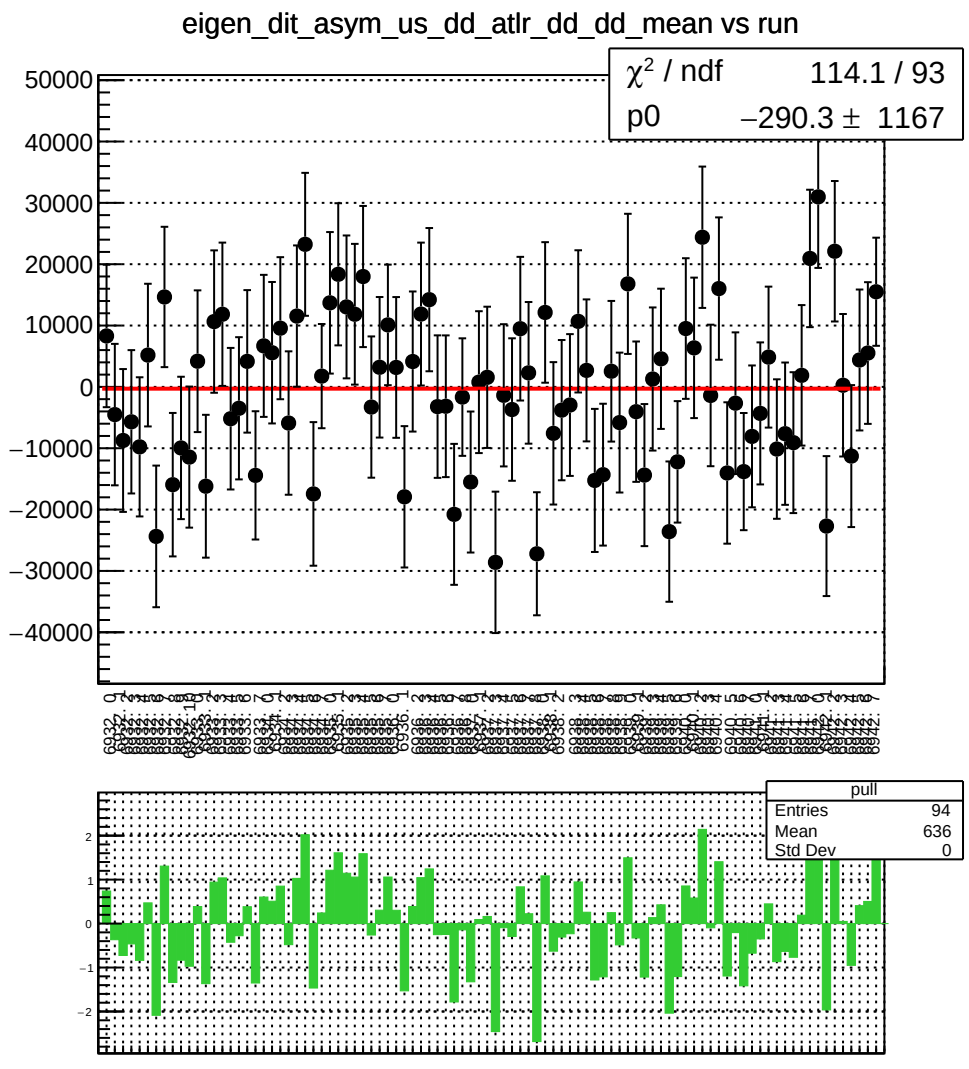

pull1D
Entries 94
Mean 0.002304
Std Dev 1.102

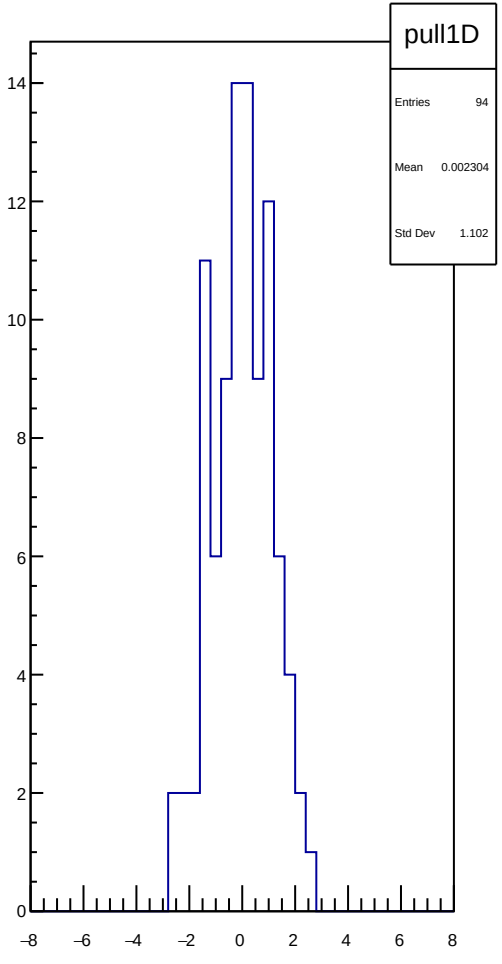

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 96.59 / 93
p0 1096 ± 0.8254
1120
1110
1100
1090
1080
1070

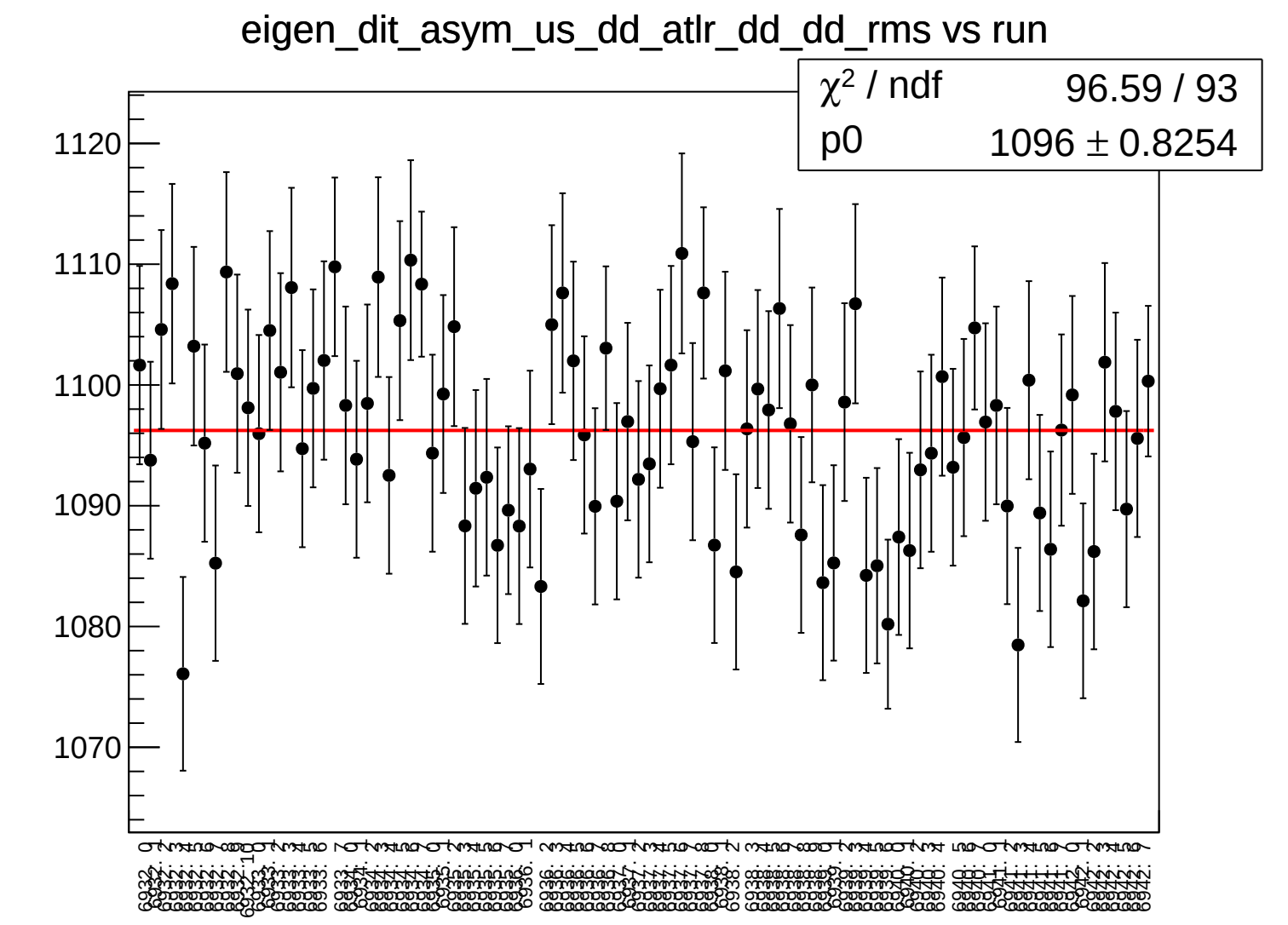

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.95 / 93
p0 −518 ± 588.8
pull
Entries 94
Mean 237.1
Std Dev 0

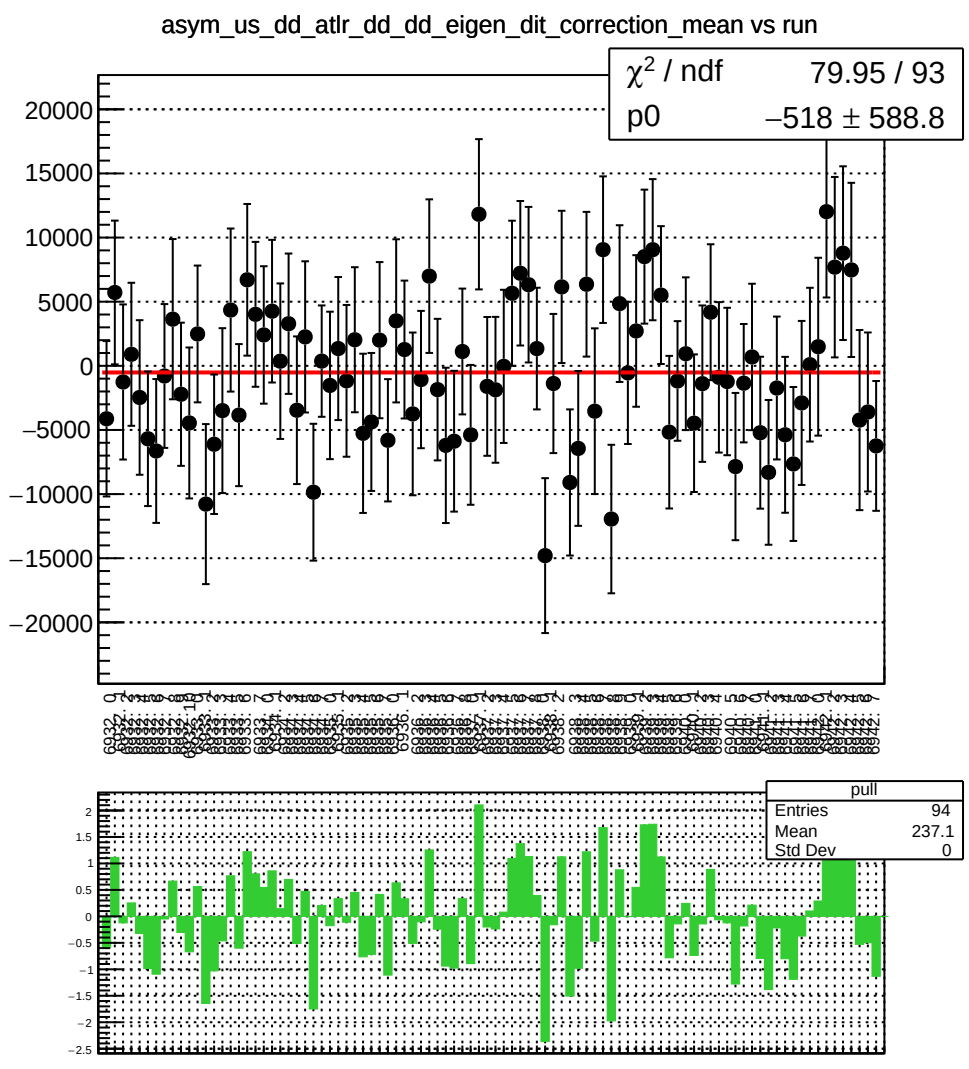

pull1D
Entries 94
Mean 0.007036
Std Dev 0.9222

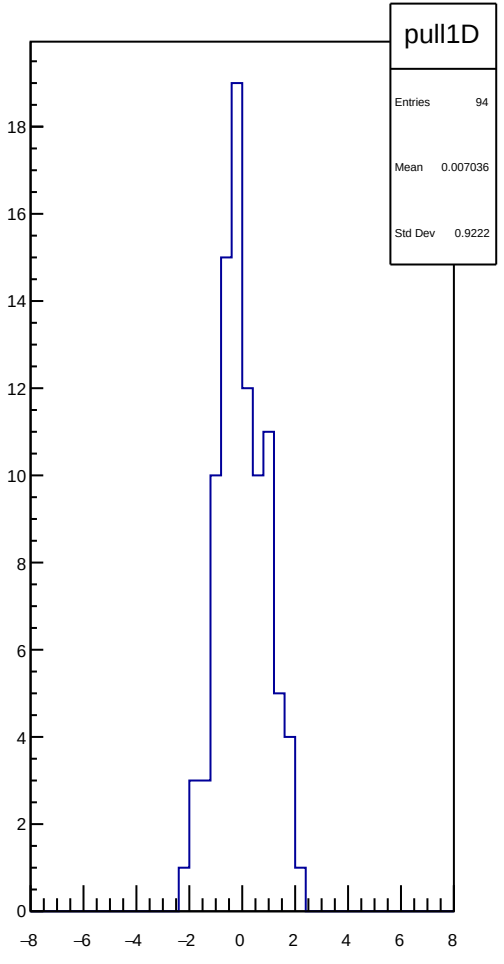

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 8054 / 93
p0 551.7 ± 0.4163
680
660
640
620
600
580
560
540
520
500
480

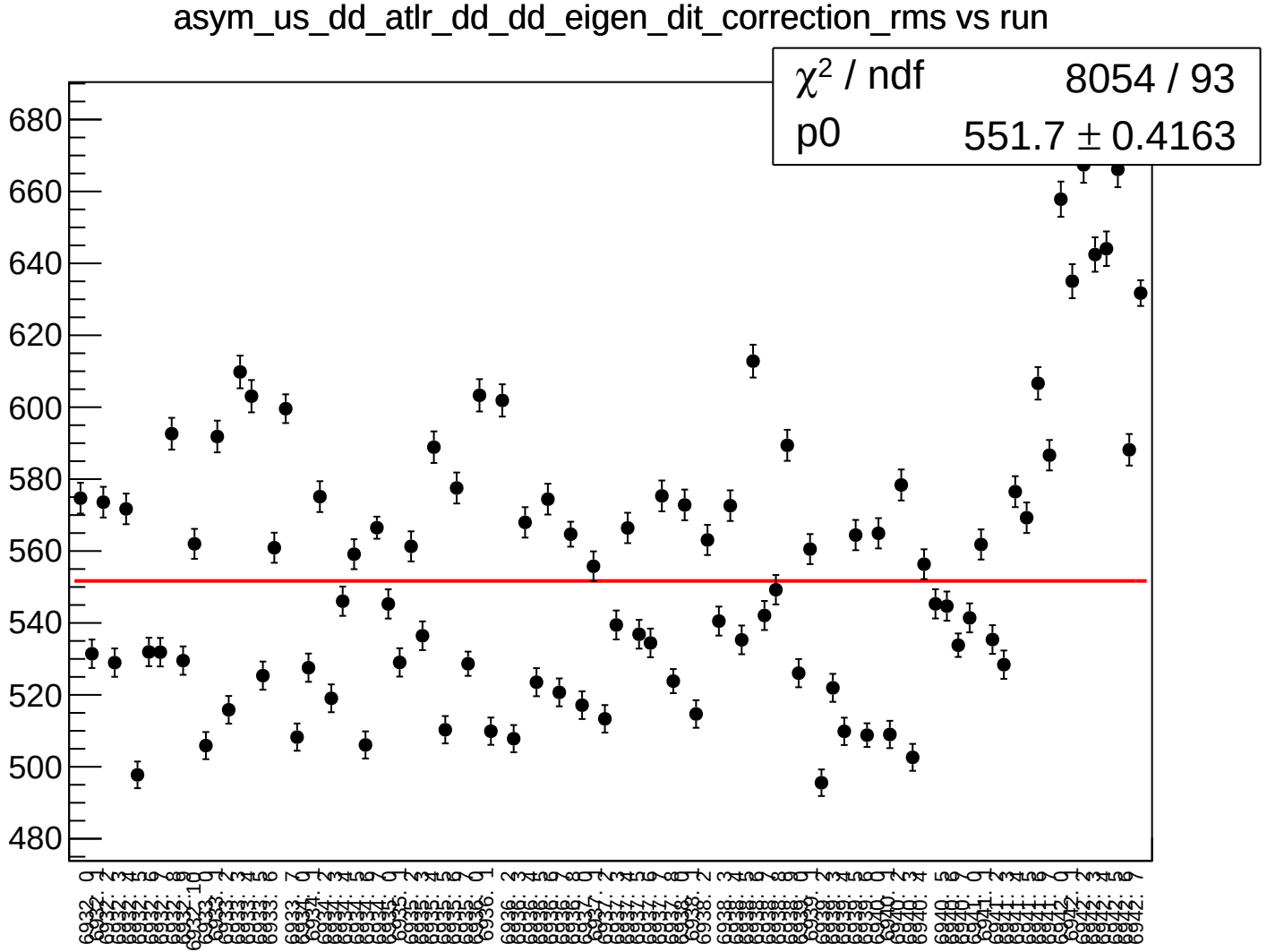

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 114.1 / 93
p0 −290.3 ± 1167
pull
Entries 94
Mean 636
Std Dev 0

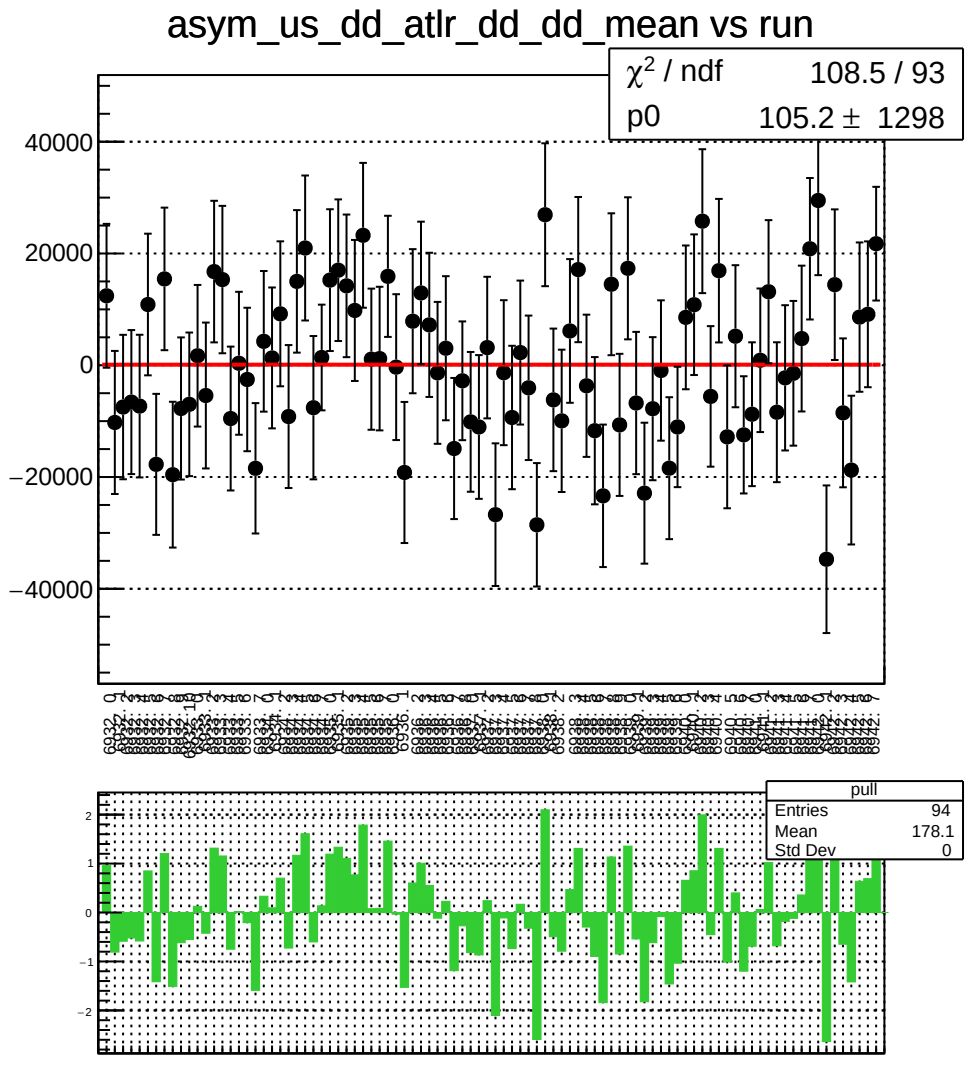

pull1D
Entries 94
Mean 0.002304
Std Dev 1.102

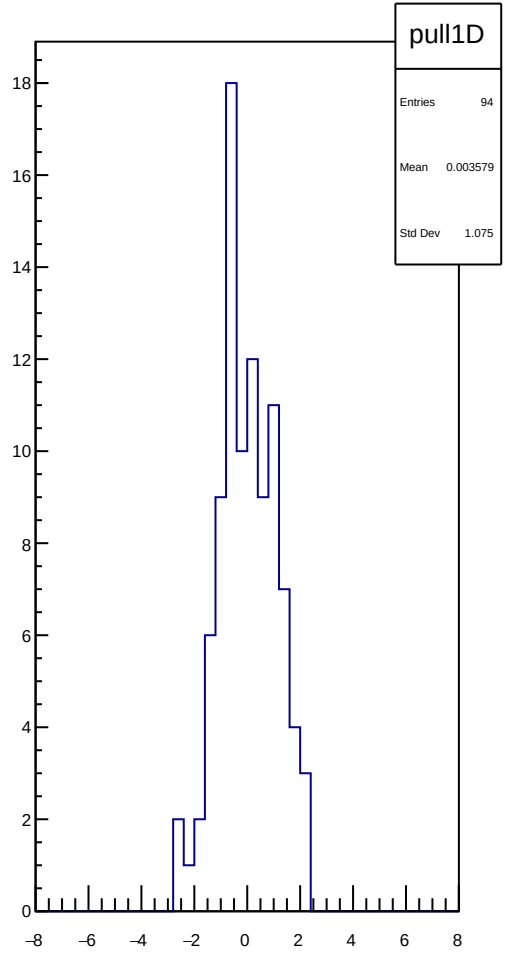

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 96.59 / 93
p0 1096 ± 0.8254
1120
1110
1100
1090
1080
1070

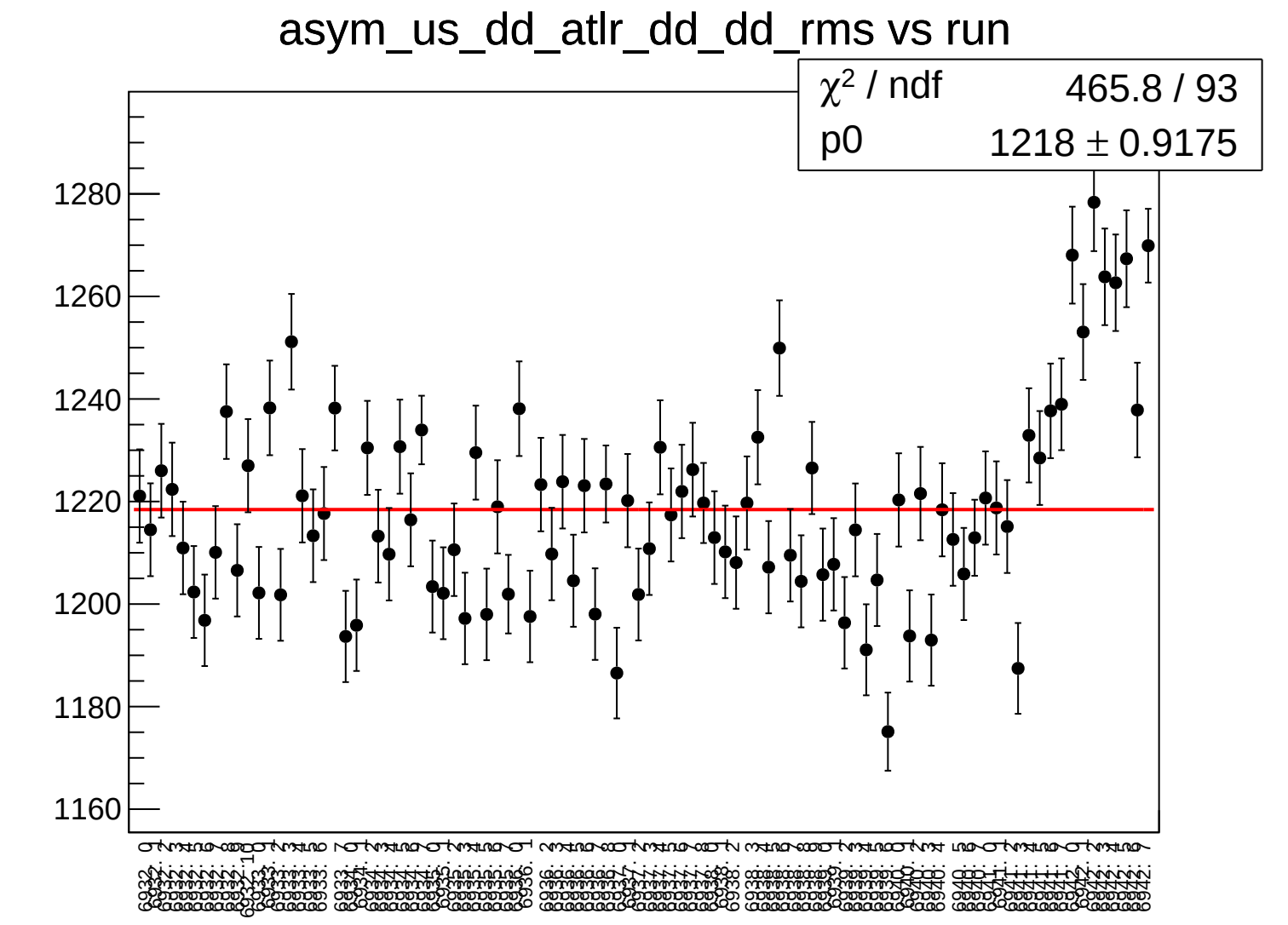

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.95 / 93
p0 −518 ± 588.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 237.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

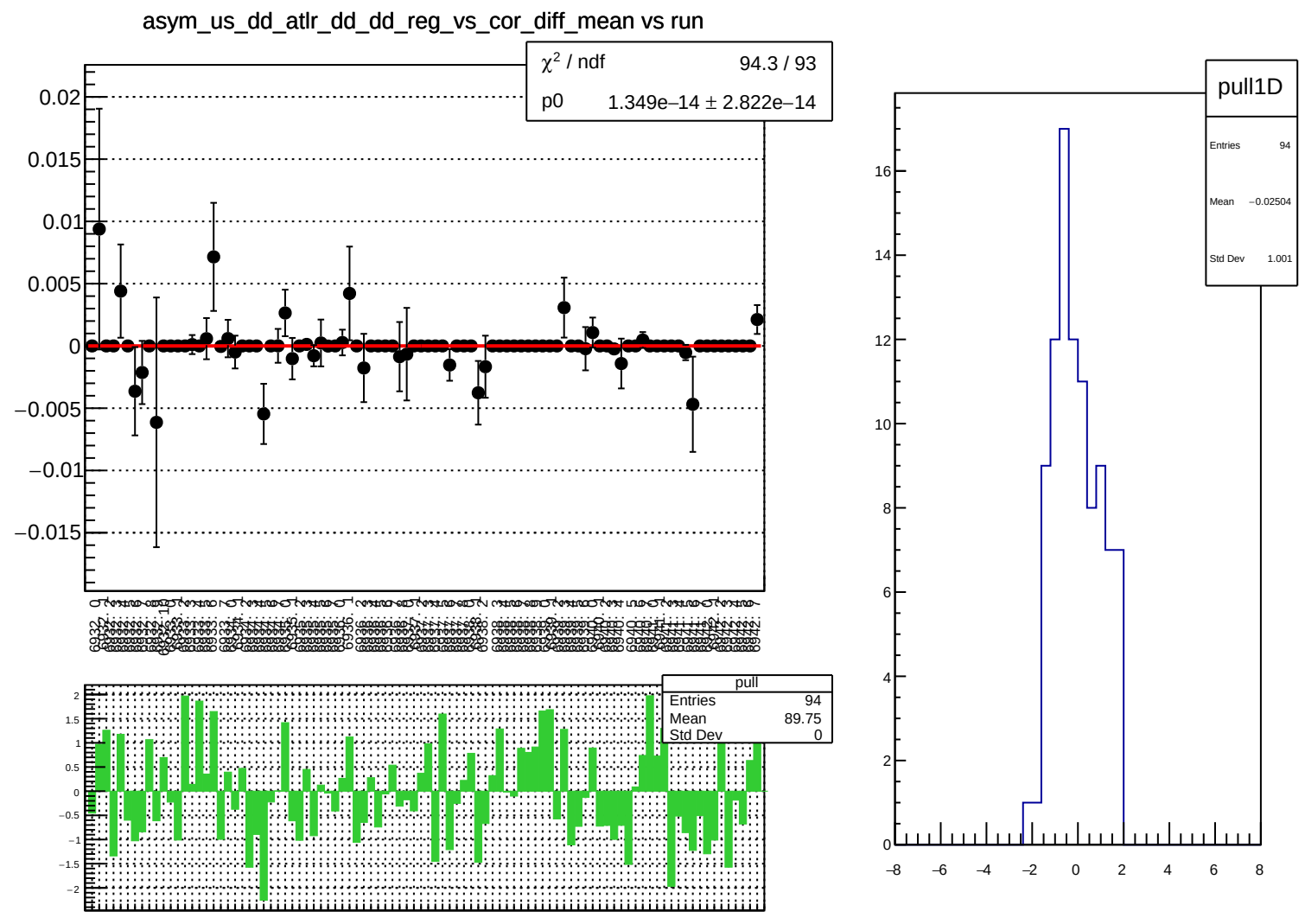

pull1D
Entries 94
Mean 0.007036
Std Dev 0.9222
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

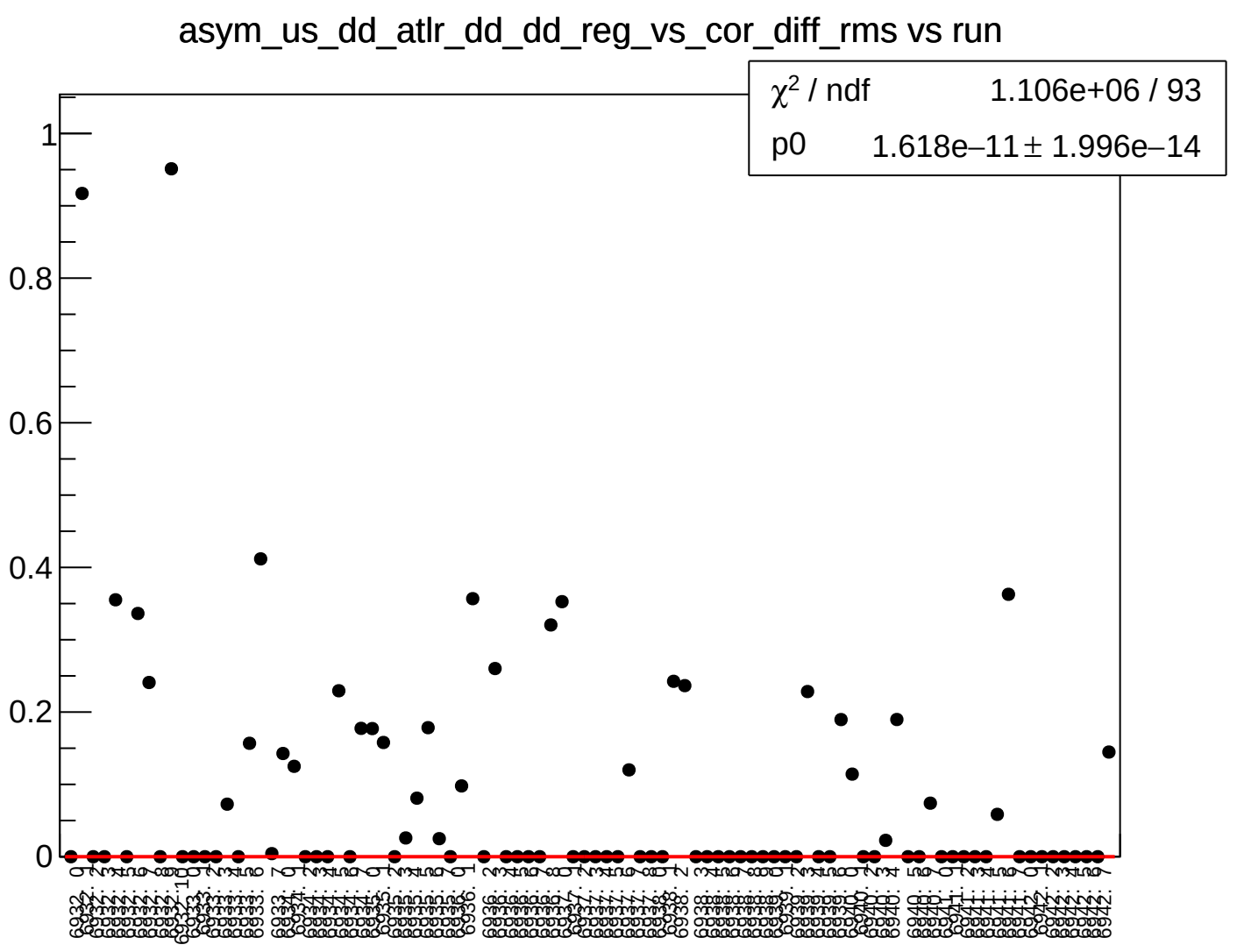

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8054 / 93
p0 551.7 ± 0.4163
680
660
640
620
600
580
560
540
520
500
480

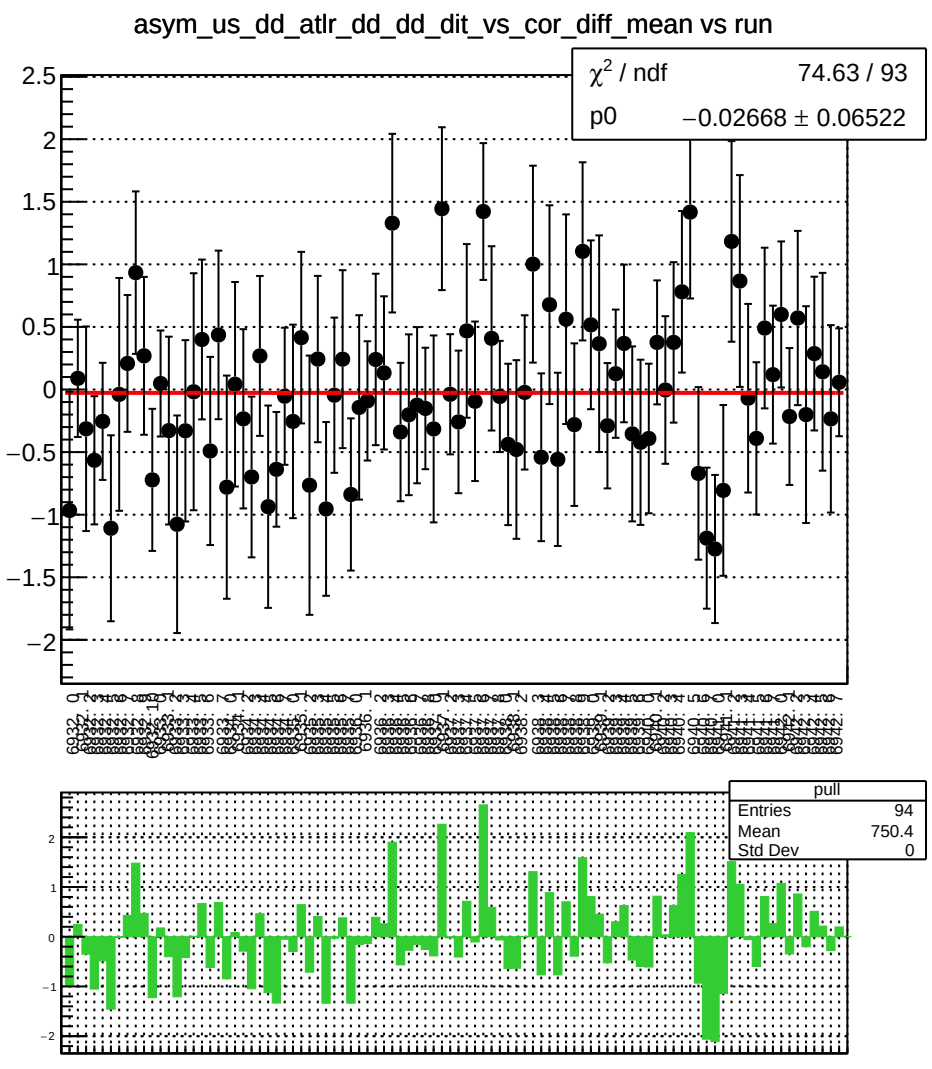

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 108.5 / 93
p0 105.2 ± 1298
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 178.1
Std Dev 0
2
1
0
−1
−2

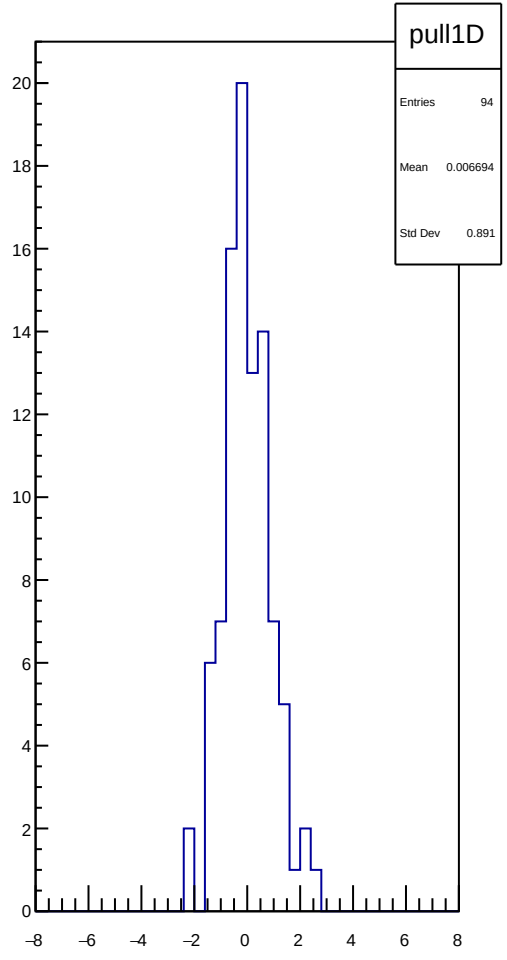

pull1D
Entries 94
Mean 0.003579
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

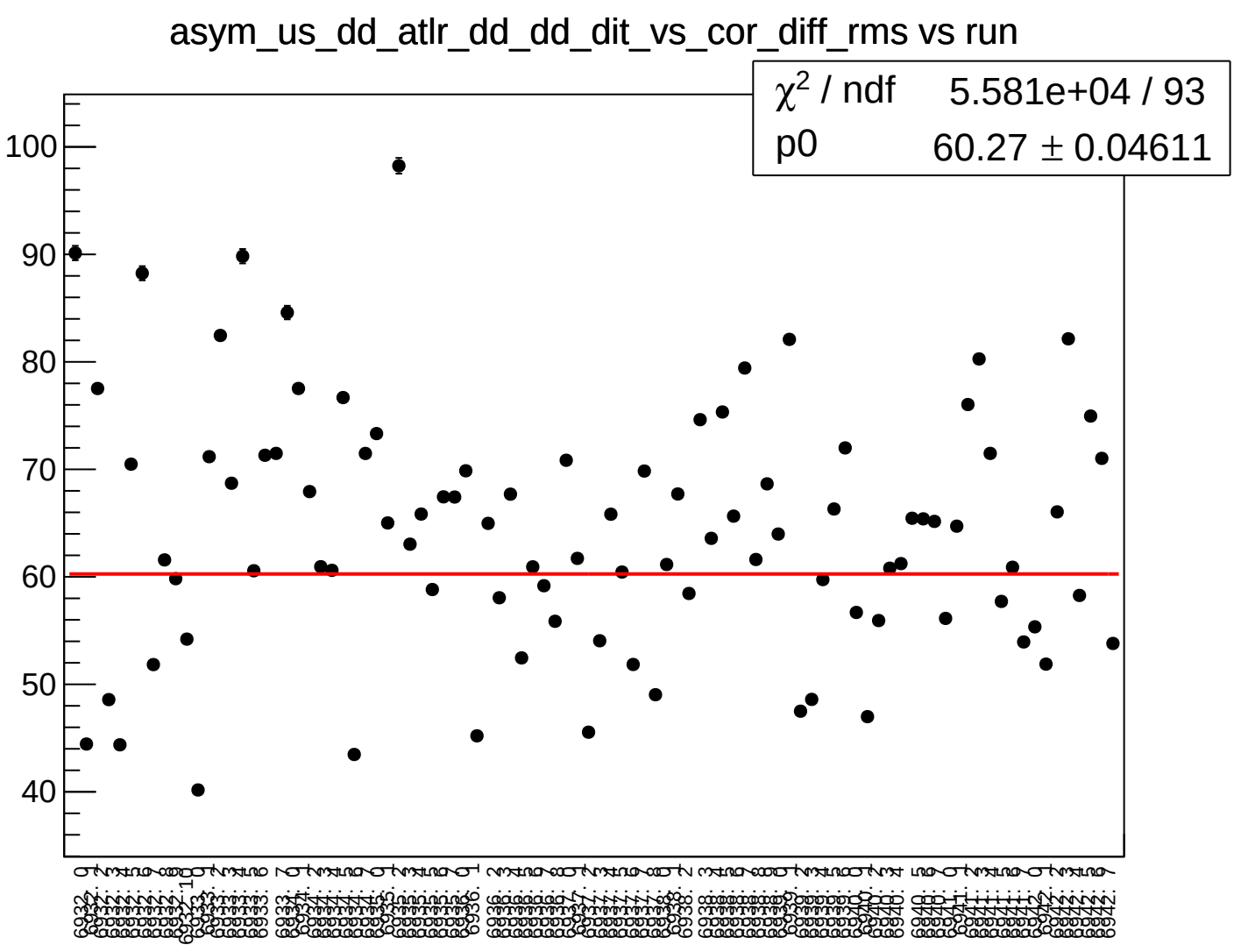

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 465.8 / 93
p0 1218 ± 0.9175
1280
1260
1240
1220
1200
1180
1160

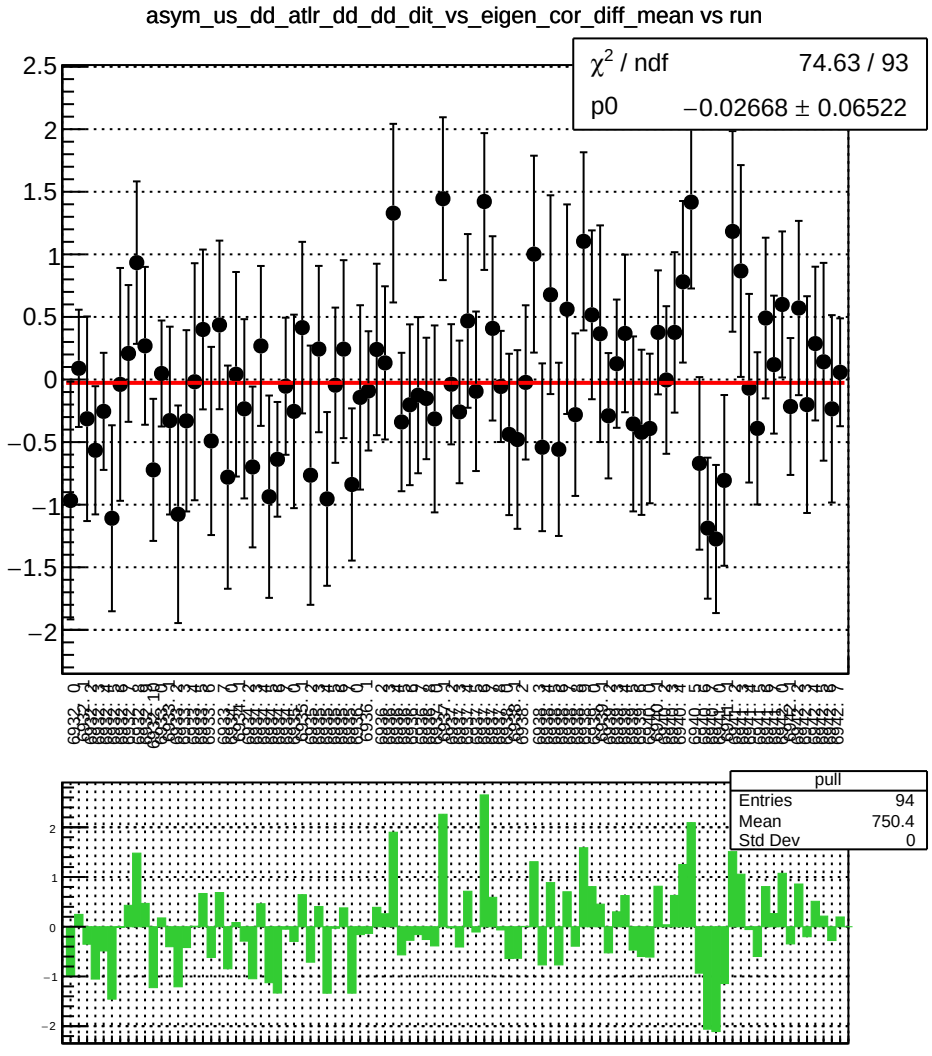

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 93
p0 1.349e−14 ± 2.822e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 89.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.02504
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

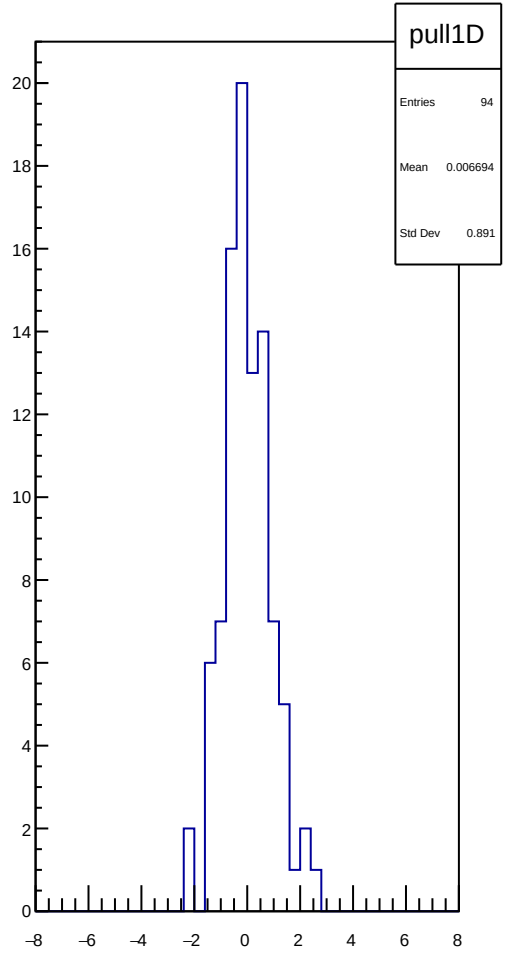

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 93
p0 1.618e−11 ± 1.996e−14
1
0.8
0.6
0.4
0.2
0

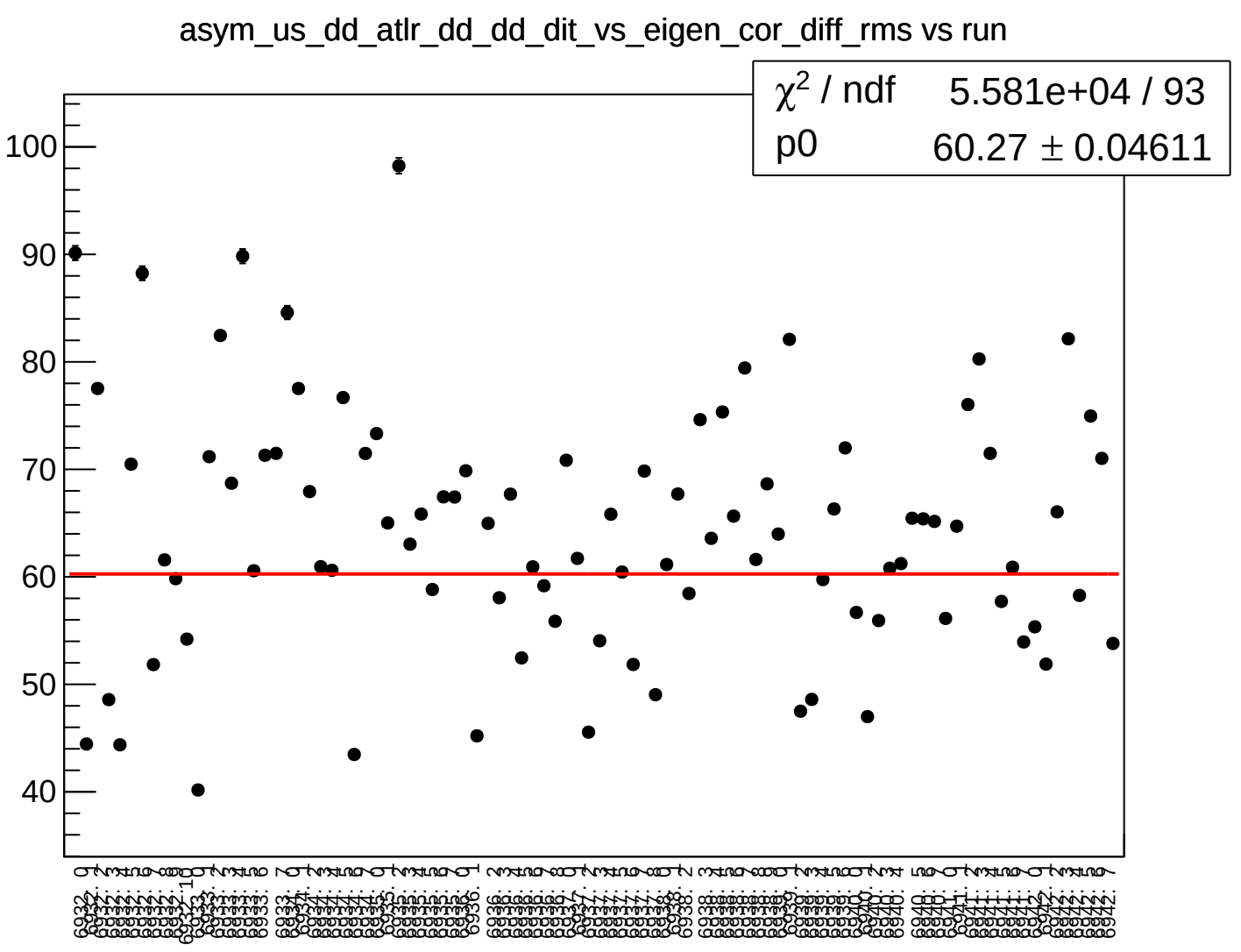

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.63 / 93
p0 −0.02668 ± 0.06522
pull
Entries 94
Mean 750.4
Std Dev 0

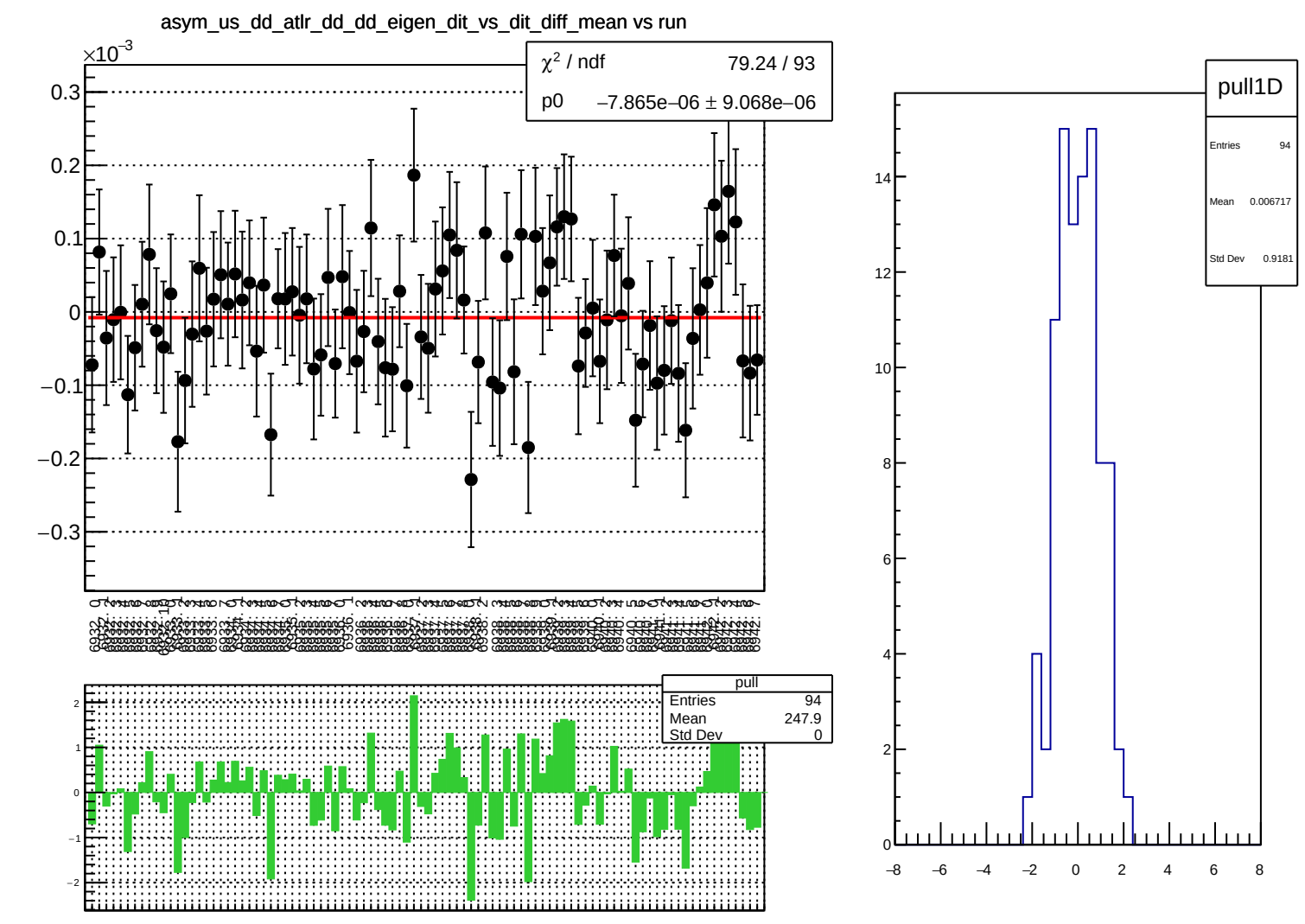

pull1D
Entries 94
Mean 0.006694
Std Dev 0.891

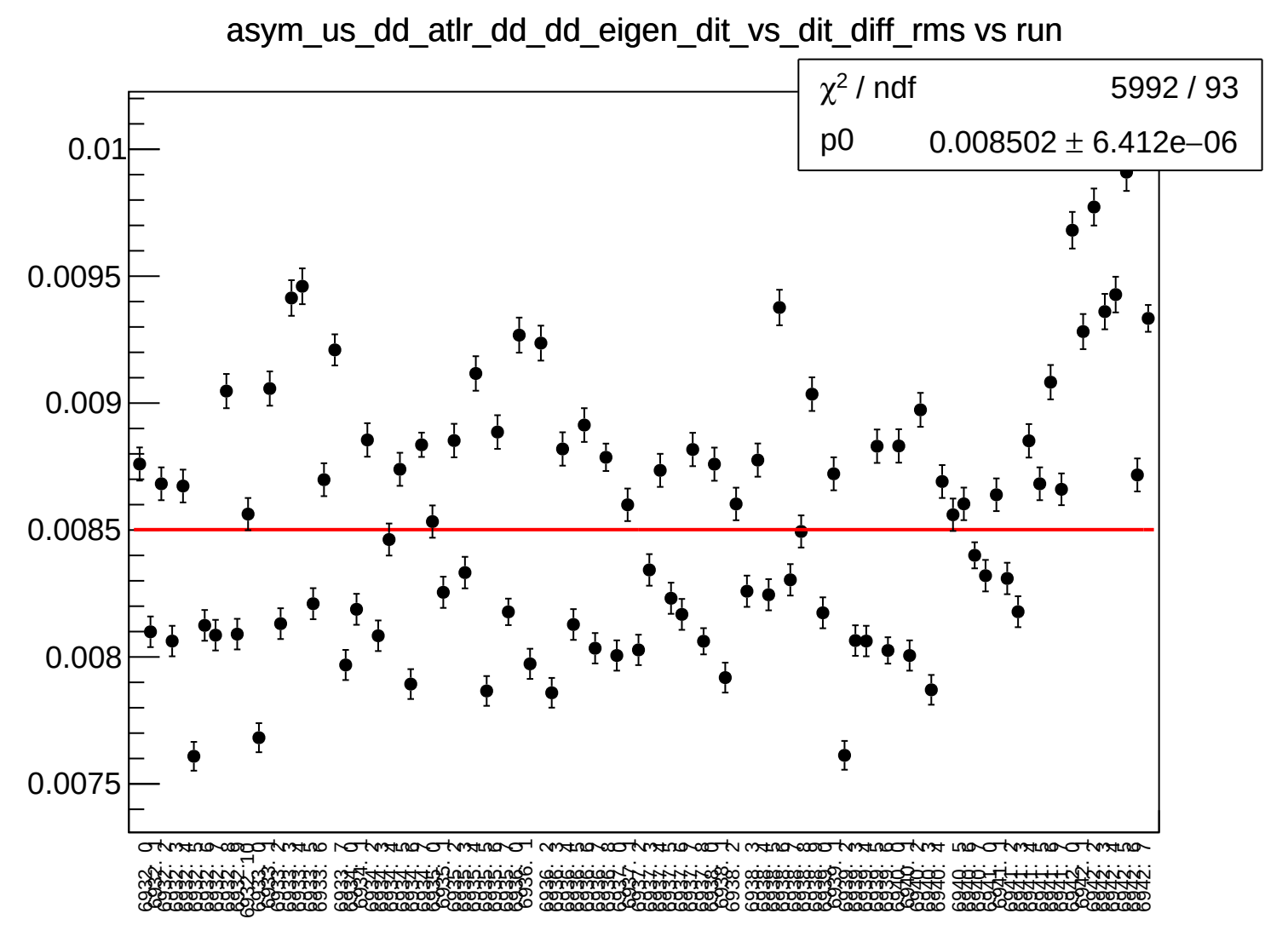

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.581e+04 / 93
p0 60.27 ± 0.04611
100
90
80
70
60
50
40

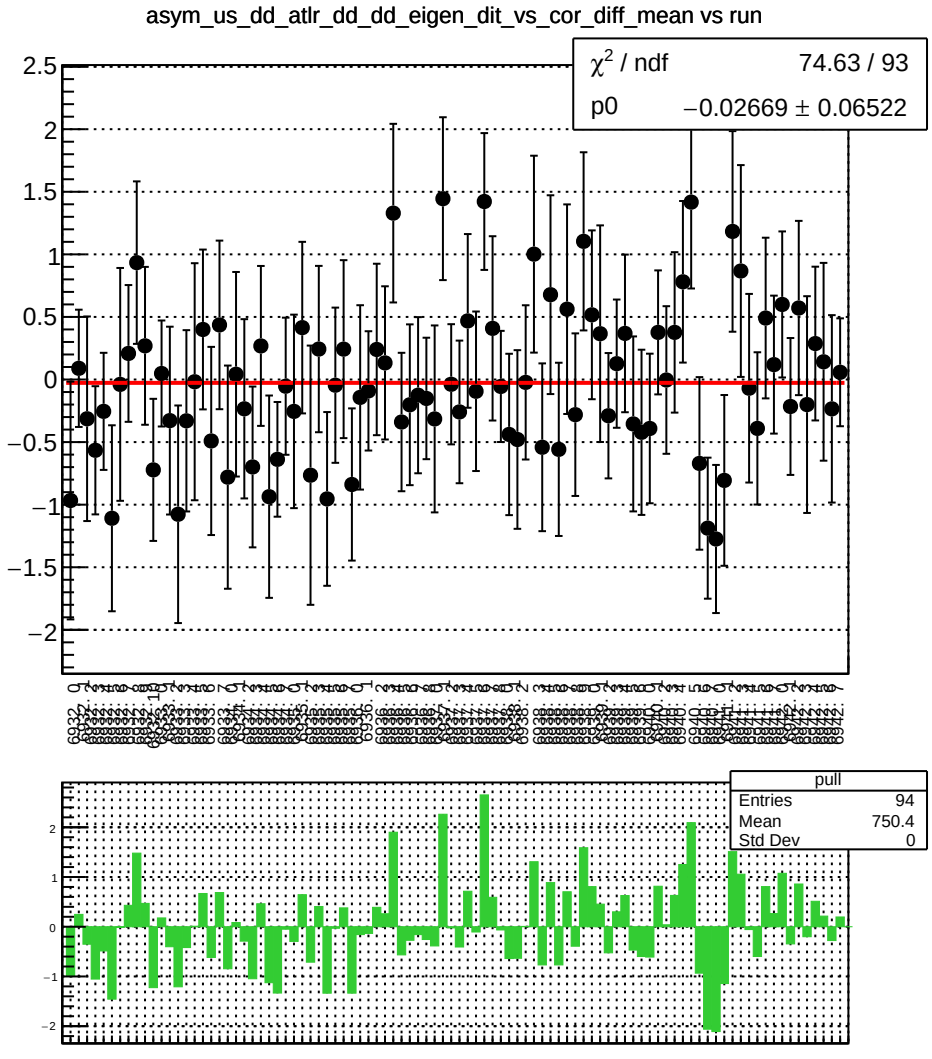

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.63 / 93
p0 −0.02668 ± 0.06522
pull
Entries 94
Mean 750.4
Std Dev 0

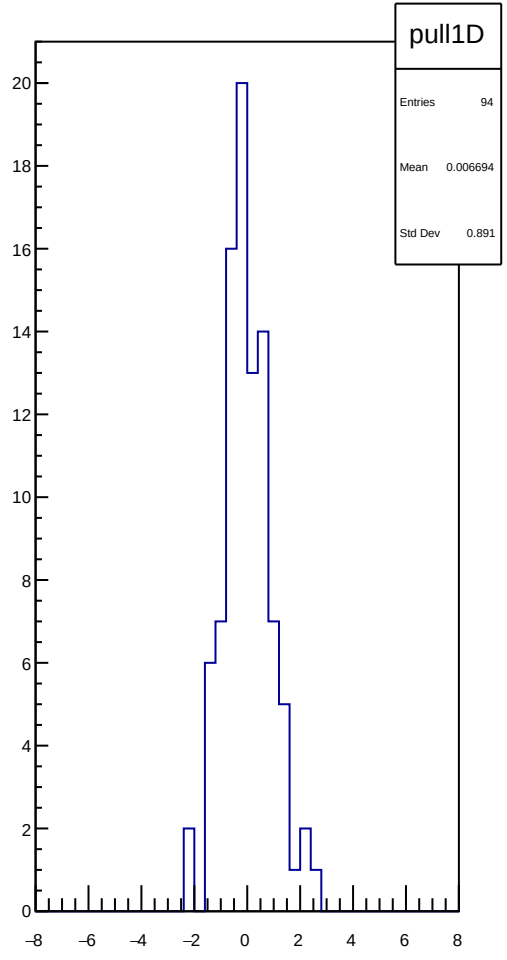

pull1D
Entries 94
Mean 0.006694
Std Dev 0.891

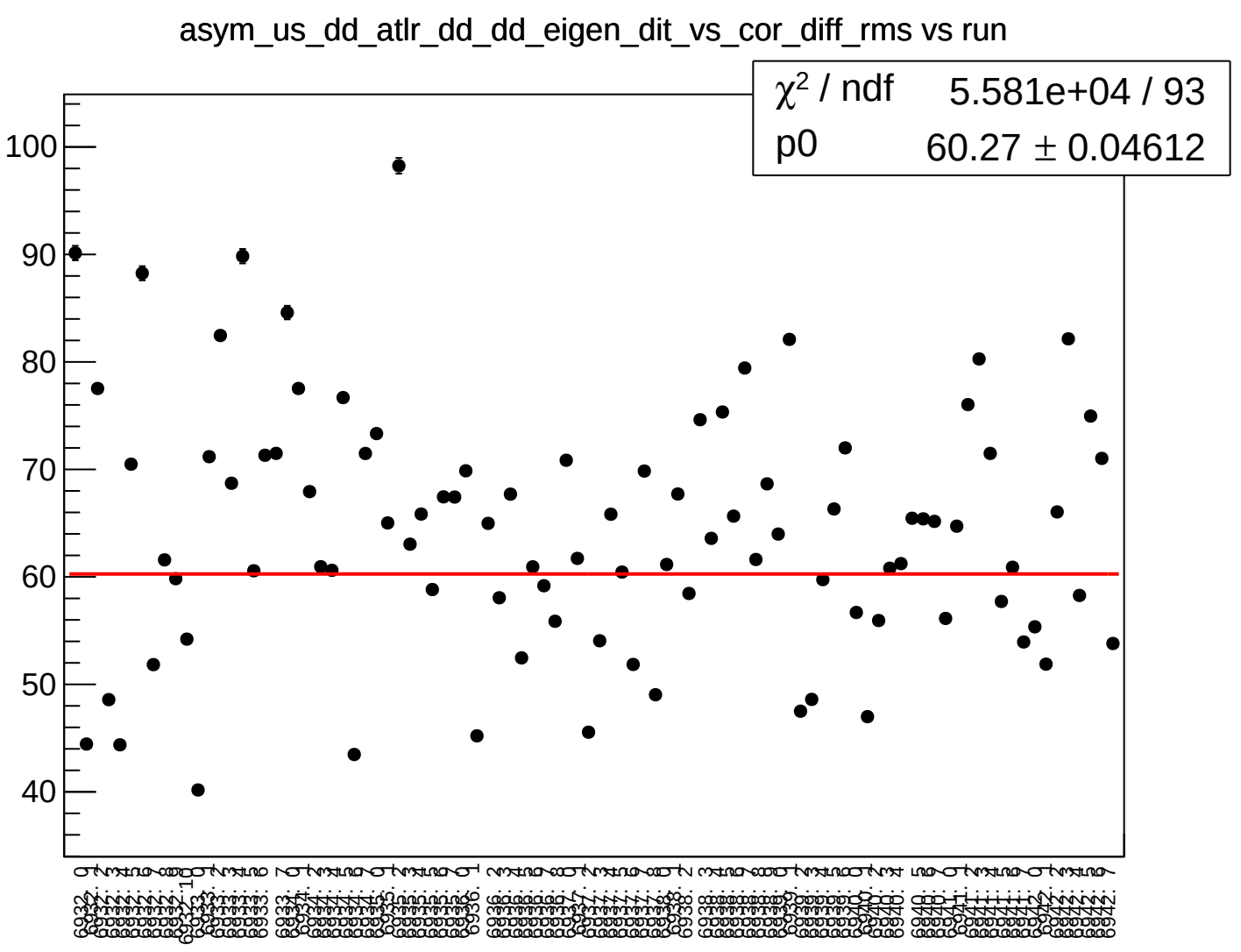

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.581e+04 / 93
p0 60.27 ± 0.04611
100
90
80
70
60
50
40

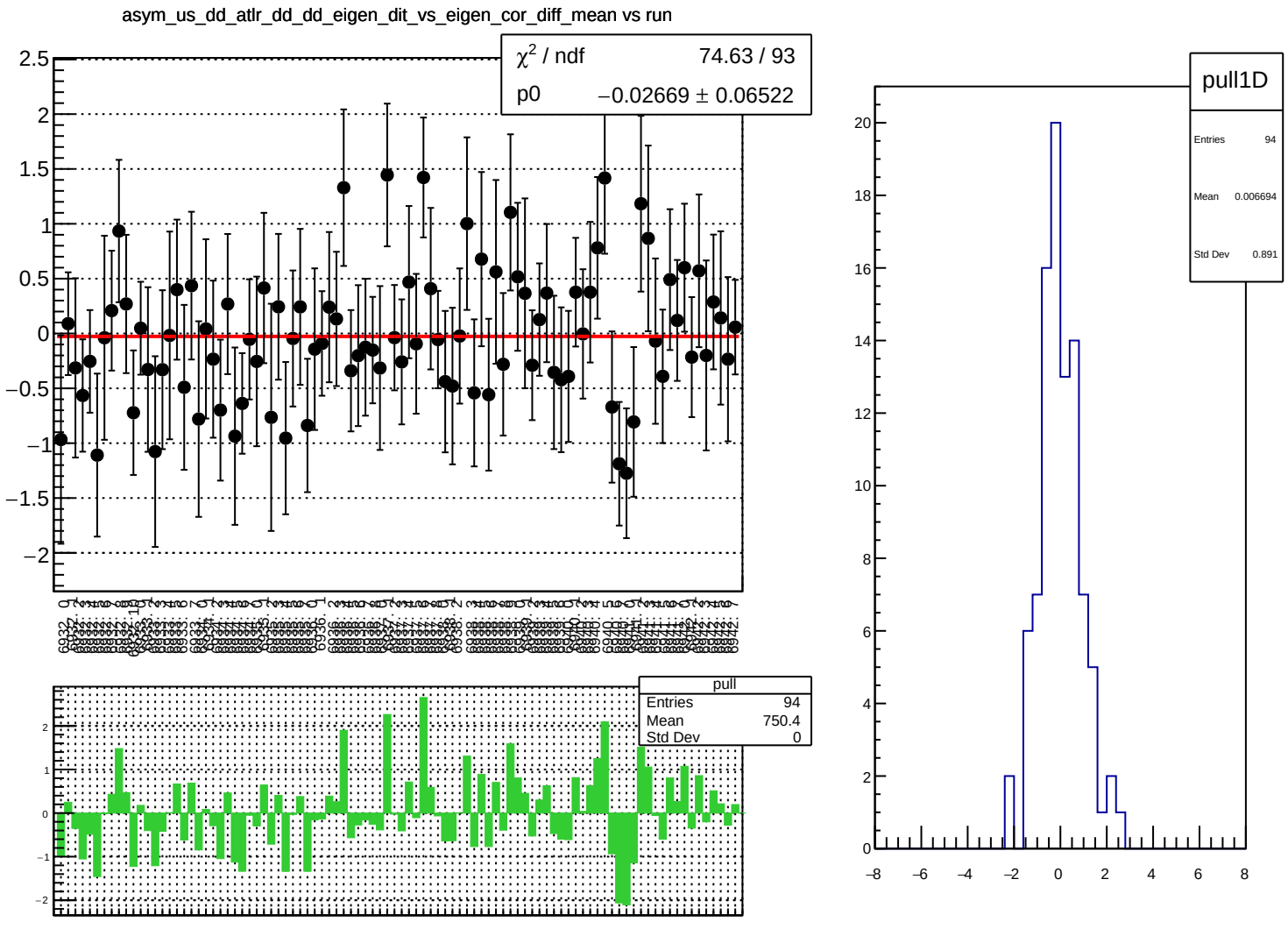

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.24 / 93
p0 −7.865e−06 ± 9.068e−06
pull
Entries 94
Mean 247.9
Std Dev 0
pull1D
Entries 94
Mean 0.006717
Std Dev 0.9181

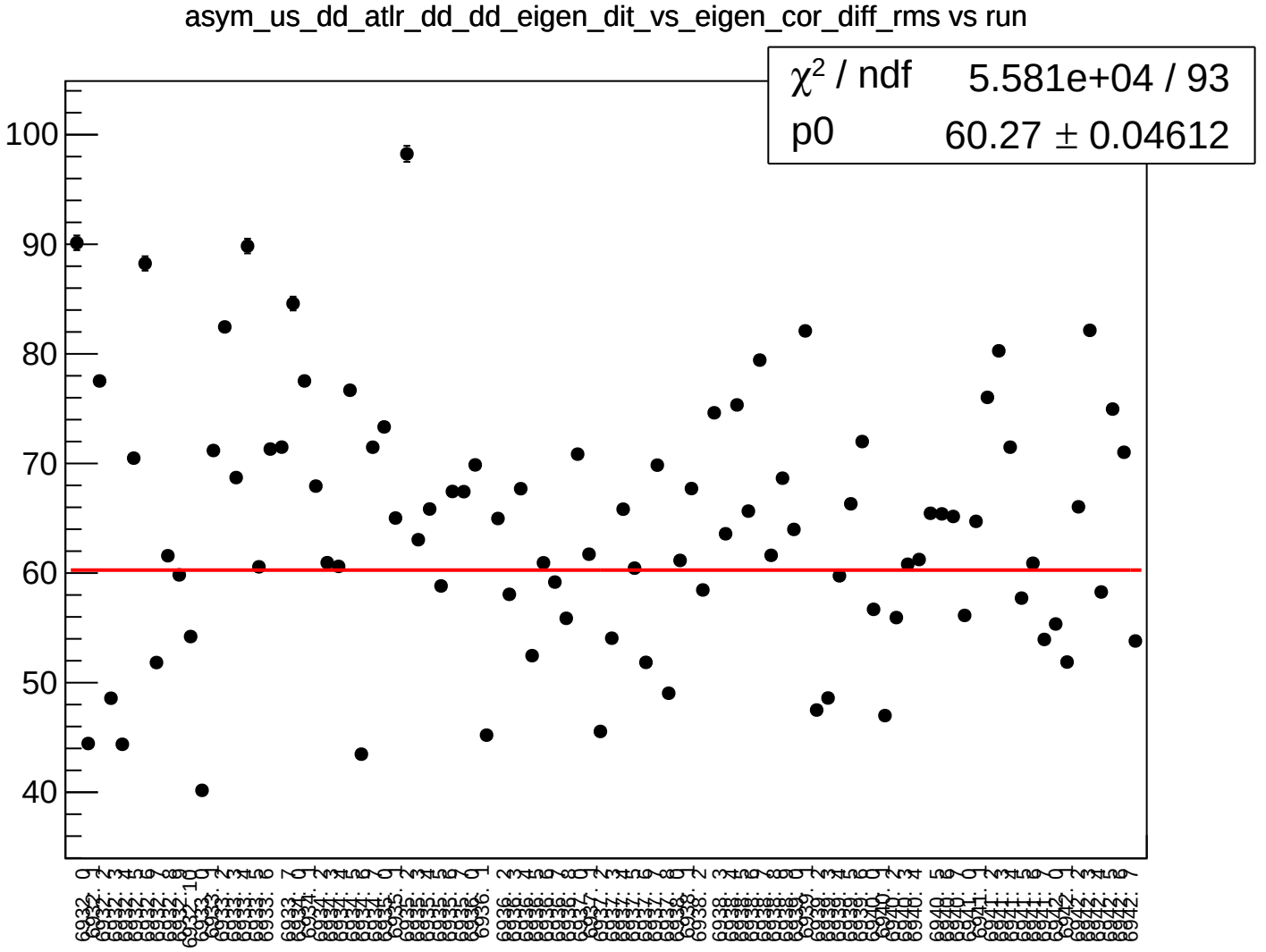

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5992 / 93
p0 0.008502 ± 6.412e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075

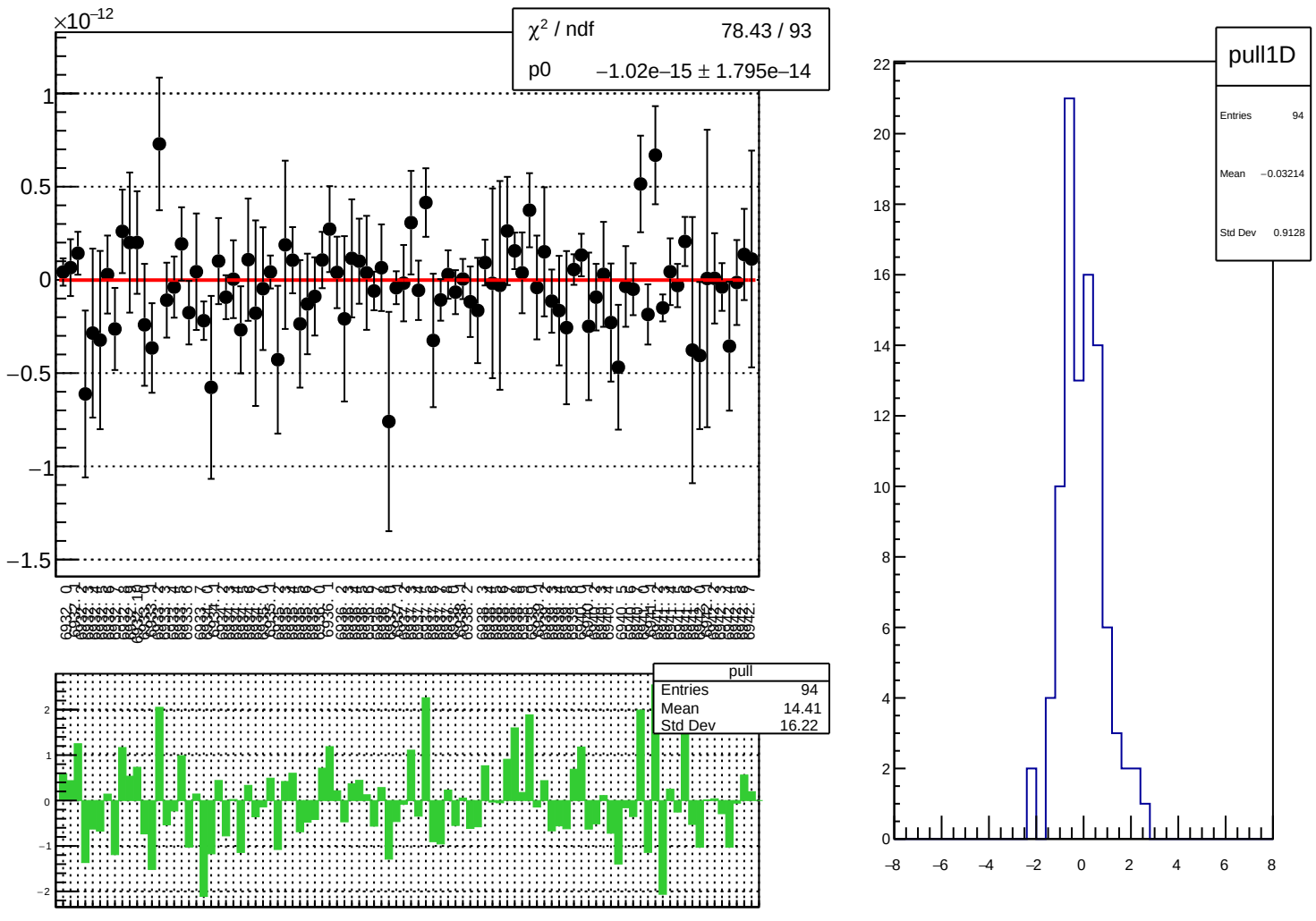

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.63 / 93
p0 −0.02669 ± 0.06522
pull
Entries 94
Mean 750.4
Std Dev 0

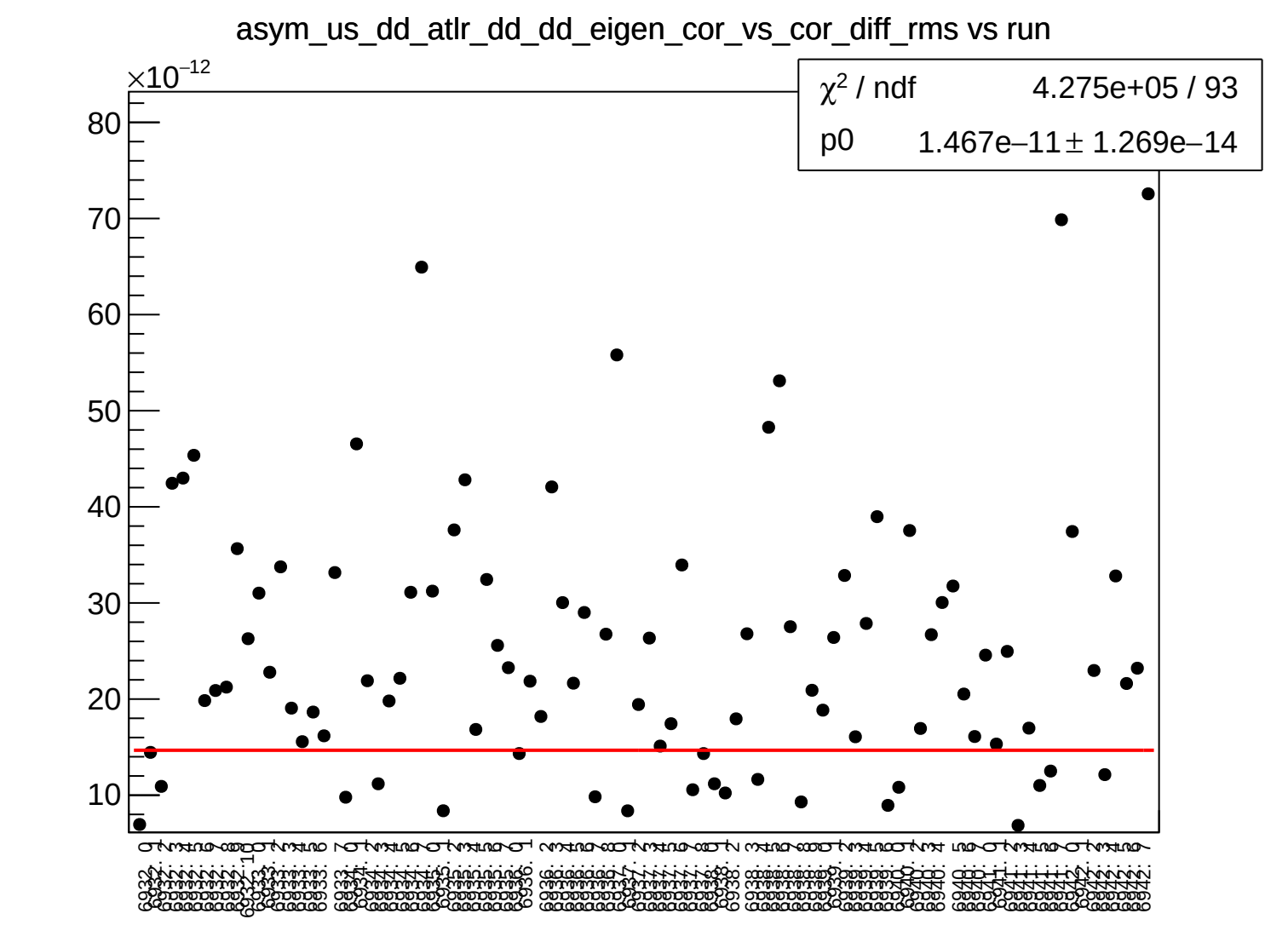

pull1D
Entries 94
Mean 0.006694
Std Dev 0.891

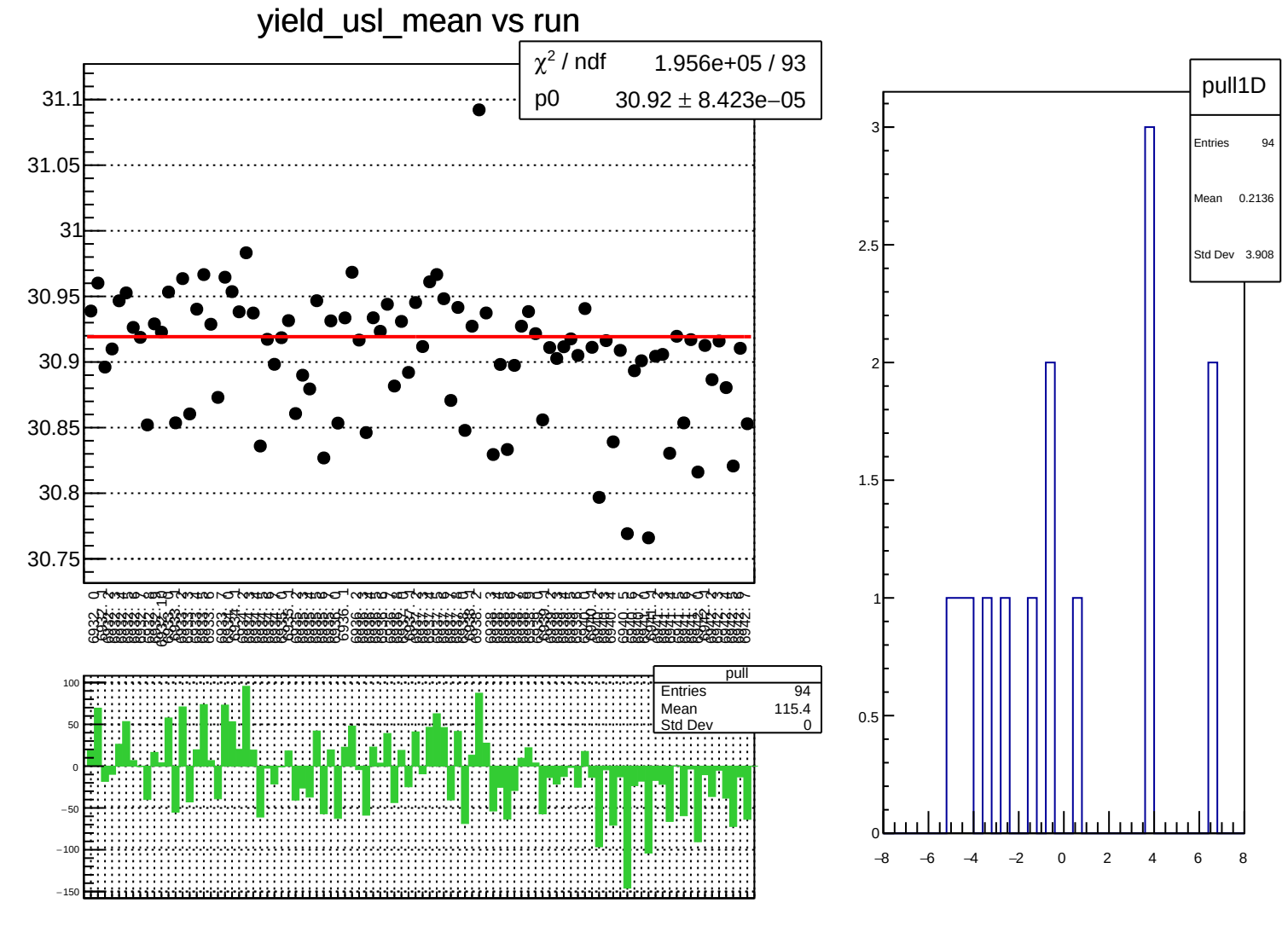

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.581e+04 / 93
p0 60.27 ± 0.04612
100
90
80
70
60
50
40

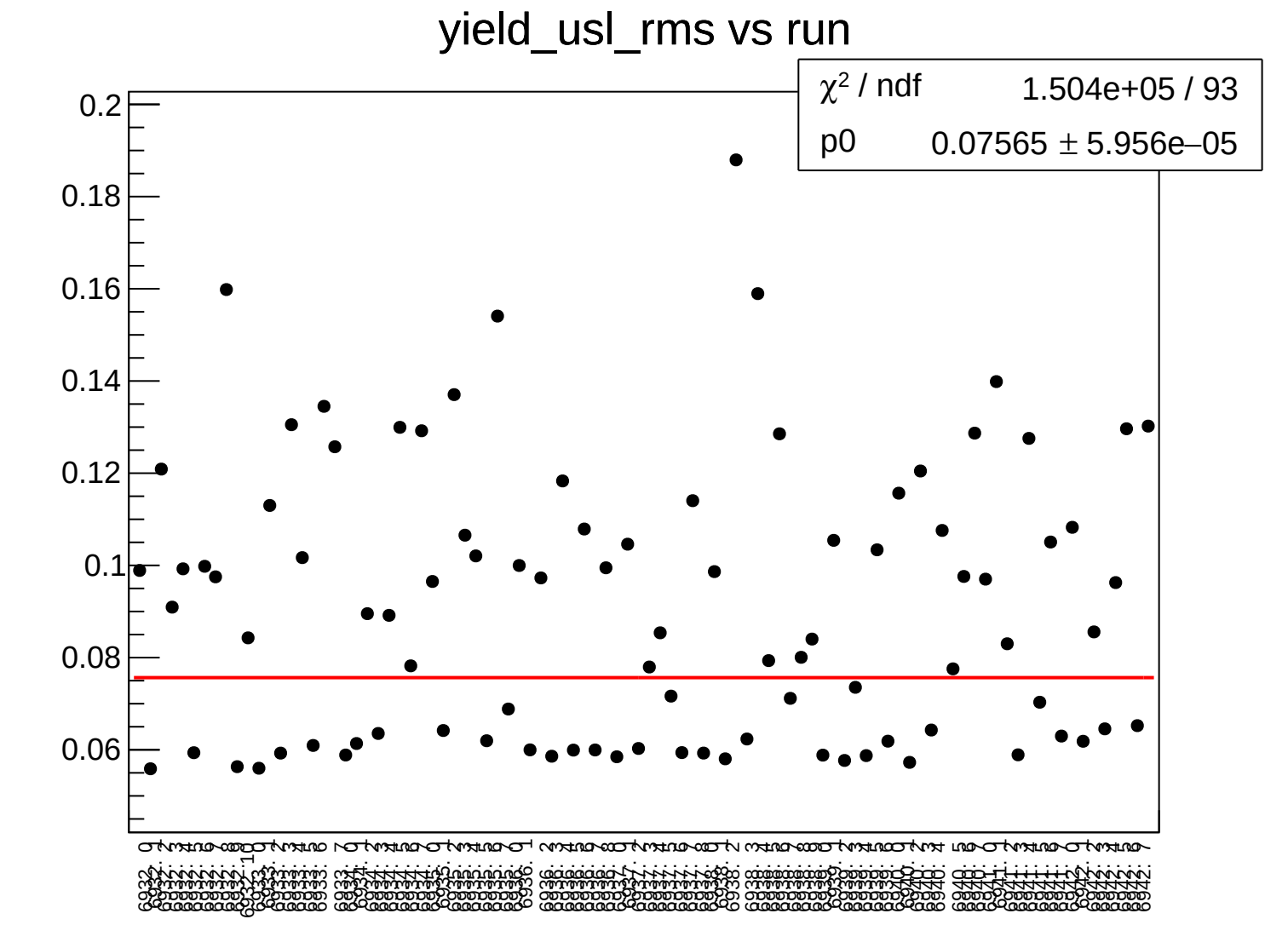

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.63 / 93
p0 −0.02669 ± 0.06522
pull
Entries 94
Mean 750.4
Std Dev 0
pull1D
Entries 94
Mean 0.006694
Std Dev 0.891

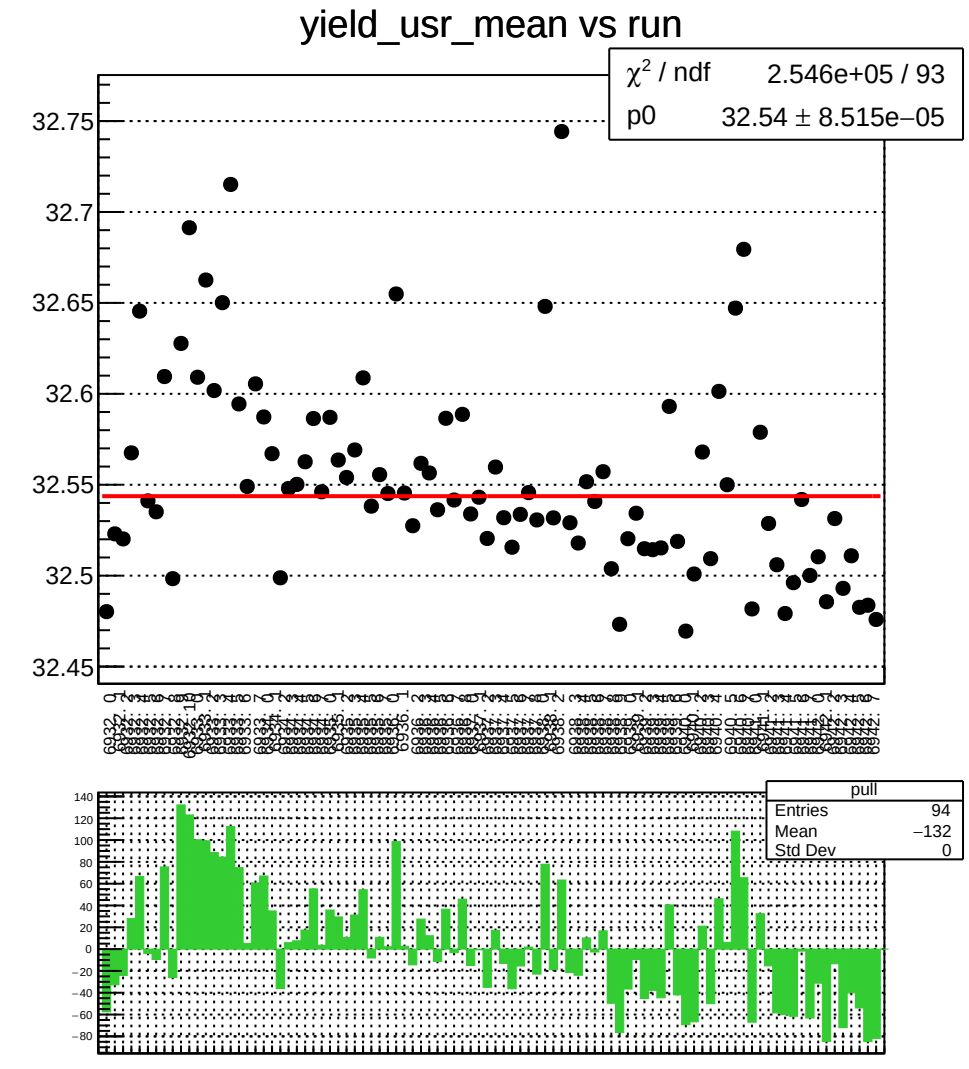

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.581e+04 / 93
p0 60.27 ± 0.04612
100
90
80
70
60
50
40

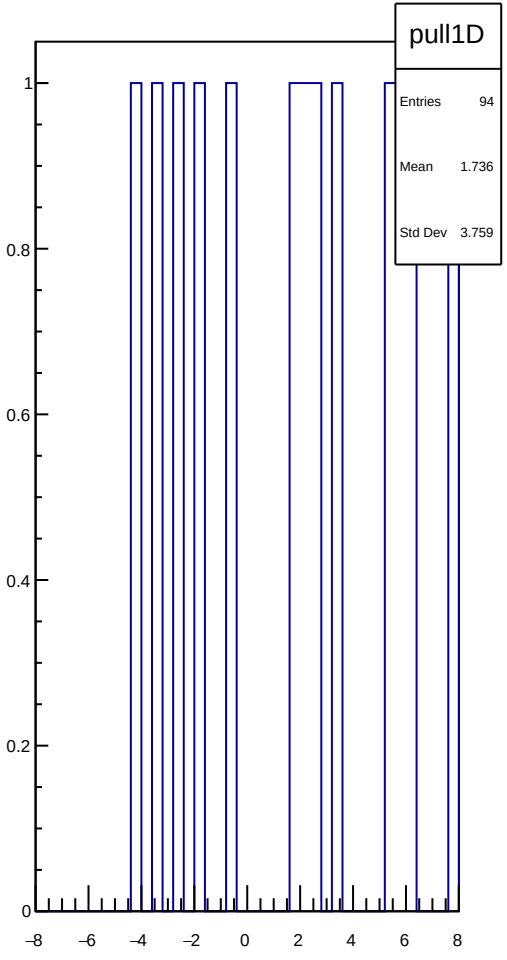

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.43 / 93
p0 −1.02e−15 ± 1.795e−14
pull
Entries 94
Mean 14.41
Std Dev 16.22
pull1D
Entries 94
Mean −0.03214
Std Dev 0.9128

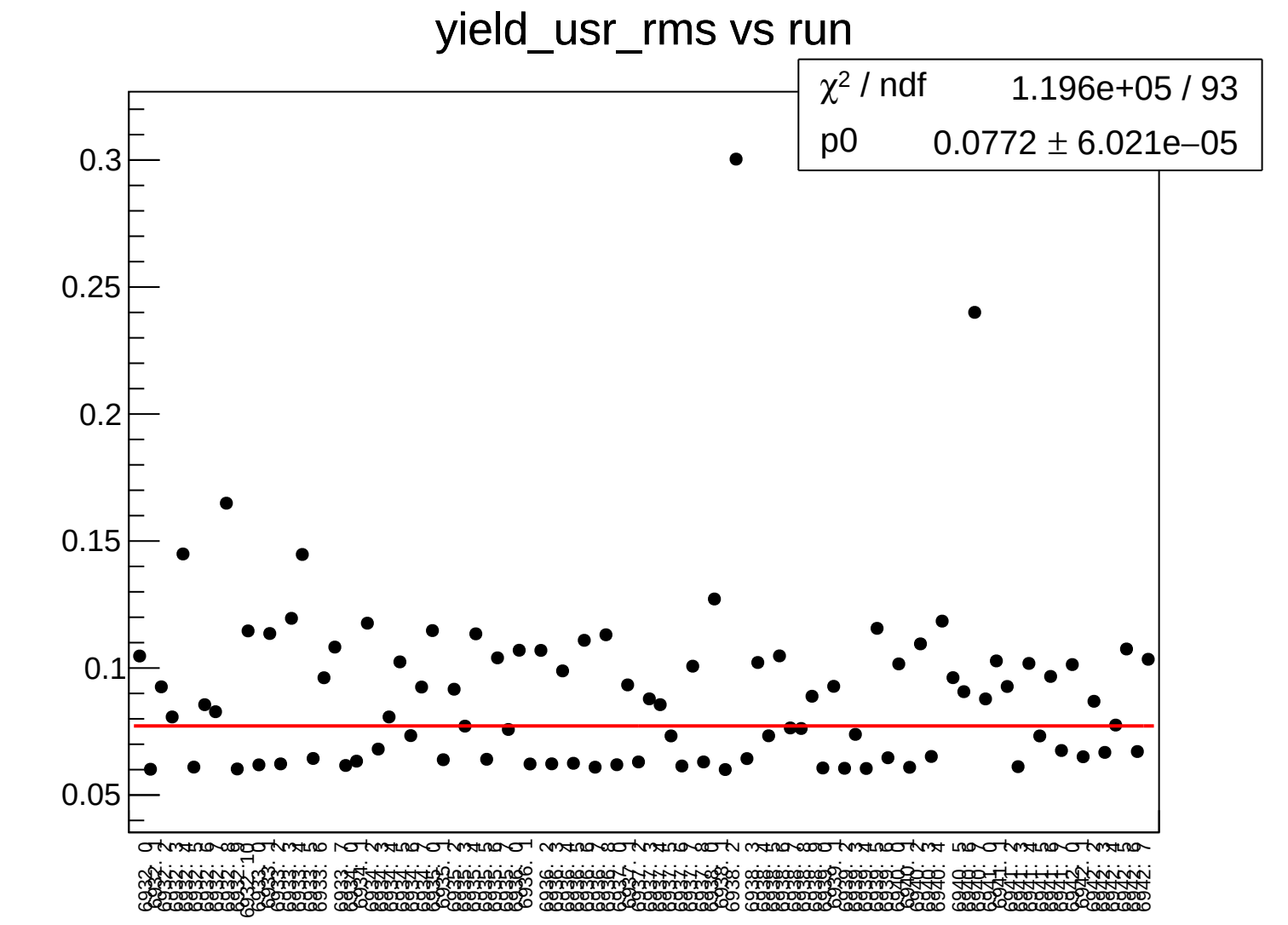

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.275e+05 / 93
p0 1.467e−11 ± 1.269e−14
80
70
60
50
40
30
20
10

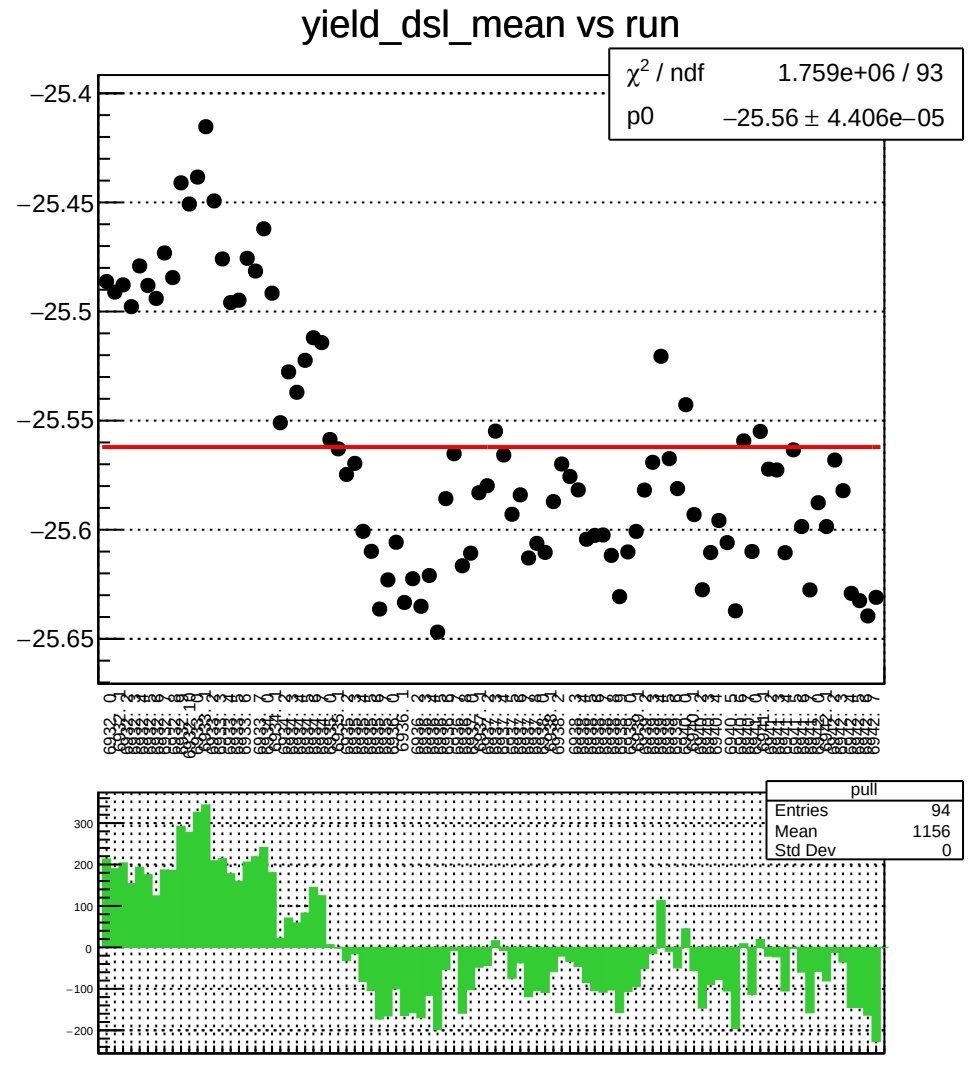

yield_usl_mean vs run
χ² / ndf 1.956e+05 / 93
p0 30.92 ± 8.423e−05
31.1
31.05
31
30.95
30.9
30.85
30.8
30.75
pull
Entries 94
Mean 115.4
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean 0.2136
Std Dev 3.908
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

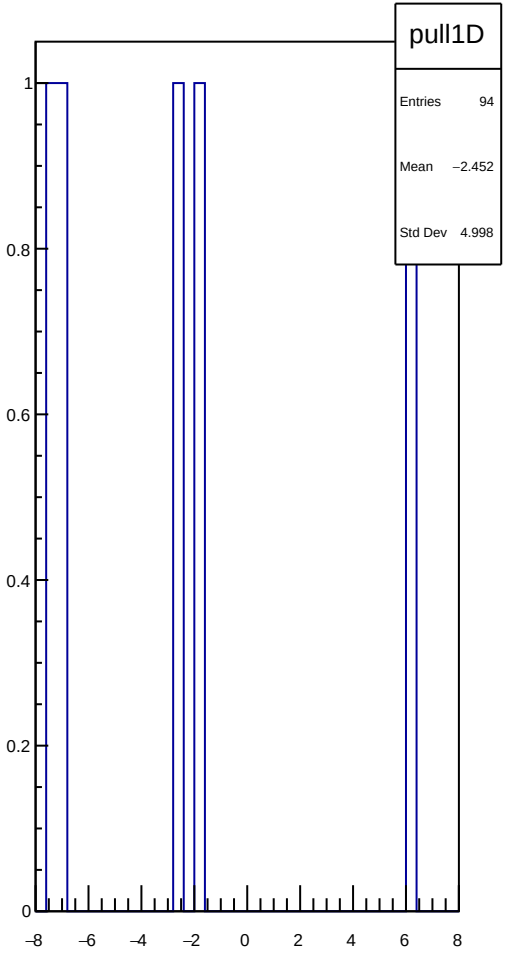

yield_usl_rms vs run
χ² / ndf 1.504e+05 / 93
p0 0.07565 ± 5.956e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

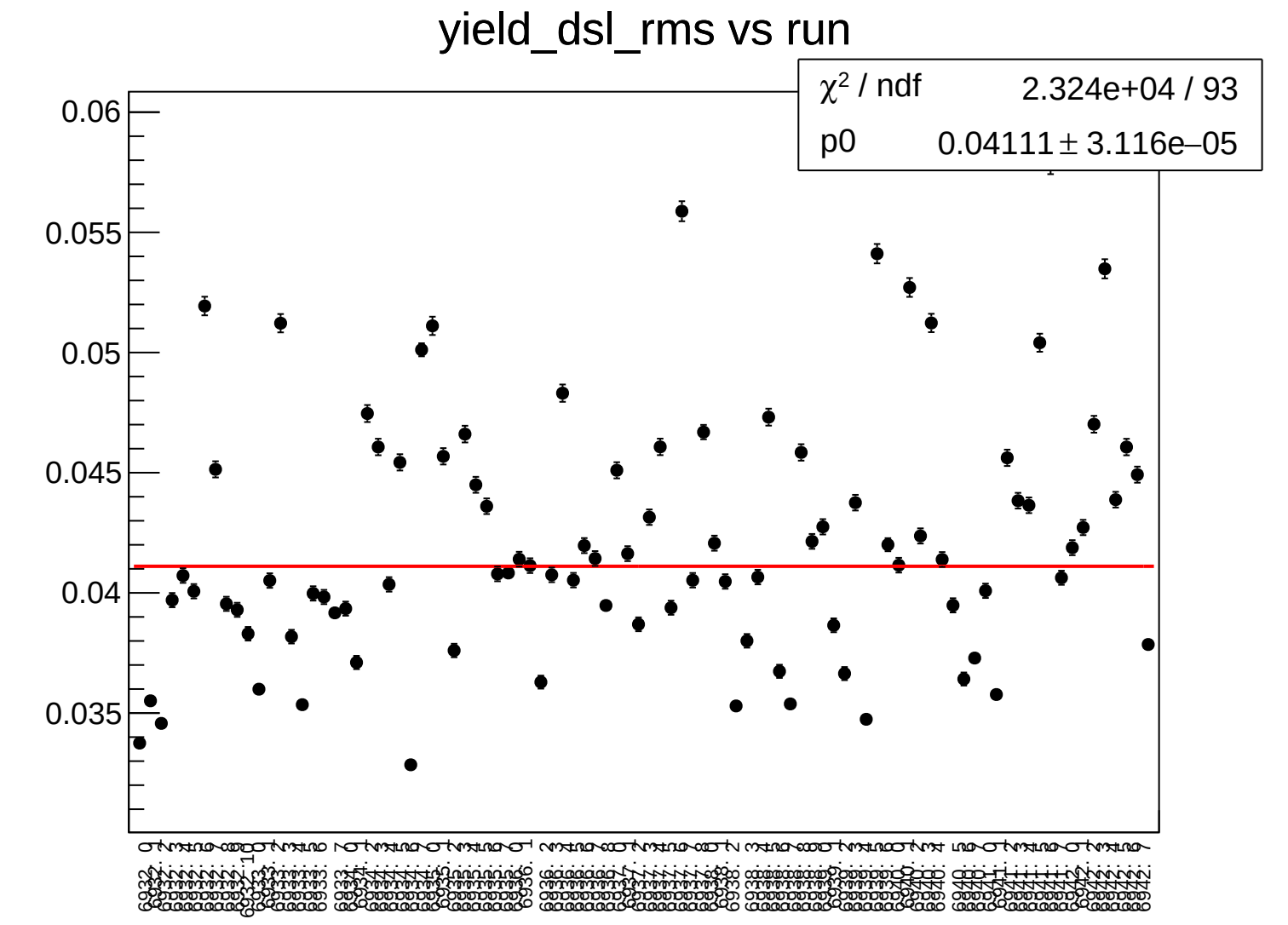

yield_usr_mean vs run
χ² / ndf 2.546e+05 / 93
p0 32.54 ± 8.515e−05
32.75
32.7
32.65
32.6
32.55
32.5
32.45
pull
Entries 94
Mean −132
Std Dev 0
140
120
100
80
60
40
20
0
−20
−40
−60
−80

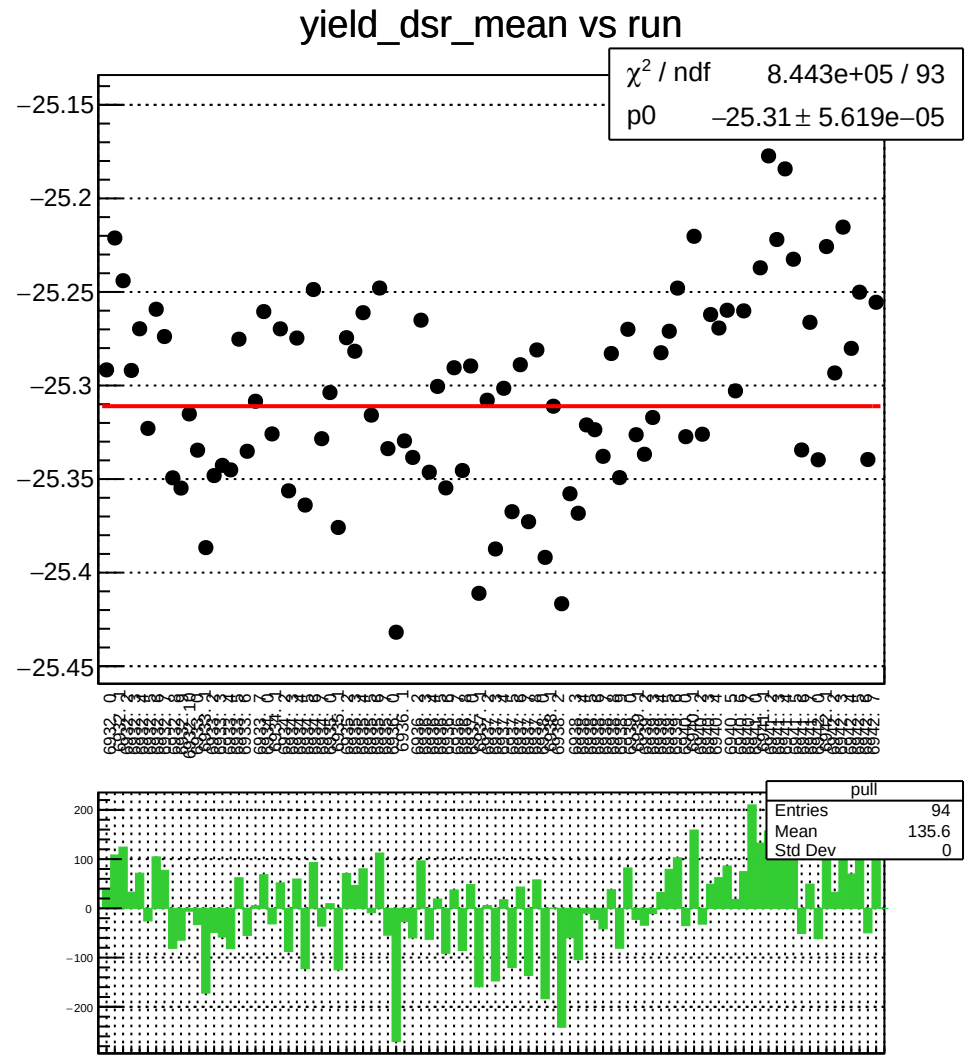

pull1D
Entries 94
Mean 1.736
Std Dev 3.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

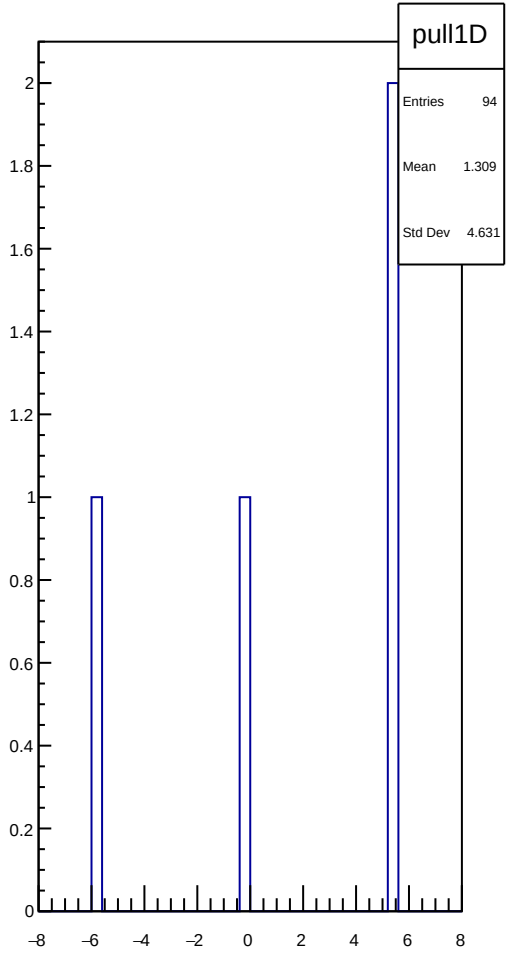

yield_usr_rms vs run
χ² / ndf 1.196e+05 / 93
p0 0.0772 ± 6.021e−05
0.3
0.25
0.2
0.15
0.1
0.05

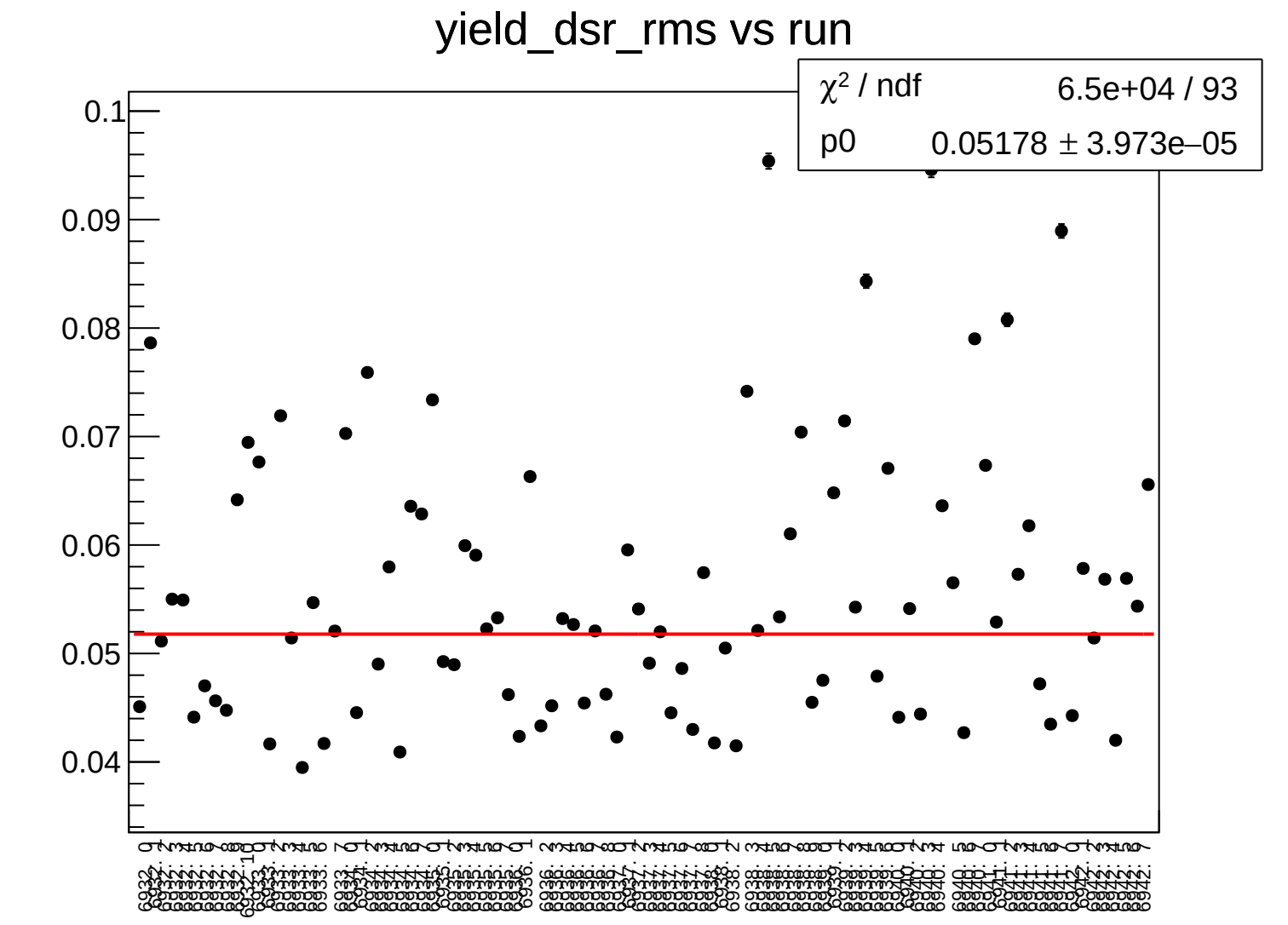

yield_dsl_mean vs run
χ² / ndf 1.759e+06 / 93
p0 −25.56 ± 4.406e−05
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 94
Mean 1156
Std Dev 0
300
200
100
0
−100
−200

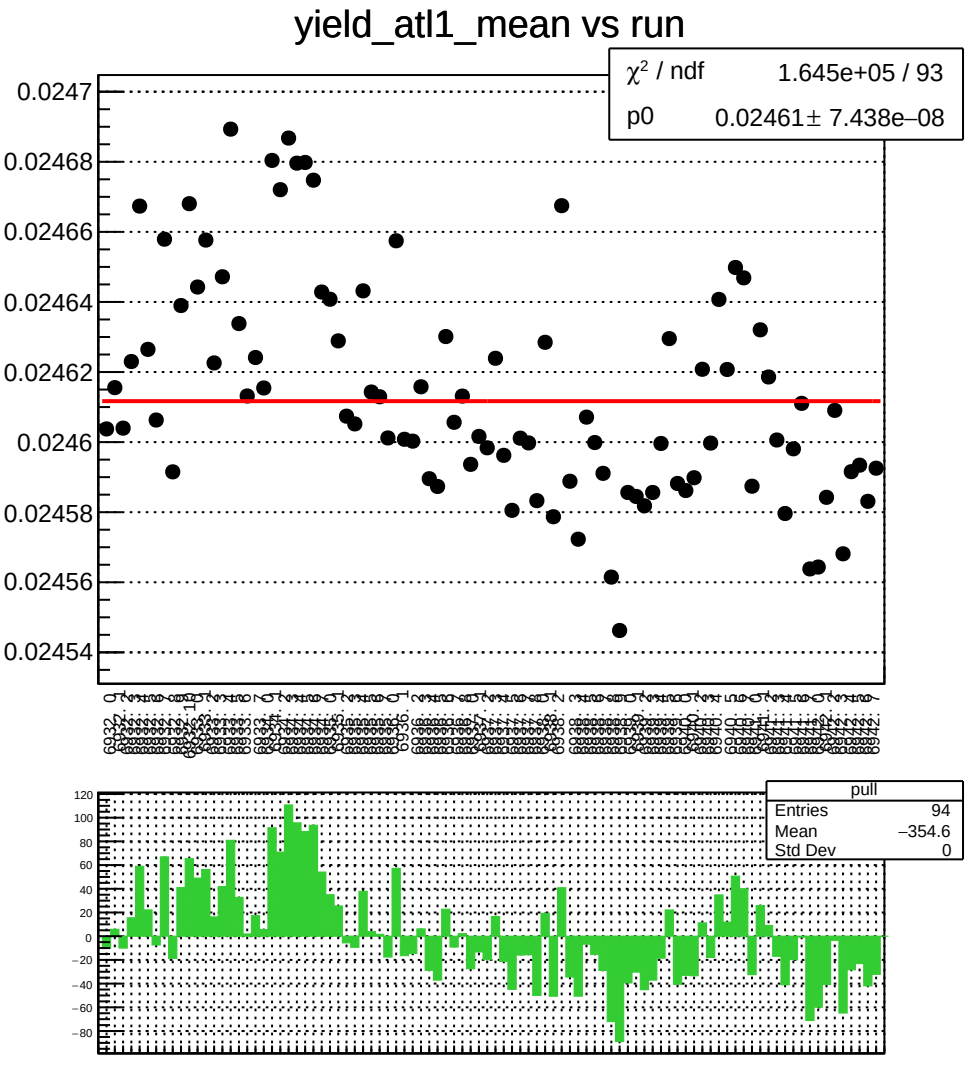

pull1D
Entries 94
Mean −2.452
Std Dev 4.998
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

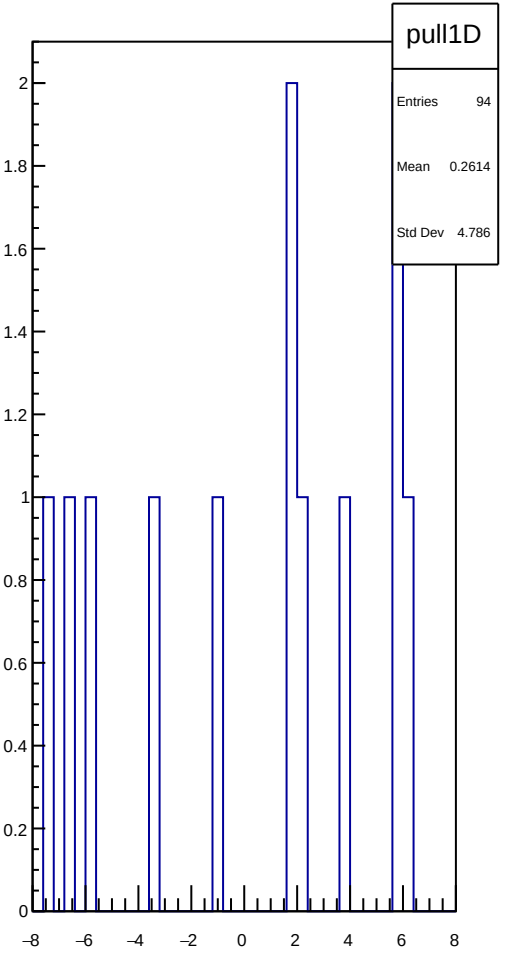

yield_dsl_rms vs run
χ² / ndf 2.324e+04 / 93
p0 0.04111 ± 3.116e−05
0.06
0.055
0.05
0.045
0.04
0.035

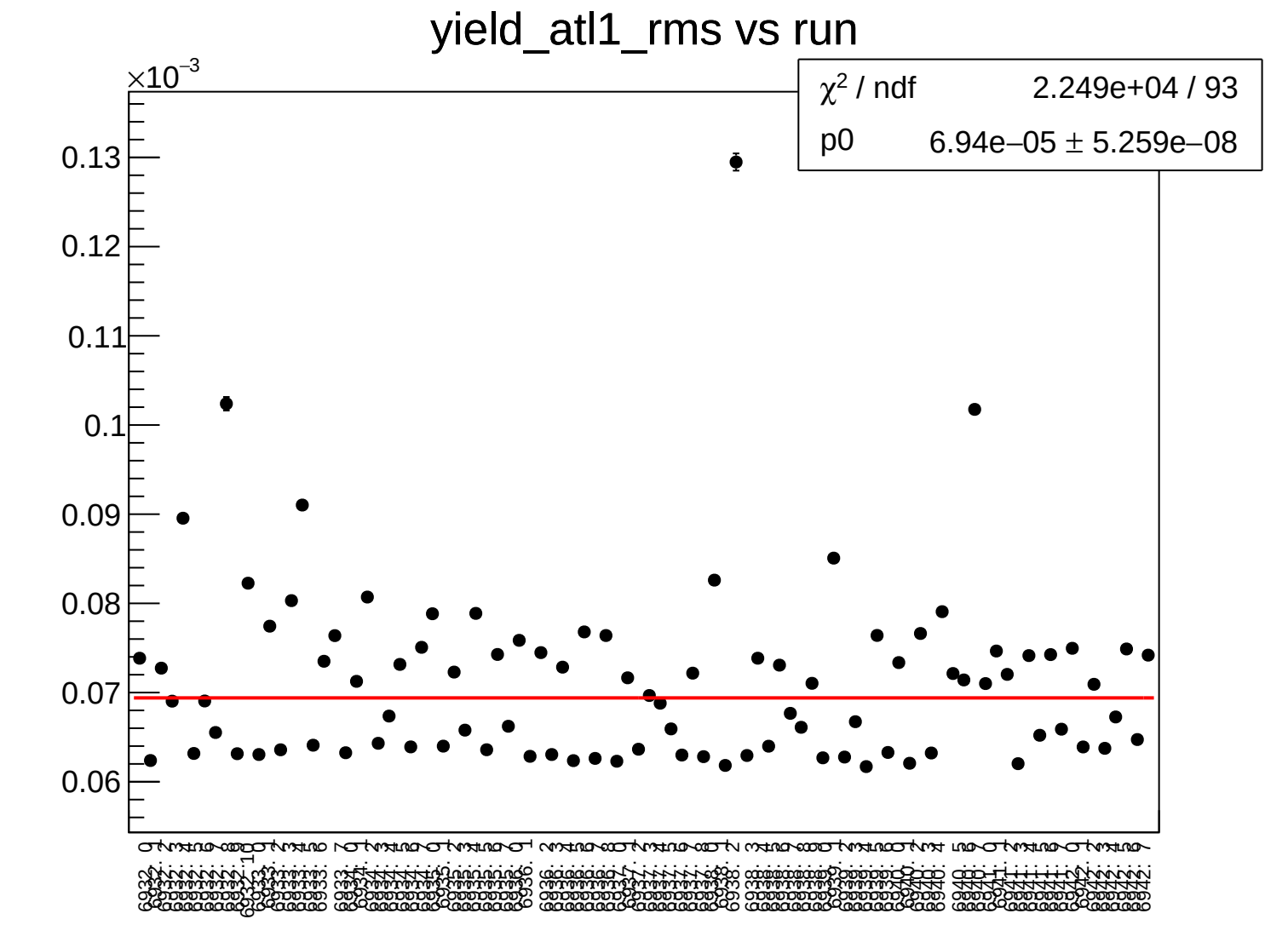

yield_dsr_mean vs run
χ² / ndf 8.443e+05 / 93
p0 −25.31 ± 5.619e−05
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 94
Mean 135.6
Std Dev 0
200
100
0
−100
−200

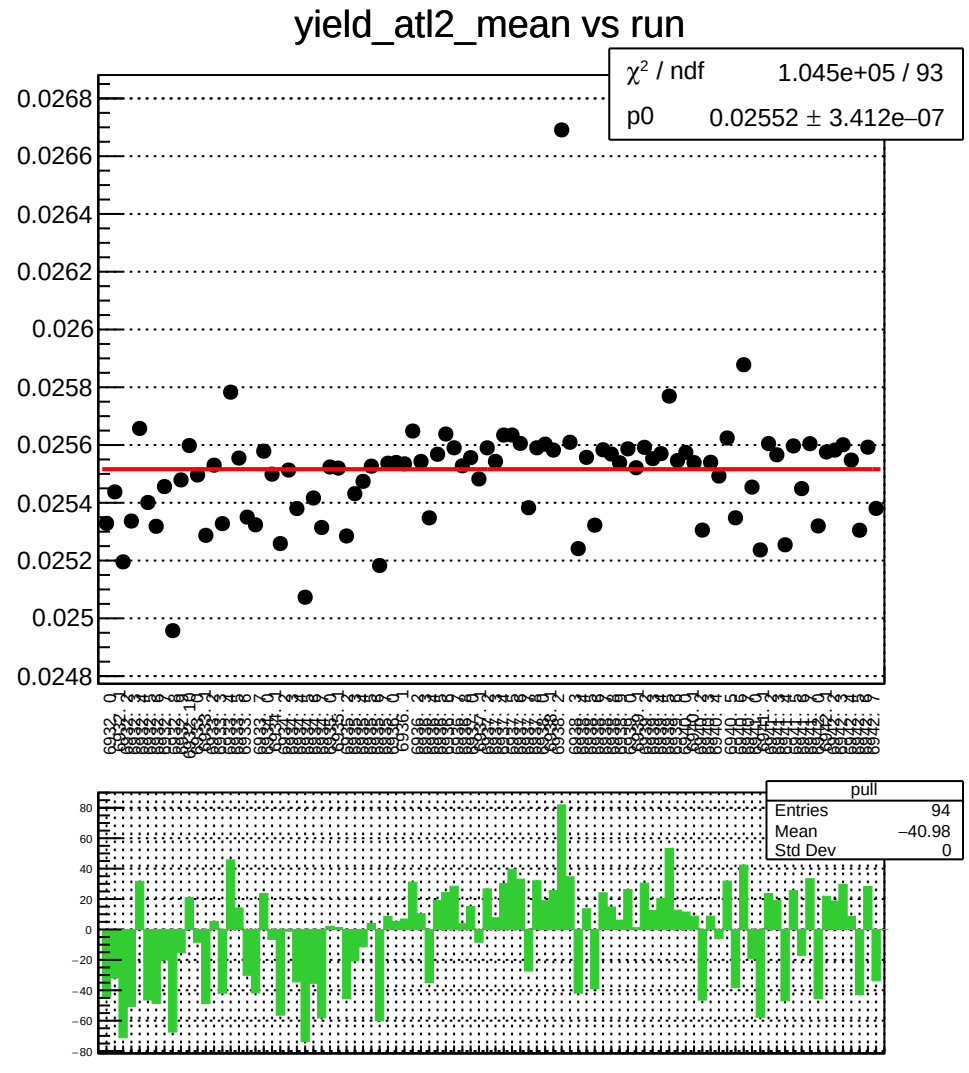

pull1D
Entries 94
Mean 1.309
Std Dev 4.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

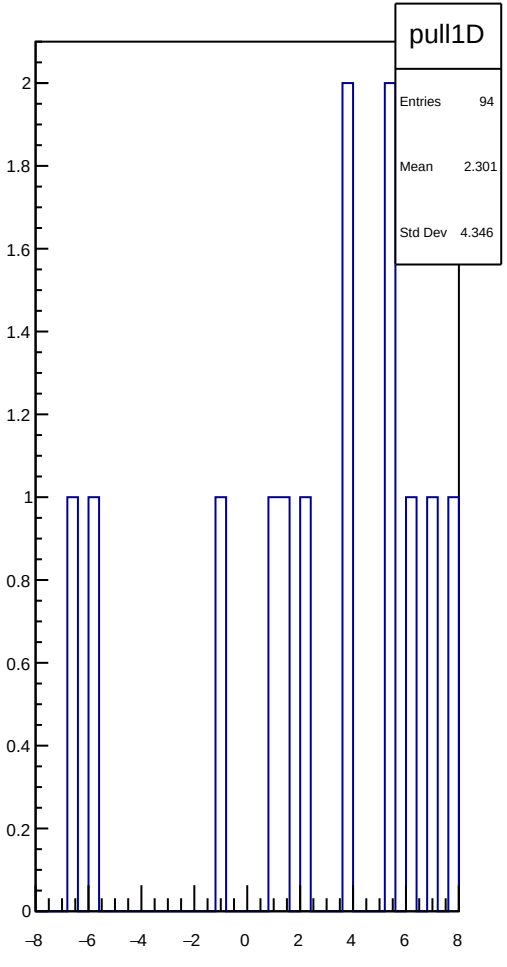

yield_dsr_rms vs run
χ² / ndf 6.5e+04 / 93
p0 0.05178 ± 3.973e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

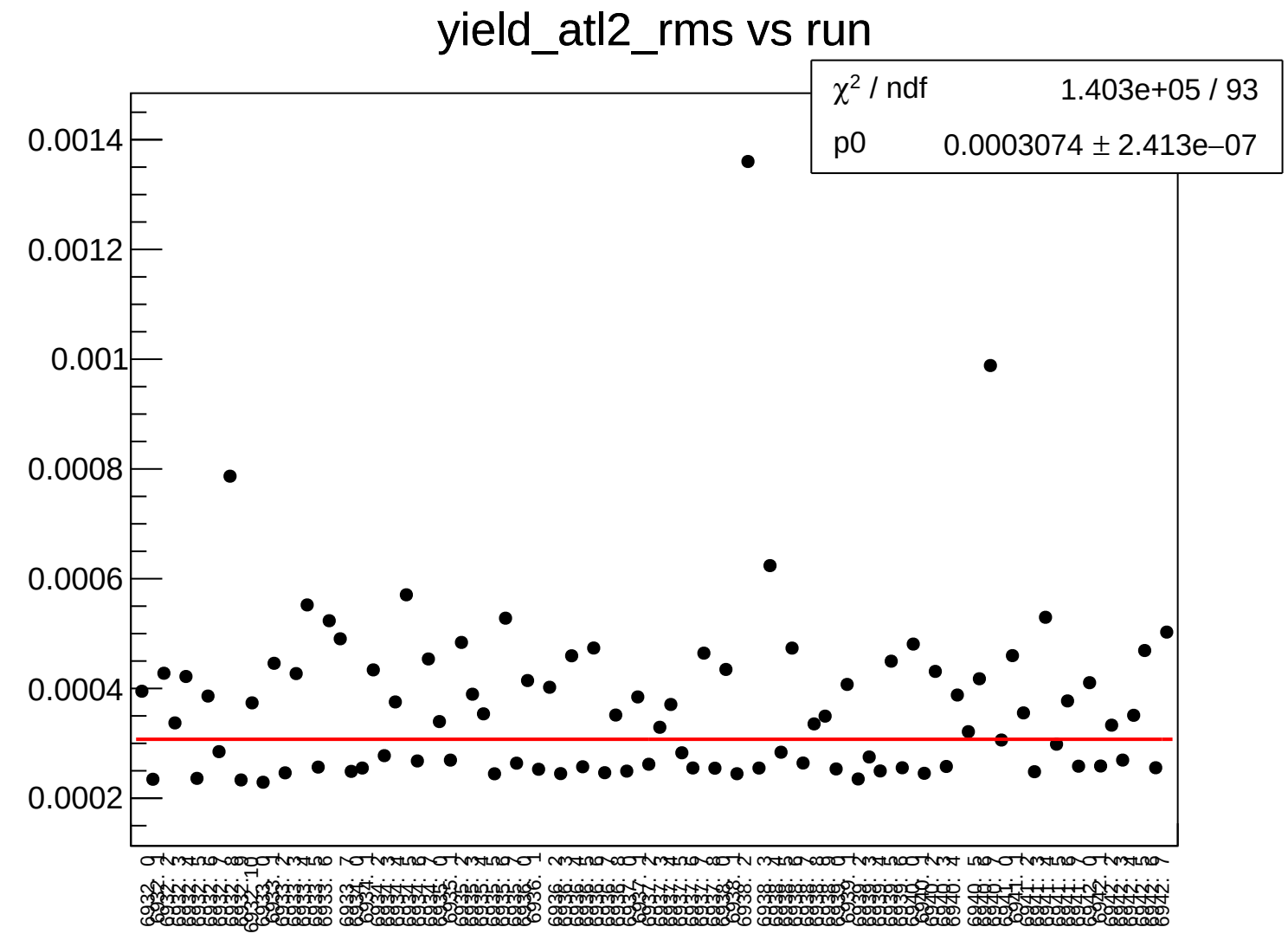

yield_atl1_mean vs run
χ² / ndf 1.645e+05 / 93
p0 0.02461± 7.438e–08
0.0247
0.02468
0.02466
0.02464
0.02462
0.0246
0.02458
0.02456
0.02454
pull
Entries 94
Mean –354.6
Std Dev 0
120
100
80
60
40
20
0
–20
–40
–60
–80

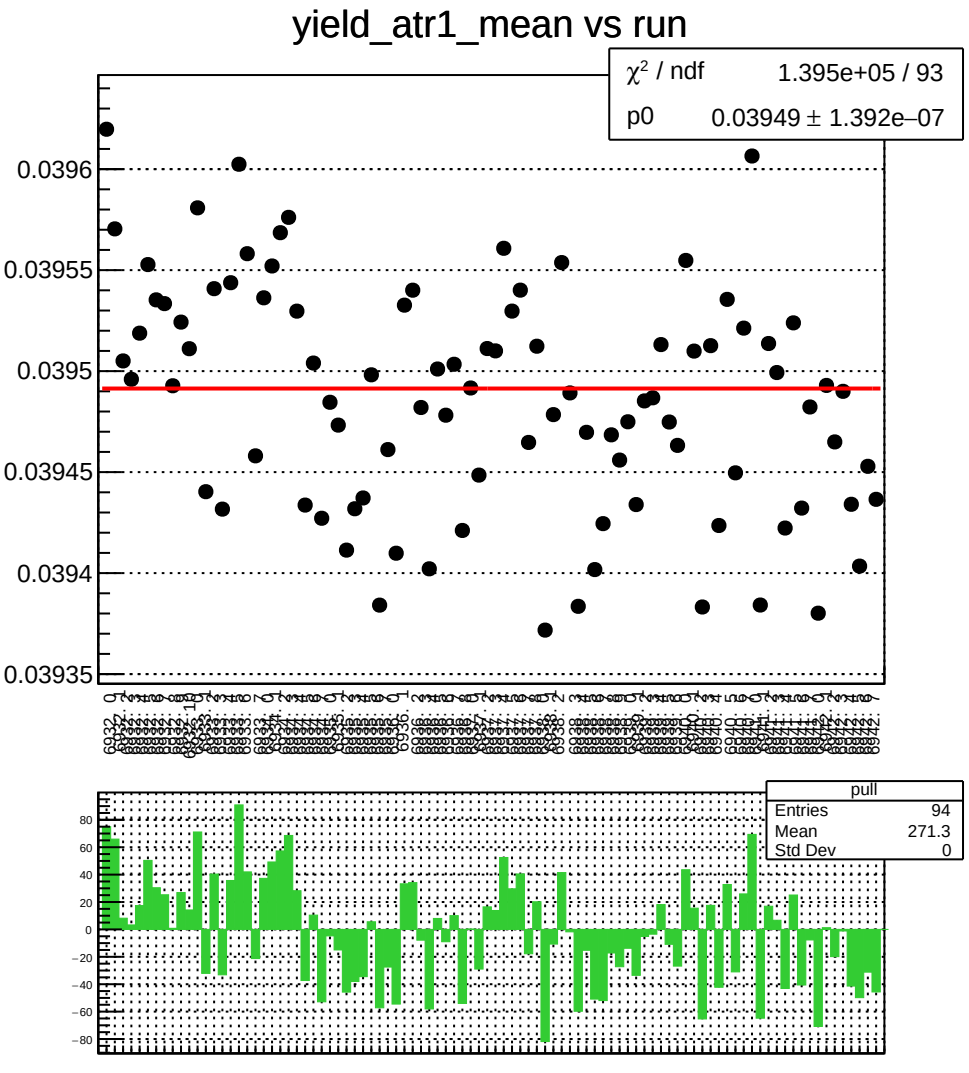

pull1D
Entries 94
Mean 0.2614
Std Dev 4.786
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

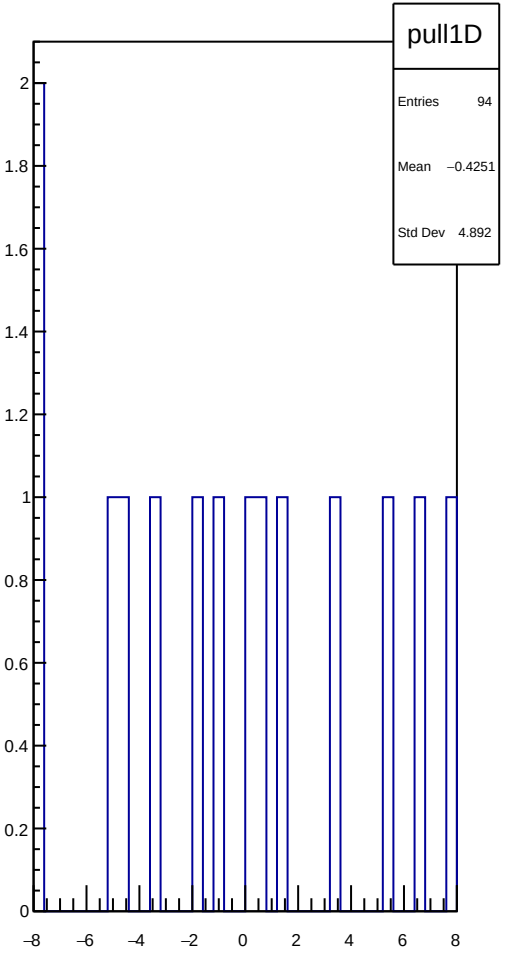

yield_atl1_rms vs run
×10⁻³
χ² / ndf 2.249e+04 / 93
p0 6.94e−05 ± 5.259e−08
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06

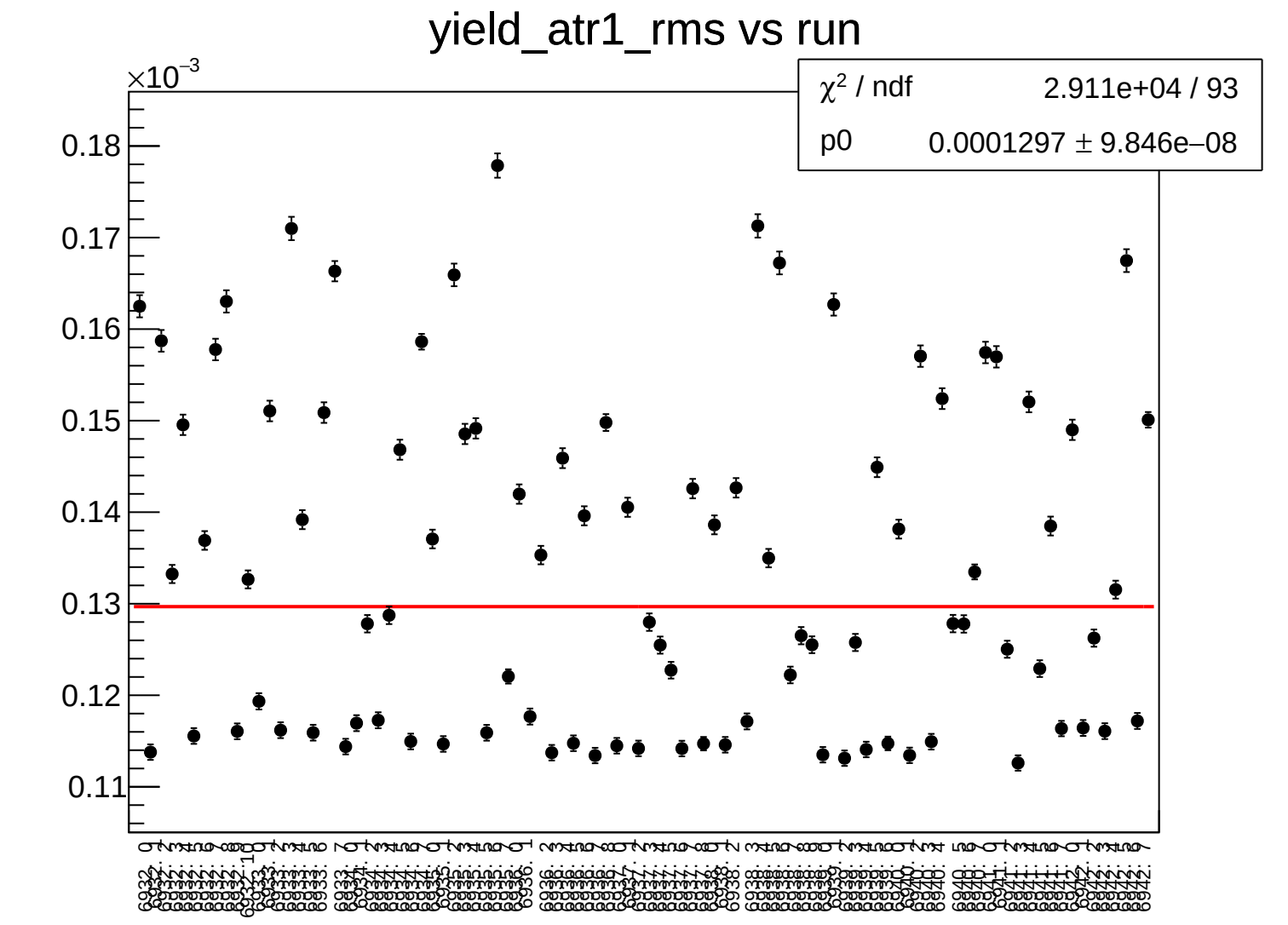

yield_atl2_mean vs run
χ² / ndf 1.045e+05 / 93
p0 0.02552 ± 3.412e–07
0.0268
0.0266
0.0264
0.0262
0.026
0.0258
0.0256
0.0254
0.0252
0.025
0.0248
pull
Entries 94
Mean –40.98
Std Dev 0
80
60
40
20
0
–20
–40
–60
–80

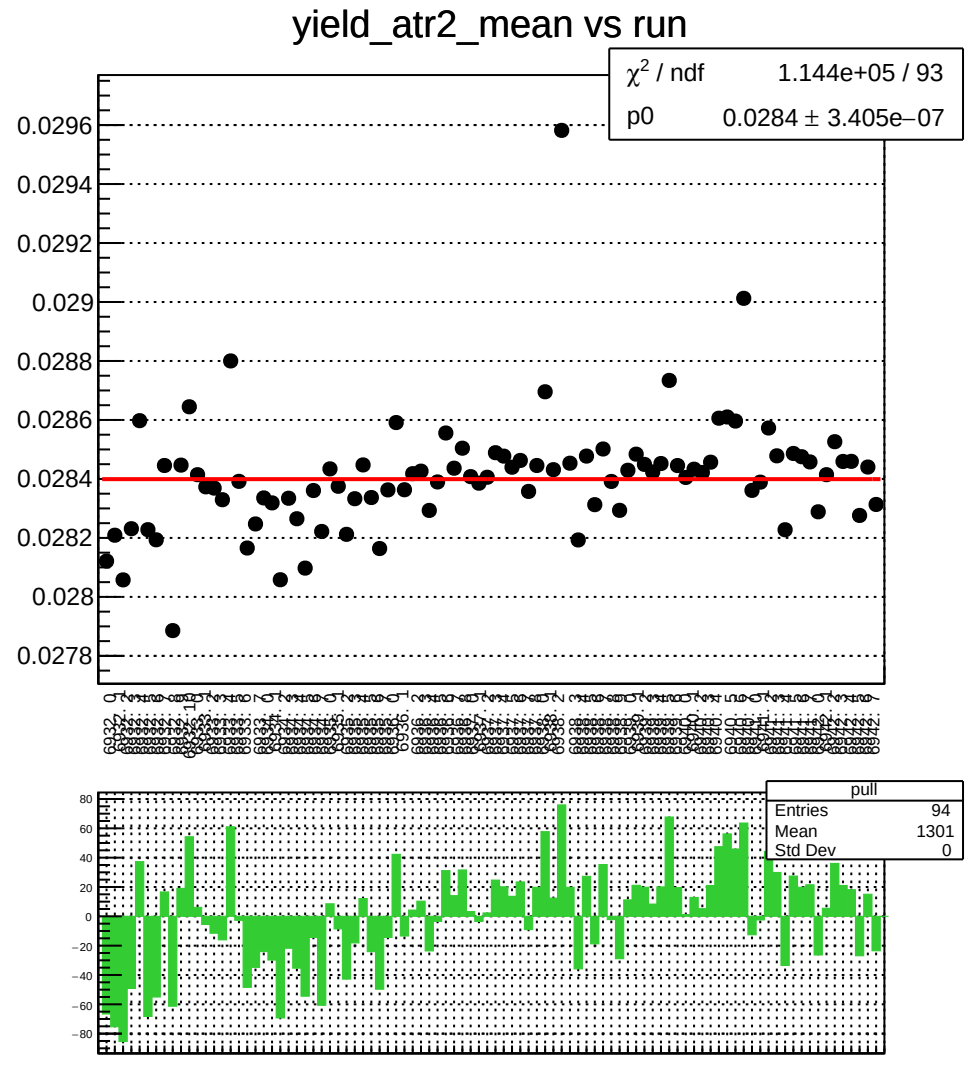

pull1D
Entries 94
Mean 2.301
Std Dev 4.346
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

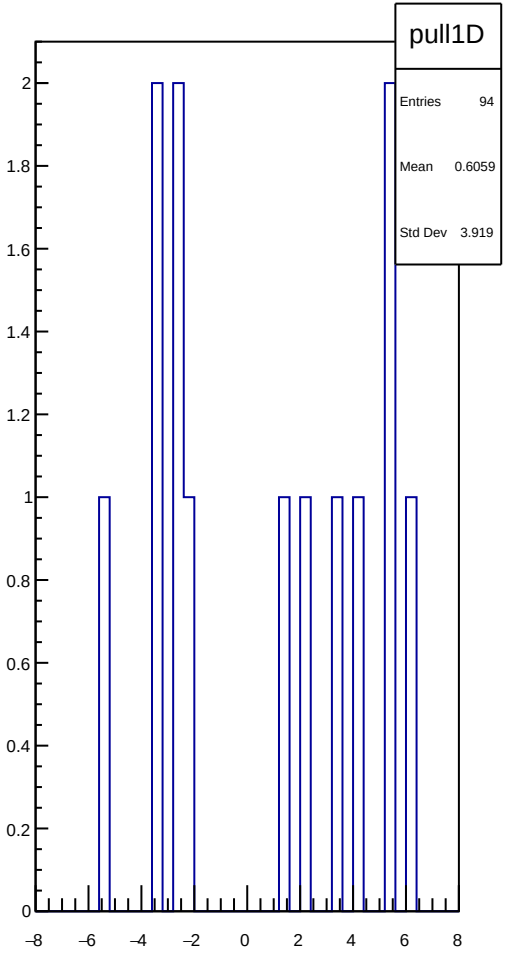

yield_atl2_rms vs run
χ² / ndf 1.403e+05 / 93
p0 0.0003074 ± 2.413e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

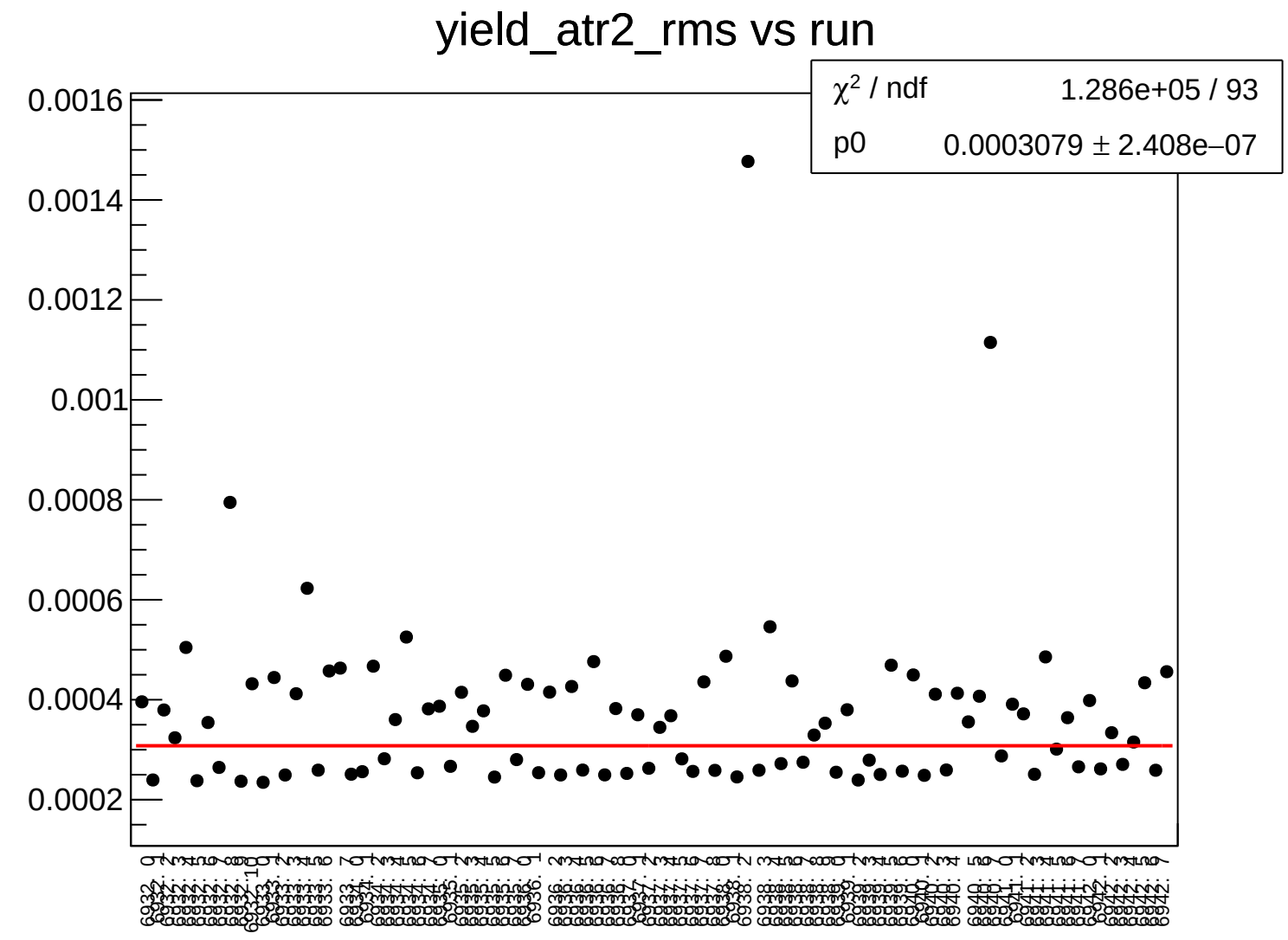

yield_atr1_mean vs run
χ² / ndf 1.395e+05 / 93
p0 0.03949 ± 1.392e−07
0.0396
0.03955
0.0395
0.03945
0.0394
0.03935
pull
Entries 94
Mean 271.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

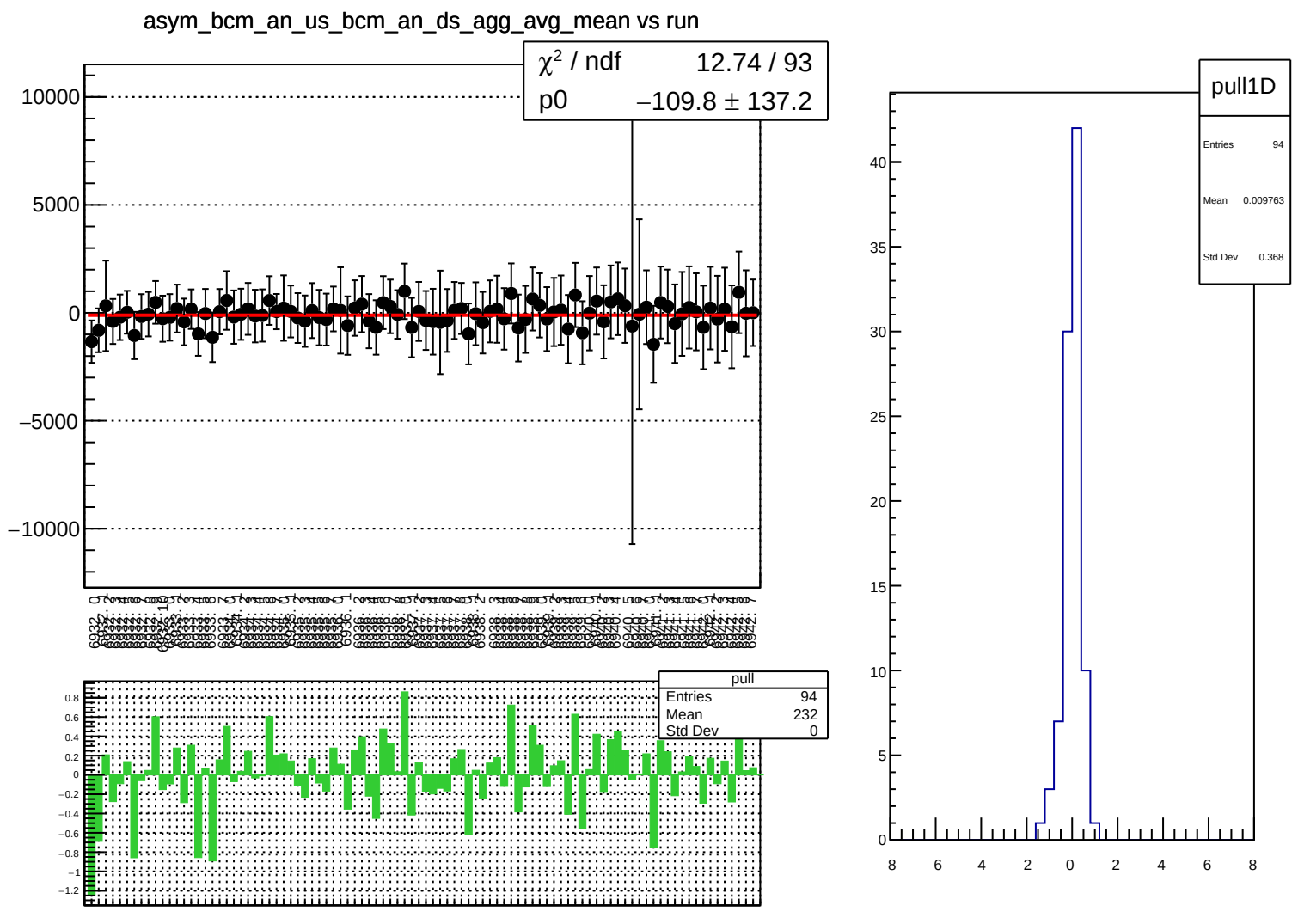

pull1D
Entries 94
Mean −0.4251
Std Dev 4.892
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

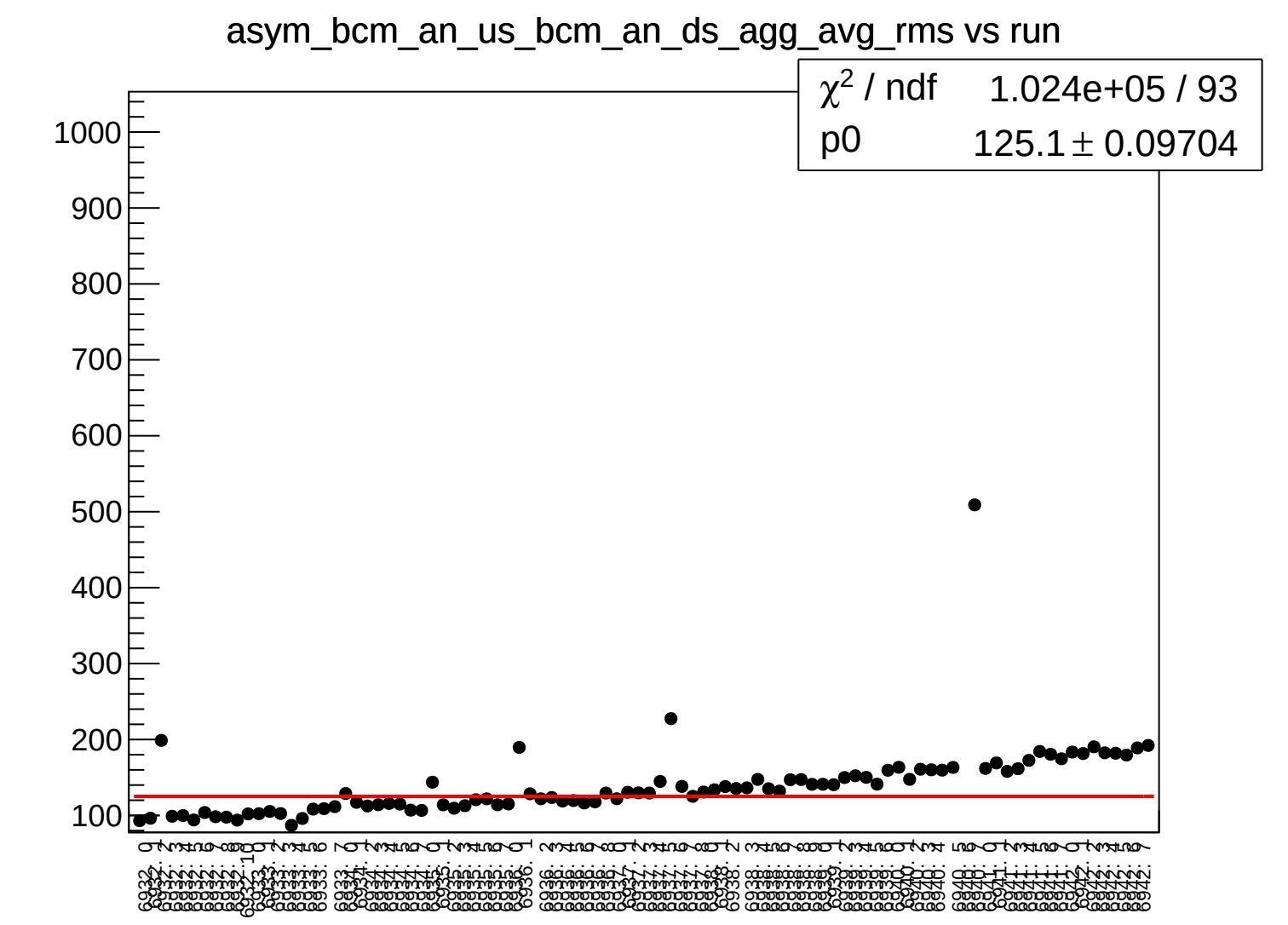

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.911e+04 / 93
p0 0.0001297 ± 9.846e−08
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11

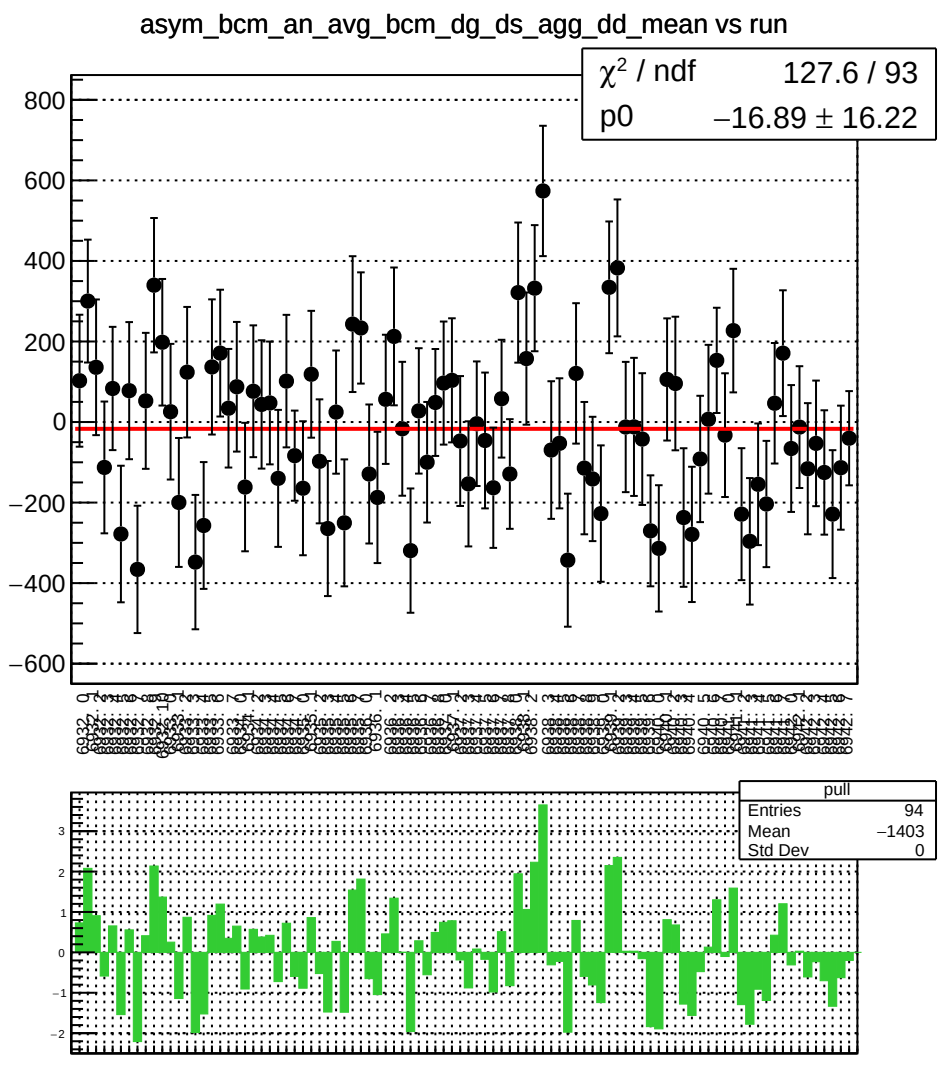

yield_atr2_mean vs run
χ² / ndf 1.144e+05 / 93
p0 0.0284 ± 3.405e−07
0.0296
0.0294
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
pull
Entries 94
Mean 1301
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

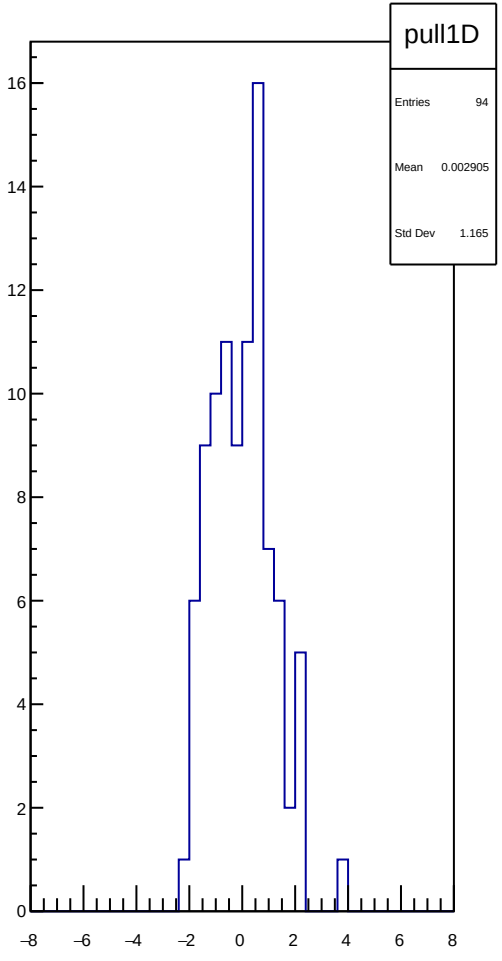

pull1D
Entries 94
Mean 0.6059
Std Dev 3.919
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

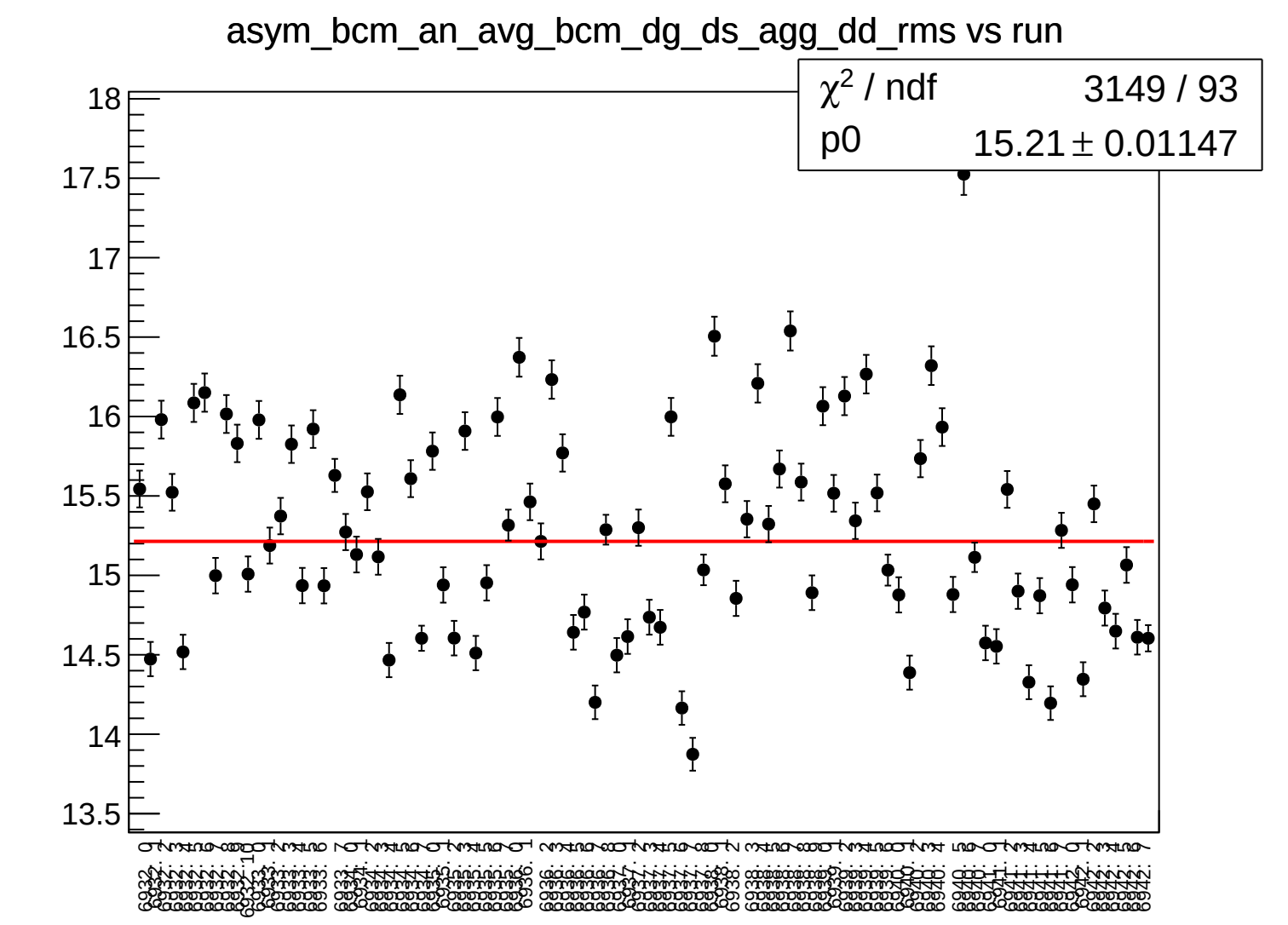

yield_atr2_rms vs run
χ² / ndf 1.286e+05 / 93
p0 0.0003079 ± 2.408e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

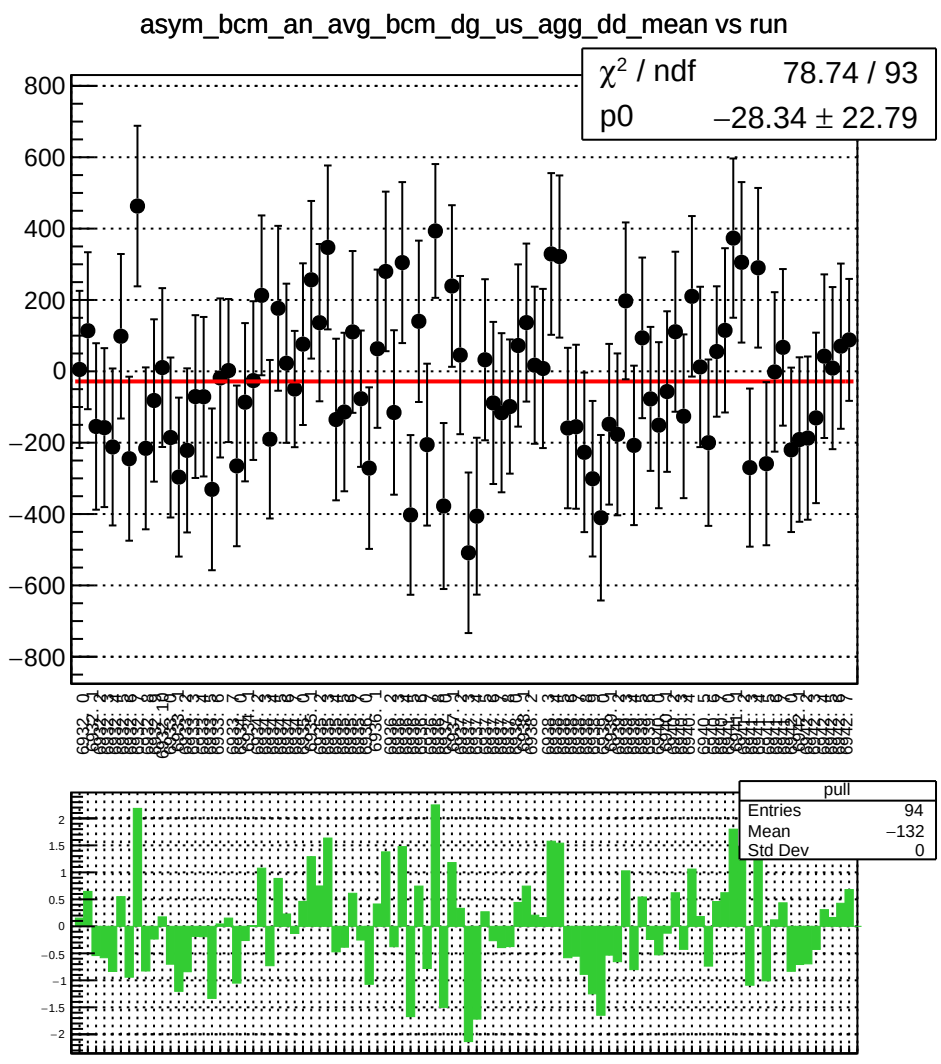

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.74 / 93
p0 −109.8 ± 137.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 232
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.009763
Std Dev 0.368
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

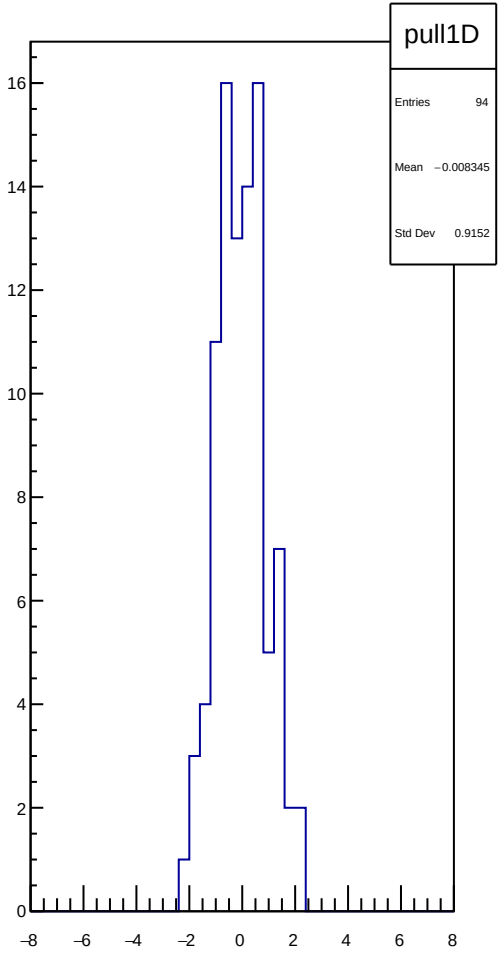

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.024e+05 / 93
p0 125.1 ± 0.09704
1000
900
800
700
600
500
400
300
200
100

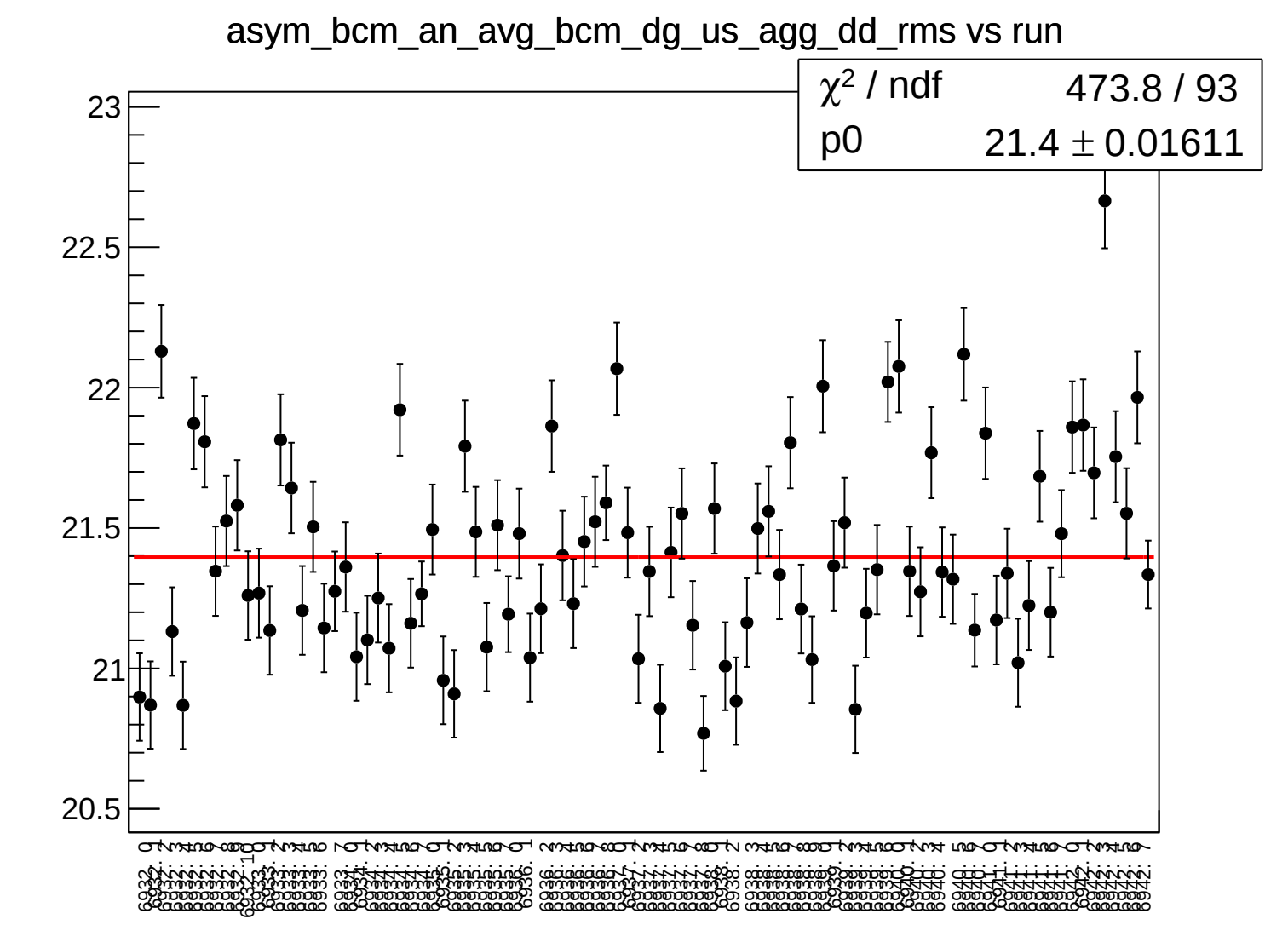

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 127.6 / 93
p0 −16.89 ± 16.22
pull
Entries 94
Mean −1403
Std Dev 0

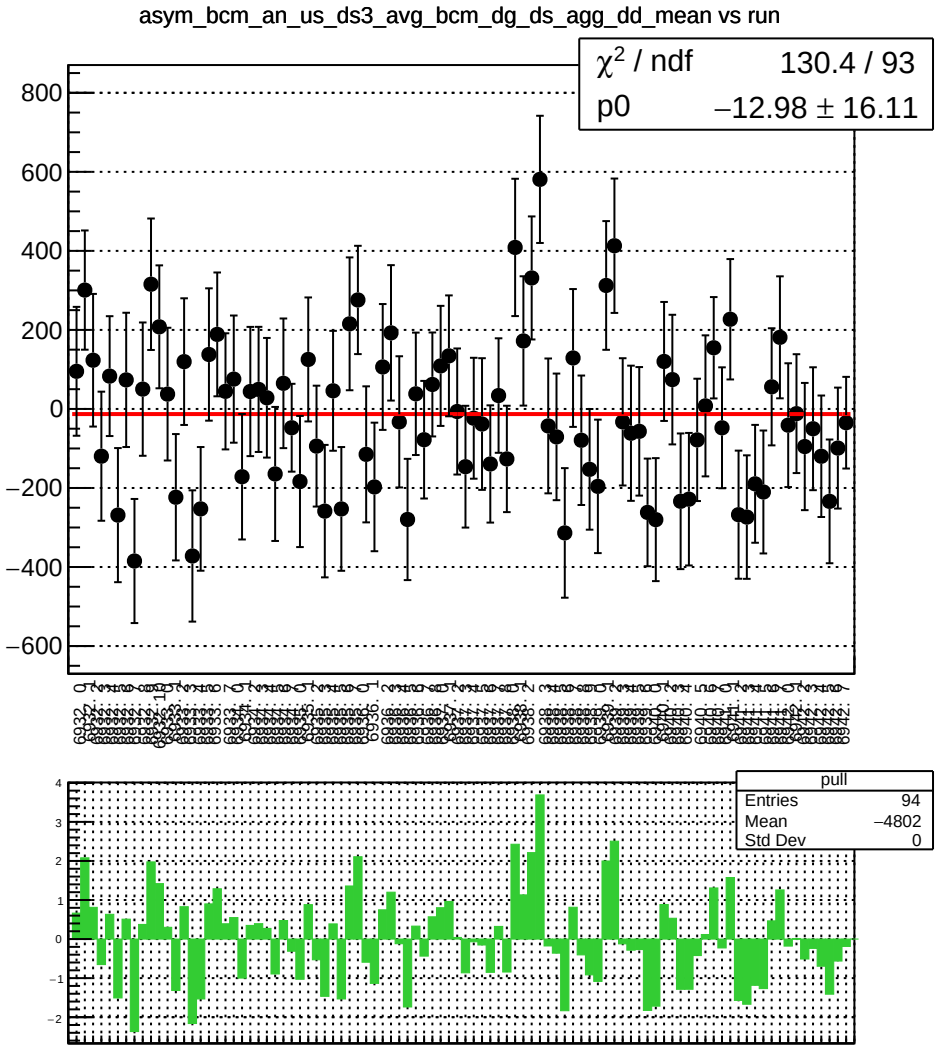

pull1D
Entries 94
Mean 0.002905
Std Dev 1.165

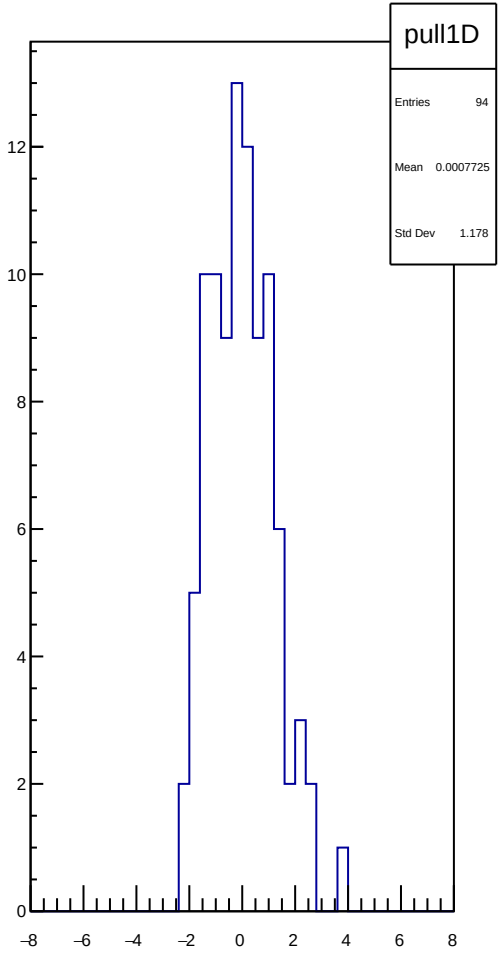

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 3149 / 93
p0 15.21 ± 0.01147
18
17.5
17
16.5
16
15.5
15
14.5
14
13.5

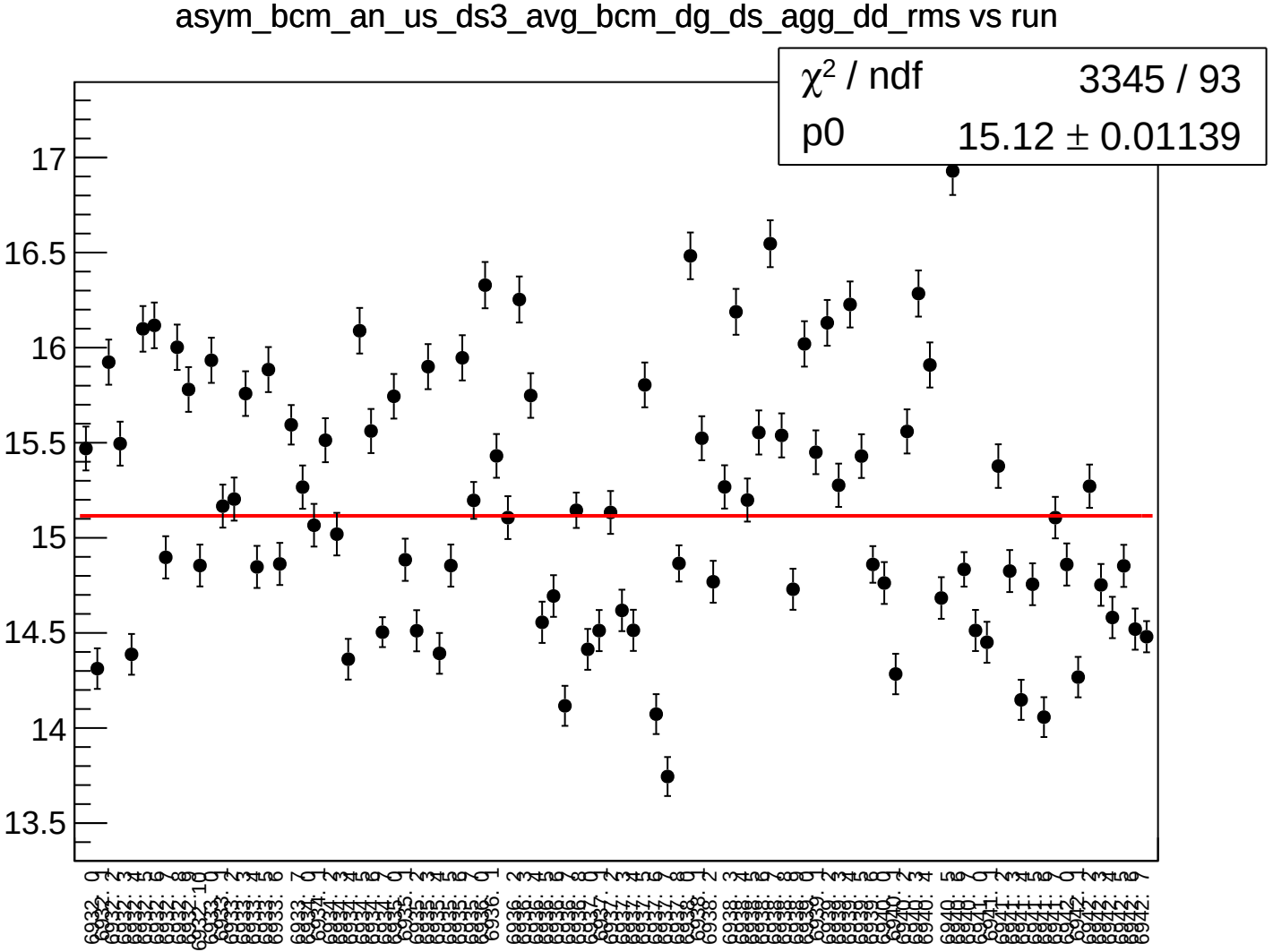

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 78.74 / 93
p0 −28.34 ± 22.79
pull
Entries 94
Mean −132
Std Dev 0

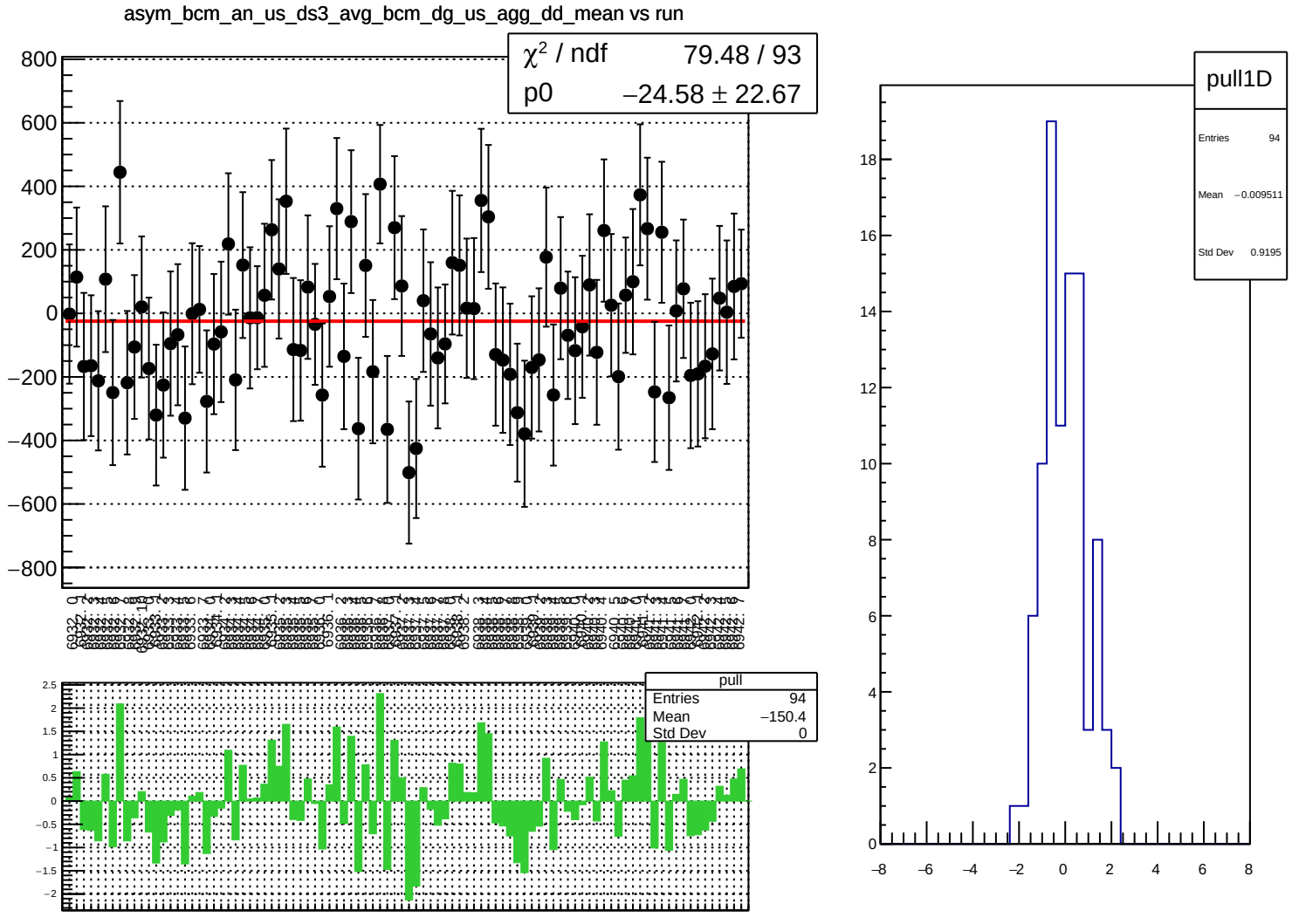

pull1D
Entries 94
Mean −0.008345
Std Dev 0.9152

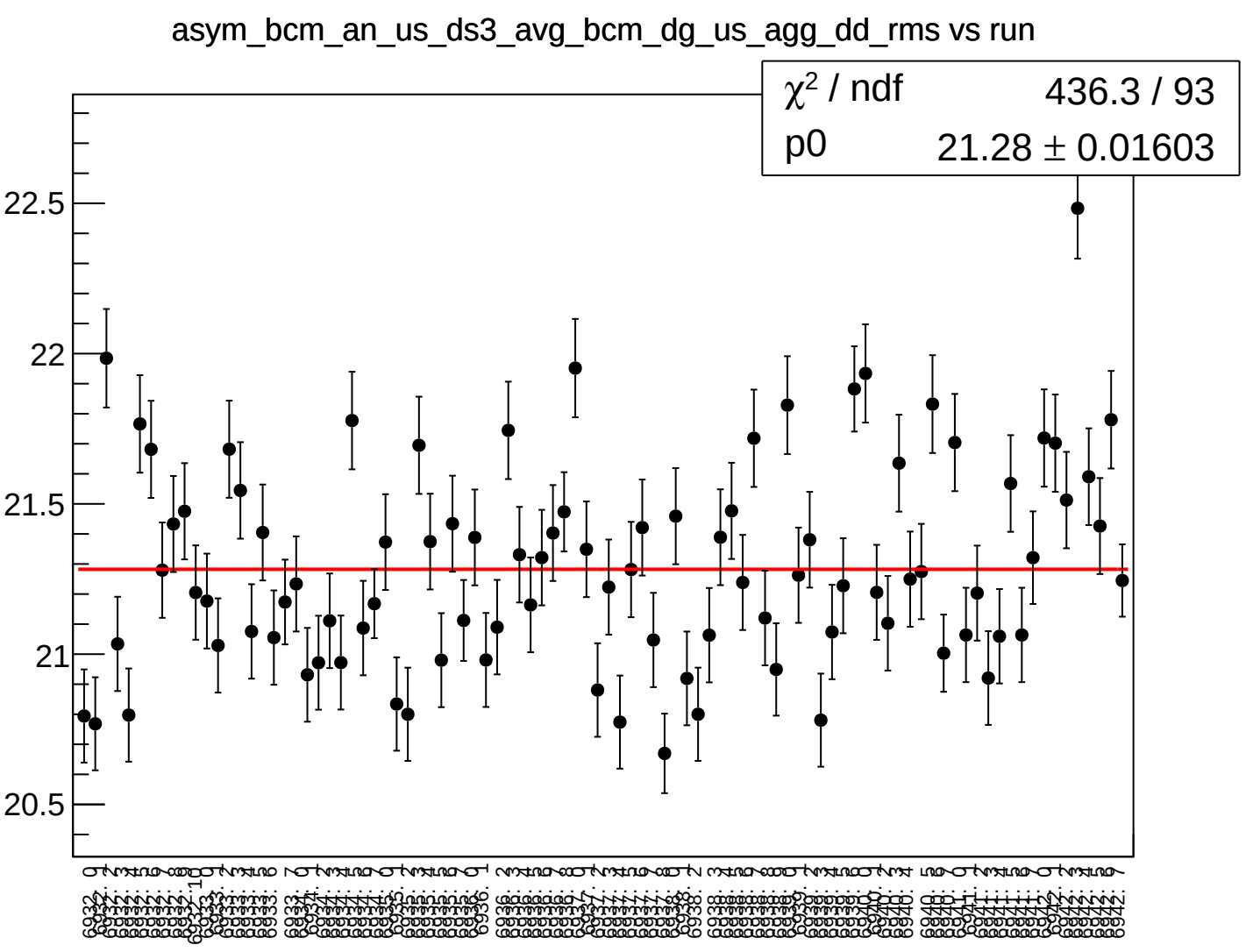

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 473.8 / 93
p0 21.4 ± 0.01611
23
22.5
22
21.5
21
20.5

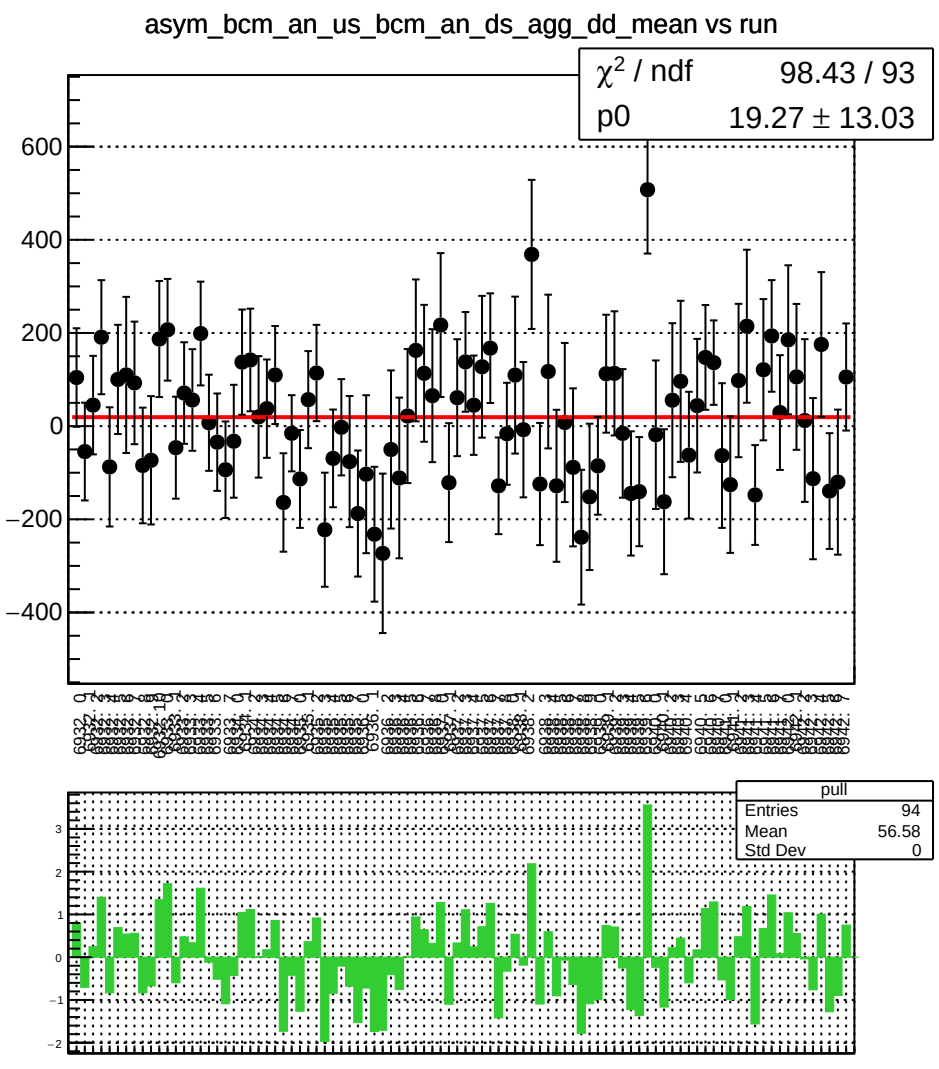

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 130.4 / 93
p0 −12.98 ± 16.11
800
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean −4802
Std Dev 0
4
3
2
1
0
−1
−2

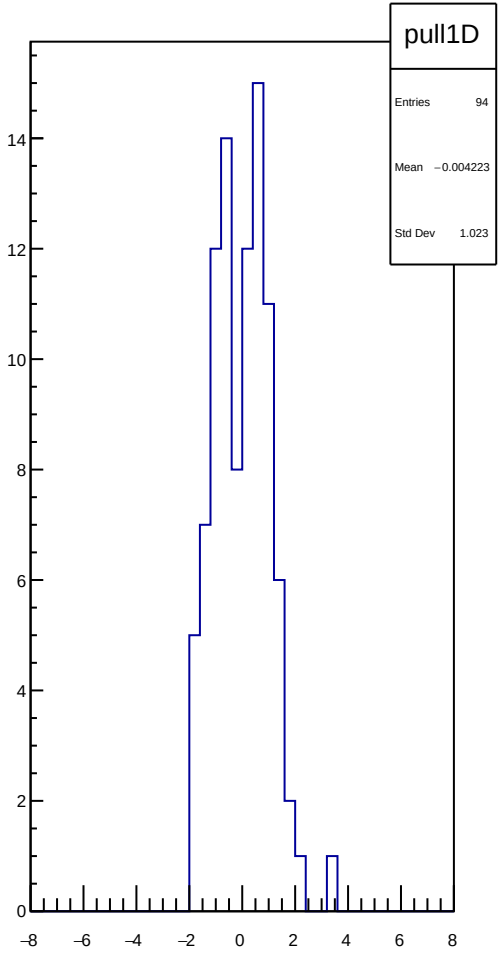

pull1D
Entries 94
Mean 0.0007725
Std Dev 1.178
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

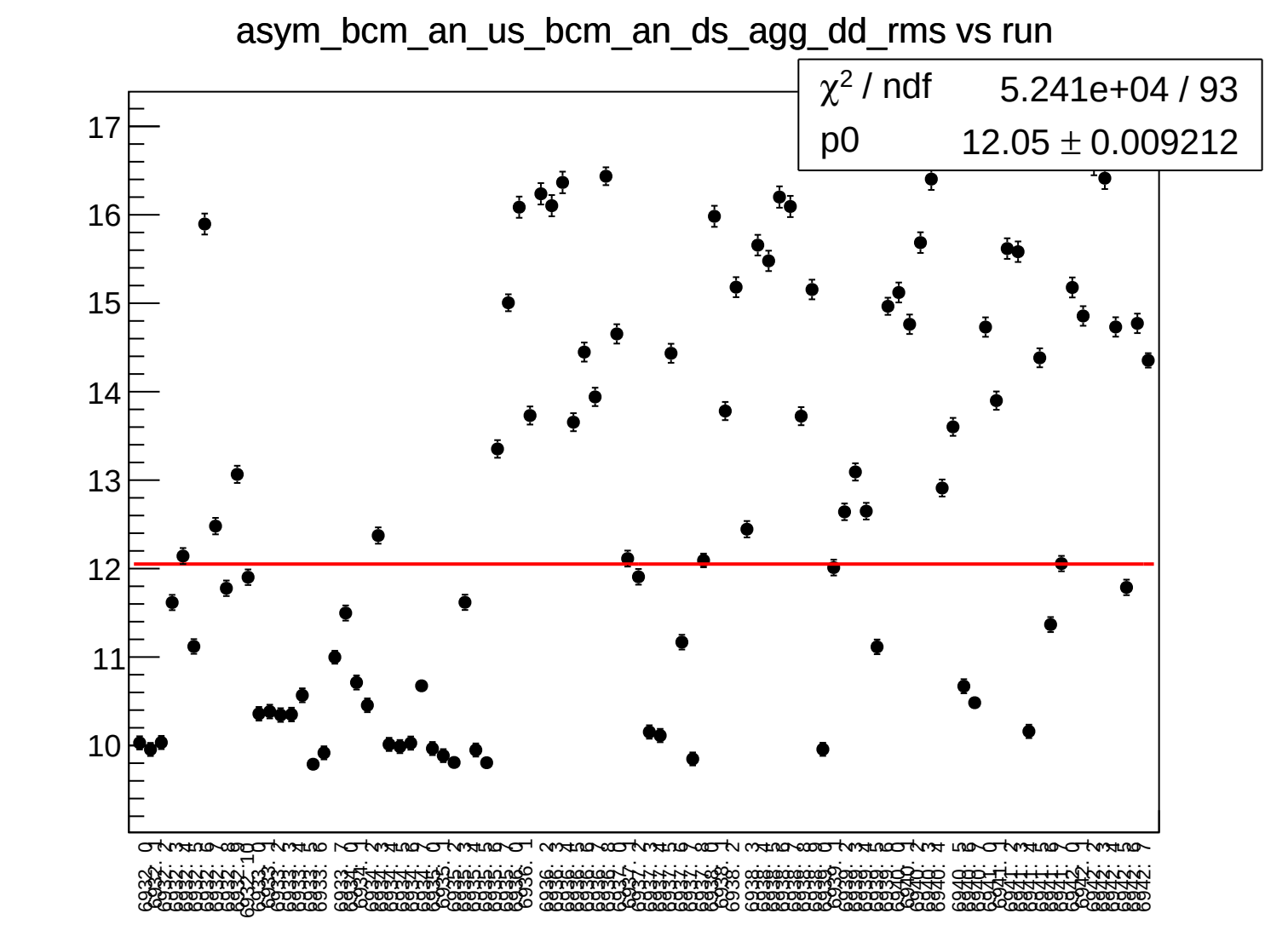

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3345 / 93
p0 15.12 ± 0.01139
17
16.5
16
15.5
15
14.5
14
13.5

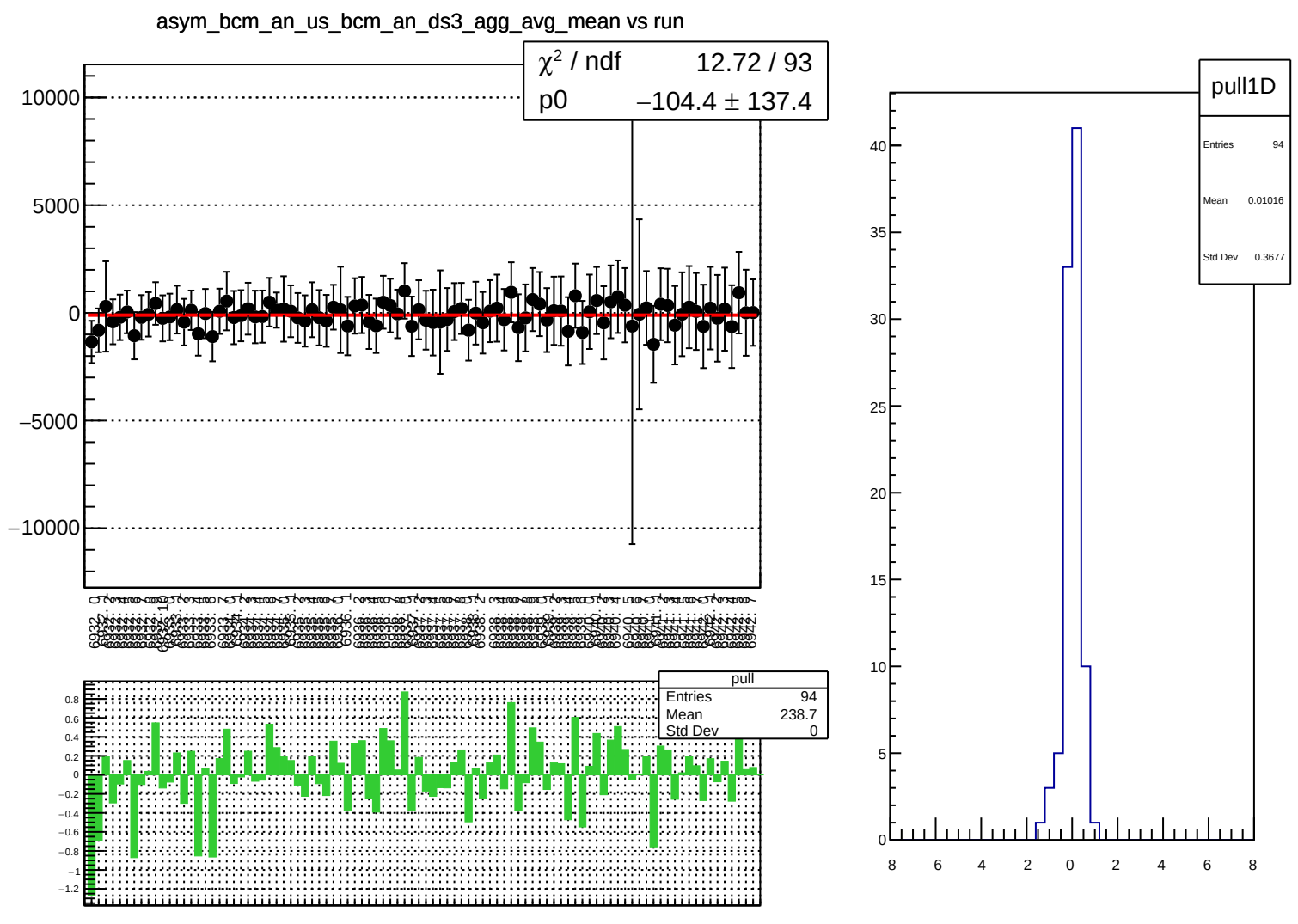

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.48 / 93
p0 −24.58 ± 22.67
pull
Entries 94
Mean −150.4
Std Dev 0
pull1D
Entries 94
Mean −0.009511
Std Dev 0.9195

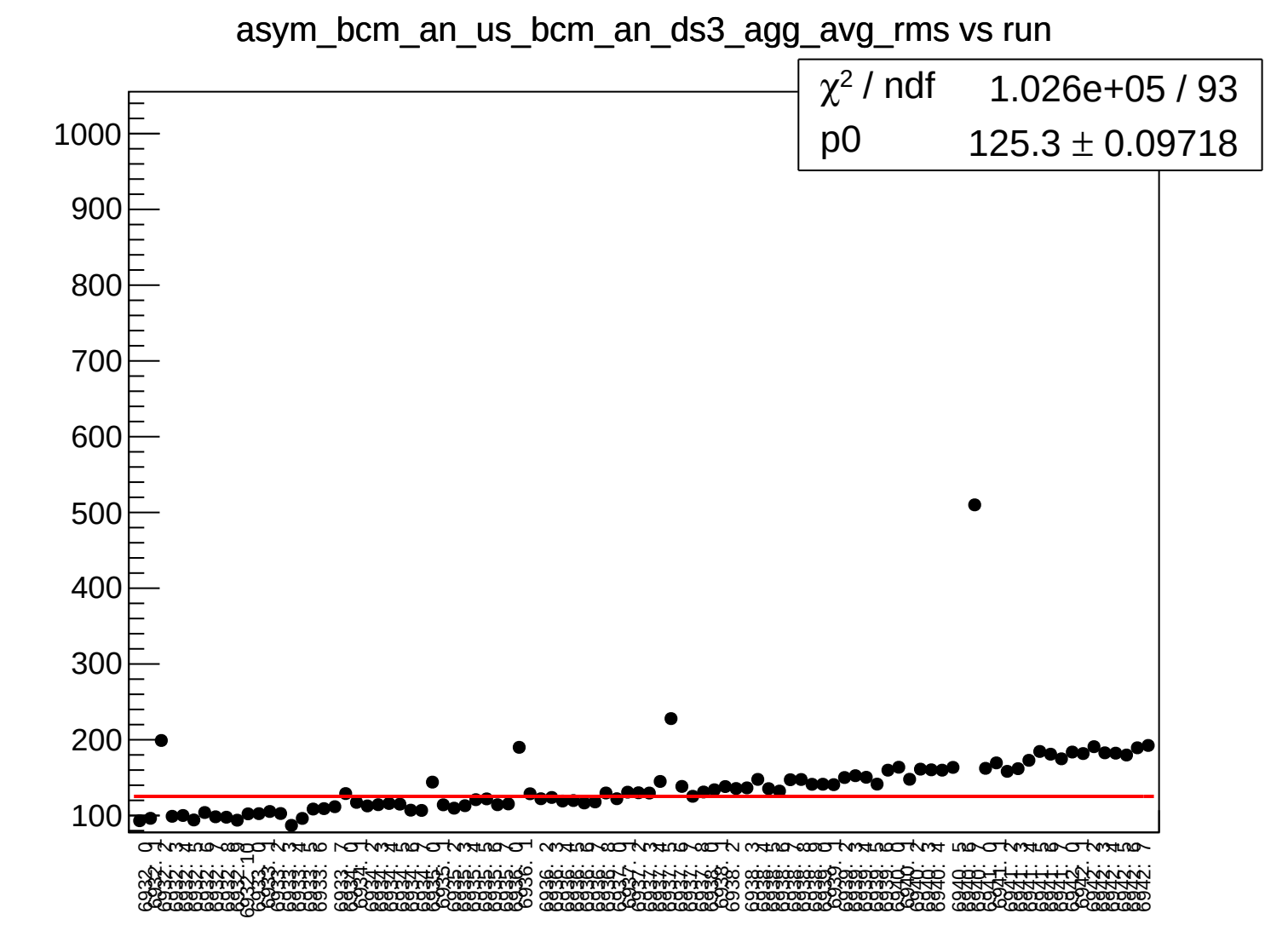

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 436.3 / 93
p0 21.28 ± 0.01603
22.5
22
21.5
21
20.5

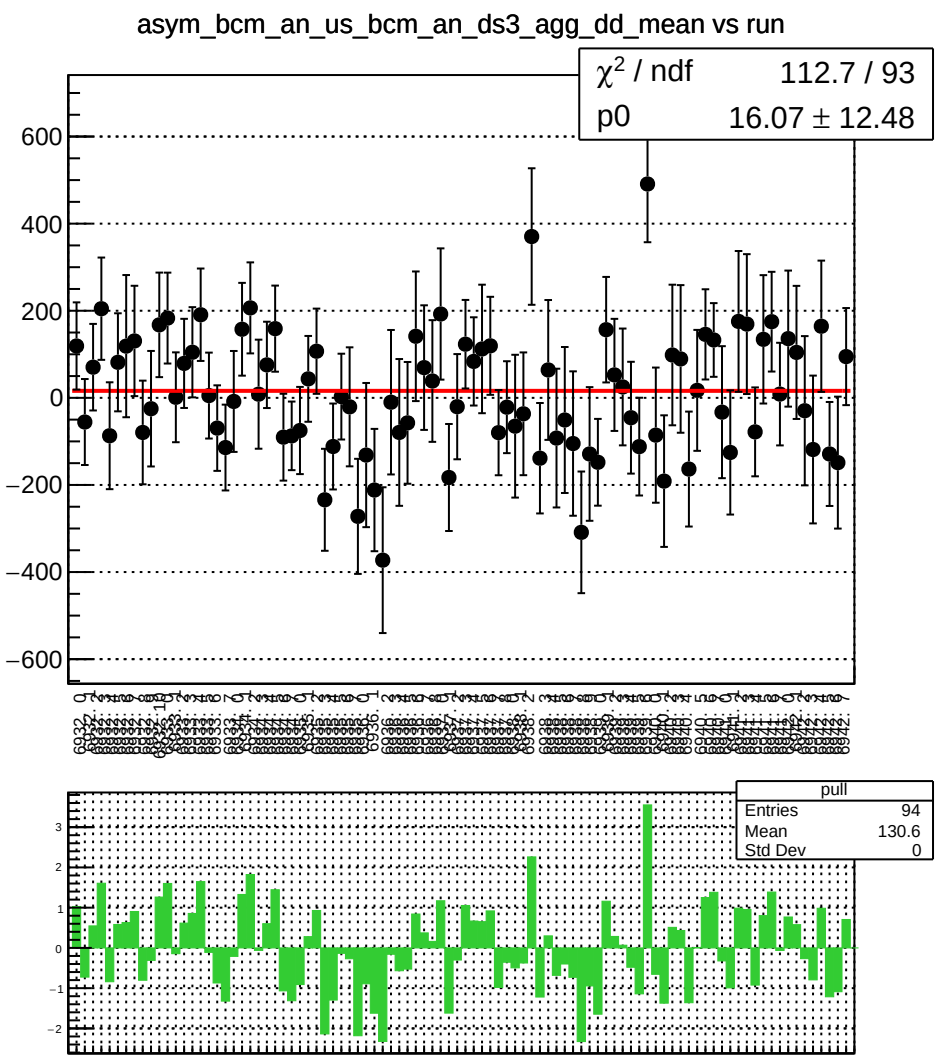

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 98.43 / 93
p0 19.27 ± 13.03
pull
Entries 94
Mean 56.58
Std Dev 0

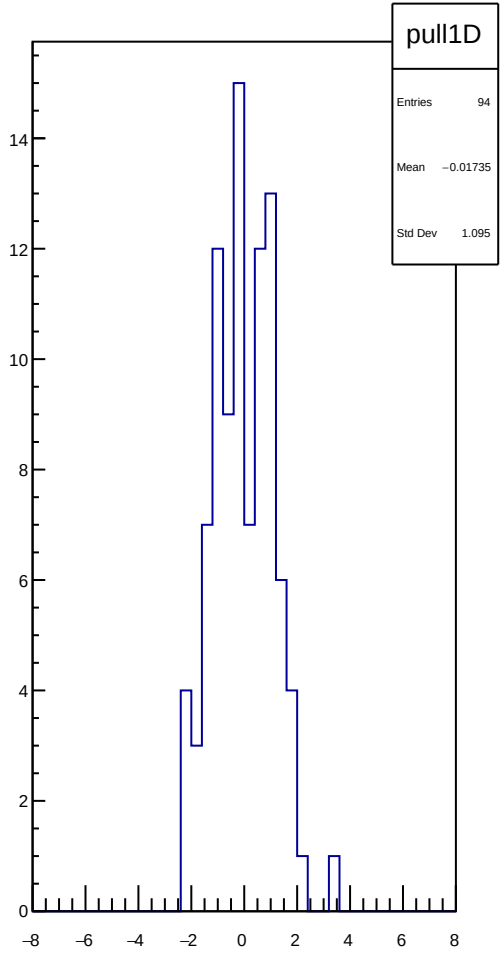

pull1D
Entries 94
Mean −0.004223
Std Dev 1.023

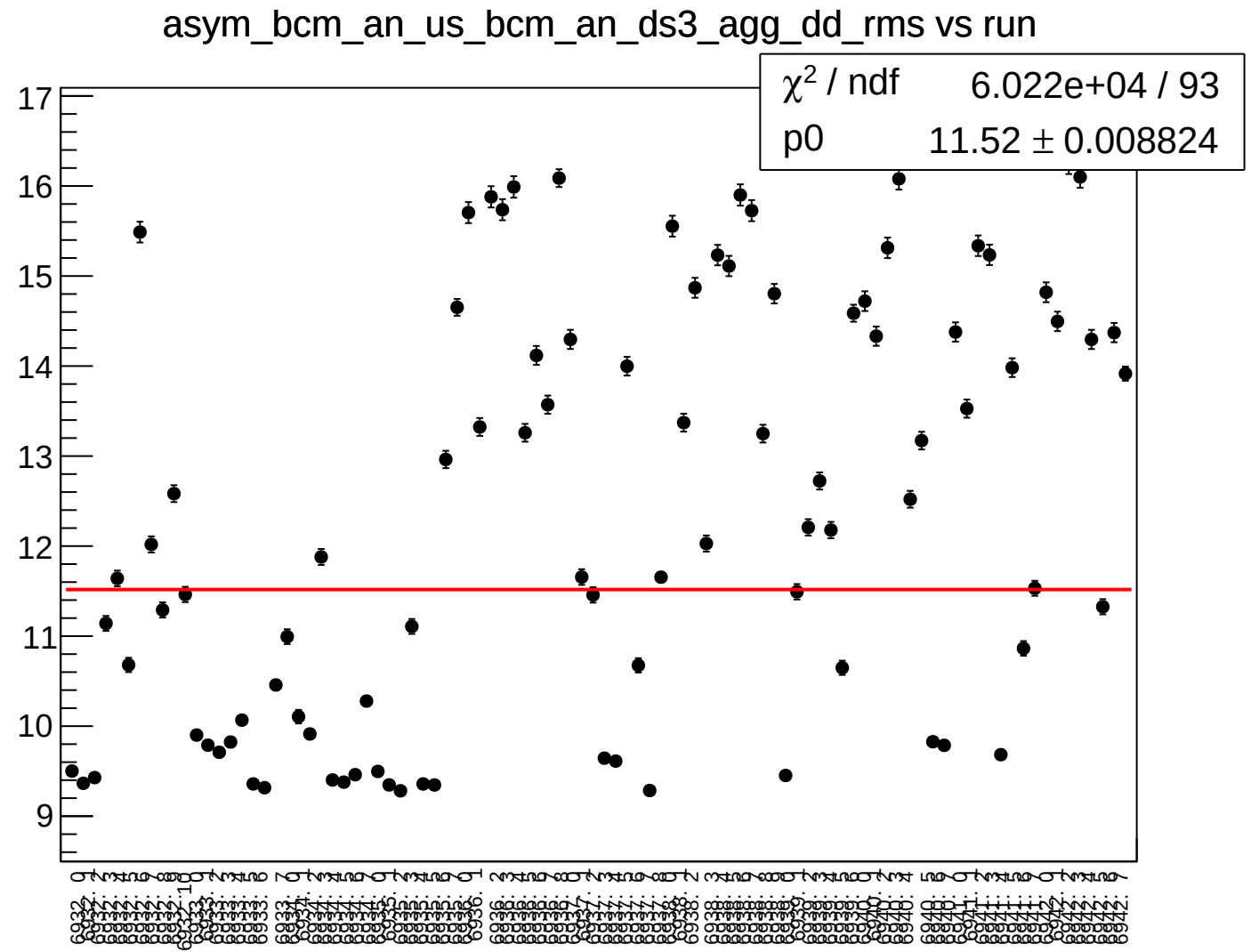

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5.241e+04 / 93
p0 12.05 ± 0.009212
17
16
15
14
13
12
11
10

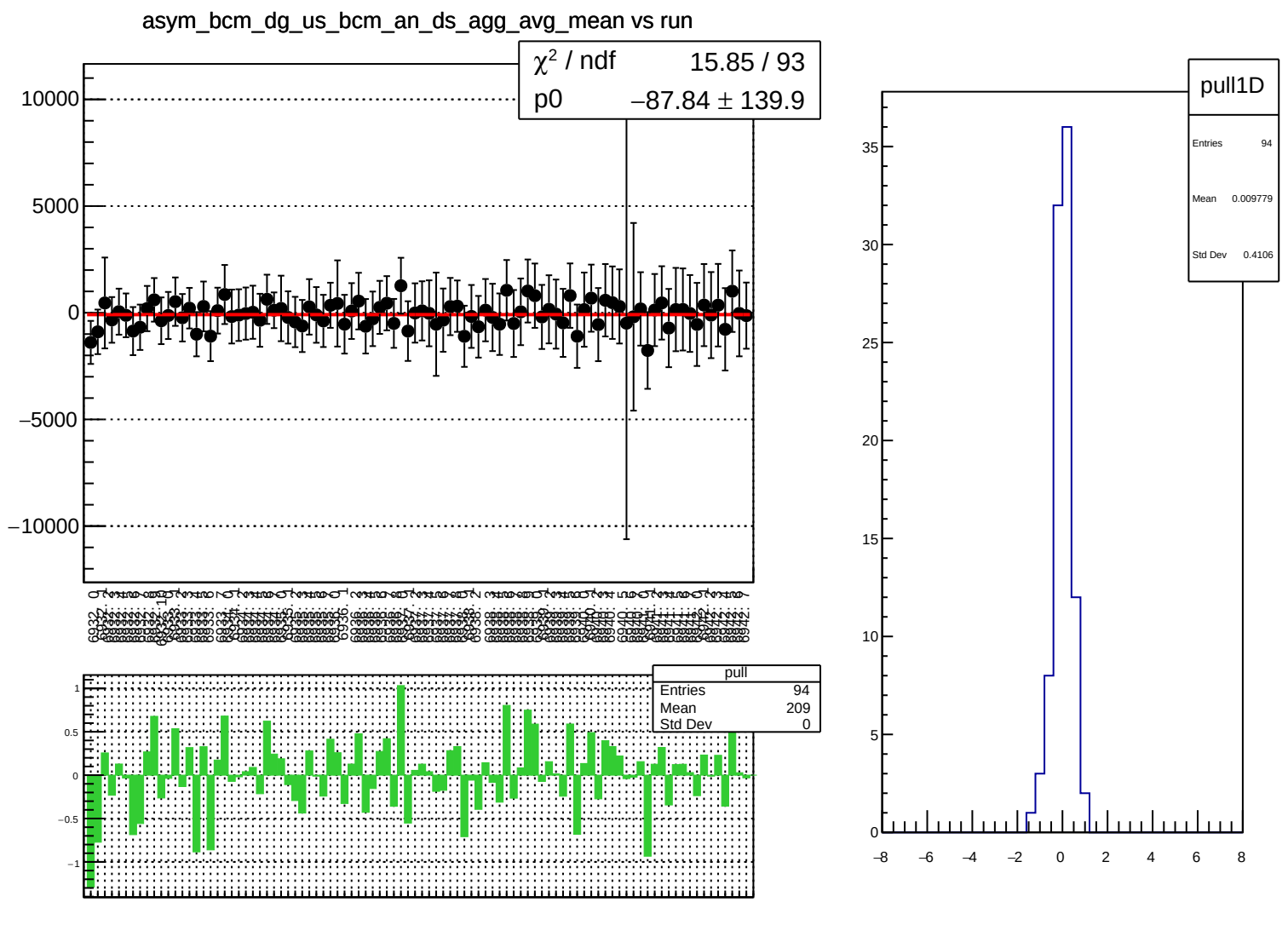

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.72 / 93
p0 −104.4 ± 137.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 238.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.01016
Std Dev 0.3677
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

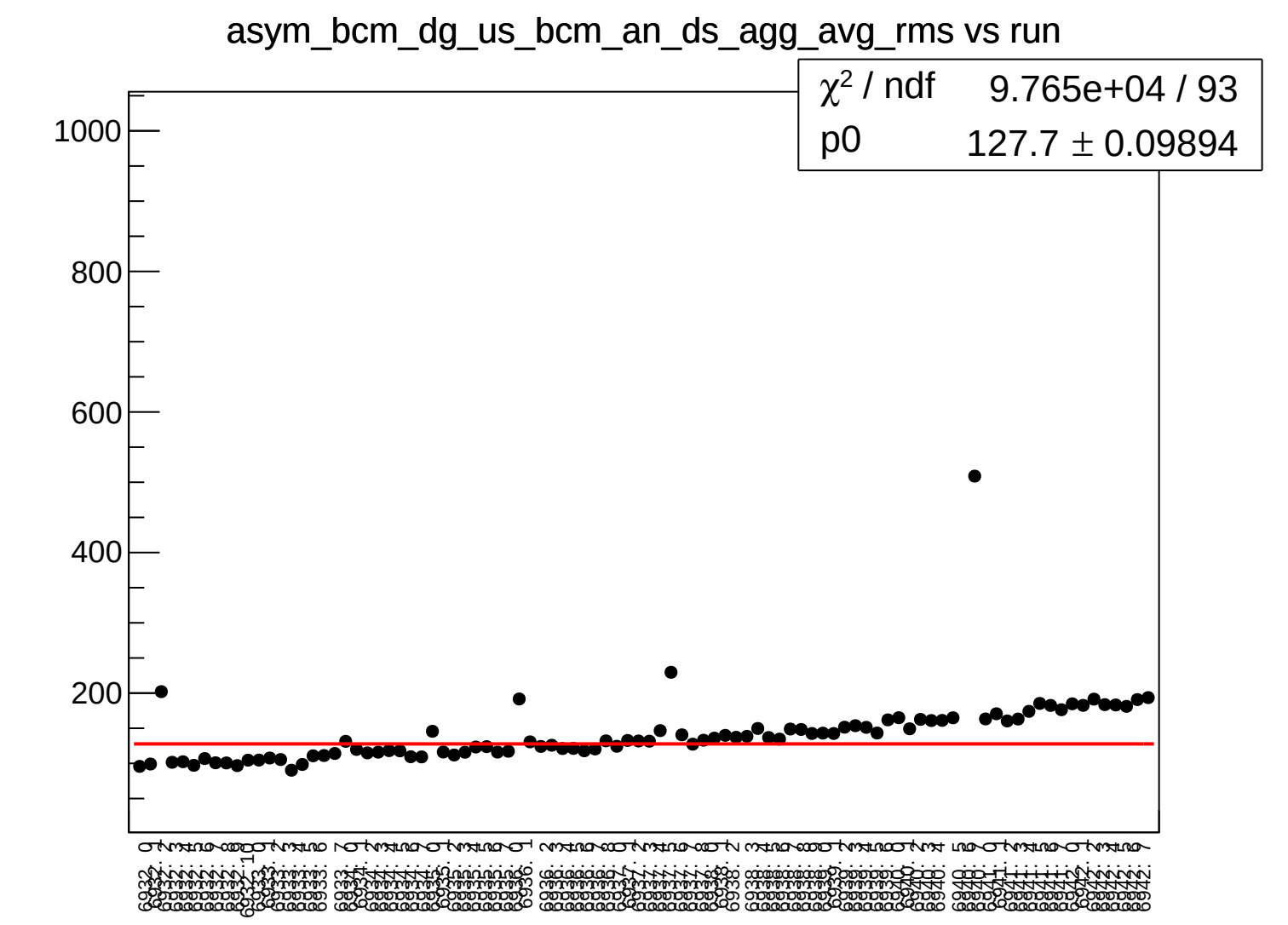

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.026e+05 / 93
p0 125.3 ± 0.09718
1000
900
800
700
600
500
400
300
200
100

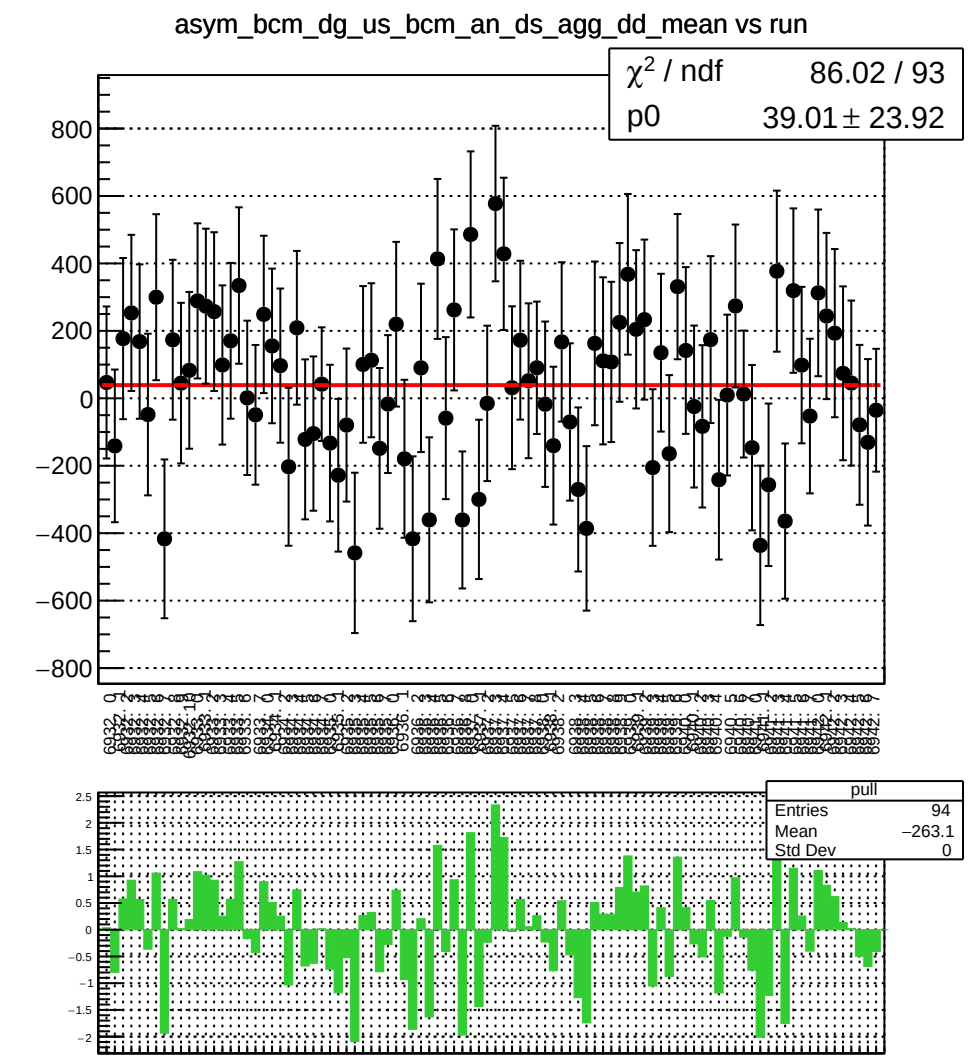

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 112.7 / 93
p0 16.07 ± 12.48
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean 130.6
Std Dev 0
3
2
1
0
−1
−2

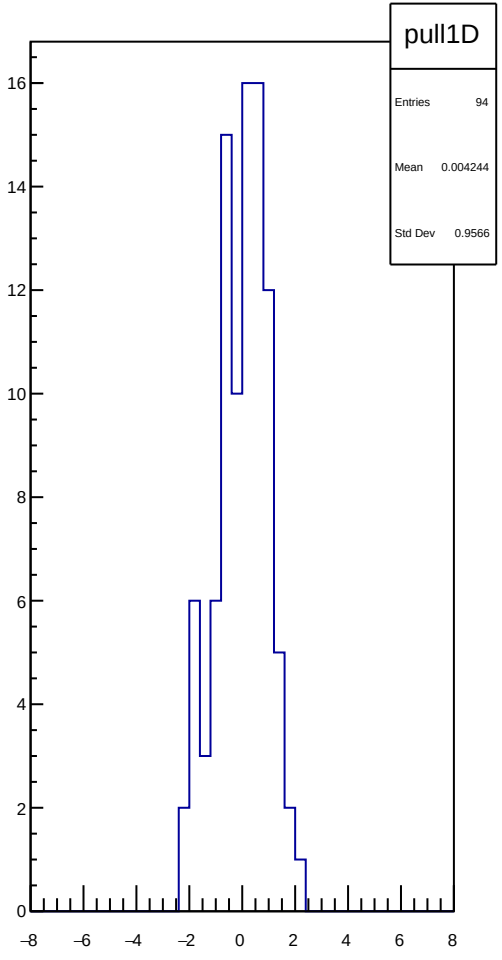

pull1D
Entries 94
Mean −0.01735
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

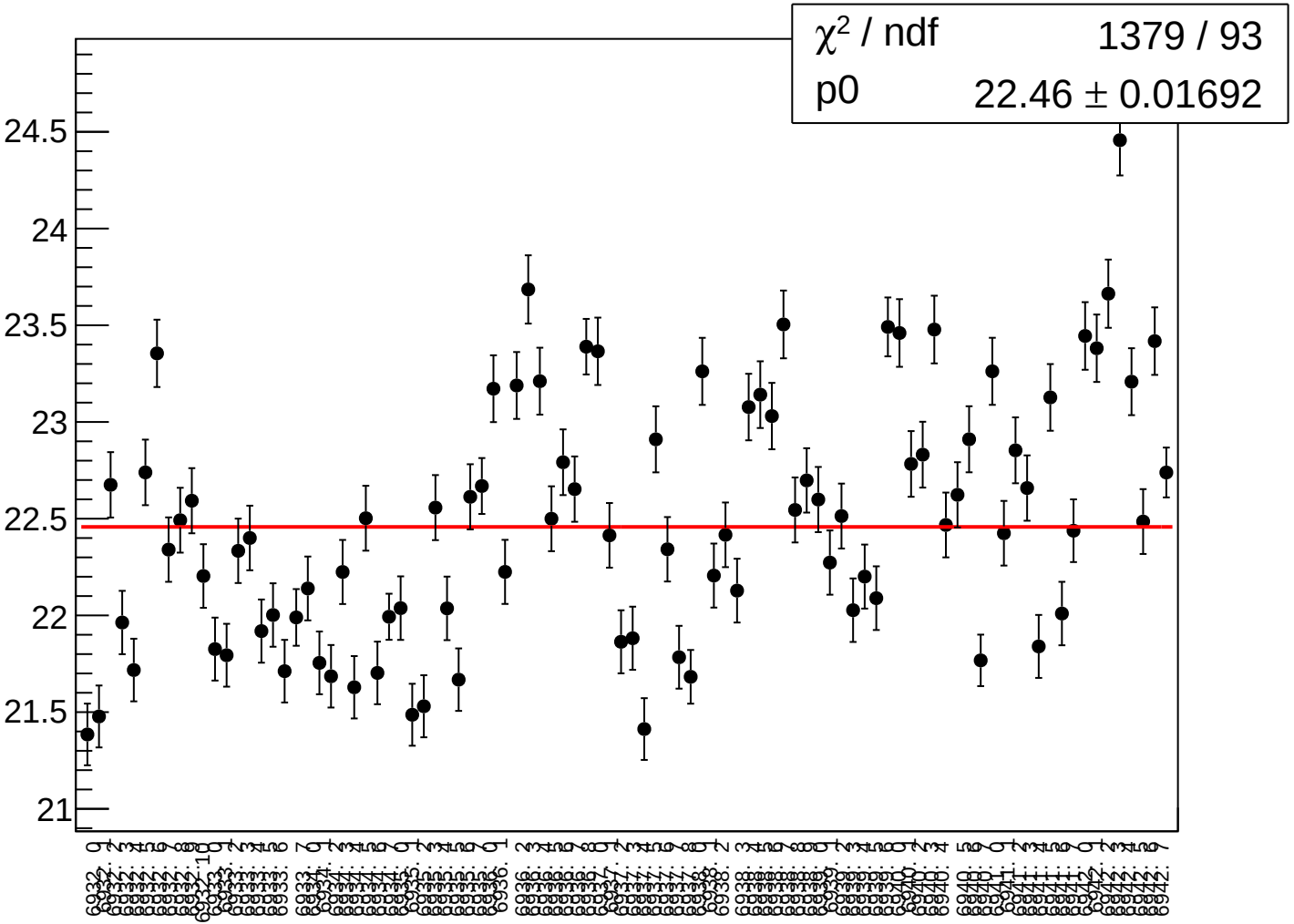

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 6.022e+04 / 93
p0 11.52 ± 0.008824
17
16
15
14
13
12
11
10
9

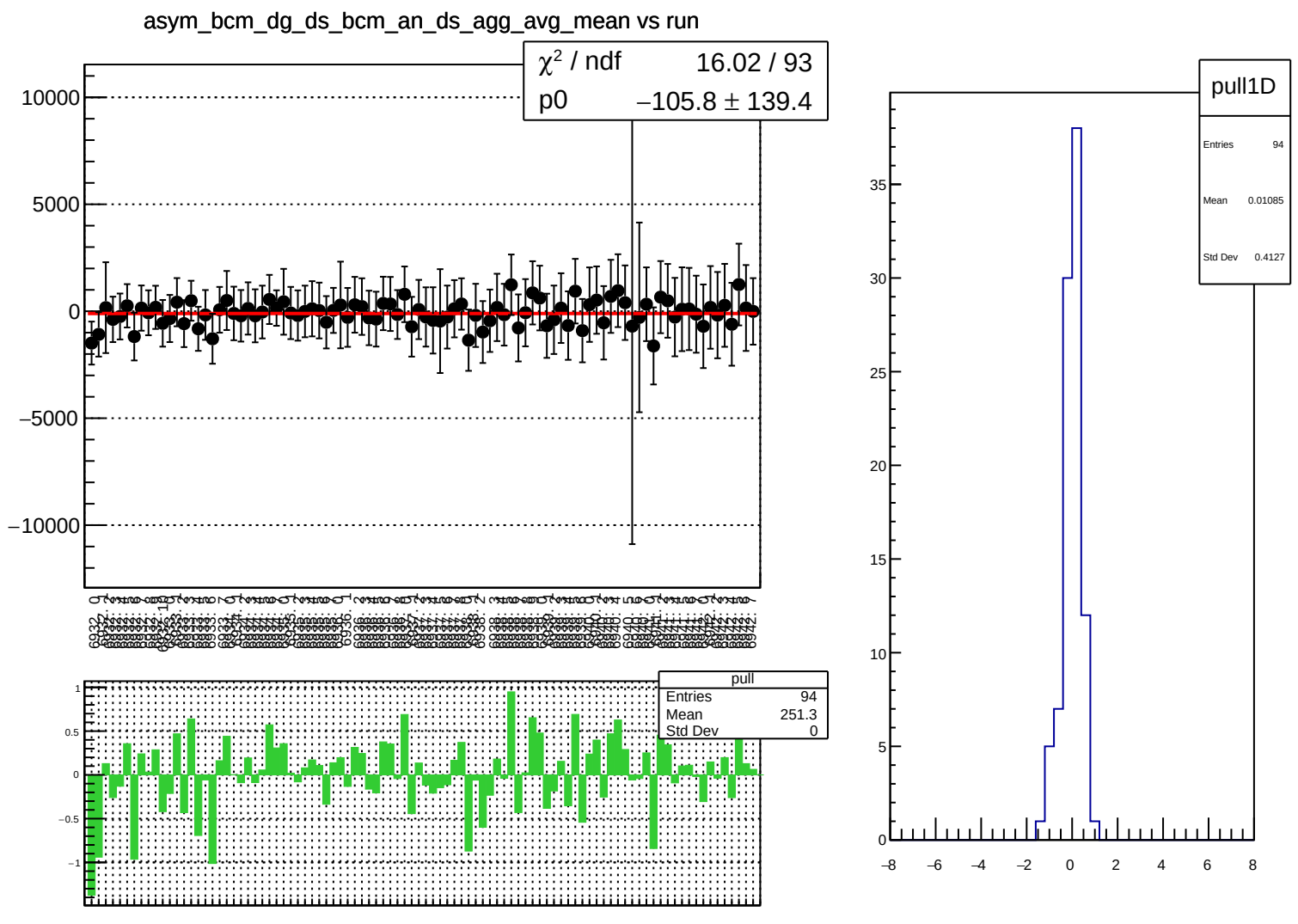

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.85 / 93
p0 −87.84 ± 139.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 209
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.009779
Std Dev 0.4106
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

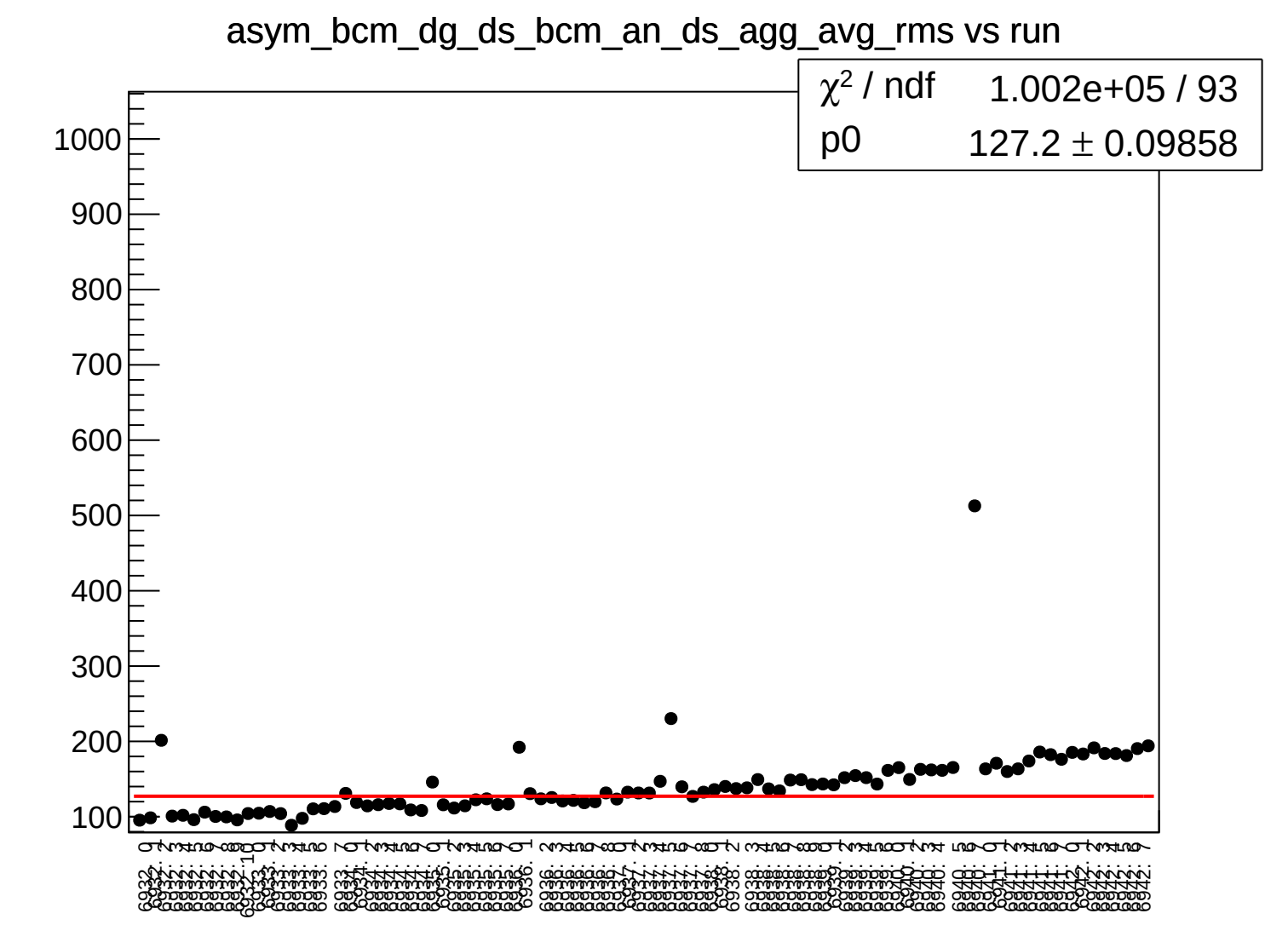

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.765e+04 / 93
p0 127.7 ± 0.09894
1000
800
600
400
200

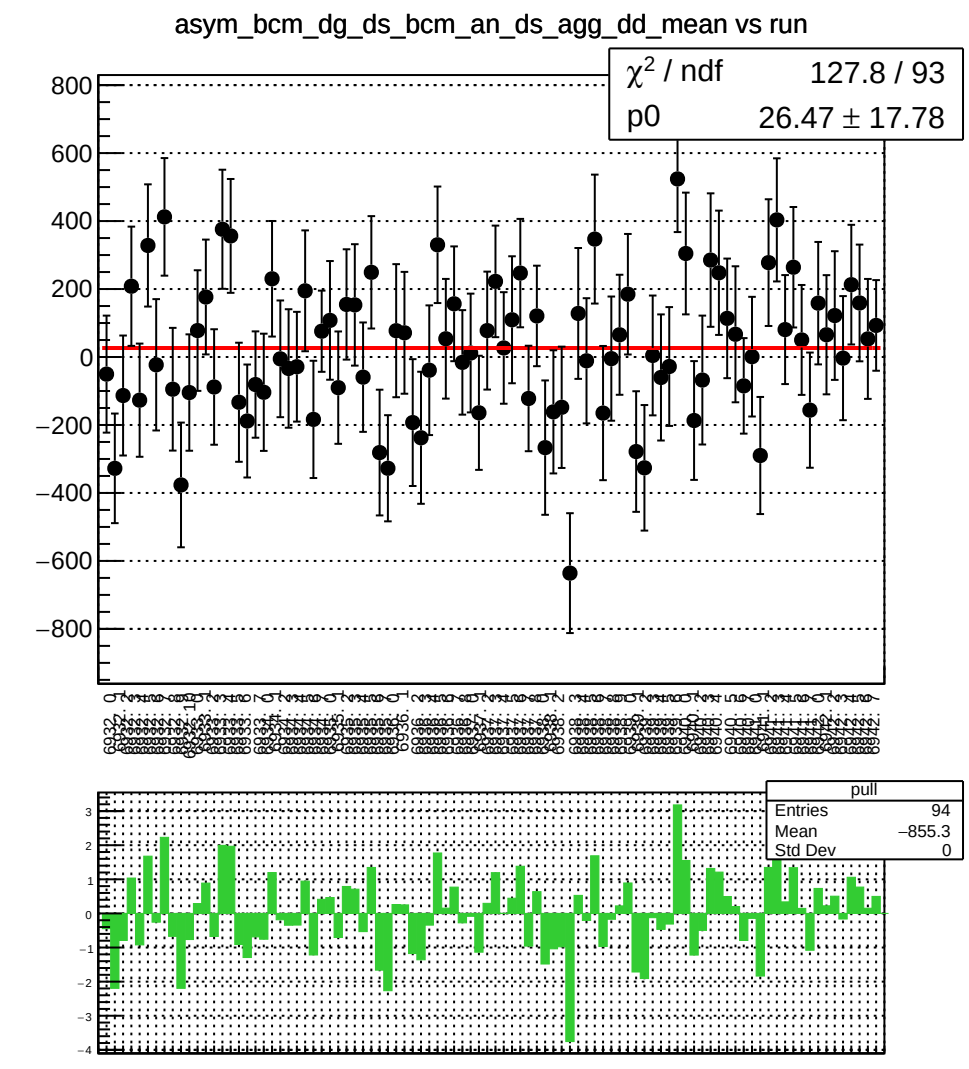

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 86.02 / 93
p0 39.01 ± 23.92
pull
Entries 94
Mean −263.1
Std Dev 0

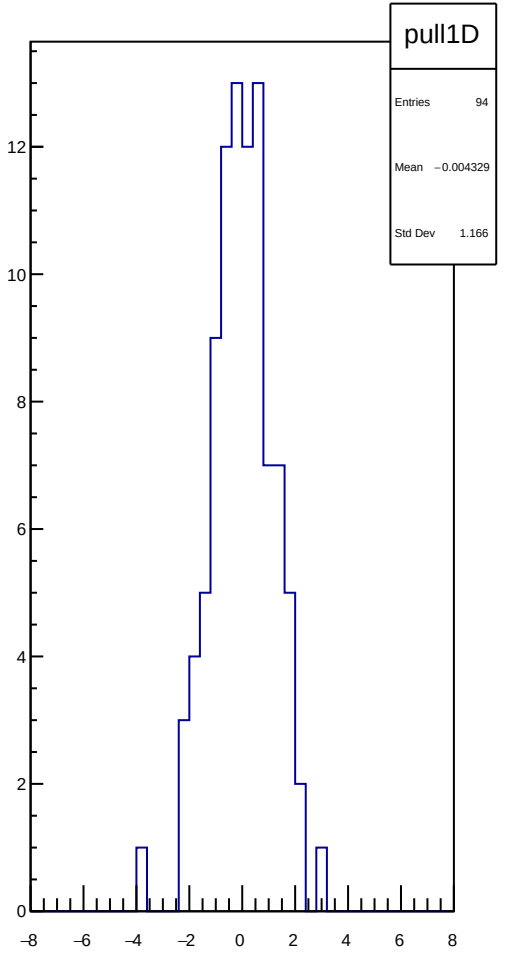

pull1D
Entries 94
Mean 0.004244
Std Dev 0.9566

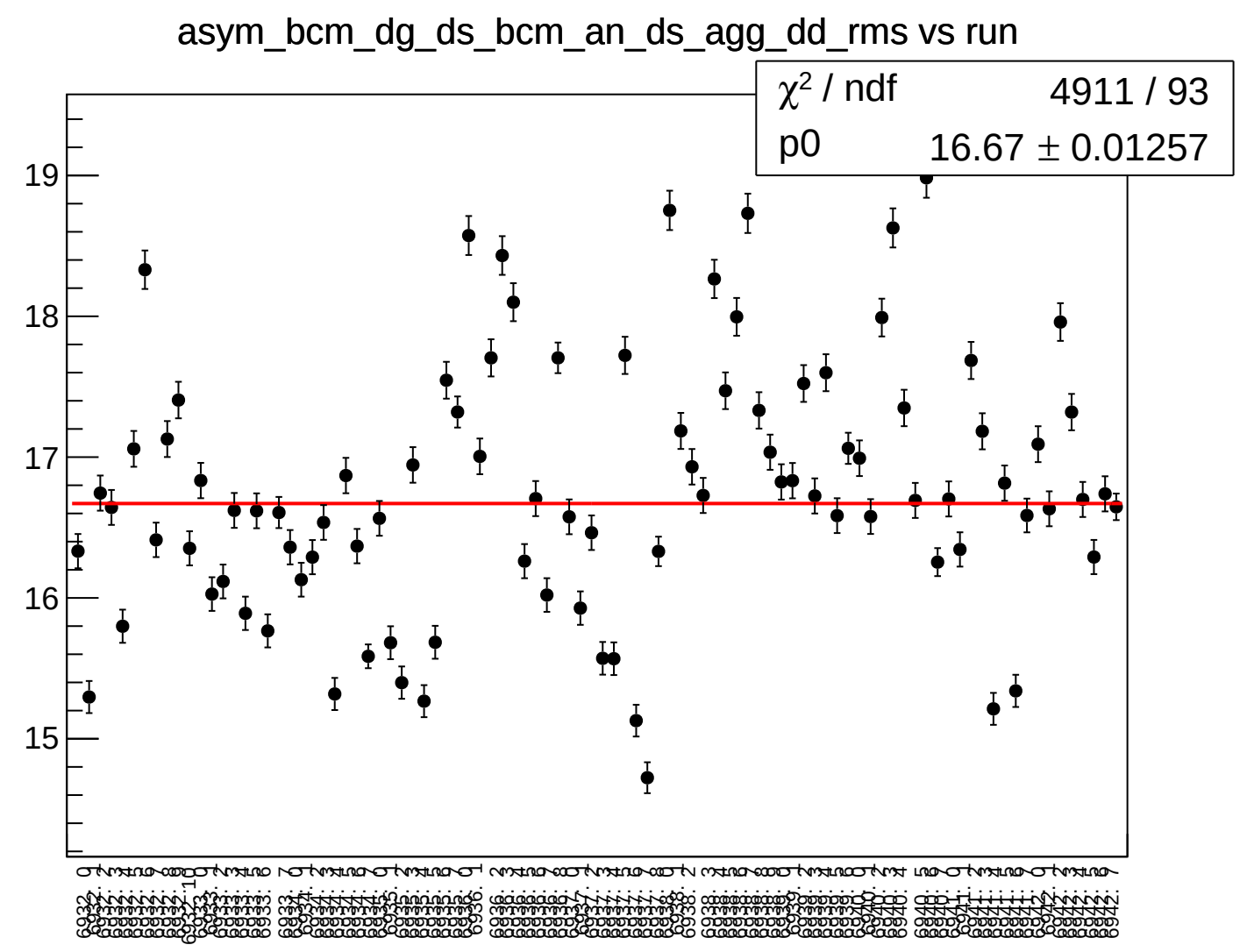

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1379 / 93
p0 22.46 ± 0.01692
24.5
24
23.5
23
22.5
22
21.5
21

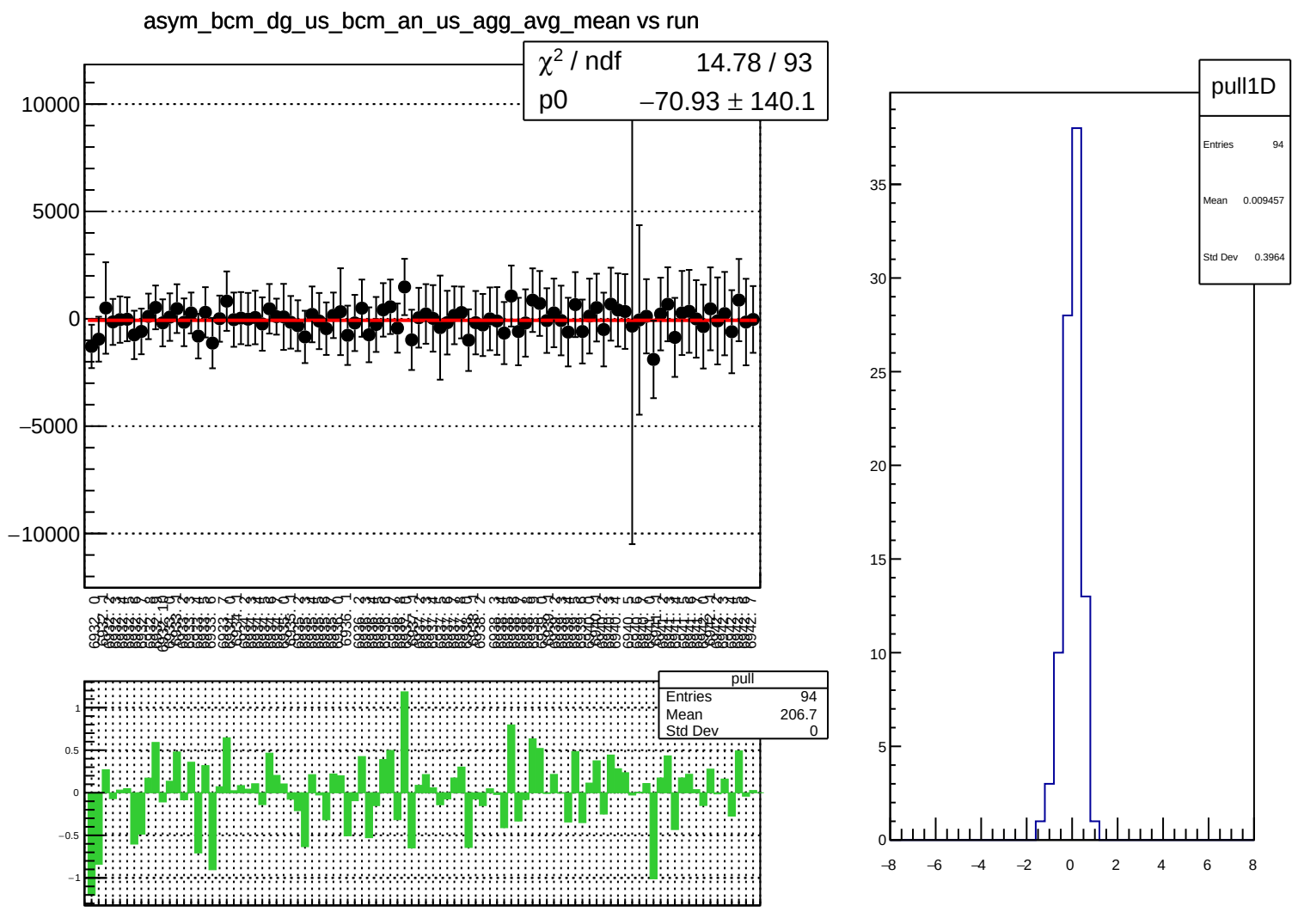

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.02 / 93
p0 −105.8 ± 139.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 251.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.01085
Std Dev 0.4127
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

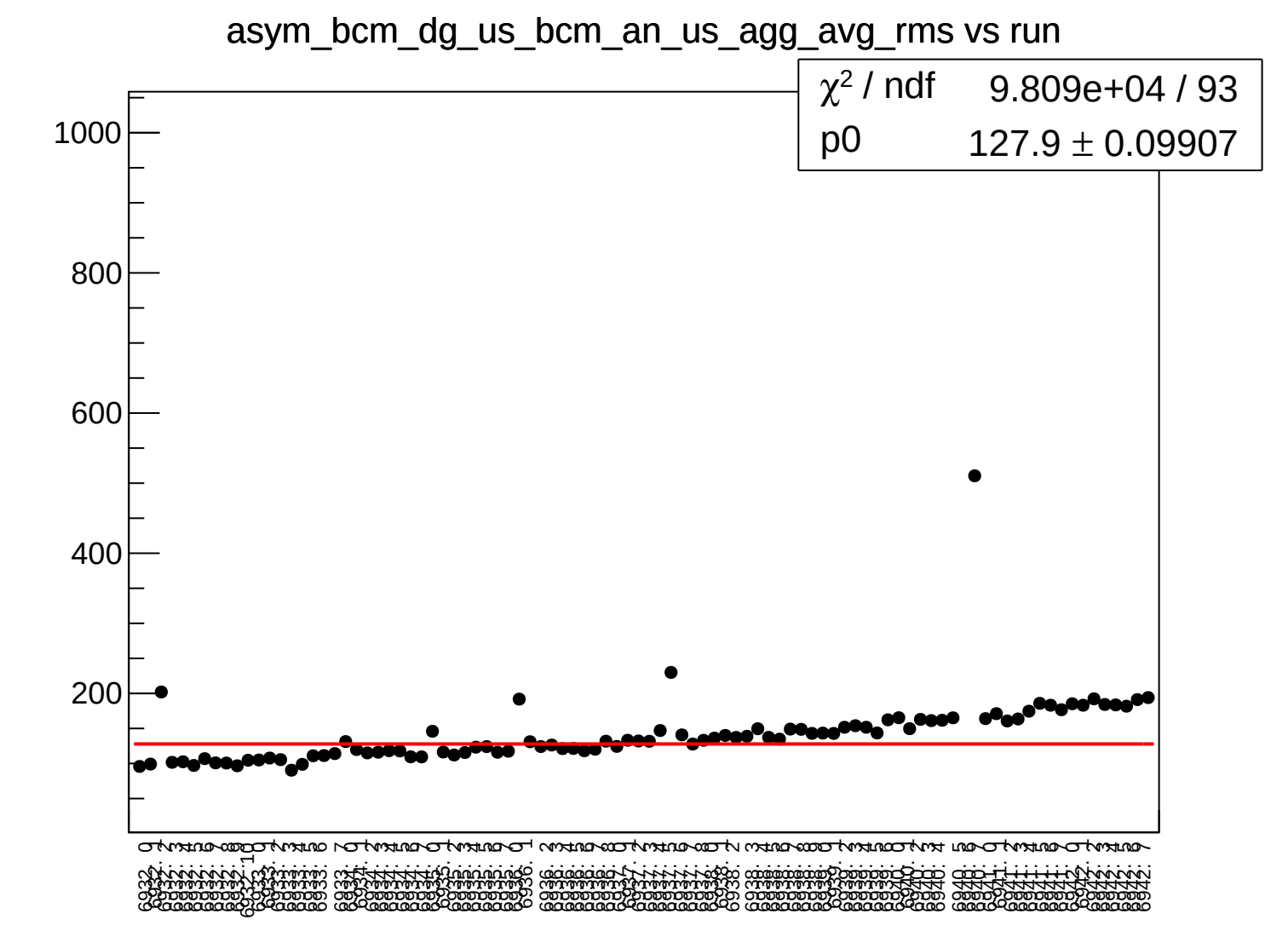

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.002e+05 / 93
p0 127.2 ± 0.09858
1000
900
800
700
600
500
400
300
200
100

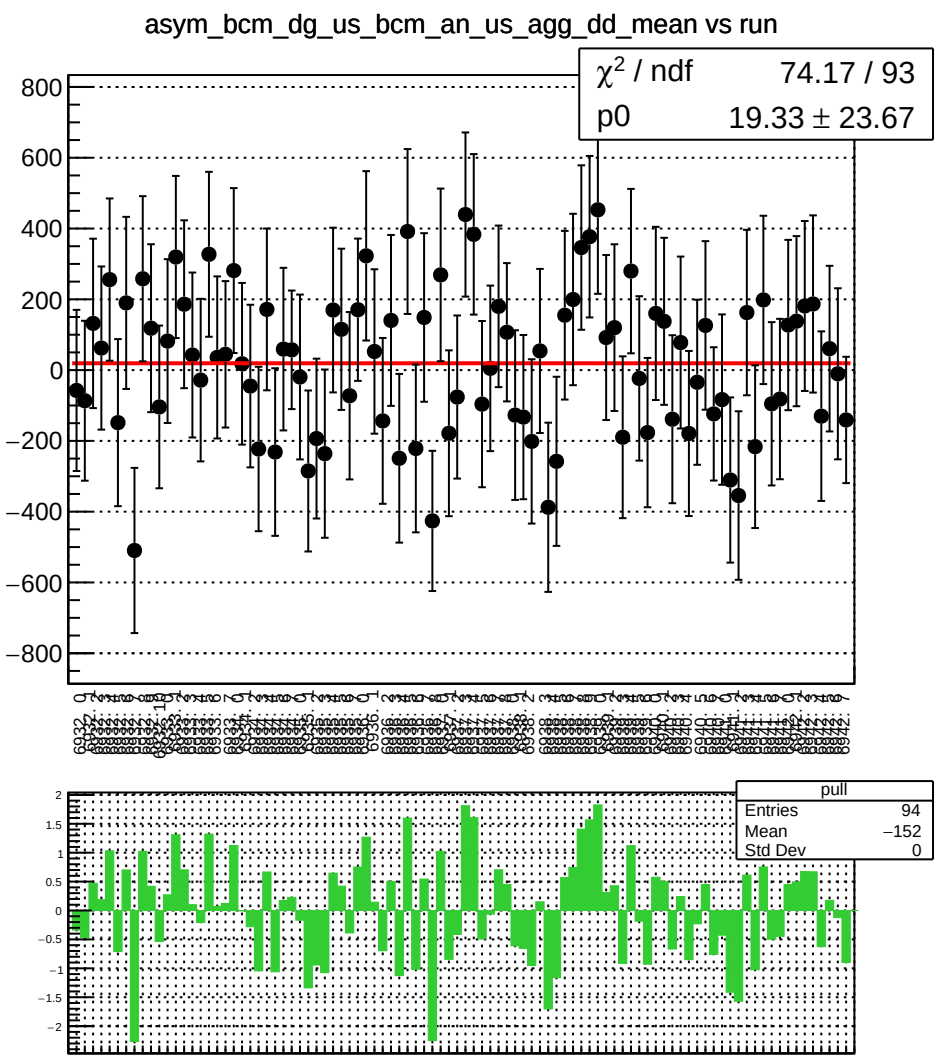

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 127.8 / 93
p0 26.47 ± 17.78
pull
Entries 94
Mean −855.3
Std Dev 0

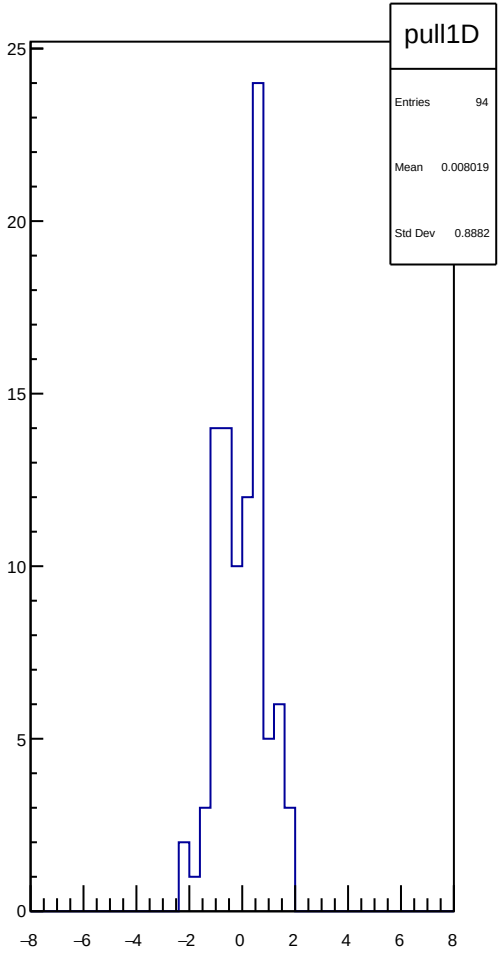

pull1D
Entries 94
Mean −0.004329
Std Dev 1.166

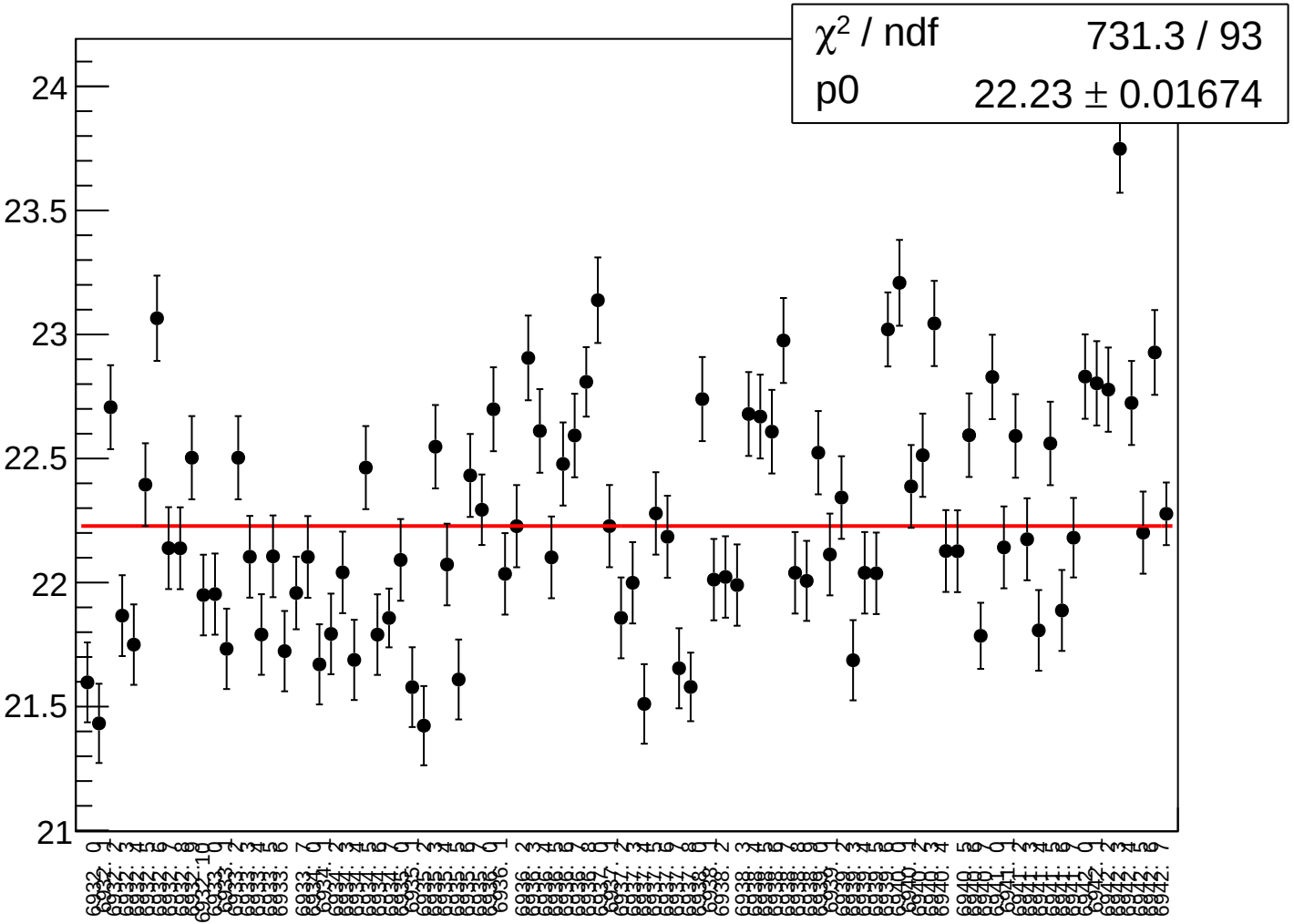

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4911 / 93
p0 16.67 ± 0.01257
19
18
17
16
15

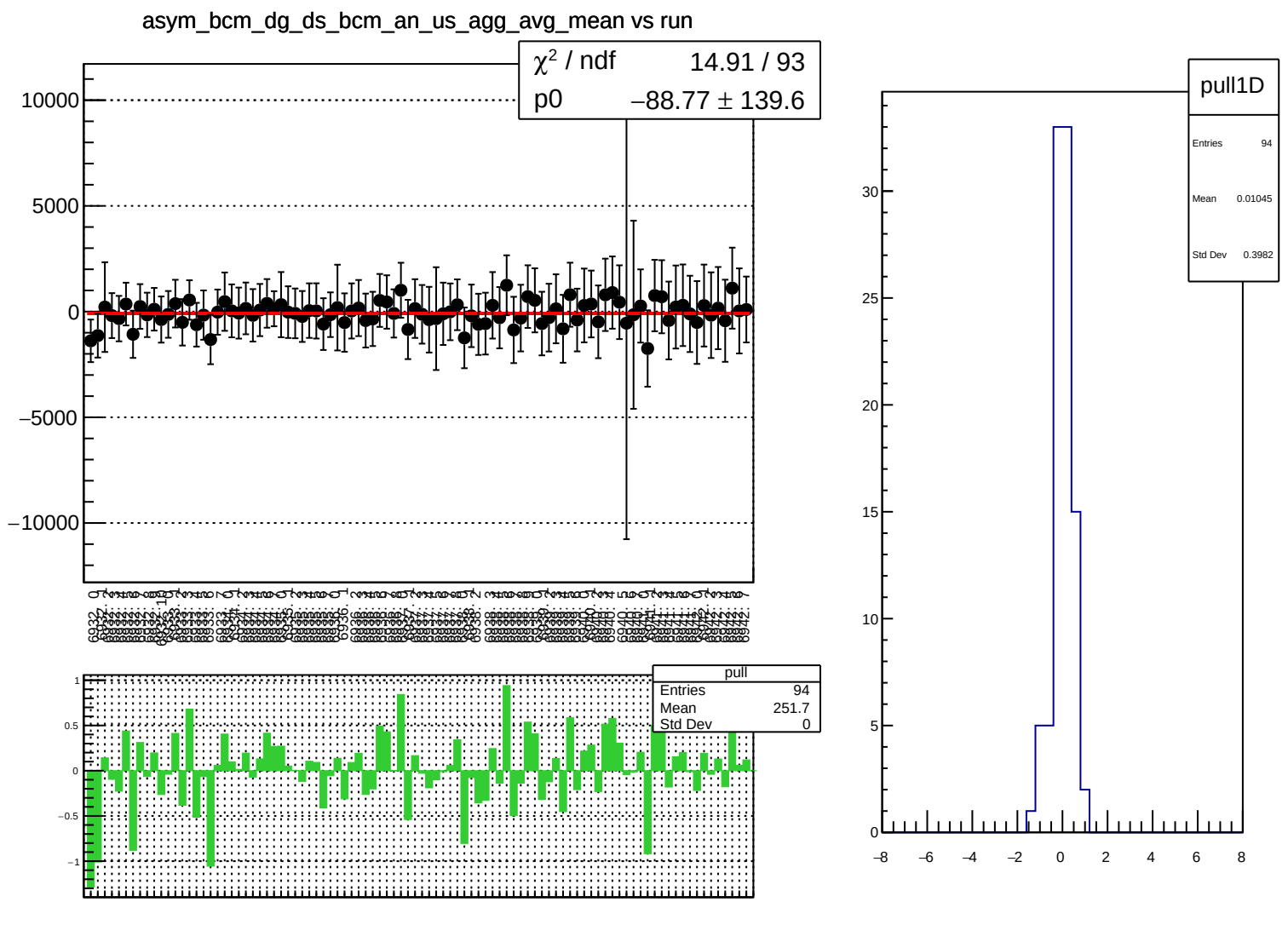

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.78 / 93
p0 −70.93 ± 140.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 206.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.009457
Std Dev 0.3964
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

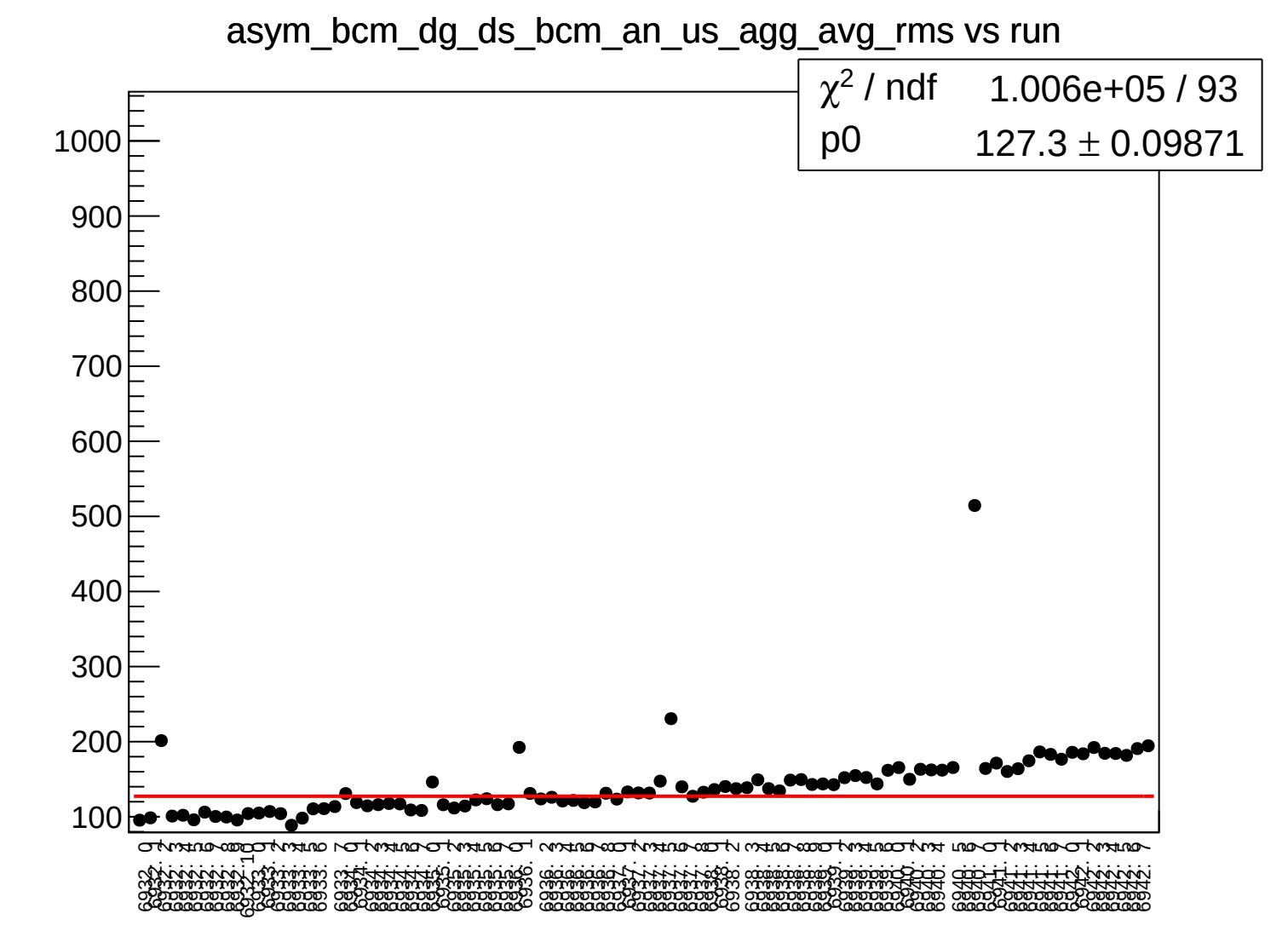

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.809e+04 / 93
p0 127.9 ± 0.09907
1000
800
600
400
200

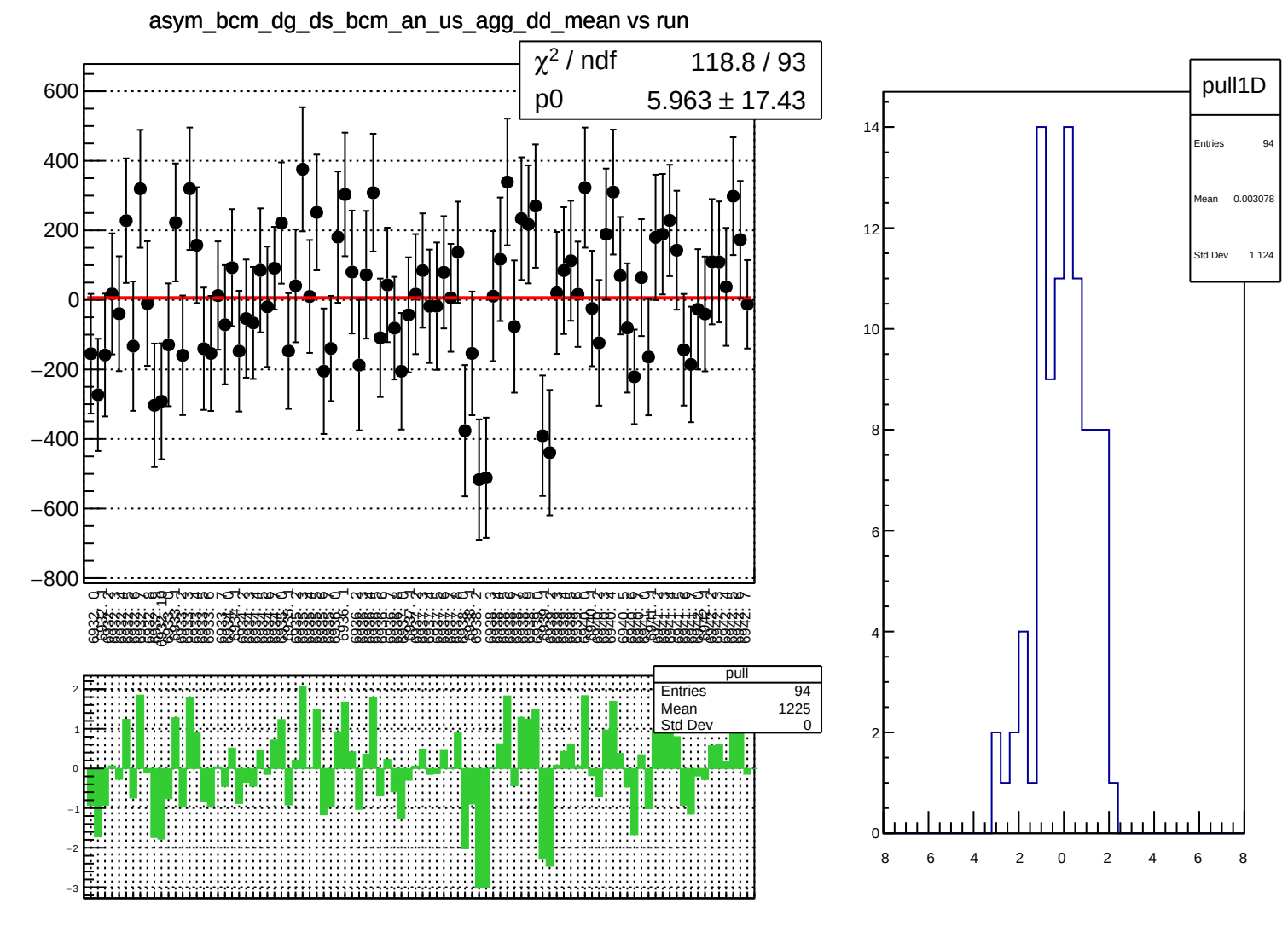

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 74.17 / 93
p0 19.33 ± 23.67
pull
Entries 94
Mean −152
Std Dev 0

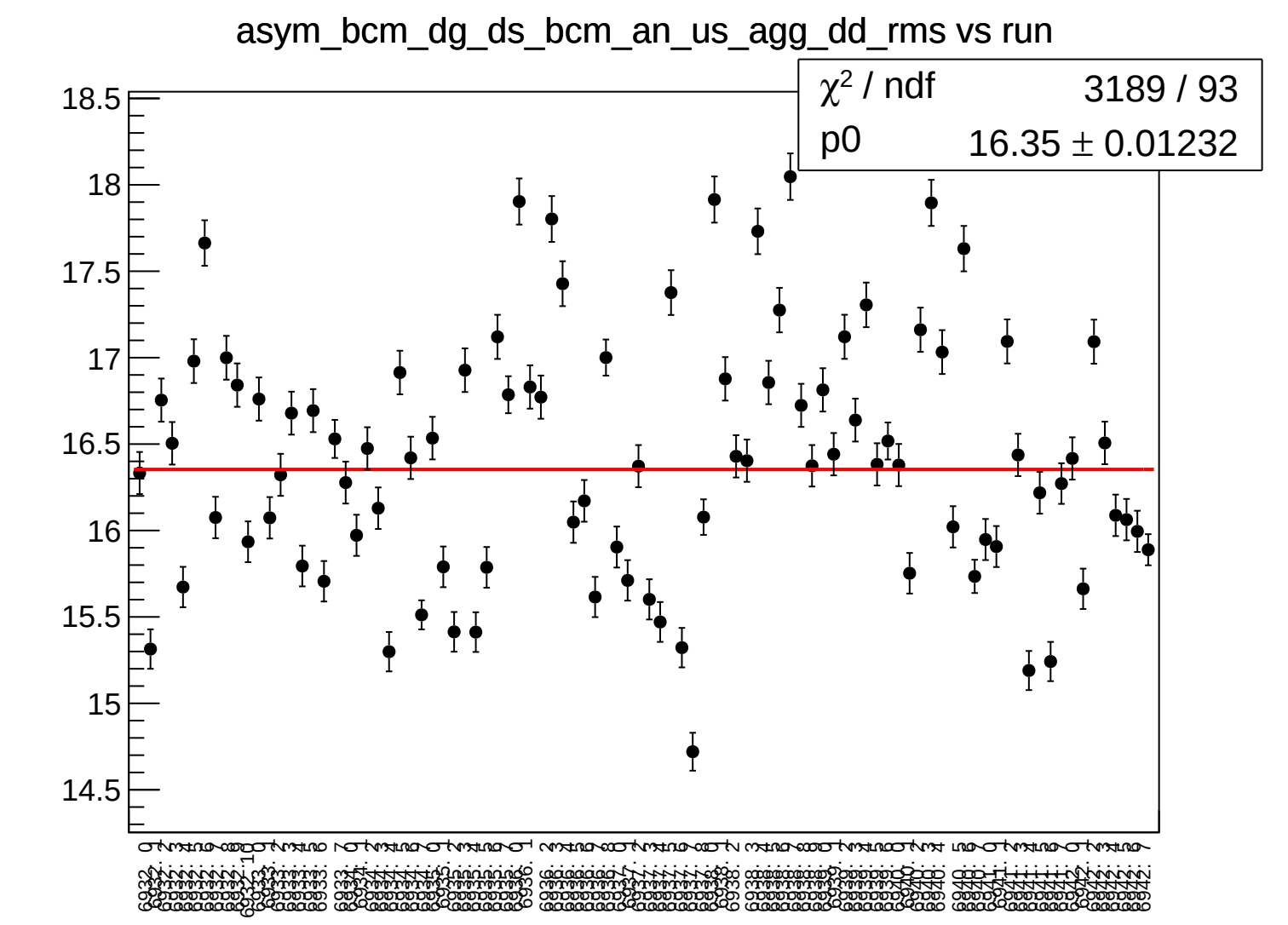

pull1D
Entries 94
Mean 0.008019
Std Dev 0.8882

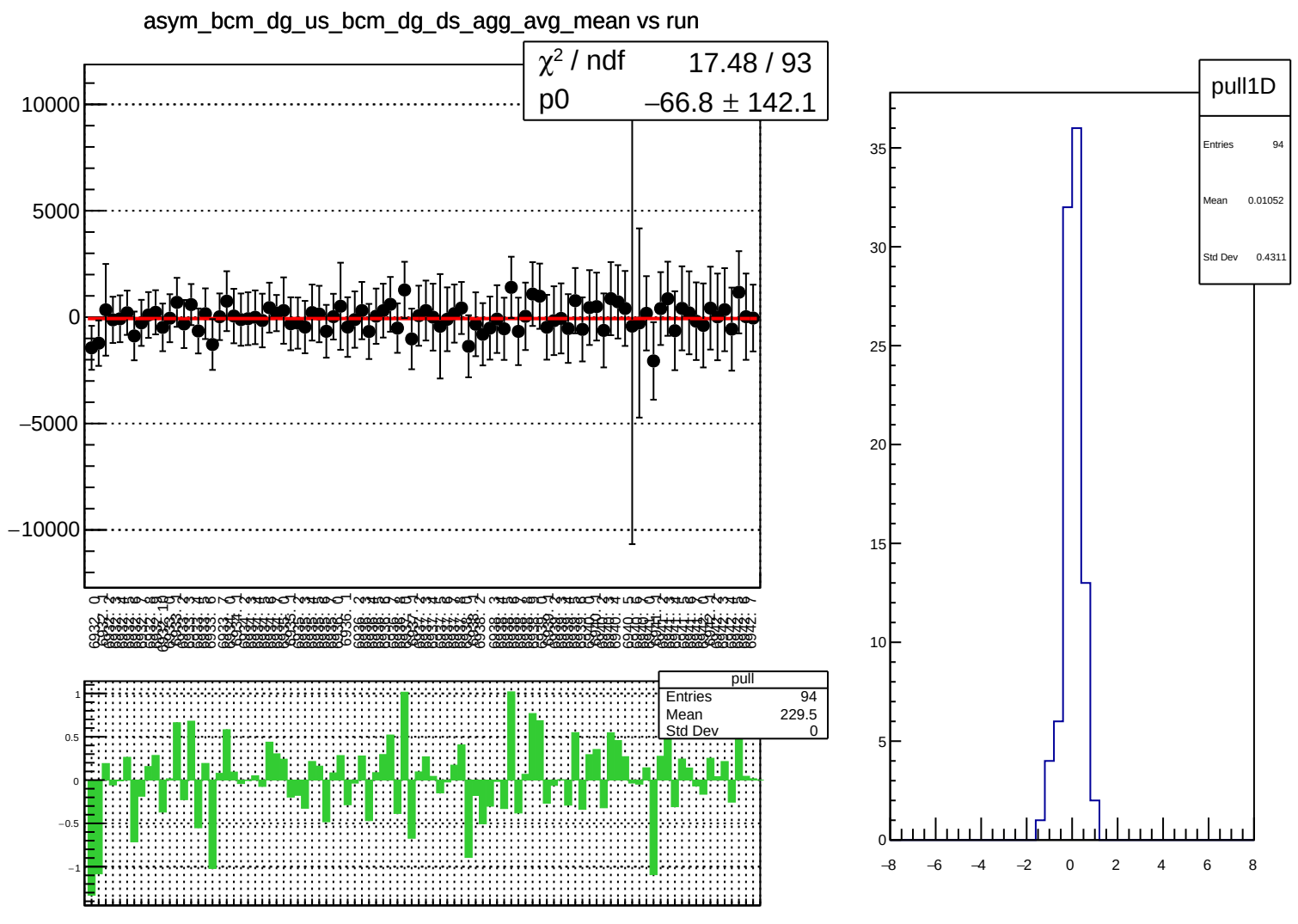

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 731.3 / 93
p0 22.23 ± 0.01674
24
23.5
23
22.5
22
21.5
21

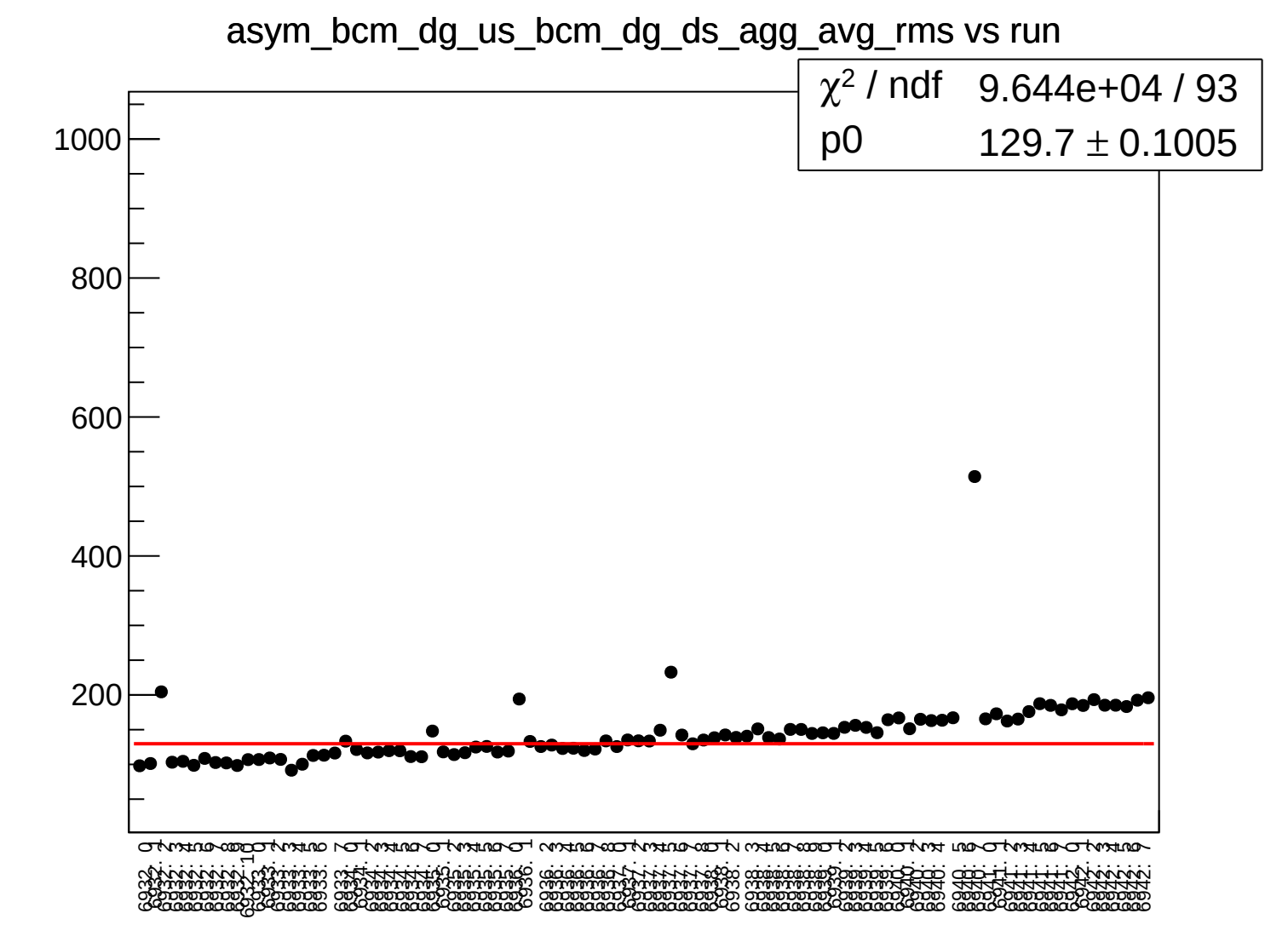

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.91 / 93
p0 −88.77 ± 139.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 251.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.01045
Std Dev 0.3982
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

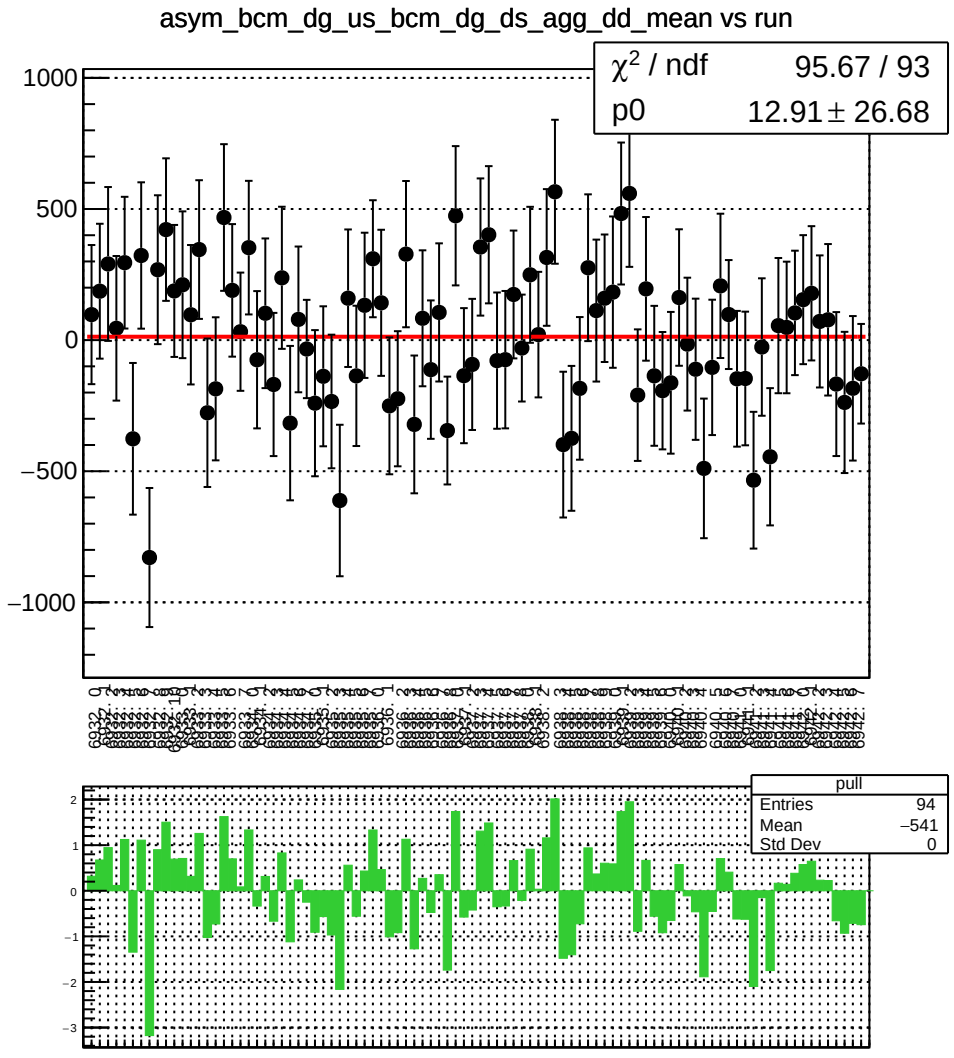

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.006e+05 / 93
p0 127.3 ± 0.09871
1000
900
800
700
600
500
400
300
200
100

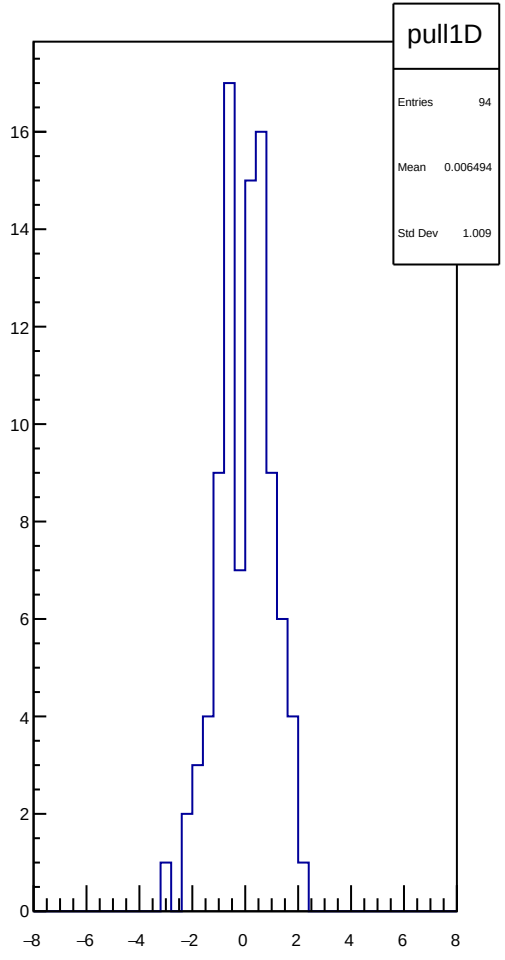

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 118.8 / 93
p0 5.963 ± 17.43
pull
Entries 94
Mean 1225
Std Dev 0
pull1D
Entries 94
Mean 0.003078
Std Dev 1.124

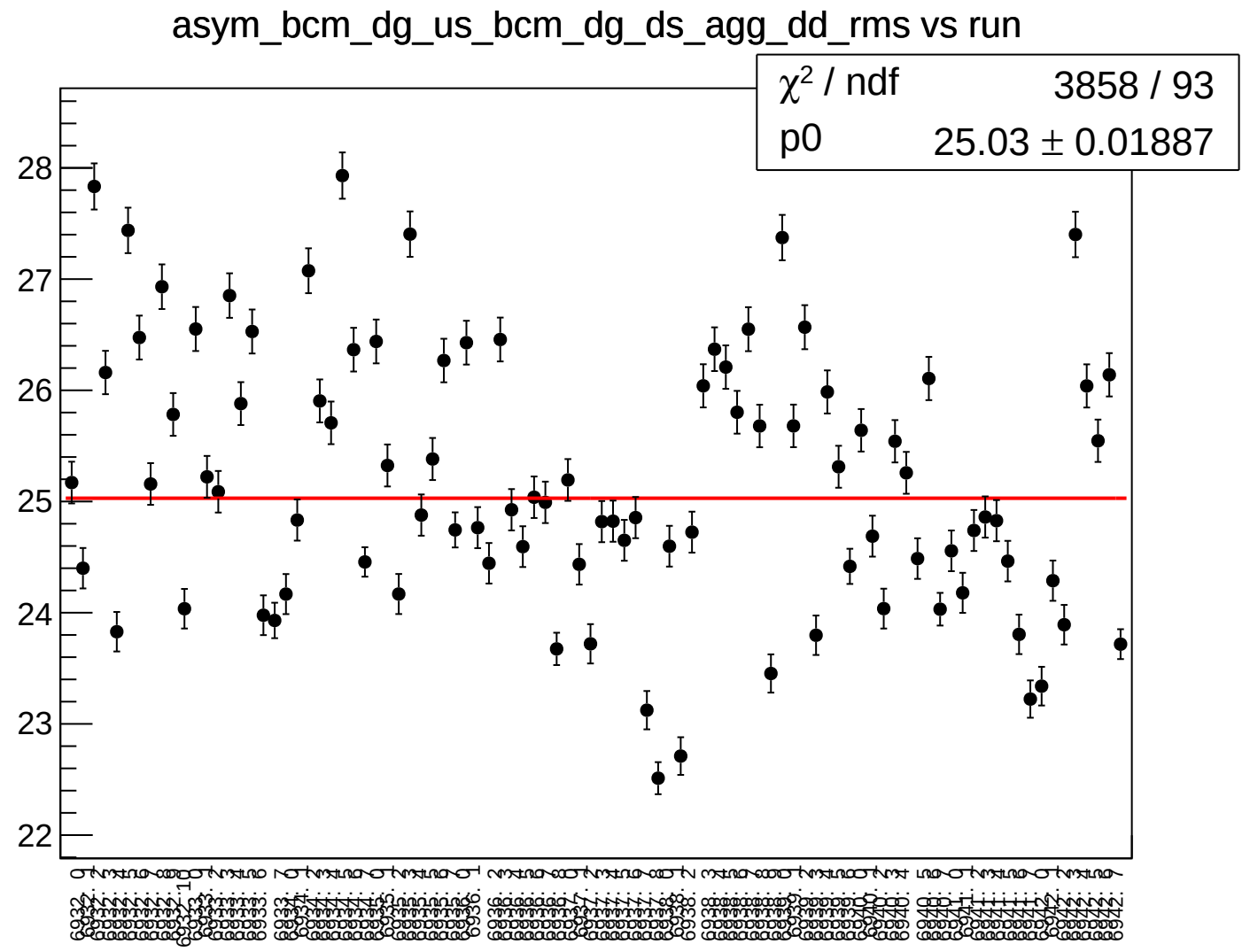

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3189 / 93
p0 16.35 ± 0.01232
18.5
18
17.5
17
16.5
16
15.5
15
14.5

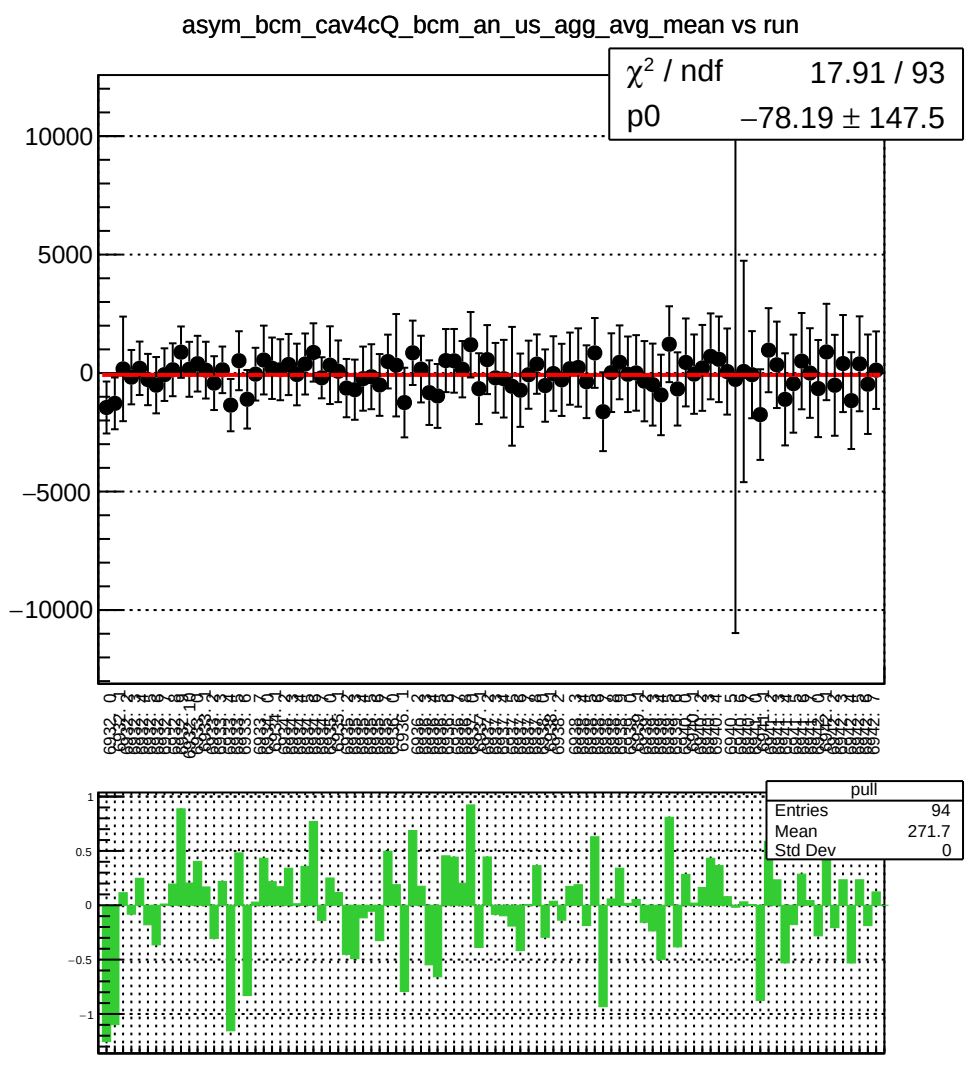

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 17.48 / 93
p0 −66.8 ± 142.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 229.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.01052
Std Dev 0.4311
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

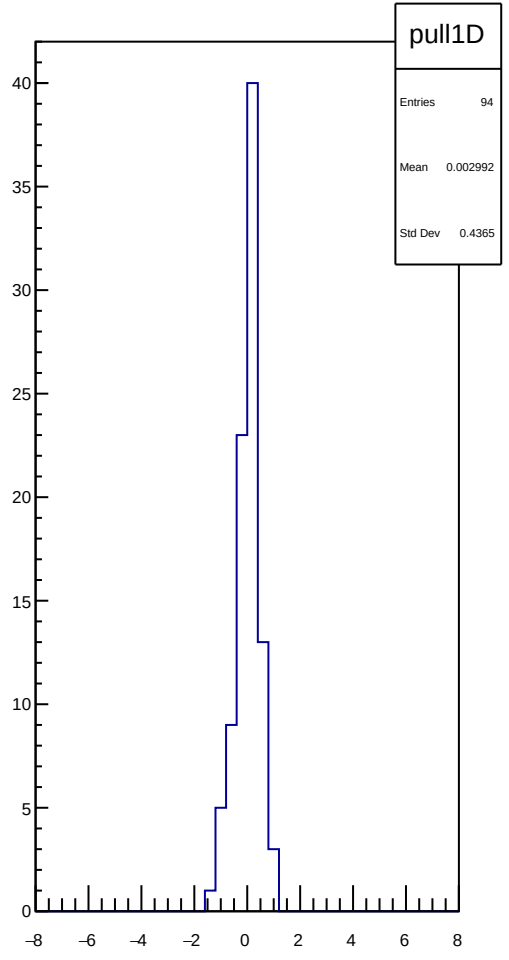

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.644e+04 / 93
p0 129.7 ± 0.1005
1000
800
600
400
200

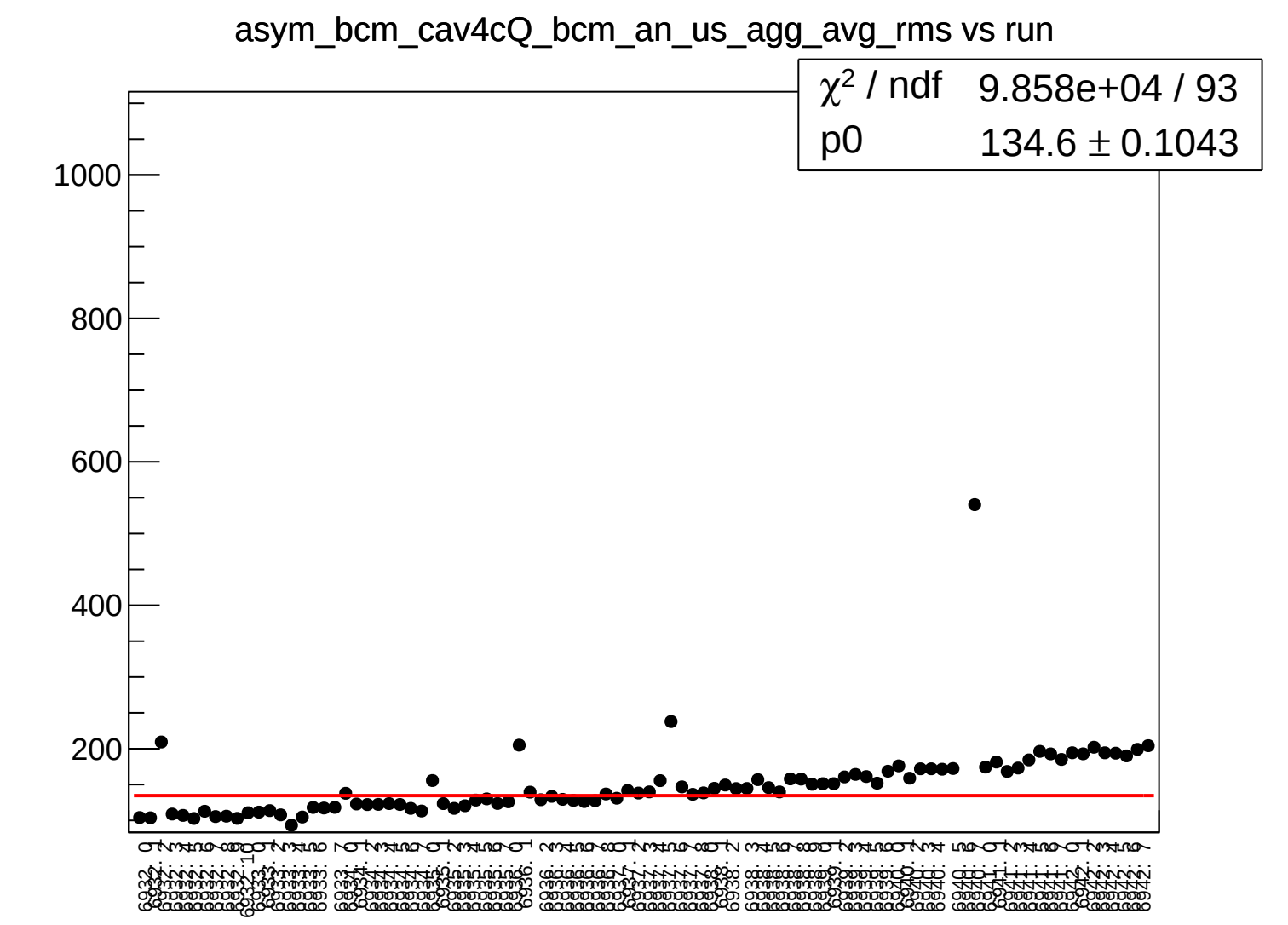

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 95.67 / 93
p0 12.91 ± 26.68
1000
500
0
−500
−1000
pull
Entries 94
Mean −541
Std Dev 0
2
1
0
−1
−2
−3

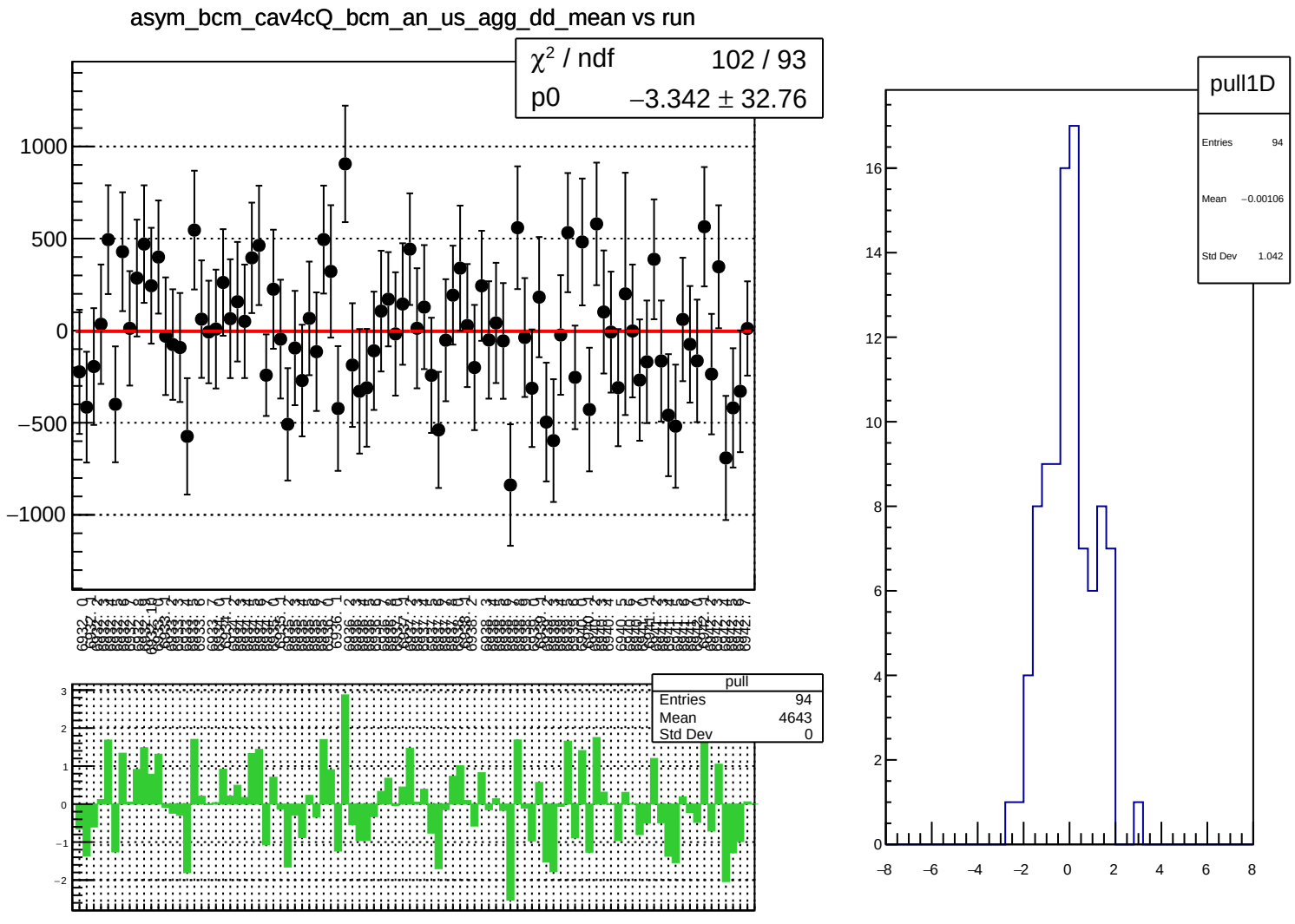

pull1D
Entries 94
Mean 0.006494
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

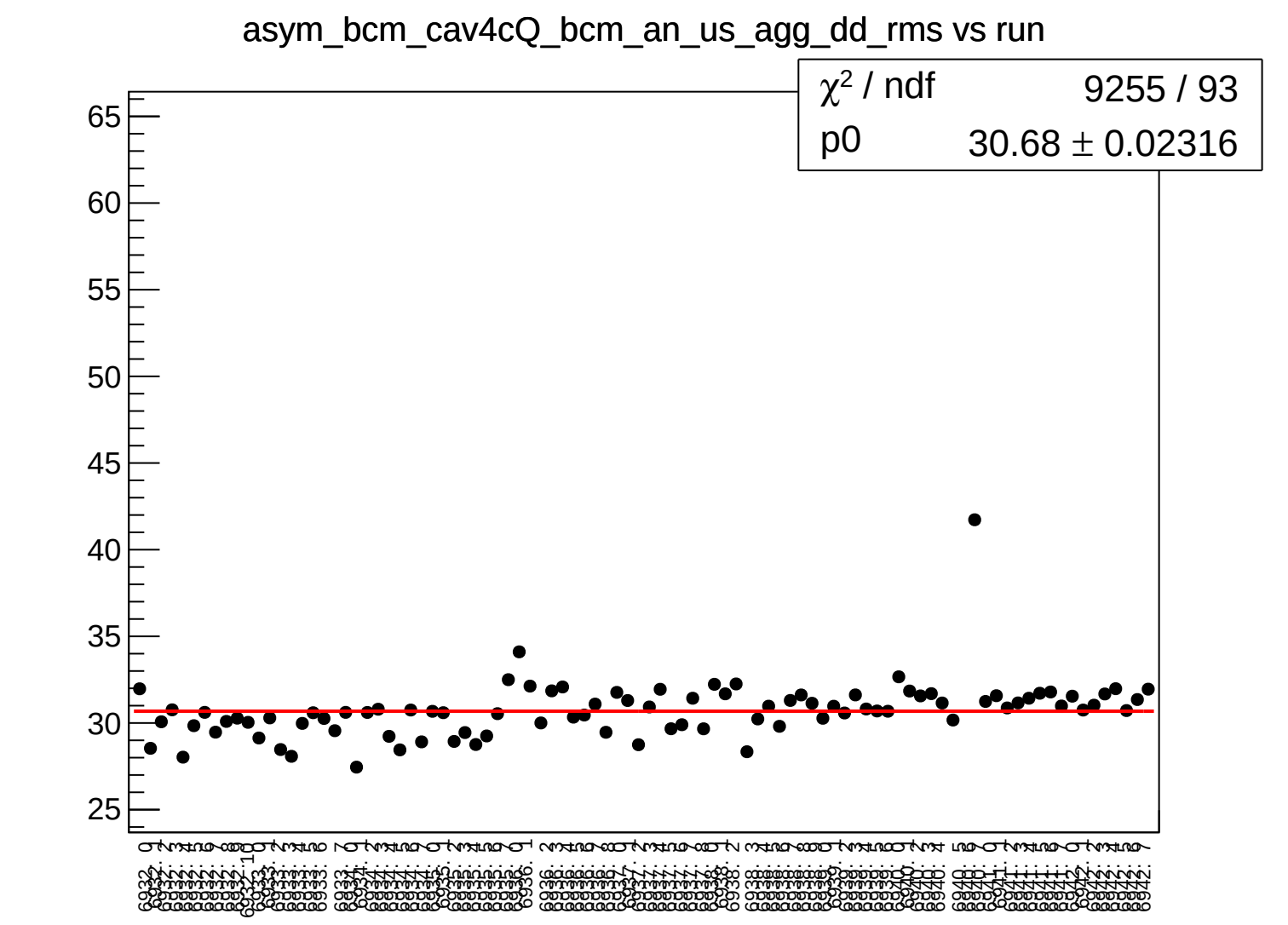

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3858 / 93
p0 25.03 ± 0.01887
28
27
26
25
24
23
22

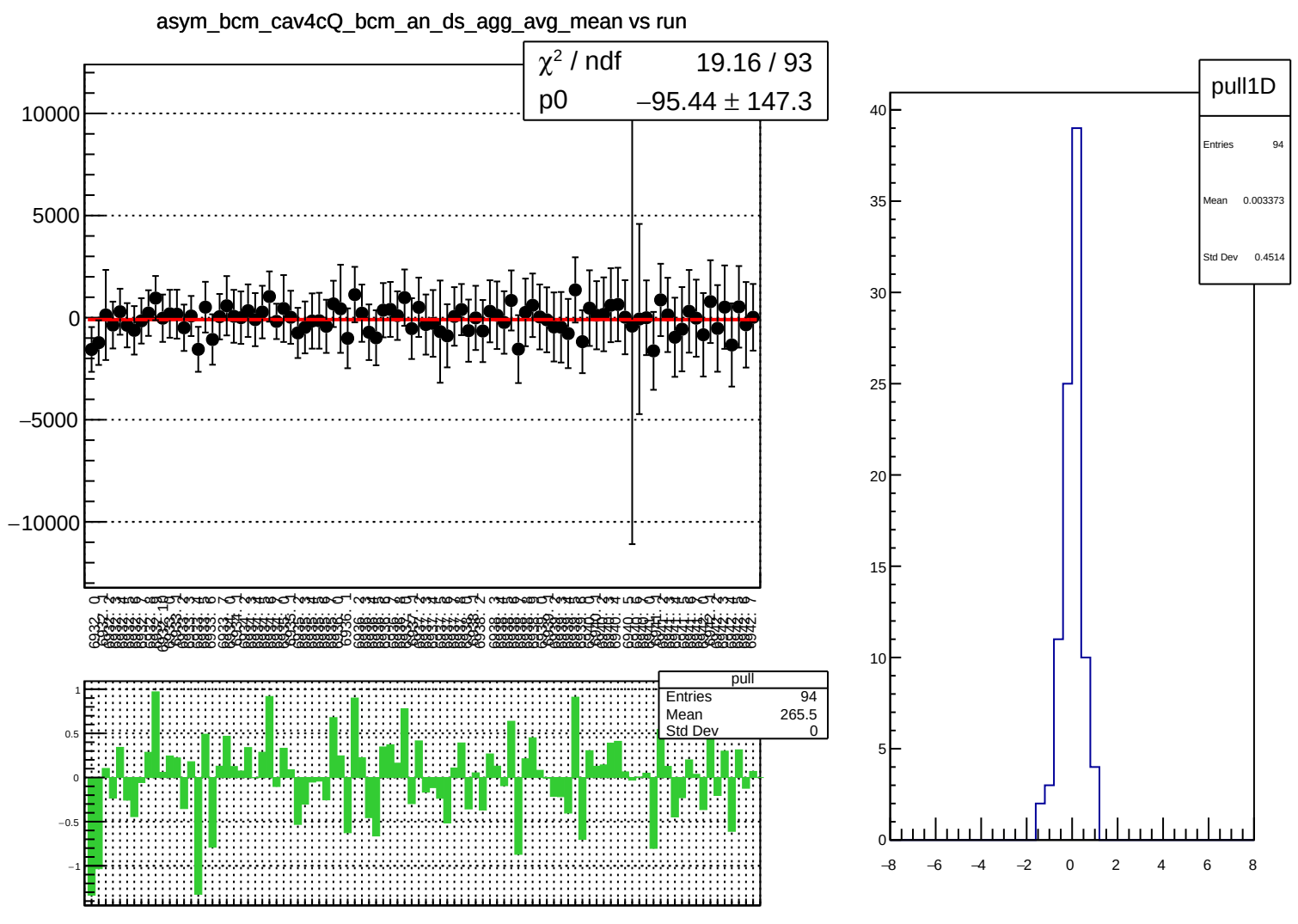

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.91 / 93
p0 −78.19 ± 147.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 271.7
Std Dev 0
1
0.5
0
−0.5
−1

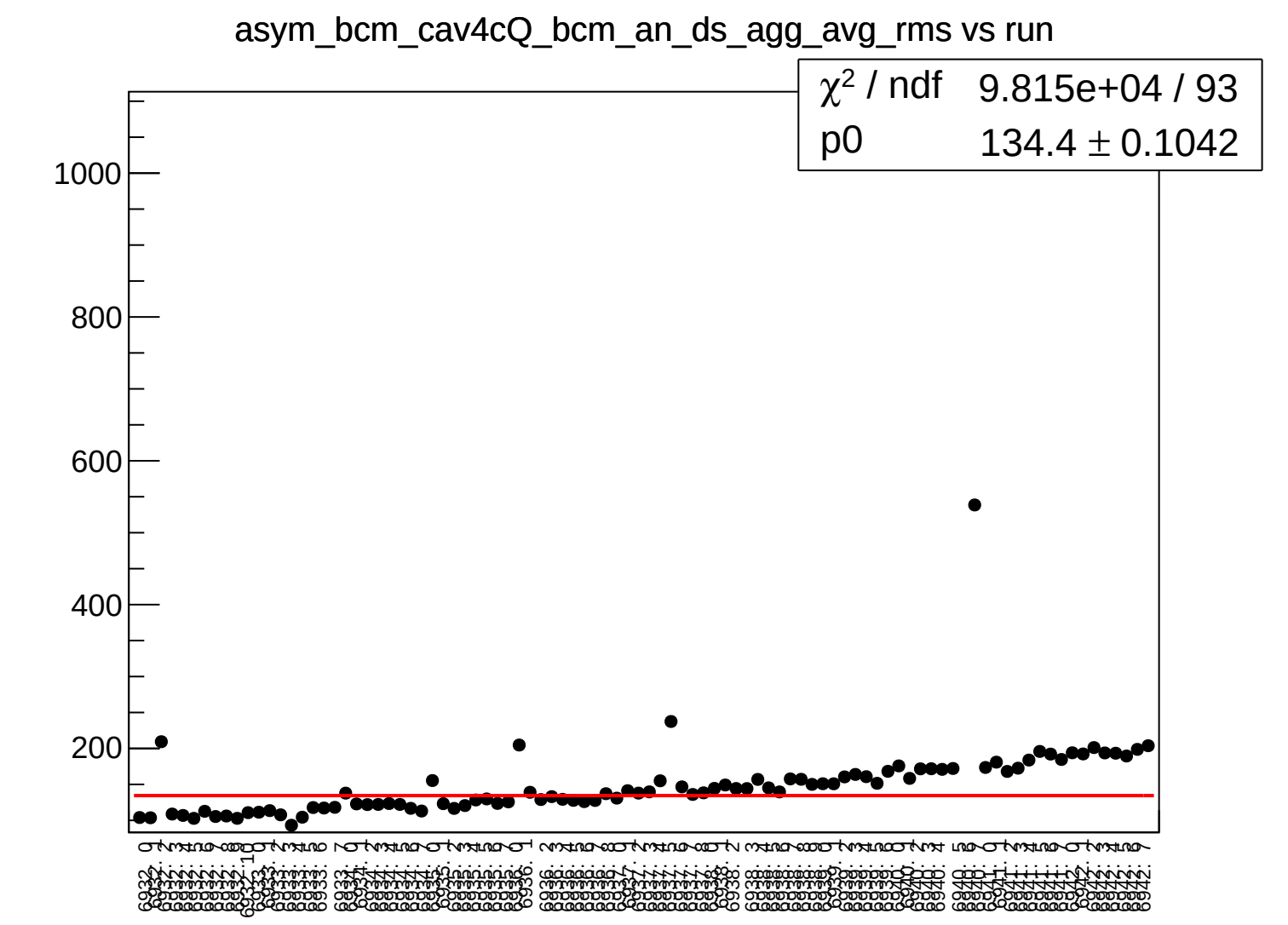

pull1D
Entries 94
Mean 0.002992
Std Dev 0.4365
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

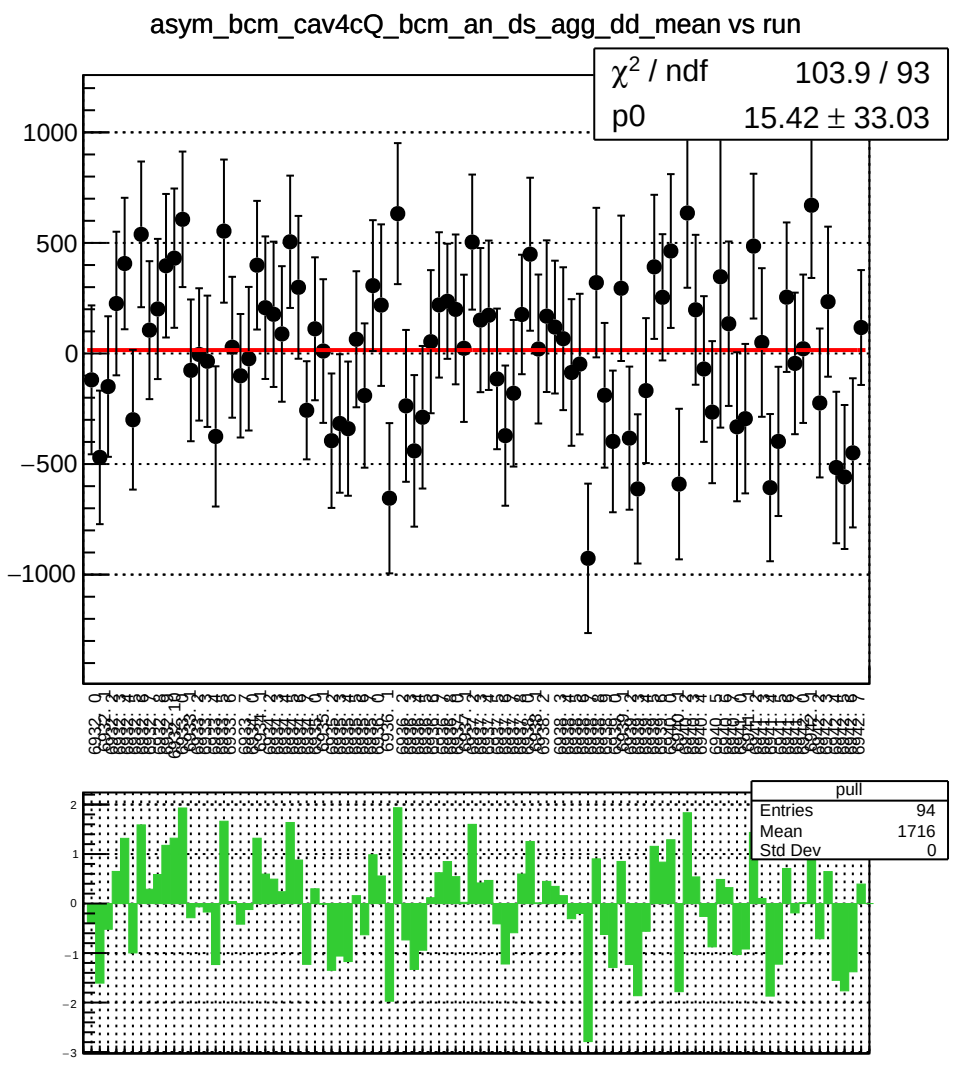

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.858e+04 / 93
p0 134.6 ± 0.1043
1000
800
600
400
200

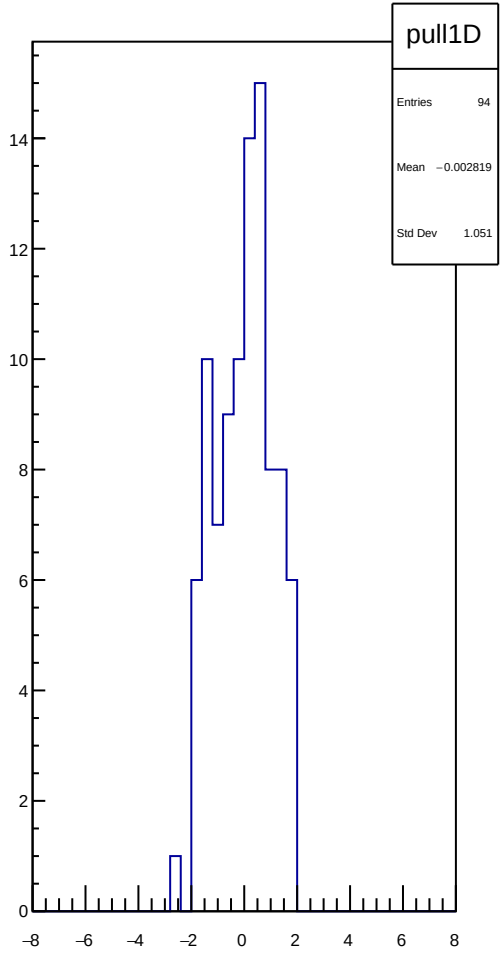

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 102 / 93
p0 −3.342 ± 32.76
1000
500
0
−500
−1000
pull
Entries 94
Mean 4643
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.00106
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

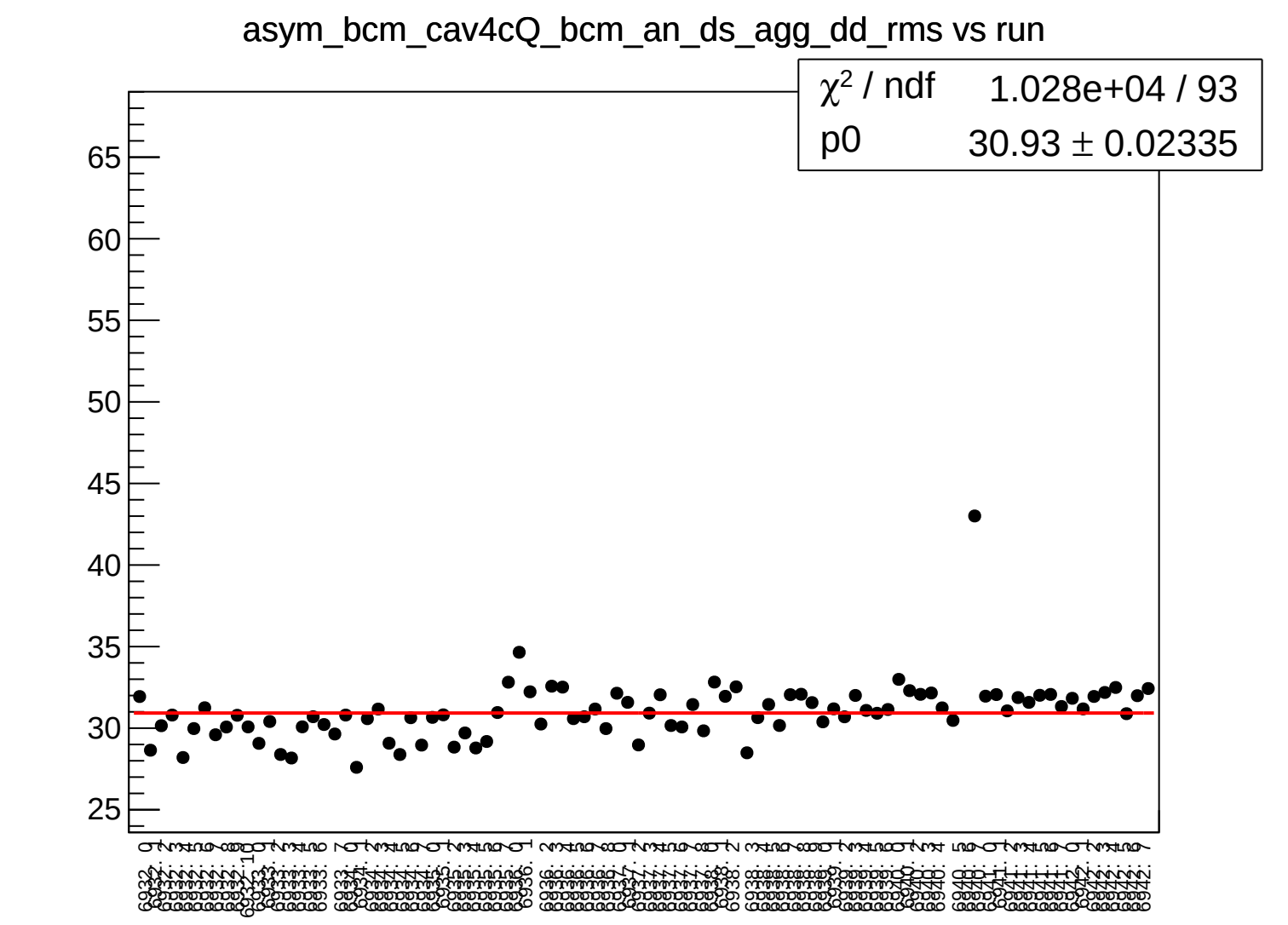

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 9255 / 93
p0 30.68 ± 0.02316
65
60
55
50
45
40
35
30
25

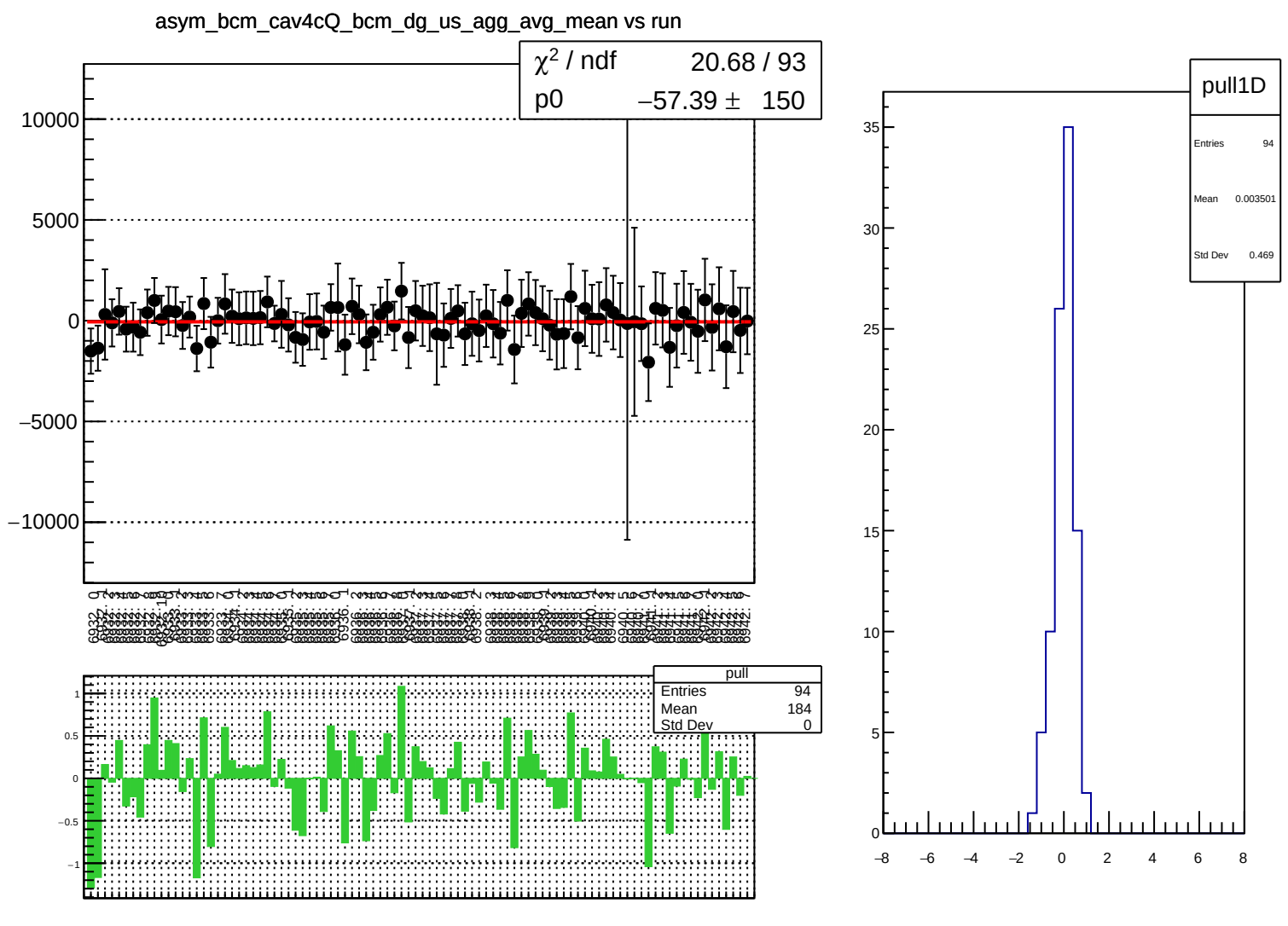

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 19.16 / 93
p0 −95.44 ± 147.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 265.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.003373
Std Dev 0.4514
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

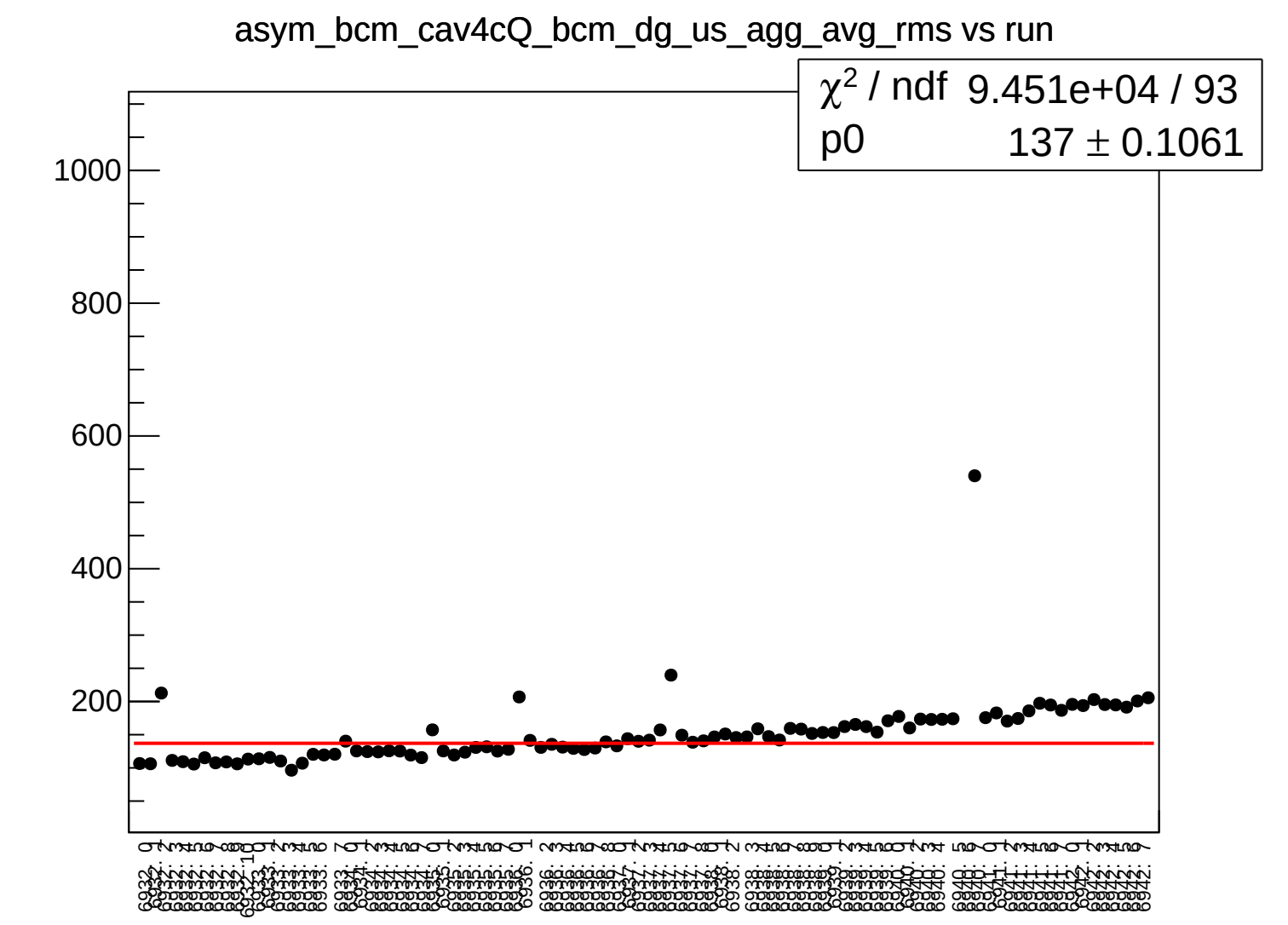

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.815e+04 / 93
p0 134.4 ± 0.1042
1000
800
600
400
200

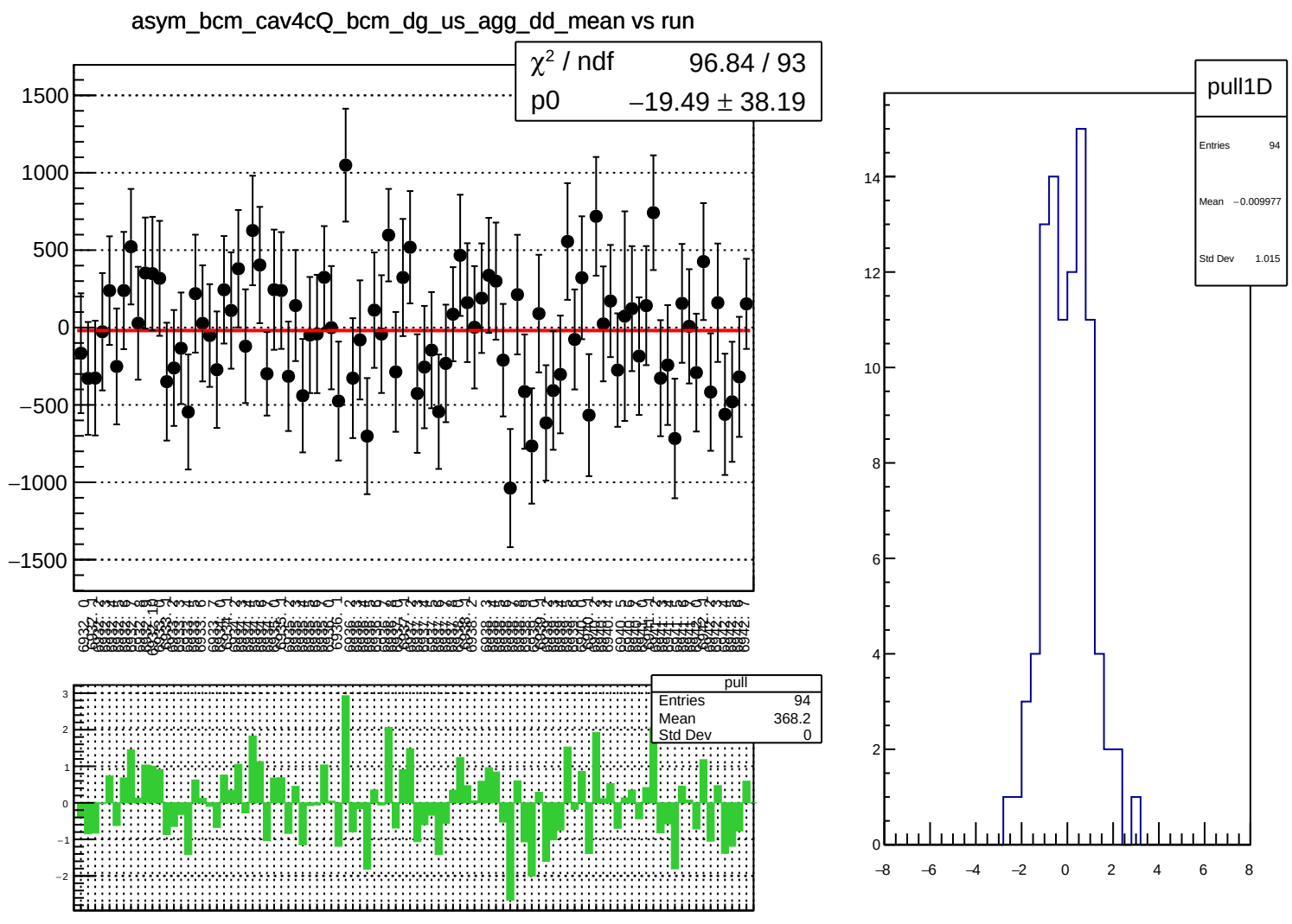

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.9 / 93
p0 15.42 ± 33.03
1000
500
0
−500
−1000
pull
Entries 94
Mean 1716
Std Dev 0
2
1
0
−1
−2
−3

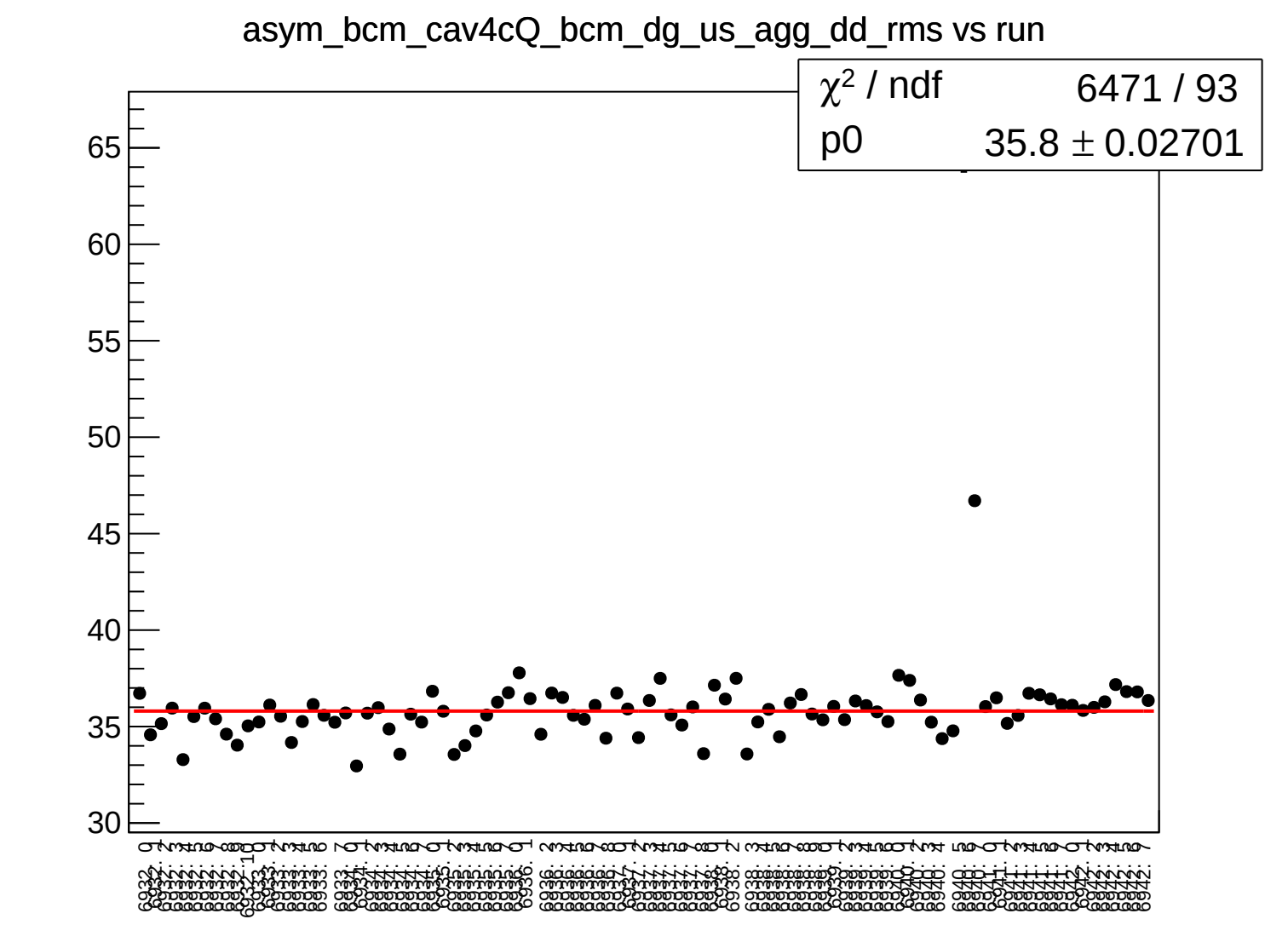

pull1D
Entries 94
Mean −0.002819
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

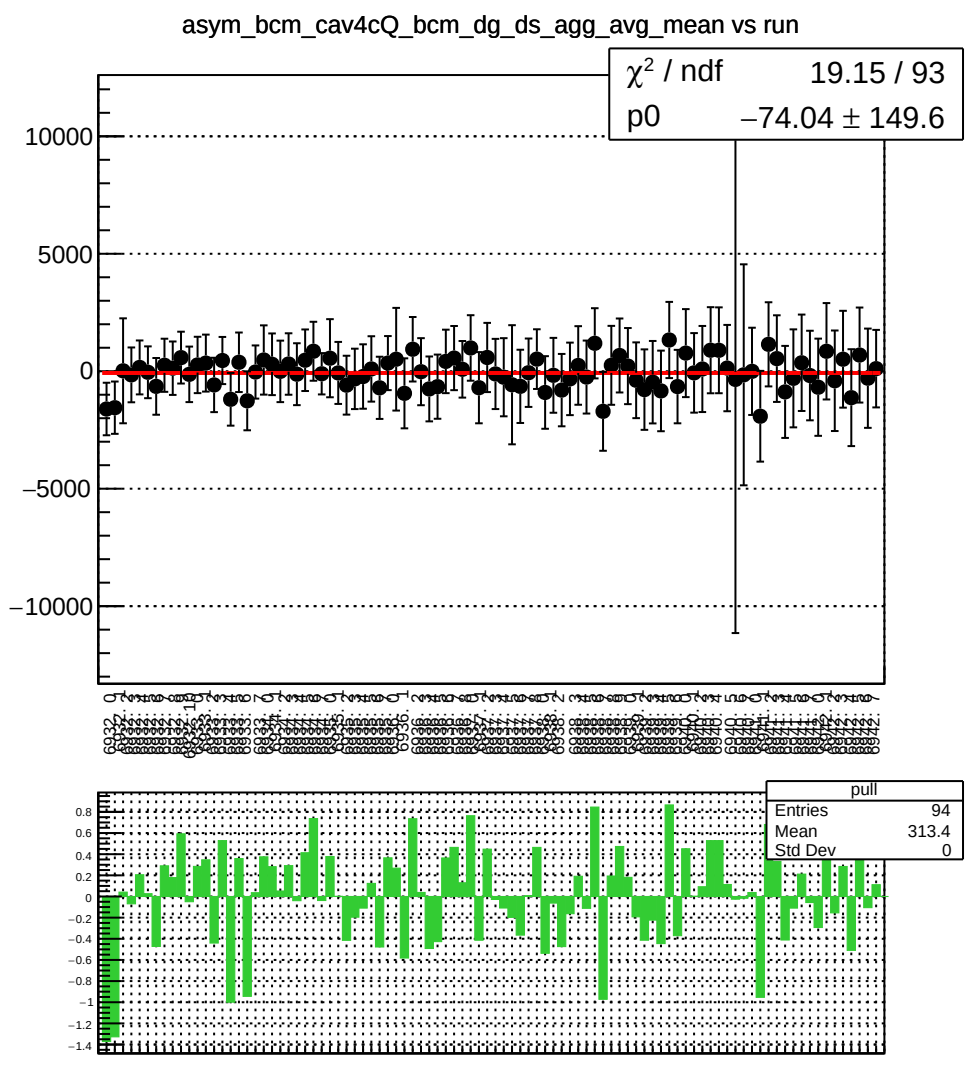

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 1.028e+04 / 93
p0 30.93 ± 0.02335
65
60
55
50
45
40
35
30
25

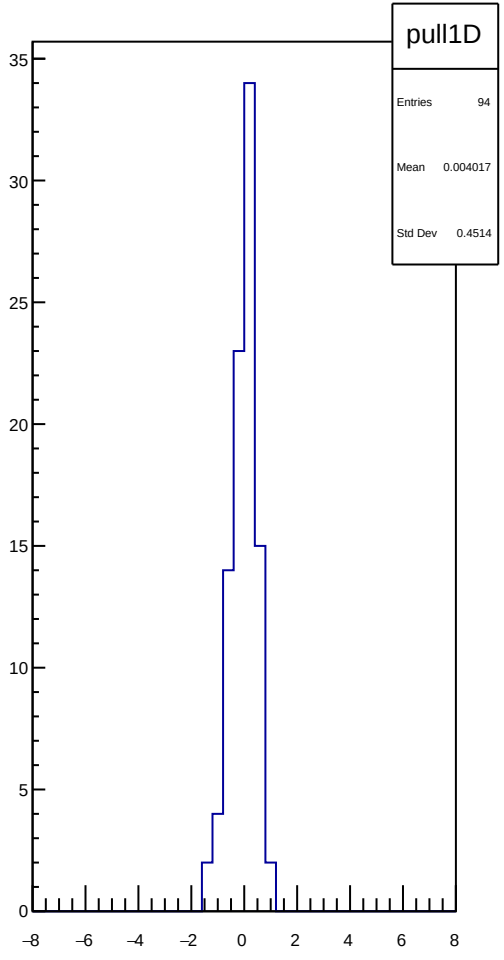

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 20.68 / 93
p0 −57.39 ± 150
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 184
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.003501
Std Dev 0.469
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

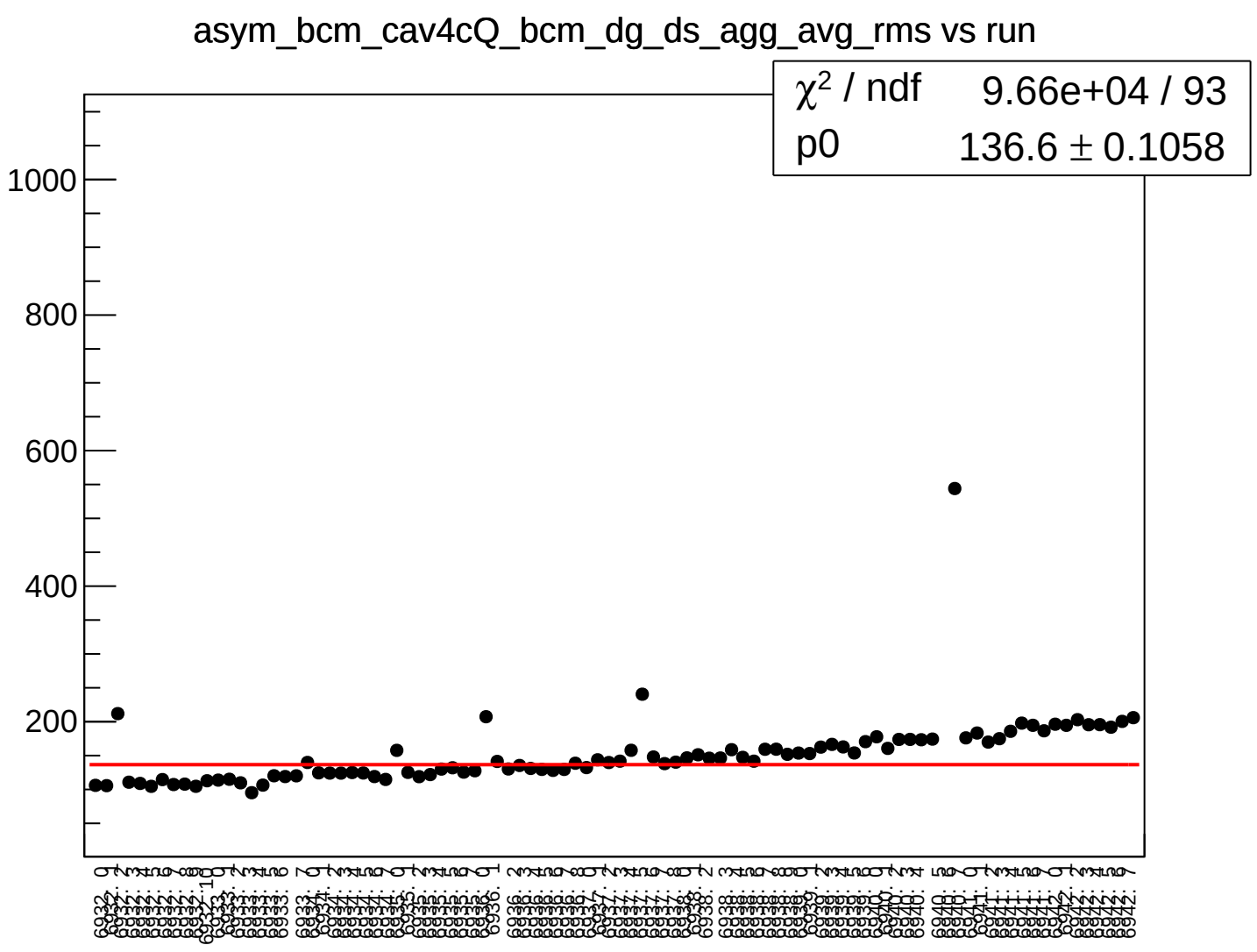

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9.451e+04 / 93
p0 137 ± 0.1061
1000
800
600
400
200

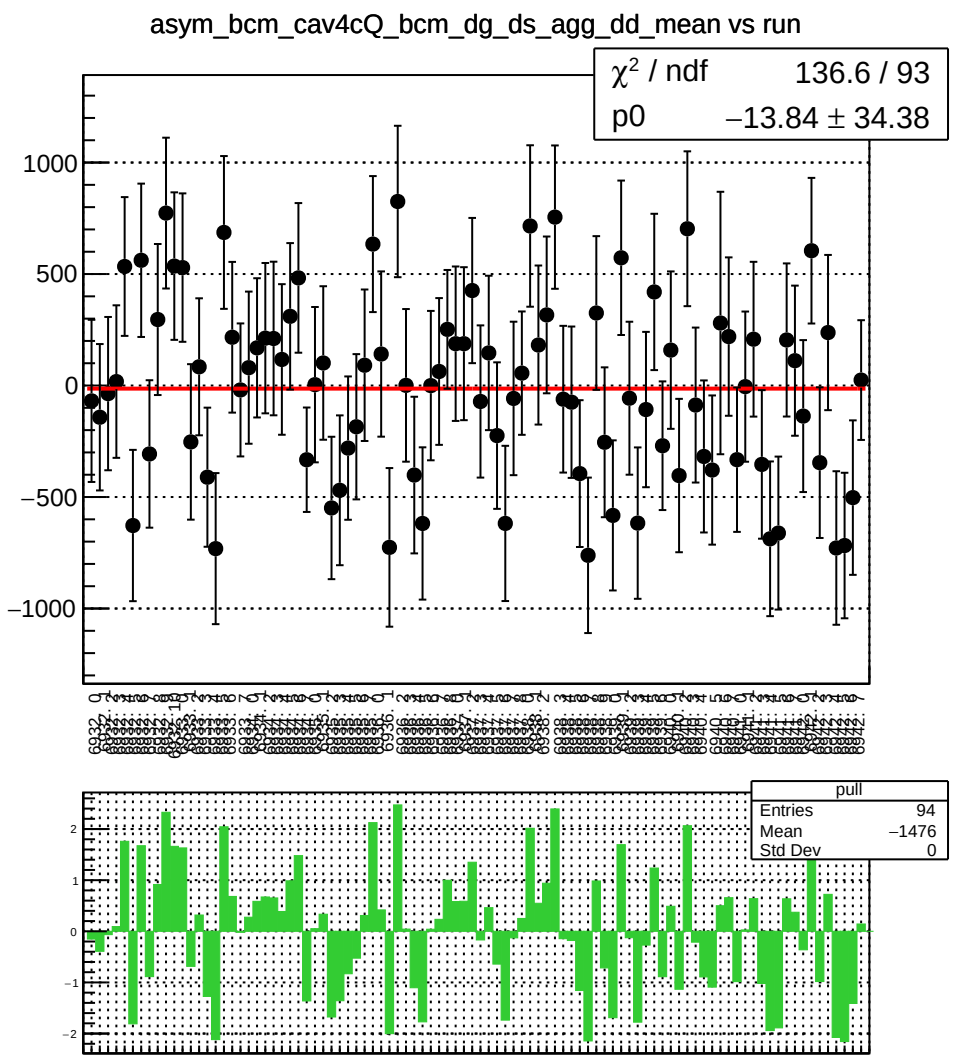

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 96.84 / 93
p0 −19.49 ± 38.19
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 368.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.009977
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

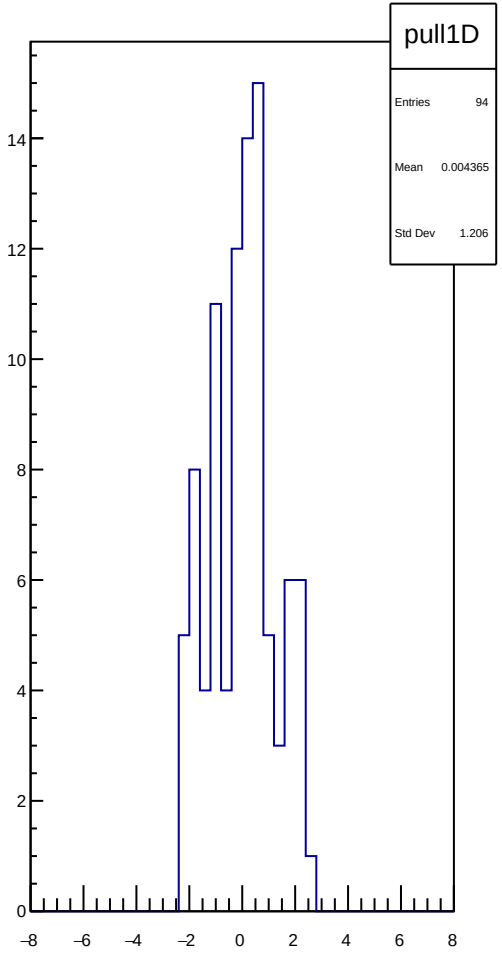

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 6471 / 93
p0 35.8 ± 0.02701
65
60
55
50
45
40
35
30

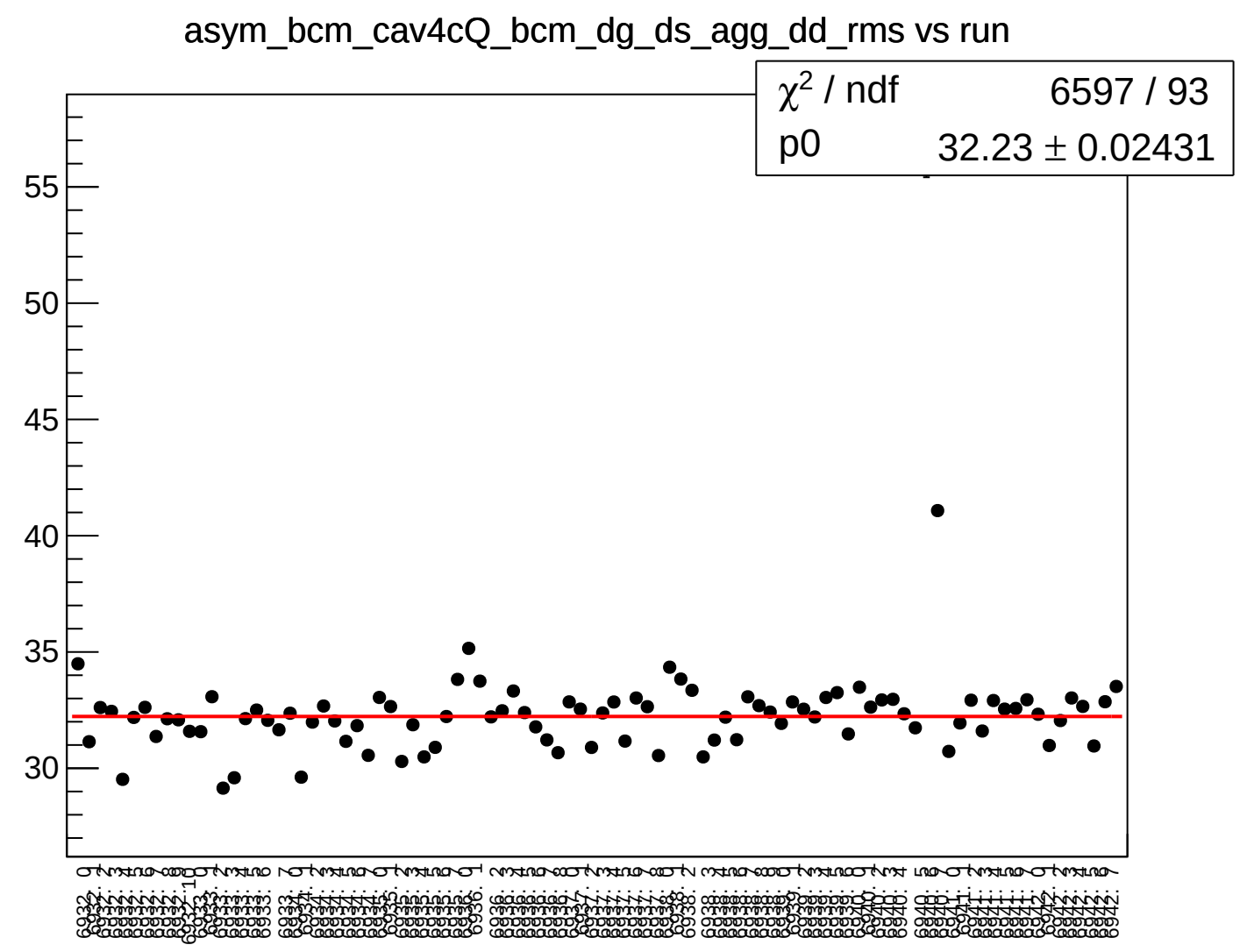

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.15 / 93
p0 −74.04 ± 149.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 313.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

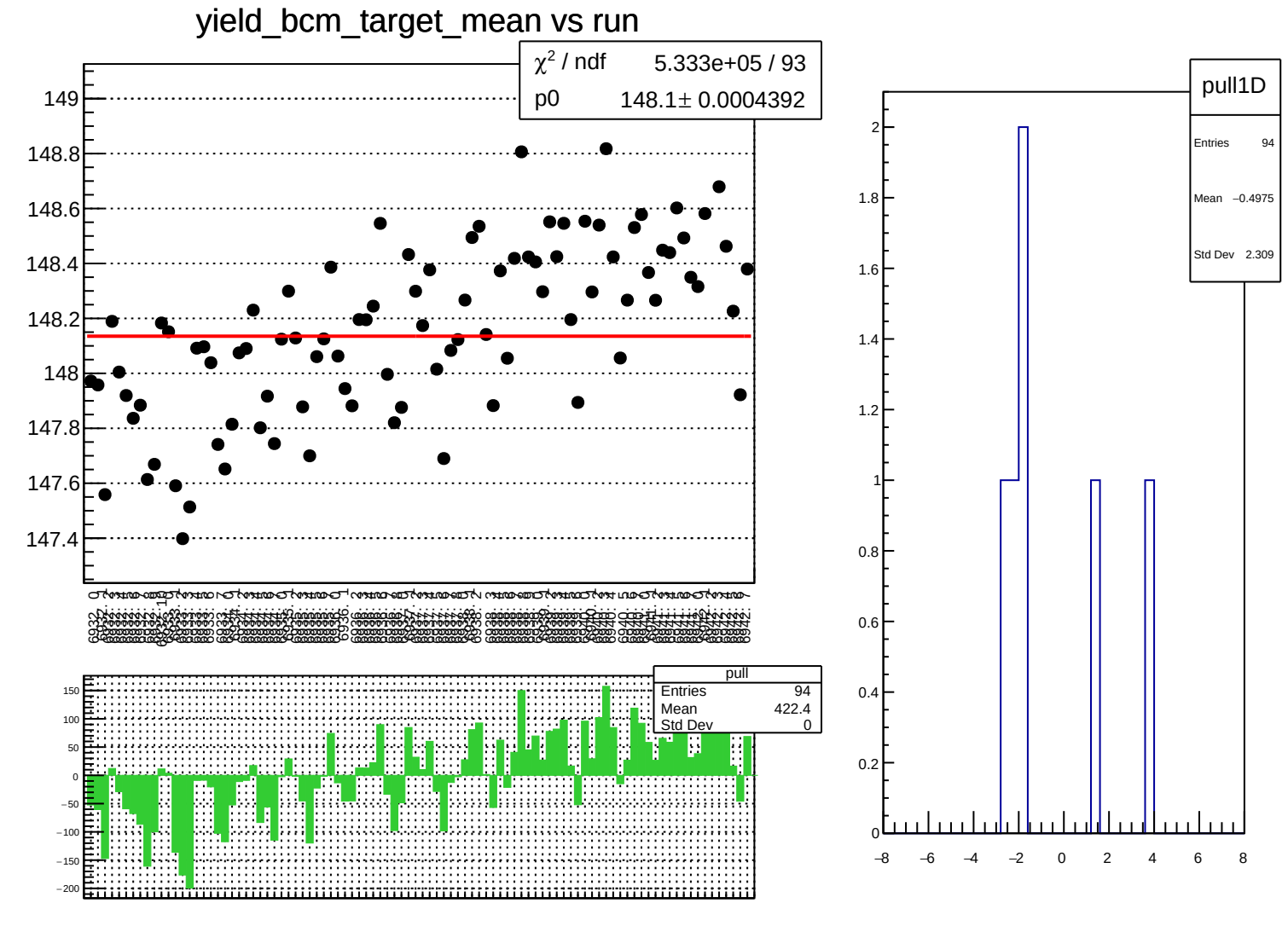

pull1D
Entries 94
Mean 0.004017
Std Dev 0.4514
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

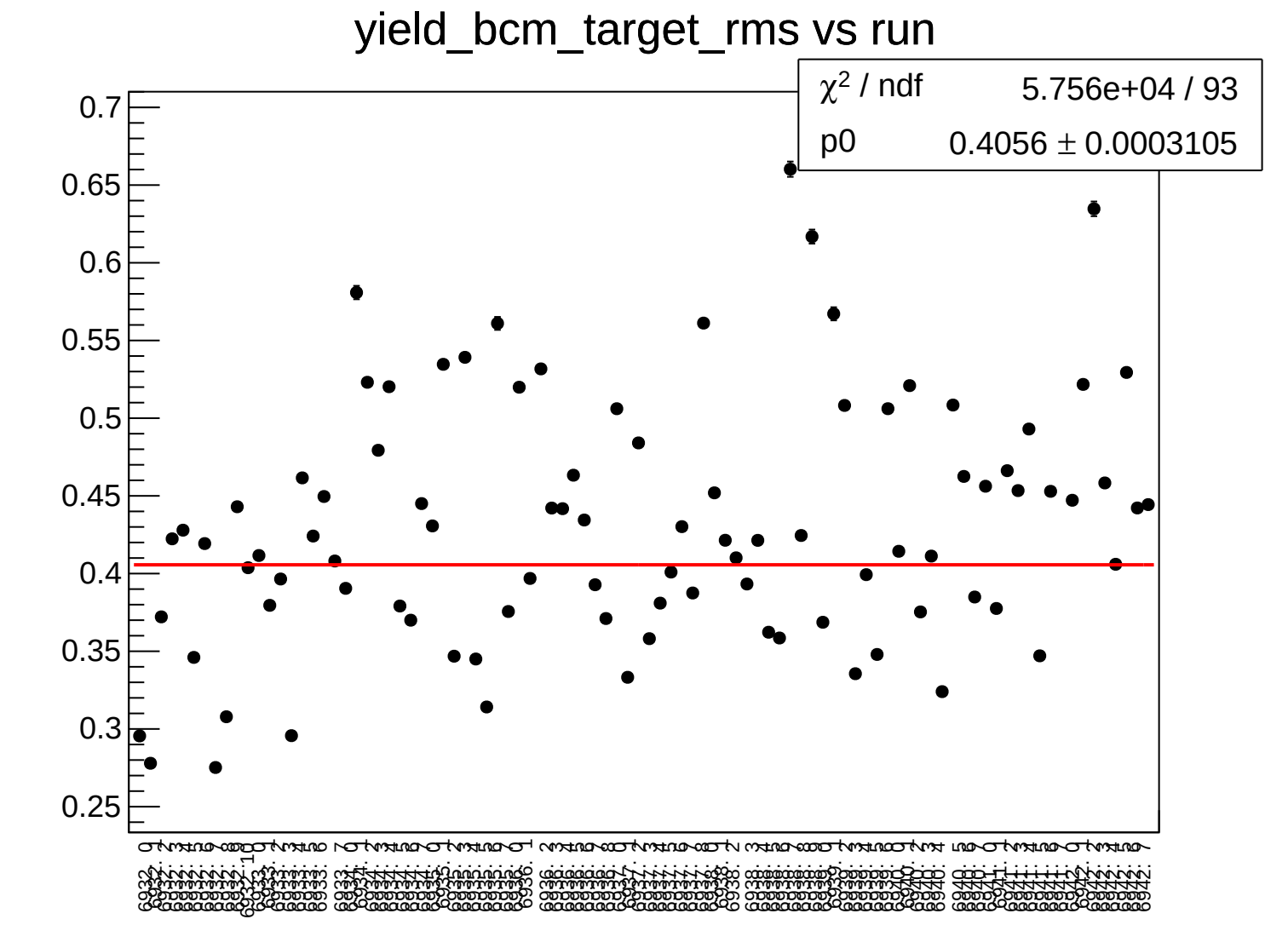

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.66e+04 / 93
p0 136.6 ± 0.1058
1000
800
600
400
200

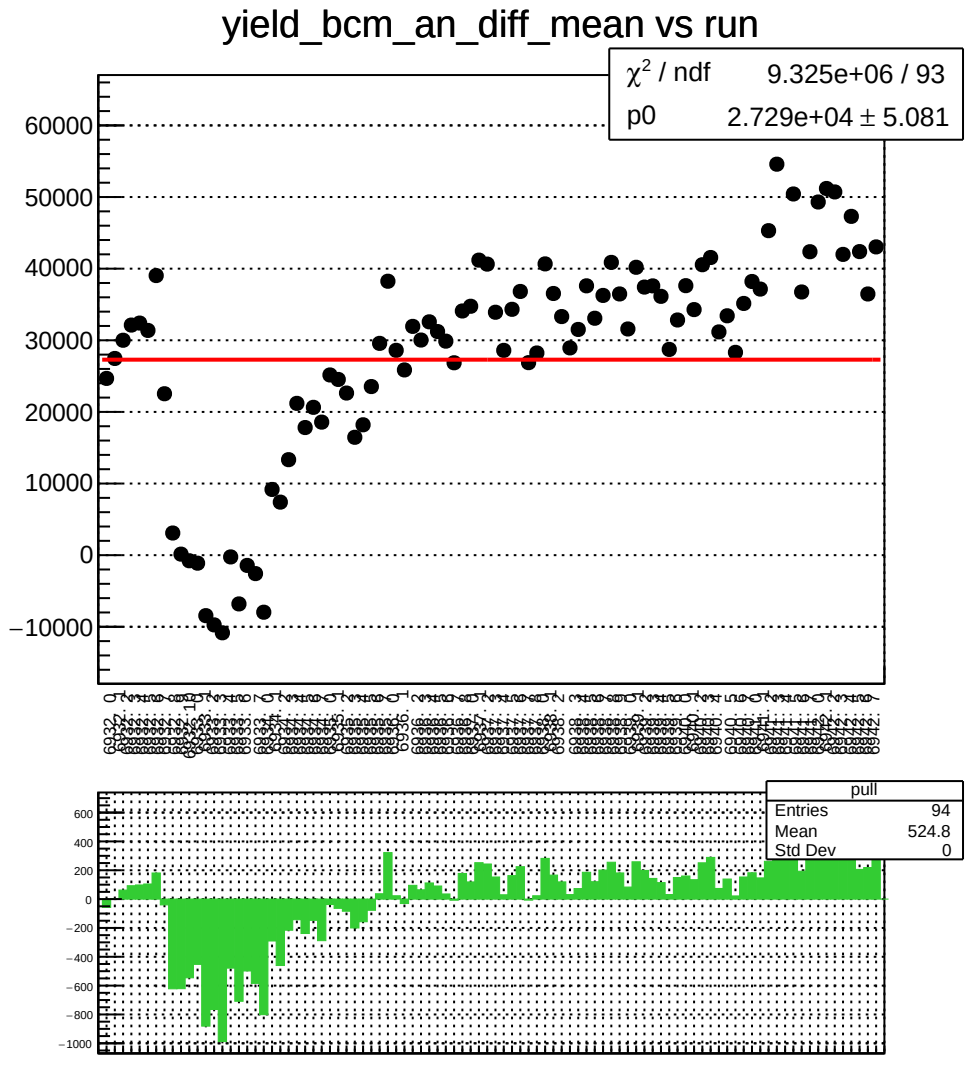

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 136.6 / 93
p0 −13.84 ± 34.38
1000
500
0
−500
−1000
pull
Entries 94
Mean −1476
Std Dev 0
2
1
0
−1
−2

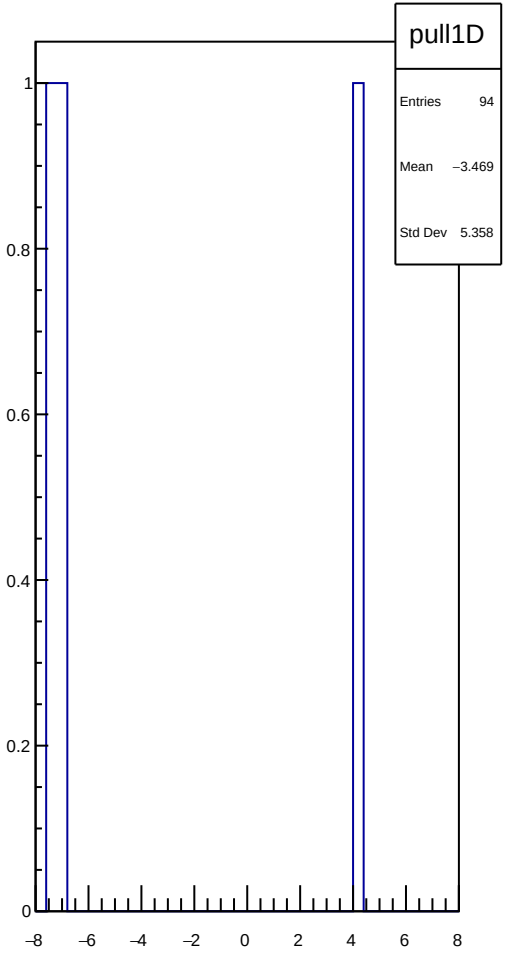

pull1D
Entries 94
Mean 0.004365
Std Dev 1.206
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

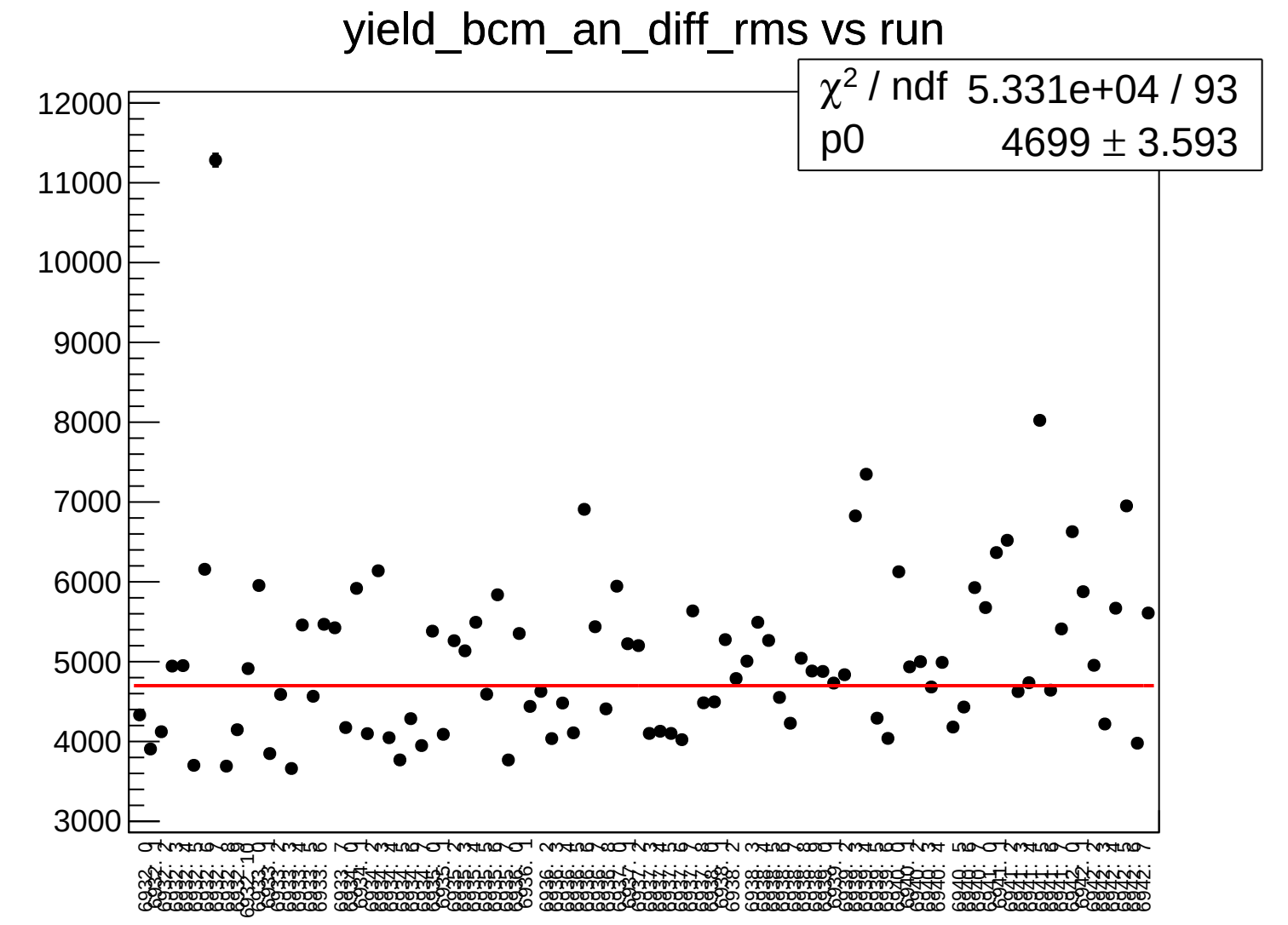

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6597 / 93
p0 32.23 ± 0.02431
55
50
45
40
35
30

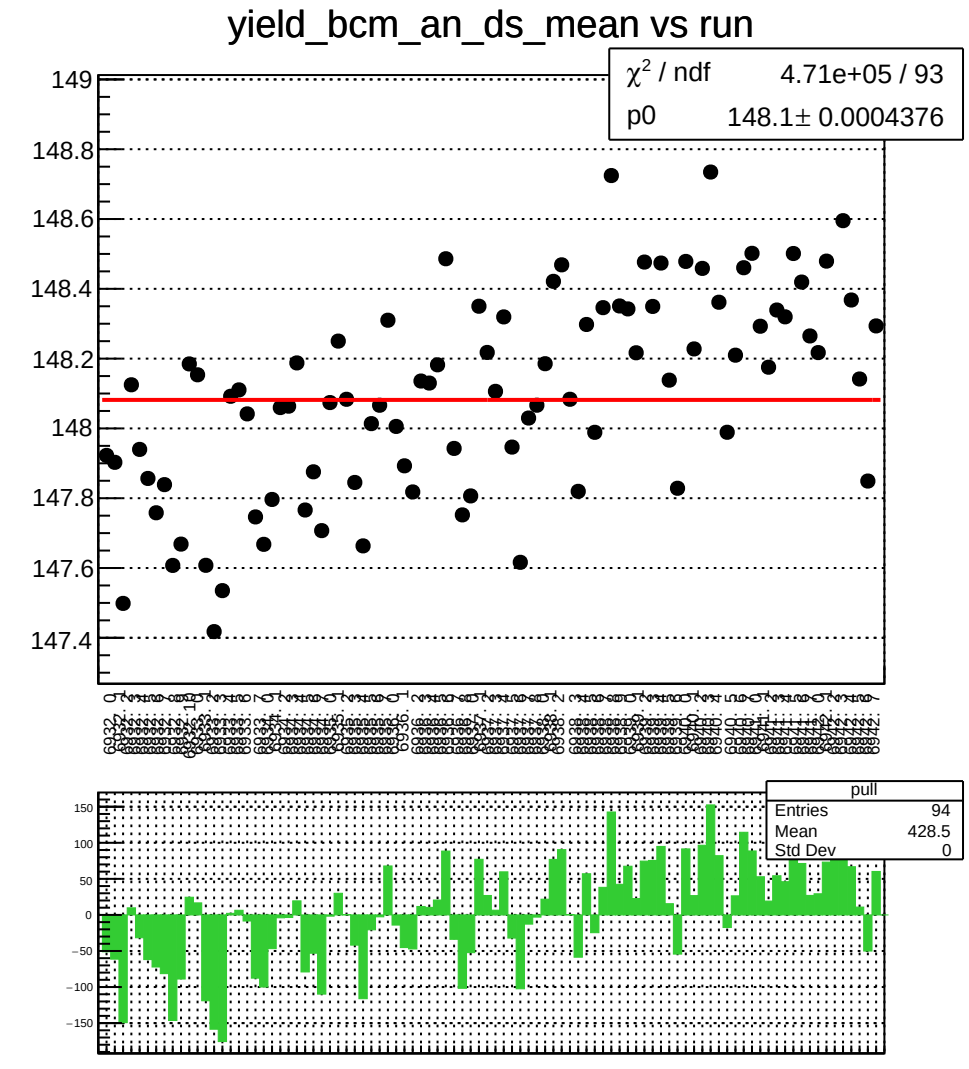

yield_bcm_target_mean vs run
χ² / ndf 5.333e+05 / 93
p0 148.1± 0.0004392
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 422.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −0.4975
Std Dev 2.309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

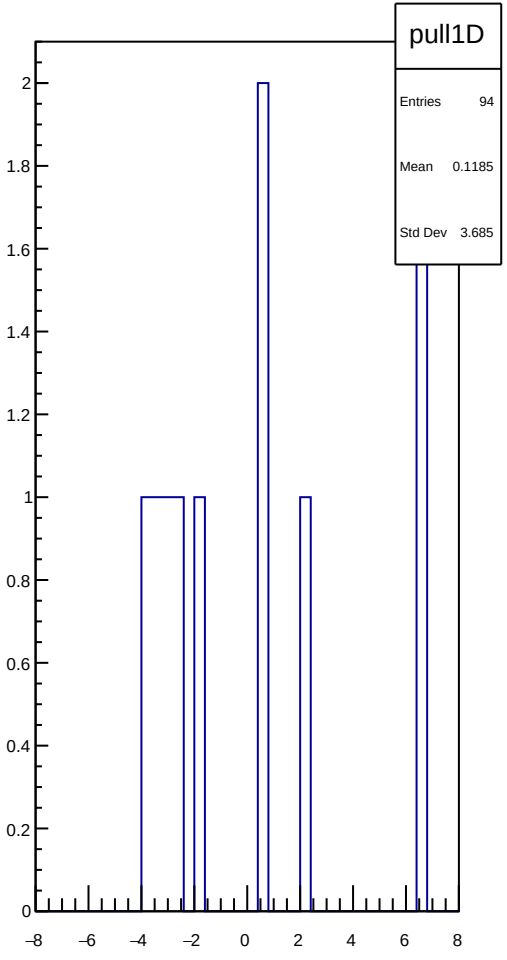

yield_bcm_target_rms vs run
χ² / ndf 5.756e+04 / 93
p0 0.4056 ± 0.0003105
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

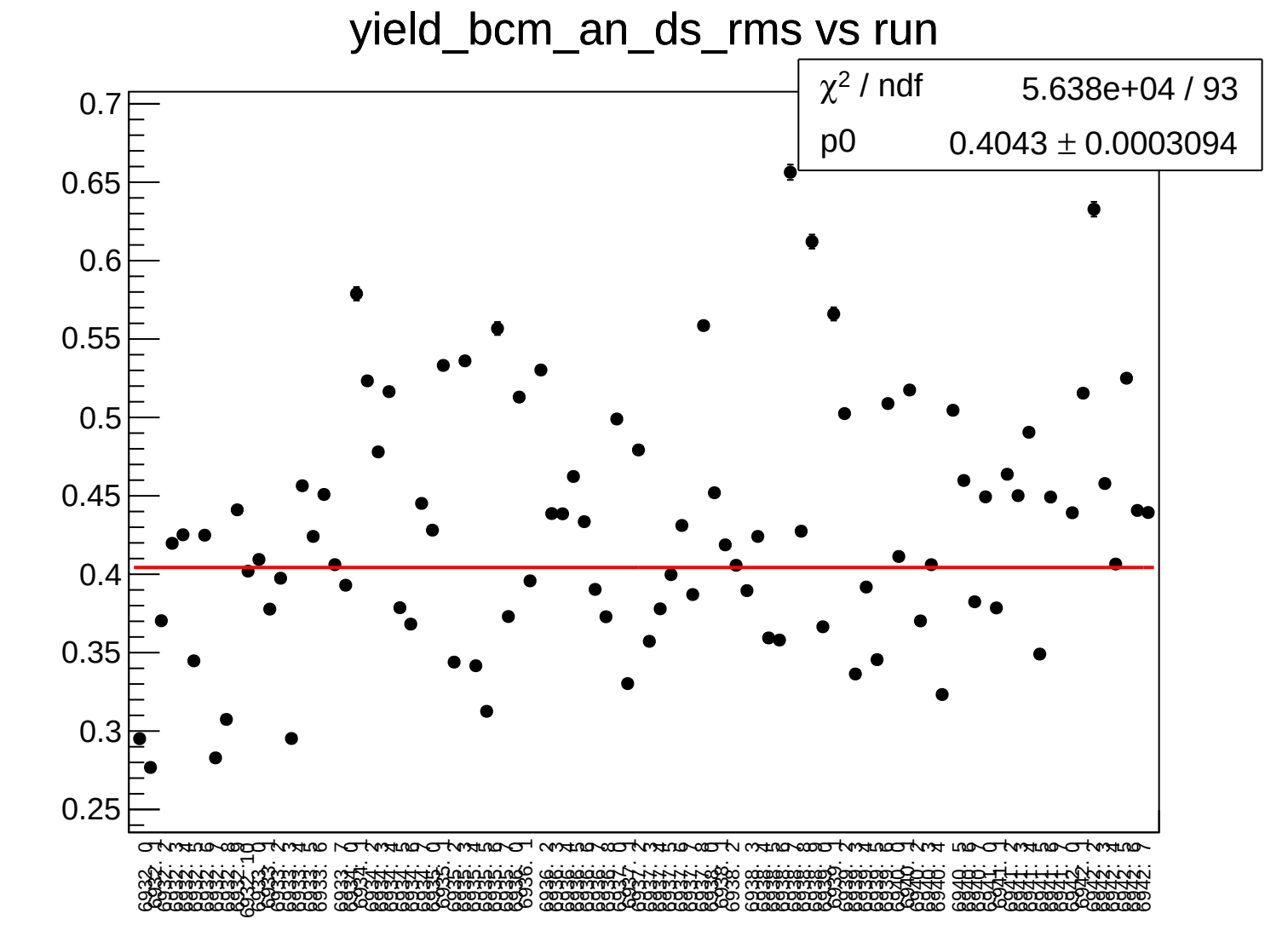

yield_bcm_an_diff_mean vs run
χ² / ndf 9.325e+06 / 93
p0 2.729e+04 ± 5.081
60000
50000
40000
30000
20000
10000
0
−10000
pull
Entries 94
Mean 524.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

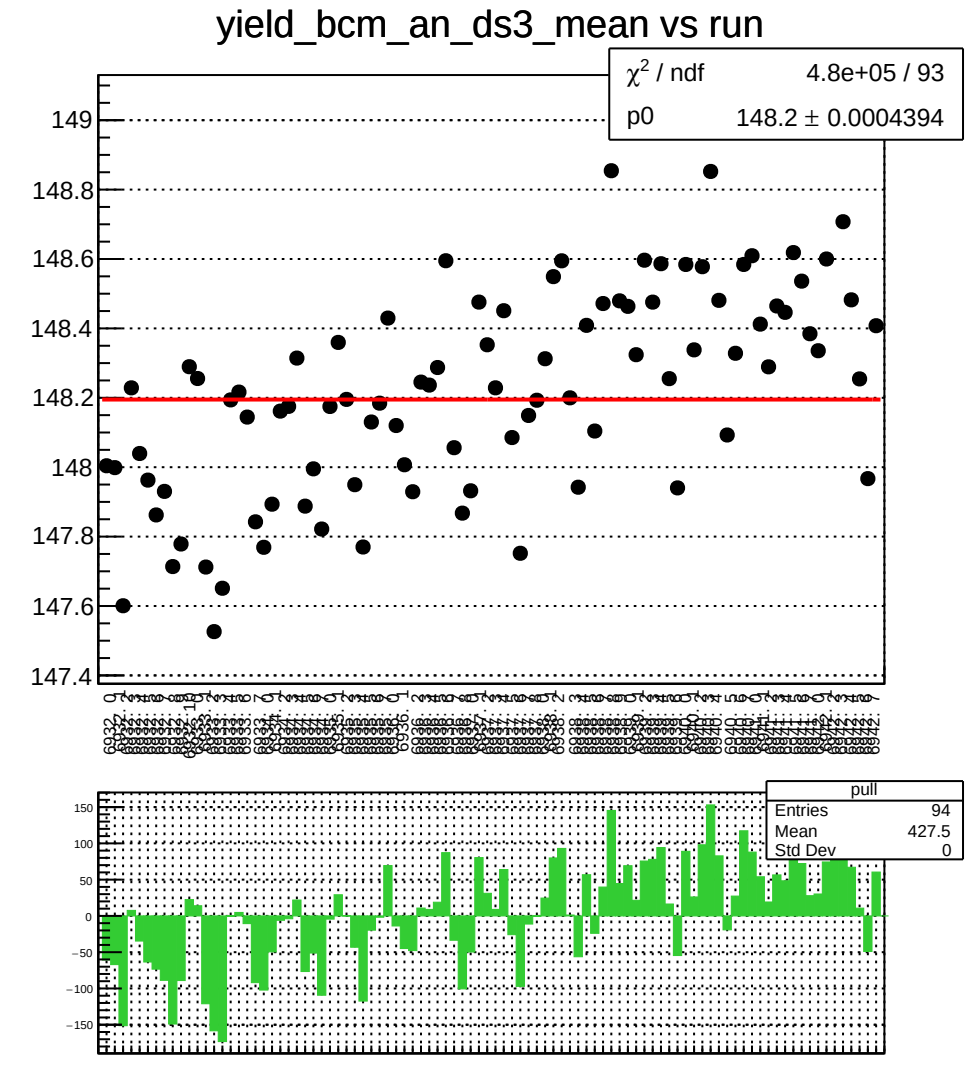

pull1D
Entries 94
Mean −3.469
Std Dev 5.358
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

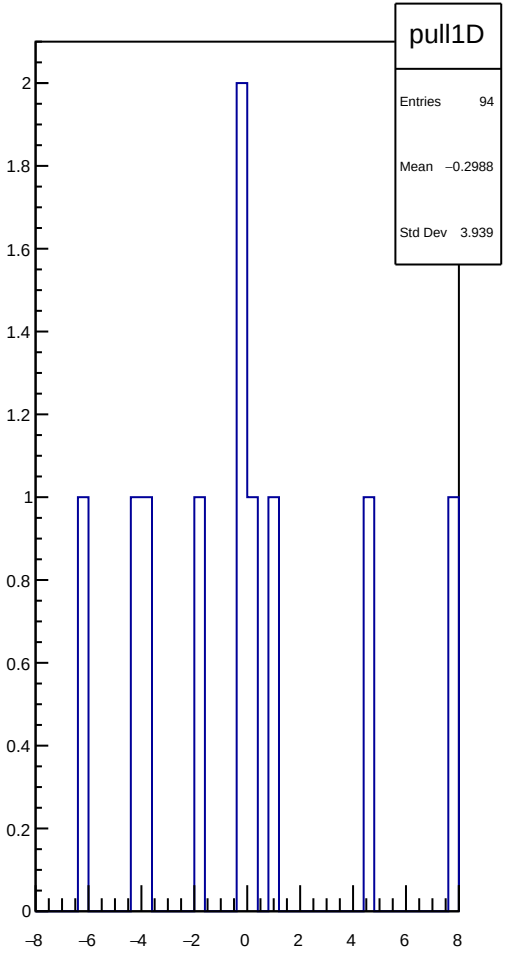

yield_bcm_an_diff_rms vs run
χ^2 / ndf 5.331e+04 / 93
p0 4699 ± 3.593
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000

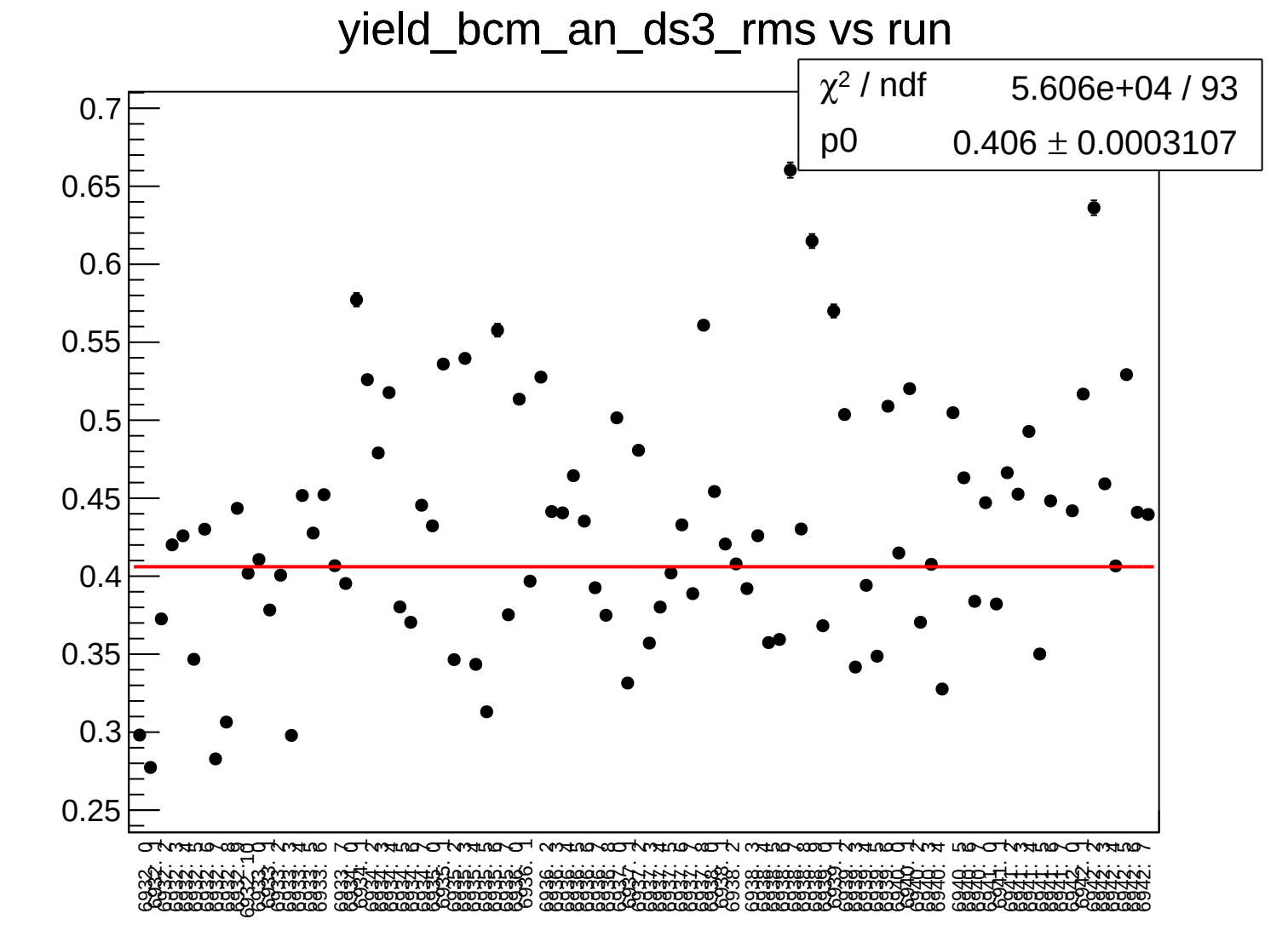

yield_bcm_an_ds_mean vs run
χ² / ndf 4.71e+05 / 93
p0 148.1± 0.0004376
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 428.5
Std Dev 0
150
100
50
0
−50
−100
−150

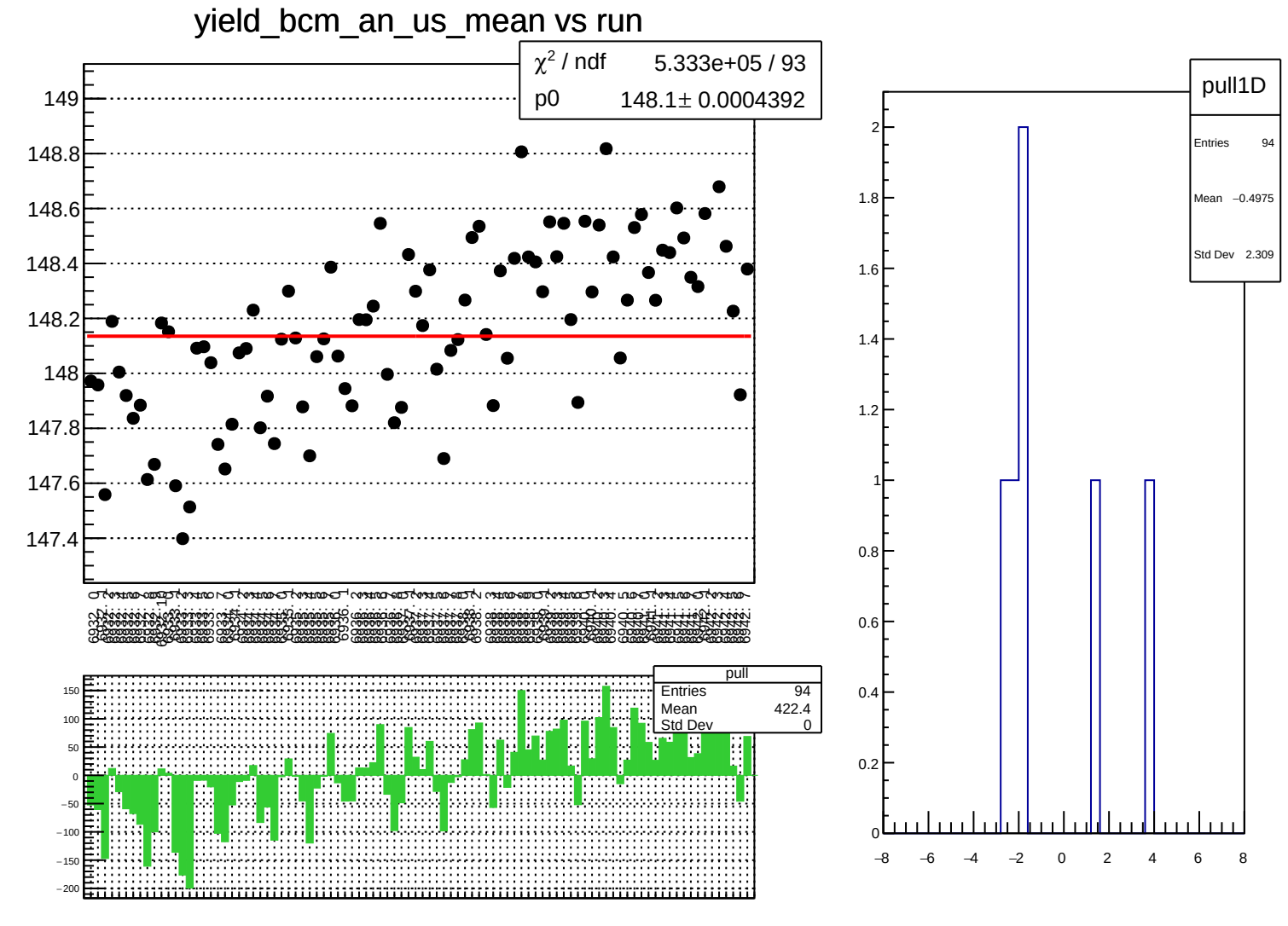

pull1D
Entries 94
Mean 0.1185
Std Dev 3.685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

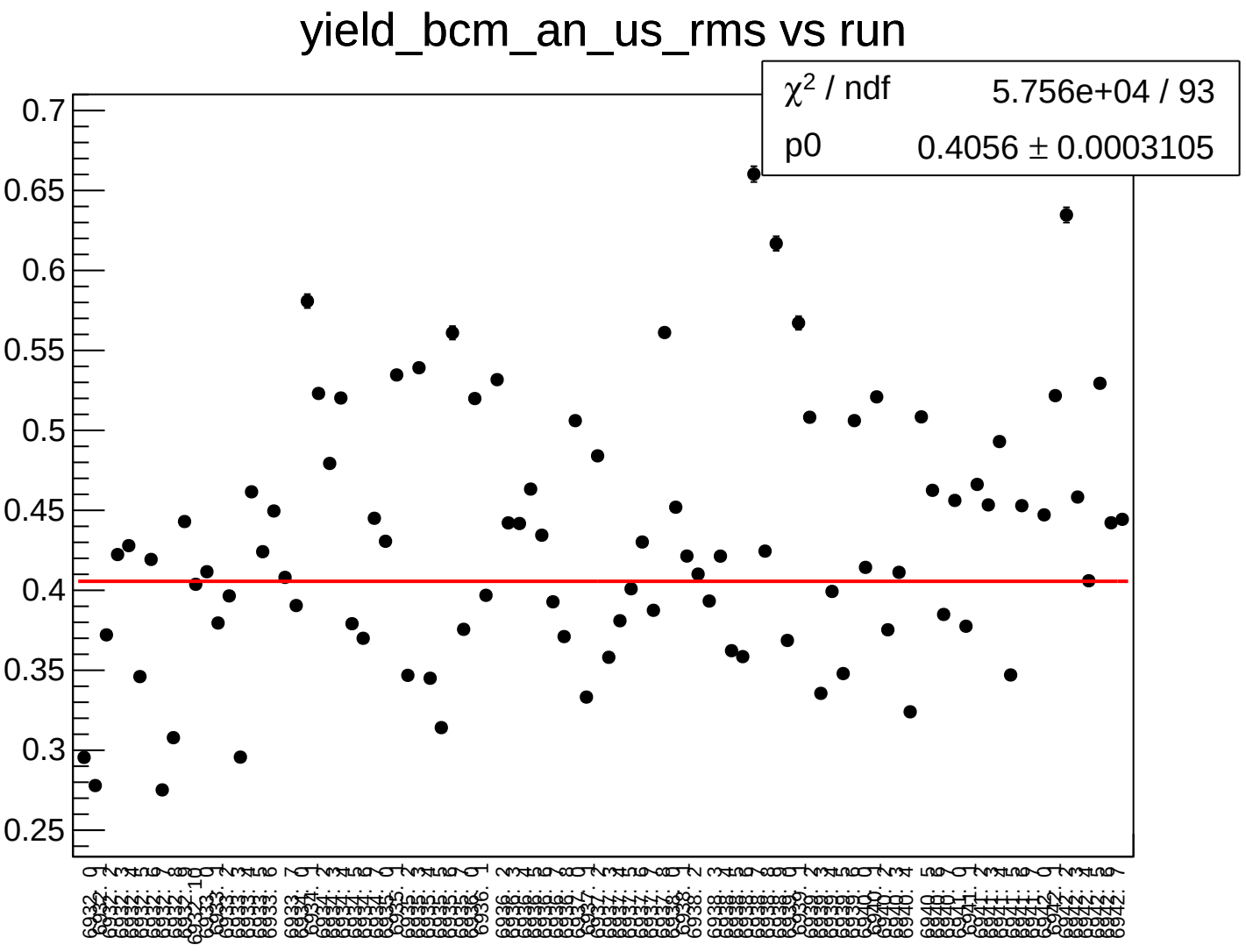

yield_bcm_an_ds_rms vs run
χ² / ndf 5.638e+04 / 93
p0 0.4043 ± 0.0003094
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

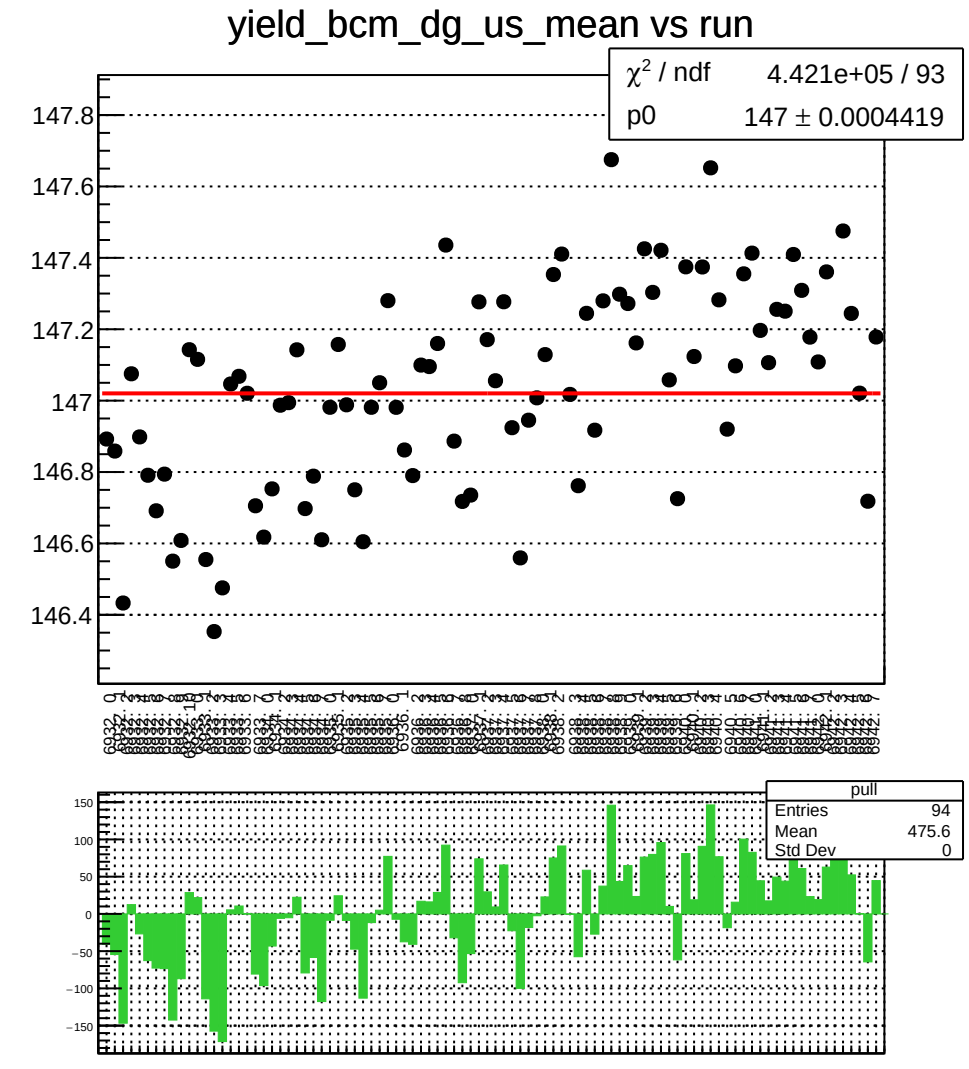

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.8e+05 / 93
p0 148.2 ± 0.0004394
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 427.5
Std Dev 0
150
100
50
0
−50
−100
−150

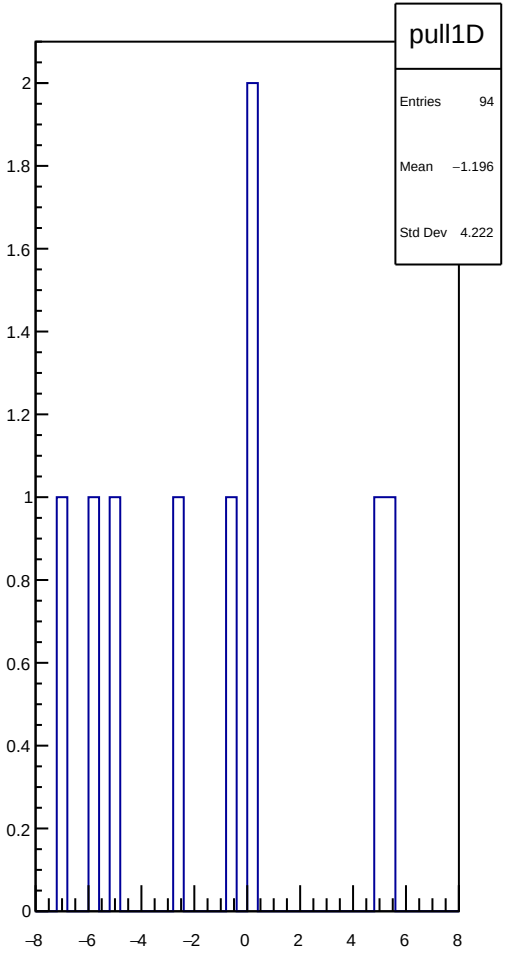

pull1D
Entries 94
Mean −0.2988
Std Dev 3.939
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

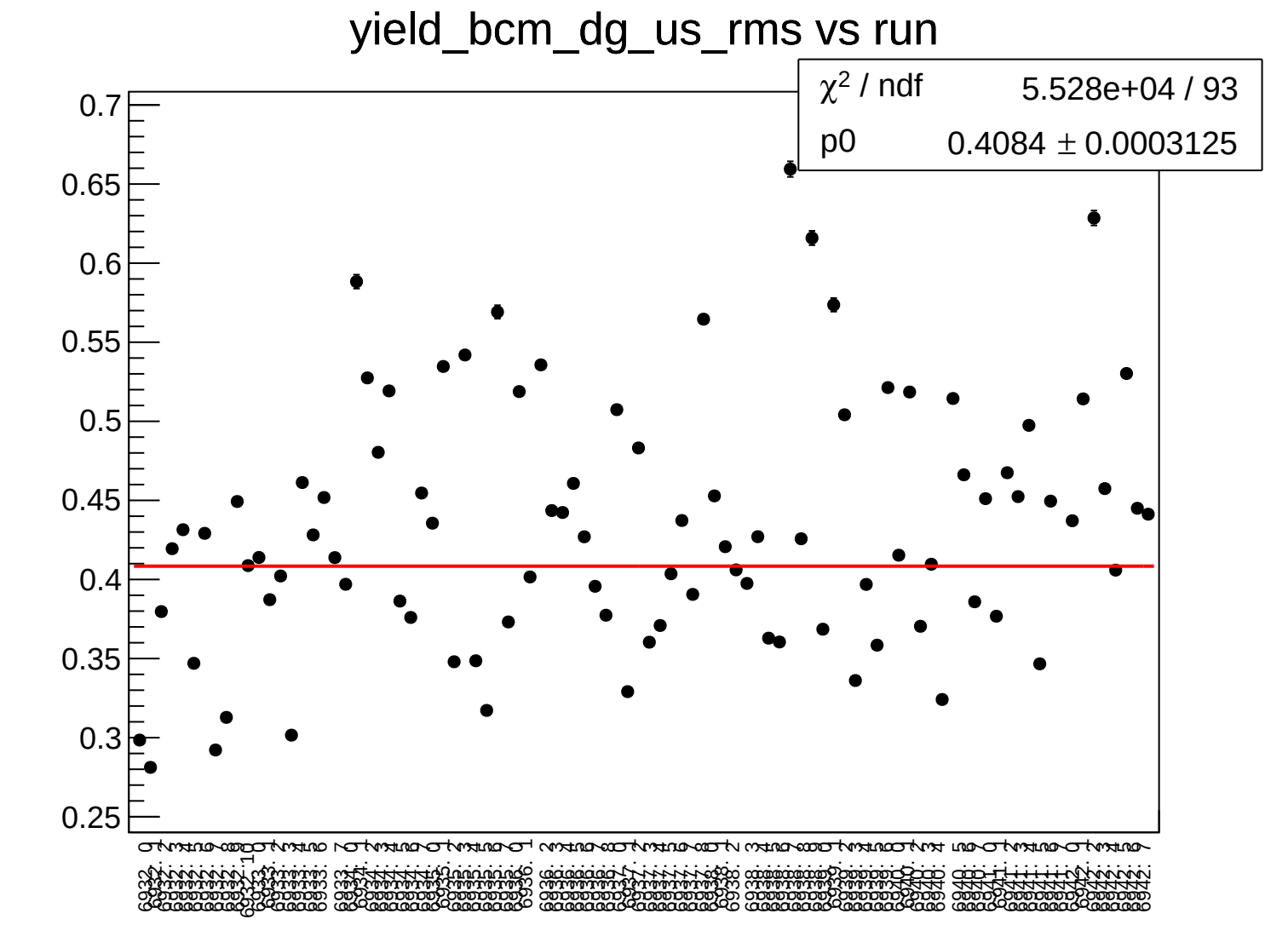

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.606e+04 / 93
p0 0.406 ± 0.0003107
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

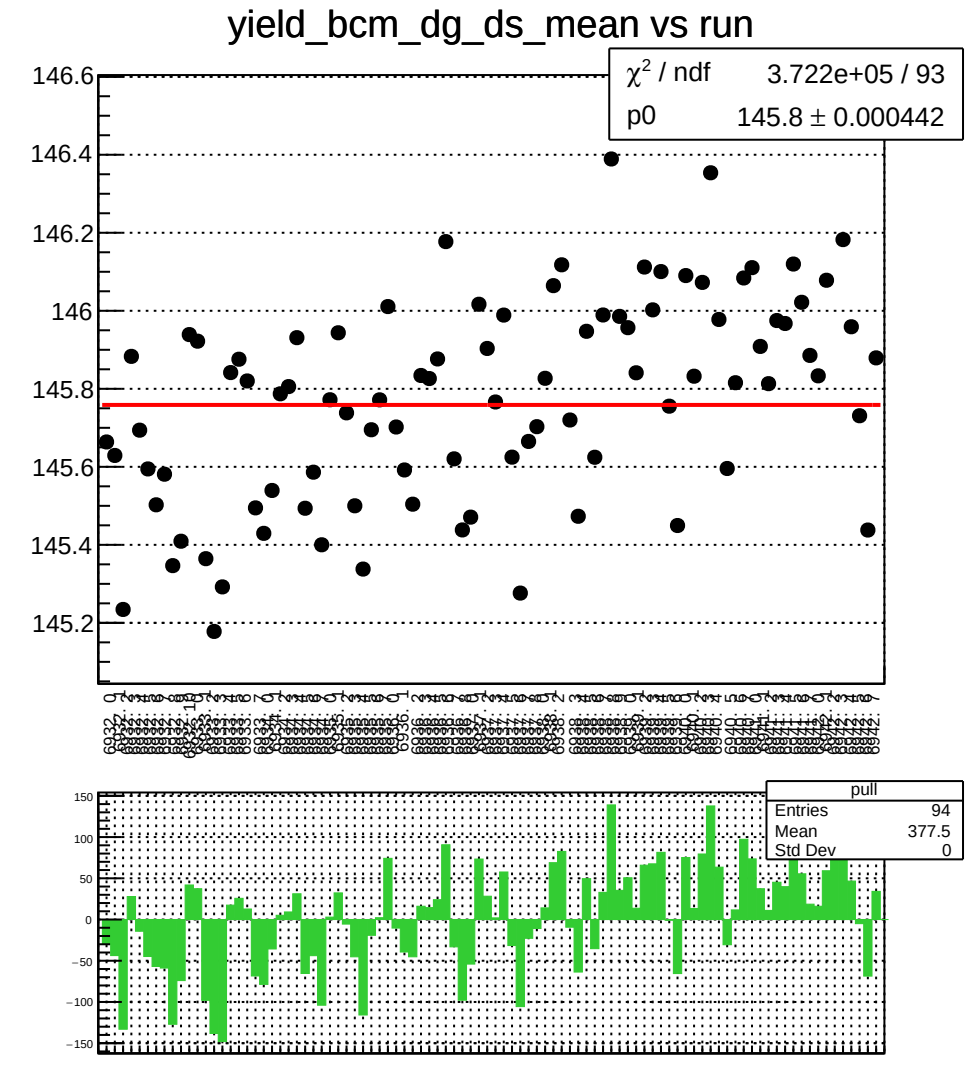

yield_bcm_an_us_mean vs run
χ² / ndf 5.333e+05 / 93
p0 148.1± 0.0004392
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 422.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −0.4975
Std Dev 2.309
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

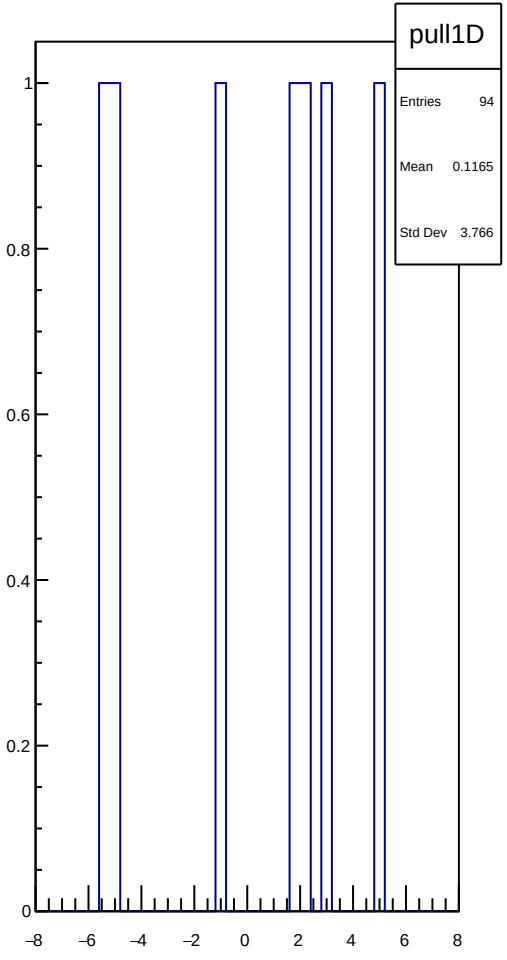

yield_bcm_an_us_rms vs run
χ² / ndf 5.756e+04 / 93
p0 0.4056 ± 0.0003105
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

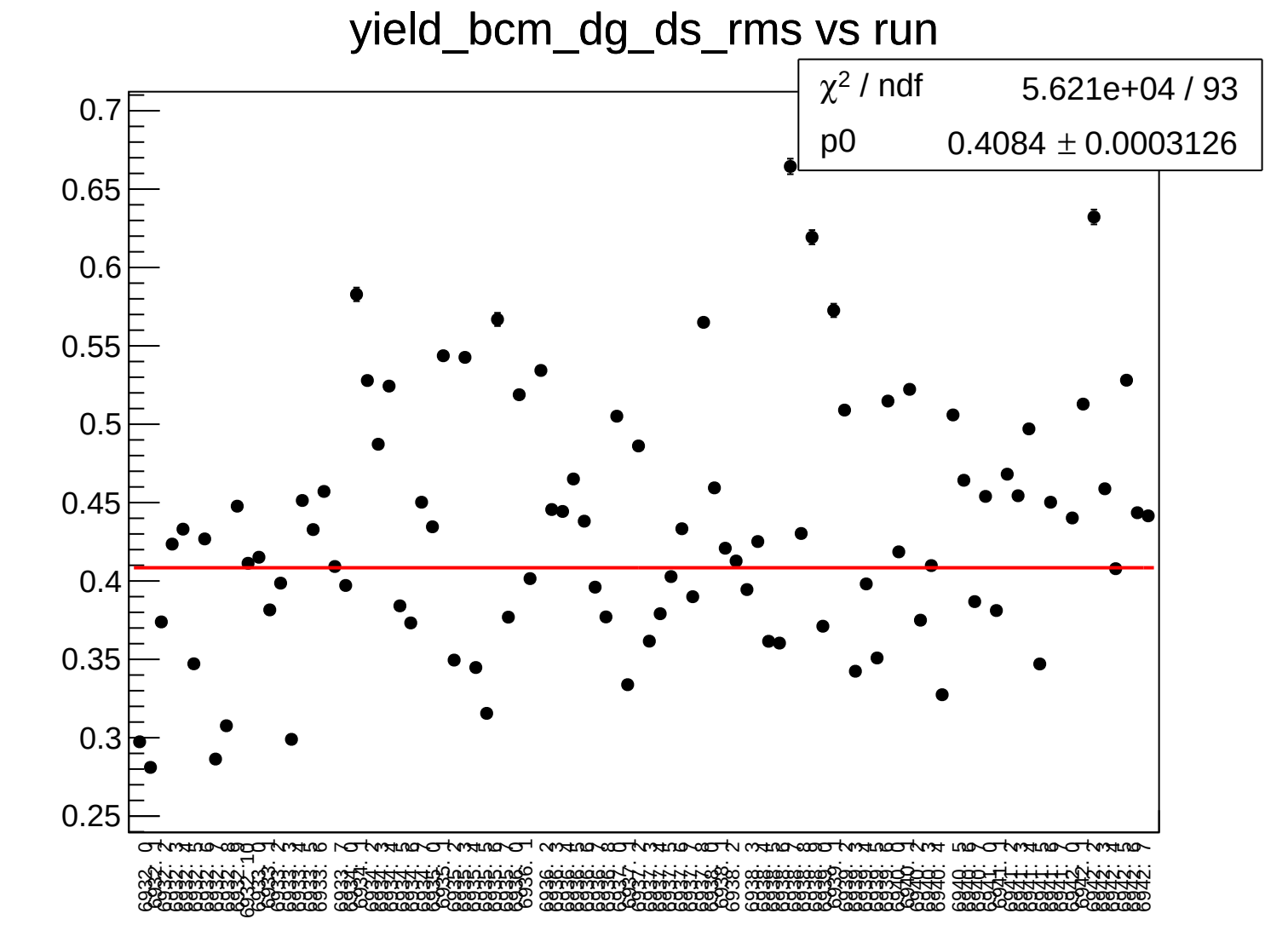

yield_bcm_dg_us_mean vs run
χ² / ndf 4.421e+05 / 93
p0 147 ± 0.0004419
147.8
147.6
147.4
147.2
147
146.8
146.6
146.4
pull
Entries 94
Mean 475.6
Std Dev 0
150
100
50
0
−50
−100
−150

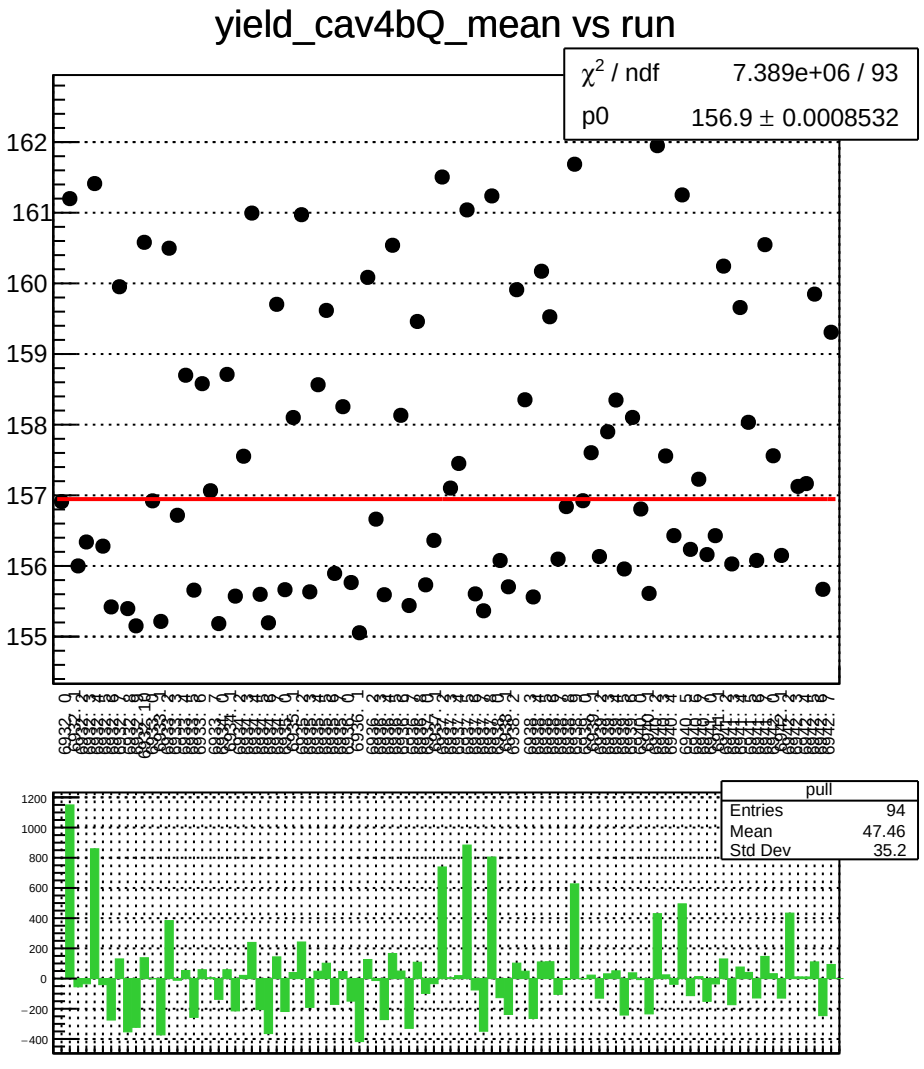

pull1D
Entries 94
Mean −1.196
Std Dev 4.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

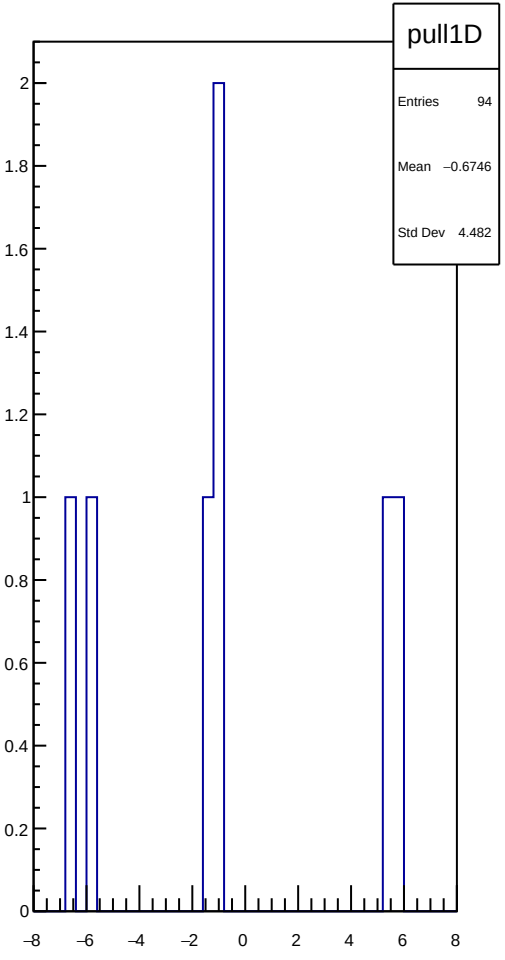

yield_bcm_dg_us_rms vs run
χ² / ndf 5.528e+04 / 93
p0 0.4084 ± 0.0003125
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

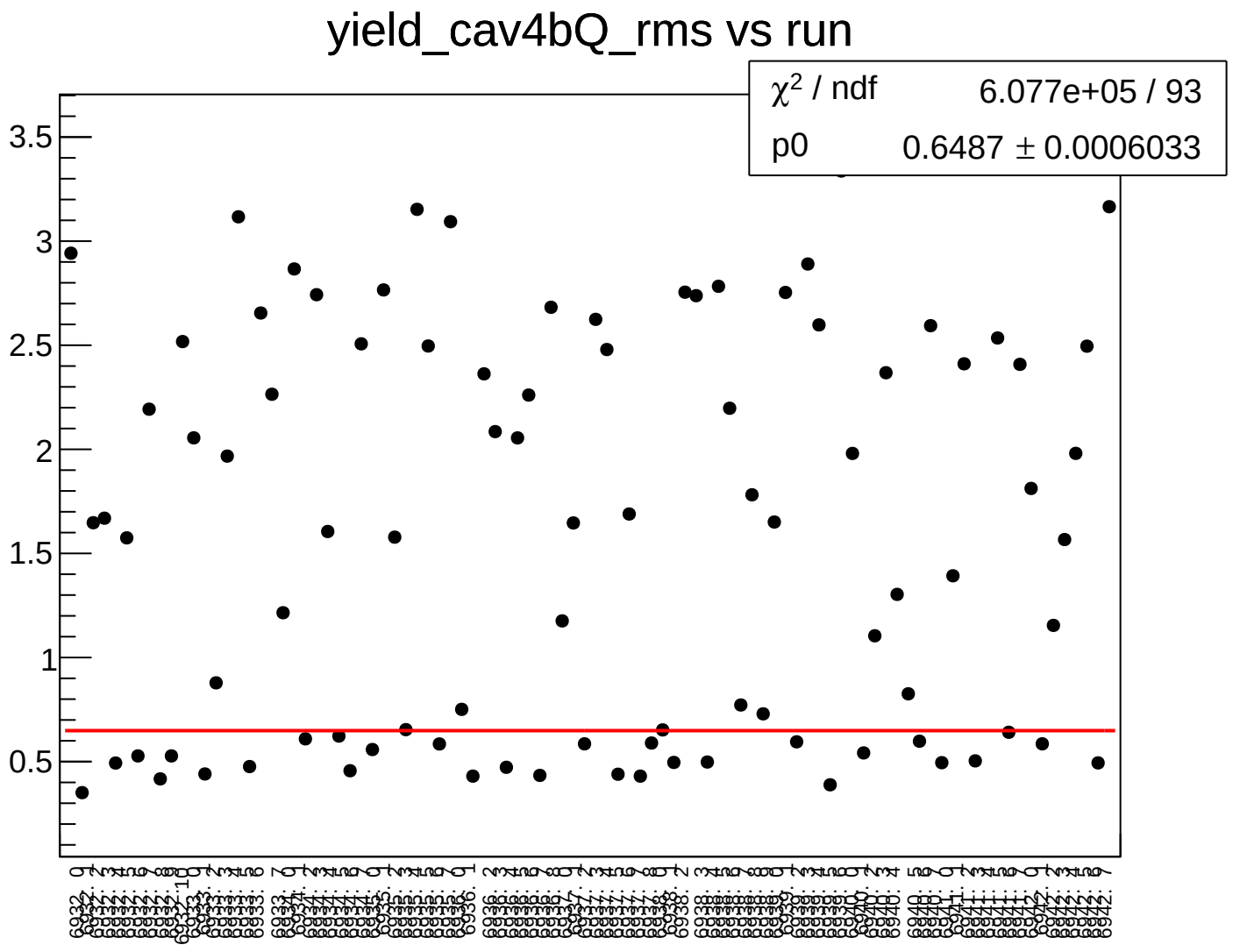

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.722e+05 / 93
p0 145.8 ± 0.000442
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 94
Mean 377.5
Std Dev 0
150
100
50
0
−50
−100
−150

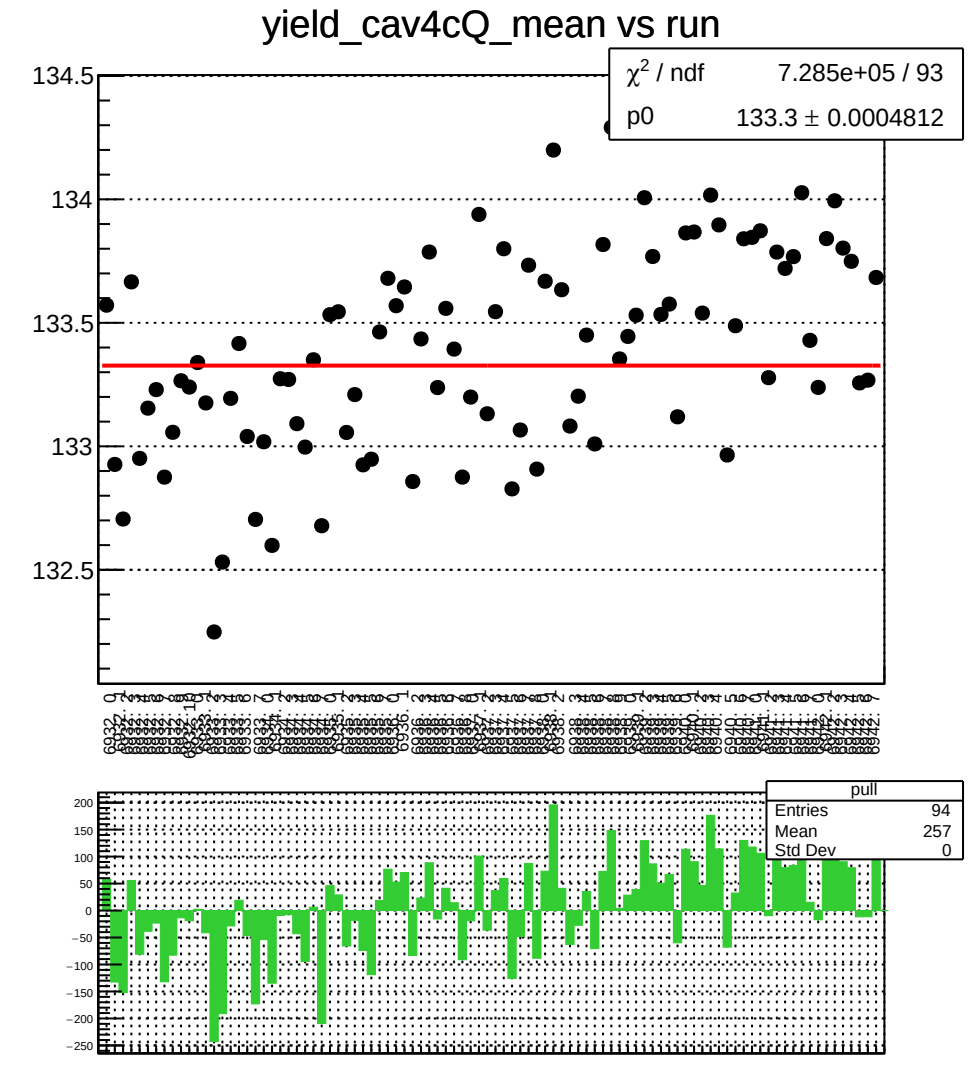

pull1D
Entries 94
Mean 0.1165
Std Dev 3.766
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

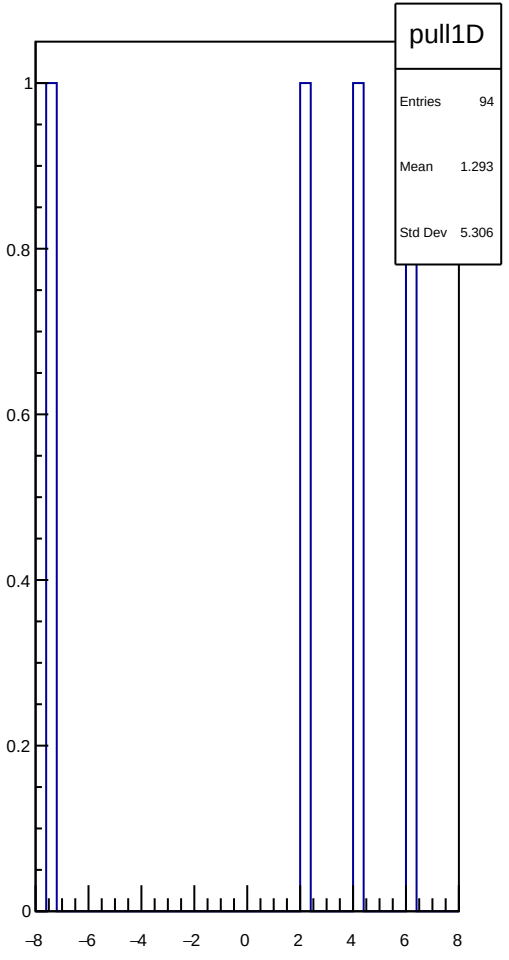

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.621e+04 / 93
p0 0.4084 ± 0.0003126
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

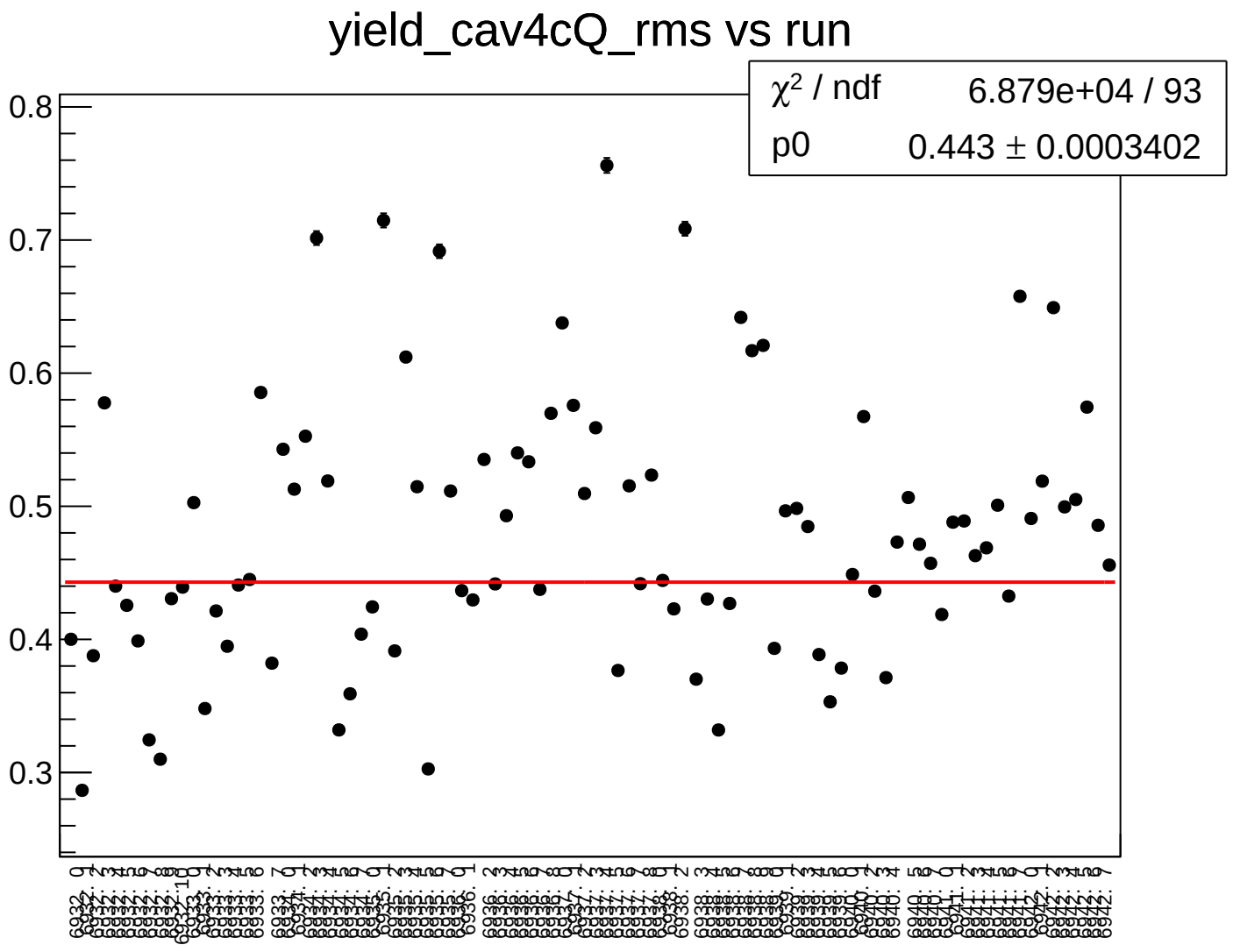

yield_cav4bQ_mean vs run
χ² / ndf 7.389e+06 / 93
p0 156.9 ± 0.0008532
pull
Entries 94
Mean 47.46
Std Dev 35.2

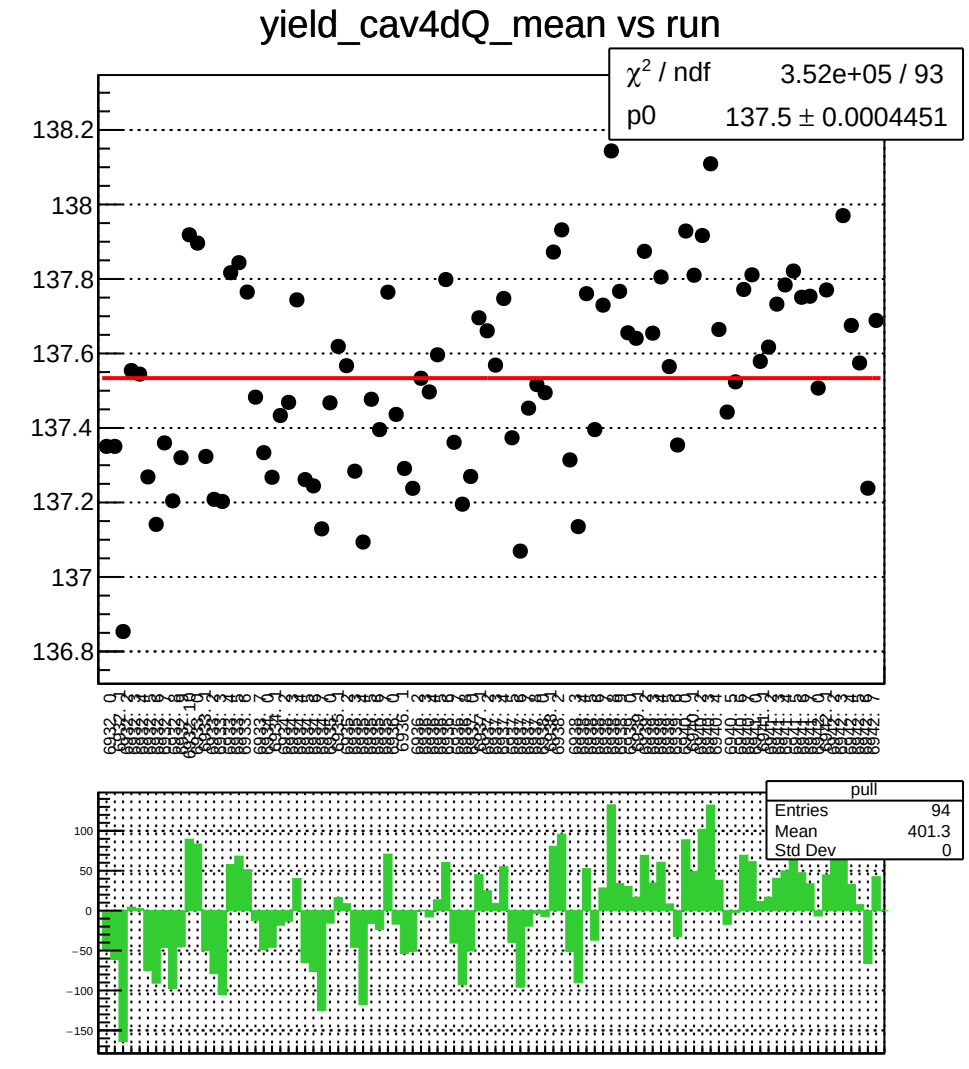

pull1D
Entries 94
Mean −0.6746
Std Dev 4.482

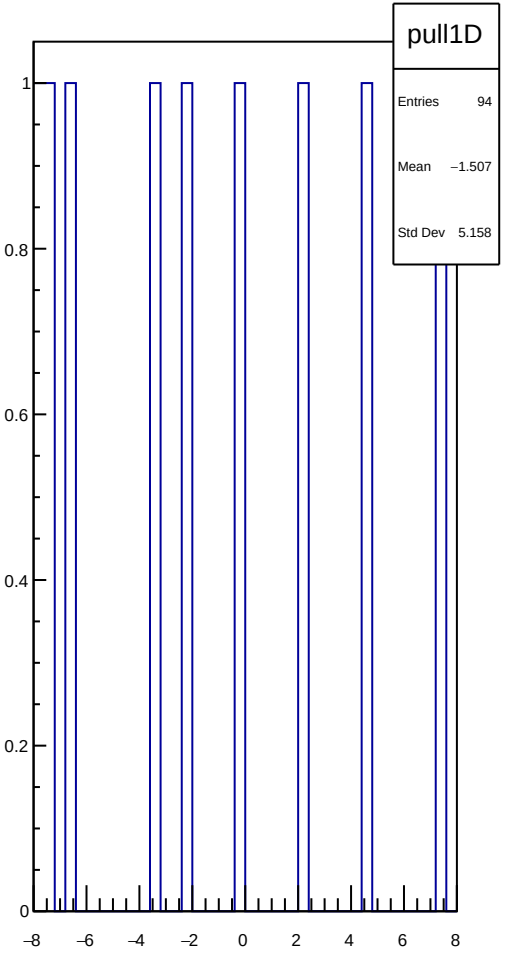

yield_cav4bQ_rms vs run
χ² / ndf 6.077e+05 / 93
p0 0.6487 ± 0.0006033
3.5
3
2.5
2
1.5
1
0.5

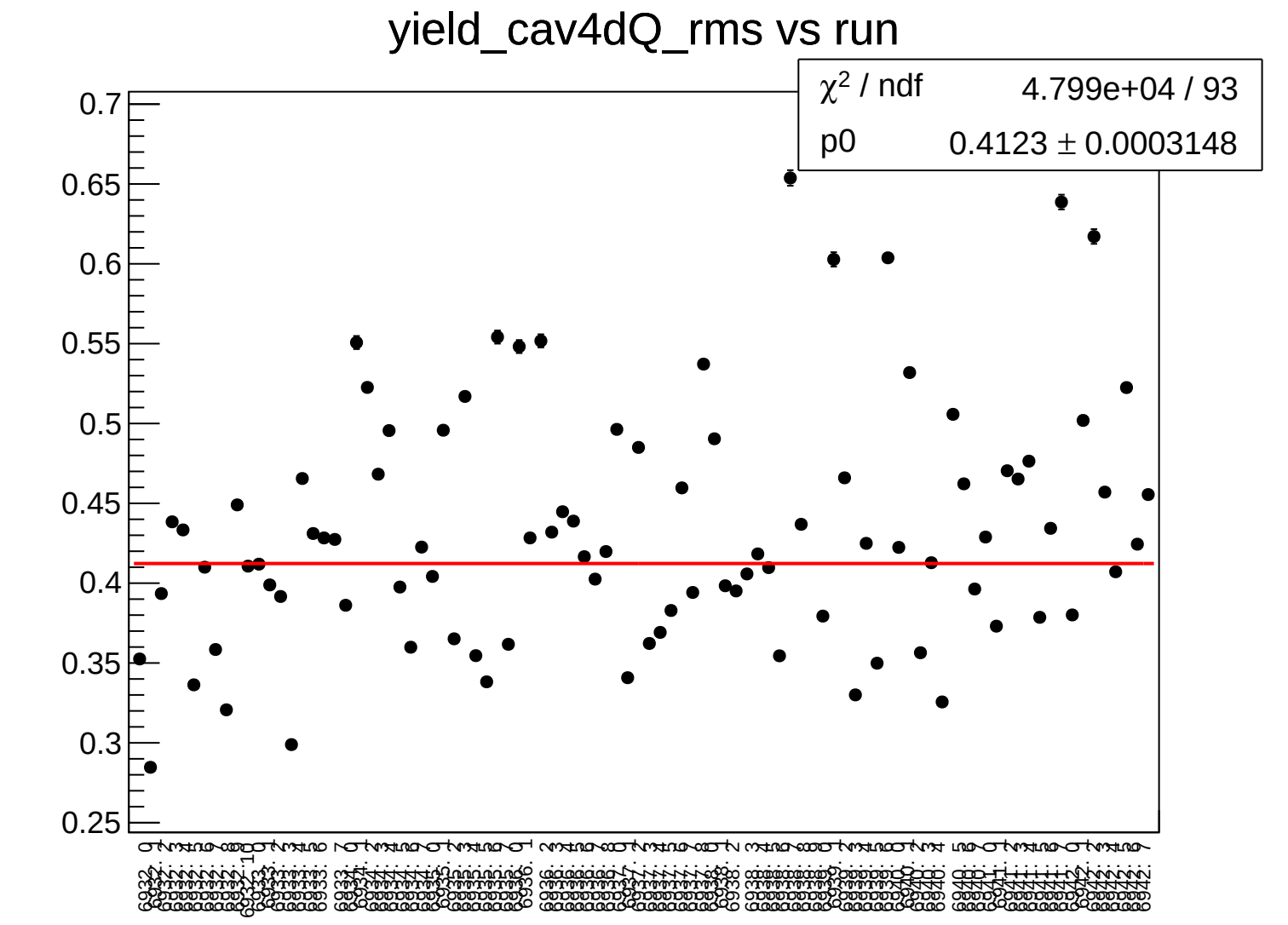

yield_cav4cQ_mean vs run
χ² / ndf 7.285e+05 / 93
p0 133.3 ± 0.0004812
134.5
134
133.5
133
132.5
pull
Entries 94
Mean 257
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

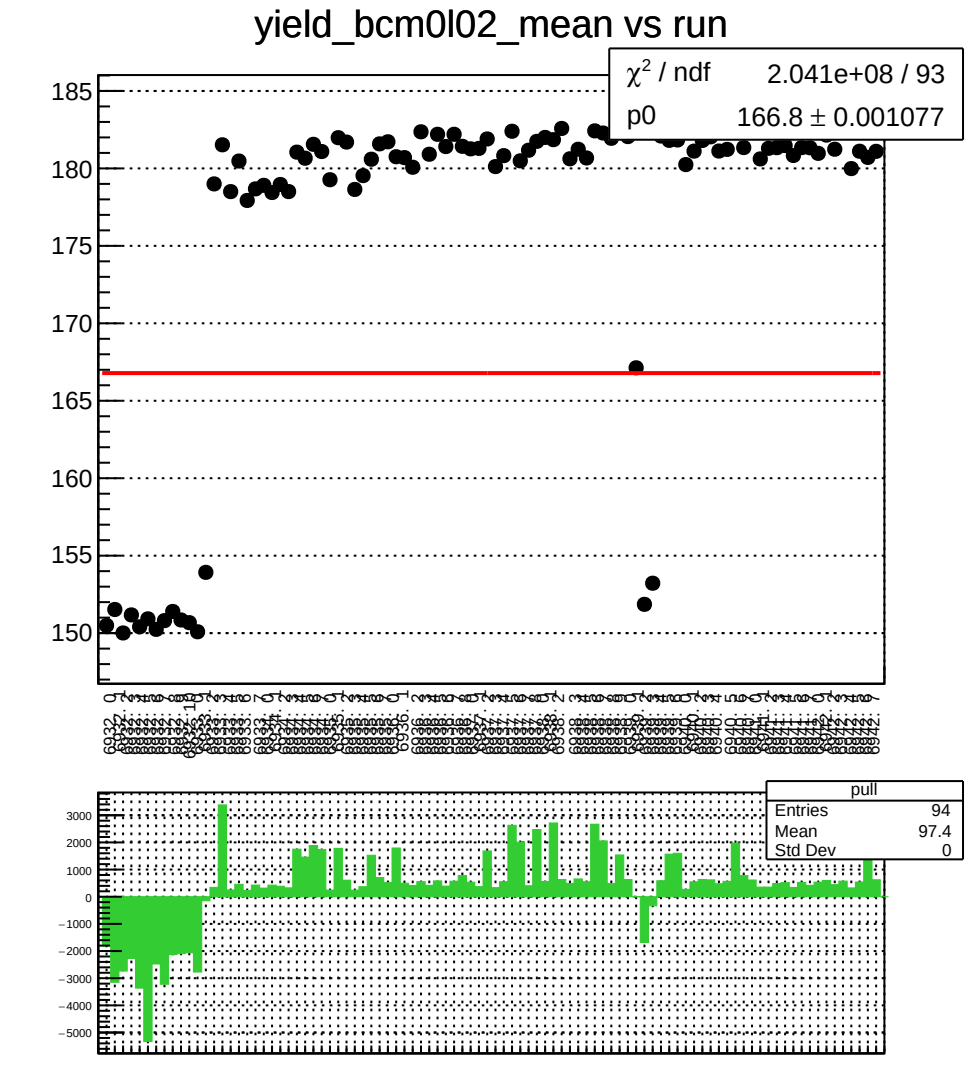

pull1D
Entries 94
Mean 1.293
Std Dev 5.306
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

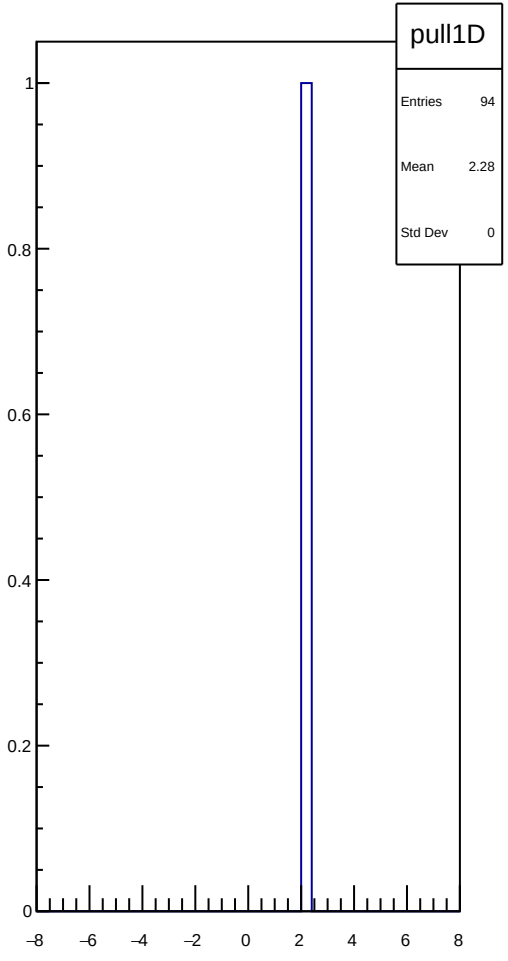

yield_cav4cQ_rms vs run
χ² / ndf 6.879e+04 / 93
p0 0.443 ± 0.0003402
0.8
0.7
0.6
0.5
0.4
0.3

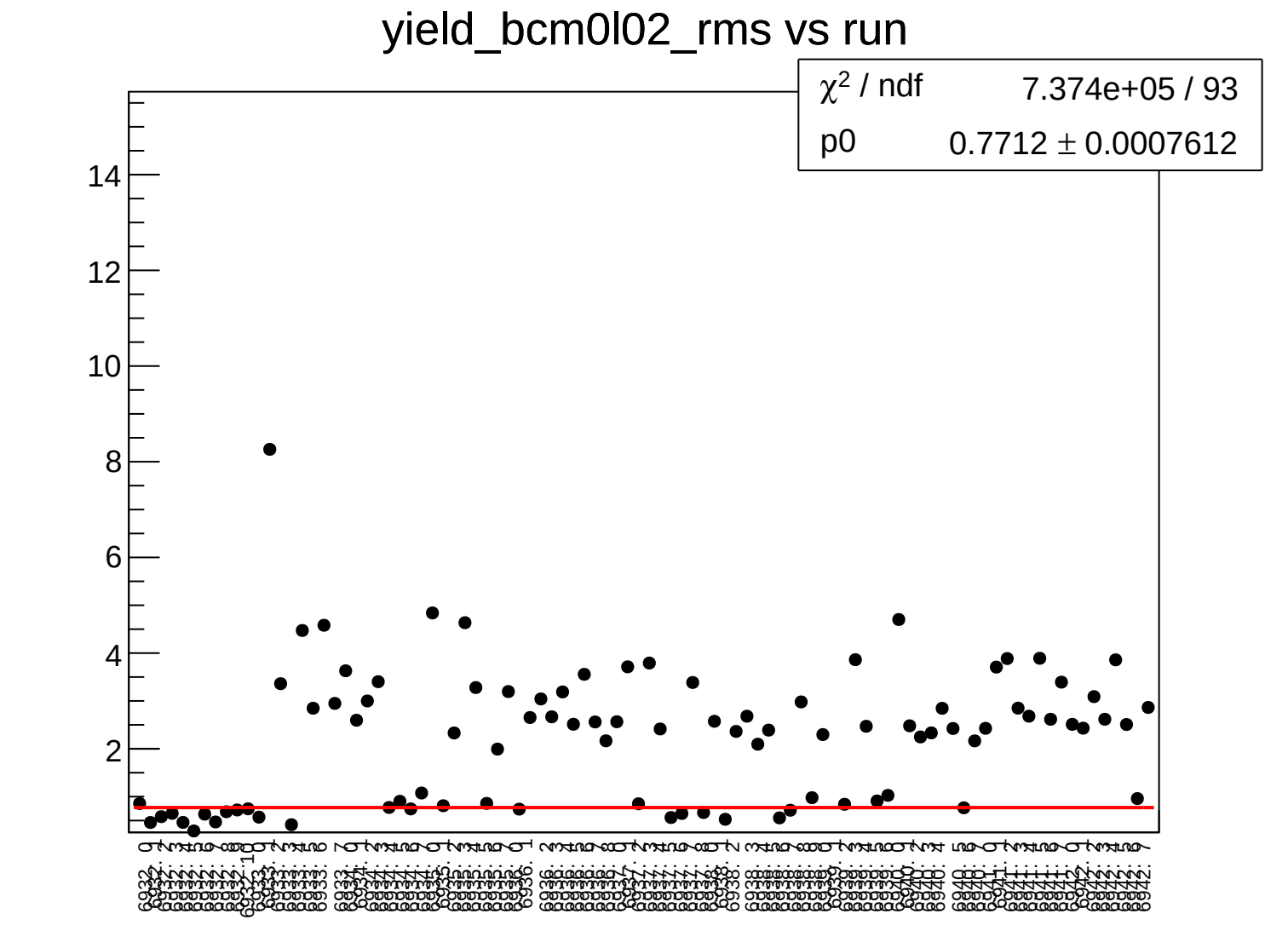

yield_cav4dQ_mean vs run
χ² / ndf 3.52e+05 / 93
p0 137.5 ± 0.0004451
138.2
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 94
Mean 401.3
Std Dev 0
100
50
0
−50
−100
−150

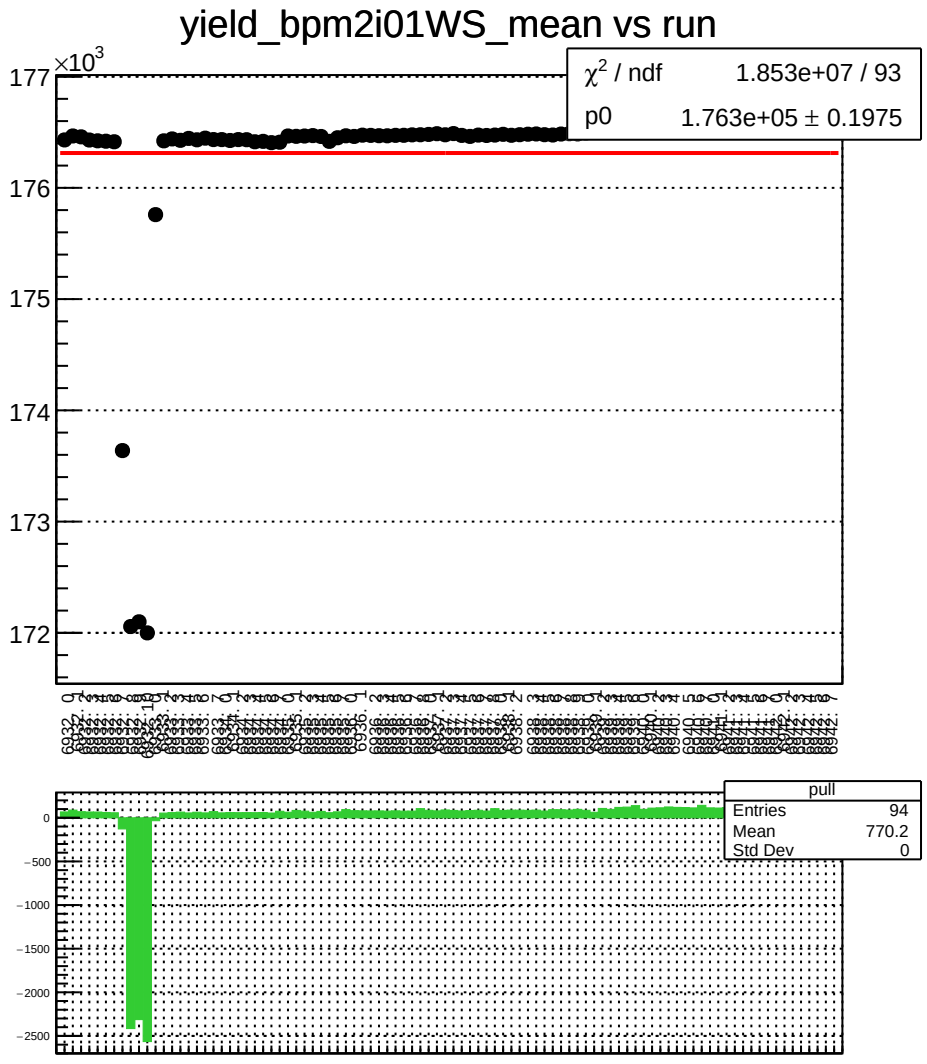

pull1D
Entries 94
Mean −1.507
Std Dev 5.158
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

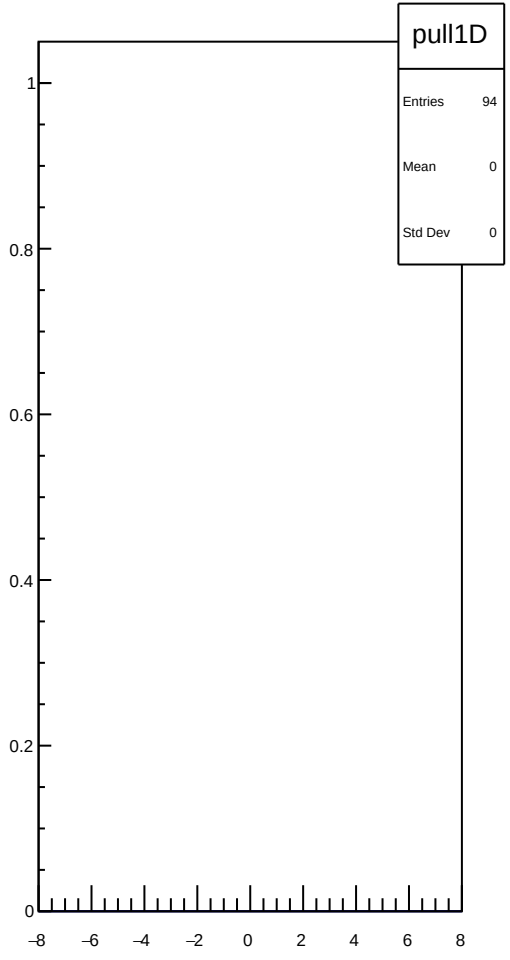

yield_cav4dQ_rms vs run
χ² / ndf 4.799e+04 / 93
p0 0.4123 ± 0.0003148
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25

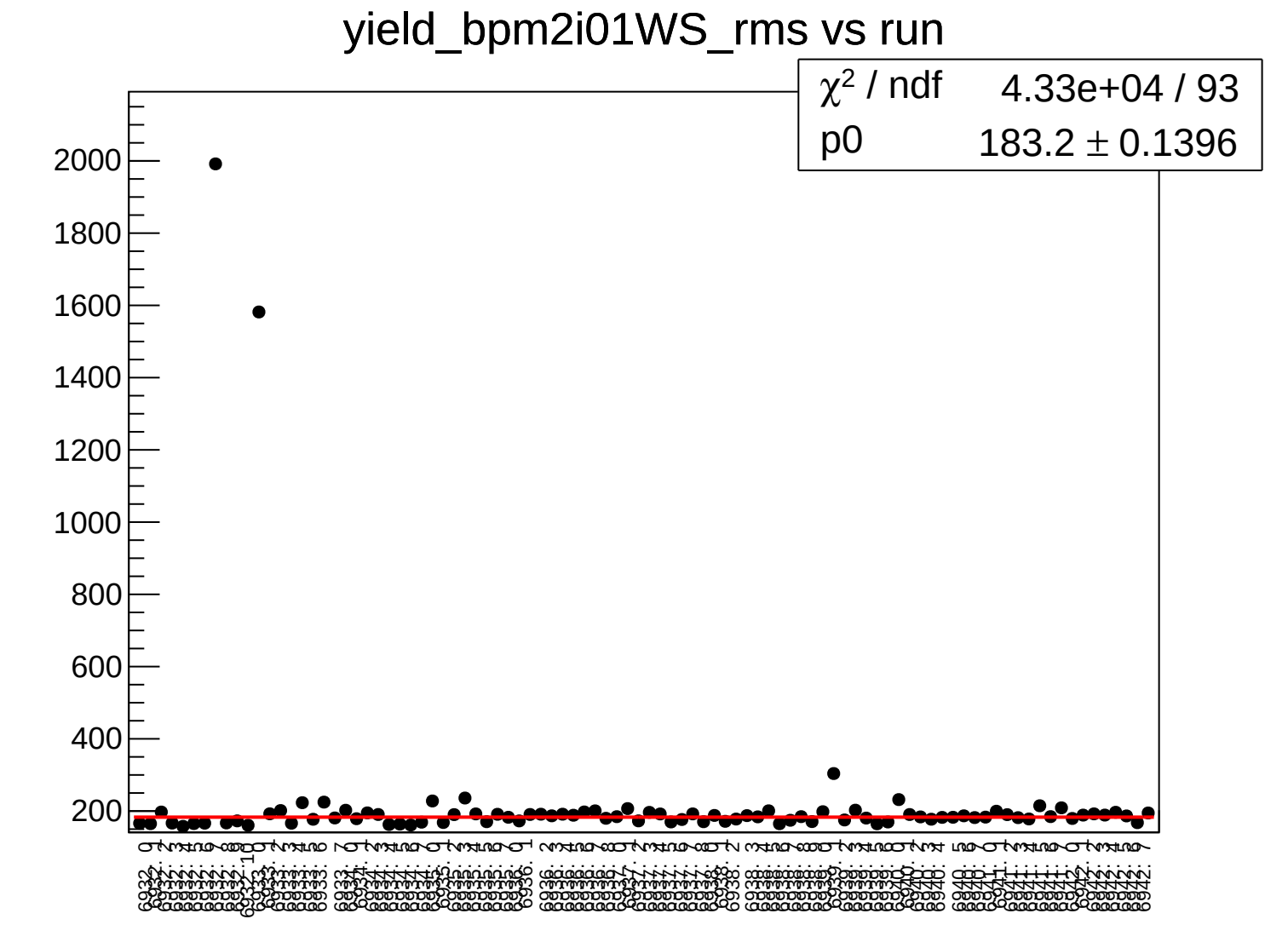

yield_bcm0l02_mean vs run
χ² / ndf 2.041e+08 / 93
p0 166.8 ± 0.001077
185
180
175
170
165
160
155
150
pull
Entries 94
Mean 97.4
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

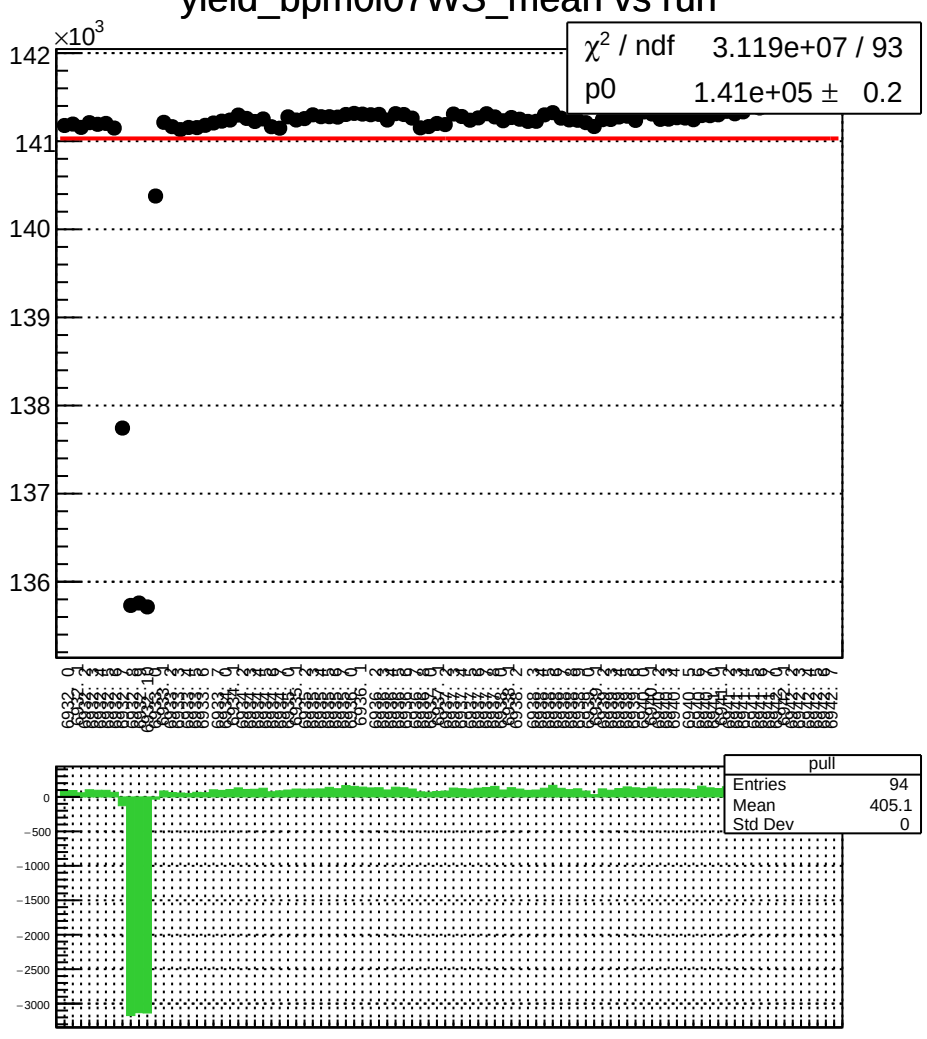

pull1D
Entries 94
Mean 2.28
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

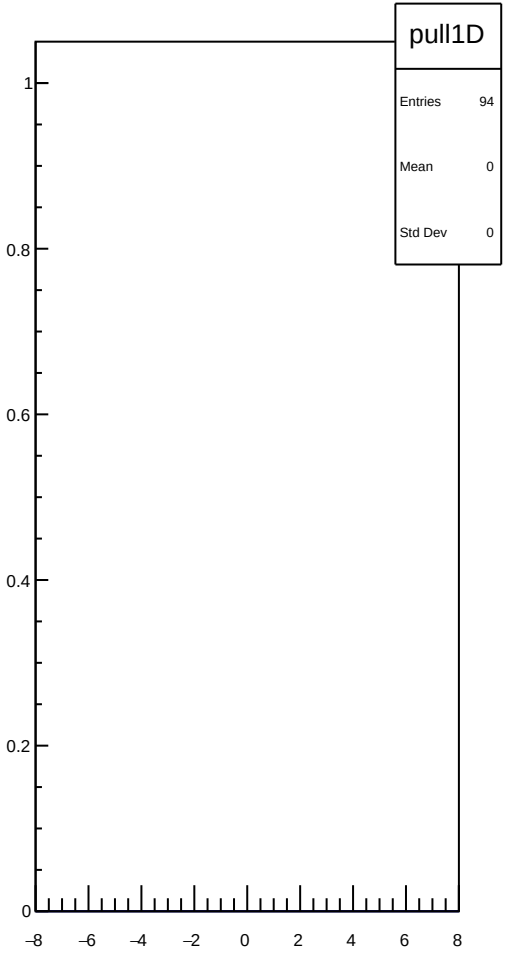

yield_bcm0l02_rms vs run
χ² / ndf 7.374e+05 / 93
p0 0.7712 ± 0.0007612
14
12
10
8
6
4
2

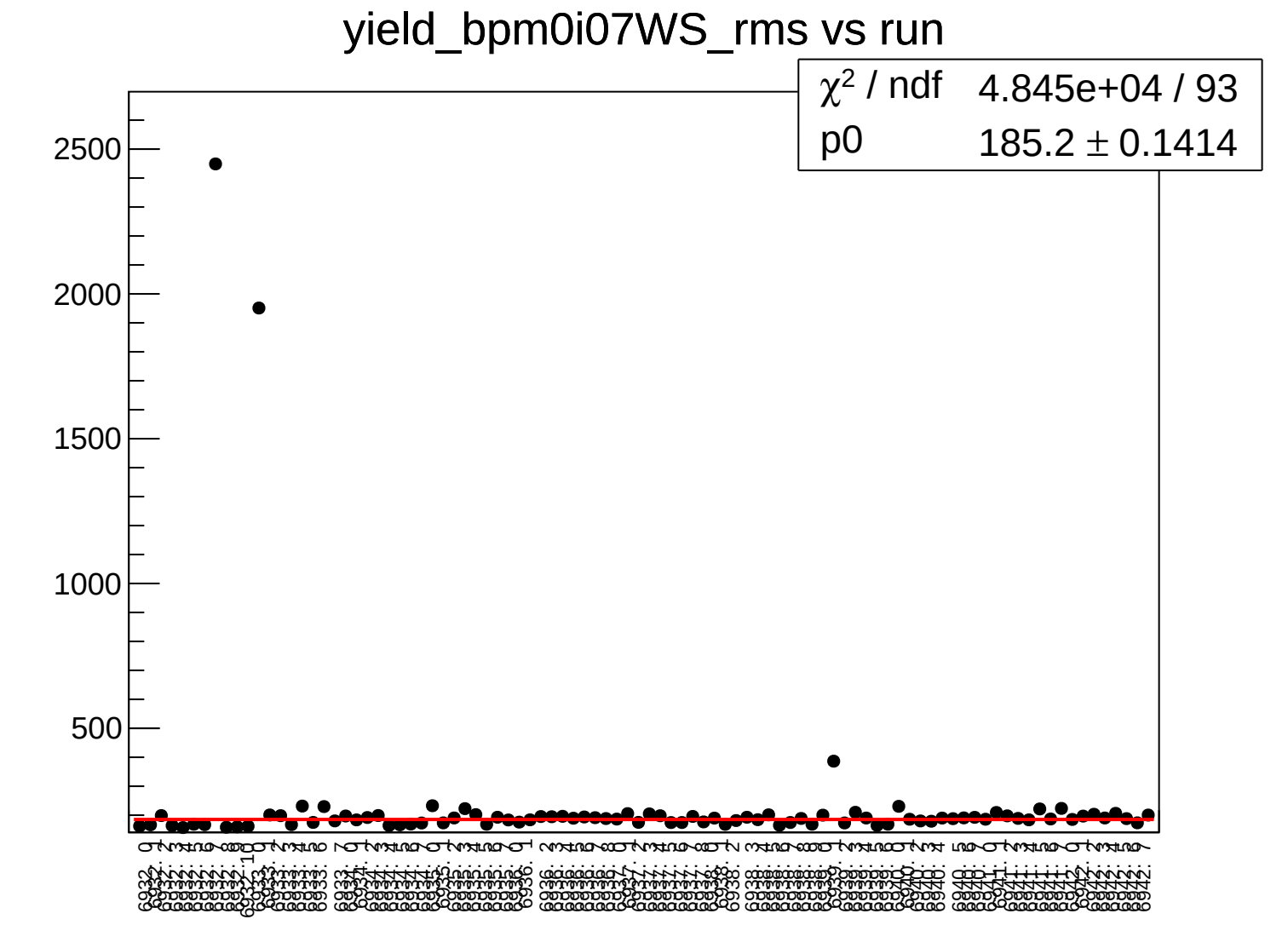

yield_bpm2i01WS_mean vs run
×10^3
177
176
175
174
173
172
χ² / ndf 1.853e+07 / 93
p0 1.763e+05 ± 0.1975
pull
Entries 94
Mean 770.2
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

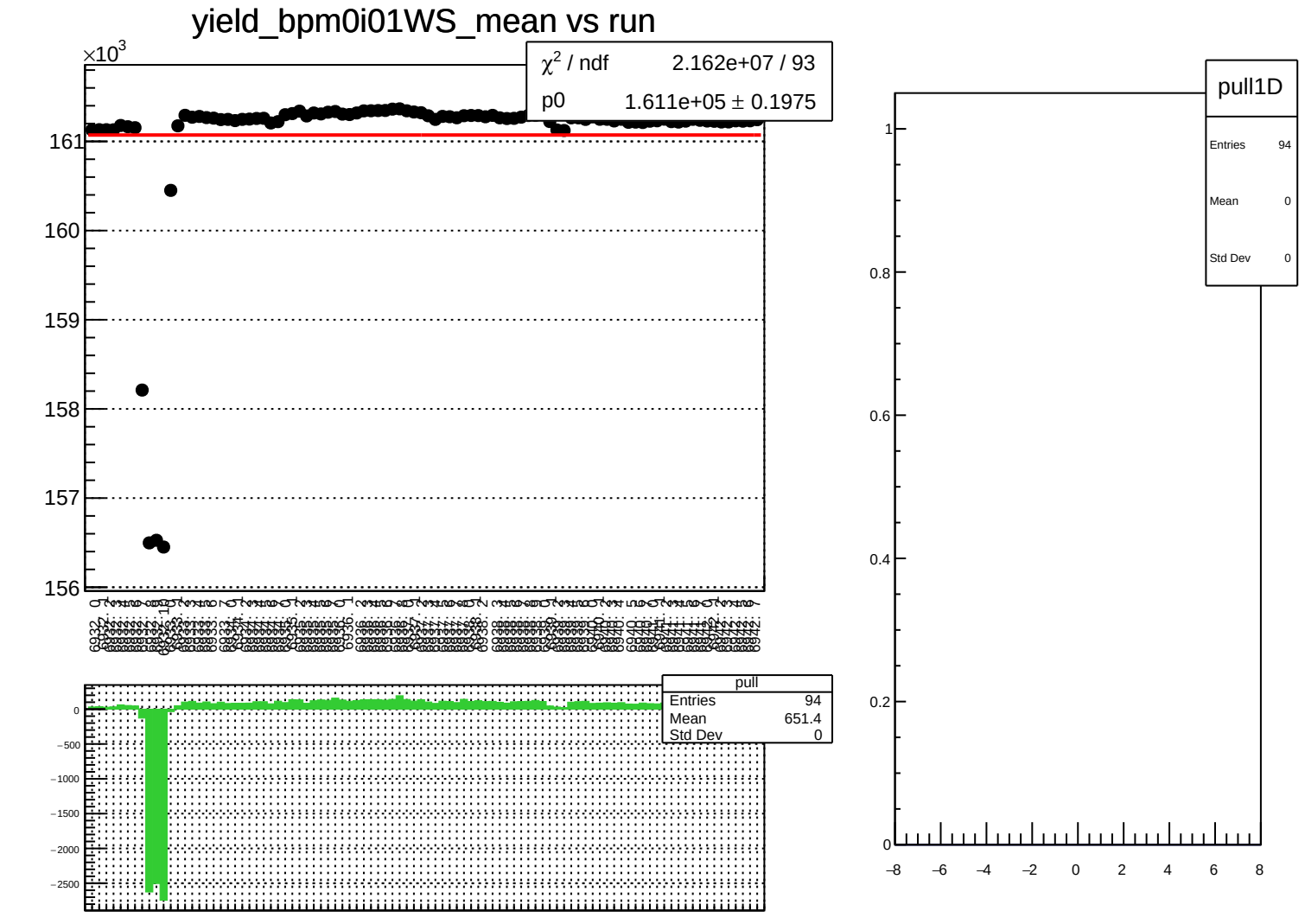

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

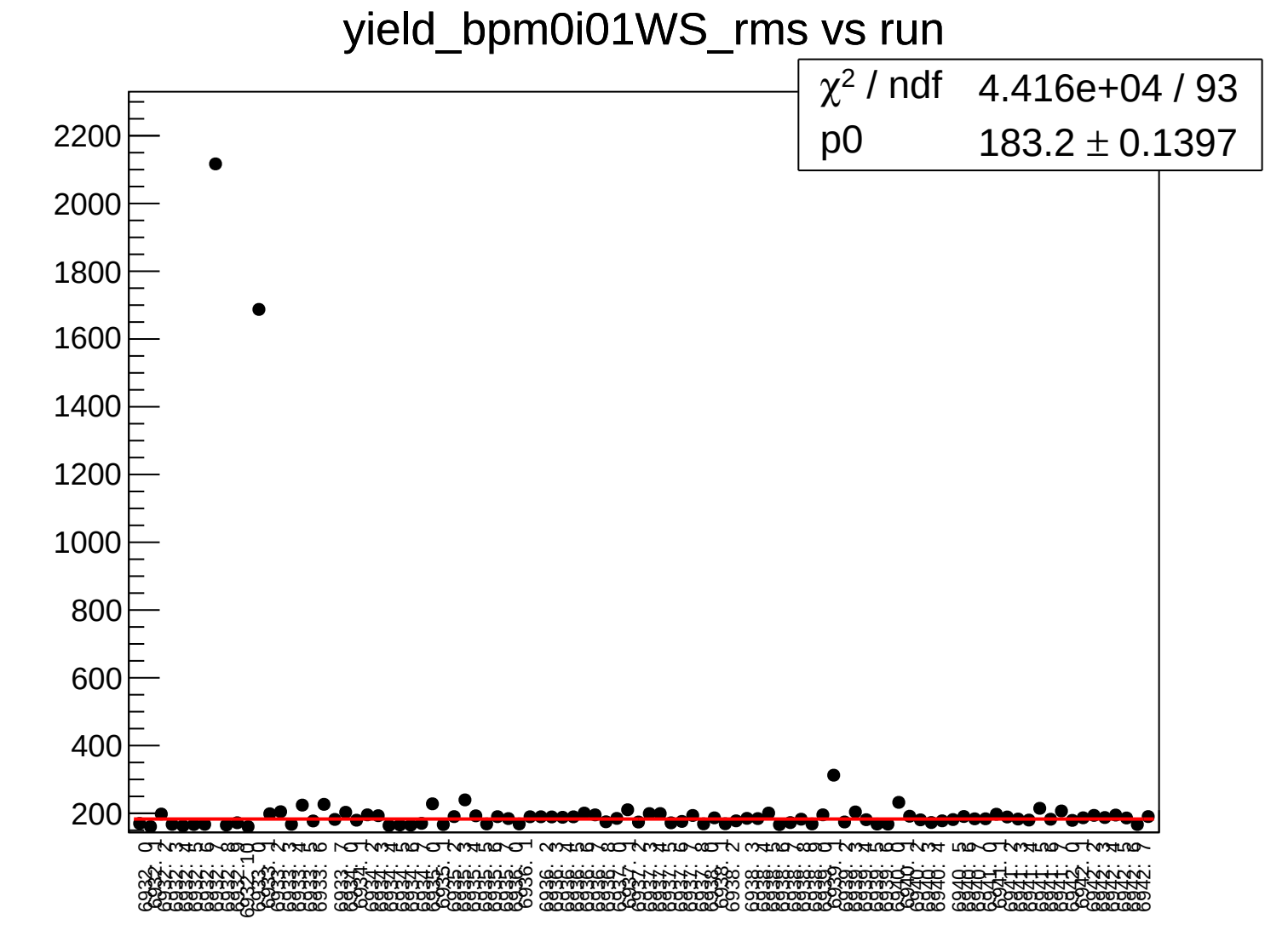

yield_bpm2i01WS_rms vs run
χ² / ndf 4.33e+04 / 93
p0 183.2 ± 0.1396
2000
1800
1600
1400
1200
1000
800
600
400
200

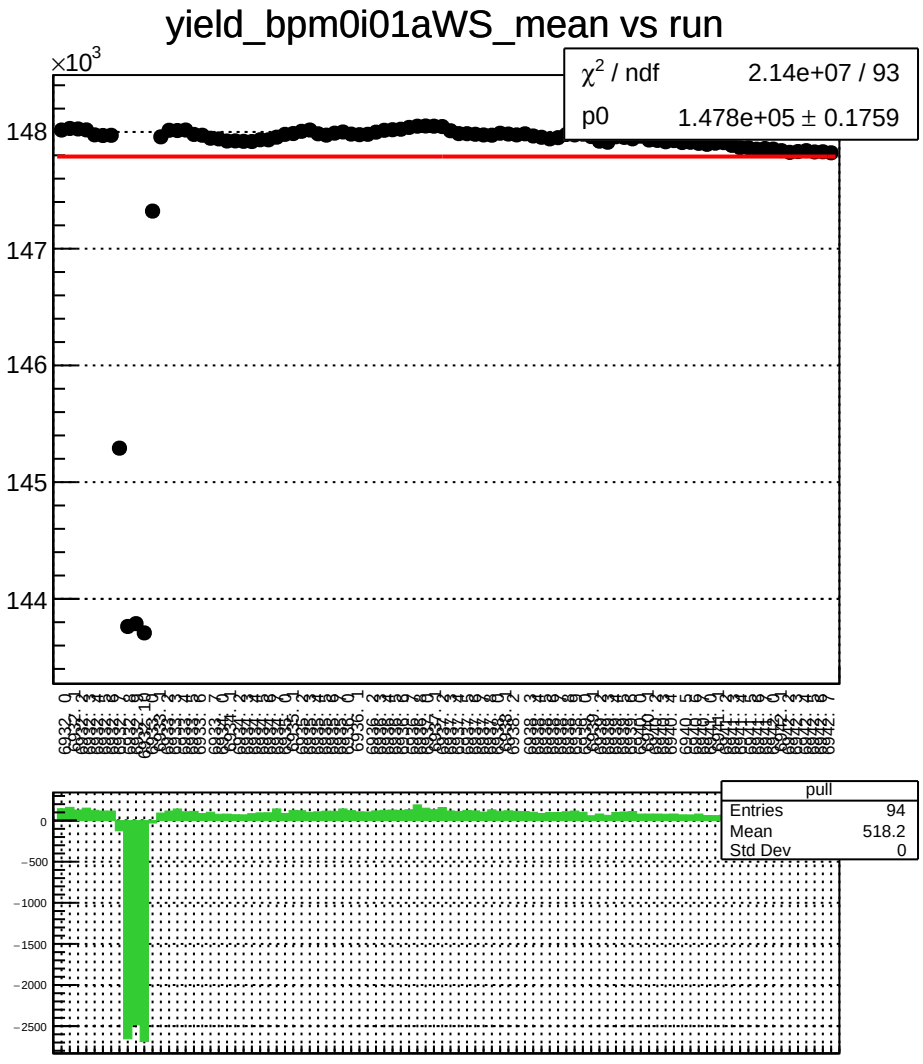

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.119e+07 / 93
p0 1.41e+05 ± 0.2
142
141
140
139
138
137
136
pull
Entries 94
Mean 405.1
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

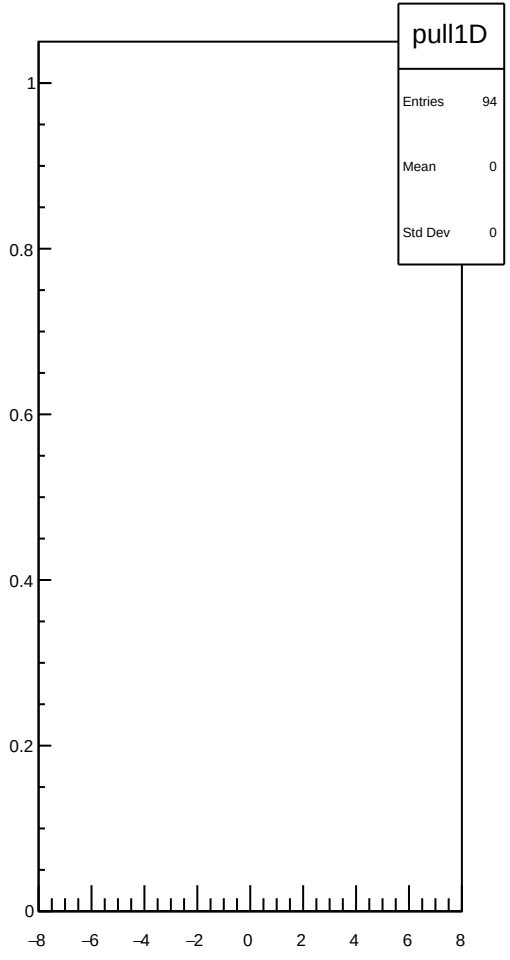

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

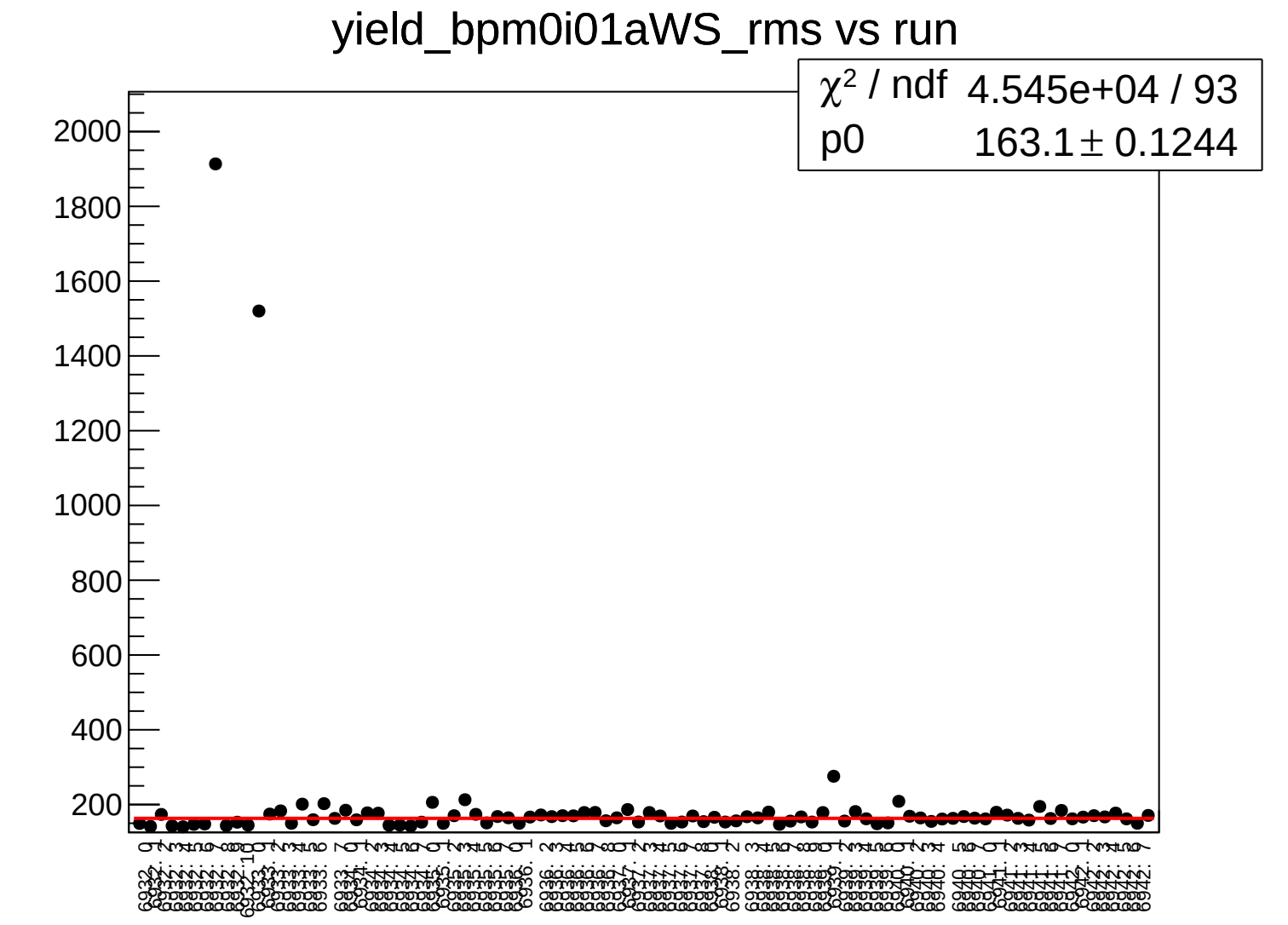

yield_bpm0i07WS_rms vs run
χ² / ndf 4.845e+04 / 93
p0 185.2 ± 0.1414
2500
2000
1500
1000
500

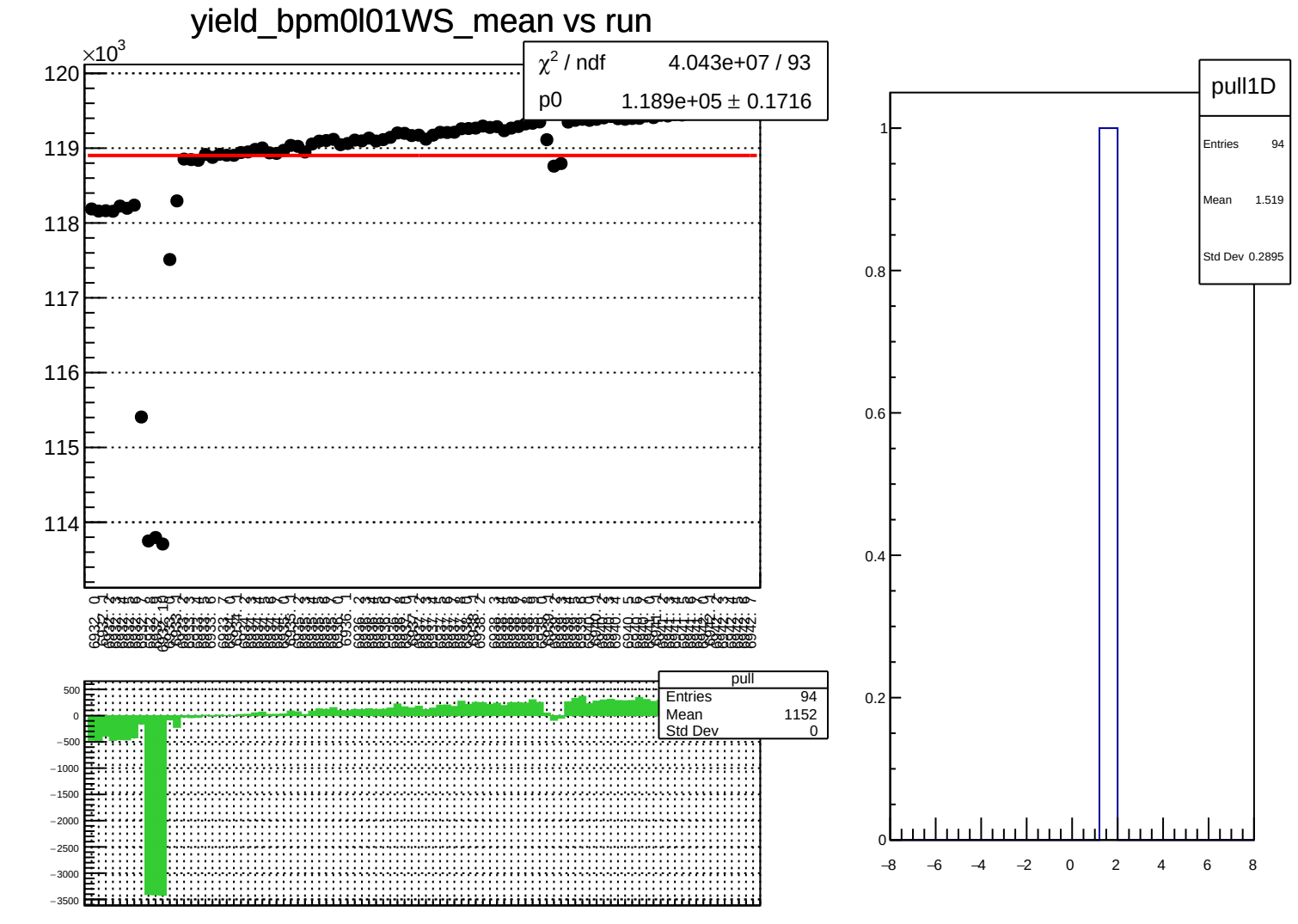

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 2.162e+07 / 93
p0 1.611e+05 ± 0.1975
161
160
159
158
157
156
pull
Entries 94
Mean 651.4
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

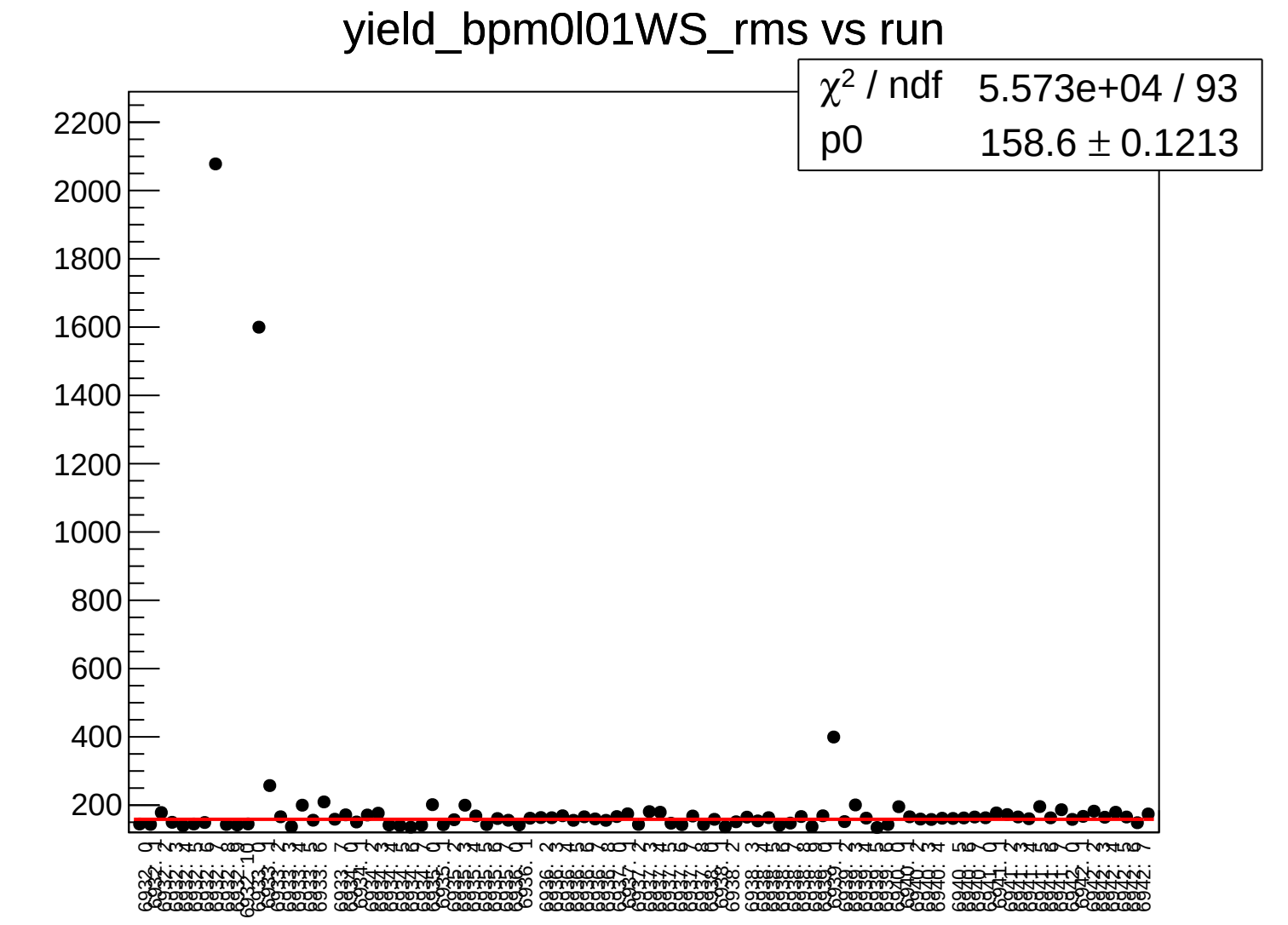

yield_bpm0i01WS_rms vs run
χ² / ndf 4.416e+04 / 93
p0 183.2 ± 0.1397
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

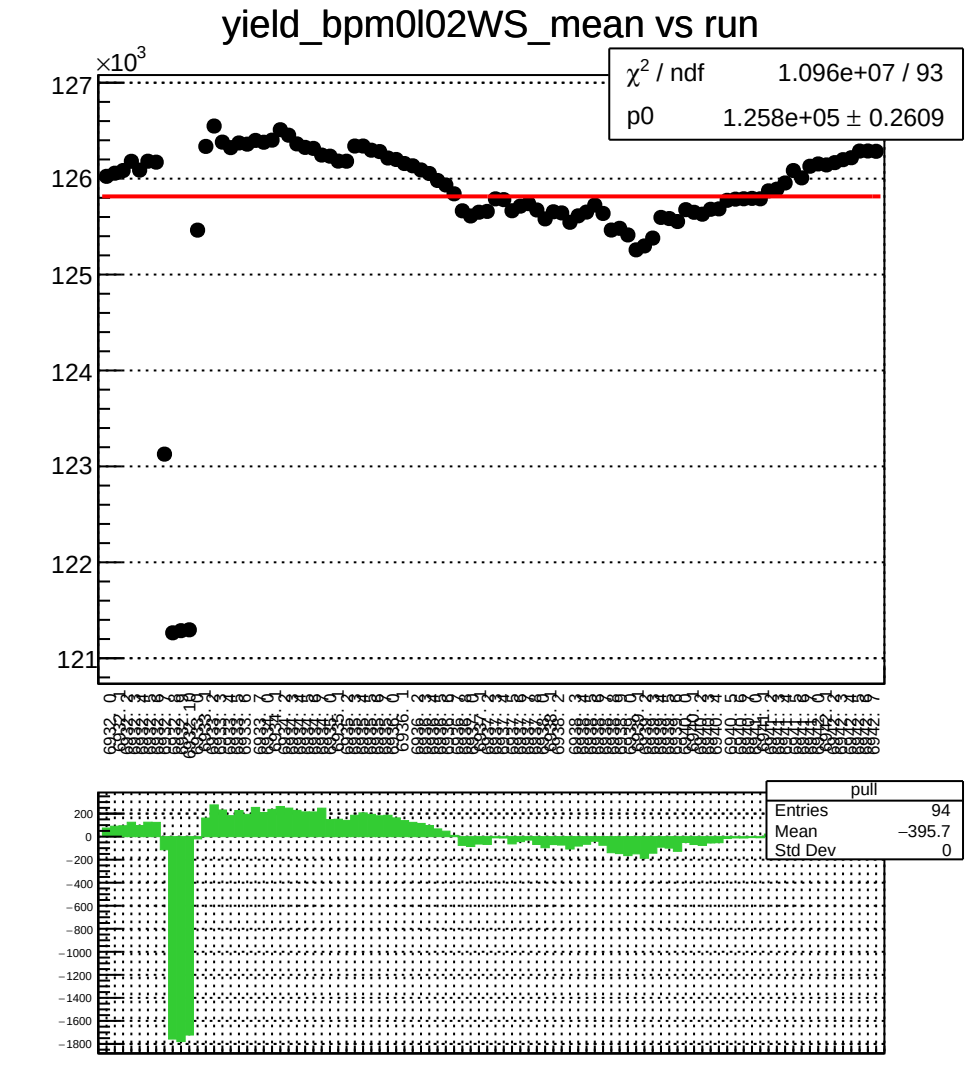

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 2.14e+07 / 93
p0 1.478e+05 ± 0.1759
148
147
146
145
144
pull
Entries 94
Mean 518.2
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

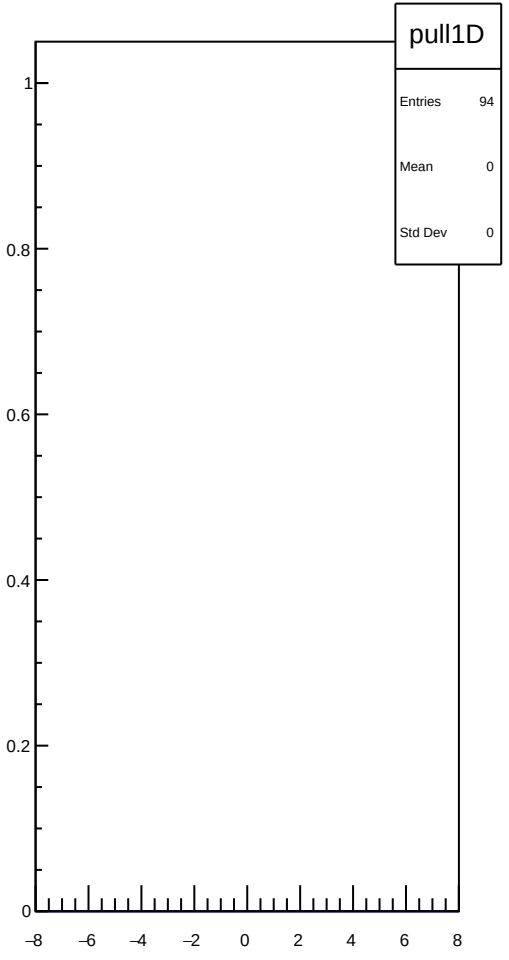

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

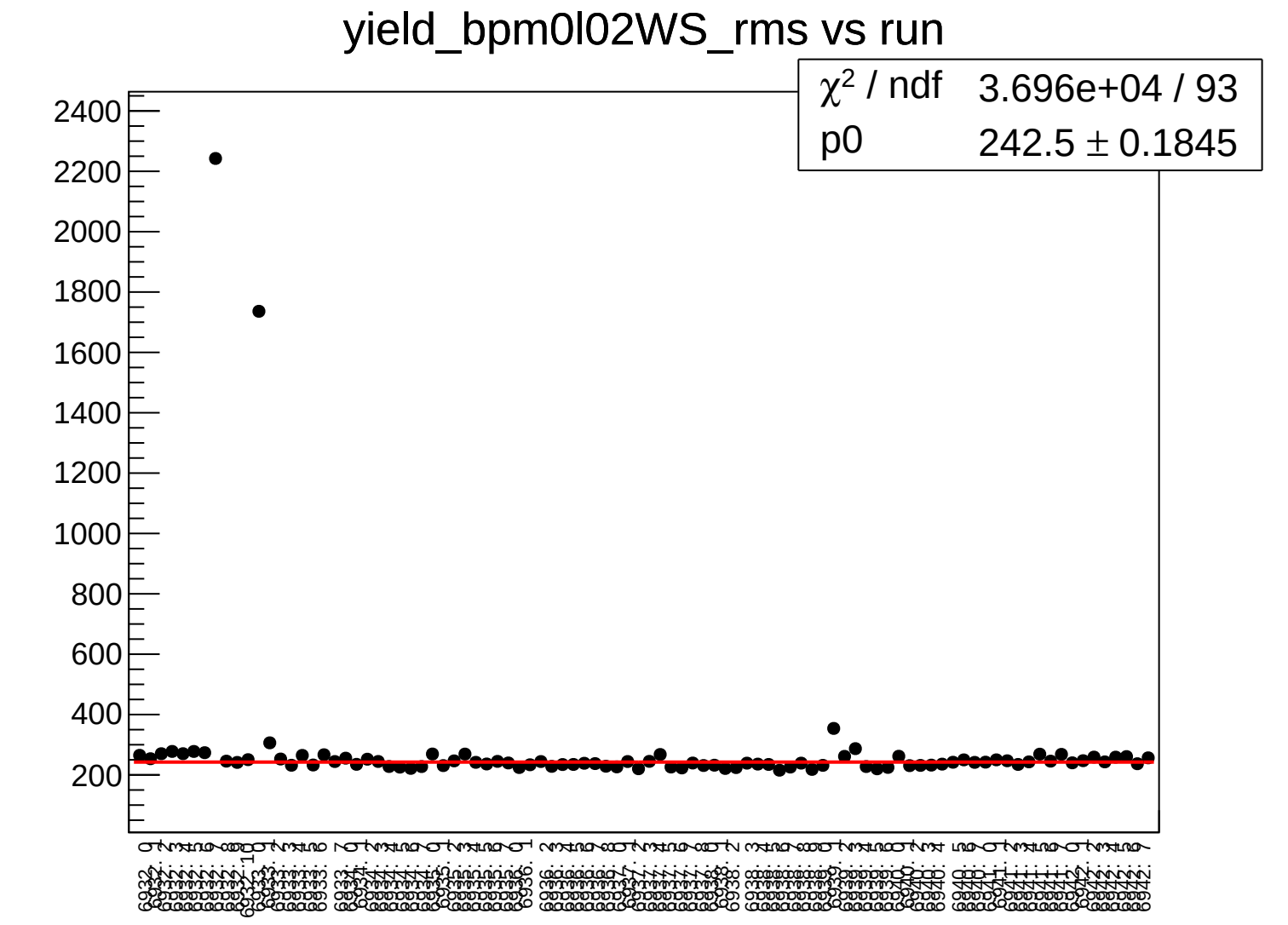

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.545e+04 / 93
p0 163.1 ± 0.1244
2000
1800
1600
1400
1200
1000
800
600
400
200

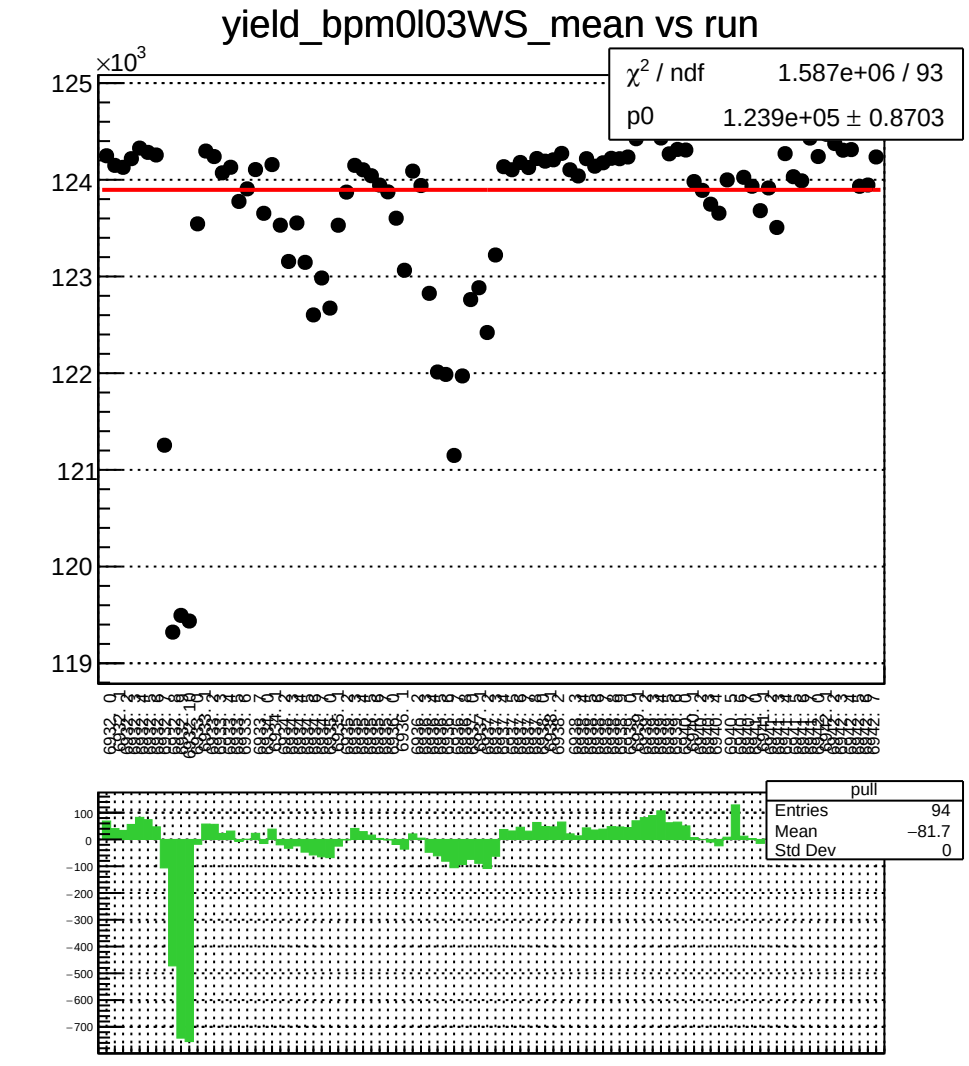

yield_bpm0l01WS_mean vs run
×10^3
120
119
118
117
116
115
114
χ² / ndf 4.043e+07 / 93
p0 1.189e+05 ± 0.1716
pull
Entries 94
Mean 1152
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull1D
Entries 94
Mean 1.519
Std Dev 0.2895
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

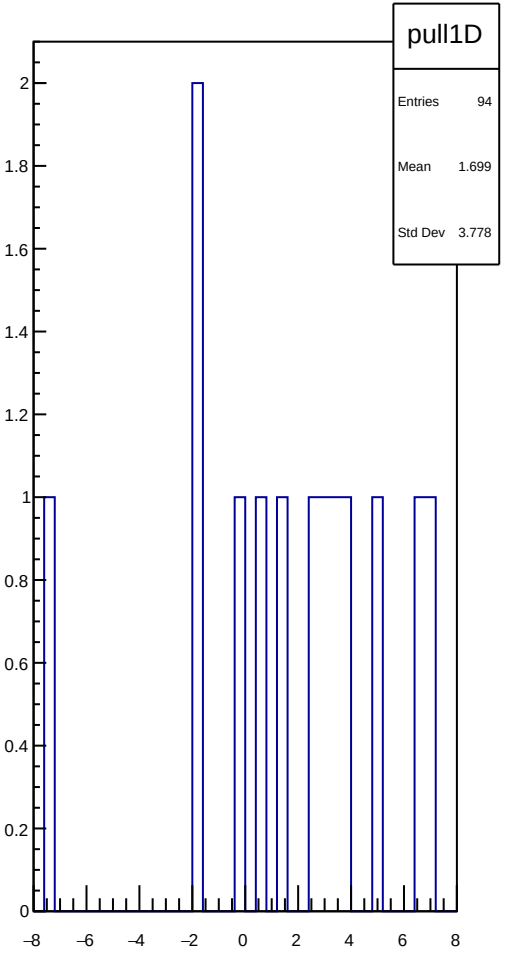

yield_bpm0l01WS_rms vs run
χ² / ndf 5.573e+04 / 93
p0 158.6 ± 0.1213
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

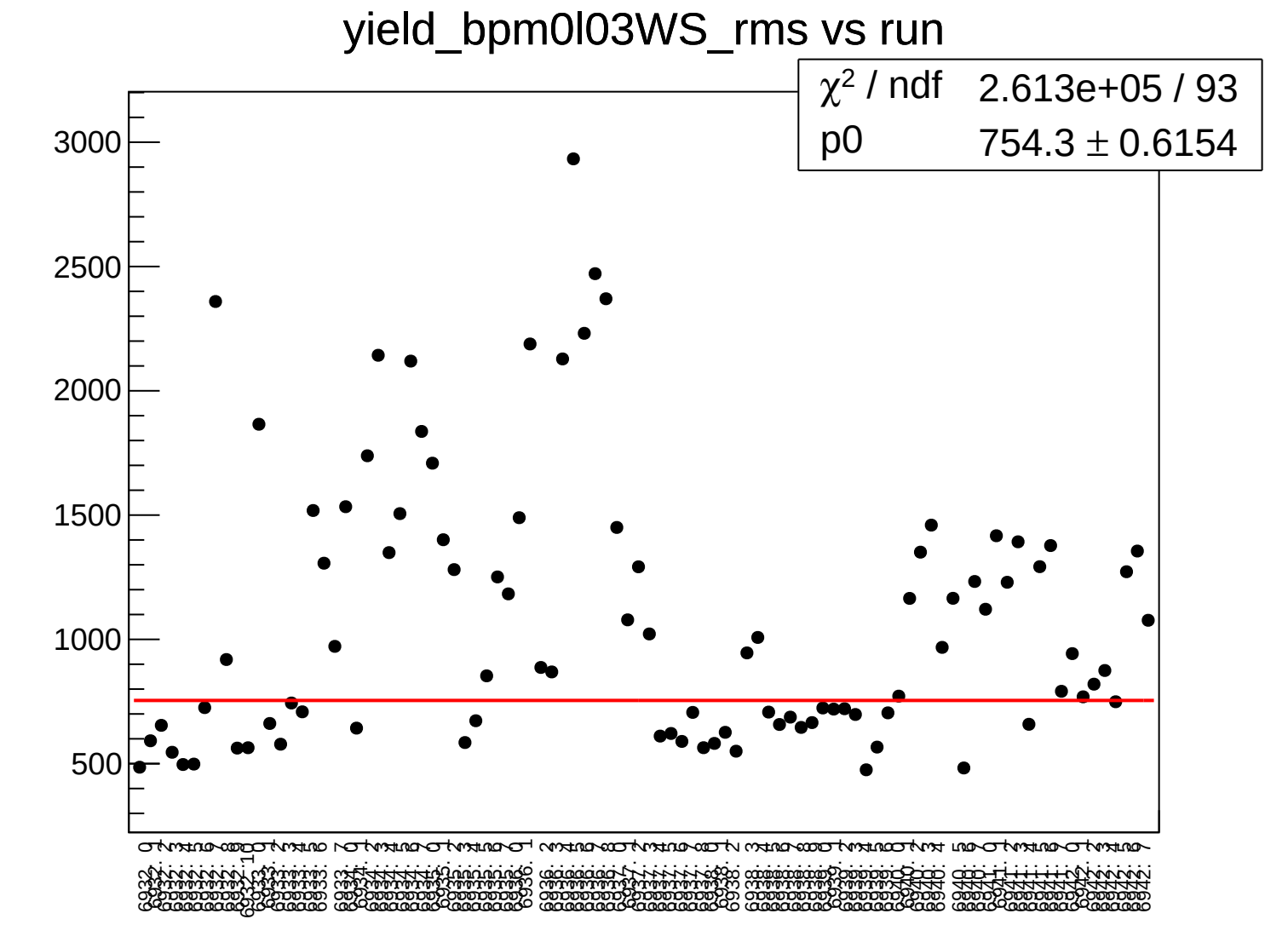

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.096e+07 / 93
p0 1.258e+05 ± 0.2609
127
126
125
124
123
122
121
pull
Entries 94
Mean −395.7
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

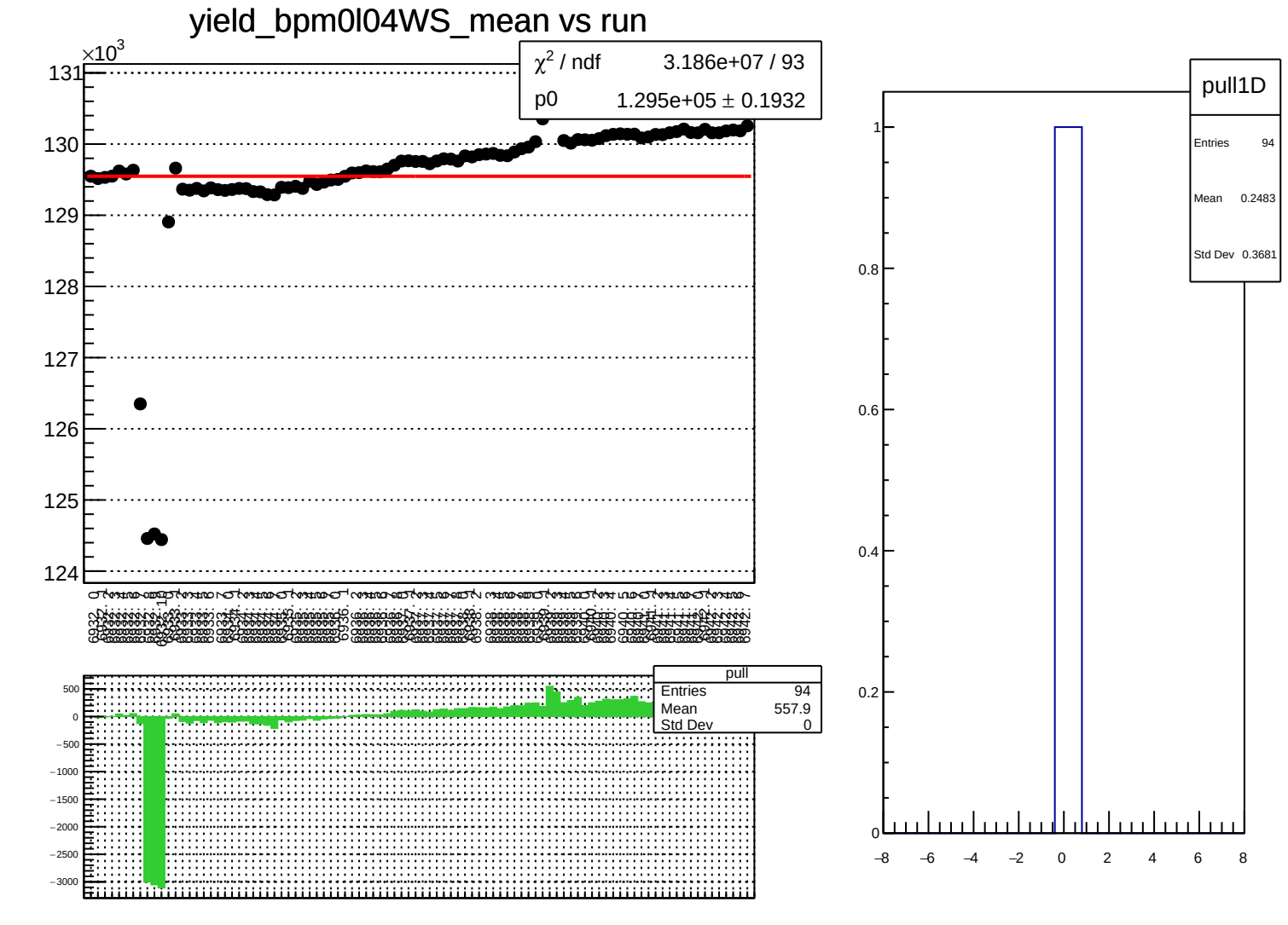

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

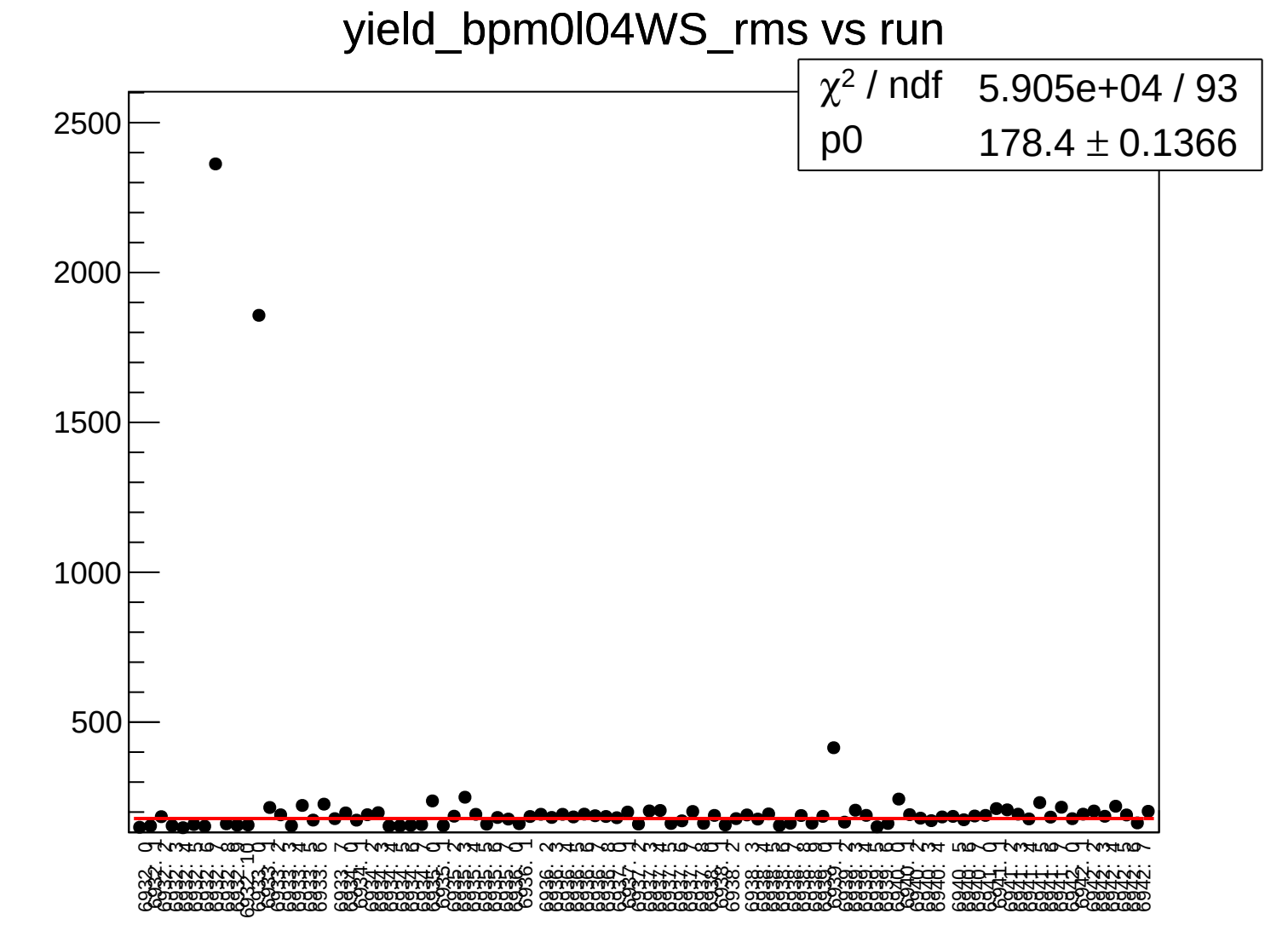

yield_bpm0l02WS_rms vs run
χ² / ndf 3.696e+04 / 93
p0 242.5 ± 0.1845
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

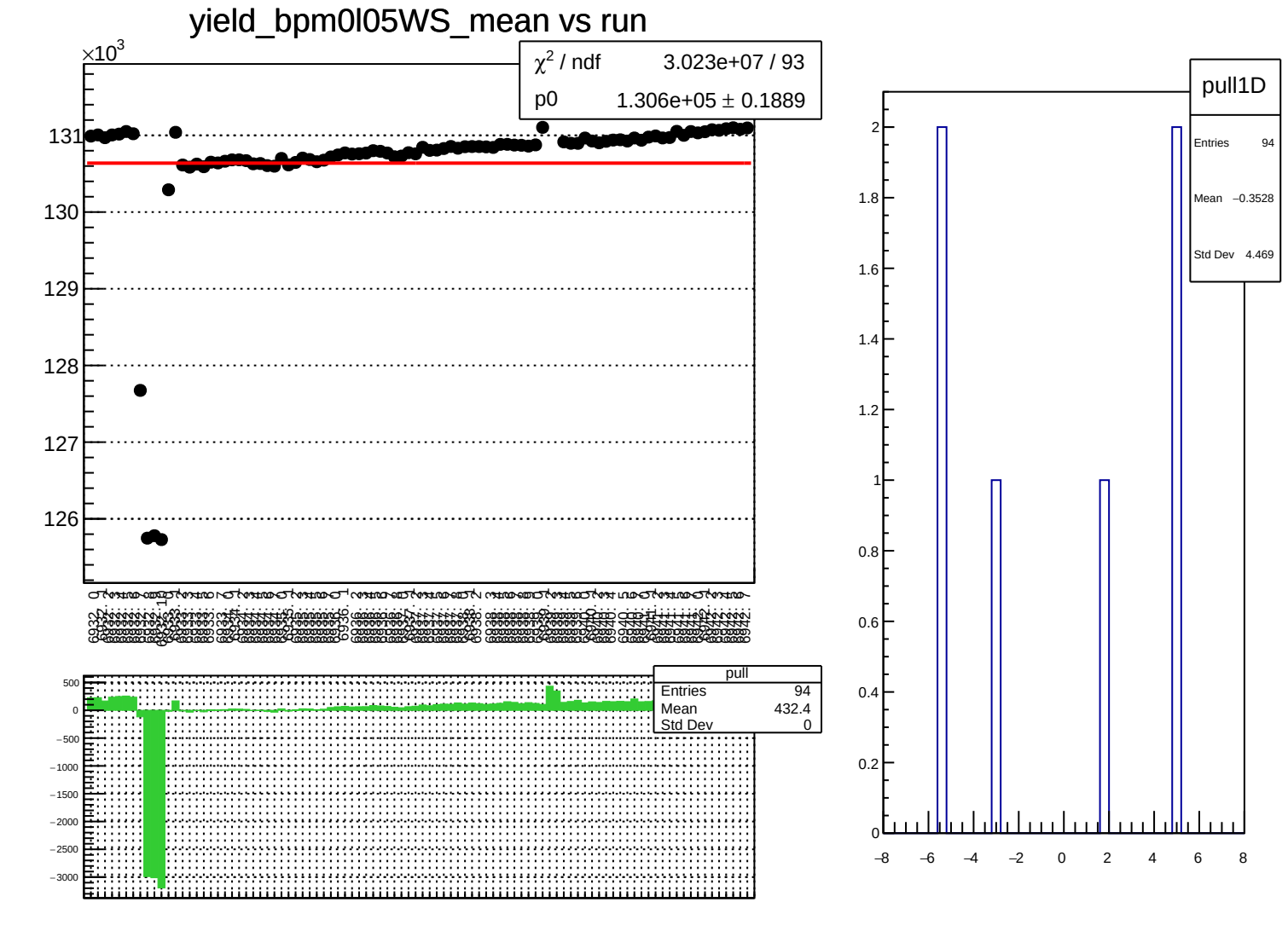

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 1.587e+06 / 93
p0 1.239e+05 ± 0.8703
125
124
123
122
121
120
119
pull
Entries 94
Mean −81.7
Std Dev 0
100
0
−100
−200
−300
−400
−500
−600
−700

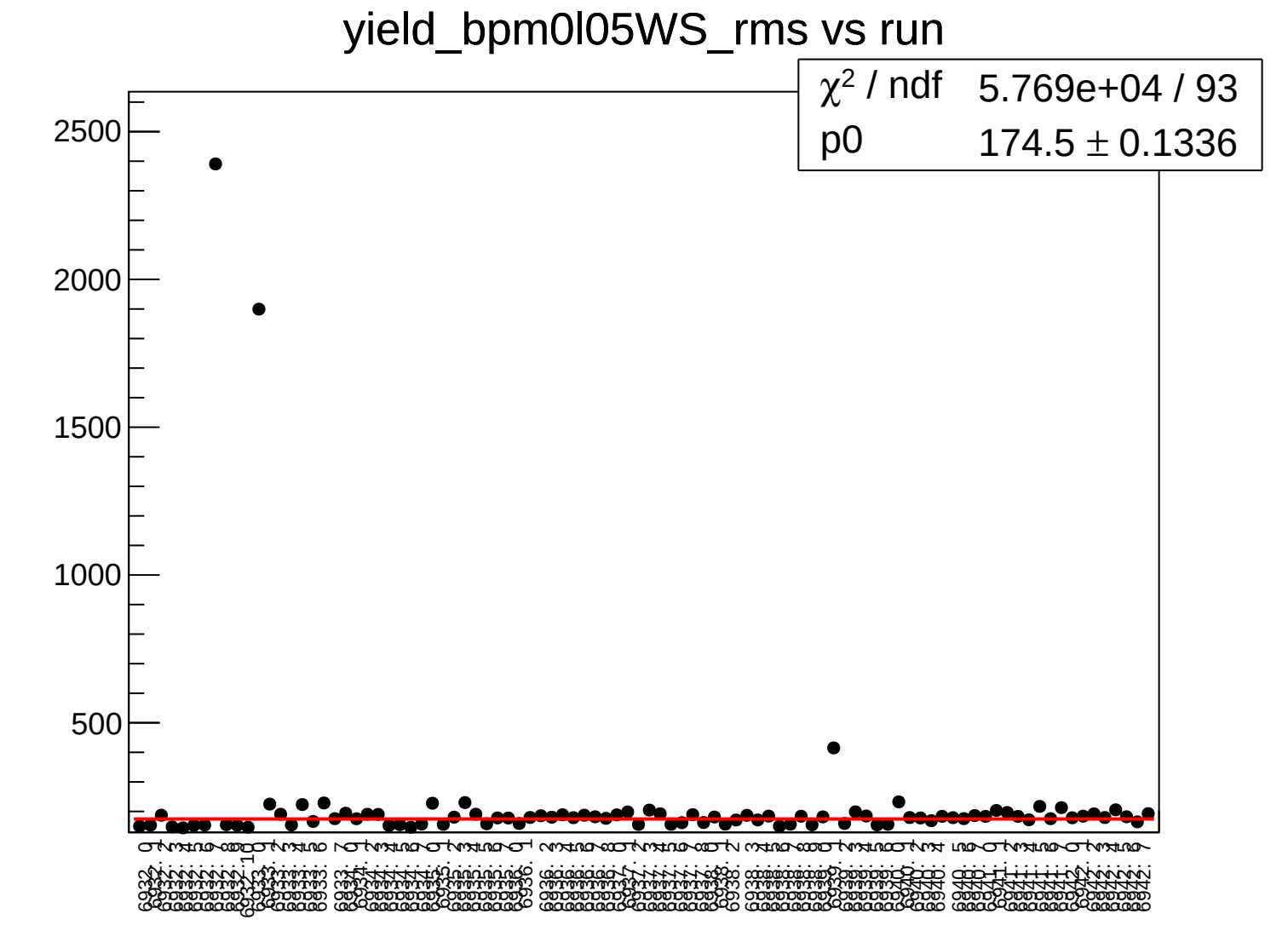

pull1D
Entries 94
Mean 1.699
Std Dev 3.778
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

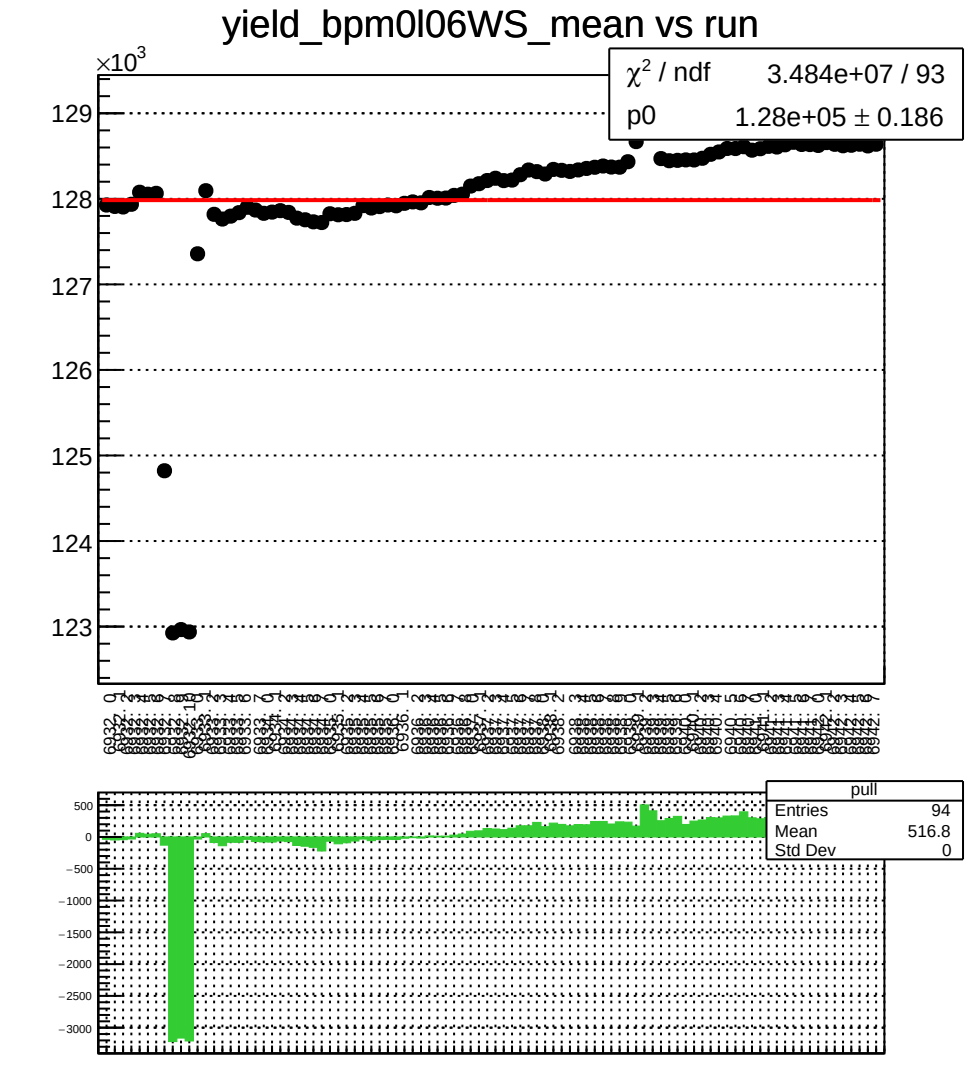

yield_bpm0l03WS_rms vs run
χ² / ndf 2.613e+05 / 93
p0 754.3 ± 0.6154
3000
2500
2000
1500
1000
500

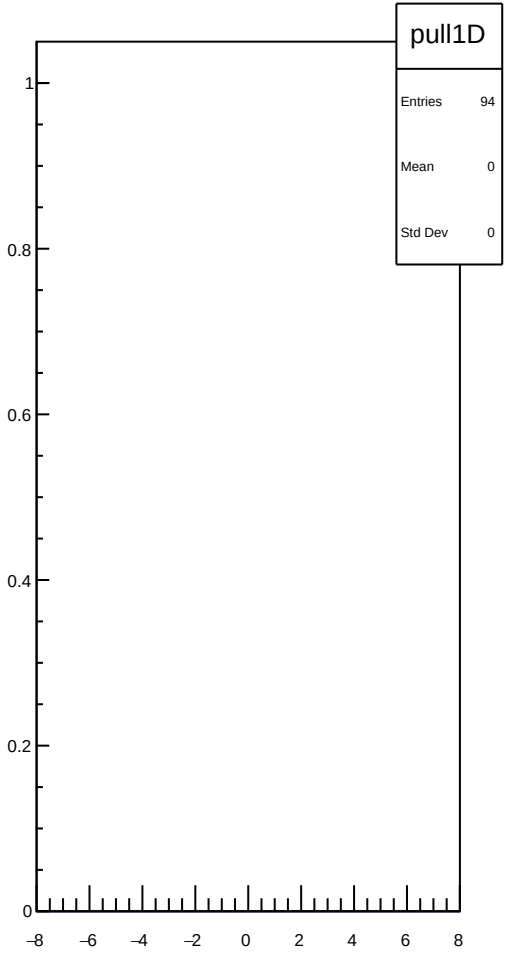

yield_bpm0l04WS_mean vs run
×10^3
131
130
129
128
127
126
125
124
χ² / ndf 3.186e+07 / 93
p0 1.295e+05 ± 0.1932
pull
Entries 94
Mean 557.9
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 94
Mean 0.2483
Std Dev 0.3681
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

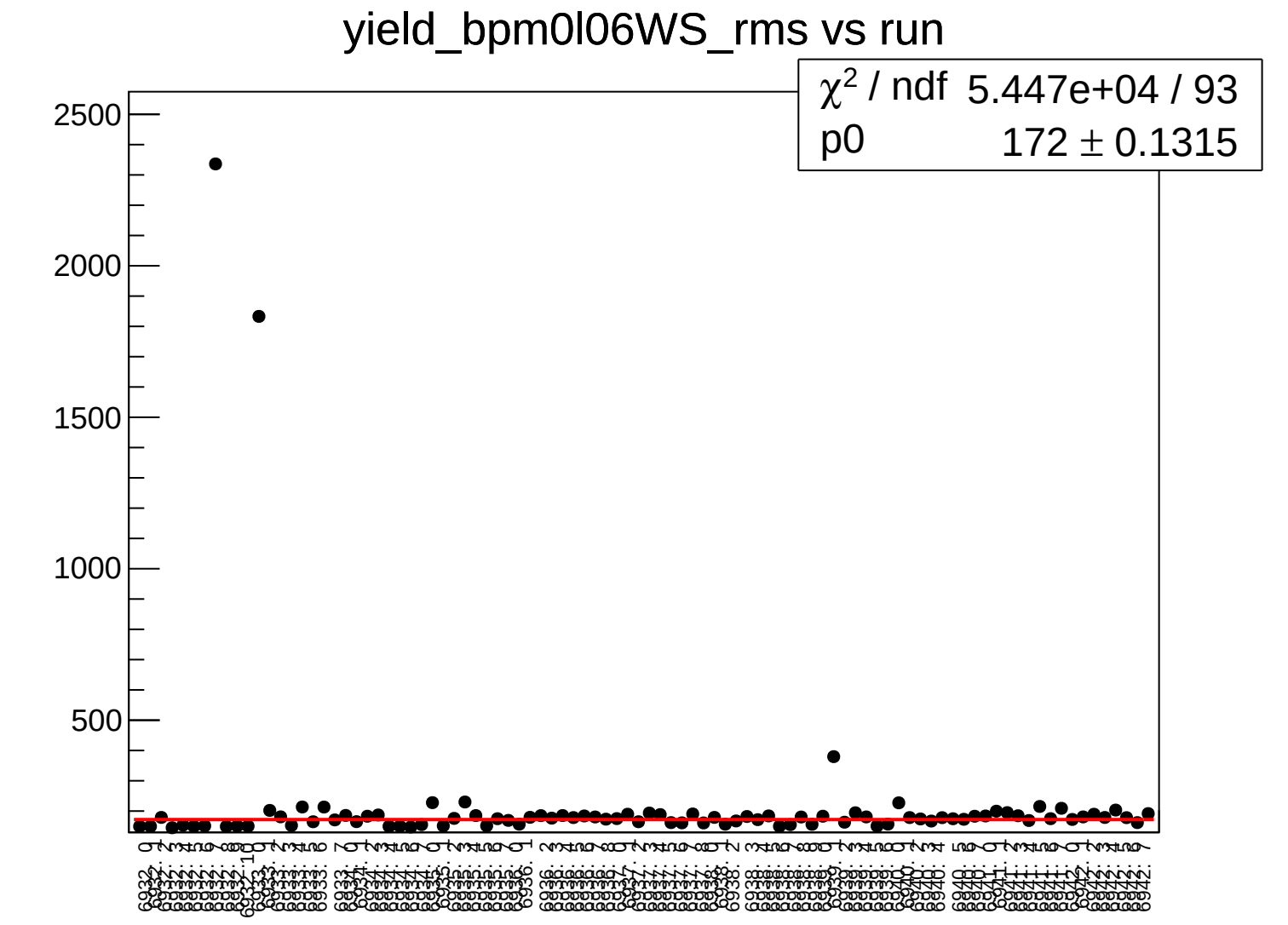

yield_bpm0l04WS_rms vs run
χ^2 / ndf 5.905e+04 / 93
p0 178.4 ± 0.1366
2500
2000
1500
1000
500

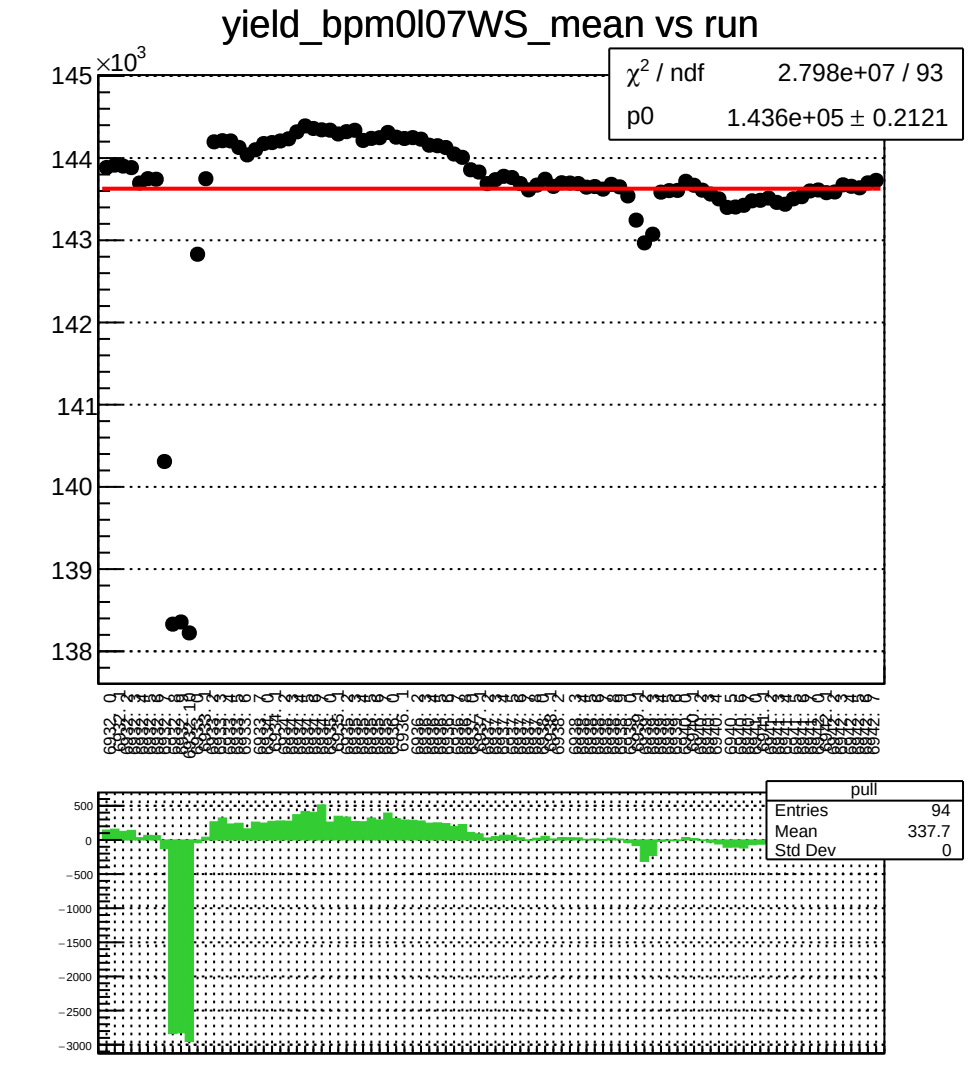

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.023e+07 / 93
p0 1.306e+05 ± 0.1889
131
130
129
128
127
126
pull
Entries 94
Mean 432.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 94
Mean −0.3528
Std Dev 4.469
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

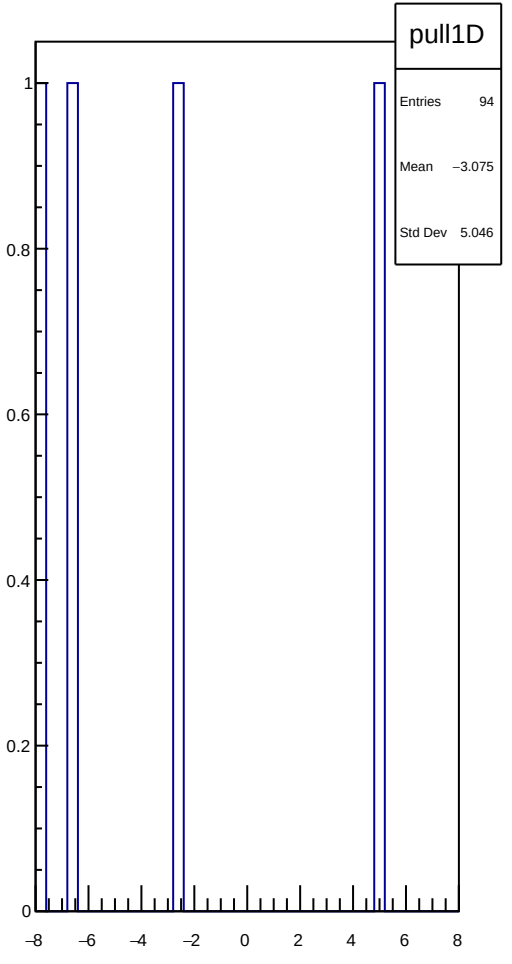

yield_bpm0l05WS_rms vs run
χ² / ndf 5.769e+04 / 93
p0 174.5 ± 0.1336
2500
2000
1500
1000
500

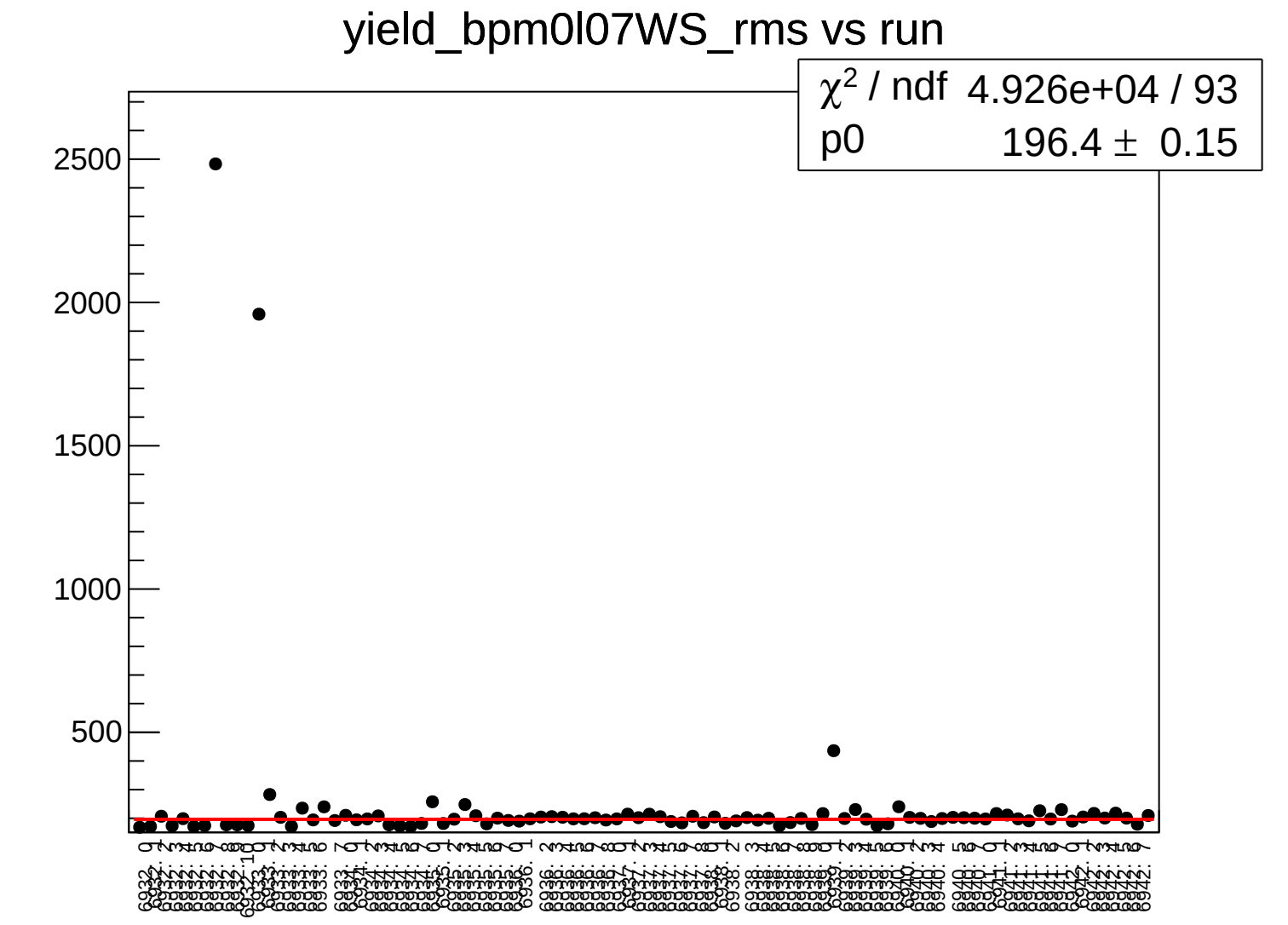

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.484e+07 / 93
p0 1.28e+05 ± 0.186
129
128
127
126
125
124
123
pull
Entries 94
Mean 516.8
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

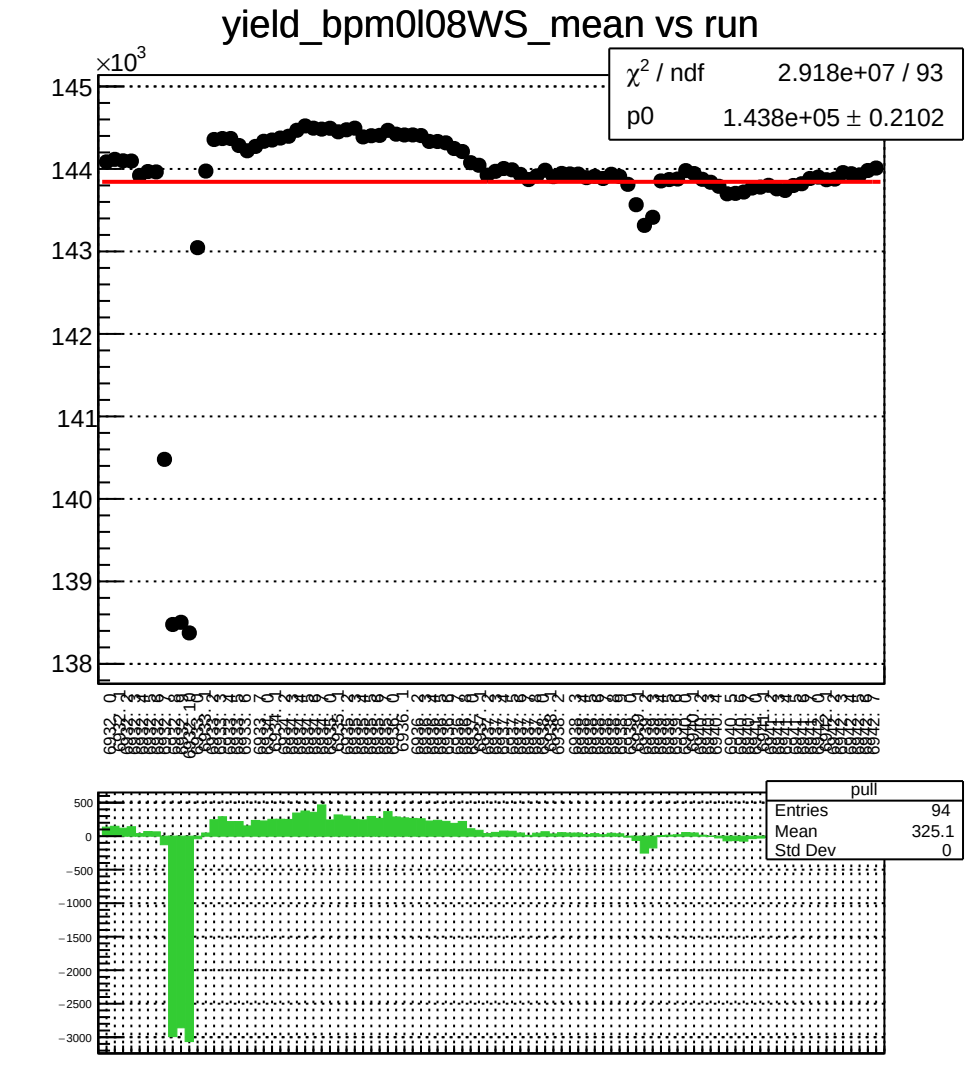

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

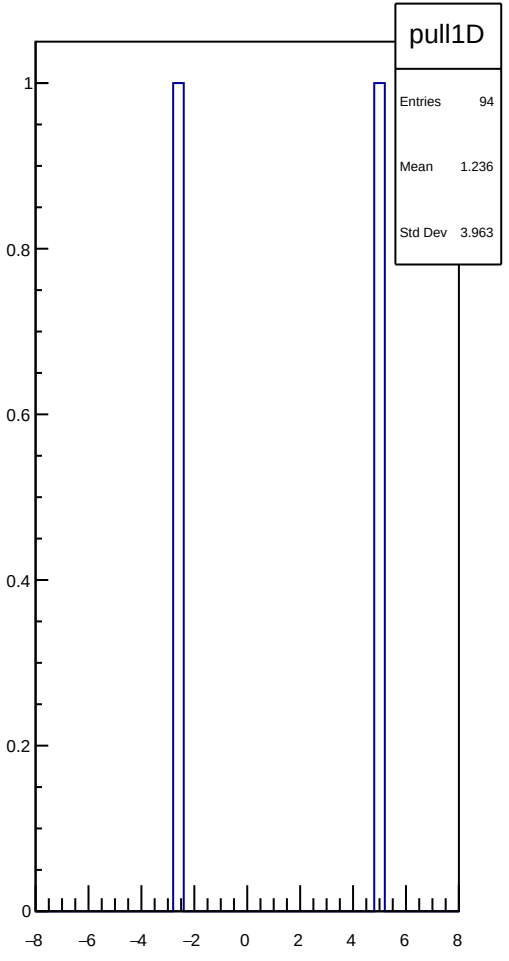

yield_bpm0l06WS_rms vs run
χ² / ndf 5.447e+04 / 93
p0 172 ± 0.1315
2500
2000
1500
1000
500

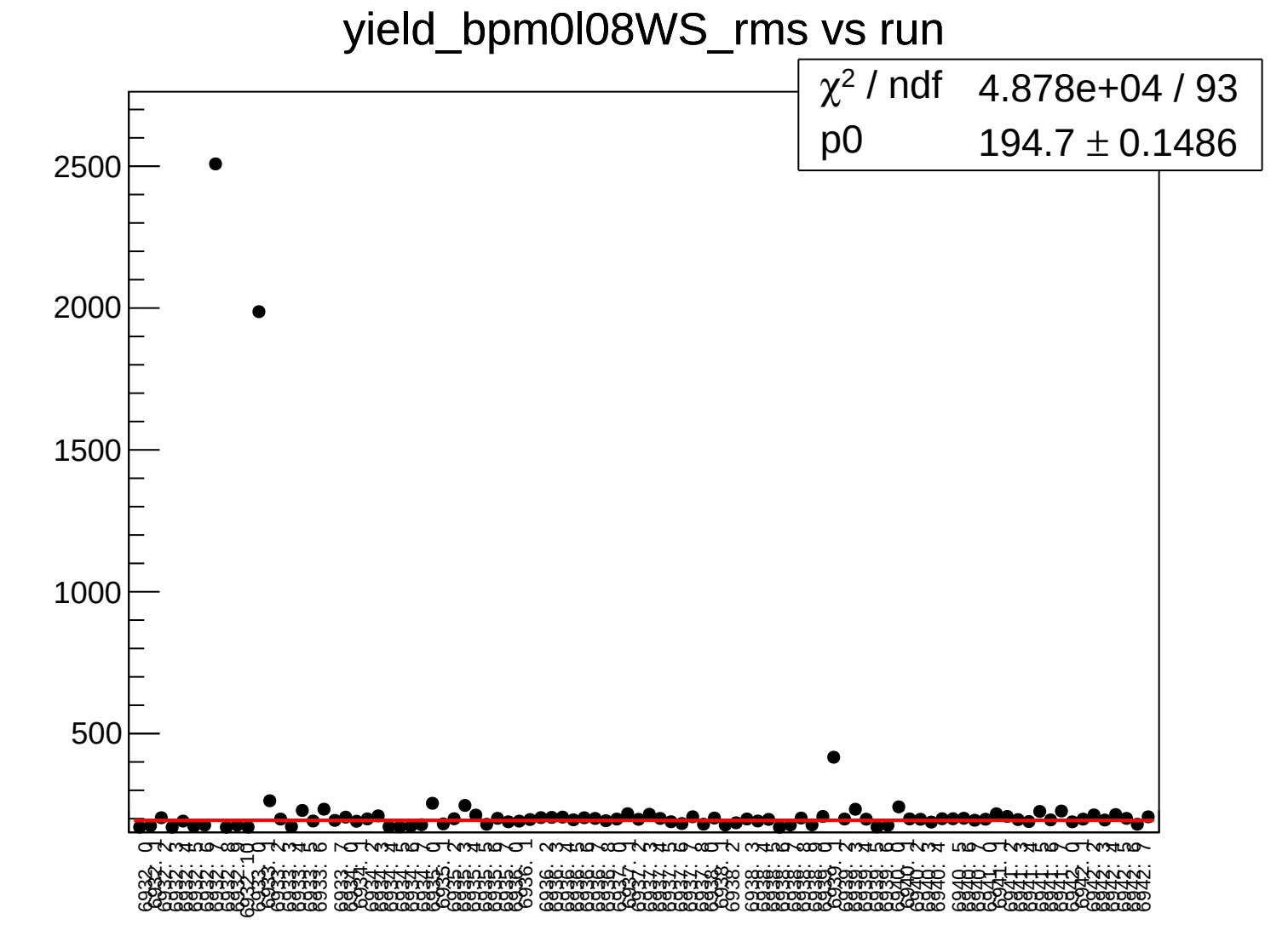

yield_bpm0l07WS_mean vs run
×10^3
145
144
143
142
141
140
139
138
χ² / ndf 2.798e+07 / 93
p0 1.436e+05 ± 0.2121
pull
Entries 94
Mean 337.7
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

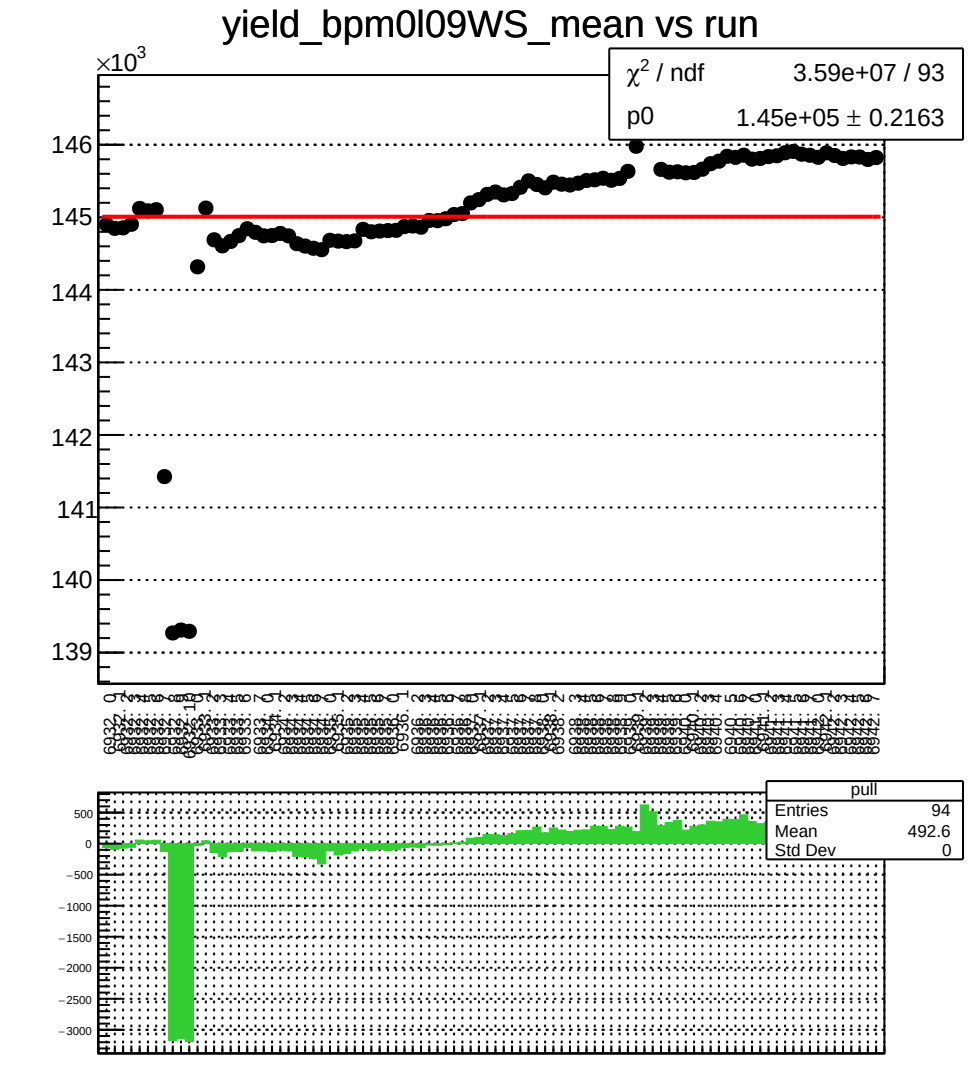

pull1D
Entries 94
Mean −3.075
Std Dev 5.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

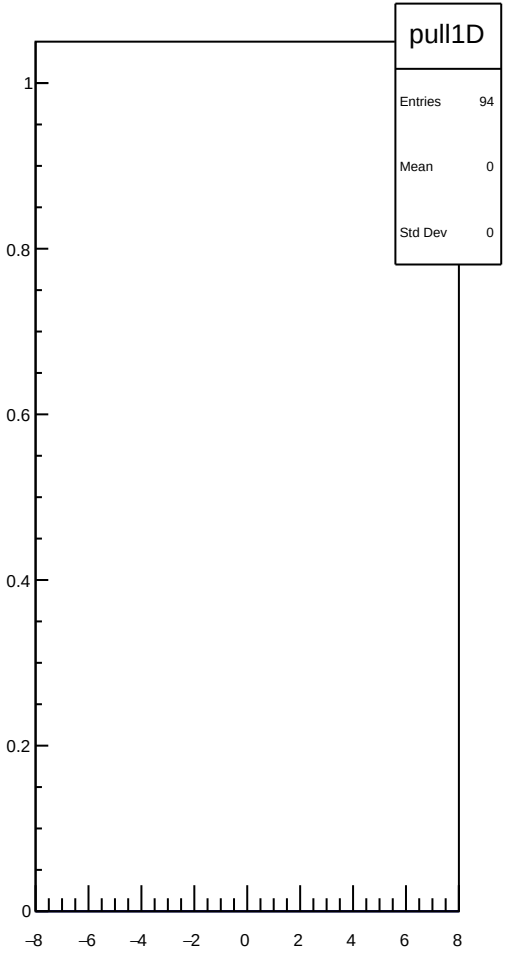

yield_bpm0l07WS_rms vs run
χ² / ndf 4.926e+04 / 93
p0 196.4 ± 0.15
2500
2000
1500
1000
500

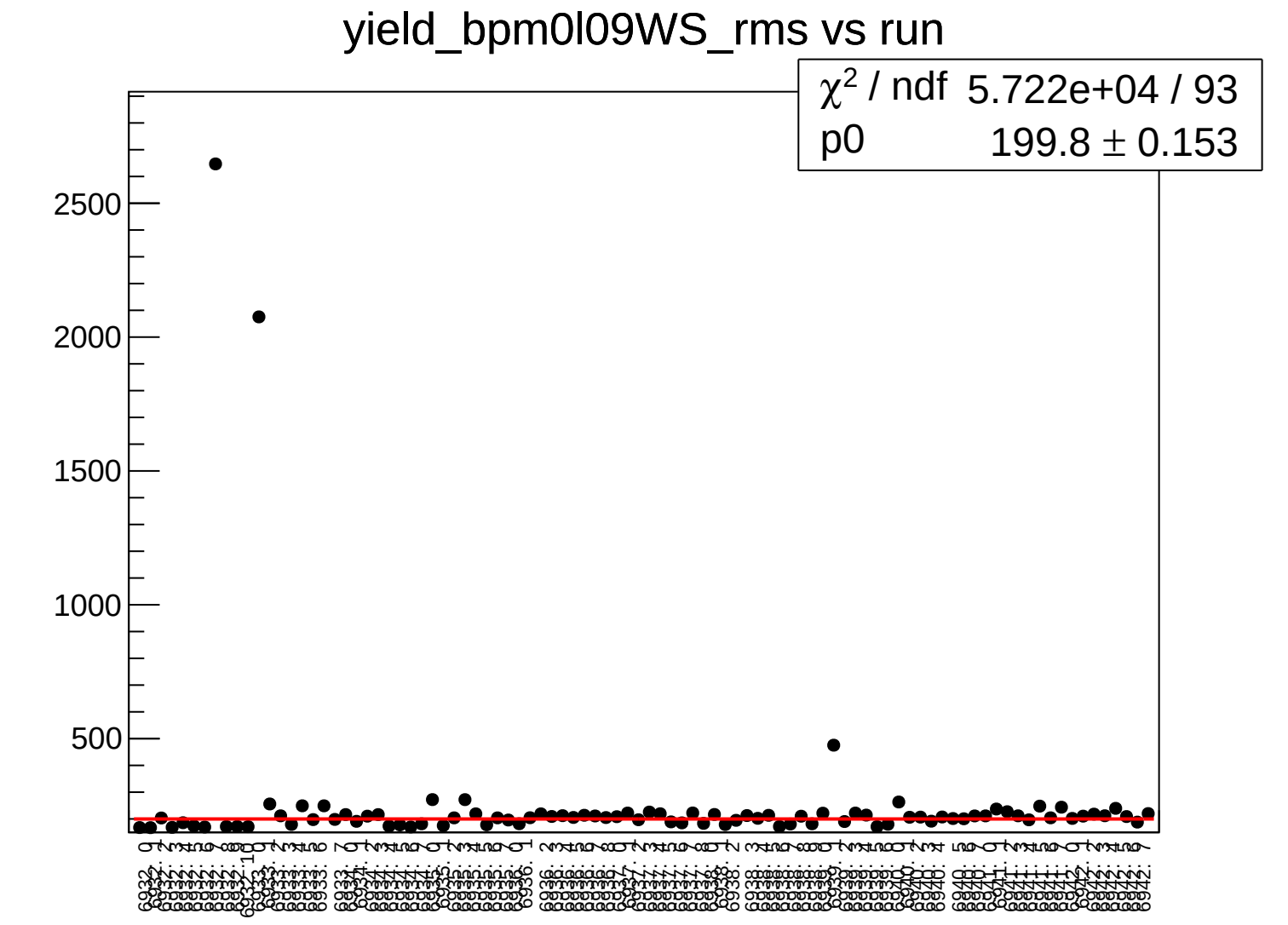

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.918e+07 / 93
p0 1.438e+05 ± 0.2102
145
144
143
142
141
140
139
138
pull
Entries 94
Mean 325.1
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

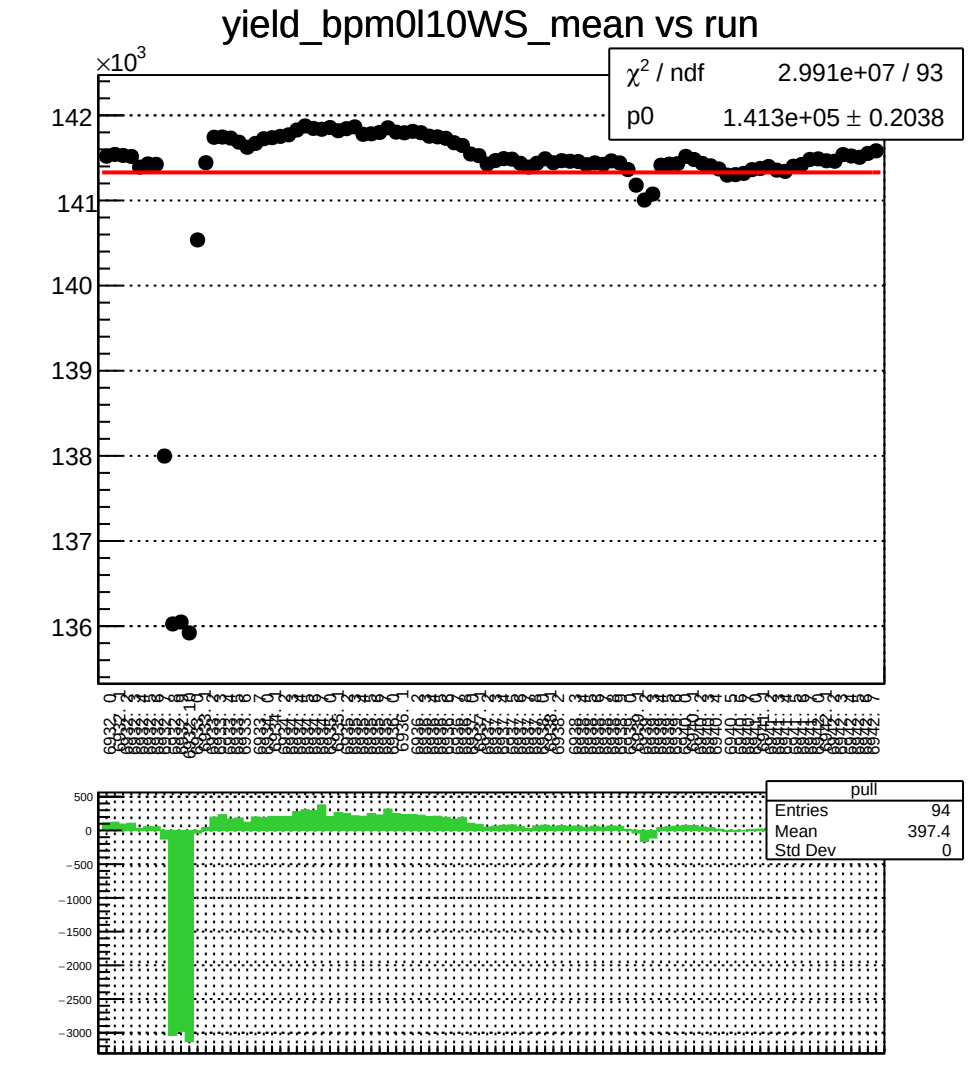

pull1D
Entries 94
Mean 1.236
Std Dev 3.963
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

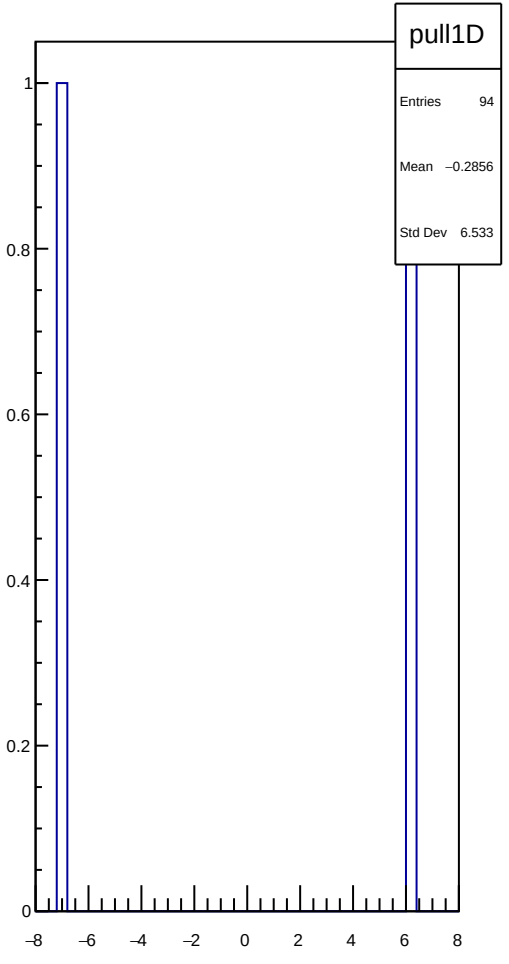

yield_bpm0l08WS_rms vs run
χ² / ndf 4.878e+04 / 93
p0 194.7 ± 0.1486
2500
2000
1500
1000
500

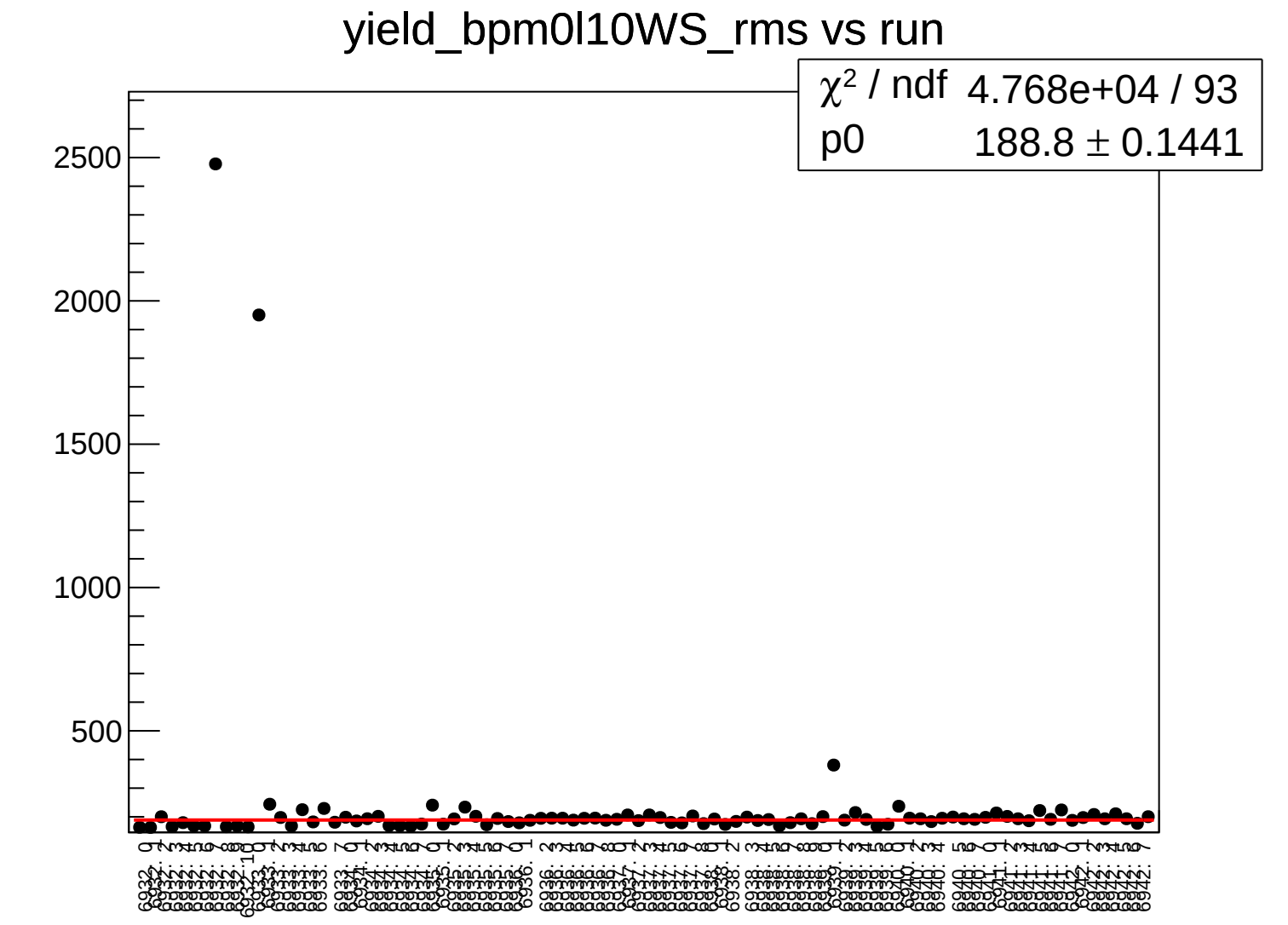

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 3.59e+07 / 93
p0 1.45e+05 ± 0.2163
146
145
144
143
142
141
140
139
pull
Entries 94
Mean 492.6
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

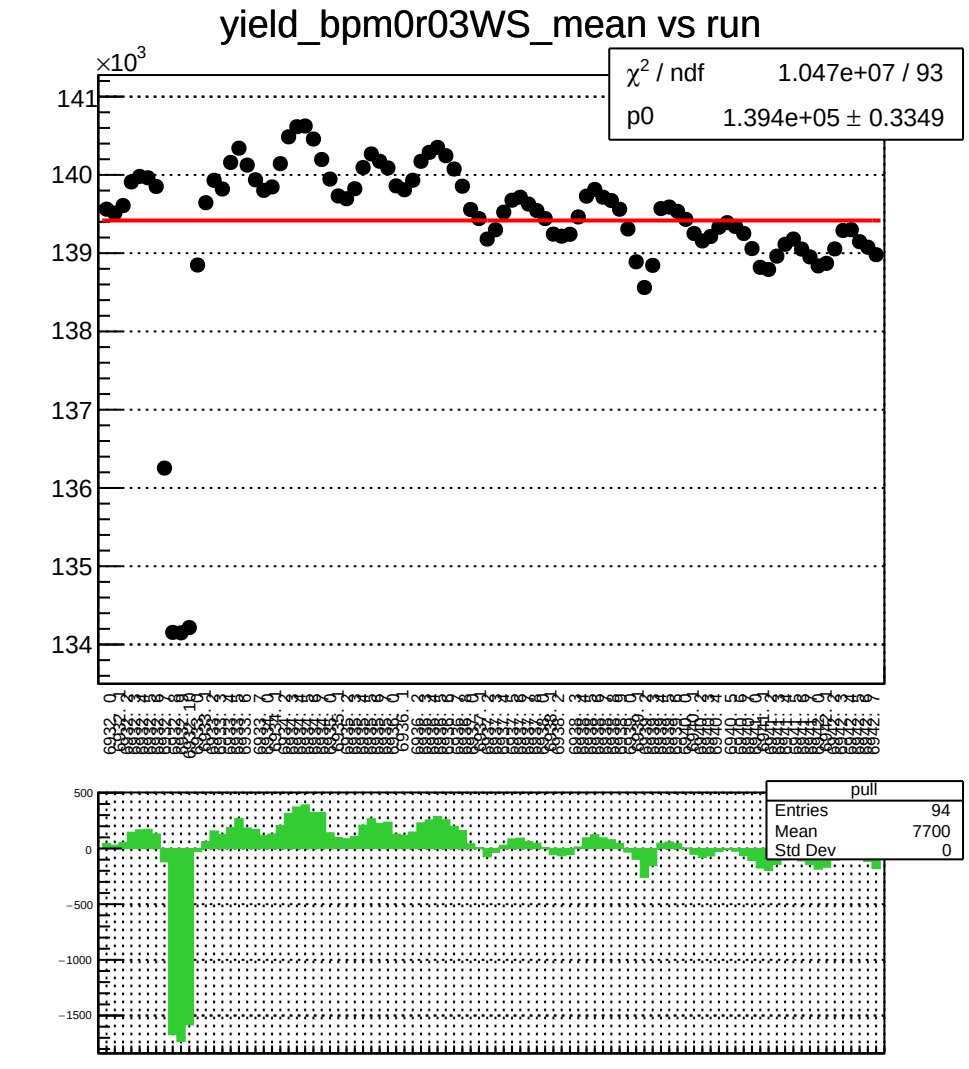

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

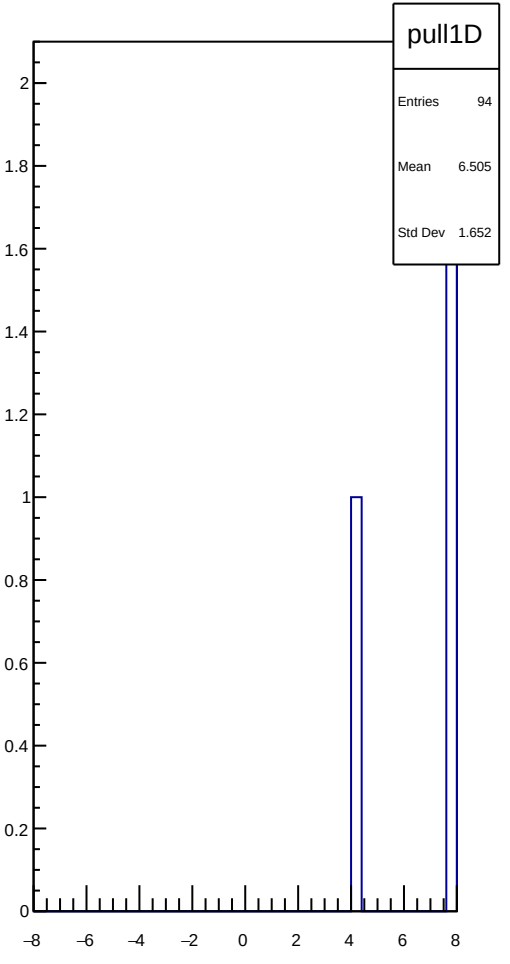

yield_bpm0l09WS_rms vs run
χ² / ndf 5.722e+04 / 93
p0 199.8 ± 0.153
2500
2000
1500
1000
500

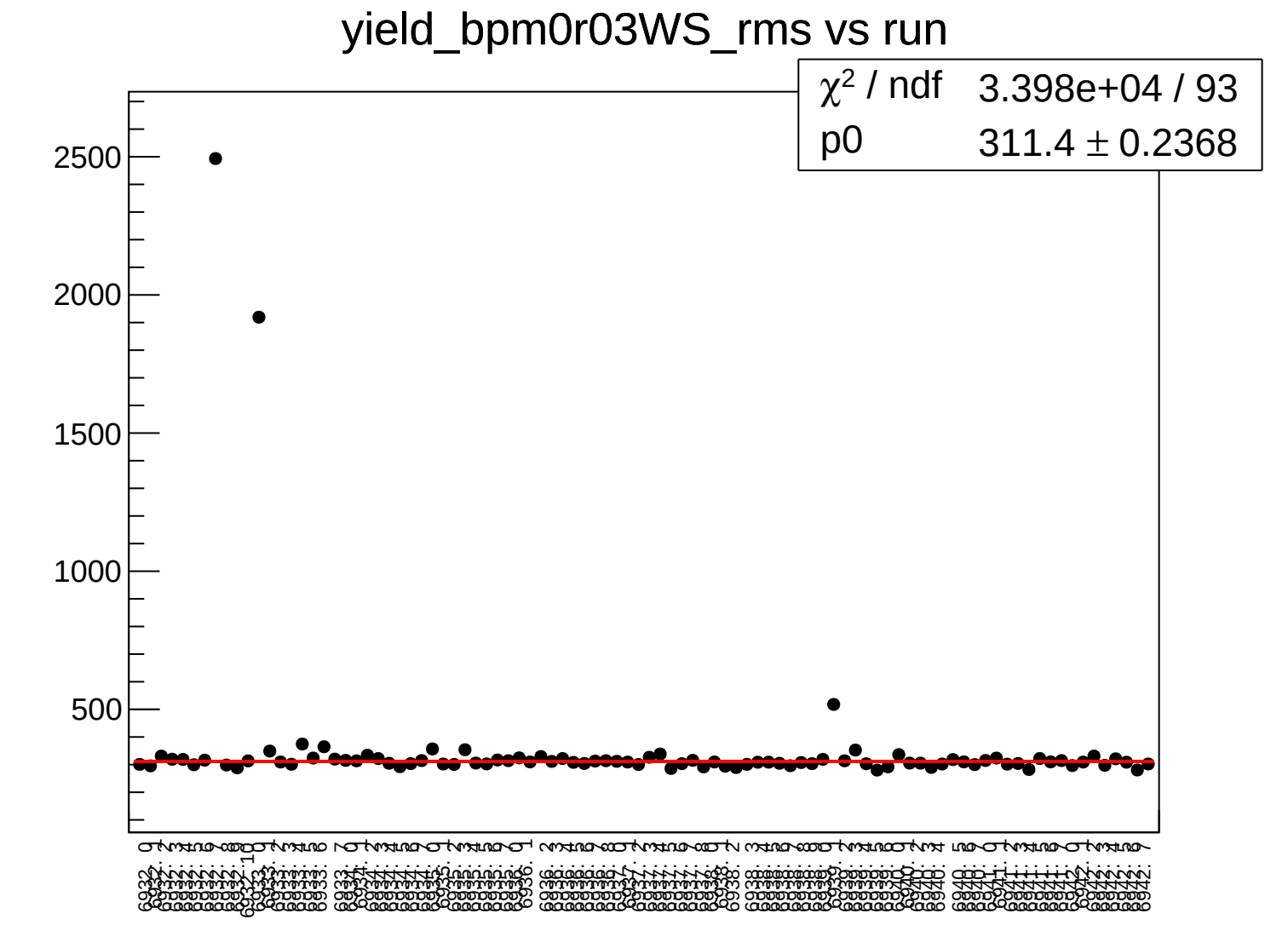

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.991e+07 / 93
p0 1.413e+05 ± 0.2038
142
141
140
139
138
137
136
pull
Entries 94
Mean 397.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

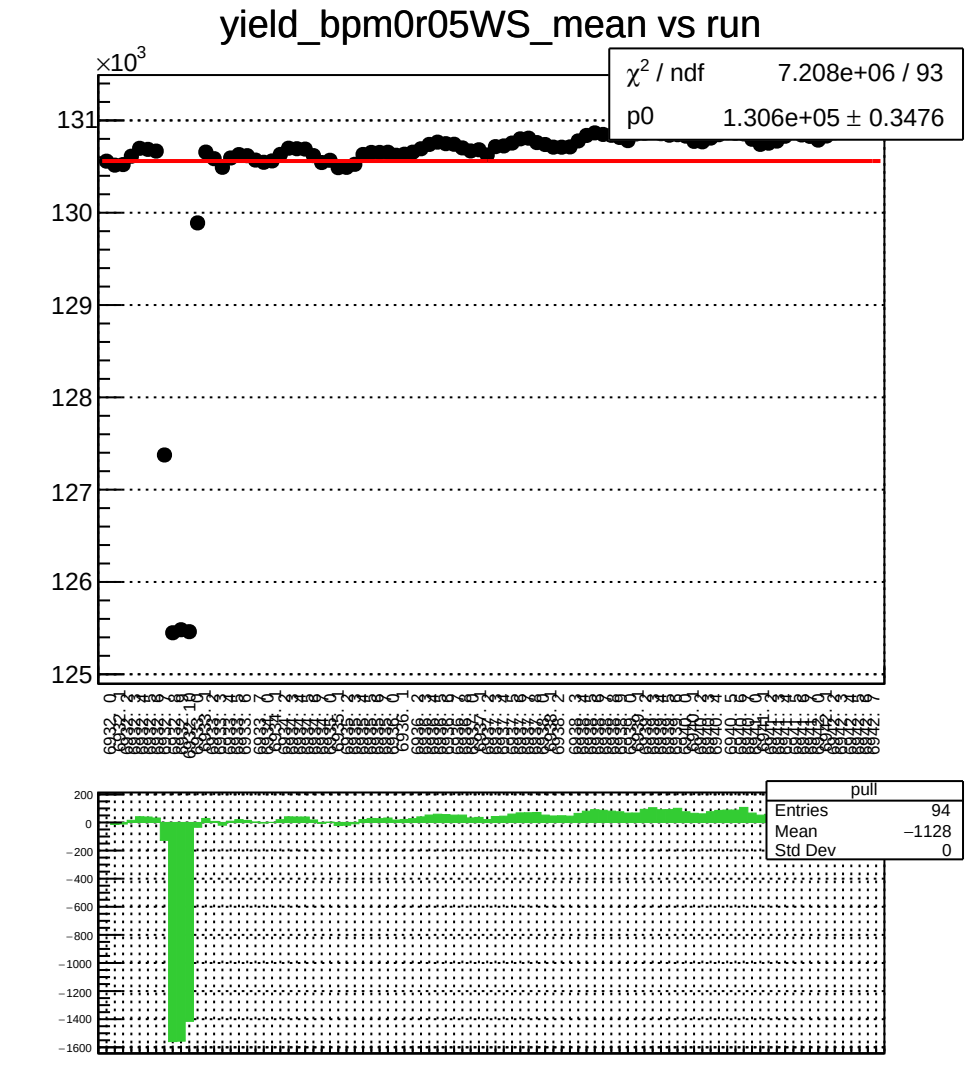

pull1D
Entries 94
Mean −0.2856
Std Dev 6.533
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

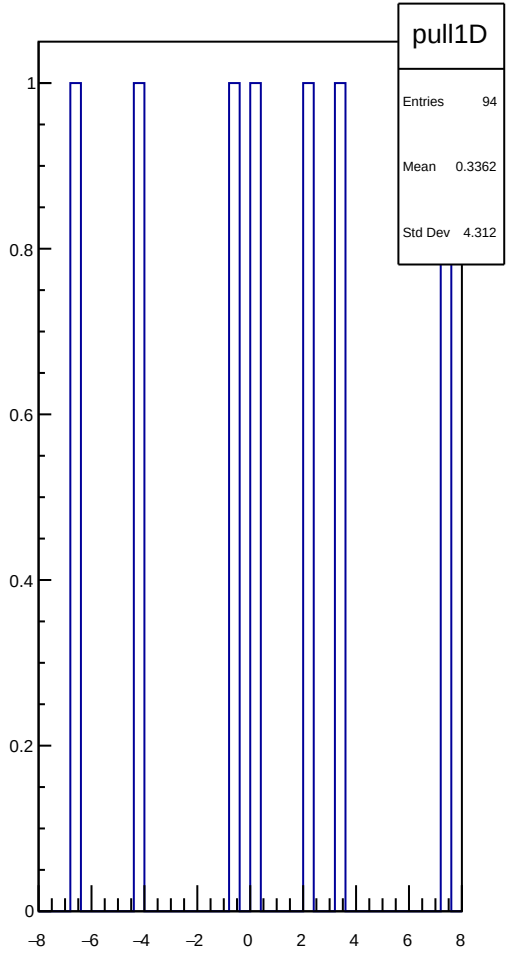

yield_bpm0l10WS_rms vs run
χ² / ndf 4.768e+04 / 93
p0 188.8 ± 0.1441
2500
2000
1500
1000
500

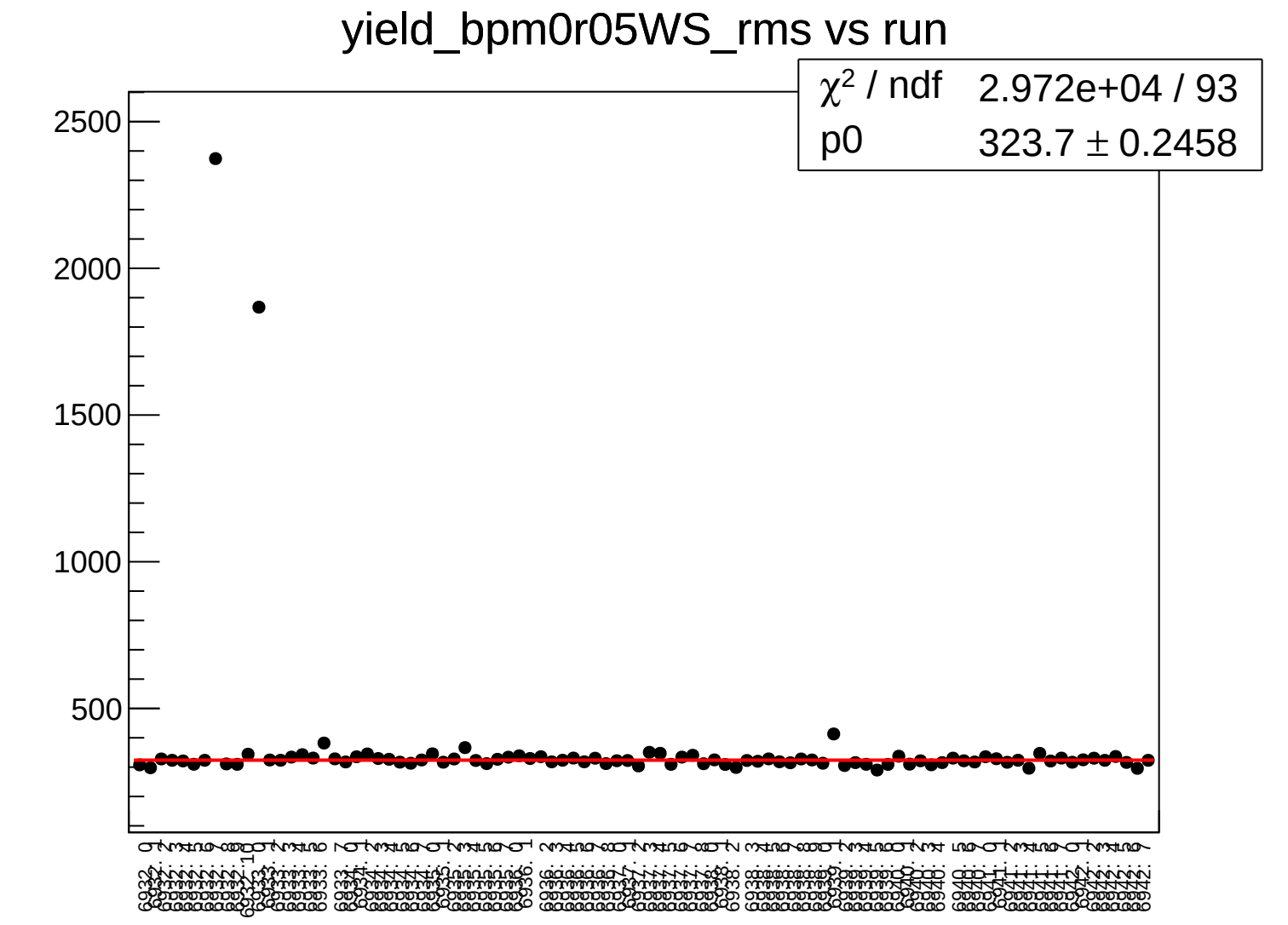

yield_bpm0r03WS_mean vs run
×10^3
141
140
139
138
137
136
135
134
χ² / ndf 1.047e+07 / 93
p0 1.394e+05 ± 0.3349
500
0
−500
−1000
−1500
pull
Entries 94
Mean 7700
Std Dev 0

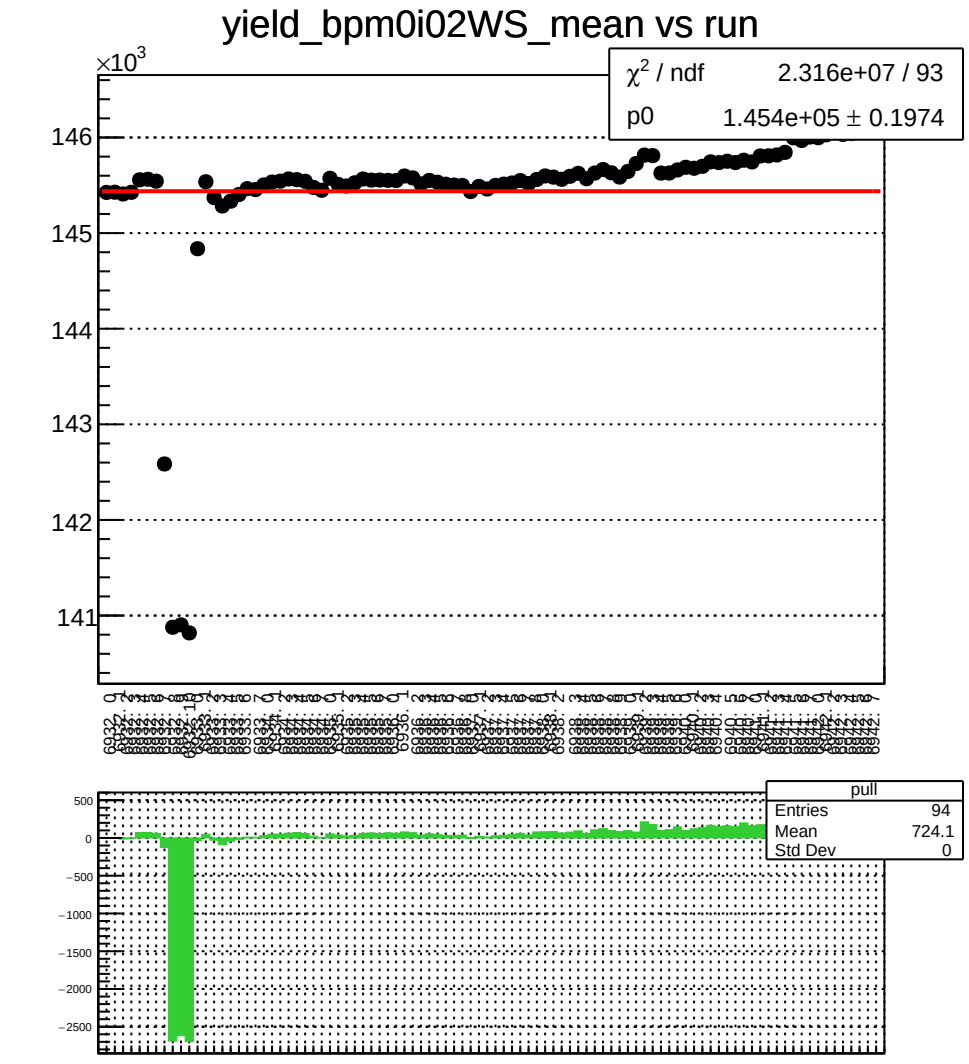

pull1D
Entries 94
Mean 6.505
Std Dev 1.652
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

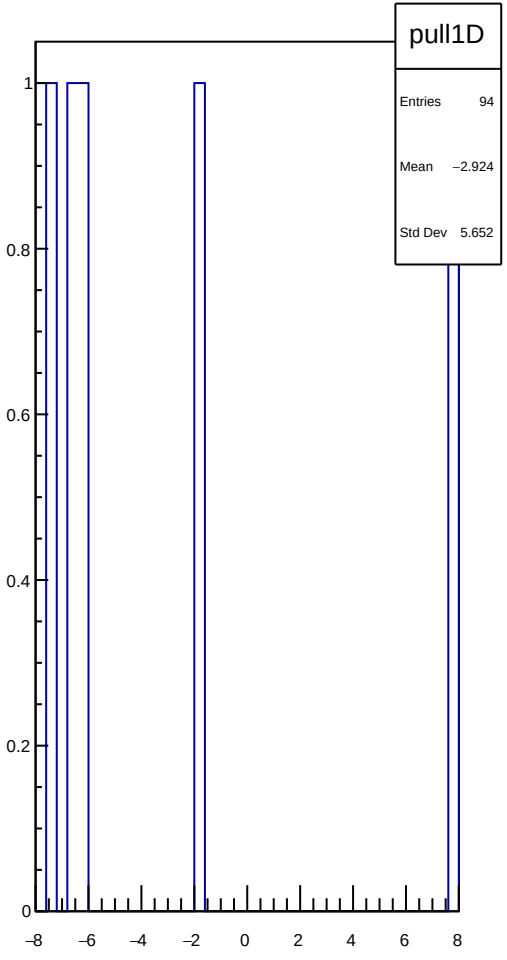

yield_bpm0r03WS_rms vs run
χ² / ndf 3.398e+04 / 93
p0 311.4 ± 0.2368
2500
2000
1500
1000
500

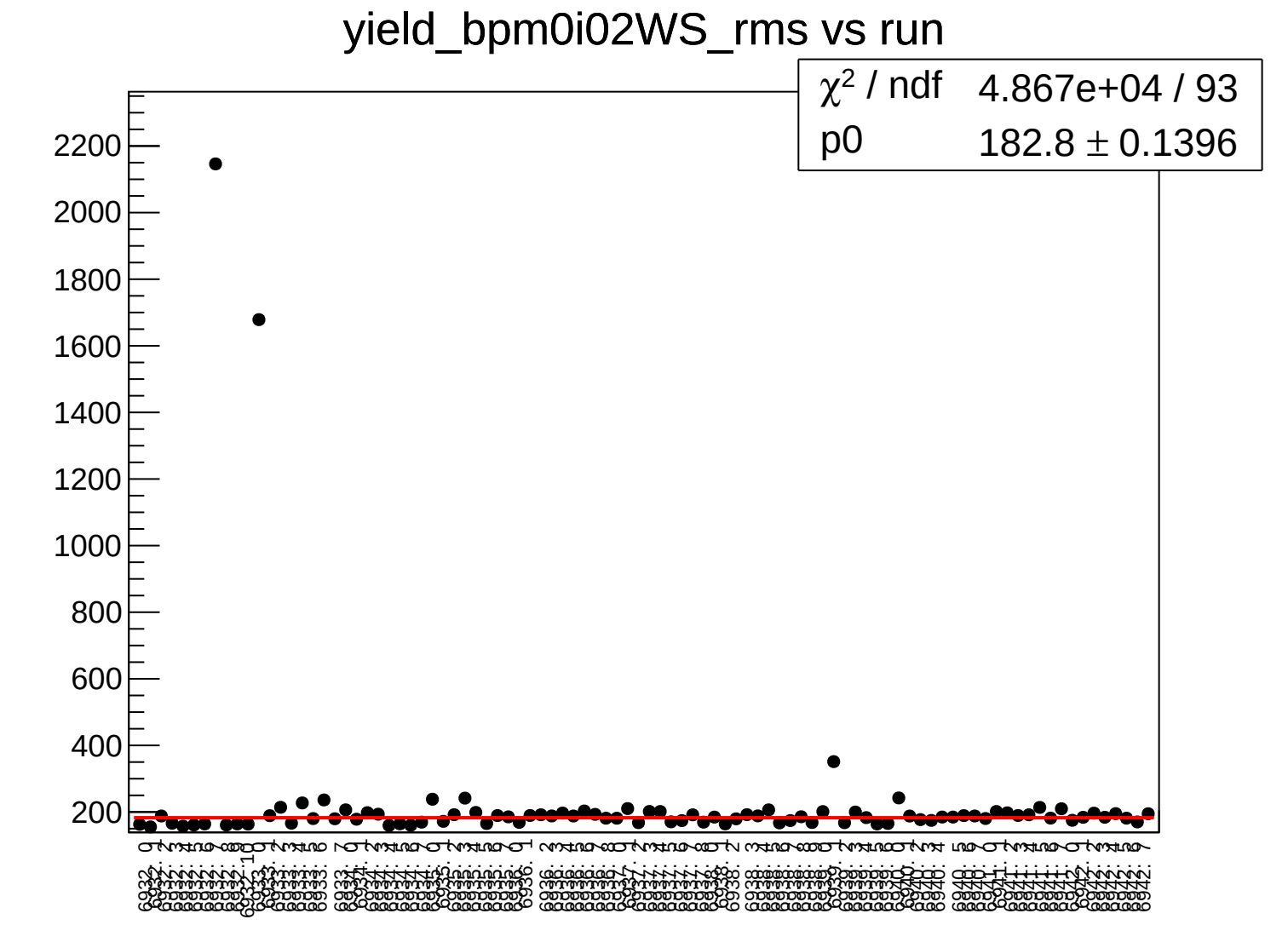

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 7.208e+06 / 93
p0 1.306e+05 ± 0.3476
131
130
129
128
127
126
125
pull
Entries 94
Mean −1128
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

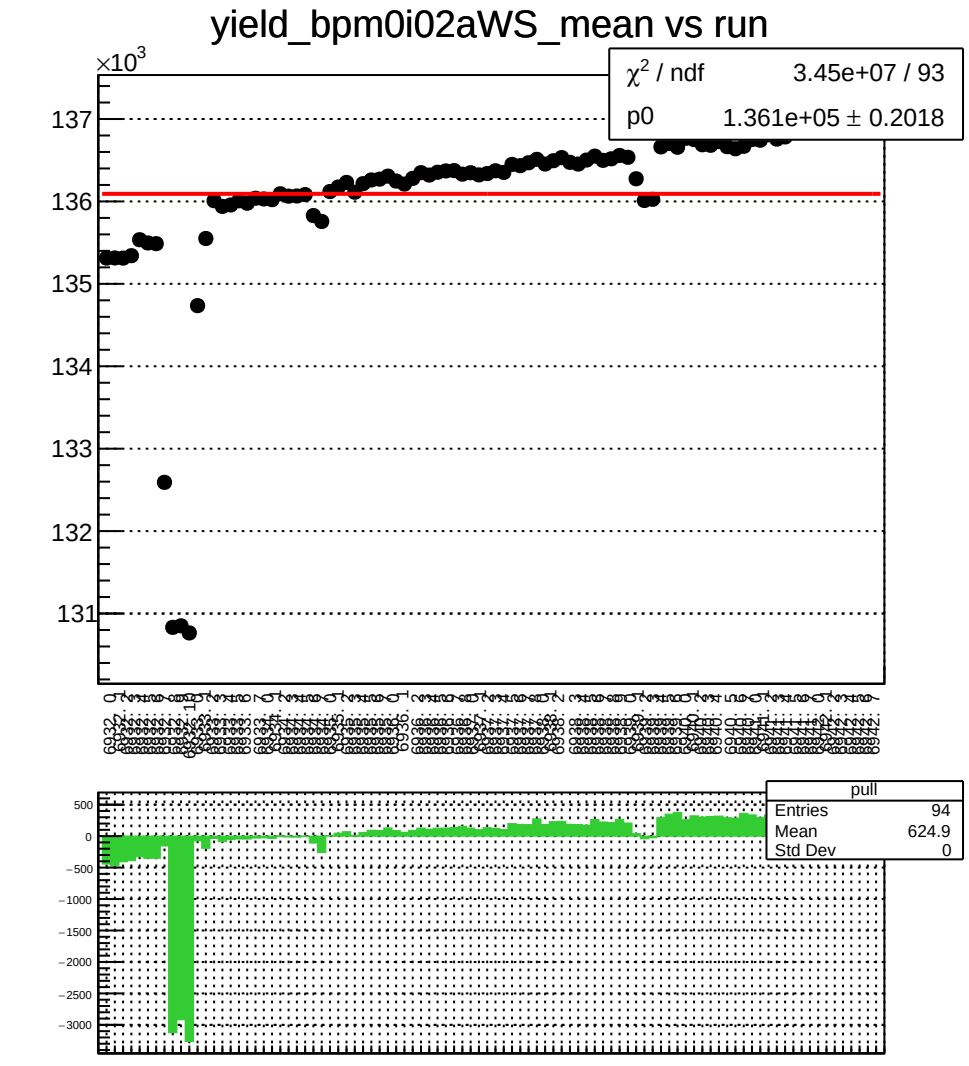

pull1D
Entries 94
Mean 0.3362
Std Dev 4.312
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

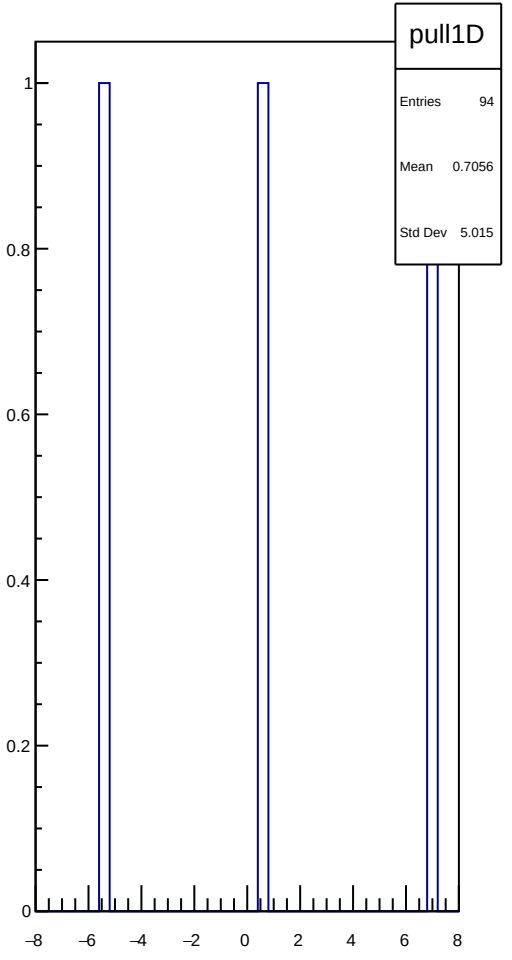

yield_bpm0r05WS_rms vs run
χ² / ndf 2.972e+04 / 93
p0 323.7 ± 0.2458
2500
2000
1500
1000
500

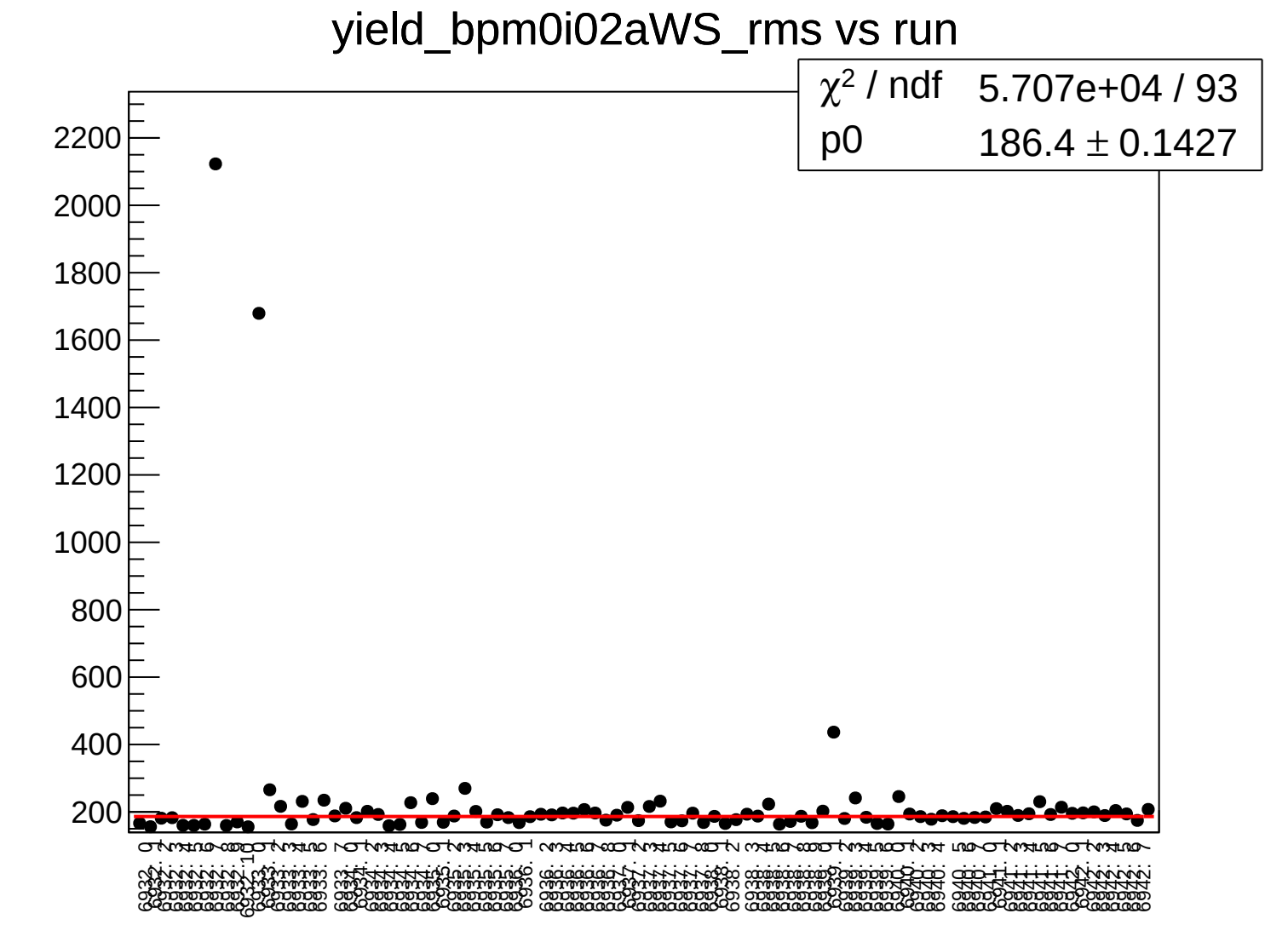

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.316e+07 / 93
p0 1.454e+05 ± 0.1974
146
145
144
143
142
141
pull
Entries 94
Mean 724.1
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

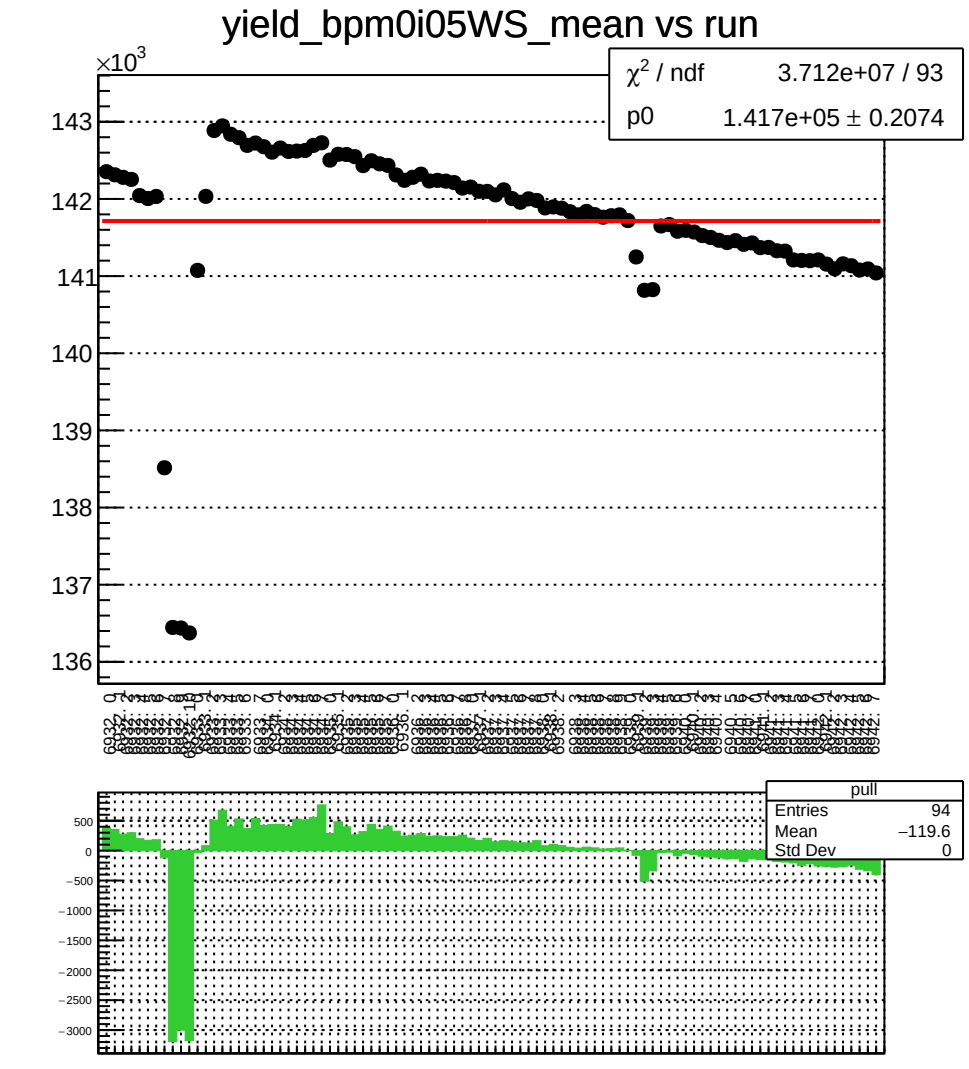

pull1D
Entries 94
Mean −2.924
Std Dev 5.652
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

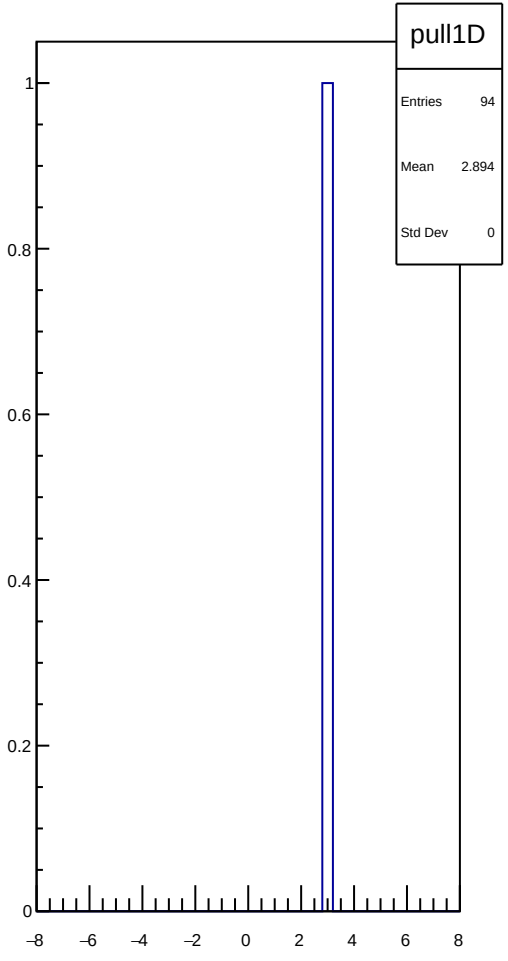

yield_bpm0i02WS_rms vs run
χ² / ndf 4.867e+04 / 93
p0 182.8 ± 0.1396
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

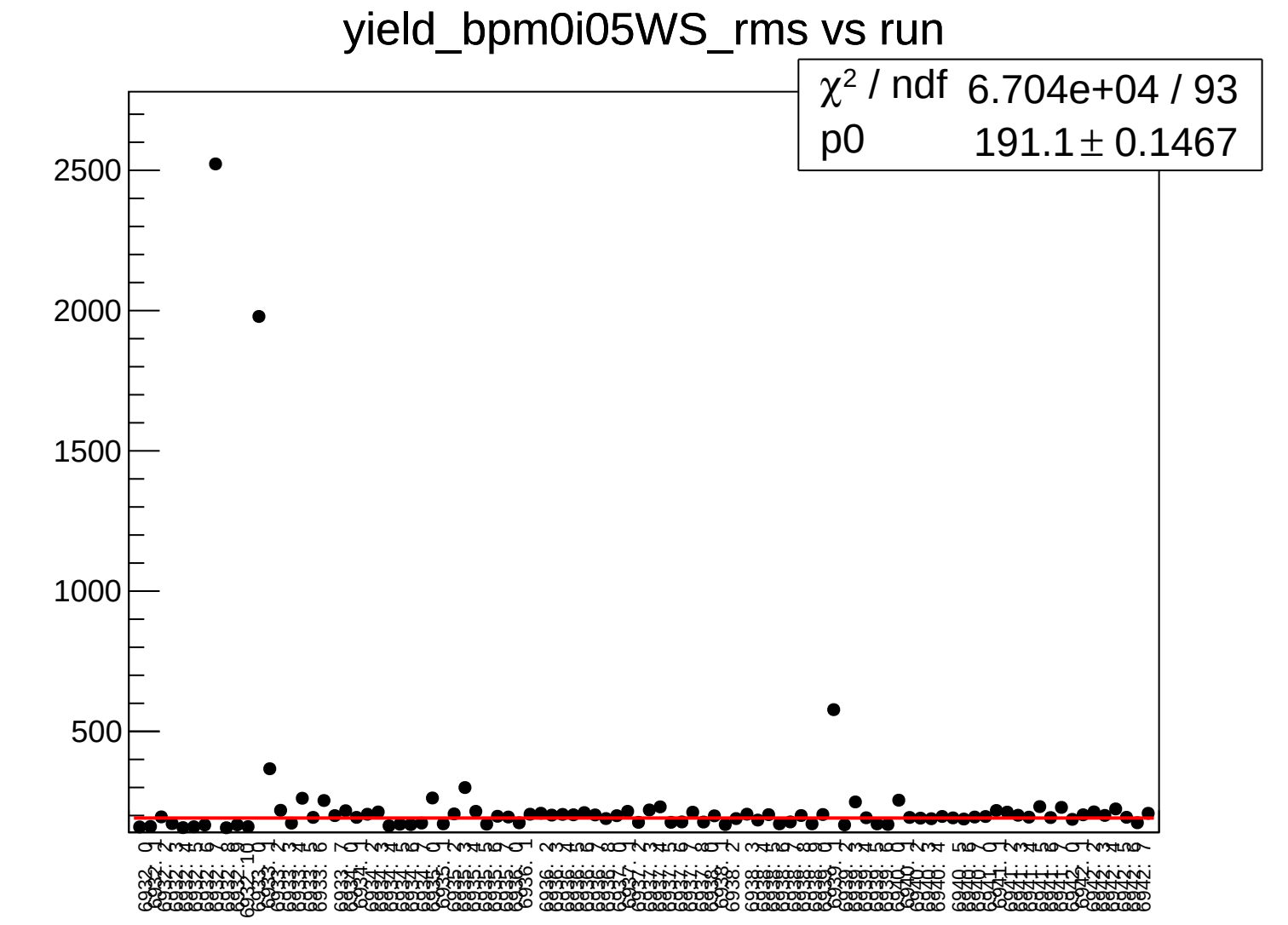

yield_bpm0i02aWS_mean vs run
×10^3
137
136
135
134
133
132
131
χ² / ndf 3.45e+07 / 93
p0 1.361e+05 ± 0.2018
pull
Entries 94
Mean 624.9
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

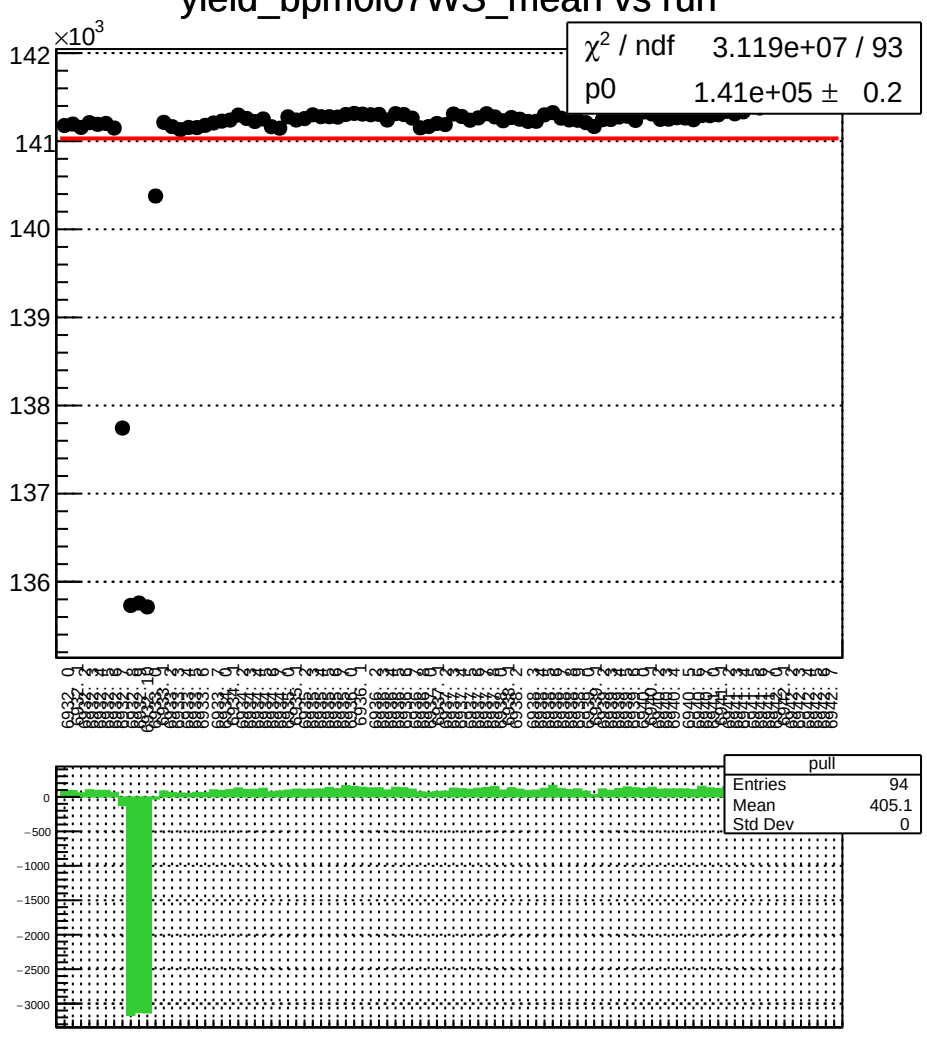

pull1D
Entries 94
Mean 0.7056
Std Dev 5.015
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

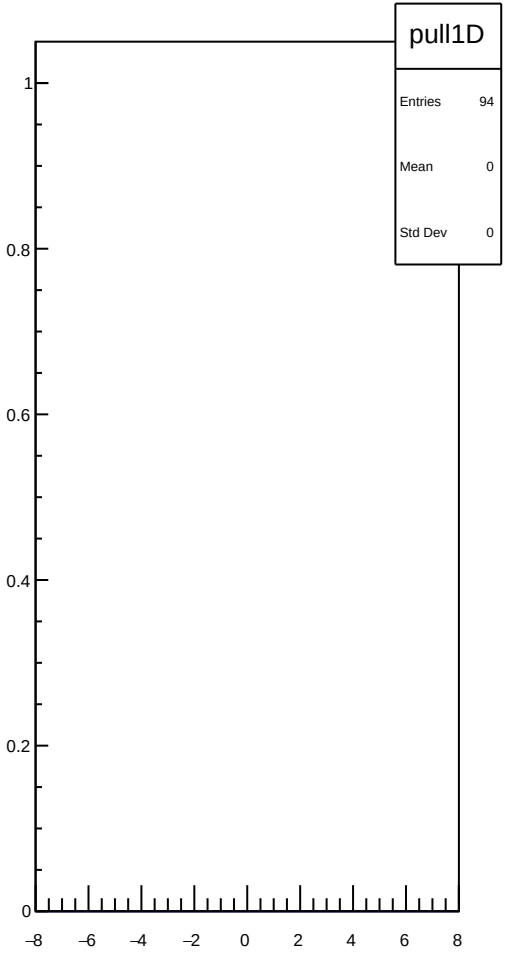

yield_bpm0i02aWS_rms vs run
χ² / ndf 5.707e+04 / 93
p0 186.4 ± 0.1427
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

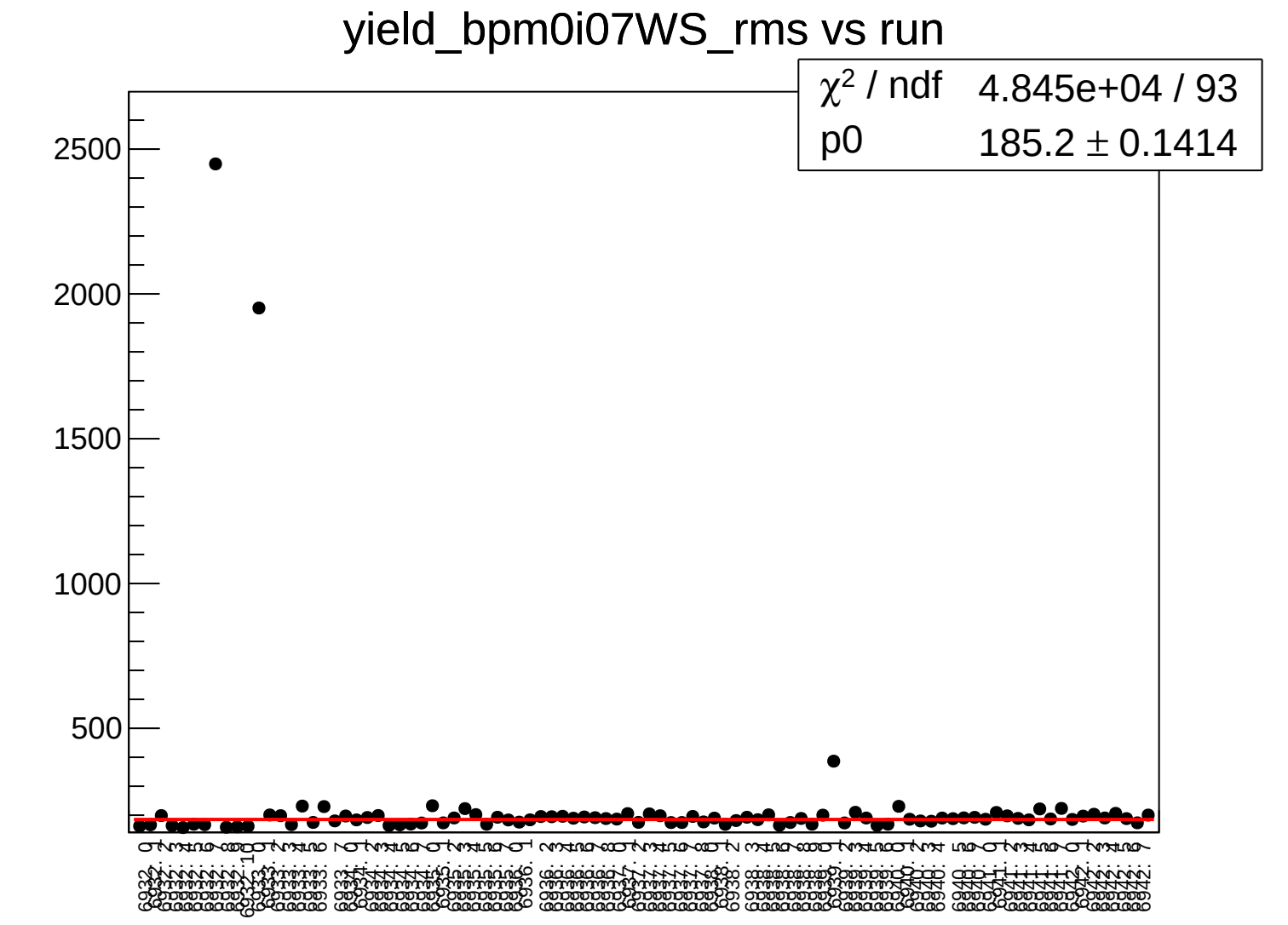

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.712e+07 / 93
p0 1.417e+05 ± 0.2074
143
142
141
140
139
138
137
136
pull
Entries 94
Mean −119.6
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000

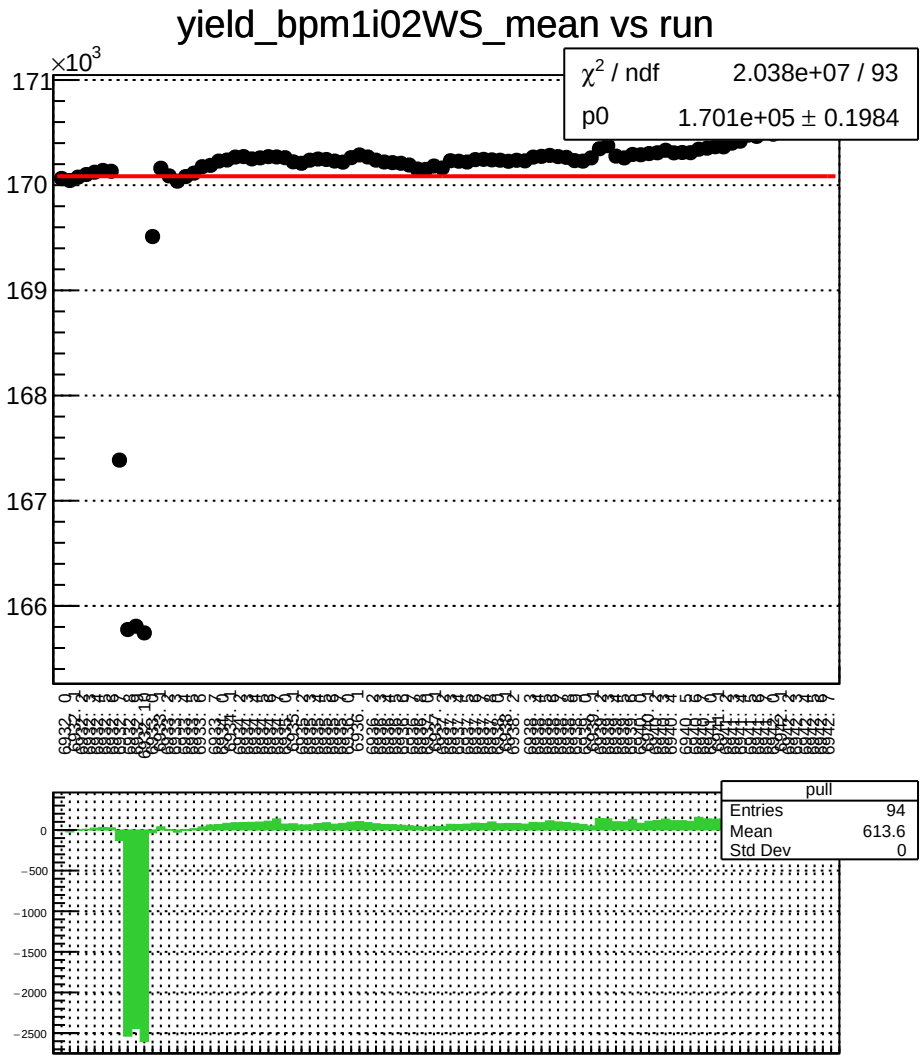

pull1D
Entries 94
Mean 2.894
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

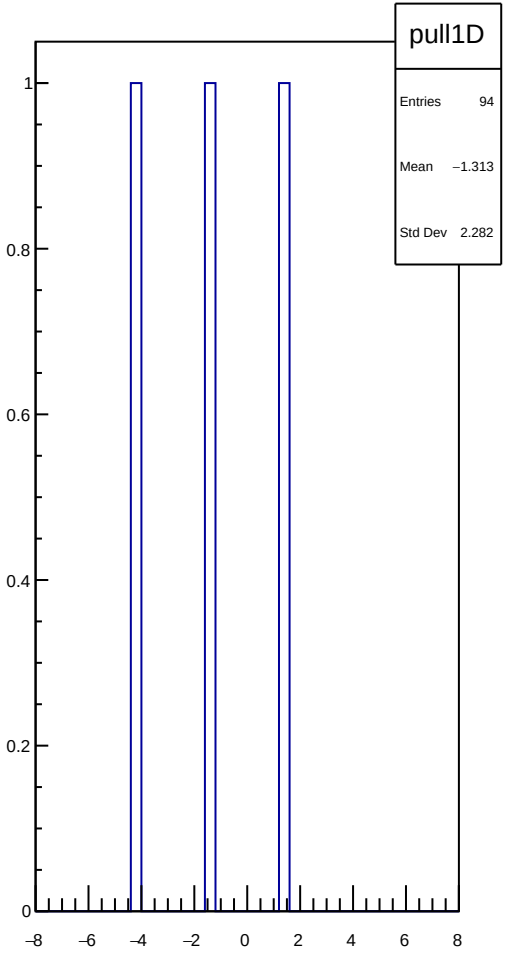

yield_bpm0i05WS_rms vs run
χ² / ndf 6.704e+04 / 93
p0 191.1 ± 0.1467
2500
2000
1500
1000
500

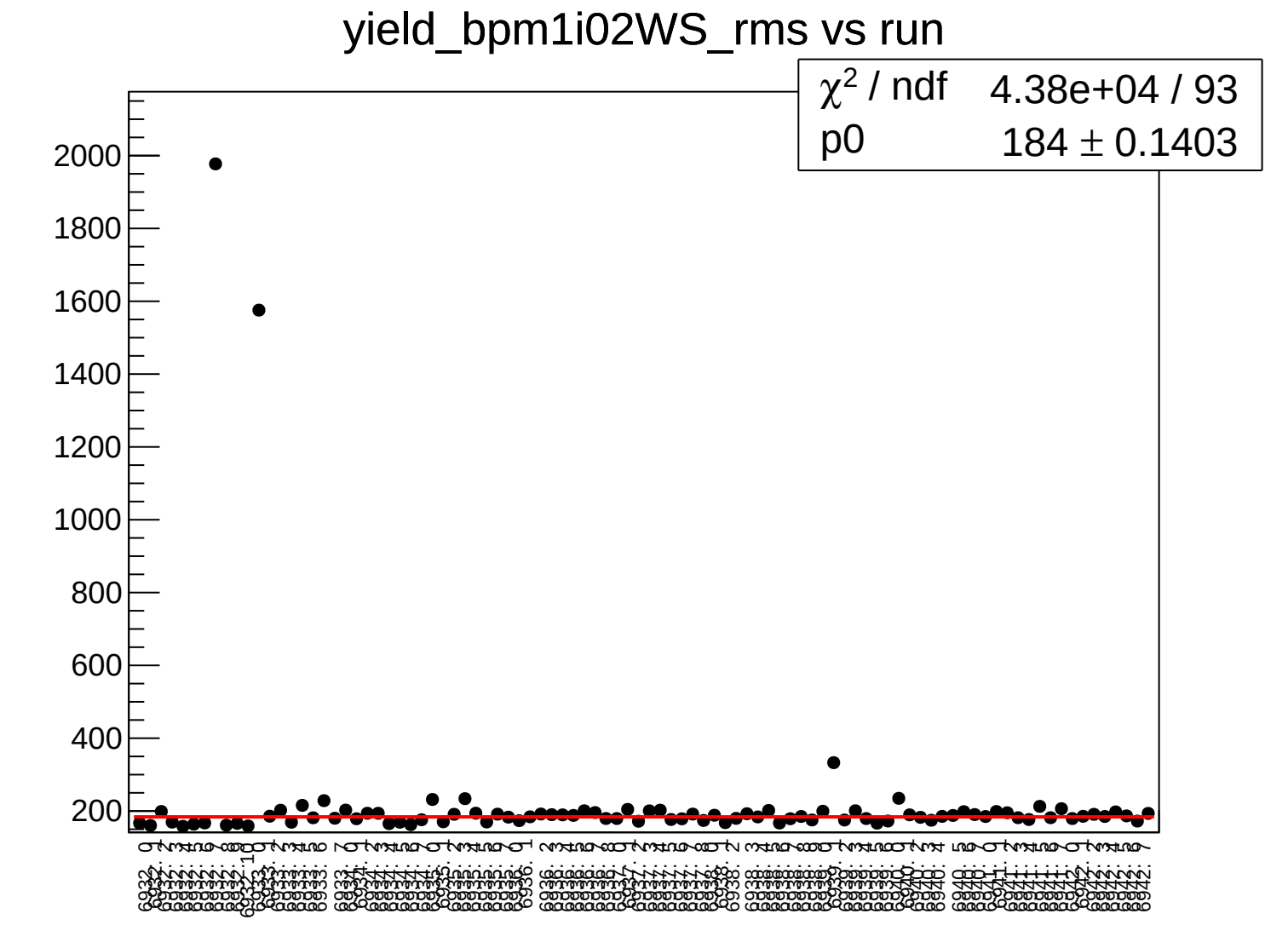

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.119e+07 / 93
p0 1.41e+05 ± 0.2
142
141
140
139
138
137
136
pull
Entries 94
Mean 405.1
Std Dev 0
0
−500
−1000
−1500
−2000
−2500
−3000

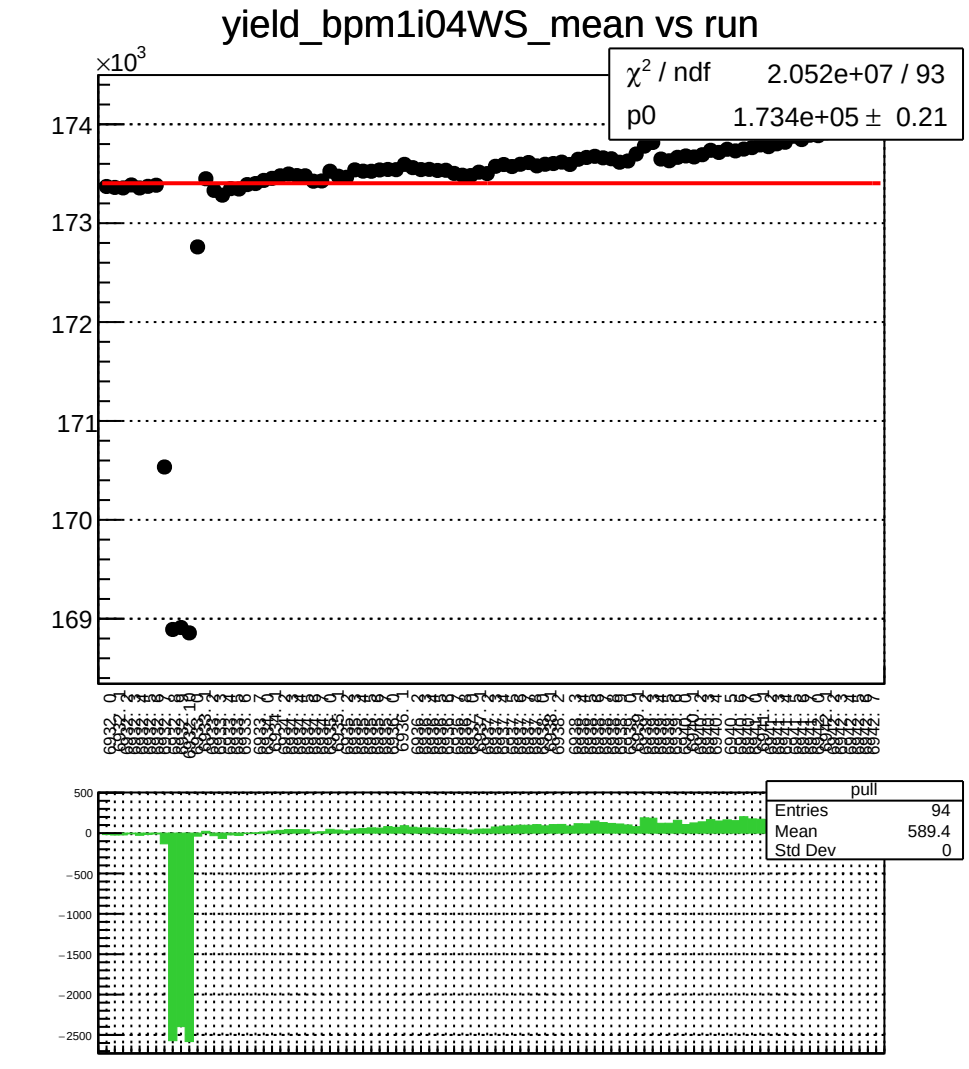

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

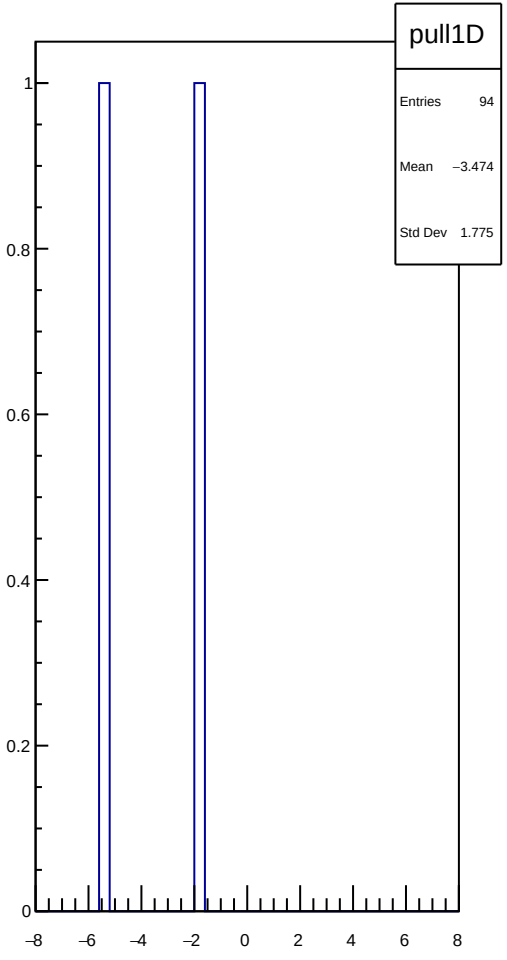

yield_bpm0i07WS_rms vs run
χ² / ndf 4.845e+04 / 93
p0 185.2 ± 0.1414
2500
2000
1500
1000
500

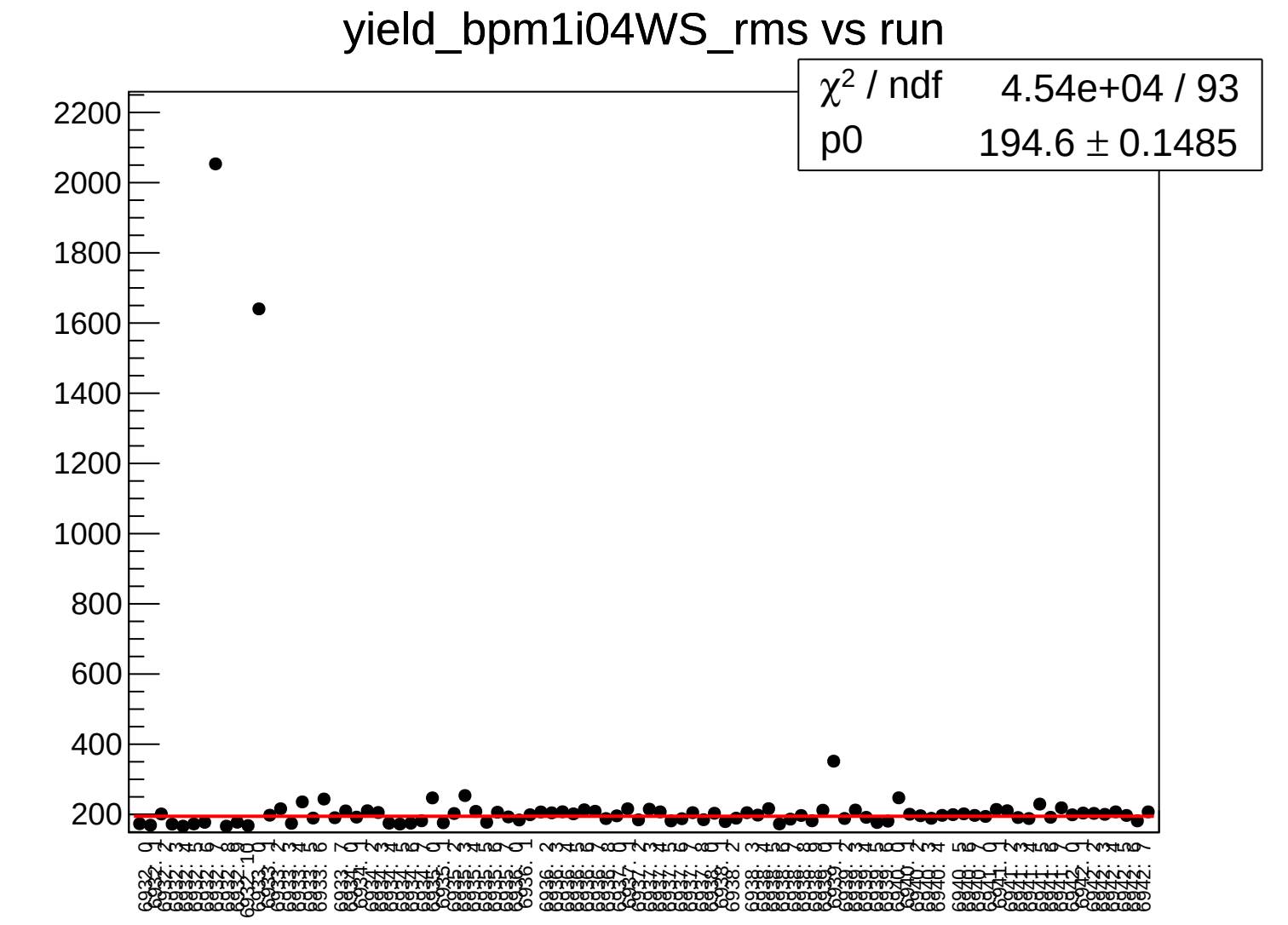

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.038e+07 / 93
p0 1.701e+05 ± 0.1984
171
170
169
168
167
166
pull
Entries 94
Mean 613.6
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

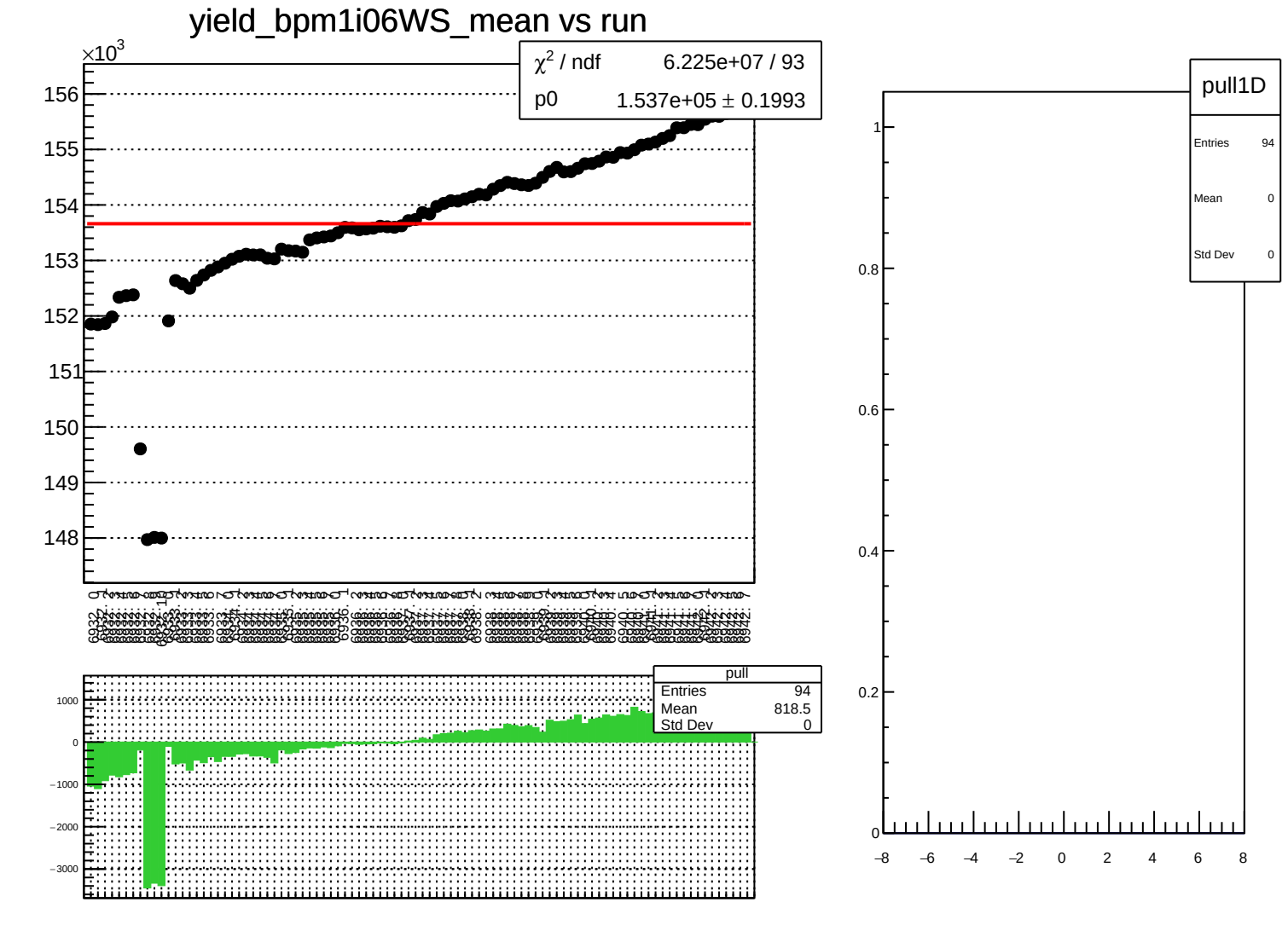

pull1D
Entries 94
Mean −1.313
Std Dev 2.282
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

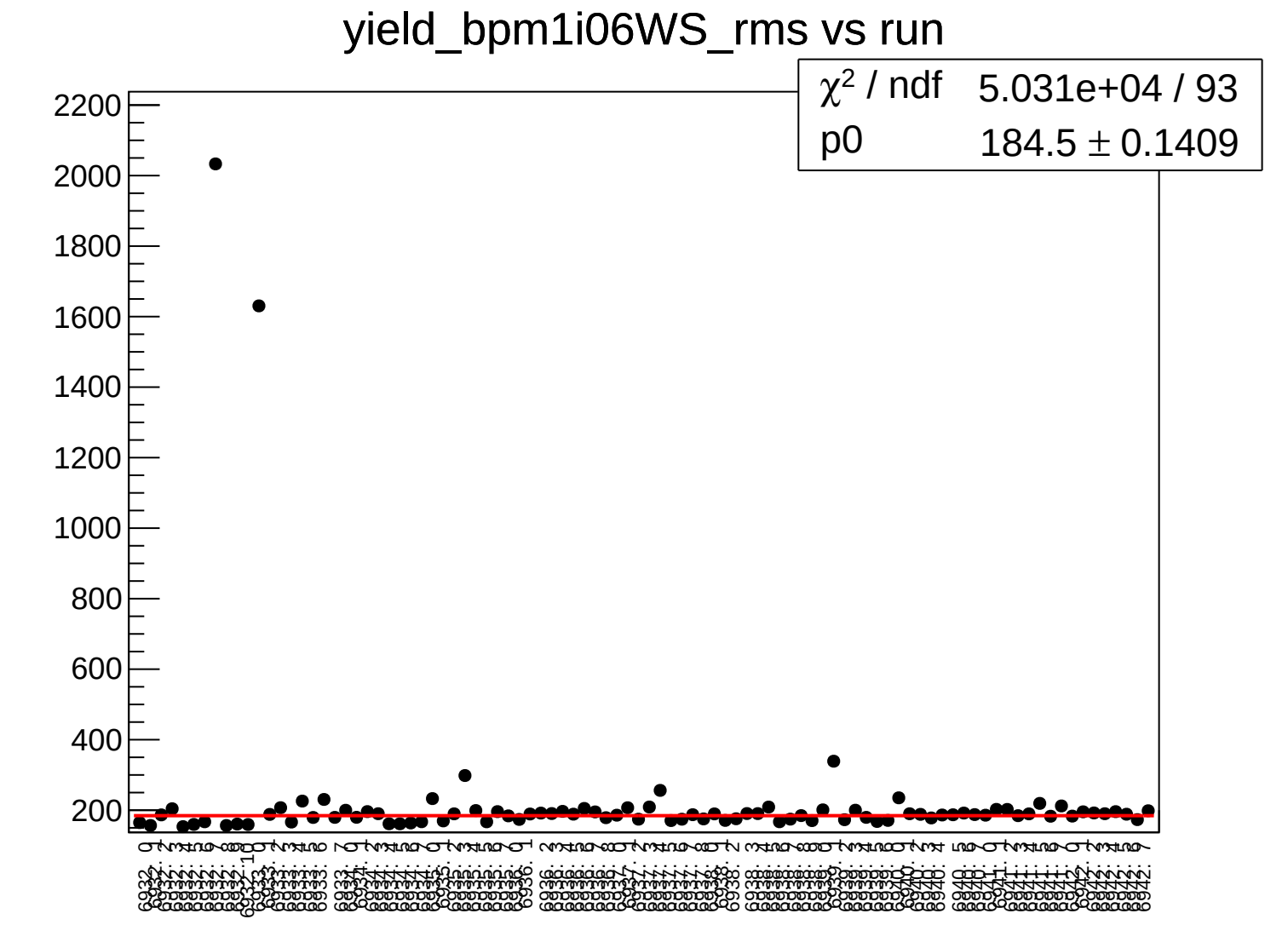

yield_bpm1i02WS_rms vs run
χ² / ndf 4.38e+04 / 93
p0 184 ± 0.1403
2000
1800
1600
1400
1200
1000
800
600
400
200

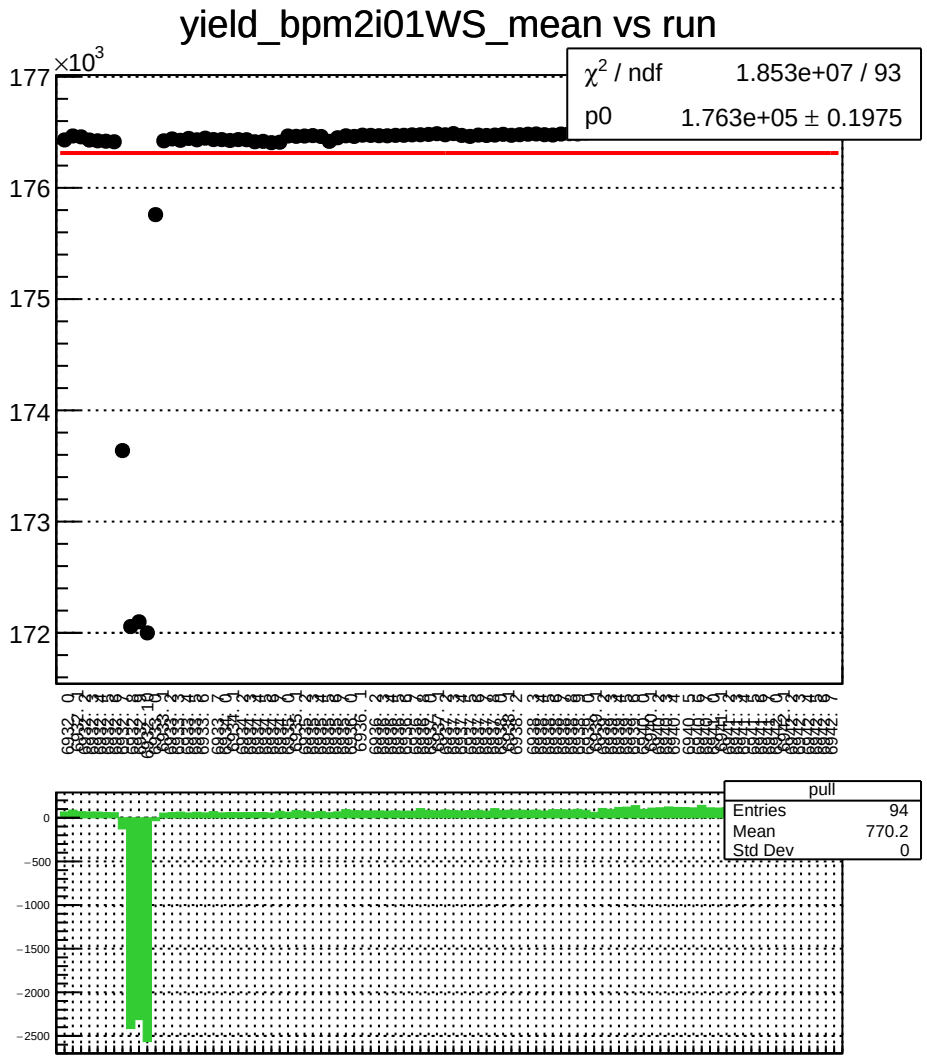

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.052e+07 / 93
p0 1.734e+05 ± 0.21
174
173
172
171
170
169
pull
Entries 94
Mean 589.4
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500

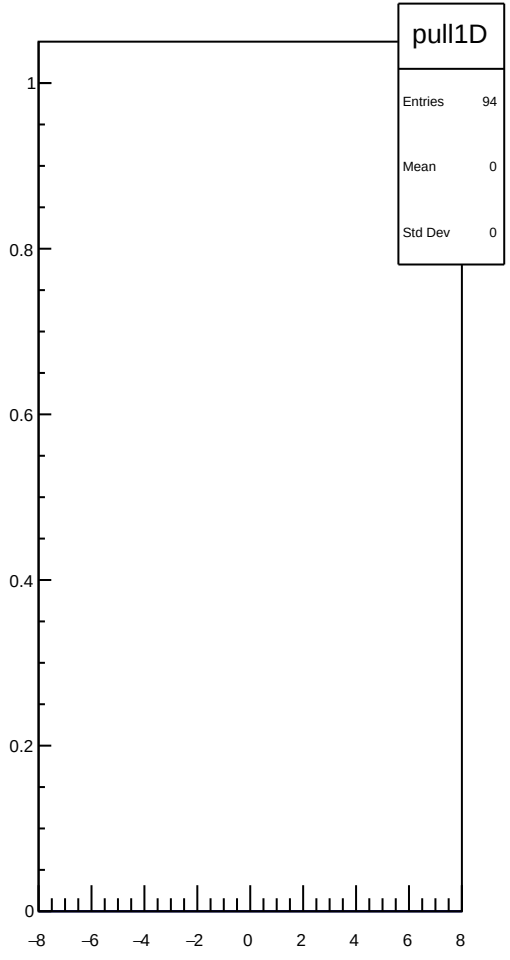

pull1D
Entries 94
Mean −3.474
Std Dev 1.775
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

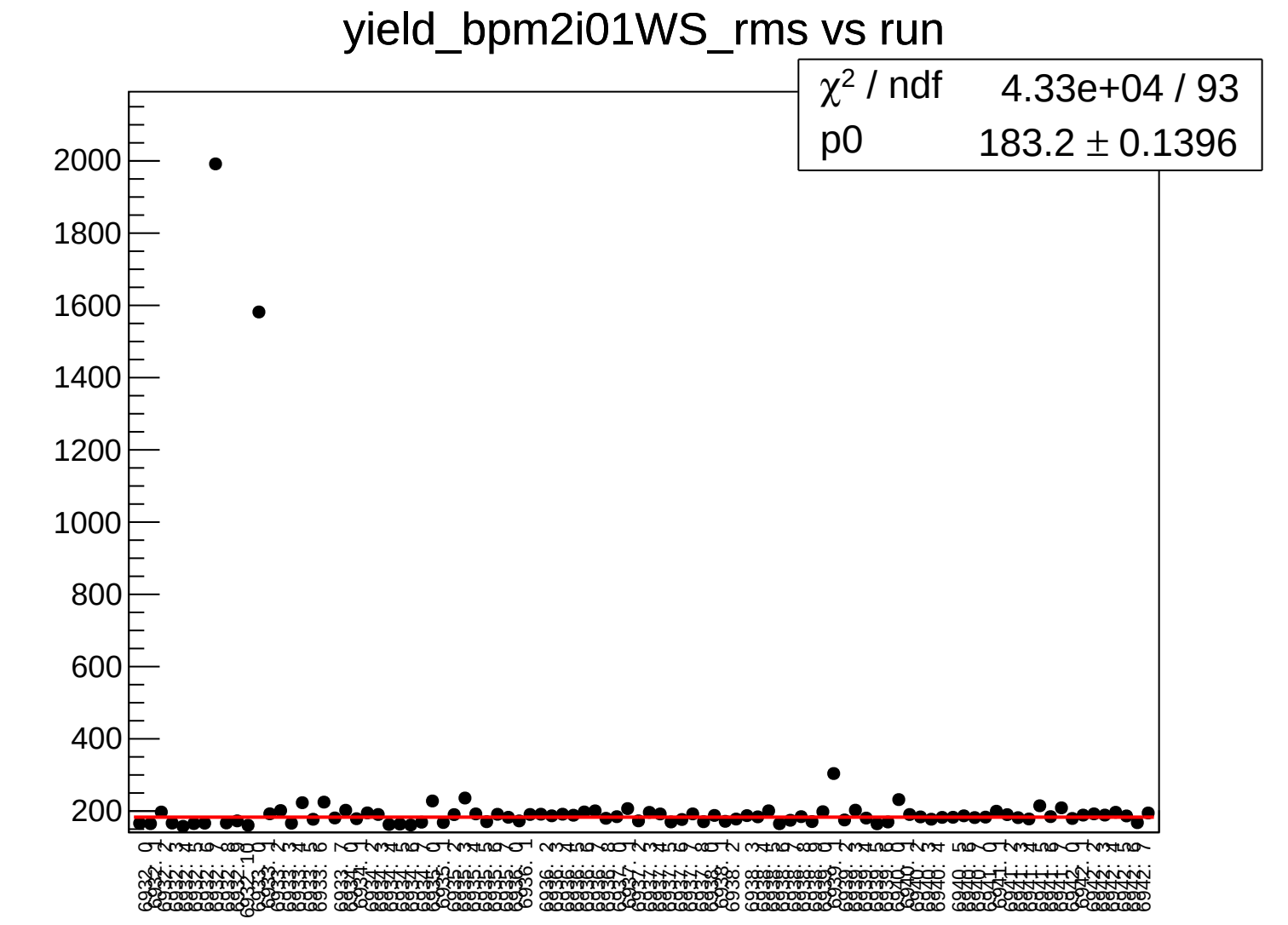

yield_bpm1i04WS_rms vs run
χ² / ndf 4.54e+04 / 93
p0 194.6 ± 0.1485
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

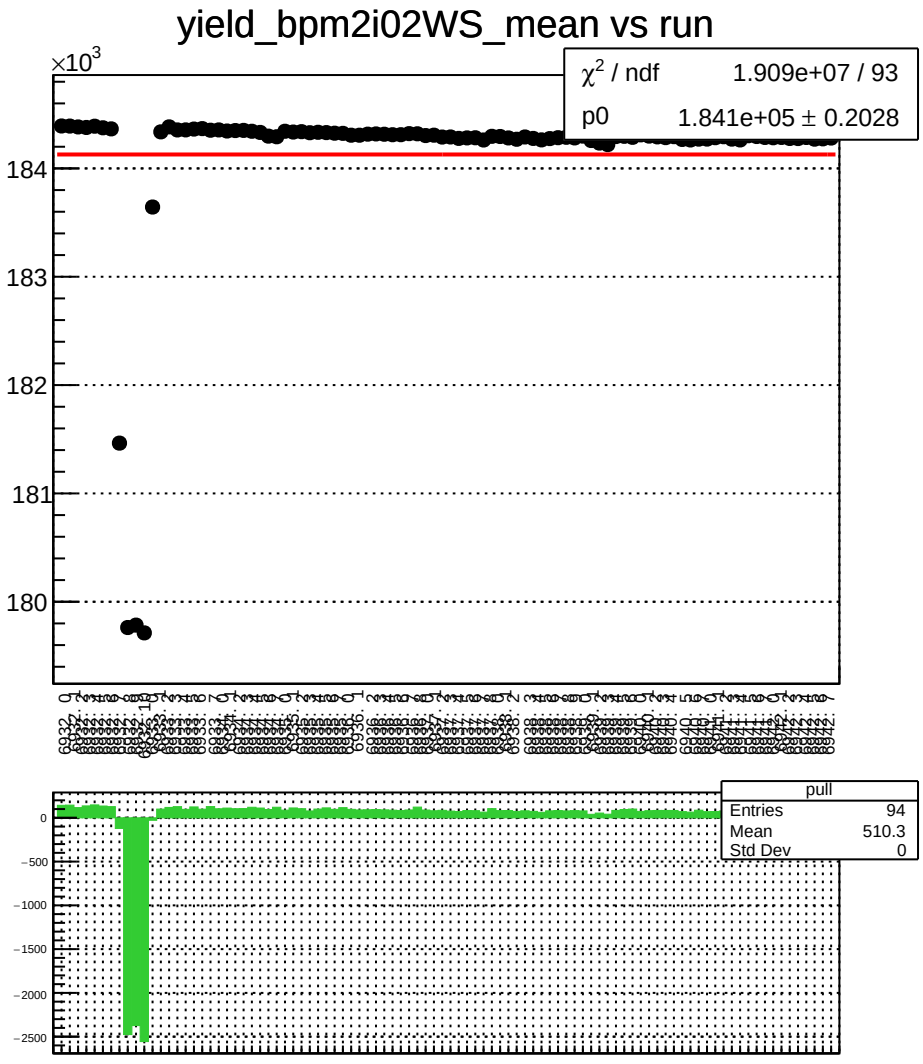

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.225e+07 / 93
p0 1.537e+05 ± 0.1993
156
155
154
153
152
151
150
149
148
pull
Entries 94
Mean 818.5
Std Dev 0
1000
0
−1000
−2000
−3000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

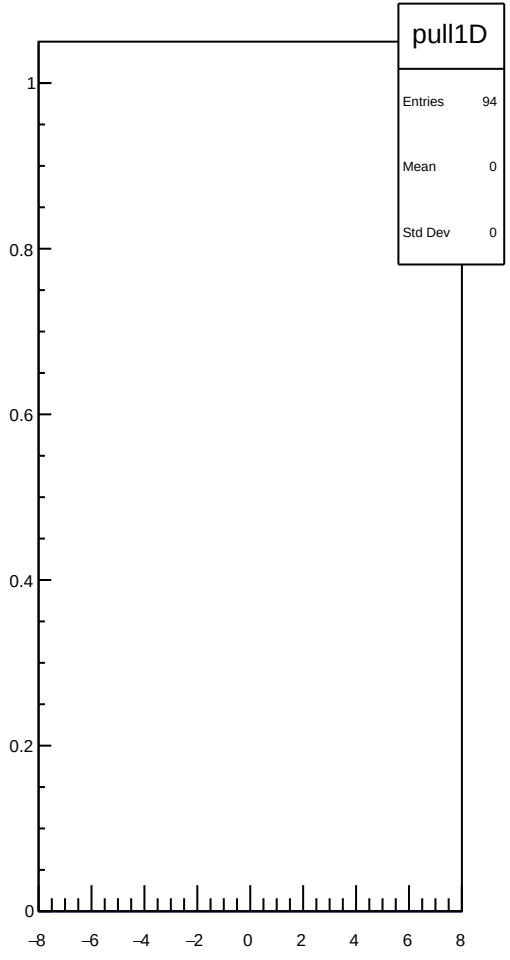

yield_bpm1i06WS_rms vs run
χ² / ndf 5.031e+04 / 93
p0 184.5 ± 0.1409
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

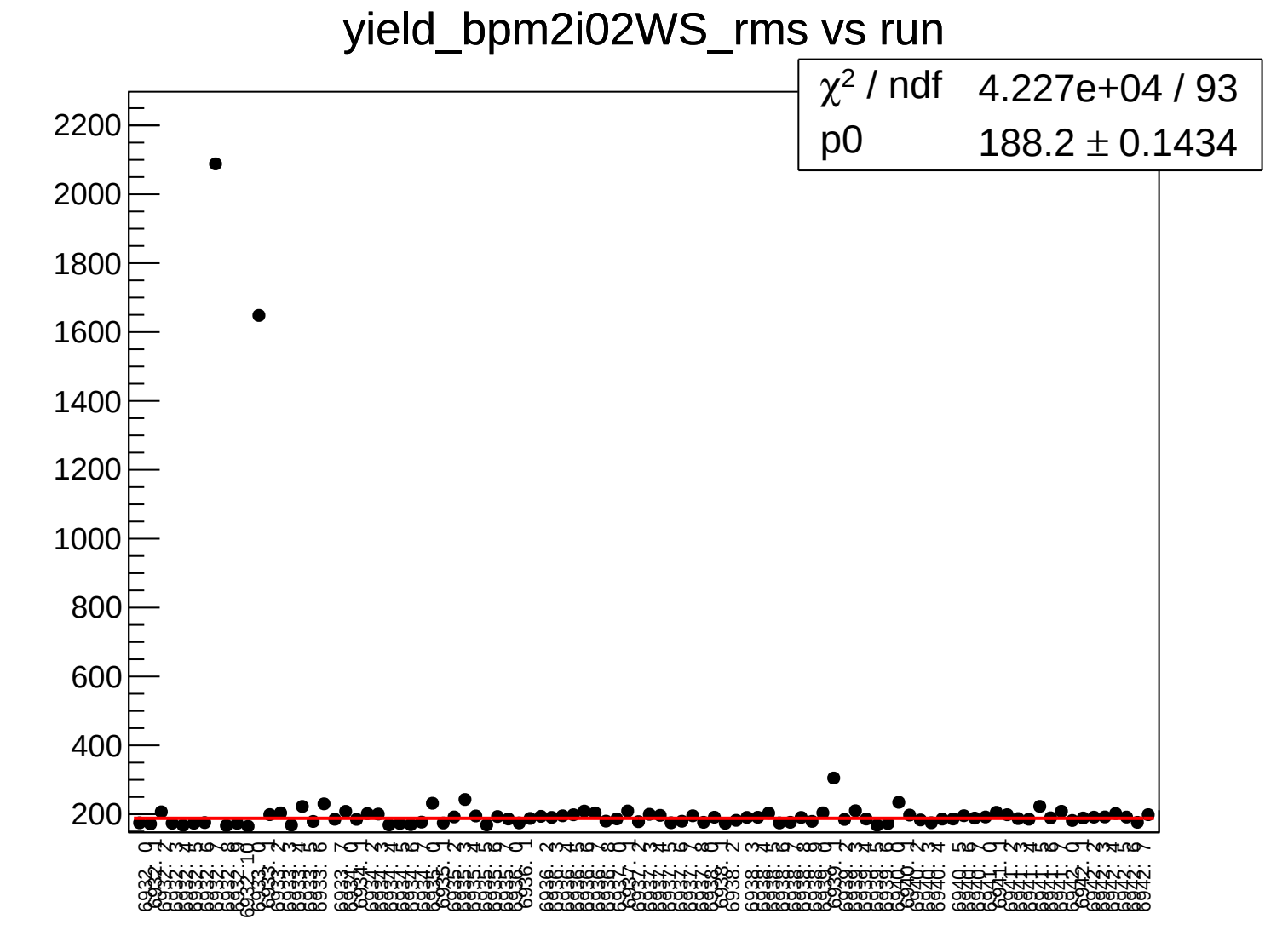

yield_bpm2i01WS_mean vs run
×10^3
177
176
175
174
173
172
χ² / ndf 1.853e+07 / 93
p0 1.763e+05 ± 0.1975
pull
Entries 94
Mean 770.2
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

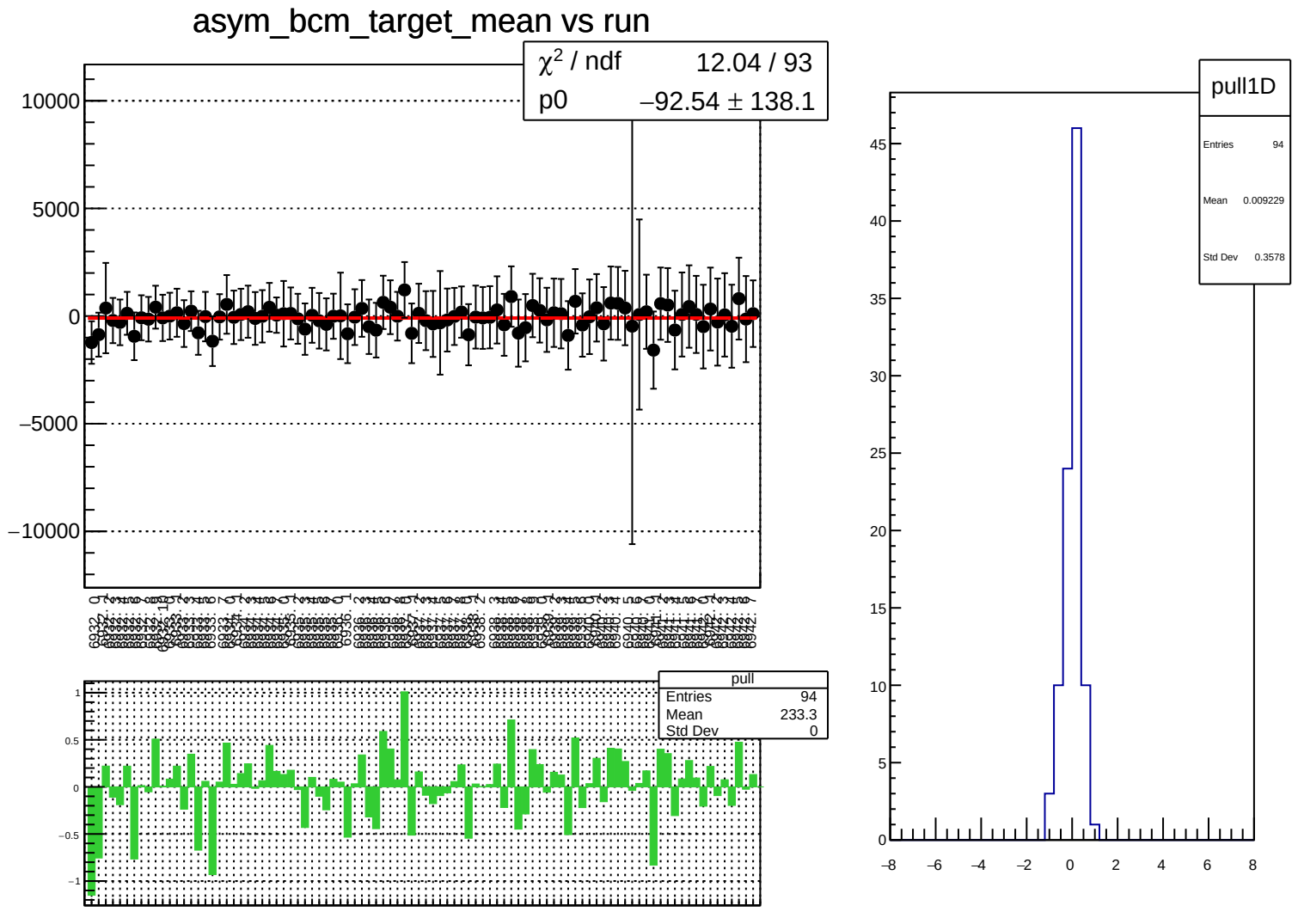

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

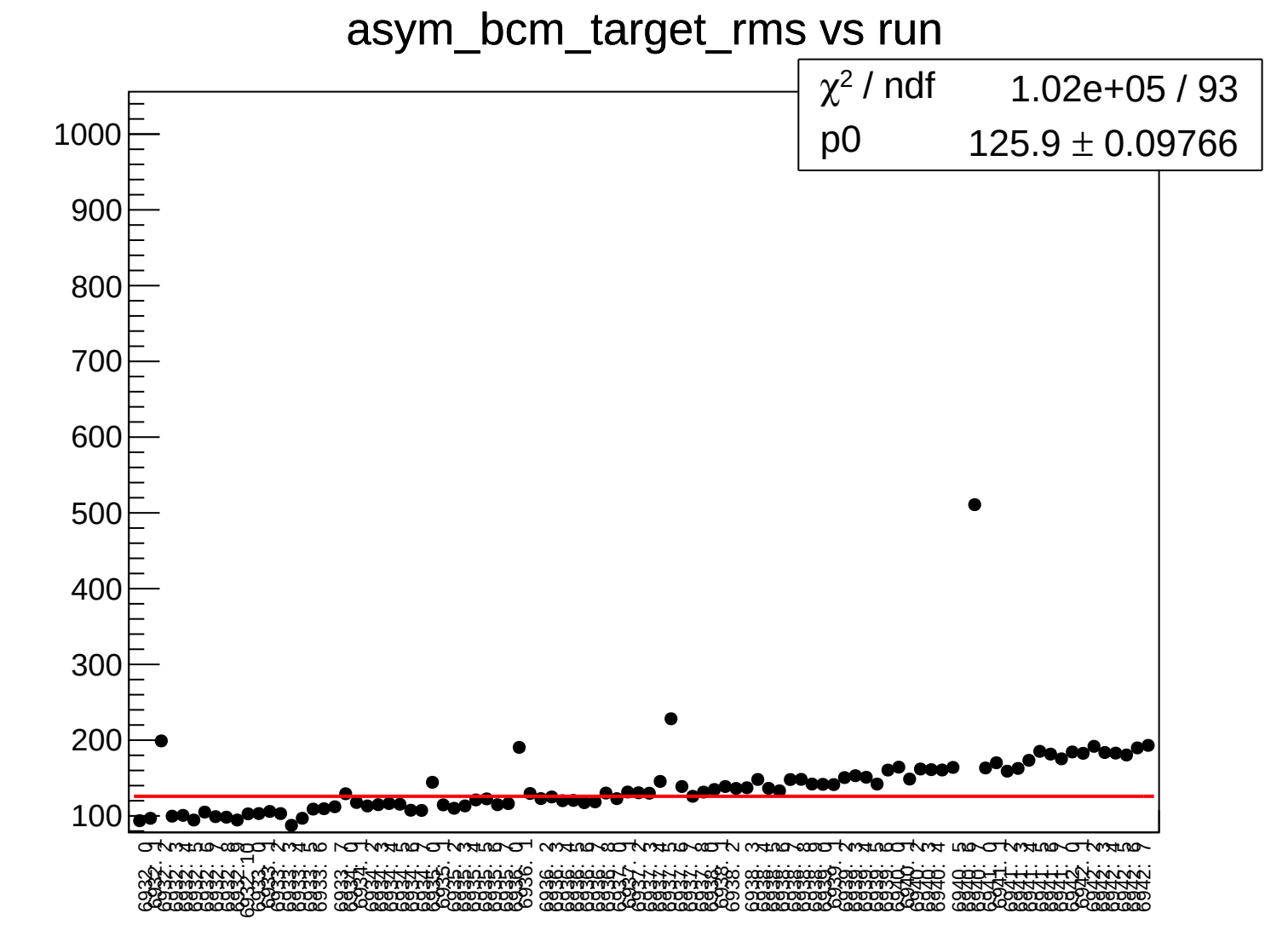

yield_bpm2i01WS_rms vs run
χ² / ndf 4.33e+04 / 93
p0 183.2 ± 0.1396
2000
1800
1600
1400
1200
1000
800
600
400
200

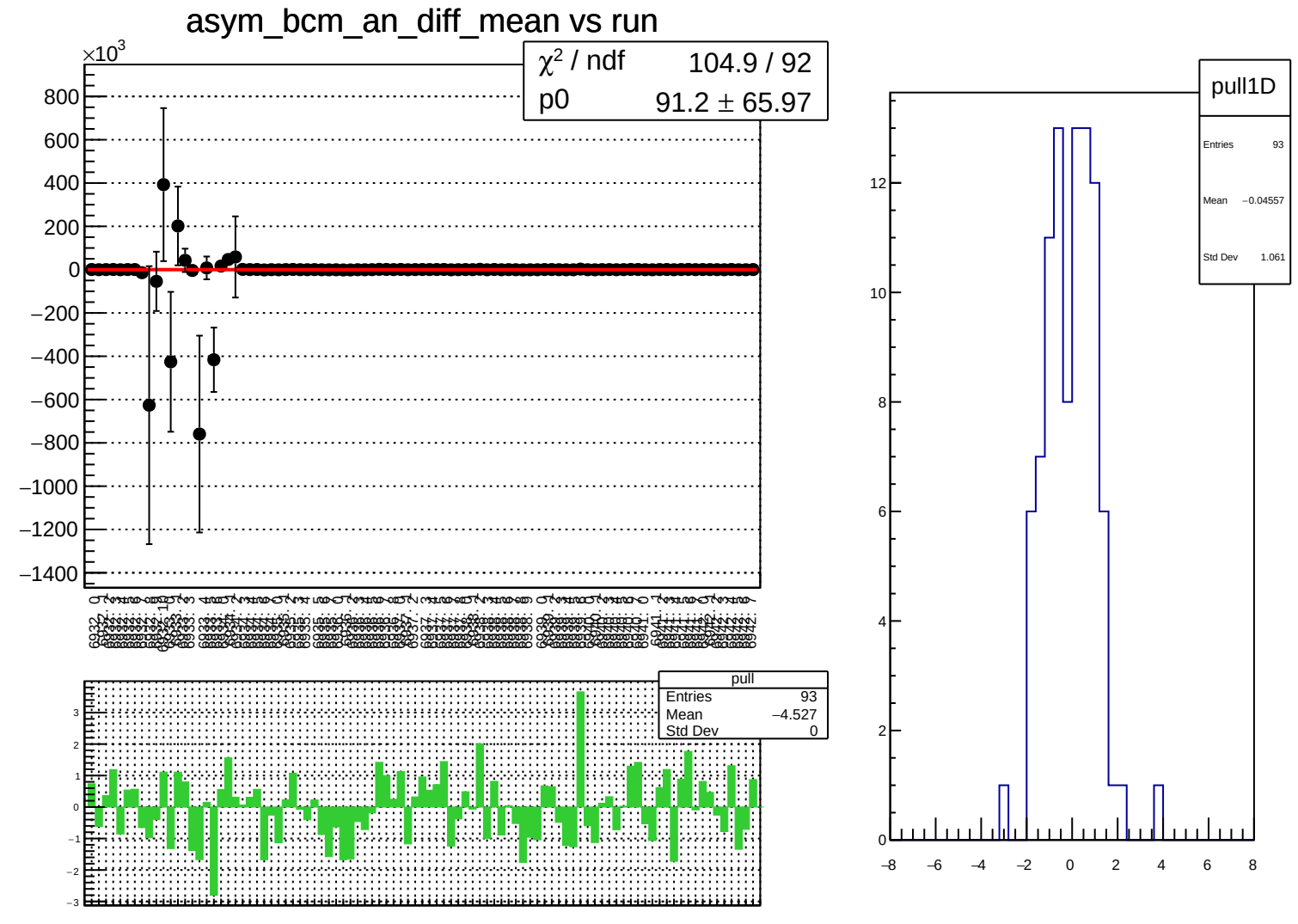

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 1.909e+07 / 93
p0 1.841e+05 ± 0.2028
184
183
182
181
180
pull
Entries 94
Mean 510.3
Std Dev 0
0
−500
−1000
−1500
−2000
−2500

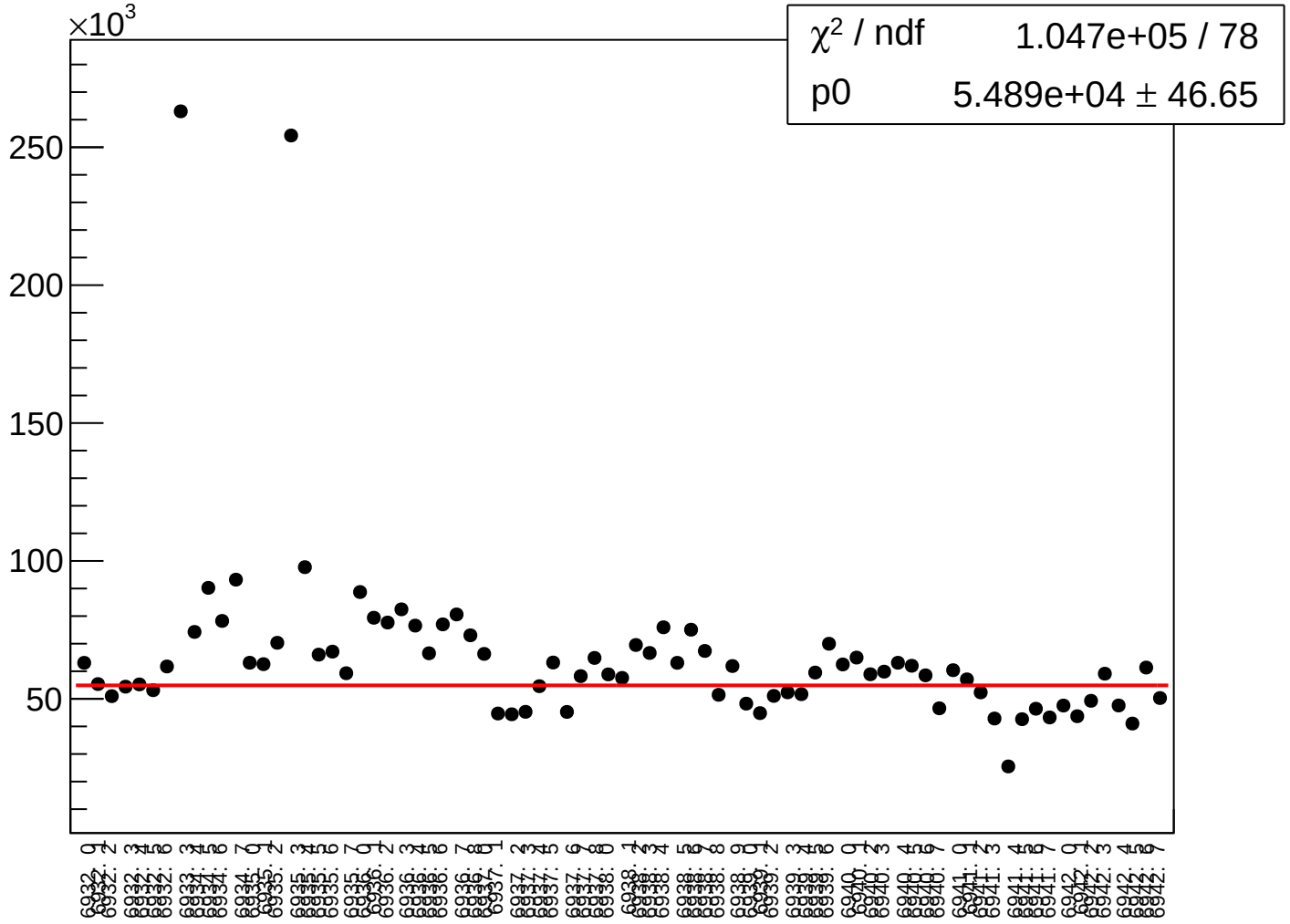

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

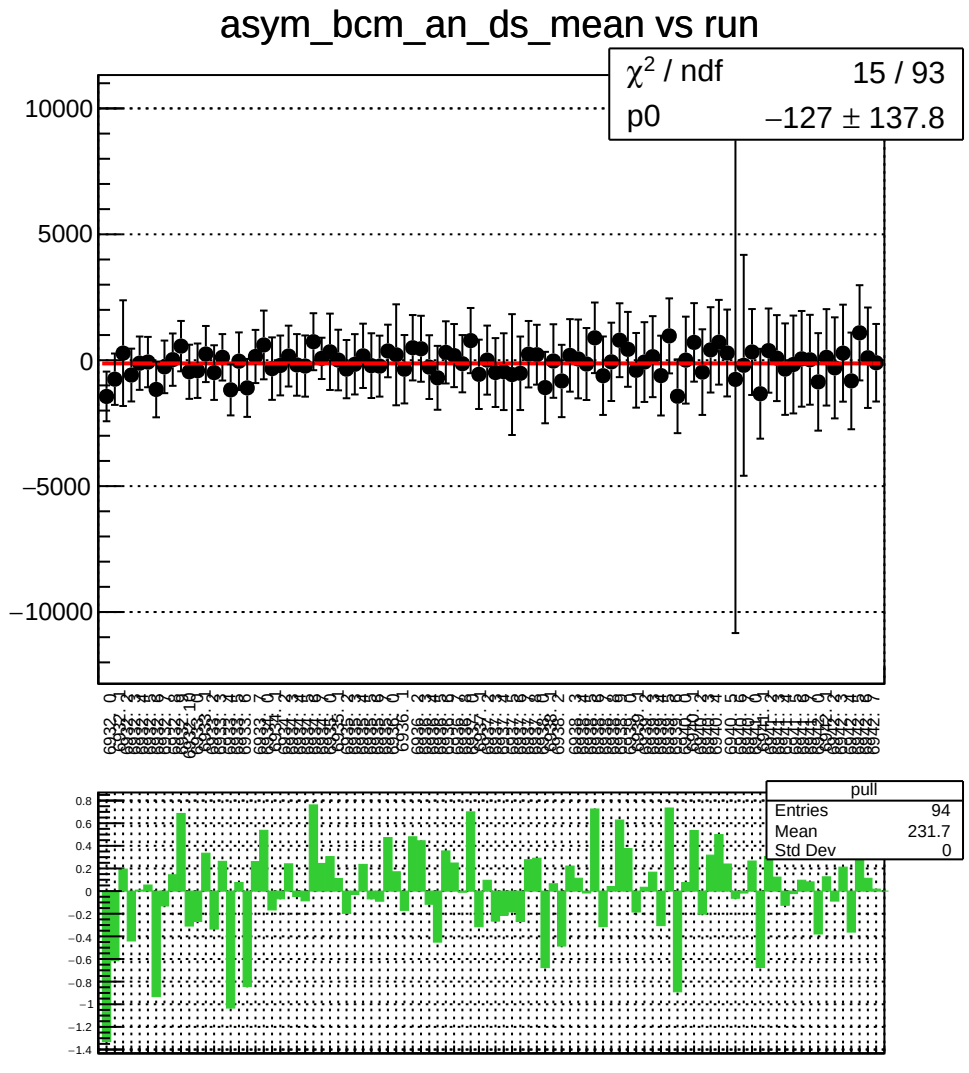

yield_bpm2i02WS_rms vs run
χ² / ndf 4.227e+04 / 93
p0 188.2 ± 0.1434
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

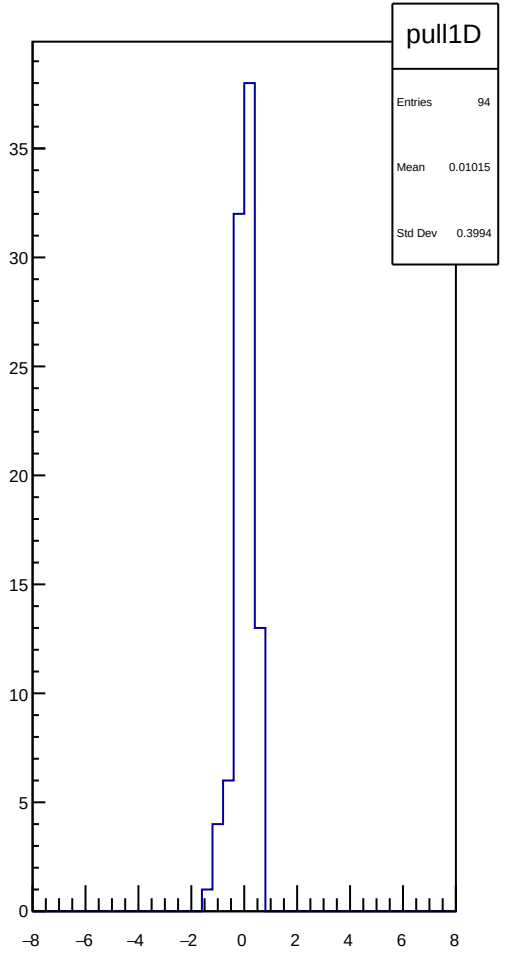

asym_bcm_target_mean vs run
χ² / ndf 12.04 / 93
p0 −92.54 ± 138.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 233.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.009229
Std Dev 0.3578
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

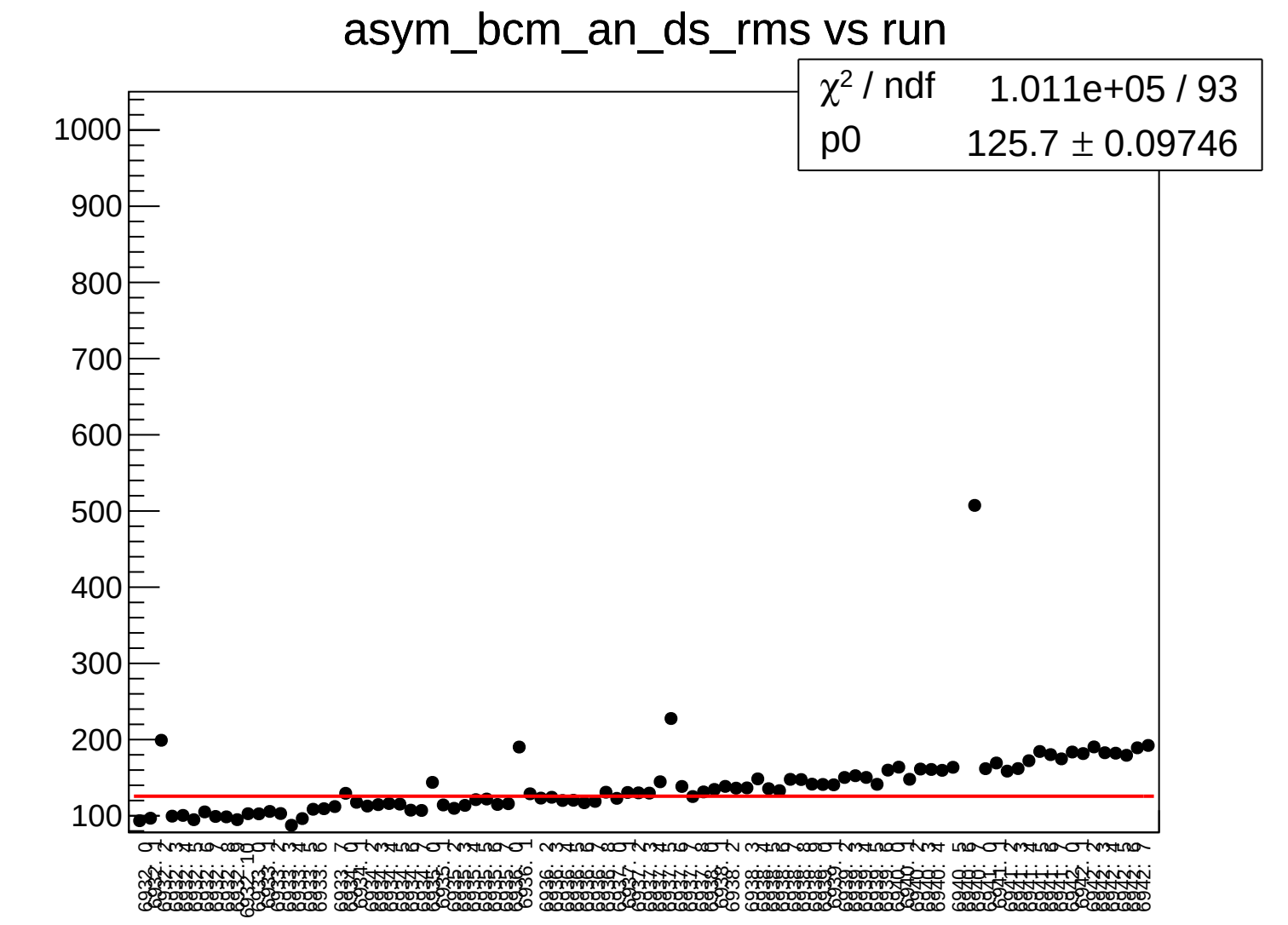

asym_bcm_target_rms vs run
χ² / ndf 1.02e+05 / 93
p0 125.9 ± 0.09766
1000
900
800
700
600
500
400
300
200
100

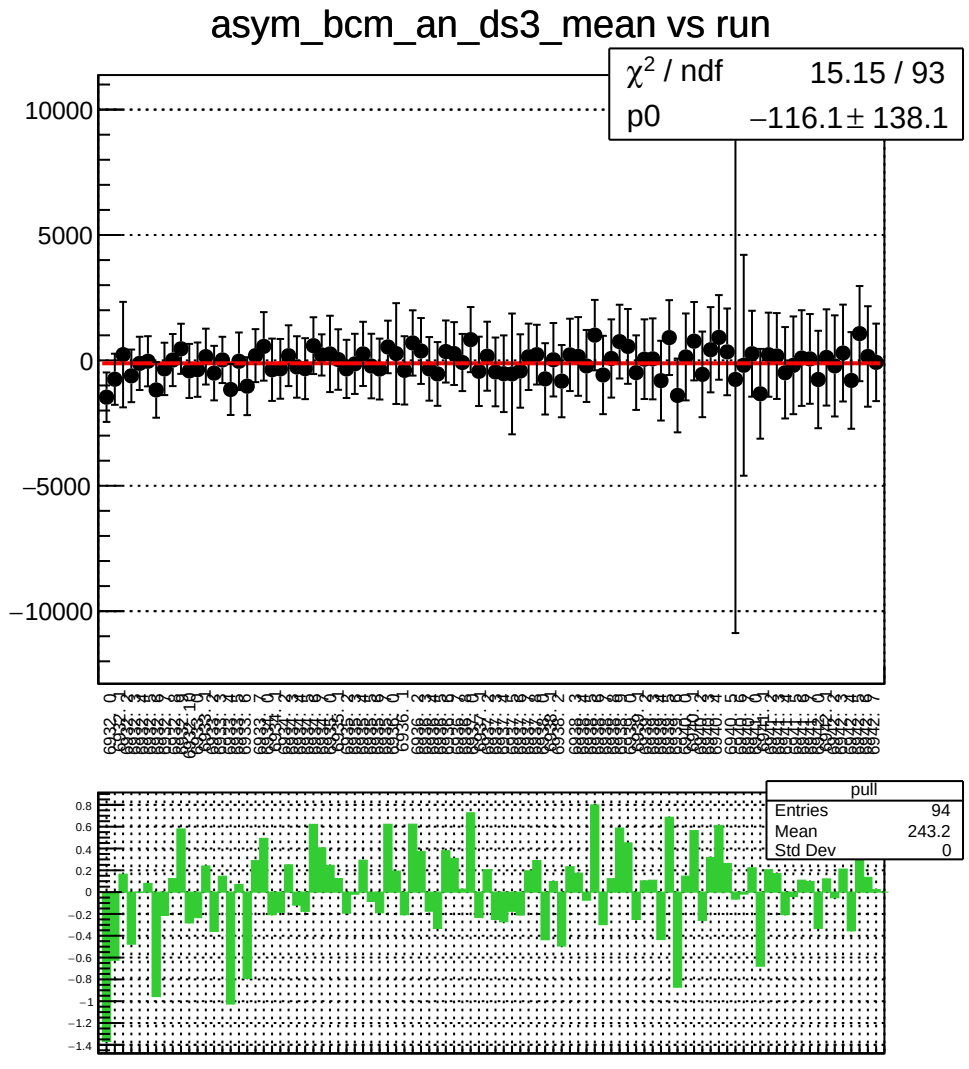

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 104.9 / 92
p0 91.2 ± 65.97
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 93
Mean −4.527
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.04557
Std Dev 1.061
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

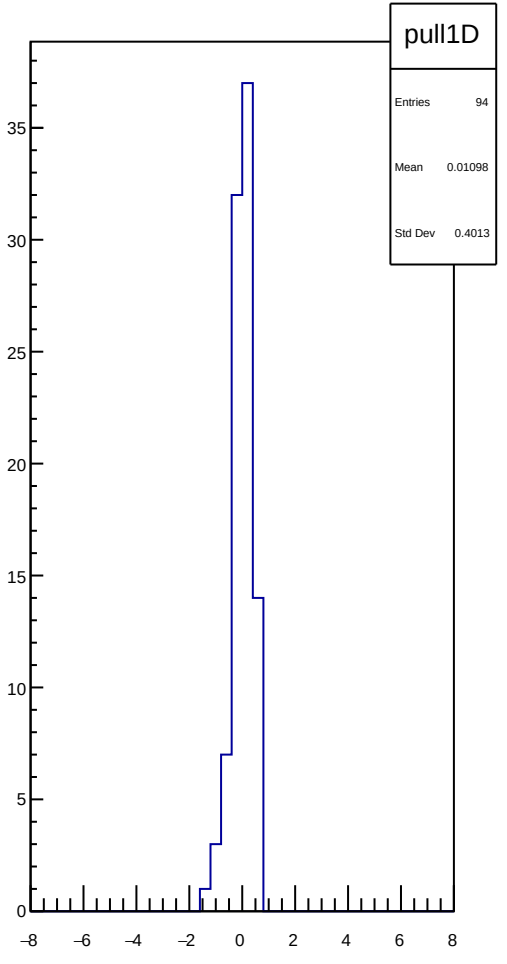

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 1.047e+05 / 78
p0 5.489e+04 ± 46.65
250
200
150
100
50

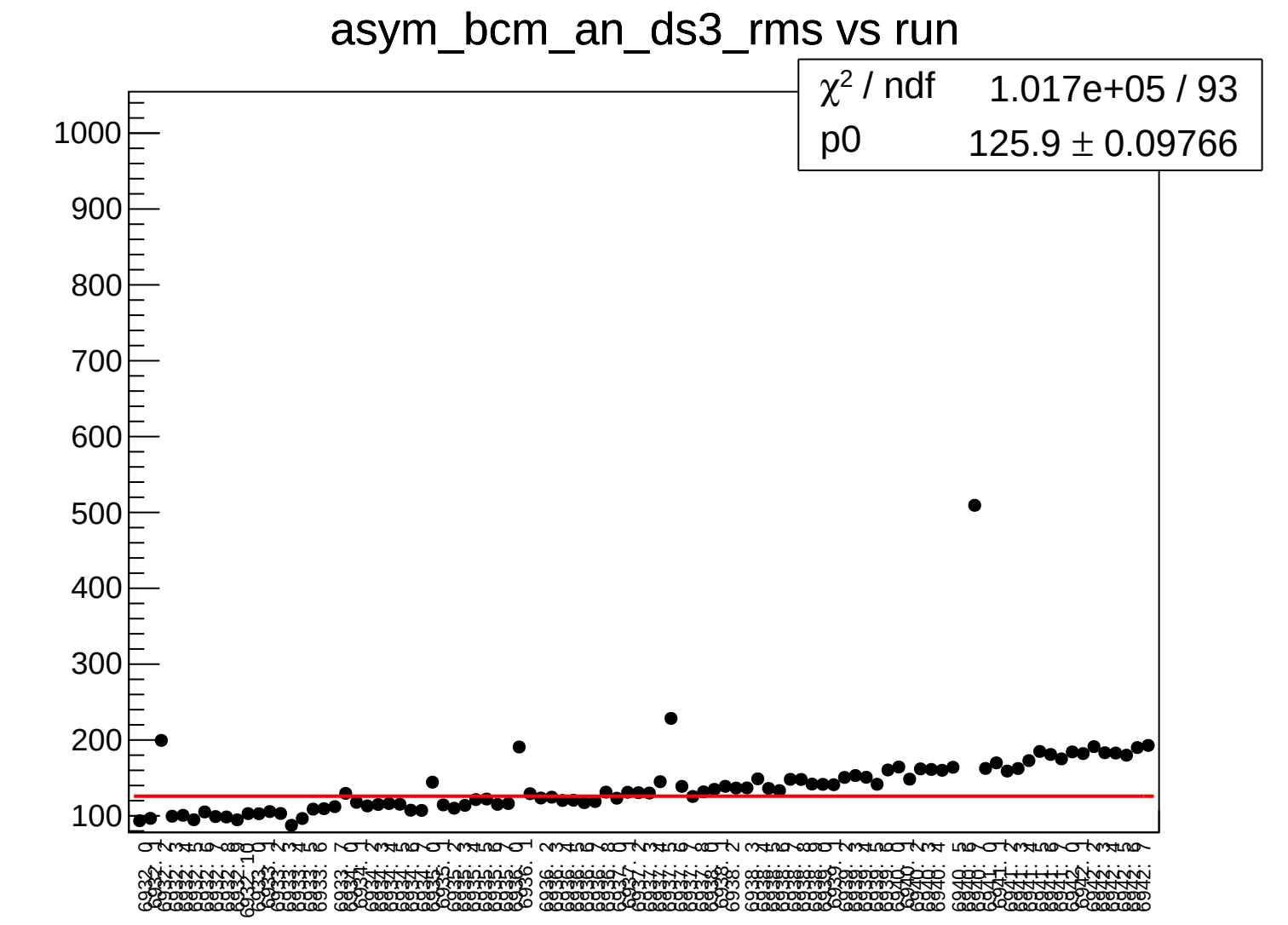

asym_bcm_an_ds_mean vs run
χ² / ndf 15 / 93
p0 −127 ± 137.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 231.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

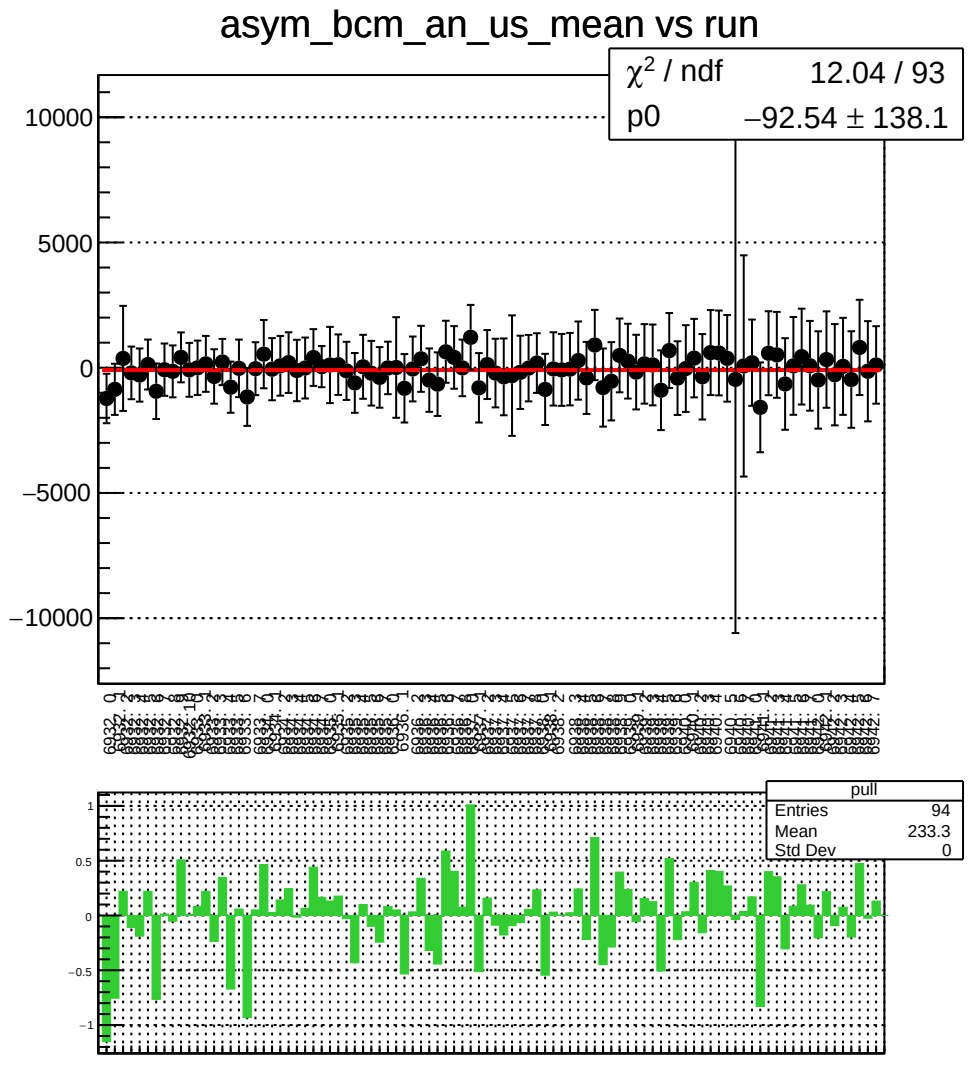

pull1D
Entries 94
Mean 0.01015
Std Dev 0.3994
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

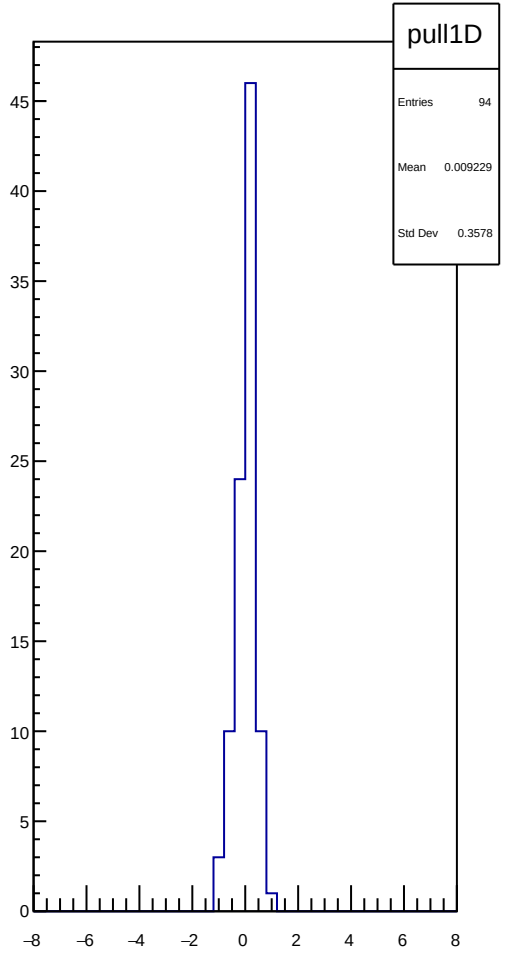

asym_bcm_an_ds_rms vs run
χ² / ndf 1.011e+05 / 93
p0 125.7 ± 0.09746
1000
900
800
700
600
500
400
300
200
100

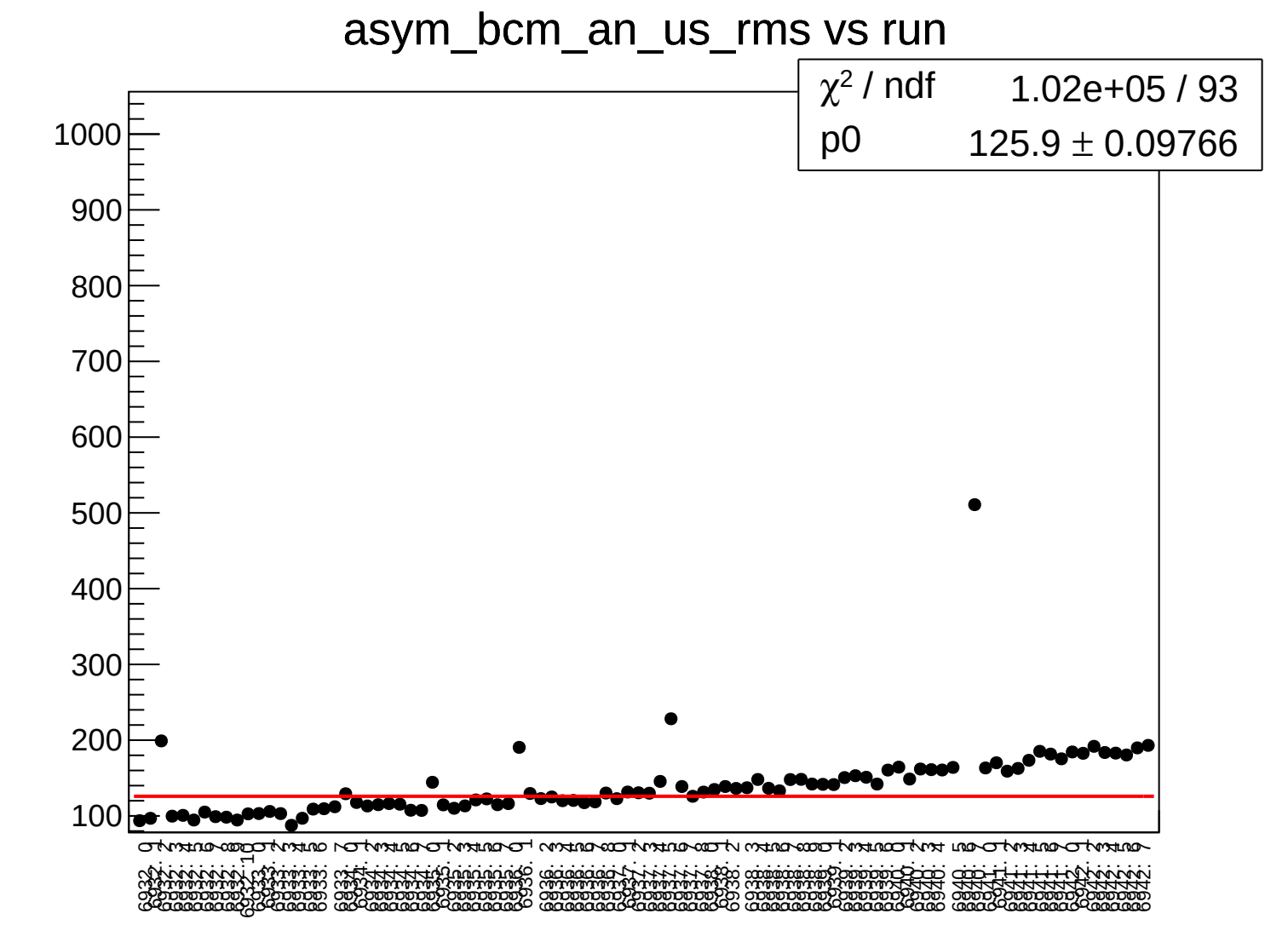

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.15 / 93
p0 −116.1 ± 138.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 243.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

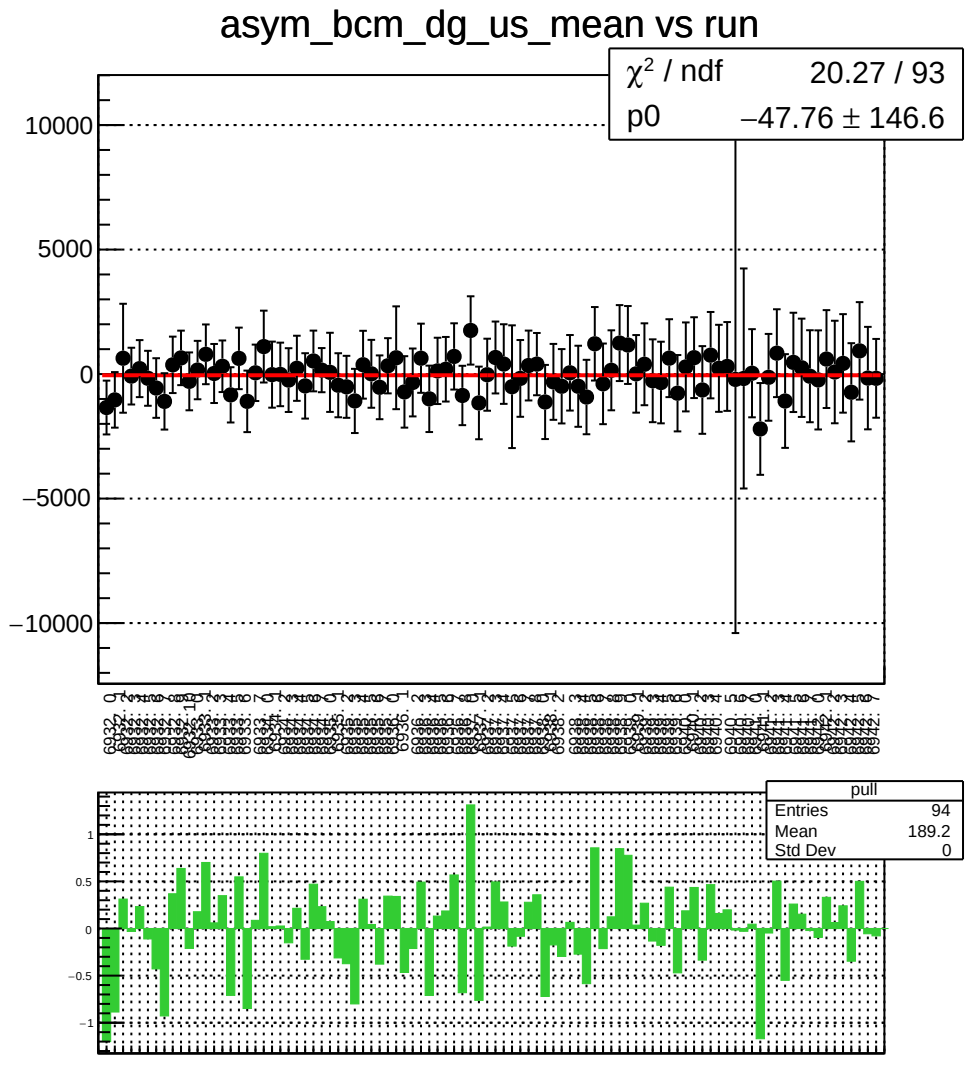

pull1D
Entries 94
Mean 0.01098
Std Dev 0.4013
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

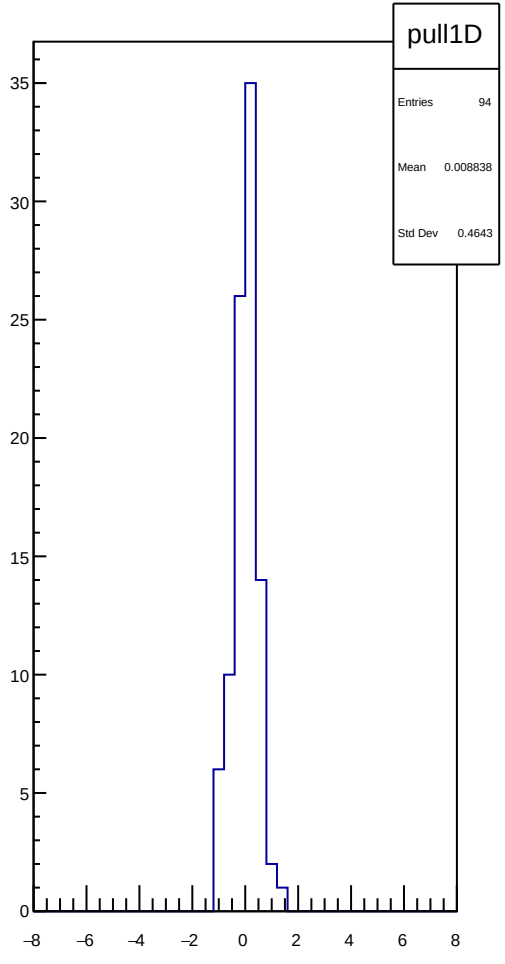

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.017e+05 / 93
p0 125.9 ± 0.09766
1000
900
800
700
600
500
400
300
200
100

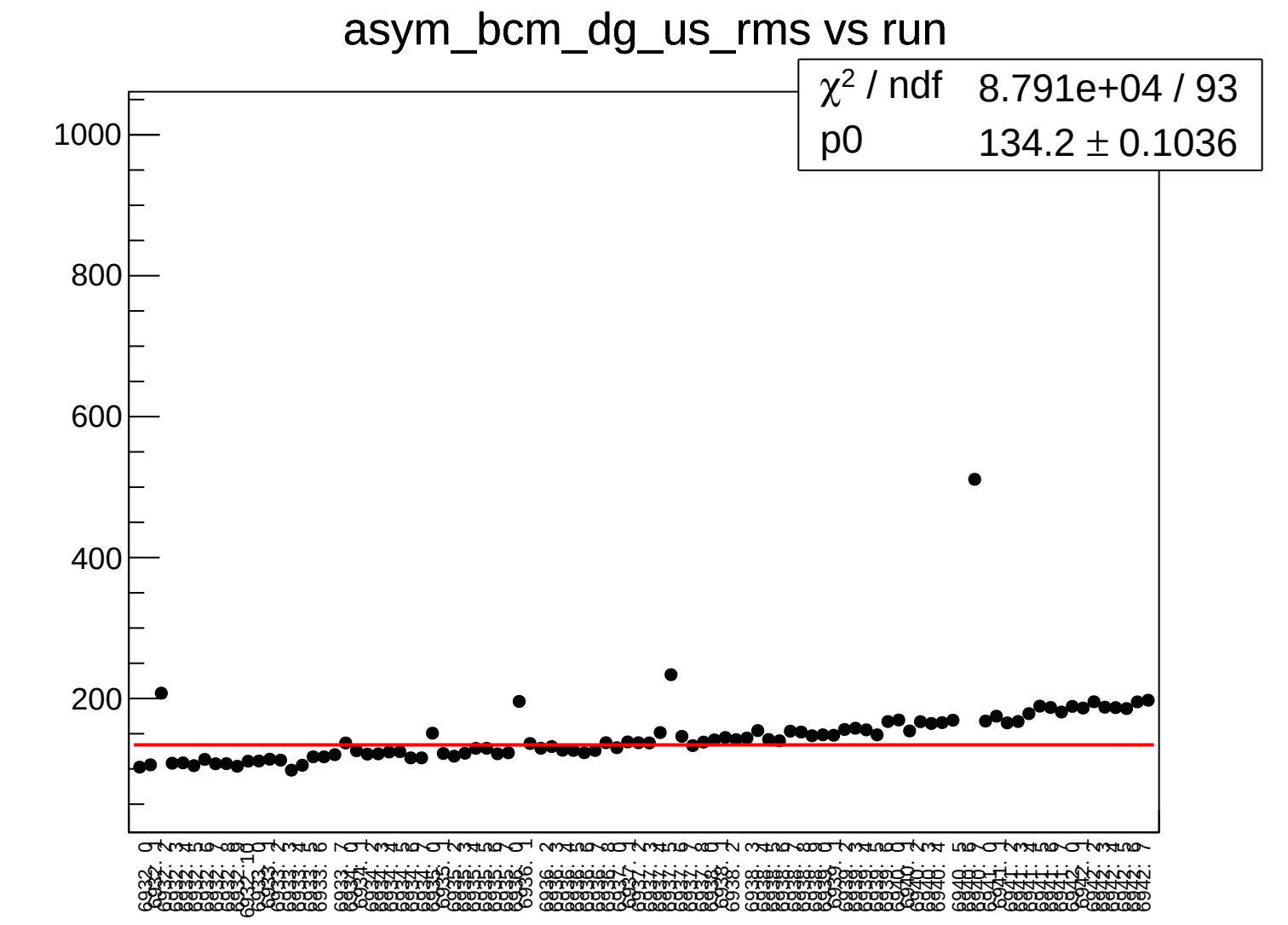

asym_bcm_an_us_mean vs run
χ² / ndf 12.04 / 93
p0 −92.54 ± 138.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 233.3
Std Dev 0
1
0.5
0
−0.5
−1

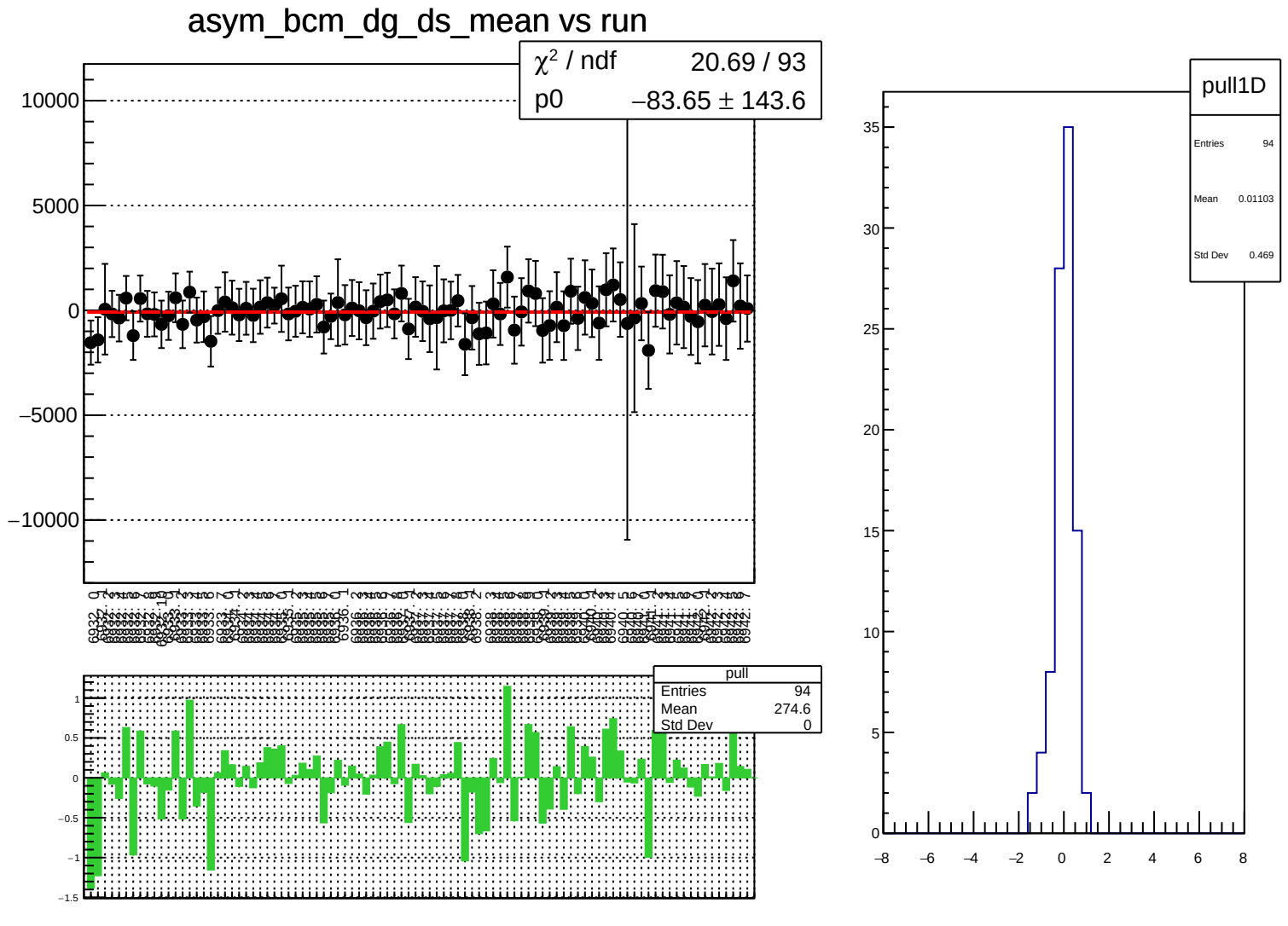

pull1D
Entries 94
Mean 0.009229
Std Dev 0.3578
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

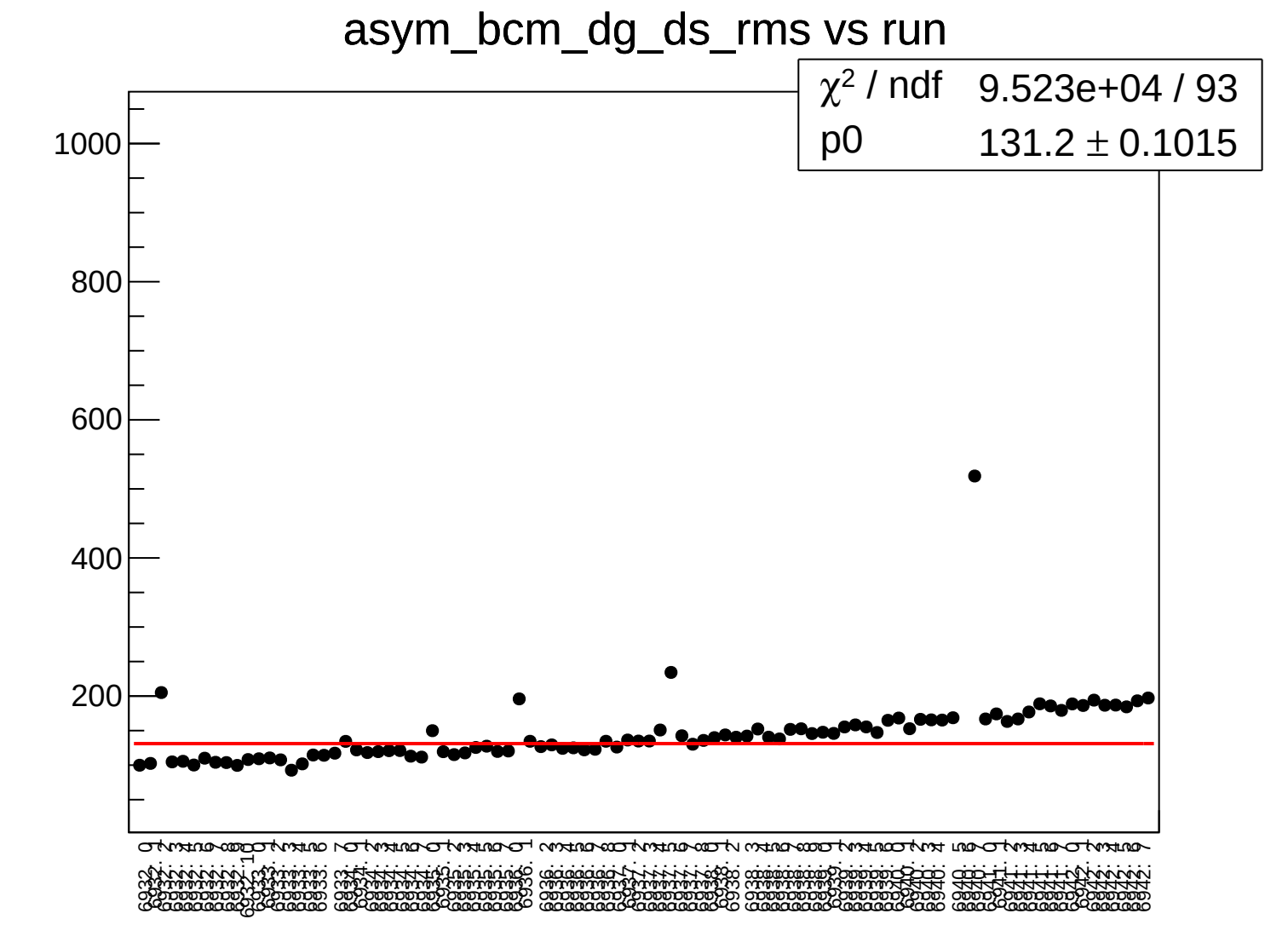

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.02e+05 / 93
p0 125.9 ± 0.09766
1000
900
800
700
600
500
400
300
200
100

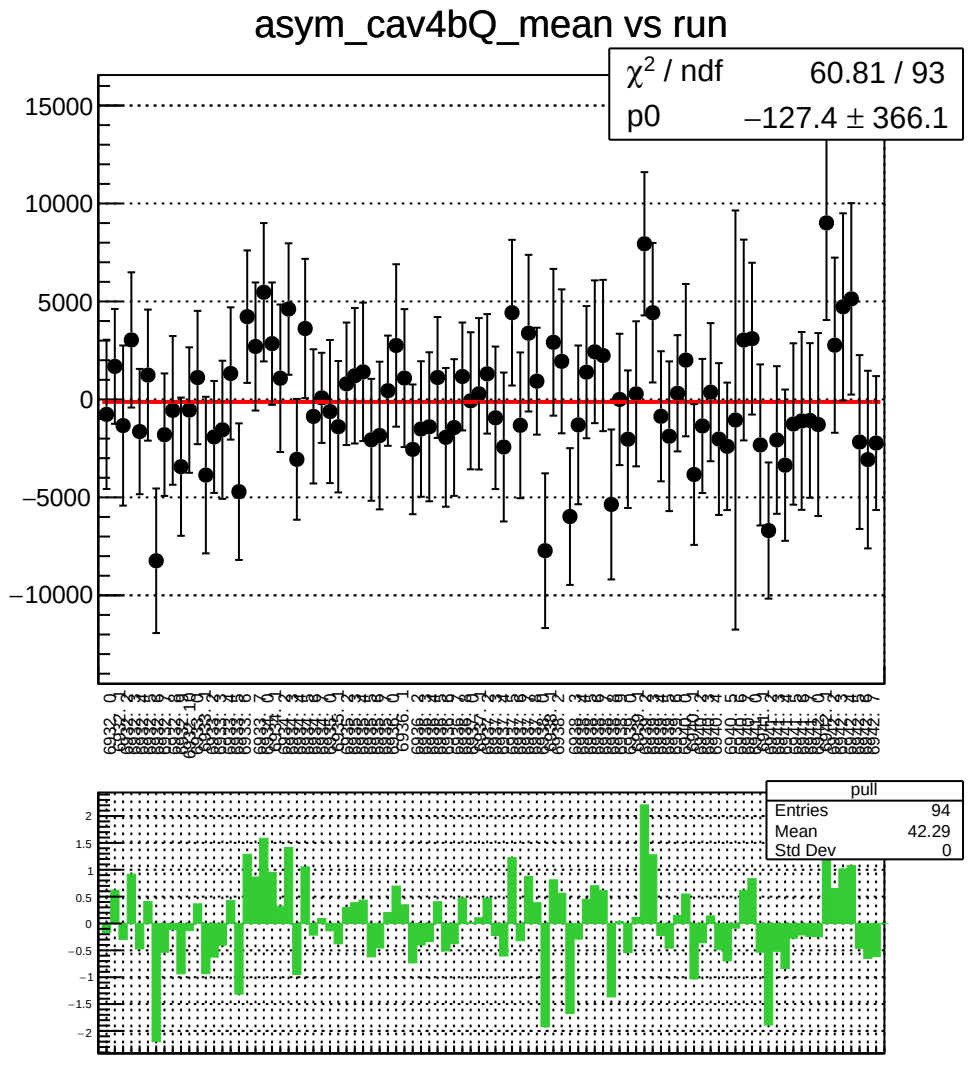

asym_bcm_dg_us_mean vs run
χ² / ndf 20.27 / 93
p0 −47.76 ± 146.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 189.2
Std Dev 0
1
0.5
0
−0.5
−1

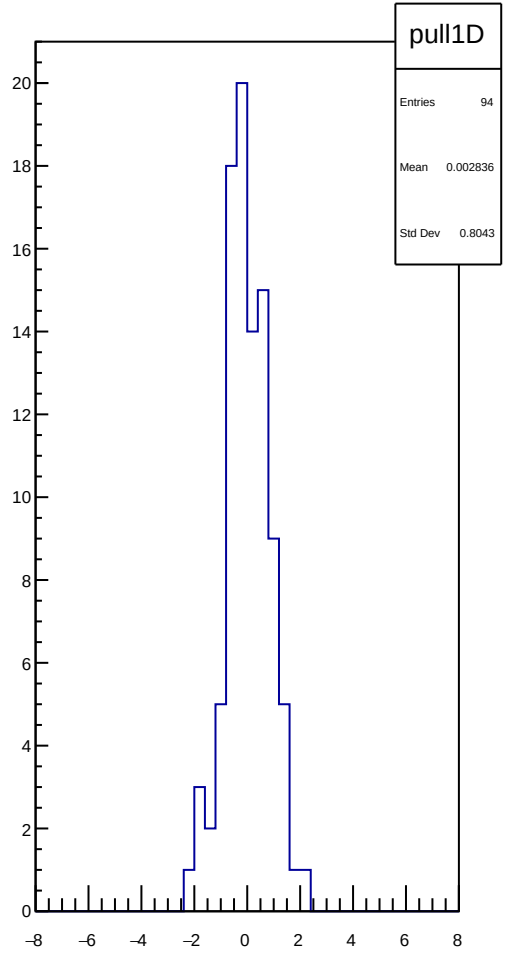

pull1D
Entries 94
Mean 0.008838
Std Dev 0.4643
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

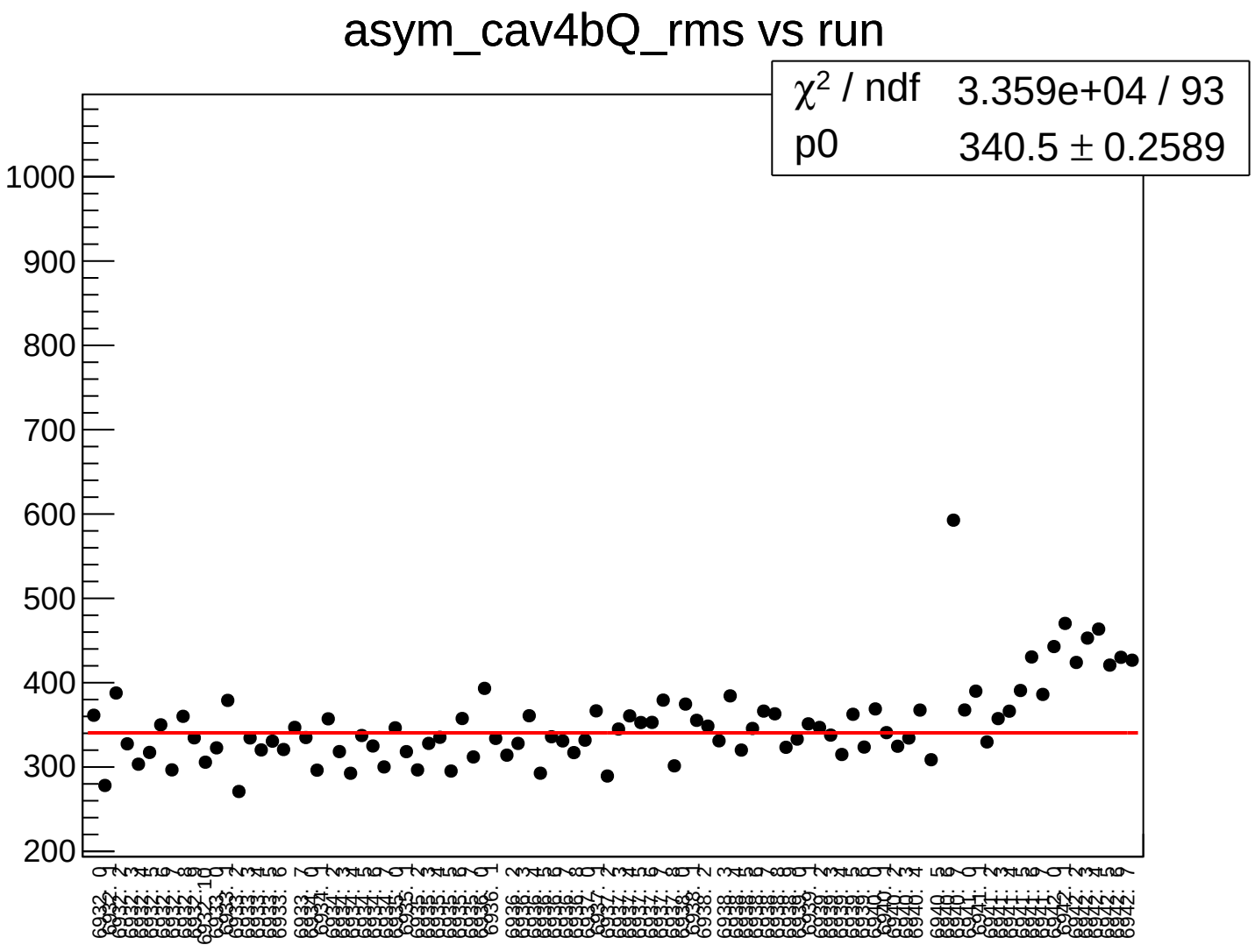

asym_bcm_dg_us_rms vs run
χ² / ndf 8.791e+04 / 93
p0 134.2 ± 0.1036
1000
800
600
400
200

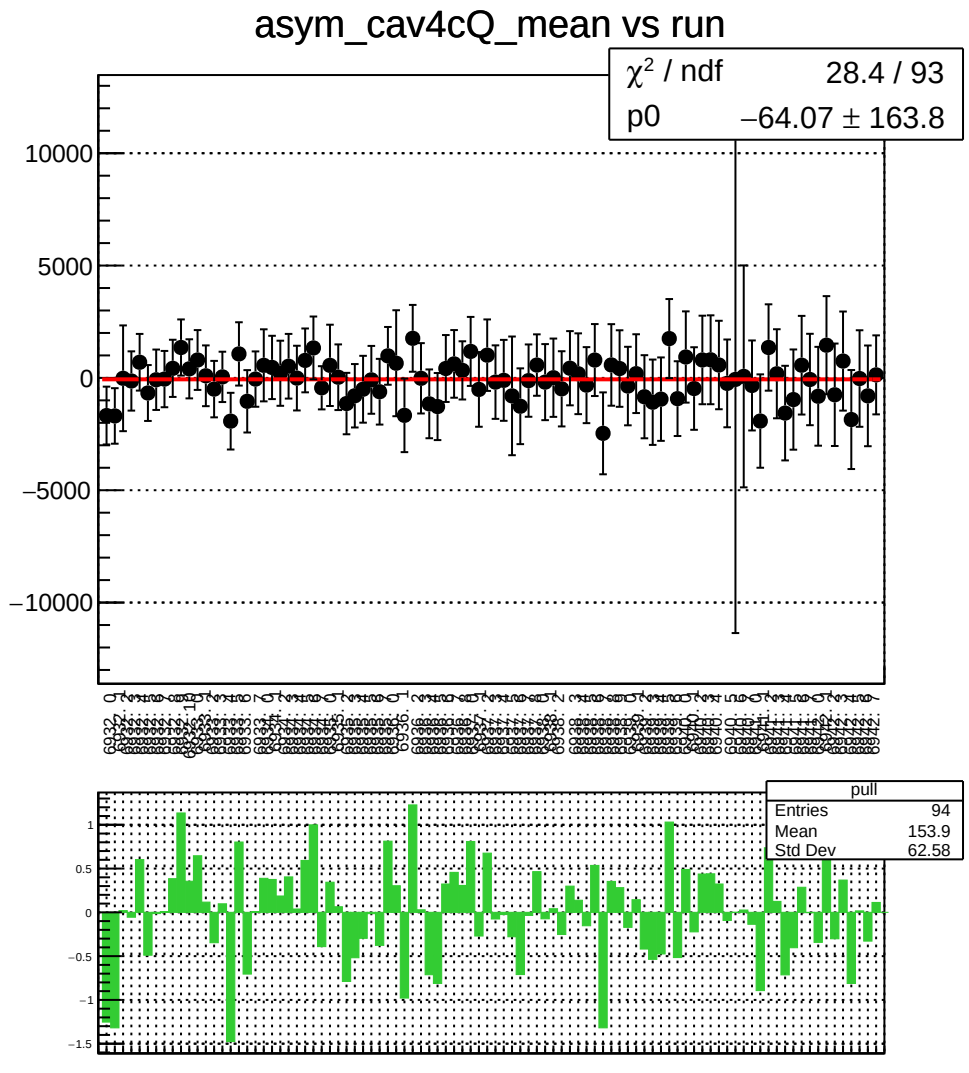

asym_bcm_dg_ds_mean vs run
χ² / ndf 20.69 / 93
p0 −83.65 ± 143.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 274.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01103
Std Dev 0.469
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

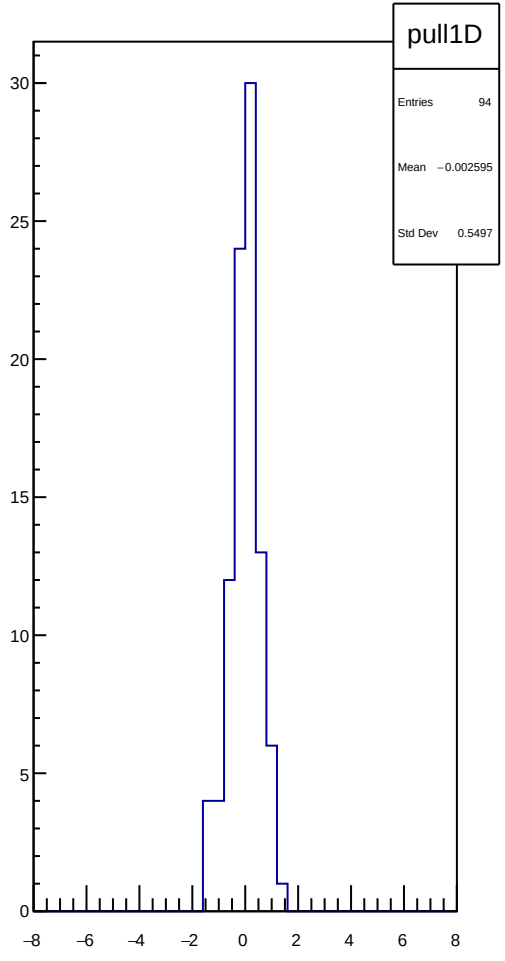

asym_bcm_dg_ds_rms vs run
χ² / ndf 9.523e+04 / 93
p0 131.2 ± 0.1015
1000
800
600
400
200

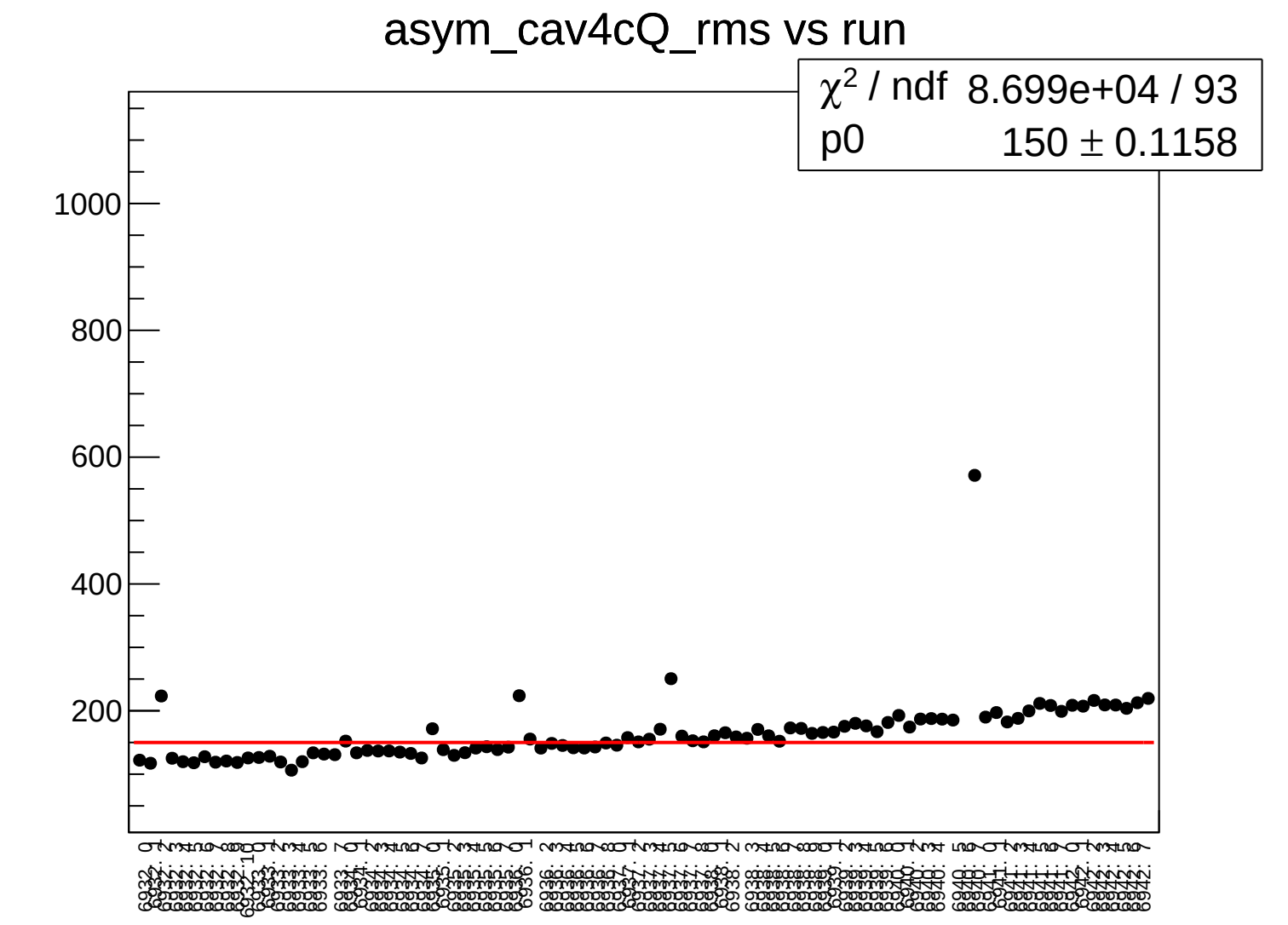

asym_cav4bQ_mean vs run
χ² / ndf 60.81 / 93
p0 −127.4 ± 366.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 42.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

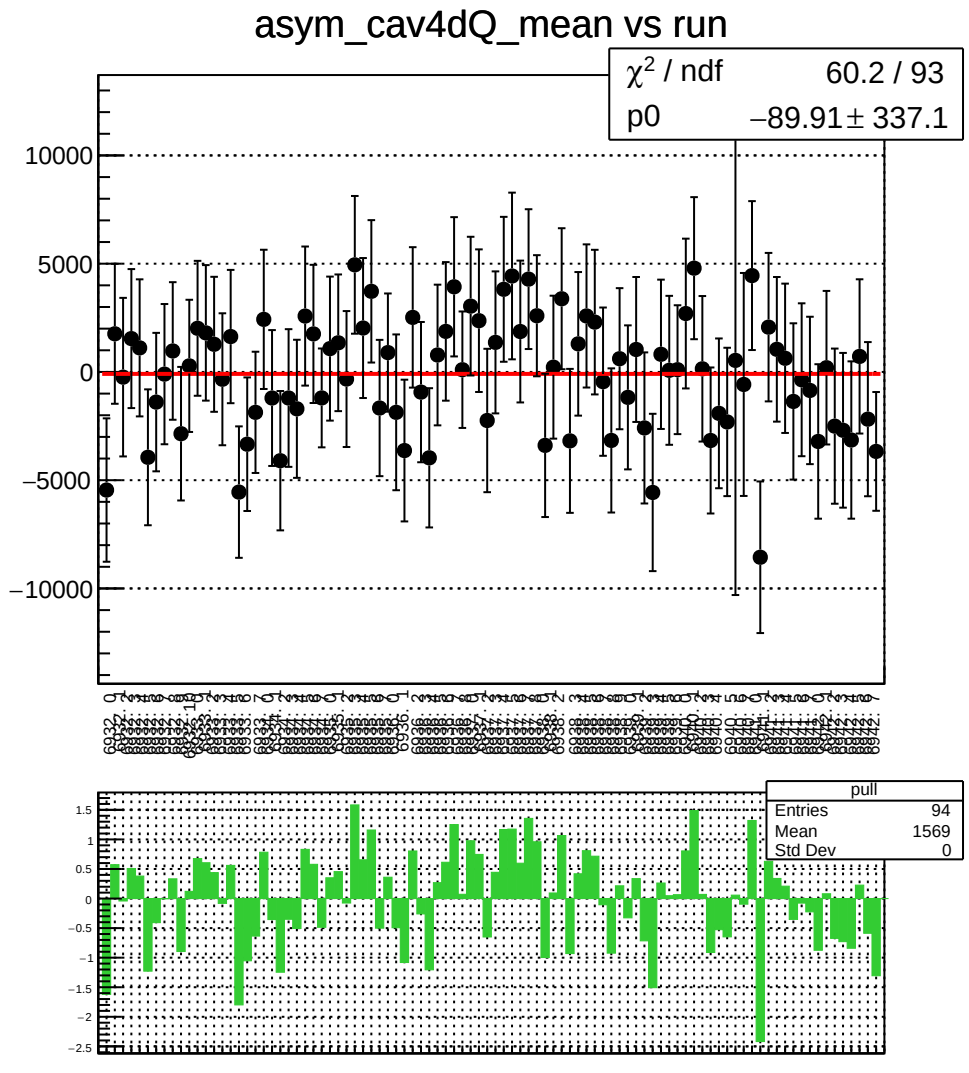

pull1D
Entries 94
Mean 0.002836
Std Dev 0.8043
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

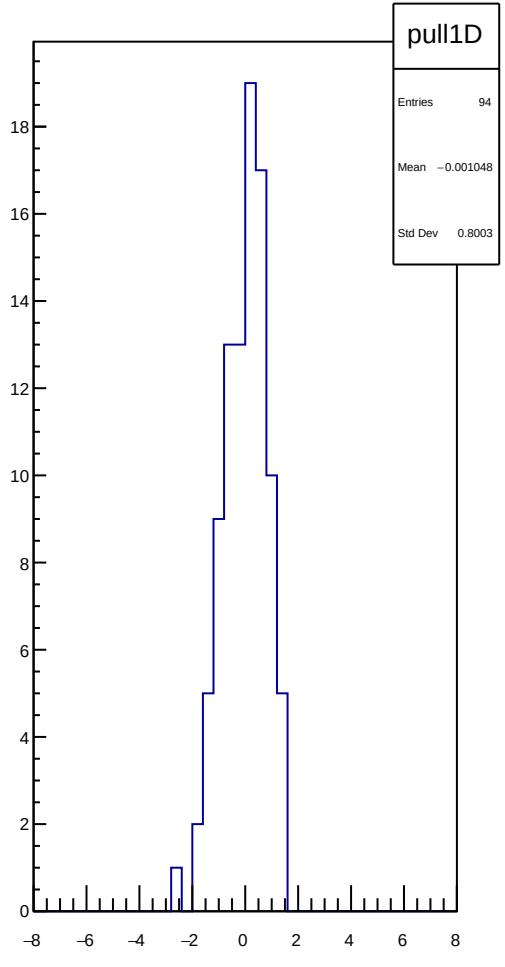

asym_cav4bQ_rms vs run
χ² / ndf 3.359e+04 / 93
p0 340.5 ± 0.2589
1000
900
800
700
600
500
400
300
200

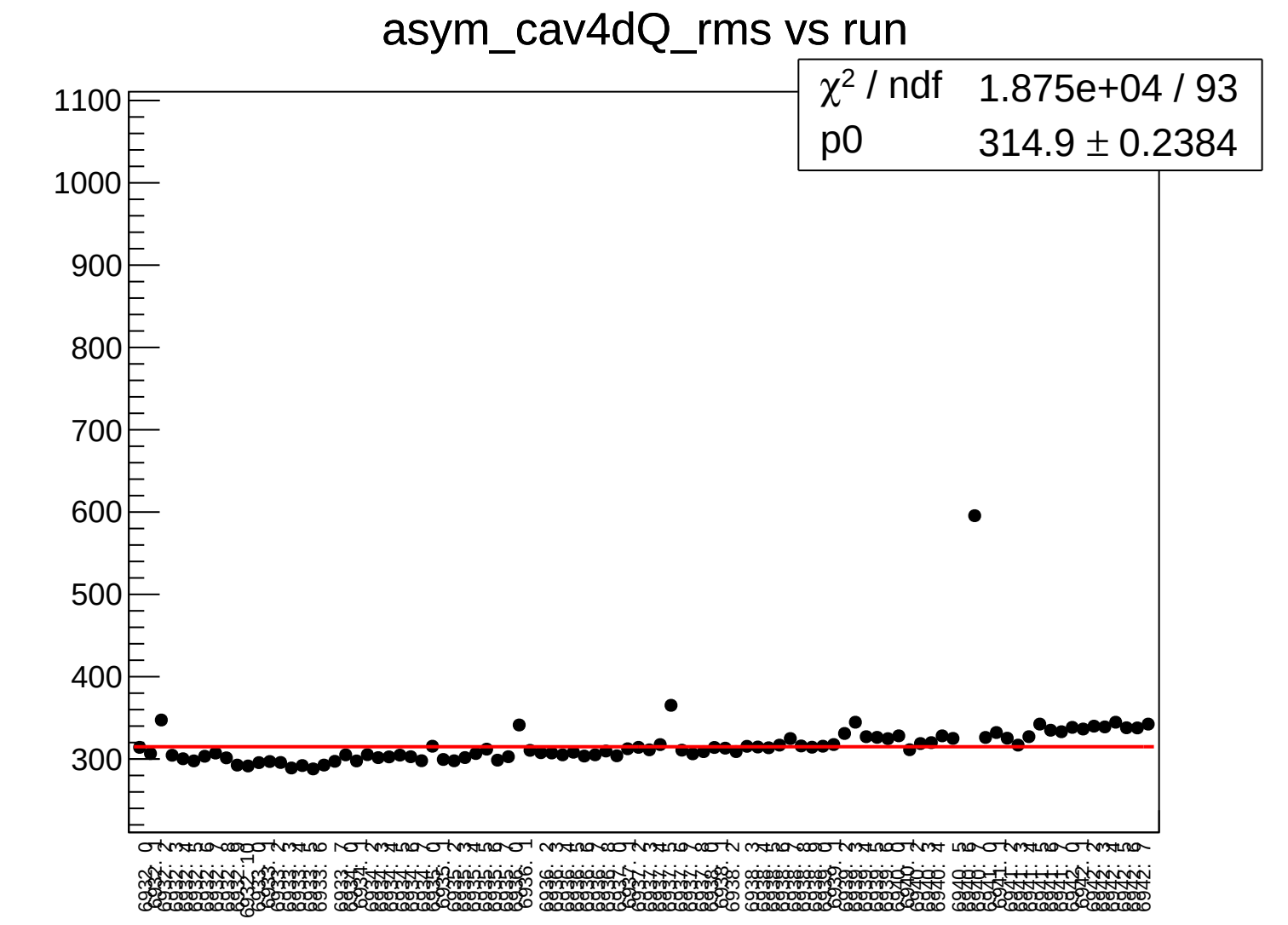

asym_cav4cQ_mean vs run
χ² / ndf 28.4 / 93
p0 −64.07 ± 163.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 153.9
Std Dev 62.58
1
0.5
0
−0.5
−1
−1.5

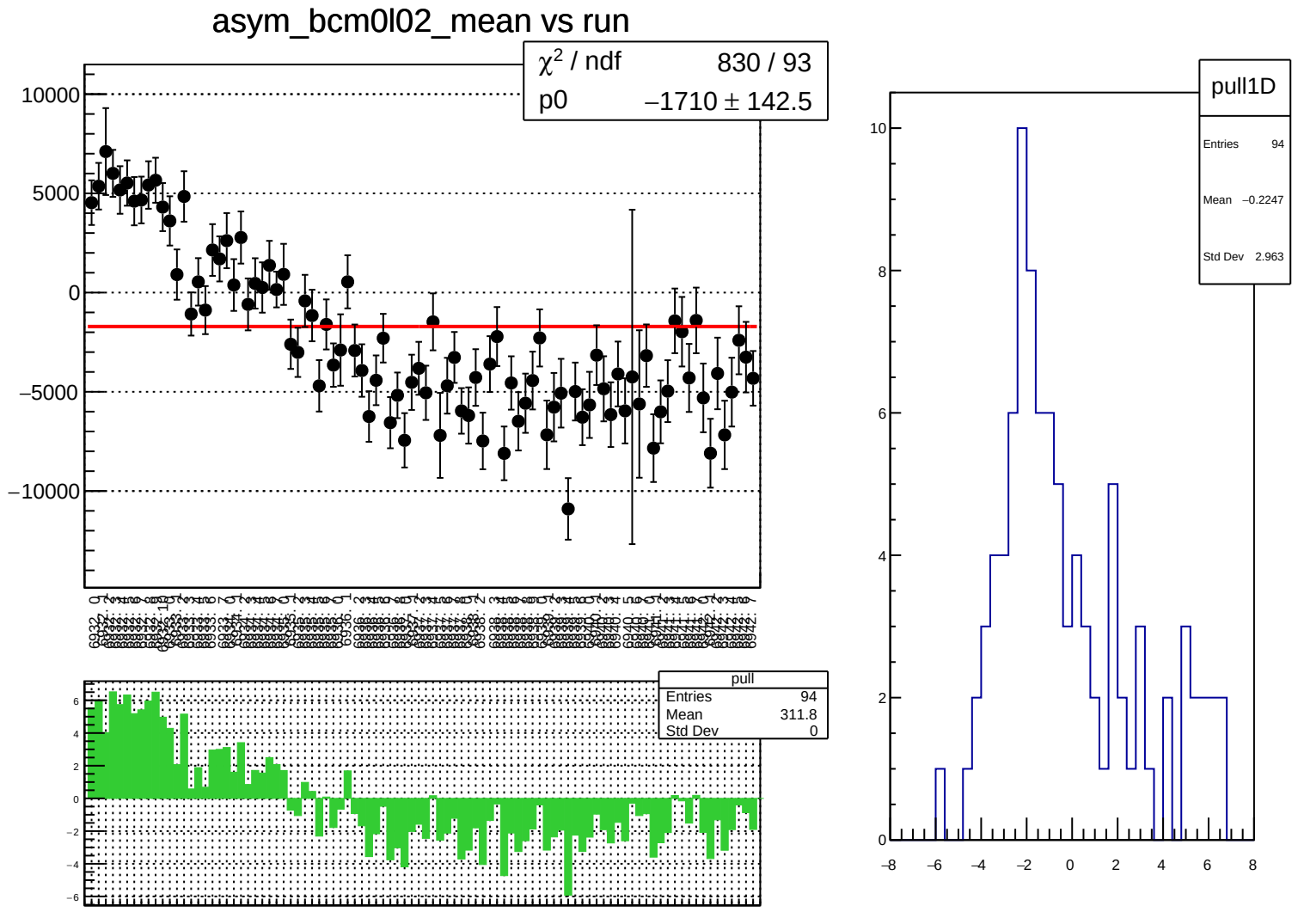

pull1D
Entries 94
Mean −0.002595
Std Dev 0.5497
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

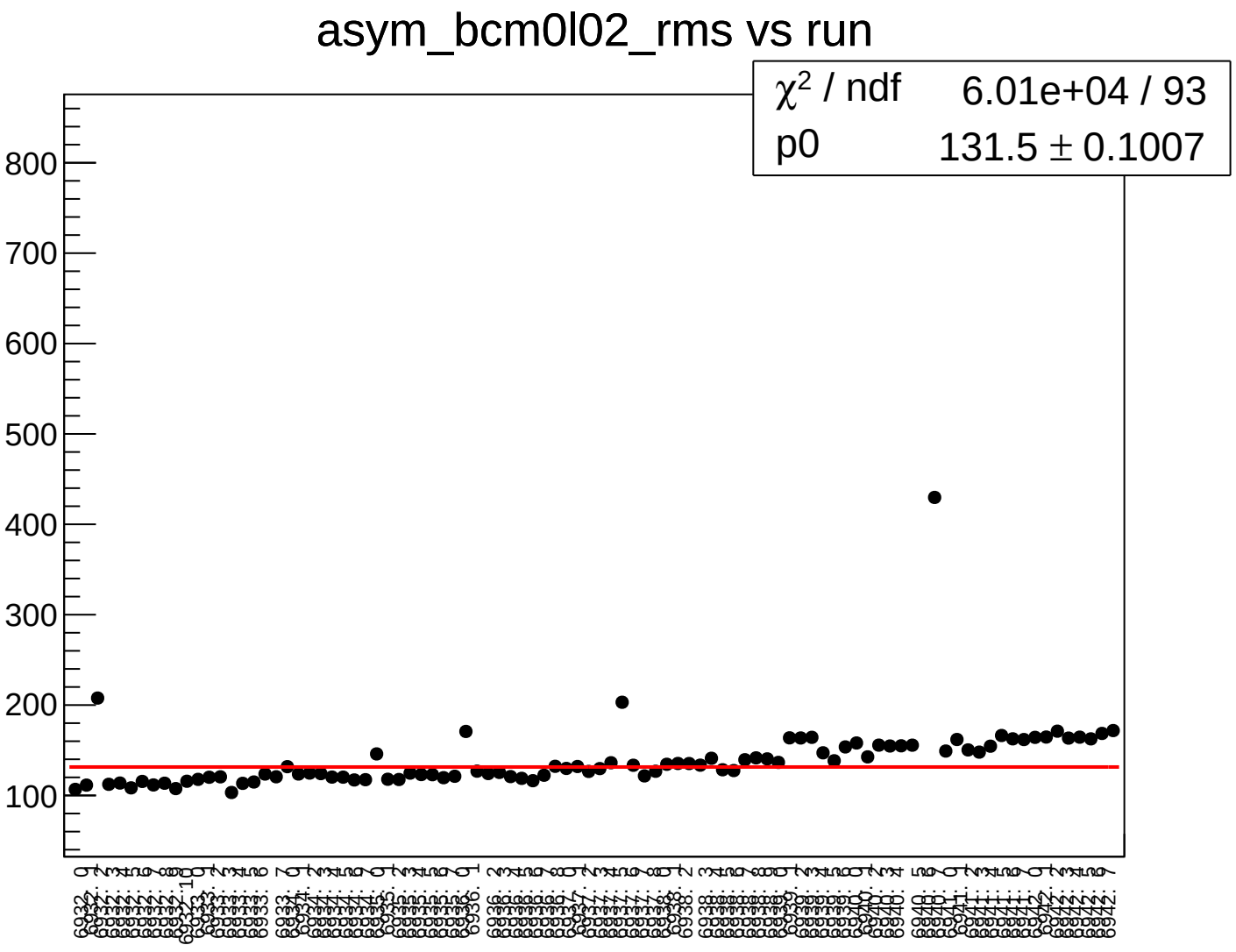

asym_cav4cQ_rms vs run
χ² / ndf 8.699e+04 / 93
p0 150 ± 0.1158
1000
800
600
400
200

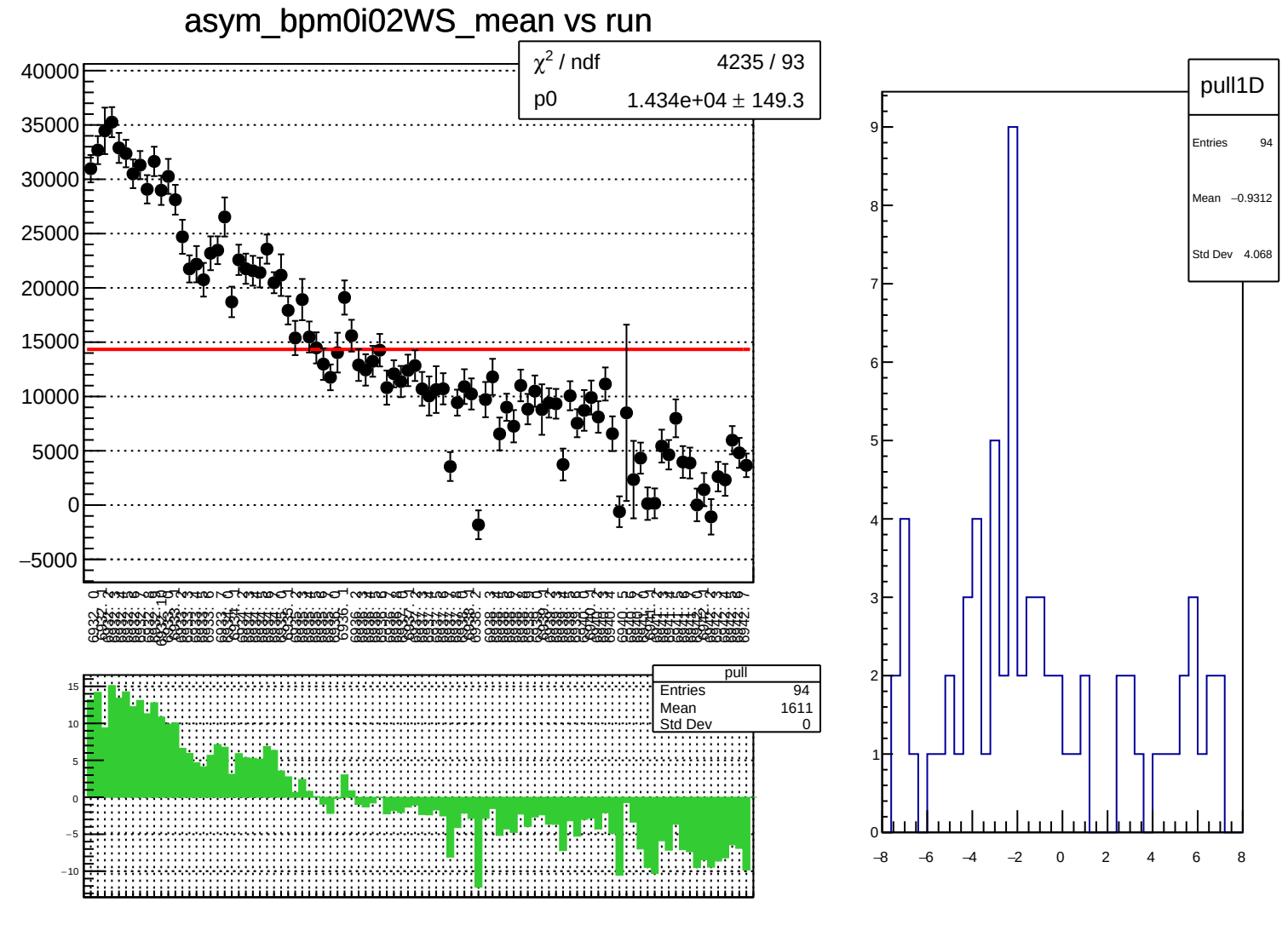

asym_cav4dQ_mean vs run
χ² / ndf 60.2 / 93
p0 −89.91 ± 337.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 1569
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

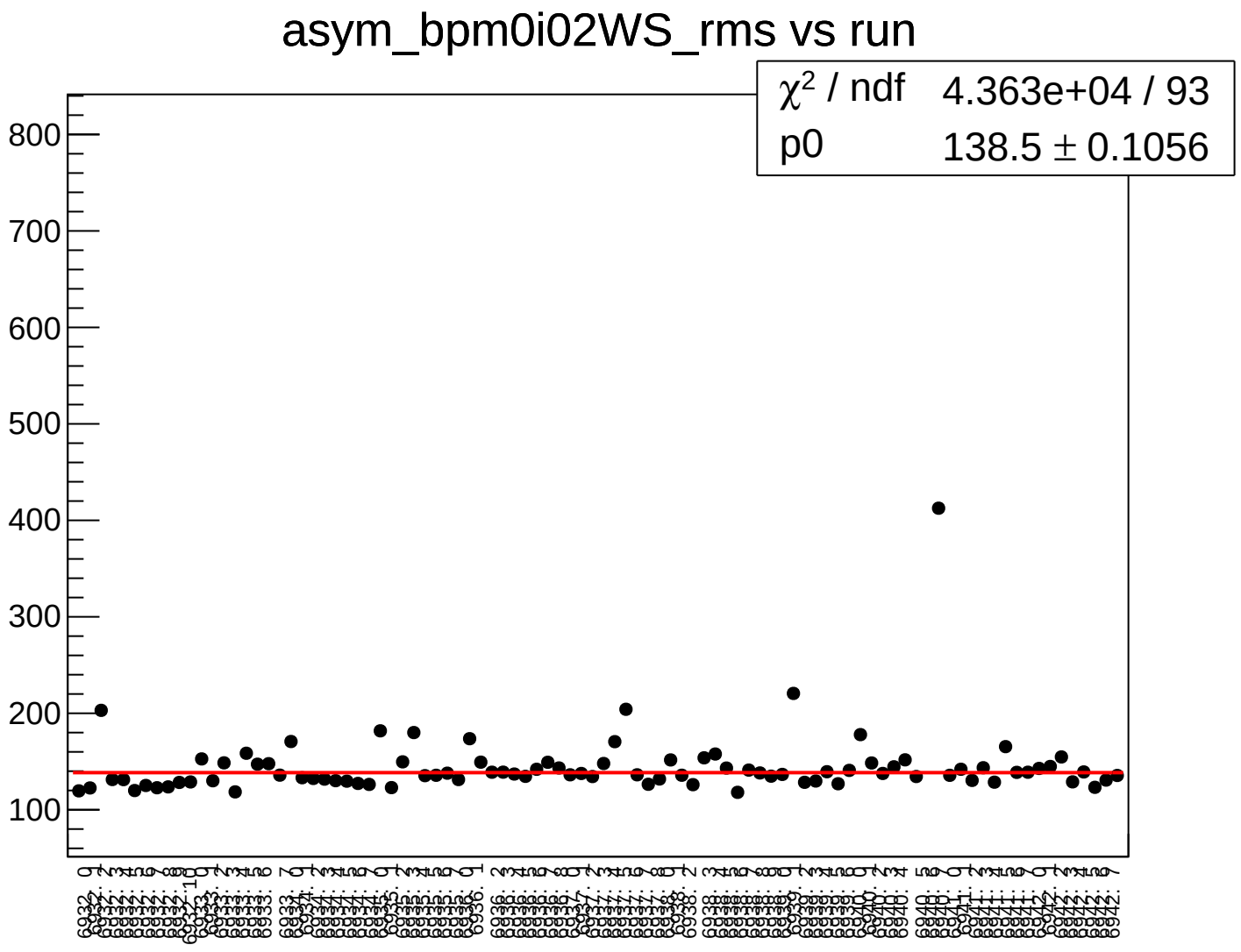

pull1D
Entries 94
Mean −0.001048
Std Dev 0.8003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

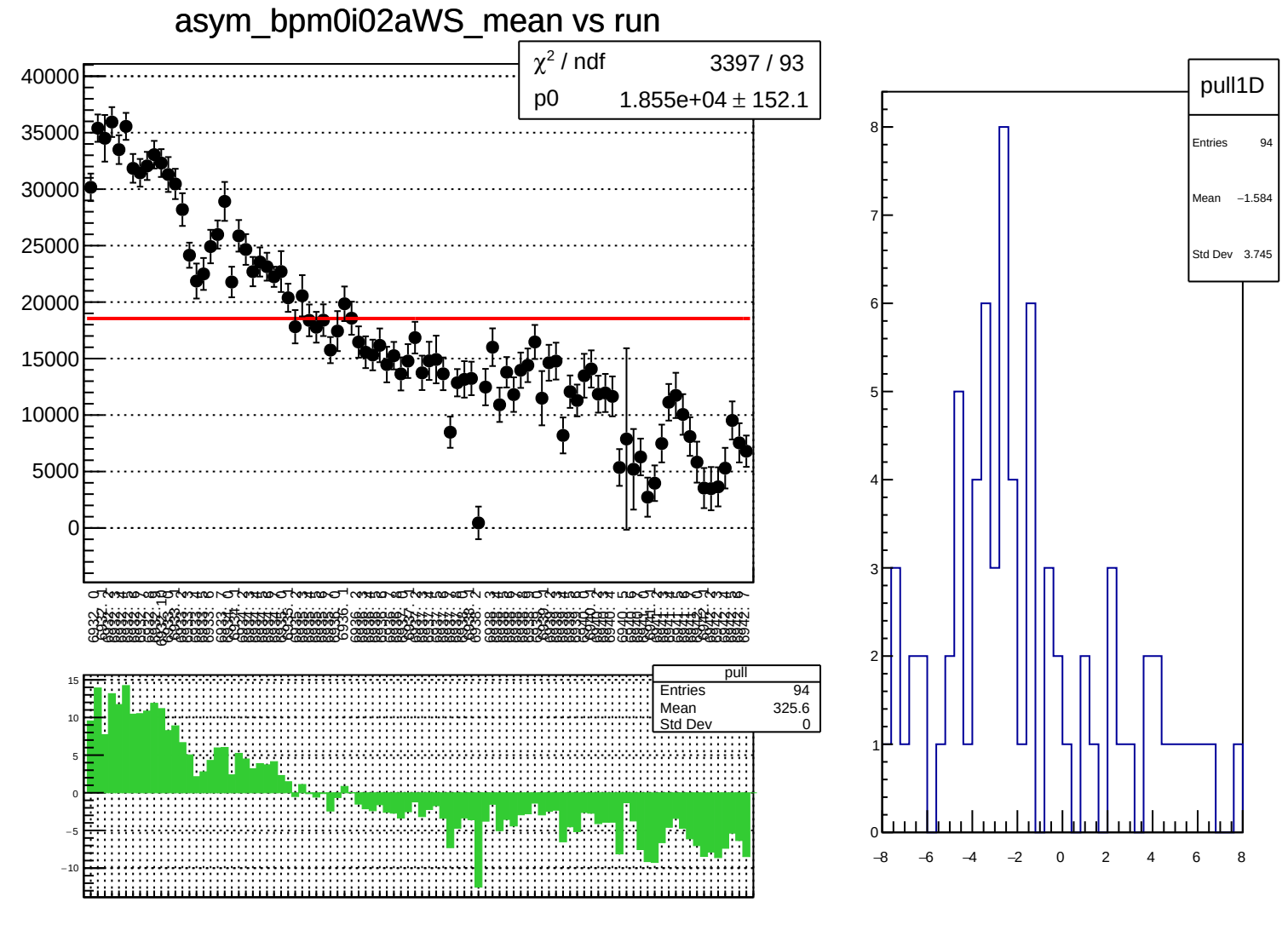

asym_cav4dQ_rms vs run
χ² / ndf 1.875e+04 / 93
p0 314.9 ± 0.2384
1100
1000
900
800
700
600
500
400
300

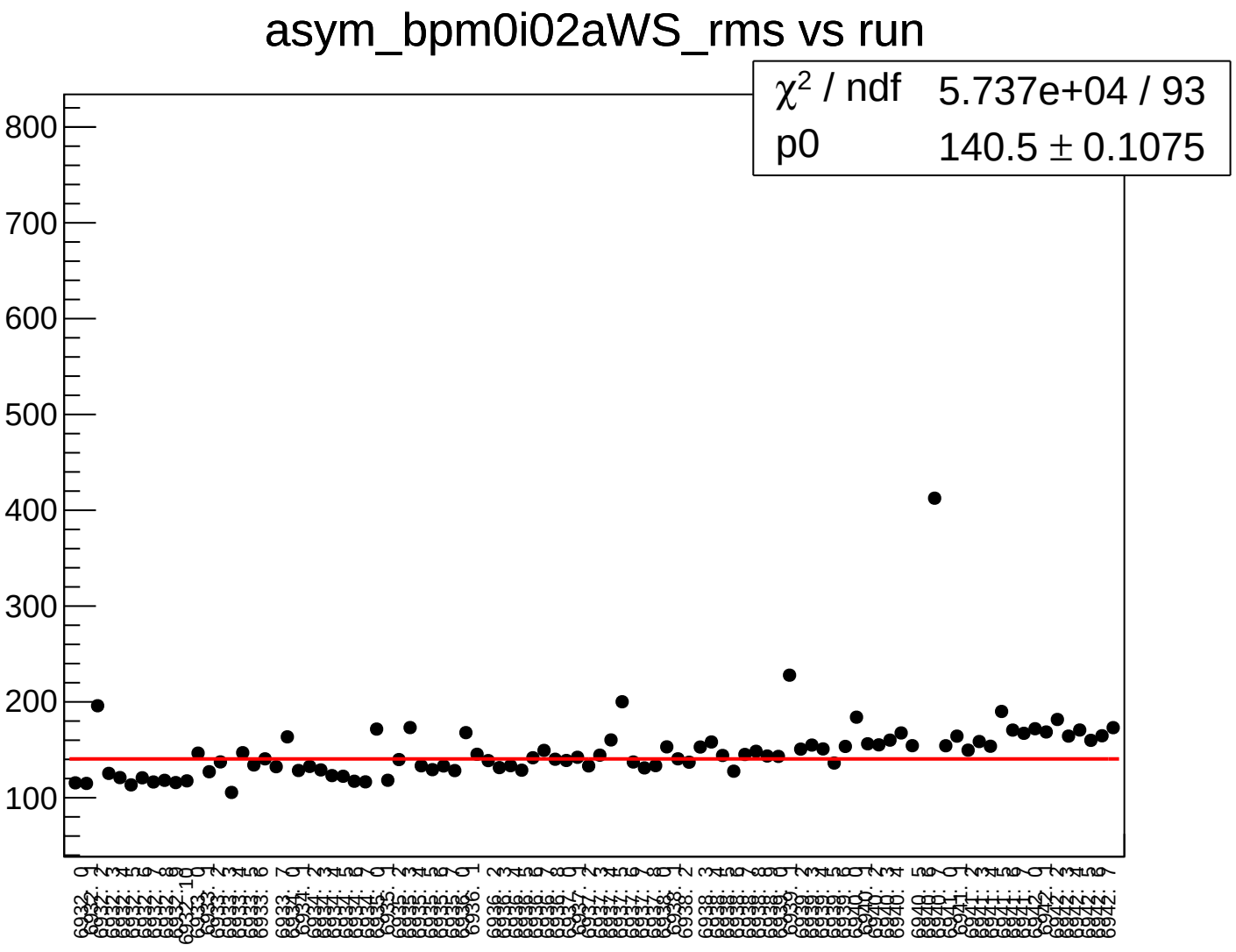

asym_bcm0l02_mean vs run
χ² / ndf 830 / 93
p0 −1710 ± 142.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 311.8
Std Dev 0
pull1D
Entries 94
Mean −0.2247
Std Dev 2.963

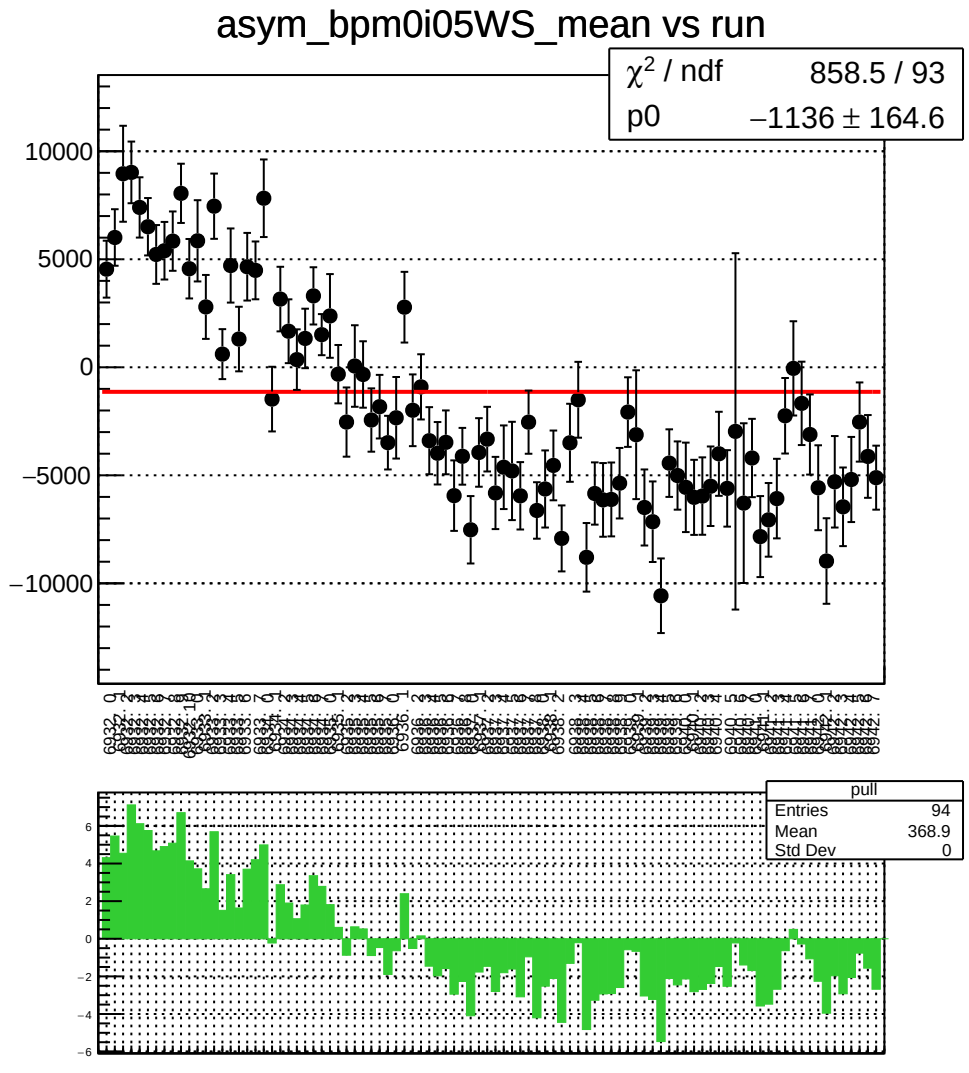

asym_bcm0l02_rms vs run
χ² / ndf 6.01e+04 / 93
p0 131.5 ± 0.1007
800
700
600
500
400
300
200
100

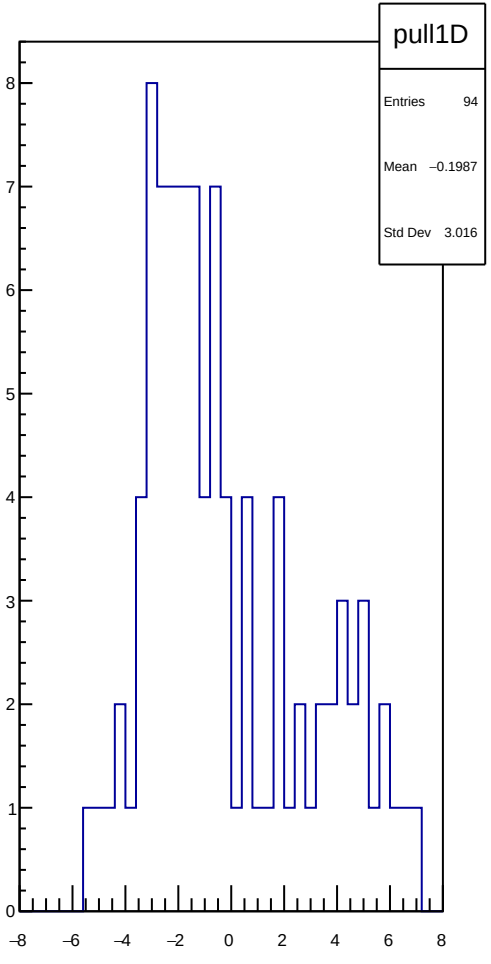

asym_bpm0i02WS_mean vs run
χ² / ndf 4235 / 93
p0 1.434e+04 ± 149.3
pull
Entries 94
Mean 1611
Std Dev 0
pull1D
Entries 94
Mean −0.9312
Std Dev 4.068

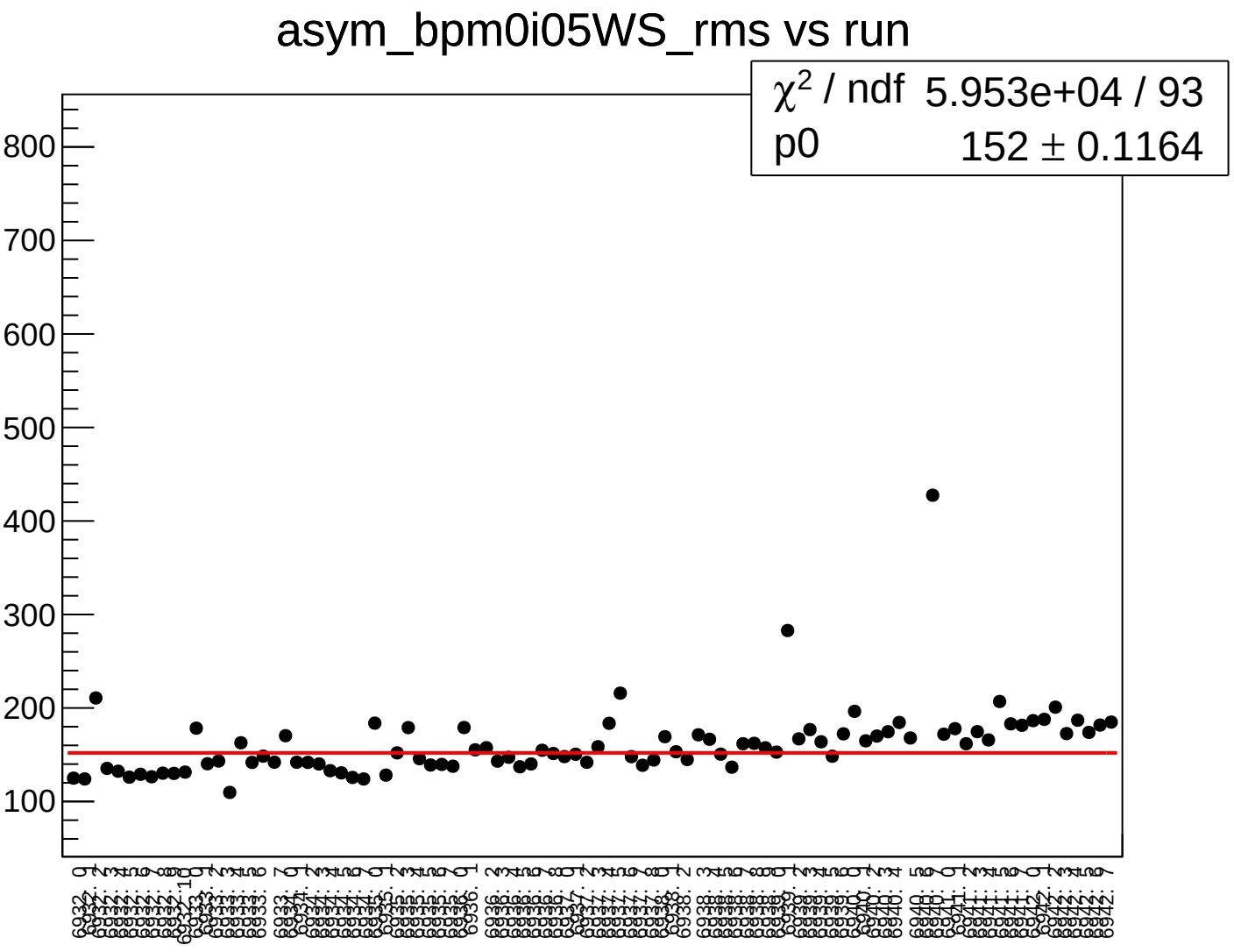

asym_bpm0i02WS_rms vs run
χ^2 / ndf 4.363e+04 / 93
p0 138.5 ± 0.1056
800
700
600
500
400
300
200
100

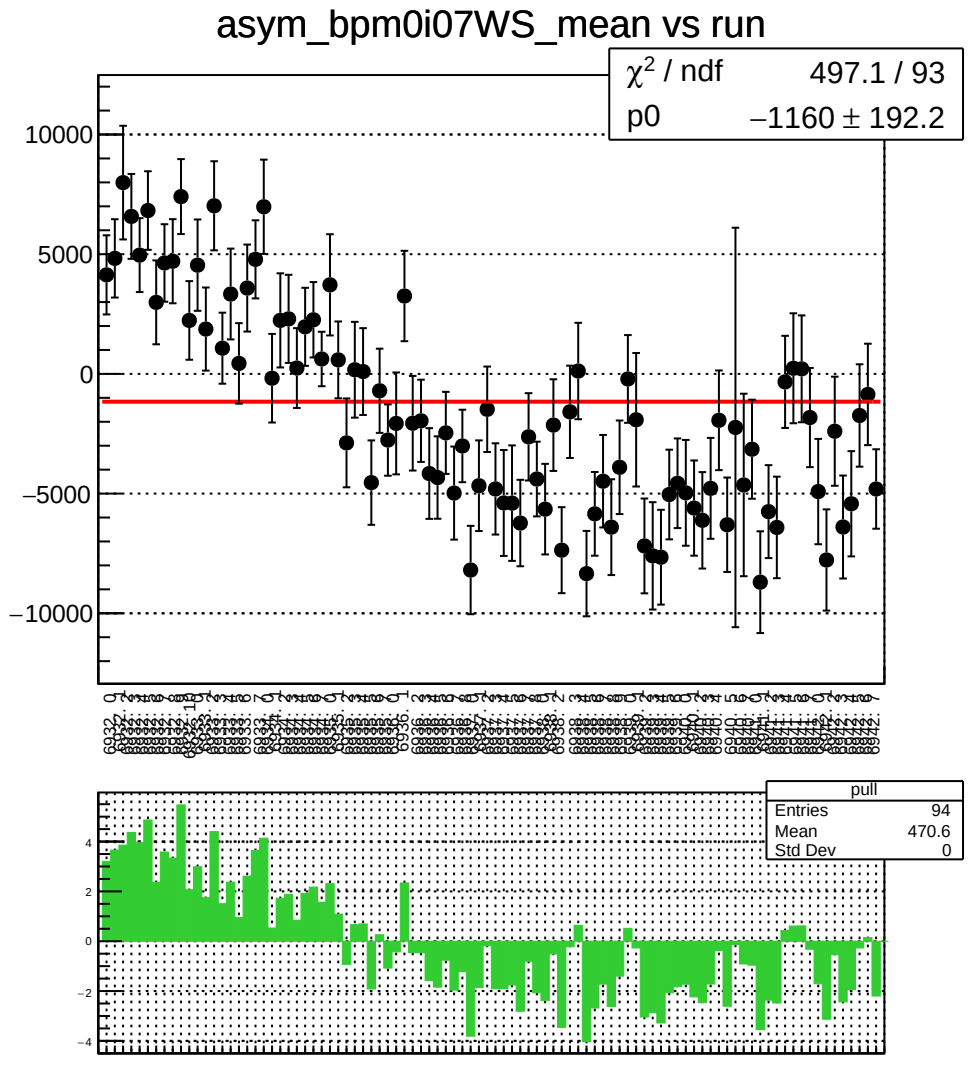

asym_bpm0i02aWS_mean vs run
χ² / ndf 3397 / 93
p0 1.855e+04 ± 152.1
pull
Entries 94
Mean 325.6
Std Dev 0
pull1D
Entries 94
Mean −1.584
Std Dev 3.745

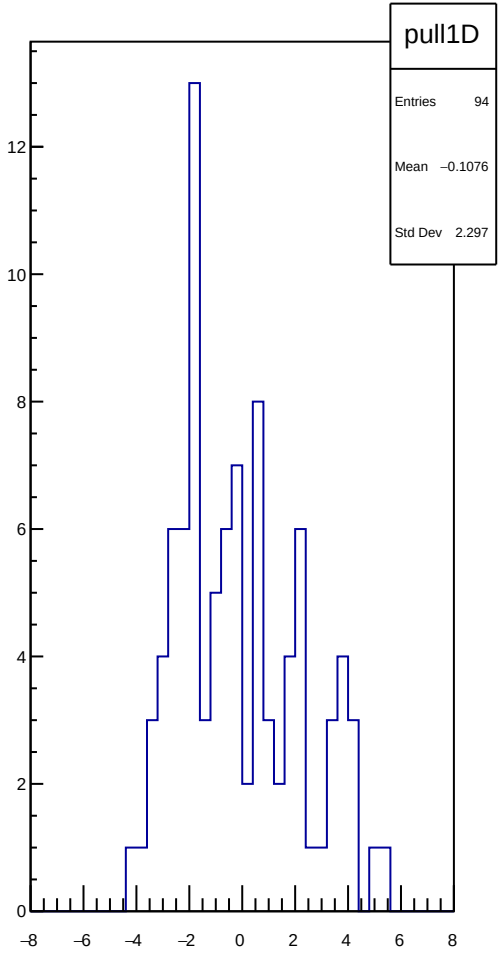

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5.737e+04 / 93
p0 140.5 ± 0.1075
800
700
600
500
400
300
200
100

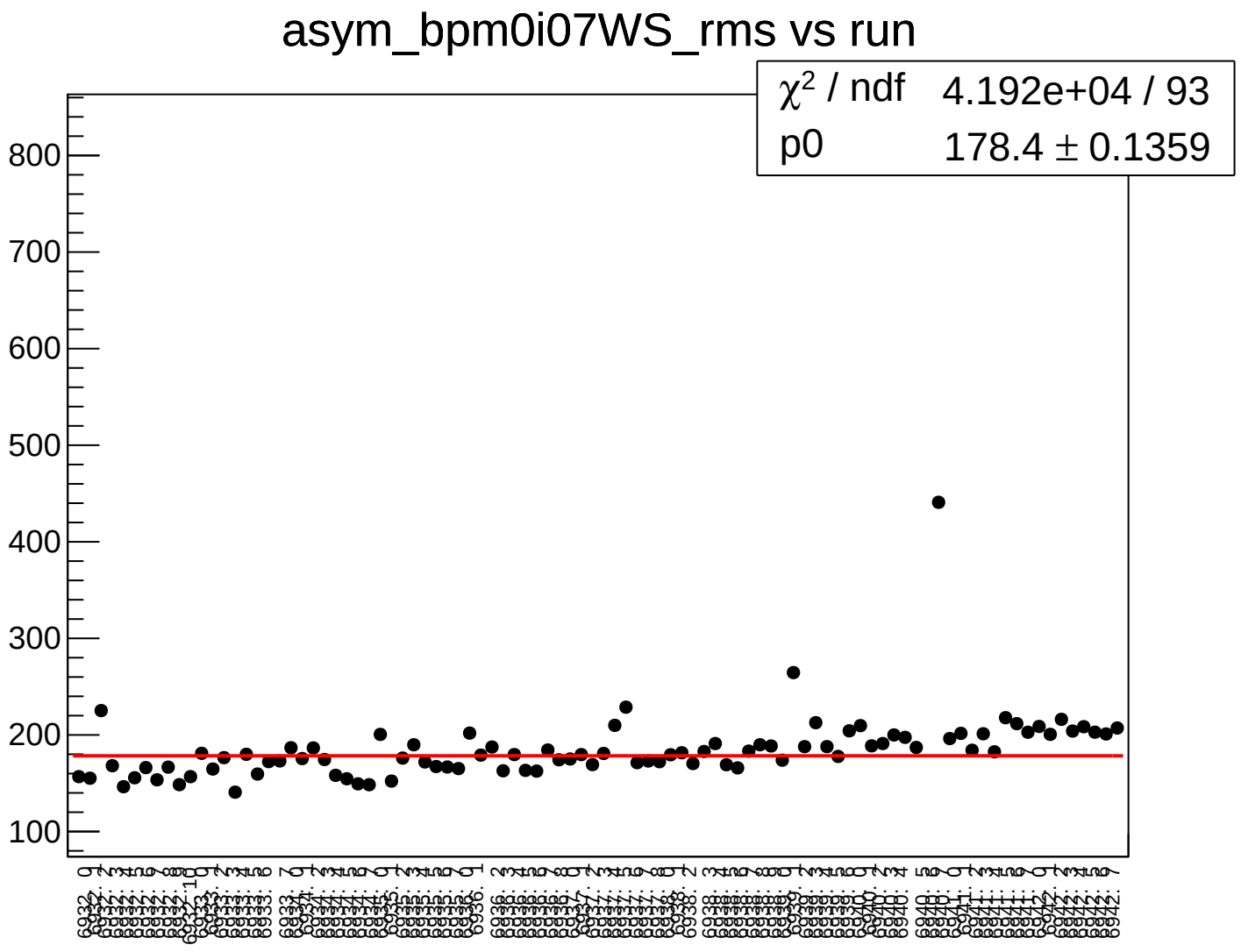

asym_bpm0i05WS_mean vs run
χ² / ndf 858.5 / 93
p0 −1136 ± 164.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 368.9
Std Dev 0
6
4
2
0
−2
−4
−6

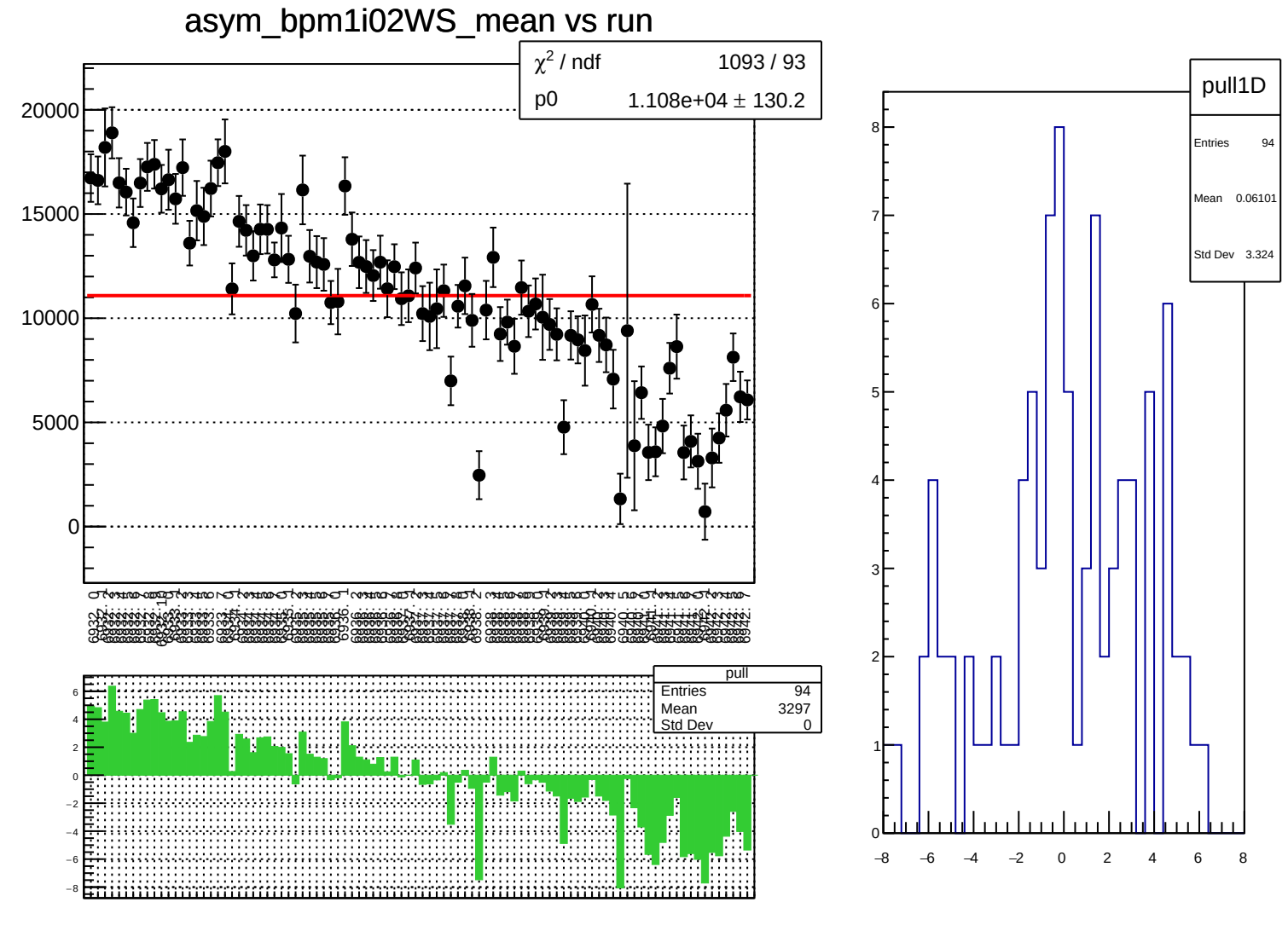

pull1D
Entries 94
Mean −0.1987
Std Dev 3.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

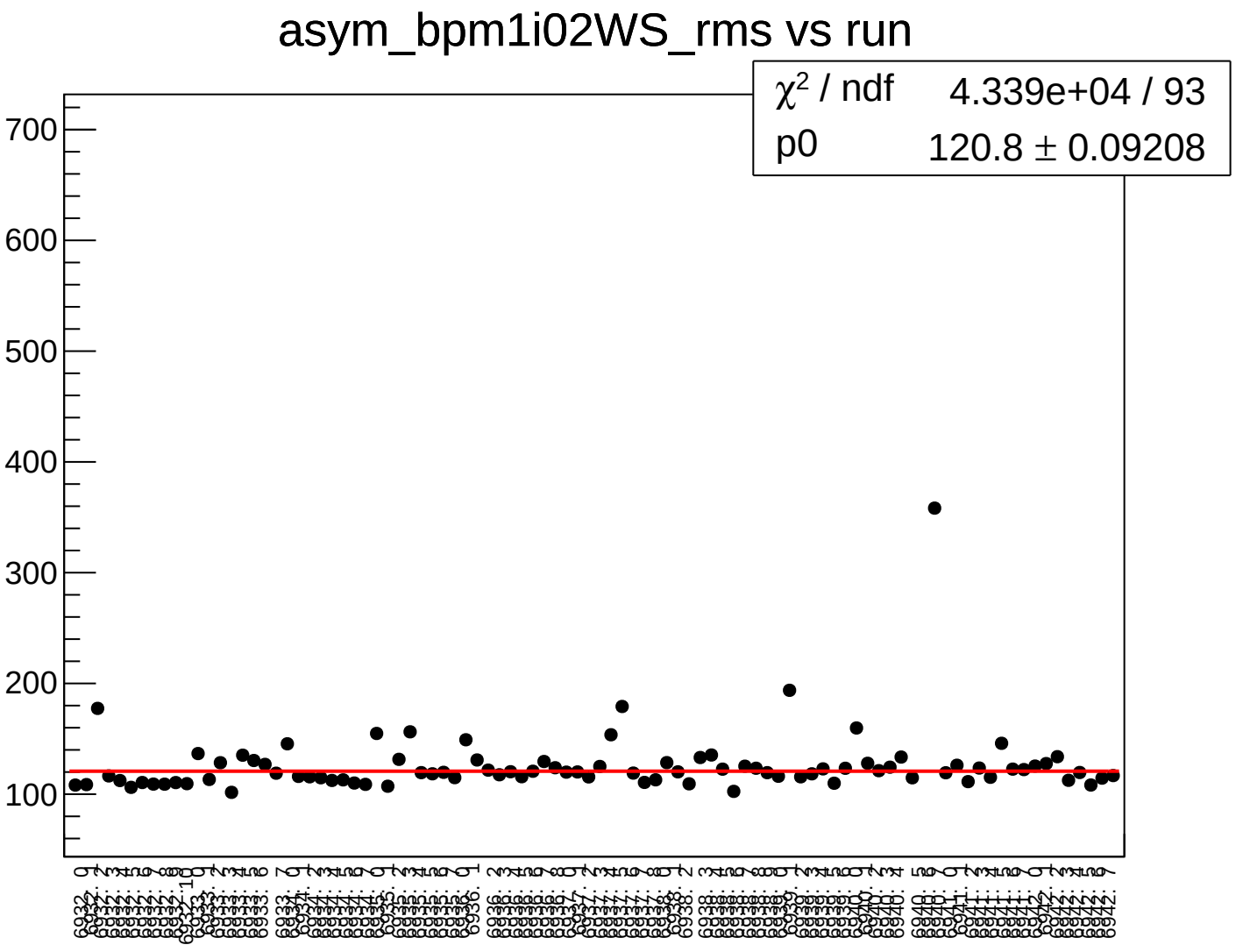

asym_bpm0i05WS_rms vs run
χ^2 / ndf 5.953e+04 / 93
p0 152 ± 0.1164
800
700
600
500
400
300
200
100

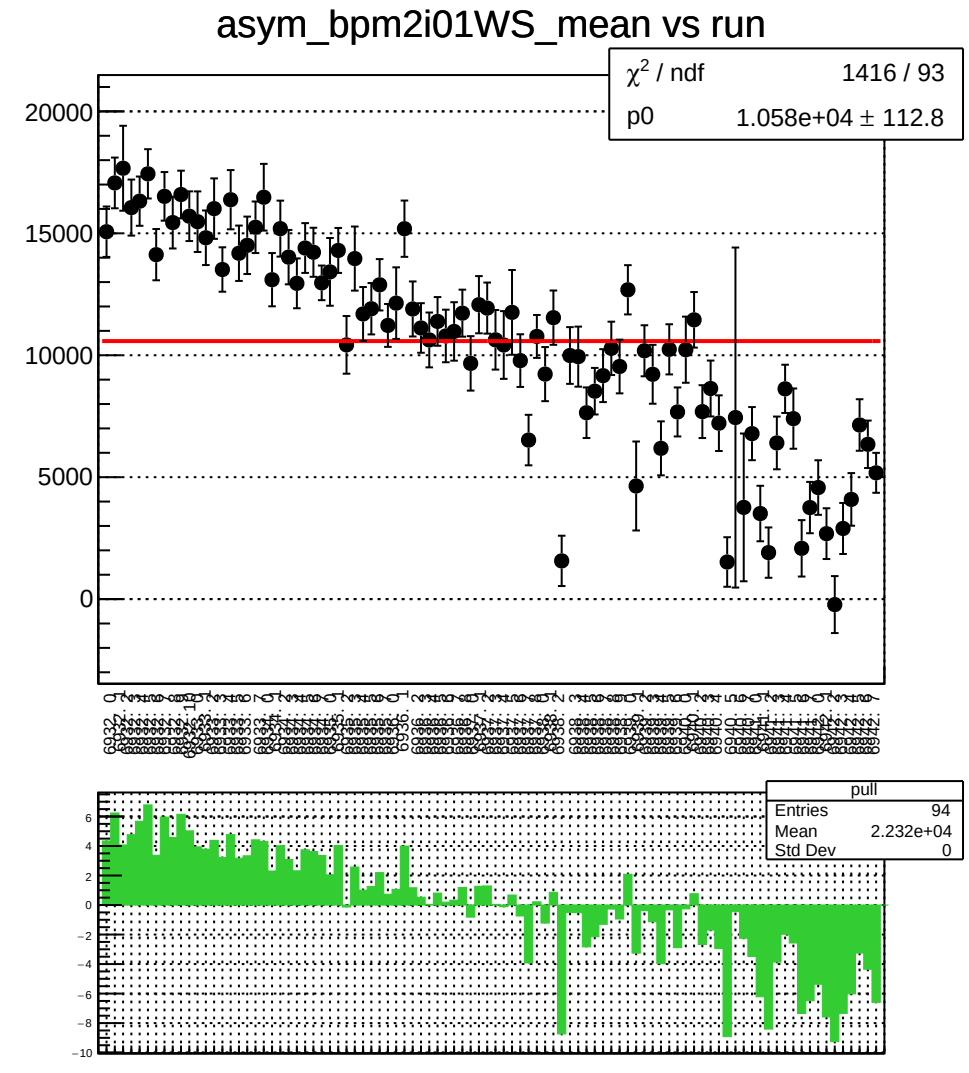

asym_bpm0i07WS_mean vs run
χ² / ndf 497.1 / 93
p0 −1160 ± 192.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 470.6
Std Dev 0
4
2
0
−2
−4

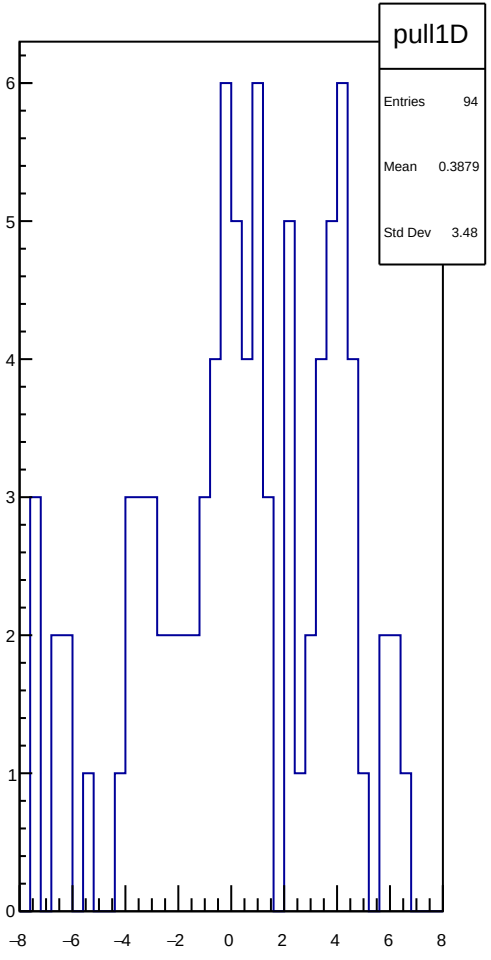

pull1D
Entries 94
Mean −0.1076
Std Dev 2.297
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

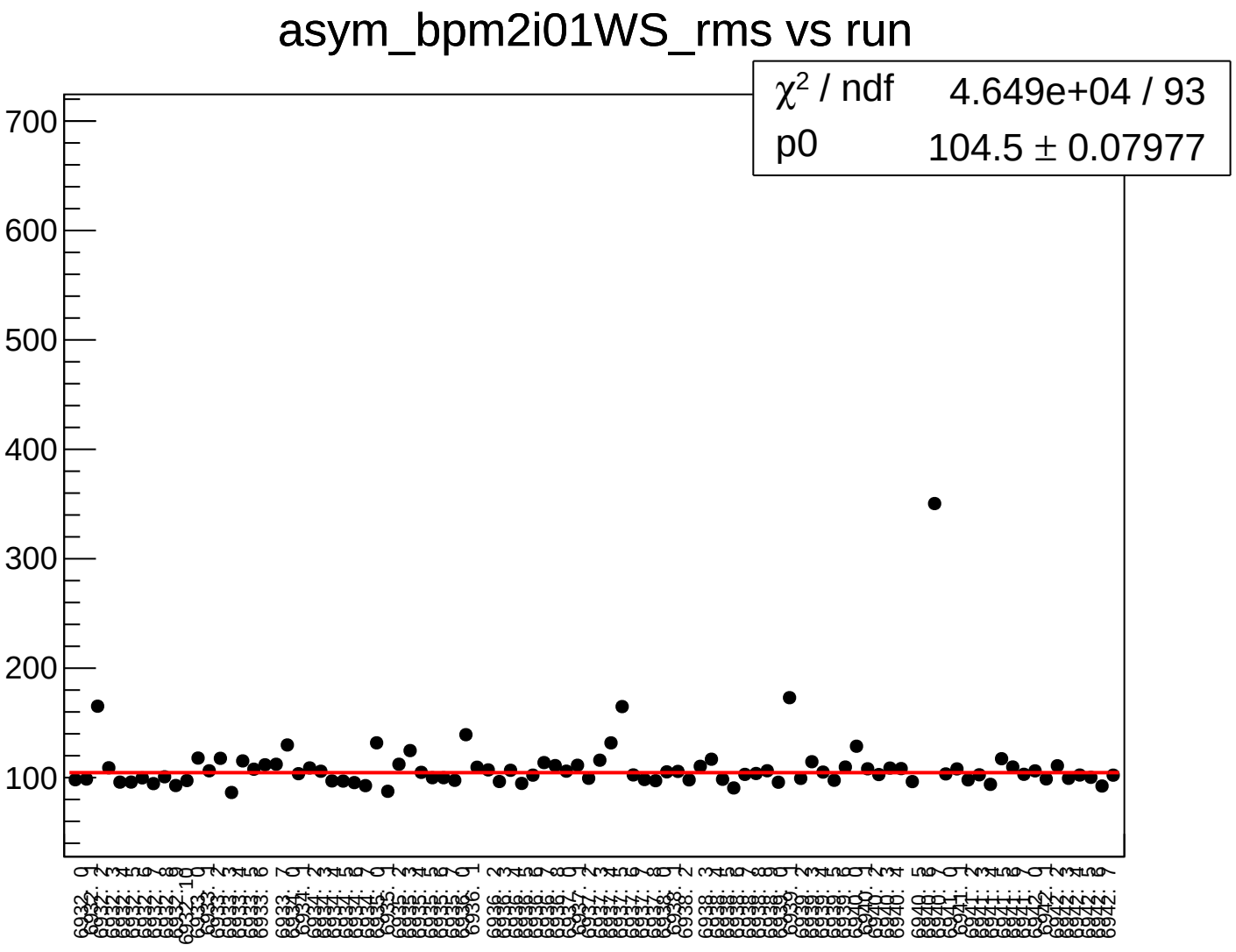

asym_bpm0i07WS_rms vs run
χ² / ndf 4.192e+04 / 93
p0 178.4 ± 0.1359
800
700
600
500
400
300
200
100

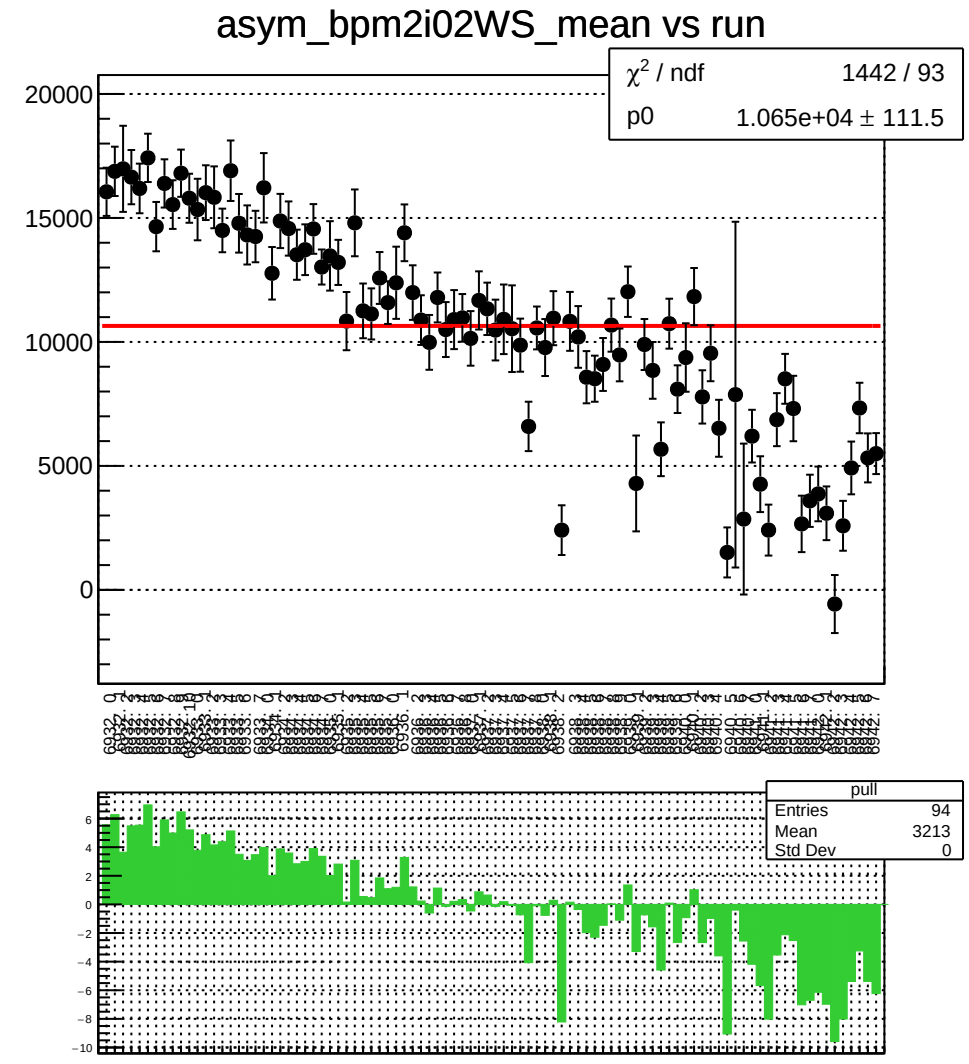

asym_bpm1i02WS_mean vs run
χ² / ndf 1093 / 93
p0 1.108e+04 ± 130.2
20000
15000
10000
5000
0
pull
Entries 94
Mean 3297
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 94
Mean 0.06101
Std Dev 3.324
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

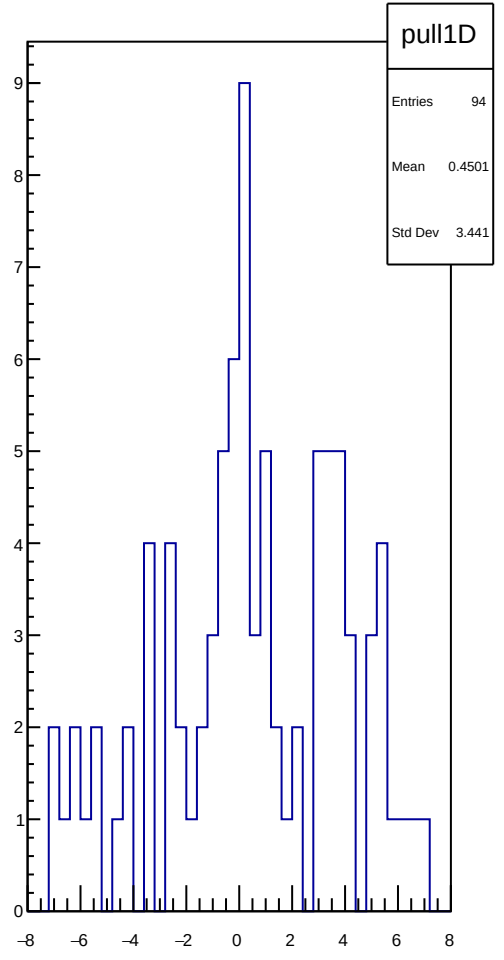

asym_bpm1i02WS_rms vs run
χ² / ndf 4.339e+04 / 93
p0 120.8 ± 0.09208
700
600
500
400
300
200
100

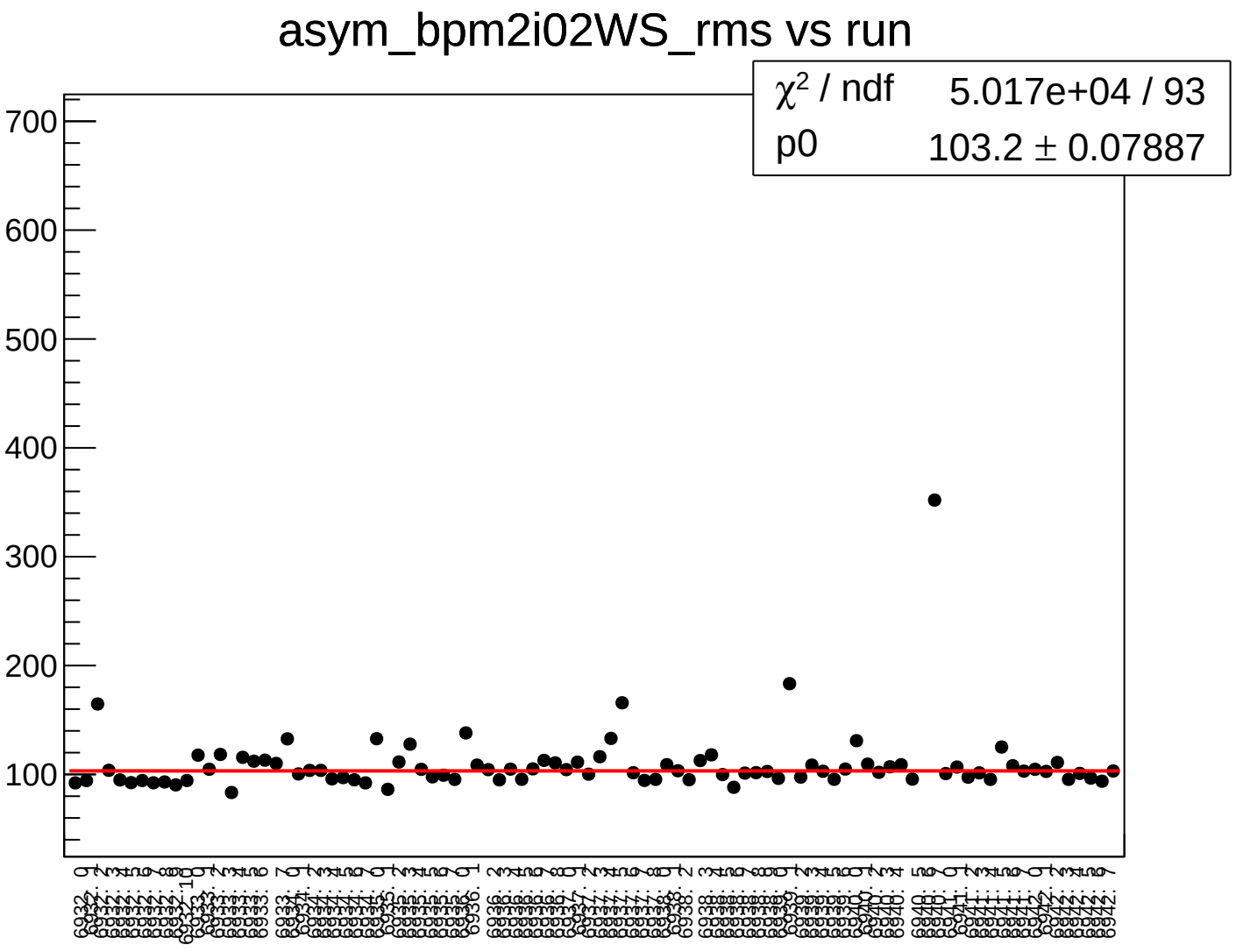

asym_bpm2i01WS_mean vs run
χ² / ndf 1416 / 93
p0 1.058e+04 ± 112.8
20000
15000
10000
5000
0
pull
Entries 94
Mean 2.232e+04
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

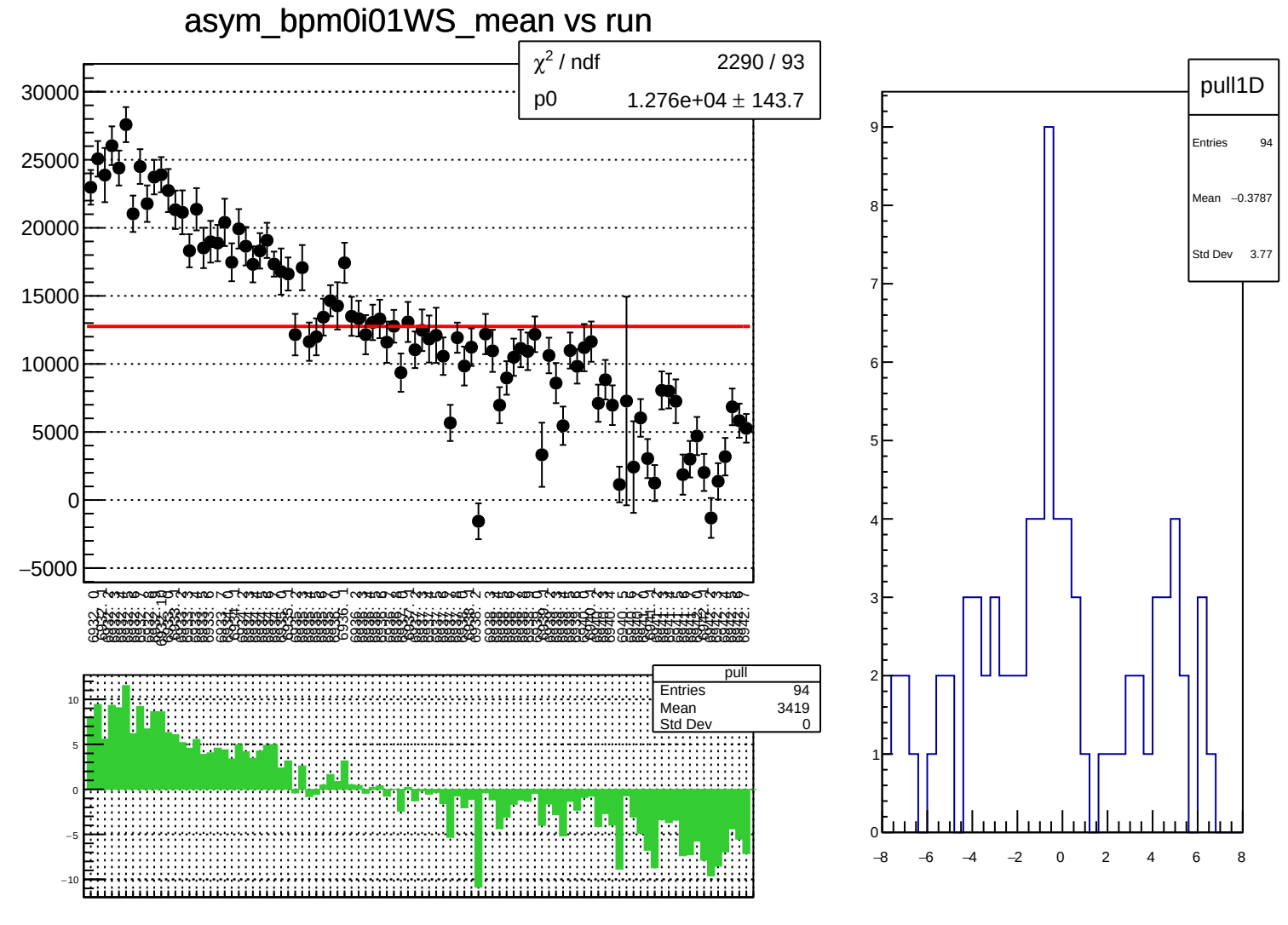

pull1D
Entries 94
Mean 0.3879
Std Dev 3.48
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

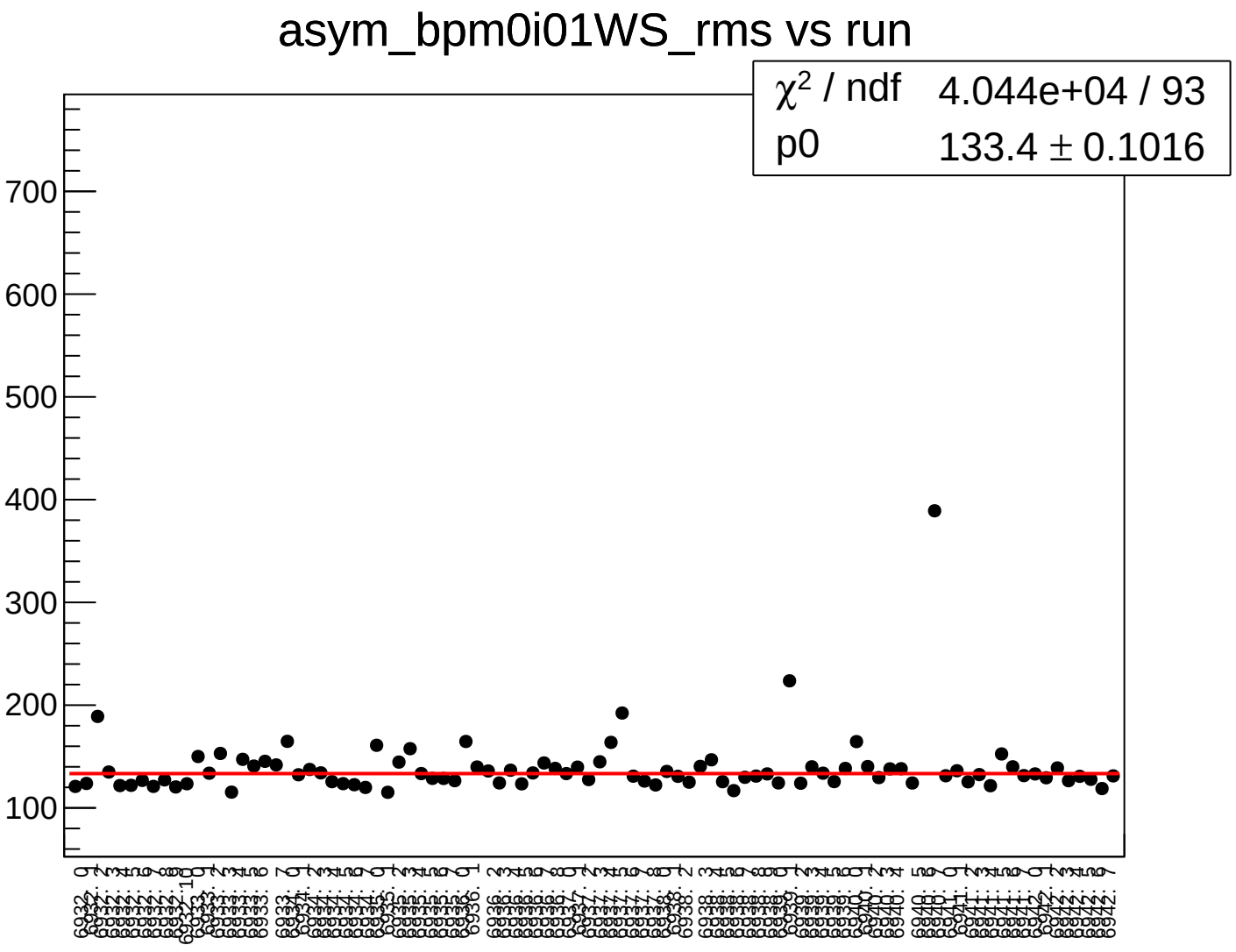

asym_bpm2i01WS_rms vs run
χ^2 / ndf 4.649e+04 / 93
p0 104.5 ± 0.07977
700
600
500
400
300
200
100

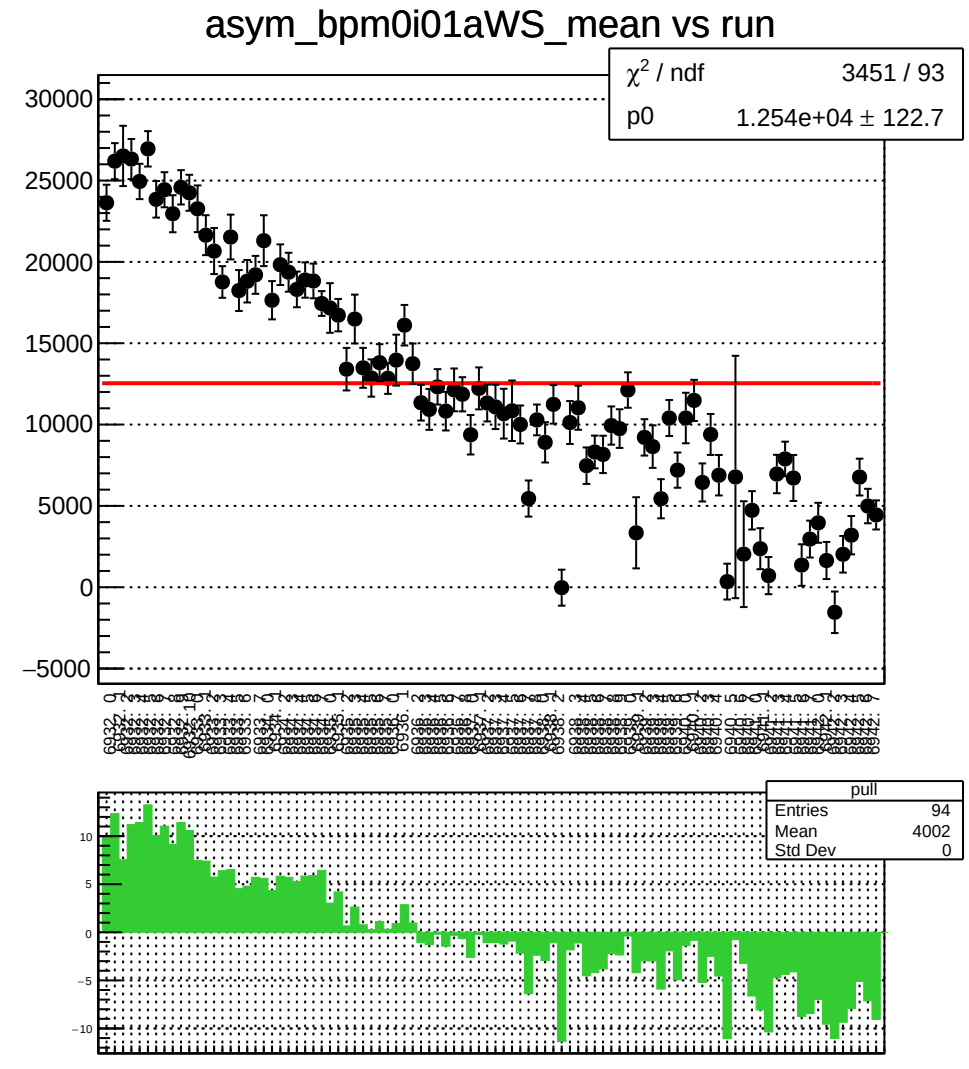

asym_bpm2i02WS_mean vs run
χ² / ndf 1442 / 93
p0 1.065e+04 ± 111.5
20000
15000
10000
5000
0
pull
Entries 94
Mean 3213
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10

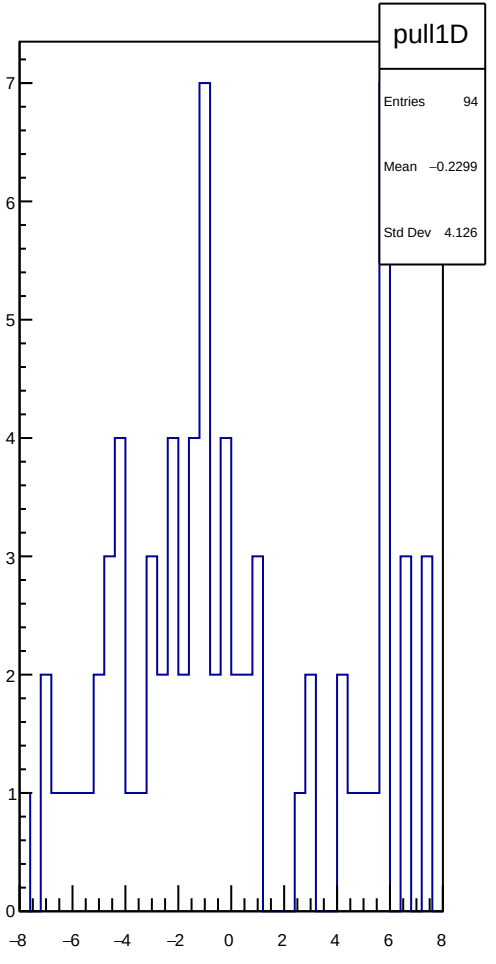

pull1D
Entries 94
Mean 0.4501
Std Dev 3.441
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

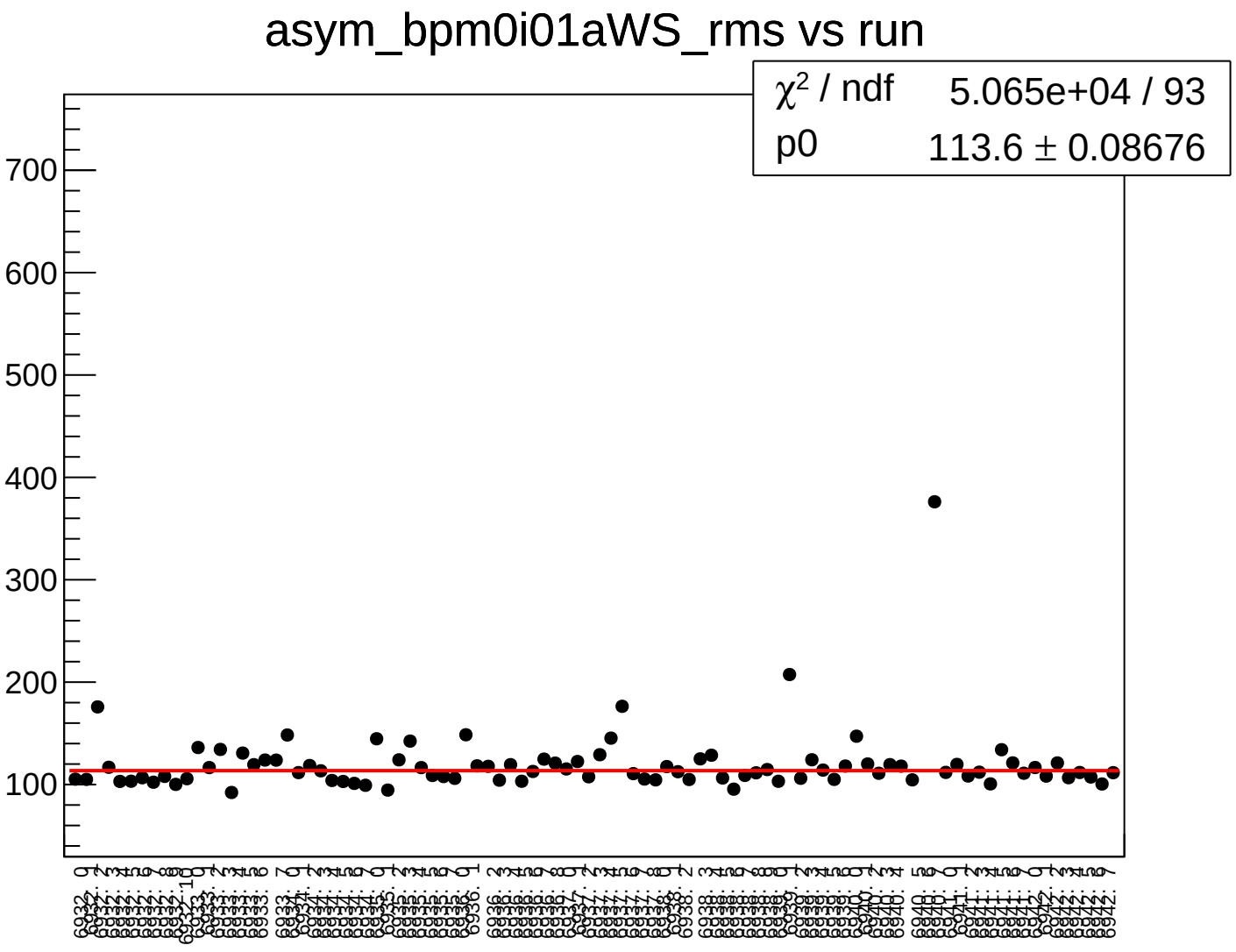

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5.017e+04 / 93
p0 103.2 ± 0.07887
700
600
500
400
300
200
100

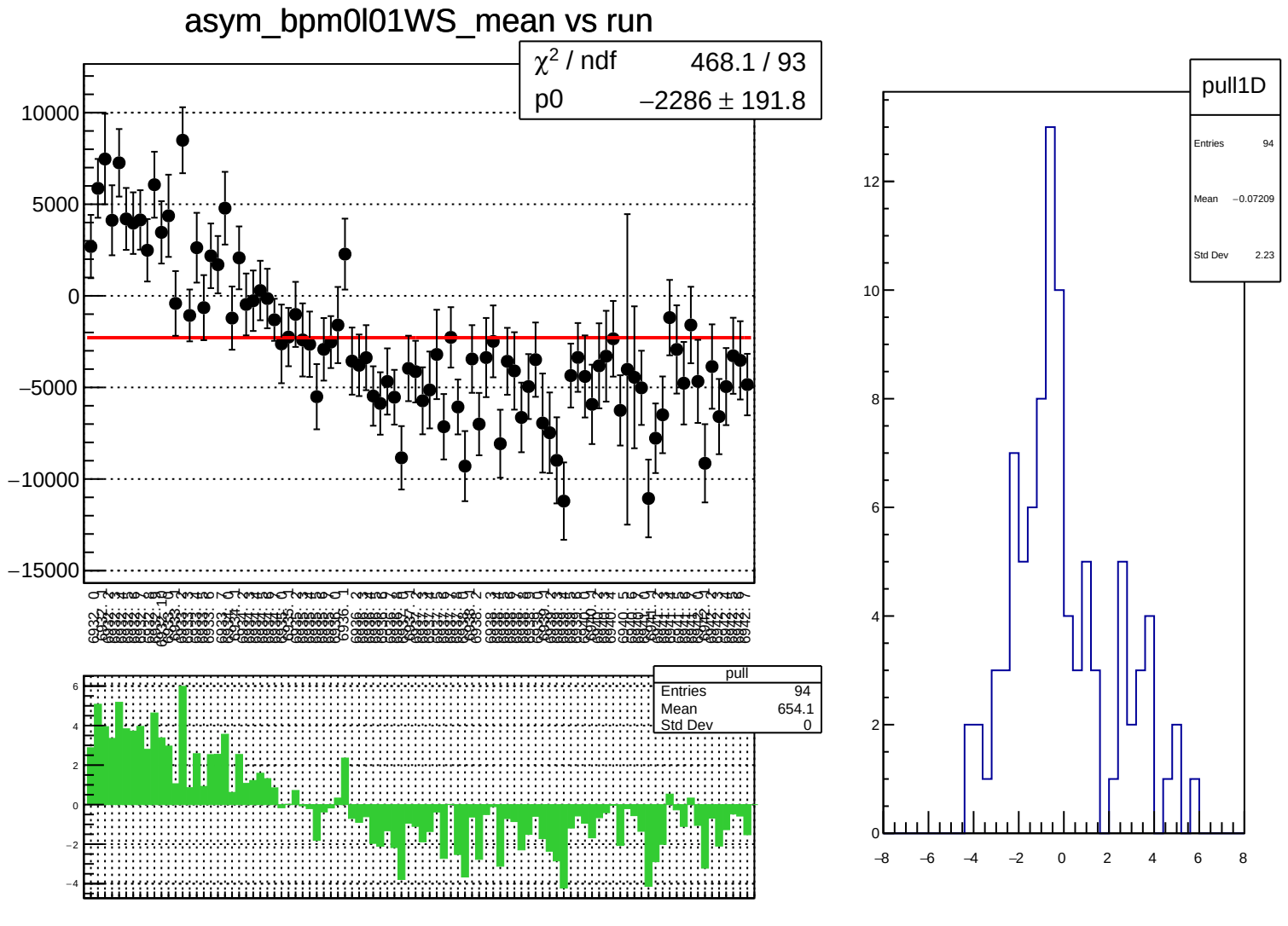

asym_bpm0i01WS_mean vs run
χ² / ndf 2290 / 93
p0 1.276e+04 ± 143.7
pull
Entries 94
Mean 3419
Std Dev 0
pull1D
Entries 94
Mean −0.3787
Std Dev 3.77

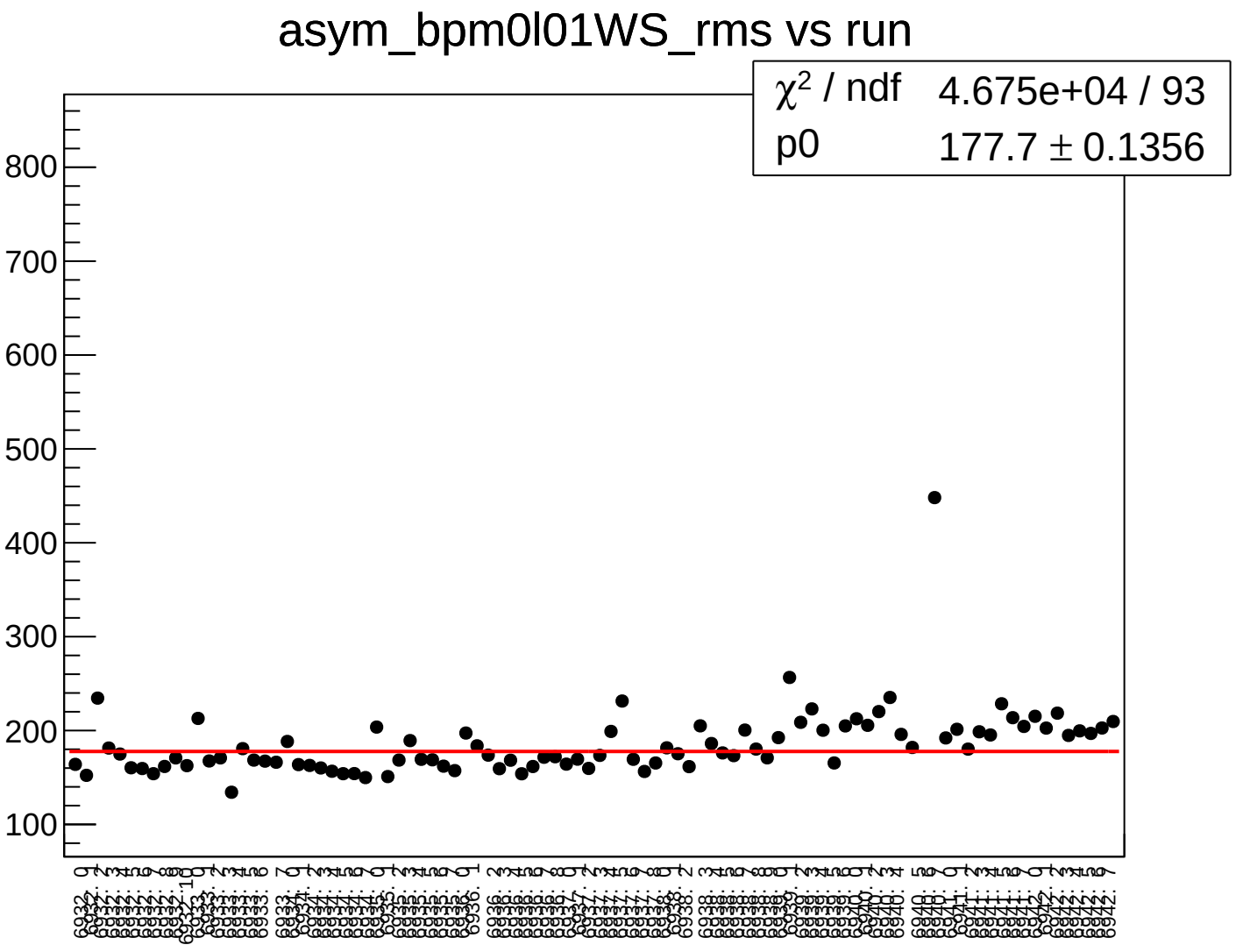

asym_bpm0i01WS_rms vs run
χ^2 / ndf 4.044e+04 / 93
p0 133.4 ± 0.1016
700
600
500
400
300
200
100

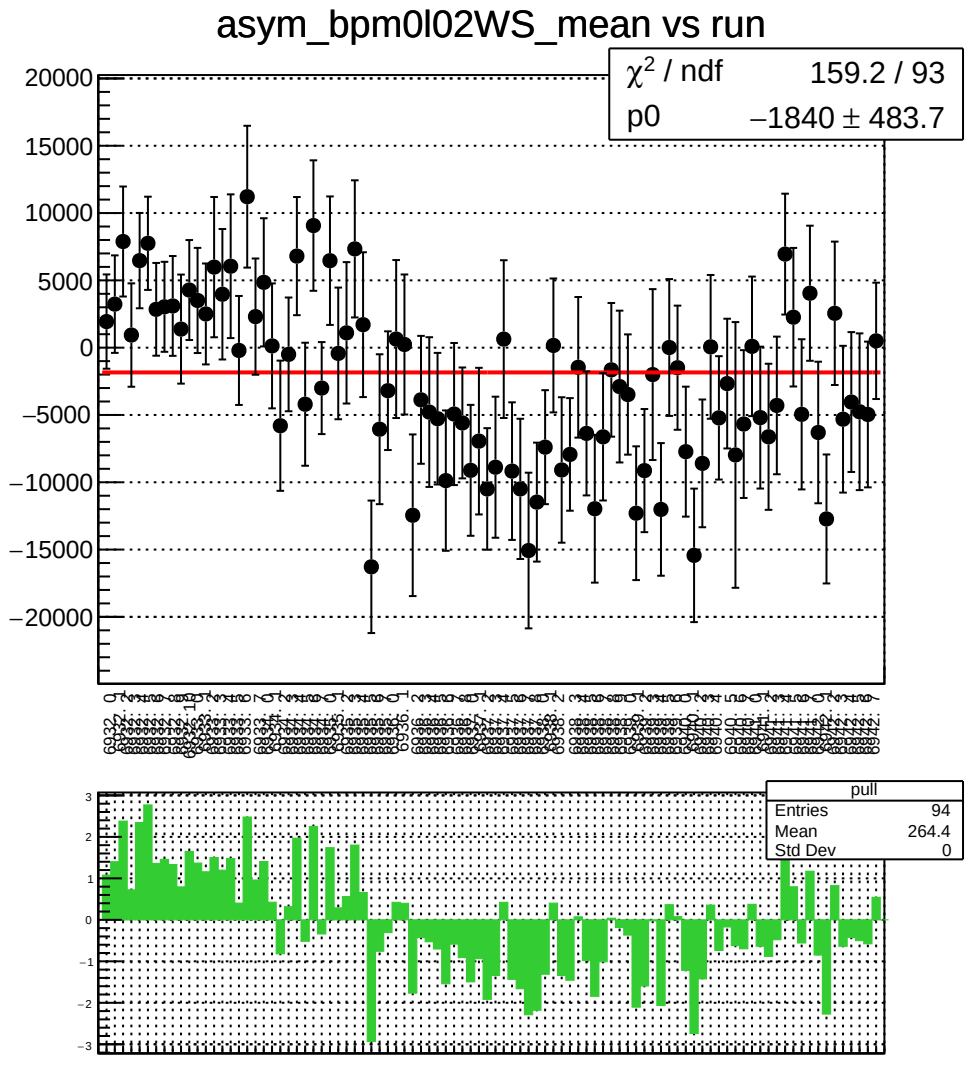

asym_bpm0i01aWS_mean vs run
χ² / ndf 3451 / 93
p0 1.254e+04 ± 122.7
30000
25000
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 4002
Std Dev 0
10
5
0
−5
−10

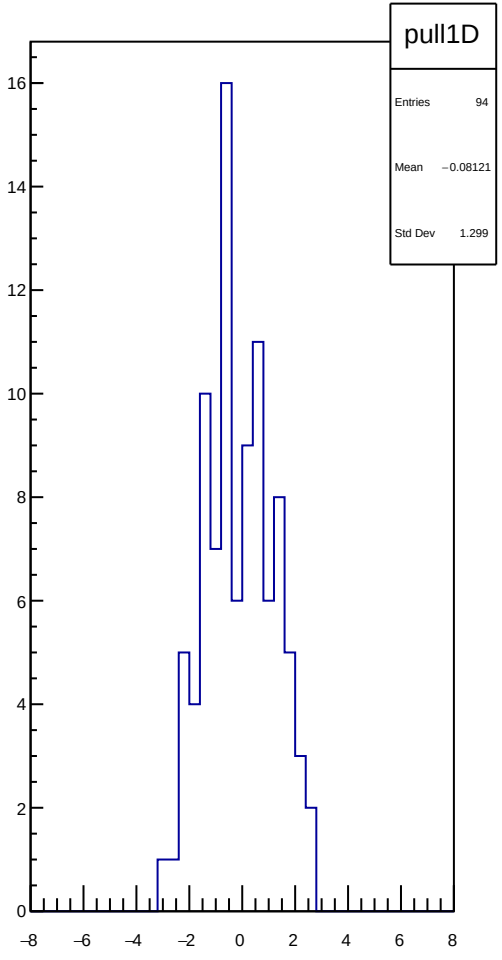

pull1D
Entries 94
Mean −0.2299
Std Dev 4.126
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

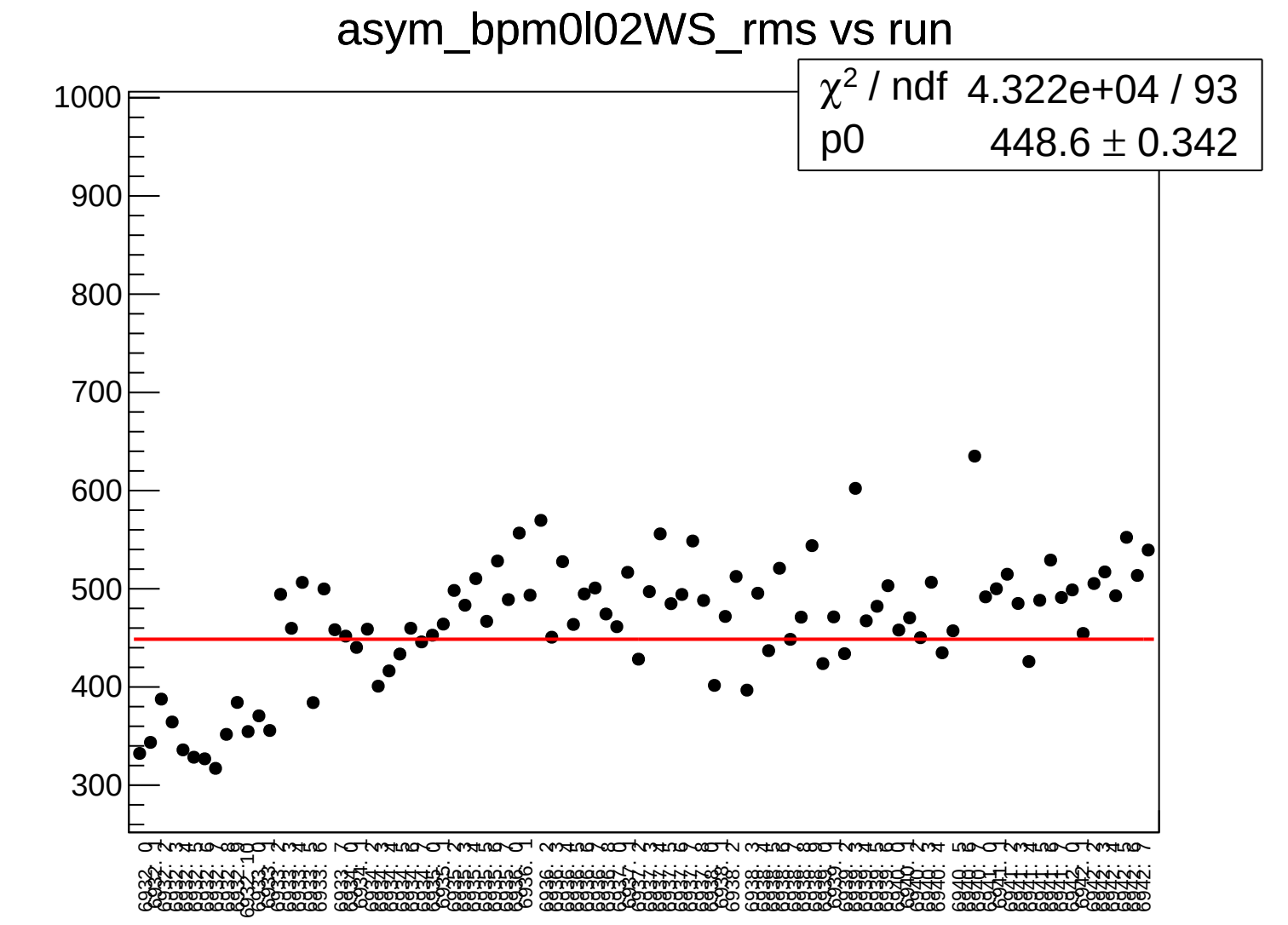

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 5.065e+04 / 93
p0 113.6 ± 0.08676
700
600
500
400
300
200
100

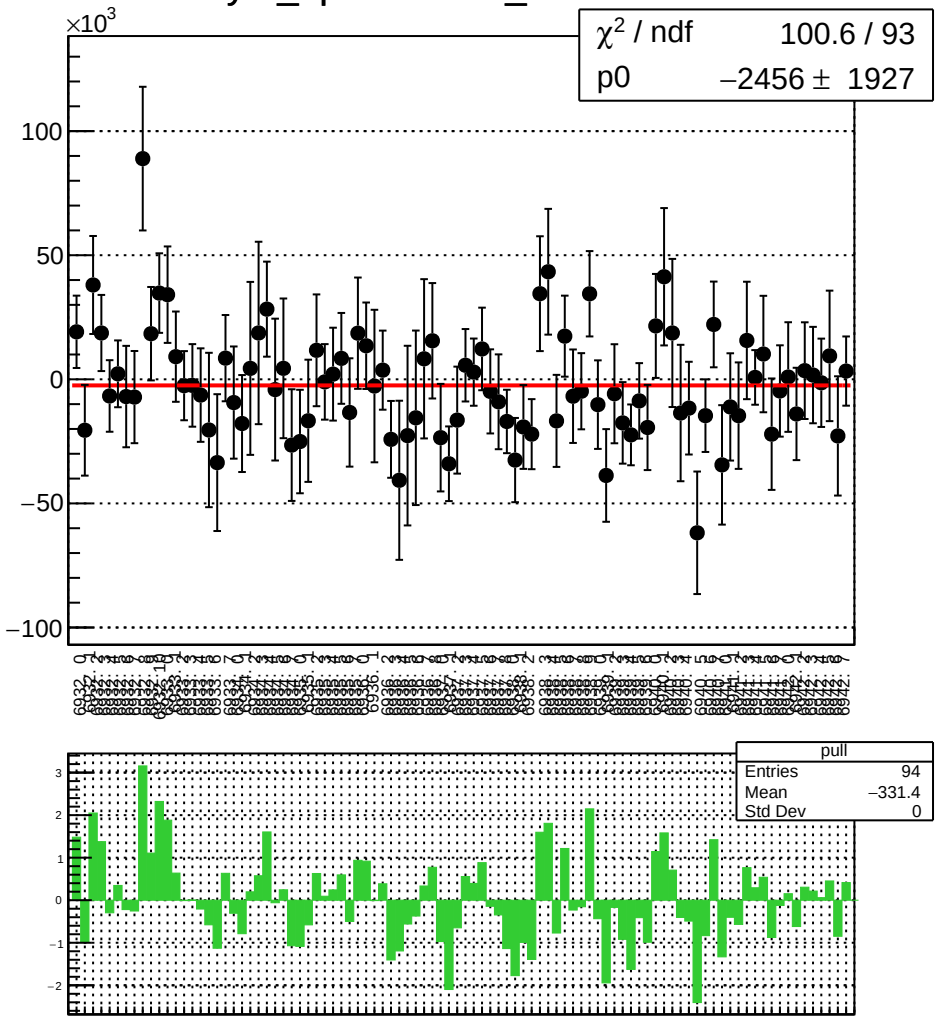

asym_bpm0l01WS_mean vs run
χ² / ndf 468.1 / 93
p0 −2286 ± 191.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 654.1
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.07209
Std Dev 2.23
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

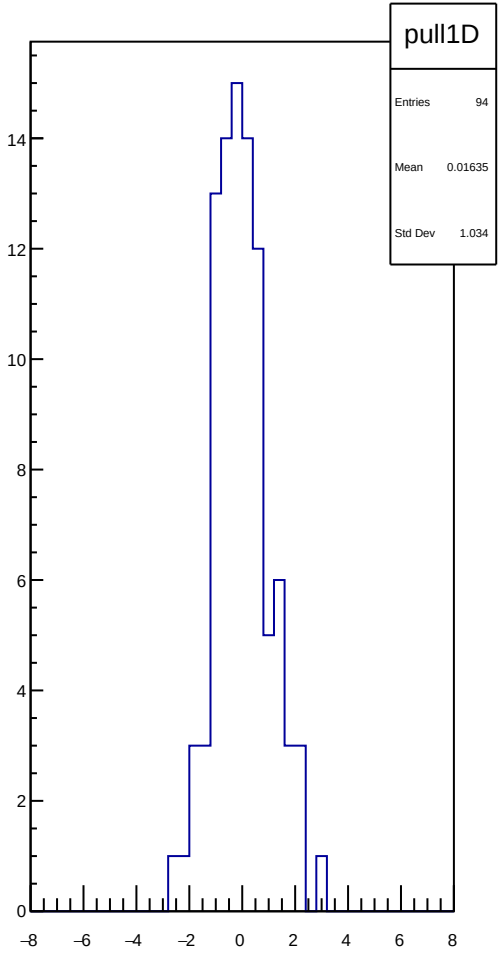

asym_bpm0l01WS_rms vs run
χ² / ndf 4.675e+04 / 93
p0 177.7 ± 0.1356
800
700
600
500
400
300
200
100

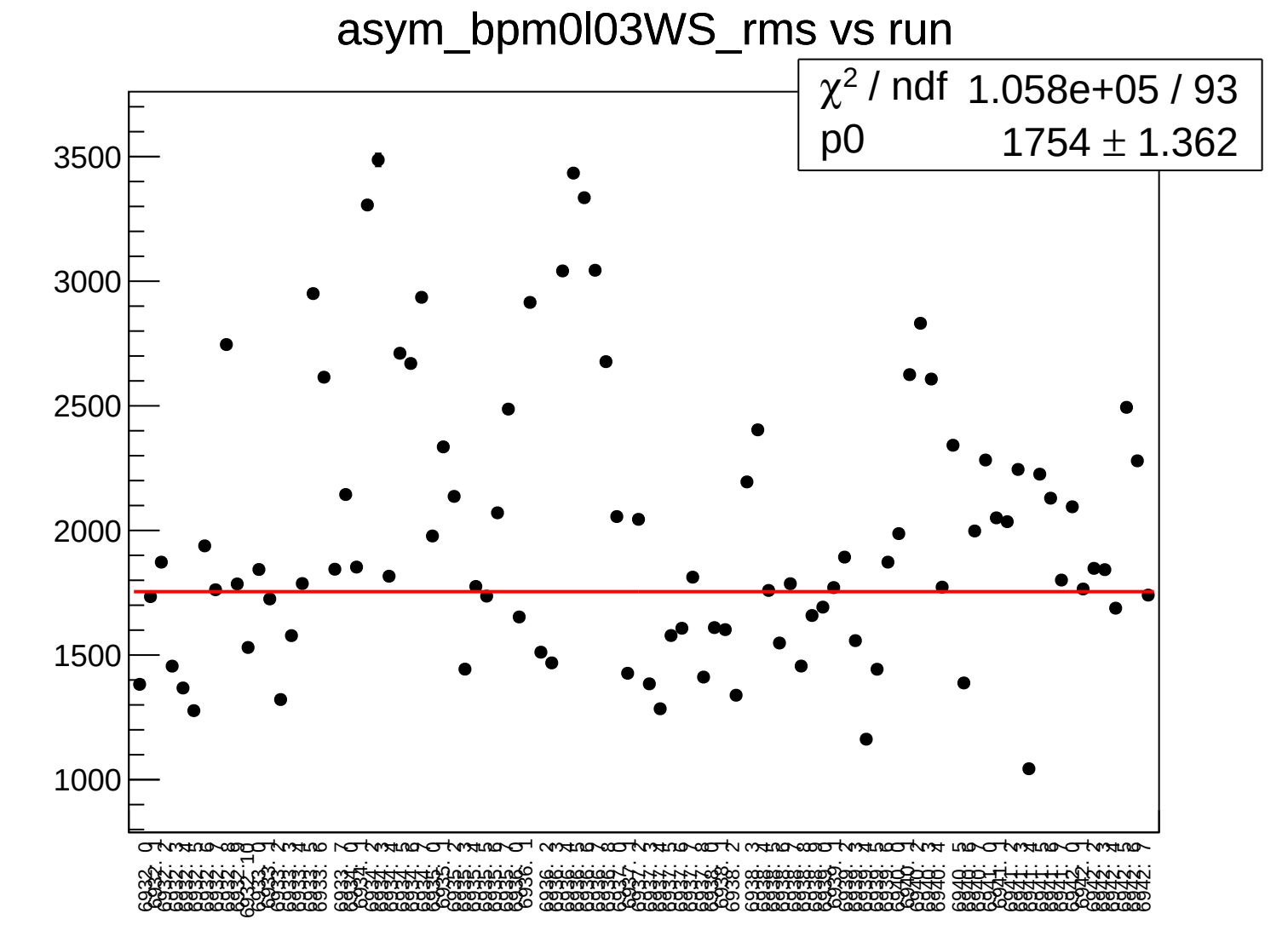

asym_bpm0l02WS_mean vs run
χ² / ndf 159.2 / 93
p0 −1840 ± 483.7
pull
Entries 94
Mean 264.4
Std Dev 0

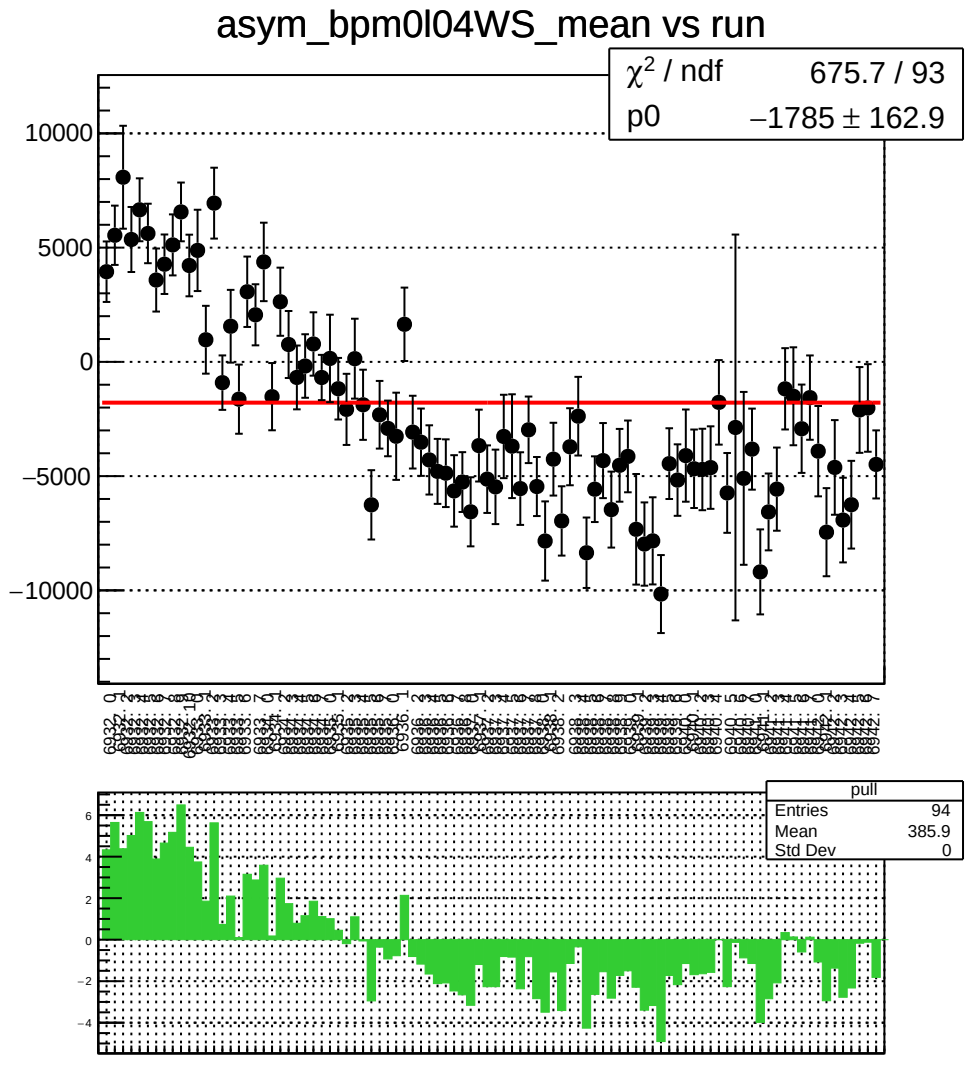

pull1D
Entries 94
Mean −0.08121
Std Dev 1.299

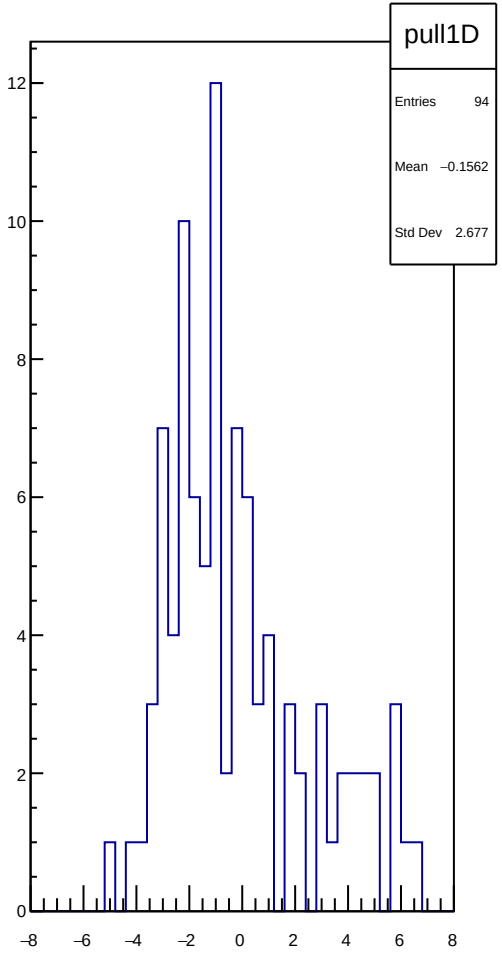

asym_bpm0l02WS_rms vs run
χ² / ndf 4.322e+04 / 93
p0 448.6 ± 0.342
1000
900
800
700
600
500
400
300

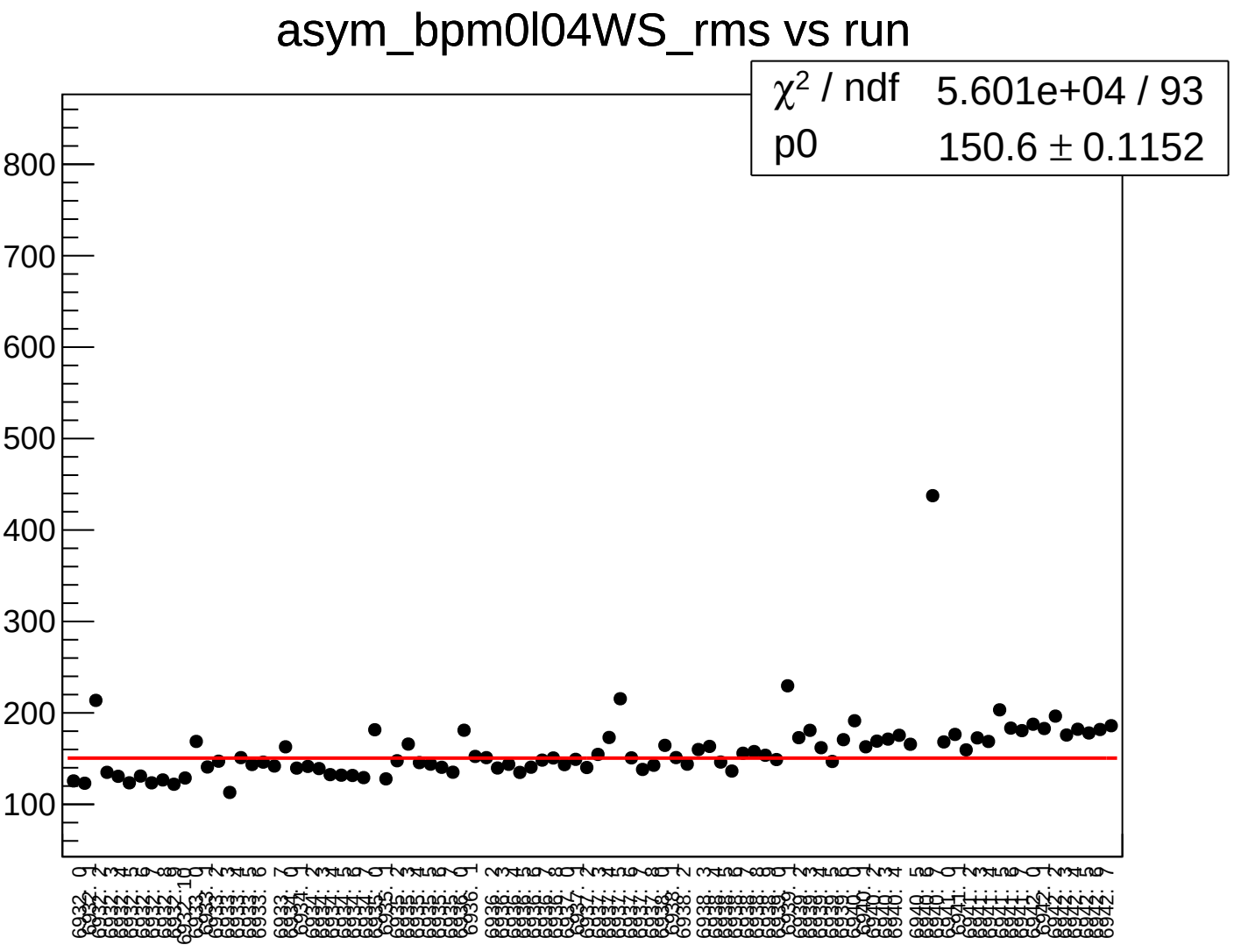

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 100.6 / 93
p0 −2456 ± 1927
100
50
0
−50
−100
pull
Entries 94
Mean −331.4
Std Dev 0
3
2
1
0
−1
−2

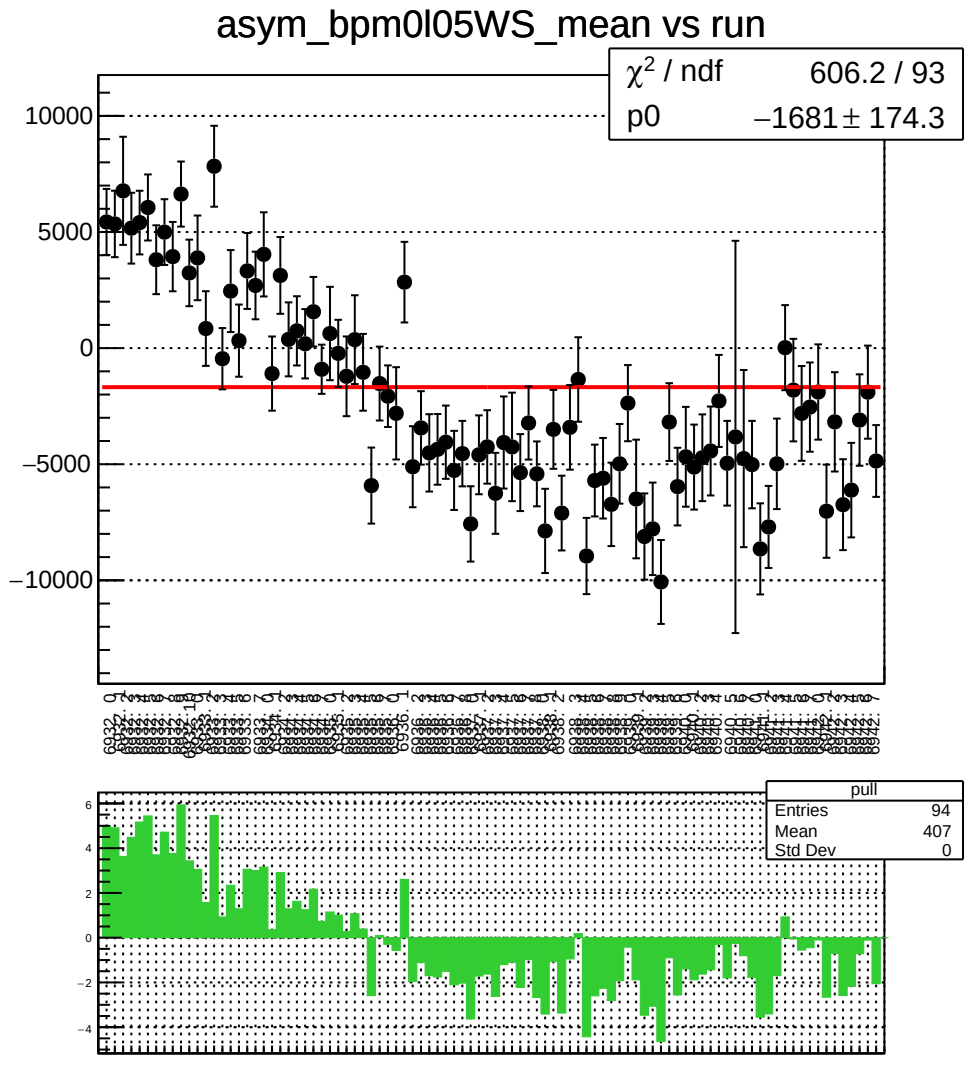

pull1D
Entries 94
Mean 0.01635
Std Dev 1.034
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

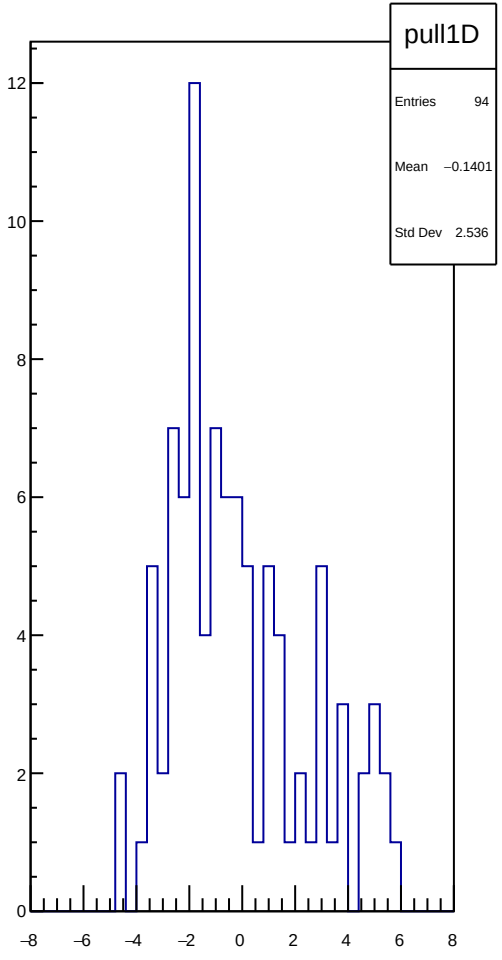

asym_bpm0l03WS_rms vs run
χ^2 / ndf 1.058e+05 / 93
p0 1754 ± 1.362
3500
3000
2500
2000
1500
1000

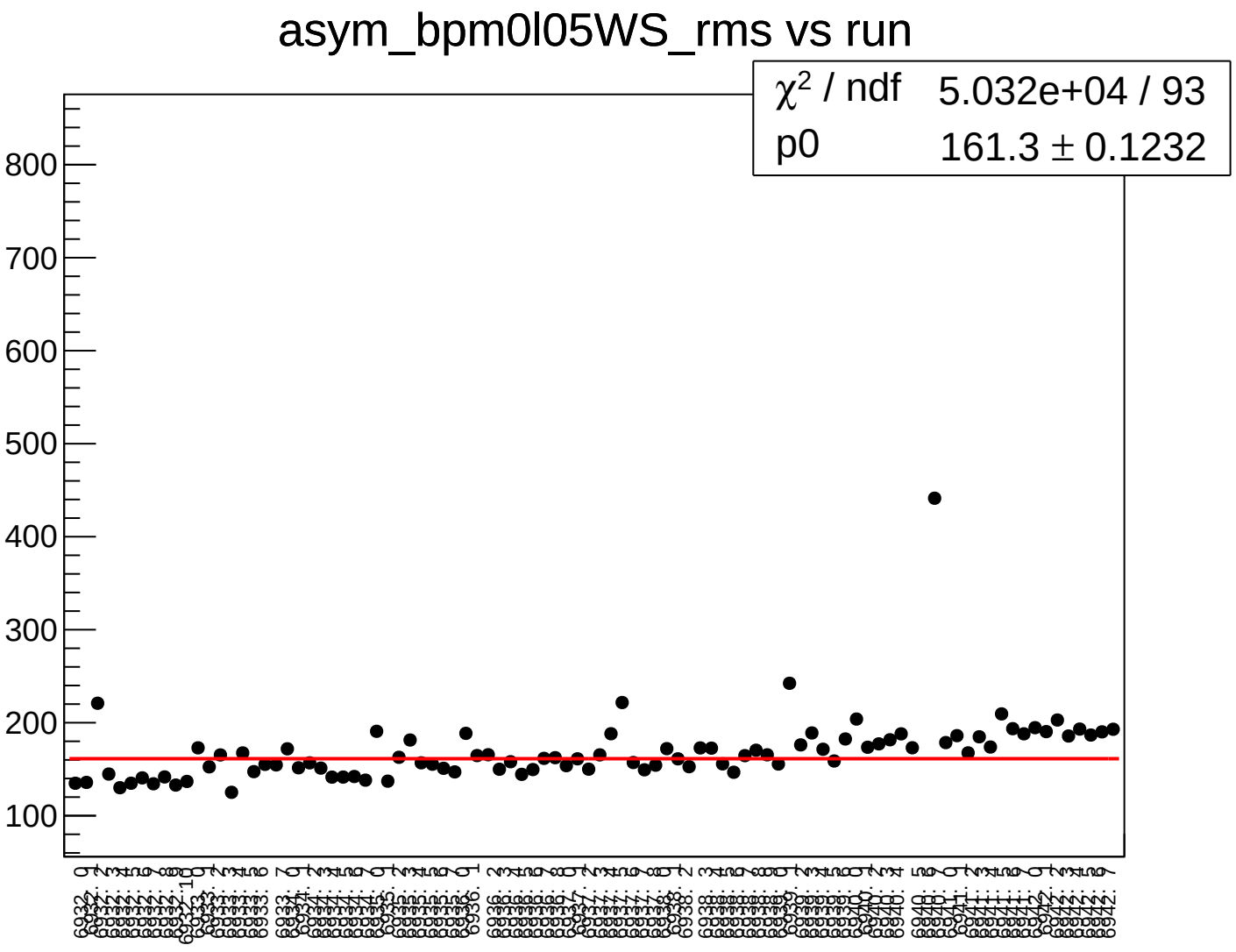

asym_bpm0l04WS_mean vs run
χ² / ndf 675.7 / 93
p0 −1785 ± 162.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 385.9
Std Dev 0
6
4
2
0
−2
−4

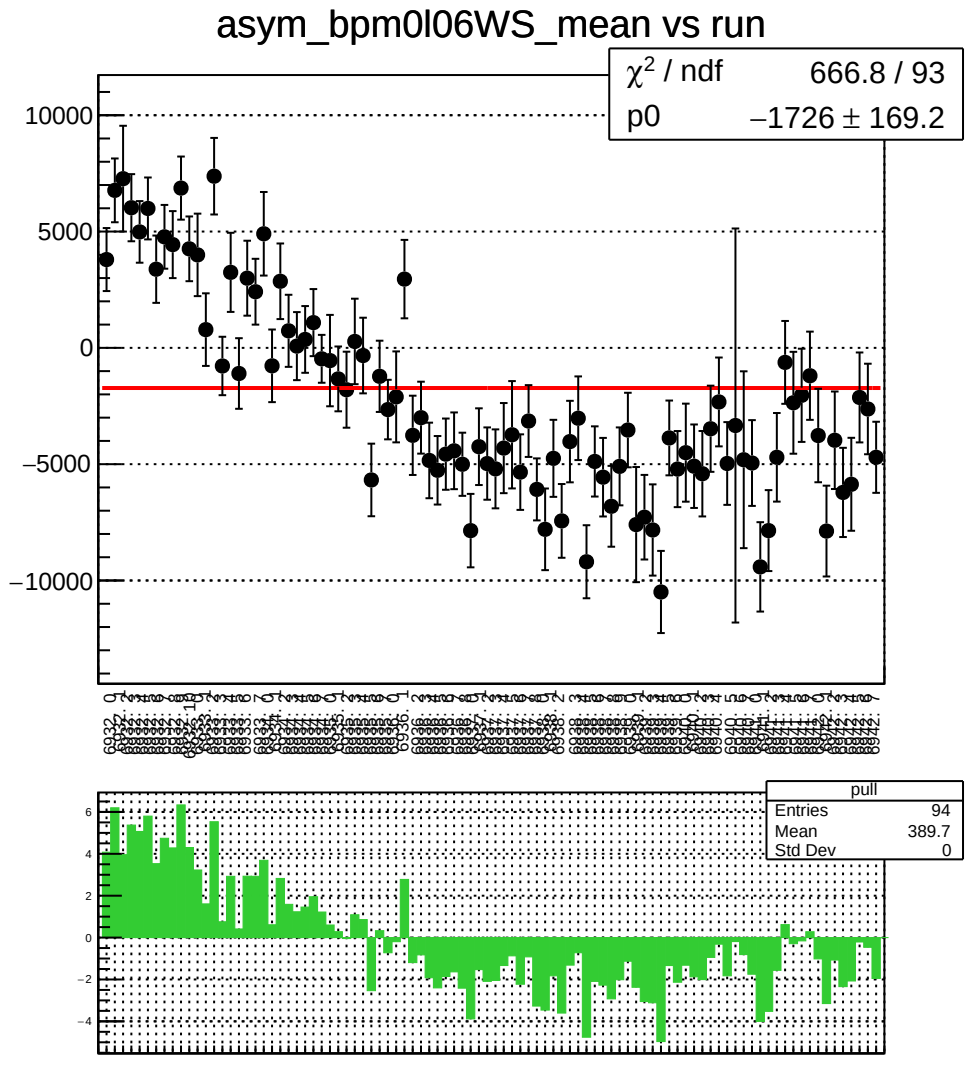

pull1D
Entries 94
Mean −0.1562
Std Dev 2.677
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

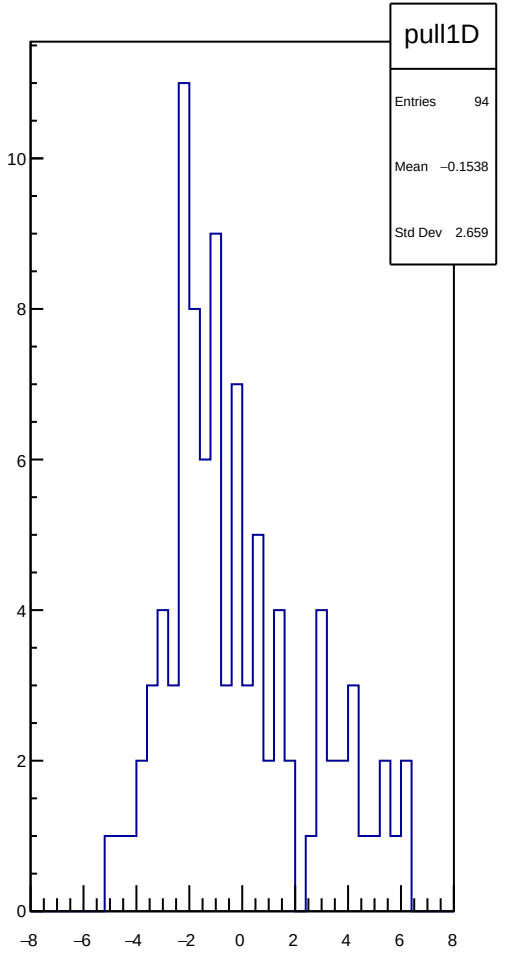

asym_bpm0l04WS_rms vs run
χ^2 / ndf 5.601e+04 / 93
p0 150.6 ± 0.1152
800
700
600
500
400
300
200
100

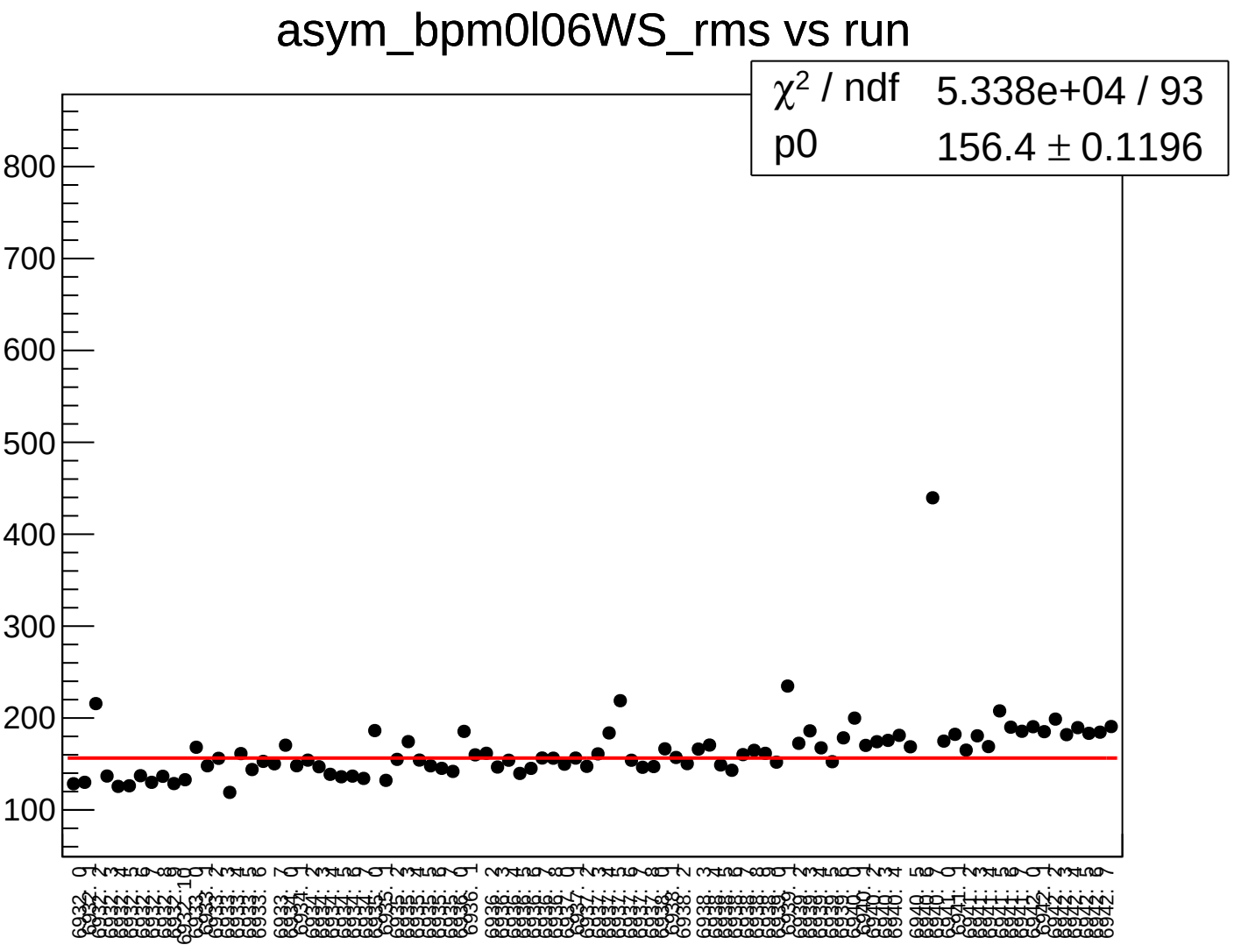

asym_bpm0l05WS_mean vs run
χ² / ndf 606.2 / 93
p0 −1681 ± 174.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 407
Std Dev 0
6
4
2
0
−2
−4

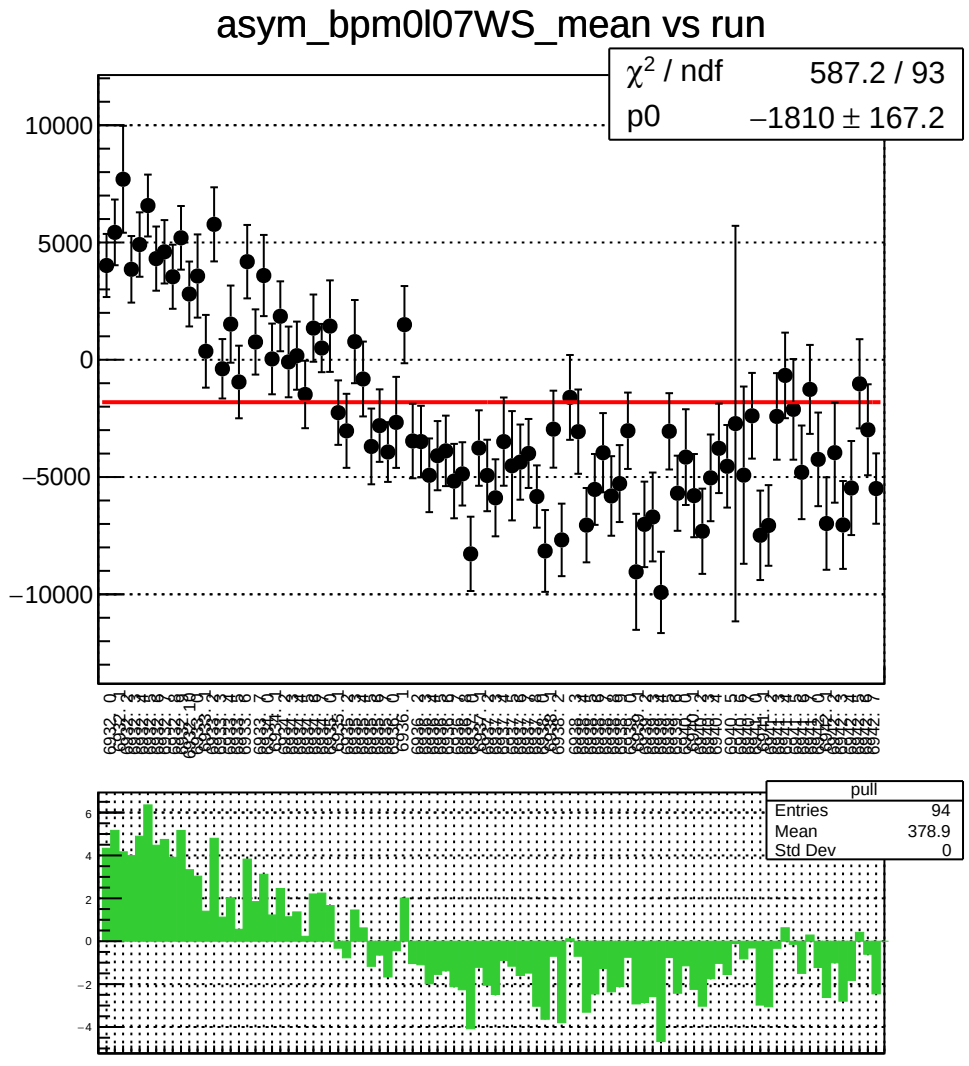

pull1D
Entries 94
Mean −0.1401
Std Dev 2.536
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

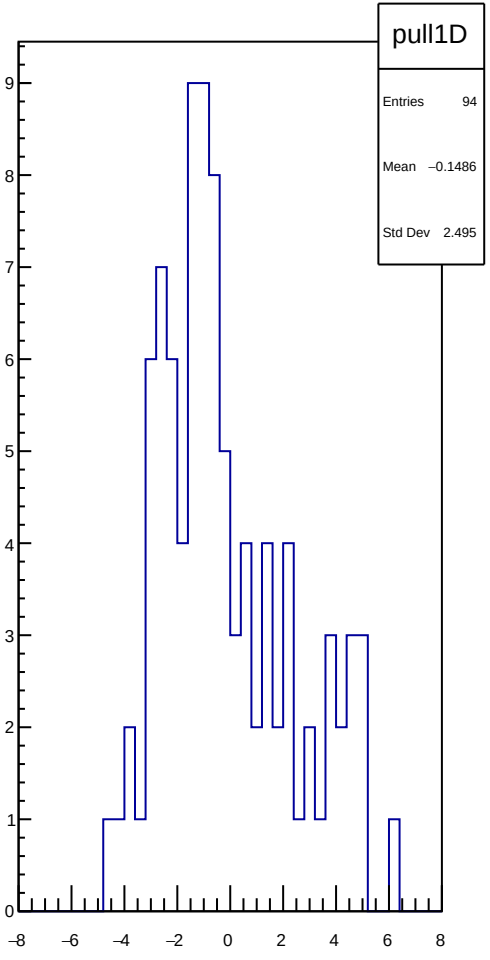

asym_bpm0l05WS_rms vs run
χ^2 / ndf 5.032e+04 / 93
p0 161.3 ± 0.1232
800
700
600
500
400
300
200
100

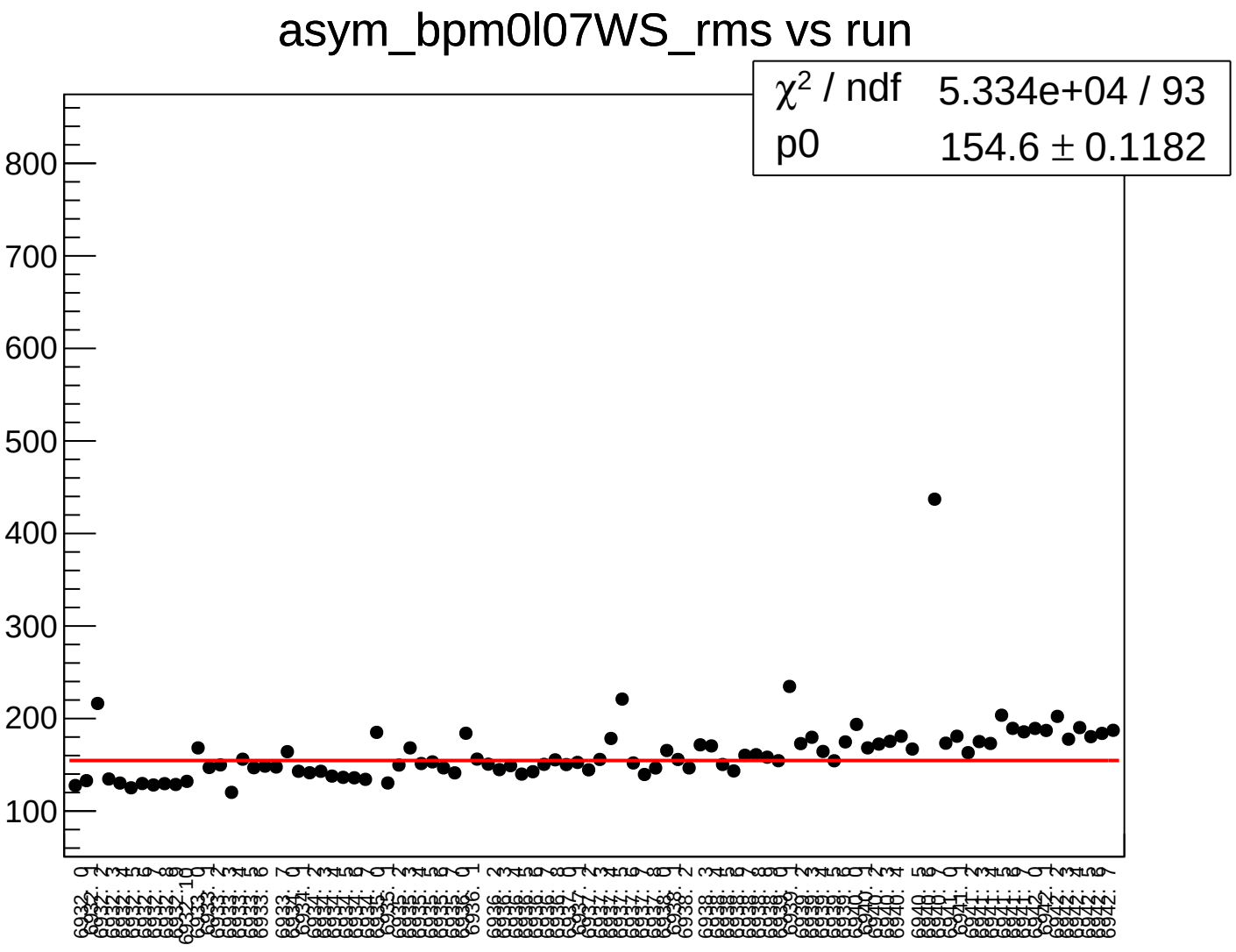

asym_bpm0l06WS_mean vs run
χ² / ndf 666.8 / 93
p0 −1726 ± 169.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 389.7
Std Dev 0
6
4
2
0
−2
−4

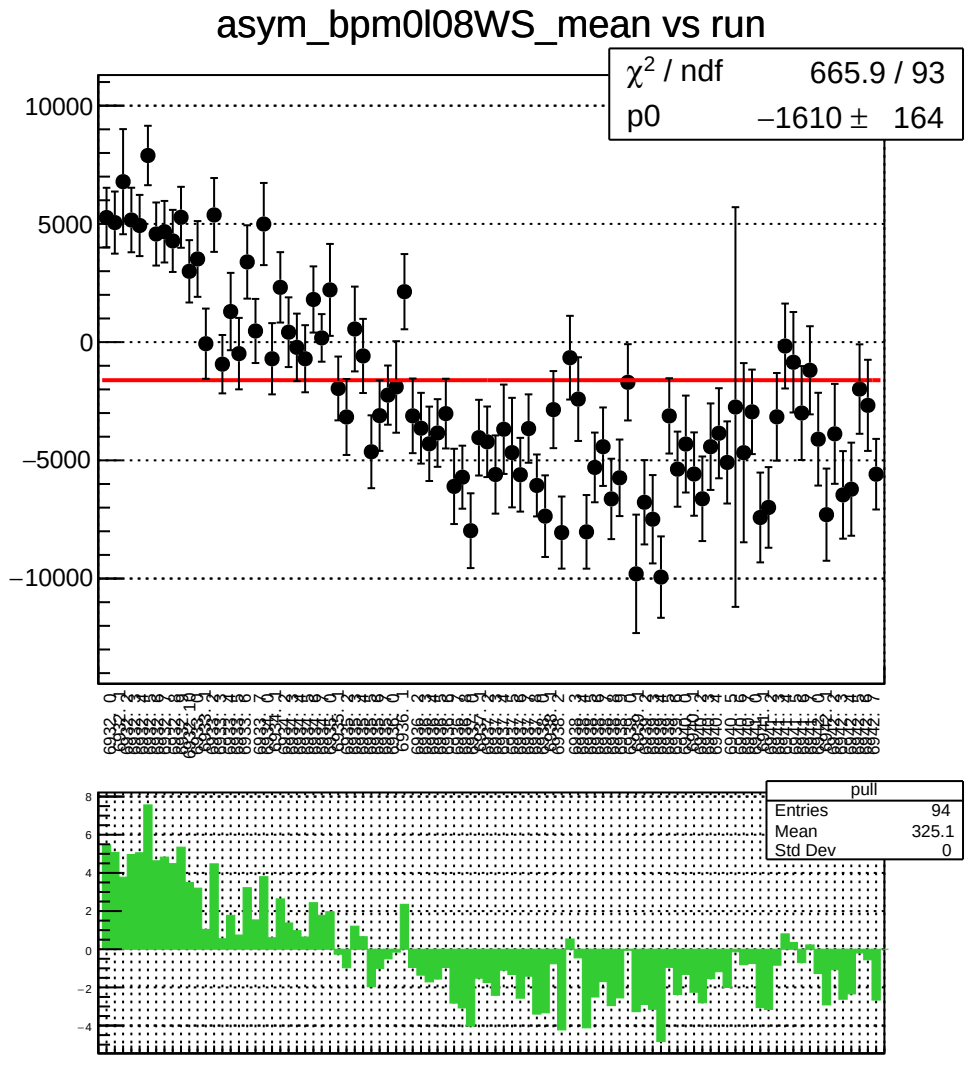

pull1D
Entries 94
Mean −0.1538
Std Dev 2.659
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

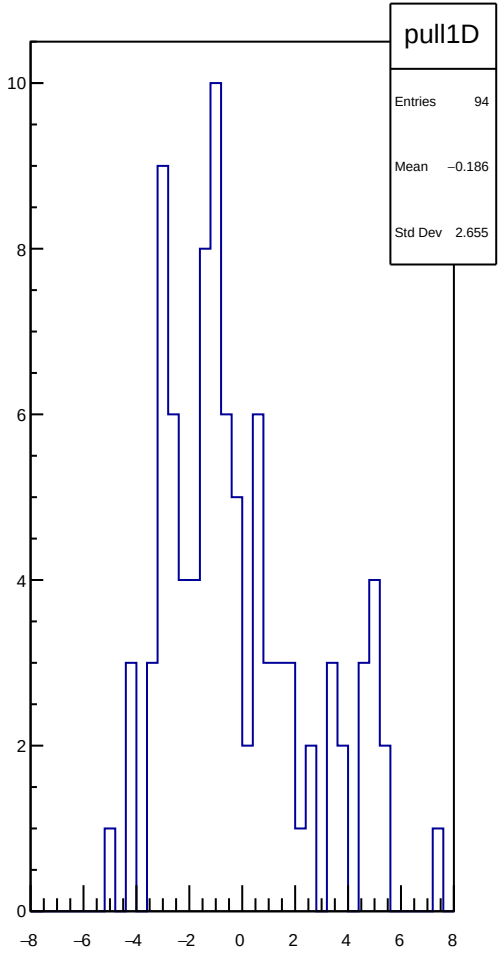

asym_bpm0l06WS_rms vs run
χ^2 / ndf 5.338e+04 / 93
p0 156.4 ± 0.1196
800
700
600
500
400
300
200
100

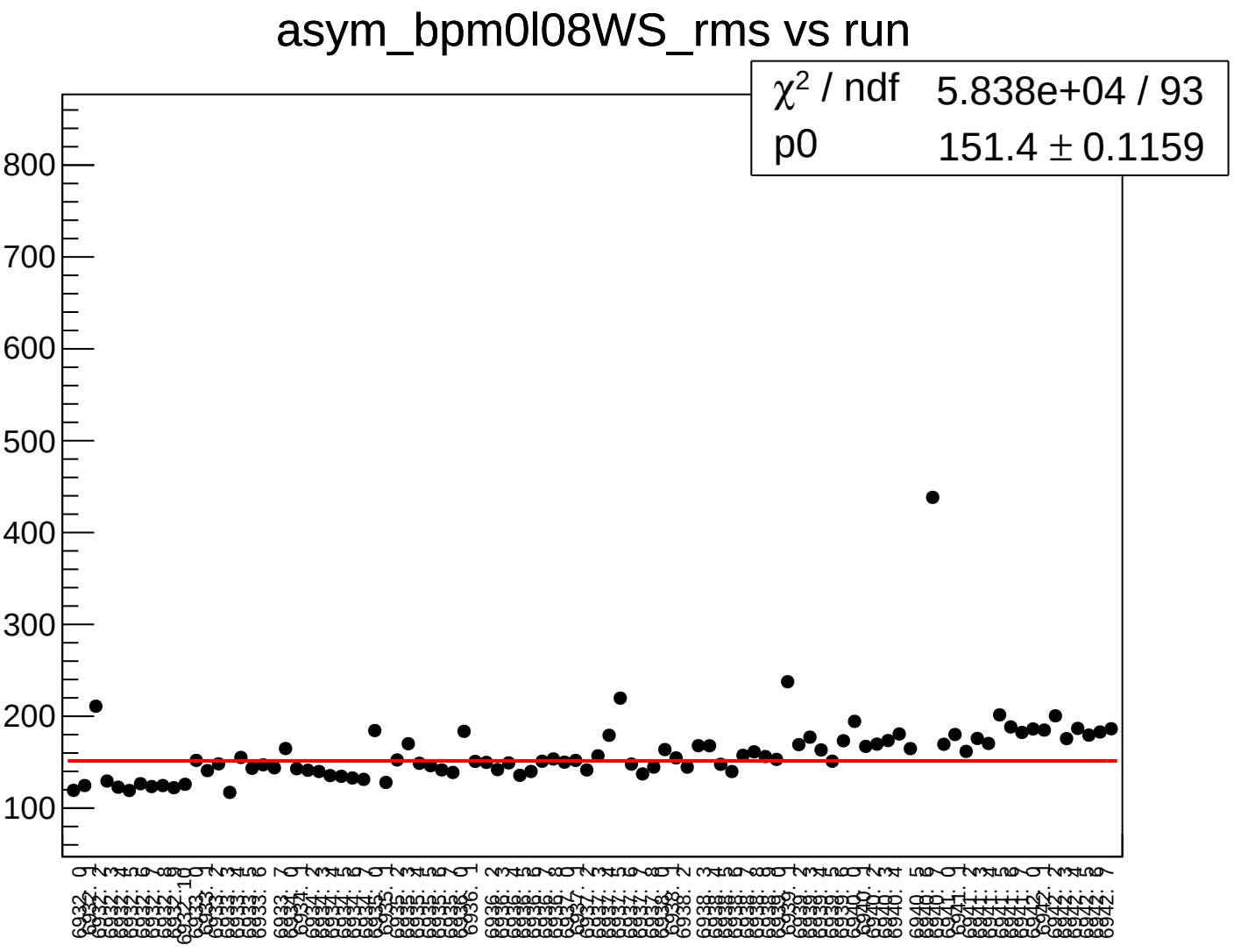

asym_bpm0l07WS_mean vs run
χ² / ndf 587.2 / 93
p0 −1810 ± 167.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 378.9
Std Dev 0
6
4
2
0
−2
−4

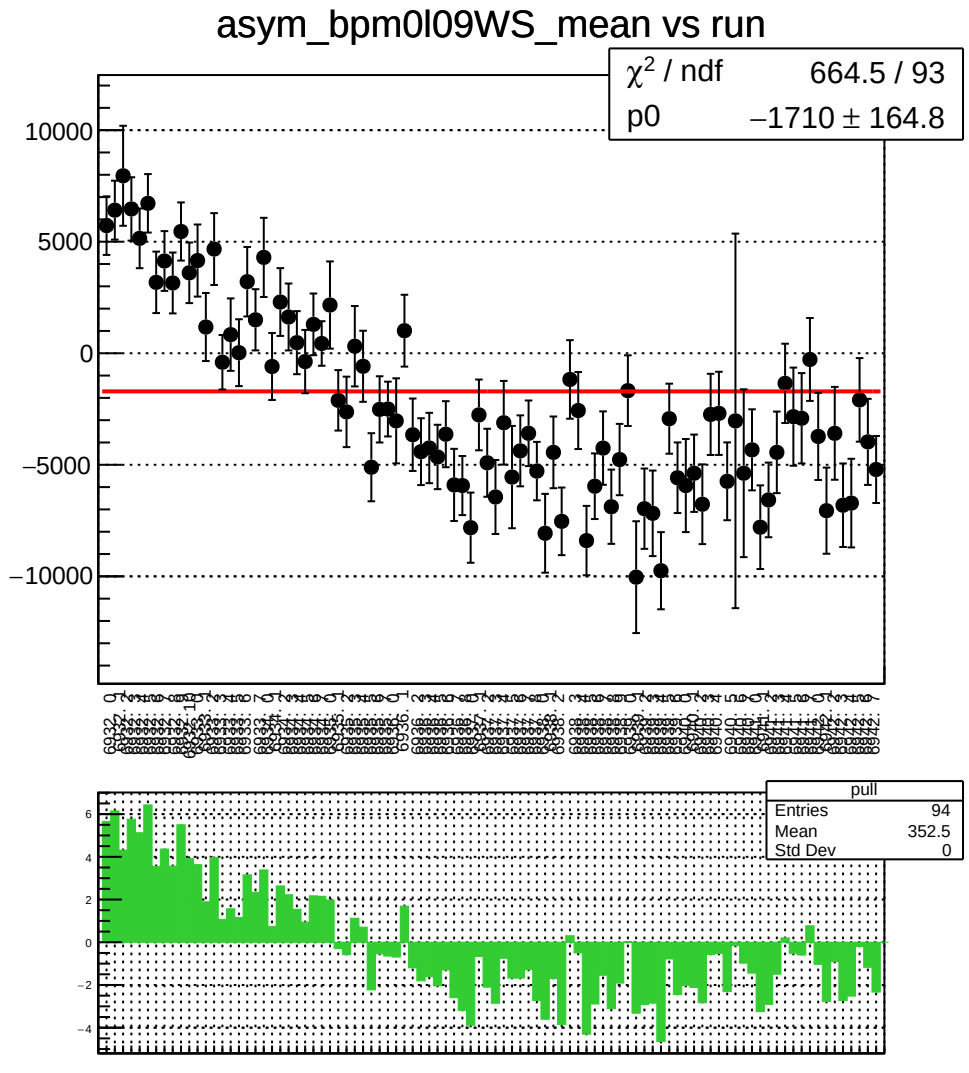

pull1D
Entries 94
Mean −0.1486
Std Dev 2.495
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

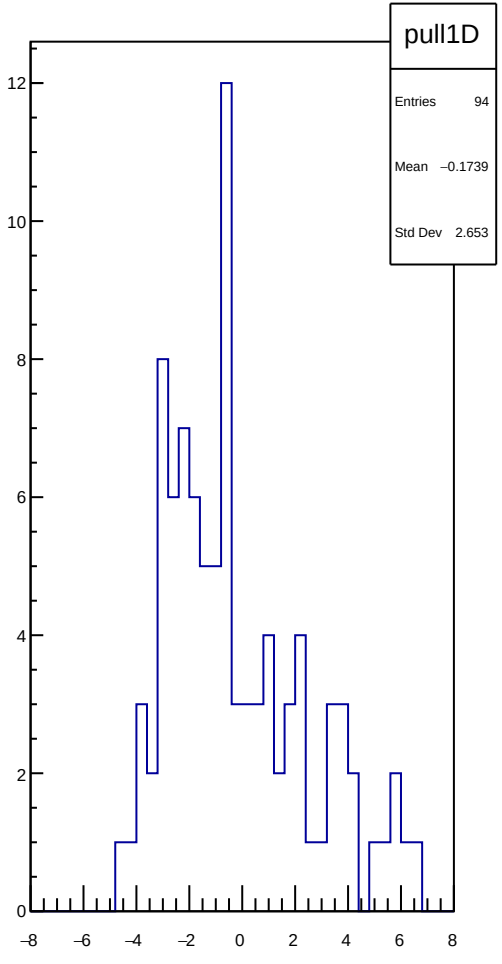

asym_bpm0l07WS_rms vs run
χ² / ndf 5.334e+04 / 93
p0 154.6 ± 0.1182
800
700
600
500
400
300
200
100

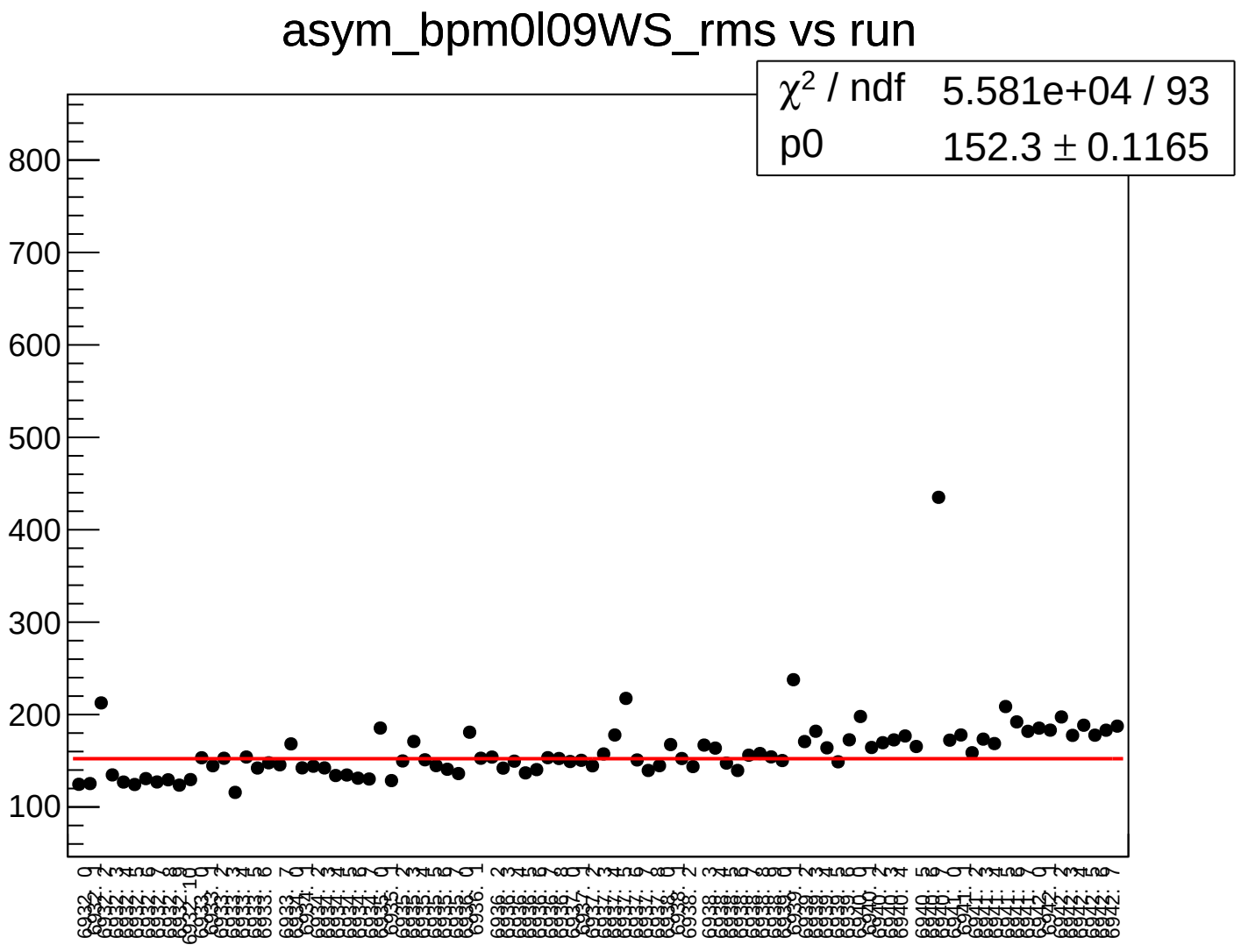

asym_bpm0l08WS_mean vs run
χ² / ndf 665.9 / 93
p0 −1610 ± 164
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 325.1
Std Dev 0
8
6
4
2
0
−2
−4

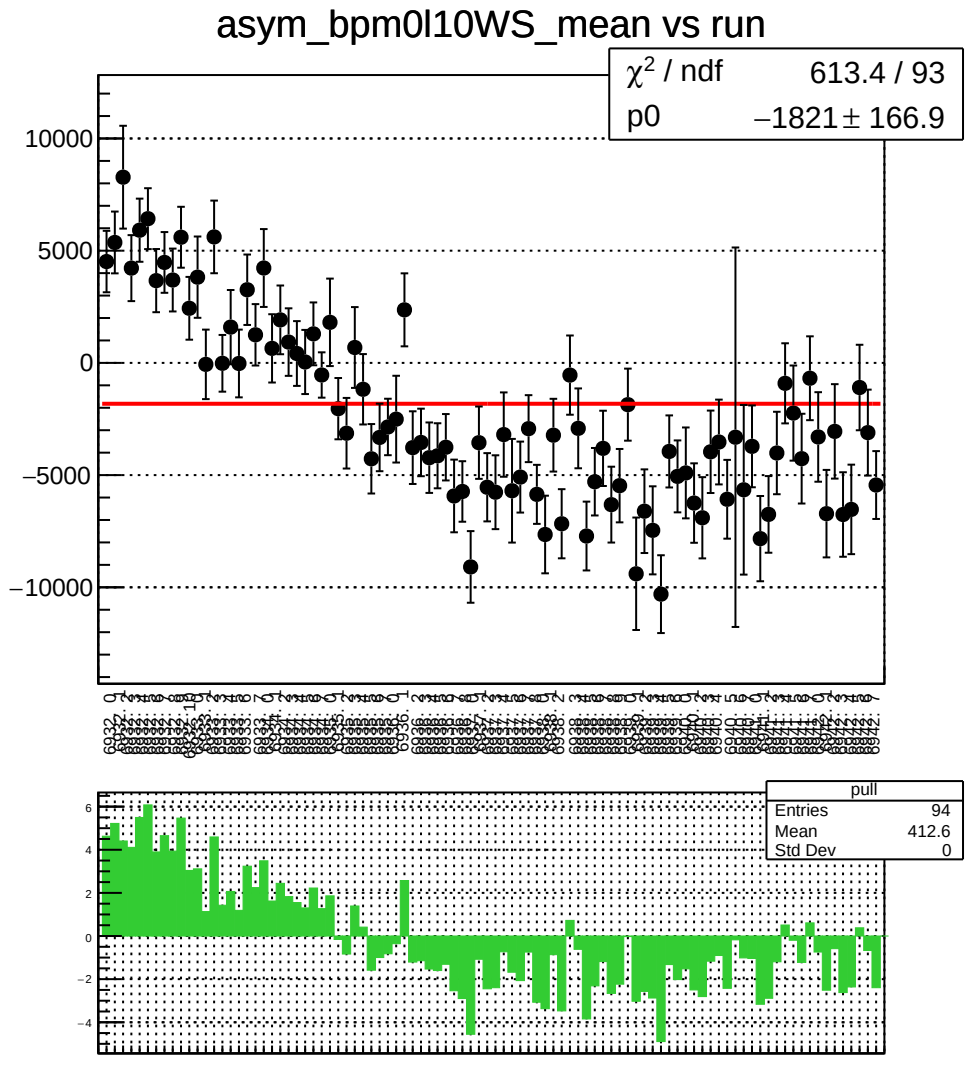

pull1D
Entries 94
Mean −0.186
Std Dev 2.655
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

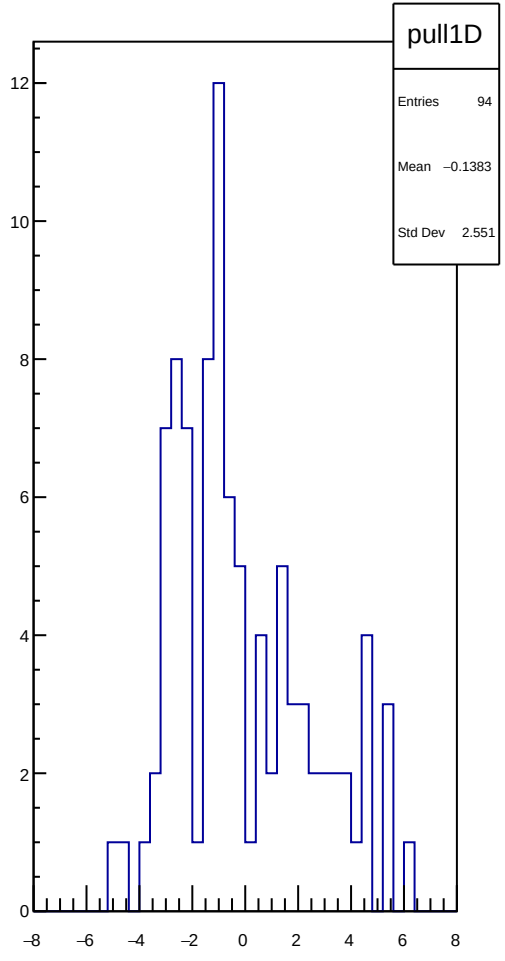

asym_bpm0l08WS_rms vs run
χ^2 / ndf 5.838e+04 / 93
p0 151.4 ± 0.1159
800
700
600
500
400
300
200
100

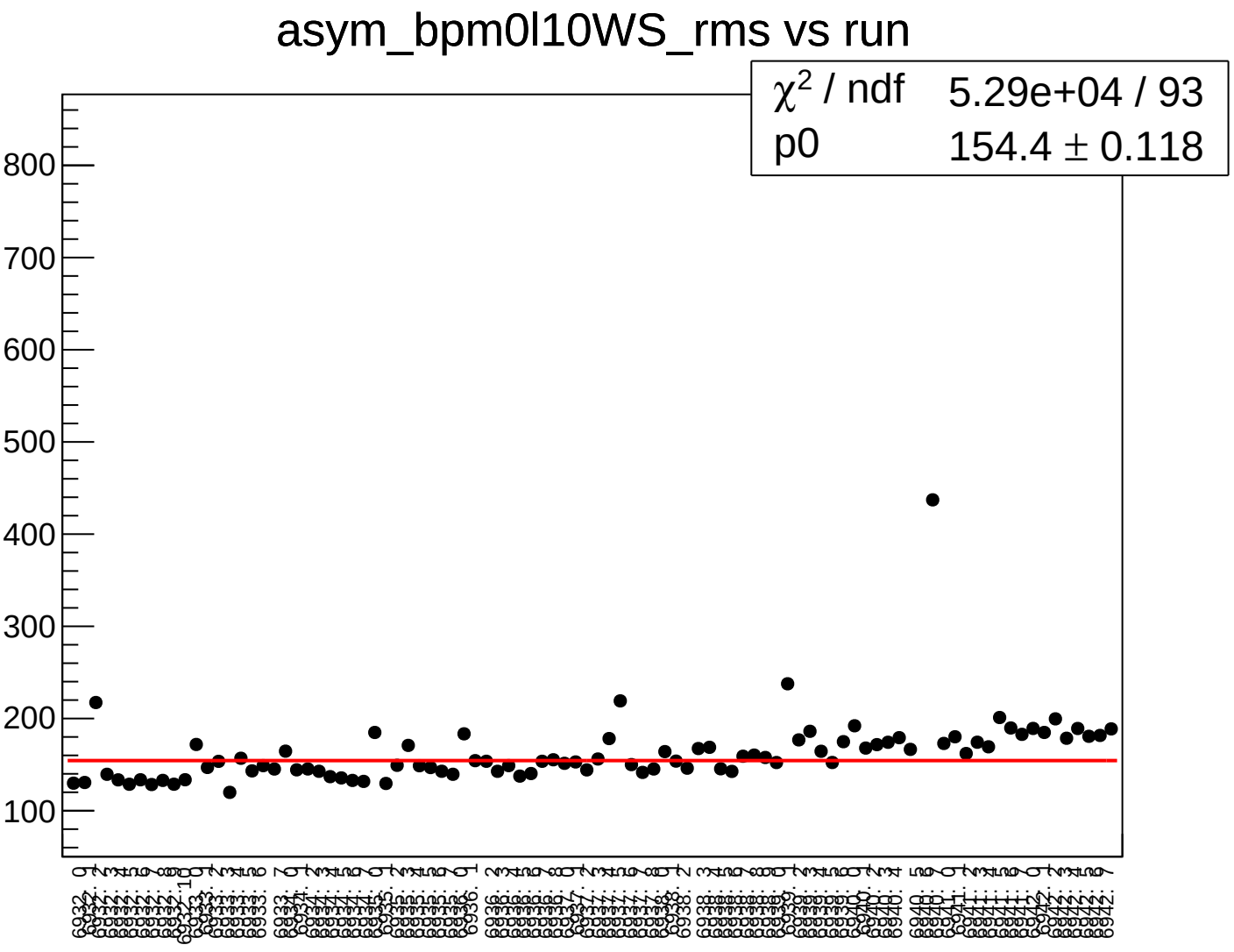

asym_bpm0l09WS_mean vs run
χ² / ndf 664.5 / 93
p0 −1710 ± 164.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 352.5
Std Dev 0
6
4
2
0
−2
−4

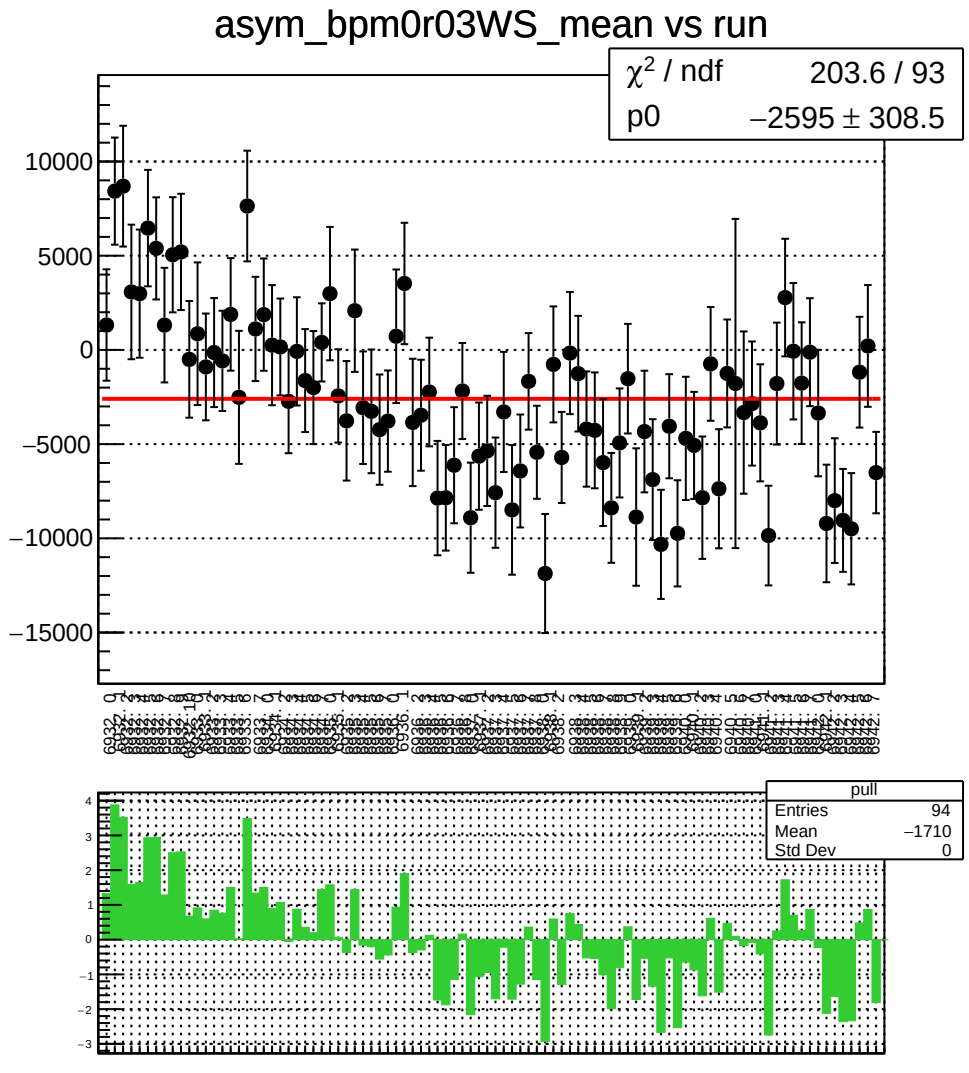

pull1D
Entries 94
Mean −0.1739
Std Dev 2.653
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

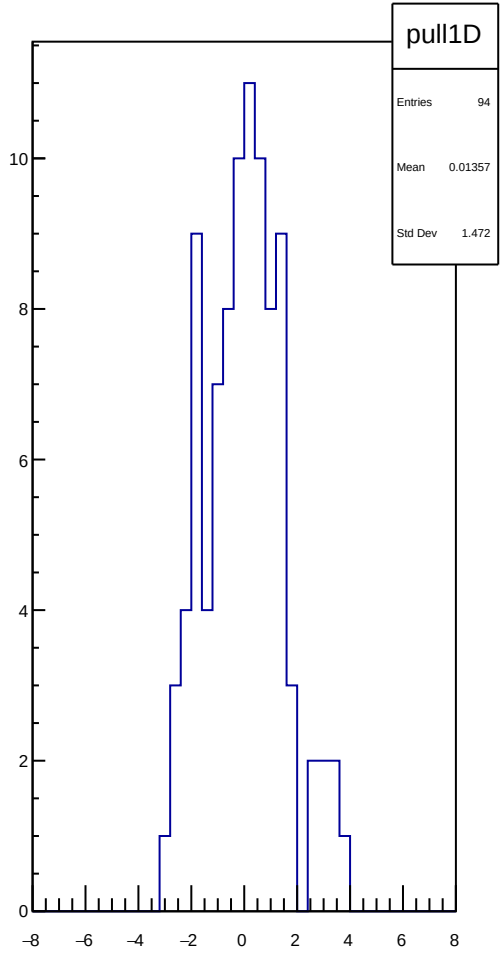

asym_bpm0l09WS_rms vs run
χ² / ndf 5.581e+04 / 93
p0 152.3 ± 0.1165
800
700
600
500
400
300
200
100

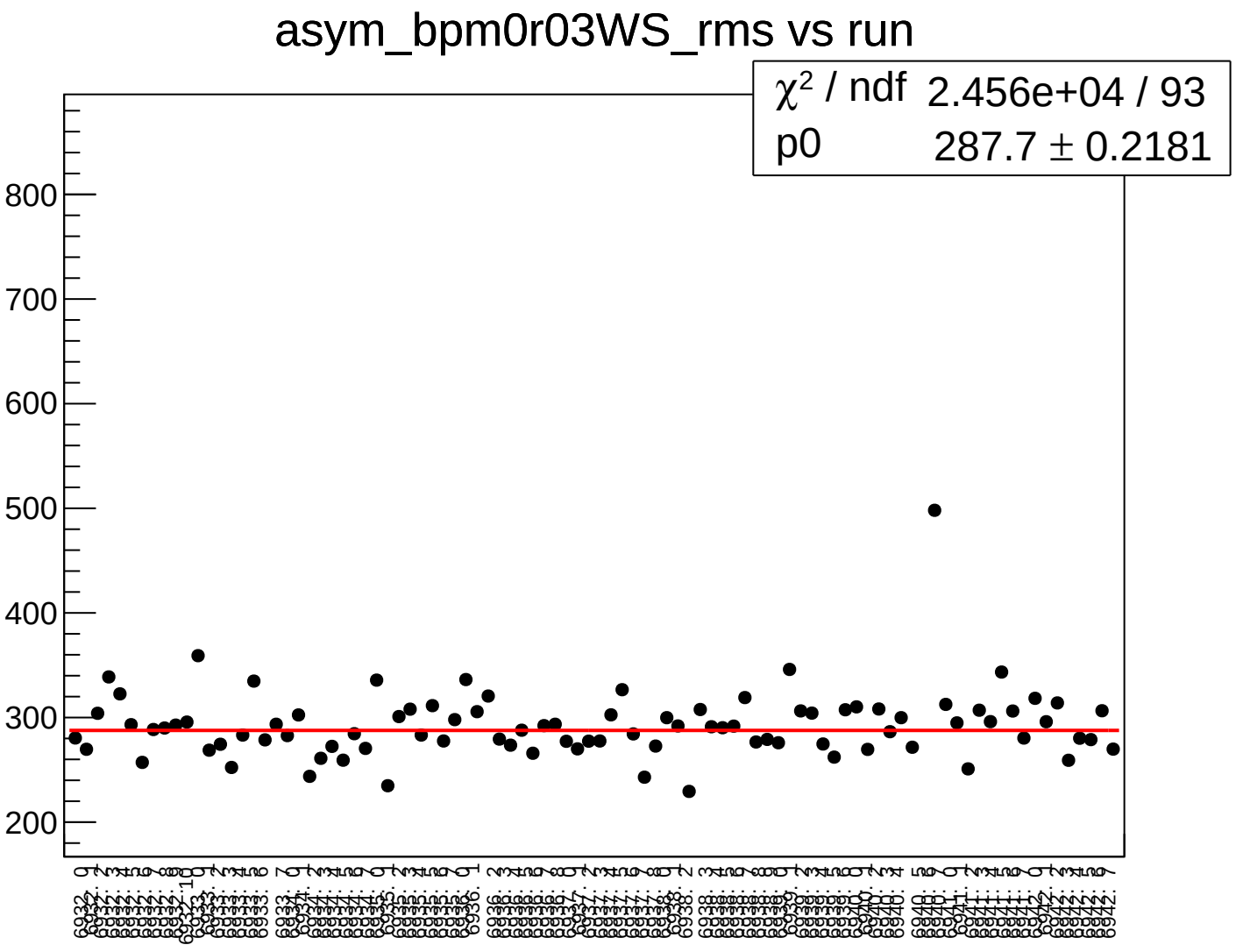

asym_bpm0l10WS_mean vs run
χ² / ndf 613.4 / 93
p0 −1821 ± 166.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 412.6
Std Dev 0
6
4
2
0
−2
−4

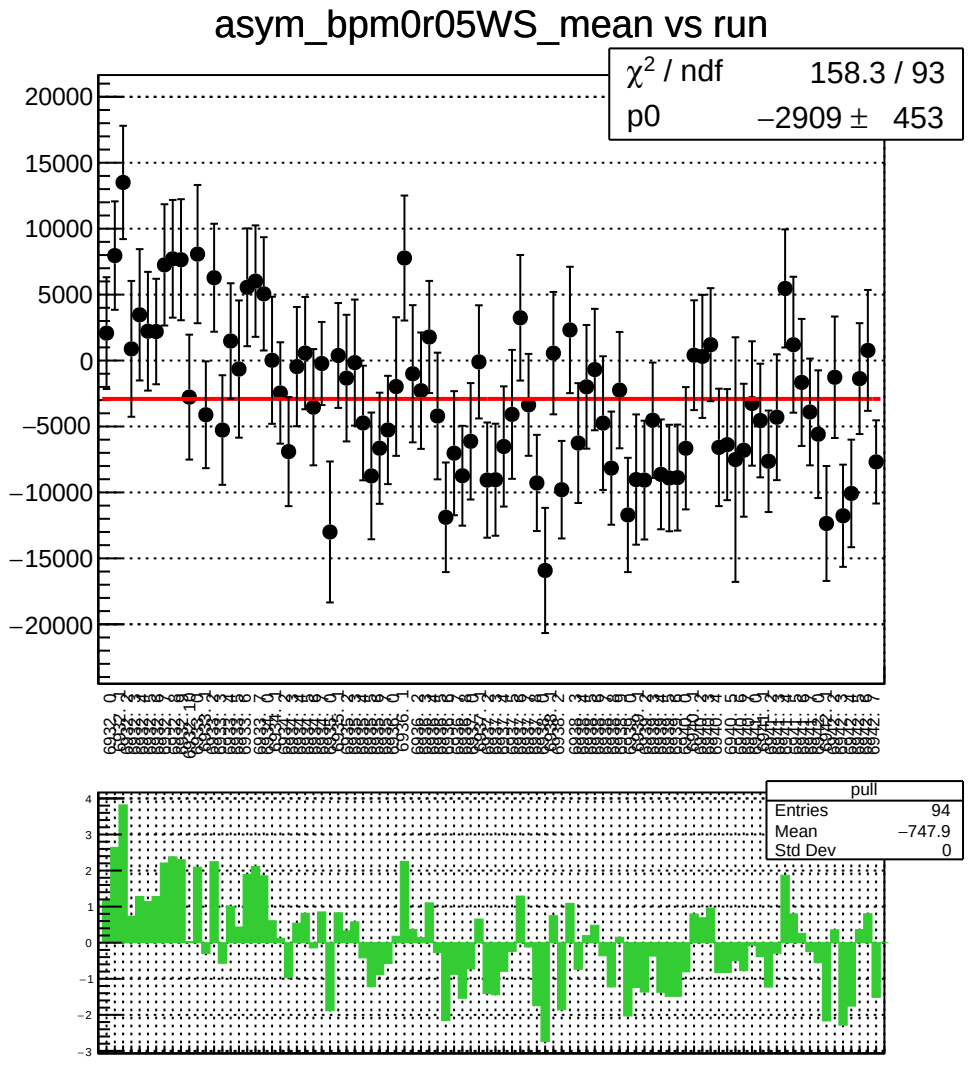

pull1D
Entries 94
Mean −0.1383
Std Dev 2.551
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

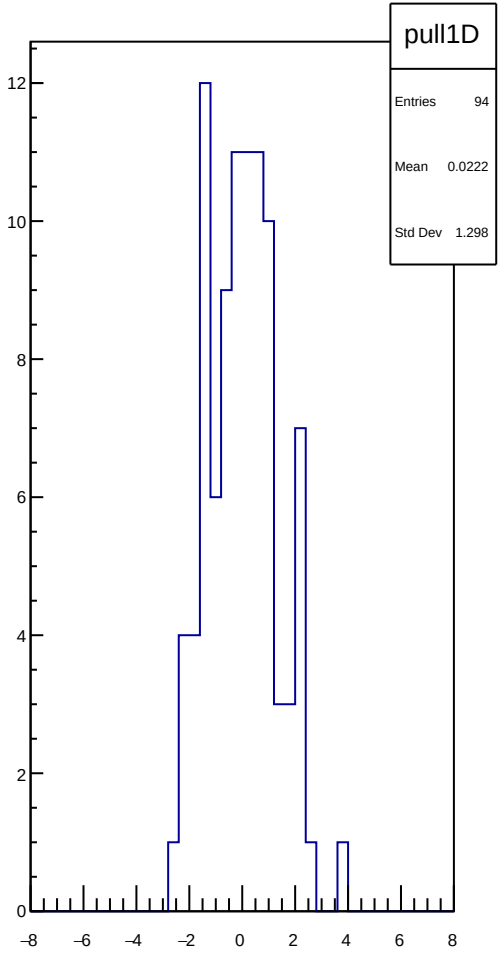

asym_bpm0l10WS_rms vs run
χ^2 / ndf 5.29e+04 / 93
p0 154.4 ± 0.118
800
700
600
500
400
300
200
100

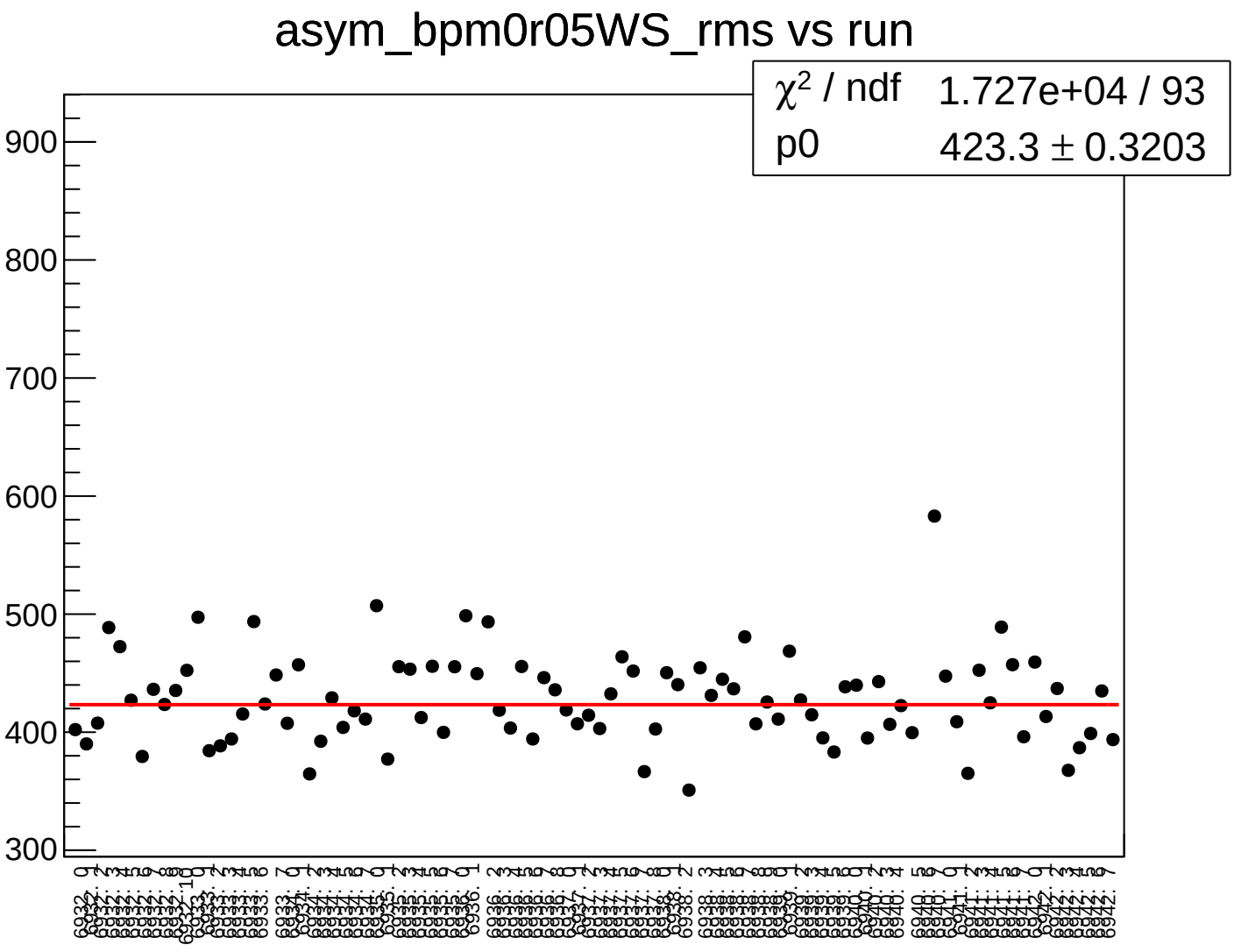

asym_bpm0r03WS_mean vs run
χ² / ndf 203.6 / 93
p0 −2595 ± 308.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −1710
Std Dev 0
4
3
2
1
0
−1
−2
−3

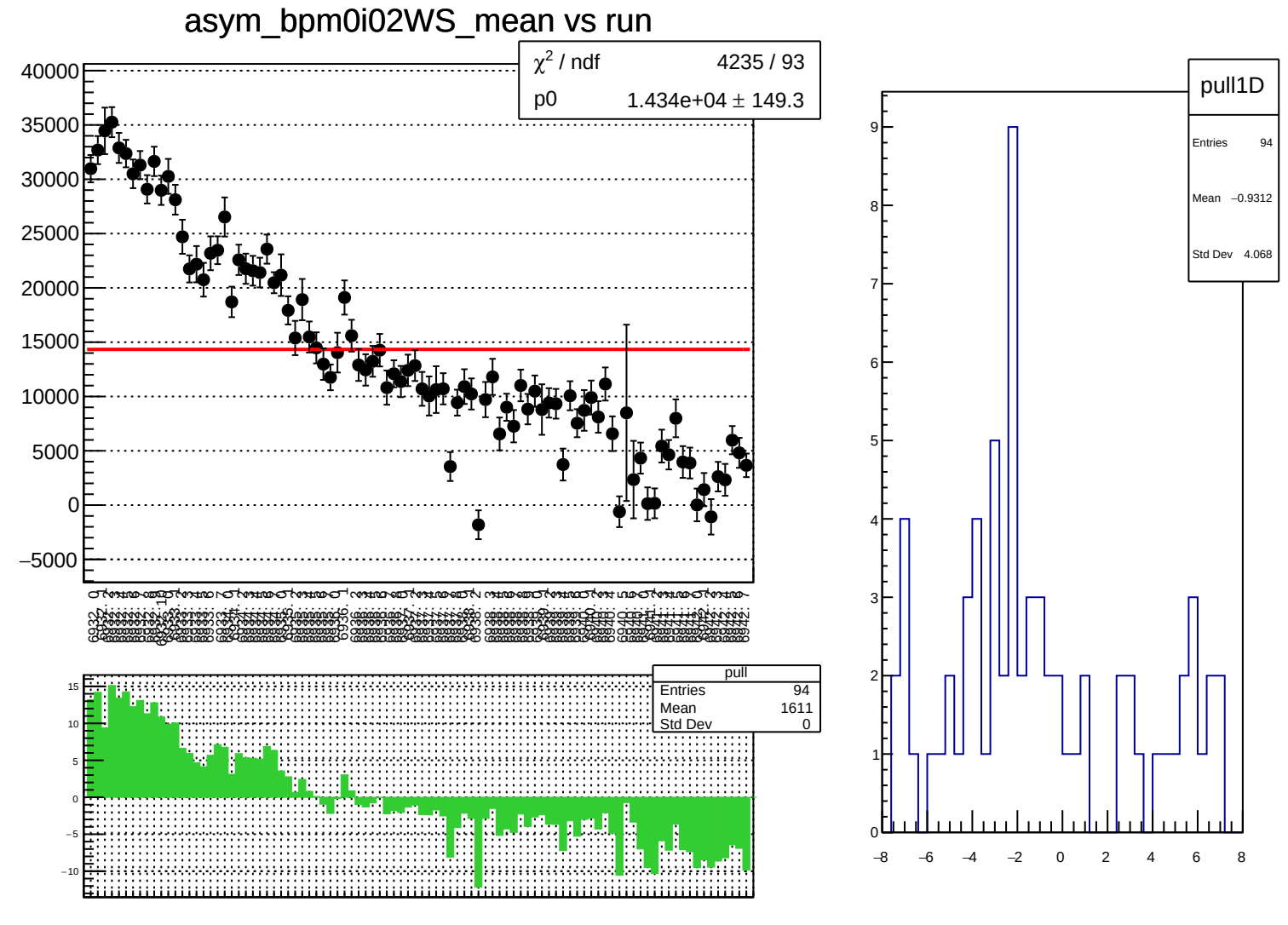

pull1D
Entries 94
Mean 0.01357
Std Dev 1.472
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

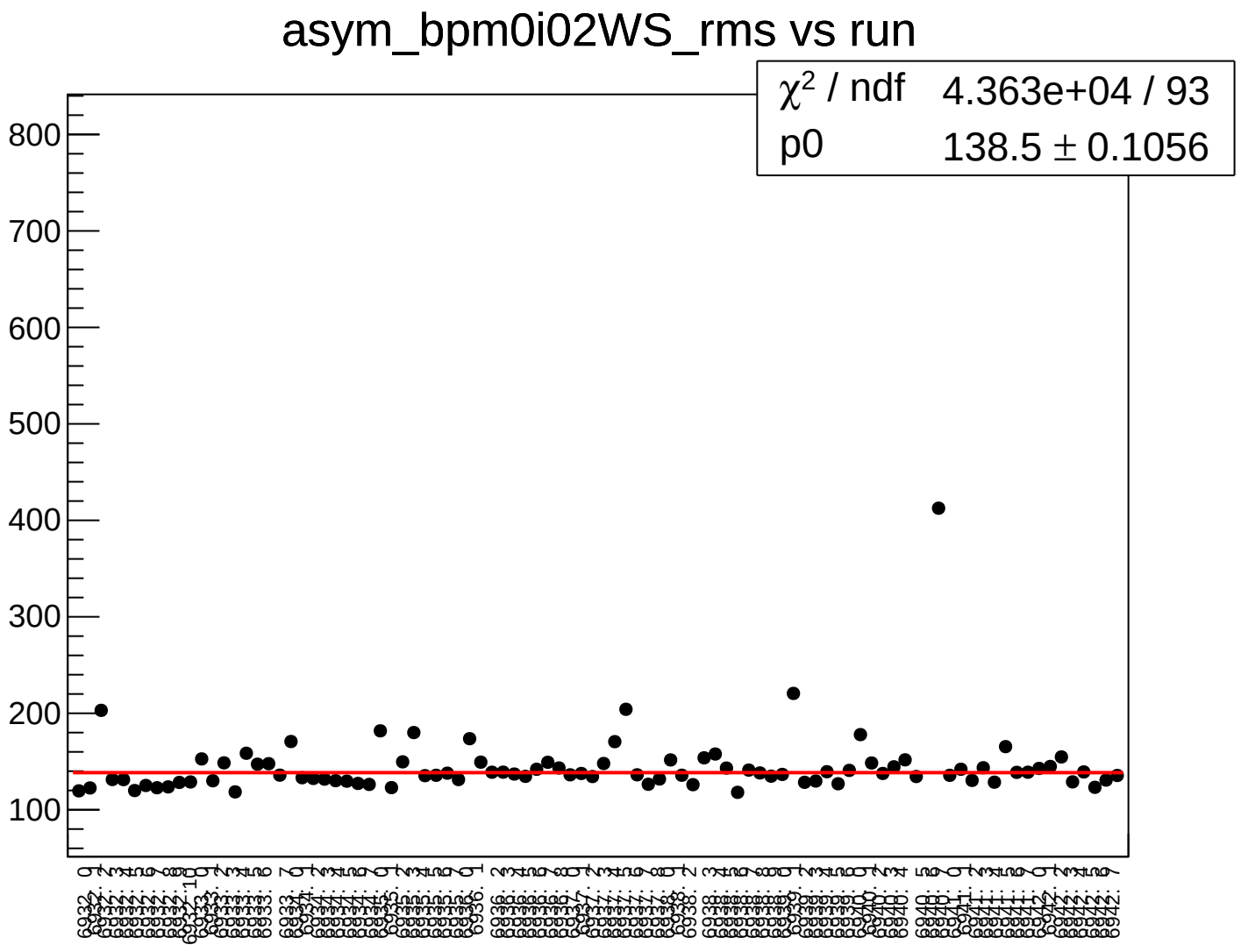

asym_bpm0r03WS_rms vs run
χ² / ndf 2.456e+04 / 93
p0 287.7 ± 0.2181
800
700
600
500
400
300
200

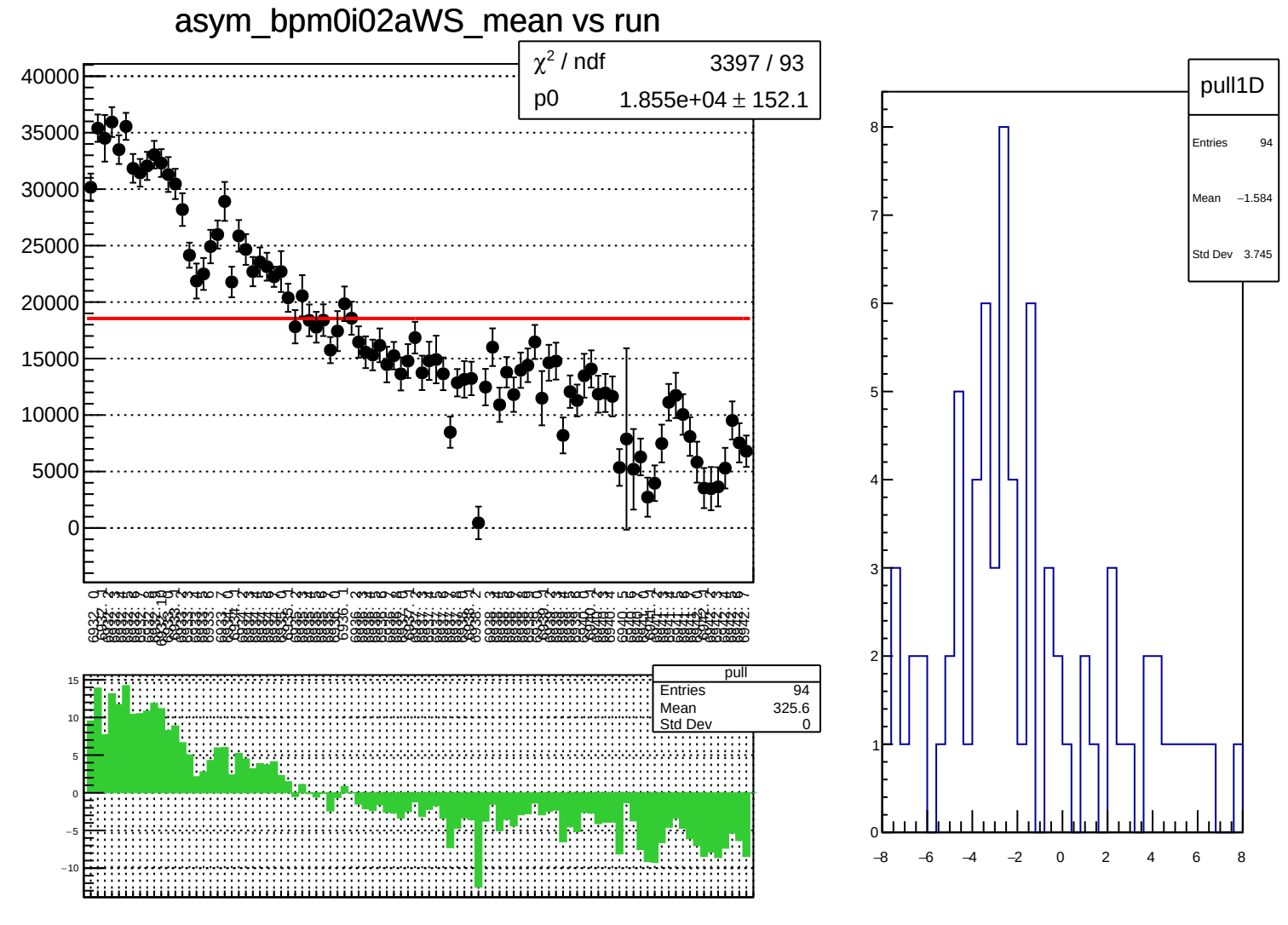

asym_bpm0r05WS_mean vs run
χ² / ndf 158.3 / 93
p0 −2909 ± 453
pull
Entries 94
Mean −747.9
Std Dev 0

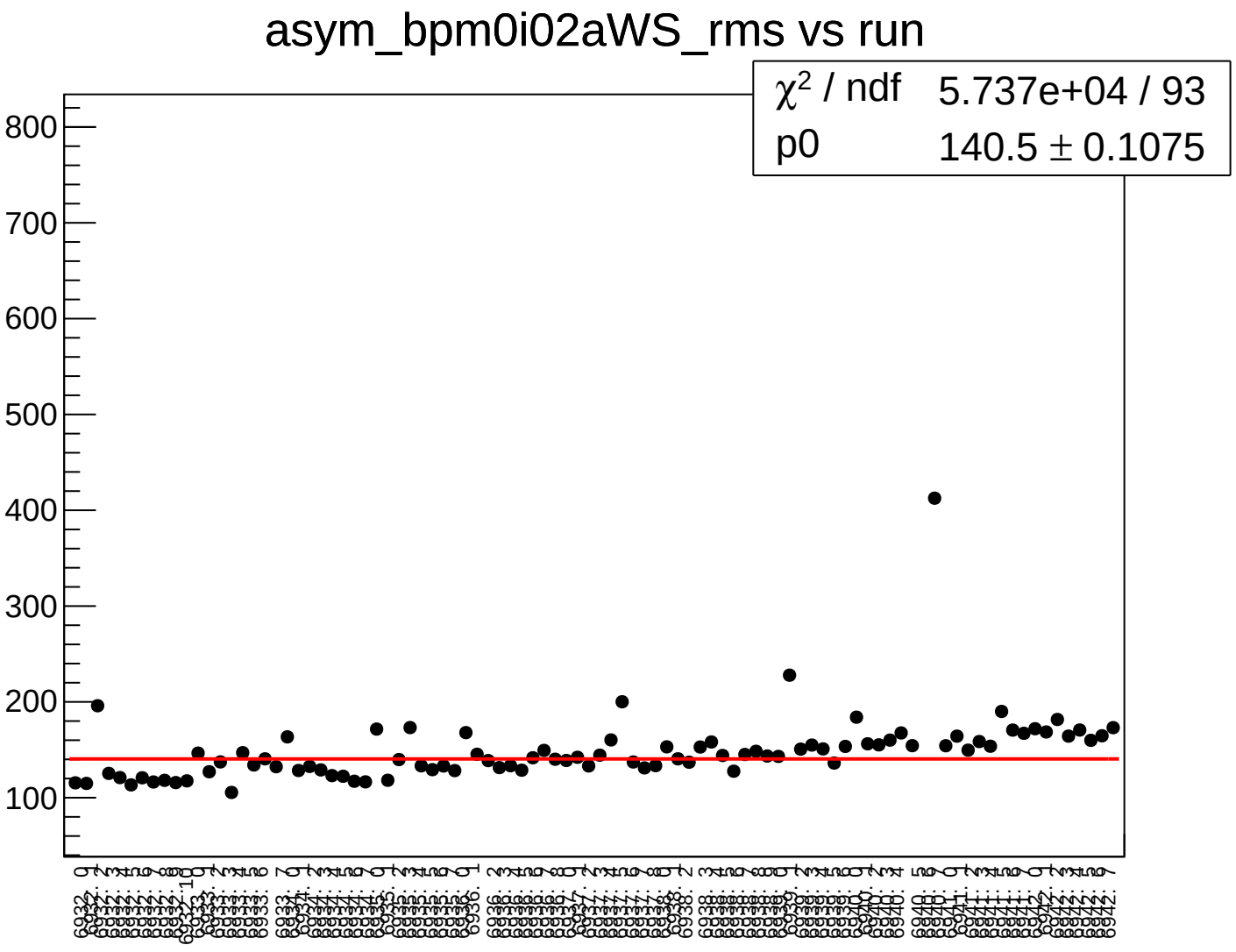

pull1D
Entries 94
Mean 0.0222
Std Dev 1.298

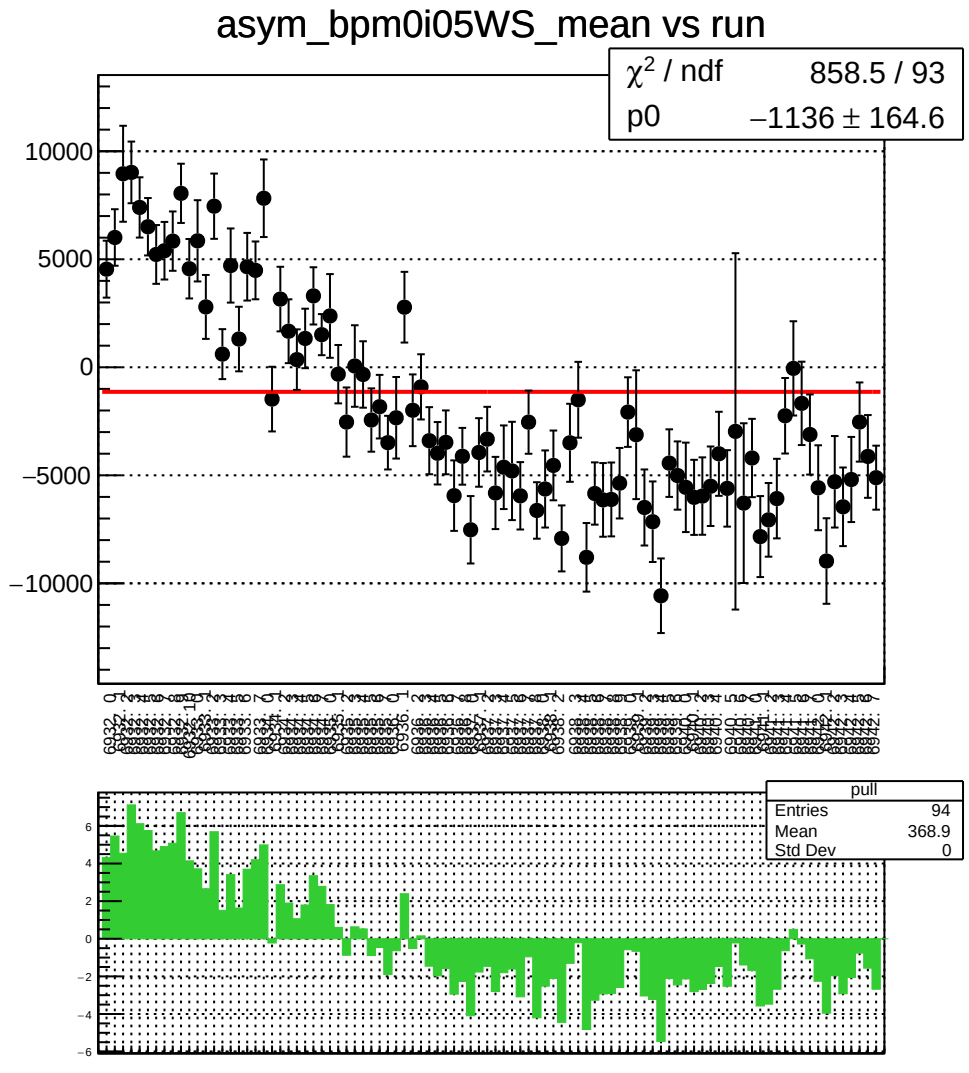

asym_bpm0r05WS_rms vs run
χ² / ndf 1.727e+04 / 93
p0 423.3 ± 0.3203
900
800
700
600
500
400
300

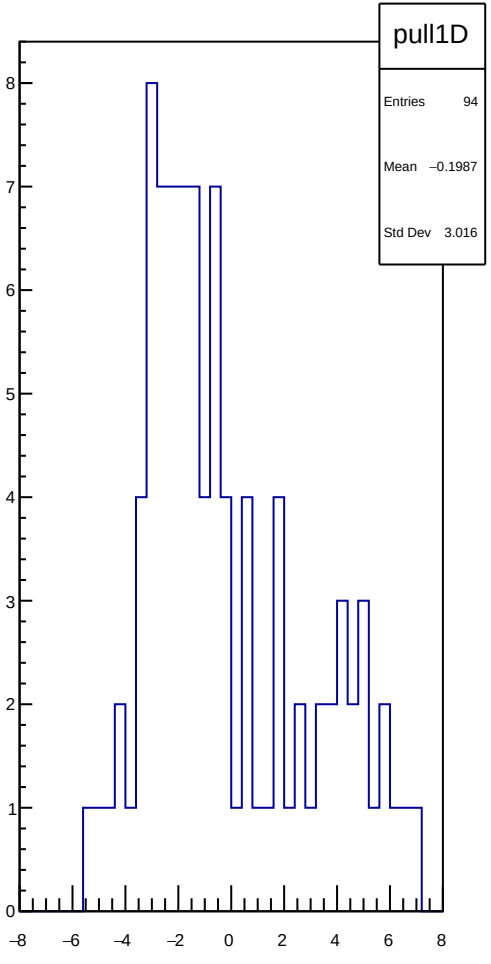

asym_bpm0i02WS_mean vs run
χ² / ndf 4235 / 93
p0 1.434e+04 ± 149.3
pull
Entries 94
Mean 1611
Std Dev 0
pull1D
Entries 94
Mean −0.9312
Std Dev 4.068

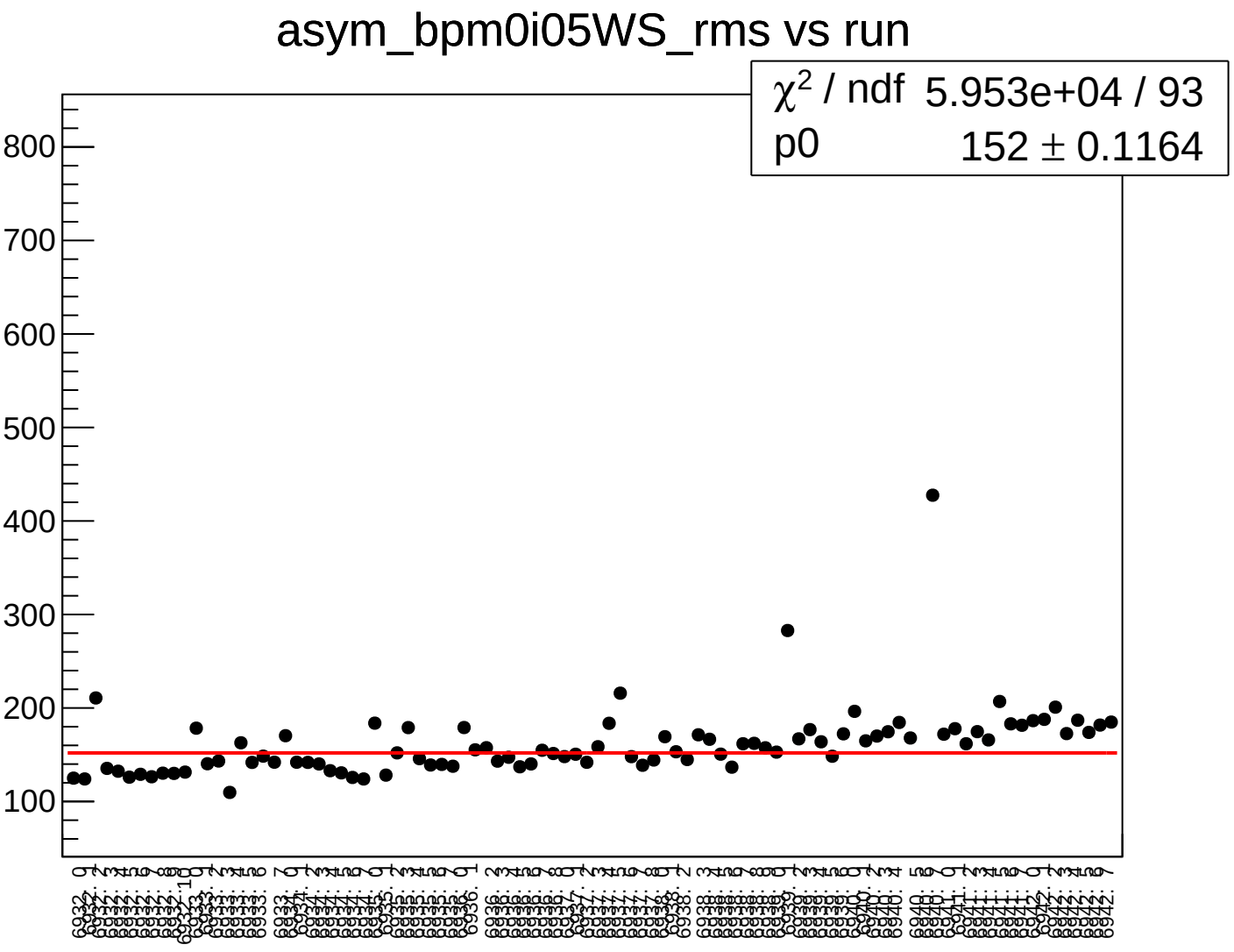

asym_bpm0i02WS_rms vs run
χ^2 / ndf 4.363e+04 / 93
p0 138.5 ± 0.1056
800
700
600
500
400
300
200
100

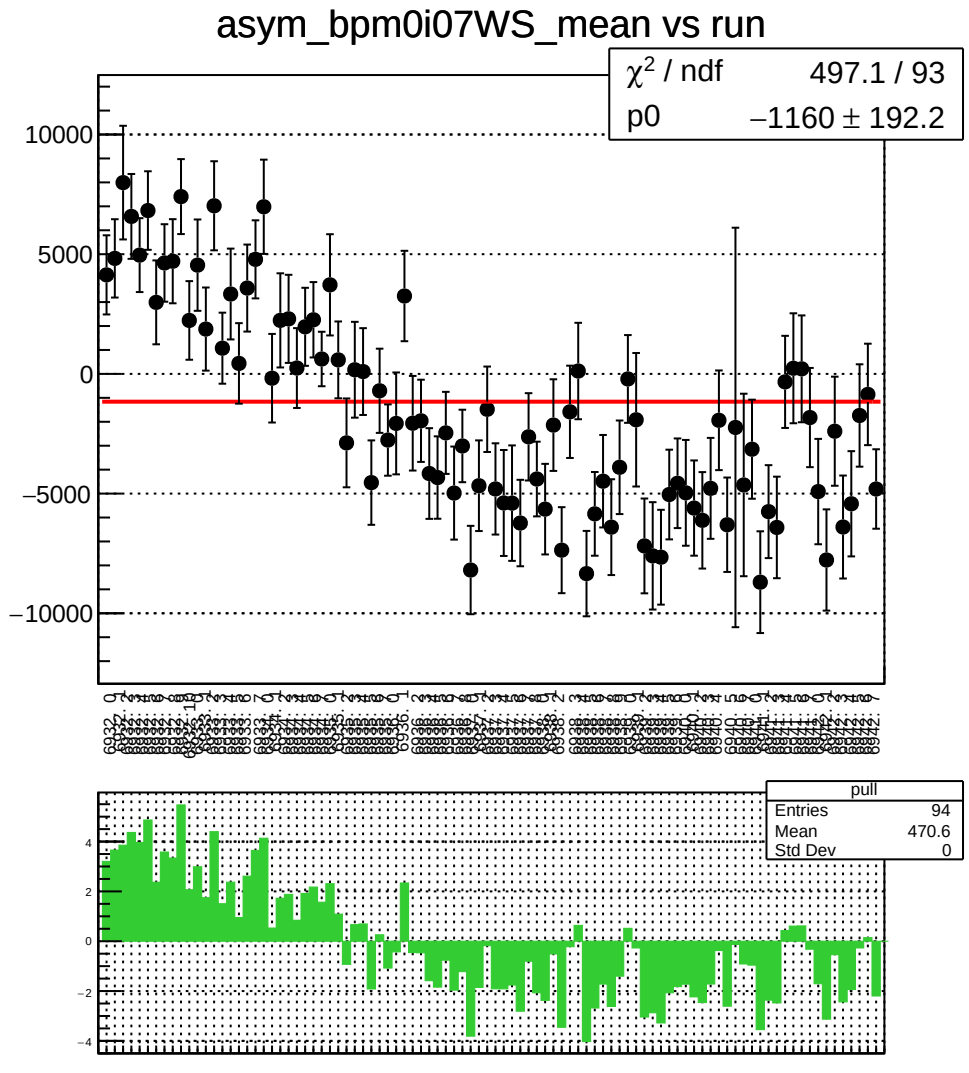

asym_bpm0i02aWS_mean vs run
χ² / ndf 3397 / 93
p0 1.855e+04 ± 152.1
pull
Entries 94
Mean 325.6
Std Dev 0
pull1D
Entries 94
Mean −1.584
Std Dev 3.745

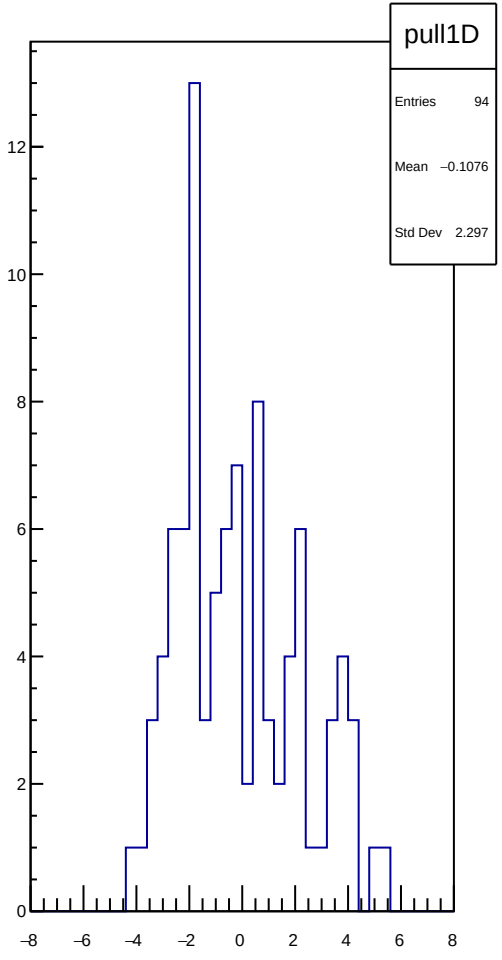

asym_bpm0i02aWS_rms vs run
χ^2 / ndf 5.737e+04 / 93
p0 140.5 ± 0.1075
800
700
600
500
400
300
200
100

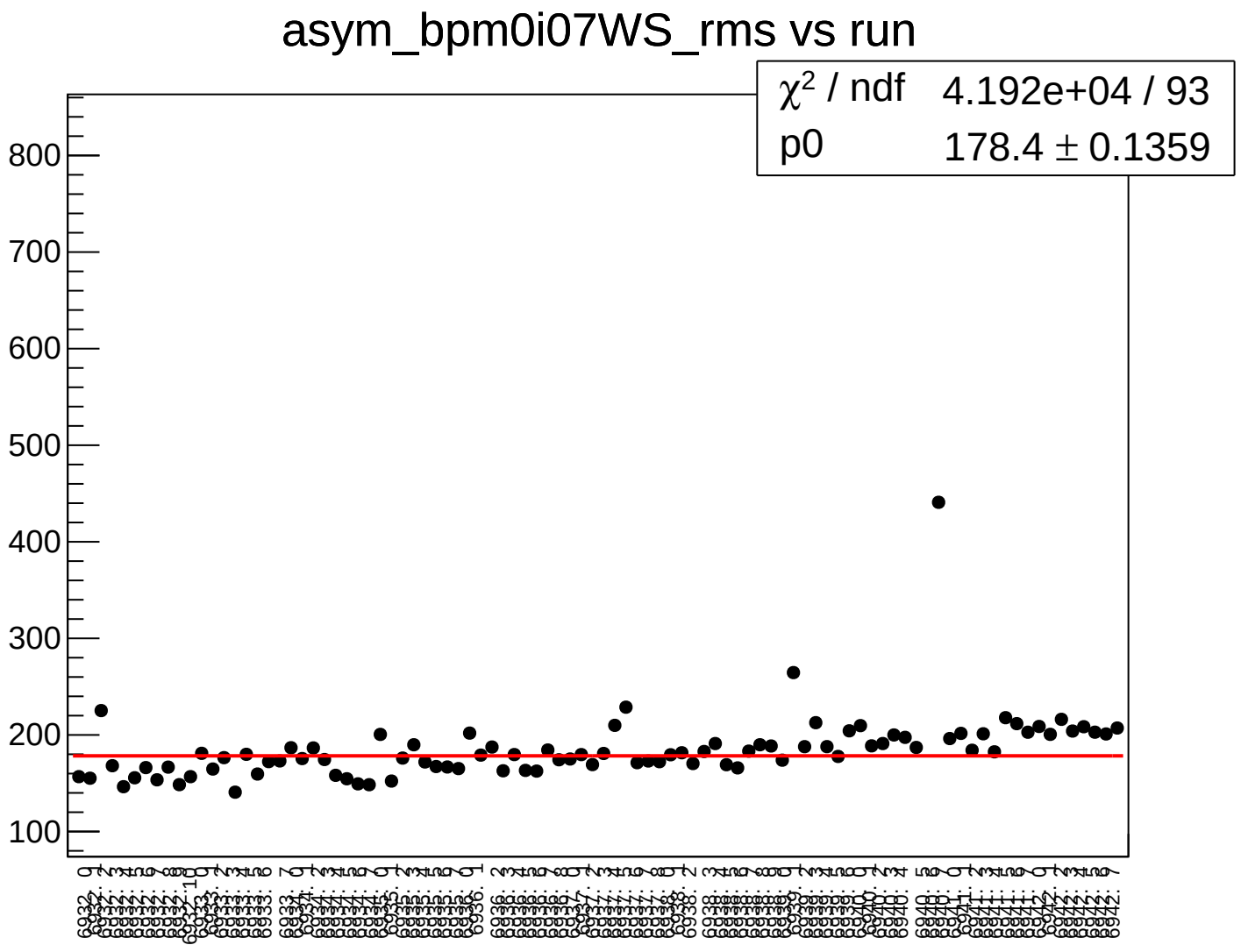

asym_bpm0i05WS_mean vs run
χ² / ndf 858.5 / 93
p0 −1136 ± 164.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 368.9
Std Dev 0
6
4
2
0
−2
−4
−6

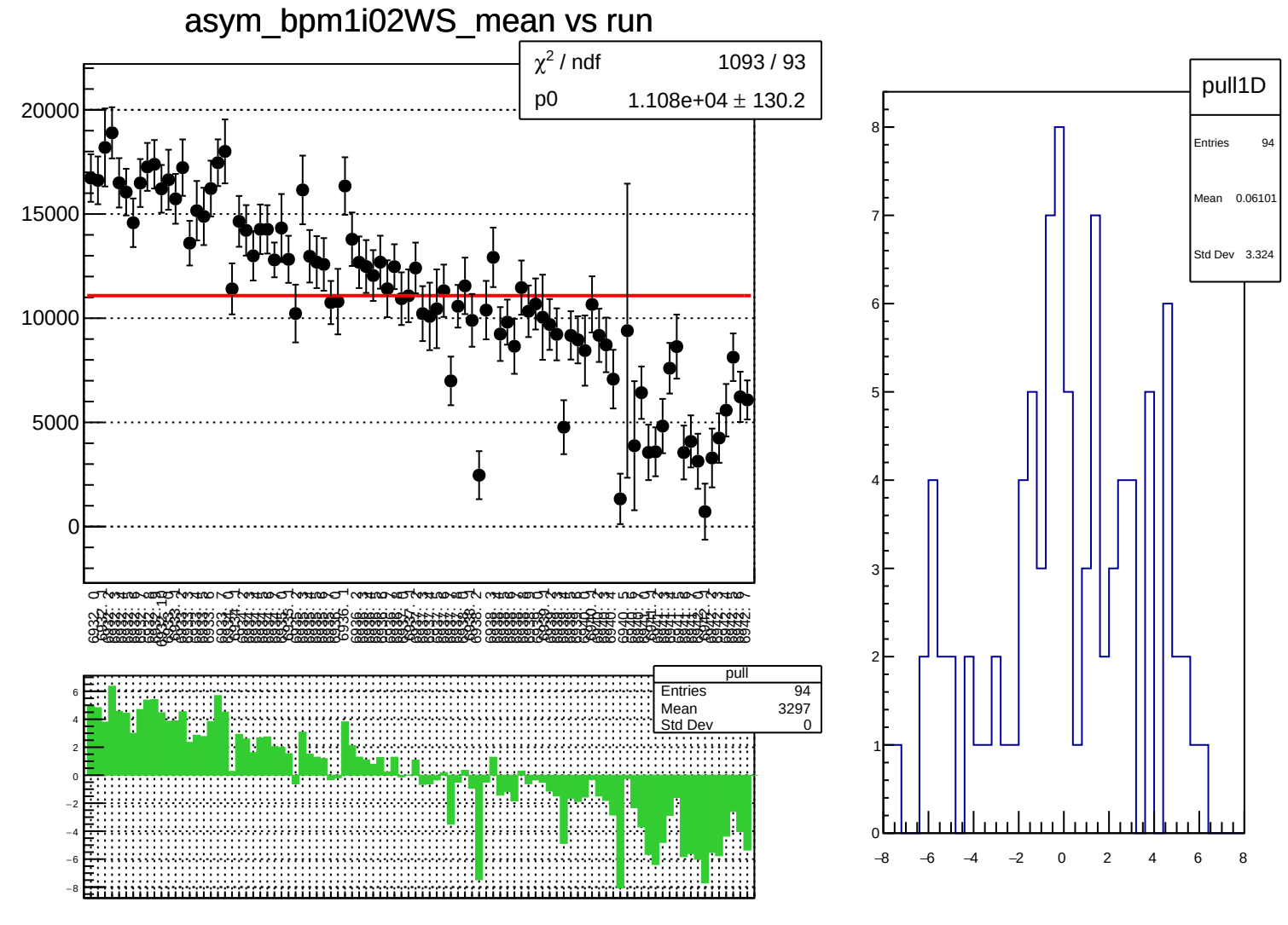

pull1D
Entries 94
Mean −0.1987
Std Dev 3.016
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

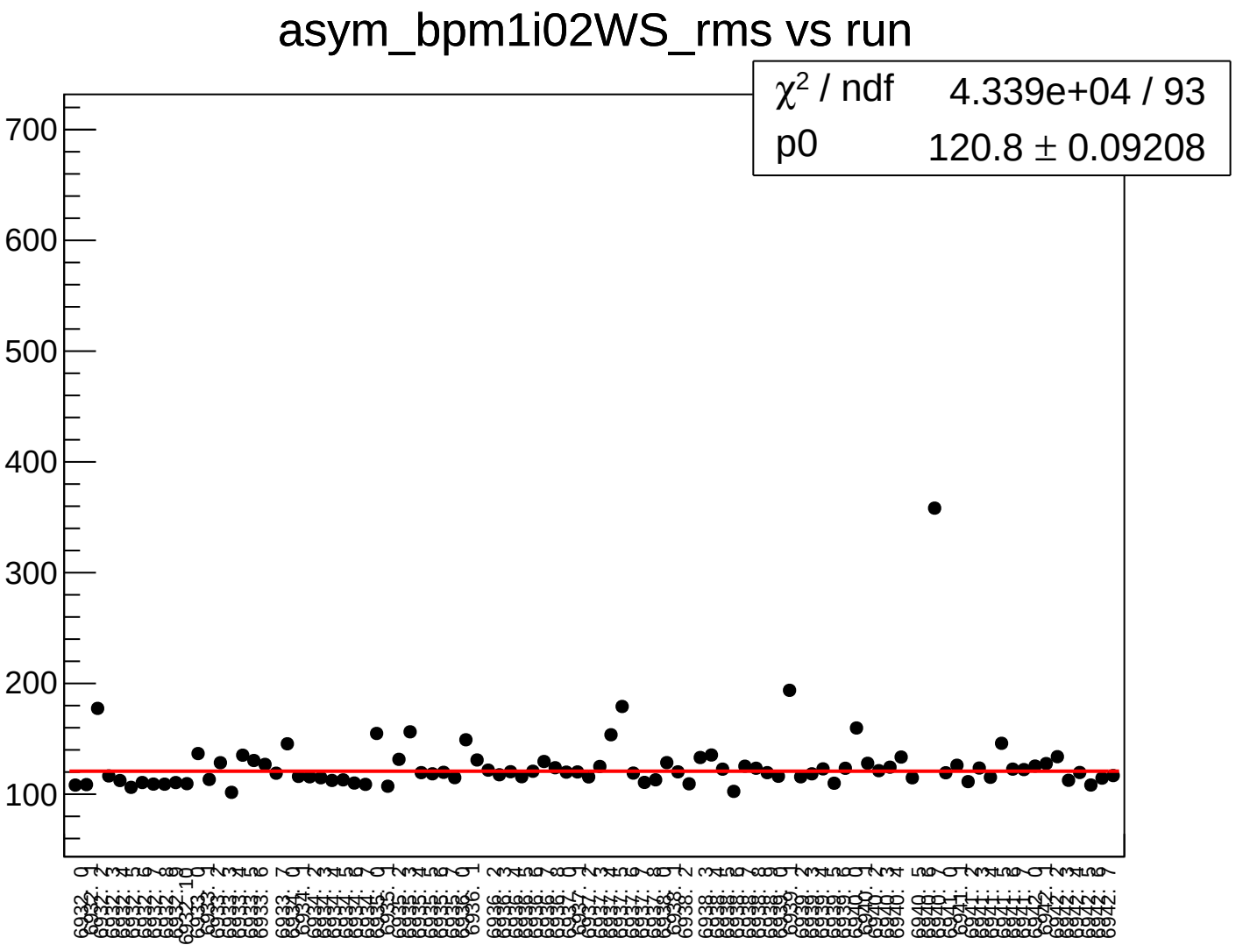

asym_bpm0i05WS_rms vs run
χ^2 / ndf 5.953e+04 / 93
p0 152 ± 0.1164
800
700
600
500
400
300
200
100

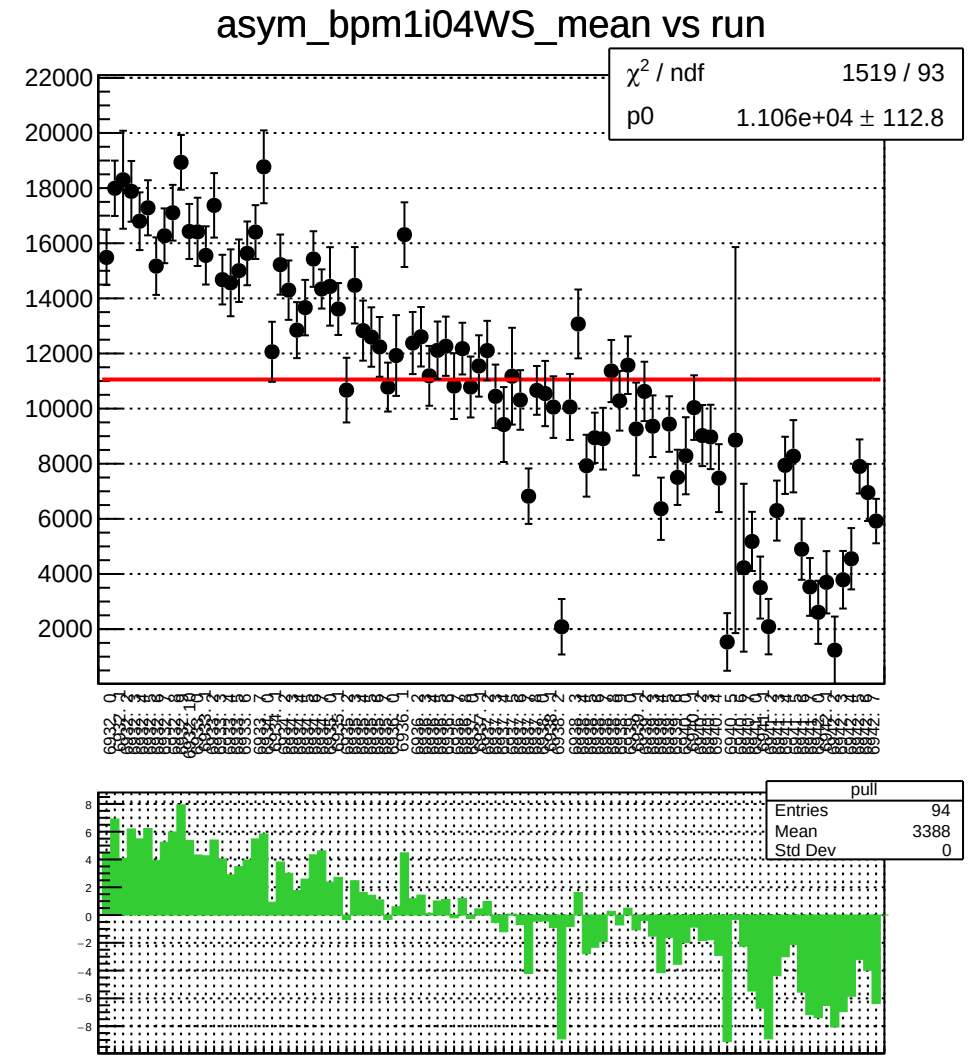

asym_bpm0i07WS_mean vs run
χ² / ndf 497.1 / 93
p0 −1160 ± 192.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 470.6
Std Dev 0
4
2
0
−2
−4

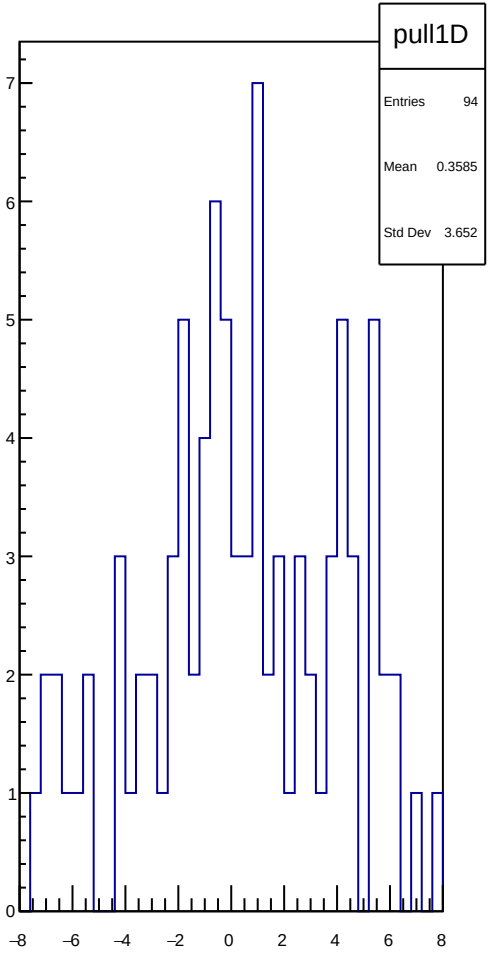

pull1D
Entries 94
Mean −0.1076
Std Dev 2.297
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

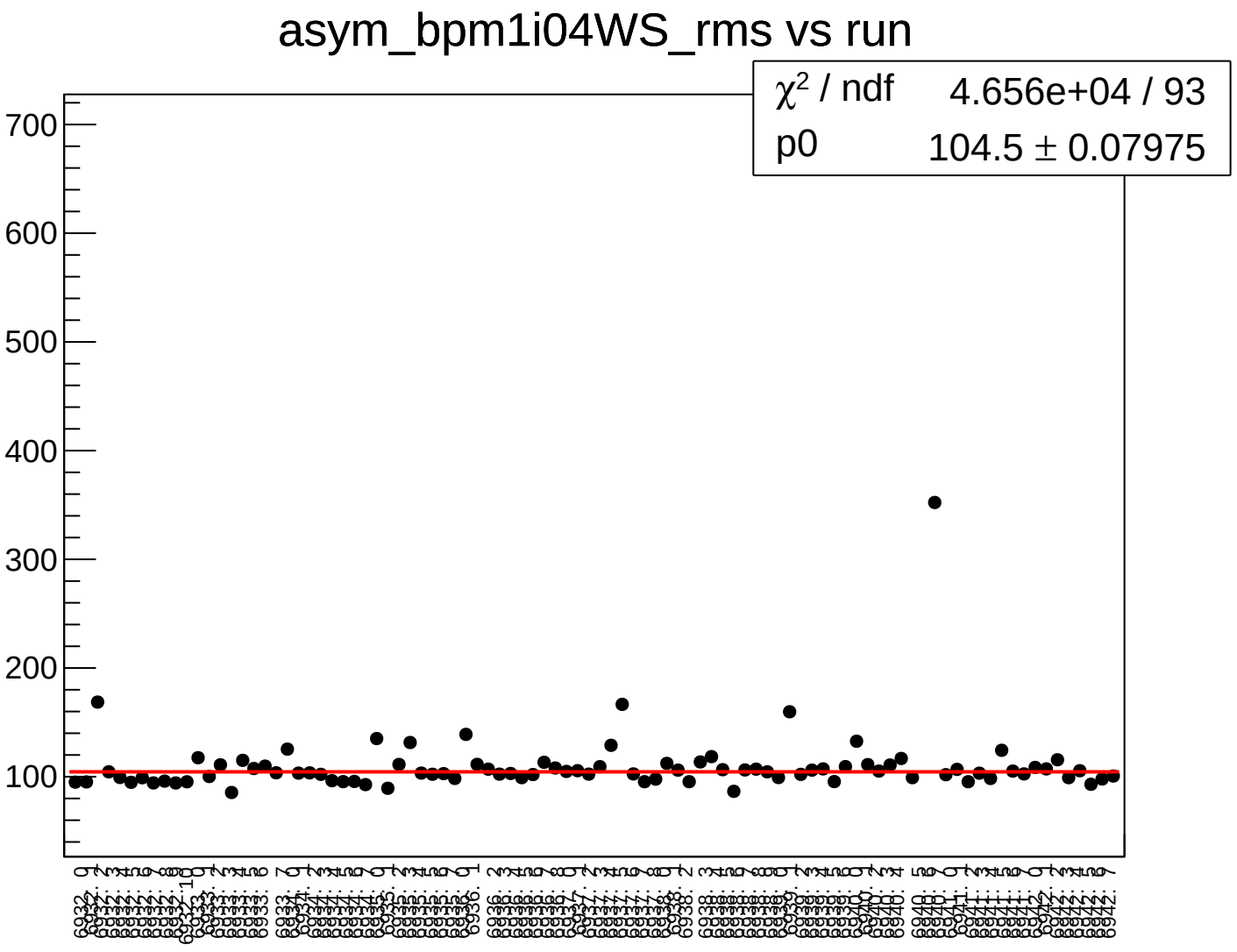

asym_bpm0i07WS_rms vs run
χ² / ndf 4.192e+04 / 93
p0 178.4 ± 0.1359
800
700
600
500
400
300
200
100

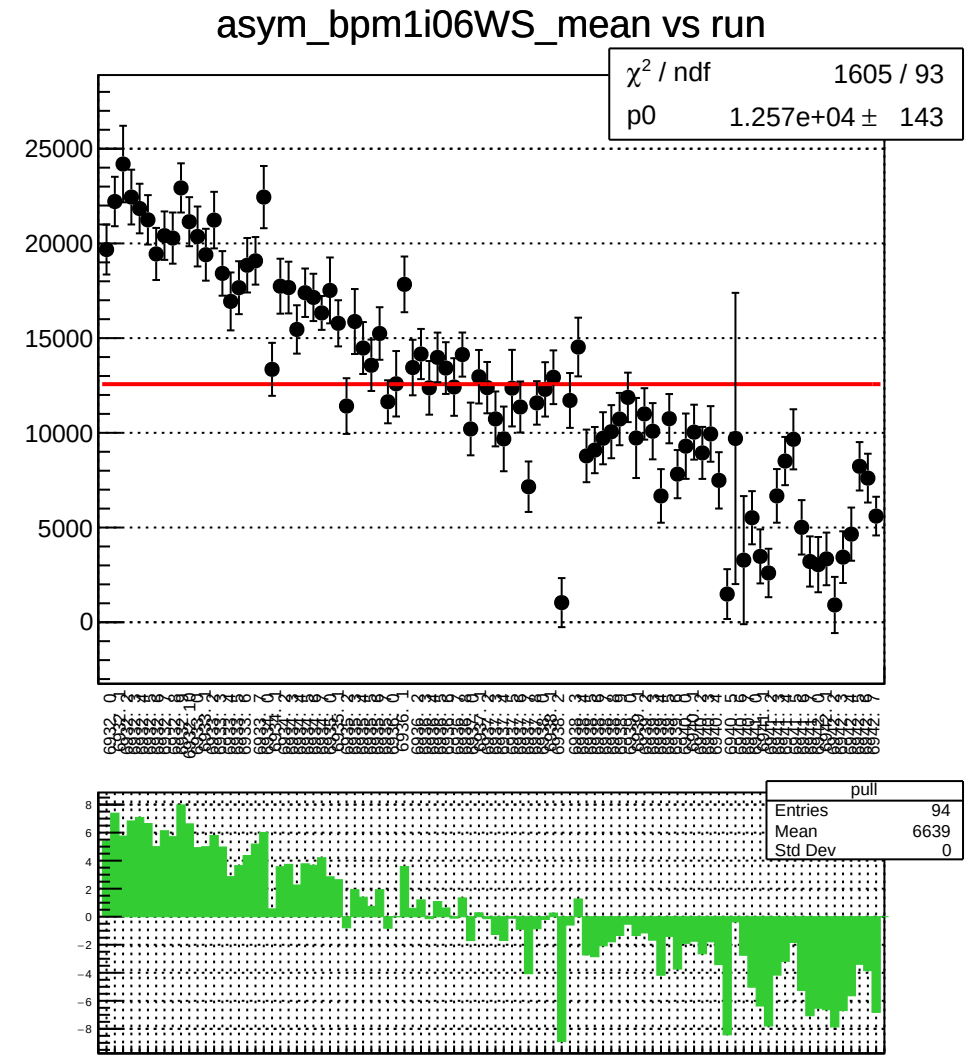

asym_bpm1i02WS_mean vs run
χ² / ndf 1093 / 93
p0 1.108e+04 ± 130.2
20000
15000
10000
5000
0
pull
Entries 94
Mean 3297
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 94
Mean 0.06101
Std Dev 3.324
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

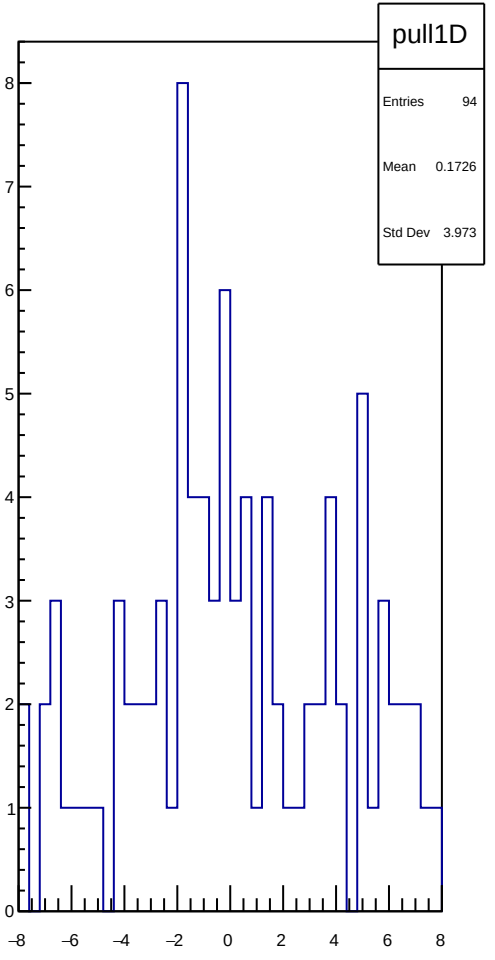

asym_bpm1i02WS_rms vs run
χ² / ndf 4.339e+04 / 93
p0 120.8 ± 0.09208
700
600
500
400
300
200
100

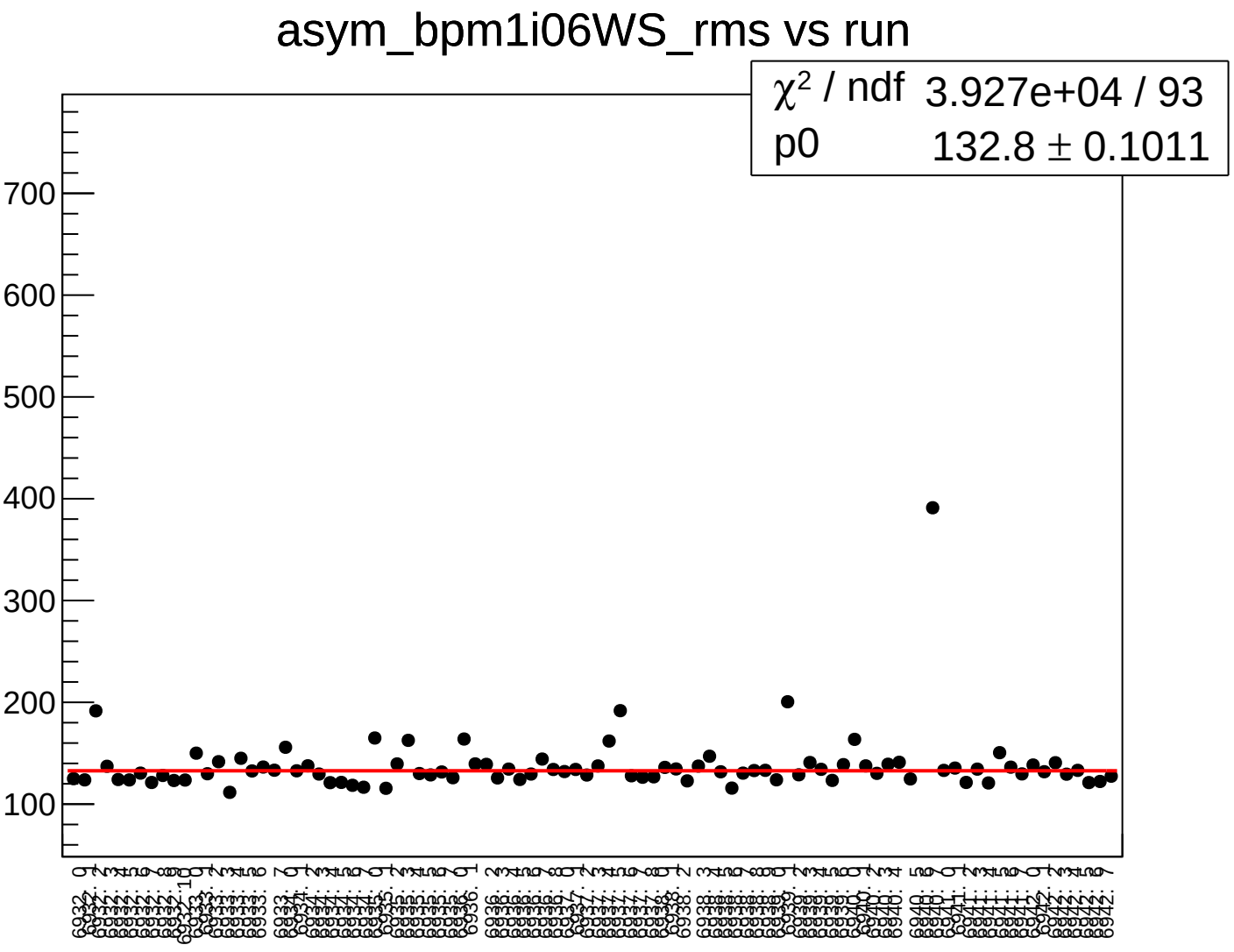

asym_bpm1i04WS_mean vs run
χ² / ndf 1519 / 93
p0 1.106e+04 ± 112.8
pull
Entries 94
Mean 3388
Std Dev 0

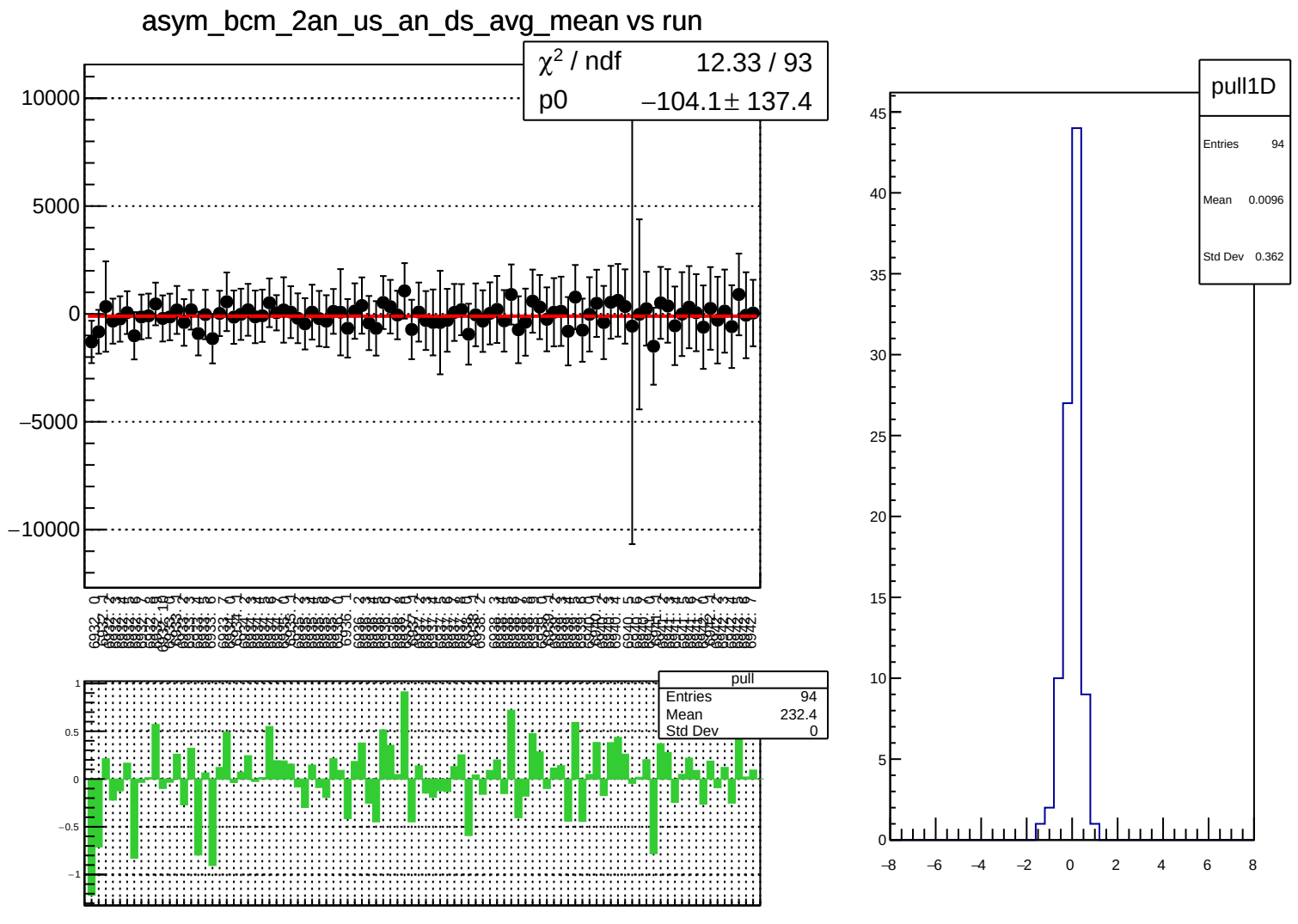

pull1D
Entries 94
Mean 0.3585
Std Dev 3.652

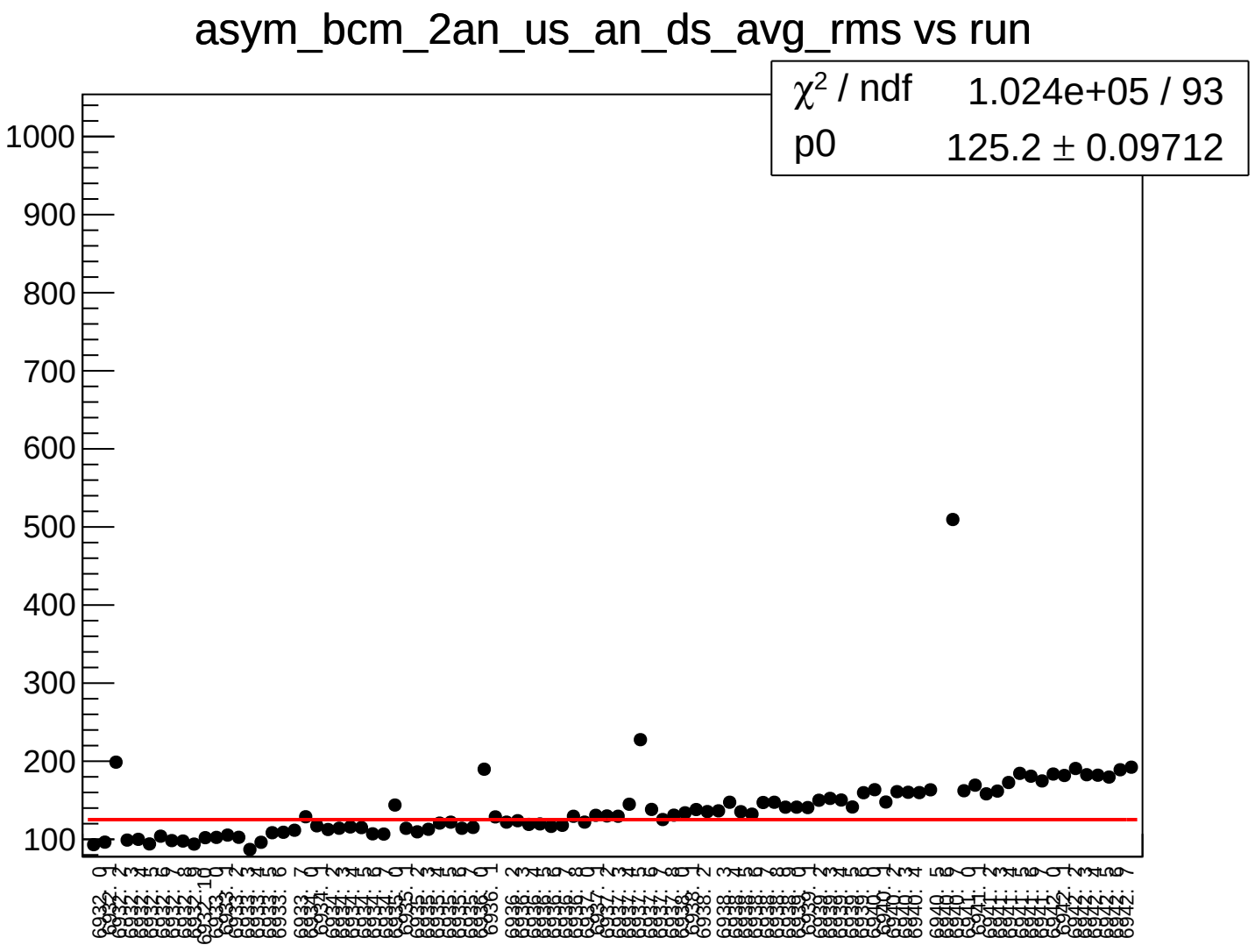

asym_bpm1i04WS_rms vs run
χ^2 / ndf 4.656e+04 / 93
p0 104.5 ± 0.07975
700
600
500
400
300
200
100

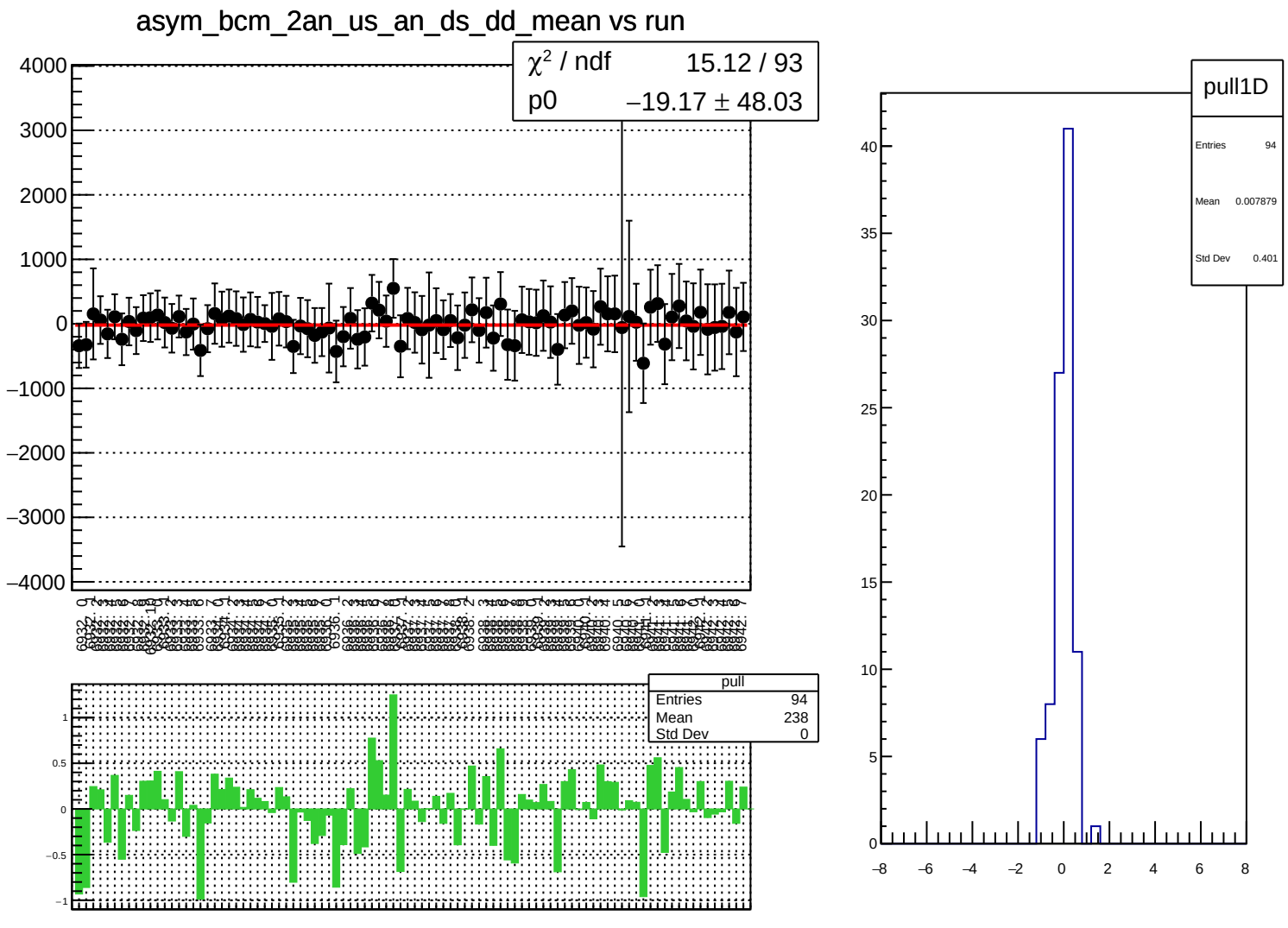

asym_bpm1i06WS_mean vs run
χ² / ndf 1605 / 93
p0 1.257e+04 ± 143
25000
20000
15000
10000
5000
0
pull
Entries 94
Mean 6639
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

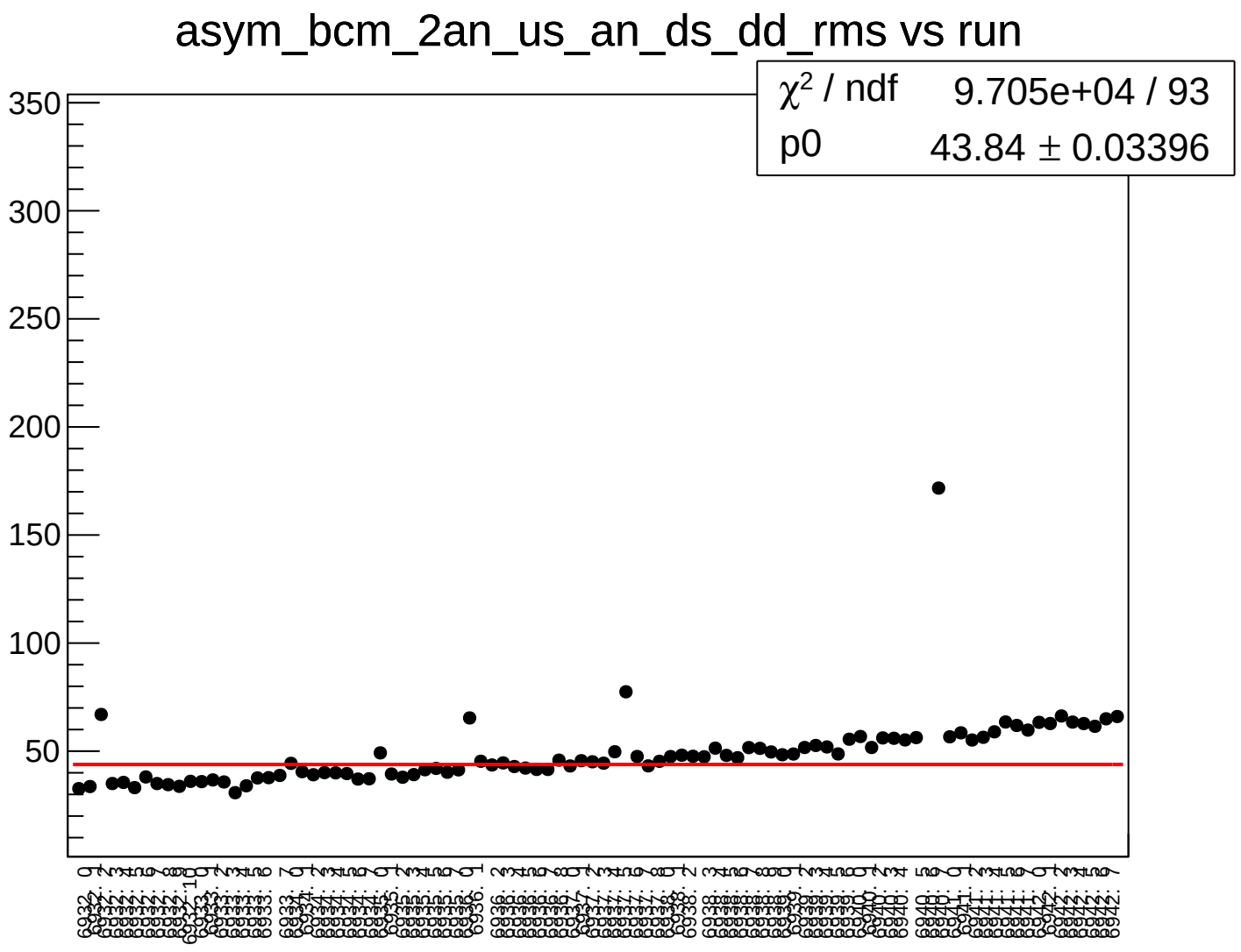

pull1D
Entries 94
Mean 0.1726
Std Dev 3.973
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

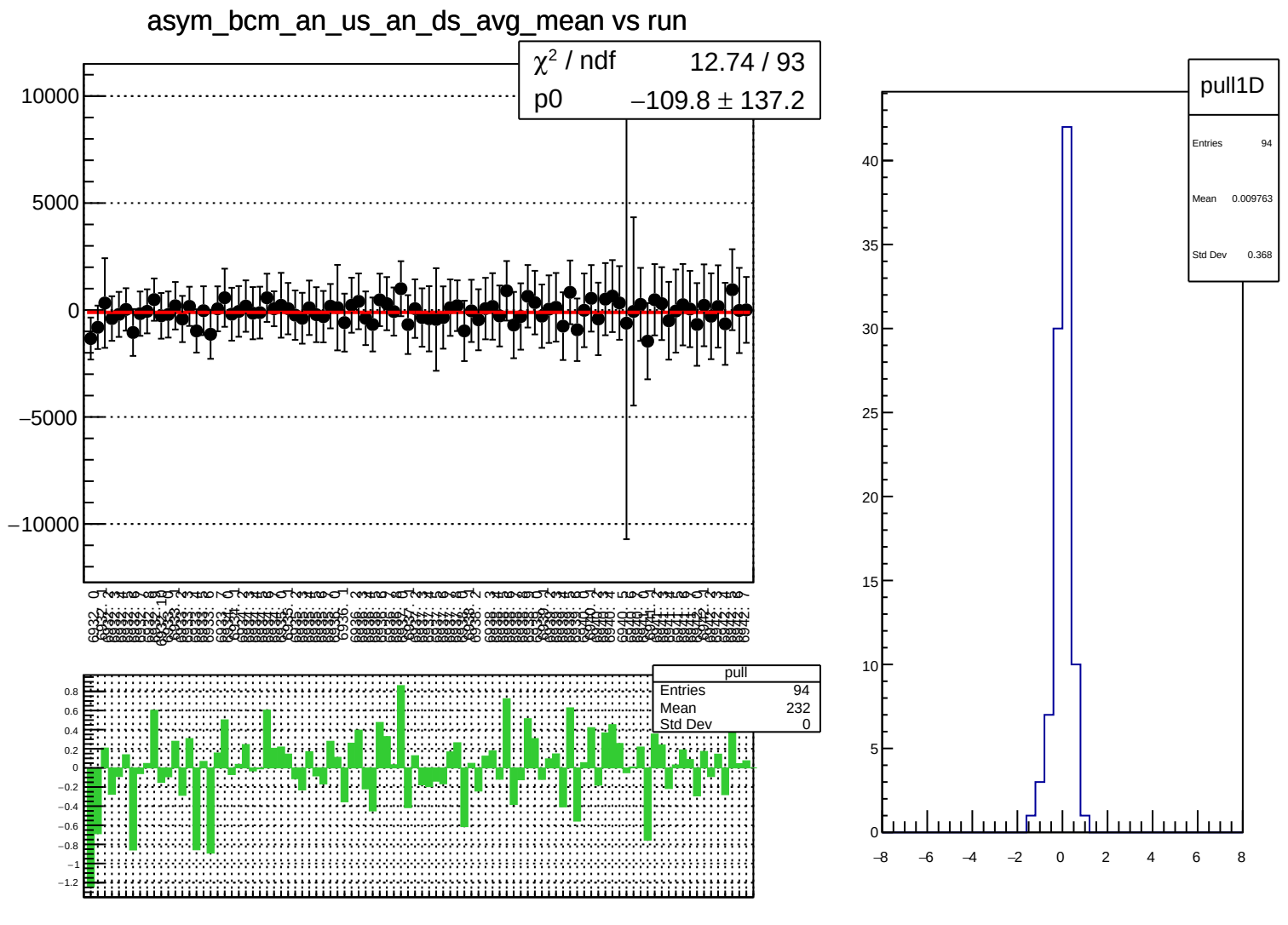

asym_bpm1i06WS_rms vs run
χ² / ndf 3.927e+04 / 93
p0 132.8 ± 0.1011
700
600
500
400
300
200
100

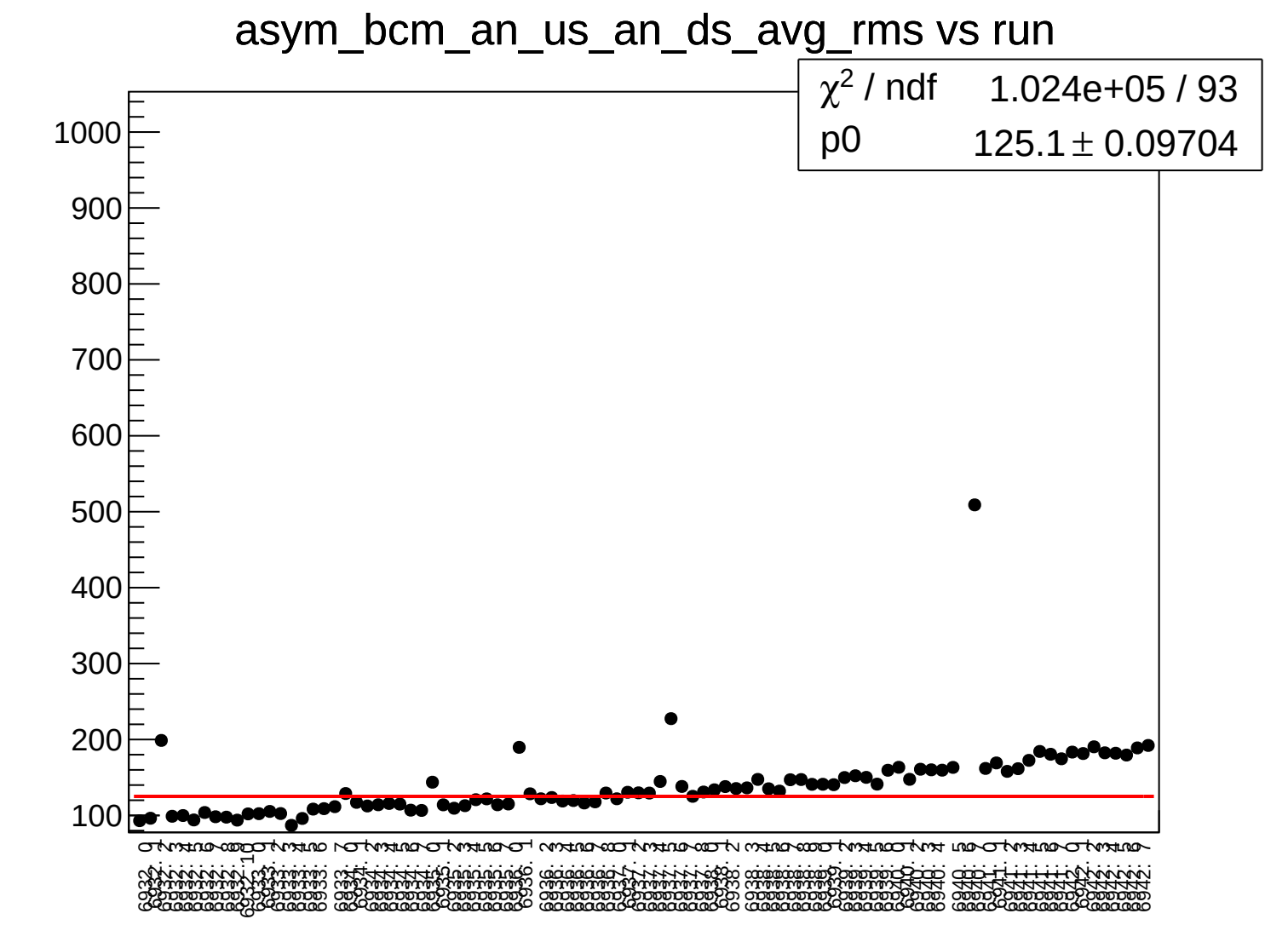

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 12.33 / 93
p0 −104.1± 137.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 232.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.0096
Std Dev 0.362
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

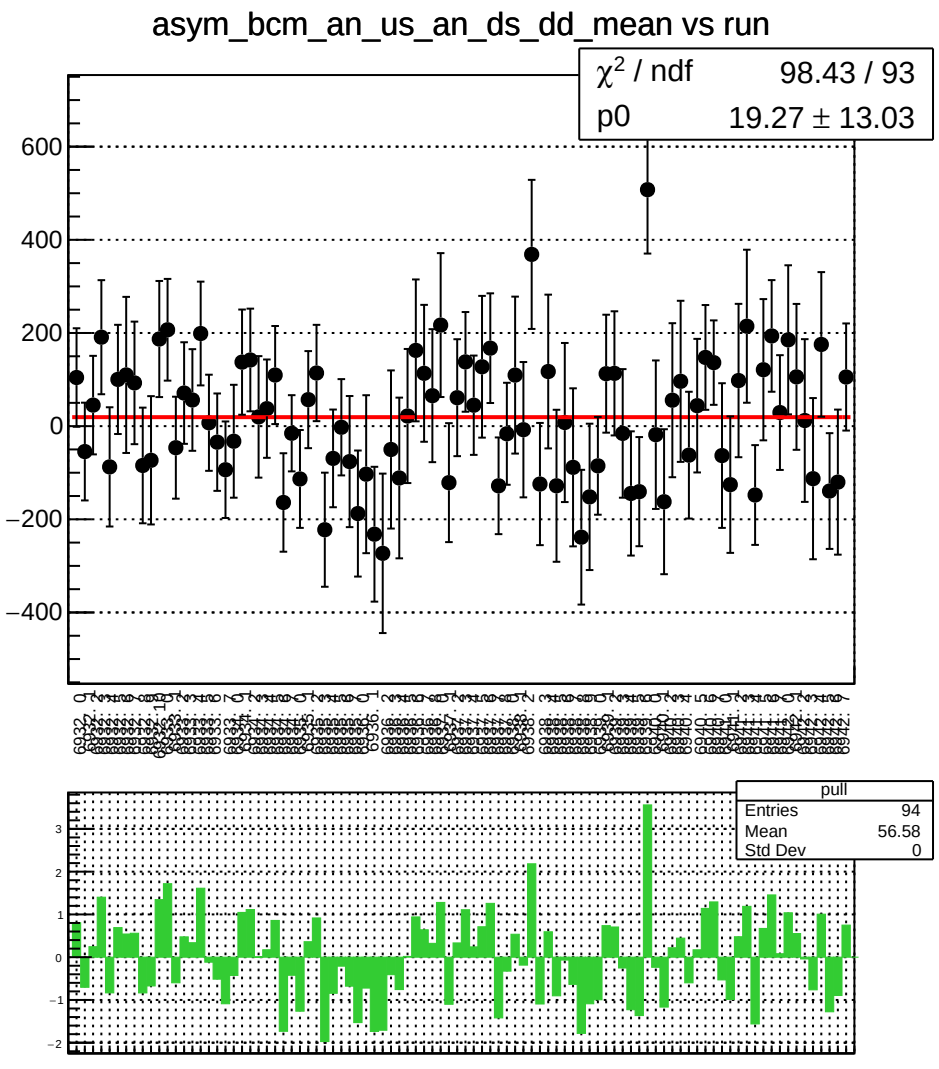

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.024e+05 / 93
p0 125.2 ± 0.09712
1000
900
800
700
600
500
400
300
200
100

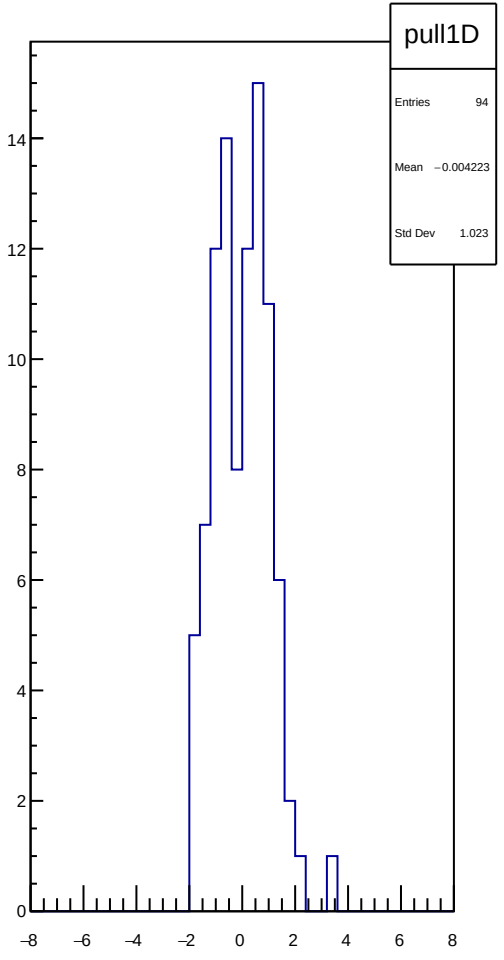

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 15.12 / 93
p0 −19.17 ± 48.03
pull
Entries 94
Mean 238
Std Dev 0
pull1D
Entries 94
Mean 0.007879
Std Dev 0.401

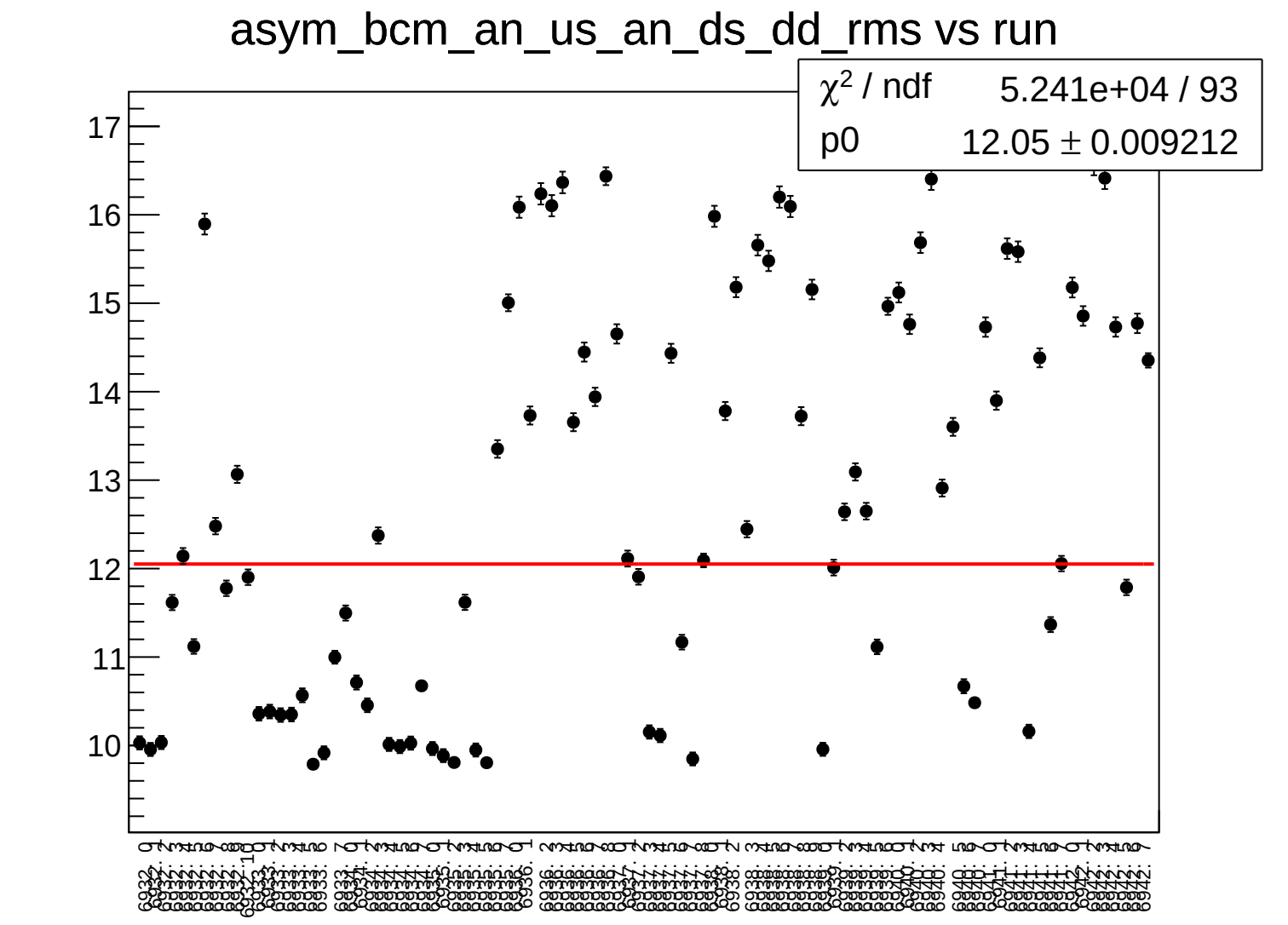

asym_bcm_2an_us_an_ds_dd_rms vs run
χ^2 / ndf 9.705e+04 / 93
p0 43.84 ± 0.03396
350
300
250
200
150
100
50

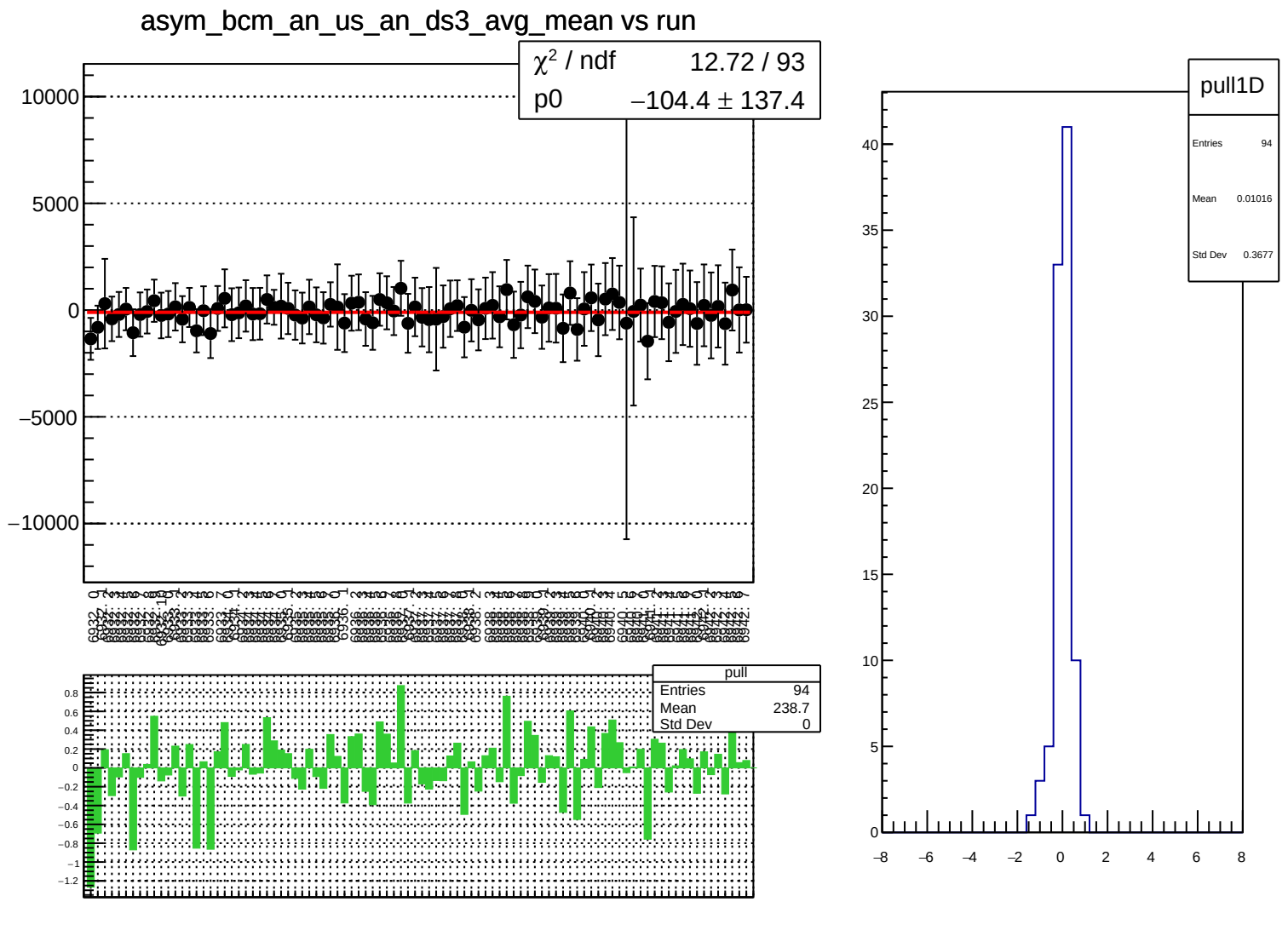

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 12.74 / 93
p0 −109.8 ± 137.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 232
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.009763
Std Dev 0.368
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

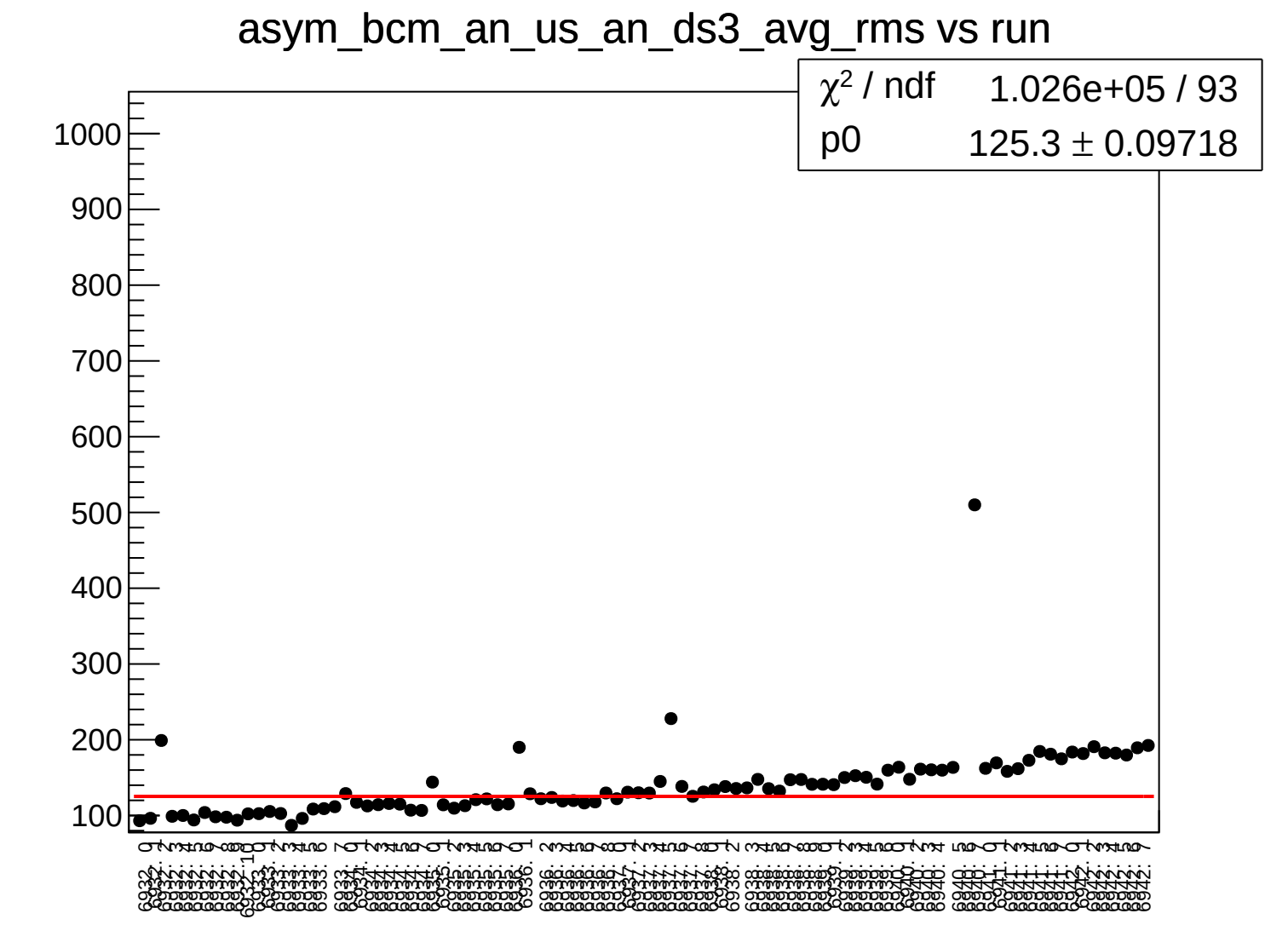

asym_bcm_an_us_an_ds_avg_rms vs run
χ^2 / ndf 1.024e+05 / 93
p0 125.1 ± 0.09704
1000
900
800
700
600
500
400
300
200
100

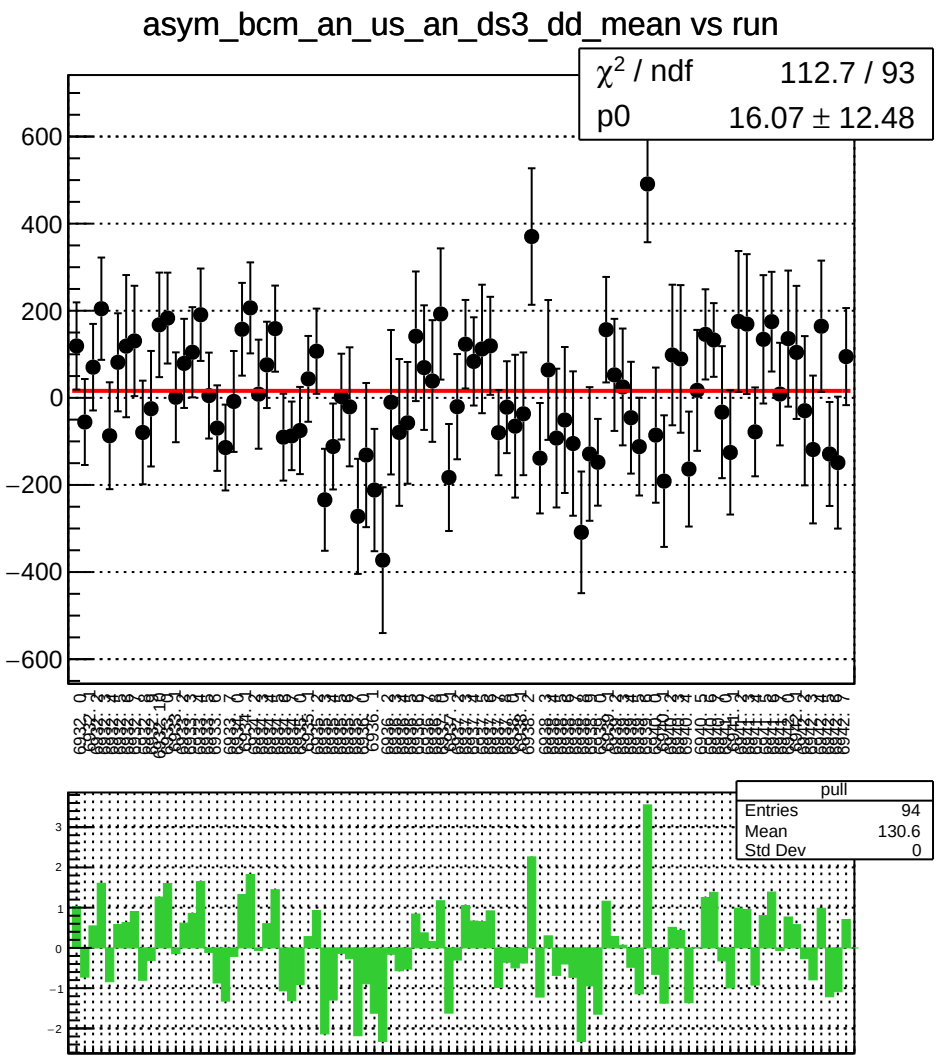

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 98.43 / 93
p0 19.27 ± 13.03
600
400
200
0
−200
−400
pull
Entries 94
Mean 56.58
Std Dev 0
3
2
1
0
−1
−2

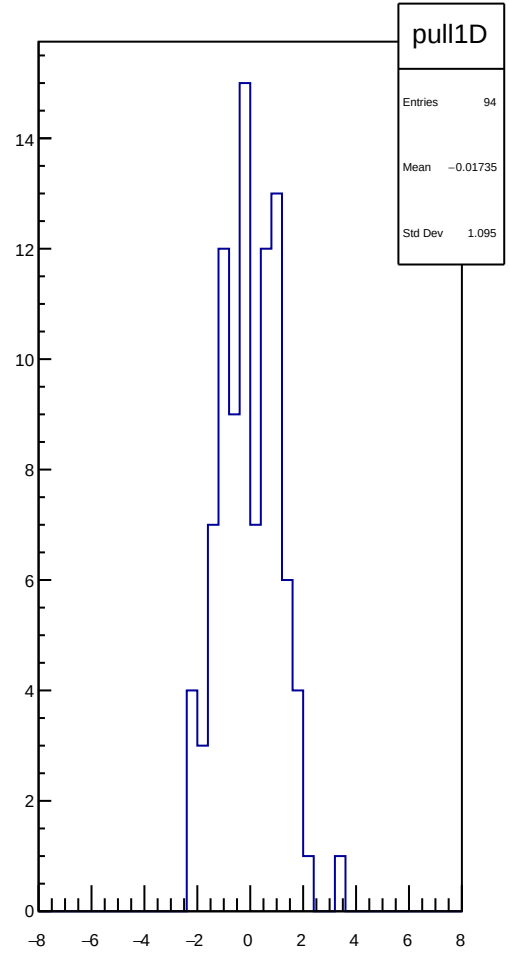

pull1D
Entries 94
Mean −0.004223
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

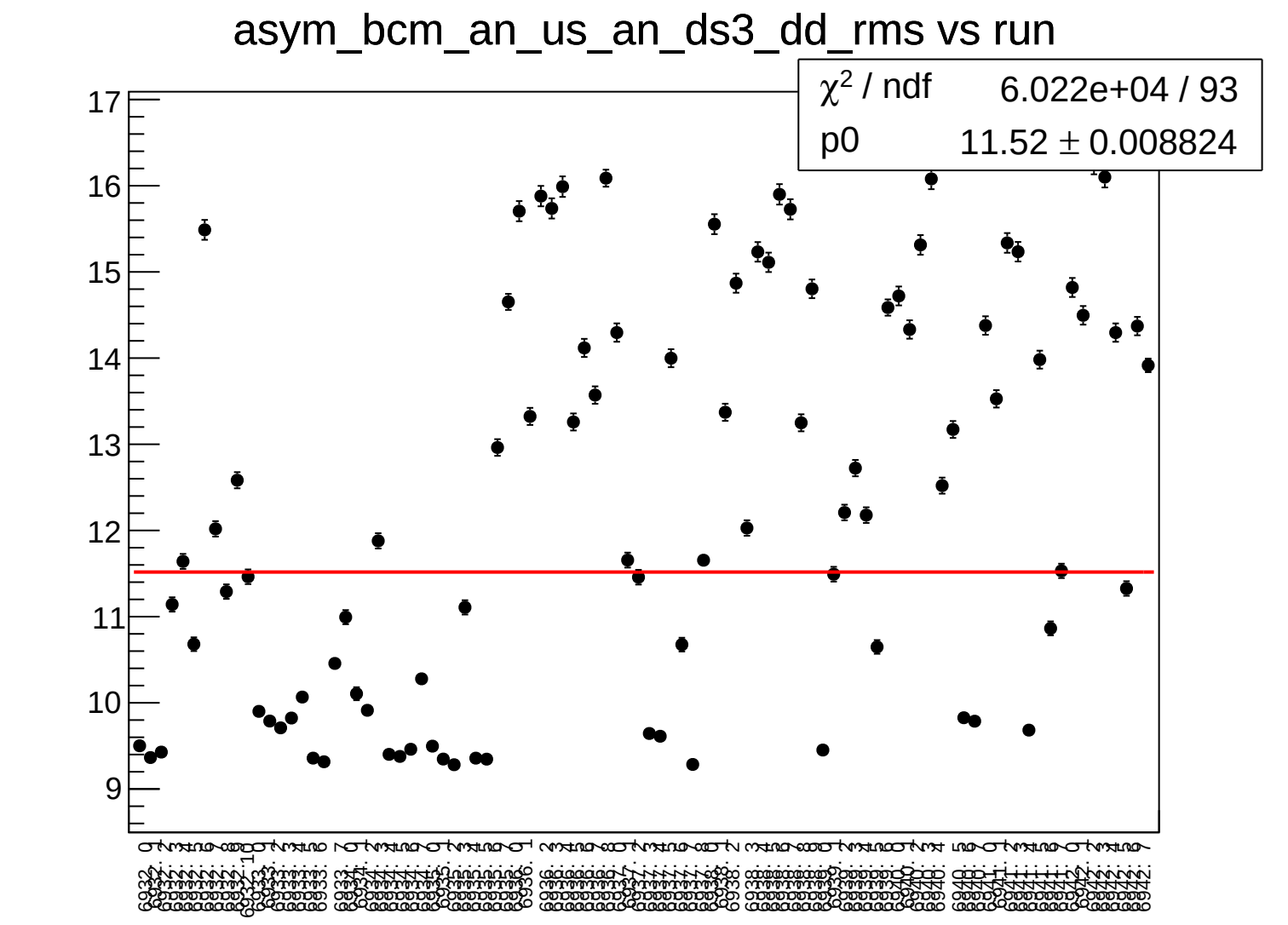

asym_bcm_an_us_an_ds_dd_rms vs run
χ^2 / ndf 5.241e+04 / 93
p0 12.05 ± 0.009212
17
16
15
14
13
12
11
10

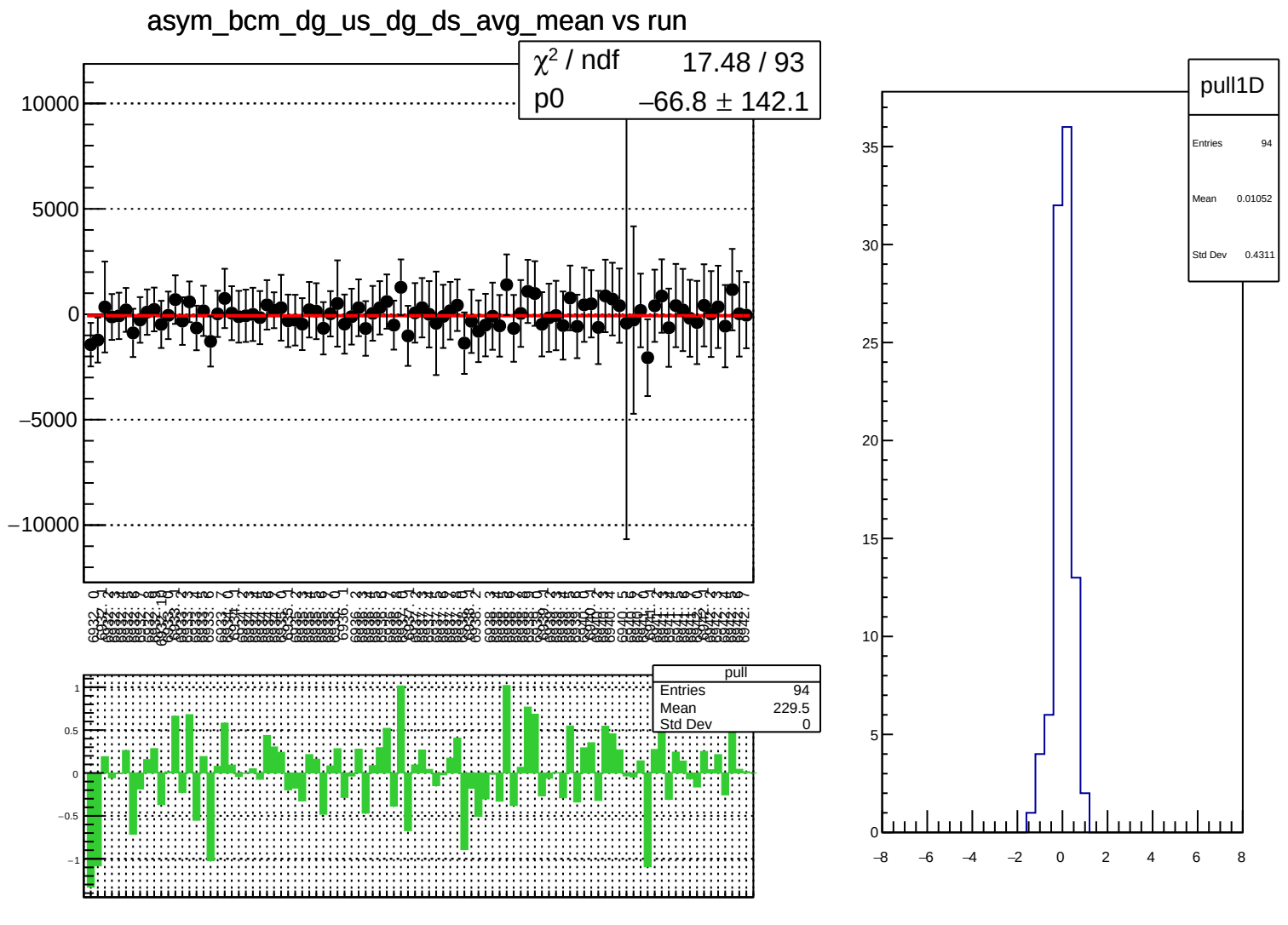

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 12.72 / 93
p0 −104.4 ± 137.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 238.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.01016
Std Dev 0.3677
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

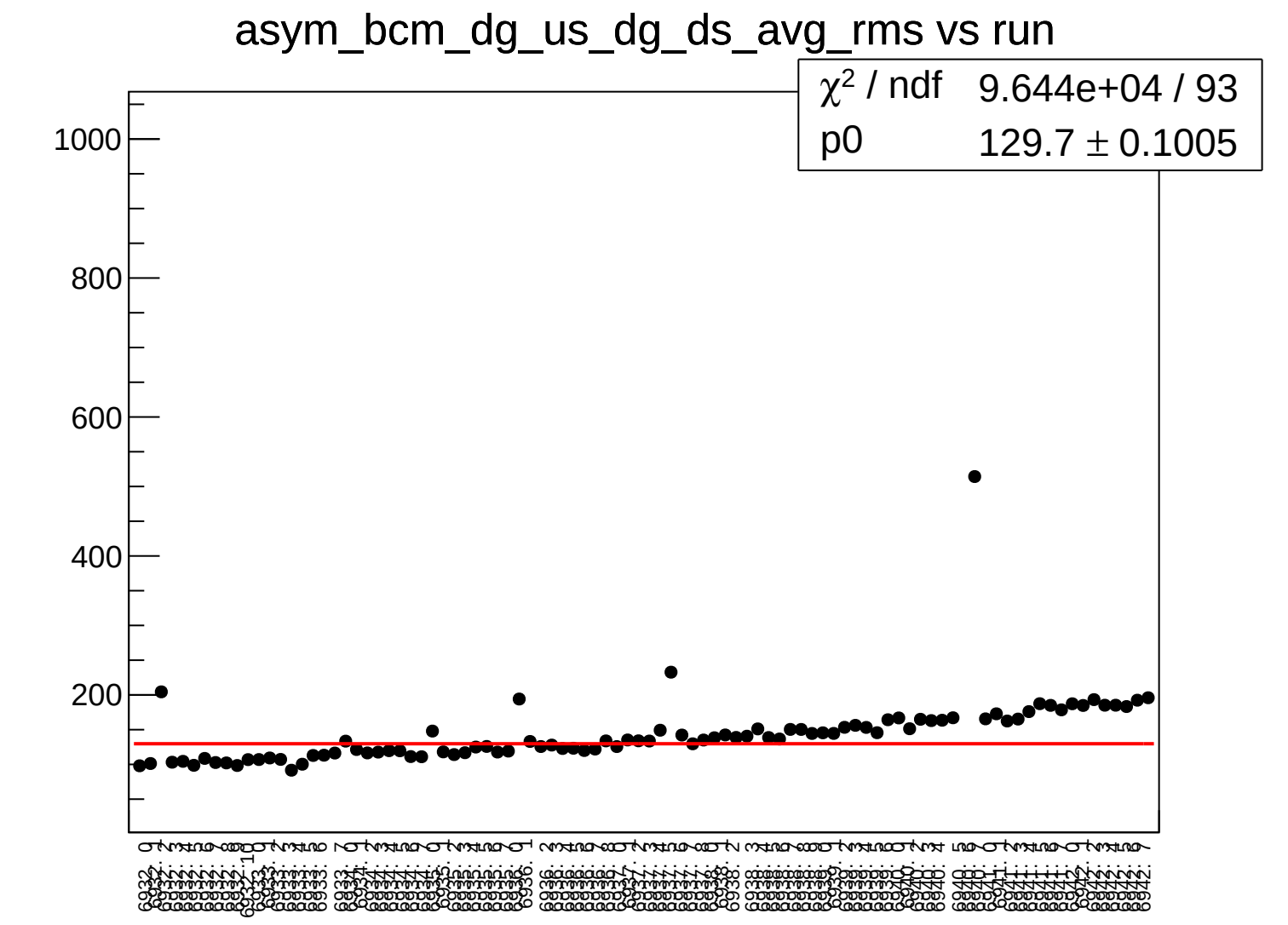

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.026e+05 / 93
p0 125.3 ± 0.09718
1000
900
800
700
600
500
400
300
200
100

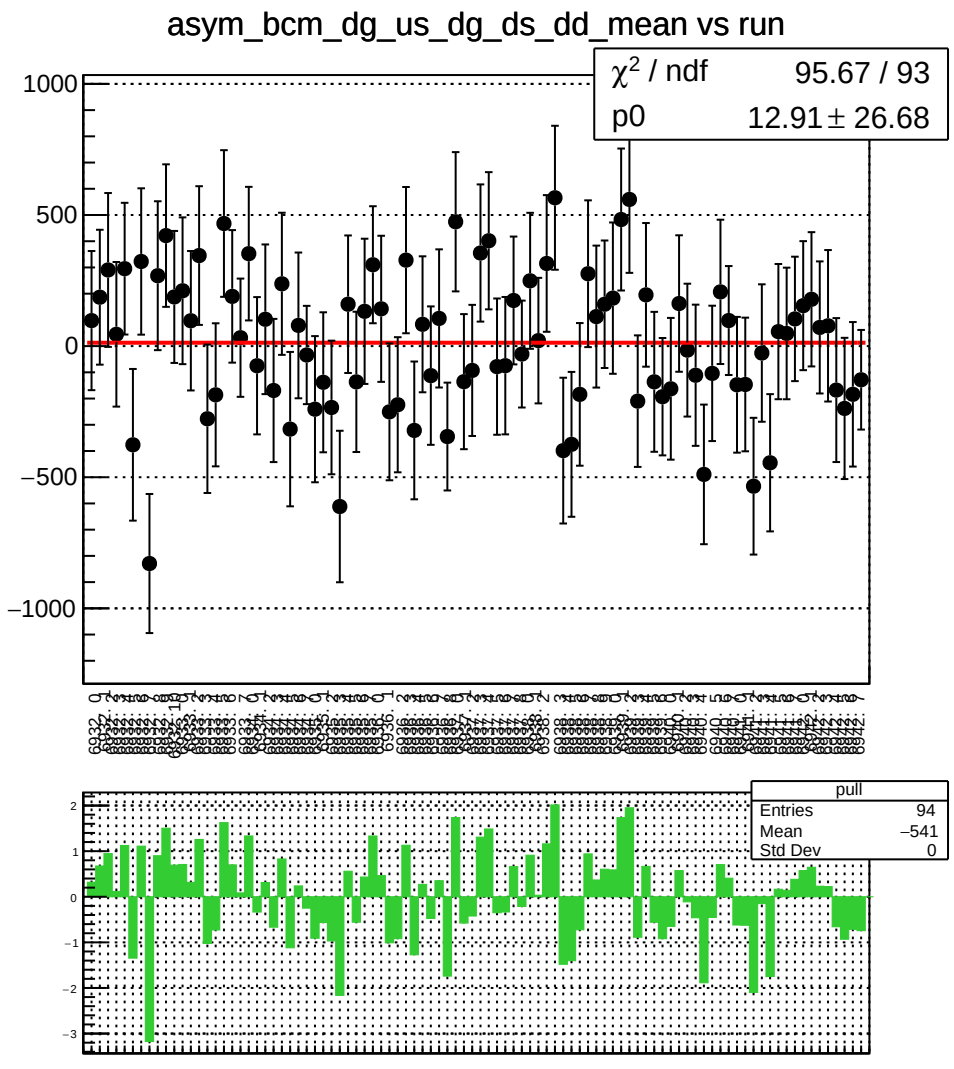

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 112.7 / 93
p0 16.07 ± 12.48
pull
Entries 94
Mean 130.6
Std Dev 0

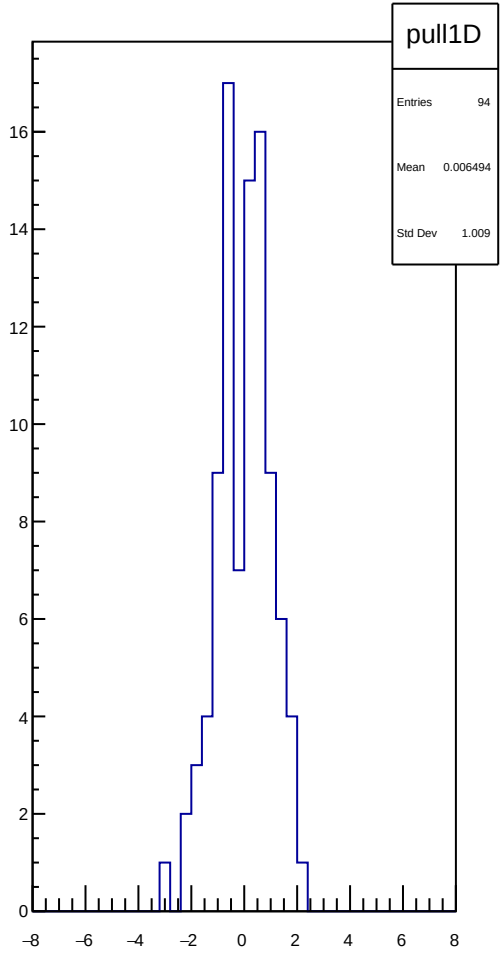

pull1D
Entries 94
Mean −0.01735
Std Dev 1.095

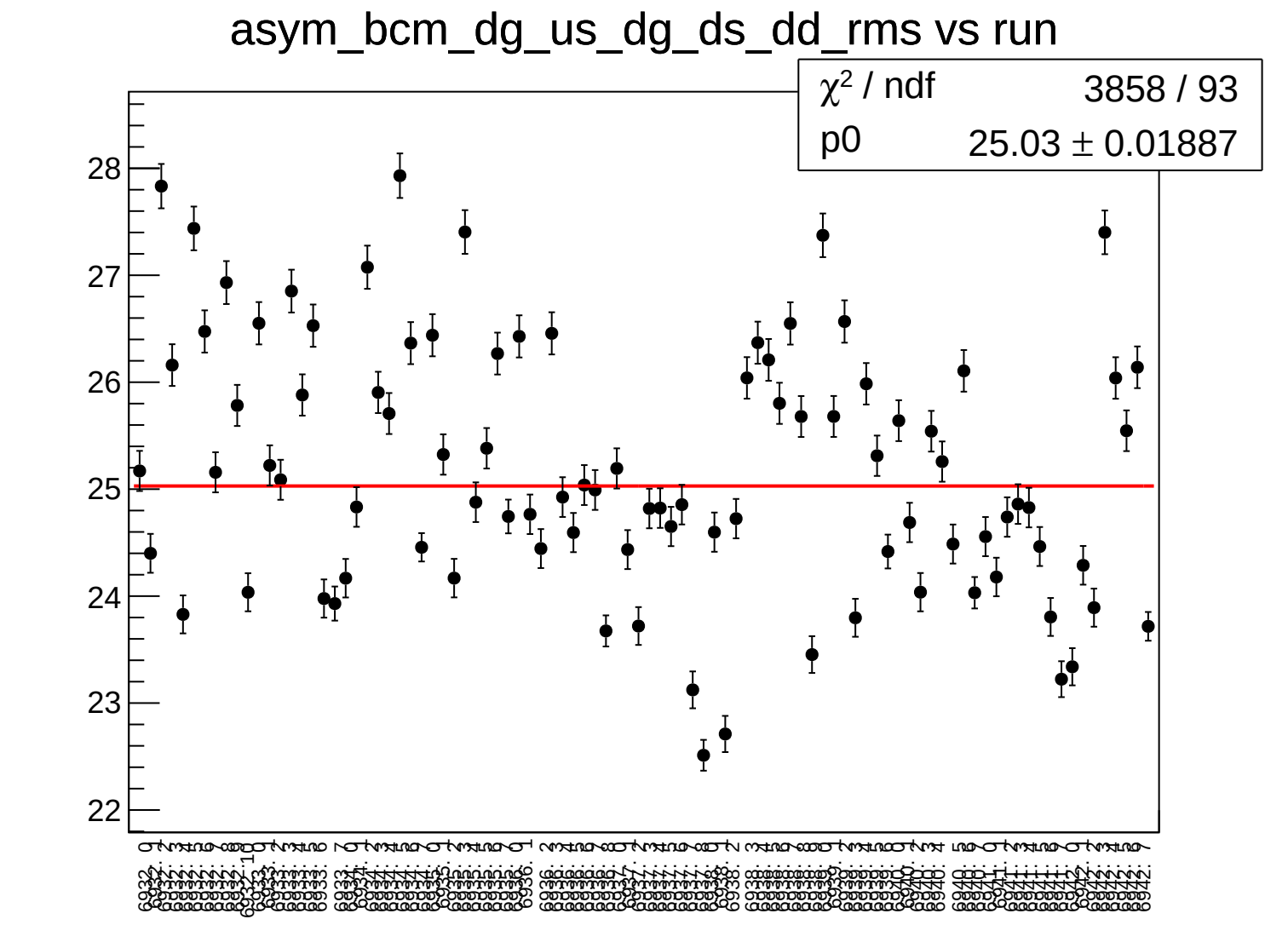

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 6.022e+04 / 93
p0 11.52 ± 0.008824
17
16
15
14
13
12
11
10
9

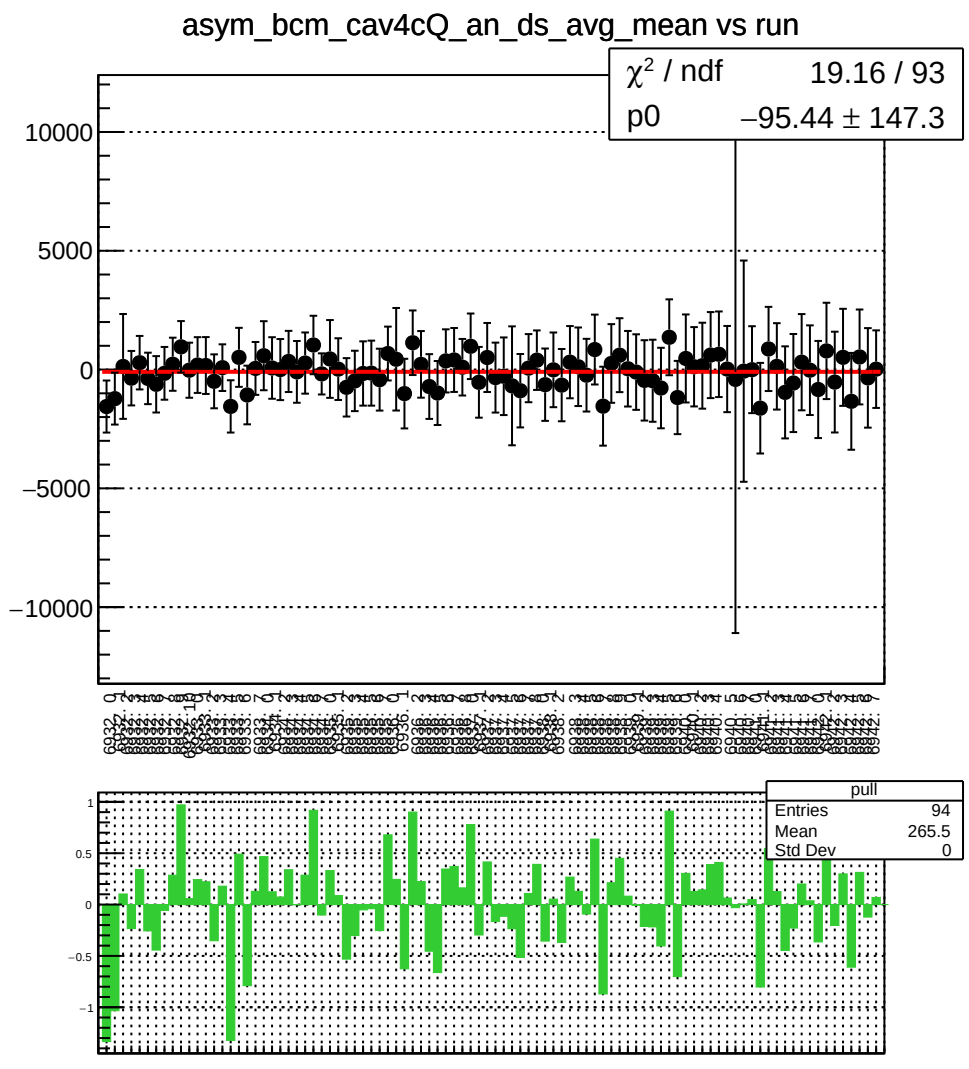

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 17.48 / 93
p0 −66.8 ± 142.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 229.5
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.01052
Std Dev 0.4311
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

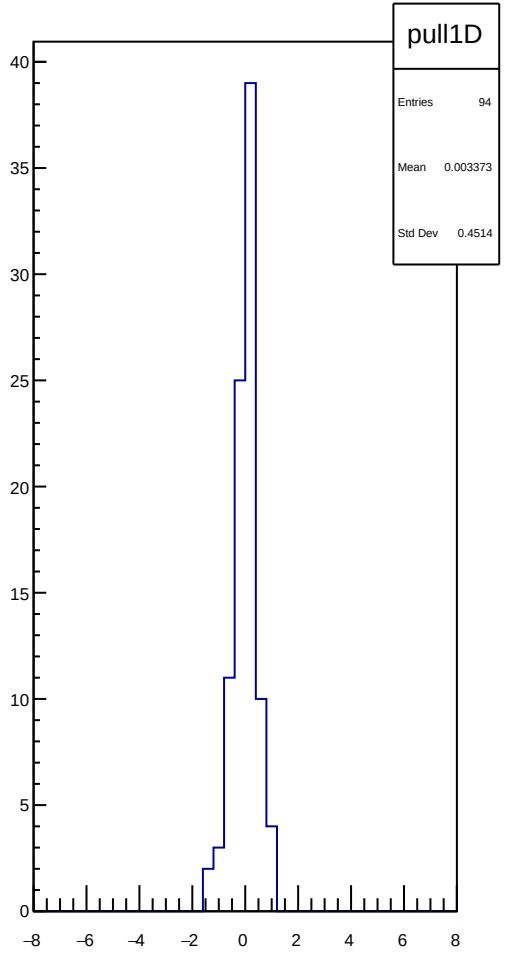

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 9.644e+04 / 93
p0 129.7 ± 0.1005
1000
800
600
400
200

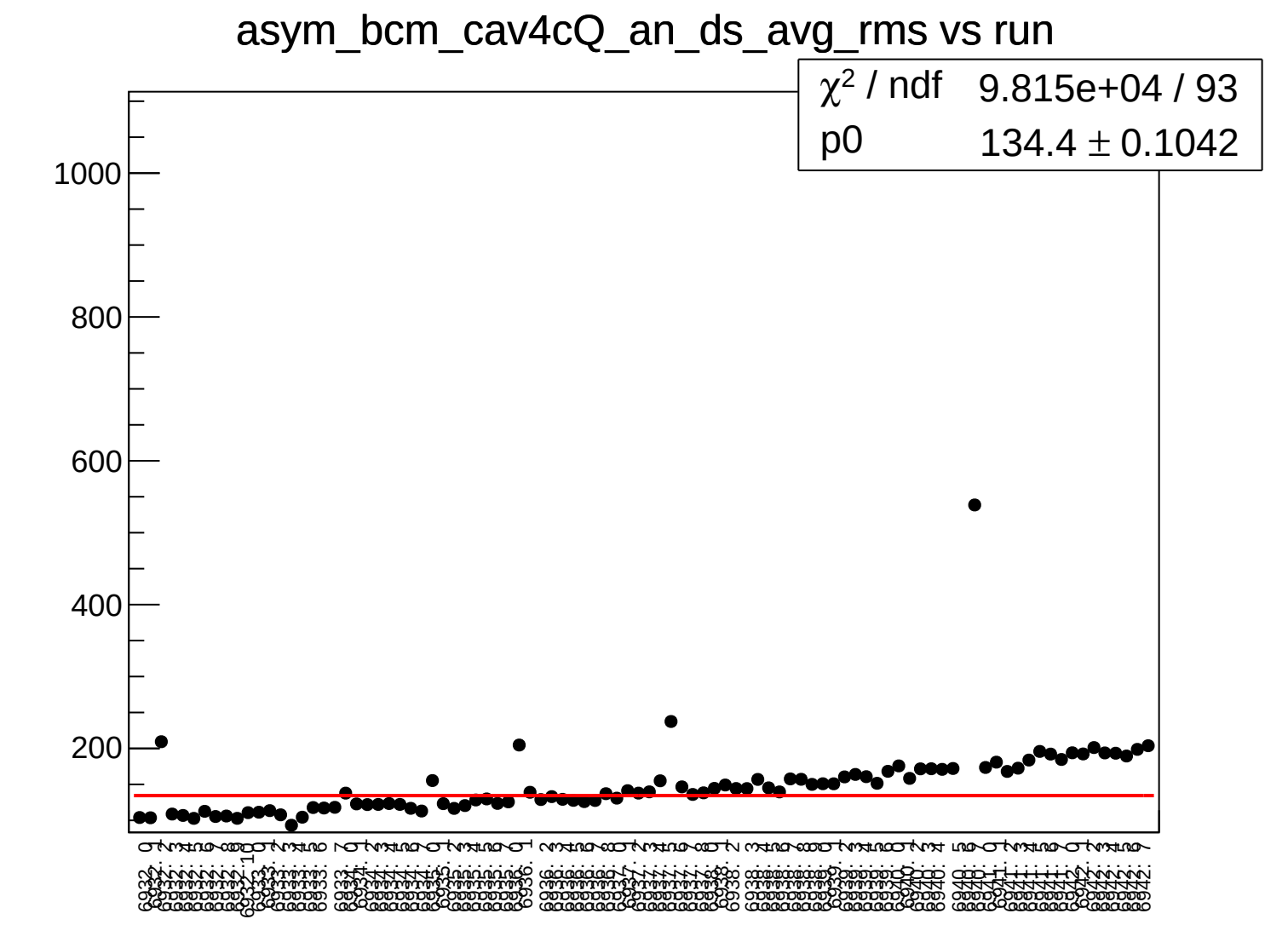

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 95.67 / 93
p0 12.91 ± 26.68
1000
500
0
−500
−1000
pull
Entries 94
Mean −541
Std Dev 0
2
1
0
−1
−2
−3

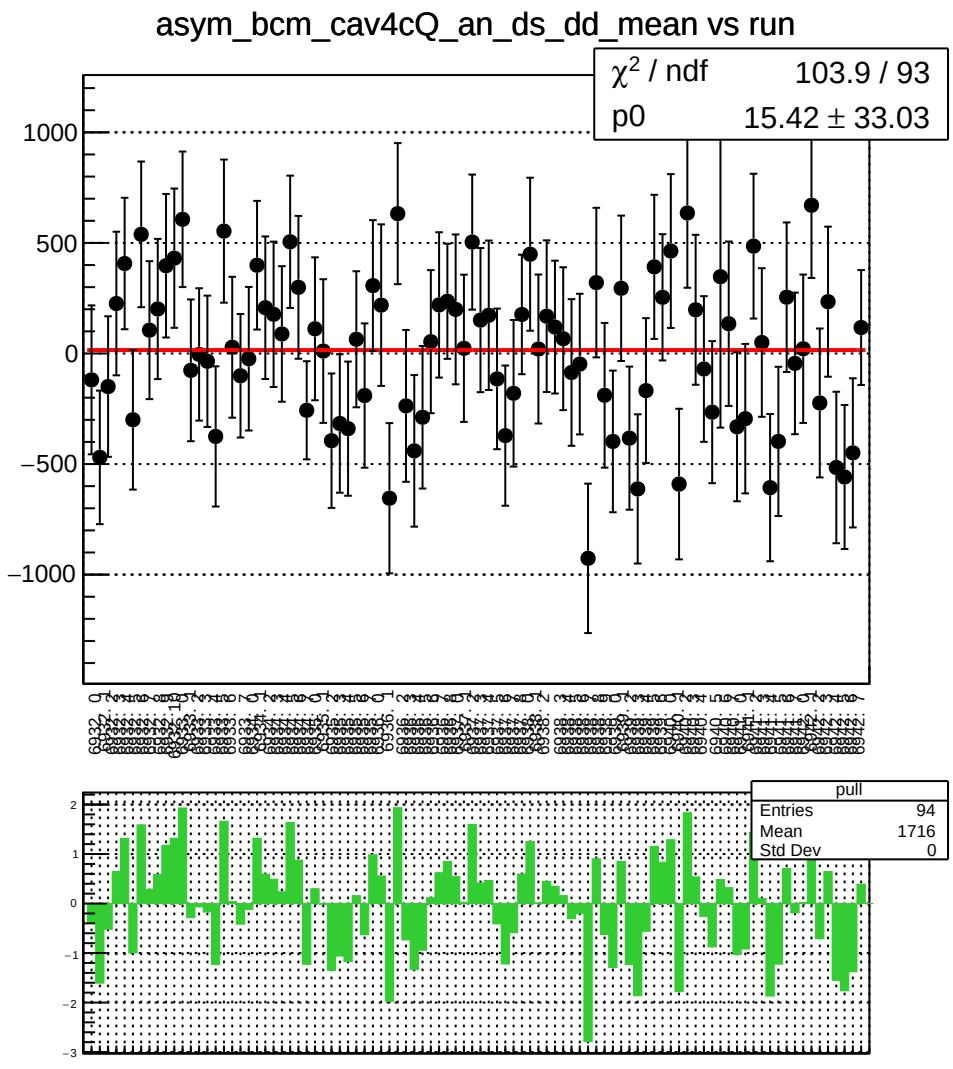

pull1D
Entries 94
Mean 0.006494
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

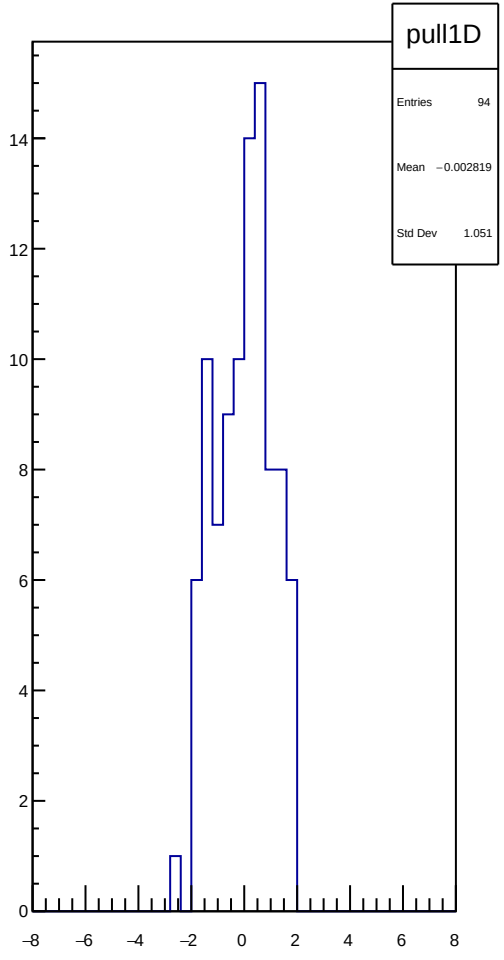

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3858 / 93
p0 25.03 ± 0.01887
28
27
26
25
24
23
22

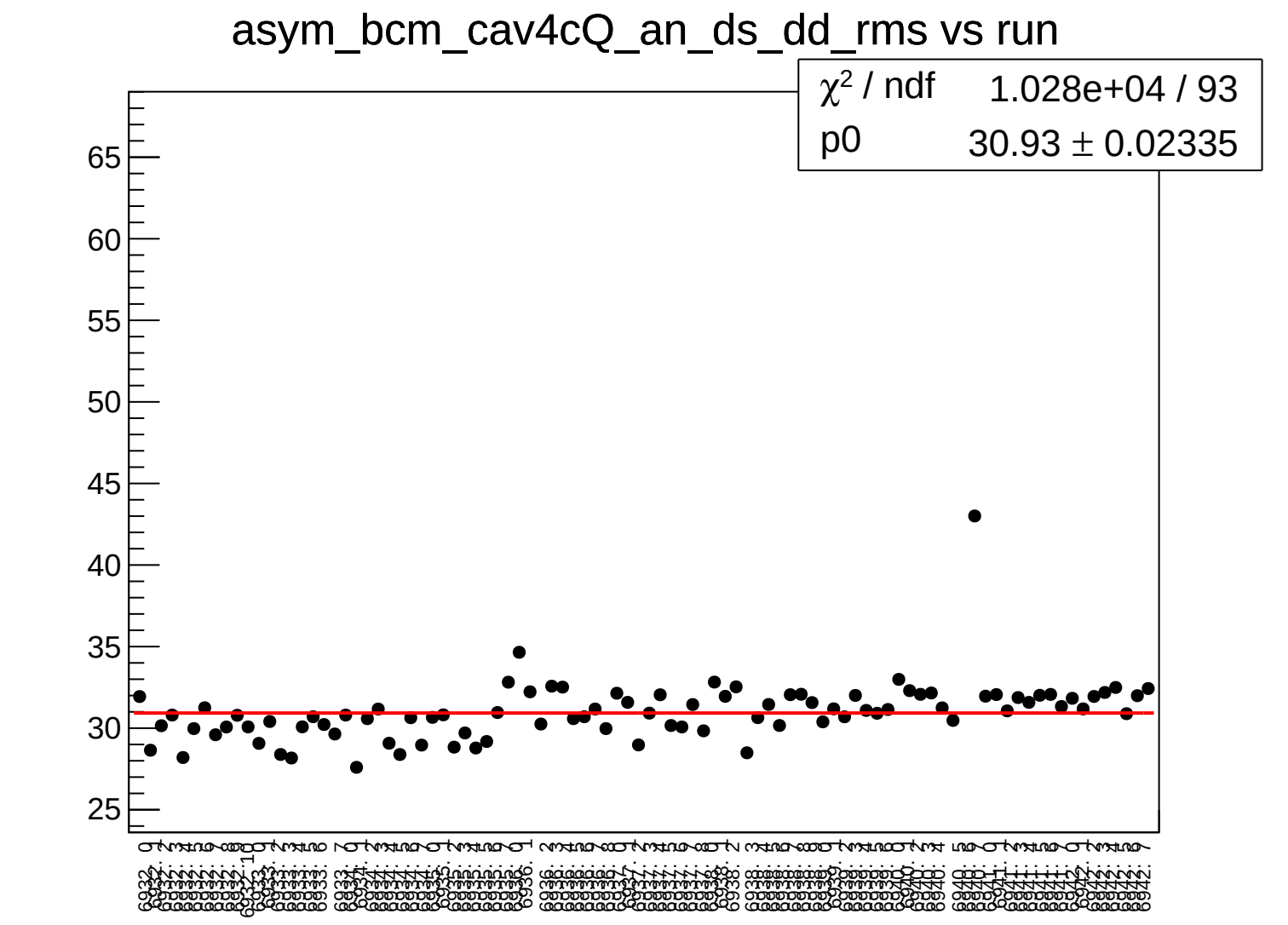

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 19.16 / 93
p0 −95.44 ± 147.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 265.5
Std Dev 0
1
0.5
0
−0.5
−1

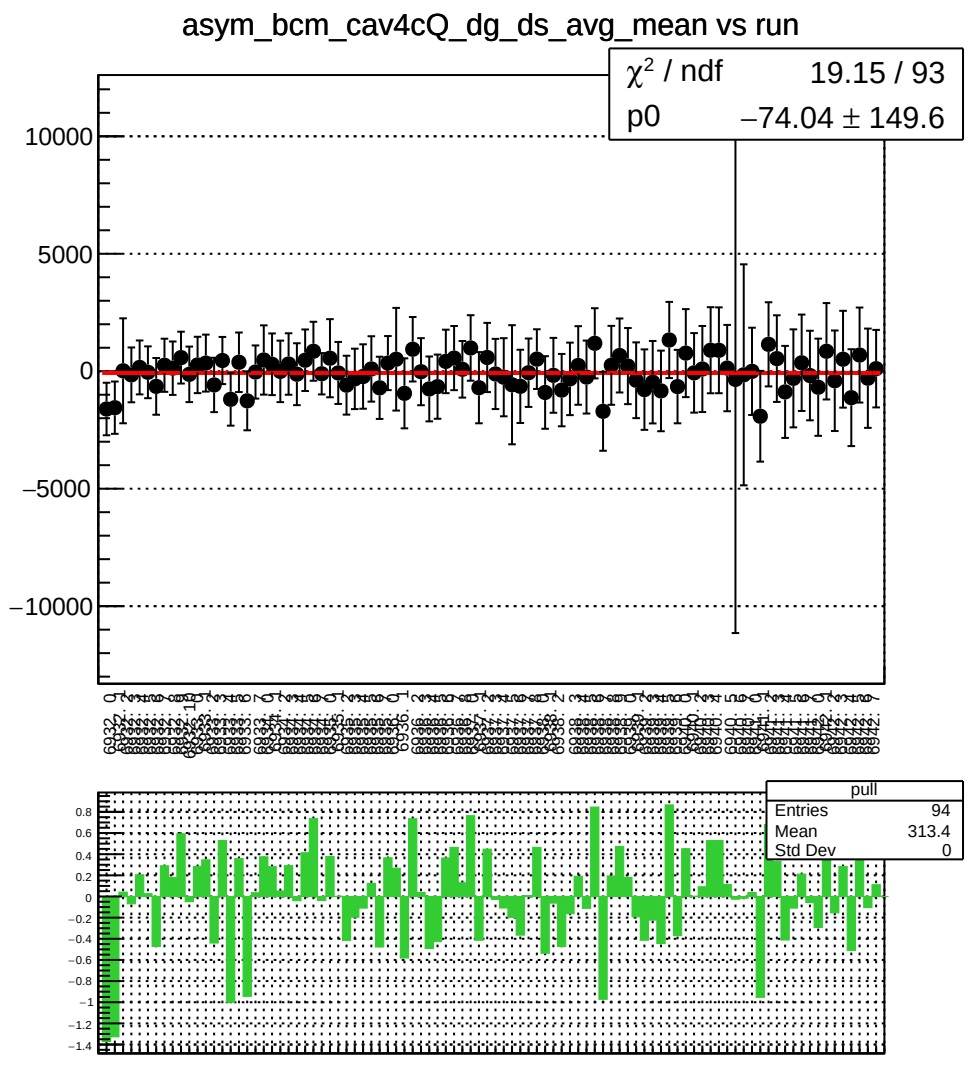

pull1D
Entries 94
Mean 0.003373
Std Dev 0.4514
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

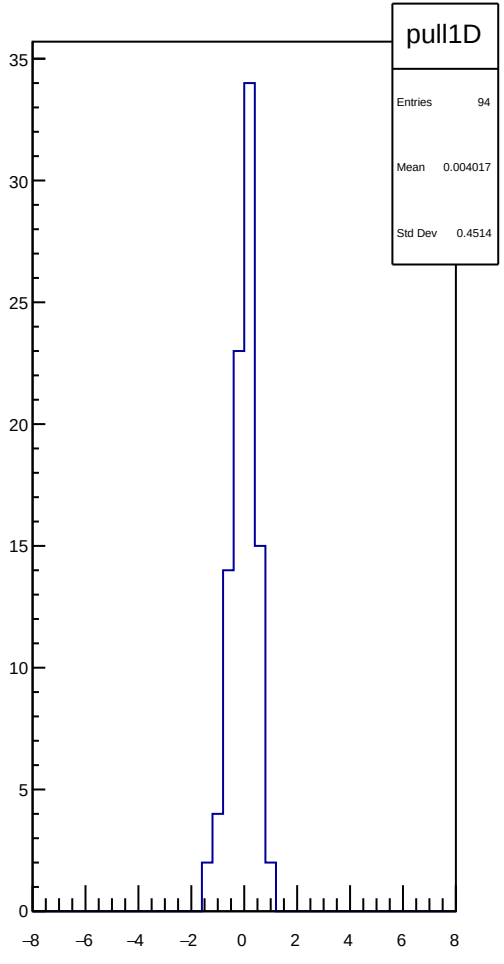

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 9.815e+04 / 93
p0 134.4 ± 0.1042
1000
800
600
400
200

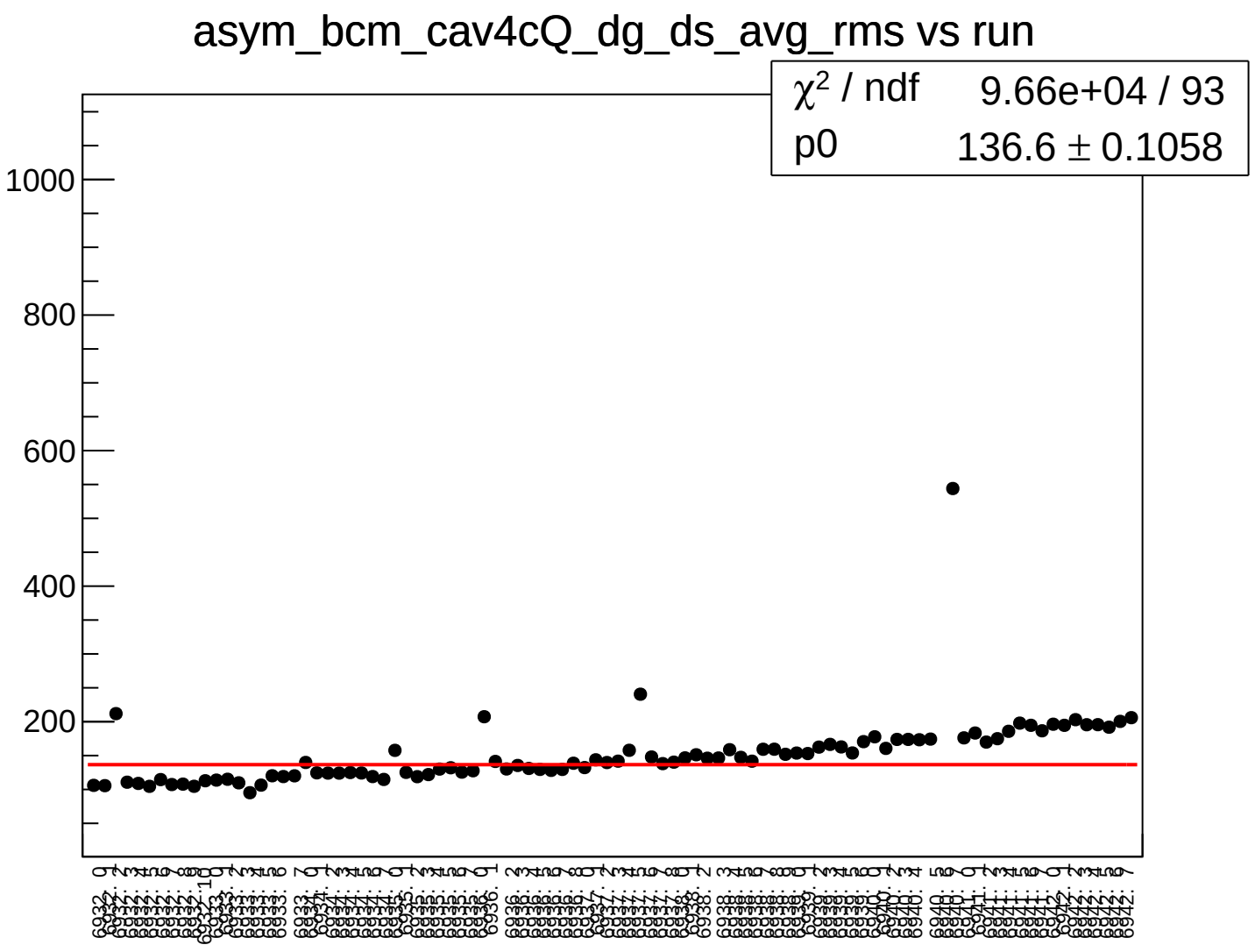

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 103.9 / 93
p0 15.42 ± 33.03
1000
500
0
−500
−1000
pull
Entries 94
Mean 1716
Std Dev 0
2
1
0
−1
−2
−3

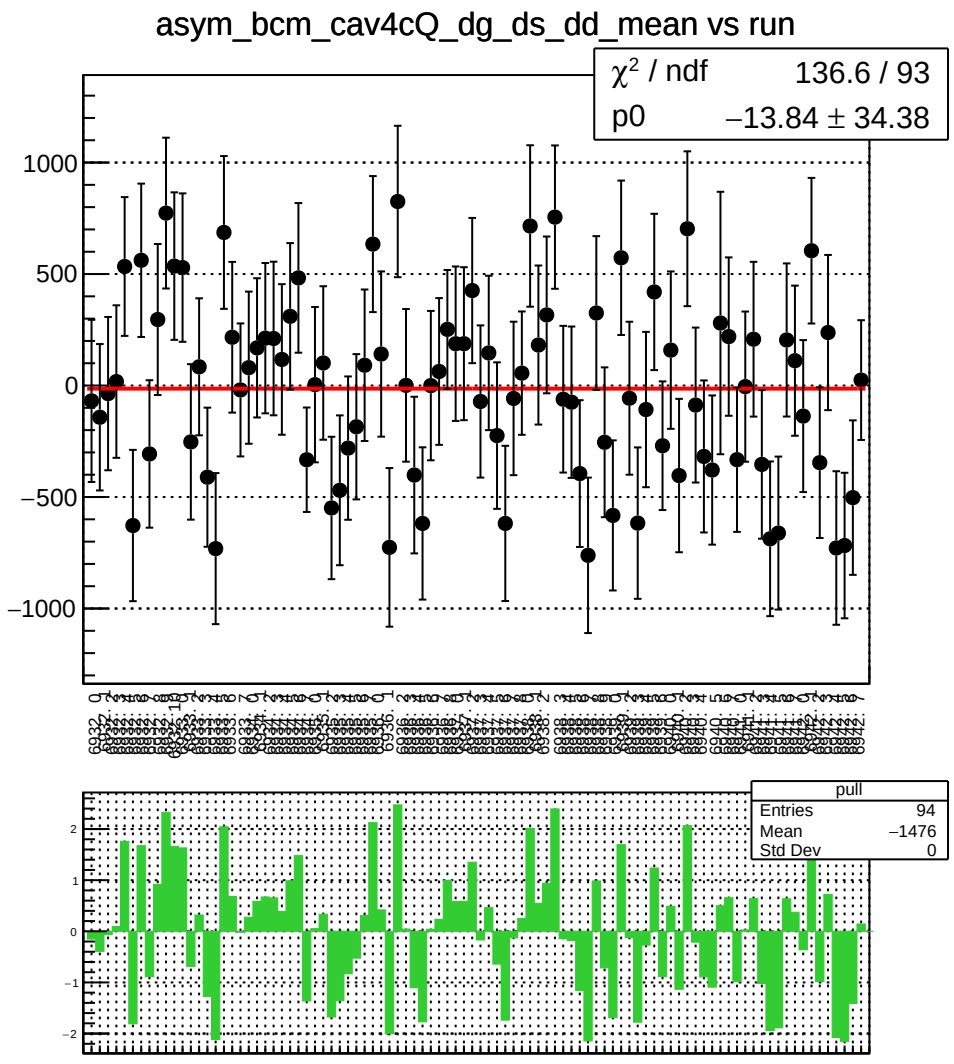

pull1D
Entries 94
Mean −0.002819
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

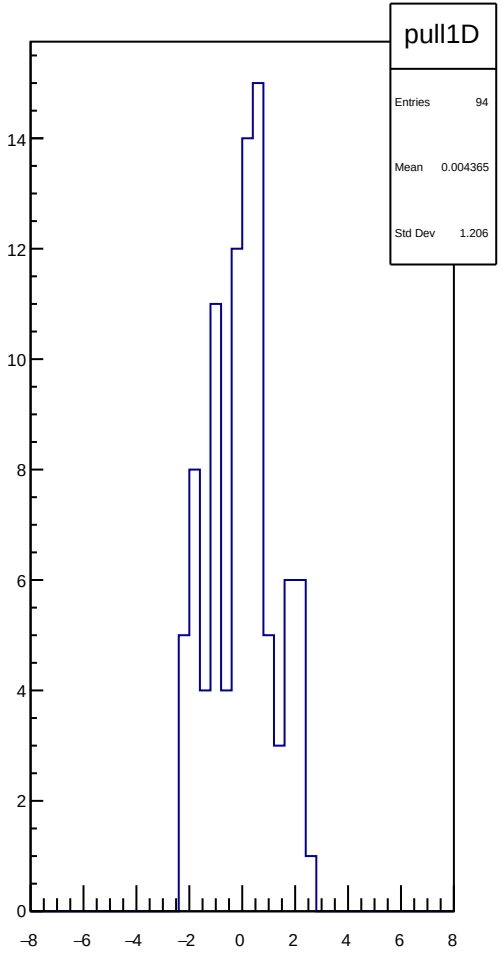

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 1.028e+04 / 93
p0 30.93 ± 0.02335
65
60
55
50
45
40
35
30
25

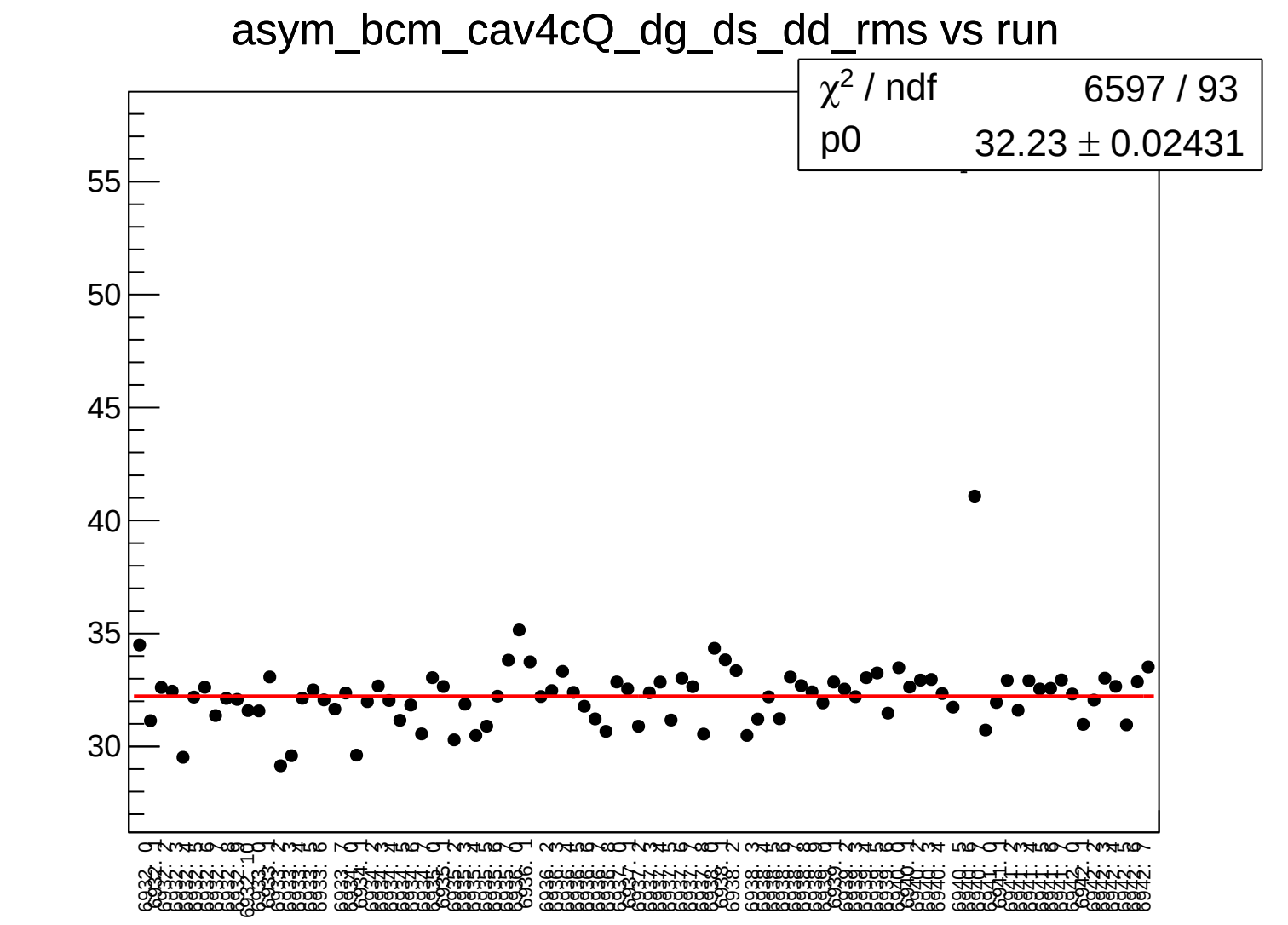

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 19.15 / 93
p0 −74.04 ± 149.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 313.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4

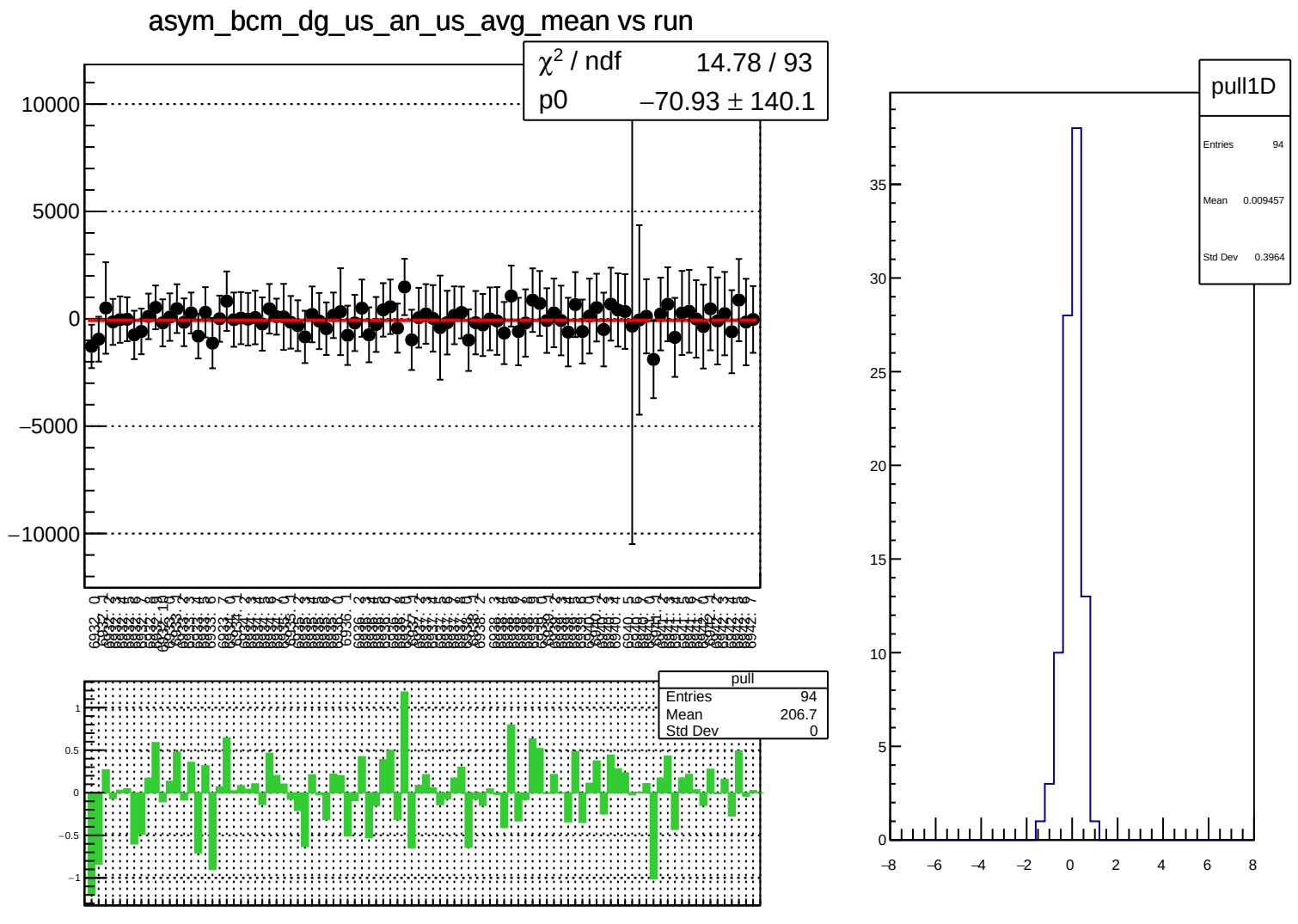

pull1D
Entries 94
Mean 0.004017
Std Dev 0.4514
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

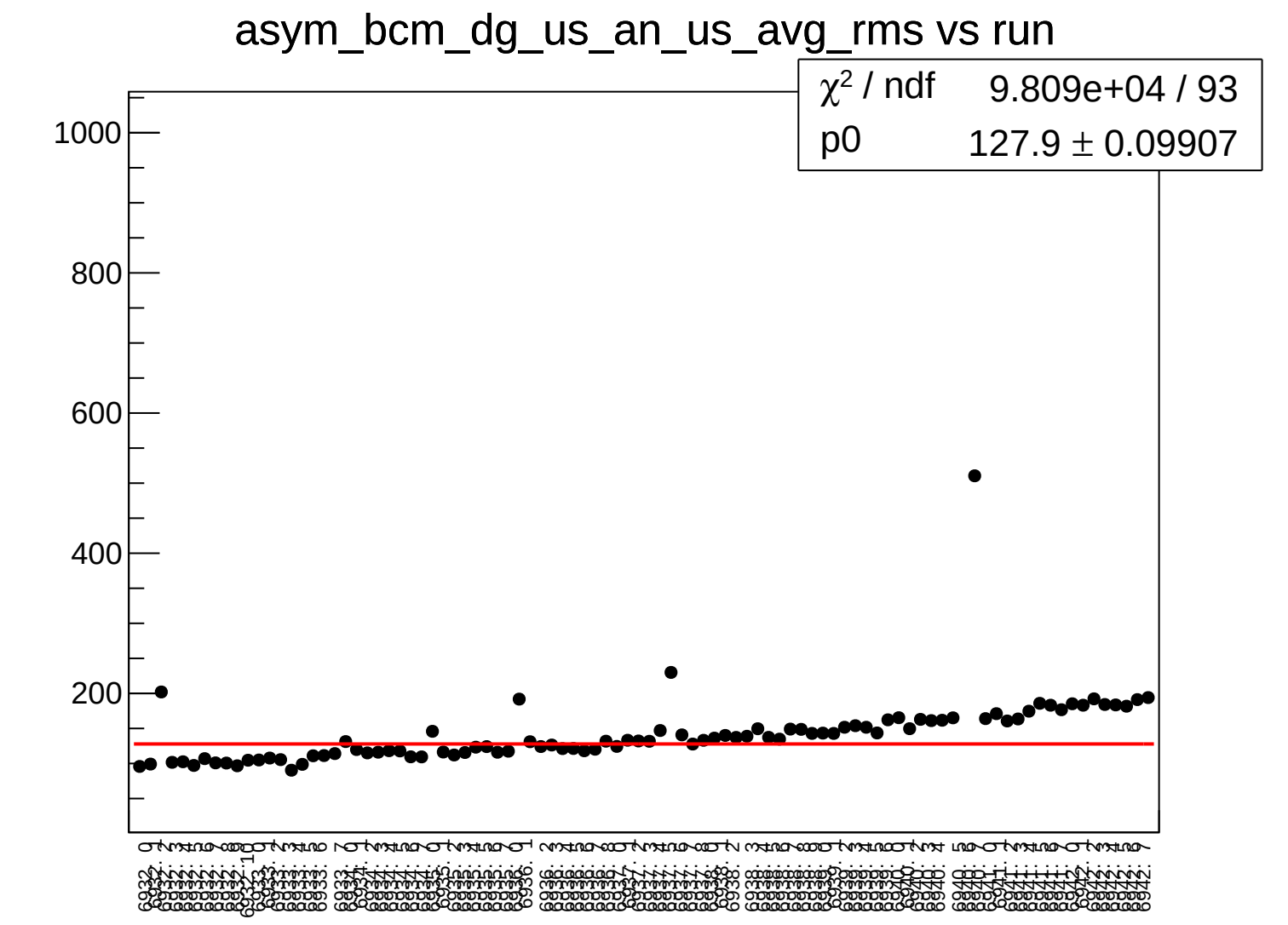

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 9.66e+04 / 93
p0 136.6 ± 0.1058
1000
800
600
400
200

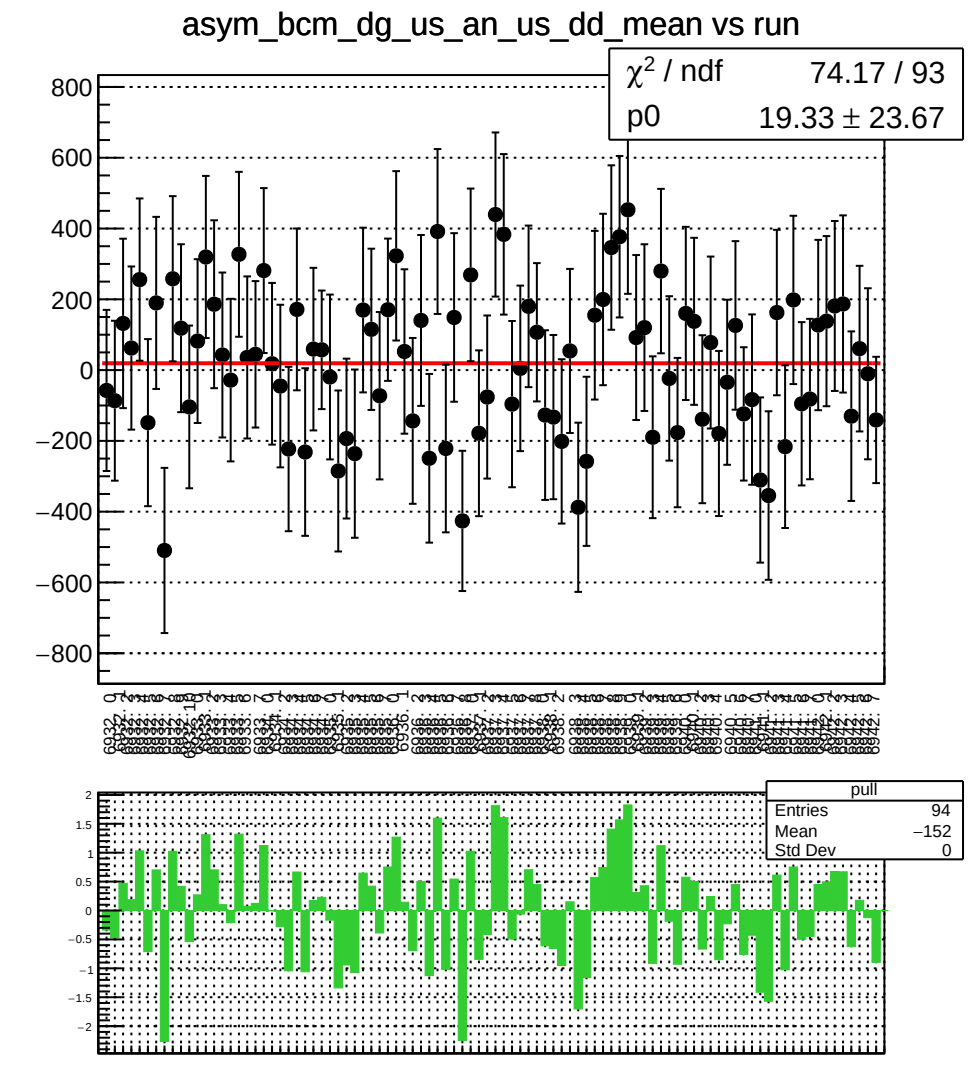

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 136.6 / 93
p0 −13.84 ± 34.38
1000
500
0
−500
−1000
pull
Entries 94
Mean −1476
Std Dev 0
2
1
0
−1
−2

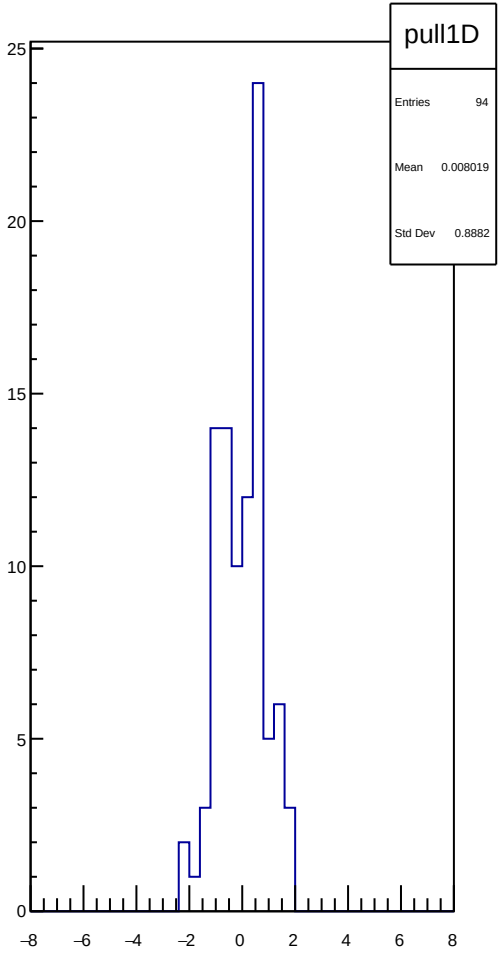

pull1D
Entries 94
Mean 0.004365
Std Dev 1.206
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

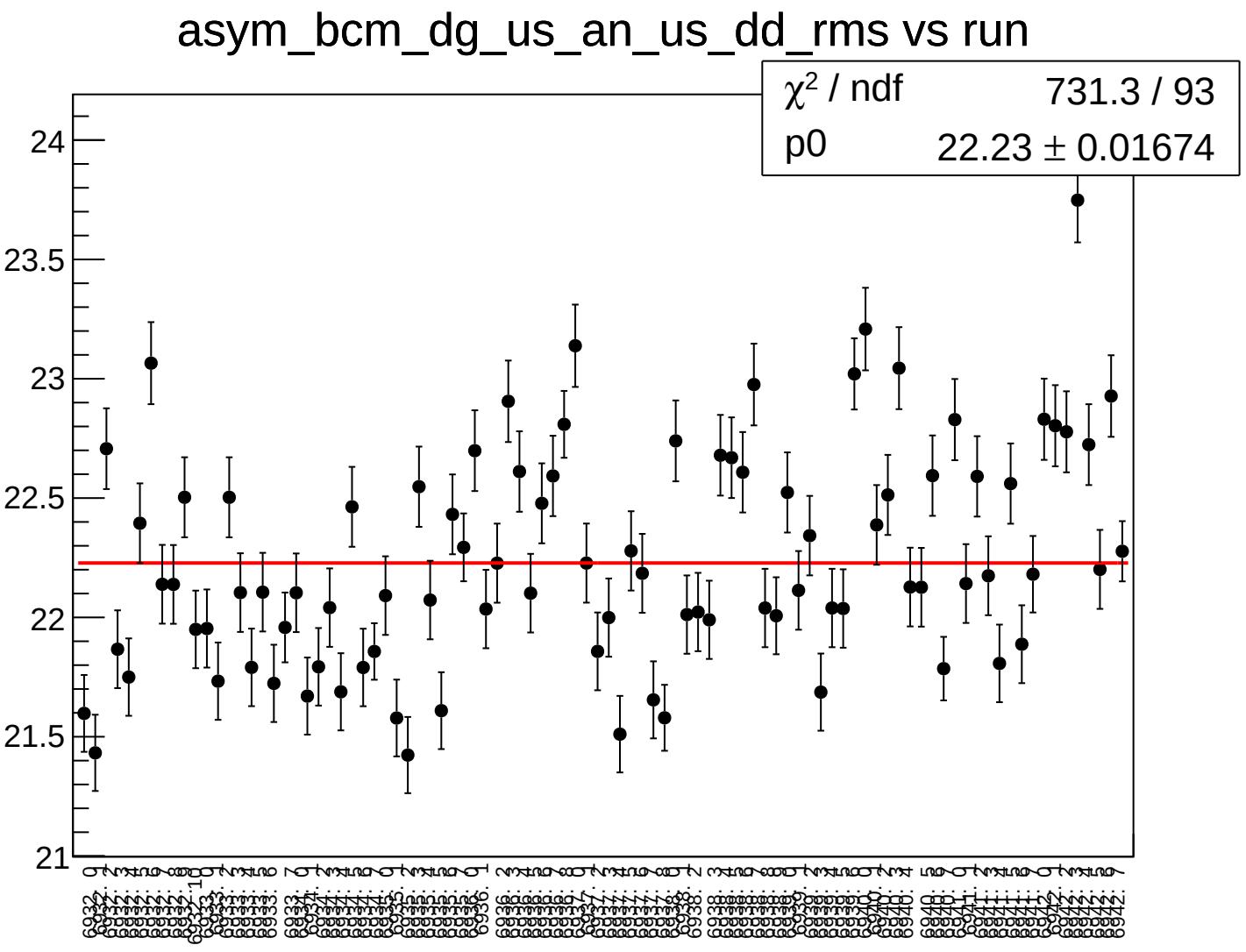

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 6597 / 93
p0 32.23 ± 0.02431
55
50
45
40
35
30

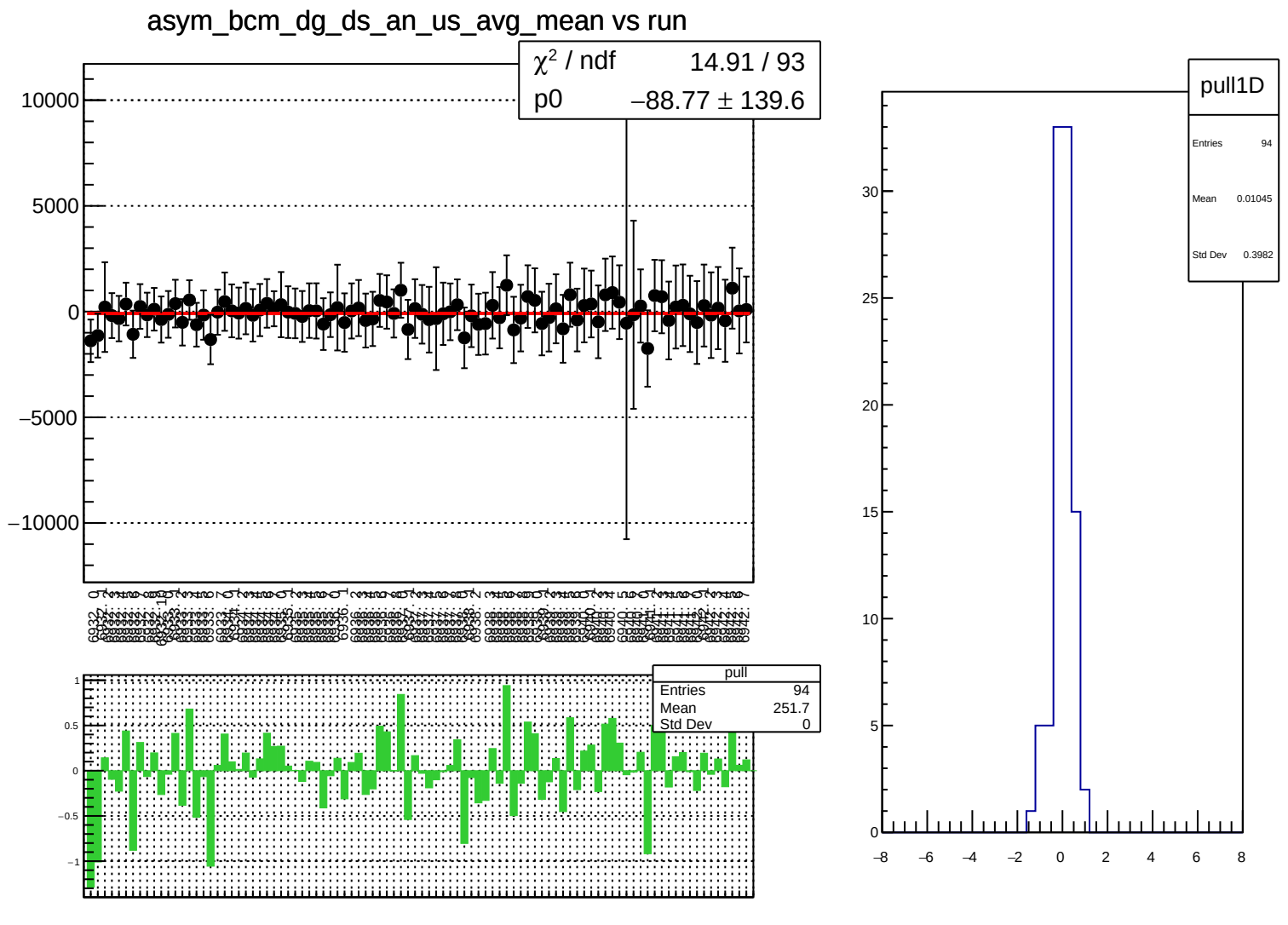

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 14.78 / 93
p0 −70.93 ± 140.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 206.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.009457
Std Dev 0.3964
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

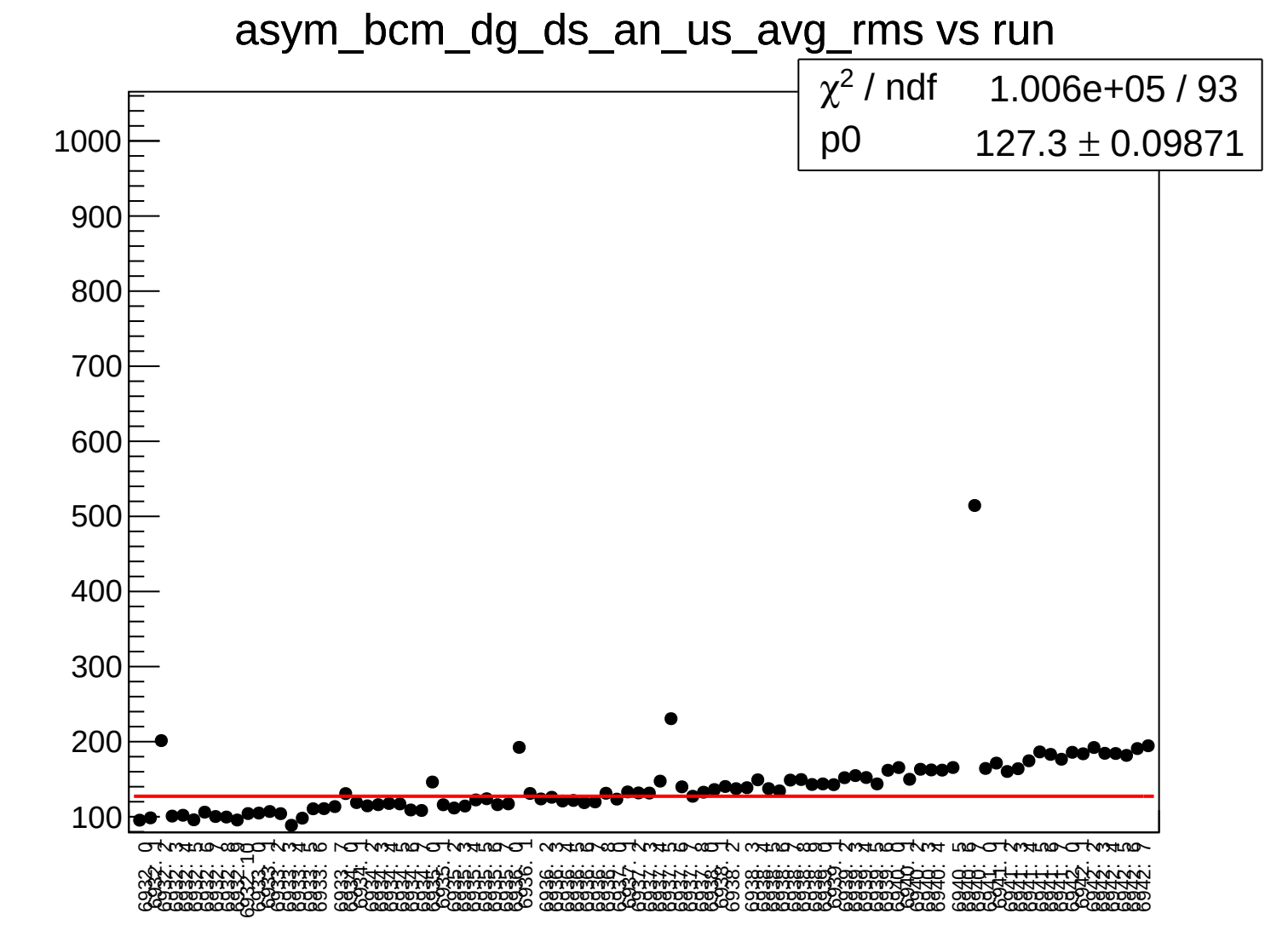

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 9.809e+04 / 93
p0 127.9 ± 0.09907
1000
800
600
400
200

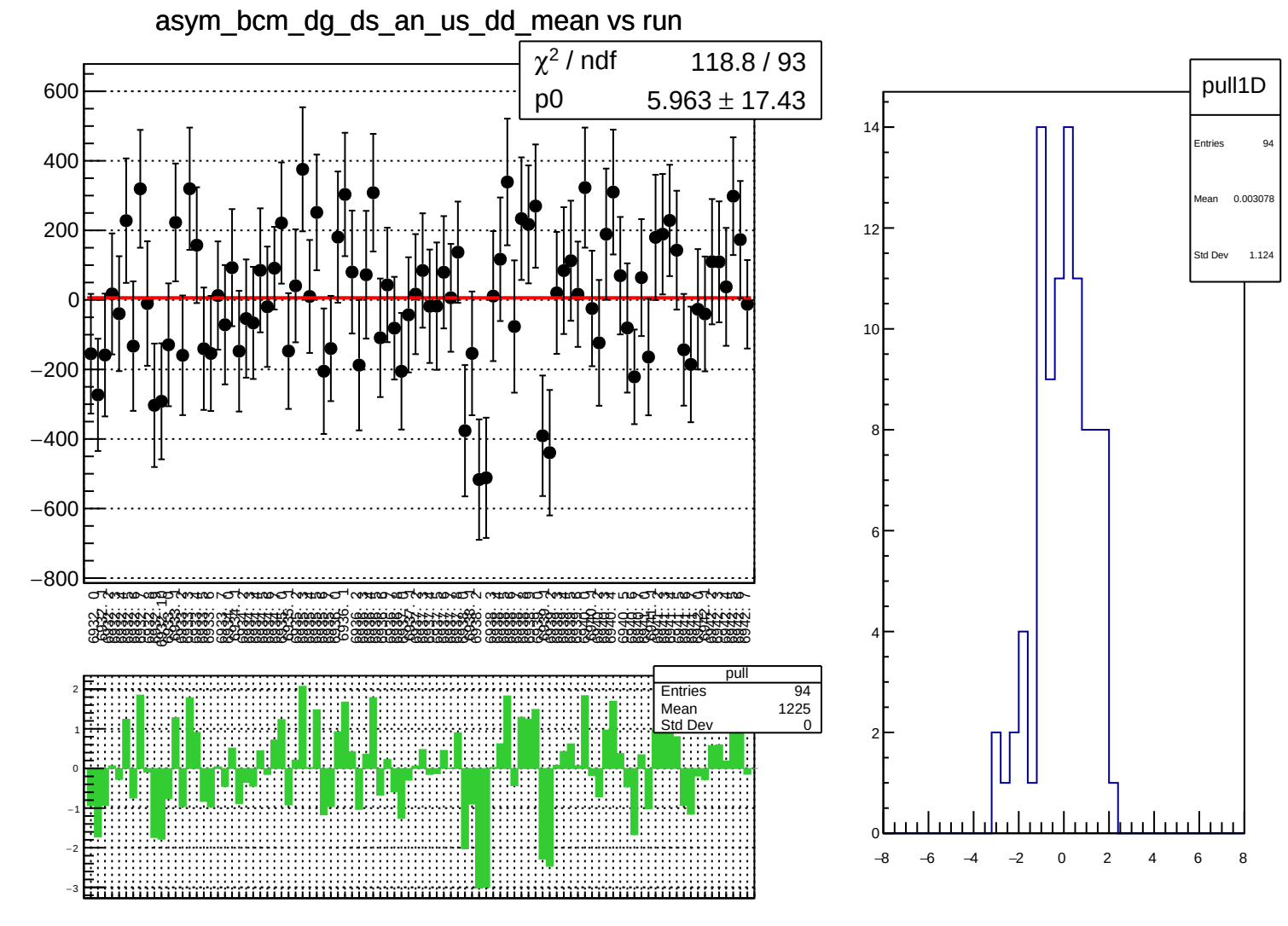

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 74.17 / 93
p0 19.33 ± 23.67
pull
Entries 94
Mean −152
Std Dev 0

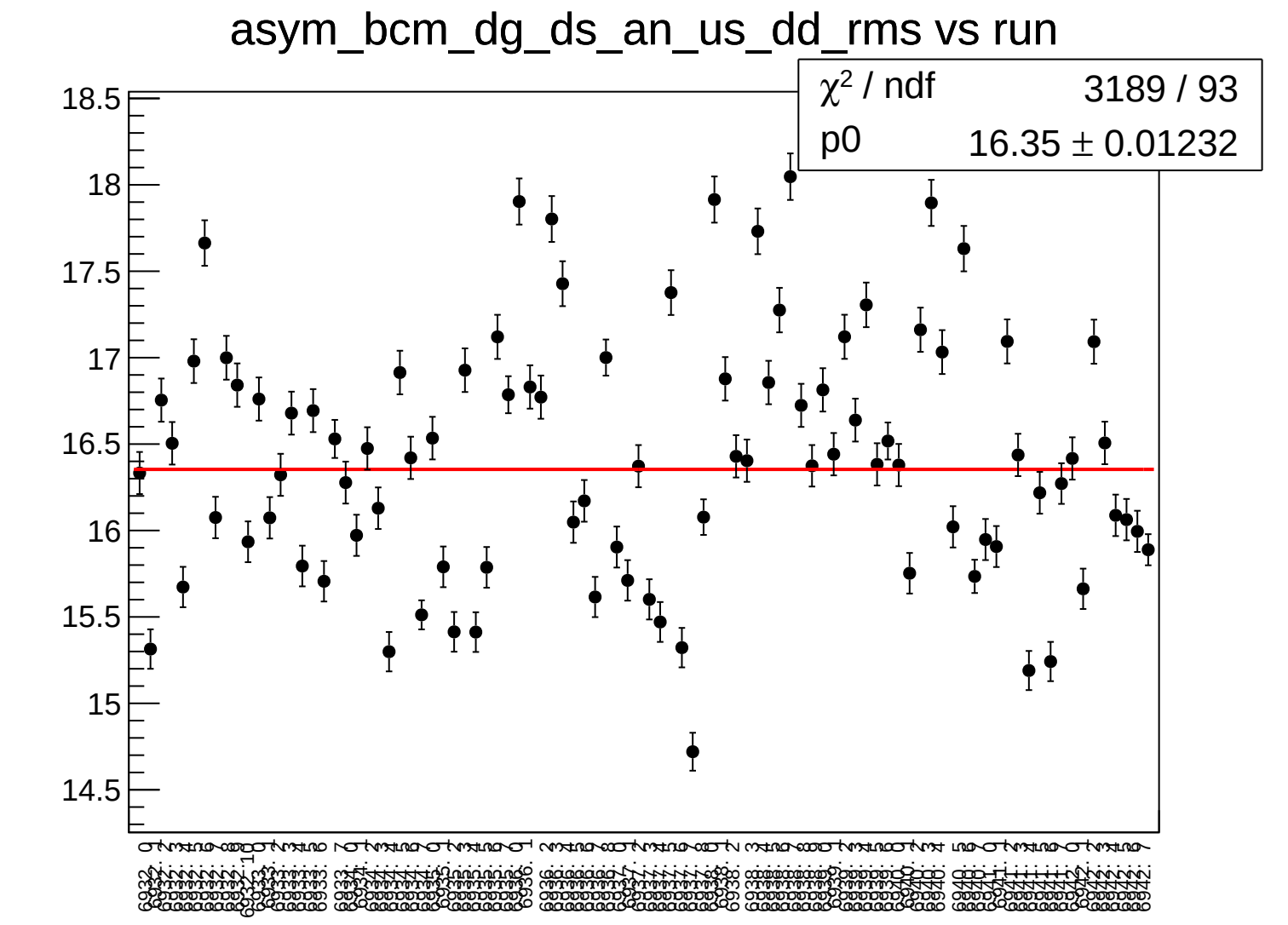

pull1D
Entries 94
Mean 0.008019
Std Dev 0.8882

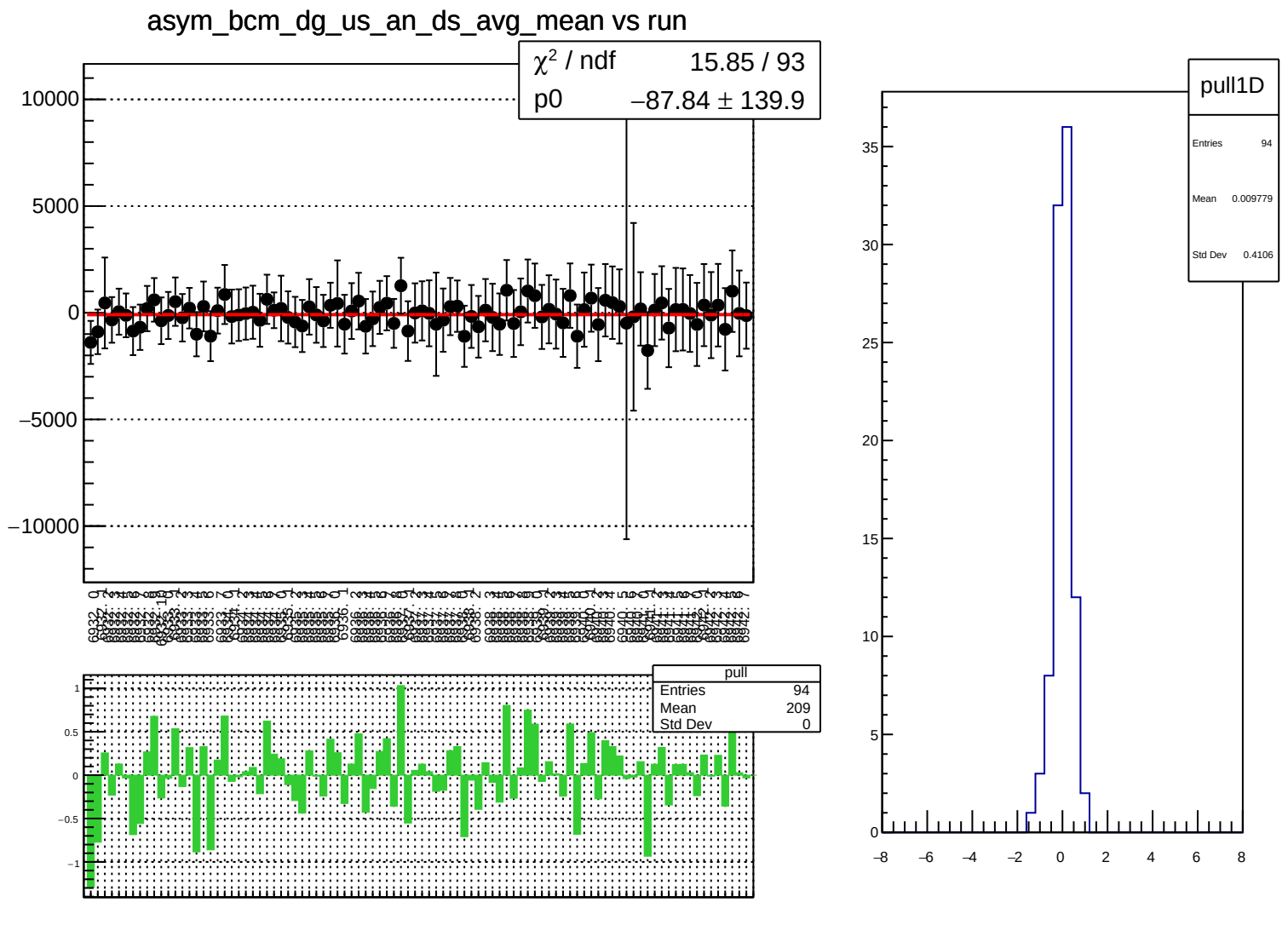

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 731.3 / 93
p0 22.23 ± 0.01674
24
23.5
23
22.5
22
21.5
21

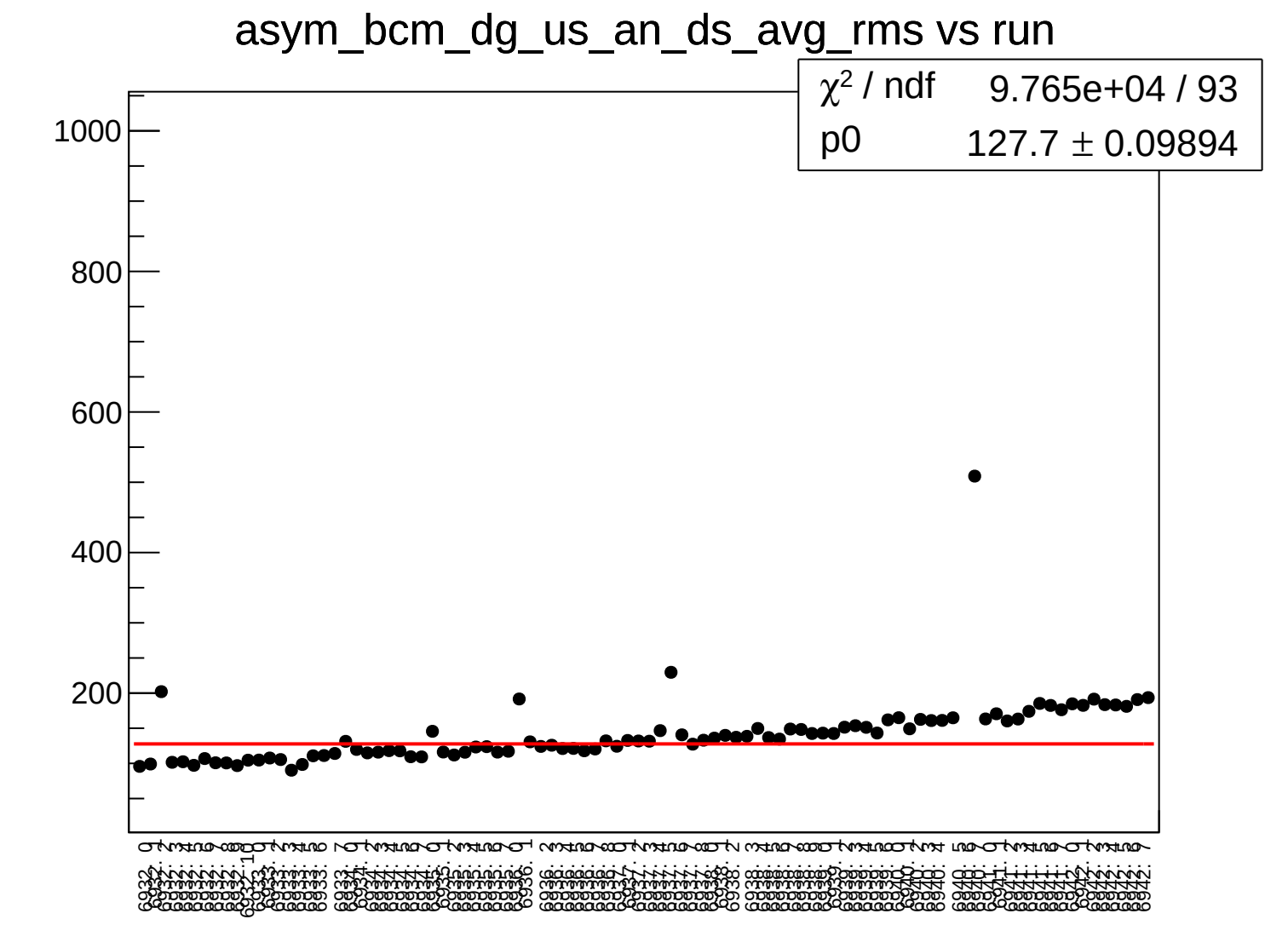

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 14.91 / 93
p0 −88.77 ± 139.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 251.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.01045
Std Dev 0.3982
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

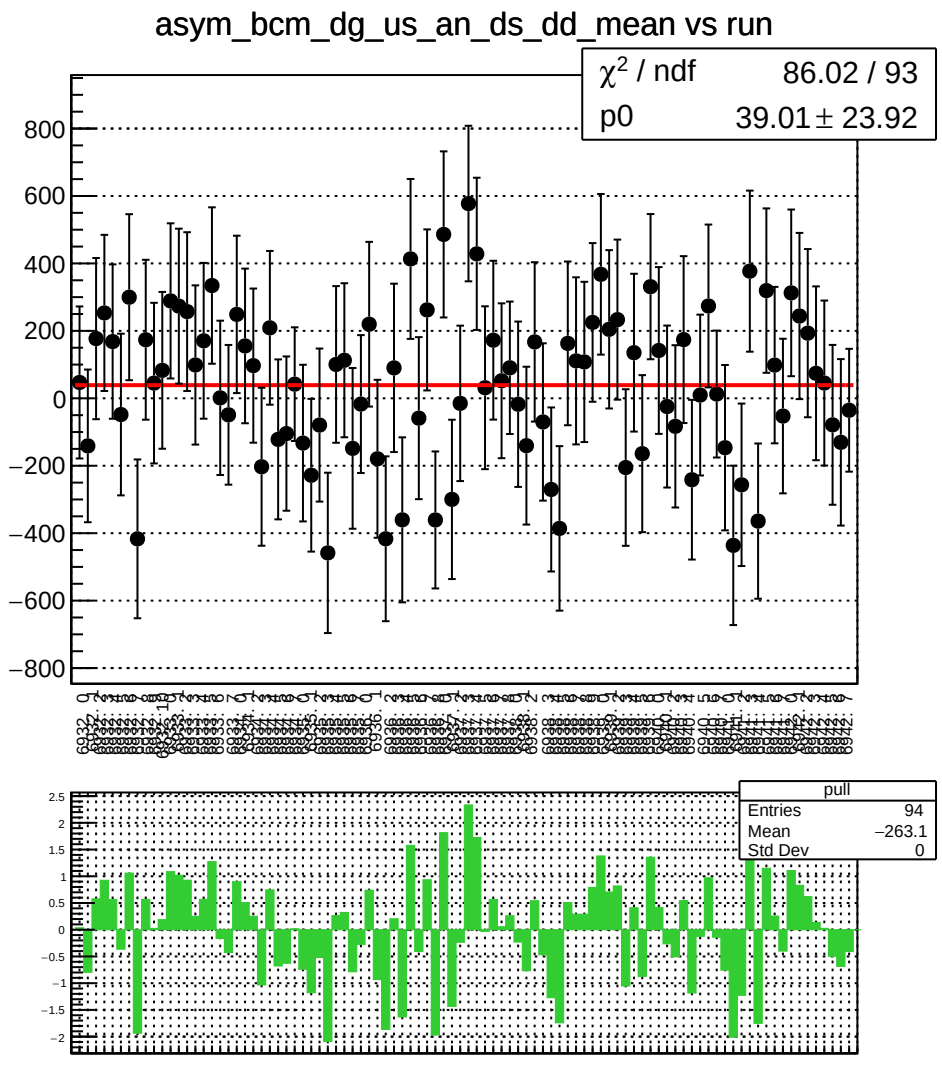

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.006e+05 / 93
p0 127.3 ± 0.09871
1000
900
800
700
600
500
400
300
200
100

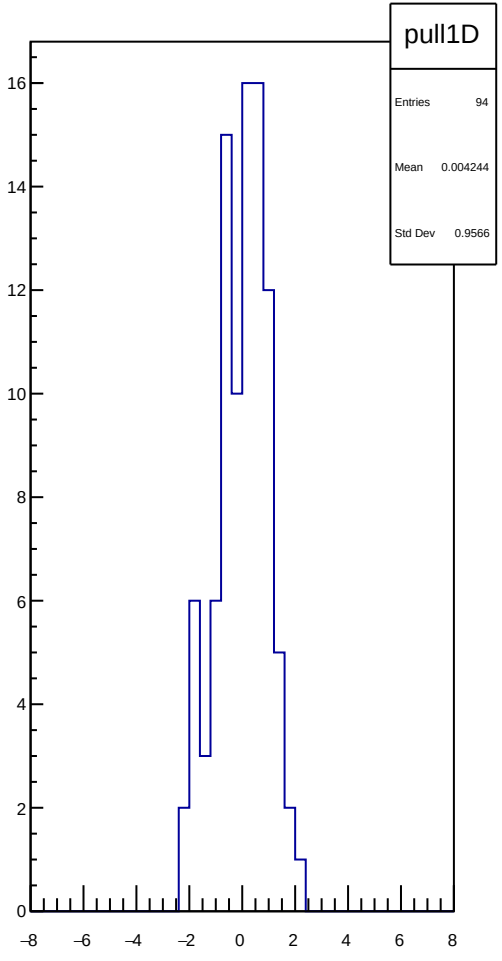

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 118.8 / 93
p0 5.963 ± 17.43
pull
Entries 94
Mean 1225
Std Dev 0
pull1D
Entries 94
Mean 0.003078
Std Dev 1.124

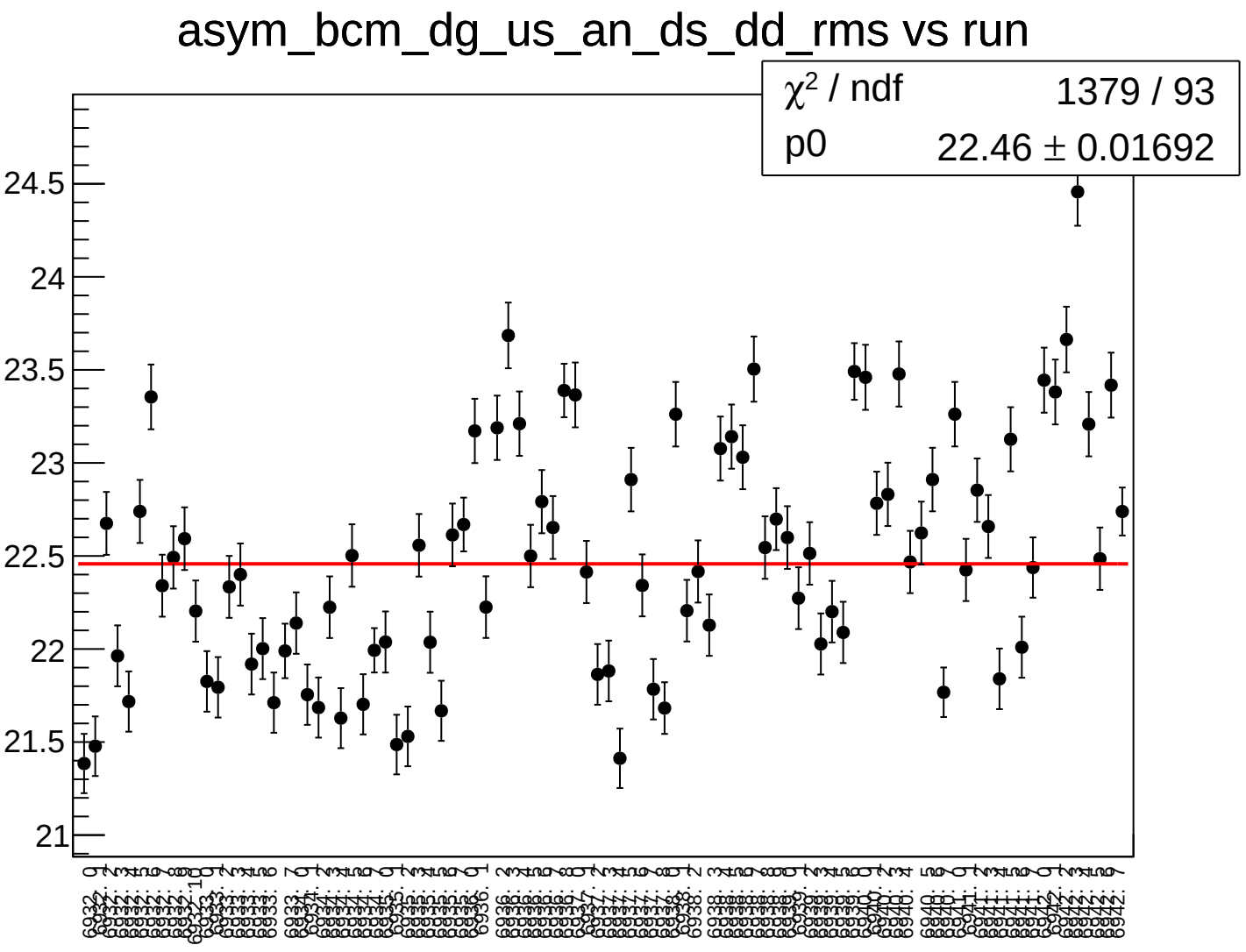

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 3189 / 93
p0 16.35 ± 0.01232
18.5
18
17.5
17
16.5
16
15.5
15
14.5

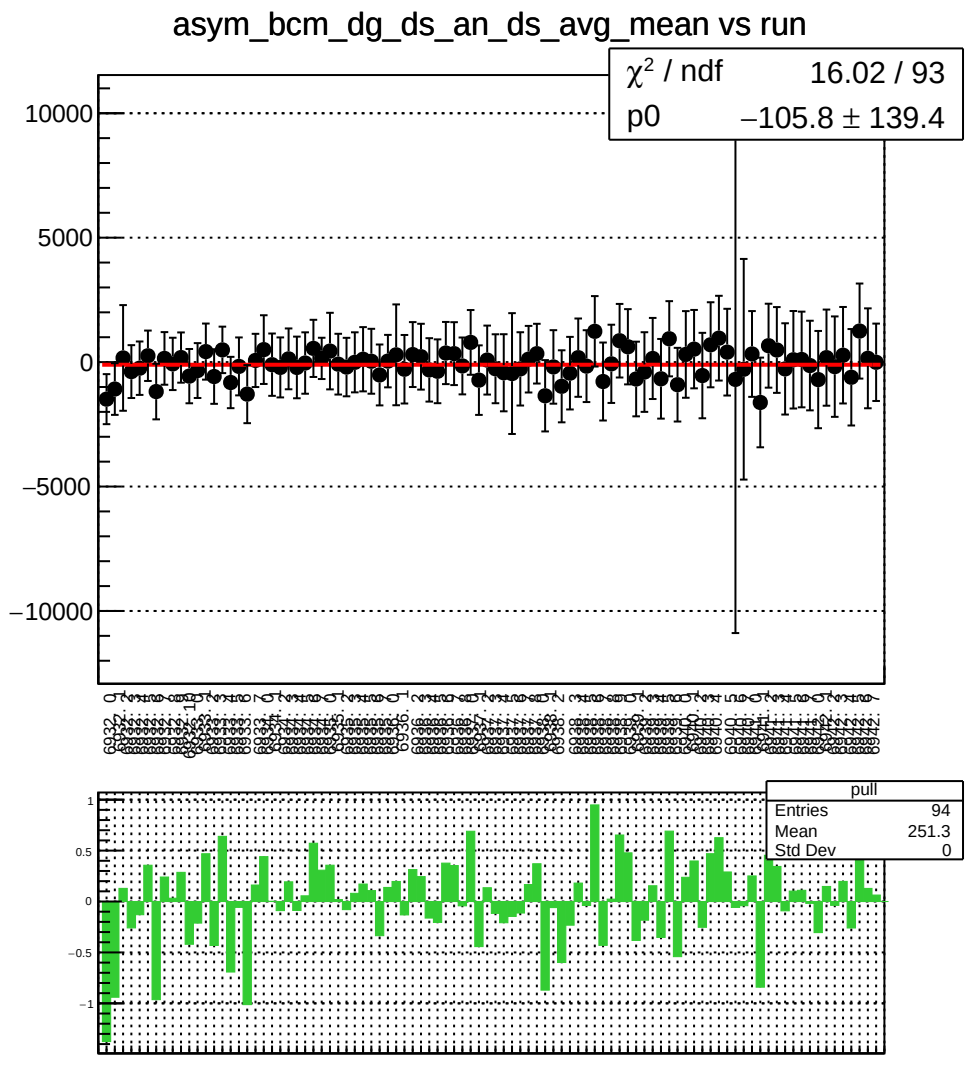

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 15.85 / 93
p0 −87.84 ± 139.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 209
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.009779
Std Dev 0.4106
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

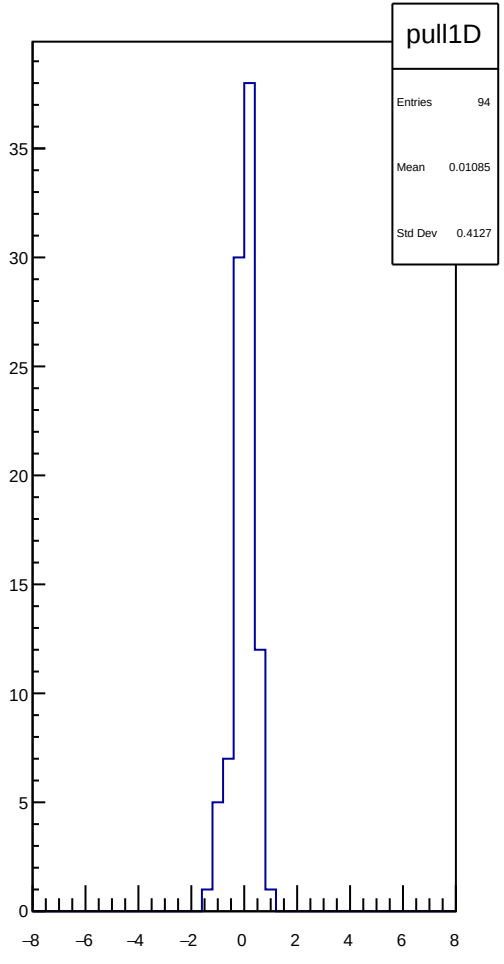

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 9.765e+04 / 93
p0 127.7 ± 0.09894
1000
800
600
400
200

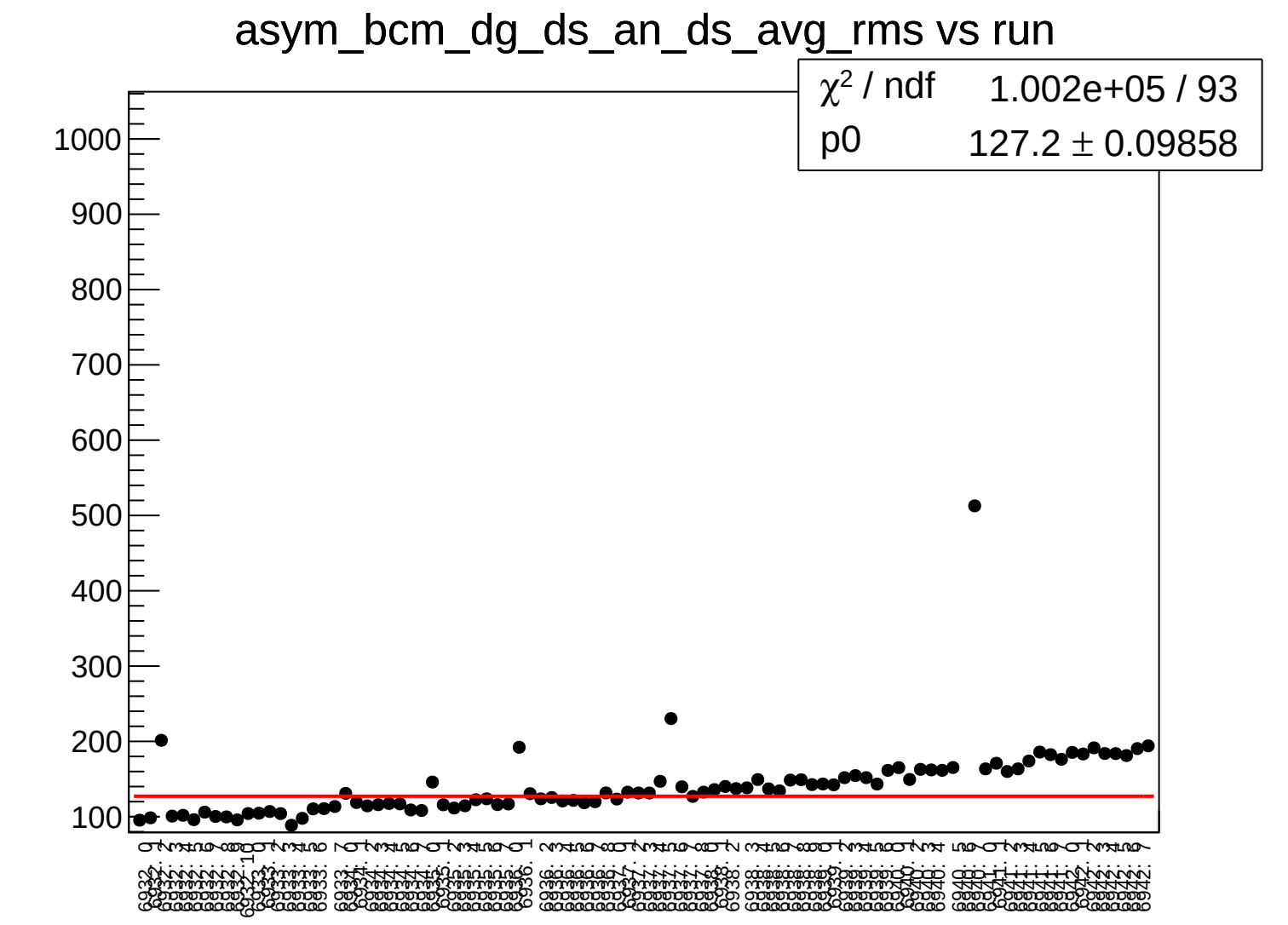

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 86.02 / 93
p0 39.01 ± 23.92
pull
Entries 94
Mean −263.1
Std Dev 0

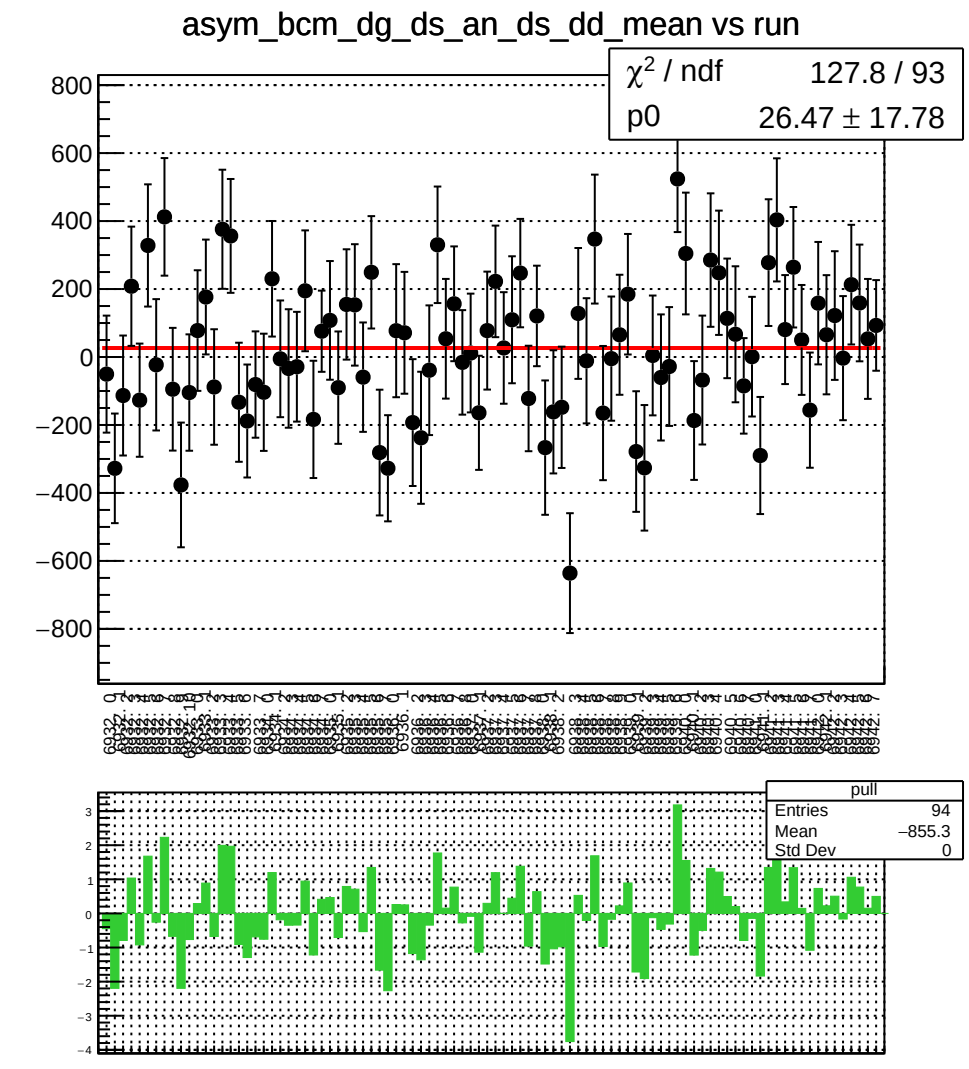

pull1D
Entries 94
Mean 0.004244
Std Dev 0.9566

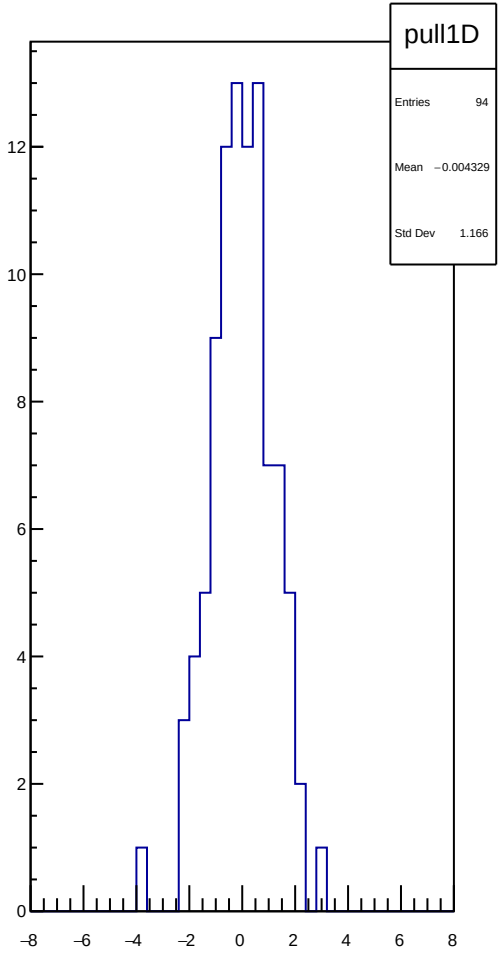

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1379 / 93
p0 22.46 ± 0.01692
24.5
24
23.5
23
22.5
22
21.5
21

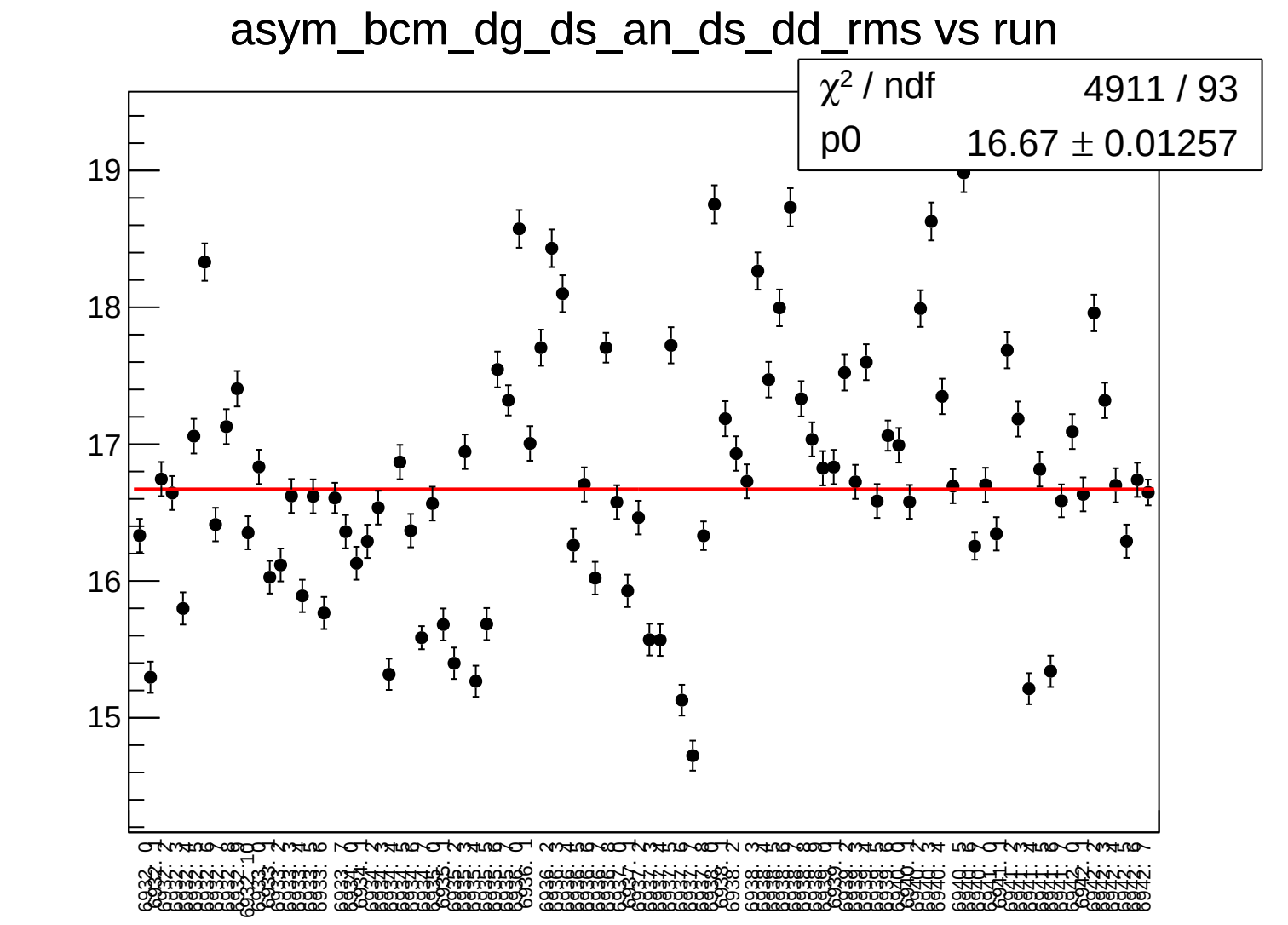

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 16.02 / 93
p0 −105.8 ± 139.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 251.3
Std Dev 0
1
0.5
0
−0.5
−1

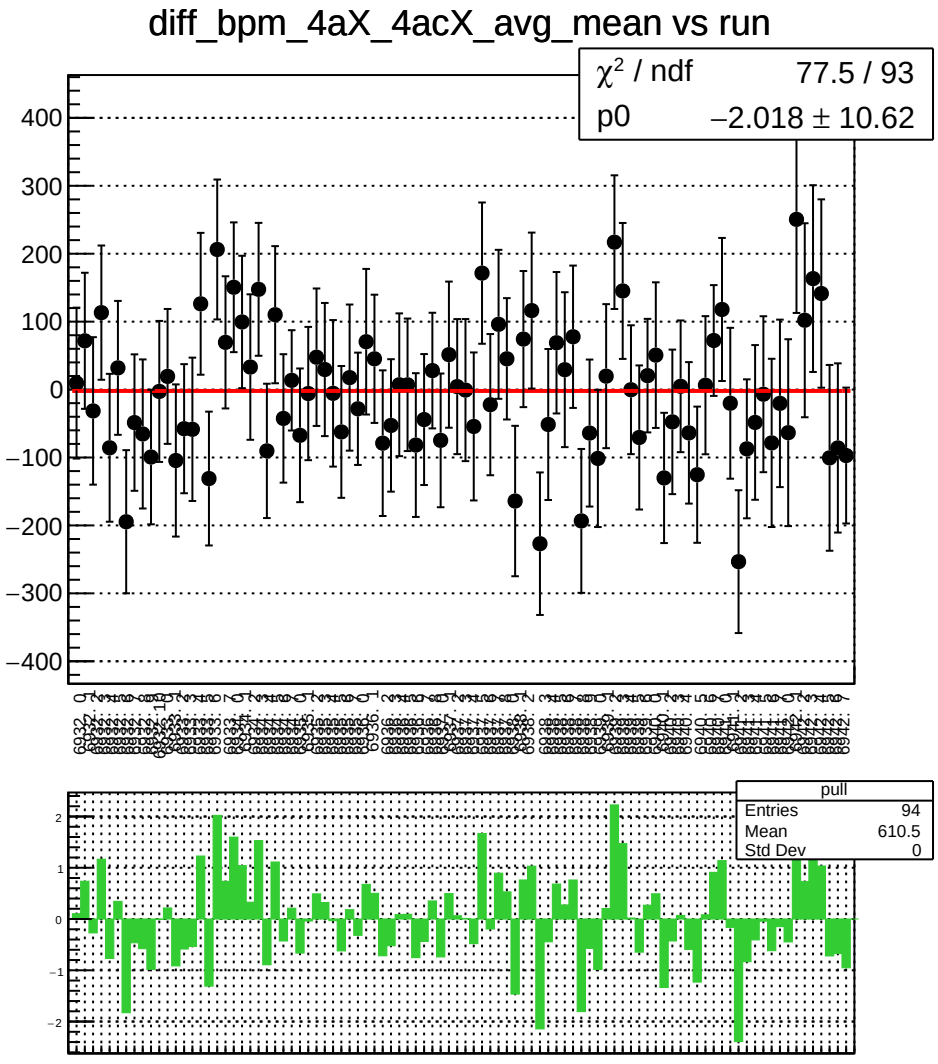

pull1D
Entries 94
Mean 0.01085
Std Dev 0.4127
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

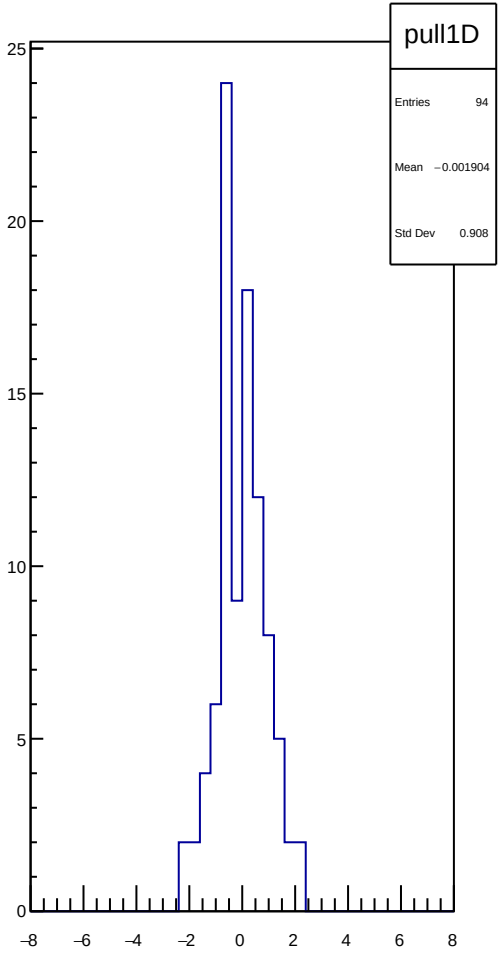

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.002e+05 / 93
p0 127.2 ± 0.09858
1000
900
800
700
600
500
400
300
200
100

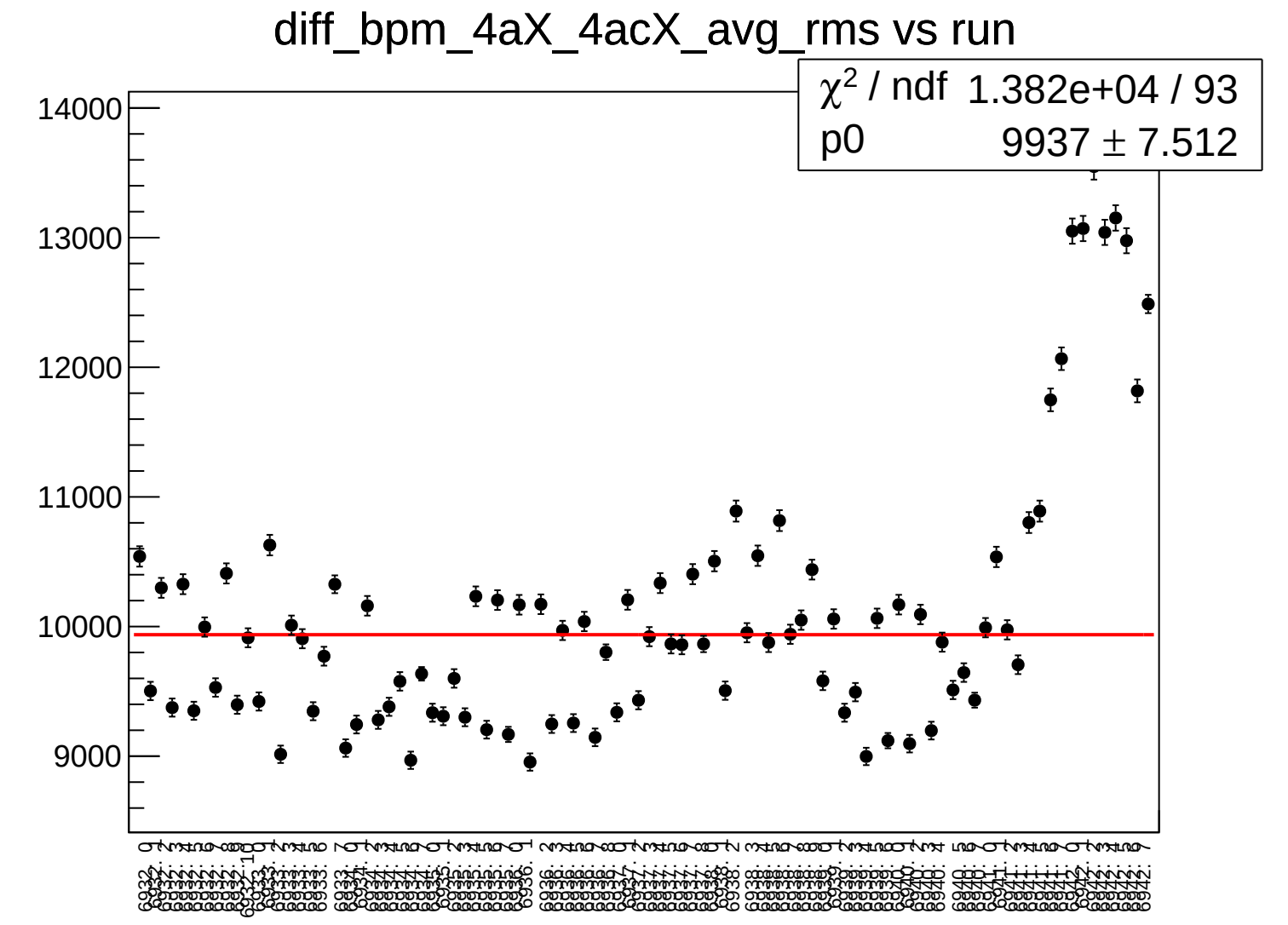

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 127.8 / 93
p0 26.47 ± 17.78
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 94
Mean −855.3
Std Dev 0
3
2
1
0
−1
−2
−3
−4

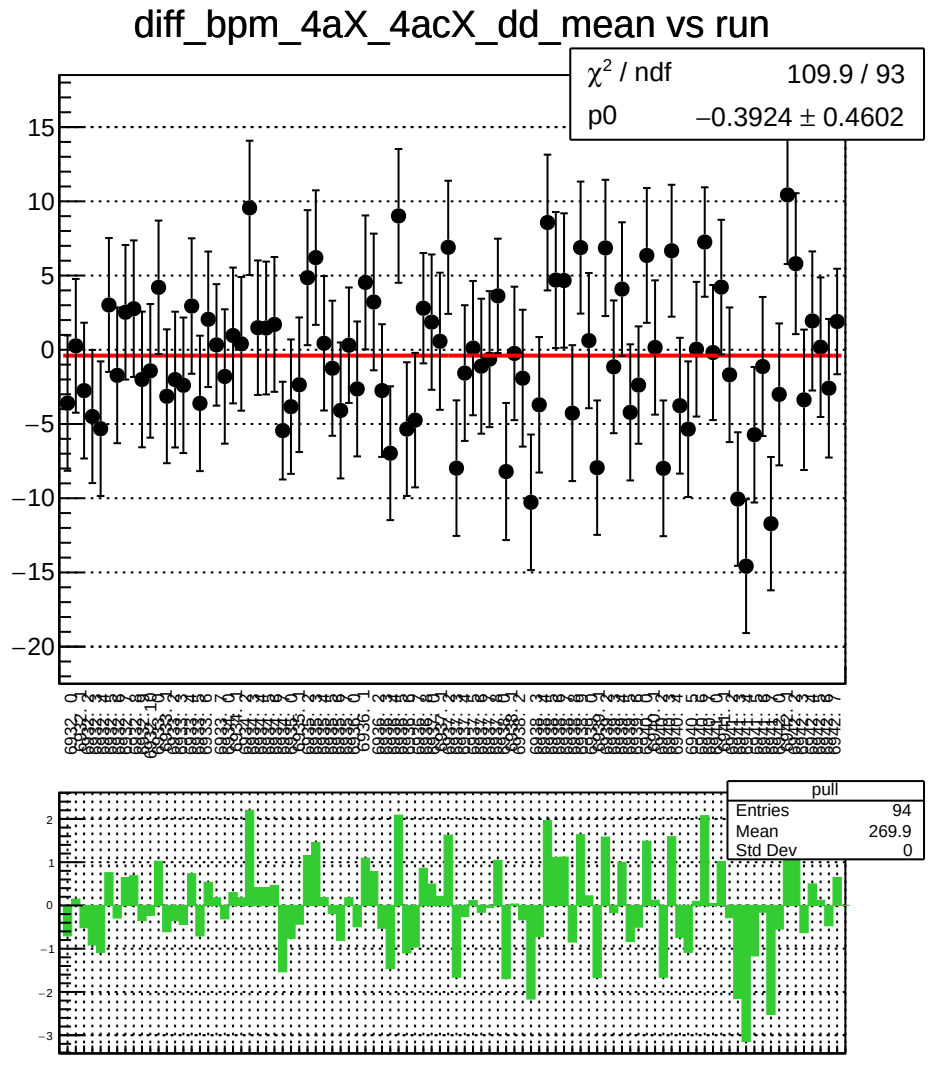

pull1D
Entries 94
Mean −0.004329
Std Dev 1.166
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

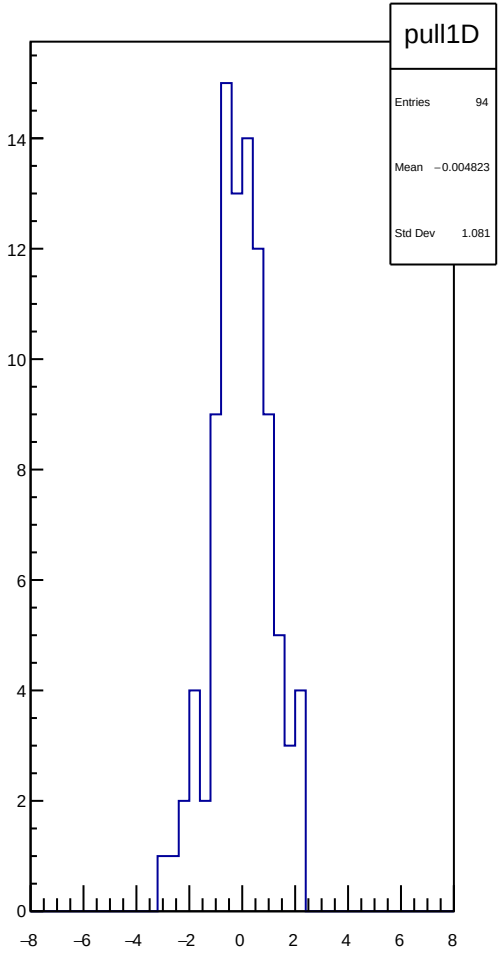

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4911 / 93
p0 16.67 ± 0.01257
19
18
17
16
15

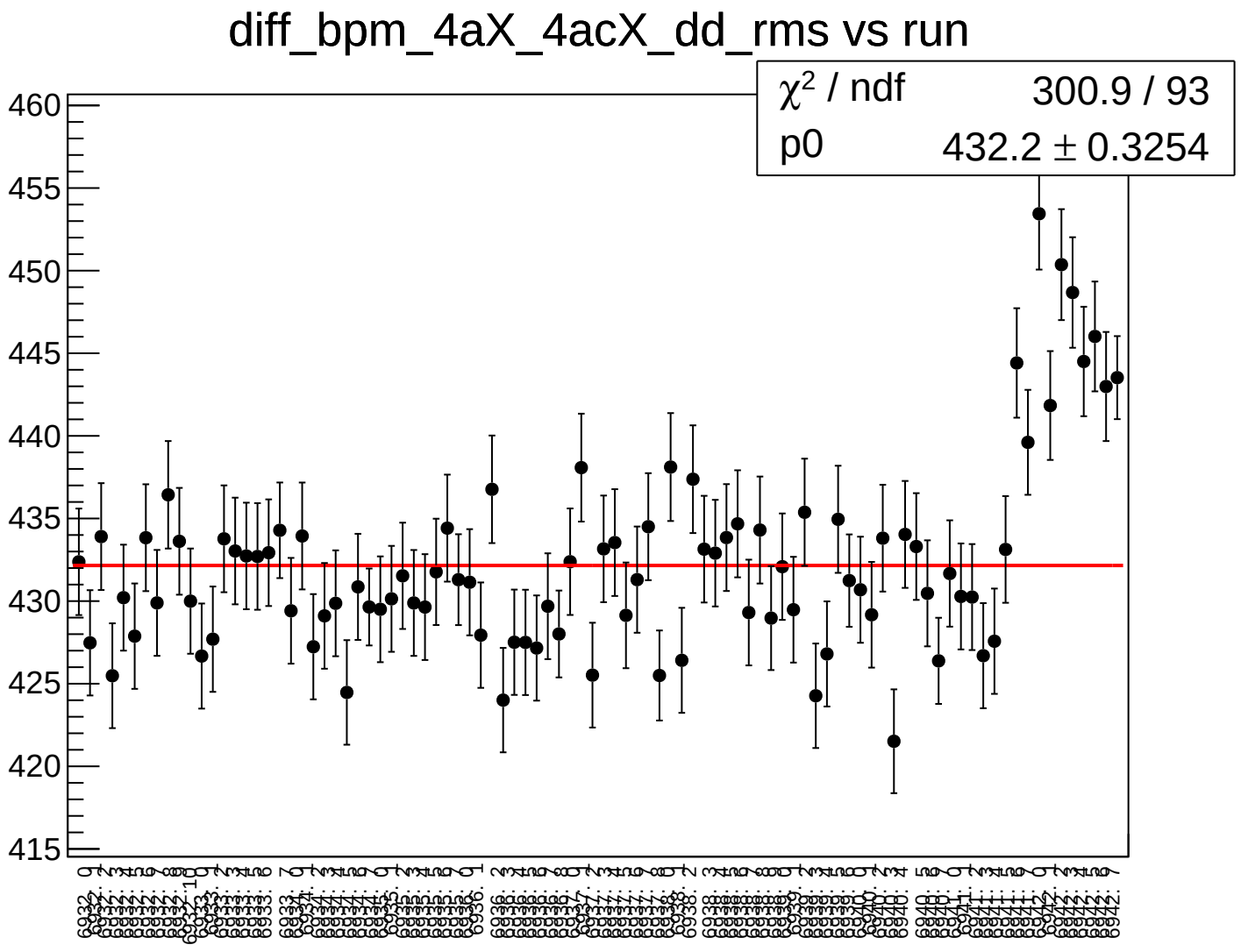

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 77.5 / 93
p0 −2.018 ± 10.62
pull
Entries 94
Mean 610.5
Std Dev 0

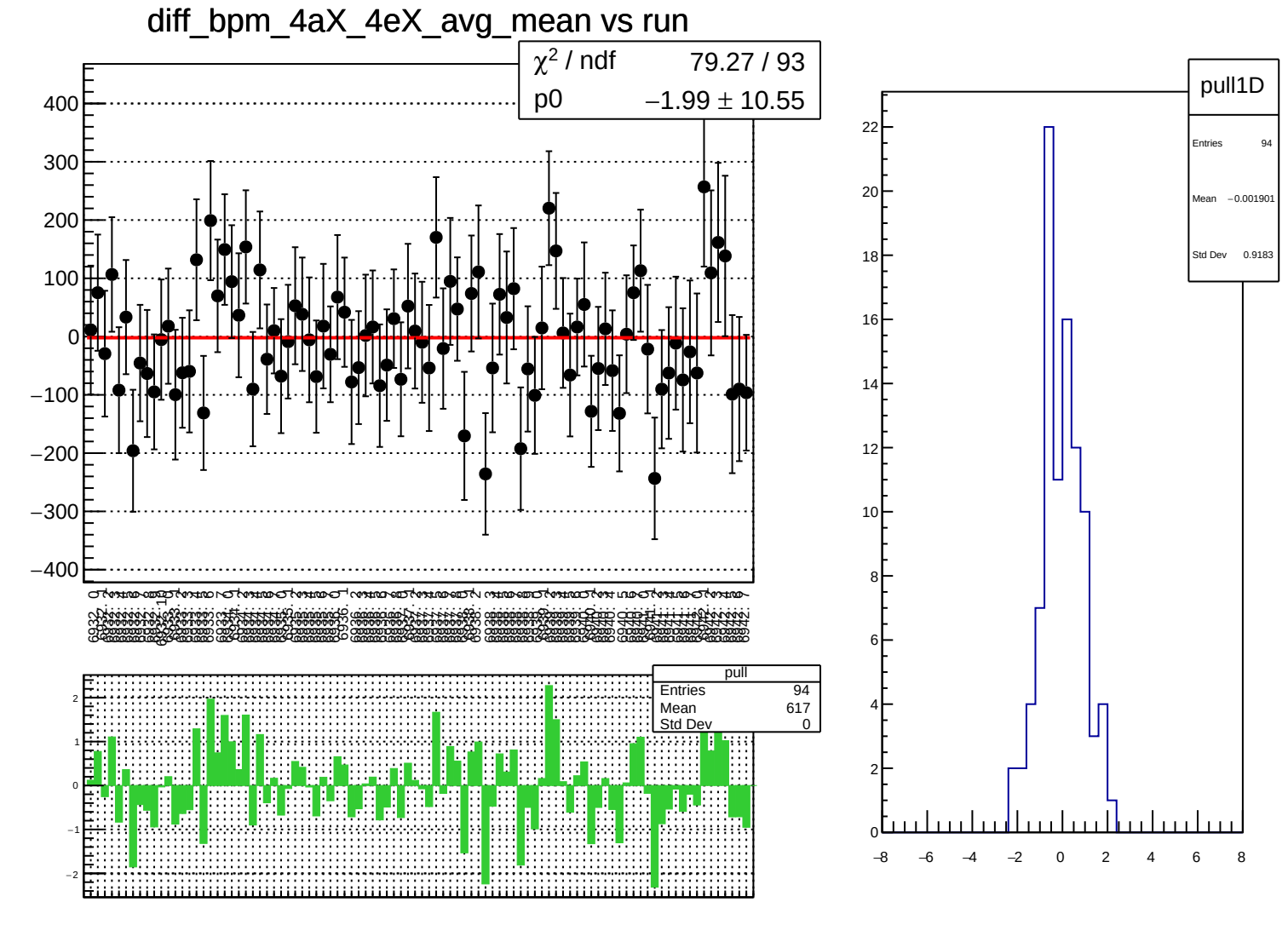

pull1D
Entries 94
Mean −0.001904
Std Dev 0.908

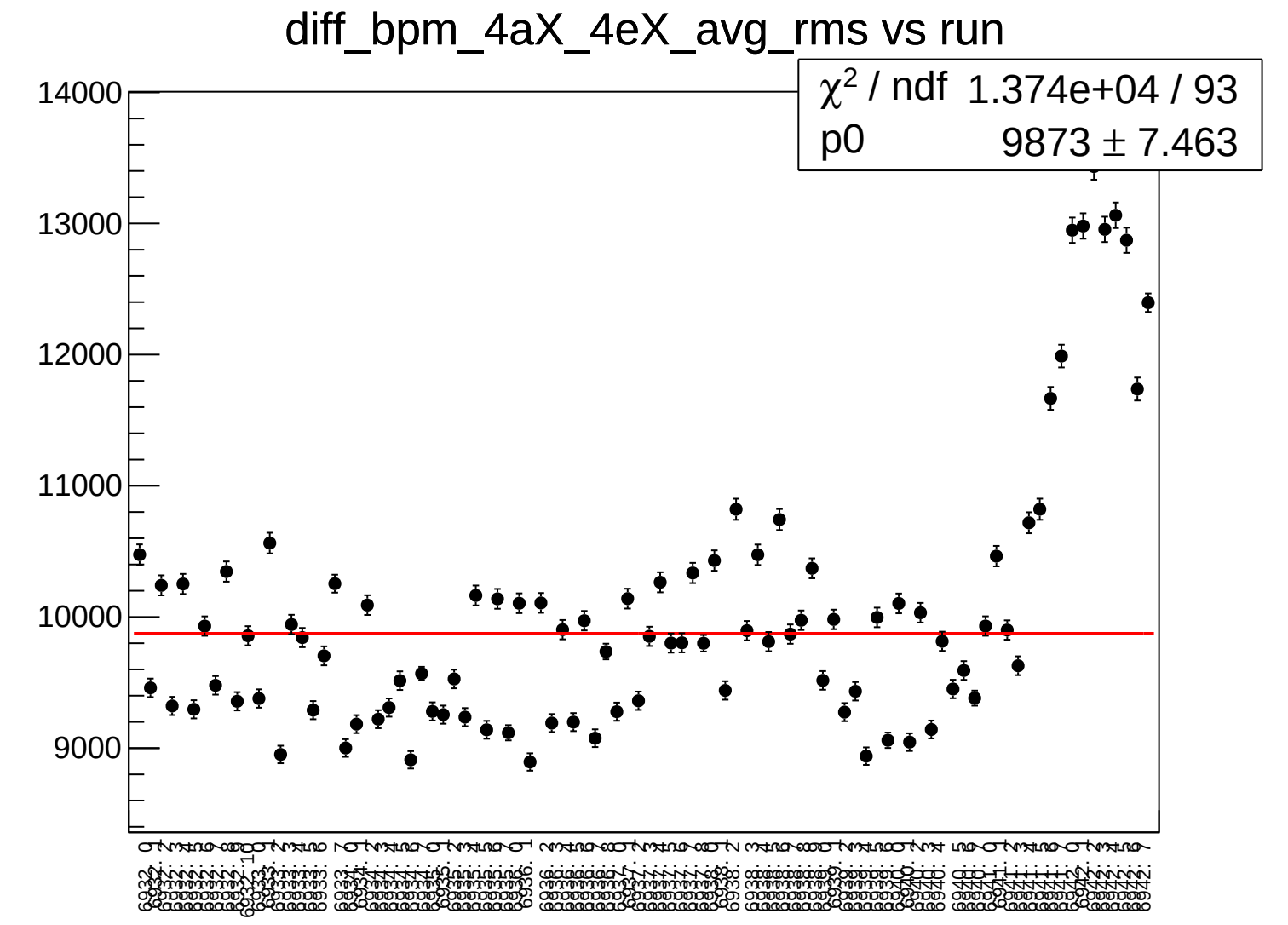

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 1.382e+04 / 93
p0 9937 ± 7.512
14000
13000
12000
11000
10000
9000

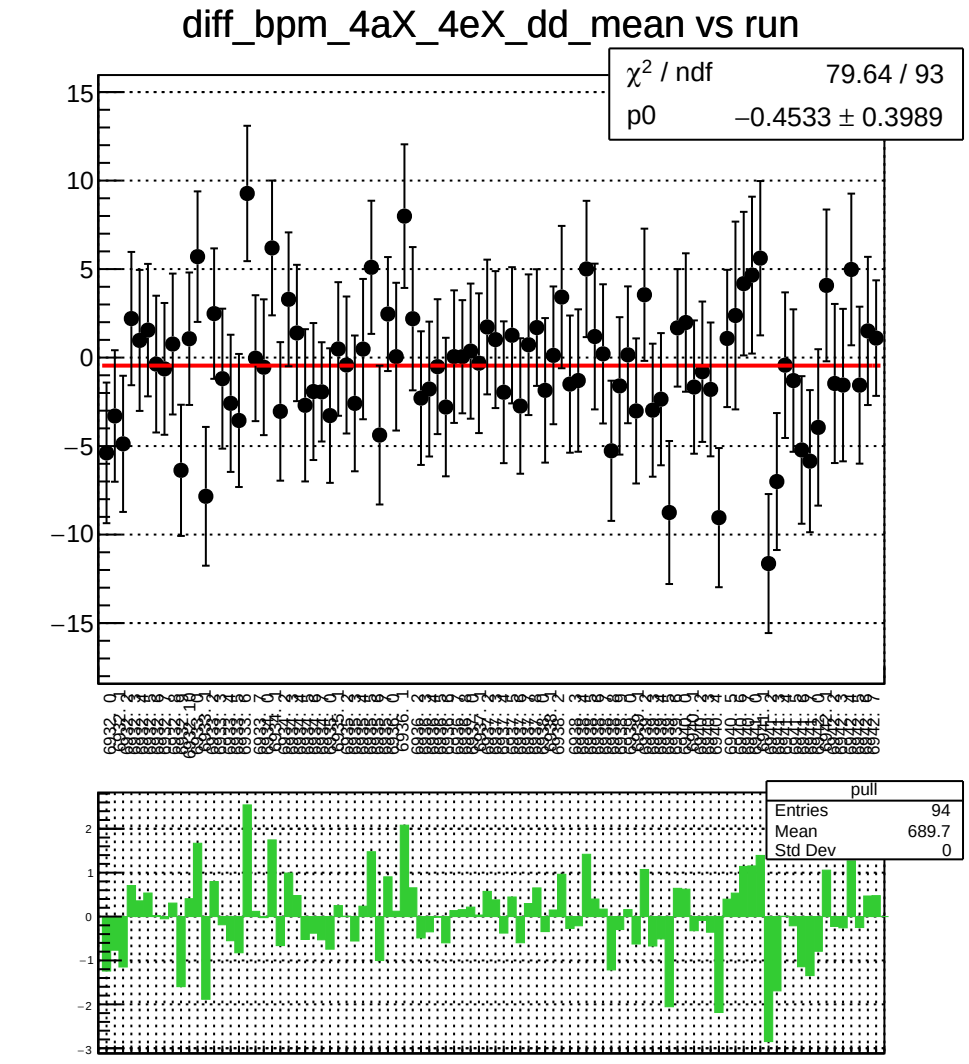

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 109.9 / 93
p0 −0.3924 ± 0.4602
pull
Entries 94
Mean 269.9
Std Dev 0

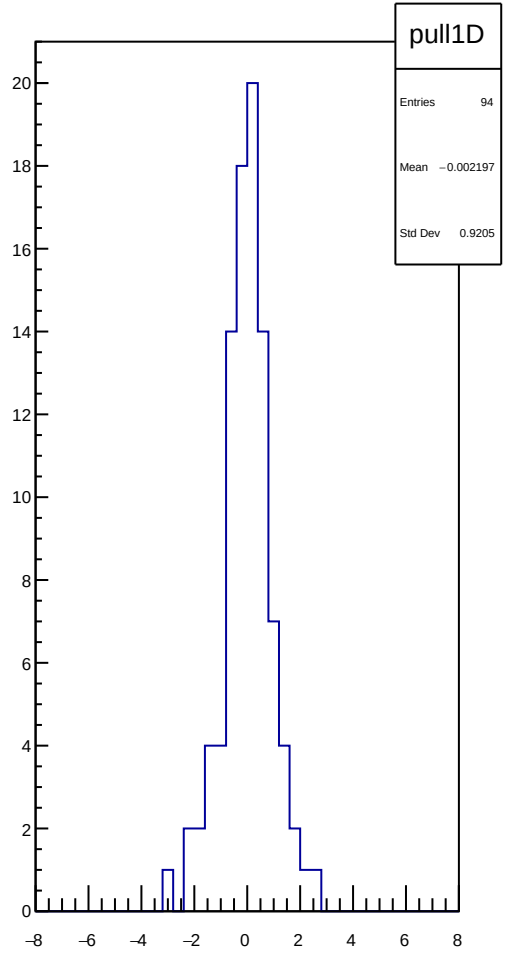

pull1D
Entries 94
Mean −0.004823
Std Dev 1.081

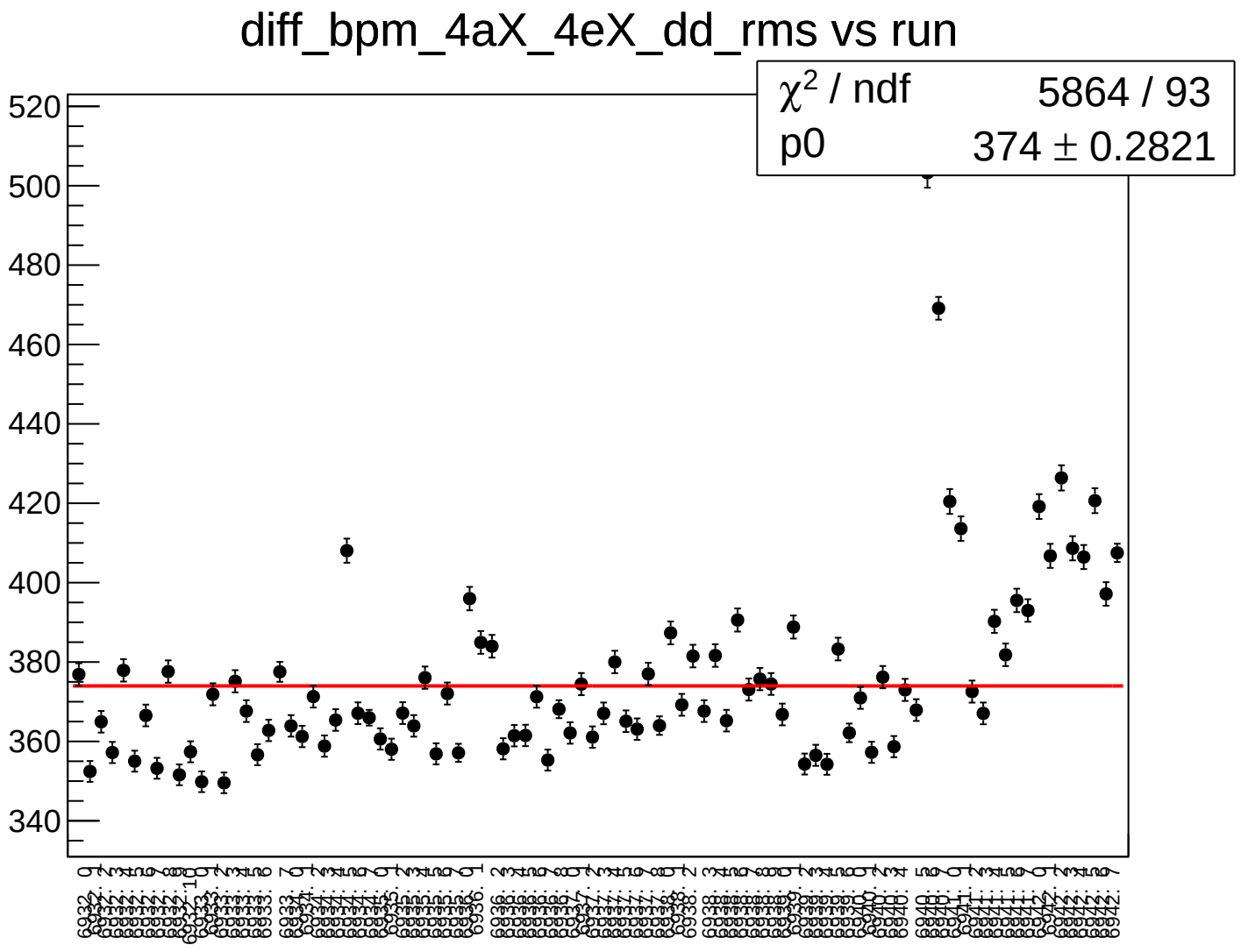

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 300.9 / 93
p0 432.2 ± 0.3254
460
455
450
445
440
435
430
425
420
415

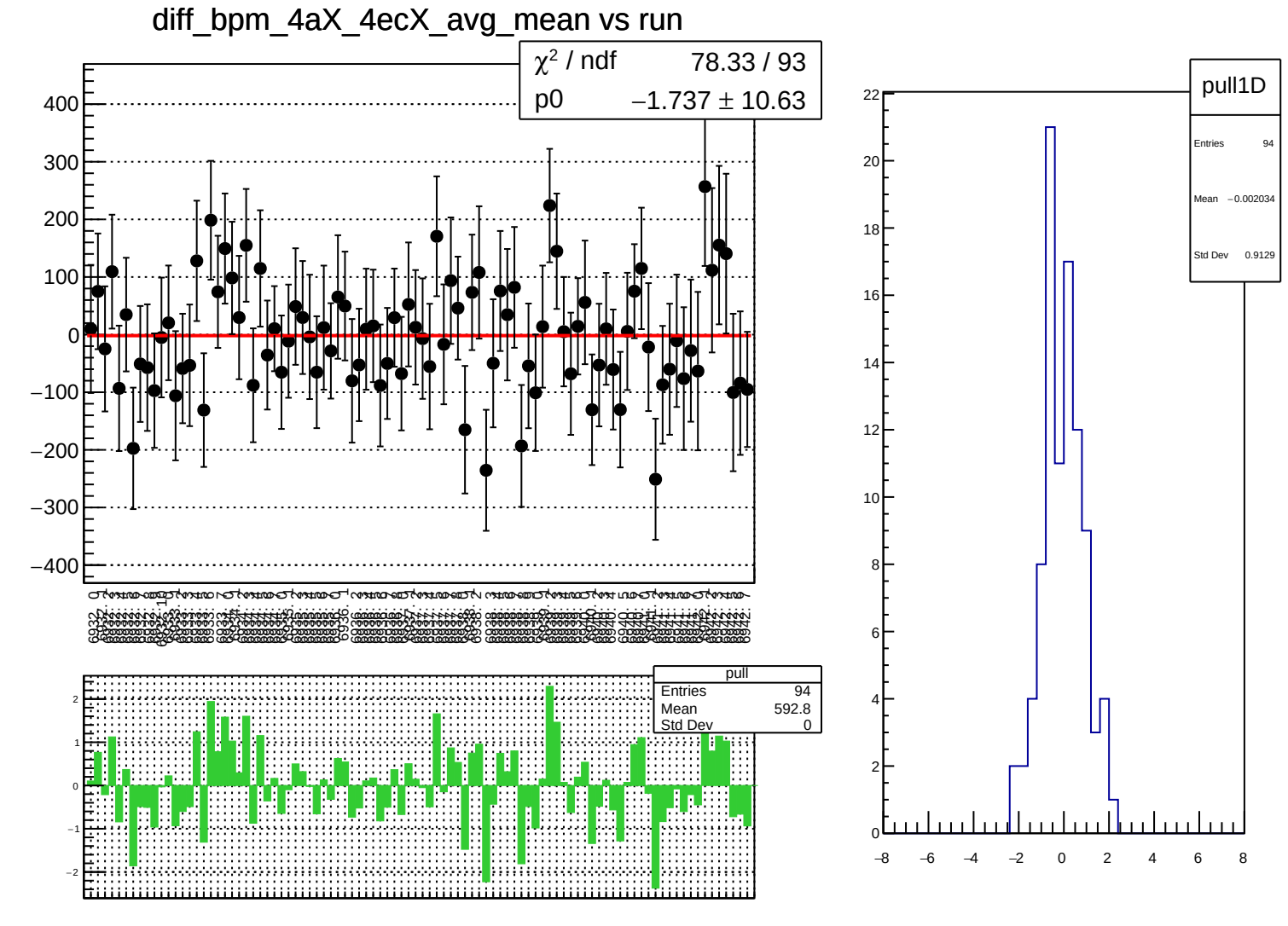

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 79.27 / 93
p0 −1.99 ± 10.55
pull
Entries 94
Mean 617
Std Dev 0
pull1D
Entries 94
Mean −0.001901
Std Dev 0.9183

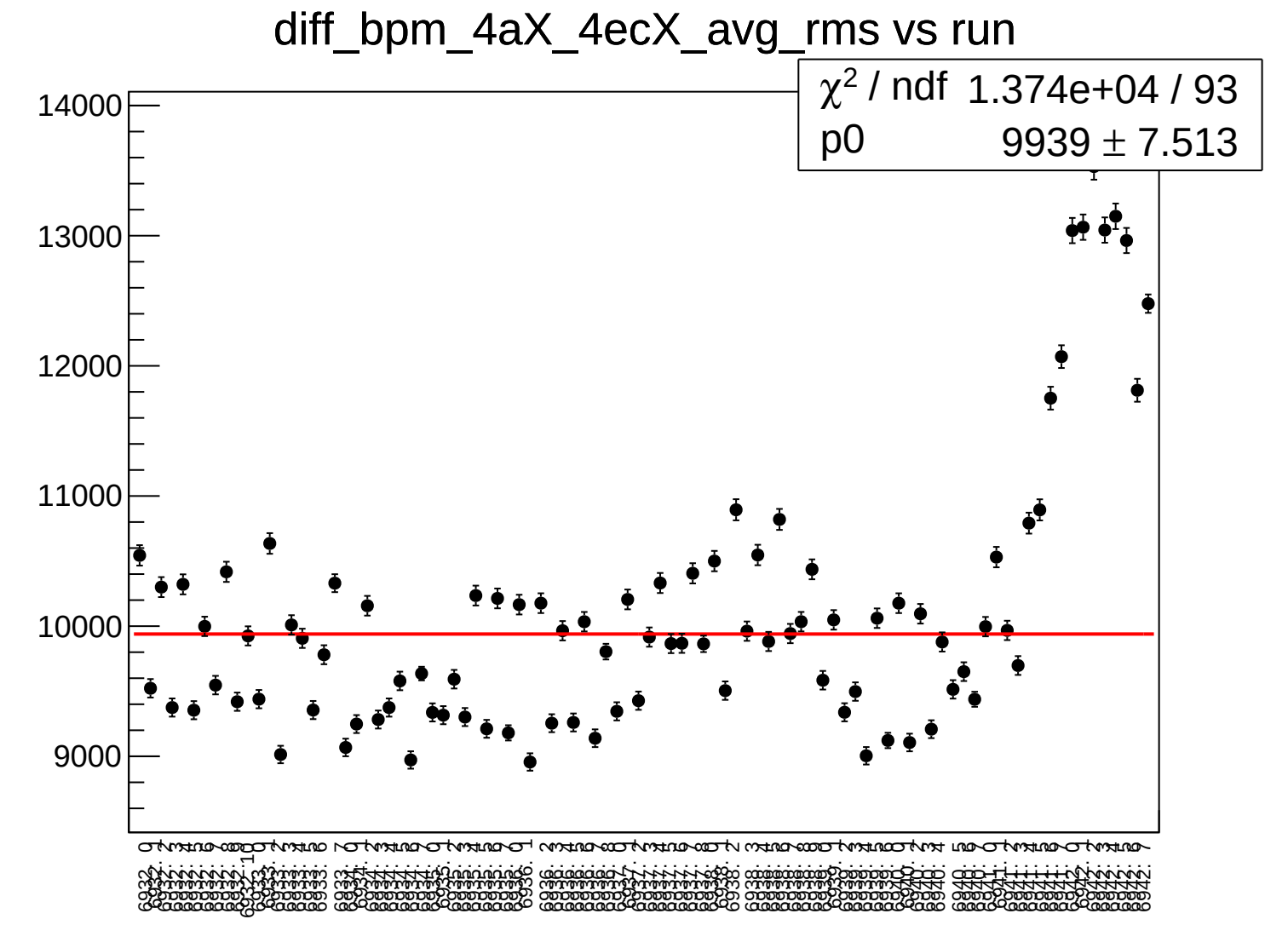

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.374e+04 / 93
p0 9873 ± 7.463
14000
13000
12000
11000
10000
9000

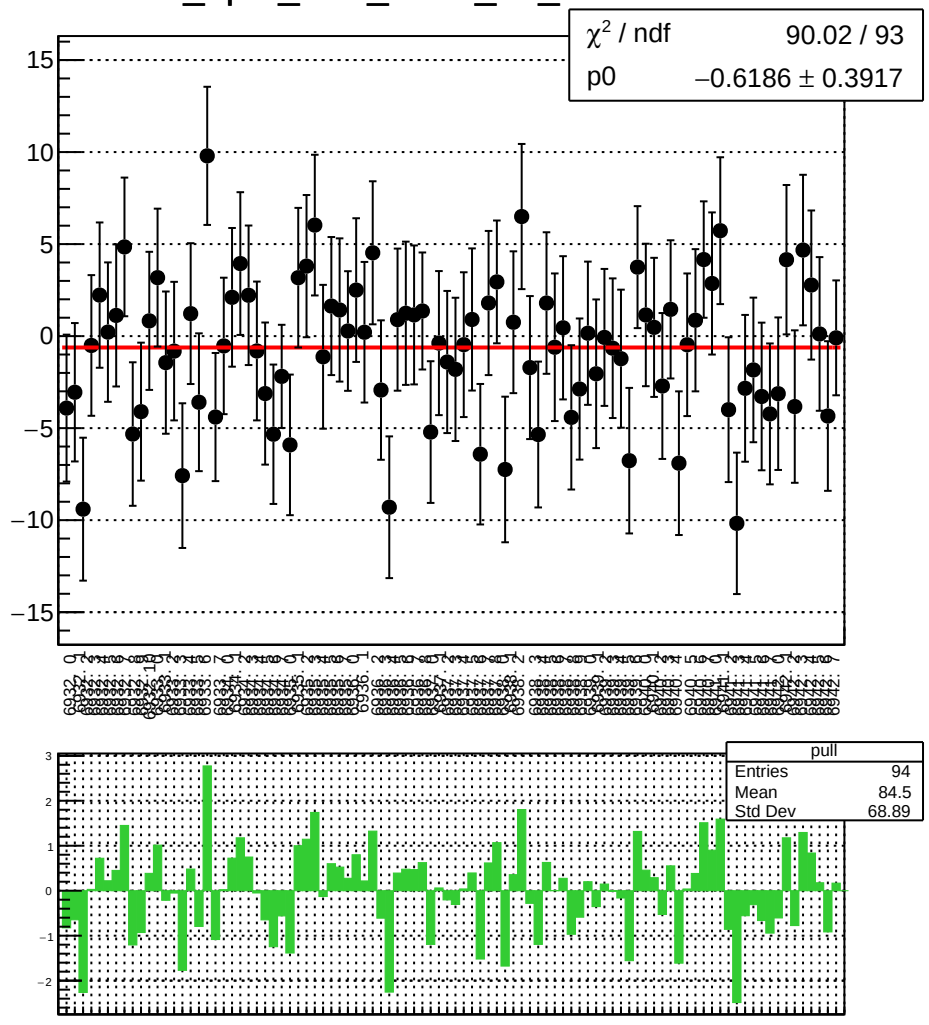

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 79.64 / 93
p0 −0.4533 ± 0.3989
pull
Entries 94
Mean 689.7
Std Dev 0

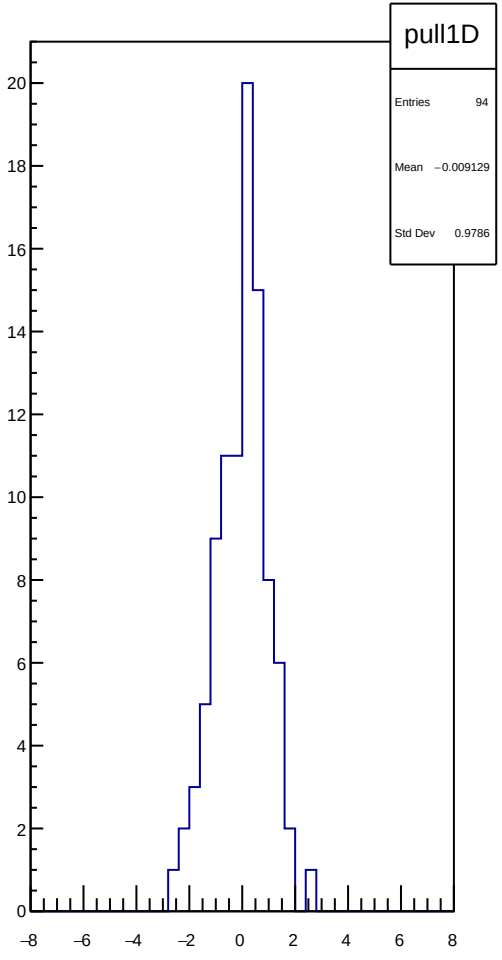

pull1D
Entries 94
Mean −0.002197
Std Dev 0.9205

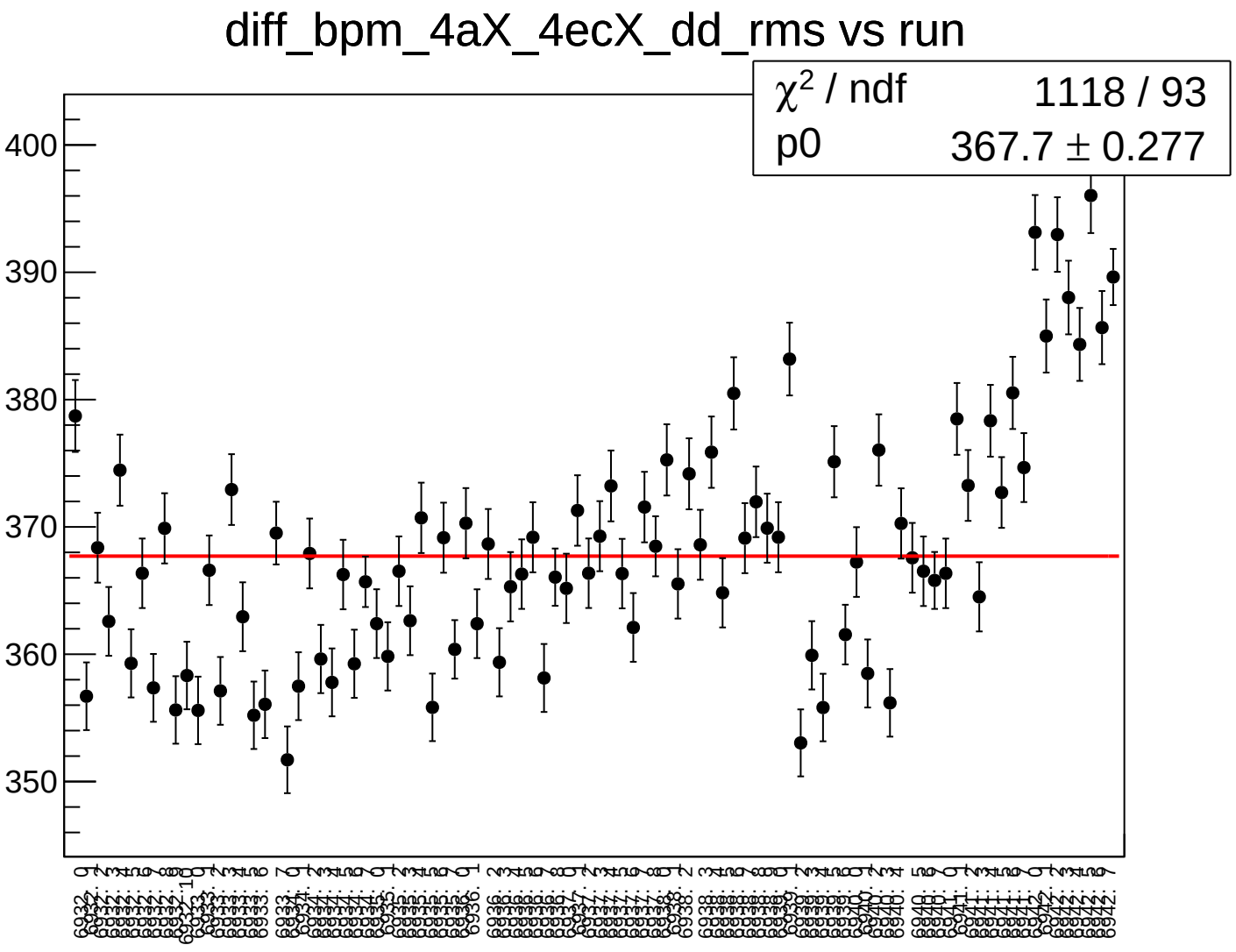

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 5864 / 93
p0 374 ± 0.2821
520
500
480
460
440
420
400
380
360
340

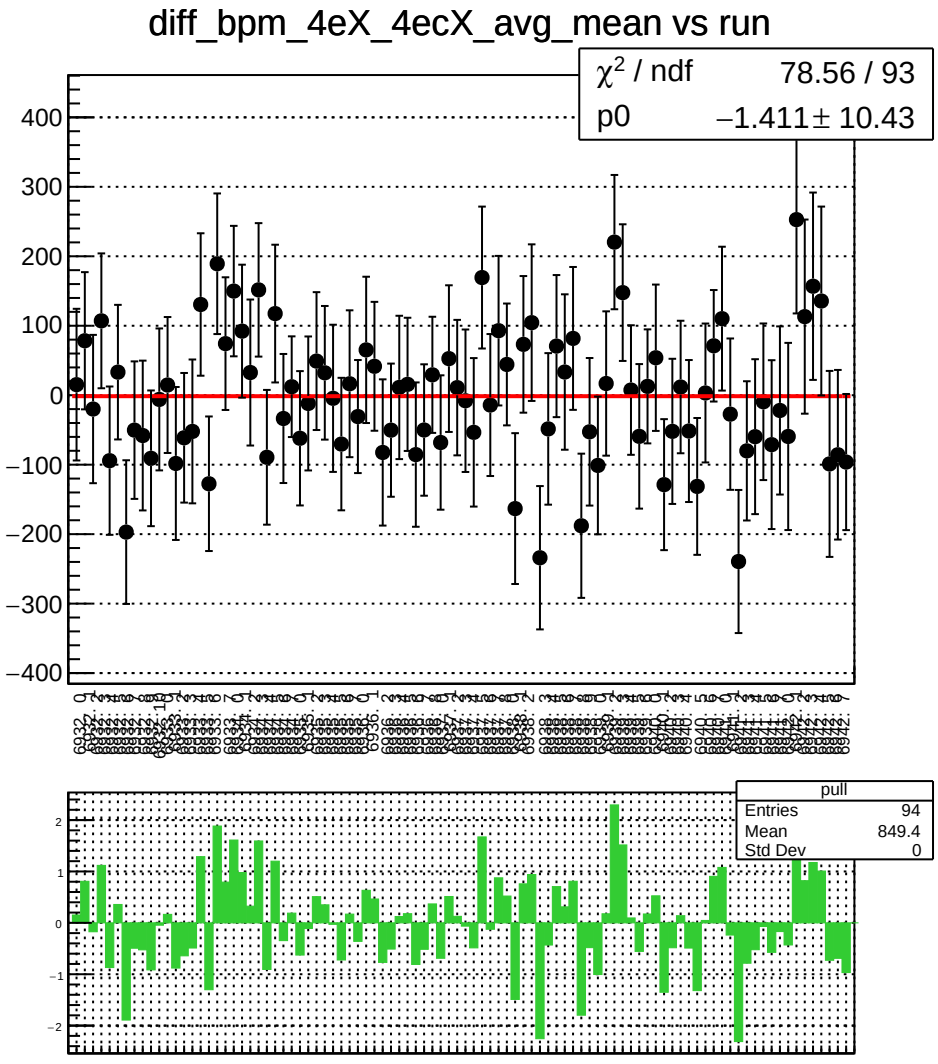

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 78.33 / 93
p0 −1.737 ± 10.63
pull
Entries 94
Mean 592.8
Std Dev 0
pull1D
Entries 94
Mean −0.002034
Std Dev 0.9129

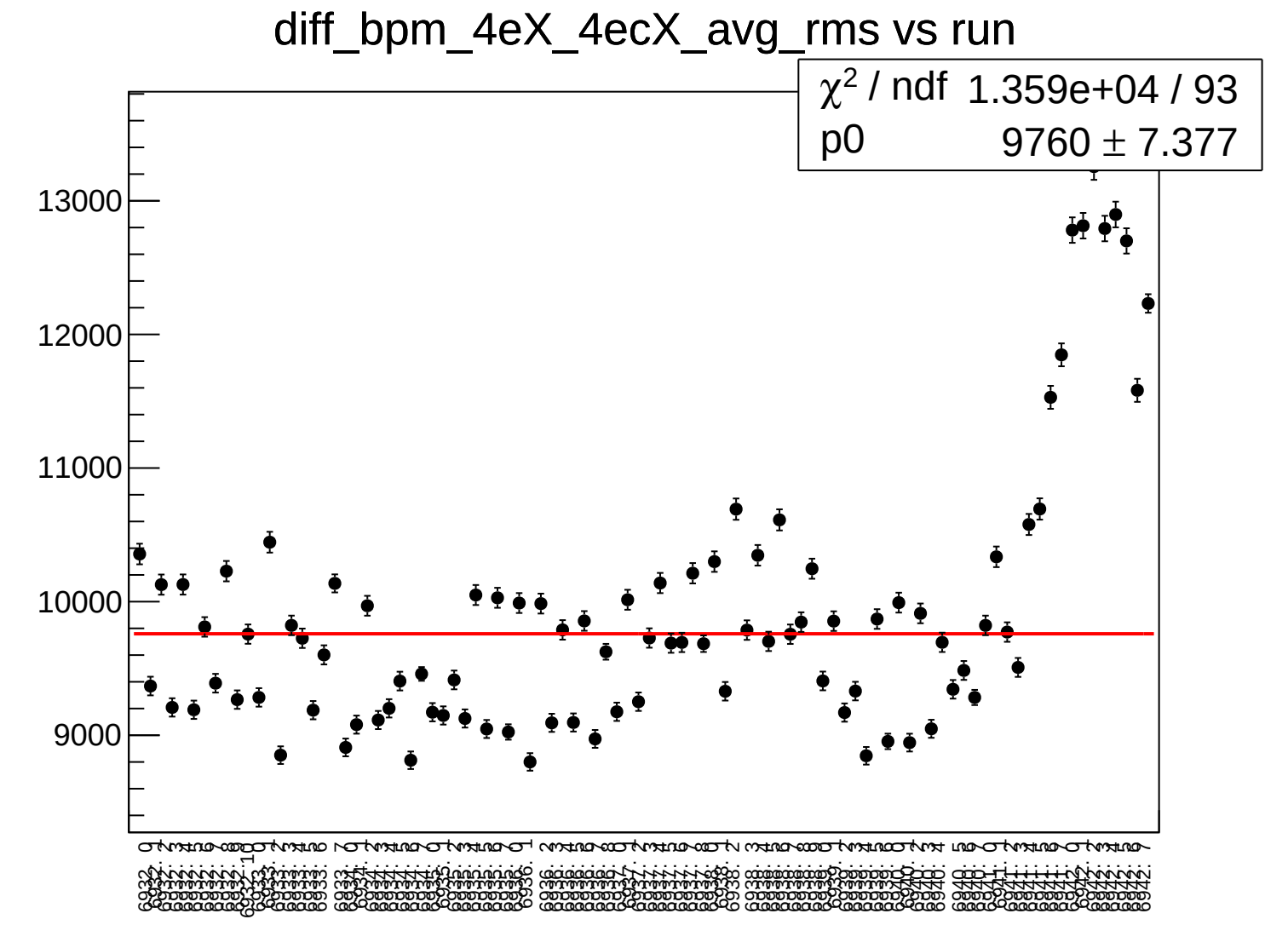

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.374e+04 / 93
p0 9939 ± 7.513
14000
13000
12000
11000
10000
9000

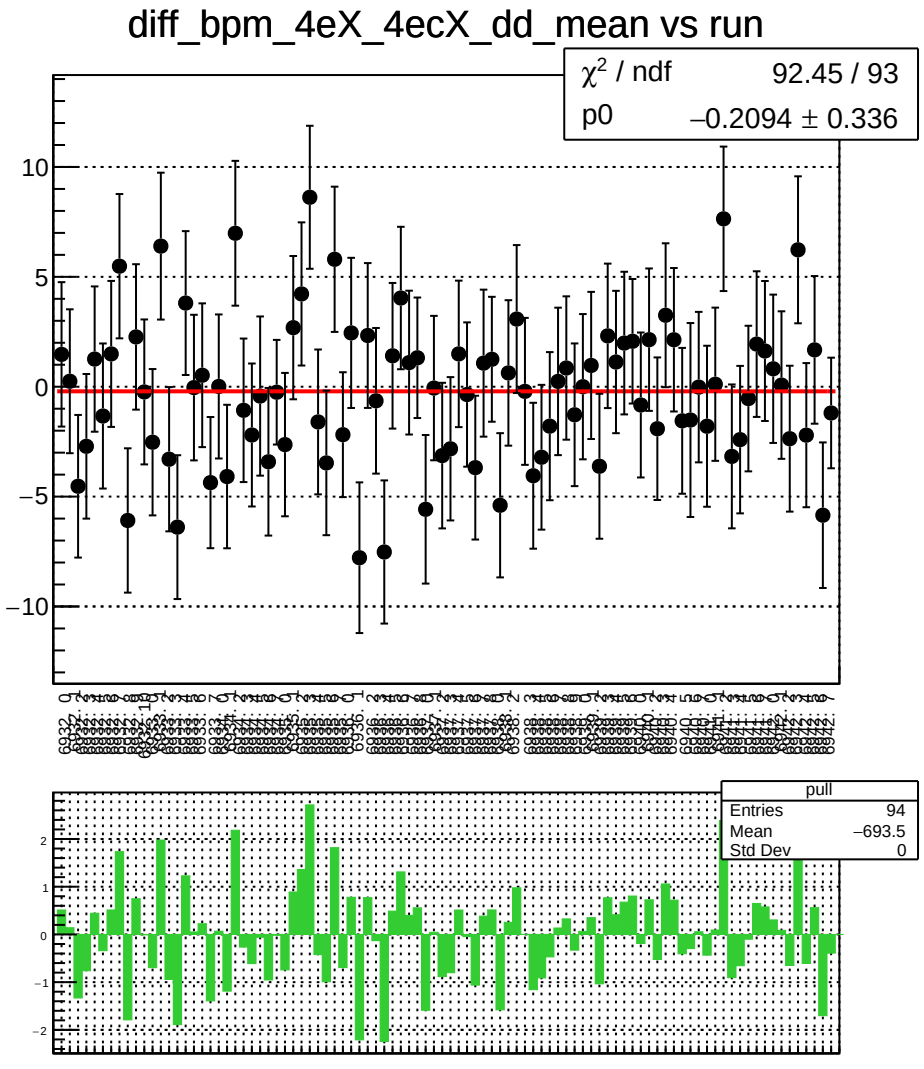

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 90.02 / 93
p0 −0.6186 ± 0.3917
pull
Entries 94
Mean 84.5
Std Dev 68.89

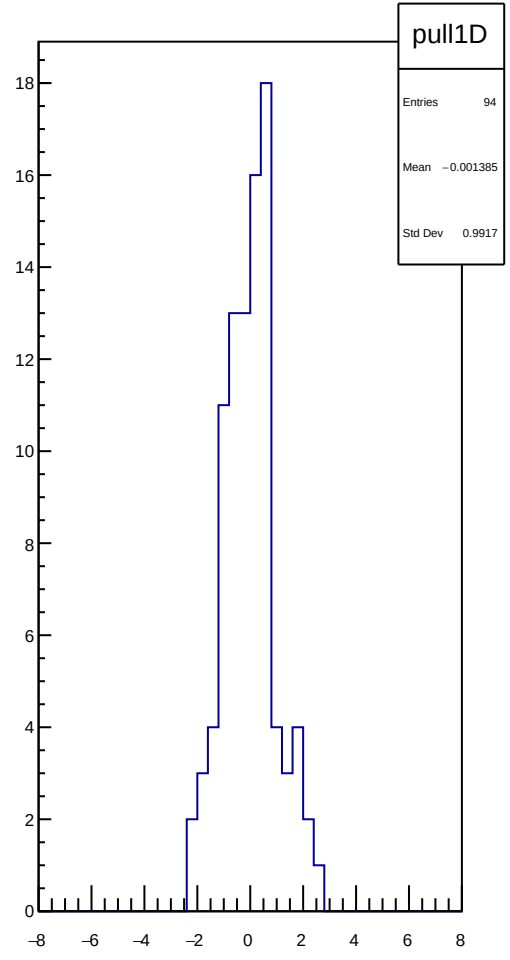

pull1D
Entries 94
Mean −0.009129
Std Dev 0.9786

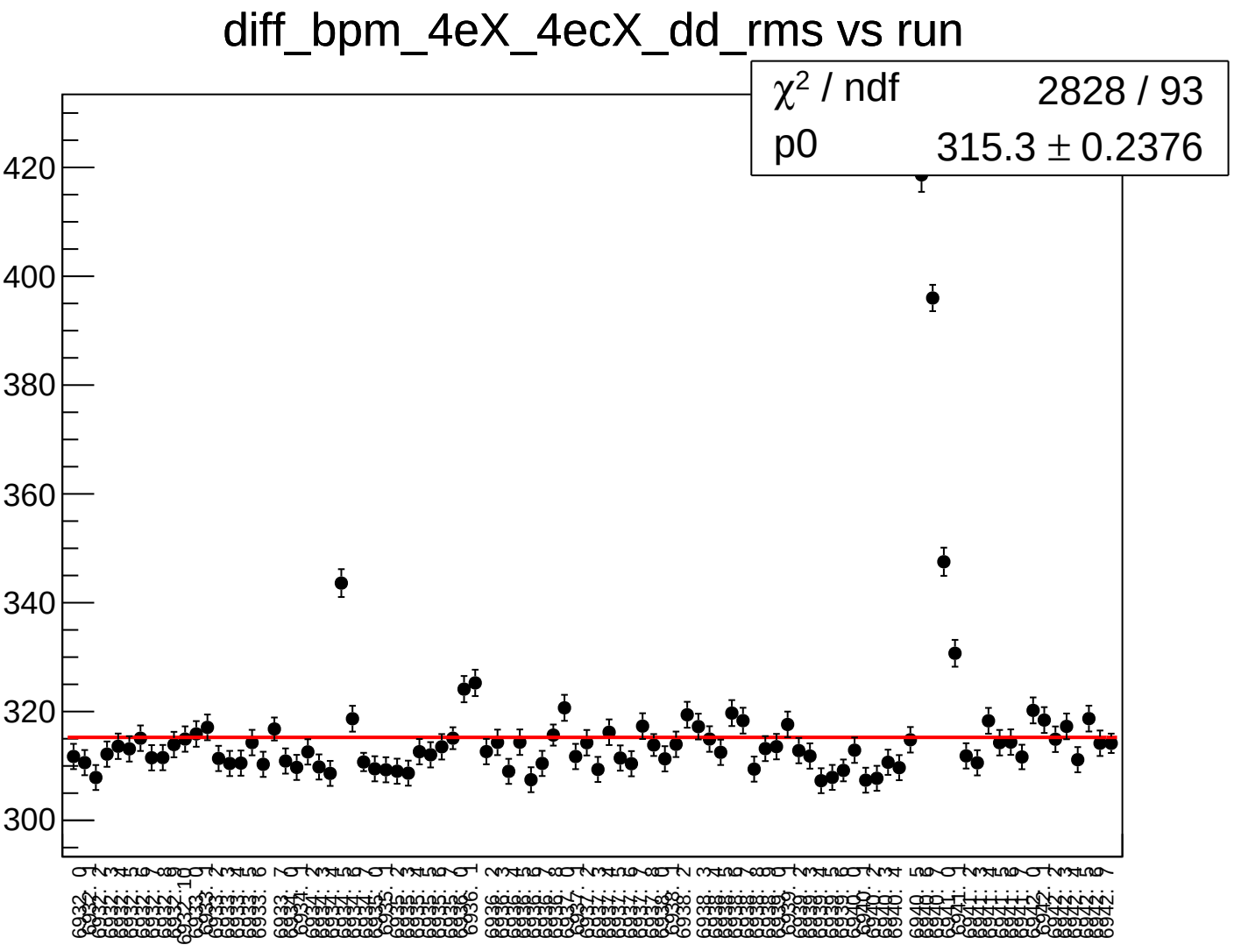

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1118 / 93
p0 367.7 ± 0.277
400
390
380
370
360
350

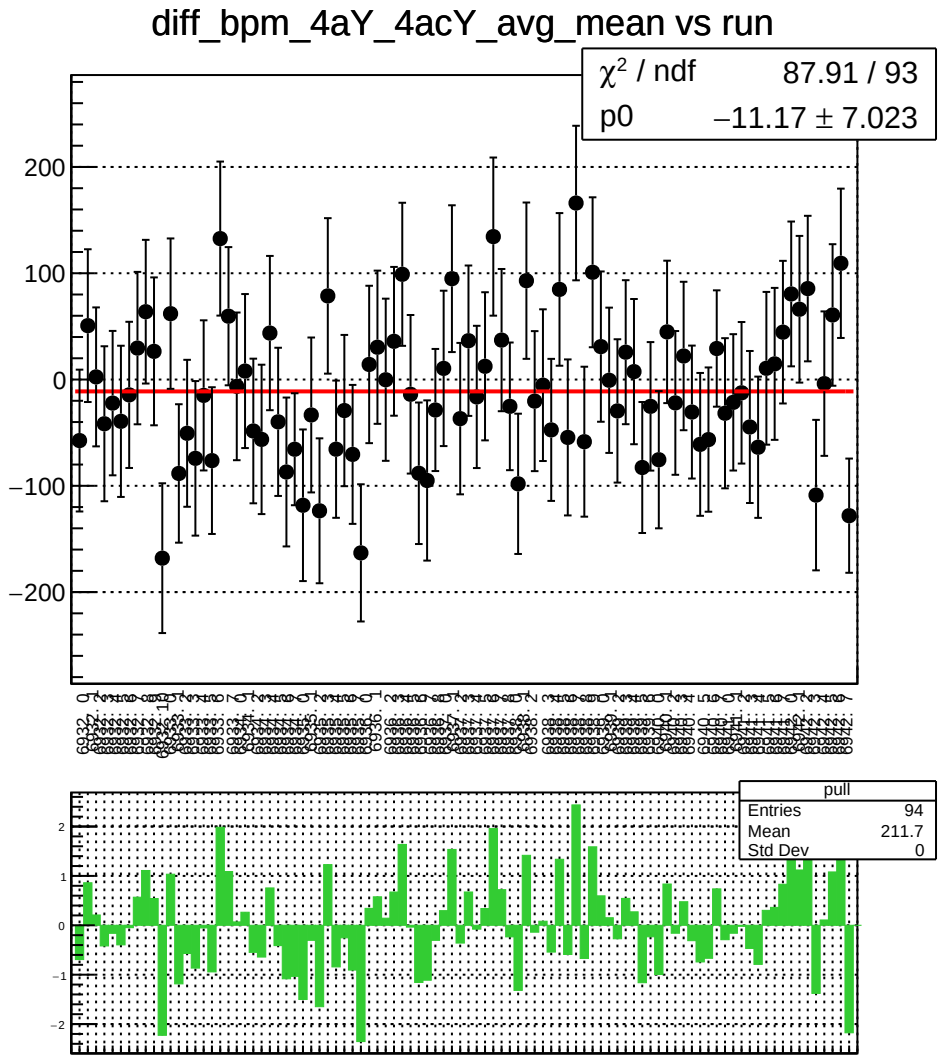

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 78.56 / 93
p0 −1.411 ± 10.43
pull
Entries 94
Mean 849.4
Std Dev 0
pull1D
Entries 94
Mean −0.00135
Std Dev 0.9142

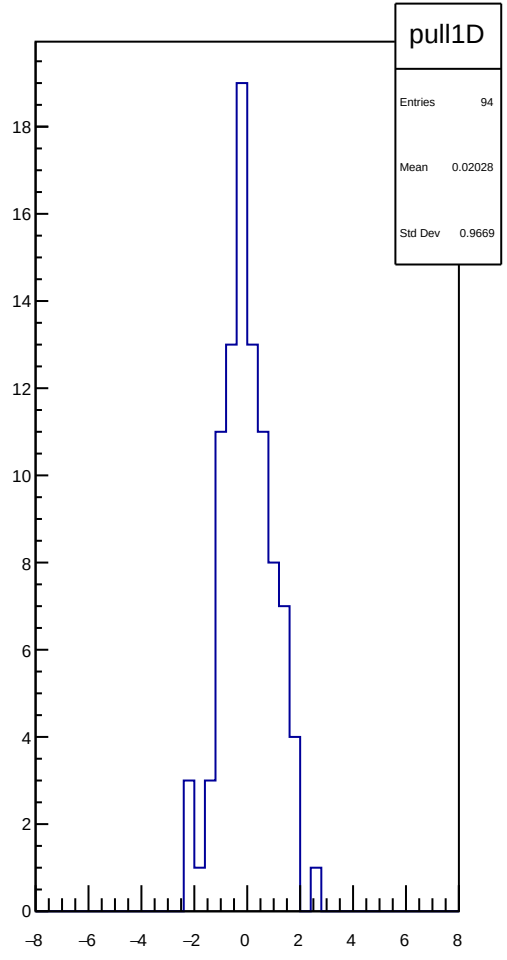

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.359e+04 / 93
p0 9760 ± 7.377
13000
12000
11000
10000
9000

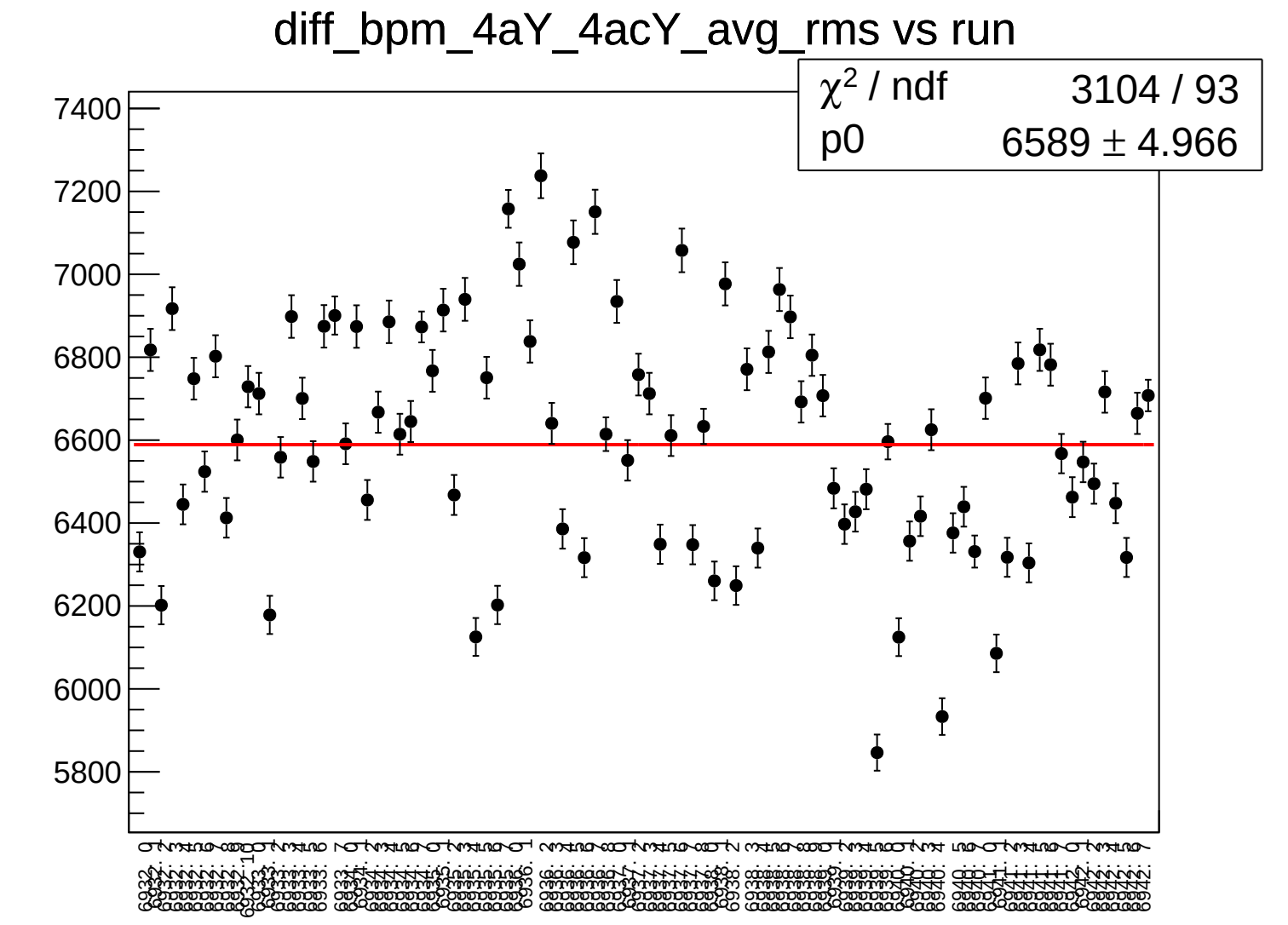

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 92.45 / 93
p0 −0.2094 ± 0.336
pull
Entries 94
Mean −693.5
Std Dev 0

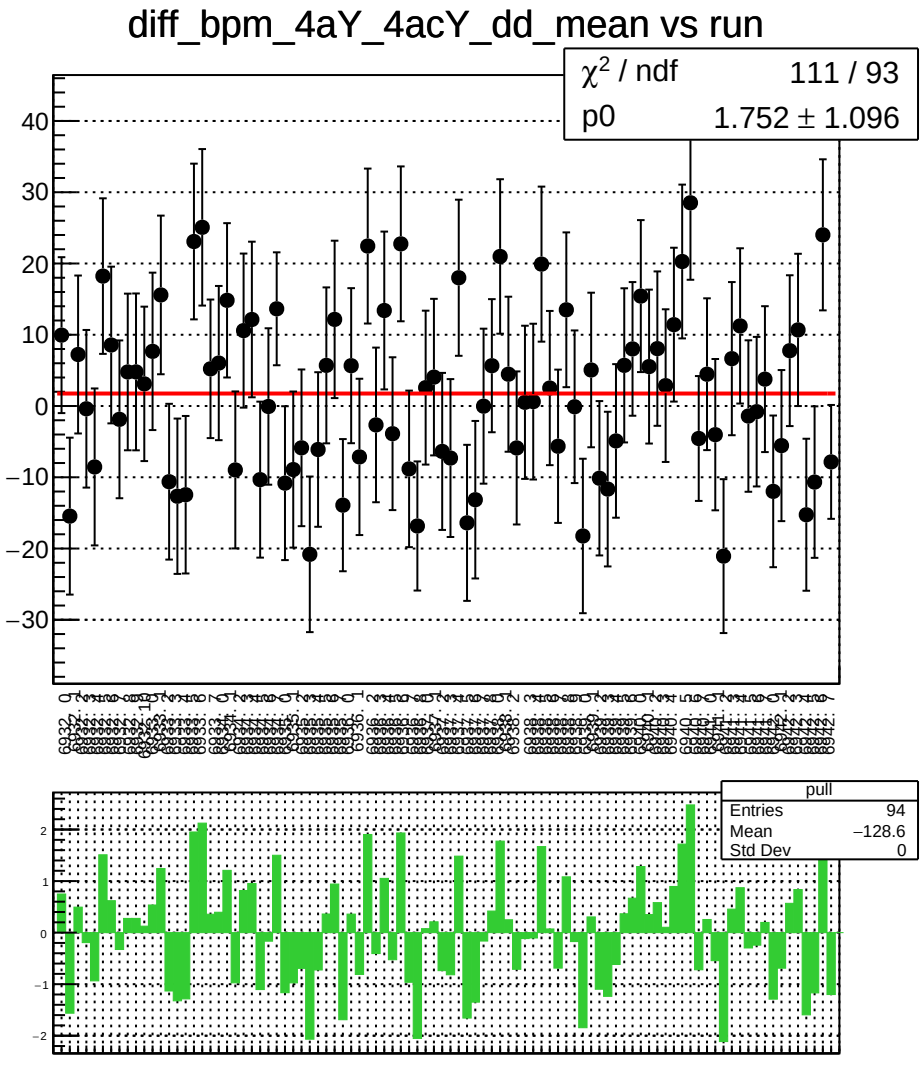

pull1D
Entries 94
Mean −0.001385
Std Dev 0.9917

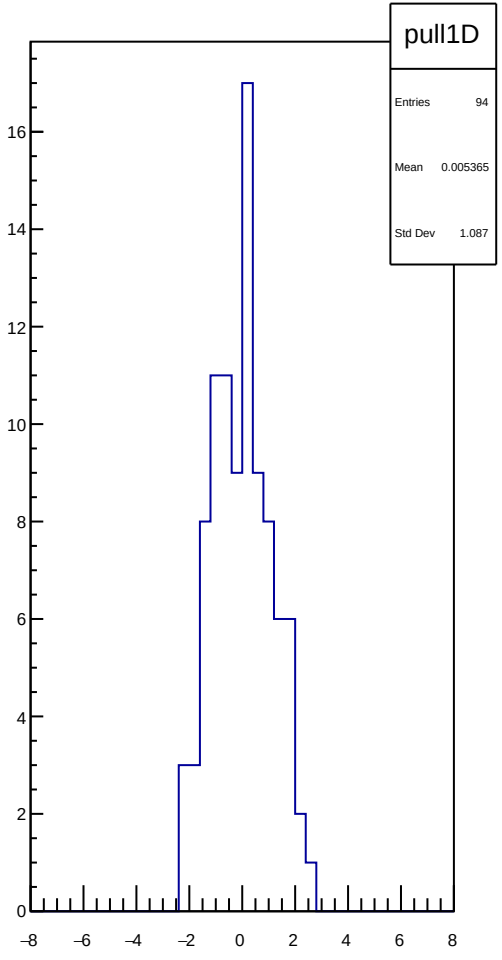

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 2828 / 93
p0 315.3 ± 0.2376
420
400
380
360
340
320
300

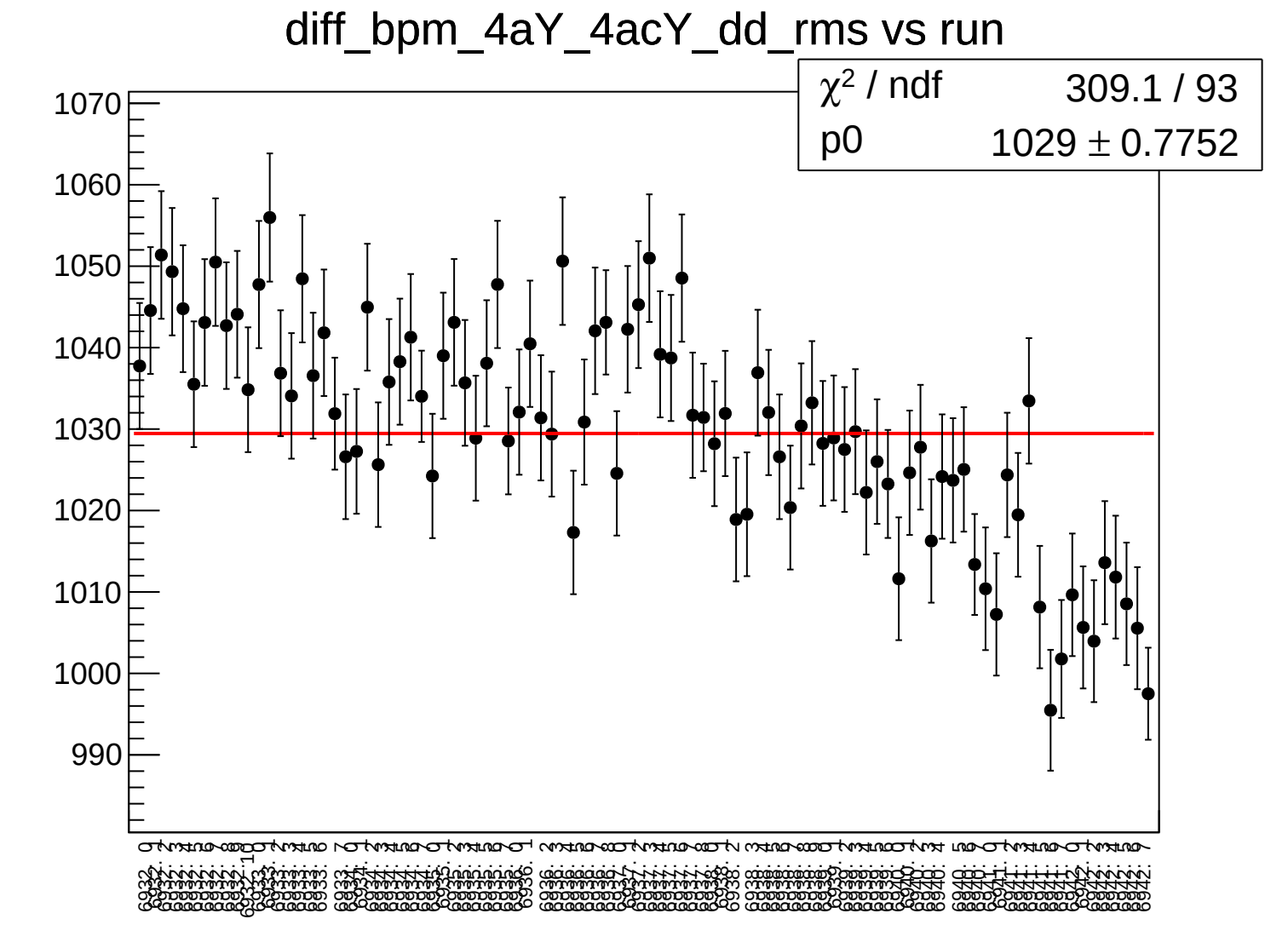

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 87.91 / 93
p0 −11.17 ± 7.023
200
100
0
−100
−200
pull
Entries 94
Mean 211.7
Std Dev 0
2
1
0
−1
−2

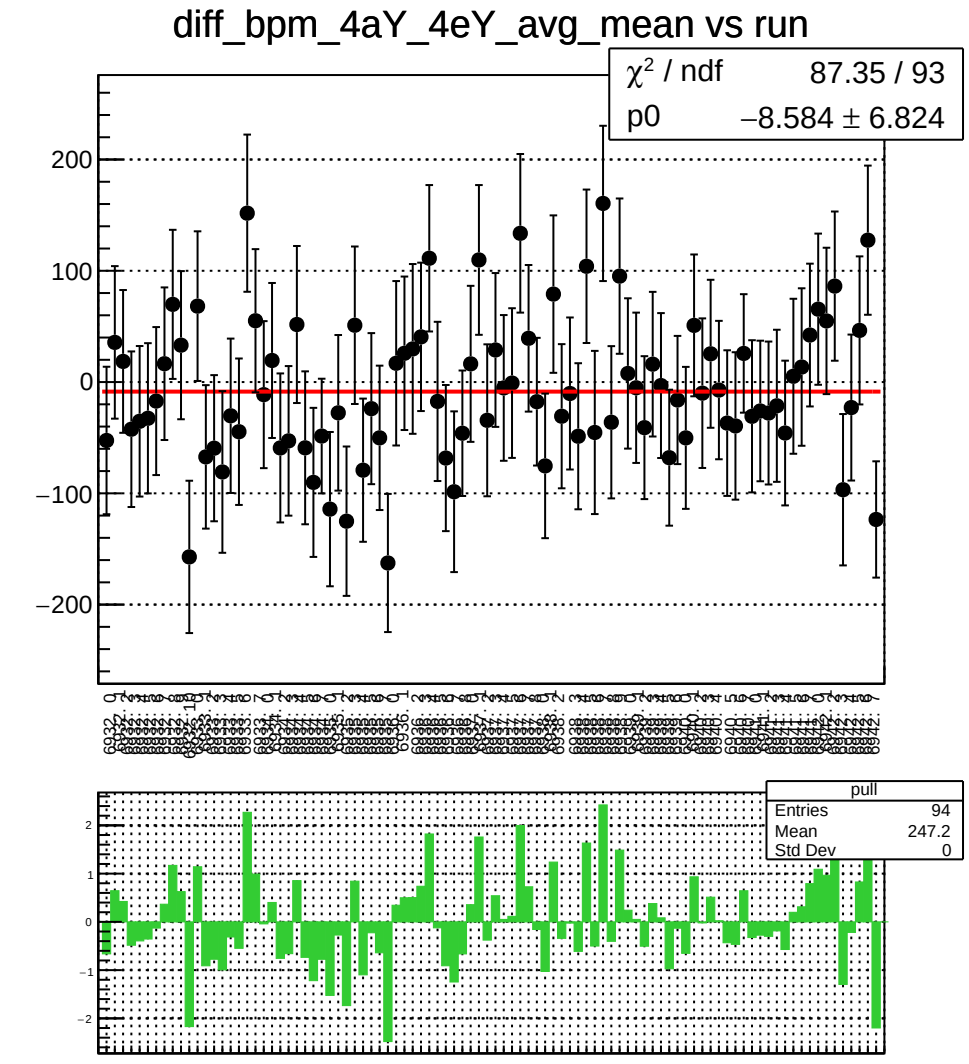

pull1D
Entries 94
Mean 0.02028
Std Dev 0.9669
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

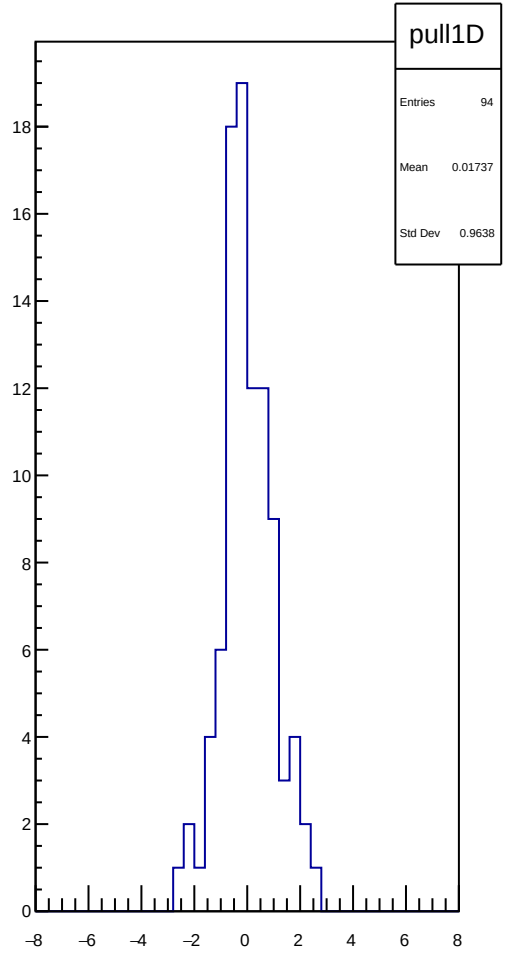

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 3104 / 93
p0 6589 ± 4.966
7400
7200
7000
6800
6600
6400
6200
6000
5800

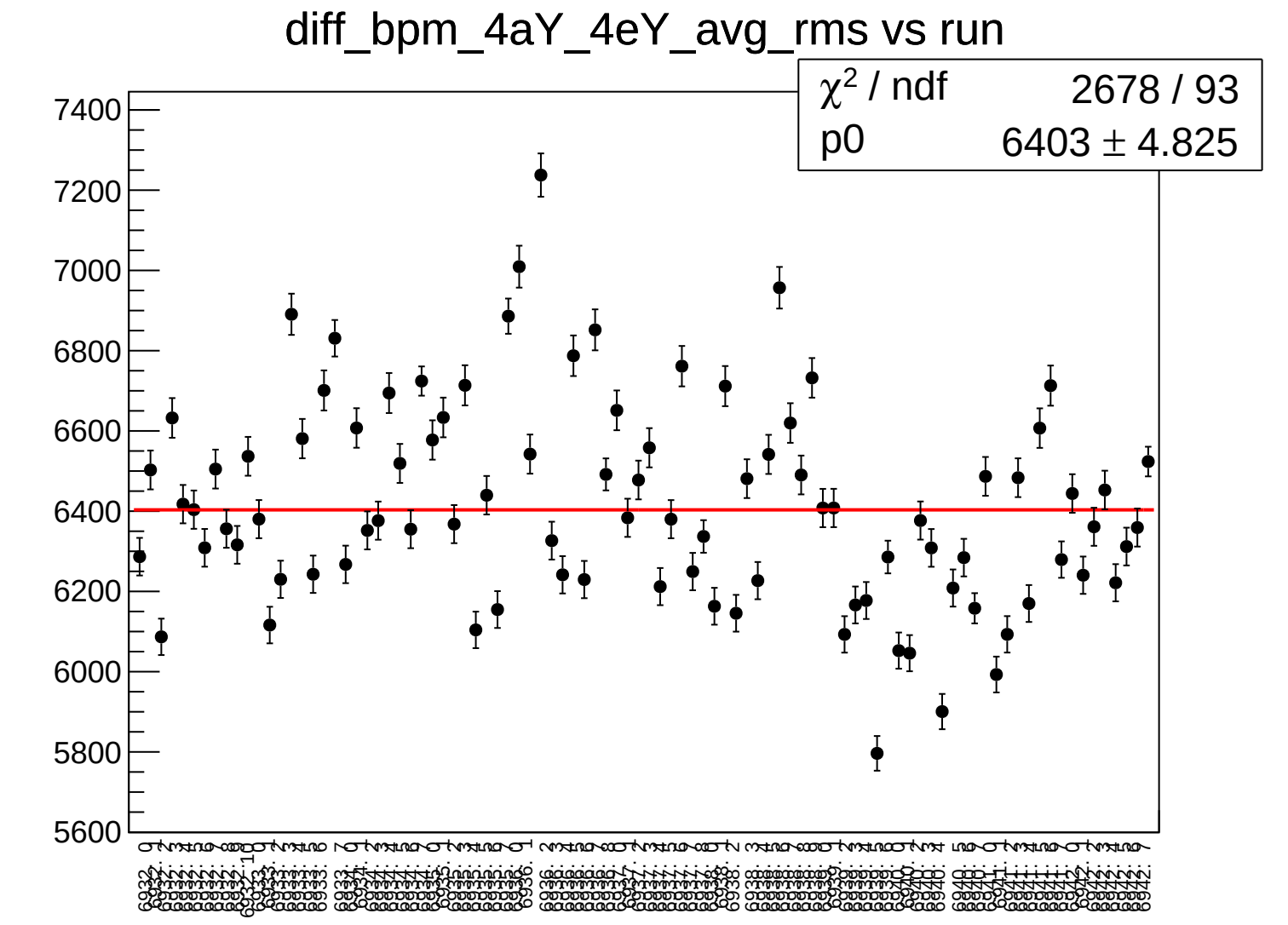

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 111 / 93
p0 1.752 ± 1.096
pull
Entries 94
Mean −128.6
Std Dev 0

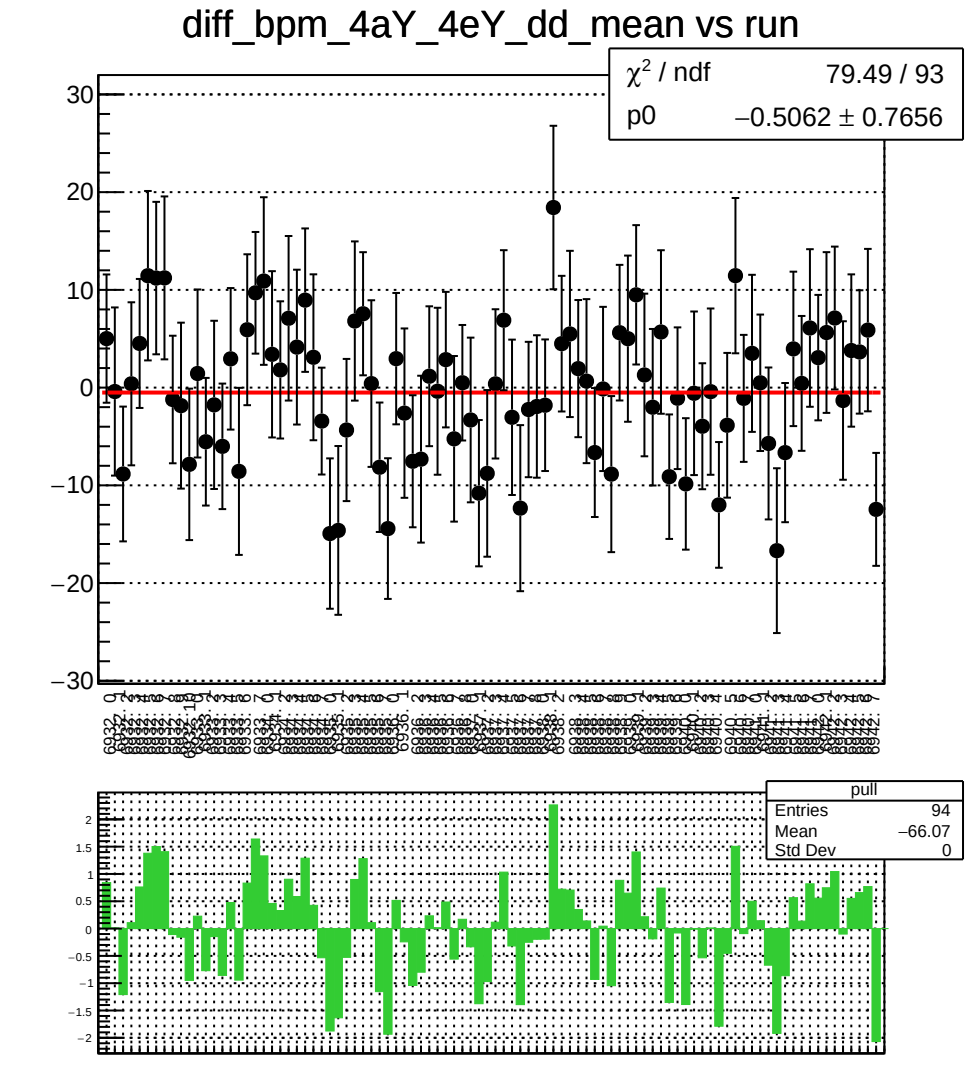

pull1D
Entries 94
Mean 0.005365
Std Dev 1.087

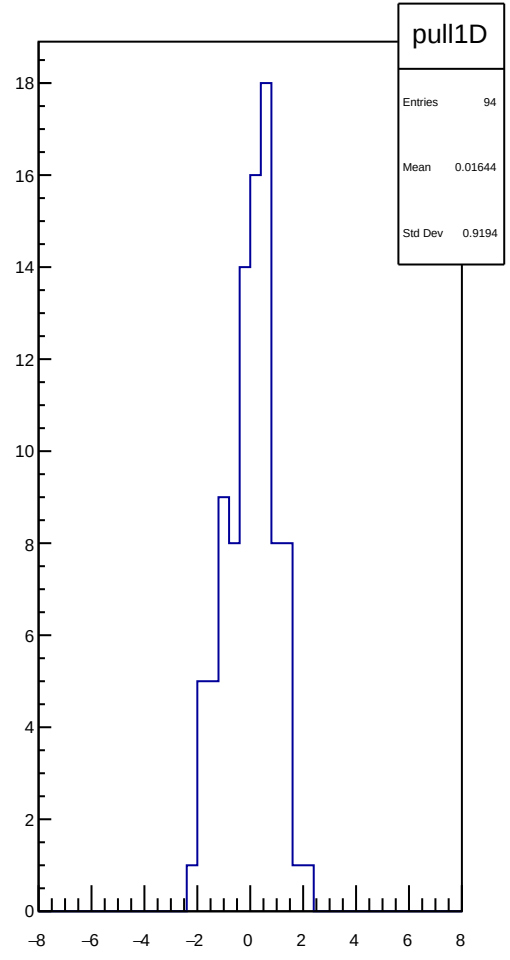

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 309.1 / 93
p0 1029 ± 0.7752
1070
1060
1050
1040
1030
1020
1010
1000
990

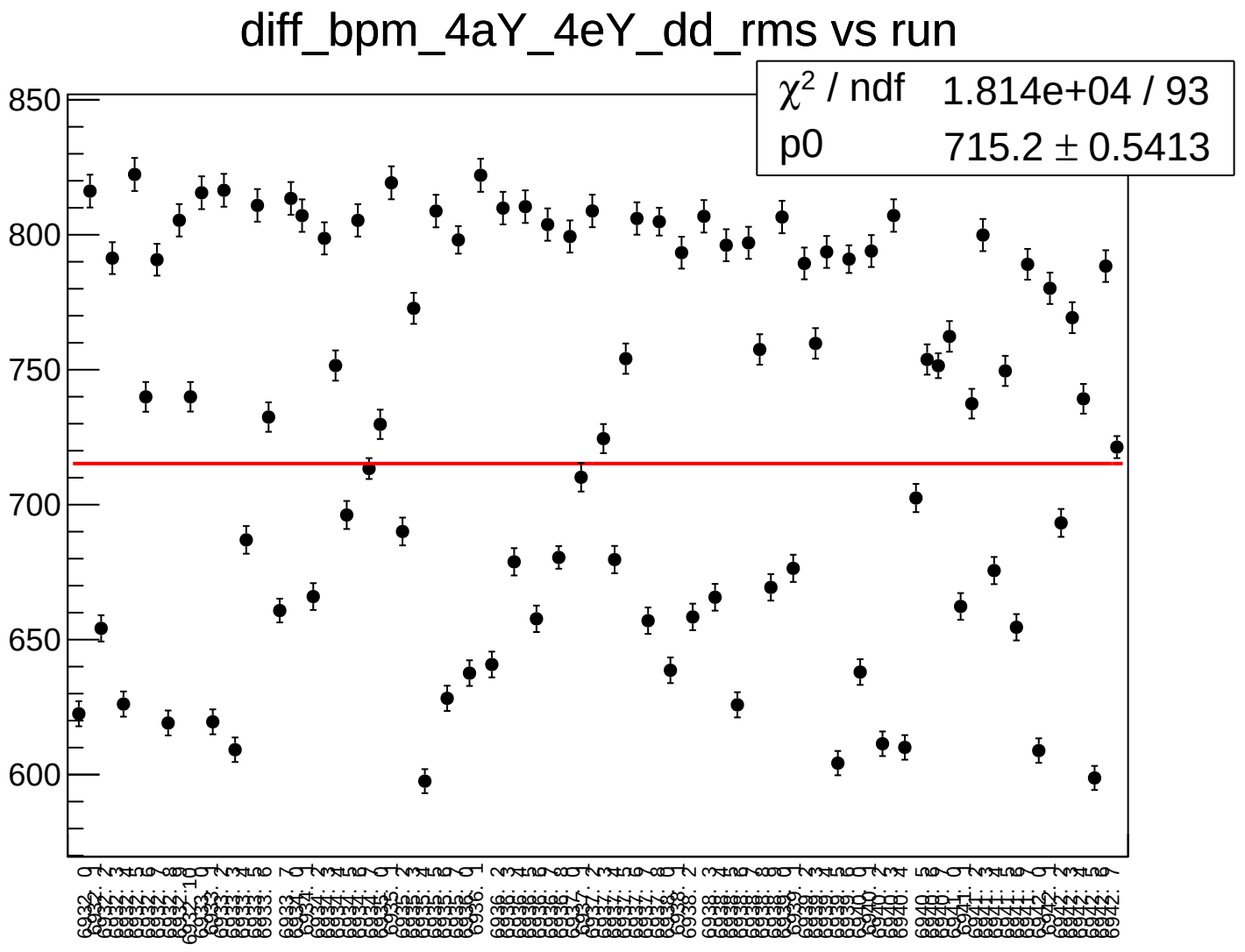

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 87.35 / 93
p0 −8.584 ± 6.824
200
100
0
−100
−200
pull
Entries 94
Mean 247.2
Std Dev 0
2
1
0
−1
−2

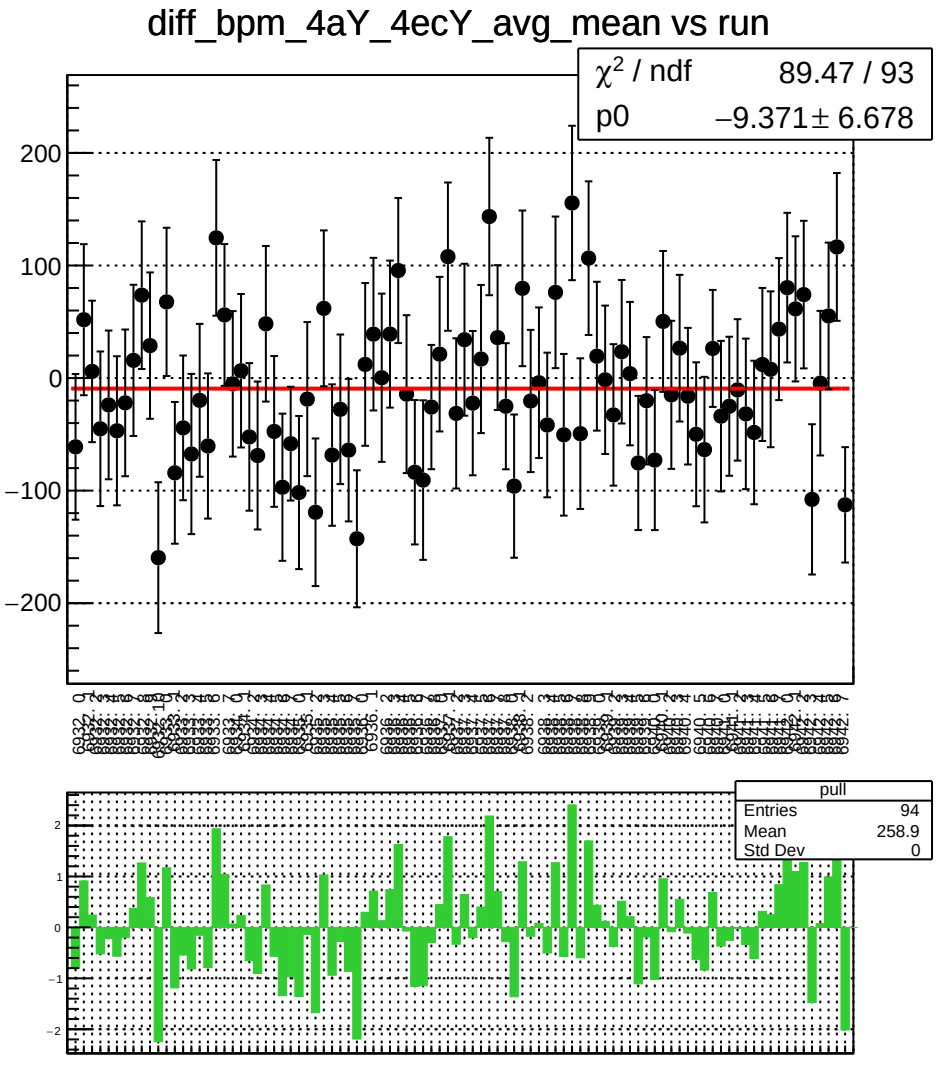

pull1D
Entries 94
Mean 0.01737
Std Dev 0.9638
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

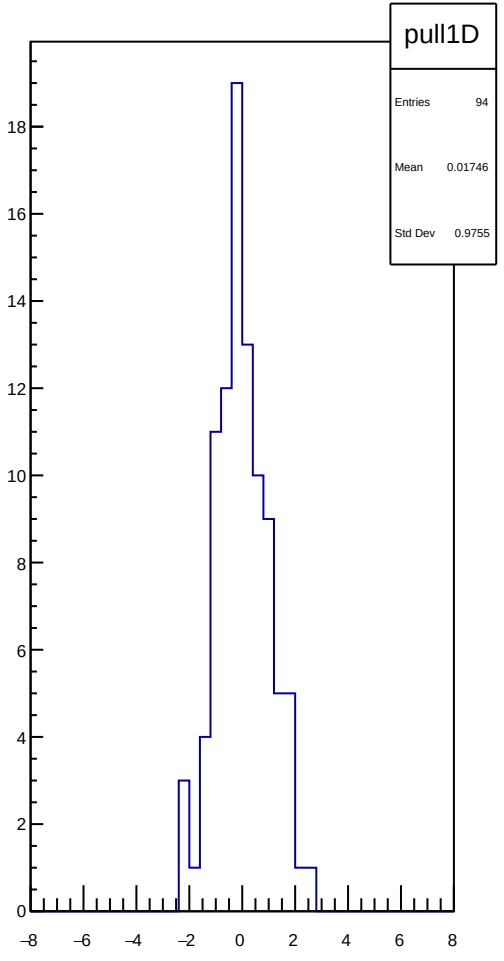

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 2678 / 93
p0 6403 ± 4.825
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

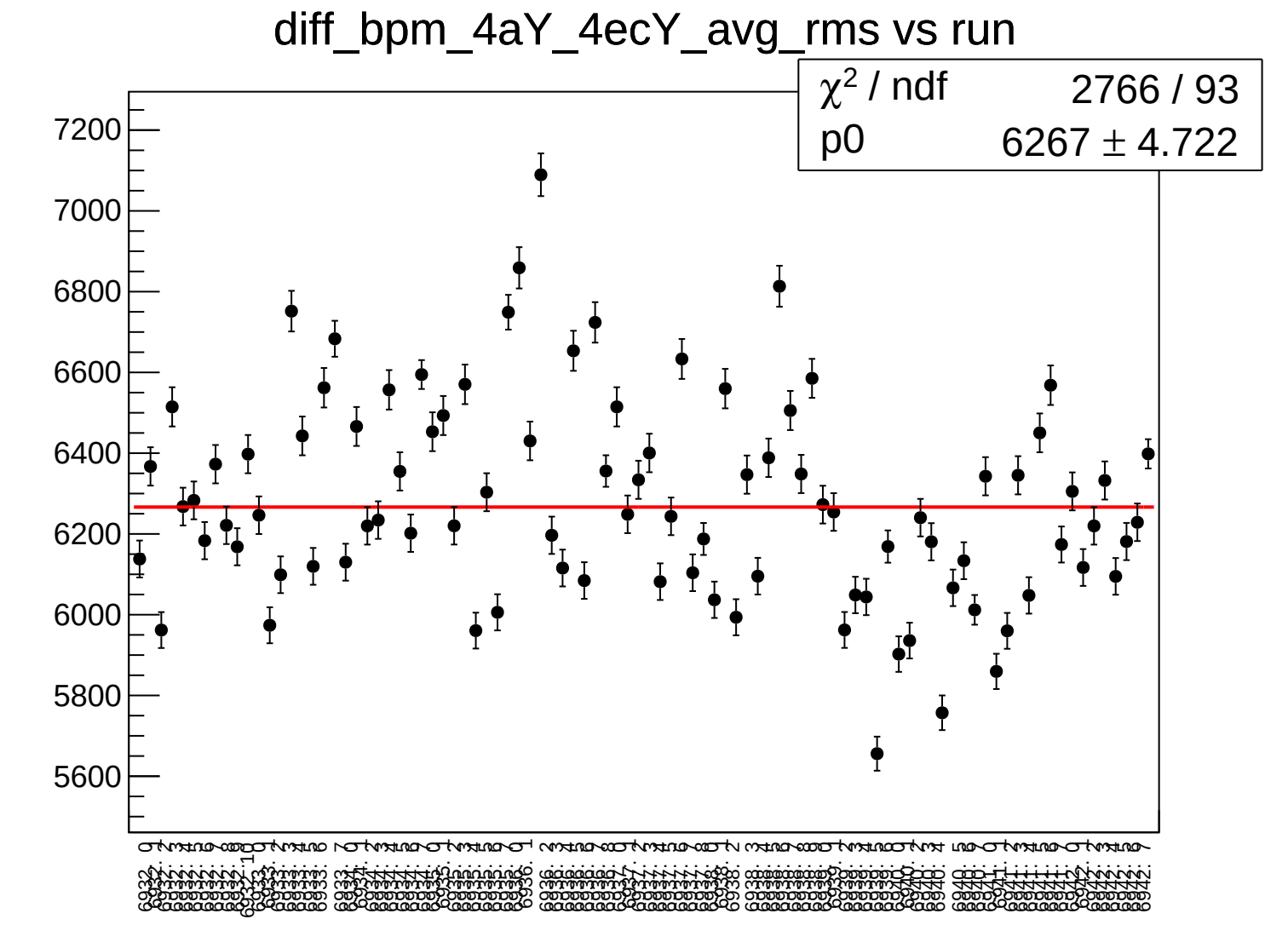

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 79.49 / 93
p0 −0.5062 ± 0.7656
pull
Entries 94
Mean −66.07
Std Dev 0

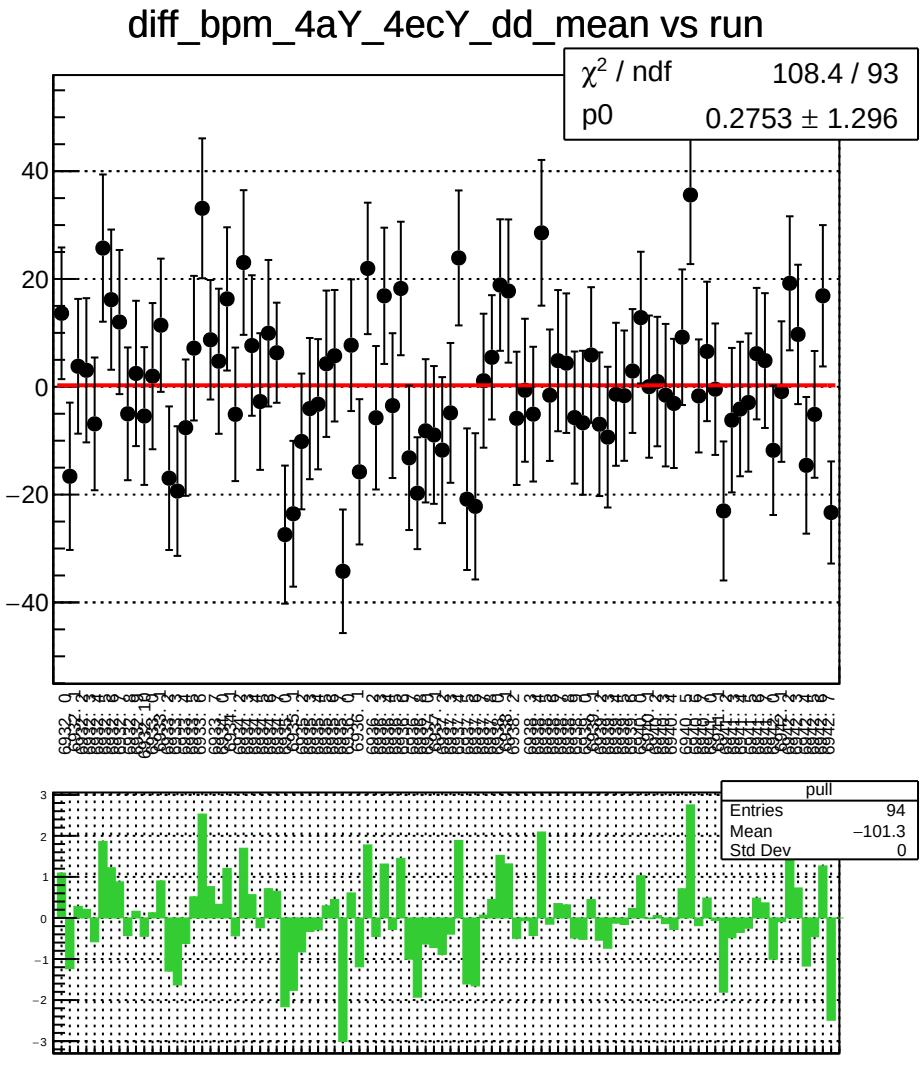

pull1D
Entries 94
Mean 0.01644
Std Dev 0.9194

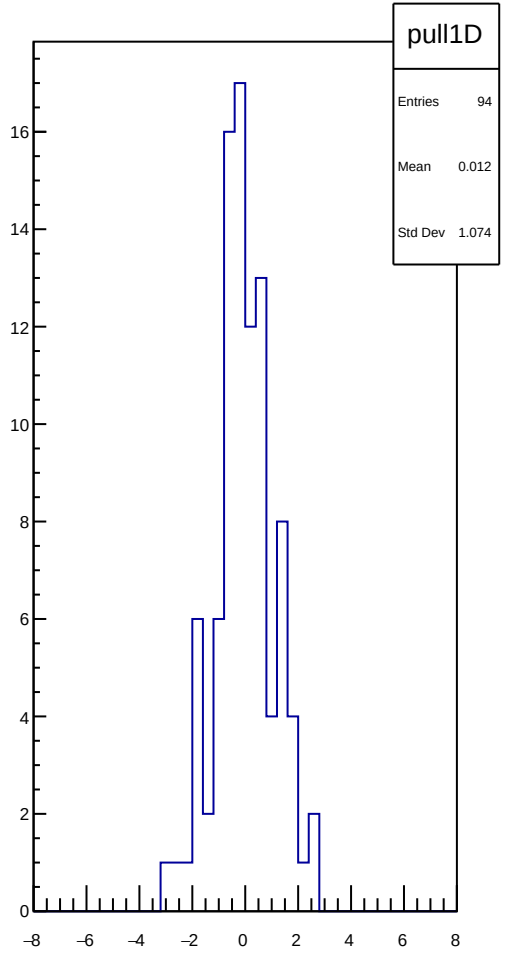

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.814e+04 / 93
p0 715.2 ± 0.5413
850
800
750
700
650
600

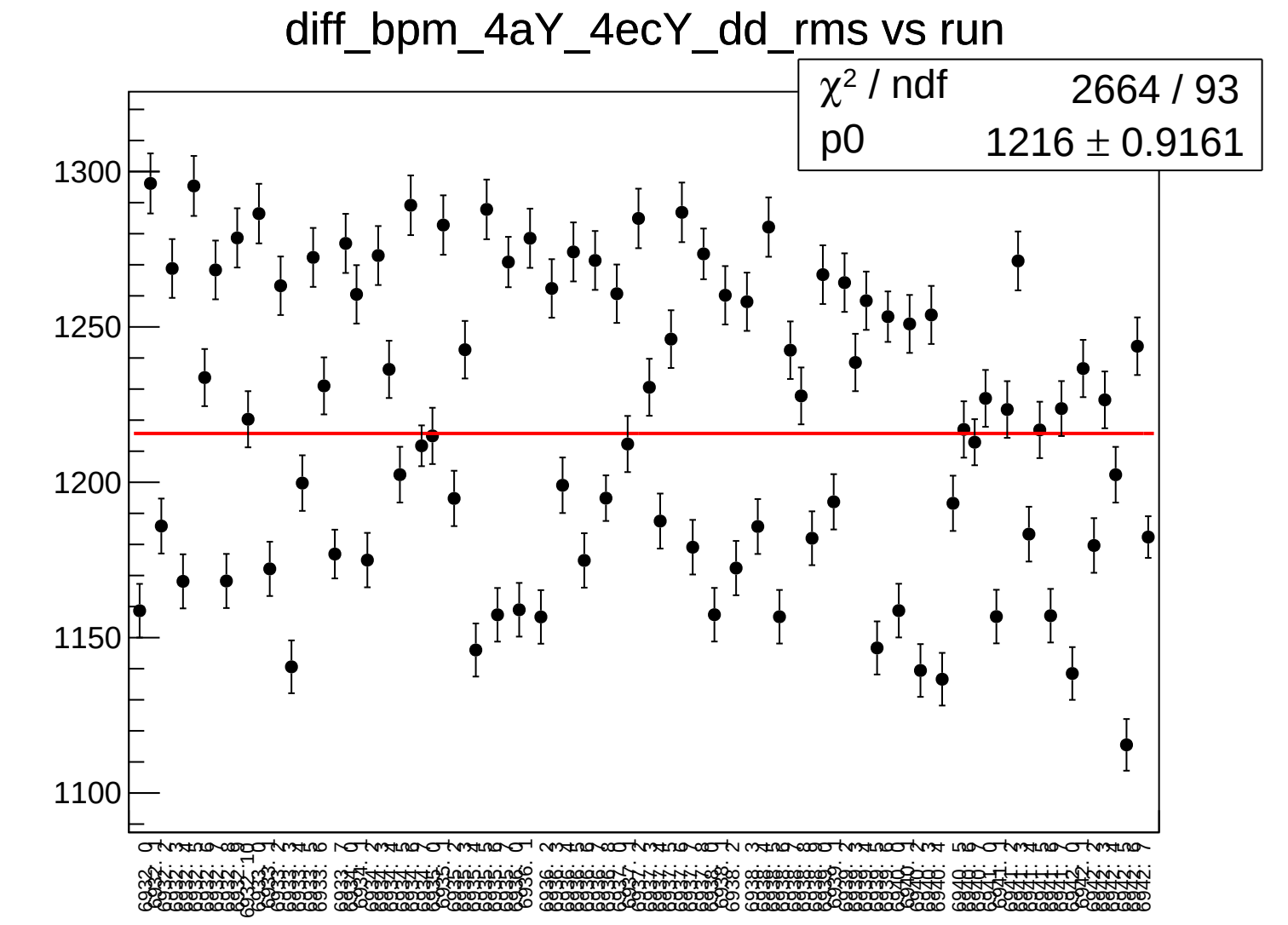

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 89.47 / 93
p0 −9.371 ± 6.678
200
100
0
−100
−200
pull
Entries 94
Mean 258.9
Std Dev 0
2
1
0
−1
−2

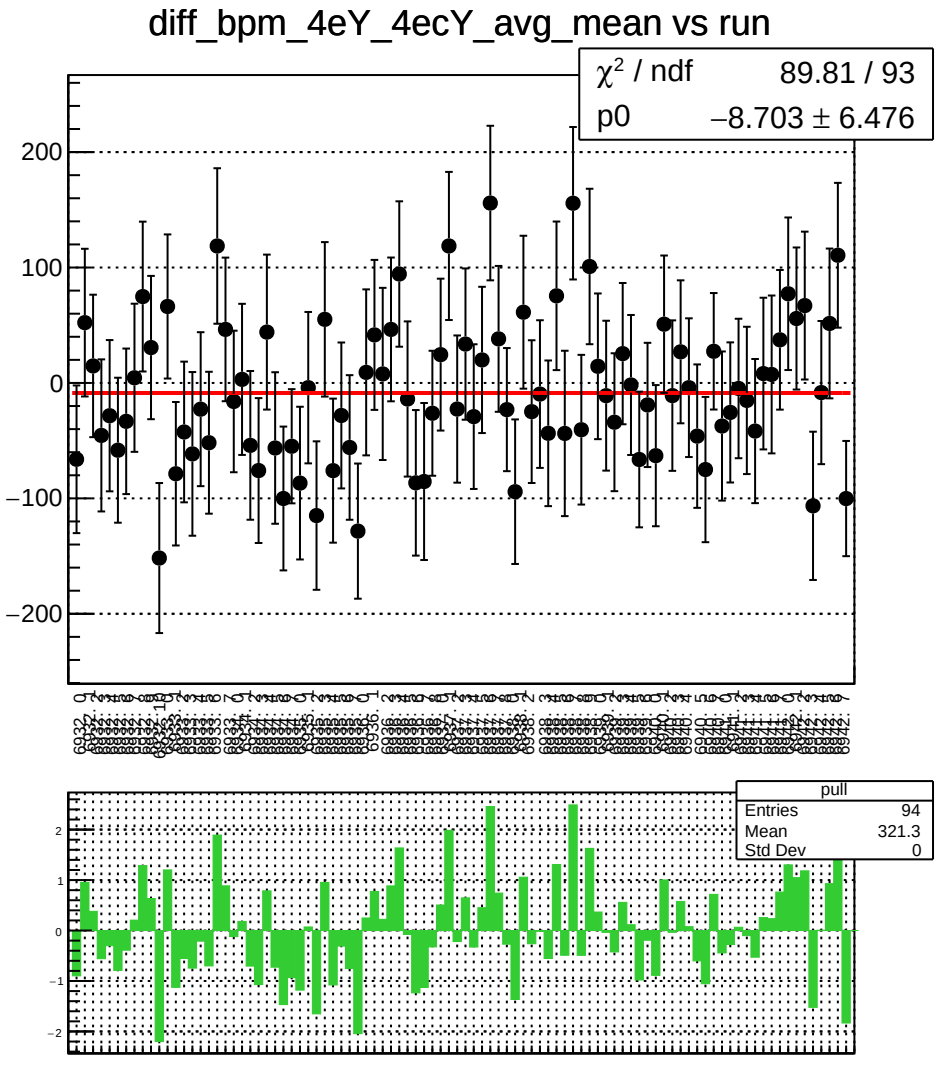

pull1D
Entries 94
Mean 0.01746
Std Dev 0.9755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

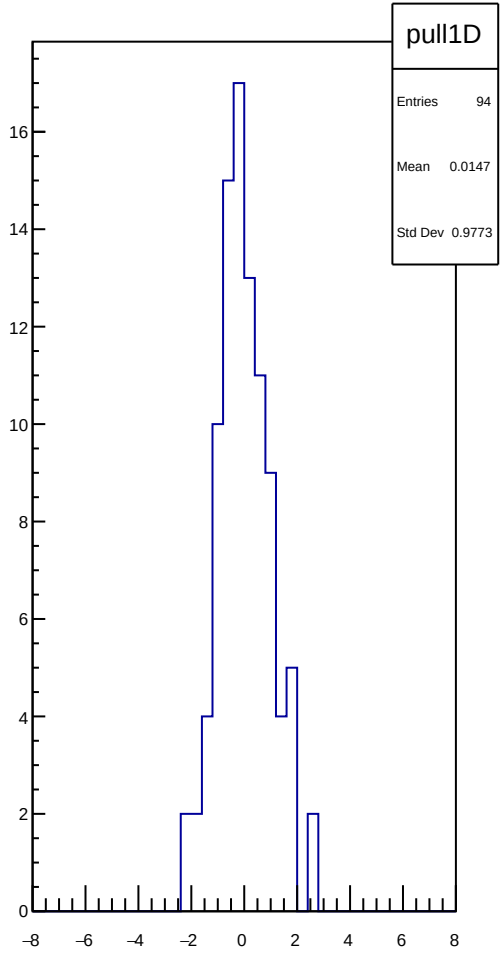

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 2766 / 93
p0 6267 ± 4.722
7200
7000
6800
6600
6400
6200
6000
5800
5600

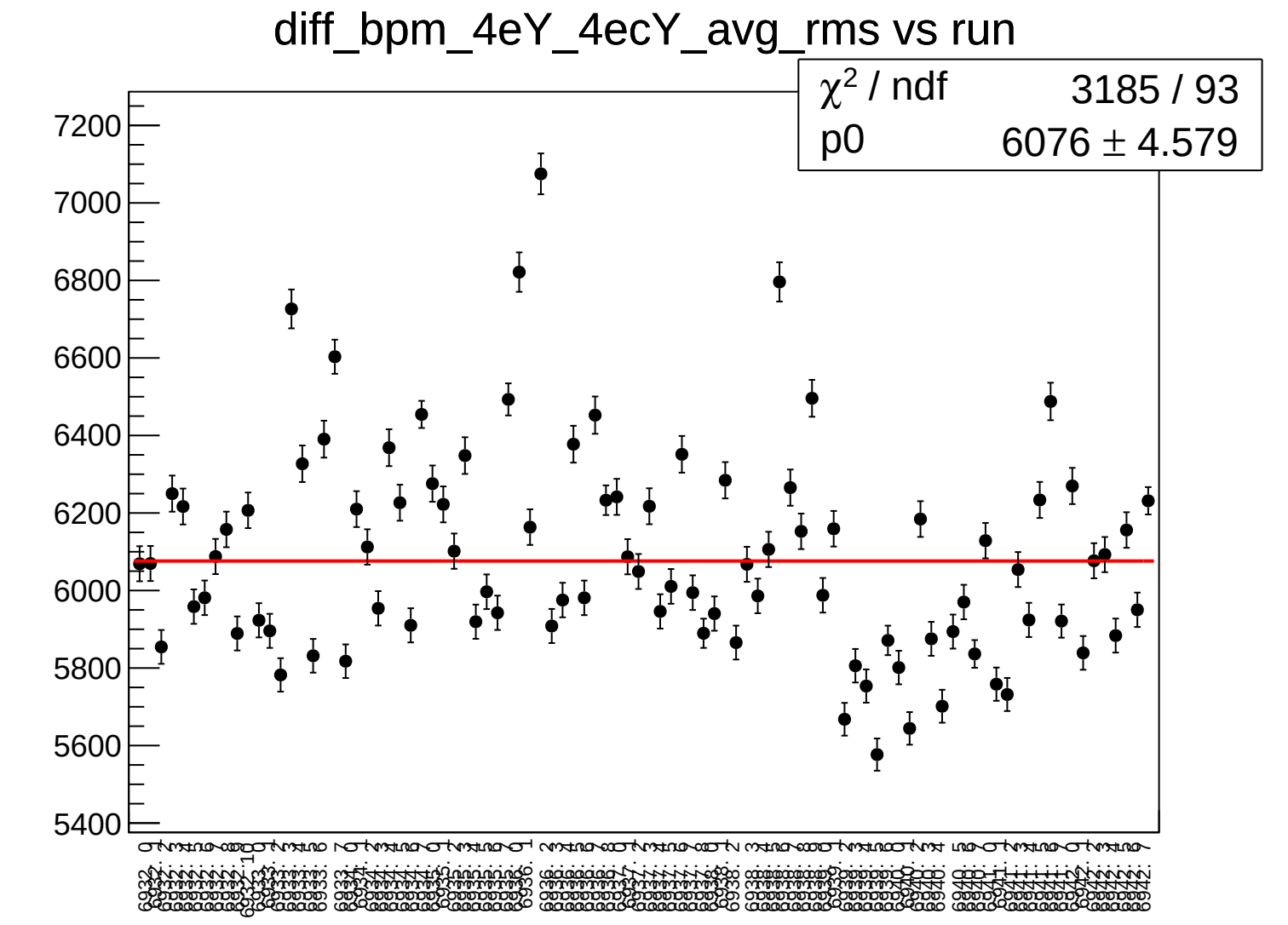

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 108.4 / 93
p0 0.2753 ± 1.296
40
20
0
−20
−40
pull
Entries 94
Mean −101.3
Std Dev 0
3
2
1
0
−1
−2
−3

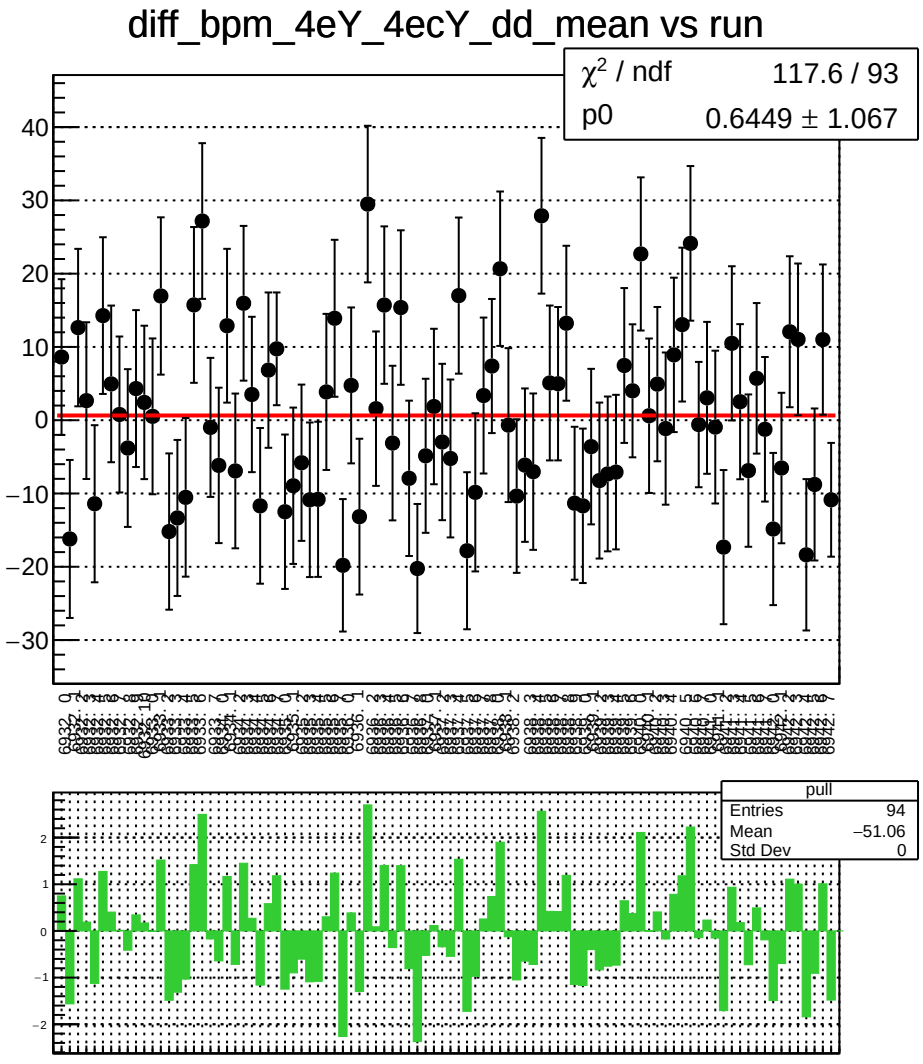

pull1D
Entries 94
Mean 0.012
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

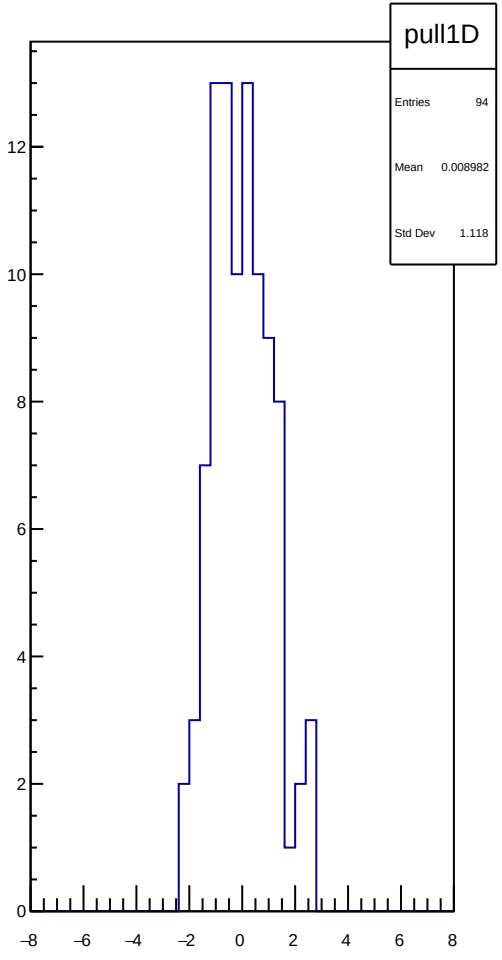

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2664 / 93
p0 1216 ± 0.9161
1300
1250
1200
1150
1100

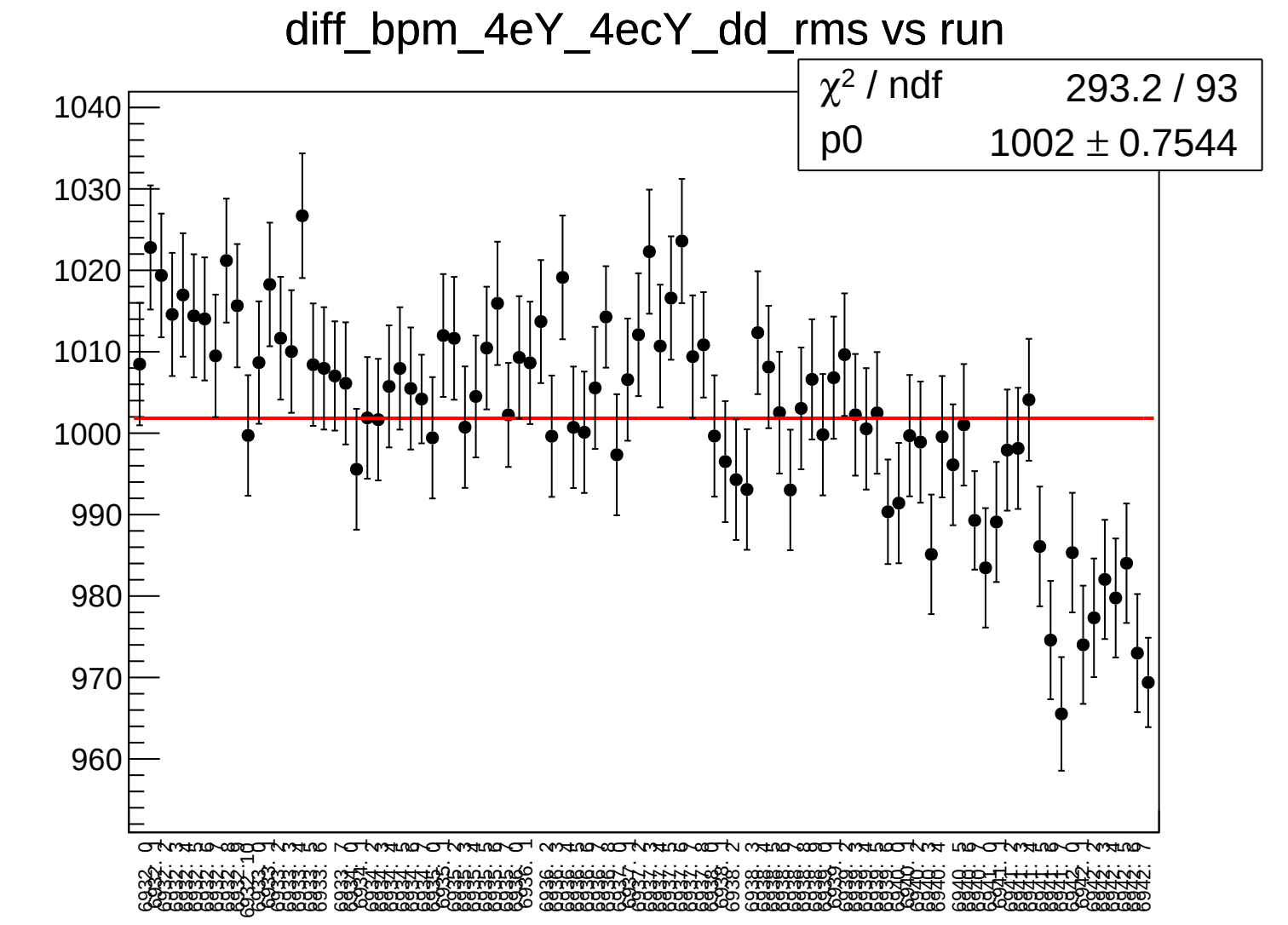

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 89.81 / 93
p0 −8.703 ± 6.476
200
100
0
−100
−200
pull
Entries 94
Mean 321.3
Std Dev 0
2
1
0
−1
−2

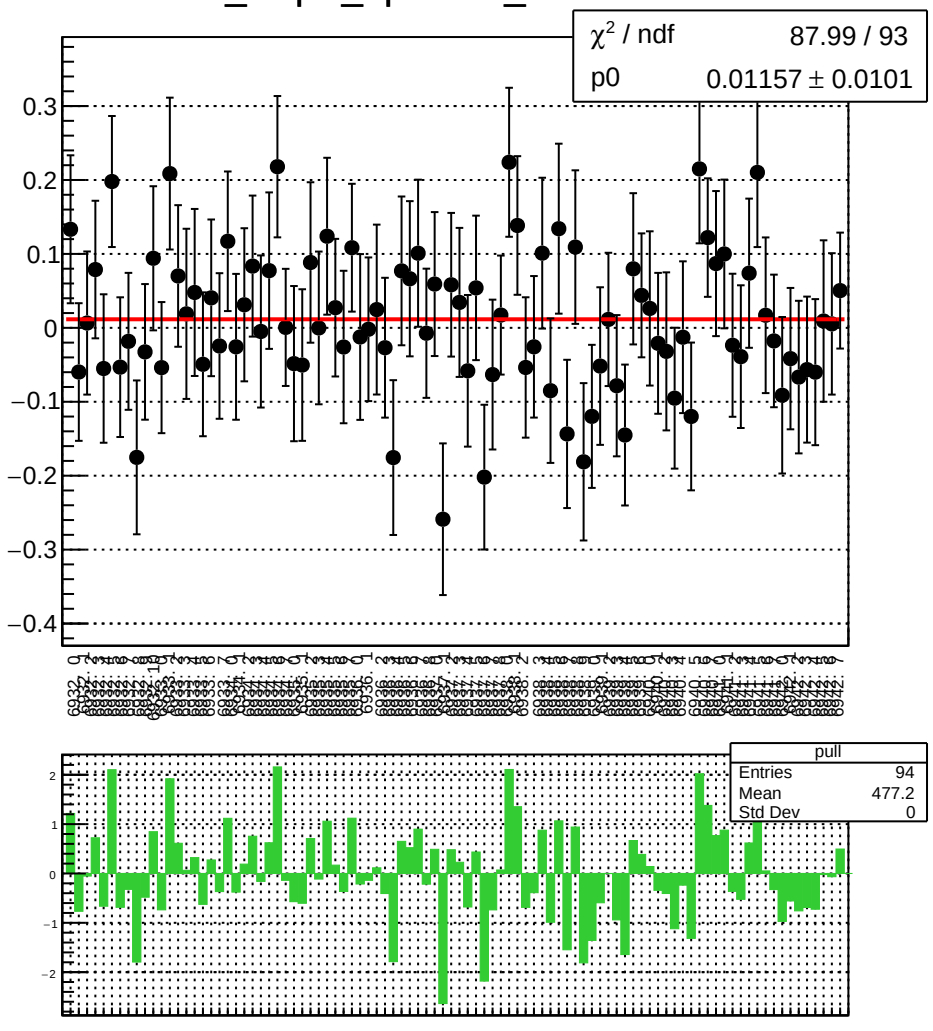

pull1D
Entries 94
Mean 0.0147
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

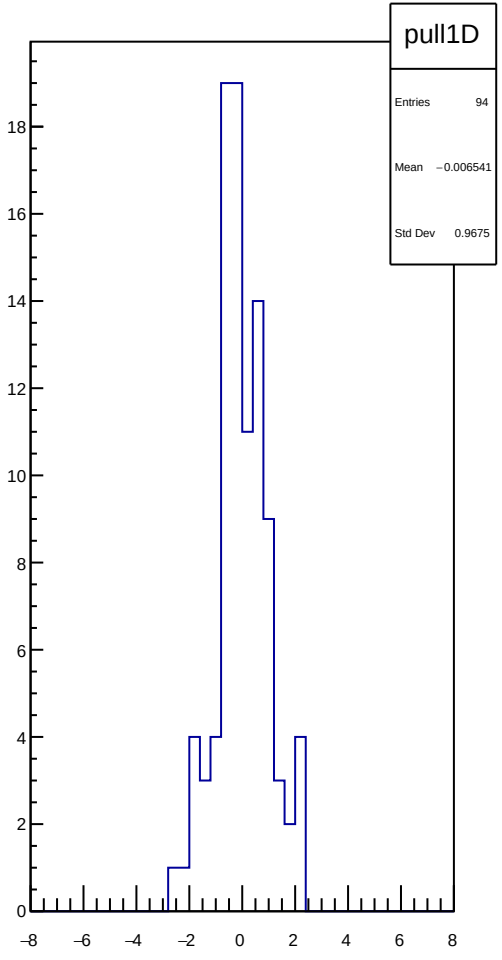

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 3185 / 93
p0 6076 ± 4.579
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

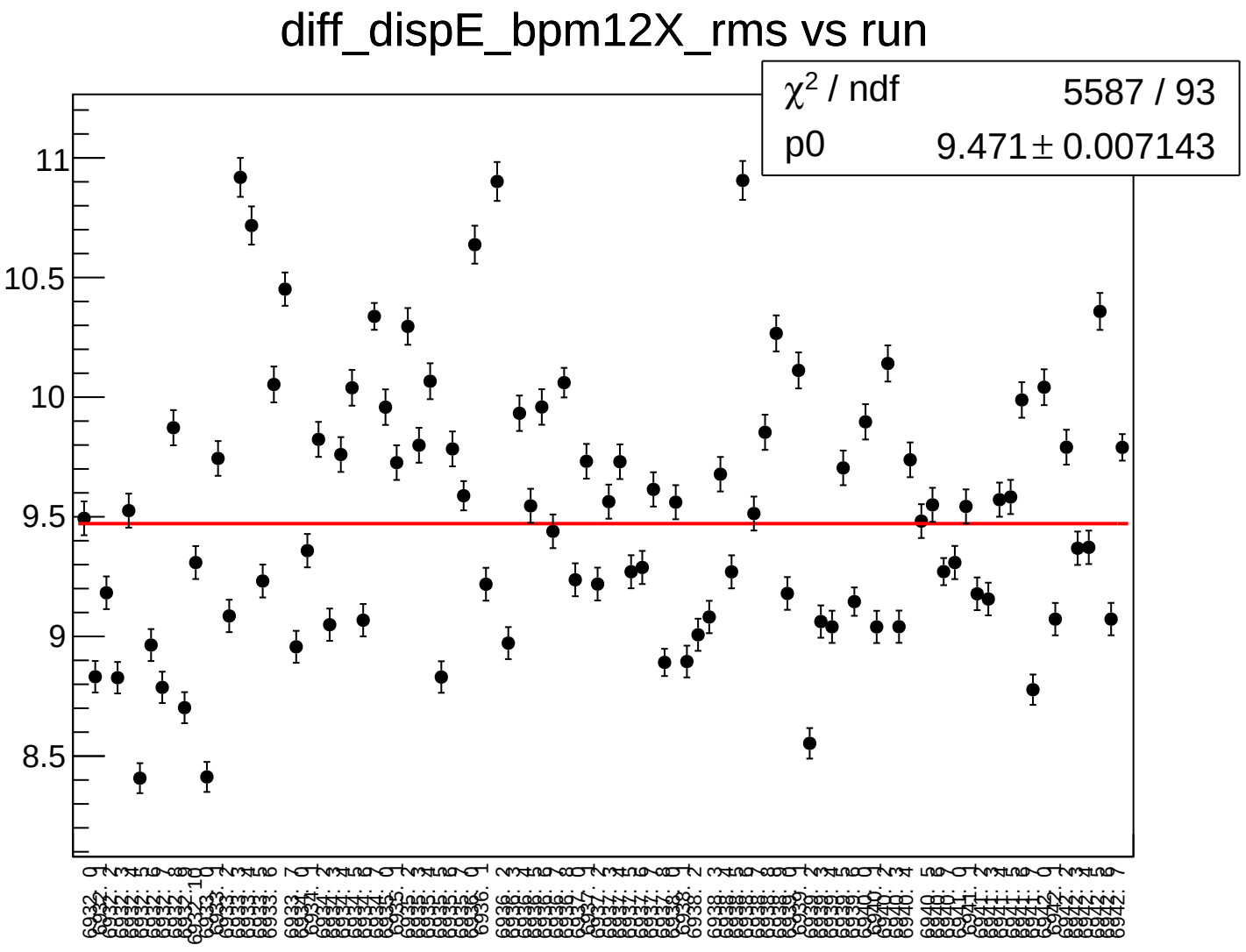

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 117.6 / 93
p0 0.6449 ± 1.067
pull
Entries 94
Mean −51.06
Std Dev 0

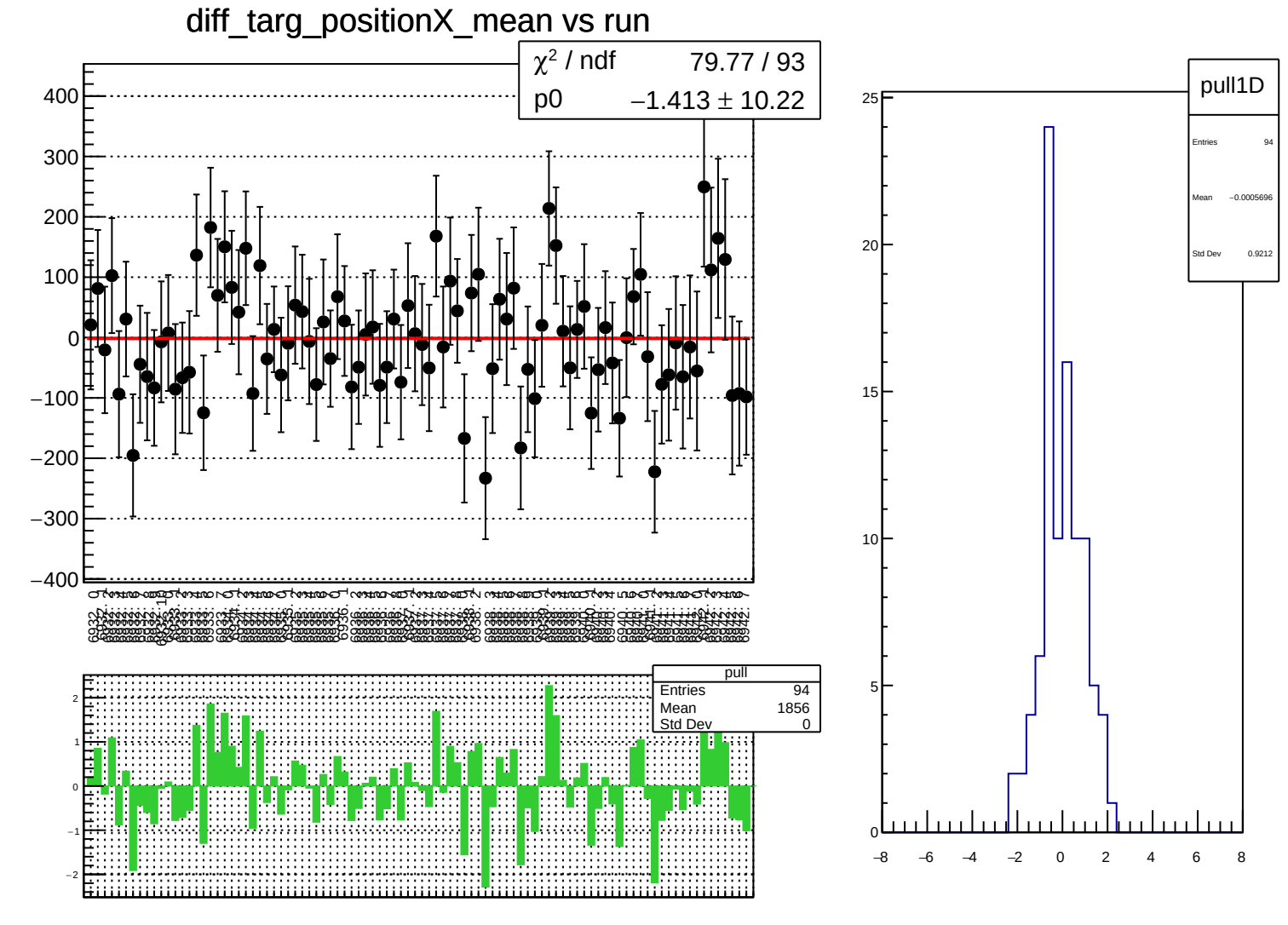

pull1D
Entries 94
Mean 0.008982
Std Dev 1.118

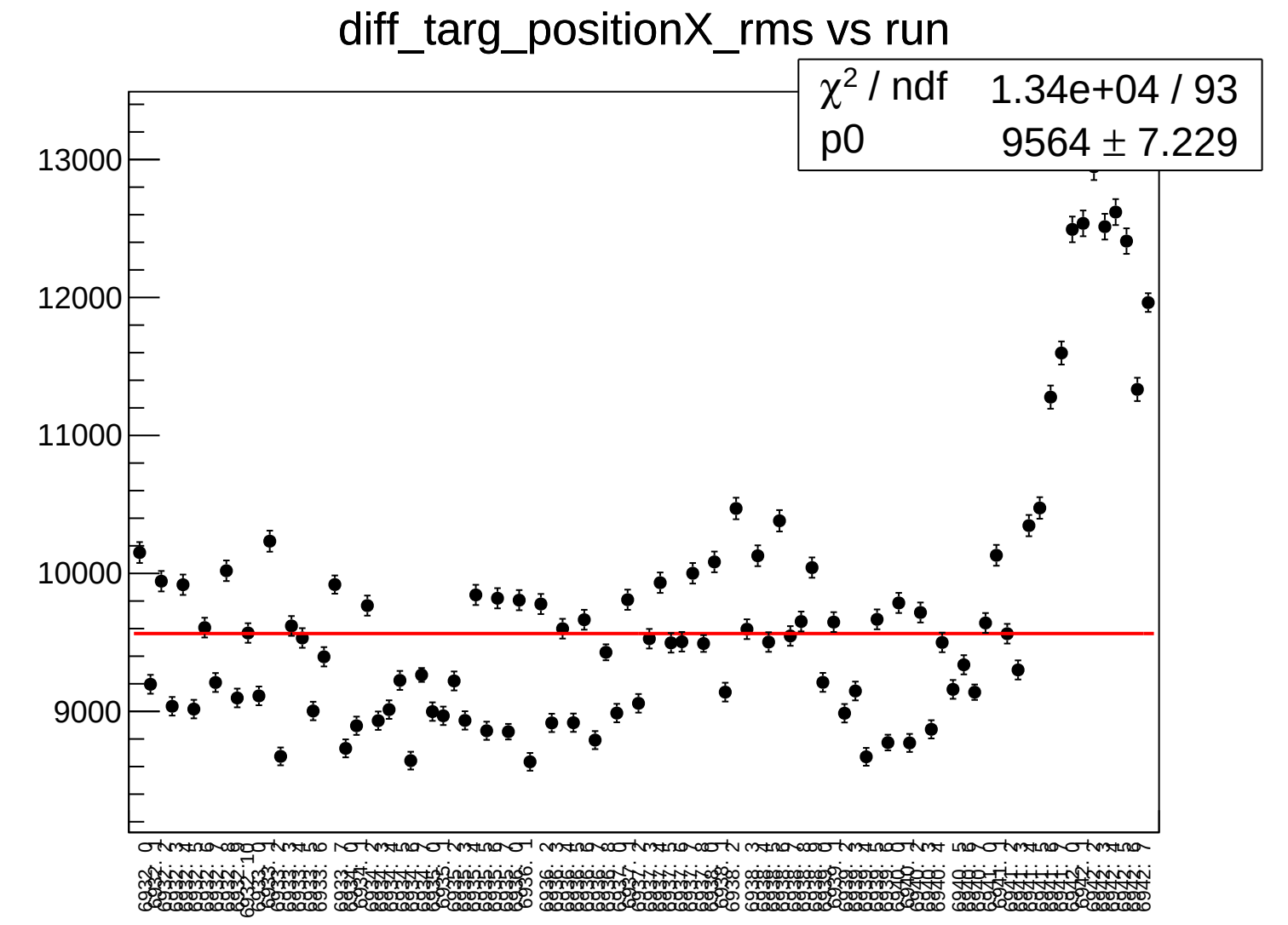

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 293.2 / 93
p0 1002 ± 0.7544
1040
1030
1020
1010
1000
990
980
970
960

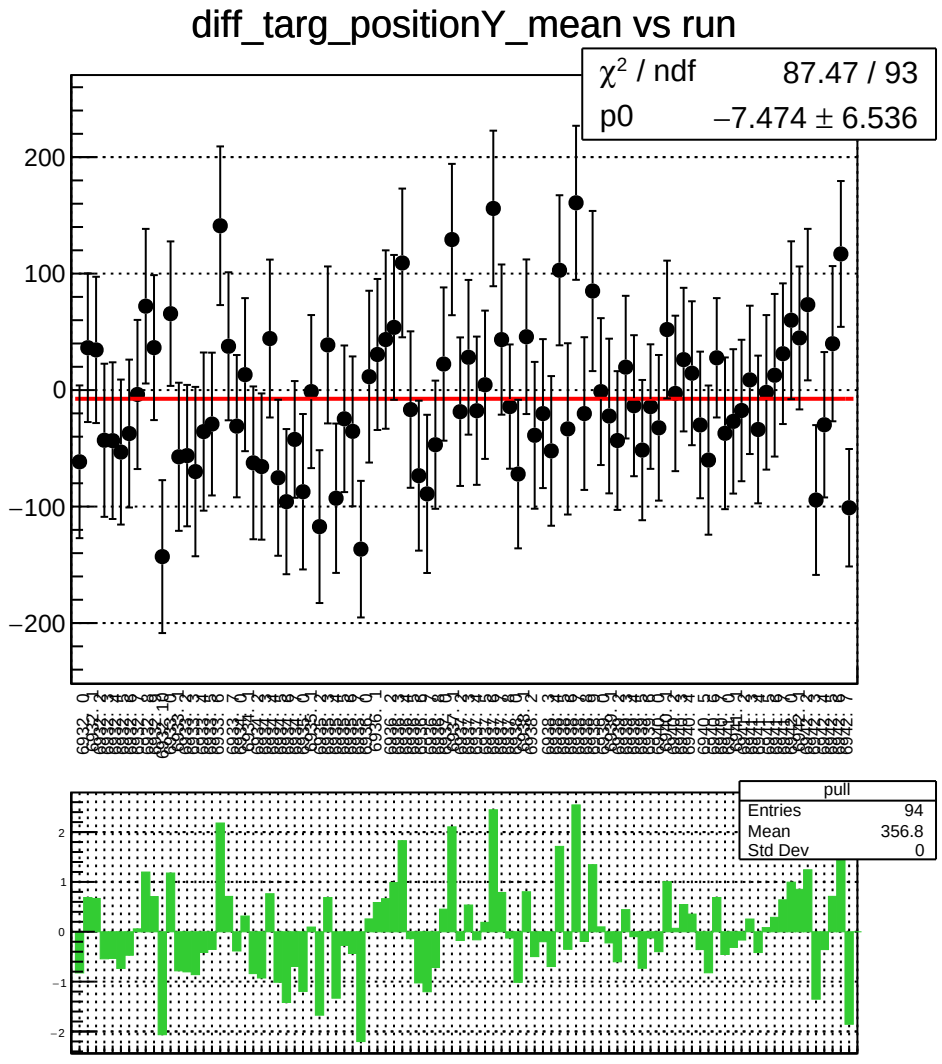

diff_dispE_bpm12X_mean vs run
χ² / ndf 87.99 / 93
p0 0.01157 ± 0.0101
pull
Entries 94
Mean 477.2
Std Dev 0

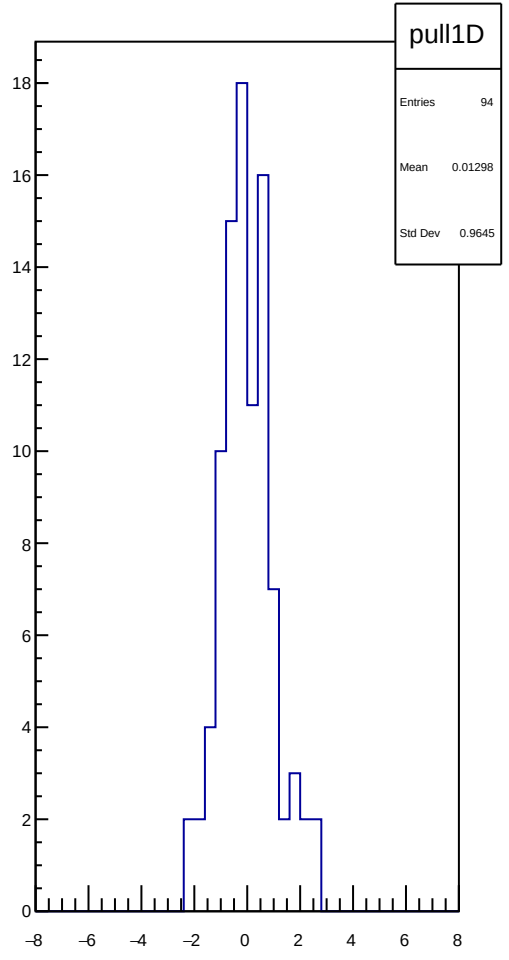

pull1D
Entries 94
Mean −0.006541
Std Dev 0.9675

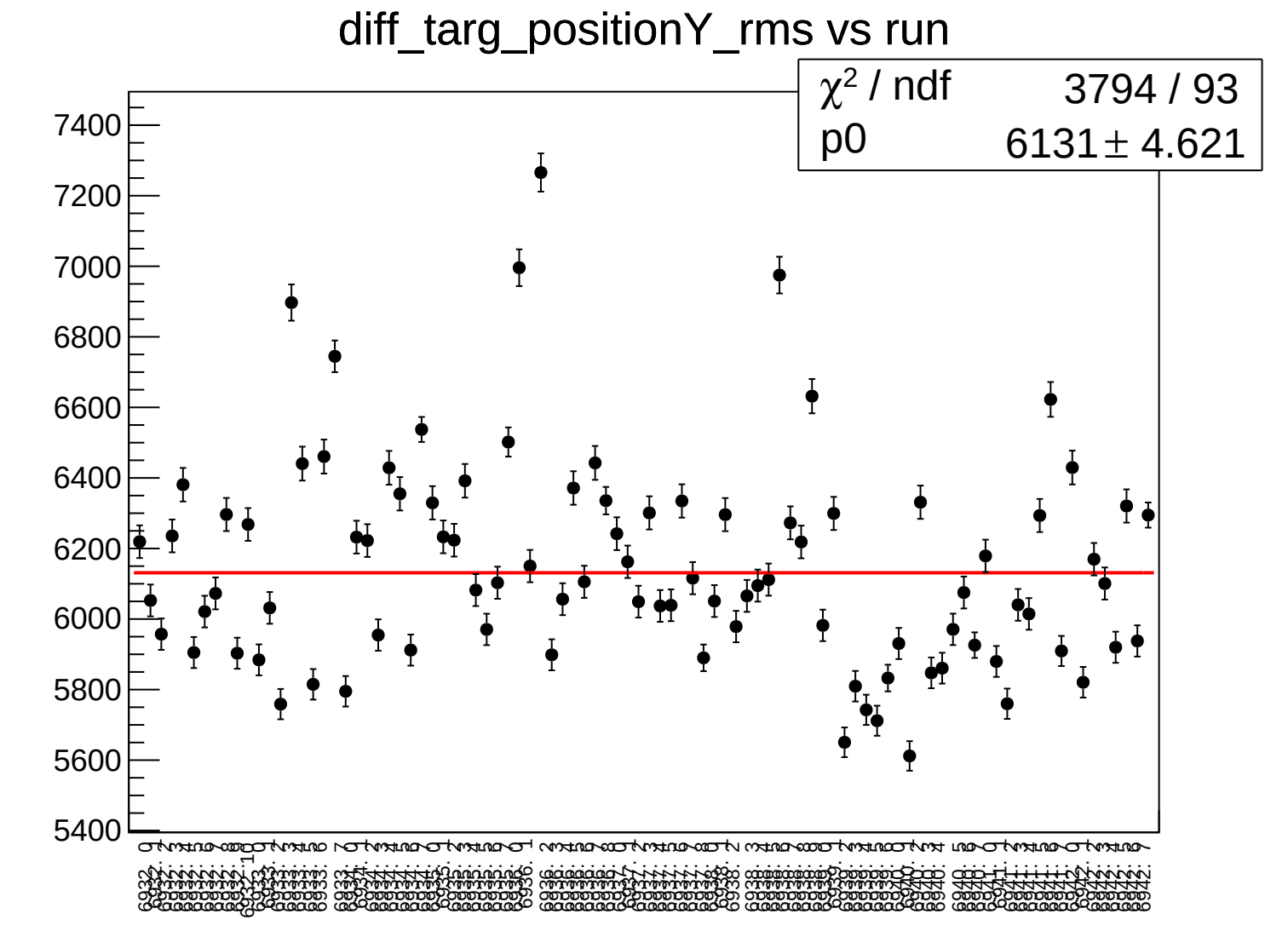

diff_dispE_bpm12X_rms vs run
χ² / ndf 5587 / 93
p0 9.471 ± 0.007143
11
10.5
10
9.5
9
8.5

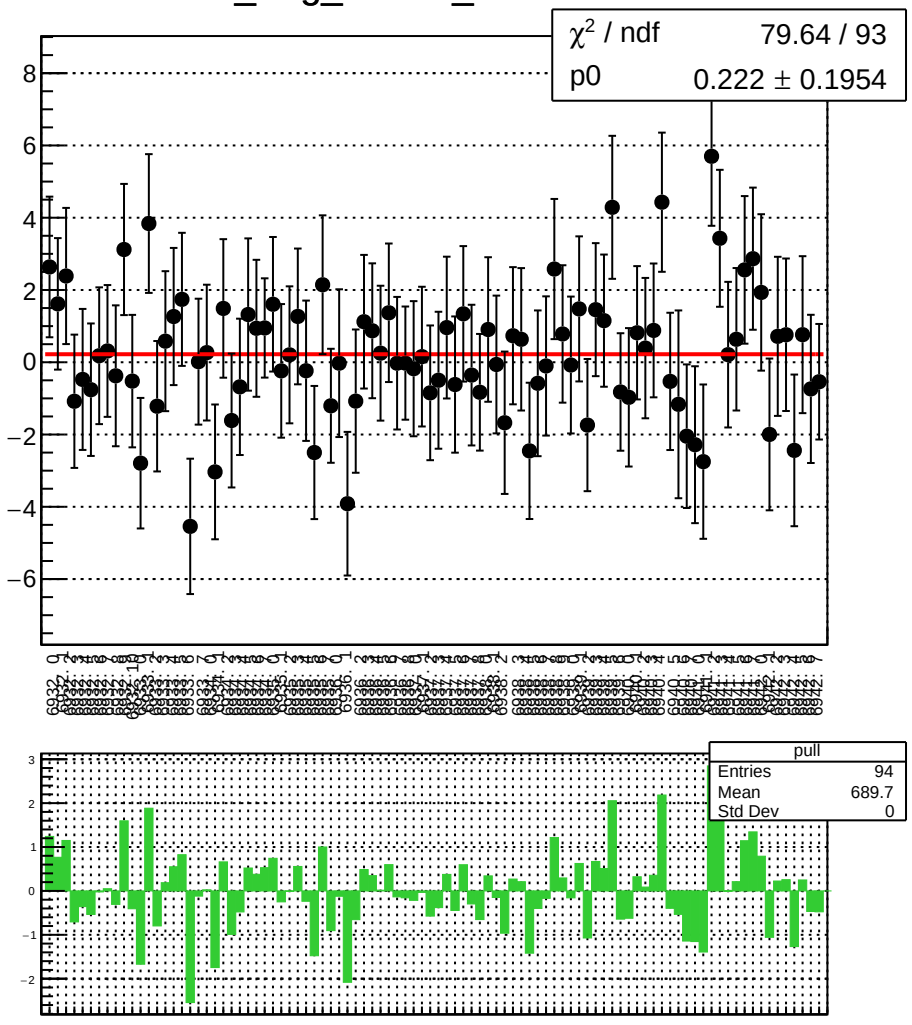

diff_targ_positionX_mean vs run
χ² / ndf 79.77 / 93
p0 −1.413 ± 10.22
pull
Entries 94
Mean 1856
Std Dev 0
pull1D
Entries 94
Mean −0.0005696
Std Dev 0.9212

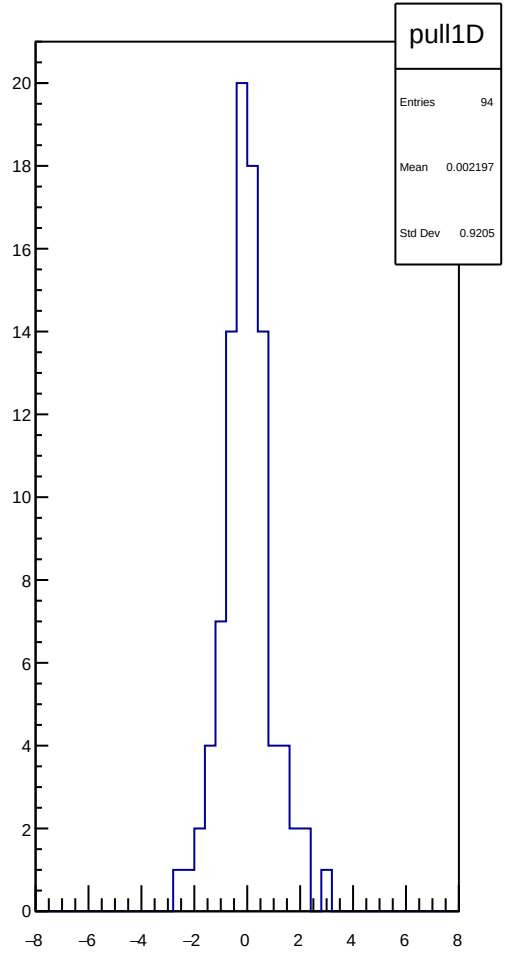

diff_targ_positionX_rms vs run
χ² / ndf 1.34e+04 / 93
p0 9564 ± 7.229
13000
12000
11000
10000
9000

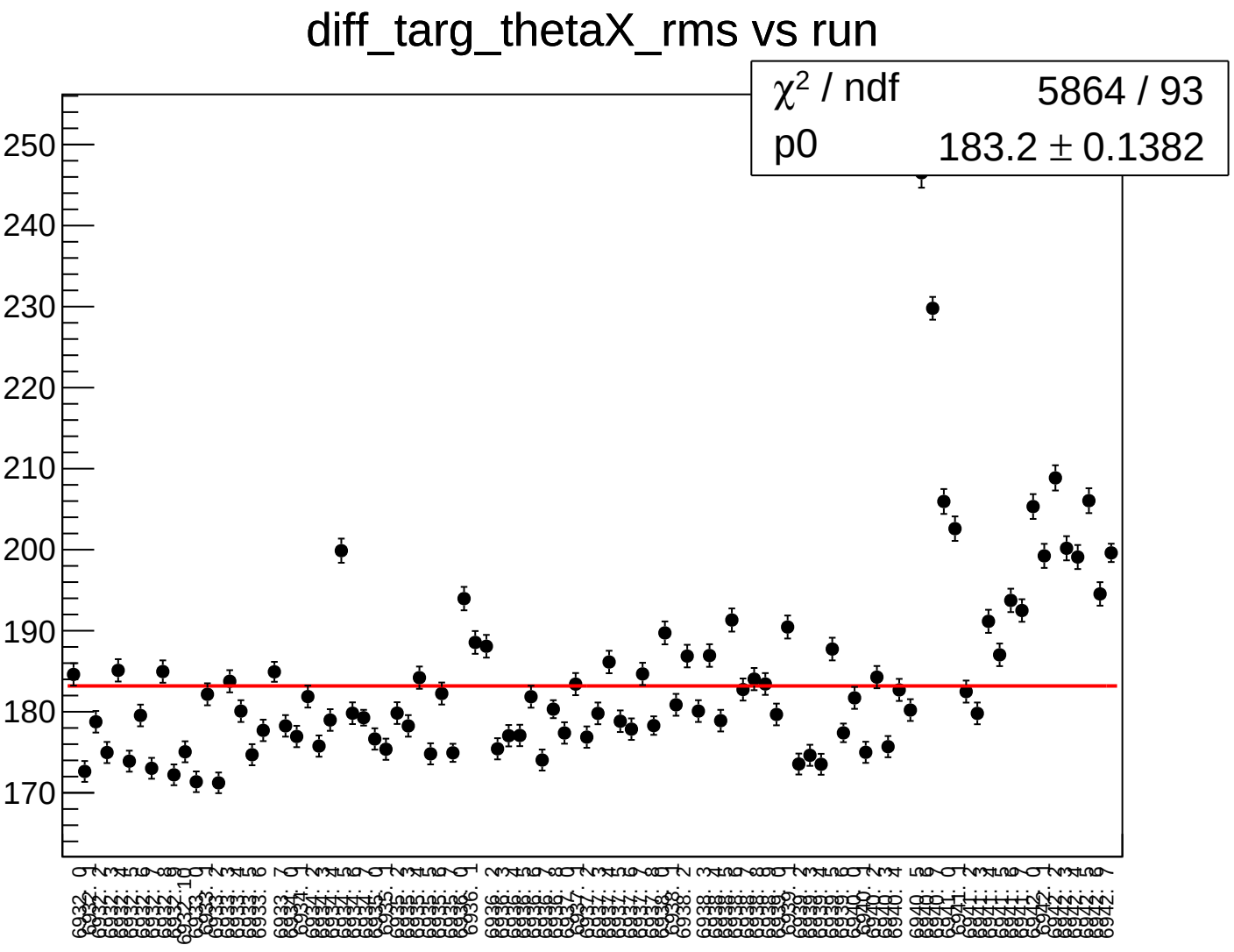

diff_targ_positionY_mean vs run
χ² / ndf 87.47 / 93
p0 −7.474 ± 6.536
200
100
0
−100
−200
pull
Entries 94
Mean 356.8
Std Dev 0
2
1
0
−1
−2

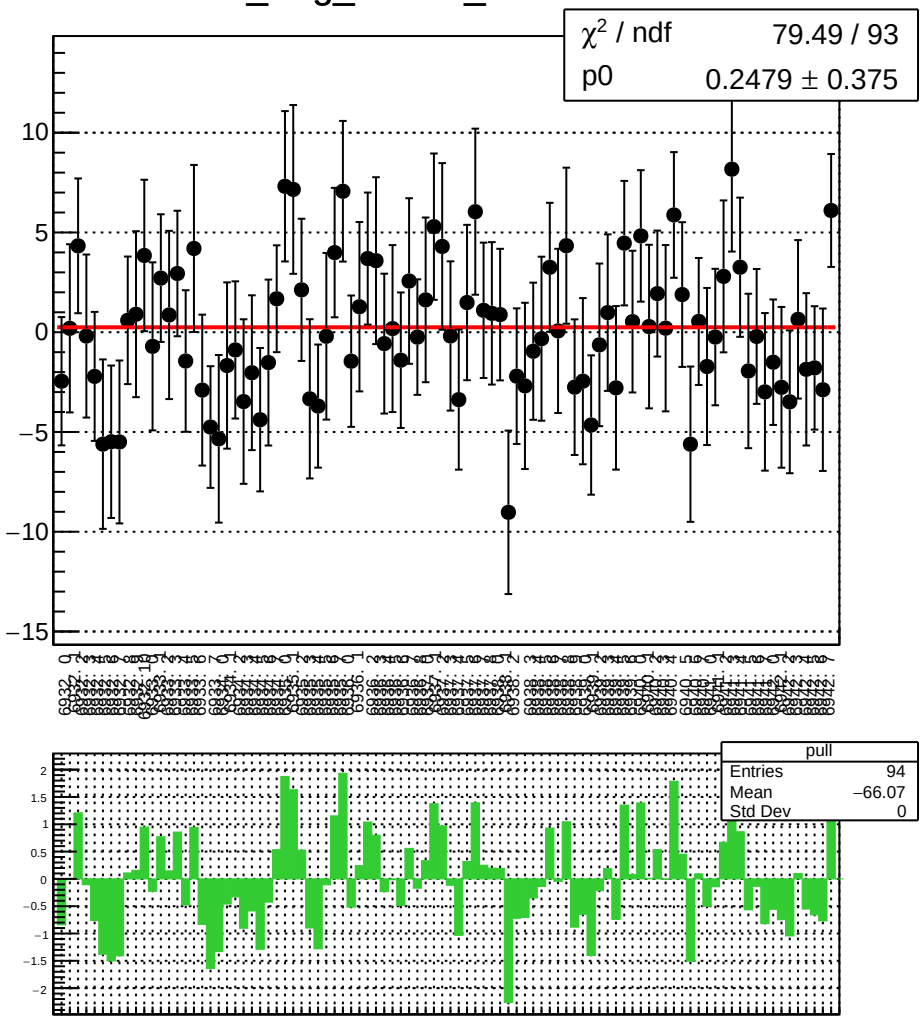

pull1D
Entries 94
Mean 0.01298
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

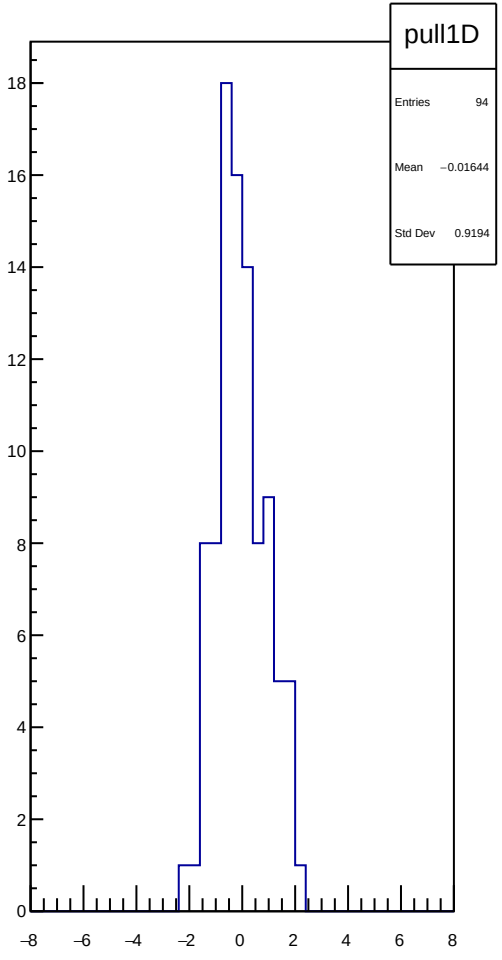

diff_targ_positionY_rms vs run
χ² / ndf 3794 / 93
p0 6131 ± 4.621
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

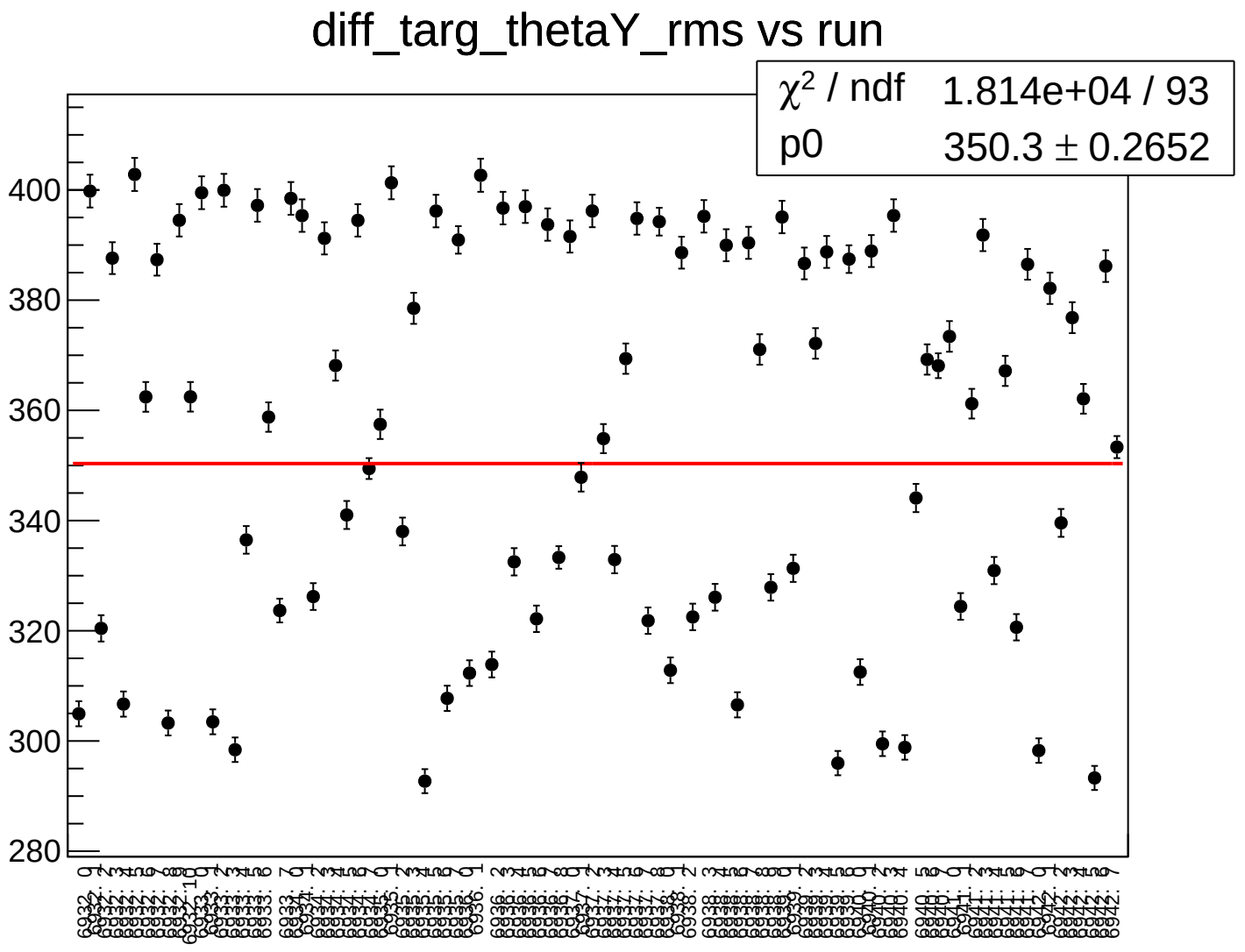

diff_targ_thetaX_mean vs run
χ² / ndf 79.64 / 93
p0 0.222 ± 0.1954
pull
Entries 94
Mean 689.7
Std Dev 0

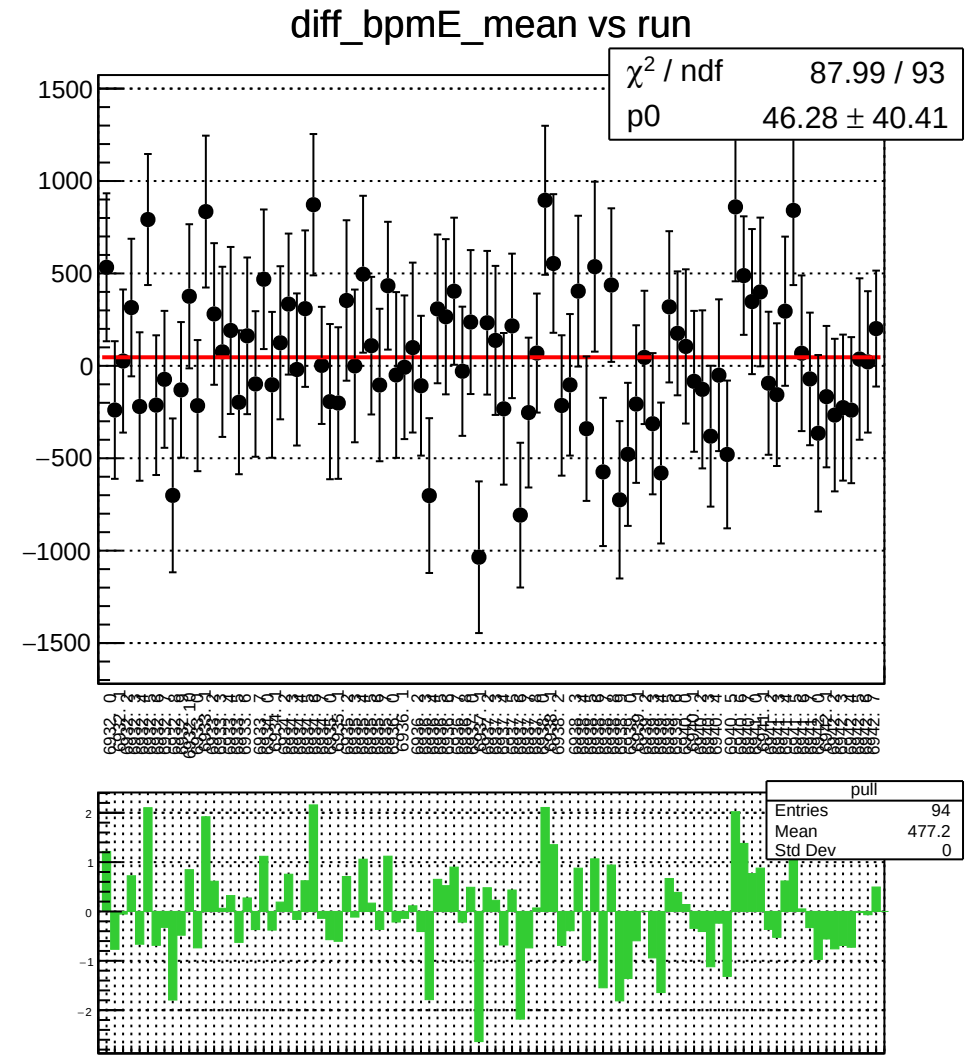

pull1D
Entries 94
Mean 0.002197
Std Dev 0.9205

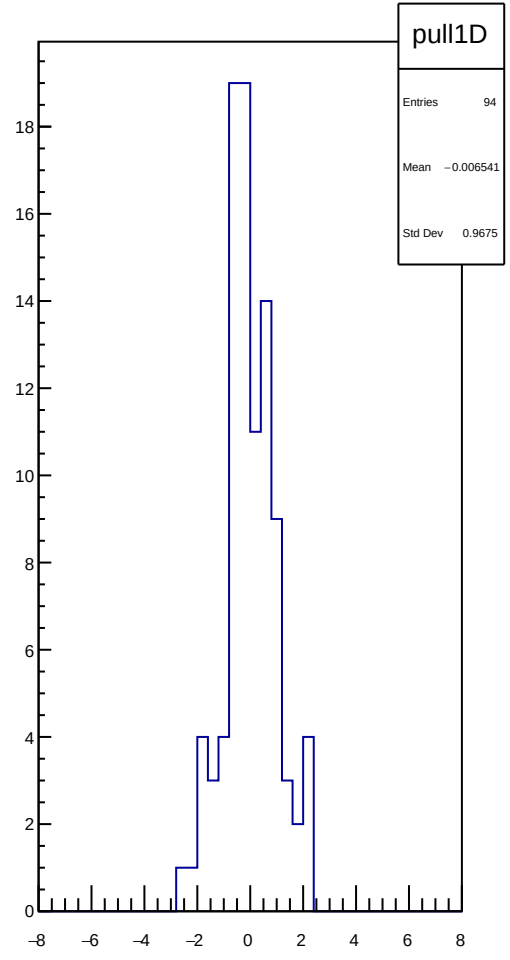

diff_targ_thetaX_rms vs run
χ² / ndf 5864 / 93
p0 183.2 ± 0.1382
250
240
230
220
210
200
190
180
170

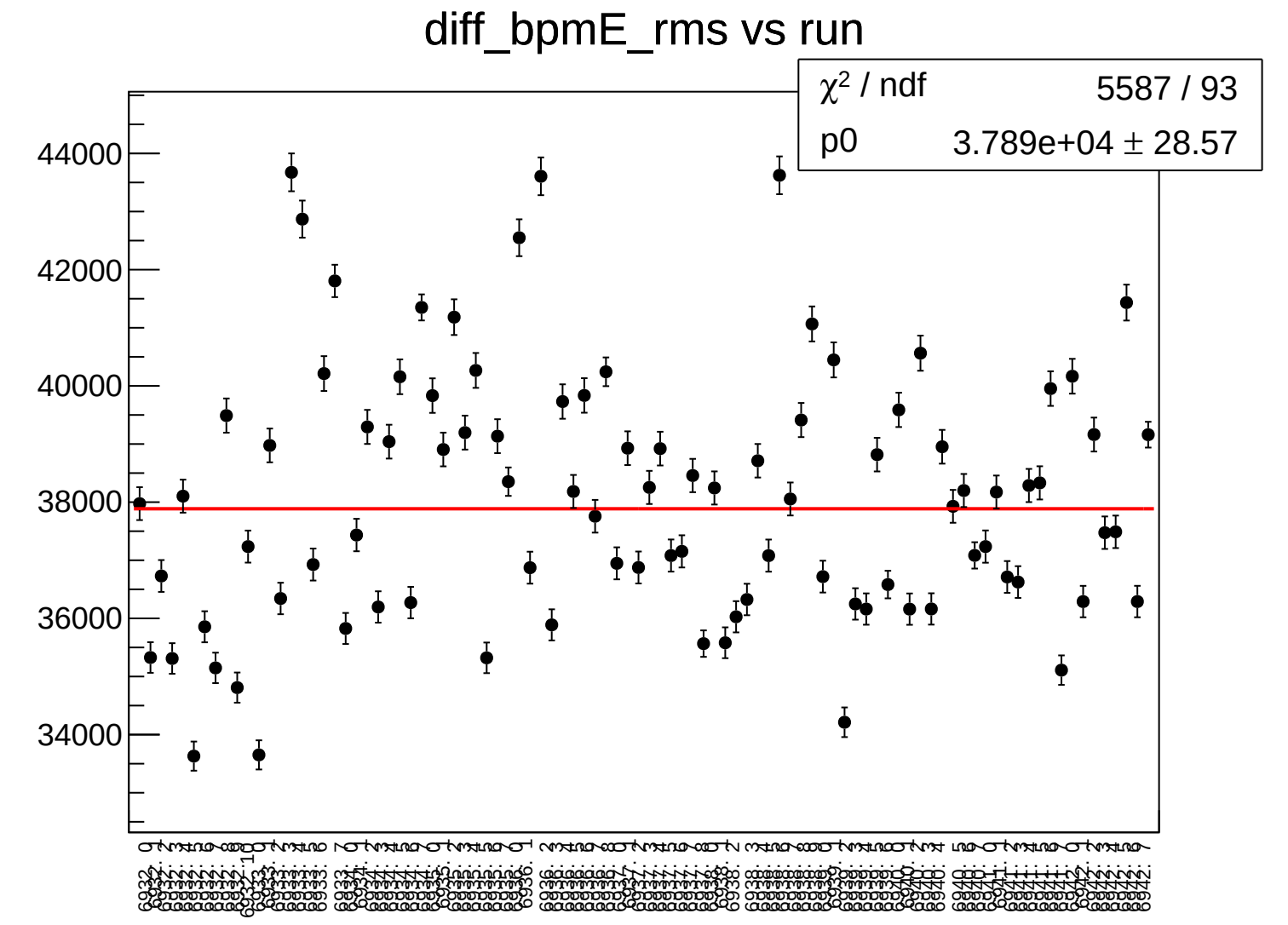

diff_targ_thetaY_mean vs run
χ² / ndf 79.49 / 93
p0 0.2479 ± 0.375
pull
Entries 94
Mean −66.07
Std Dev 0

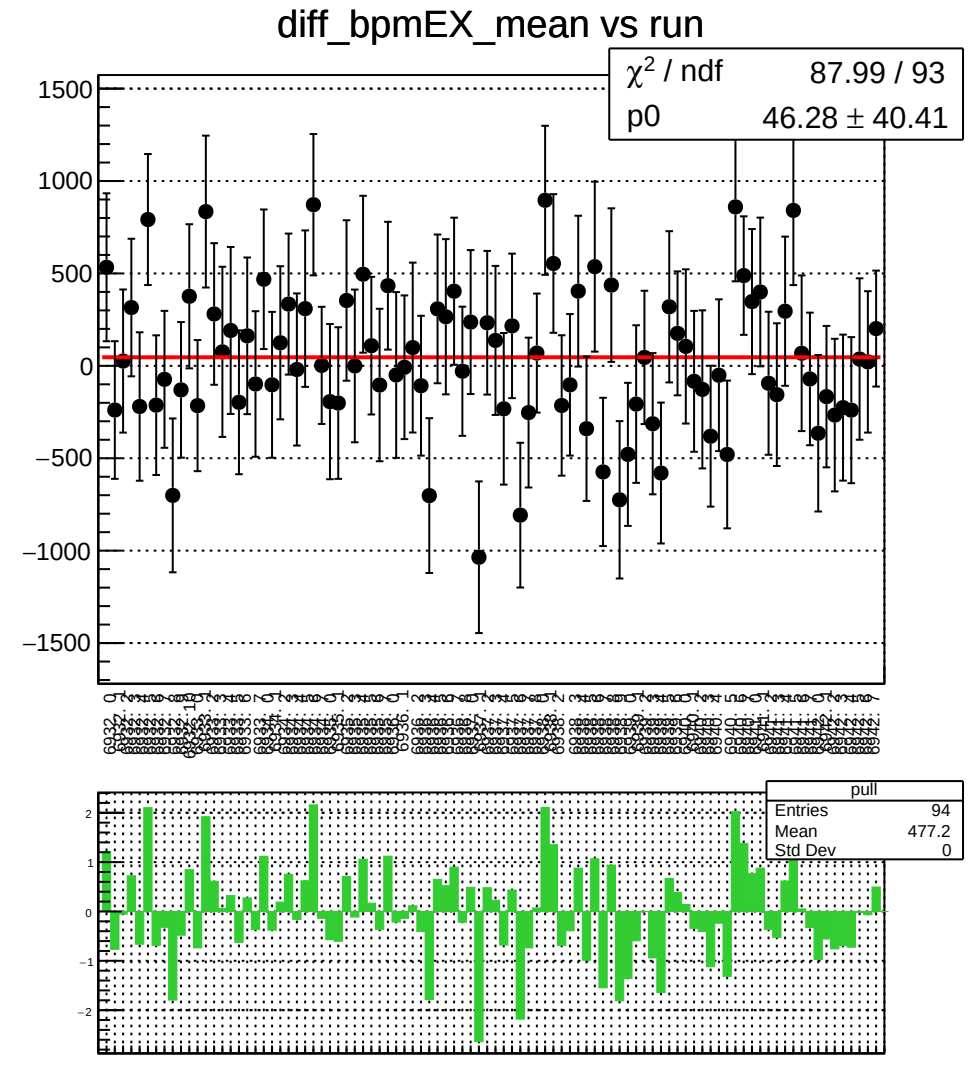

pull1D
Entries 94
Mean −0.01644
Std Dev 0.9194

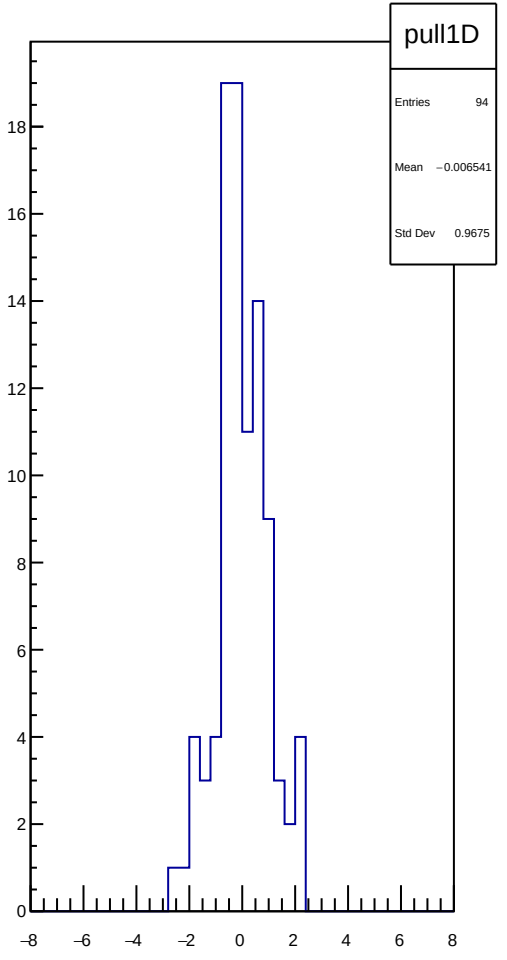

diff_targ_thetaY_rms vs run
χ² / ndf 1.814e+04 / 93
p0 350.3 ± 0.2652
400
380
360
340
320
300
280

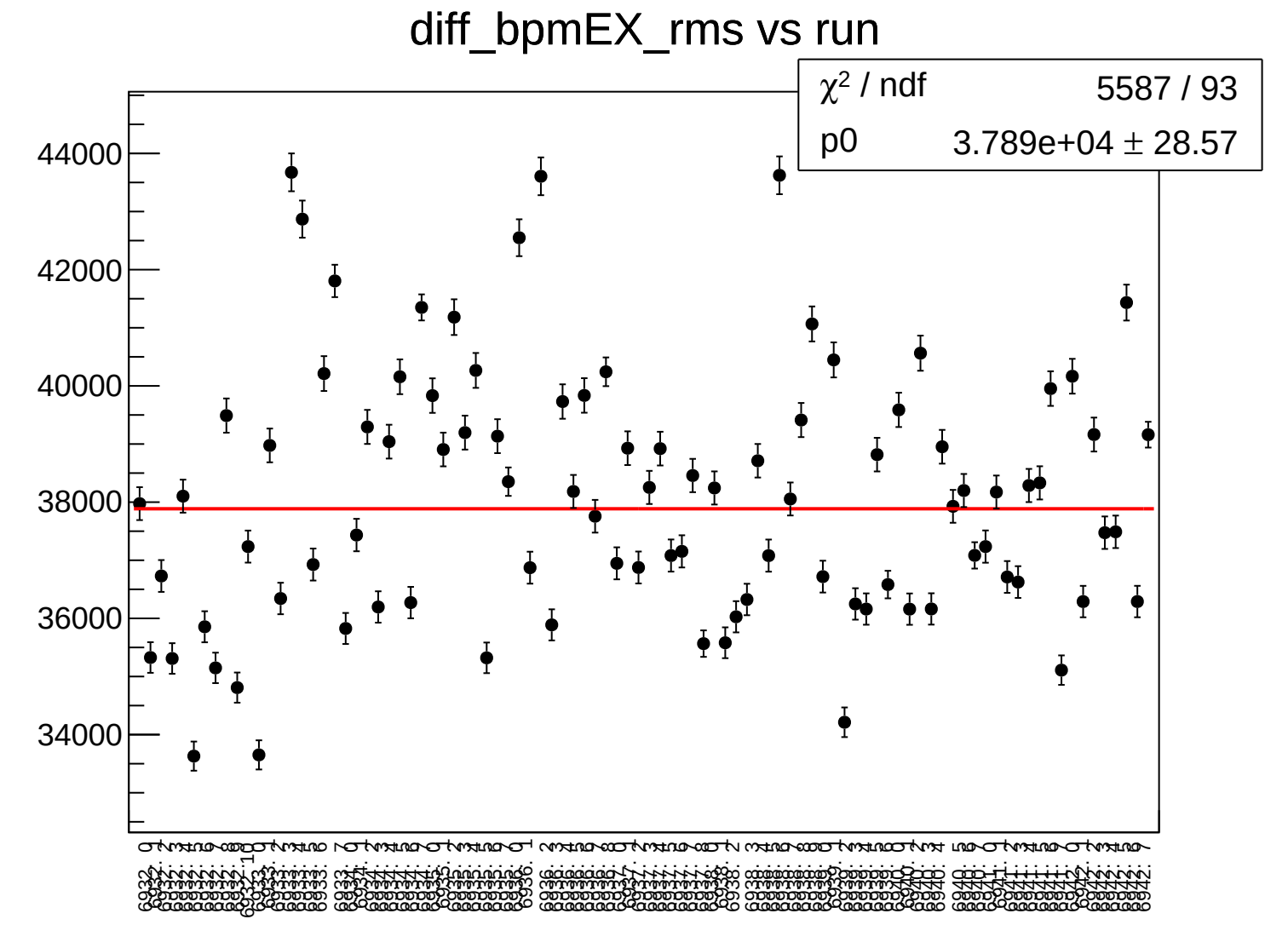

diff_bpmE_mean vs run
χ² / ndf 87.99 / 93
p0 46.28 ± 40.41
pull
Entries 94
Mean 477.2
Std Dev 0

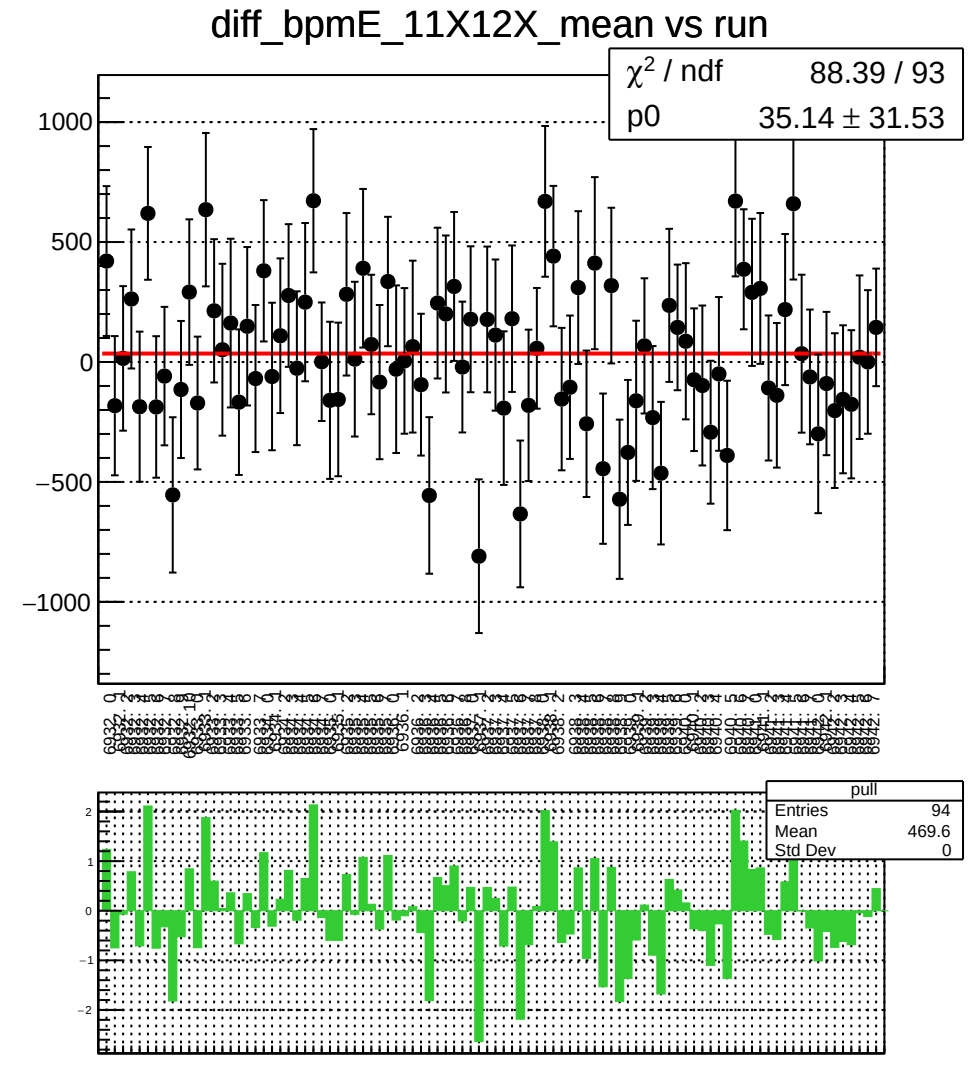

pull1D
Entries 94
Mean −0.006541
Std Dev 0.9675

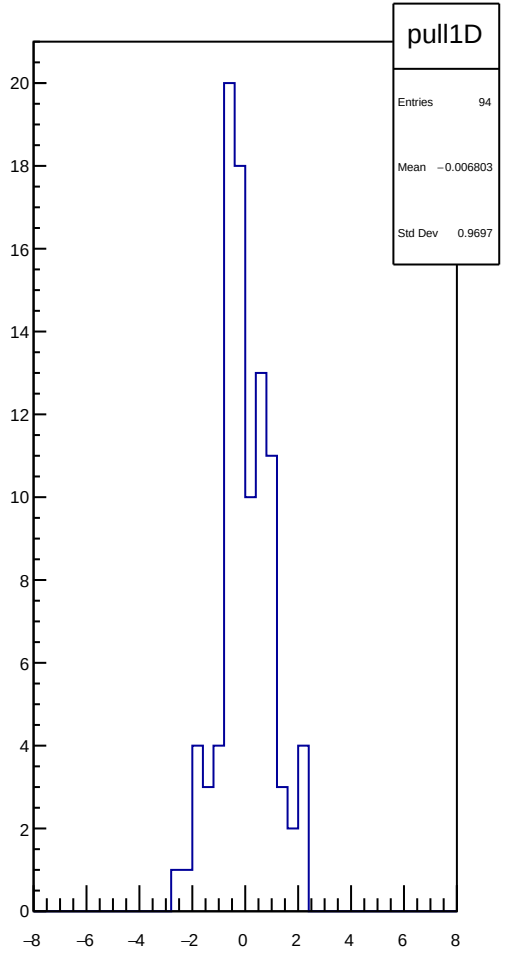

diff_bpmE_rms vs run
χ² / ndf 5587 / 93
p0 3.789e+04 ± 28.57
44000
42000
40000
38000
36000
34000

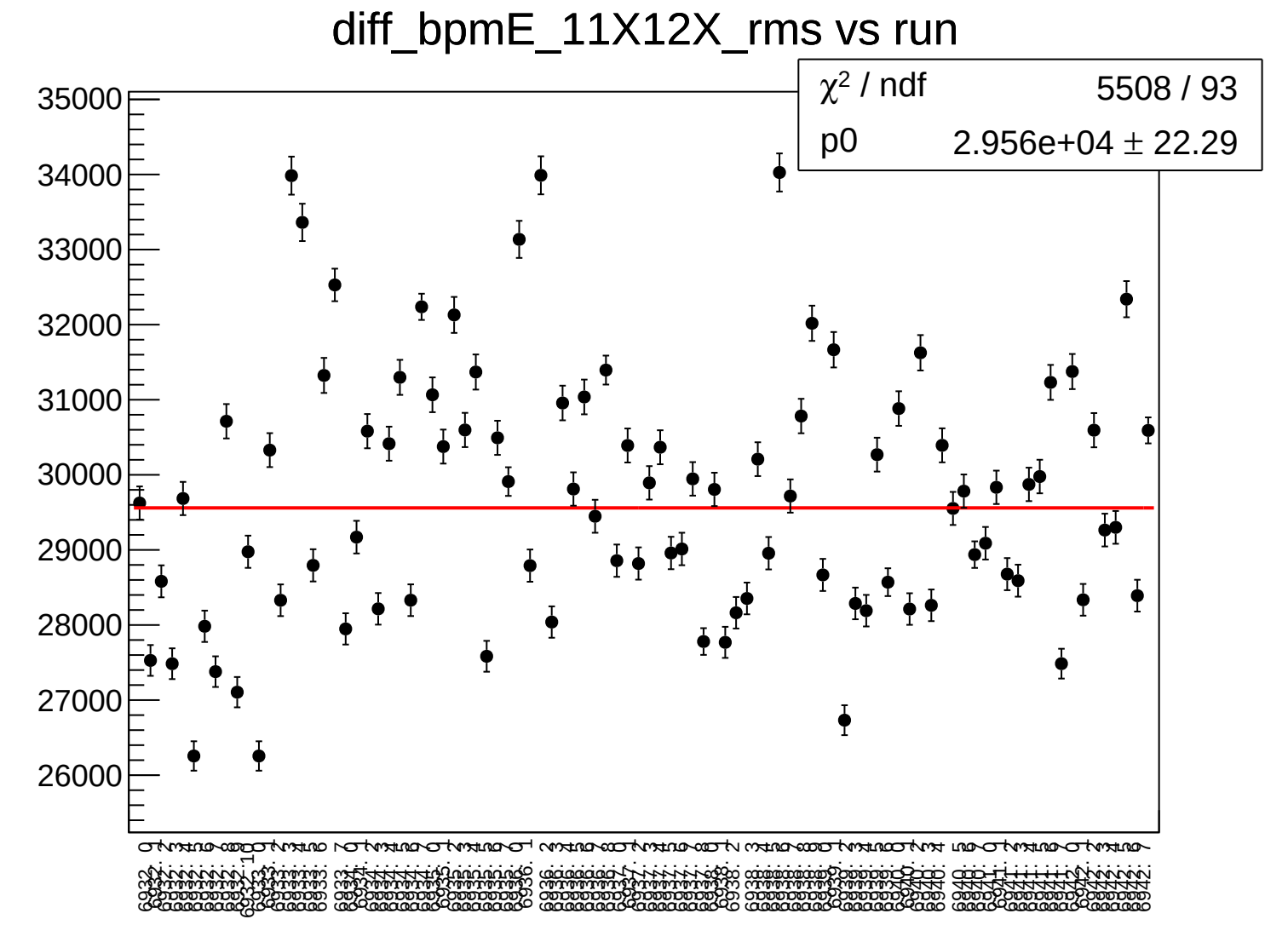

diff_bpmEX_mean vs run
χ² / ndf 87.99 / 93
p0 46.28 ± 40.41
pull
Entries 94
Mean 477.2
Std Dev 0

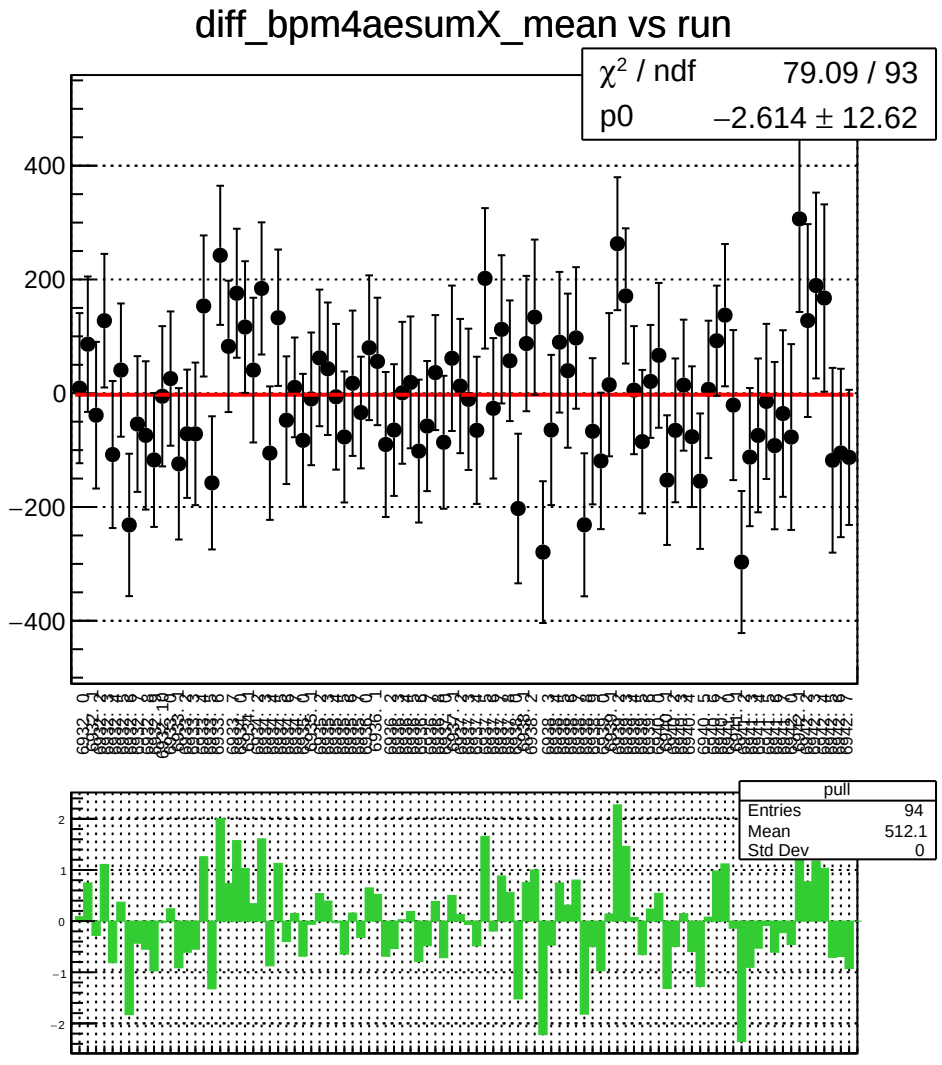

pull1D
Entries 94
Mean −0.006541
Std Dev 0.9675

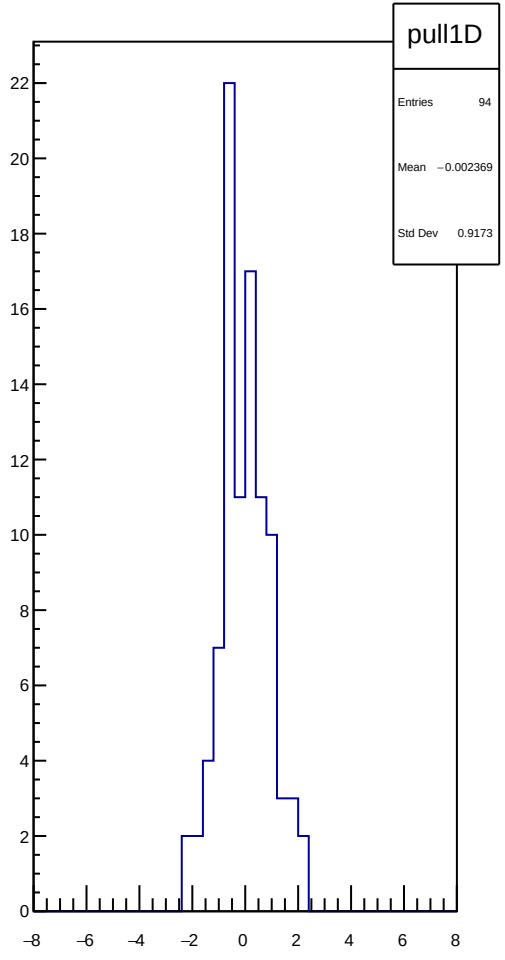

diff_bpmEX_rms vs run
χ² / ndf 5587 / 93
p0 3.789e+04 ± 28.57
44000
42000
40000
38000
36000
34000

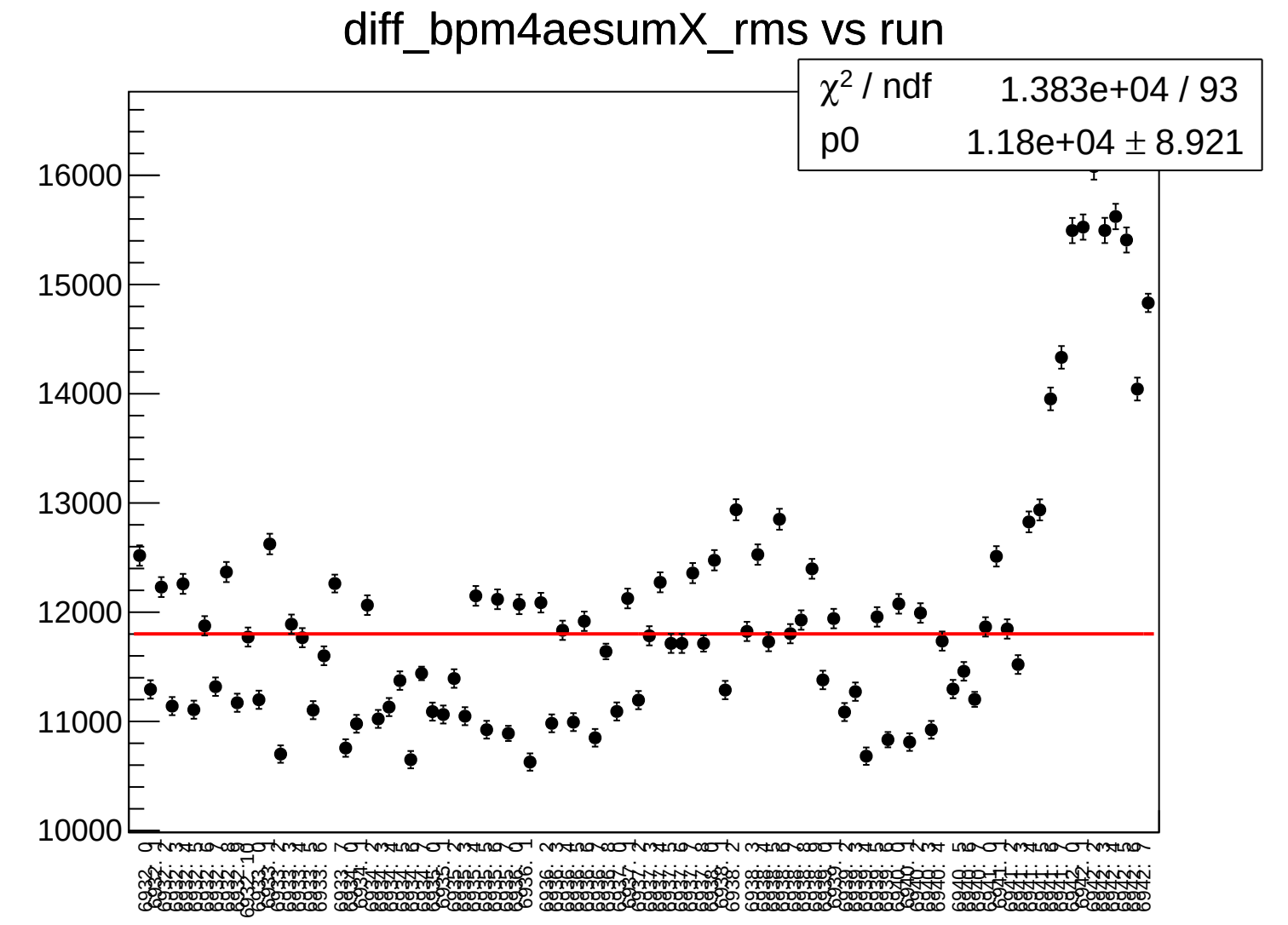

diff_bpmE_11X12X_mean vs run
χ² / ndf 88.39 / 93
p0 35.14 ± 31.53
1000
500
0
−500
−1000
pull
Entries 94
Mean 469.6
Std Dev 0
2
1
0
−1
−2

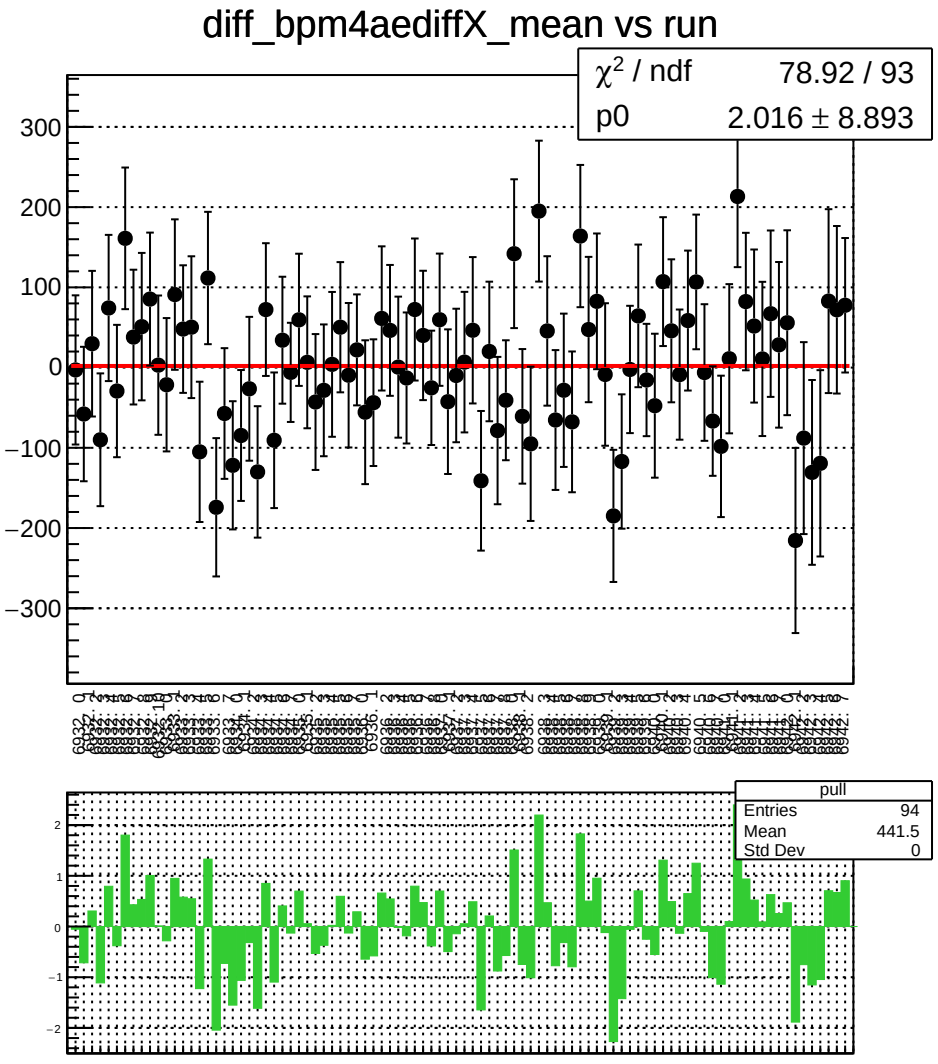

pull1D
Entries 94
Mean −0.006803
Std Dev 0.9697
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

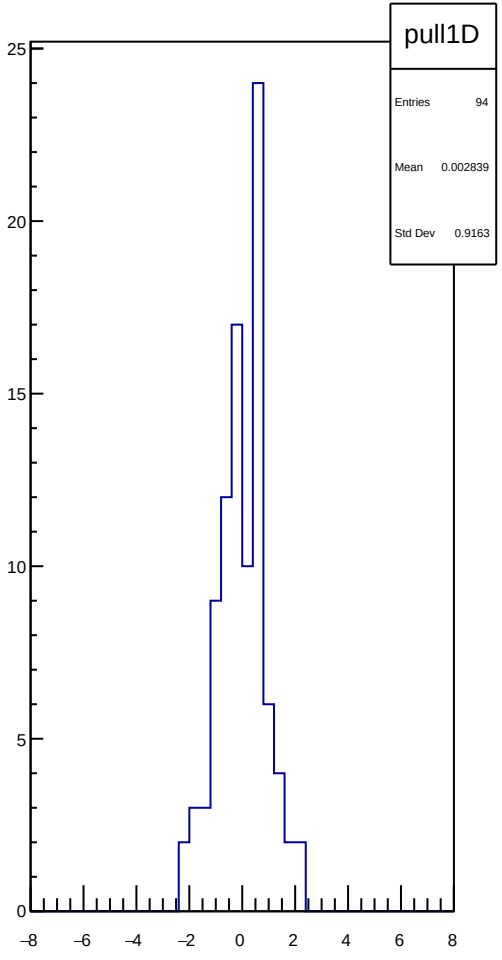

diff_bpmE_11X12X_rms vs run
χ² / ndf 5508 / 93
p0 2.956e+04 ± 22.29
35000
34000
33000
32000
31000
30000
29000
28000
27000
26000

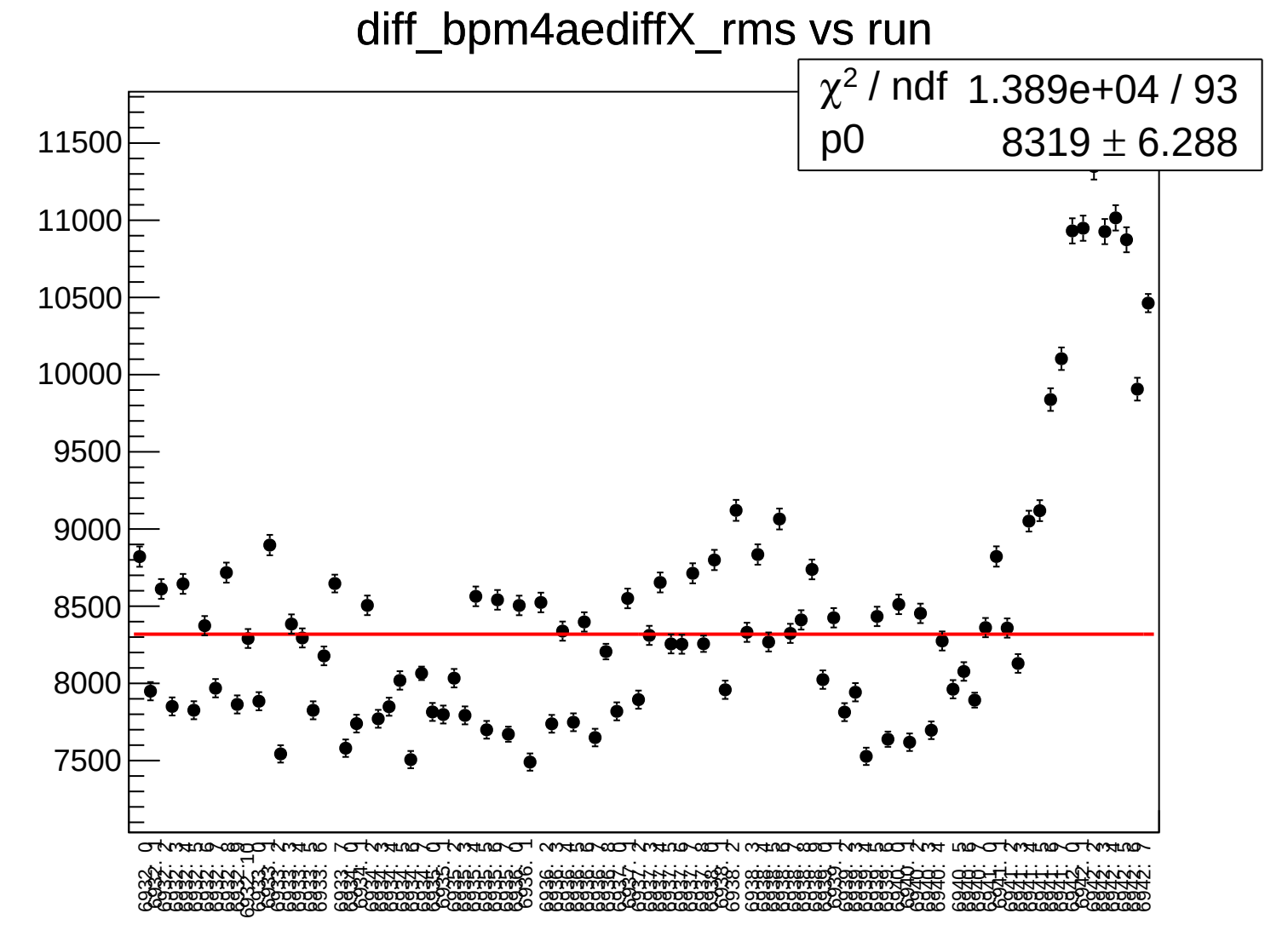

diff_bpm4aesumX_mean vs run
χ² / ndf 79.09 / 93
p0 −2.614 ± 12.62
400
200
0
−200
−400
pull
Entries 94
Mean 512.1
Std Dev 0
2
1
0
−1
−2

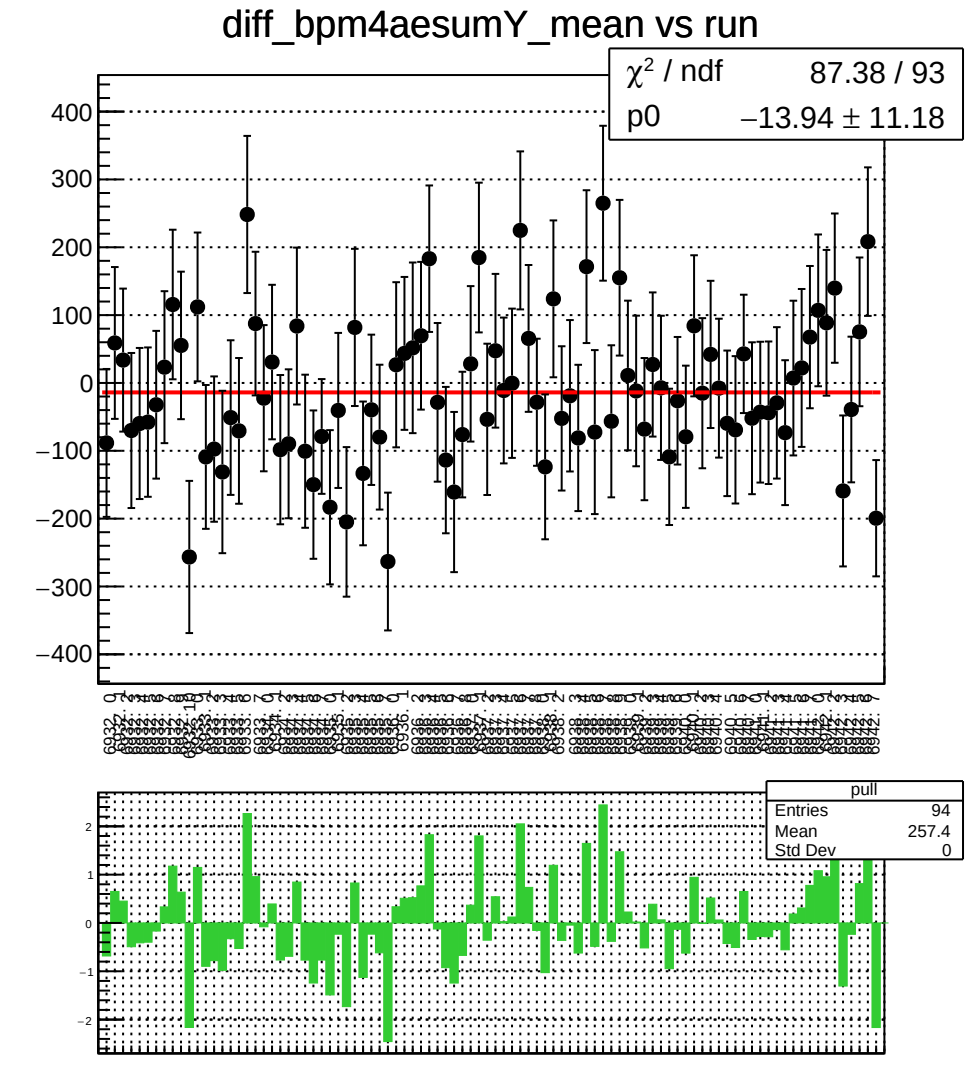

pull1D
Entries 94
Mean −0.002369
Std Dev 0.9173
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

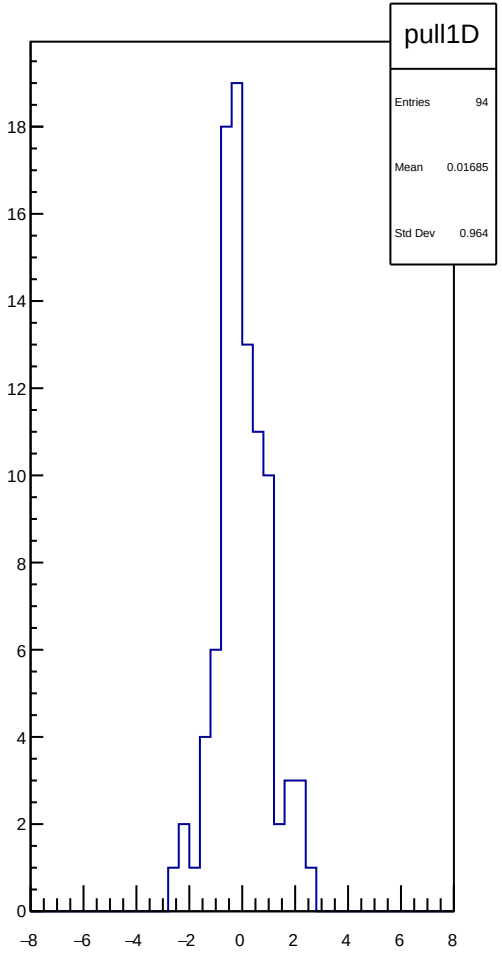

diff_bpm4aesumX_rms vs run
χ² / ndf 1.383e+04 / 93
p0 1.18e+04 ± 8.921
16000
15000
14000
13000
12000
11000
10000

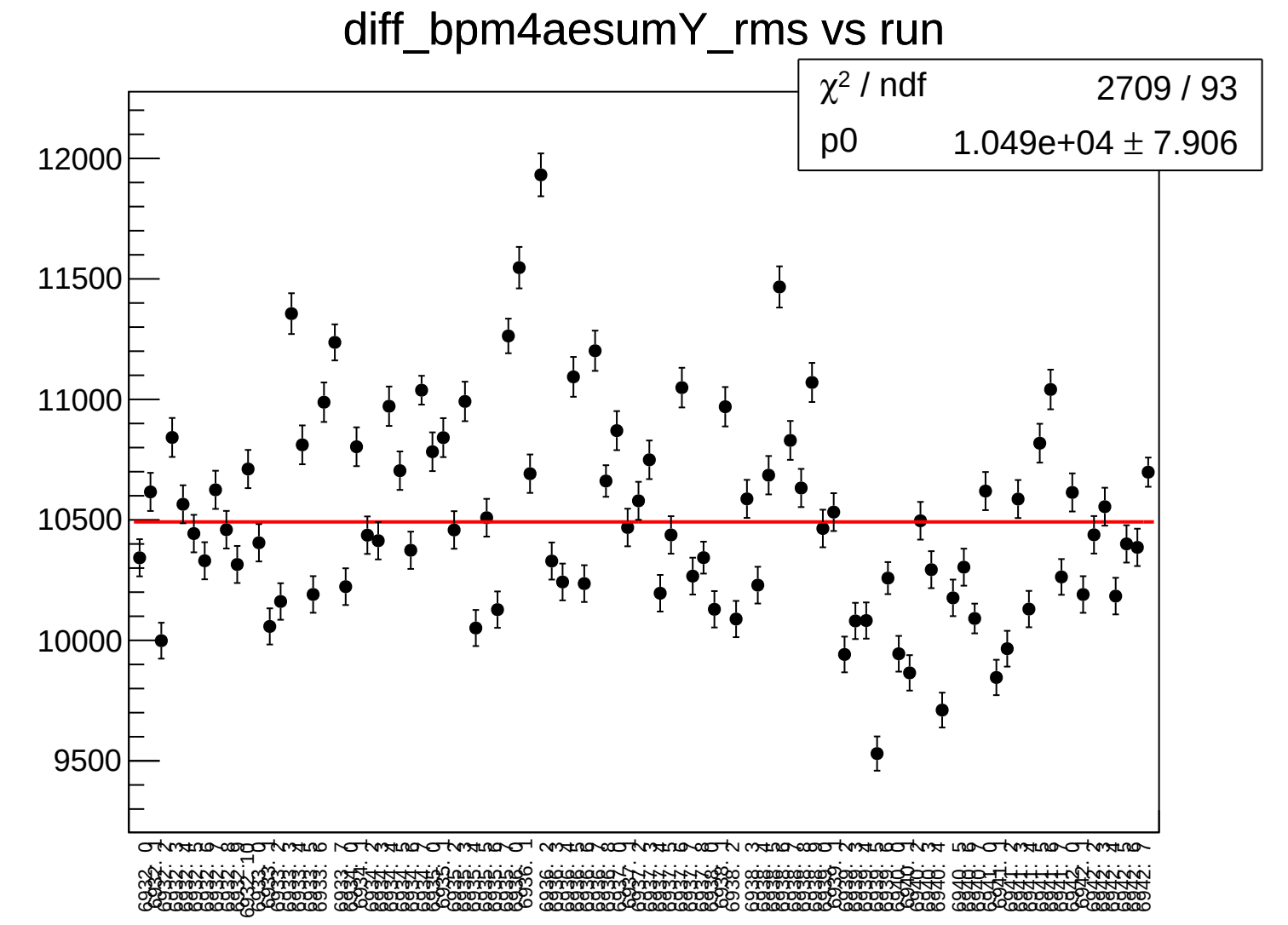

diff_bpm4aediffX_mean vs run
χ² / ndf 78.92 / 93
p0 2.016 ± 8.893
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 441.5
Std Dev 0
2
1
0
−1
−2

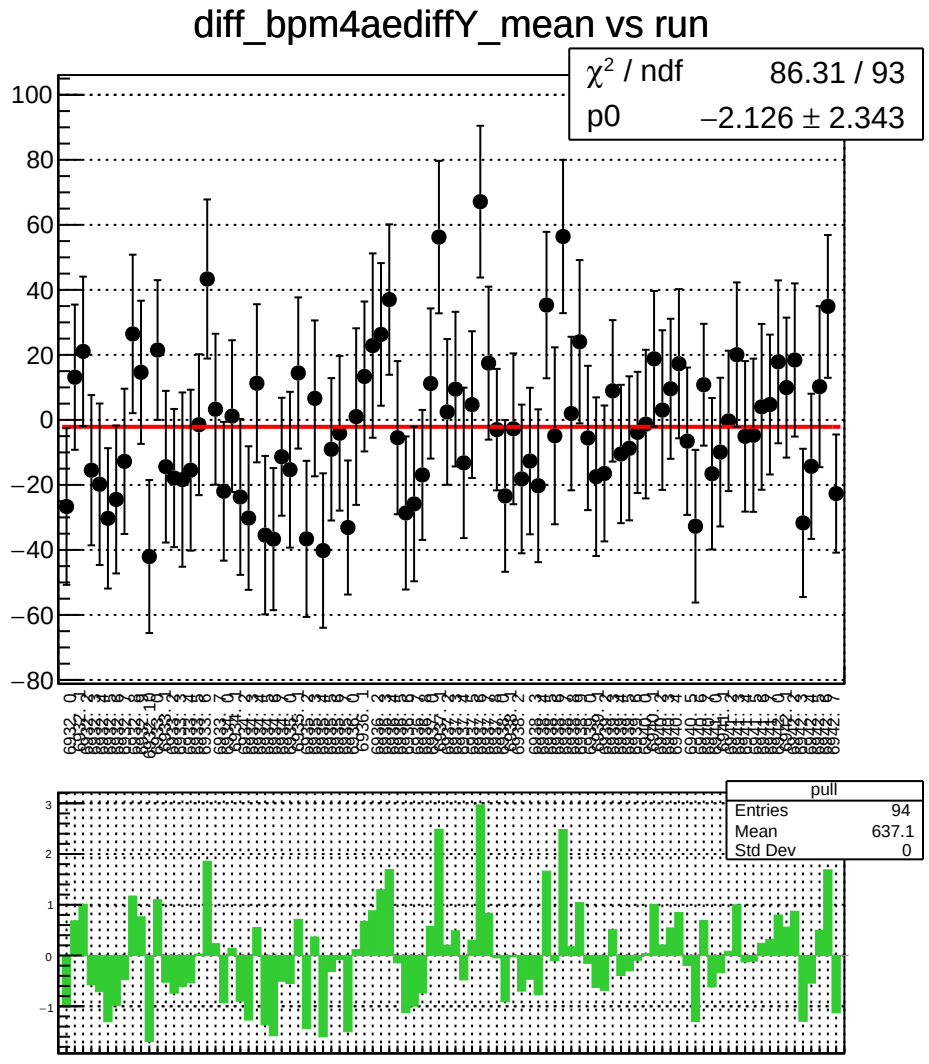

pull1D
Entries 94
Mean 0.002839
Std Dev 0.9163
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

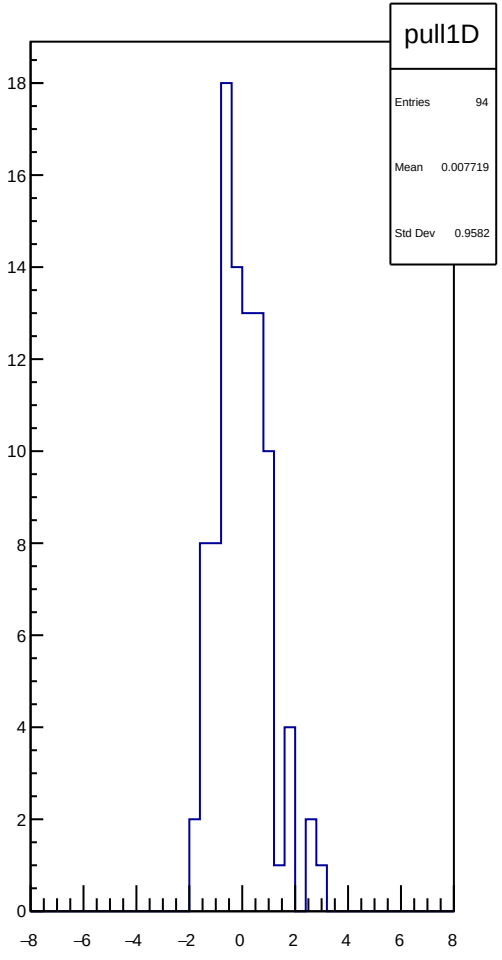

diff_bpm4aediffX_rms vs run
χ² / ndf 1.389e+04 / 93
p0 8319 ± 6.288
11500
11000
10500
10000
9500
9000
8500
8000
7500

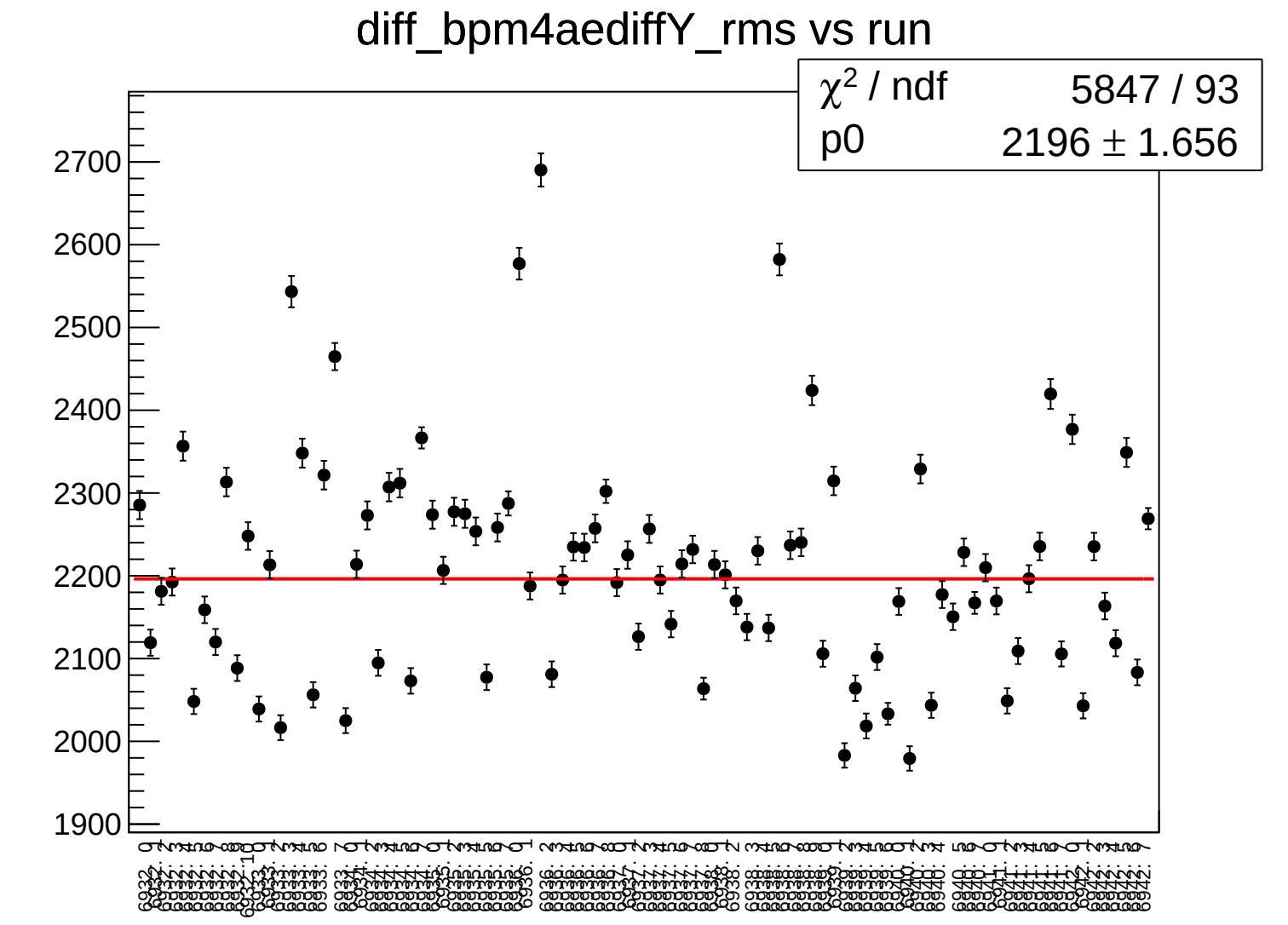

diff_bpm4aesumY_mean vs run
χ² / ndf 87.38 / 93
p0 −13.94 ± 11.18
pull
Entries 94
Mean 257.4
Std Dev 0

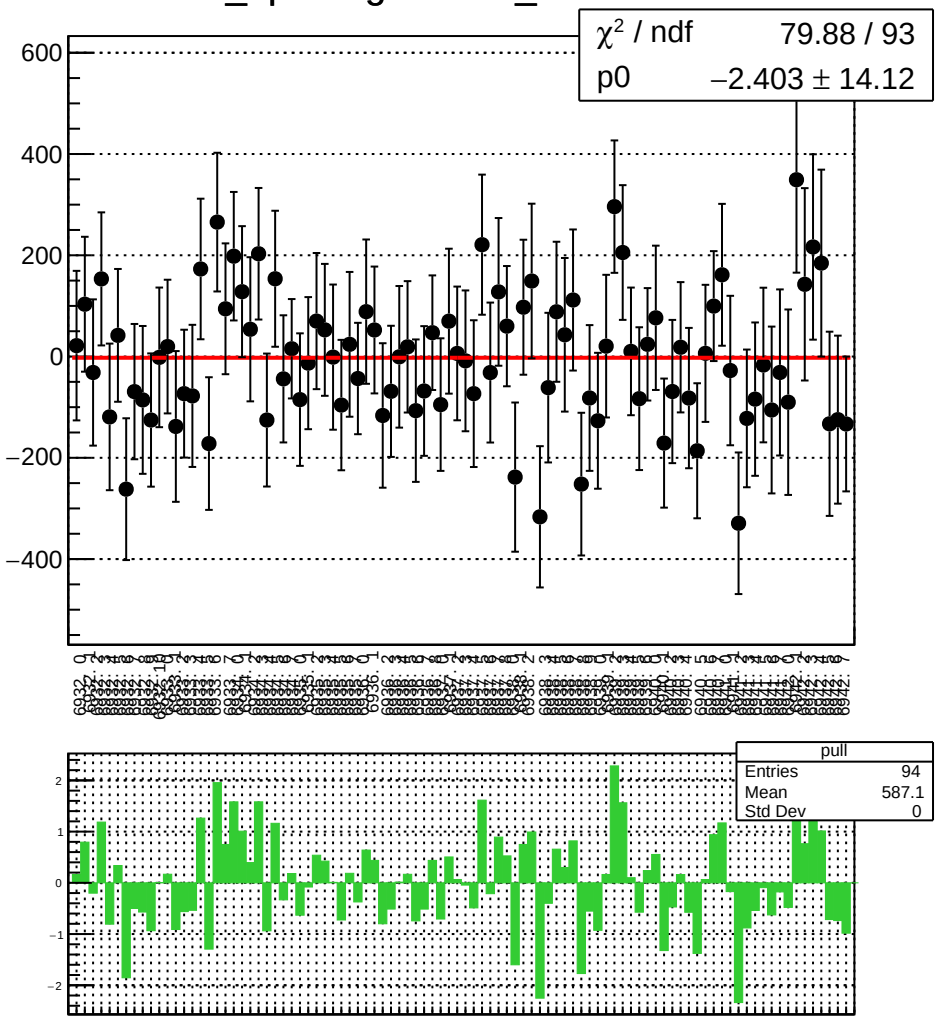

pull1D
Entries 94
Mean 0.01685
Std Dev 0.964

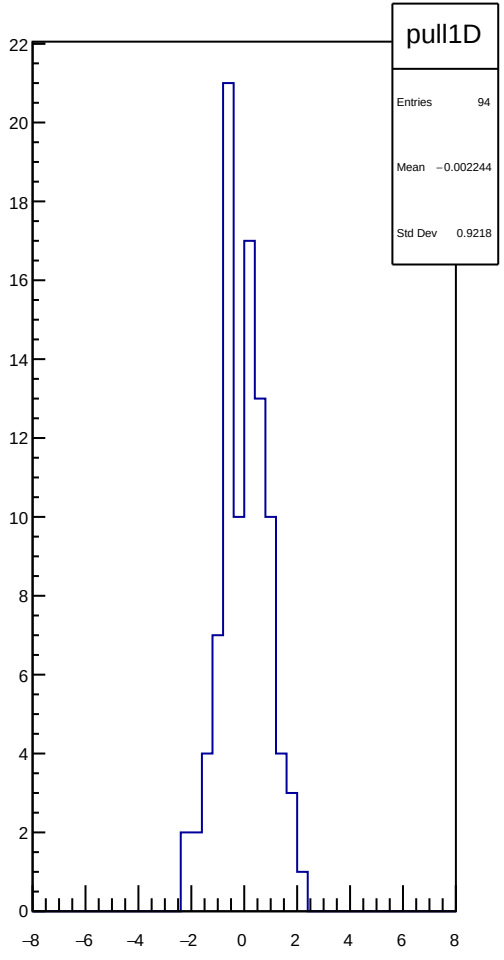

diff_bpm4aesumY_rms vs run
χ² / ndf 2709 / 93
p0 1.049e+04 ± 7.906
12000
11500
11000
10500
10000
9500

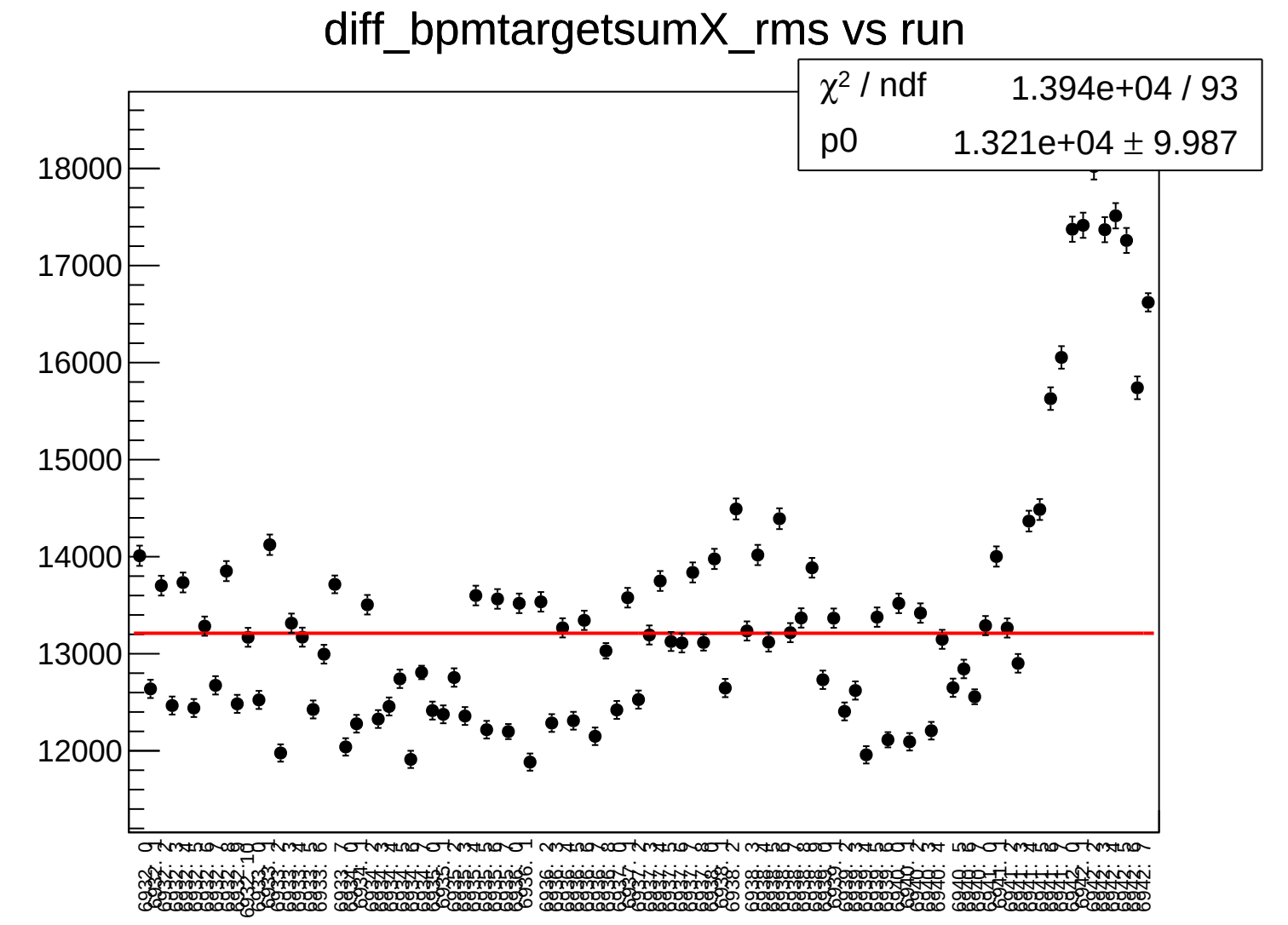

diff_bpm4aediffY_mean vs run
χ² / ndf 86.31 / 93
p0 −2.126 ± 2.343
pull
Entries 94
Mean 637.1
Std Dev 0

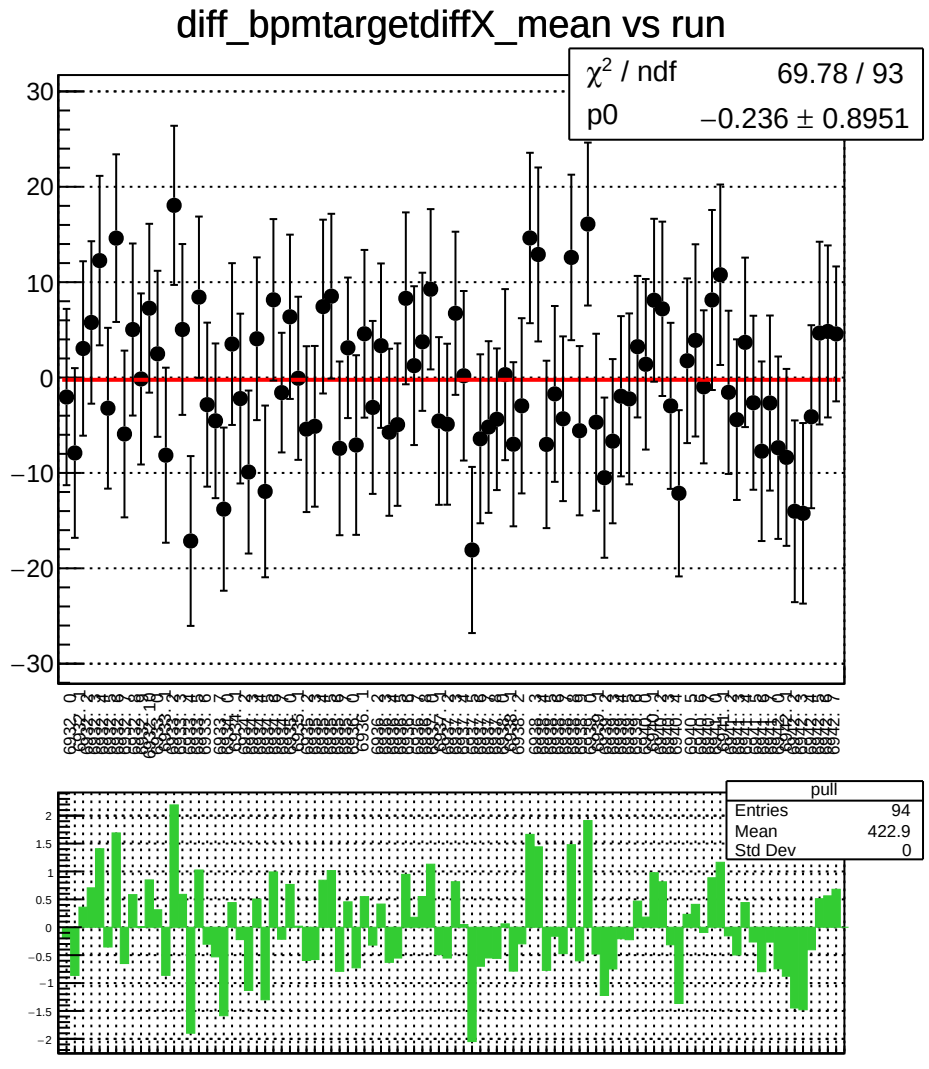

pull1D
Entries 94
Mean 0.007719
Std Dev 0.9582

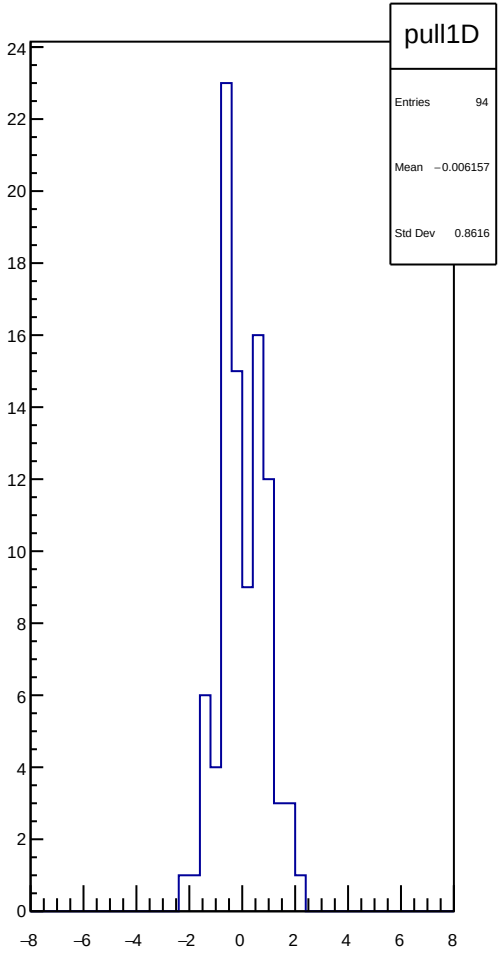

diff_bpm4aediffY_rms vs run
χ² / ndf 5847 / 93
p0 2196 ± 1.656
2700
2600
2500
2400
2300
2200
2100
2000
1900

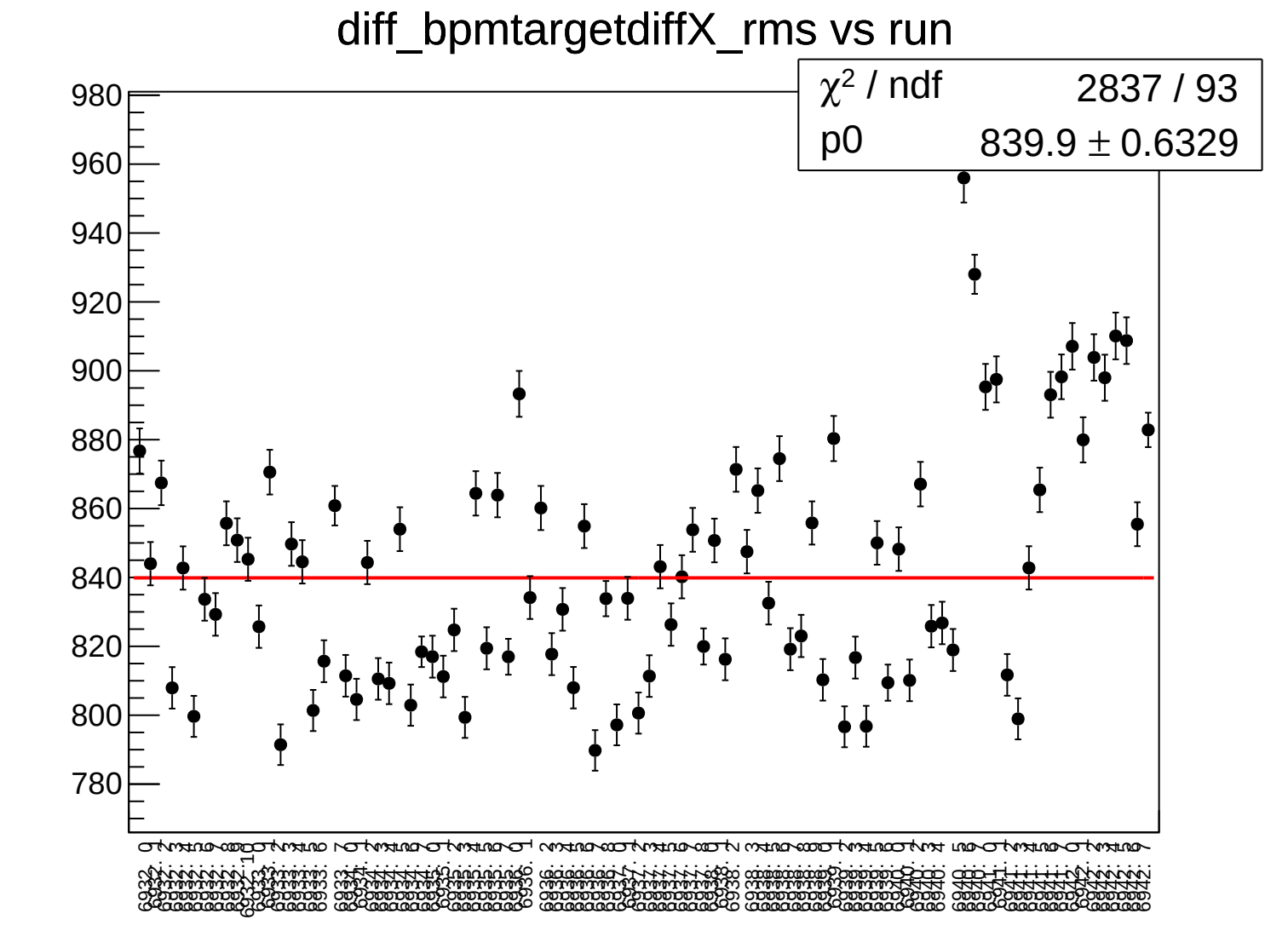

diff_bpmtargetsumX_mean vs run
χ² / ndf 79.88 / 93
p0 −2.403 ± 14.12
600
400
200
0
−200
−400
pull
Entries 94
Mean 587.1
Std Dev 0
2
1
0
−1
−2

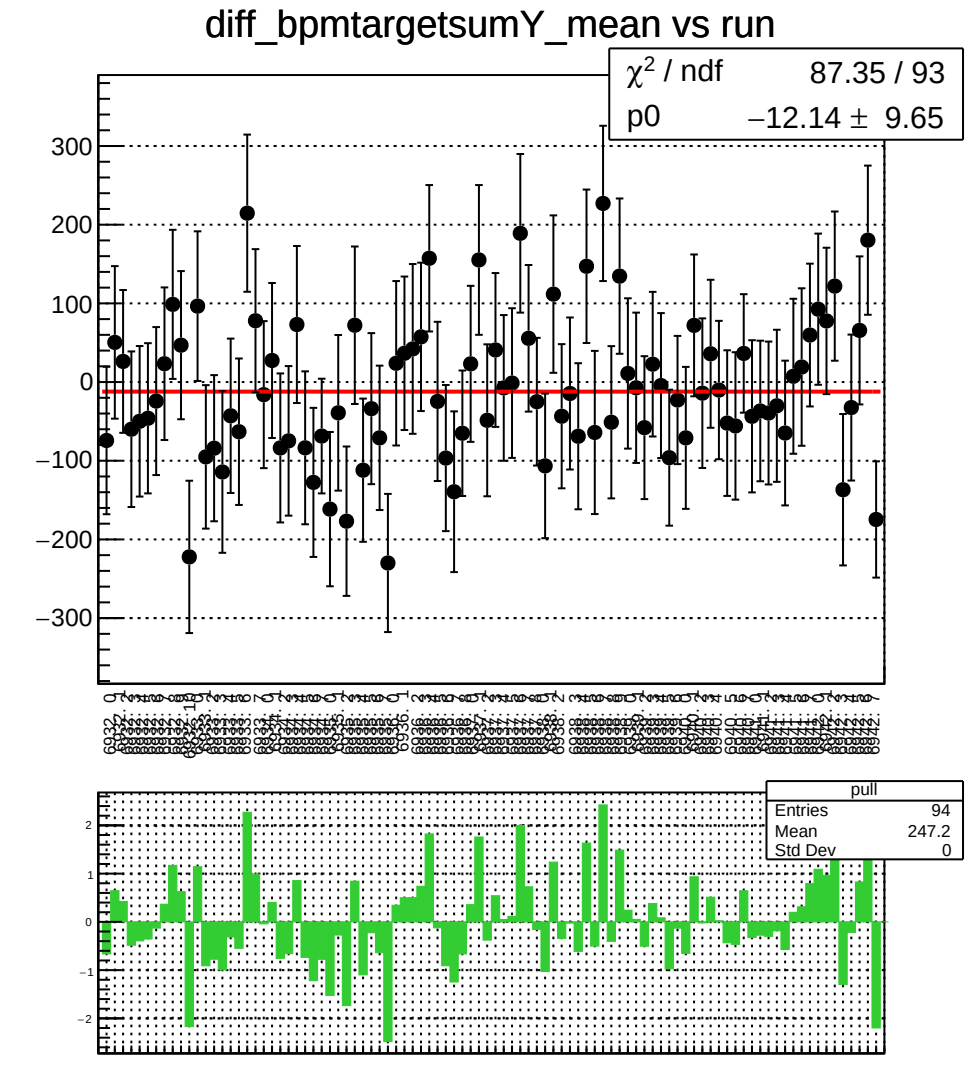

pull1D
Entries 94
Mean −0.002244
Std Dev 0.9218
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

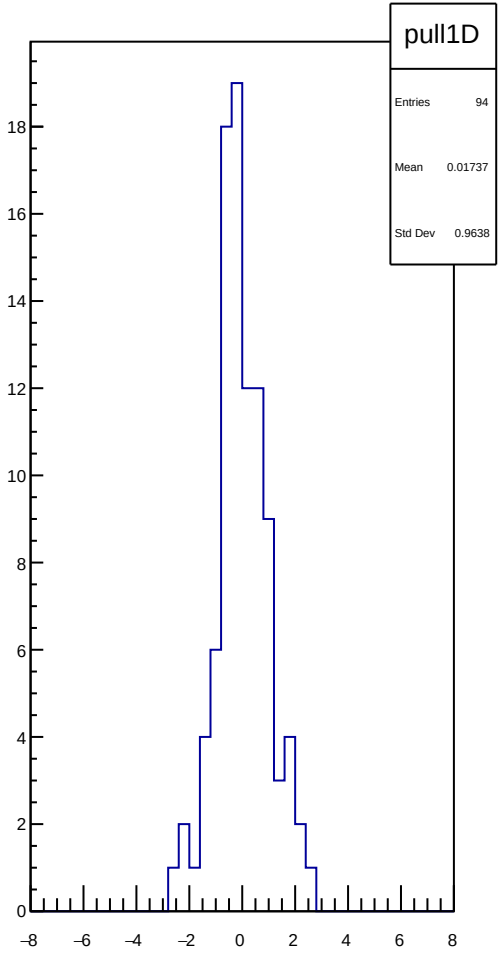

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.394e+04 / 93
p0 1.321e+04 ± 9.987
18000
17000
16000
15000
14000
13000
12000

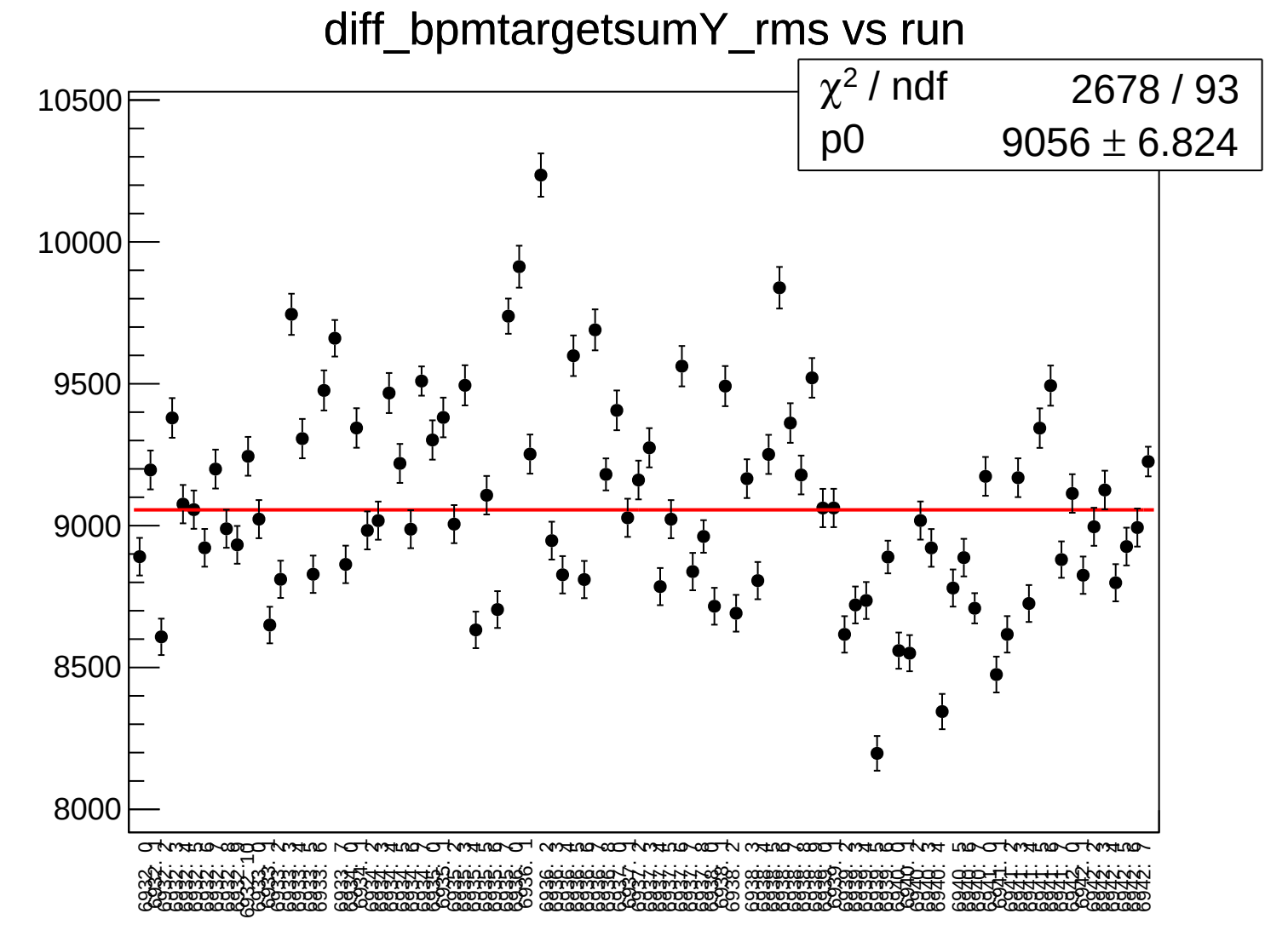

diff_bpmtargetdiffX_mean vs run
χ² / ndf 69.78 / 93
p0 −0.236 ± 0.8951
pull
Entries 94
Mean 422.9
Std Dev 0

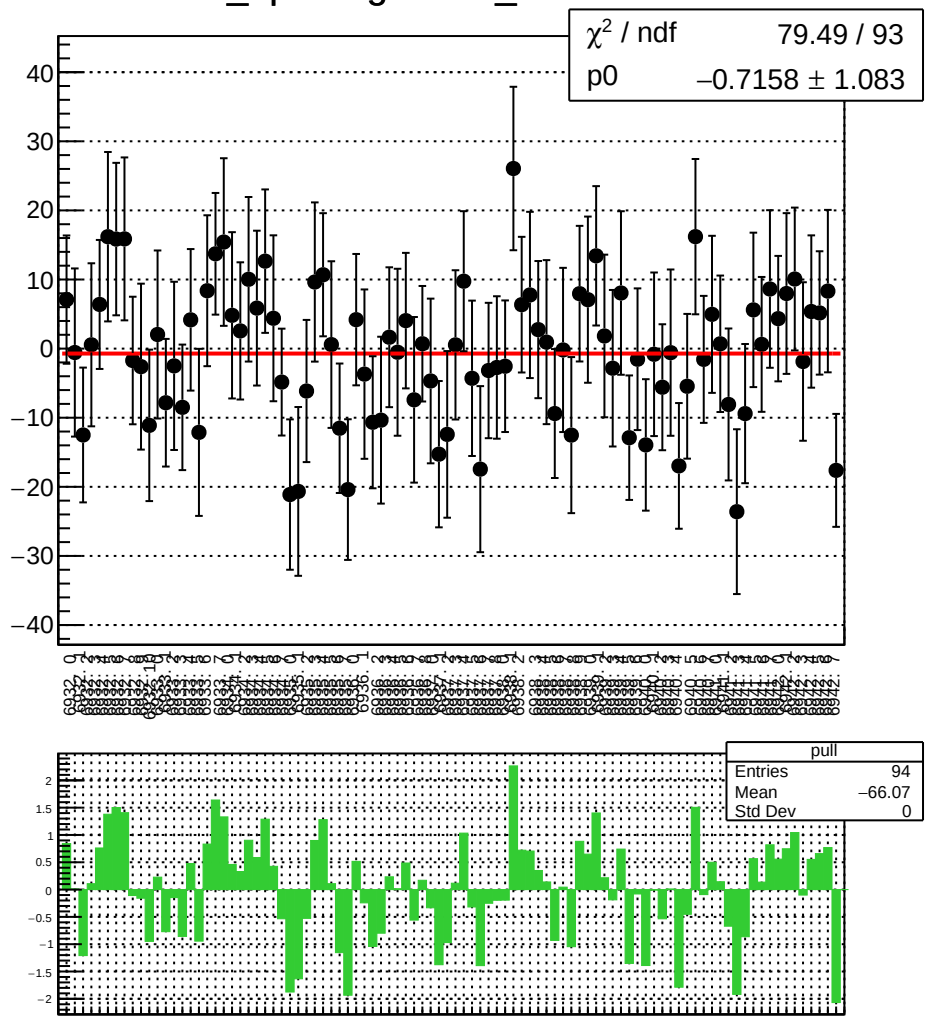

pull1D
Entries 94
Mean −0.006157
Std Dev 0.8616

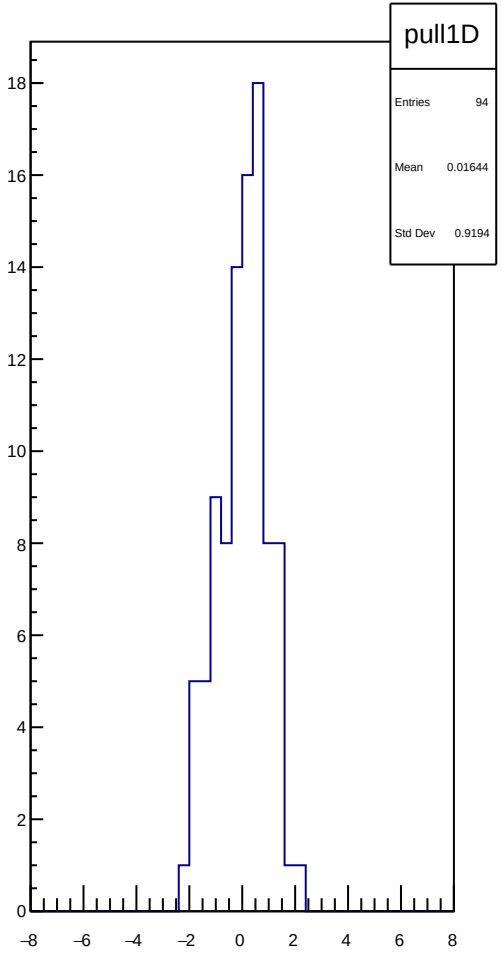

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2837 / 93
p0 839.9 ± 0.6329
980
960
940
920
900
880
860
840
820
800
780

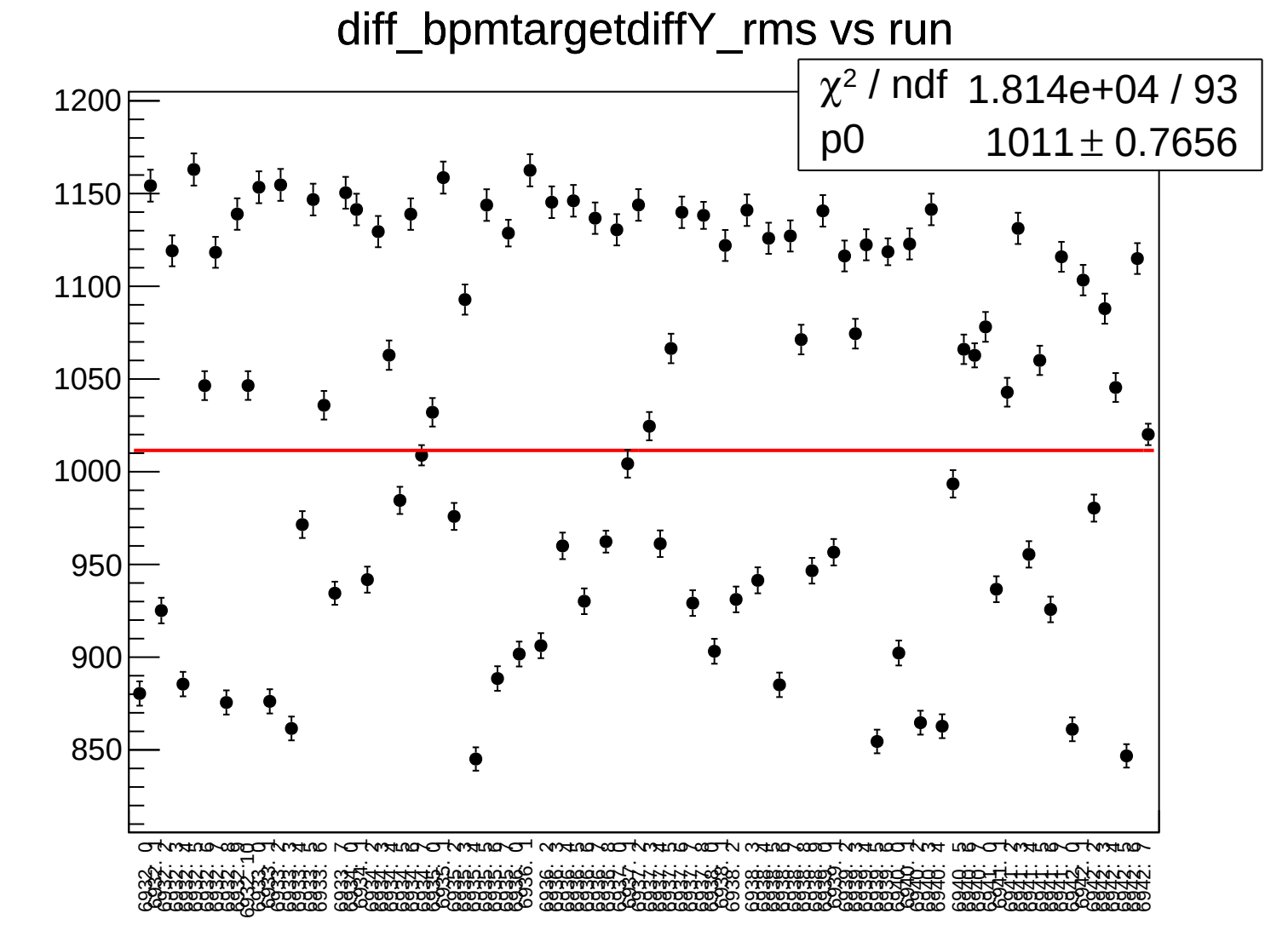

diff_bpmtargetsumY_mean vs run
χ² / ndf 87.35 / 93
p0 −12.14 ± 9.65
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 247.2
Std Dev 0
2
1
0
−1
−2

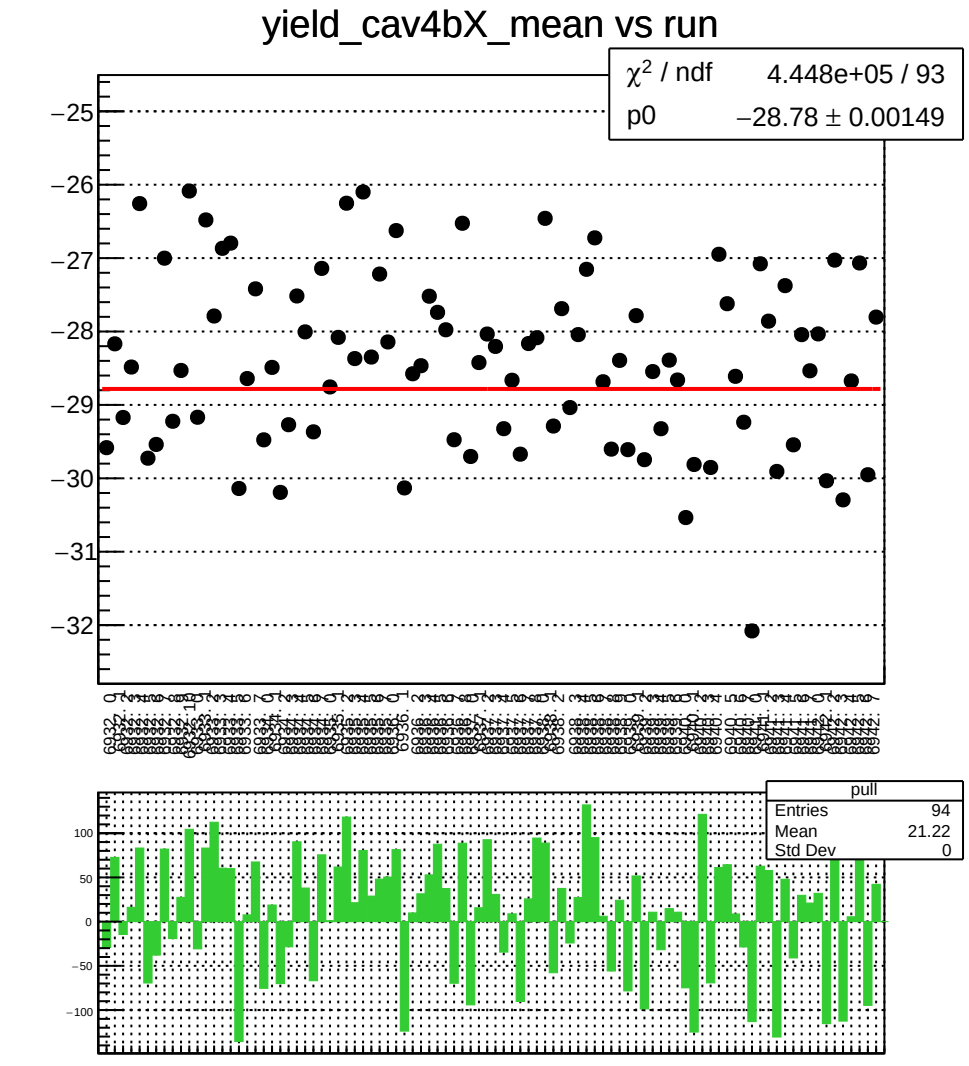

pull1D
Entries 94
Mean 0.01737
Std Dev 0.9638
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

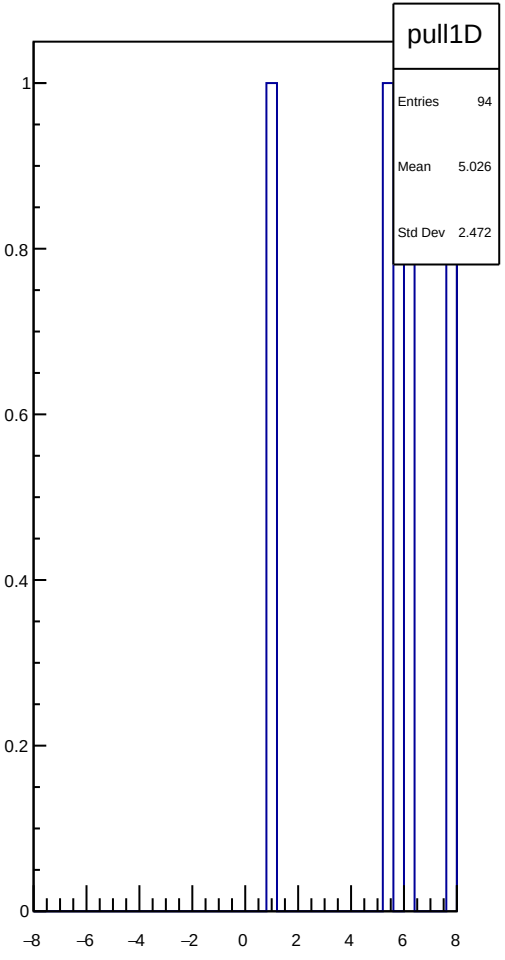

diff_bpmtargetsumY_rms vs run
χ² / ndf 2678 / 93
p0 9056 ± 6.824
10500
10000
9500
9000
8500
8000

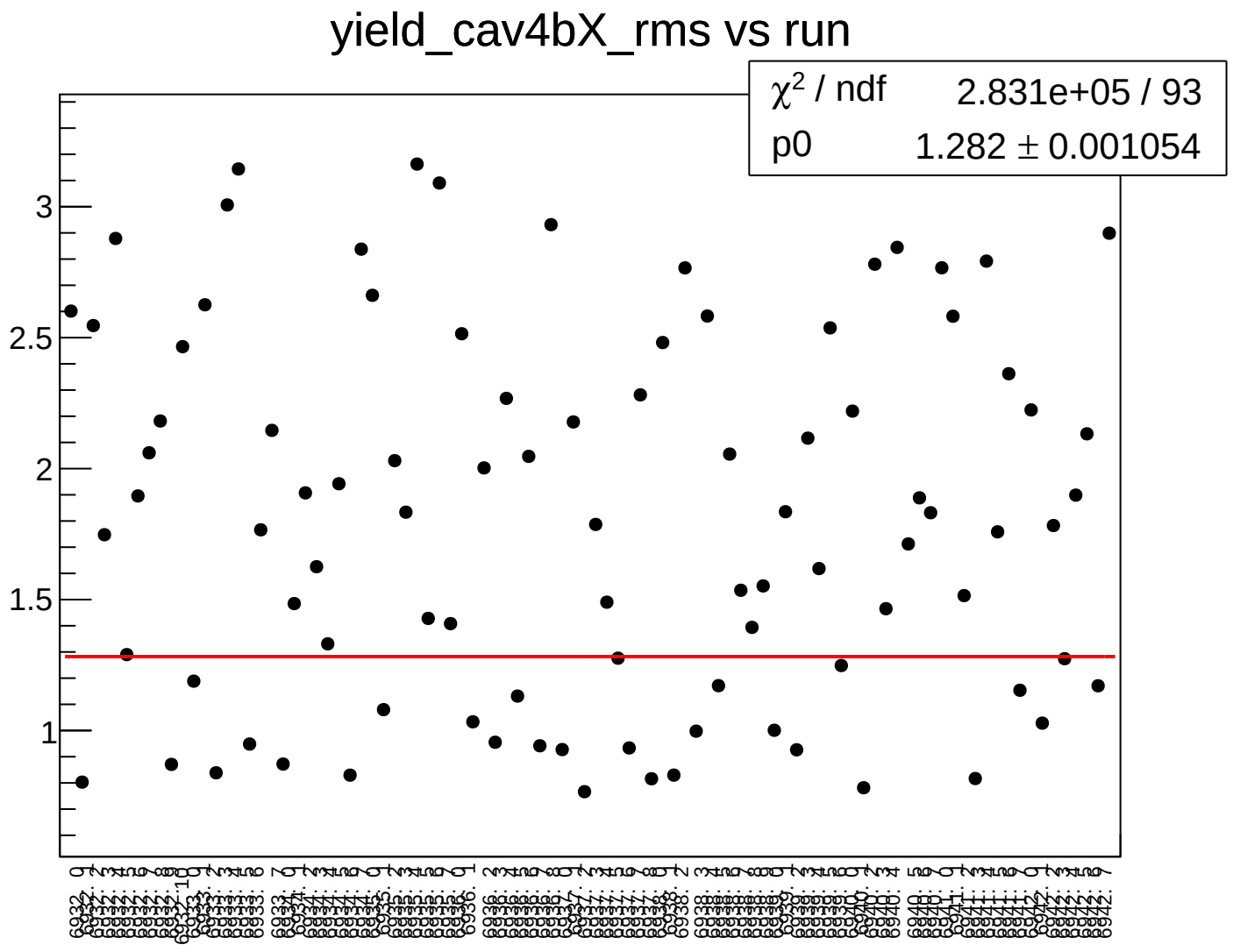

diff_bpmtargetdiffY_mean vs run
χ² / ndf 79.49 / 93
p0 −0.7158 ± 1.083
pull
Entries 94
Mean −66.07
Std Dev 0

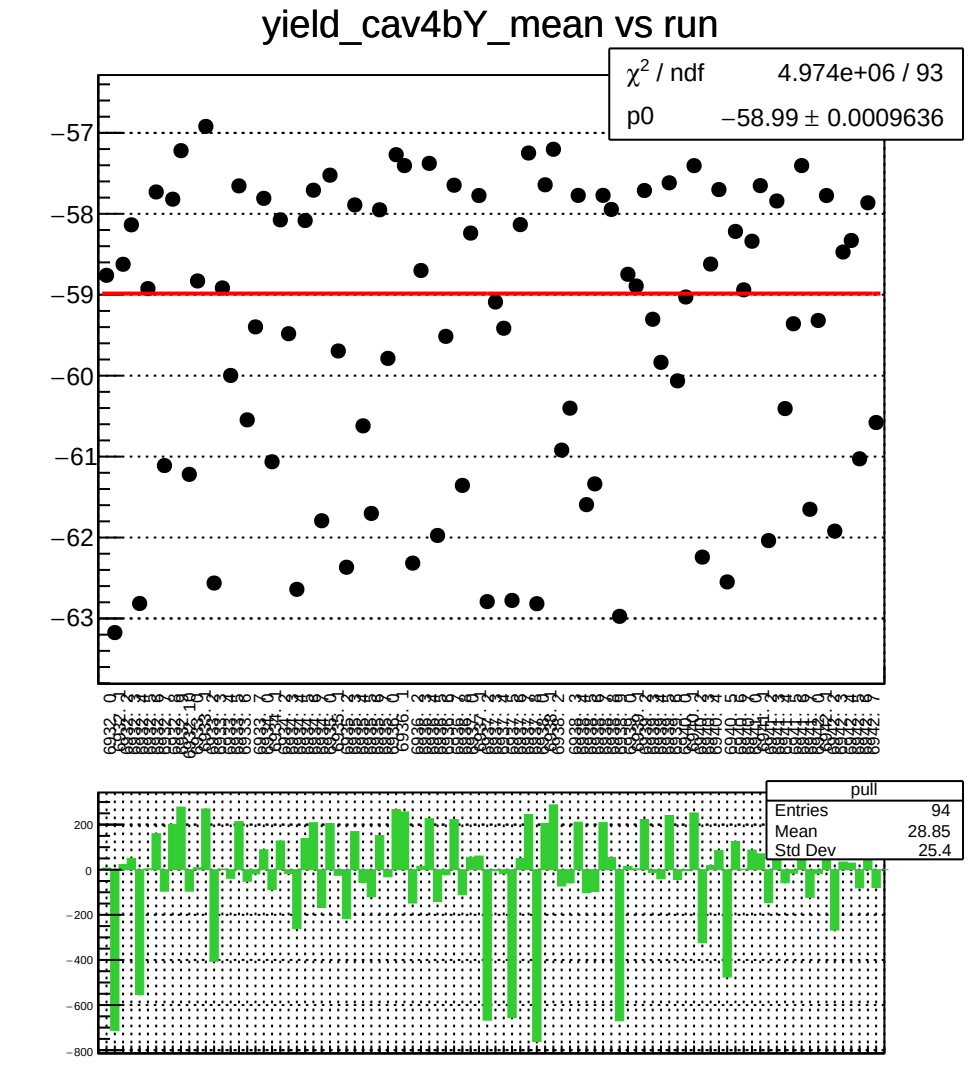

pull1D
Entries 94
Mean 0.01644
Std Dev 0.9194

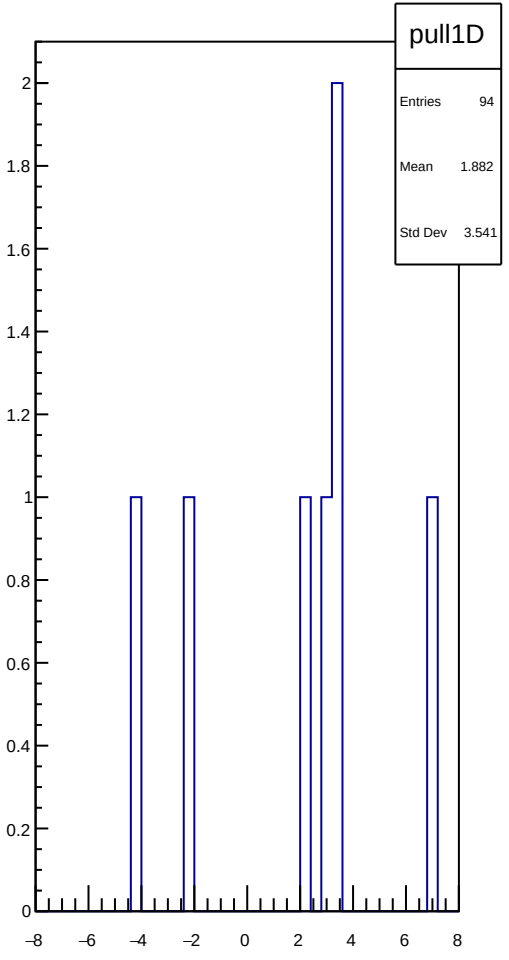

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.814e+04 / 93
p0 1011 ± 0.7656
1200
1150
1100
1050
1000
950
900
850

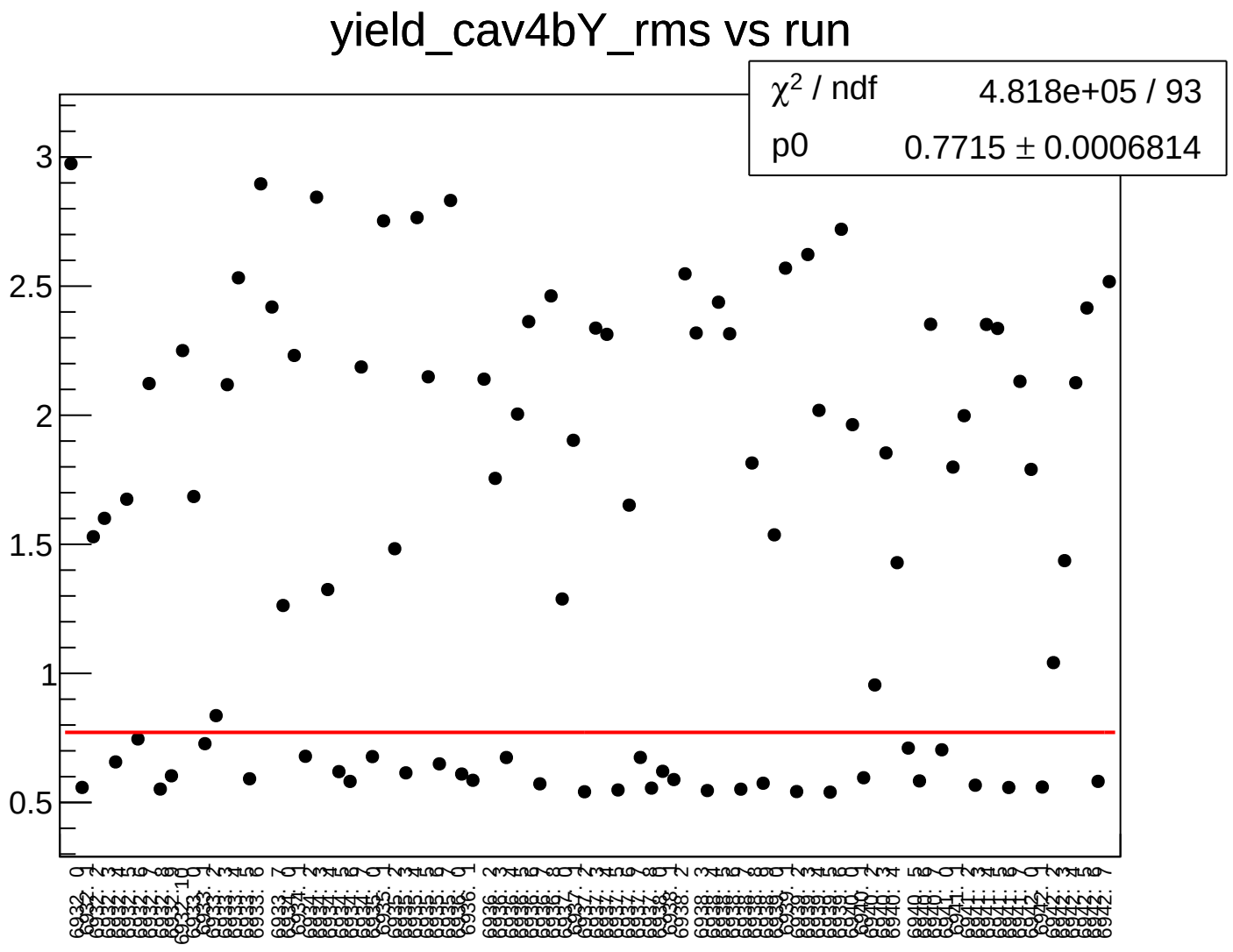

yield_cav4bX_mean vs run
χ² / ndf 4.448e+05 / 93
p0 −28.78 ± 0.00149
−25
−26
−27
−28
−29
−30
−31
−32
pull
Entries 94
Mean 21.22
Std Dev 0
100
50
0
−50
−100

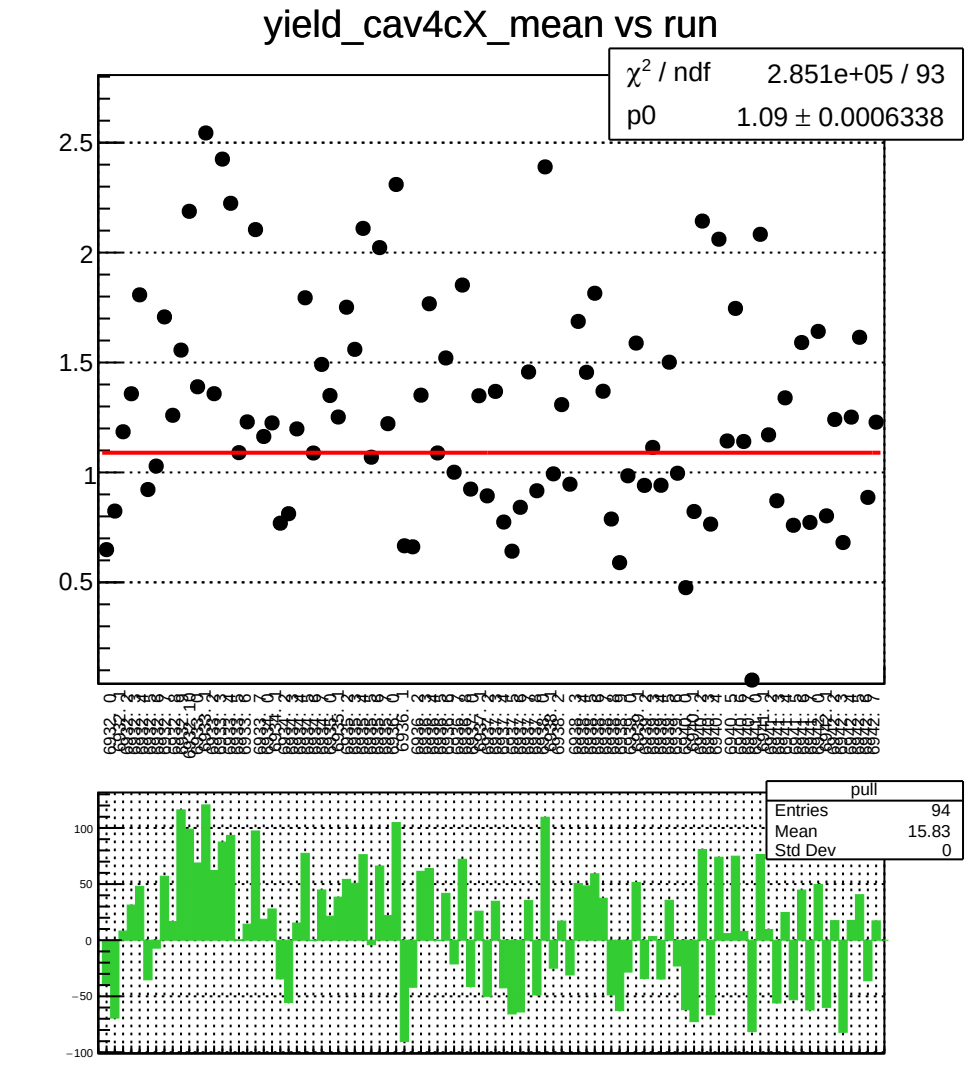

pull1D
Entries 94
Mean 5.026
Std Dev 2.472
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

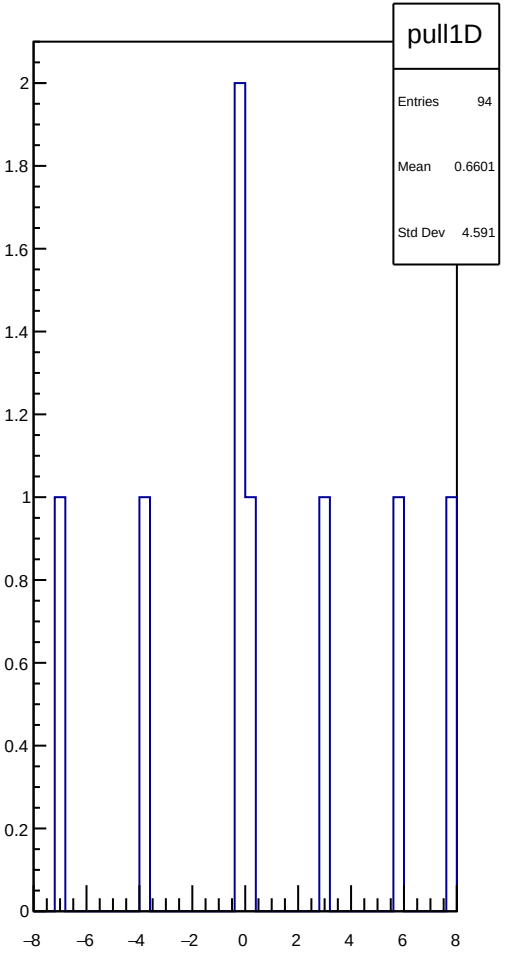

yield_cav4bX_rms vs run
χ^2 / ndf 2.831e+05 / 93
p0 1.282 ± 0.001054
3
2.5
2
1.5
1

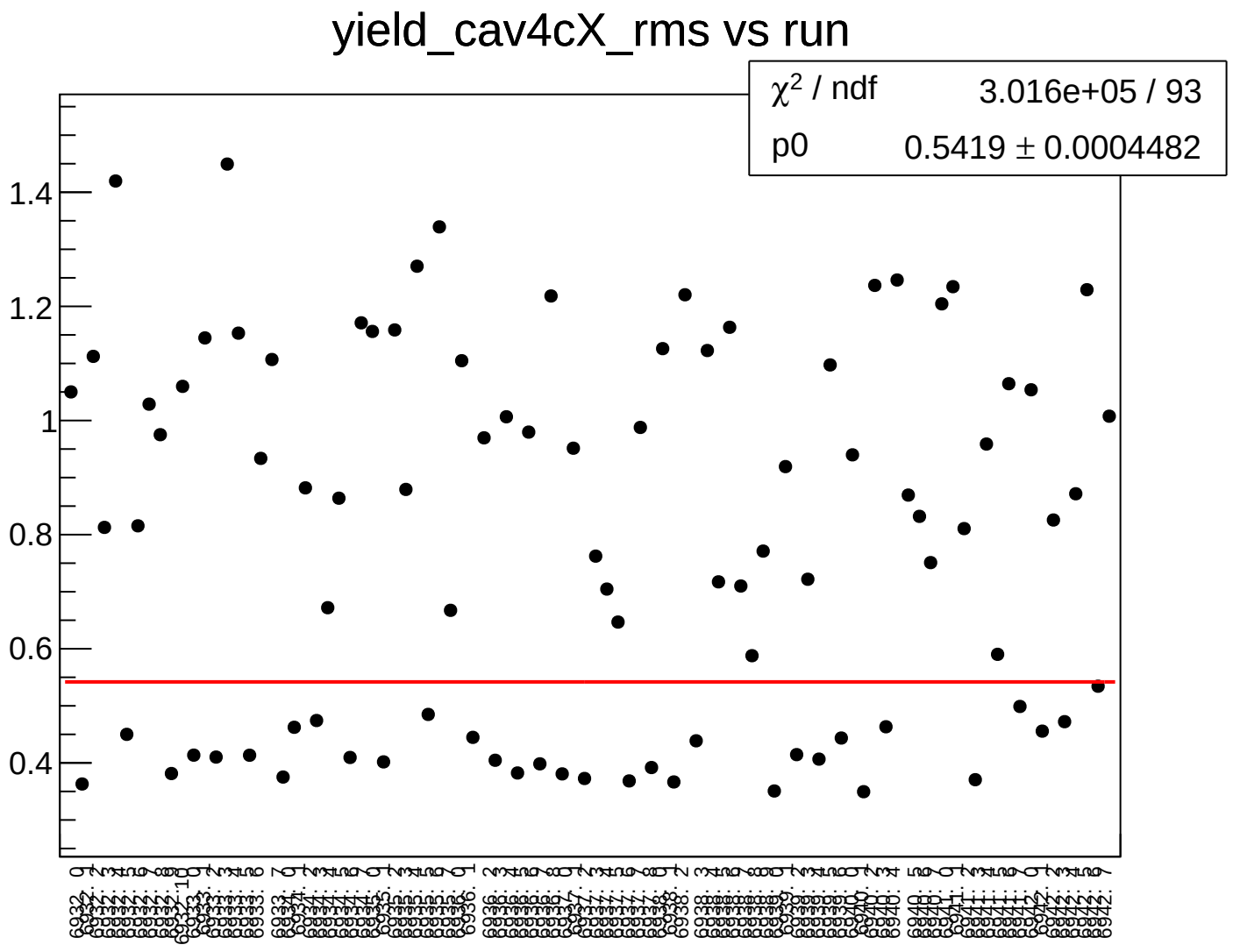

yield_cav4bY_mean vs run
χ² / ndf 4.974e+06 / 93
p0 −58.99 ± 0.0009636
−57
−58
−59
−60
−61
−62
−63
pull
Entries 94
Mean 28.85
Std Dev 25.4
200
0
−200
−400
−600
−800

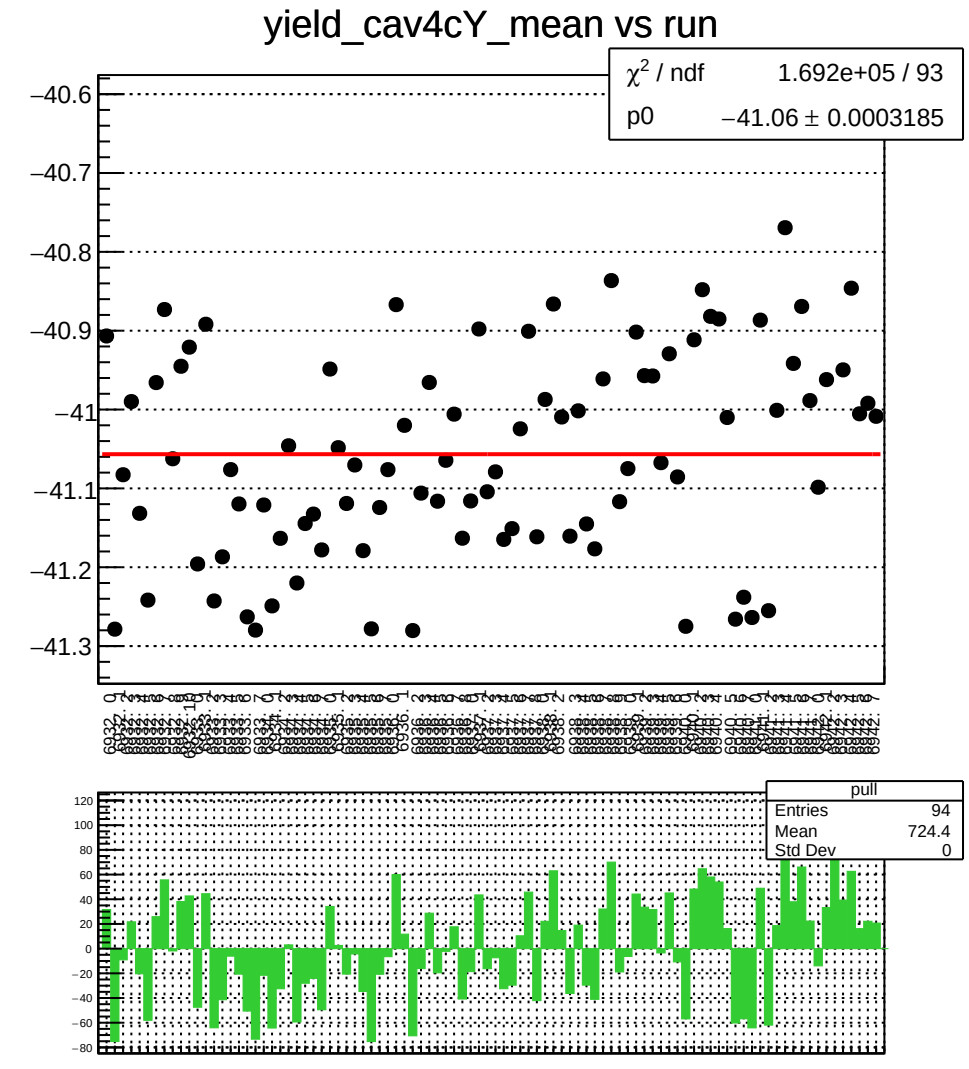

pull1D
Entries 94
Mean 1.882
Std Dev 3.541
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

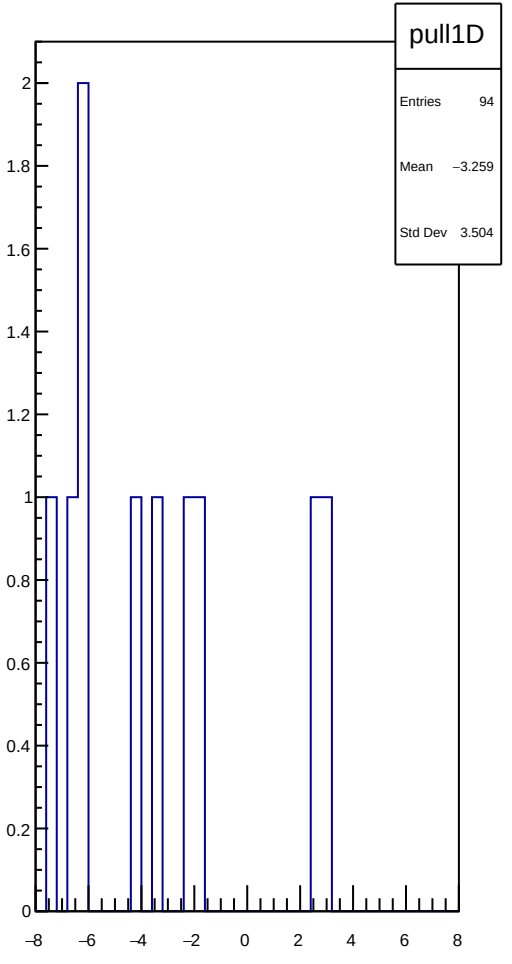

yield_cav4bY_rms vs run
χ² / ndf 4.818e+05 / 93
p0 0.7715 ± 0.0006814
3
2.5
2
1.5
1
0.5

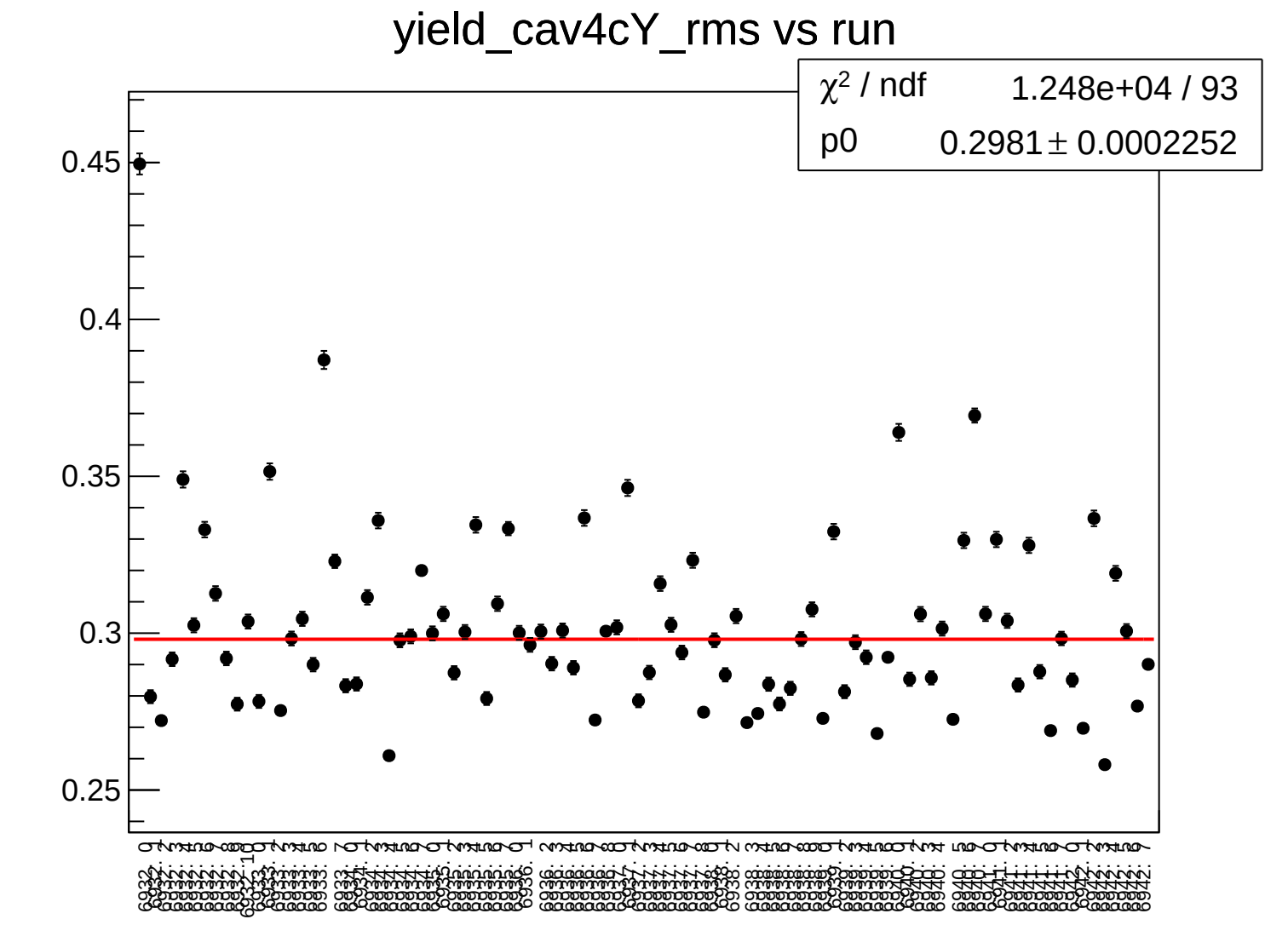

yield_cav4cX_mean vs run
χ² / ndf 2.851e+05 / 93
p0 1.09 ± 0.0006338
pull
Entries 94
Mean 15.83
Std Dev 0

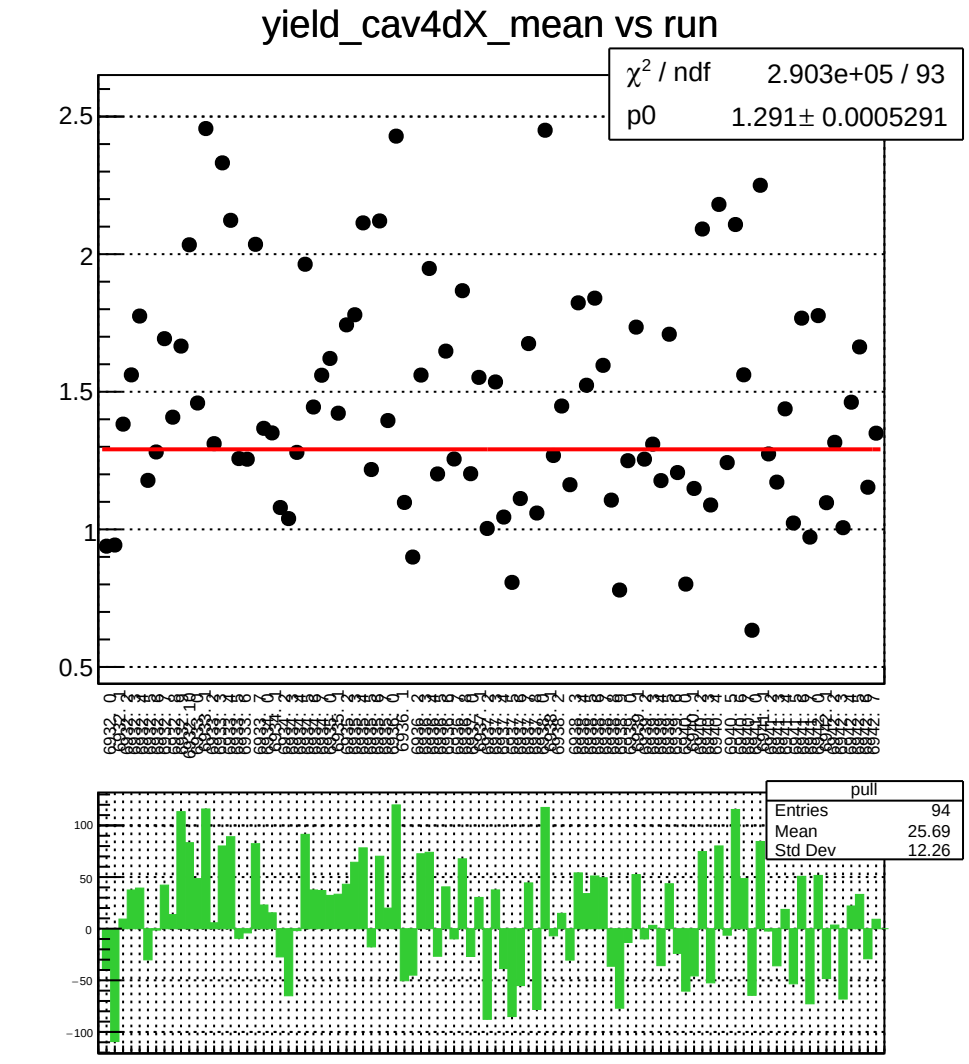

pull1D
Entries 94
Mean 0.6601
Std Dev 4.591

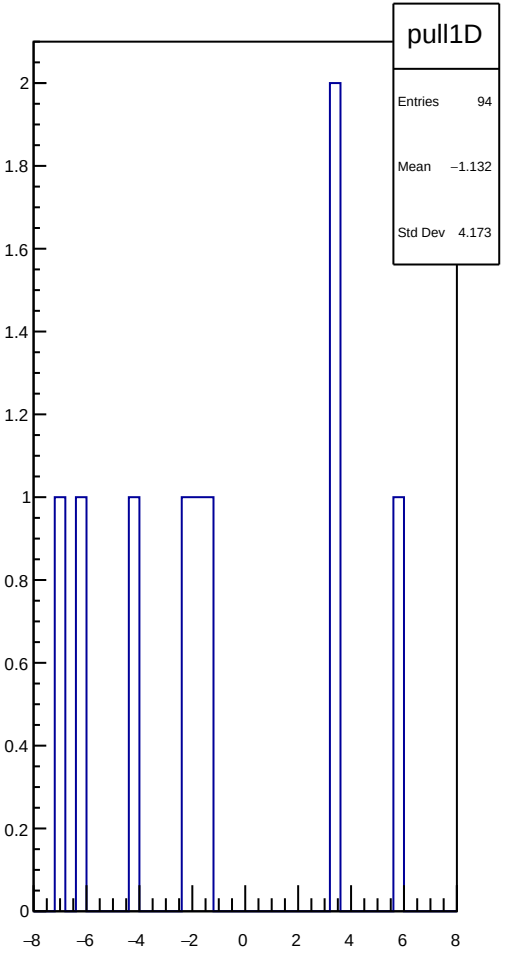

yield_cav4cX_rms vs run
χ² / ndf 3.016e+05 / 93
p0 0.5419 ± 0.0004482
1.4
1.2
1
0.8
0.6
0.4

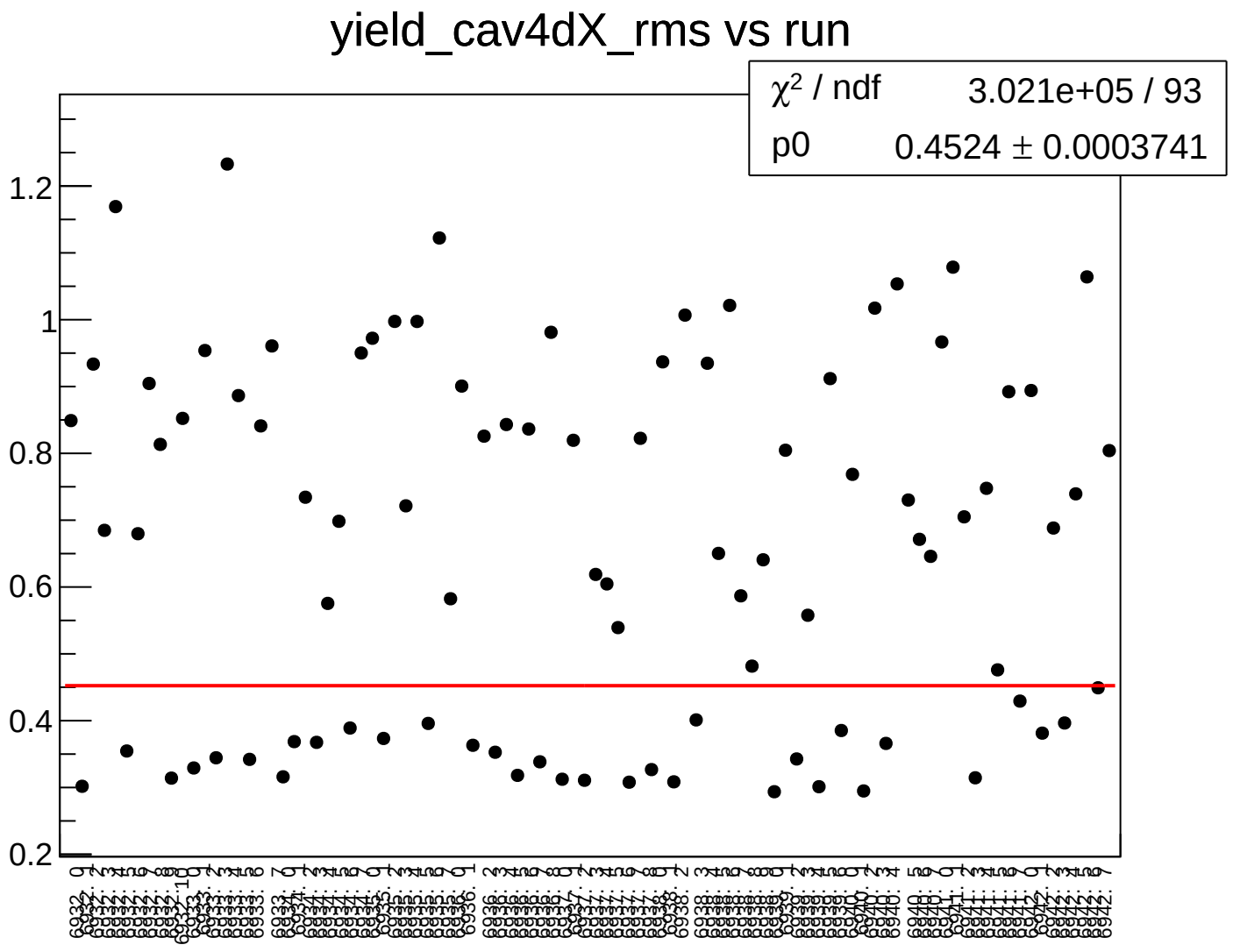

yield_cav4cY_mean vs run
χ² / ndf 1.692e+05 / 93
p0 −41.06 ± 0.0003185
−40.6
−40.7
−40.8
−40.9
−41
−41.1
−41.2
−41.3
pull
Entries 94
Mean 724.4
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

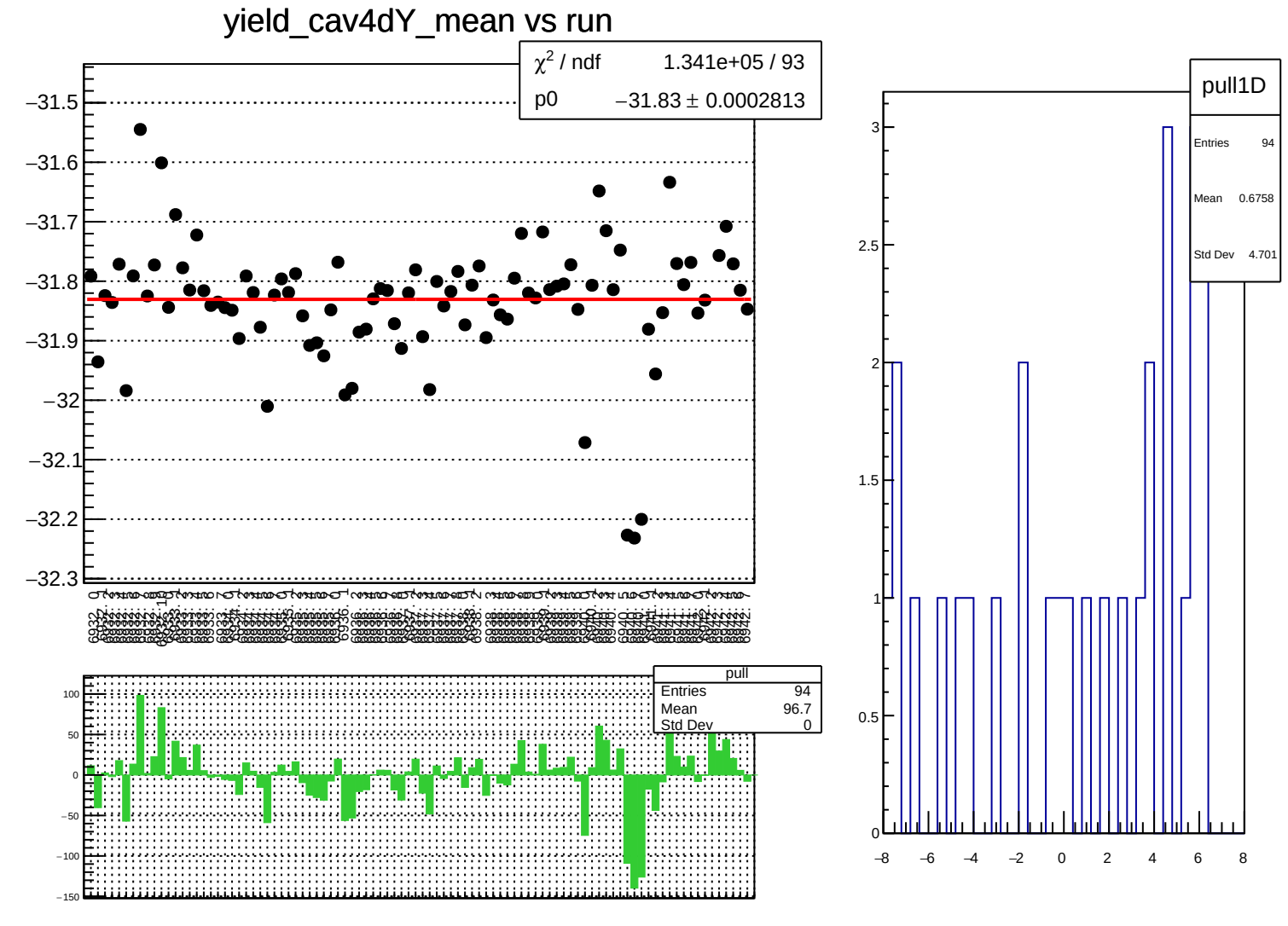

pull1D
Entries 94
Mean −3.259
Std Dev 3.504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

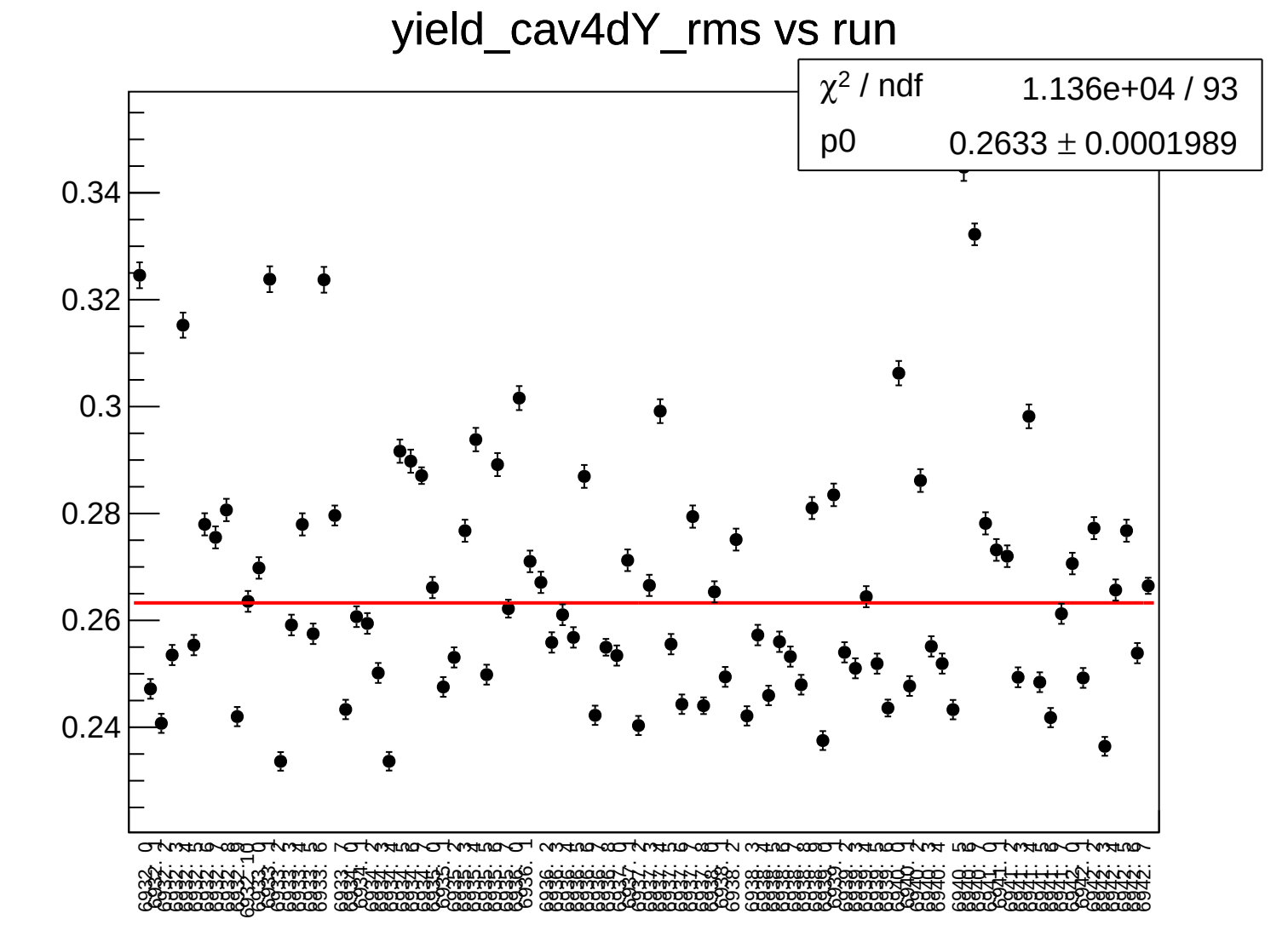

yield_cav4cY_rms vs run
χ² / ndf 1.248e+04 / 93
p0 0.2981 ± 0.0002252
0.45
0.4
0.35
0.3
0.25

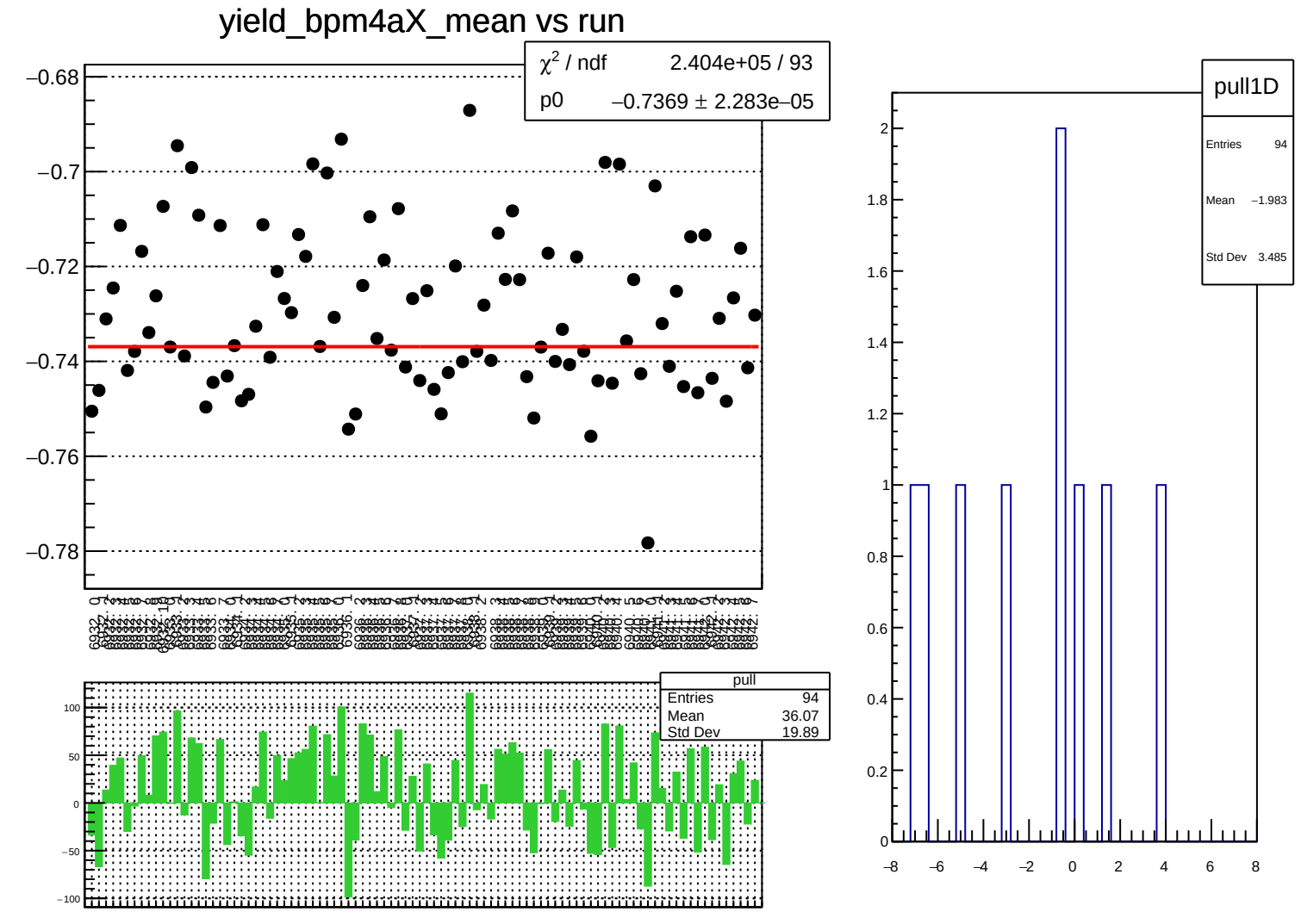

yield_cav4dX_mean vs run
χ² / ndf 2.903e+05 / 93
p0 1.291± 0.0005291
pull
Entries 94
Mean 25.69
Std Dev 12.26

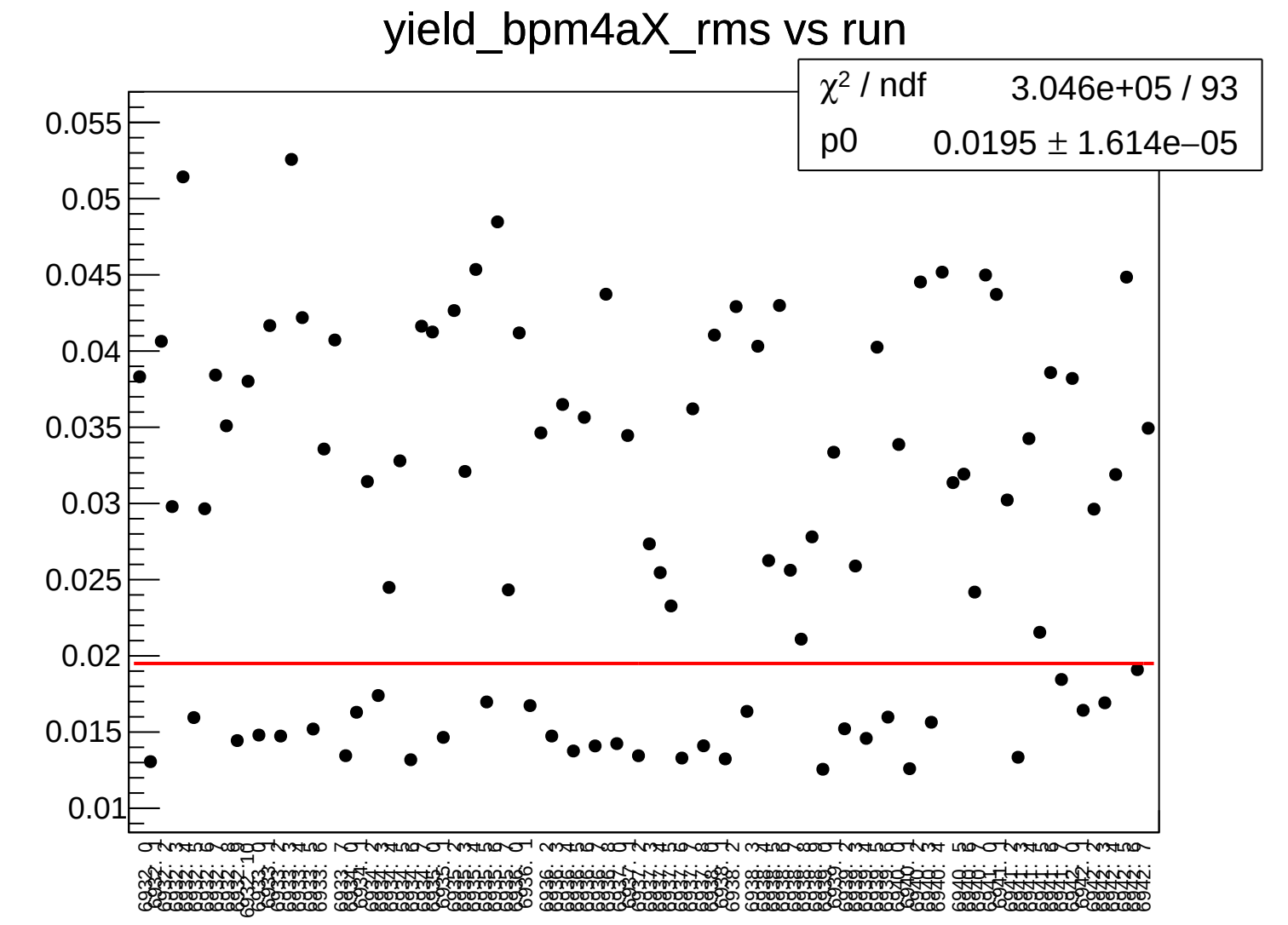

pull1D
Entries 94
Mean −1.132
Std Dev 4.173

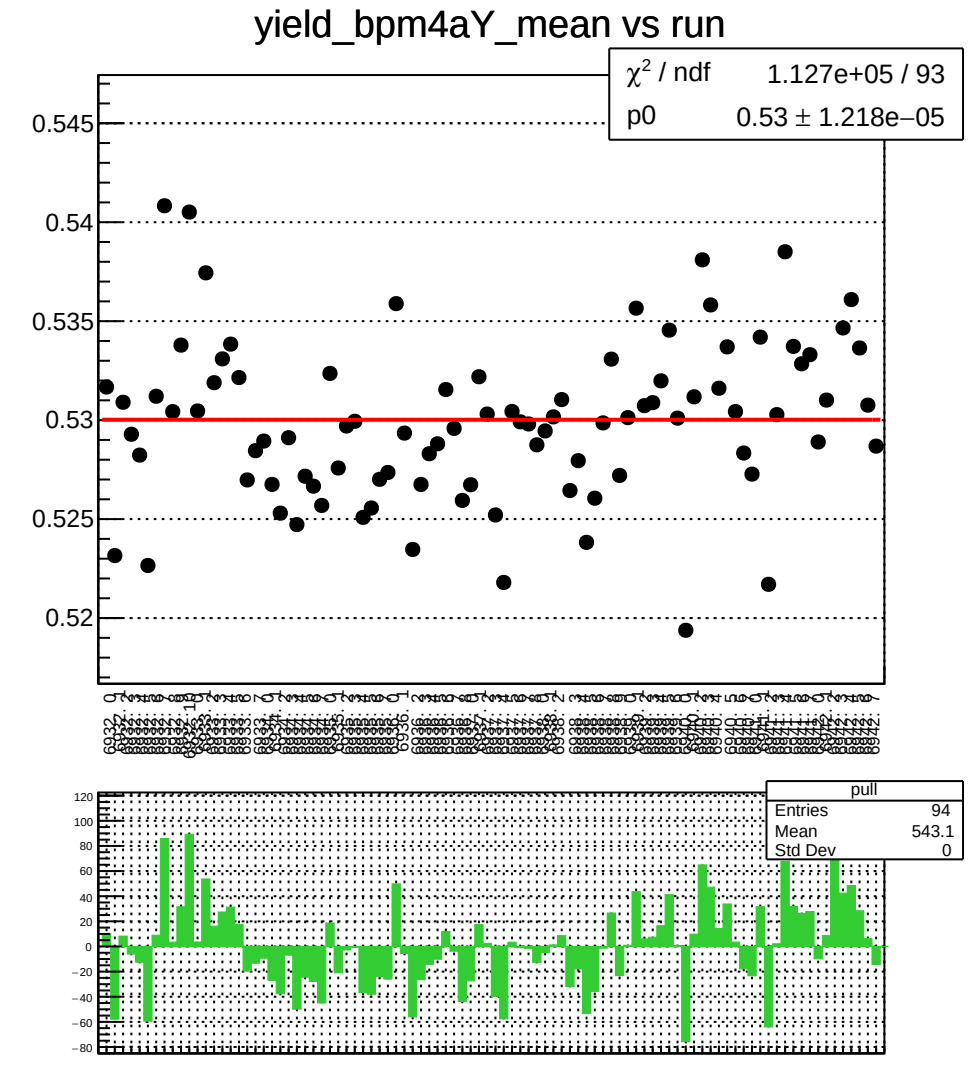

yield_cav4dX_rms vs run
χ² / ndf 3.021e+05 / 93
p0 0.4524 ± 0.0003741
1.2
1
0.8
0.6
0.4
0.2

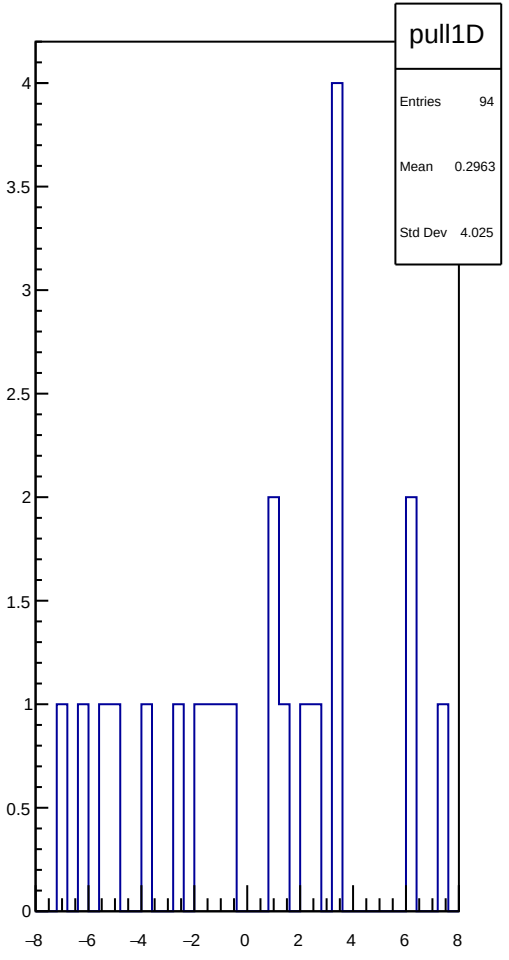

yield_cav4dY_mean vs run
χ² / ndf 1.341e+05 / 93
p0 −31.83 ± 0.0002813
−31.5
−31.6
−31.7
−31.8
−31.9
−32
−32.1
−32.2
−32.3
pull
Entries 94
Mean 96.7
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean 0.6758
Std Dev 4.701
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ² / ndf 1.136e+04 / 93
p0 0.2633 ± 0.0001989
0.34
0.32
0.3
0.28
0.26
0.24

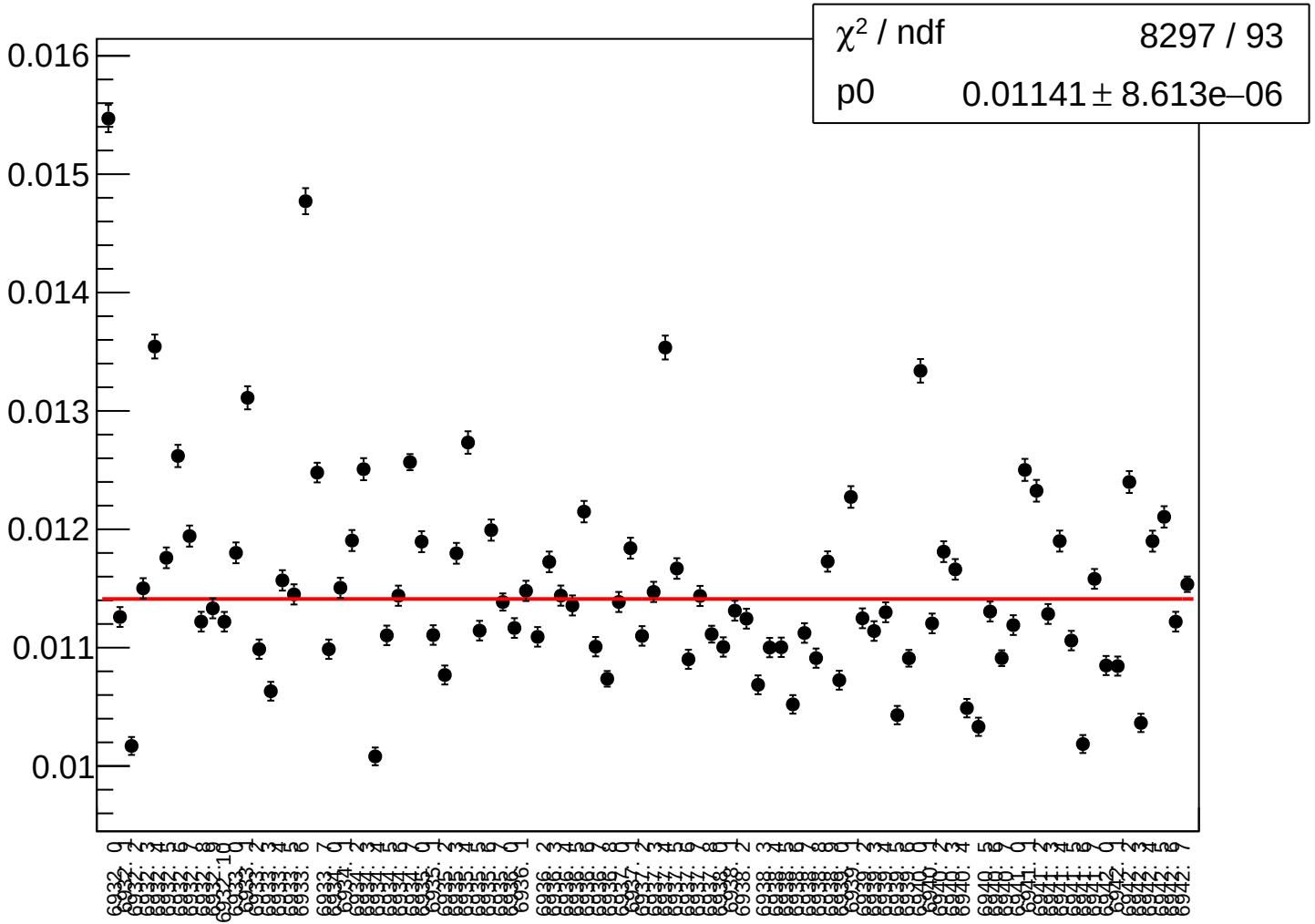

yield_bpm4aX_mean vs run
χ² / ndf 2.404e+05 / 93
p0 −0.7369 ± 2.283e−05
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 94
Mean 36.07
Std Dev 19.89
100
50
0
−50
−100
pull1D
Entries 94
Mean −1.983
Std Dev 3.485
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

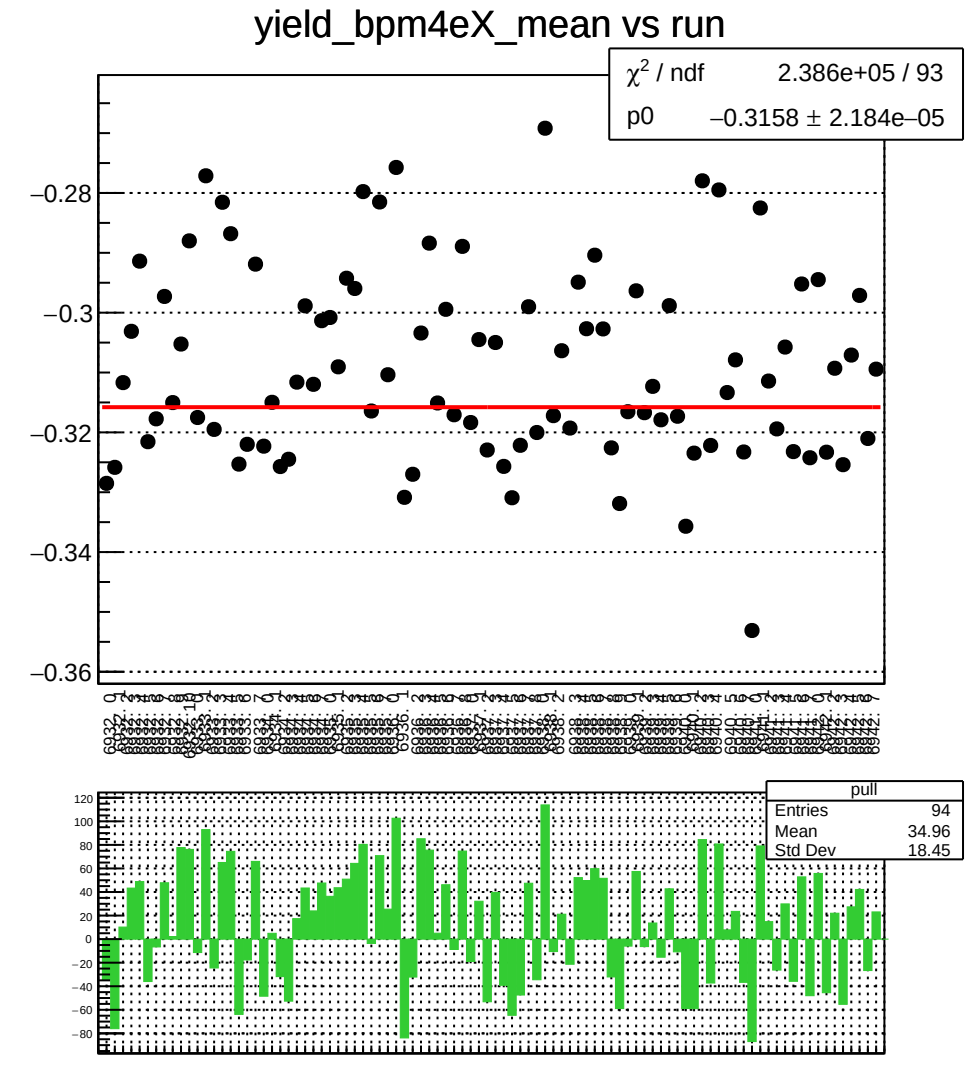

yield_bpm4aX_rms vs run
χ² / ndf 3.046e+05 / 93
p0 0.0195 ± 1.614e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

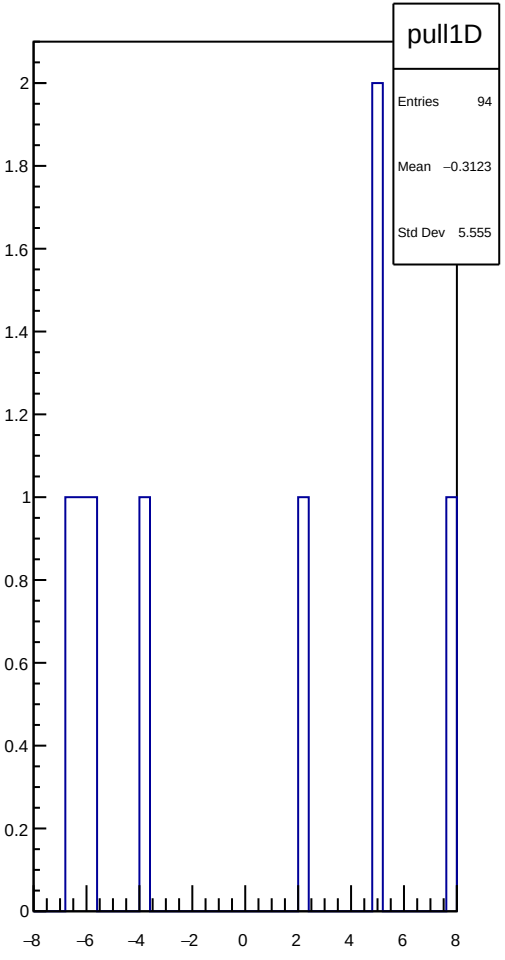

yield_bpm4aY_mean vs run
χ² / ndf 1.127e+05 / 93
p0 0.53 ± 1.218e−05
0.545
0.54
0.535
0.53
0.525
0.52
pull
Entries 94
Mean 543.1
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

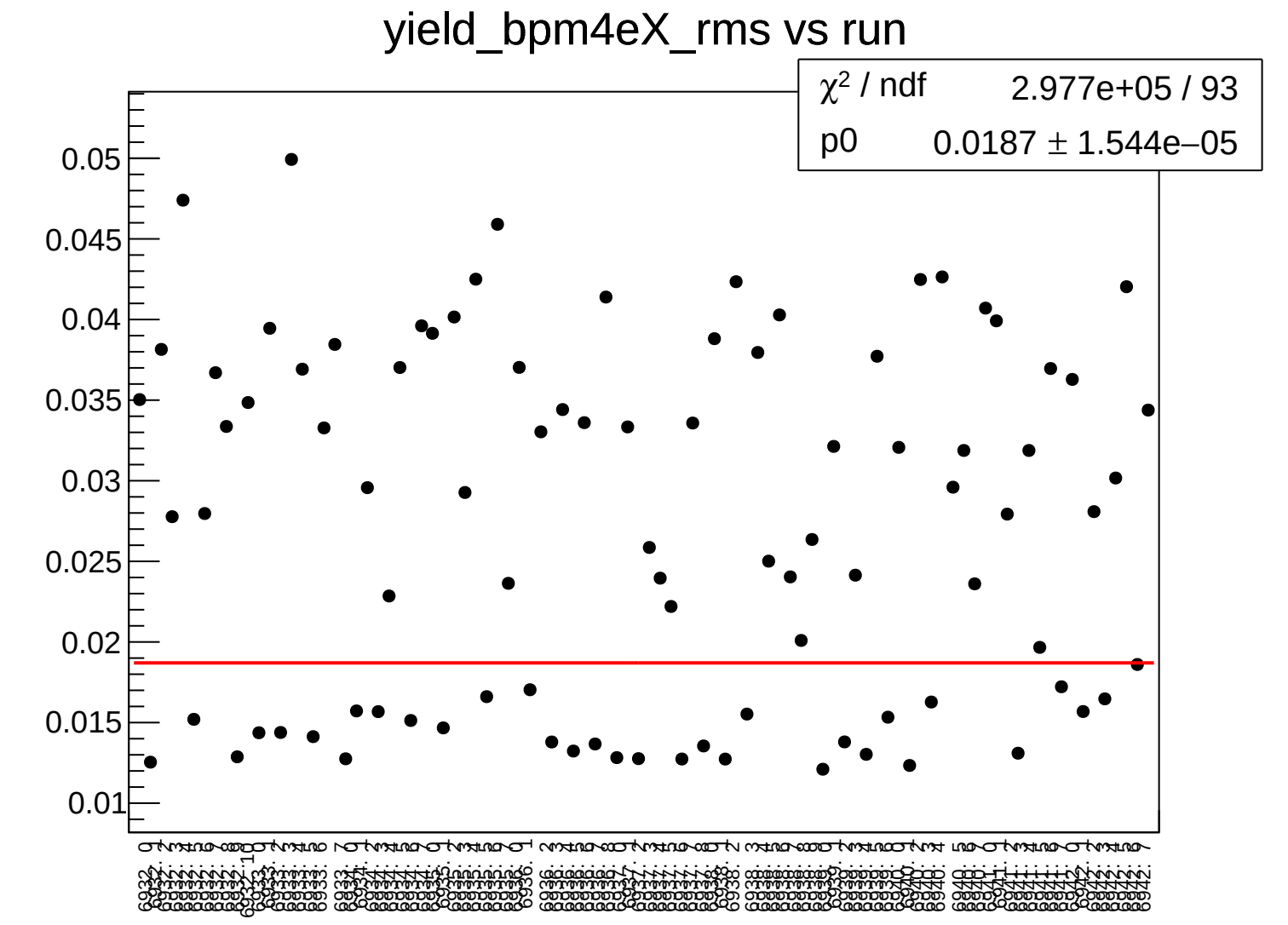

pull1D
Entries 94
Mean 0.2963
Std Dev 4.025
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

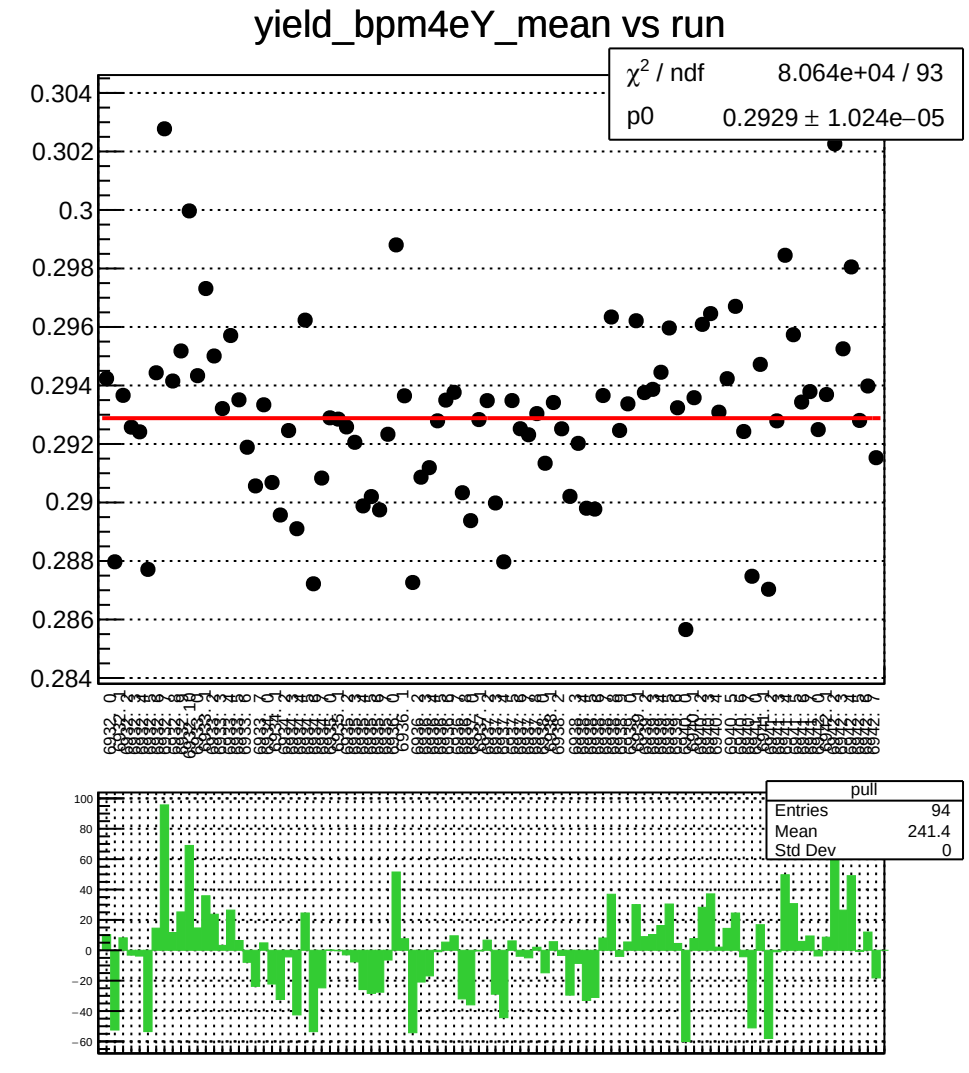
yield_bpm4aY_rms vs run

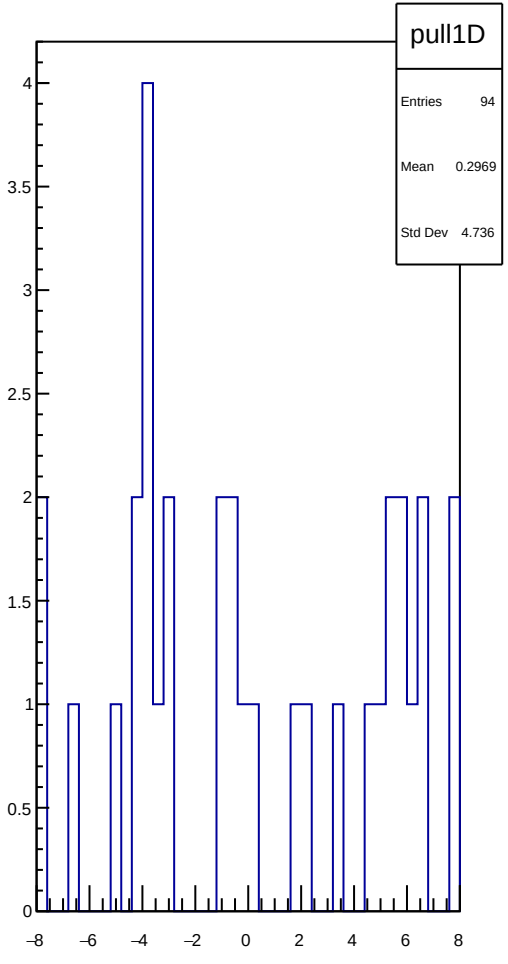


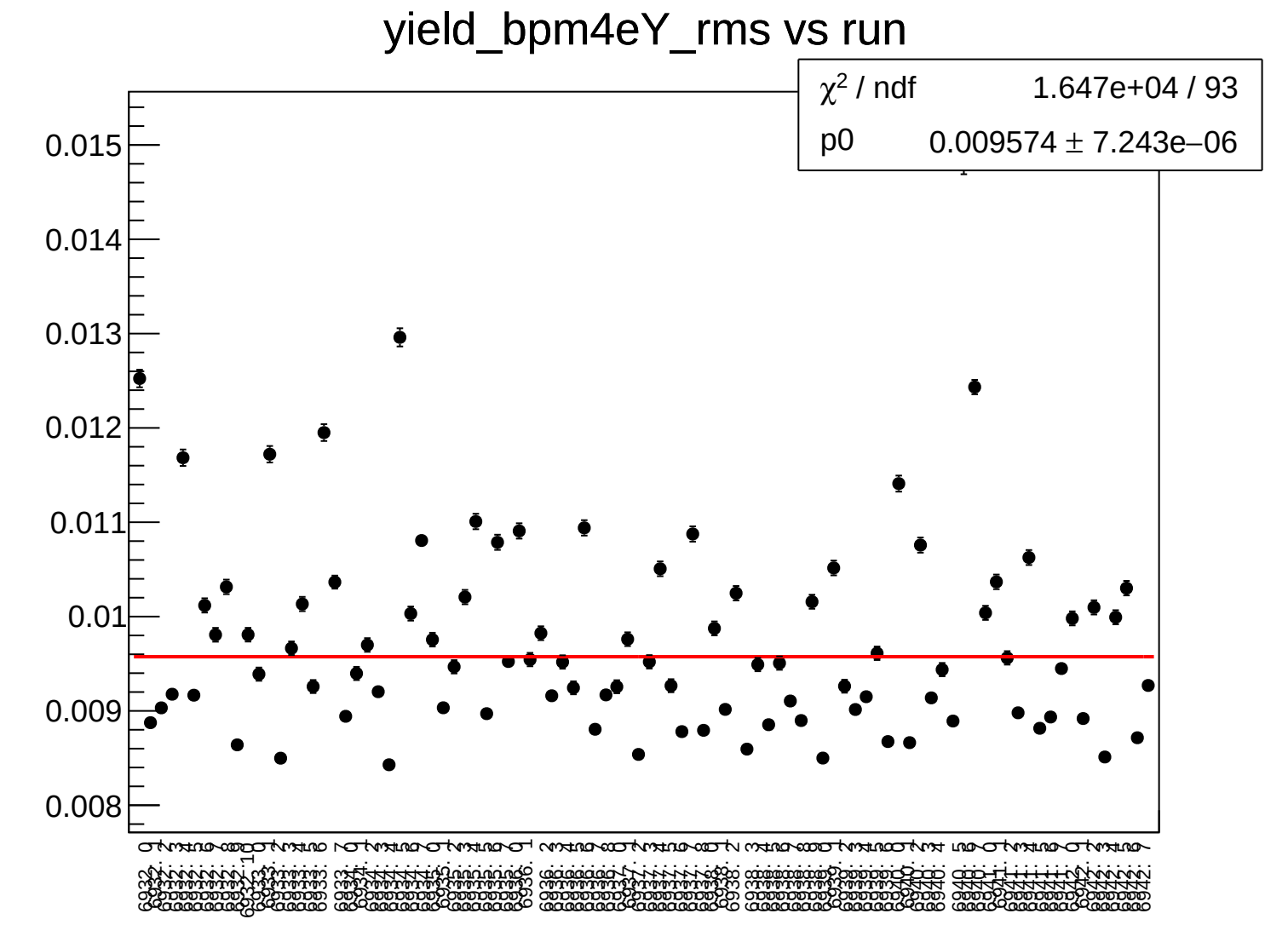

yield_bpm4eX_mean vs run
χ² / ndf 2.386e+05 / 93
p0 −0.3158 ± 2.184e−05
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 94
Mean 34.96
Std Dev 18.45
120
100
80
60
40
20
0
−20
−40
−60
−80

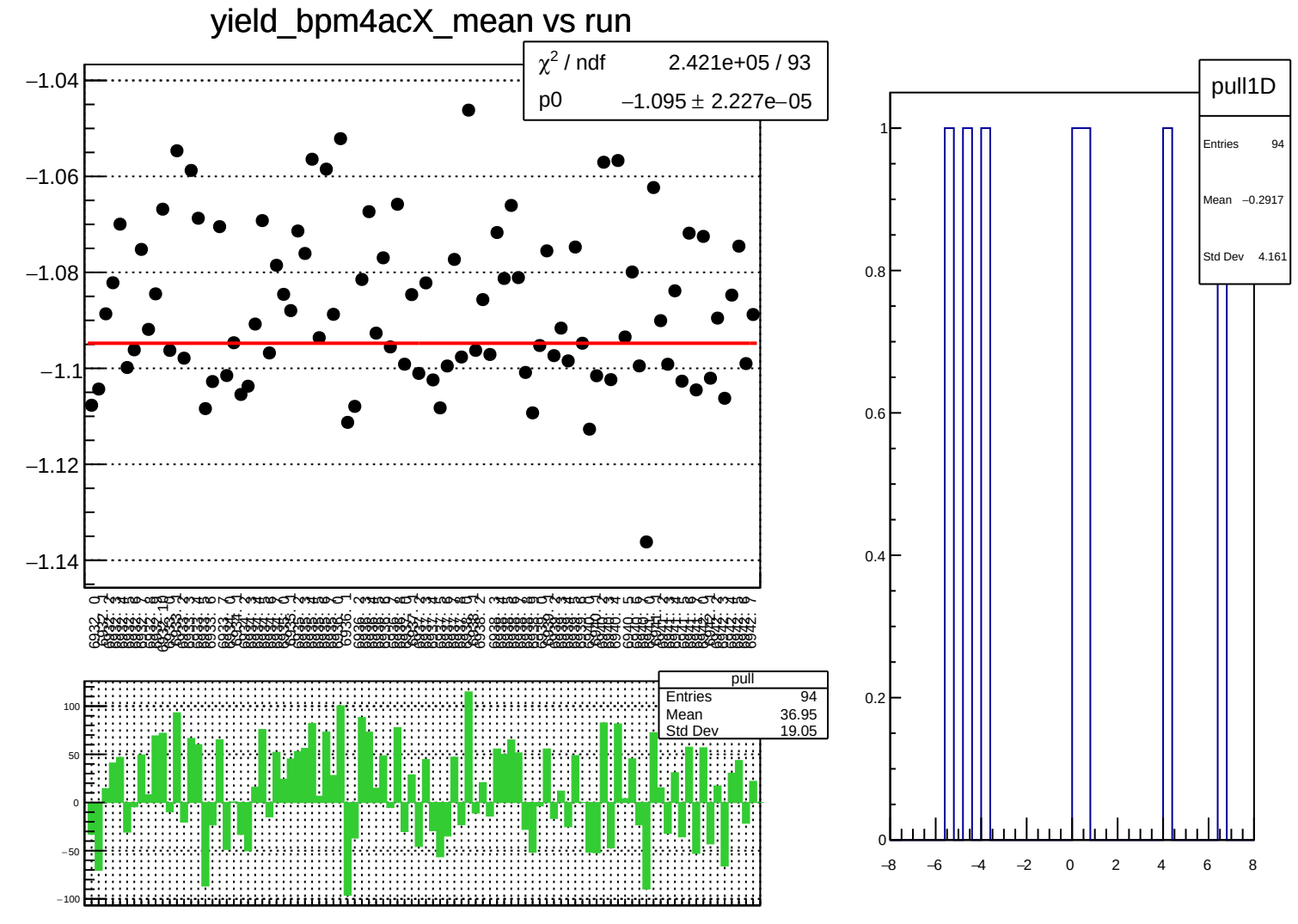

pull1D
Entries 94
Mean −0.3123
Std Dev 5.555
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

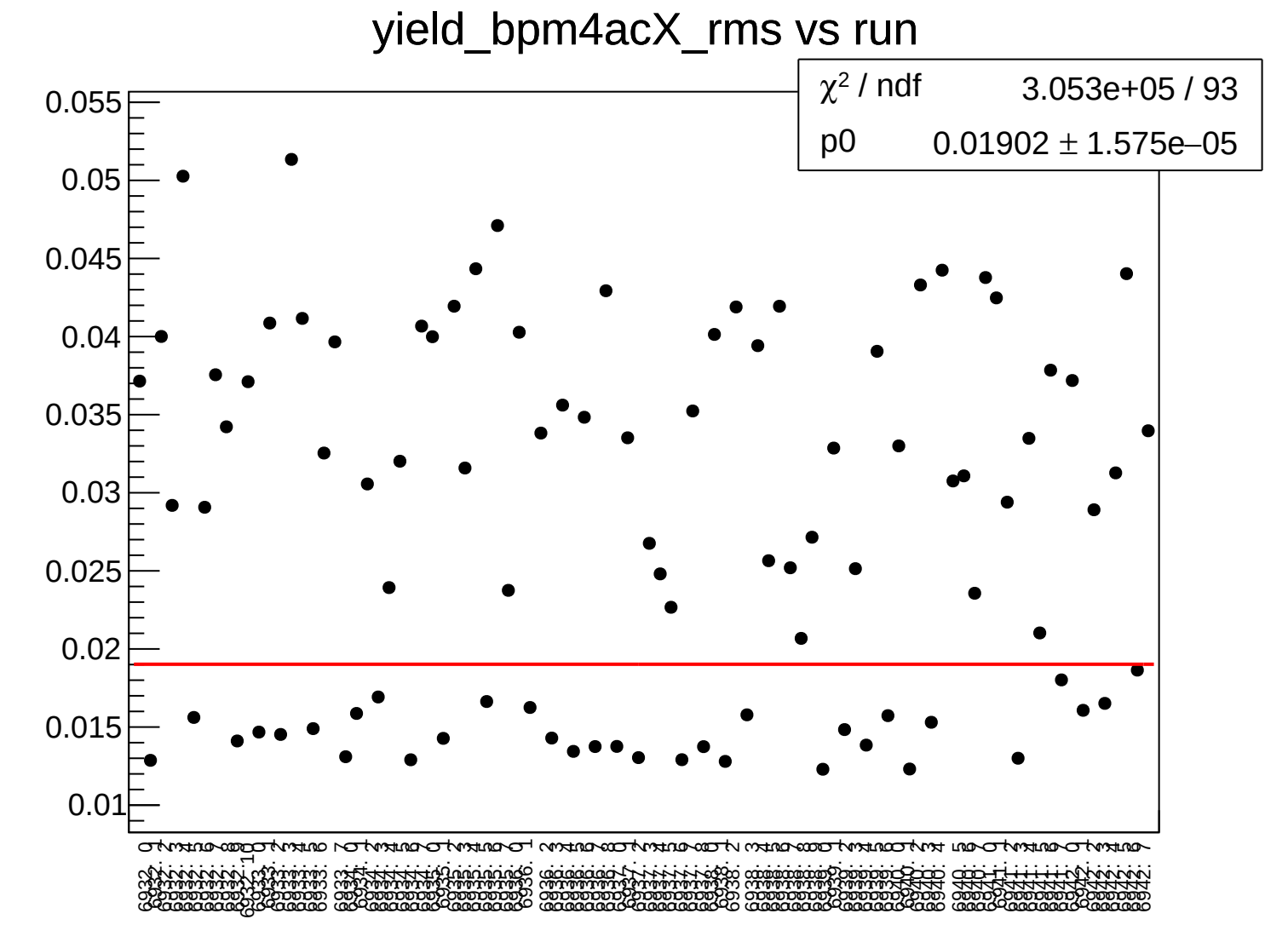

yield_bpm4eX_rms vs run
χ² / ndf 2.977e+05 / 93
p0 0.0187 ± 1.544e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

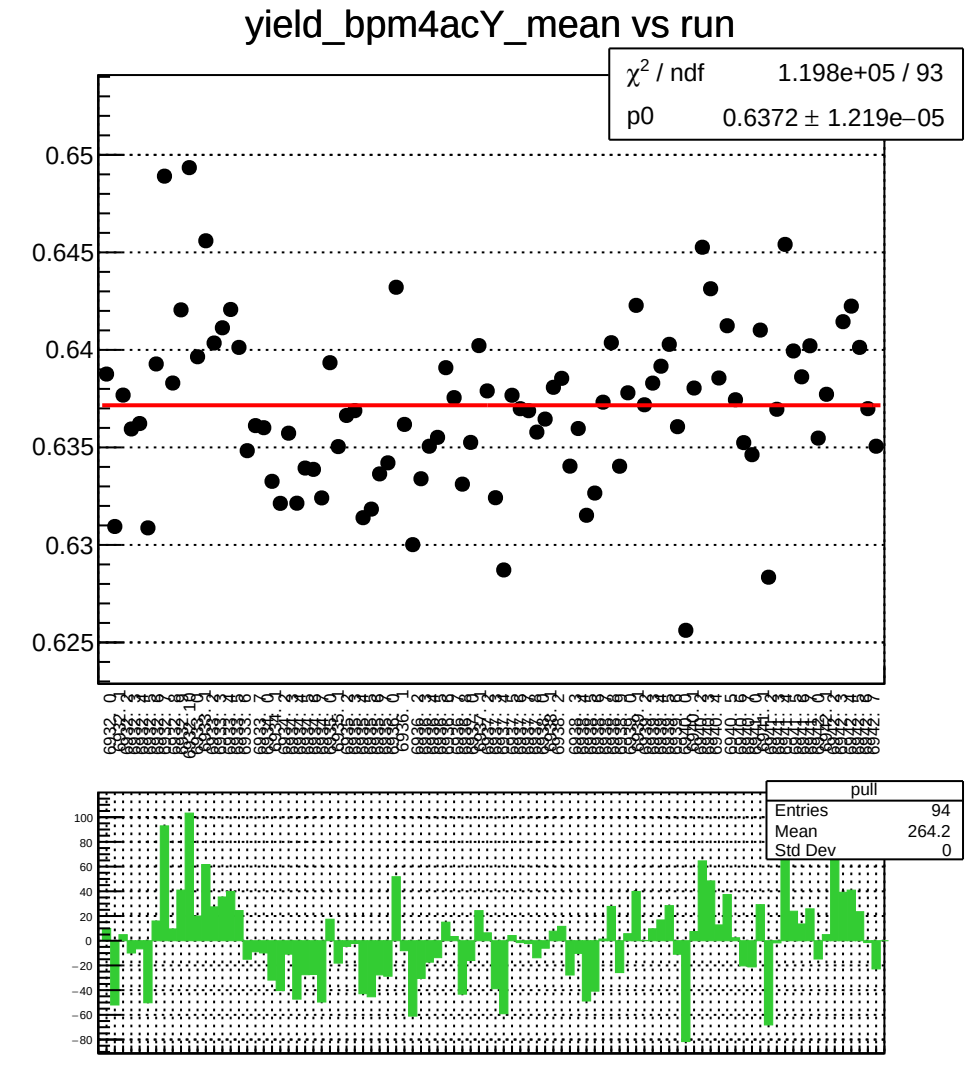

yield_bpm4eY_mean vs run
χ² / ndf 8.064e+04 / 93
p0 0.2929 ± 1.024e−05
pull
Entries 94
Mean 241.4
Std Dev 0

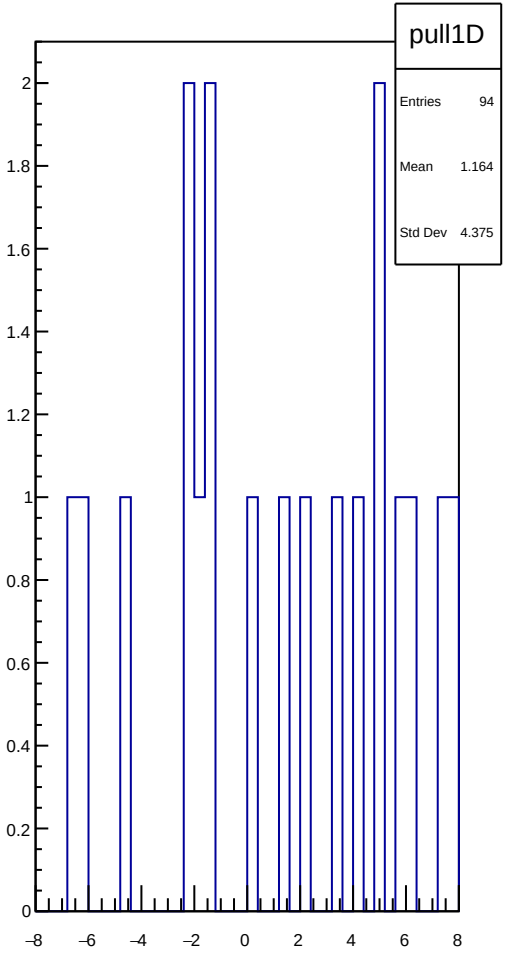

pull1D
Entries 94
Mean 0.2969
Std Dev 4.736

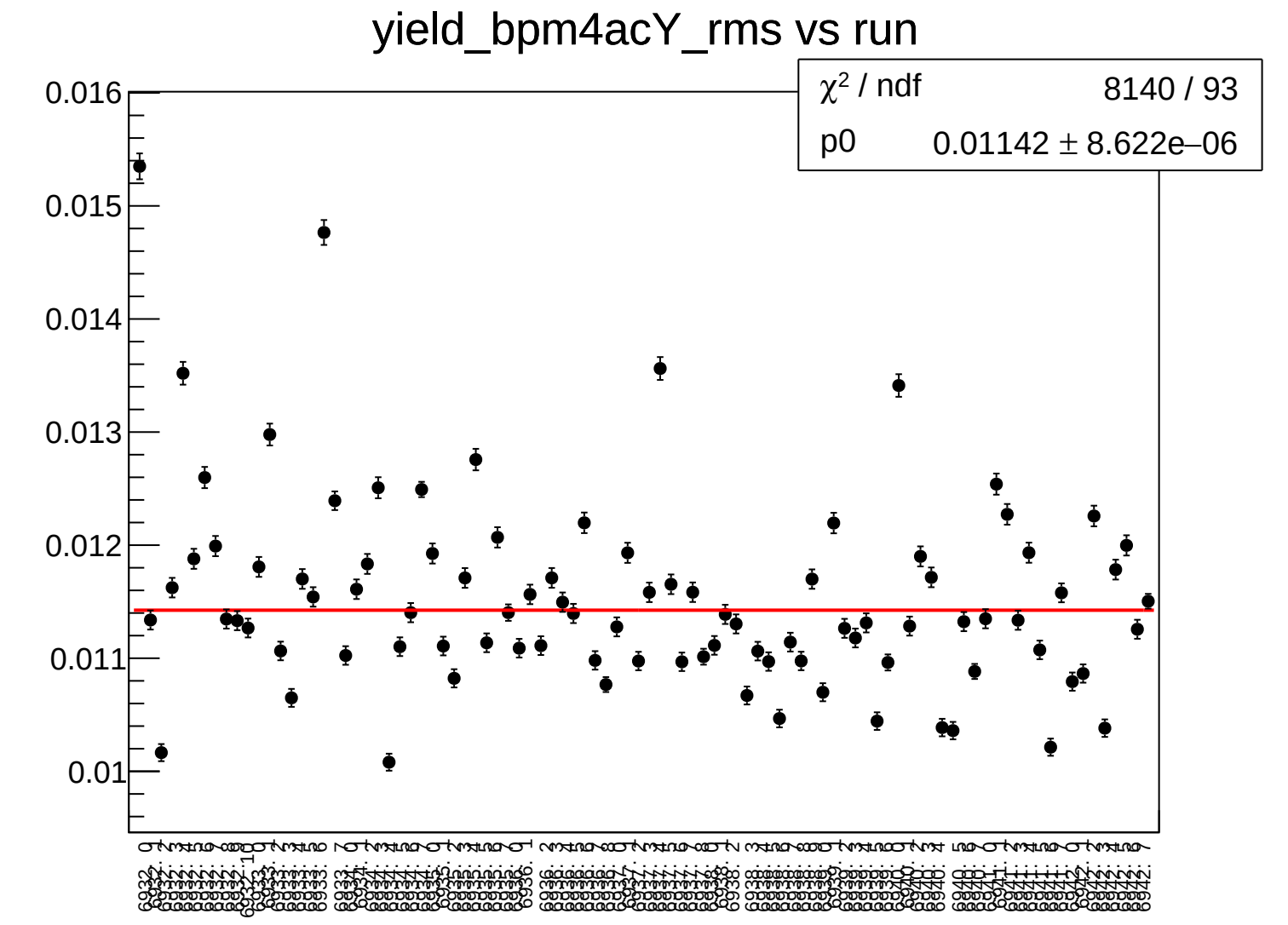

yield_bpm4eY_rms vs run
χ^2 / ndf 1.647e+04 / 93
p0 0.009574 ± 7.243e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

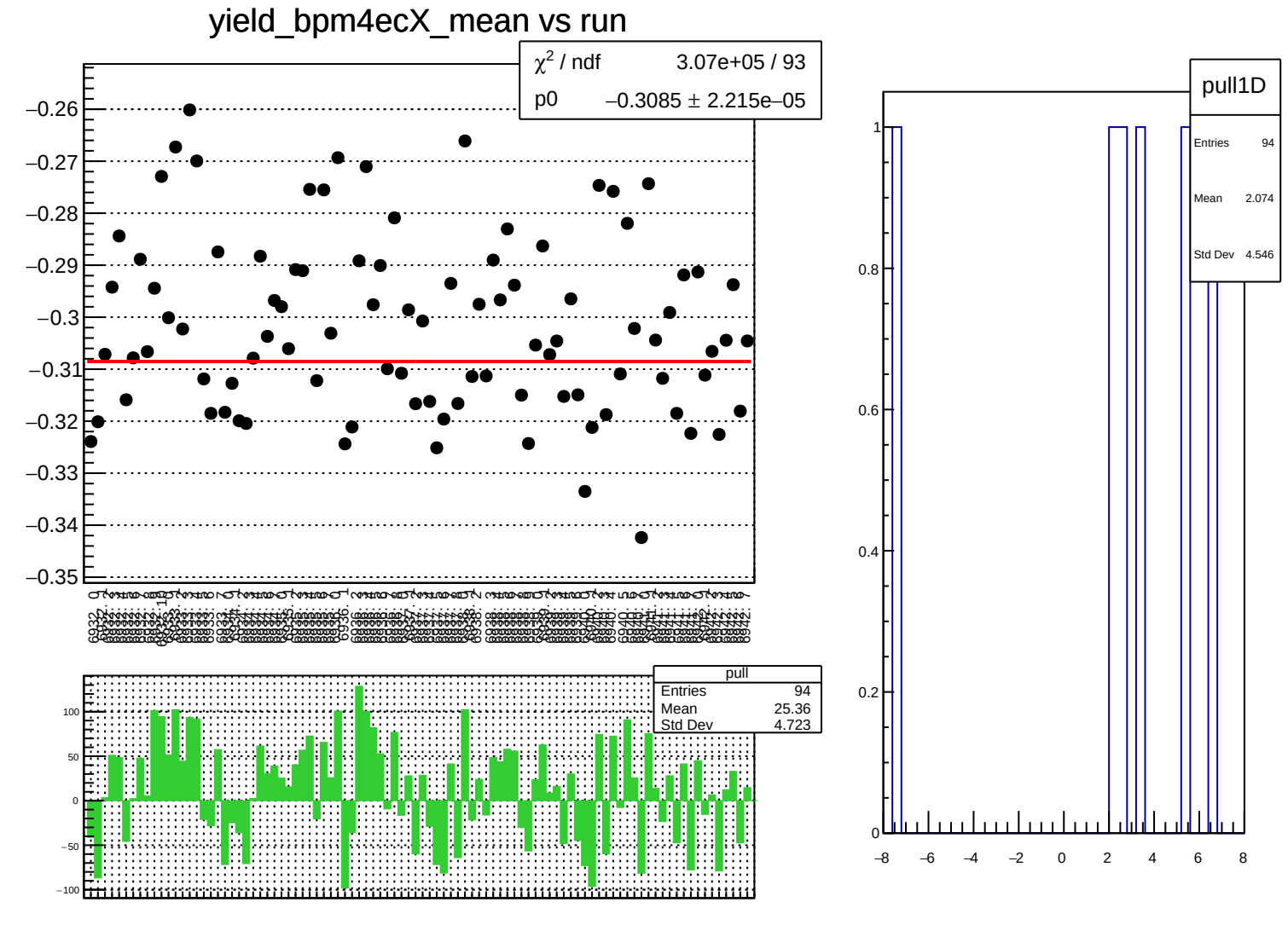

yield_bpm4acX_mean vs run
χ² / ndf 2.421e+05 / 93
p0 −1.095 ± 2.227e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 94
Mean 36.95
Std Dev 19.05
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.2917
Std Dev 4.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

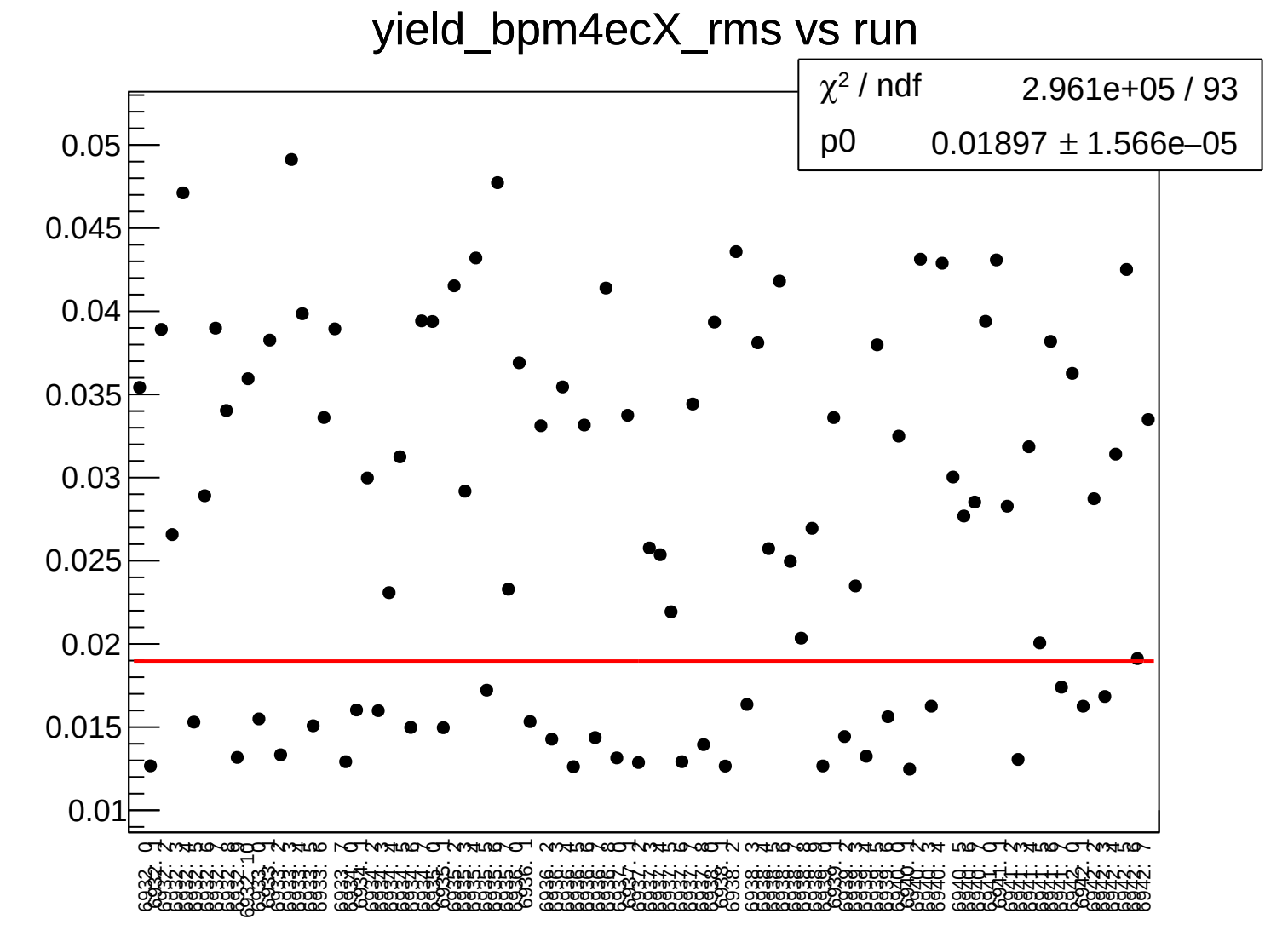

yield_bpm4acX_rms vs run
χ² / ndf 3.053e+05 / 93
p0 0.01902 ± 1.575e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

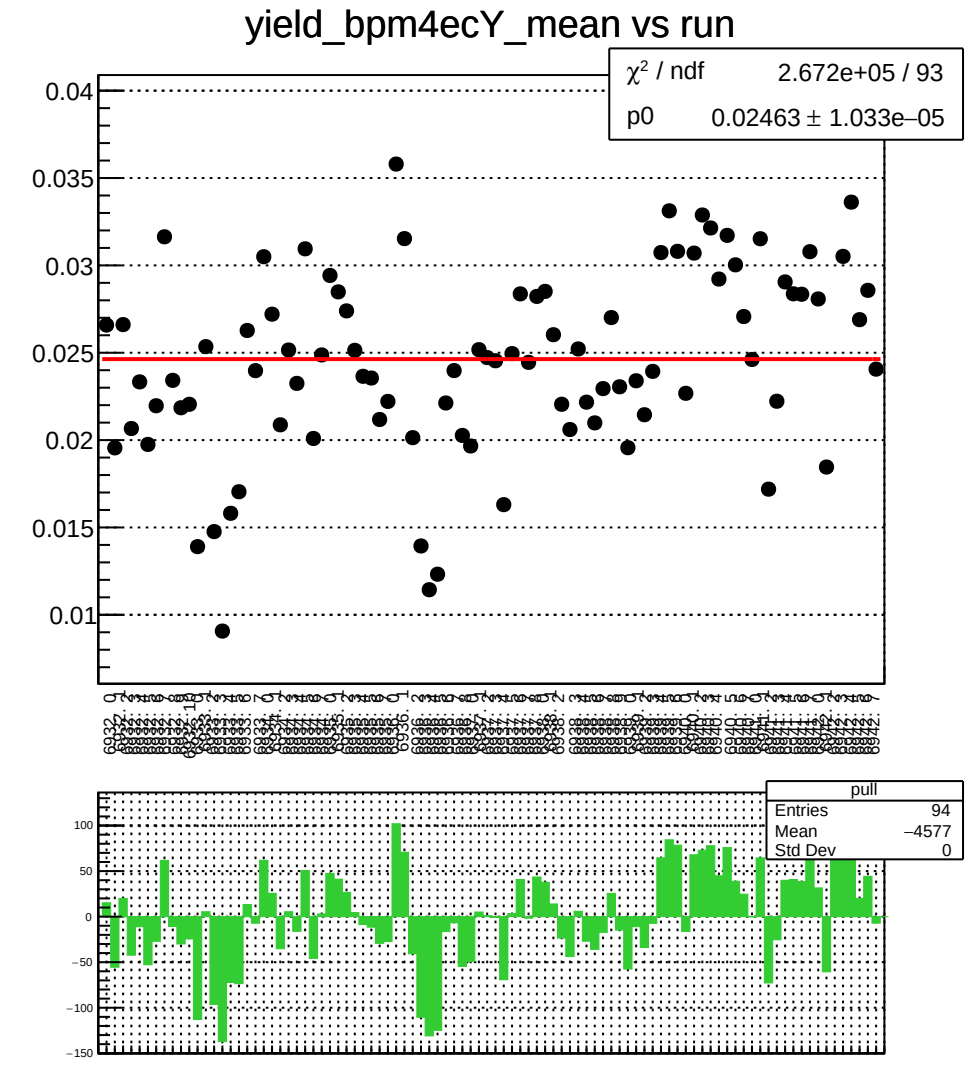

yield_bpm4acY_mean vs run
χ² / ndf 1.198e+05 / 93
p0 0.6372 ± 1.219e−05
0.65
0.645
0.64
0.635
0.63
0.625
pull
Entries 94
Mean 264.2
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

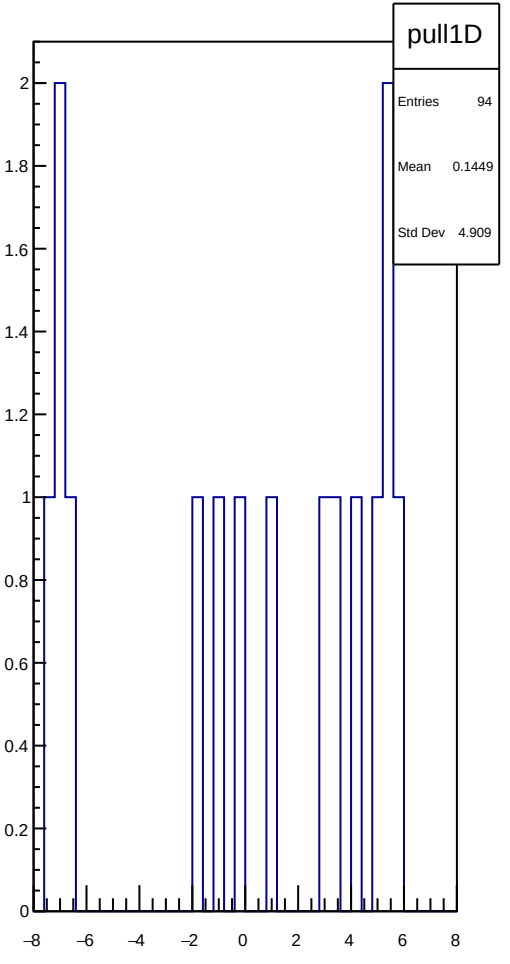

pull1D
Entries 94
Mean 1.164
Std Dev 4.375
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

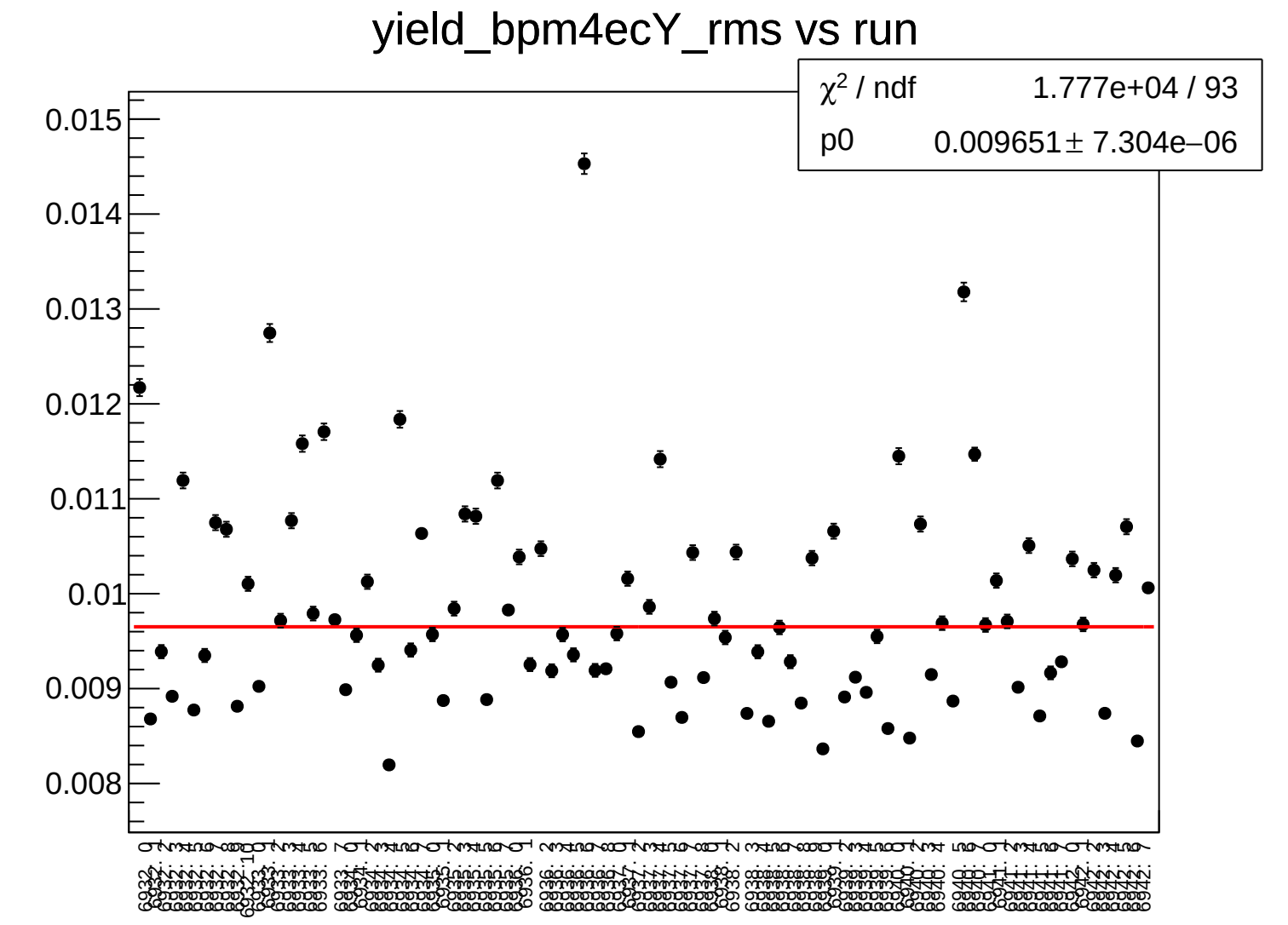

yield_bpm4acY_rms vs run
χ² / ndf 8140 / 93
p0 0.01142 ± 8.622e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01

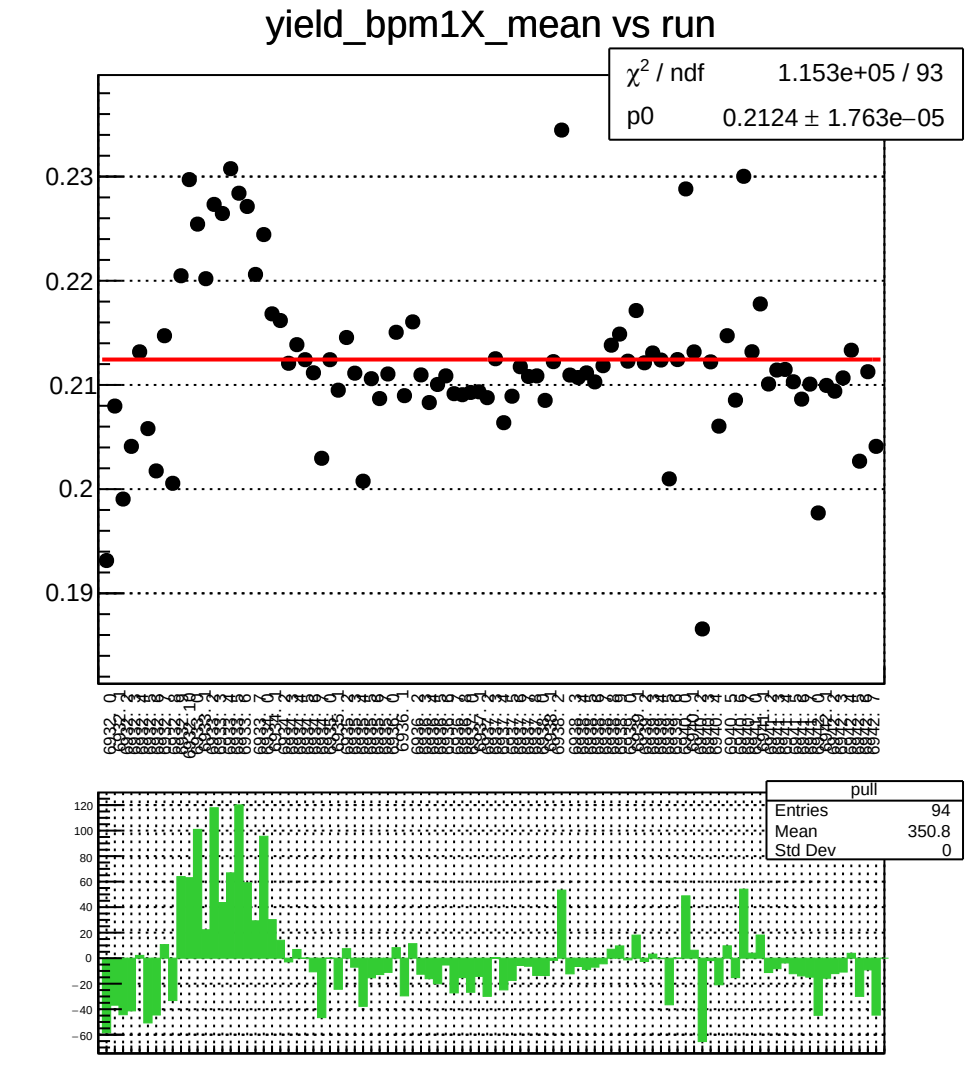

yield_bpm4ecX_mean vs run
χ² / ndf 3.07e+05 / 93
p0 −0.3085 ± 2.215e−05
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
−0.35
pull
Entries 94
Mean 25.36
Std Dev 4.723
100
50
0
−50
−100
pull1D
Entries 94
Mean 2.074
Std Dev 4.546
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

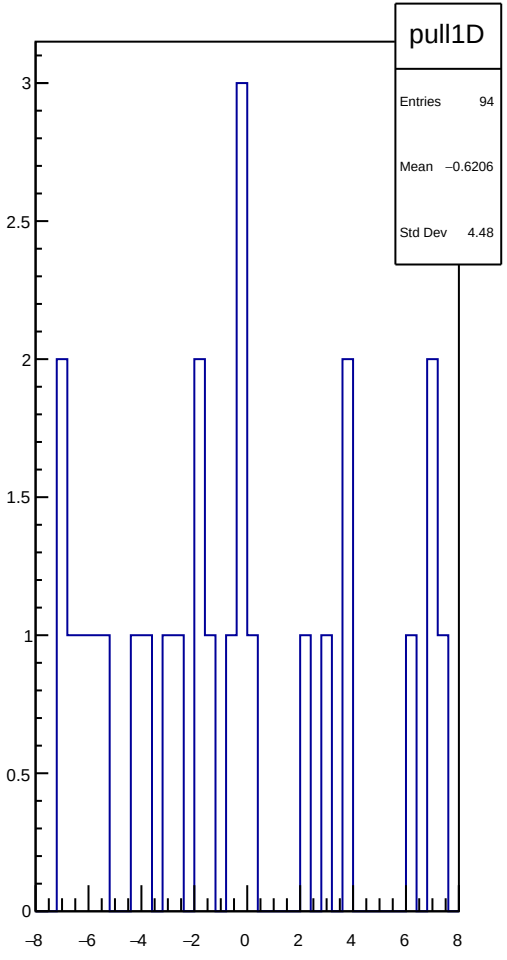

yield_bpm4ecX_rms vs run
χ² / ndf 2.961e+05 / 93
p0 0.01897 ± 1.566e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

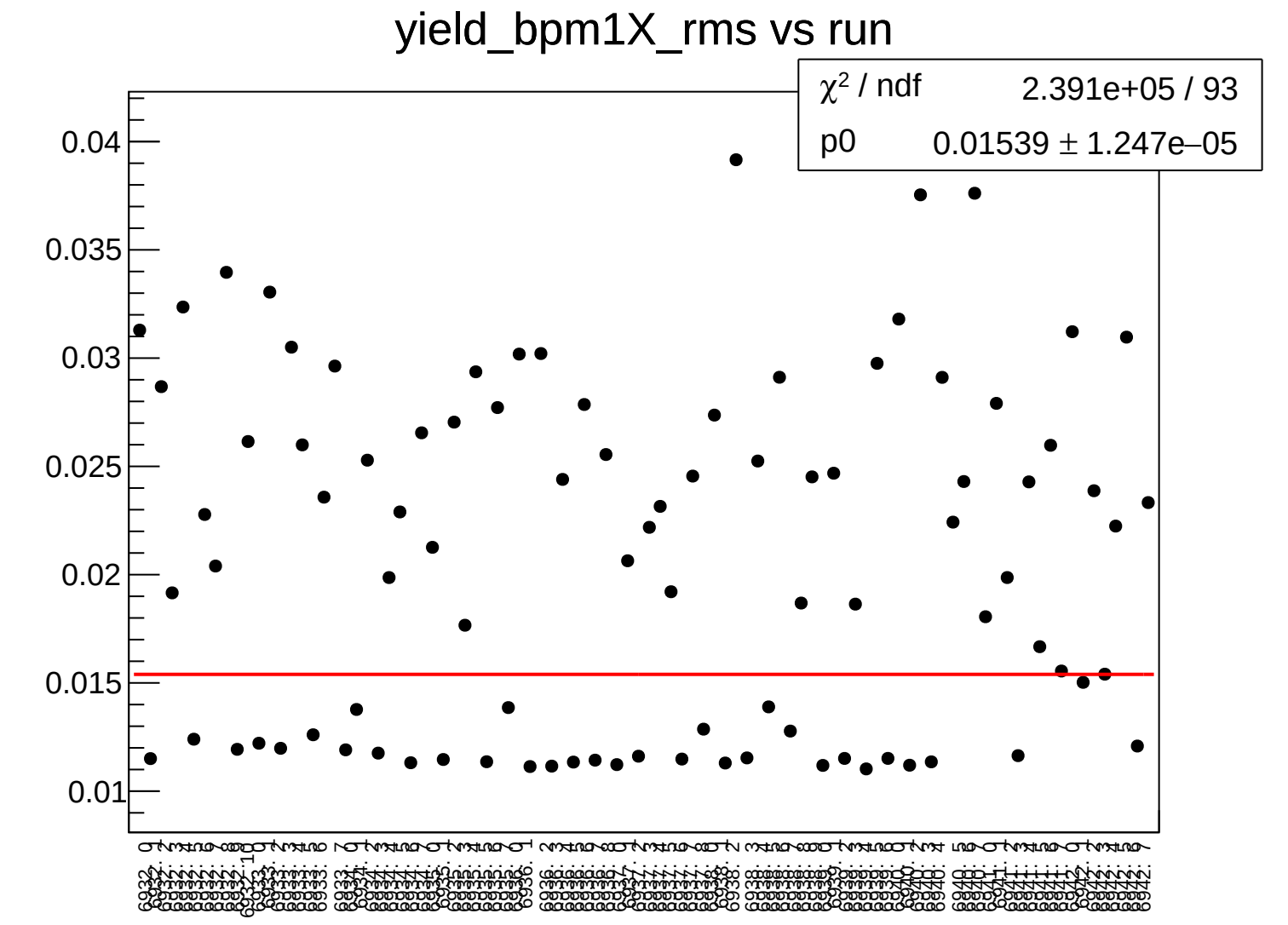

yield_bpm4ecY_mean vs run
χ² / ndf 2.672e+05 / 93
p0 0.02463 ± 1.033e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01
pull
Entries 94
Mean −4577
Std Dev 0
100
50
0
−50
−100
−150

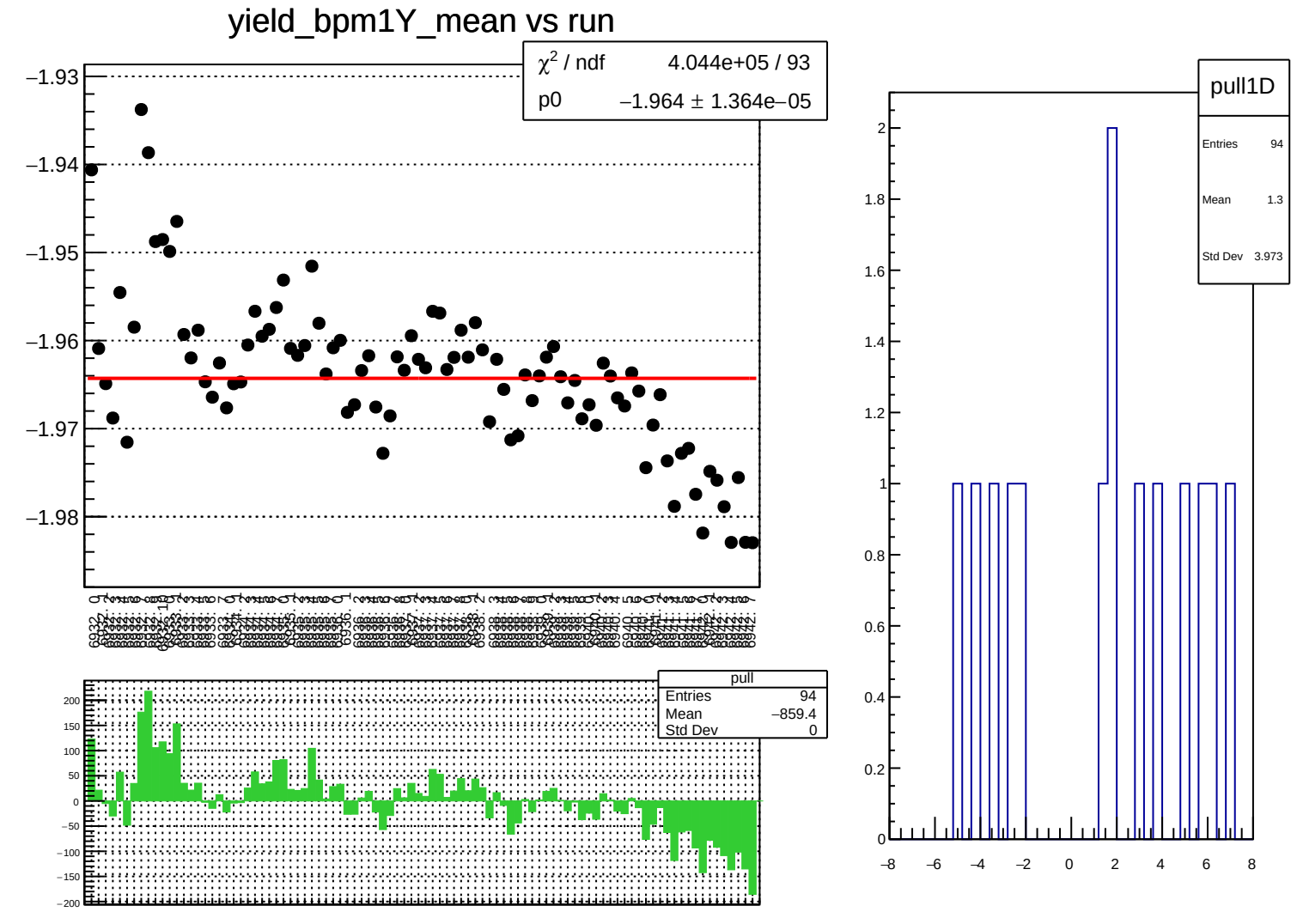

pull1D
Entries 94
Mean 0.1449
Std Dev 4.909
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

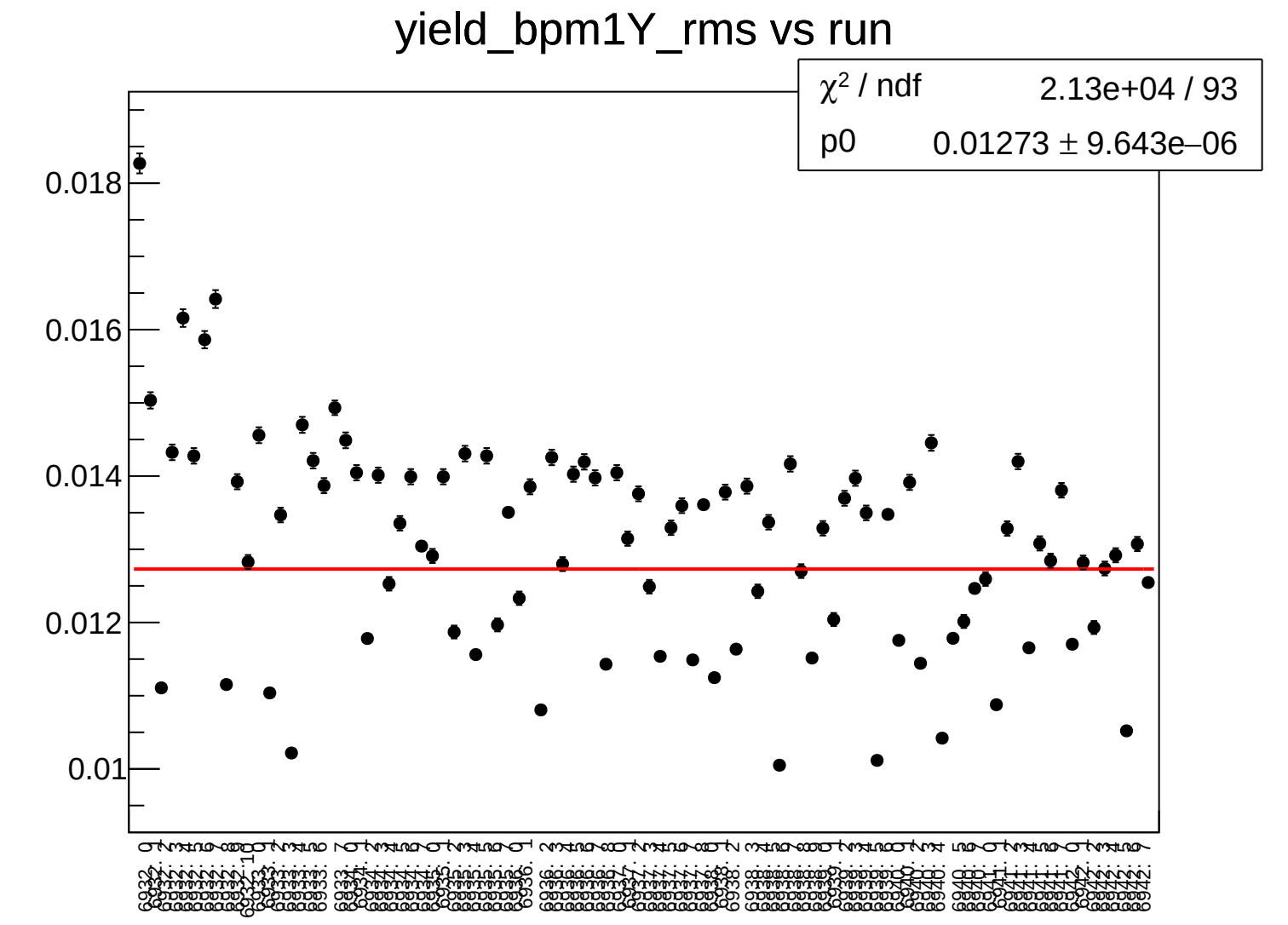

yield_bpm4ecY_rms vs run
χ² / ndf 1.777e+04 / 93
p0 0.009651 ± 7.304e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

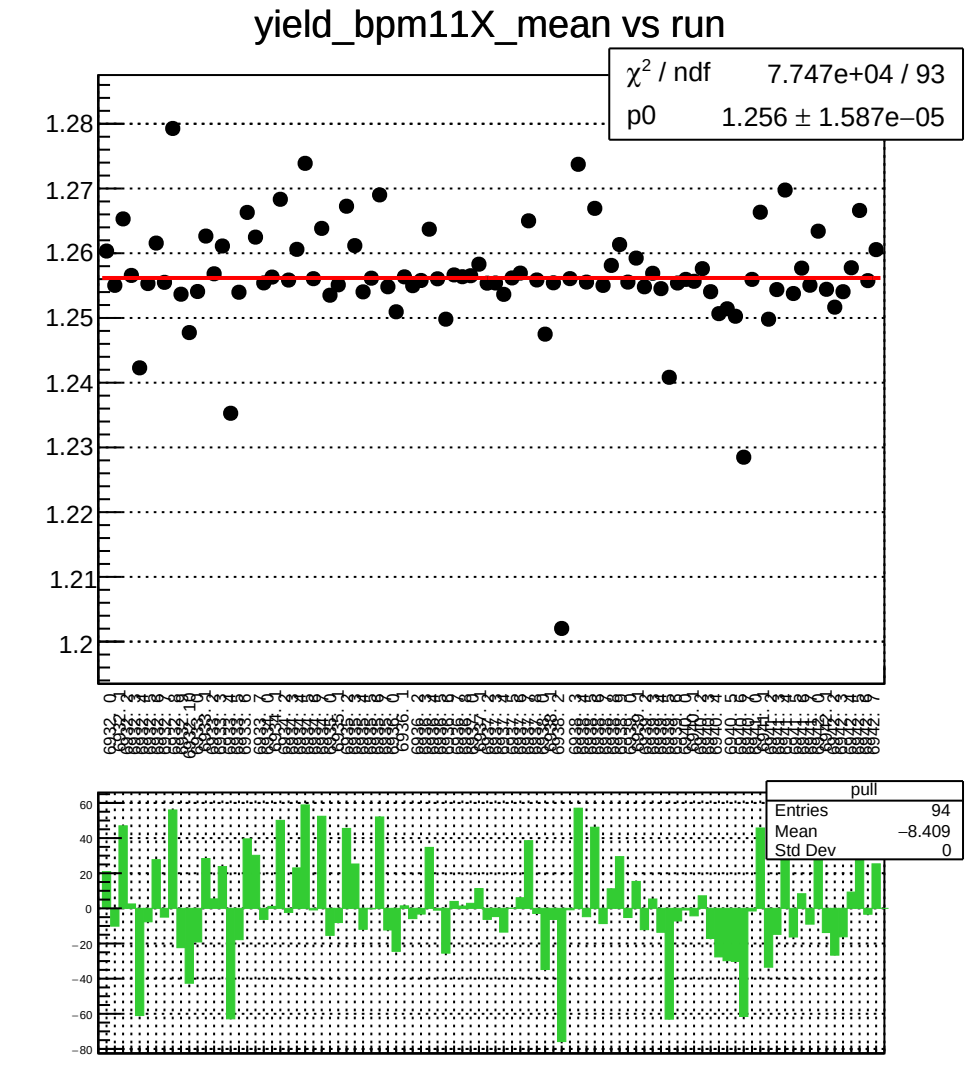

yield_bpm1X_mean vs run
χ² / ndf 1.153e+05 / 93
p0 0.2124 ± 1.763e−05
0.23
0.22
0.21
0.2
0.19
pull
Entries 94
Mean 350.8
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60

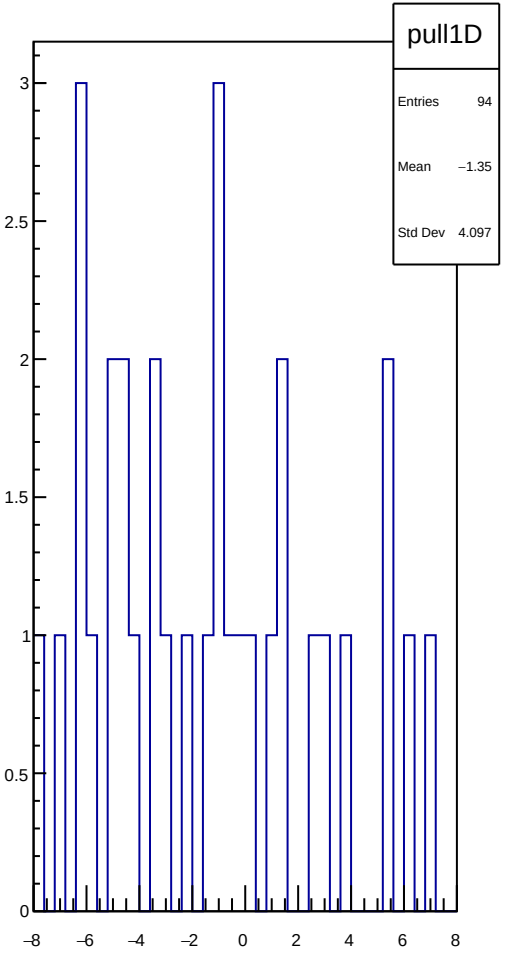

pull1D
Entries 94
Mean −0.6206
Std Dev 4.48
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

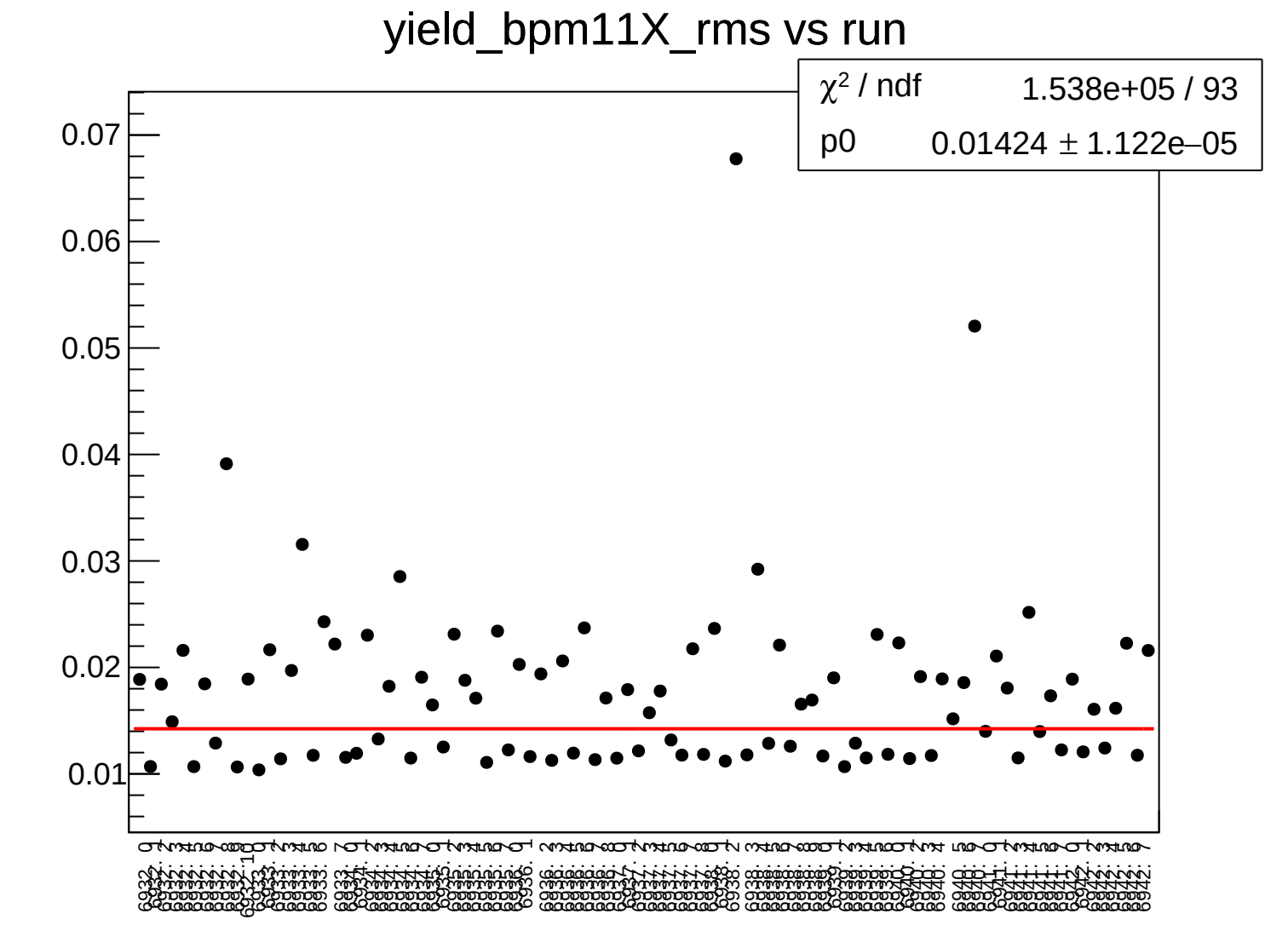

yield_bpm1X_rms vs run
χ² / ndf 2.391e+05 / 93
p0 0.01539 ± 1.247e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

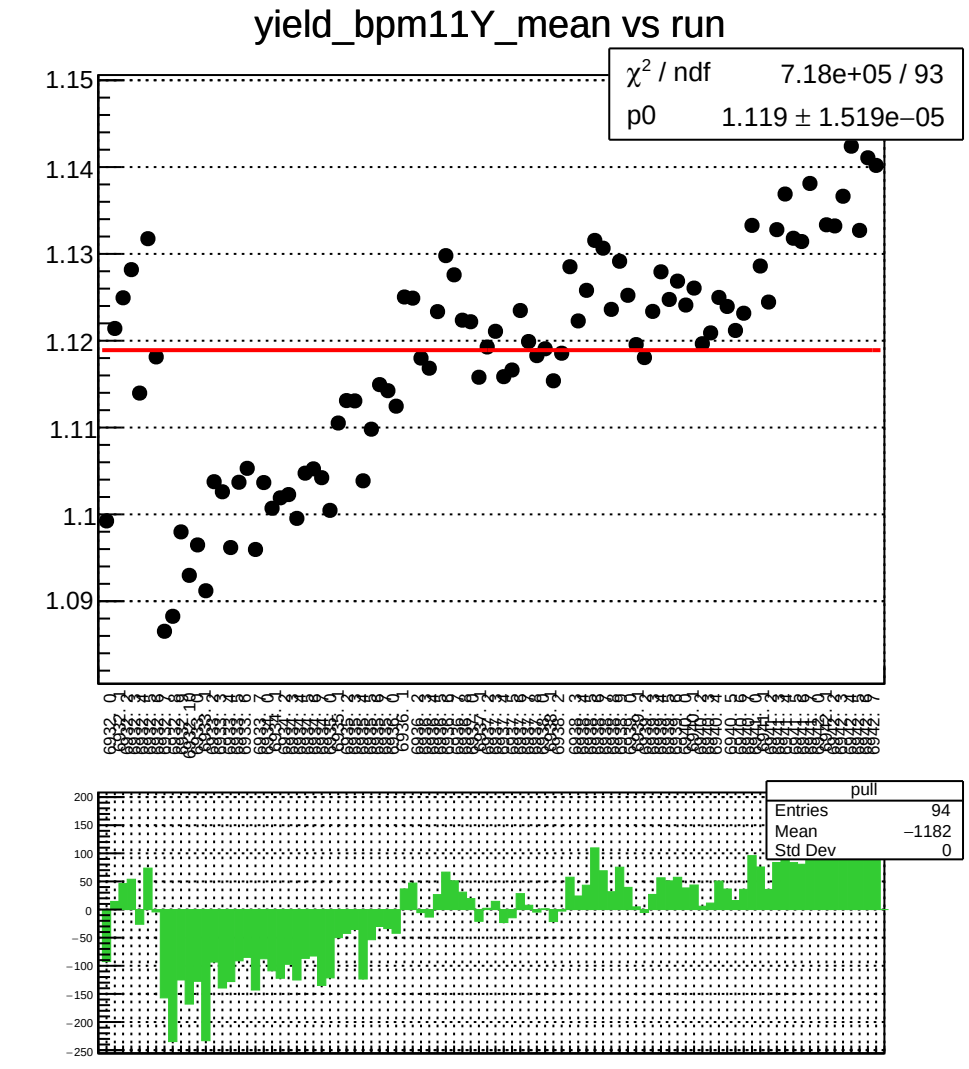

yield_bpm1Y_mean vs run
χ² / ndf 4.044e+05 / 93
p0 −1.964 ± 1.364e−05
−1.93
−1.94
−1.95
−1.96
−1.97
−1.98
pull
Entries 94
Mean −859.4
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean 1.3
Std Dev 3.973
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

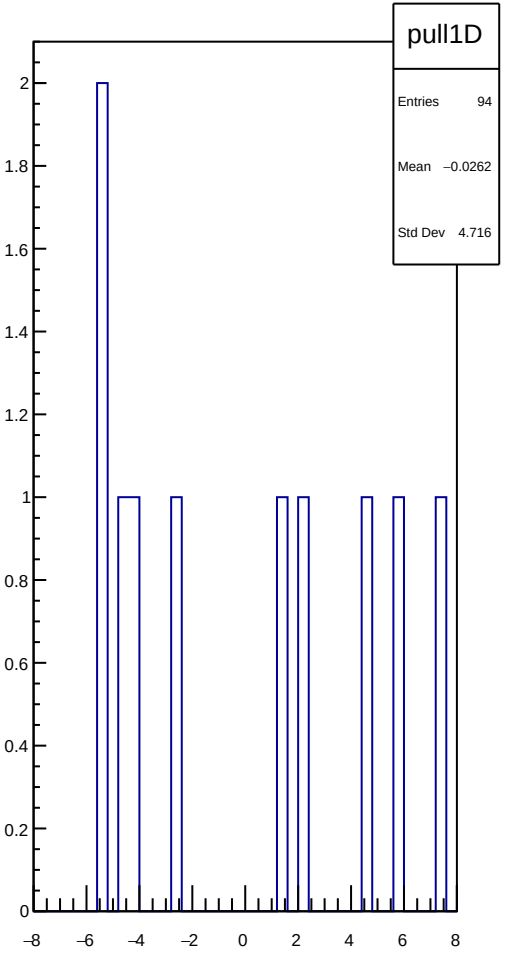

yield_bpm1Y_rms vs run
χ² / ndf 2.13e+04 / 93
p0 0.01273 ± 9.643e–06
0.018
0.016
0.014
0.012
0.01

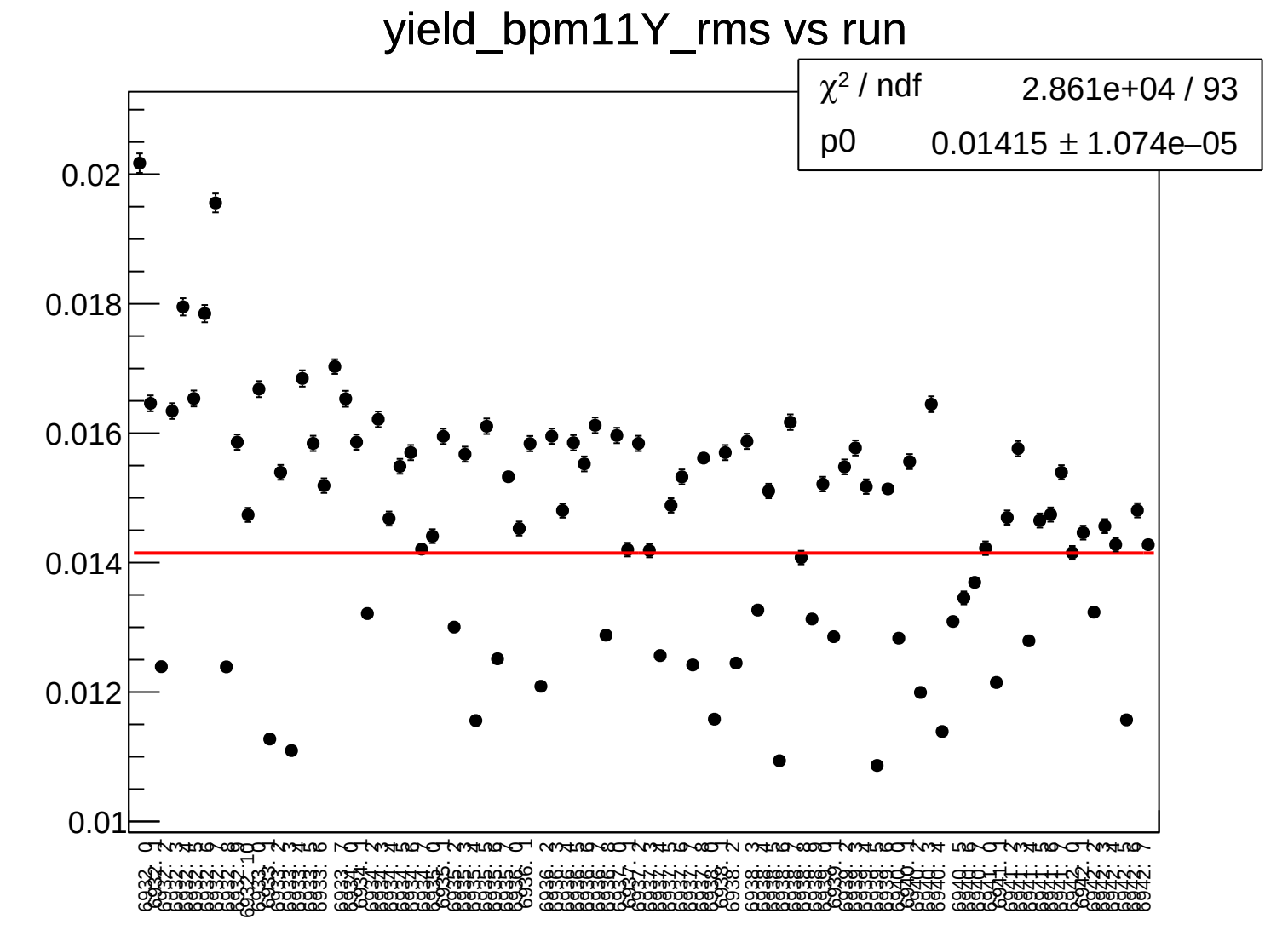

yield_bpm11X_mean vs run
χ² / ndf 7.747e+04 / 93
p0 1.256 ± 1.587e−05
1.28
1.27
1.26
1.25
1.24
1.23
1.22
1.21
1.2
pull
Entries 94
Mean −8.409
Std Dev 0
60
40
20
0
−20
−40
−60
−80

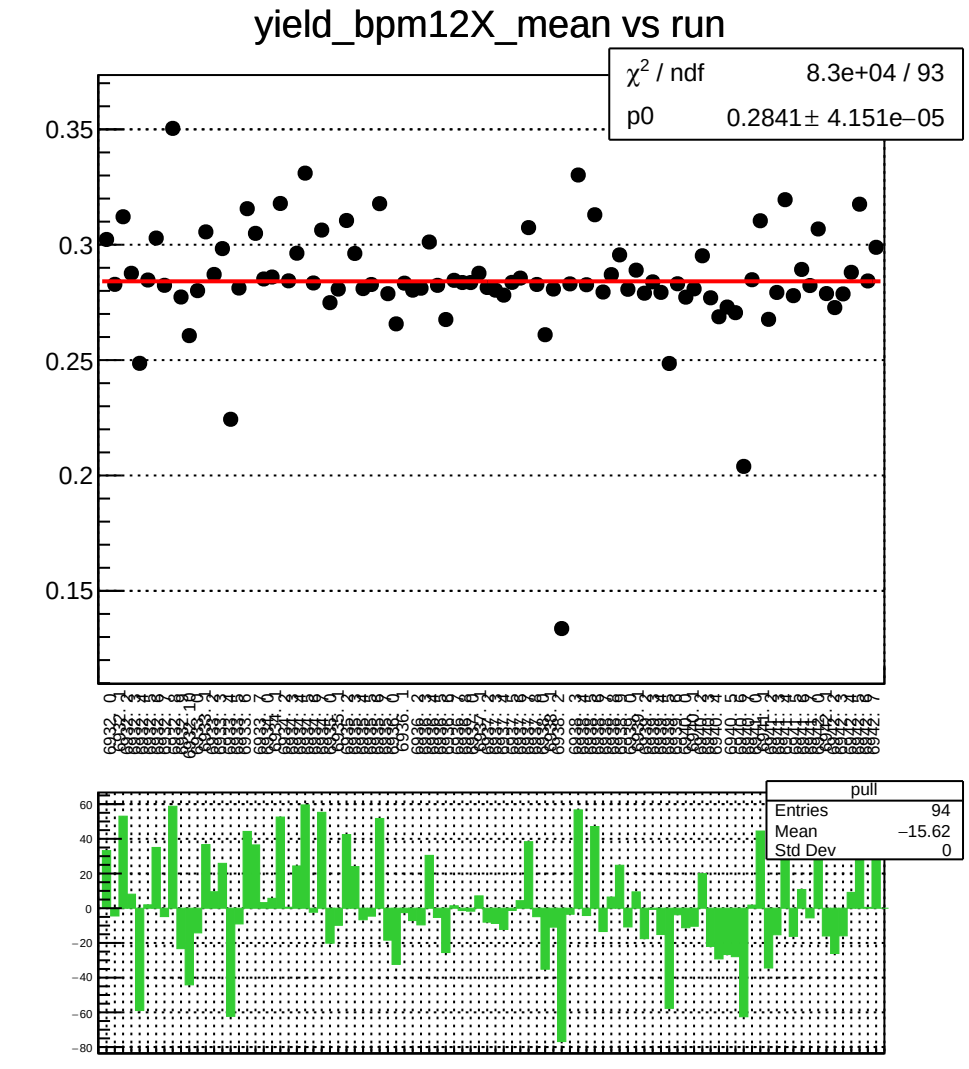

pull1D
Entries 94
Mean −1.35
Std Dev 4.097
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

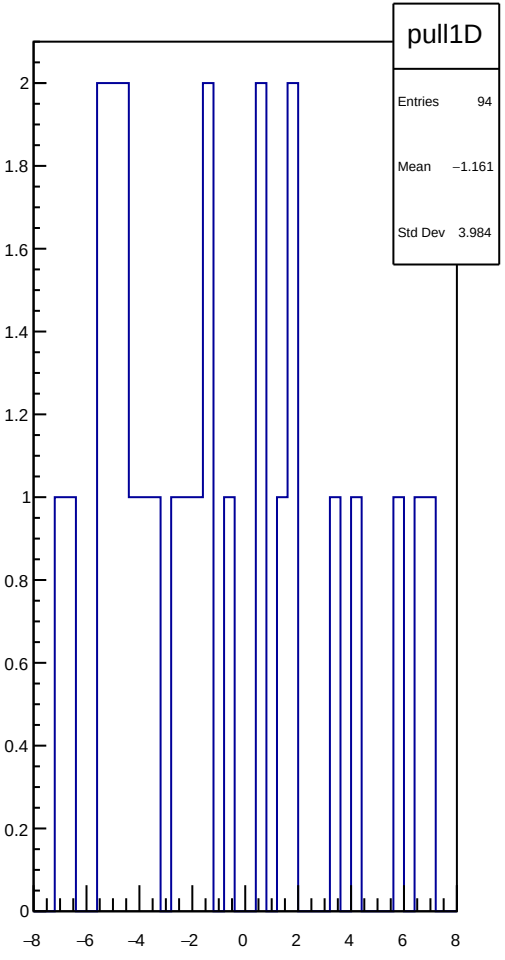

yield_bpm11X_rms vs run
χ² / ndf 1.538e+05 / 93
p0 0.01424 ± 1.122e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

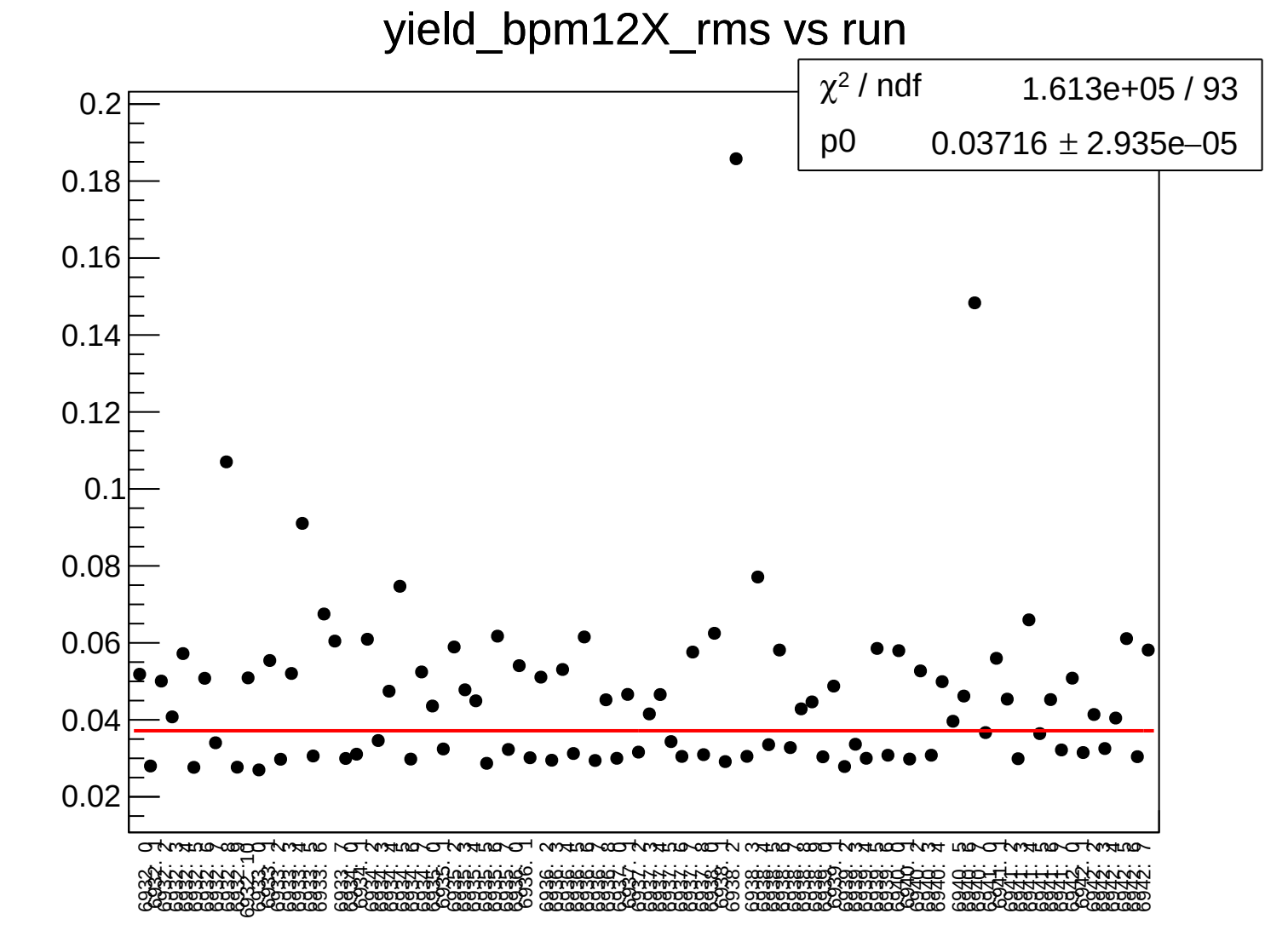

yield_bpm11Y_mean vs run
χ² / ndf 7.18e+05 / 93
p0 1.119 ± 1.519e−05
1.15
1.14
1.13
1.12
1.11
1.1
1.09
pull
Entries 94
Mean −1182
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

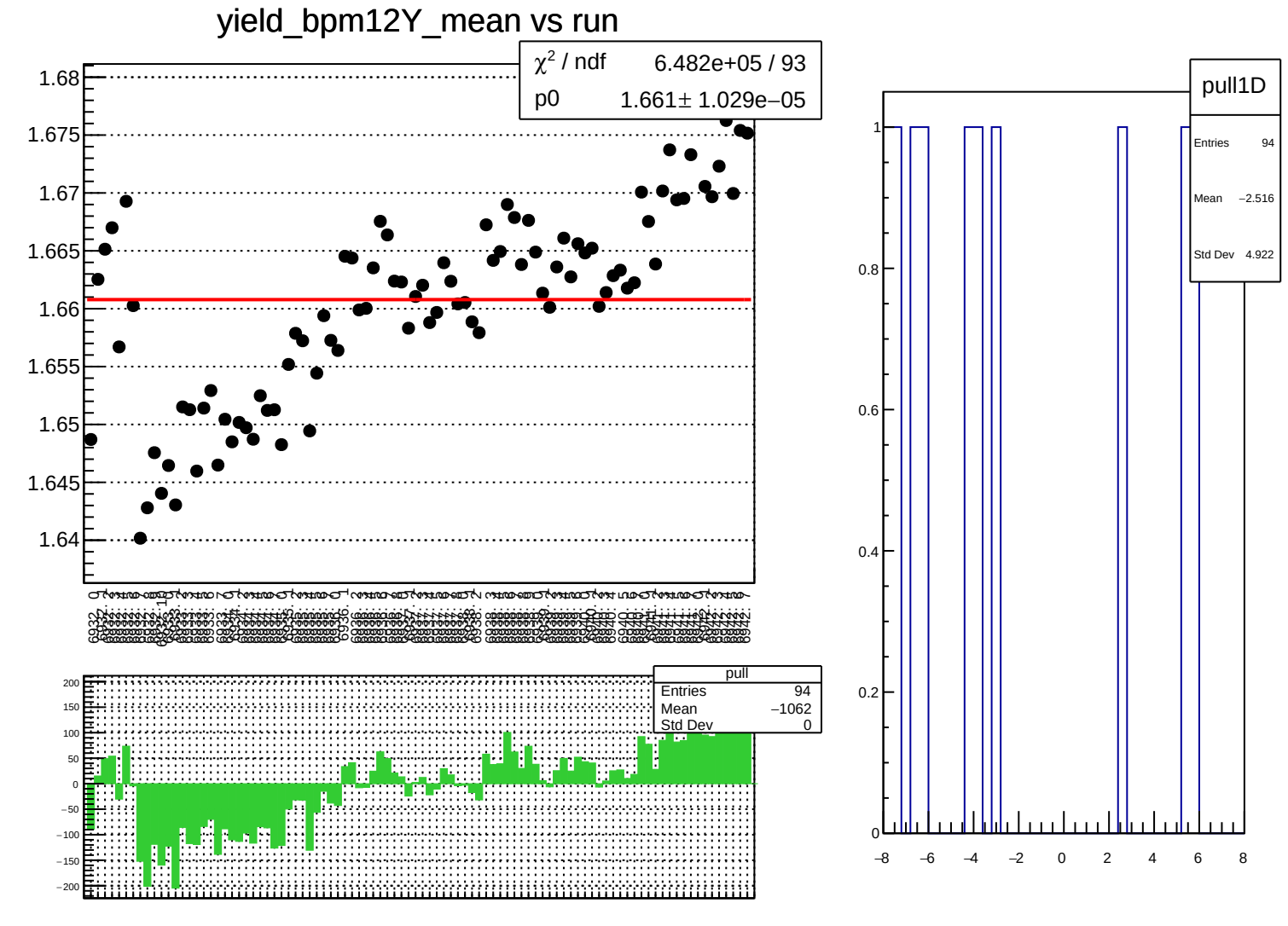

pull1D
Entries 94
Mean −0.0262
Std Dev 4.716
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

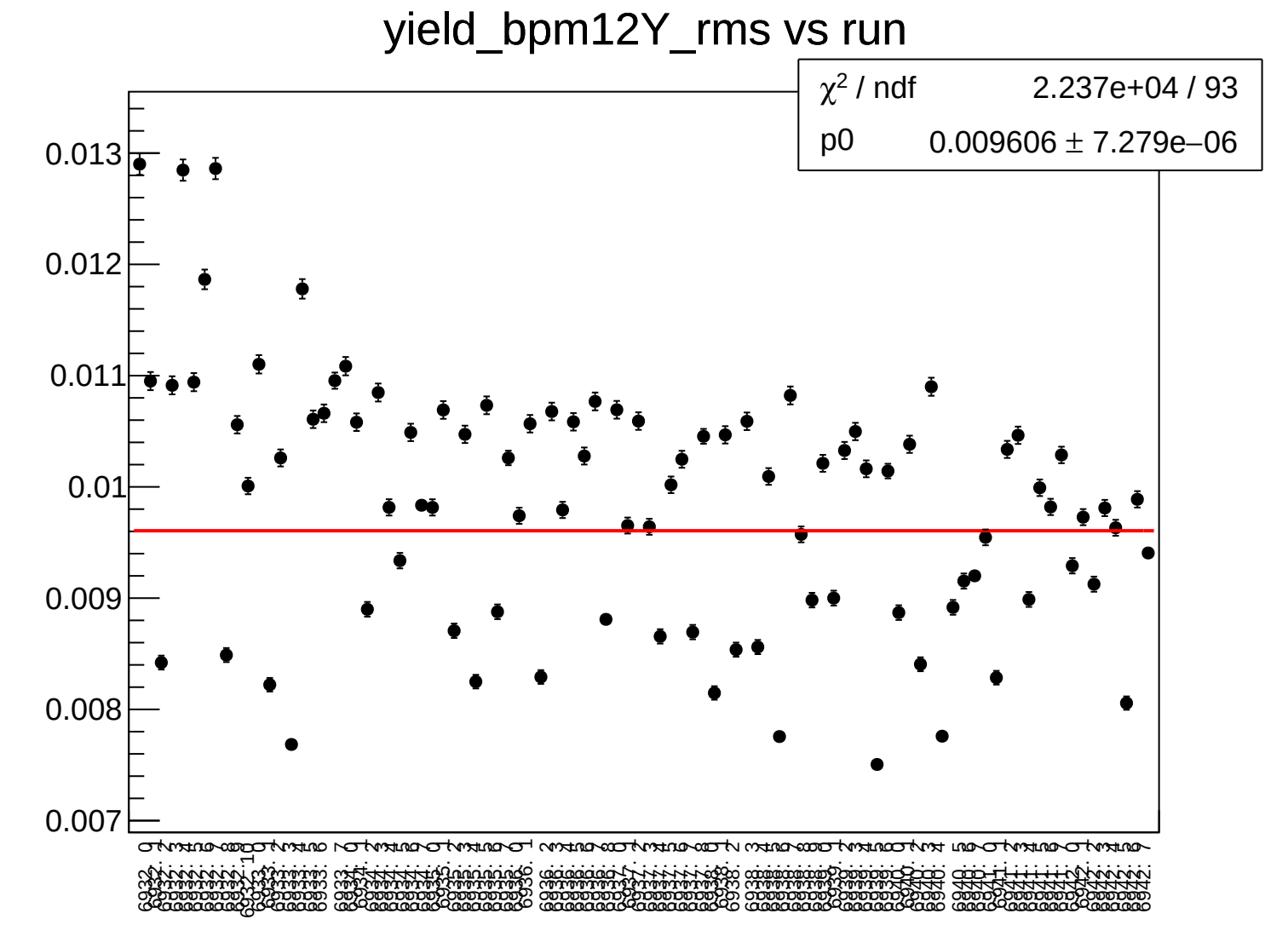

yield_bpm11Y_rms vs run
χ² / ndf 2.861e+04 / 93
p0 0.01415 ± 1.074e−05
0.02
0.018
0.016
0.014
0.012
0.01

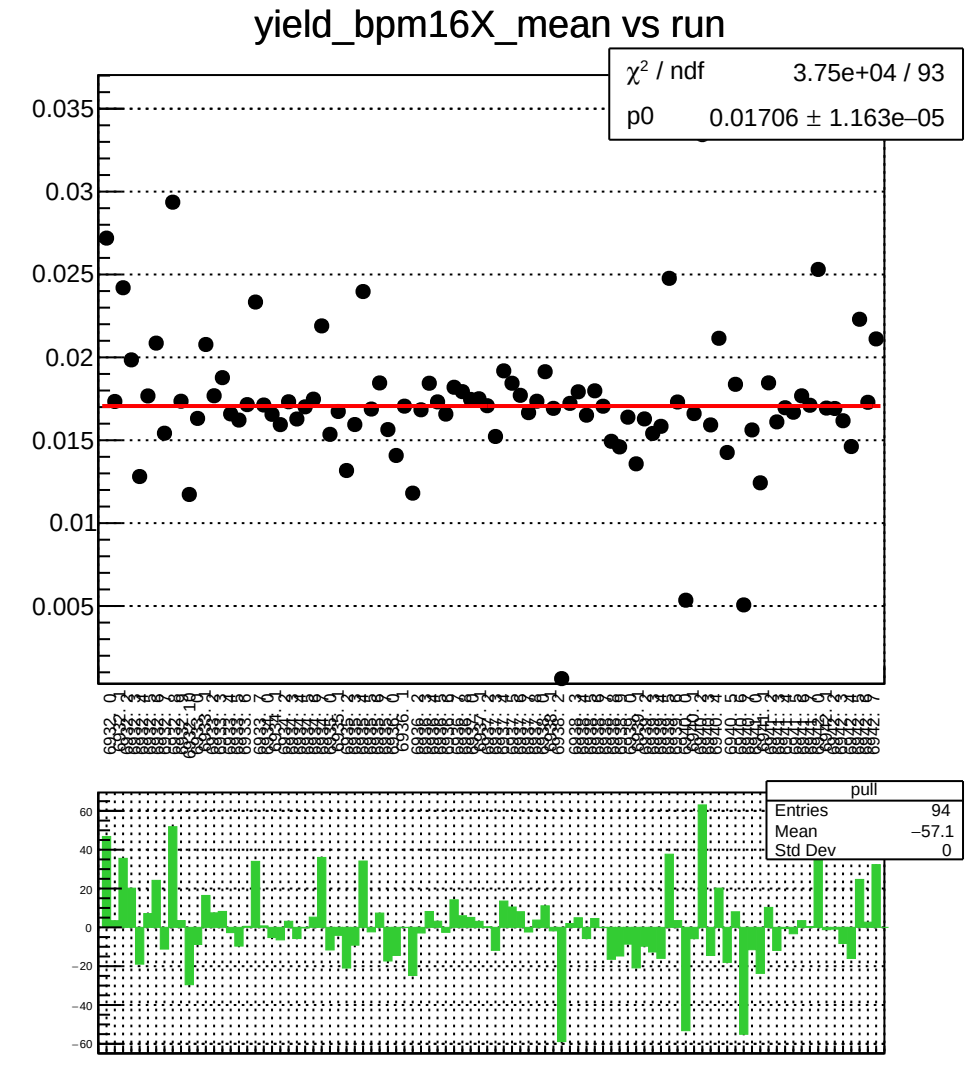

yield_bpm12X_mean vs run
χ² / ndf 8.3e+04 / 93
p0 0.2841 ± 4.151e−05
0.35
0.3
0.25
0.2
0.15
pull
Entries 94
Mean −15.62
Std Dev 0
60
40
20
0
−20
−40
−60
−80

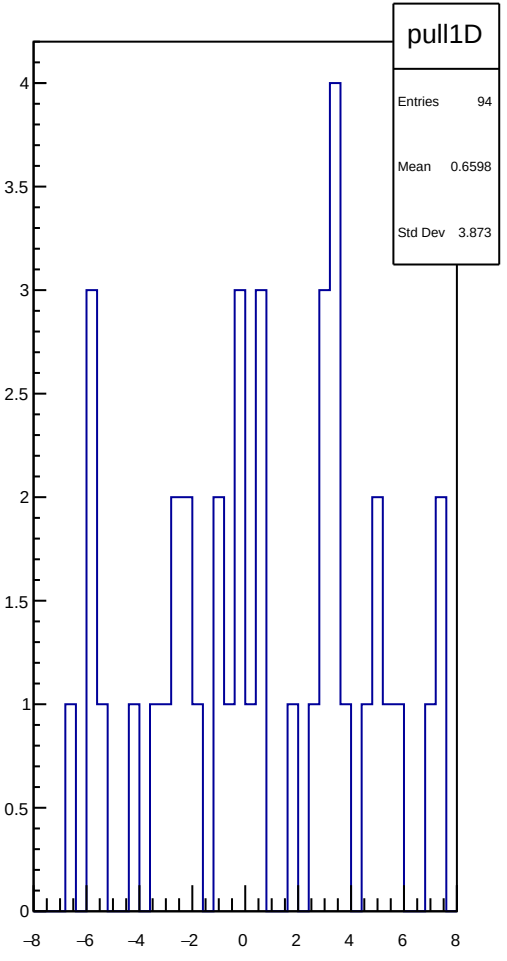

pull1D
Entries 94
Mean −1.161
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

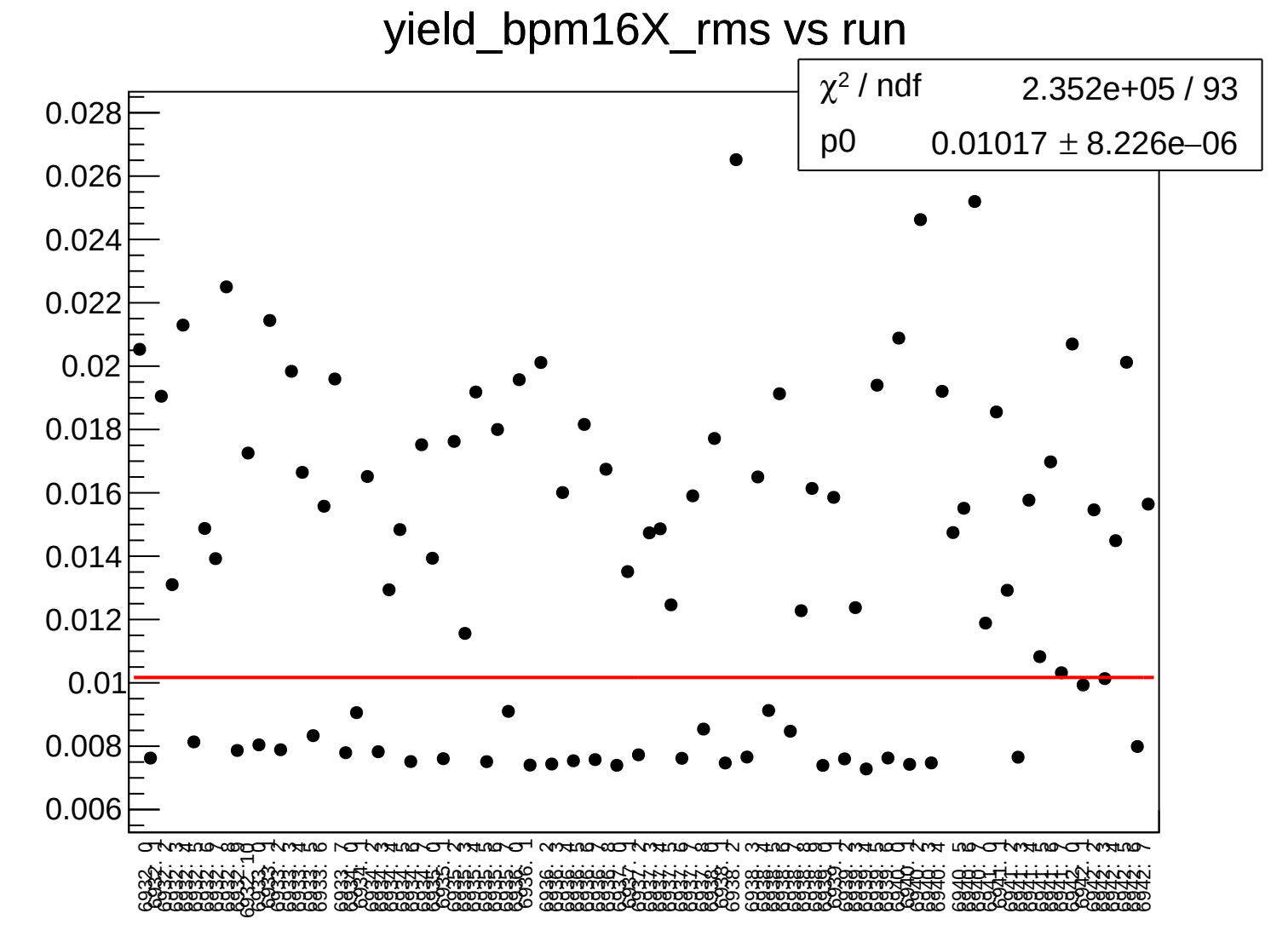

yield_bpm12X_rms vs run
χ² / ndf 1.613e+05 / 93
p0 0.03716 ± 2.935e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

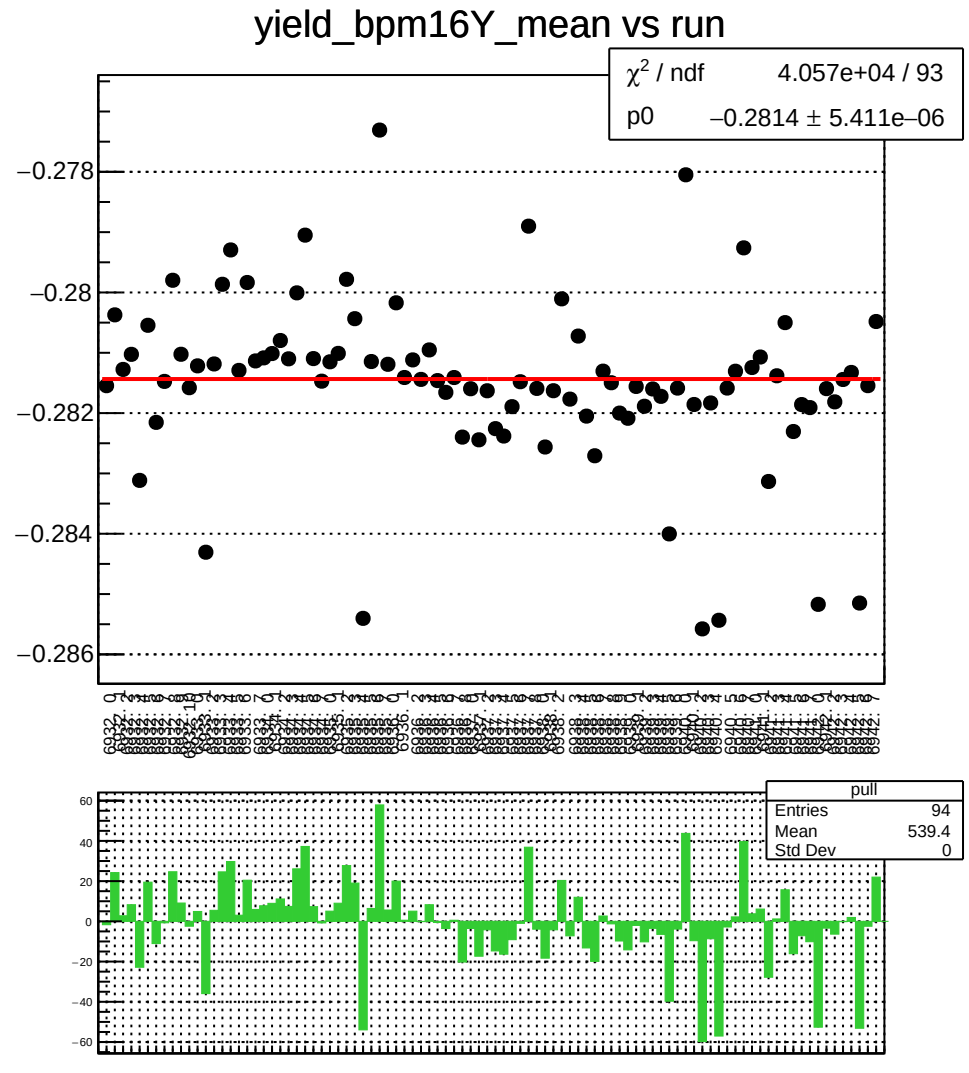

yield_bpm12Y_mean vs run
χ² / ndf 6.482e+05 / 93
p0 1.661± 1.029e−05
1.68
1.675
1.67
1.665
1.66
1.655
1.65
1.645
1.64
pull
Entries 94
Mean −1062
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −2.516
Std Dev 4.922
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

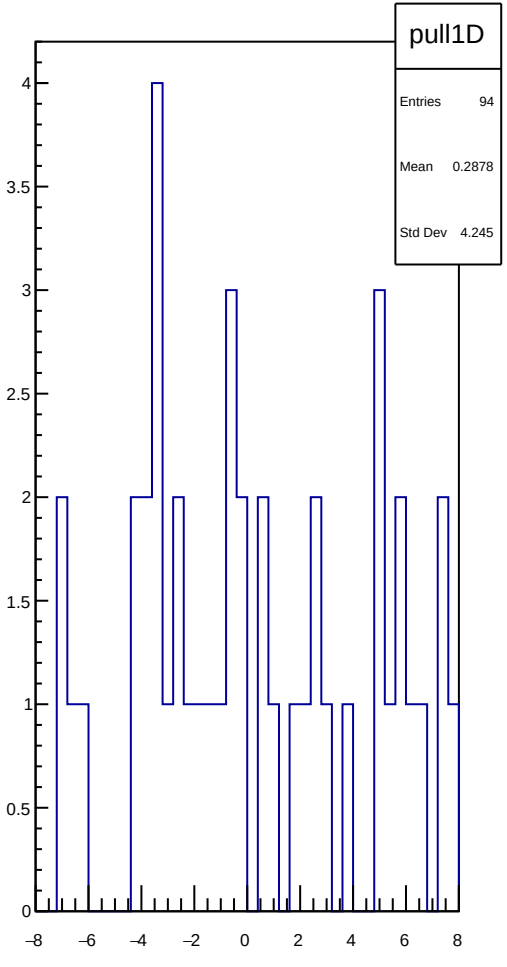

yield_bpm12Y_rms vs run
χ² / ndf 2.237e+04 / 93
p0 0.009606 ± 7.279e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

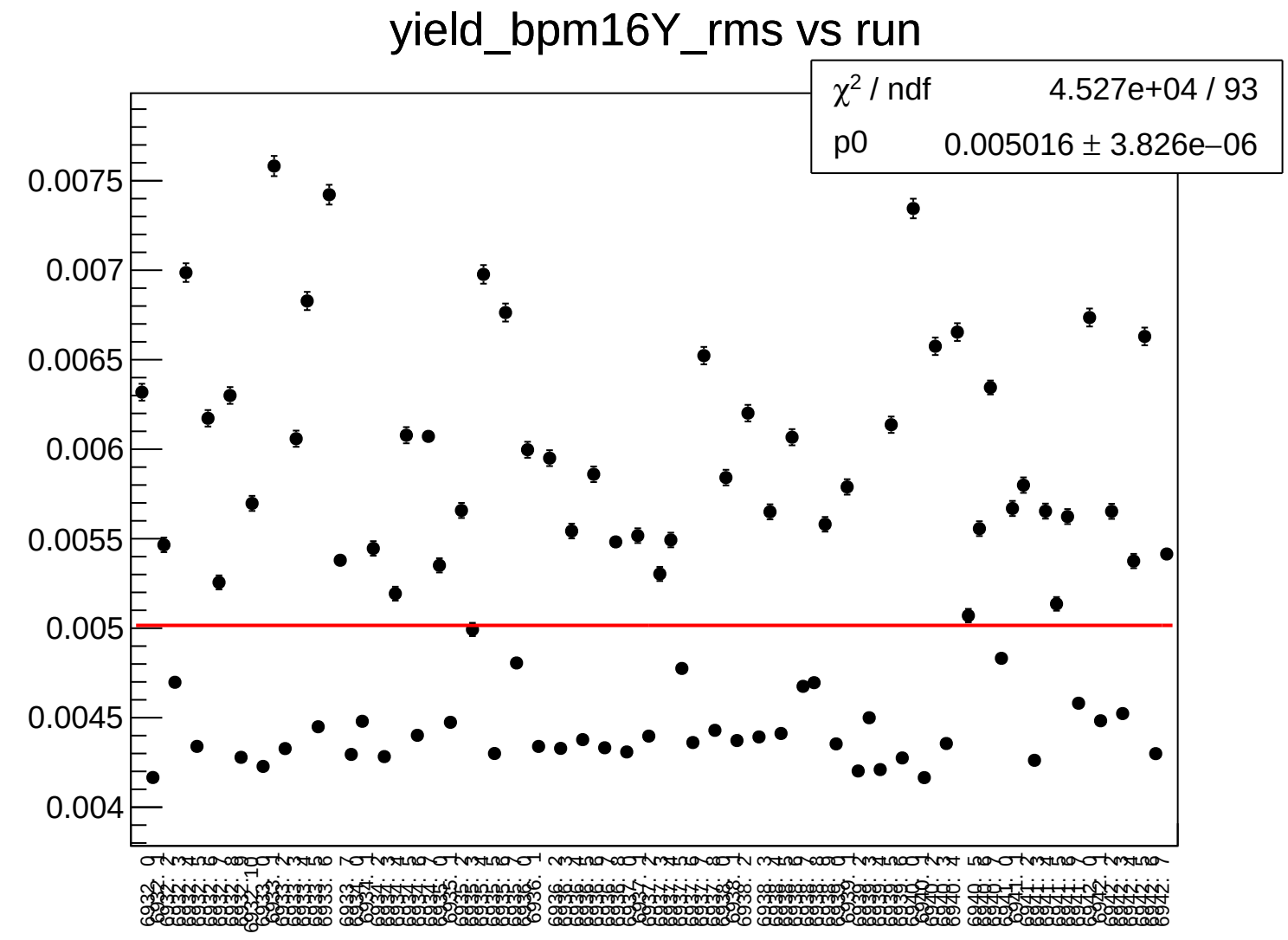

yield_bpm16X_mean vs run
χ² / ndf 3.75e+04 / 93
p0 0.01706 ± 1.163e−05
0.035
0.03
0.025
0.02
0.015
0.01
0.005
pull
Entries 94
Mean −57.1
Std Dev 0
60
40
20
0
−20
−40
−60

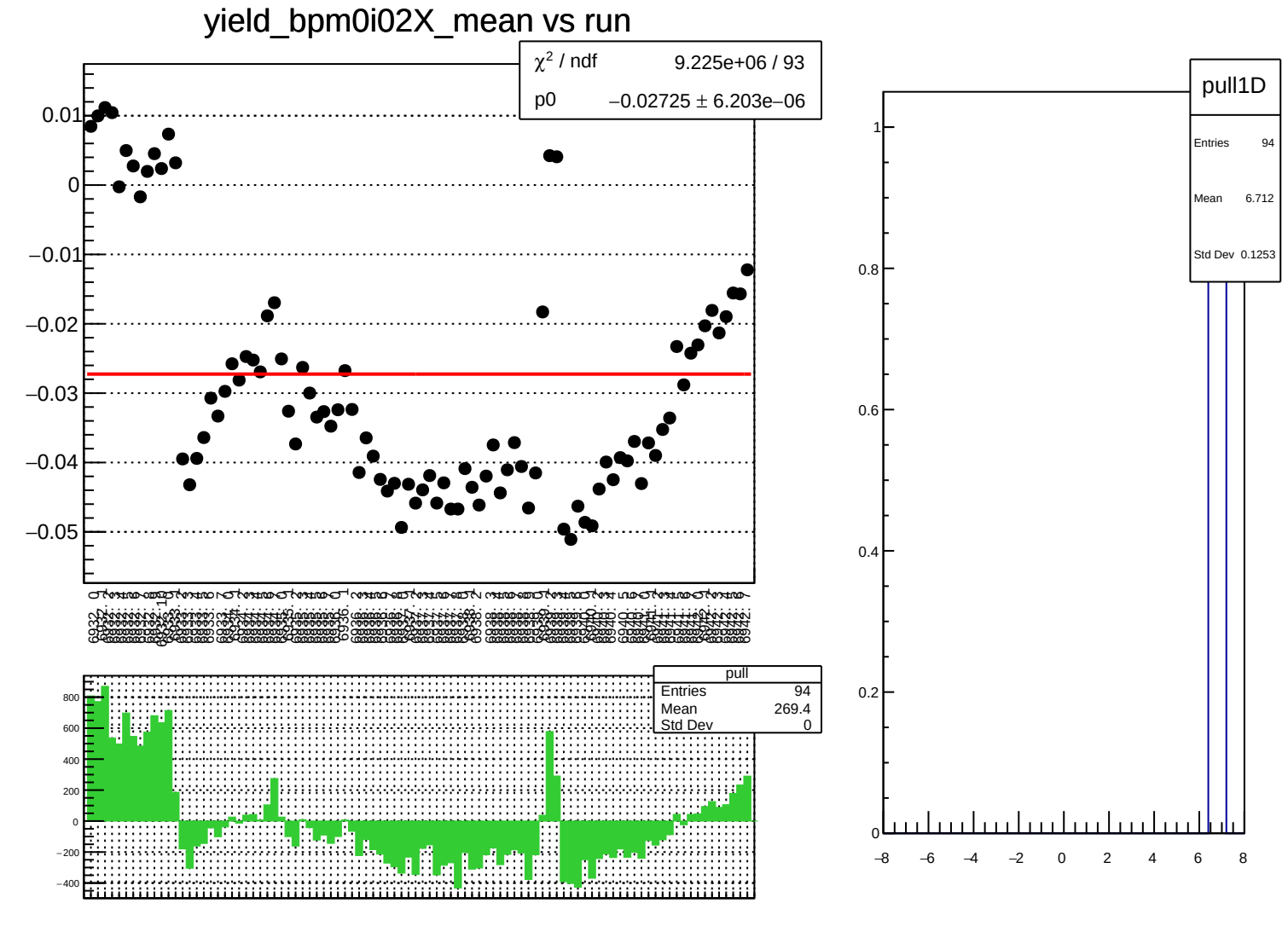

pull1D
Entries 94
Mean 0.6598
Std Dev 3.873
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

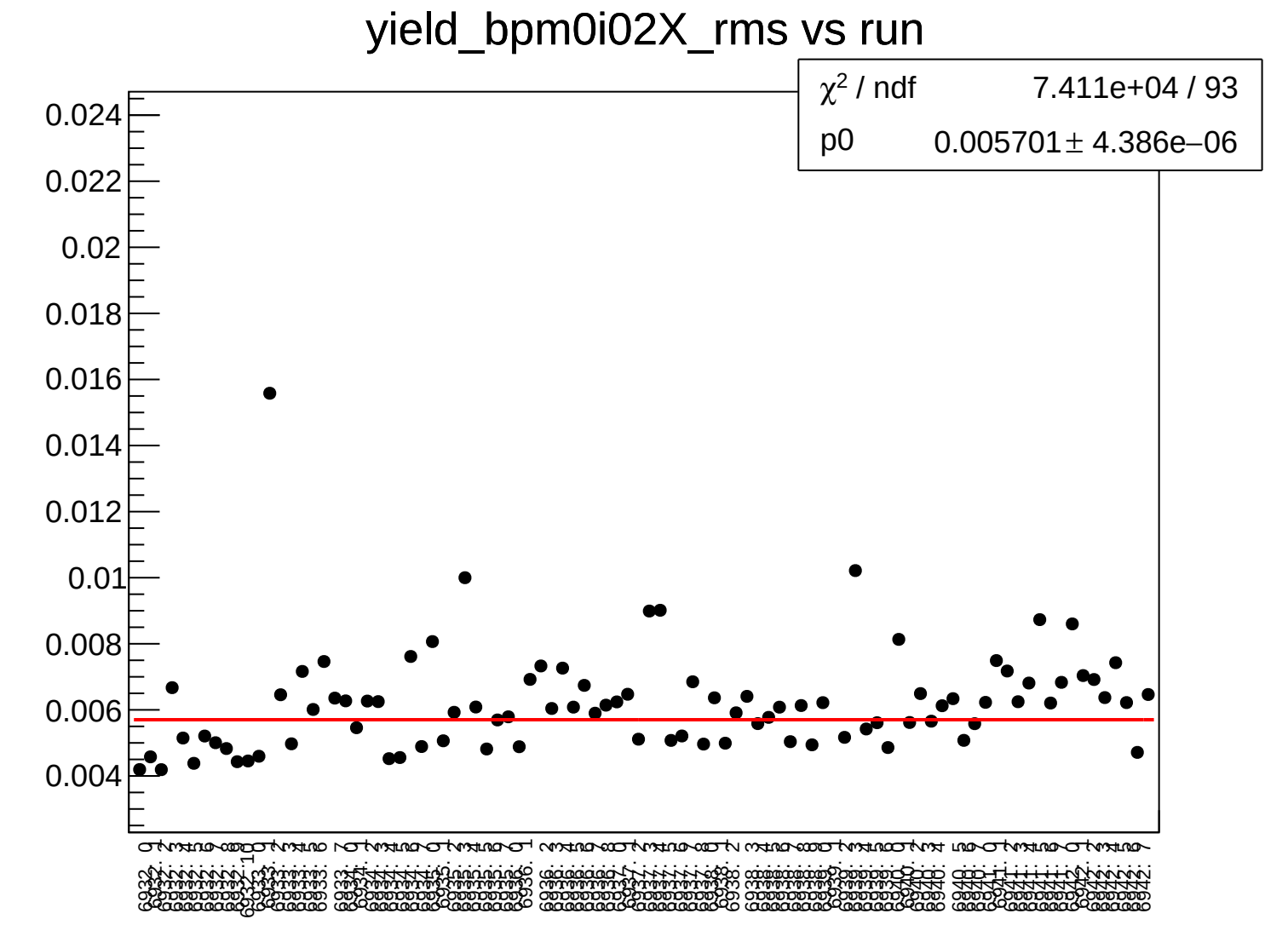

yield_bpm16X_rms vs run
χ² / ndf 2.352e+05 / 93
p0 0.01017 ± 8.226e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

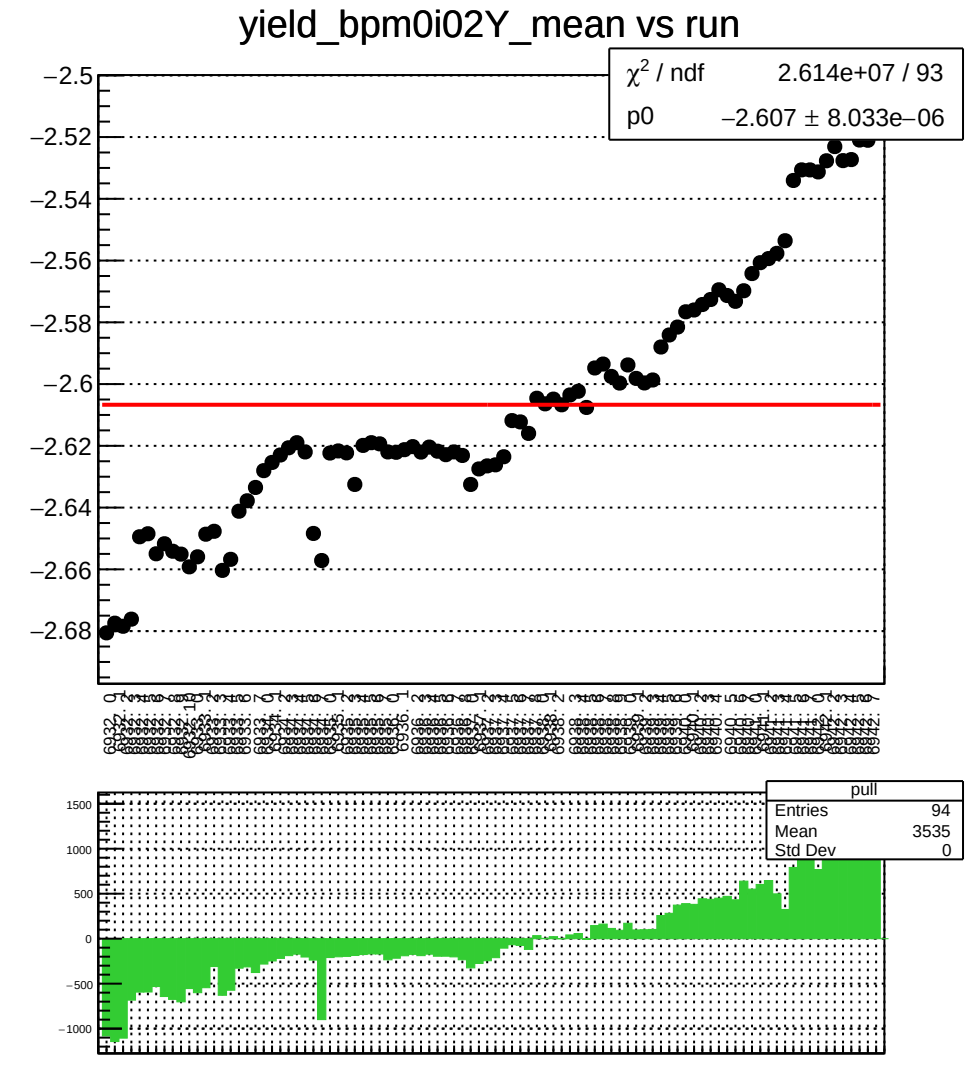

yield_bpm16Y_mean vs run
χ² / ndf 4.057e+04 / 93
p0 −0.2814 ± 5.411e−06
−0.278
−0.28
−0.282
−0.284
−0.286
pull
Entries 94
Mean 539.4
Std Dev 0
60
40
20
0
−20
−40
−60

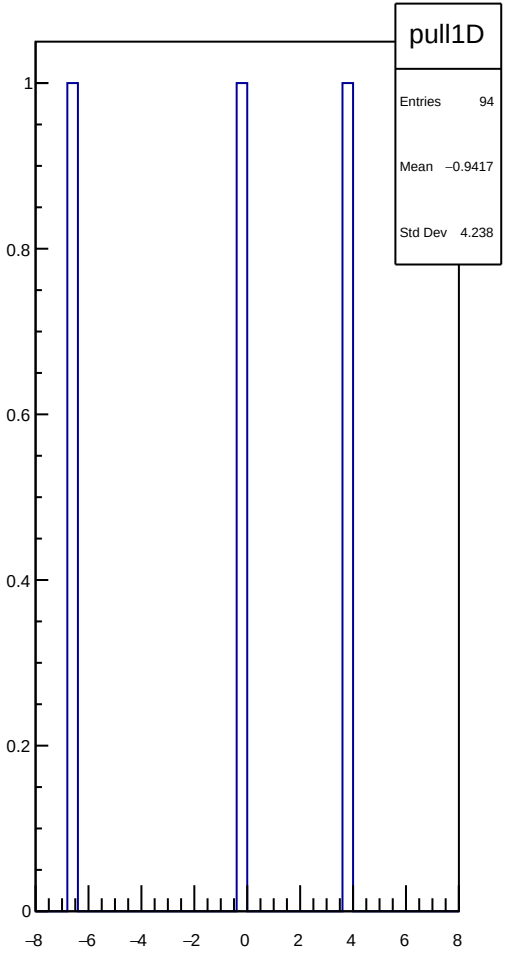

pull1D
Entries 94
Mean 0.2878
Std Dev 4.245
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

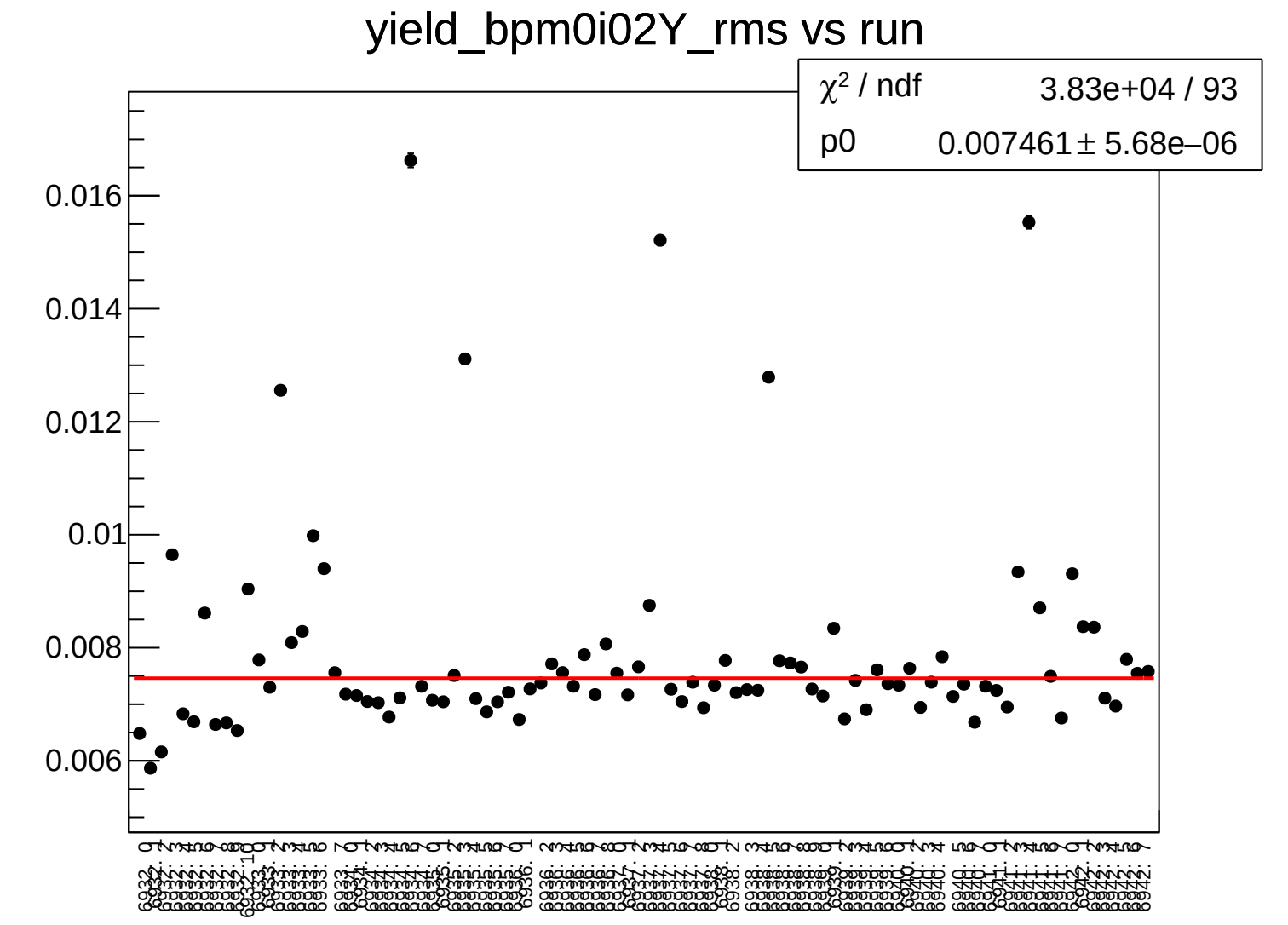

yield_bpm16Y_rms vs run
χ² / ndf 4.527e+04 / 93
p0 0.005016 ± 3.826e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

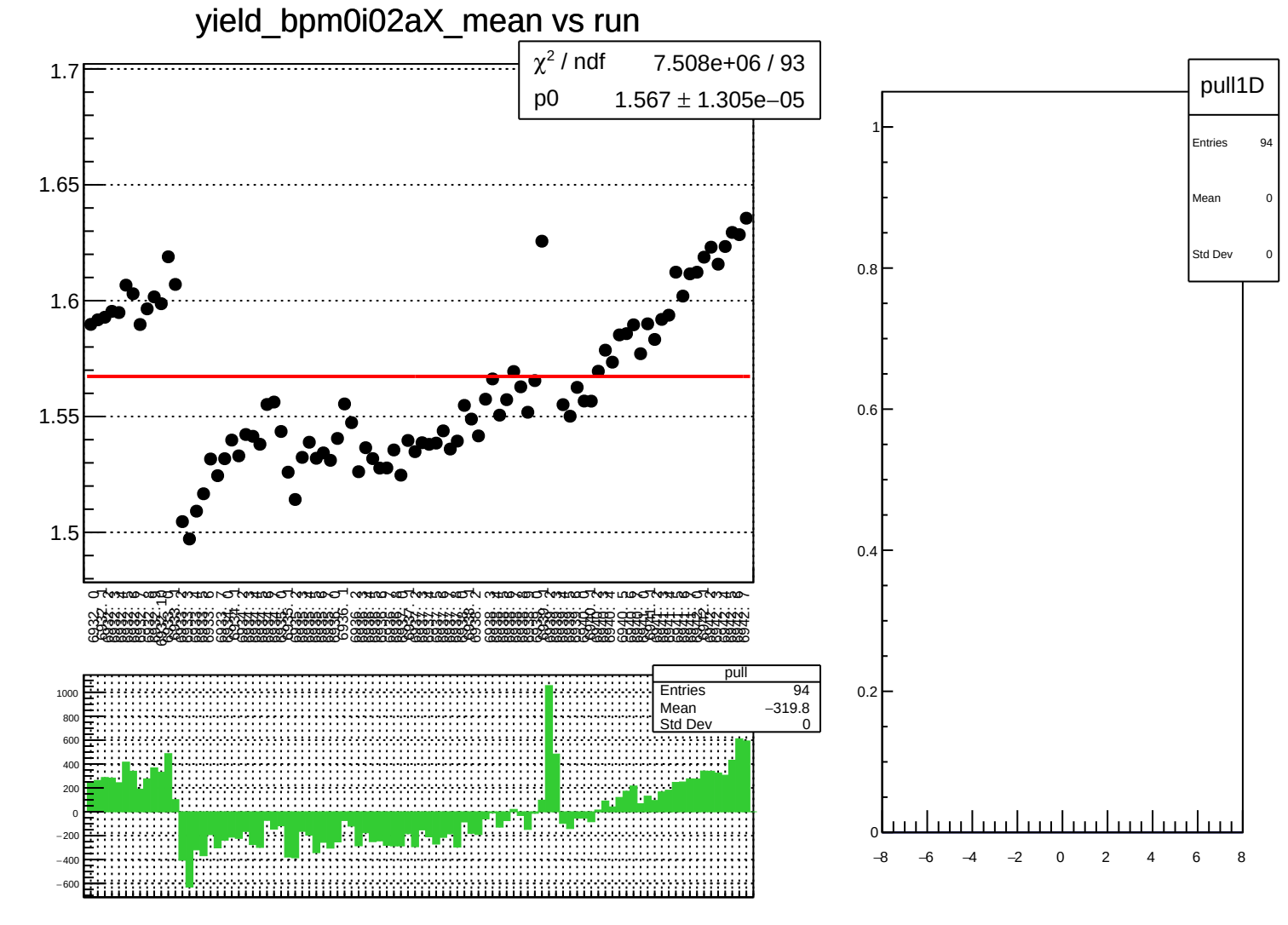

yield_bpm0i02X_mean vs run
χ² / ndf 9.225e+06 / 93
p0 −0.02725 ± 6.203e−06
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 94
Mean 269.4
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 6.712
Std Dev 0.1253
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

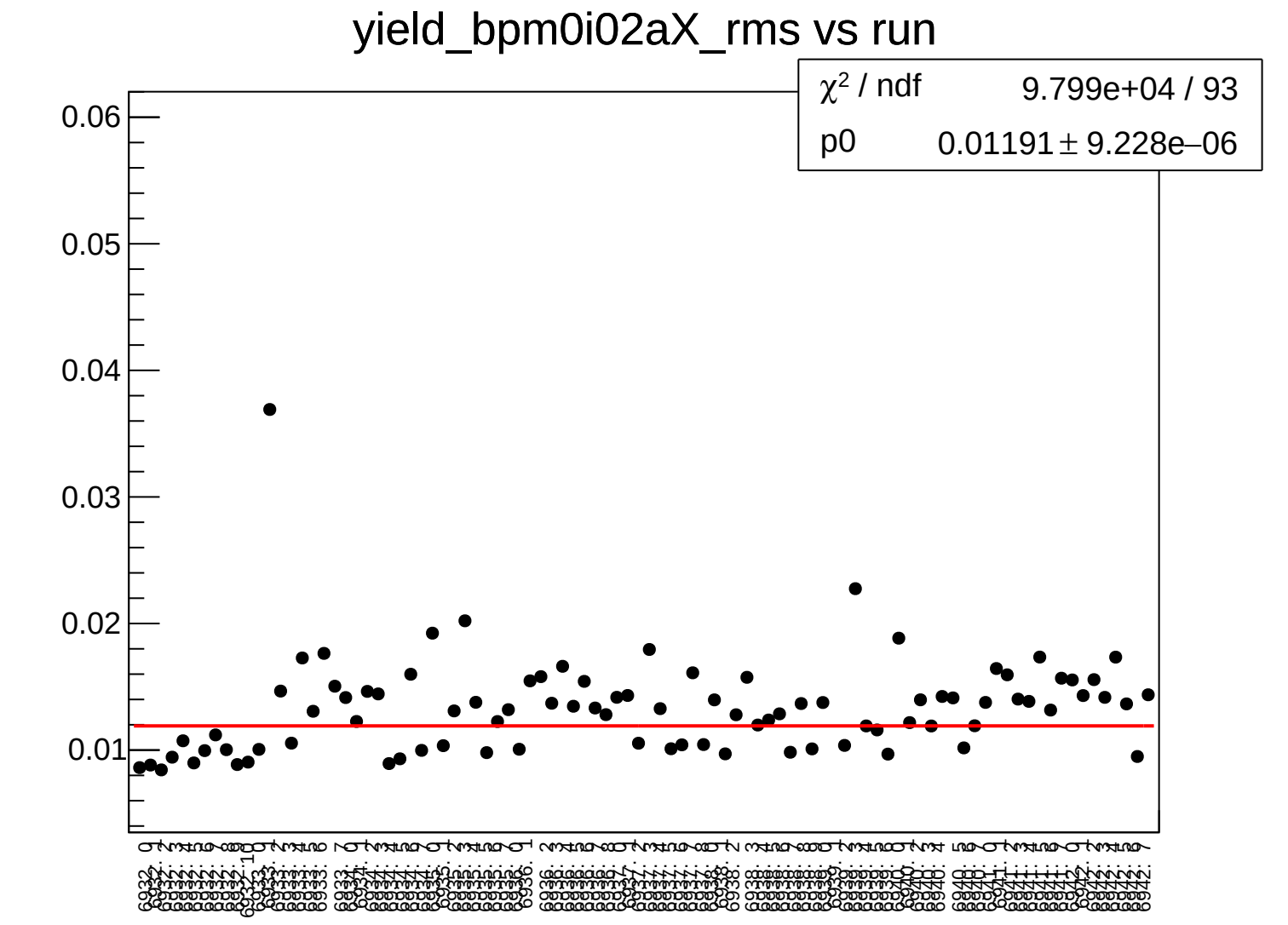

yield_bpm0i02X_rms vs run
χ^2 / ndf 7.411e+04 / 93
p0 0.005701 ± 4.386e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

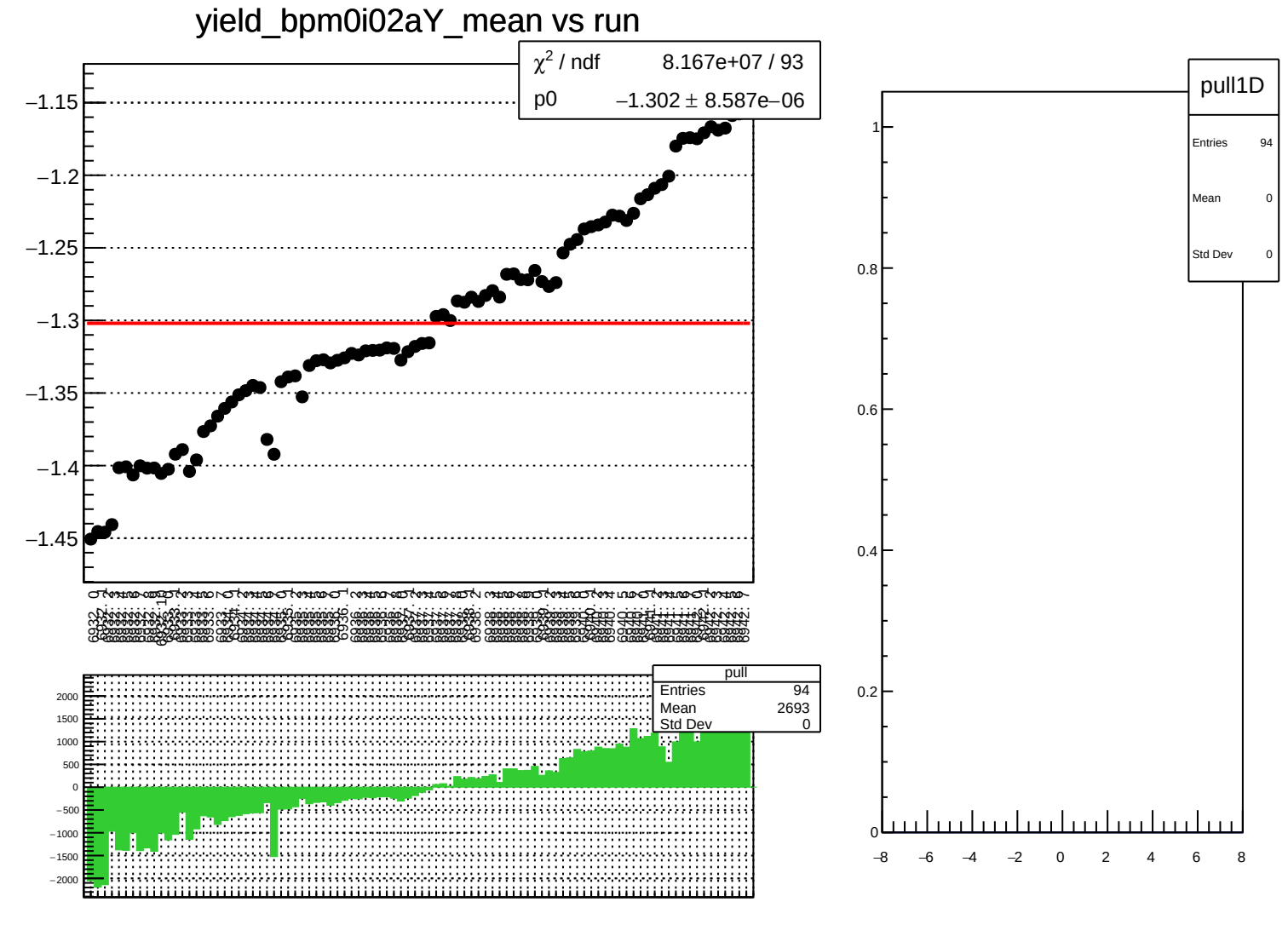

yield_bpm0i02Y_mean vs run
χ² / ndf 2.614e+07 / 93
p0 −2.607 ± 8.033e−06
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
−2.64
−2.66
−2.68
pull
Entries 94
Mean 3535
Std Dev 0
1500
1000
500
0
−500
−1000

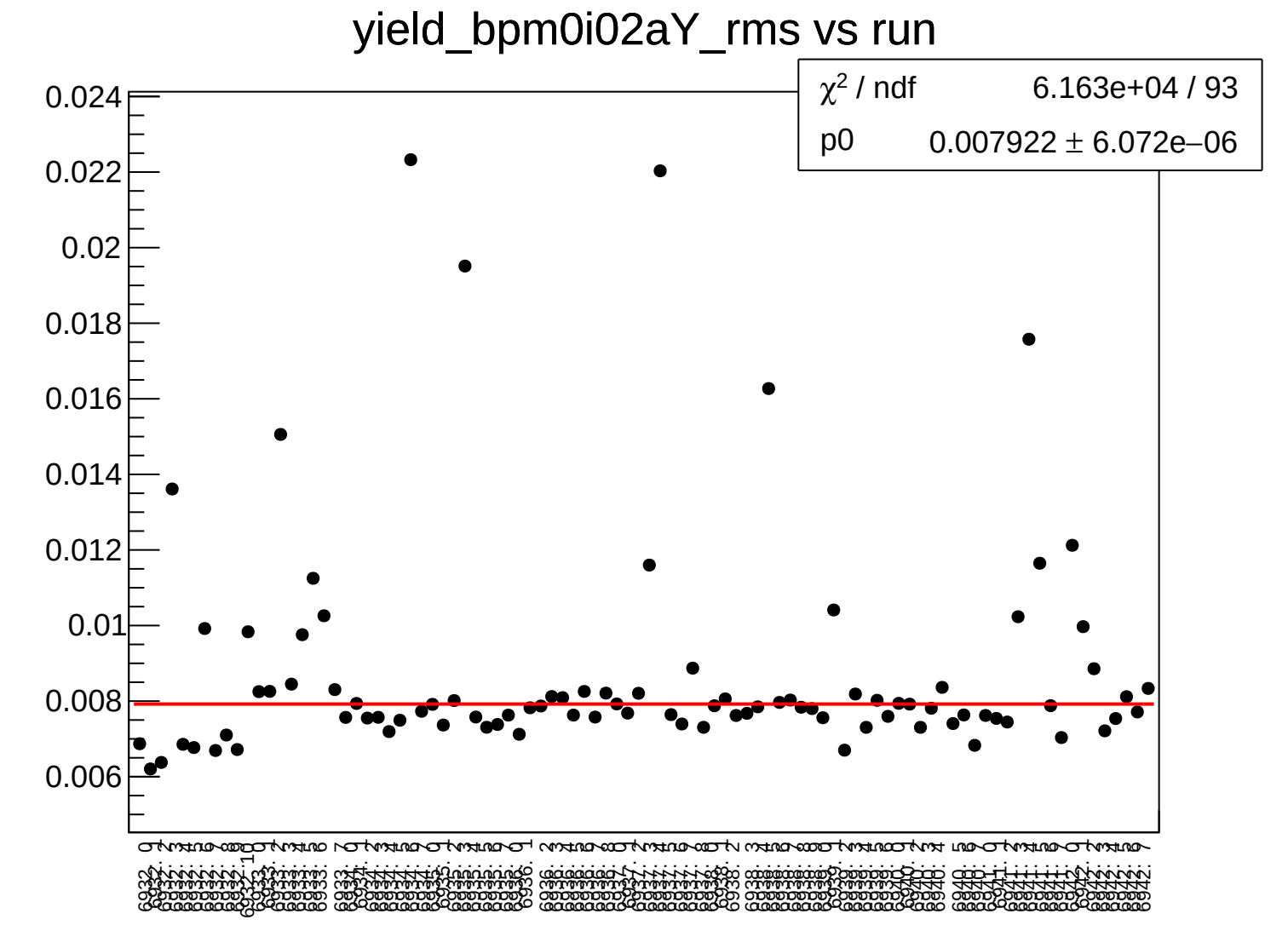

pull1D
Entries 94
Mean −0.9417
Std Dev 4.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

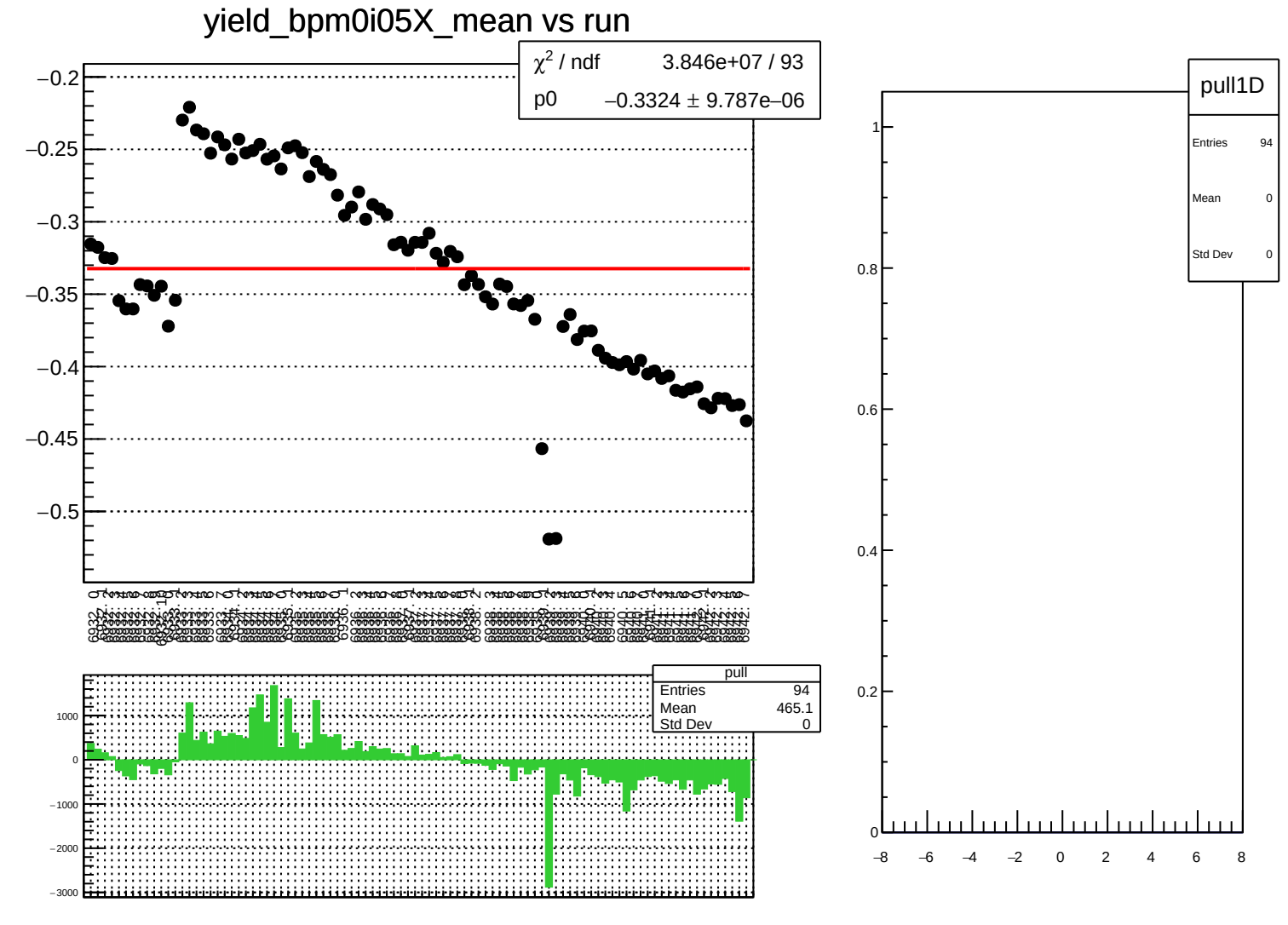

yield_bpm0i02Y_rms vs run
χ² / ndf 3.83e+04 / 93
p0 0.007461 ± 5.68e–06
0.016
0.014
0.012
0.01
0.008
0.006

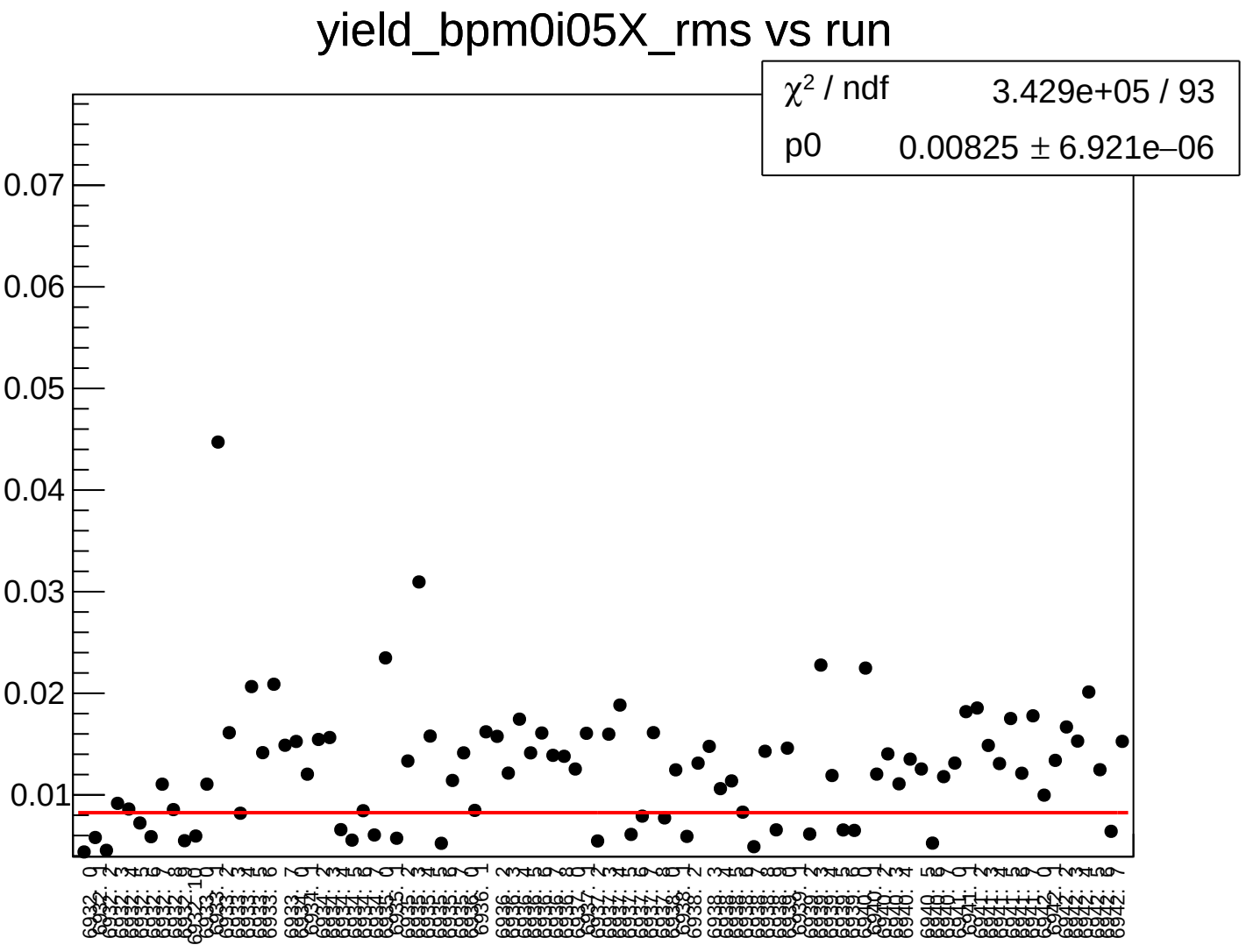

yield_bpm0i02aX_mean vs run
χ² / ndf 7.508e+06 / 93
p0 1.567 ± 1.305e−05
1.7
1.65
1.6
1.55
1.5
pull
Entries 94
Mean −319.8
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

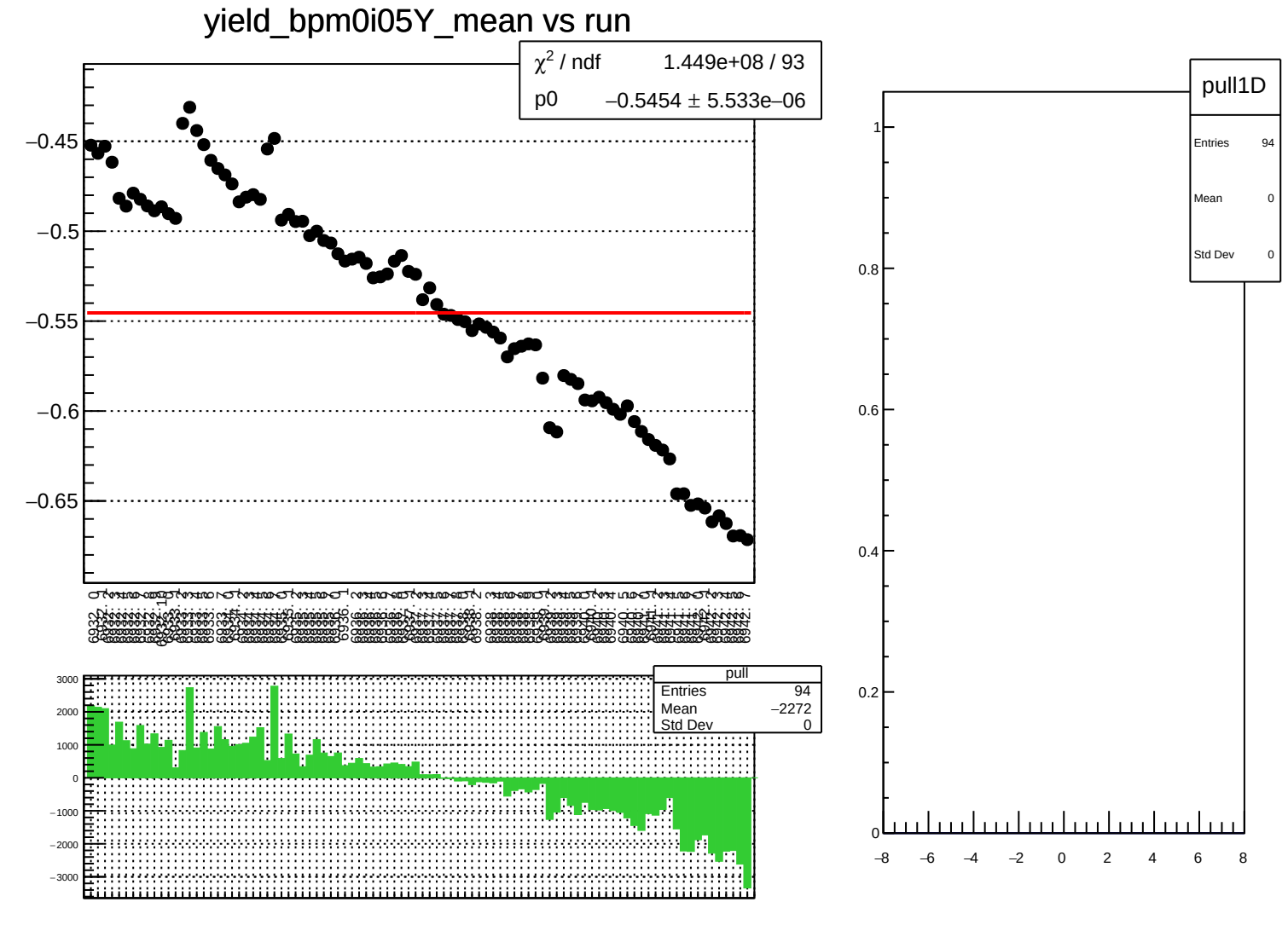

yield_bpm0i02aX_rms vs run
χ^2 / ndf 9.799e+04 / 93
p0 0.01191 ± 9.228e–06
0.06
0.05
0.04
0.03
0.02
0.01

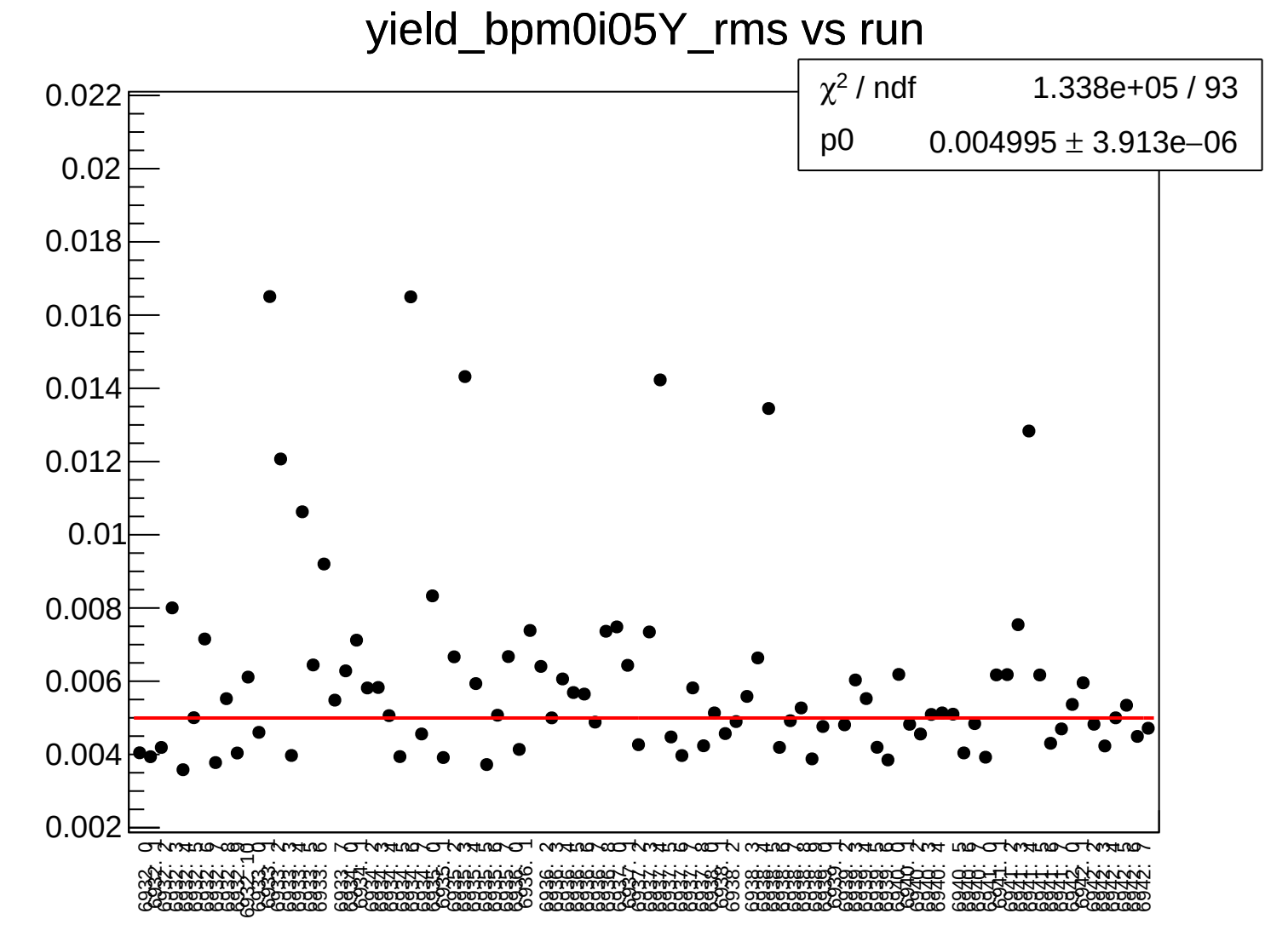

yield_bpm0i02aY_mean vs run
χ² / ndf 8.167e+07 / 93
p0 −1.302 ± 8.587e−06
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 94
Mean 2693
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

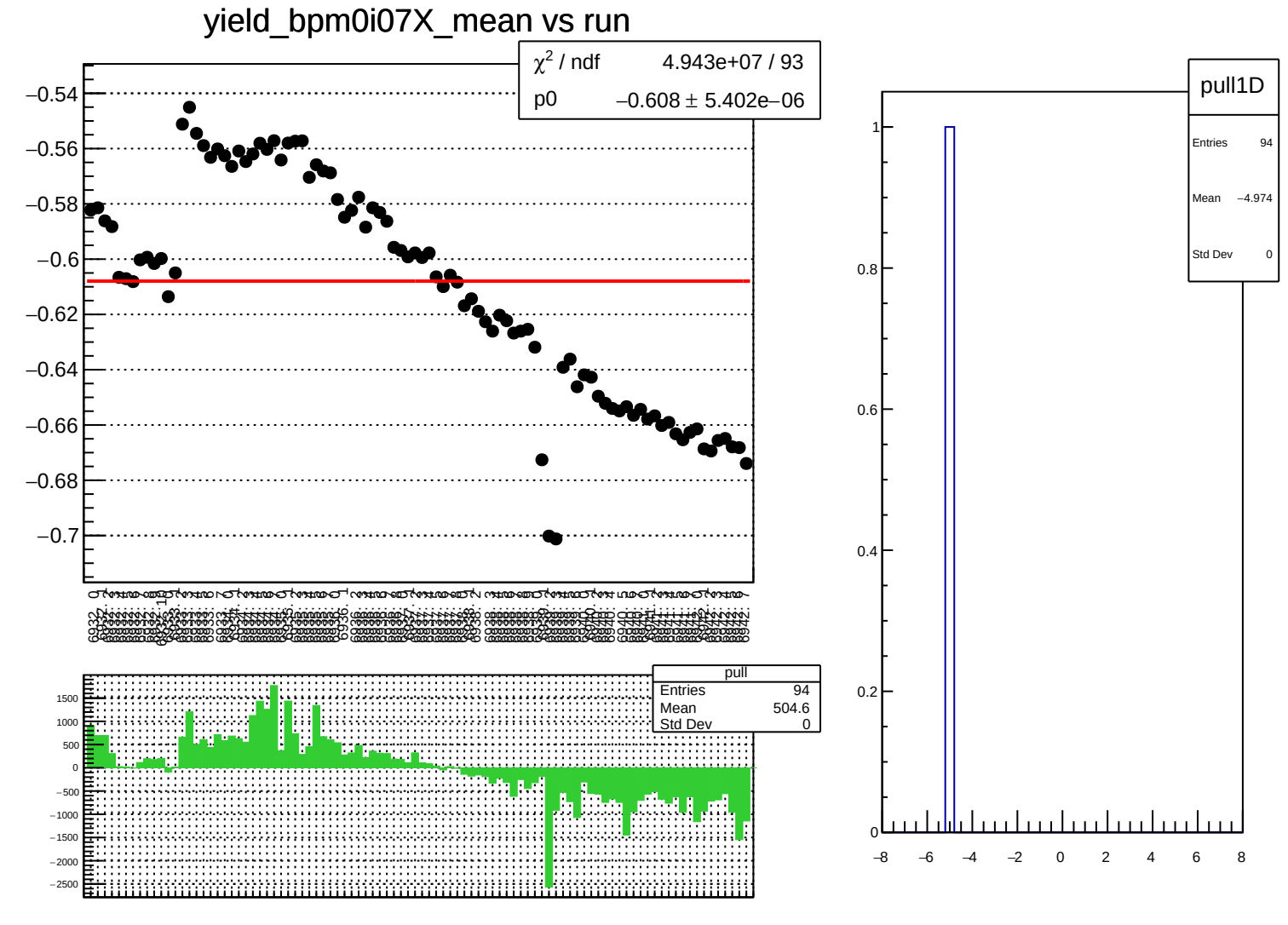

yield_bpm0i02aY_rms vs run
χ² / ndf 6.163e+04 / 93
p0 0.007922 ± 6.072e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

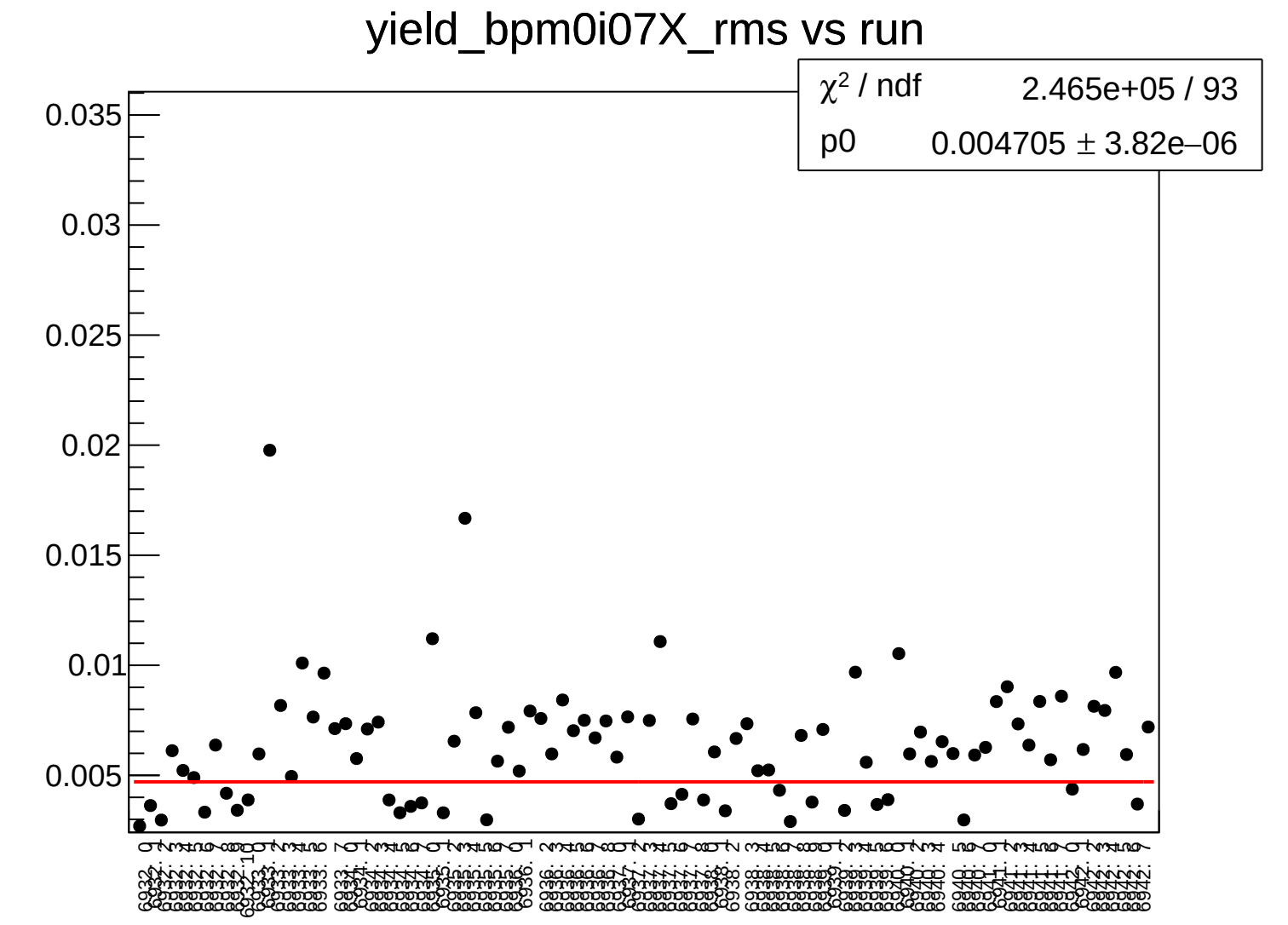

yield_bpm0i05X_mean vs run
χ² / ndf 3.846e+07 / 93
p0 −0.3324 ± 9.787e−06
pull
Entries 94
Mean 465.1
Std Dev 0
pull1D
Entries 94
Mean 0
Std Dev 0

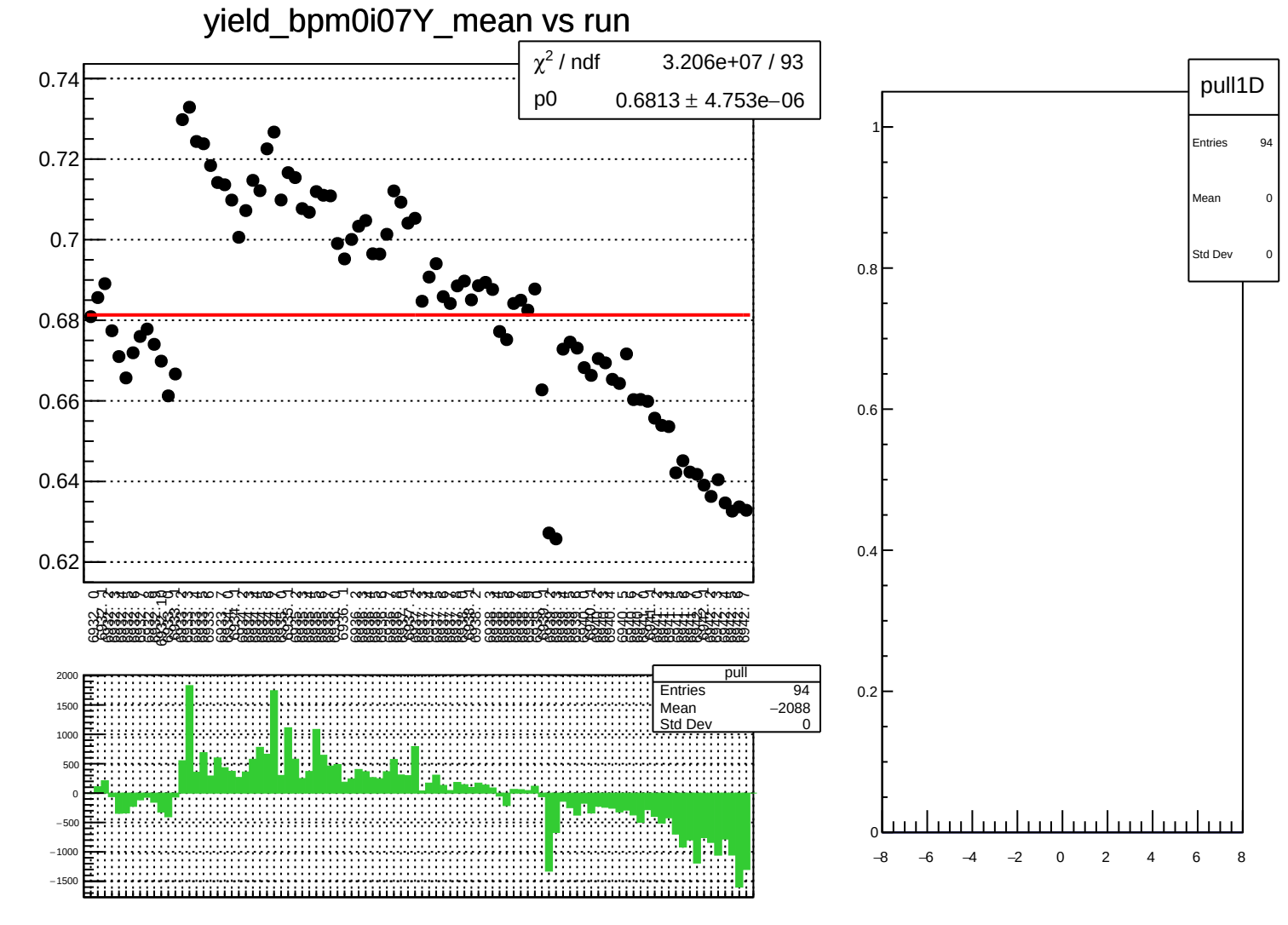

yield_bpm0i05X_rms vs run
χ² / ndf 3.429e+05 / 93
p0 0.00825 ± 6.921e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

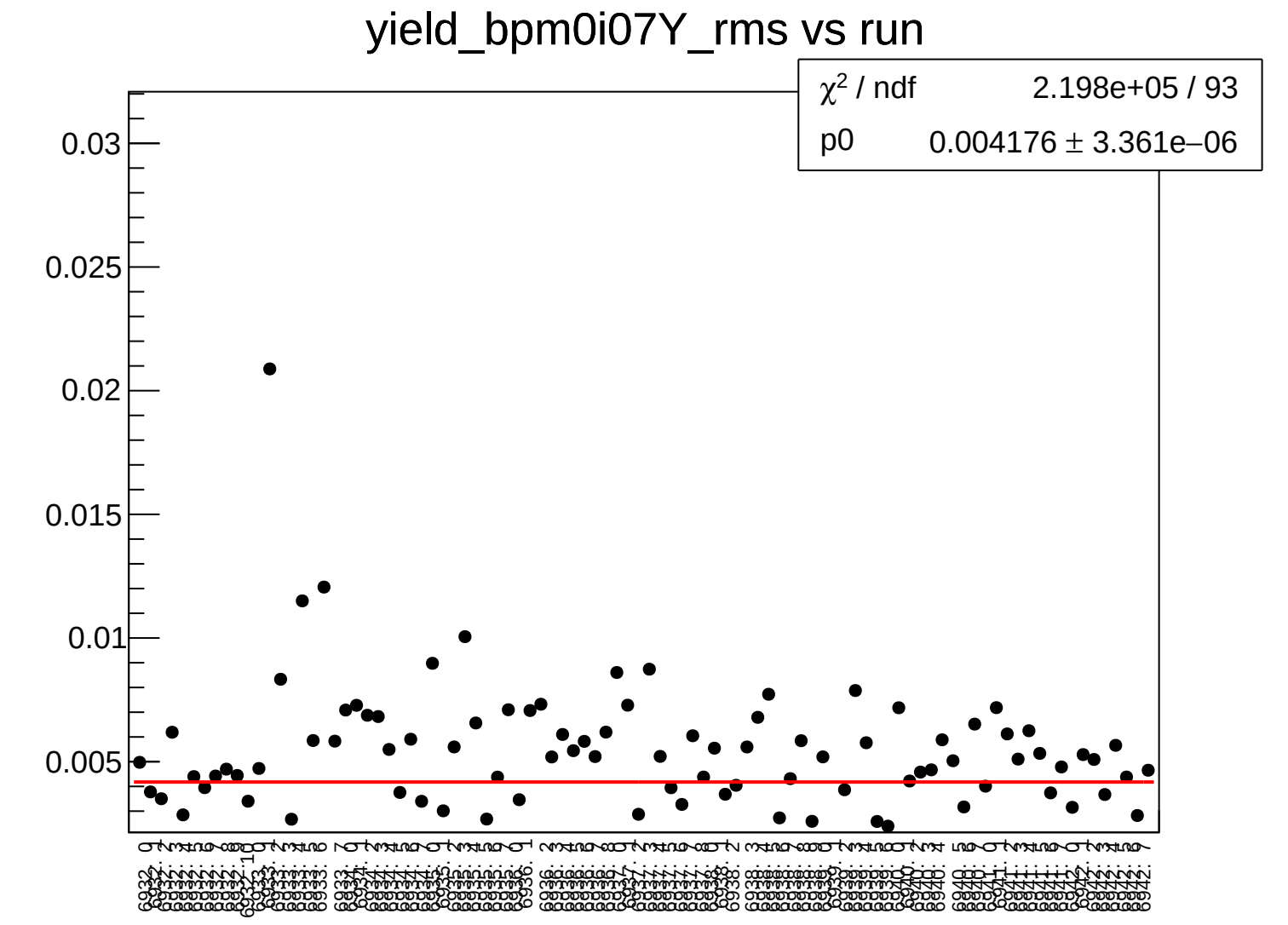

yield_bpm0i05Y_mean vs run
χ² / ndf 1.449e+08 / 93
p0 −0.5454 ± 5.533e−06
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 94
Mean −2272
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

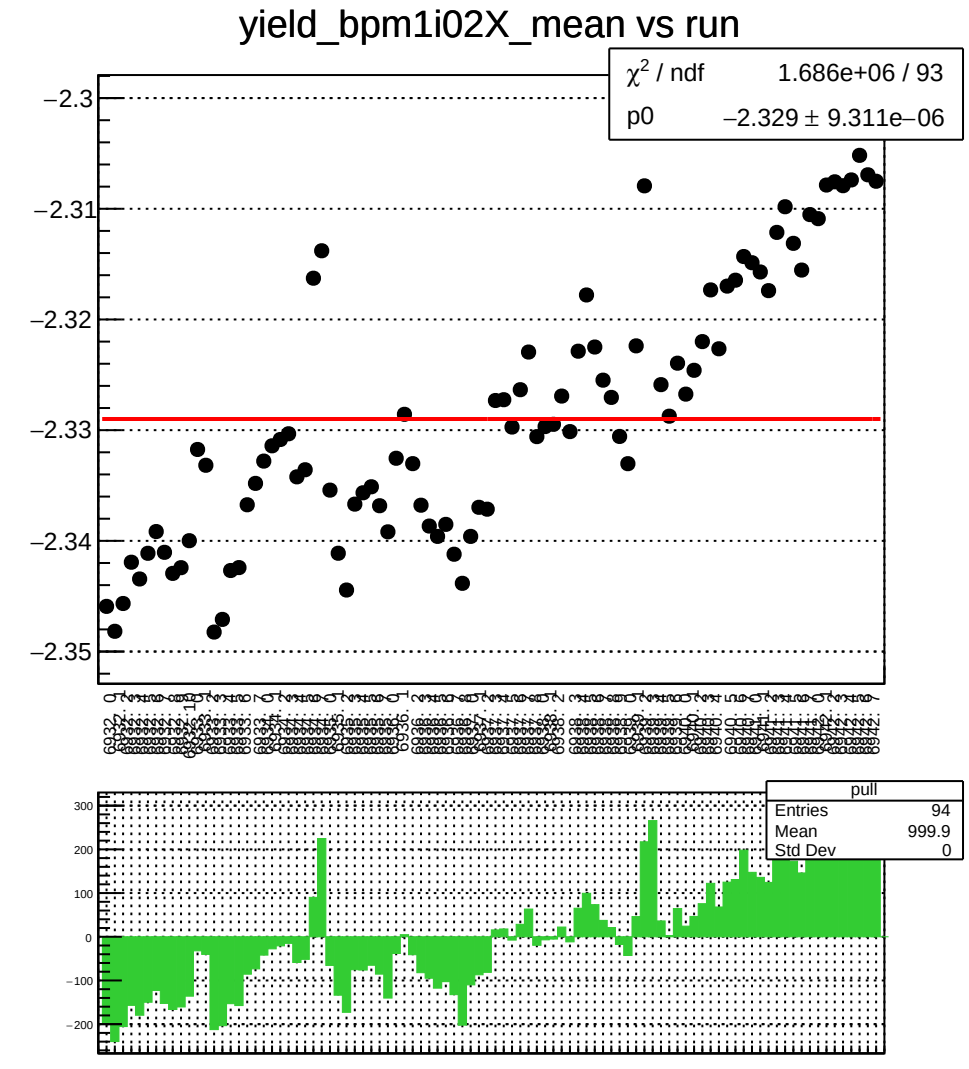

yield_bpm0i05Y_rms vs run
χ² / ndf 1.338e+05 / 93
p0 0.004995 ± 3.913e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

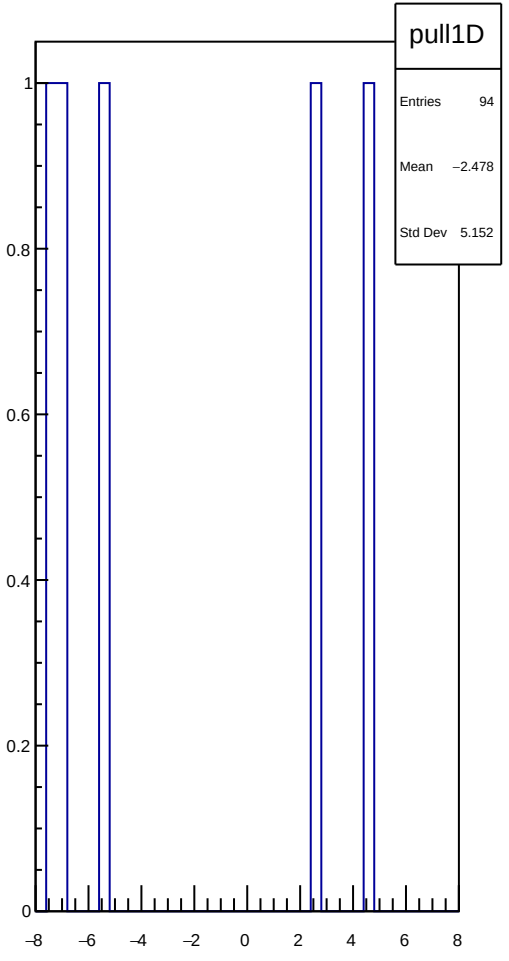

yield_bpm0i07X_mean vs run
χ² / ndf 4.943e+07 / 93
p0 −0.608 ± 5.402e−06
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
−0.7
pull
Entries 94
Mean 504.6
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 94
Mean −4.974
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

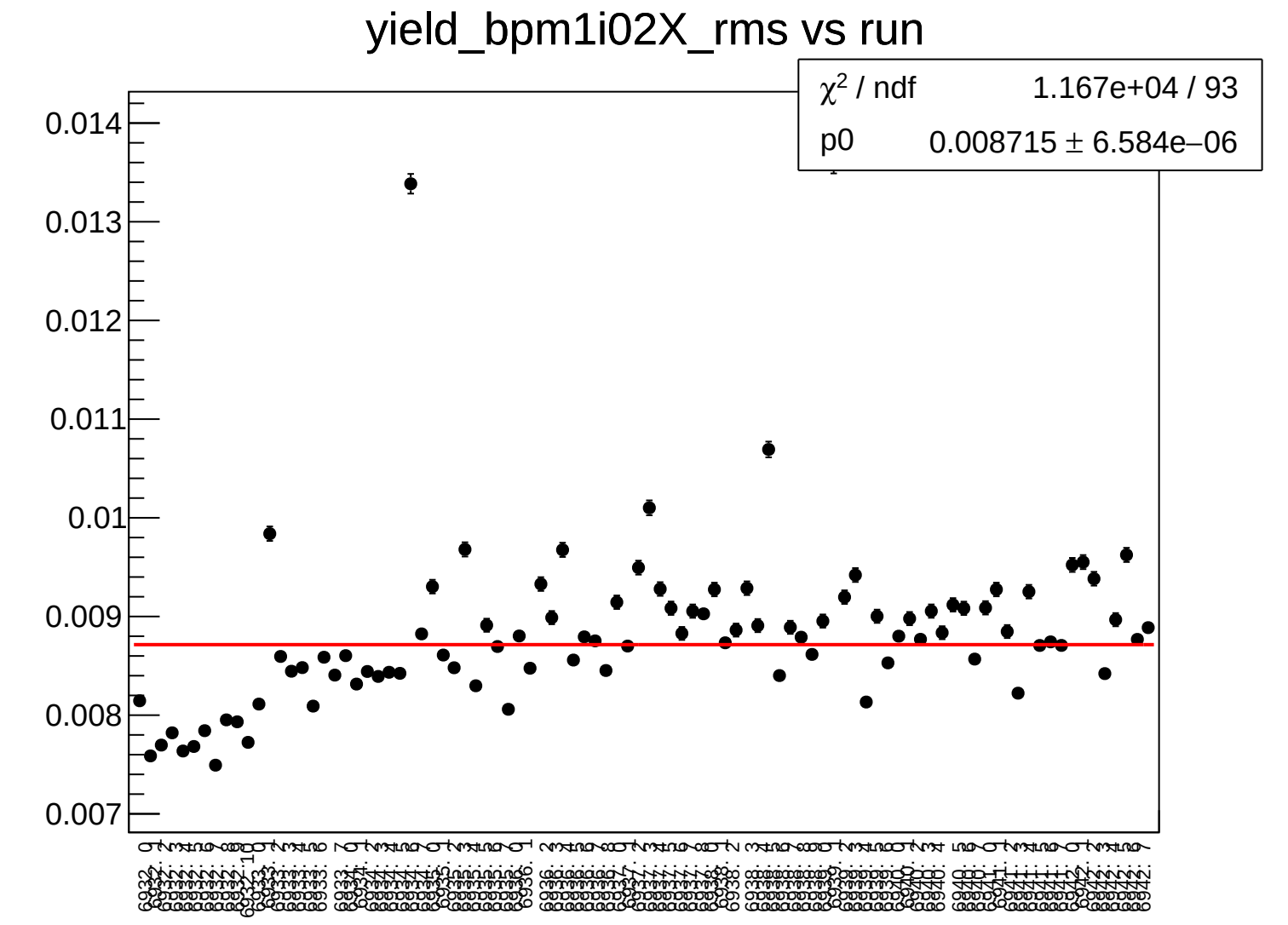

yield_bpm0i07X_rms vs run
χ² / ndf 2.465e+05 / 93
p0 0.004705 ± 3.82e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

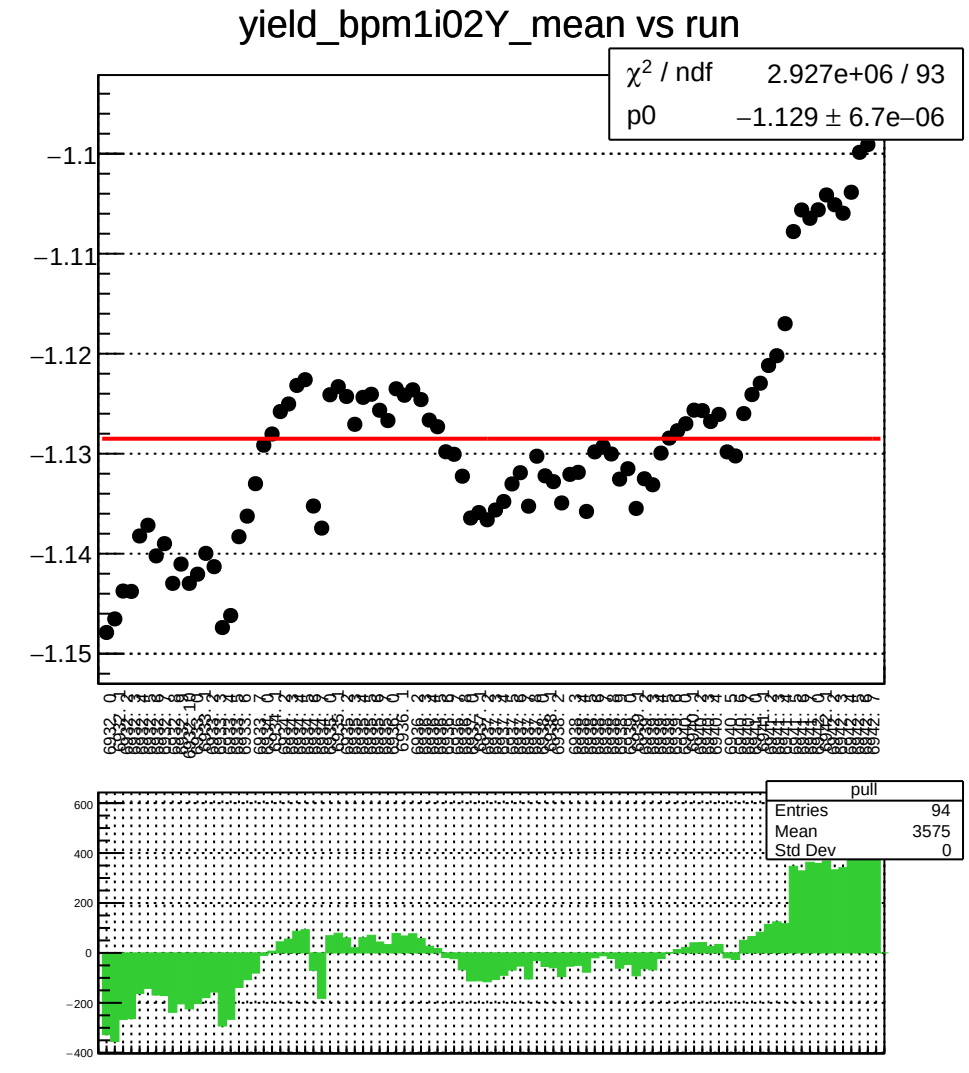

yield_bpm0i07Y_mean vs run
χ² / ndf 3.206e+07 / 93
p0 0.6813 ± 4.753e−06
0.74
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 94
Mean −2088
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

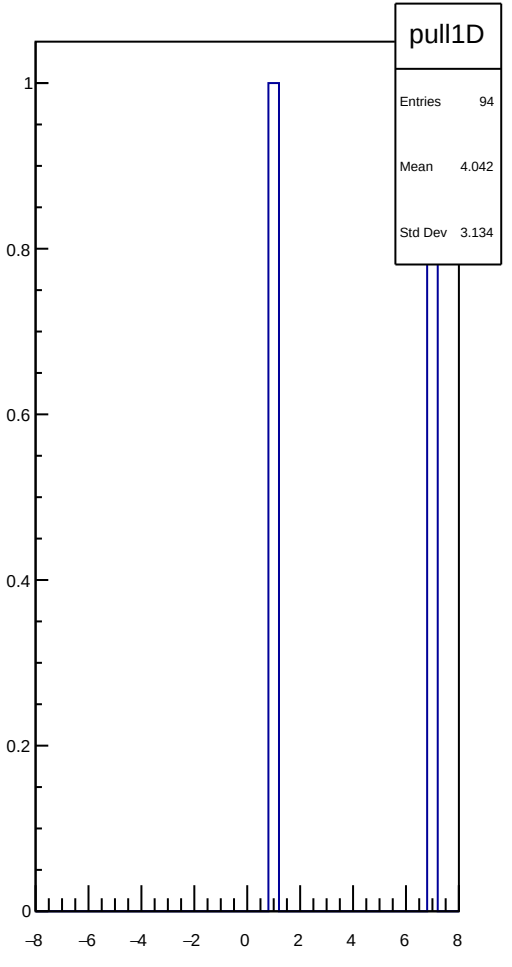

yield_bpm0i07Y_rms vs run
χ² / ndf 2.198e+05 / 93
p0 0.004176 ± 3.361e−06
0.03
0.025
0.02
0.015
0.01
0.005

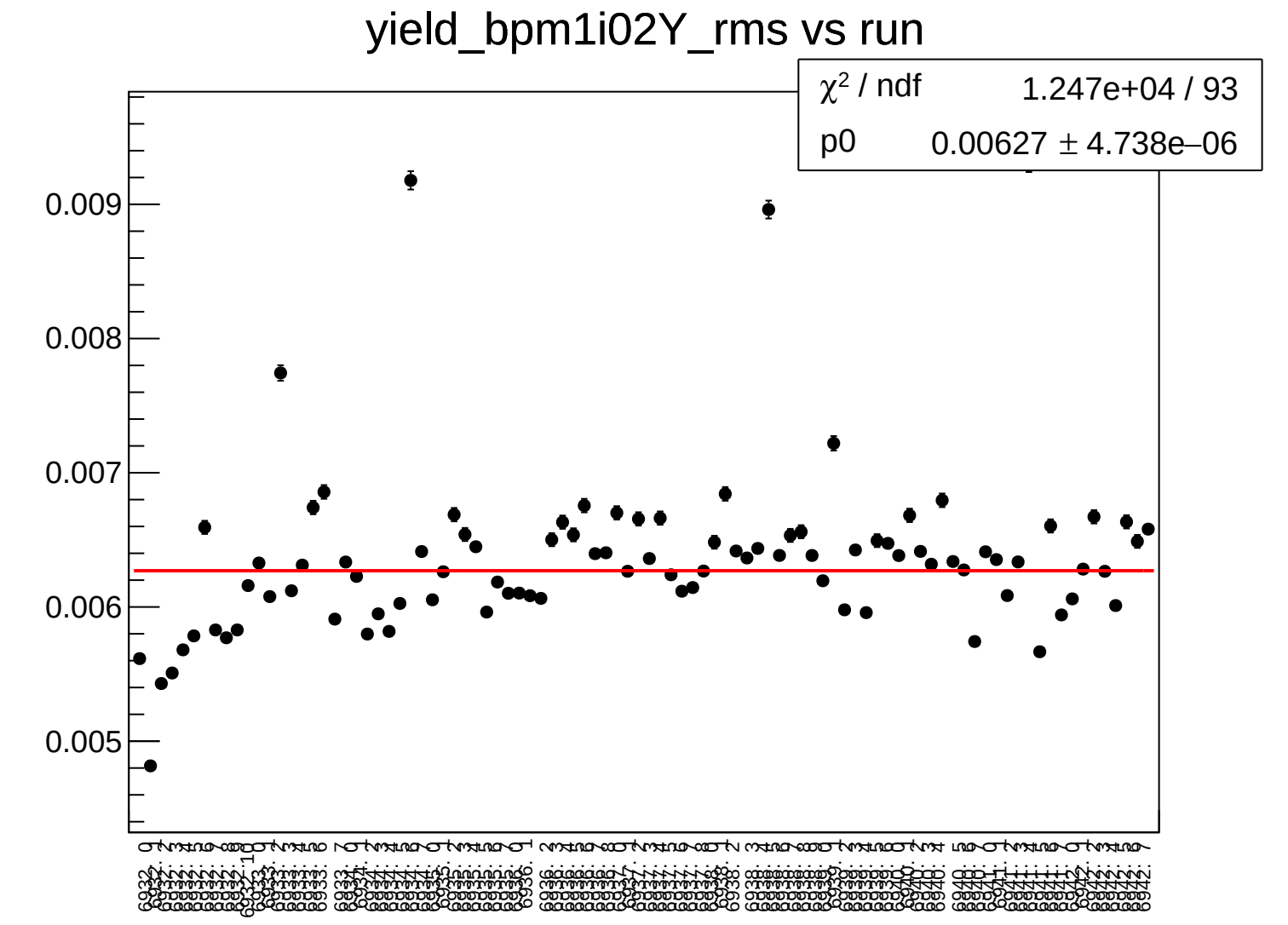

yield_bpm1i02X_mean vs run
χ² / ndf 1.686e+06 / 93
p0 −2.329 ± 9.311e−06
−2.3
−2.31
−2.32
−2.33
−2.34
−2.35
pull
Entries 94
Mean 999.9
Std Dev 0
300
200
100
0
−100
−200

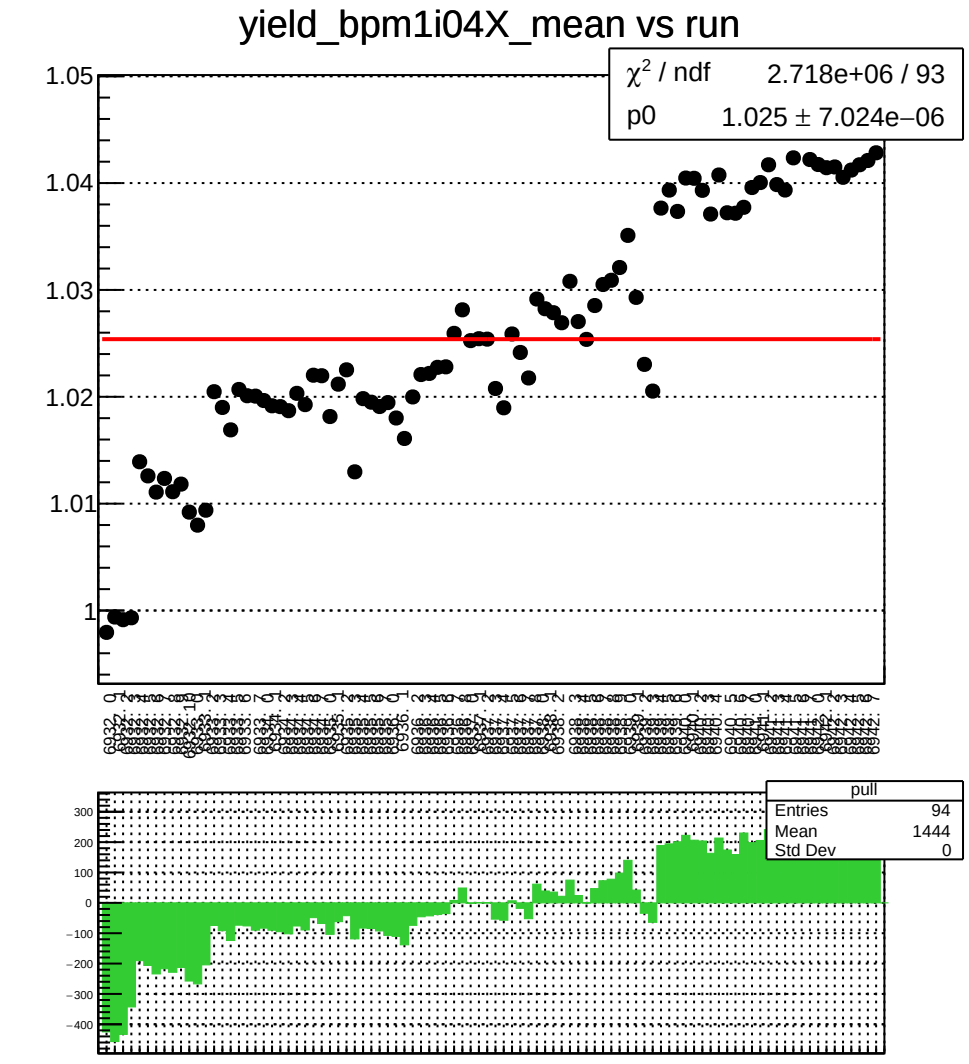

pull1D
Entries 94
Mean −2.478
Std Dev 5.152
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

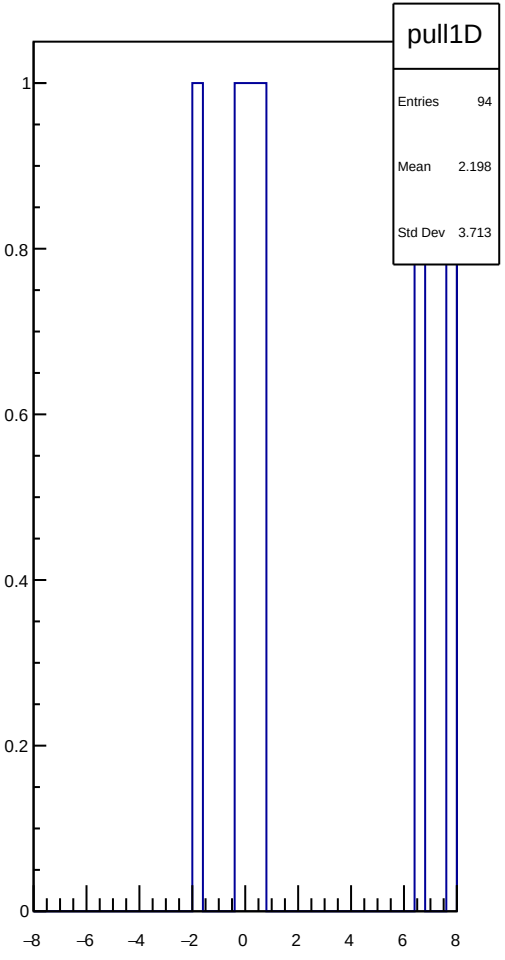

yield_bpm1i02X_rms vs run
χ² / ndf 1.167e+04 / 93
p0 0.008715 ± 6.584e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

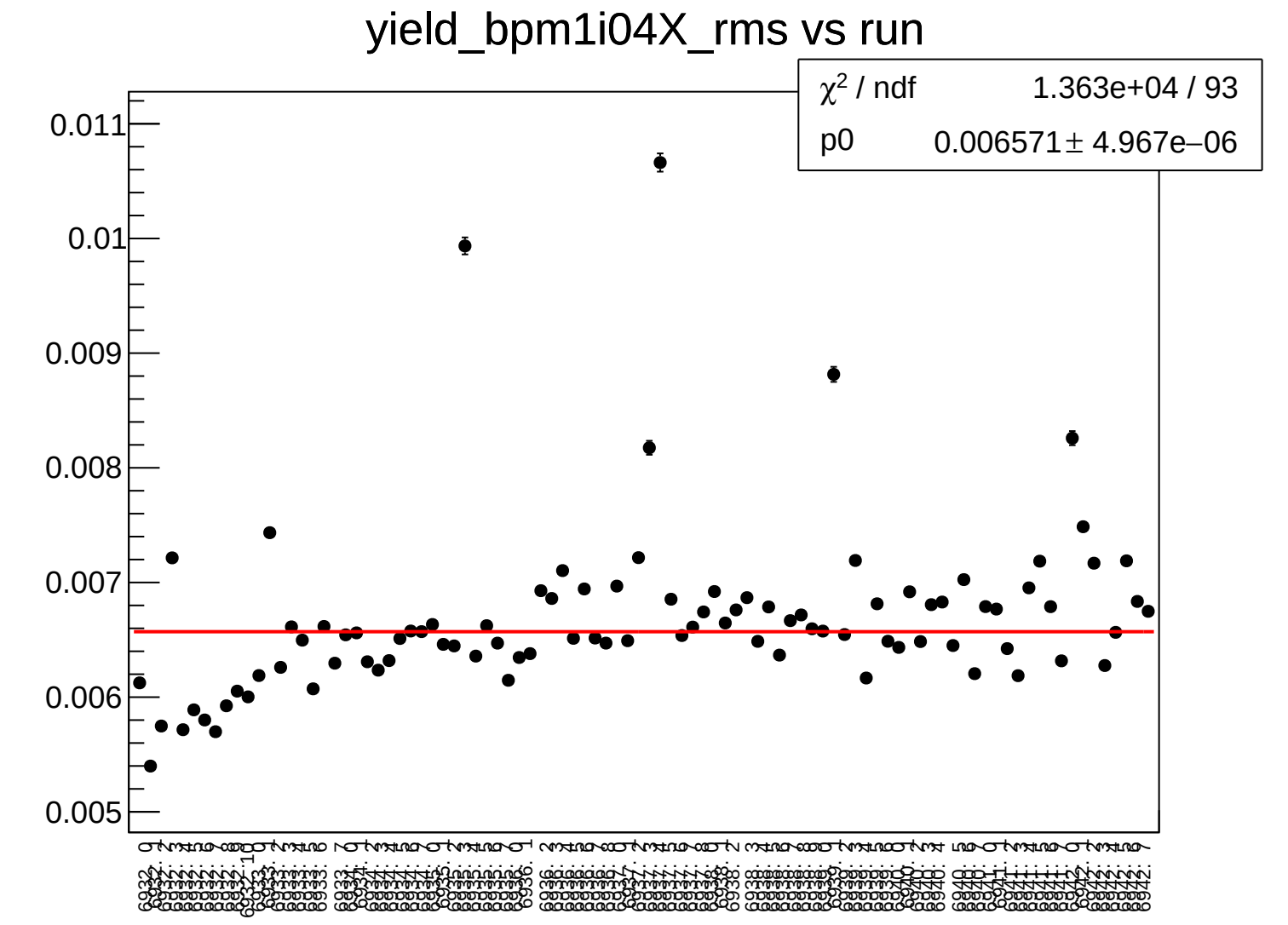

yield_bpm1i02Y_mean vs run
χ² / ndf 2.927e+06 / 93
p0 −1.129 ± 6.7e−06
−1.1
−1.11
−1.12
−1.13
−1.14
−1.15
pull
Entries 94
Mean 3575
Std Dev 0
600
400
200
0
−200
−400

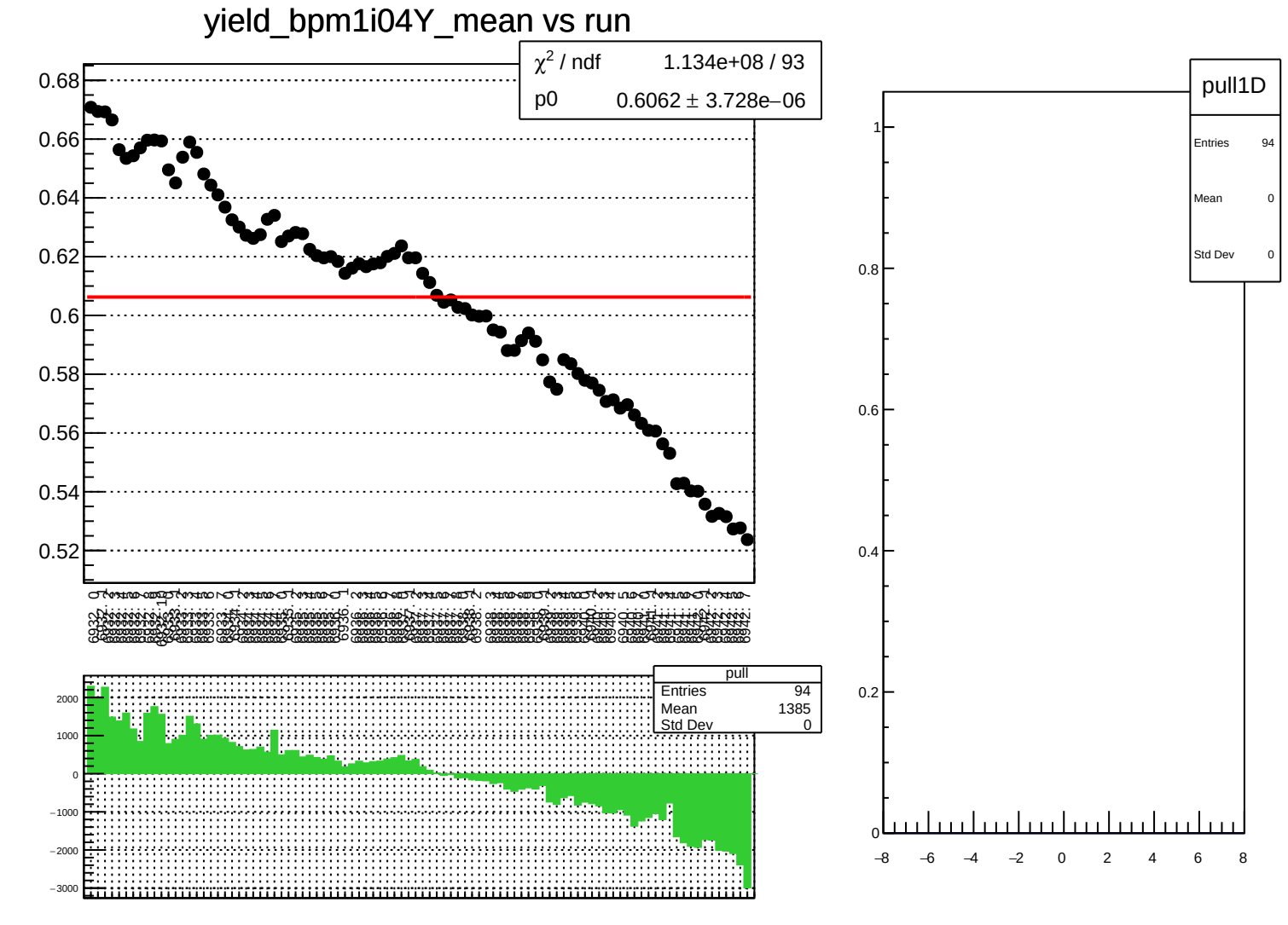

pull1D
Entries 94
Mean 4.042
Std Dev 3.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

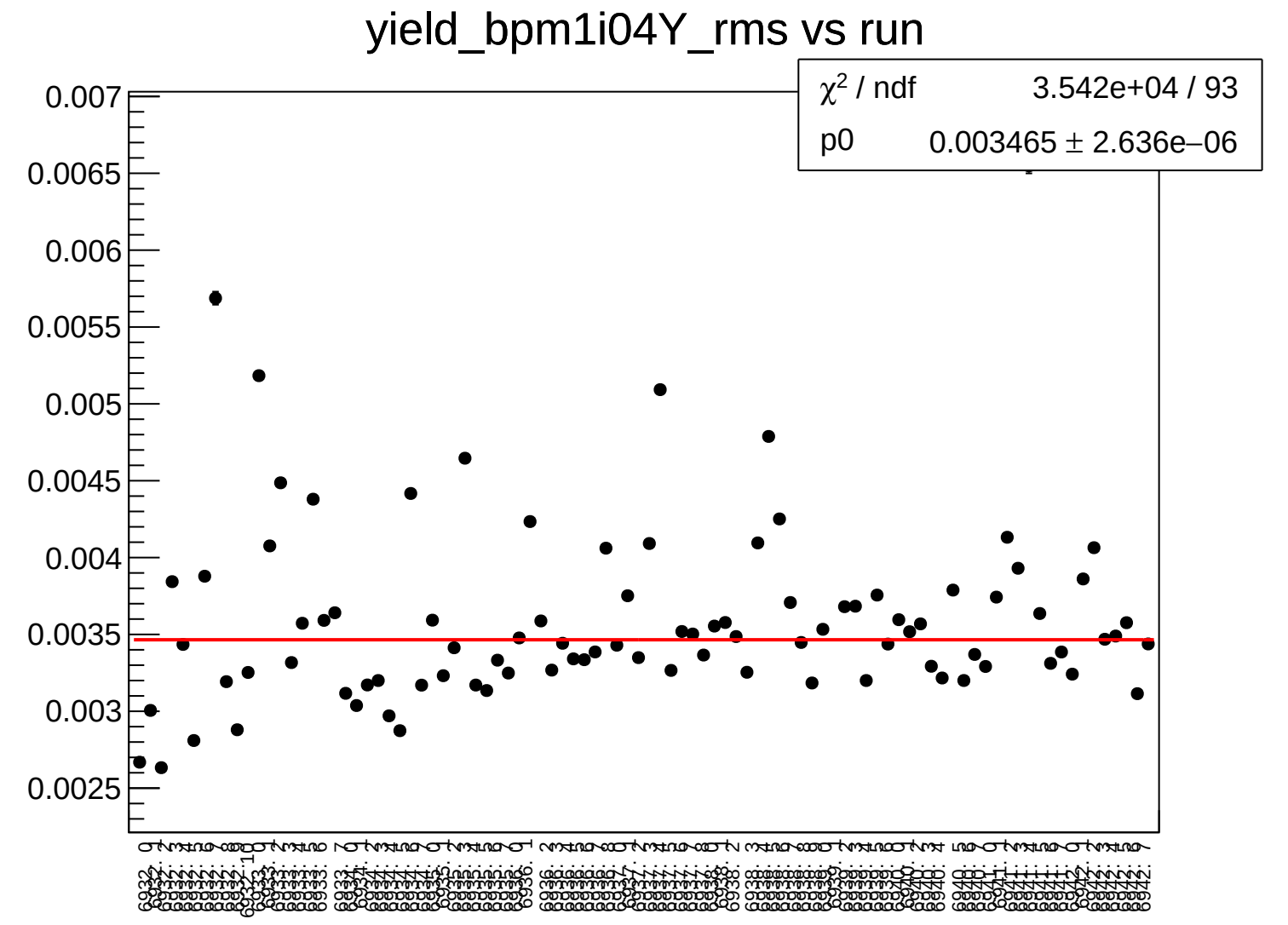

yield_bpm1i02Y_rms vs run
χ² / ndf 1.247e+04 / 93
p0 0.00627 ± 4.738e–06
0.009
0.008
0.007
0.006
0.005

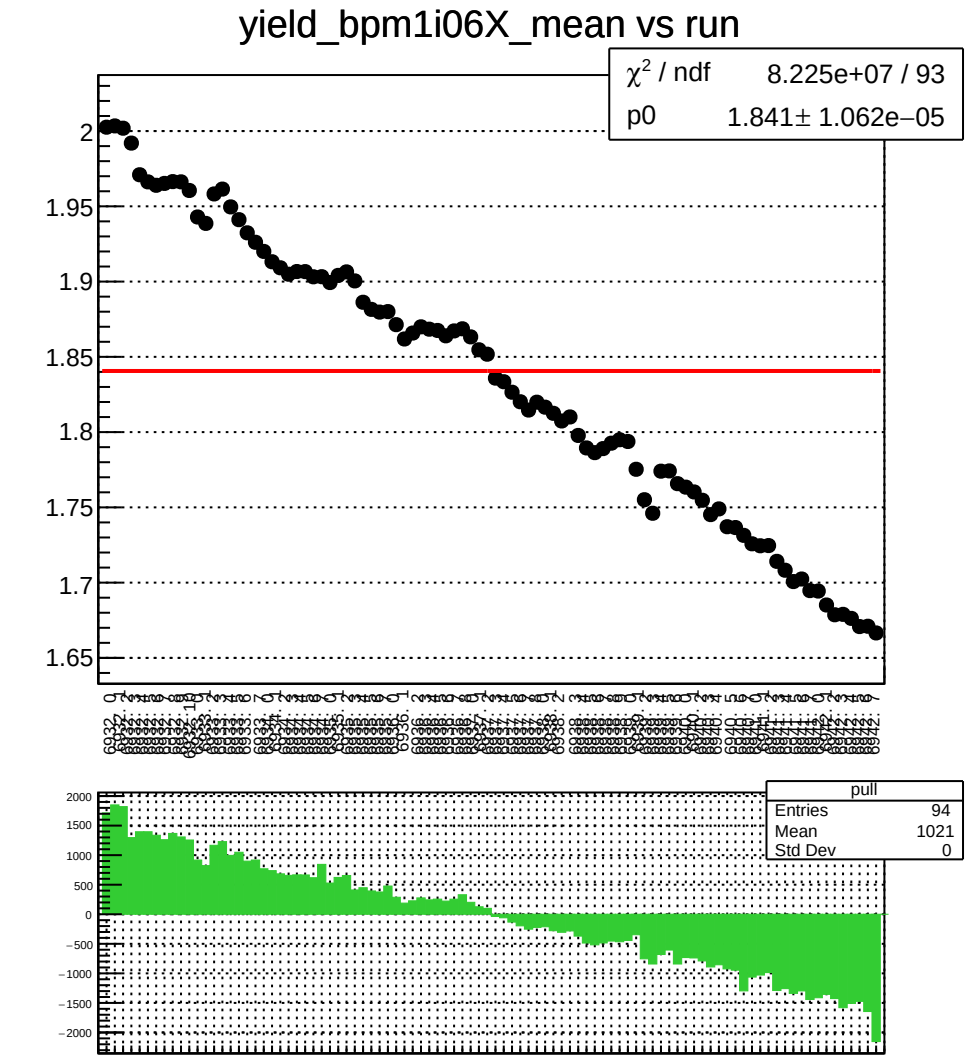

yield_bpm1i04X_mean vs run
χ² / ndf 2.718e+06 / 93
p0 1.025 ± 7.024e−06
1.05
1.04
1.03
1.02
1.01
1
pull
Entries 94
Mean 1444
Std Dev 0
300
200
100
0
−100
−200
−300
−400

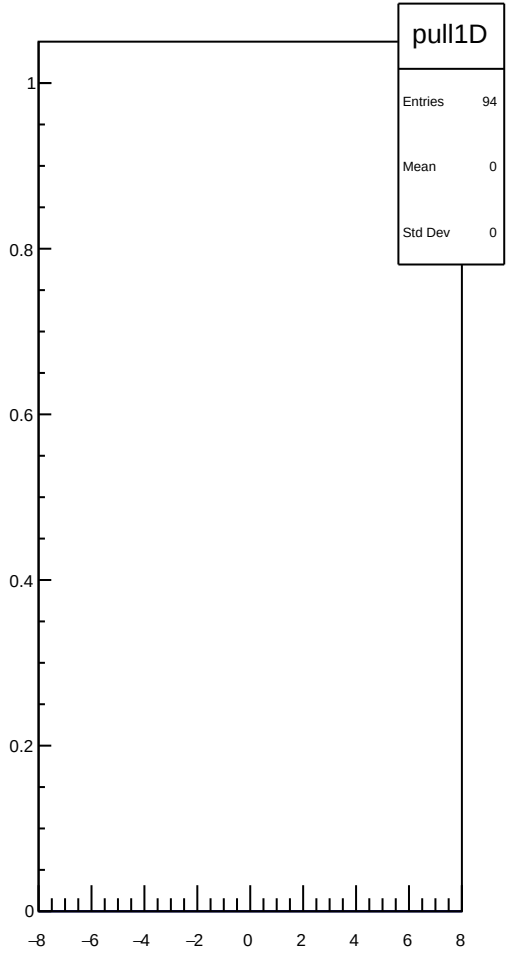

pull1D
Entries 94
Mean 2.198
Std Dev 3.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

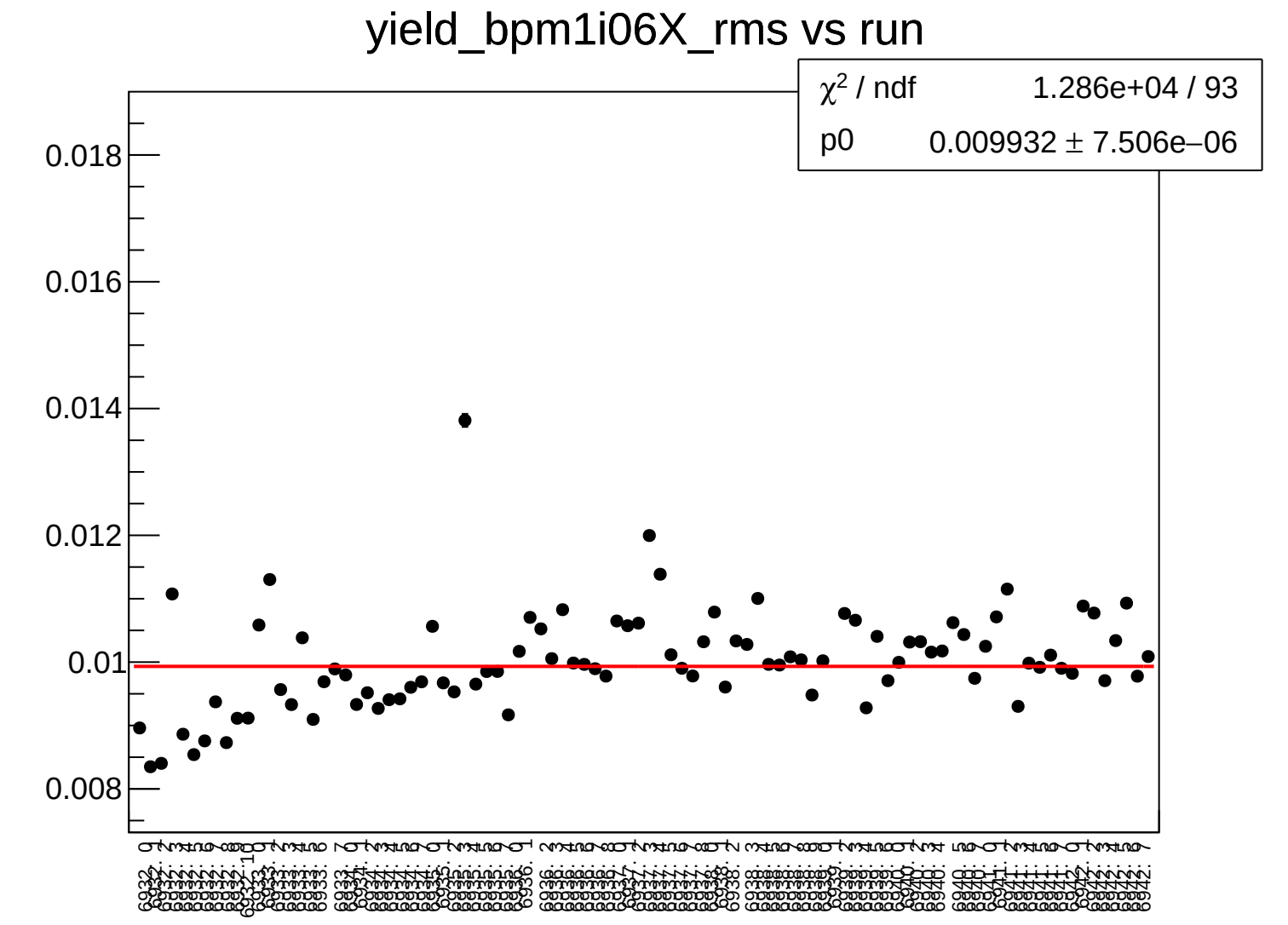

yield_bpm1i04X_rms vs run
χ² / ndf 1.363e+04 / 93
p0 0.006571 ± 4.967e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

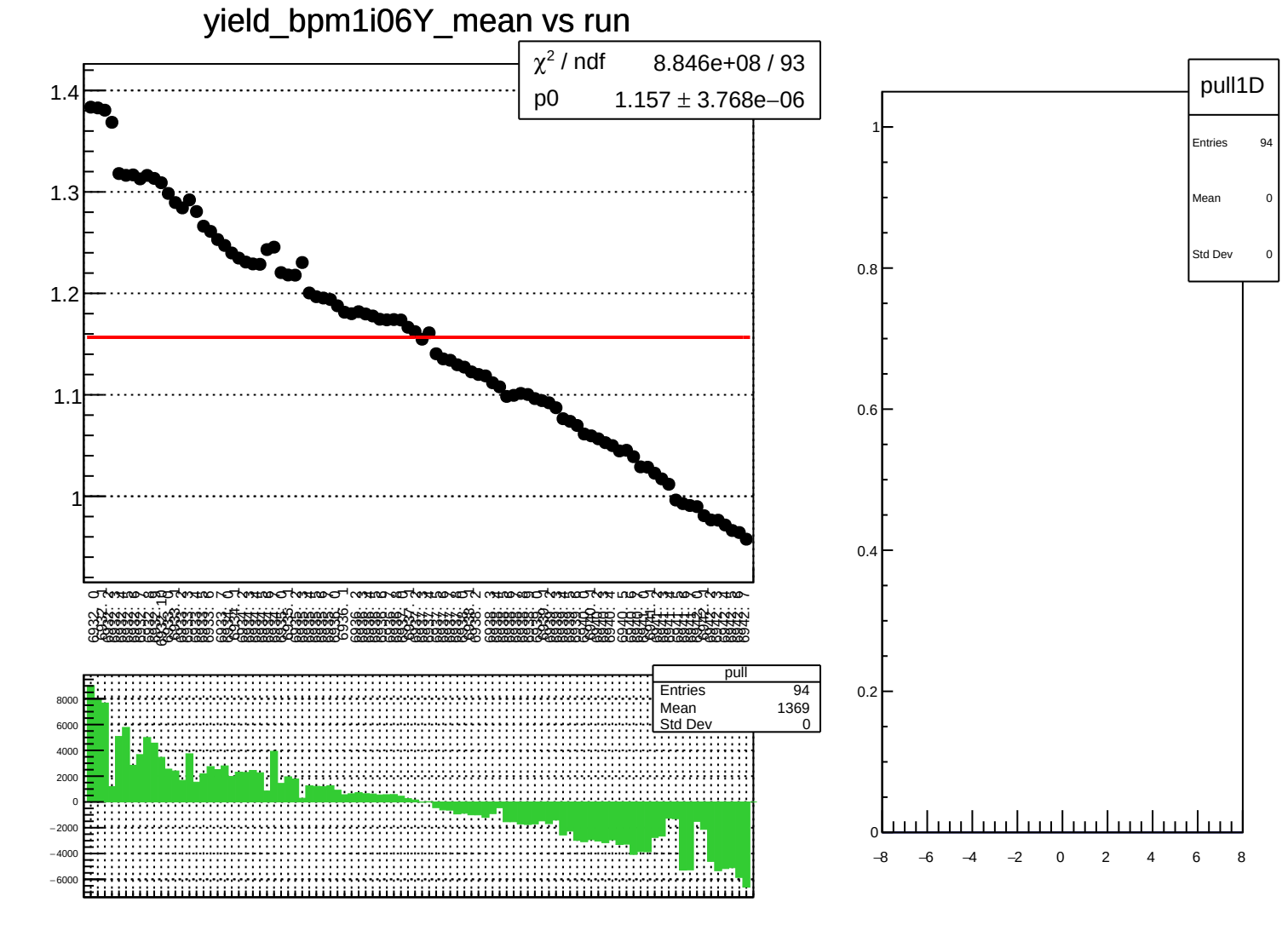

yield_bpm1i04Y_mean vs run
χ² / ndf 1.134e+08 / 93
p0 0.6062 ± 3.728e−06
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
pull
Entries 94
Mean 1385
Std Dev 0
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

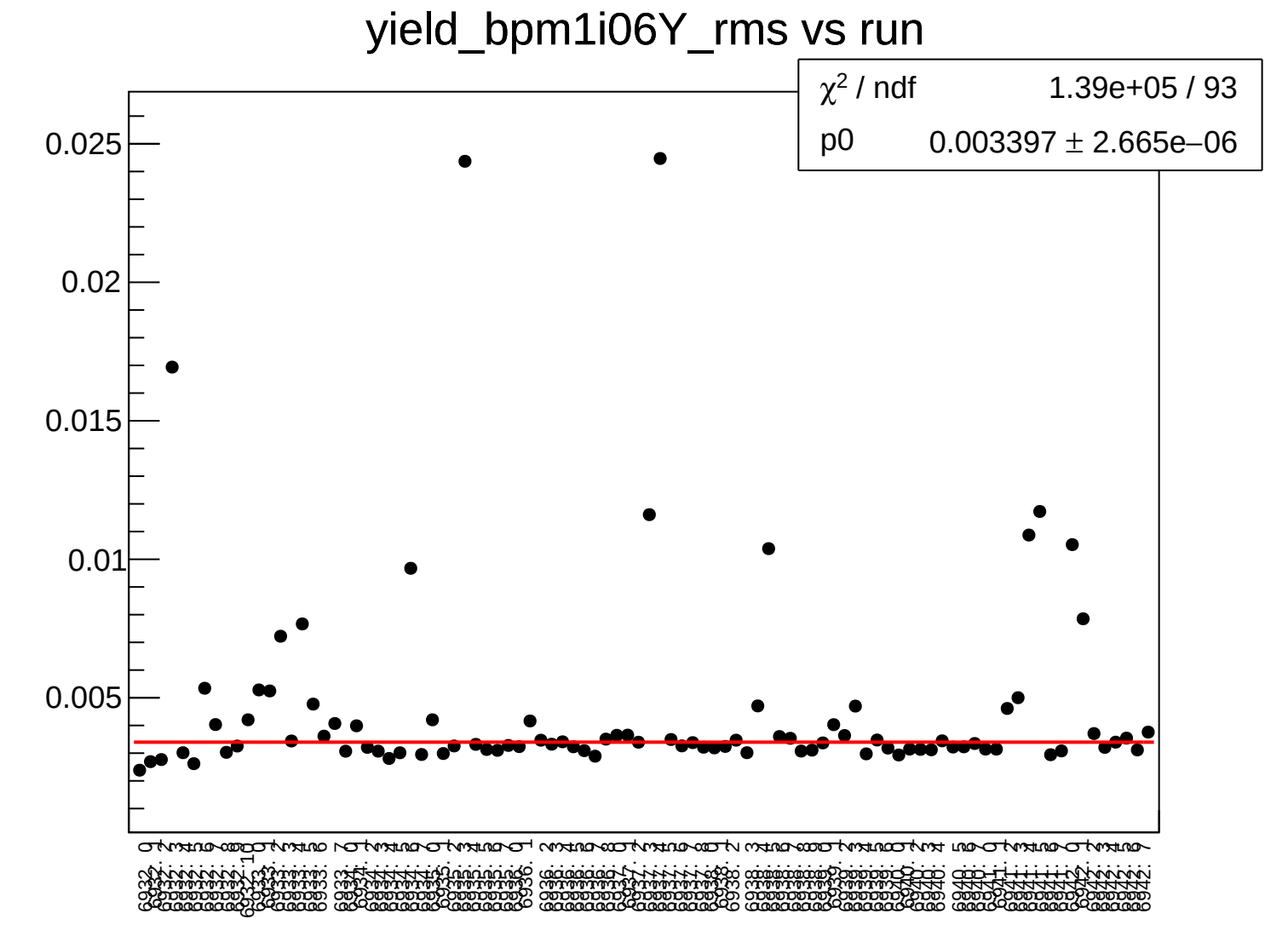

yield_bpm1i04Y_rms vs run
χ² / ndf 3.542e+04 / 93
p0 0.003465 ± 2.636e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

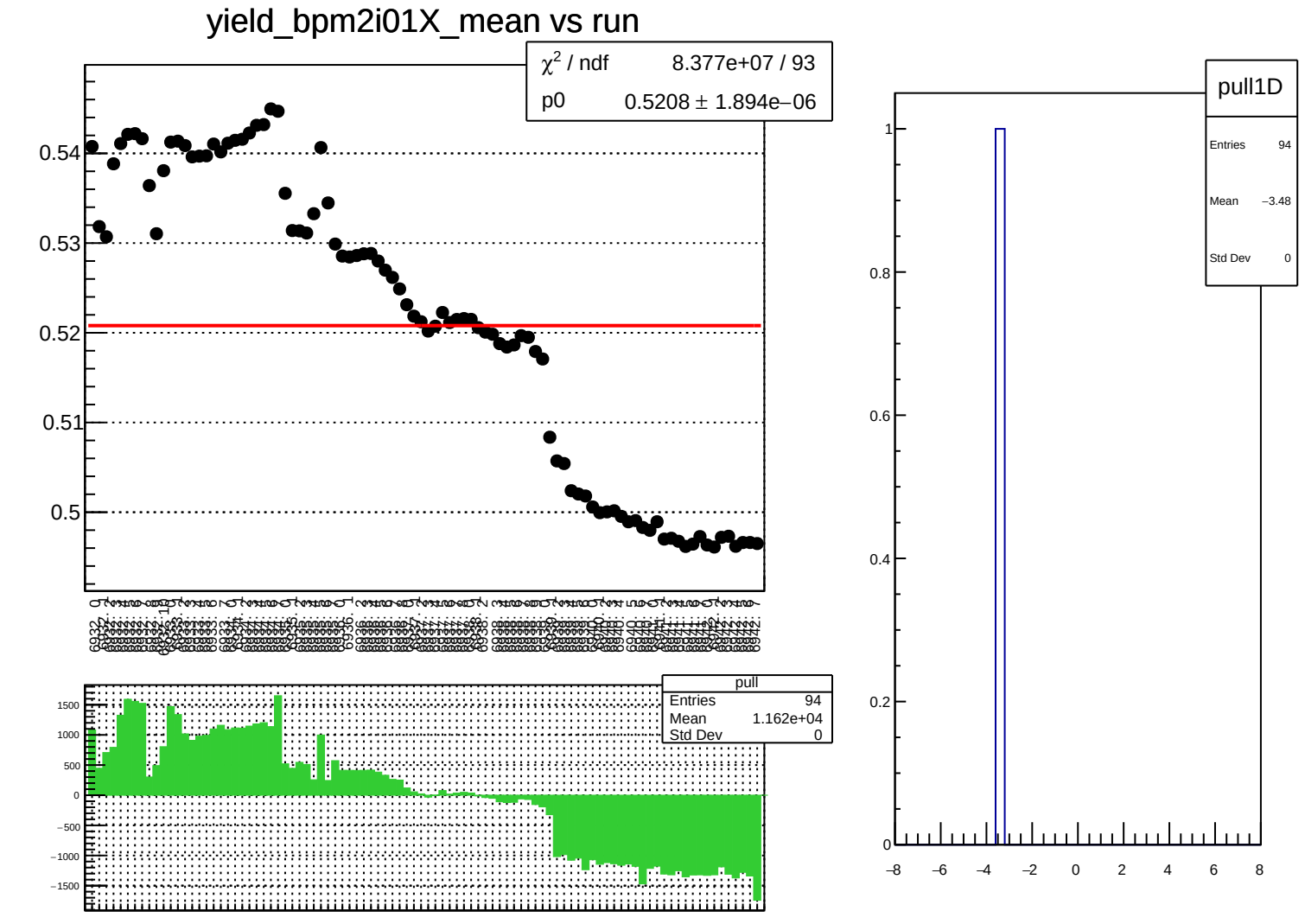

yield_bpm1i06X_mean vs run
χ² / ndf 8.225e+07 / 93
p0 1.841± 1.062e−05
2
1.95
1.9
1.85
1.8
1.75
1.7
1.65
pull
Entries 94
Mean 1021
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

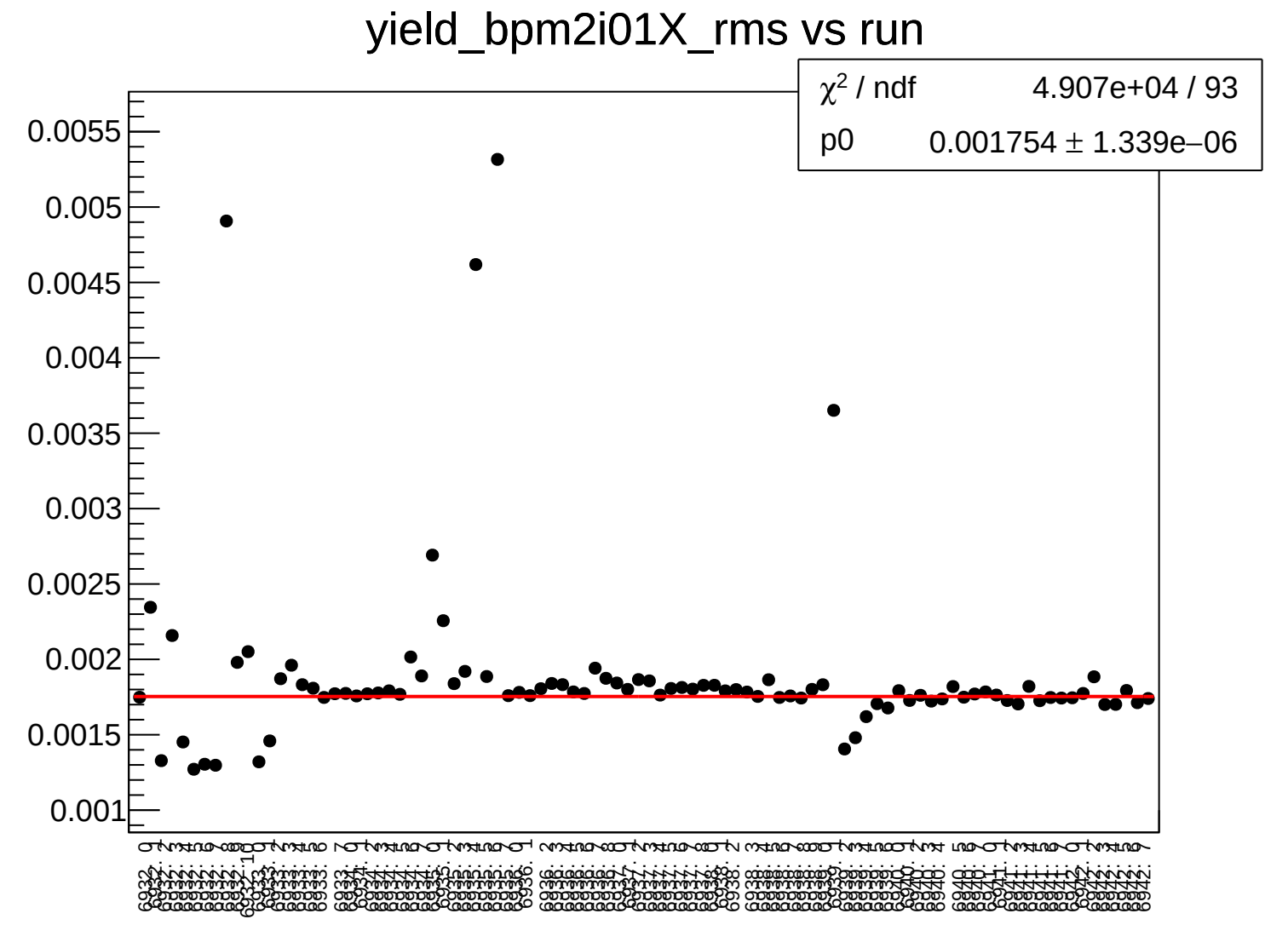

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

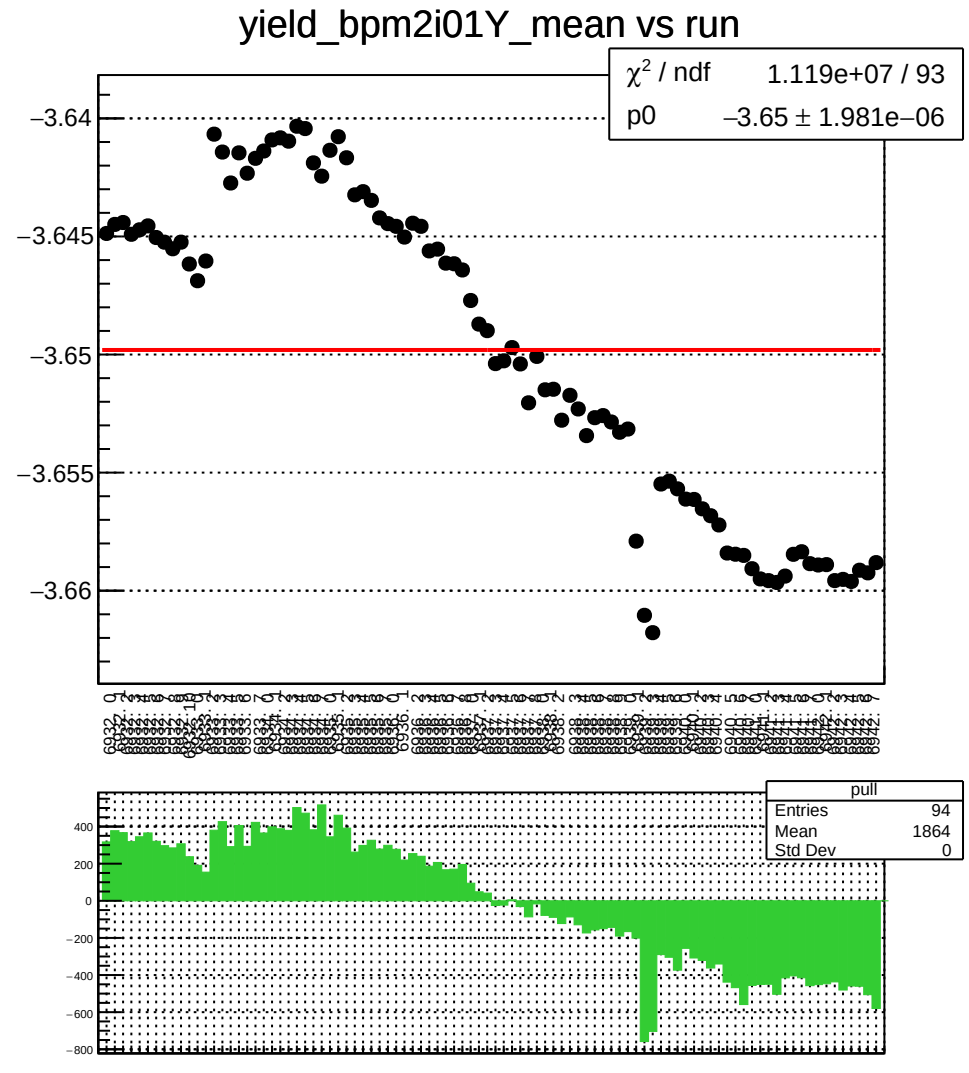

yield_bpm1i06X_rms vs run
χ² / ndf 1.286e+04 / 93
p0 0.009932 ± 7.506e−06
0.018
0.016
0.014
0.012
0.01
0.008

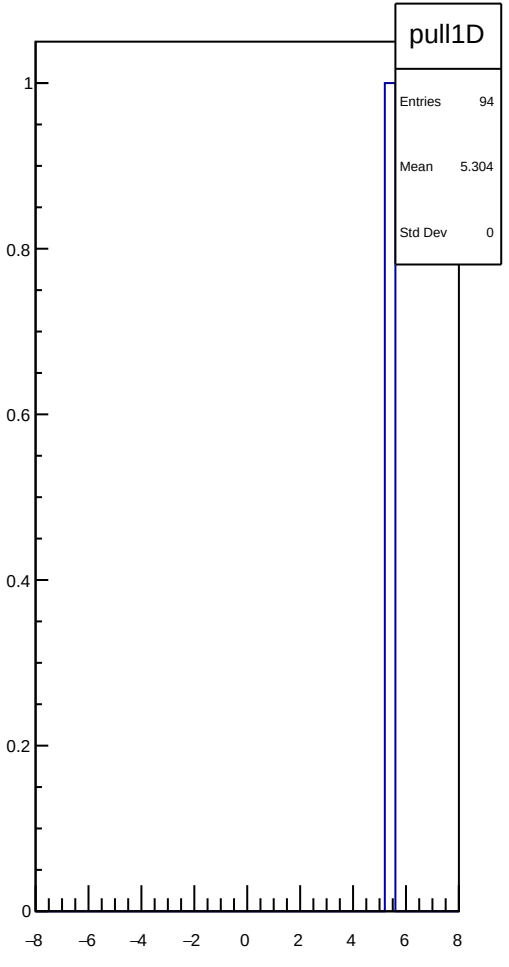

yield_bpm1i06Y_mean vs run
χ² / ndf 8.846e+08 / 93
p0 1.157 ± 3.768e−06
1.4
1.3
1.2
1.1
1
pull
Entries 94
Mean 1369
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

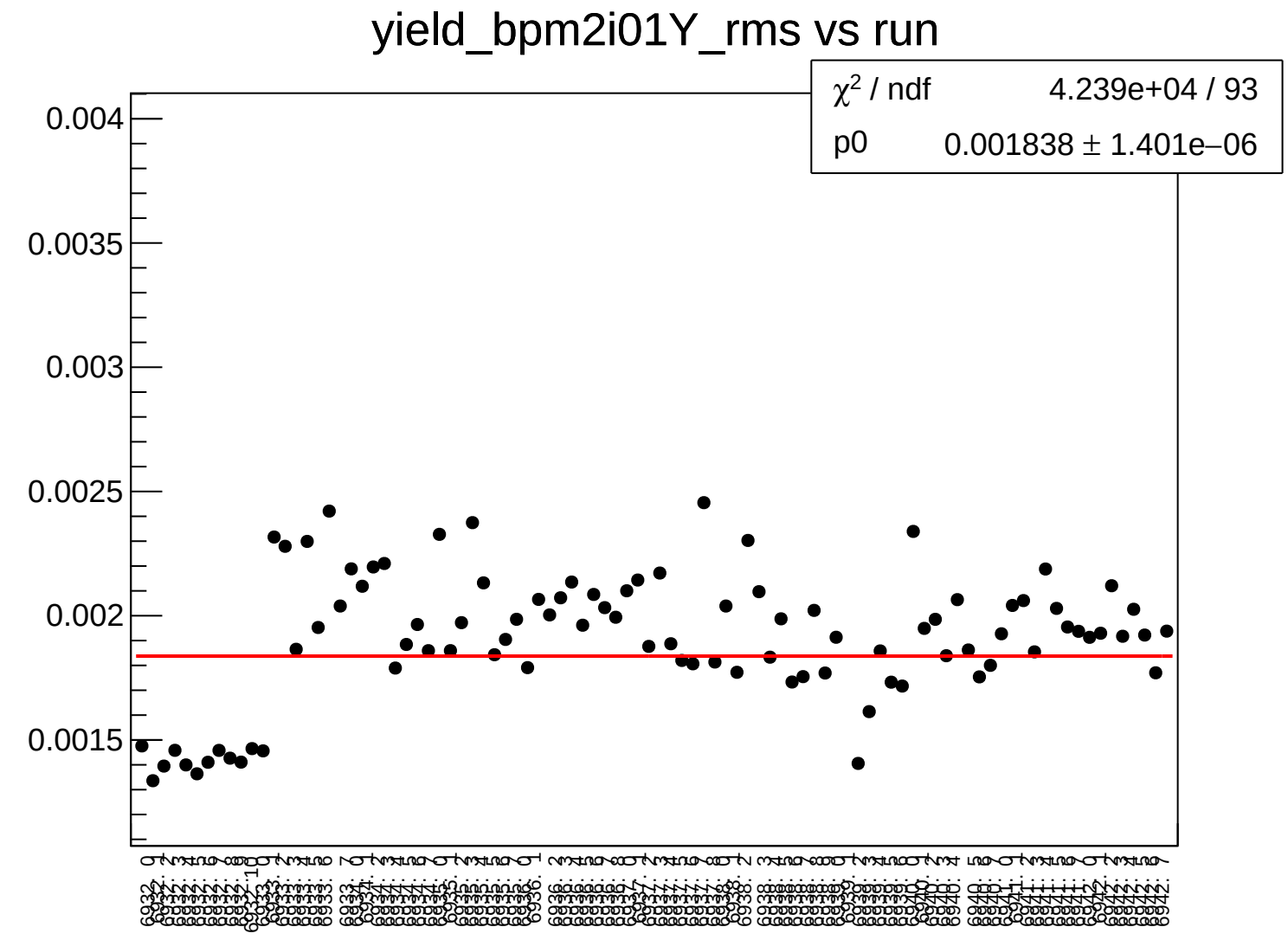

yield_bpm1i06Y_rms vs run
χ² / ndf 1.39e+05 / 93
p0 0.003397 ± 2.665e−06
0.025
0.02
0.015
0.01
0.005

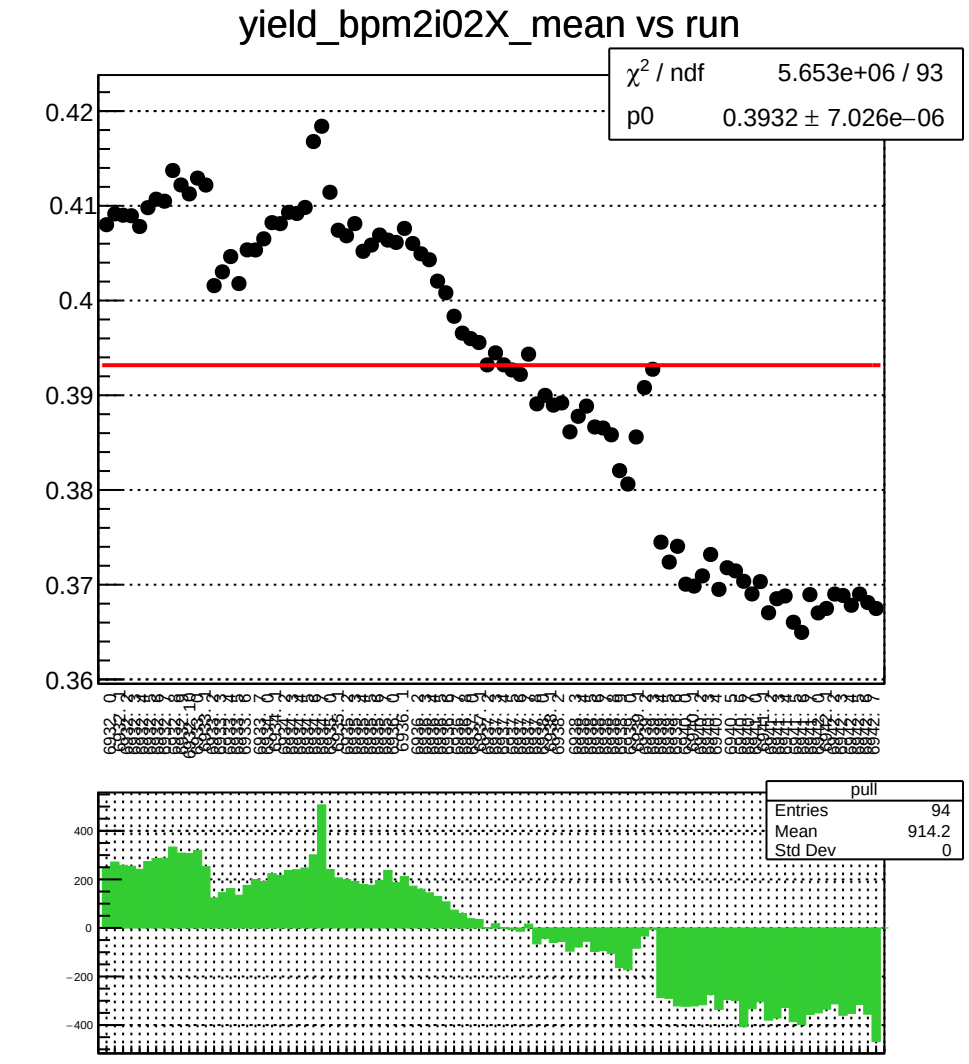

yield_bpm2i01X_mean vs run
χ² / ndf 8.377e+07 / 93
p0 0.5208 ± 1.894e−06
0.54
0.53
0.52
0.51
0.5
pull
Entries 94
Mean 1.162e+04
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 94
Mean −3.48
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

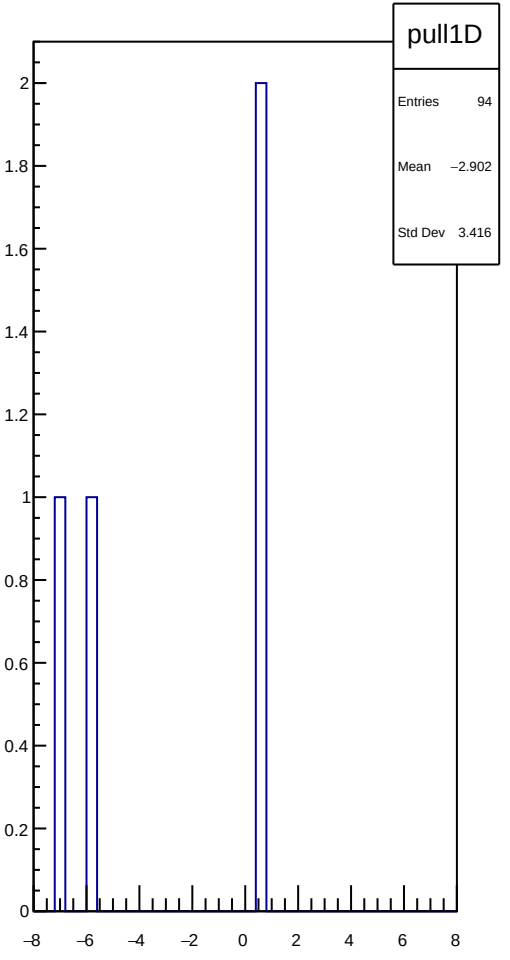

yield_bpm2i01X_rms vs run
χ² / ndf 4.907e+04 / 93
p0 0.001754 ± 1.339e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

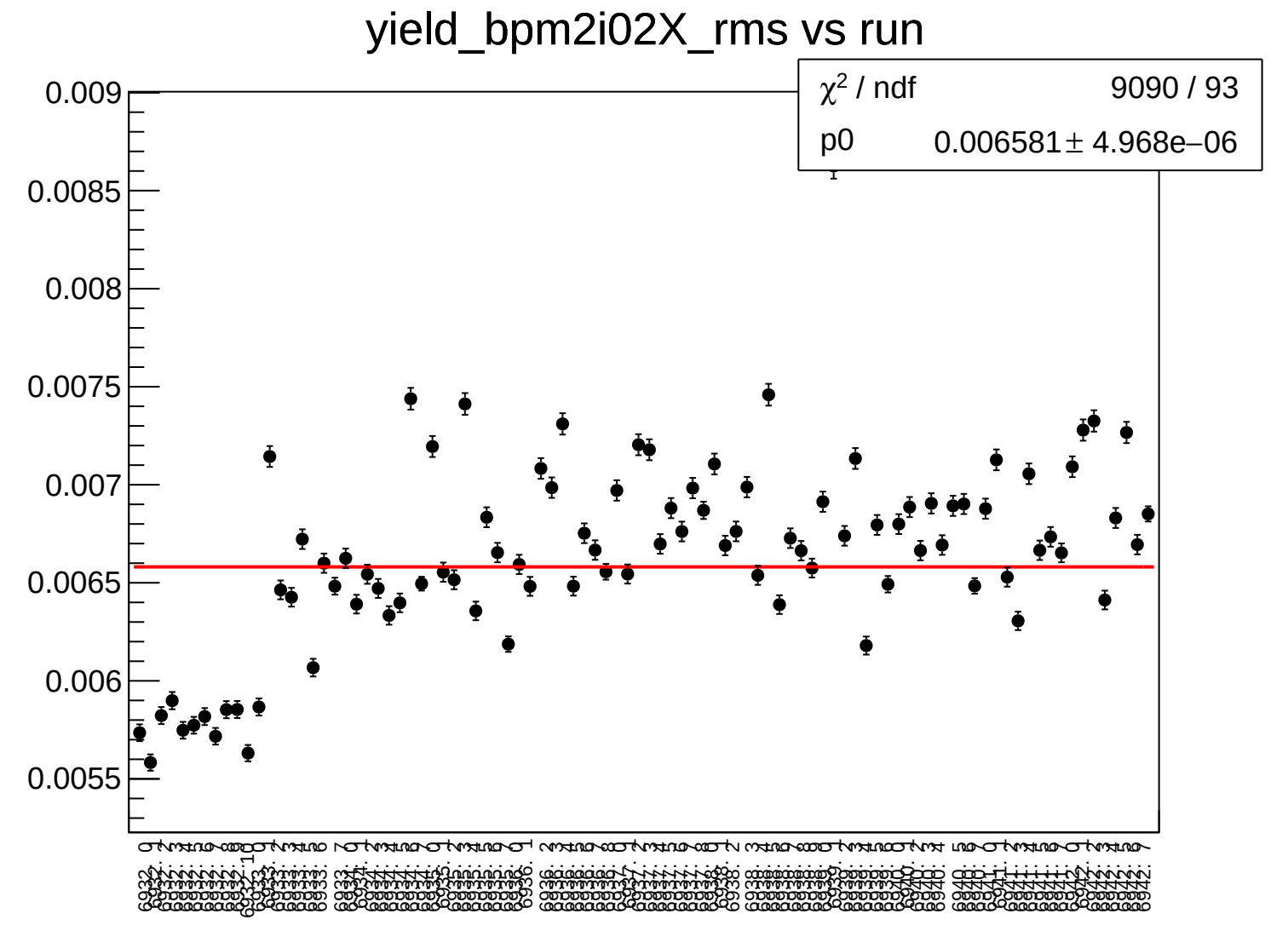

yield_bpm2i01Y_mean vs run
χ² / ndf 1.119e+07 / 93
p0 −3.65 ± 1.981e−06
−3.64
−3.645
−3.65
−3.655
−3.66
pull
Entries 94
Mean 1864
Std Dev 0
400
200
0
−200
−400
−600
−800

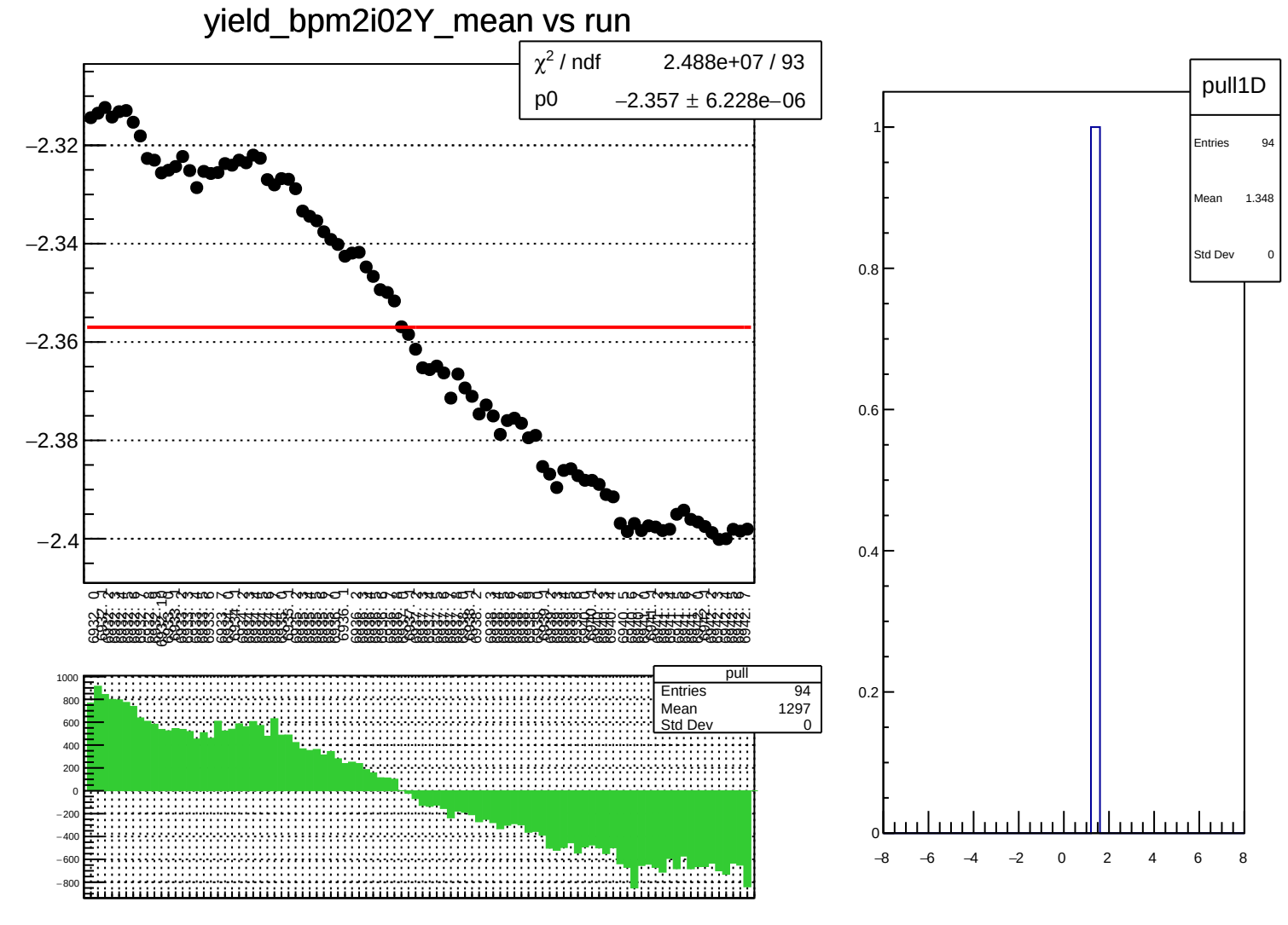

pull1D
Entries 94
Mean 5.304
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

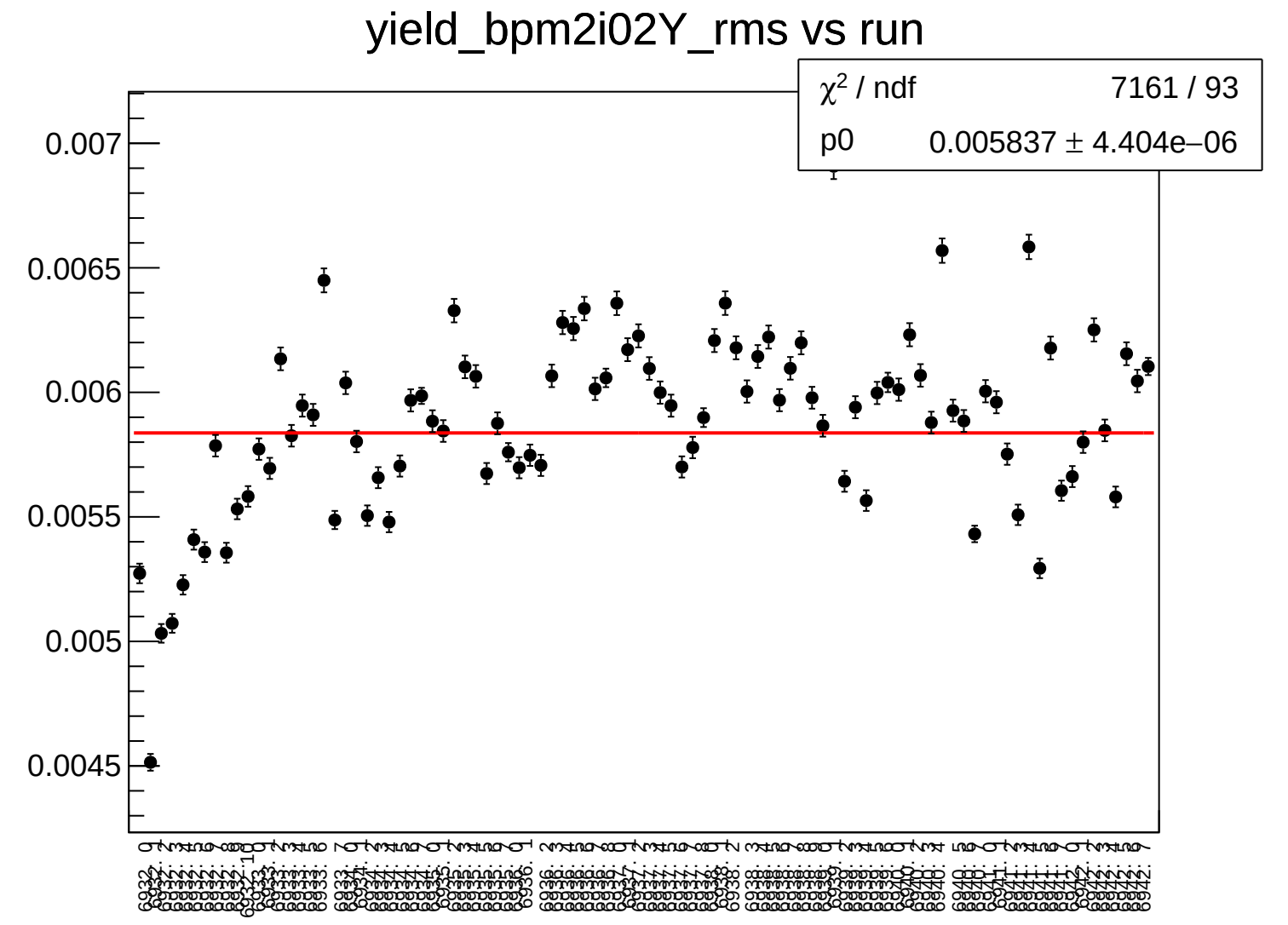

yield_bpm2i01Y_rms vs run
χ² / ndf 4.239e+04 / 93
p0 0.001838 ± 1.401e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

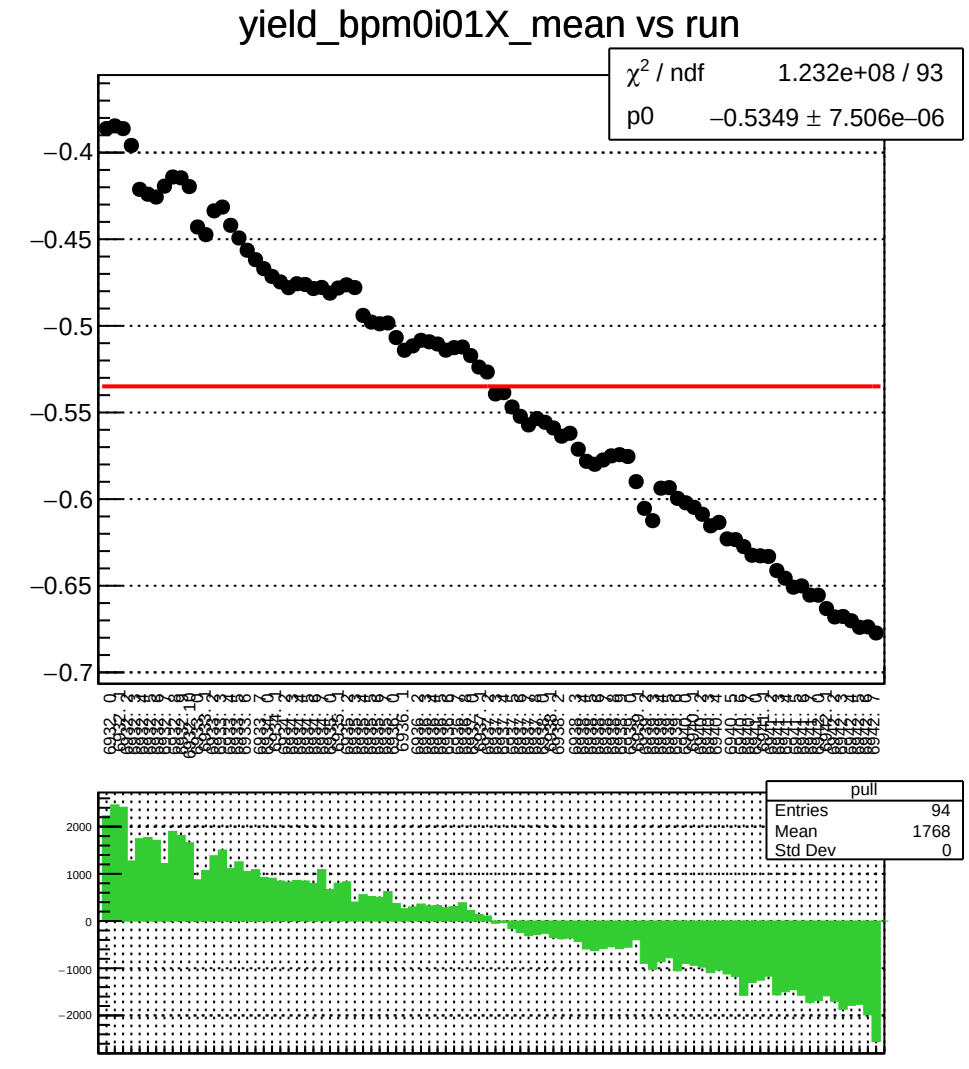

yield_bpm2i02X_mean vs run
χ² / ndf 5.653e+06 / 93
p0 0.3932 ± 7.026e−06
0.42
0.41
0.4
0.39
0.38
0.37
0.36
pull
Entries 94
Mean 914.2
Std Dev 0
400
200
0
−200
−400

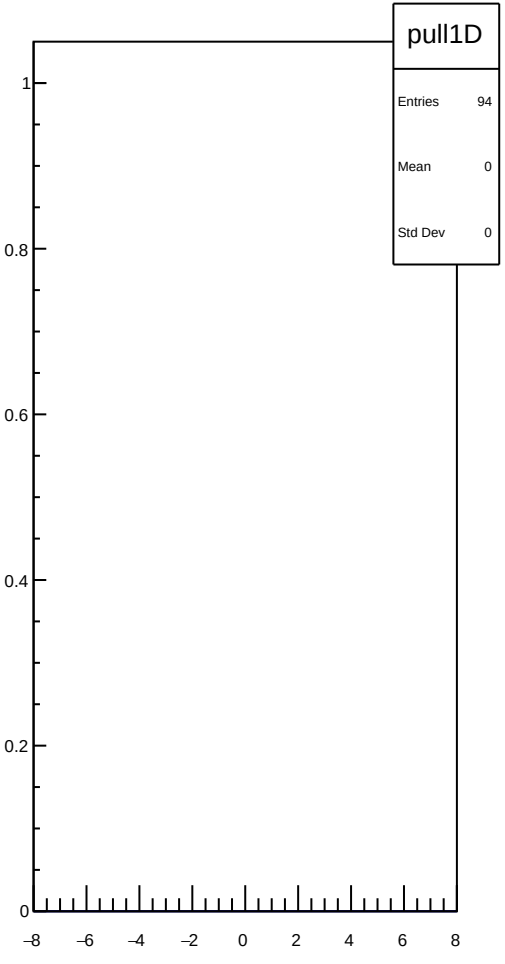

pull1D
Entries 94
Mean −2.902
Std Dev 3.416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

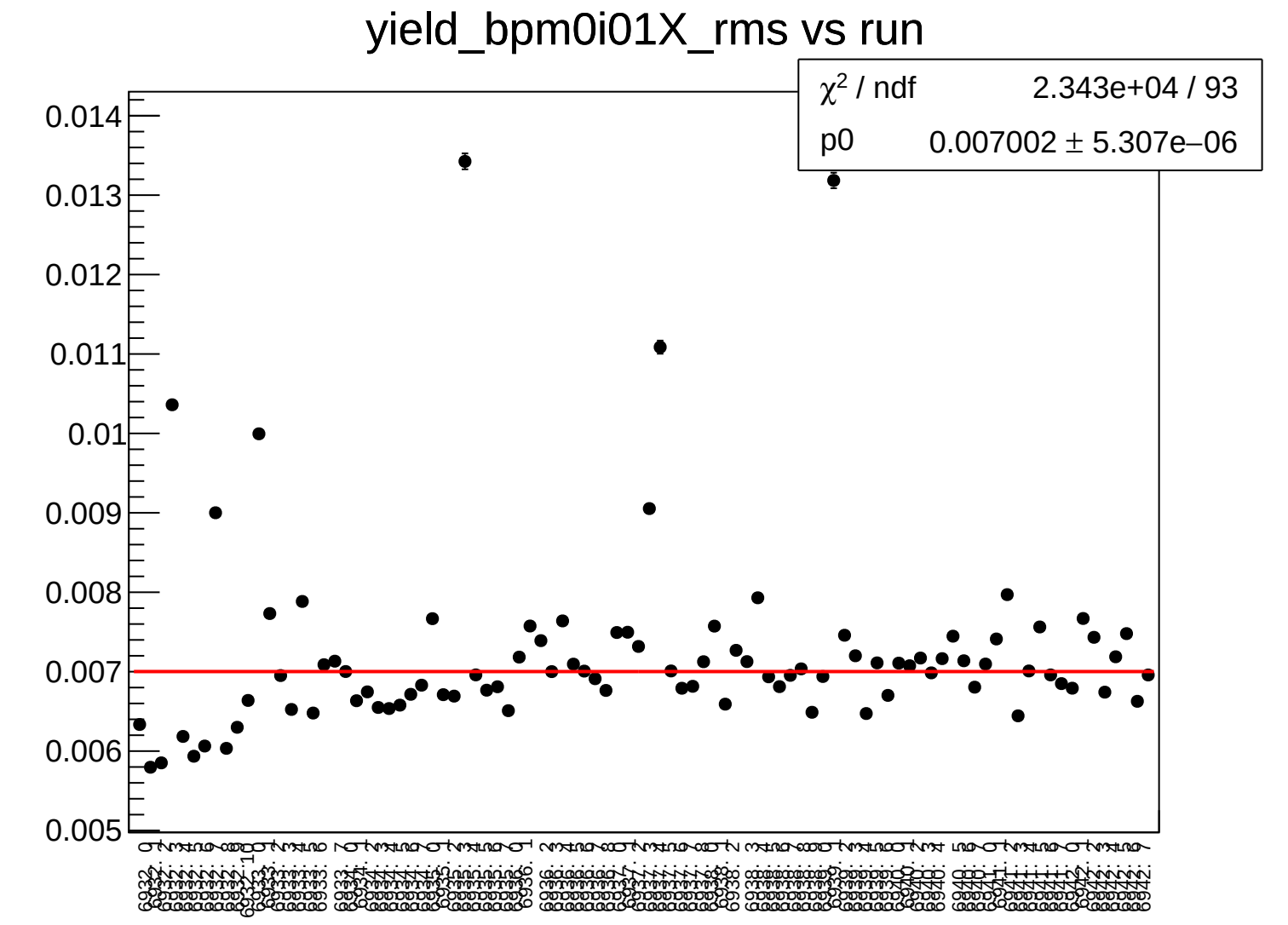

yield_bpm2i02X_rms vs run
χ² / ndf 9090 / 93
p0 0.006581 ± 4.968e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

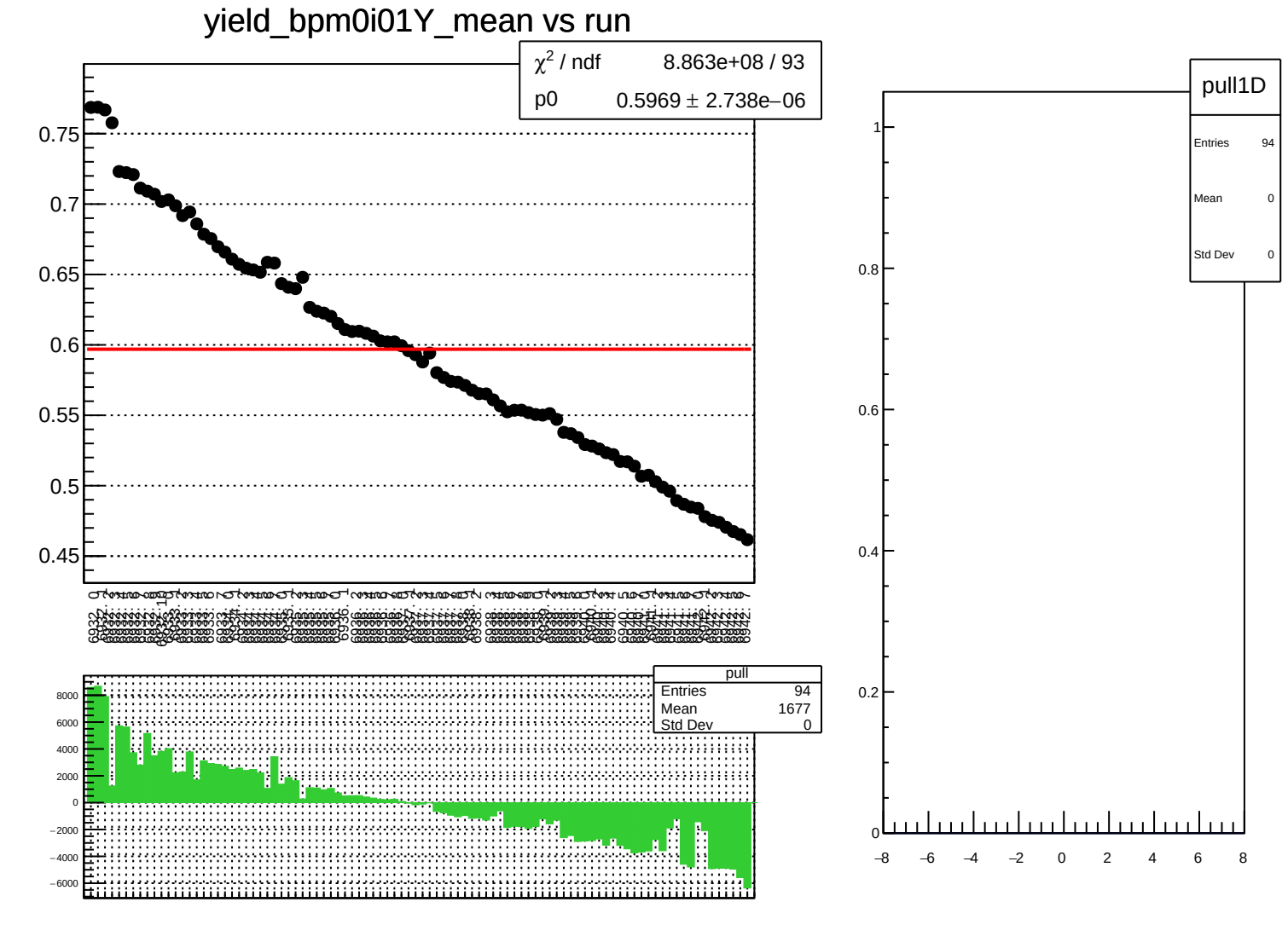

yield_bpm2i02Y_mean vs run
χ² / ndf 2.488e+07 / 93
p0 −2.357 ± 6.228e−06
−2.32
−2.34
−2.36
−2.38
−2.4
pull
Entries 94
Mean 1297
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean 1.348
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

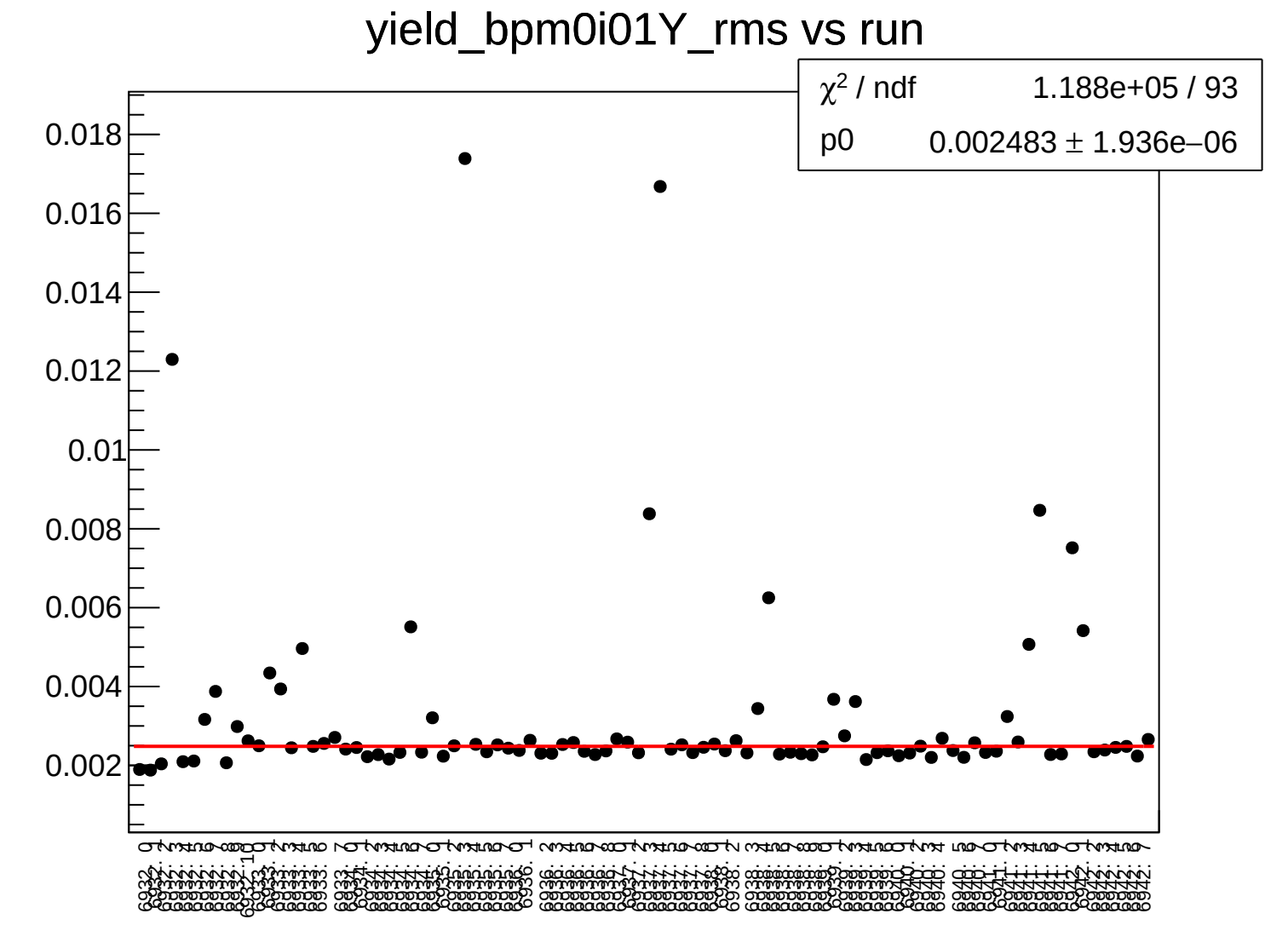

yield_bpm2i02Y_rms vs run
χ² / ndf 7161 / 93
p0 0.005837 ± 4.404e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

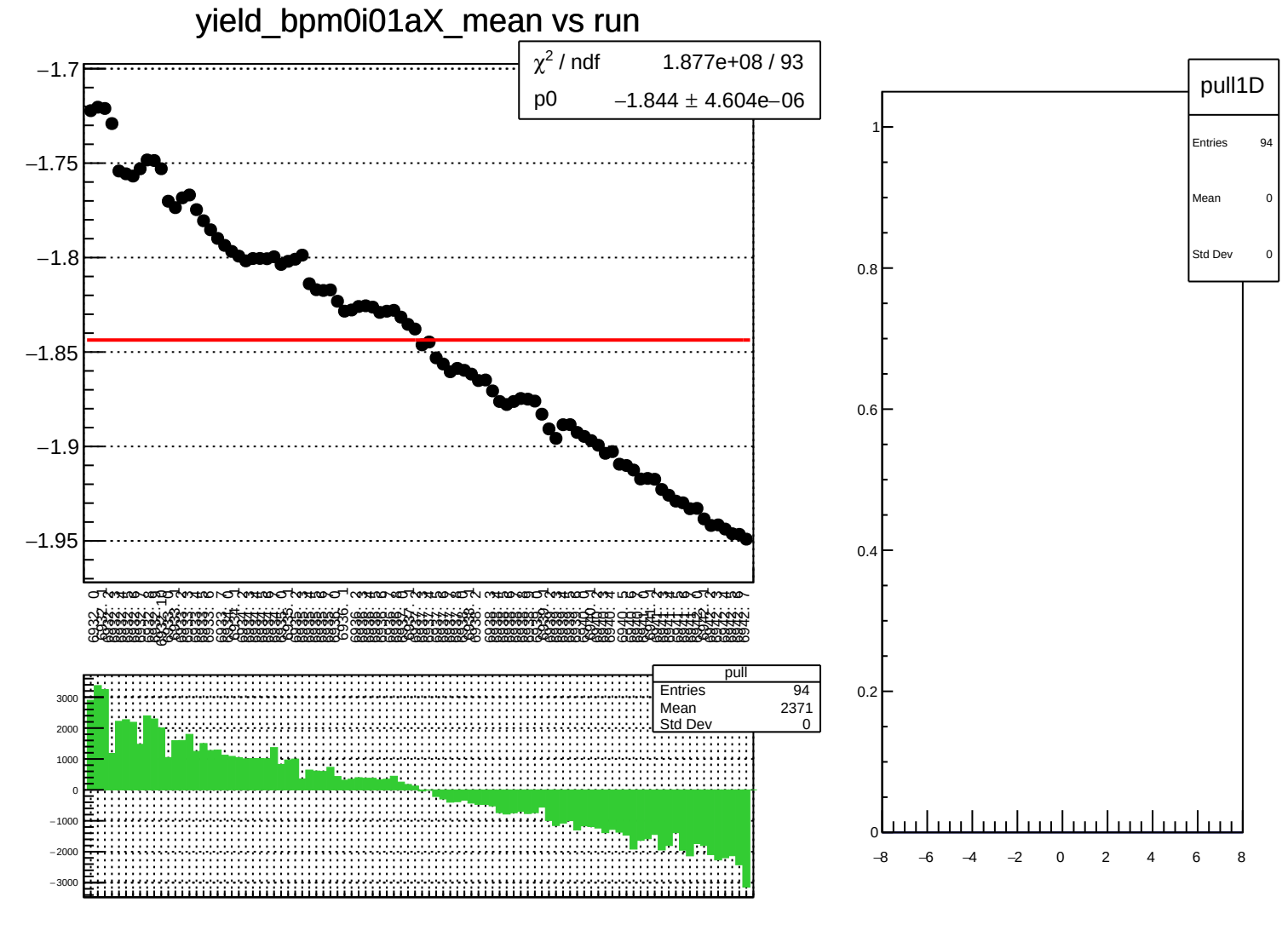

yield_bpm0i01X_mean vs run
χ² / ndf 1.232e+08 / 93
p0 −0.5349 ± 7.506e−06
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 94
Mean 1768
Std Dev 0
2000
1000
0
−1000
−2000

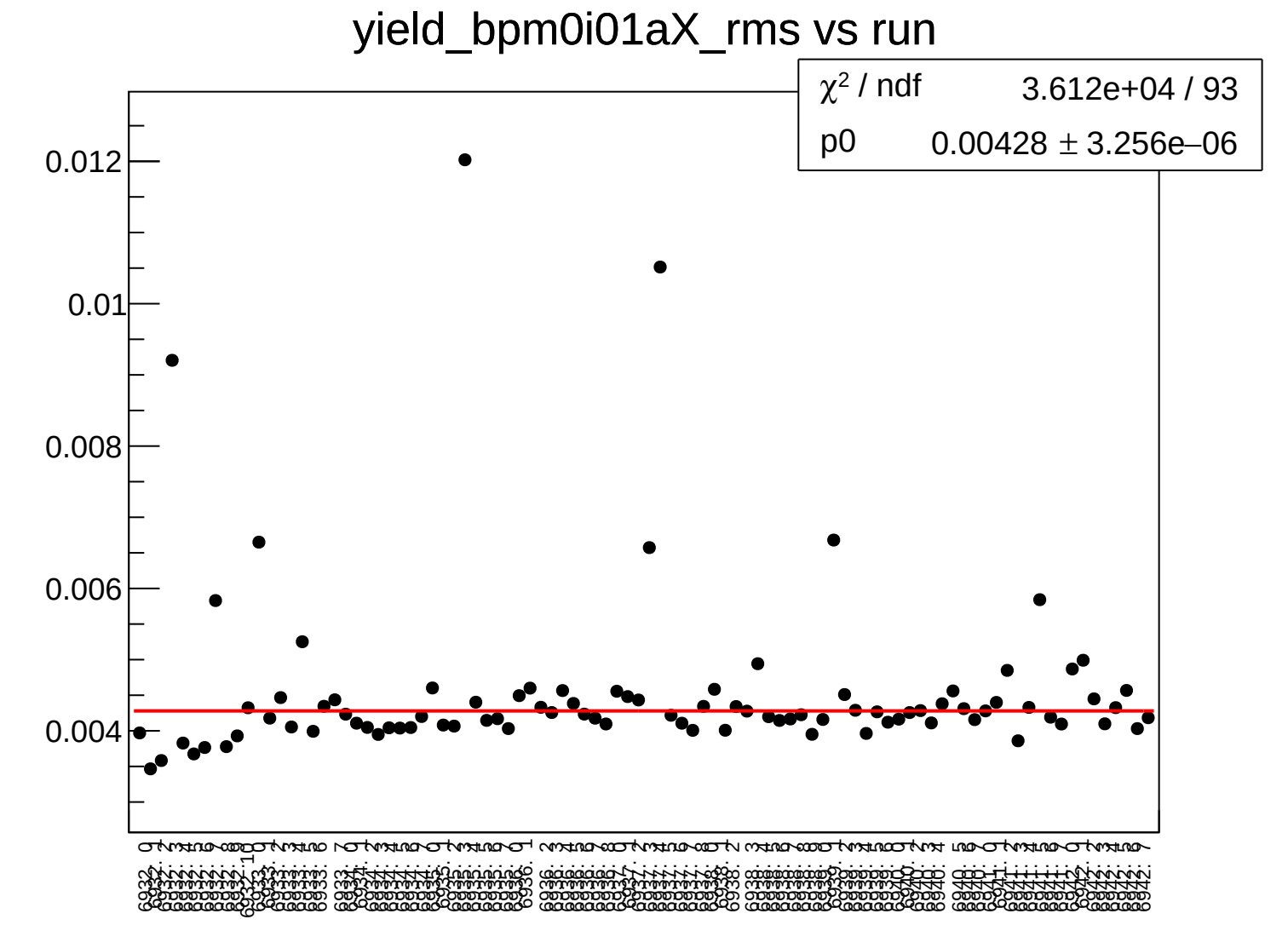

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

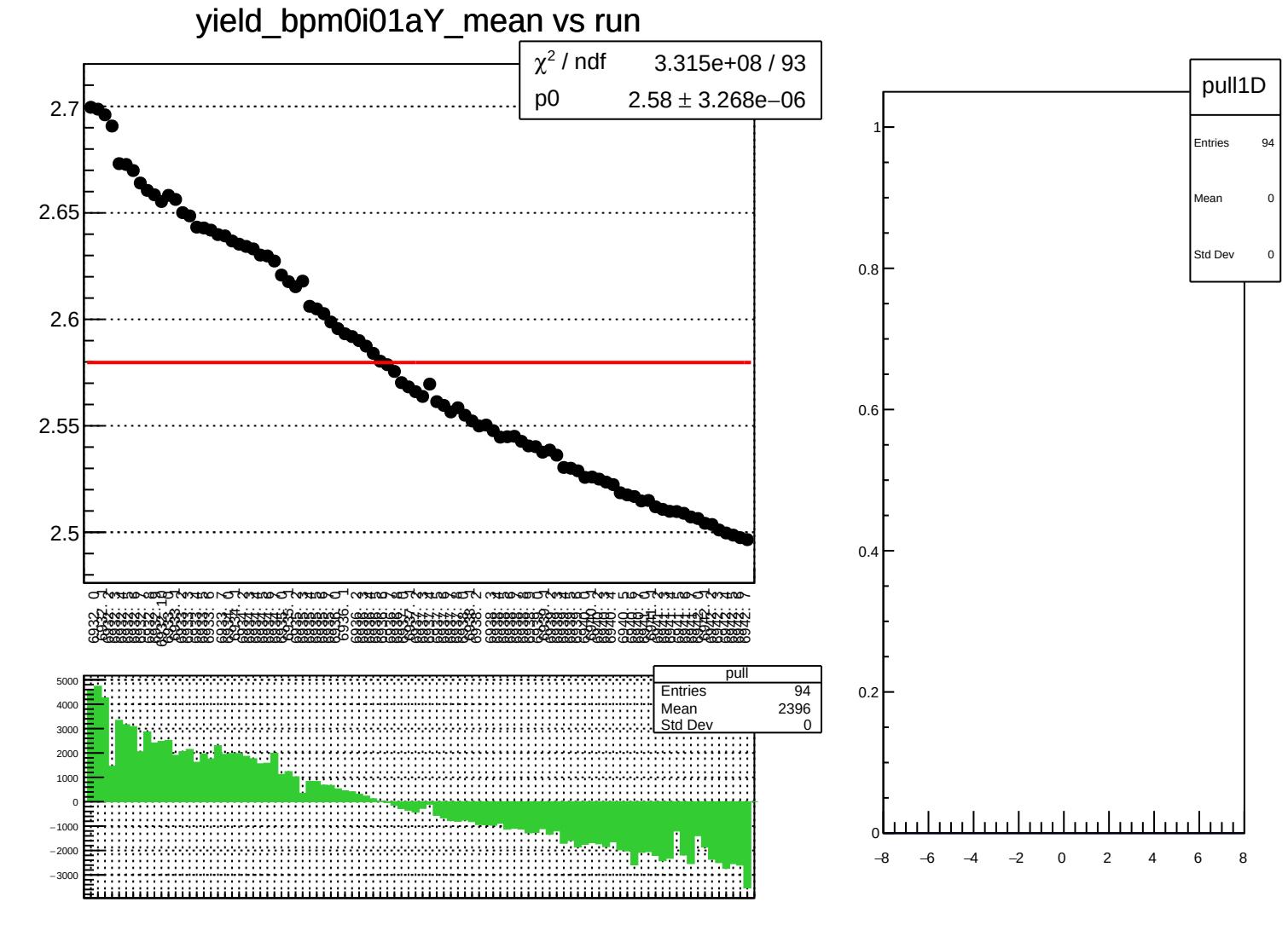

yield_bpm0i01X_rms vs run
χ^2 / ndf 2.343e+04 / 93
p0 0.007002 ± 5.307e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

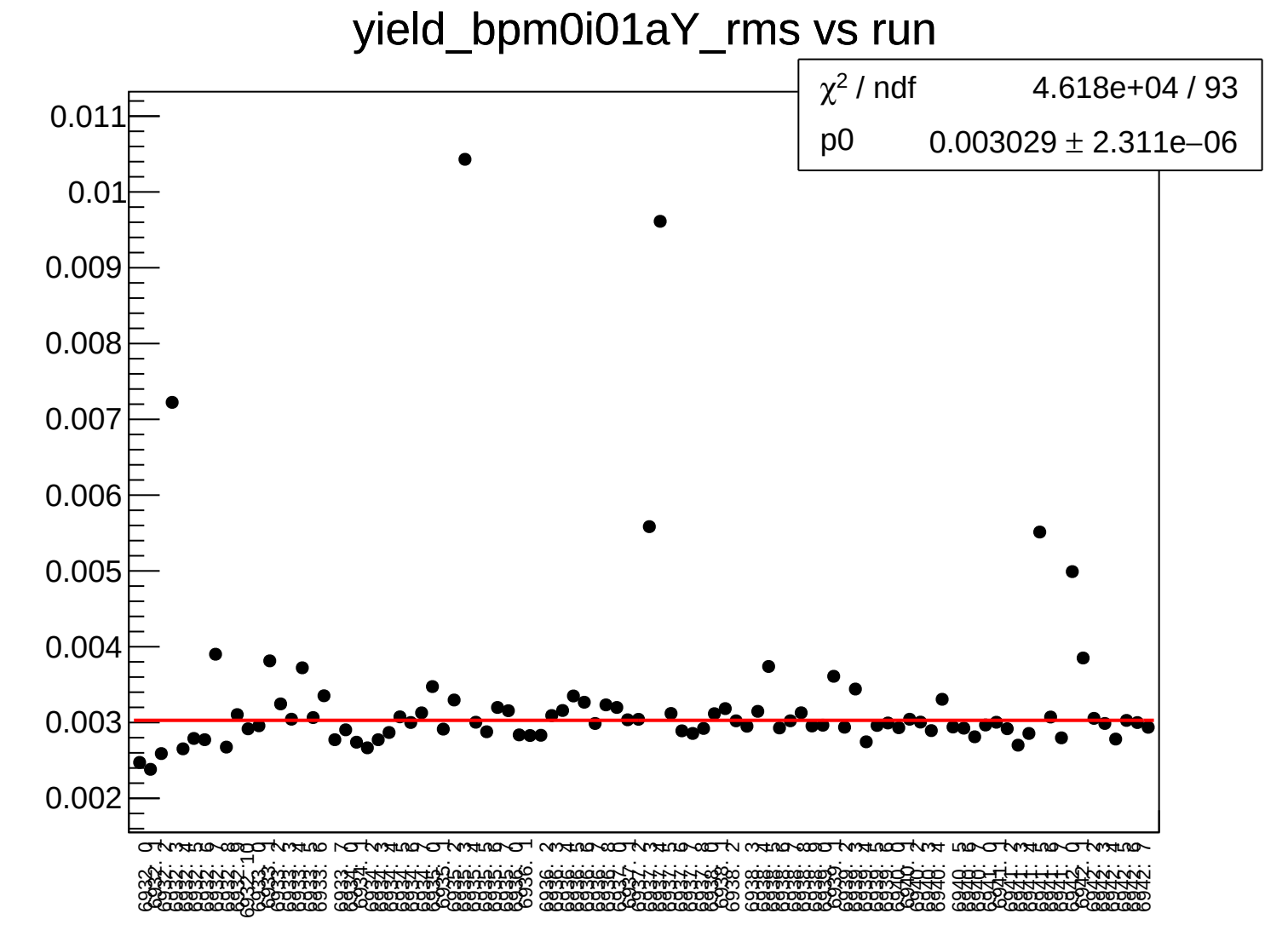

yield_bpm0i01Y_mean vs run
χ² / ndf 8.863e+08 / 93
p0 0.5969 ± 2.738e−06
0.75
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 94
Mean 1677
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

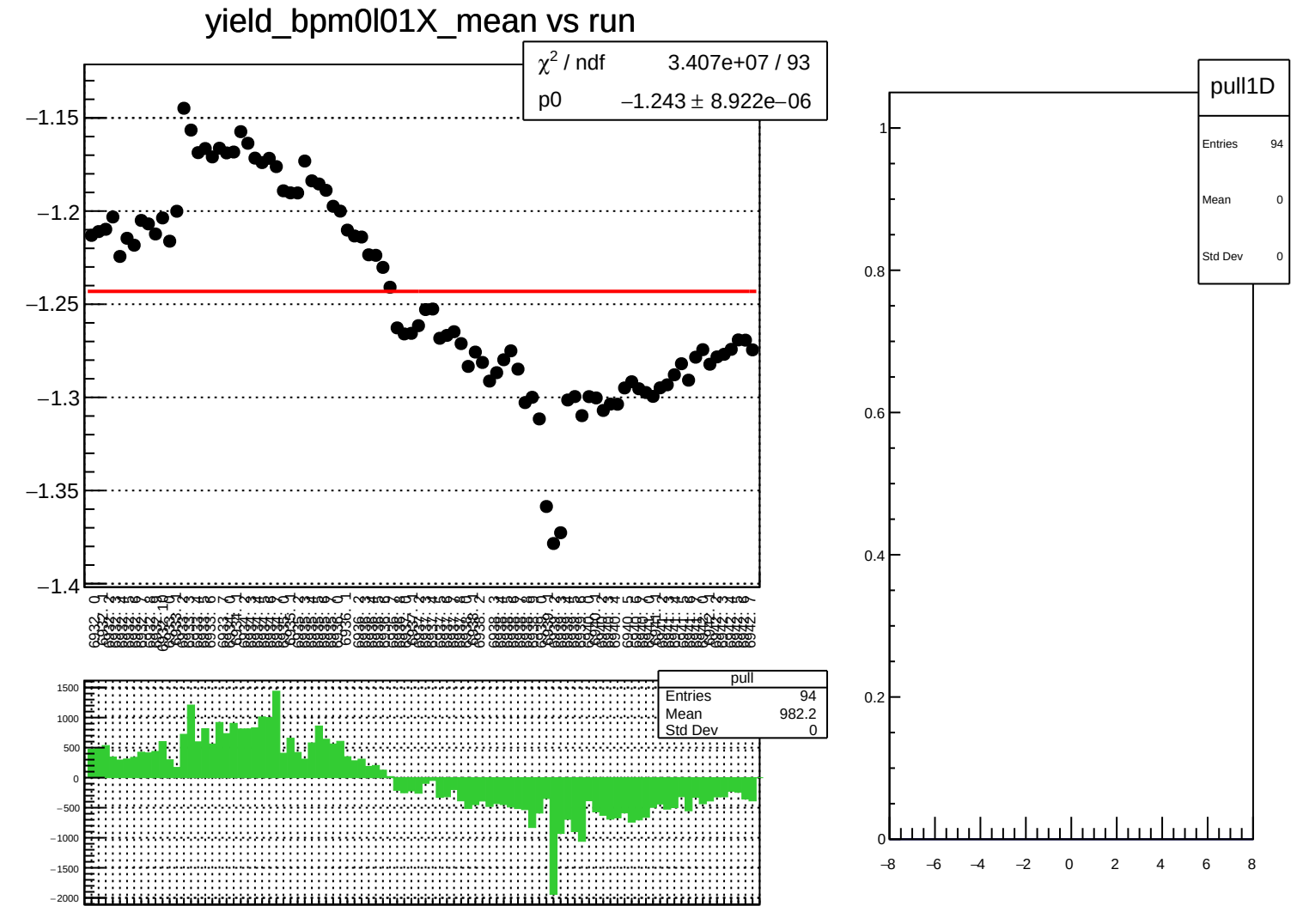

yield_bpm0i01Y_rms vs run
χ^2 / ndf 1.188e+05 / 93
p0 0.002483 ± 1.936e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

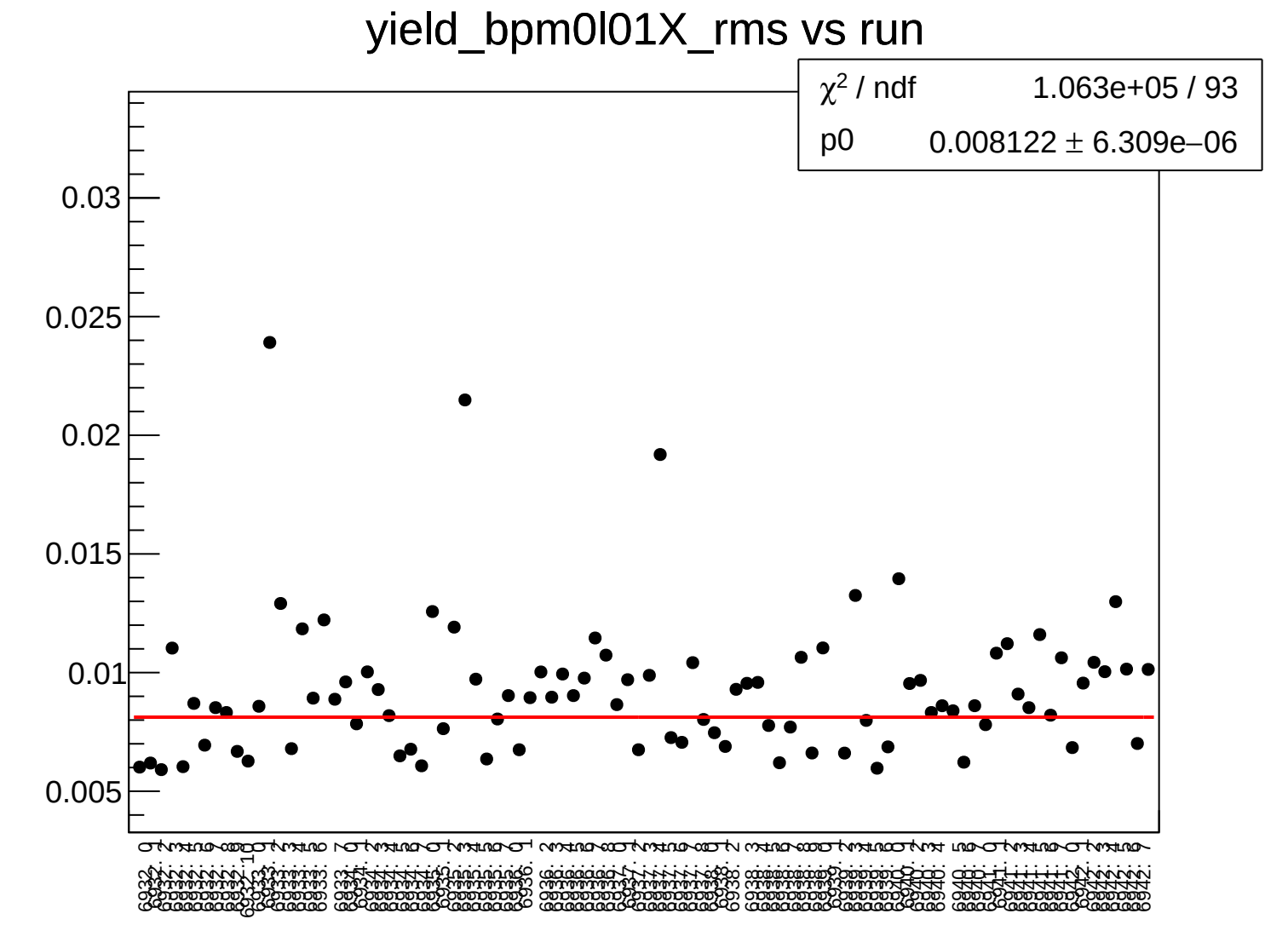

yield_bpm0i01aX_mean vs run
χ² / ndf 1.877e+08 / 93
p0 −1.844 ± 4.604e−06
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
pull
Entries 94
Mean 2371
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

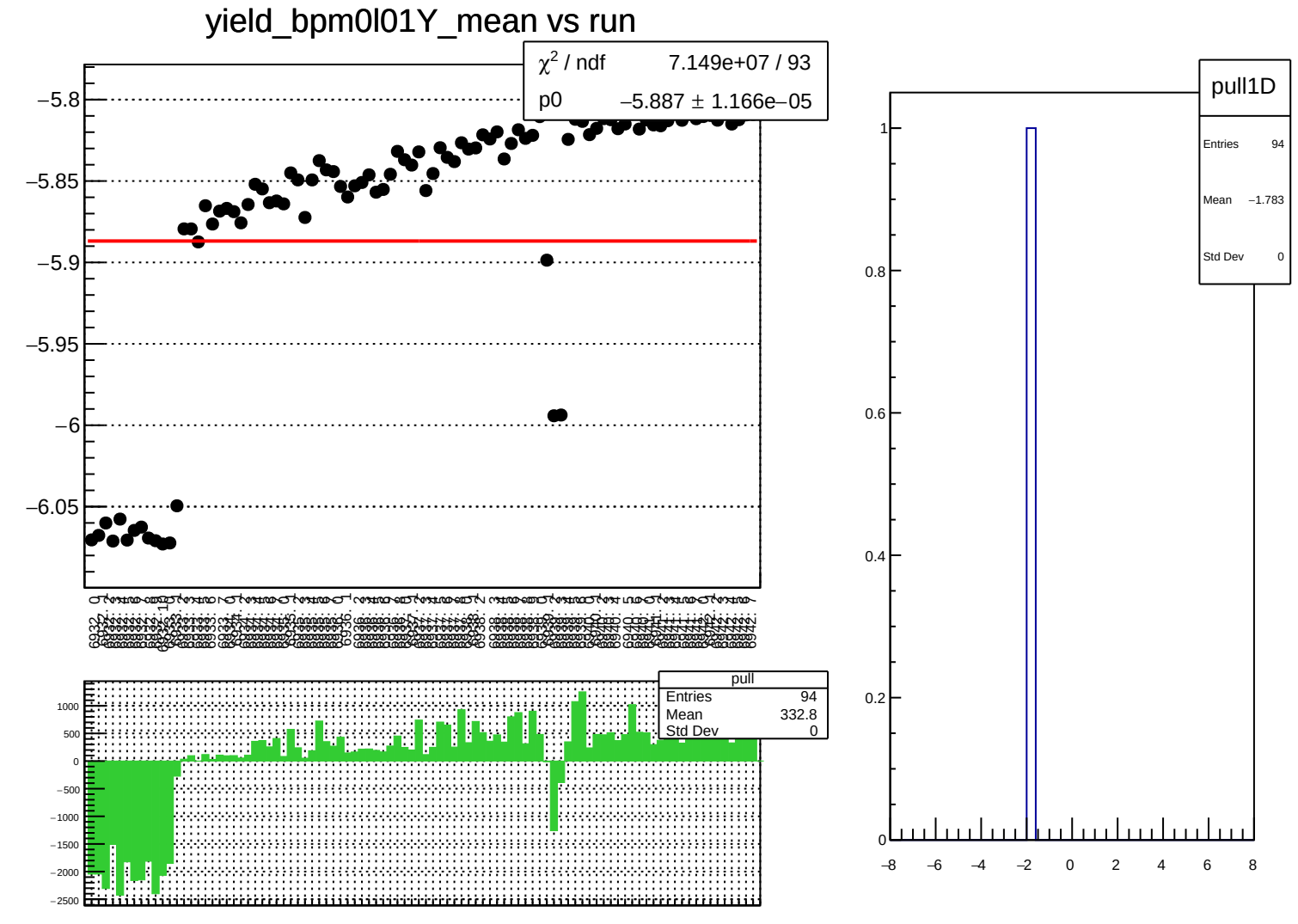

yield_bpm0i01aX_rms vs run
χ² / ndf 3.612e+04 / 93
p0 0.00428 ± 3.256e–06
0.012
0.01
0.008
0.006
0.004

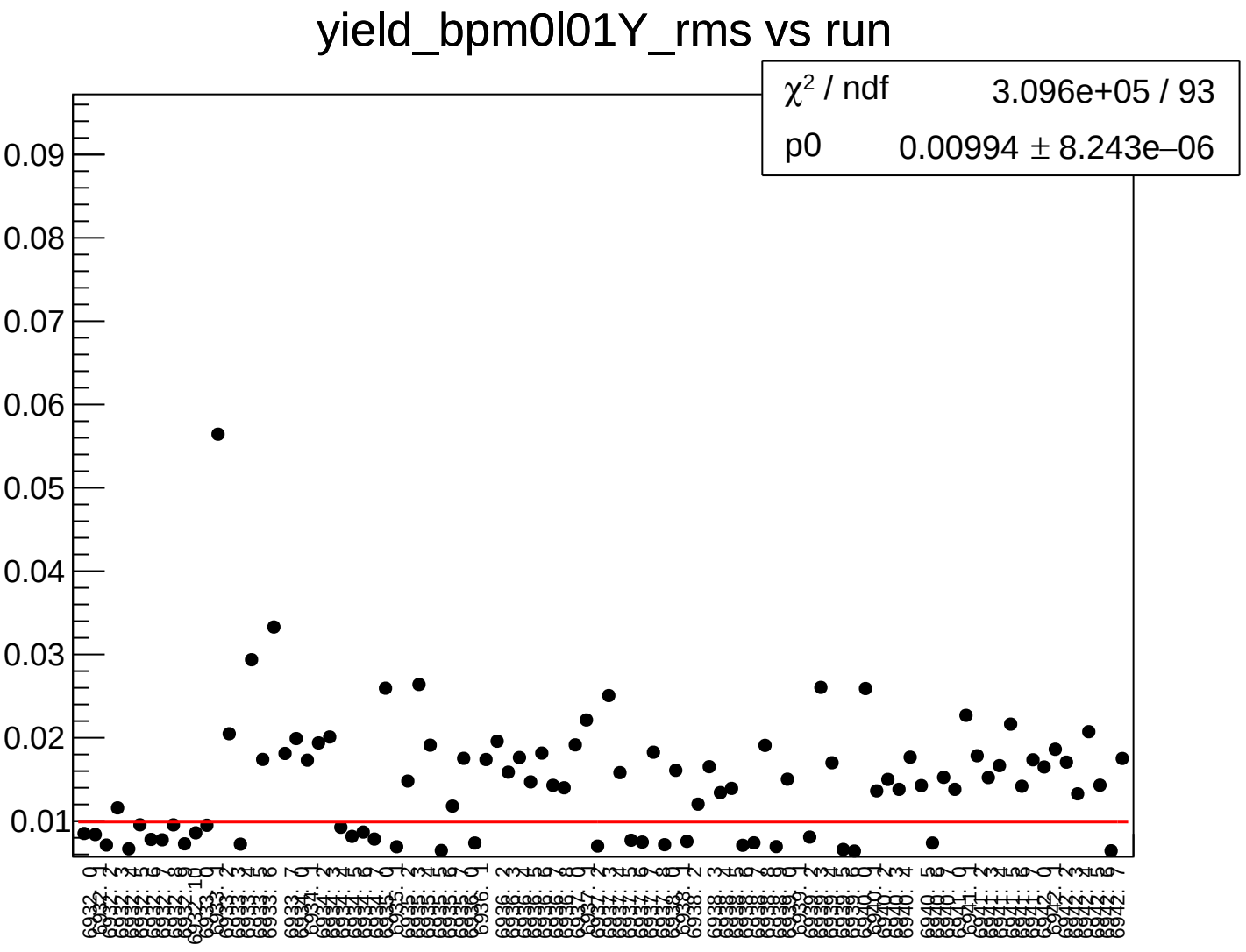

yield_bpm0i01aY_mean vs run
χ² / ndf 3.315e+08 / 93
p0 2.58 ± 3.268e−06
2.7
2.65
2.6
2.55
2.5
pull
Entries 94
Mean 2396
Std Dev 0
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

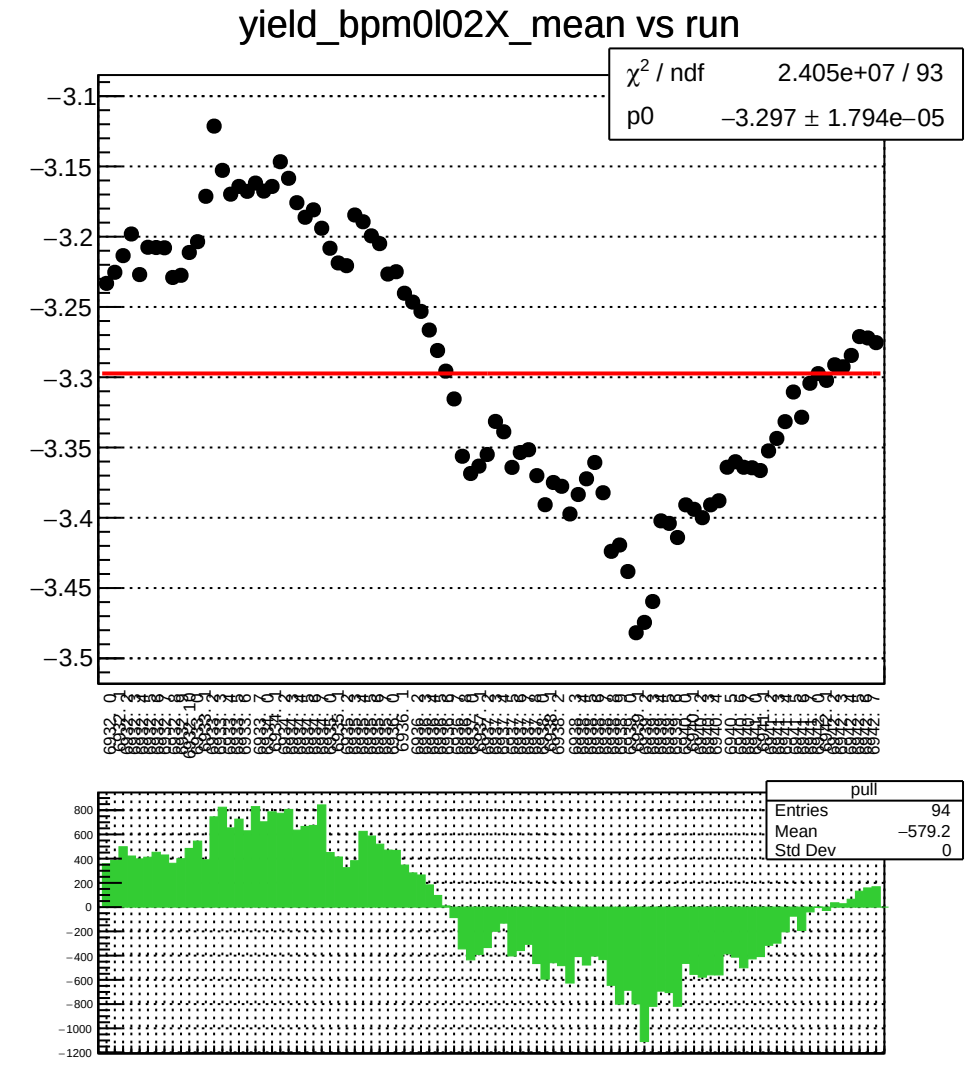

yield_bpm0i01aY_rms vs run
χ^2 / ndf 4.618e+04 / 93
p0 0.003029 ± 2.311e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

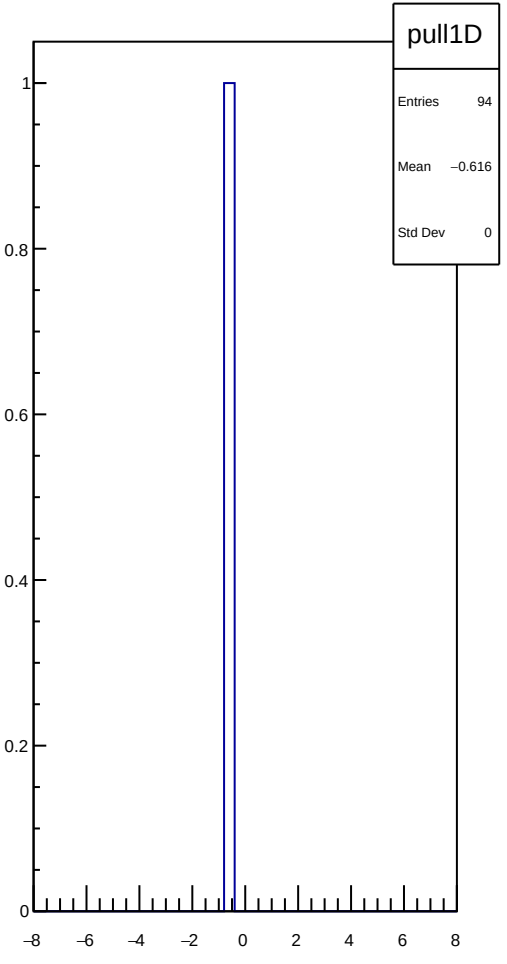

yield_bpm0l01X_mean vs run
χ² / ndf 3.407e+07 / 93
p0 −1.243 ± 8.922e−06
−1.15
−1.2
−1.25
−1.3
−1.35
−1.4
pull
Entries 94
Mean 982.2
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

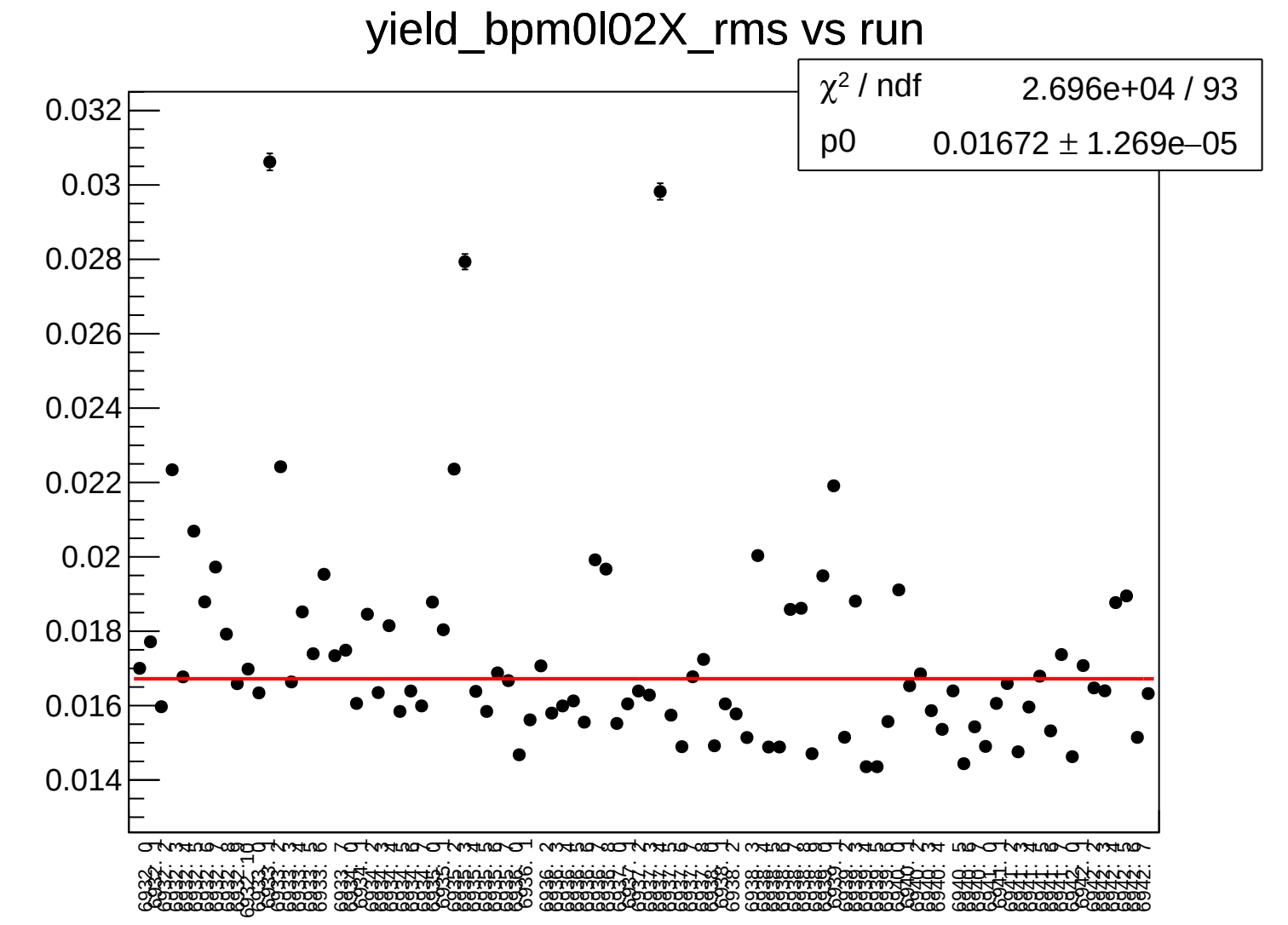

yield_bpm0l01X_rms vs run
χ² / ndf 1.063e+05 / 93
p0 0.008122 ± 6.309e−06
0.03
0.025
0.02
0.015
0.01
0.005

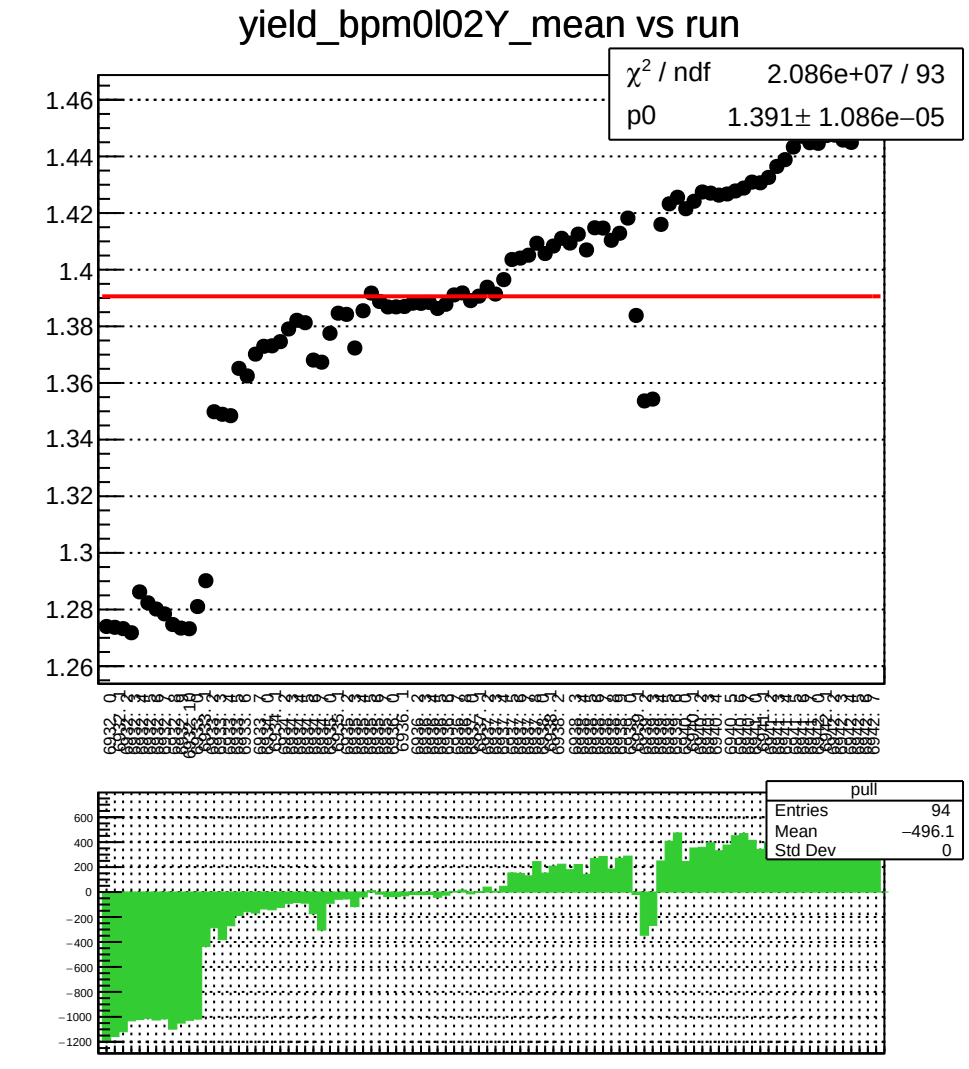

yield_bpm0l01Y_mean vs run
χ² / ndf 7.149e+07 / 93
p0 −5.887 ± 1.166e−05
−5.8
−5.85
−5.9
−5.95
−6
−6.05
pull
Entries 94
Mean 332.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
pull1D
Entries 94
Mean −1.783
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

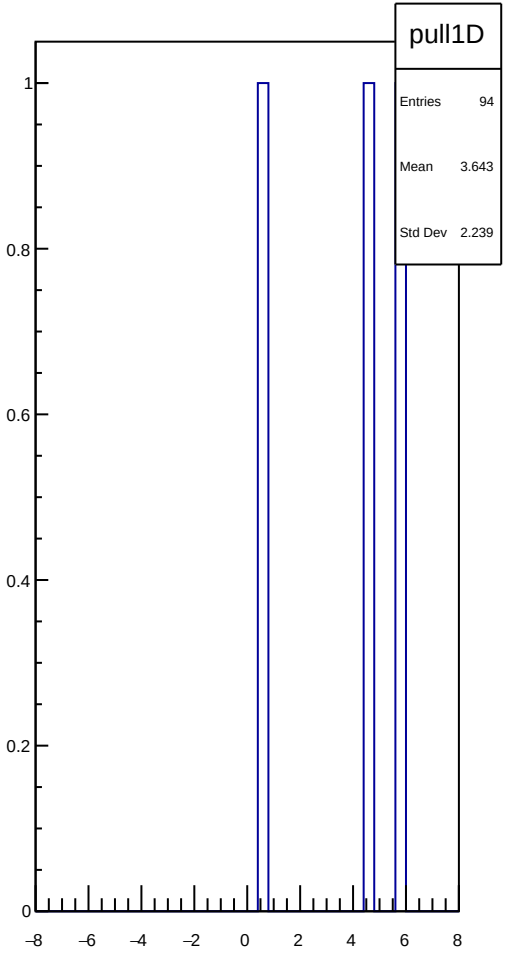

yield_bpm0l01Y_rms vs run
χ² / ndf 3.096e+05 / 93
p0 0.00994 ± 8.243e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

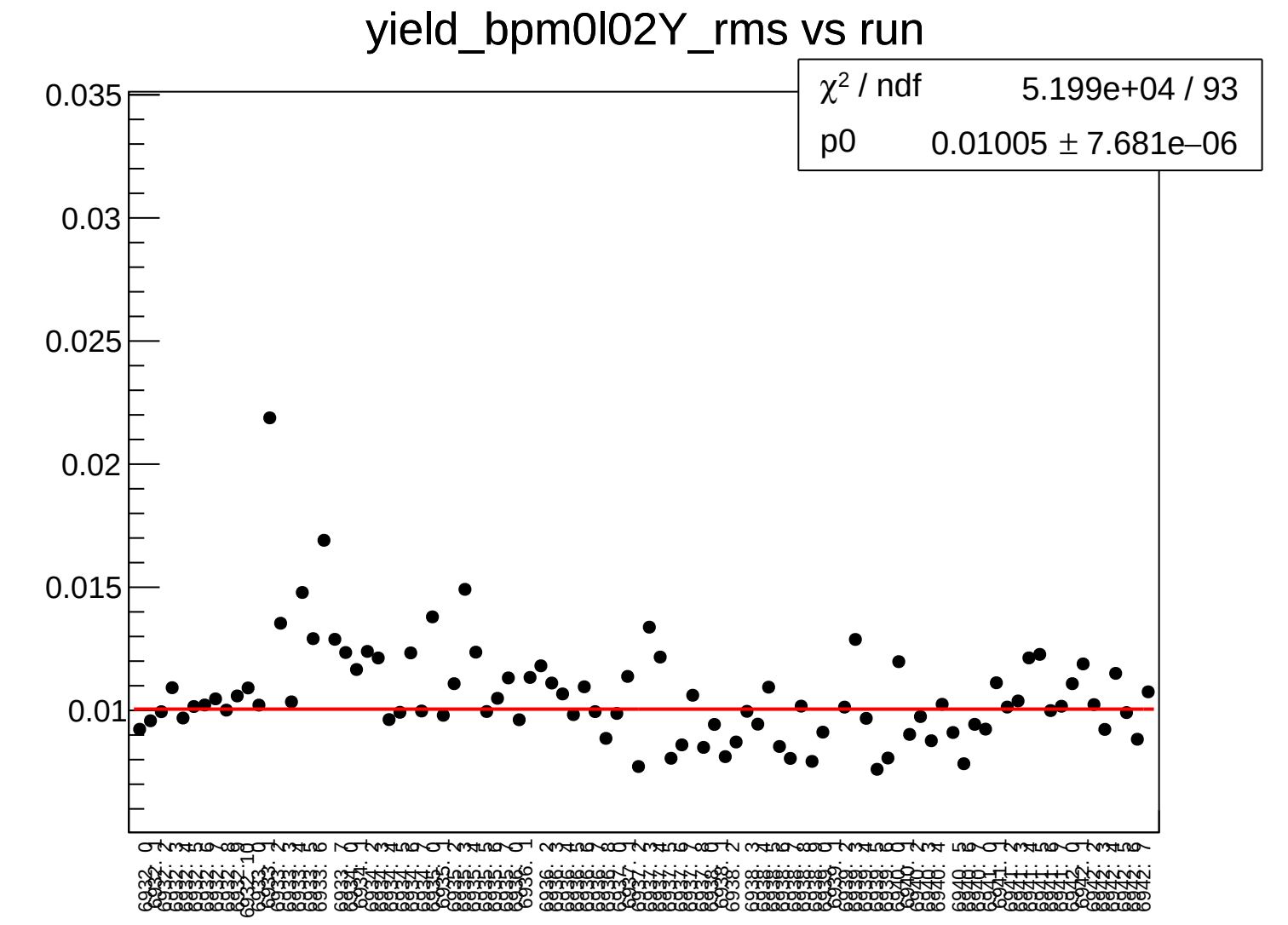

yield_bpm0l02X_mean vs run
χ² / ndf 2.405e+07 / 93
p0 −3.297 ± 1.794e−05
−3.1
−3.15
−3.2
−3.25
−3.3
−3.35
−3.4
−3.45
−3.5
pull
Entries 94
Mean −579.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

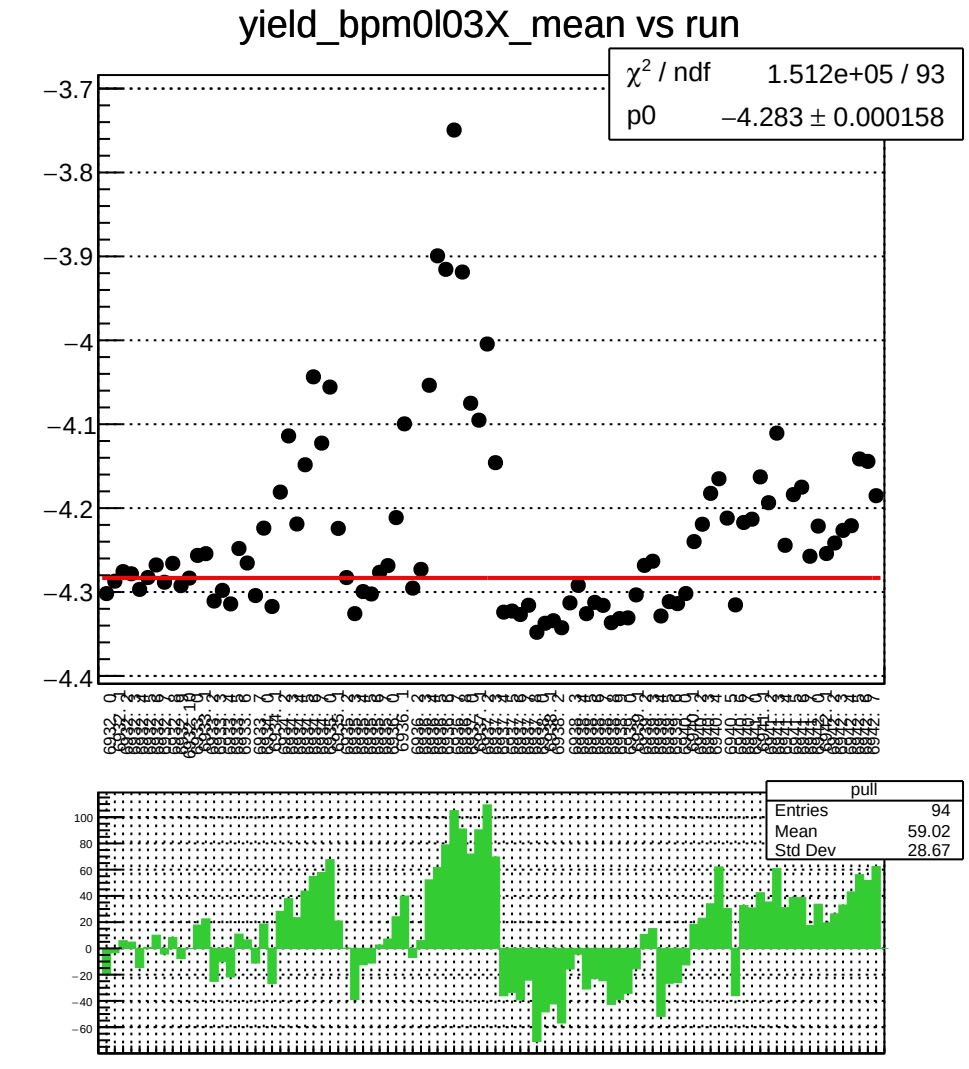

pull1D
Entries 94
Mean −0.616
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

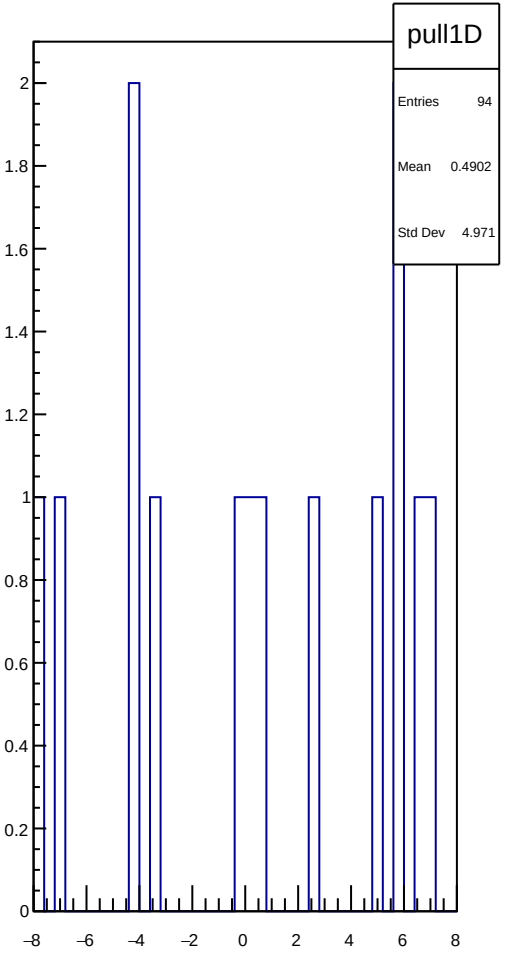

yield_bpm0l02X_rms vs run
χ² / ndf 2.696e+04 / 93
p0 0.01672 ± 1.269e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

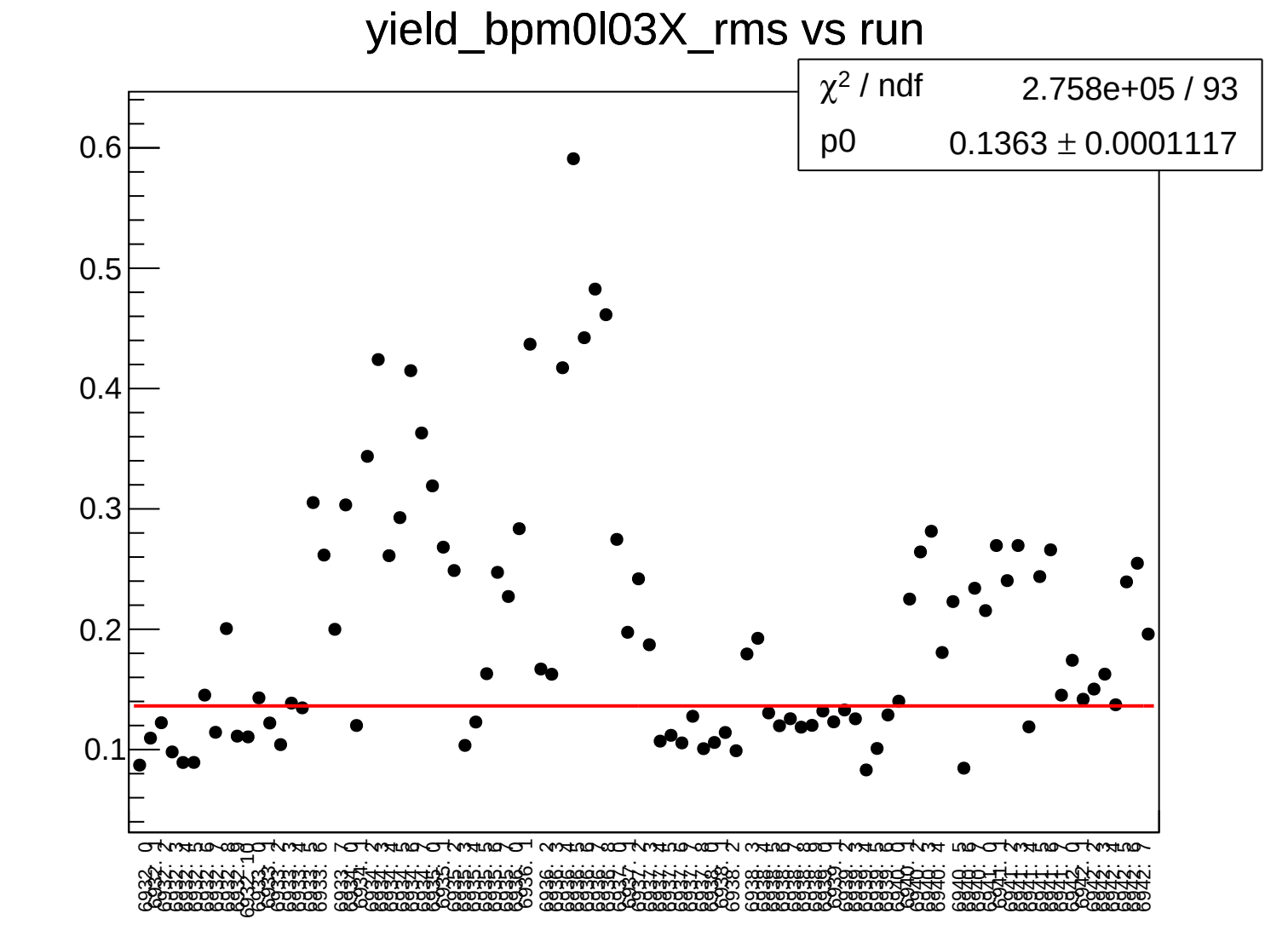

yield_bpm0l02Y_mean vs run
χ² / ndf 2.086e+07 / 93
p0 1.391± 1.086e−05
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32
1.3
1.28
1.26
pull
Entries 94
Mean −496.1
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

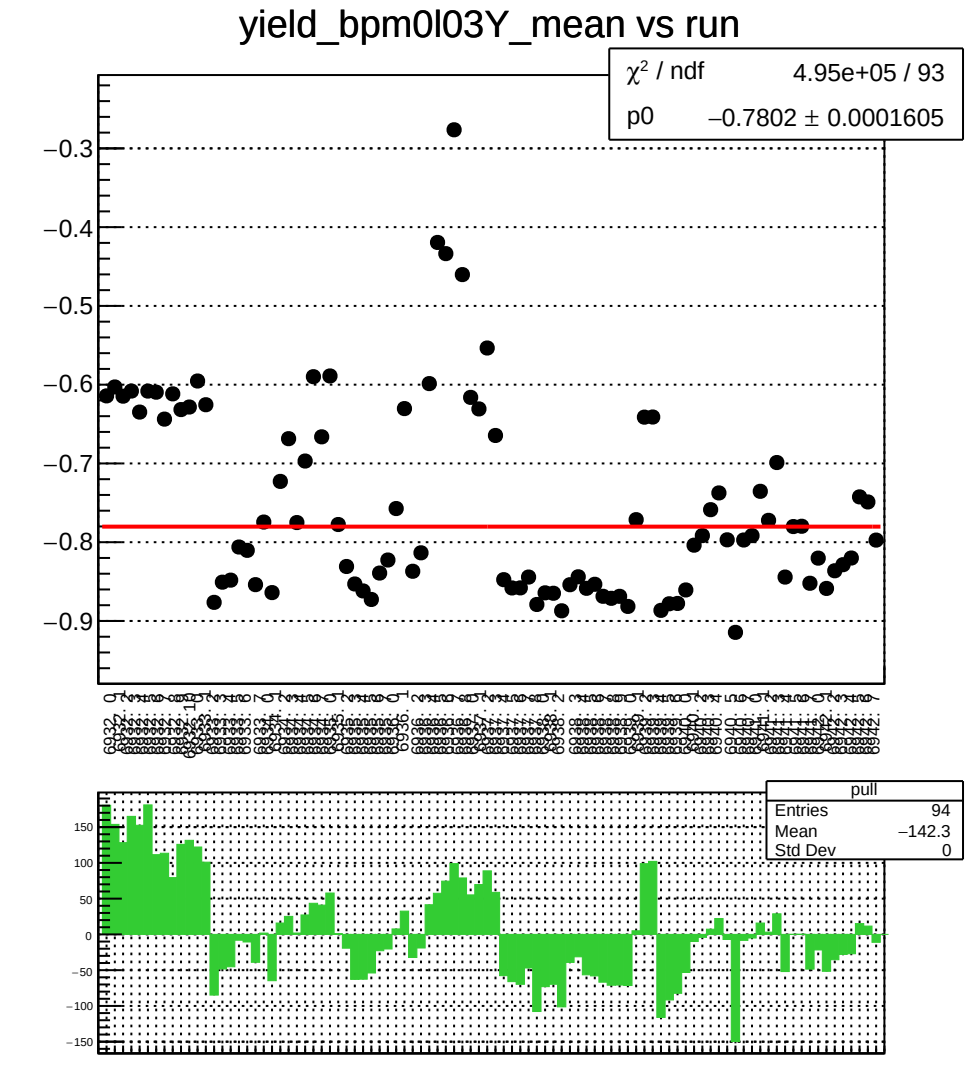

pull1D
Entries 94
Mean 3.643
Std Dev 2.239
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

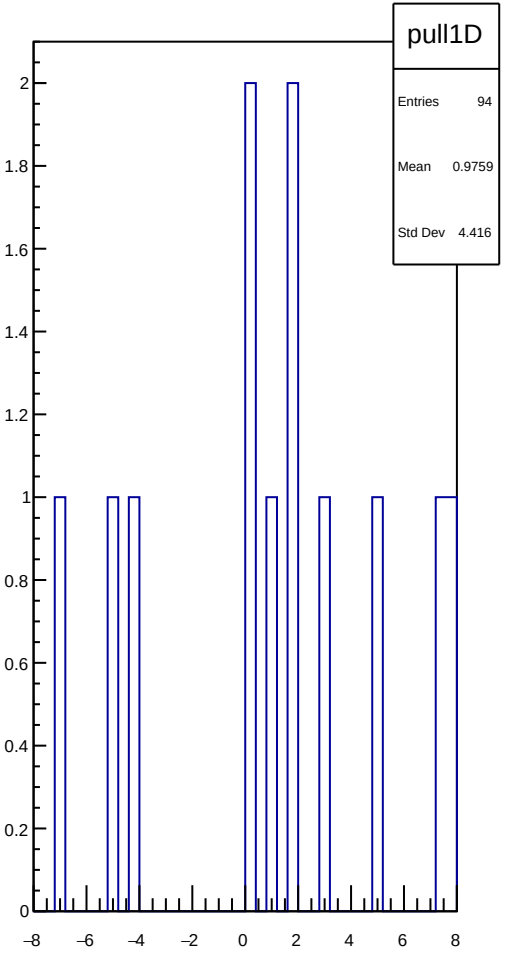

yield_bpm0l02Y_rms vs run
χ² / ndf 5.199e+04 / 93
p0 0.01005 ± 7.681e–06
0.035
0.03
0.025
0.02
0.015
0.01

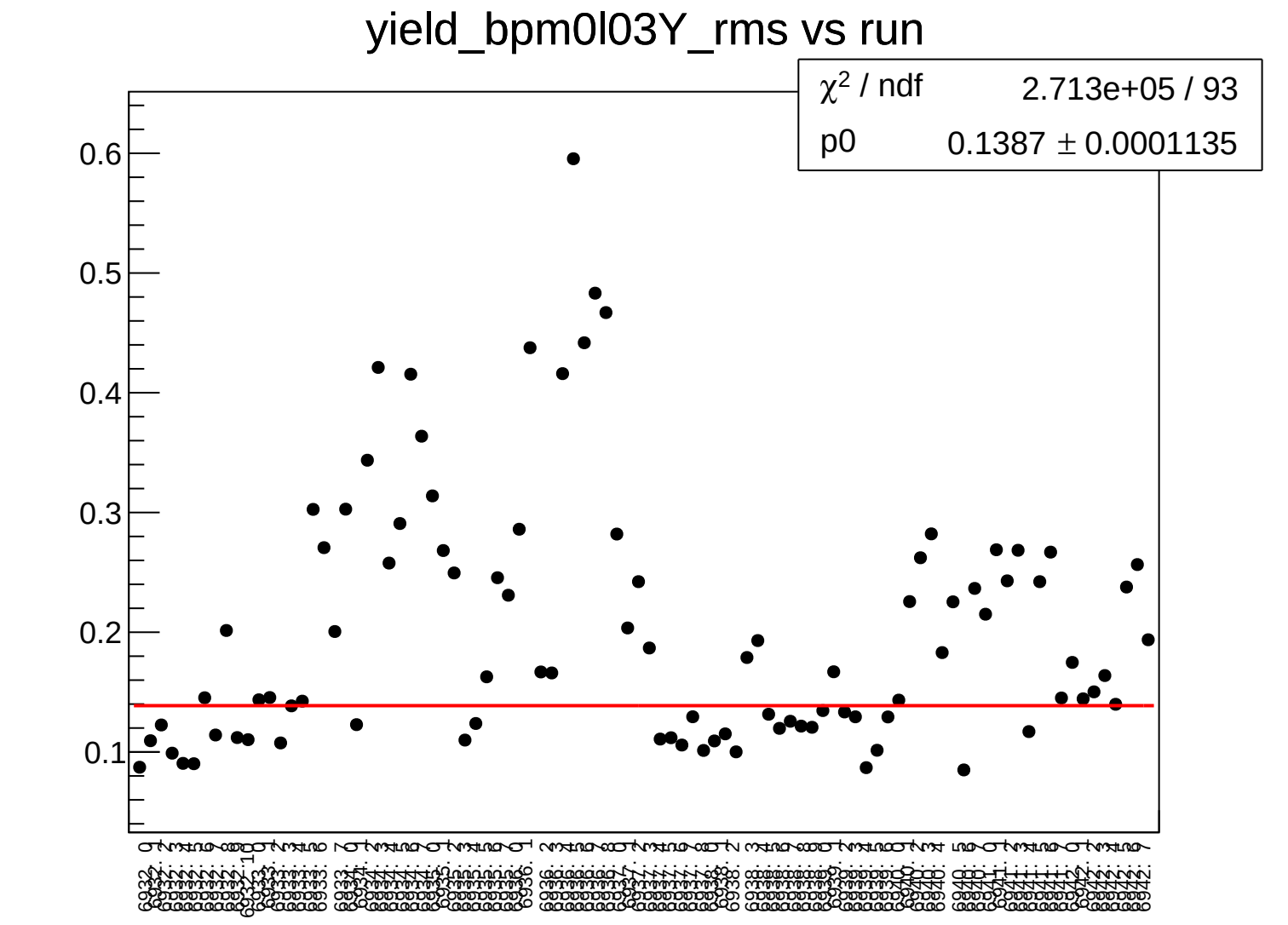

yield_bpm0l03X_mean vs run
χ² / ndf 1.512e+05 / 93
p0 −4.283 ± 0.000158
pull
Entries 94
Mean 59.02
Std Dev 28.67

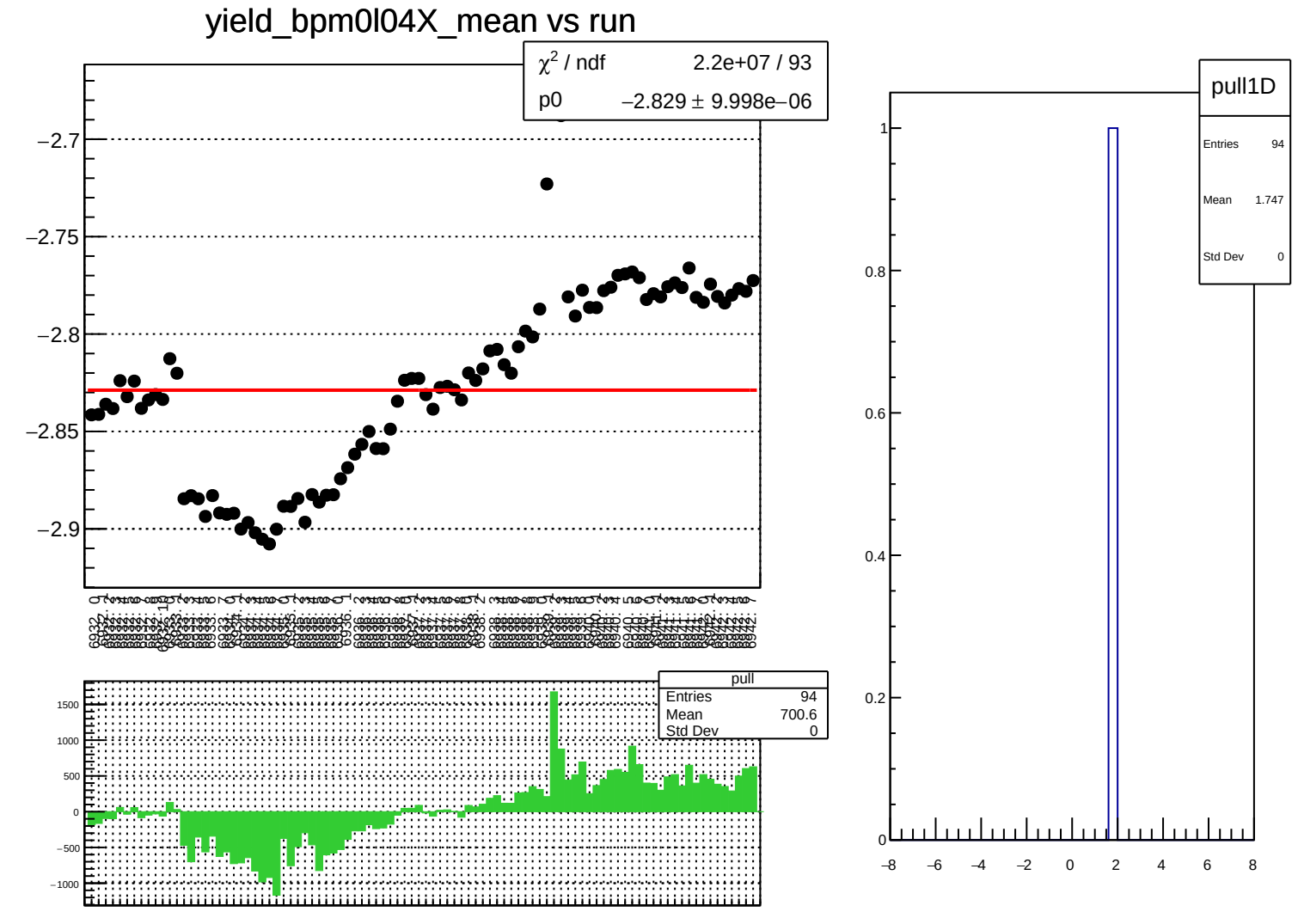

pull1D
Entries 94
Mean 0.4902
Std Dev 4.971

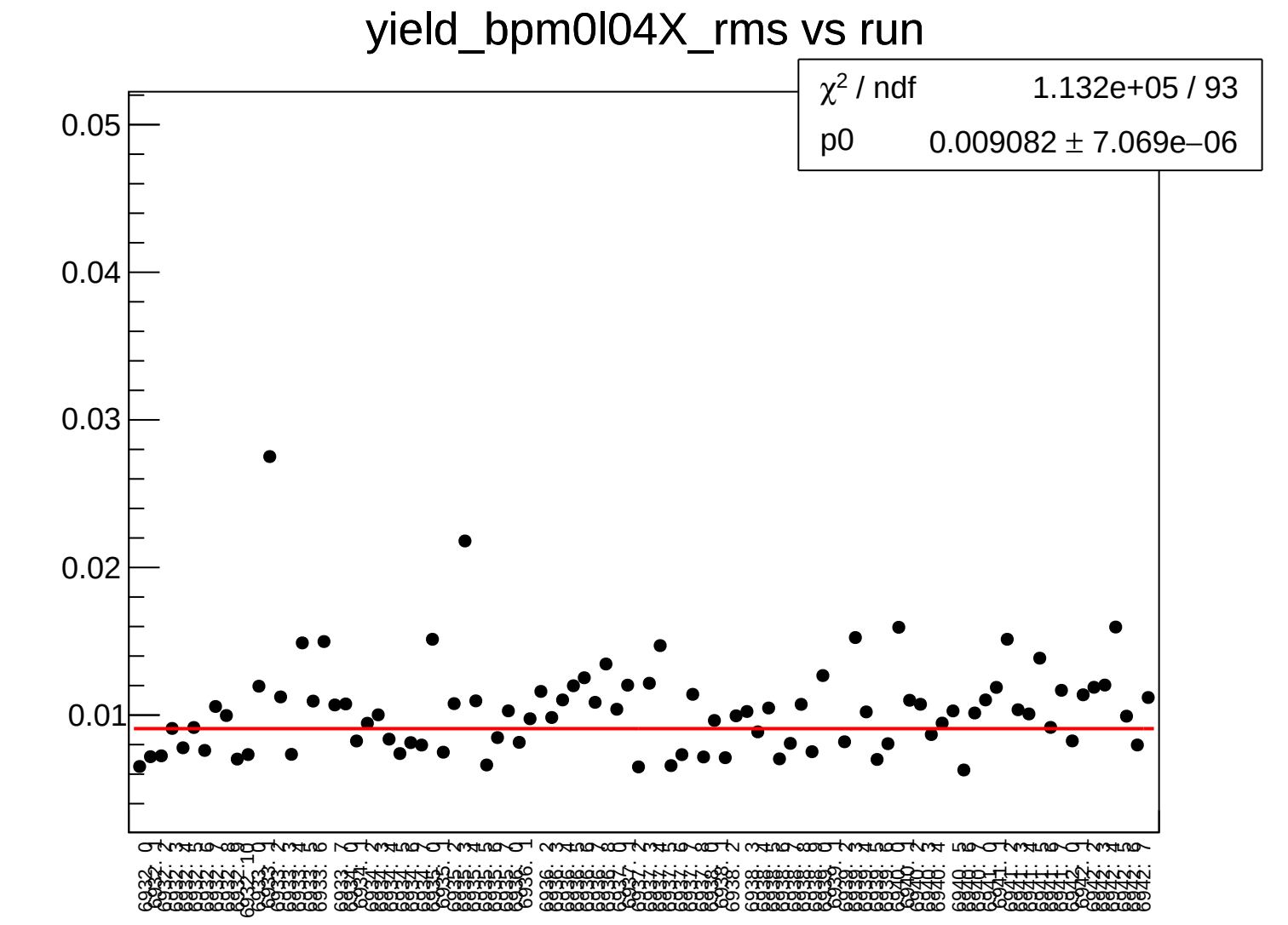

yield_bpm0l03X_rms vs run
χ² / ndf 2.758e+05 / 93
p0 0.1363 ± 0.0001117
0.6
0.5
0.4
0.3
0.2
0.1

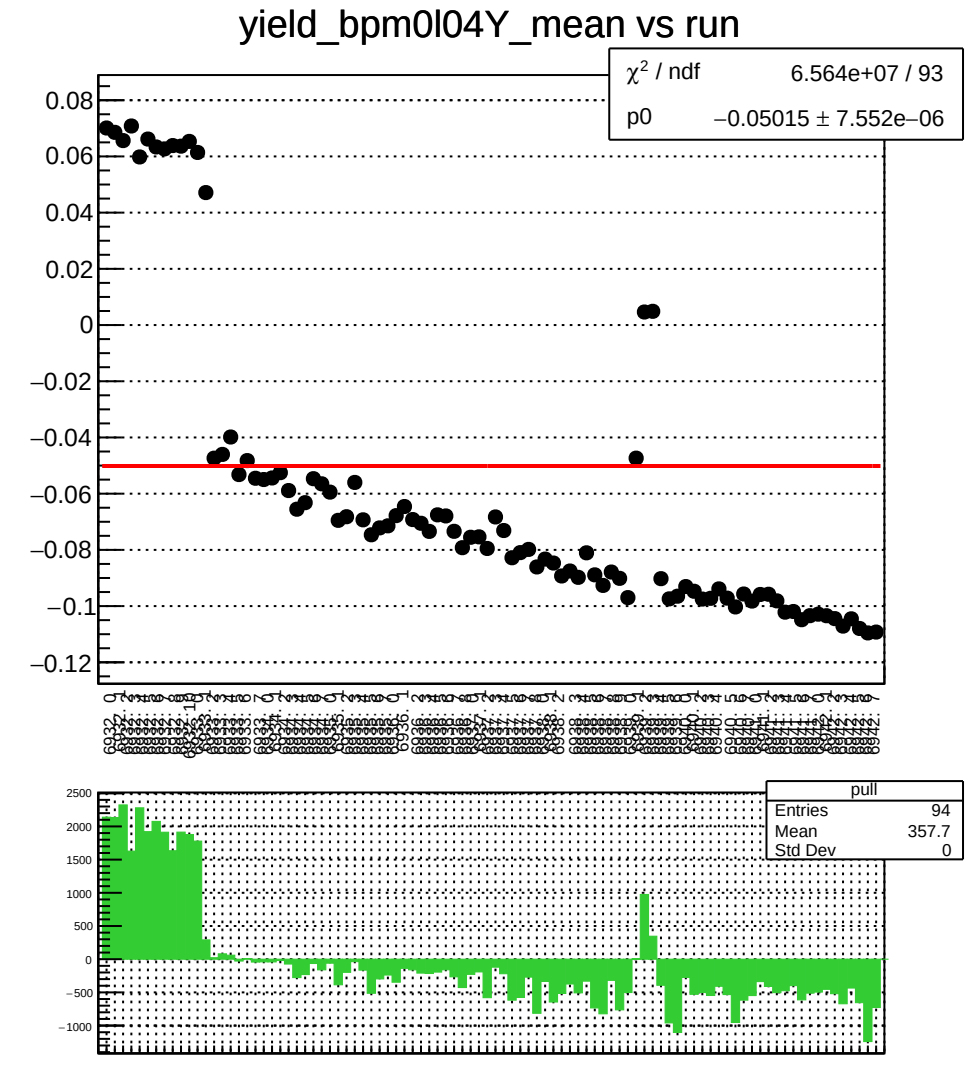

yield_bpm0l03Y_mean vs run
χ² / ndf 4.95e+05 / 93
p0 −0.7802 ± 0.0001605
pull
Entries 94
Mean −142.3
Std Dev 0

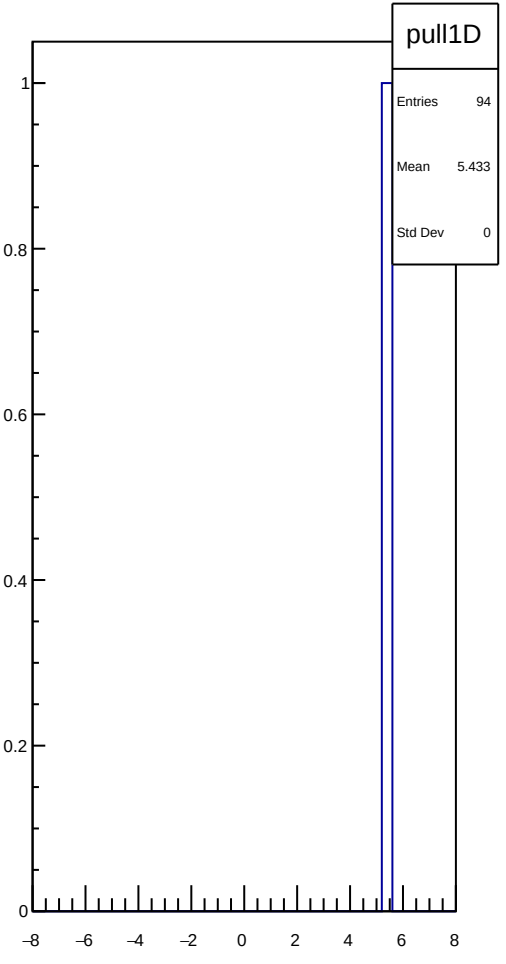

pull1D
Entries 94
Mean 0.9759
Std Dev 4.416

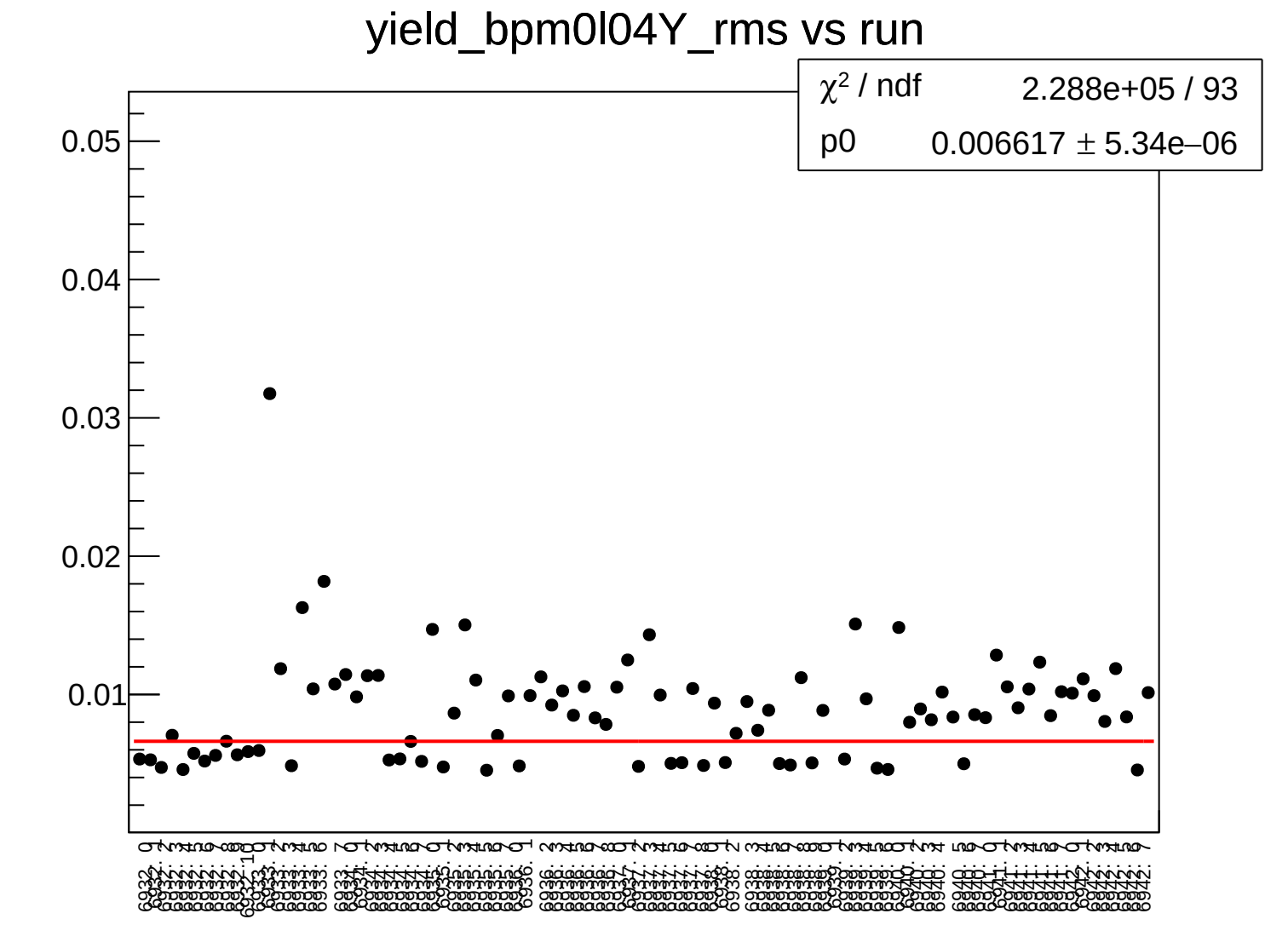

yield_bpm0l03Y_rms vs run
χ² / ndf 2.713e+05 / 93
p0 0.1387 ± 0.0001135
0.6
0.5
0.4
0.3
0.2
0.1

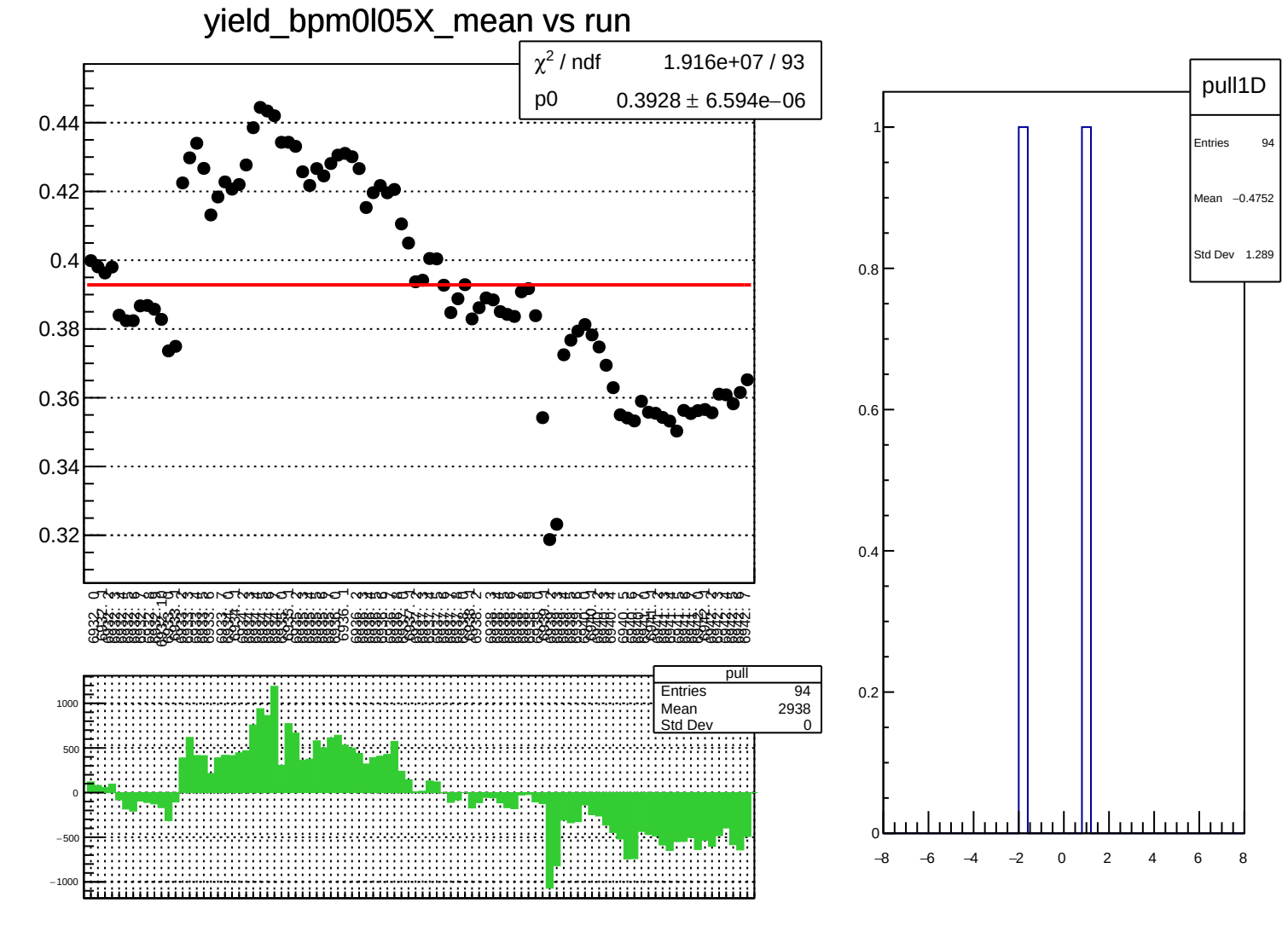

yield_bpm0l04X_mean vs run
χ² / ndf 2.2e+07 / 93
p0 −2.829 ± 9.998e−06
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 94
Mean 700.6
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 94
Mean 1.747
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

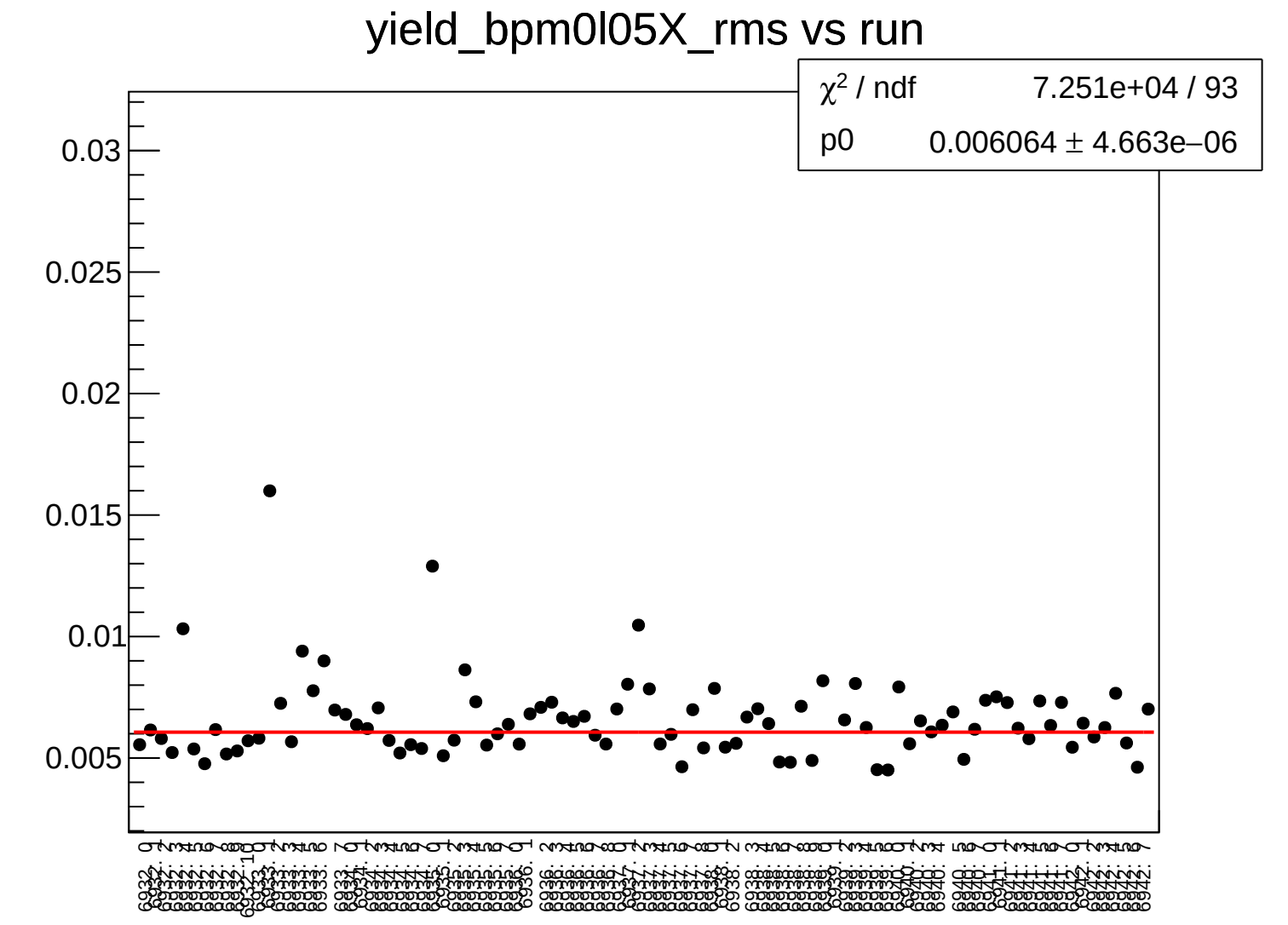

yield_bpm0l04X_rms vs run
χ² / ndf 1.132e+05 / 93
p0 0.009082 ± 7.069e−06
0.05
0.04
0.03
0.02
0.01

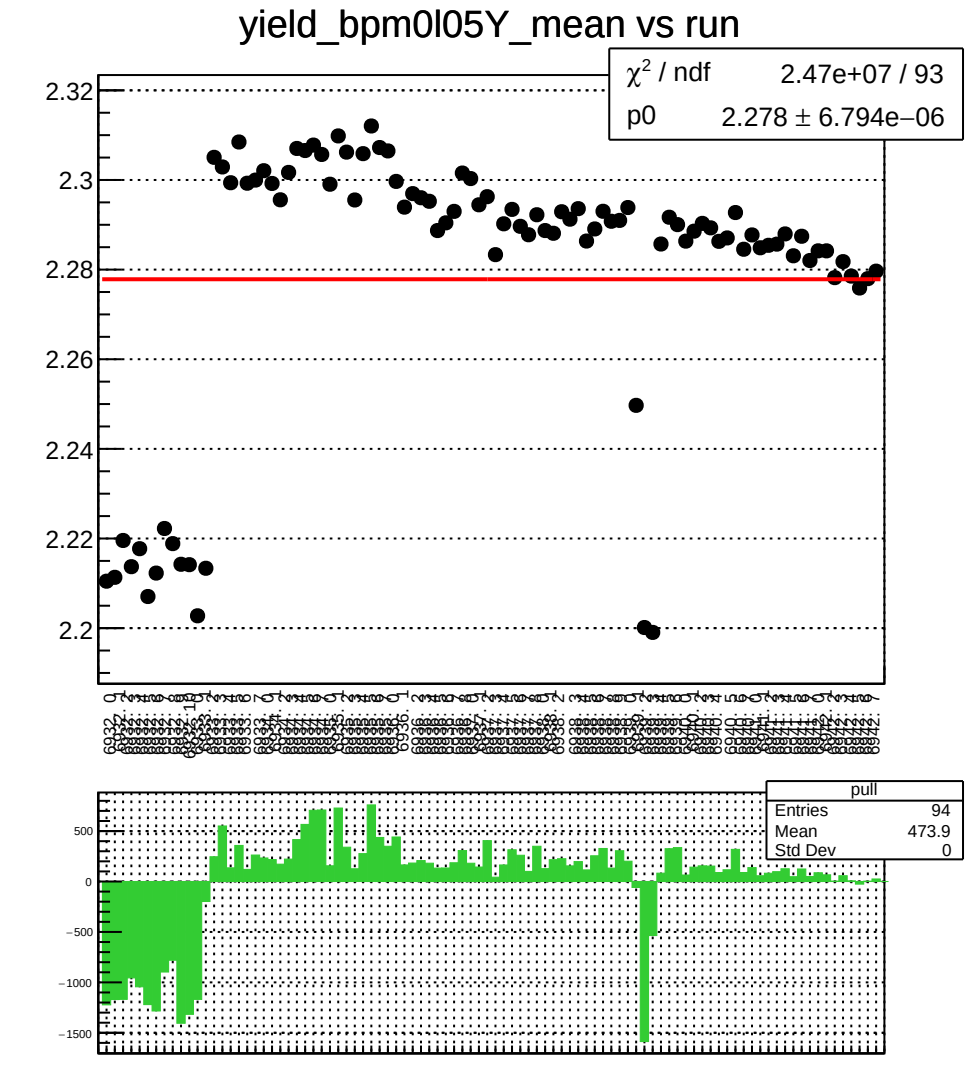

yield_bpm0l04Y_mean vs run
χ² / ndf 6.564e+07 / 93
p0 −0.05015 ± 7.552e−06
pull
Entries 94
Mean 357.7
Std Dev 0

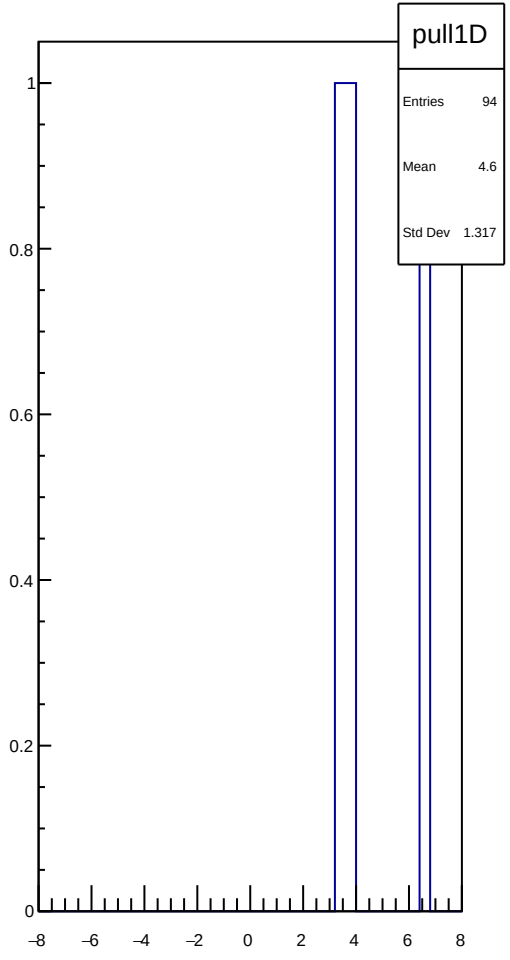

pull1D
Entries 94
Mean 5.433
Std Dev 0

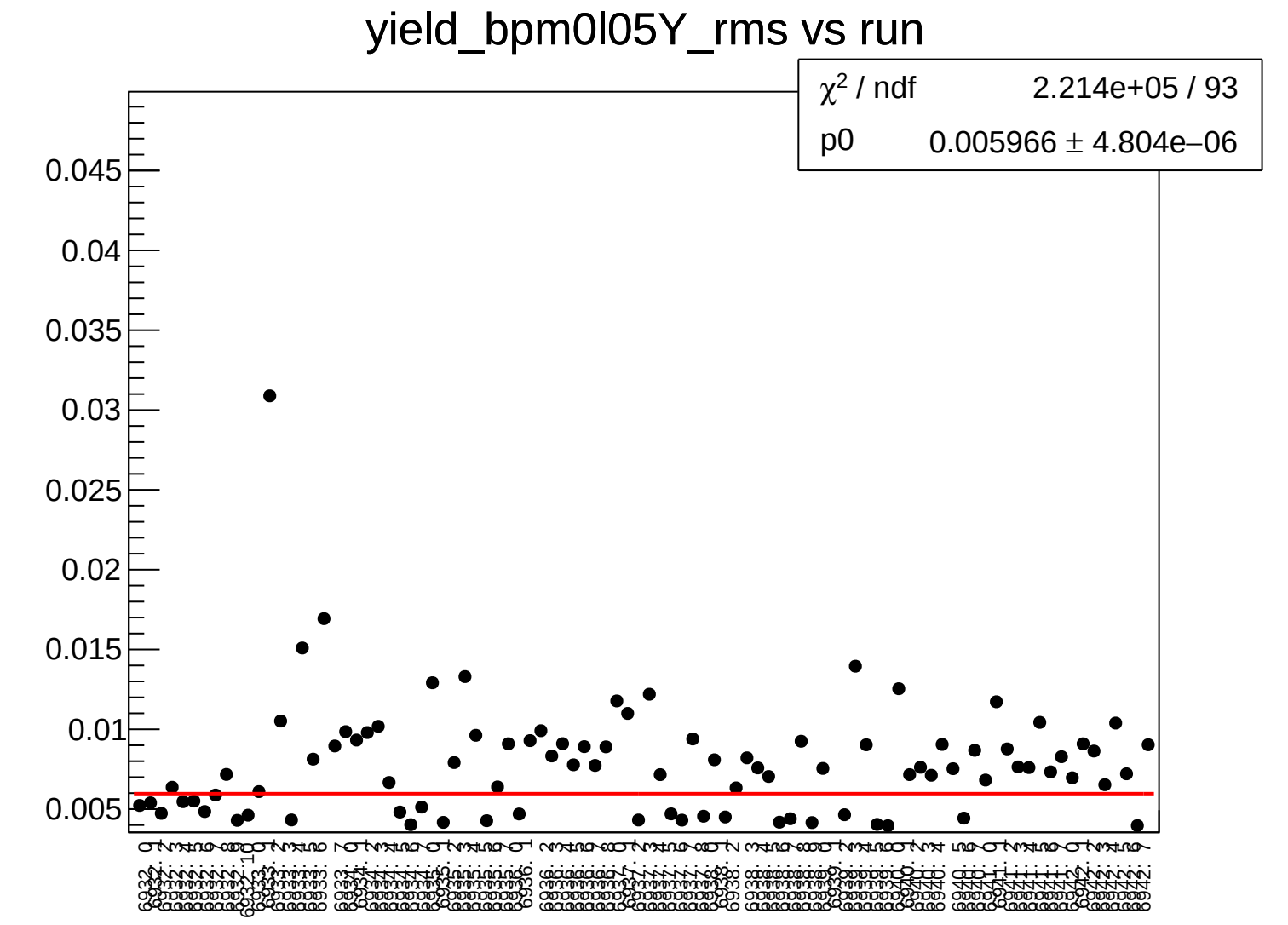

yield_bpm0l04Y_rms vs run
χ² / ndf 2.288e+05 / 93
p0 0.006617 ± 5.34e−06
0.05
0.04
0.03
0.02
0.01

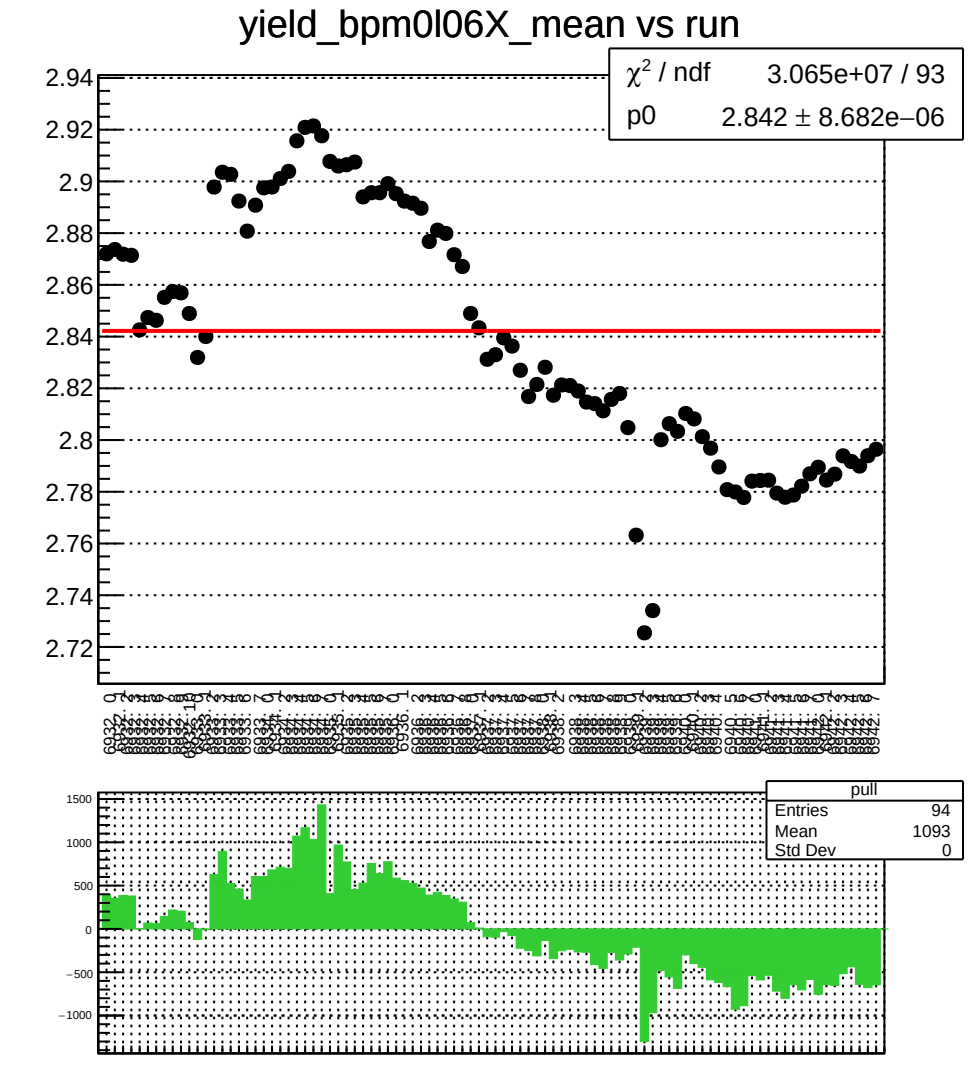

yield_bpm0l05X_mean vs run
χ² / ndf 1.916e+07 / 93
p0 0.3928 ± 6.594e−06
0.44
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 94
Mean 2938
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 94
Mean −0.4752
Std Dev 1.289
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

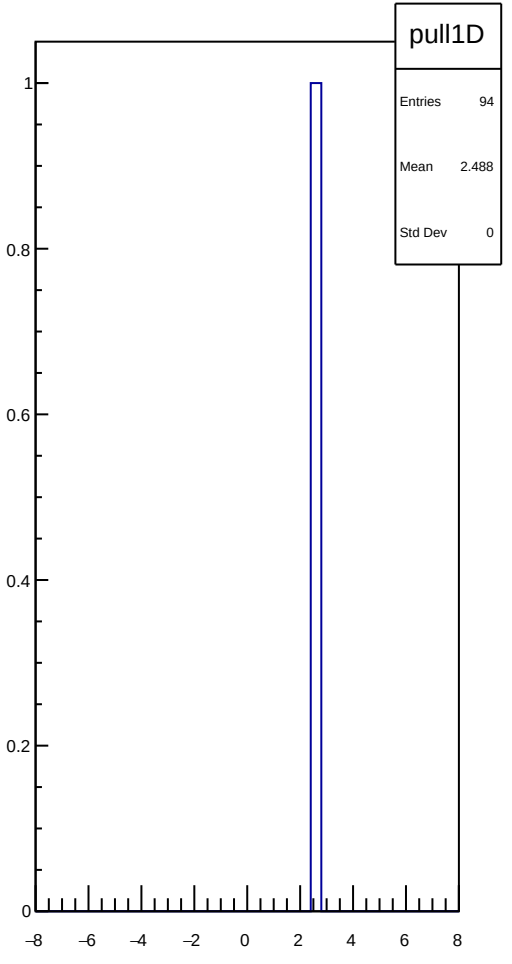

yield_bpm0l05X_rms vs run
χ^2 / ndf 7.251e+04 / 93
p0 0.006064 ± 4.663e−06
0.03
0.025
0.02
0.015
0.01
0.005

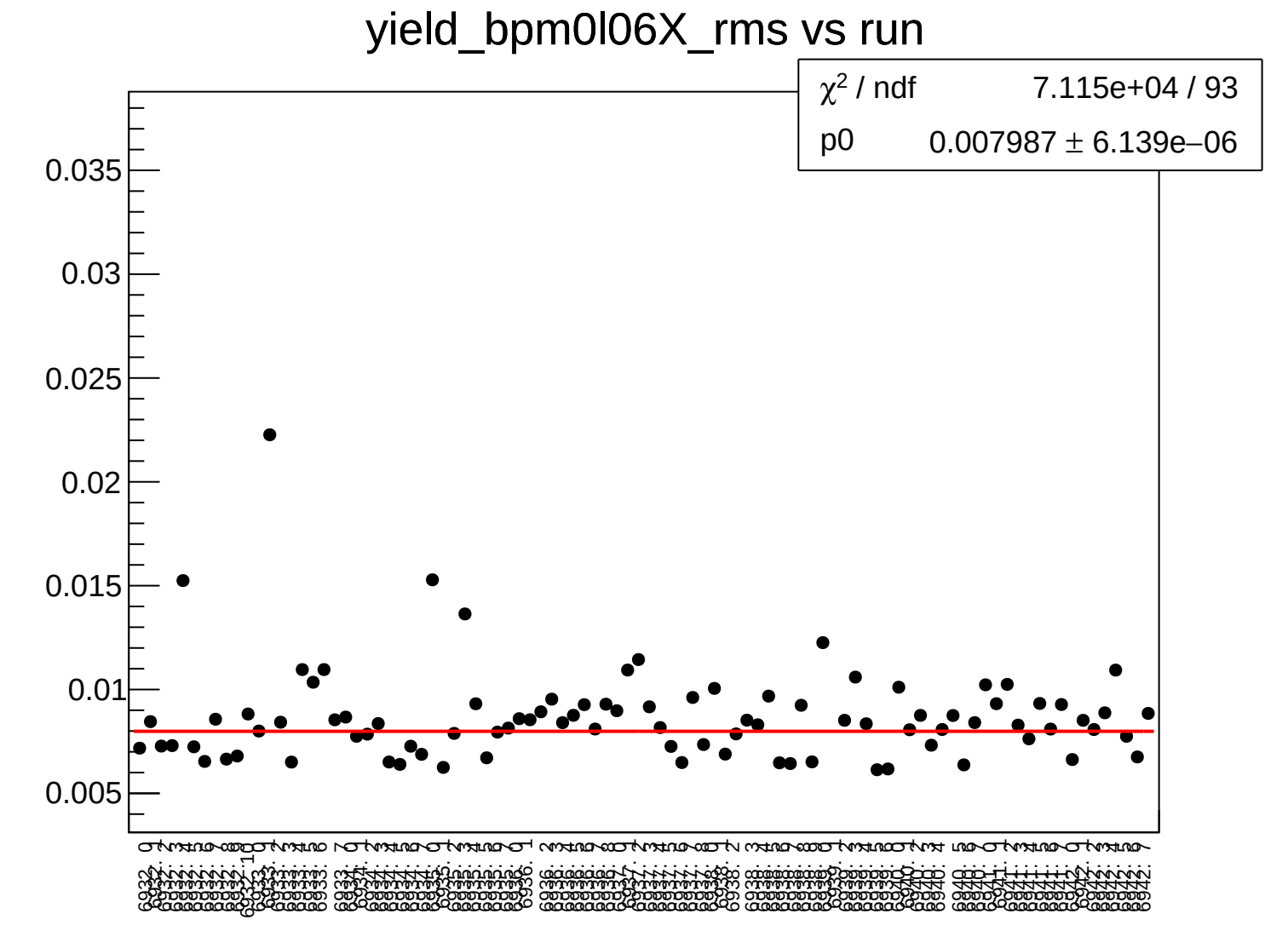

yield_bpm0l05Y_mean vs run
χ² / ndf 2.47e+07 / 93
p0 2.278 ± 6.794e−06
2.32
2.3
2.28
2.26
2.24
2.22
2.2
pull
Entries 94
Mean 473.9
Std Dev 0
500
0
−500
−1000
−1500

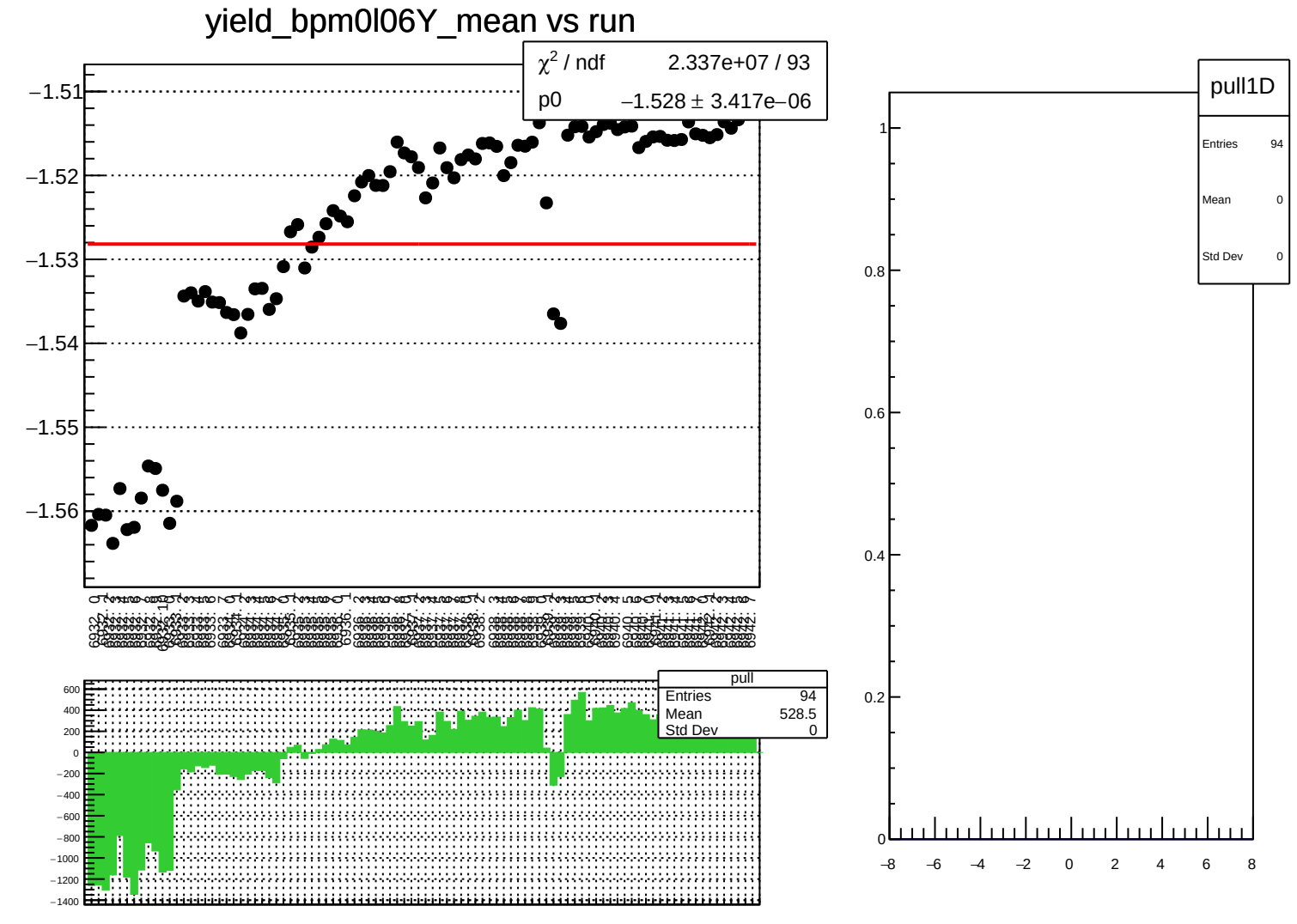

pull1D
Entries 94
Mean 4.6
Std Dev 1.317
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

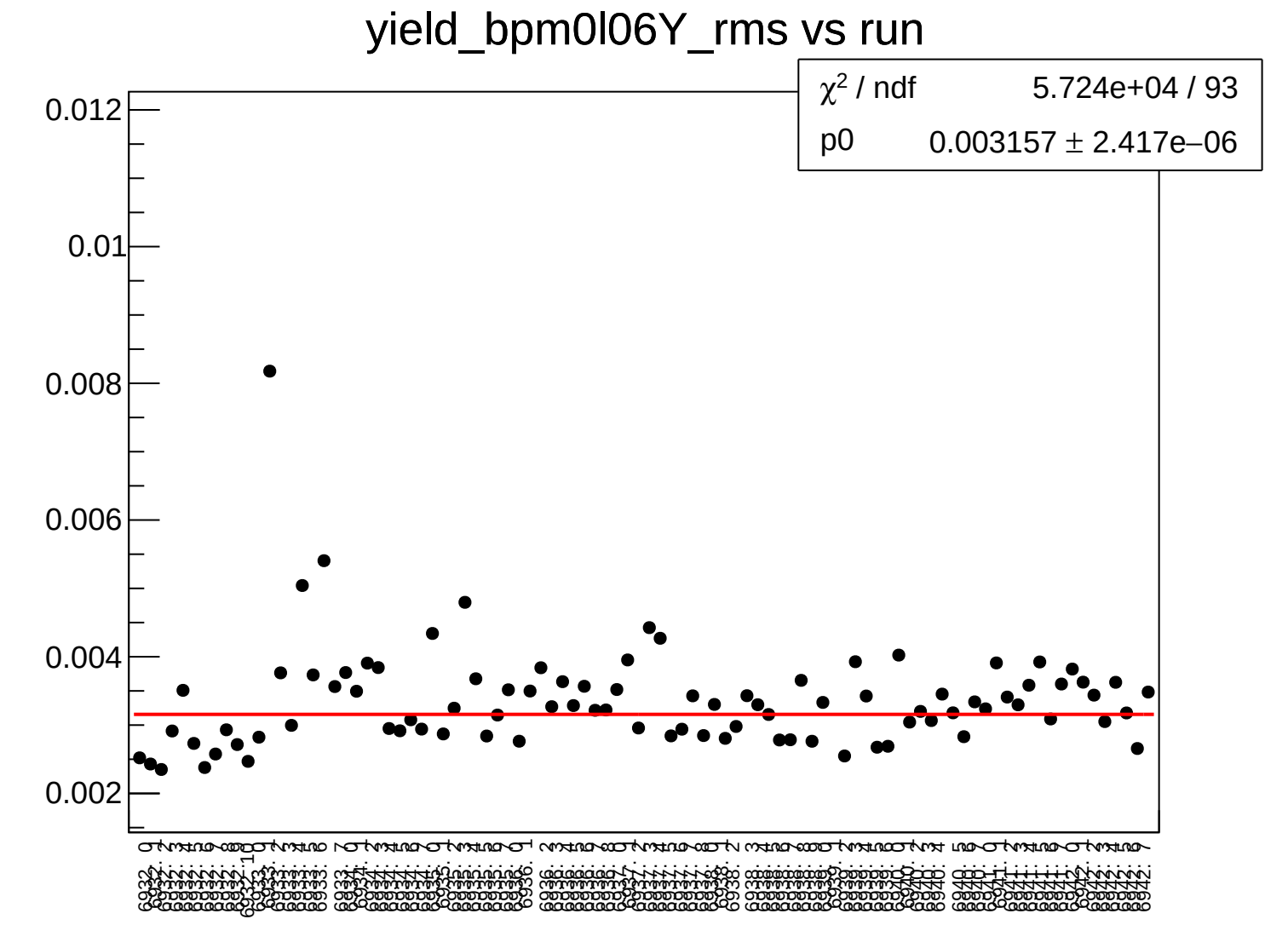

yield_bpm0l05Y_rms vs run
χ² / ndf 2.214e+05 / 93
p0 0.005966 ± 4.804e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

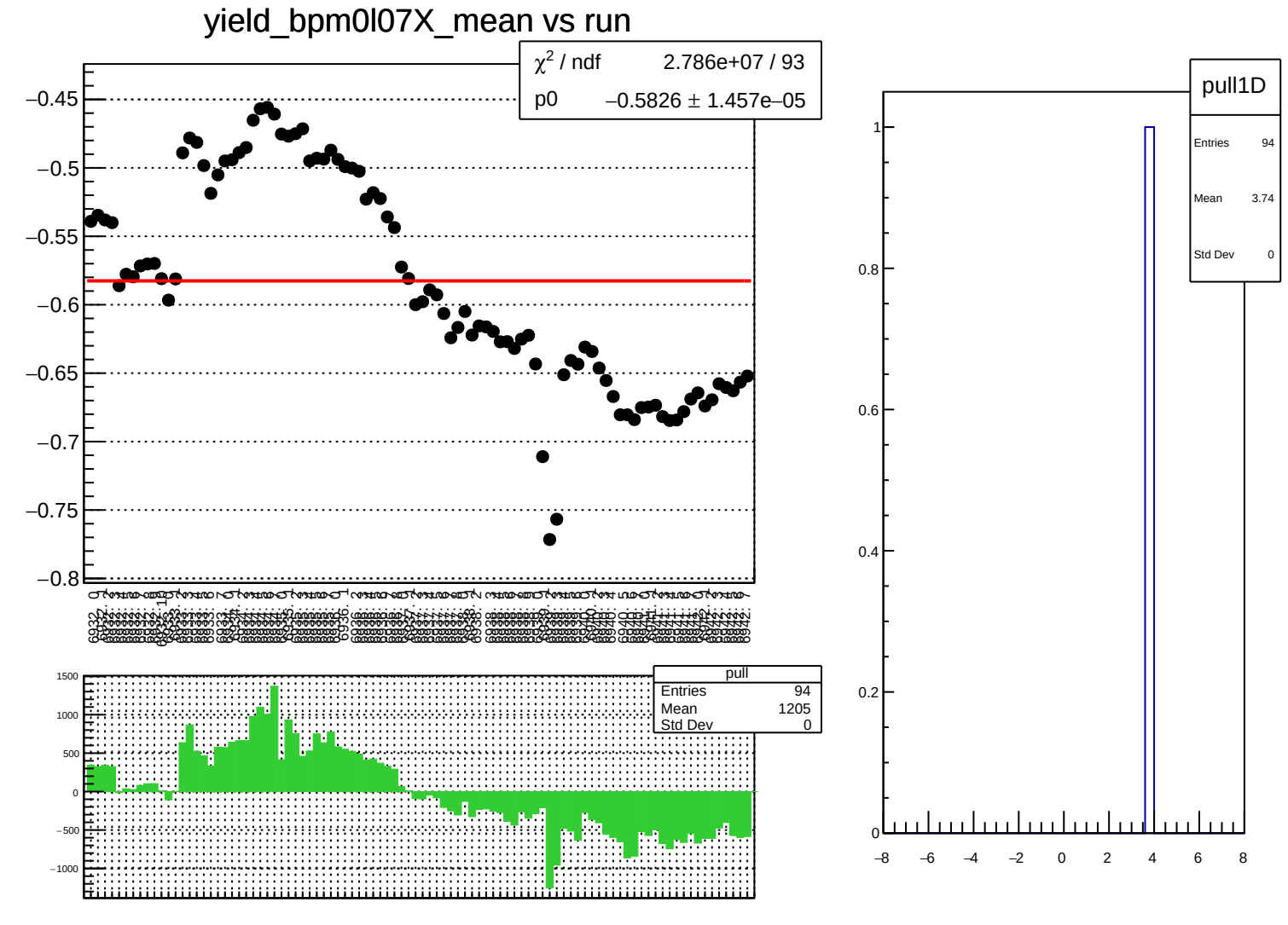

yield_bpm0l06X_mean vs run
χ² / ndf 3.065e+07 / 93
p0 2.842 ± 8.682e−06
2.94
2.92
2.9
2.88
2.86
2.84
2.82
2.8
2.78
2.76
2.74
2.72
pull
Entries 94
Mean 1093
Std Dev 0
1500
1000
500
0
−500
−1000

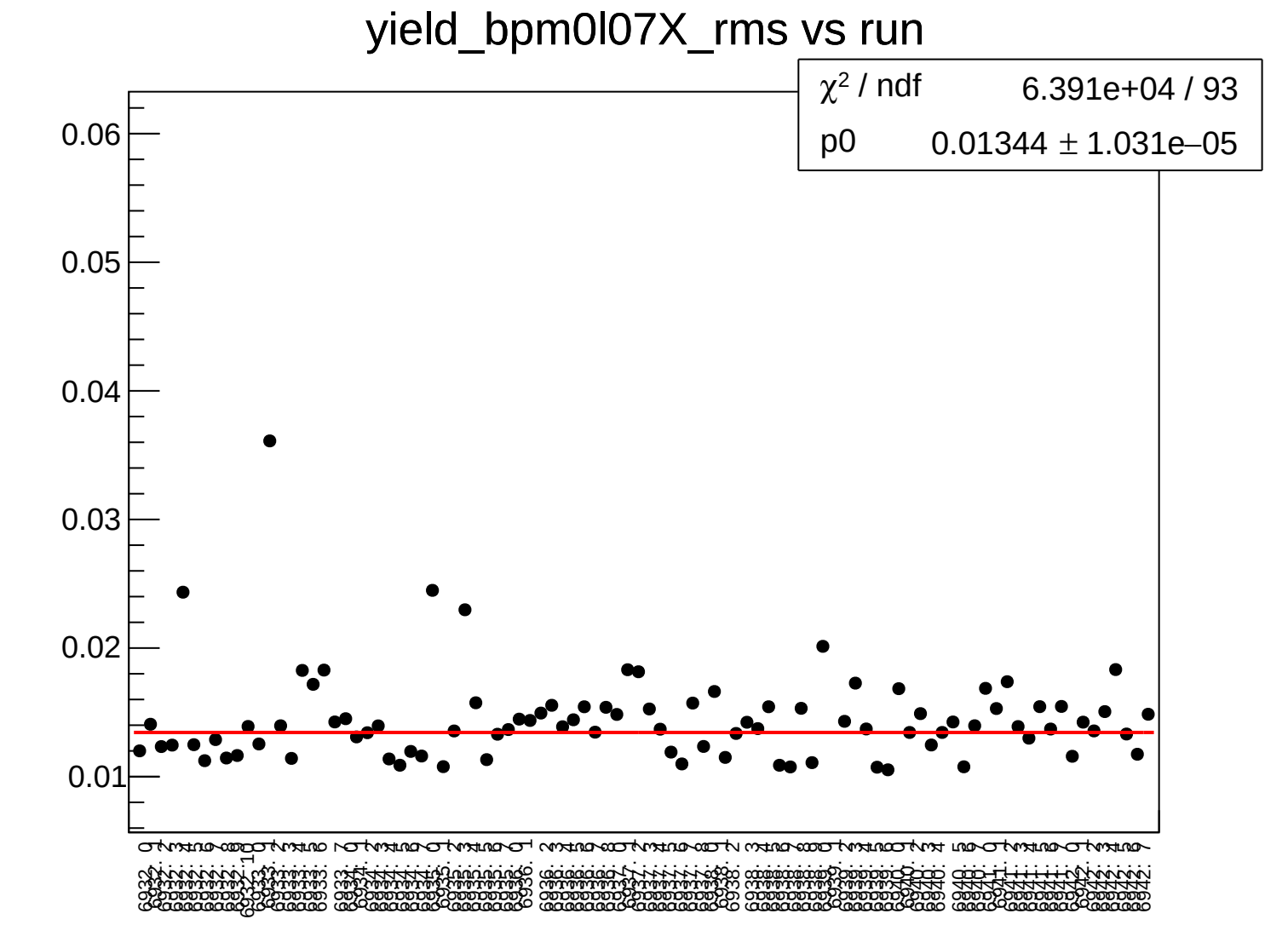

pull1D
Entries 94
Mean 2.488
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

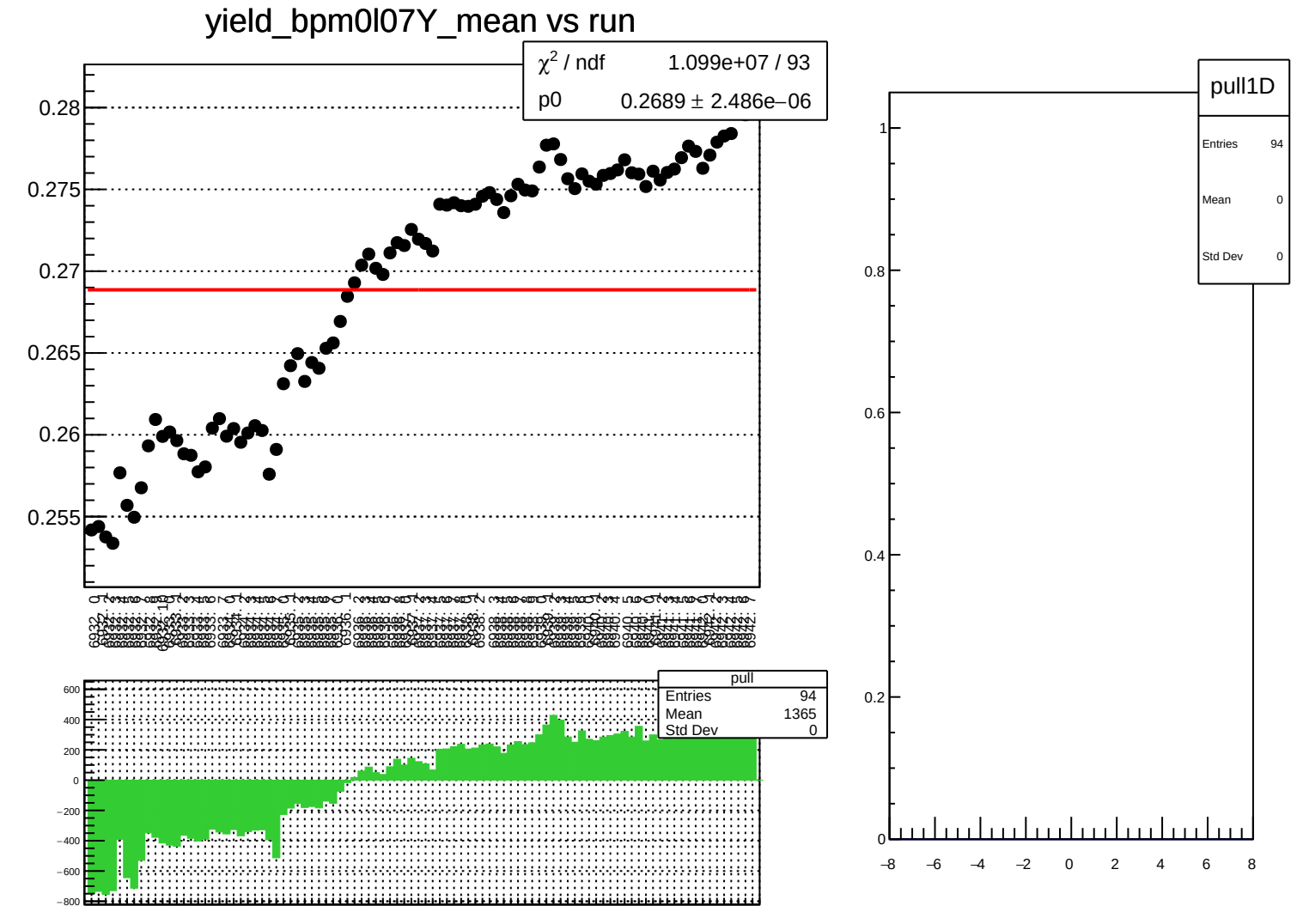

yield_bpm0l06X_rms vs run
χ² / ndf 7.115e+04 / 93
p0 0.007987 ± 6.139e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

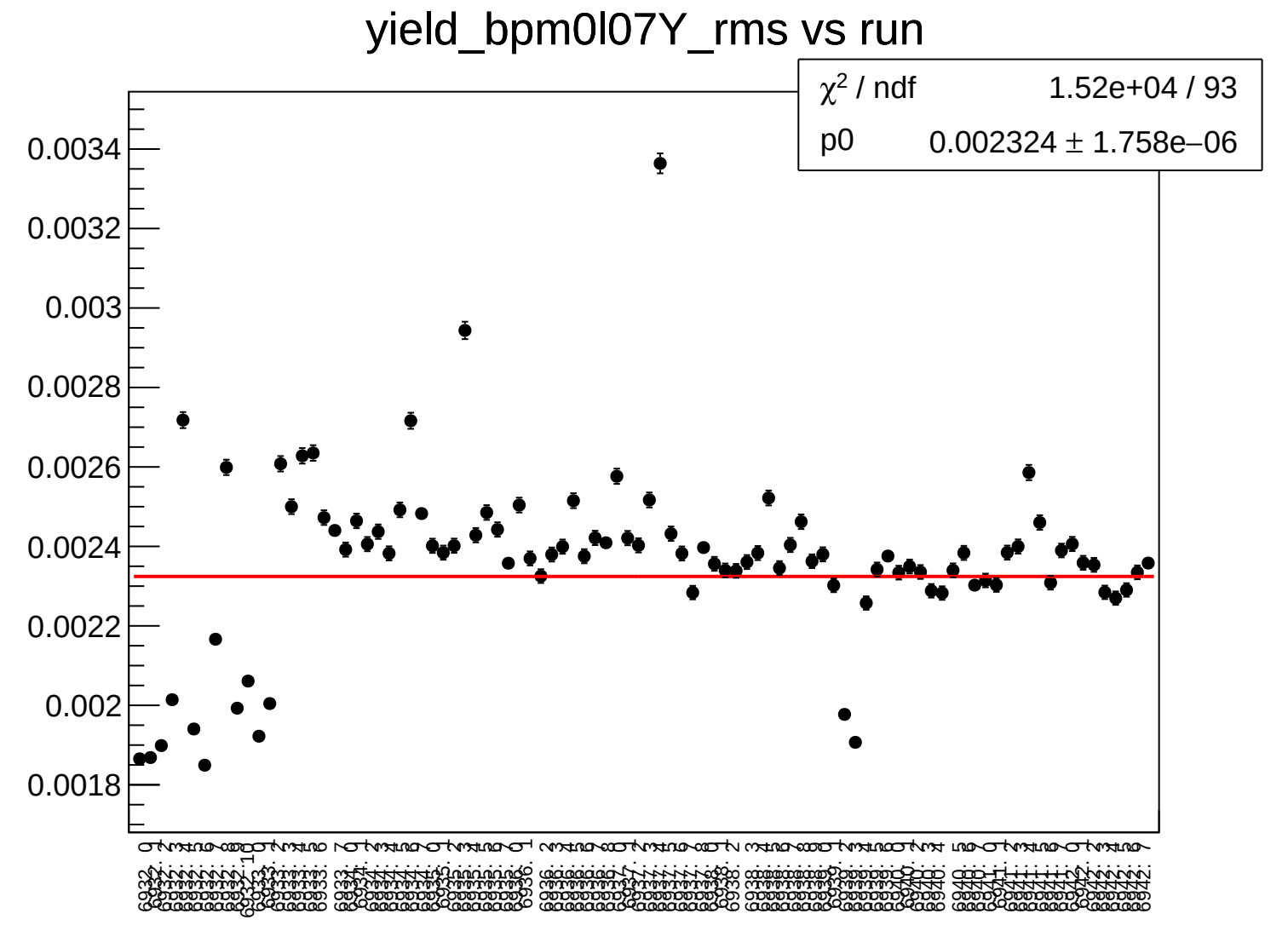

yield_bpm0l06Y_mean vs run
χ² / ndf 2.337e+07 / 93
p0 −1.528 ± 3.417e−06
−1.51
−1.52
−1.53
−1.54
−1.55
−1.56
pull
Entries 94
Mean 528.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

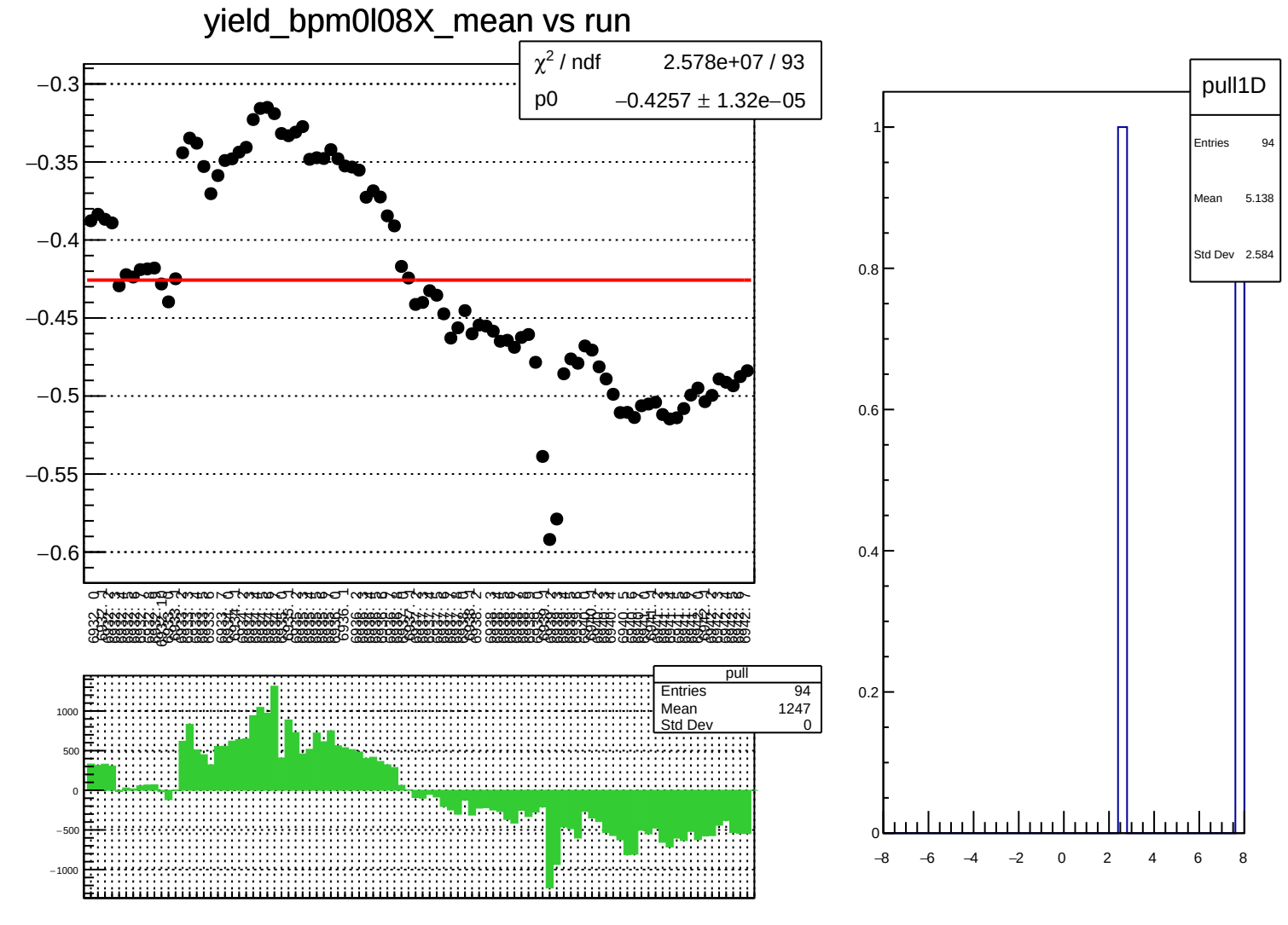

yield_bpm0l06Y_rms vs run
χ² / ndf 5.724e+04 / 93
p0 0.003157 ± 2.417e−06
0.012
0.01
0.008
0.006
0.004
0.002

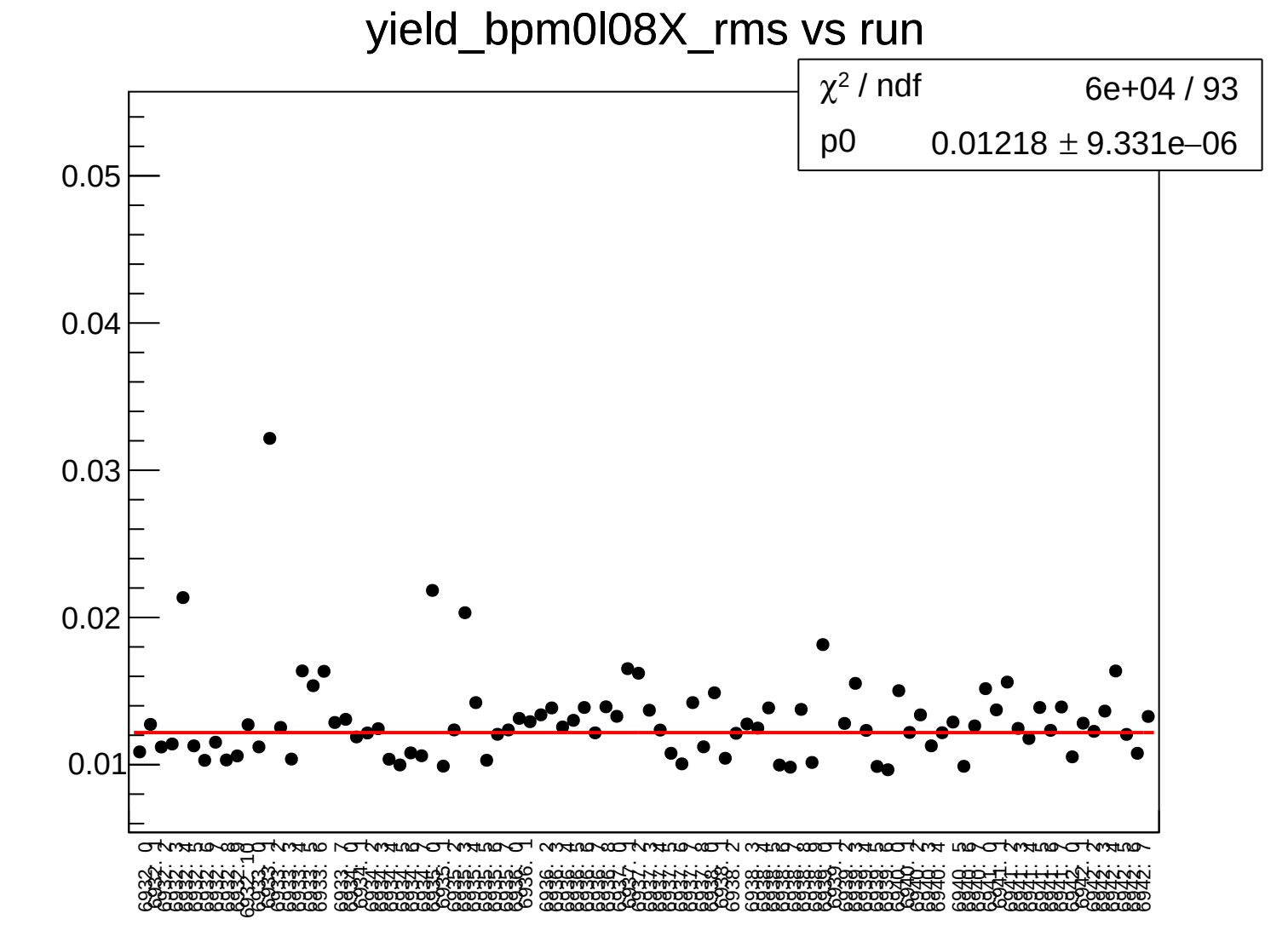

yield_bpm0l07X_mean vs run
χ² / ndf 2.786e+07 / 93
p0 −0.5826 ± 1.457e−05
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 94
Mean 1205
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 94
Mean 3.74
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

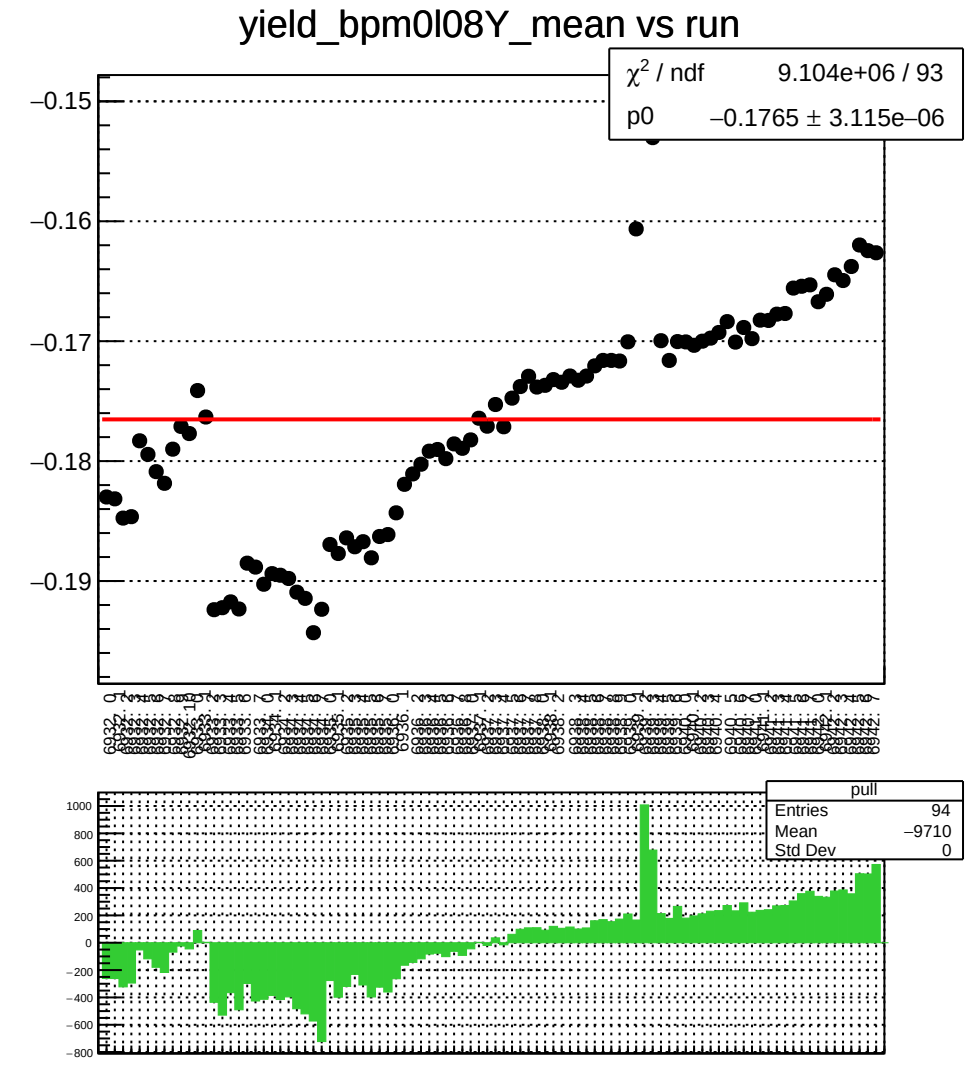

yield_bpm0l07X_rms vs run
χ² / ndf 6.391e+04 / 93
p0 0.01344 ± 1.031e–05
0.06
0.05
0.04
0.03
0.02
0.01

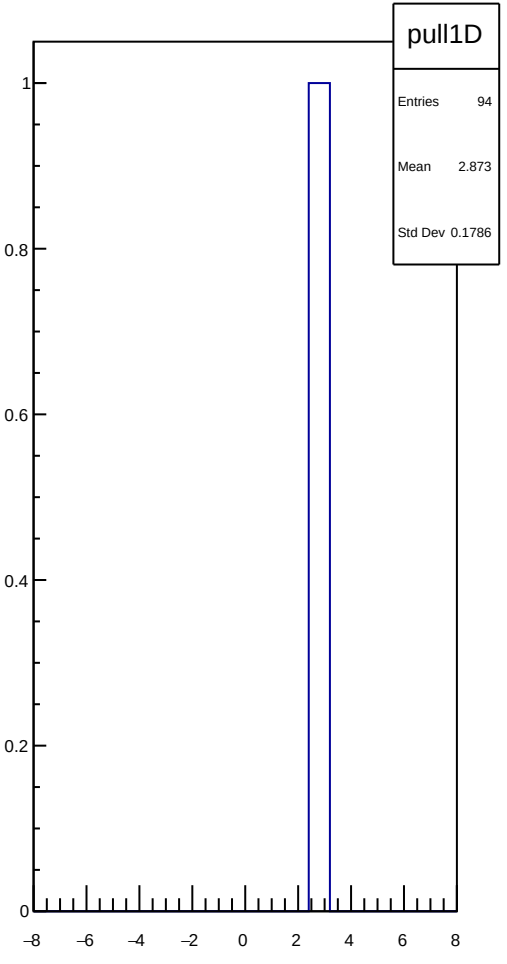

yield_bpm0l07Y_mean vs run
χ² / ndf 1.099e+07 / 93
p0 0.2689 ± 2.486e−06
0.28
0.275
0.27
0.265
0.26
0.255
pull
Entries 94
Mean 1365
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

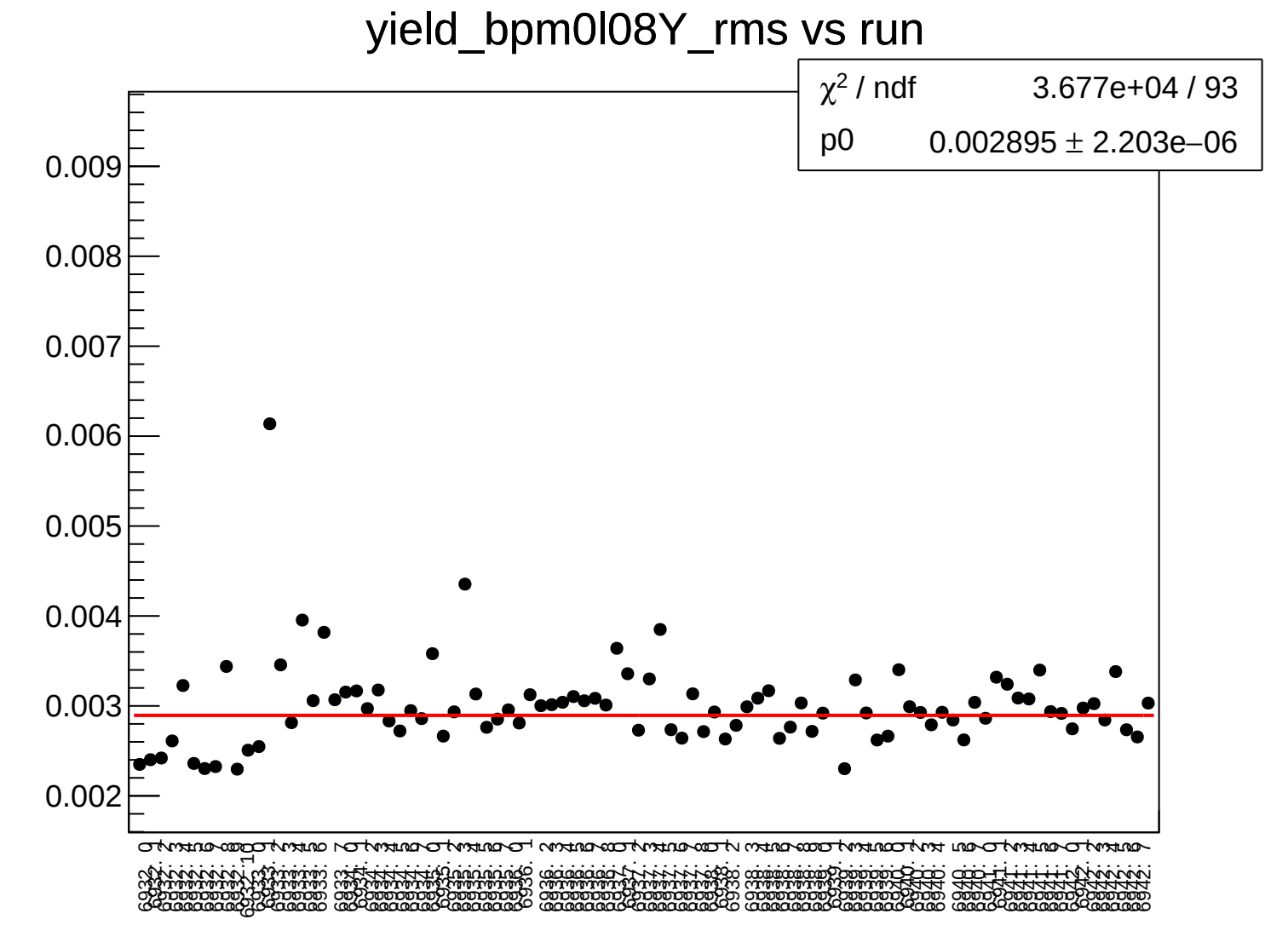

yield_bpm0l07Y_rms vs run
χ² / ndf 1.52e+04 / 93
p0 0.002324 ± 1.758e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

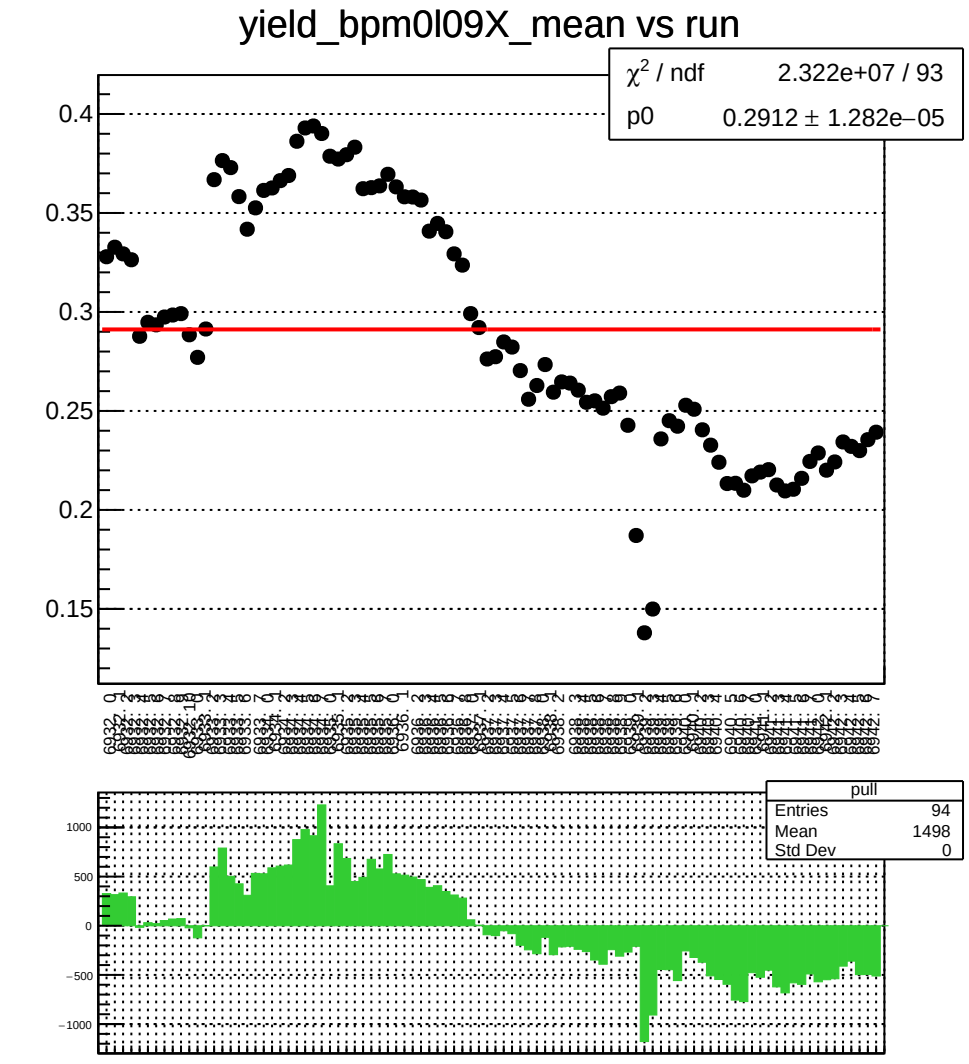

yield_bpm0l08X_mean vs run
χ² / ndf 2.578e+07 / 93
p0 −0.4257 ± 1.32e−05
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 94
Mean 1247
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 94
Mean 5.138
Std Dev 2.584
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

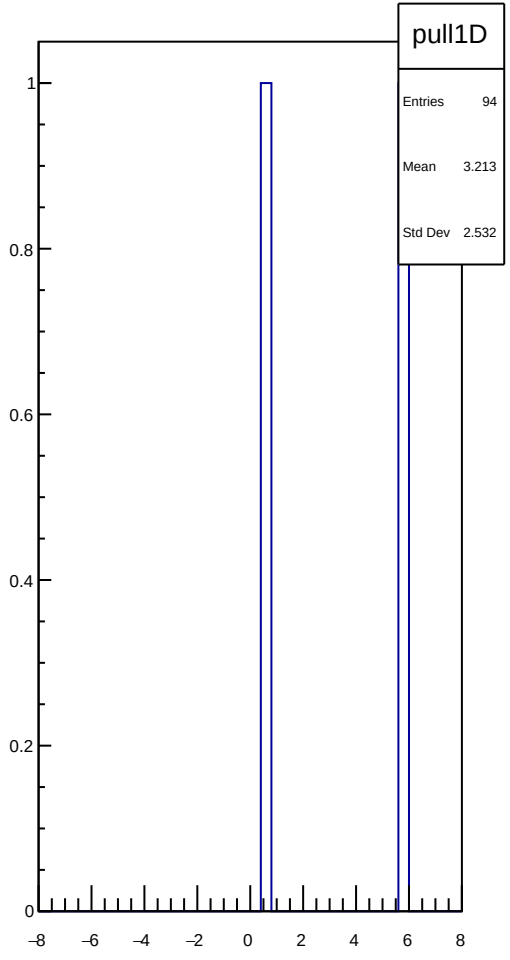

yield_bpm0l08X_rms vs run
χ² / ndf 6e+04 / 93
p0 0.01218 ± 9.331e–06
0.05
0.04
0.03
0.02
0.01

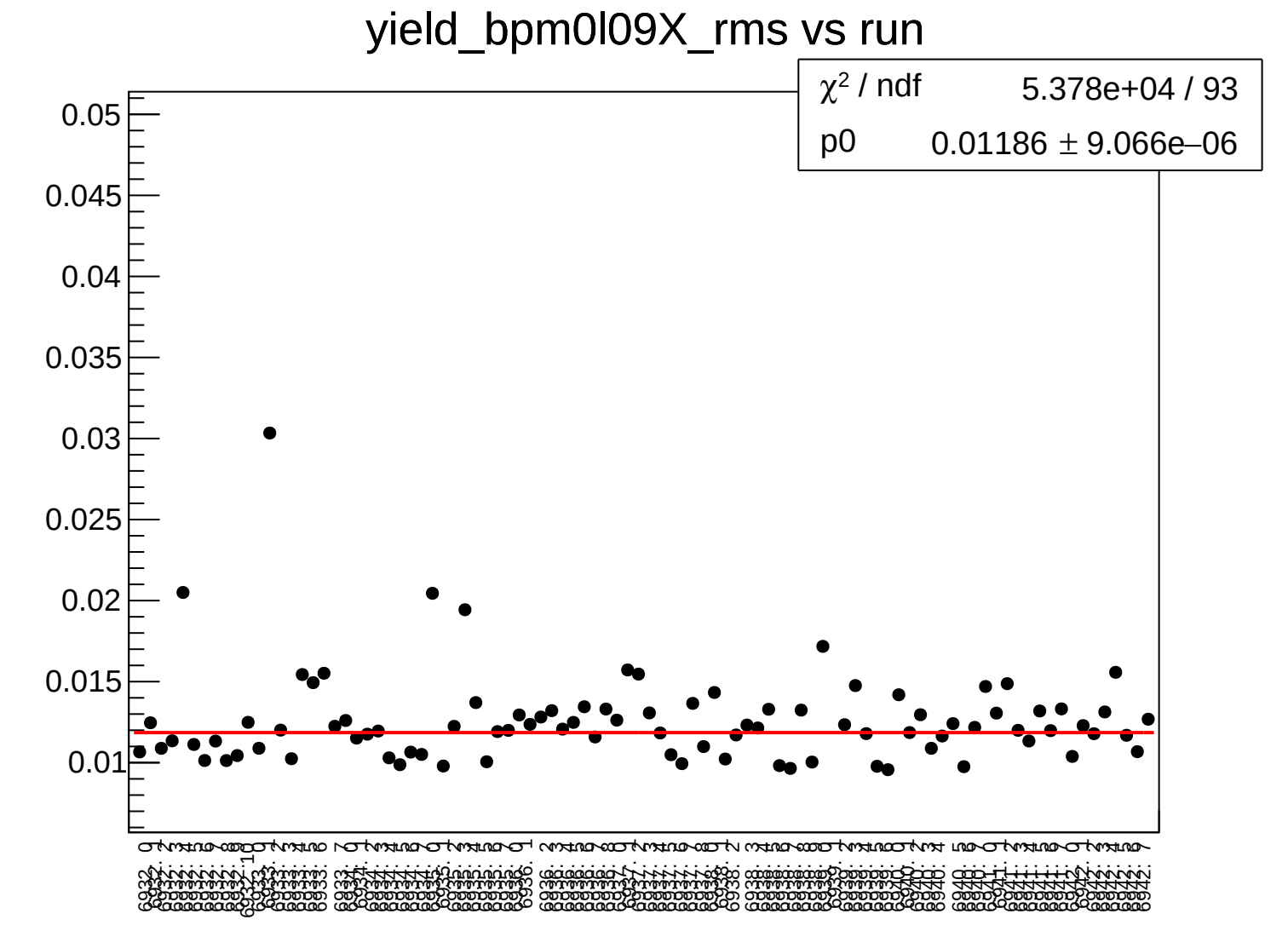

yield_bpm0l08Y_mean vs run
χ² / ndf 9.104e+06 / 93
p0 −0.1765 ± 3.115e−06
−0.15
−0.16
−0.17
−0.18
−0.19
pull
Entries 94
Mean −9710
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

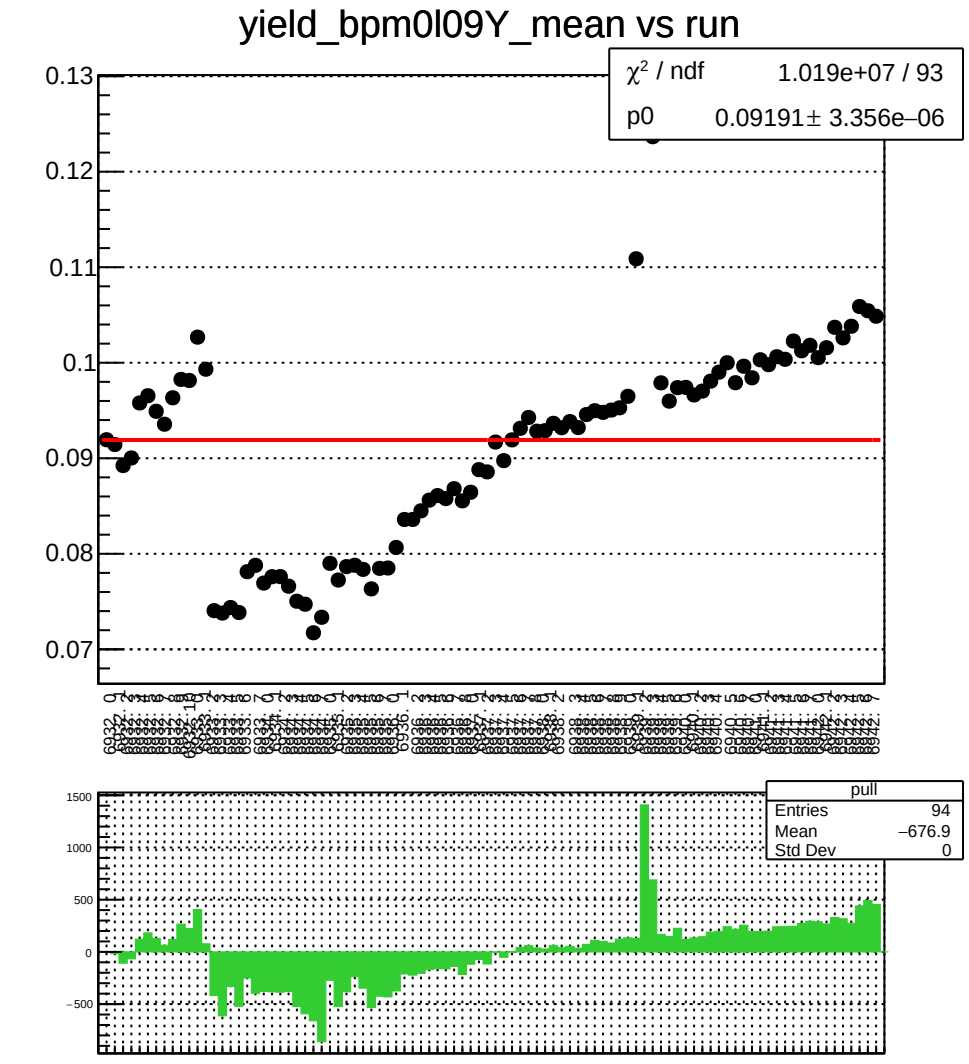

pull1D
Entries 94
Mean 2.873
Std Dev 0.1786
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

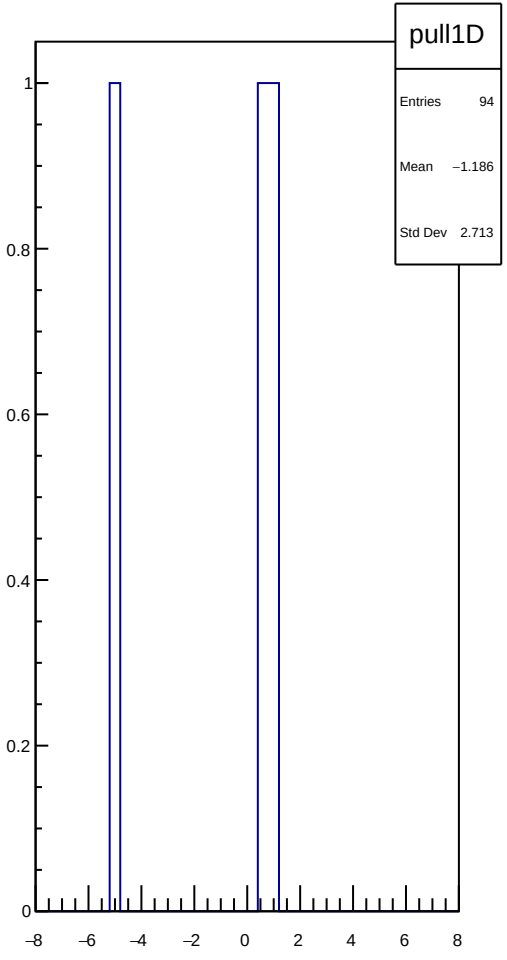

yield_bpm0l08Y_rms vs run
χ^2 / ndf 3.677e+04 / 93
p0 0.002895 ± 2.203e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

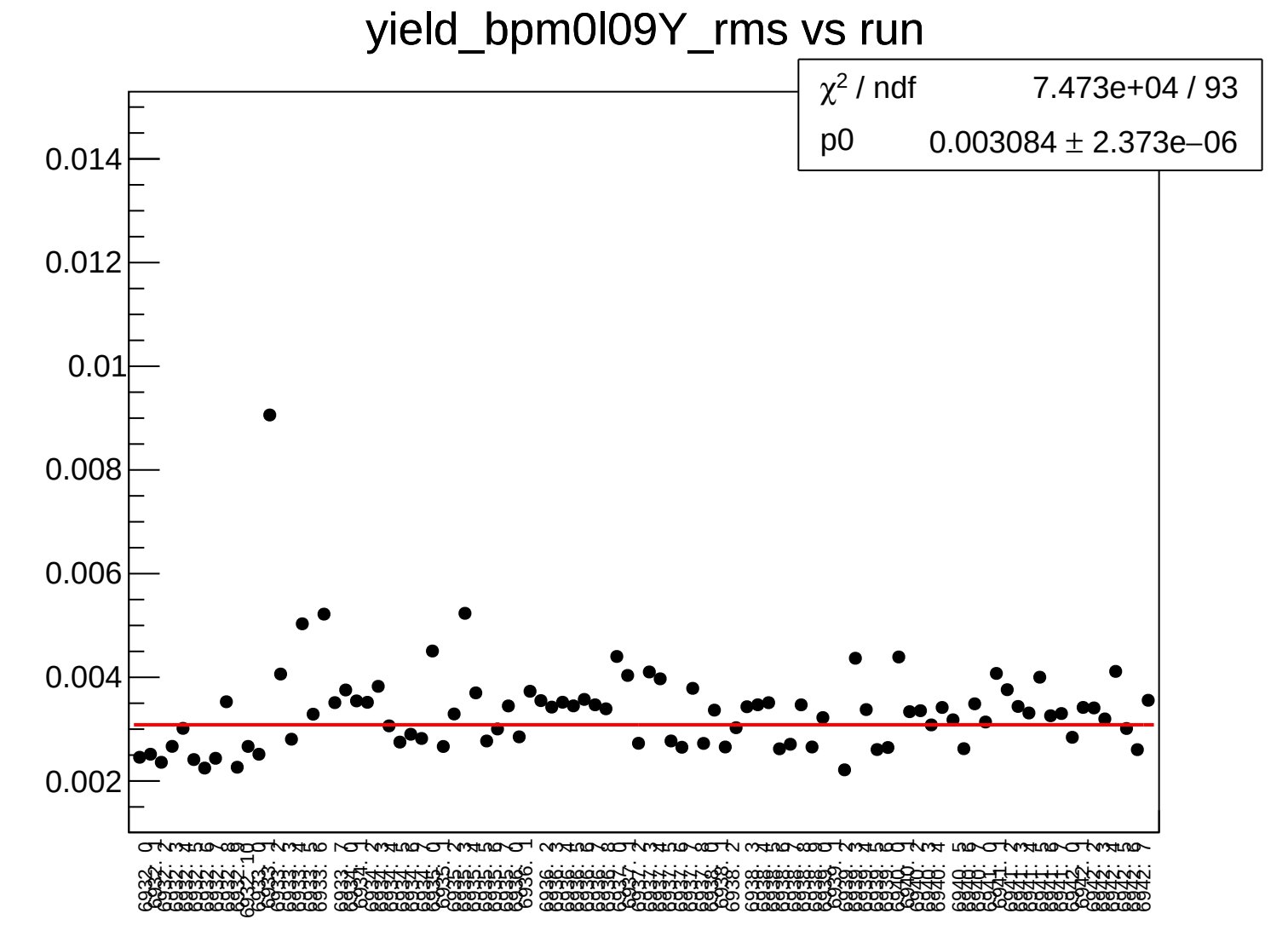

yield_bpm0l09X_mean vs run
χ² / ndf 2.322e+07 / 93
p0 0.2912 ± 1.282e−05
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 94
Mean 1498
Std Dev 0
1000
500
0
−500
−1000

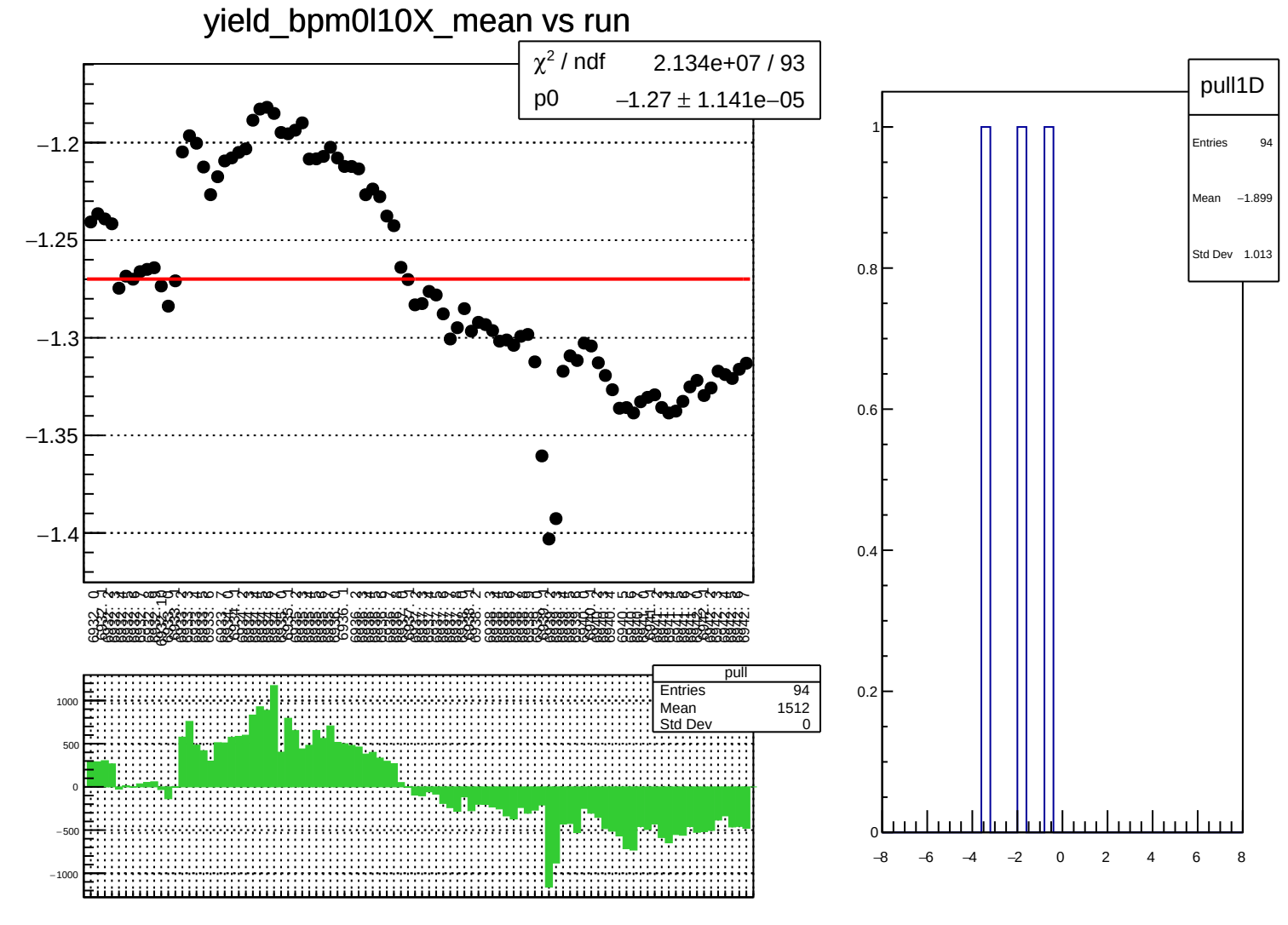

pull1D
Entries 94
Mean 3.213
Std Dev 2.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

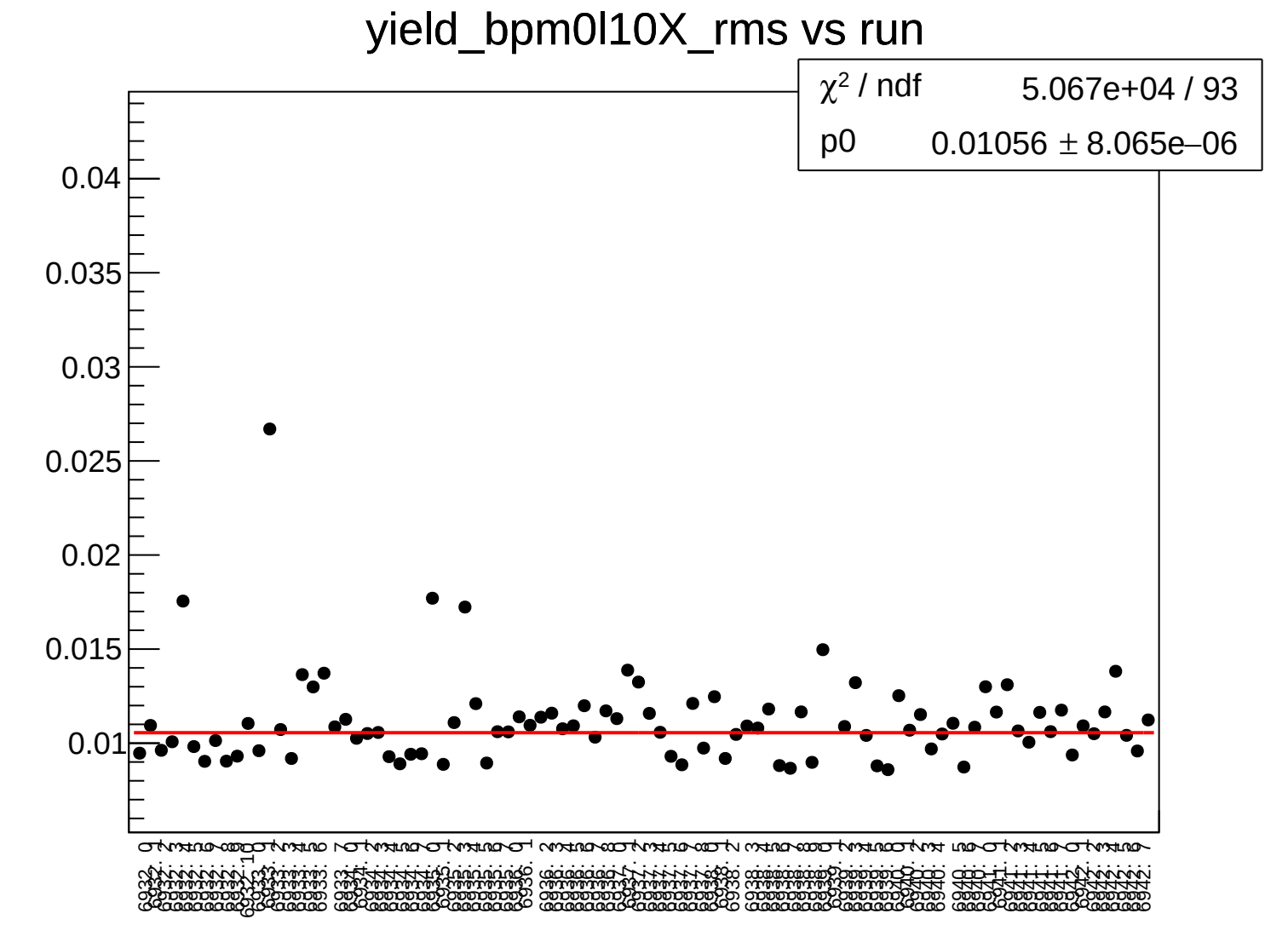

yield_bpm0l09X_rms vs run
χ² / ndf 5.378e+04 / 93
p0 0.01186 ± 9.066e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

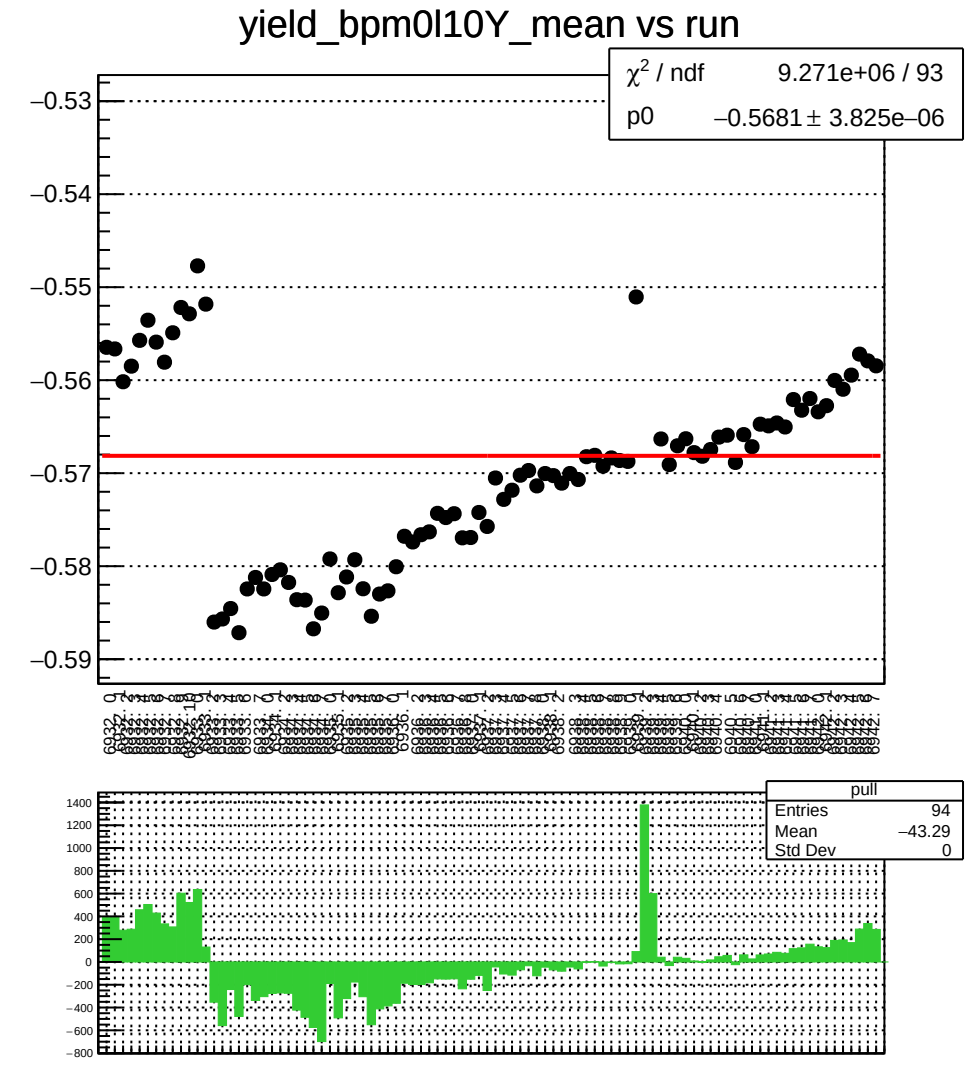

yield_bpm0l09Y_mean vs run
χ² / ndf 1.019e+07 / 93
p0 0.09191± 3.356e−06
0.13
0.12
0.11
0.1
0.09
0.08
0.07
pull
Entries 94
Mean −676.9
Std Dev 0
1500
1000
500
0
−500

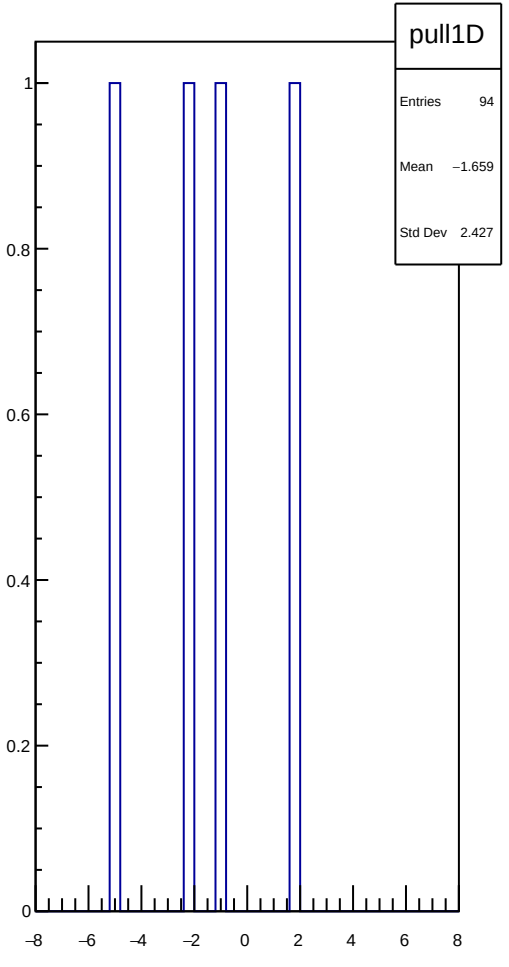

pull1D
Entries 94
Mean −1.186
Std Dev 2.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

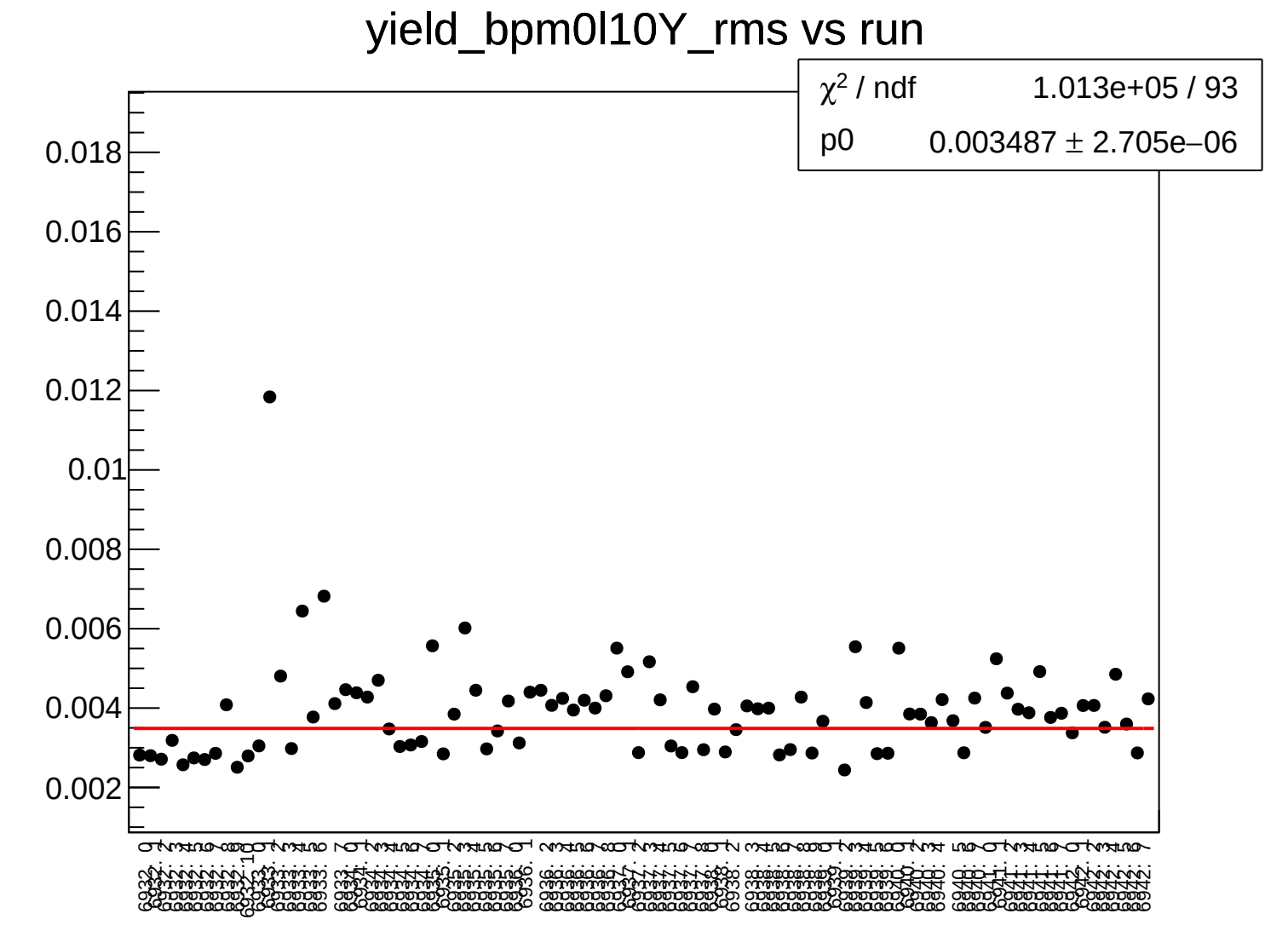

yield_bpm0l09Y_rms vs run
χ² / ndf 7.473e+04 / 93
p0 0.003084 ± 2.373e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

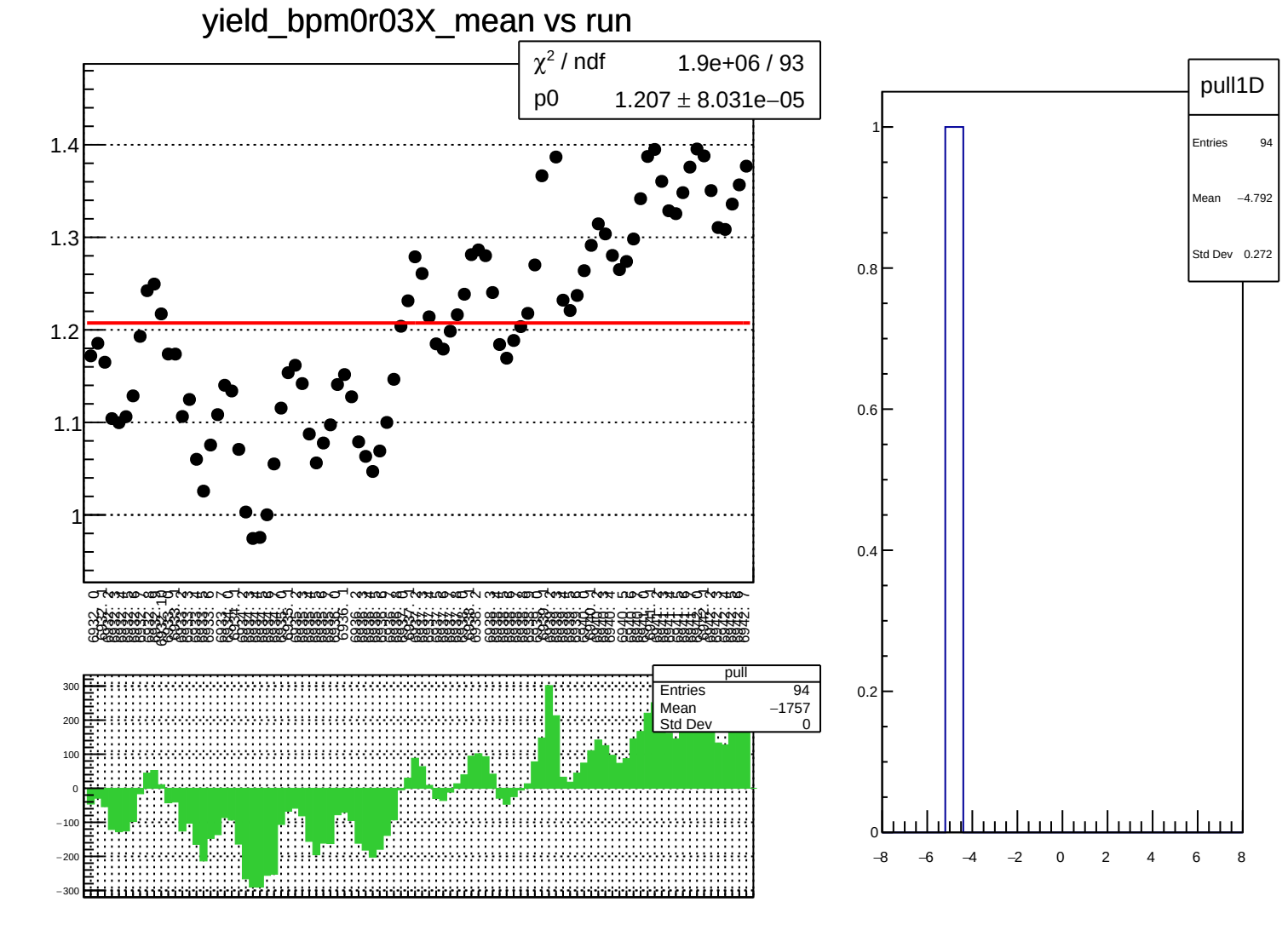

yield_bpm0l10X_mean vs run
χ² / ndf 2.134e+07 / 93
p0 −1.27 ± 1.141e−05
−1.2
−1.25
−1.3
−1.35
−1.4
pull
Entries 94
Mean 1512
Std Dev 0
1000
500
0
−500
−1000
pull1D
Entries 94
Mean −1.899
Std Dev 1.013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm0l10X_rms vs run
χ² / ndf 5.067e+04 / 93
p0 0.01056 ± 8.065e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

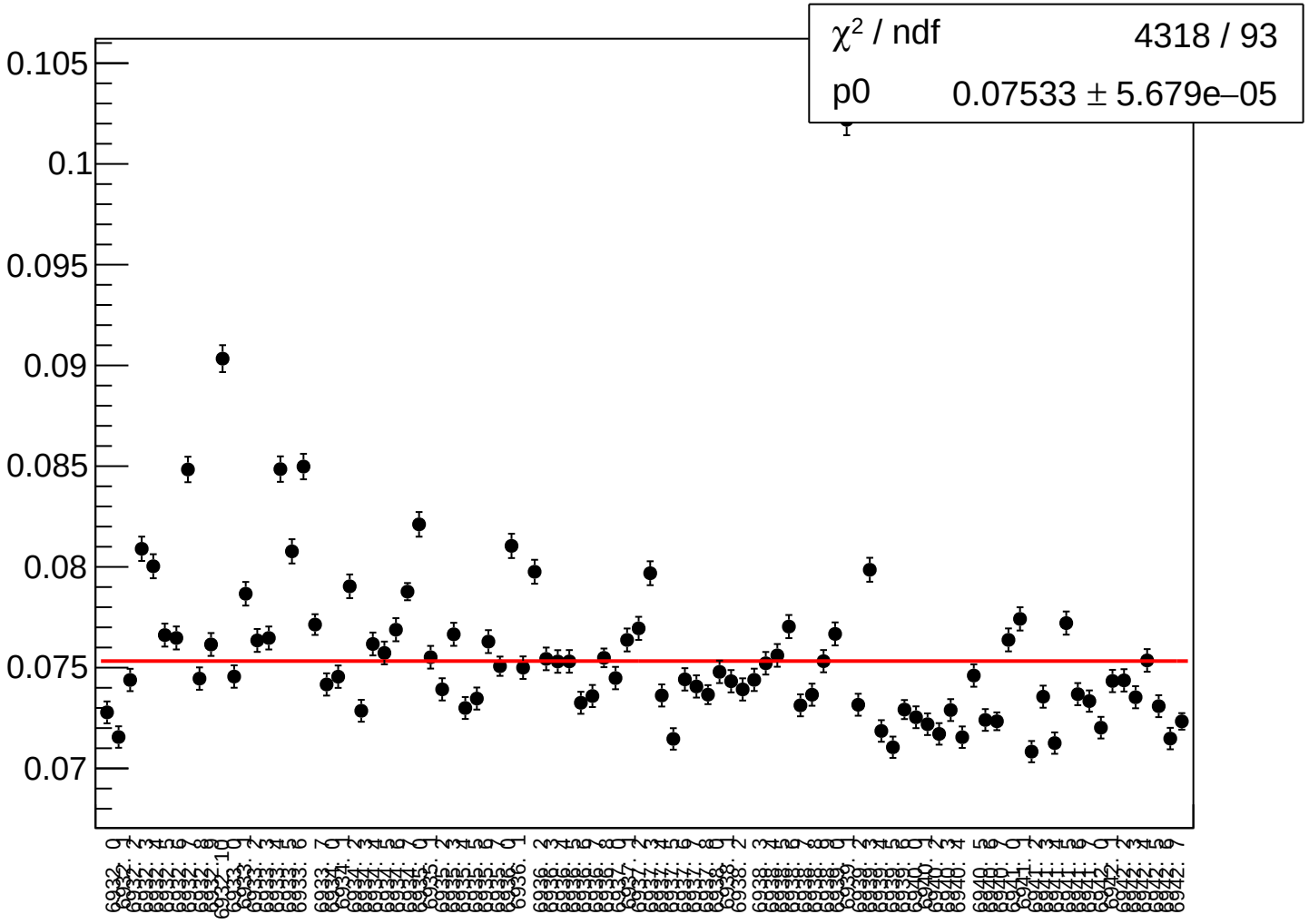

yield_bpm0l10Y_mean vs run
χ² / ndf 9.271e+06 / 93
p0 −0.5681 ± 3.825e−06
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
pull
Entries 94
Mean −43.29
Std Dev 0
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

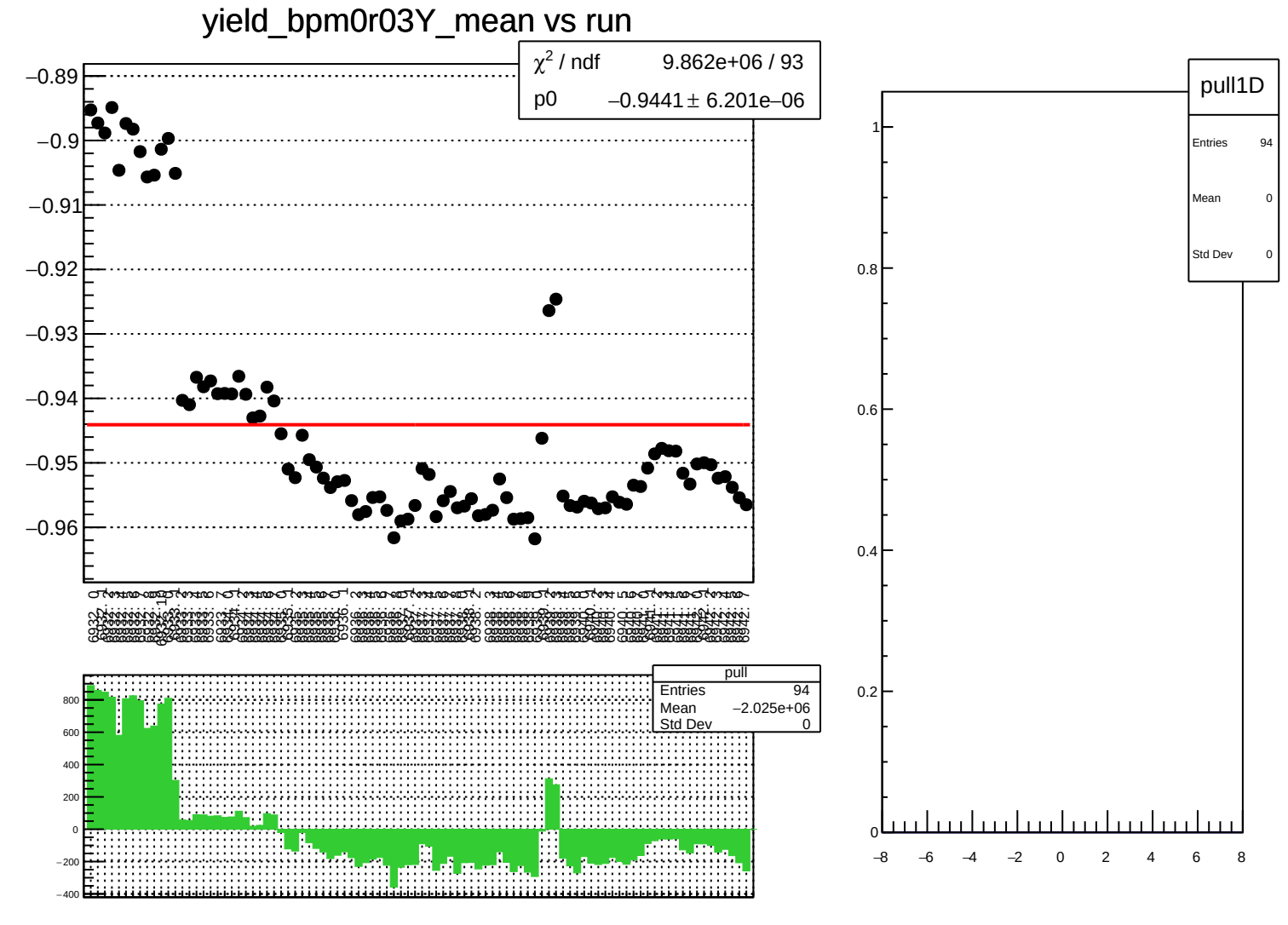

pull1D
Entries 94
Mean −1.659
Std Dev 2.427
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

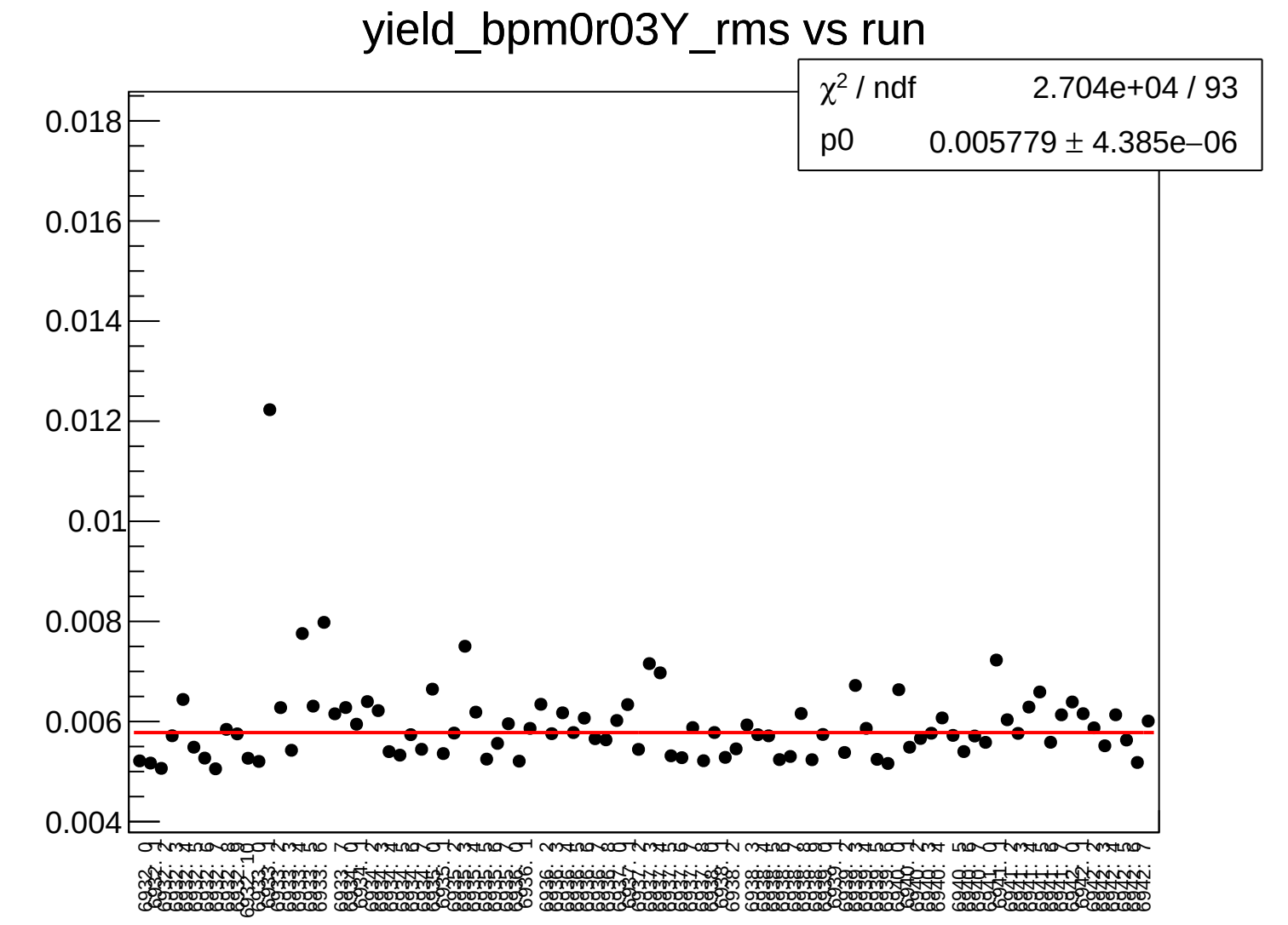

yield_bpm0l10Y_rms vs run
χ² / ndf 1.013e+05 / 93
p0 0.003487 ± 2.705e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

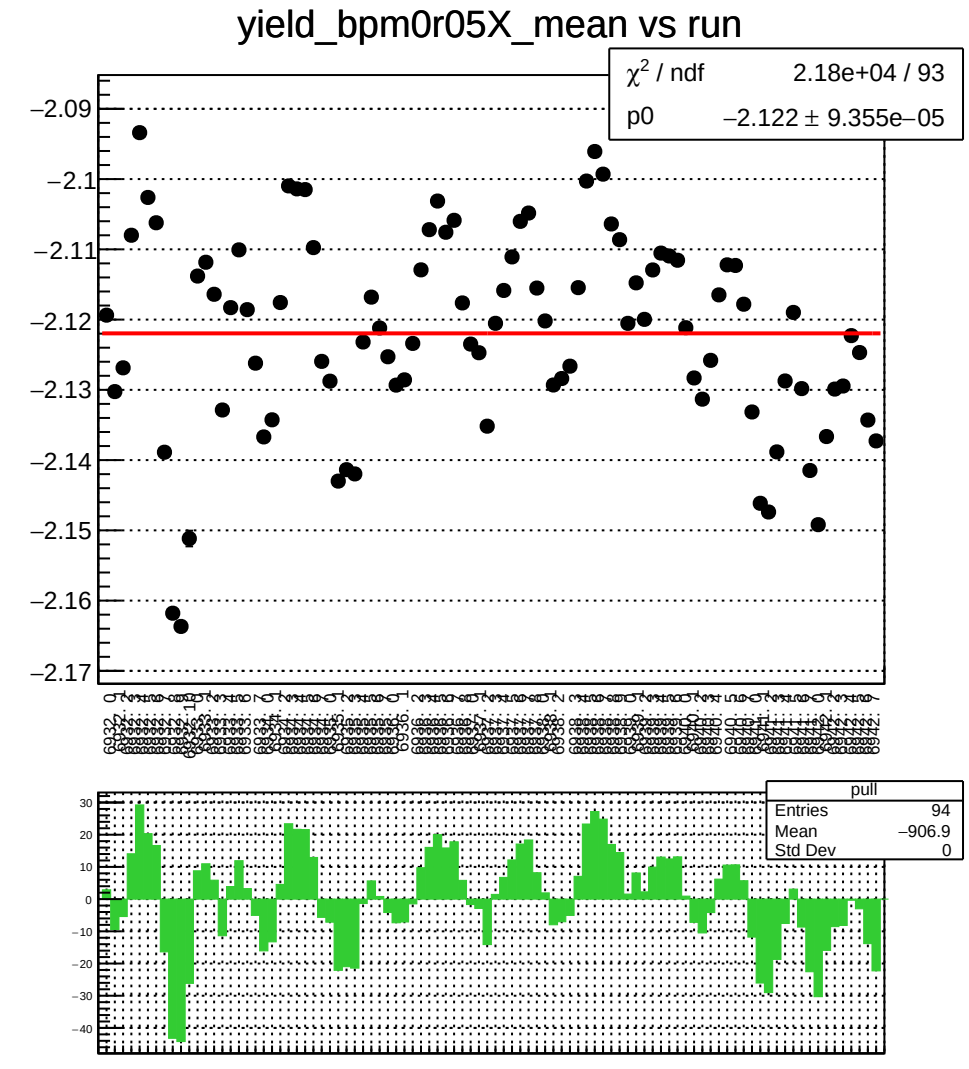

yield_bpm0r03X_mean vs run
χ² / ndf 1.9e+06 / 93
p0 1.207 ± 8.031e−05
1.4
1.3
1.2
1.1
1
pull
Entries 94
Mean −1757
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean −4.792
Std Dev 0.272
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

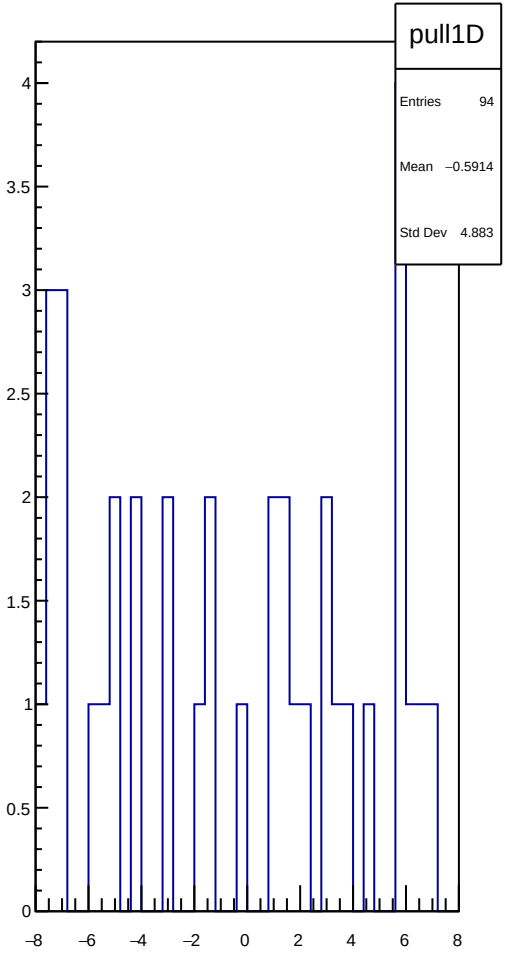
yield_bpm0r03X_rms vs run

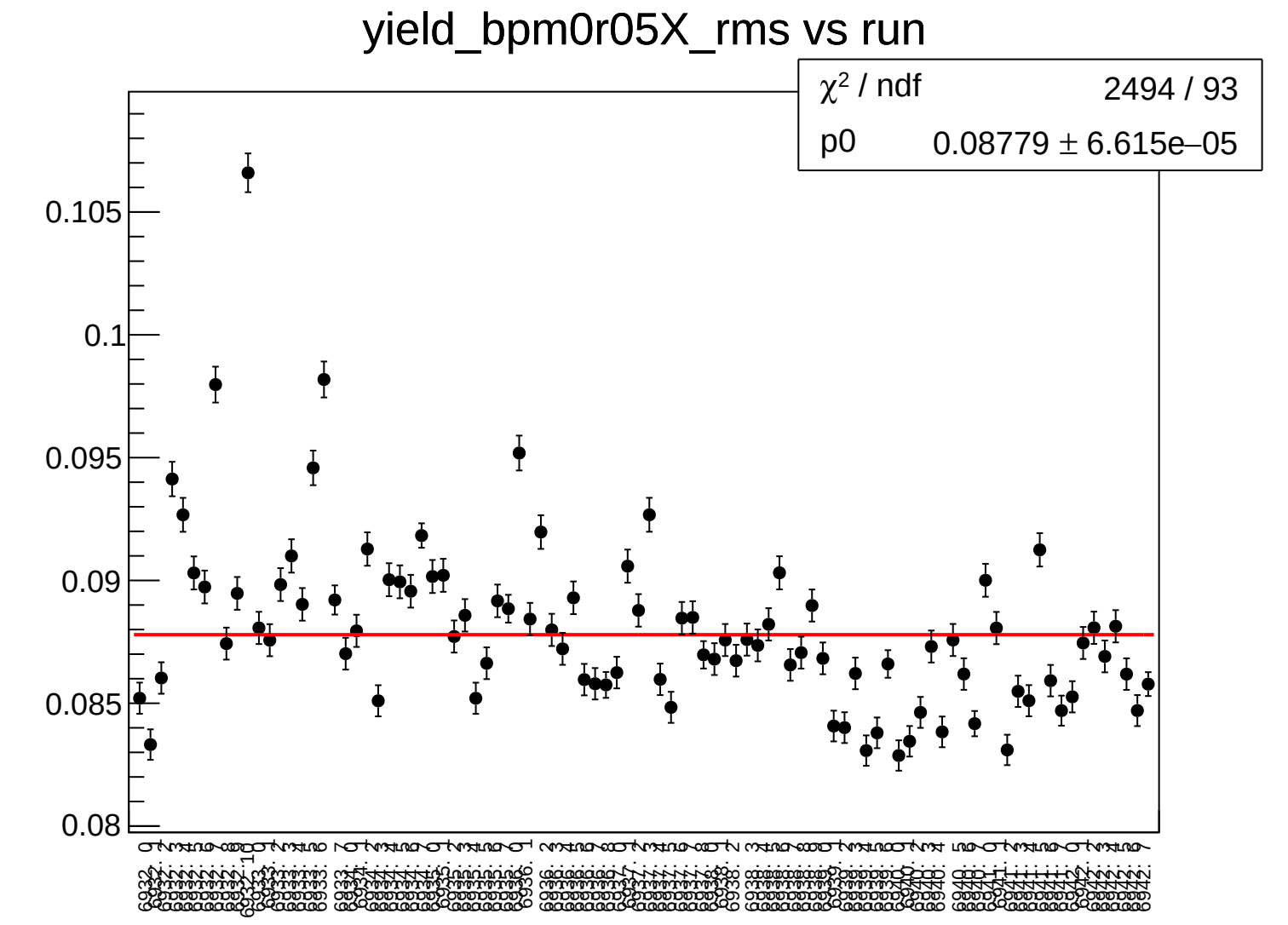


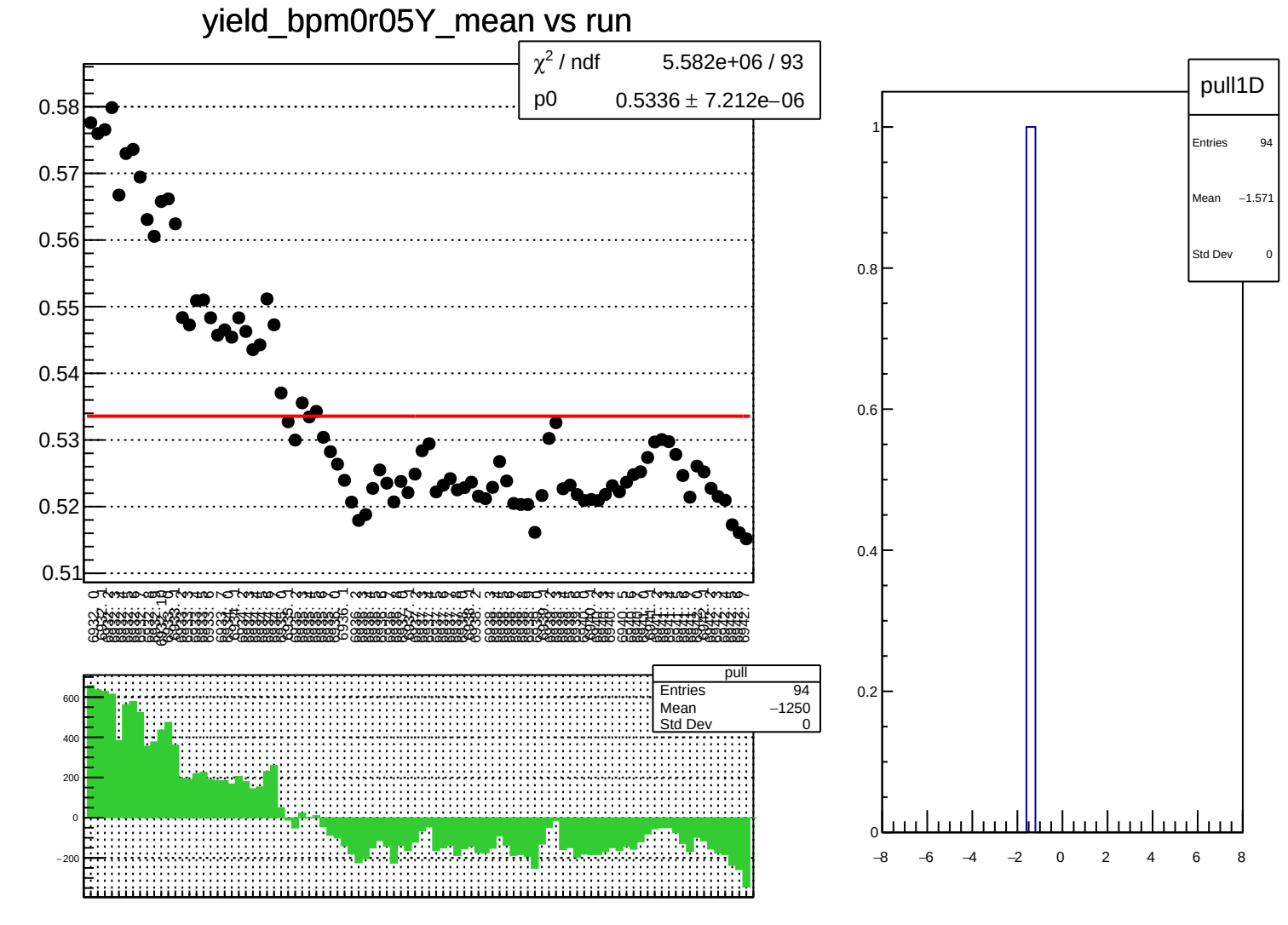

yield_bpm0r03Y_mean vs run
χ² / ndf 9.862e+06 / 93
p0 −0.9441 ± 6.201e−06
−0.89
−0.9
−0.91
−0.92
−0.93
−0.94
−0.95
−0.96
pull
Entries 94
Mean −2.025e+06
Std Dev 0
800
600
400
200
0
−200
−400
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

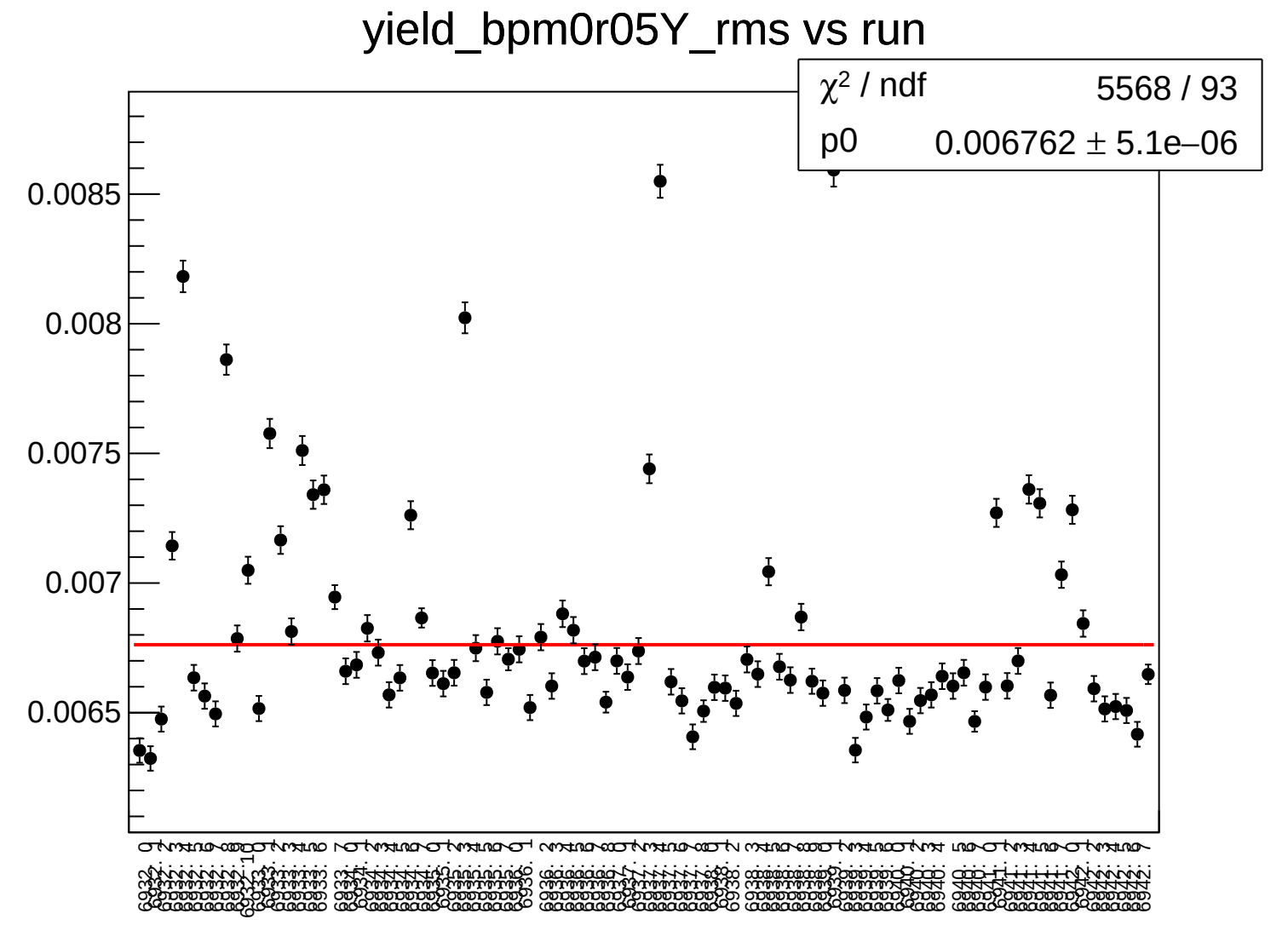

yield_bpm0r03Y_rms vs run
χ² / ndf 2.704e+04 / 93
p0 0.005779 ± 4.385e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

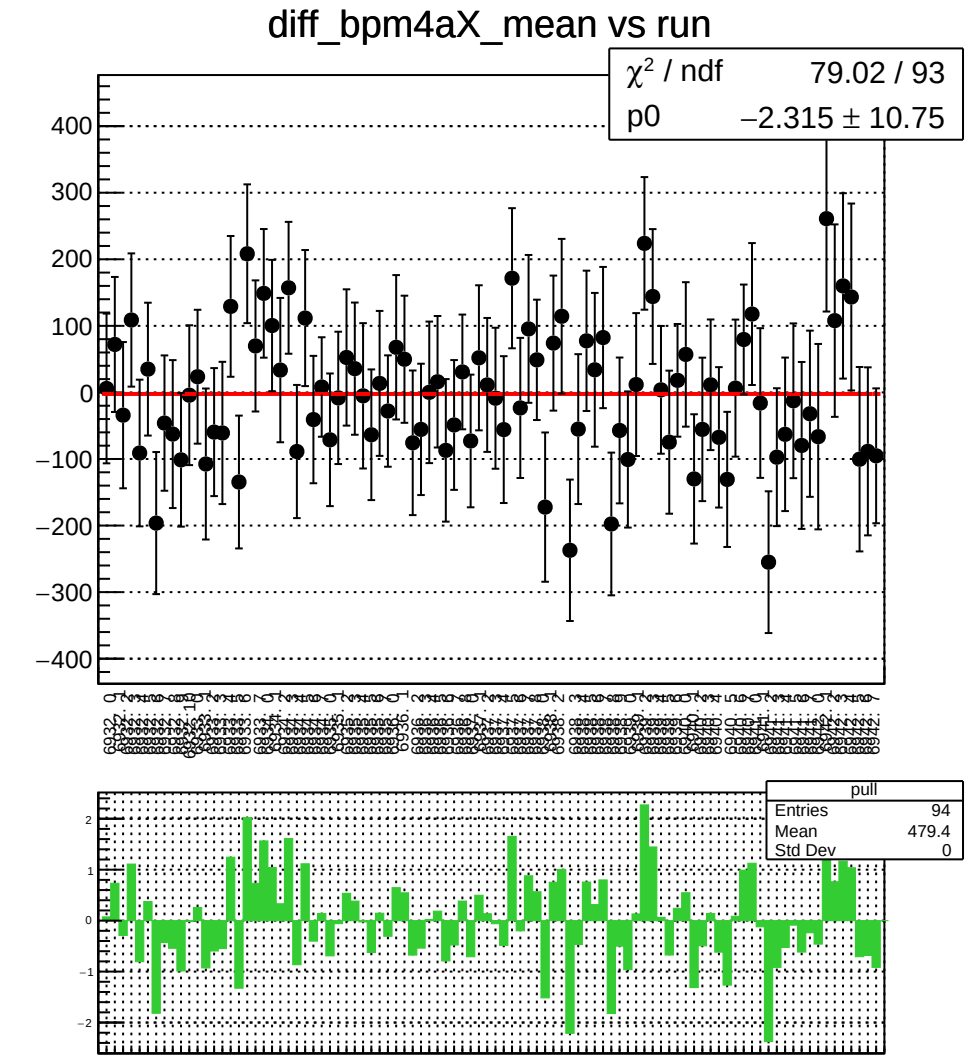

yield_bpm0r05X_mean vs run
χ² / ndf 2.18e+04 / 93
p0 −2.122 ± 9.355e−05
−2.09
−2.1
−2.11
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
pull
Entries 94
Mean −906.9
Std Dev 0
30
20
10
0
−10
−20
−30
−40

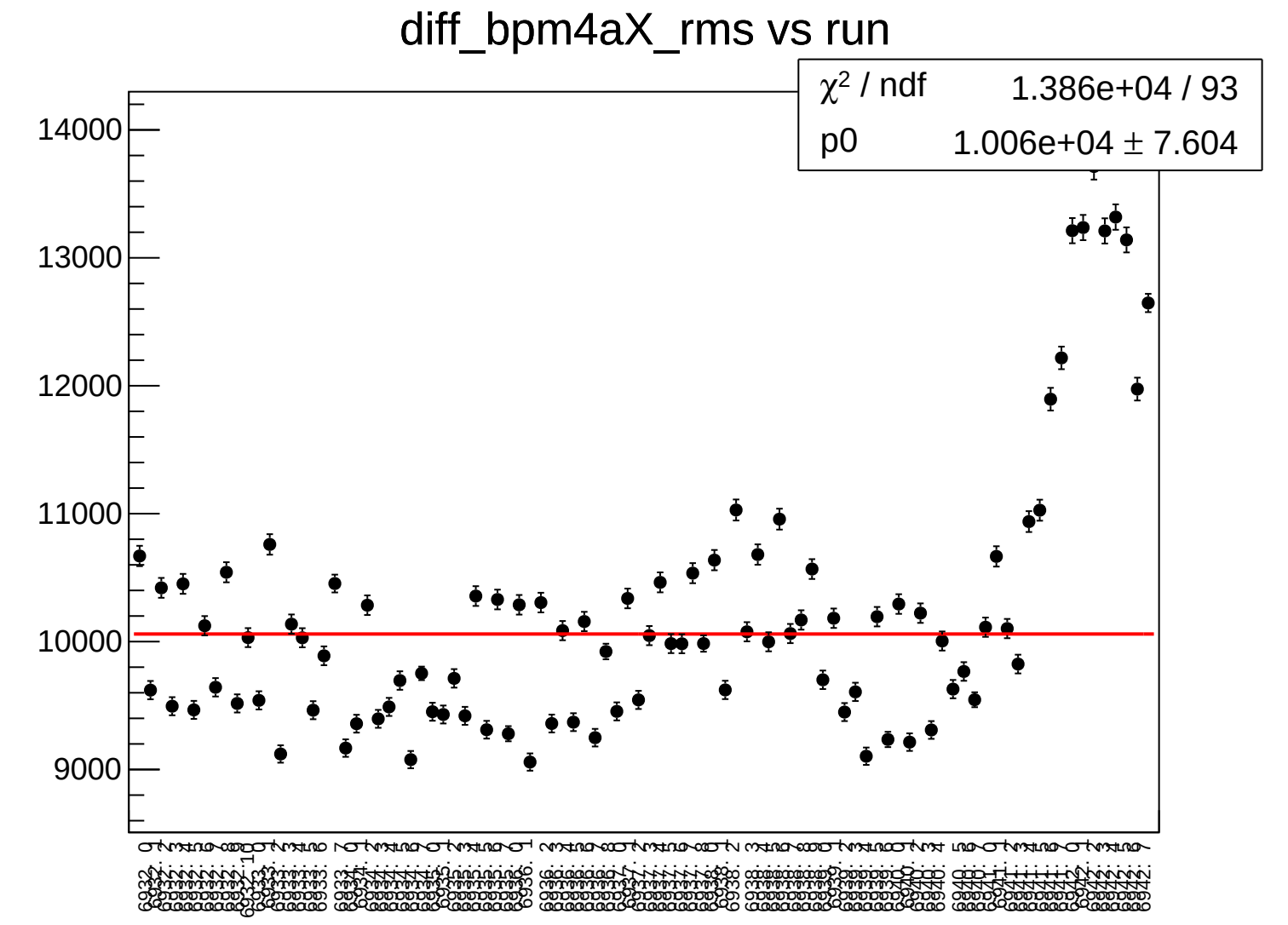

pull1D
Entries 94
Mean −0.5914
Std Dev 4.883
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

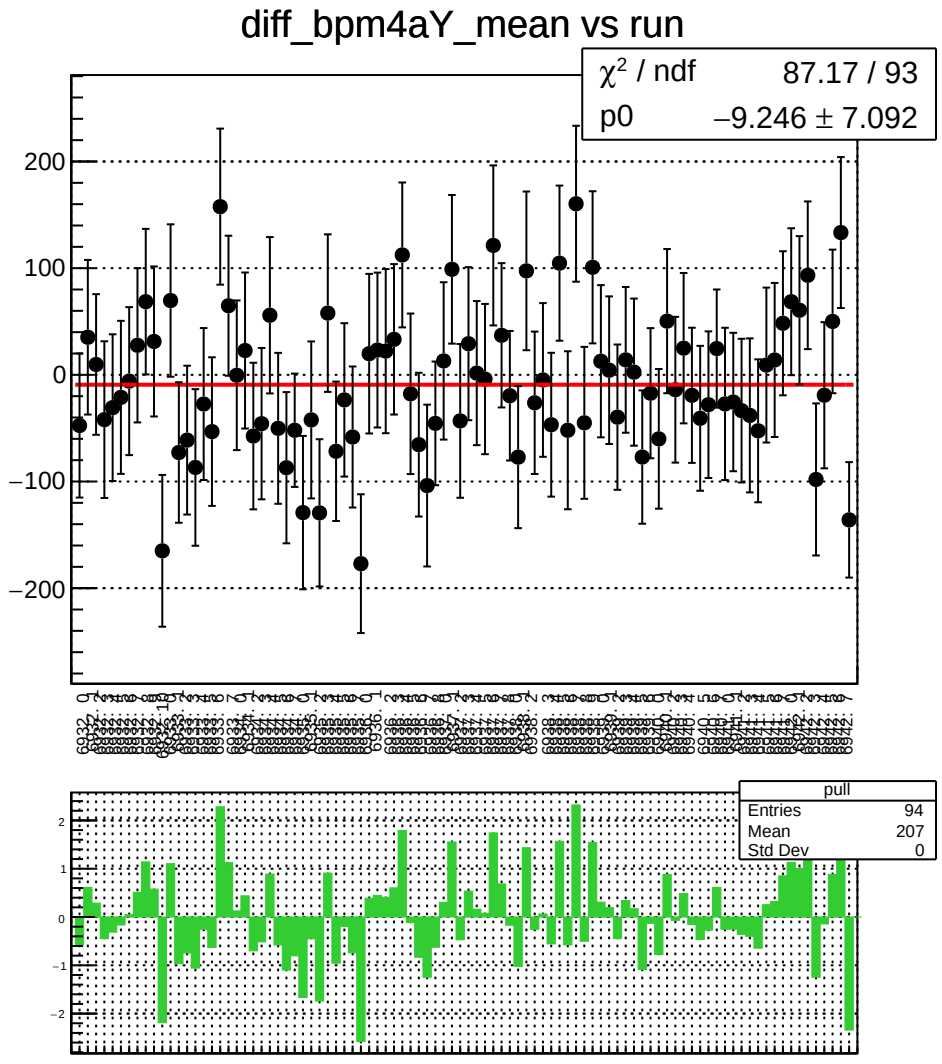

yield_bpm0r05X_rms vs run
χ² / ndf 2494 / 93
p0 0.08779 ± 6.615e–05
0.105
0.1
0.095
0.09
0.085
0.08

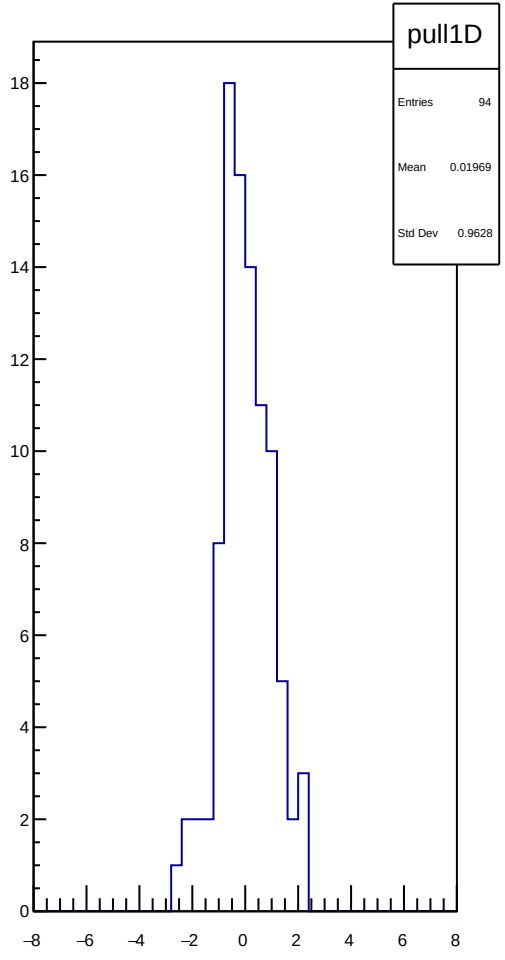

yield_bpm0r05Y_mean vs run
χ² / ndf 5.582e+06 / 93
p0 0.5336 ± 7.212e−06
0.58
0.57
0.56
0.55
0.54
0.53
0.52
0.51
pull
Entries 94
Mean −1250
Std Dev 0
600
400
200
0
−200
pull1D
Entries 94
Mean −1.571
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

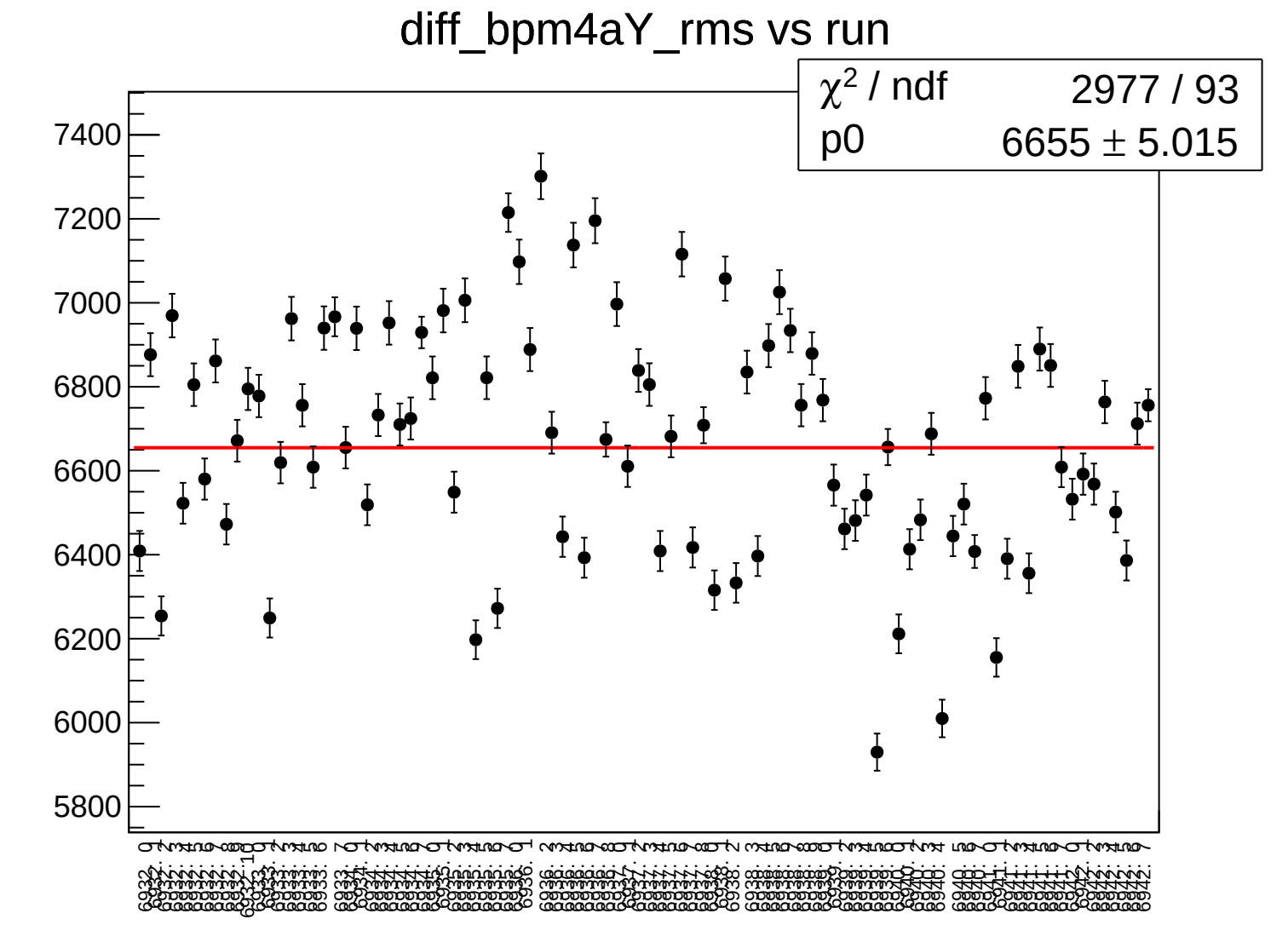

yield_bpm0r05Y_rms vs run
χ² / ndf 5568 / 93
p0 0.006762 ± 5.1e−06
0.0085
0.008
0.0075
0.007
0.0065

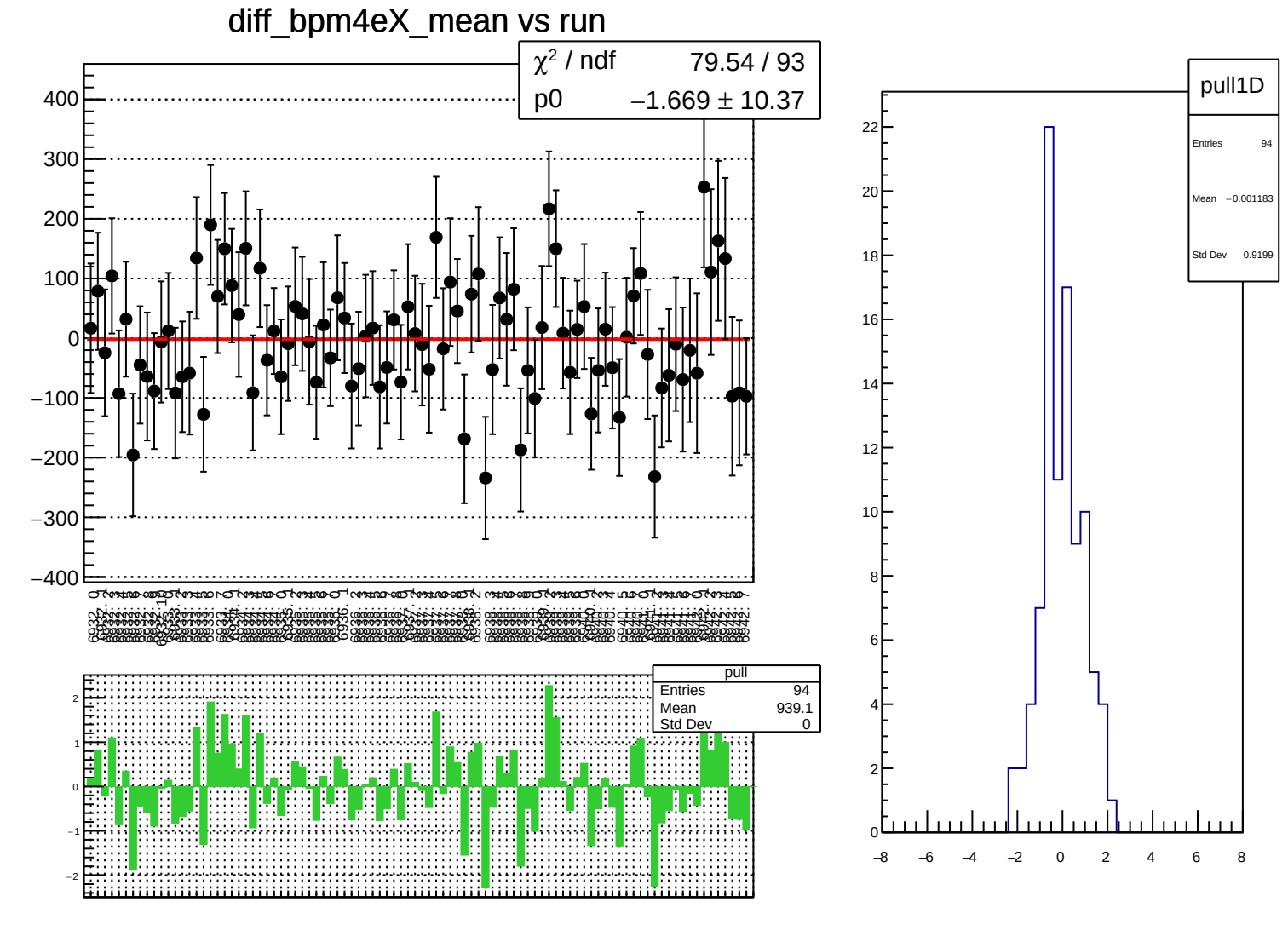

diff_bpm4aX_mean vs run
χ² / ndf 79.02 / 93
p0 −2.315 ± 10.75
pull
Entries 94
Mean 479.4
Std Dev 0
pull1D
Entries 94
Mean −0.002565
Std Dev 0.9169

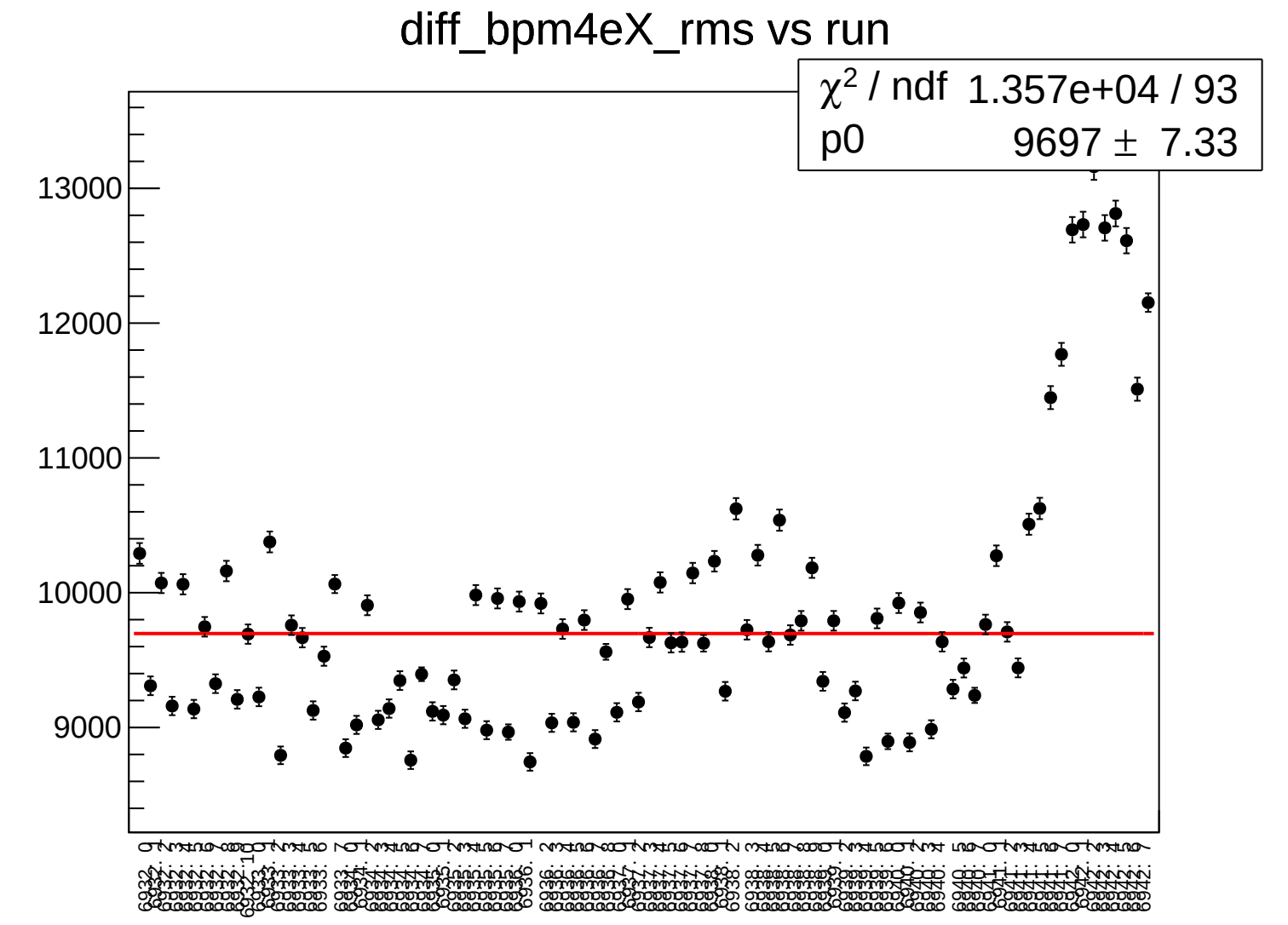

diff_bpm4aX_rms vs run
χ² / ndf 1.386e+04 / 93
p0 1.006e+04 ± 7.604
14000
13000
12000
11000
10000
9000

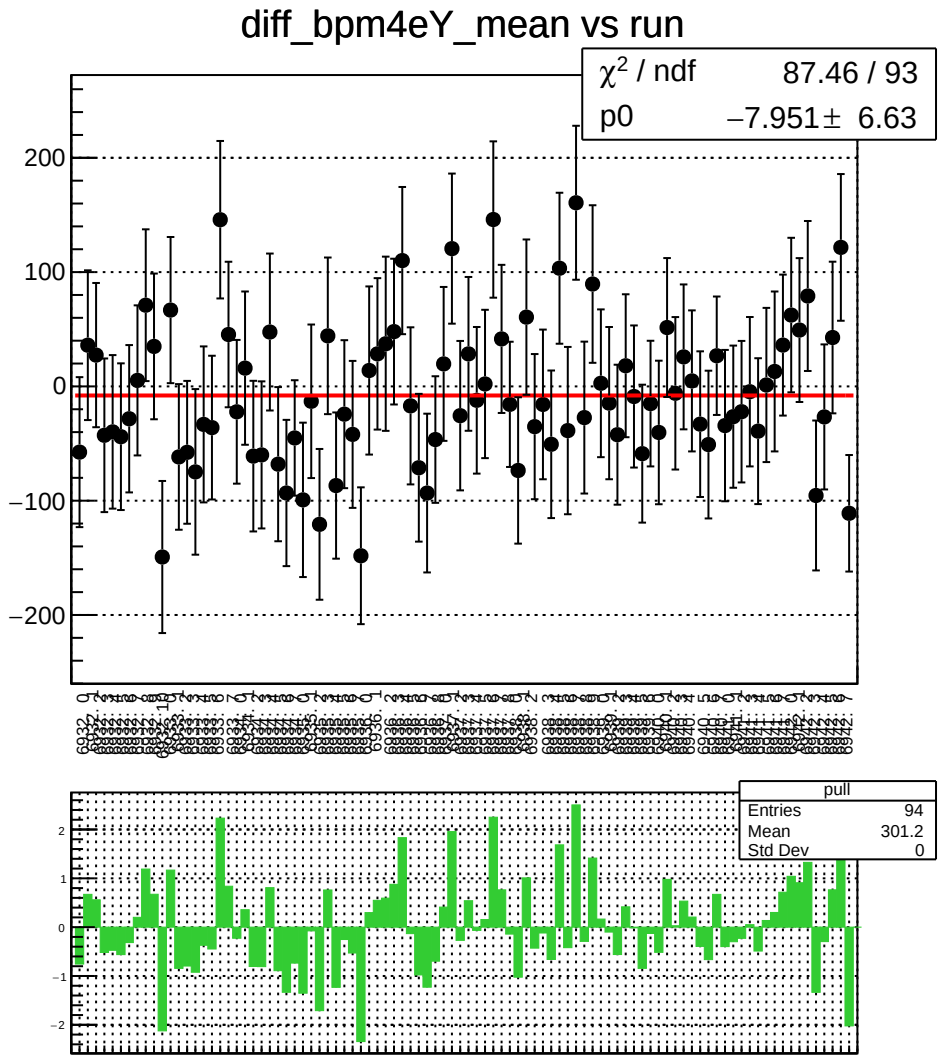

diff_bpm4aY_mean vs run
χ² / ndf 87.17 / 93
p0 −9.246 ± 7.092
200
100
0
−100
−200
pull
Entries 94
Mean 207
Std Dev 0
2
1
0
−1
−2

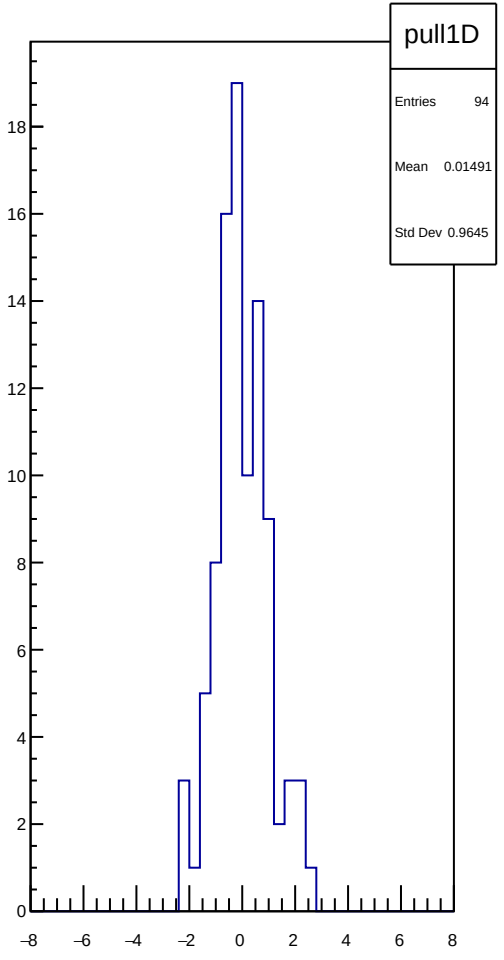

pull1D
Entries 94
Mean 0.01969
Std Dev 0.9628
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

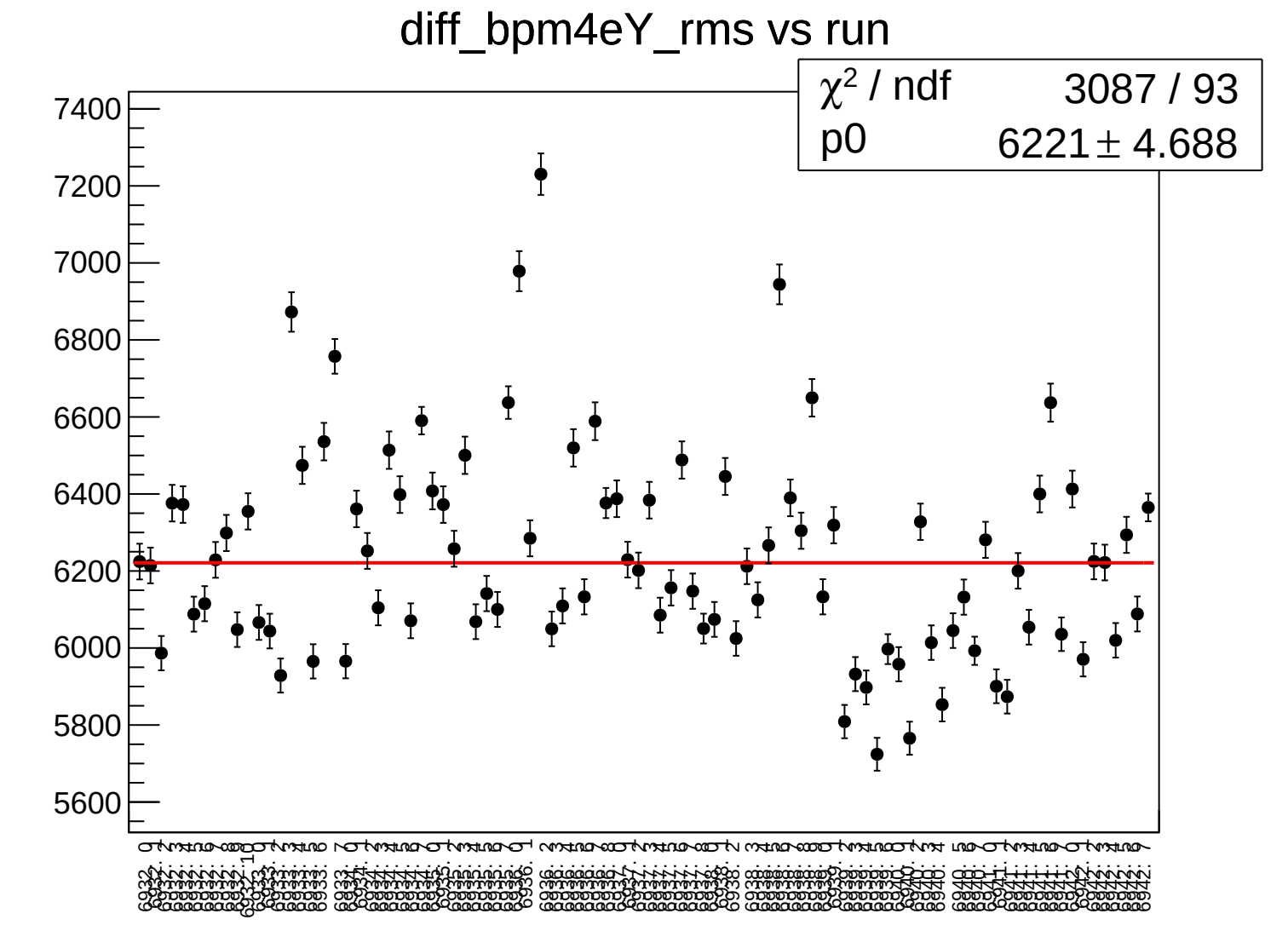

diff_bpm4aY_rms vs run
χ² / ndf 2977 / 93
p0 6655 ± 5.015
7400
7200
7000
6800
6600
6400
6200
6000
5800

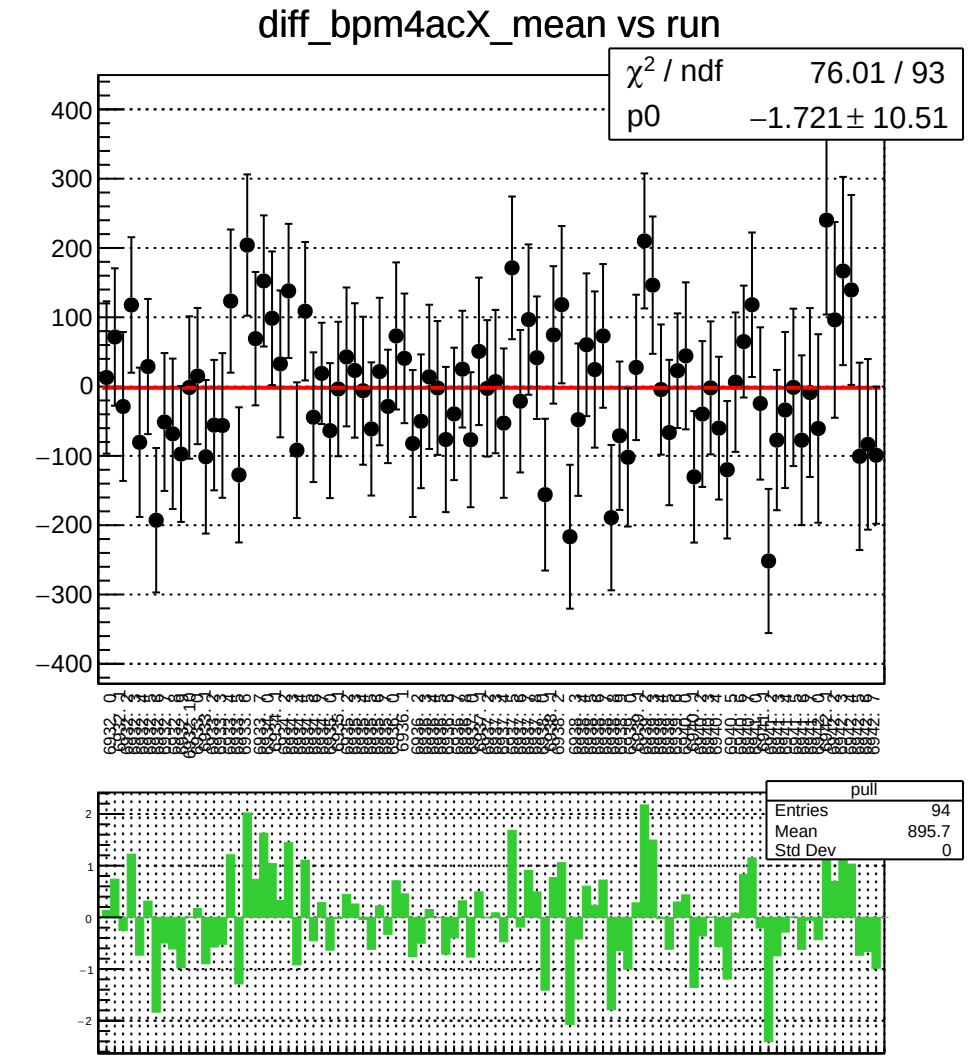

diff_bpm4eX_mean vs run
χ² / ndf 79.54 / 93
p0 −1.669 ± 10.37
pull
Entries 94
Mean 939.1
Std Dev 0
pull1D
Entries 94
Mean −0.001183
Std Dev 0.9199

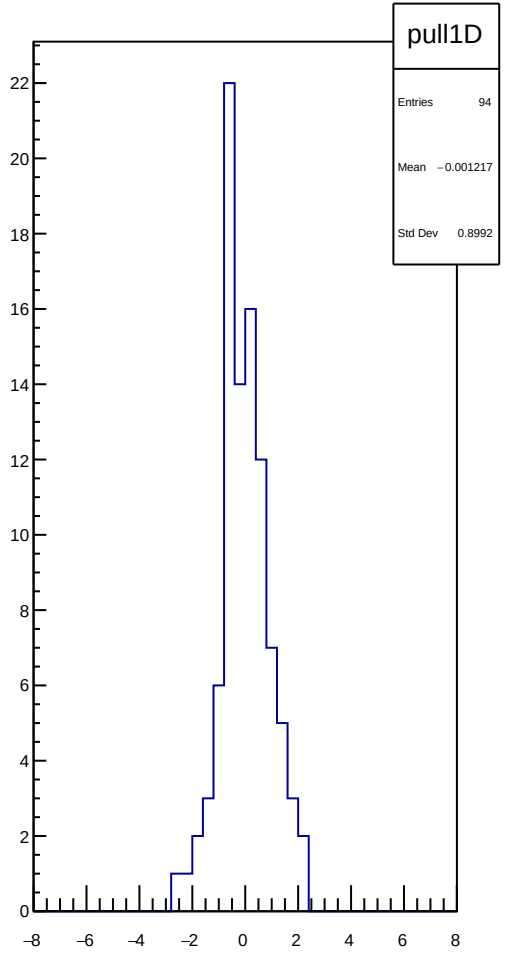

diff_bpm4eX_rms vs run
χ² / ndf 1.357e+04 / 93
p0 9697 ± 7.33
13000
12000
11000
10000
9000

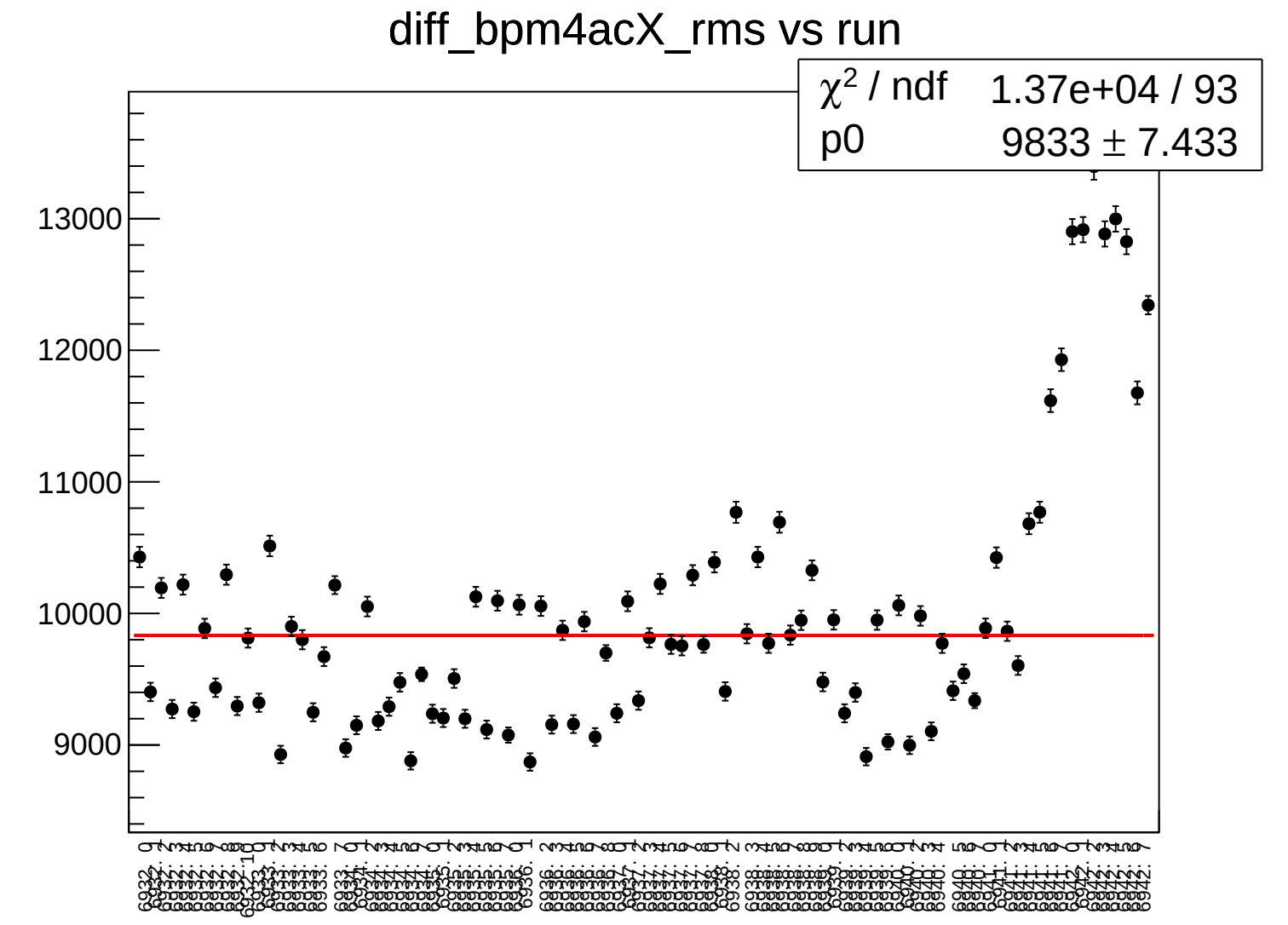

diff_bpm4eY_mean vs run
χ² / ndf 87.46 / 93
p0 −7.951± 6.63
200
100
0
−100
−200
pull
Entries 94
Mean 301.2
Std Dev 0
2
1
0
−1
−2

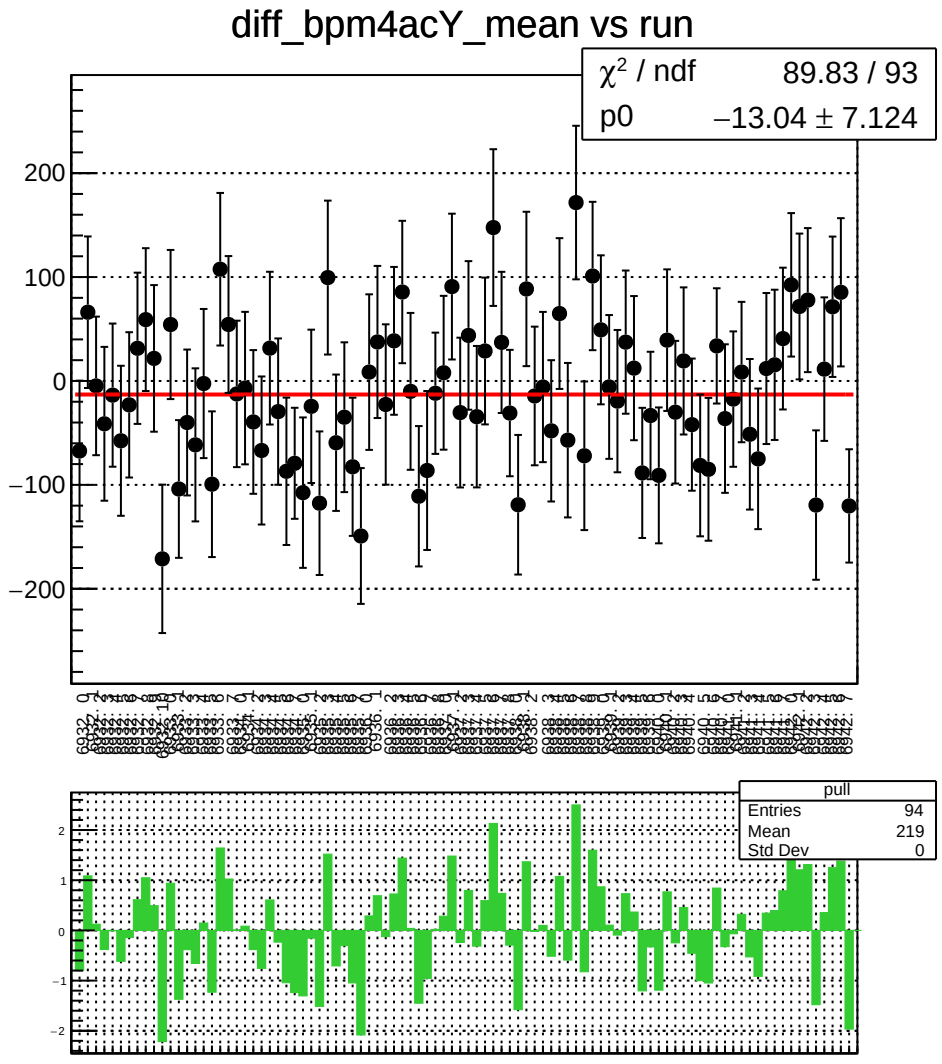

pull1D
Entries 94
Mean 0.01491
Std Dev 0.9645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

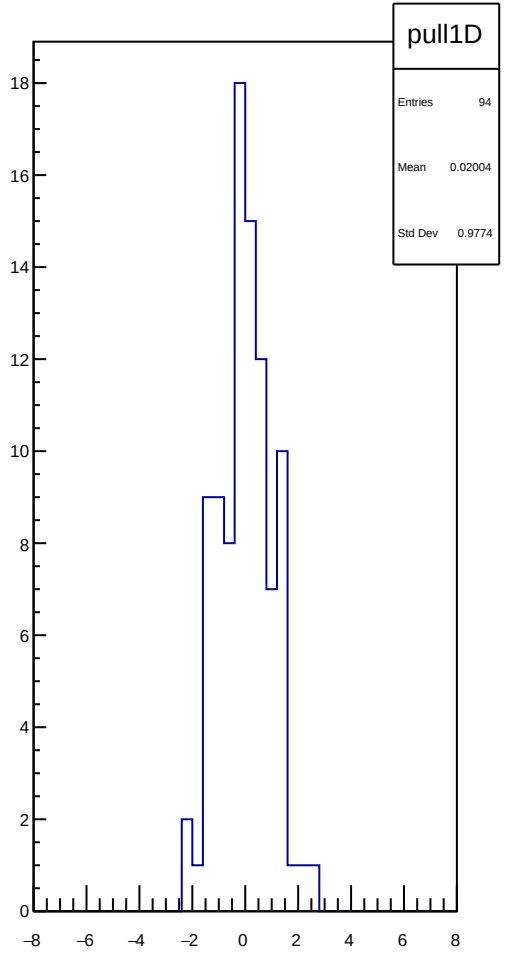

diff_bpm4eY_rms vs run
χ² / ndf 3087 / 93
p0 6221 ± 4.688
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

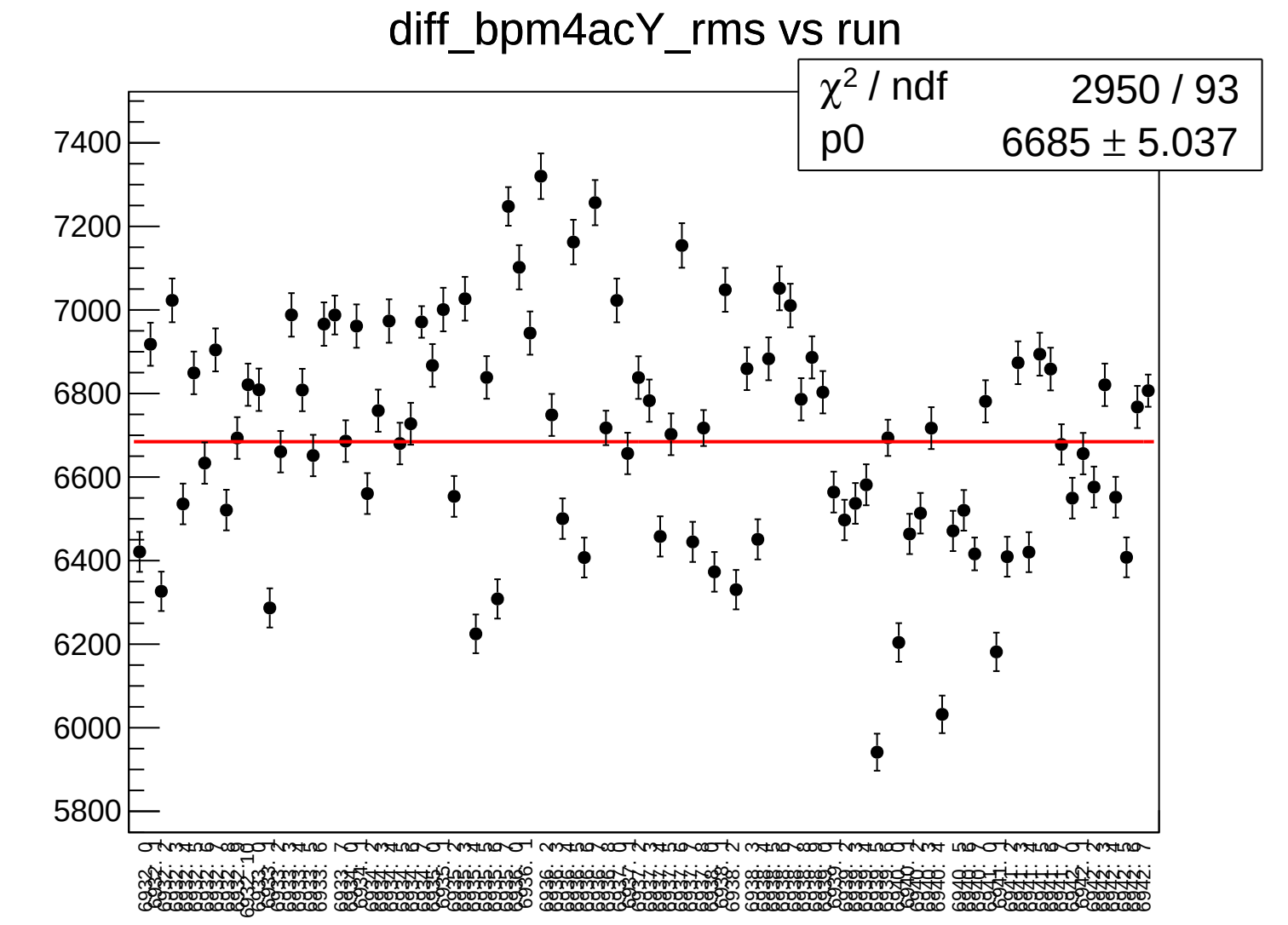

diff_bpm4acX_mean vs run
χ² / ndf 76.01 / 93
p0 −1.721 ± 10.51
pull
Entries 94
Mean 895.7
Std Dev 0

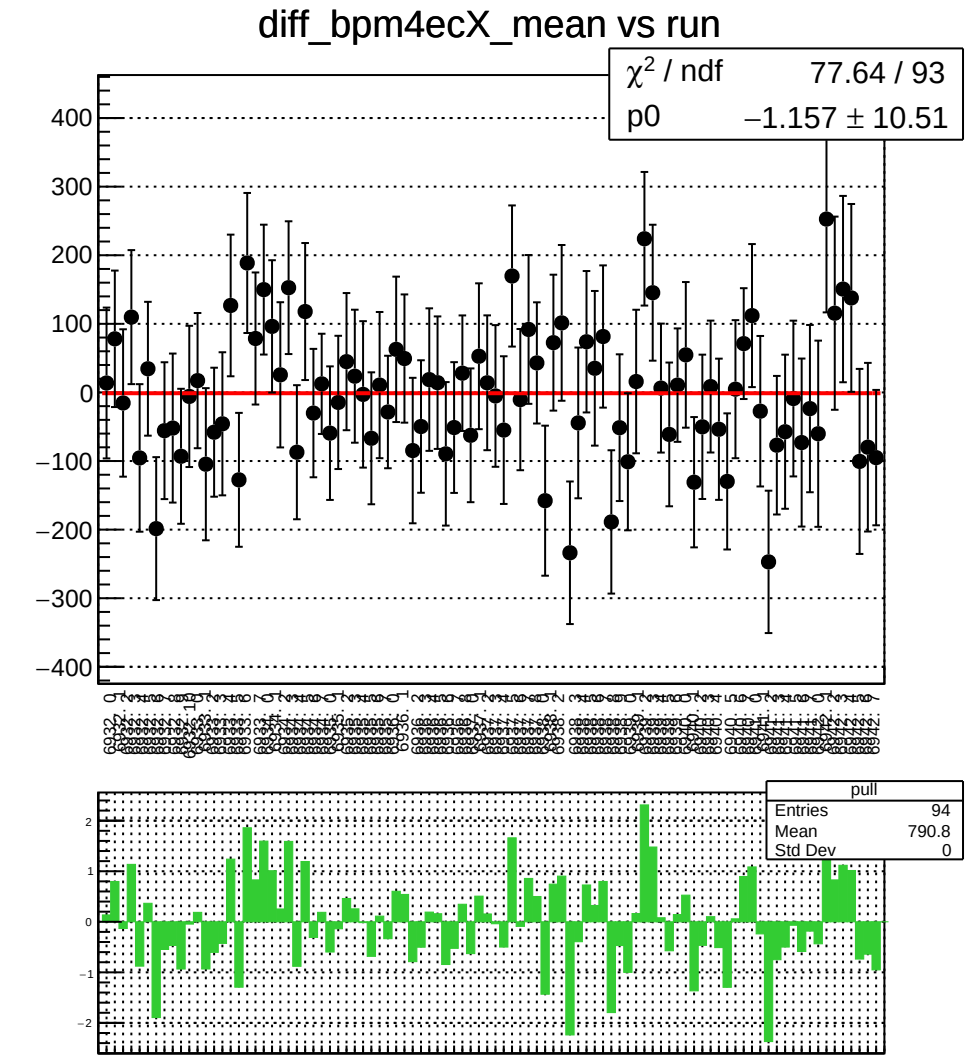

pull1D
Entries 94
Mean −0.001217
Std Dev 0.8992

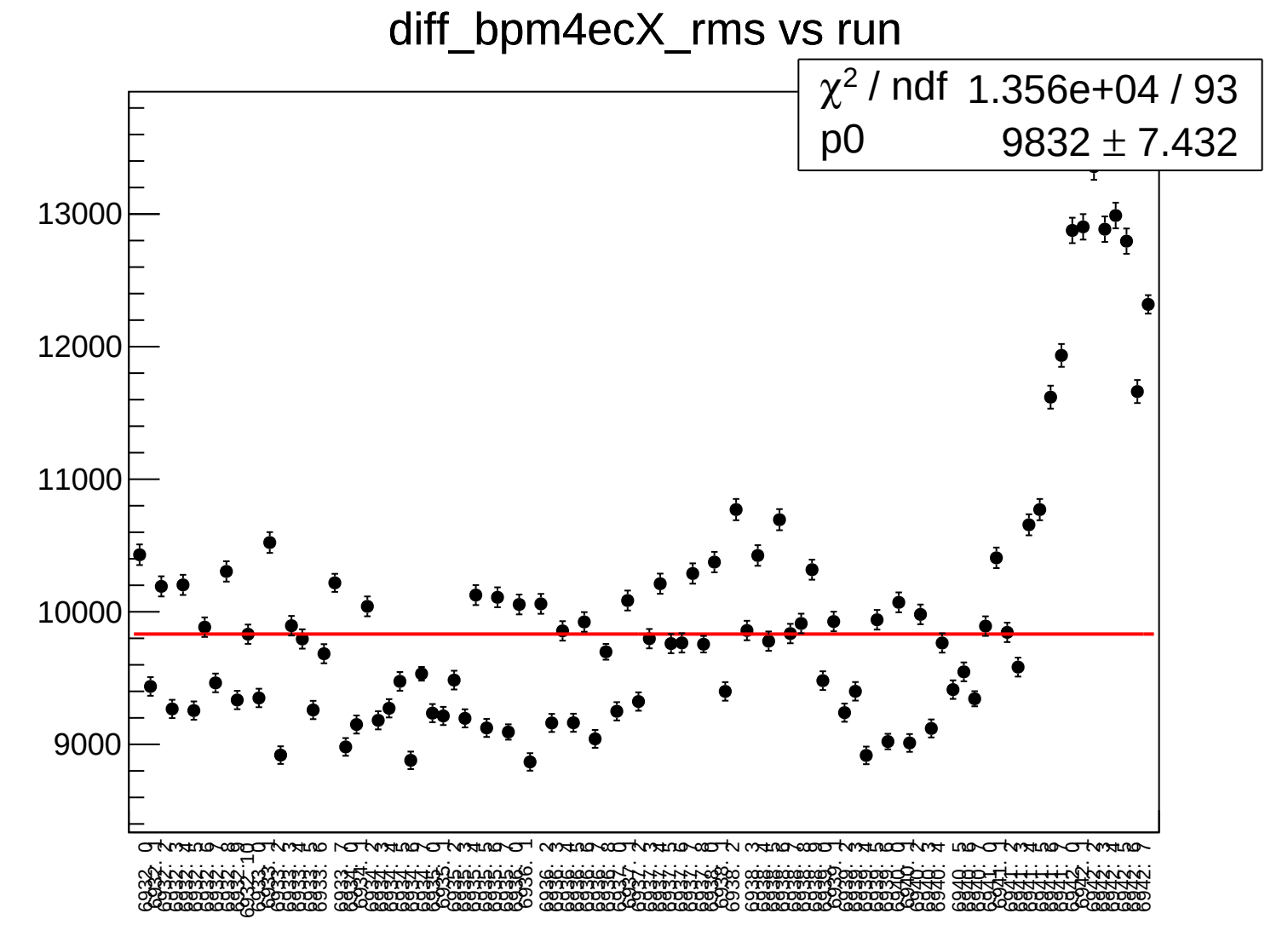

diff_bpm4acX_rms vs run
χ² / ndf 1.37e+04 / 93
p0 9833 ± 7.433
13000
12000
11000
10000
9000

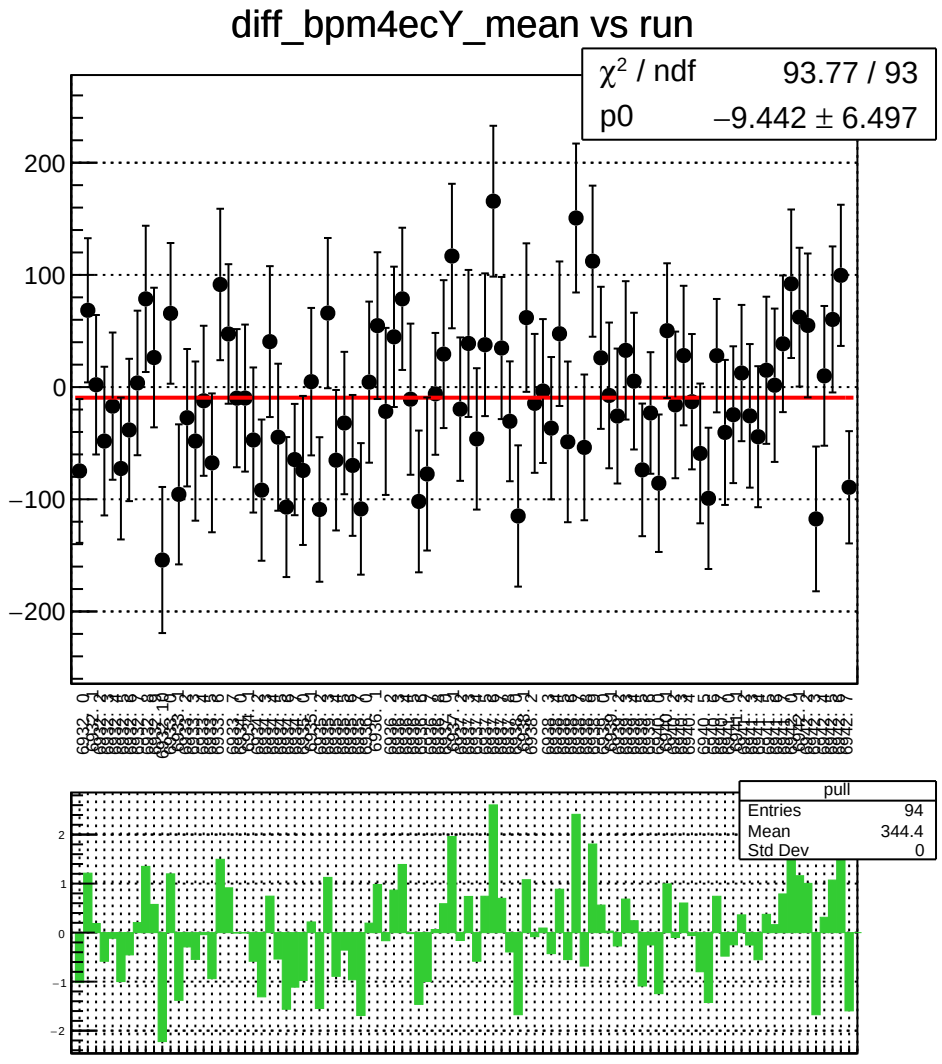

diff_bpm4acY_mean vs run
χ² / ndf 89.83 / 93
p0 −13.04 ± 7.124
200
100
0
−100
−200
pull
Entries 94
Mean 219
Std Dev 0
2
1
0
−1
−2

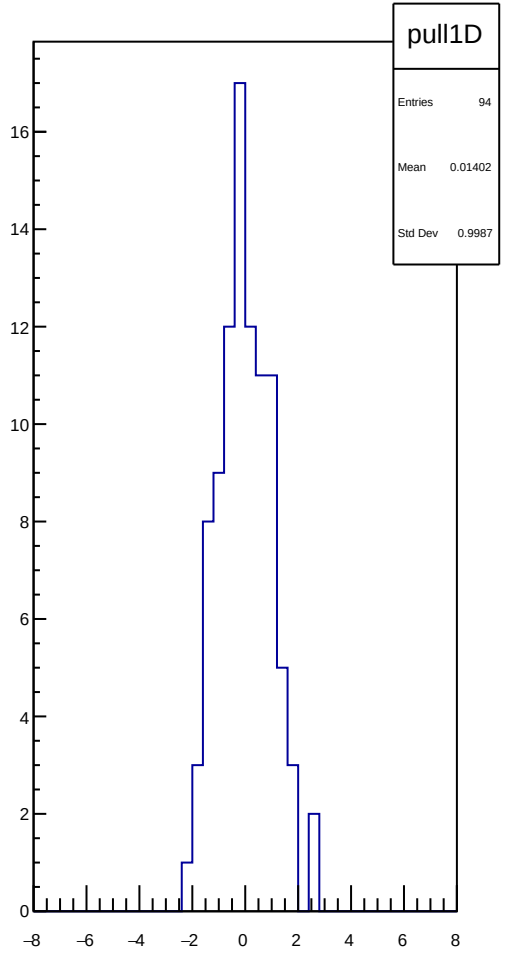

pull1D
Entries 94
Mean 0.02004
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

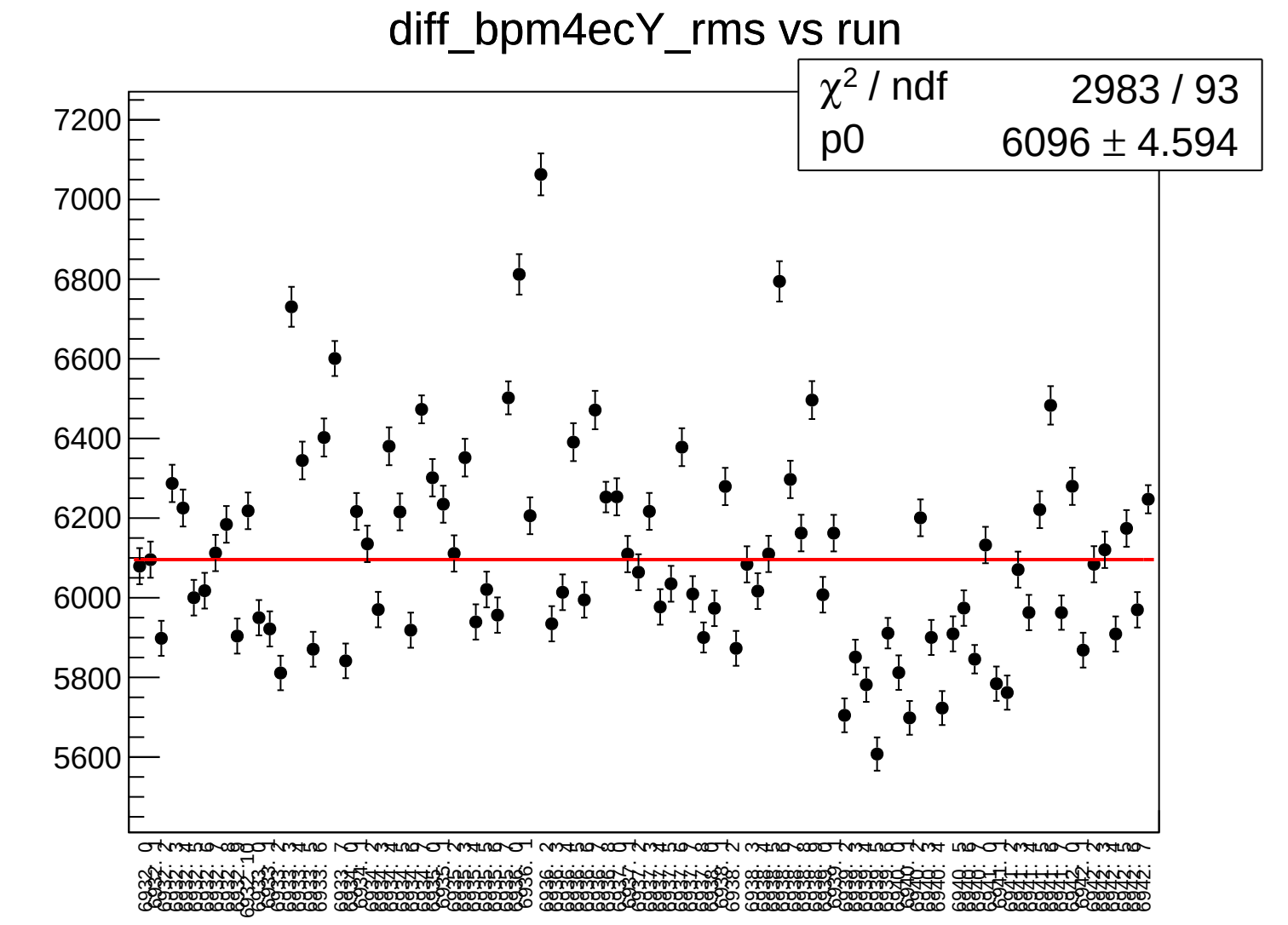

diff_bpm4acY_rms vs run
χ² / ndf 2950 / 93
p0 6685 ± 5.037
7400
7200
7000
6800
6600
6400
6200
6000
5800

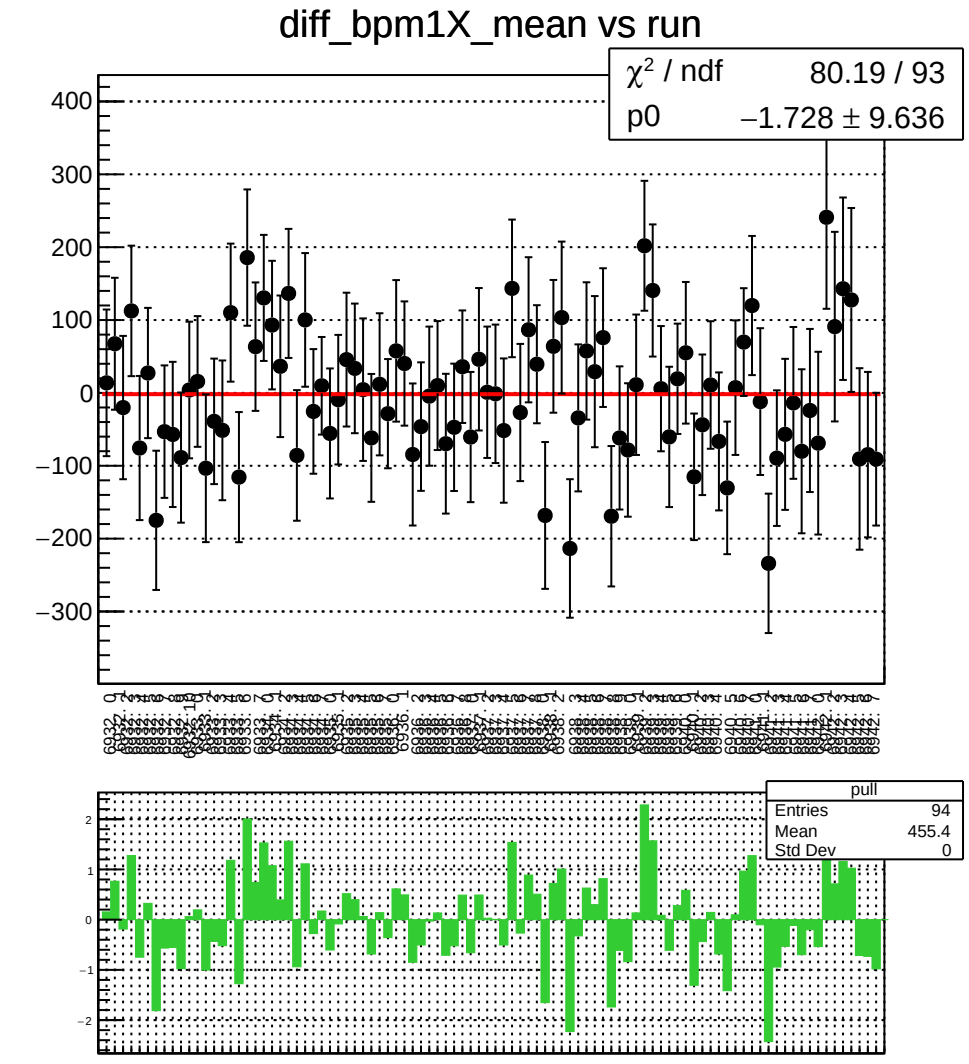

diff_bpm4ecX_mean vs run
χ² / ndf 77.64 / 93
p0 −1.157 ± 10.51
pull
Entries 94
Mean 790.8
Std Dev 0
pull1D
Entries 94
Mean −0.001491
Std Dev 0.9088

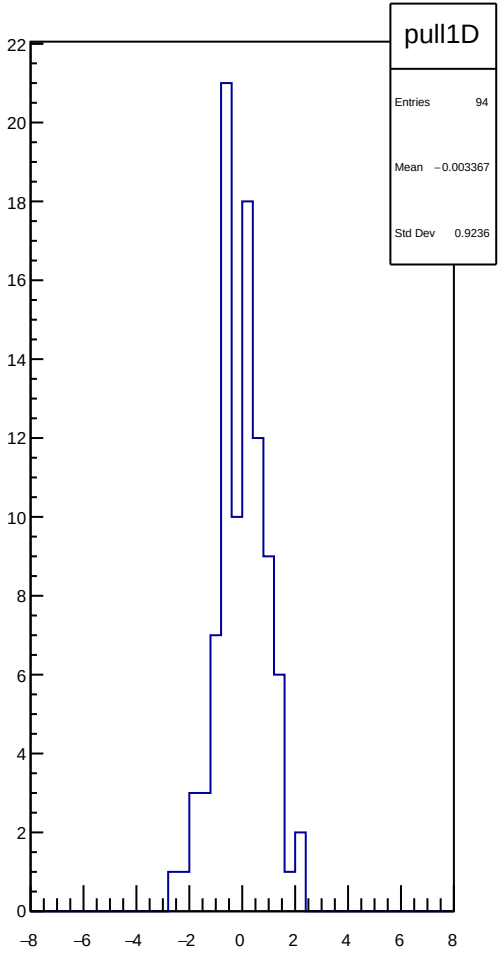

diff_bpm4ecX_rms vs run
χ² / ndf 1.356e+04 / 93
p0 9832 ± 7.432
13000
12000
11000
10000
9000

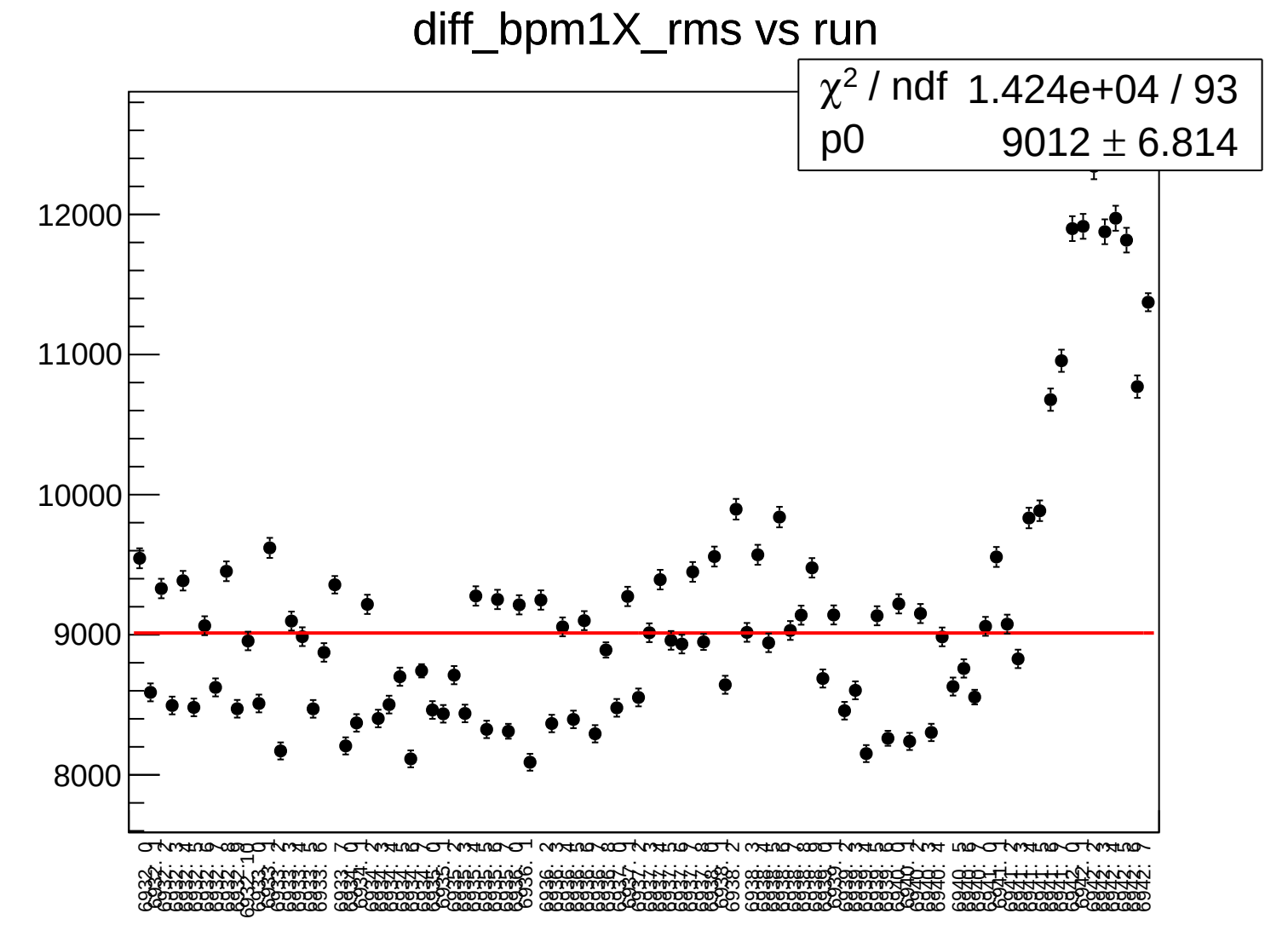

diff_bpm4ecY_mean vs run
χ^2 / ndf 93.77 / 93
p0 −9.442 ± 6.497
200
100
0
−100
−200
pull
Entries 94
Mean 344.4
Std Dev 0
2
1
0
−1
−2

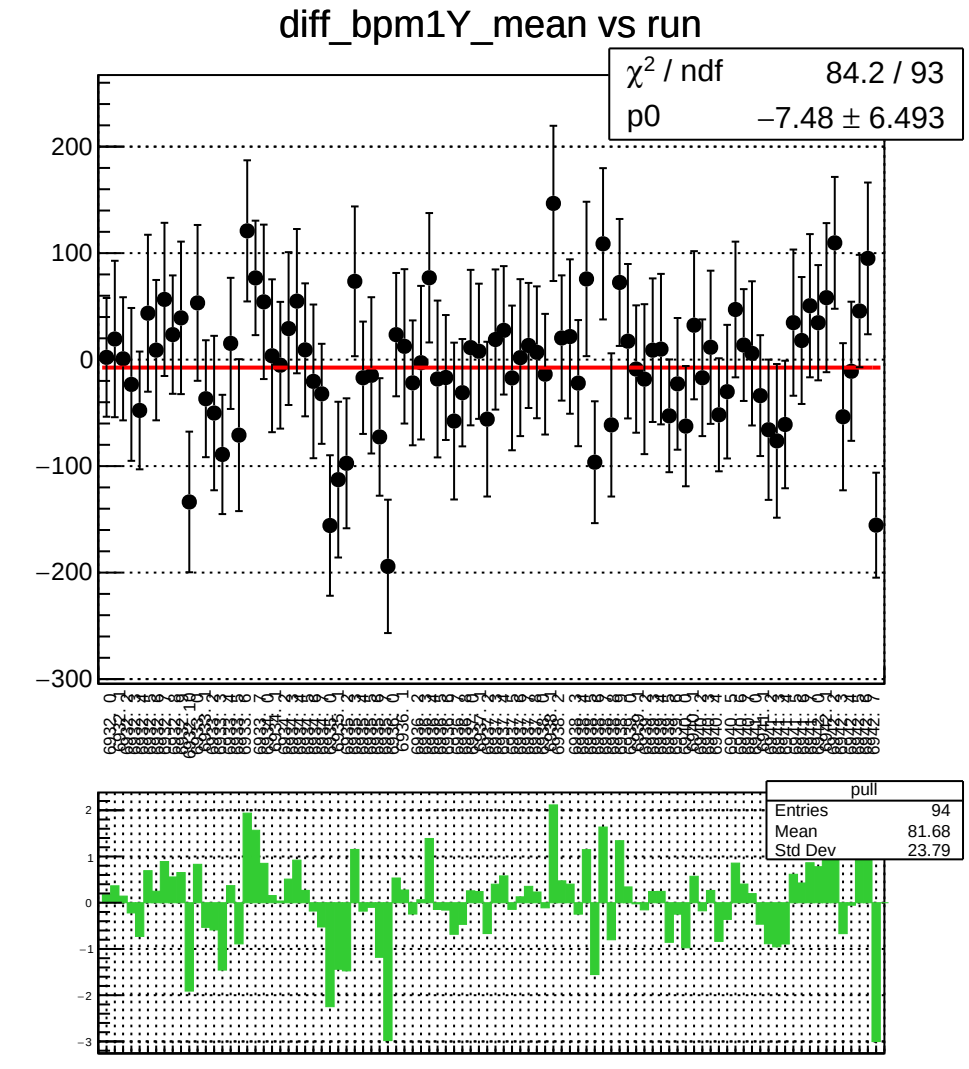

pull1D
Entries 94
Mean 0.01402
Std Dev 0.9987
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

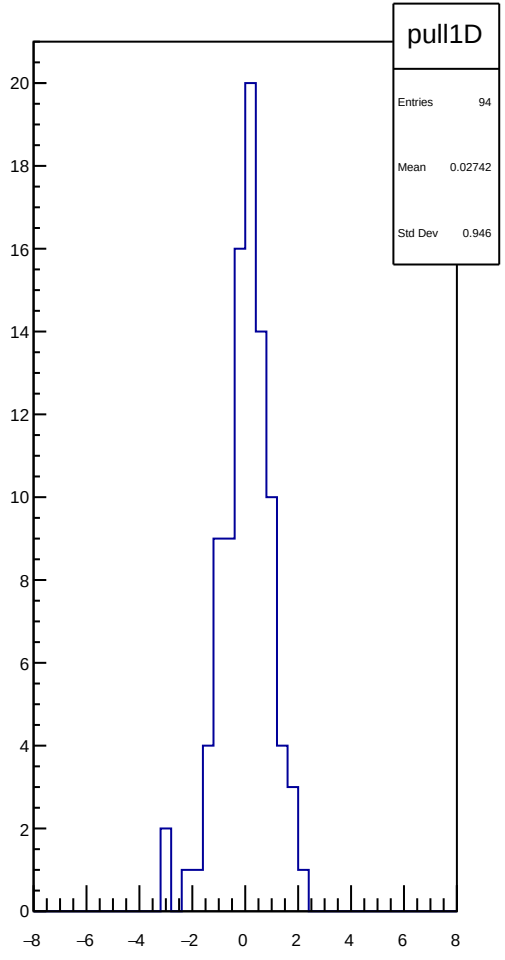

diff_bpm4ecY_rms vs run
χ² / ndf 2983 / 93
p0 6096 ± 4.594
7200
7000
6800
6600
6400
6200
6000
5800
5600

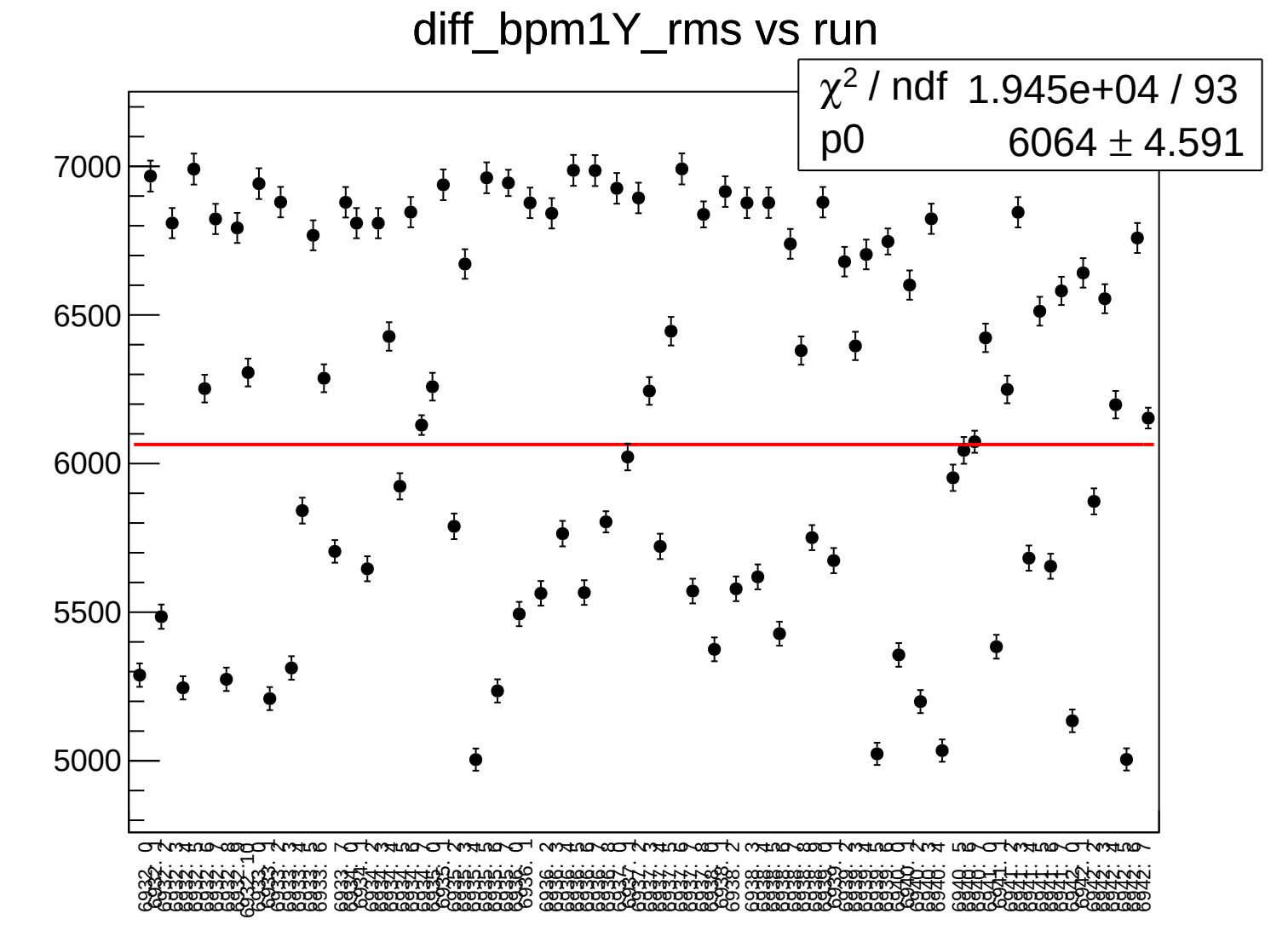

diff_bpm1X_mean vs run
χ² / ndf 80.19 / 93
p0 −1.728 ± 9.636
pull
Entries 94
Mean 455.4
Std Dev 0

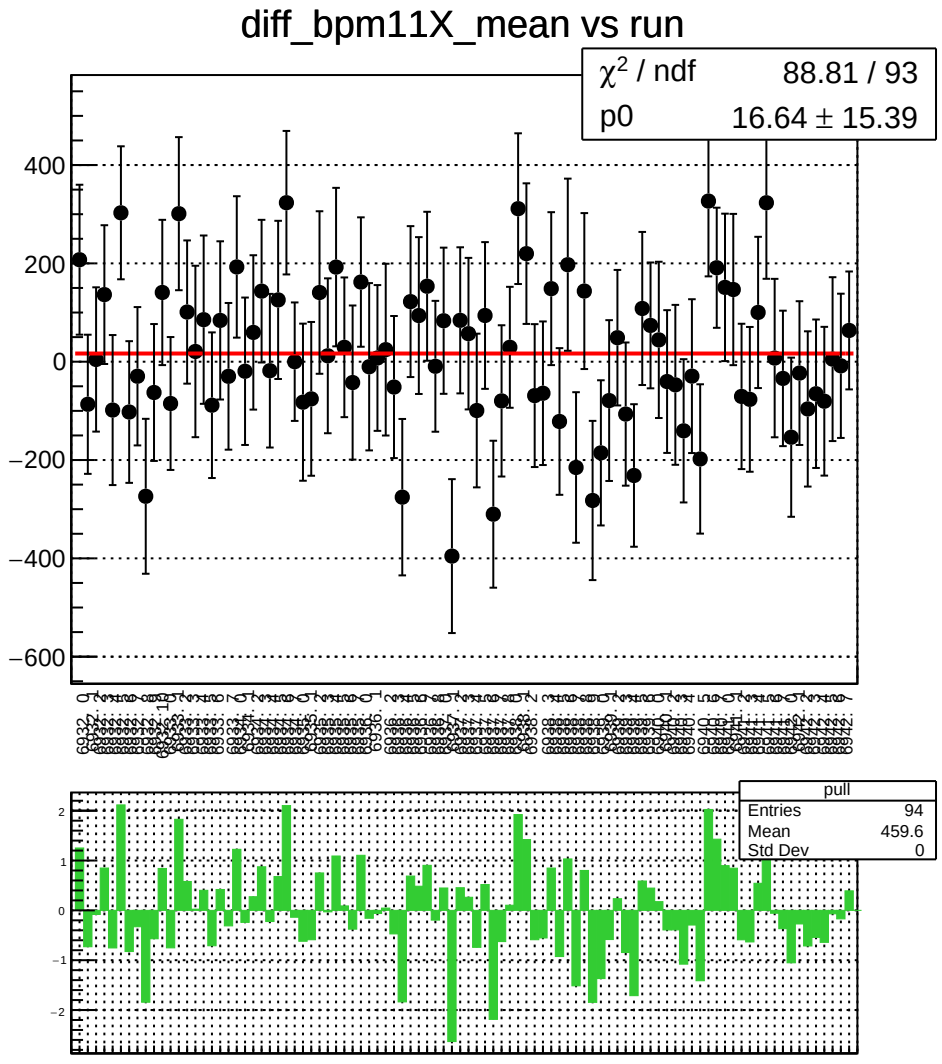

pull1D
Entries 94
Mean −0.003367
Std Dev 0.9236

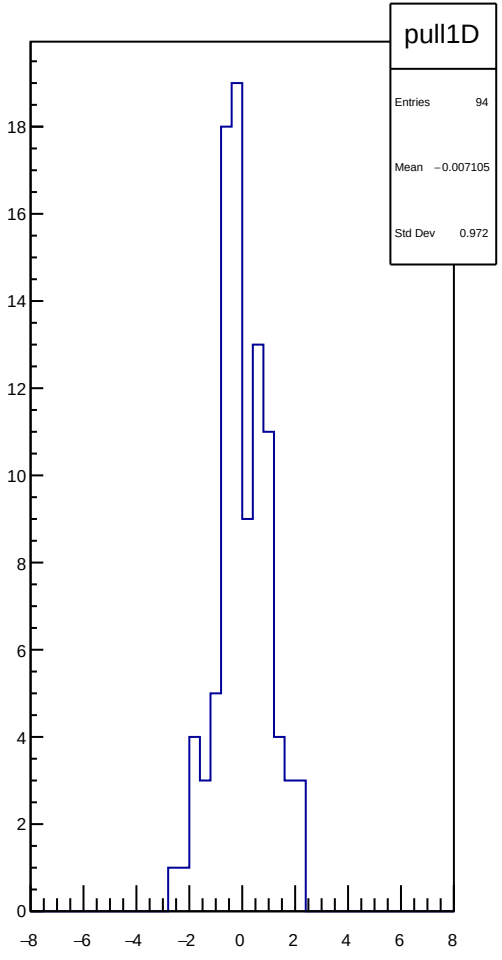

diff_bpm1X_rms vs run
χ² / ndf 1.424e+04 / 93
p0 9012 ± 6.814
12000
11000
10000
9000
8000

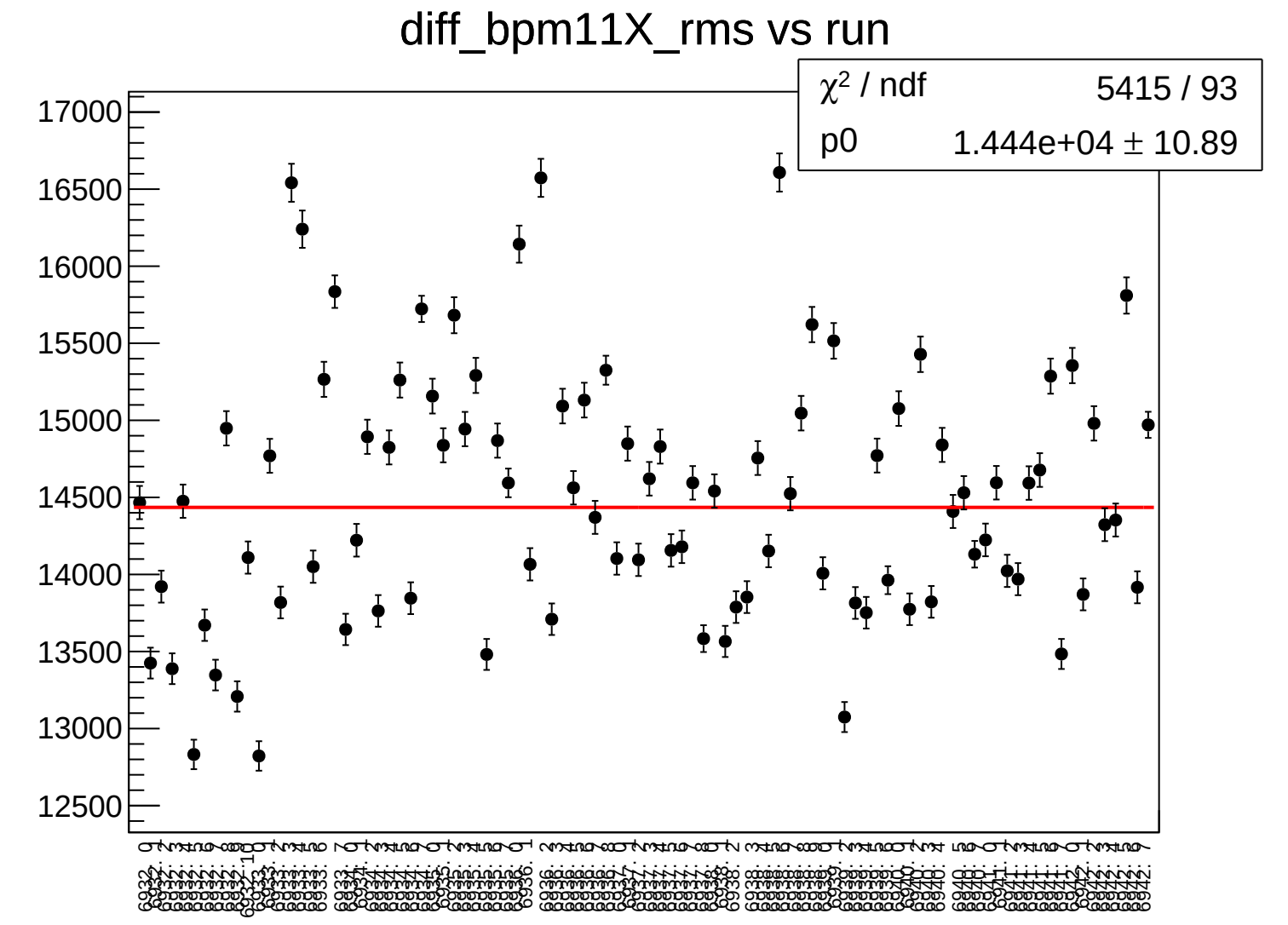

diff_bpm1Y_mean vs run
χ² / ndf 84.2 / 93
p0 −7.48 ± 6.493
pull
Entries 94
Mean 81.68
Std Dev 23.79

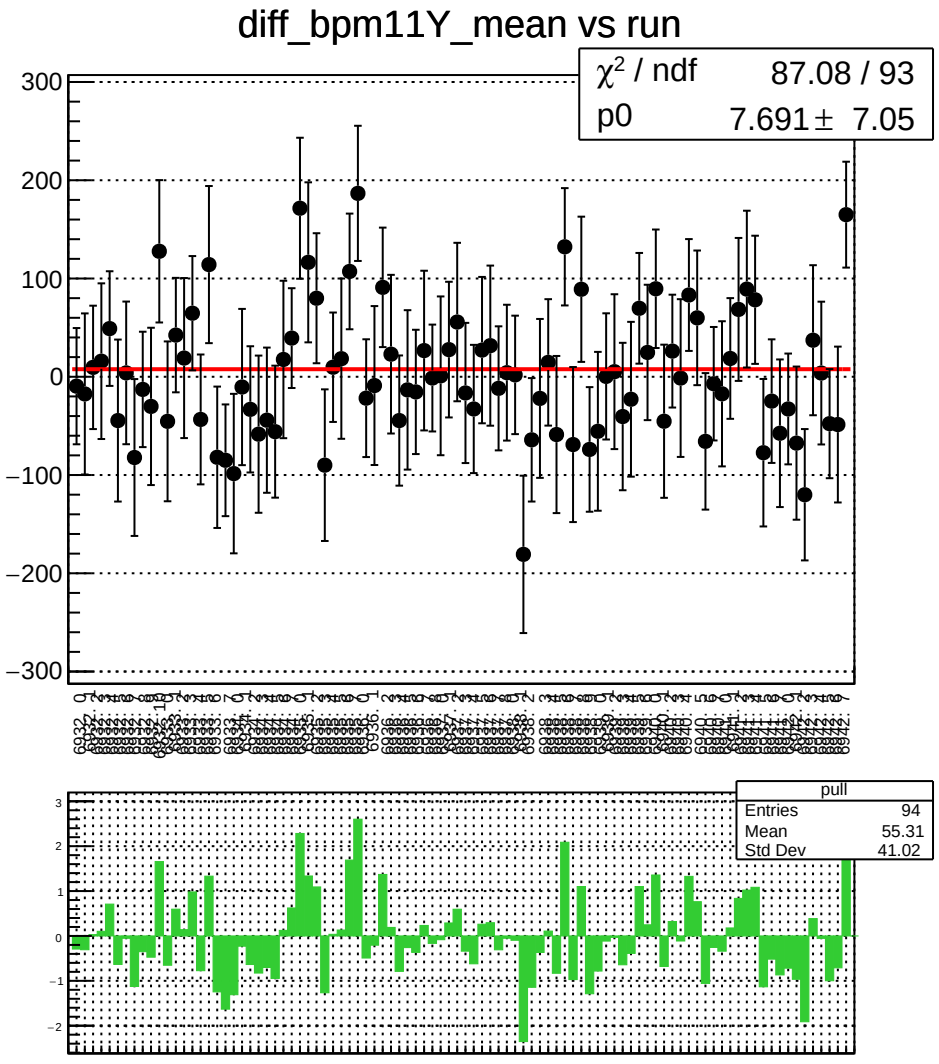

pull1D
Entries 94
Mean 0.02742
Std Dev 0.946

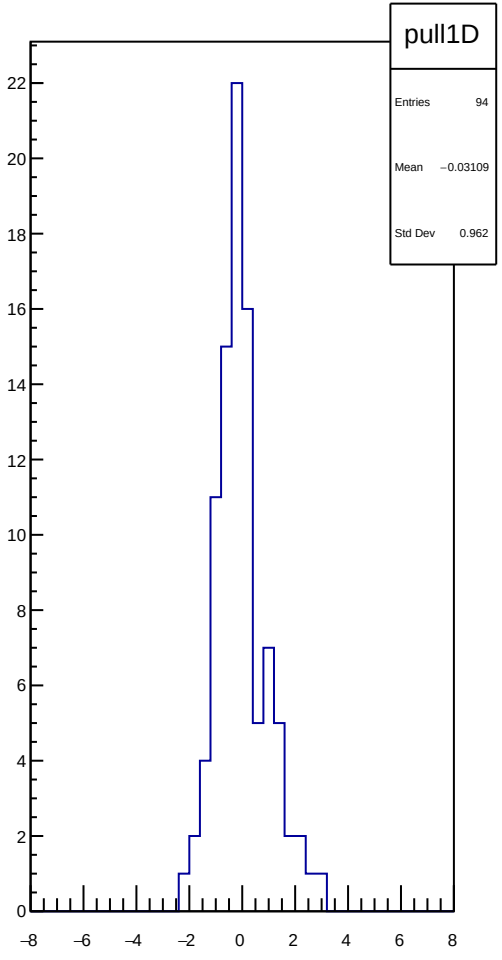

diff_bpm1Y_rms vs run
χ² / ndf 1.945e+04 / 93
p0 6064 ± 4.591
7000
6500
6000
5500
5000

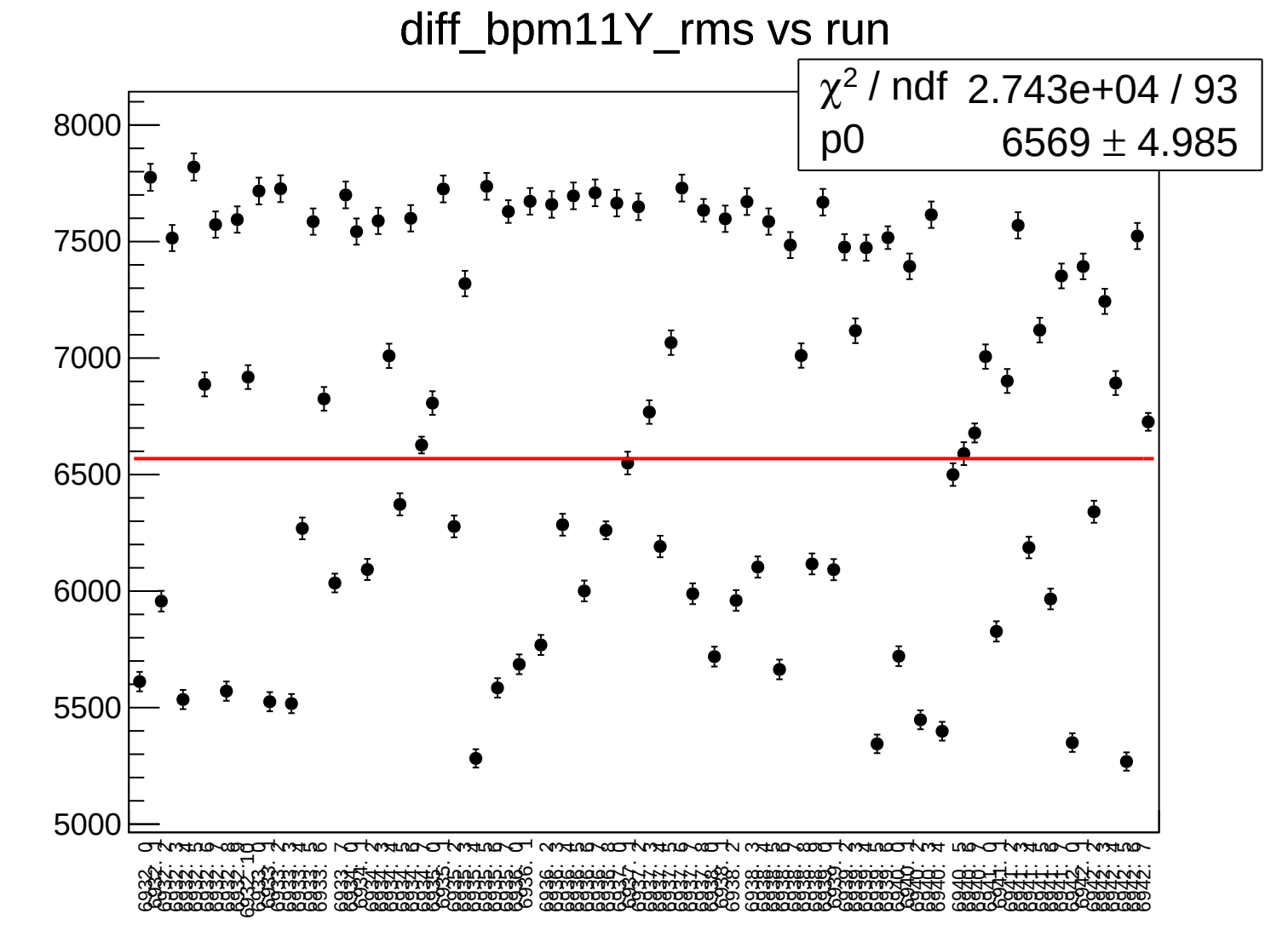

diff_bpm11X_mean vs run
χ² / ndf 88.81 / 93
p0 16.64 ± 15.39
400
200
0
−200
−400
−600
pull
Entries 94
Mean 459.6
Std Dev 0
2
1
0
−1
−2

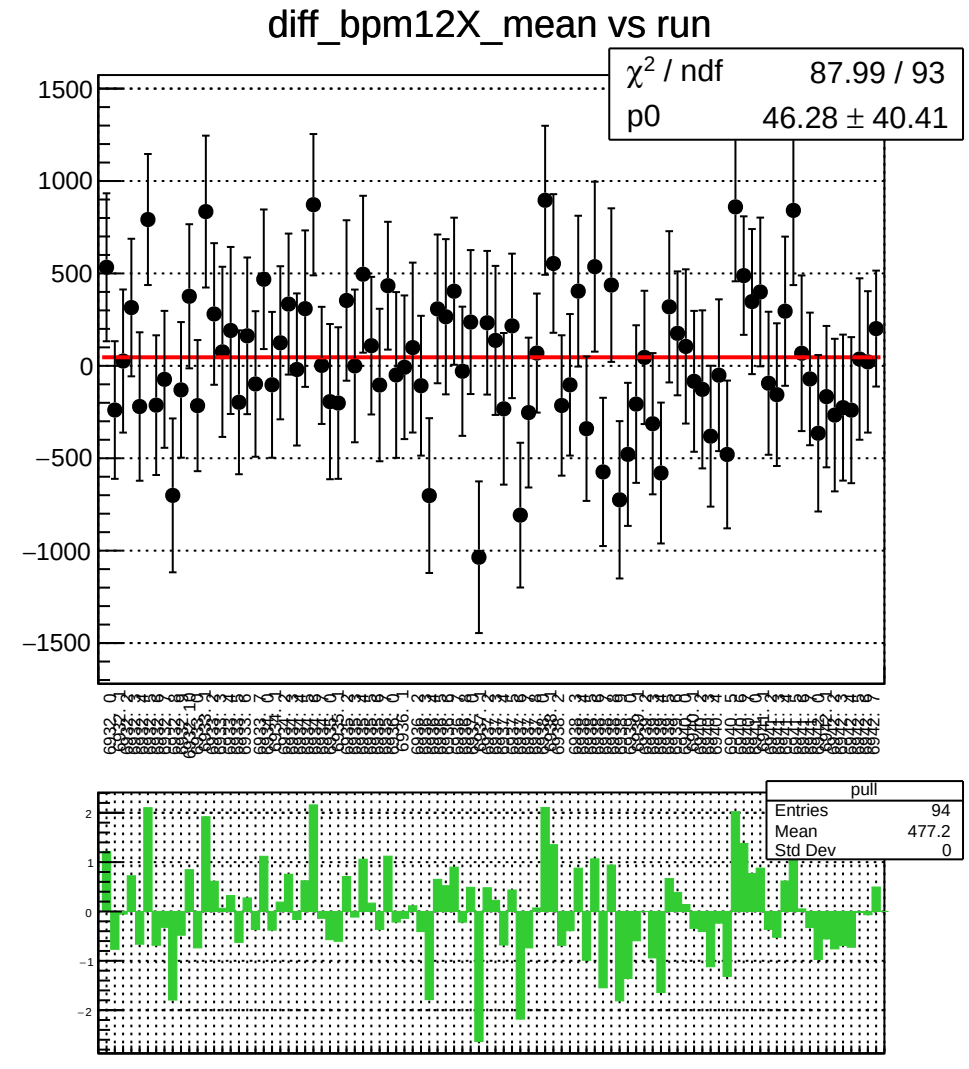

pull1D
Entries 94
Mean −0.007105
Std Dev 0.972
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

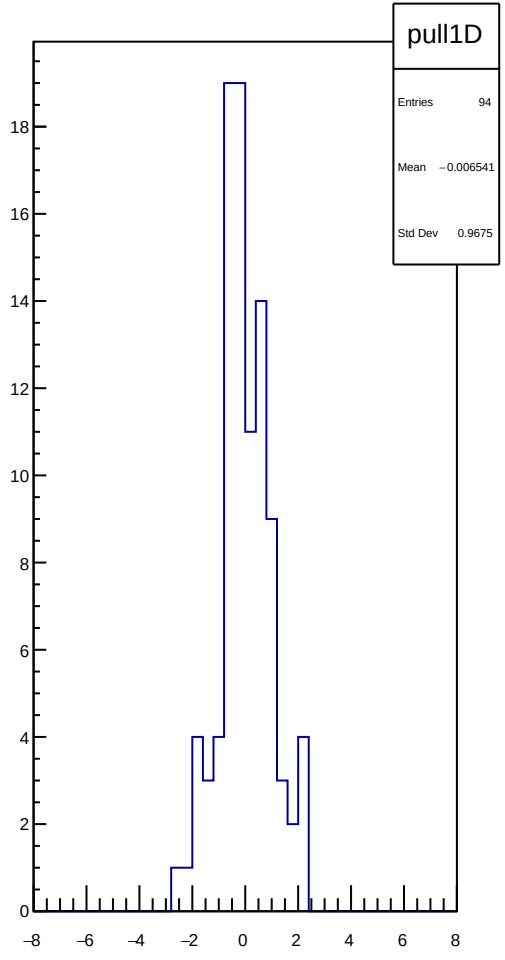

diff_bpm11X_rms vs run
χ² / ndf 5415 / 93
p0 1.444e+04 ± 10.89
17000
16500
16000
15500
15000
14500
14000
13500
13000
12500

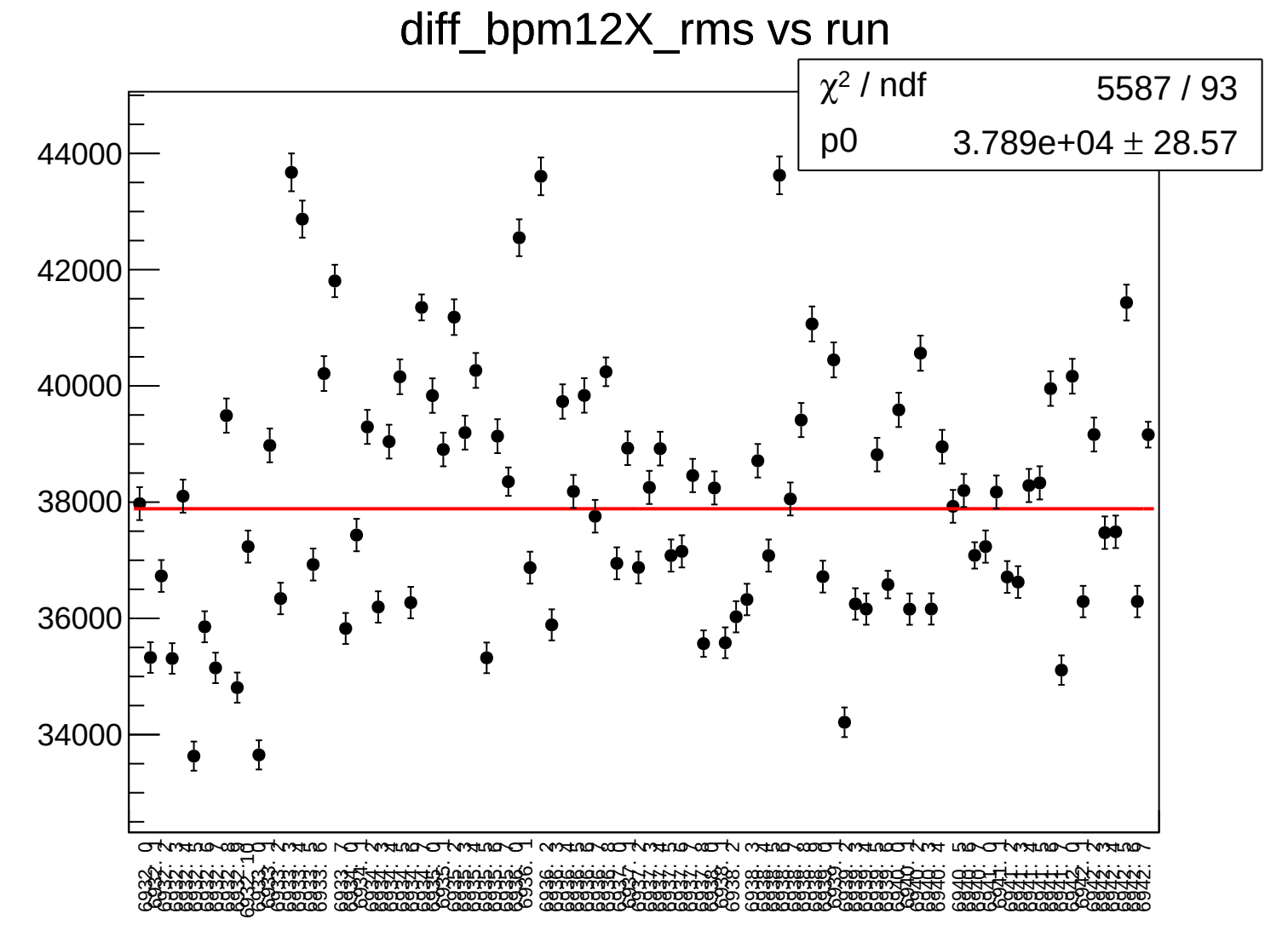

diff_bpm11Y_mean vs run
χ² / ndf 87.08 / 93
p0 7.691 ± 7.05
pull
Entries 94
Mean 55.31
Std Dev 41.02

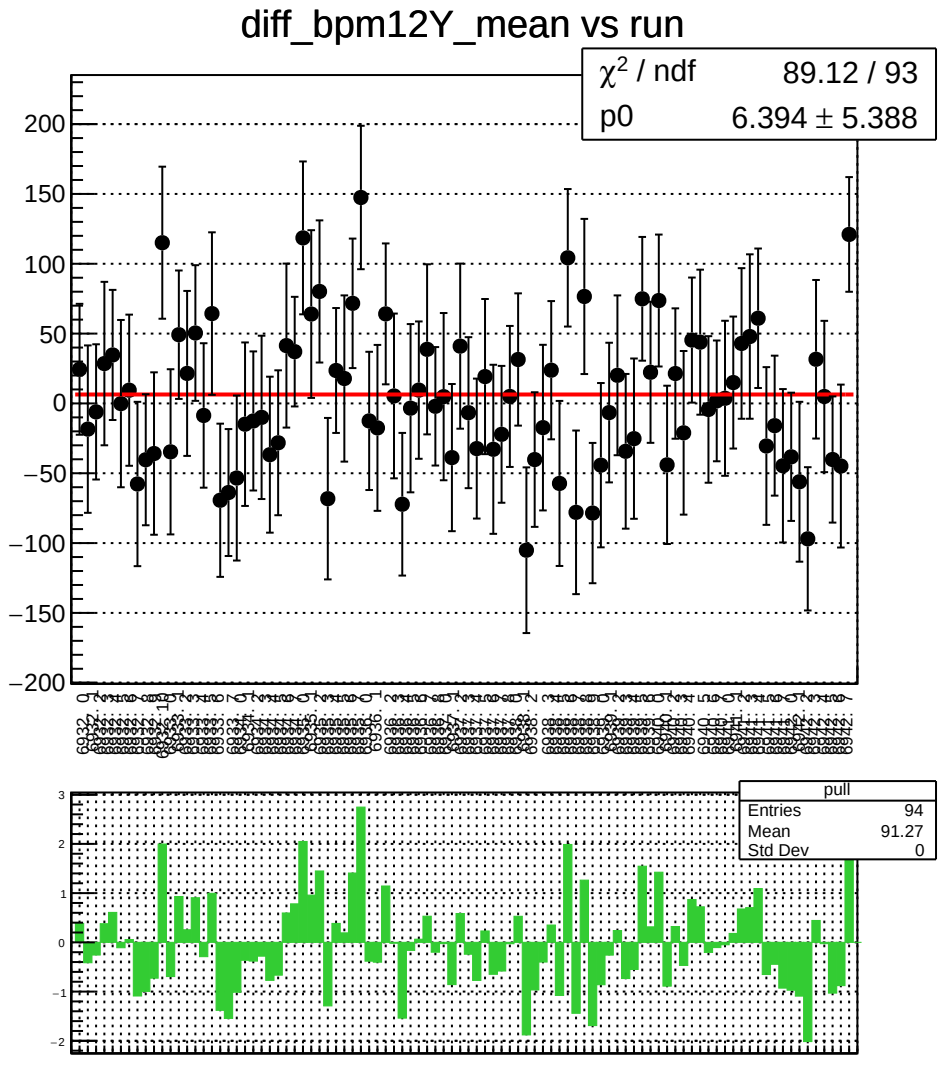

pull1D
Entries 94
Mean −0.03109
Std Dev 0.962

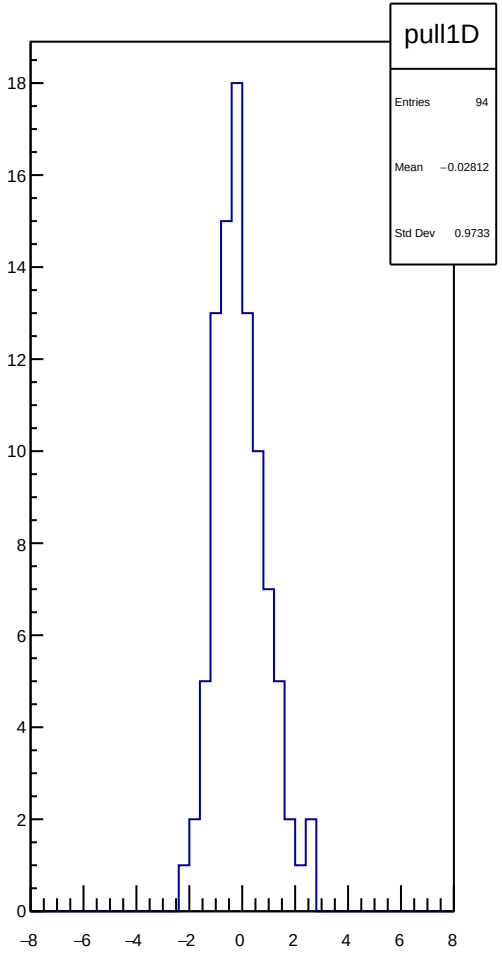

diff_bpm11Y_rms vs run
χ² / ndf 2.743e+04 / 93
p0 6569 ± 4.985
8000
7500
7000
6500
6000
5500
5000

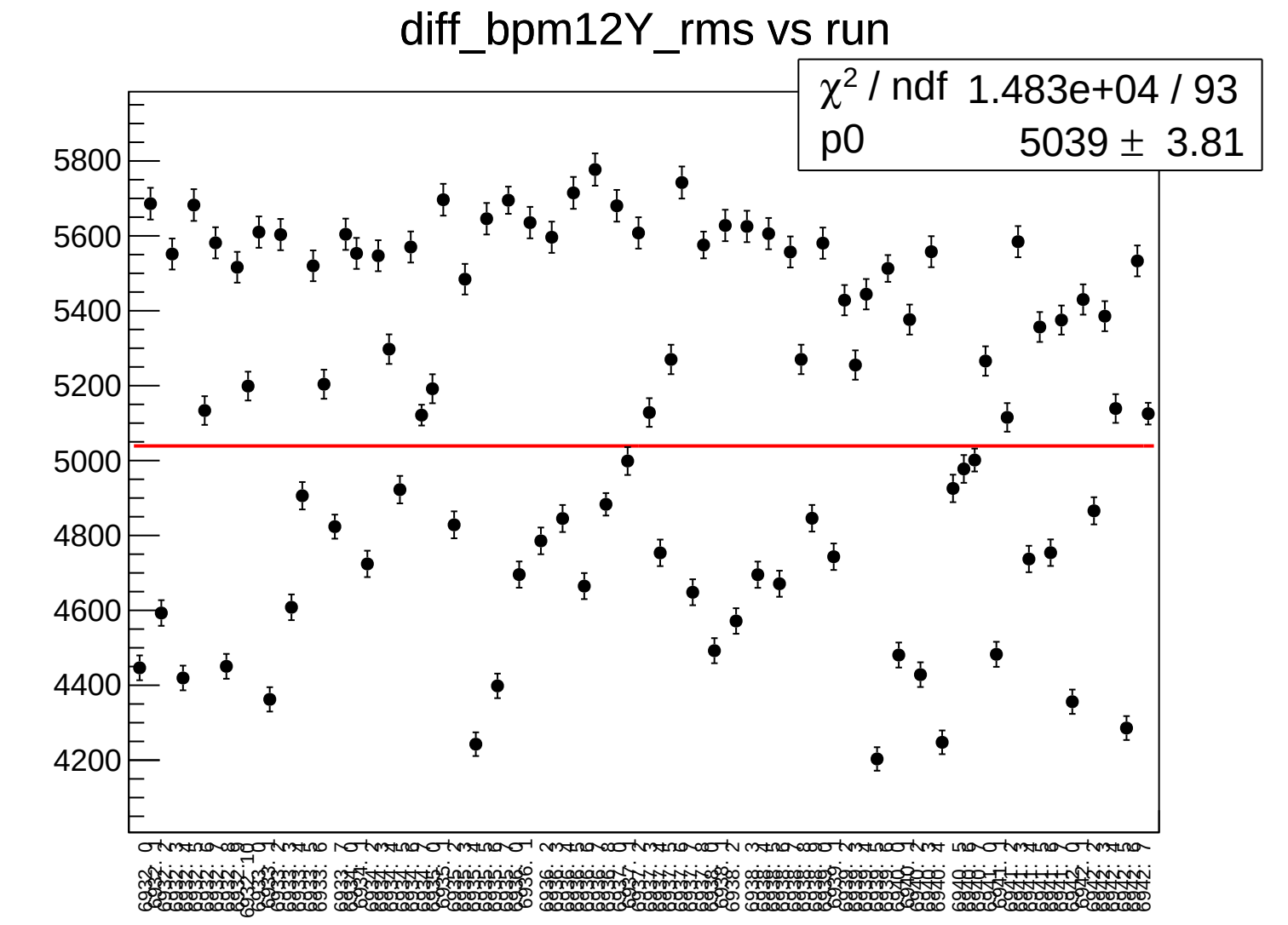

diff_bpm12X_mean vs run
χ² / ndf 87.99 / 93
p0 46.28 ± 40.41
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 477.2
Std Dev 0
2
1
0
−1
−2

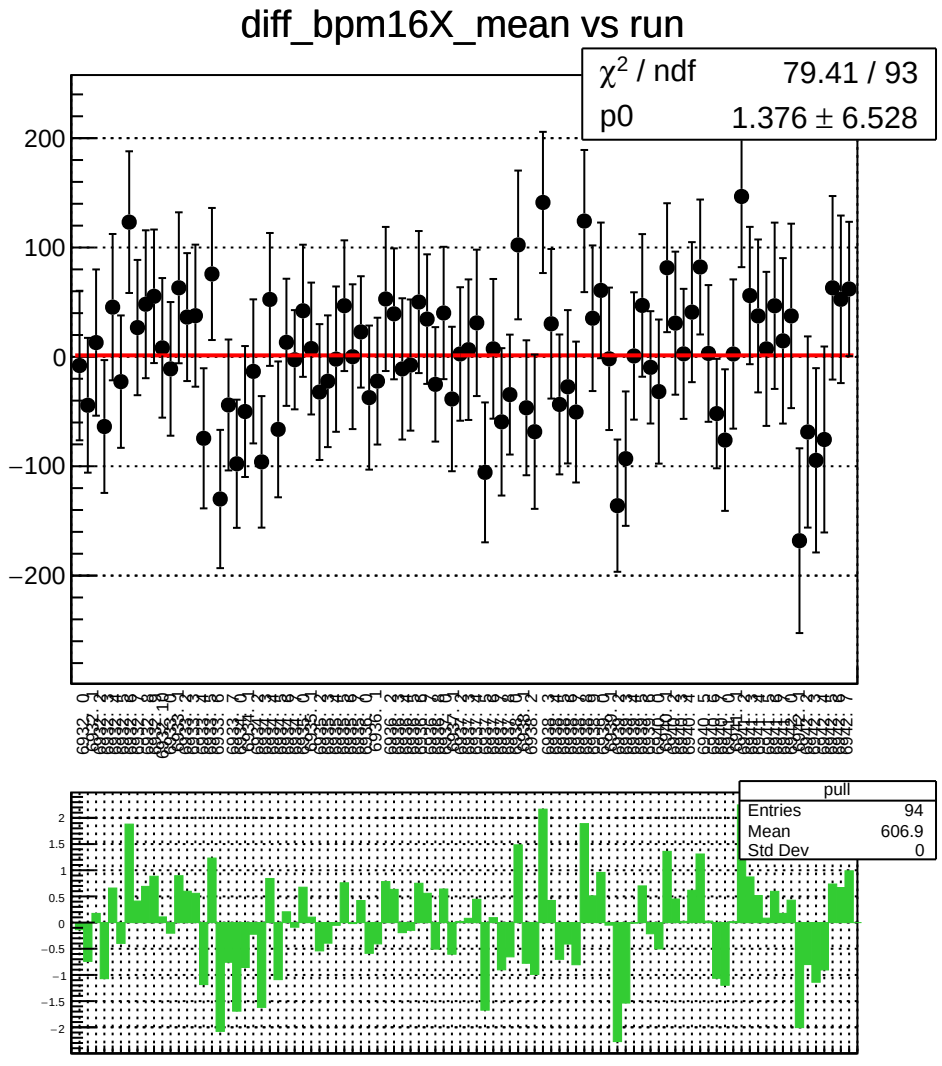

pull1D
Entries 94
Mean −0.006541
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

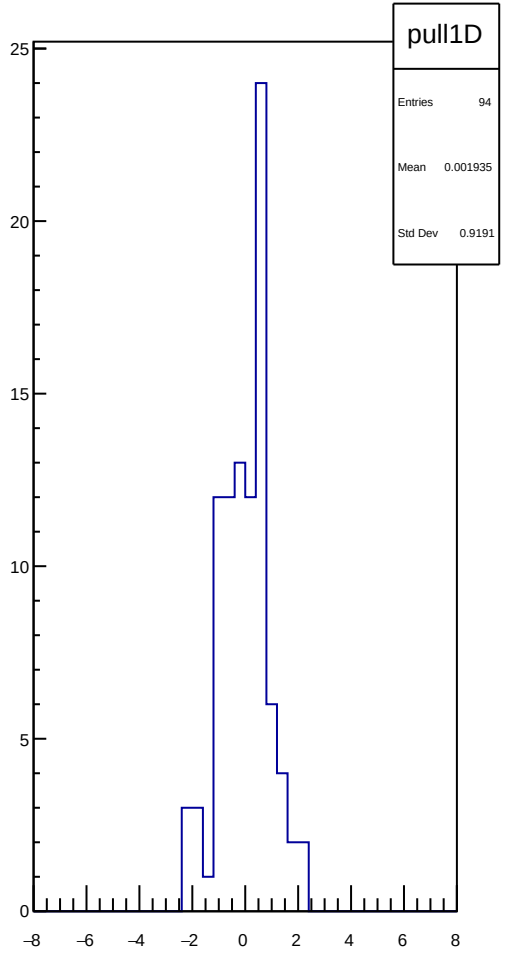

diff_bpm12X_rms vs run
χ² / ndf 5587 / 93
p0 3.789e+04 ± 28.57
44000
42000
40000
38000
36000
34000

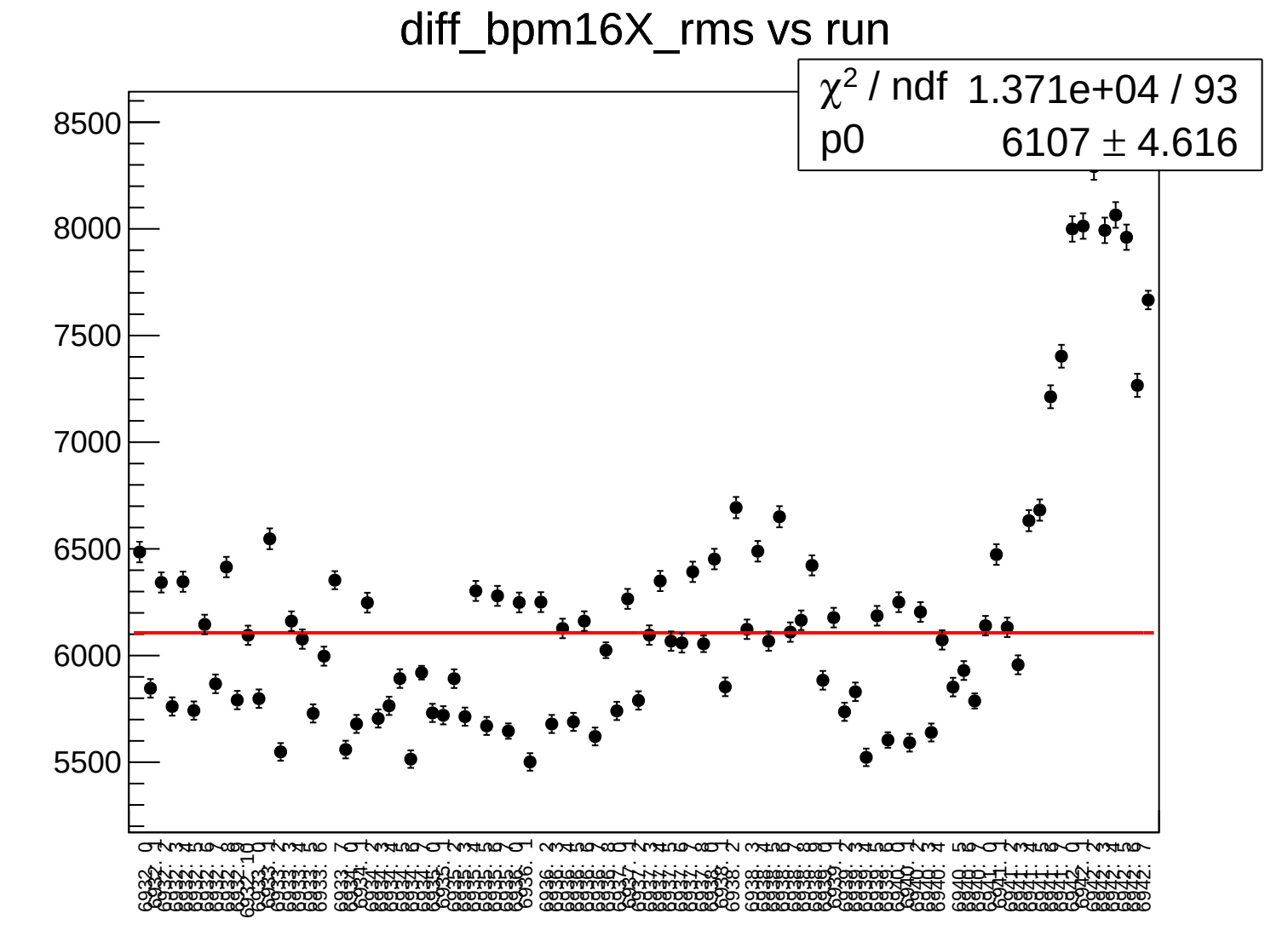

diff_bpm12Y_mean vs run
χ^2 / ndf 89.12 / 93
p0 6.394 ± 5.388
pull
Entries 94
Mean 91.27
Std Dev 0

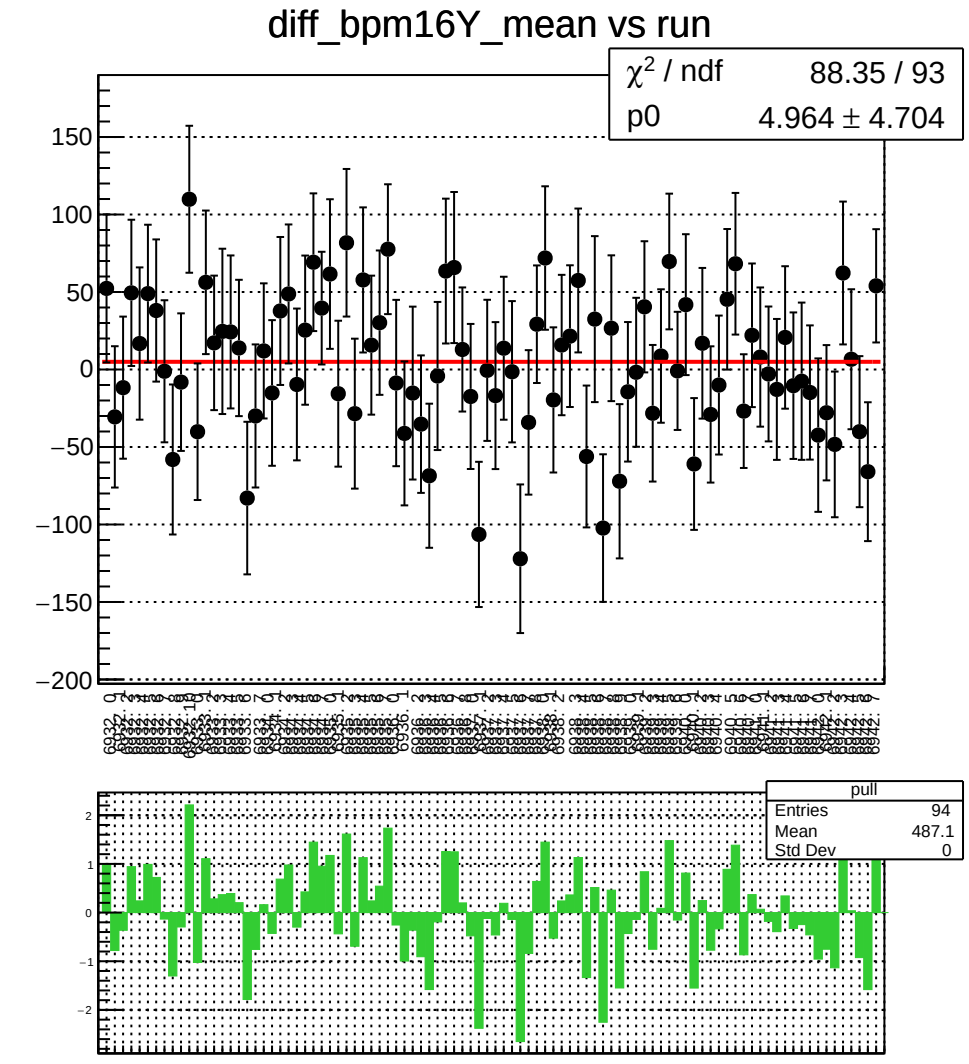

pull1D
Entries 94
Mean −0.02812
Std Dev 0.9733

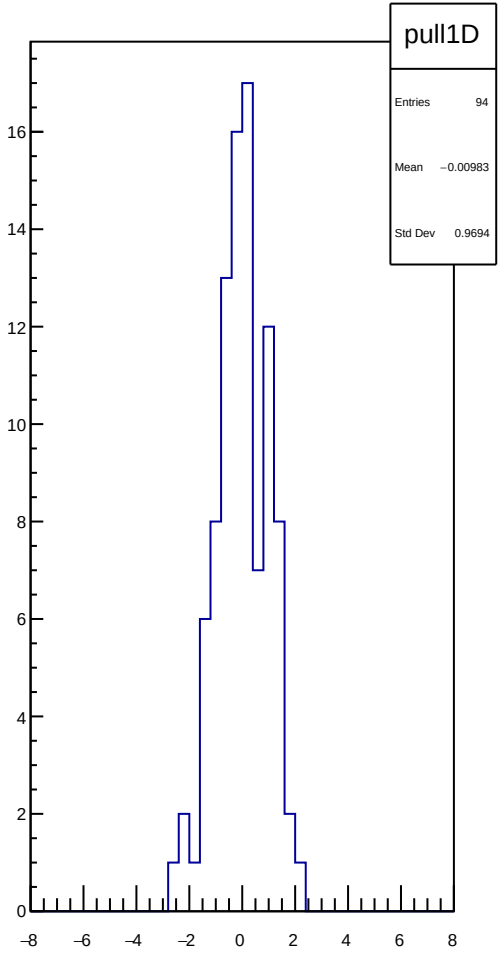

diff_bpm12Y_rms vs run
χ² / ndf 1.483e+04 / 93
p0 5039 ± 3.81
5800
5600
5400
5200
5000
4800
4600
4400
4200

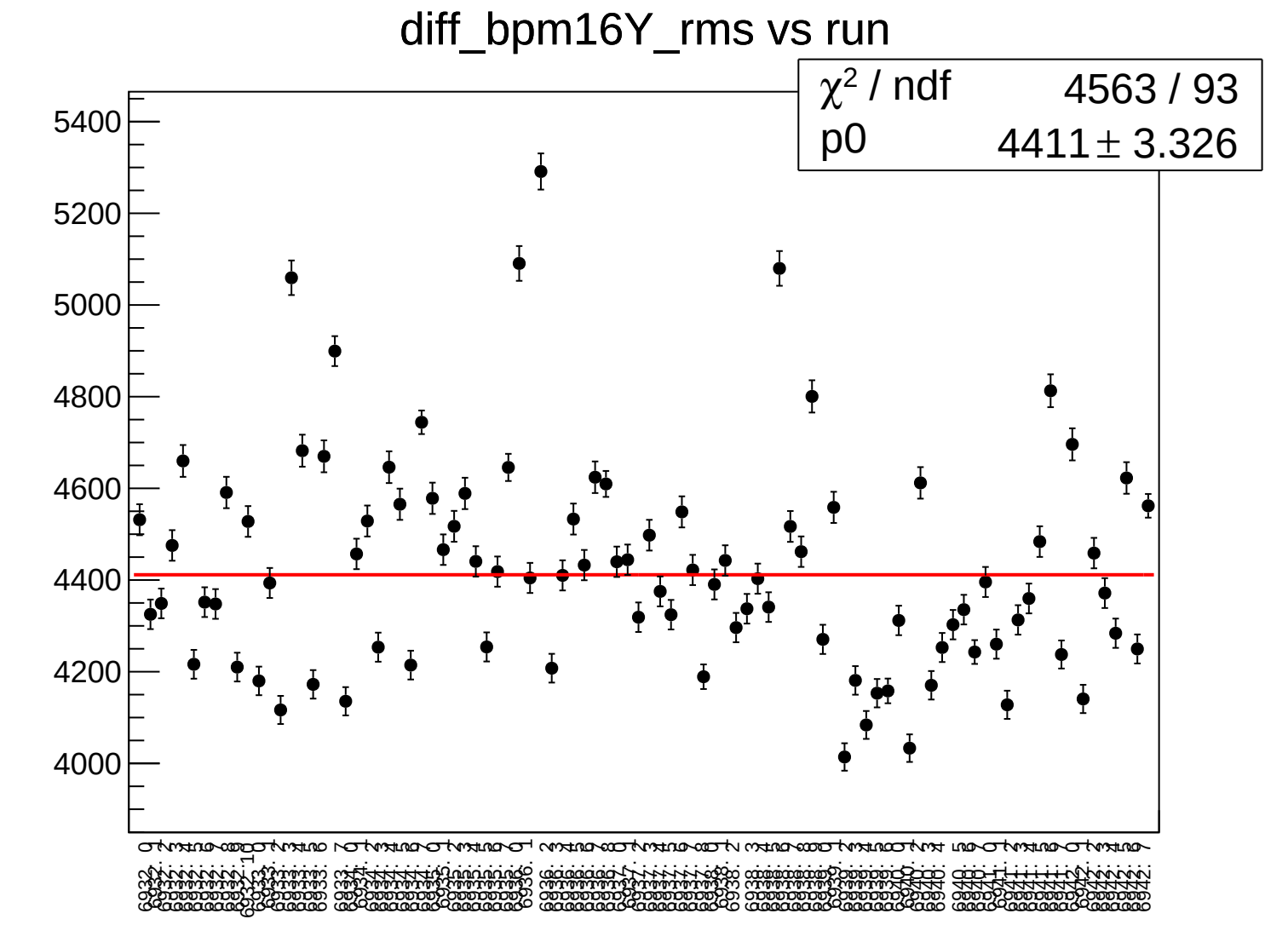

diff_bpm16X_mean vs run
χ² / ndf 79.41 / 93
p0 1.376 ± 6.528
200
100
0
−100
−200
pull
Entries 94
Mean 606.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

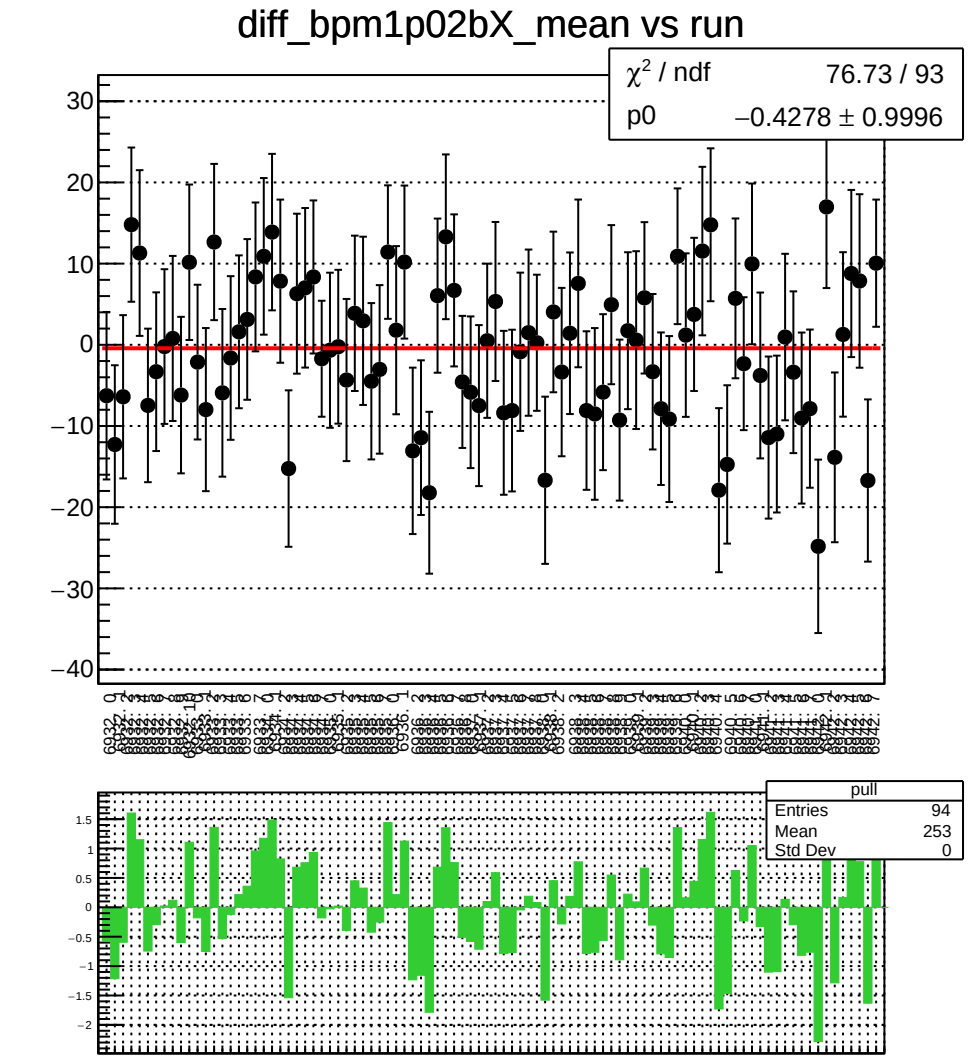

pull1D
Entries 94
Mean 0.001935
Std Dev 0.9191
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

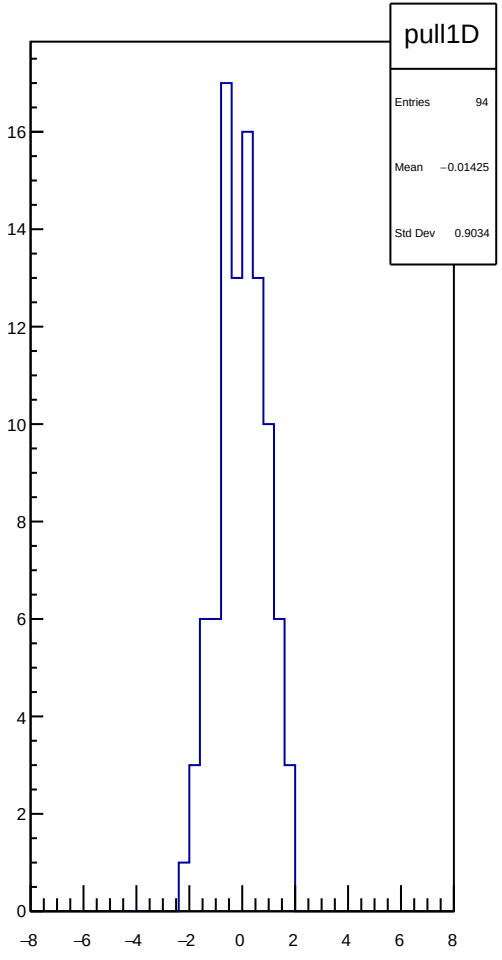

diff_bpm16X_rms vs run
χ² / ndf 1.371e+04 / 93
p0 6107 ± 4.616
8500
8000
7500
7000
6500
6000
5500

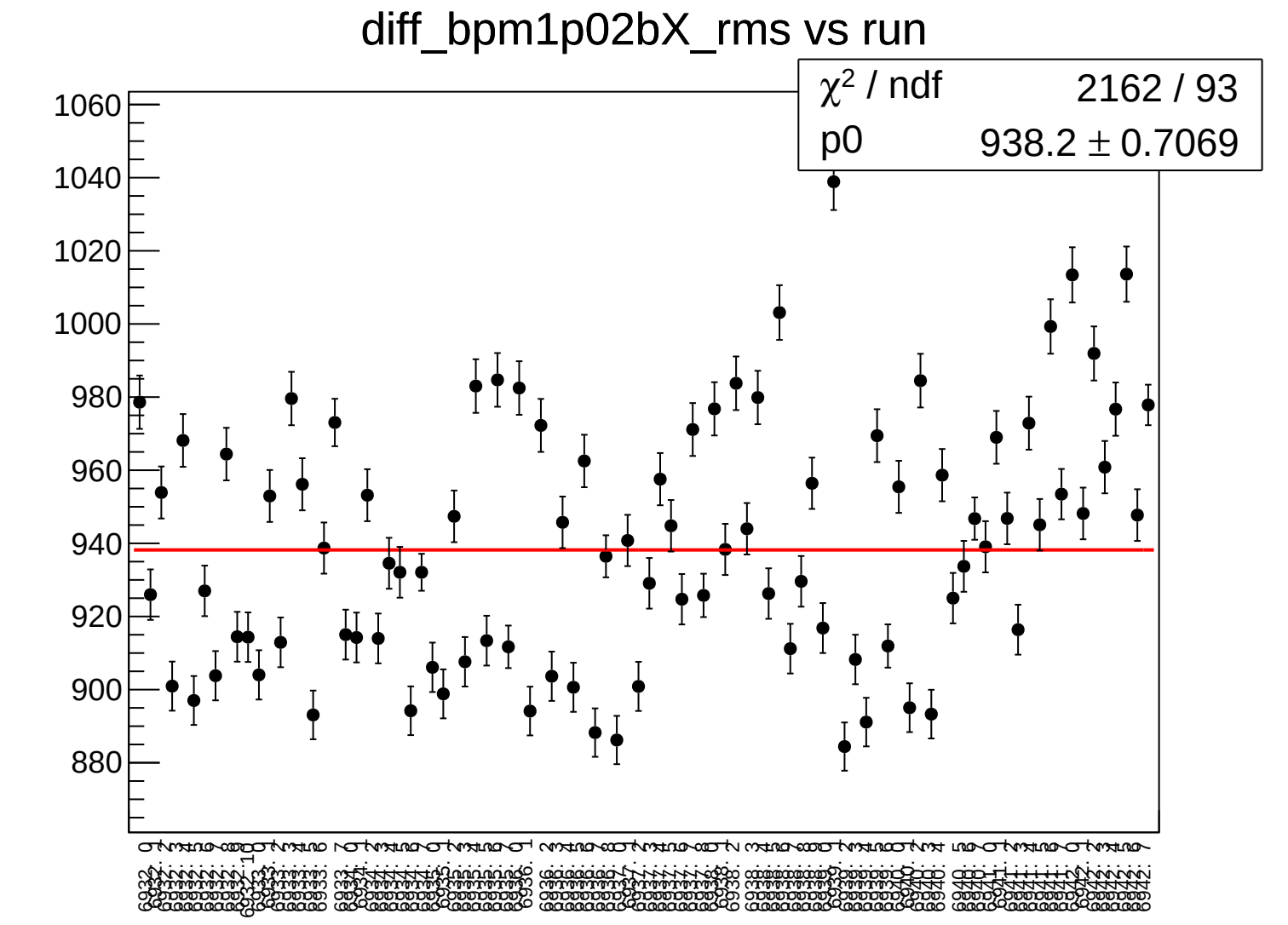

diff_bpm16Y_mean vs run
χ² / ndf 88.35 / 93
p0 4.964 ± 4.704
pull
Entries 94
Mean 487.1
Std Dev 0

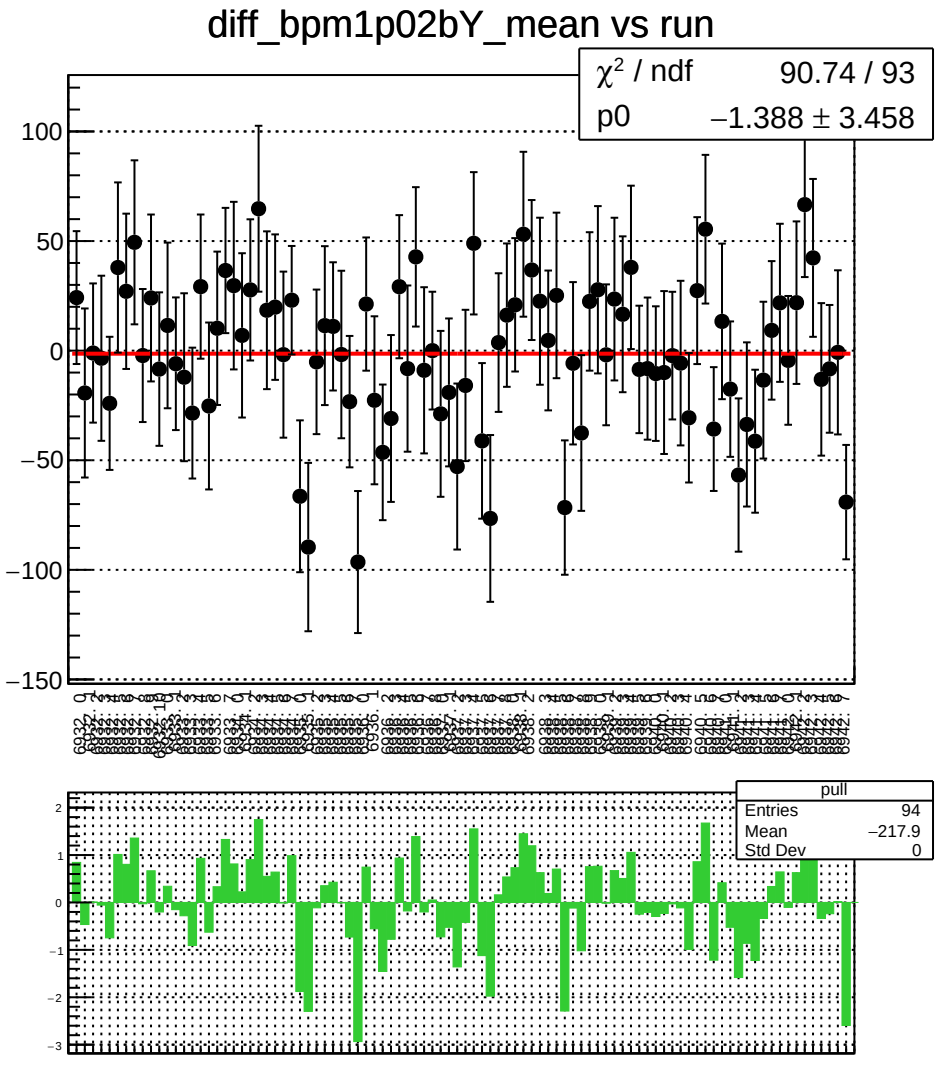

pull1D
Entries 94
Mean −0.00983
Std Dev 0.9694

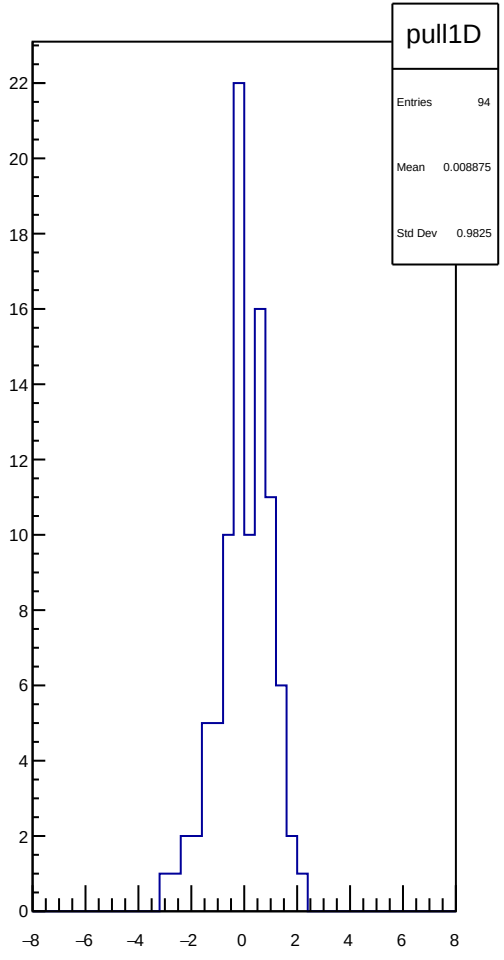

diff_bpm16Y_rms vs run
χ² / ndf 4563 / 93
p0 4411 ± 3.326
5400
5200
5000
4800
4600
4400
4200
4000

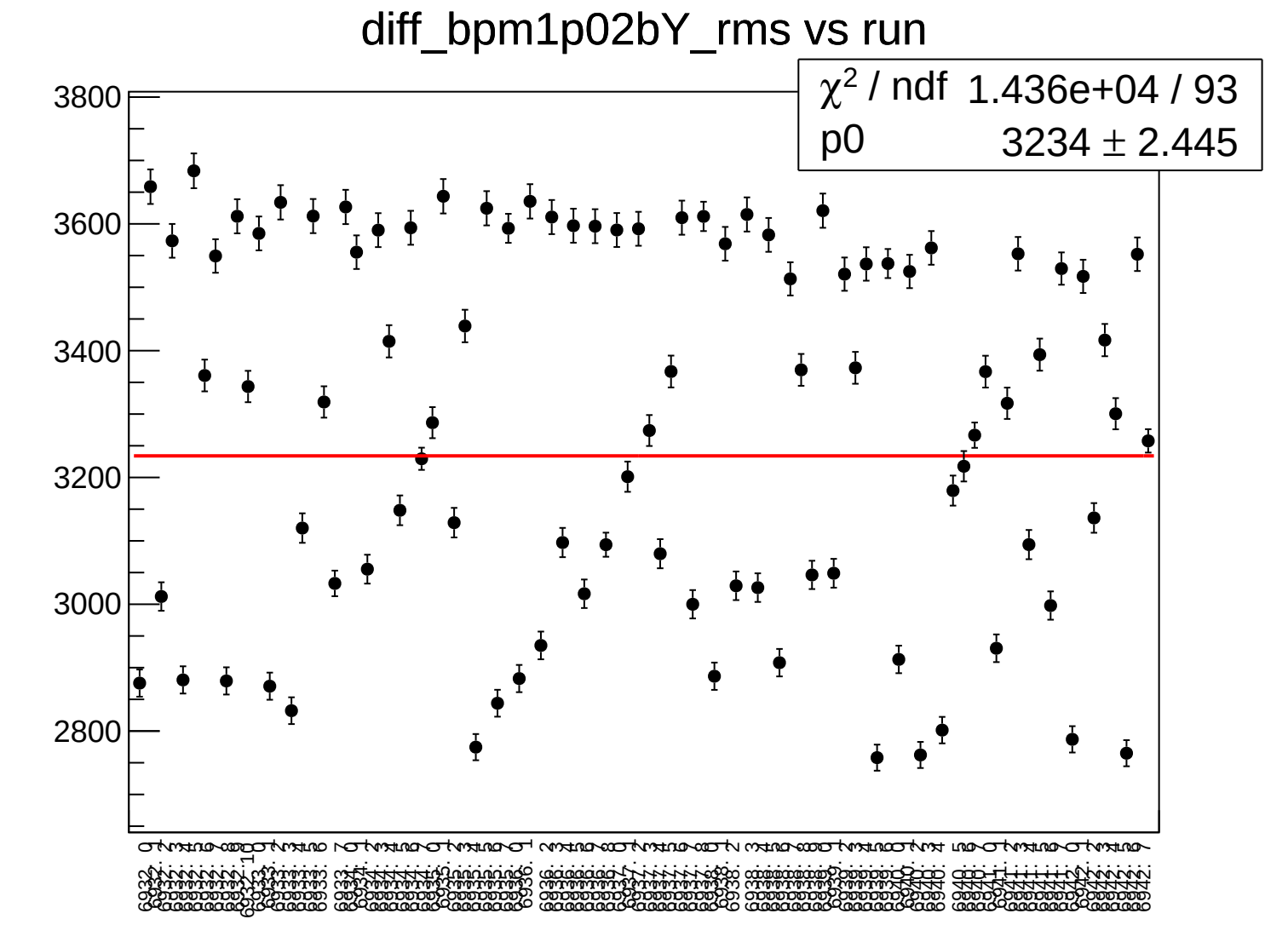

diff_bpm1p02bX_mean vs run
χ² / ndf 76.73 / 93
p0 −0.4278 ± 0.9996
pull
Entries 94
Mean 253
Std Dev 0

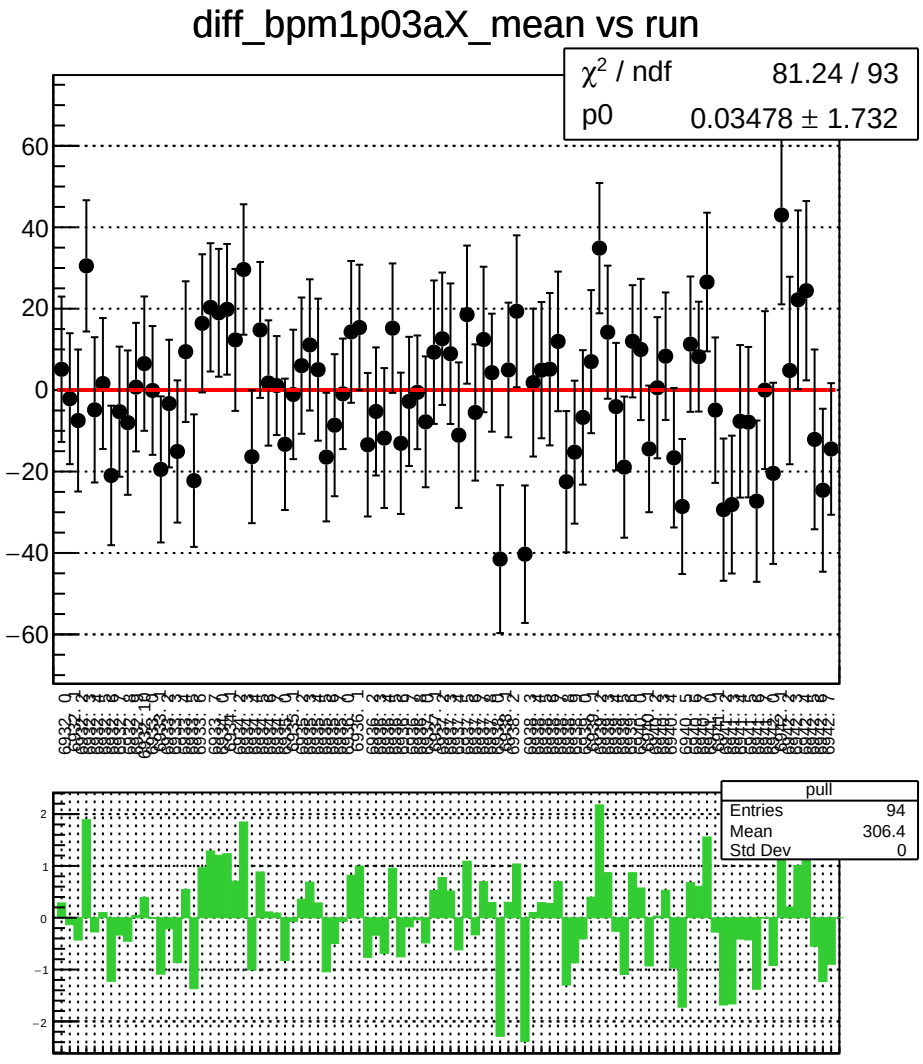

pull1D
Entries 94
Mean −0.01425
Std Dev 0.9034

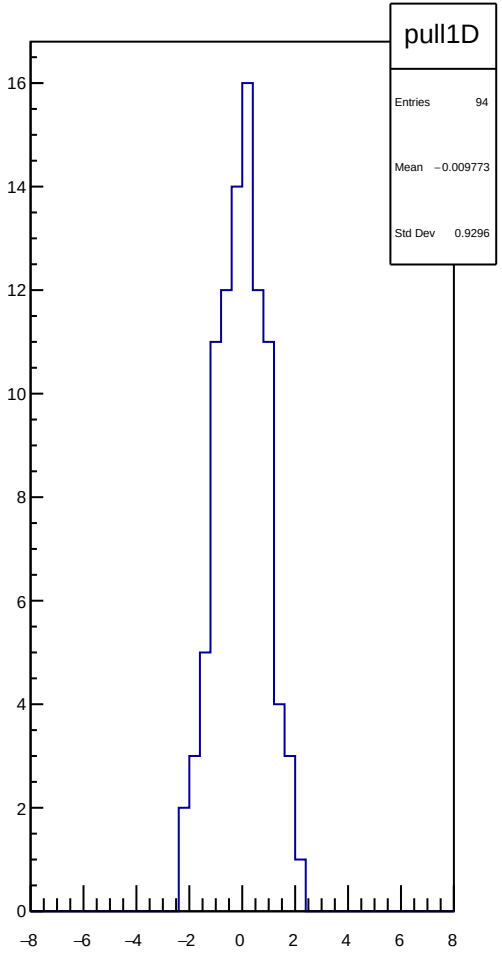

diff_bpm1p02bX_rms vs run
χ² / ndf 2162 / 93
p0 938.2 ± 0.7069
1060
1040
1020
1000
980
960
940
920
900
880

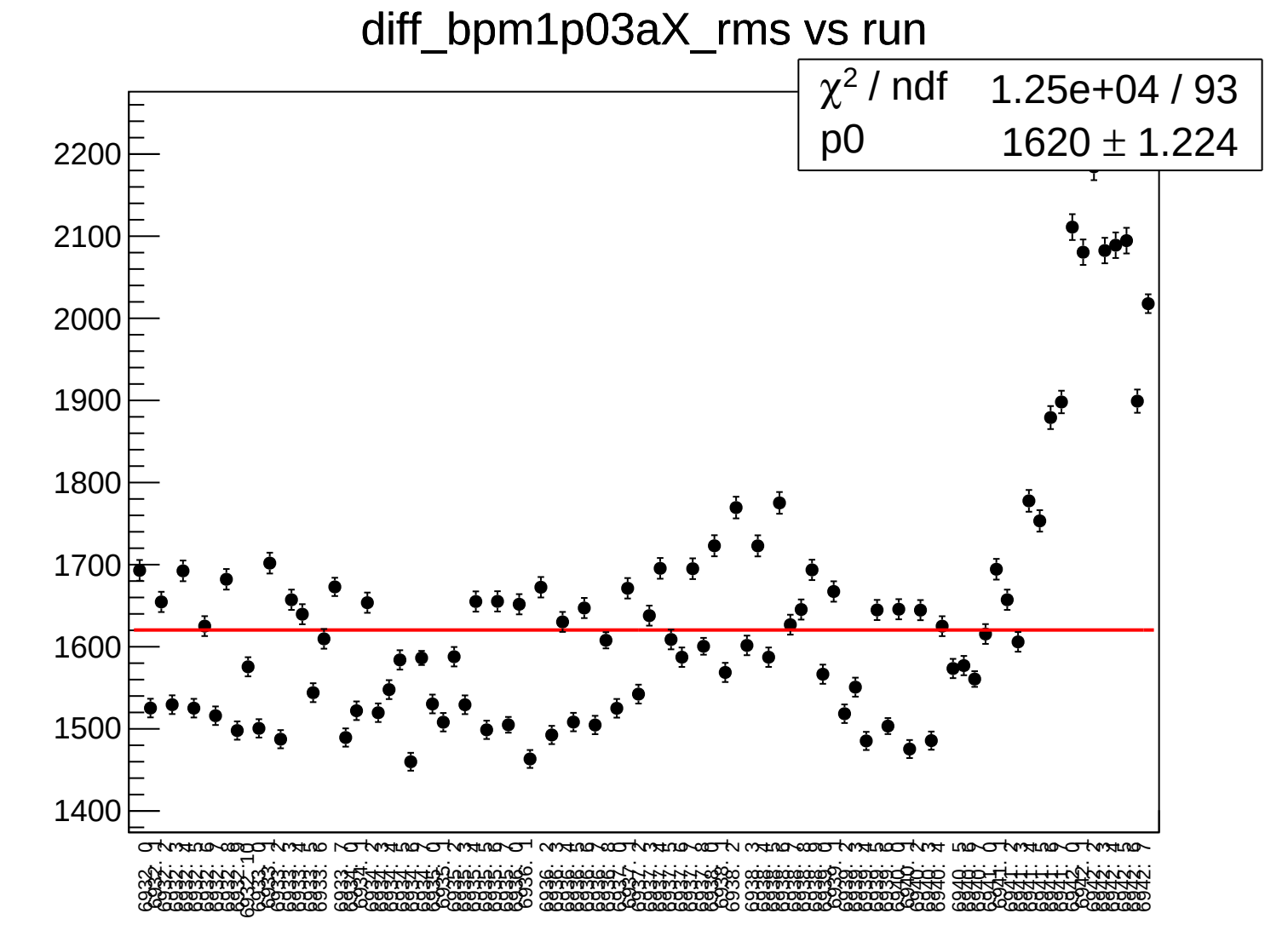

diff_bpm1p02bY_mean vs run
χ² / ndf 90.74 / 93
p0 −1.388 ± 3.458
pull
Entries 94
Mean −217.9
Std Dev 0

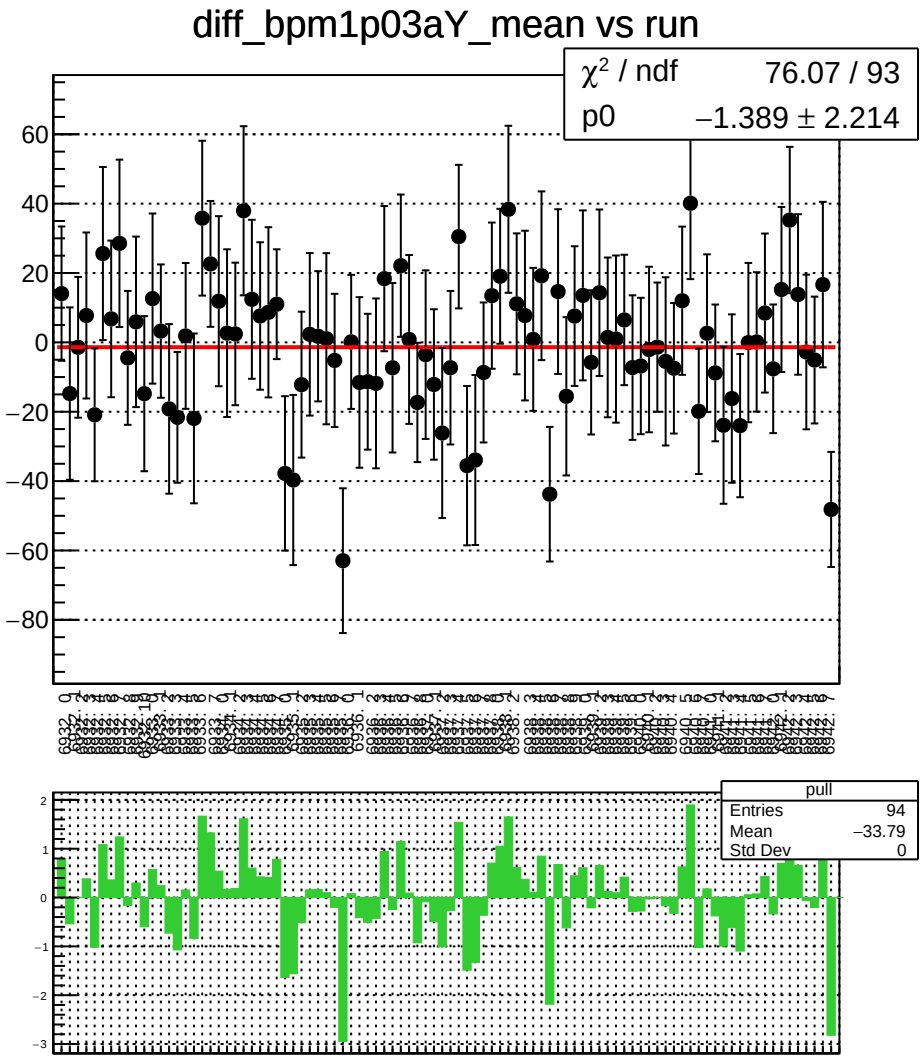

pull1D
Entries 94
Mean 0.008875
Std Dev 0.9825

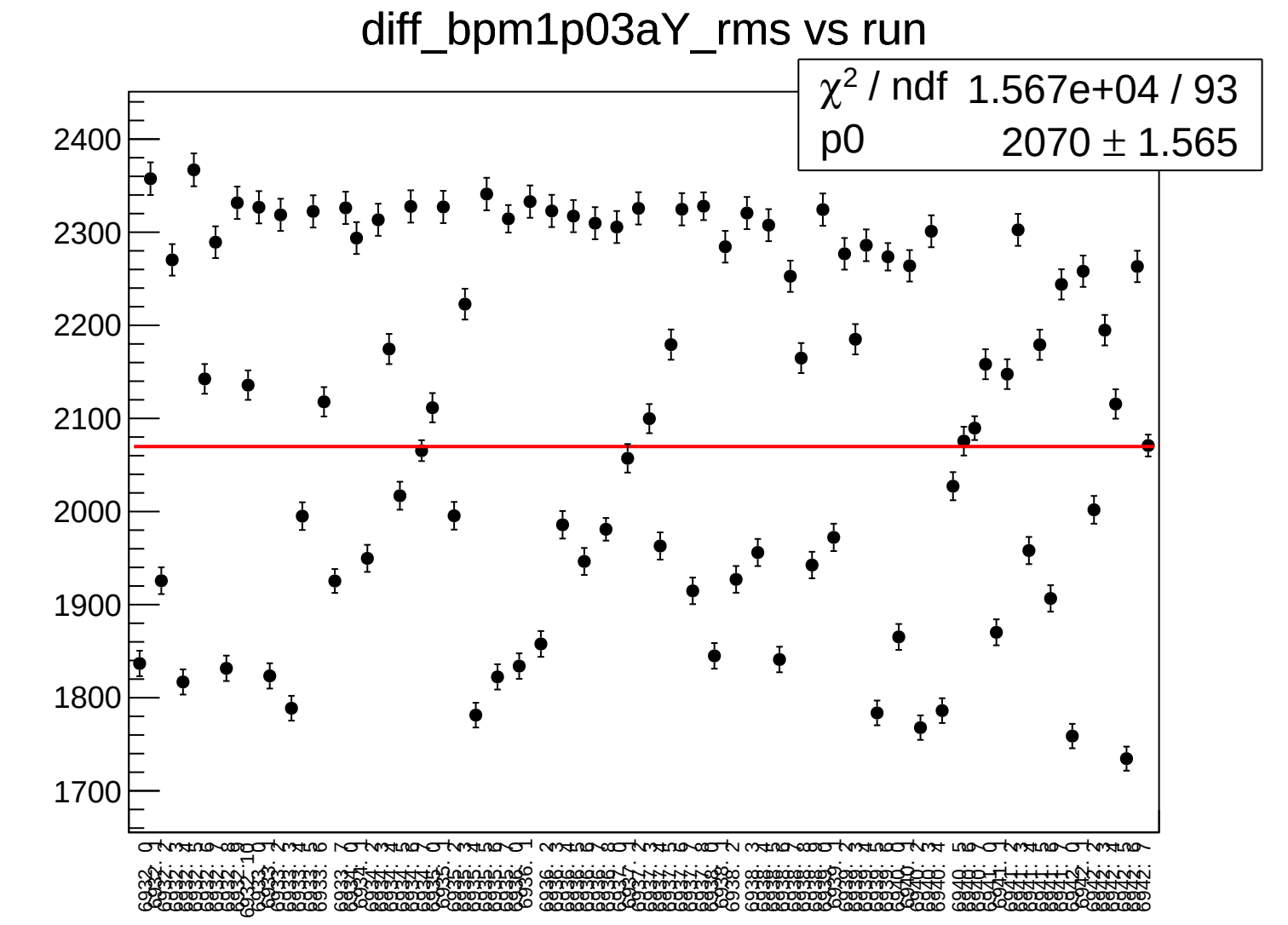

diff_bpm1p02bY_rms vs run
χ² / ndf 1.436e+04 / 93
p0 3234 ± 2.445
3800
3600
3400
3200
3000
2800

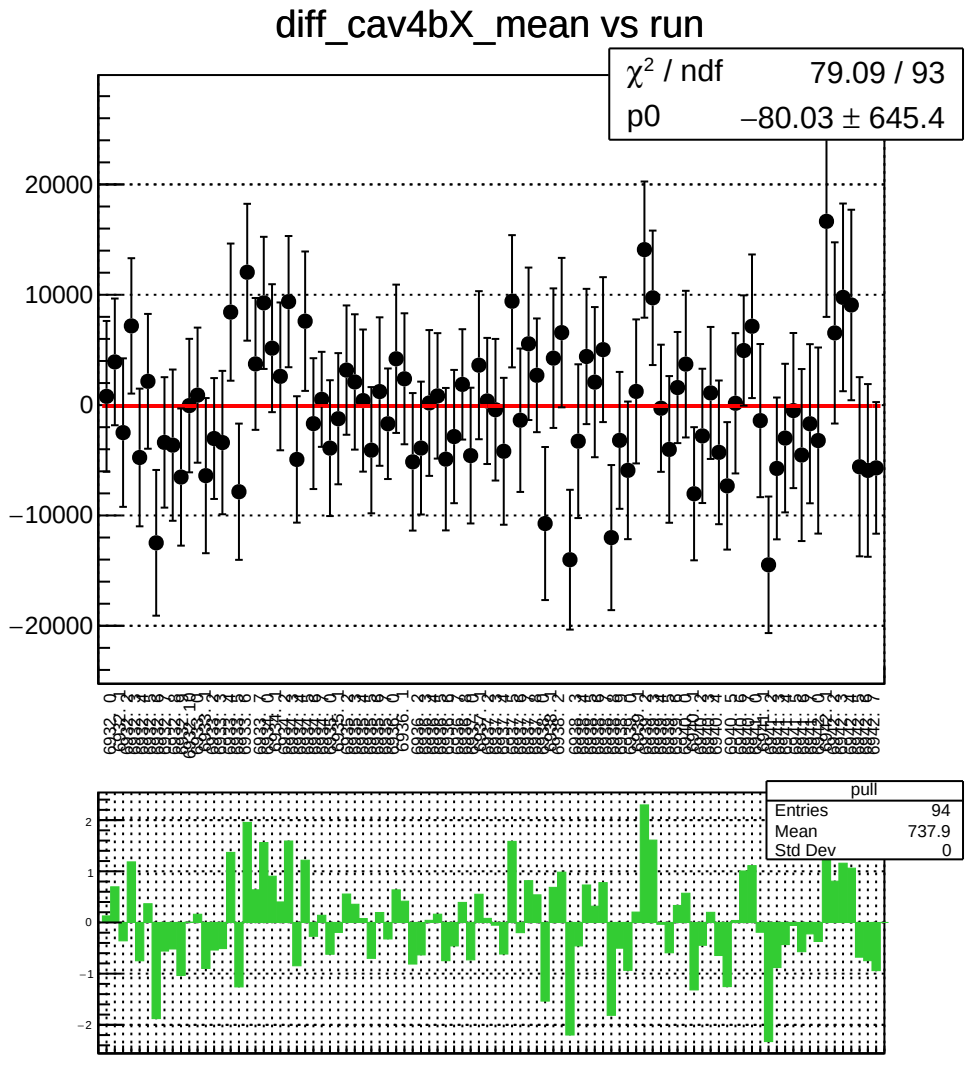

diff_bpm1p03aX_mean vs run
χ² / ndf 81.24 / 93
p0 0.03478 ± 1.732
pull
Entries 94
Mean 306.4
Std Dev 0

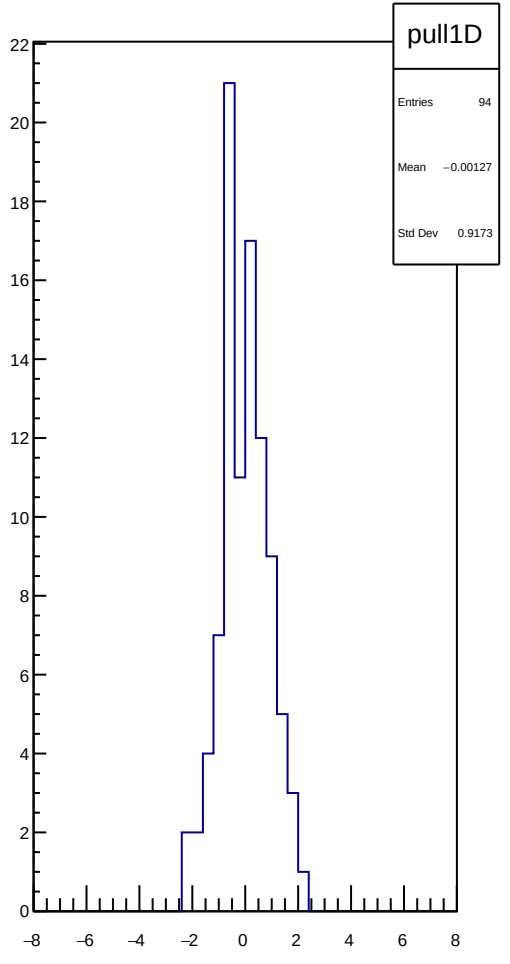

pull1D
Entries 94
Mean −0.009773
Std Dev 0.9296

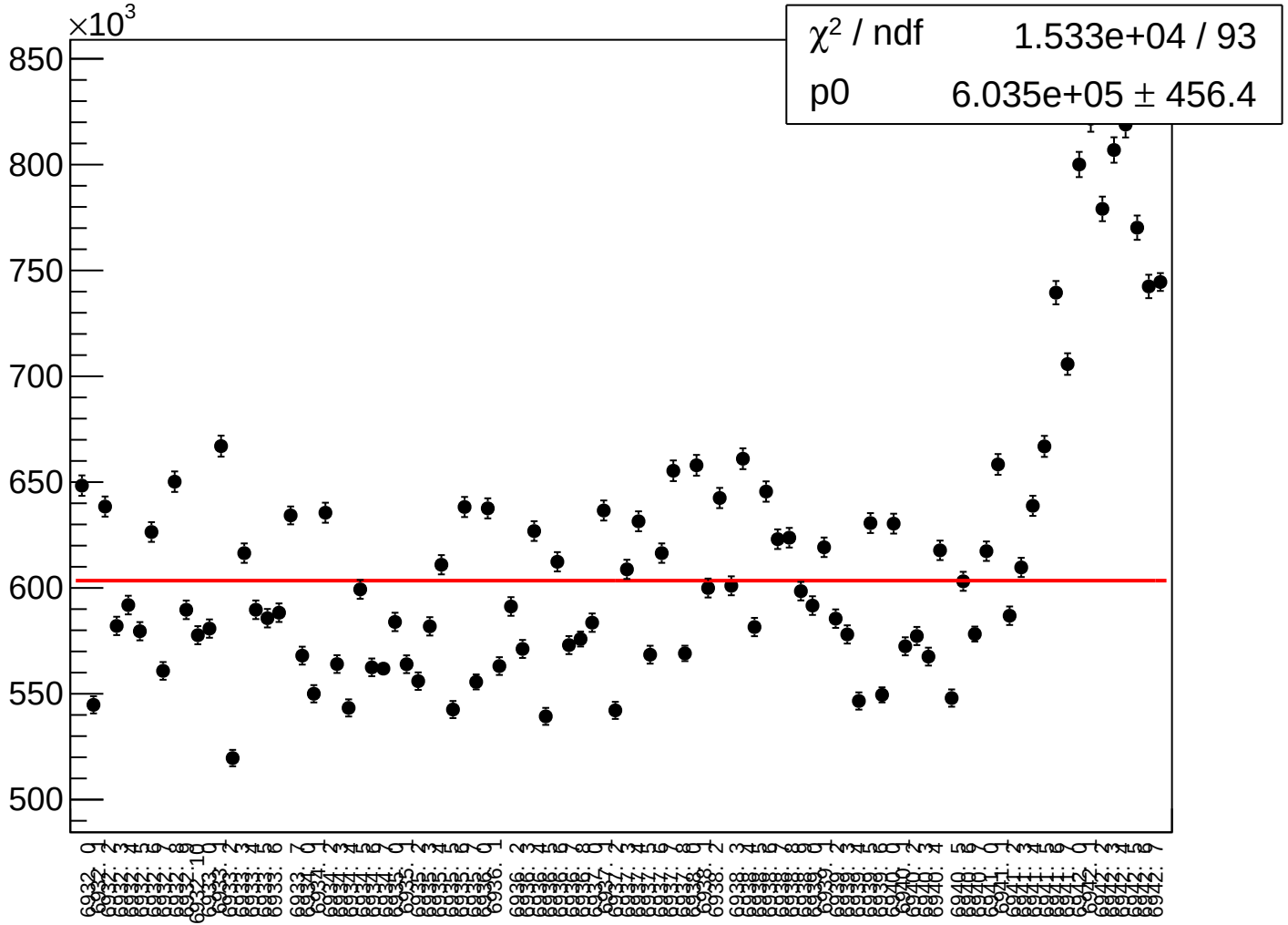

diff_bpm1p03aX_rms vs run
χ² / ndf 1.25e+04 / 93
p0 1620 ± 1.224
2200
2100
2000
1900
1800
1700
1600
1500
1400

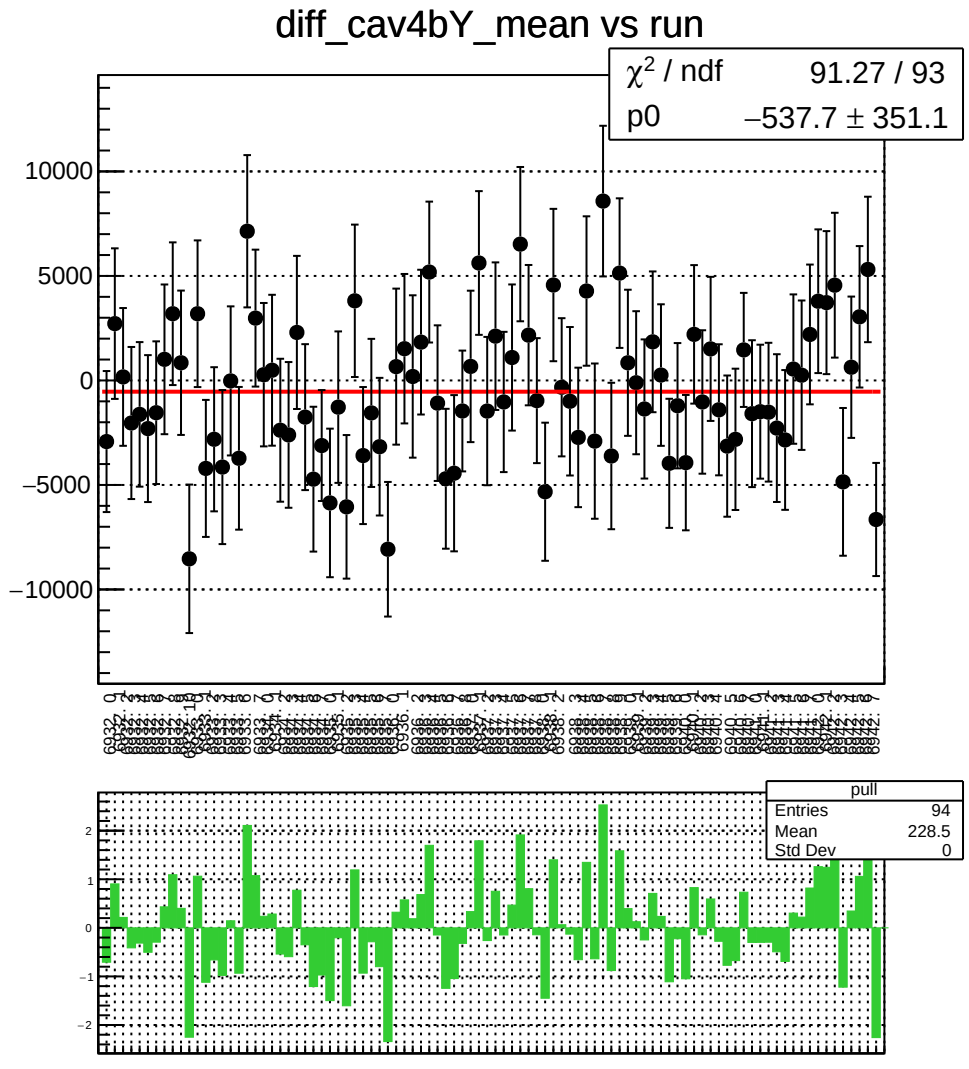

diff_bpm1p03aY_mean vs run
χ² / ndf 76.07 / 93
p0 −1.389 ± 2.214
pull
Entries 94
Mean −33.79
Std Dev 0
pull1D
Entries 94
Mean 0.01681
Std Dev 0.8994

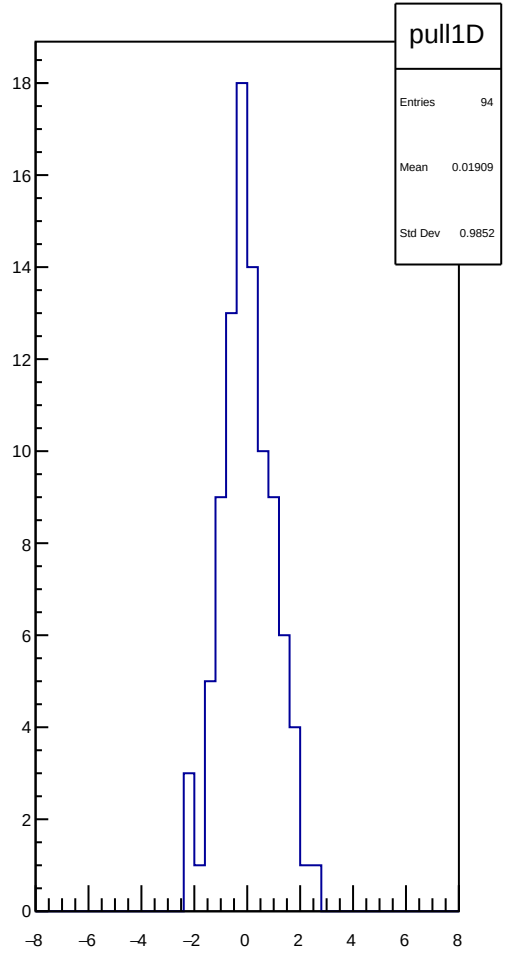

diff_bpm1p03aY_rms vs run
χ² / ndf 1.567e+04 / 93
p0 2070 ± 1.565
2400
2300
2200
2100
2000
1900
1800
1700

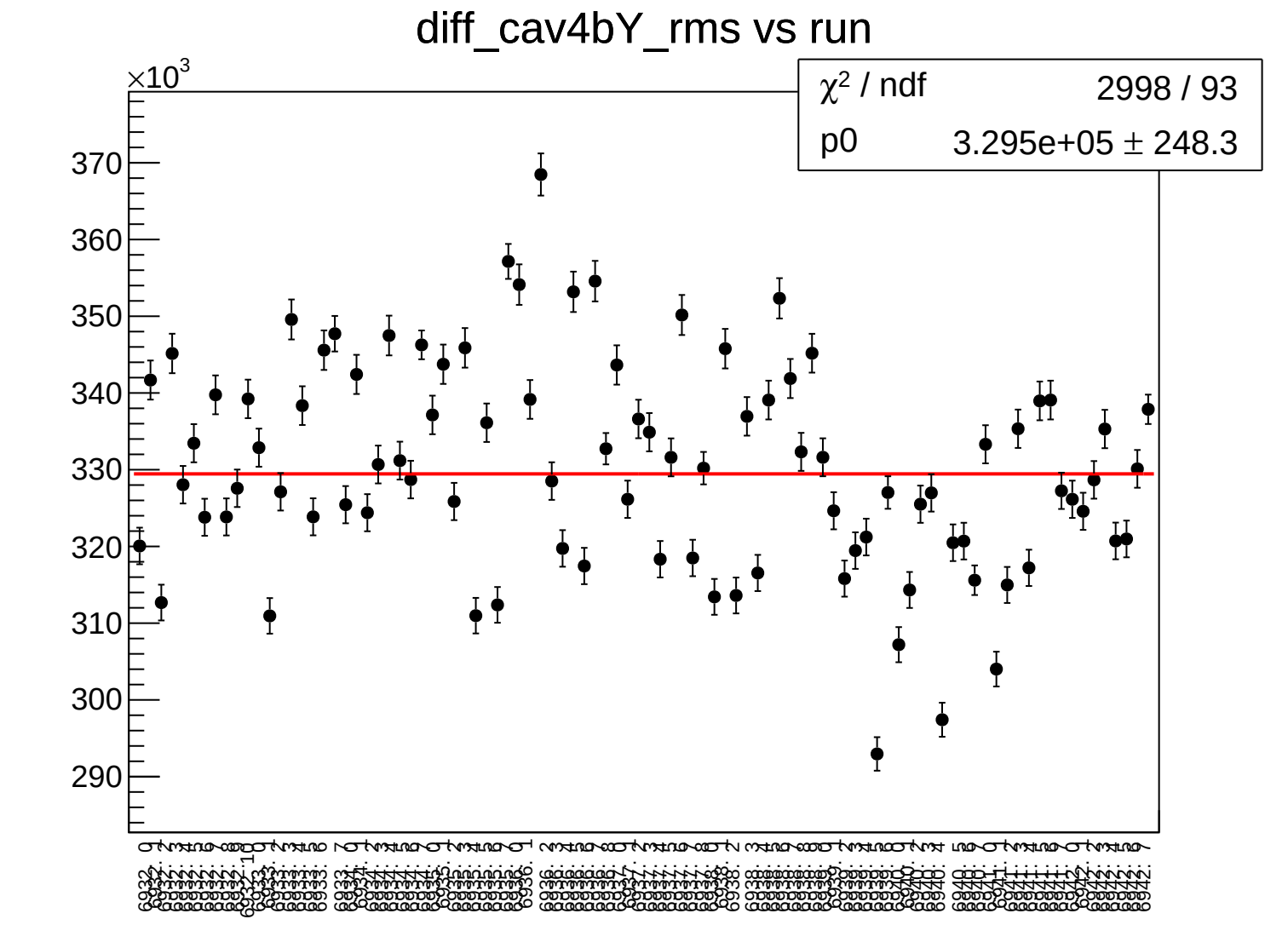

diff_cav4bX_mean vs run
χ² / ndf 79.09 / 93
p0 −80.03 ± 645.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 737.9
Std Dev 0
2
1
0
−1
−2

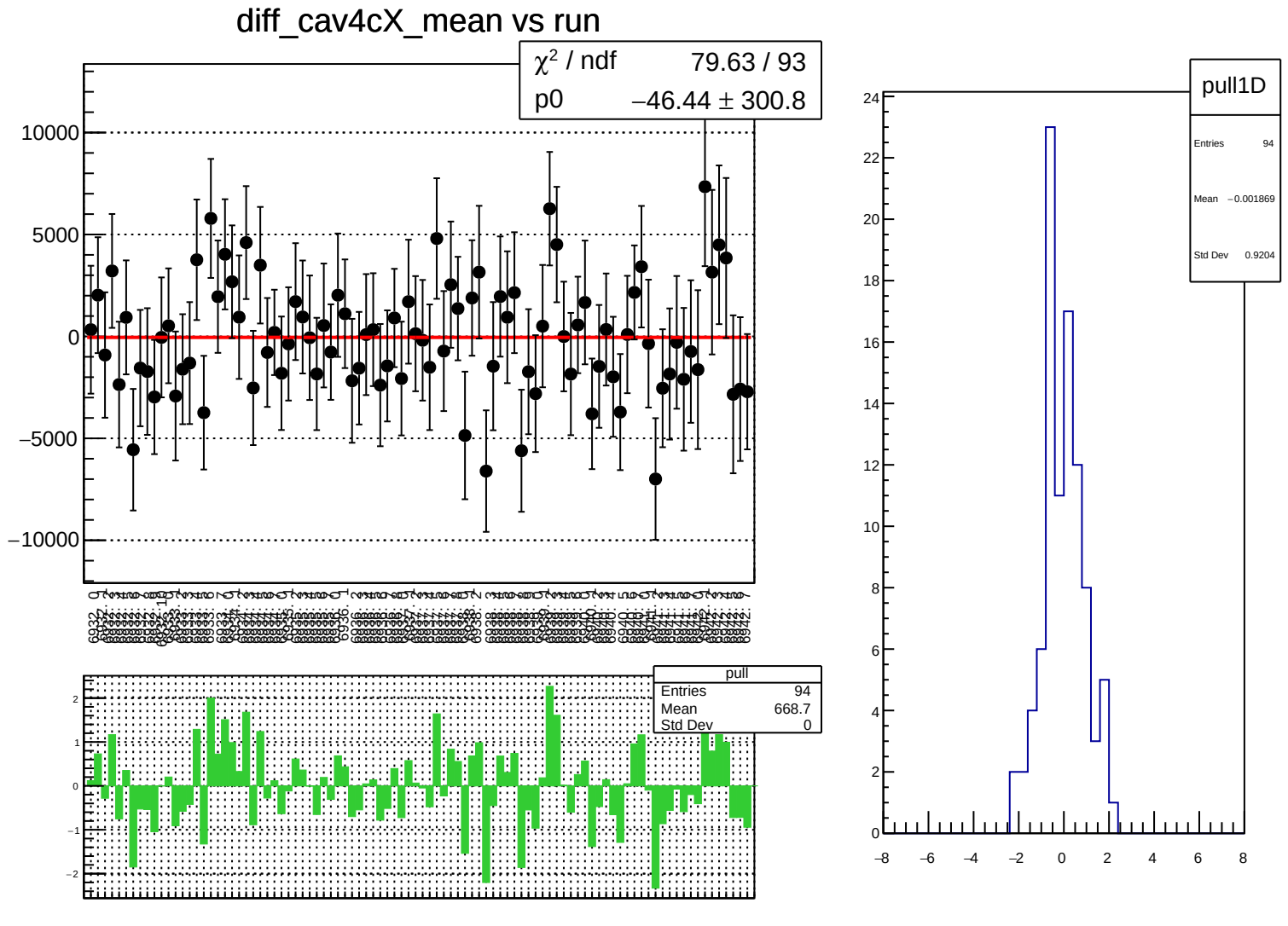

pull1D
Entries 94
Mean −0.00127
Std Dev 0.9173
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

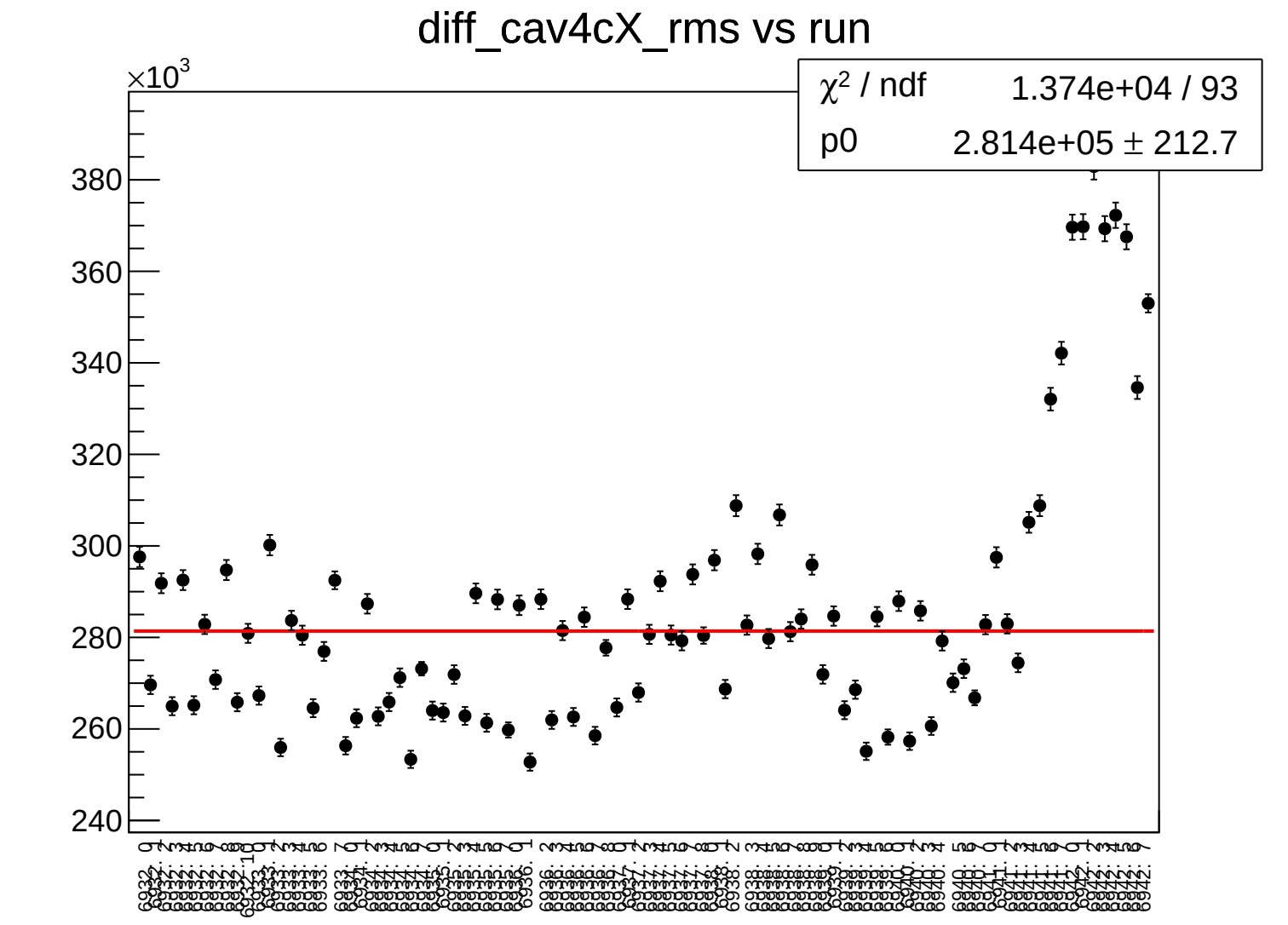

diff_cav4bX_rms vs run
×10^3
χ² / ndf 1.533e+04 / 93
p0 6.035e+05 ± 456.4
850
800
750
700
650
600
550
500

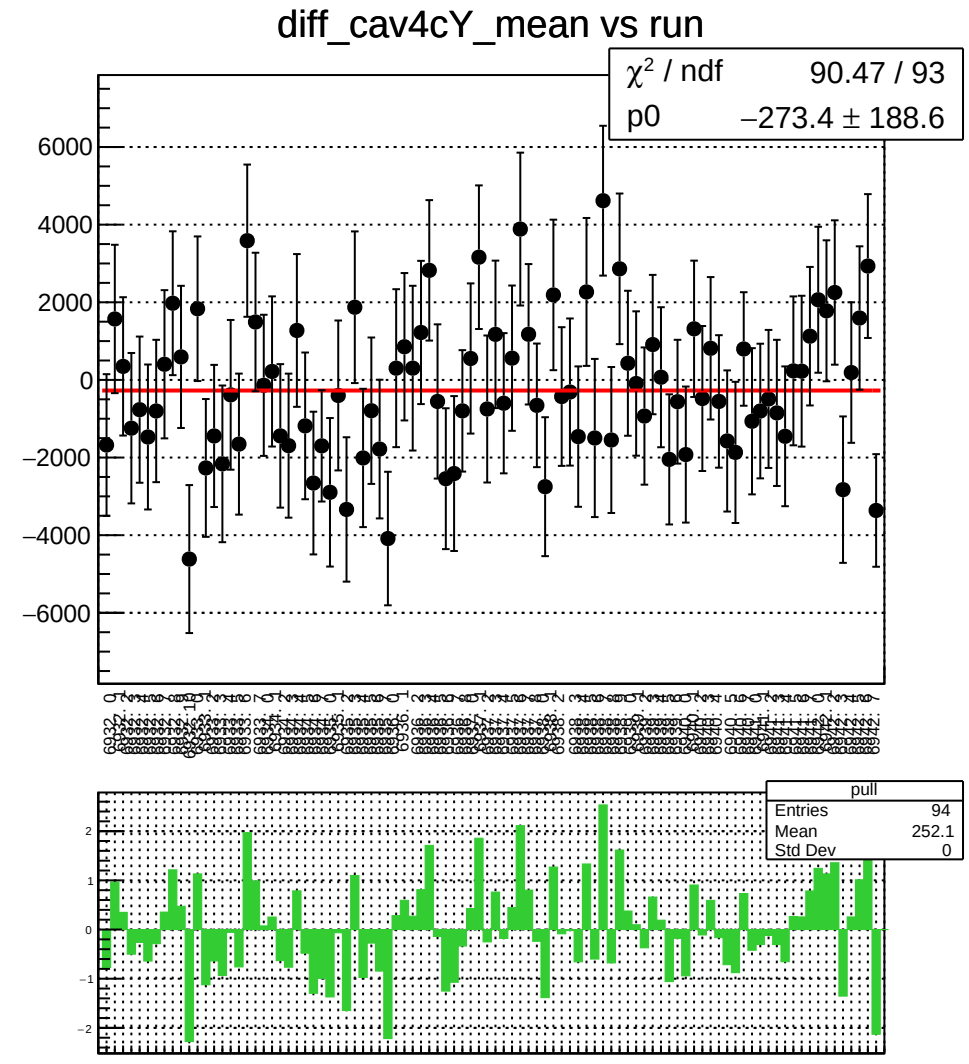

diff_cav4bY_mean vs run
χ^2 / ndf 91.27 / 93
p0 −537.7 ± 351.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 228.5
Std Dev 0
2
1
0
−1
−2

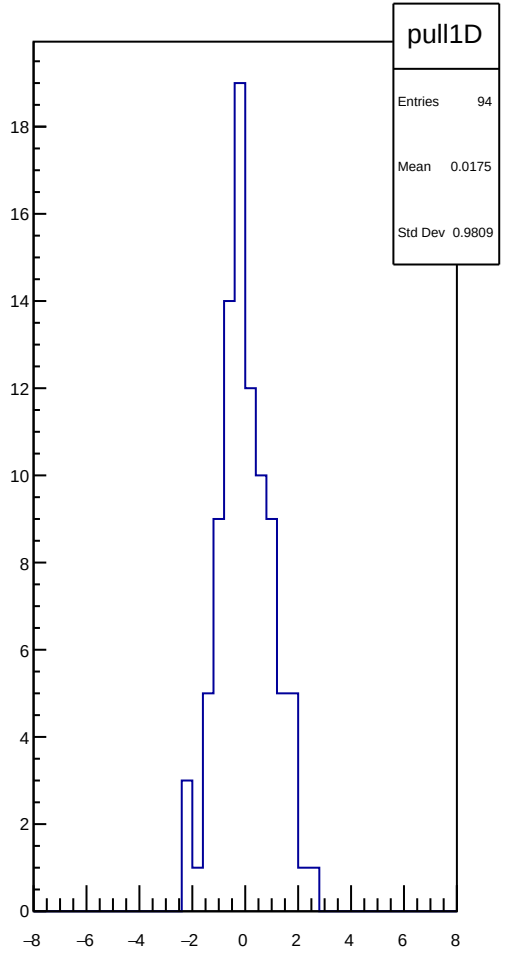

pull1D
Entries 94
Mean 0.01909
Std Dev 0.9852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

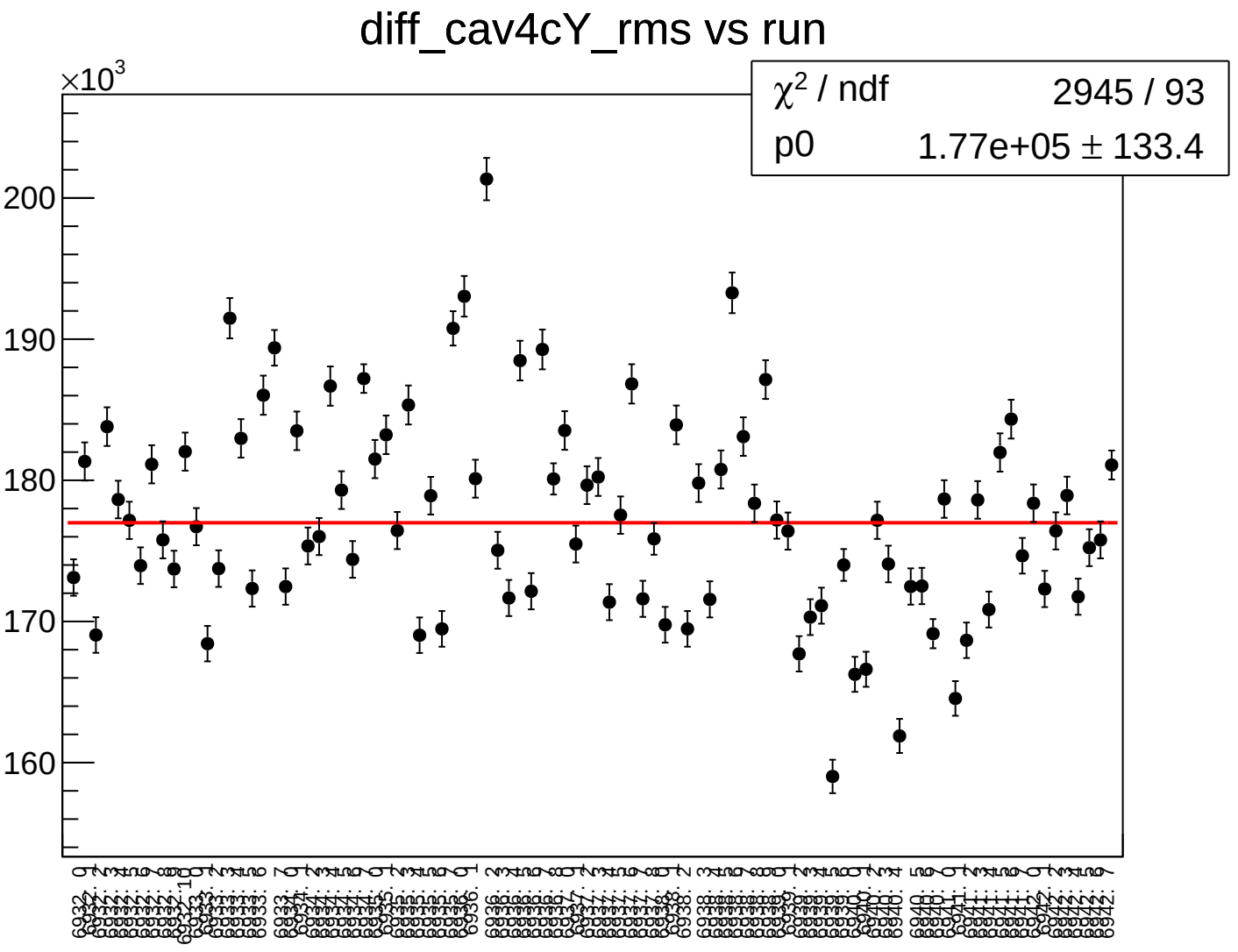

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2998 / 93
p0 3.295e+05 ± 248.3
370
360
350
340
330
320
310
300
290

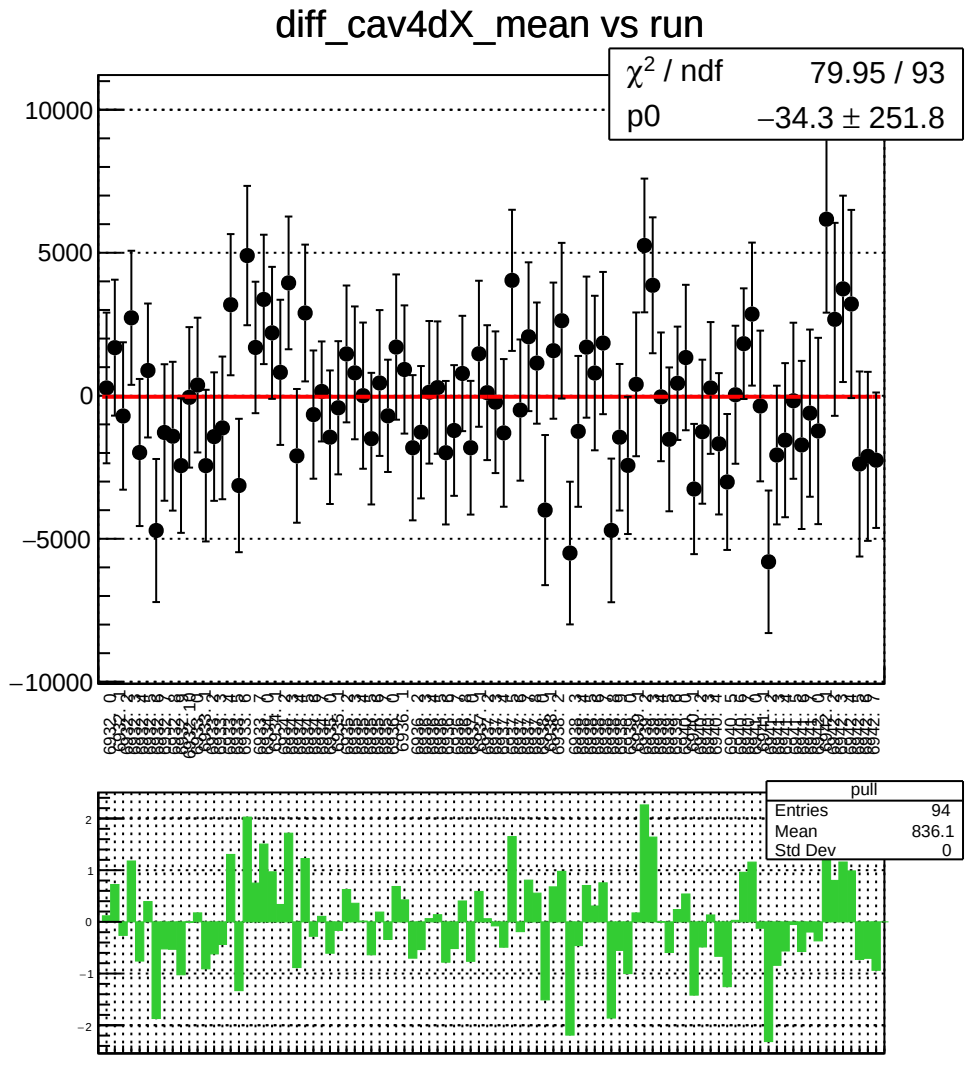

diff_cav4cX_mean vs run
χ² / ndf 79.63 / 93
p0 −46.44 ± 300.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 668.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001869
Std Dev 0.9204
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

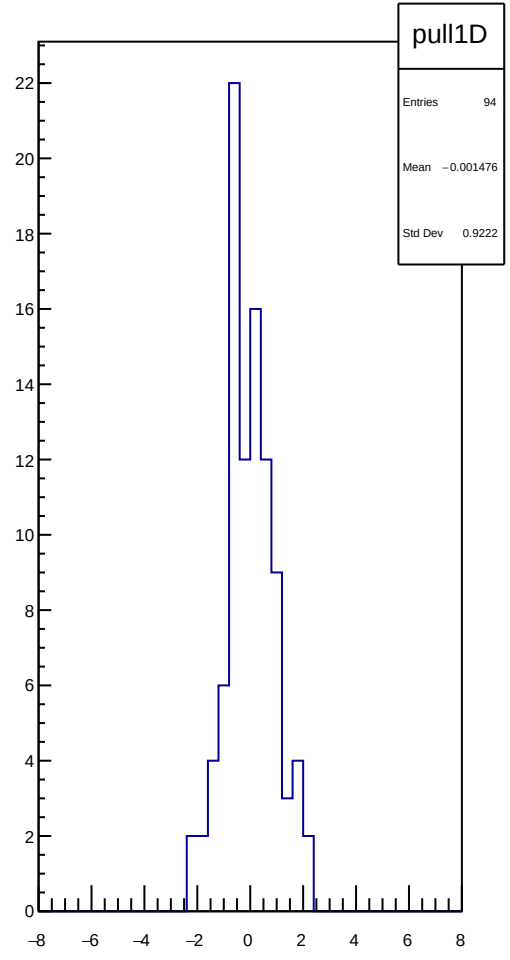

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.374e+04 / 93
p0 2.814e+05 ± 212.7
380
360
340
320
300
280
260
240

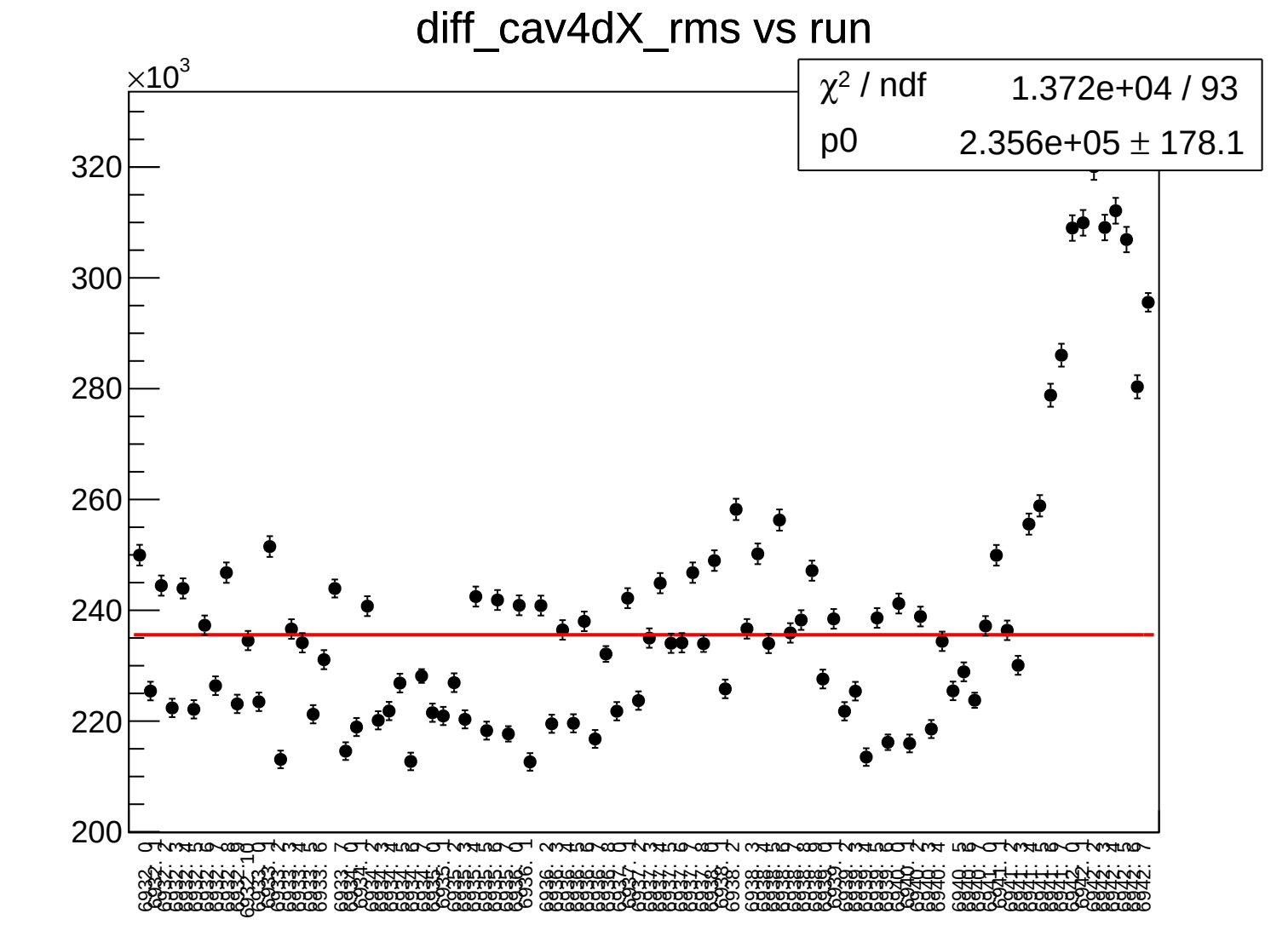

diff_cav4cY_mean vs run
χ² / ndf 90.47 / 93
p0 −273.4 ± 188.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 252.1
Std Dev 0
2
1
0
−1
−2

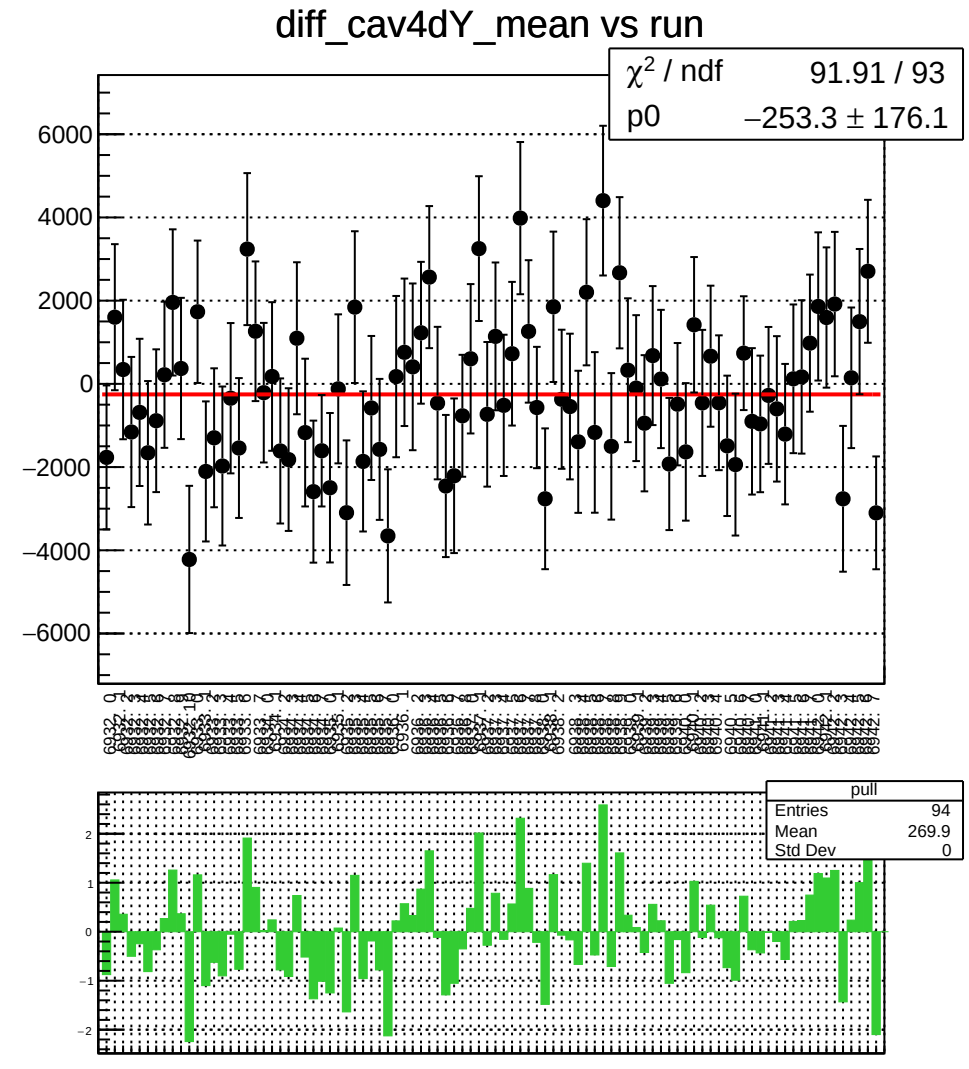

pull1D
Entries 94
Mean 0.0175
Std Dev 0.9809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

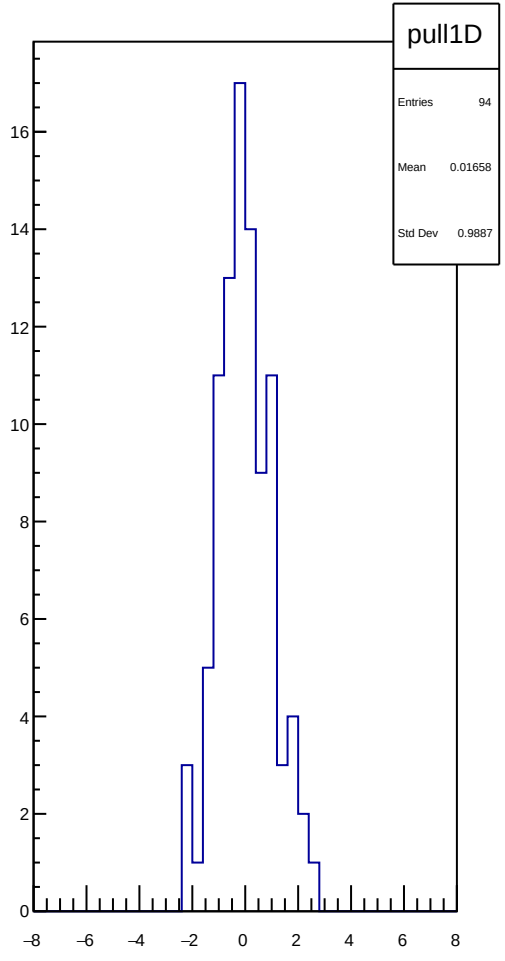

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 2945 / 93
p0 1.77e+05 ± 133.4
200
190
180
170
160

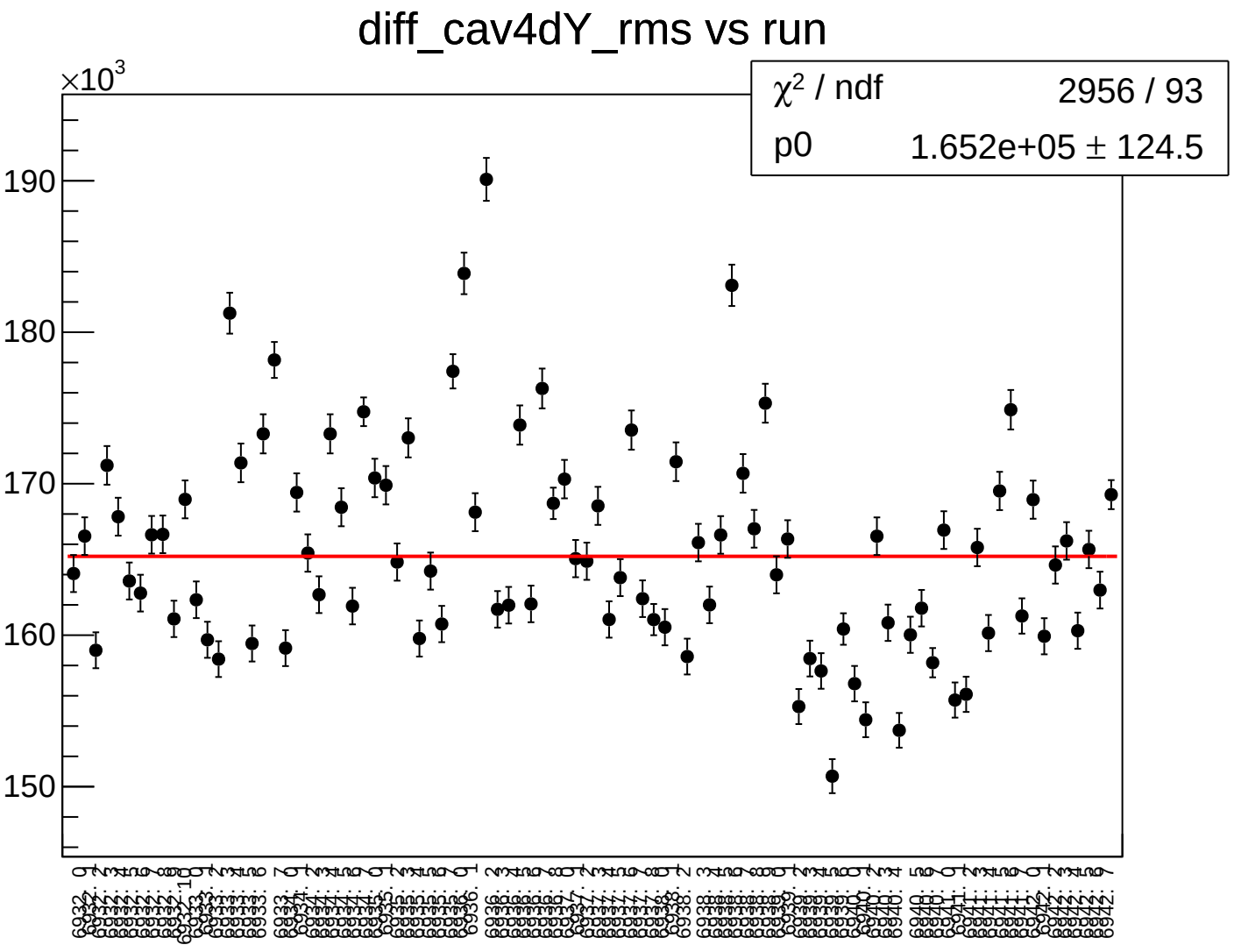

diff_cav4dX_mean vs run
χ² / ndf 79.95 / 93
p0 −34.3 ± 251.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 836.1
Std Dev 0
2
1
0
−1
−2

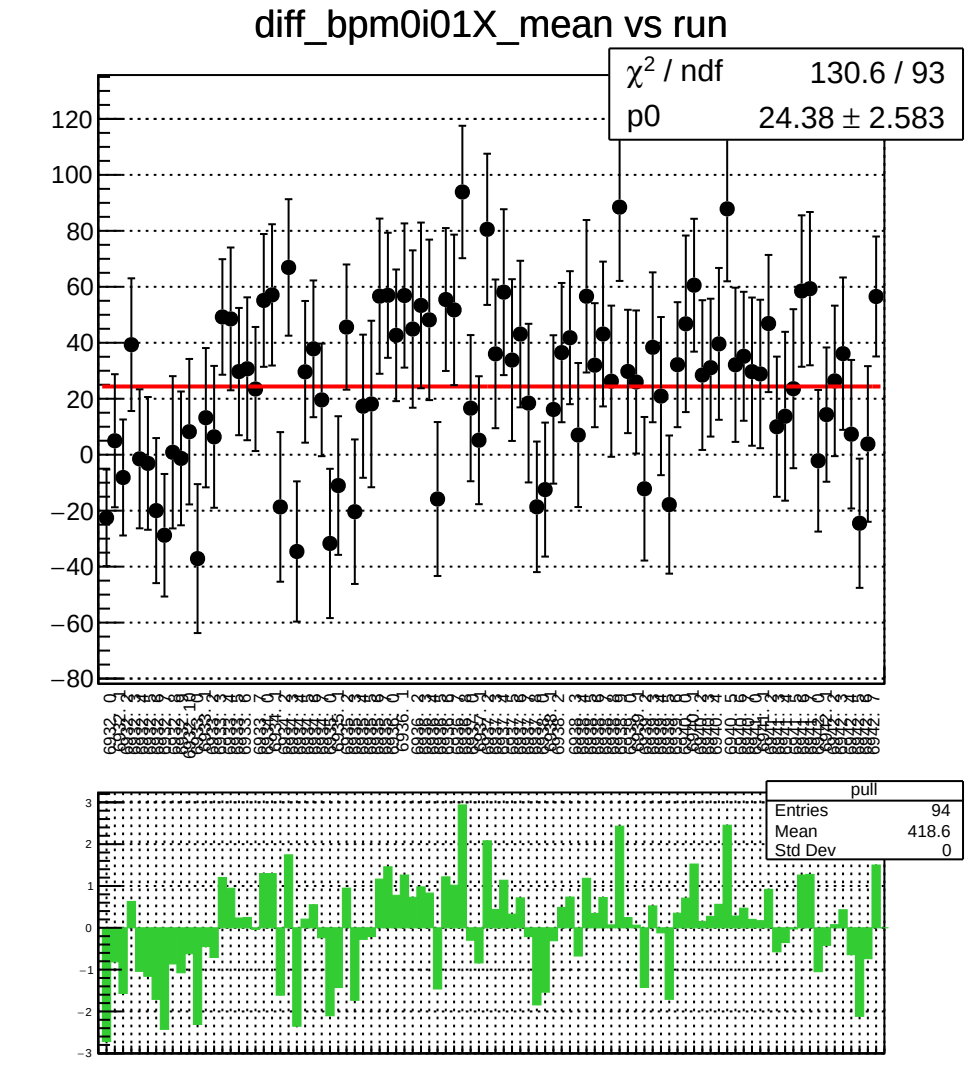

pull1D
Entries 94
Mean −0.001476
Std Dev 0.9222
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

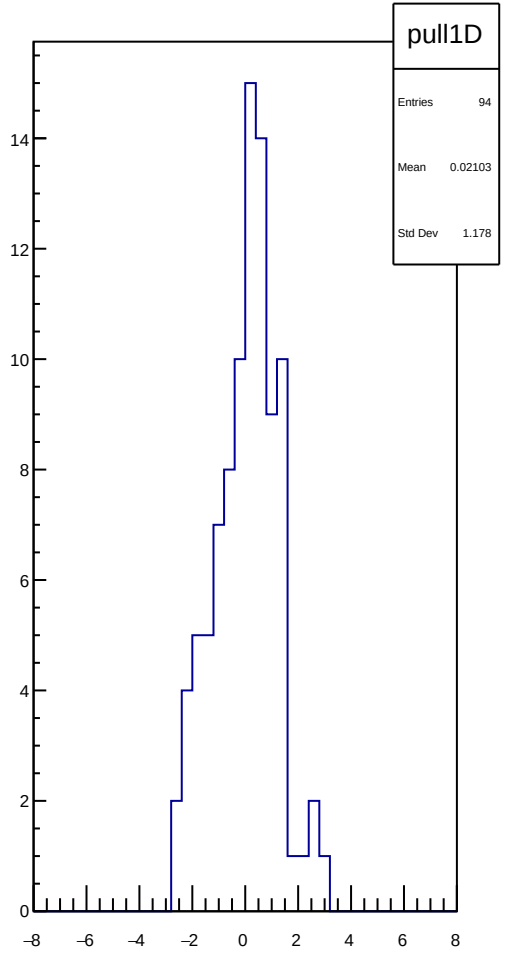

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.372e+04 / 93
p0 2.356e+05 ± 178.1
320
300
280
260
240
220
200

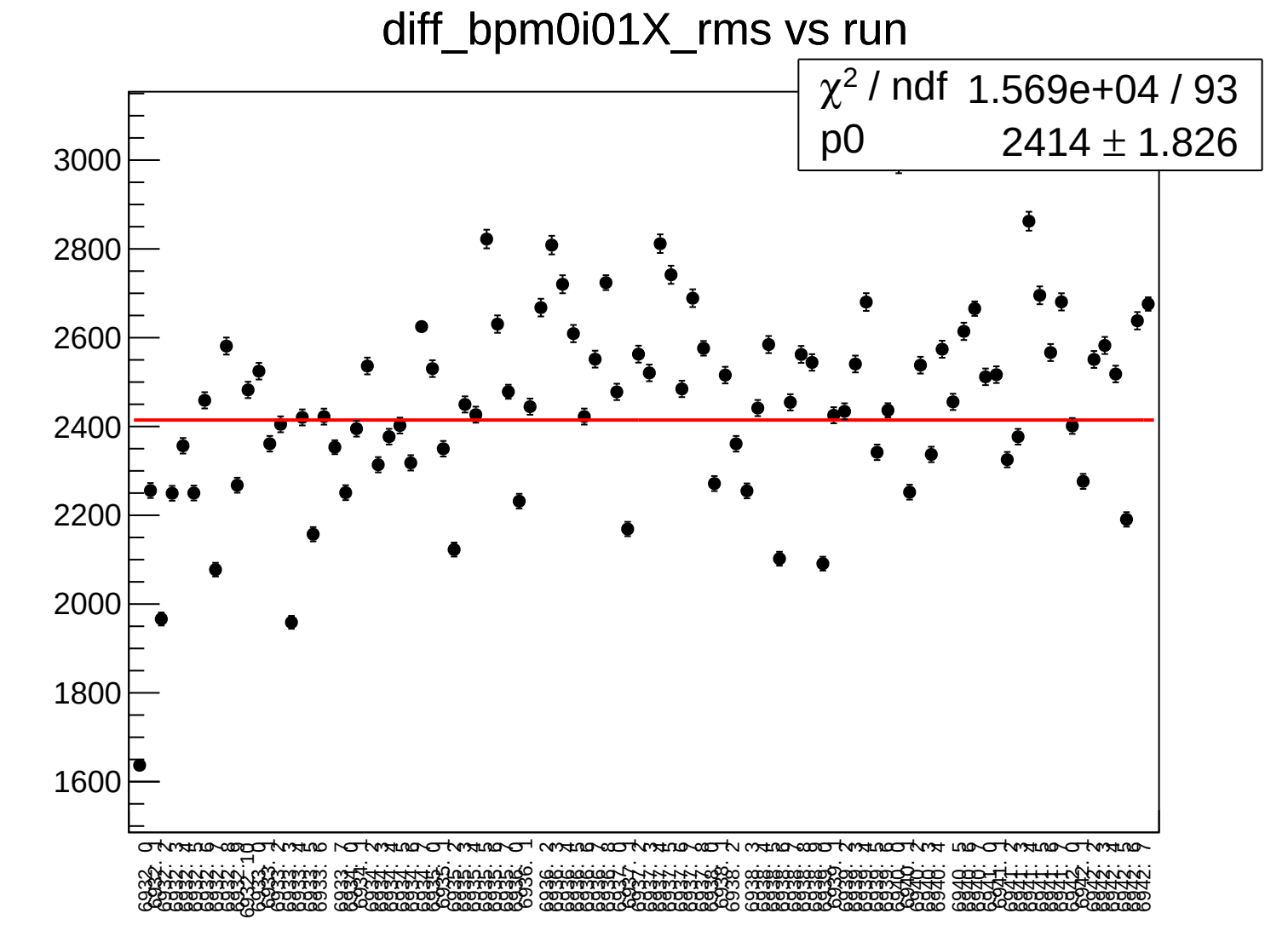

diff_cav4dY_mean vs run
χ^2 / ndf 91.91 / 93
p0 −253.3 ± 176.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 269.9
Std Dev 0
2
1
0
−1
−2

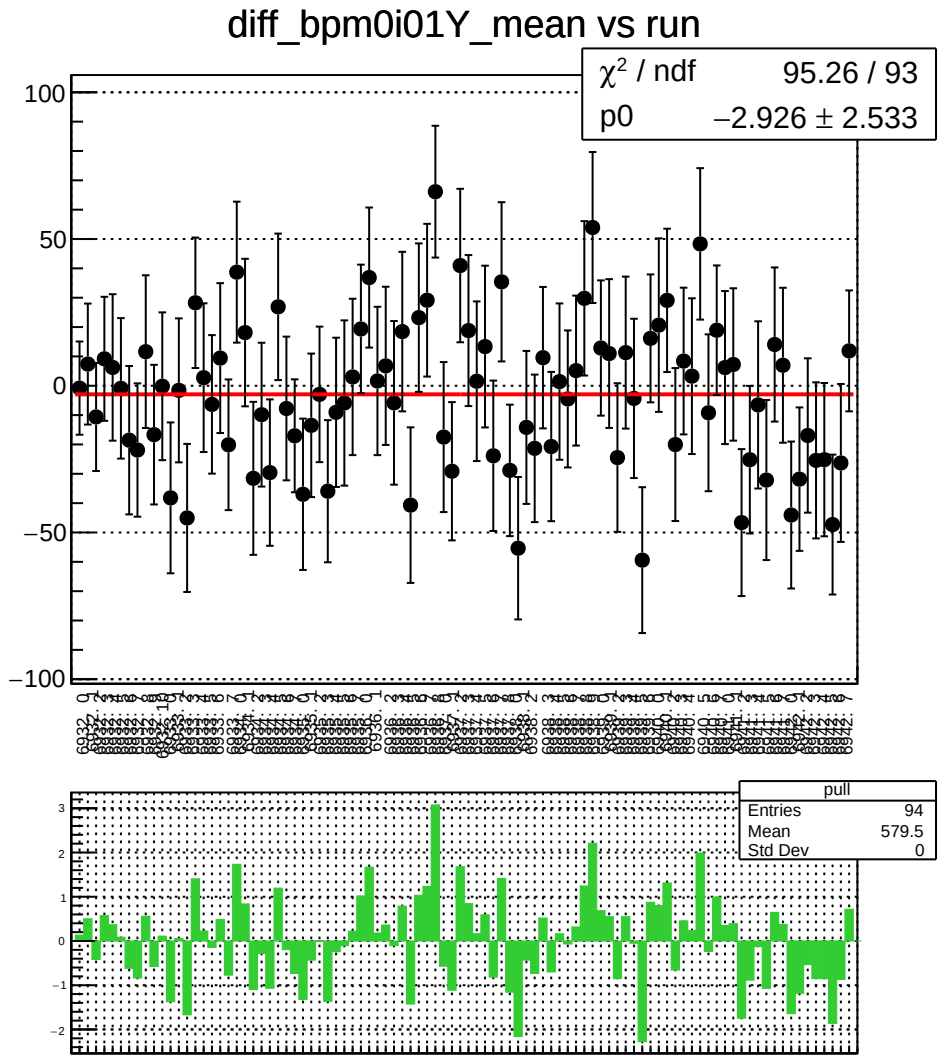

pull1D
Entries 94
Mean 0.01658
Std Dev 0.9887
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

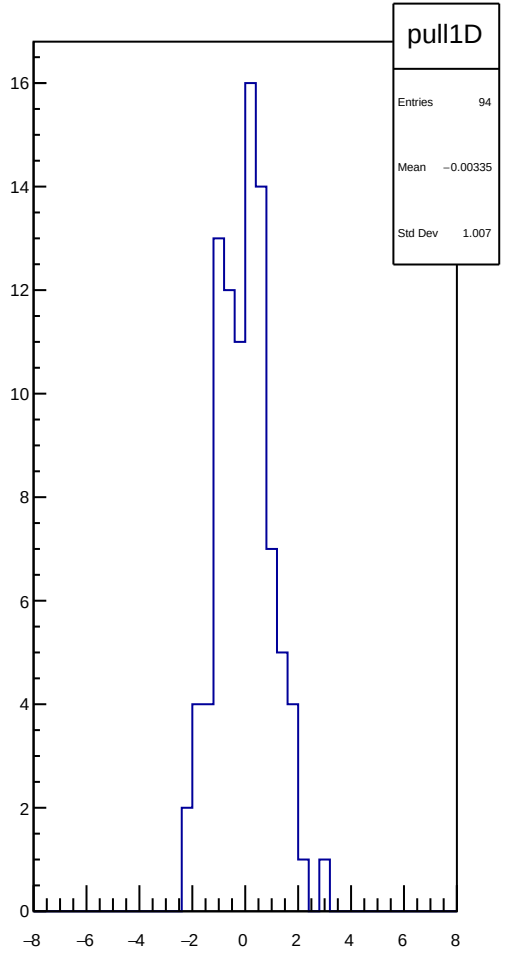

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2956 / 93
p0 1.652e+05 ± 124.5
190
180
170
160
150

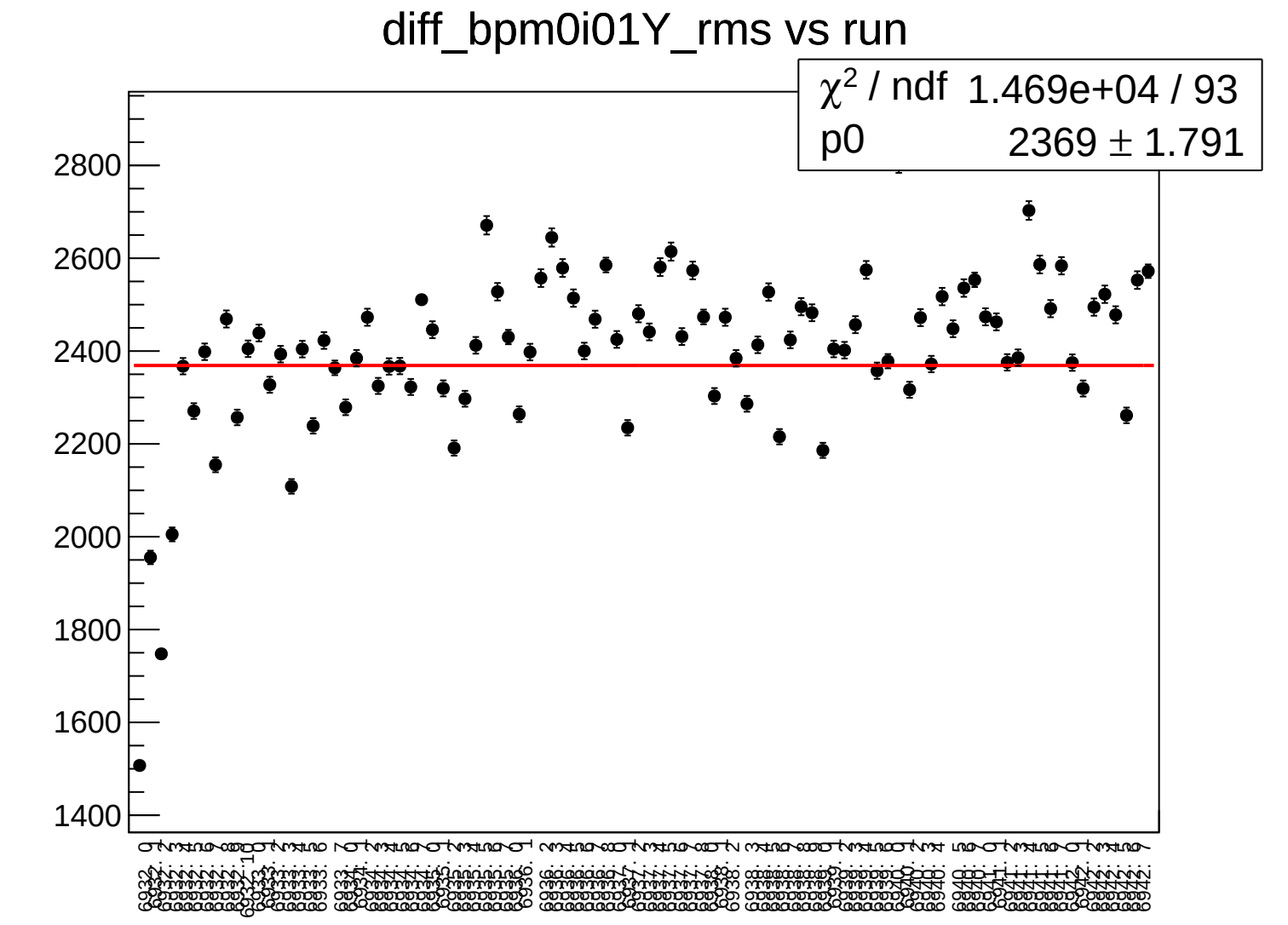

diff_bpm0i01X_mean vs run
χ^2 / ndf 130.6 / 93
p0 24.38 ± 2.583
pull
Entries 94
Mean 418.6
Std Dev 0

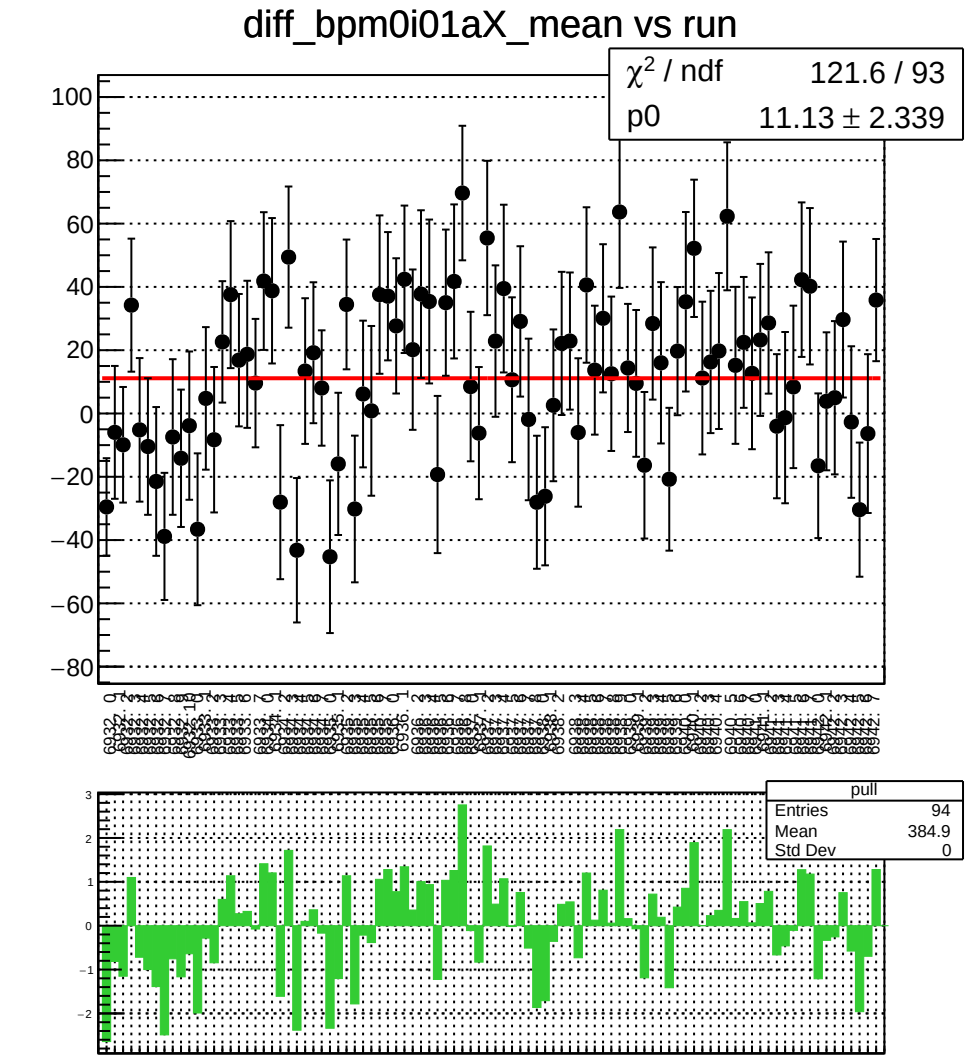

pull1D
Entries 94
Mean 0.02103
Std Dev 1.178

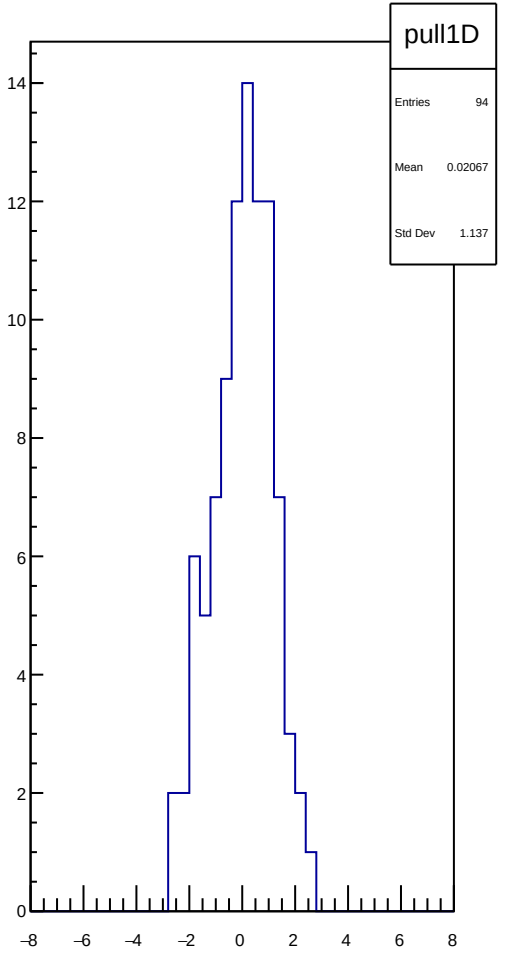

diff_bpm0i01X_rms vs run
χ² / ndf 1.569e+04 / 93
p0 2414 ± 1.826
3000
2800
2600
2400
2200
2000
1800
1600

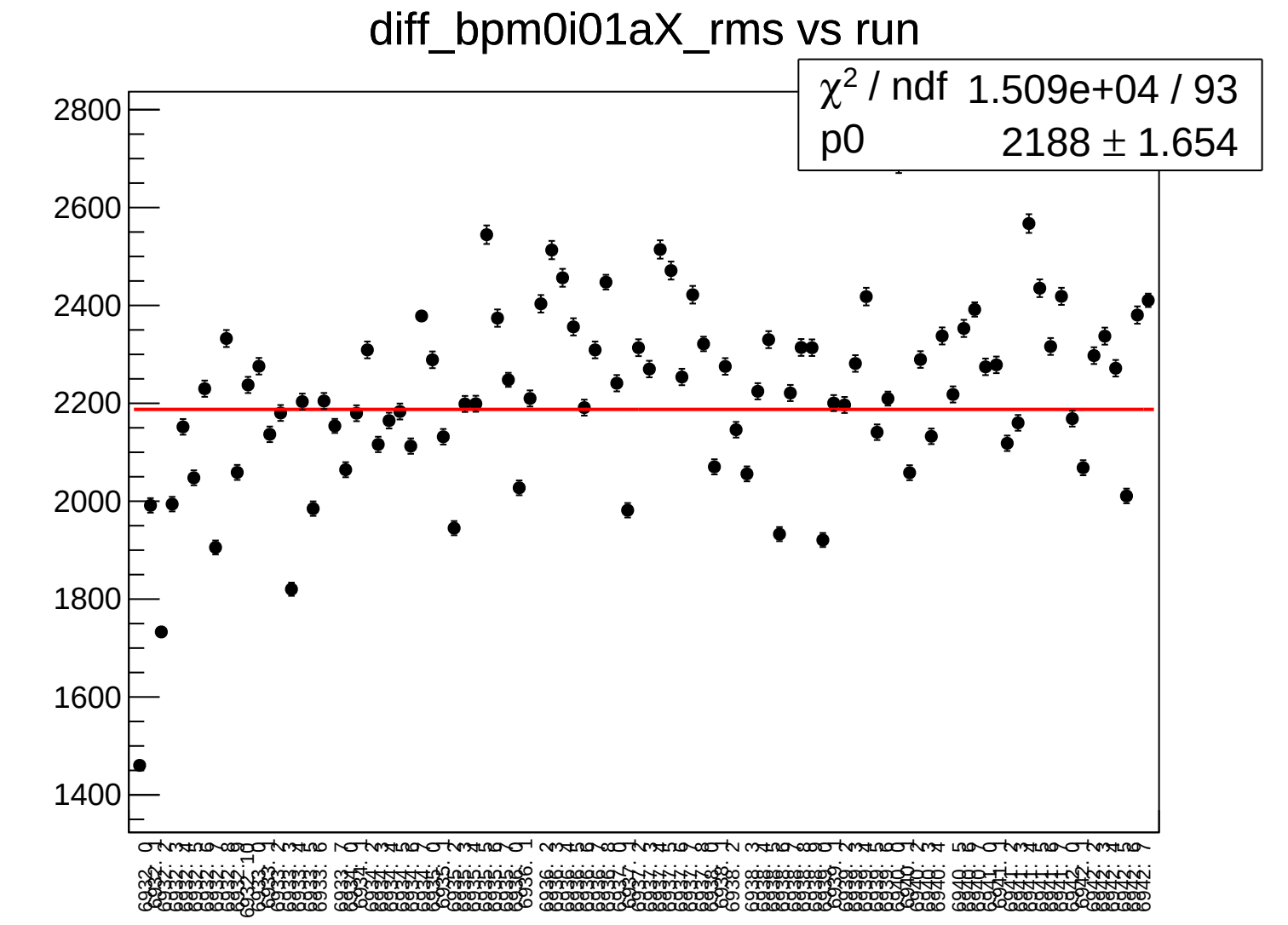

diff_bpm0i01Y_mean vs run
χ² / ndf 95.26 / 93
p0 −2.926 ± 2.533
100
50
0
−50
−100
pull
Entries 94
Mean 579.5
Std Dev 0
3
2
1
0
−1
−2

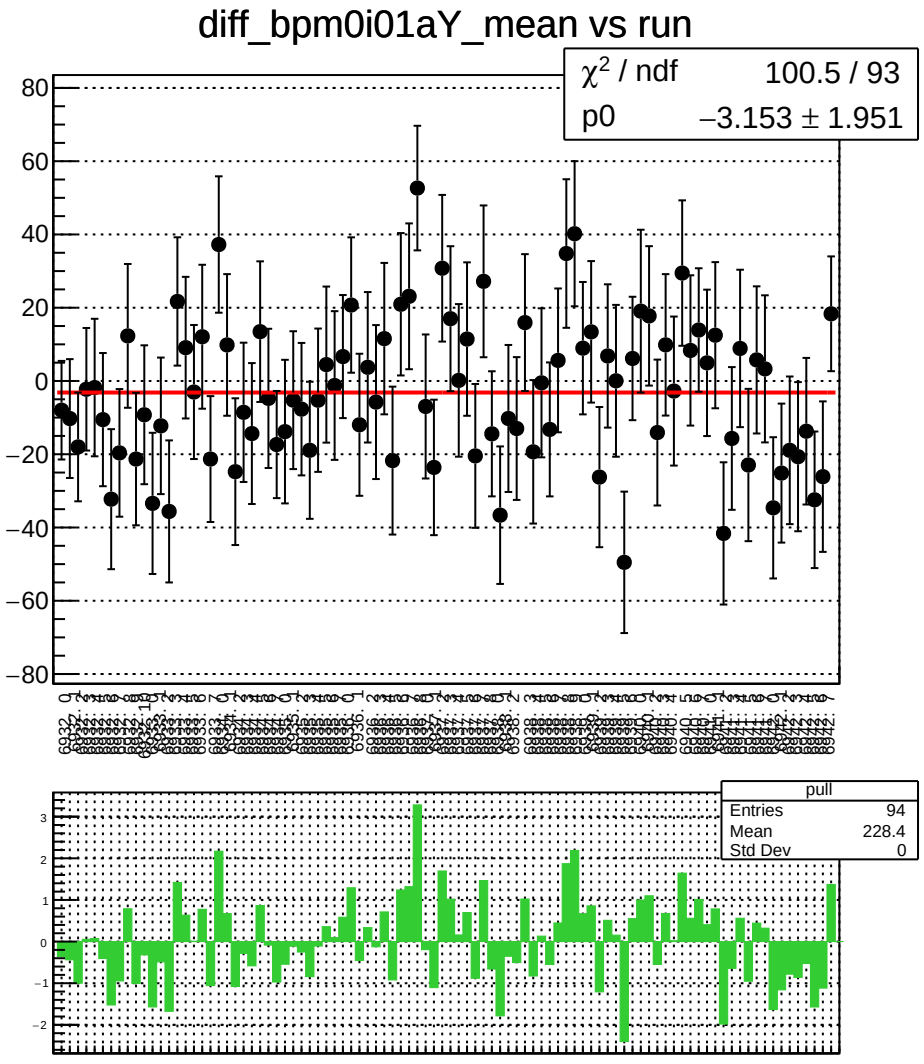

pull1D
Entries 94
Mean −0.00335
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

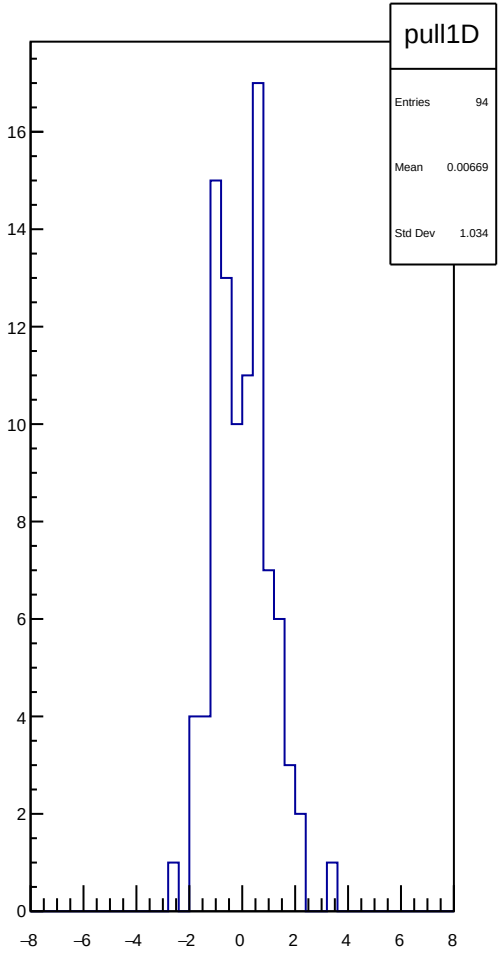

diff_bpm0i01Y_rms vs run
χ² / ndf 1.469e+04 / 93
p0 2369 ± 1.791
2800
2600
2400
2200
2000
1800
1600
1400

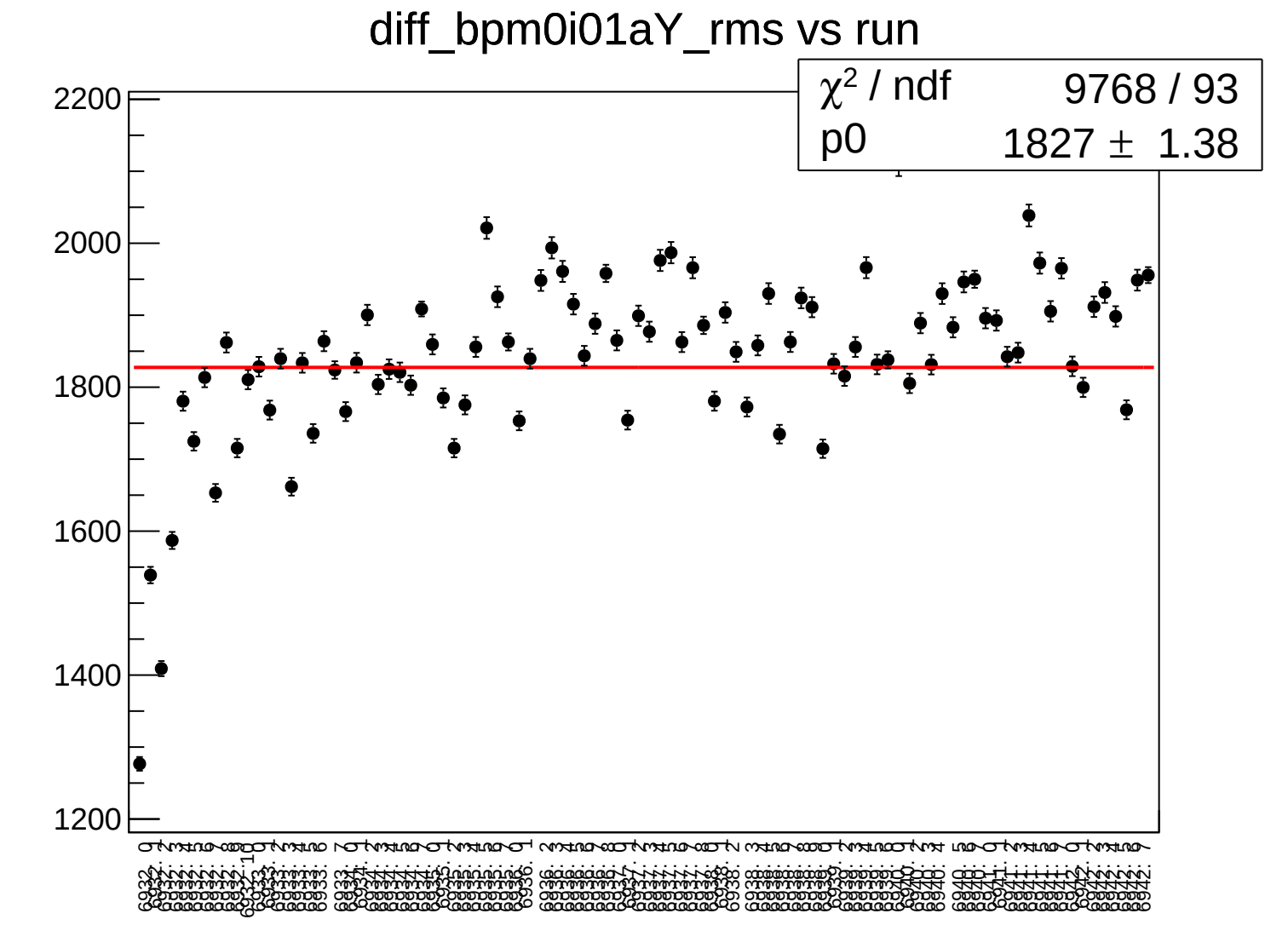

diff_bpm0i01aX_mean vs run
χ² / ndf 121.6 / 93
p0 11.13 ± 2.339
pull
Entries 94
Mean 384.9
Std Dev 0

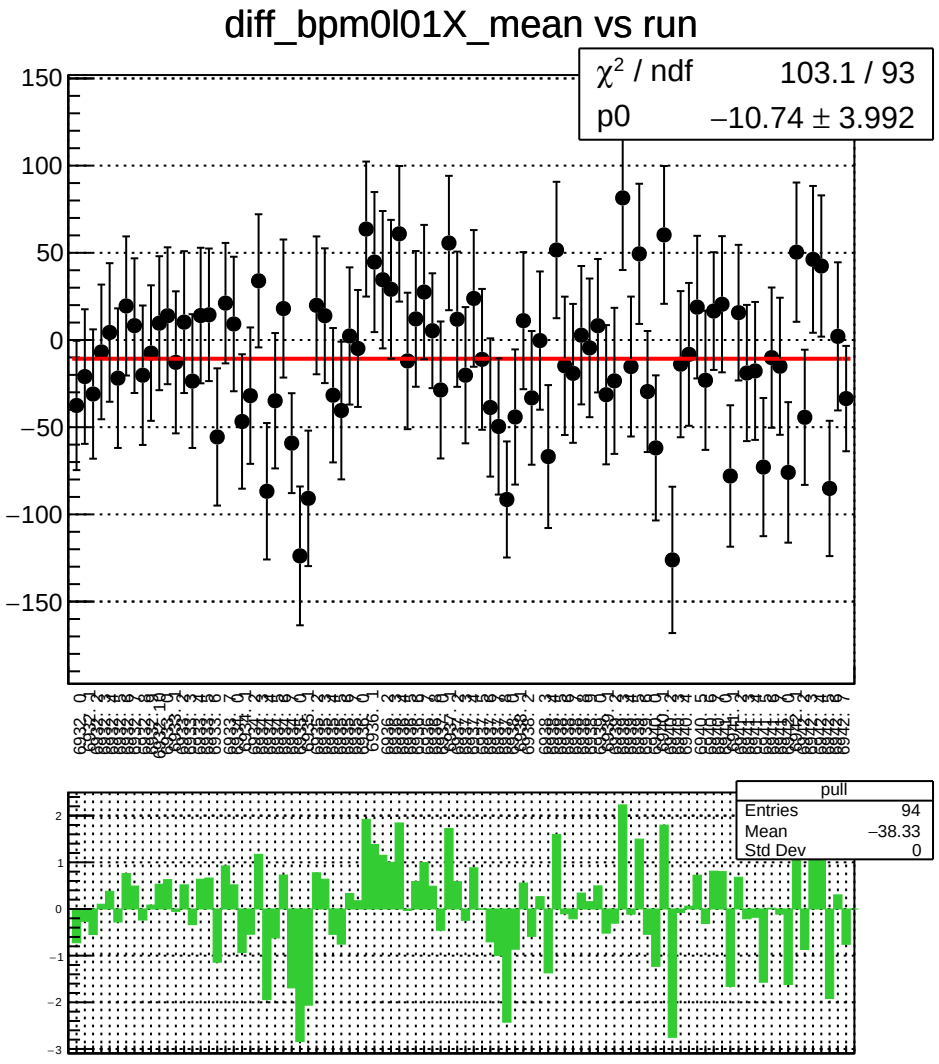

pull1D
Entries 94
Mean 0.02067
Std Dev 1.137

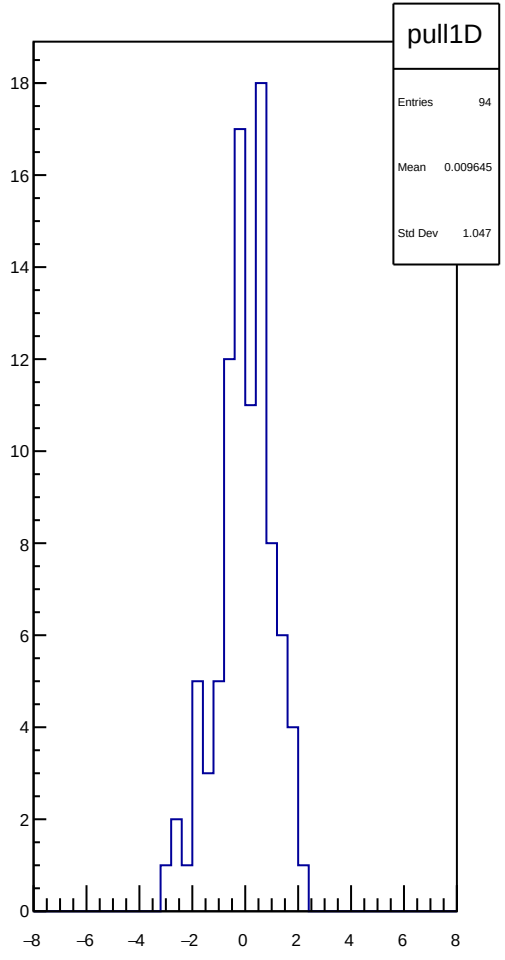

diff_bpm0i01aX_rms vs run
χ² / ndf 1.509e+04 / 93
p0 2188 ± 1.654
2800
2600
2400
2200
2000
1800
1600
1400

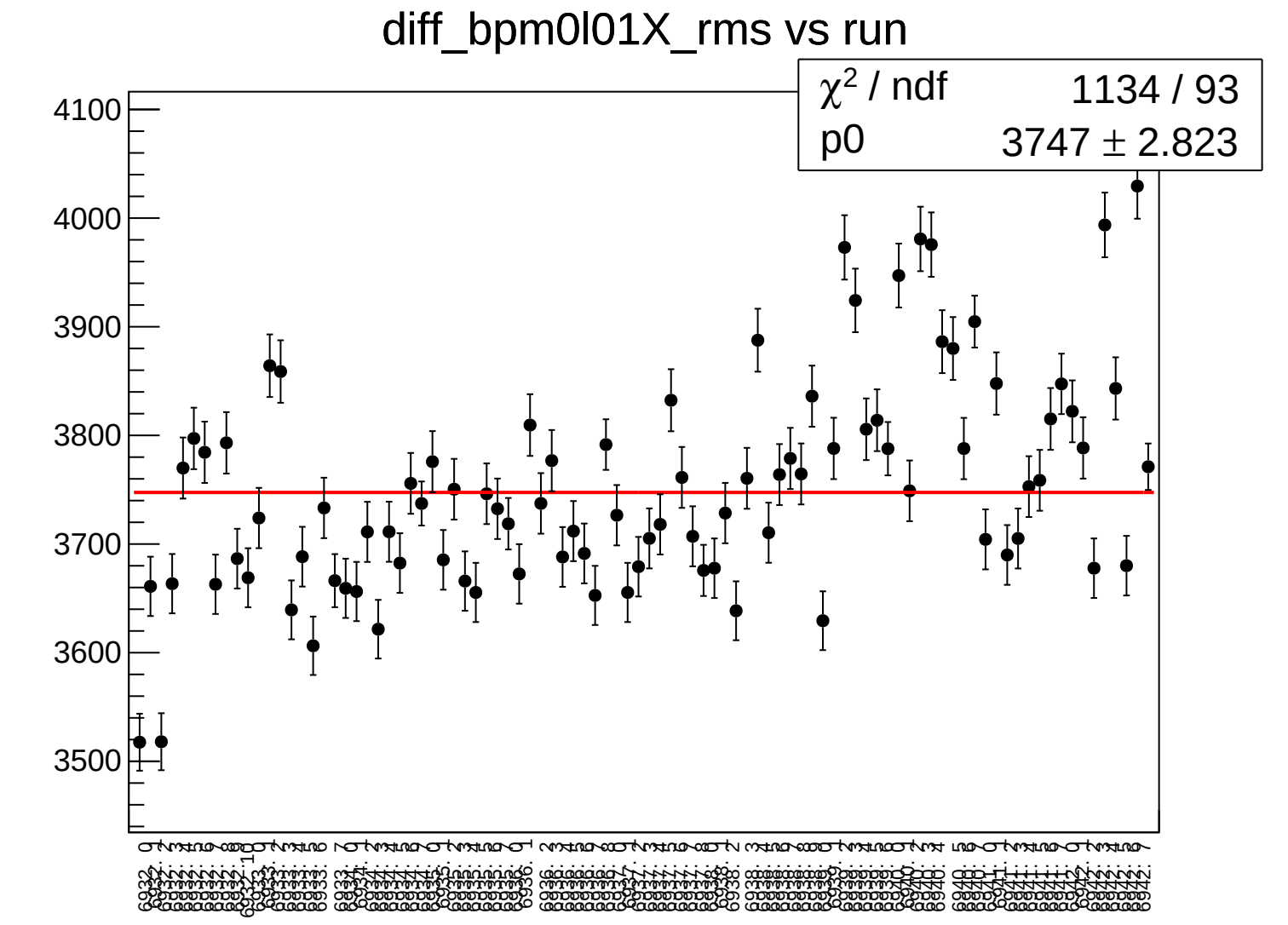

diff_bpm0i01aY_mean vs run
χ² / ndf 100.5 / 93
p0 −3.153 ± 1.951
pull
Entries 94
Mean 228.4
Std Dev 0

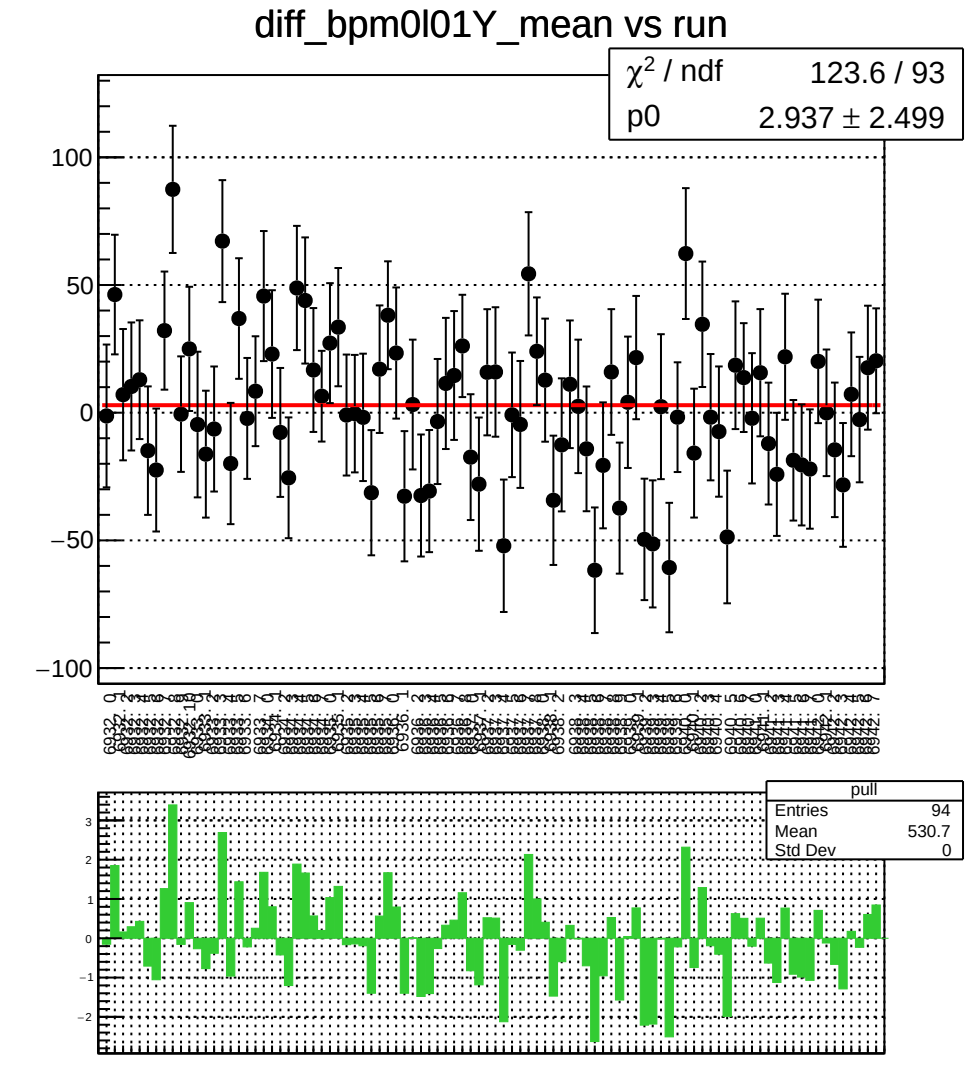

pull1D
Entries 94
Mean 0.00669
Std Dev 1.034

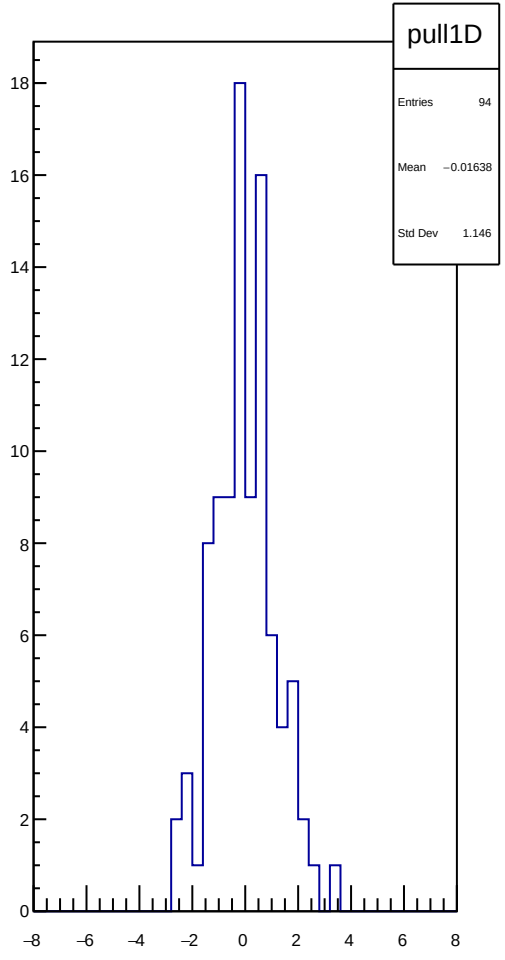

diff_bpm0i01aY_rms vs run
χ² / ndf 9768 / 93
p0 1827 ± 1.38
2200
2000
1800
1600
1400
1200

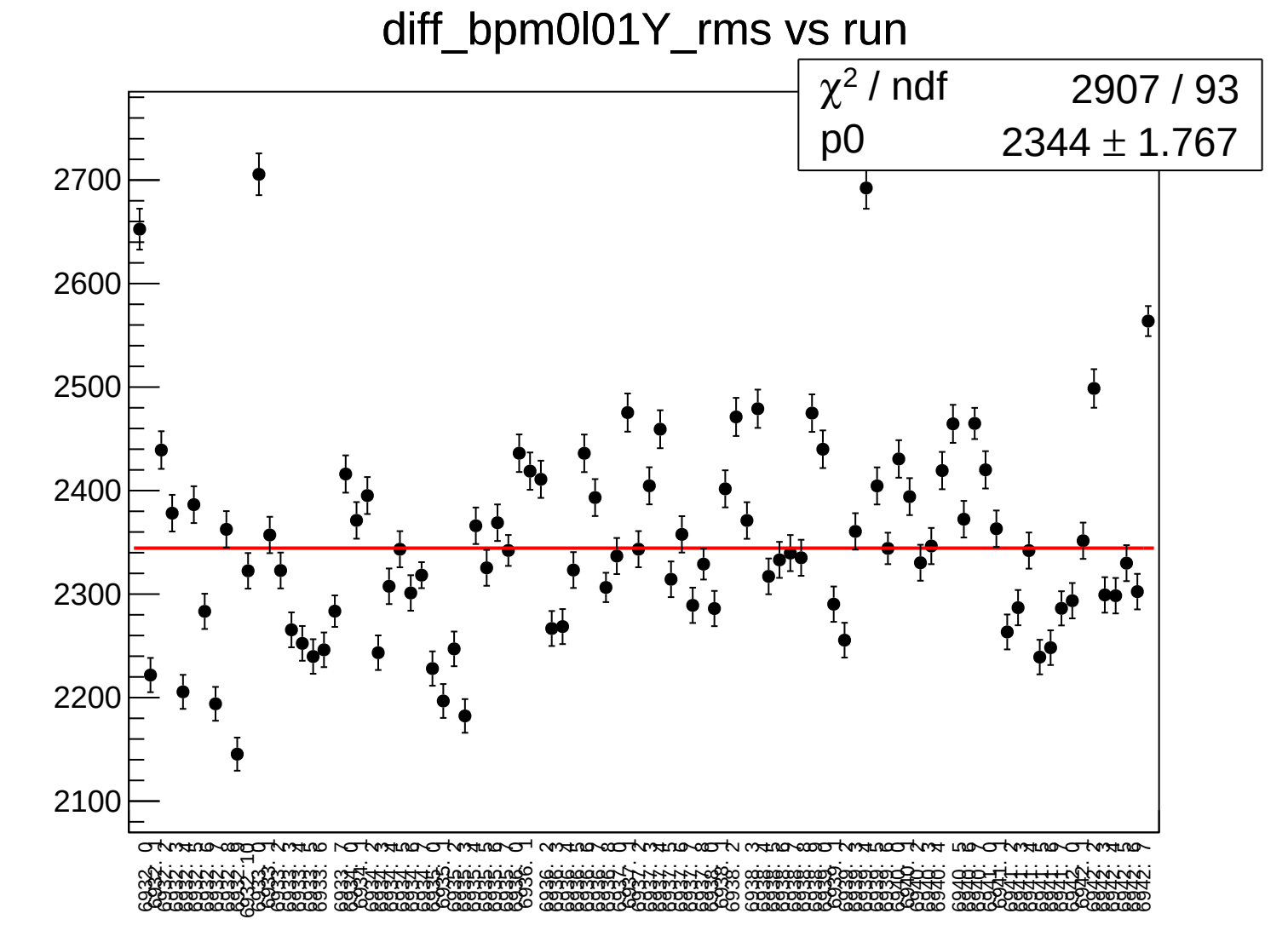

diff_bpm0l01X_mean vs run
χ^2 / ndf 103.1 / 93
p0 −10.74 ± 3.992
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −38.33
Std Dev 0
2
1
0
−1
−2
−3

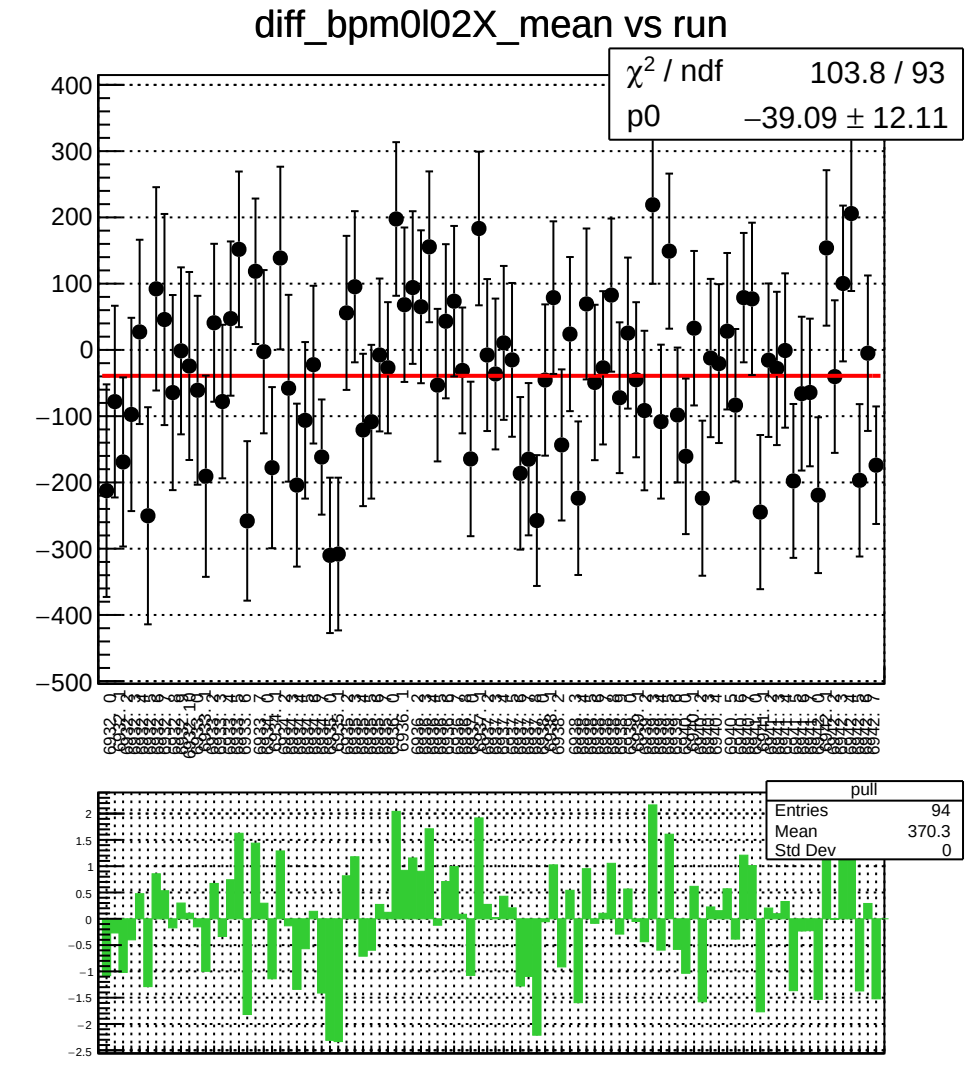

pull1D
Entries 94
Mean 0.009645
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

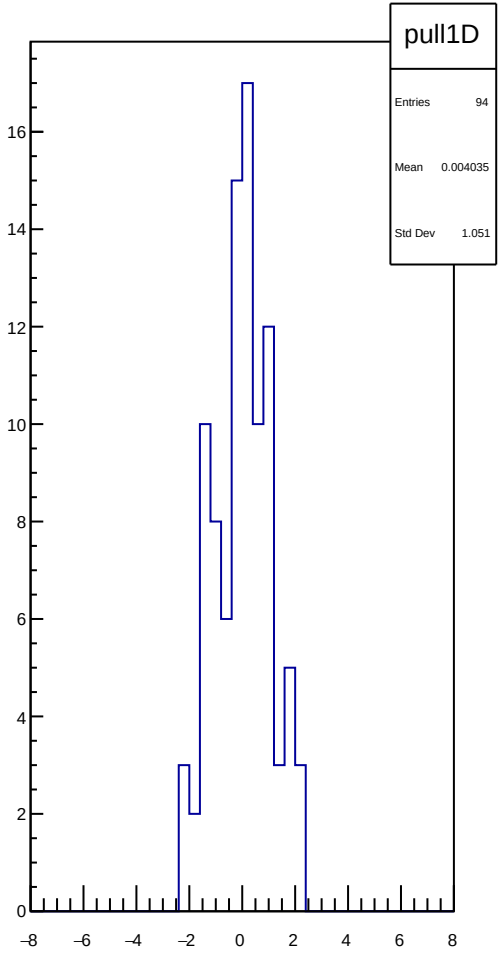

diff_bpm0l01X_rms vs run
χ² / ndf 1134 / 93
p0 3747 ± 2.823
4100
4000
3900
3800
3700
3600
3500

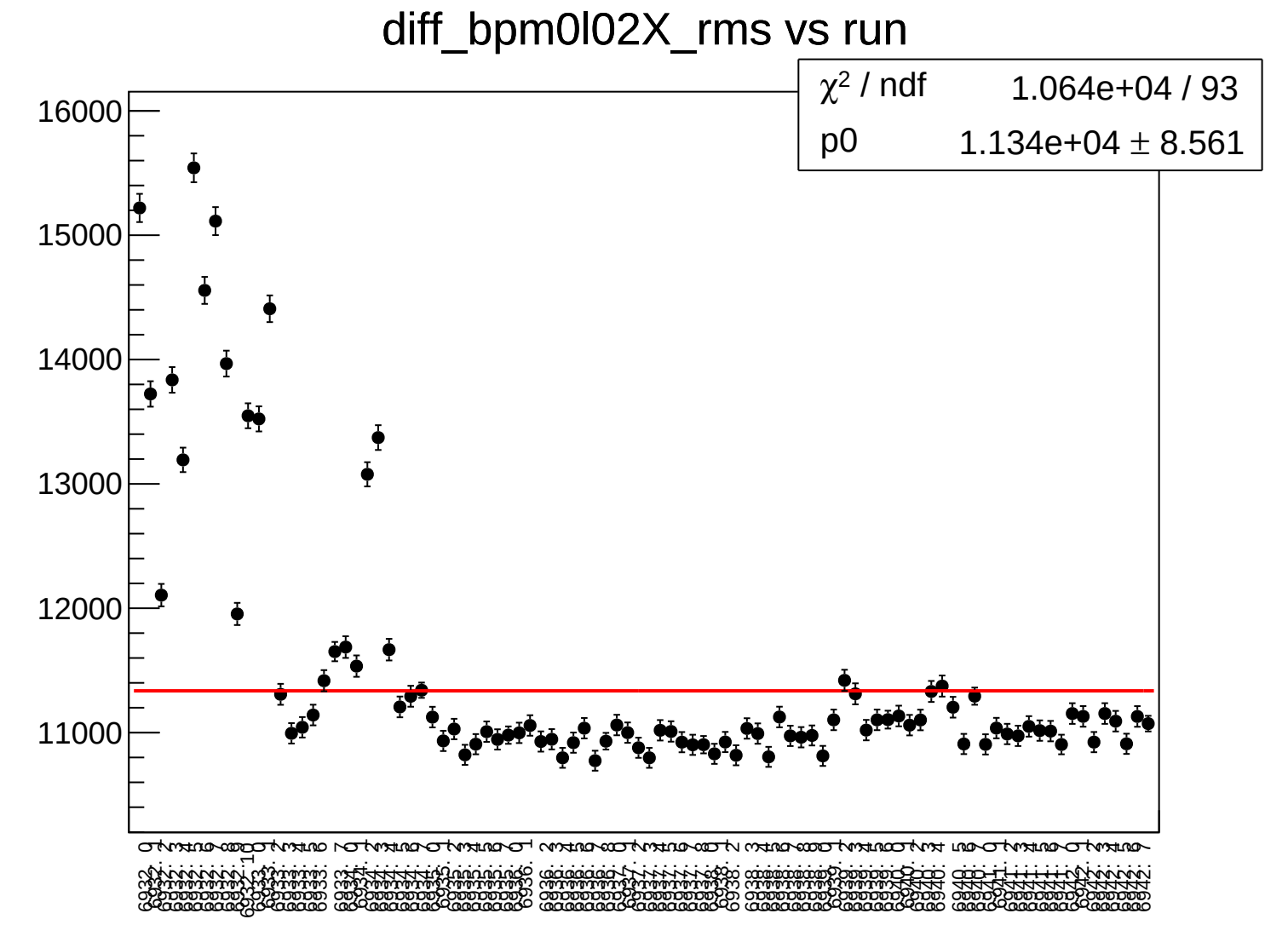

diff_bpm0l01Y_mean vs run
χ² / ndf 123.6 / 93
p0 2.937 ± 2.499
100
50
0
−50
−100
pull
Entries 94
Mean 530.7
Std Dev 0
3
2
1
0
−1
−2

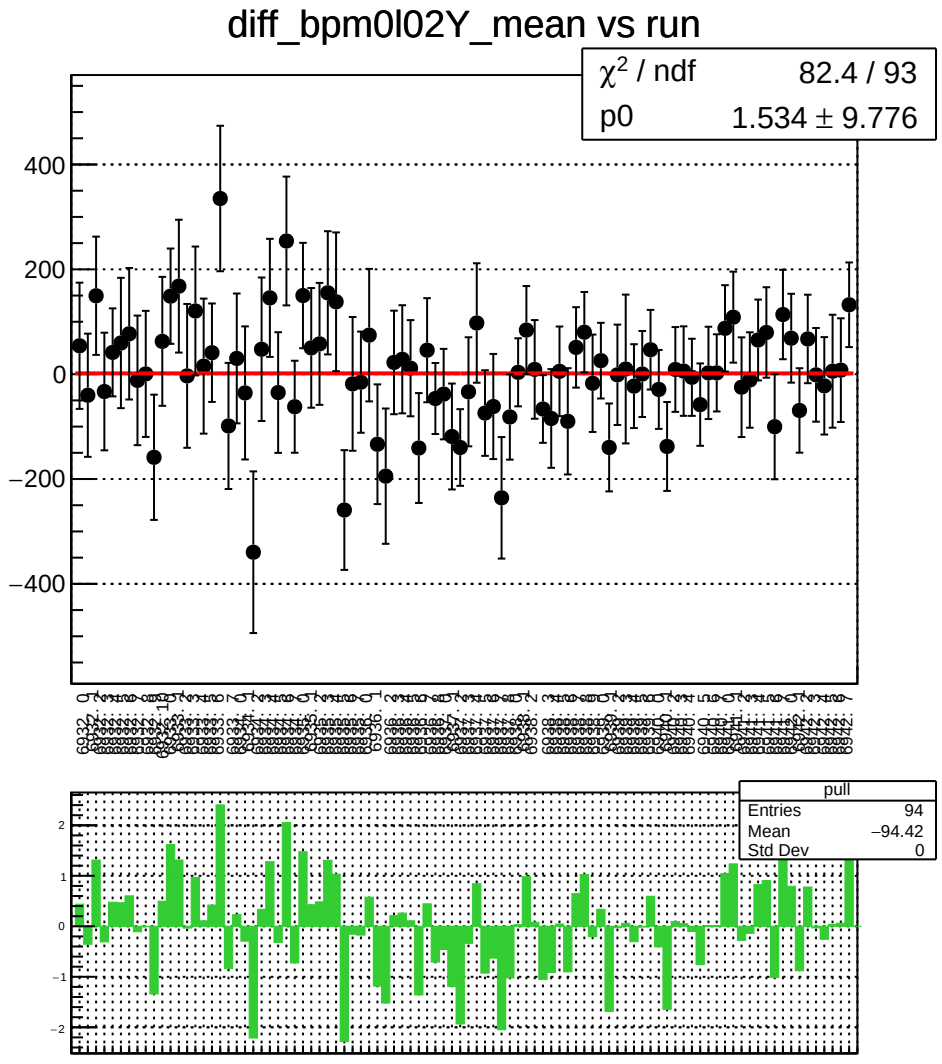

pull1D
Entries 94
Mean −0.01638
Std Dev 1.146
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

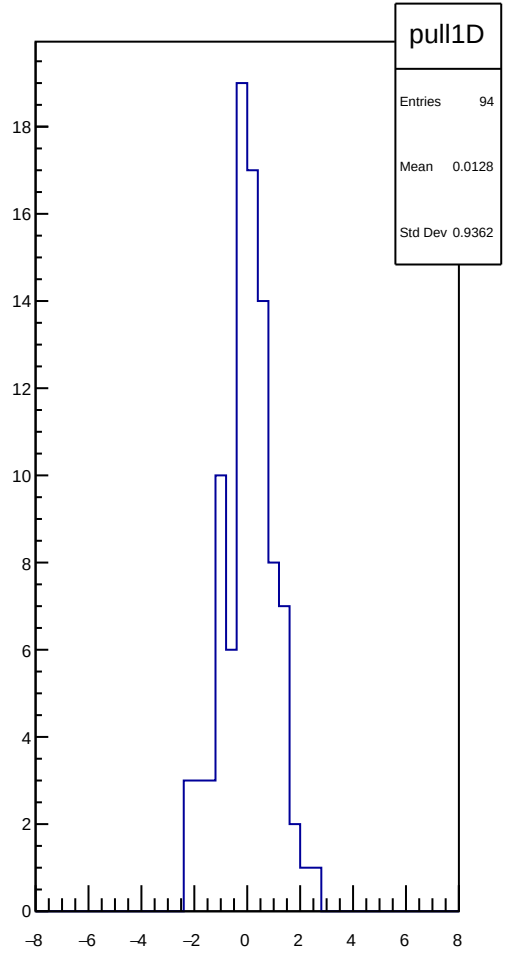

diff_bpm0l01Y_rms vs run
χ² / ndf 2907 / 93
p0 2344 ± 1.767
2700
2600
2500
2400
2300
2200
2100

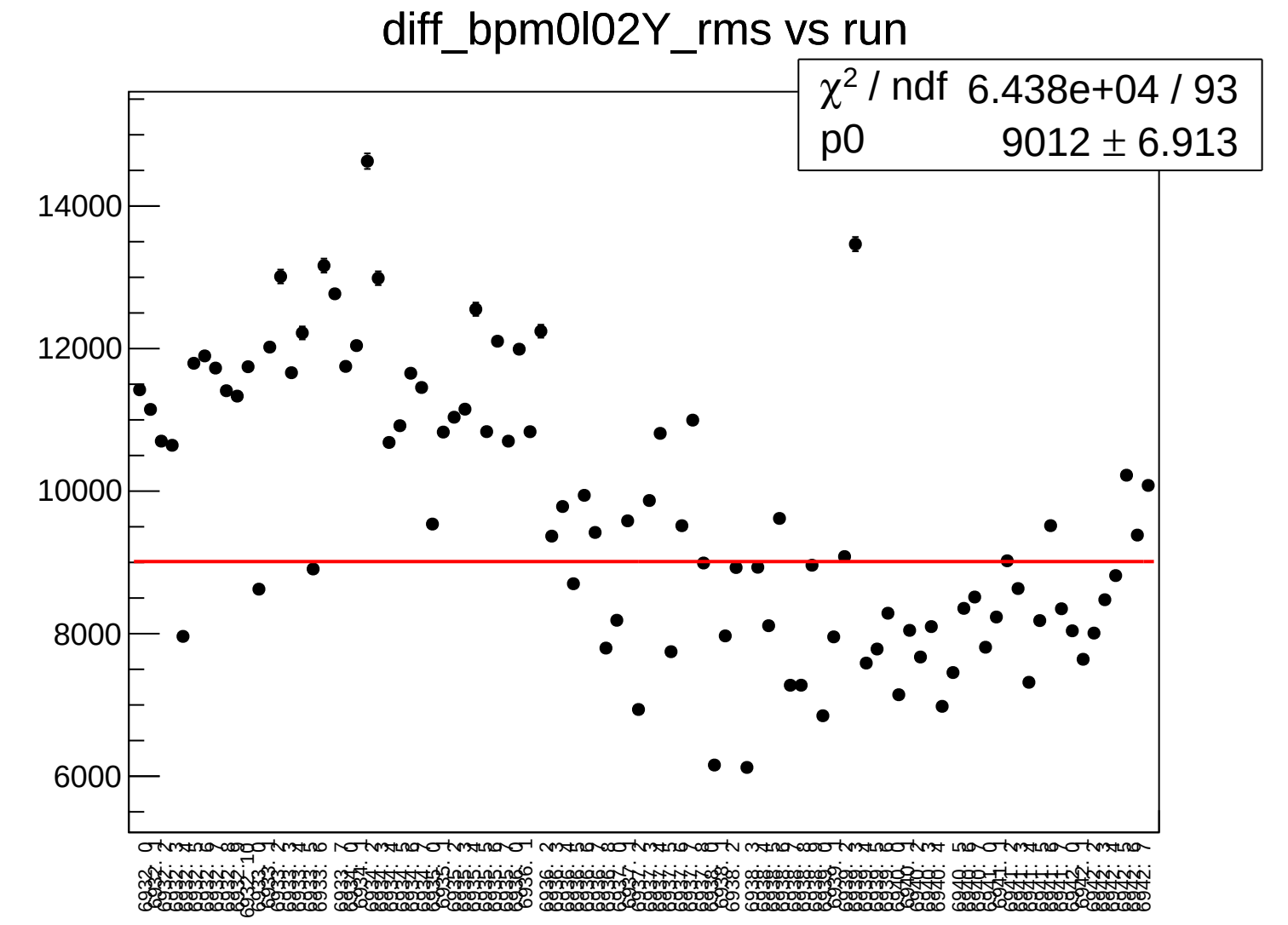

diff_bpm0l02X_mean vs run
χ² / ndf 103.8 / 93
p0 −39.09 ± 12.11
pull
Entries 94
Mean 370.3
Std Dev 0

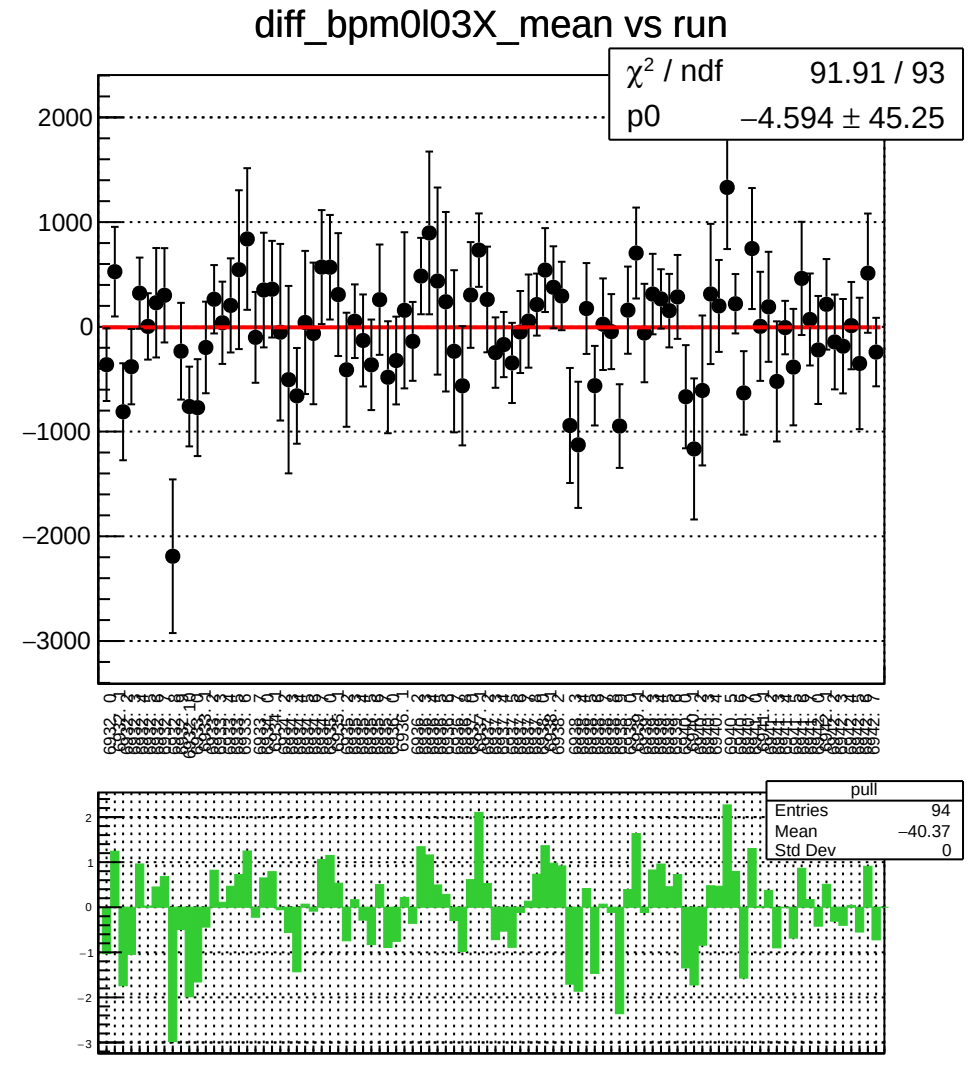

pull1D
Entries 94
Mean 0.004035
Std Dev 1.051

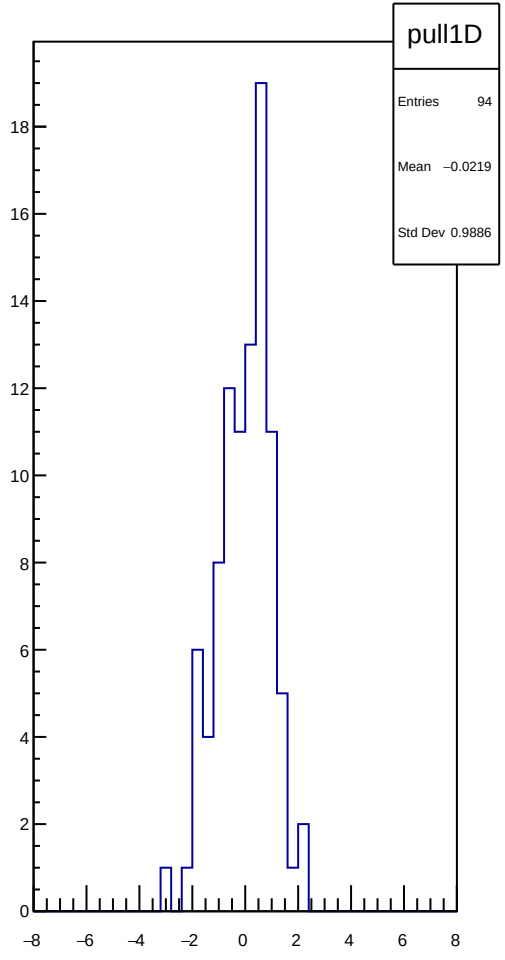

diff_bpm0l02X_rms vs run
χ² / ndf 1.064e+04 / 93
p0 1.134e+04 ± 8.561
16000
15000
14000
13000
12000
11000

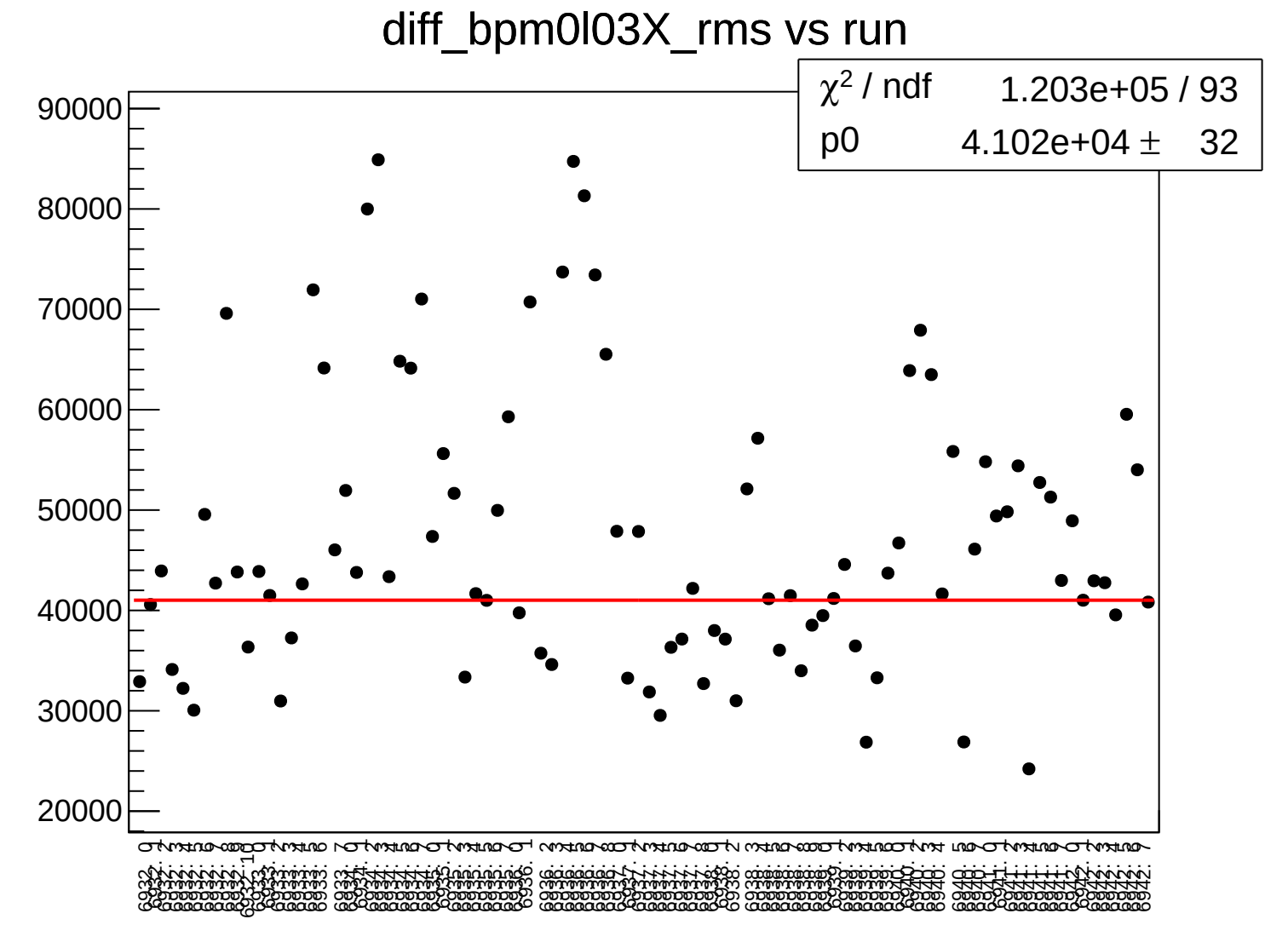

diff_bpm0l02Y_mean vs run
χ^2 / ndf 82.4 / 93
p0 1.534 ± 9.776
400
200
0
−200
−400
pull
Entries 94
Mean −94.42
Std Dev 0
2
1
0
−1
−2

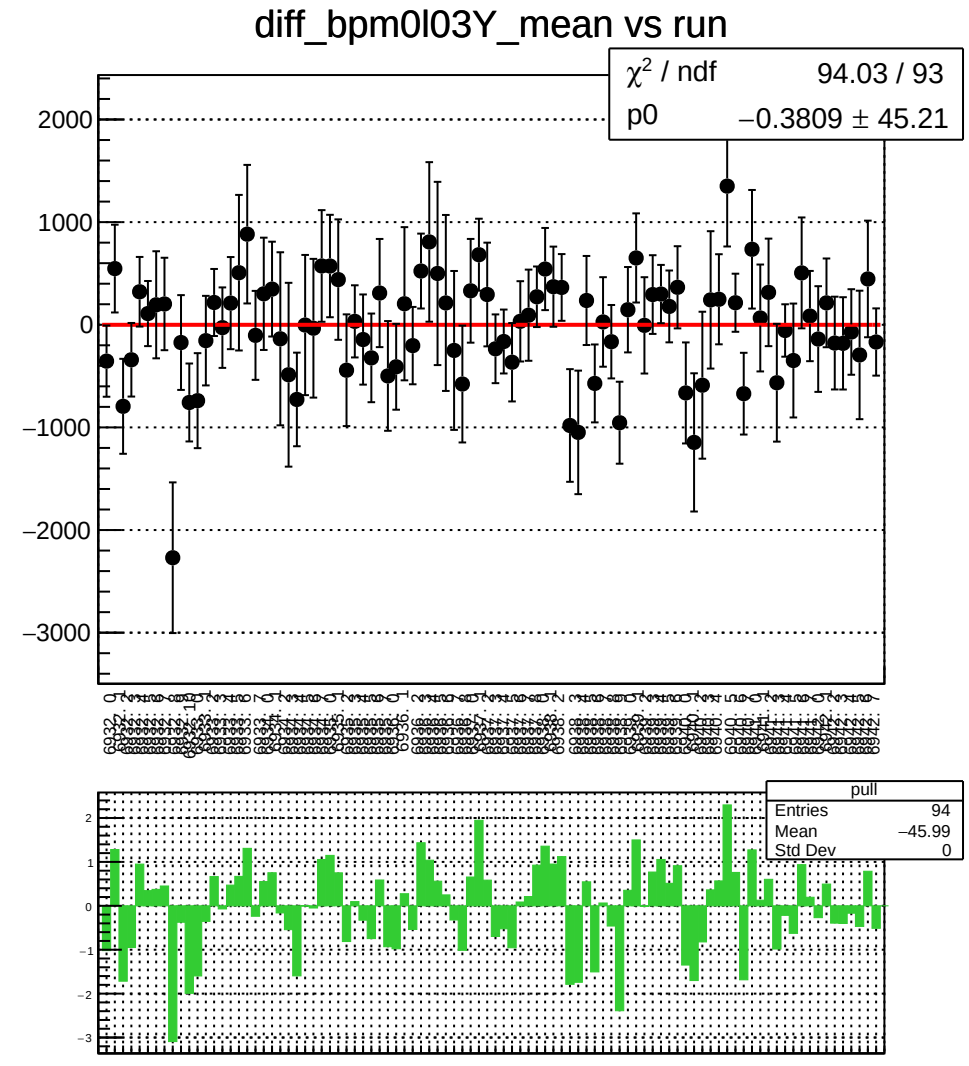

pull1D
Entries 94
Mean 0.0128
Std Dev 0.9362
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

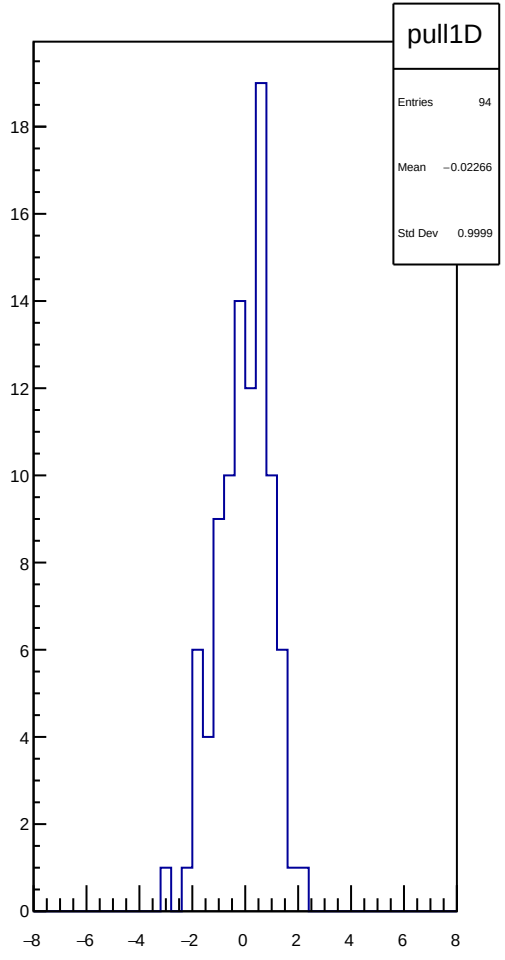

diff_bpm0l02Y_rms vs run
χ^2 / ndf 6.438e+04 / 93
p0 9012 ± 6.913
14000
12000
10000
8000
6000

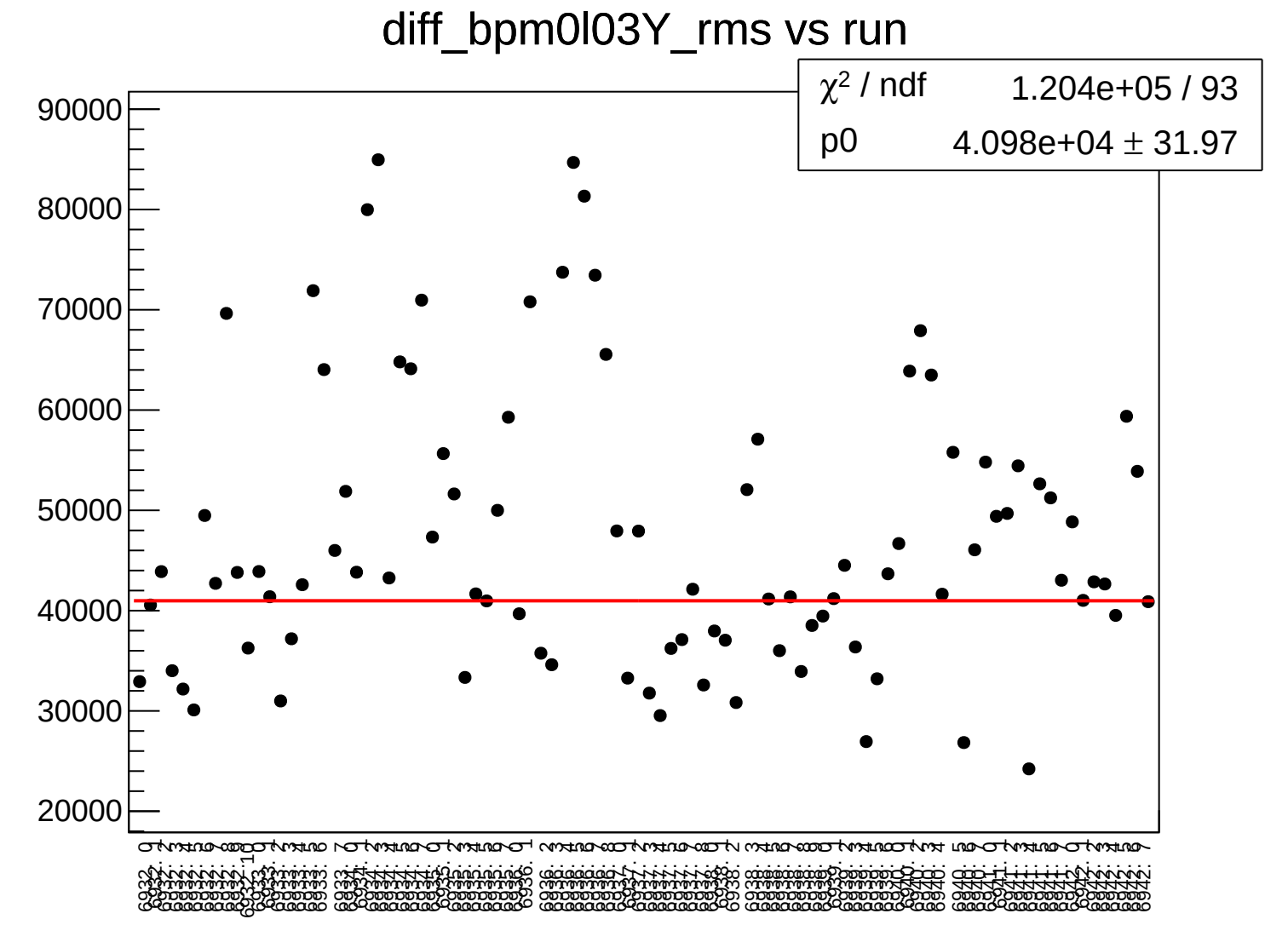

diff_bpm0l03X_mean vs run
χ² / ndf 91.91 / 93
p0 −4.594 ± 45.25
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −40.37
Std Dev 0
2
1
0
−1
−2
−3

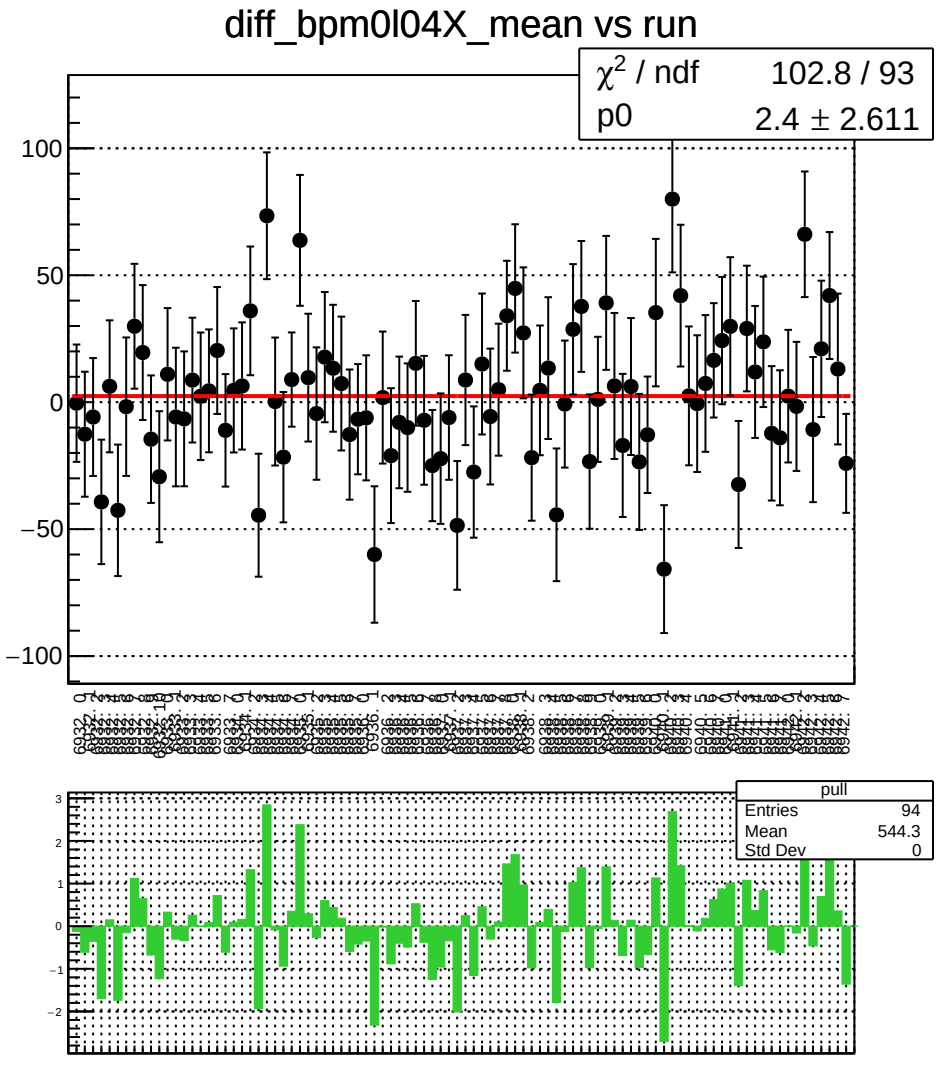

pull1D
Entries 94
Mean −0.0219
Std Dev 0.9886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

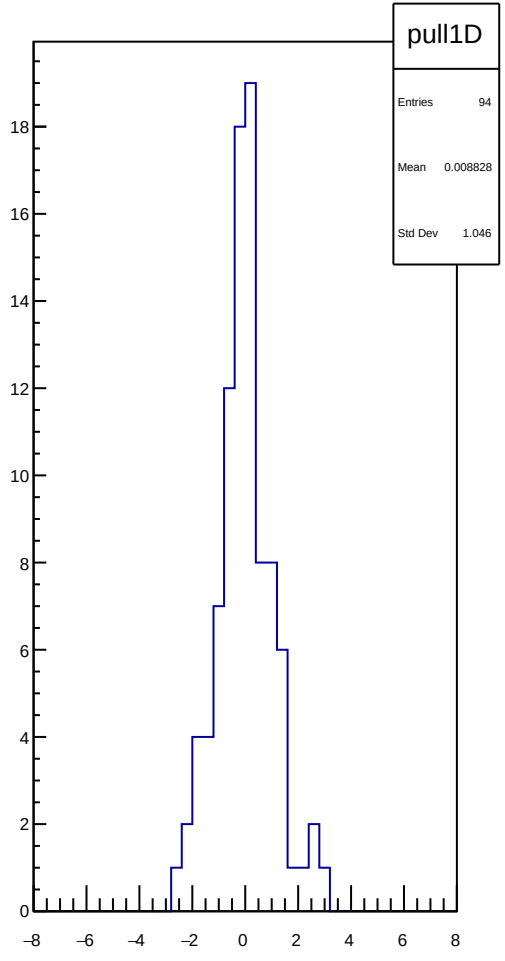

diff_bpm0l03X_rms vs run
χ² / ndf 1.203e+05 / 93
p0 4.102e+04 ± 32
90000
80000
70000
60000
50000
40000
30000
20000

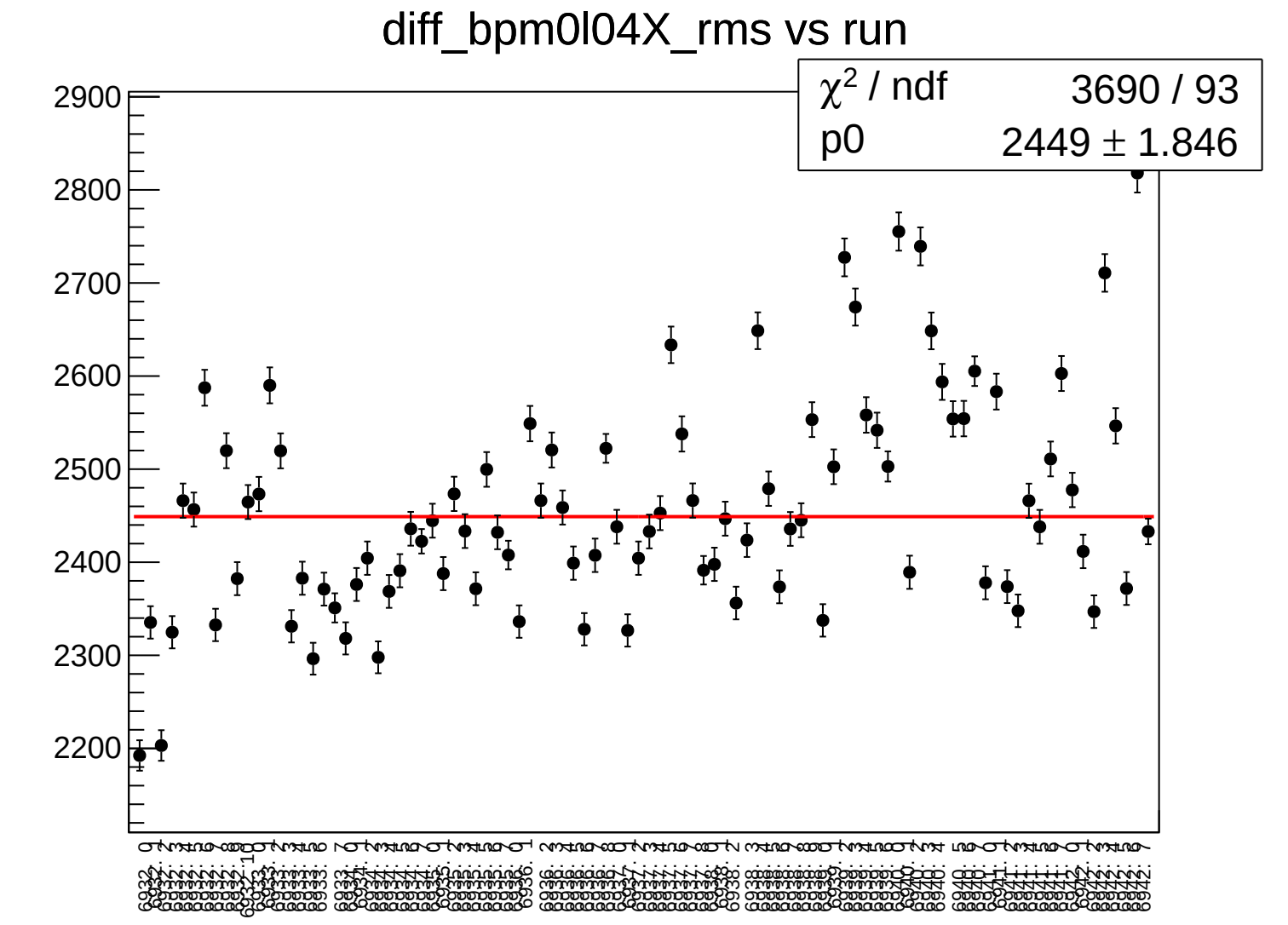

diff_bpm0l03Y_mean vs run
χ² / ndf 94.03 / 93
p0 −0.3809 ± 45.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −45.99
Std Dev 0
2
1
0
−1
−2
−3

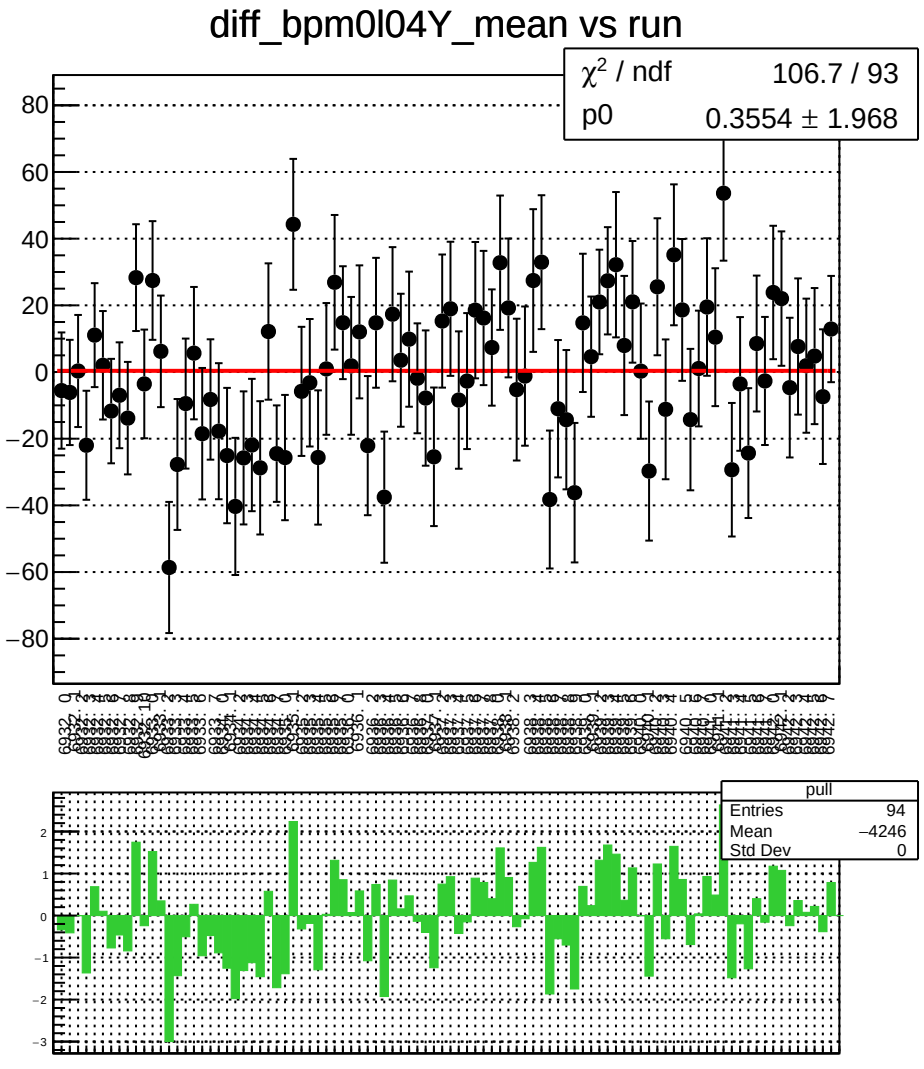

pull1D
Entries 94
Mean −0.02266
Std Dev 0.9999
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

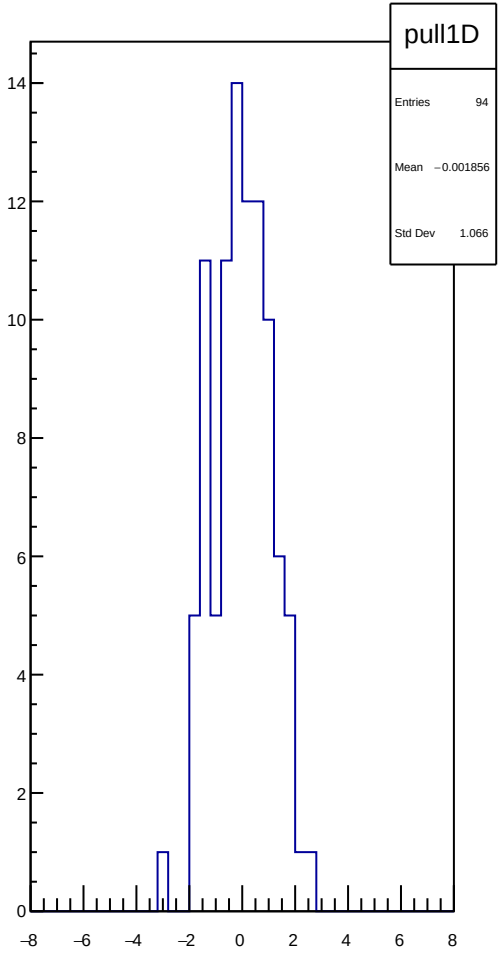

diff_bpm0l03Y_rms vs run
χ² / ndf 1.204e+05 / 93
p0 4.098e+04 ± 31.97
90000
80000
70000
60000
50000
40000
30000
20000

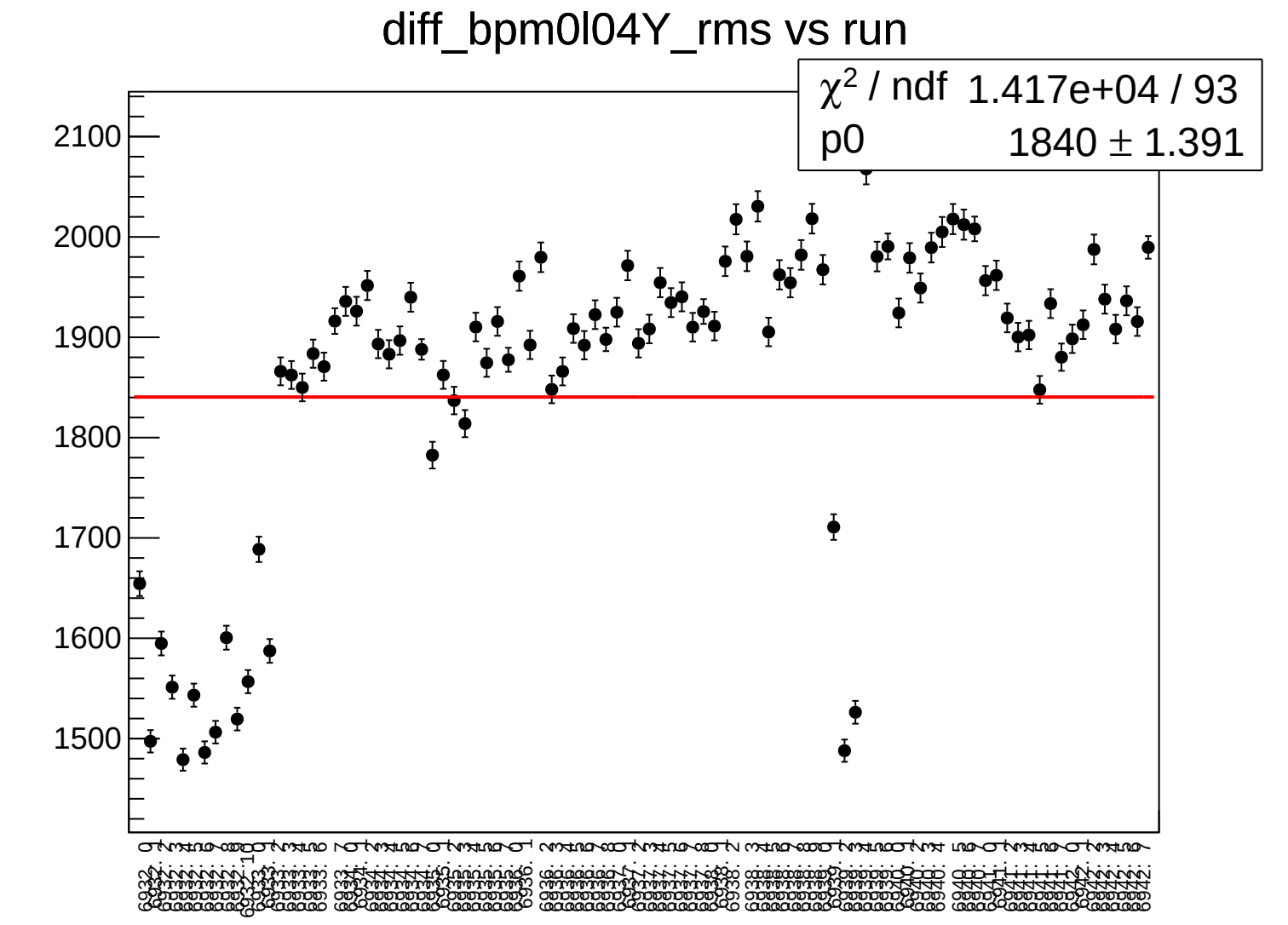

diff_bpm0l04X_mean vs run
χ² / ndf 102.8 / 93
p0 2.4 ± 2.611
100
50
0
−50
−100
pull
Entries 94
Mean 544.3
Std Dev 0
3
2
1
0
−1
−2

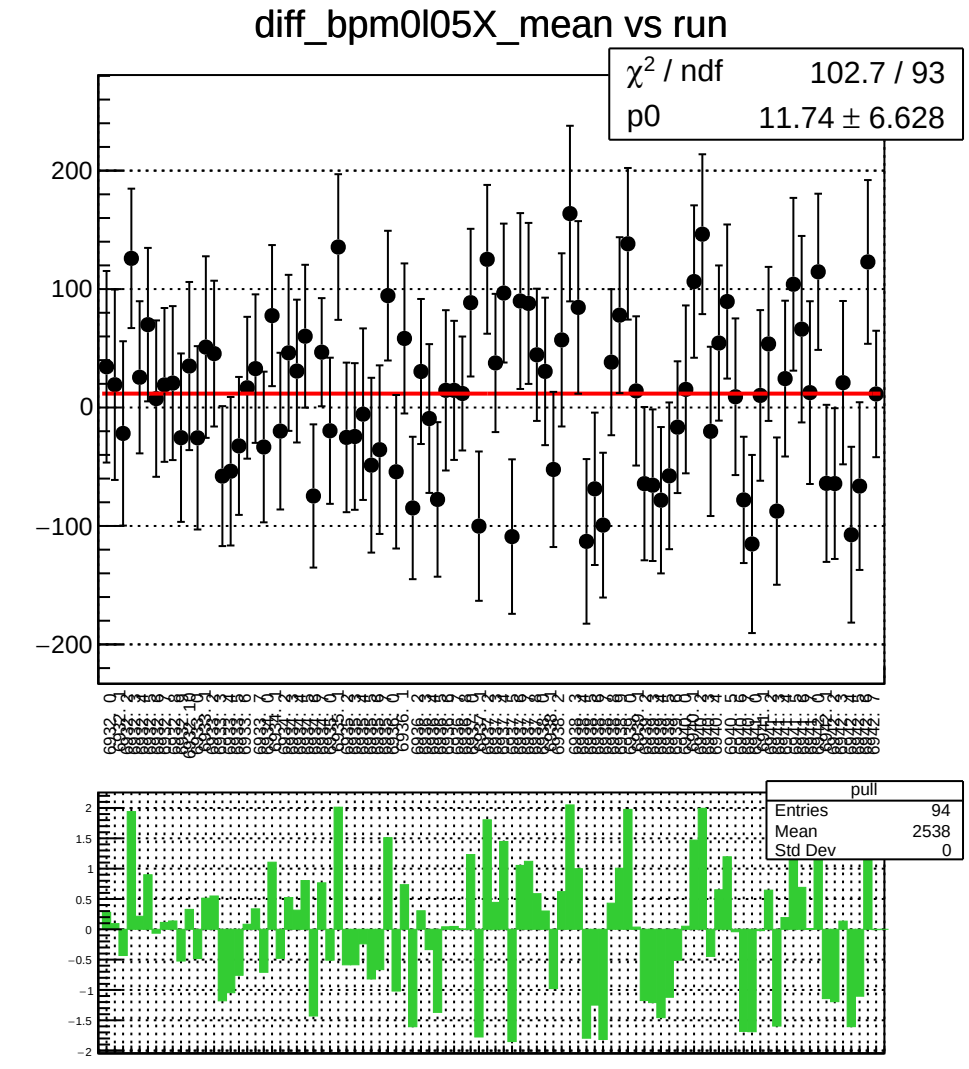

pull1D
Entries 94
Mean 0.008828
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

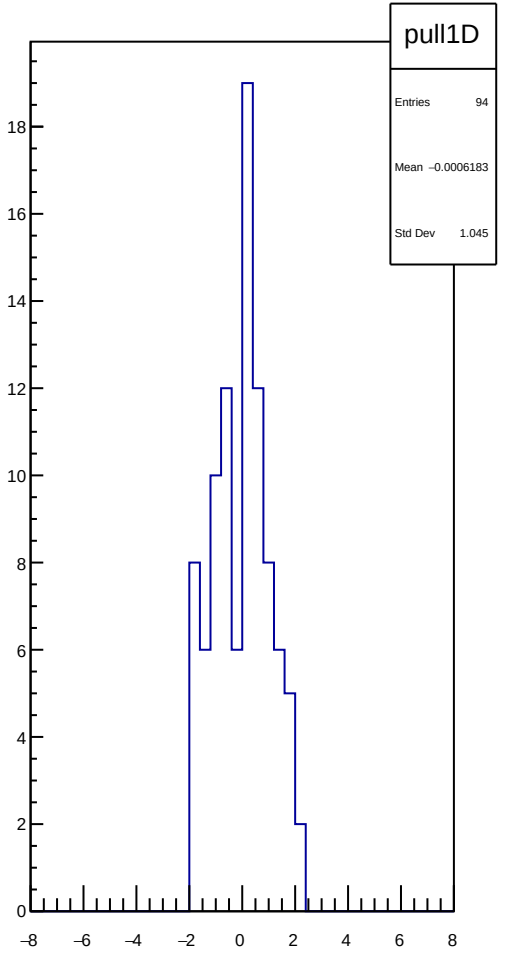

diff_bpm0l04X_rms vs run
χ² / ndf 3690 / 93
p0 2449 ± 1.846
2900
2800
2700
2600
2500
2400
2300
2200

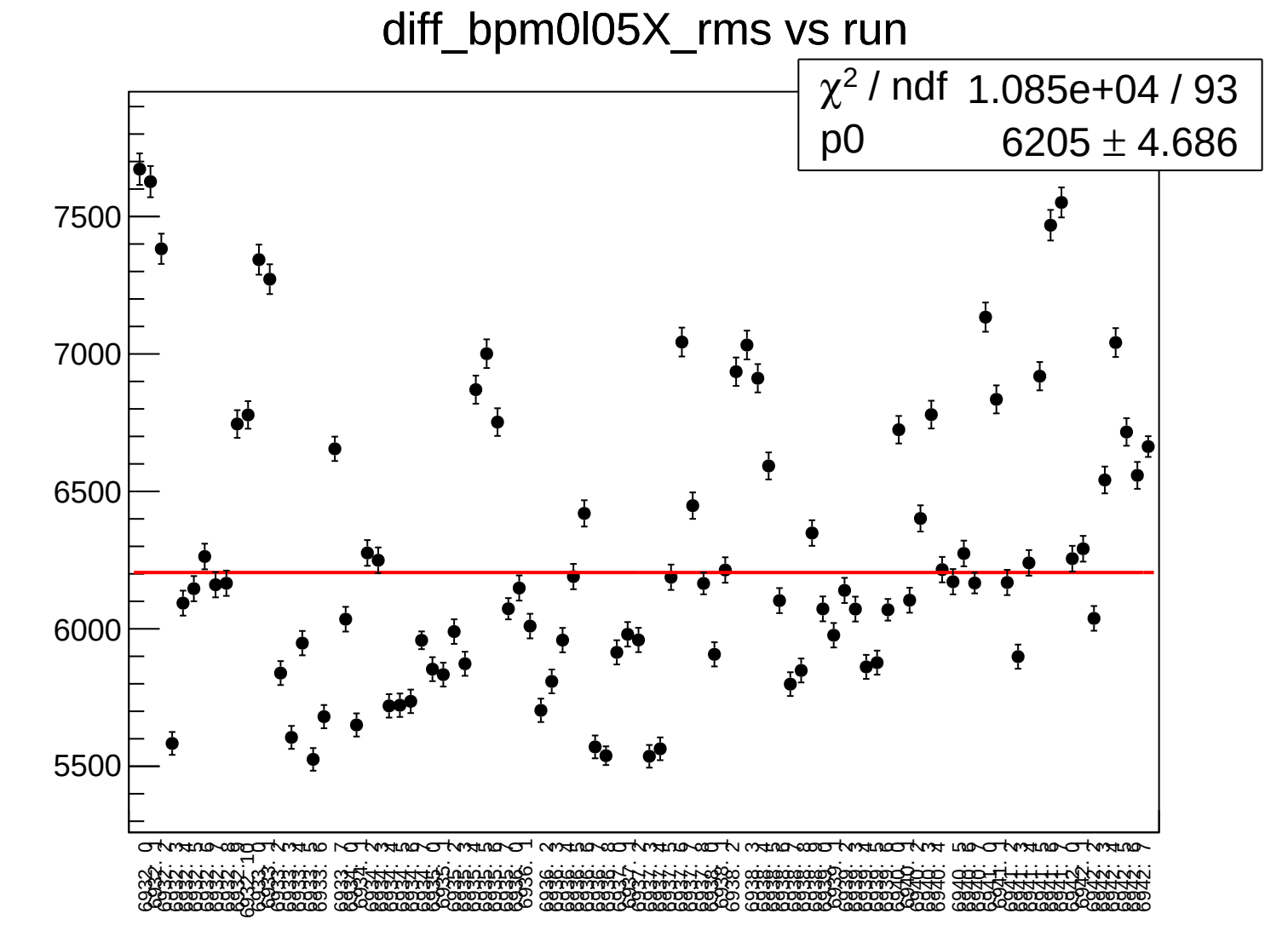

diff_bpm0l04Y_mean vs run
χ² / ndf 106.7 / 93
p0 0.3554 ± 1.968
pull
Entries 94
Mean −4246
Std Dev 0

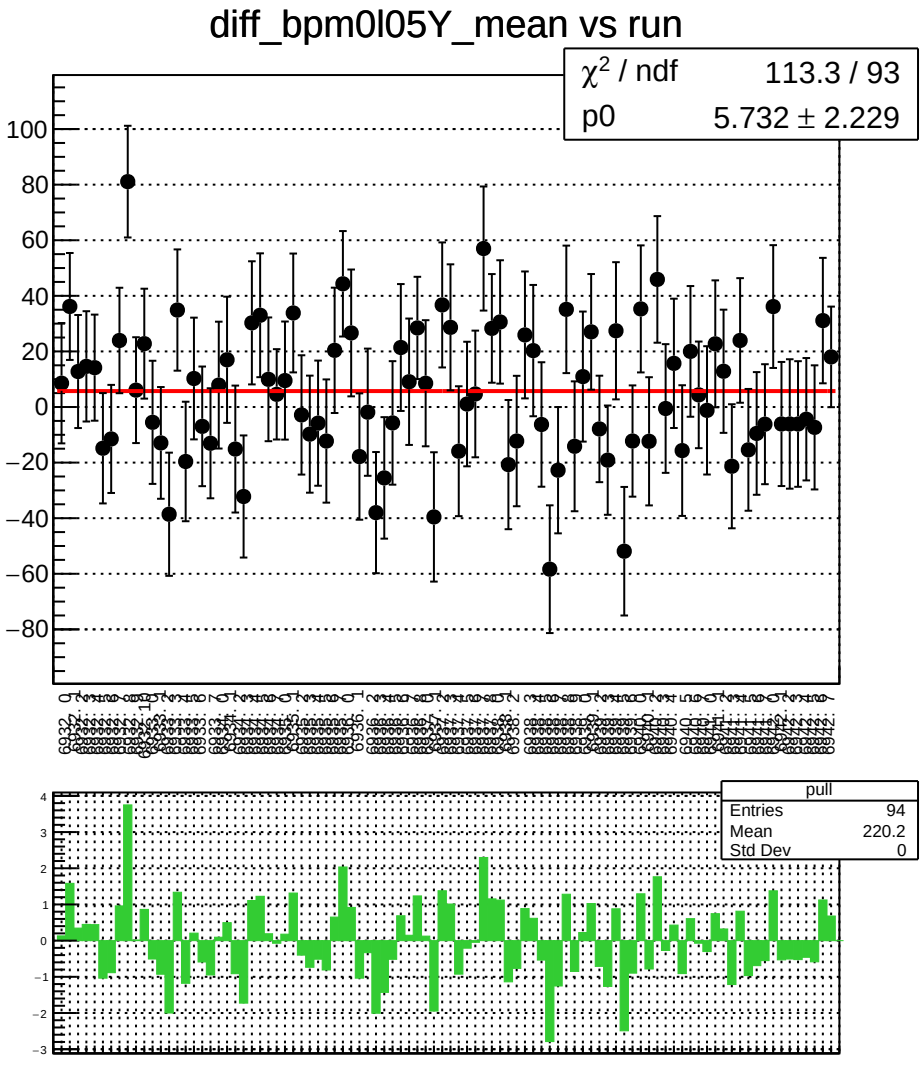

pull1D
Entries 94
Mean −0.001856
Std Dev 1.066

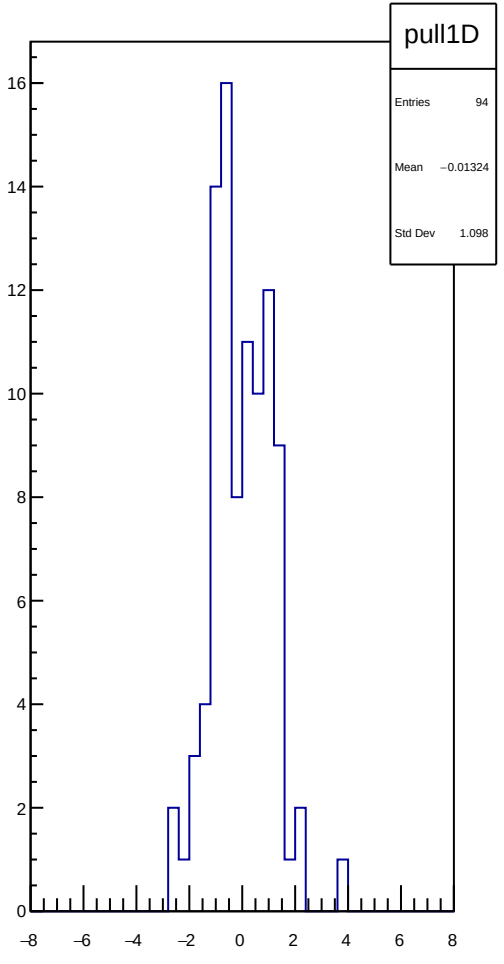

diff_bpm0l04Y_rms vs run
χ² / ndf 1.417e+04 / 93
p0 1840 ± 1.391
2100
2000
1900
1800
1700
1600
1500

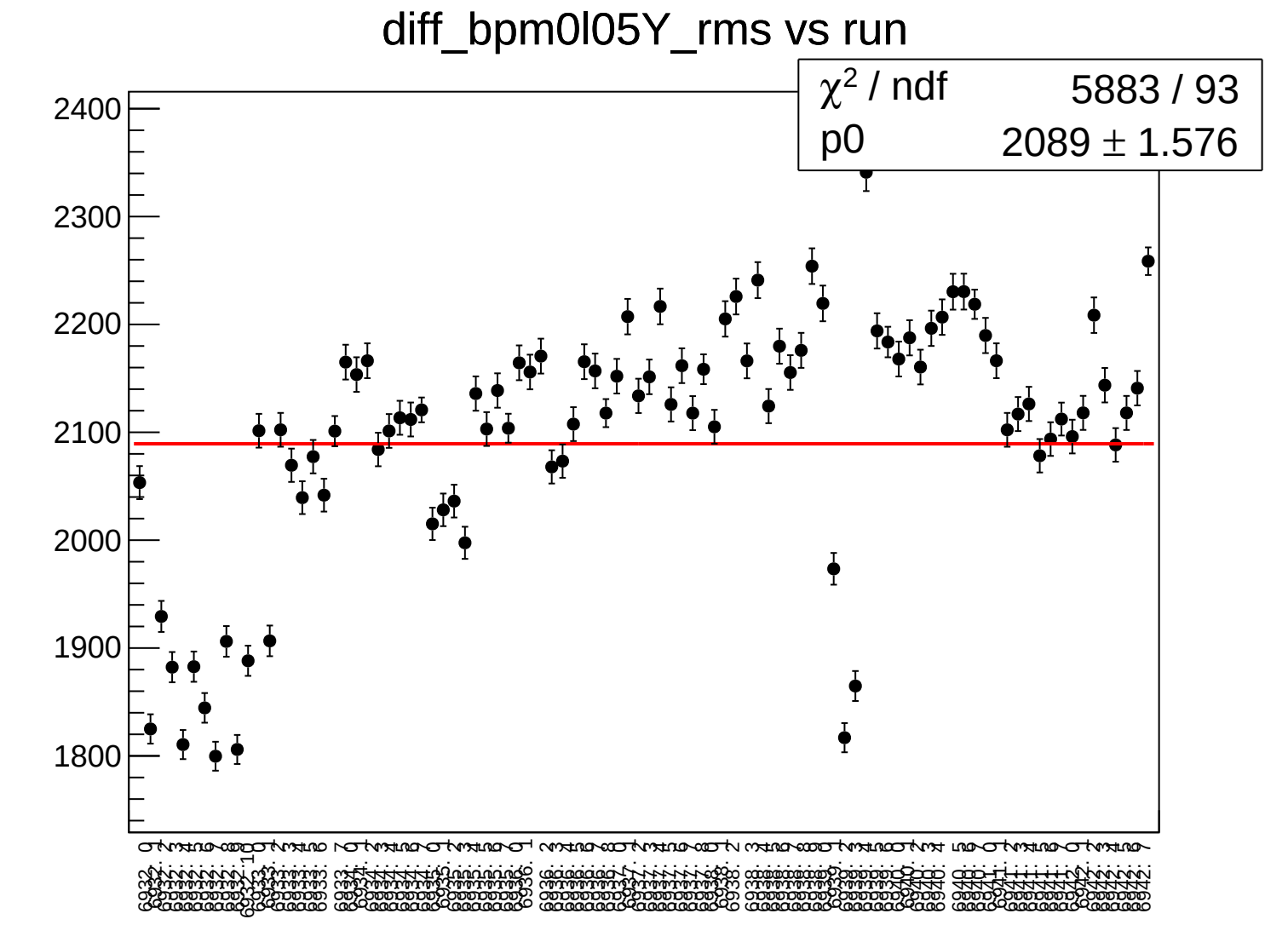

diff_bpm0l05X_mean vs run
χ² / ndf 102.7 / 93
p0 11.74 ± 6.628
200
100
0
−100
−200
pull
Entries 94
Mean 2538
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

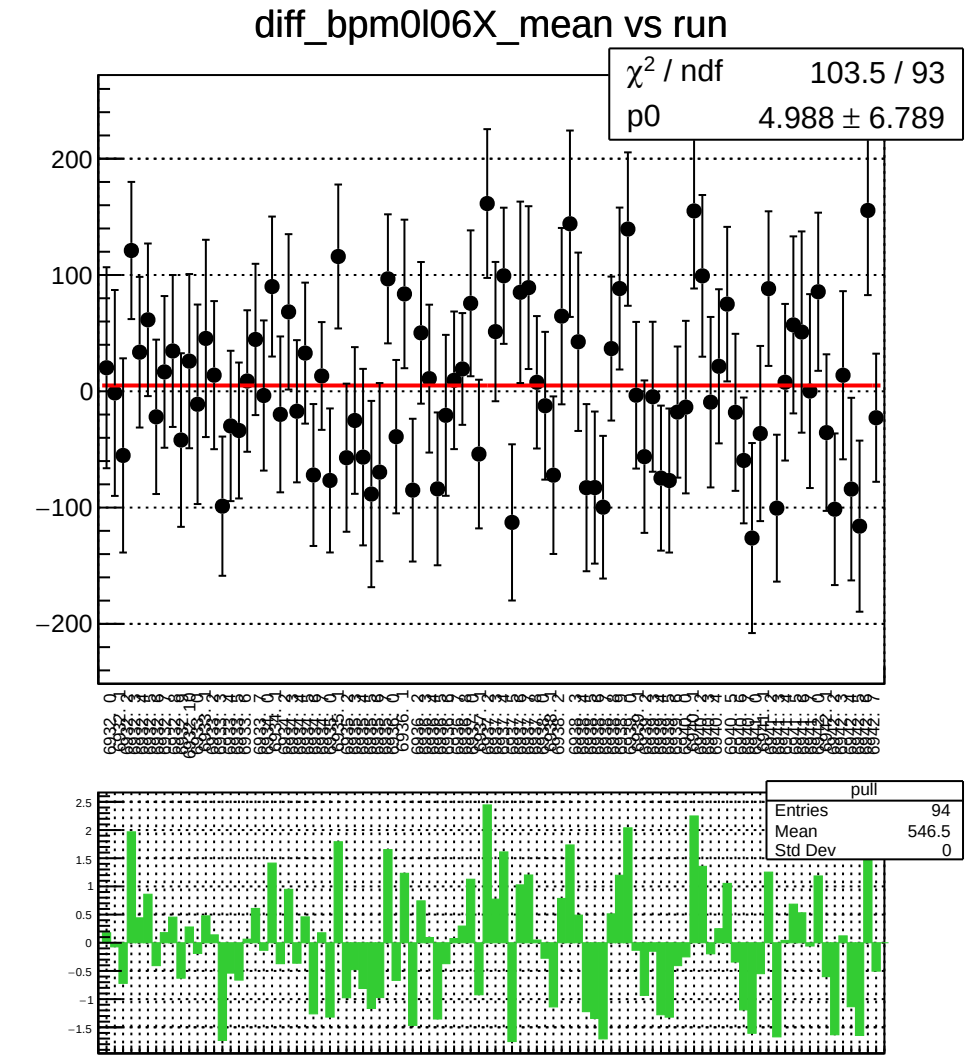

pull1D
Entries 94
Mean −0.0006183
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

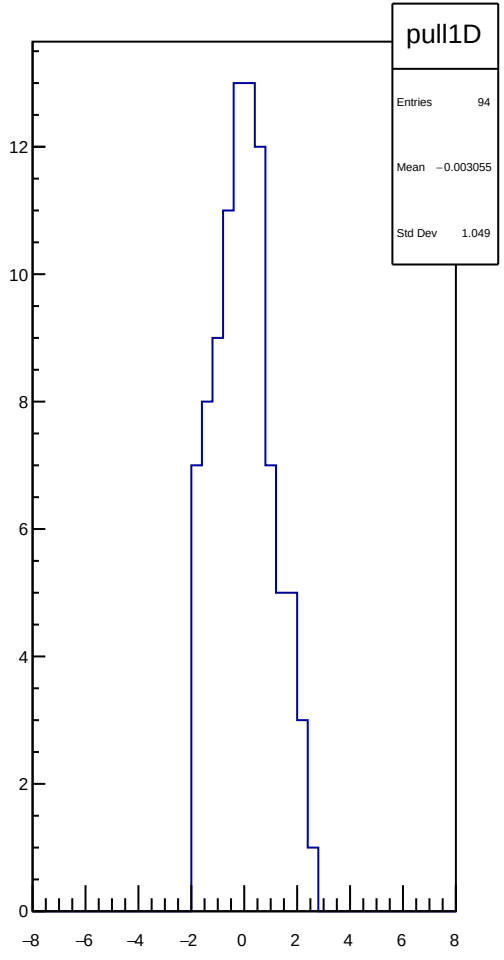

diff_bpm0l05X_rms vs run
χ^2 / ndf 1.085e+04 / 93
p0 6205 ± 4.686
7500
7000
6500
6000
5500

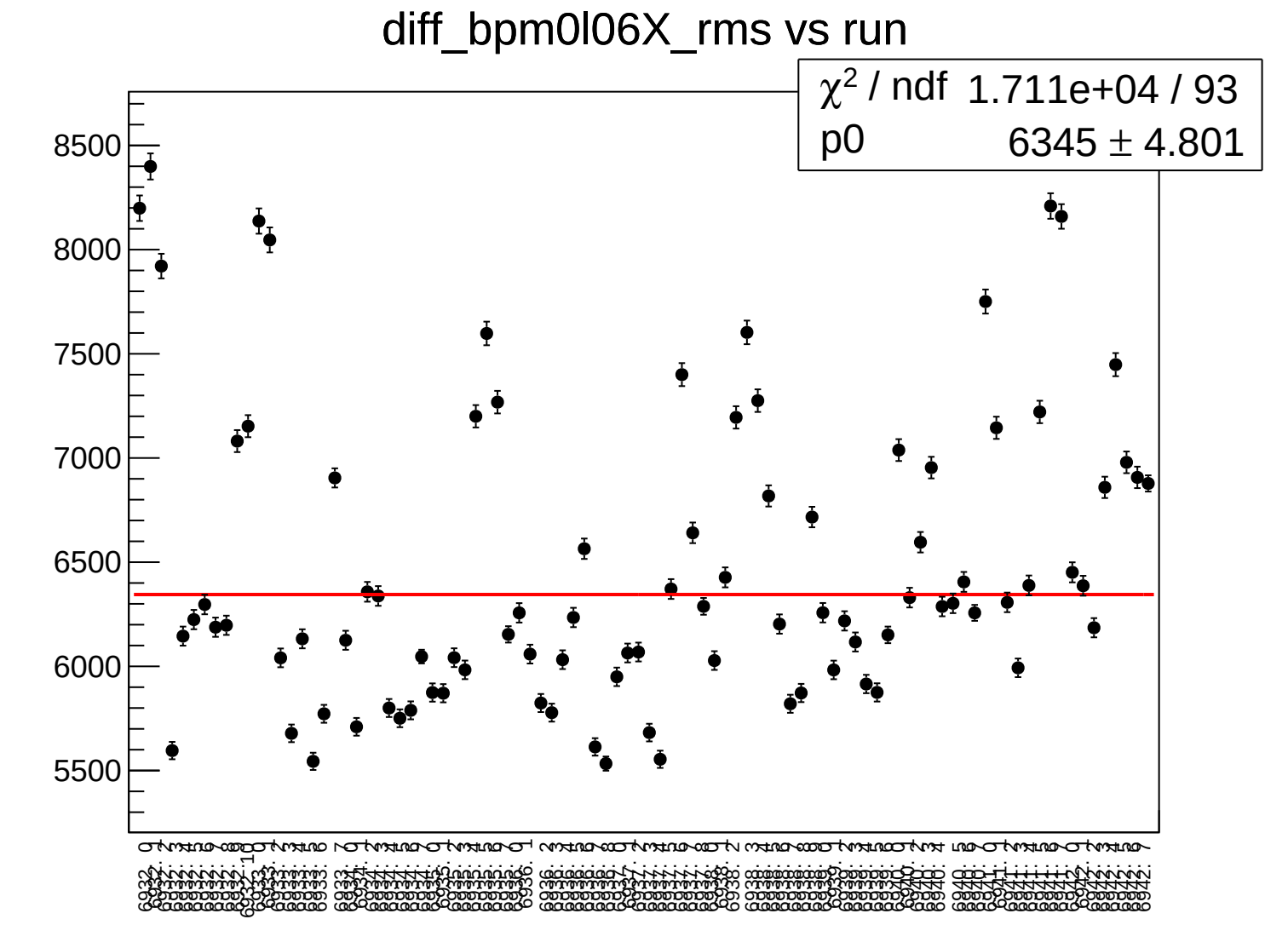

diff_bpm0l05Y_mean vs run
χ^2 / ndf 113.3 / 93
p0 5.732 ± 2.229
pull
Entries 94
Mean 220.2
Std Dev 0

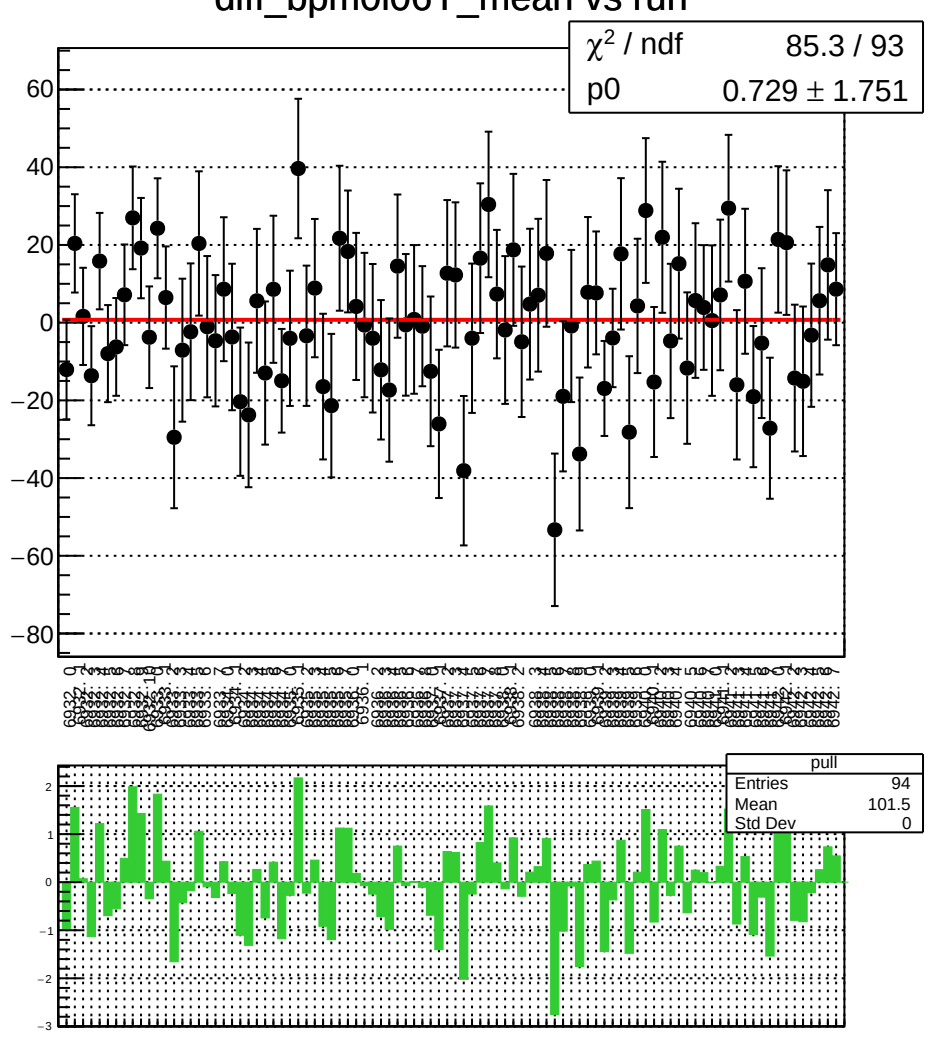

pull1D
Entries 94
Mean −0.01324
Std Dev 1.098

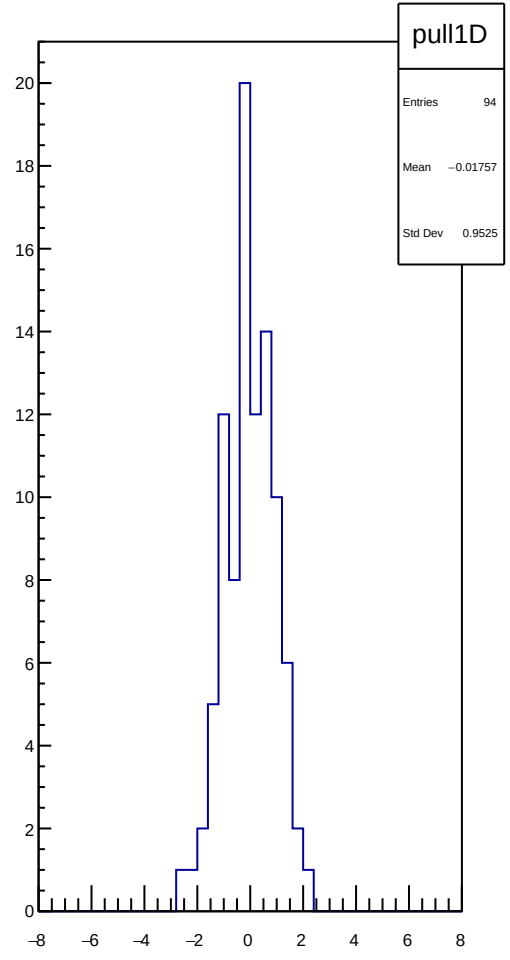

diff_bpm0l05Y_rms vs run
χ² / ndf 5883 / 93
p0 2089 ± 1.576
2400
2300
2200
2100
2000
1900
1800

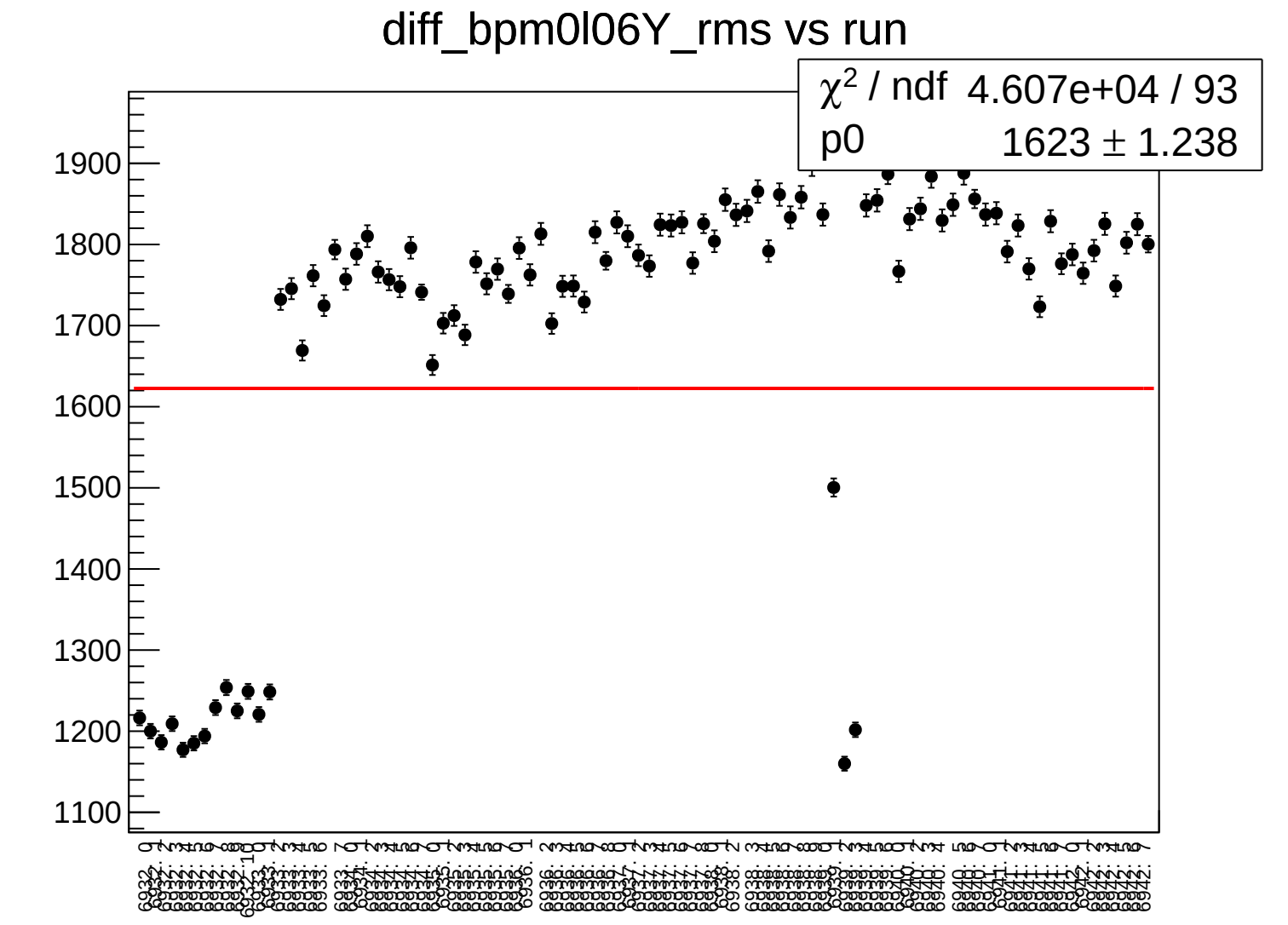

diff_bpm0l06X_mean vs run
χ² / ndf 103.5 / 93
p0 4.988 ± 6.789
200
100
0
−100
−200
pull
Entries 94
Mean 546.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

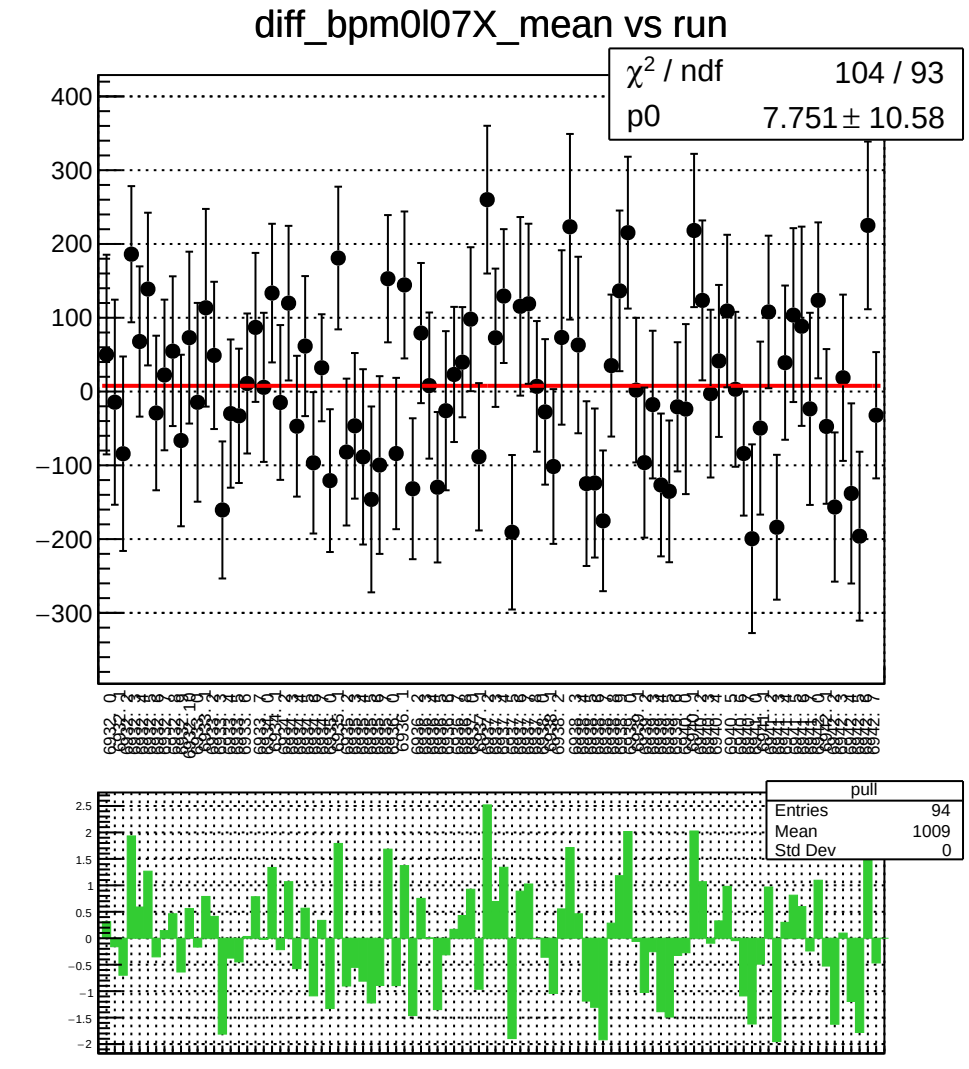

pull1D
Entries 94
Mean −0.003055
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

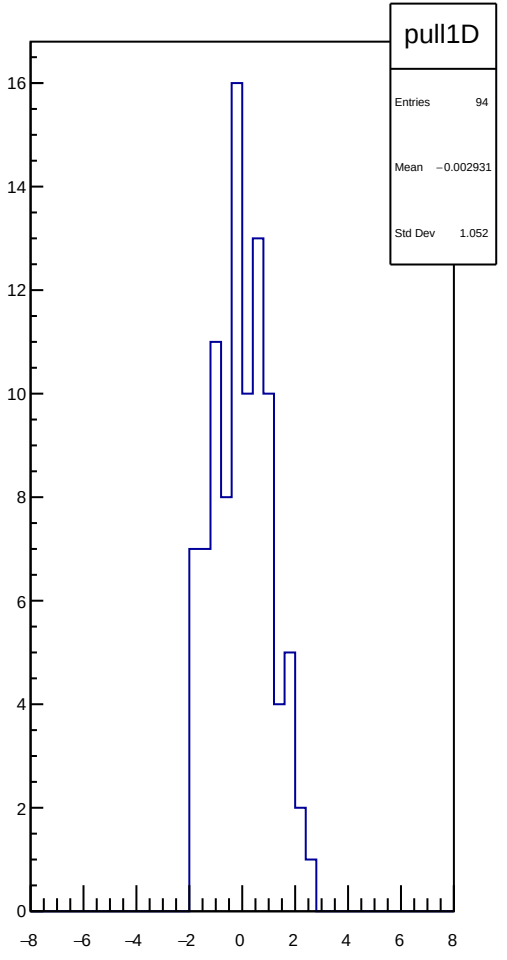

diff_bpm0l06X_rms vs run
χ² / ndf 1.711e+04 / 93
p0 6345 ± 4.801
8500
8000
7500
7000
6500
6000
5500

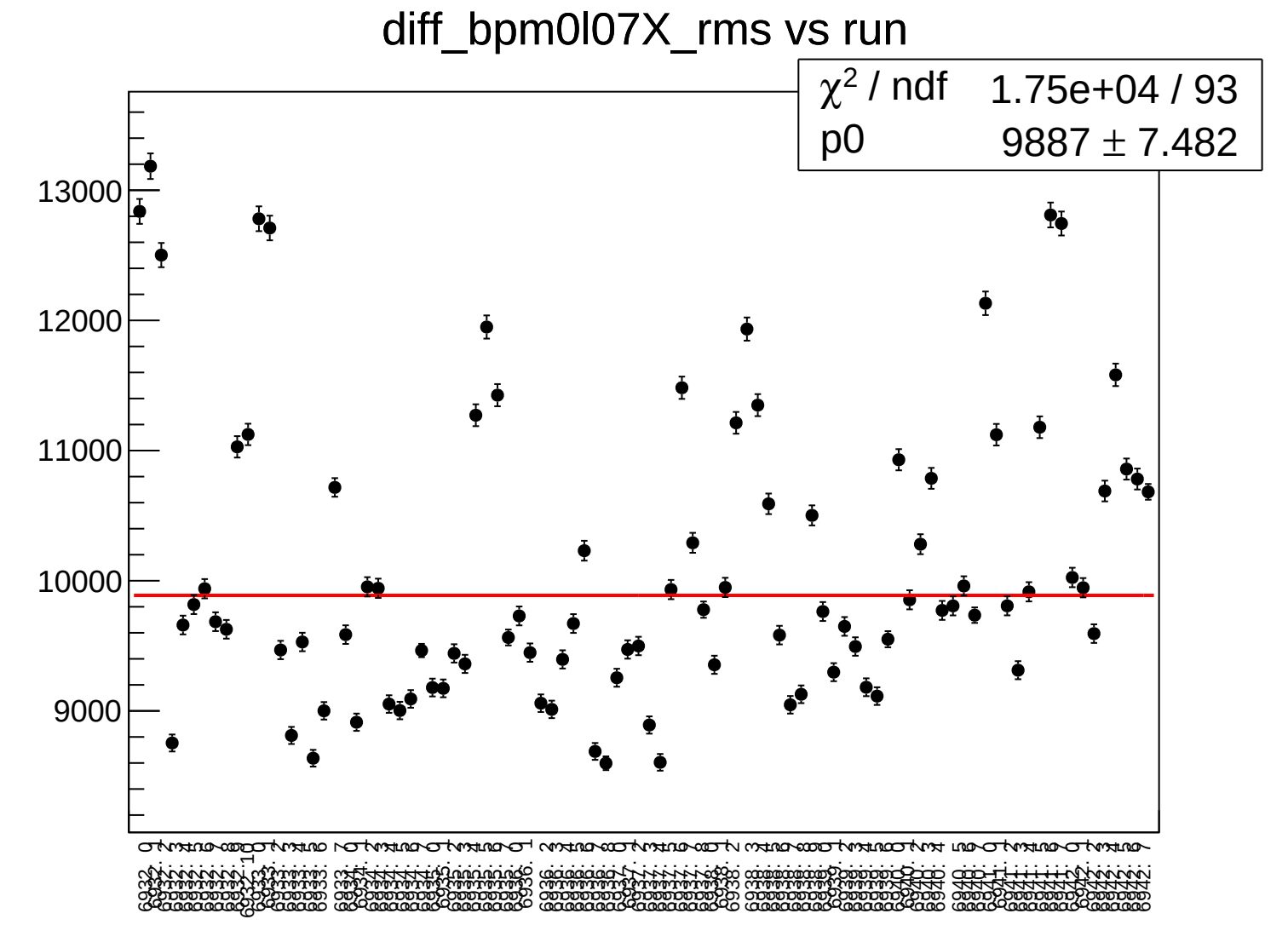

diff_bpm0l06Y_mean vs run
χ² / ndf 85.3 / 93
p0 0.729 ± 1.751
pull
Entries 94
Mean 101.5
Std Dev 0

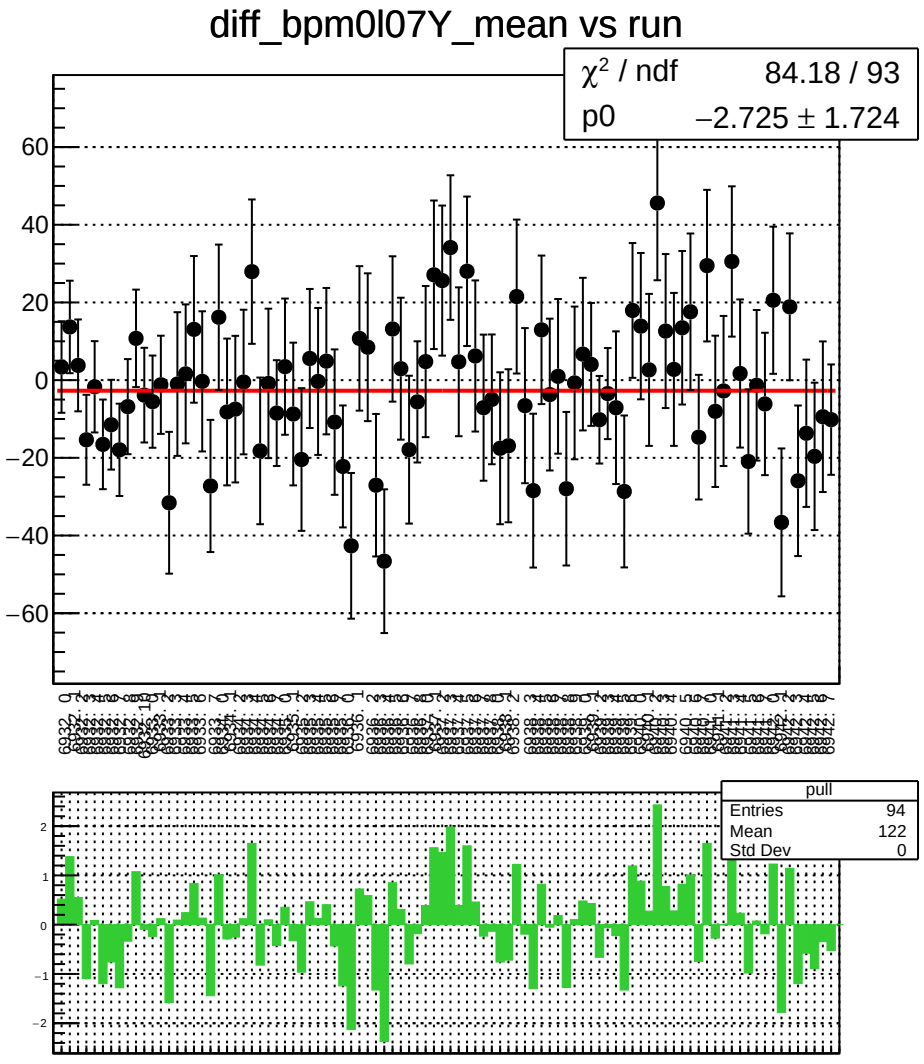

pull1D
Entries 94
Mean −0.01757
Std Dev 0.9525

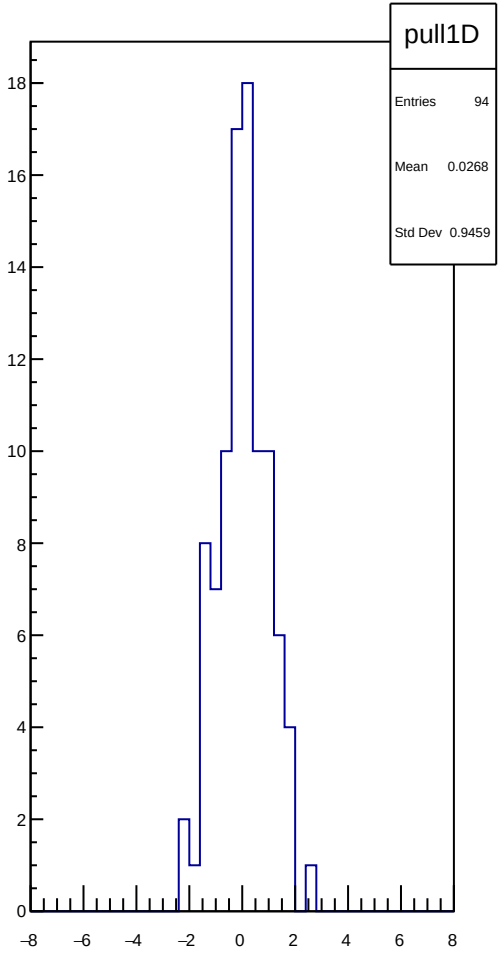

diff_bpm0l06Y_rms vs run
χ² / ndf 4.607e+04 / 93
p0 1623 ± 1.238
1900
1800
1700
1600
1500
1400
1300
1200
1100

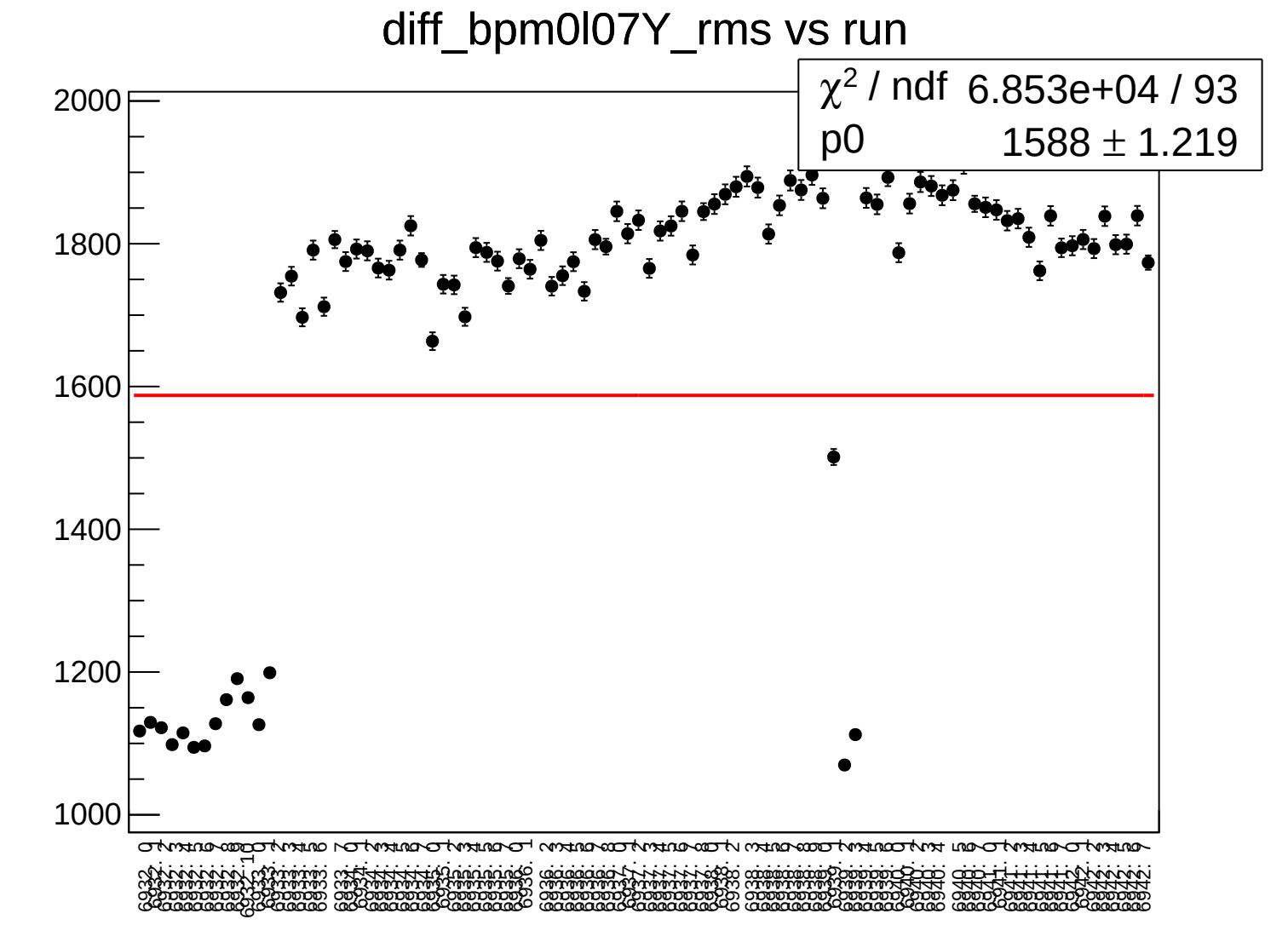

diff_bpm0l07X_mean vs run
χ² / ndf 104 / 93
p0 7.751 ± 10.58
pull
Entries 94
Mean 1009
Std Dev 0

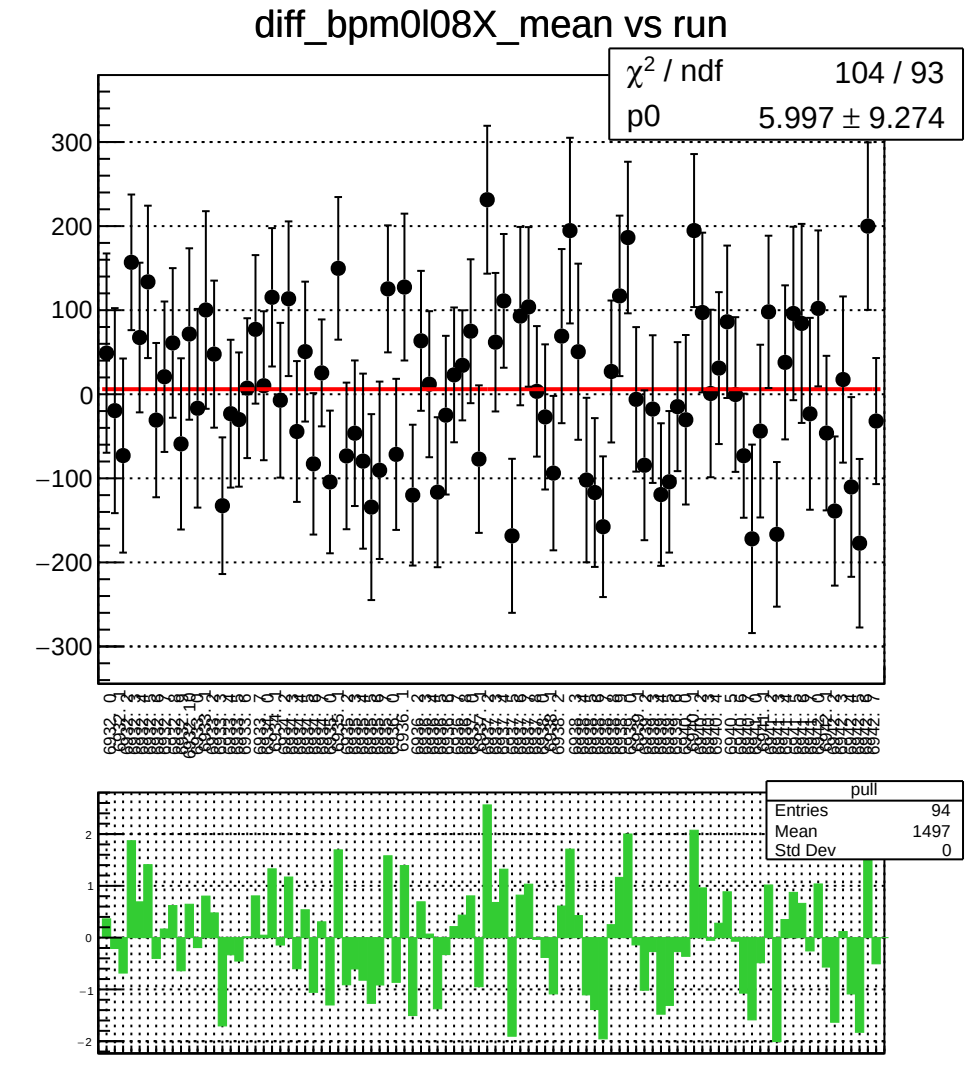

pull1D
Entries 94
Mean −0.002931
Std Dev 1.052

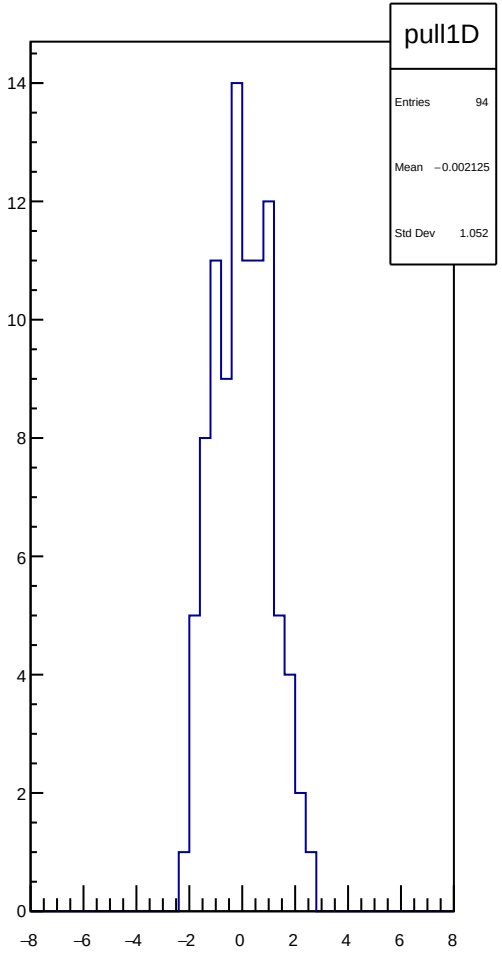

diff_bpm0l07X_rms vs run
χ² / ndf 1.75e+04 / 93
p0 9887 ± 7.482
13000
12000
11000
10000
9000

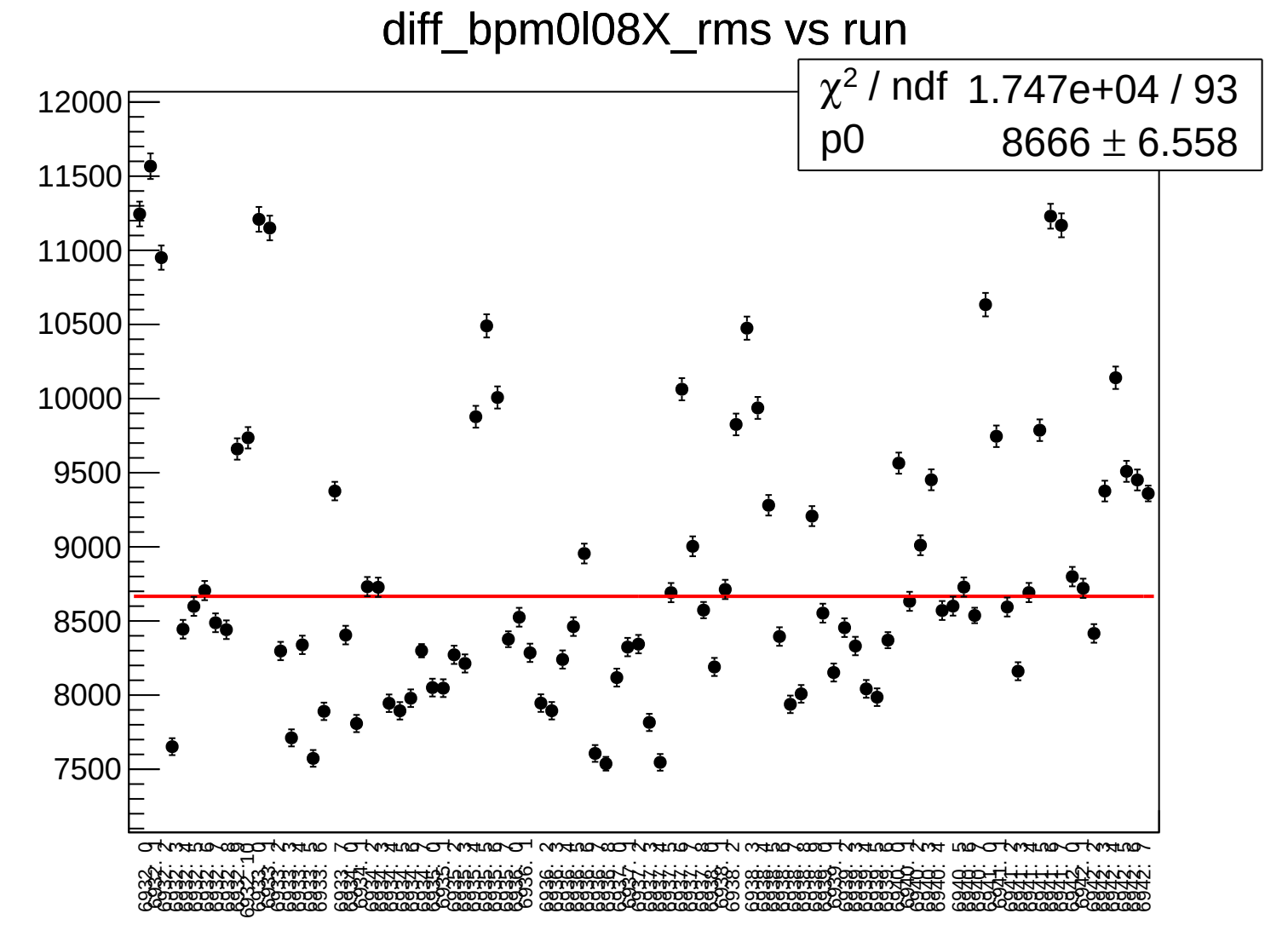

diff_bpm0l07Y_mean vs run
χ² / ndf 84.18 / 93
p0 −2.725 ± 1.724
pull
Entries 94
Mean 122
Std Dev 0

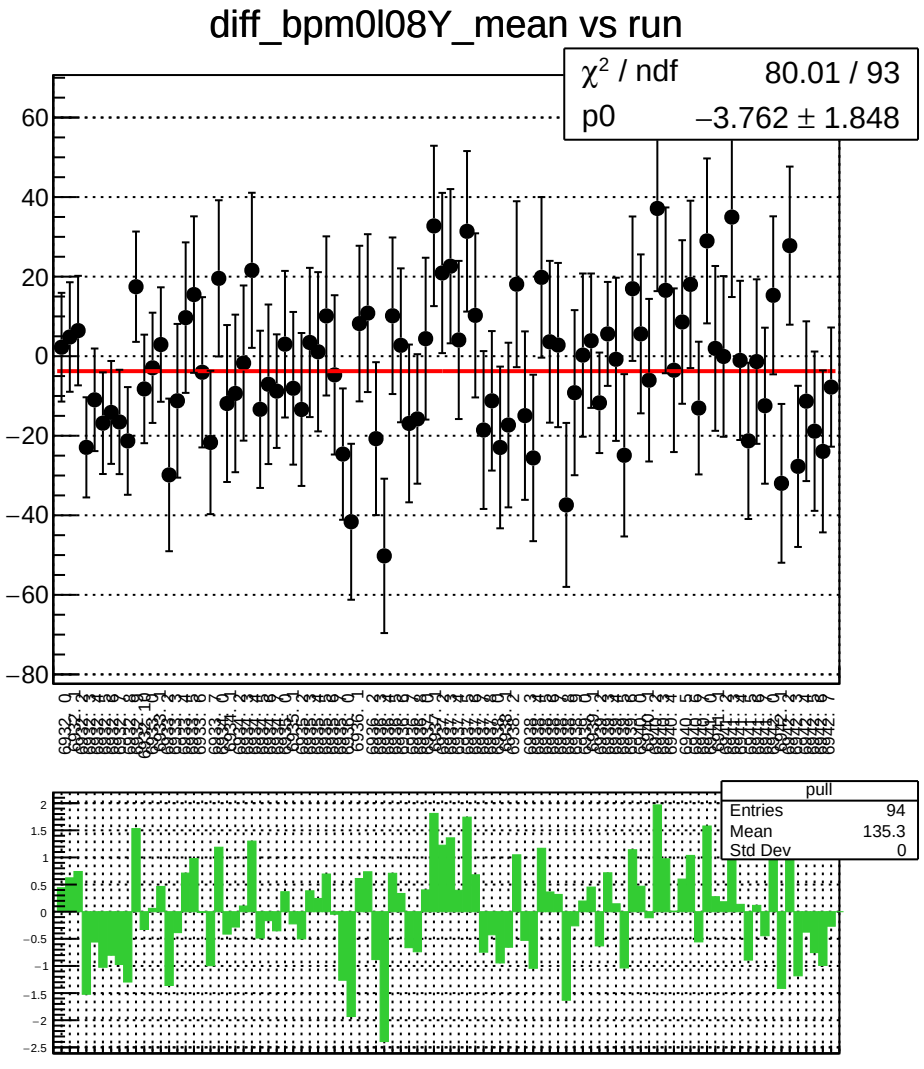

pull1D
Entries 94
Mean 0.0268
Std Dev 0.9459

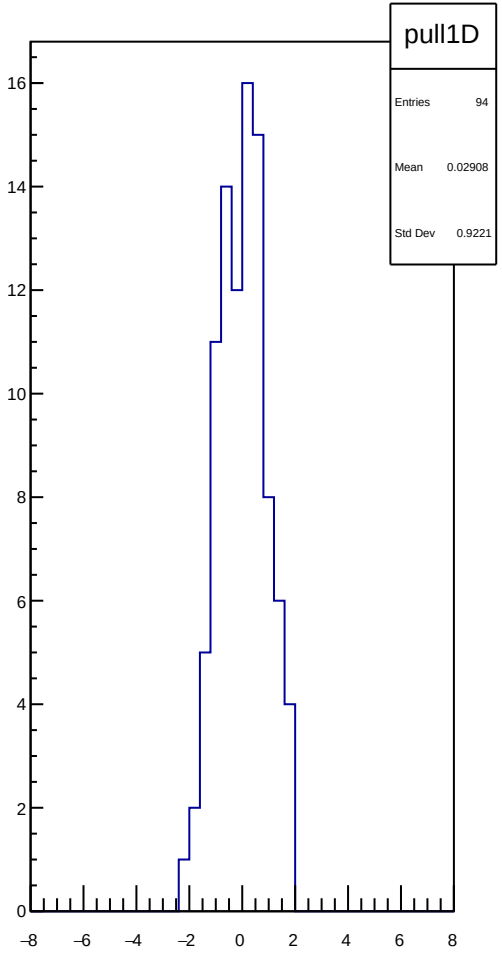

diff_bpm0l07Y_rms vs run
χ² / ndf 6.853e+04 / 93
p0 1588 ± 1.219
2000
1800
1600
1400
1200
1000

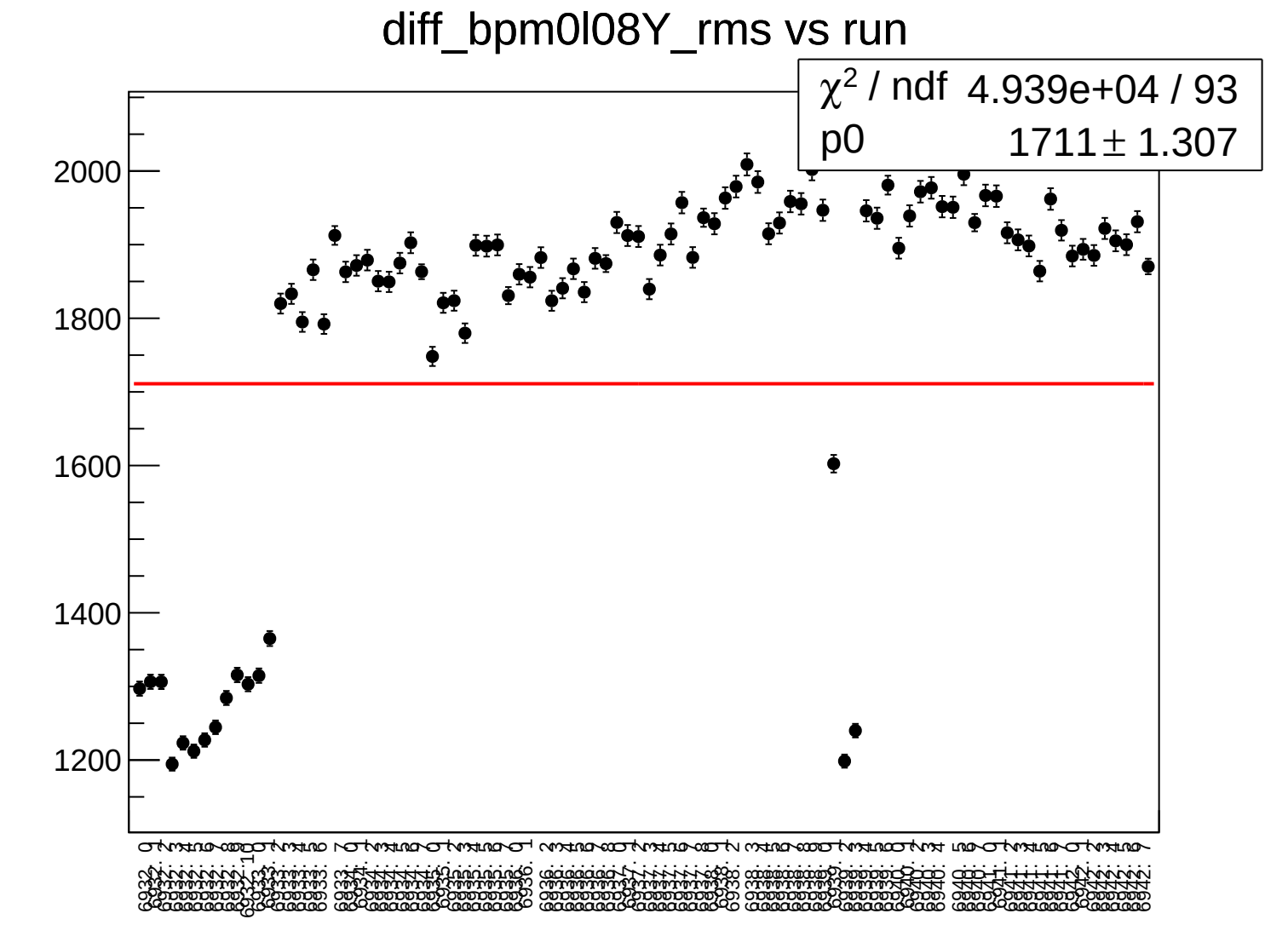

diff_bpm0l08X_mean vs run
χ² / ndf 104 / 93
p0 5.997 ± 9.274
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 1497
Std Dev 0
2
1
0
−1
−2

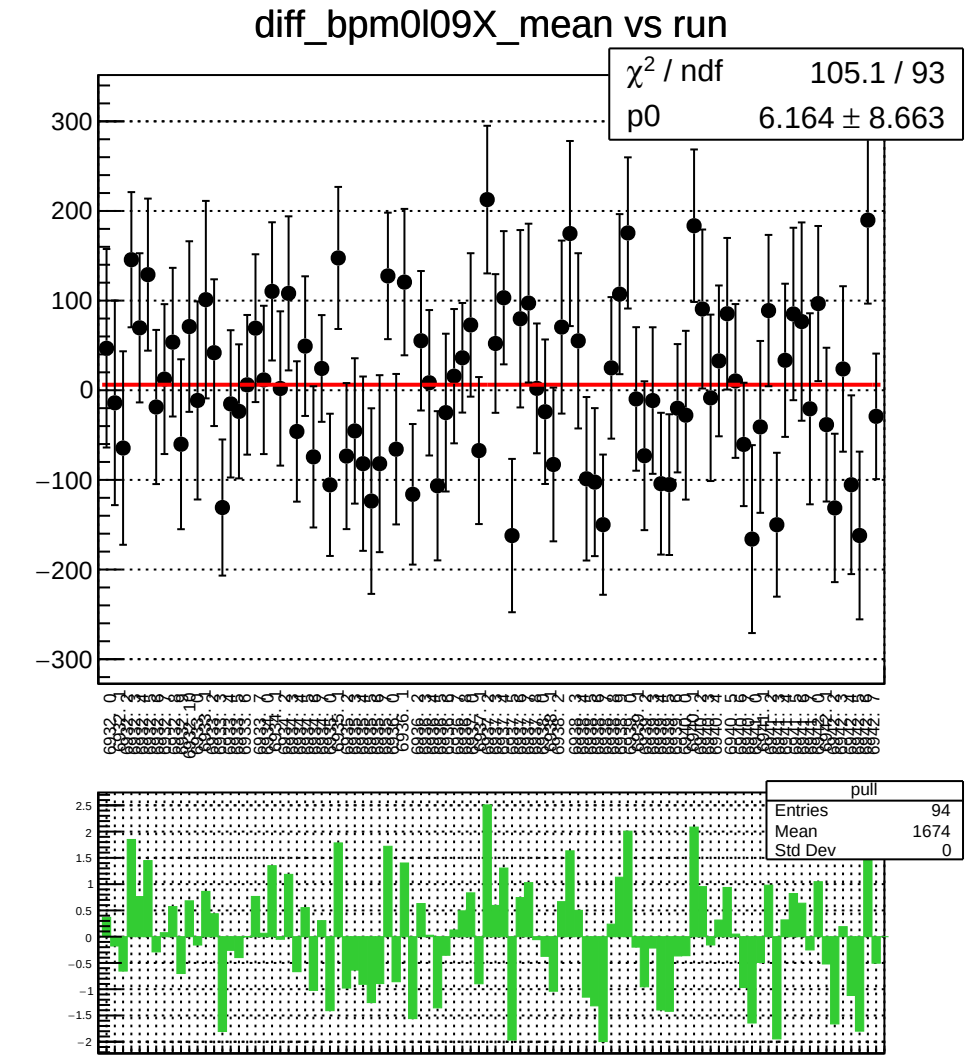

pull1D
Entries 94
Mean −0.002125
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

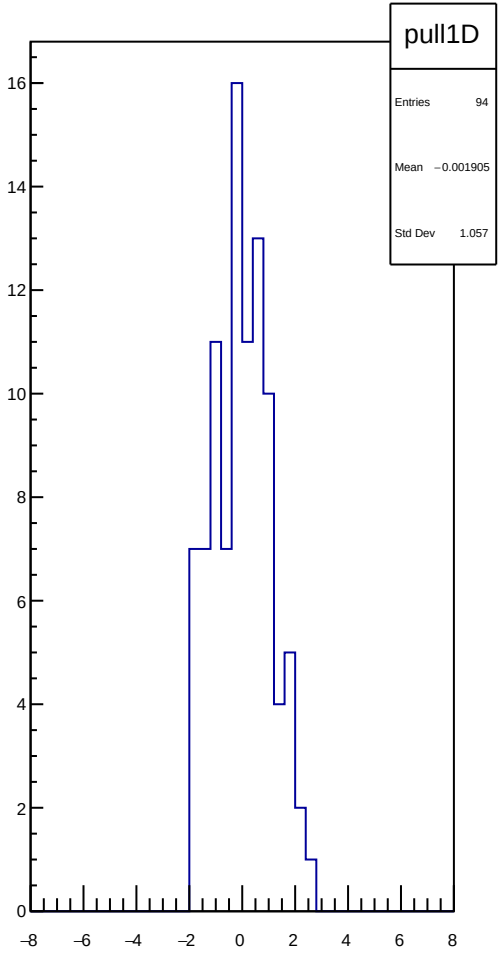

diff_bpm0l08X_rms vs run
χ² / ndf 1.747e+04 / 93
p0 8666 ± 6.558
12000
11500
11000
10500
10000
9500
9000
8500
8000
7500

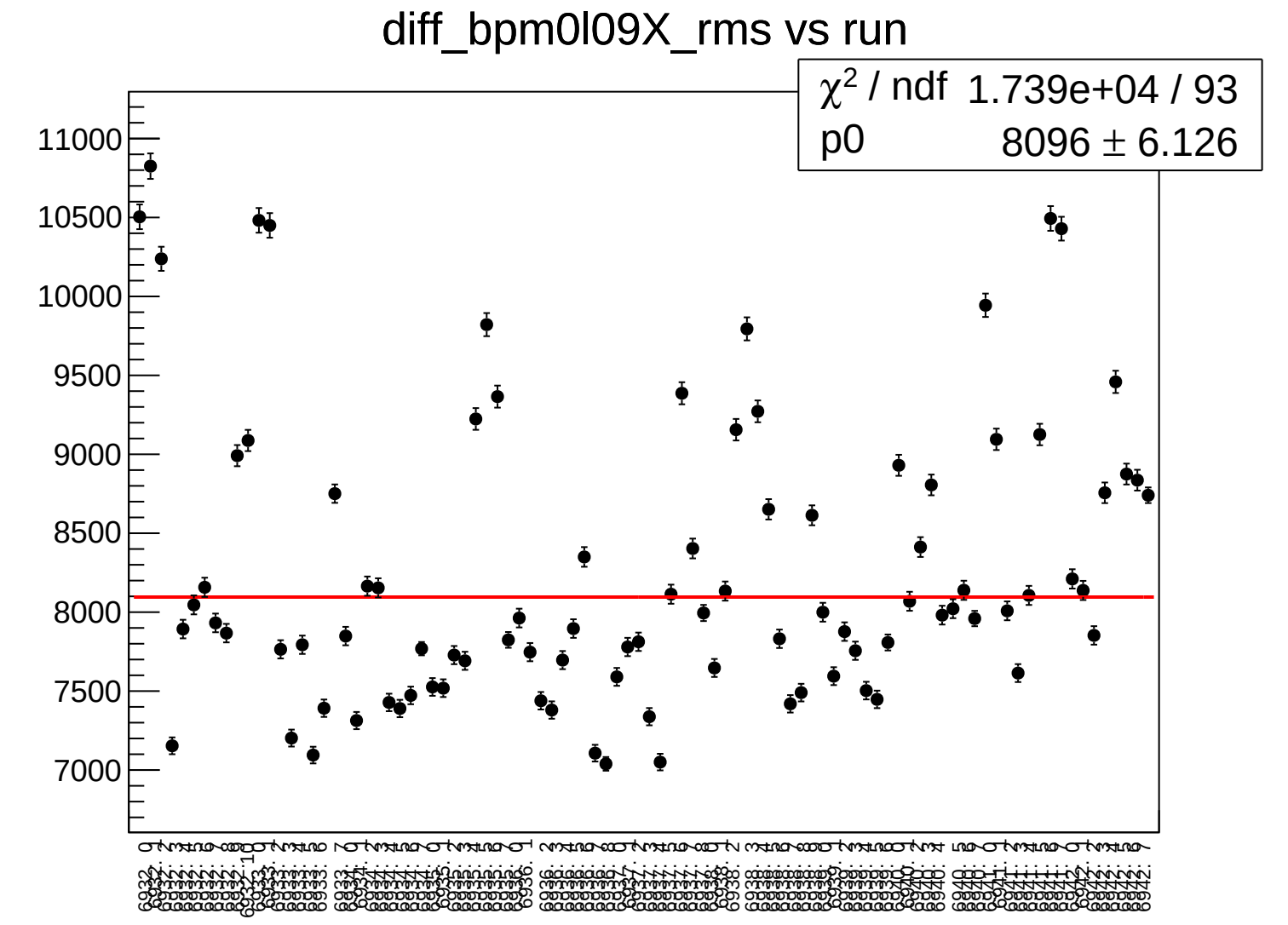

diff_bpm0l08Y_mean vs run
χ² / ndf 80.01 / 93
p0 −3.762 ± 1.848
pull
Entries 94
Mean 135.3
Std Dev 0

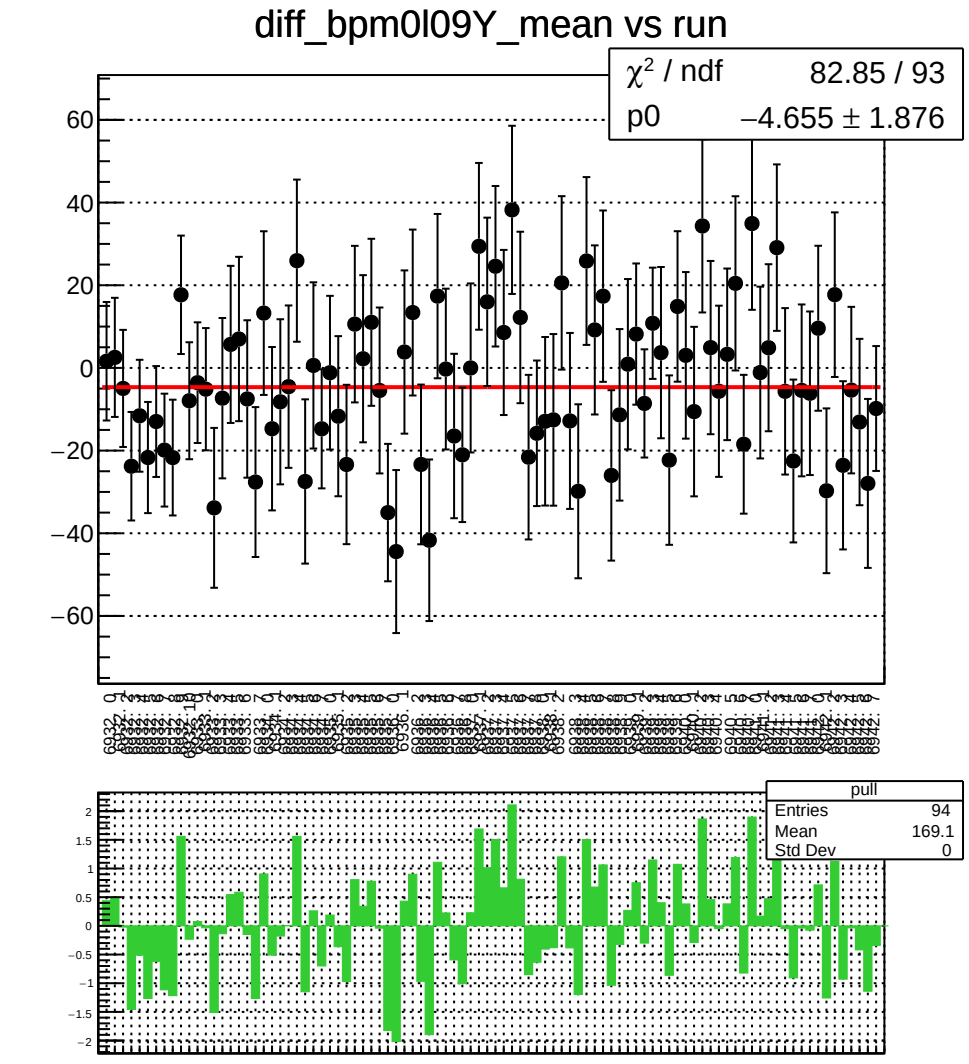

pull1D
Entries 94
Mean 0.02908
Std Dev 0.9221

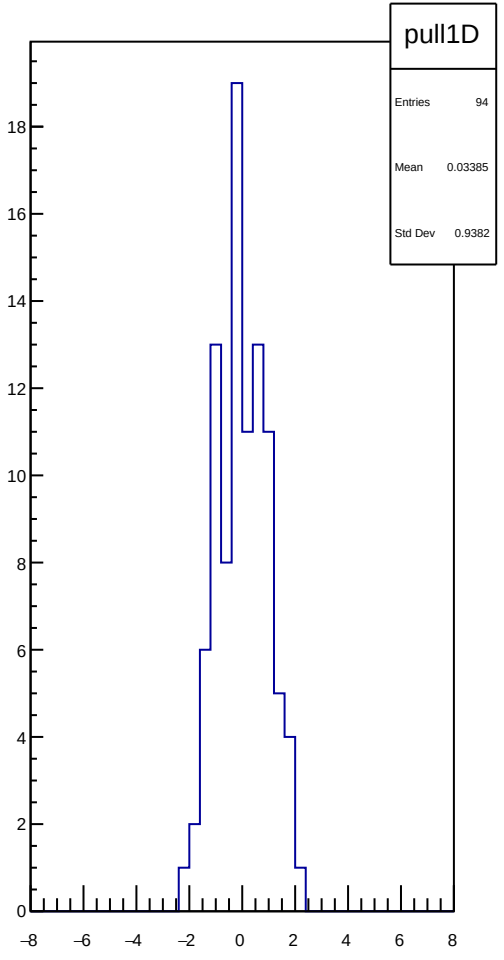

diff_bpm0l08Y_rms vs run
χ² / ndf 4.939e+04 / 93
p0 1711 ± 1.307
2000
1800
1600
1400
1200

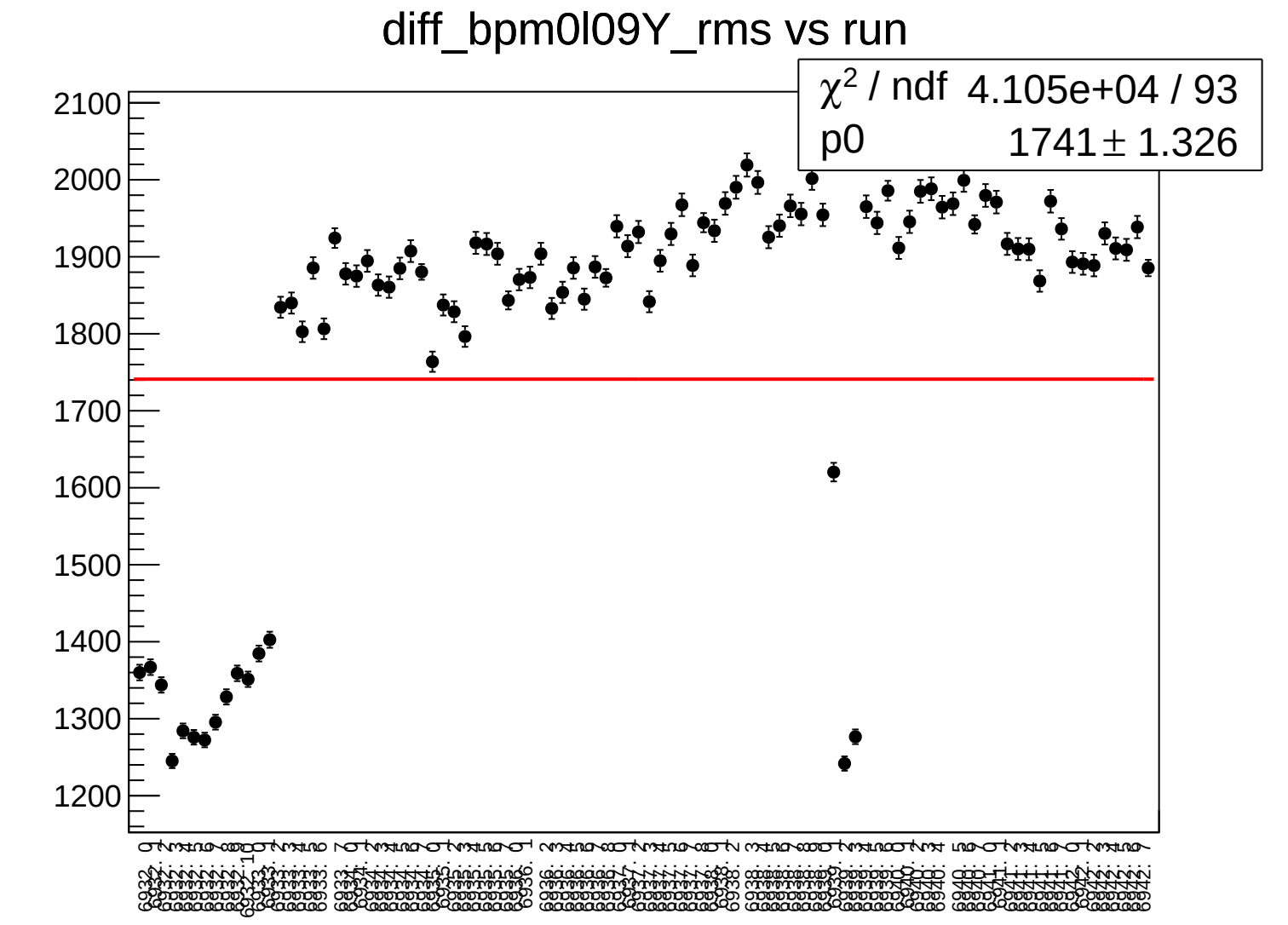

diff_bpm0l09X_mean vs run
χ² / ndf 105.1 / 93
p0 6.164 ± 8.663
pull
Entries 94
Mean 1674
Std Dev 0

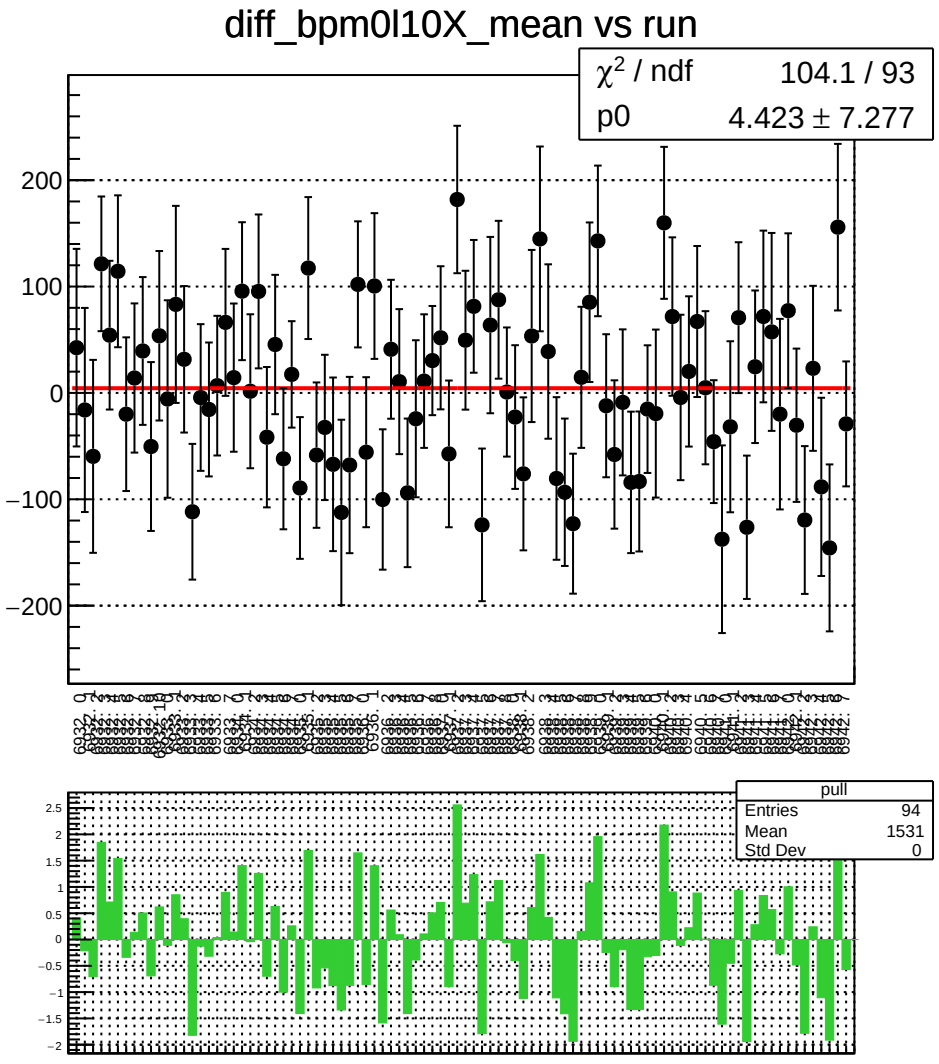

pull1D
Entries 94
Mean −0.001905
Std Dev 1.057

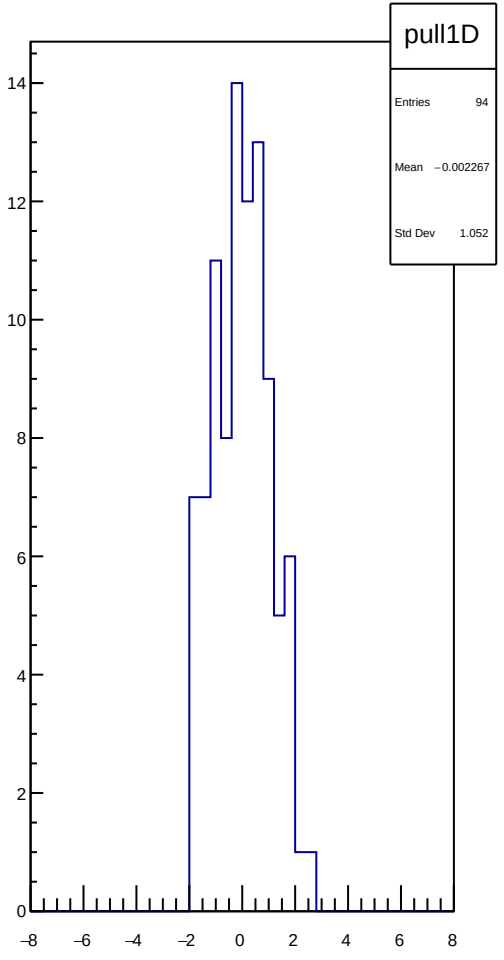

diff_bpm0l09X_rms vs run
χ² / ndf 1.739e+04 / 93
p0 8096 ± 6.126
11000
10500
10000
9500
9000
8500
8000
7500
7000

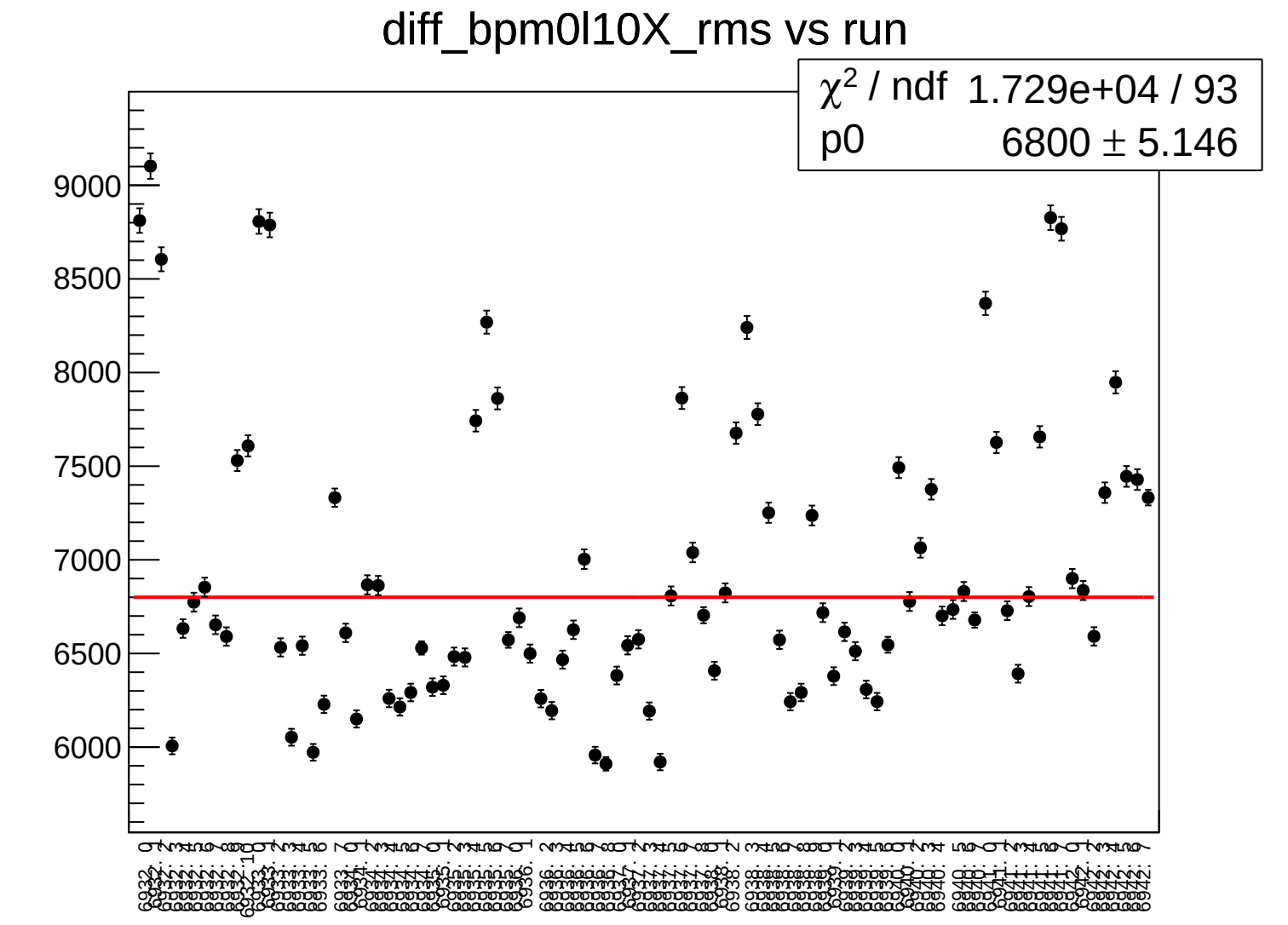

diff_bpm0l09Y_mean vs run
χ² / ndf 82.85 / 93
p0 −4.655 ± 1.876
pull
Entries 94
Mean 169.1
Std Dev 0

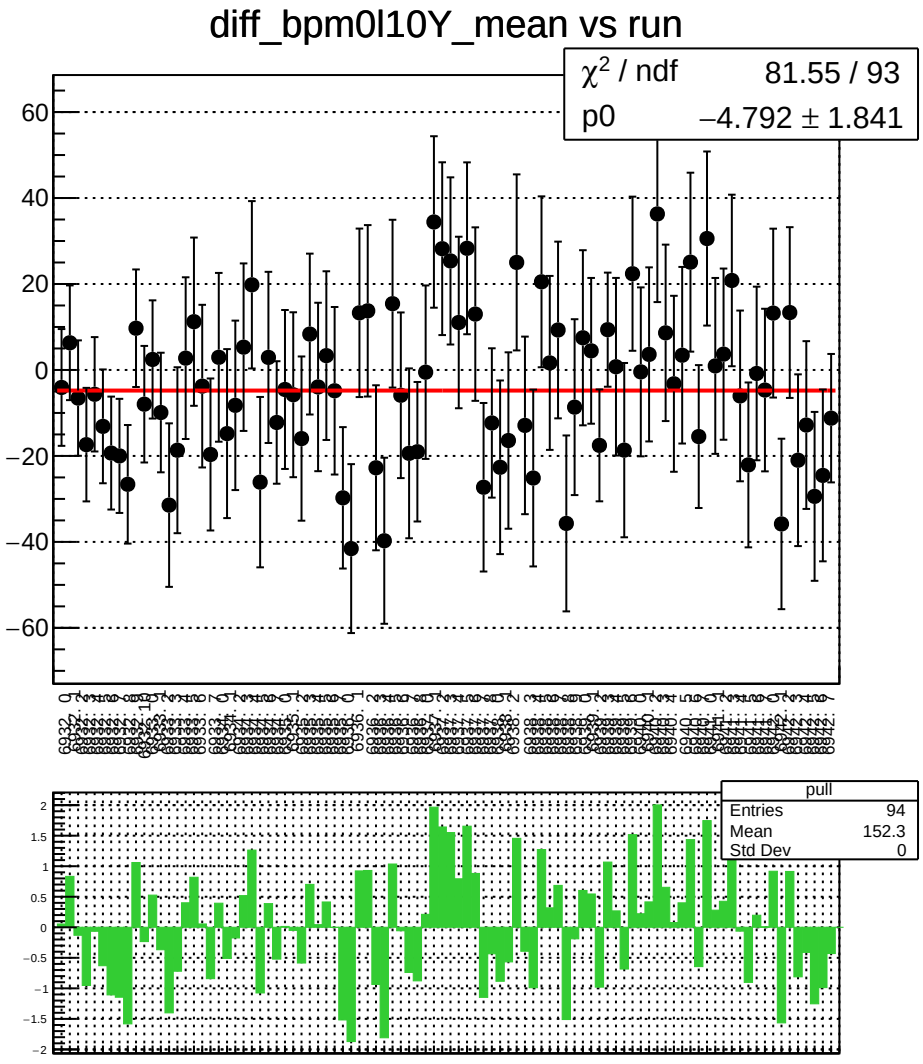

pull1D
Entries 94
Mean 0.03385
Std Dev 0.9382

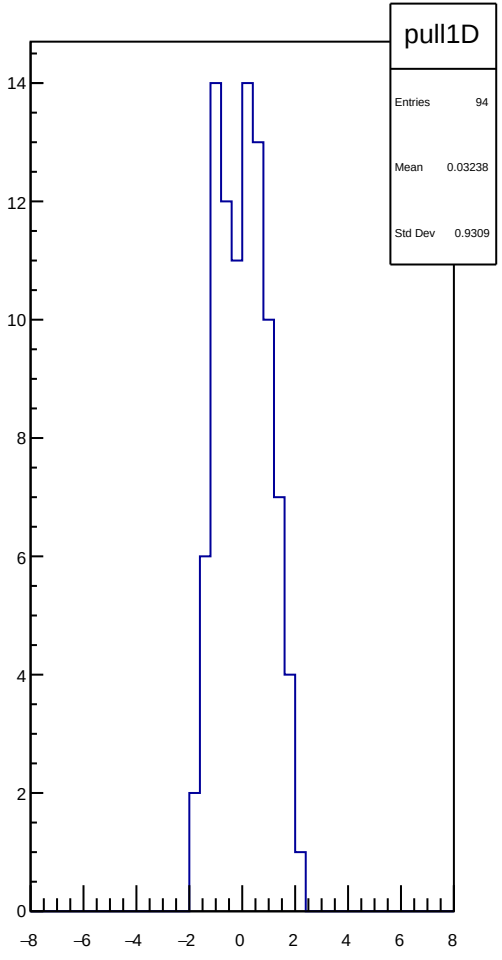

diff_bpm0l09Y_rms vs run
χ² / ndf 4.105e+04 / 93
p0 1741 ± 1.326
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200

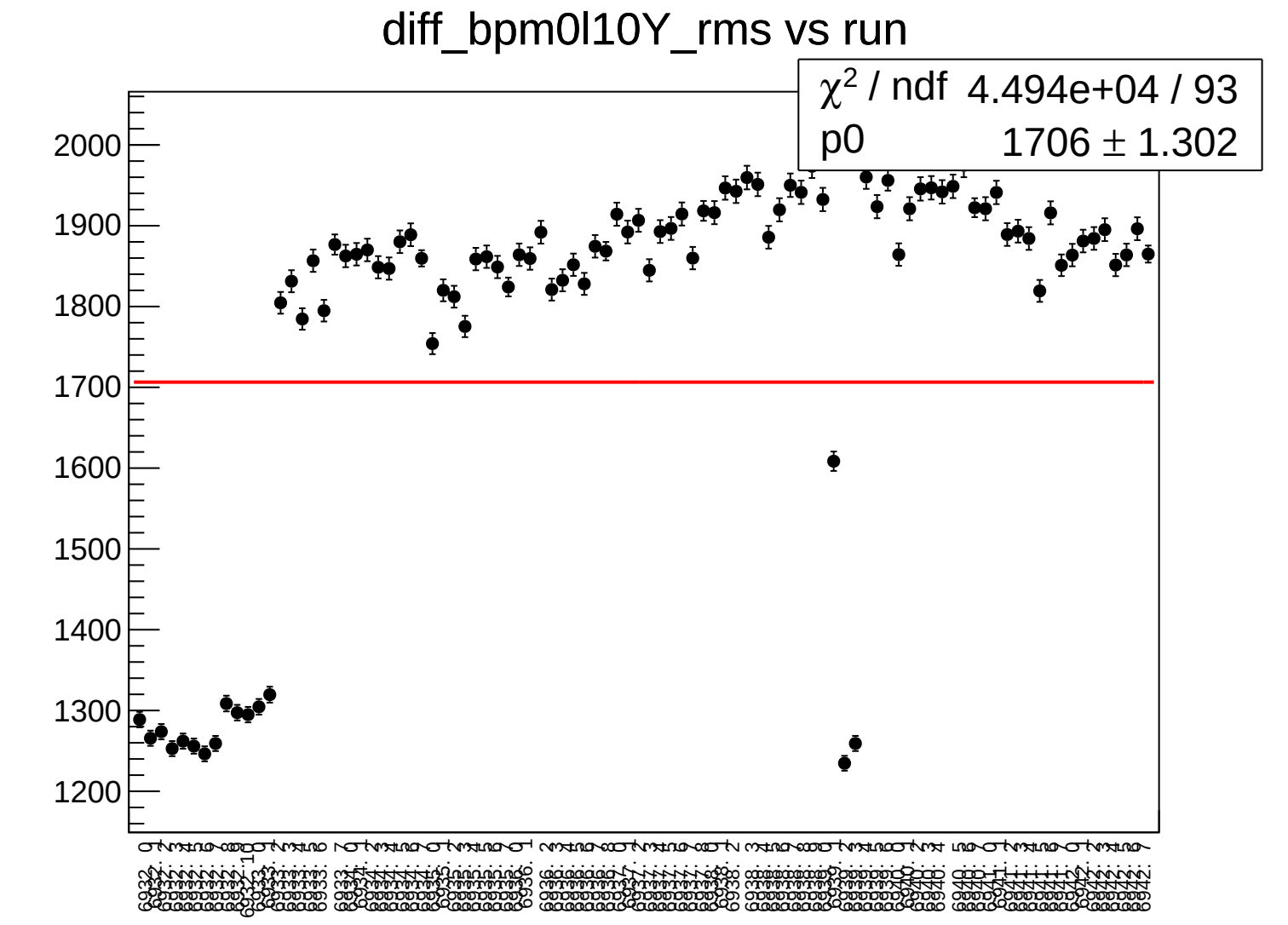

diff_bpm0l10X_mean vs run
χ² / ndf 104.1 / 93
p0 4.423 ± 7.277
200
100
0
−100
−200
pull
Entries 94
Mean 1531
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

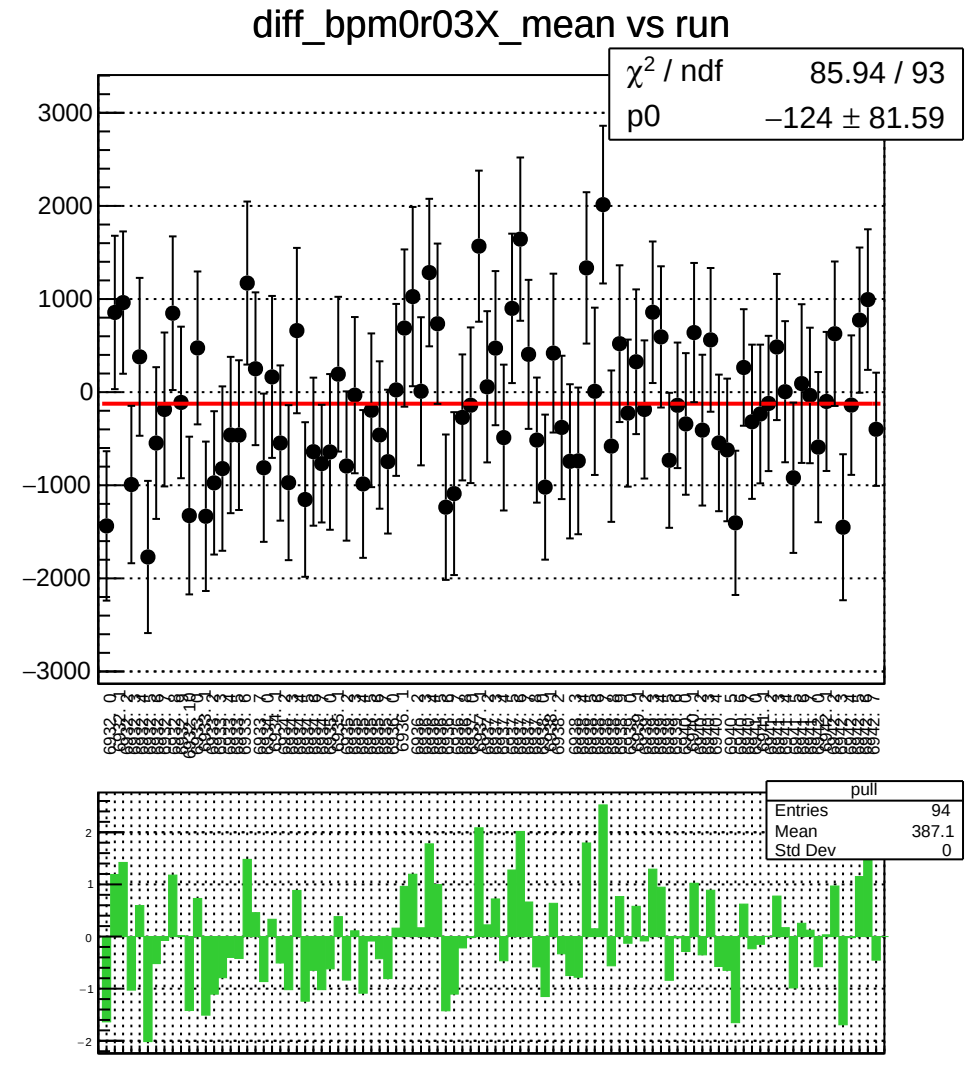

pull1D
Entries 94
Mean −0.002267
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

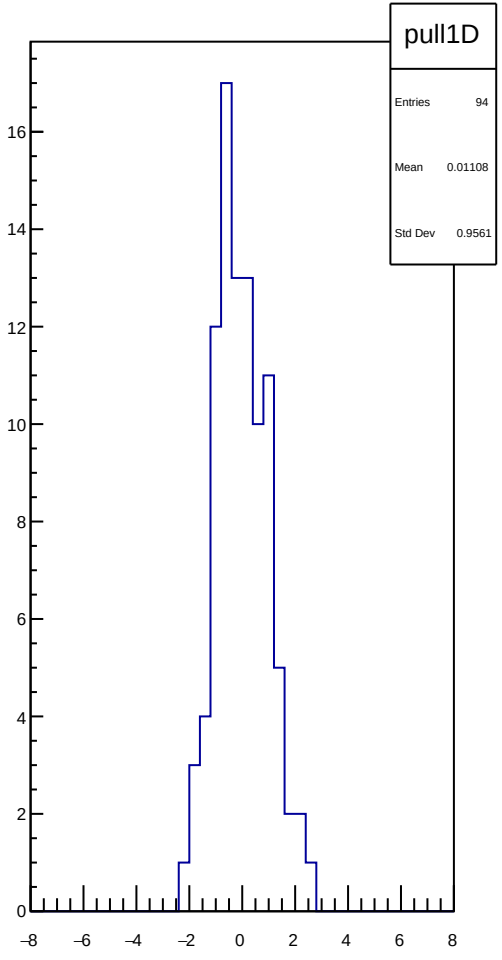

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.729e+04 / 93
p0 6800 ± 5.146
9000
8500
8000
7500
7000
6500
6000

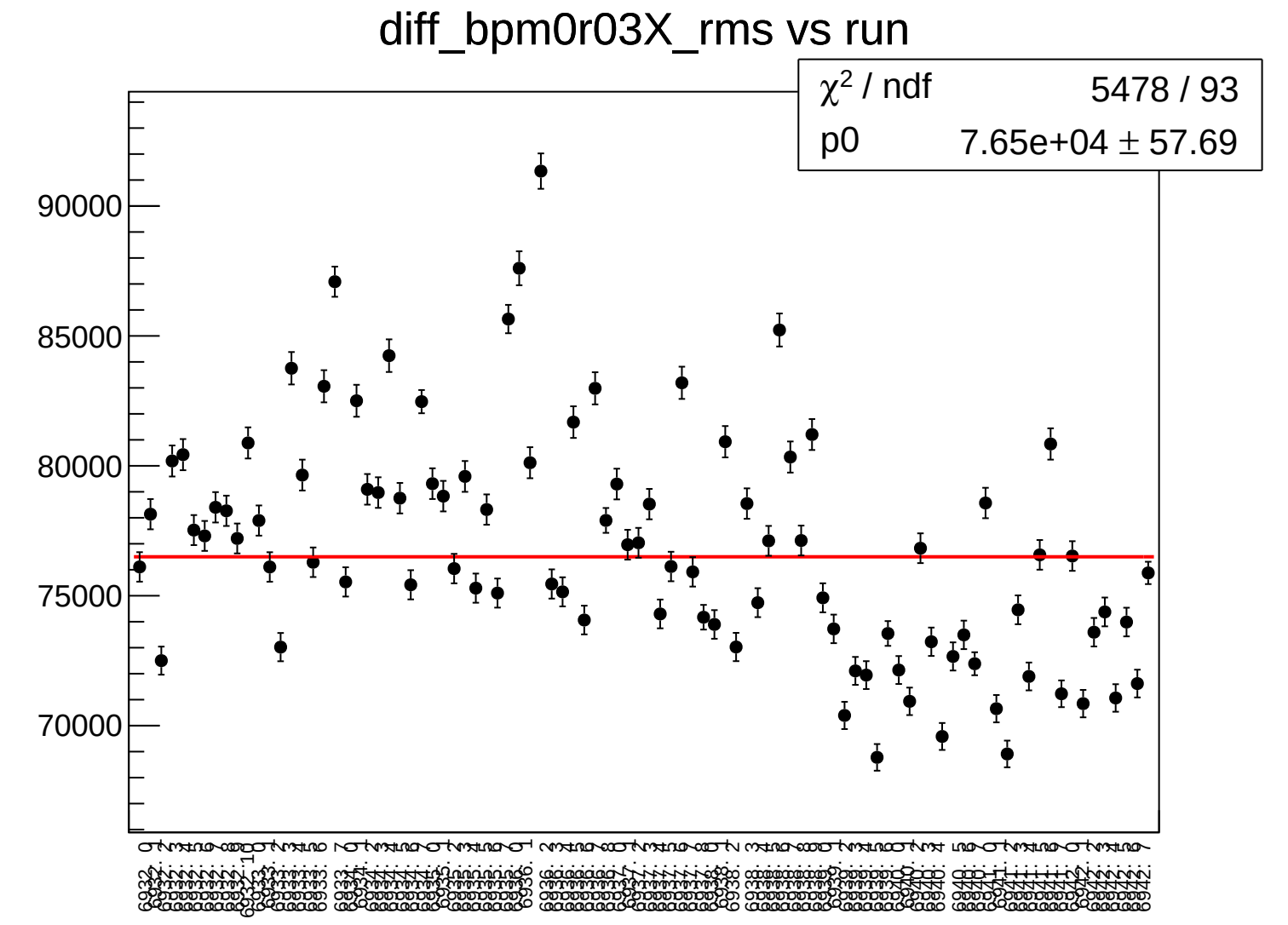

diff_bpm0l10Y_mean vs run
χ² / ndf 81.55 / 93
p0 −4.792 ± 1.841
pull
Entries 94
Mean 152.3
Std Dev 0

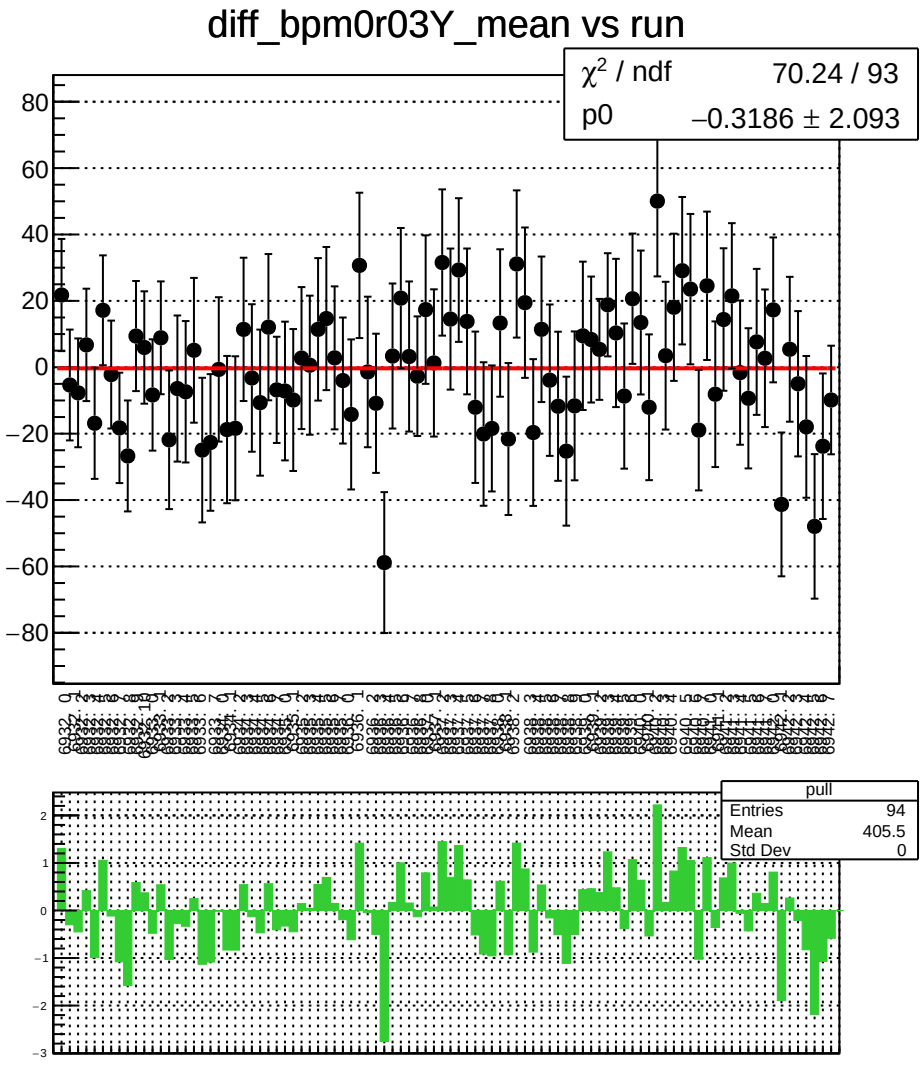

pull1D
Entries 94
Mean 0.03238
Std Dev 0.9309

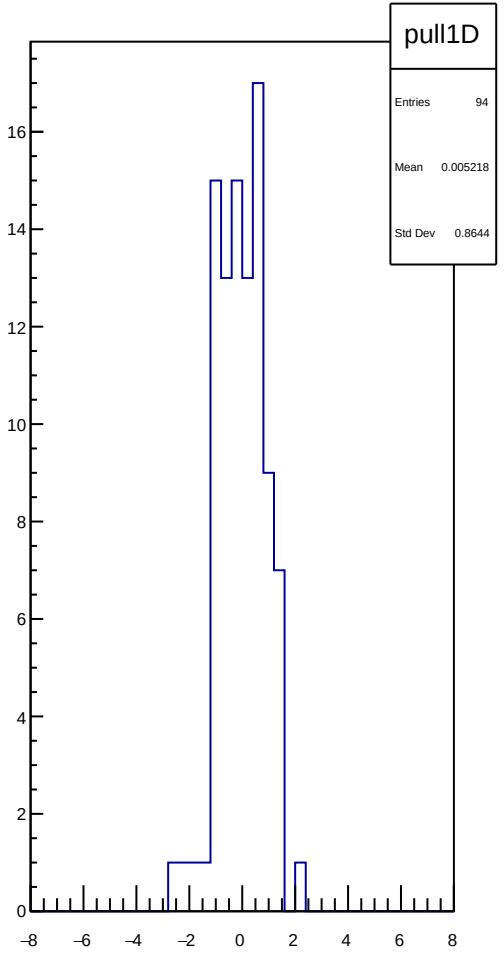

diff_bpm0l10Y_rms vs run
χ² / ndf 4.494e+04 / 93
p0 1706 ± 1.302
2000
1900
1800
1700
1600
1500
1400
1300
1200

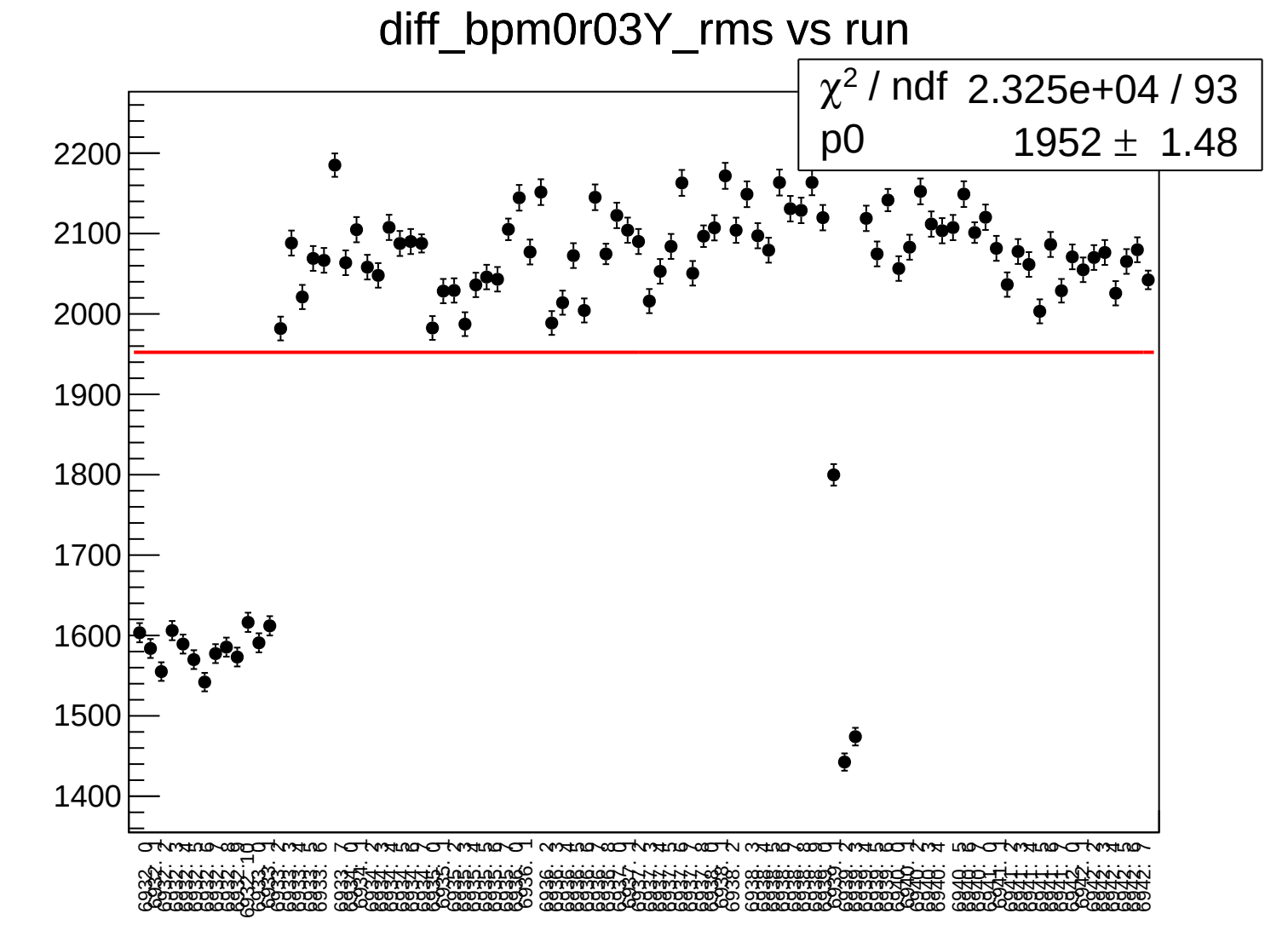

diff_bpm0r03X_mean vs run
χ² / ndf 85.94 / 93
p0 −124 ± 81.59
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 387.1
Std Dev 0
2
1
0
−1
−2

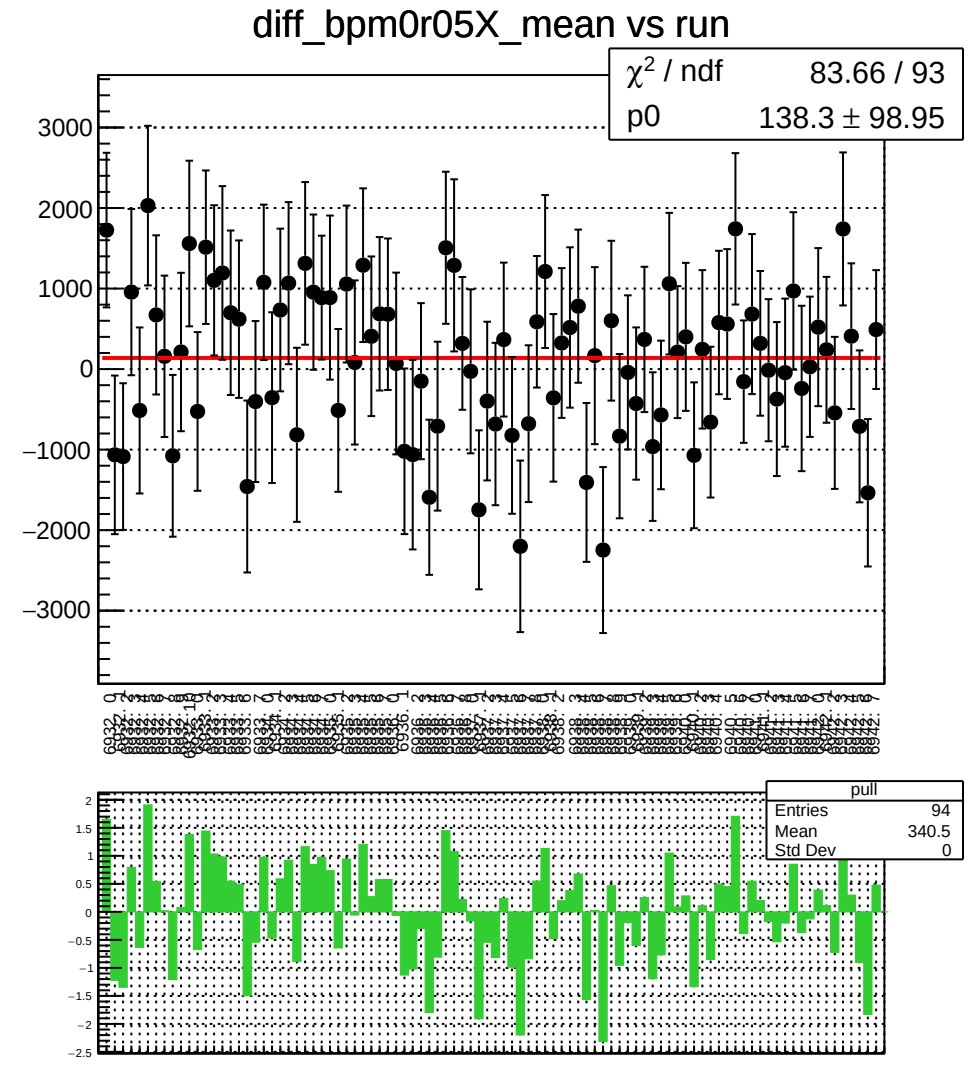

pull1D
Entries 94
Mean 0.01108
Std Dev 0.9561
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

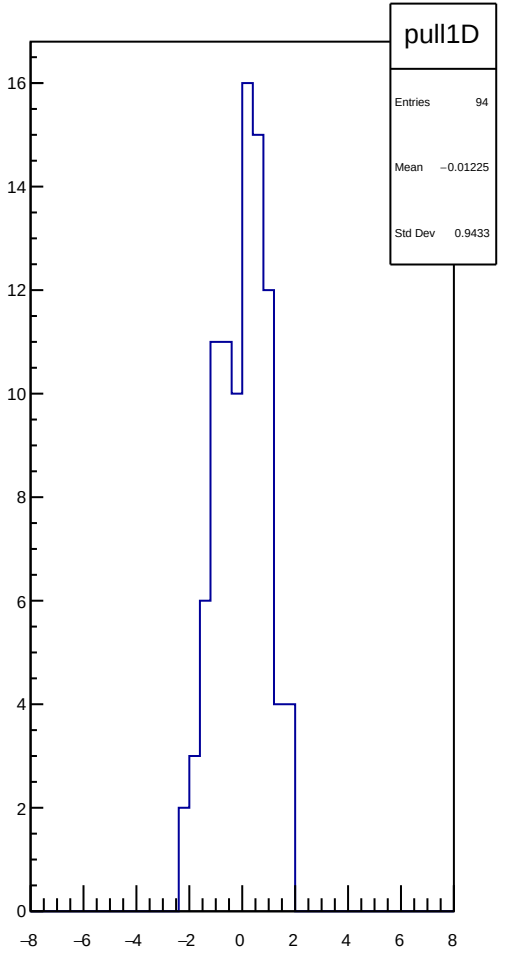

diff_bpm0r03X_rms vs run
χ² / ndf 5478 / 93
p0 7.65e+04 ± 57.69
90000
85000
80000
75000
70000

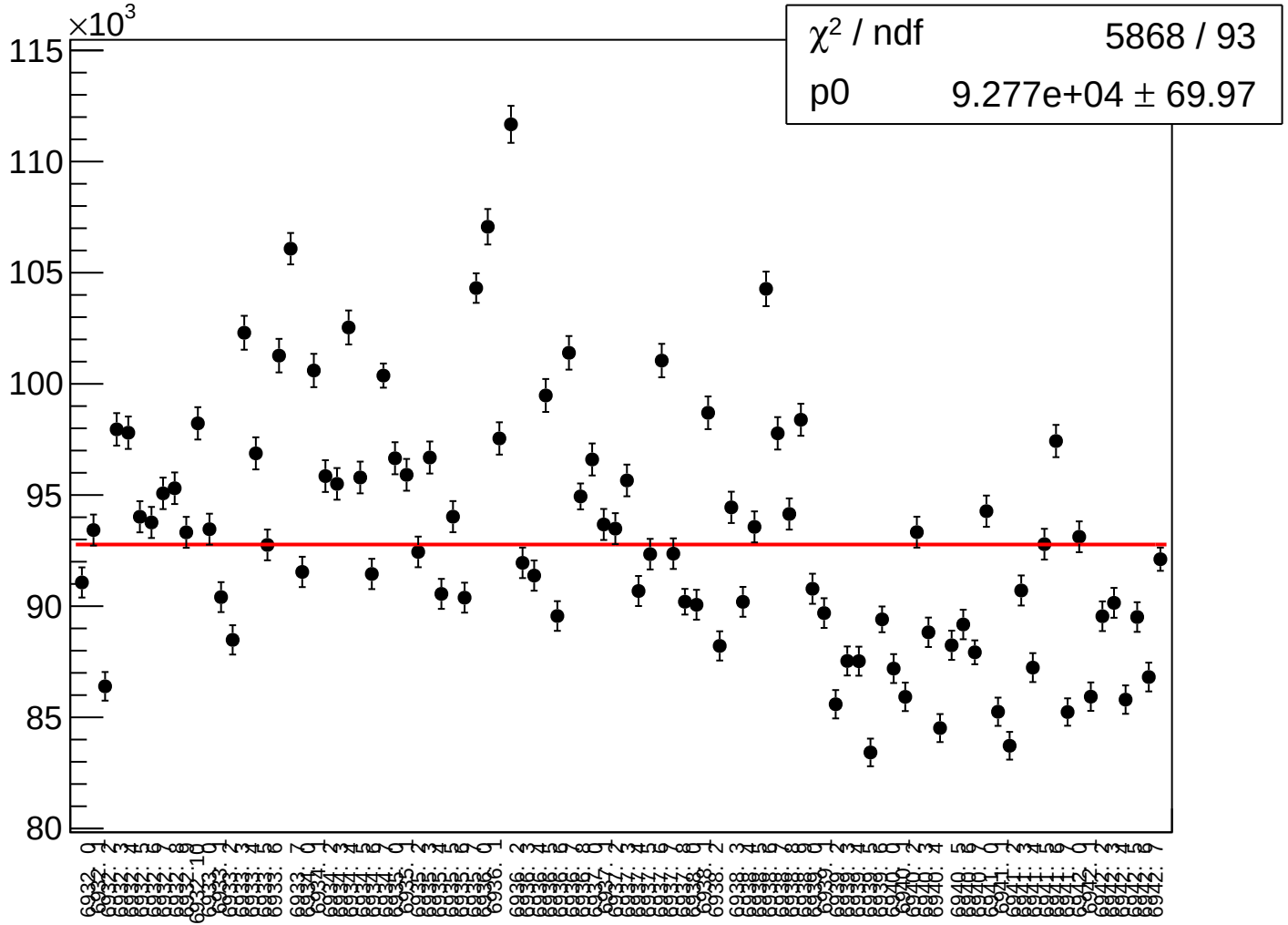

diff_bpm0r03Y_mean vs run
χ² / ndf 70.24 / 93
p0 −0.3186 ± 2.093
pull
Entries 94
Mean 405.5
Std Dev 0

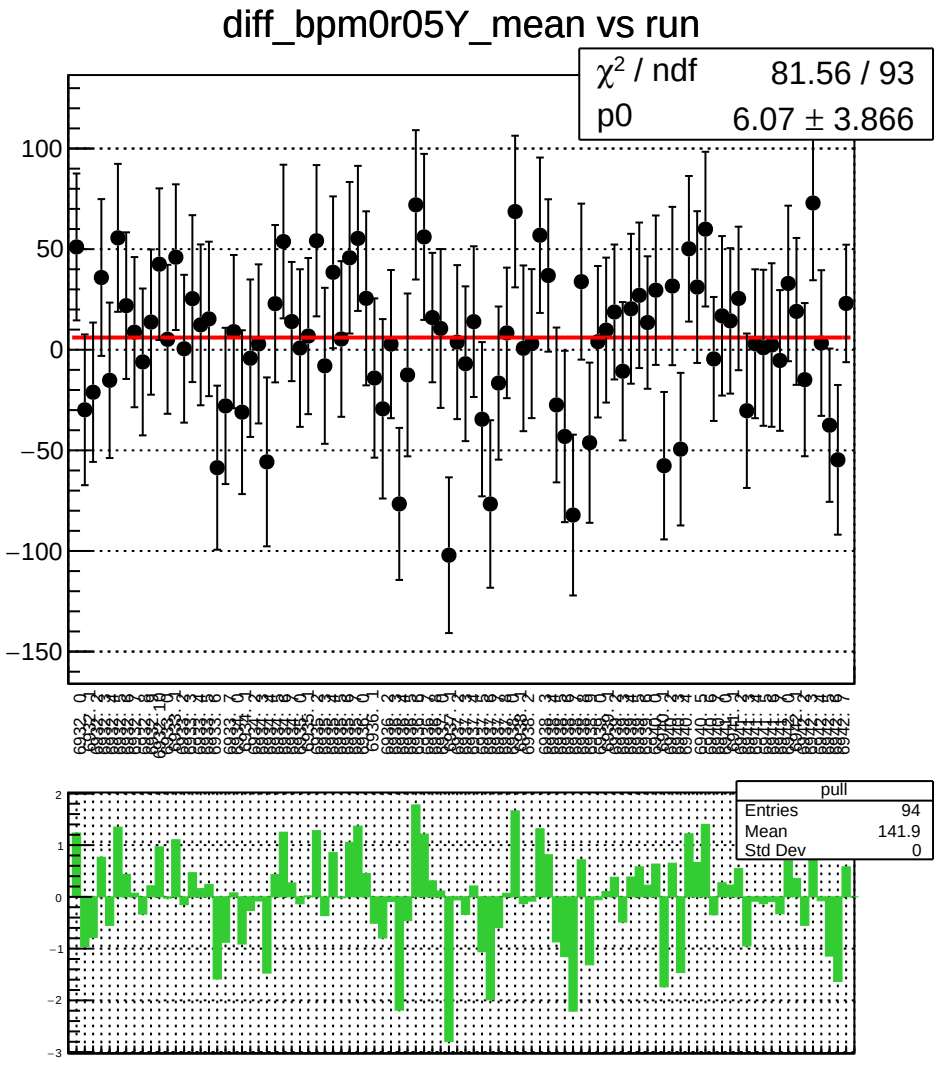

pull1D
Entries 94
Mean 0.005218
Std Dev 0.8644

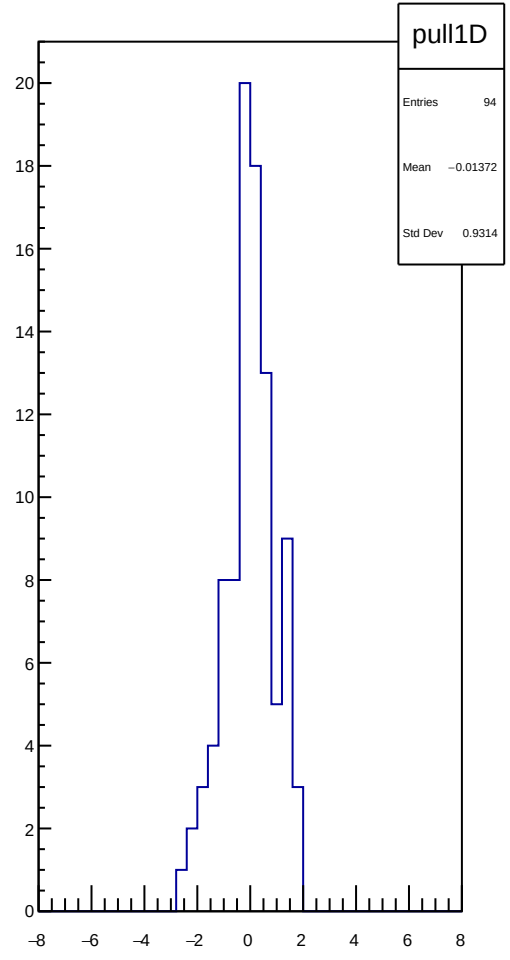

diff_bpm0r03Y_rms vs run
χ² / ndf 2.325e+04 / 93
p0 1952 ± 1.48
2200
2100
2000
1900
1800
1700
1600
1500
1400

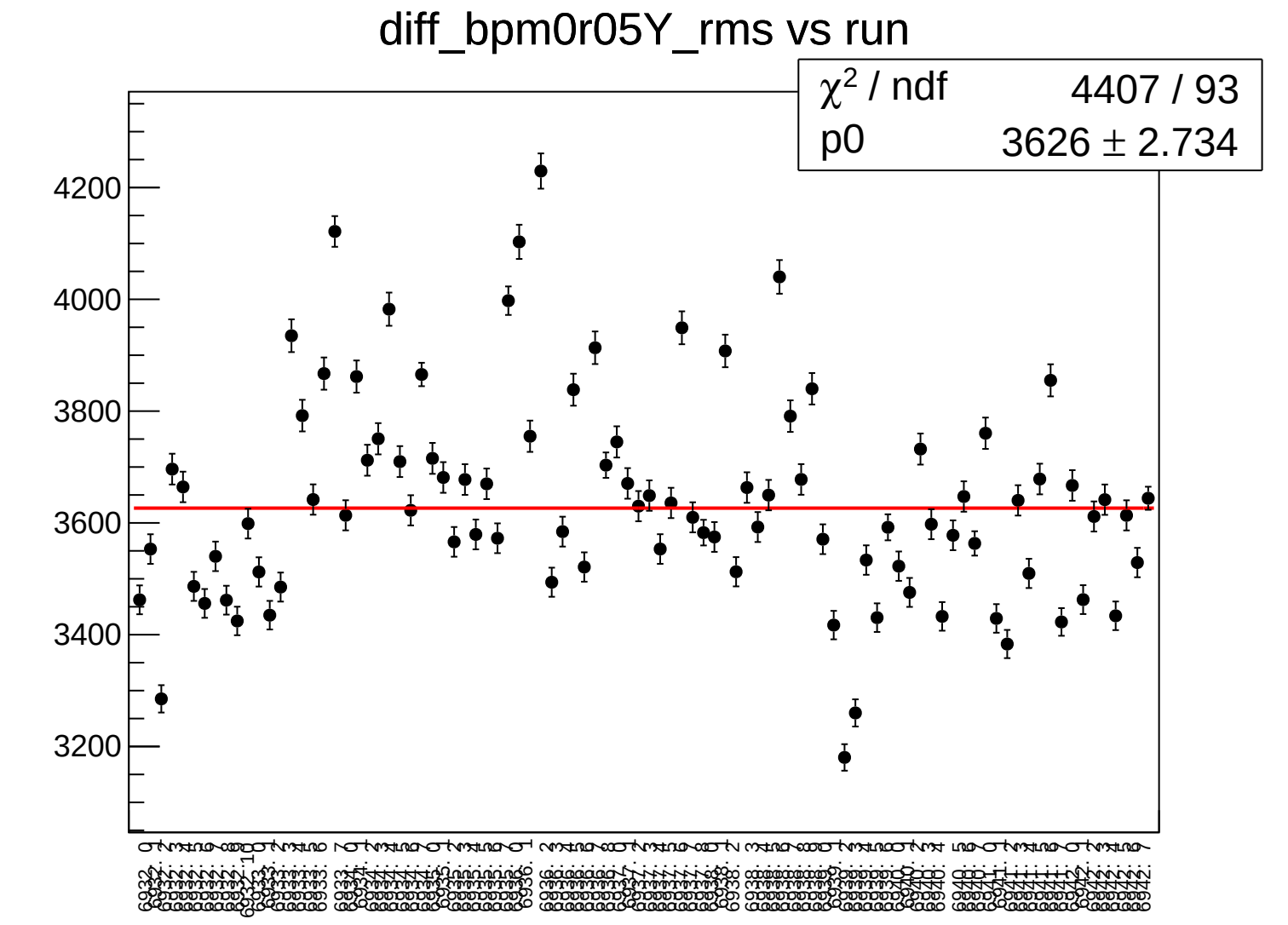

diff_bpm0r05X_mean vs run
χ² / ndf 83.66 / 93
p0 138.3 ± 98.95
pull
Entries 94
Mean 340.5
Std Dev 0

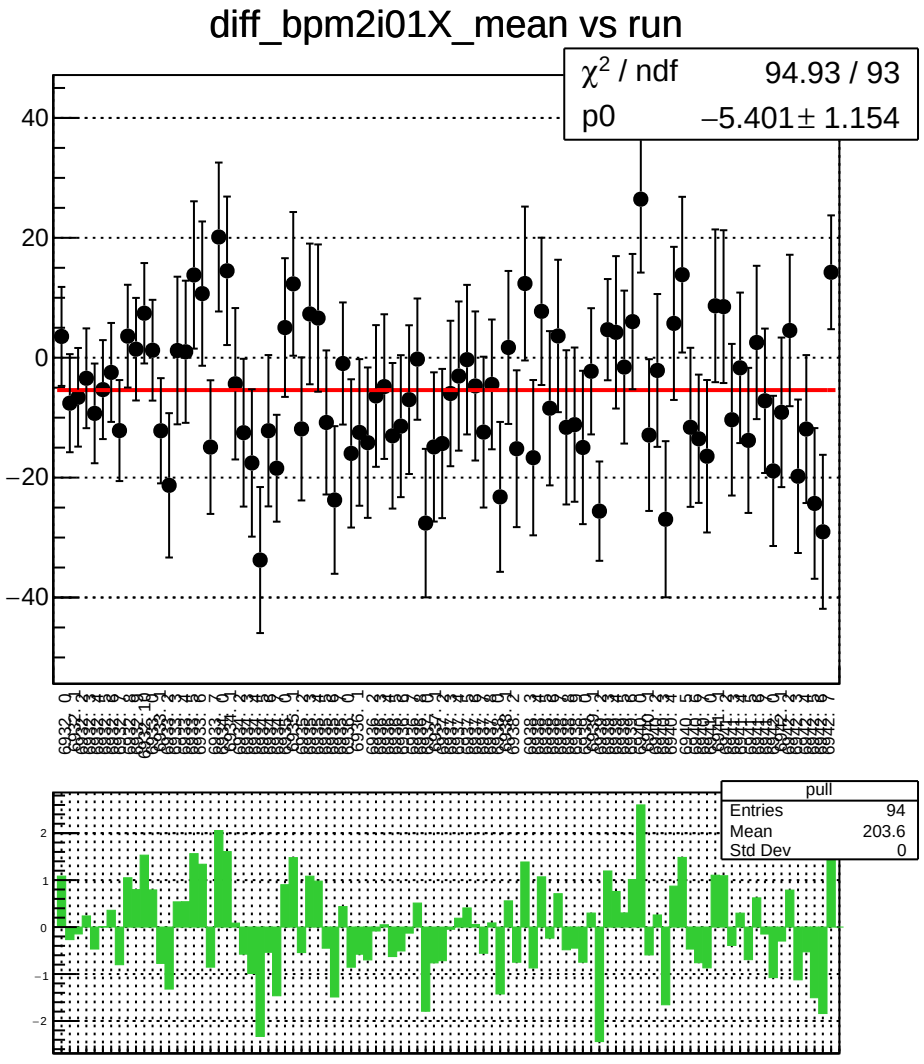

pull1D
Entries 94
Mean −0.01225
Std Dev 0.9433

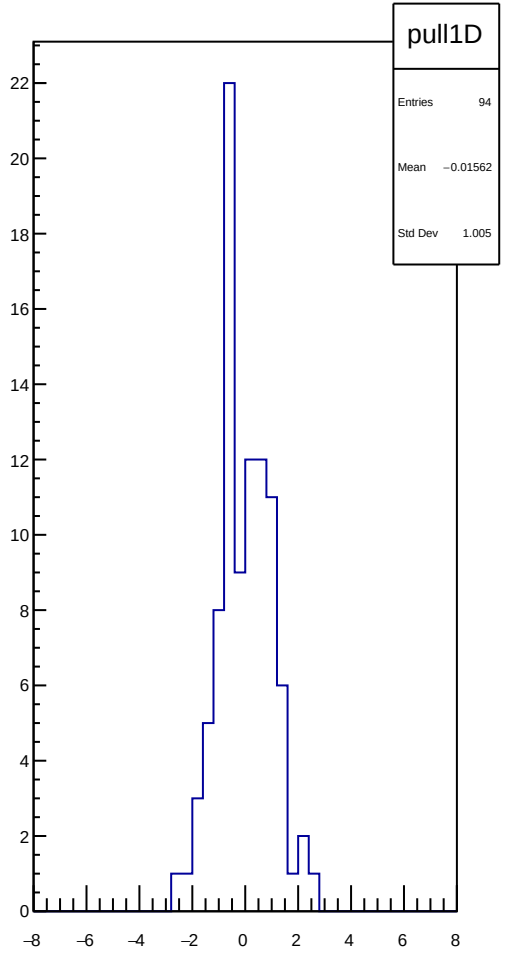

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5868 / 93
p0 9.277e+04 ± 69.97
115
110
105
100
95
90
85
80

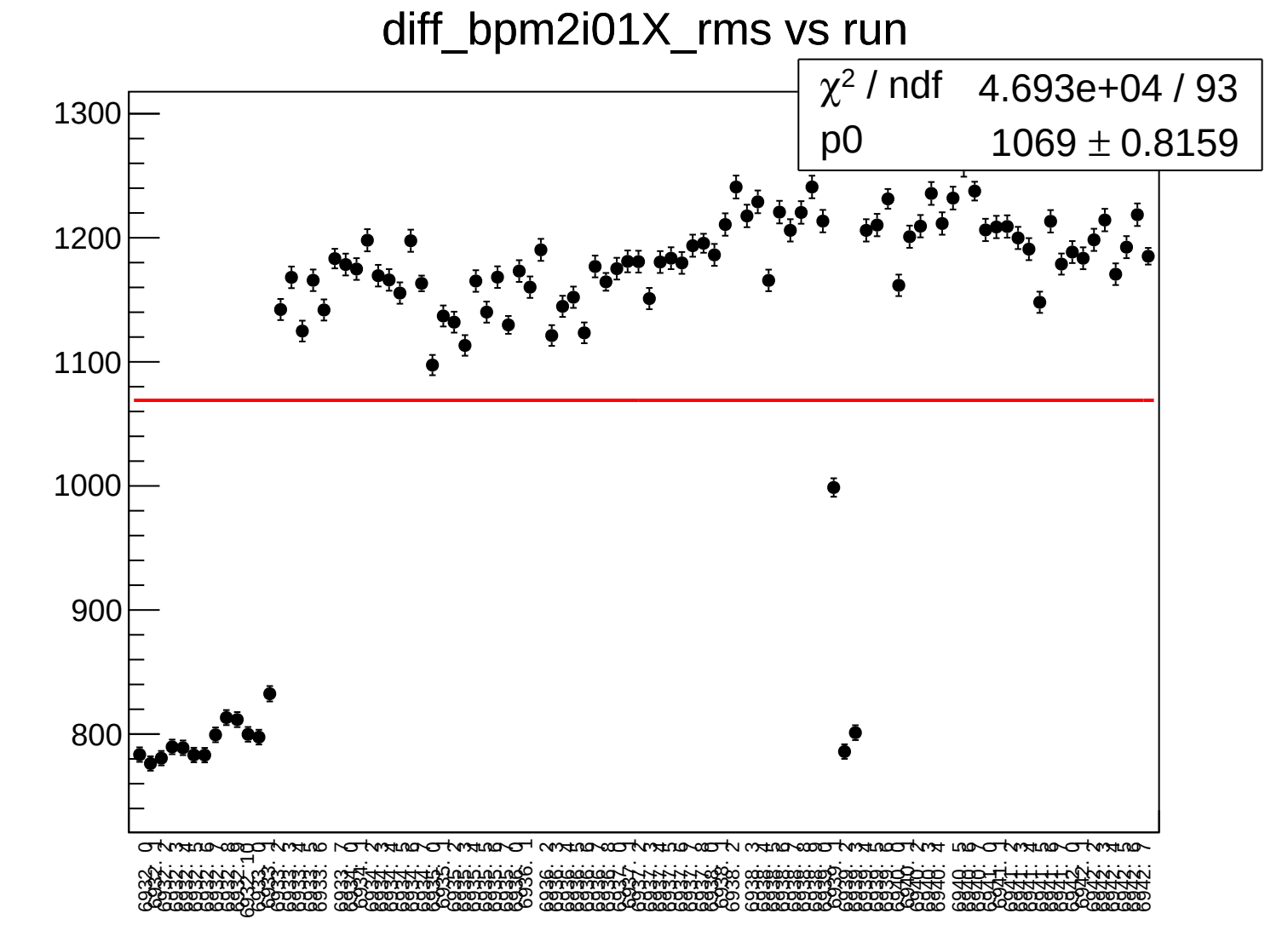

diff_bpm0r05Y_mean vs run
χ² / ndf 81.56 / 93
p0 6.07 ± 3.866
pull
Entries 94
Mean 141.9
Std Dev 0

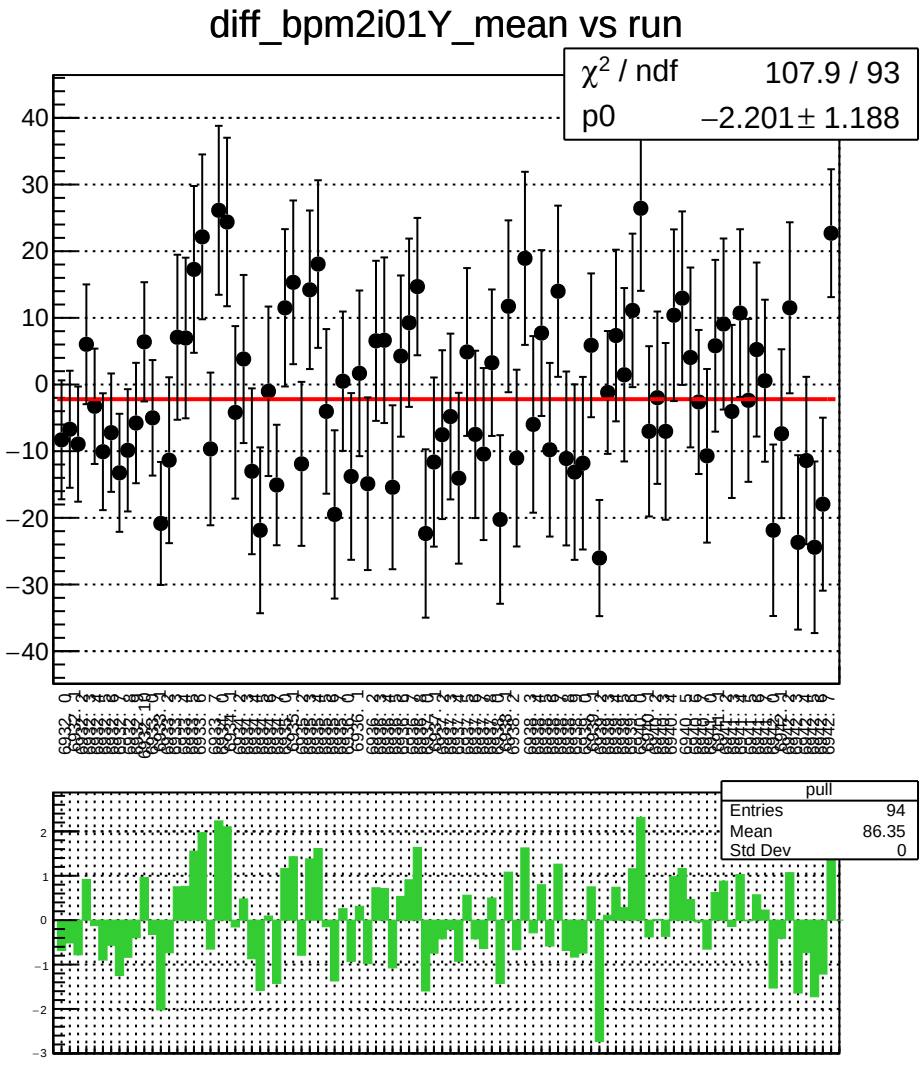

pull1D
Entries 94
Mean −0.01372
Std Dev 0.9314

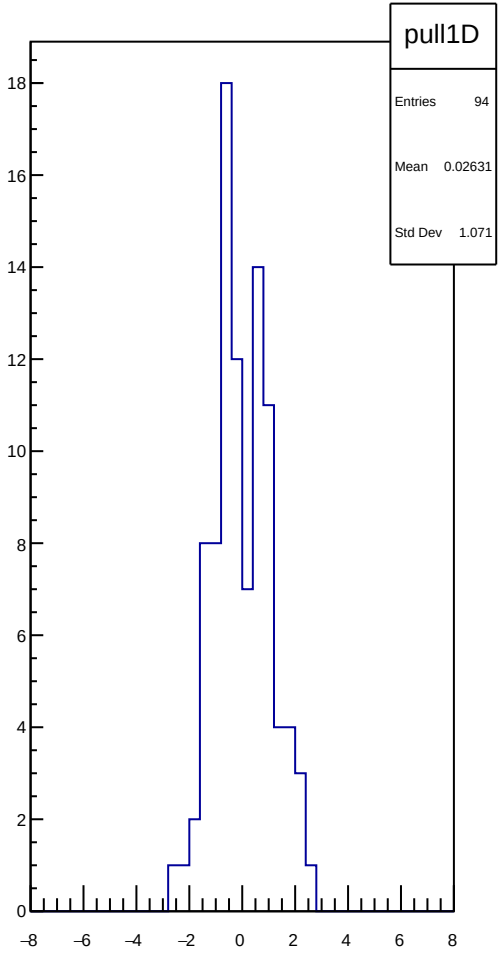

diff_bpm0r05Y_rms vs run
χ² / ndf 4407 / 93
p0 3626 ± 2.734
4200
4000
3800
3600
3400
3200

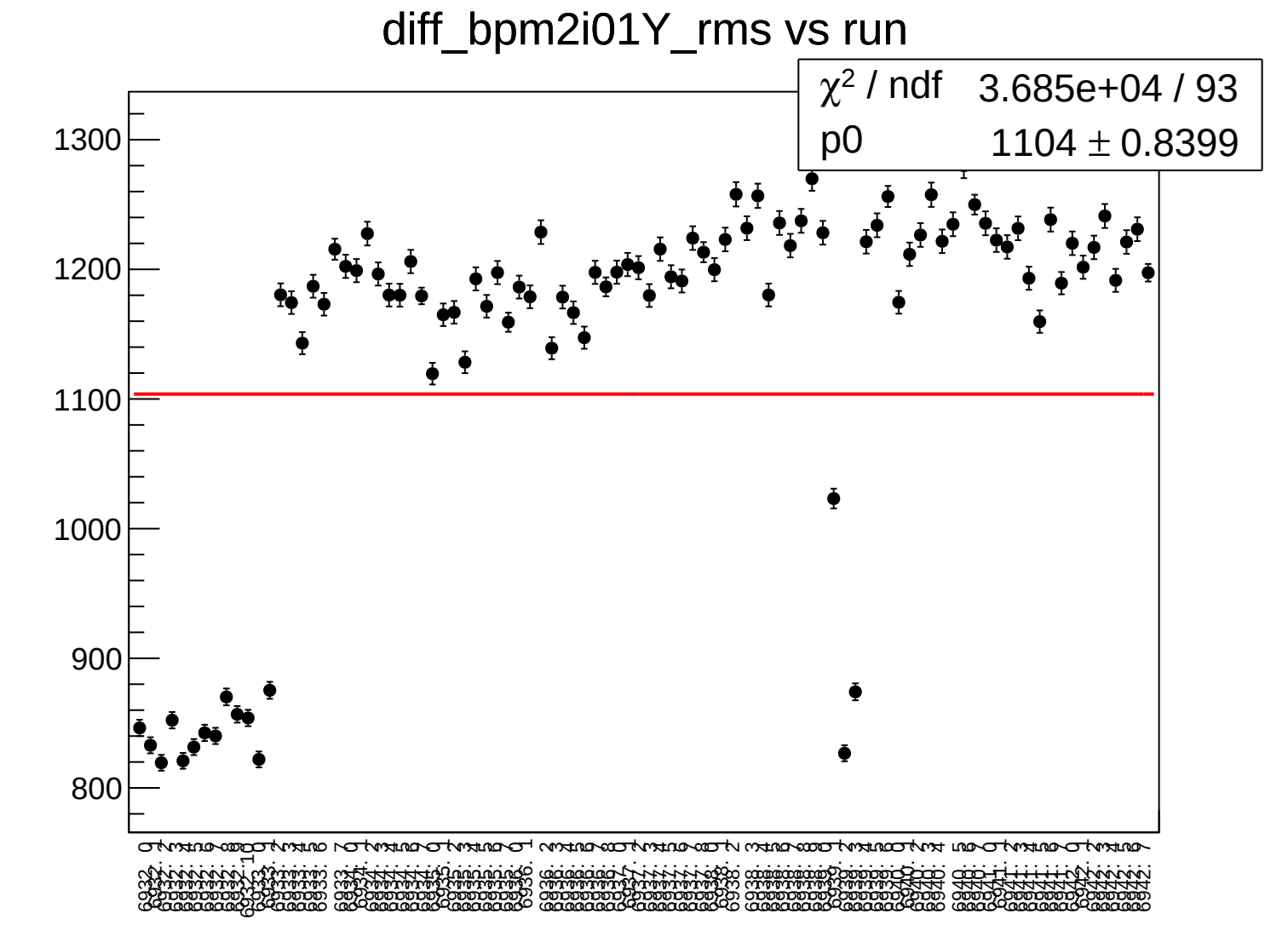

diff_bpm2i01X_mean vs run
χ² / ndf 94.93 / 93
p0 −5.401 ± 1.154
40
20
0
−20
−40
pull
Entries 94
Mean 203.6
Std Dev 0
2
1
0
−1
−2

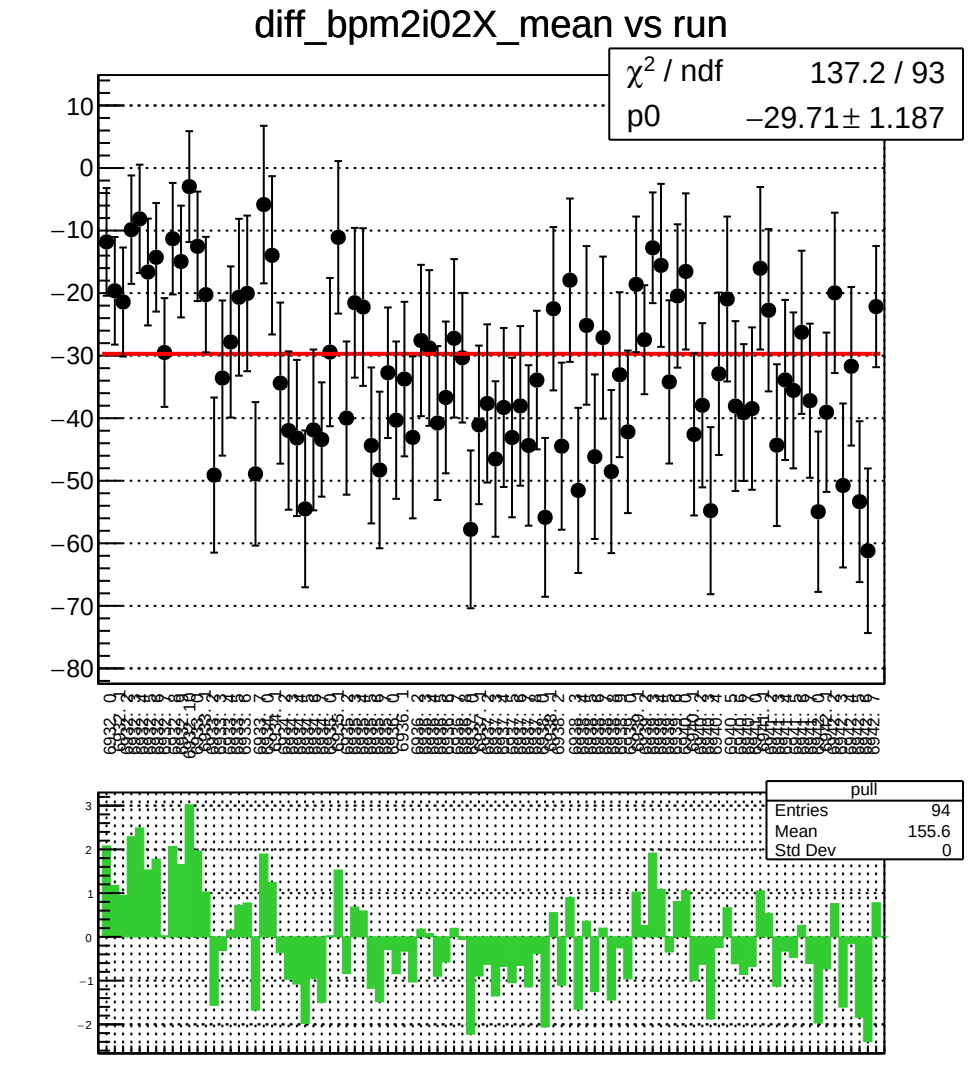

pull1D
Entries 94
Mean −0.01562
Std Dev 1.005
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

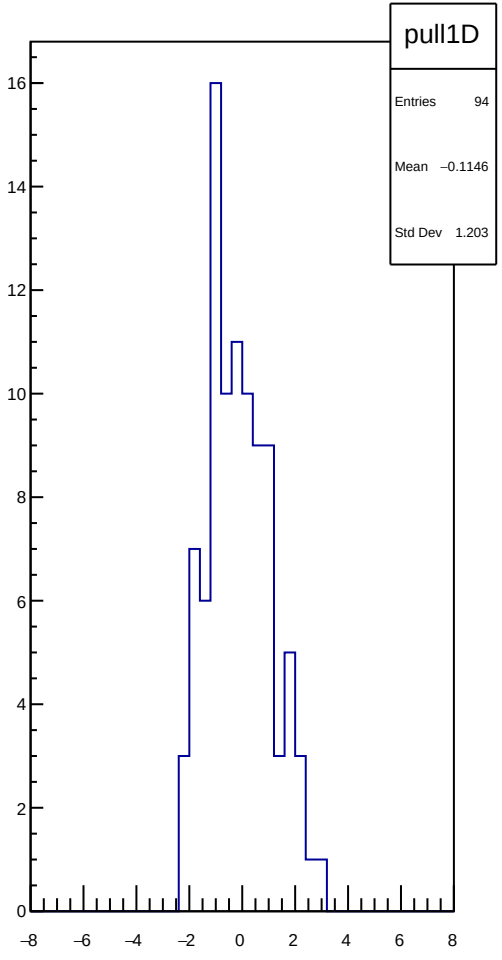

diff_bpm2i01X_rms vs run
χ² / ndf 4.693e+04 / 93
p0 1069 ± 0.8159
1300
1200
1100
1000
900
800

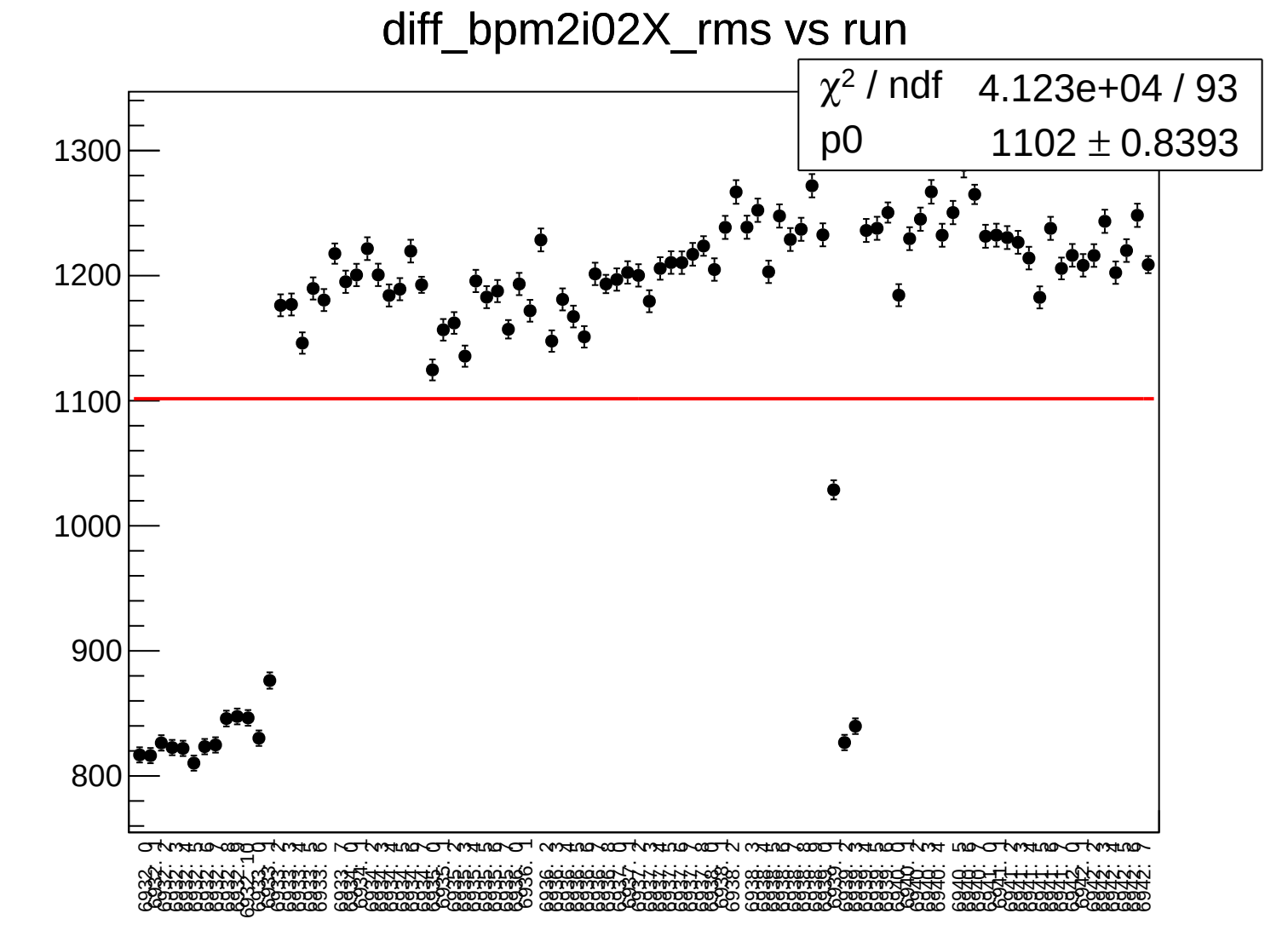

diff_bpm2i01Y_mean vs run
χ² / ndf 107.9 / 93
p0 −2.201 ± 1.188
pull
Entries 94
Mean 86.35
Std Dev 0

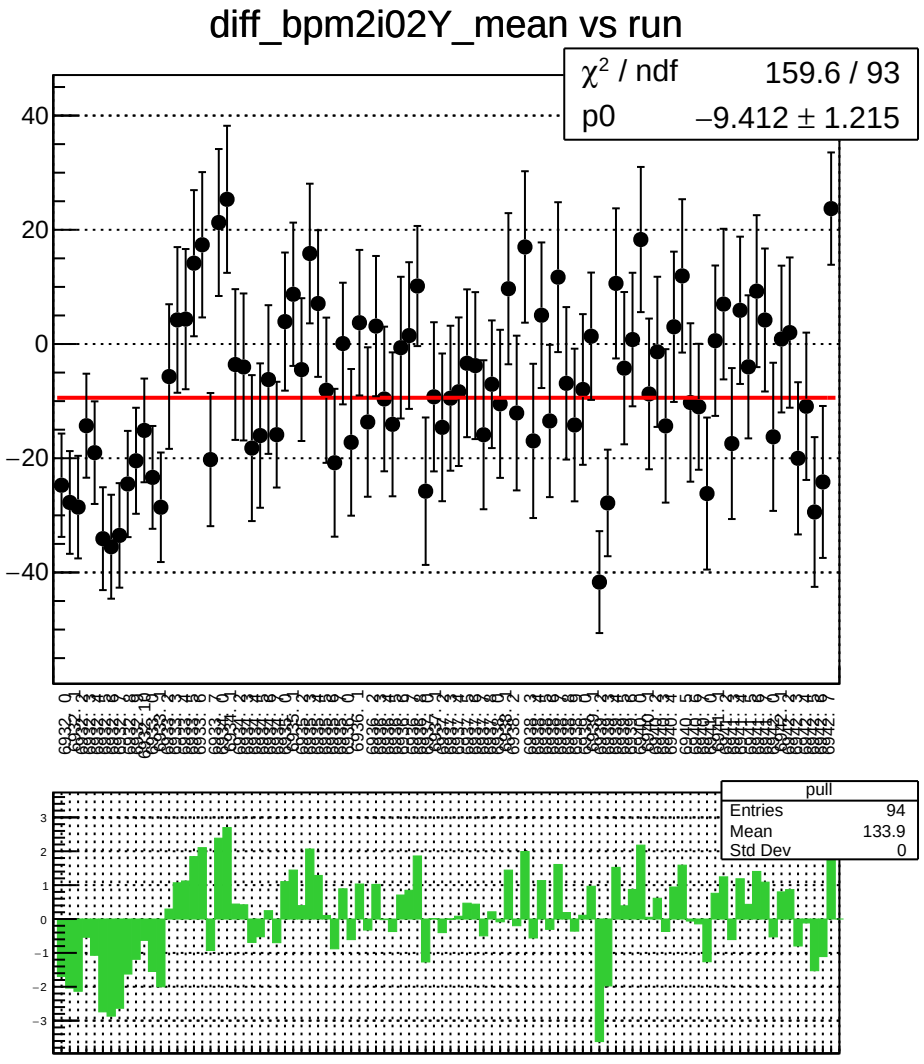

pull1D
Entries 94
Mean 0.02631
Std Dev 1.071

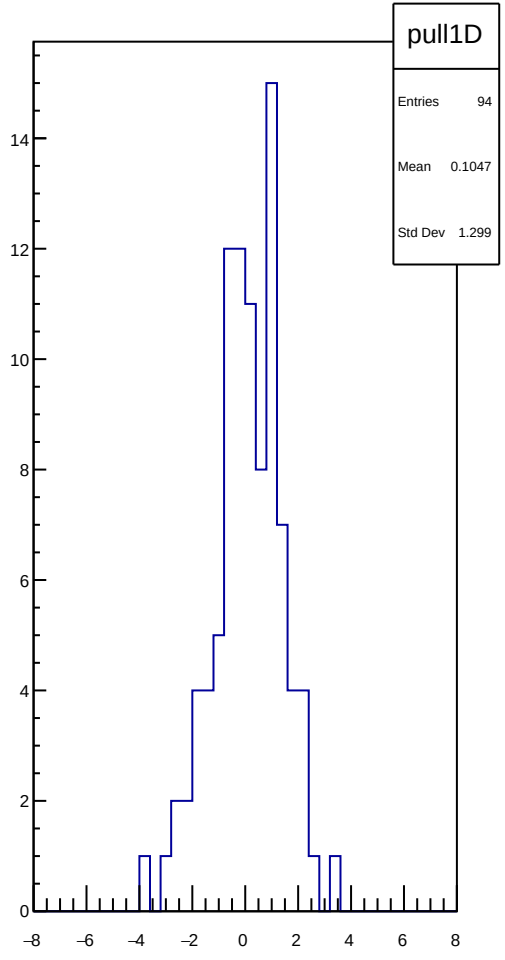

diff_bpm2i01Y_rms vs run
χ² / ndf 3.685e+04 / 93
p0 1104 ± 0.8399
1300
1200
1100
1000
900
800

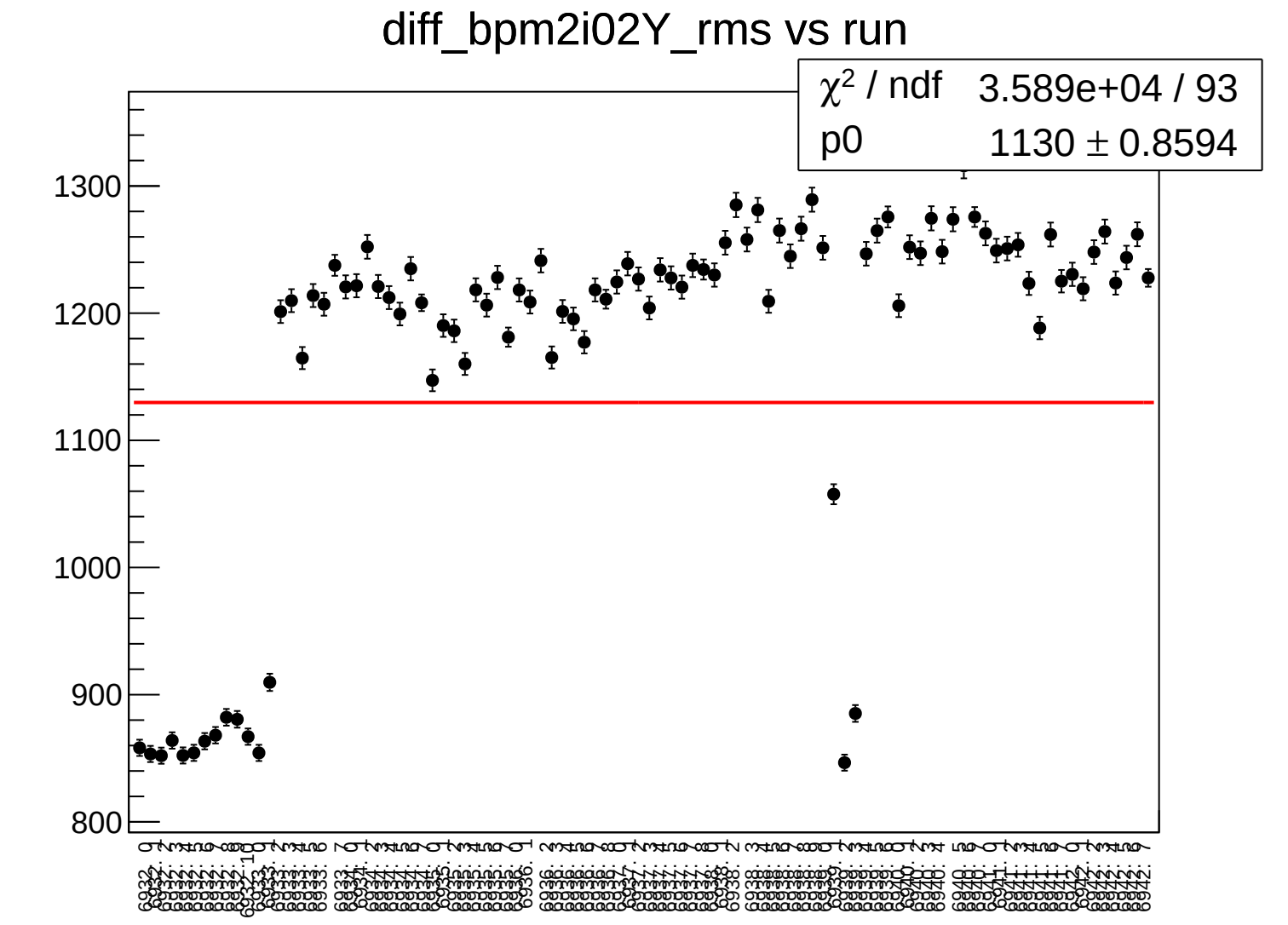

diff_bpm2i02X_mean vs run
χ² / ndf 137.2 / 93
p0 −29.71 ± 1.187
pull
Entries 94
Mean 155.6
Std Dev 0

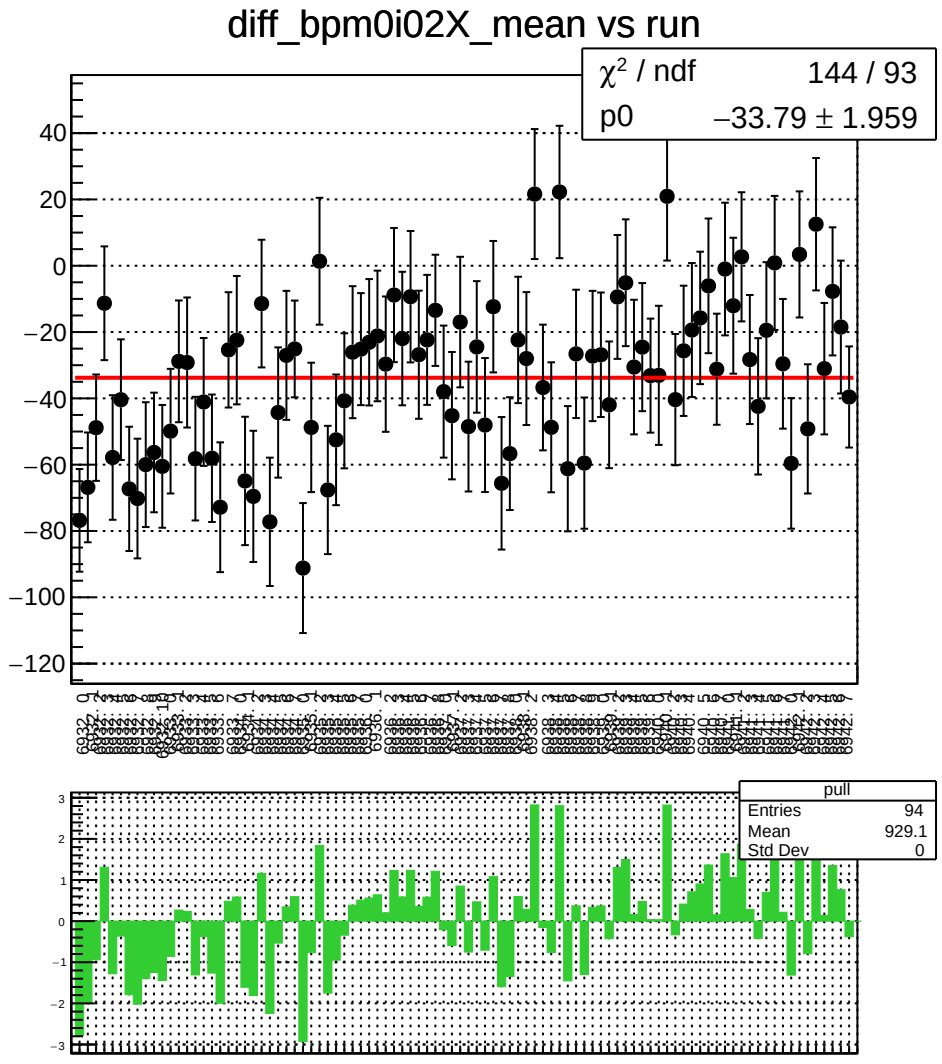

pull1D
Entries 94
Mean −0.1146
Std Dev 1.203

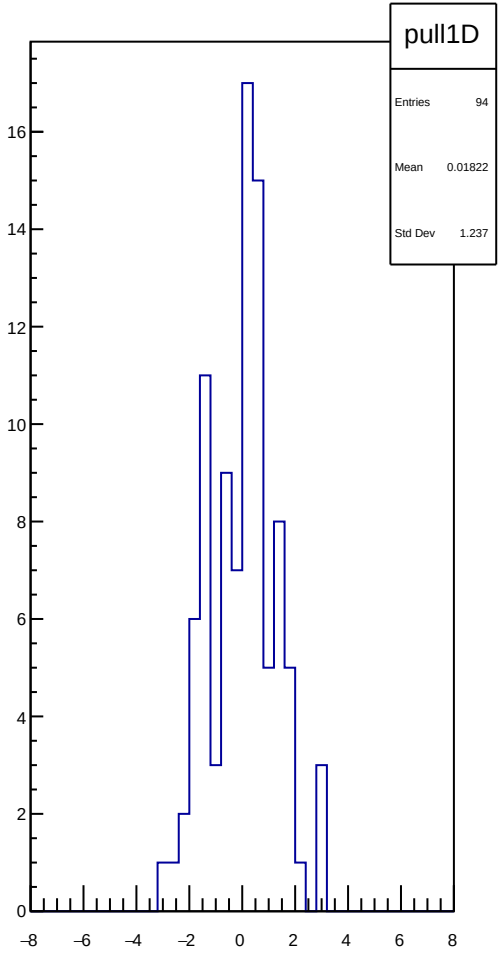

diff_bpm2i02X_rms vs run
χ² / ndf 4.123e+04 / 93
p0 1102 ± 0.8393
1300
1200
1100
1000
900
800

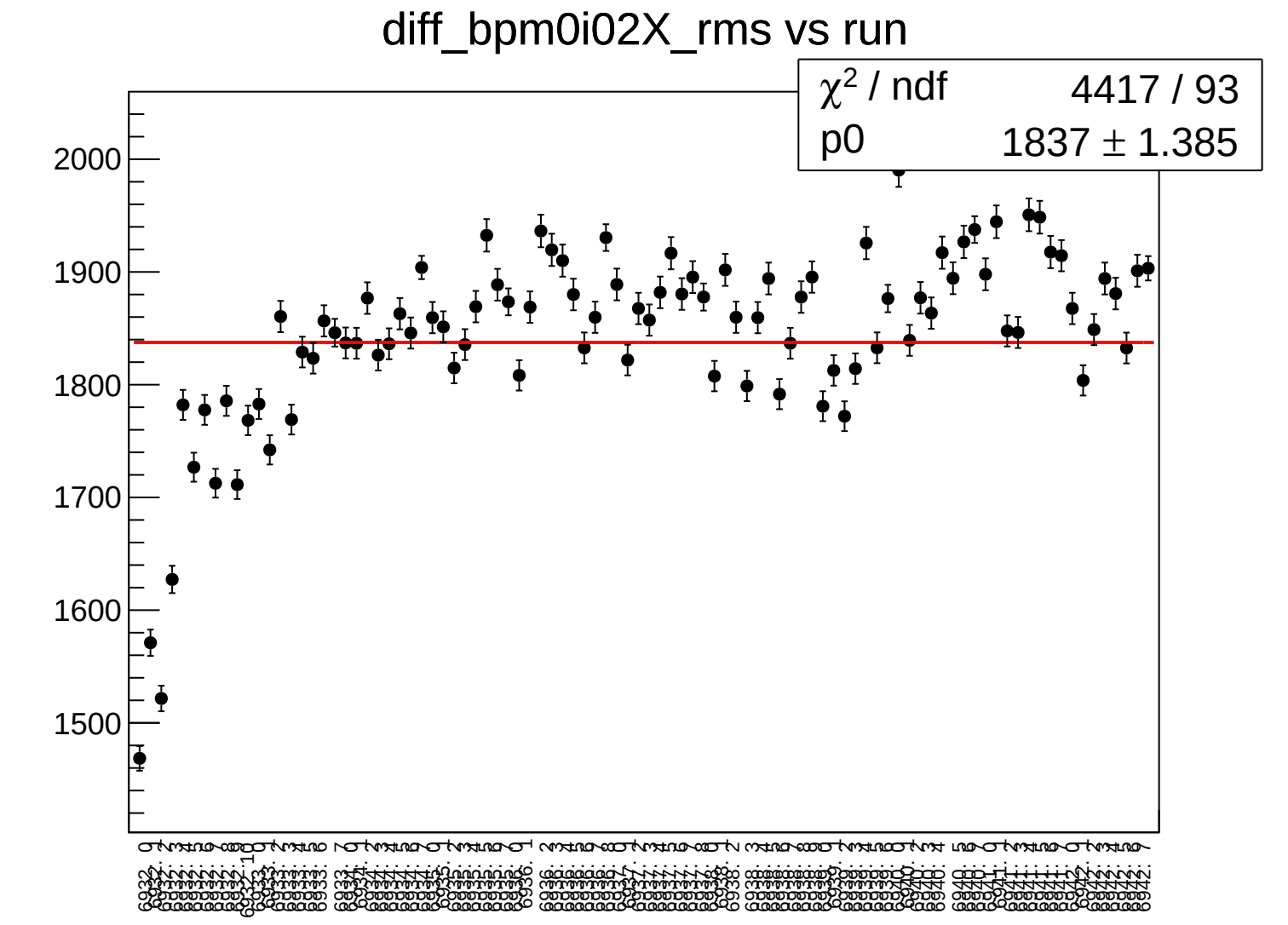

diff_bpm2i02Y_mean vs run
χ² / ndf 159.6 / 93
p0 −9.412 ± 1.215
40
20
0
−20
−40
pull
Entries 94
Mean 133.9
Std Dev 0
3
2
1
0
−1
−2
−3

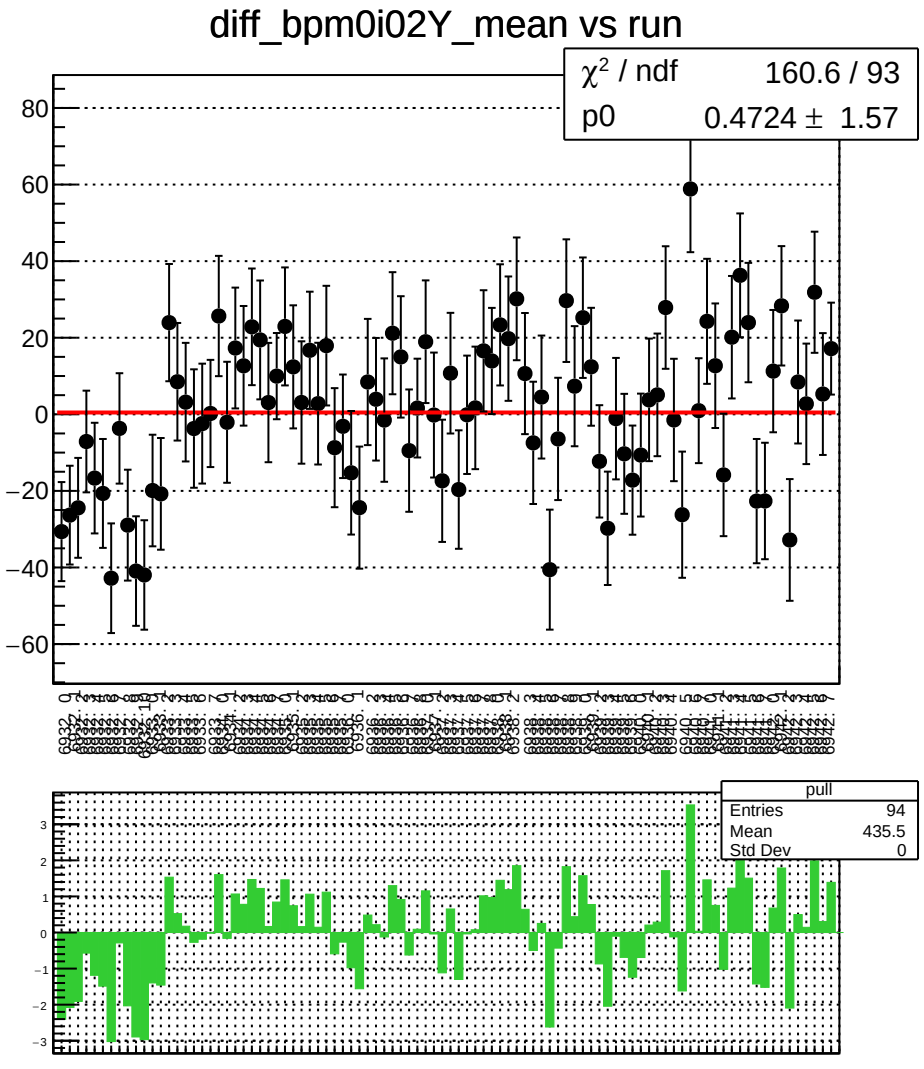

pull1D
Entries 94
Mean 0.1047
Std Dev 1.299
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

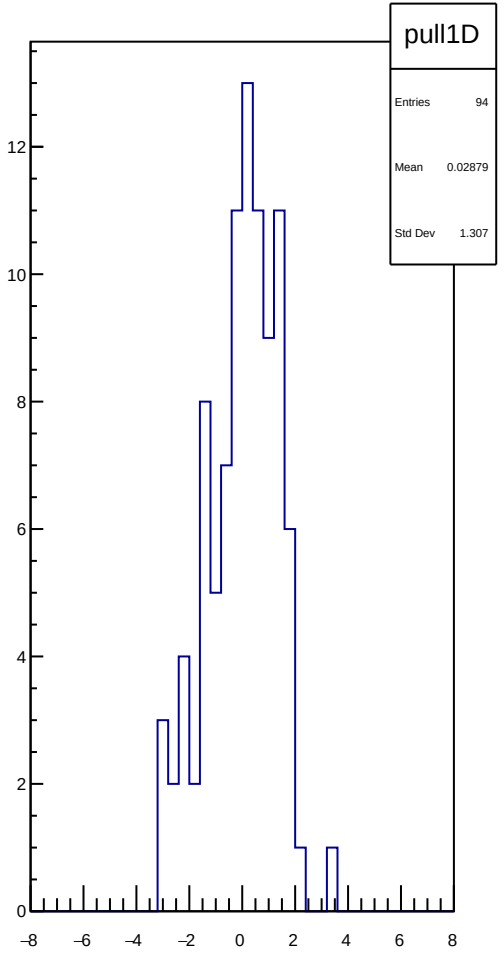

diff_bpm2i02Y_rms vs run
χ² / ndf 3.589e+04 / 93
p0 1130 ± 0.8594
1300
1200
1100
1000
900
800

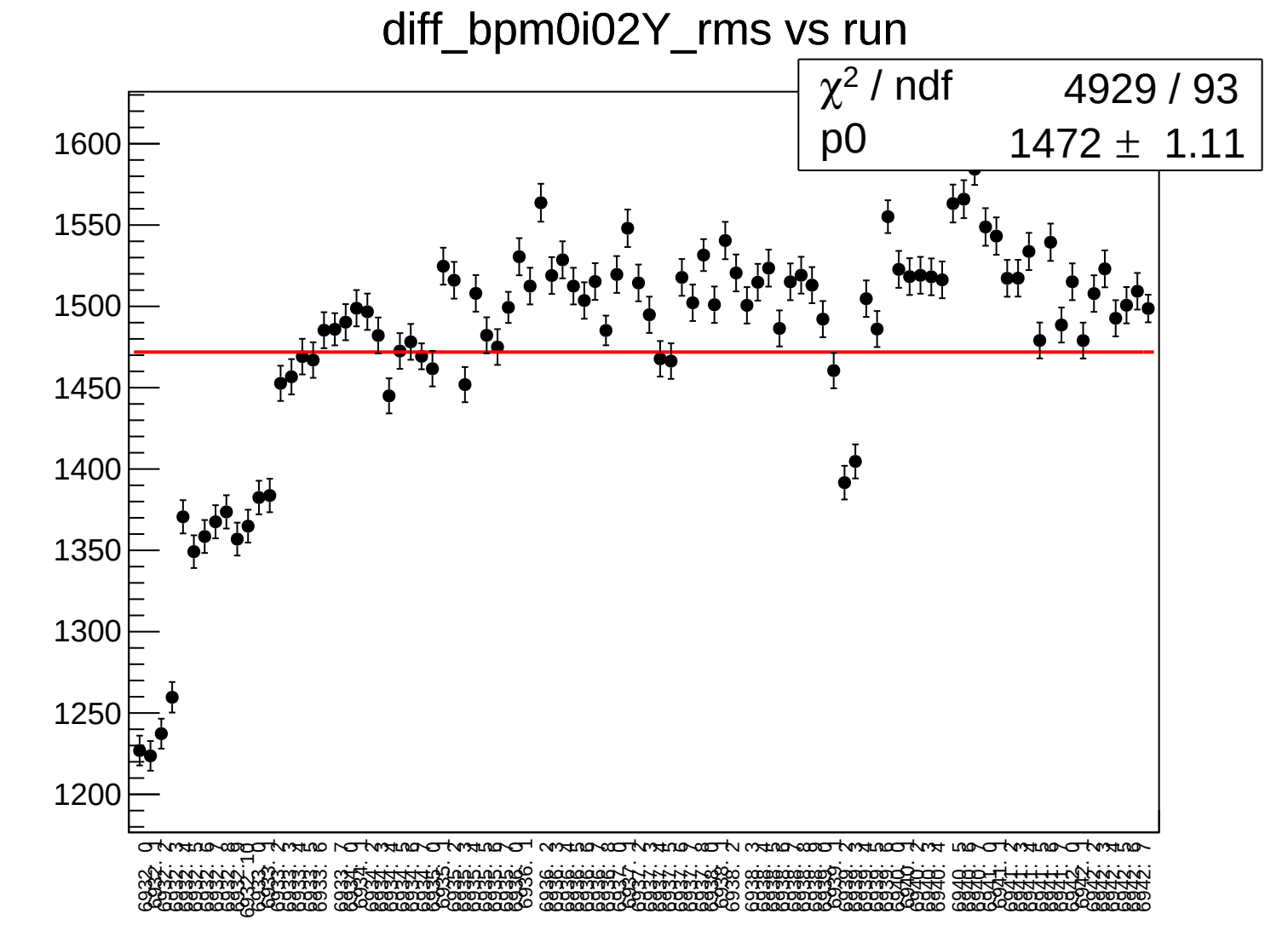

diff_bpm0i02X_mean vs run
χ² / ndf 144 / 93
p0 −33.79 ± 1.959
pull
Entries 94
Mean 929.1
Std Dev 0

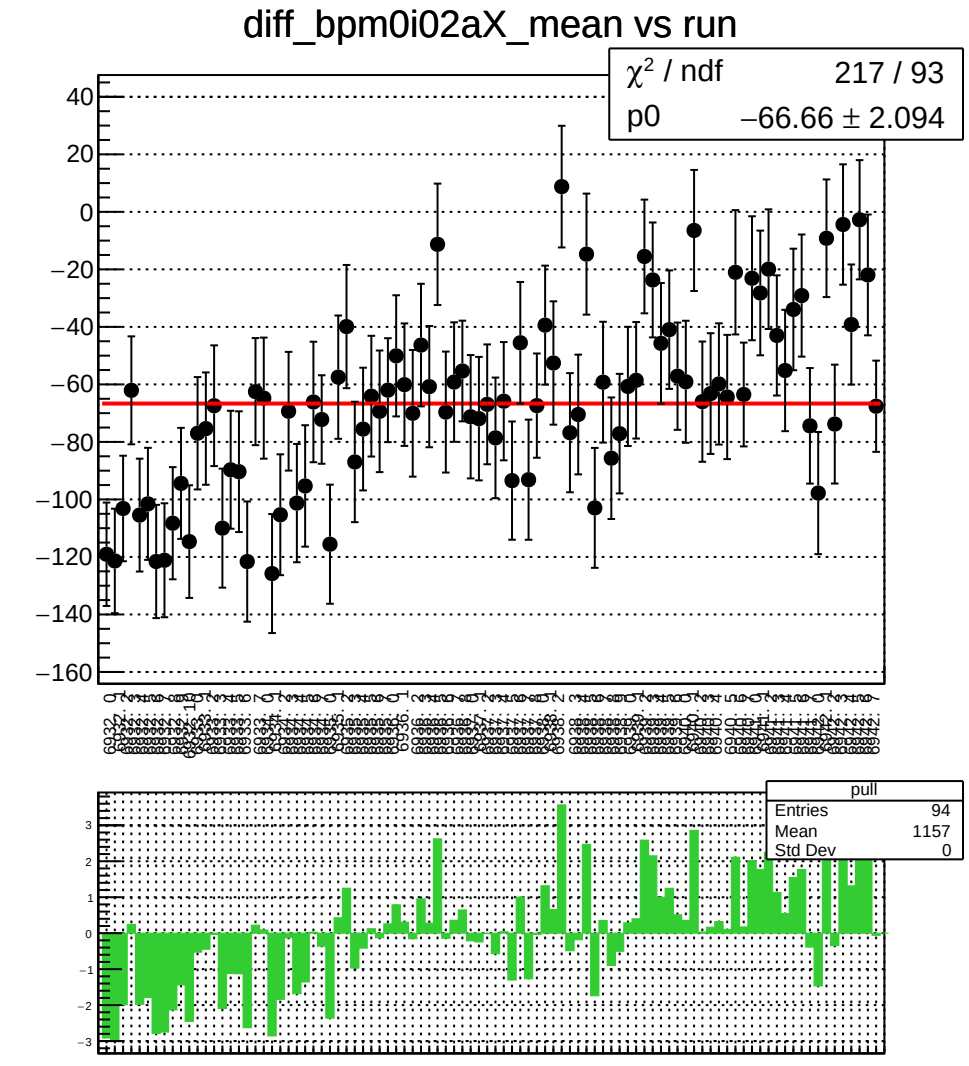

pull1D
Entries 94
Mean 0.01822
Std Dev 1.237

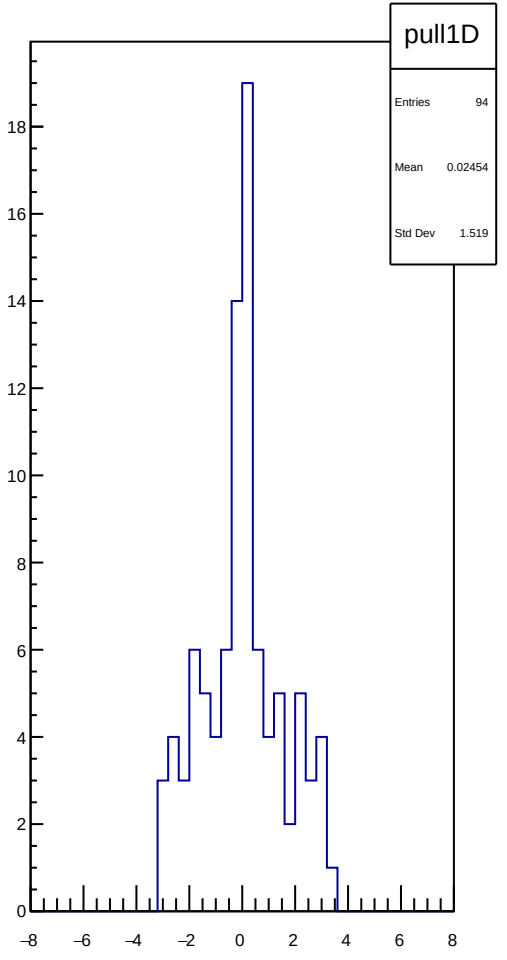

diff_bpm0i02X_rms vs run
χ² / ndf 4417 / 93
p0 1837 ± 1.385
2000
1900
1800
1700
1600
1500

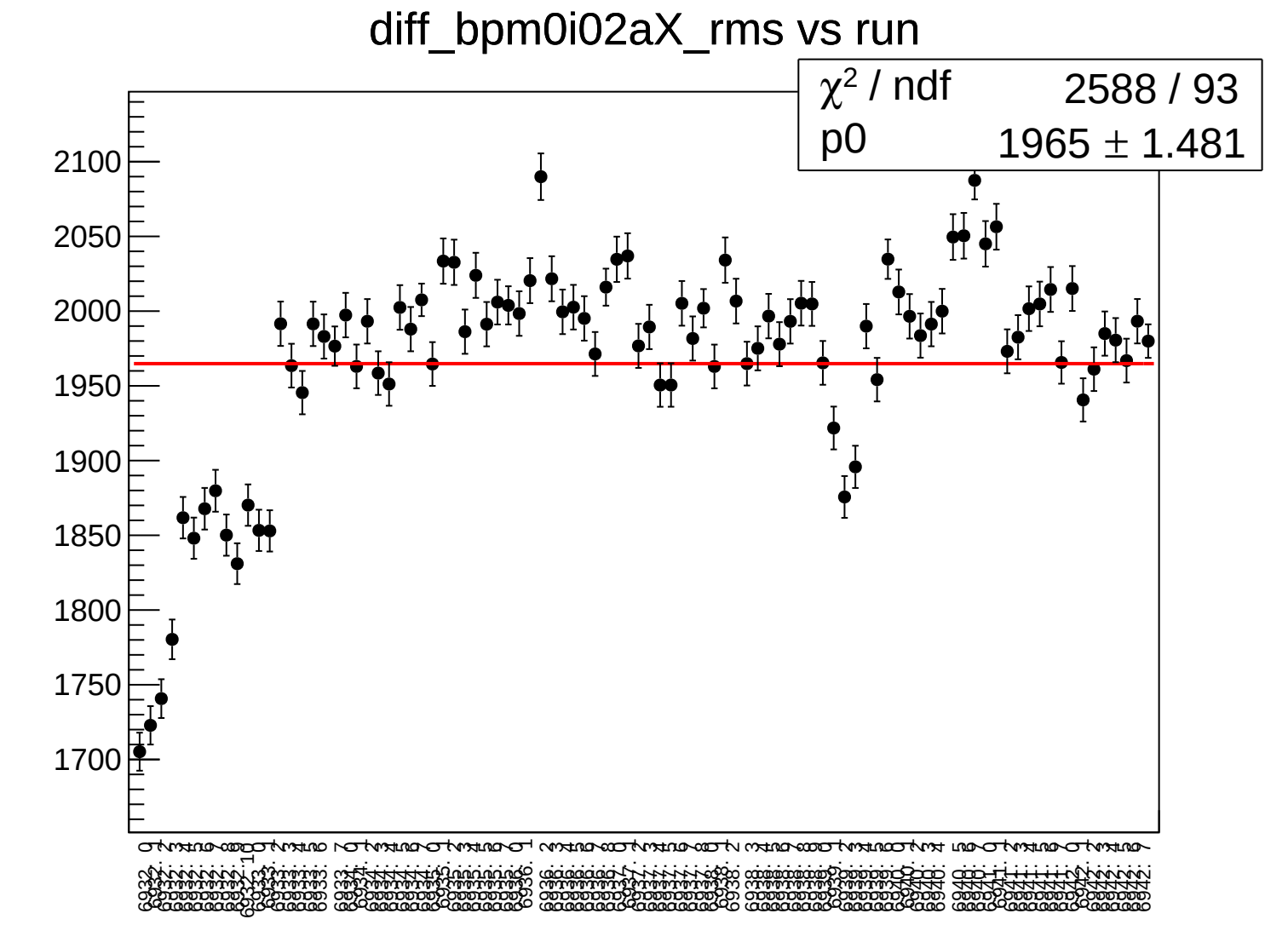

diff_bpm0i02Y_mean vs run
χ² / ndf 160.6 / 93
p0 0.4724 ± 1.57
pull
Entries 94
Mean 435.5
Std Dev 0

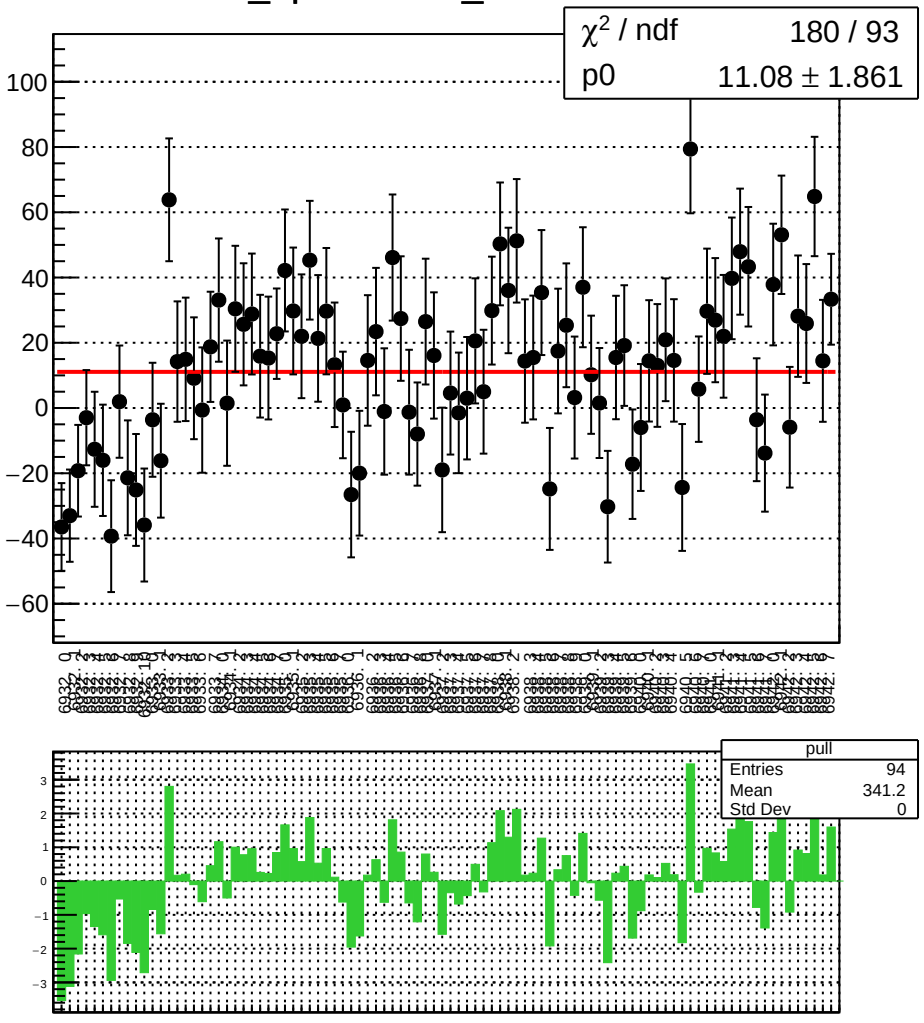

pull1D
Entries 94
Mean 0.02879
Std Dev 1.307

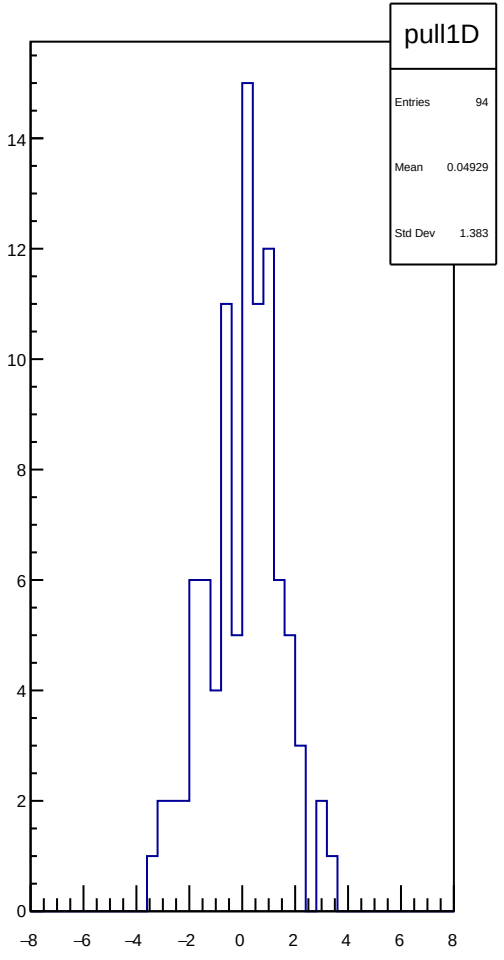

diff_bpm0i02Y_rms vs run
χ² / ndf 4929 / 93
p0 1472 ± 1.11
1600
1550
1500
1450
1400
1350
1300
1250
1200

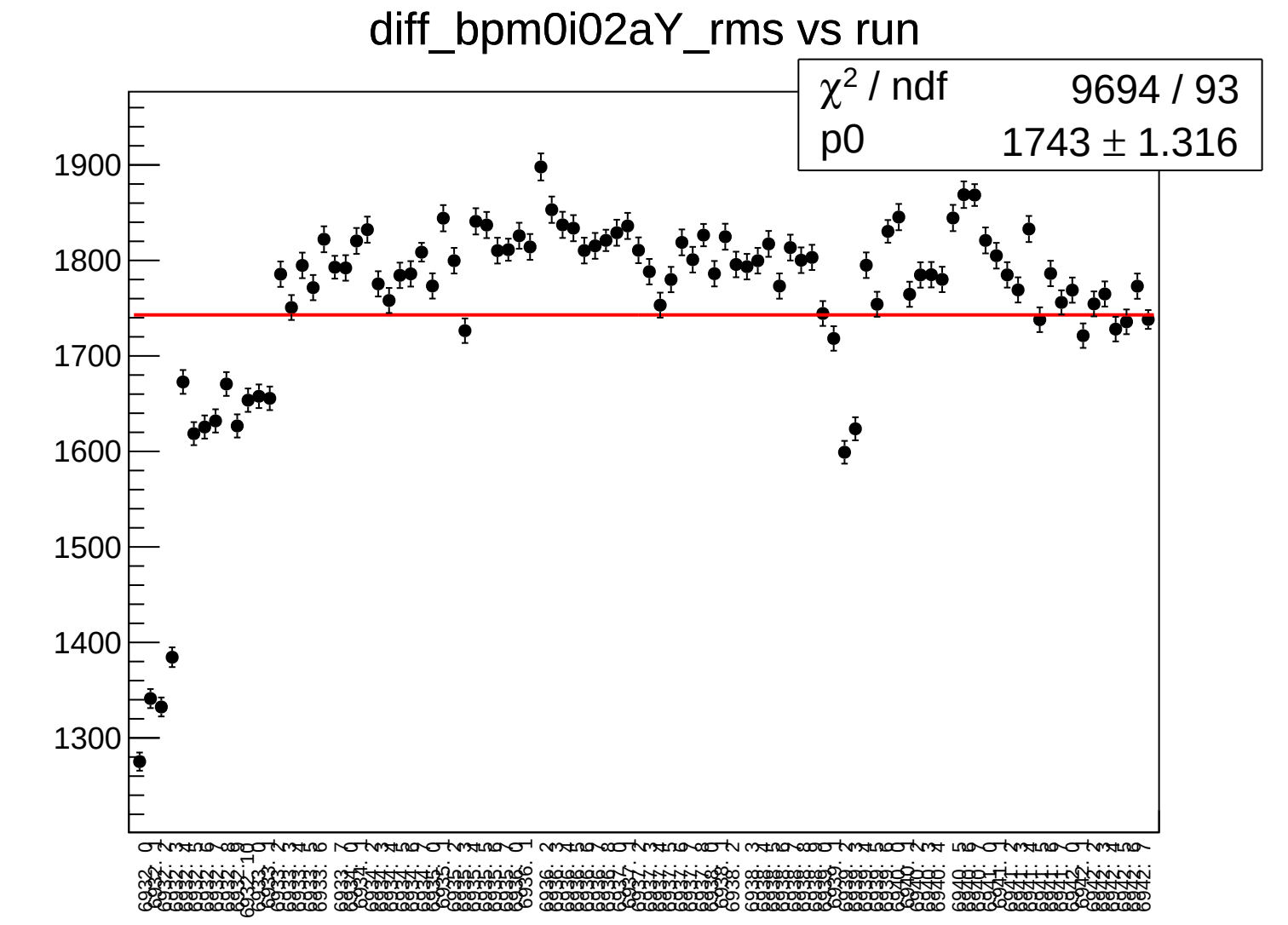

diff_bpm0i02aX_mean vs run
χ² / ndf 217 / 93
p0 −66.66 ± 2.094
pull
Entries 94
Mean 1157
Std Dev 0

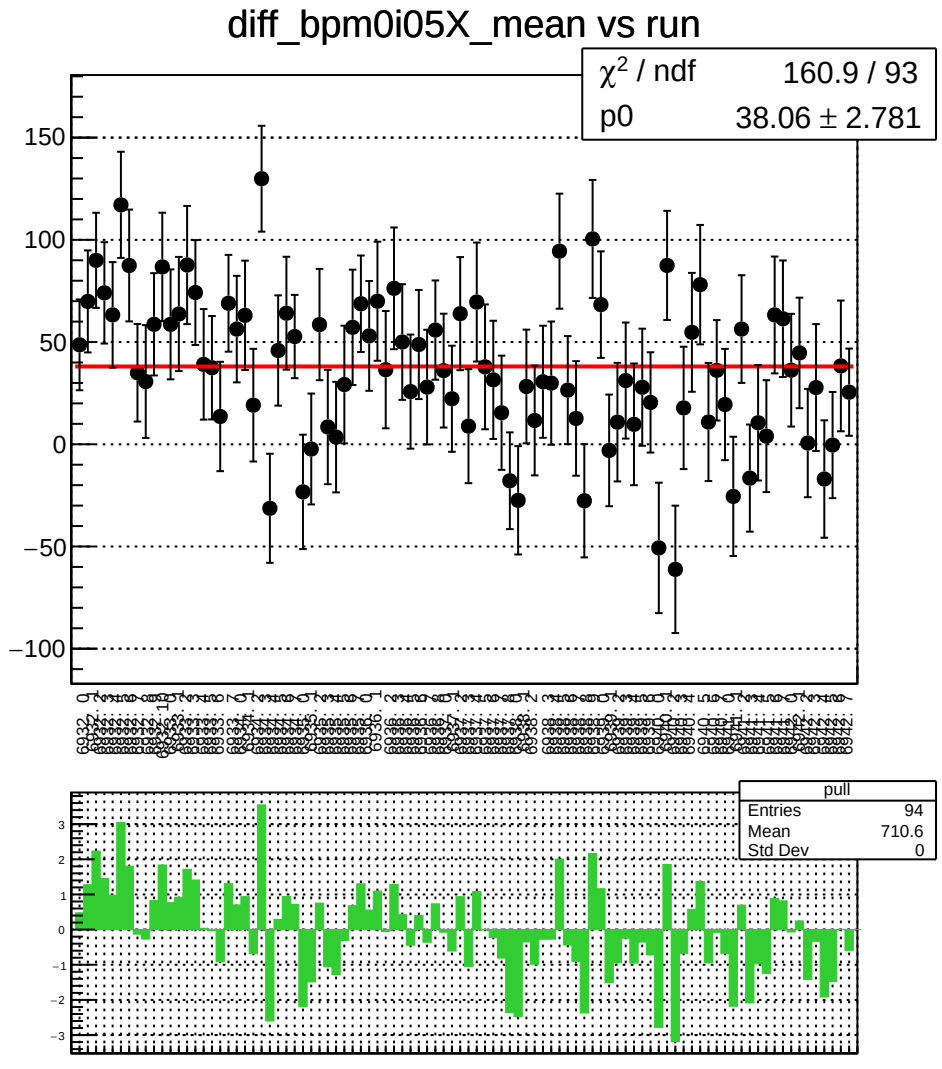

pull1D
Entries 94
Mean 0.02454
Std Dev 1.519

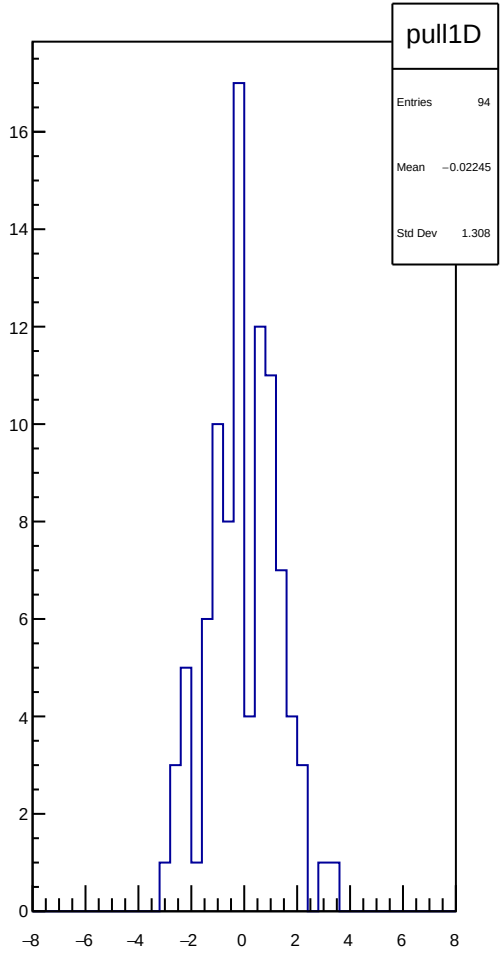

diff_bpm0i02aX_rms vs run
χ² / ndf 2588 / 93
p0 1965 ± 1.481
2100
2050
2000
1950
1900
1850
1800
1750
1700

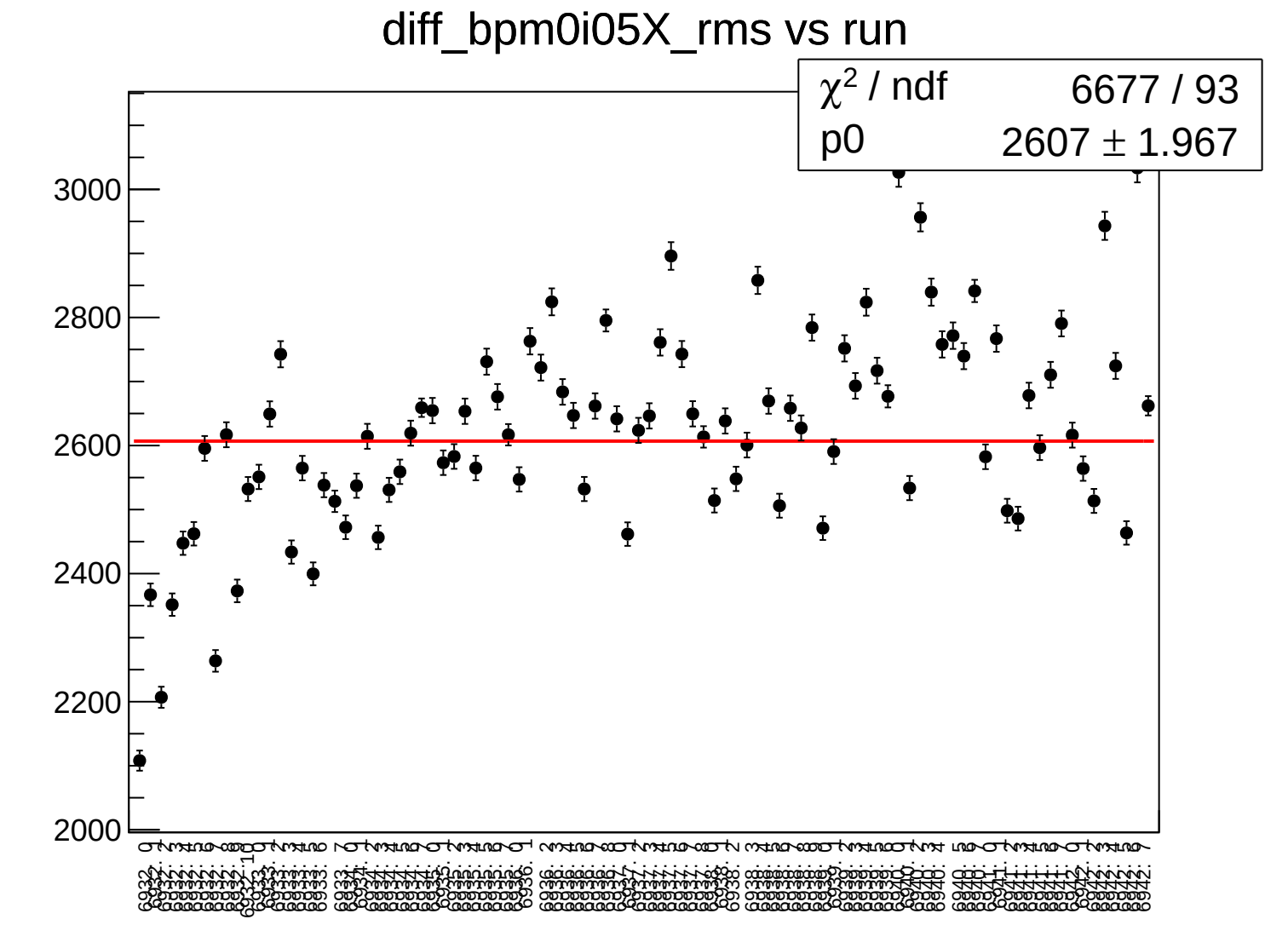

diff_bpm0i02aY_mean vs run
χ² / ndf 180 / 93
p0 11.08 ± 1.861
pull
Entries 94
Mean 341.2
Std Dev 0

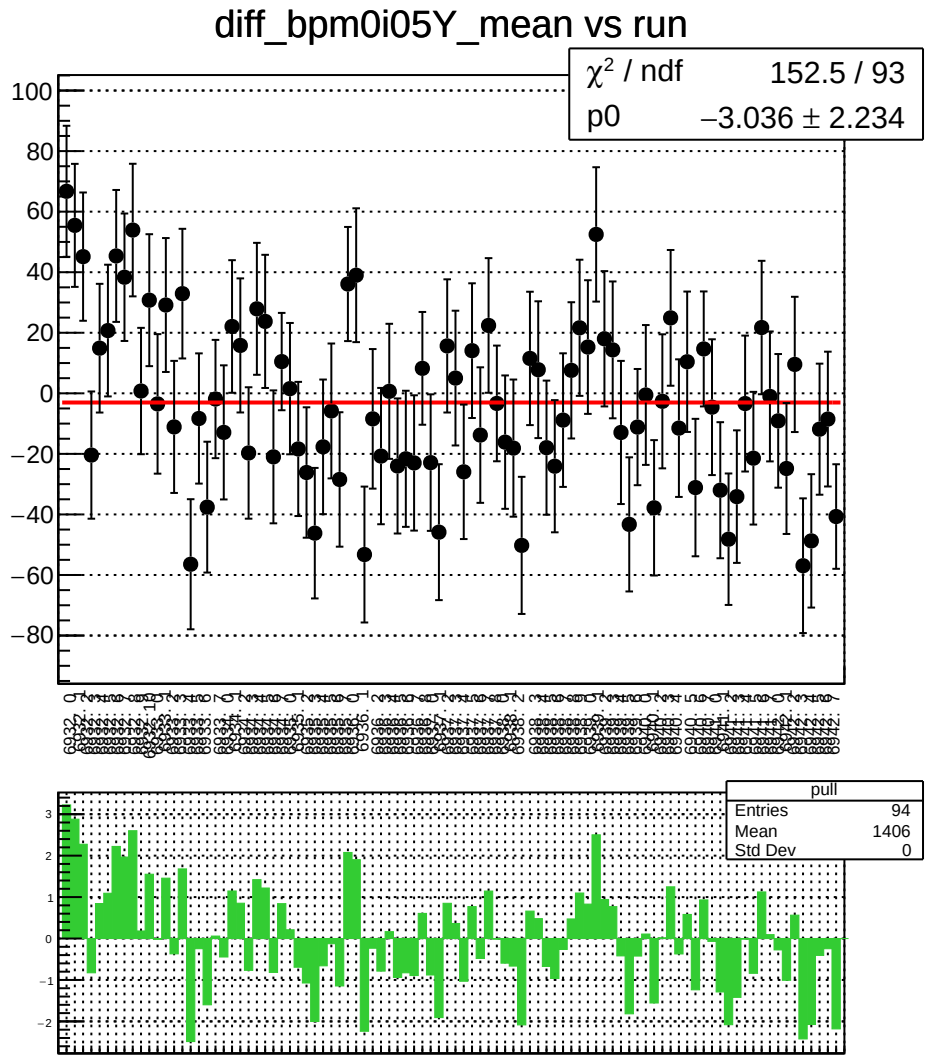

pull1D
Entries 94
Mean 0.04929
Std Dev 1.383

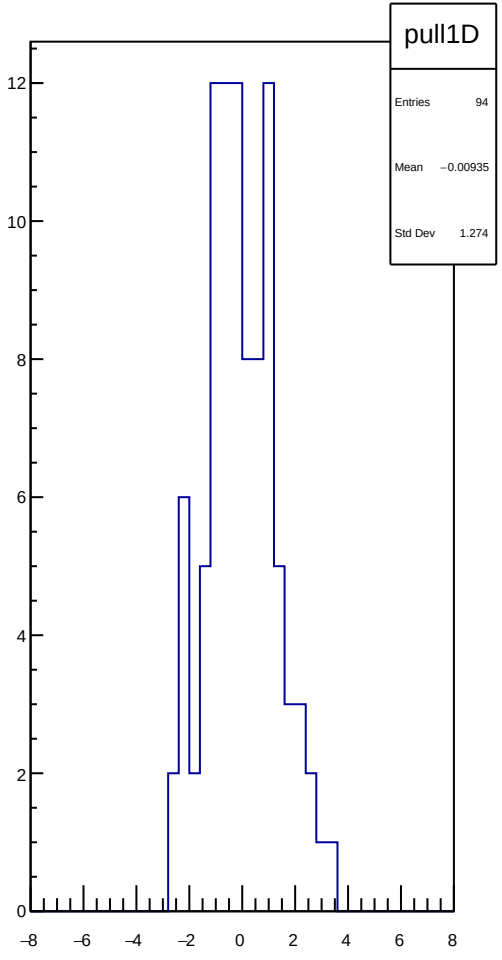

diff_bpm0i02aY_rms vs run
χ² / ndf 9694 / 93
p0 1743 ± 1.316
1900
1800
1700
1600
1500
1400
1300

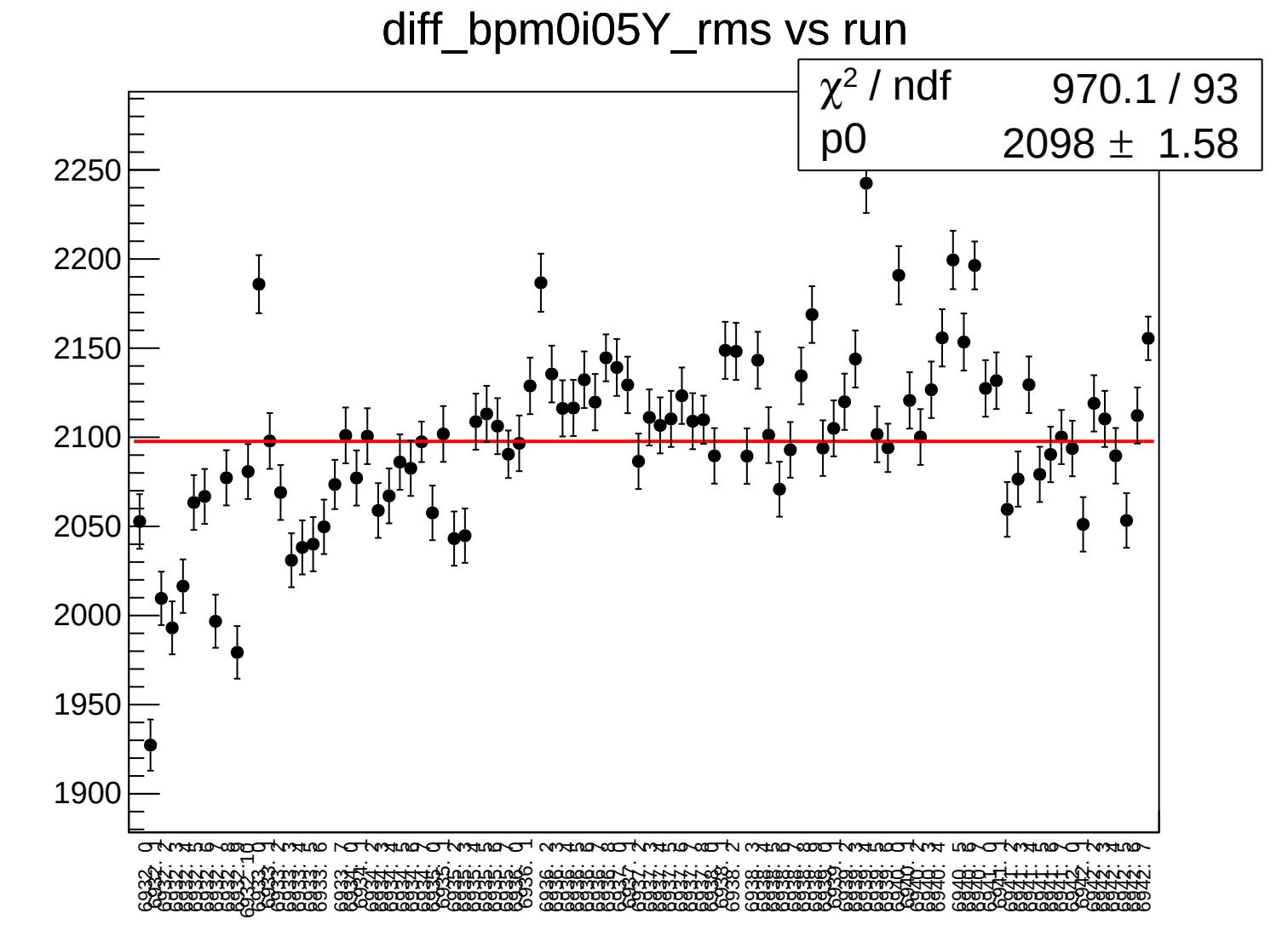

diff_bpm0i05X_mean vs run
χ² / ndf 160.9 / 93
p0 38.06 ± 2.781
150
100
50
0
−50
−100
pull
Entries 94
Mean 710.6
Std Dev 0
3
2
1
0
−1
−2
−3

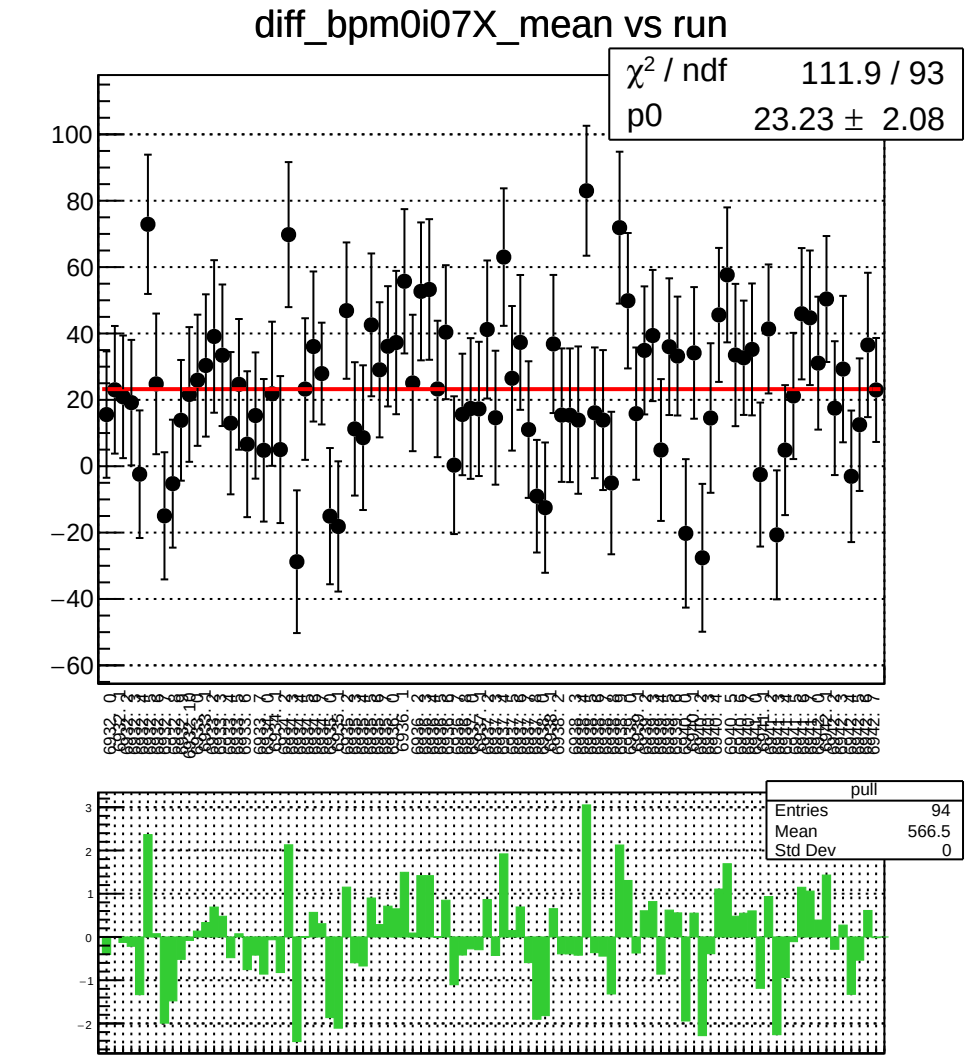

pull1D
Entries 94
Mean −0.02245
Std Dev 1.308
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

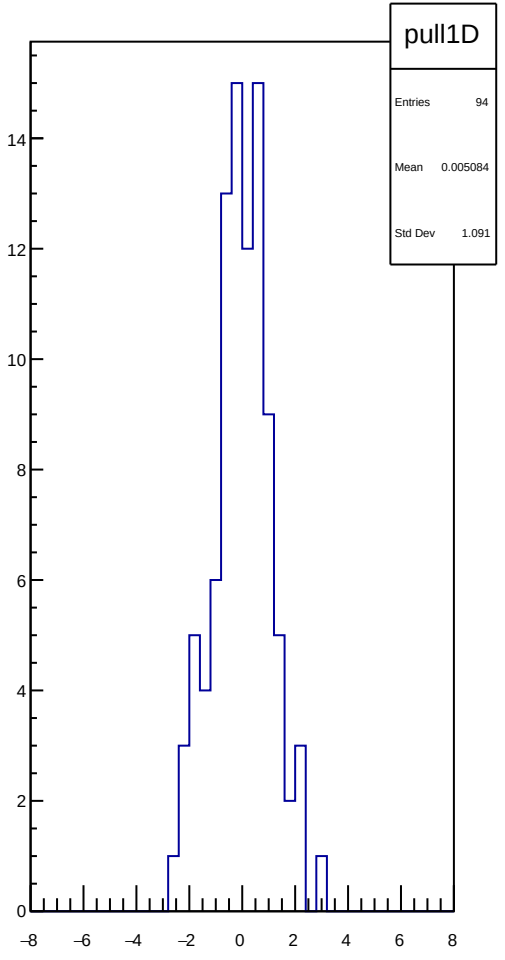

diff_bpm0i05X_rms vs run
χ² / ndf 6677 / 93
p0 2607 ± 1.967
3000
2800
2600
2400
2200
2000

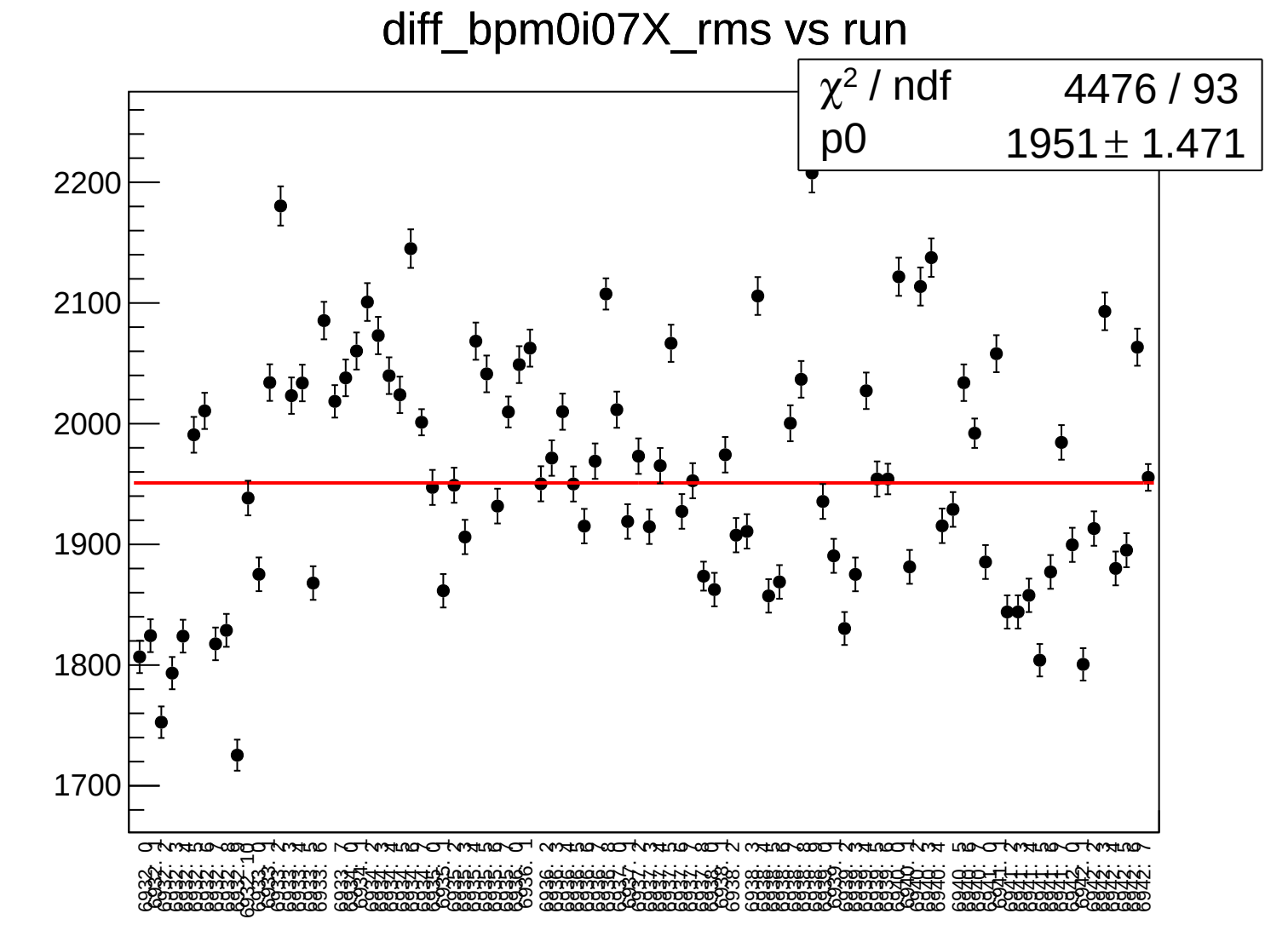

diff_bpm0i05Y_mean vs run
χ² / ndf 152.5 / 93
p0 −3.036 ± 2.234
pull
Entries 94
Mean 1406
Std Dev 0

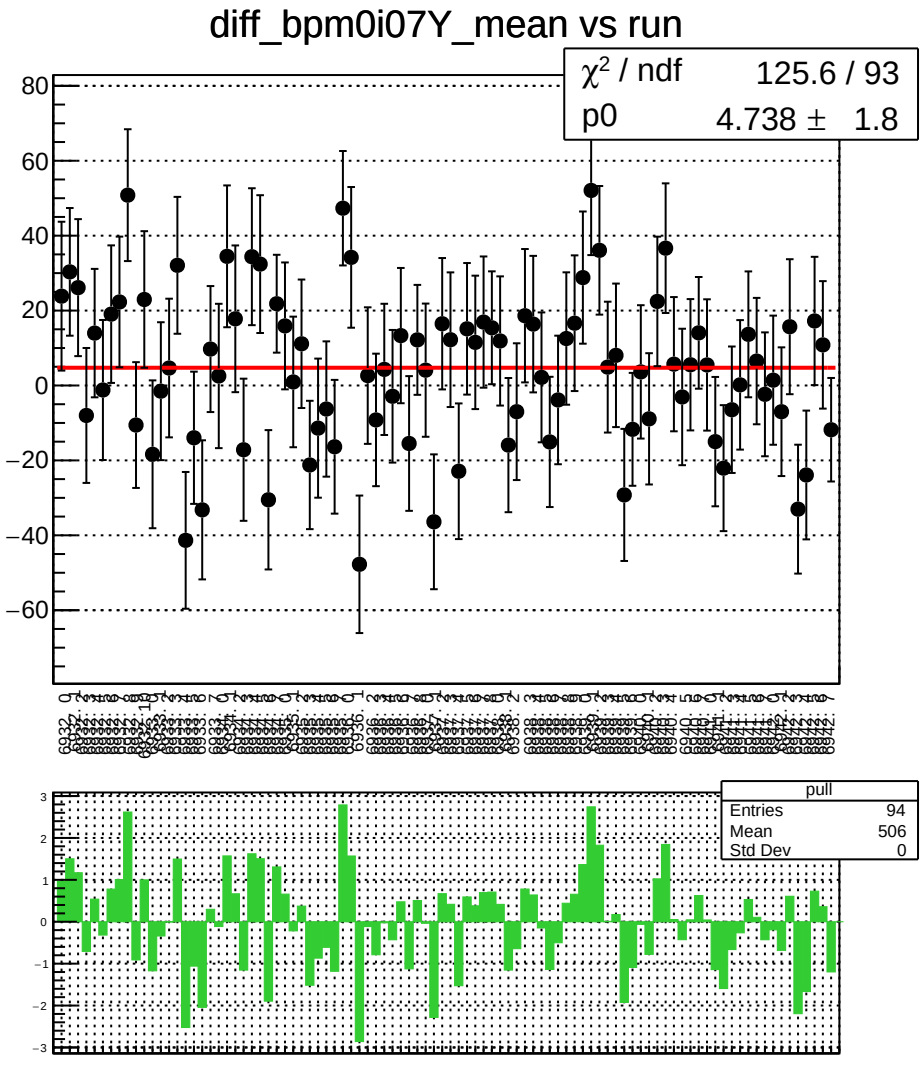

pull1D
Entries 94
Mean −0.00935
Std Dev 1.274

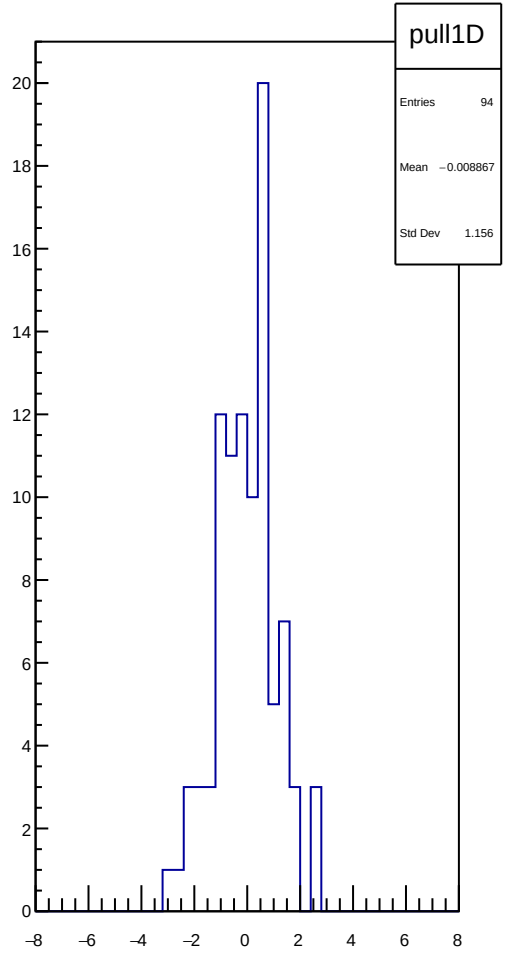

diff_bpm0i05Y_rms vs run
χ² / ndf 970.1 / 93
p0 2098 ± 1.58
2250
2200
2150
2100
2050
2000
1950
1900

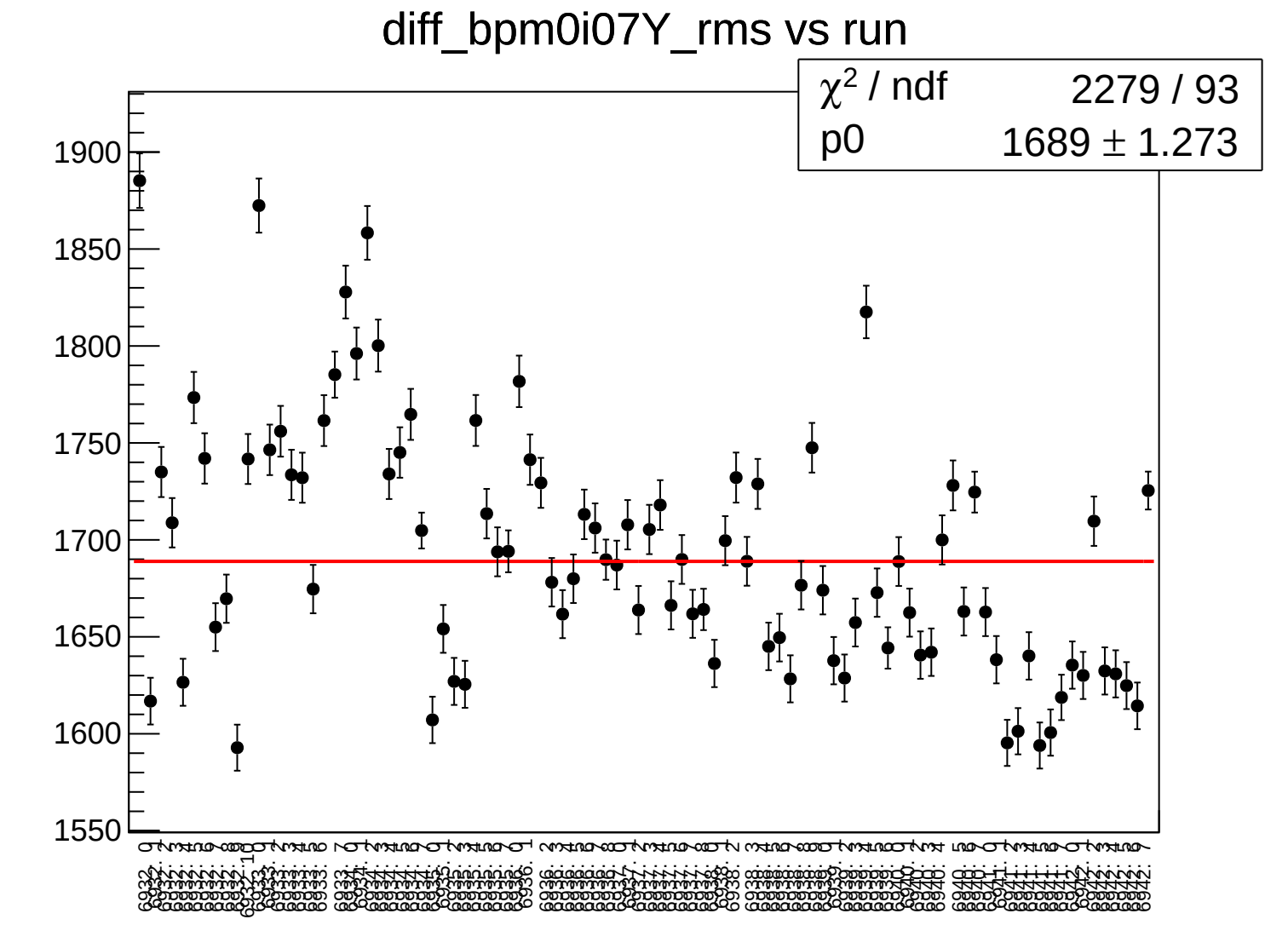

diff_bpm0i07X_mean vs run
χ² / ndf 111.9 / 93
p0 23.23 ± 2.08
pull
Entries 94
Mean 566.5
Std Dev 0

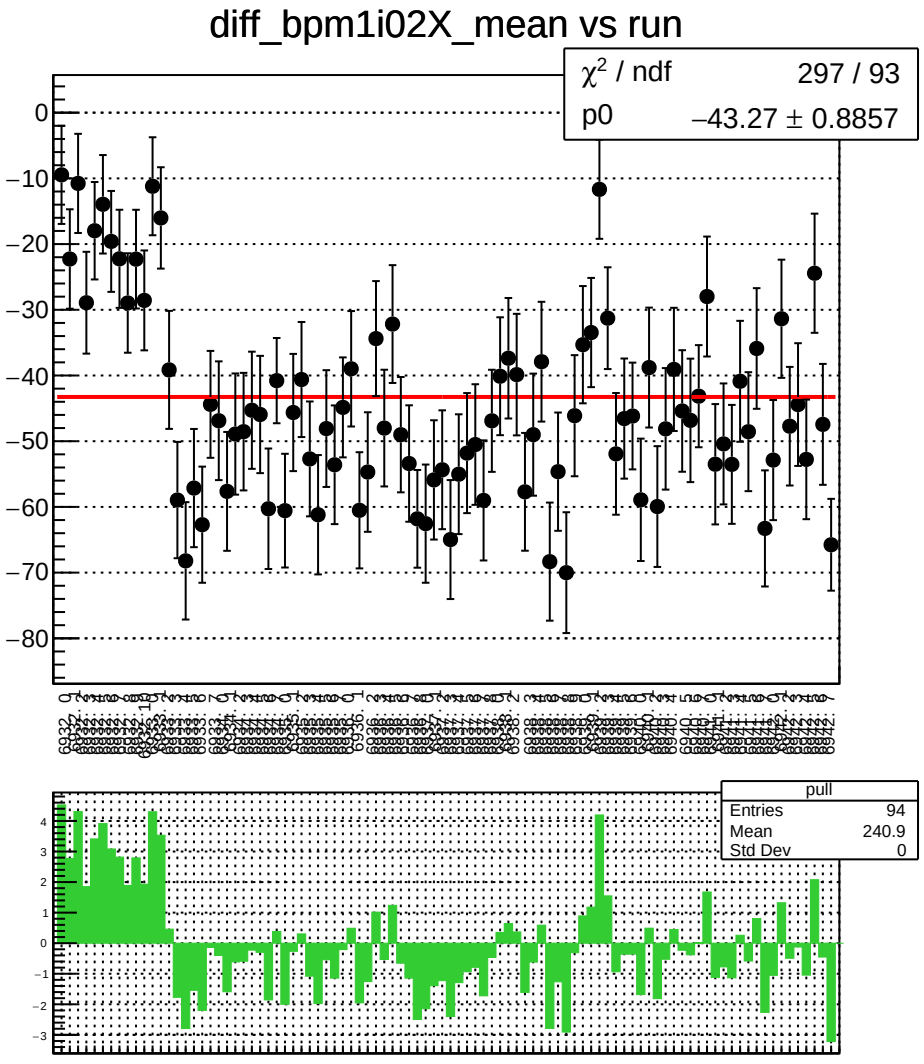

pull1D
Entries 94
Mean 0.005084
Std Dev 1.091

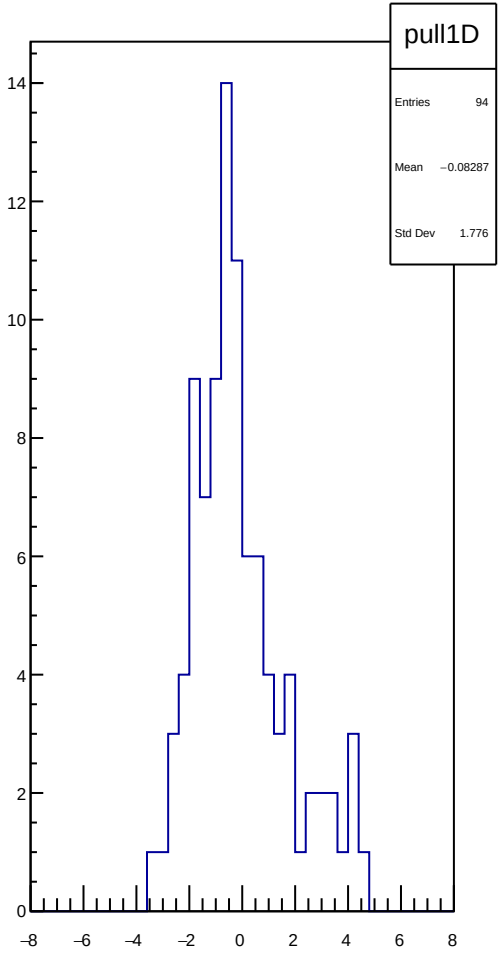

diff_bpm0i07X_rms vs run
χ² / ndf 4476 / 93
p0 1951 ± 1.471
2200
2100
2000
1900
1800
1700

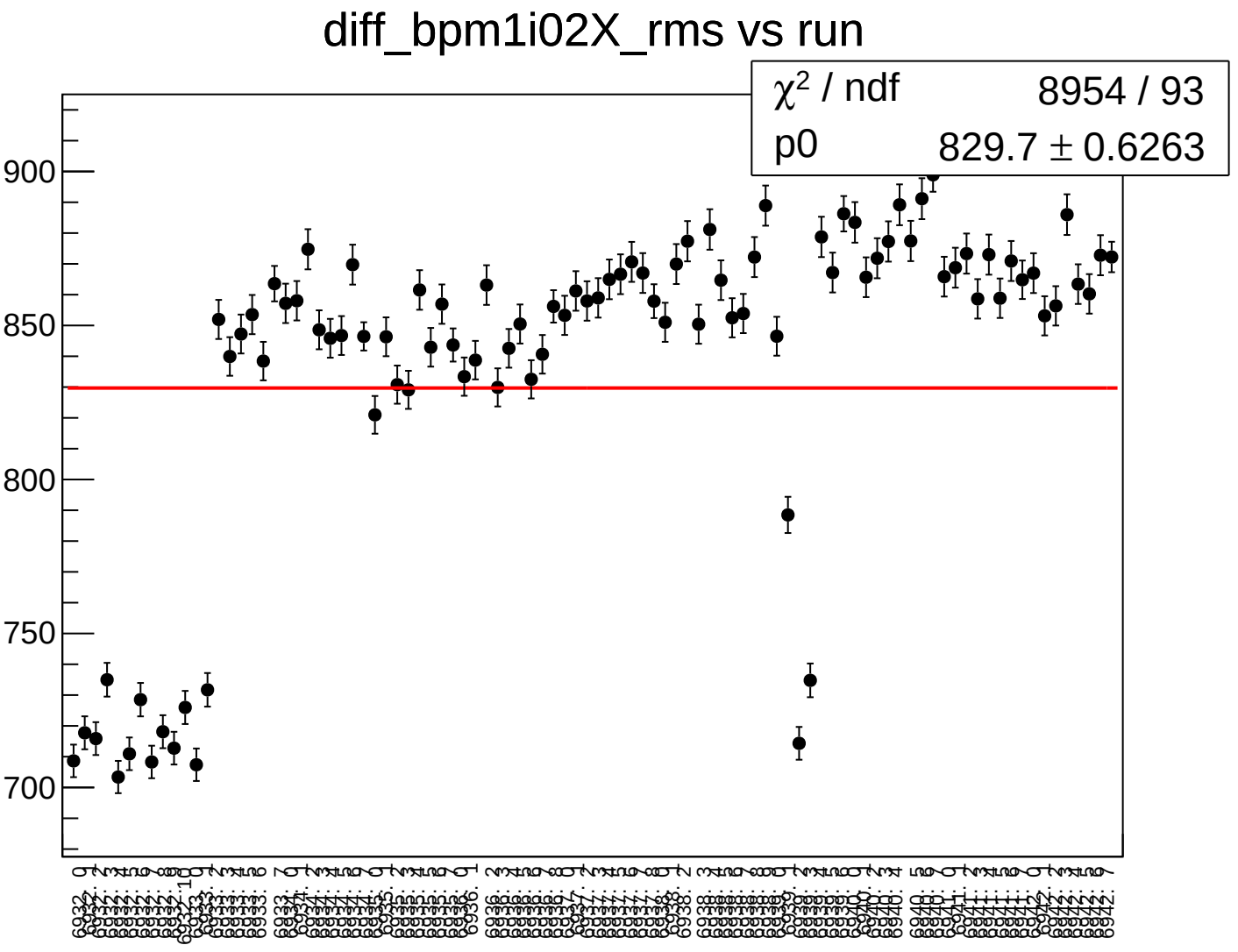

diff_bpm0i07Y_mean vs run
χ² / ndf 125.6 / 93
p0 4.738 ± 1.8
pull
Entries 94
Mean 506
Std Dev 0

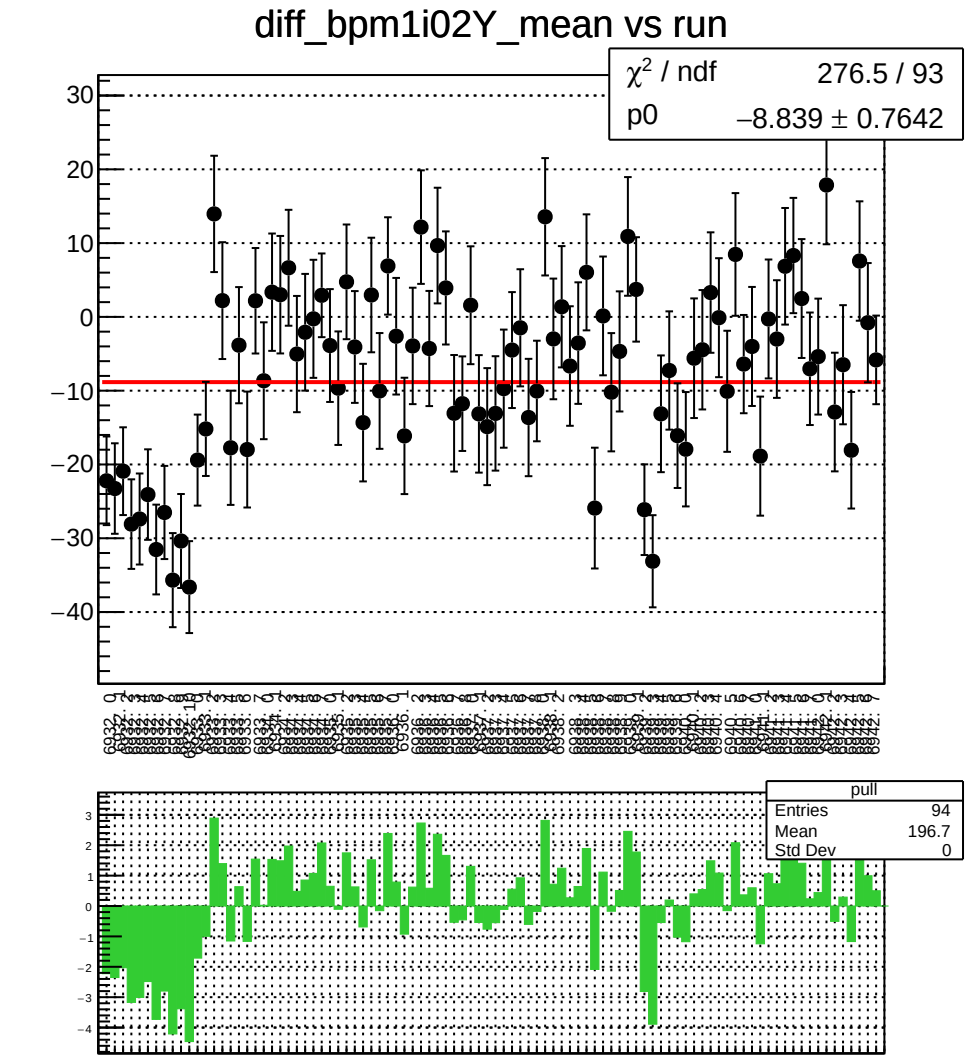

pull1D
Entries 94
Mean −0.008867
Std Dev 1.156

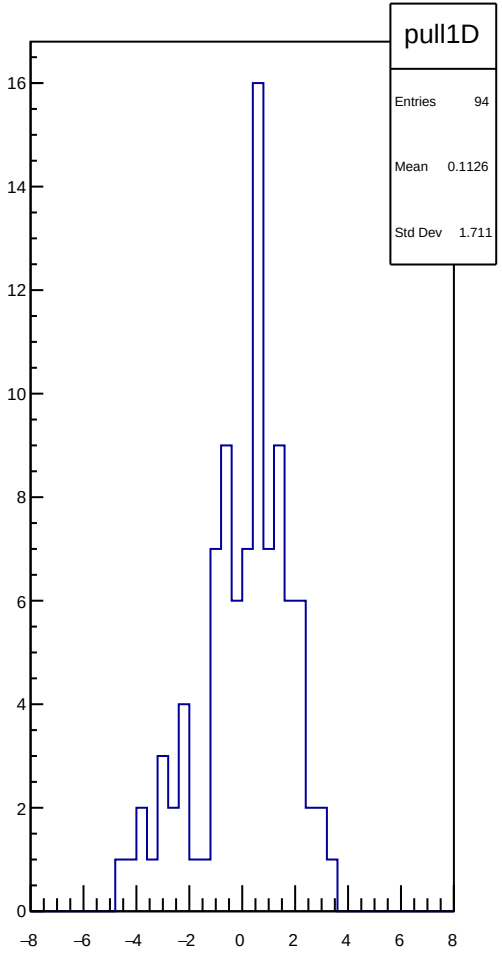

diff_bpm0i07Y_rms vs run
χ² / ndf 2279 / 93
p0 1689 ± 1.273
1900
1850
1800
1750
1700
1650
1600
1550

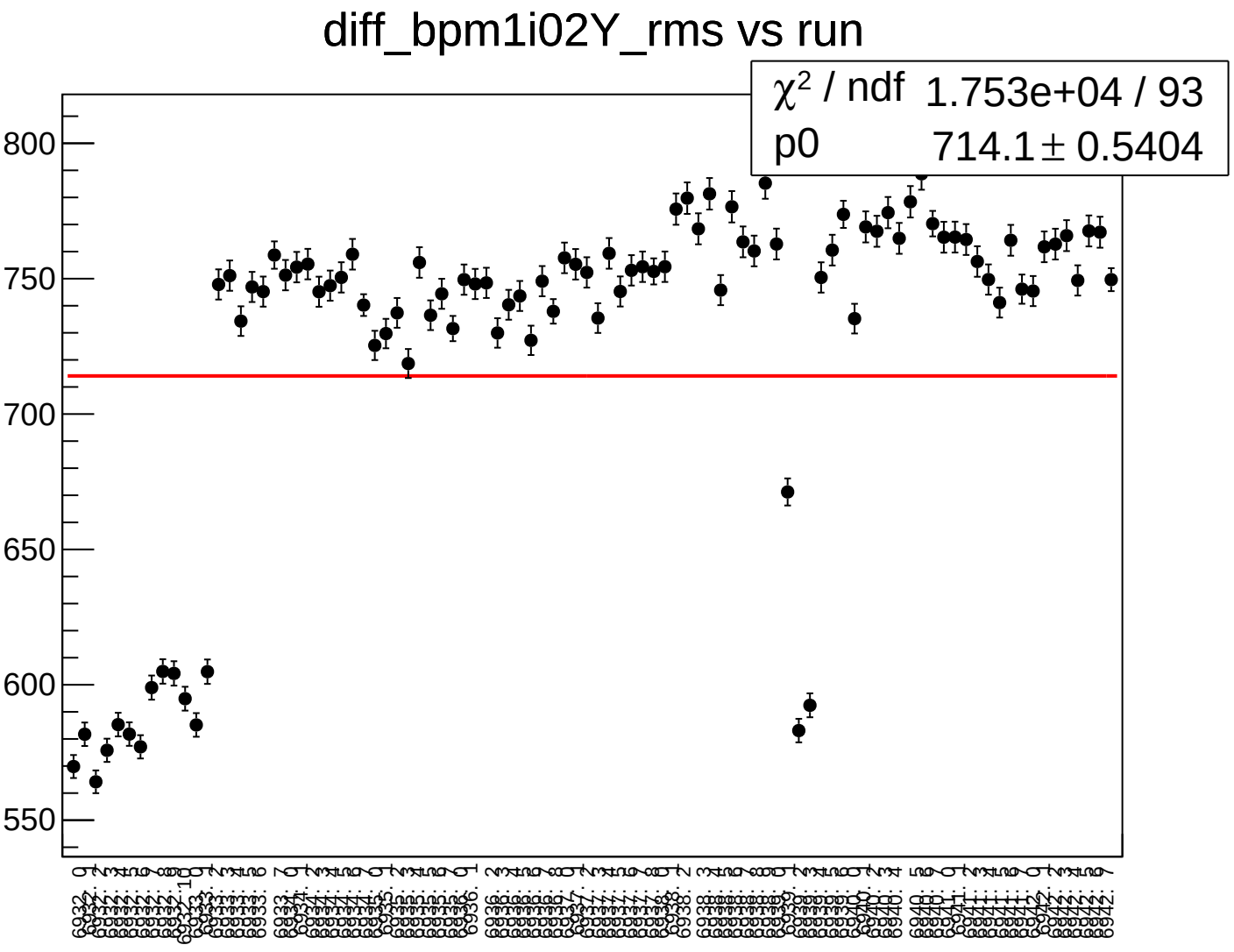

diff_bpm1i02X_mean vs run
χ² / ndf 297 / 93
p0 −43.27 ± 0.8857
pull
Entries 94
Mean 240.9
Std Dev 0

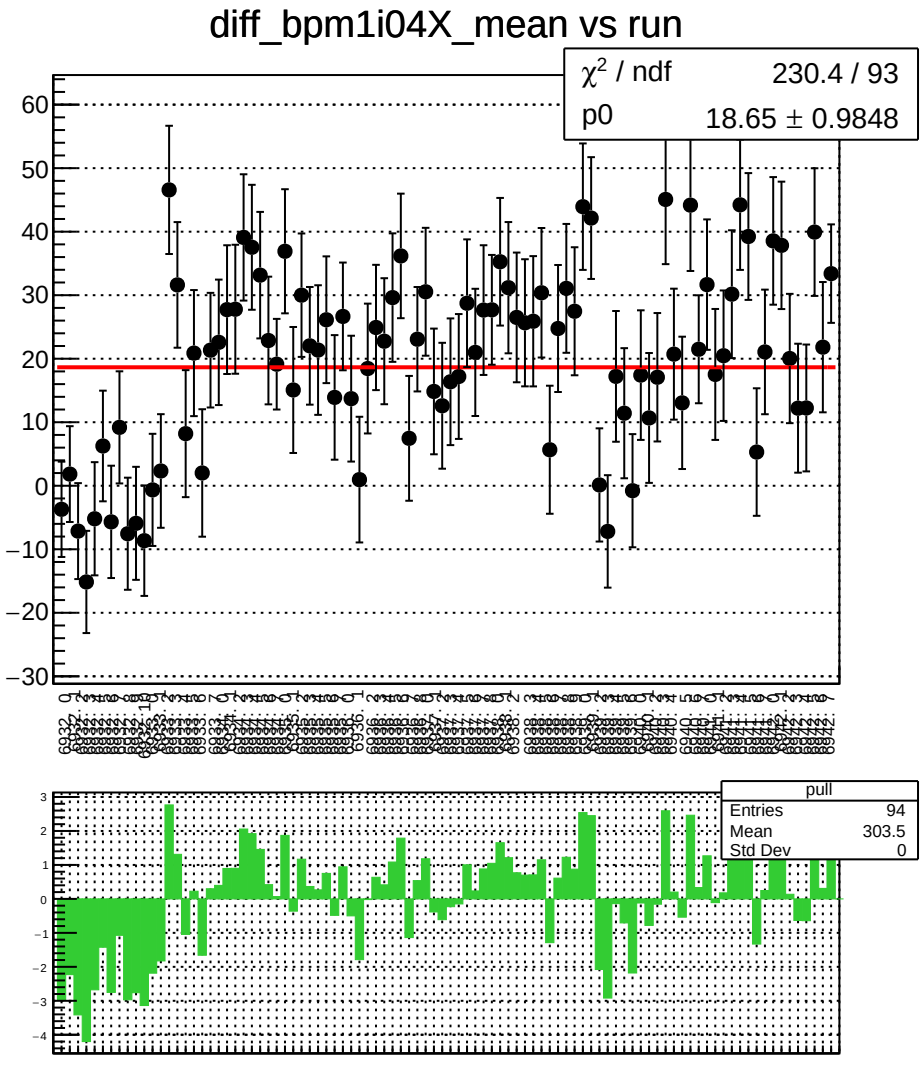

pull1D
Entries 94
Mean −0.08287
Std Dev 1.776

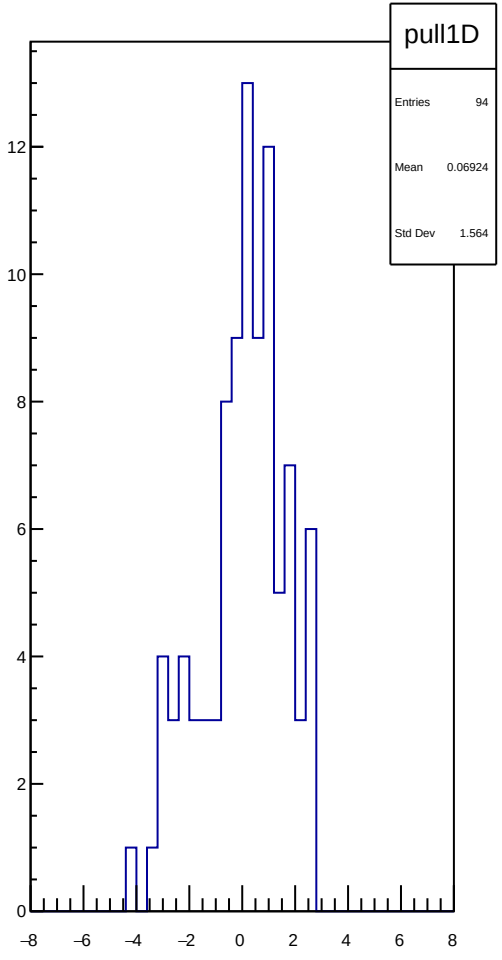

diff_bpm1i02X_rms vs run
χ² / ndf 8954 / 93
p0 829.7 ± 0.6263
900
850
800
750
700

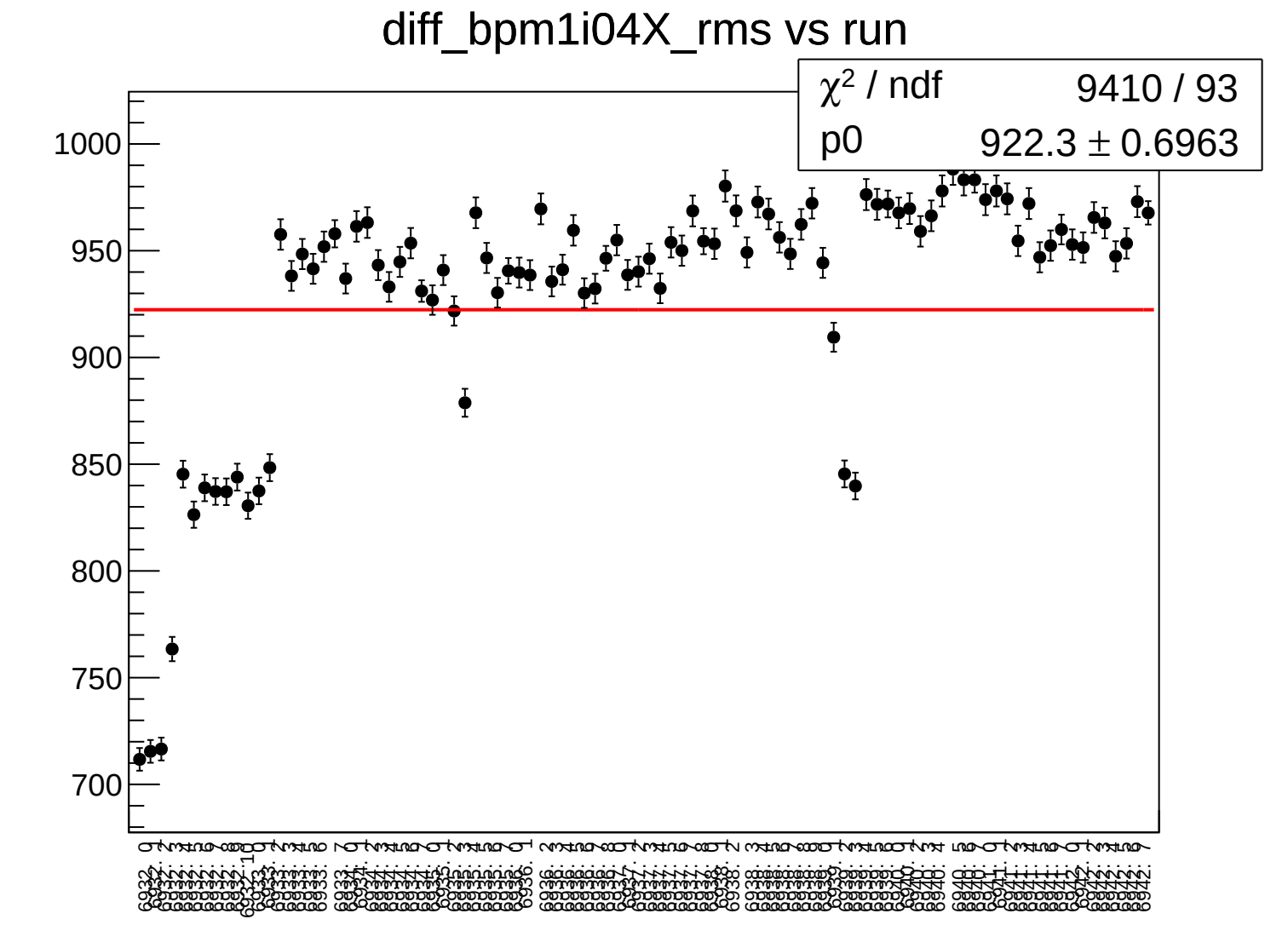

diff_bpm1i02Y_mean vs run
χ² / ndf 276.5 / 93
p0 −8.839 ± 0.7642
pull
Entries 94
Mean 196.7
Std Dev 0

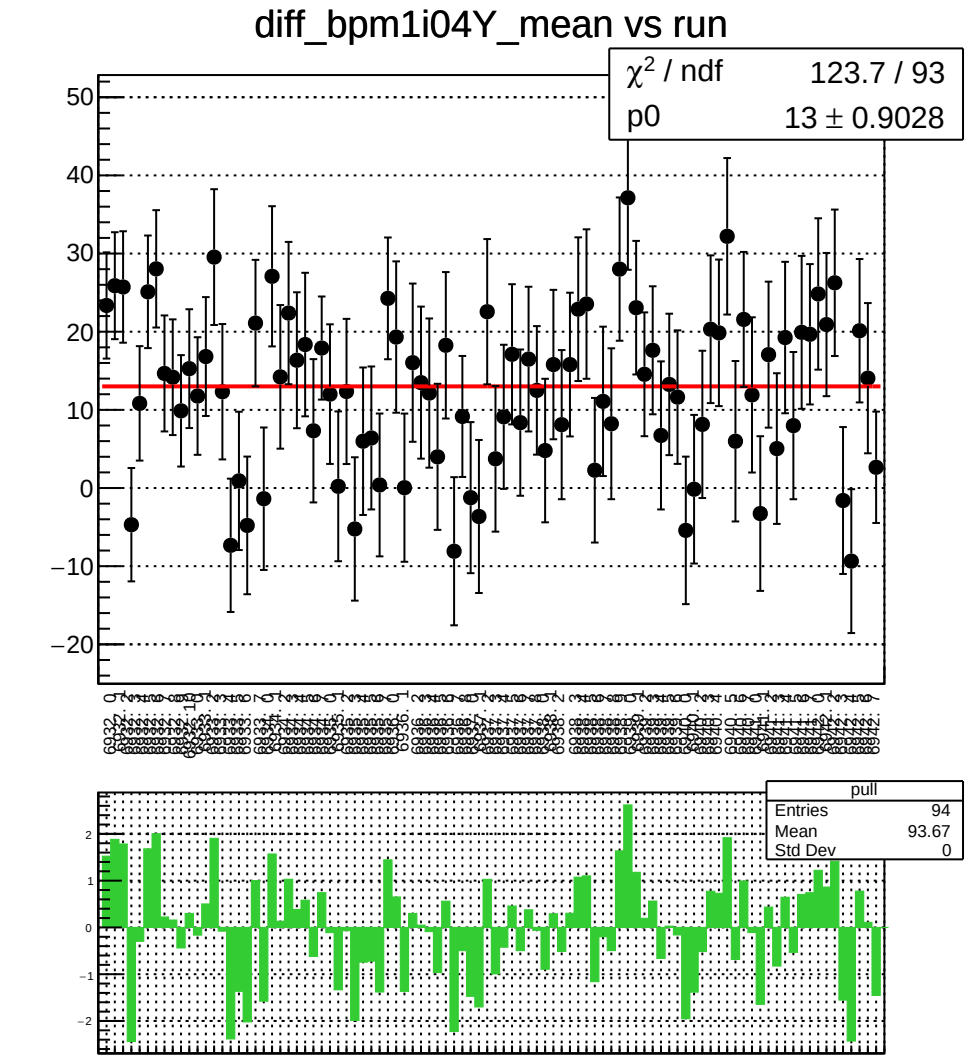

pull1D
Entries 94
Mean 0.1126
Std Dev 1.711

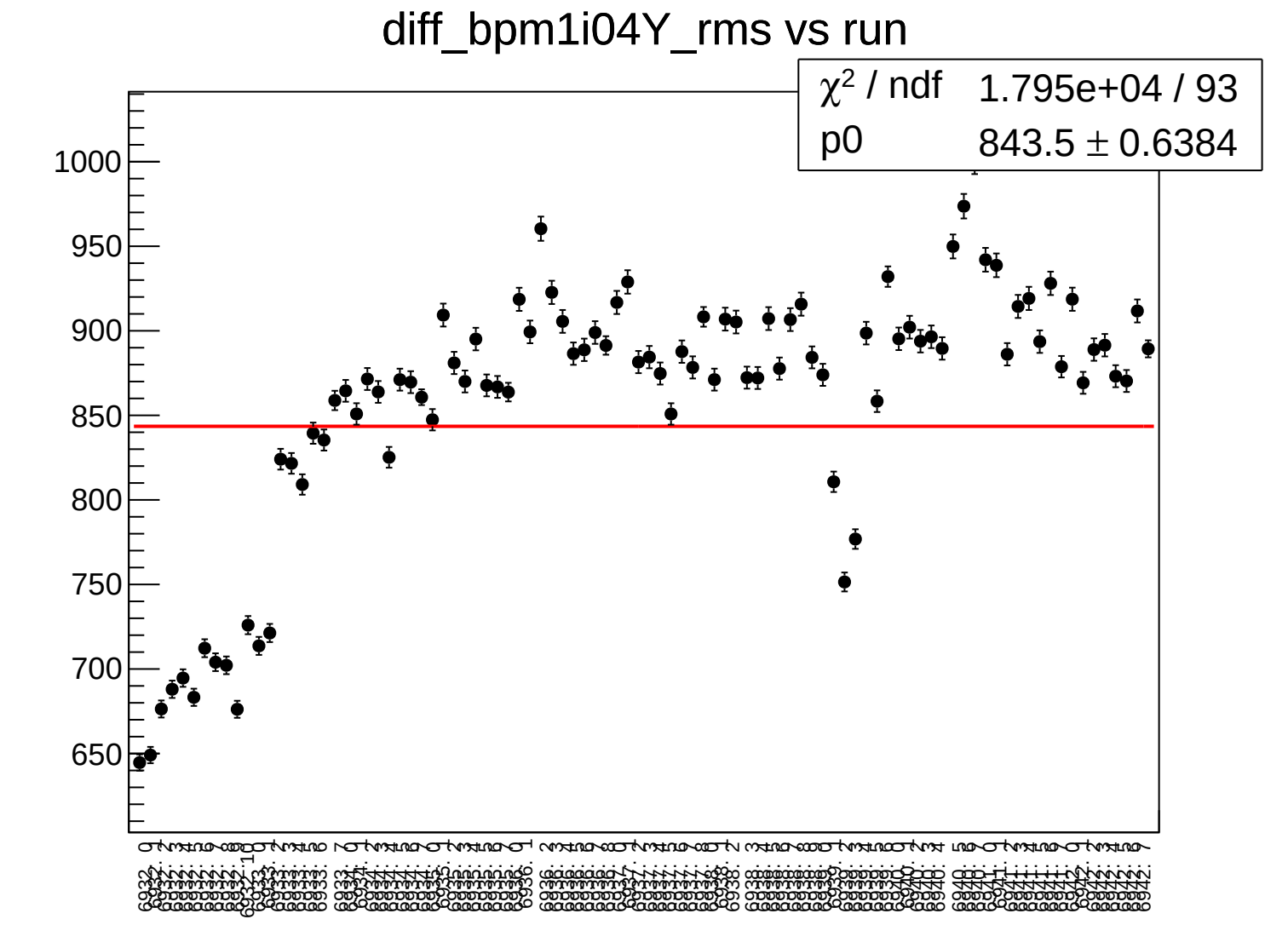

diff_bpm1i02Y_rms vs run
χ² / ndf 1.753e+04 / 93
p0 714.1 ± 0.5404
800
750
700
650
600
550

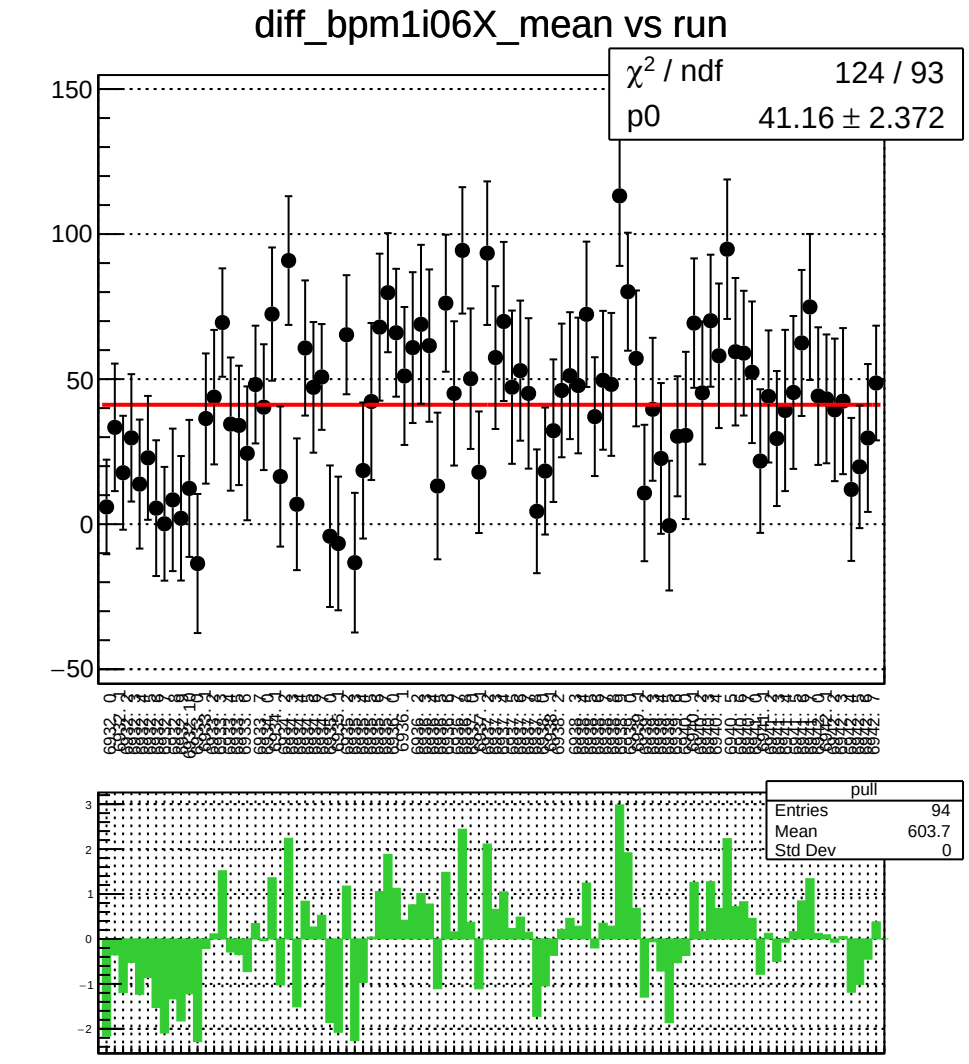

diff_bpm1i04X_mean vs run
χ² / ndf 230.4 / 93
p0 18.65 ± 0.9848
pull
Entries 94
Mean 303.5
Std Dev 0

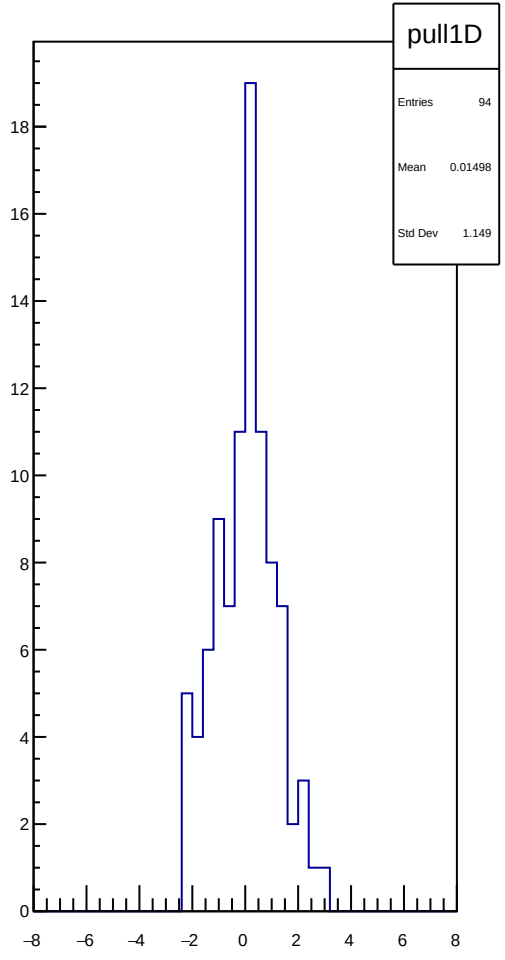

pull1D
Entries 94
Mean 0.06924
Std Dev 1.564

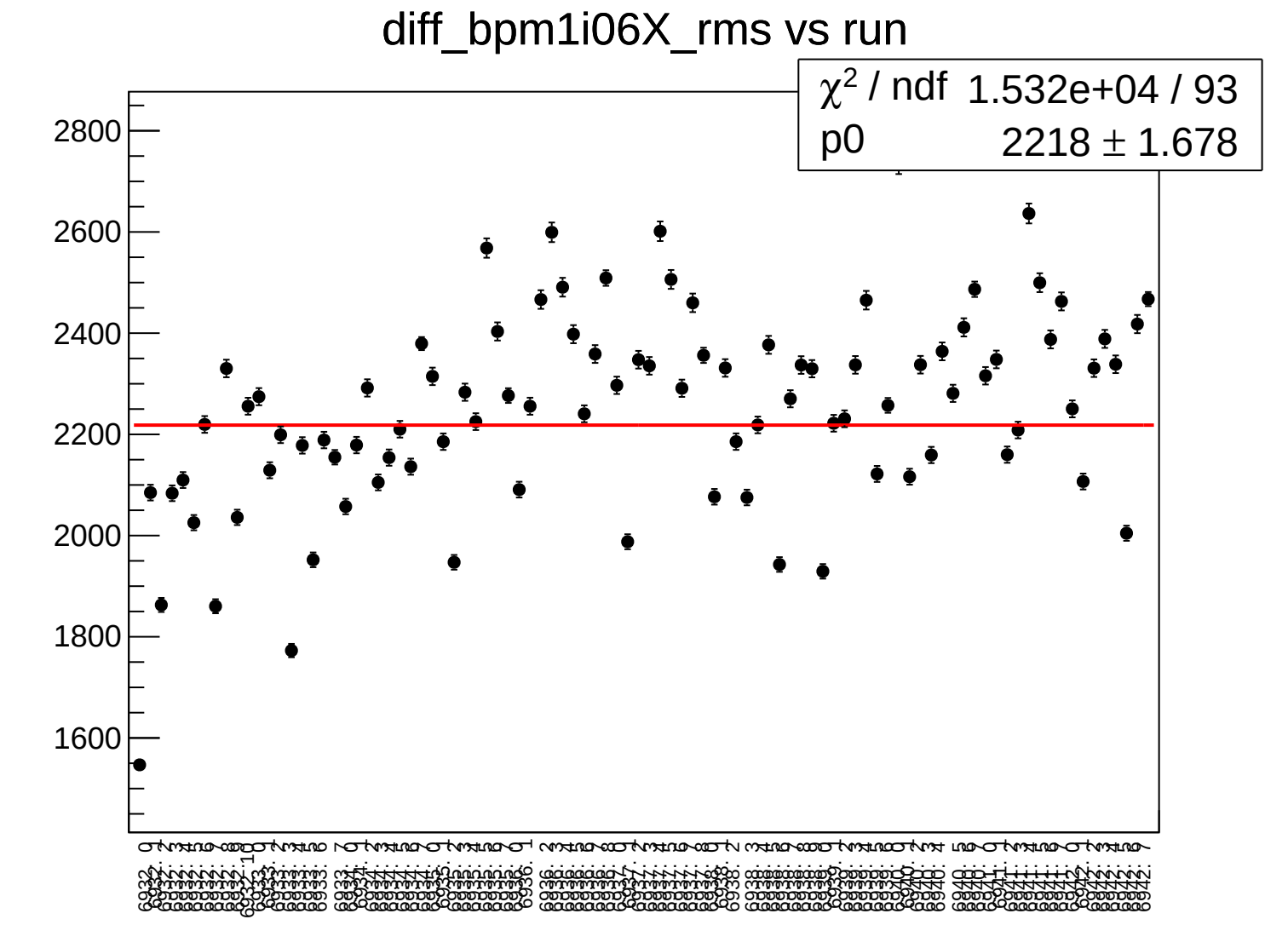

diff_bpm1i04X_rms vs run
χ² / ndf 9410 / 93
p0 922.3 ± 0.6963
1000
950
900
850
800
750
700

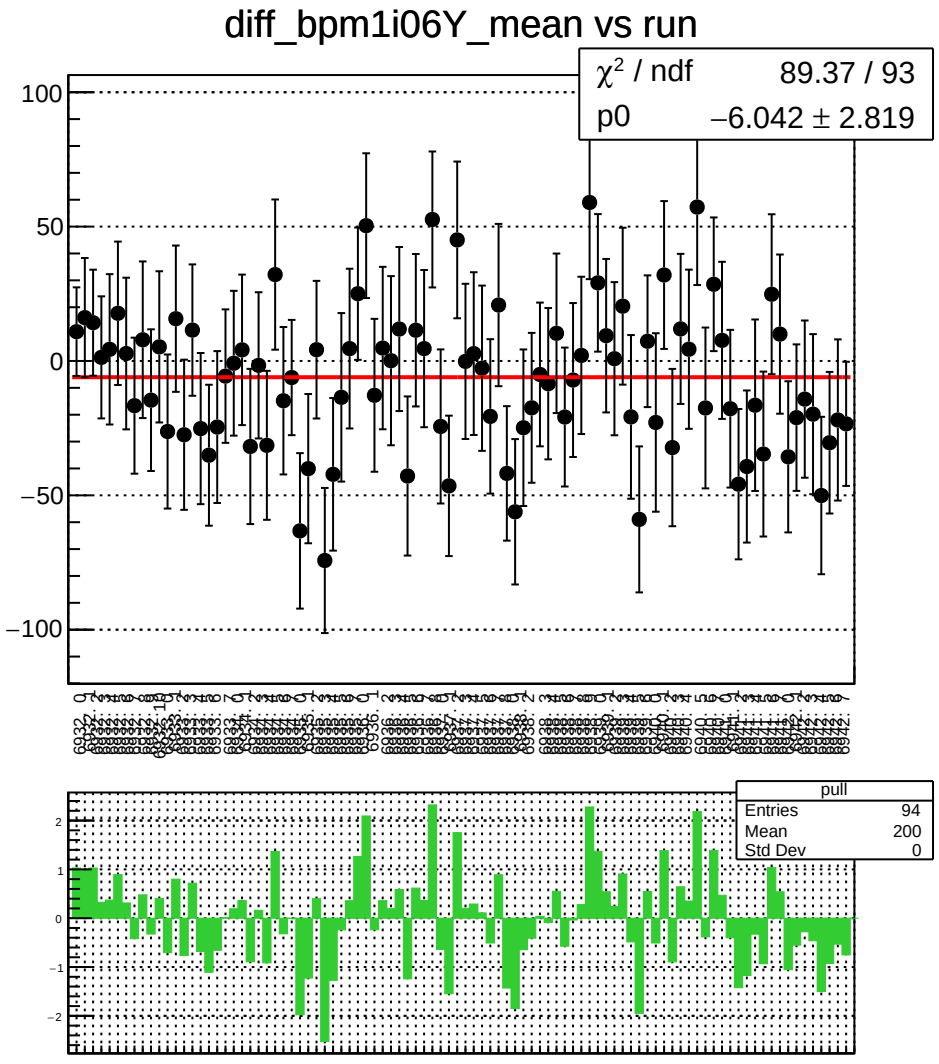

diff_bpm1i04Y_mean vs run
χ² / ndf 123.7 / 93
p0 13 ± 0.9028
pull
Entries 94
Mean 93.67
Std Dev 0
pull1D
Entries 94
Mean −0.02764
Std Dev 1.147

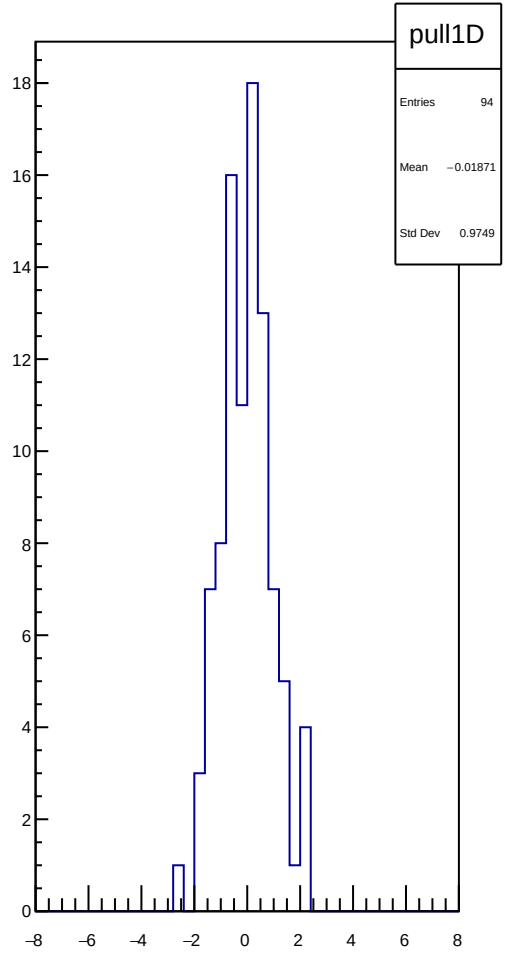

diff_bpm1i04Y_rms vs run
χ² / ndf 1.795e+04 / 93
p0 843.5 ± 0.6384
1000
950
900
850
800
750
700
650

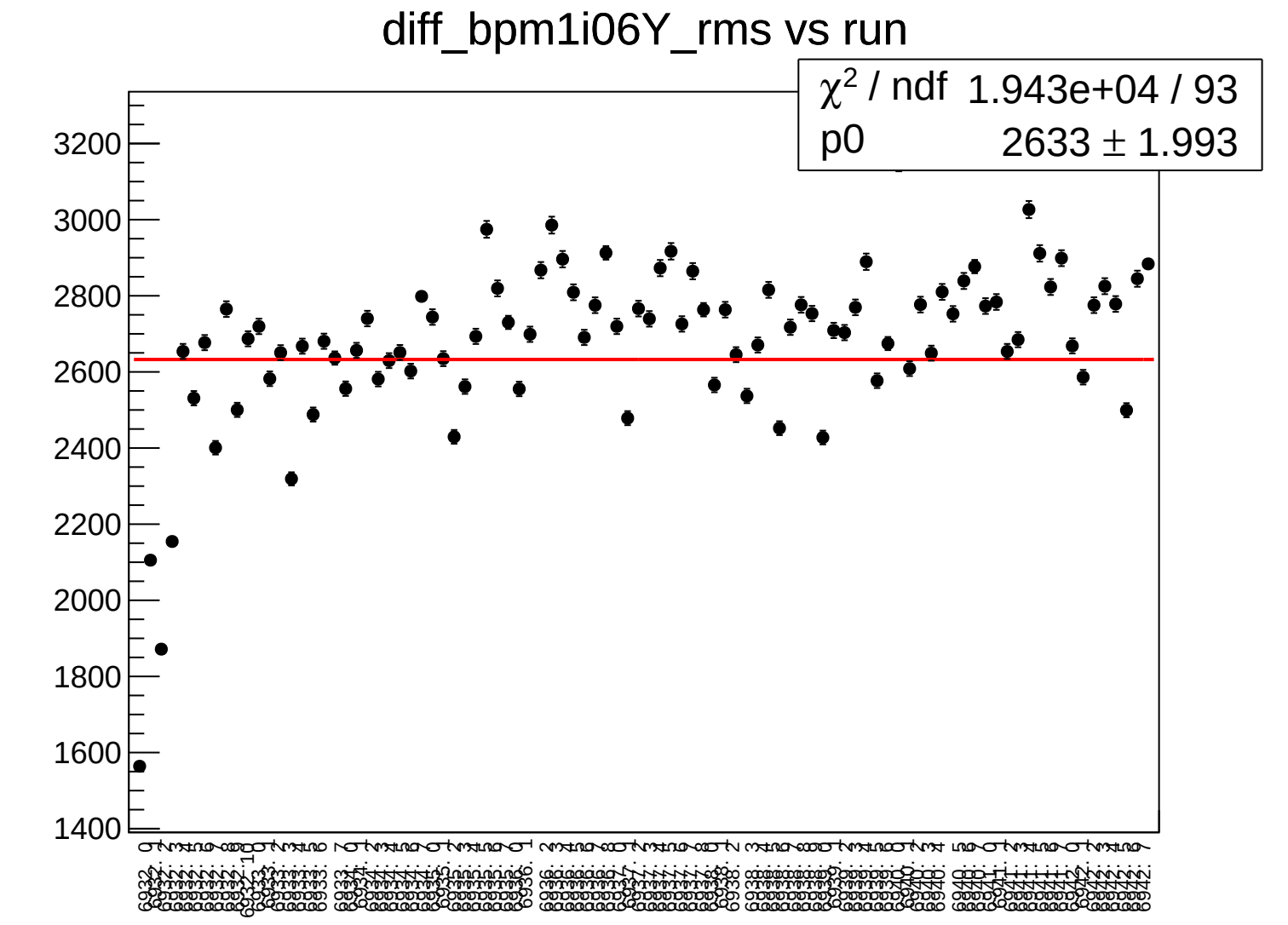

diff_bpm1i06X_mean vs run
χ² / ndf 124 / 93
p0 41.16 ± 2.372
150
100
50
0
−50
pull
Entries 94
Mean 603.7
Std Dev 0
3
2
1
0
−1
−2

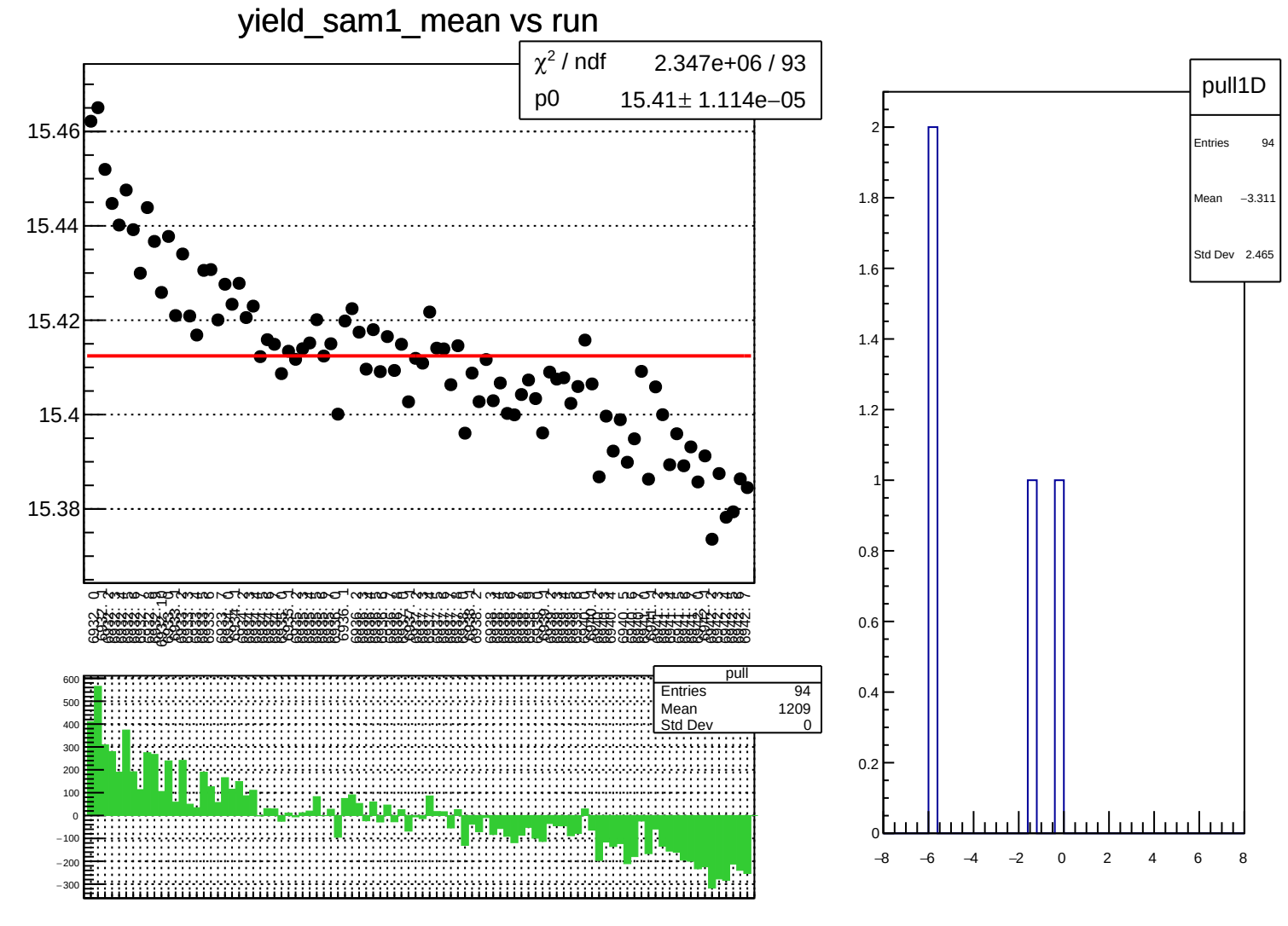

pull1D
Entries 94
Mean 0.01498
Std Dev 1.149
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

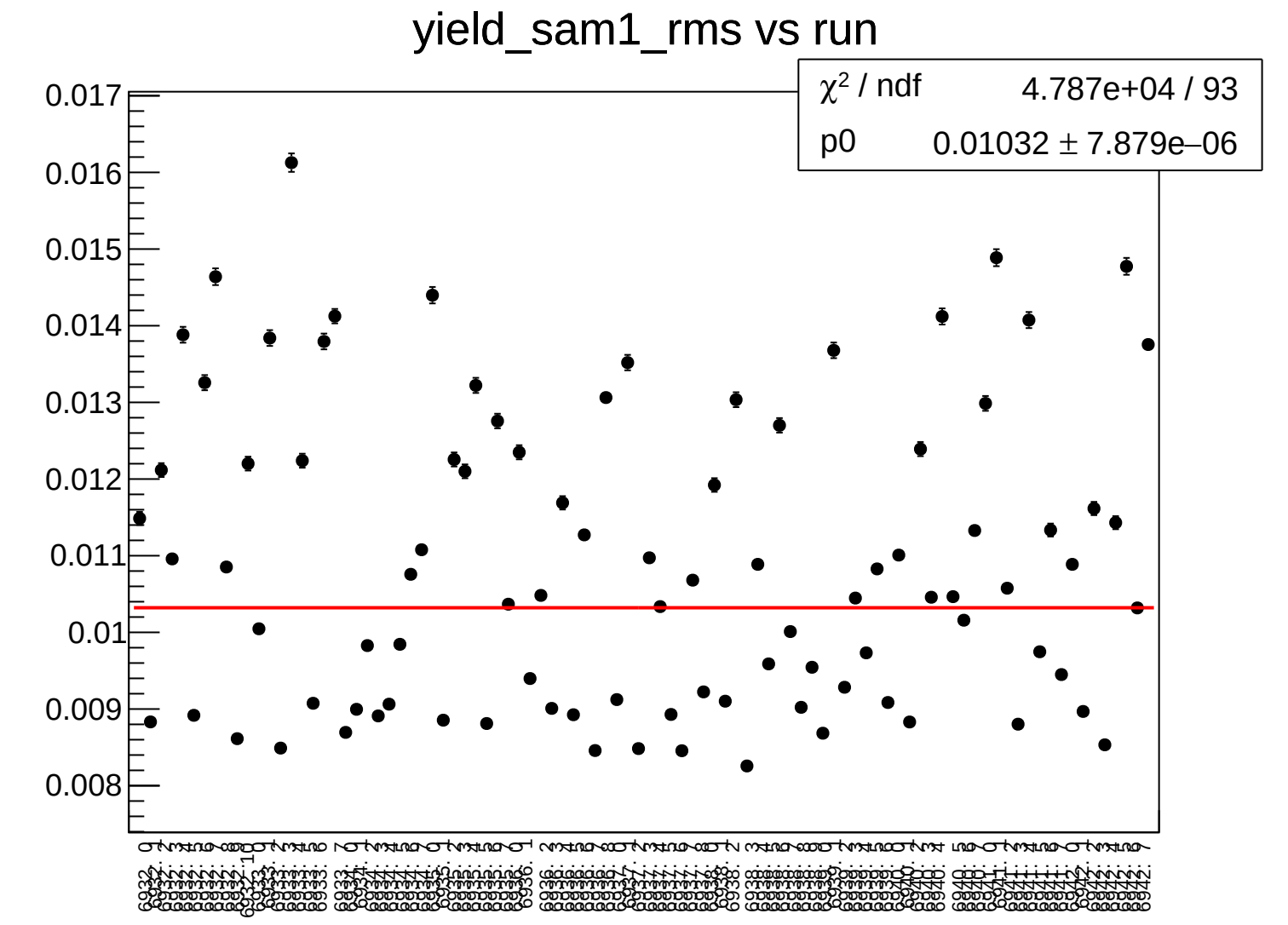

diff_bpm1i06X_rms vs run
χ² / ndf 1.532e+04 / 93
p0 2218 ± 1.678
2800
2600
2400
2200
2000
1800
1600

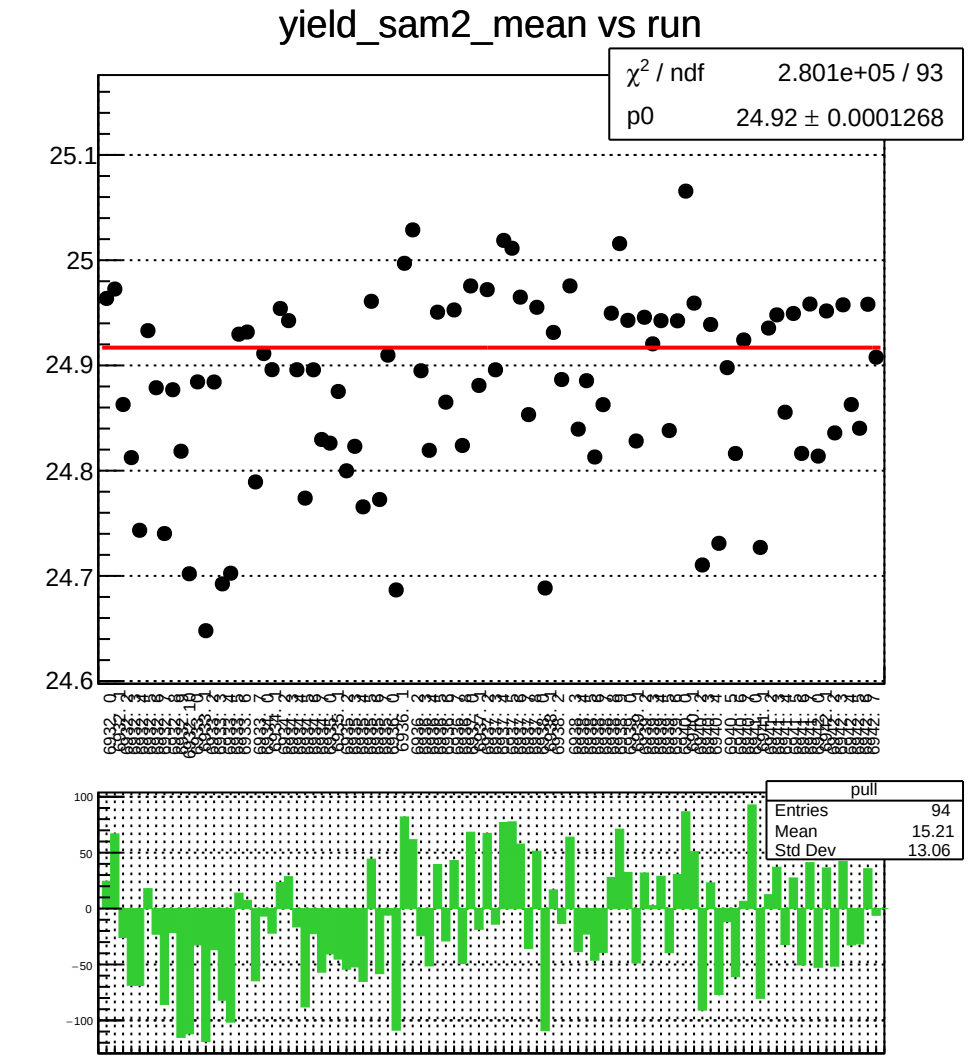

diff_bpm1i06Y_mean vs run
χ² / ndf 89.37 / 93
p0 −6.042 ± 2.819
100
50
0
−50
−100
pull
Entries 94
Mean 200
Std Dev 0
2
1
0
−1
−2

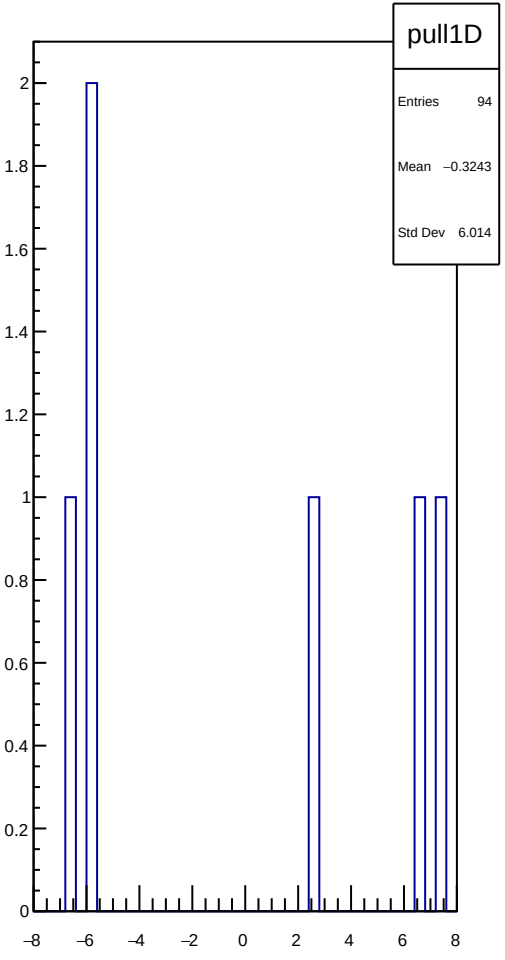

pull1D
Entries 94
Mean −0.01871
Std Dev 0.9749
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

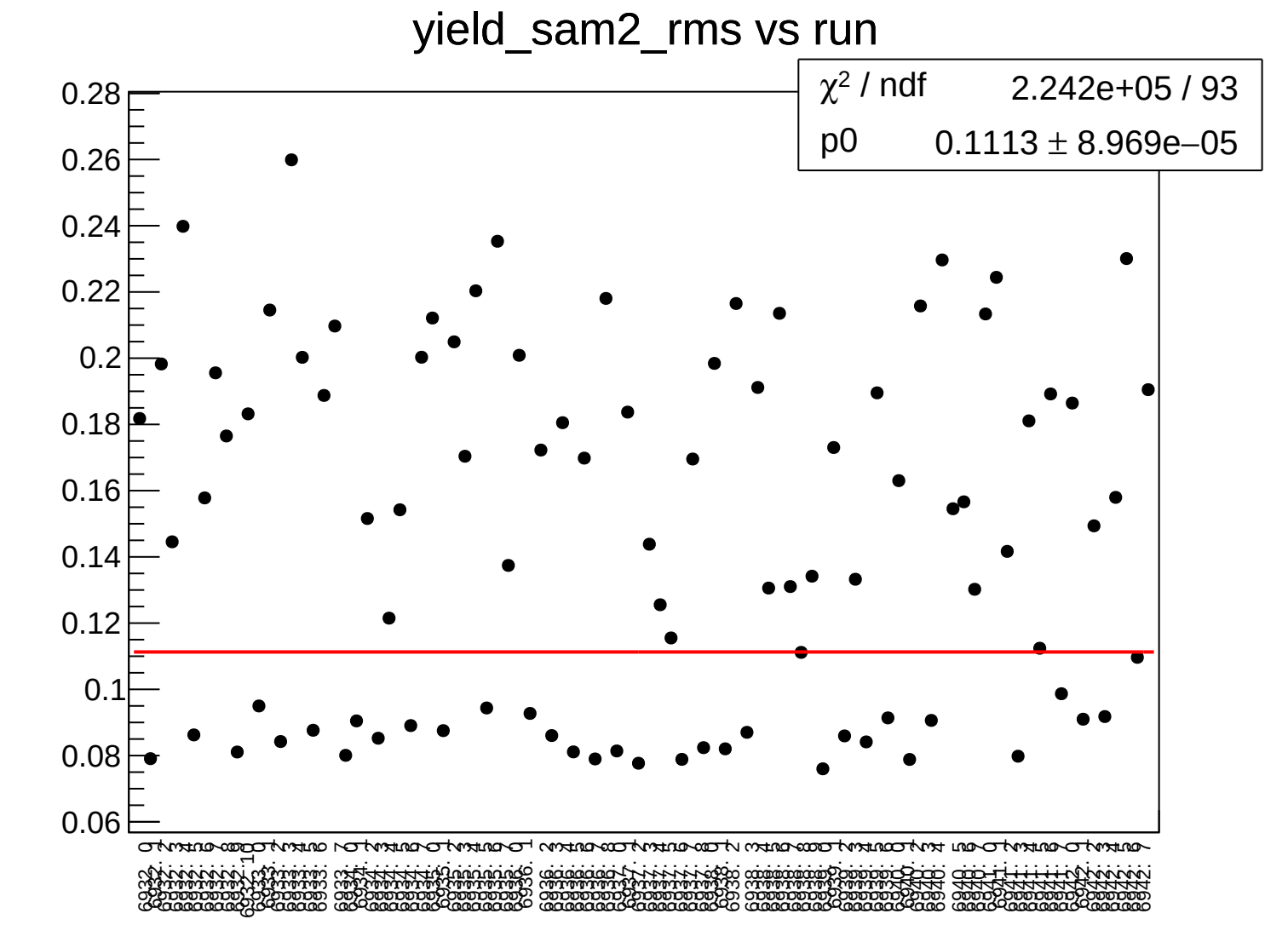

diff_bpm1i06Y_rms vs run
χ² / ndf 1.943e+04 / 93
p0 2633 ± 1.993
3200
3000
2800
2600
2400
2200
2000
1800
1600
1400

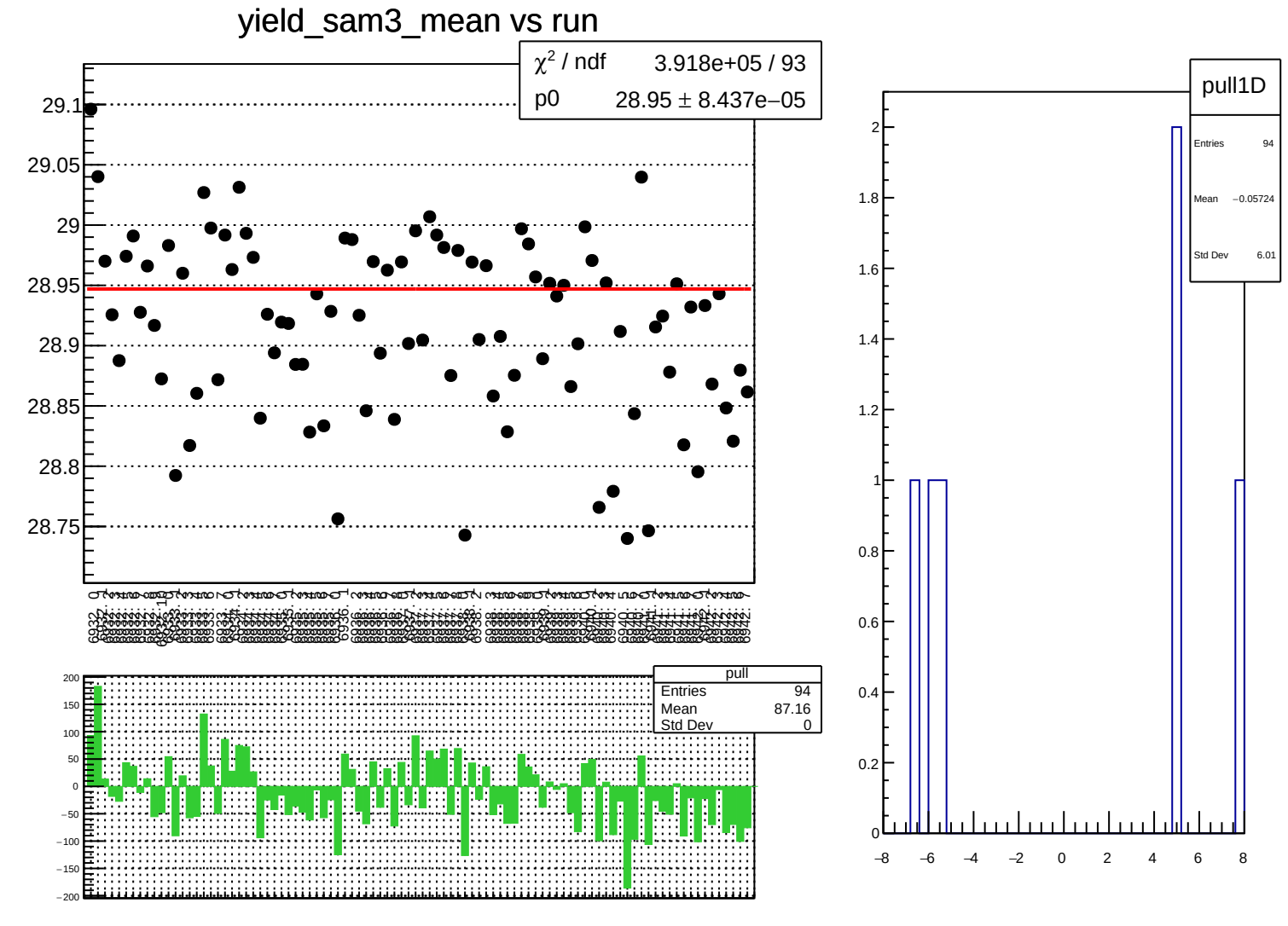

yield_sam1_mean vs run
χ² / ndf 2.347e+06 / 93
p0 15.41± 1.114e−05
15.46
15.44
15.42
15.4
15.38
pull
Entries 94
Mean 1209
Std Dev 0
600
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 94
Mean −3.311
Std Dev 2.465
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

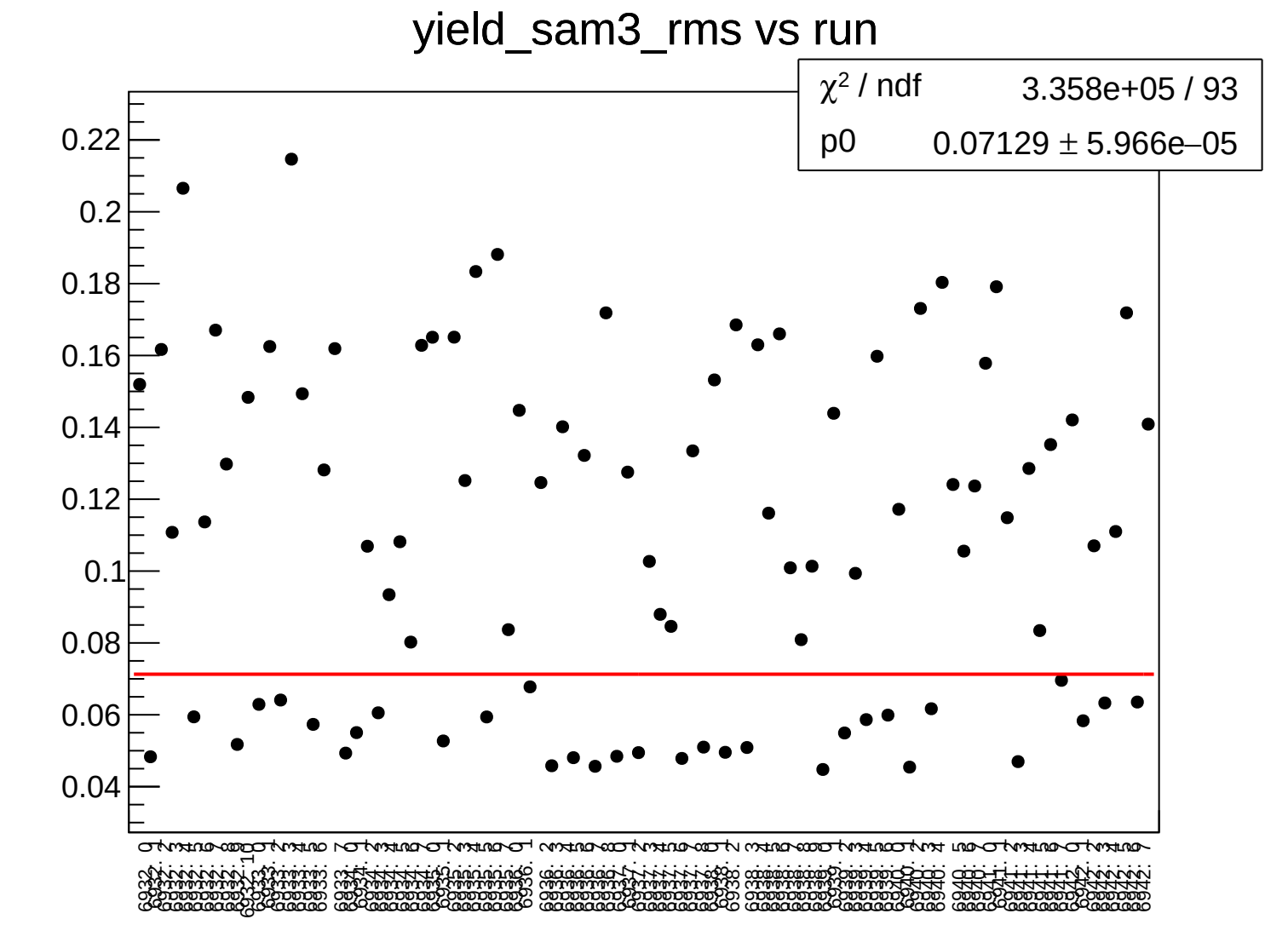

yield_sam1_rms vs run
χ² / ndf 4.787e+04 / 93
p0 0.01032 ± 7.879e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

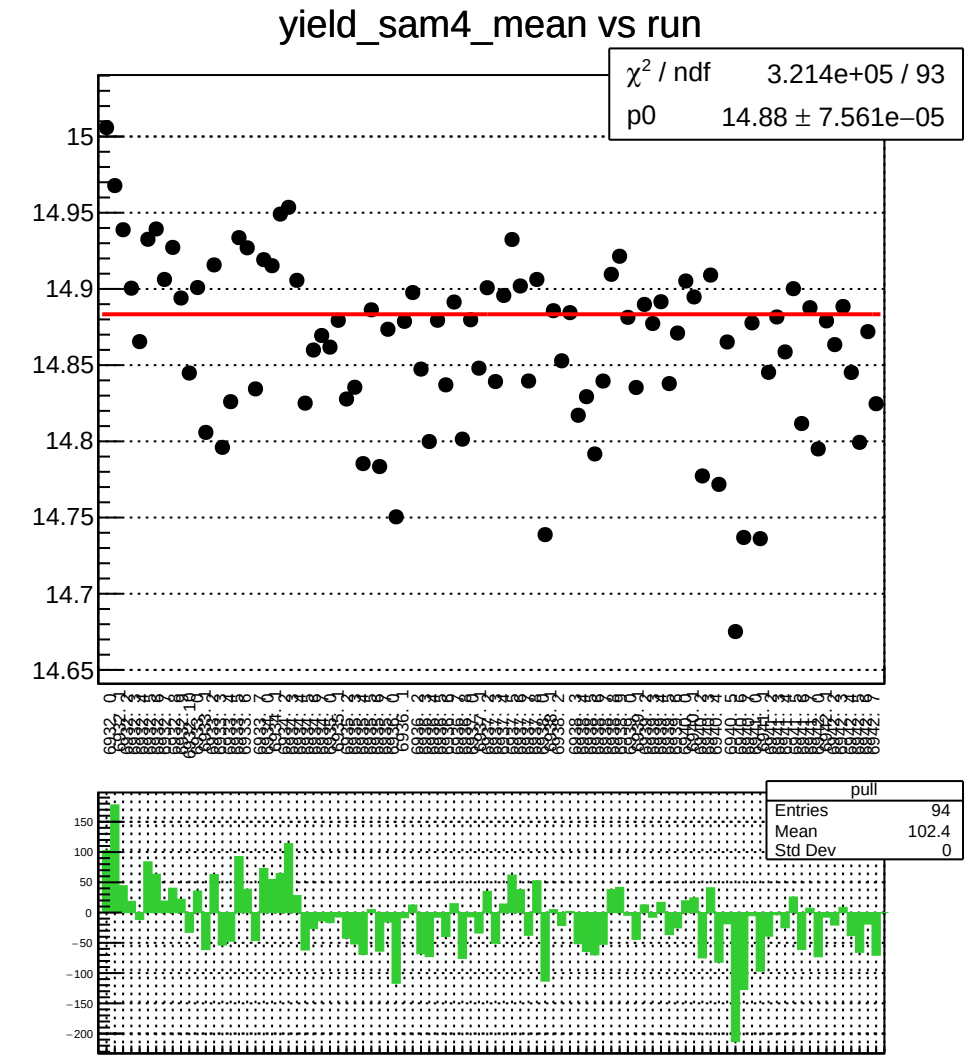

yield_sam2_mean vs run
χ² / ndf 2.801e+05 / 93
p0 24.92 ± 0.0001268
25.1
25
24.9
24.8
24.7
24.6
pull
Entries 94
Mean 15.21
Std Dev 13.06
100
50
0
−50
−100

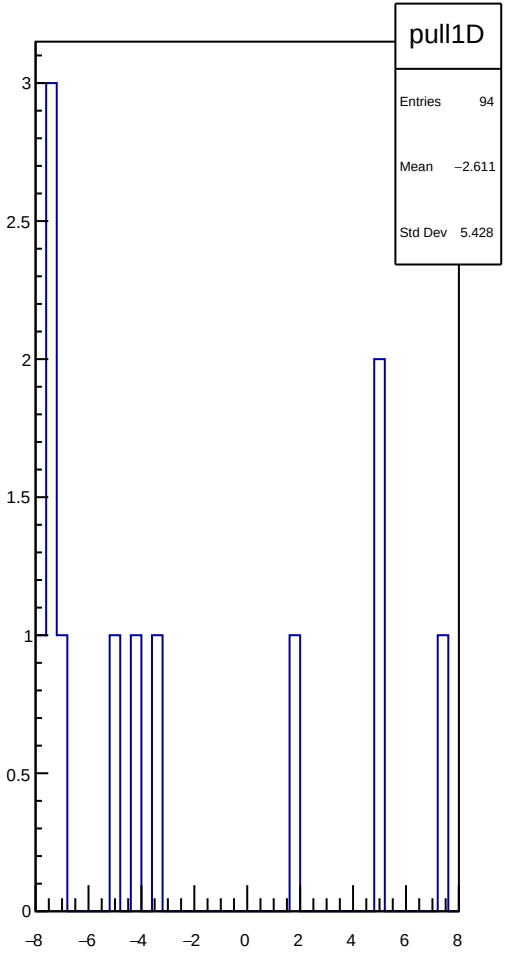

pull1D
Entries 94
Mean −0.3243
Std Dev 6.014
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

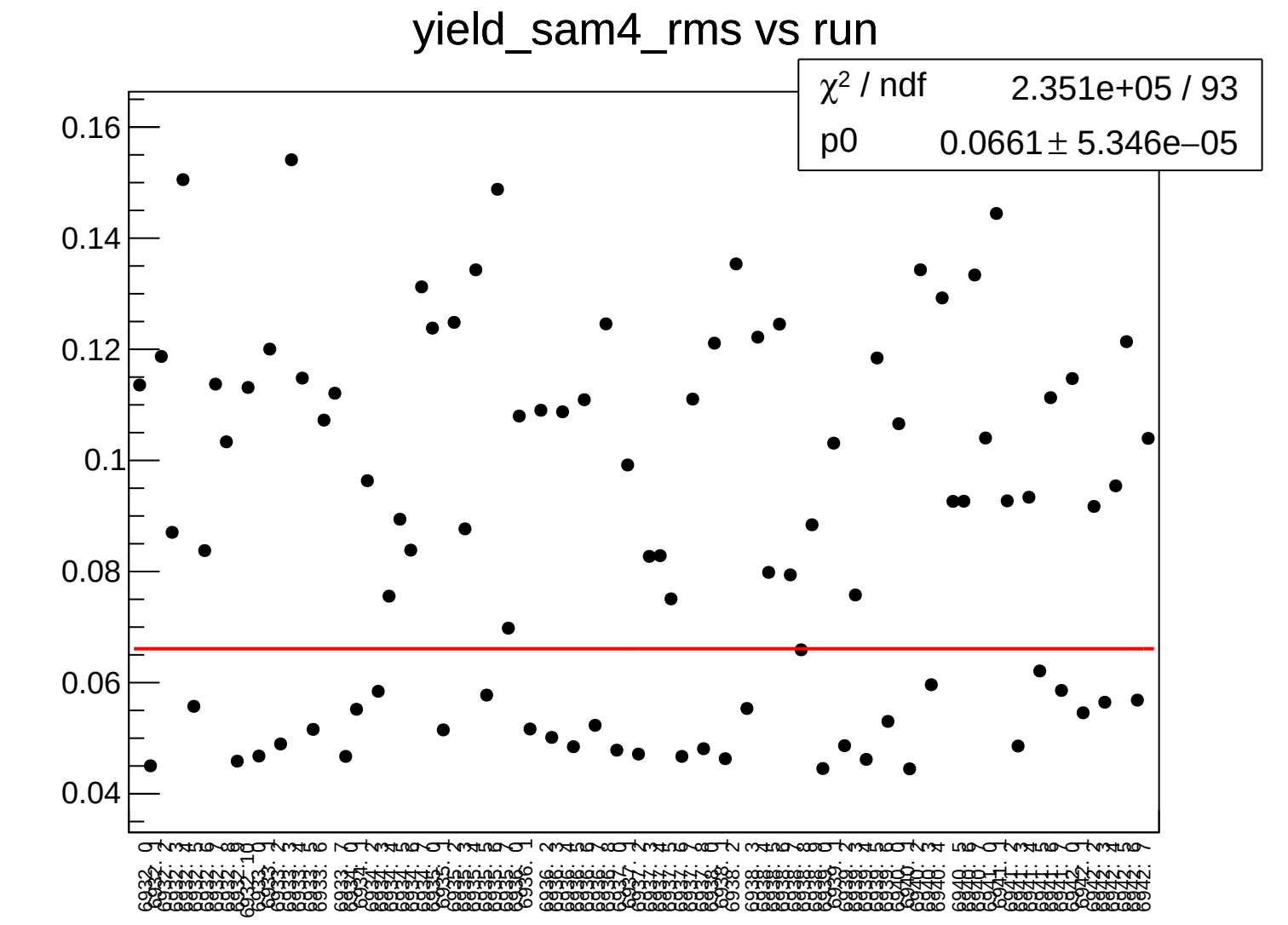

yield_sam2_rms vs run
χ² / ndf 2.242e+05 / 93
p0 0.1113 ± 8.969e−05
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

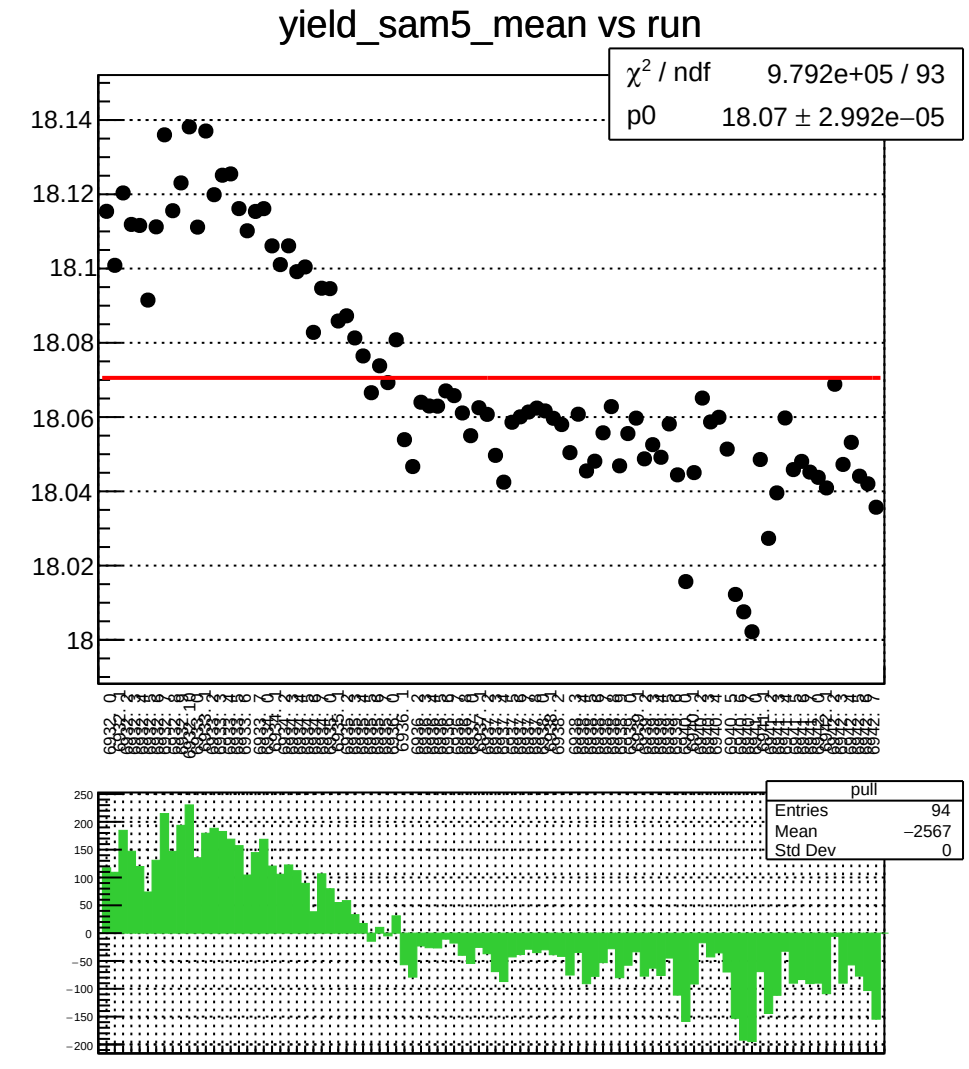

yield_sam3_mean vs run
χ² / ndf 3.918e+05 / 93
p0 28.95 ± 8.437e−05
29.1
29.05
29
28.95
28.9
28.85
28.8
28.75
pull
Entries 94
Mean 87.16
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −0.05724
Std Dev 6.01
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

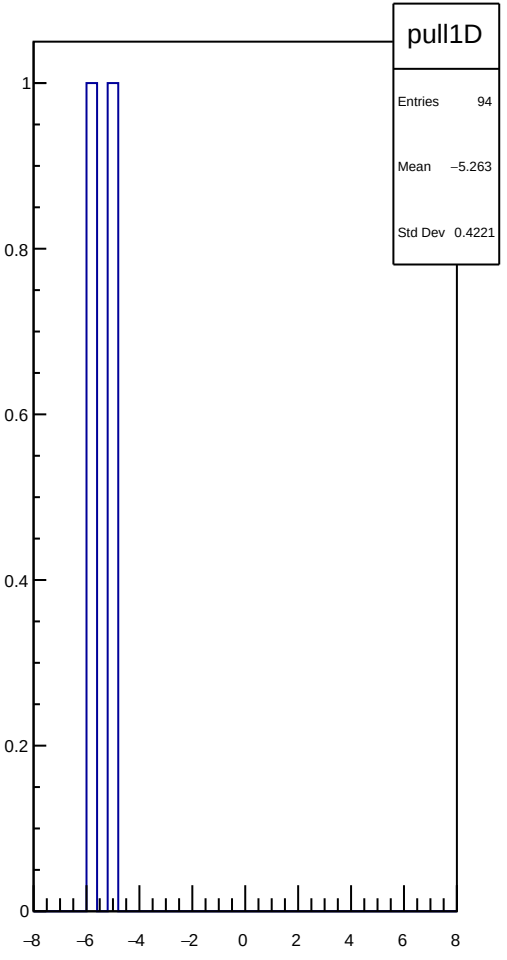

yield_sam3_rms vs run
χ² / ndf 3.358e+05 / 93
p0 0.07129 ± 5.966e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

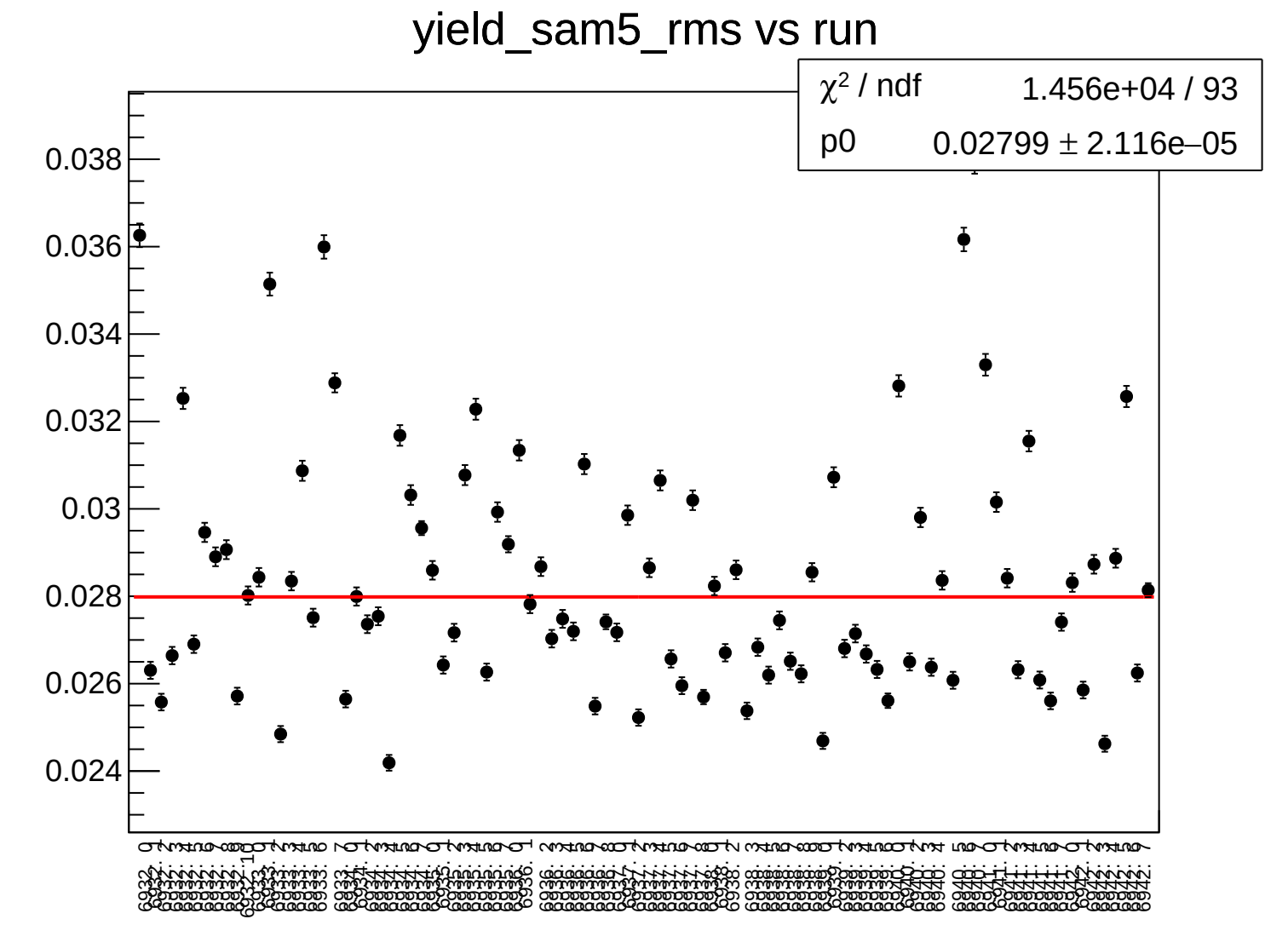

yield_sam4_mean vs run
χ² / ndf 3.214e+05 / 93
p0 14.88 ± 7.561e−05
15
14.95
14.9
14.85
14.8
14.75
14.7
14.65
pull
Entries 94
Mean 102.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200

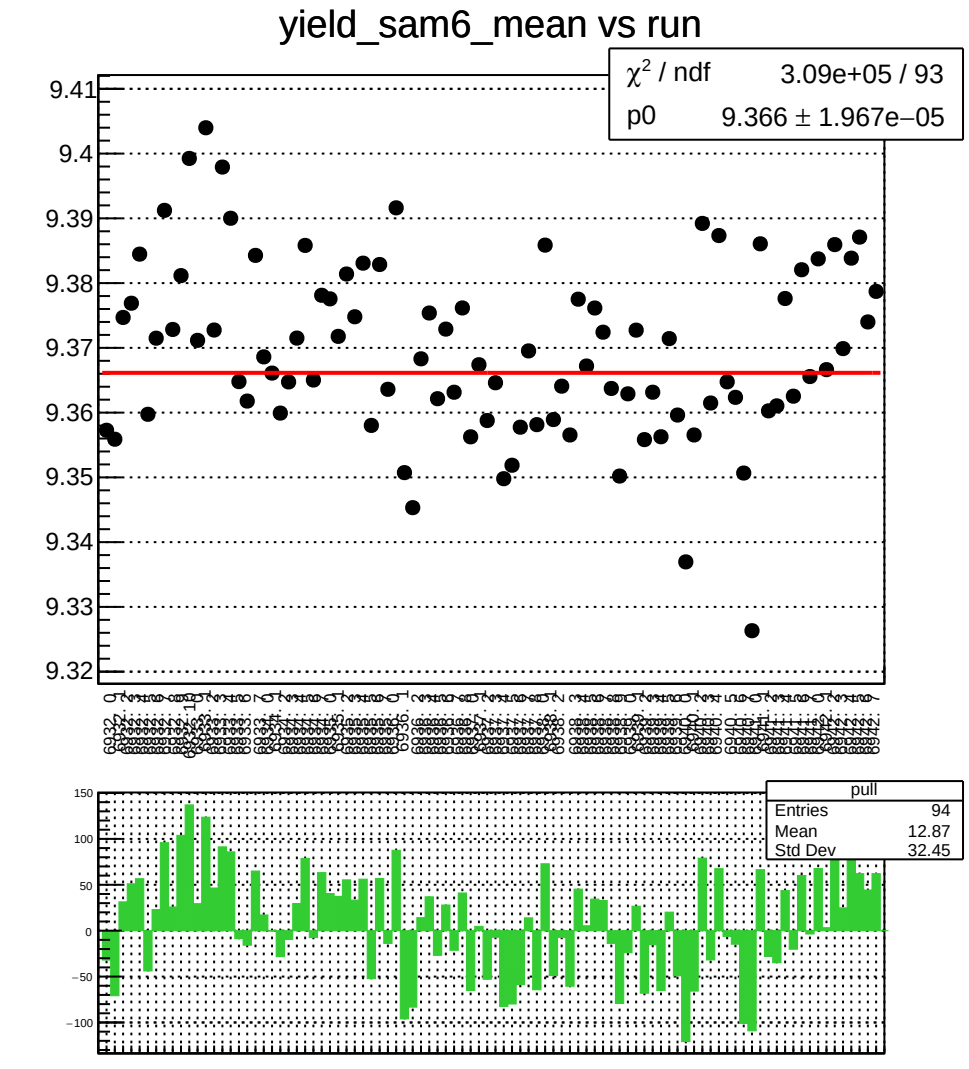

pull1D
Entries 94
Mean −2.611
Std Dev 5.428
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

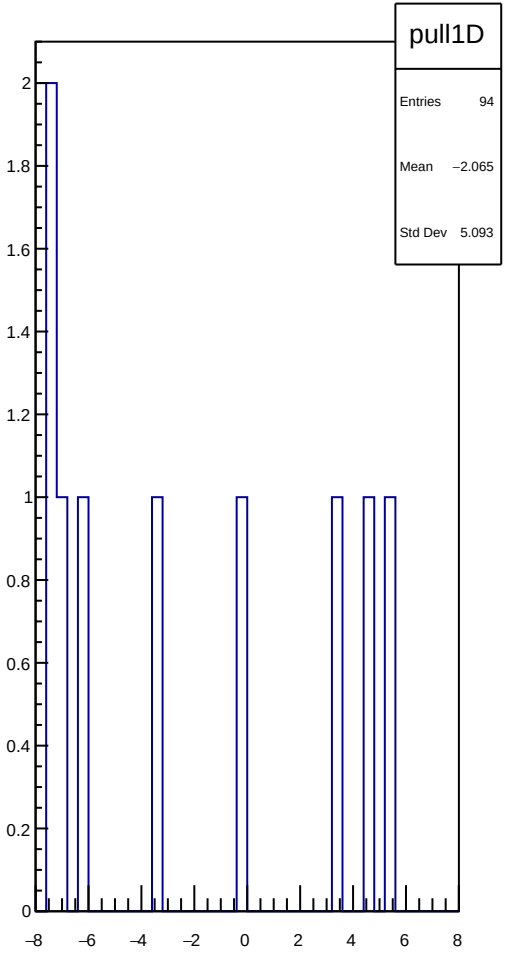

yield_sam4_rms vs run
χ² / ndf 2.351e+05 / 93
p0 0.0661 ± 5.346e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

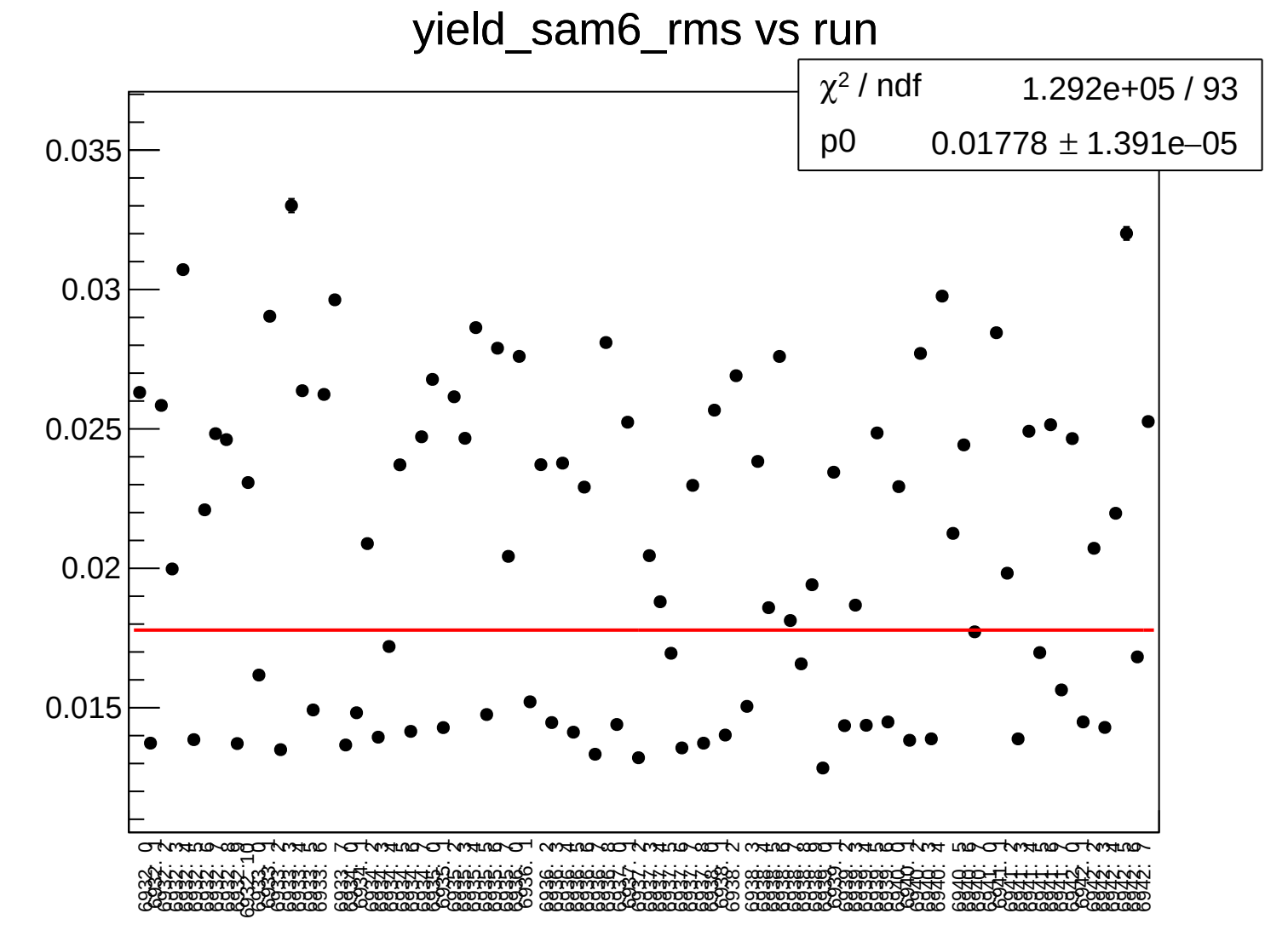

yield_sam5_mean vs run
χ² / ndf 9.792e+05 / 93
p0 18.07 ± 2.992e−05
18.14
18.12
18.1
18.08
18.06
18.04
18.02
18
pull
Entries 94
Mean −2567
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

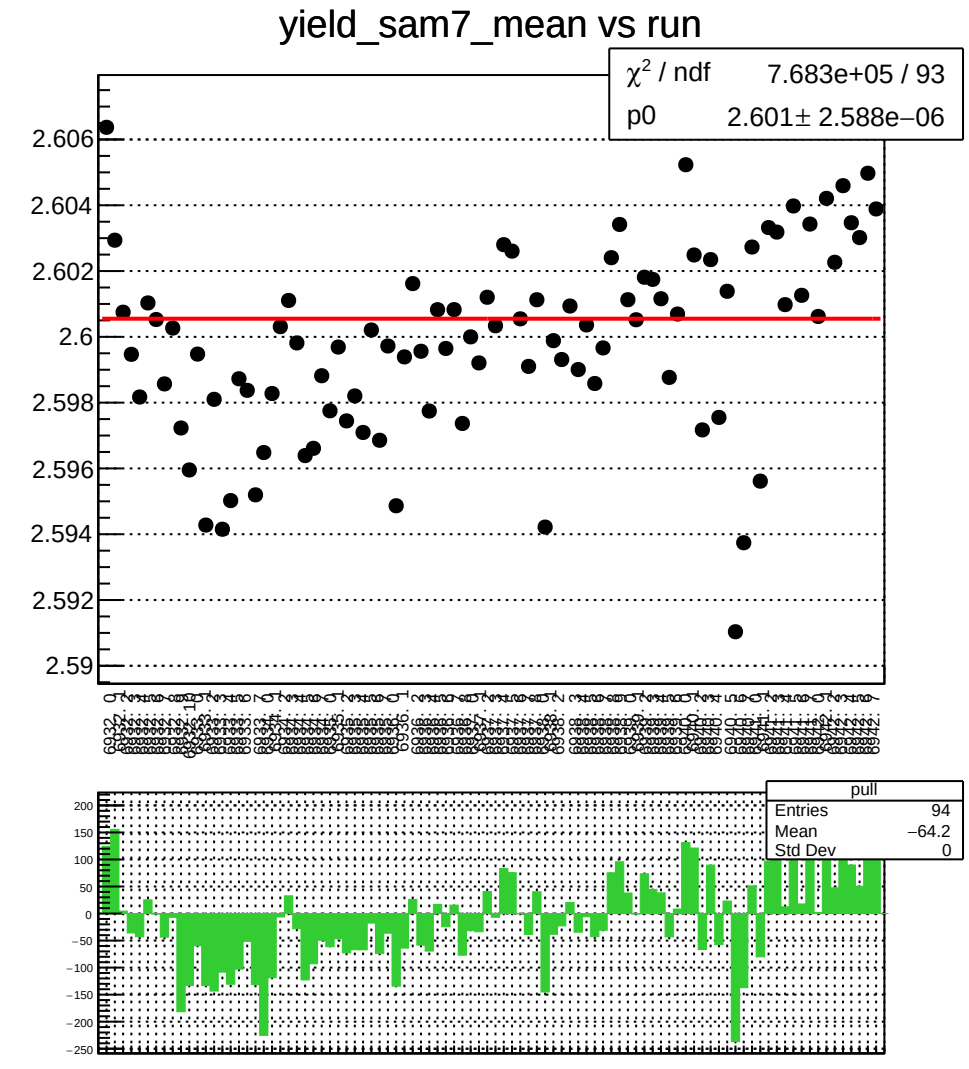

pull1D
Entries 94
Mean −5.263
Std Dev 0.4221
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

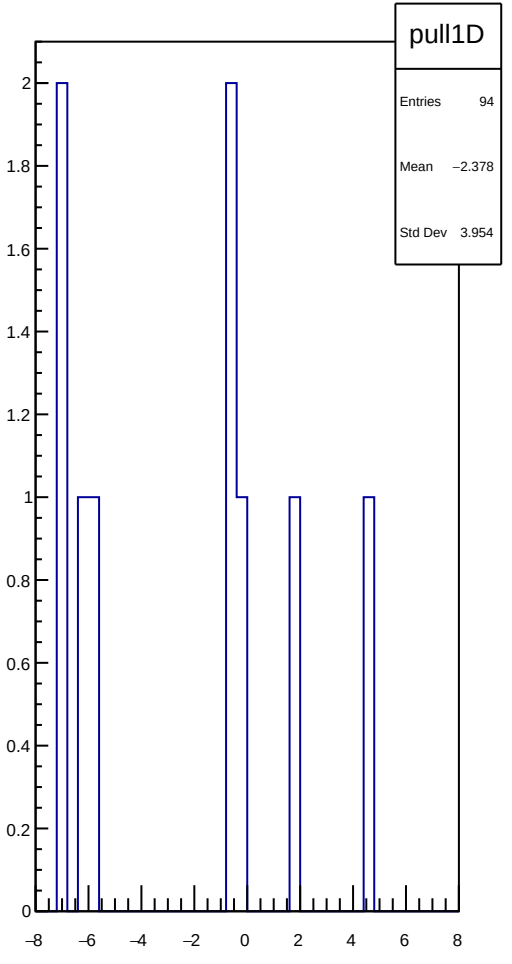

yield_sam5_rms vs run
χ² / ndf 1.456e+04 / 93
p0 0.02799 ± 2.116e–05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024

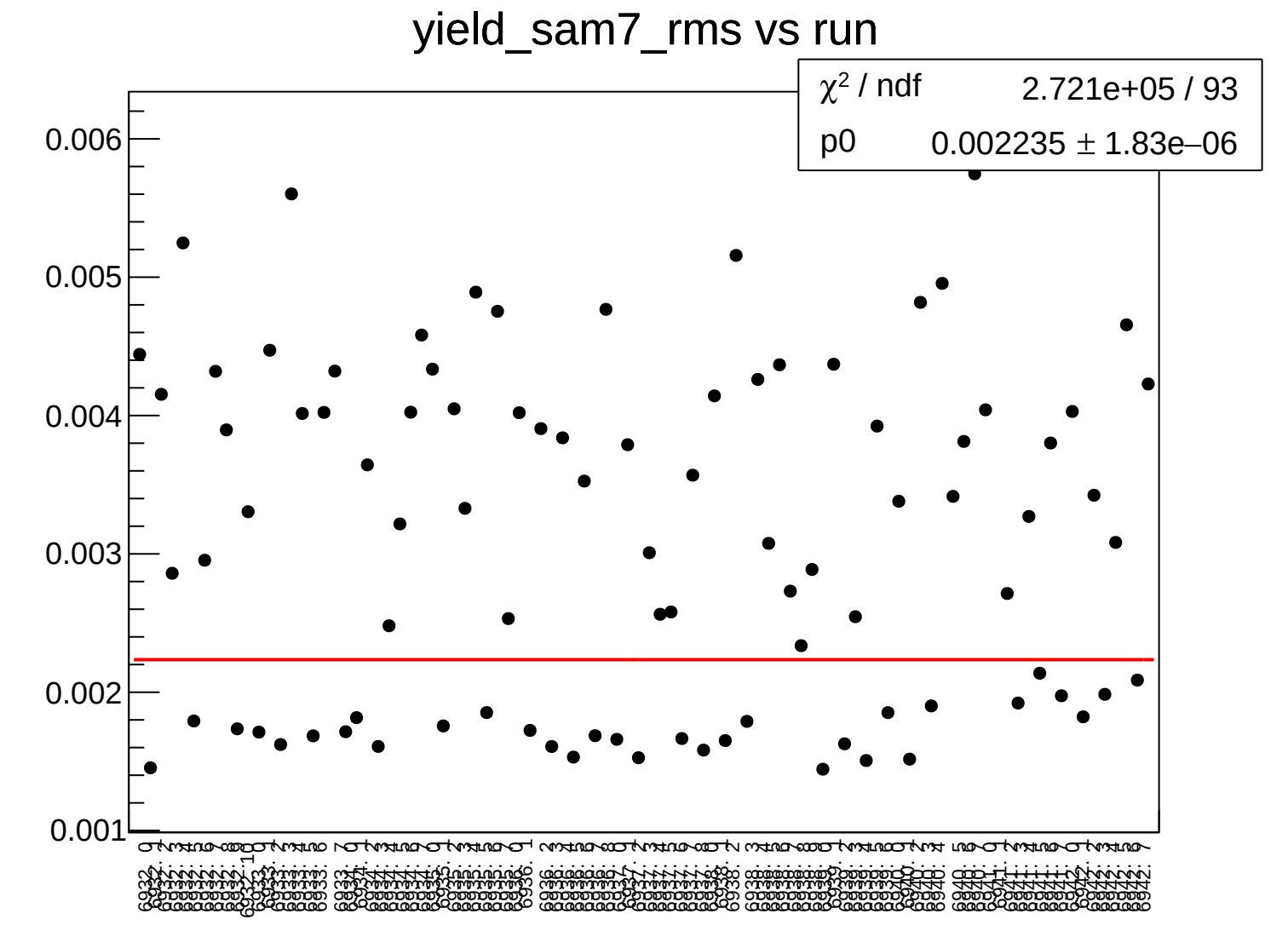

yield_sam6_mean vs run
χ² / ndf 3.09e+05 / 93
p0 9.366 ± 1.967e−05
9.41
9.4
9.39
9.38
9.37
9.36
9.35
9.34
9.33
9.32
pull
Entries 94
Mean 12.87
Std Dev 32.45
150
100
50
0
−50
−100

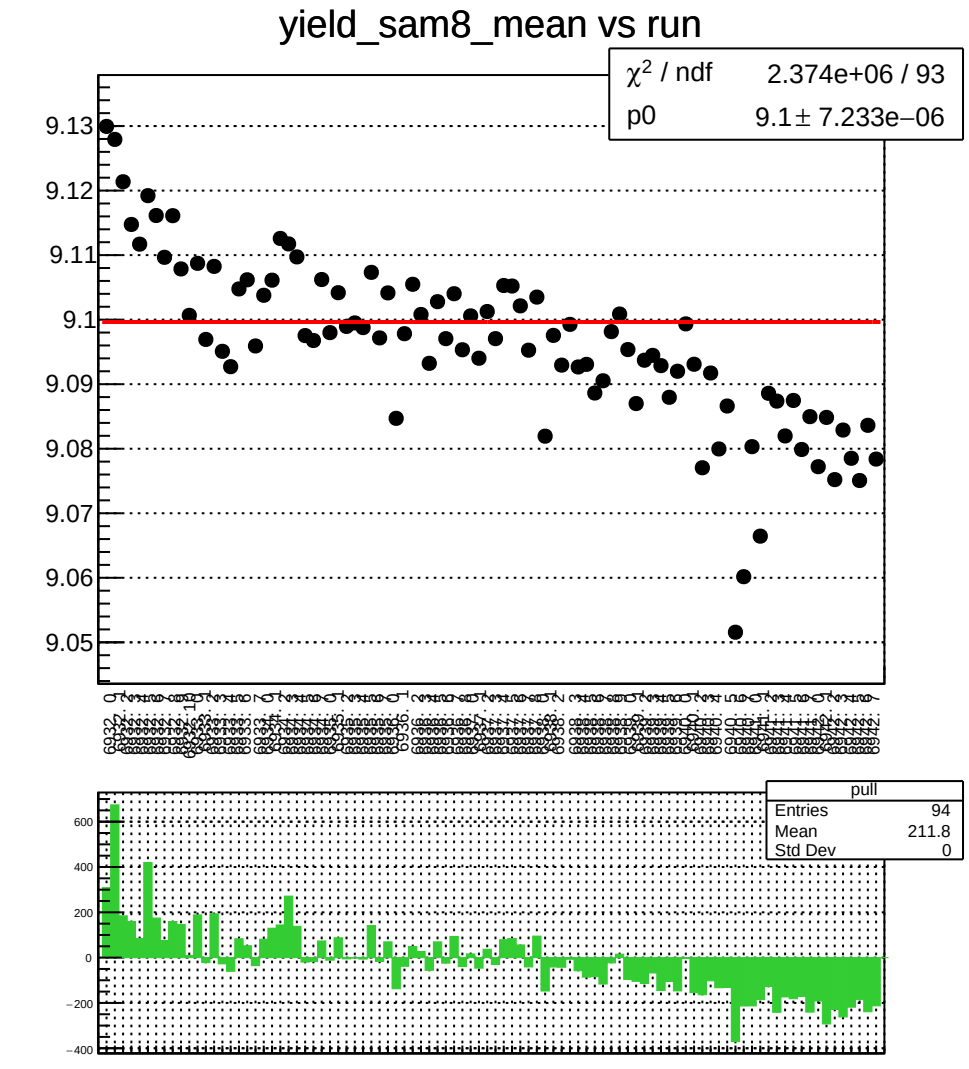

pull1D
Entries 94
Mean −2.065
Std Dev 5.093
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

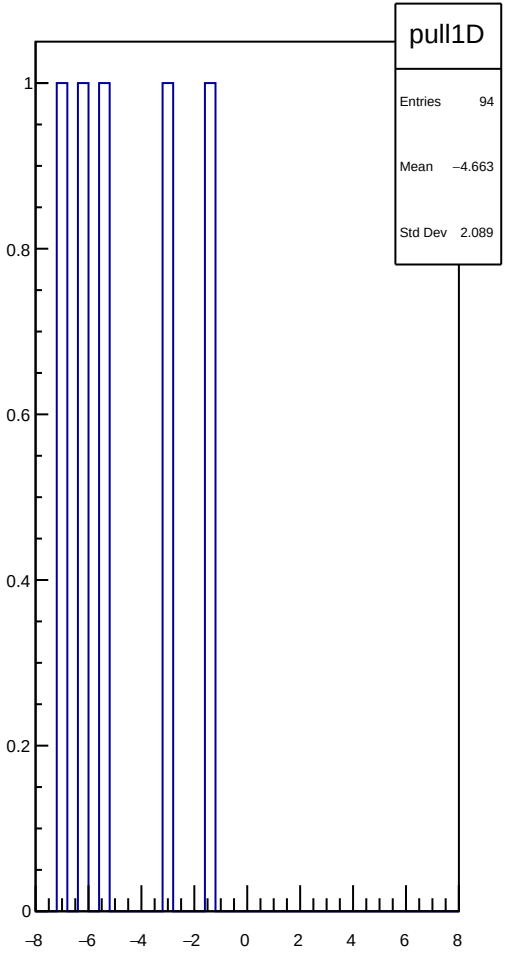

yield_sam6_rms vs run
χ² / ndf 1.292e+05 / 93
p0 0.01778 ± 1.391e–05
0.035
0.03
0.025
0.02
0.015

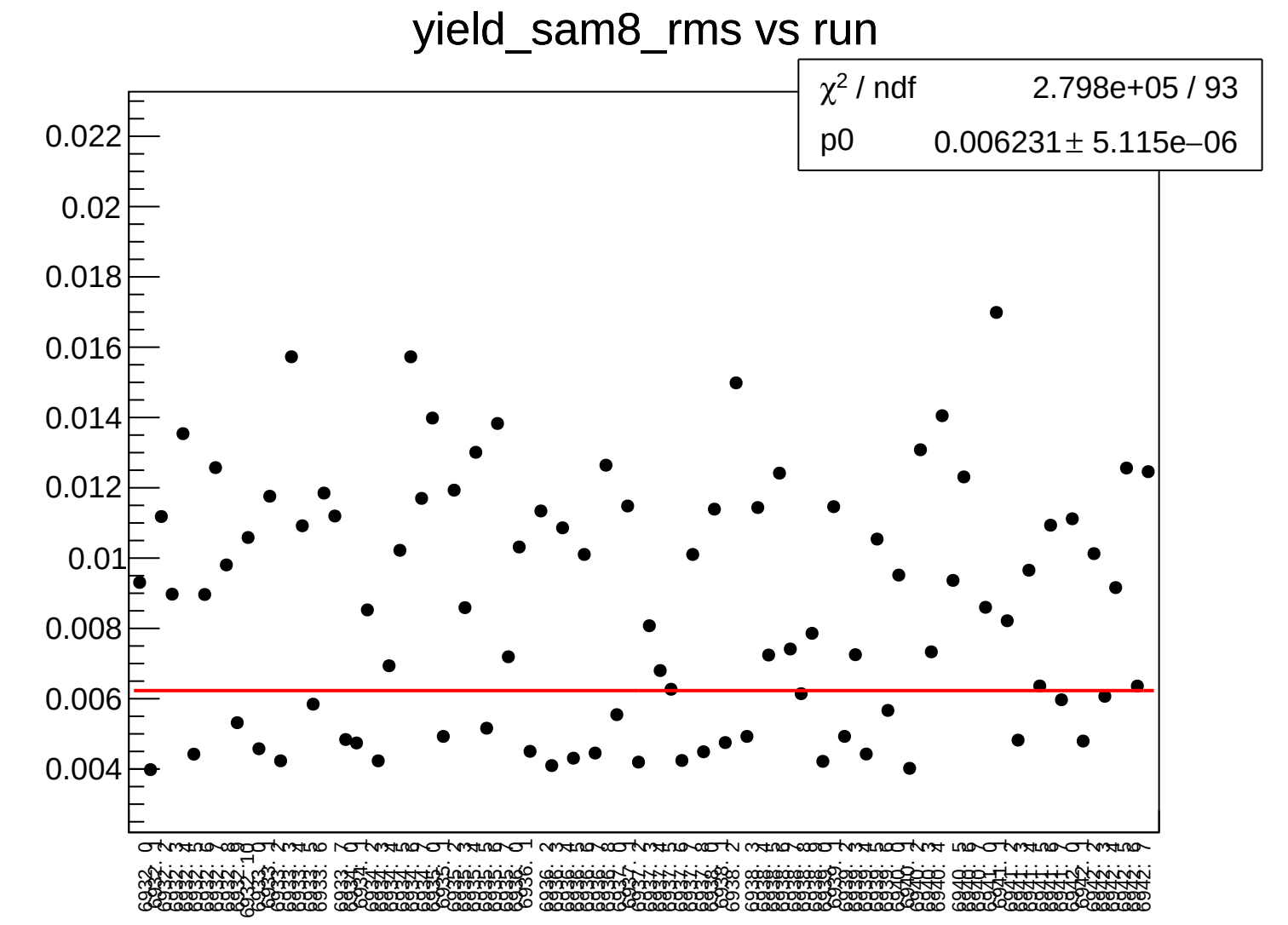

yield_sam7_mean vs run
χ² / ndf 7.683e+05 / 93
p0 2.601± 2.588e−06
2.606
2.604
2.602
2.6
2.598
2.596
2.594
2.592
2.59
pull
Entries 94
Mean −64.2
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

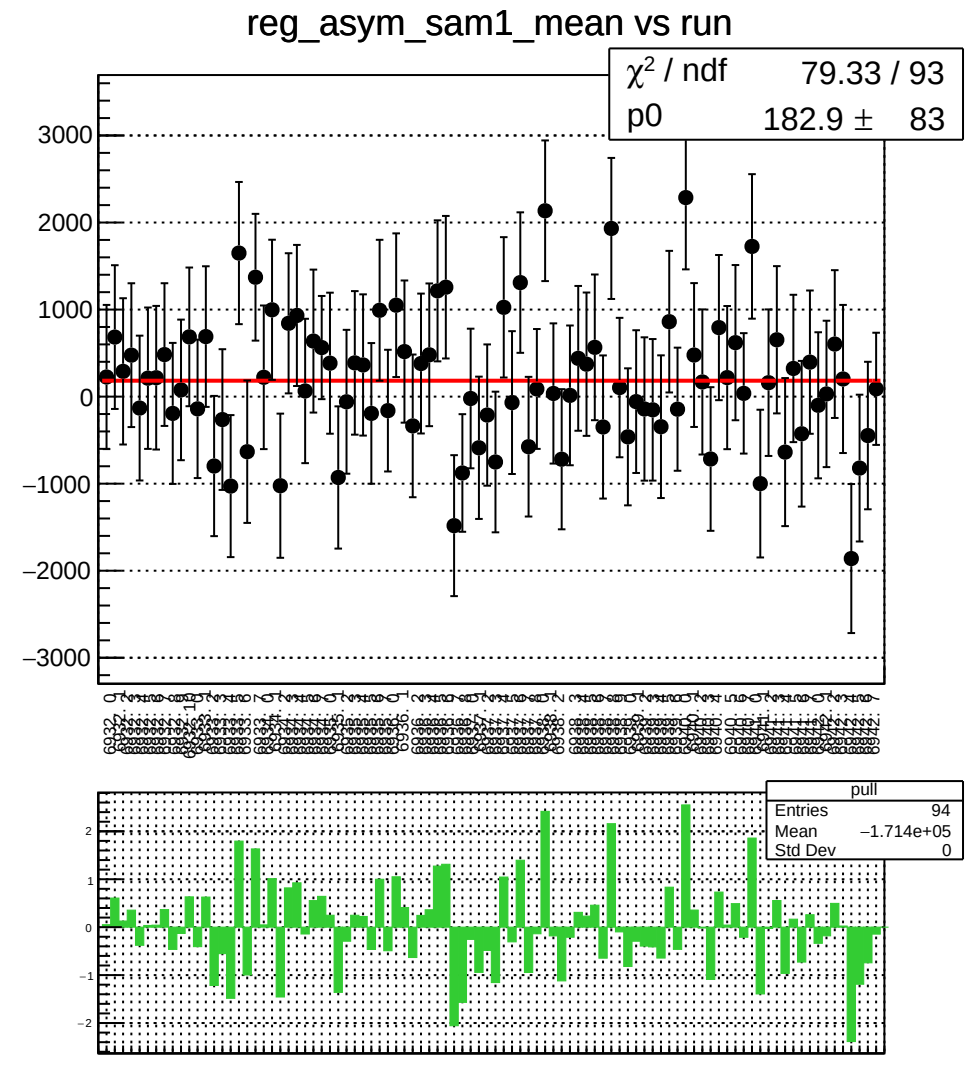

pull1D
Entries 94
Mean −2.378
Std Dev 3.954
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

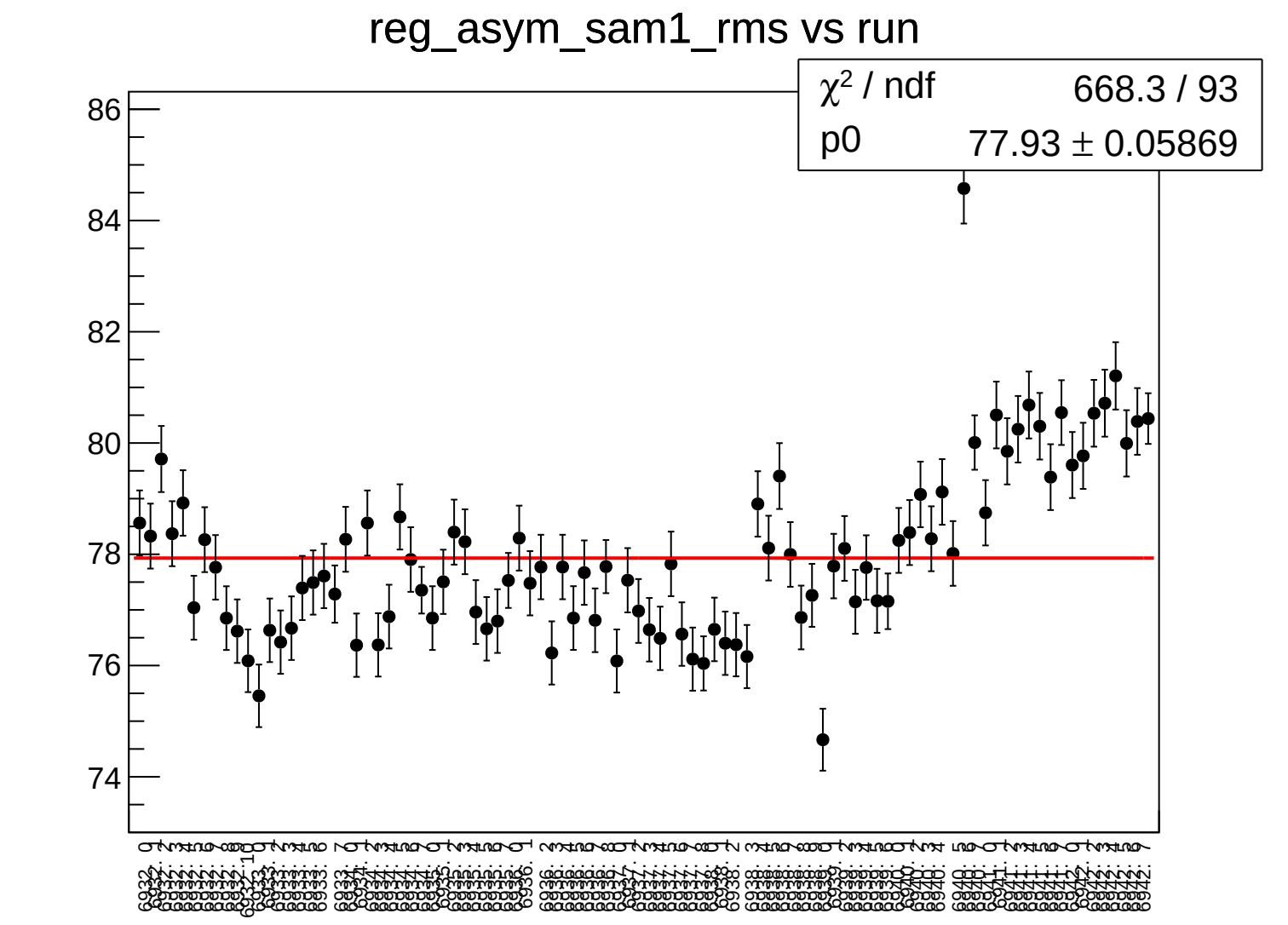

yield_sam7_rms vs run
χ² / ndf 2.721e+05 / 93
p0 0.002235 ± 1.83e−06
0.006
0.005
0.004
0.003
0.002
0.001

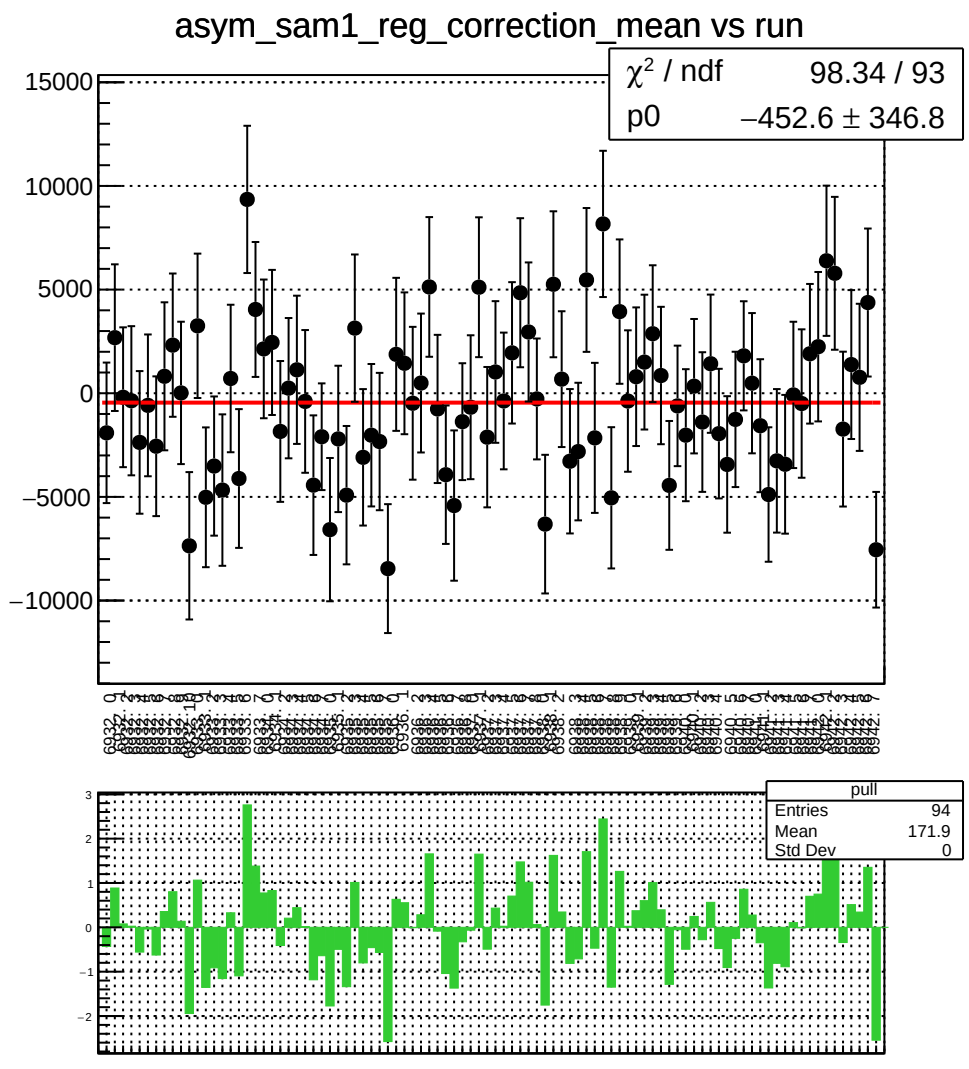

yield_sam8_mean vs run
χ² / ndf 2.374e+06 / 93
p0 9.1 ± 7.233e−06
9.13
9.12
9.11
9.1
9.09
9.08
9.07
9.06
9.05
pull
Entries 94
Mean 211.8
Std Dev 0
600
400
200
0
−200
−400

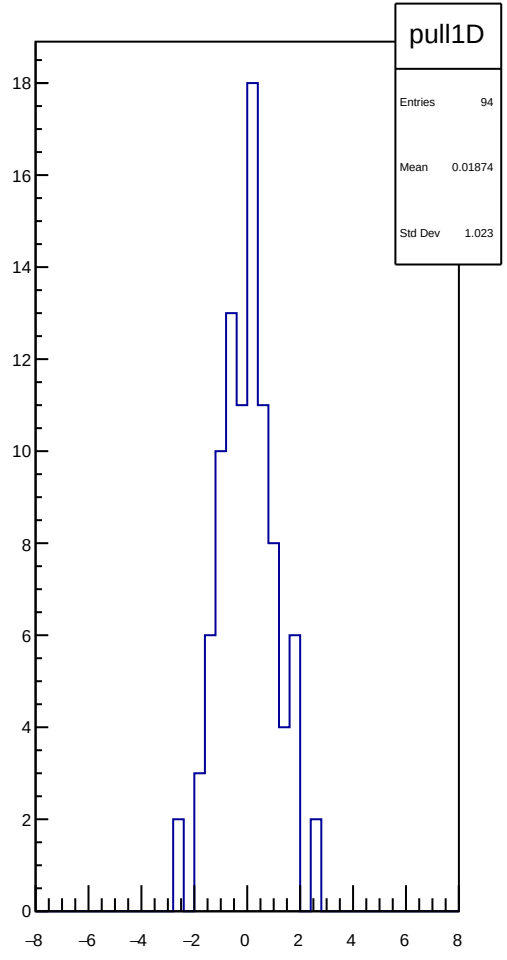

pull1D
Entries 94
Mean −4.663
Std Dev 2.089
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

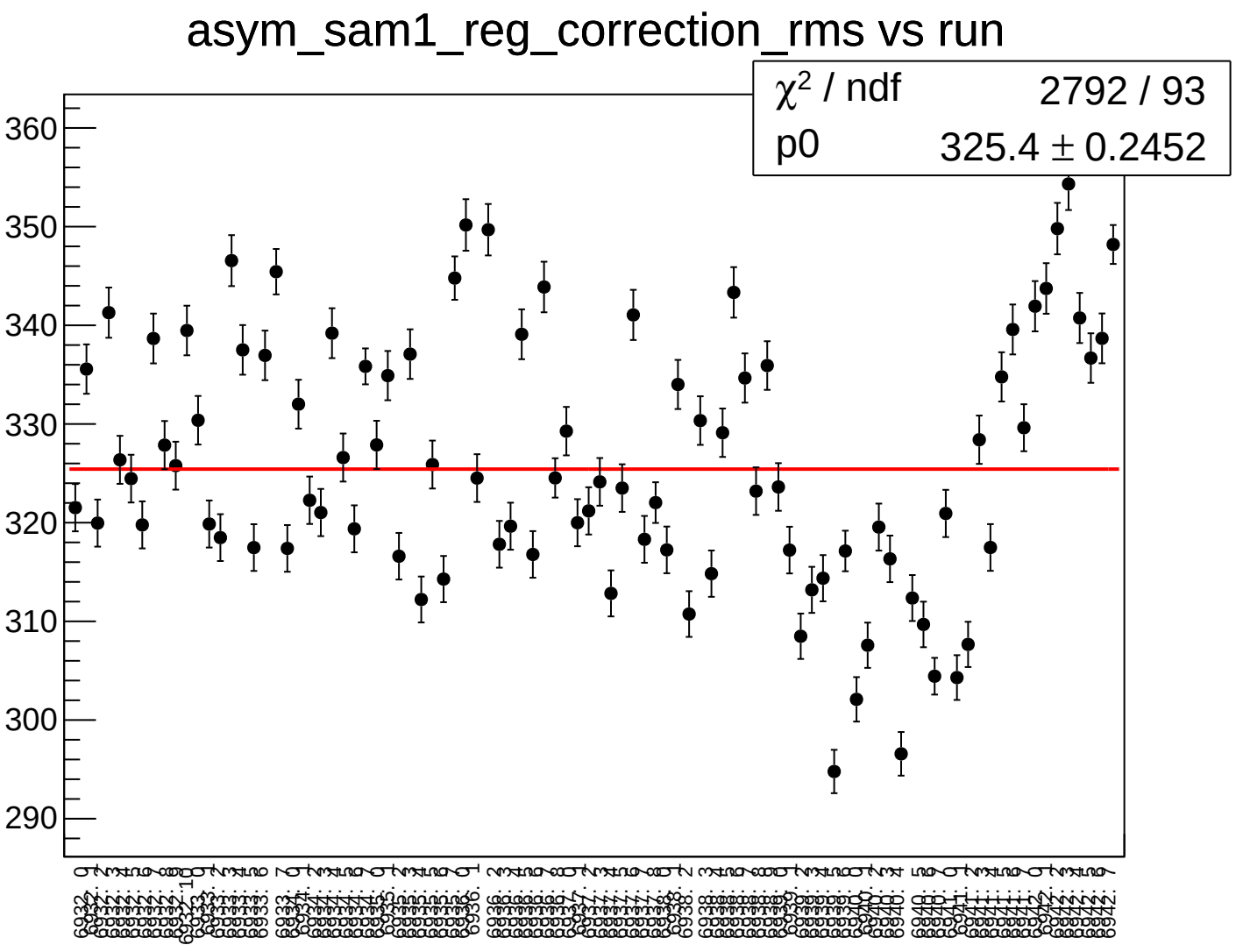

yield_sam8_rms vs run
χ^2 / ndf 2.798e+05 / 93
p0 0.006231 ± 5.115e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

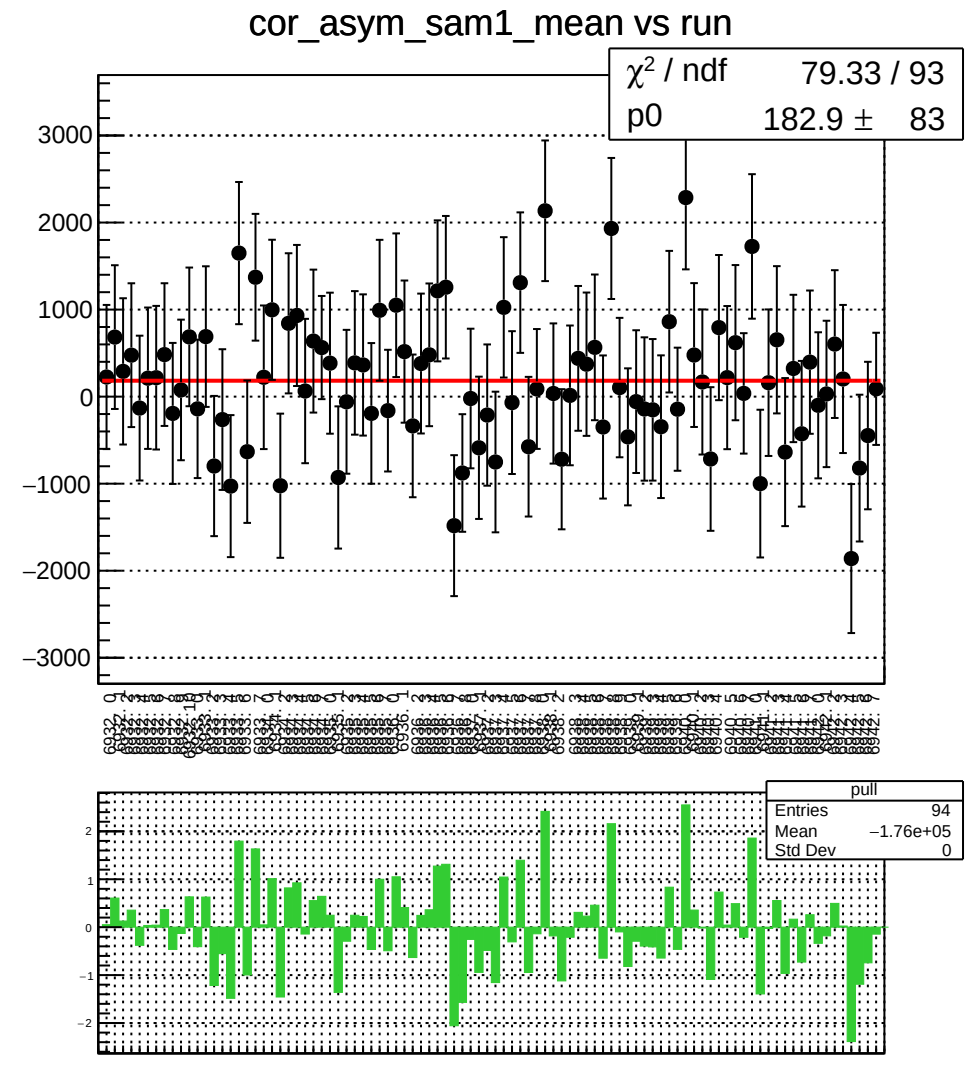

reg_asym_sam1_mean vs run
χ² / ndf 79.33 / 93
p0 182.9 ± 83
pull
Entries 94
Mean −1.714e+05
Std Dev 0
pull1D
Entries 94
Mean 1.386e−05
Std Dev 0.9186

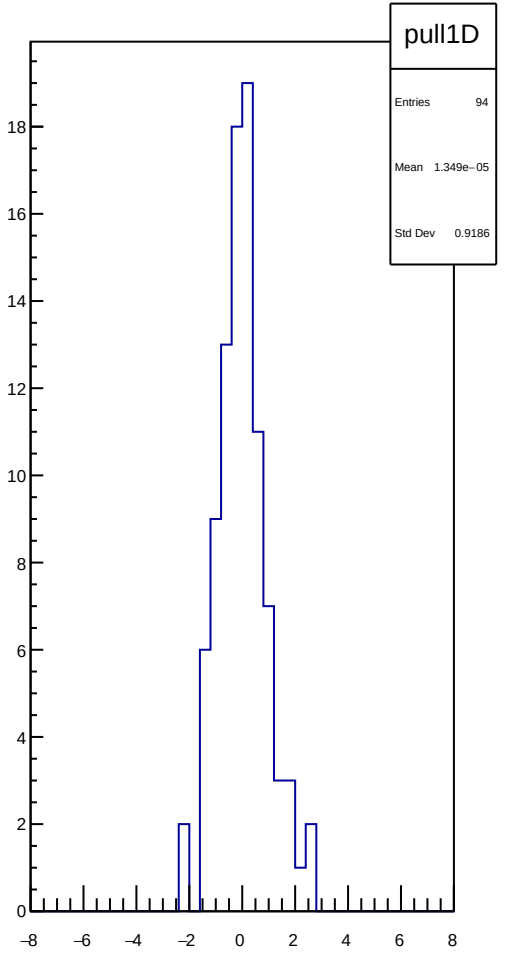

reg_asym_sam1_rms vs run
χ² / ndf 668.3 / 93
p0 77.93 ± 0.05869
86
84
82
80
78
76
74

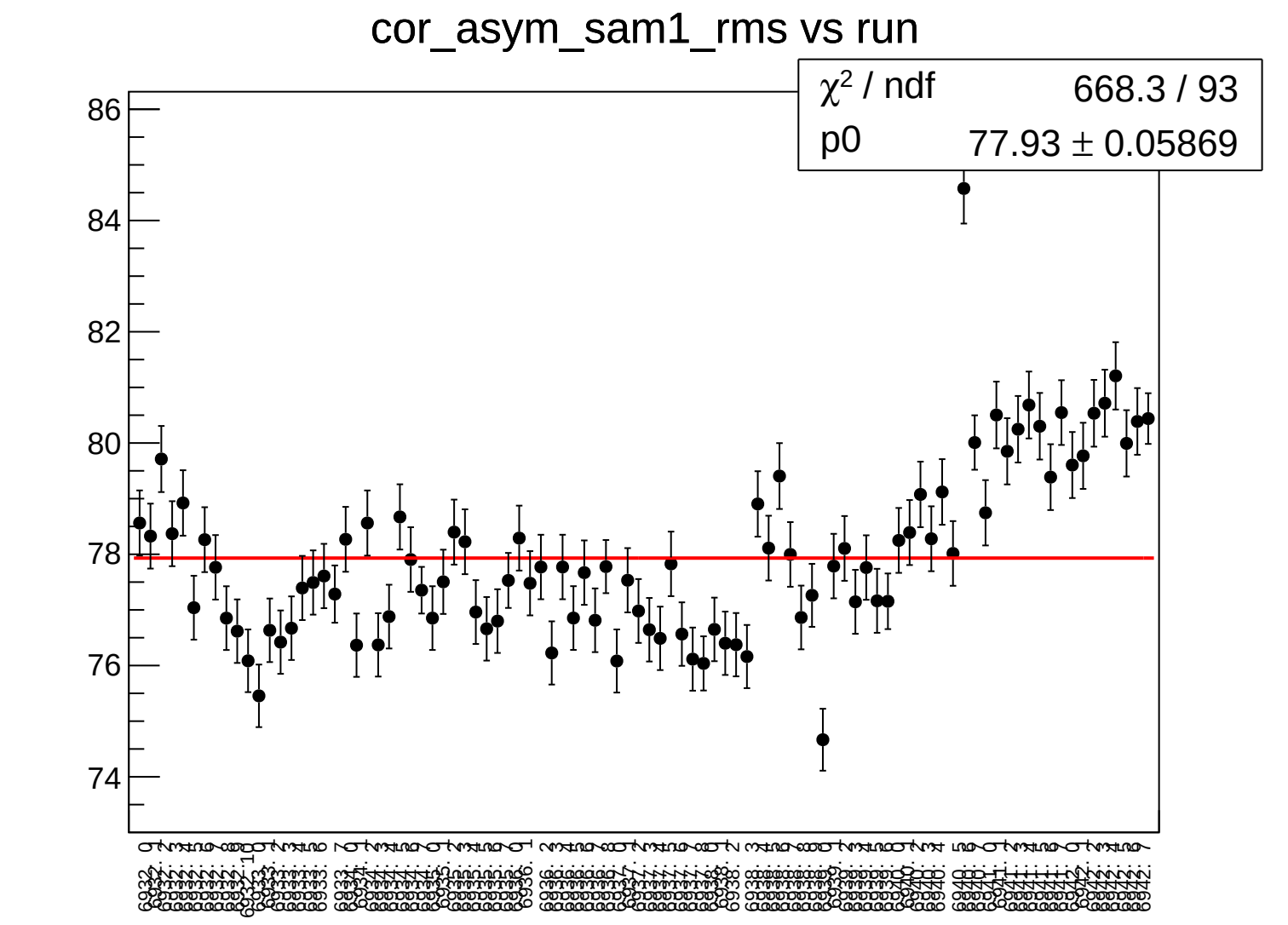

asym_sam1_reg_correction_mean vs run
χ² / ndf 98.34 / 93
p0 −452.6 ± 346.8
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.9
Std Dev 0
3
2
1
0
−1
−2

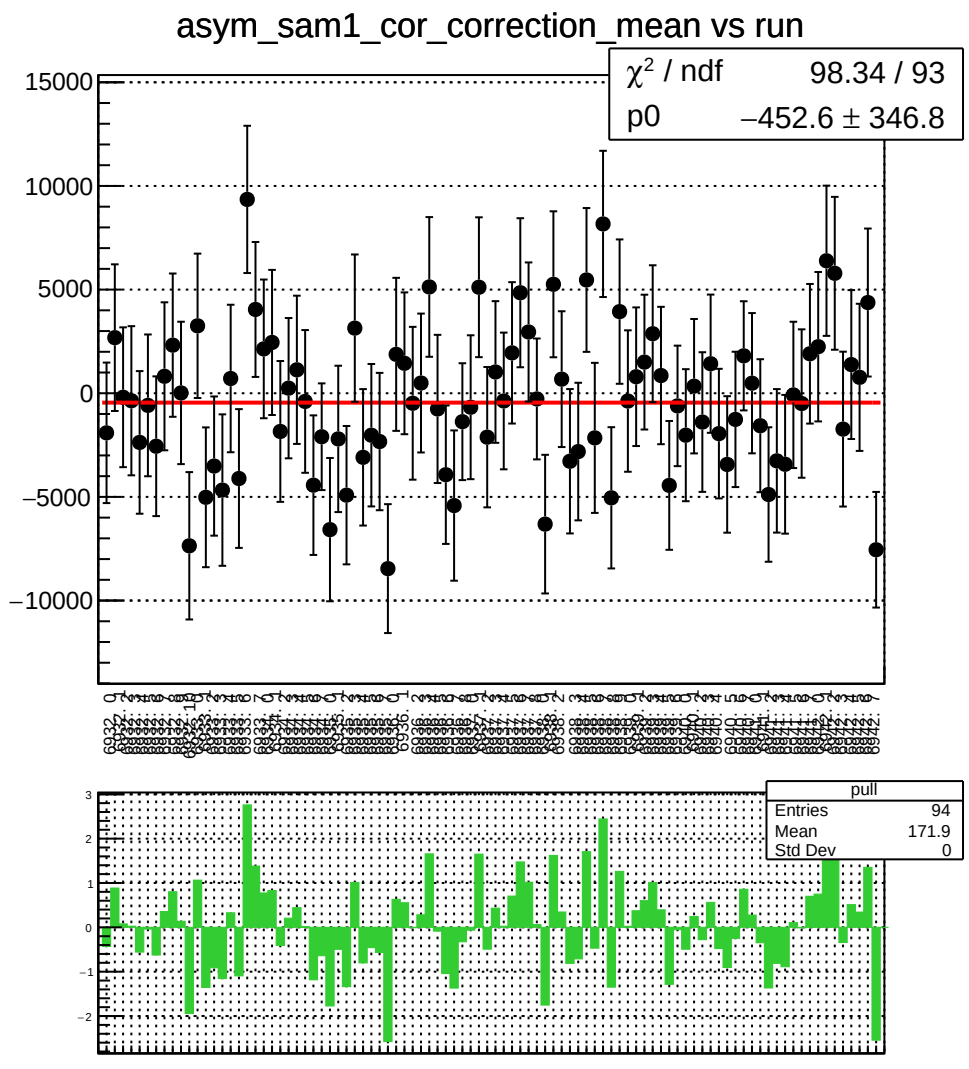

pull1D
Entries 94
Mean 0.01874
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

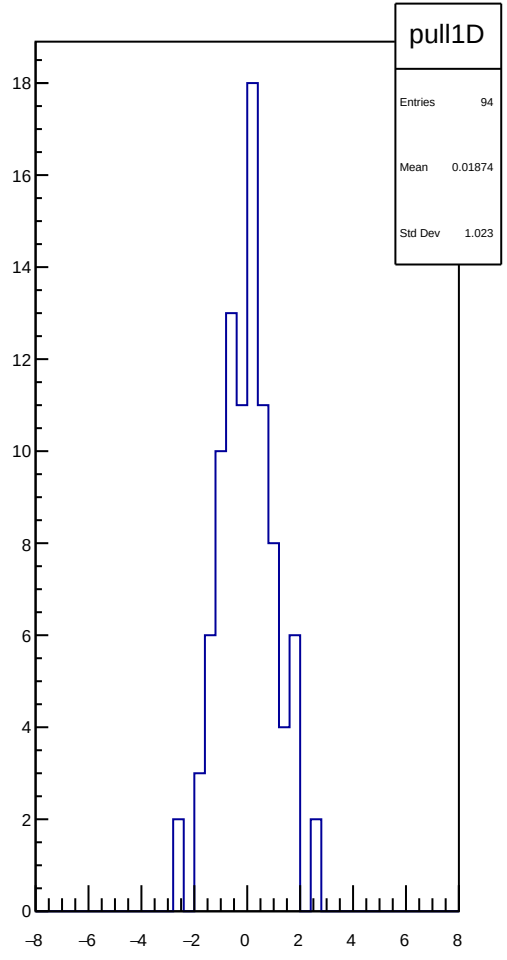

asym_sam1_reg_correction_rms vs run
χ² / ndf 2792 / 93
p0 325.4 ± 0.2452
360
350
340
330
320
310
300
290

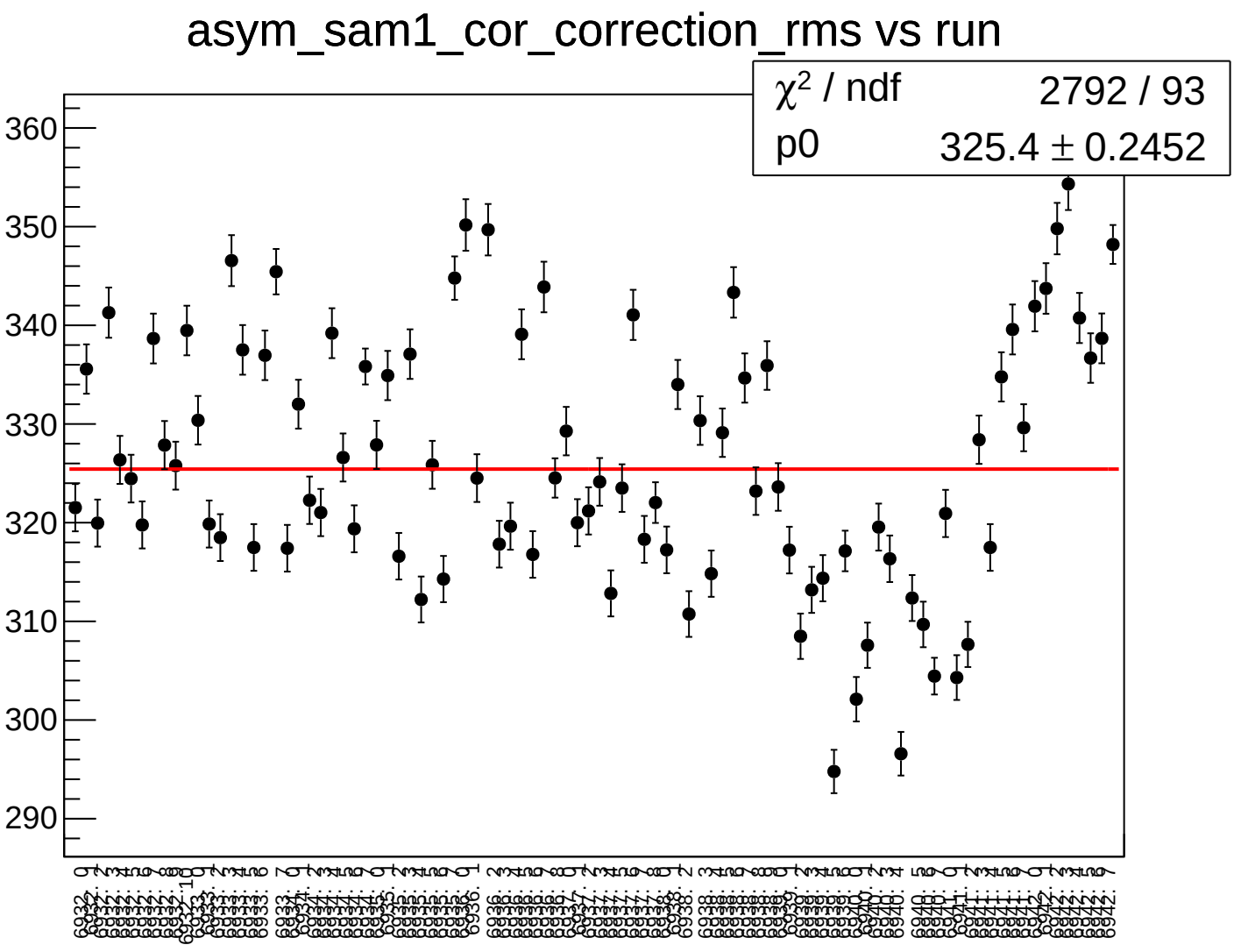

cor_asym_sam1_mean vs run
χ² / ndf 79.33 / 93
p0 182.9 ± 83
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1.76e+05
Std Dev 0
2
1
0
−1
−2

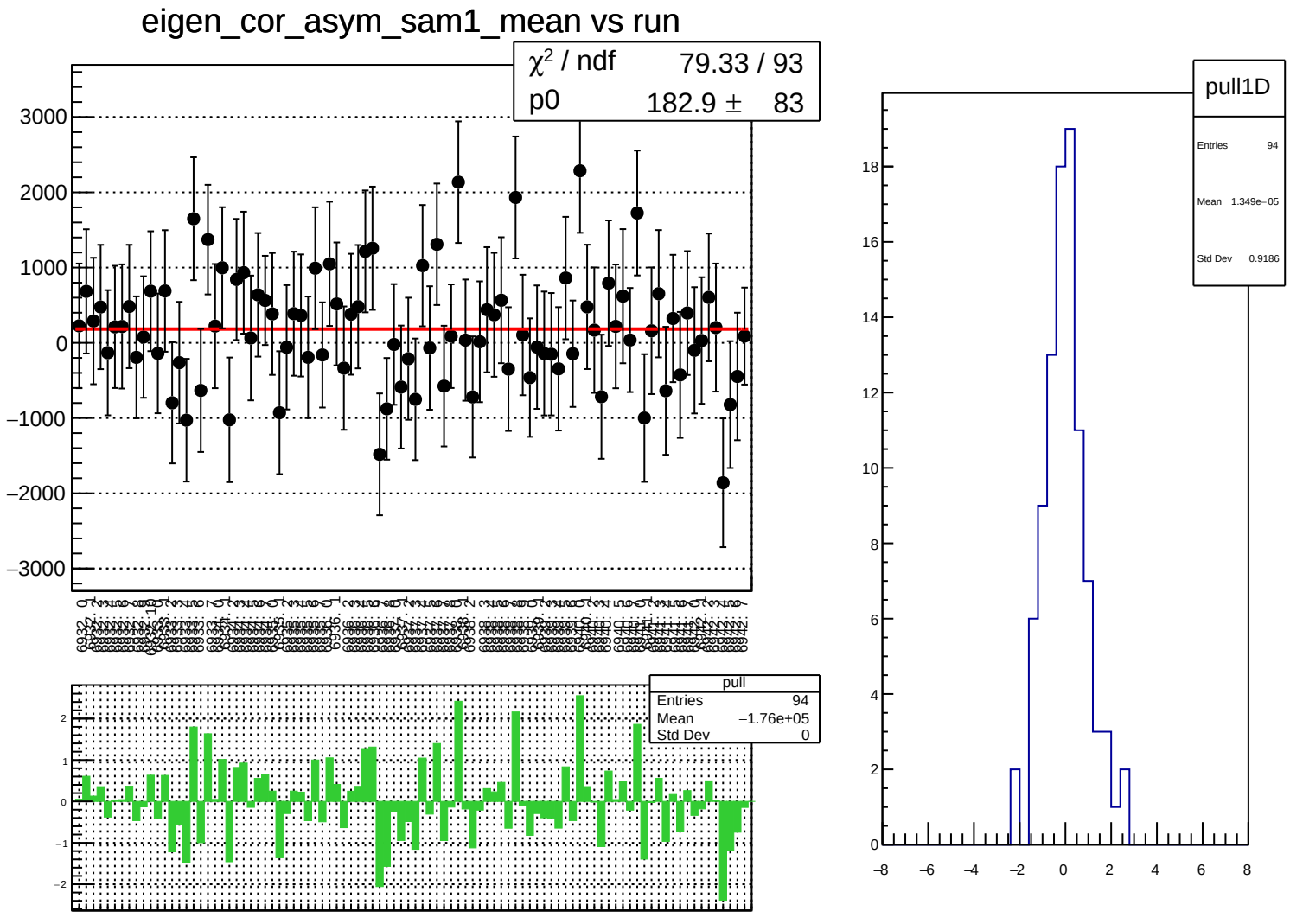

pull1D
Entries 94
Mean 1.349e−05
Std Dev 0.9186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

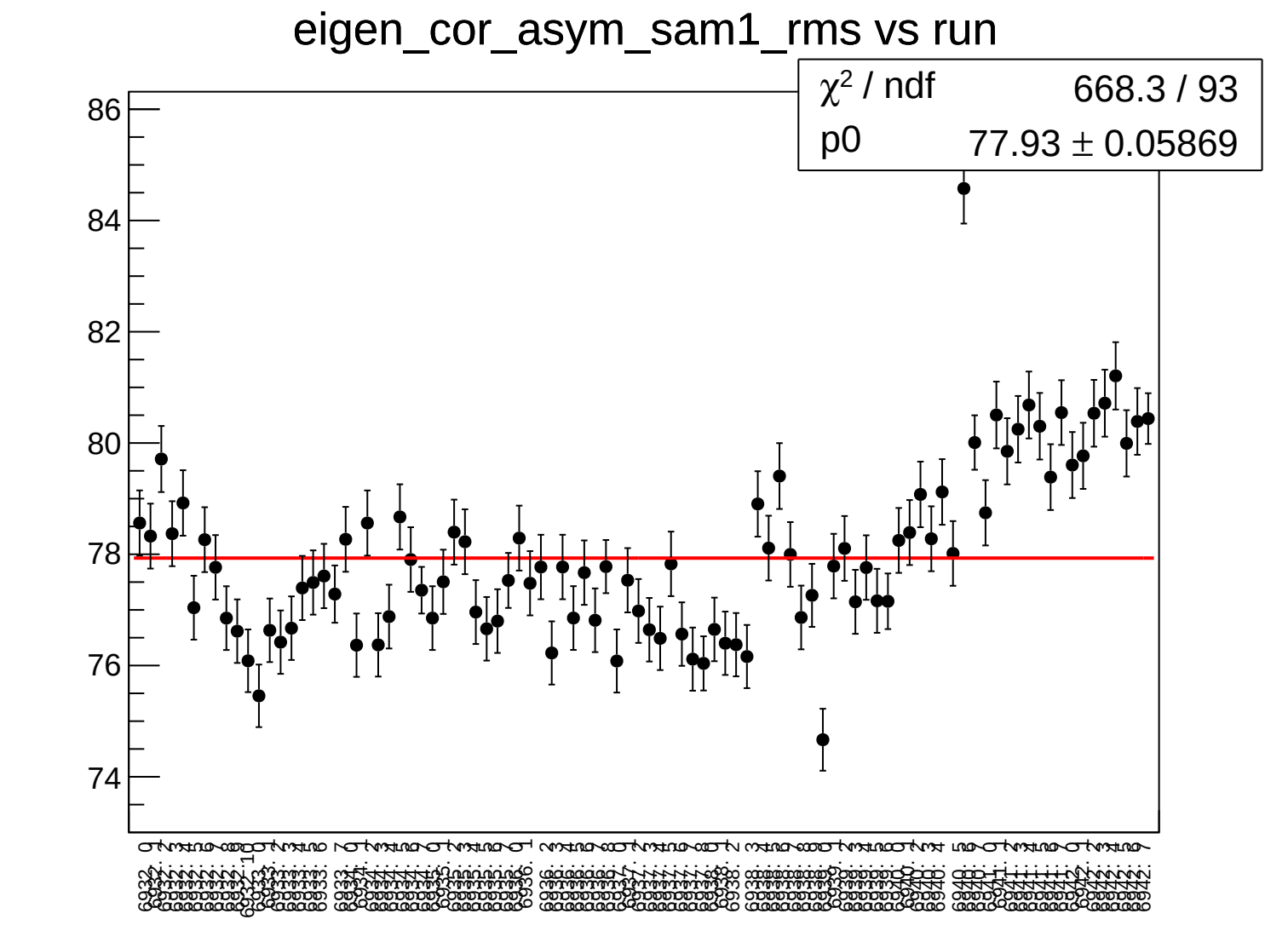

cor_asym_sam1_rms vs run
χ² / ndf 668.3 / 93
p0 77.93 ± 0.05869
86
84
82
80
78
76
74

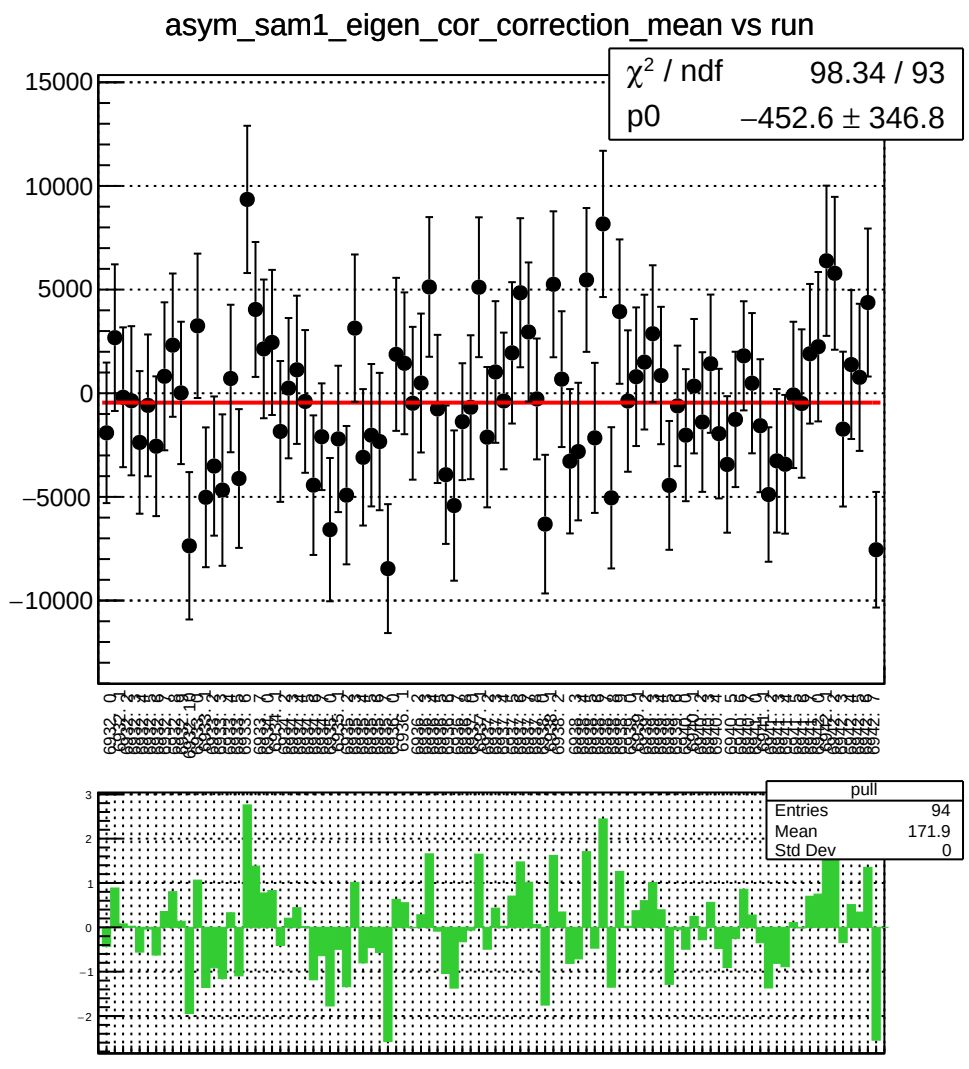

asym_sam1_cor_correction_mean vs run
χ² / ndf 98.34 / 93
p0 −452.6 ± 346.8
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.9
Std Dev 0
3
2
1
0
−1
−2

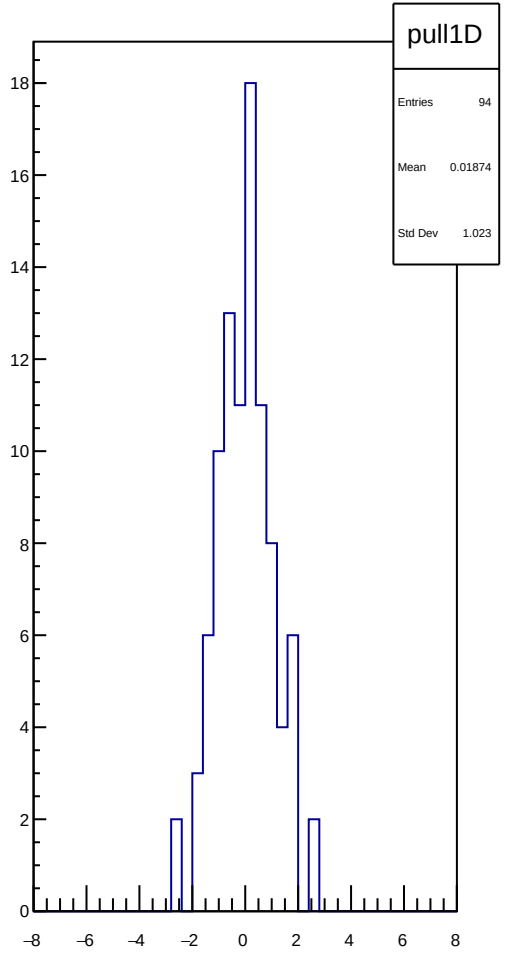

pull1D
Entries 94
Mean 0.01874
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

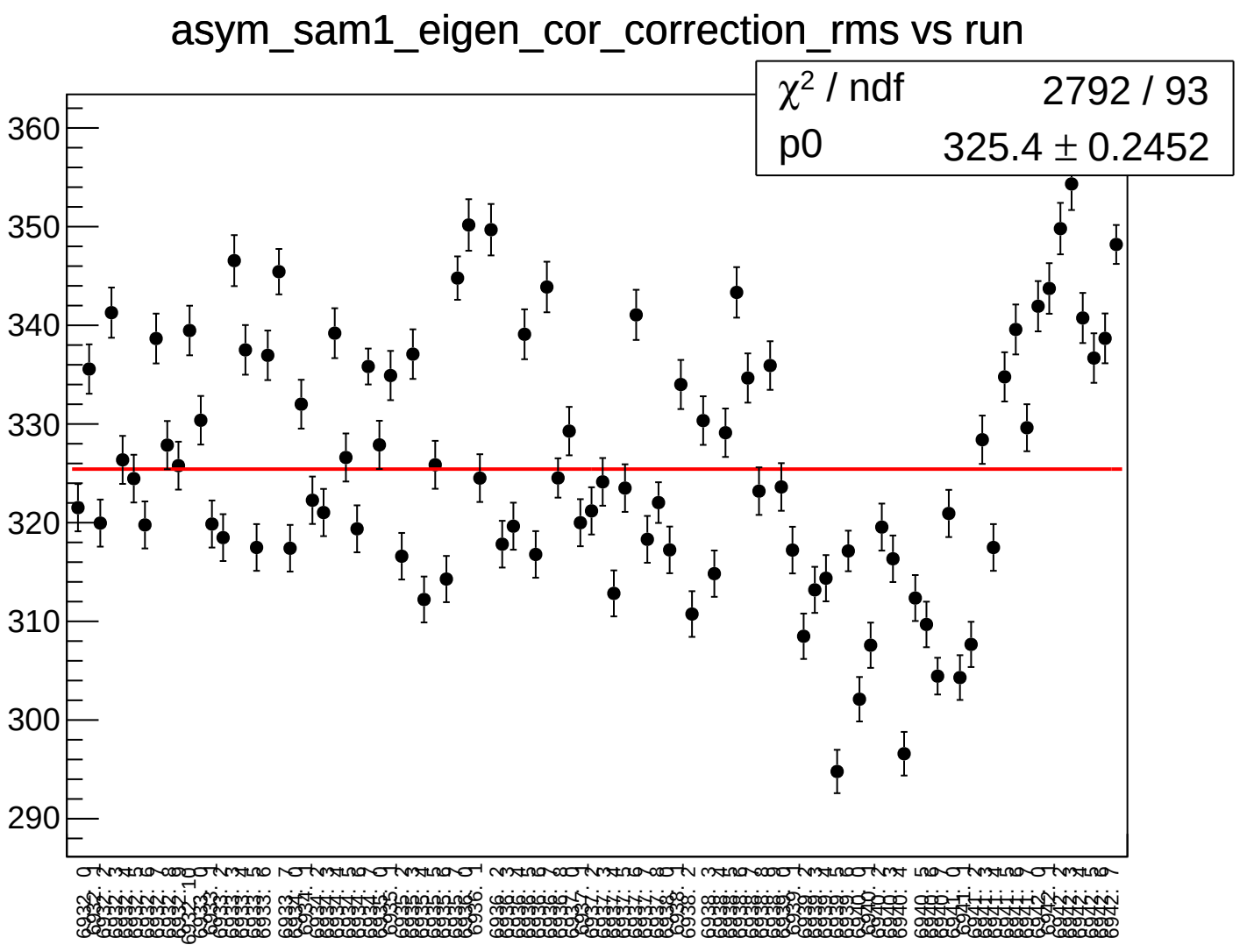

asym_sam1_cor_correction_rms vs run
χ² / ndf 2792 / 93
p0 325.4 ± 0.2452
360
350
340
330
320
310
300
290

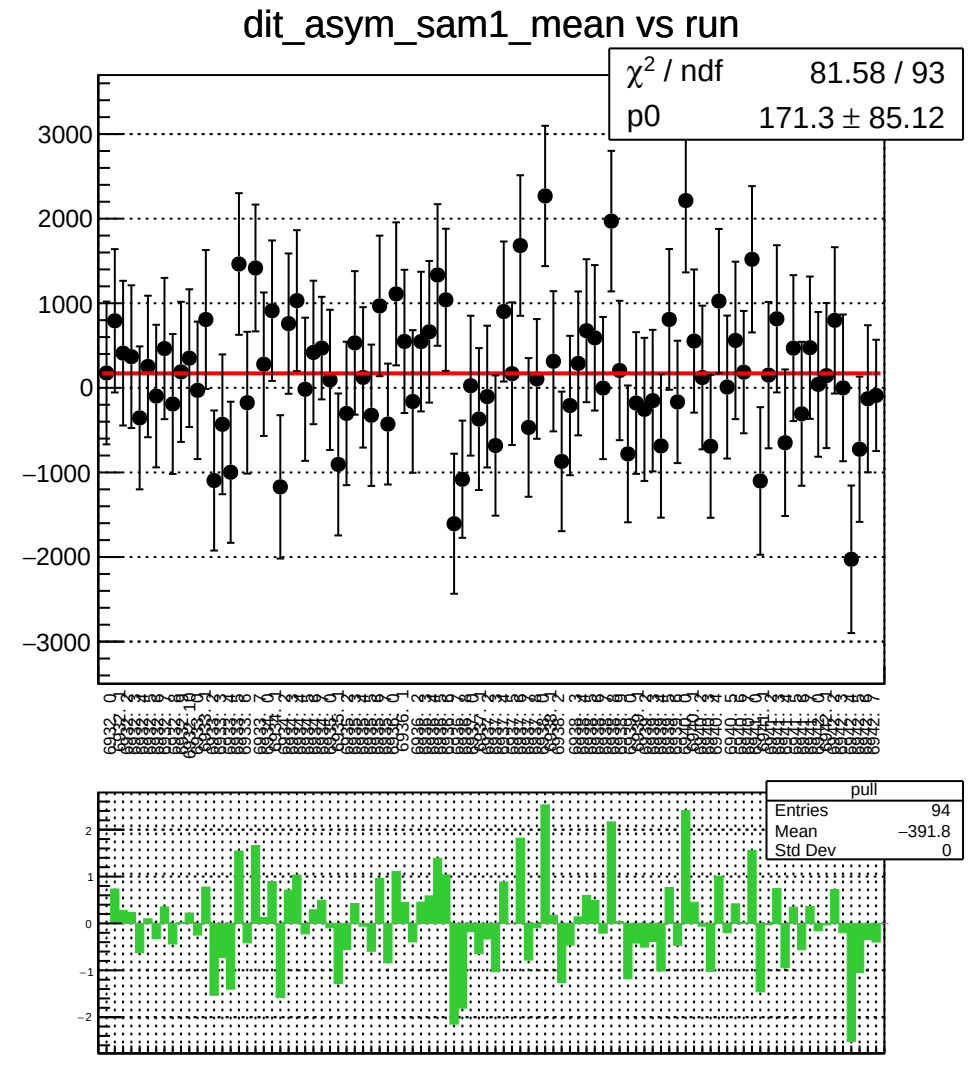

eigen_cor_asym_sam1_mean vs run
χ² / ndf 79.33 / 93
p0 182.9 ± 83
pull
Entries 94
Mean −1.76e+05
Std Dev 0
pull1D
Entries 94
Mean 1.349e−05
Std Dev 0.9186

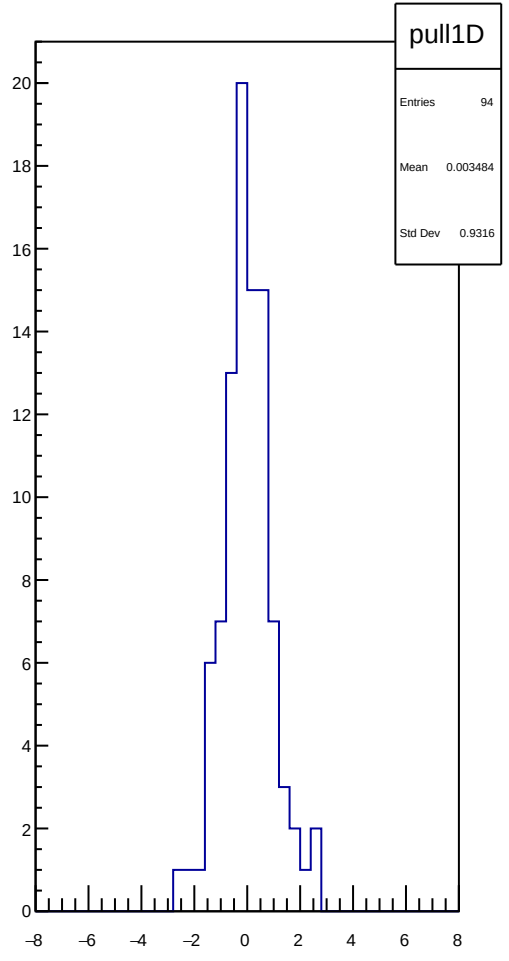

eigen_cor_asym_sam1_rms vs run
χ² / ndf 668.3 / 93
p0 77.93 ± 0.05869
86
84
82
80
78
76
74

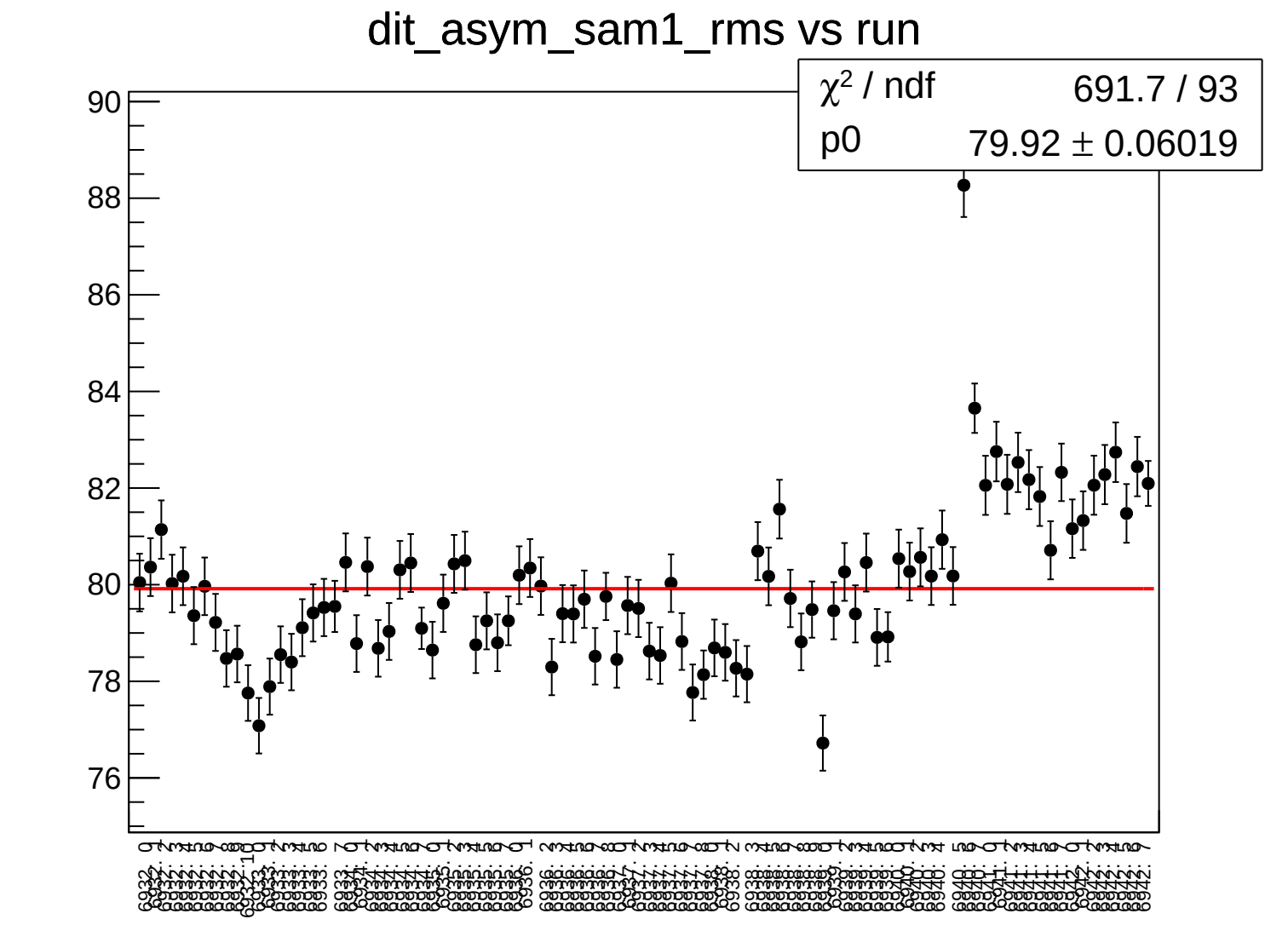

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 98.34 / 93
p0 −452.6 ± 346.8
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.9
Std Dev 0
3
2
1
0
−1
−2

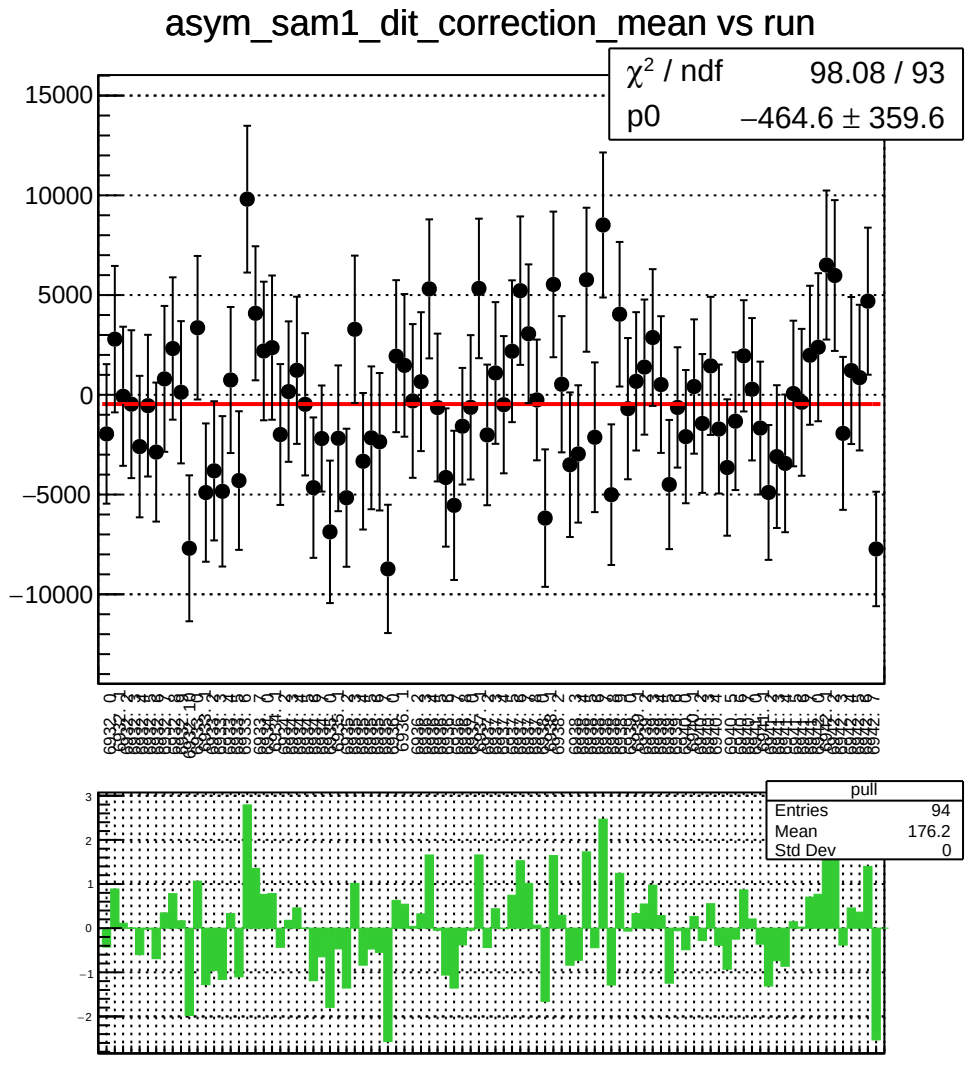

pull1D
Entries 94
Mean 0.01874
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

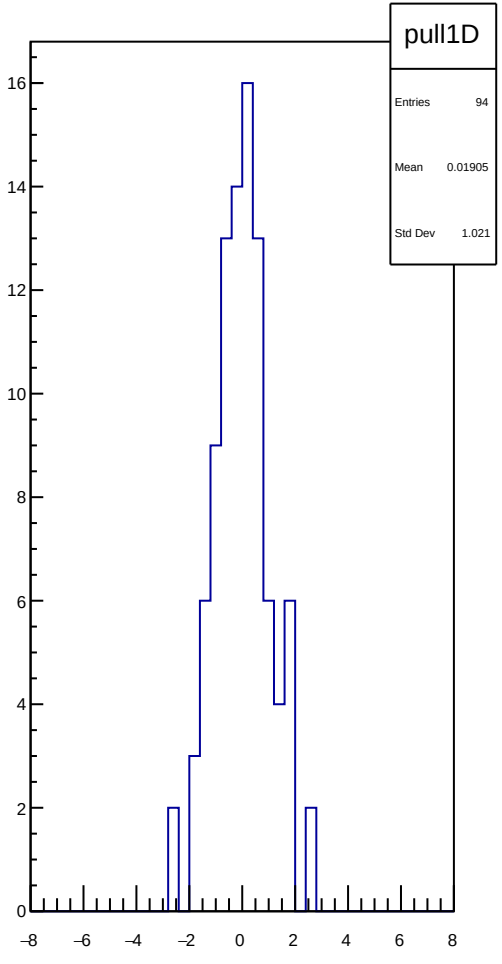

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 2792 / 93
p0 325.4 ± 0.2452
360
350
340
330
320
310
300
290

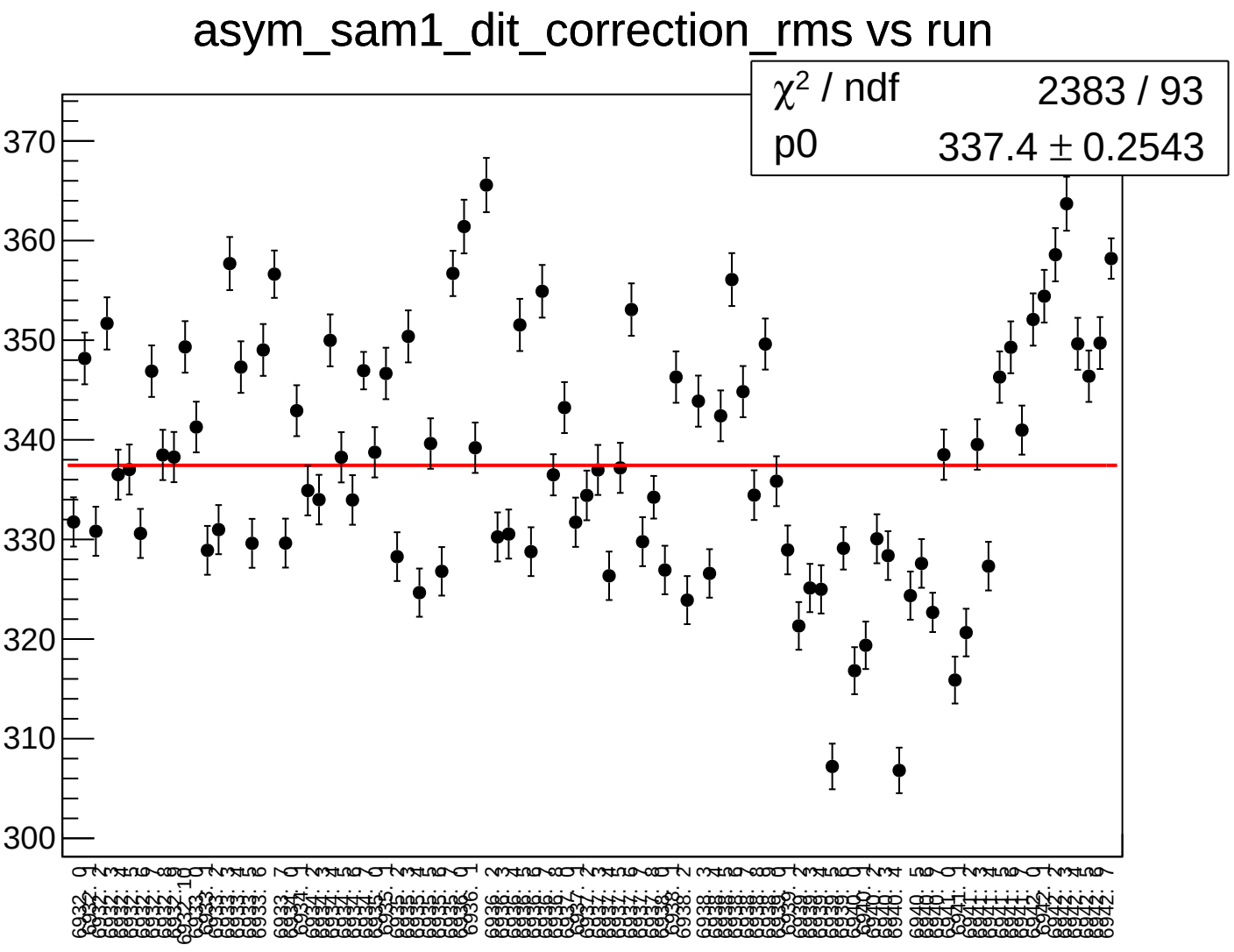

dit_asym_sam1_mean vs run
χ² / ndf 81.58 / 93
p0 171.3 ± 85.12
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −391.8
Std Dev 0
2
1
0
−1
−2

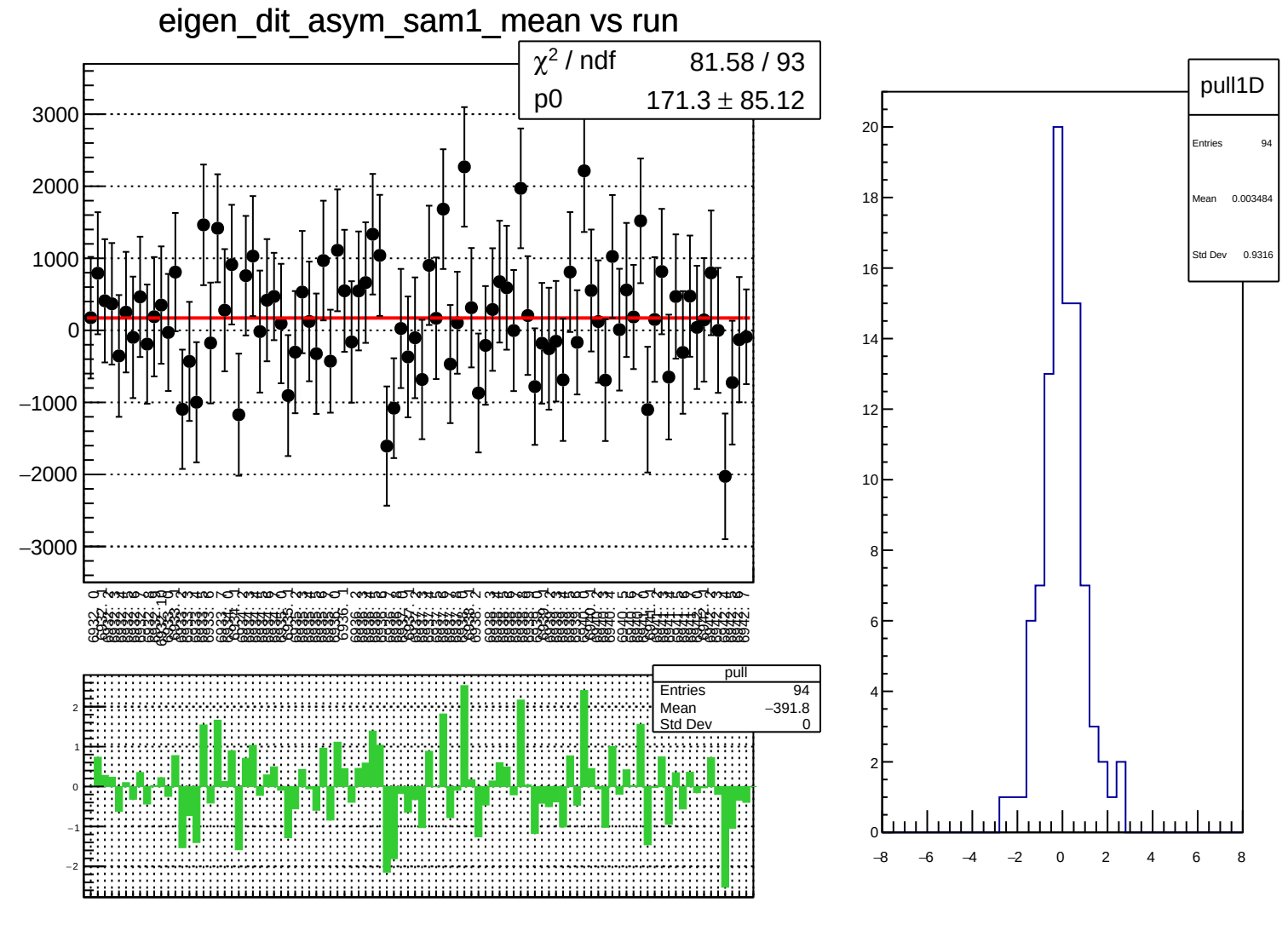

pull1D
Entries 94
Mean 0.003484
Std Dev 0.9316
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

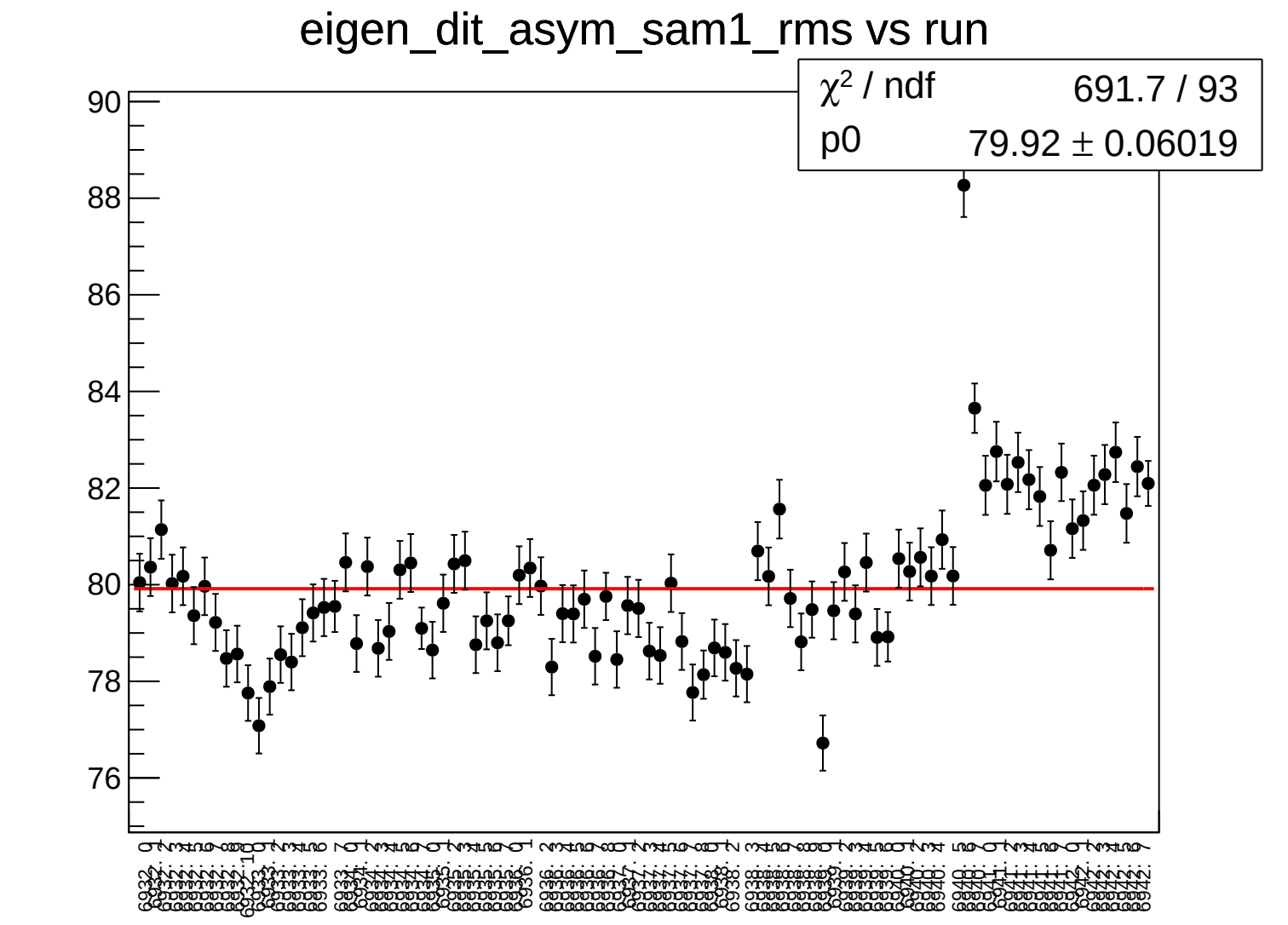

dit_asym_sam1_rms vs run
χ^2 / ndf 691.7 / 93
p0 79.92 ± 0.06019
90
88
86
84
82
80
78
76

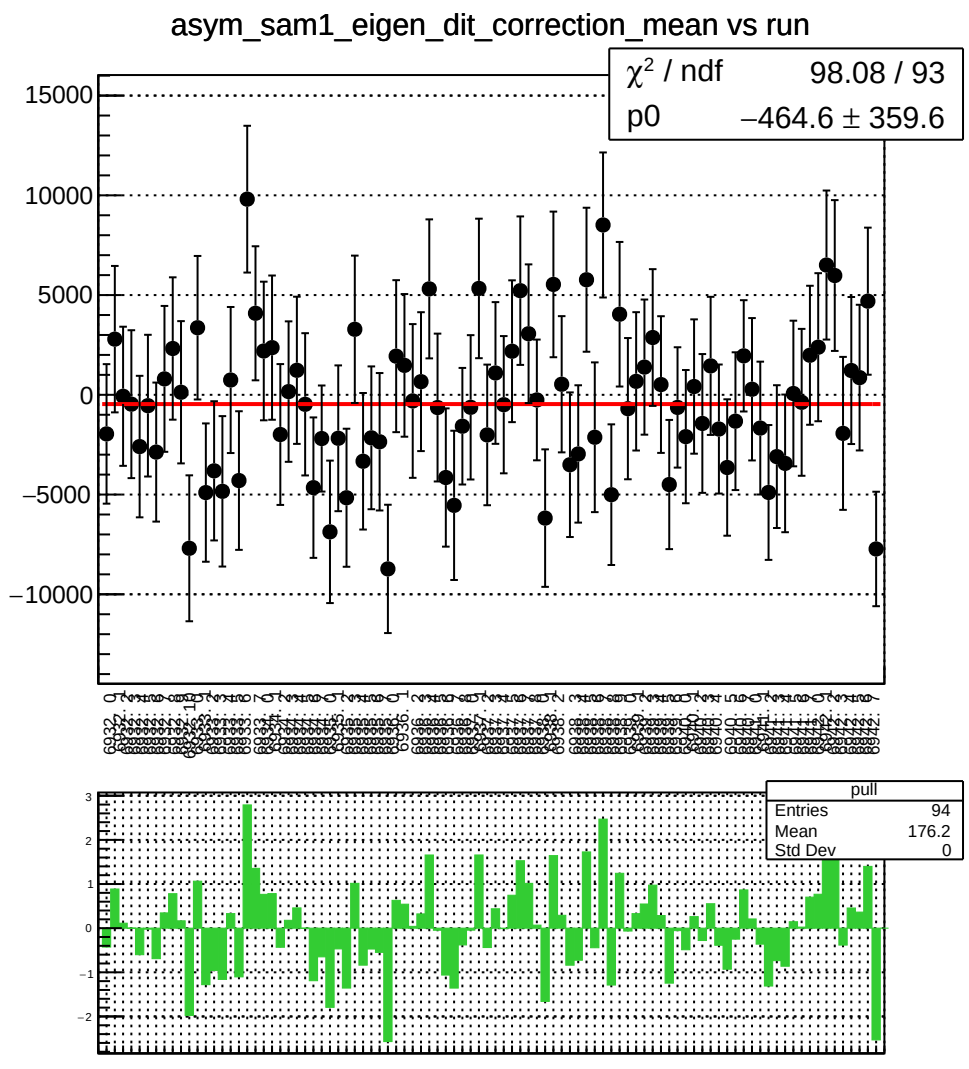

asym_sam1_dit_correction_mean vs run
χ² / ndf 98.08 / 93
p0 −464.6 ± 359.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 176.2
Std Dev 0
3
2
1
0
−1
−2

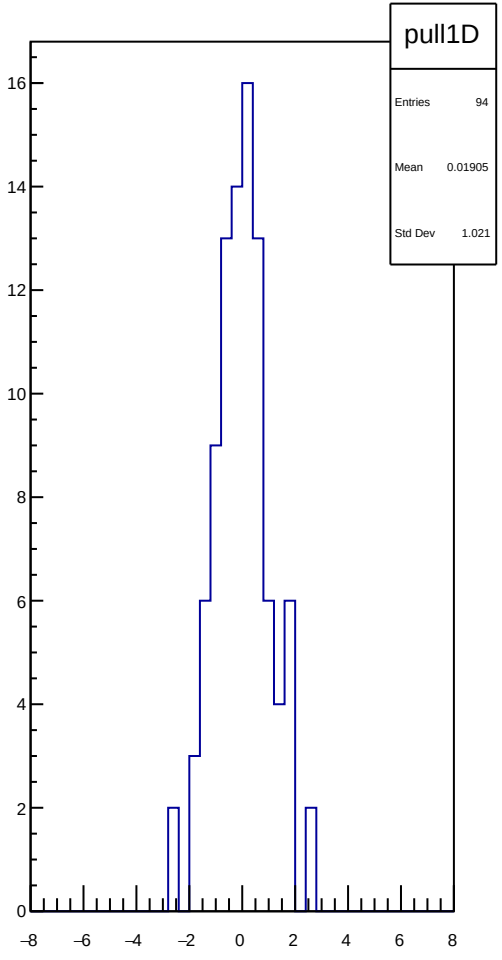

pull1D
Entries 94
Mean 0.01905
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

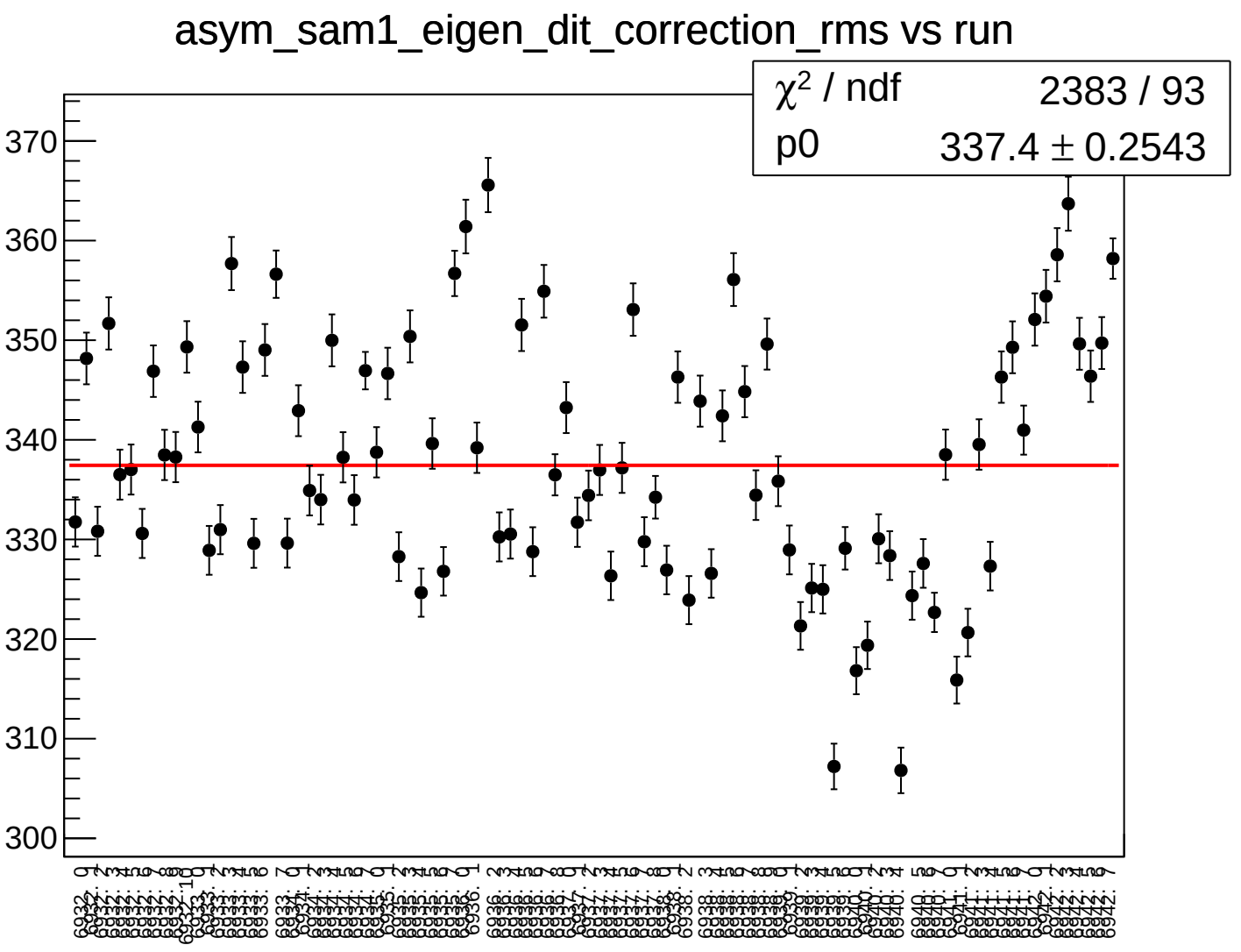

asym_sam1_dit_correction_rms vs run
χ² / ndf 2383 / 93
p0 337.4 ± 0.2543
370
360
350
340
330
320
310
300

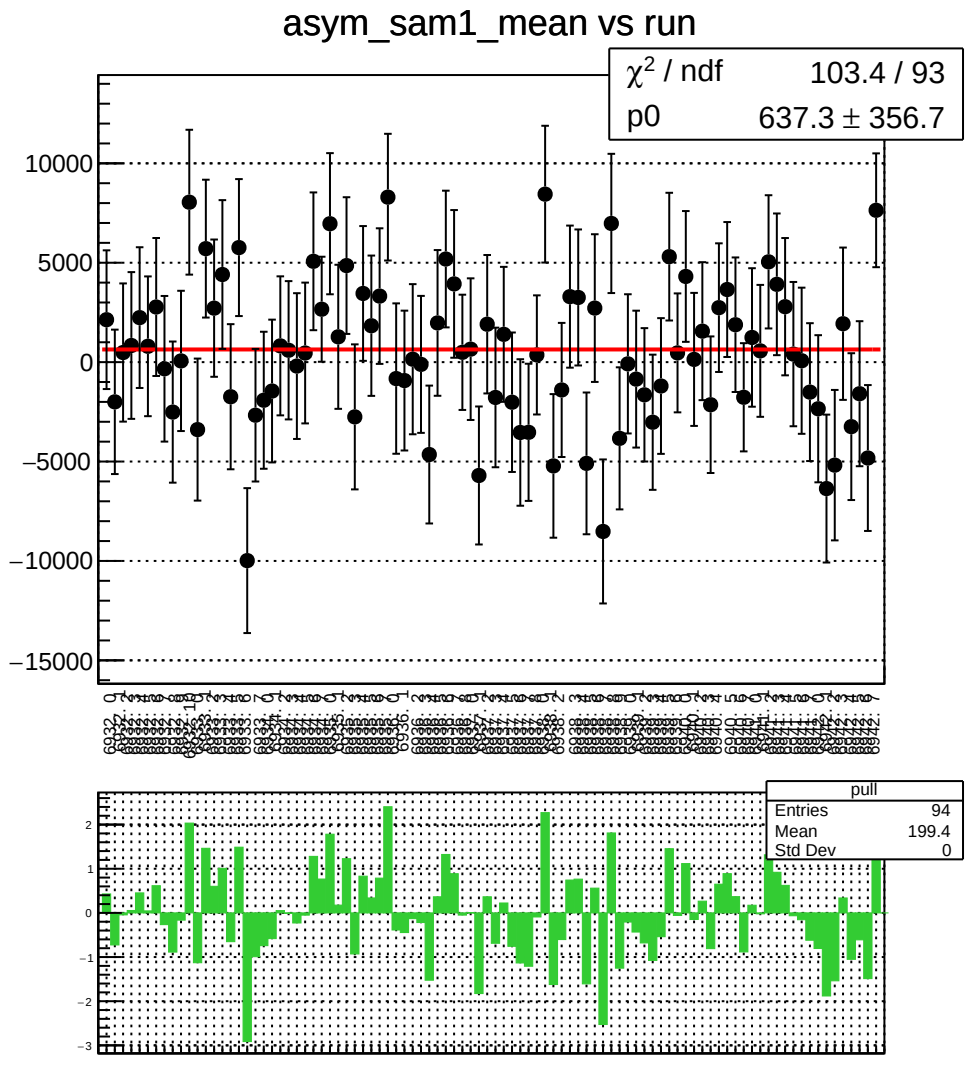

eigen_dit_asym_sam1_mean vs run
χ² / ndf 81.58 / 93
p0 171.3 ± 85.12
pull
Entries 94
Mean −391.8
Std Dev 0
pull1D
Entries 94
Mean 0.003484
Std Dev 0.9316

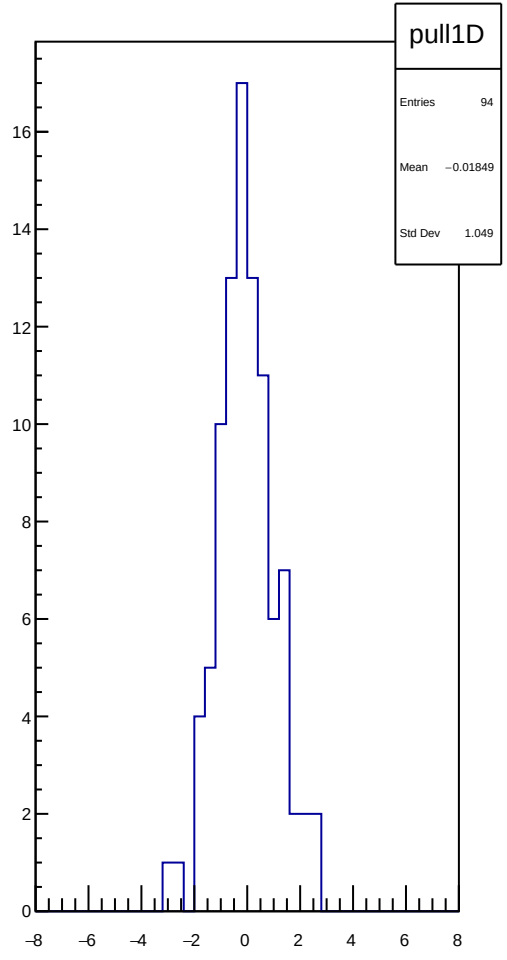

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 691.7 / 93
p0 79.92 ± 0.06019
90
88
86
84
82
80
78
76

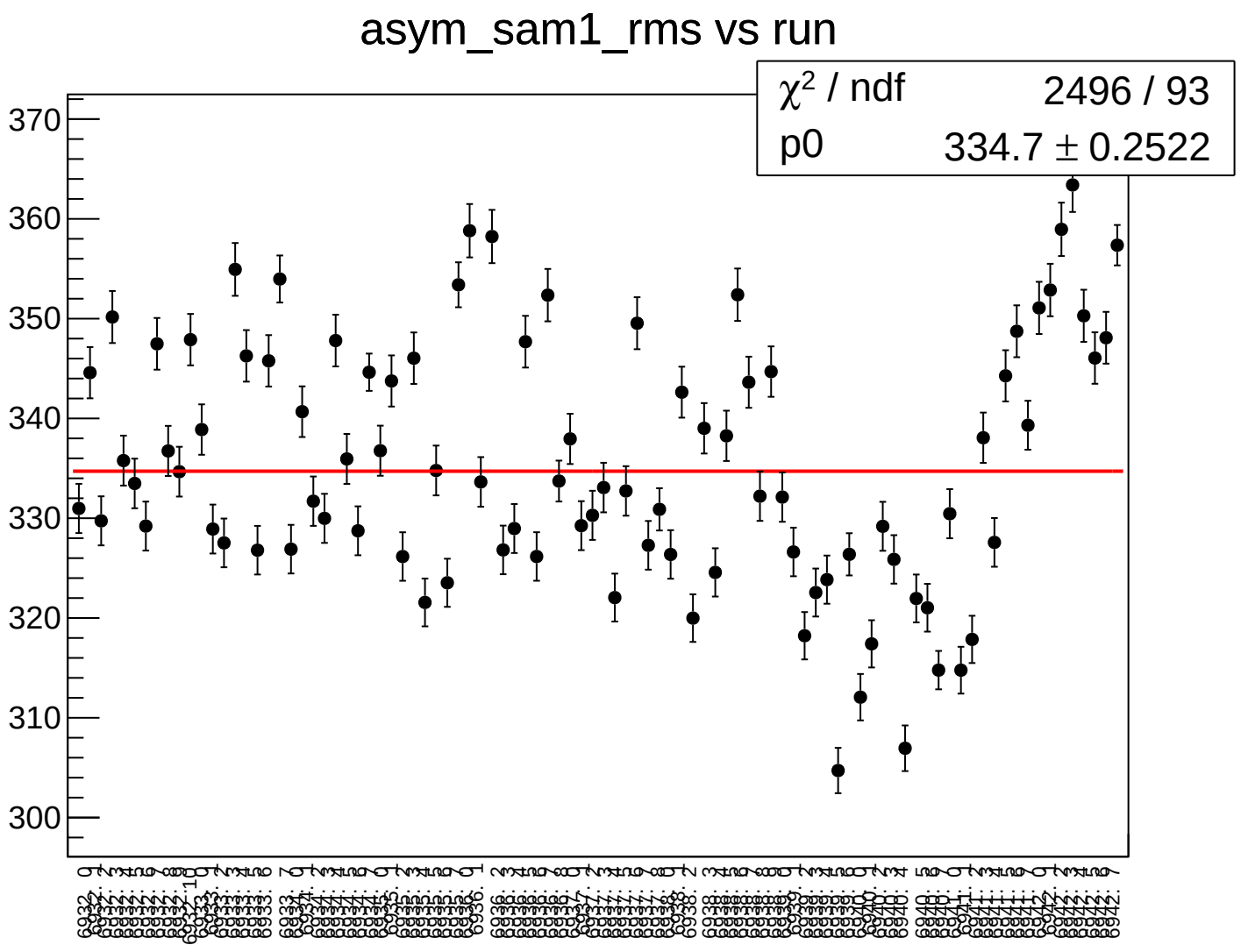

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 98.08 / 93
p0 −464.6 ± 359.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 176.2
Std Dev 0
3
2
1
0
−1
−2

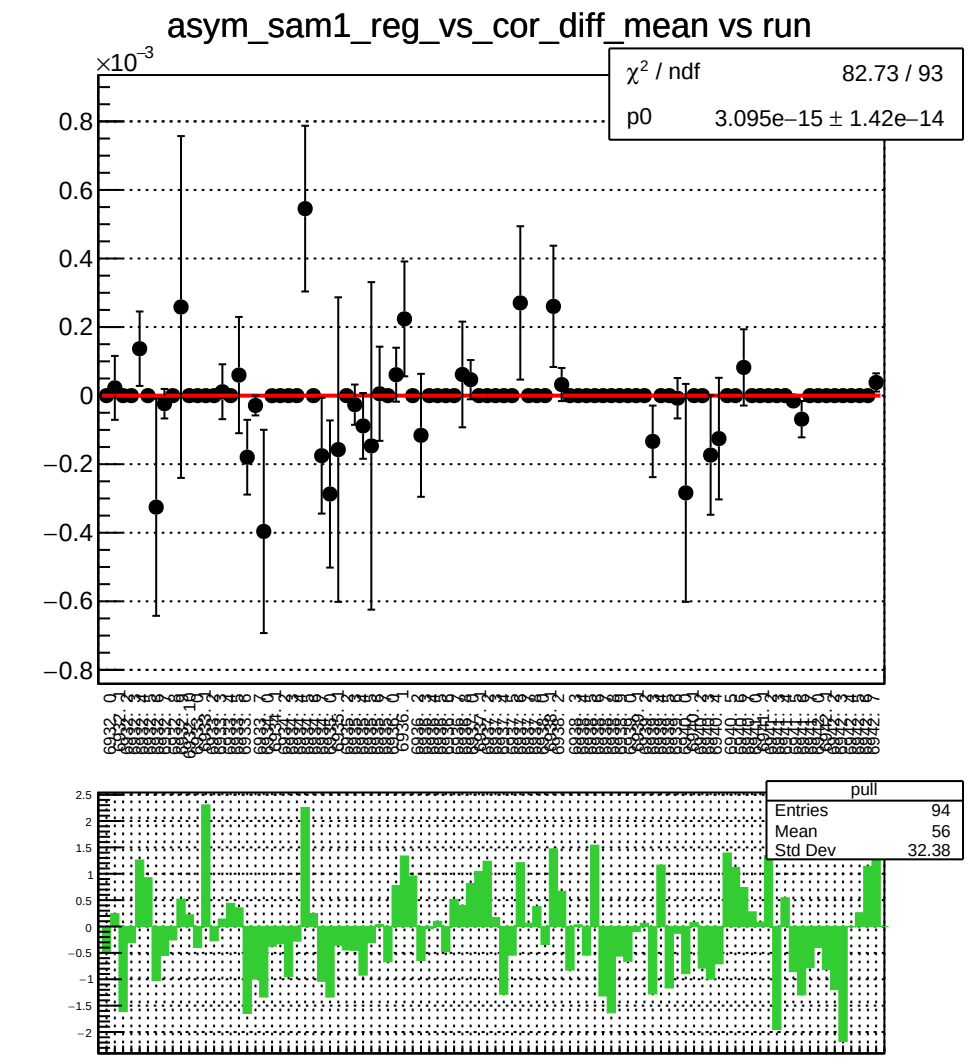

pull1D
Entries 94
Mean 0.01905
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

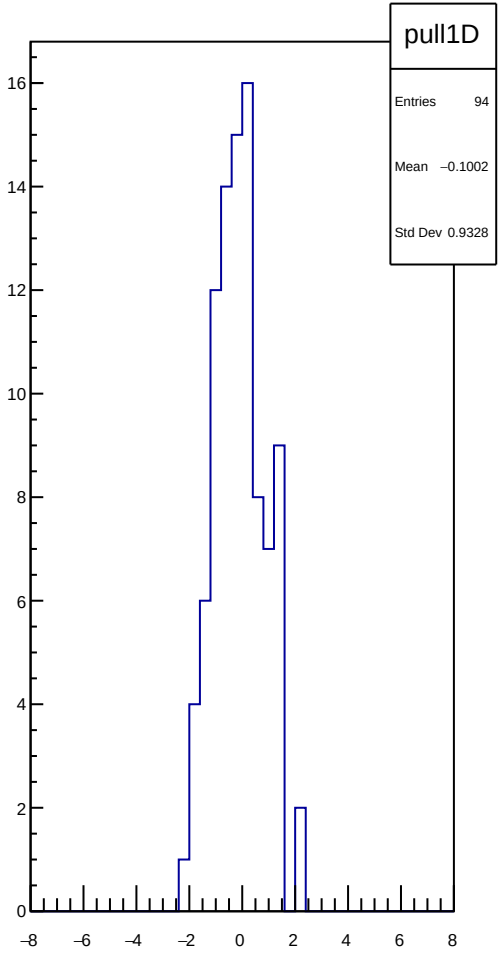

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2383 / 93
p0 337.4 ± 0.2543
370
360
350
340
330
320
310
300

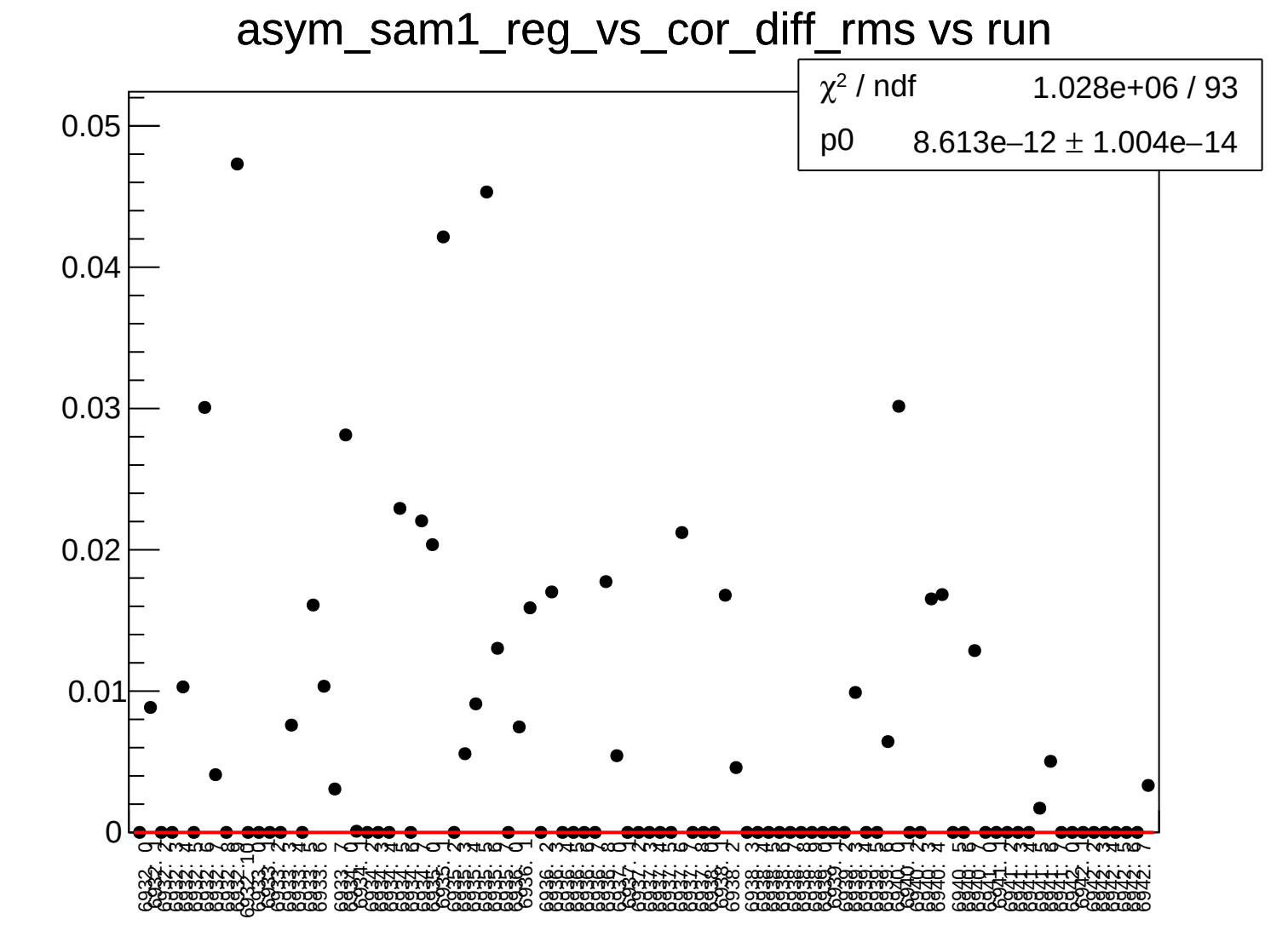

asym_sam1_mean vs run
χ² / ndf 103.4 / 93
p0 637.3 ± 356.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 199.4
Std Dev 0
2
1
0
−1
−2
−3

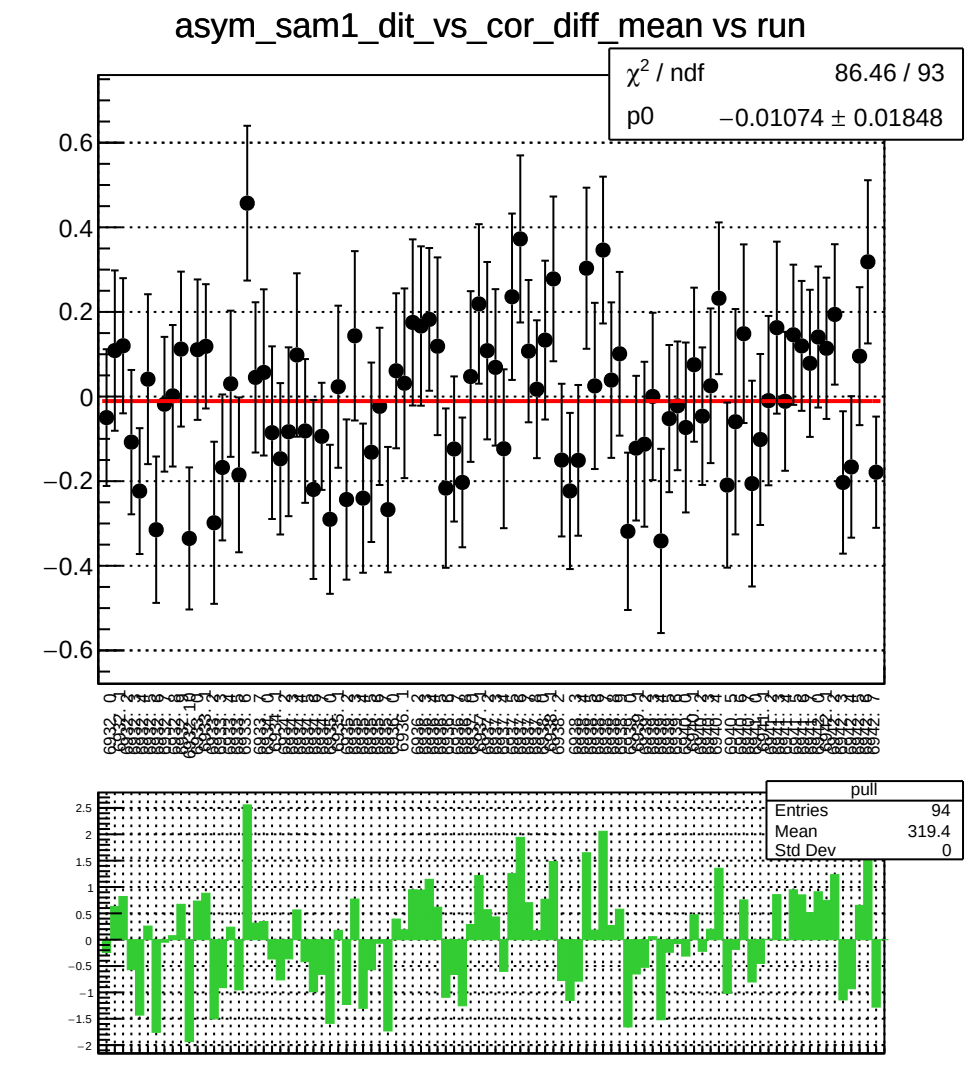

pull1D
Entries 94
Mean −0.01849
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

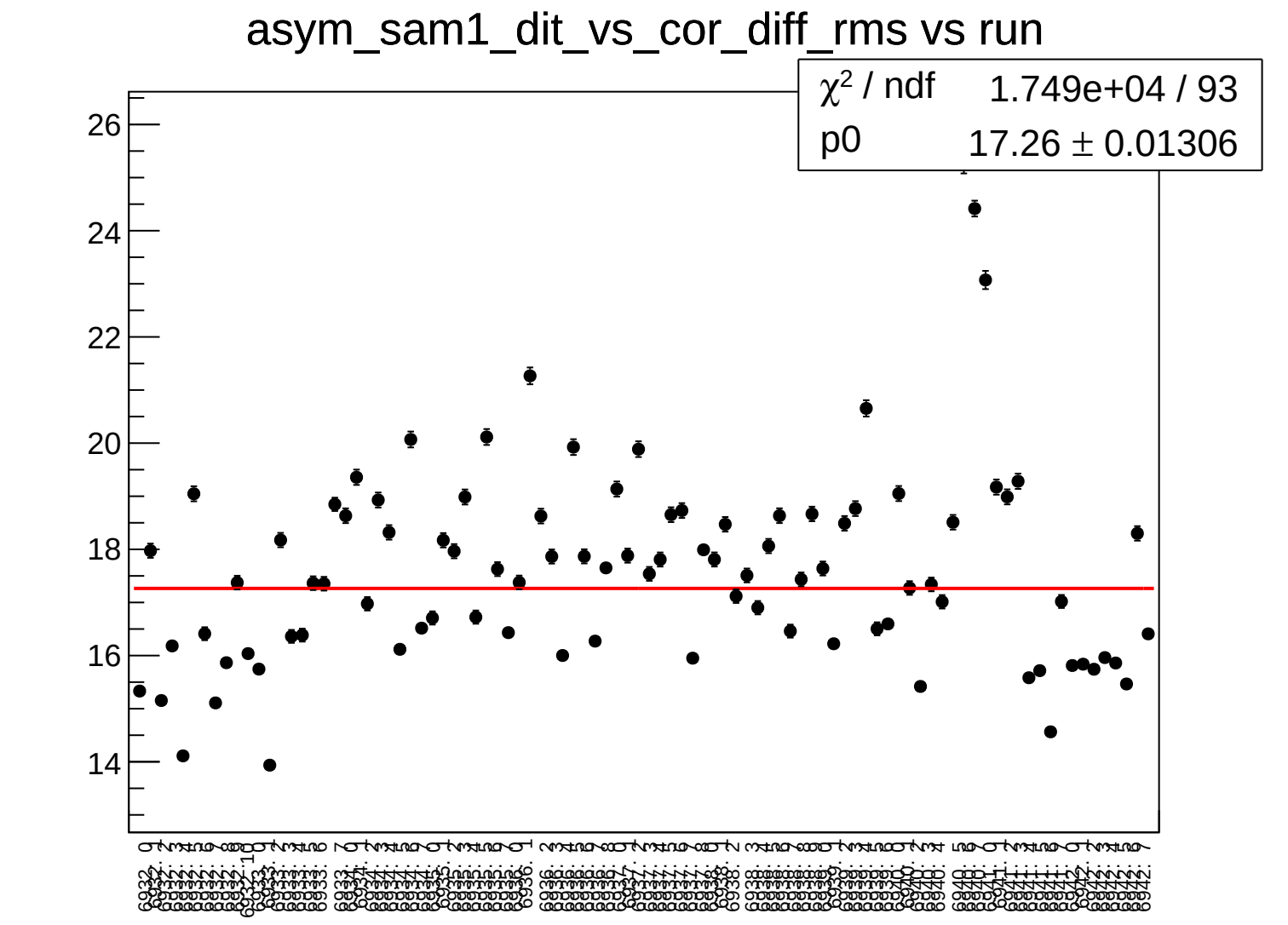

asym_sam1_rms vs run
χ² / ndf 2496 / 93
p0 334.7 ± 0.2522
370
360
350
340
330
320
310
300

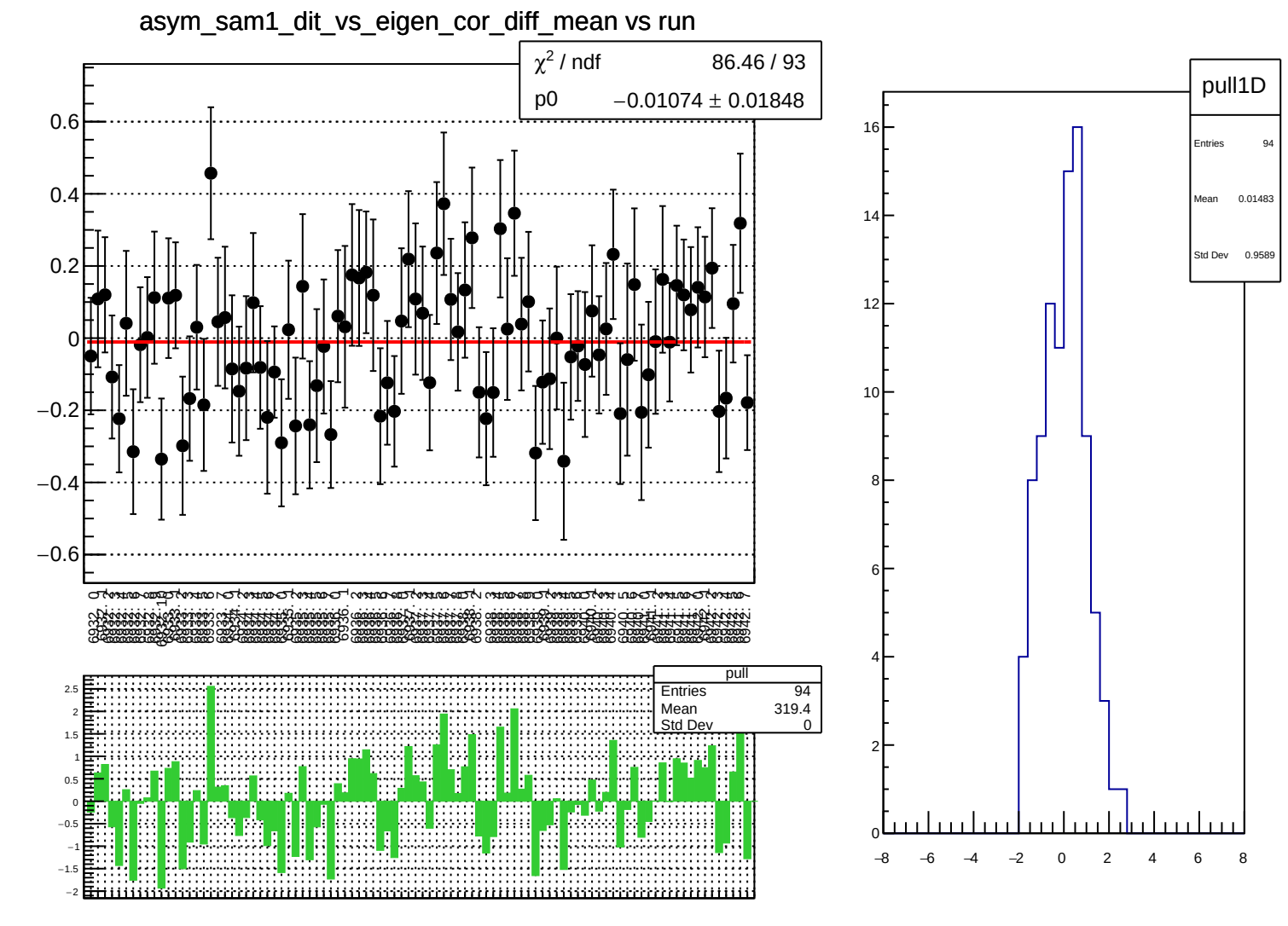

asym_sam1_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.73 / 93
p0 3.095e−15 ± 1.42e−14
pull
Entries 94
Mean 56
Std Dev 32.38

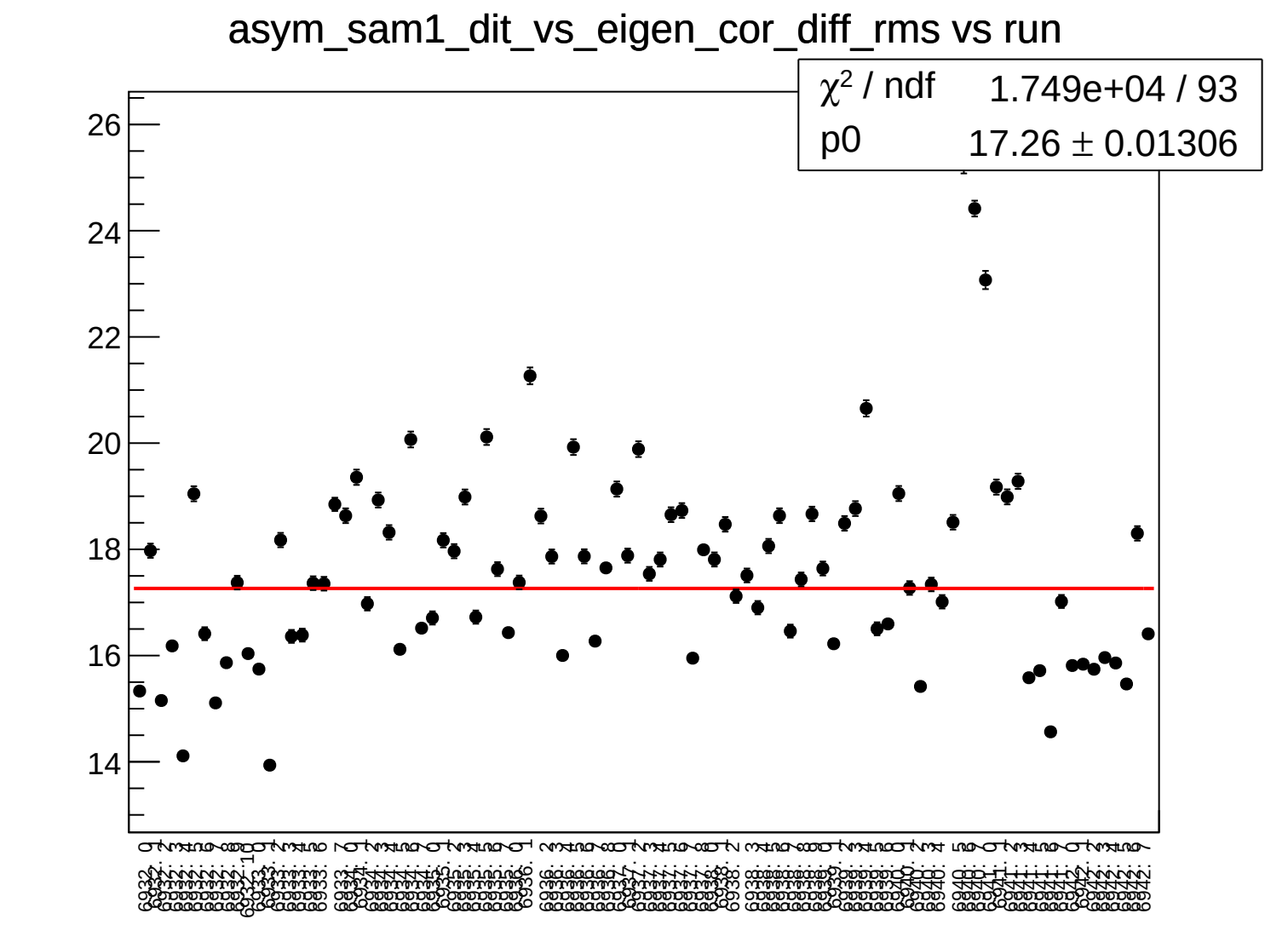

pull1D
Entries 94
Mean −0.1002
Std Dev 0.9328

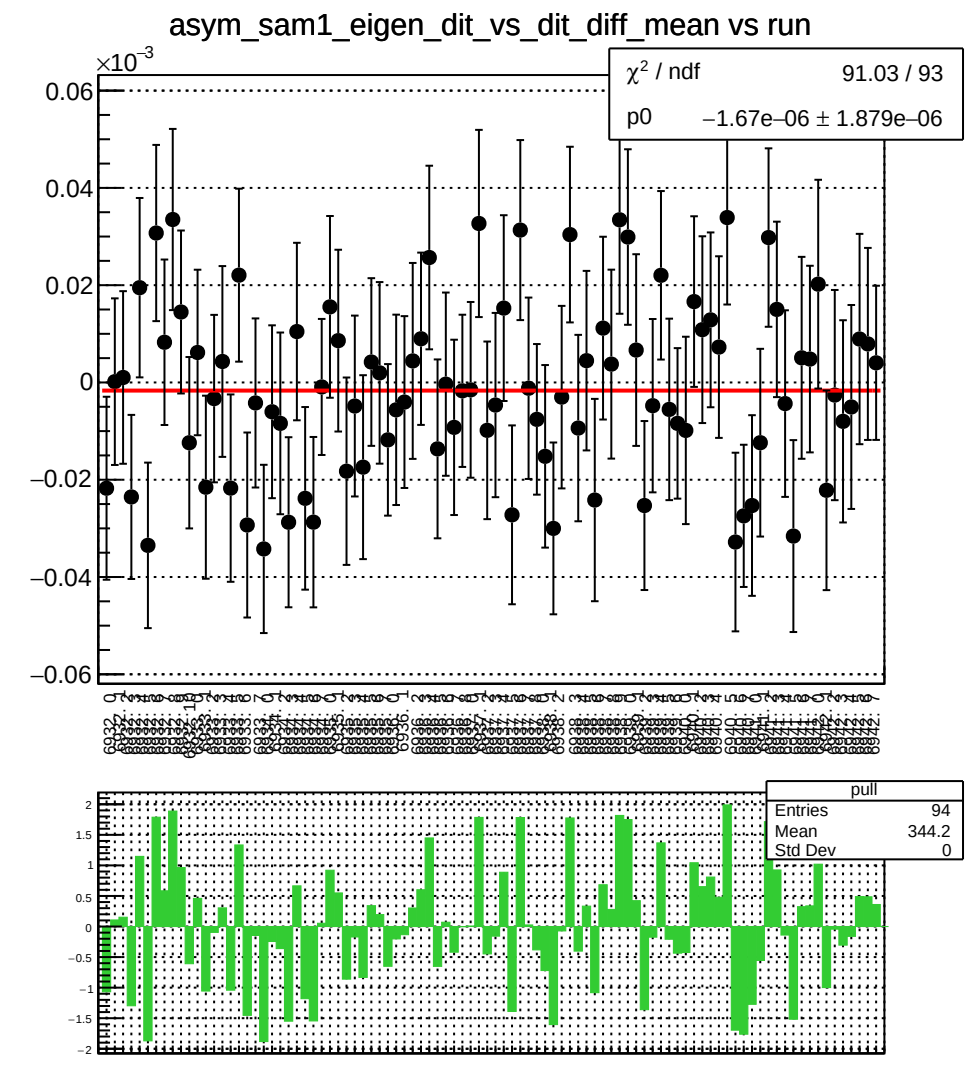

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 93
p0 8.613e−12 ± 1.004e−14
0.05
0.04
0.03
0.02
0.01
0

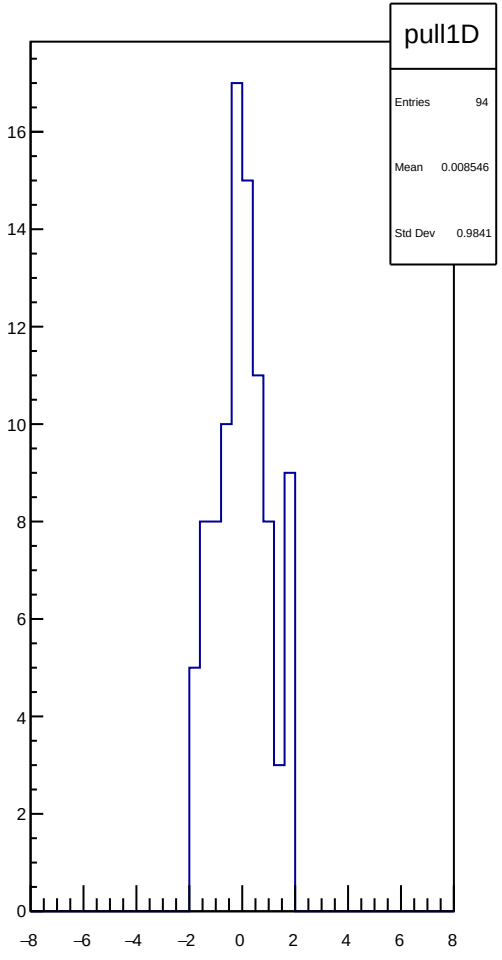

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.46 / 93
p0 −0.01074 ± 0.01848
pull
Entries 94
Mean 319.4
Std Dev 0
pull1D
Entries 94
Mean 0.01483
Std Dev 0.9589

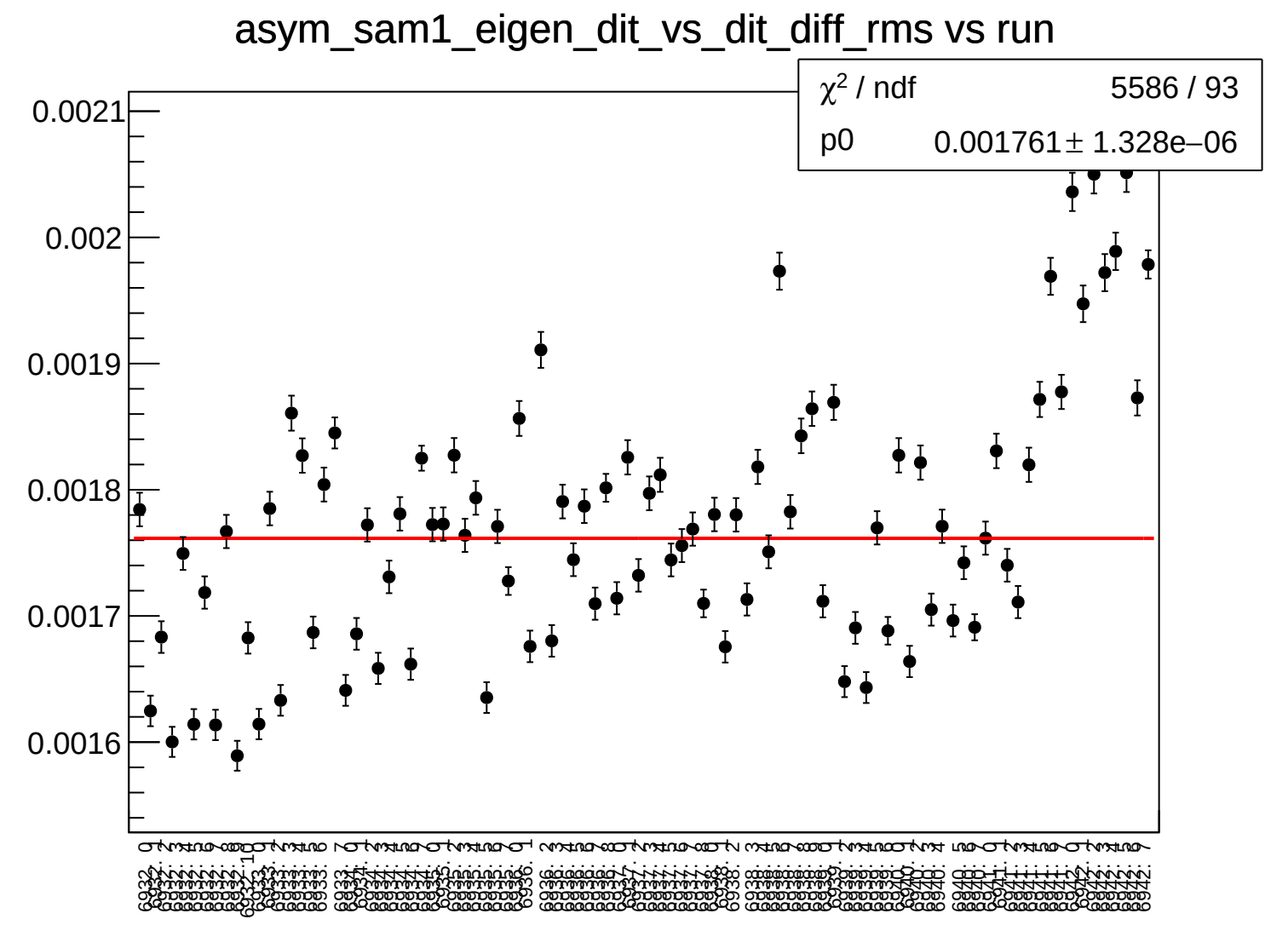

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 93
p0 17.26 ± 0.01306
26
24
22
20
18
16
14

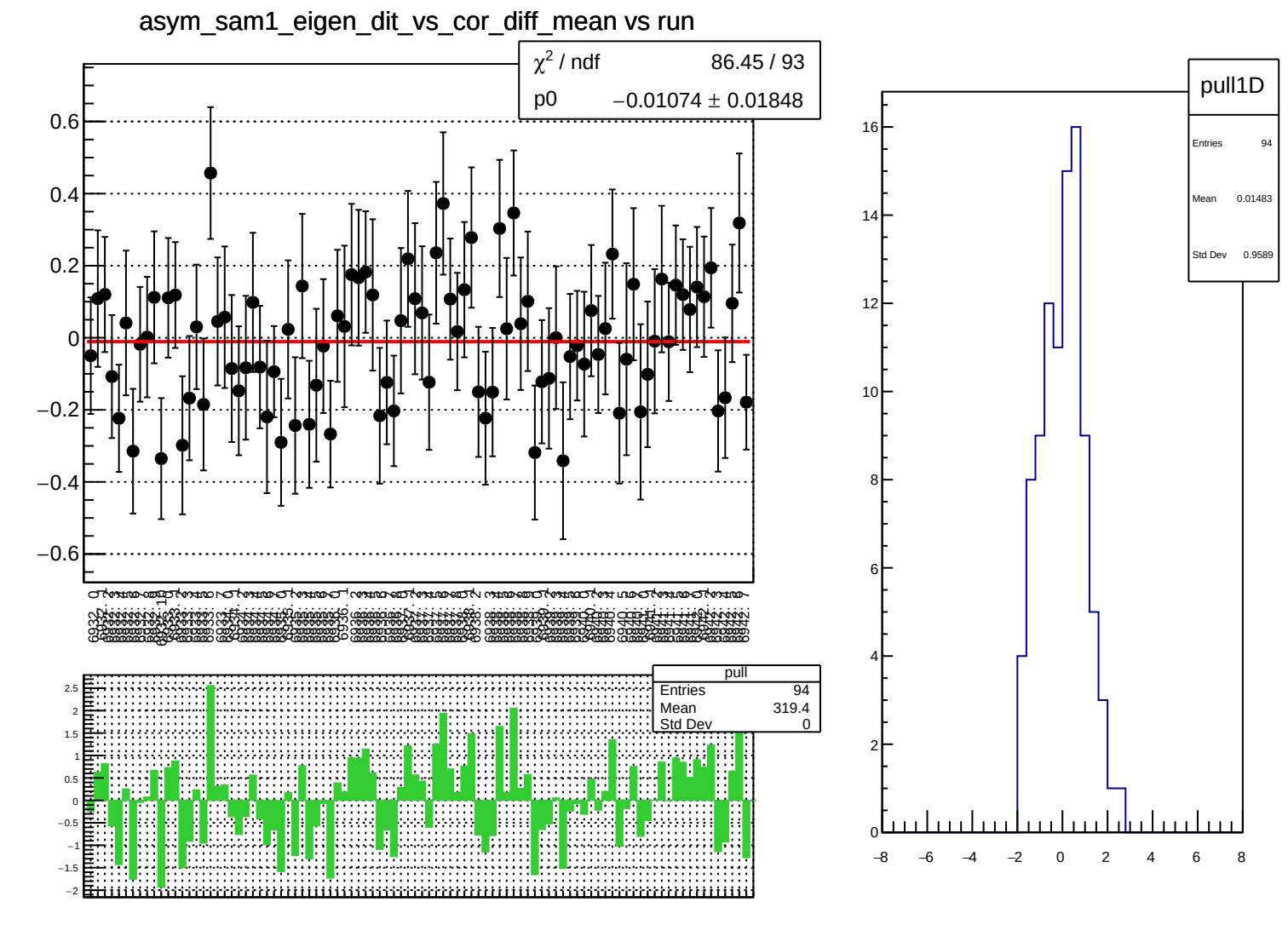

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.46 / 93
p0 −0.01074 ± 0.01848
pull
Entries 94
Mean 319.4
Std Dev 0
pull1D
Entries 94
Mean 0.01483
Std Dev 0.9589

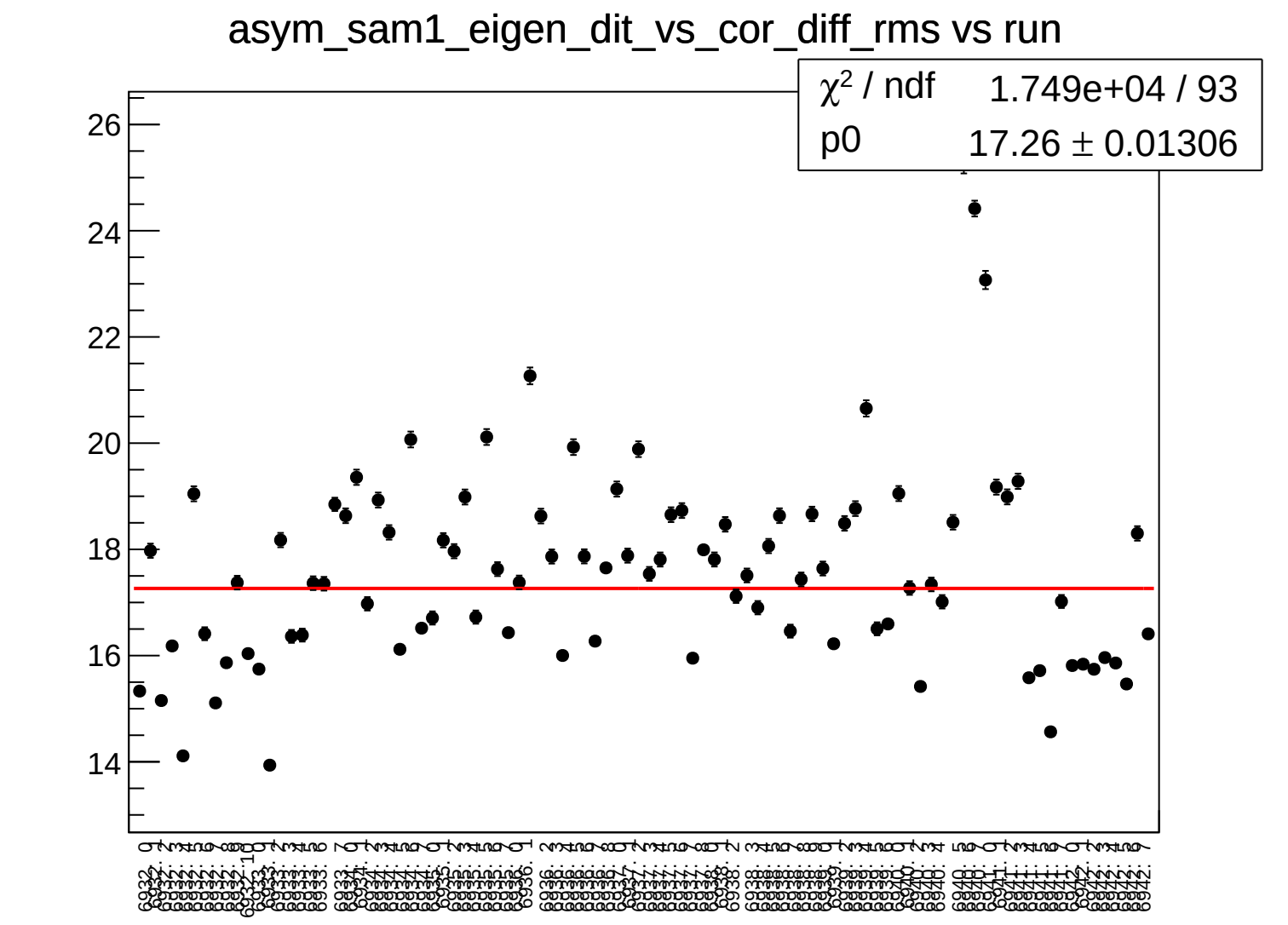

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 93
p0 17.26 ± 0.01306
26
24
22
20
18
16
14

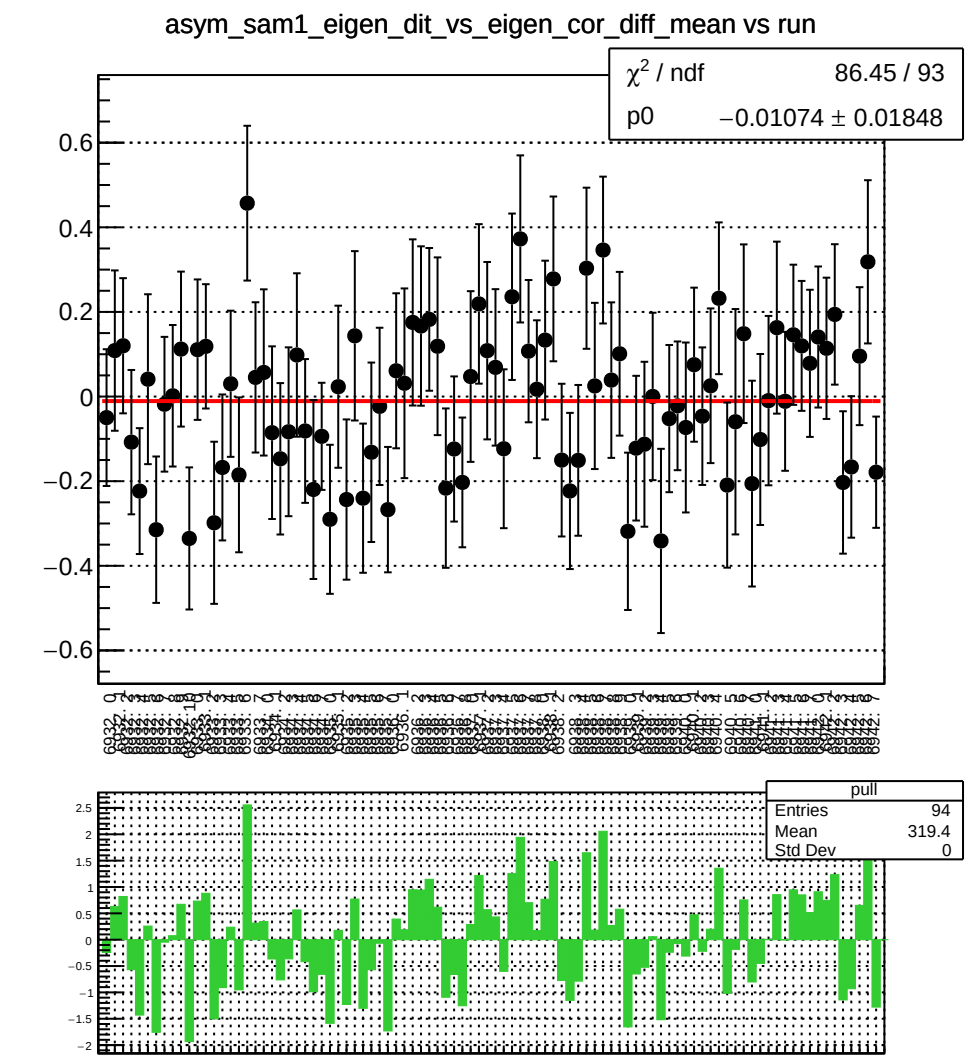

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.03 / 93
p0 −1.67e−06 ± 1.879e−06
pull
Entries 94
Mean 344.2
Std Dev 0

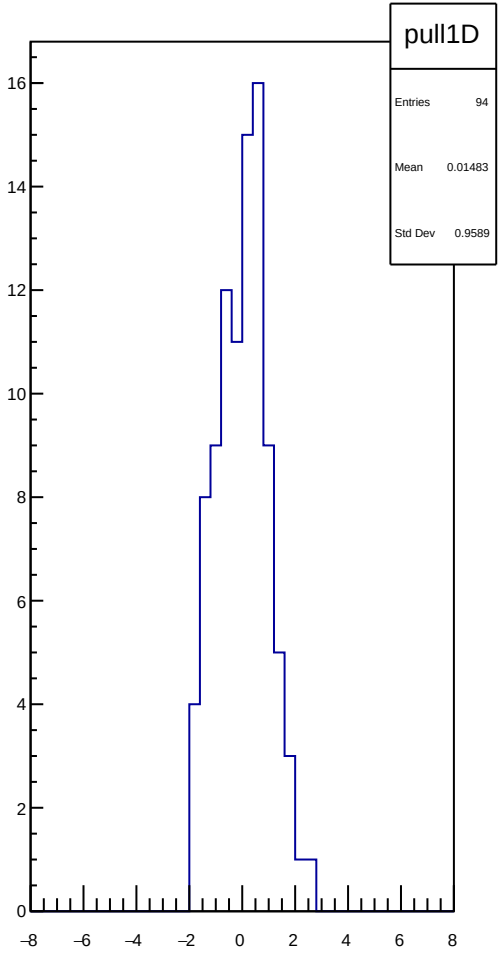

pull1D
Entries 94
Mean 0.008546
Std Dev 0.9841

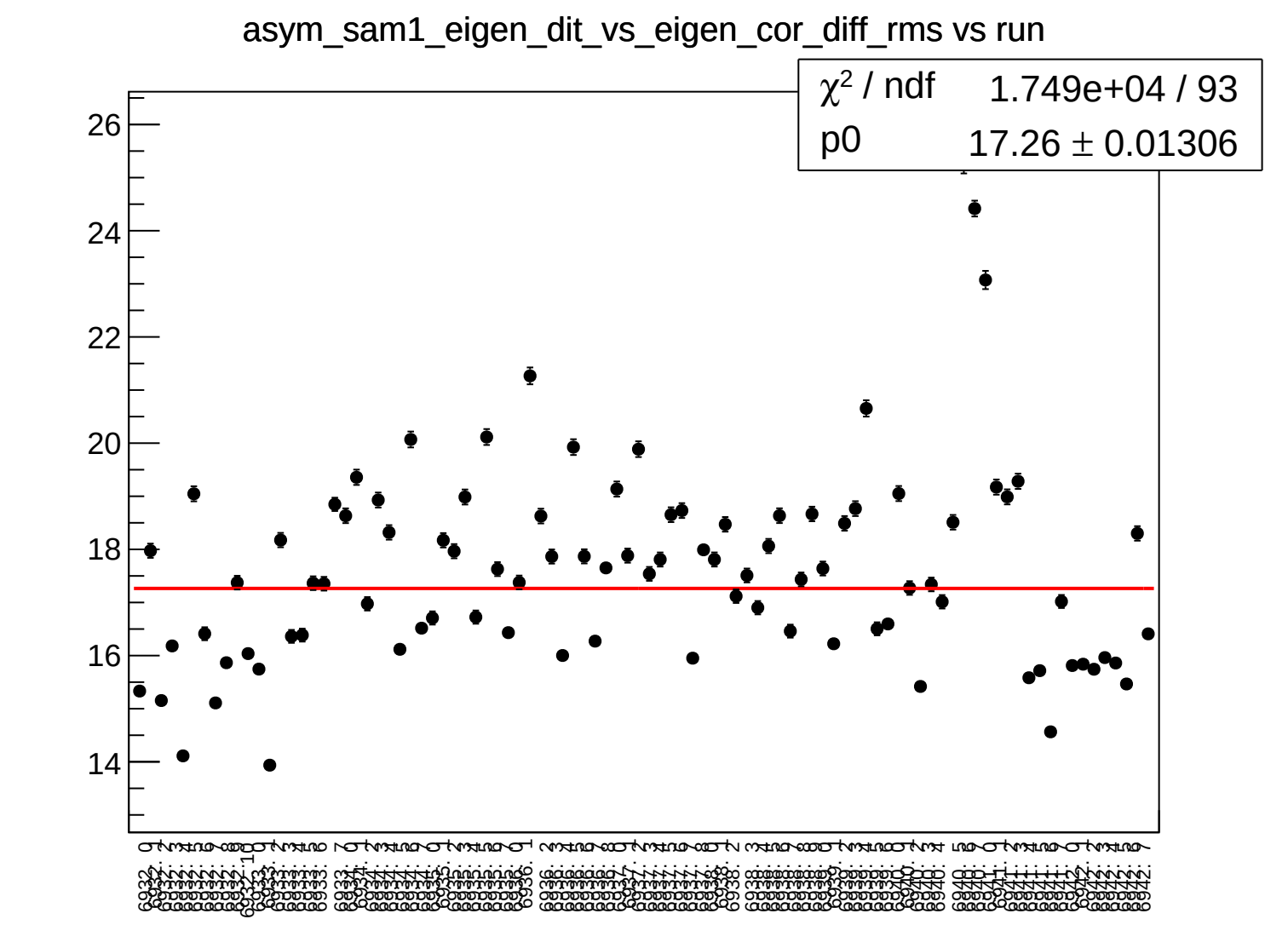

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5586 / 93
p0 0.001761 ± 1.328e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

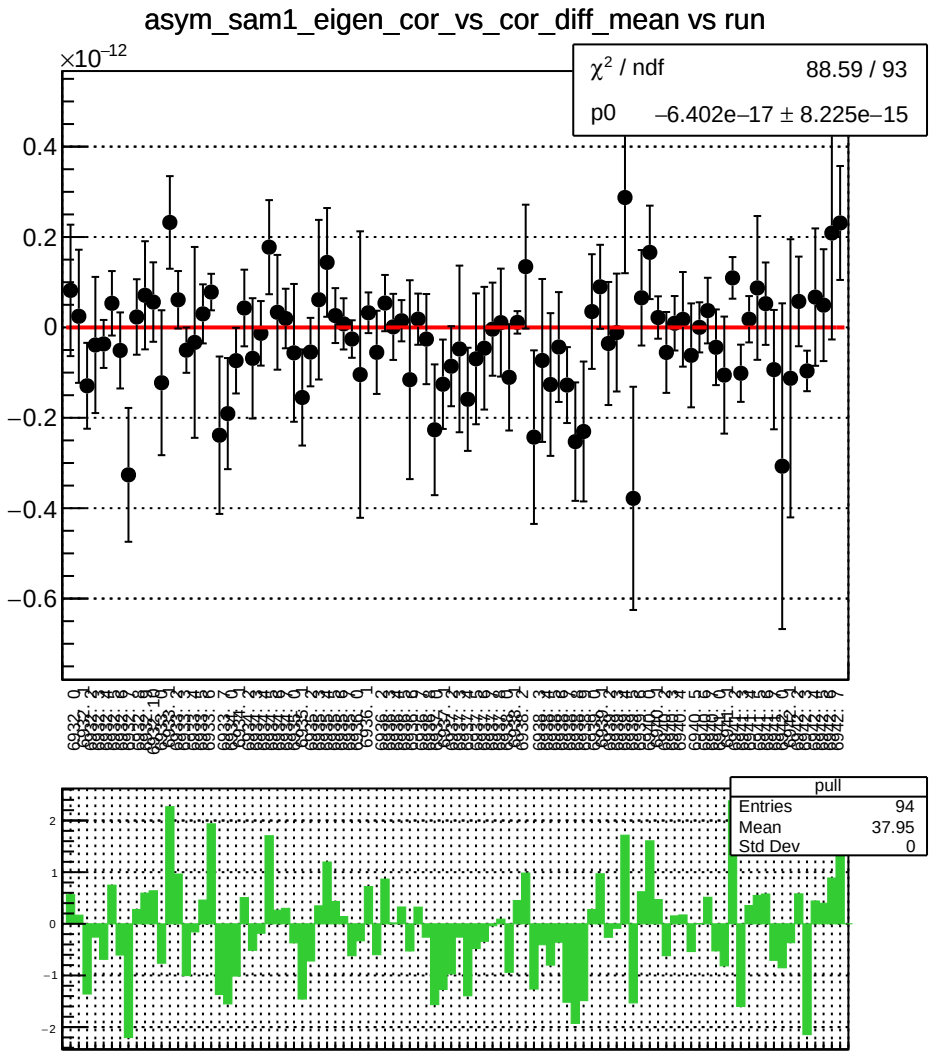

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.45 / 93
p0 −0.01074 ± 0.01848
pull
Entries 94
Mean 319.4
Std Dev 0
pull1D
Entries 94
Mean 0.01483
Std Dev 0.9589

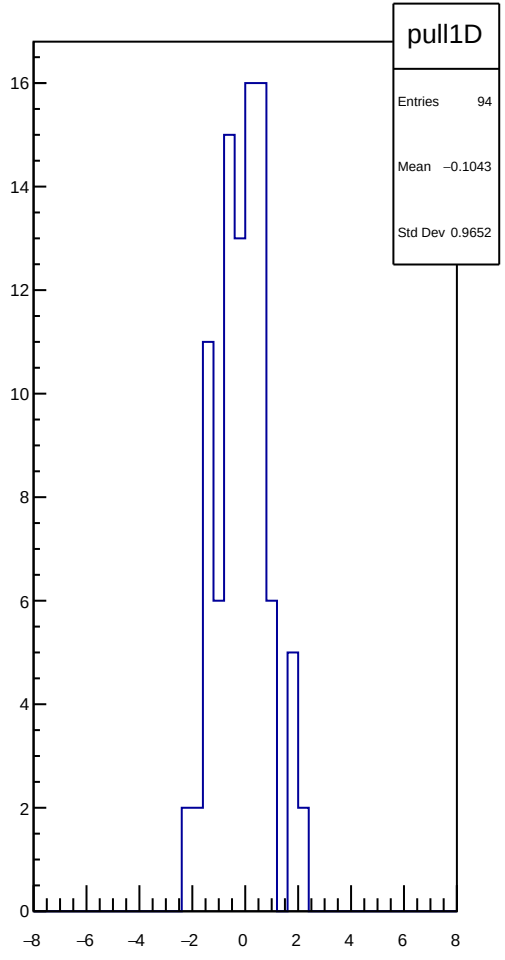

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 93
p0 17.26 ± 0.01306
26
24
22
20
18
16
14

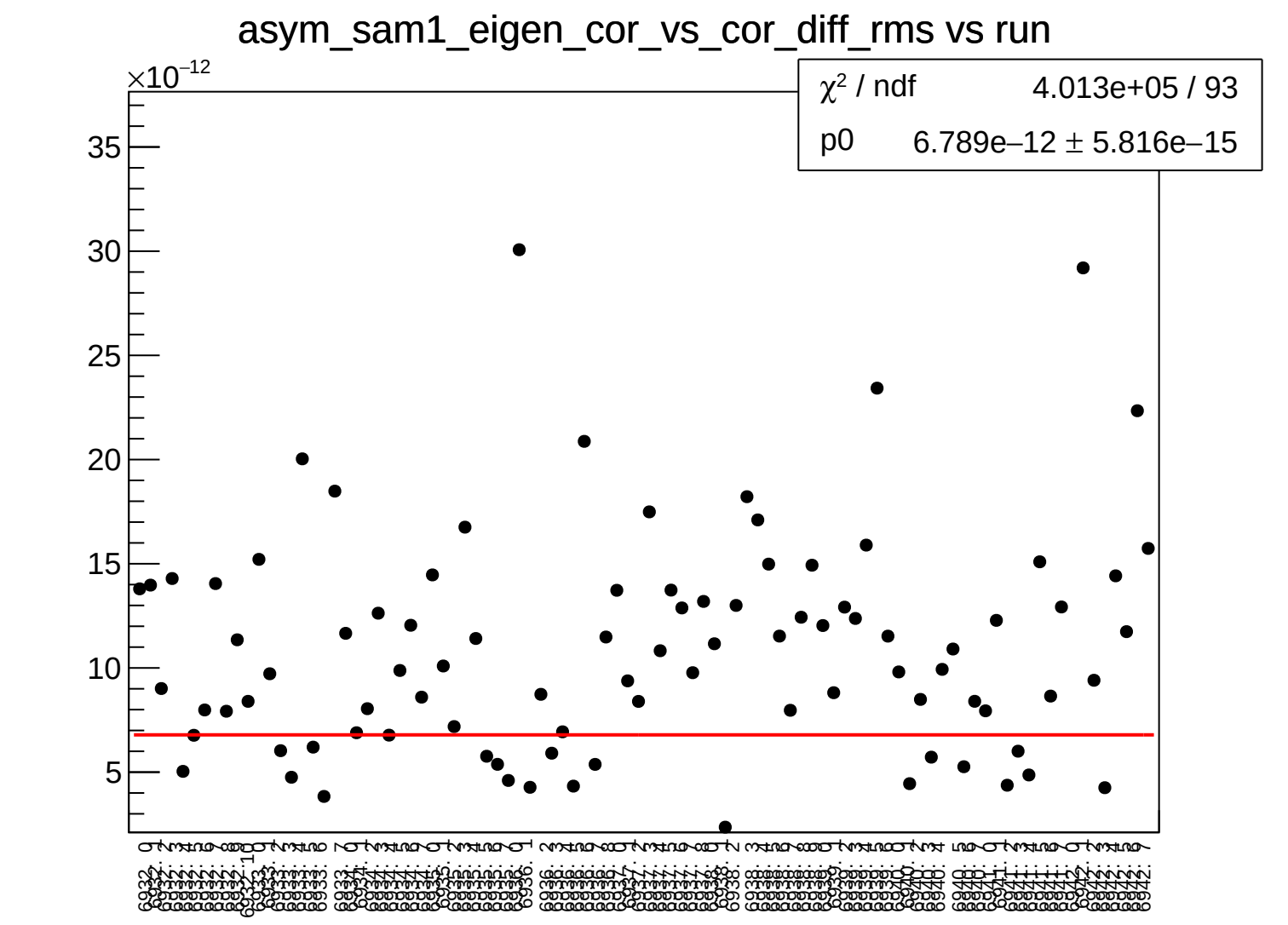

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.45 / 93
p0 −0.01074 ± 0.01848
pull
Entries 94
Mean 319.4
Std Dev 0

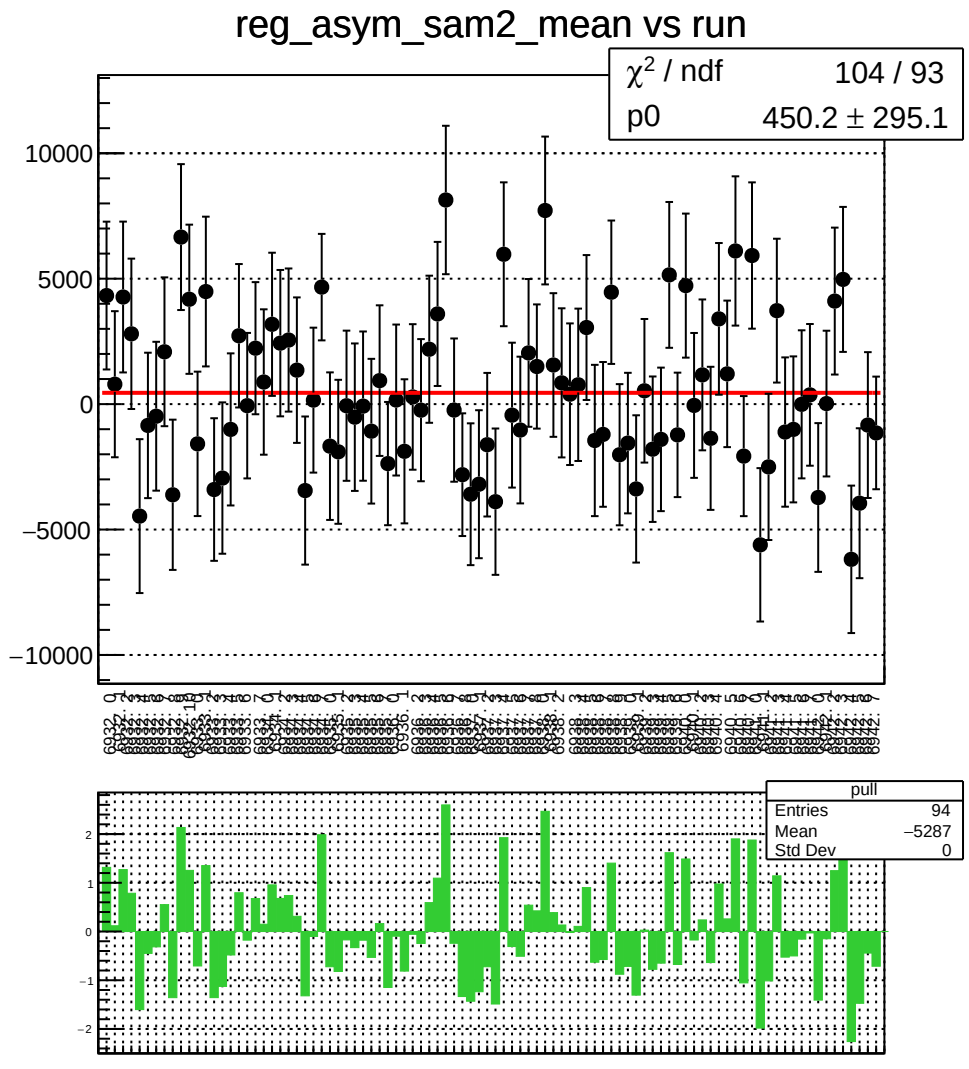

pull1D
Entries 94
Mean 0.01483
Std Dev 0.9589

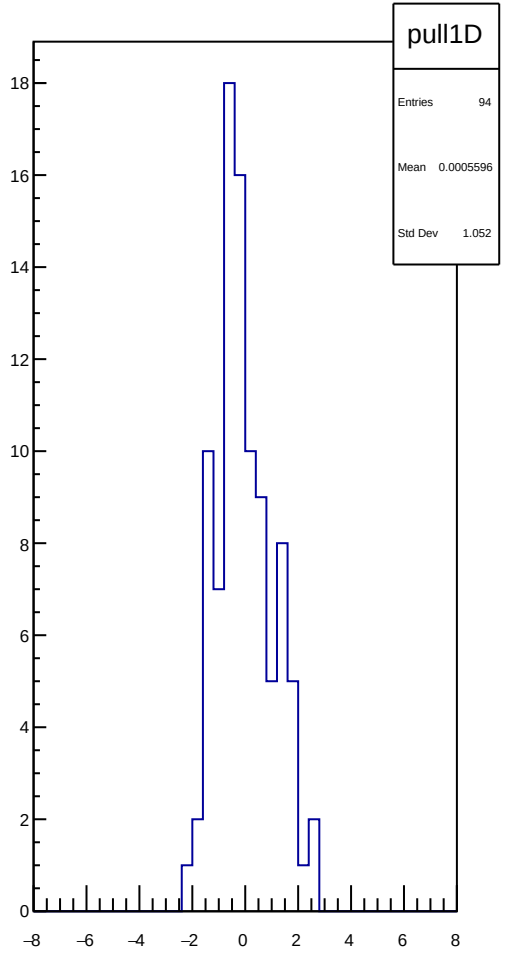

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.749e+04 / 93
p0 17.26 ± 0.01306
26
24
22
20
18
16
14

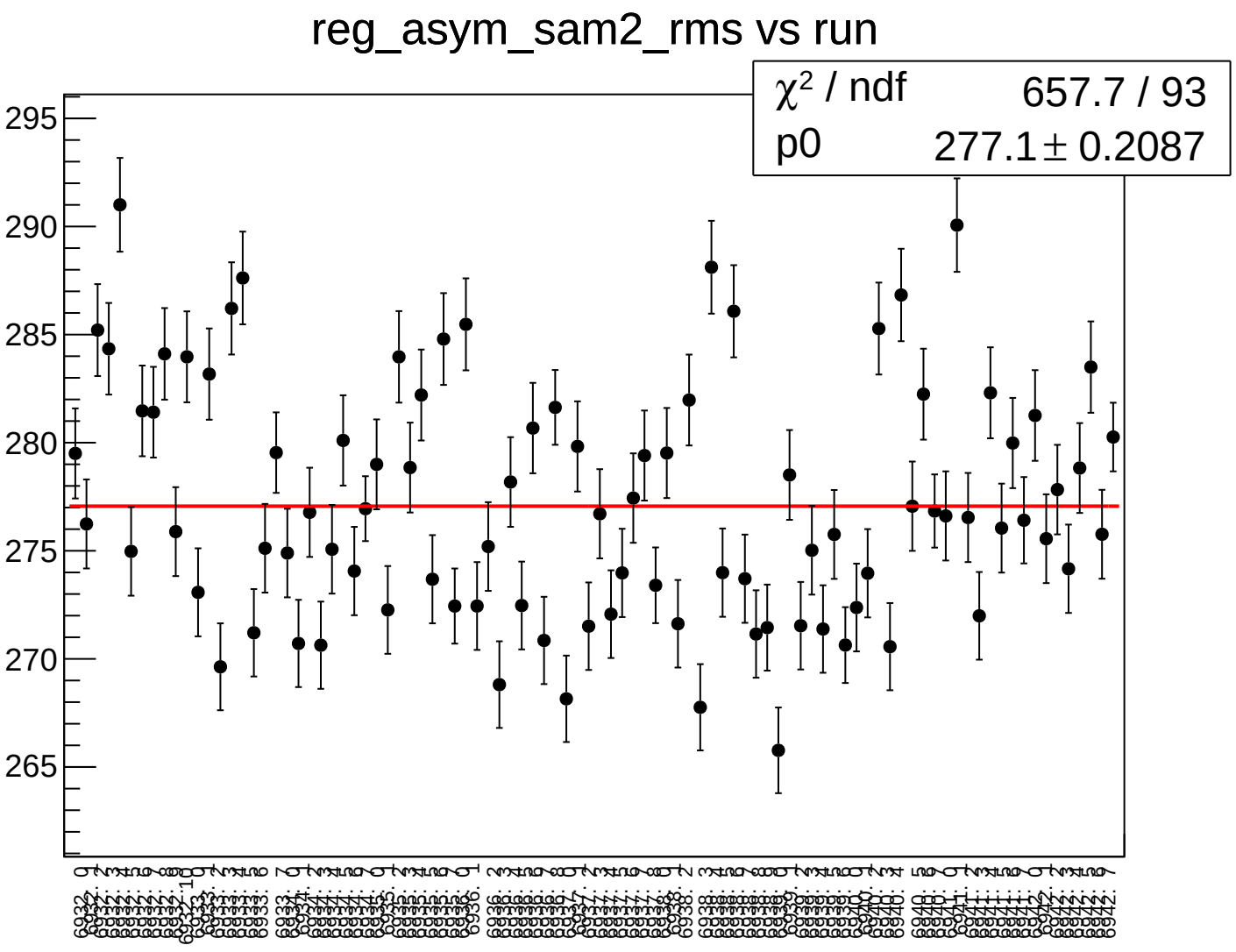

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.59 / 93
p0 −6.402e−17 ± 8.225e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 37.95
Std Dev 0
2
1
0
−1
−2

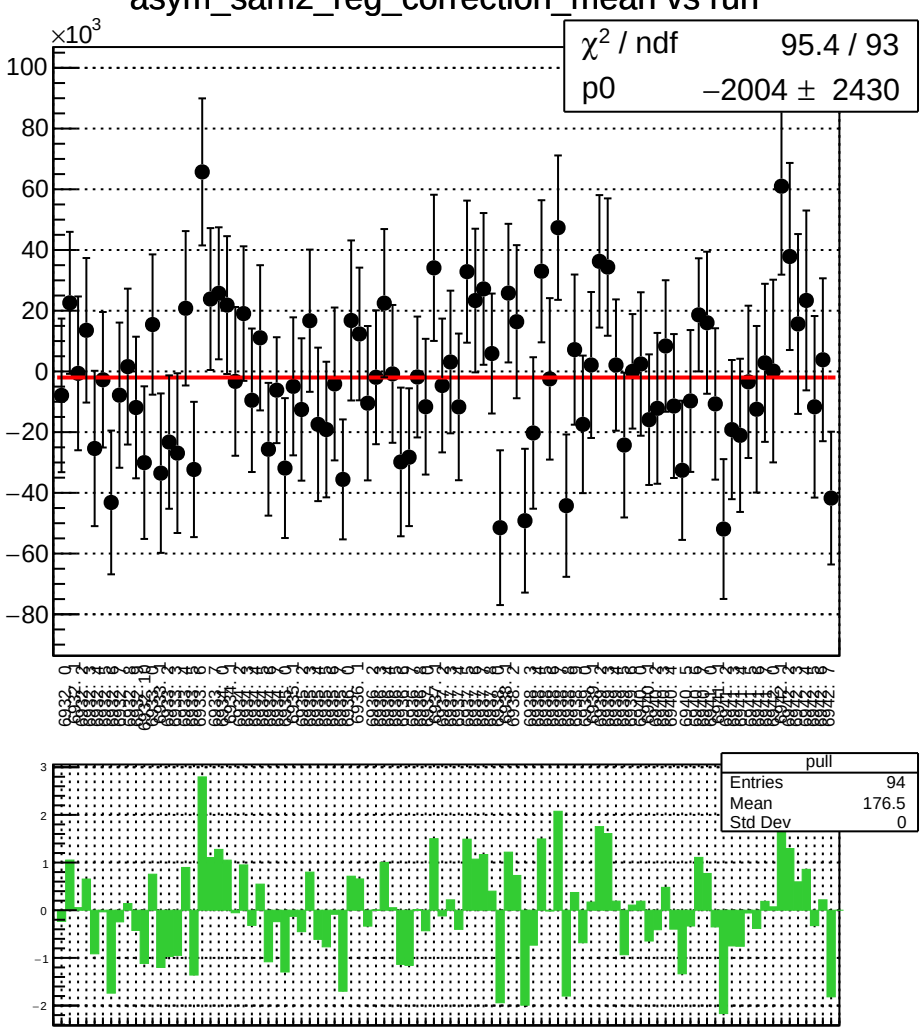

pull1D
Entries 94
Mean −0.1043
Std Dev 0.9652
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

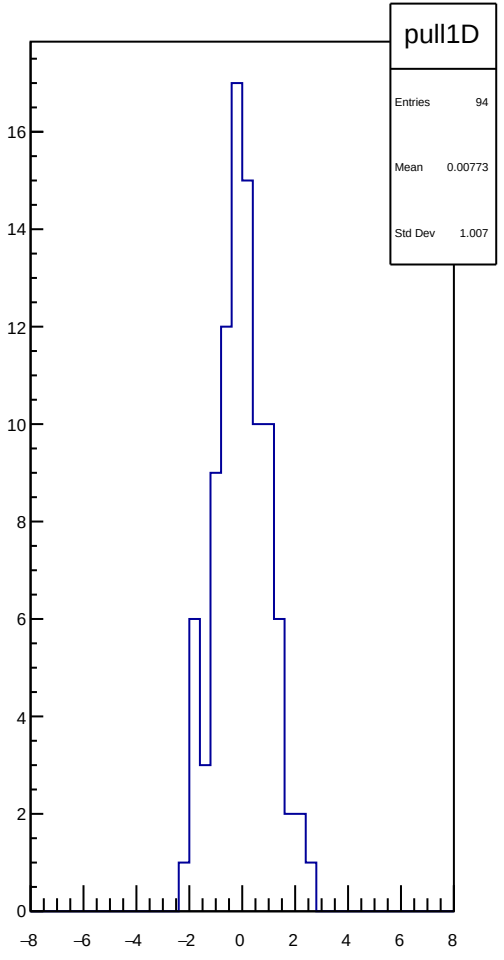

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.013e+05 / 93
p0 6.789e−12 ± 5.816e−15
35
30
25
20
15
10
5

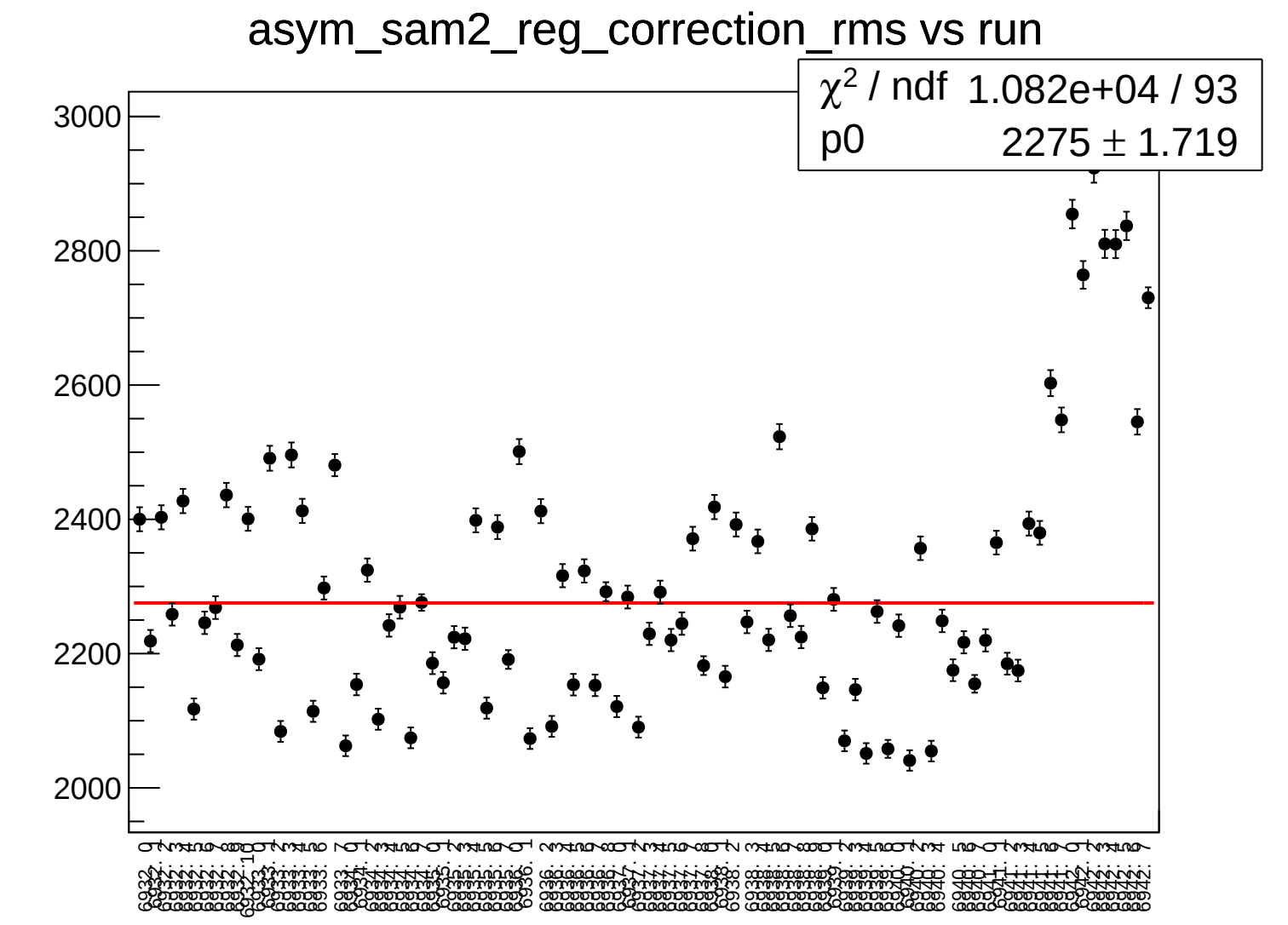

reg_asym_sam2_mean vs run
χ² / ndf 104 / 93
p0 450.2 ± 295.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −5287
Std Dev 0
2
1
0
−1
−2

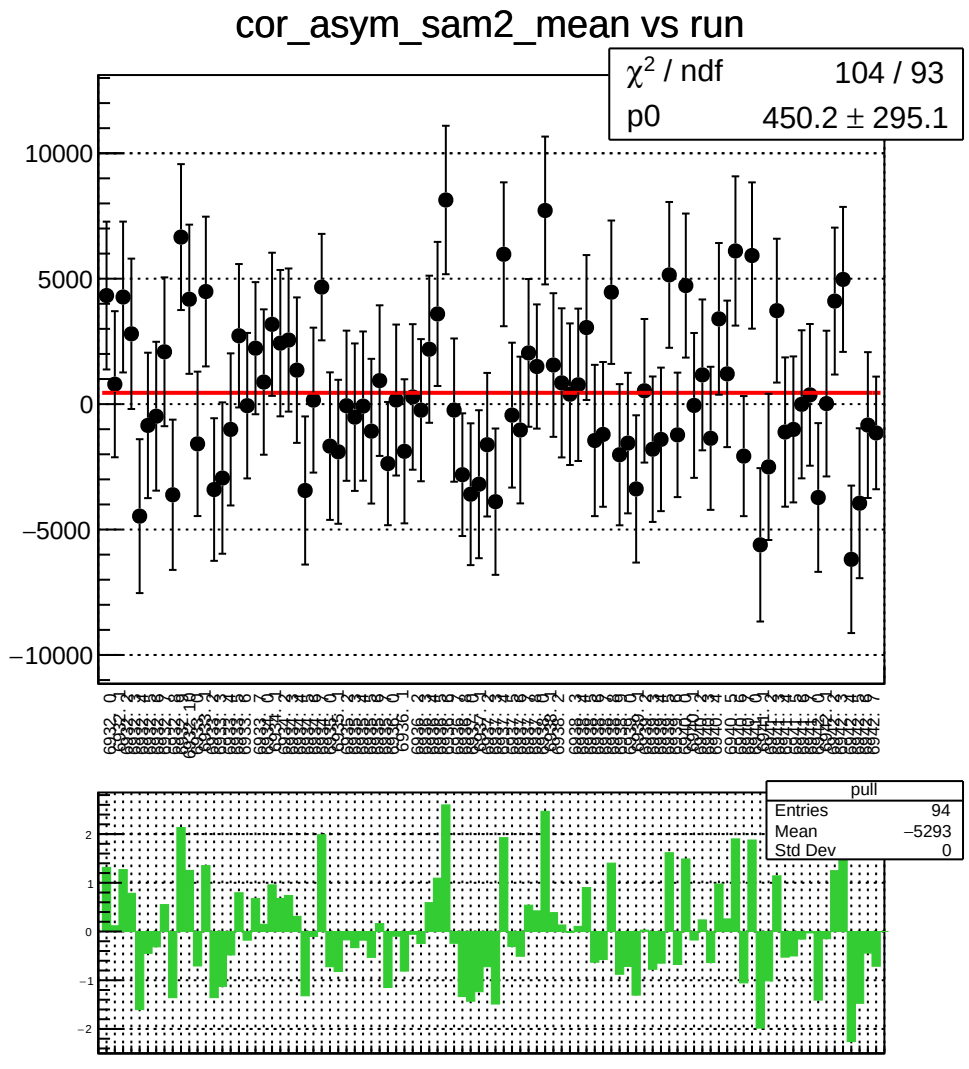

pull1D
Entries 94
Mean 0.0005596
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

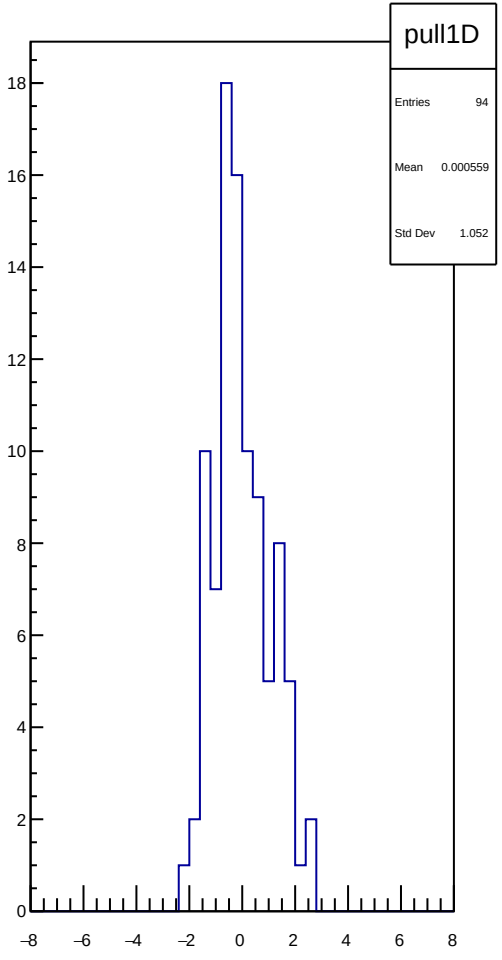

reg_asym_sam2_rms vs run
χ² / ndf 657.7 / 93
p0 277.1 ± 0.2087
295
290
285
280
275
270
265

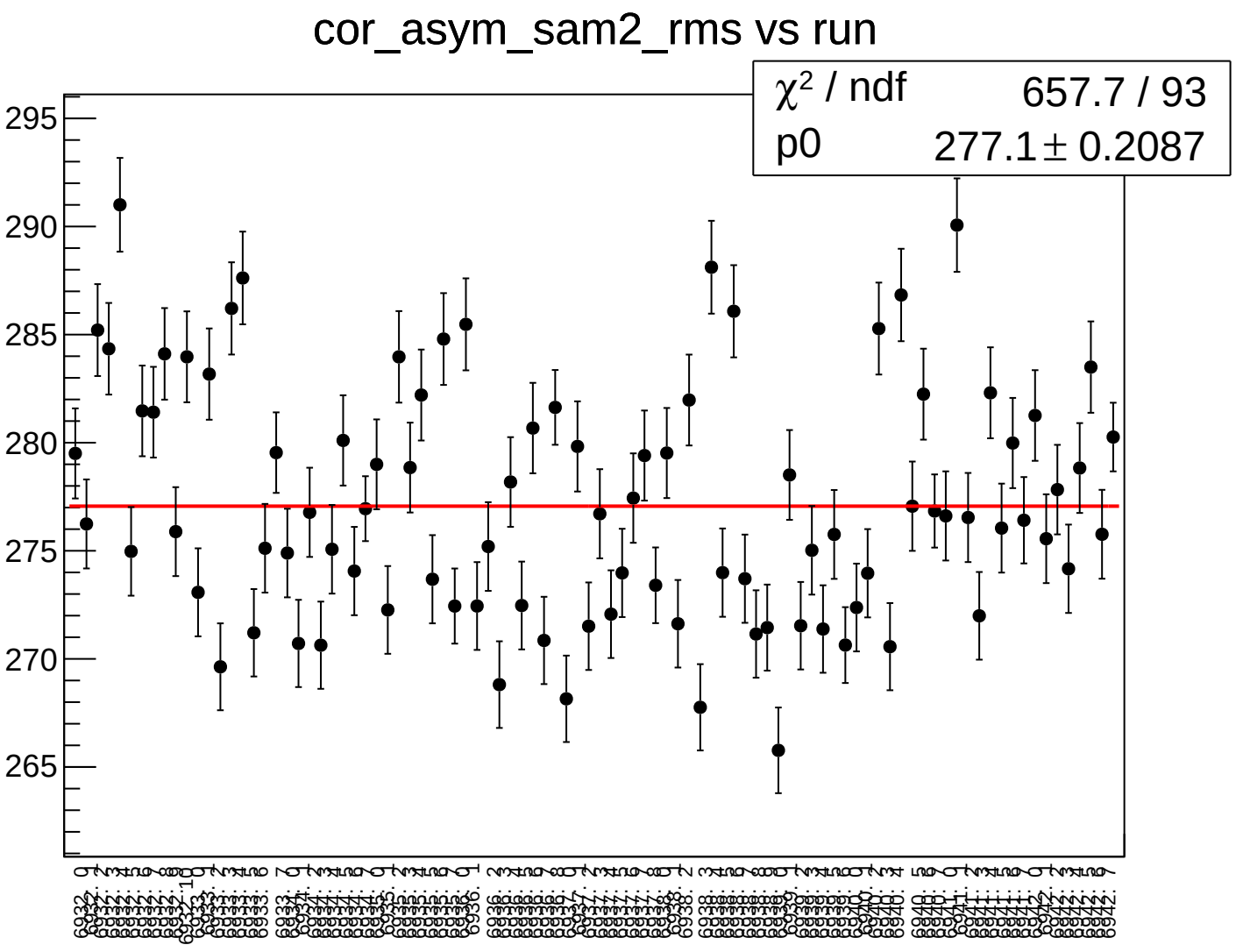

asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 95.4 / 93
p0 −2004 ± 2430
pull
Entries 94
Mean 176.5
Std Dev 0

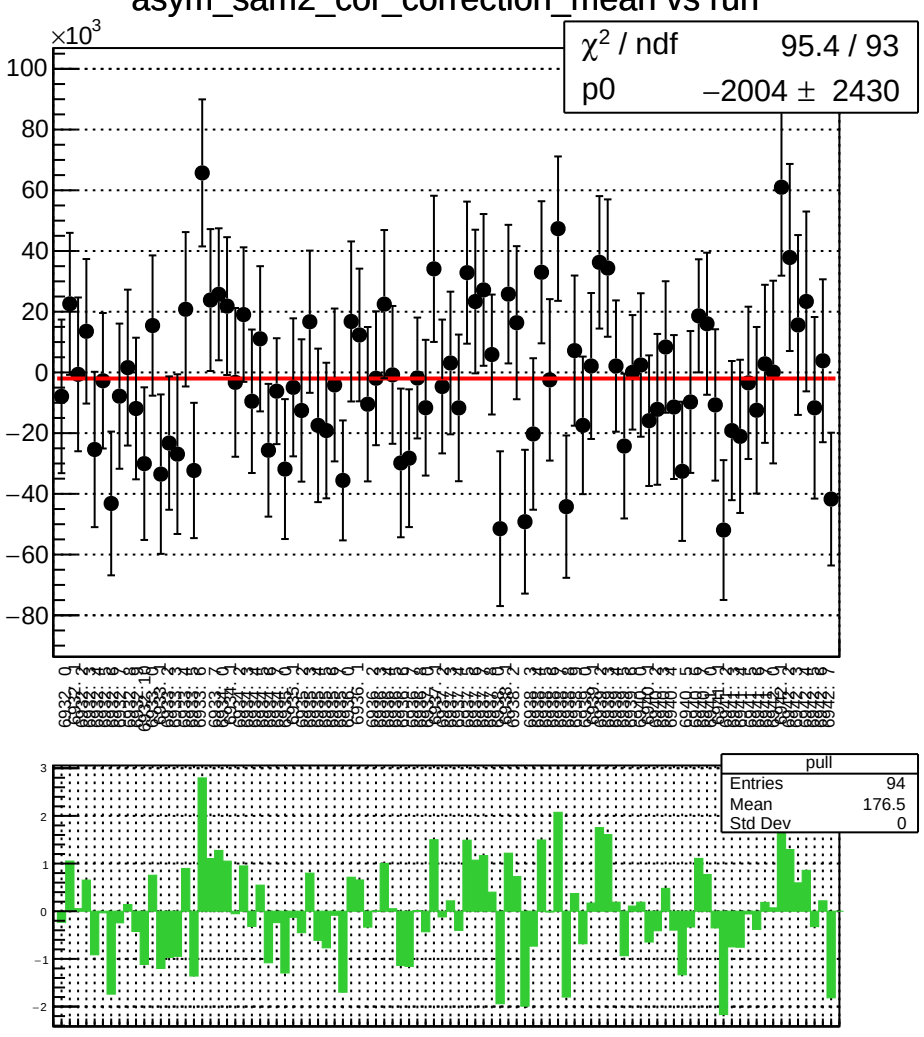

pull1D
Entries 94
Mean 0.00773
Std Dev 1.007

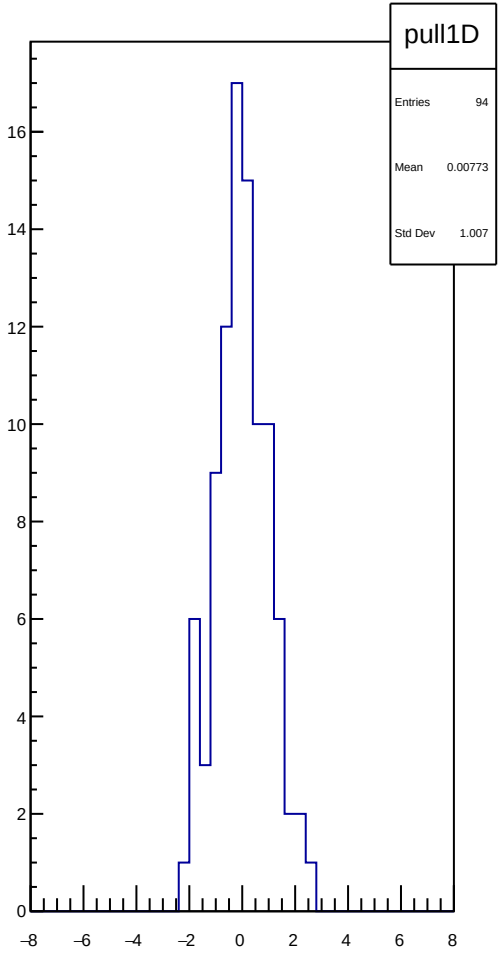

asym_sam2_reg_correction_rms vs run
χ^2 / ndf 1.082e+04 / 93
p0 2275 ± 1.719
3000
2800
2600
2400
2200
2000

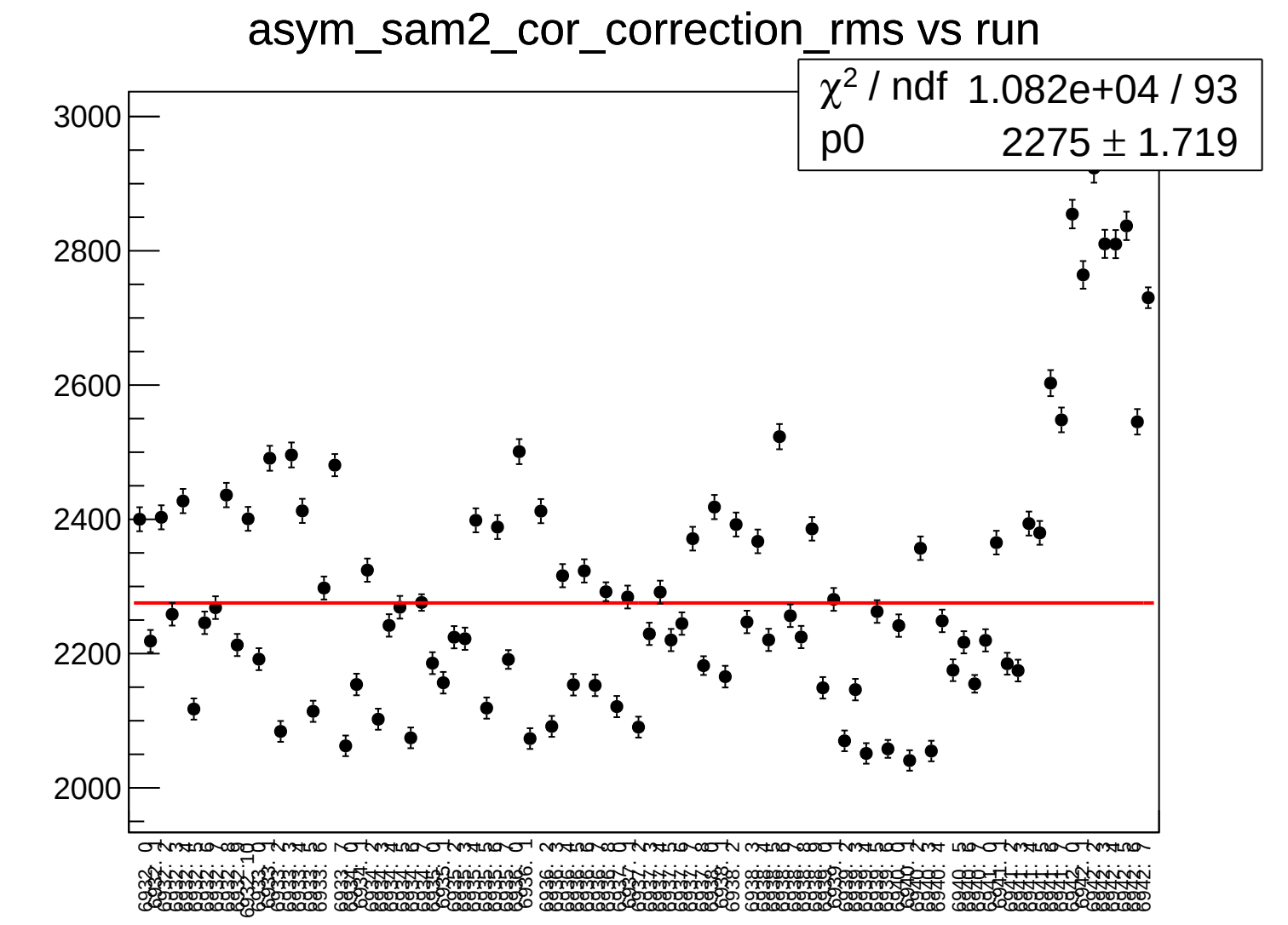

cor_asym_sam2_mean vs run
χ² / ndf 104 / 93
p0 450.2 ± 295.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −5293
Std Dev 0
2
1
0
−1
−2

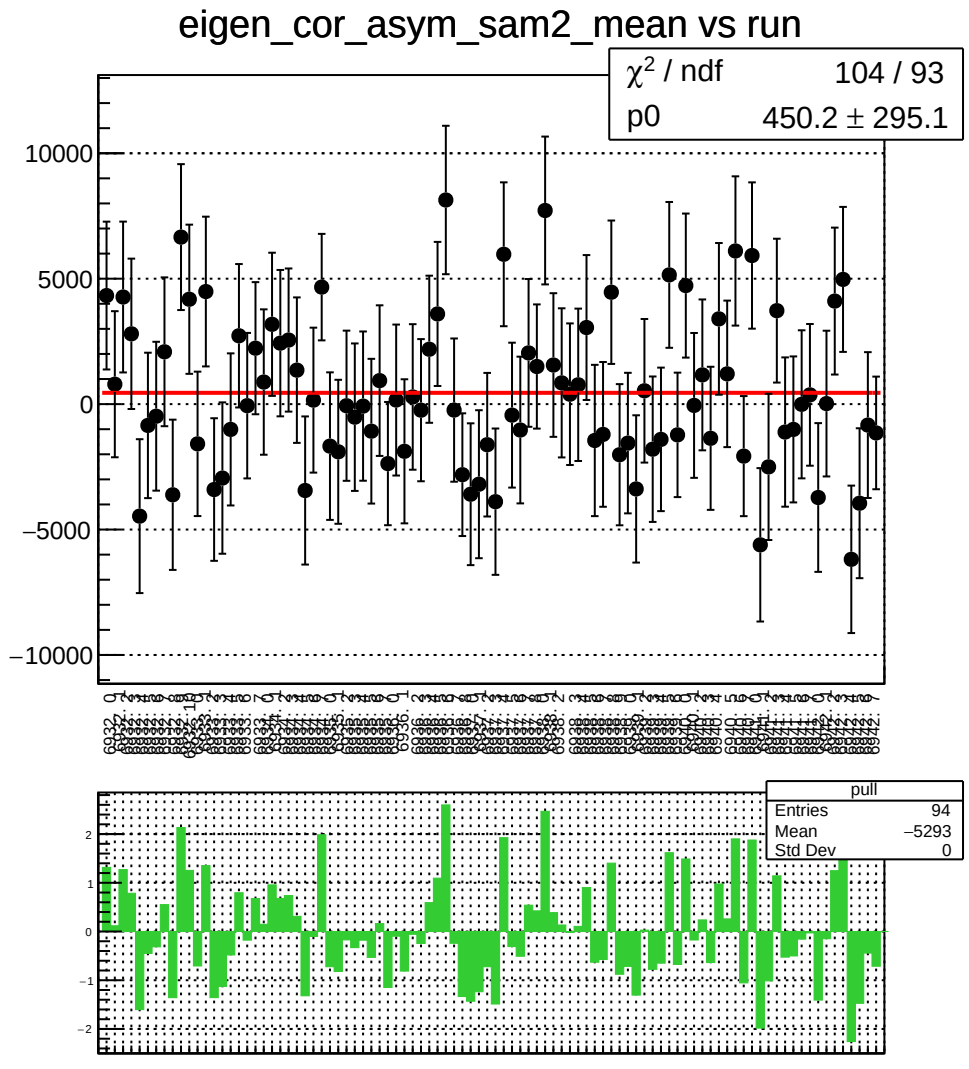

pull1D
Entries 94
Mean 0.000559
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

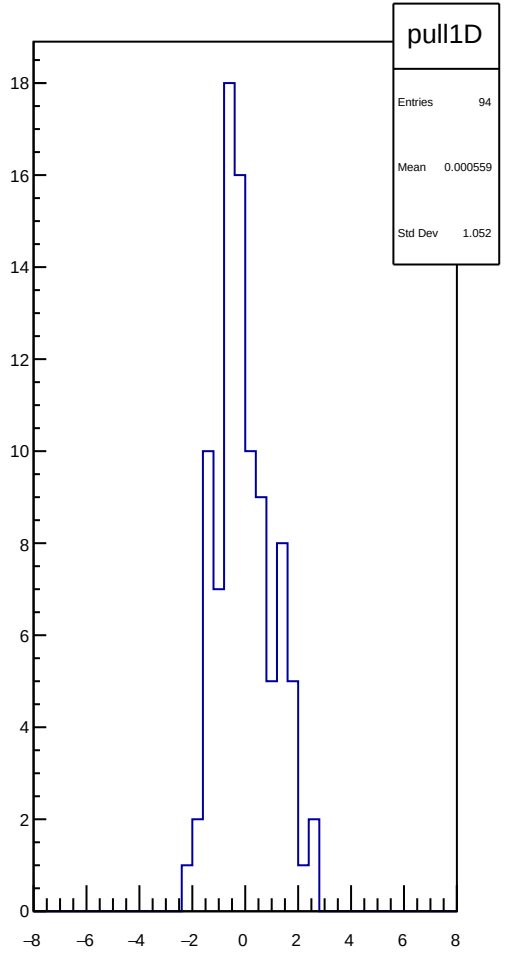

cor_asym_sam2_rms vs run
χ² / ndf 657.7 / 93
p0 277.1 ± 0.2087
295
290
285
280
275
270
265

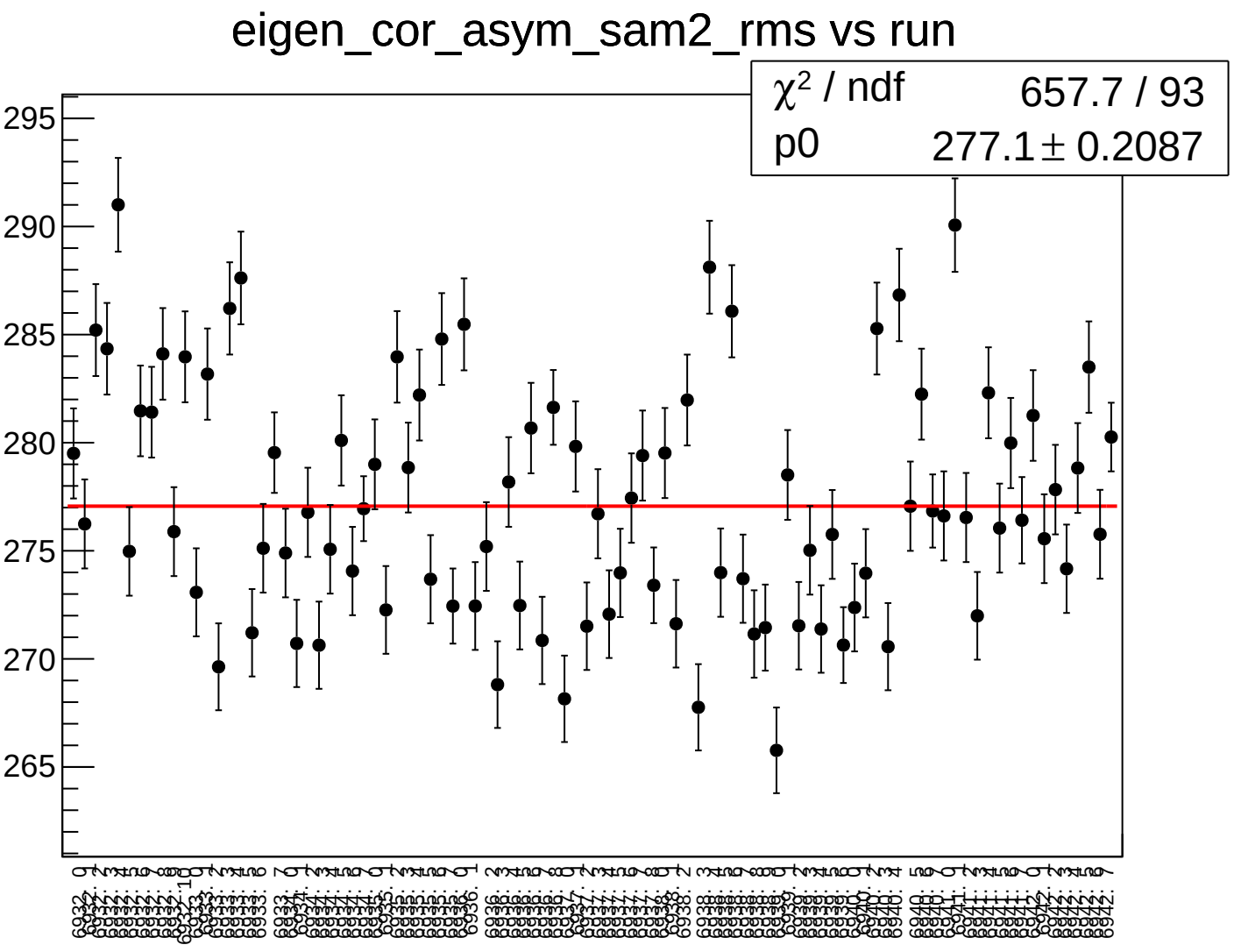

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 95.4 / 93
p0 −2004 ± 2430
pull
Entries 94
Mean 176.5
Std Dev 0

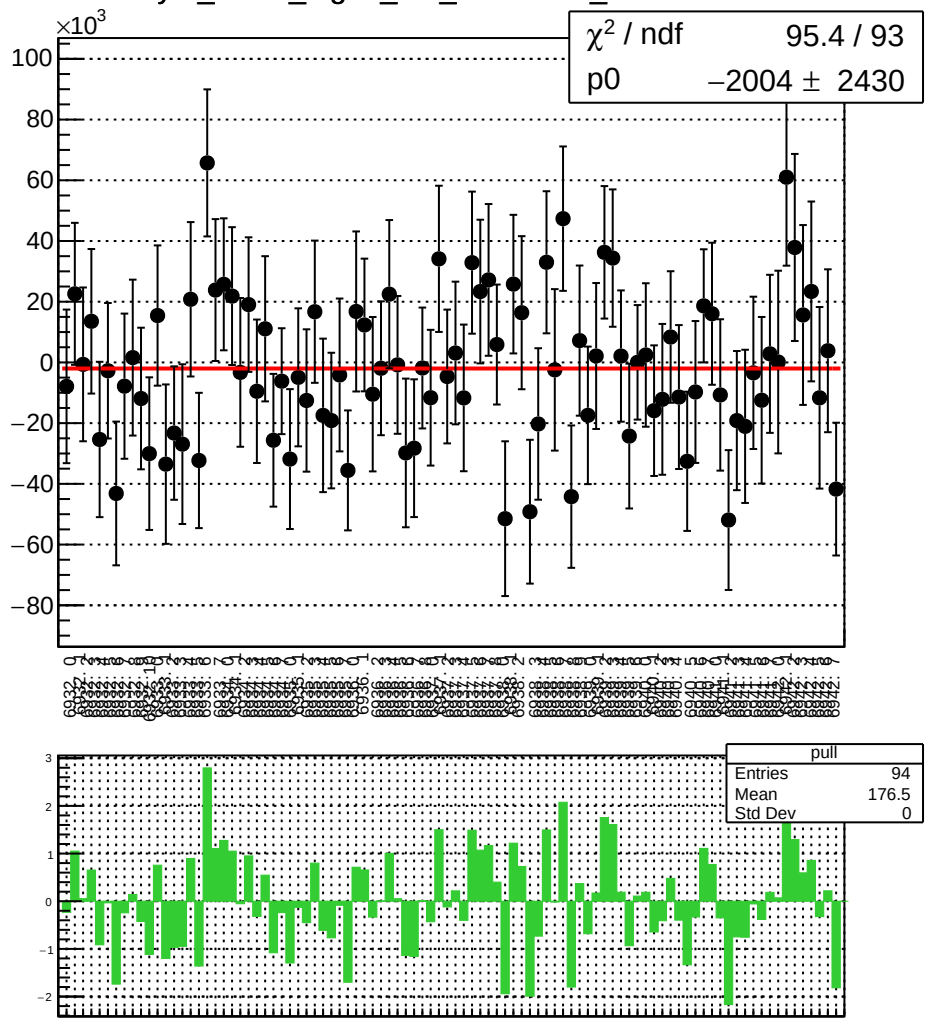

pull1D
Entries 94
Mean 0.00773
Std Dev 1.007

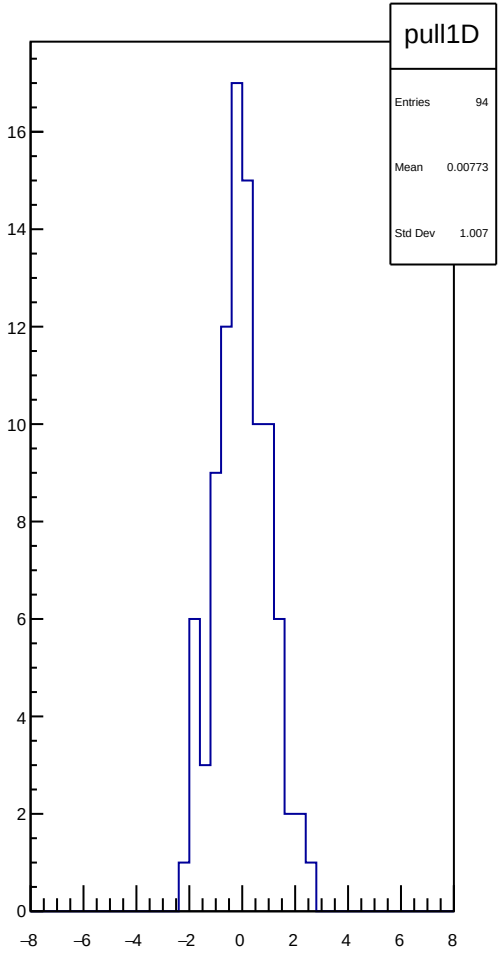

asym_sam2_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 93
p0 2275 ± 1.719
3000
2800
2600
2400
2200
2000

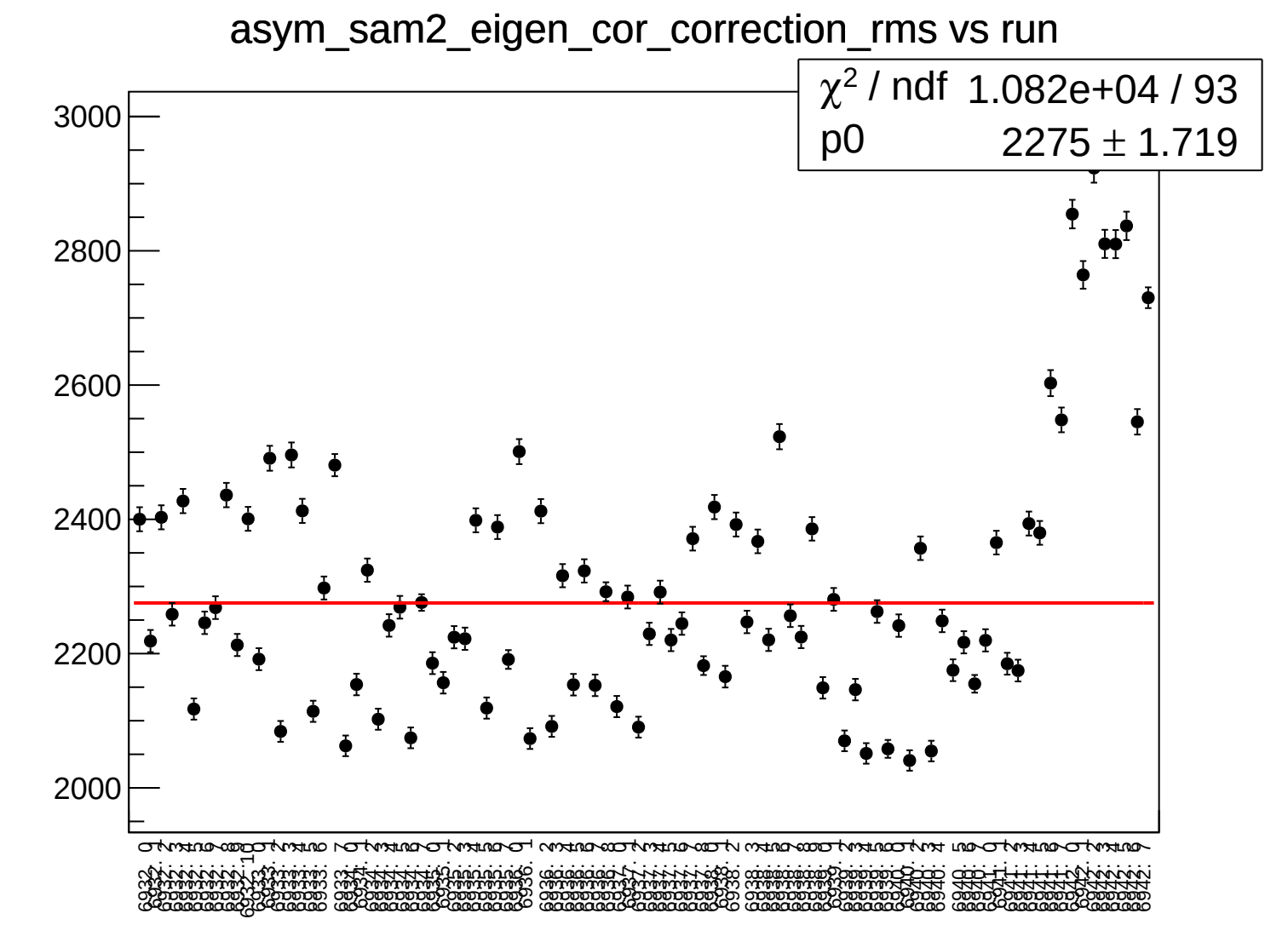

eigen_cor_asym_sam2_mean vs run
χ² / ndf 104 / 93
p0 450.2 ± 295.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −5293
Std Dev 0
2
1
0
−1
−2

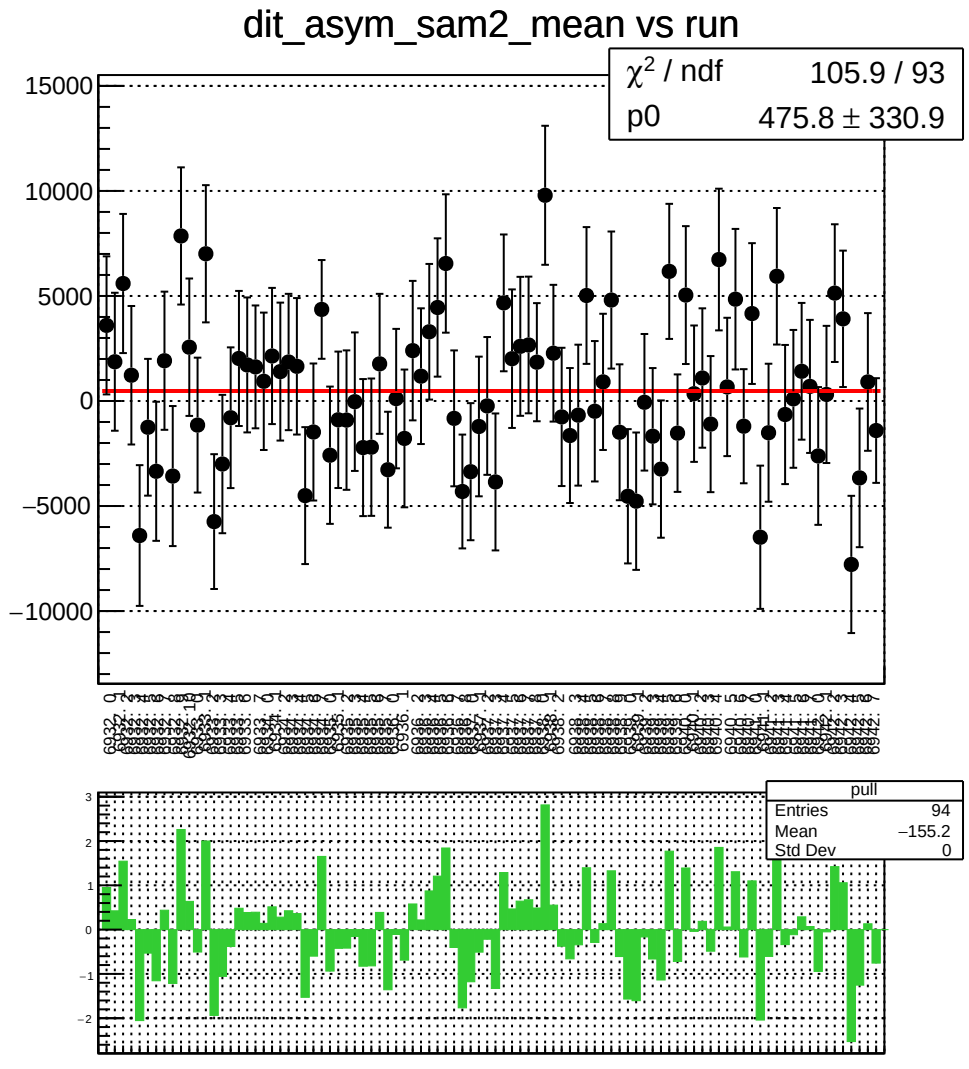

pull1D
Entries 94
Mean 0.000559
Std Dev 1.052
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

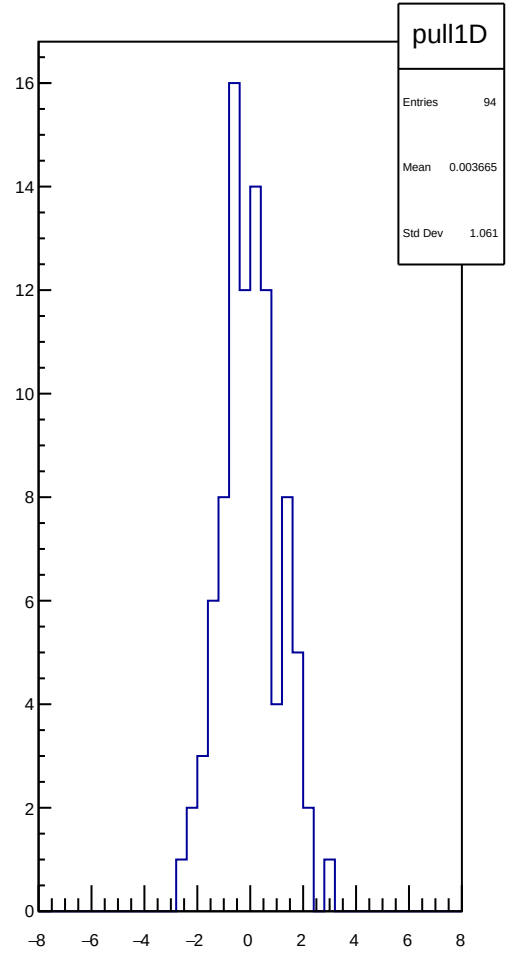

eigen_cor_asym_sam2_rms vs run
χ² / ndf 657.7 / 93
p0 277.1 ± 0.2087
295
290
285
280
275
270
265

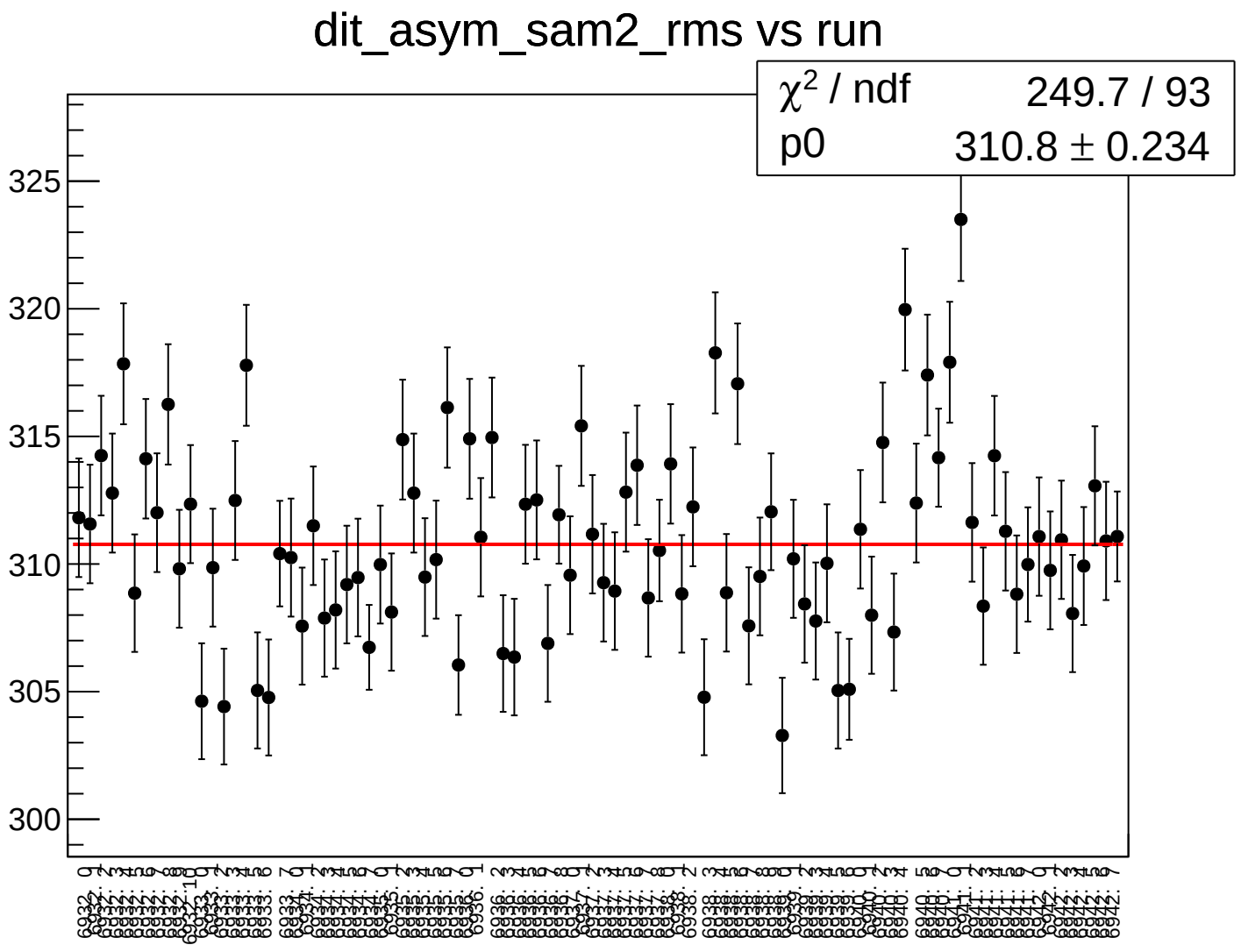

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.4 / 93
p0 −2004 ± 2430
pull
Entries 94
Mean 176.5
Std Dev 0

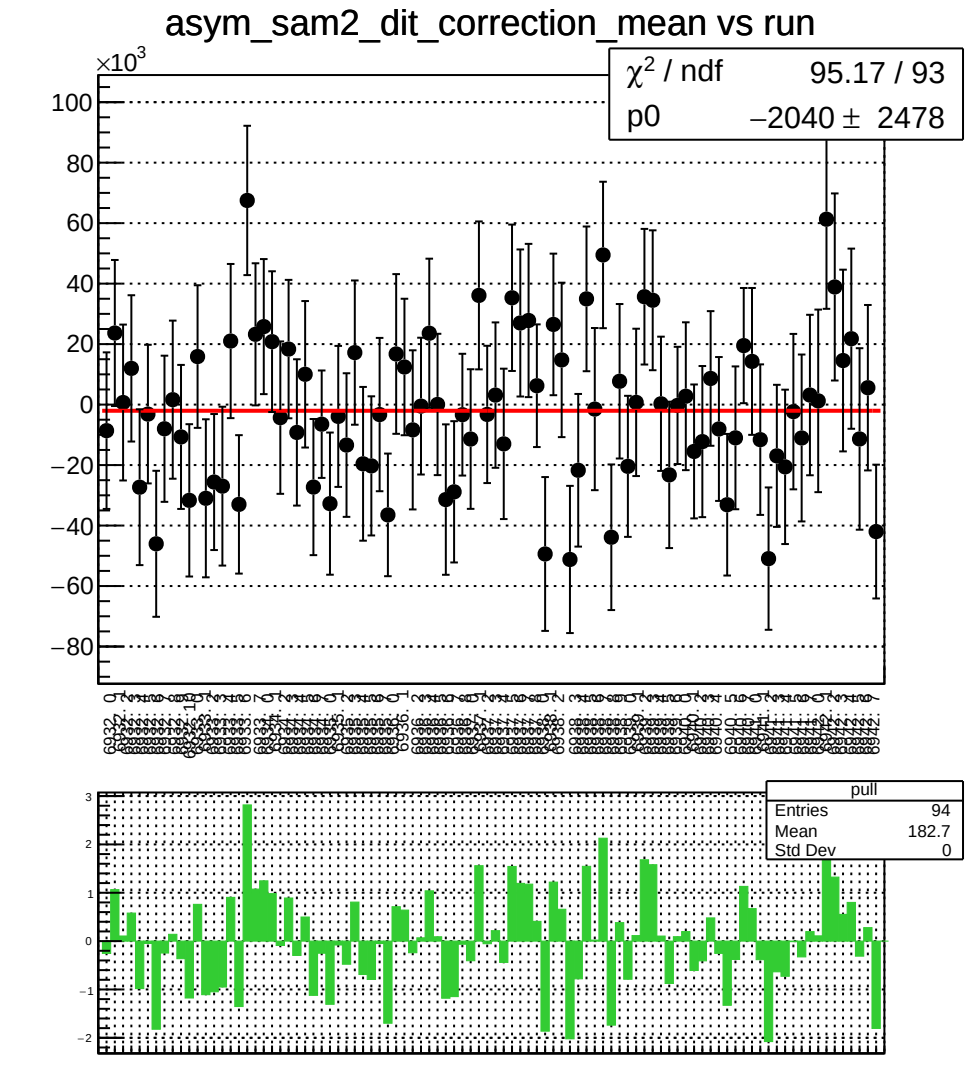

pull1D
Entries 94
Mean 0.00773
Std Dev 1.007

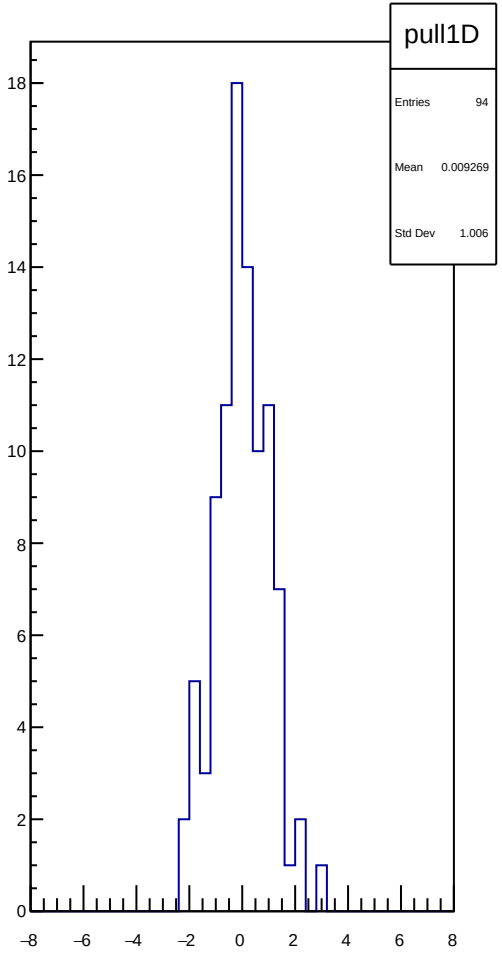

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 93
p0 2275 ± 1.719
3000
2800
2600
2400
2200
2000

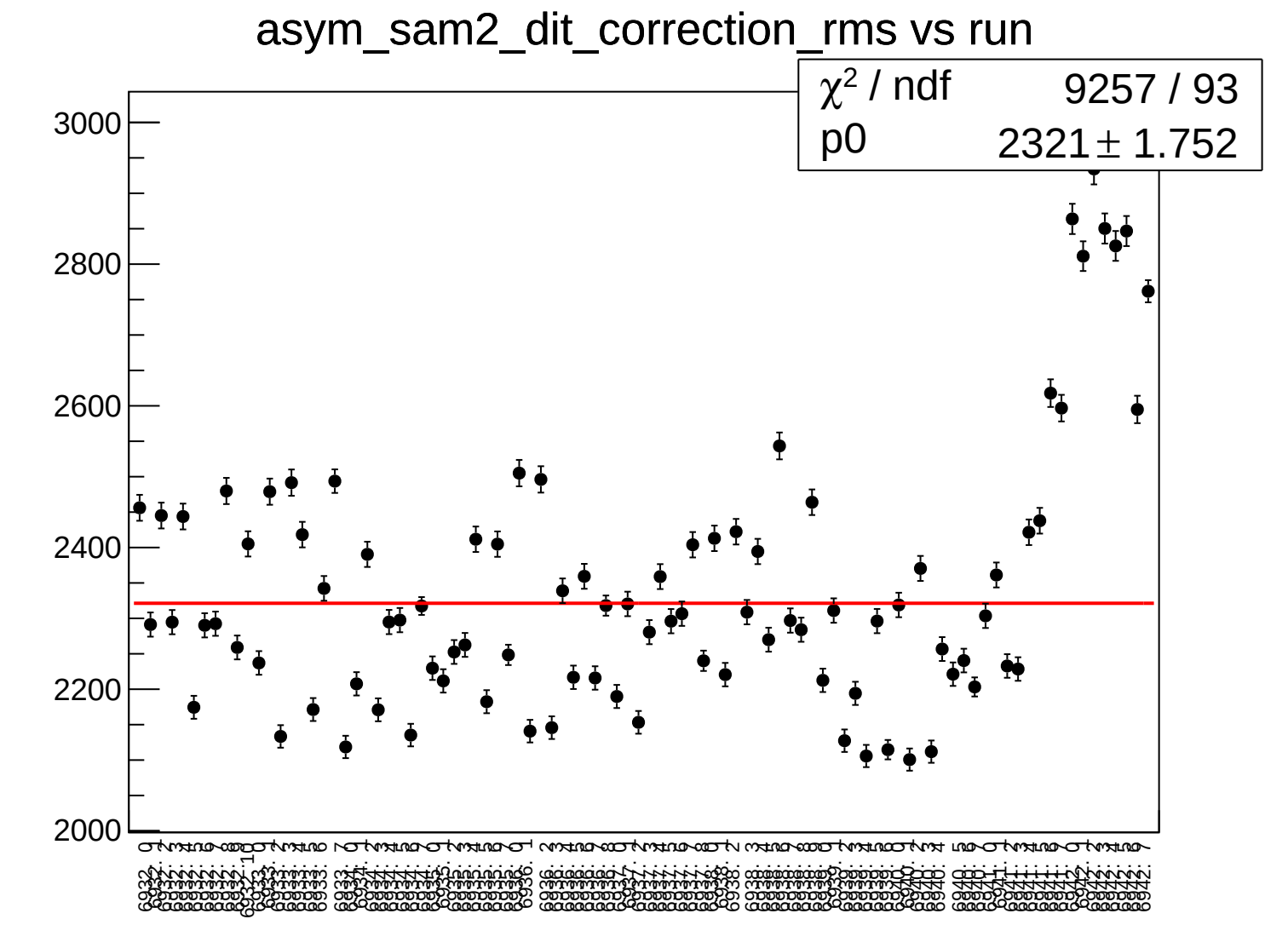

dit_asym_sam2_mean vs run
χ² / ndf 105.9 / 93
p0 475.8 ± 330.9
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −155.2
Std Dev 0
3
2
1
0
−1
−2

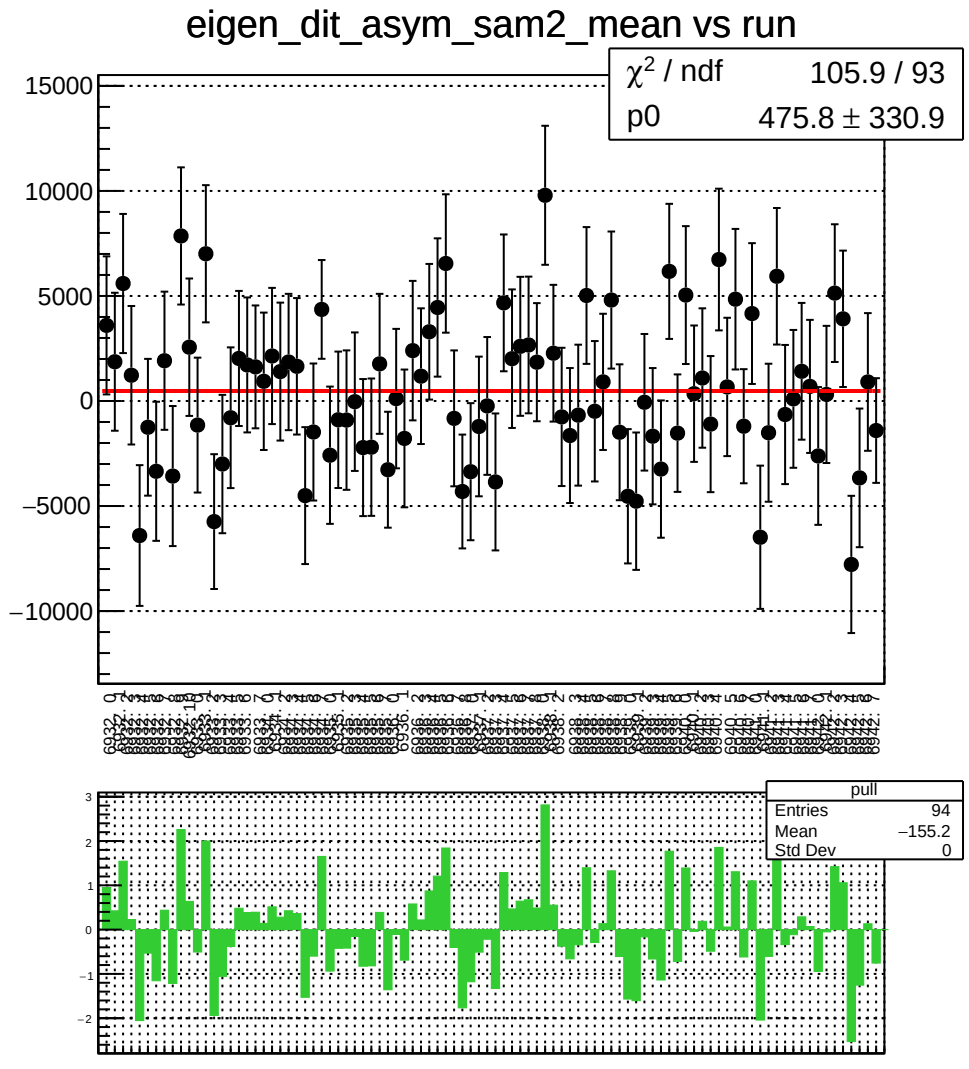

pull1D
Entries 94
Mean 0.003665
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

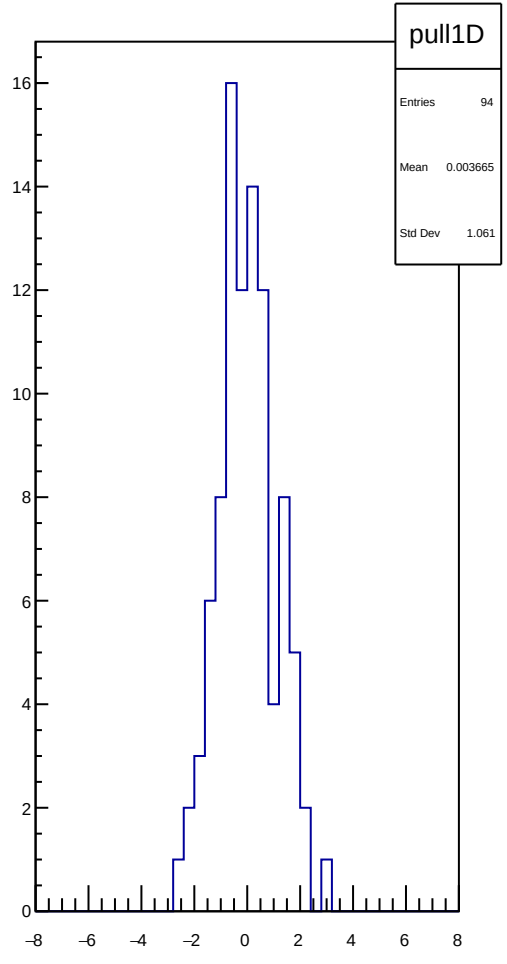

dit_asym_sam2_rms vs run
χ^2 / ndf 249.7 / 93
p0 310.8 ± 0.234
325
320
315
310
305
300

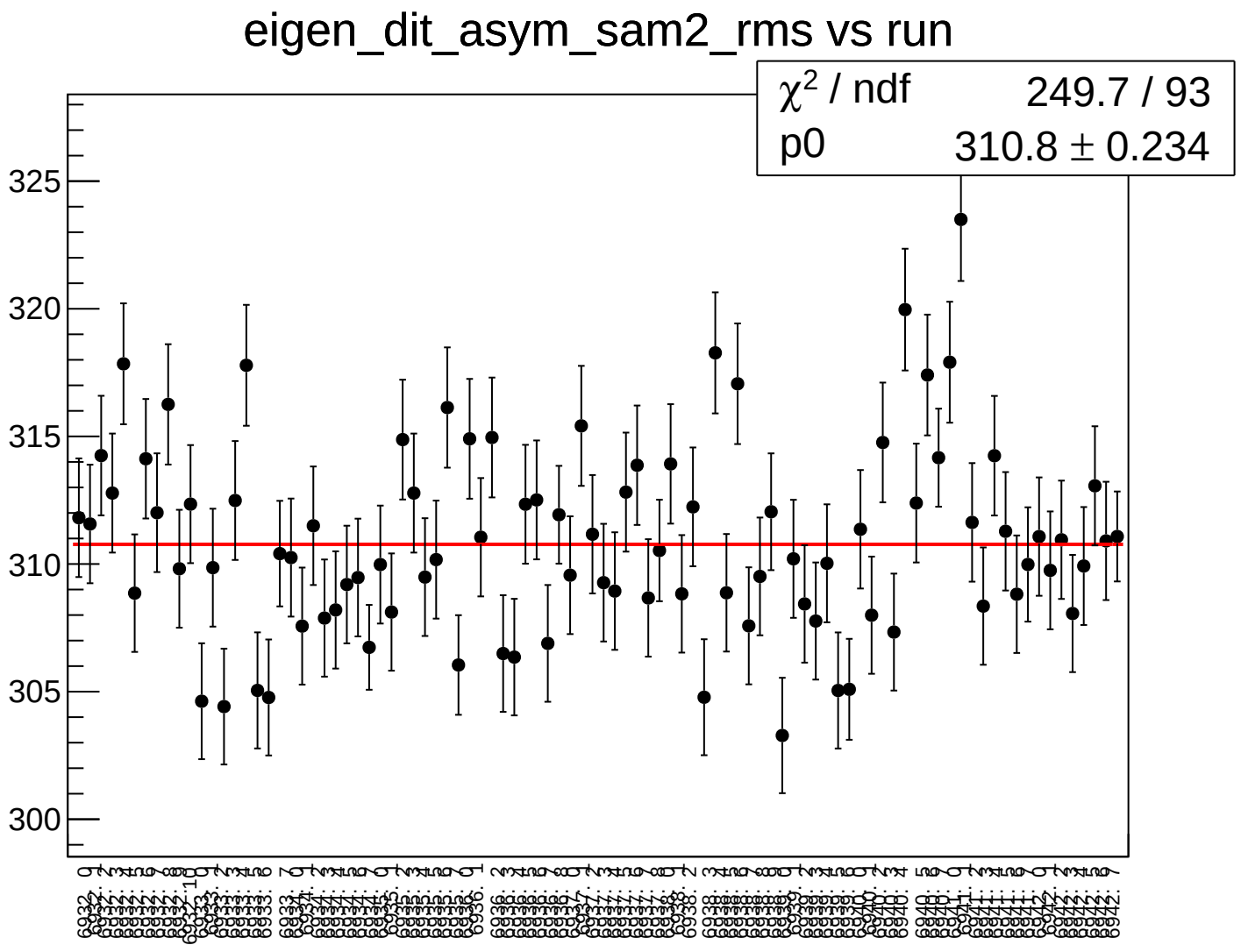

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 95.17 / 93
p0 −2040 ± 2478
pull
Entries 94
Mean 182.7
Std Dev 0

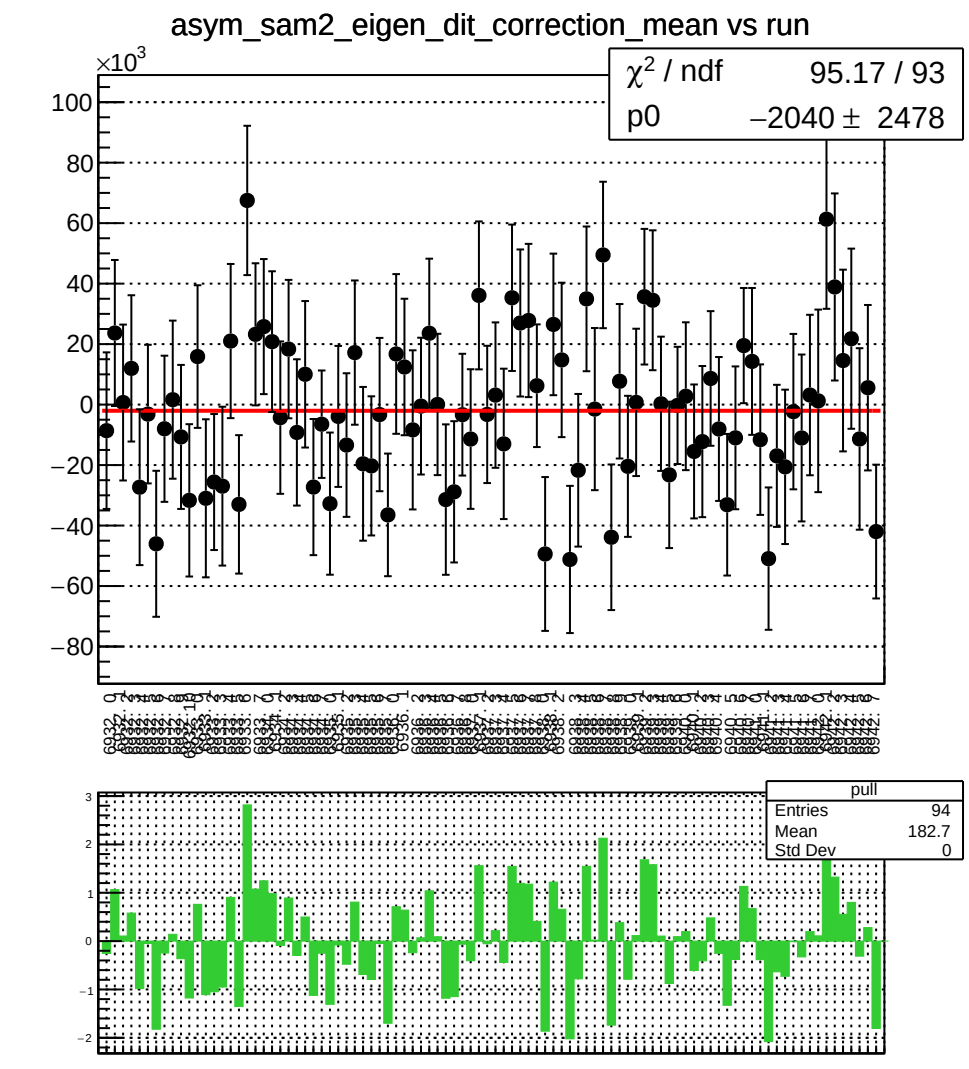

pull1D
Entries 94
Mean 0.009269
Std Dev 1.006

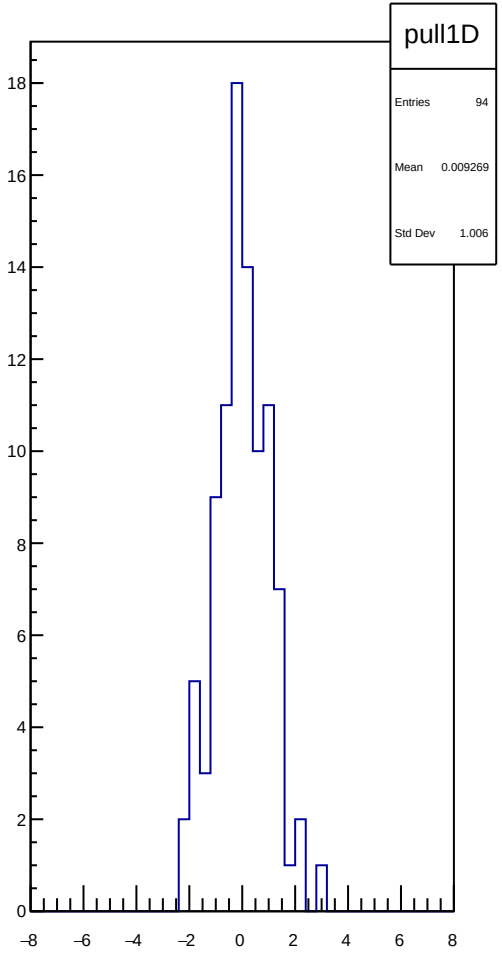

asym_sam2_dit_correction_rms vs run
χ² / ndf 9257 / 93
p0 2321 ± 1.752
3000
2800
2600
2400
2200
2000

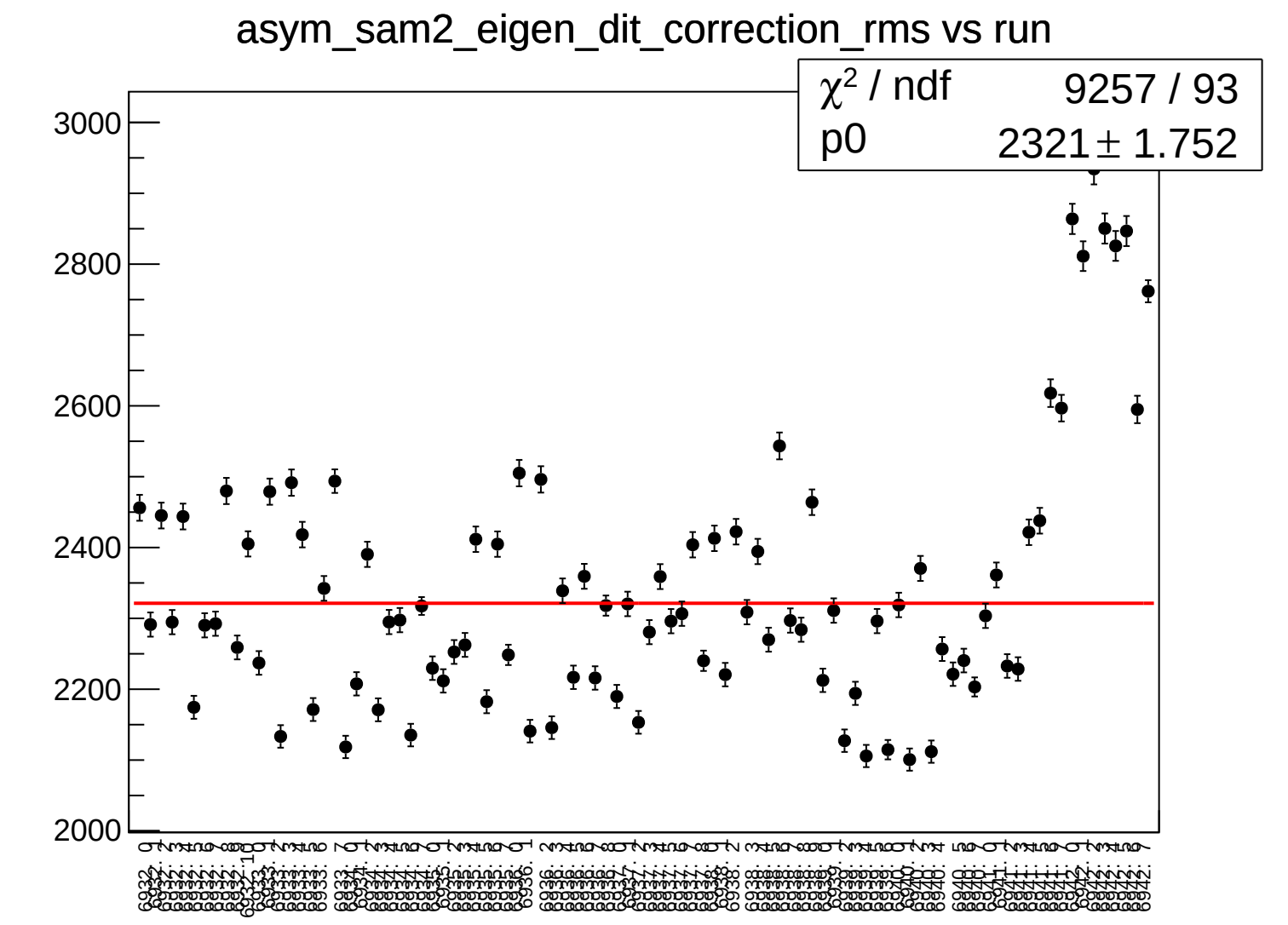

eigen_dit_asym_sam2_mean vs run
χ² / ndf 105.9 / 93
p0 475.8 ± 330.9
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −155.2
Std Dev 0
3
2
1
0
−1
−2

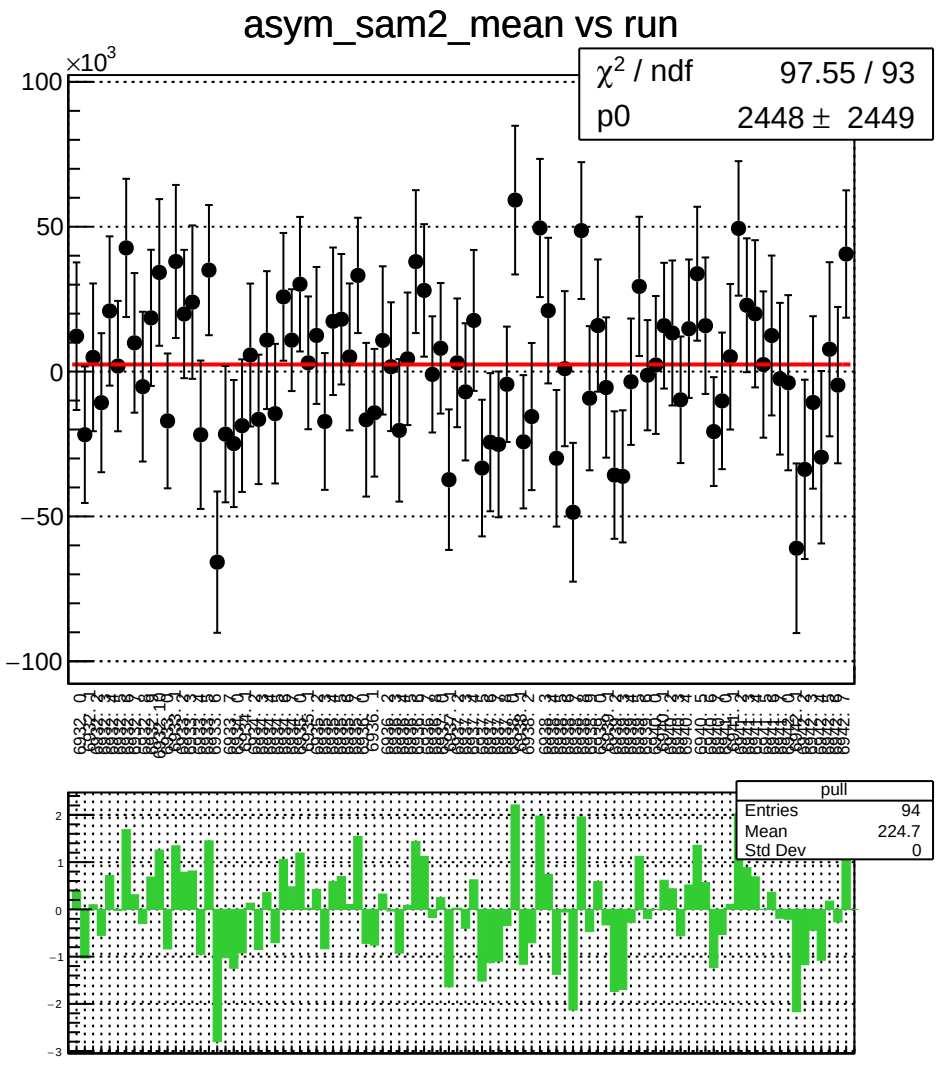

pull1D
Entries 94
Mean 0.003665
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

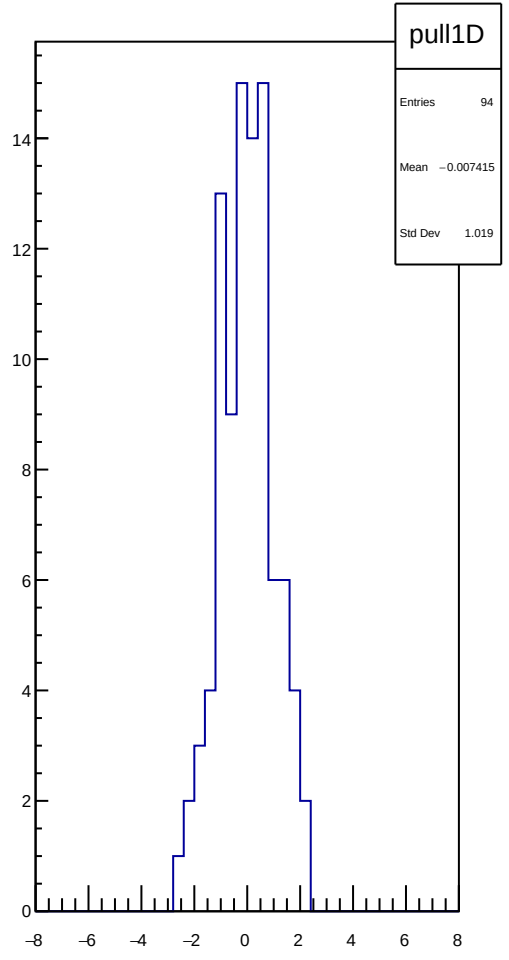

eigen_dit_asym_sam2_rms vs run
χ² / ndf 249.7 / 93
p0 310.8 ± 0.234
325
320
315
310
305
300

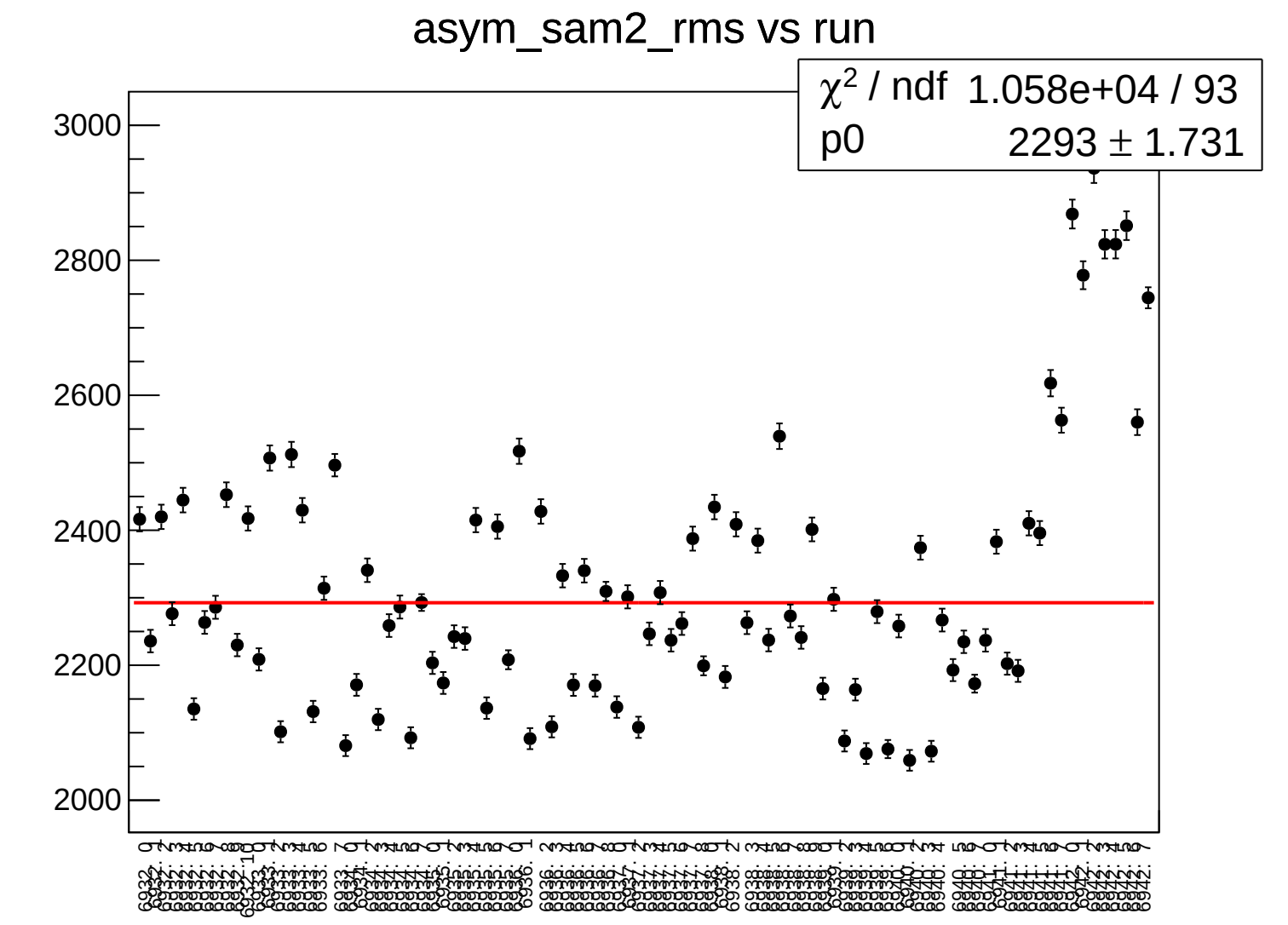

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.17 / 93
p0 −2040 ± 2478
pull
Entries 94
Mean 182.7
Std Dev 0

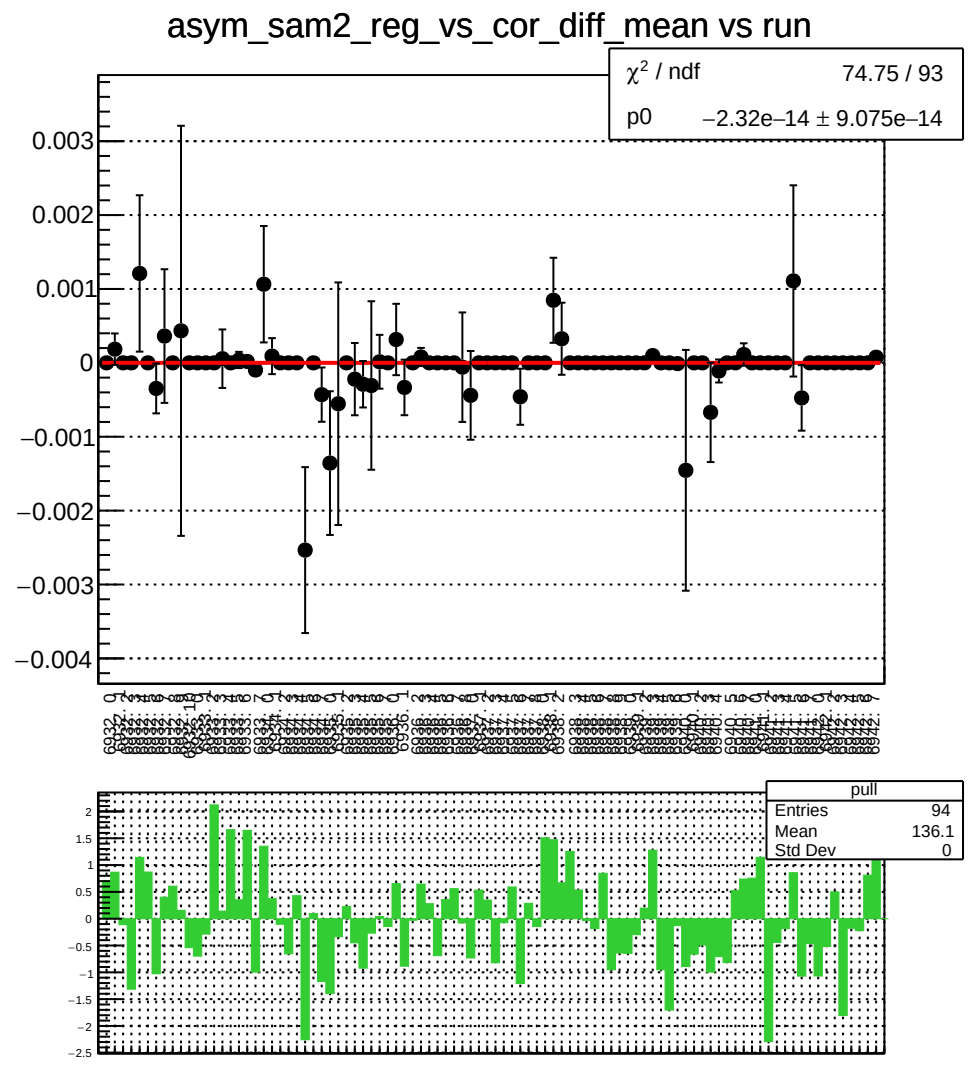

pull1D
Entries 94
Mean 0.009269
Std Dev 1.006

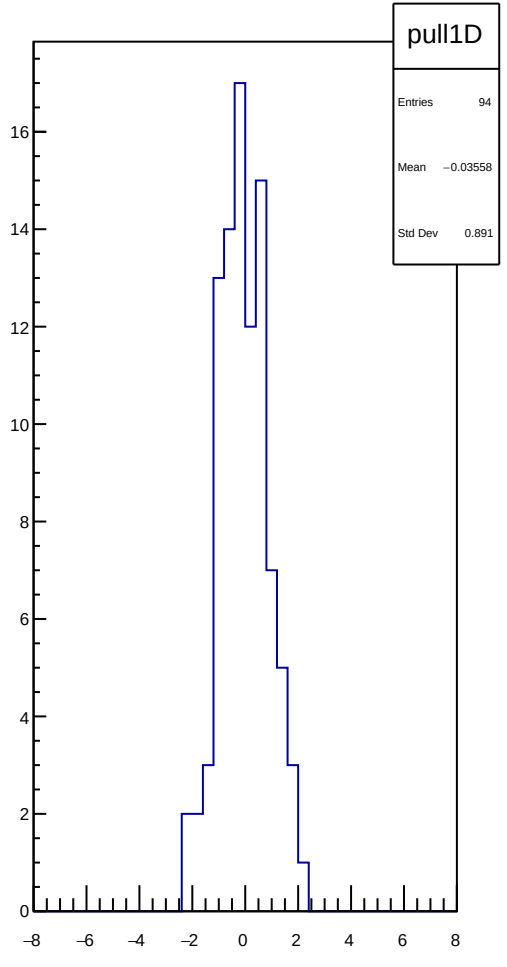

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9257 / 93
p0 2321 ± 1.752
3000
2800
2600
2400
2200
2000

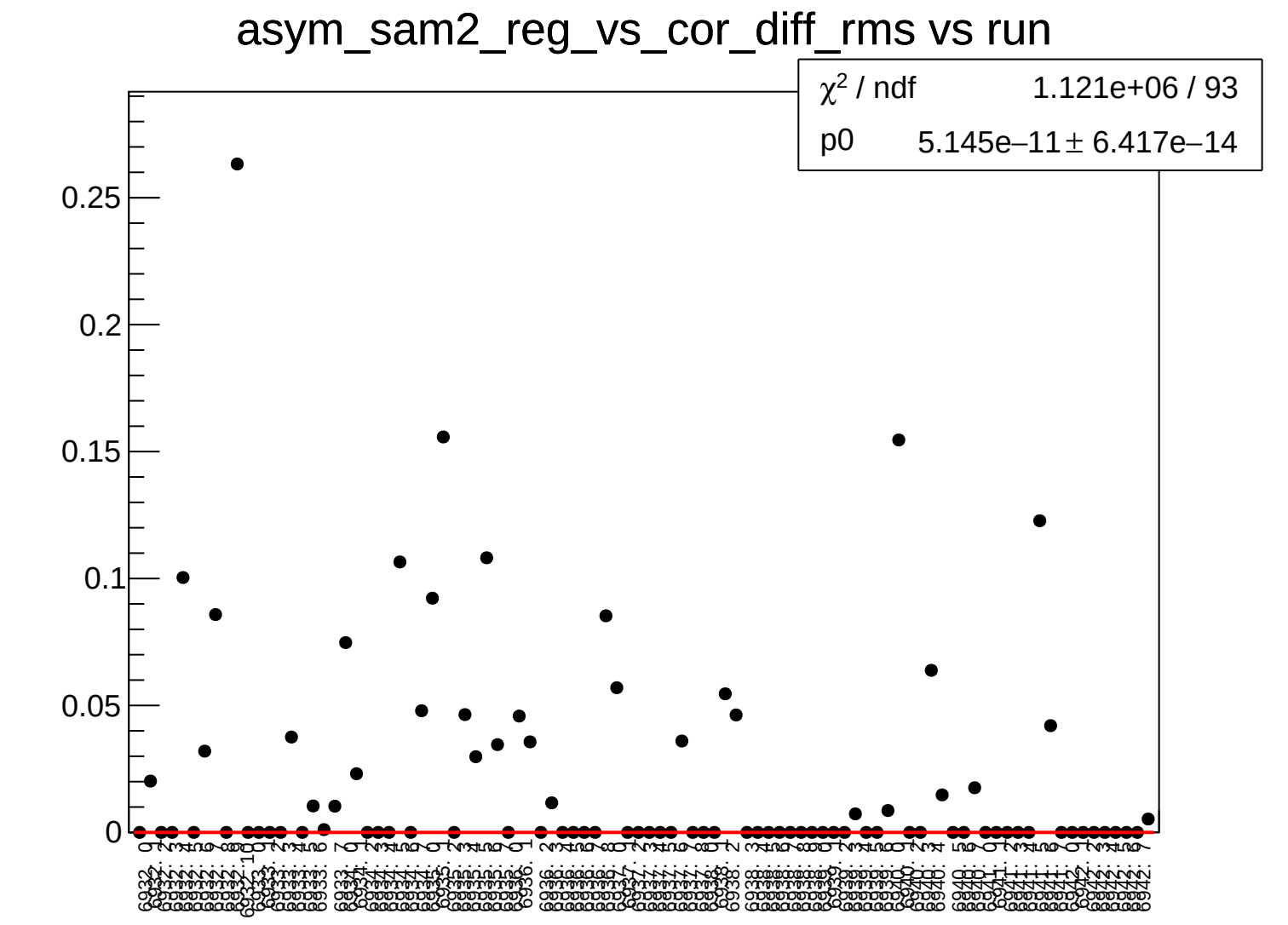

asym_sam2_mean vs run
χ^2 / ndf 97.55 / 93
p0 2448 ± 2449
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean 224.7
Std Dev 0
2
1
0
−1
−2
−3

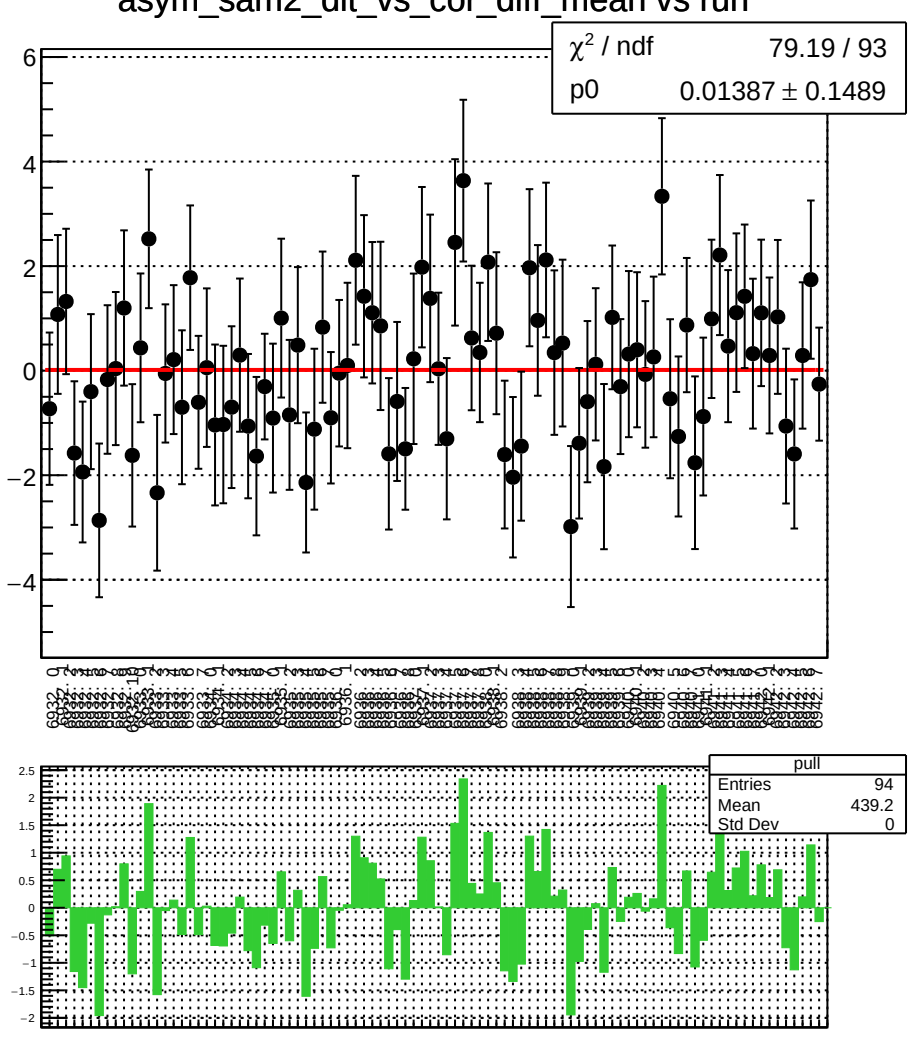

pull1D
Entries 94
Mean −0.007415
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

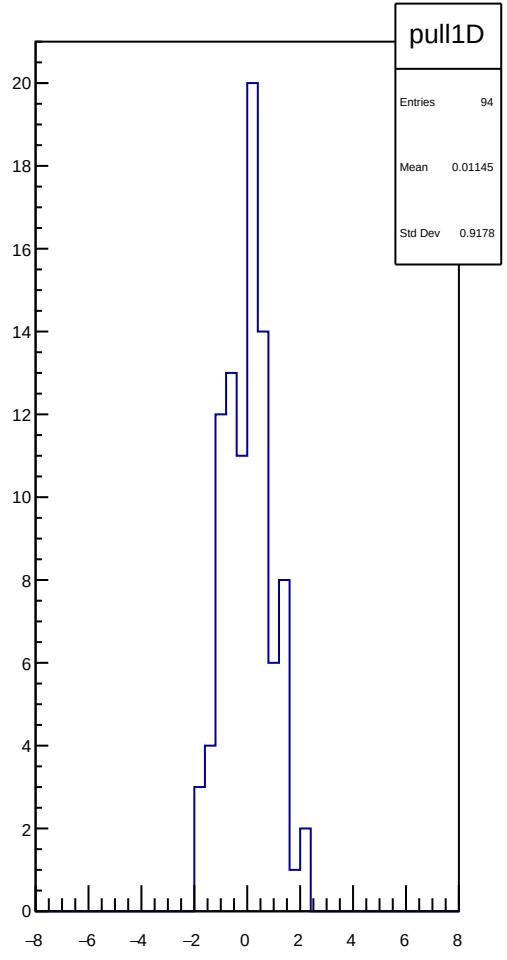

asym_sam2_rms vs run
χ² / ndf 1.058e+04 / 93
p0 2293 ± 1.731
3000
2800
2600
2400
2200
2000

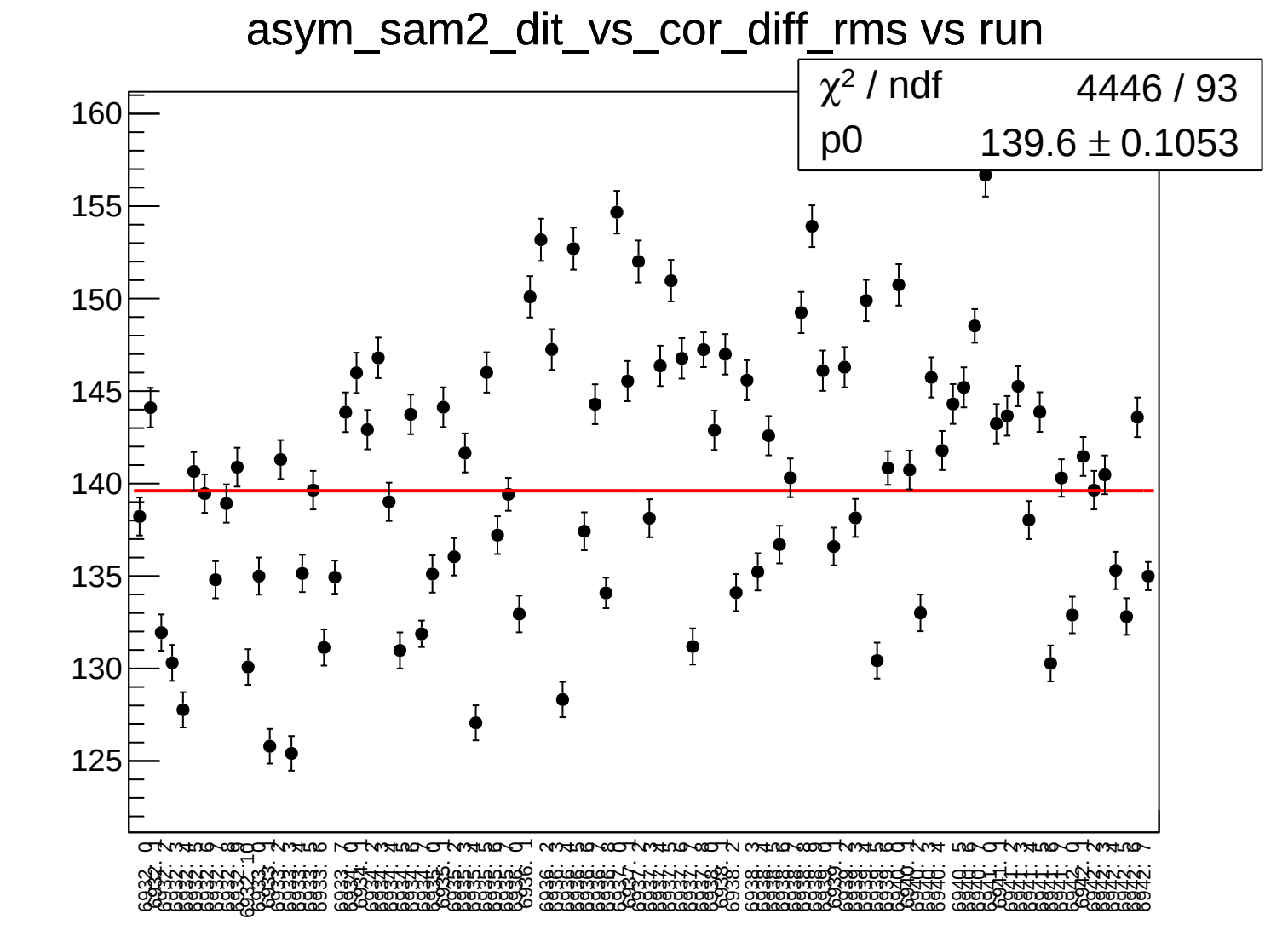

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 74.75 / 93
p0 −2.32e−14 ± 9.075e−14
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 94
Mean 136.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

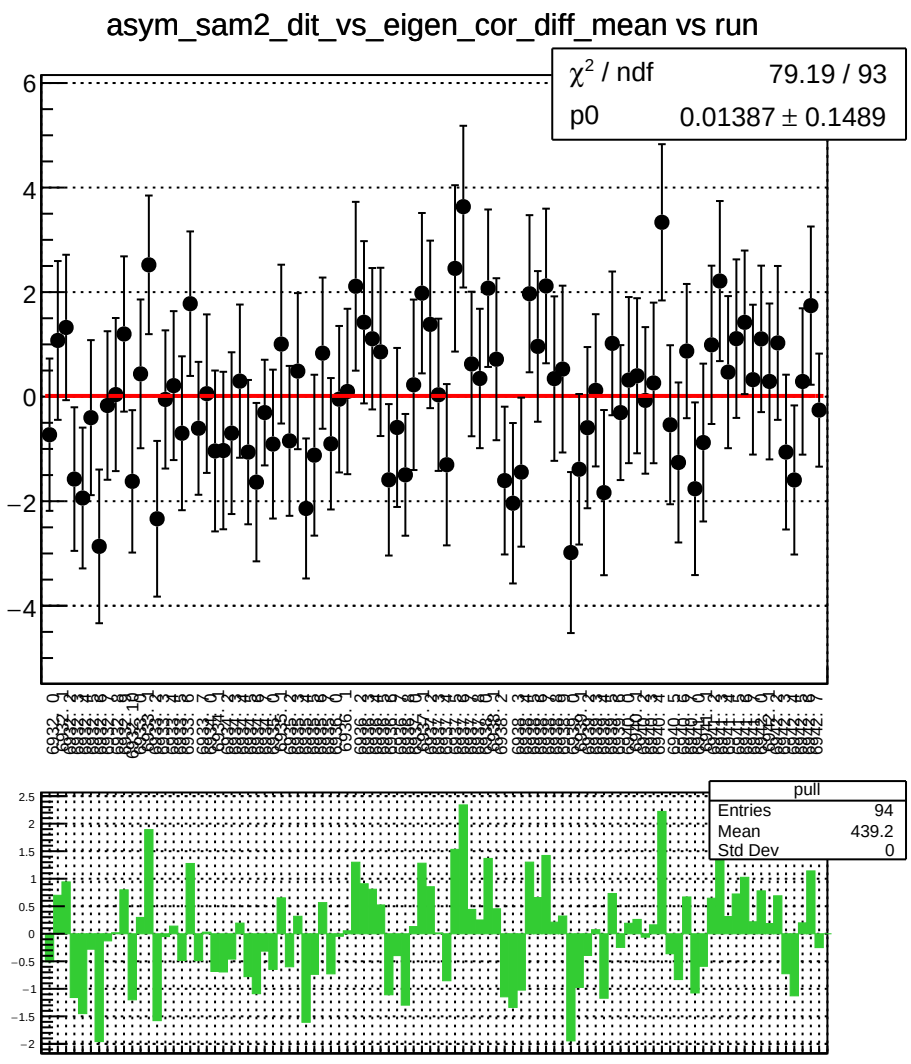

pull1D
Entries 94
Mean −0.03558
Std Dev 0.891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

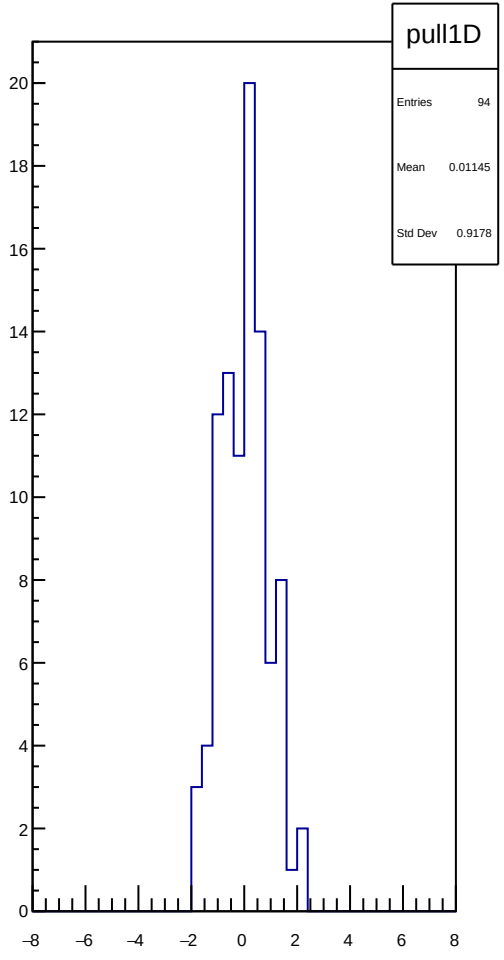

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.121e+06 / 93
p0 5.145e−11 ± 6.417e−14
0.25
0.2
0.15
0.1
0.05
0

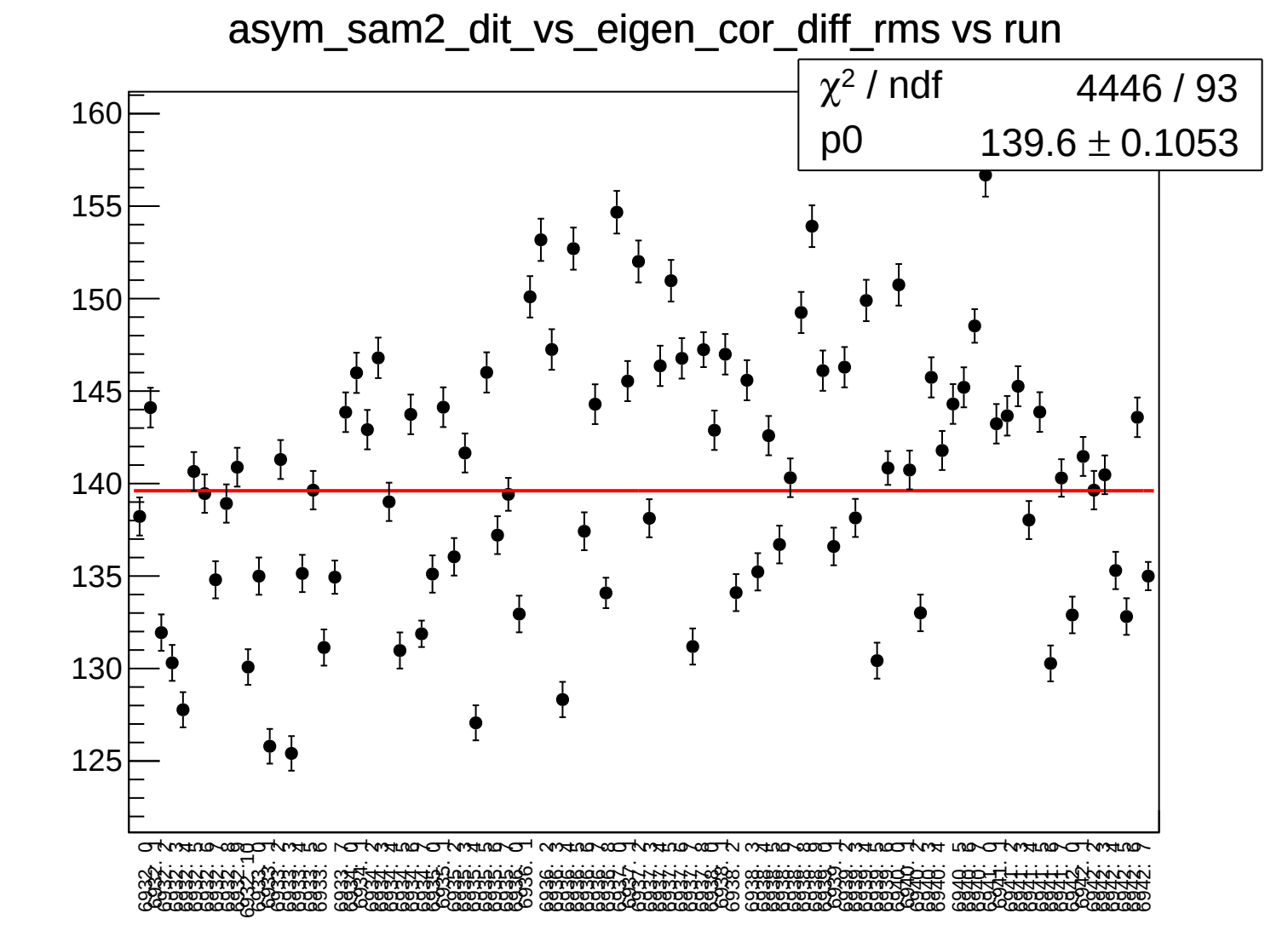

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 79.19 / 93
p0 0.01387 ± 0.1489
pull
Entries 94
Mean 439.2
Std Dev 0

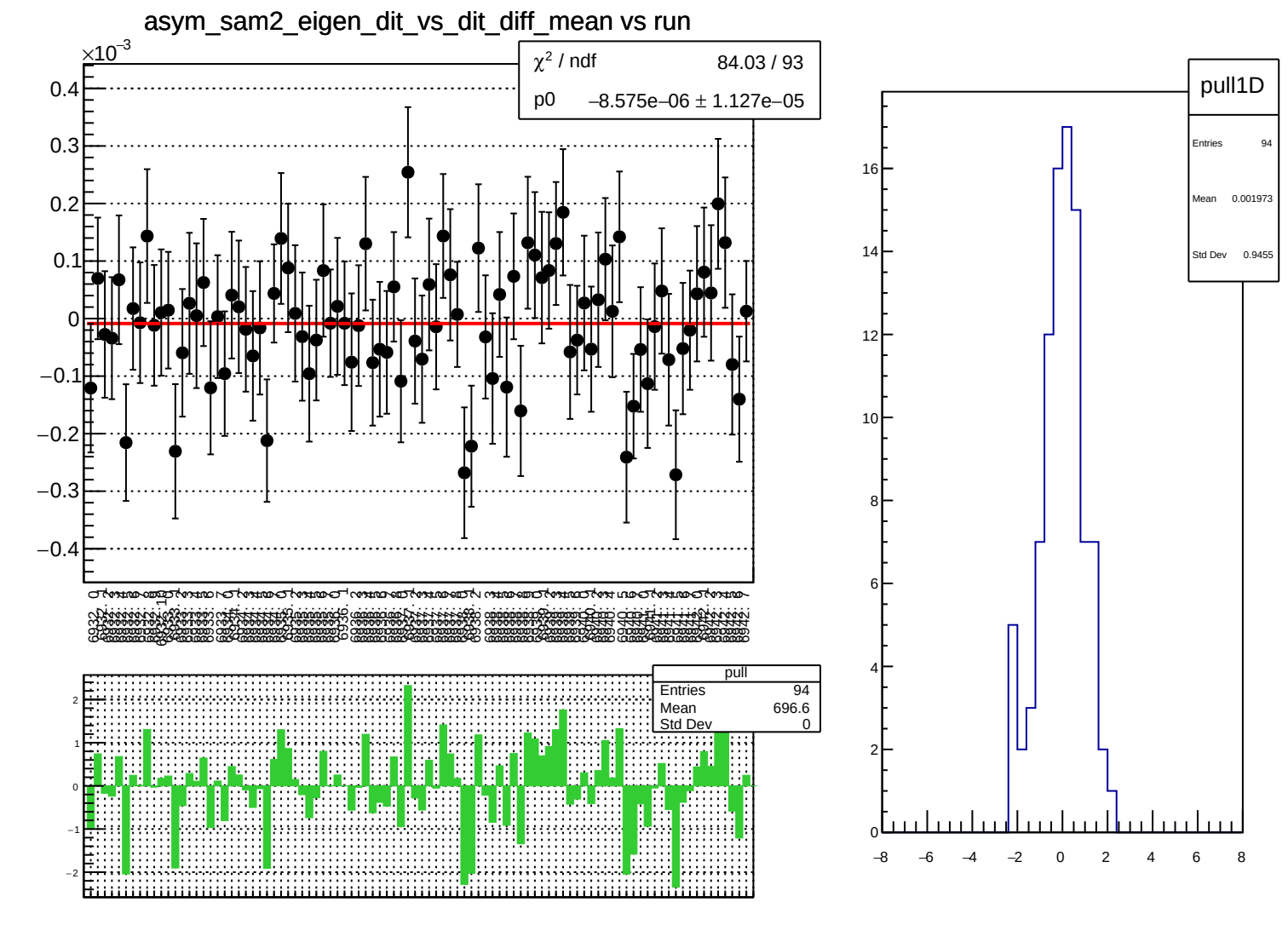

pull1D
Entries 94
Mean 0.01145
Std Dev 0.9178

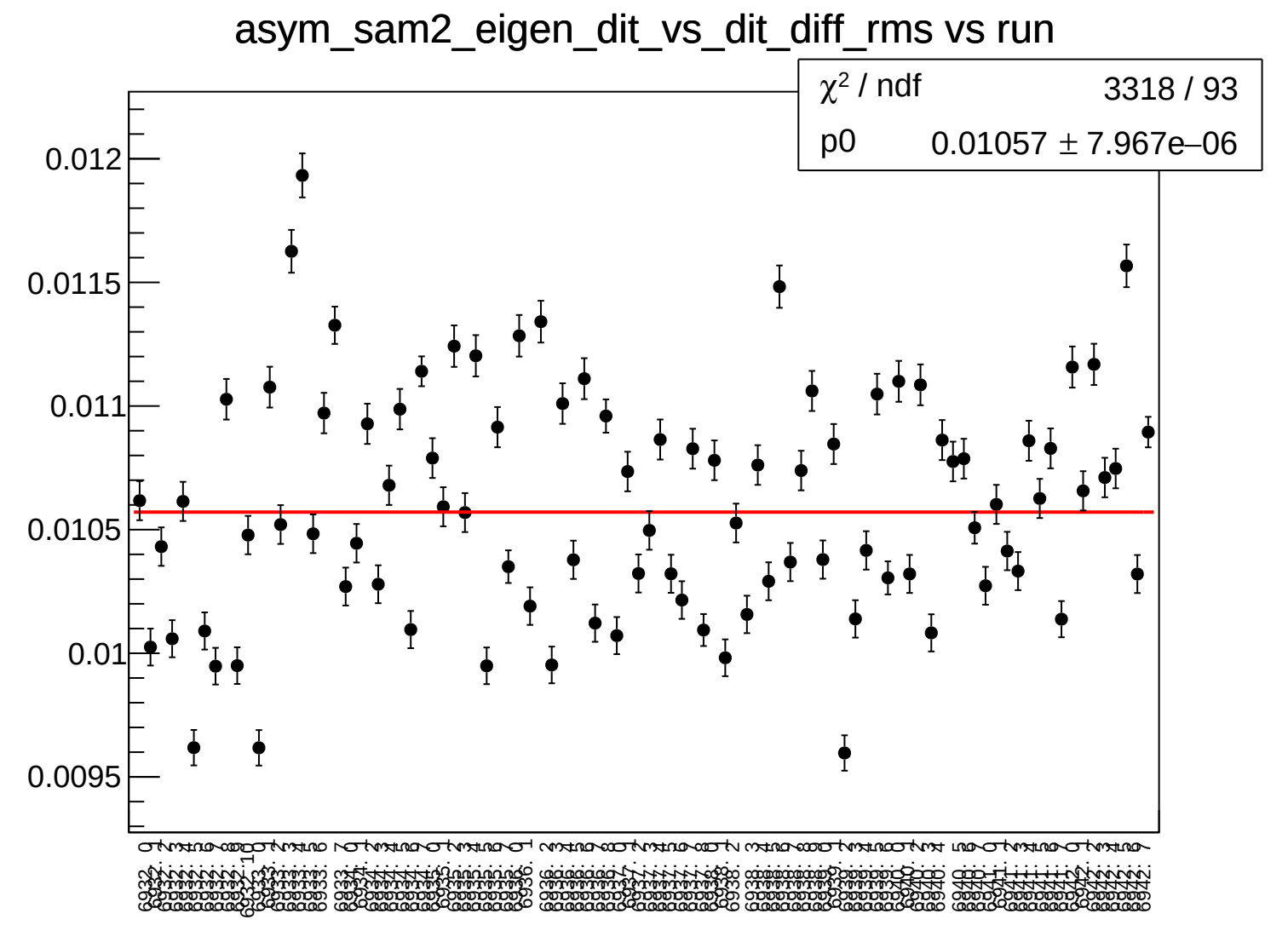

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 4446 / 93
p0 139.6 ± 0.1053
160
155
150
145
140
135
130
125

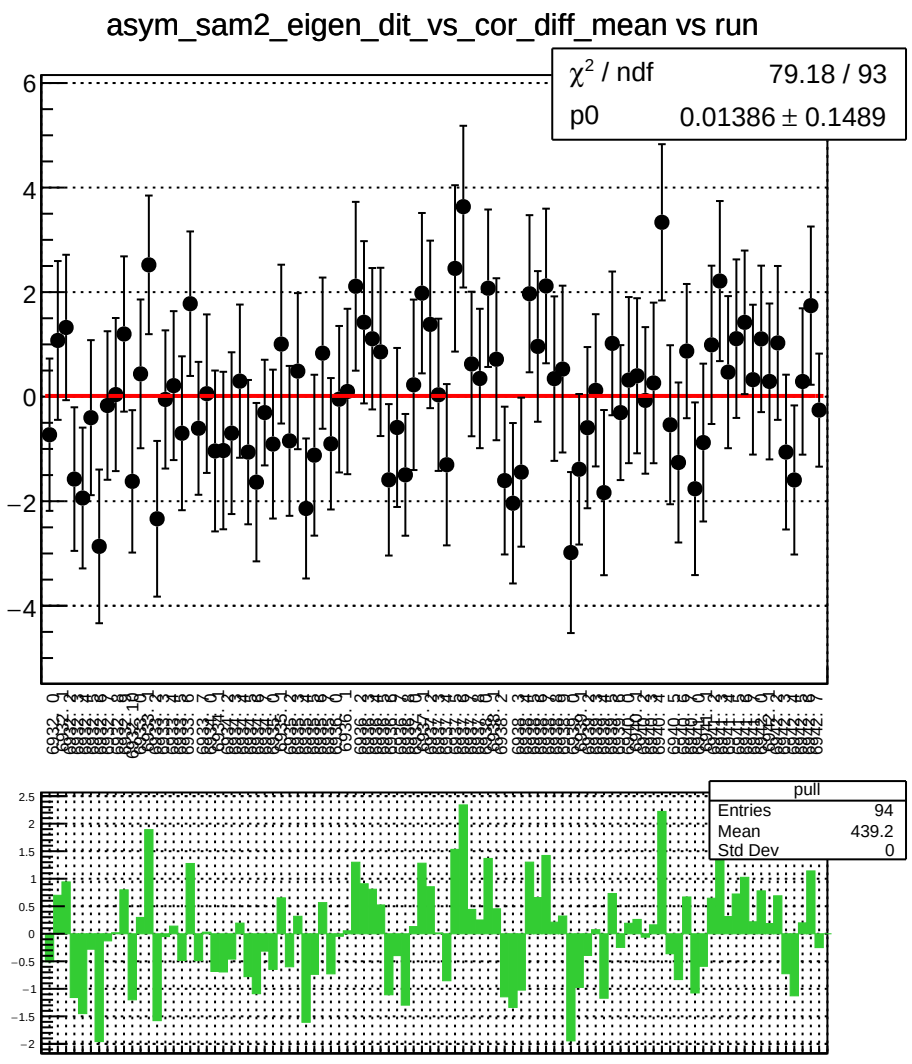

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.19 / 93
p0 0.01387 ± 0.1489
pull
Entries 94
Mean 439.2
Std Dev 0

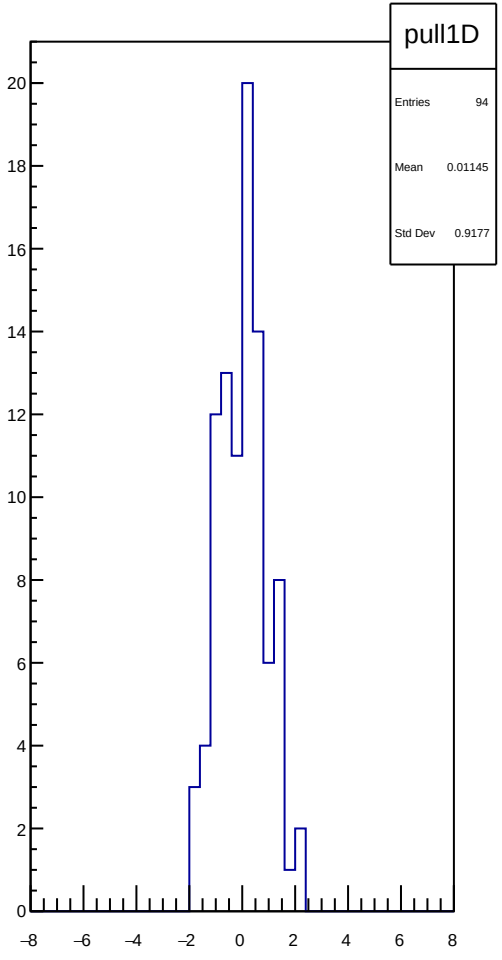

pull1D
Entries 94
Mean 0.01145
Std Dev 0.9178

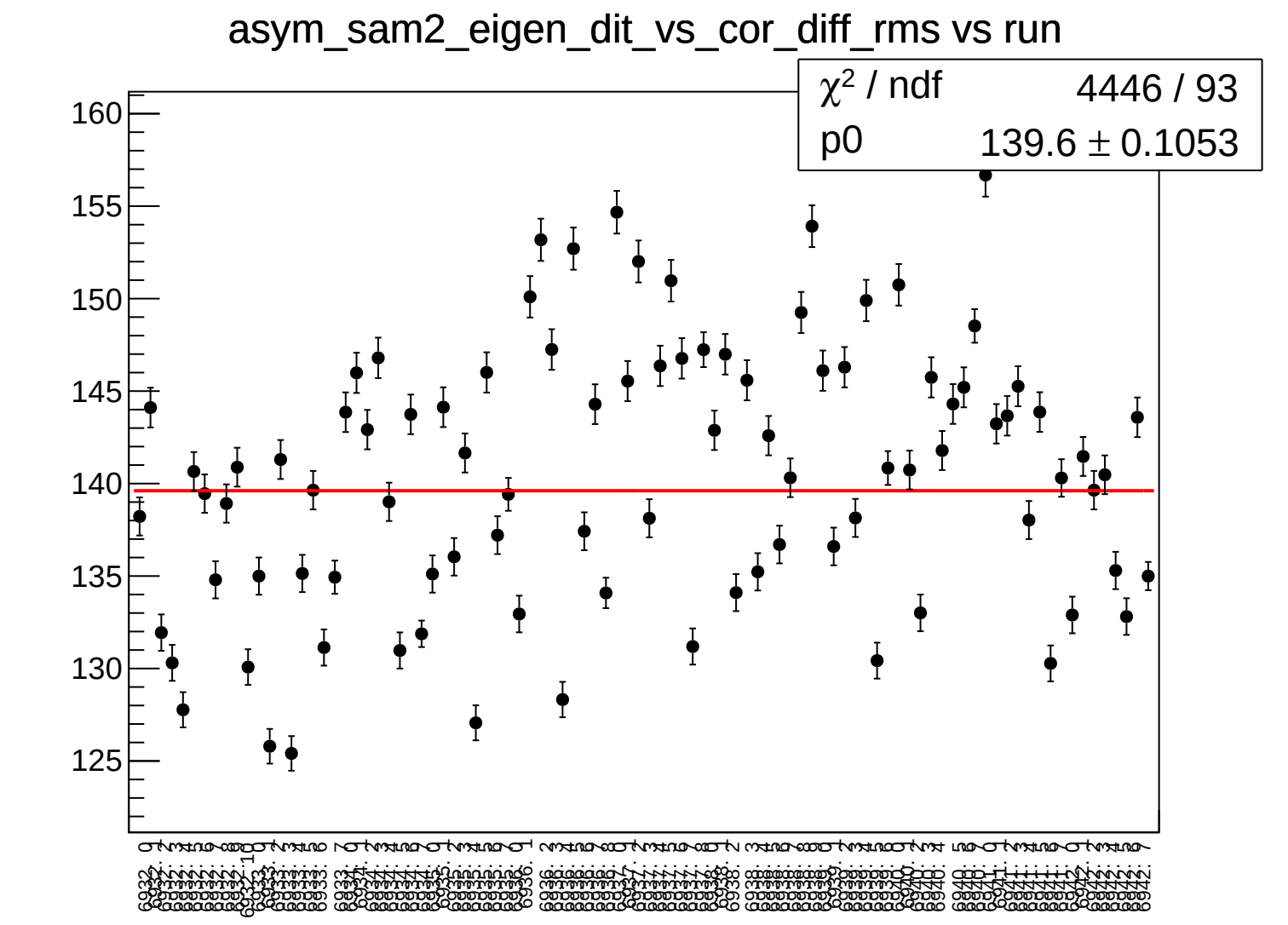

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4446 / 93
p0 139.6 ± 0.1053
160
155
150
145
140
135
130
125

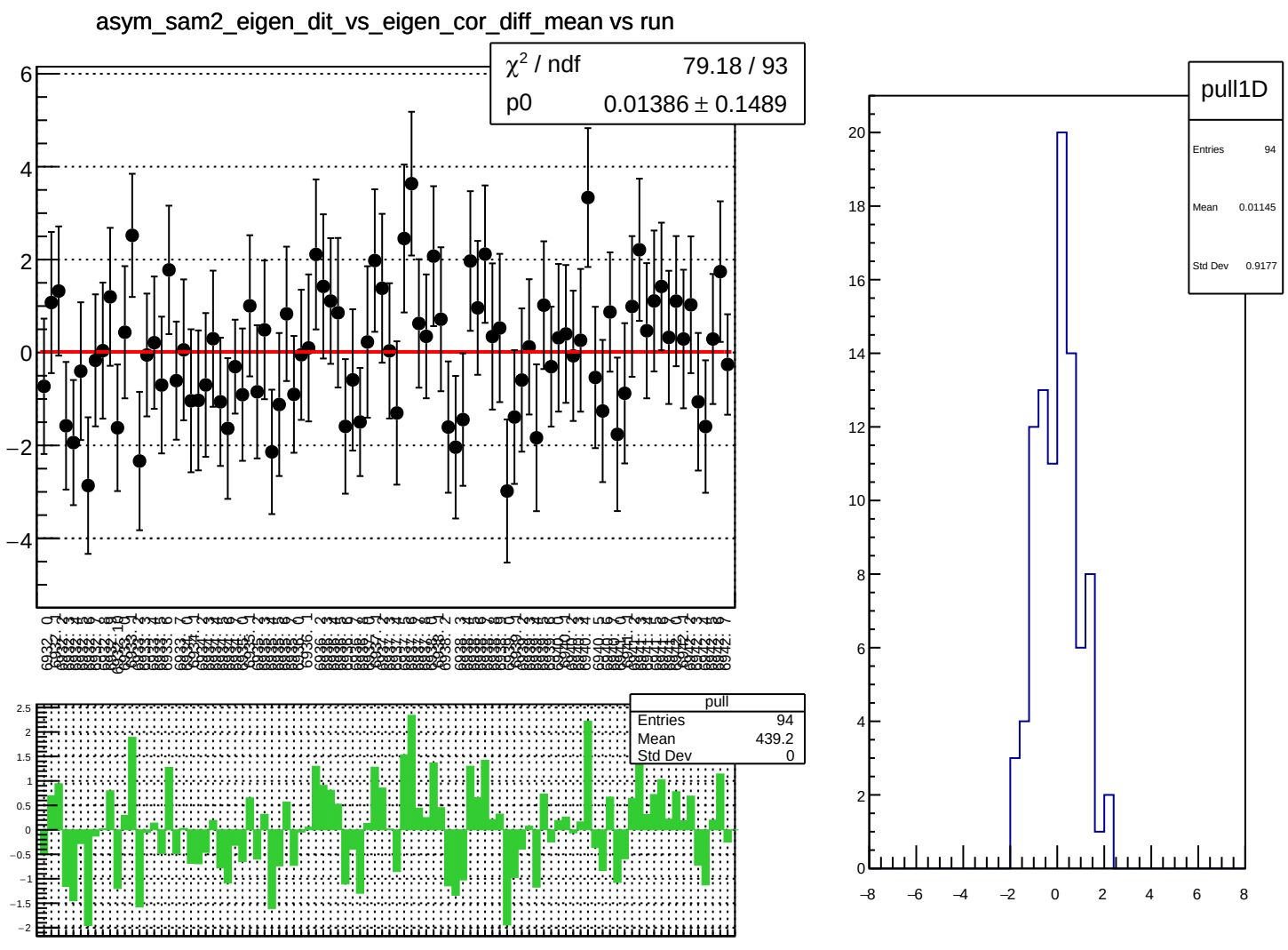

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10^-3
χ² / ndf 84.03 / 93
p0 −8.575e−06 ± 1.127e−05
pull
Entries 94
Mean 696.6
Std Dev 0
pull1D
Entries 94
Mean 0.001973
Std Dev 0.9455

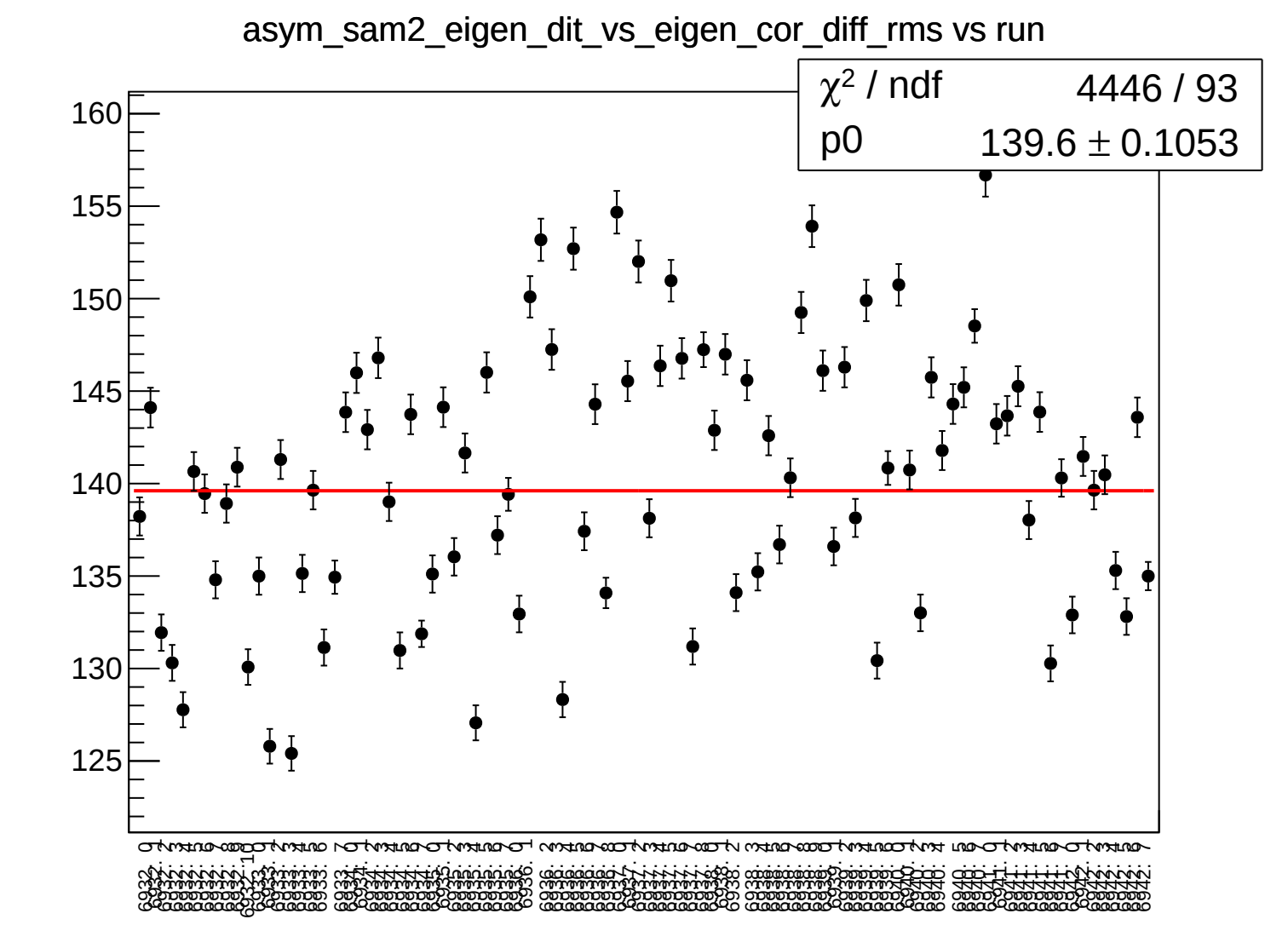

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3318 / 93
p0 0.01057 ± 7.967e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095

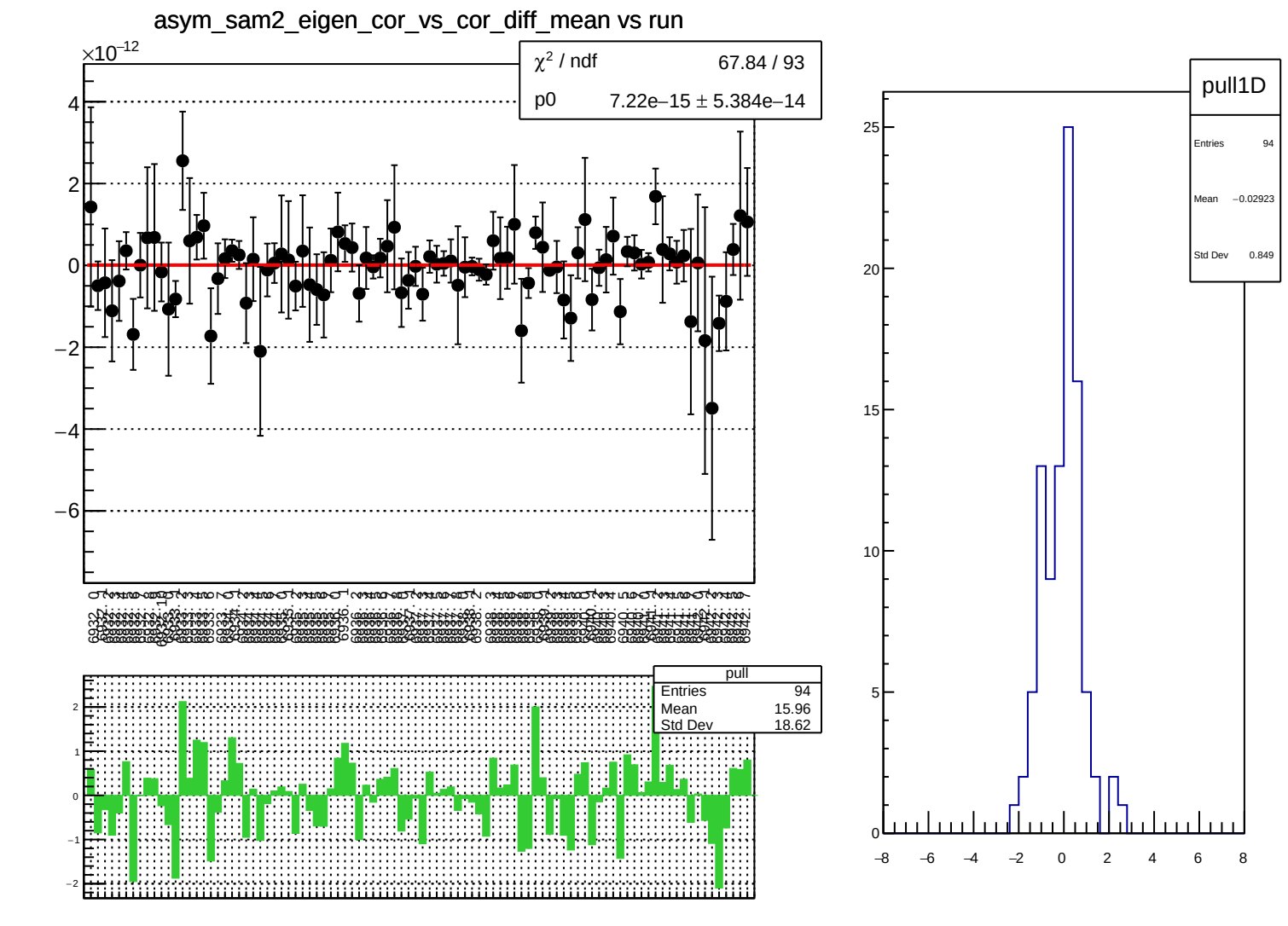

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.18 / 93
p0 0.01386 ± 0.1489
pull
Entries 94
Mean 439.2
Std Dev 0

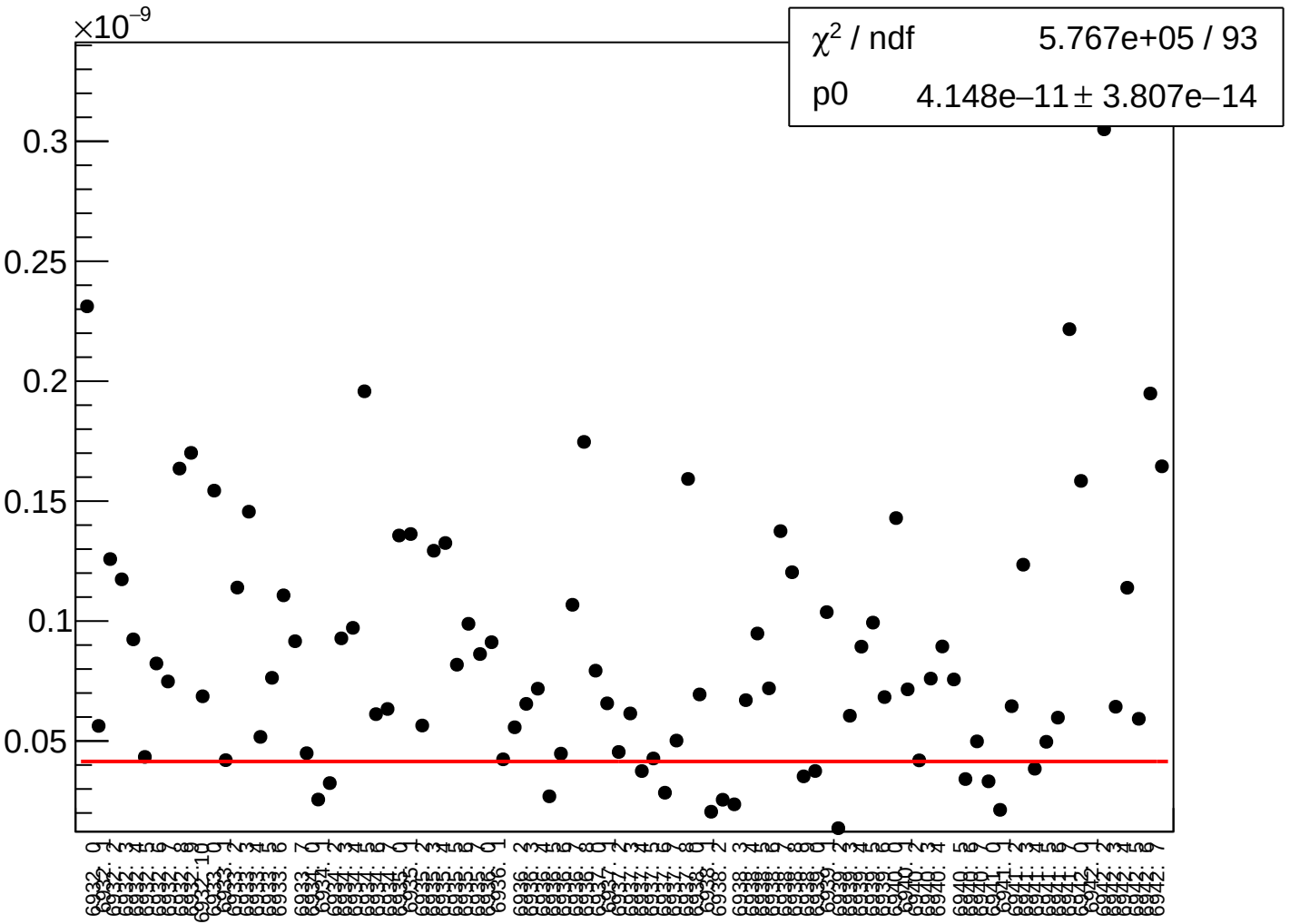

pull1D
Entries 94
Mean 0.01145
Std Dev 0.9177

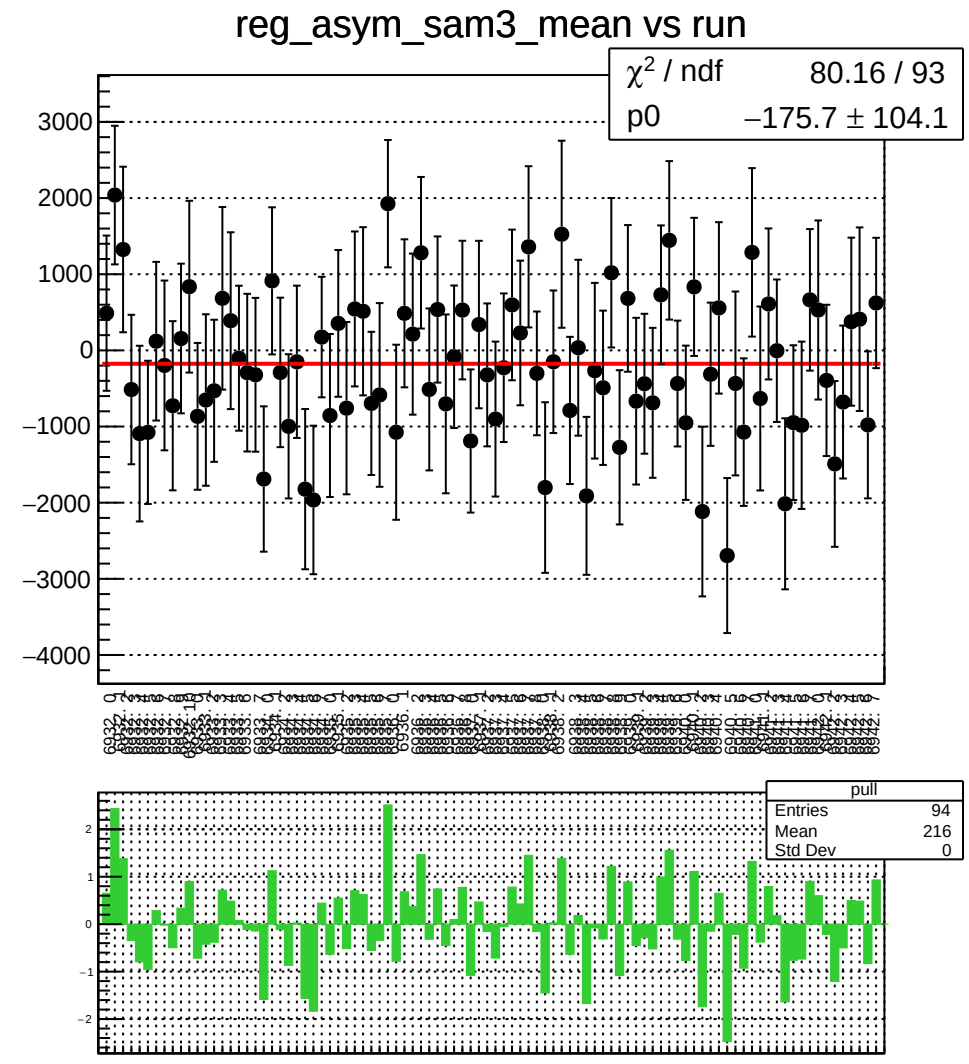

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4446 / 93
p0 139.6 ± 0.1053
160
155
150
145
140
135
130
125

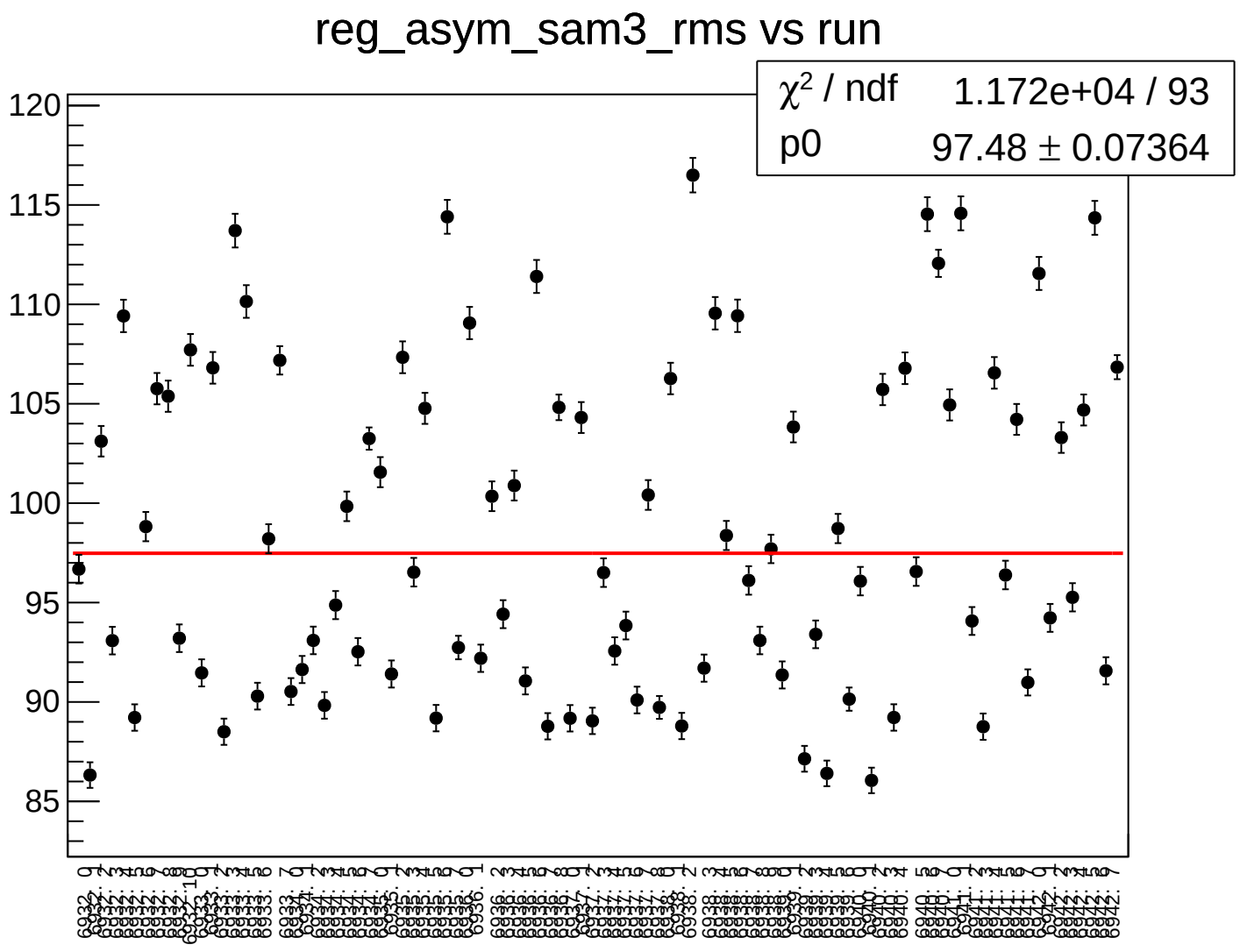

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.18 / 93
p0 0.01386 ± 0.1489
pull
Entries 94
Mean 439.2
Std Dev 0
pull1D
Entries 94
Mean 0.01145
Std Dev 0.9177

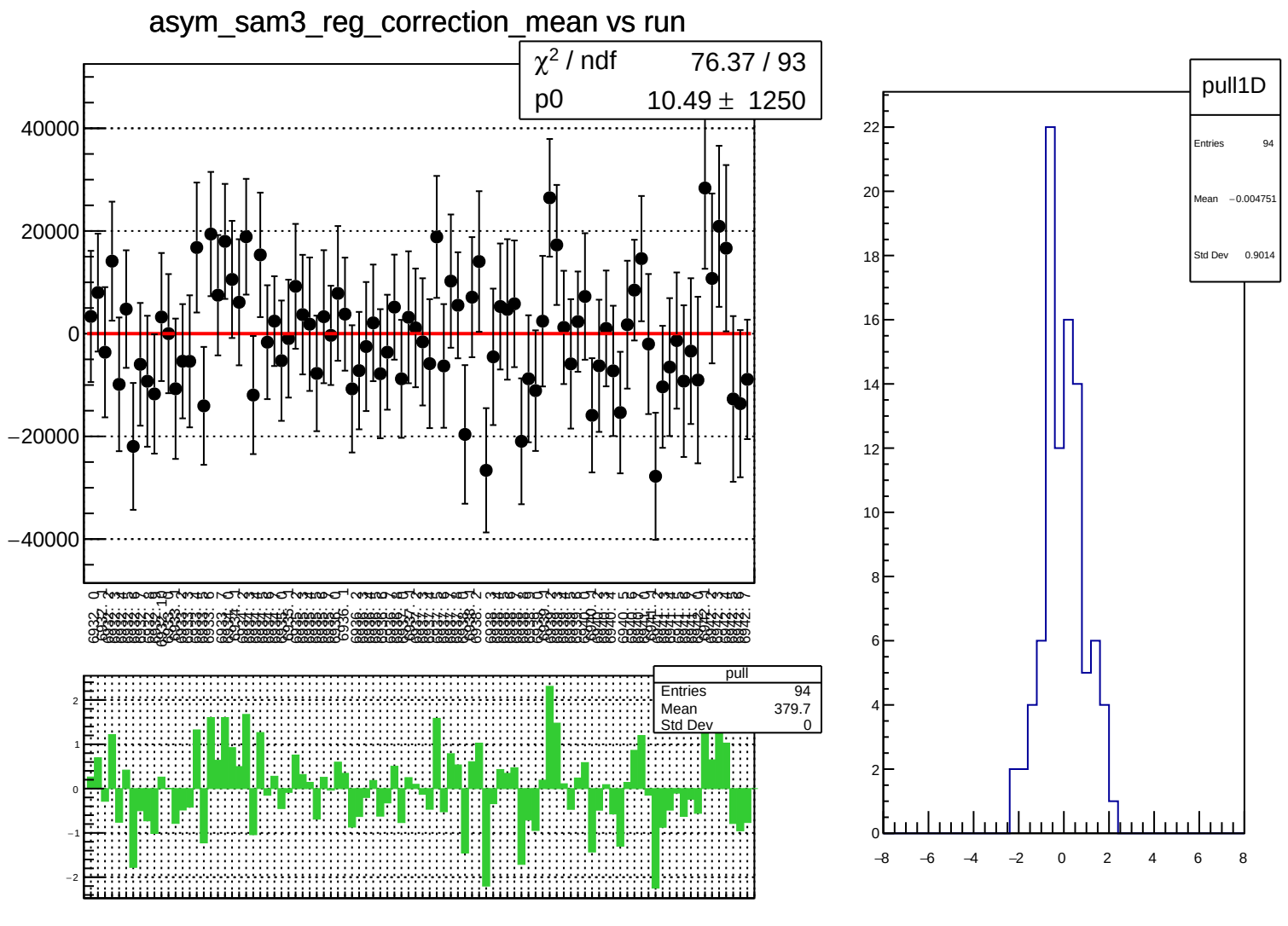

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4446 / 93
p0 139.6 ± 0.1053
160
155
150
145
140
135
130
125

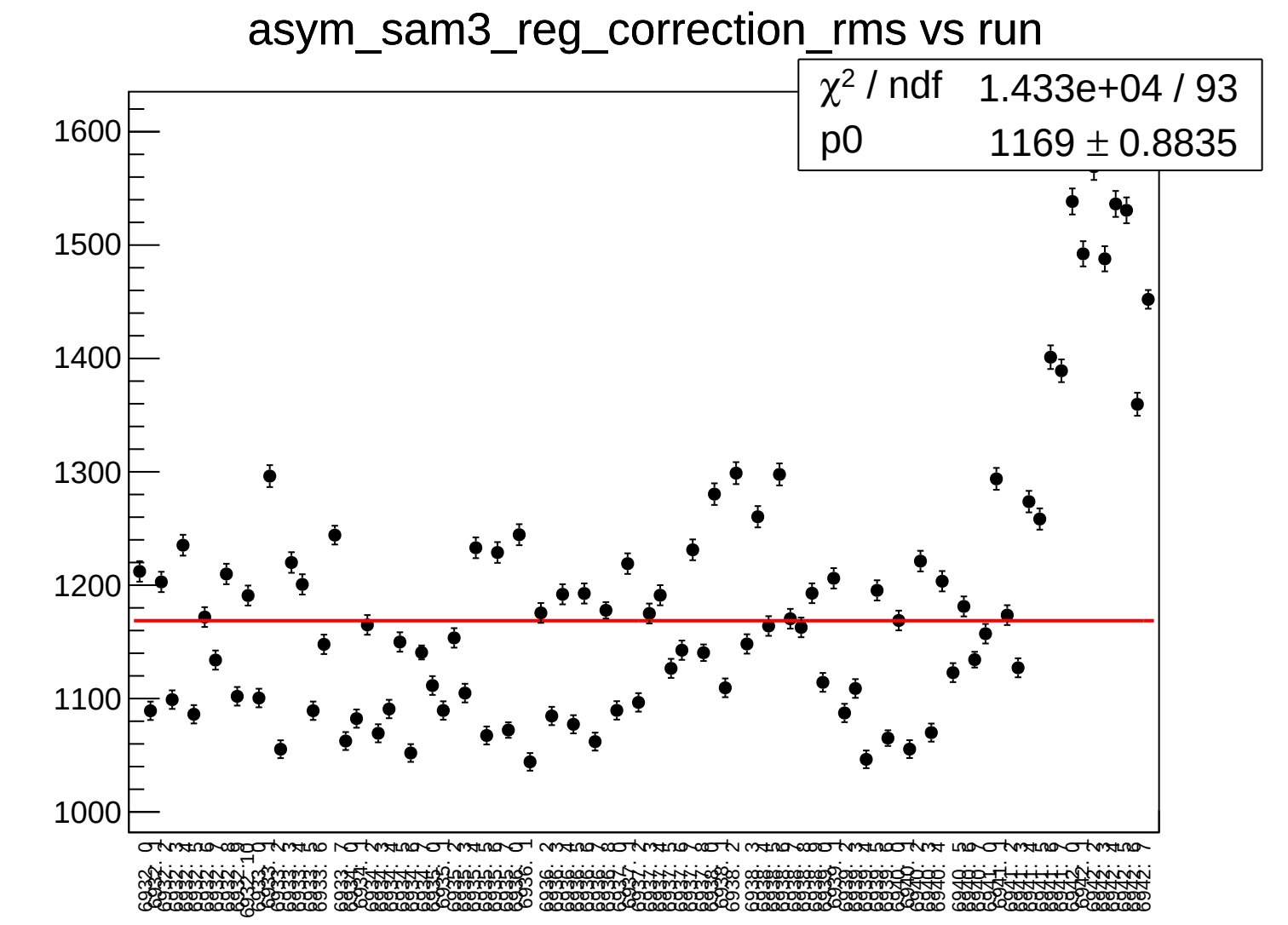

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 67.84 / 93
p0 7.22e−15 ± 5.384e−14
4
2
0
−2
−4
−6
pull
Entries 94
Mean 15.96
Std Dev 18.62
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02923
Std Dev 0.849
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

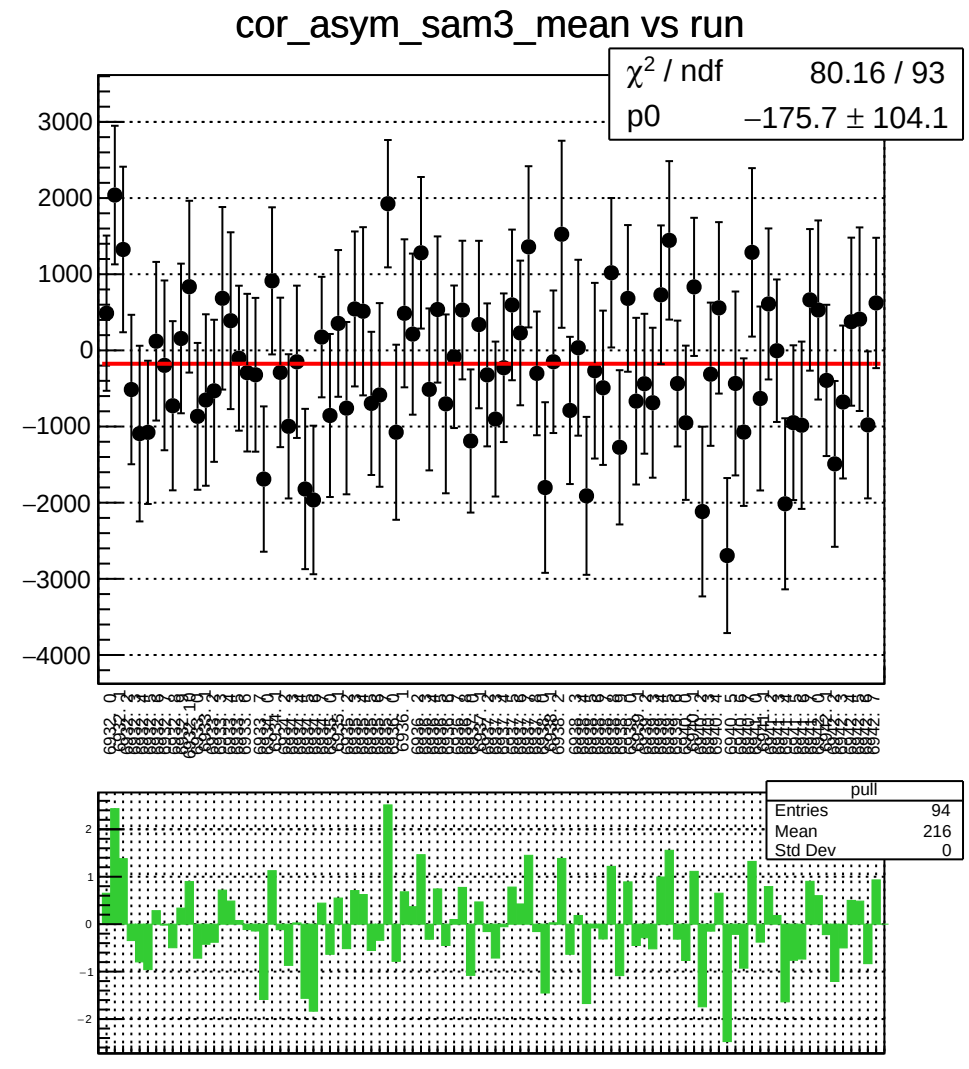

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.767e+05 / 93
p0 4.148e−11 ± 3.807e−14
0.3
0.25
0.2
0.15
0.1
0.05

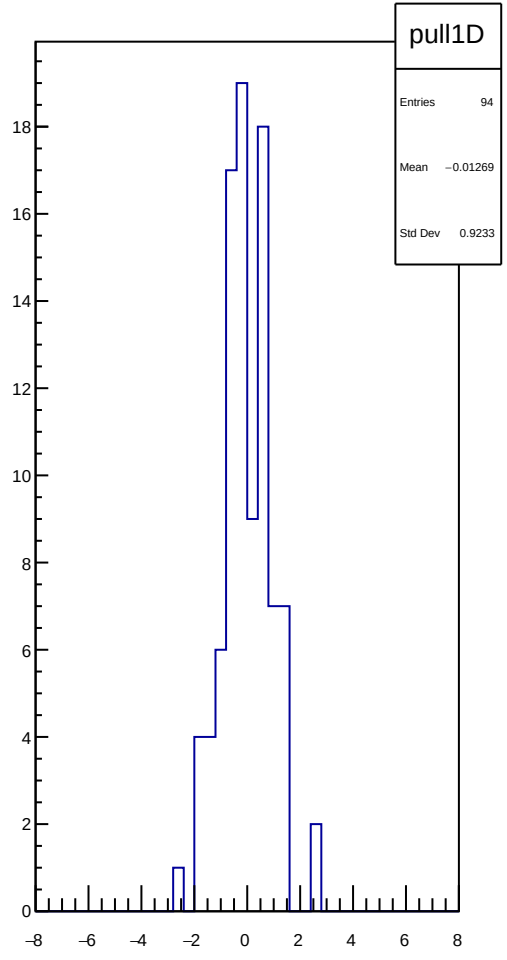

reg_asym_sam3_mean vs run
χ² / ndf 80.16 / 93
p0 −175.7 ± 104.1
pull
Entries 94
Mean 216
Std Dev 0
pull1D
Entries 94
Mean −0.01269
Std Dev 0.9234

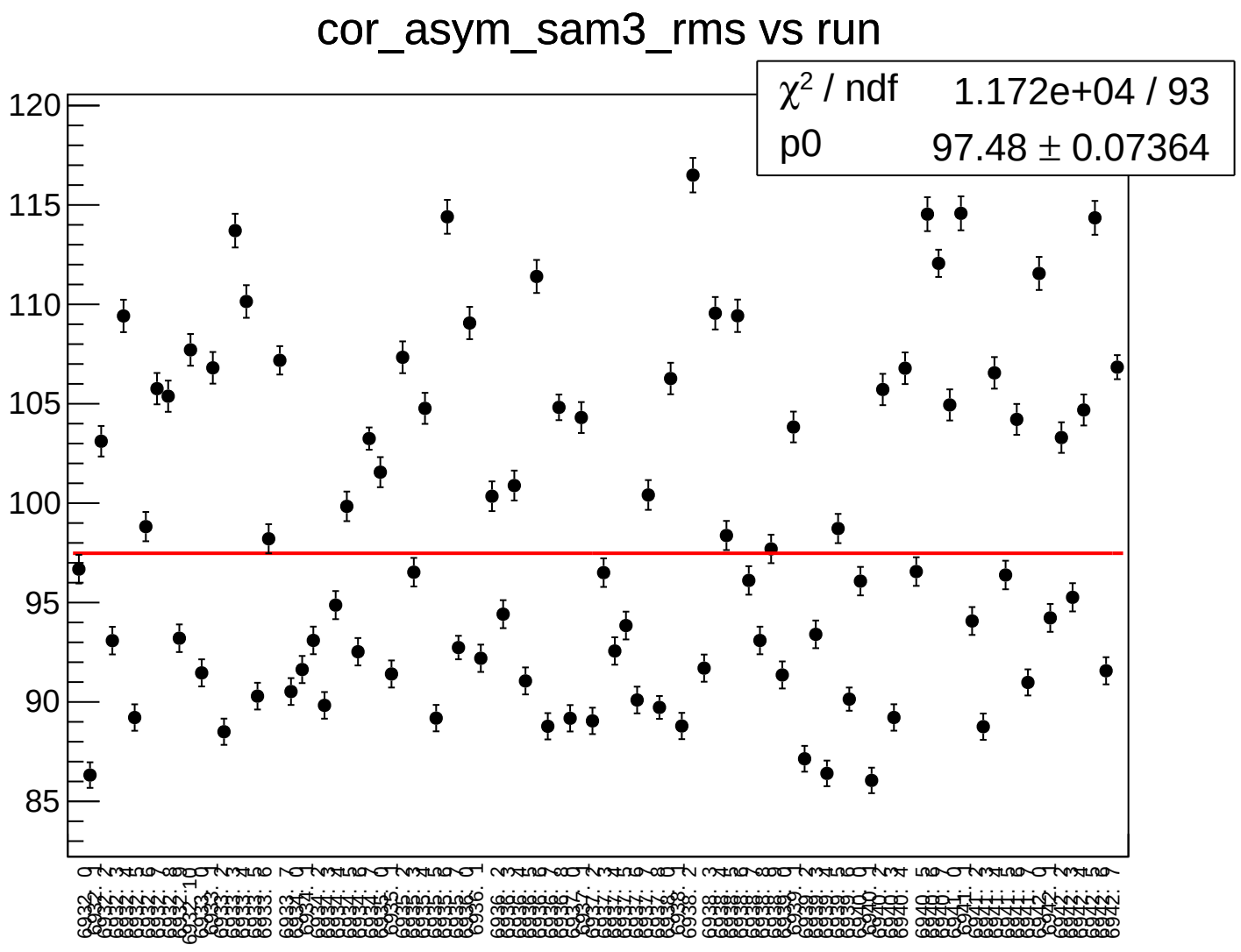

reg_asym_sam3_rms vs run
χ² / ndf 1.172e+04 / 93
p0 97.48 ± 0.07364
120
115
110
105
100
95
90
85

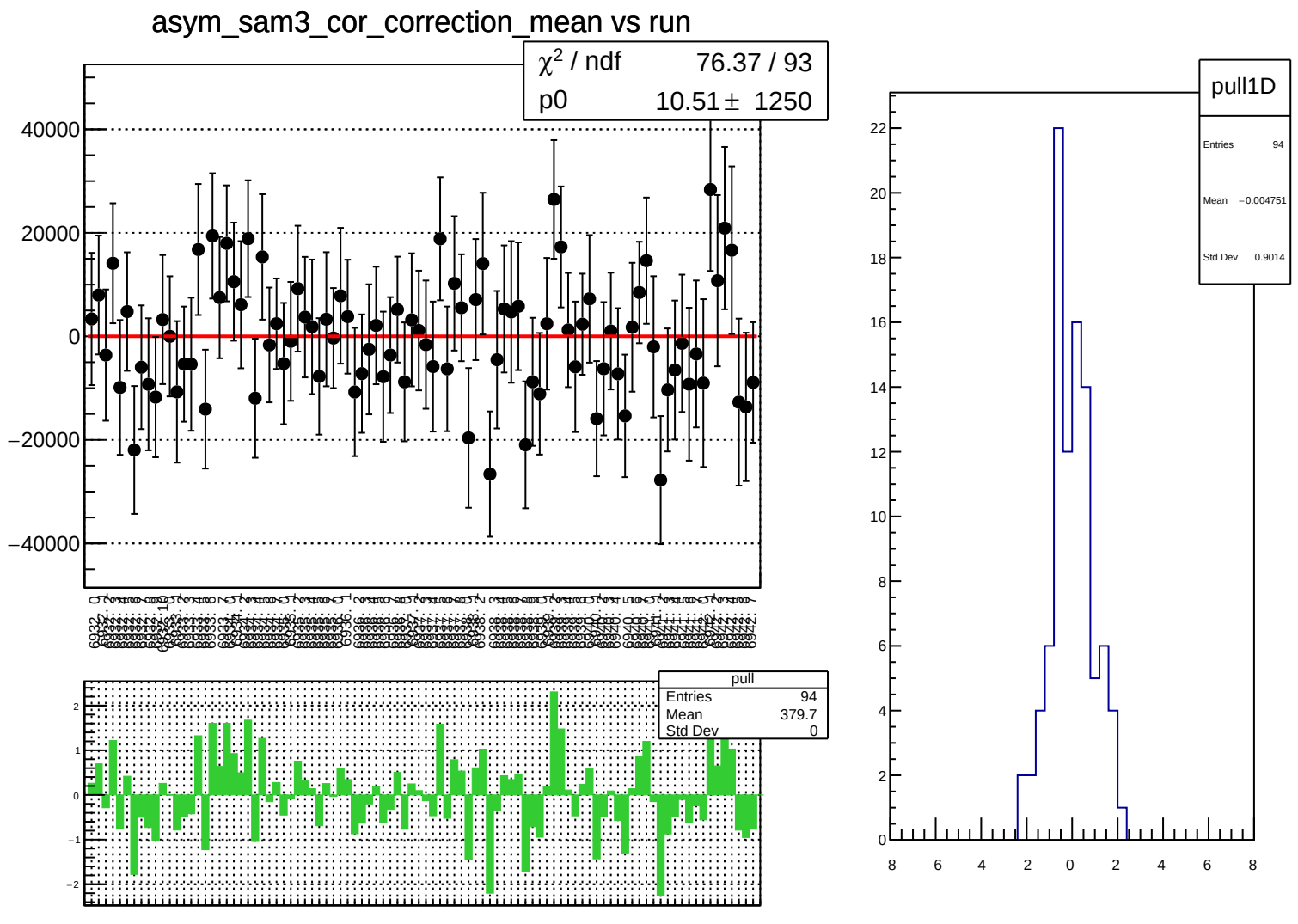

asym_sam3_reg_correction_mean vs run
χ² / ndf 76.37 / 93
p0 10.49 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 379.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004751
Std Dev 0.9014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

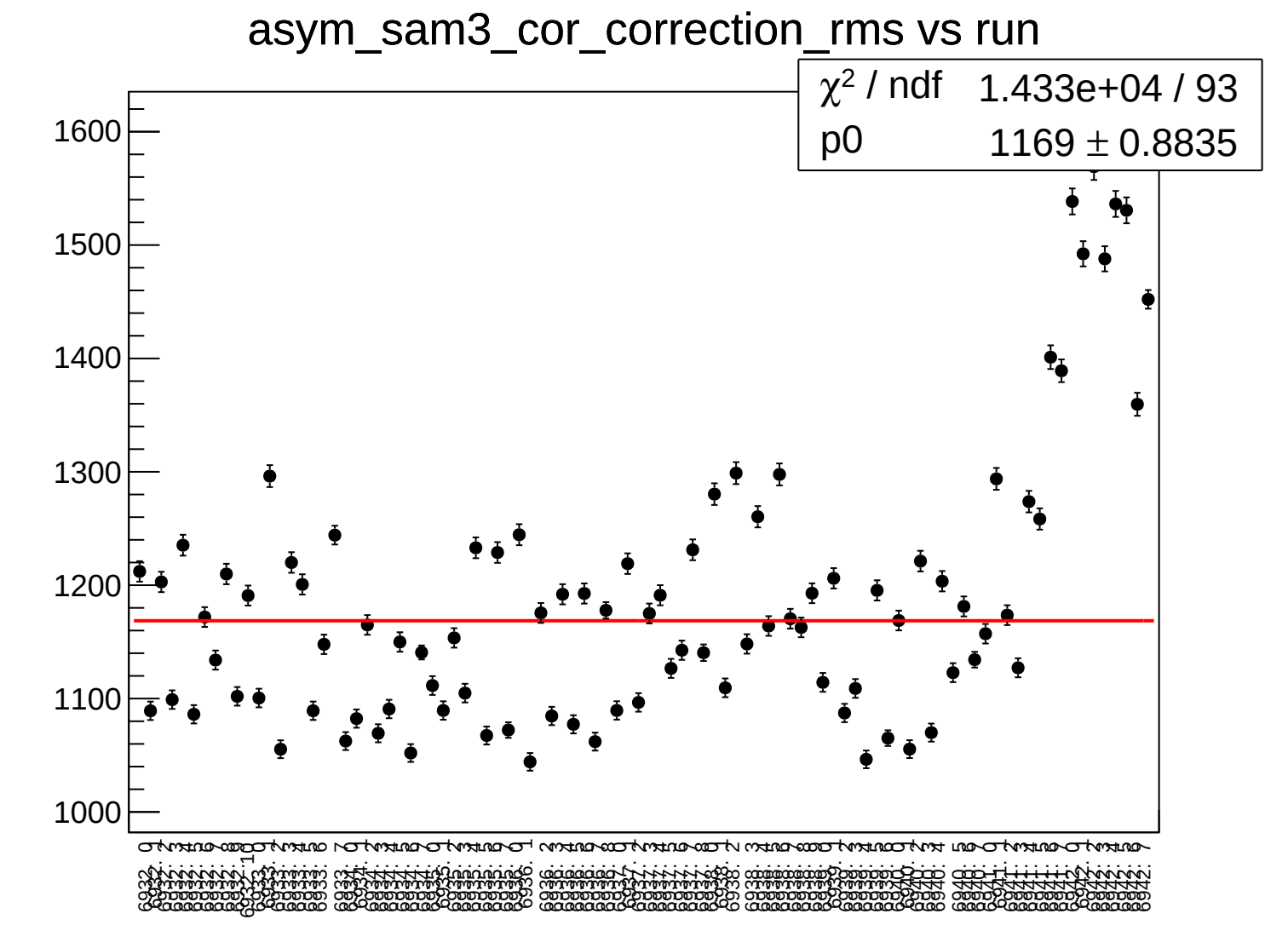

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.433e+04 / 93
p0 1169 ± 0.8835
1600
1500
1400
1300
1200
1100
1000

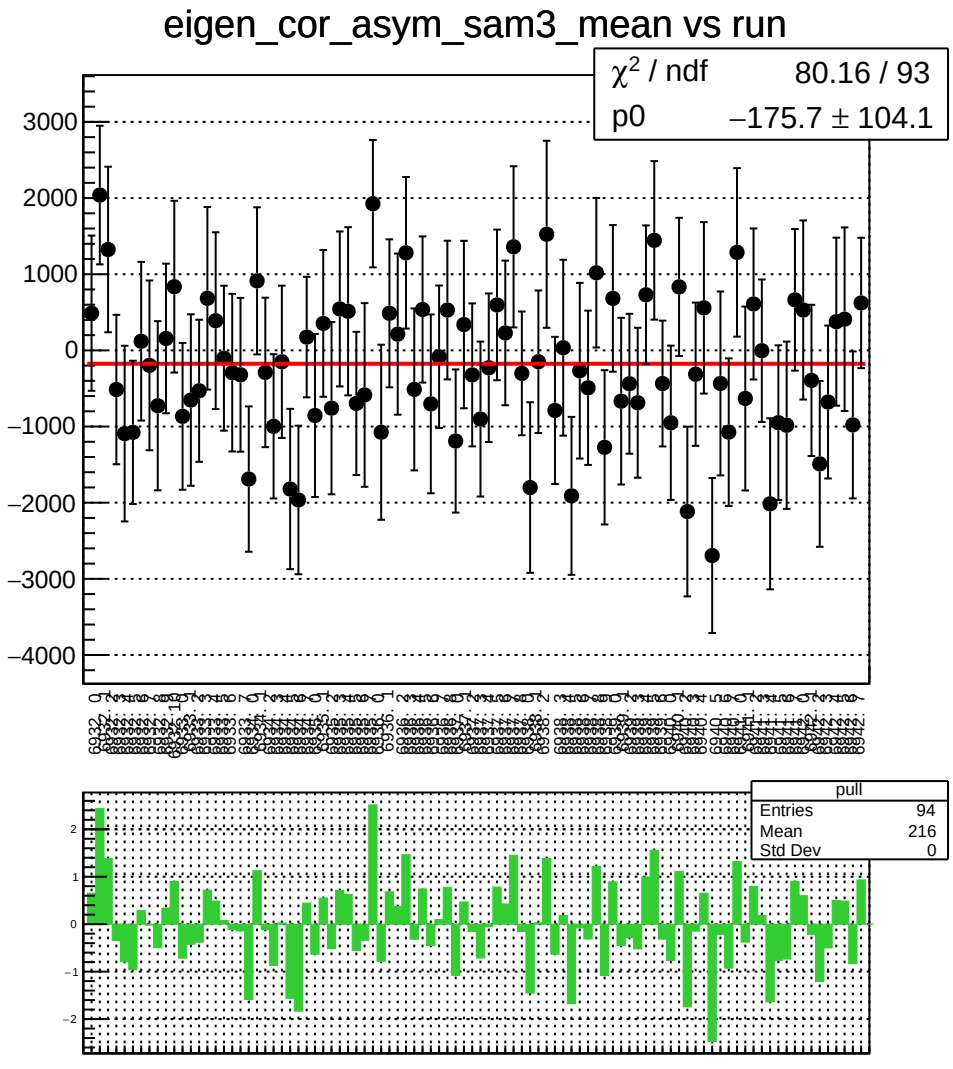

cor_asym_sam3_mean vs run
χ² / ndf 80.16 / 93
p0 −175.7 ± 104.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 216
Std Dev 0
2
1
0
−1
−2

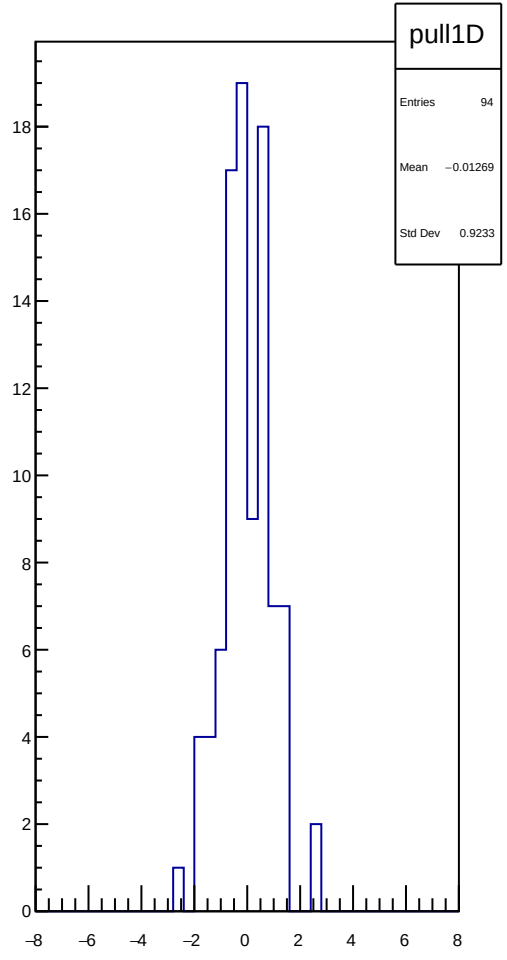

pull1D
Entries 94
Mean −0.01269
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

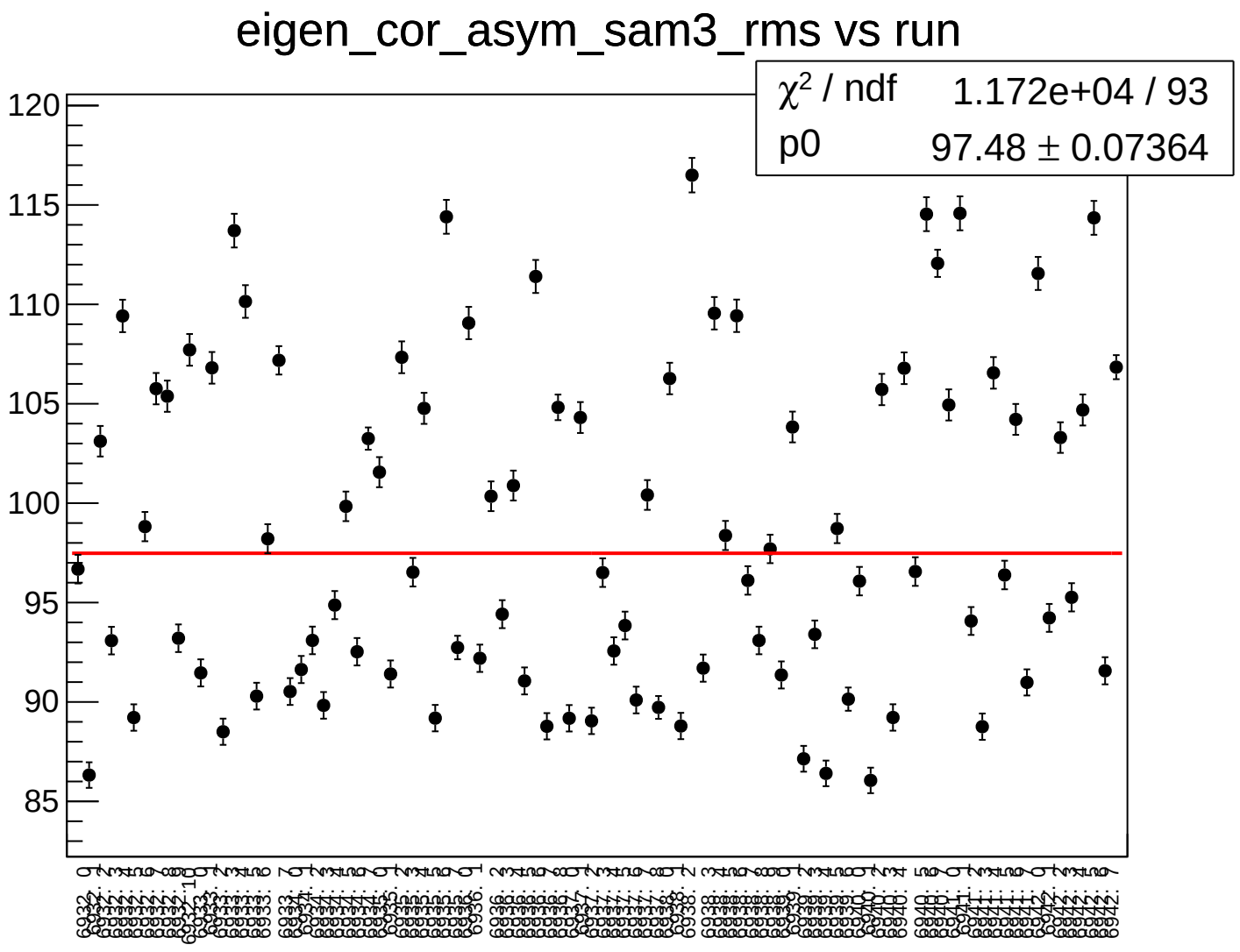

cor_asym_sam3_rms vs run
χ² / ndf 1.172e+04 / 93
p0 97.48 ± 0.07364
120
115
110
105
100
95
90
85

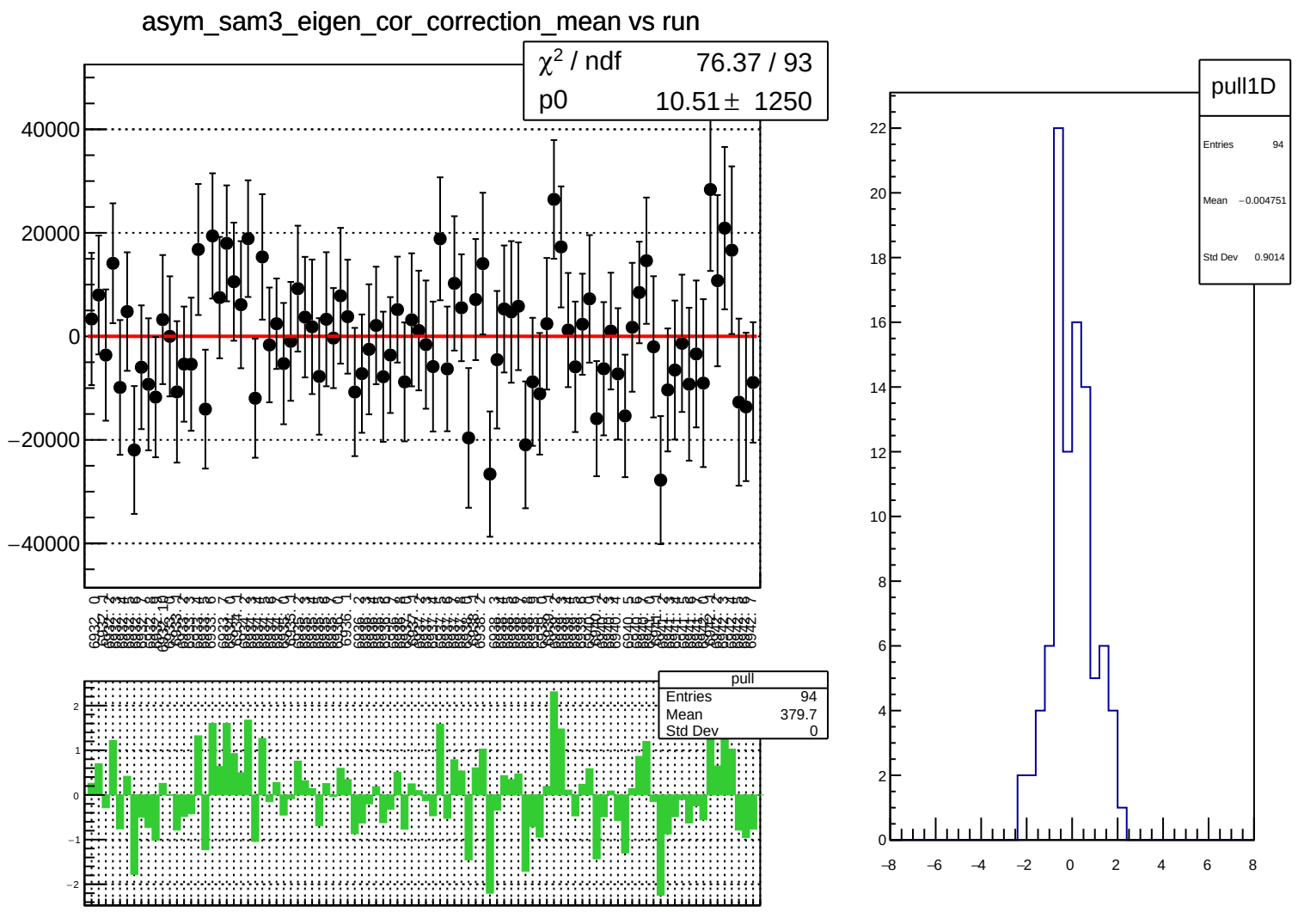

asym_sam3_cor_correction_mean vs run
χ² / ndf 76.37 / 93
p0 10.51 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 379.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004751
Std Dev 0.9014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

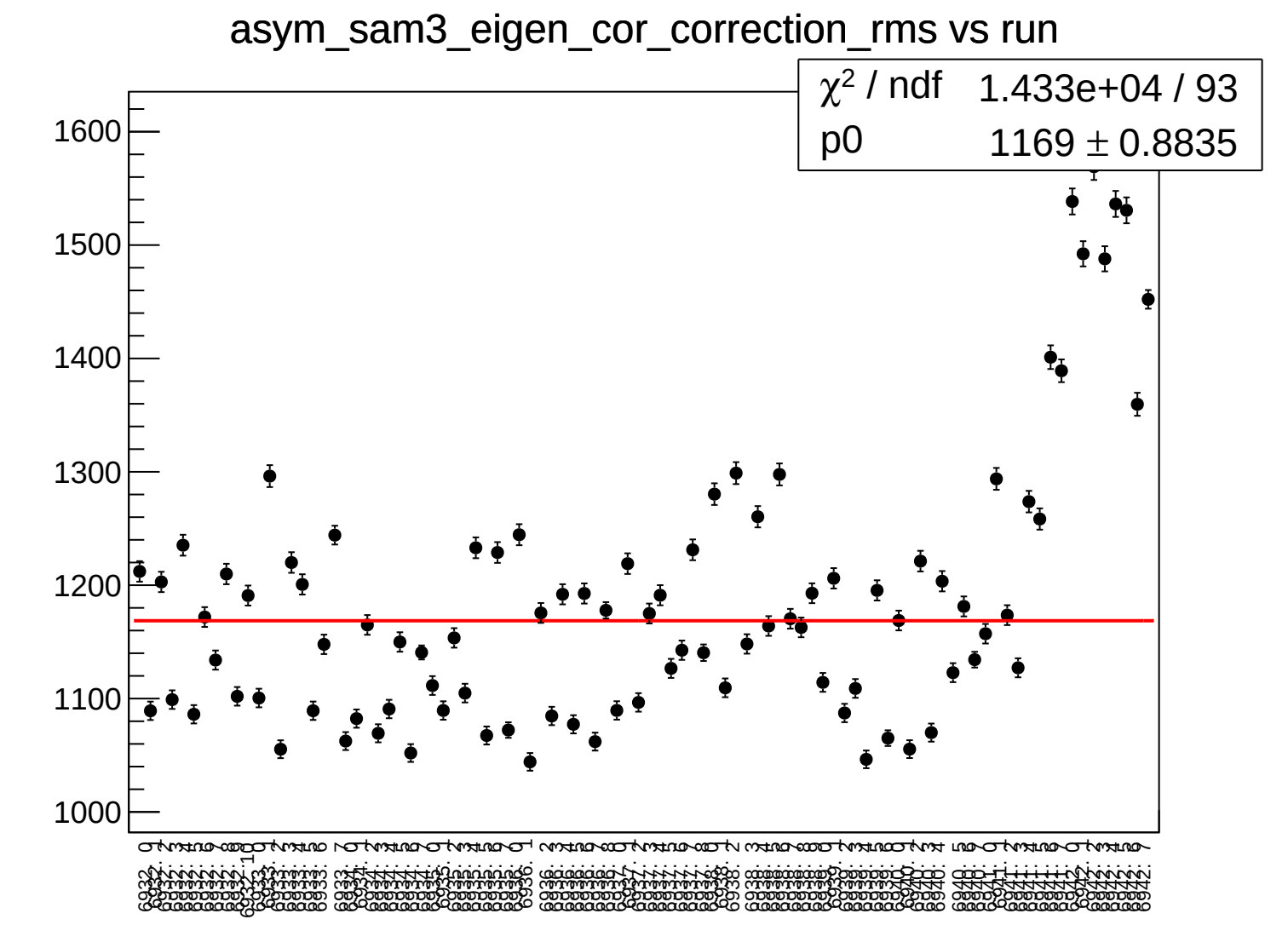

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.433e+04 / 93
p0 1169 ± 0.8835
1600
1500
1400
1300
1200
1100
1000

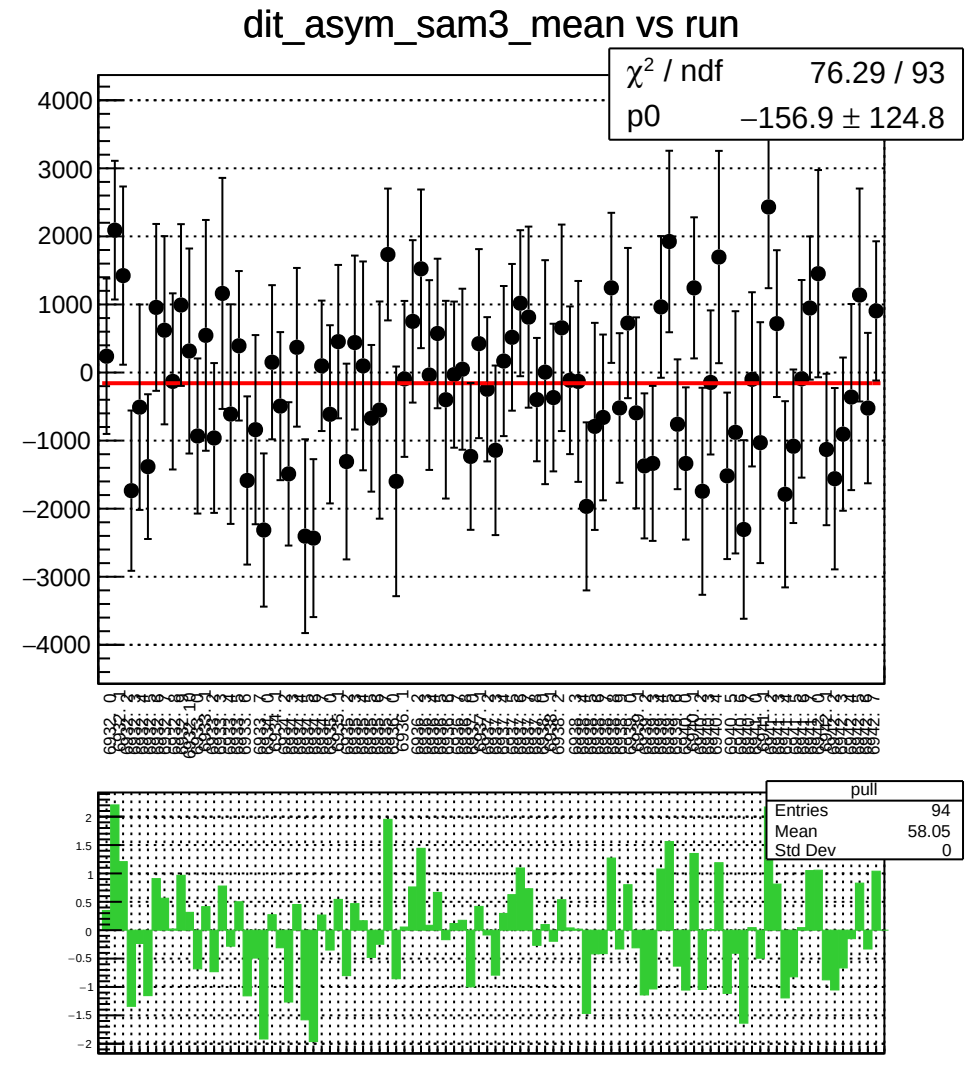

eigen_cor_asym_sam3_mean vs run
χ² / ndf 80.16 / 93
p0 −175.7 ± 104.1
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 216
Std Dev 0
2
1
0
−1
−2

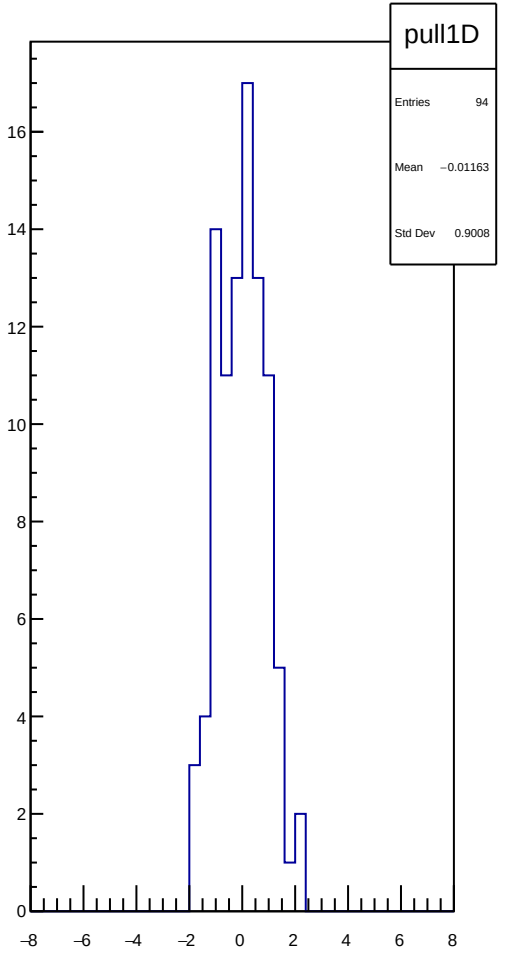

pull1D
Entries 94
Mean −0.01269
Std Dev 0.9233
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

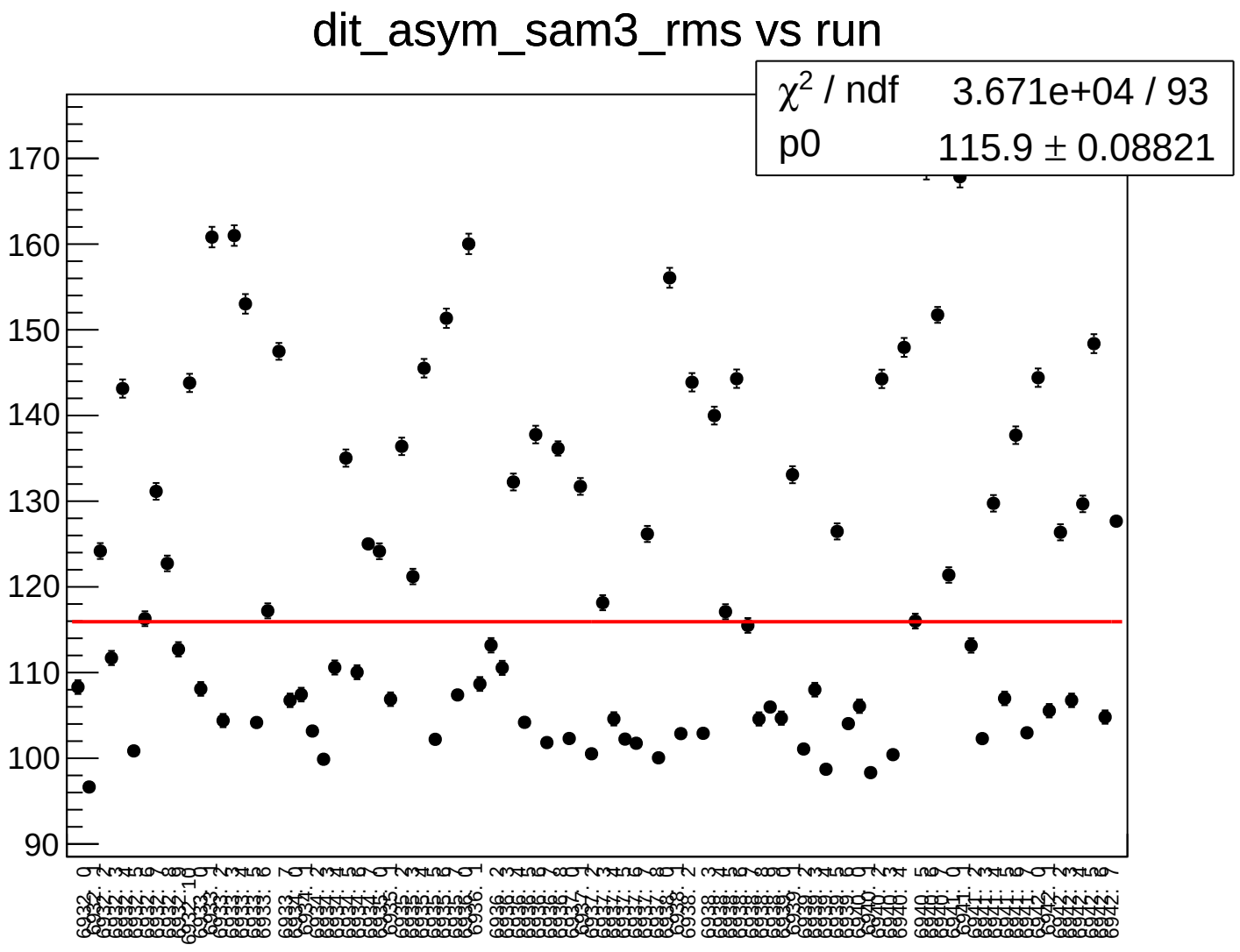

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.172e+04 / 93
p0 97.48 ± 0.07364
120
115
110
105
100
95
90
85

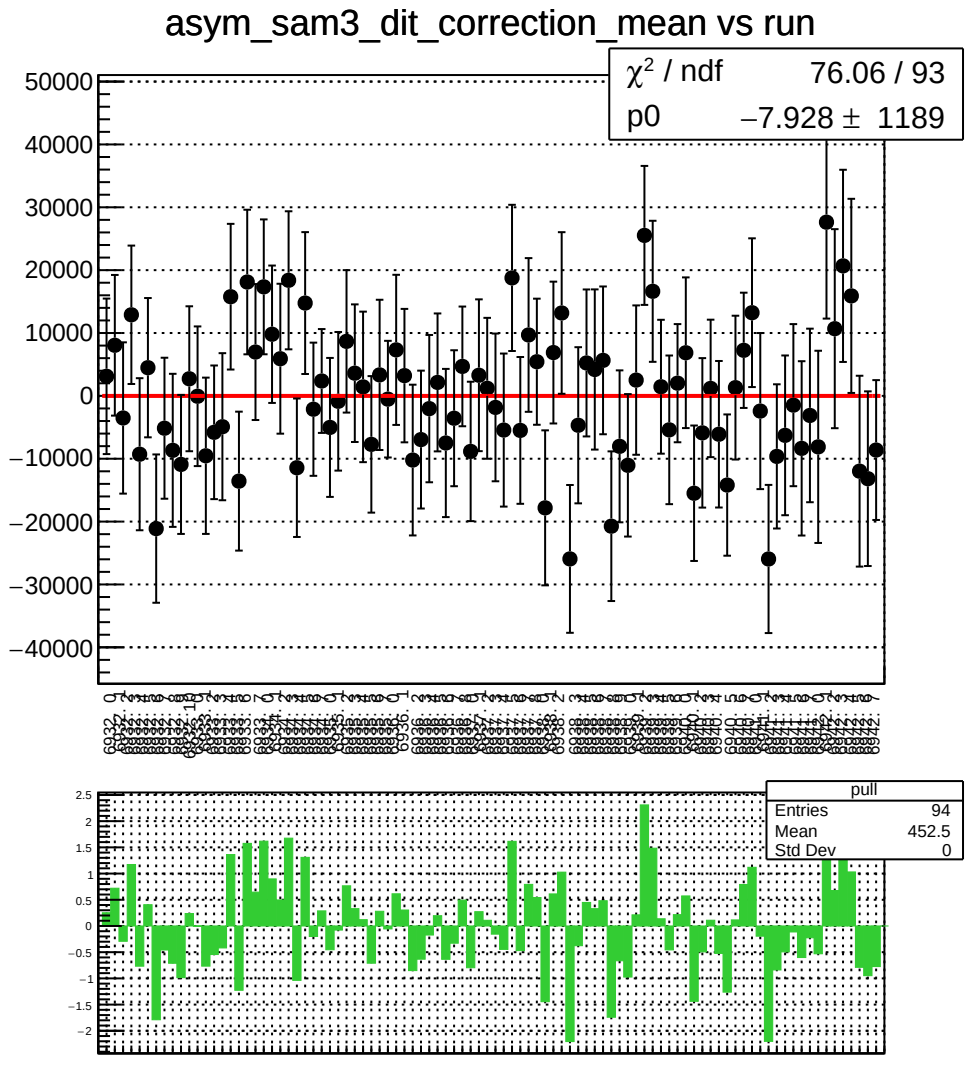

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 76.37 / 93
p0 10.51 ± 1250
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 379.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004751
Std Dev 0.9014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

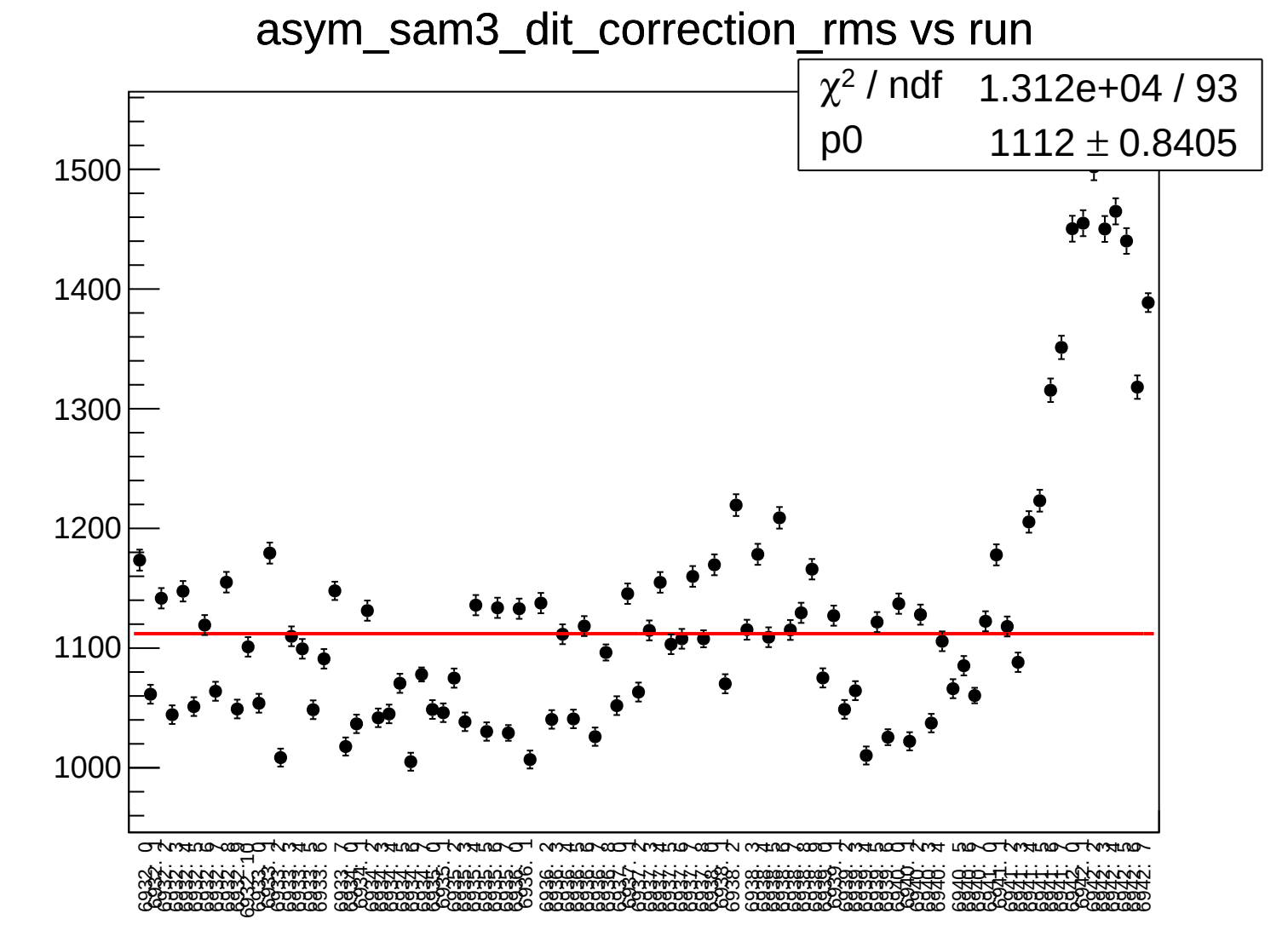

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.433e+04 / 93
p0 1169 ± 0.8835
1600
1500
1400
1300
1200
1100
1000

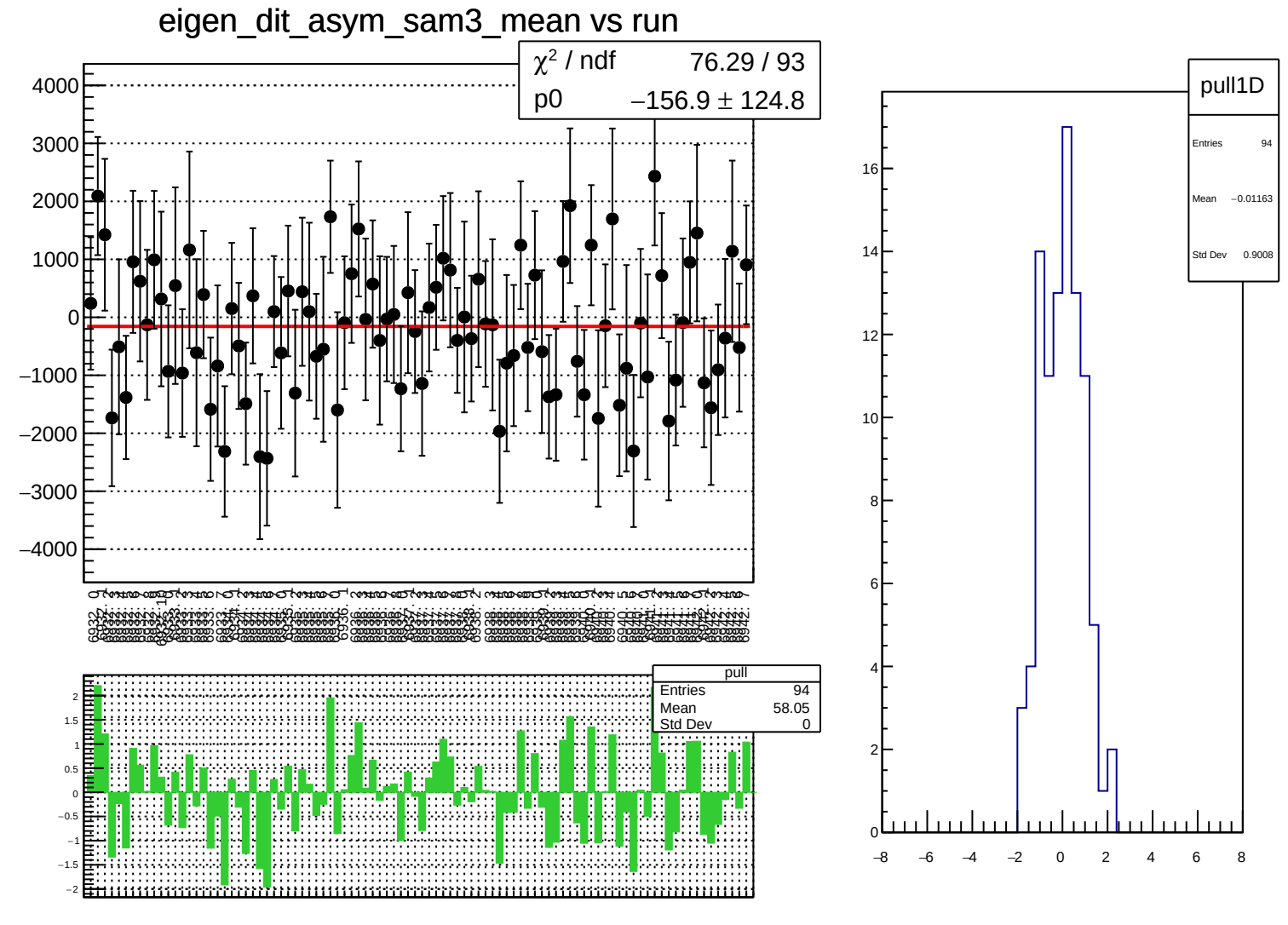

dit_asym_sam3_mean vs run
χ² / ndf 76.29 / 93
p0 −156.9 ± 124.8
pull
Entries 94
Mean 58.05
Std Dev 0

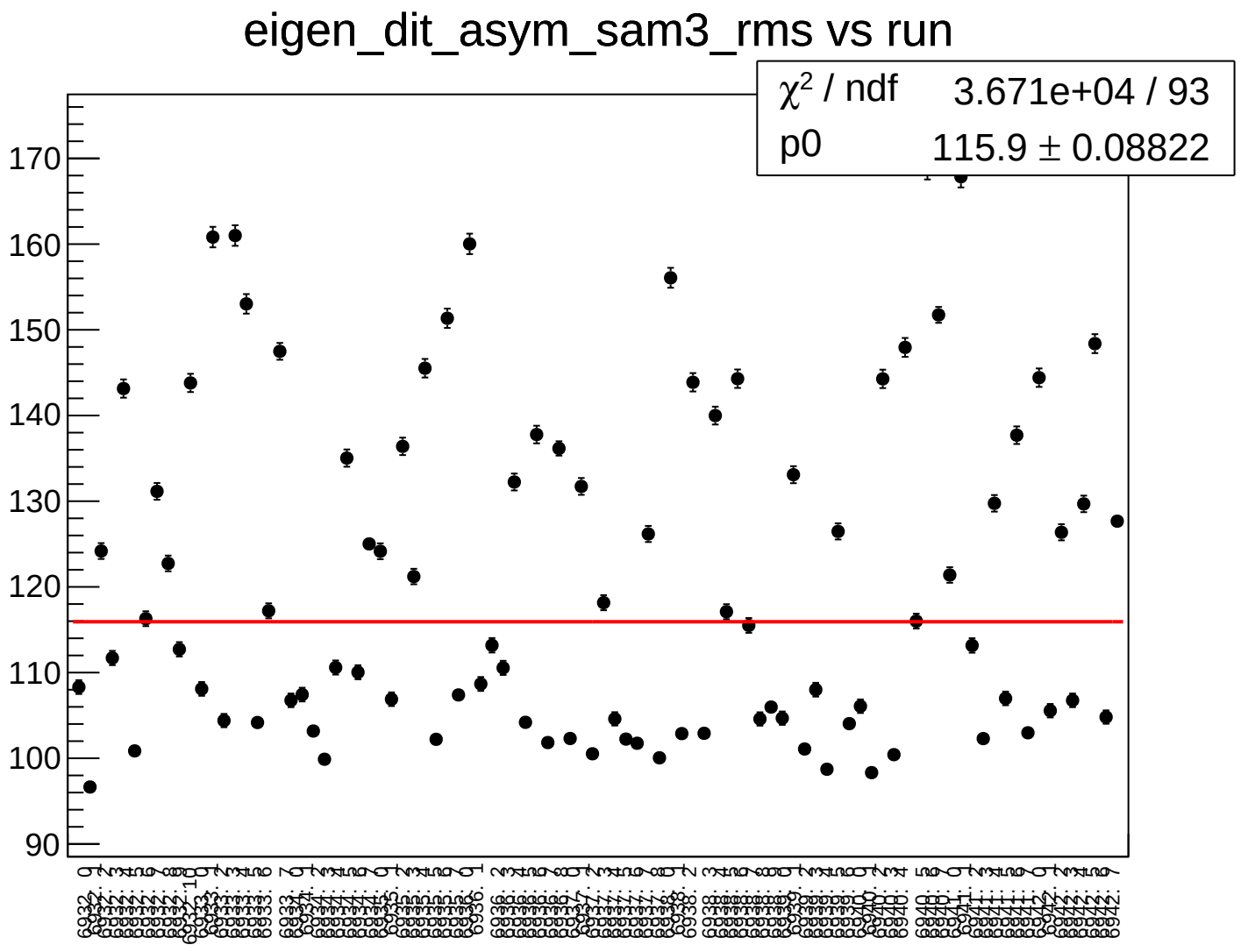

pull1D
Entries 94
Mean −0.01163
Std Dev 0.9008

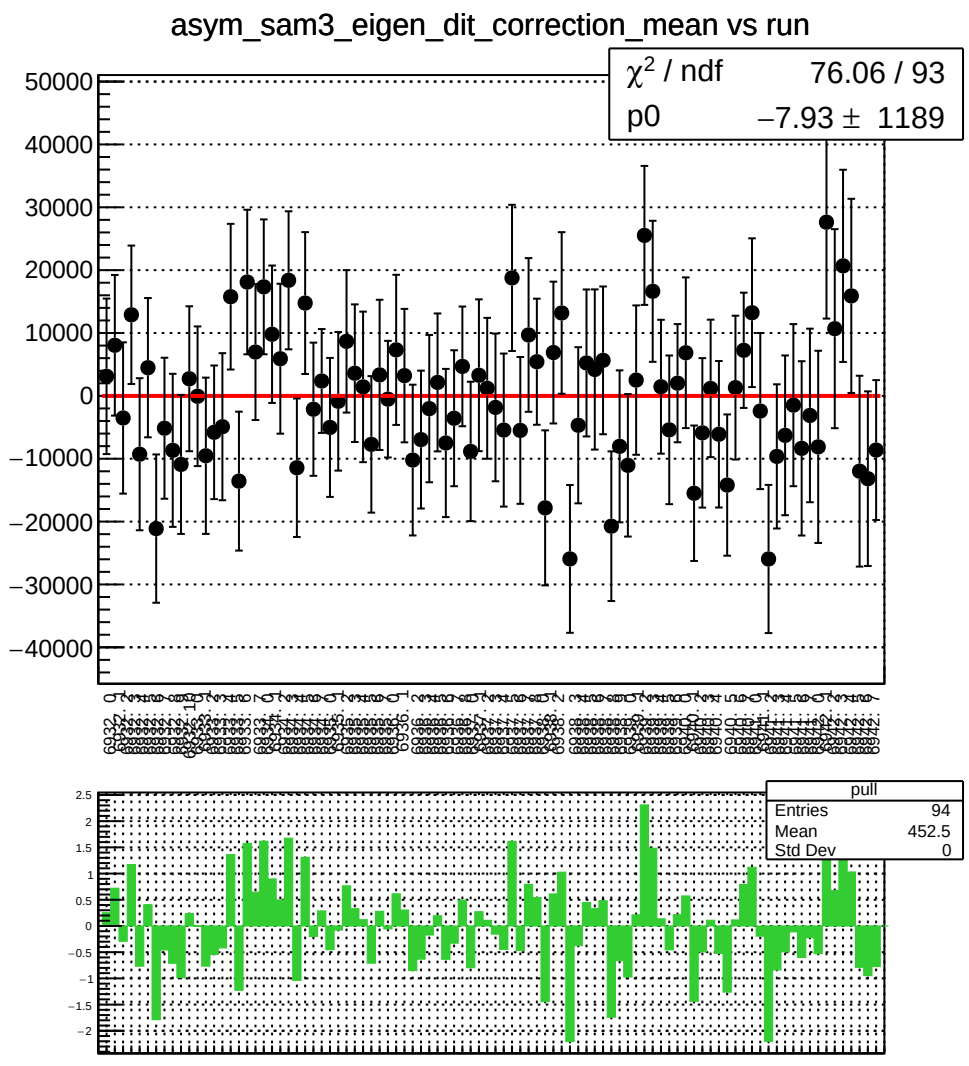

dit_asym_sam3_rms vs run
χ^2 / ndf 3.671e+04 / 93
p0 115.9 ± 0.08821
170
160
150
140
130
120
110
100
90

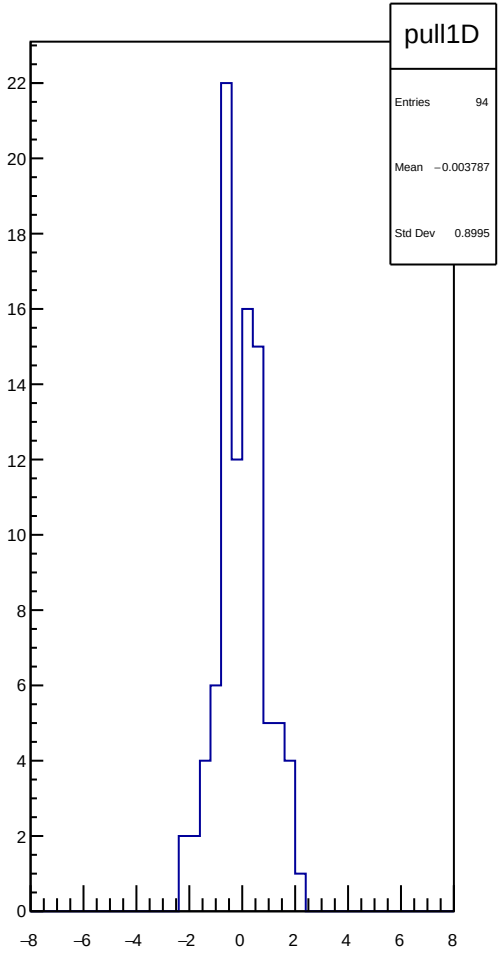

asym_sam3_dit_correction_mean vs run
χ² / ndf 76.06 / 93
p0 −7.928 ± 1189
pull
Entries 94
Mean 452.5
Std Dev 0
pull1D
Entries 94
Mean −0.003787
Std Dev 0.8995

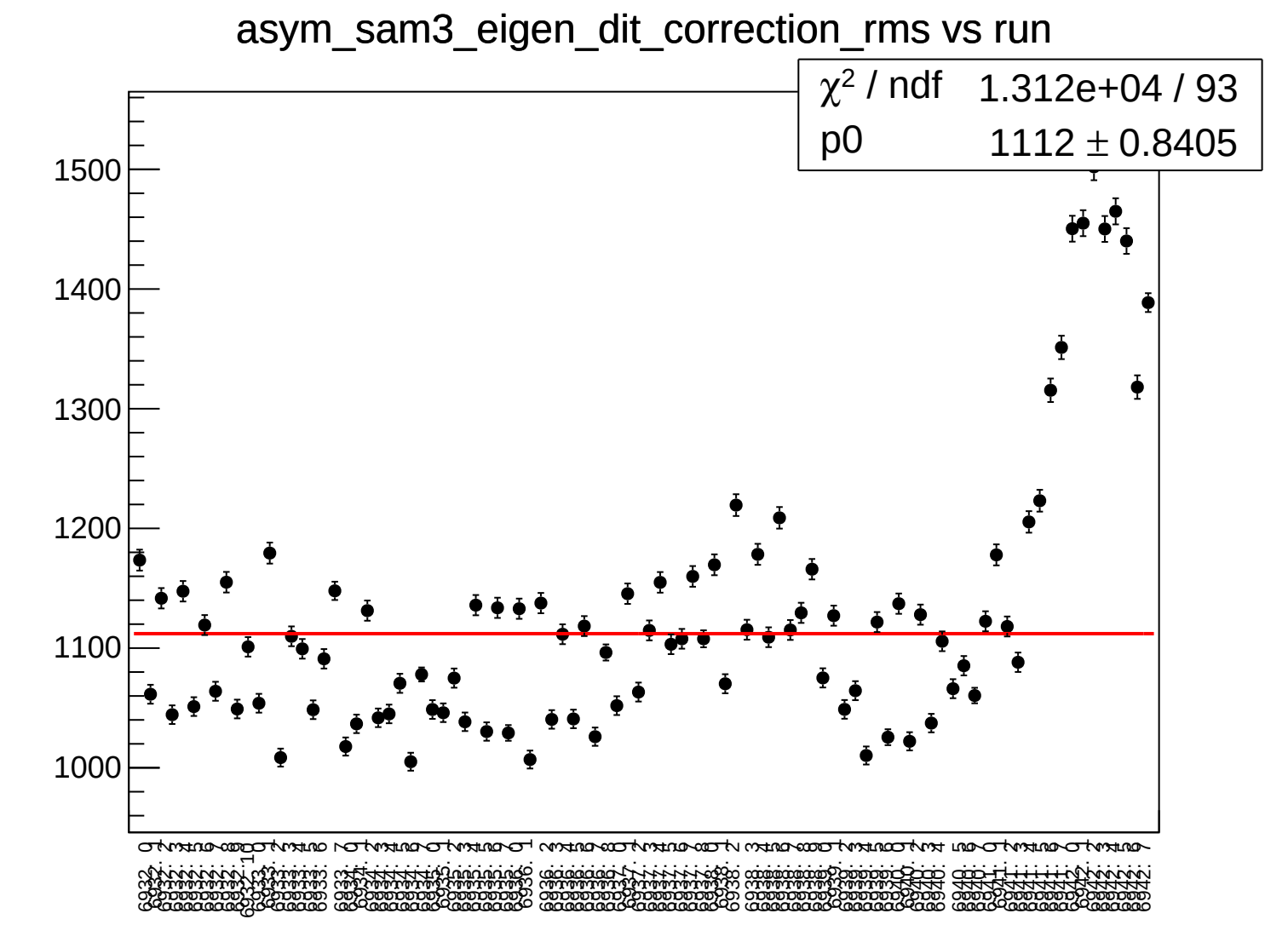

asym_sam3_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 93
p0 1112 ± 0.8405
1500
1400
1300
1200
1100
1000

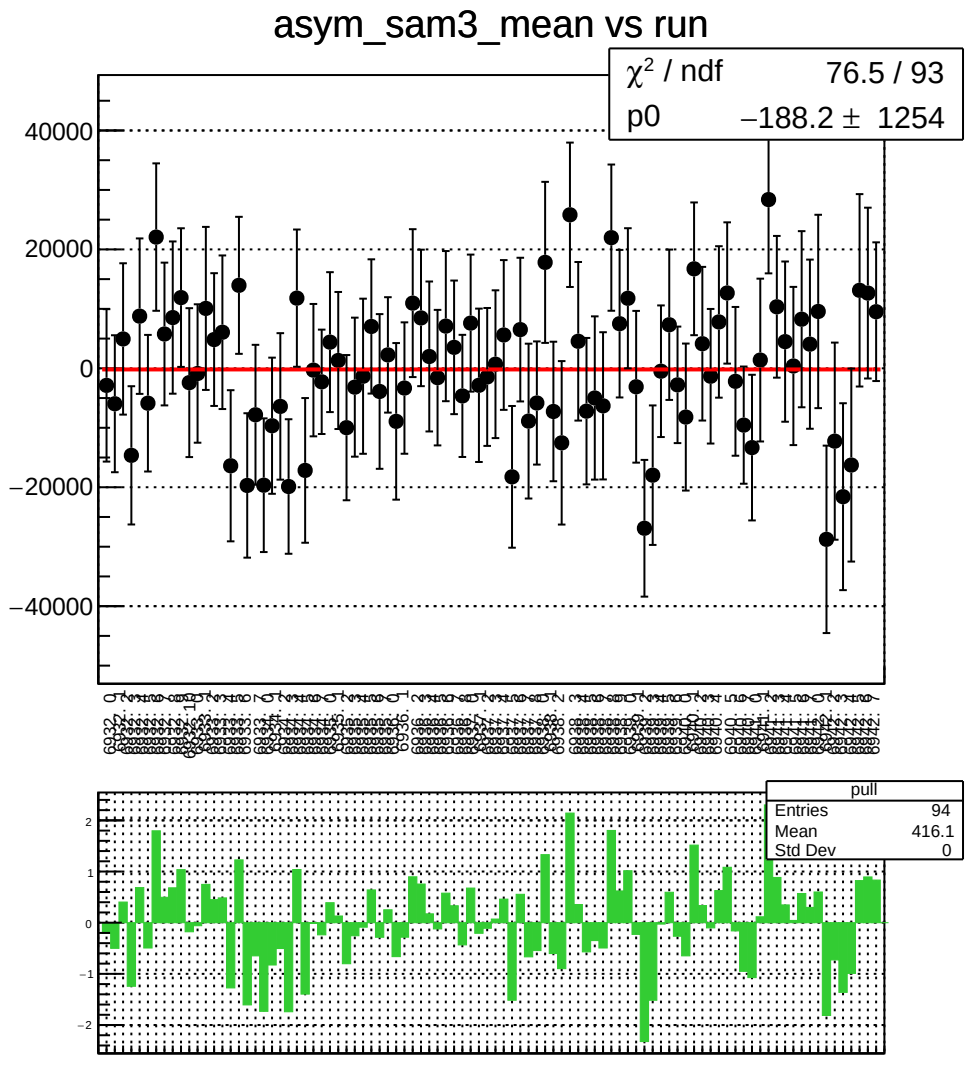

eigen_dit_asym_sam3_mean vs run
χ² / ndf 76.29 / 93
p0 −156.9 ± 124.8
pull
Entries 94
Mean 58.05
Std Dev 0
pull1D
Entries 94
Mean −0.01163
Std Dev 0.9008

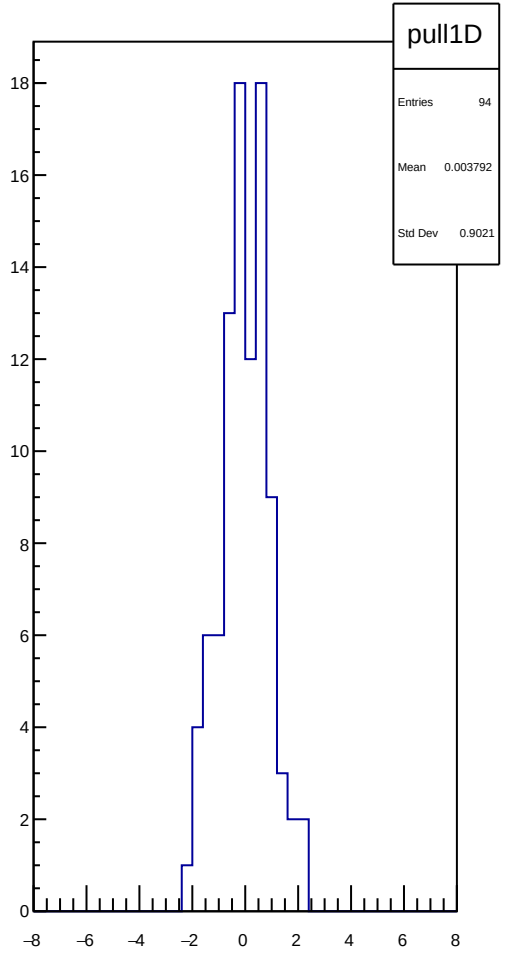

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 3.671e+04 / 93
p0 115.9 ± 0.08822
170
160
150
140
130
120
110
100
90

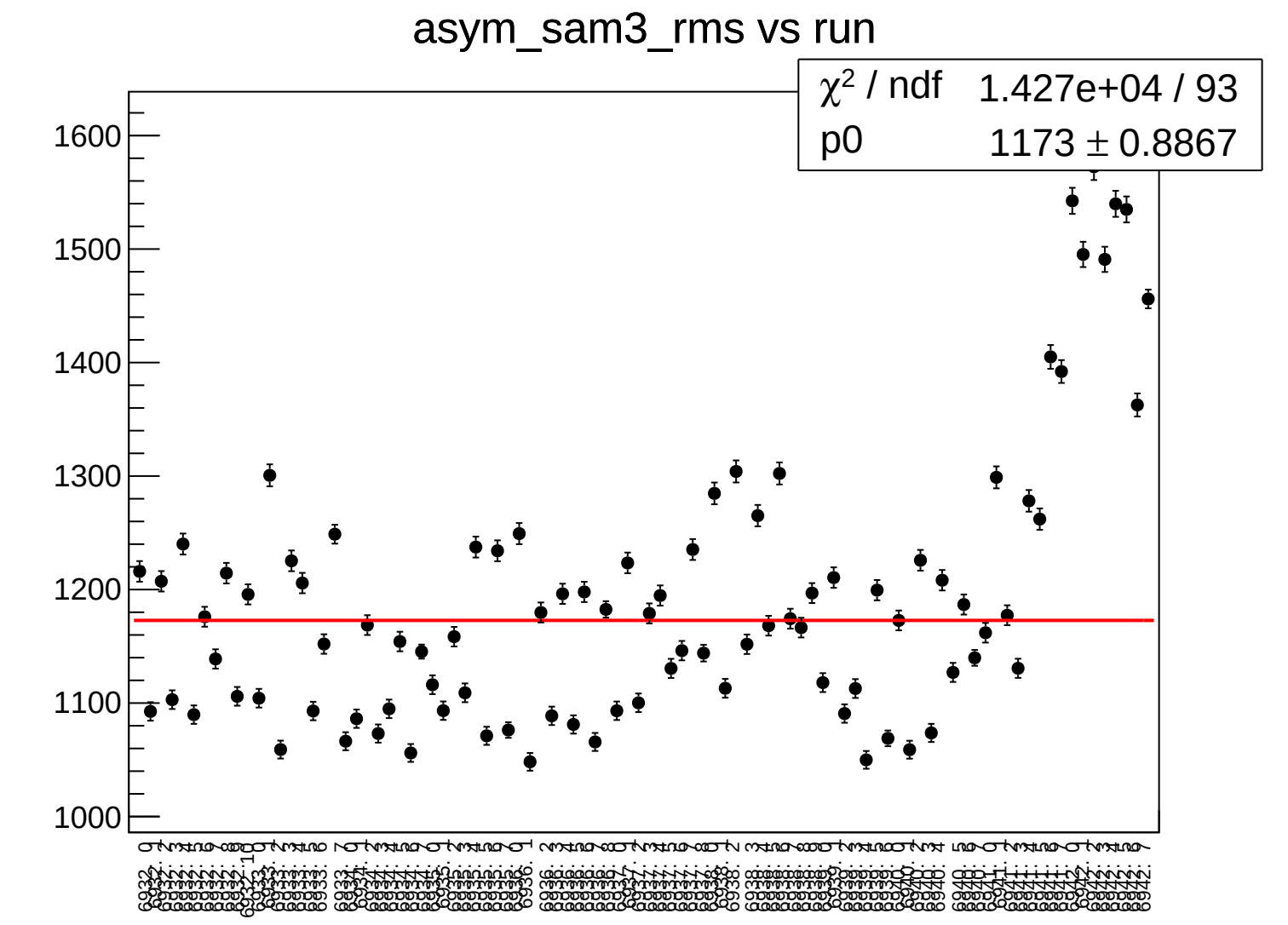

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 76.06 / 93
p0 −7.93 ± 1189
pull
Entries 94
Mean 452.5
Std Dev 0

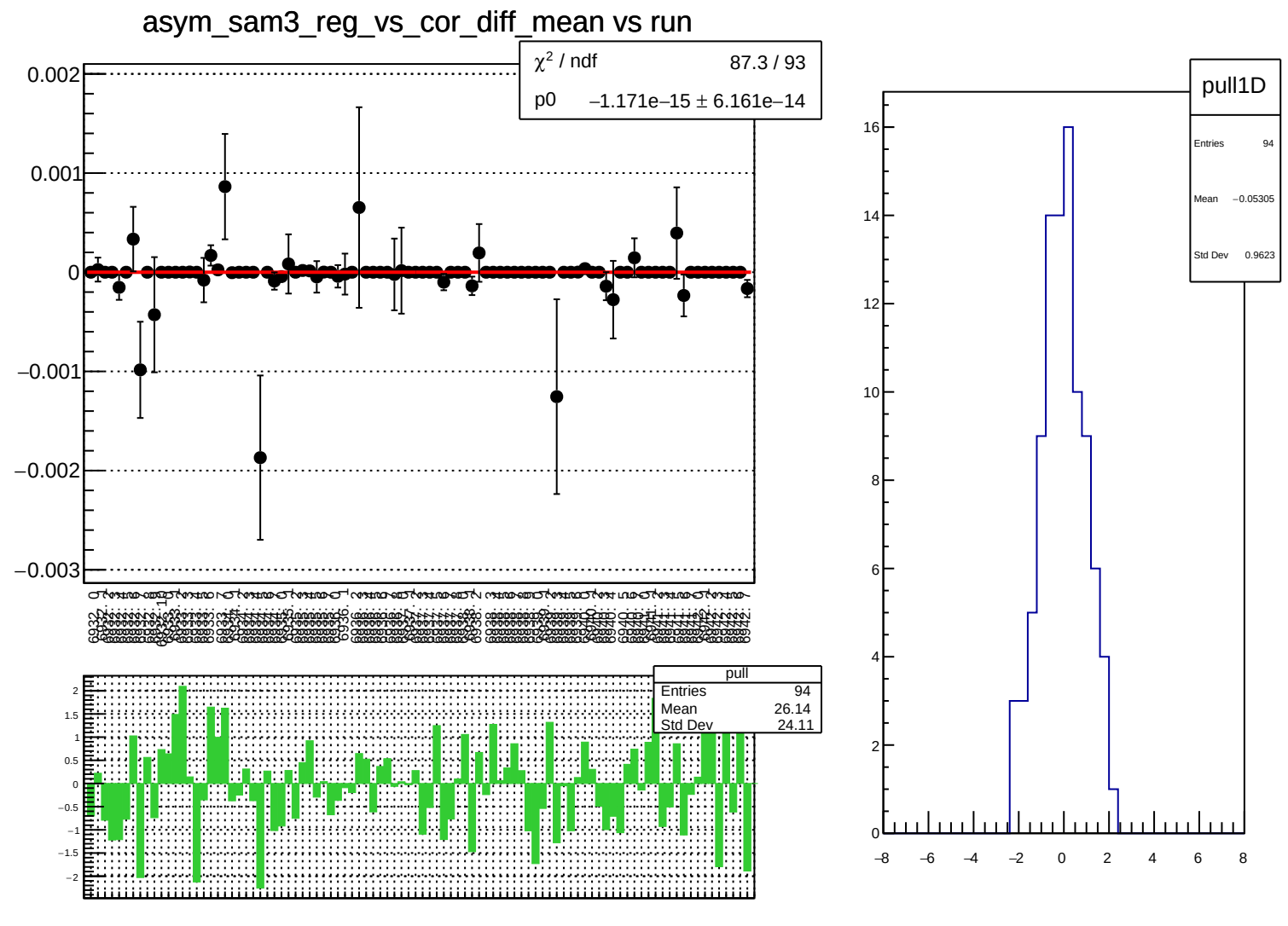

pull1D
Entries 94
Mean −0.003787
Std Dev 0.8995

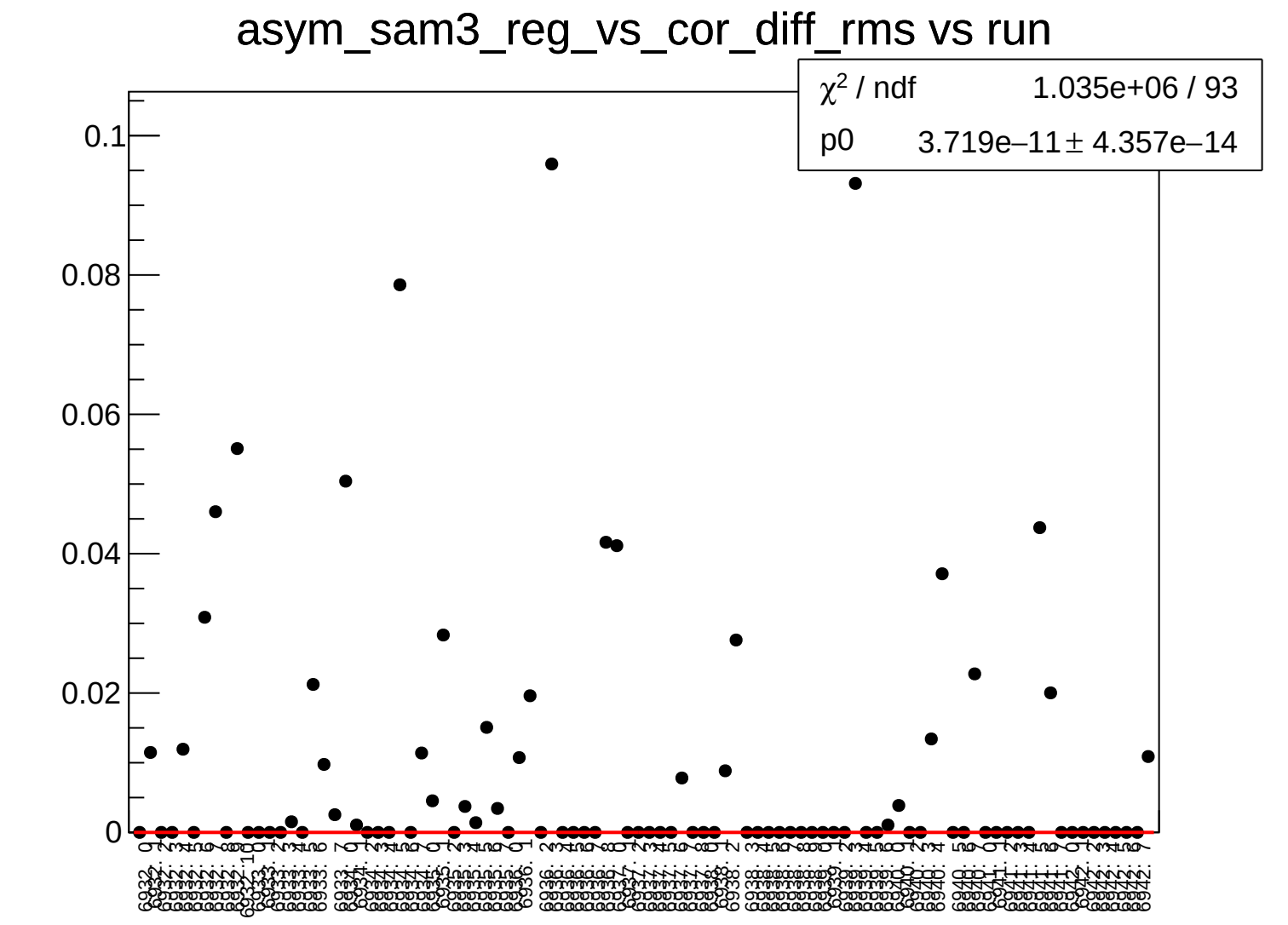

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 1.312e+04 / 93
p0 1112 ± 0.8405
1500
1400
1300
1200
1100
1000

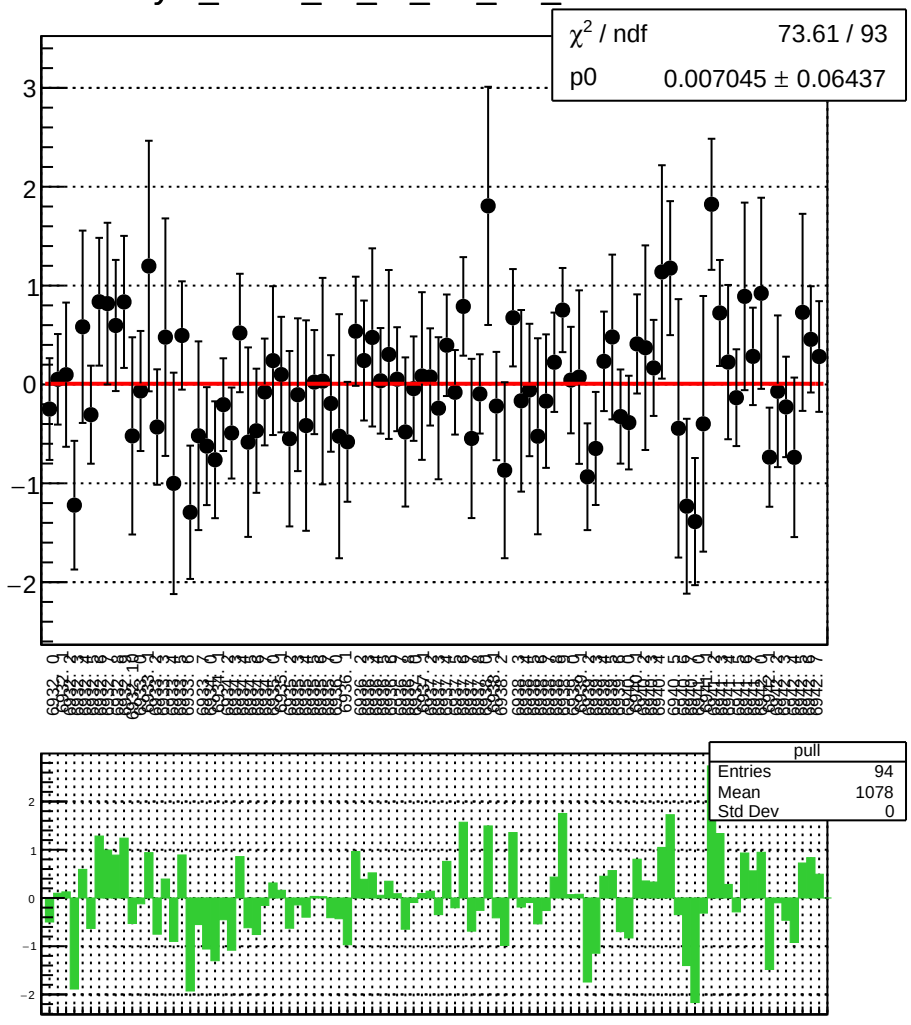

asym_sam3_mean vs run
χ² / ndf 76.5 / 93
p0 −188.2 ± 1254
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 416.1
Std Dev 0
2
1
0
−1
−2

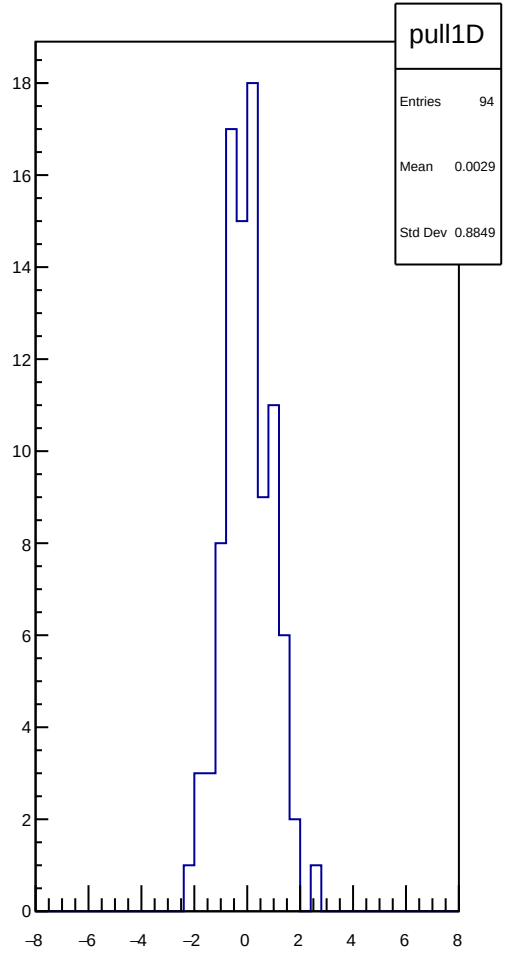

pull1D
Entries 94
Mean 0.003792
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

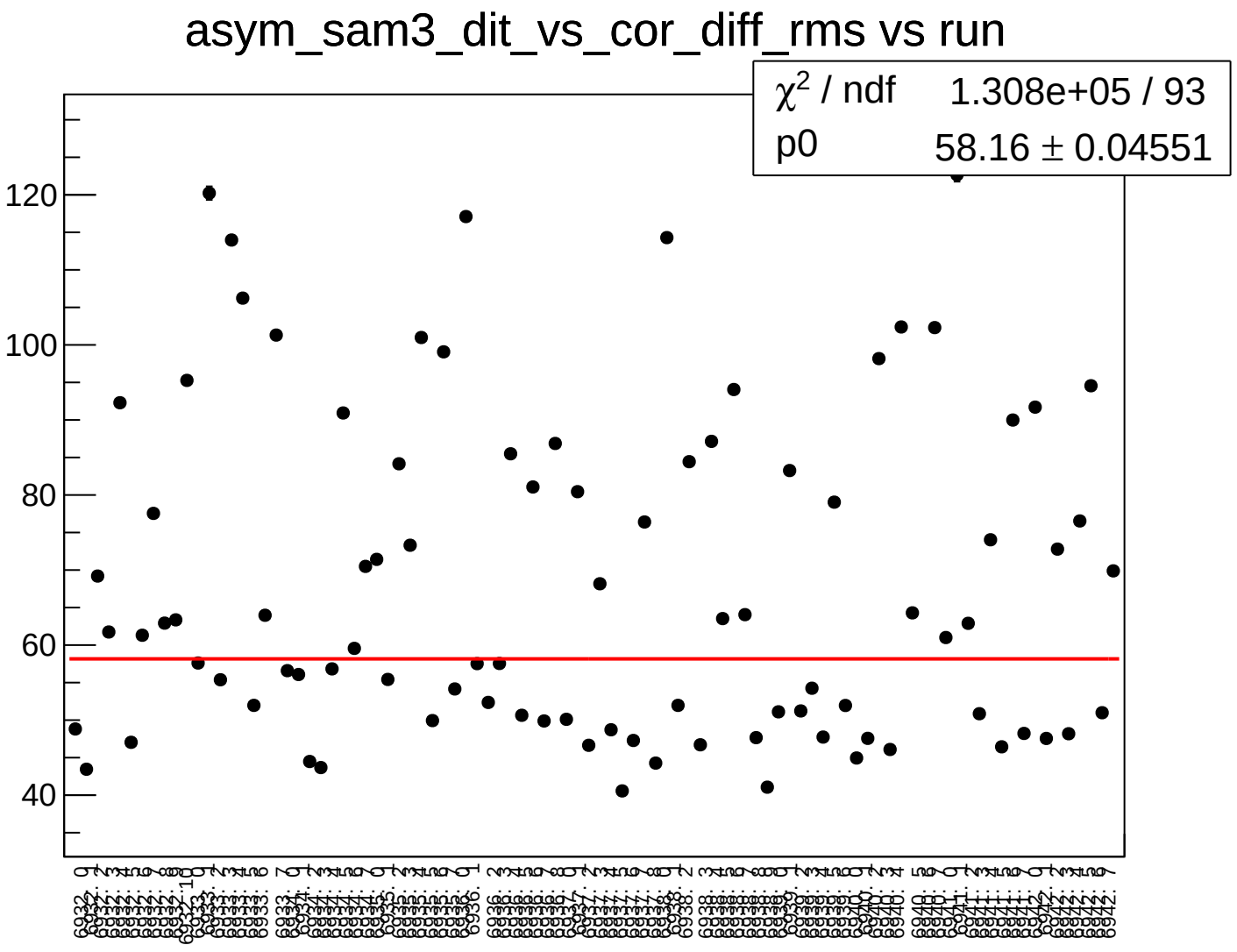

asym_sam3_rms vs run
χ² / ndf 1.427e+04 / 93
p0 1173 ± 0.8867
1600
1500
1400
1300
1200
1100
1000

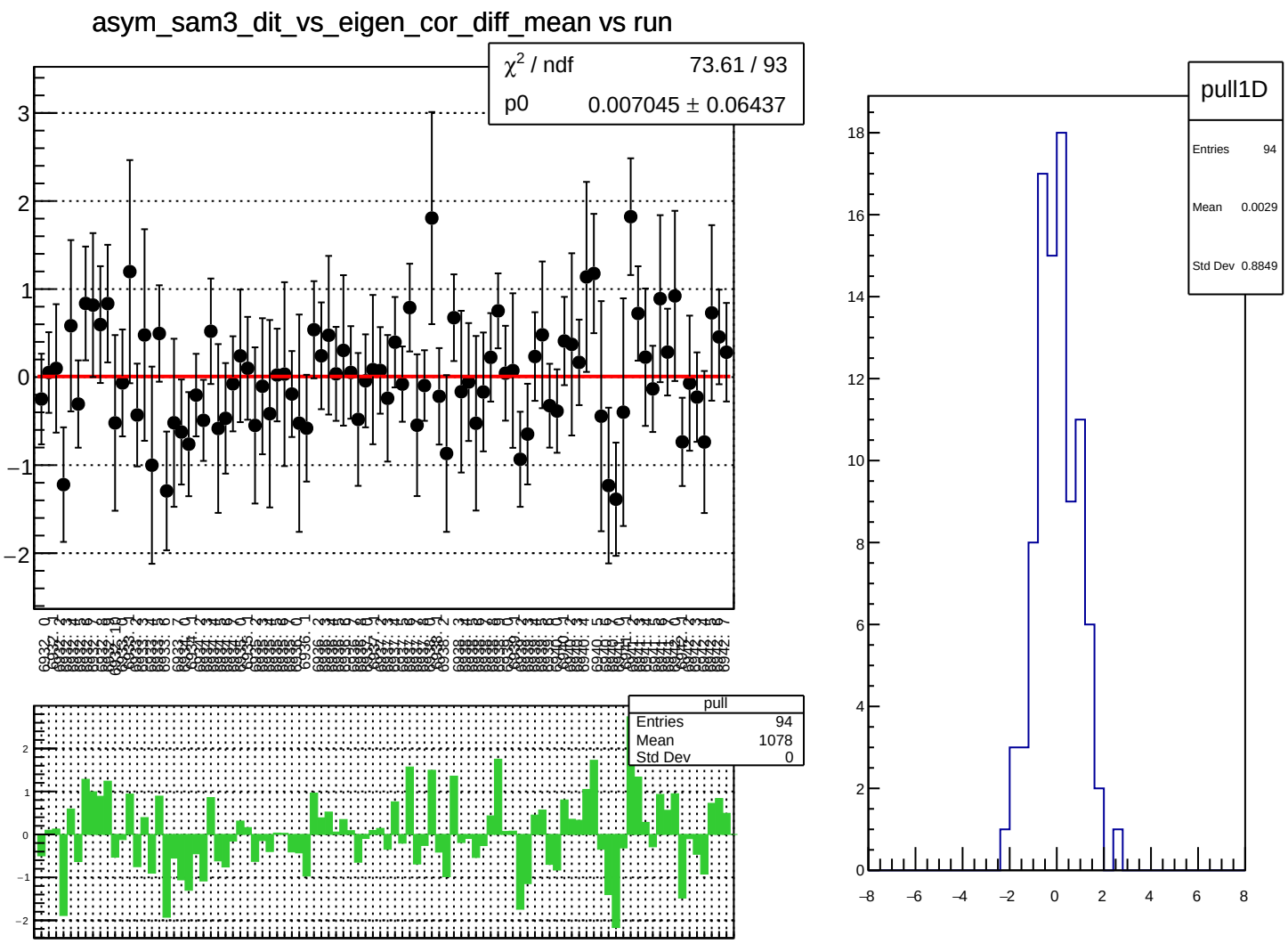

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 93
p0 −1.171e−15 ± 6.161e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 26.14
Std Dev 24.11
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.05305
Std Dev 0.9623
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

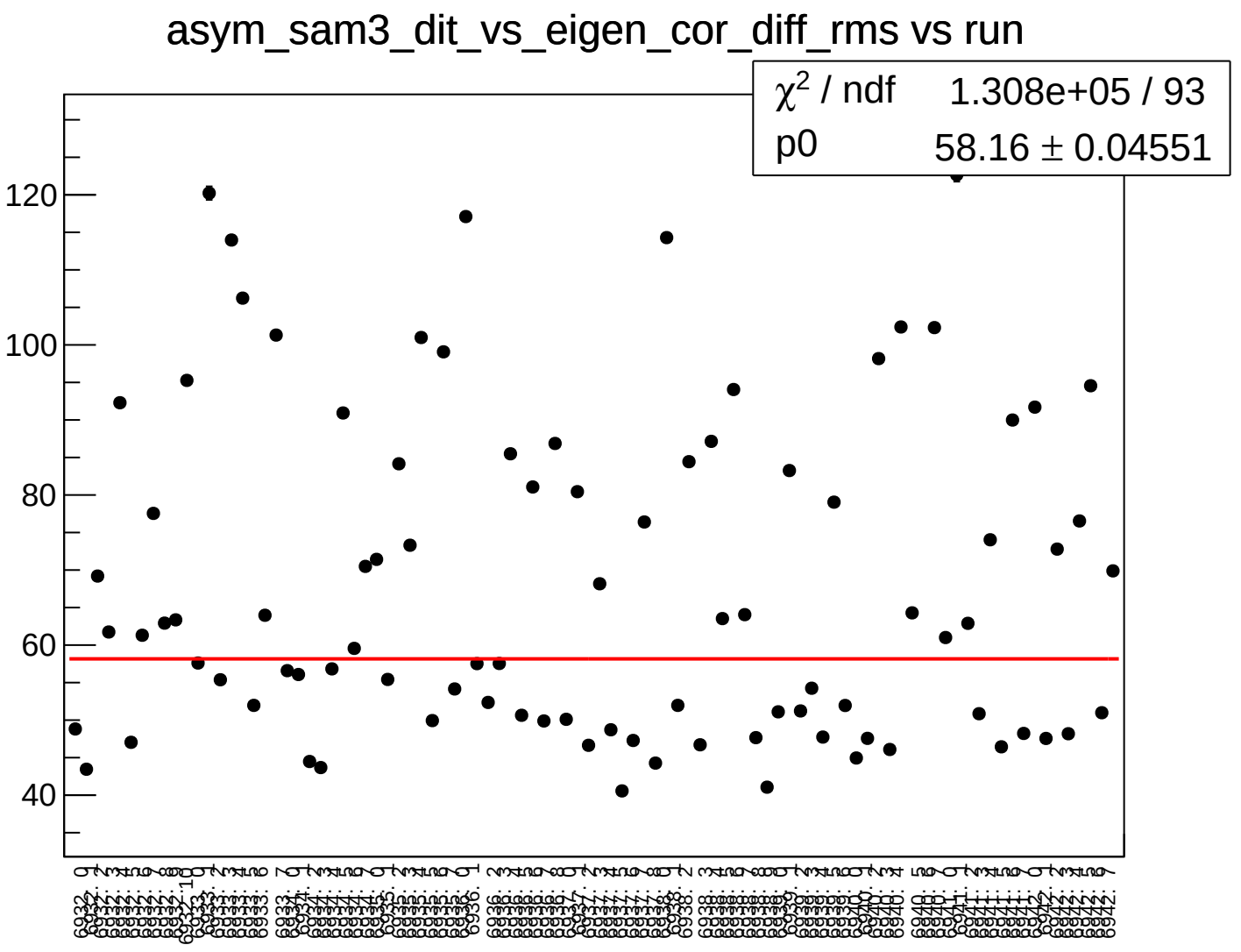

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 93
p0 3.719e−11 ± 4.357e−14
0.1
0.08
0.06
0.04
0.02
0

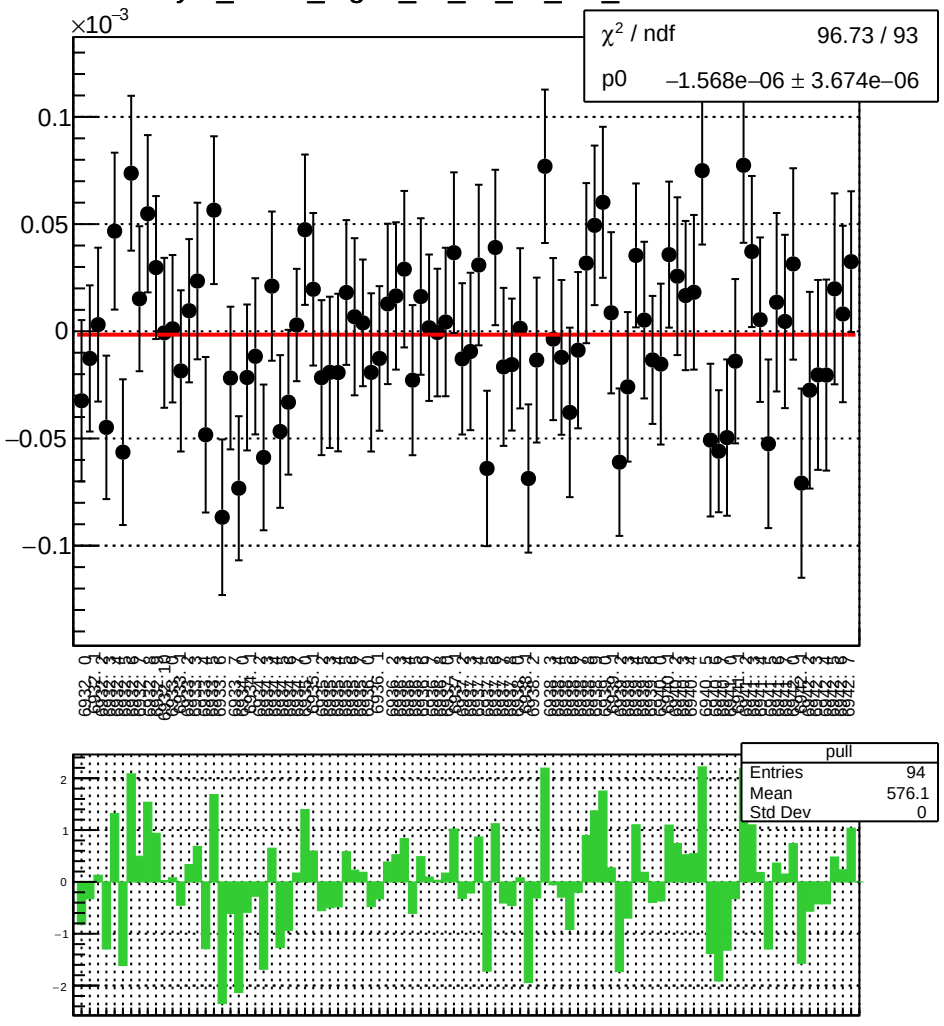

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 73.61 / 93
p0 0.007045 ± 0.06437
pull
Entries 94
Mean 1078
Std Dev 0

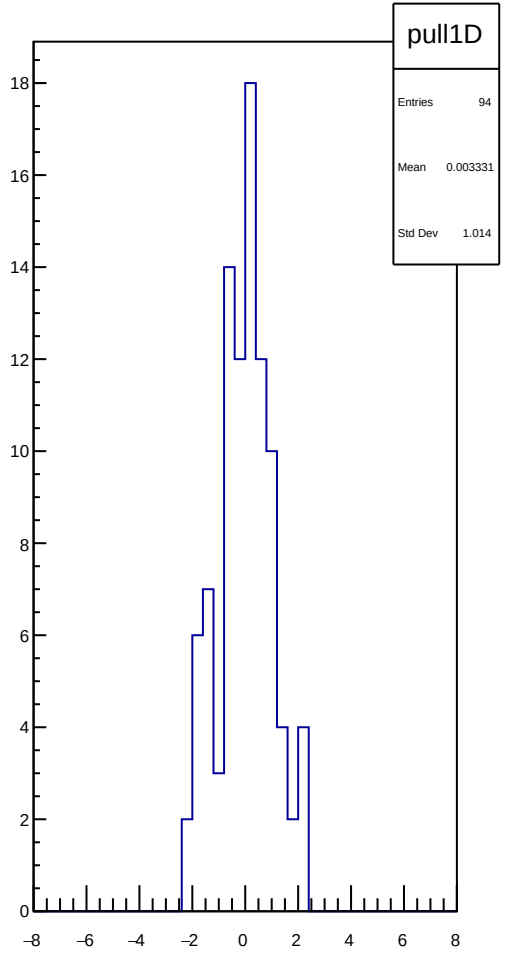

pull1D
Entries 94
Mean 0.0029
Std Dev 0.8849

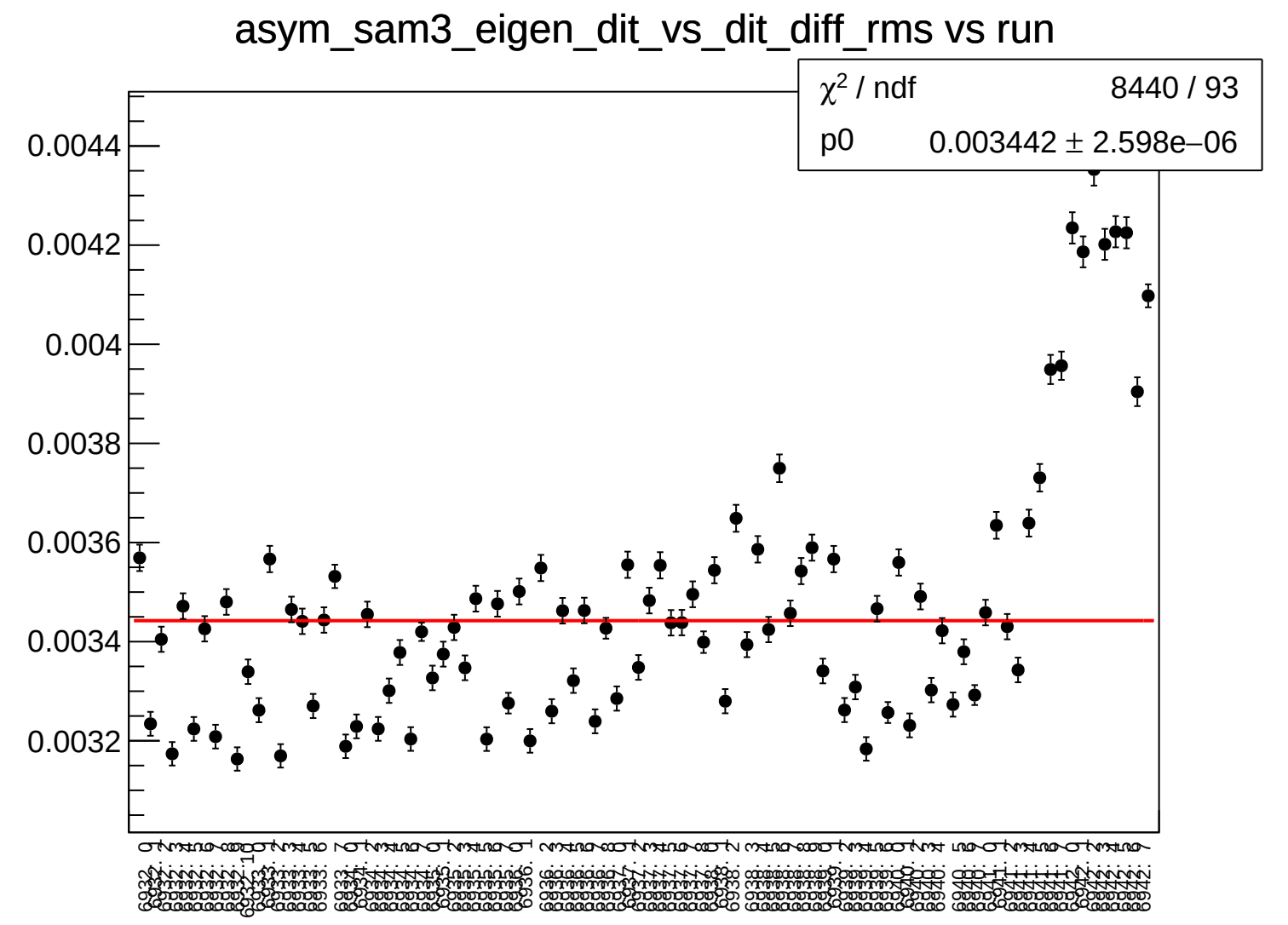

asym_sam3_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.308e+05 / 93
p0 58.16 ± 0.04551
120
100
80
60
40

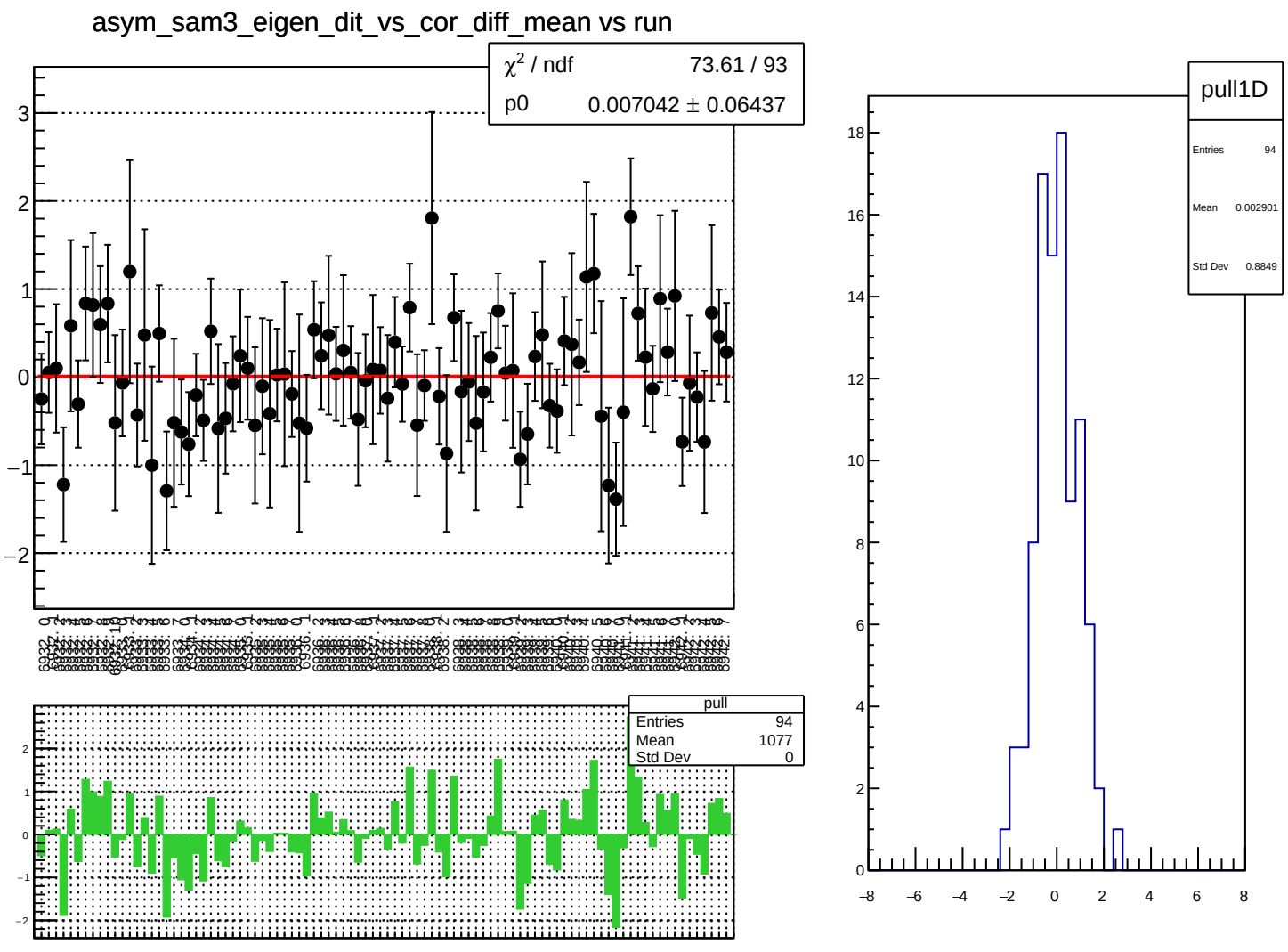

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.61 / 93
p0 0.007045 ± 0.06437
pull
Entries 94
Mean 1078
Std Dev 0
pull1D
Entries 94
Mean 0.0029
Std Dev 0.8849

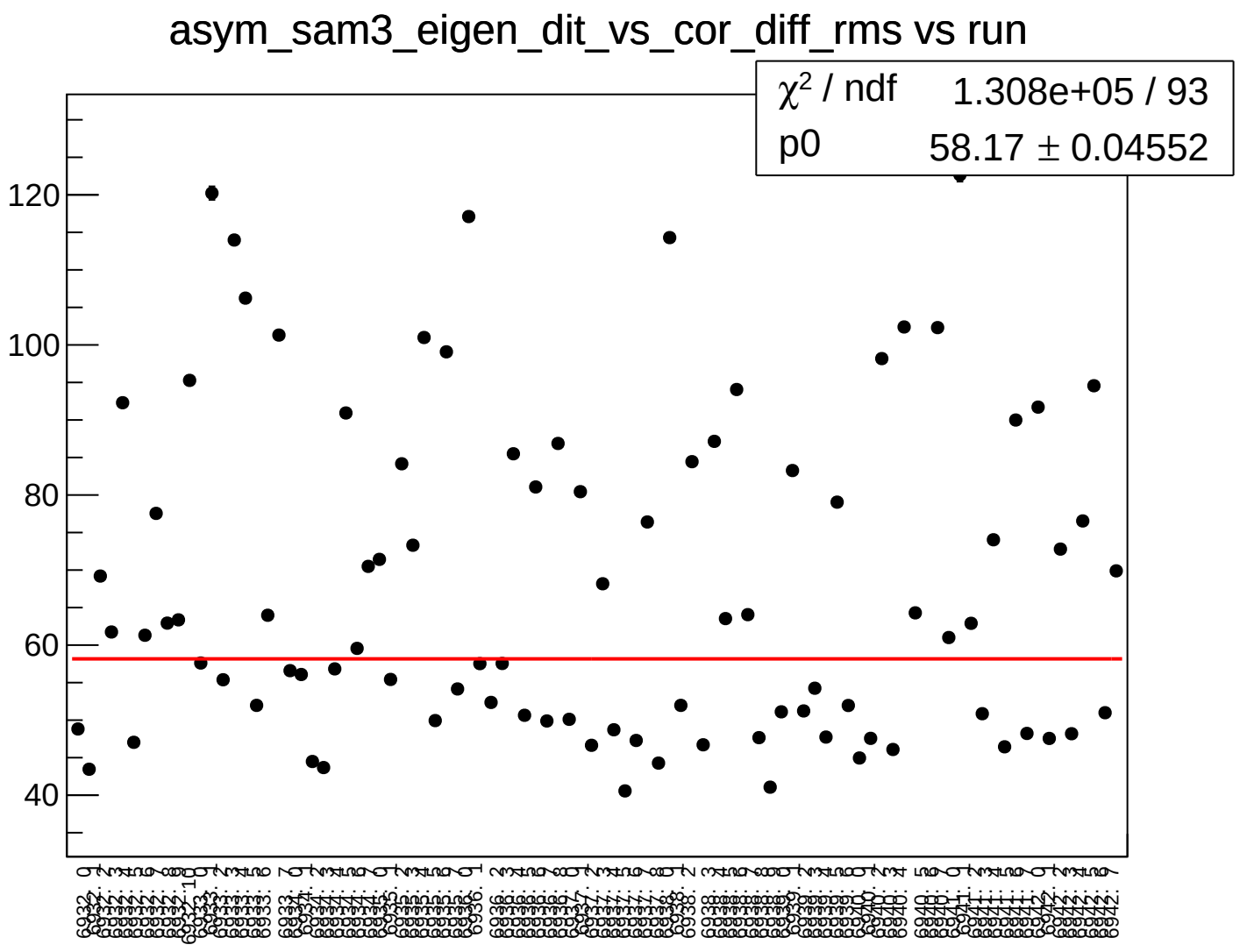

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.308e+05 / 93
p0 58.16 ± 0.04551
120
100
80
60
40

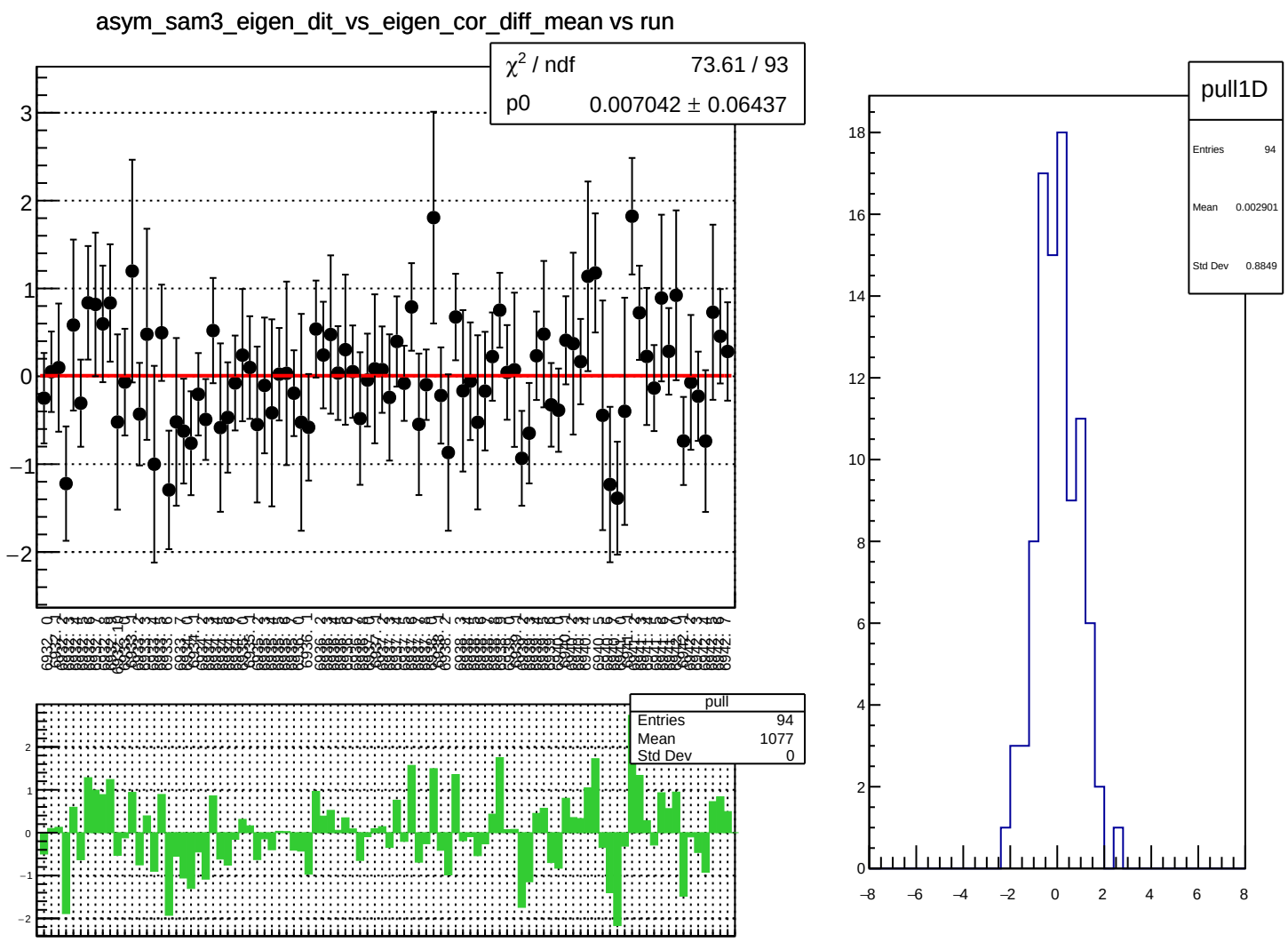

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.73 / 93
p0 −1.568e−06 ± 3.674e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 576.1
Std Dev 0
2
1
0
−1
−2

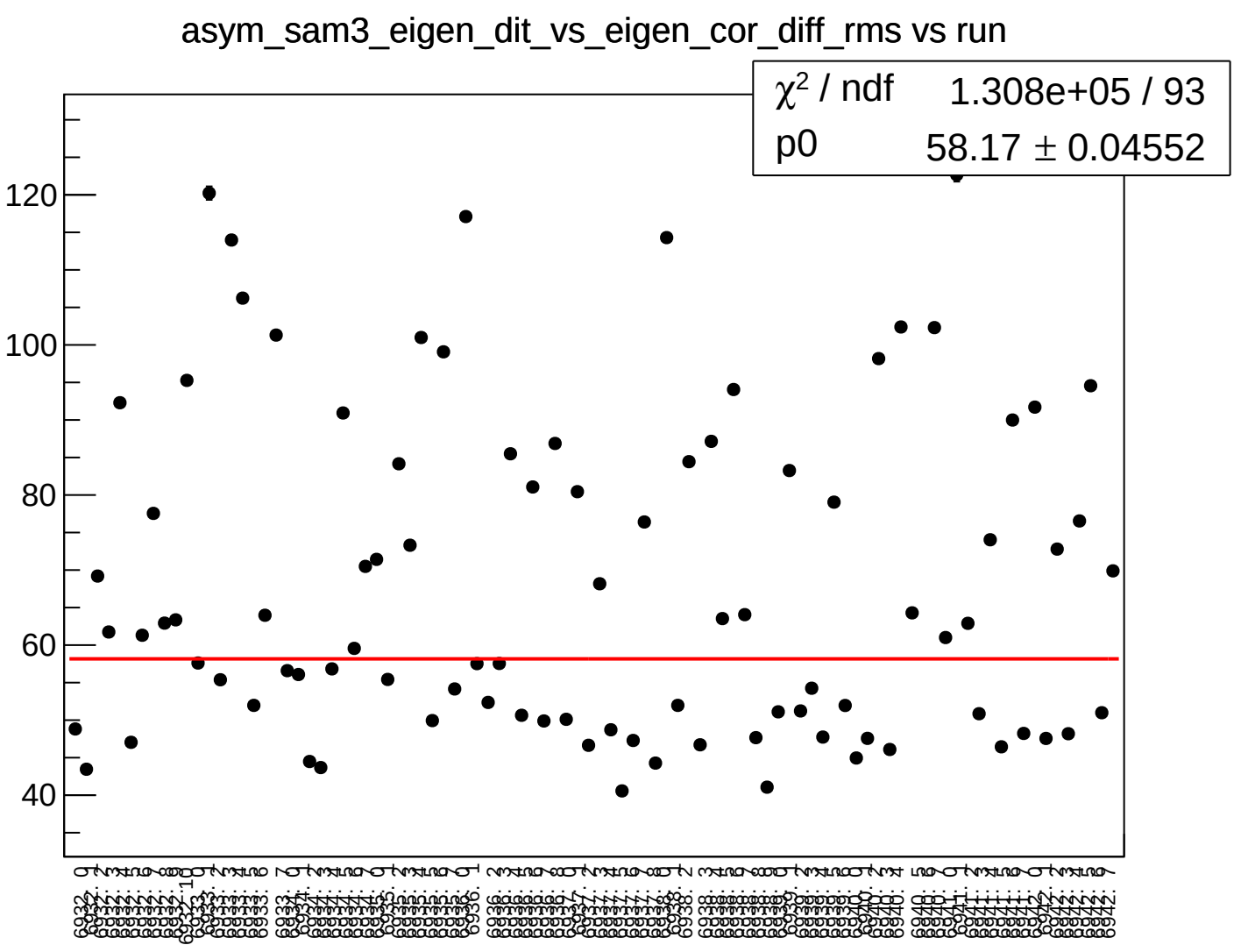

pull1D
Entries 94
Mean 0.003331
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

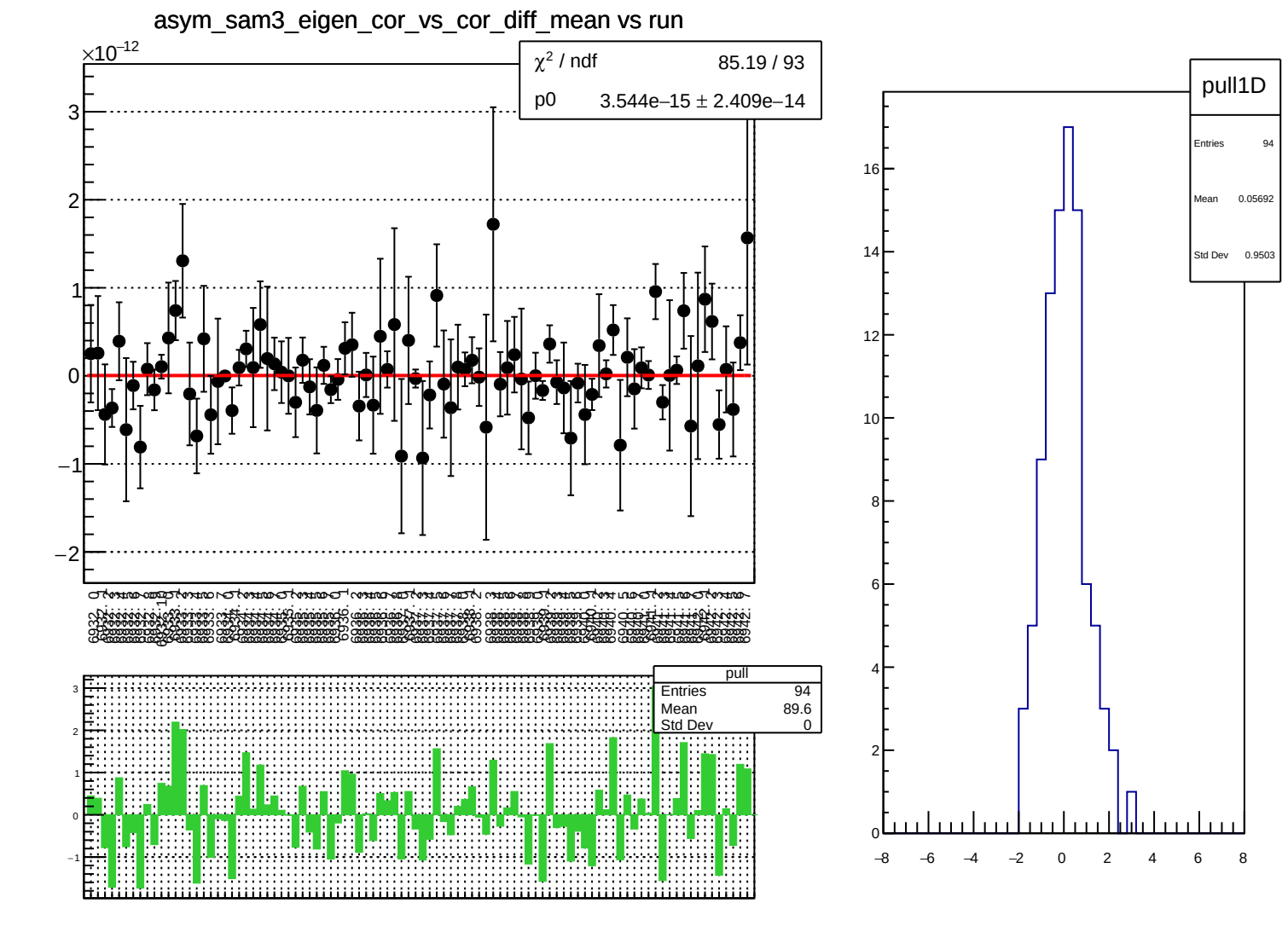

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8440 / 93
p0 0.003442 ± 2.598e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

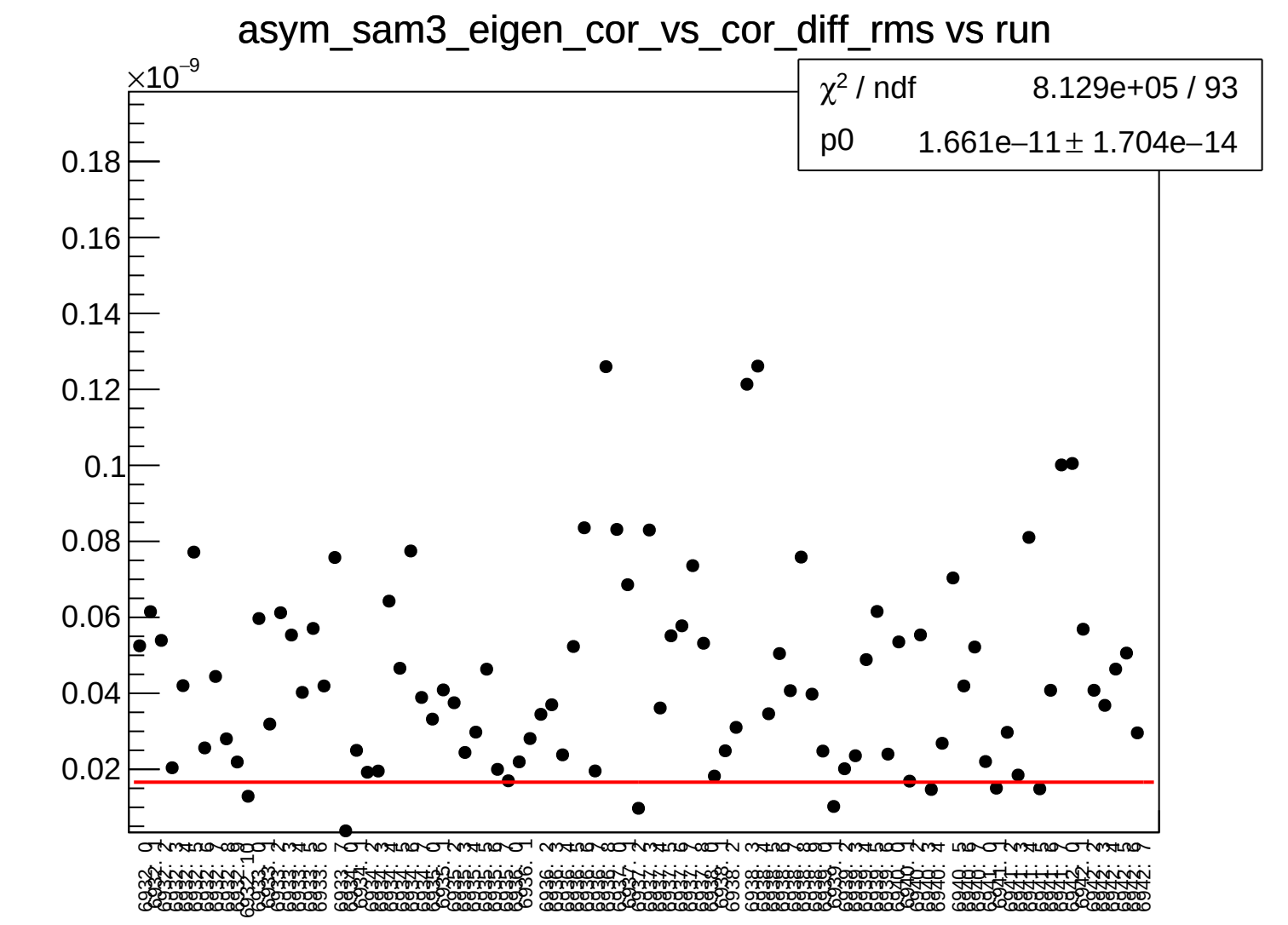

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.61 / 93
p0 0.007042 ± 0.06437
pull
Entries 94
Mean 1077
Std Dev 0
pull1D
Entries 94
Mean 0.002901
Std Dev 0.8849

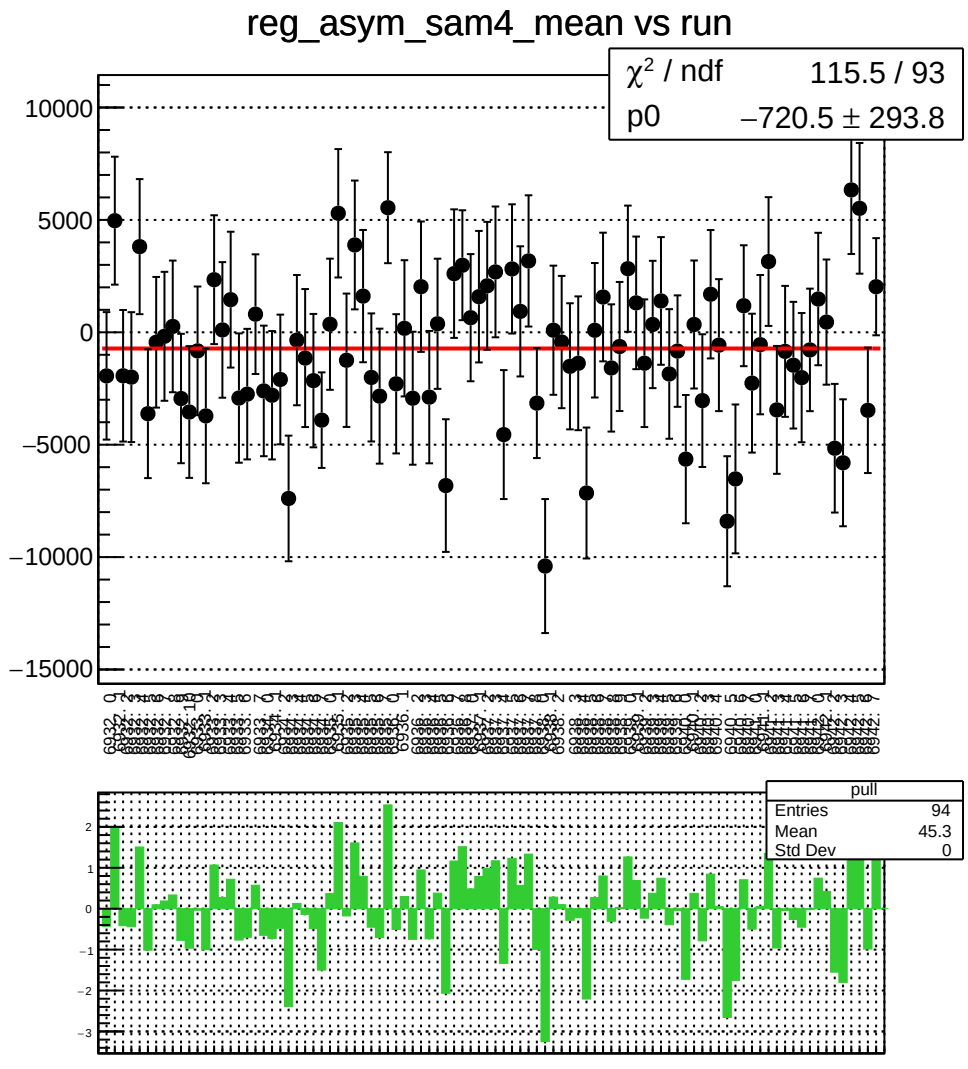

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 93
p0 58.17 ± 0.04552
120
100
80
60
40

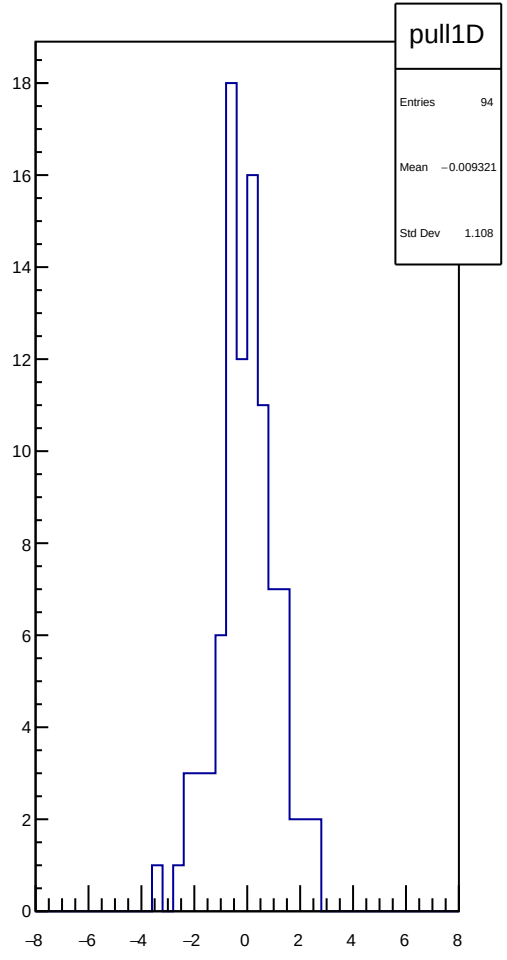

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.61 / 93
p0 0.007042 ± 0.06437
pull
Entries 94
Mean 1077
Std Dev 0
pull1D
Entries 94
Mean 0.002901
Std Dev 0.8849

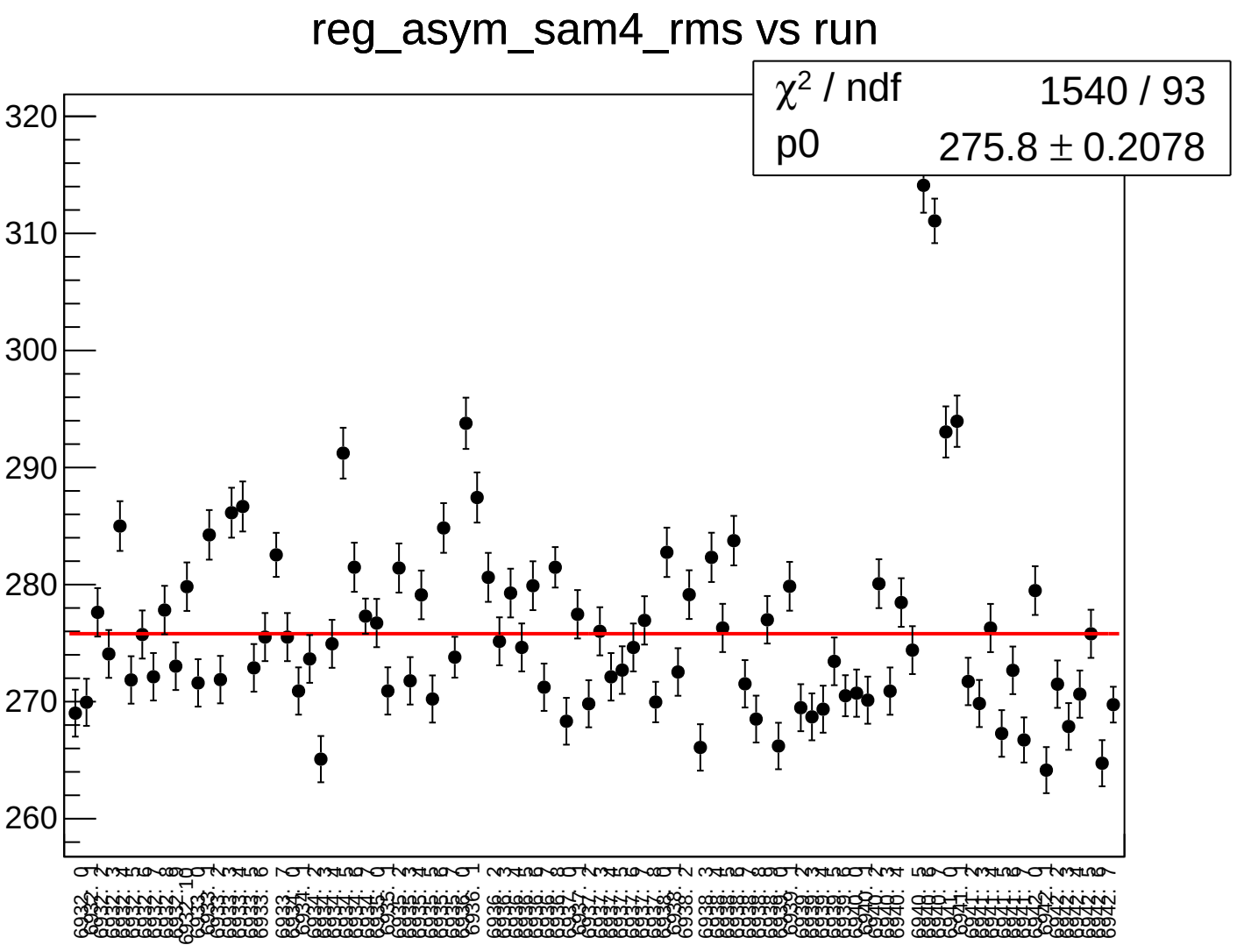

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.308e+05 / 93
p0 58.17 ± 0.04552
120
100
80
60
40

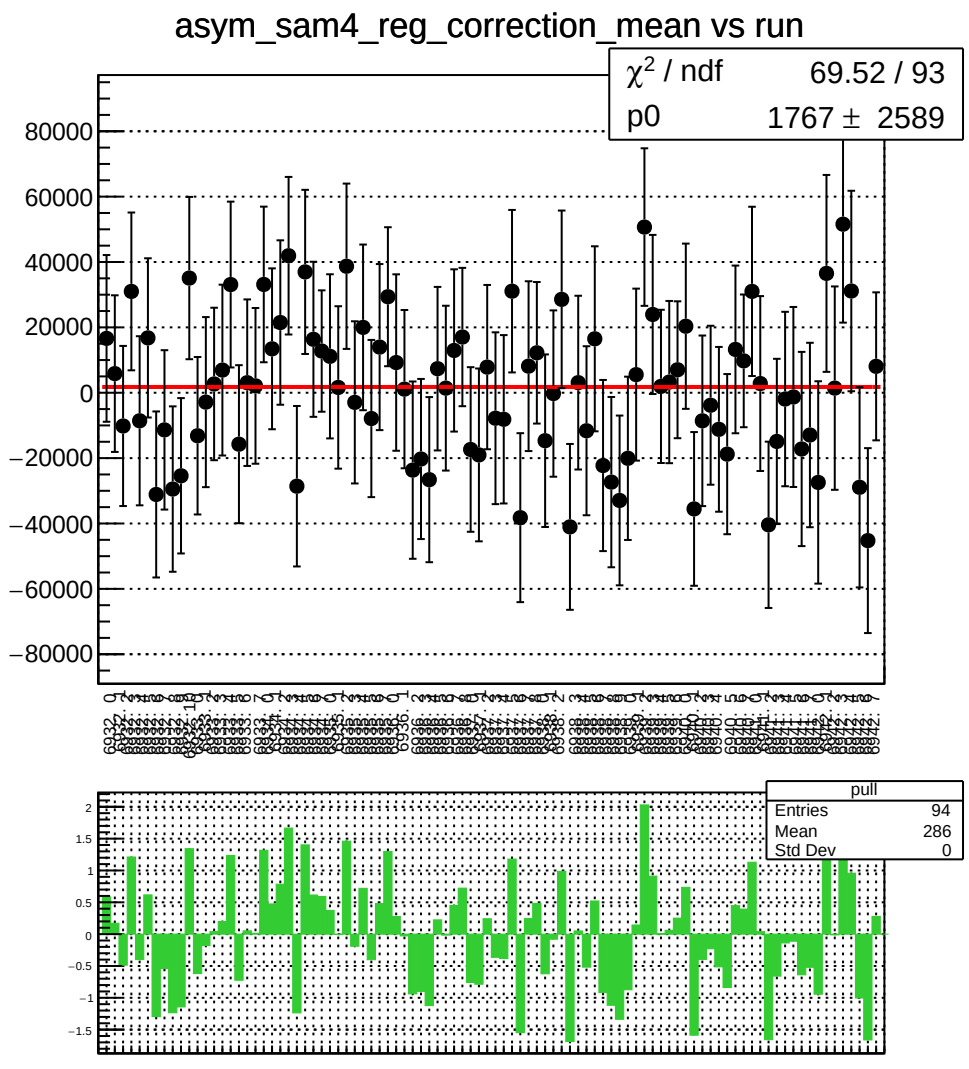

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.19 / 93
p0 3.544e−15 ± 2.409e−14
pull
Entries 94
Mean 89.6
Std Dev 0
pull1D
Entries 94
Mean 0.05692
Std Dev 0.9503

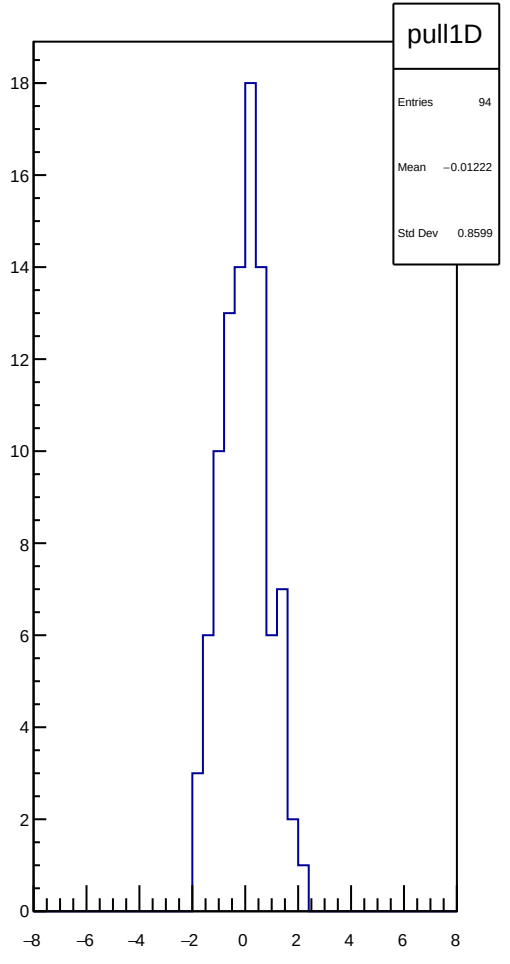

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.129e+05 / 93
p0 1.661e−11 ± 1.704e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

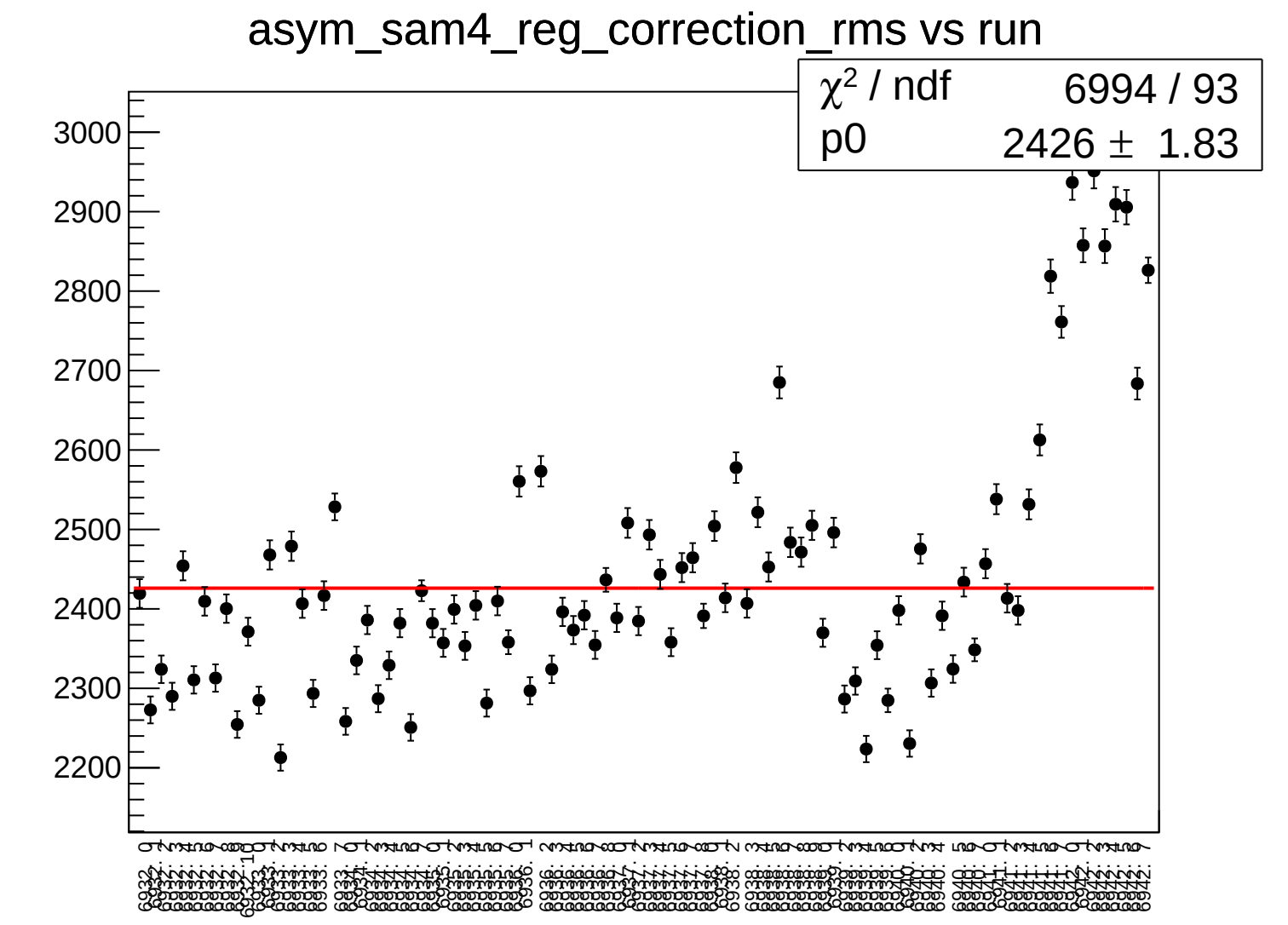

reg_asym_sam4_mean vs run
χ² / ndf 115.5 / 93
p0 −720.5 ± 293.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 45.3
Std Dev 0
2
1
0
−1
−2
−3

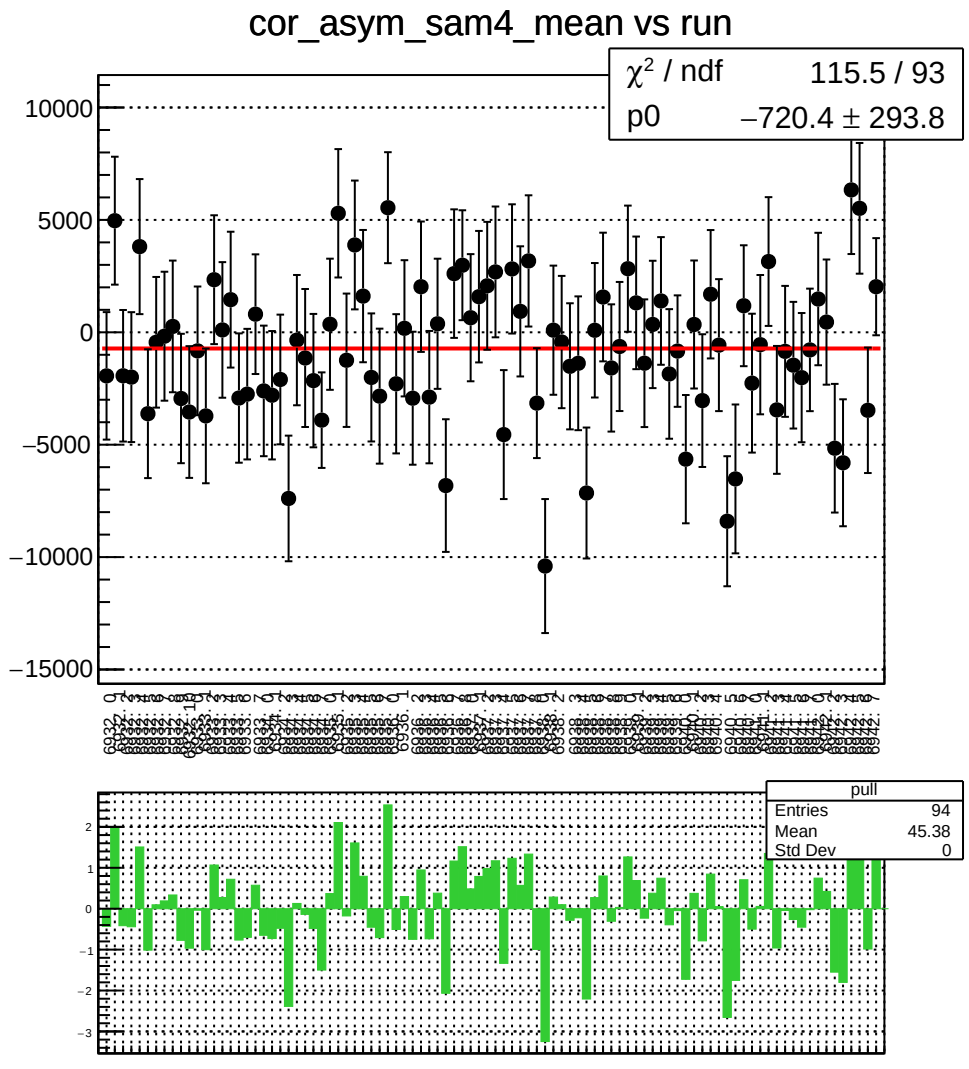

pull1D
Entries 94
Mean −0.009321
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

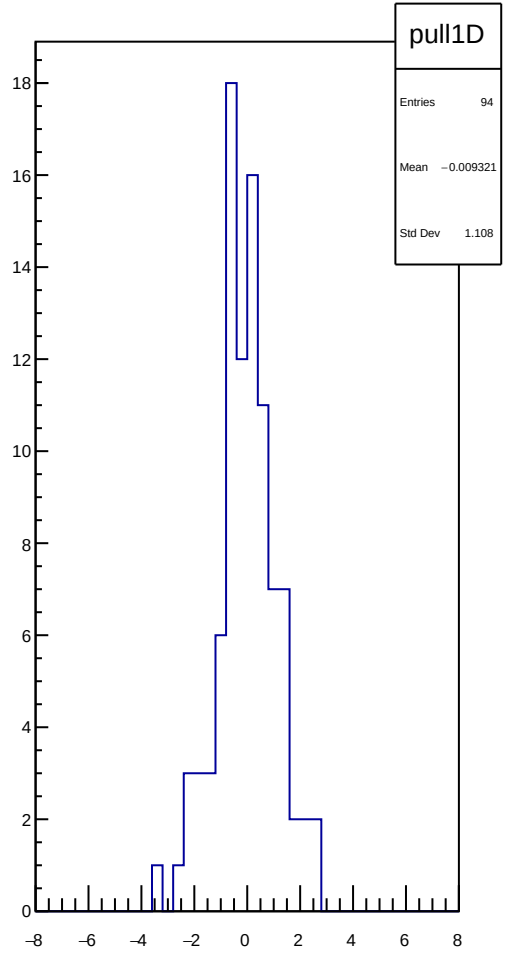

reg_asym_sam4_rms vs run
χ² / ndf 1540 / 93
p0 275.8 ± 0.2078
320
310
300
290
280
270
260

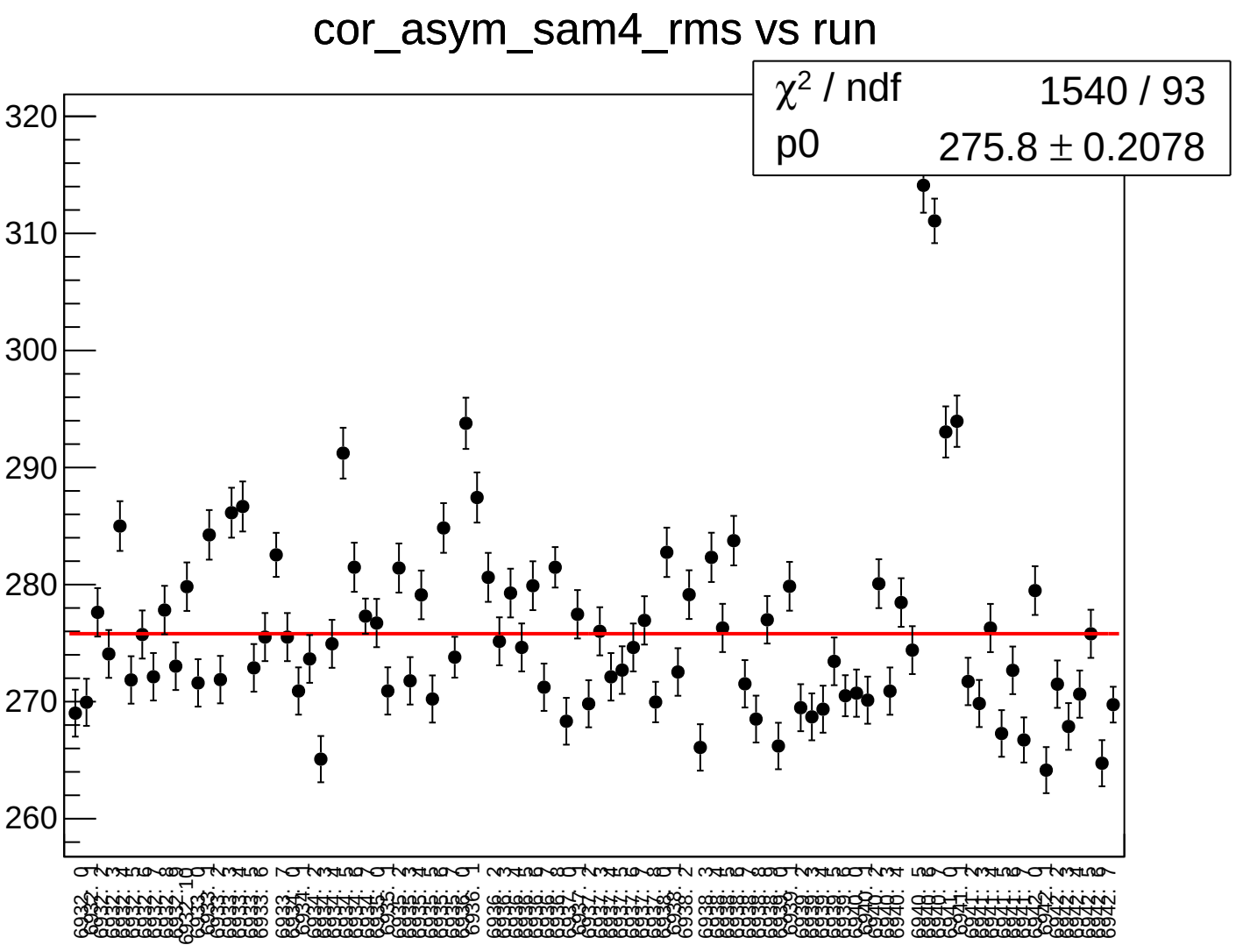

asym_sam4_reg_correction_mean vs run
χ² / ndf 69.52 / 93
p0 1767 ± 2589
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 286
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

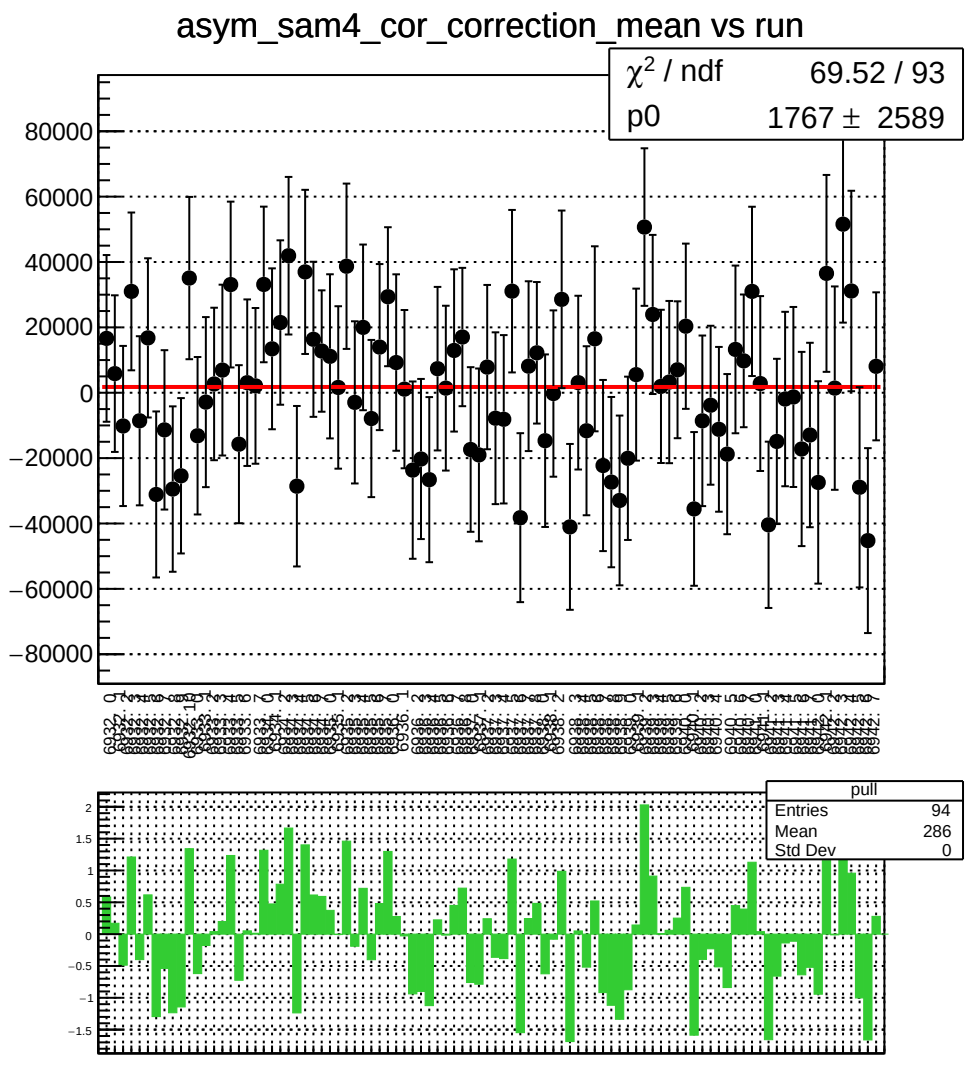

pull1D
Entries 94
Mean −0.01222
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

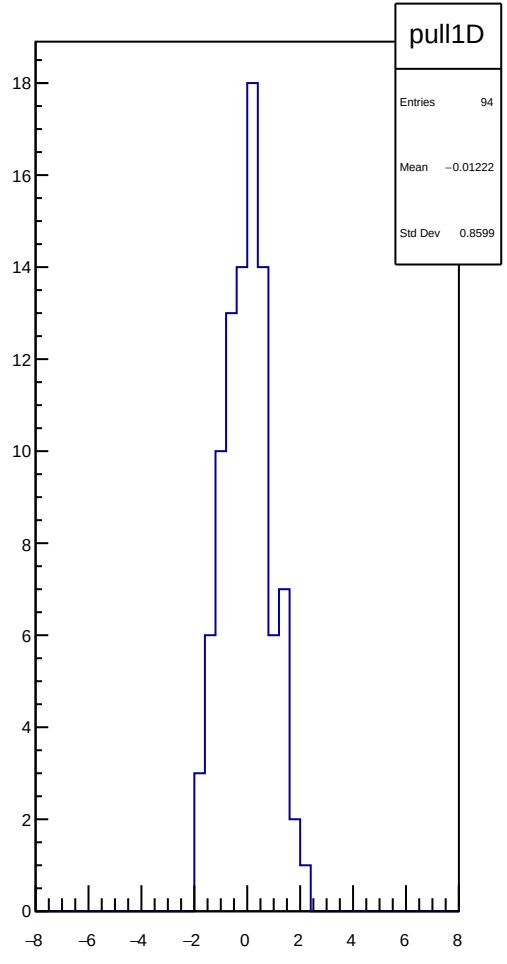

asym_sam4_reg_correction_rms vs run
χ² / ndf 6994 / 93
p0 2426 ± 1.83
3000
2900
2800
2700
2600
2500
2400
2300
2200

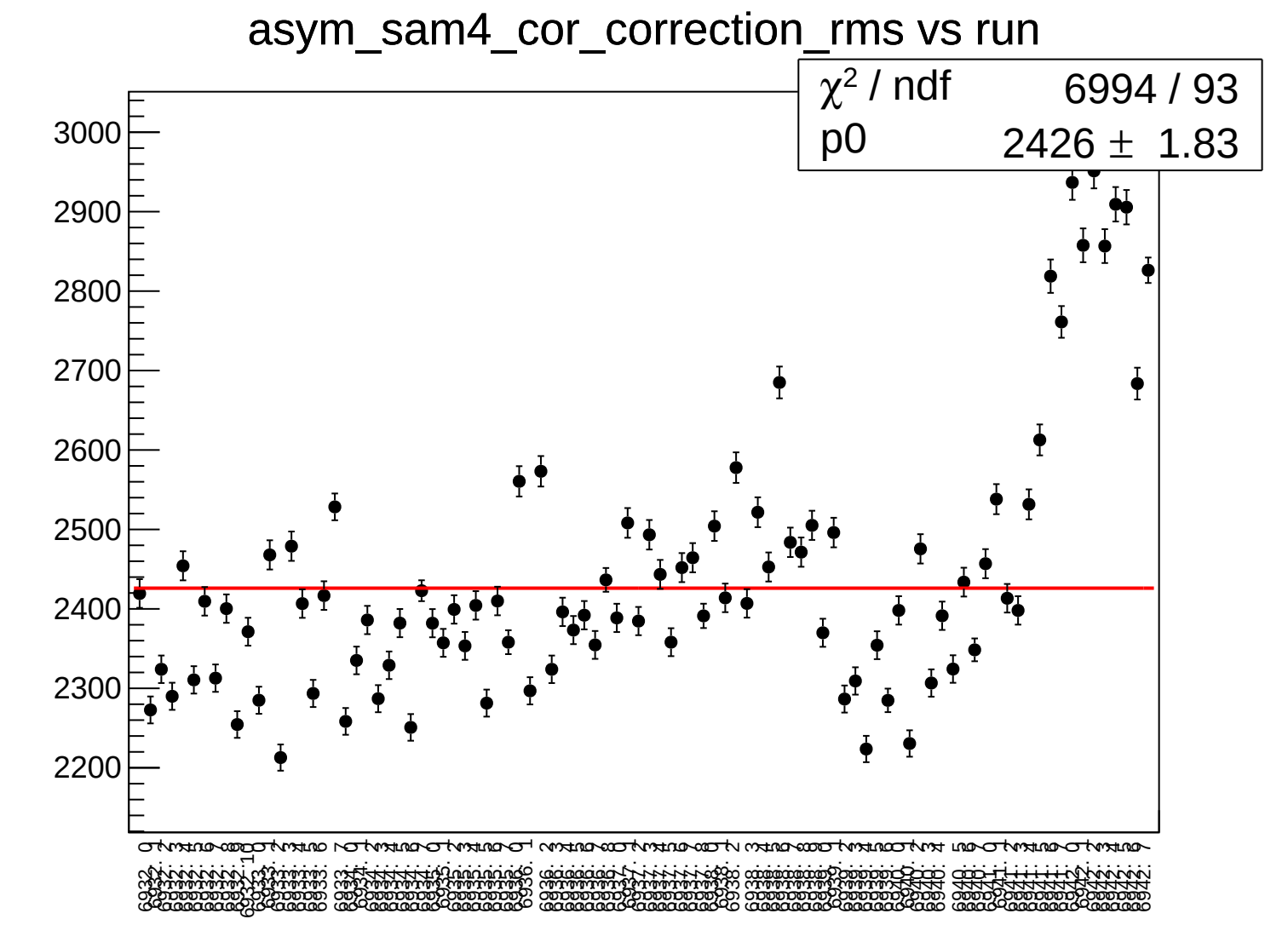

cor_asym_sam4_mean vs run
χ² / ndf 115.5 / 93
p0 −720.4 ± 293.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 45.38
Std Dev 0
2
1
0
−1
−2
−3

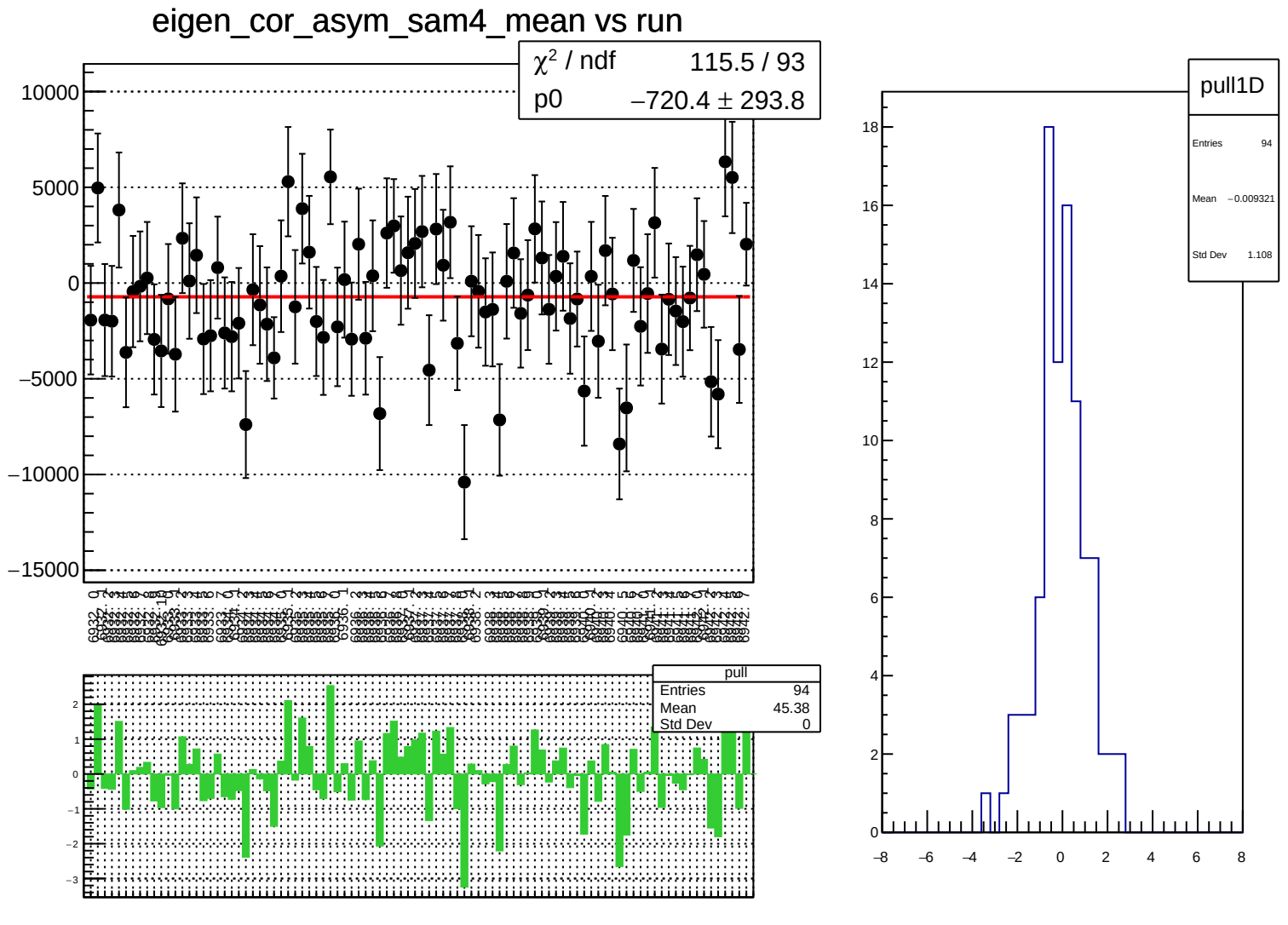

pull1D
Entries 94
Mean −0.009321
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

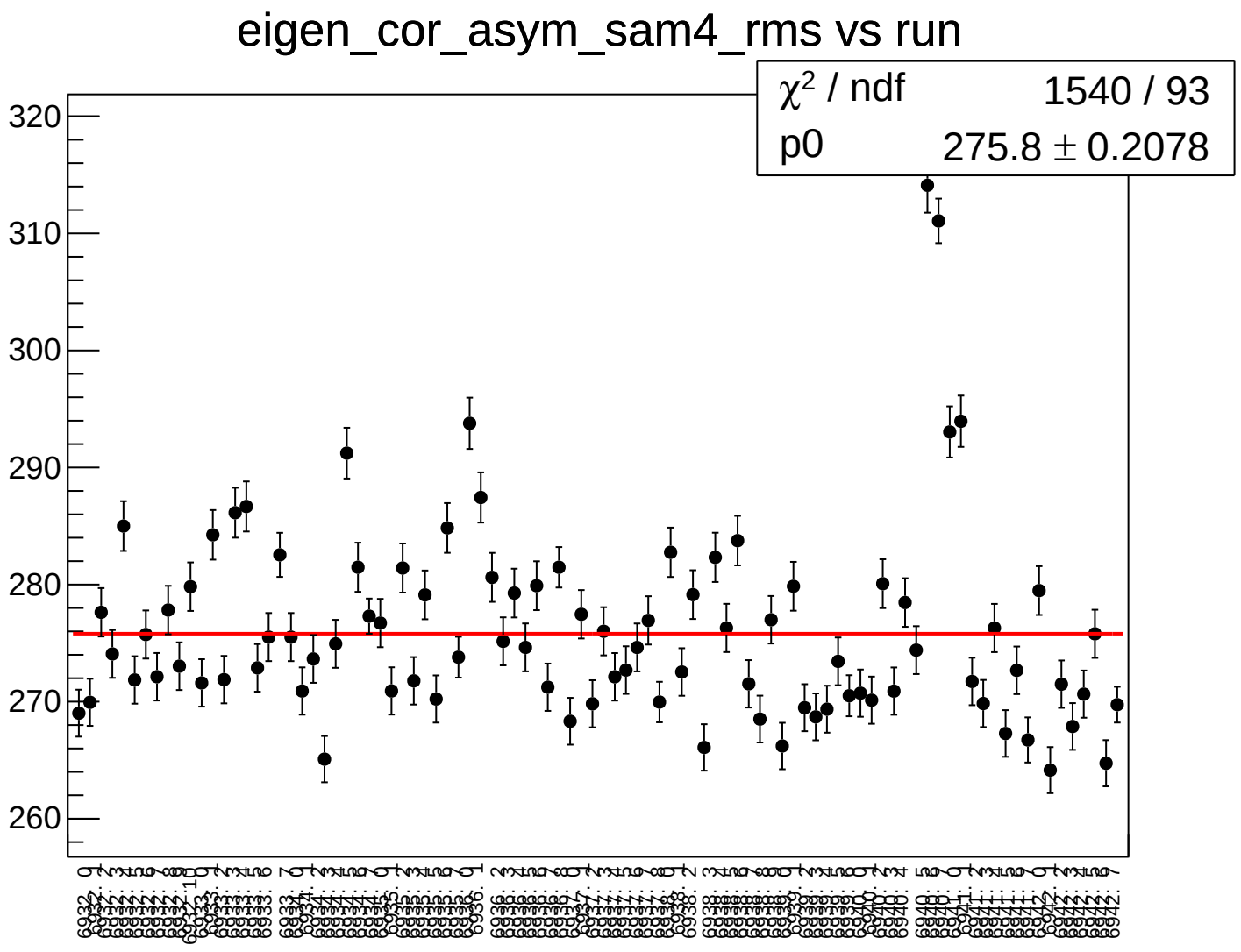

cor_asym_sam4_rms vs run
χ² / ndf 1540 / 93
p0 275.8 ± 0.2078
320
310
300
290
280
270
260

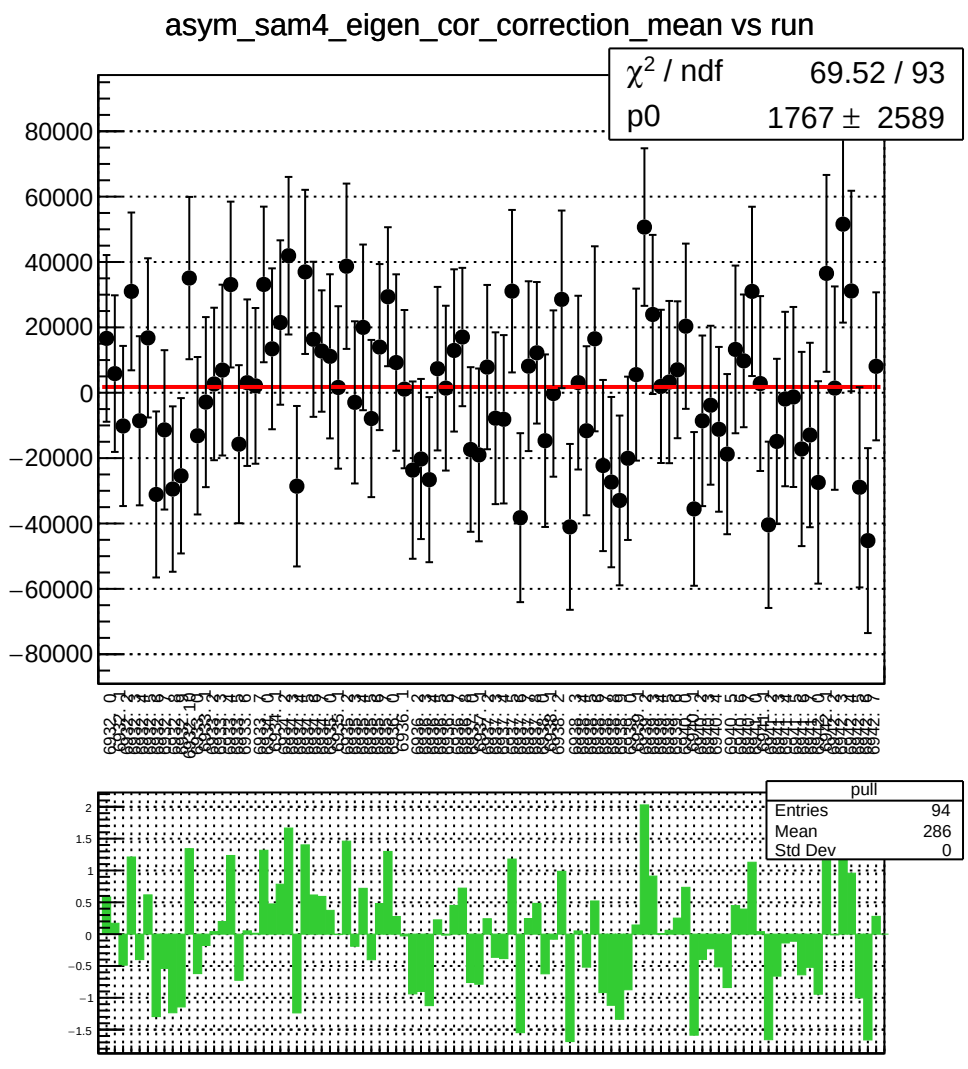

asym_sam4_cor_correction_mean vs run
χ² / ndf 69.52 / 93
p0 1767 ± 2589
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 286
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

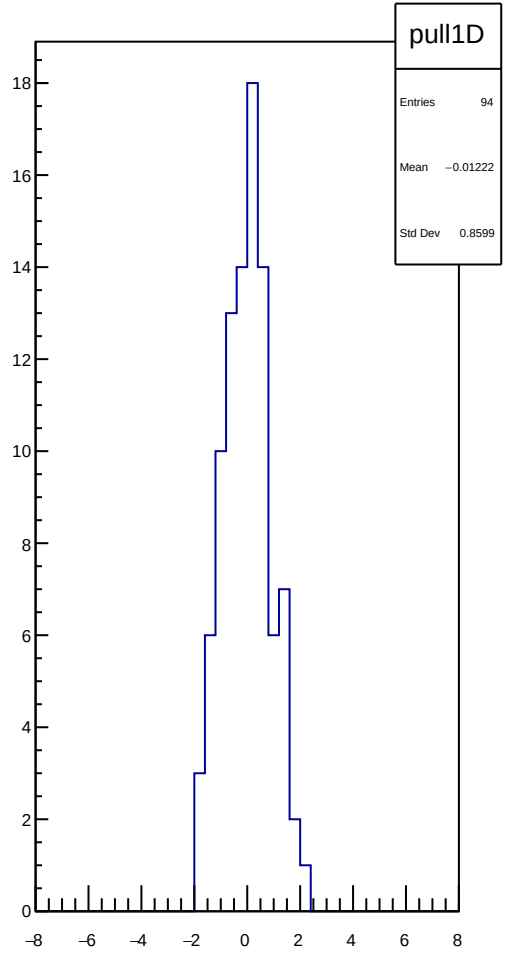

pull1D
Entries 94
Mean −0.01222
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

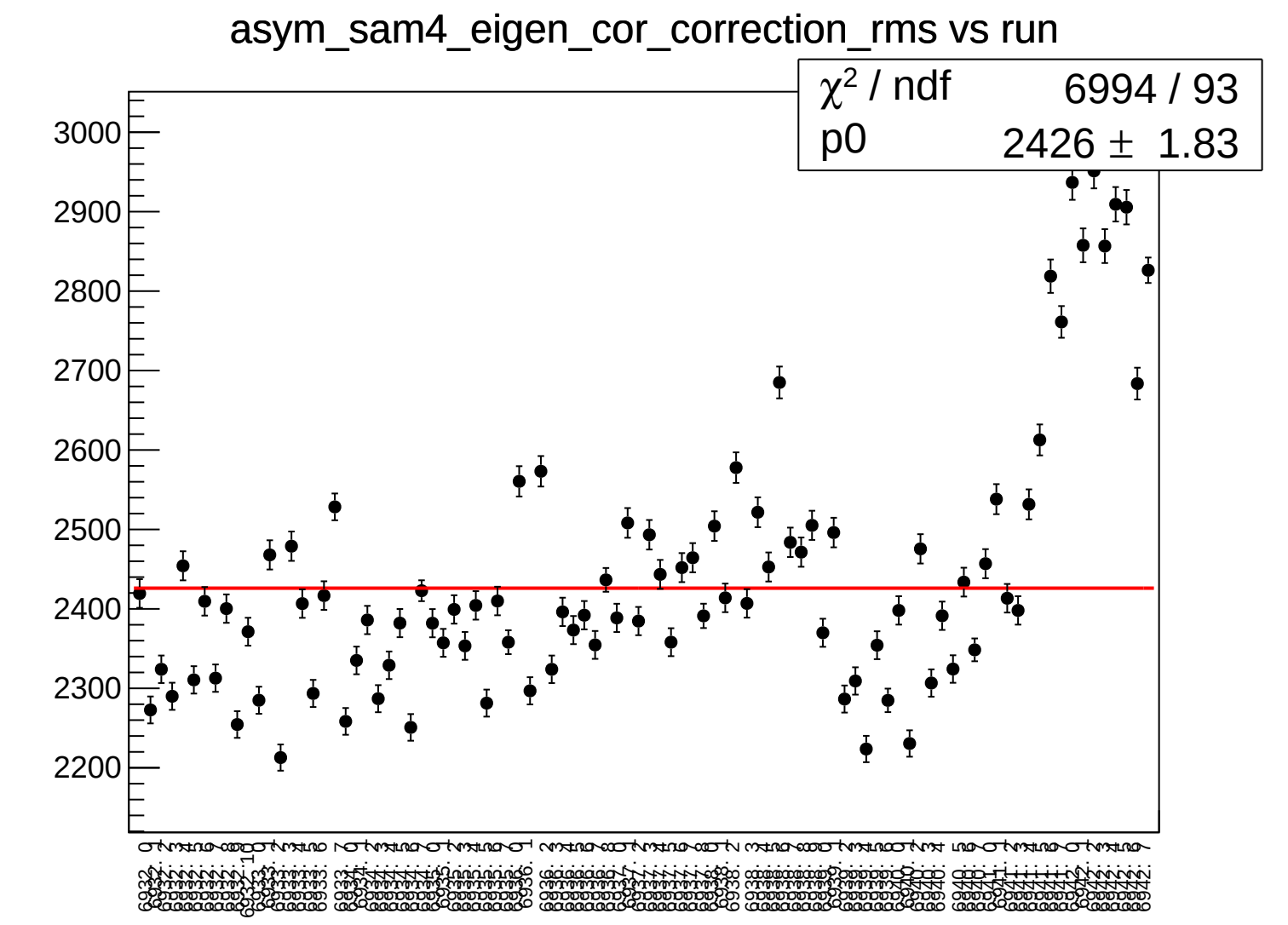

asym_sam4_cor_correction_rms vs run
χ² / ndf 6994 / 93
p0 2426 ± 1.83
3000
2900
2800
2700
2600
2500
2400
2300
2200

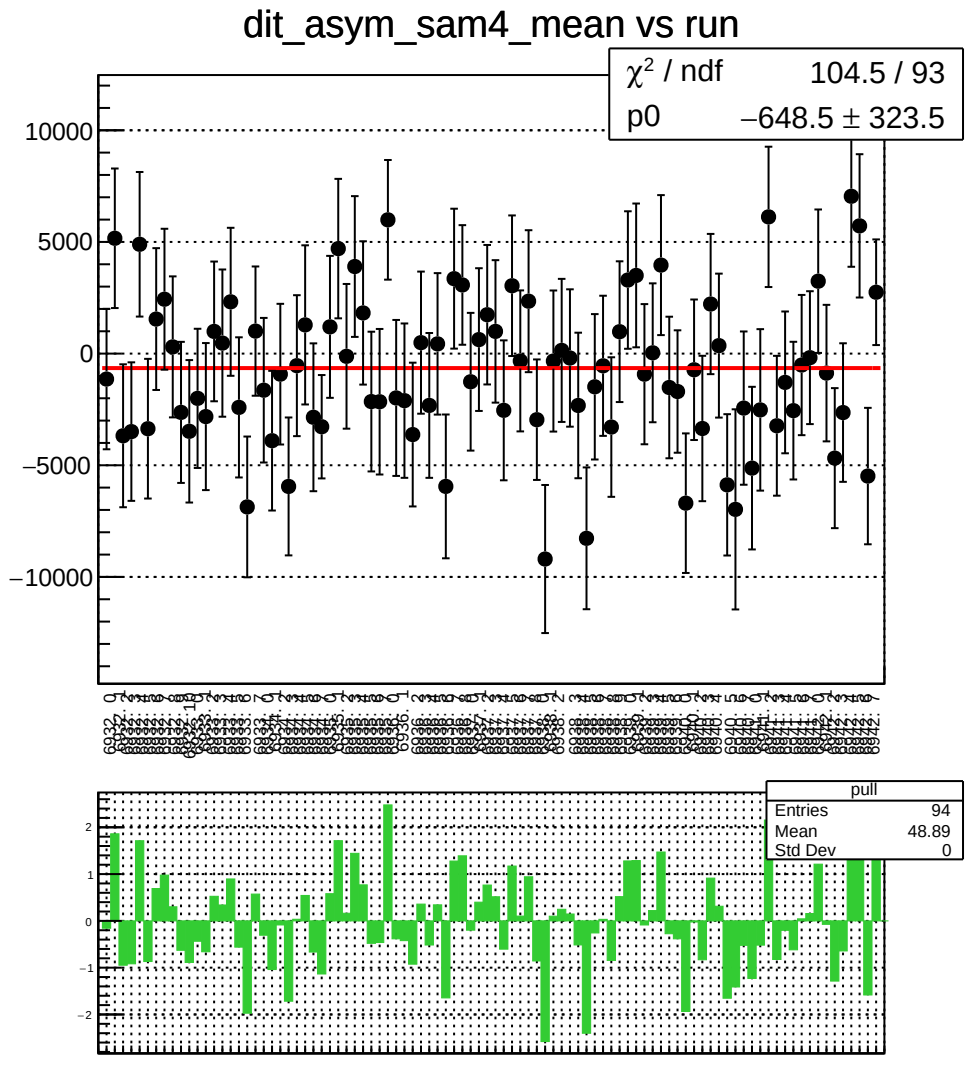

eigen_cor_asym_sam4_mean vs run
χ² / ndf 115.5 / 93
p0 −720.4 ± 293.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 45.38
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.009321
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

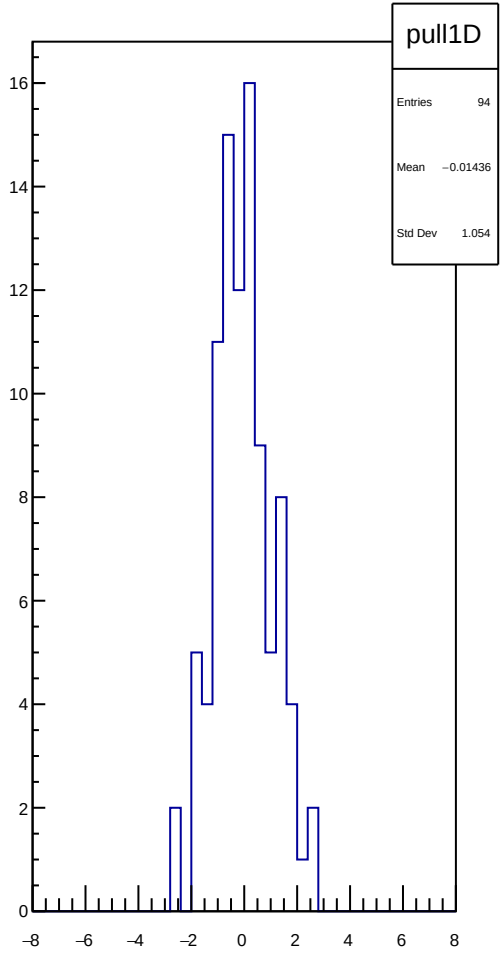

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1540 / 93
p0 275.8 ± 0.2078
320
310
300
290
280
270
260

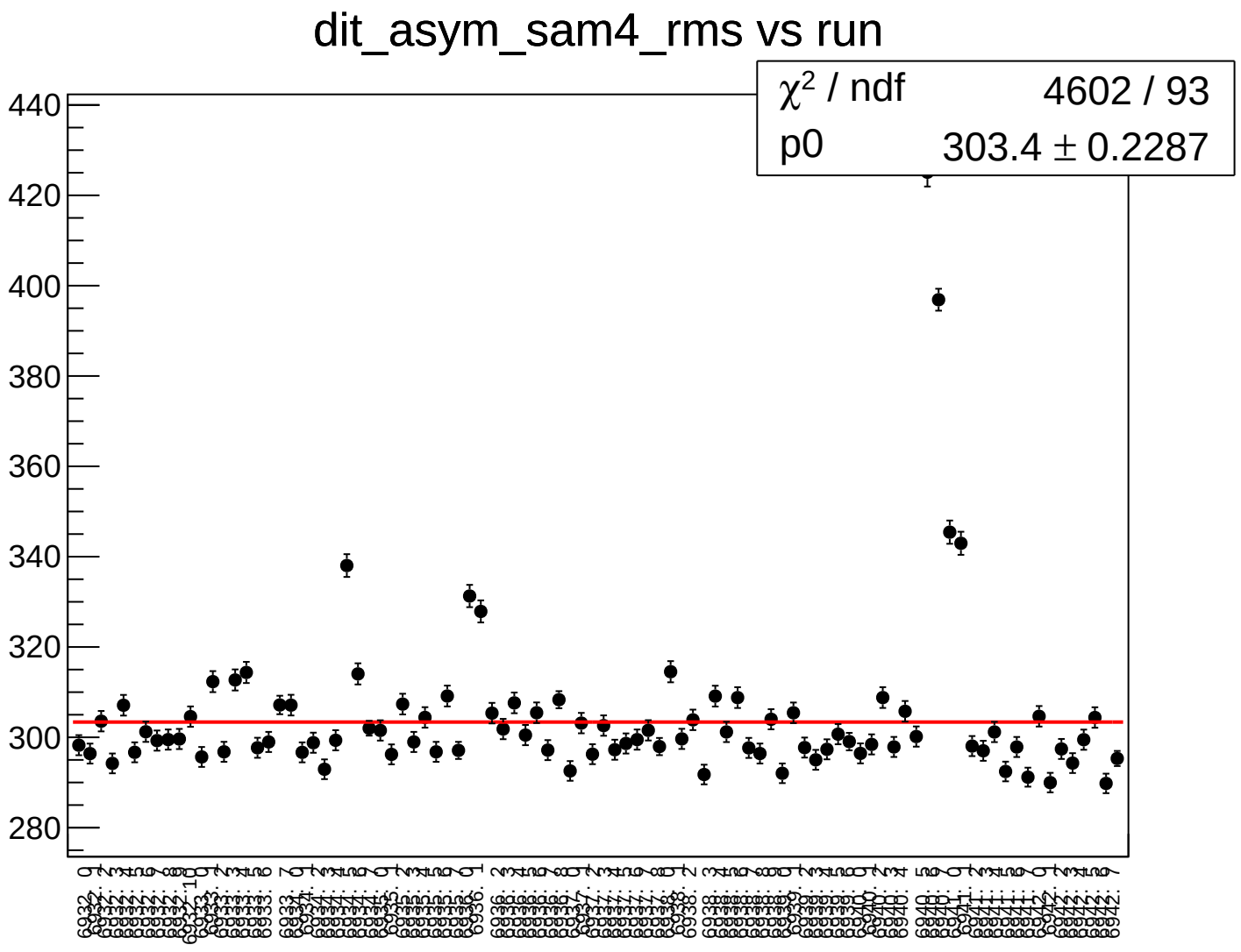

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 69.52 / 93
p0 1767 ± 2589
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 286
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

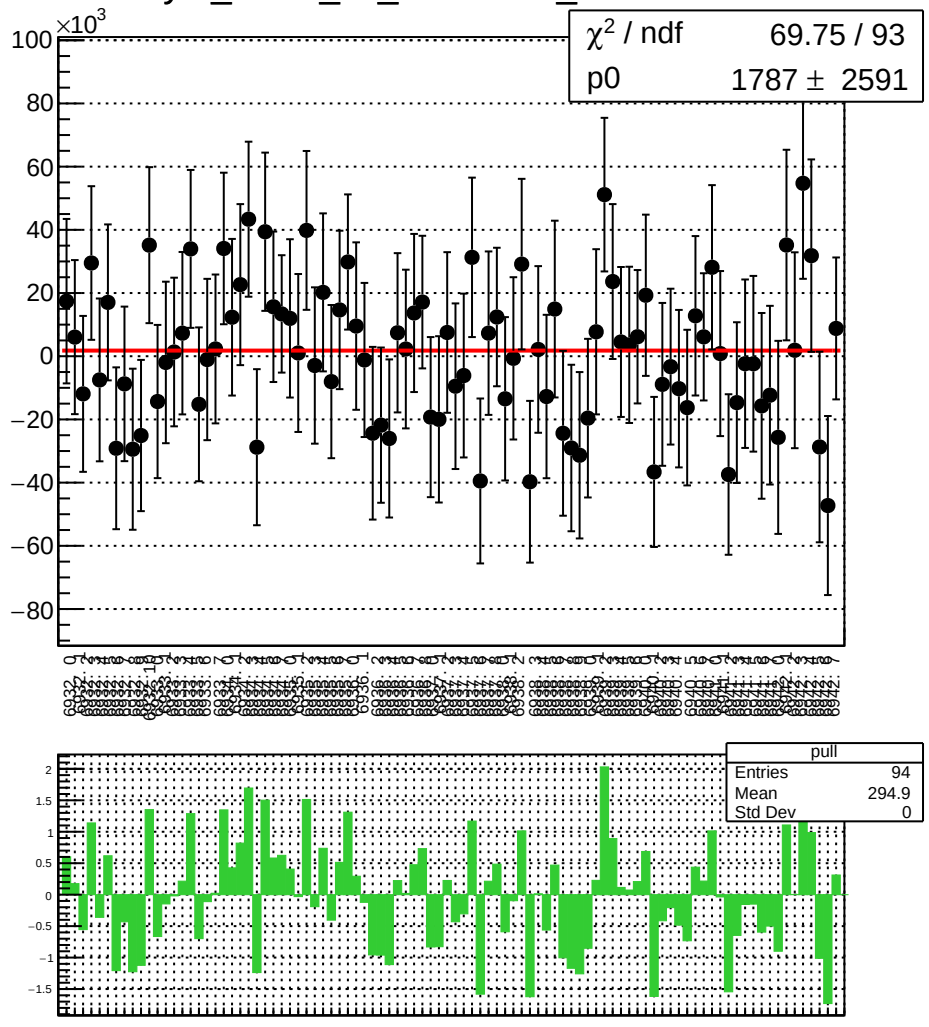

pull1D
Entries 94
Mean −0.01222
Std Dev 0.8599
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

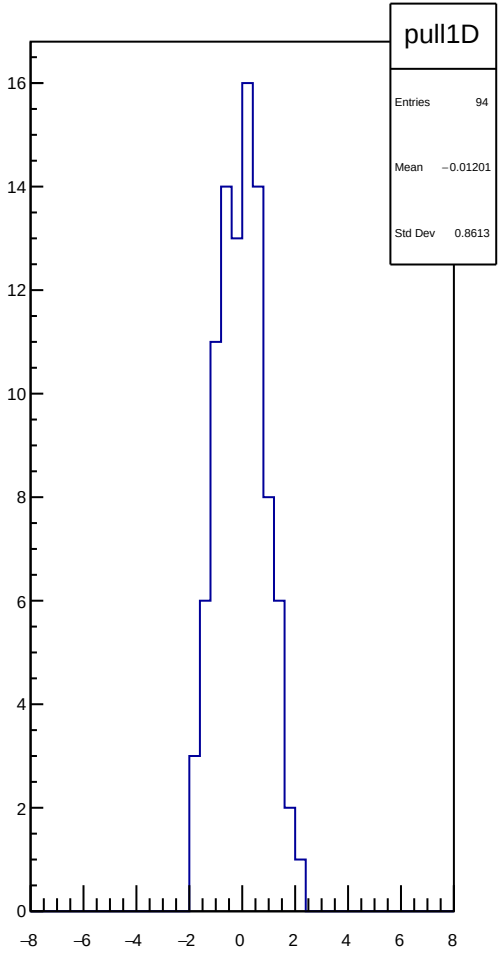

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 6994 / 93
p0 2426 ± 1.83
3000
2900
2800
2700
2600
2500
2400
2300
2200

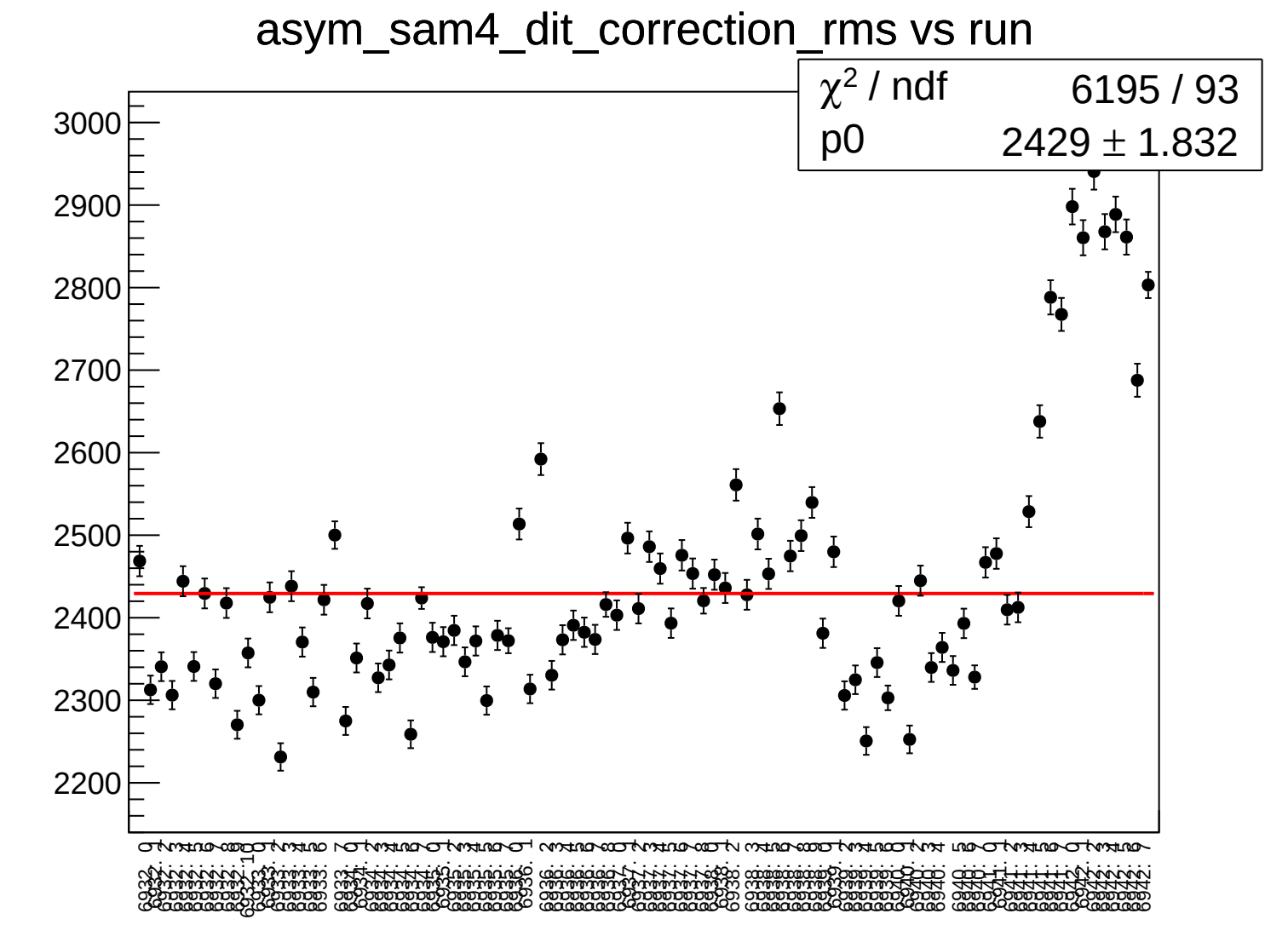

dit_asym_sam4_mean vs run
χ² / ndf 104.5 / 93
p0 −648.5 ± 323.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 48.89
Std Dev 0
2
1
0
−1
−2

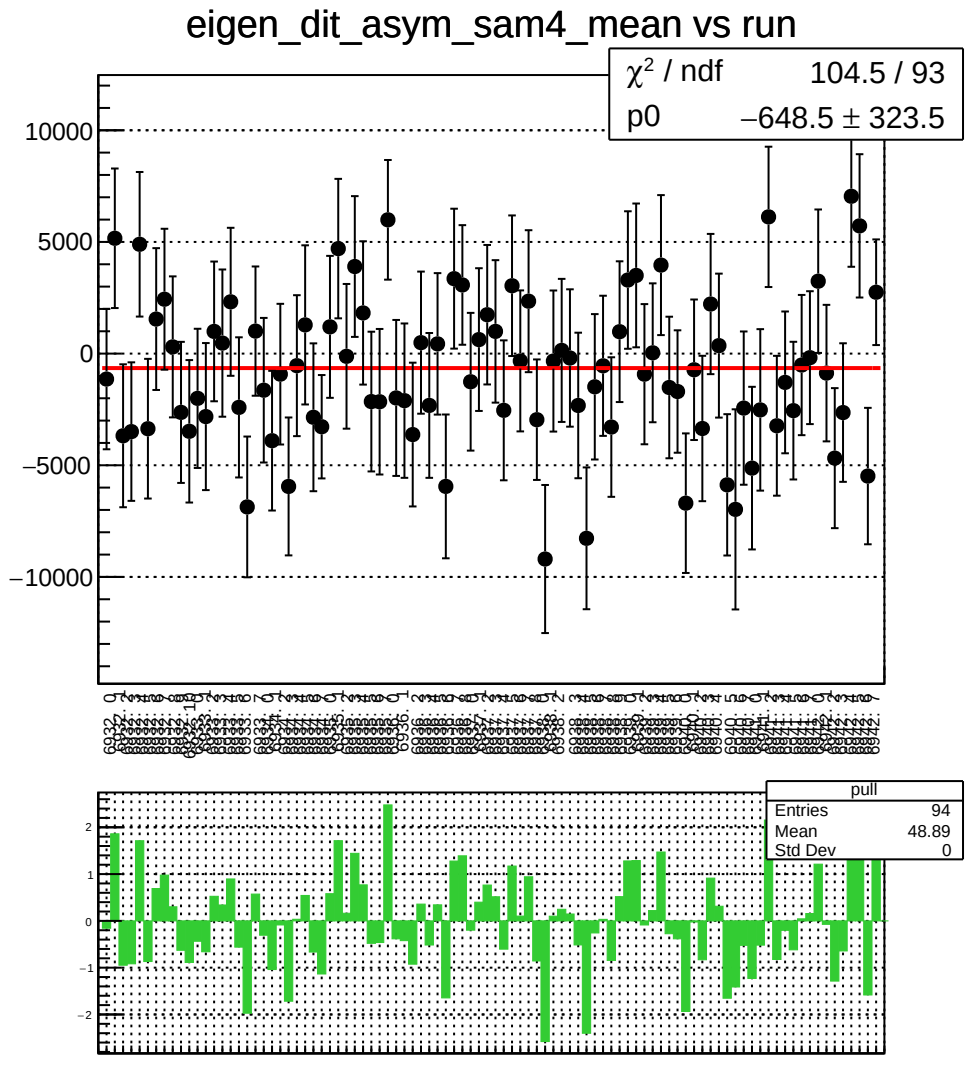

pull1D
Entries 94
Mean −0.01436
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

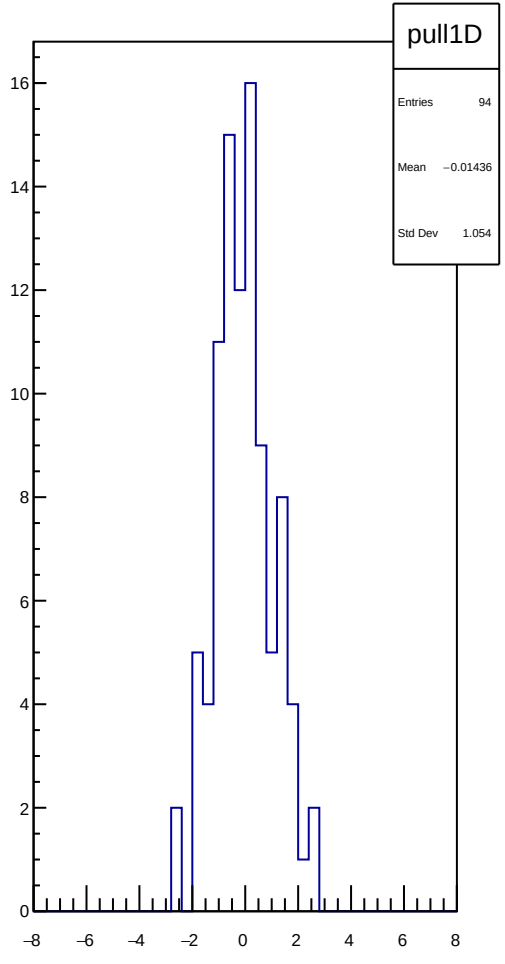

dit_asym_sam4_rms vs run
χ² / ndf 4602 / 93
p0 303.4 ± 0.2287
440
420
400
380
360
340
320
300
280

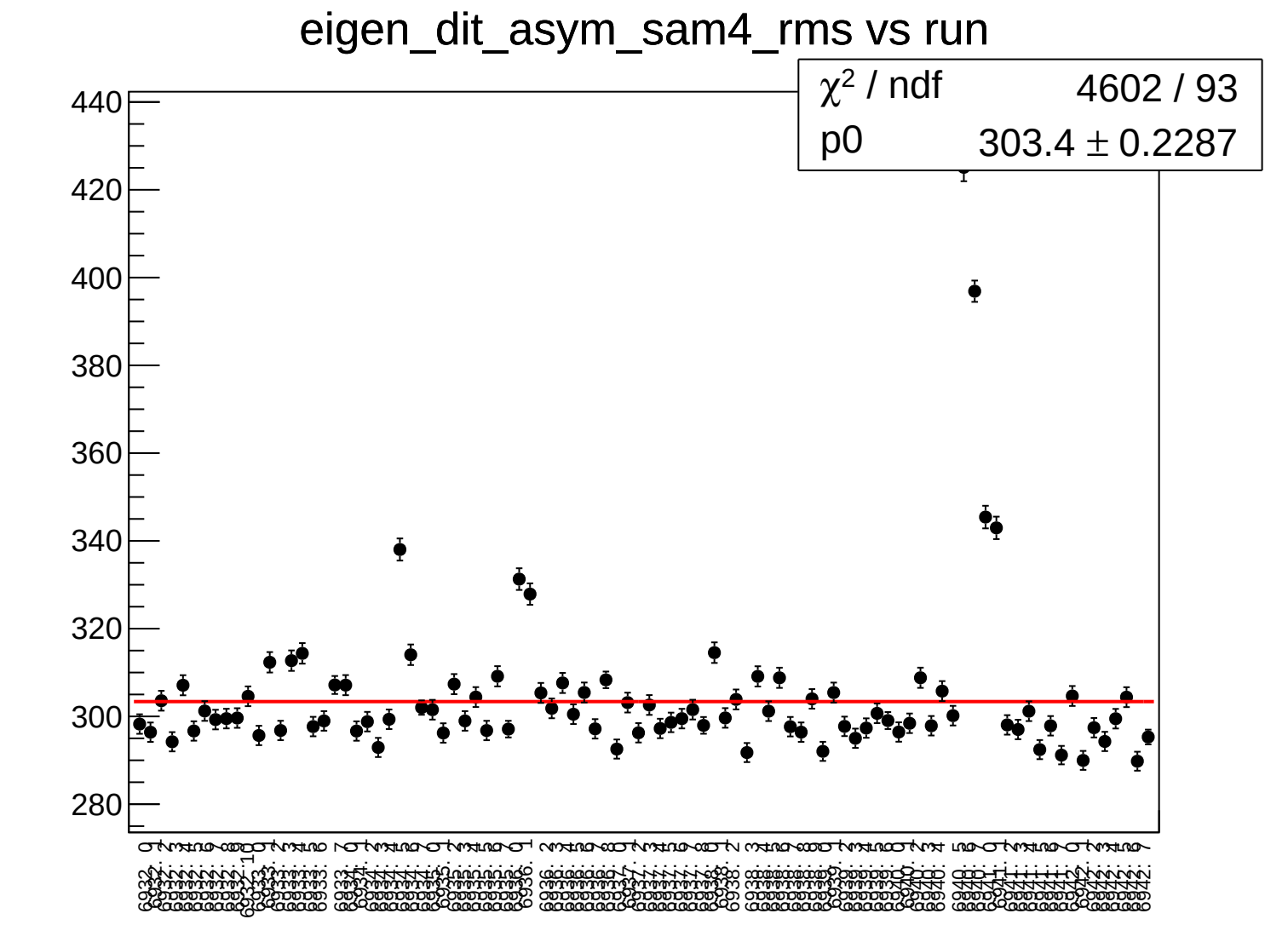

asym_sam4_dit_correction_mean vs run
χ^2 / ndf 69.75 / 93
p0 1787 ± 2591
×10^3
pull
Entries 94
Mean 294.9
Std Dev 0

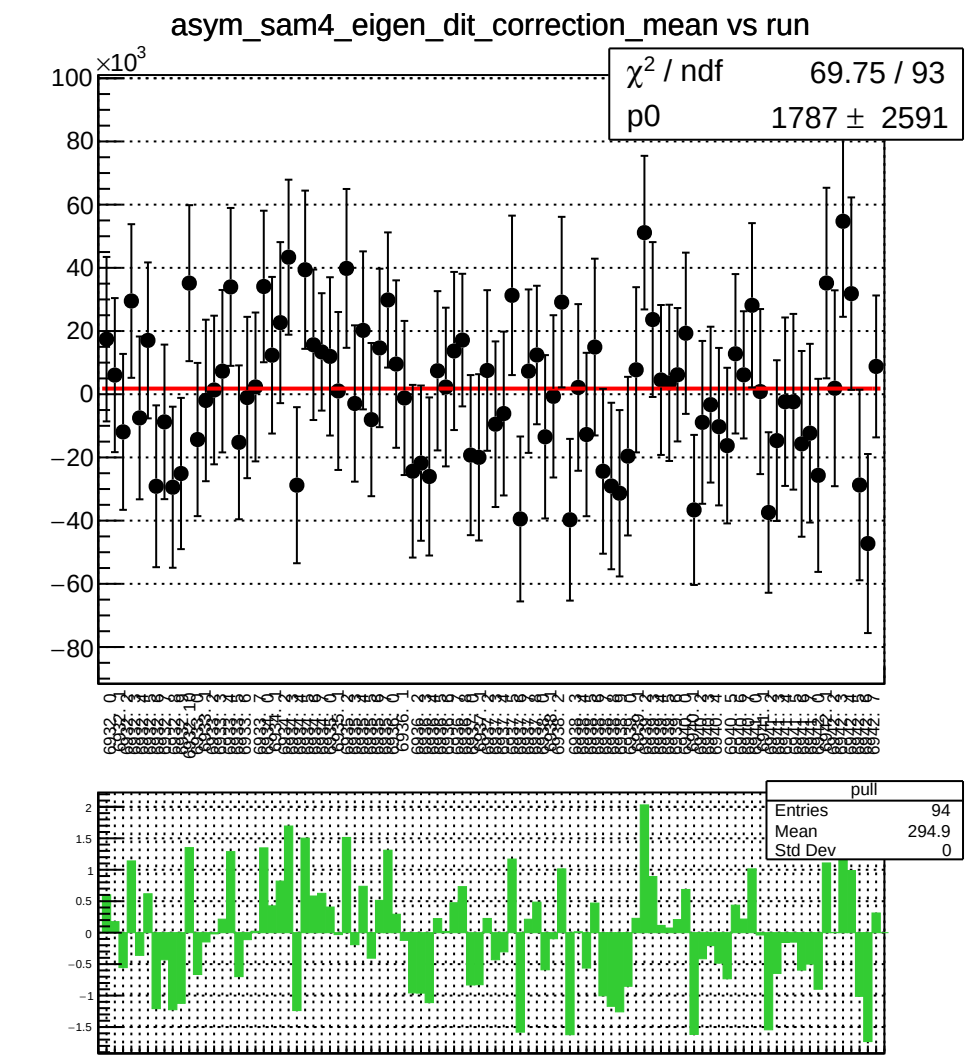

pull1D
Entries 94
Mean −0.01201
Std Dev 0.8613

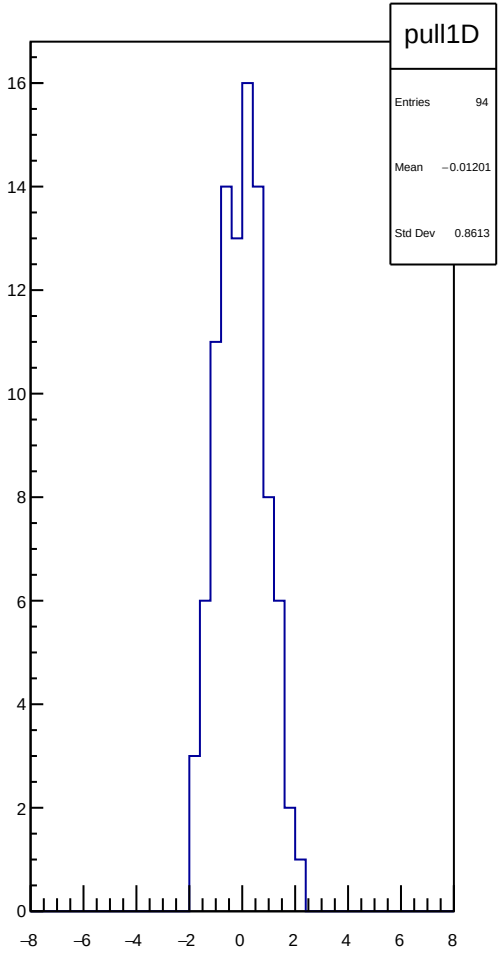

asym_sam4_dit_correction_rms vs run
χ² / ndf 6195 / 93
p0 2429 ± 1.832
3000
2900
2800
2700
2600
2500
2400
2300
2200

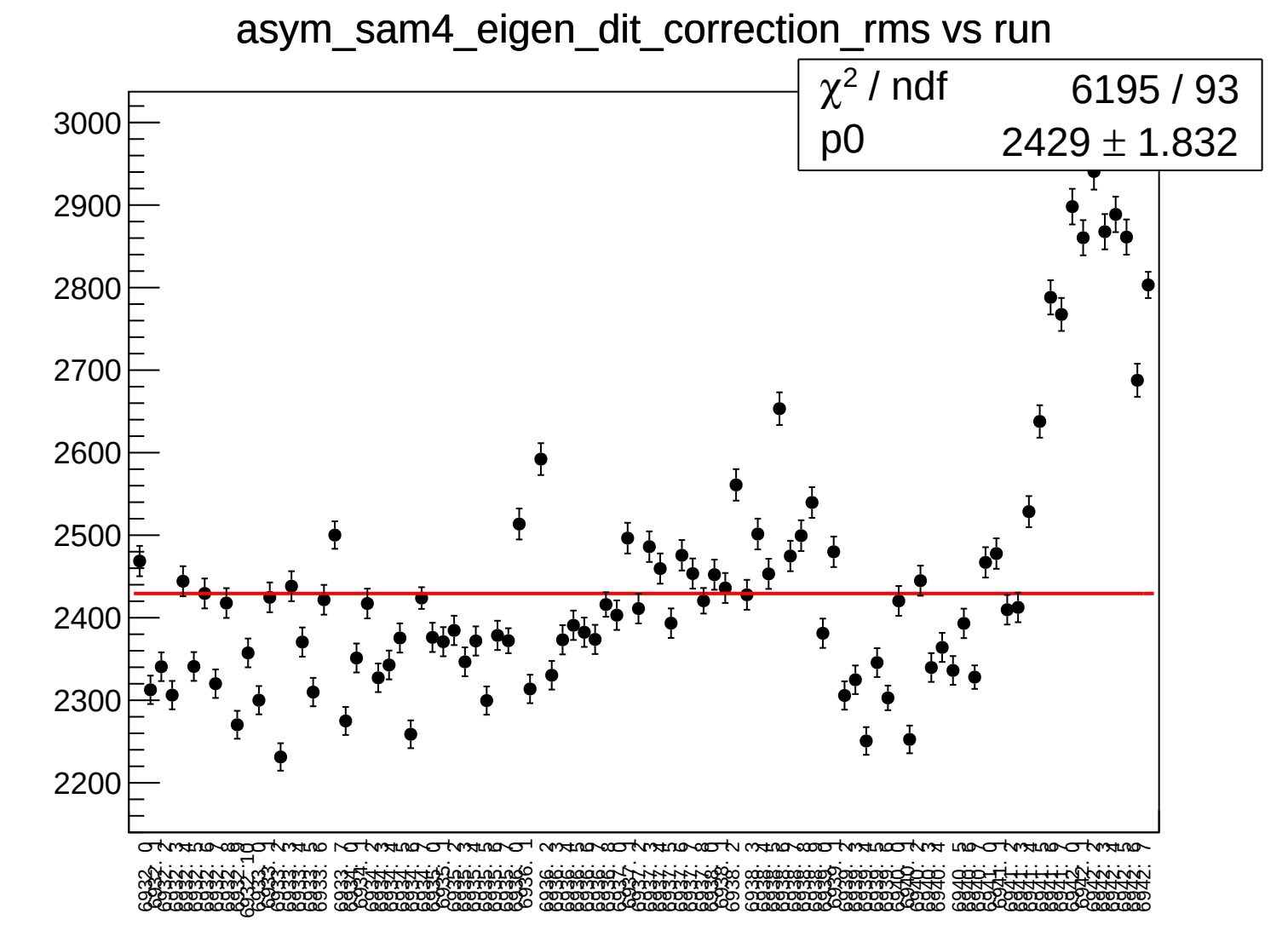

eigen_dit_asym_sam4_mean vs run
χ² / ndf 104.5 / 93
p0 −648.5 ± 323.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 48.89
Std Dev 0
2
1
0
−1
−2

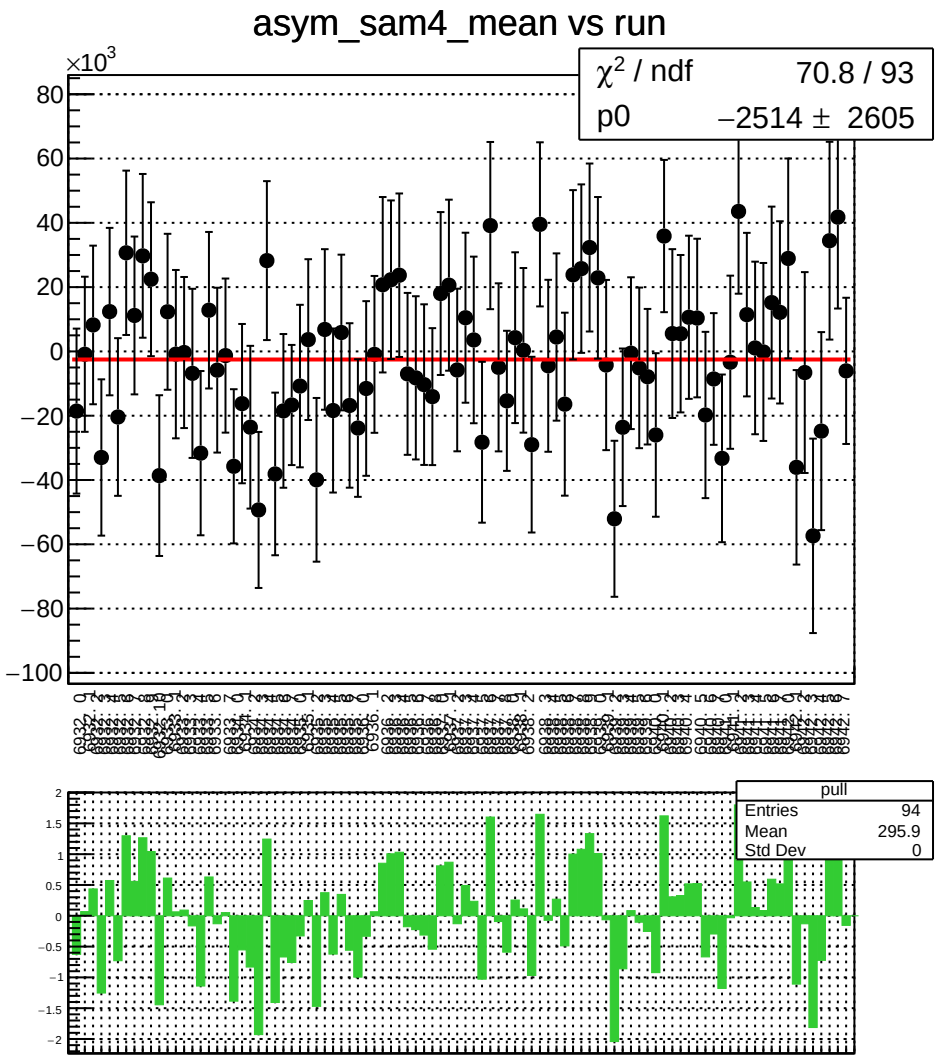

pull1D
Entries 94
Mean −0.01436
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

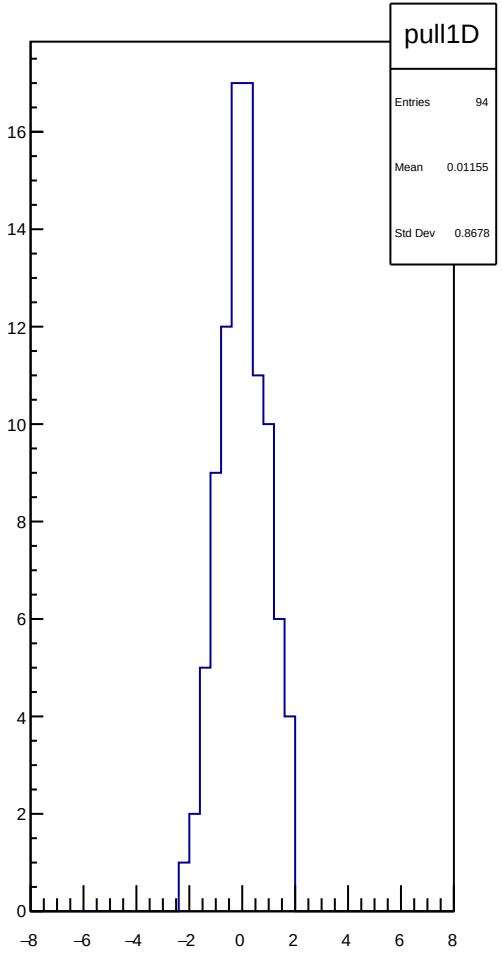

eigen_dit_asym_sam4_rms vs run
χ² / ndf 4602 / 93
p0 303.4 ± 0.2287
440
420
400
380
360
340
320
300
280

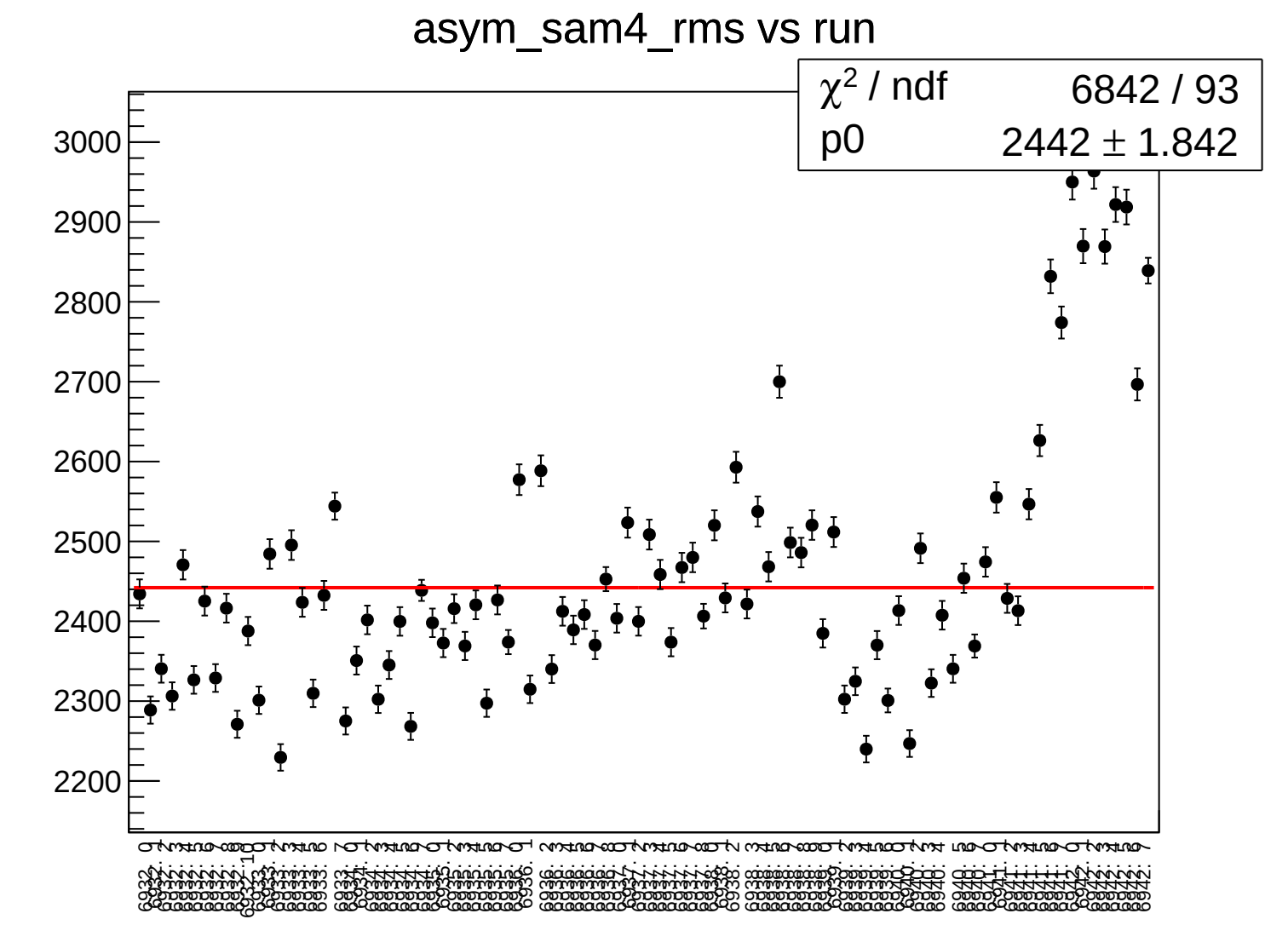

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 69.75 / 93
p0 1787 ± 2591
×10³
pull
Entries 94
Mean 294.9
Std Dev 0

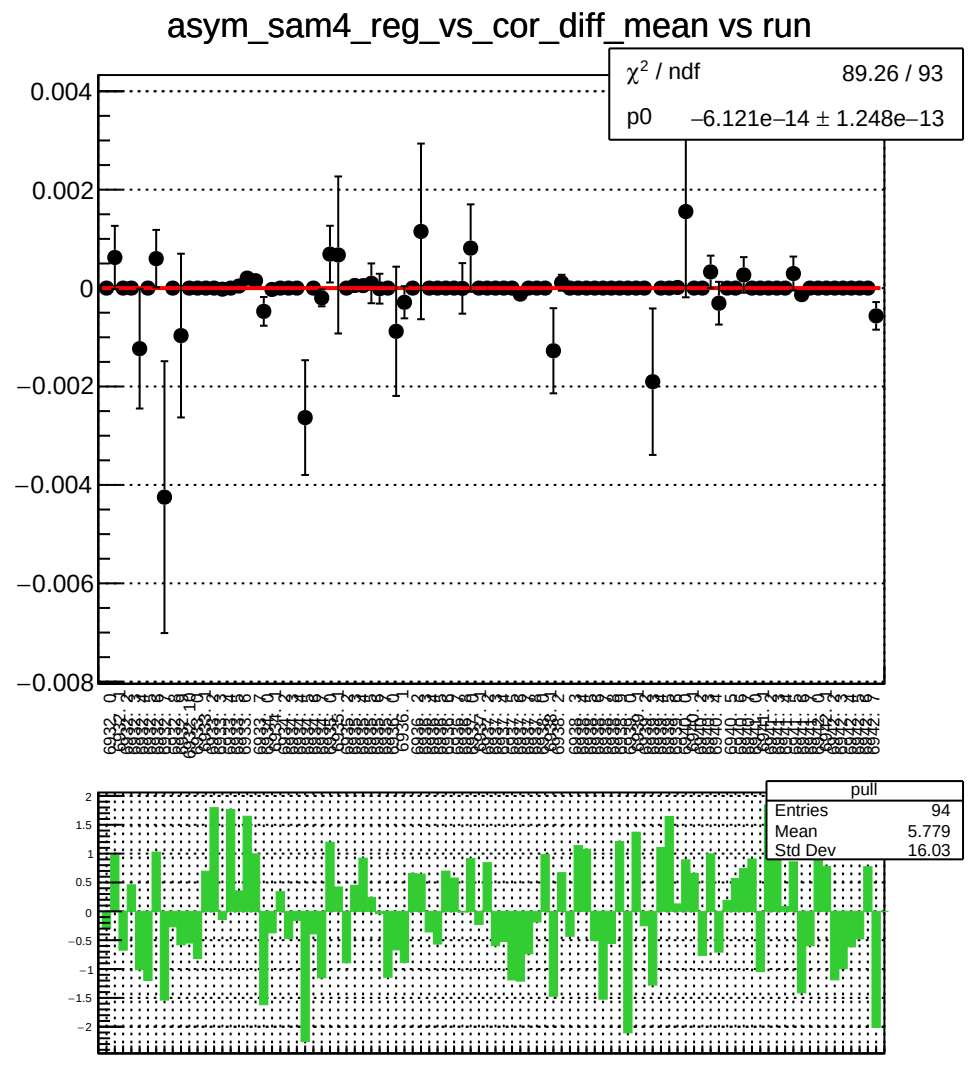

pull1D
Entries 94
Mean −0.01201
Std Dev 0.8613

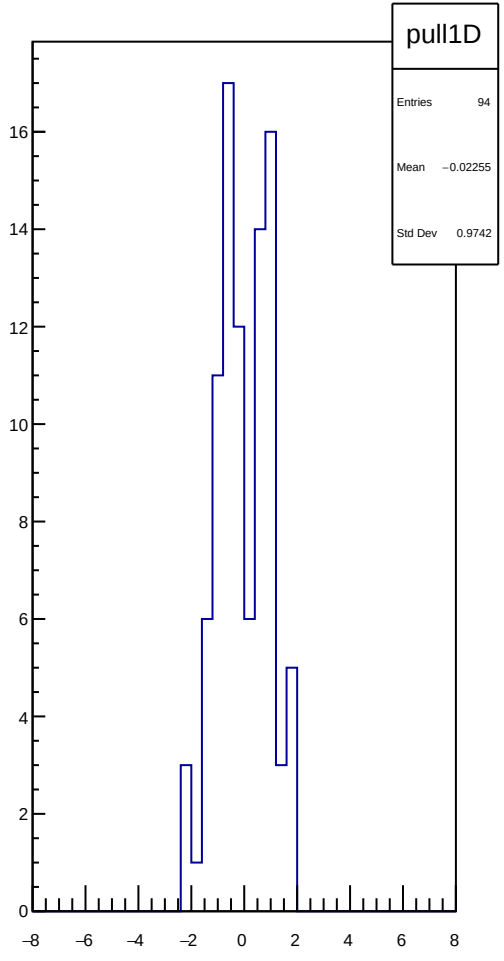

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 6195 / 93
p0 2429 ± 1.832
3000
2900
2800
2700
2600
2500
2400
2300
2200

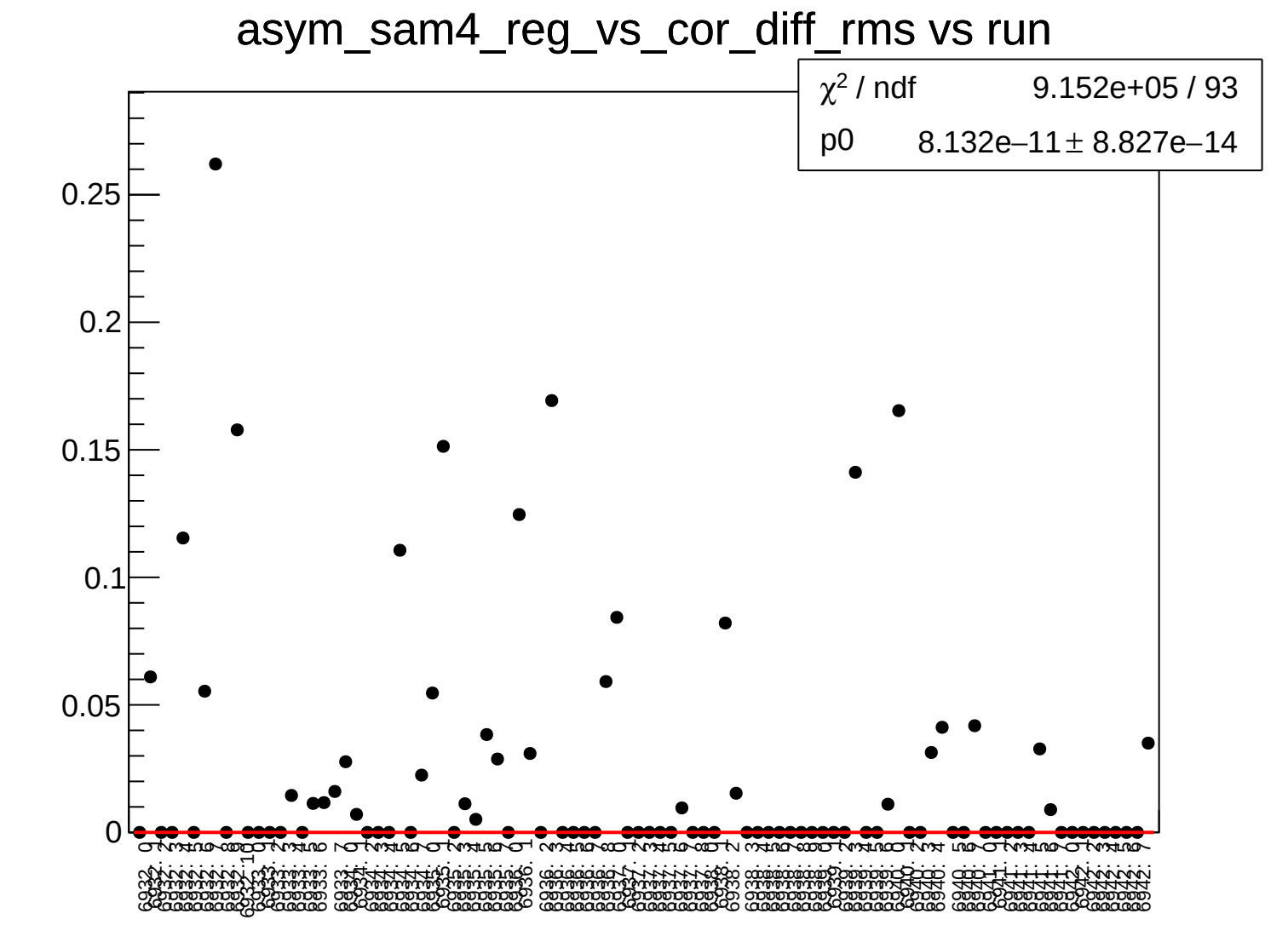

asym_sam4_mean vs run
×10^3
χ^2 / ndf 70.8 / 93
p0 −2514 ± 2605
pull
Entries 94
Mean 295.9
Std Dev 0

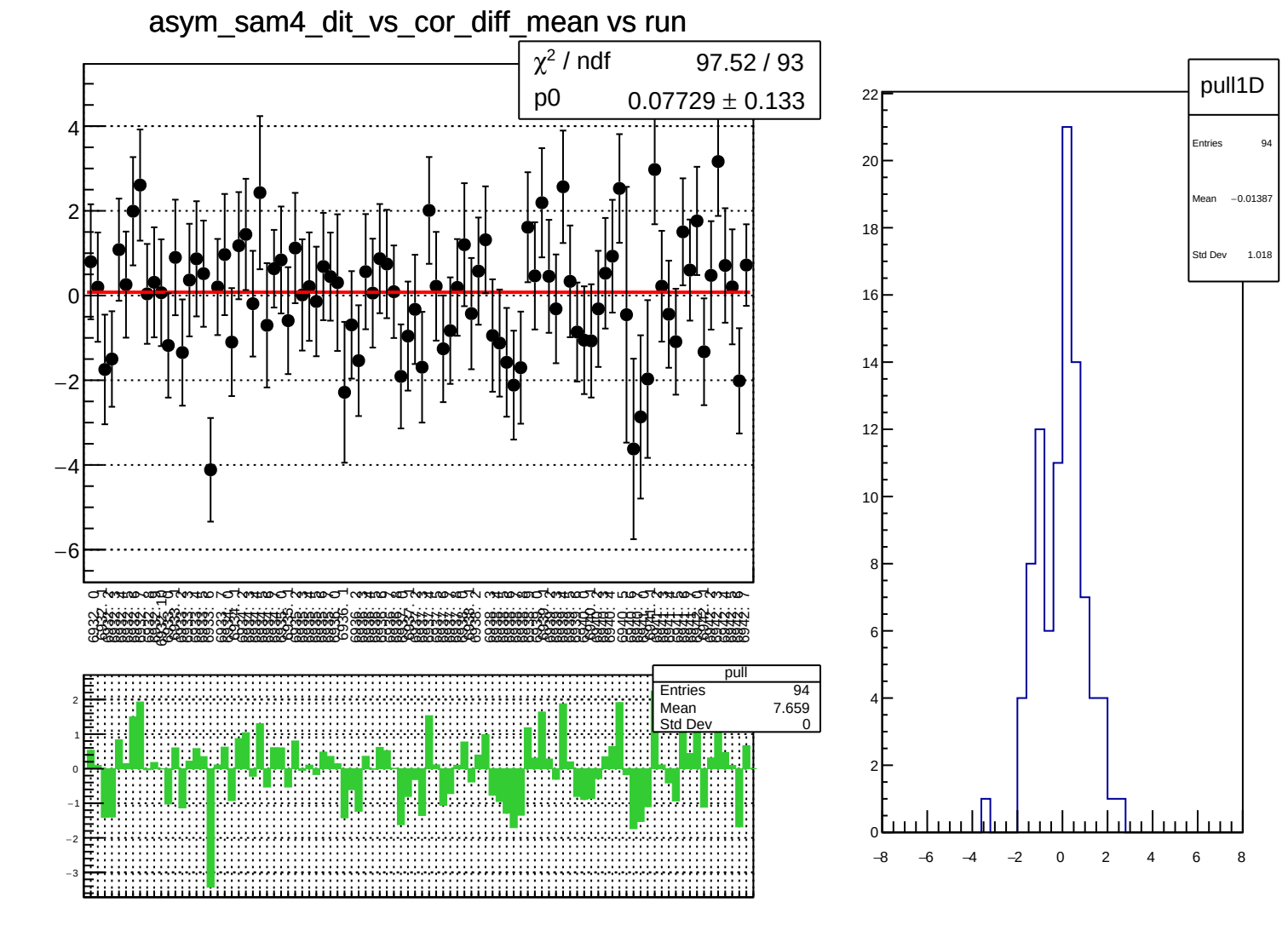

pull1D
Entries 94
Mean 0.01155
Std Dev 0.8678

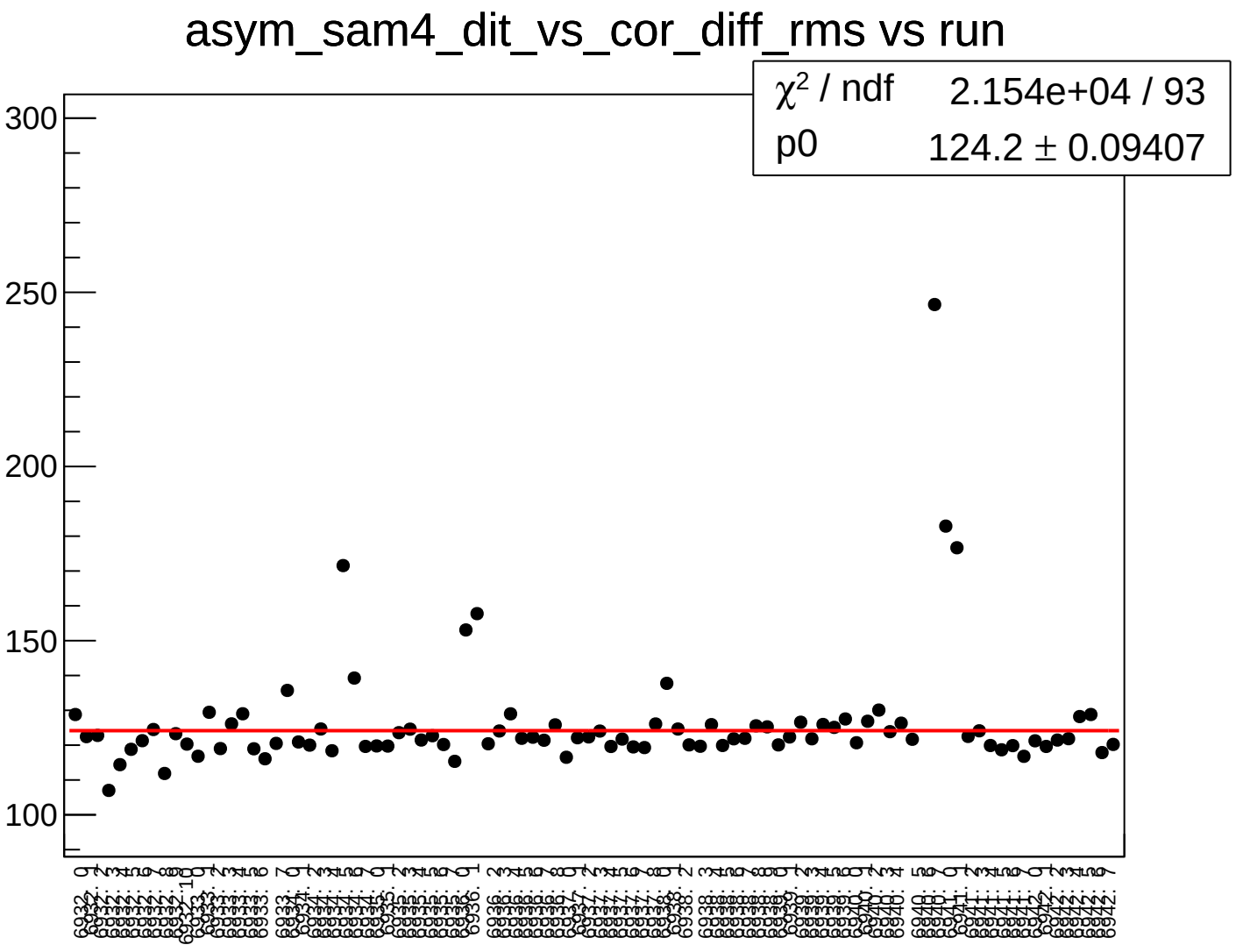

asym_sam4_rms vs run
χ^2 / ndf 6842 / 93
p0 2442 ± 1.842
3000
2900
2800
2700
2600
2500
2400
2300
2200

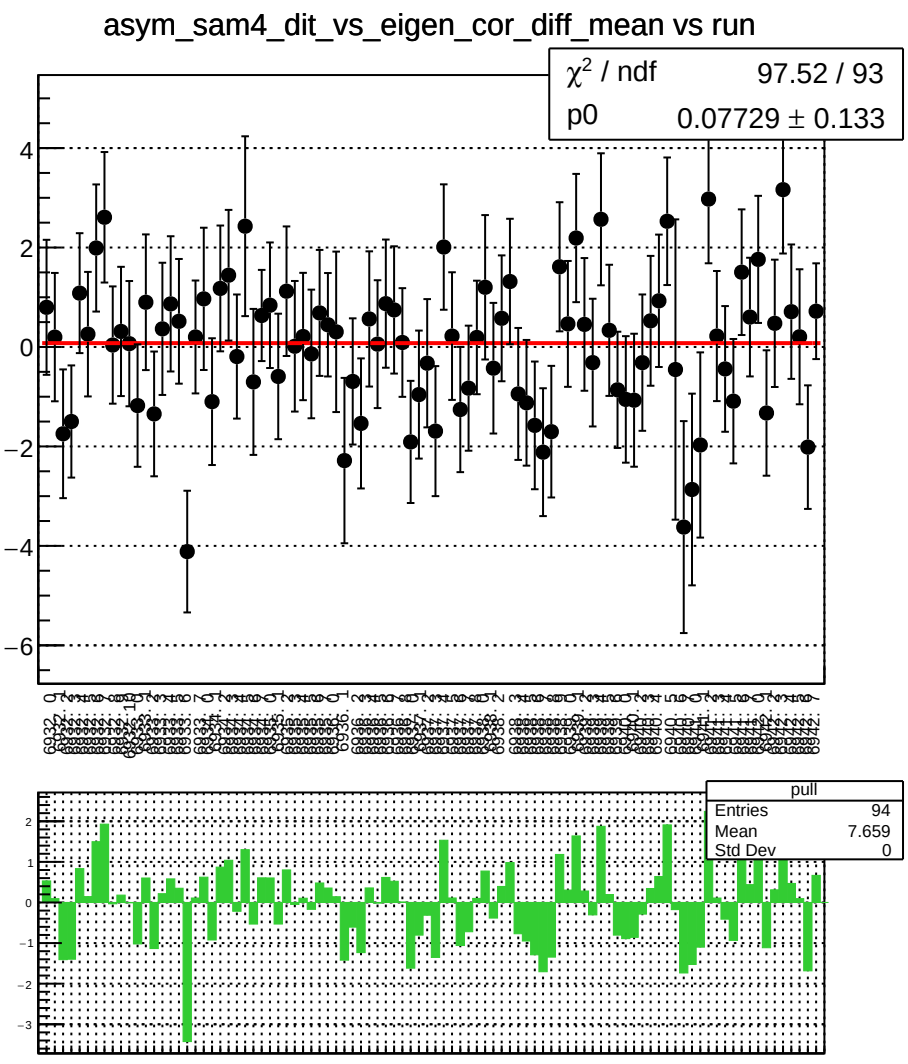

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 93
p0 −6.121e−14 ± 1.248e−13
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 94
Mean 5.779
Std Dev 16.03
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

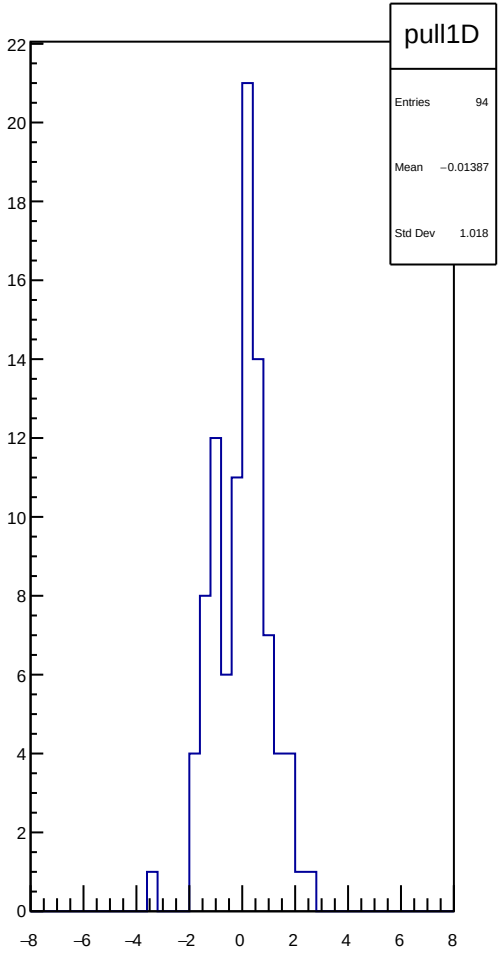

pull1D
Entries 94
Mean −0.02255
Std Dev 0.9742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

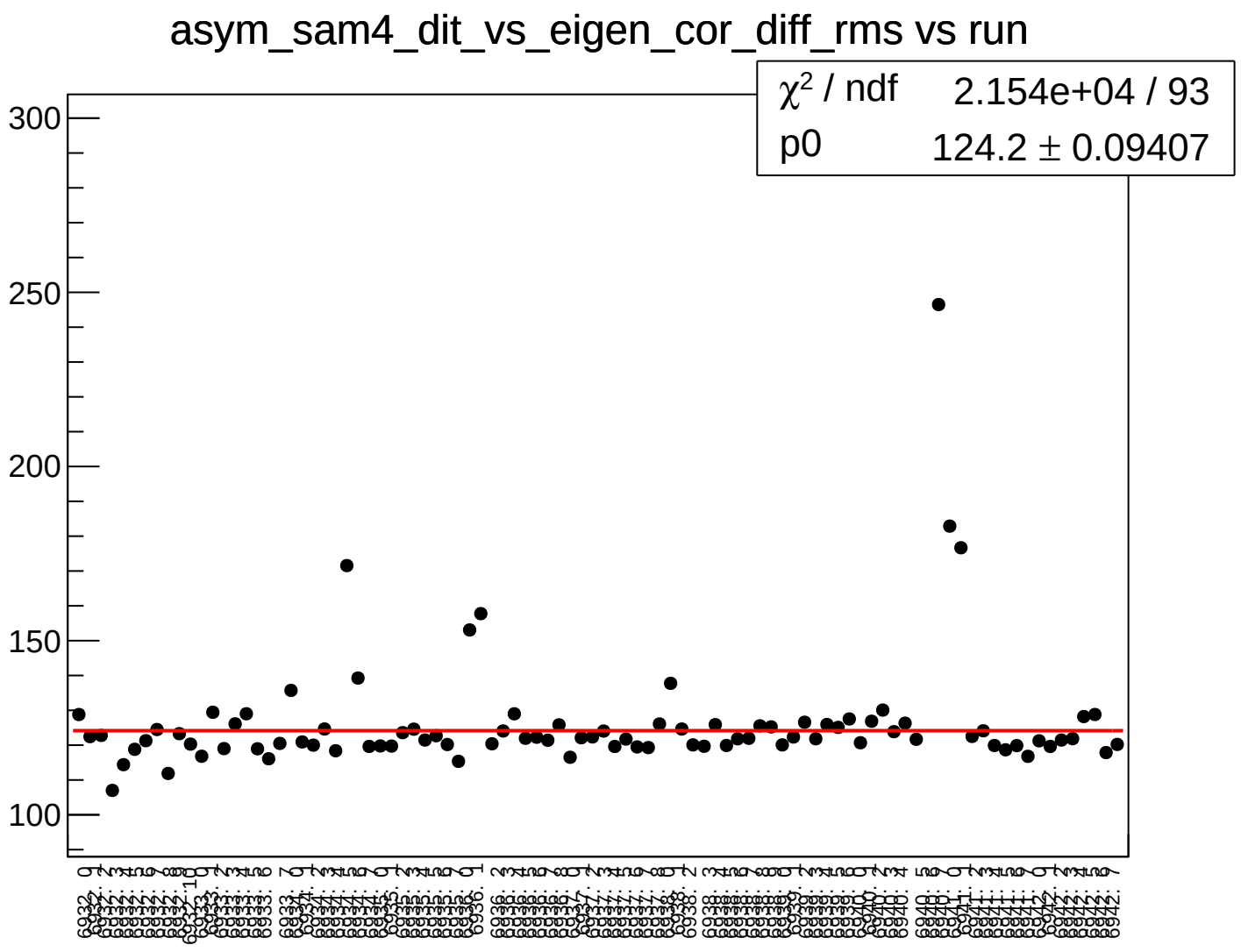

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.152e+05 / 93
p0 8.132e−11 ± 8.827e−14
0.25
0.2
0.15
0.1
0.05
0

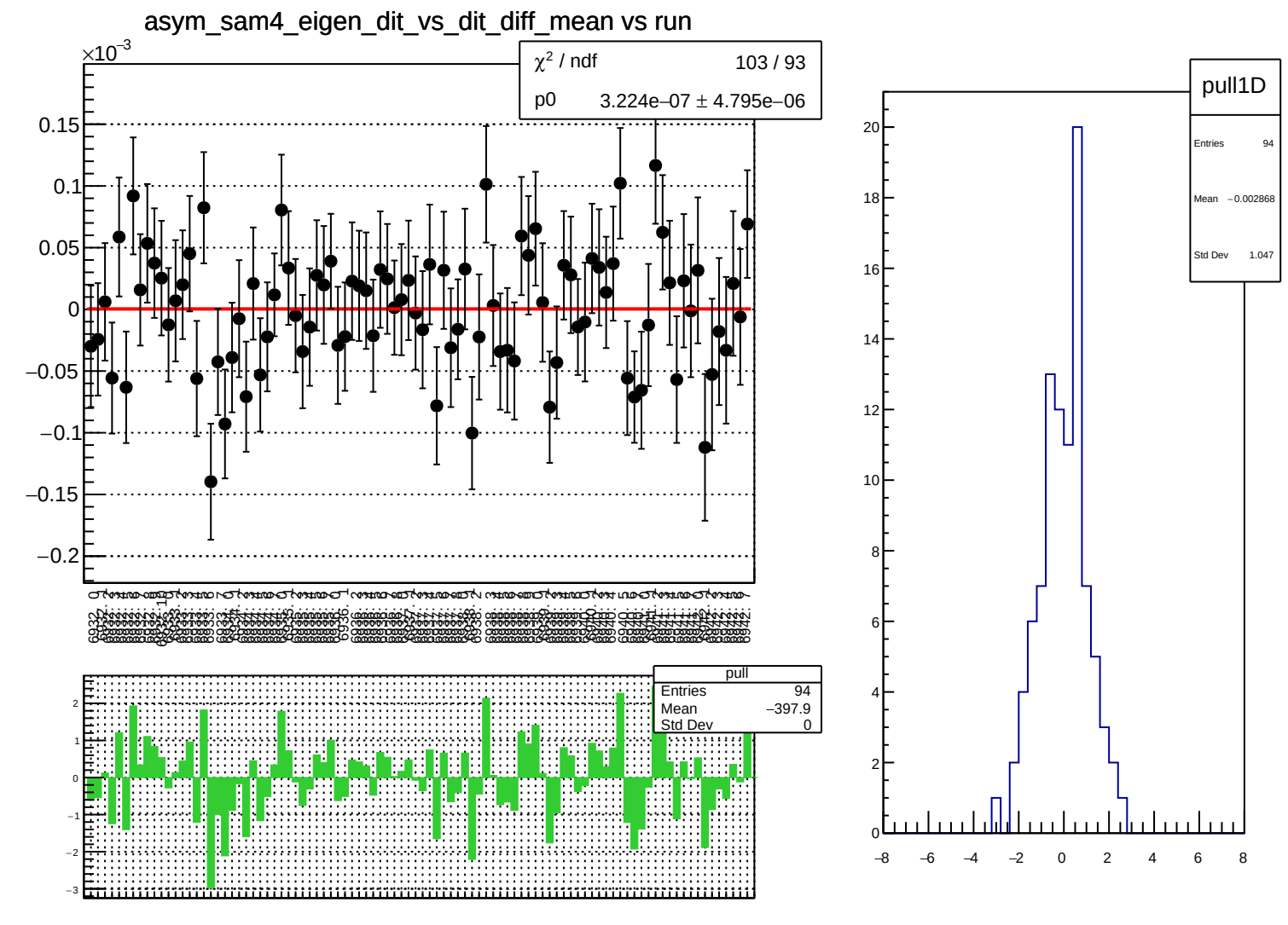

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.07729 ± 0.133
pull
Entries 94
Mean 7.659
Std Dev 0
pull1D
Entries 94
Mean −0.01387
Std Dev 1.018

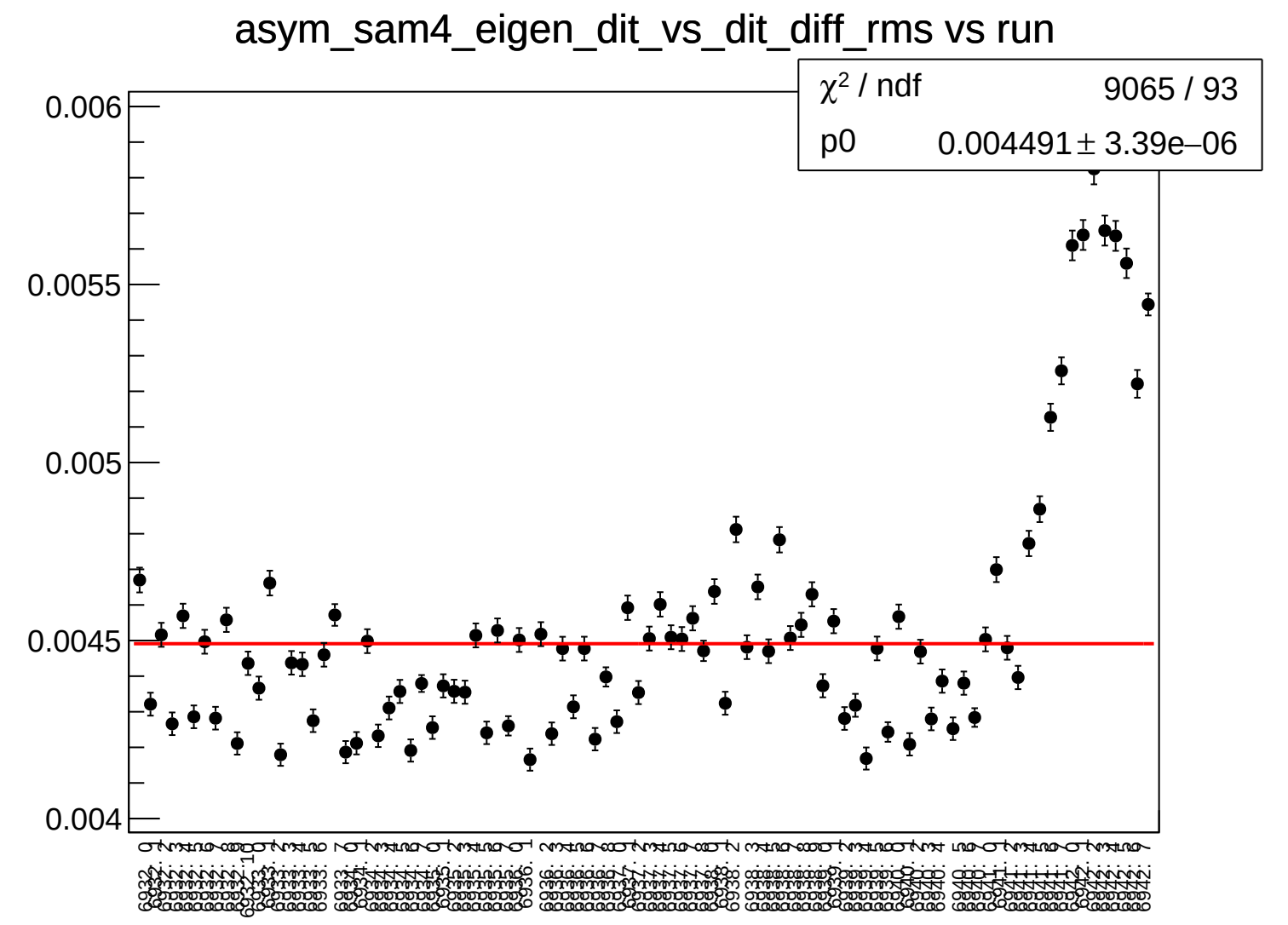

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.154e+04 / 93
p0 124.2 ± 0.09407
300
250
200
150
100

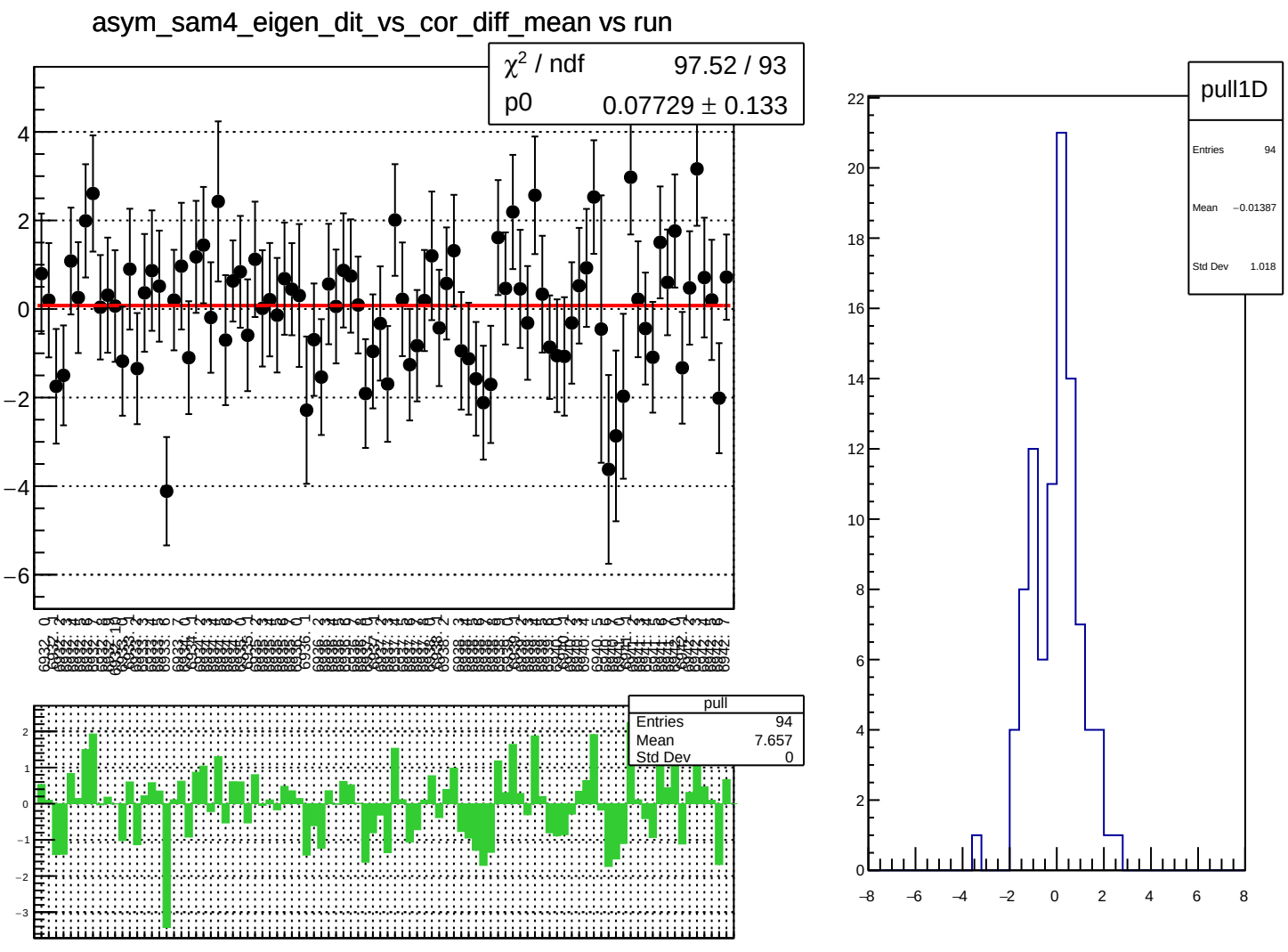

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.07729 ± 0.133
pull
Entries 94
Mean 7.659
Std Dev 0

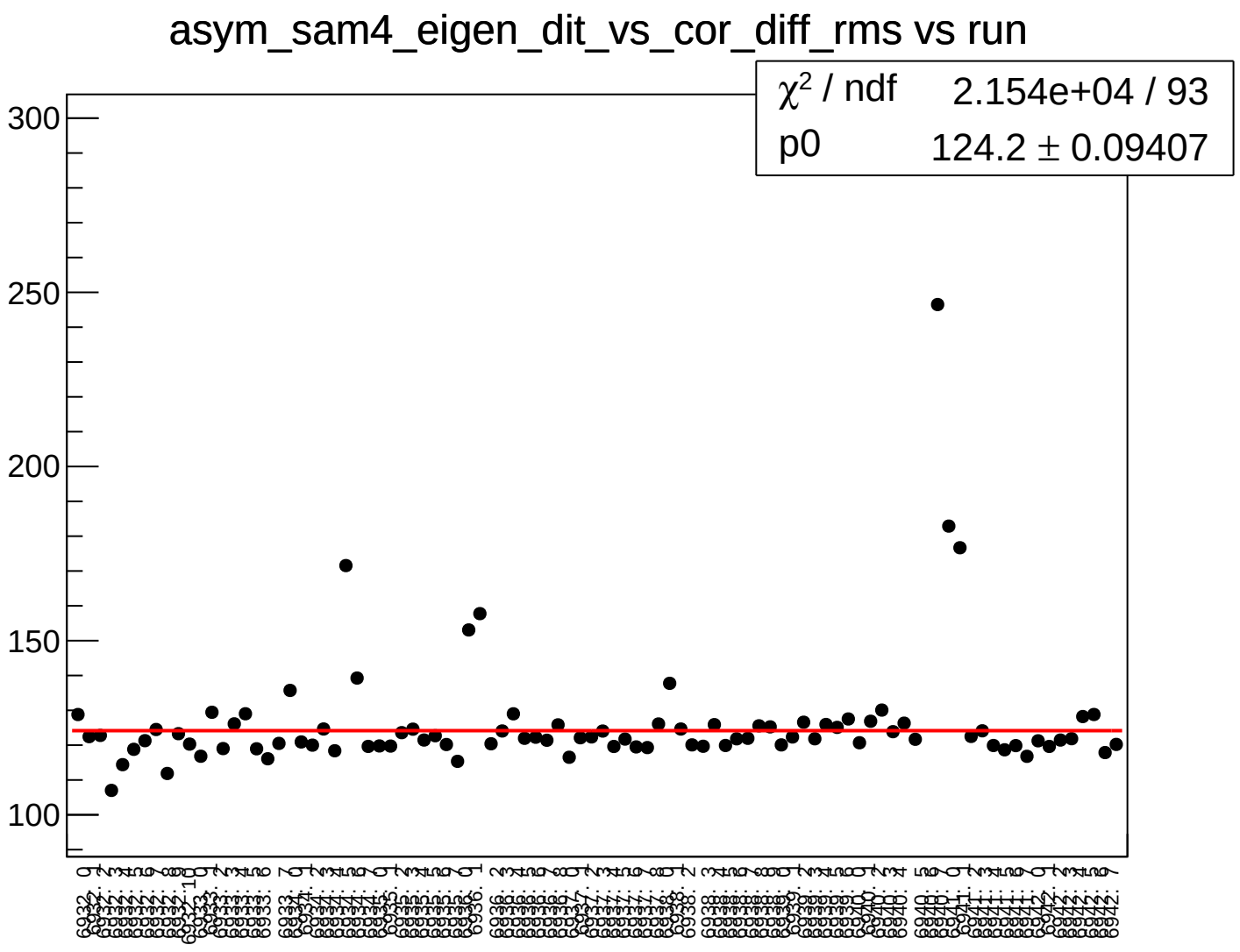

pull1D
Entries 94
Mean −0.01387
Std Dev 1.018

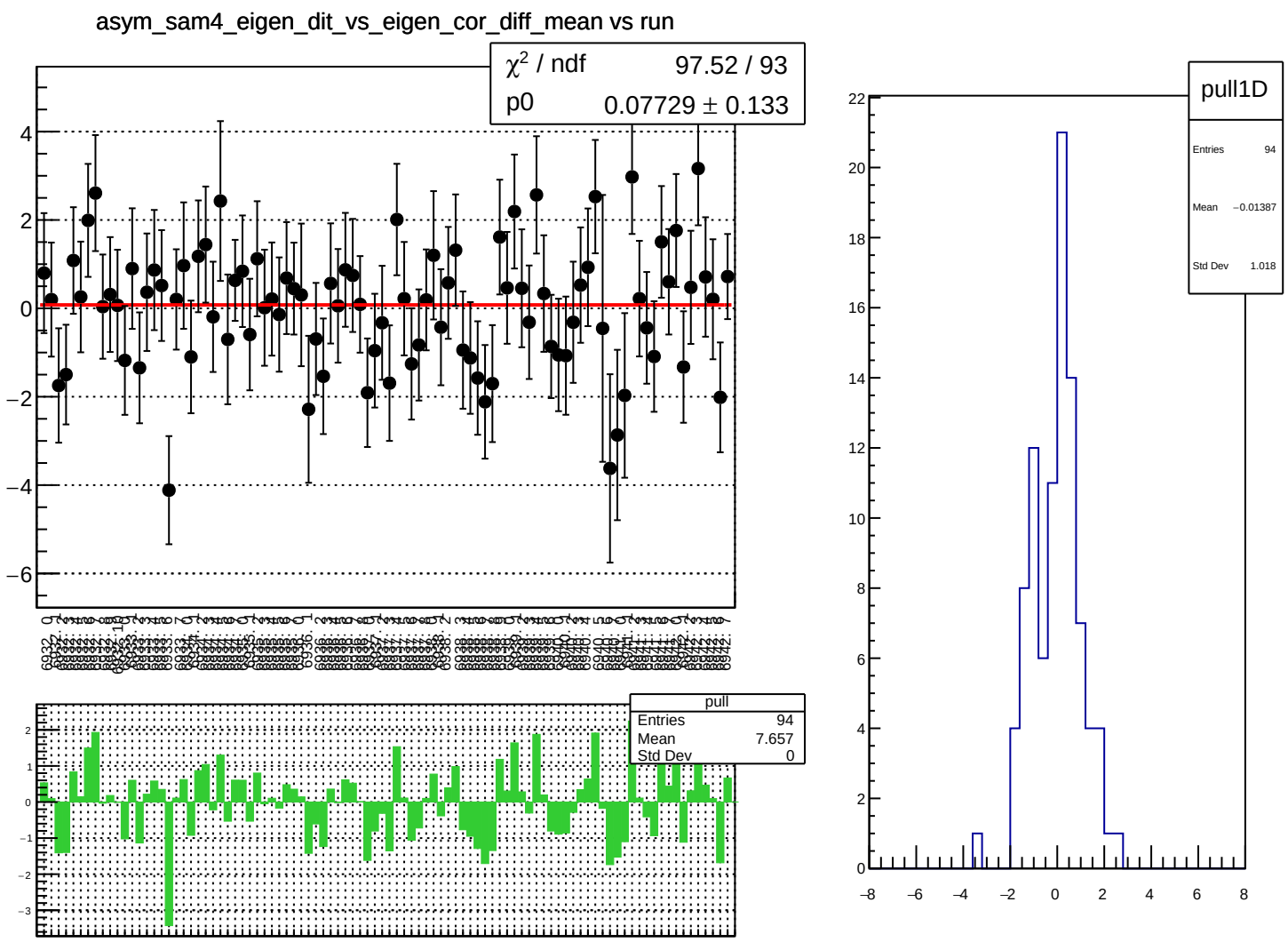

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.154e+04 / 93
p0 124.2 ± 0.09407
300
250
200
150
100

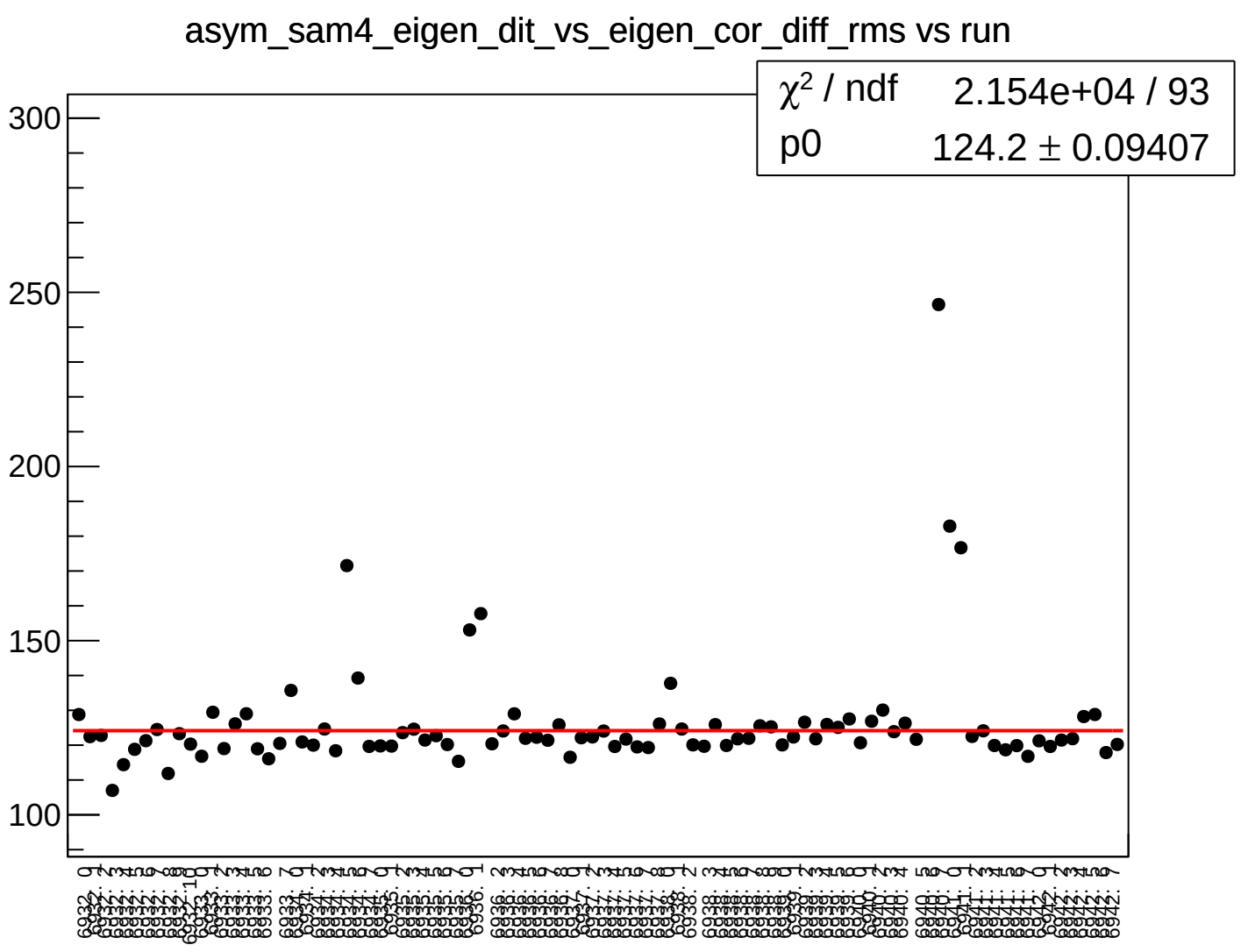

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103 / 93
p0 3.224e−07 ± 4.795e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 94
Mean −397.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002868
Std Dev 1.047
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

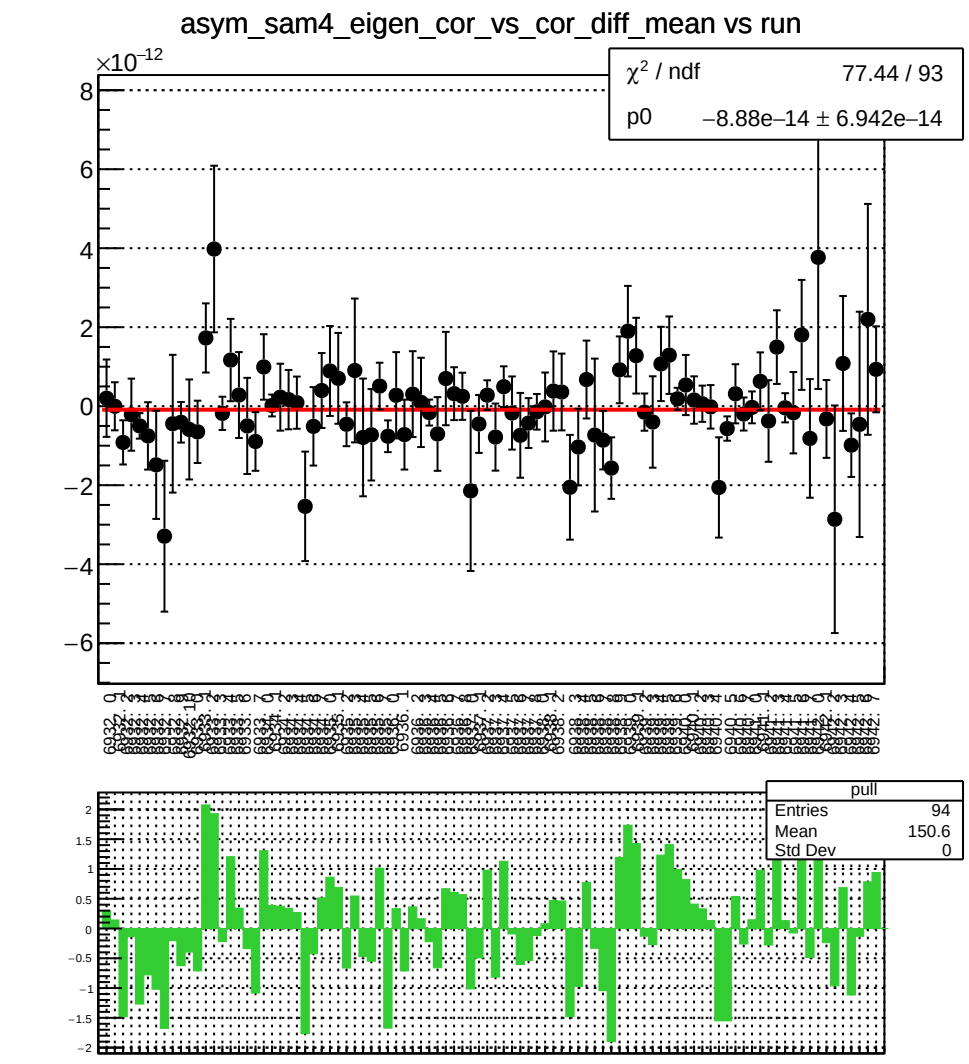

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9065 / 93
p0 0.004491 ± 3.39e–06
0.006
0.0055
0.005
0.0045
0.004

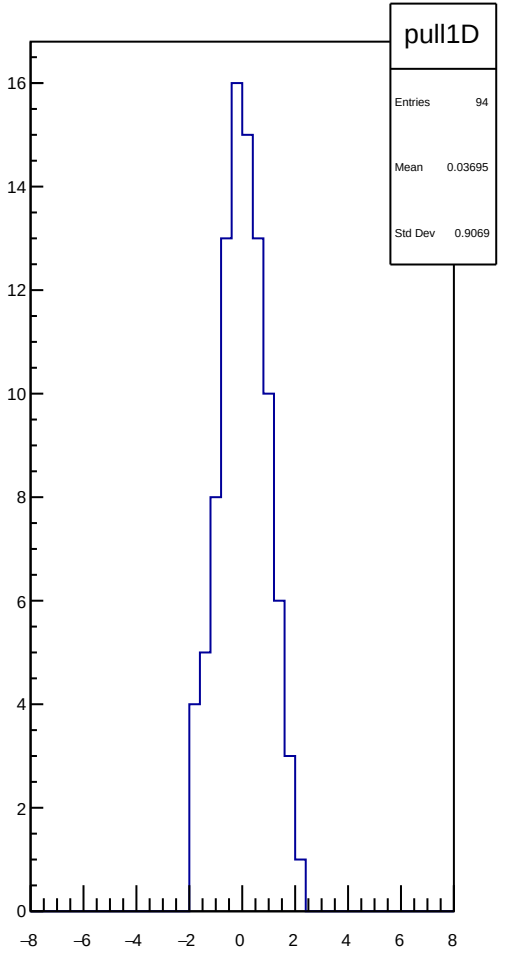

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.07729 ± 0.133
pull
Entries 94
Mean 7.657
Std Dev 0
pull1D
Entries 94
Mean −0.01387
Std Dev 1.018

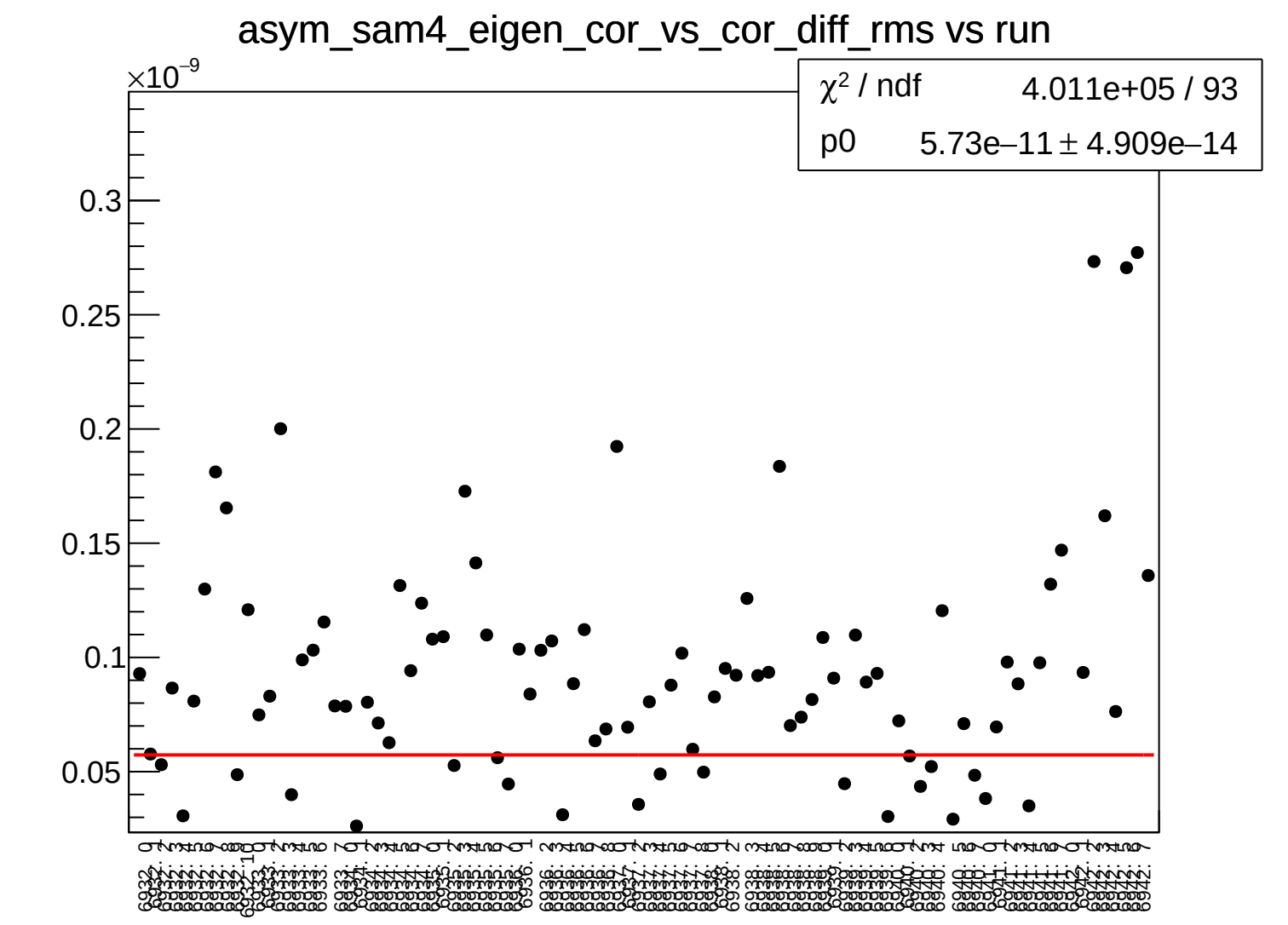

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.154e+04 / 93
p0 124.2 ± 0.09407
300
250
200
150
100

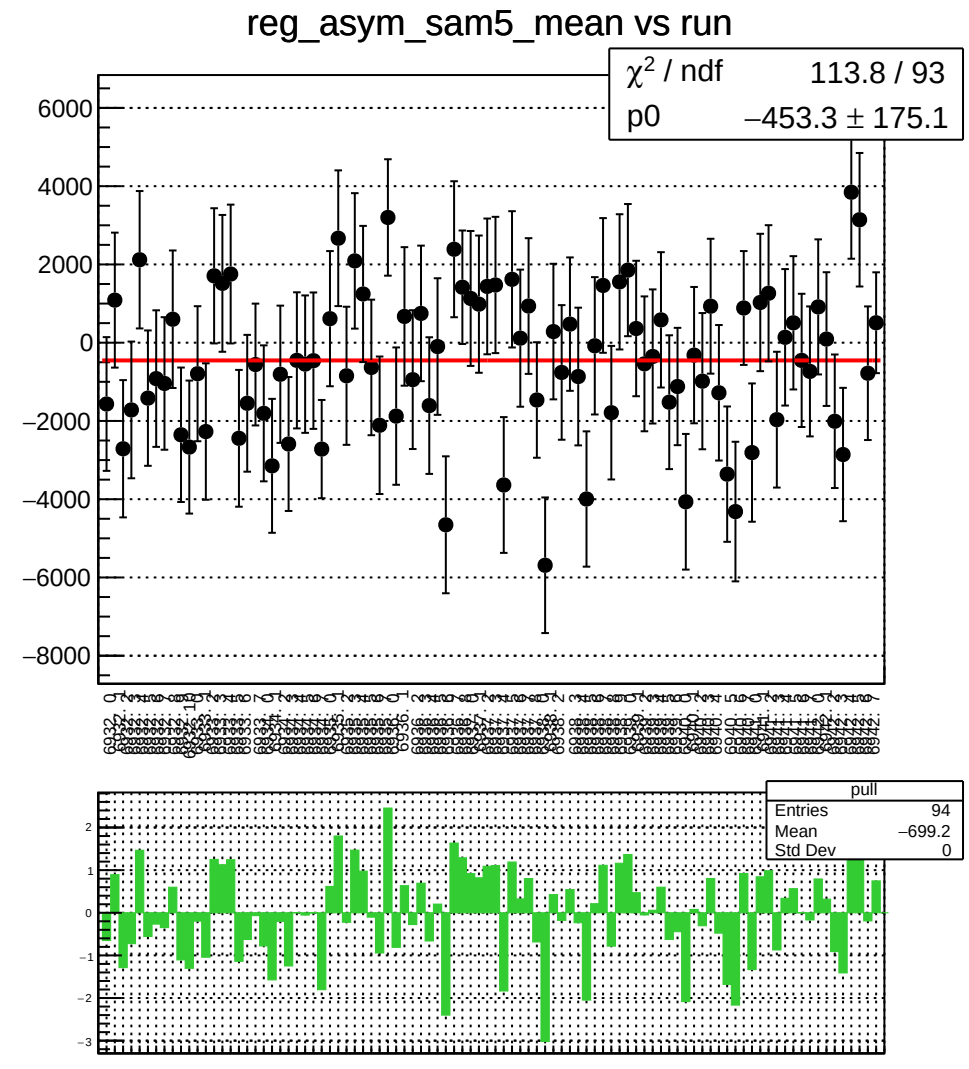

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.07729 ± 0.133
pull
Entries 94
Mean 7.657
Std Dev 0
pull1D
Entries 94
Mean −0.01387
Std Dev 1.018

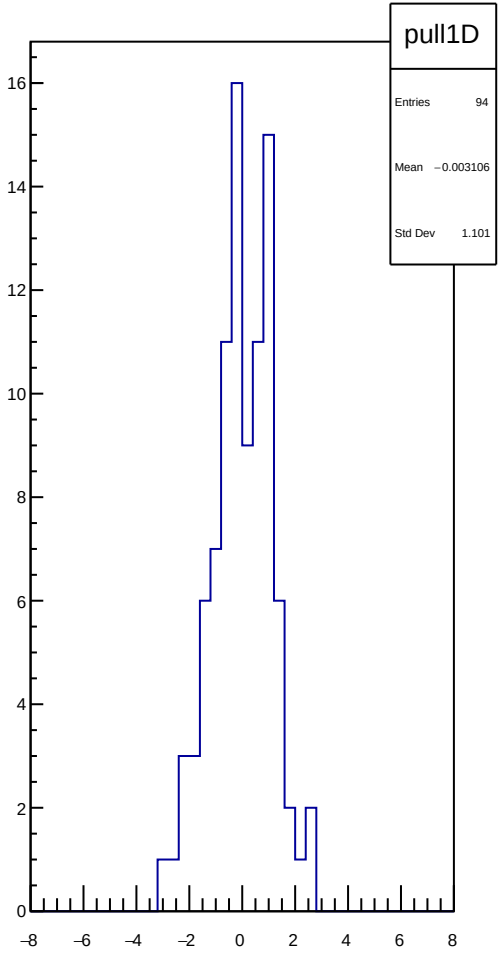

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.154e+04 / 93
p0 124.2 ± 0.09407
300
250
200
150
100

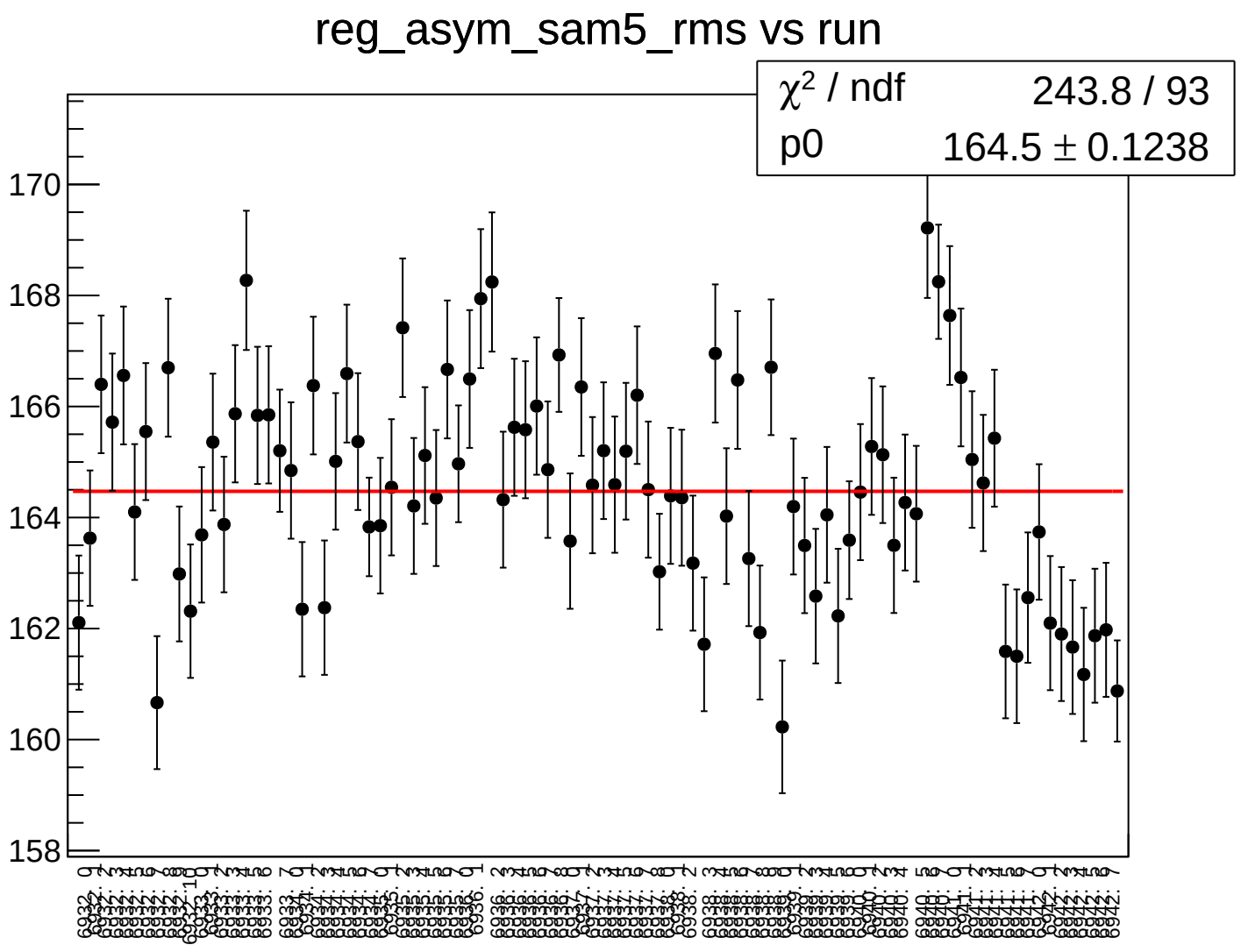

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.44 / 93
p0 −8.88e−14 ± 6.942e−14
pull
Entries 94
Mean 150.6
Std Dev 0

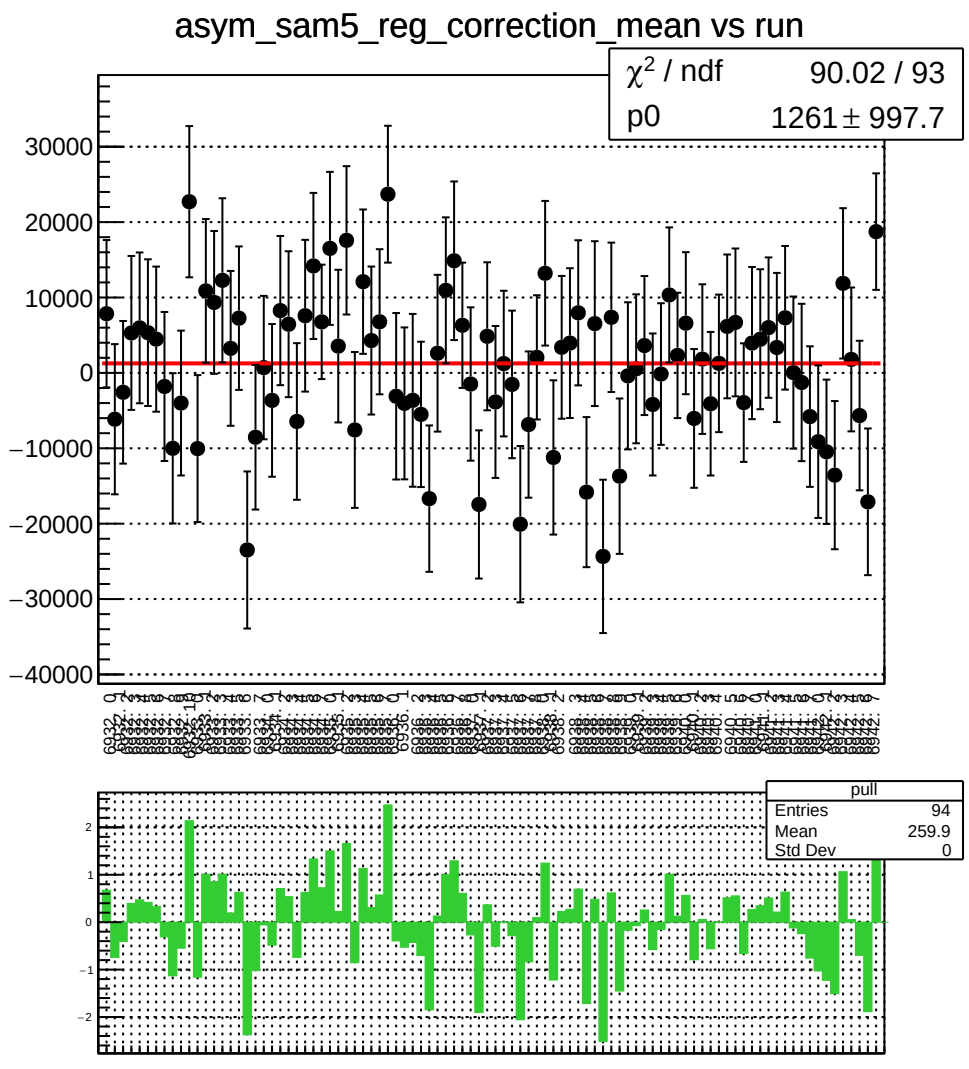

pull1D
Entries 94
Mean 0.03695
Std Dev 0.9069

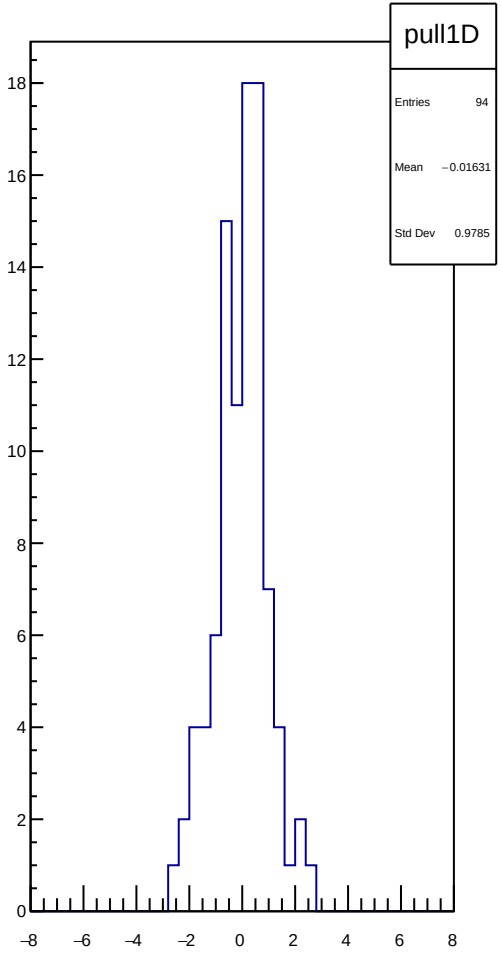

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.011e+05 / 93
p0 5.73e−11 ± 4.909e−14
0.3
0.25
0.2
0.15
0.1
0.05

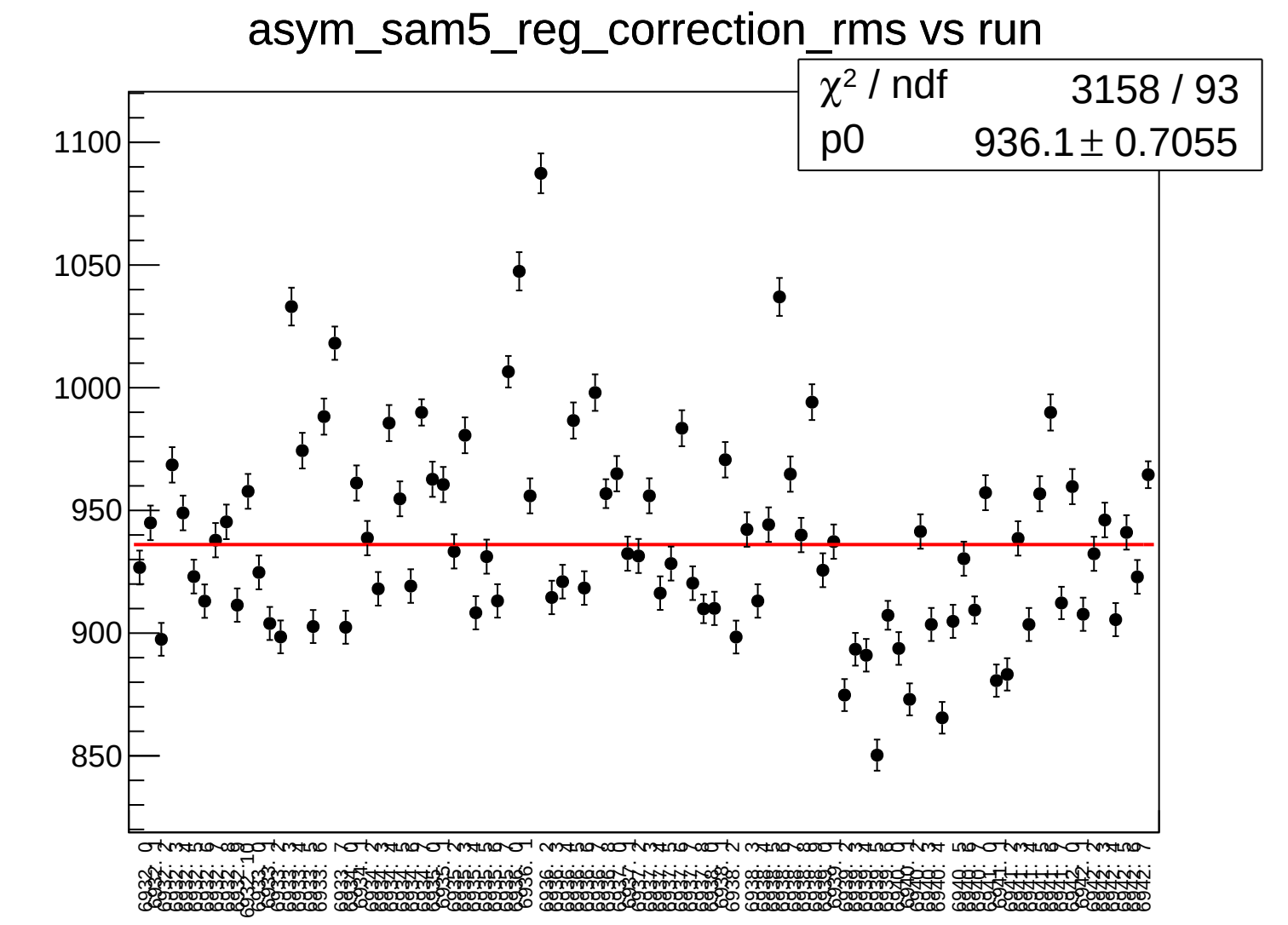

reg_asym_sam5_mean vs run
χ² / ndf 113.8 / 93
p0 −453.3 ± 175.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −699.2
Std Dev 0
2
1
0
−1
−2
−3

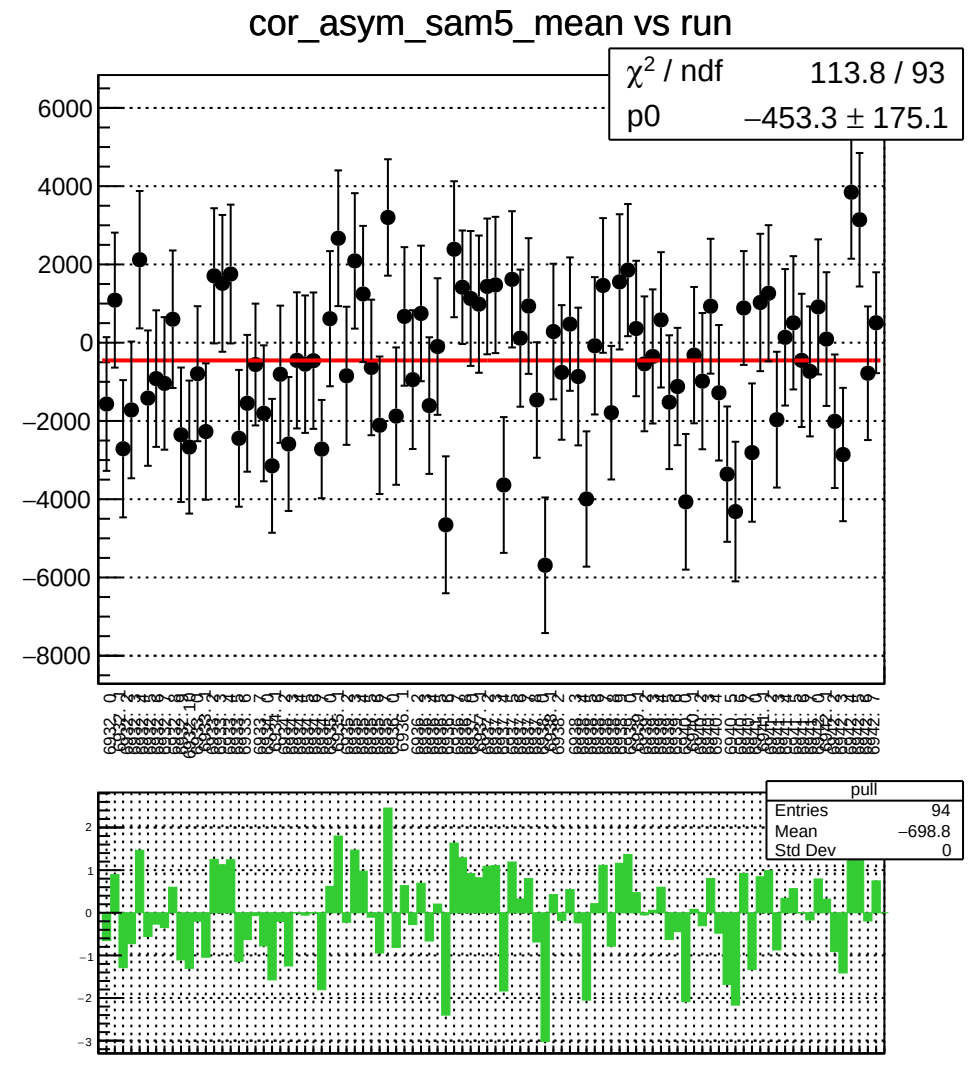

pull1D
Entries 94
Mean −0.003106
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

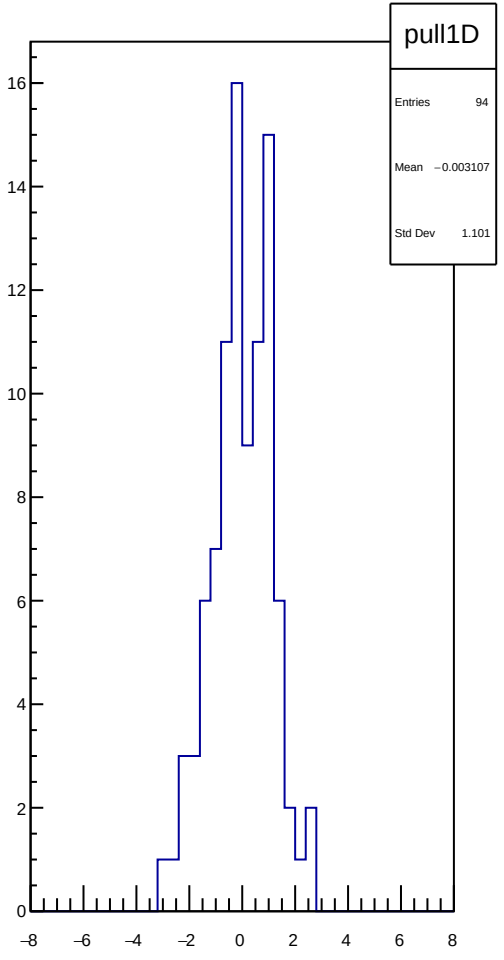

reg_asym_sam5_rms vs run
χ^2 / ndf 243.8 / 93
p0 164.5 ± 0.1238
170
168
166
164
162
160
158

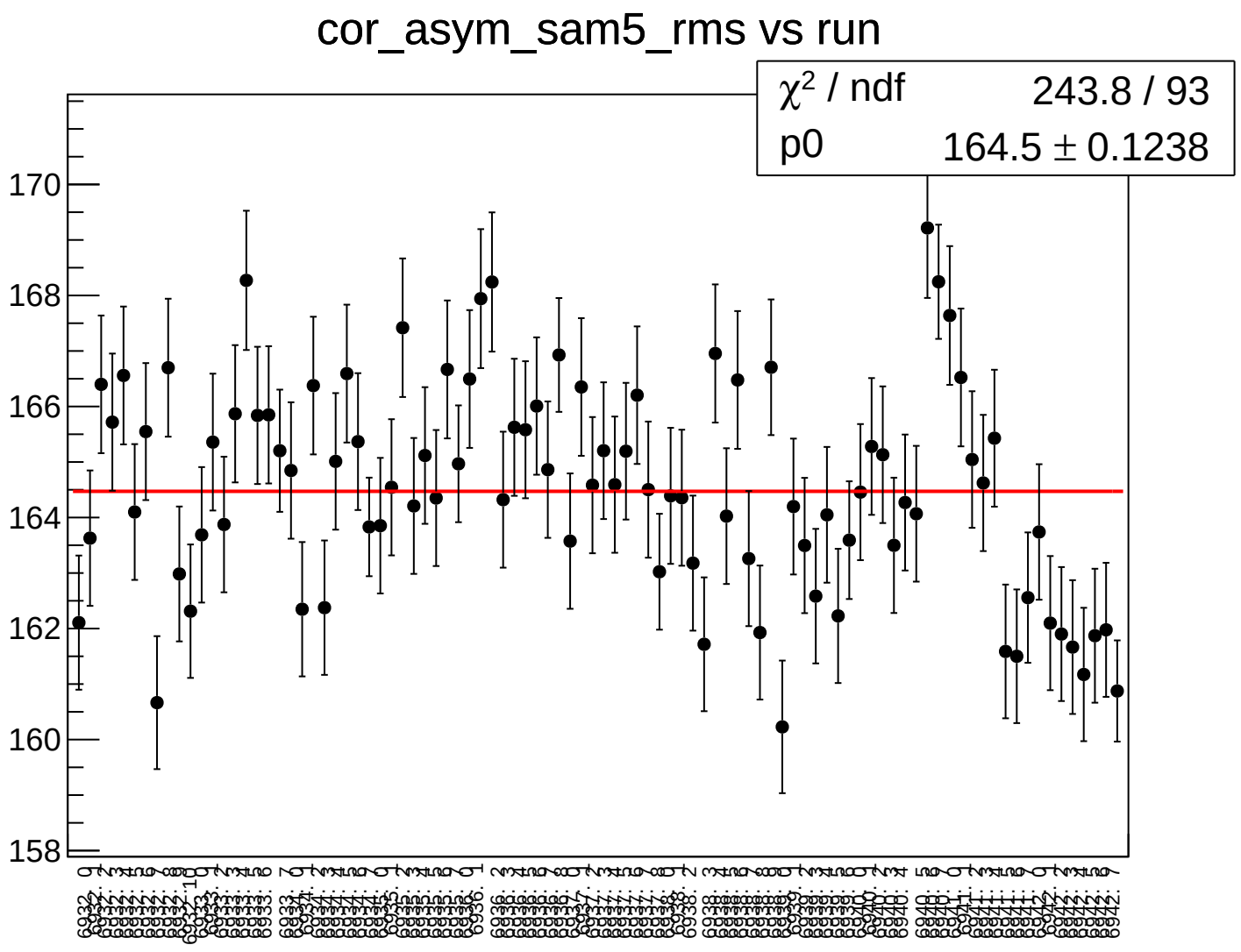

asym_sam5_reg_correction_mean vs run
χ² / ndf 90.02 / 93
p0 1261 ± 997.7
pull
Entries 94
Mean 259.9
Std Dev 0

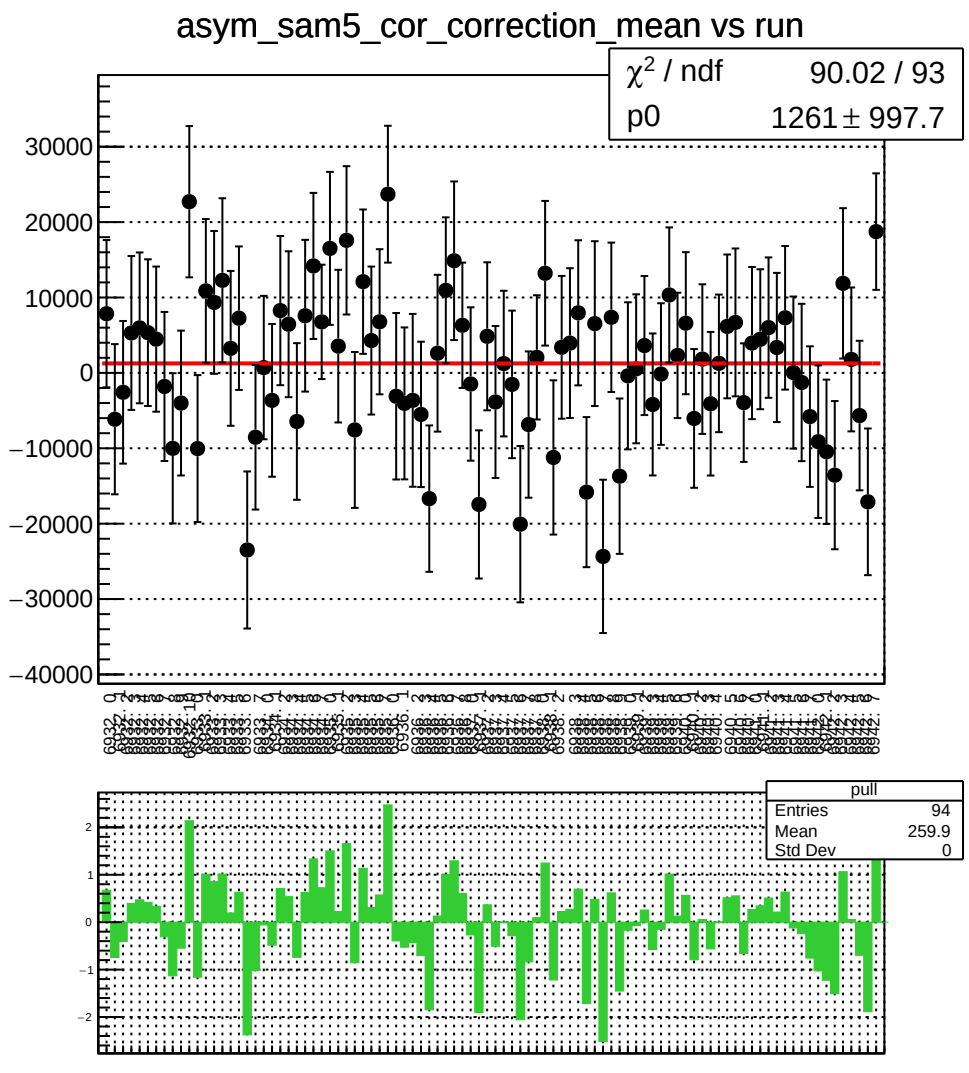

pull1D
Entries 94
Mean −0.01631
Std Dev 0.9785

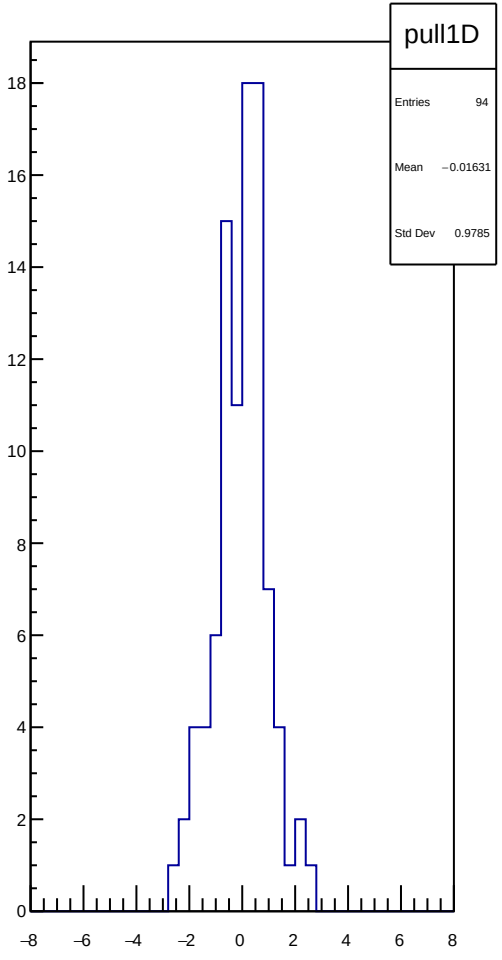

asym_sam5_reg_correction_rms vs run
χ² / ndf 3158 / 93
p0 936.1 ± 0.7055
1100
1050
1000
950
900
850

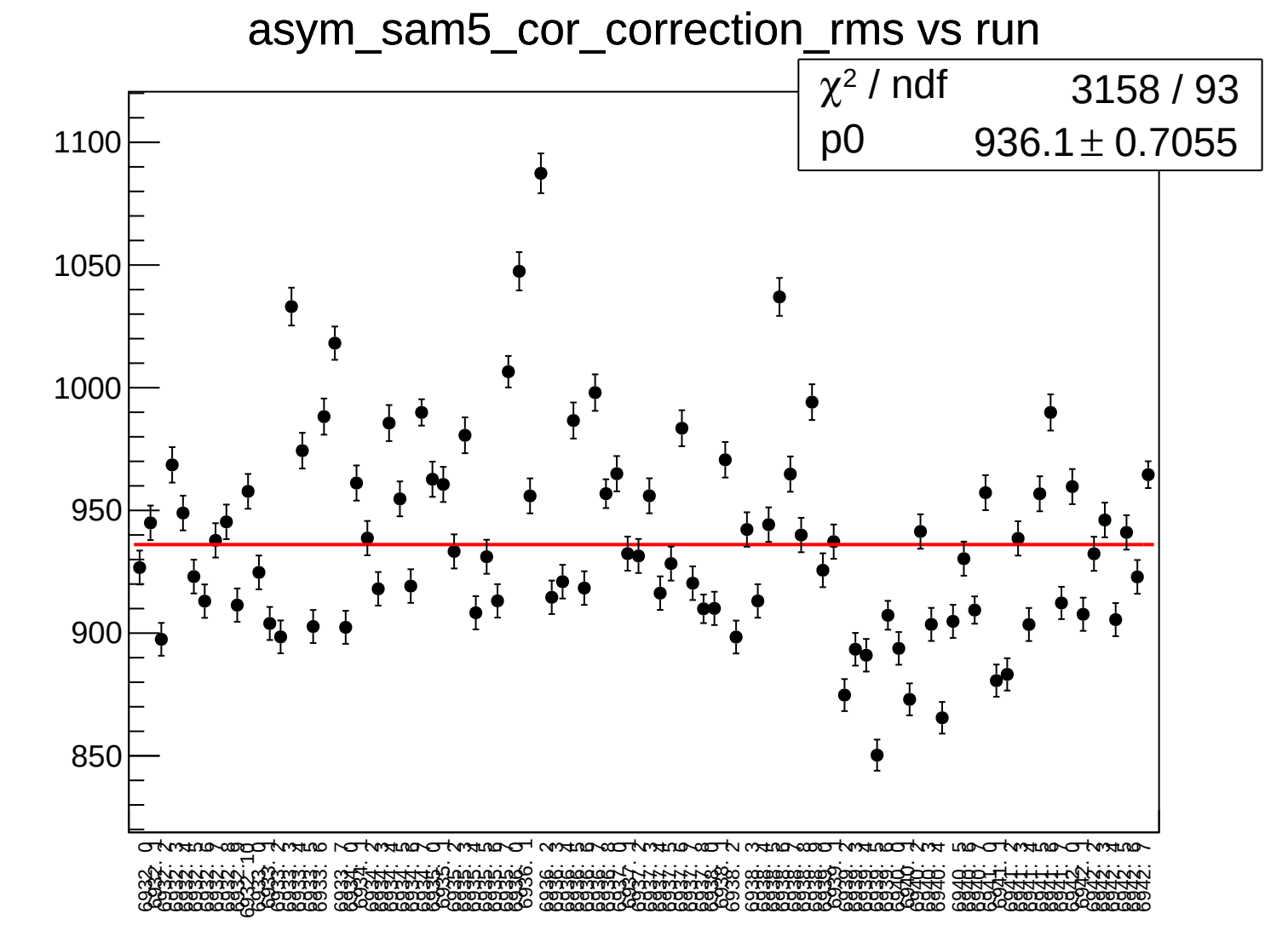

cor_asym_sam5_mean vs run
χ² / ndf 113.8 / 93
p0 −453.3 ± 175.1
pull
Entries 94
Mean −698.8
Std Dev 0

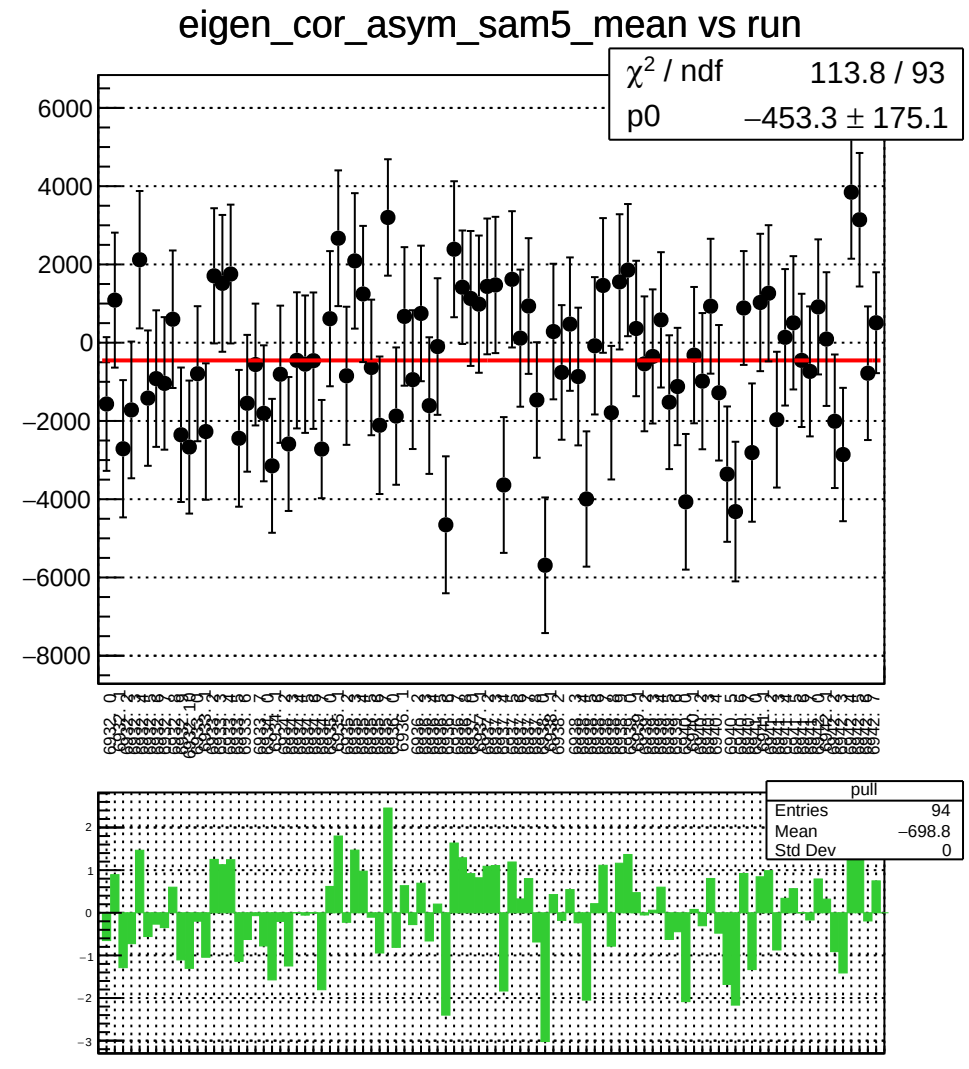

pull1D
Entries 94
Mean −0.003107
Std Dev 1.101

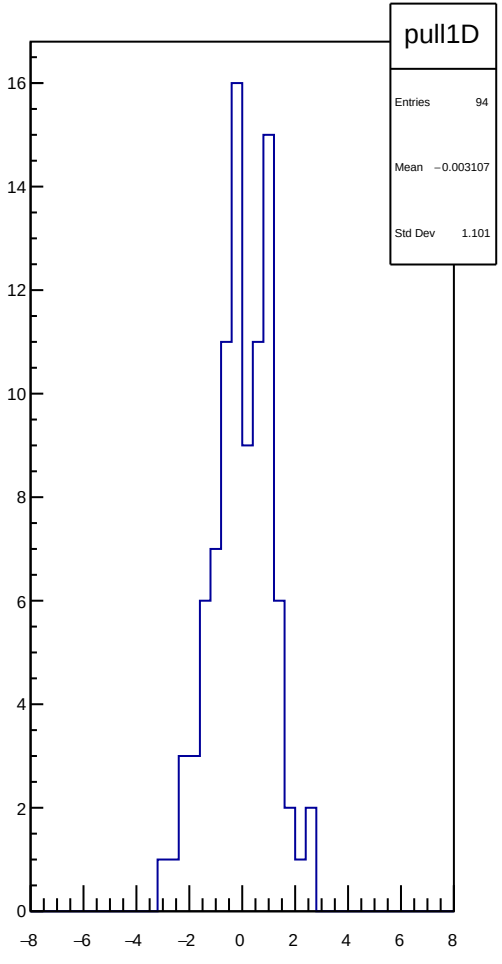

cor_asym_sam5_rms vs run
χ² / ndf 243.8 / 93
p0 164.5 ± 0.1238
170
168
166
164
162
160
158

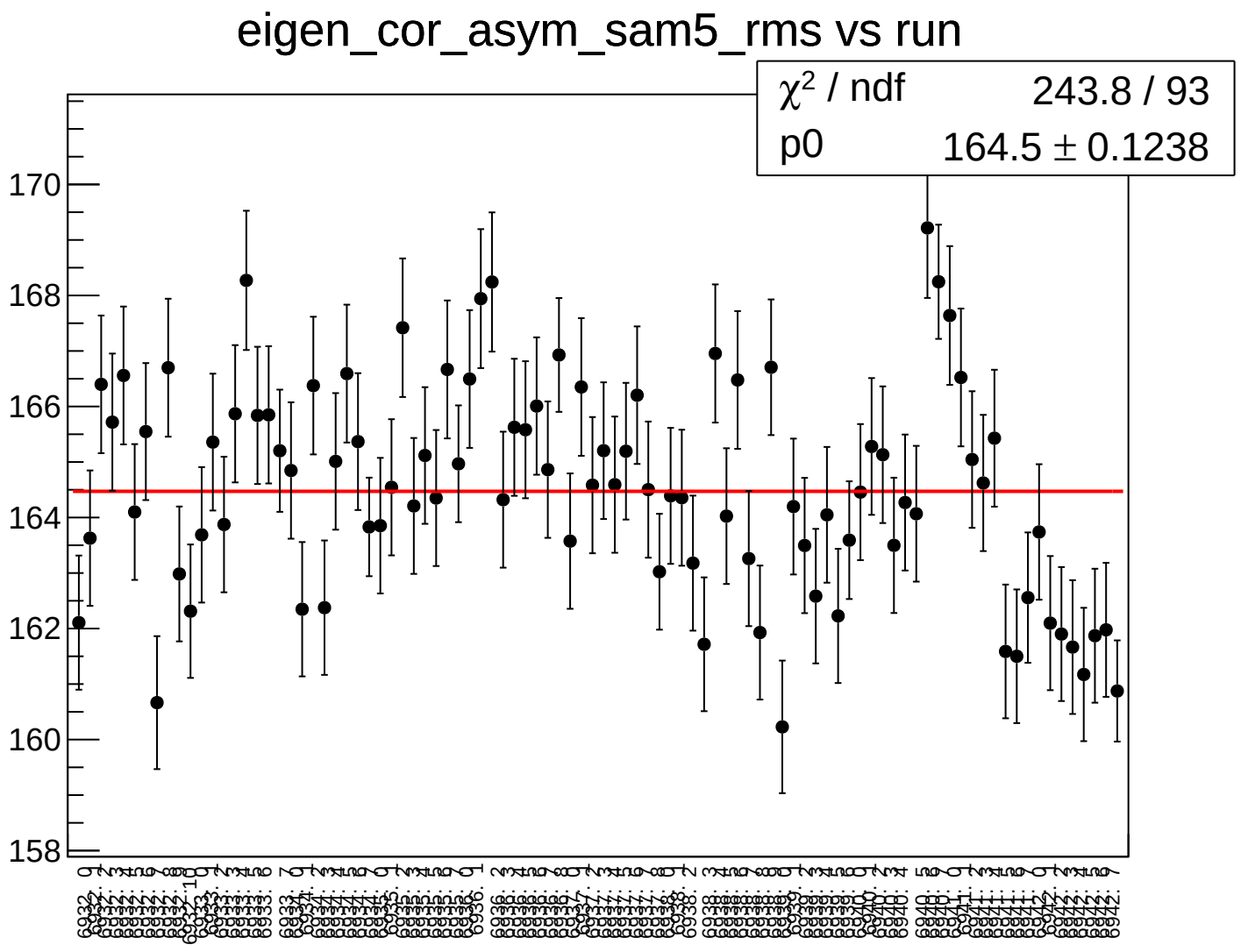

asym_sam5_cor_correction_mean vs run
χ² / ndf 90.02 / 93
p0 1261 ± 997.7
pull
Entries 94
Mean 259.9
Std Dev 0

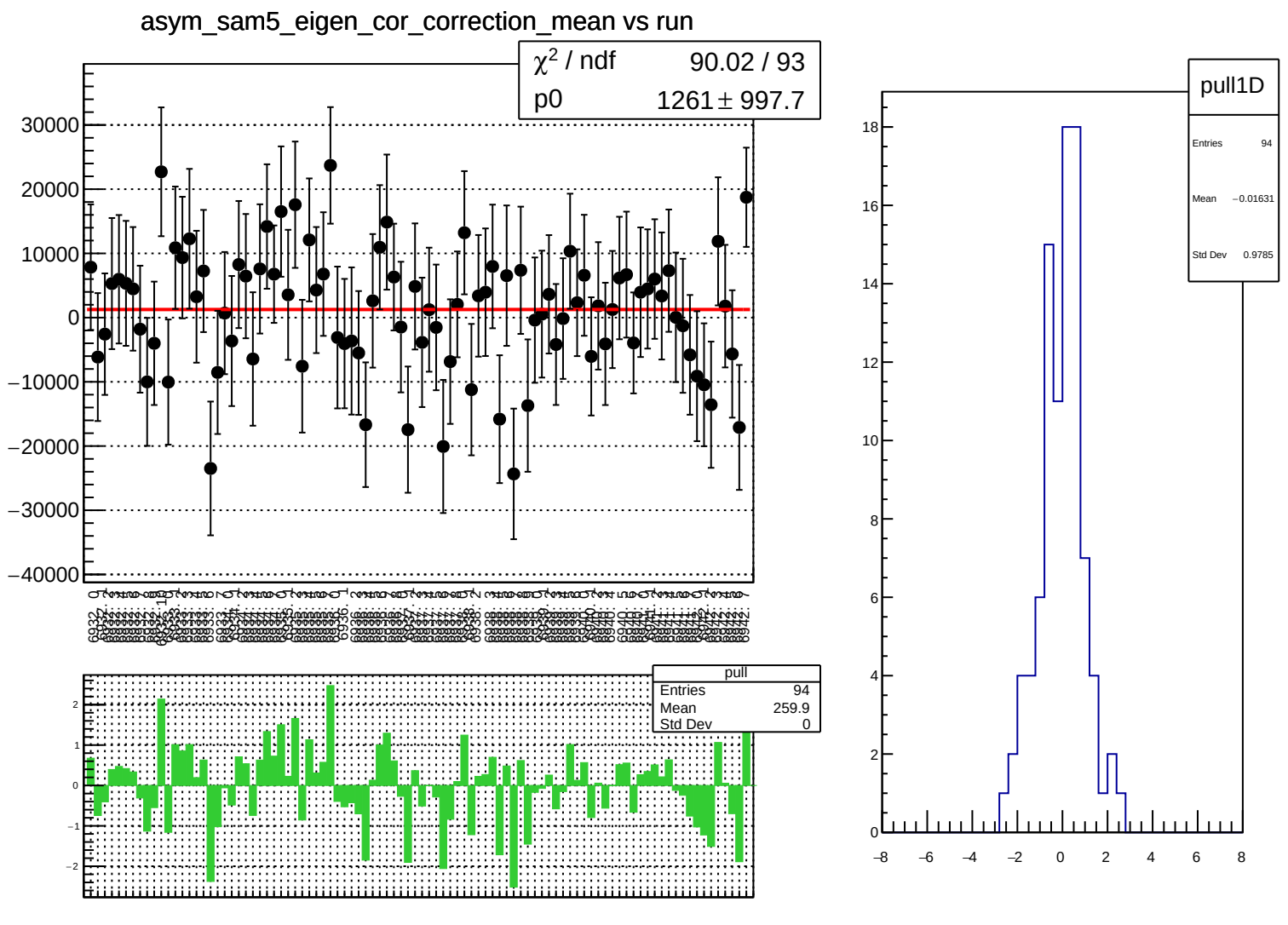

pull1D
Entries 94
Mean −0.01631
Std Dev 0.9785

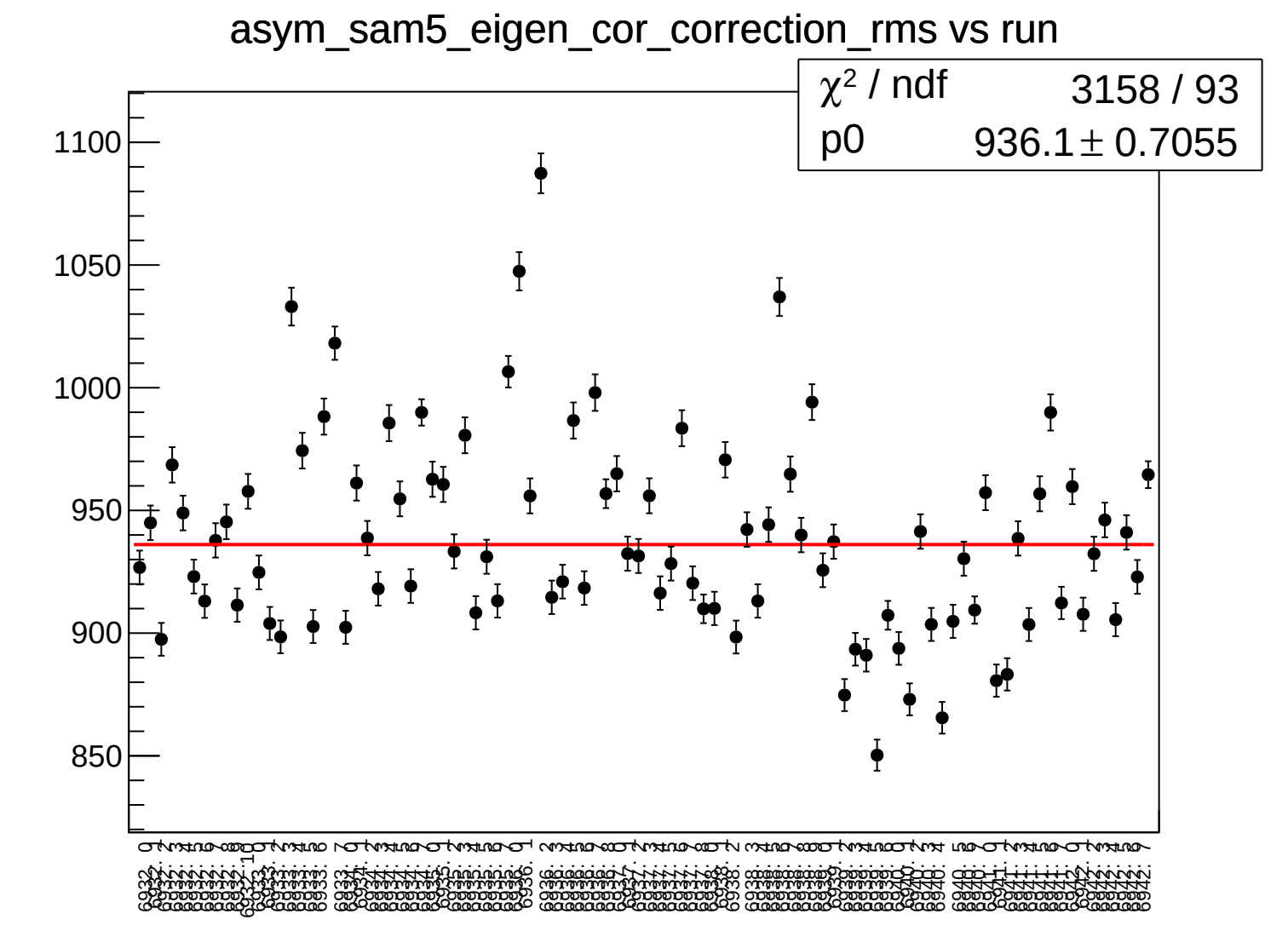

asym_sam5_cor_correction_rms vs run
χ² / ndf 3158 / 93
p0 936.1 ± 0.7055
1100
1050
1000
950
900
850

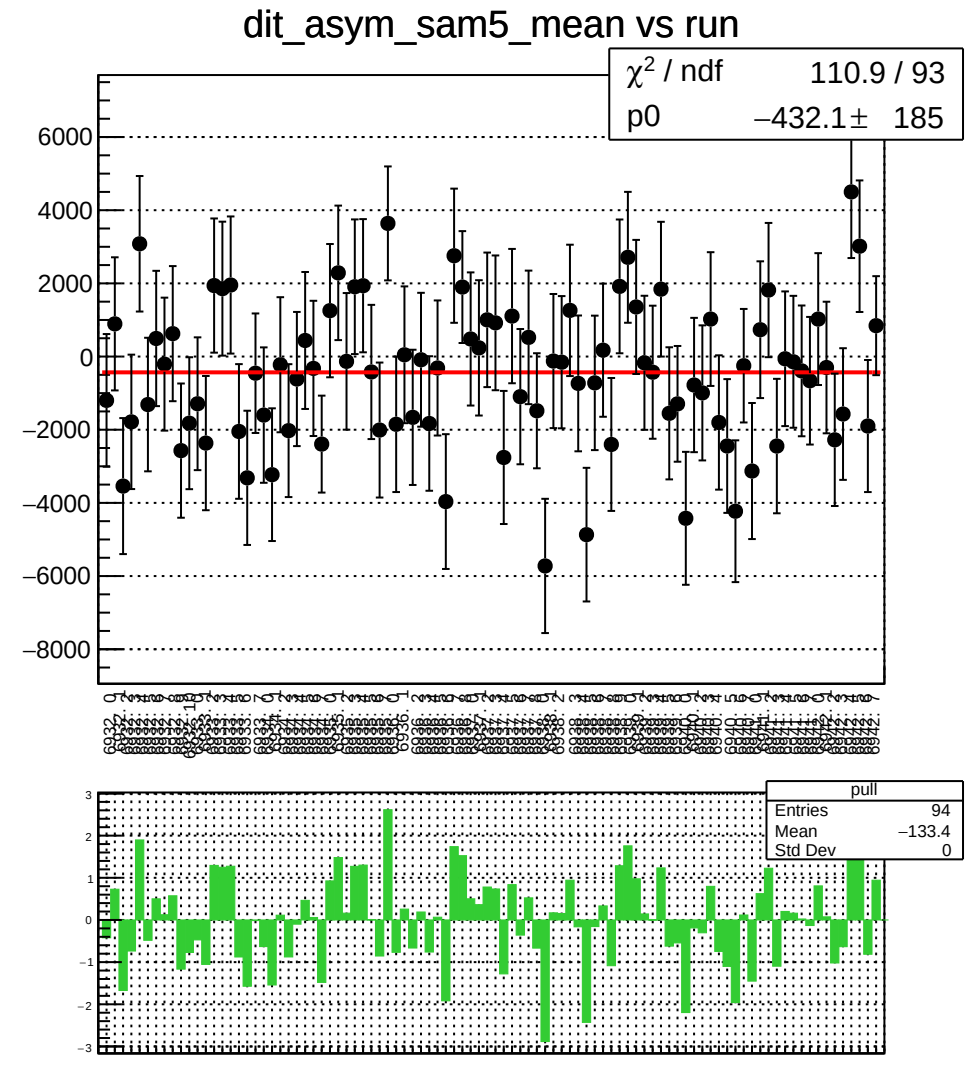

eigen_cor_asym_sam5_mean vs run
χ² / ndf 113.8 / 93
p0 −453.3 ± 175.1
pull
Entries 94
Mean −698.8
Std Dev 0

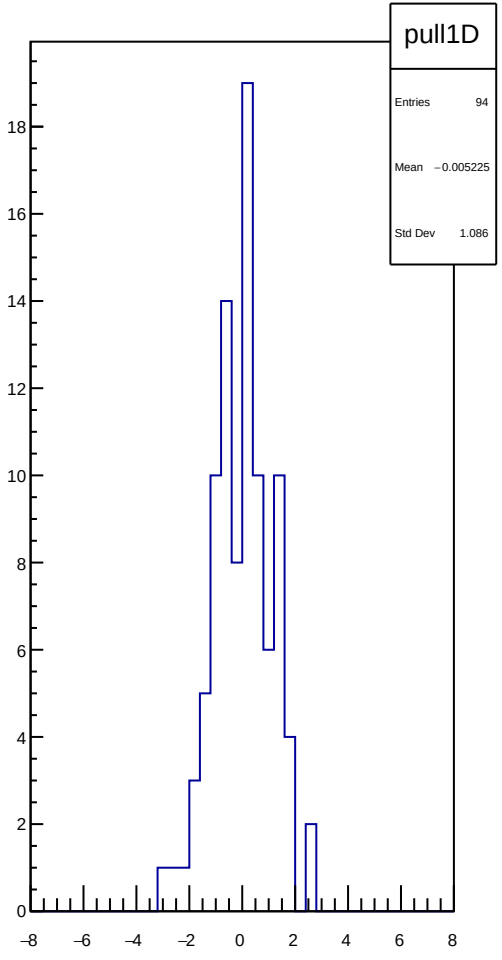

pull1D
Entries 94
Mean −0.003107
Std Dev 1.101

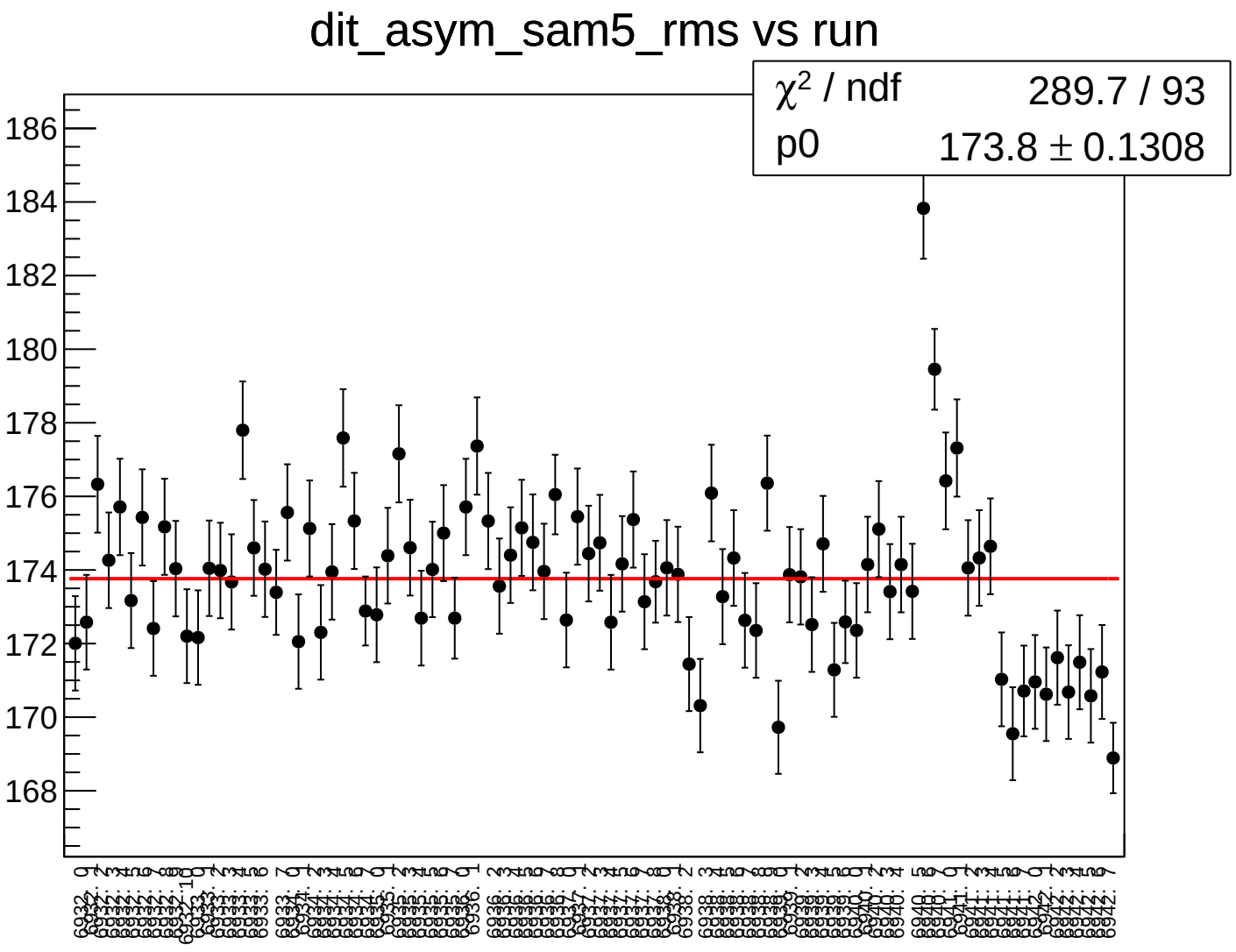

eigen_cor_asym_sam5_rms vs run
χ² / ndf 243.8 / 93
p0 164.5 ± 0.1238
170
168
166
164
162
160
158

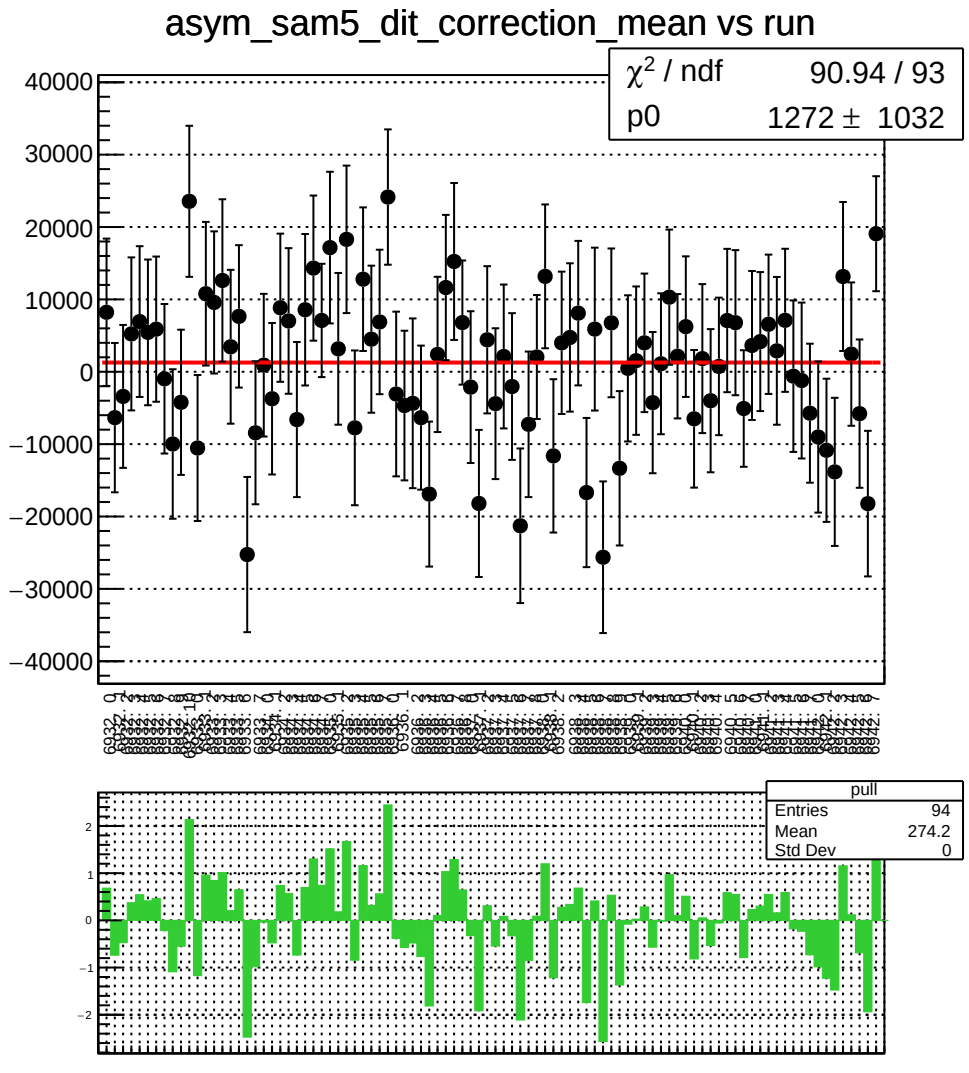

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 90.02 / 93
p0 1261 ± 997.7
pull
Entries 94
Mean 259.9
Std Dev 0
pull1D
Entries 94
Mean −0.01631
Std Dev 0.9785

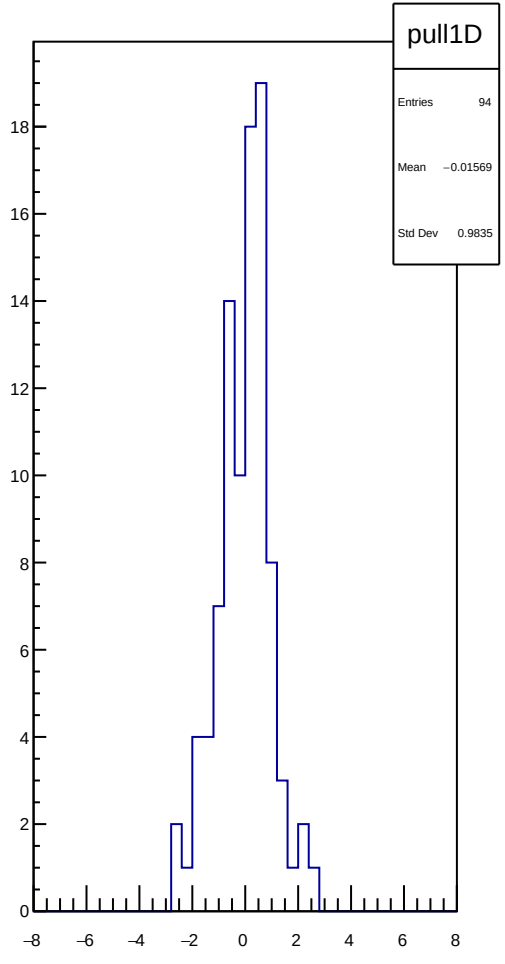

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 3158 / 93
p0 936.1 ± 0.7055
1100
1050
1000
950
900
850

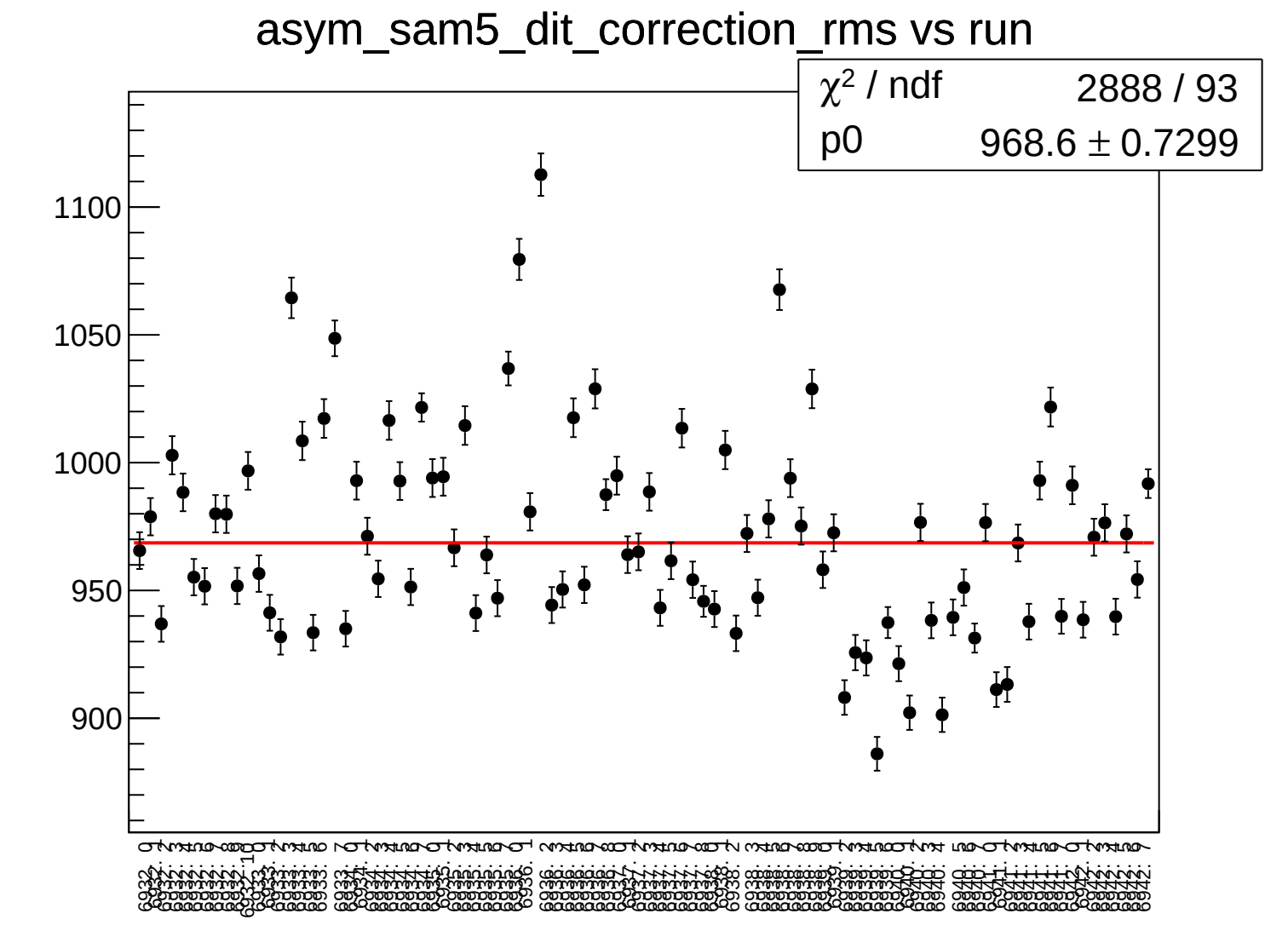

dit_asym_sam5_mean vs run
χ² / ndf 110.9 / 93
p0 −432.1 ± 185
pull
Entries 94
Mean −133.4
Std Dev 0

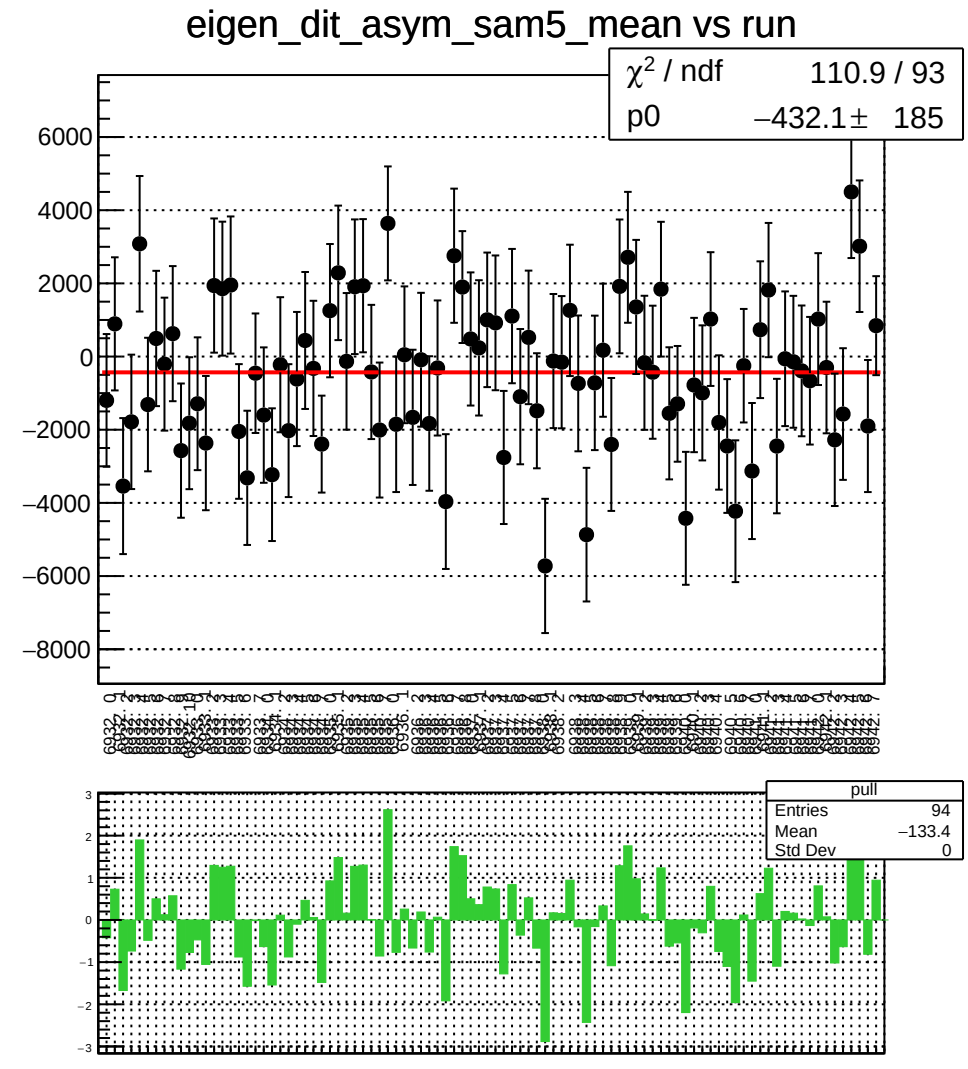

pull1D
Entries 94
Mean −0.005225
Std Dev 1.086

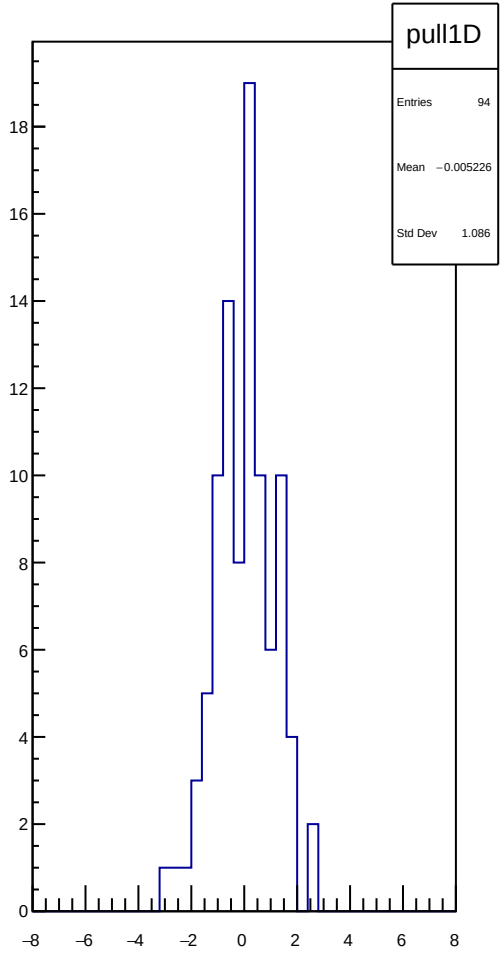

dit_asym_sam5_rms vs run
χ² / ndf 289.7 / 93
p0 173.8 ± 0.1308
186
184
182
180
178
176
174
172
170
168

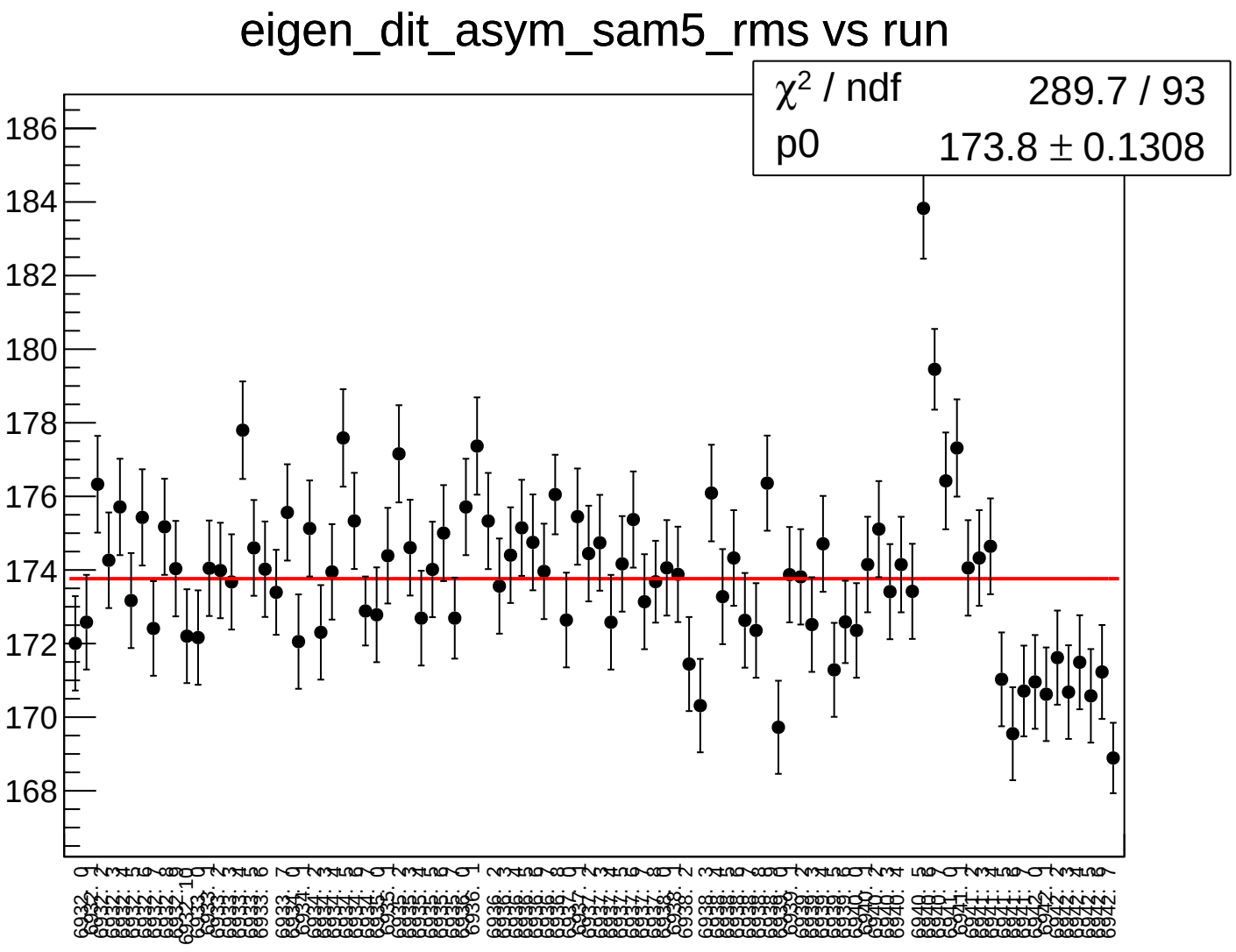

asym_sam5_dit_correction_mean vs run
χ² / ndf 90.94 / 93
p0 1272 ± 1032
pull
Entries 94
Mean 274.2
Std Dev 0

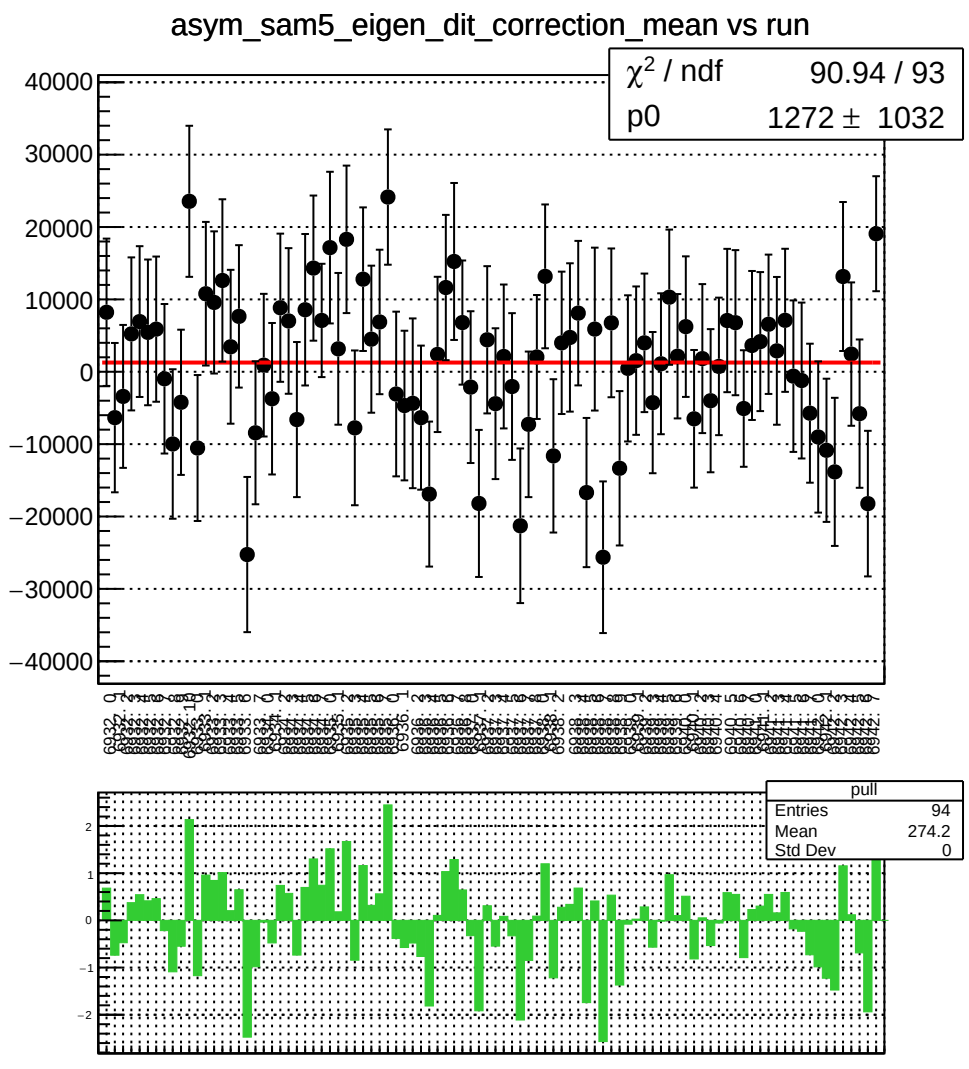

pull1D
Entries 94
Mean −0.01569
Std Dev 0.9835

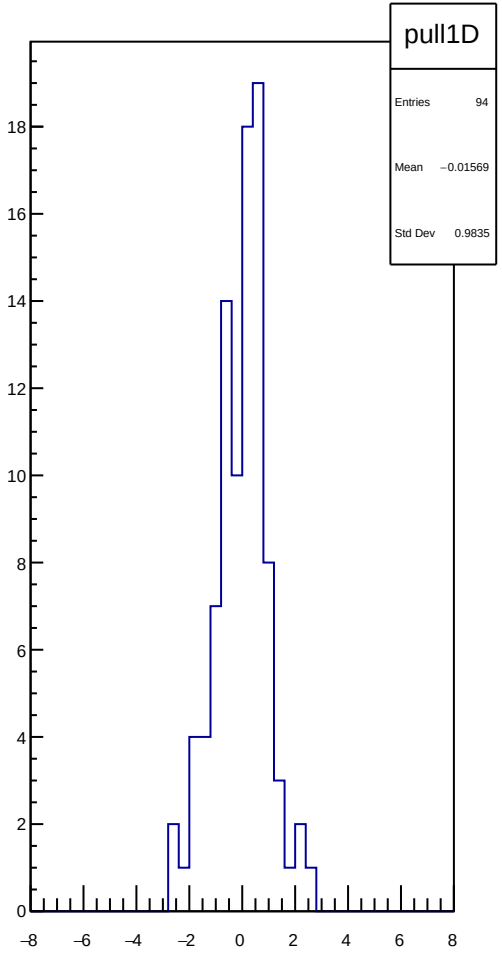

asym_sam5_dit_correction_rms vs run
χ² / ndf 2888 / 93
p0 968.6 ± 0.7299
1100
1050
1000
950
900

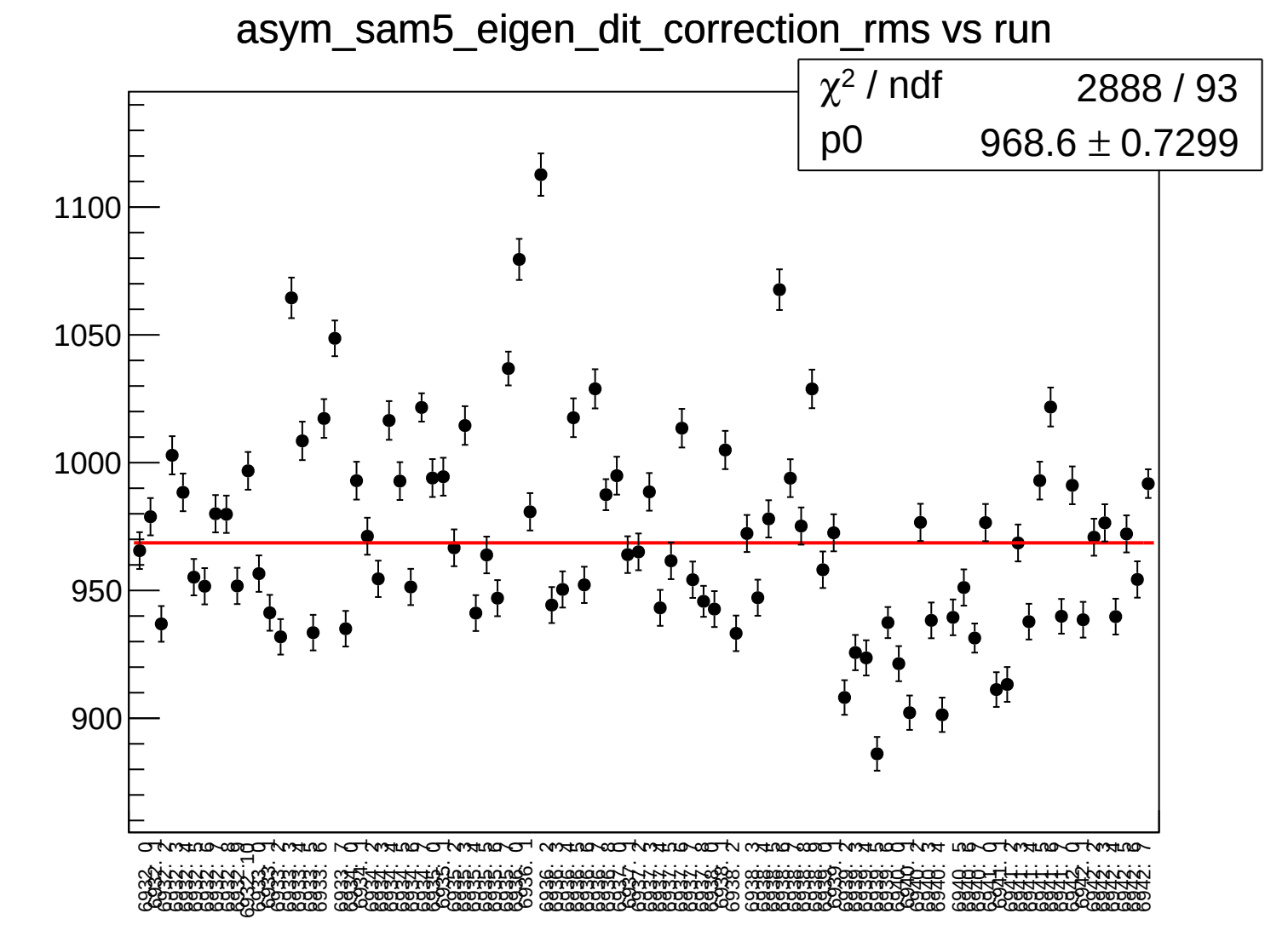

eigen_dit_asym_sam5_mean vs run
χ² / ndf 110.9 / 93
p0 −432.1 ± 185
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −133.4
Std Dev 0
3
2
1
0
−1
−2
−3

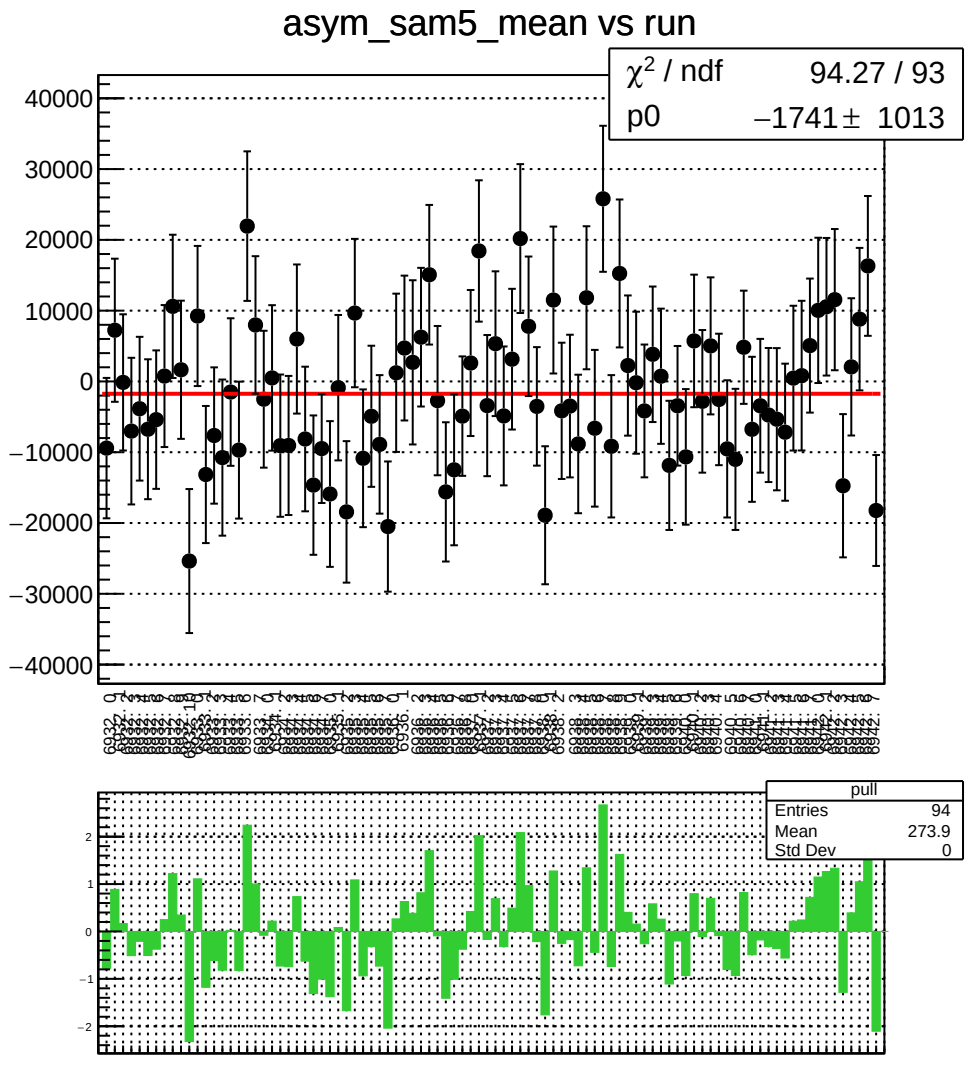

pull1D
Entries 94
Mean −0.005226
Std Dev 1.086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

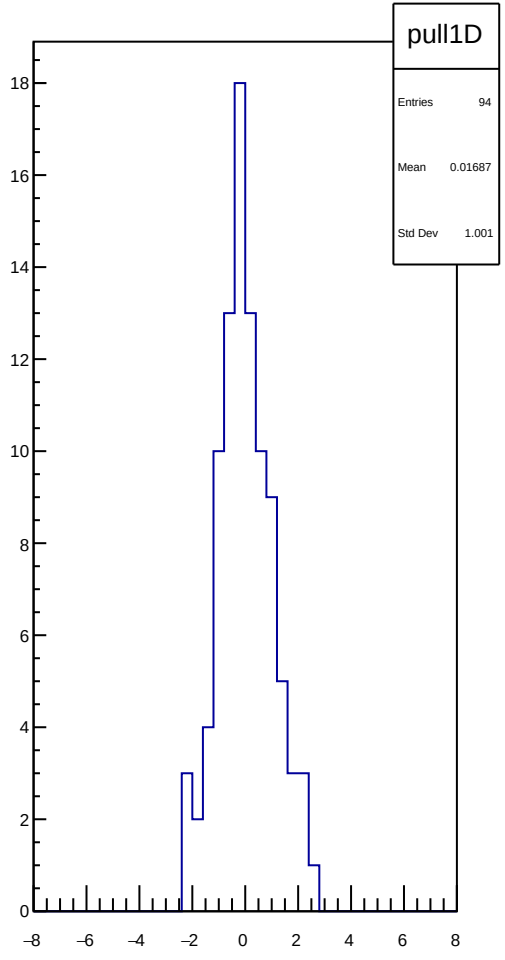

eigen_dit_asym_sam5_rms vs run
χ² / ndf 289.7 / 93
p0 173.8 ± 0.1308
186
184
182
180
178
176
174
172
170
168

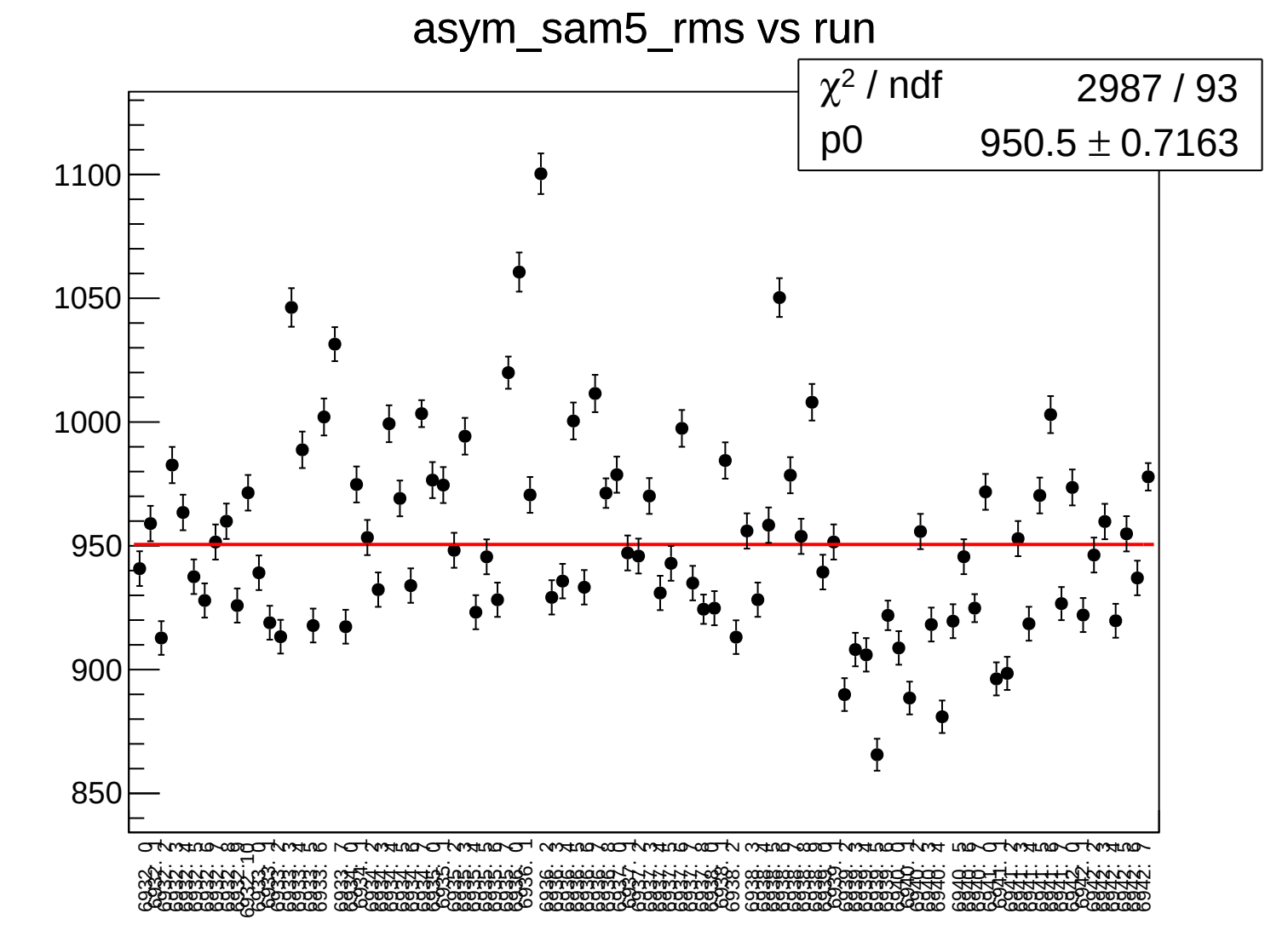

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 90.94 / 93
p0 1272 ± 1032
pull
Entries 94
Mean 274.2
Std Dev 0

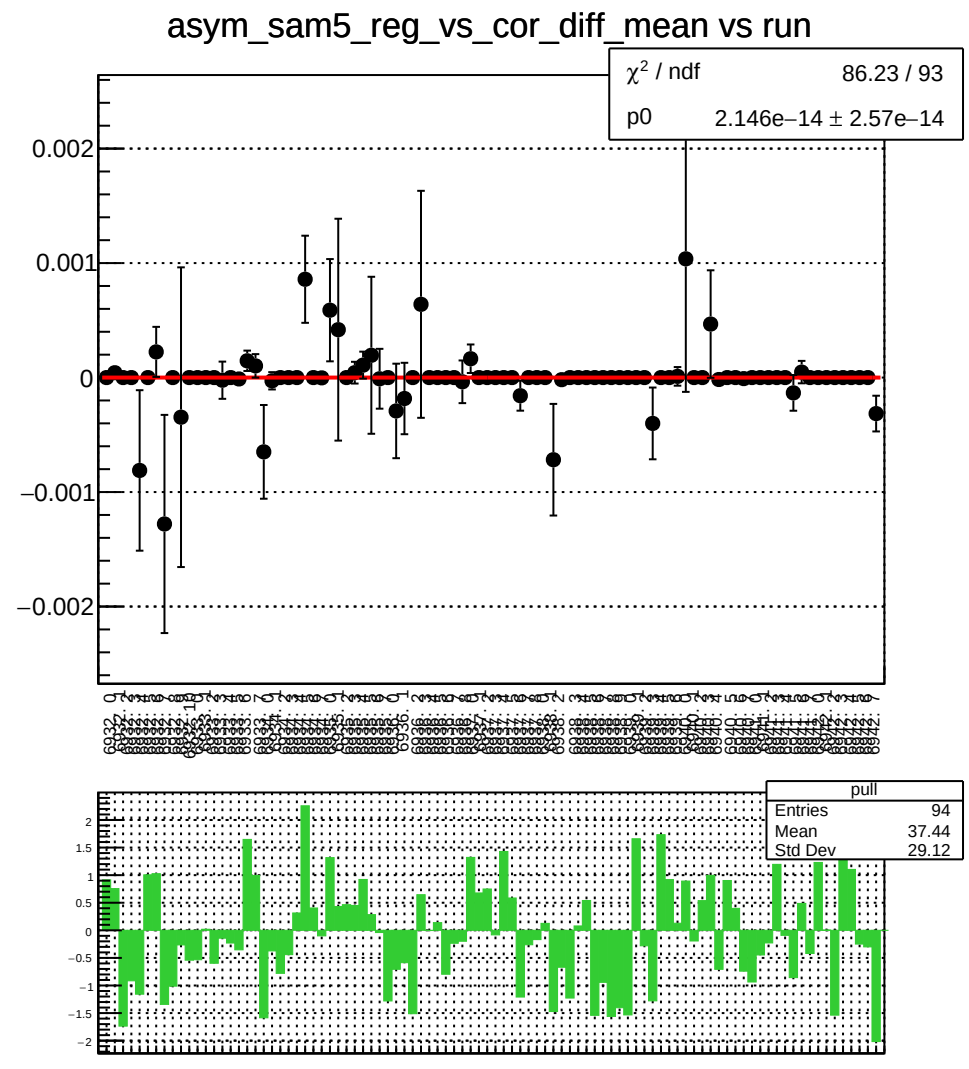

pull1D
Entries 94
Mean −0.01569
Std Dev 0.9835

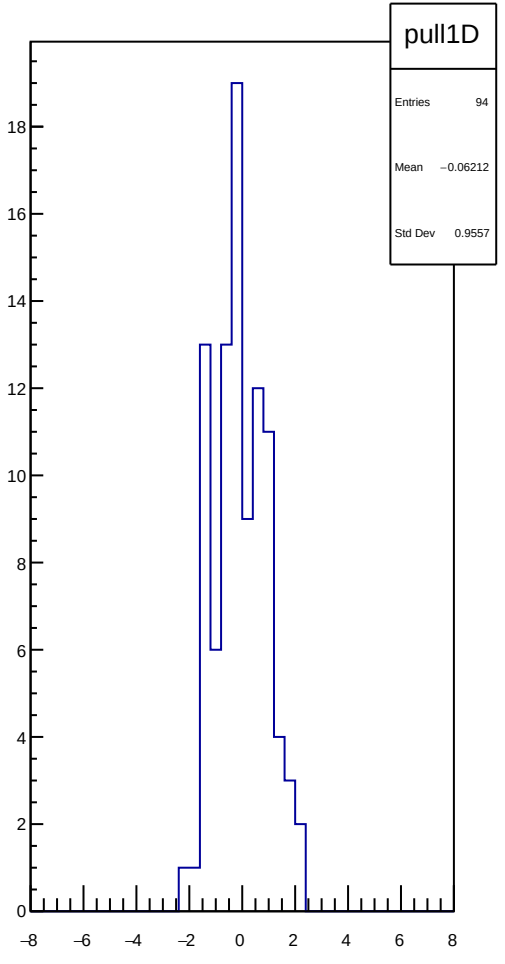

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 2888 / 93
p0 968.6 ± 0.7299
1100
1050
1000
950
900

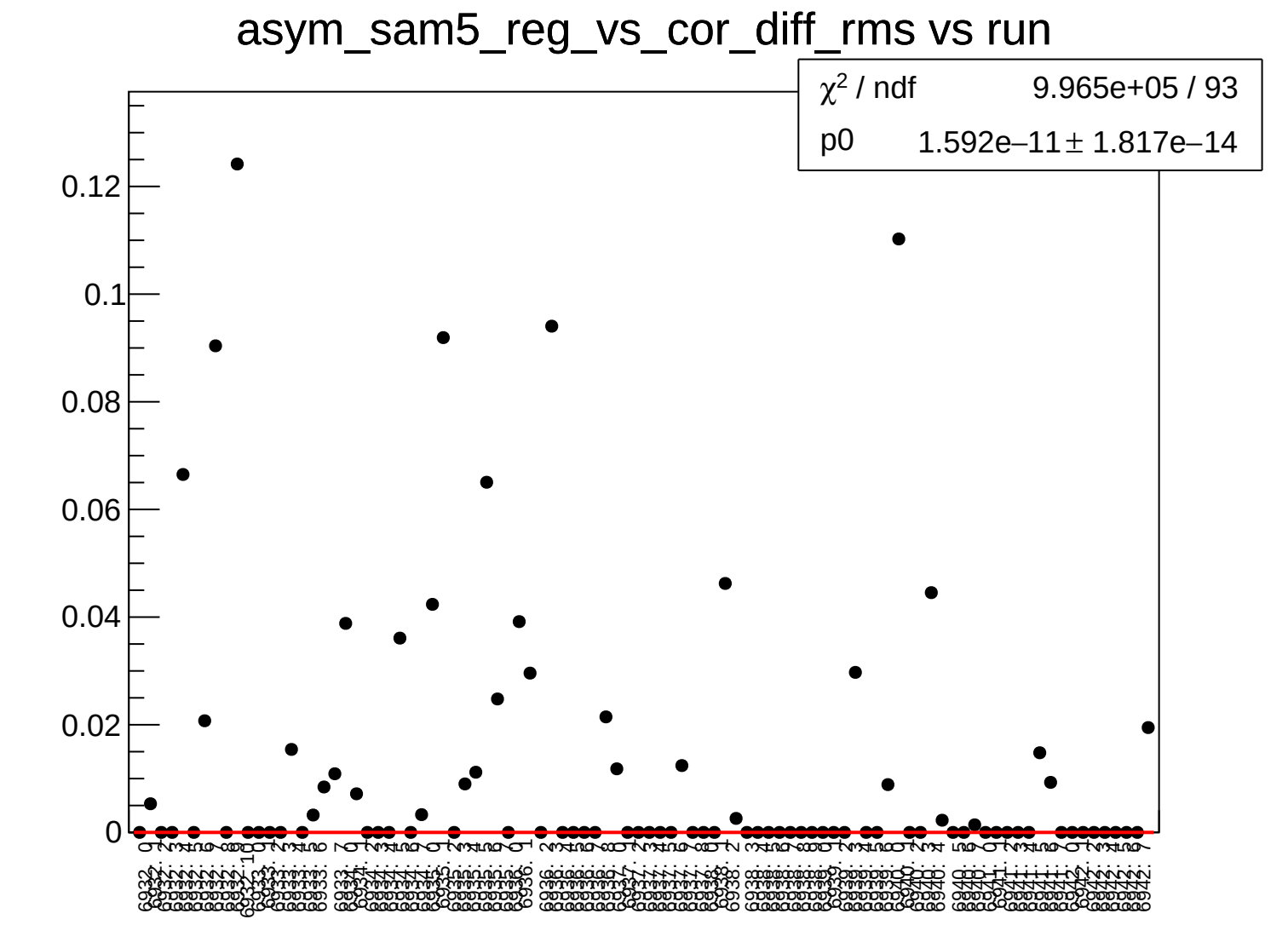

asym_sam5_mean vs run
χ² / ndf 94.27 / 93
p0 −1741 ± 1013
pull
Entries 94
Mean 273.9
Std Dev 0

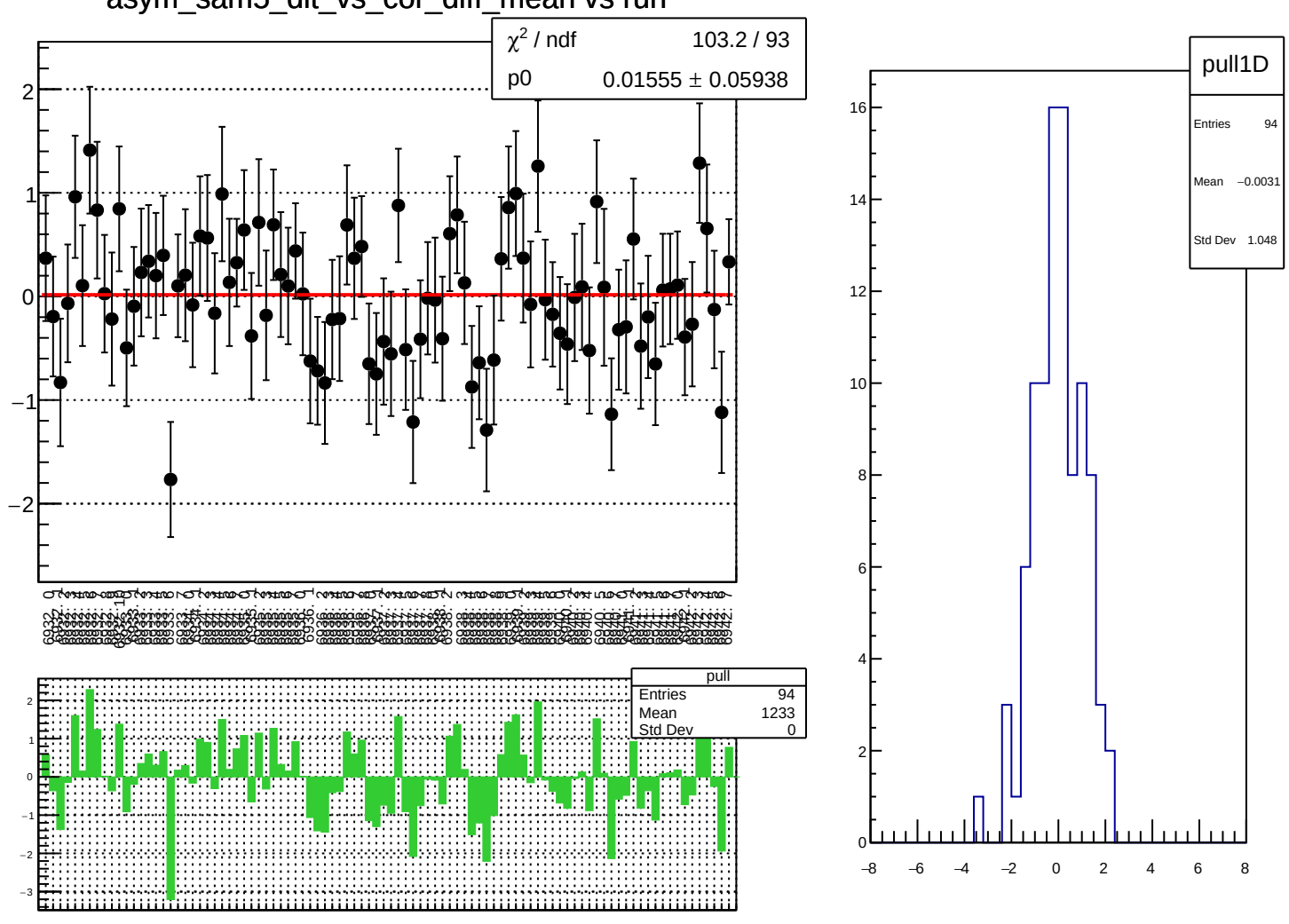

pull1D
Entries 94
Mean 0.01687
Std Dev 1.001

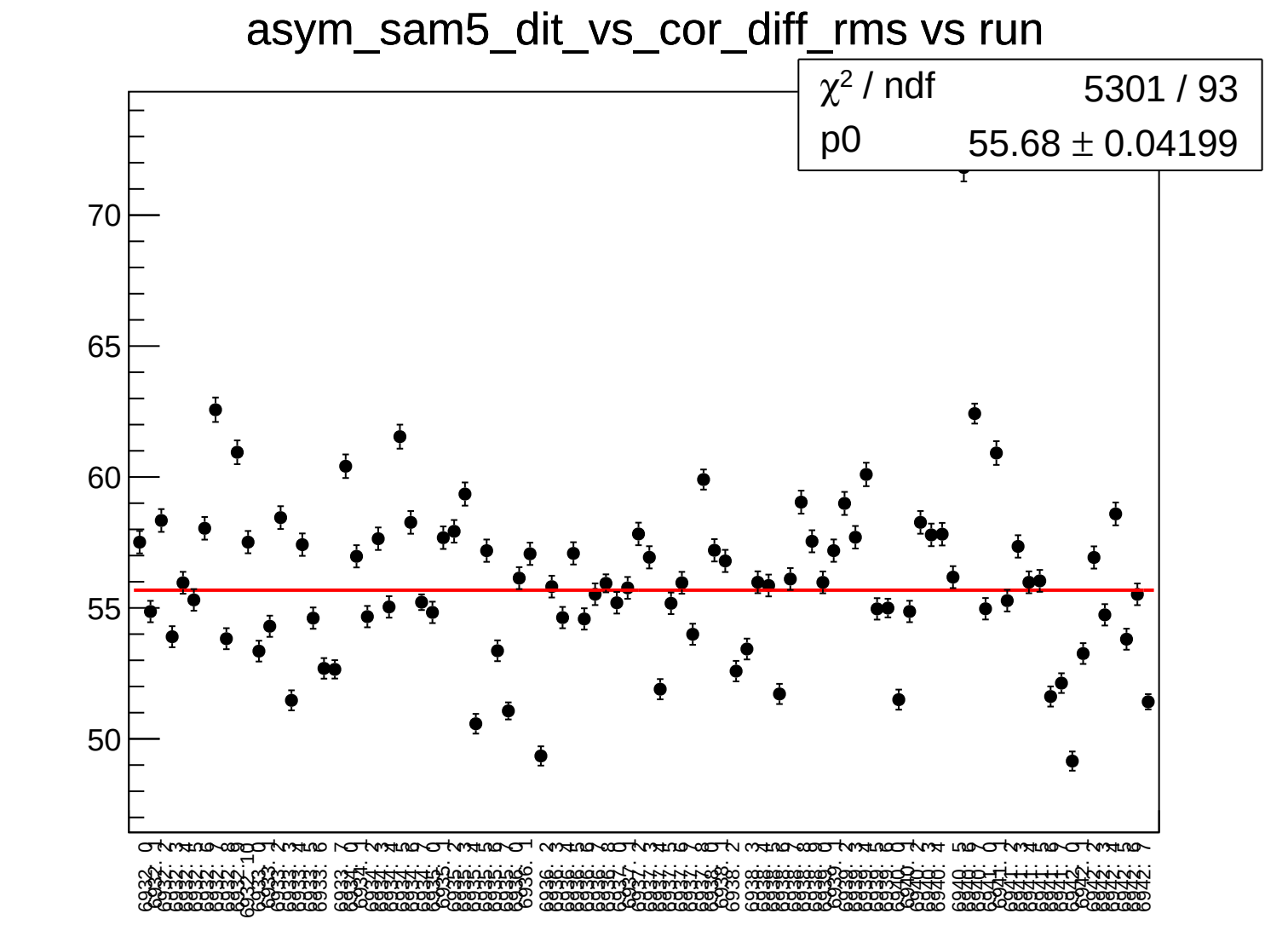

asym_sam5_rms vs run
χ² / ndf 2987 / 93
p0 950.5 ± 0.7163
1100
1050
1000
950
900
850

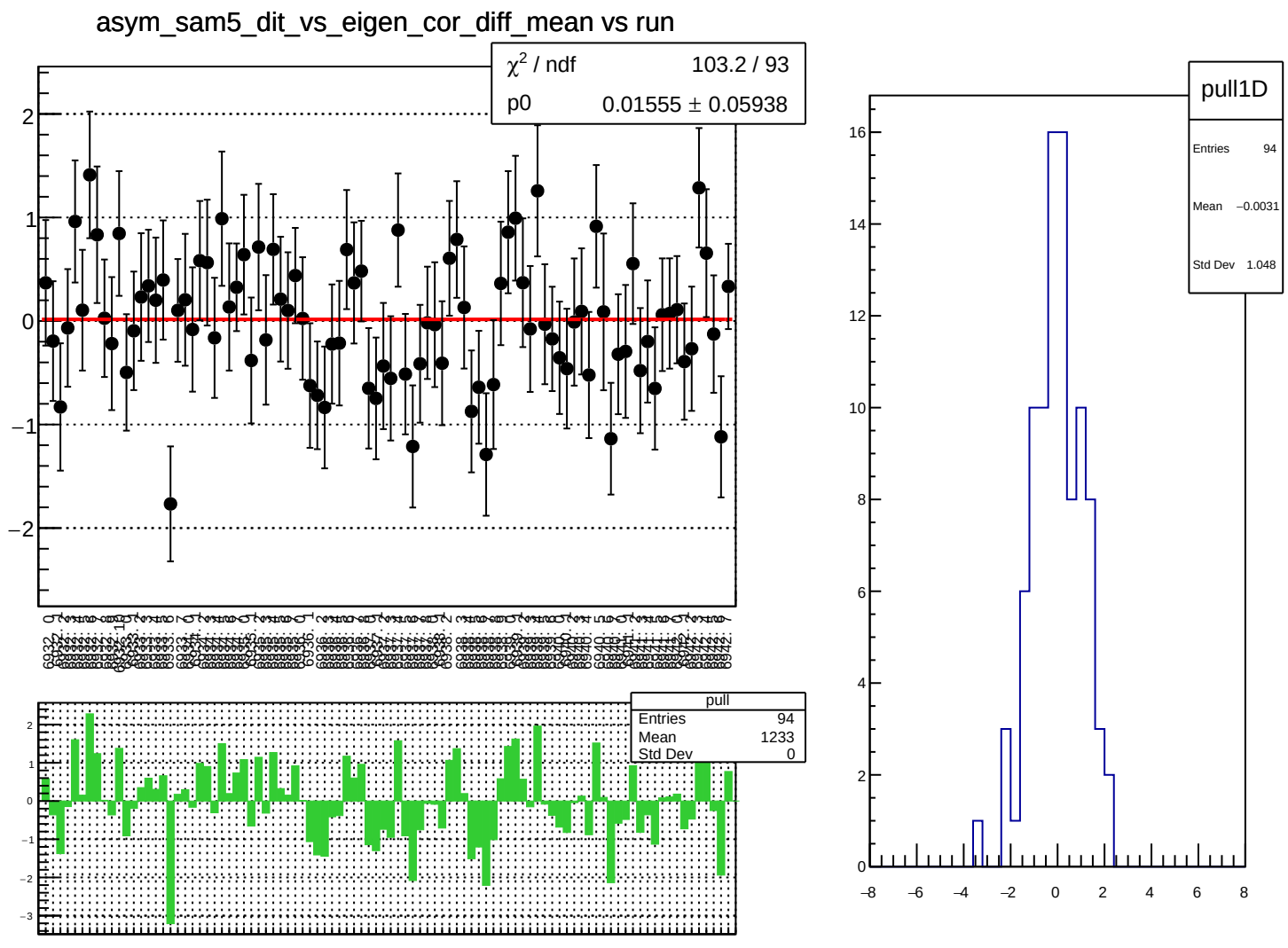

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 86.23 / 93
p0 2.146e−14 ± 2.57e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 94
Mean 37.44
Std Dev 29.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

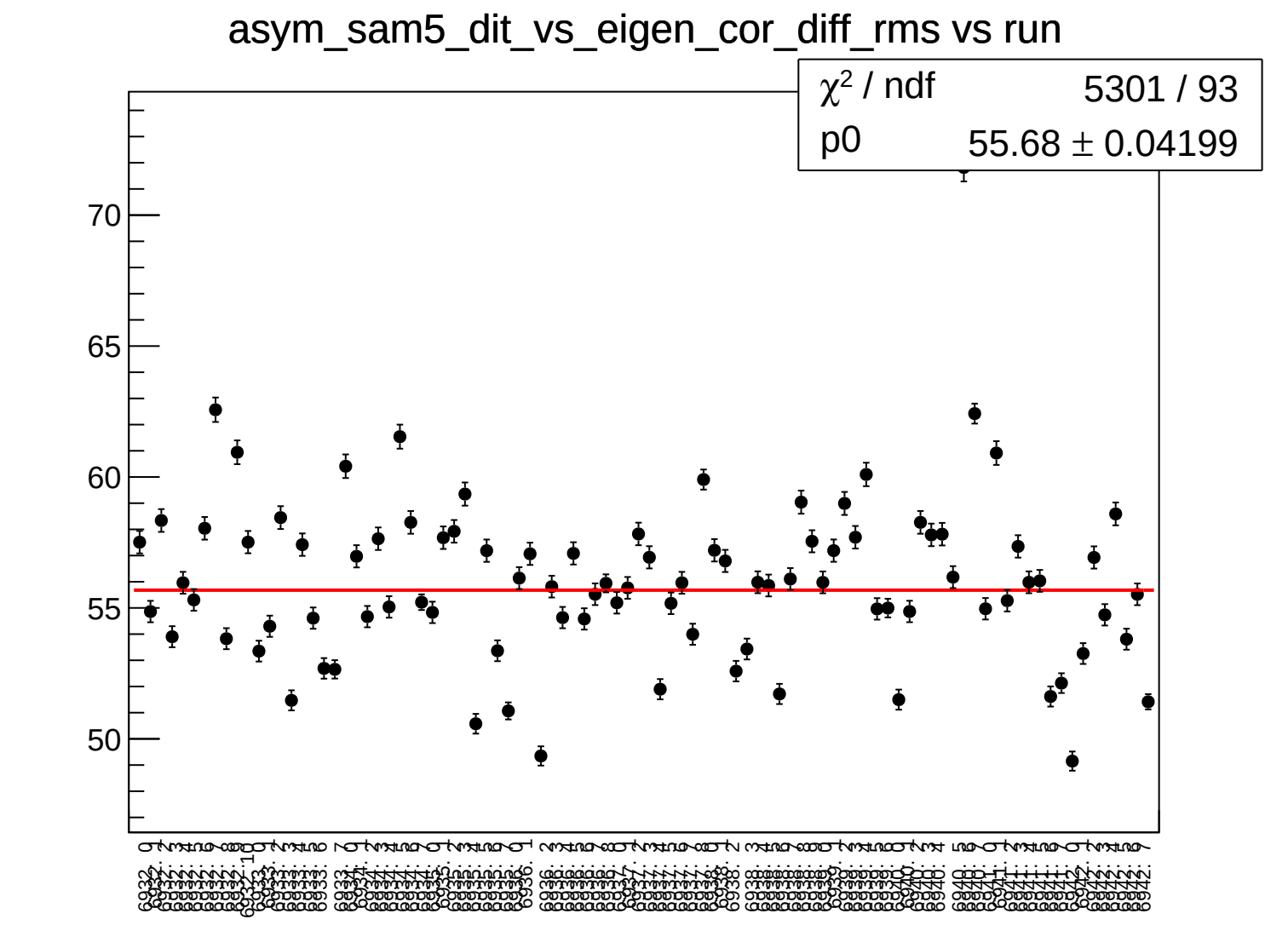

pull1D
Entries 94
Mean −0.06212
Std Dev 0.9557
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

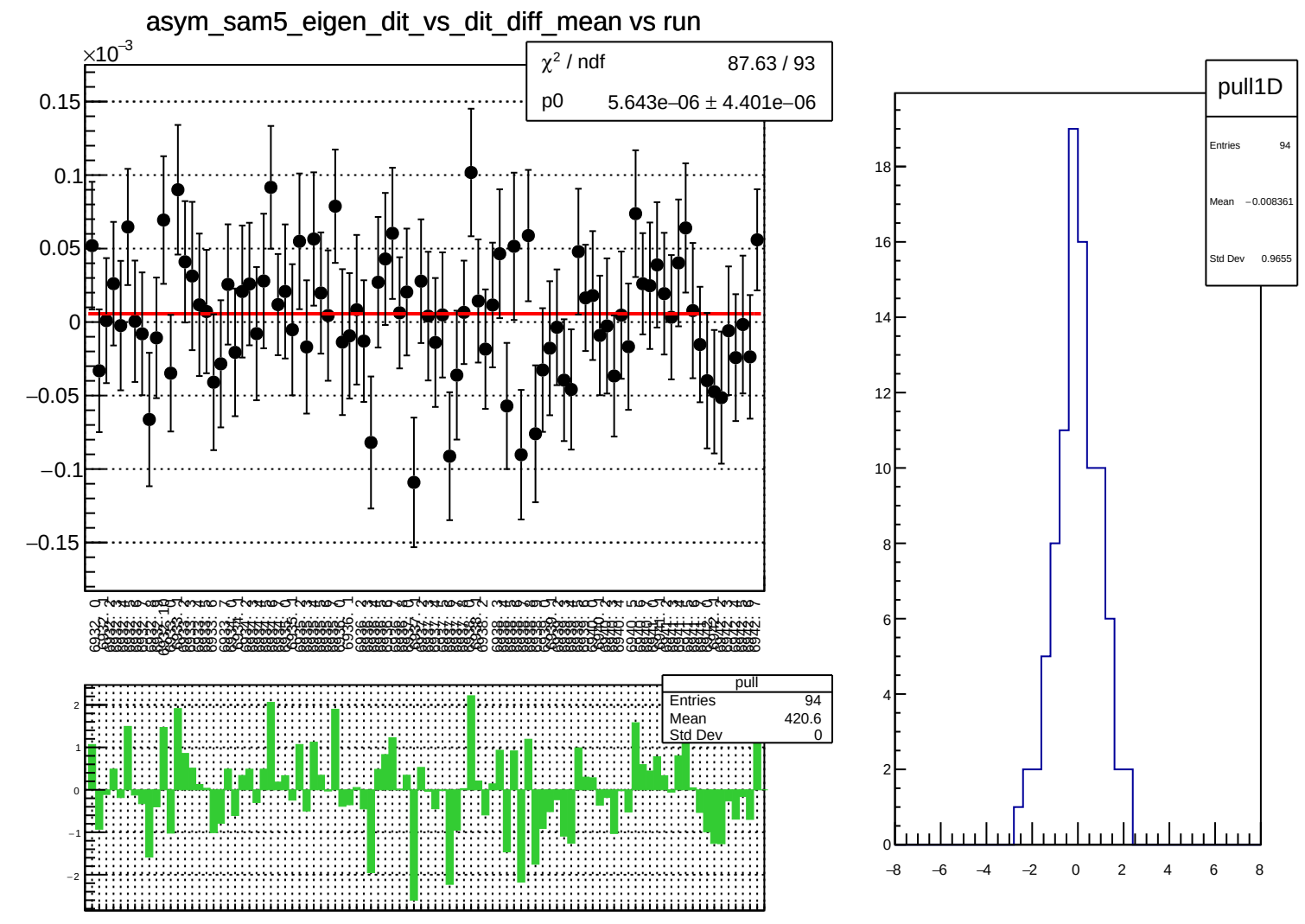

asym_sam5_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.965e+05 / 93
p0 1.592e−11 ± 1.817e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

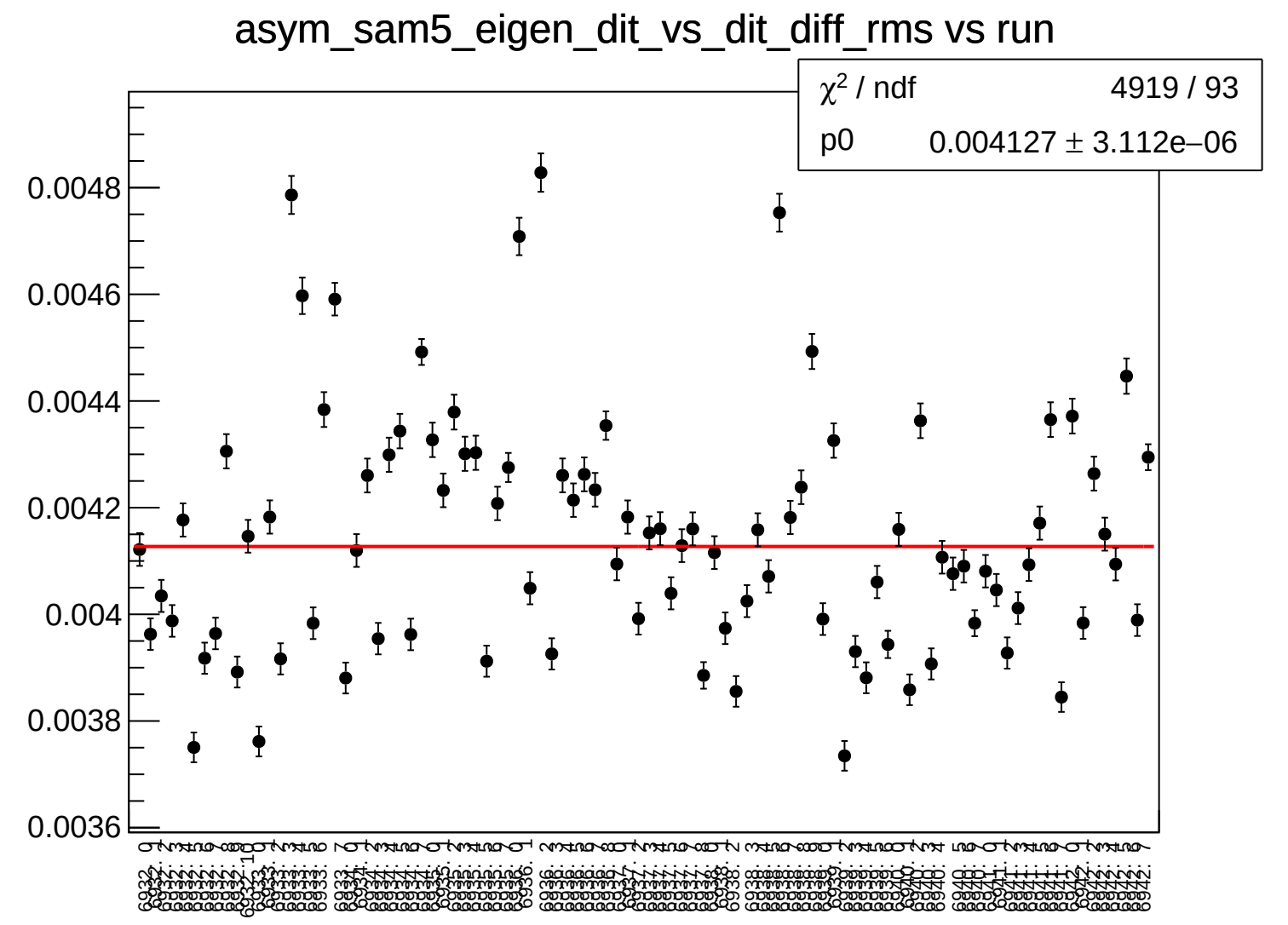

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 93
p0 0.01555 ± 0.05938
pull
Entries 94
Mean 1233
Std Dev 0
pull1D
Entries 94
Mean −0.0031
Std Dev 1.048

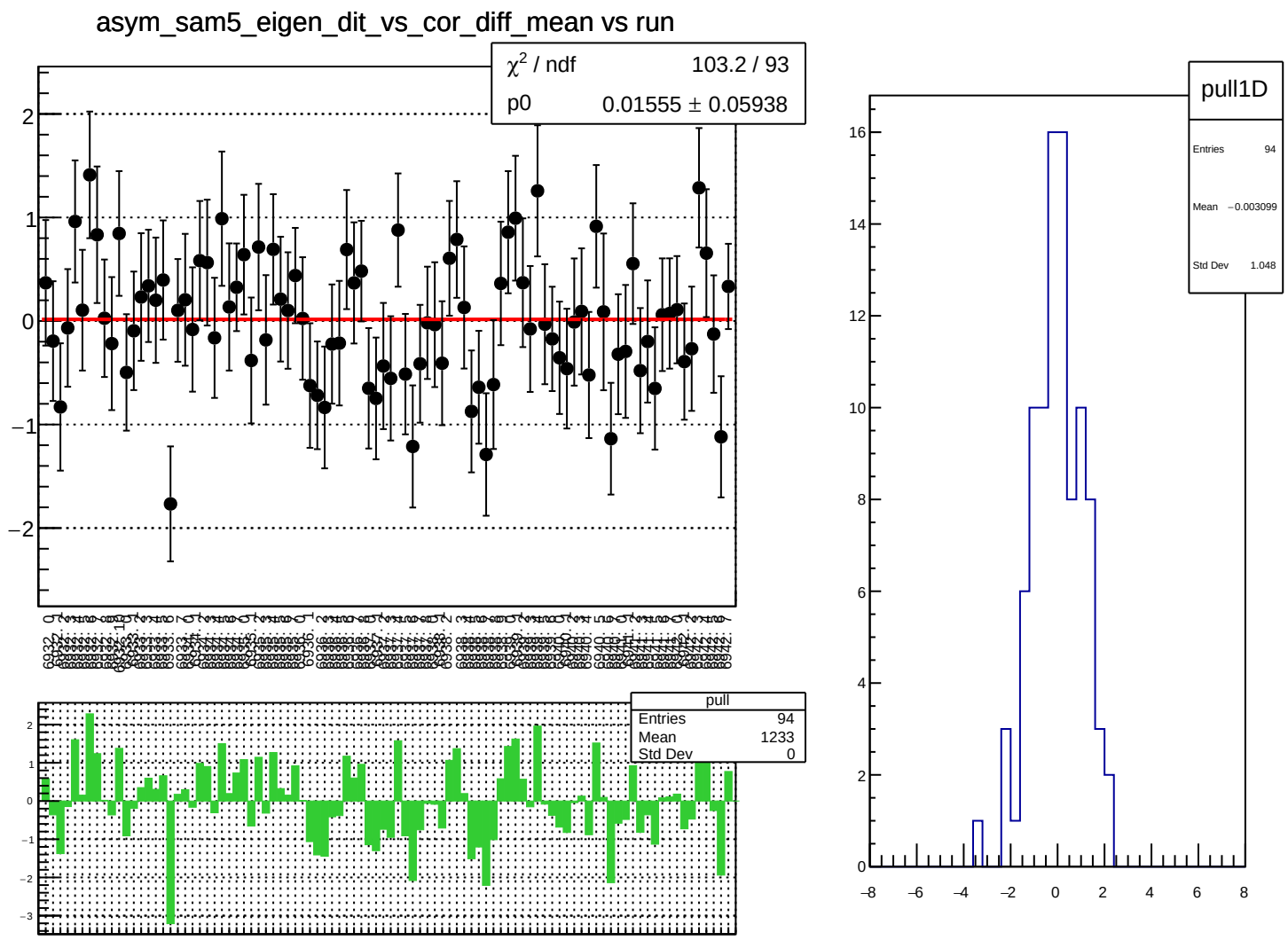

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5301 / 93
p0 55.68 ± 0.04199
70
65
60
55
50

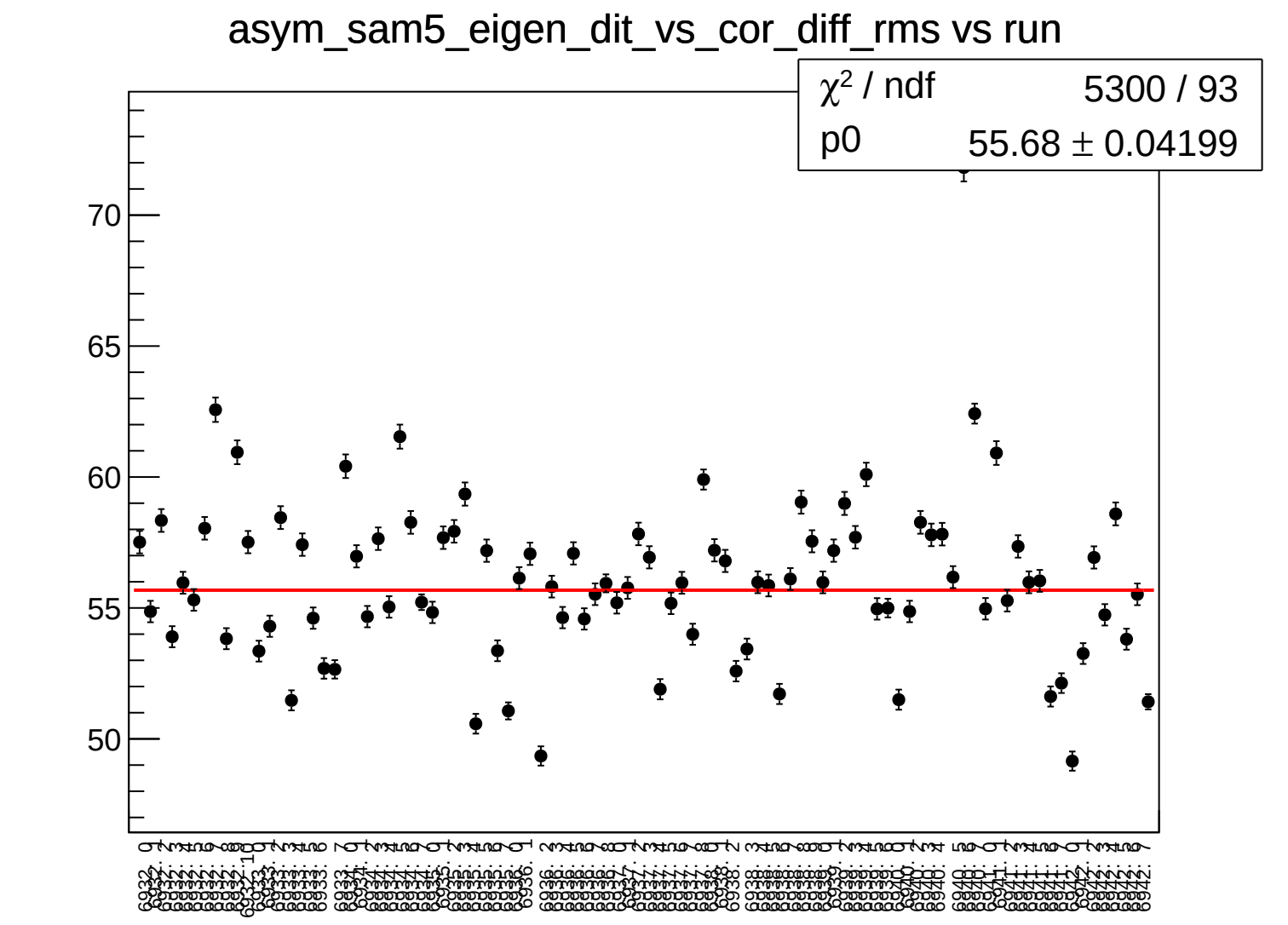

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 93
p0 0.01555 ± 0.05938
pull
Entries 94
Mean 1233
Std Dev 0
pull1D
Entries 94
Mean −0.0031
Std Dev 1.048

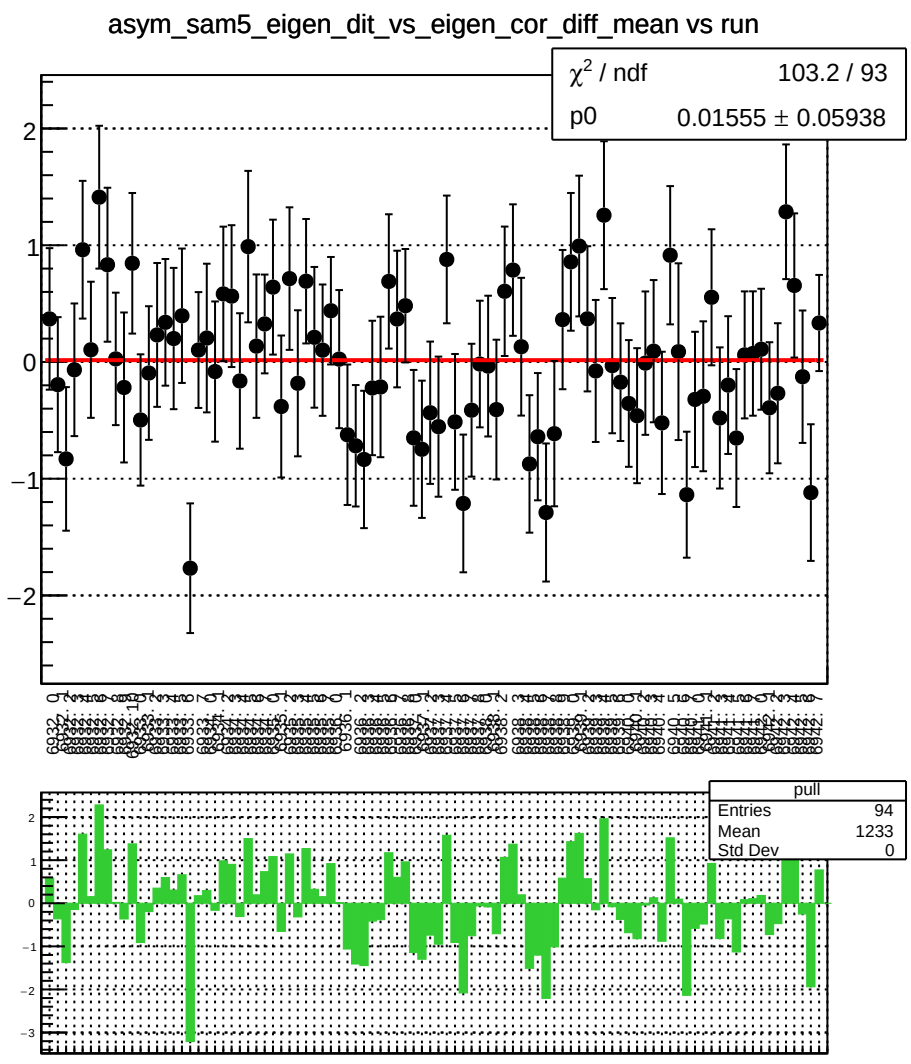

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5301 / 93
p0 55.68 ± 0.04199
70
65
60
55
50

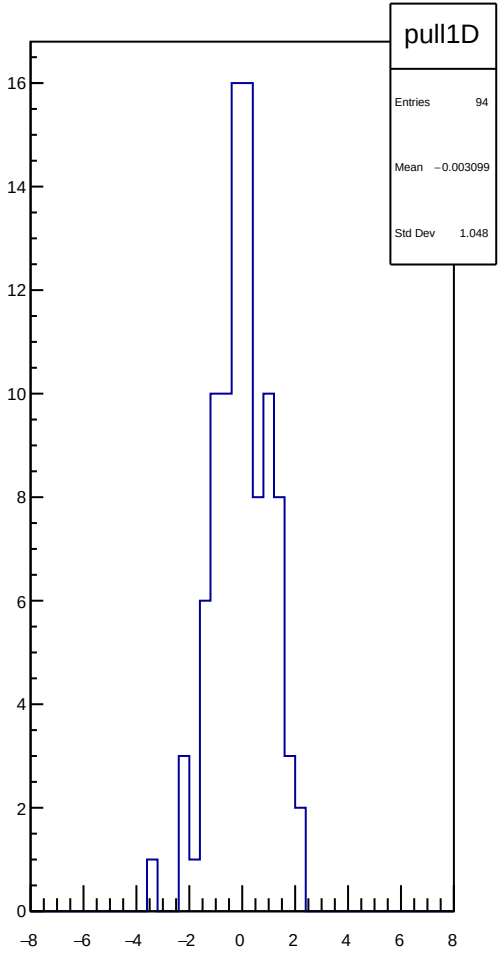

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.63 / 93
p0 5.643e−06 ± 4.401e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 420.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.008361
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

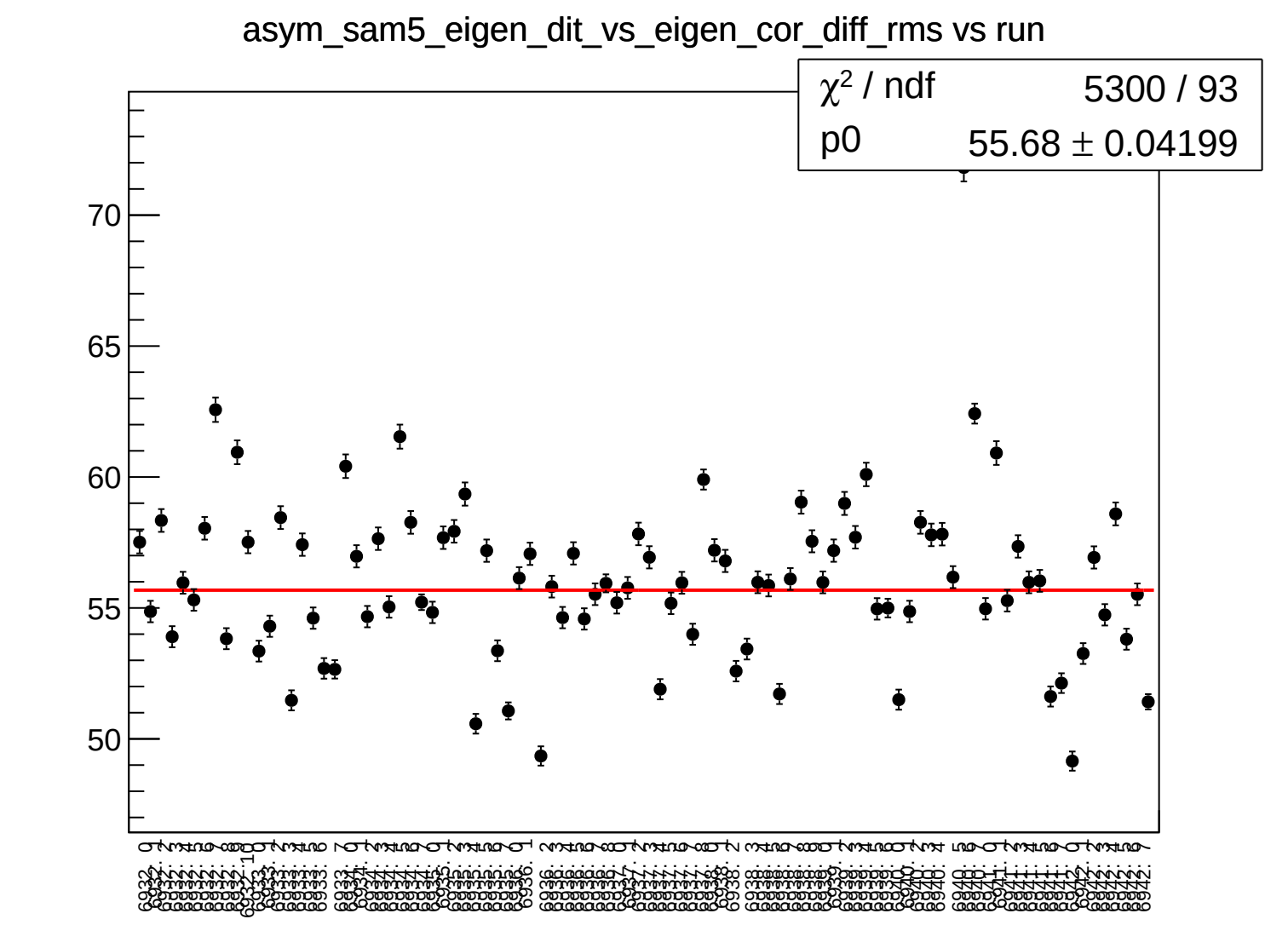

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4919 / 93
p0 0.004127 ± 3.112e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

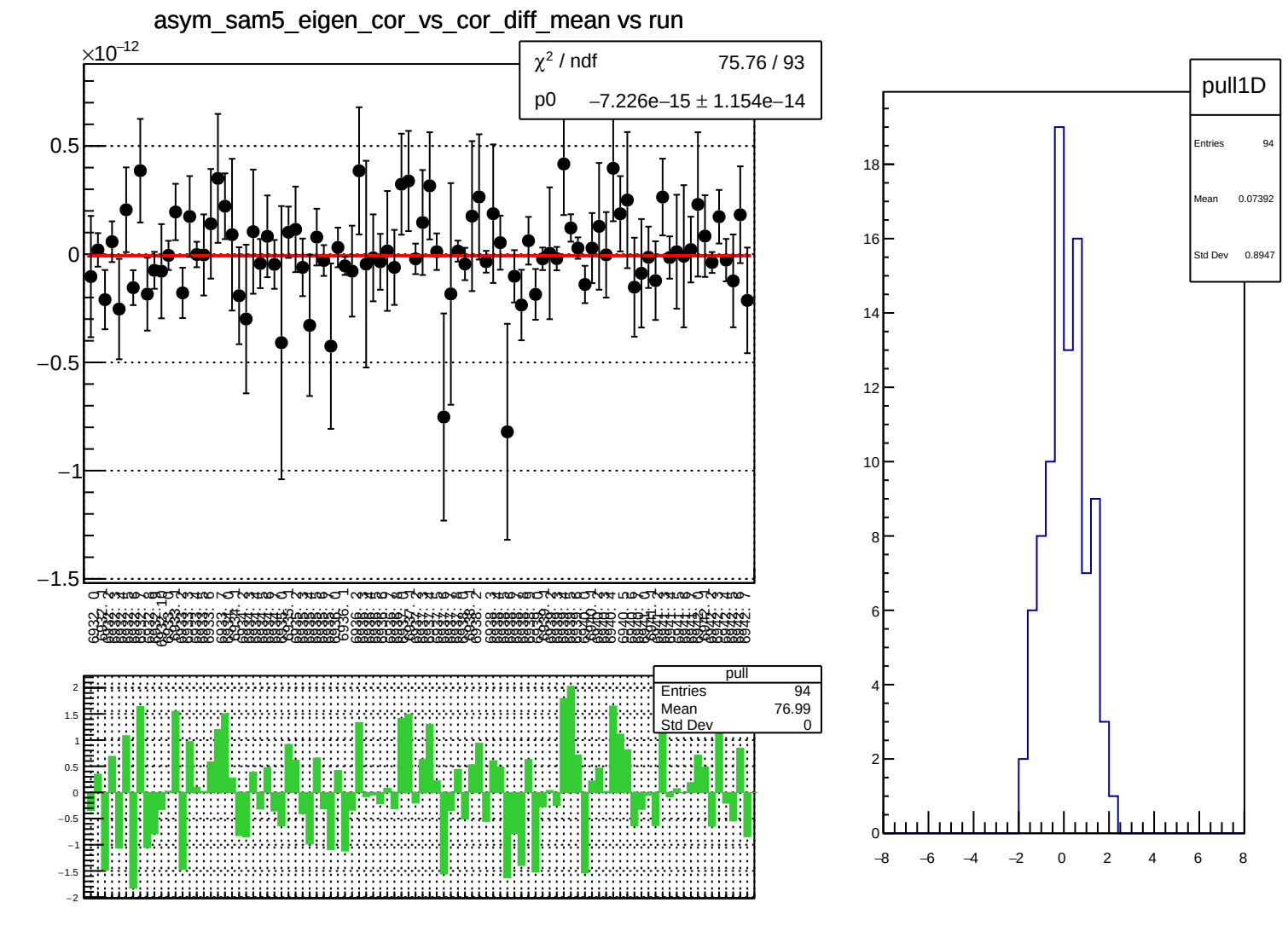

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 93
p0 0.01555 ± 0.05938
pull
Entries 94
Mean 1233
Std Dev 0
pull1D
Entries 94
Mean −0.003099
Std Dev 1.048

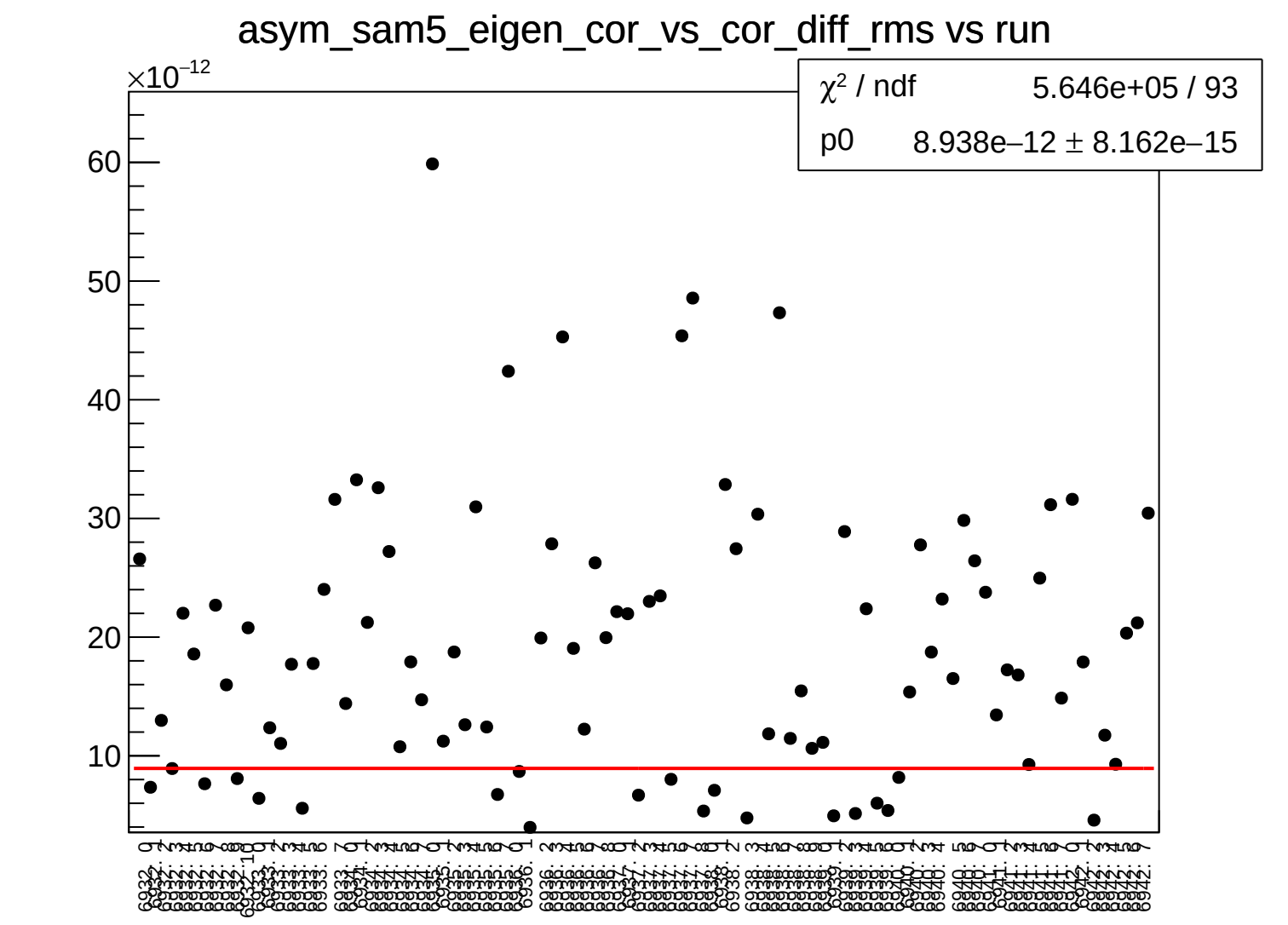

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5300 / 93
p0 55.68 ± 0.04199
70
65
60
55
50

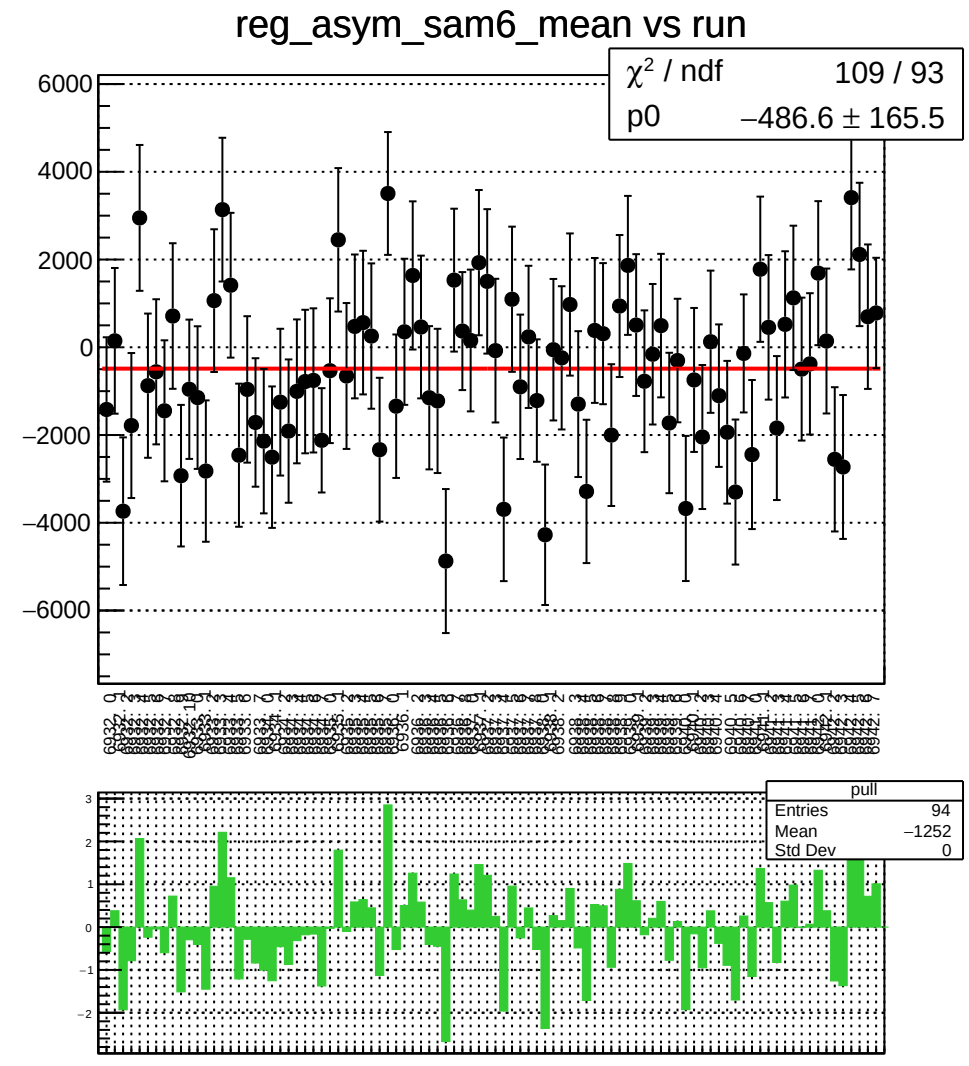

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 93
p0 0.01555 ± 0.05938
pull
Entries 94
Mean 1233
Std Dev 0

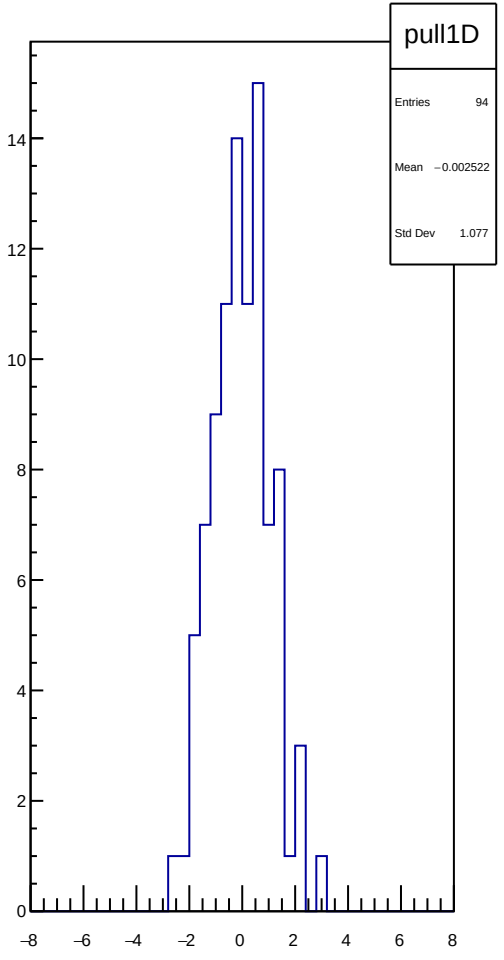

pull1D
Entries 94
Mean −0.003099
Std Dev 1.048

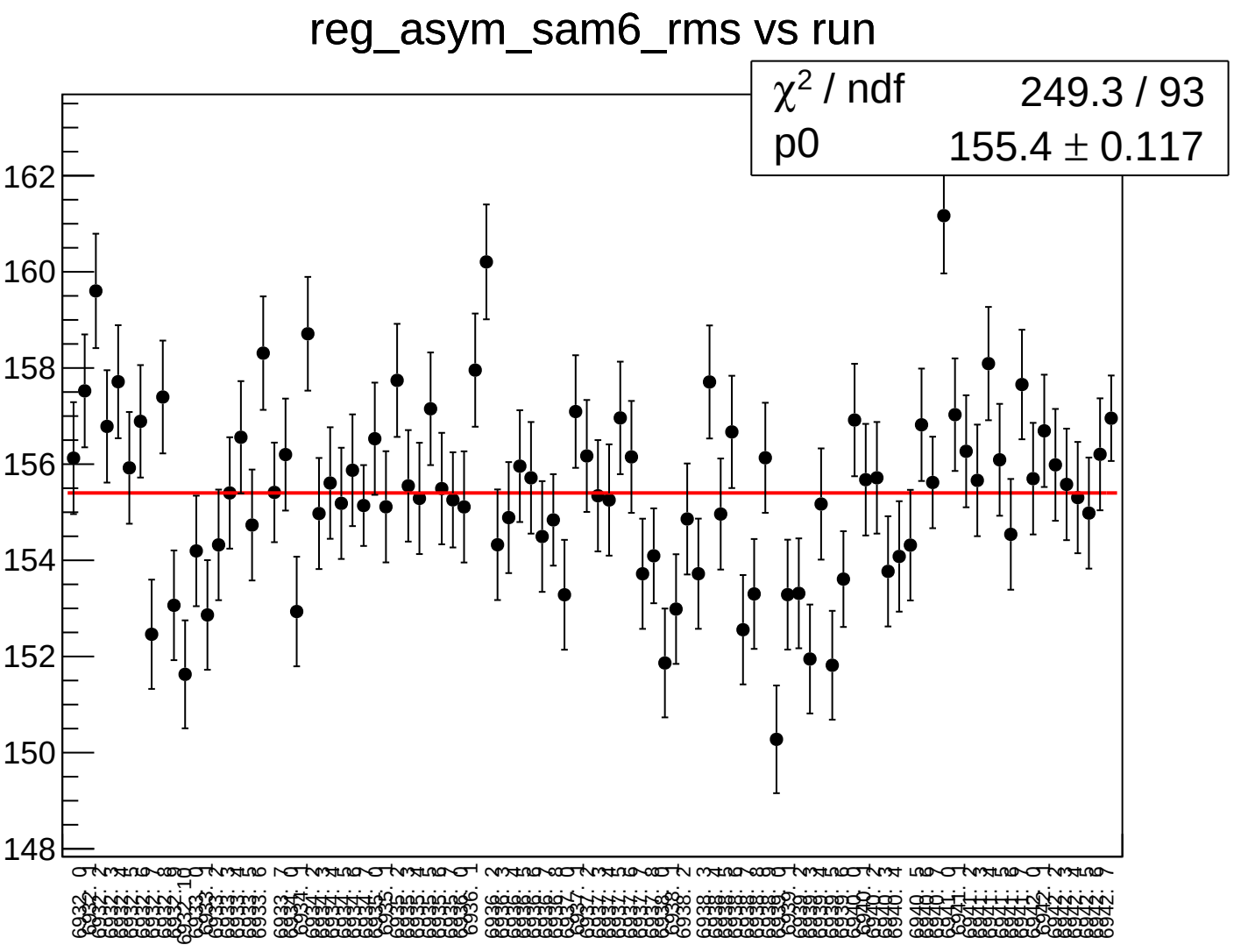

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5300 / 93
p0 55.68 ± 0.04199
70
65
60
55
50

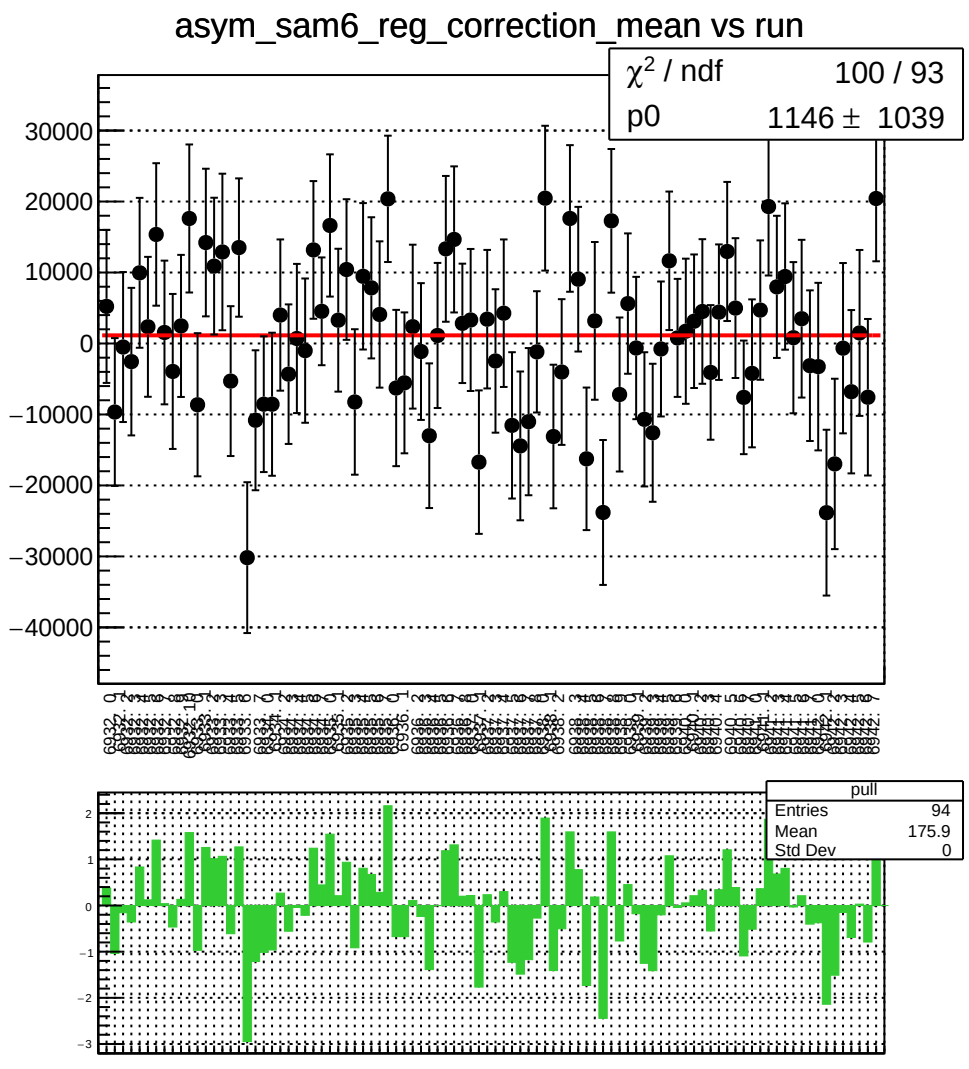

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.76 / 93
p0 −7.226e−15 ± 1.154e−14
0.5
0
−0.5
−1
−1.5
pull
Entries 94
Mean 76.99
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.07392
Std Dev 0.8947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

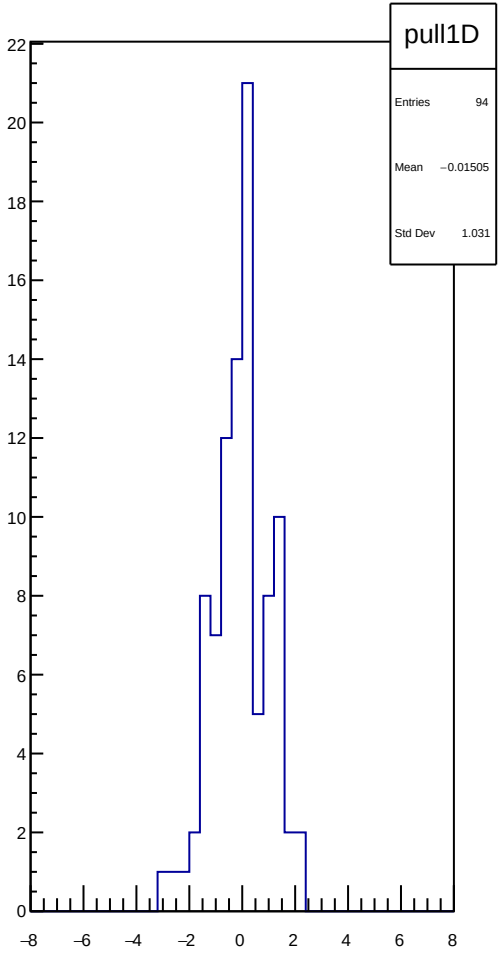

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.646e+05 / 93
p0 8.938e−12 ± 8.162e−15
60
50
40
30
20
10

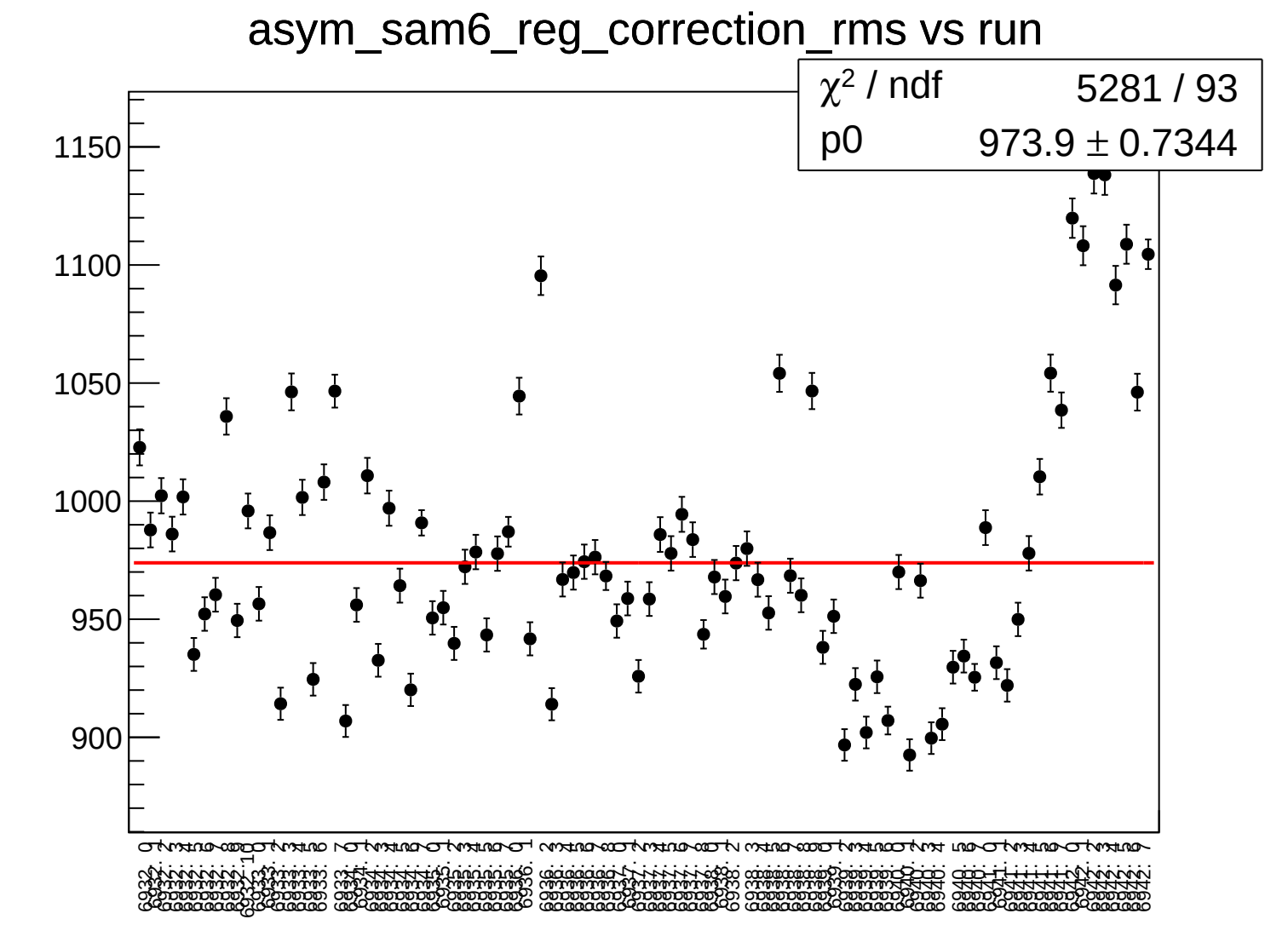

reg_asym_sam6_mean vs run
χ² / ndf 109 / 93
p0 −486.6 ± 165.5
pull
Entries 94
Mean −1252
Std Dev 0

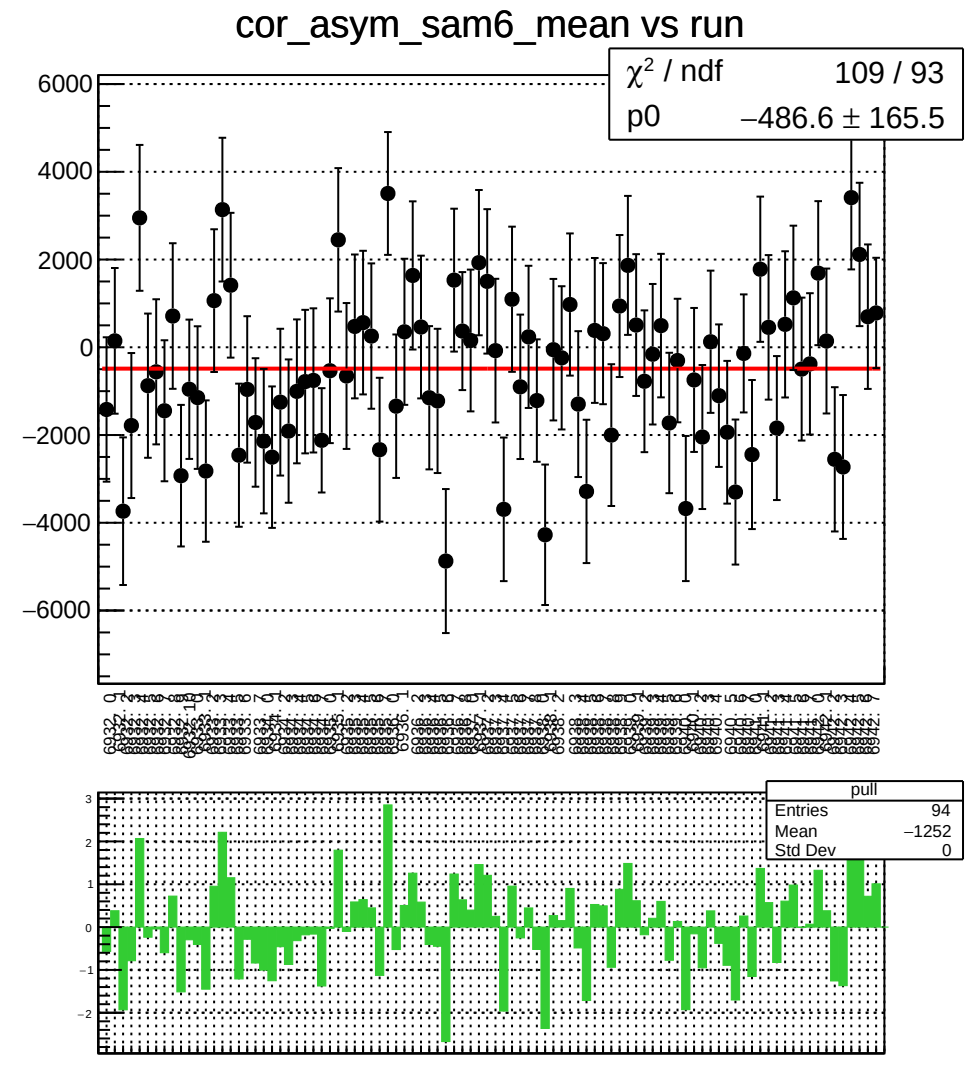

pull1D
Entries 94
Mean −0.002522
Std Dev 1.077

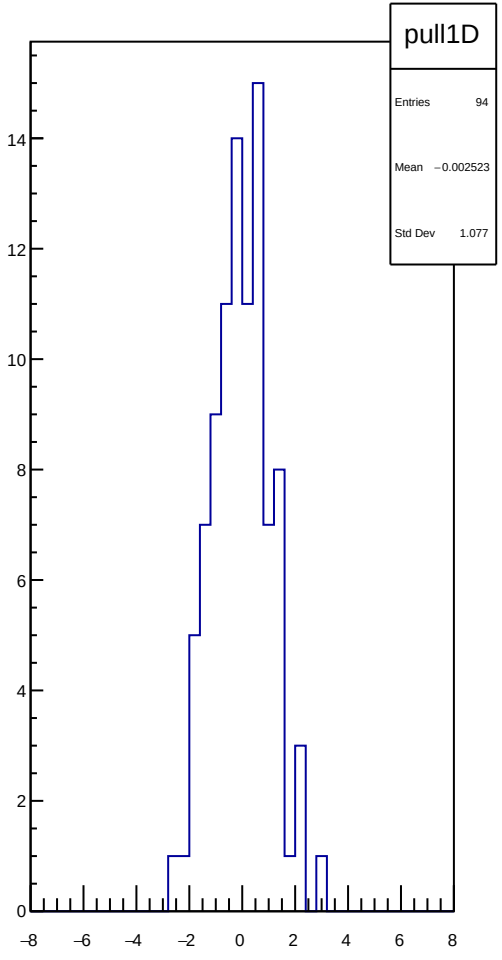

reg_asym_sam6_rms vs run
χ^2 / ndf 249.3 / 93
p0 155.4 ± 0.117
162
160
158
156
154
152
150
148

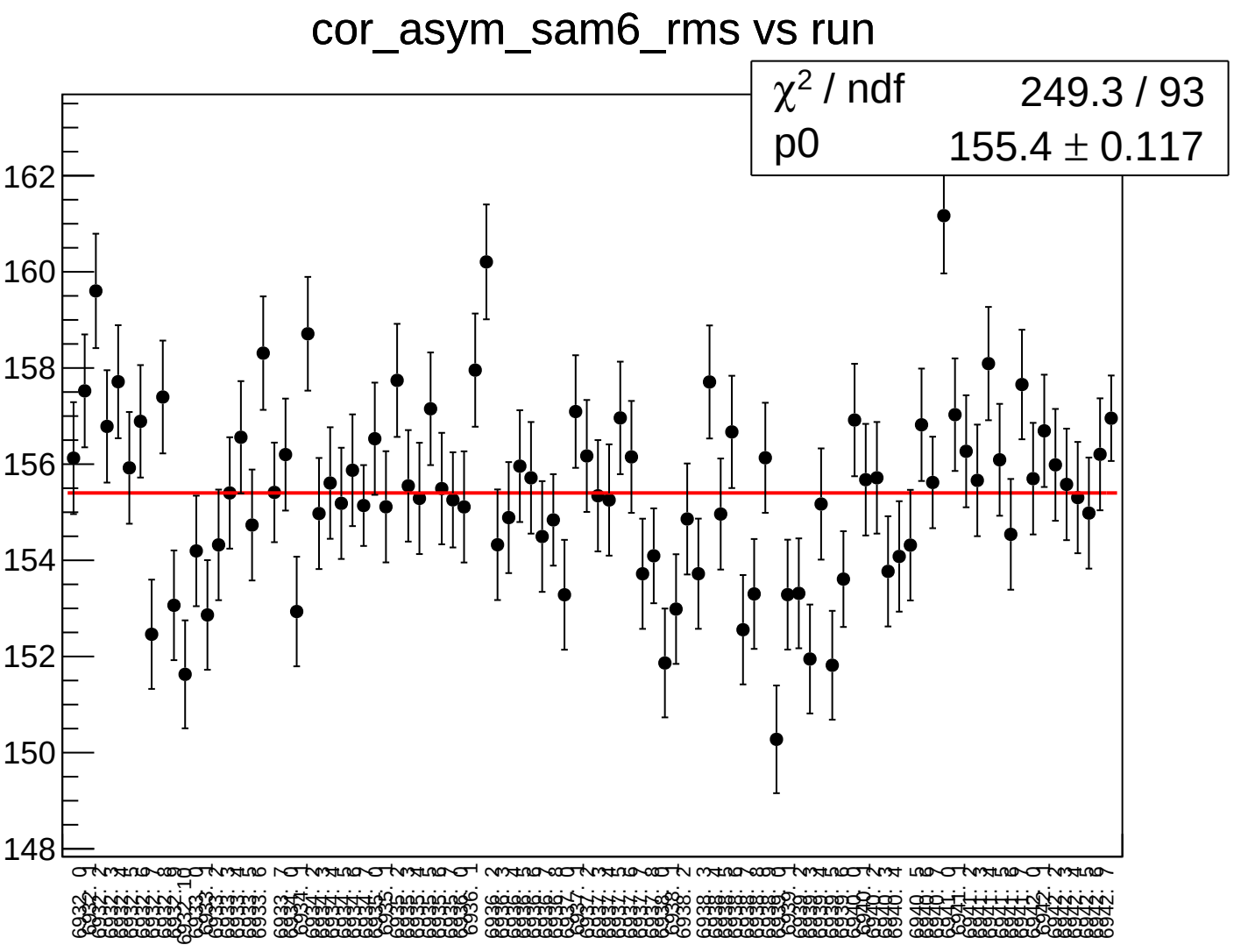

asym_sam6_reg_correction_mean vs run
χ² / ndf 100 / 93
p0 1146 ± 1039
pull
Entries 94
Mean 175.9
Std Dev 0

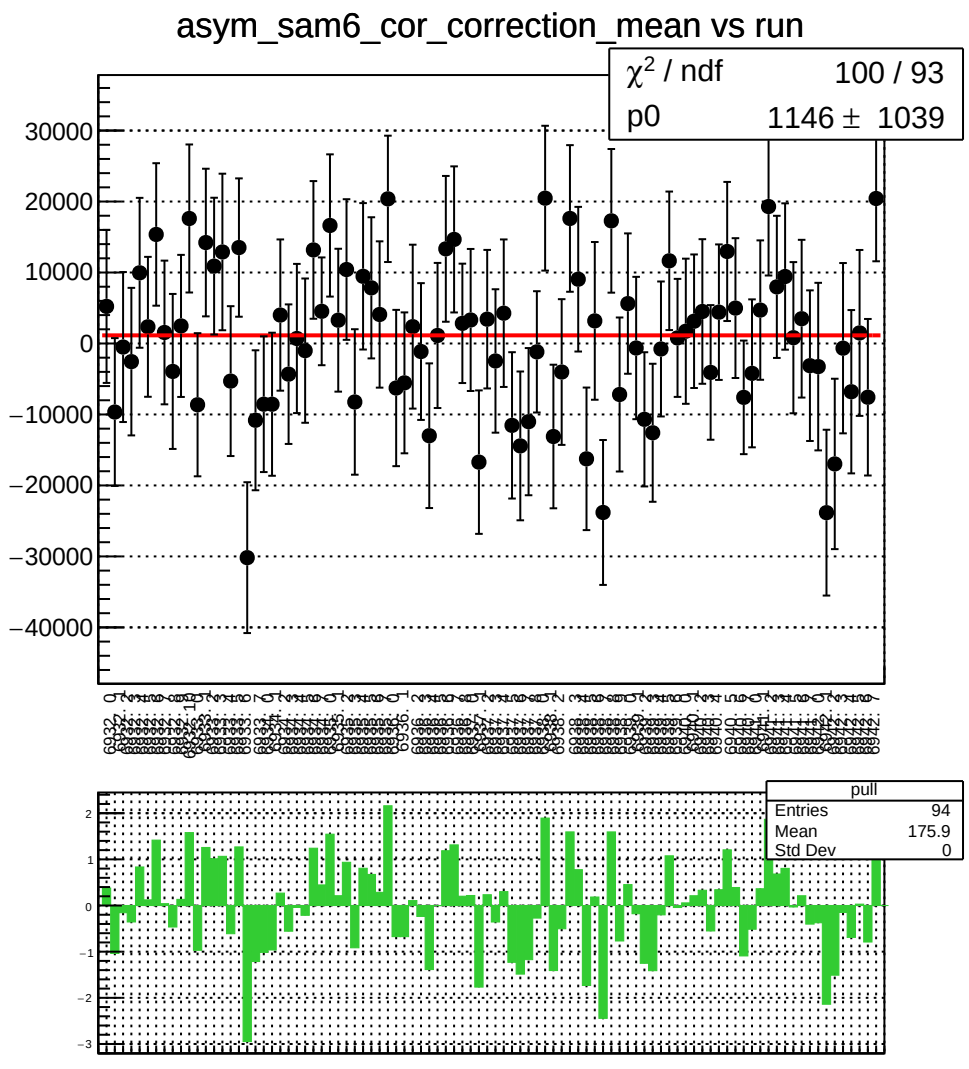

pull1D
Entries 94
Mean −0.01505
Std Dev 1.031

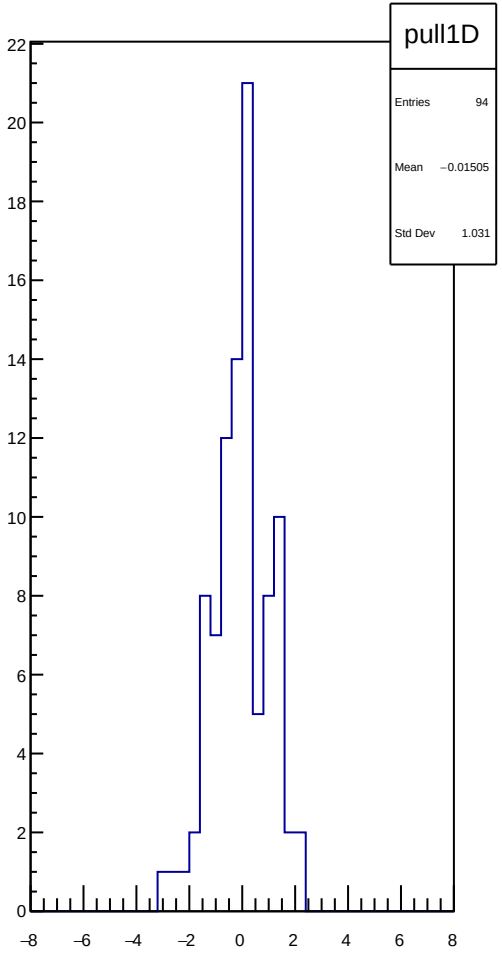

asym_sam6_reg_correction_rms vs run
χ² / ndf 5281 / 93
p0 973.9 ± 0.7344
1150
1100
1050
1000
950
900


cor_asym_sam6_mean vs run
χ² / ndf 109 / 93
p0 −486.6 ± 165.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1252
Std Dev 0
3
2
1
0
−1
−2

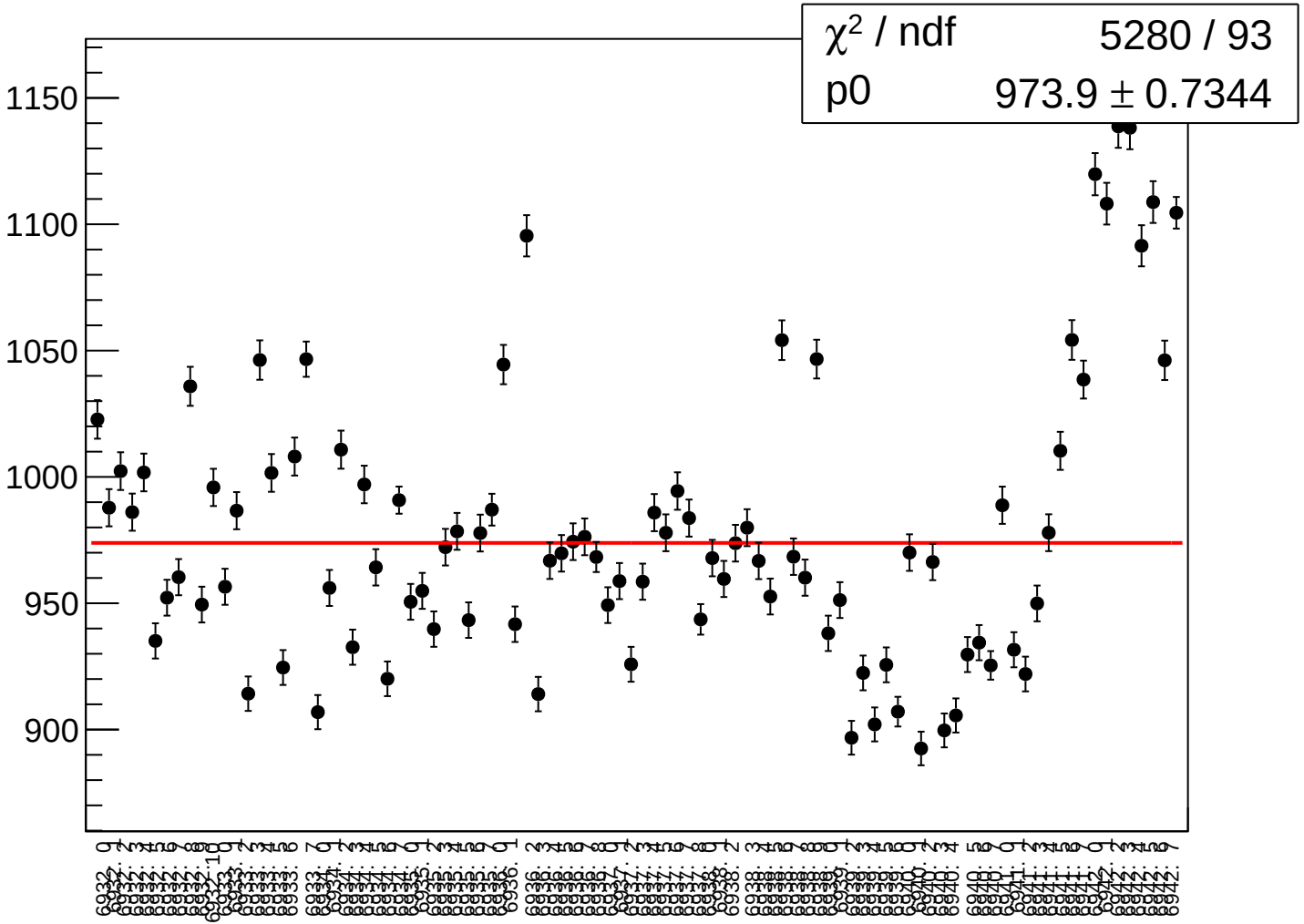

pull1D
Entries 94
Mean −0.002523
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

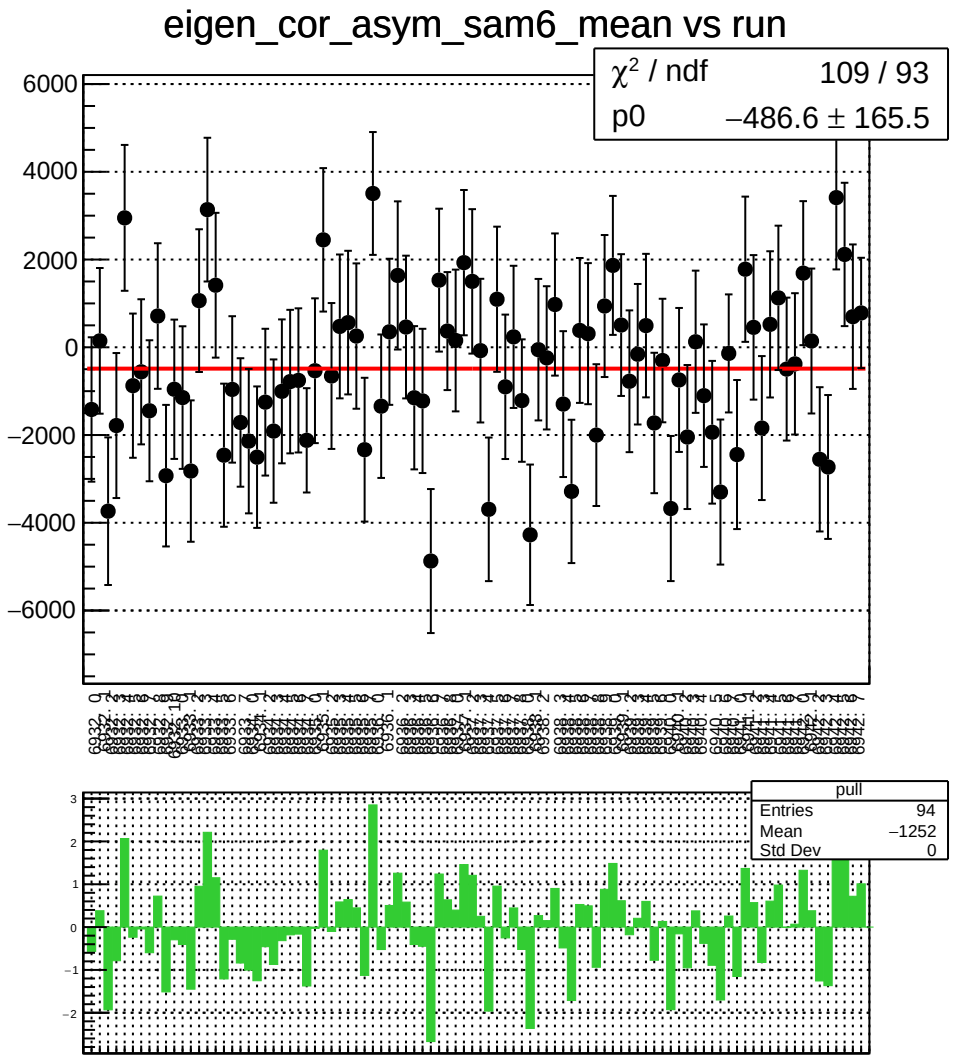

cor_asym_sam6_rms vs run
χ^2 / ndf 249.3 / 93
p0 155.4 ± 0.117
162
160
158
156
154
152
150
148

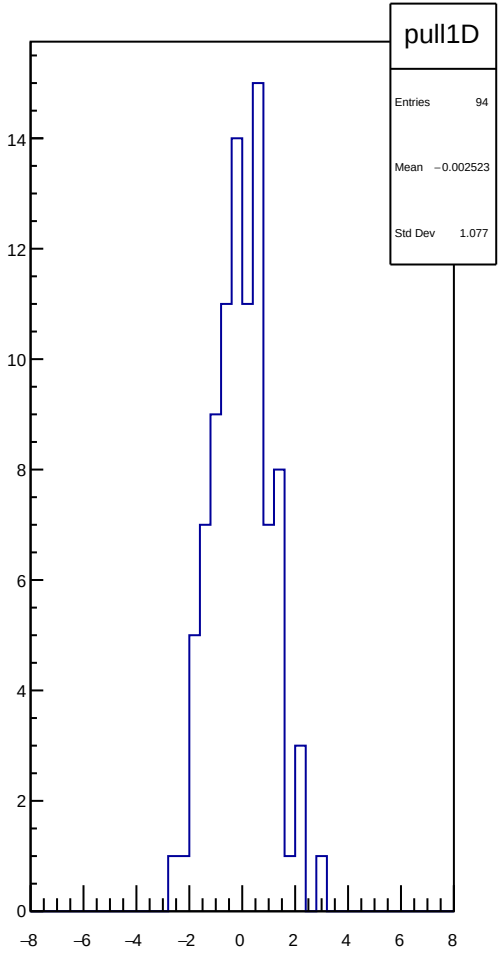

asym_sam6_cor_correction_mean vs run
χ² / ndf 100 / 93
p0 1146 ± 1039
pull
Entries 94
Mean 175.9
Std Dev 0

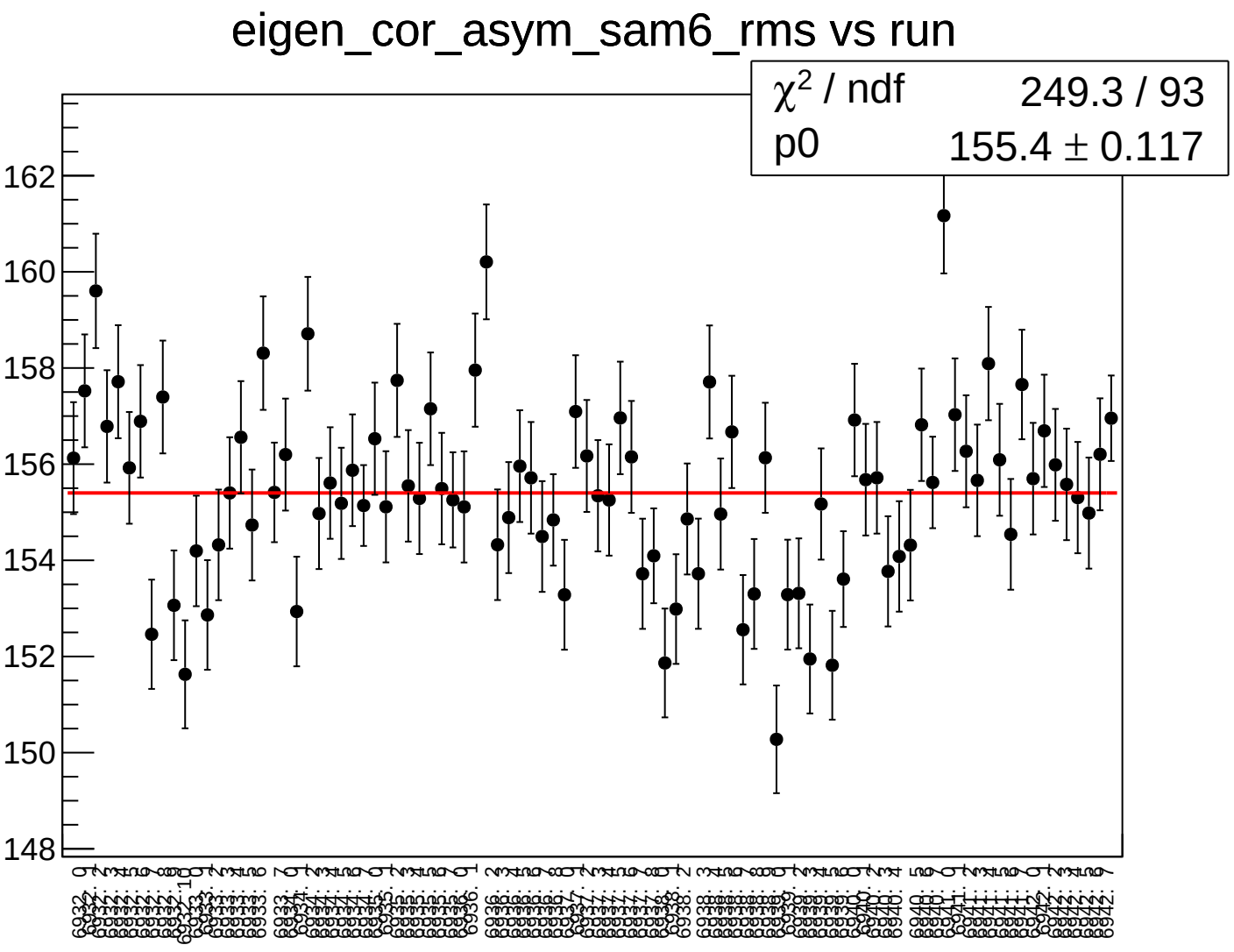

pull1D
Entries 94
Mean −0.01505
Std Dev 1.031

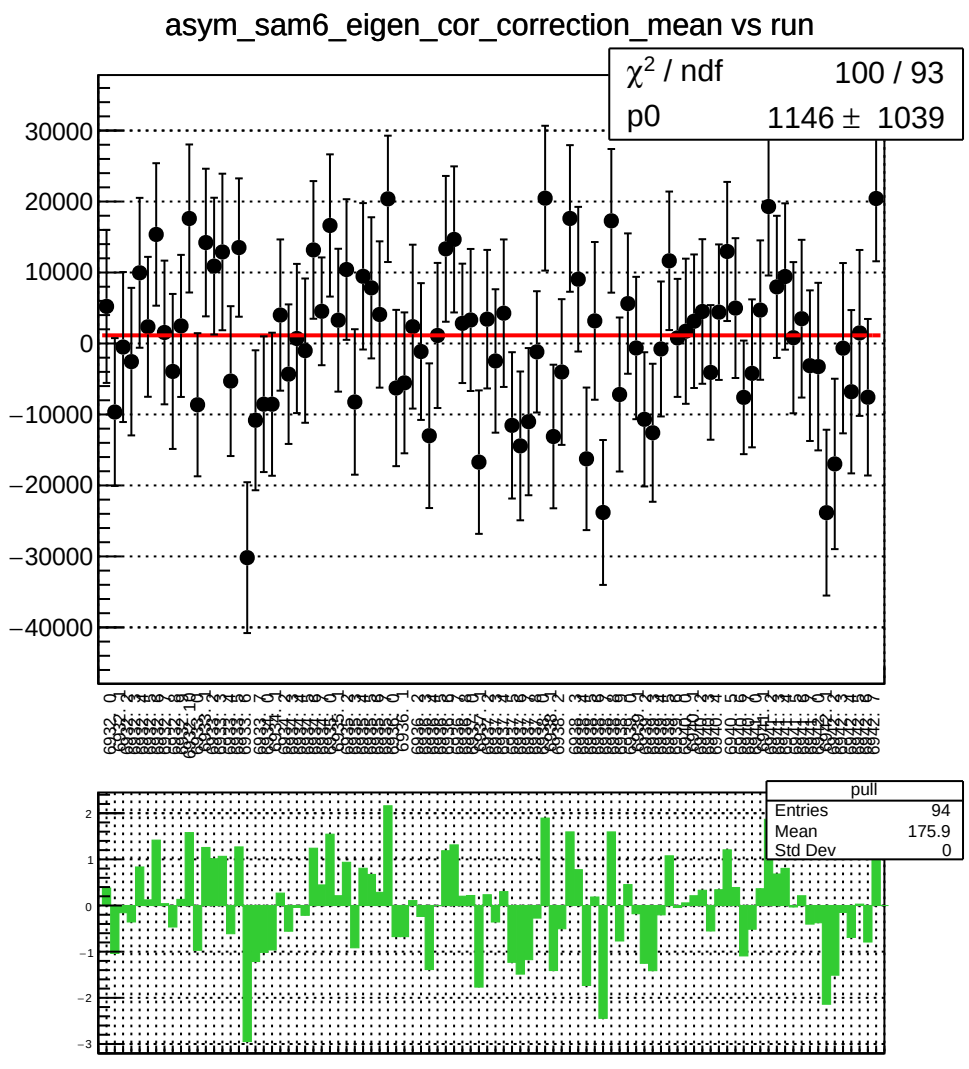
asym_sam6_cor_correction_rms vs run

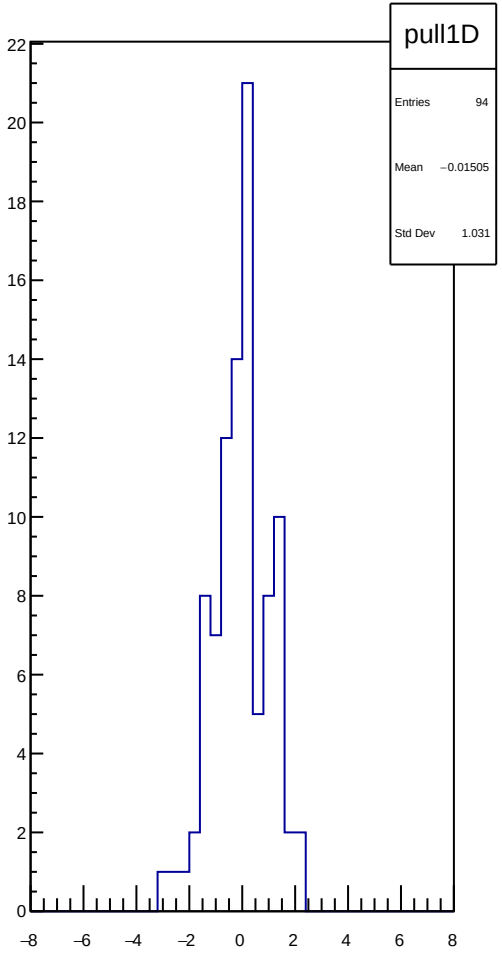


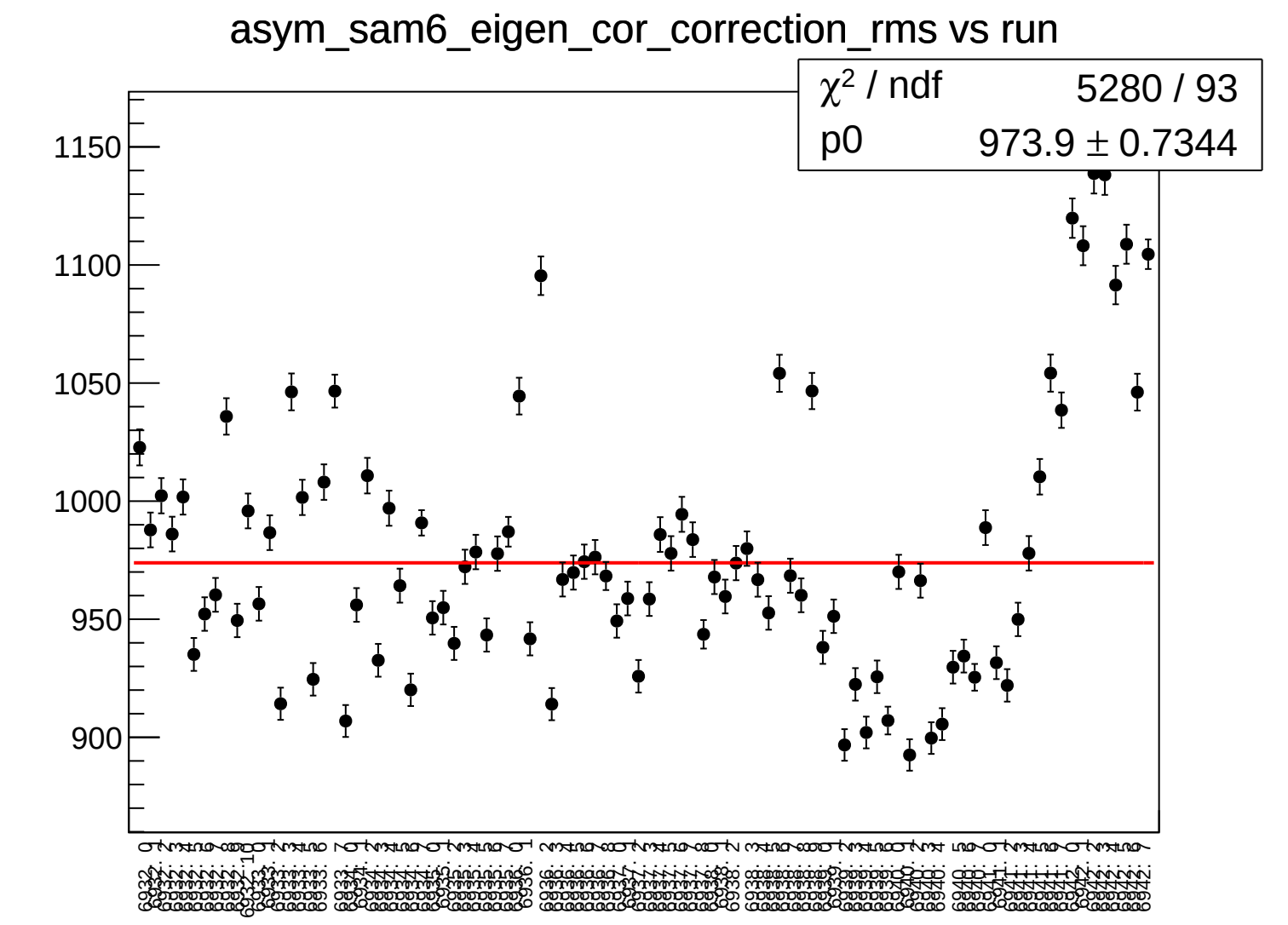

eigen_cor_asym_sam6_mean vs run
χ² / ndf 109 / 93
p0 −486.6 ± 165.5
pull
Entries 94
Mean −1252
Std Dev 0

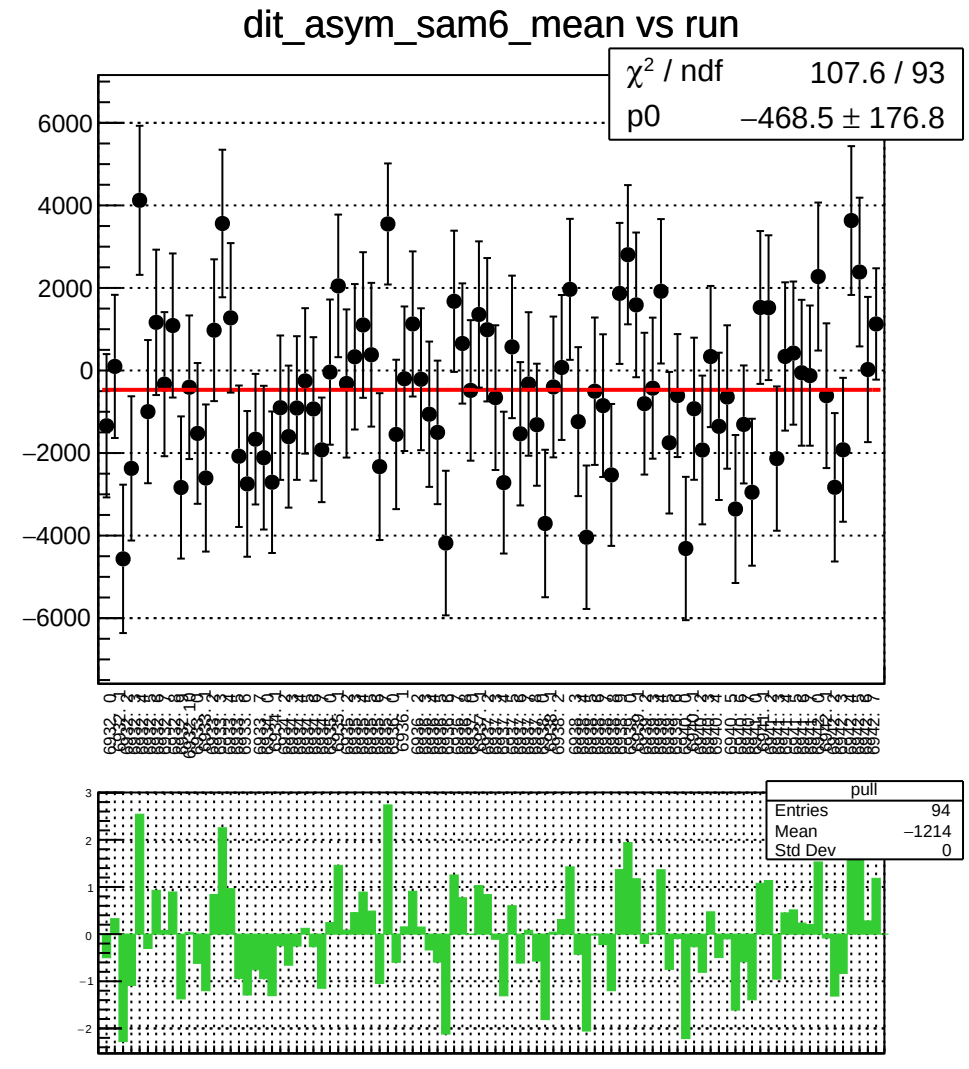

pull1D
Entries 94
Mean −0.002523
Std Dev 1.077

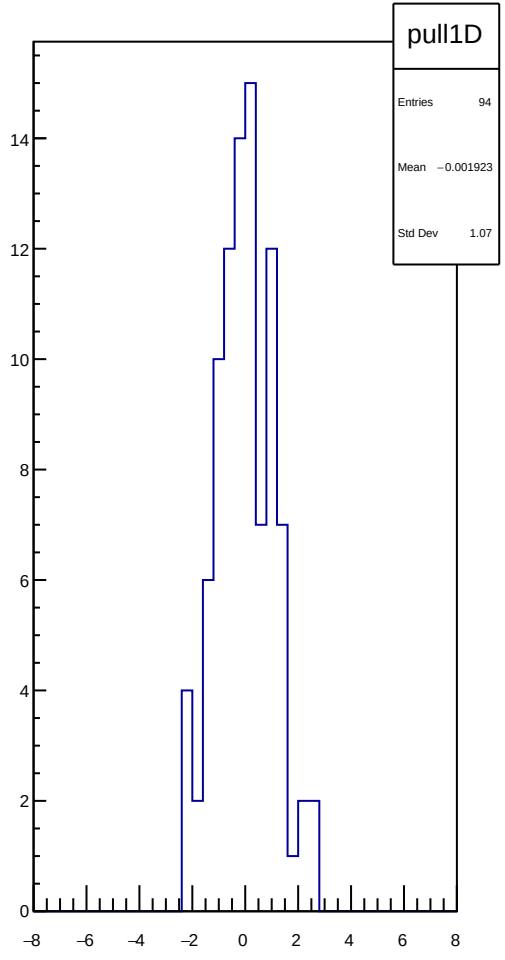

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 249.3 / 93
p0 155.4 ± 0.117
162
160
158
156
154
152
150
148

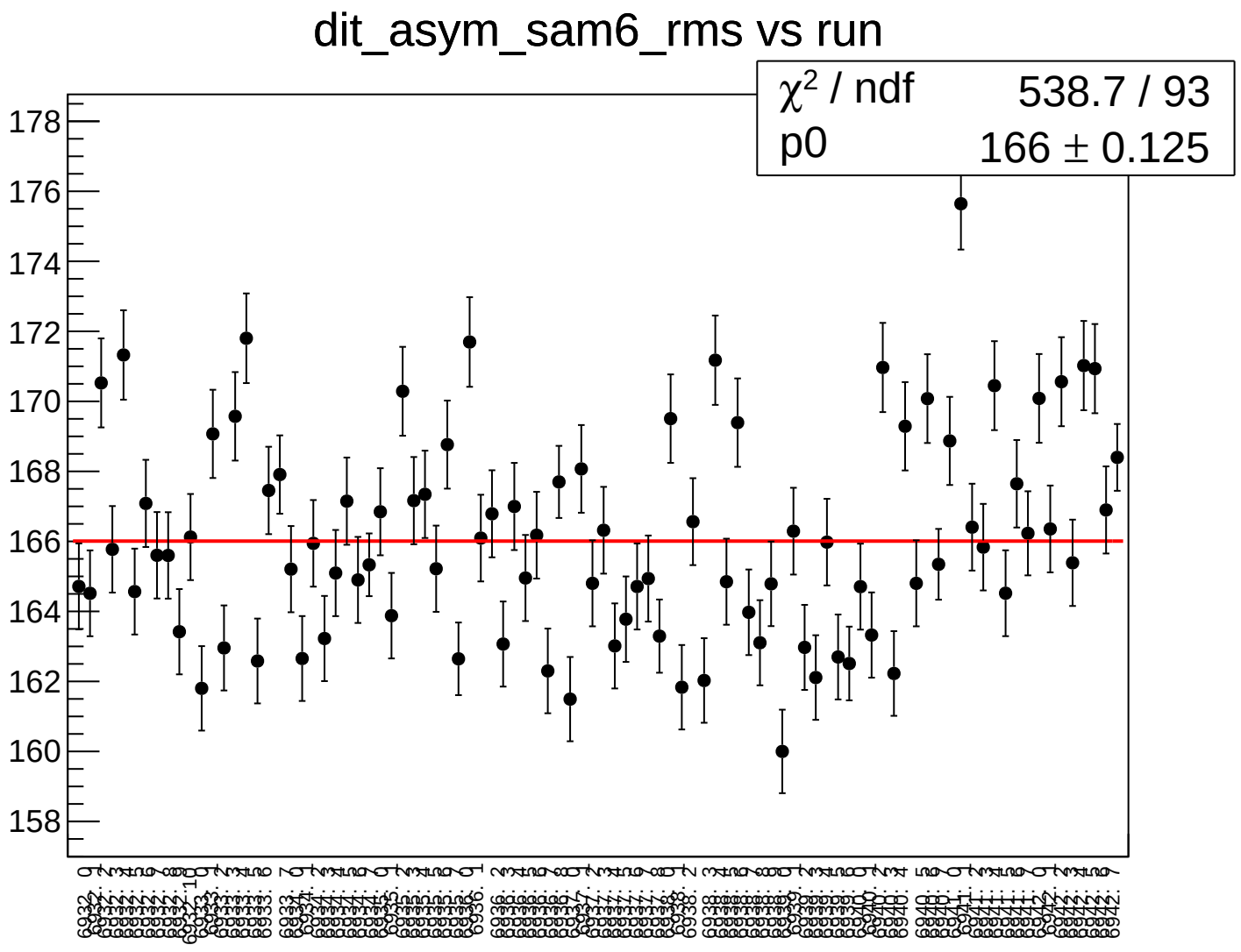

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 100 / 93
p0 1146 ± 1039
pull
Entries 94
Mean 175.9
Std Dev 0

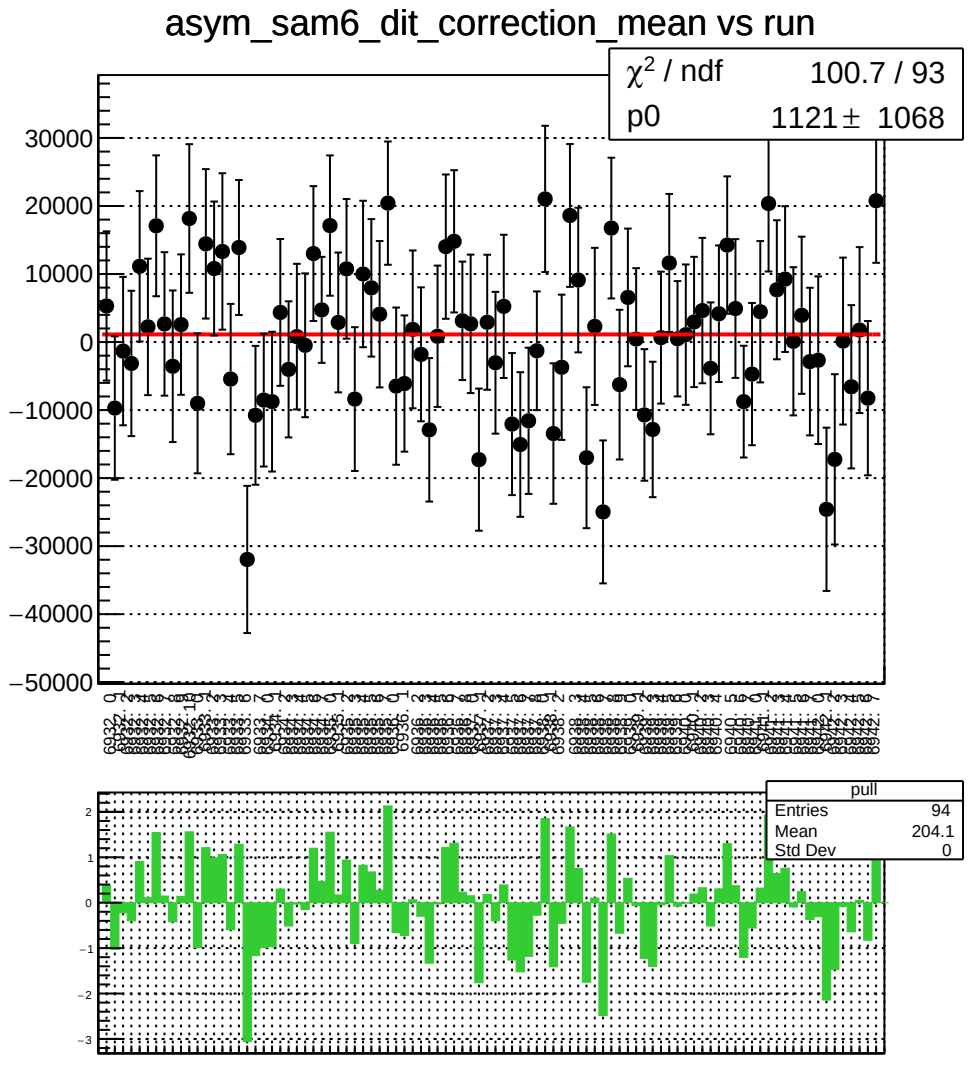

pull1D
Entries 94
Mean −0.01505
Std Dev 1.031

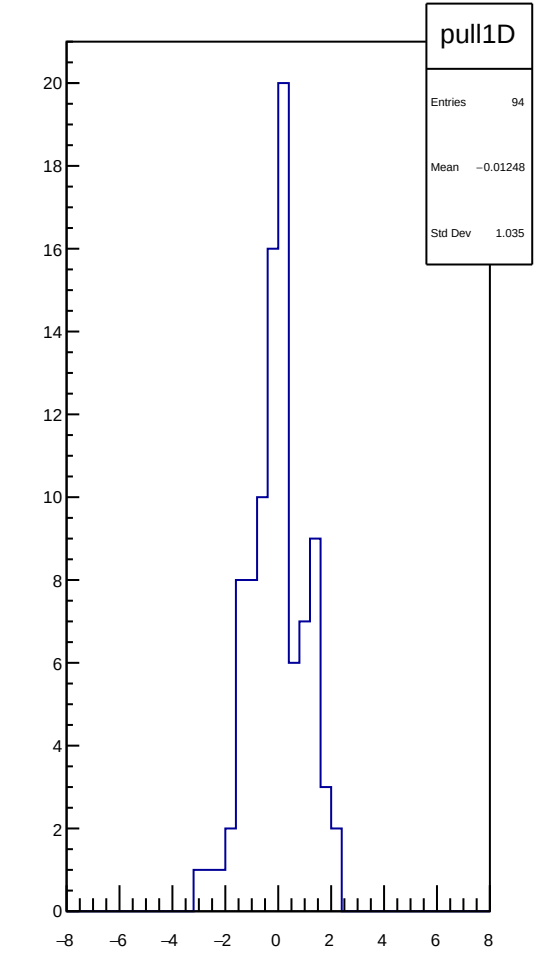

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 5280 / 93
p0 973.9 ± 0.7344
1150
1100
1050
1000
950
900

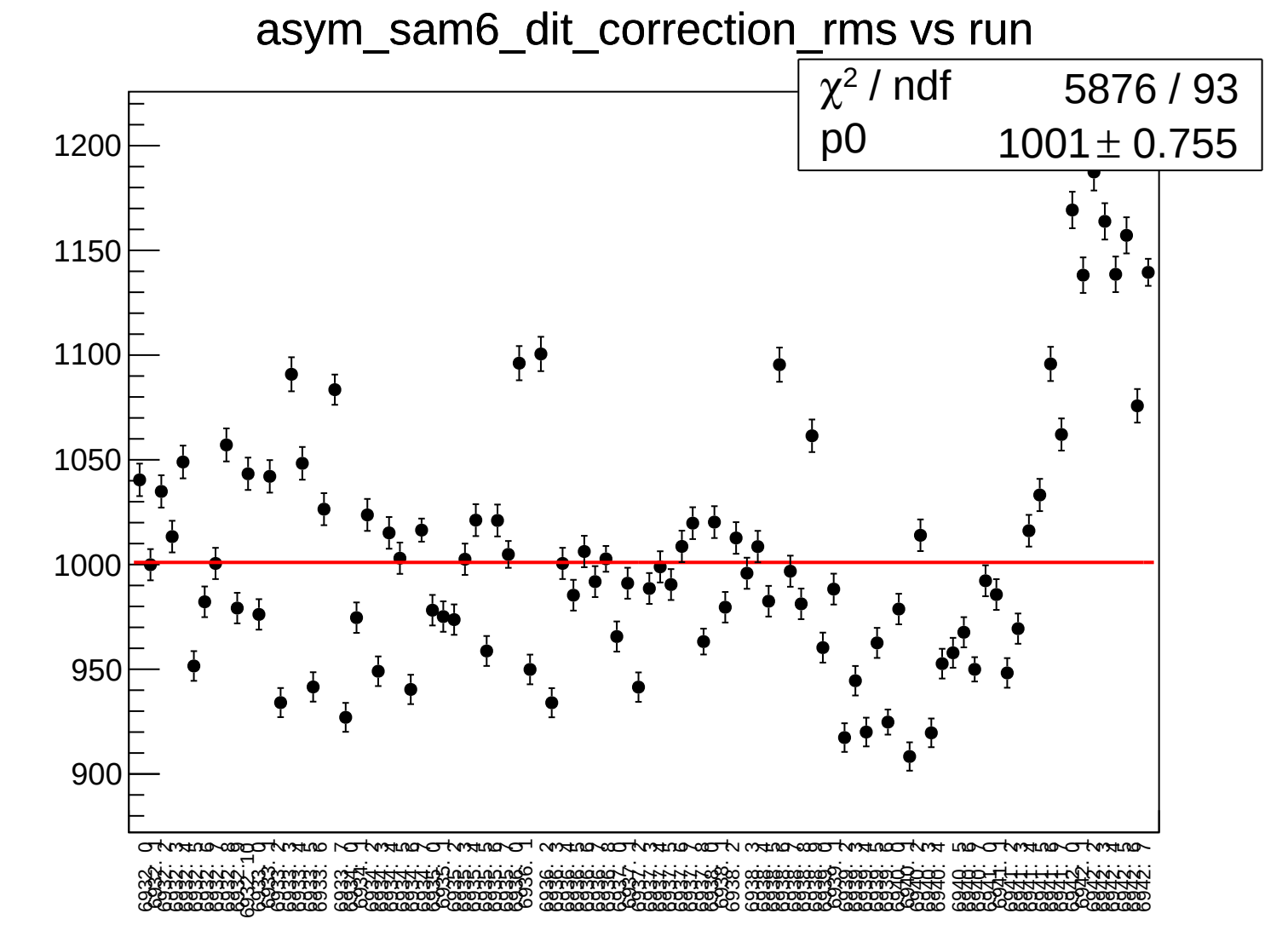

dit_asym_sam6_mean vs run
χ² / ndf 107.6 / 93
p0 −468.5 ± 176.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1214
Std Dev 0
3
2
1
0
−1
−2

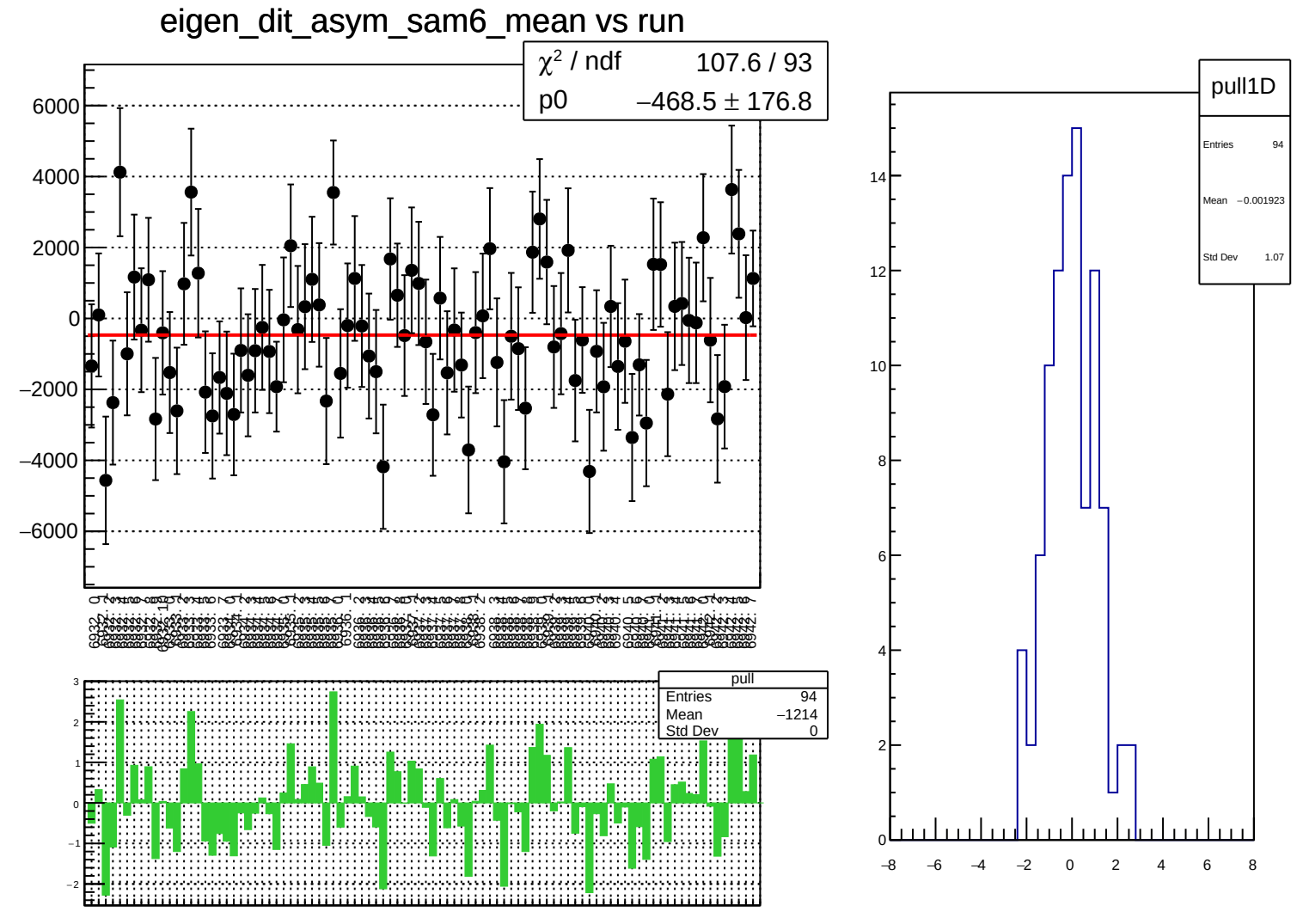

pull1D
Entries 94
Mean −0.001923
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

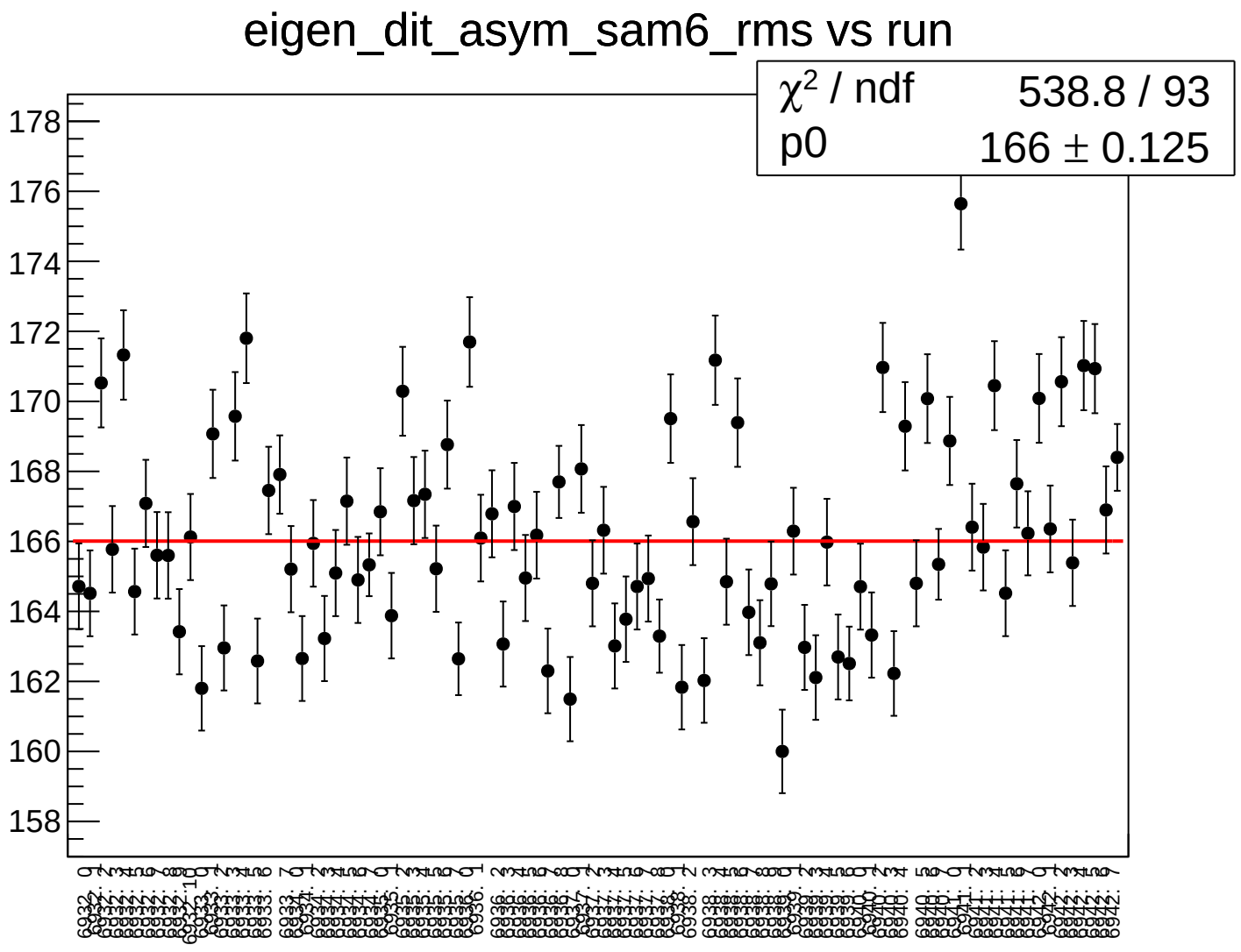

dit_asym_sam6_rms vs run
χ^2 / ndf 538.7 / 93
p0 166 ± 0.125
178
176
174
172
170
168
166
164
162
160
158

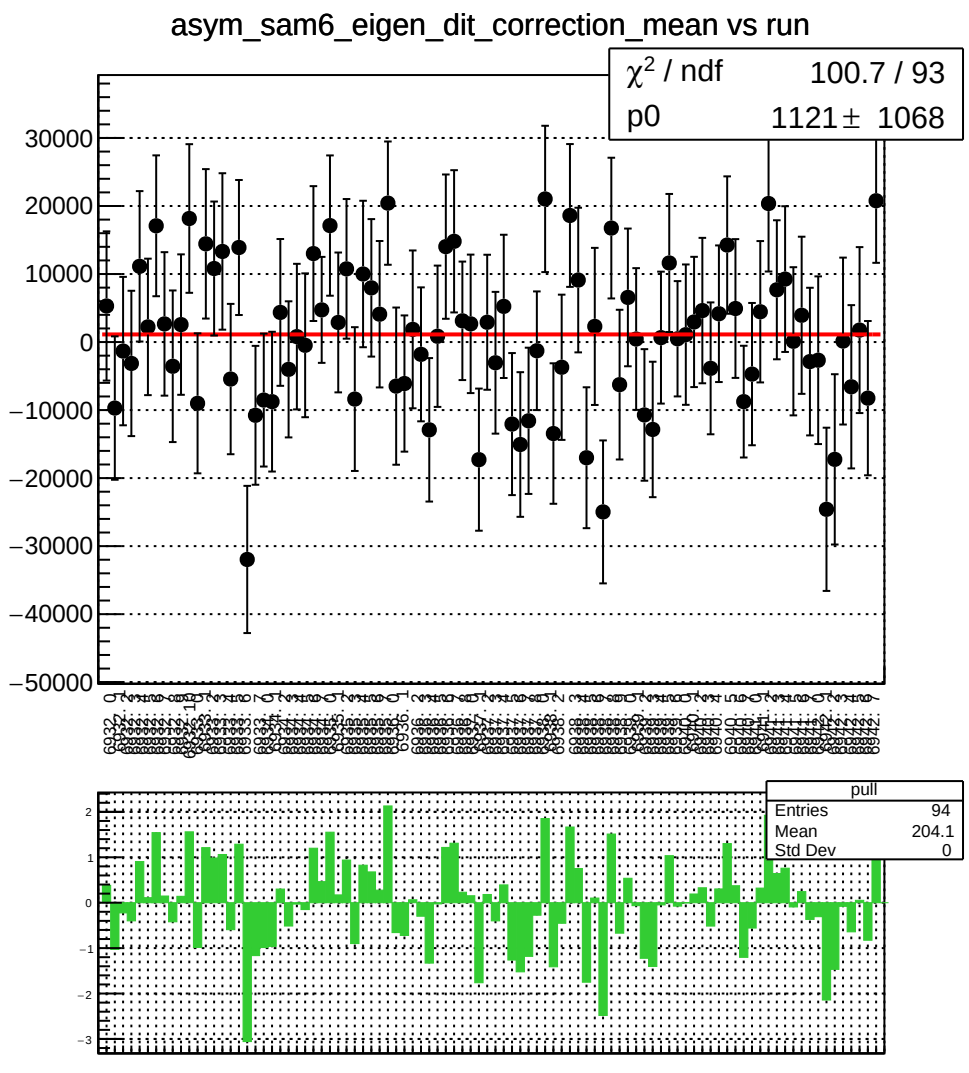

asym_sam6_dit_correction_mean vs run
χ² / ndf 100.7 / 93
p0 1121 ± 1068
pull
Entries 94
Mean 204.1
Std Dev 0

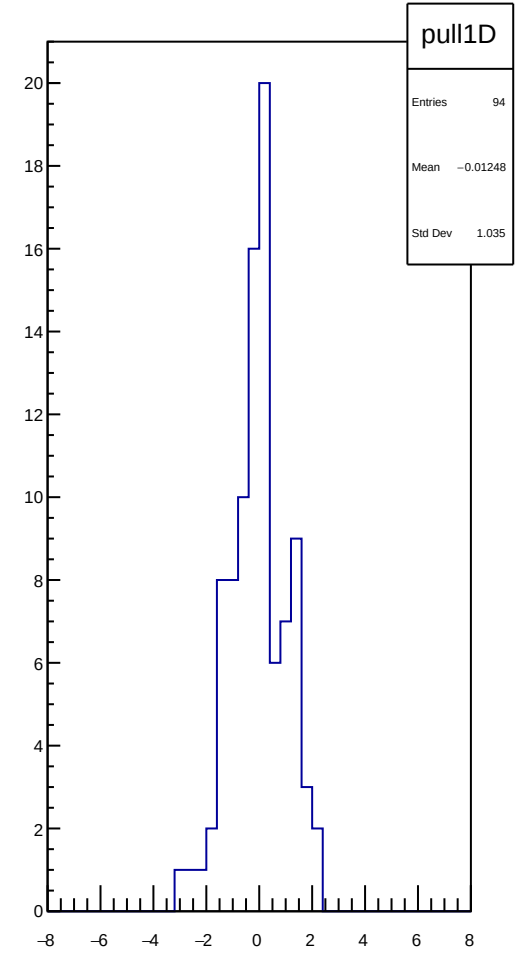

pull1D
Entries 94
Mean −0.01248
Std Dev 1.035

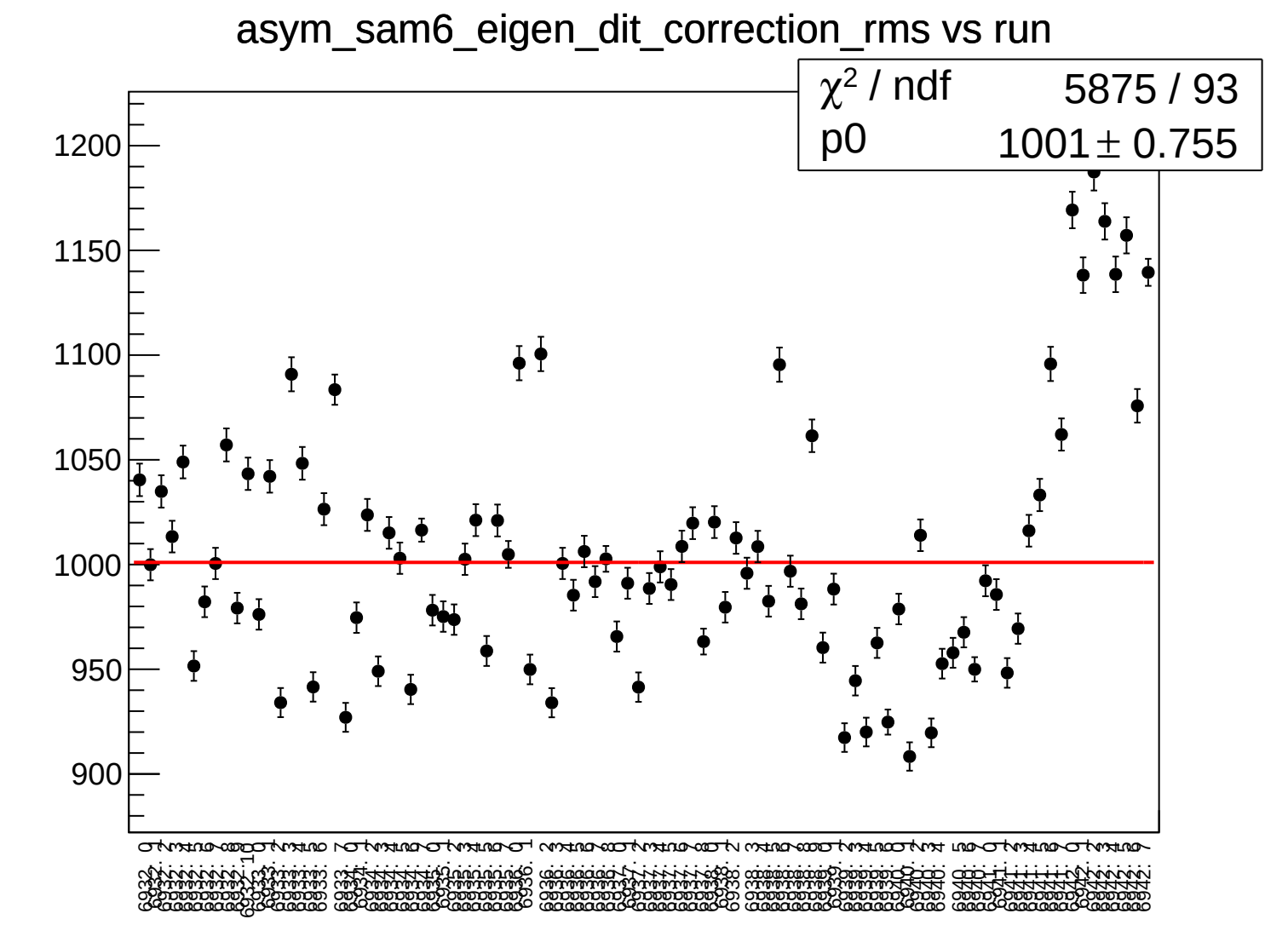

asym_sam6_dit_correction_rms vs run
χ² / ndf 5876 / 93
p0 1001 ± 0.755
1200
1150
1100
1050
1000
950
900

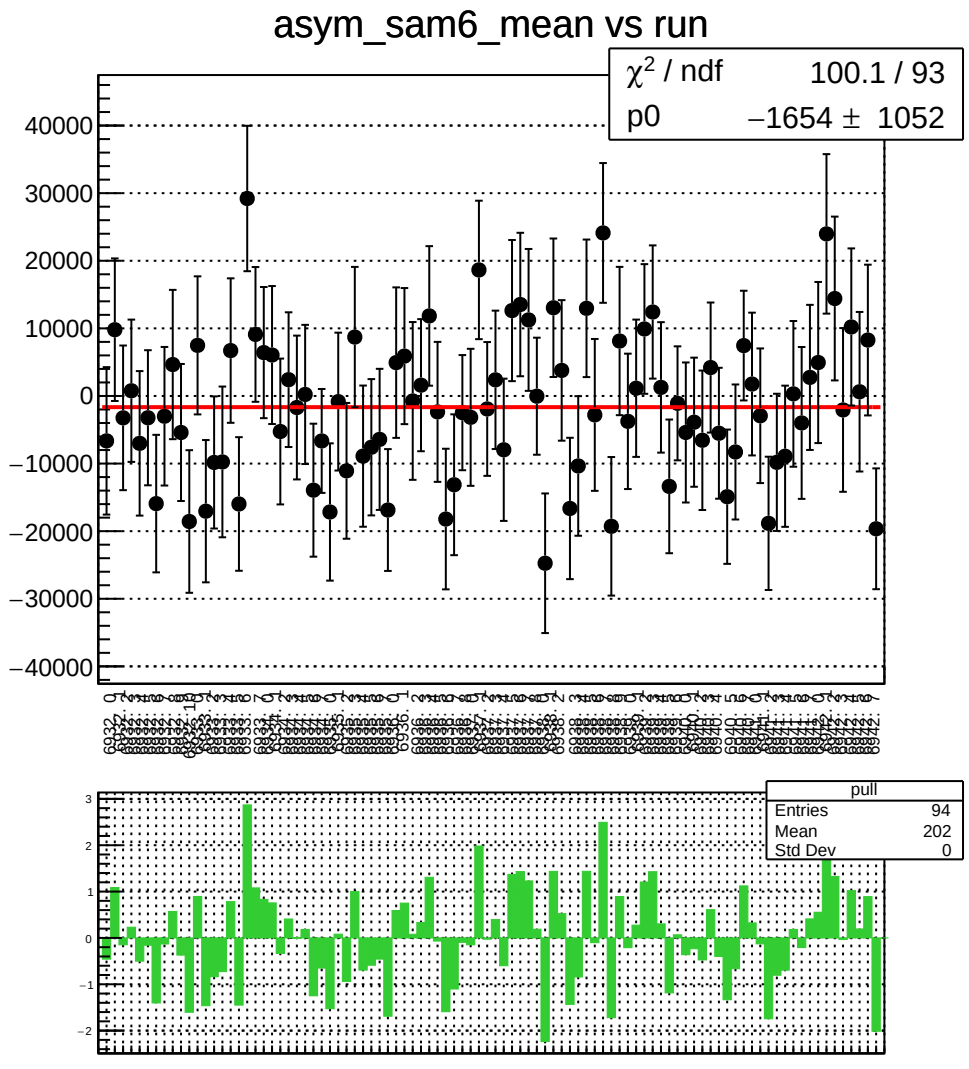

eigen_dit_asym_sam6_mean vs run
χ² / ndf 107.6 / 93
p0 −468.5 ± 176.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1214
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001923
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

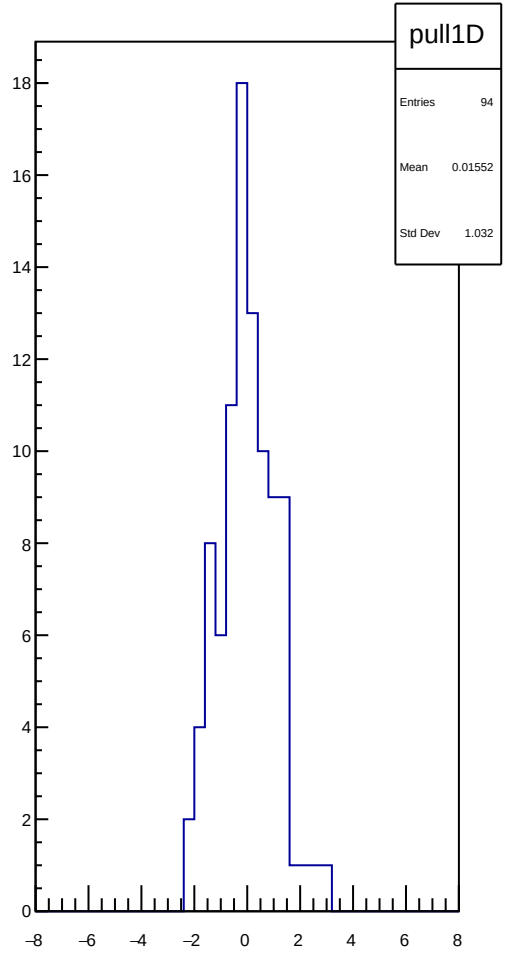

eigen_dit_asym_sam6_rms vs run
χ² / ndf 538.8 / 93
p0 166 ± 0.125
178
176
174
172
170
168
166
164
162
160
158

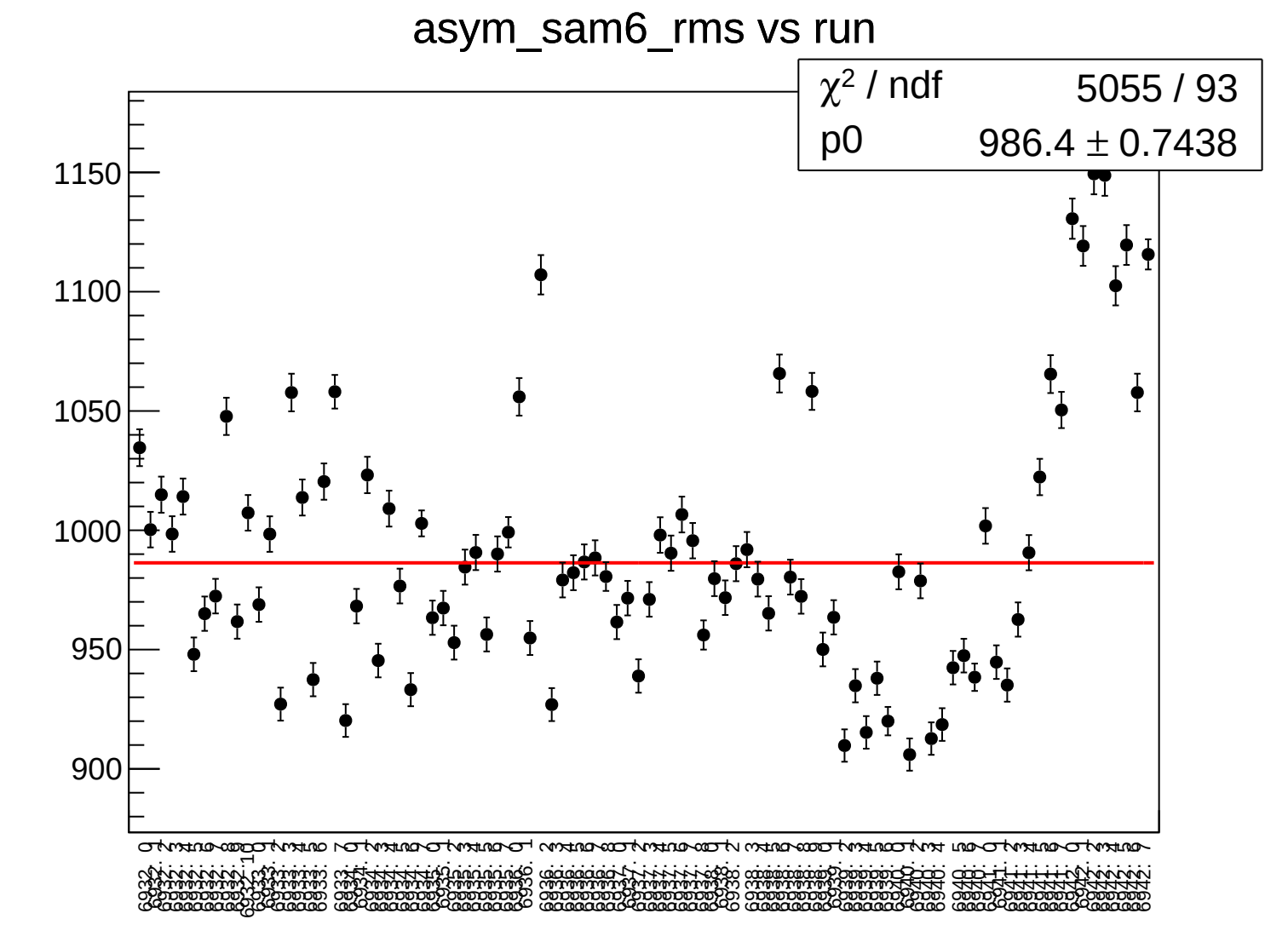

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 100.7 / 93
p0 1121 ± 1068
pull
Entries 94
Mean 204.1
Std Dev 0

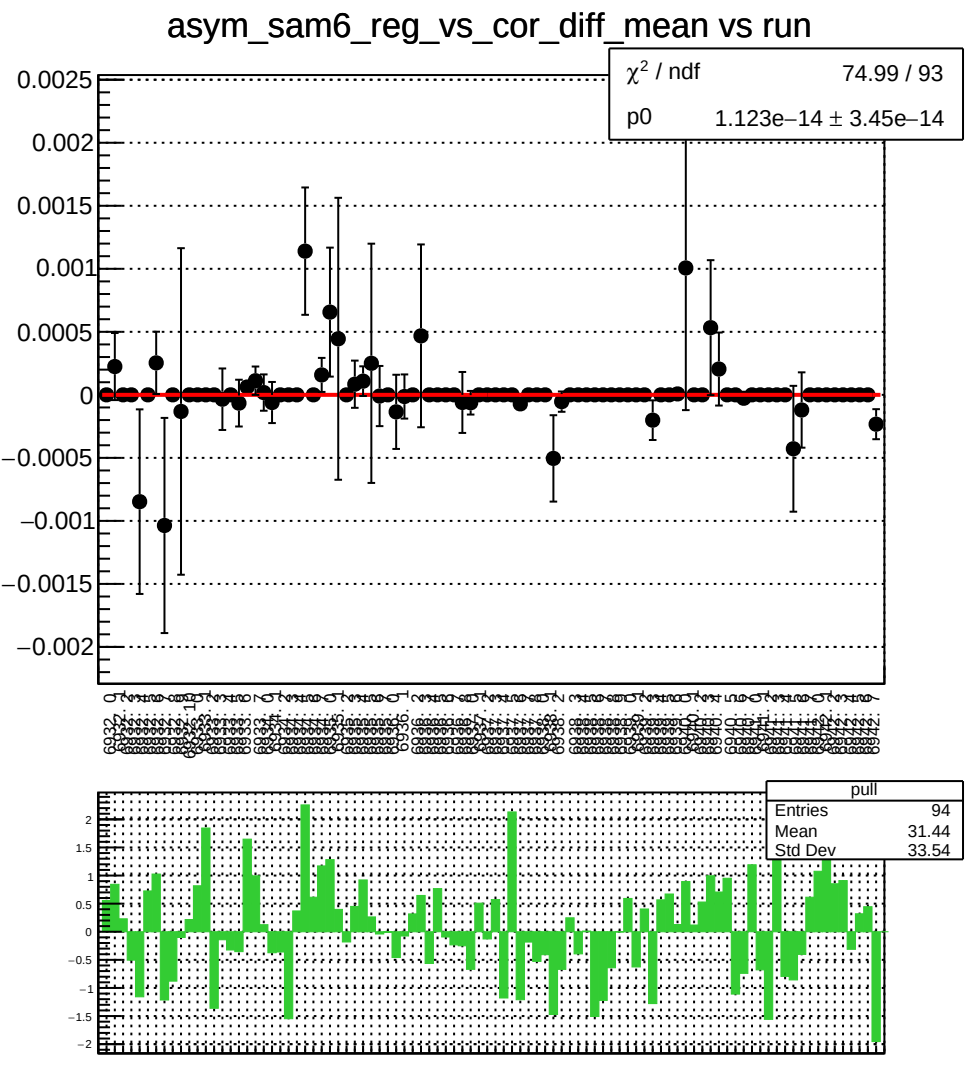

pull1D
Entries 94
Mean −0.01248
Std Dev 1.035

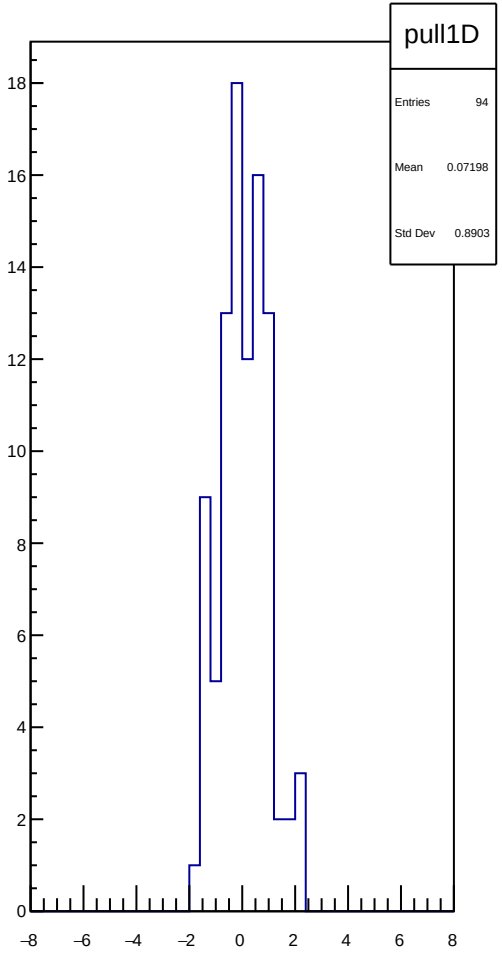

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 5875 / 93
p0 1001 ± 0.755
1200
1150
1100
1050
1000
950
900

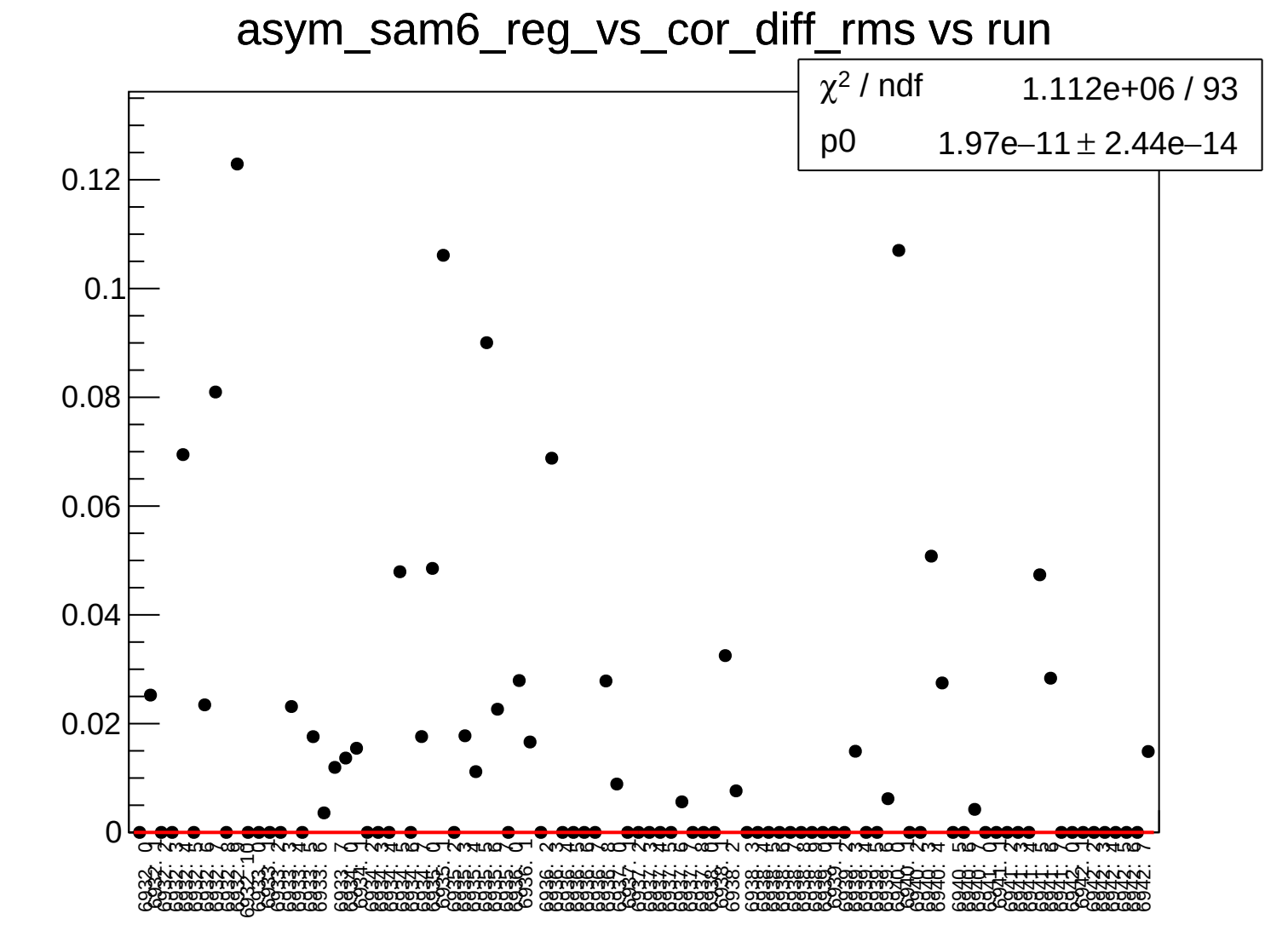

asym_sam6_mean vs run
χ² / ndf 100.1 / 93
p0 −1654 ± 1052
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 202
Std Dev 0
3
2
1
0
−1
−2

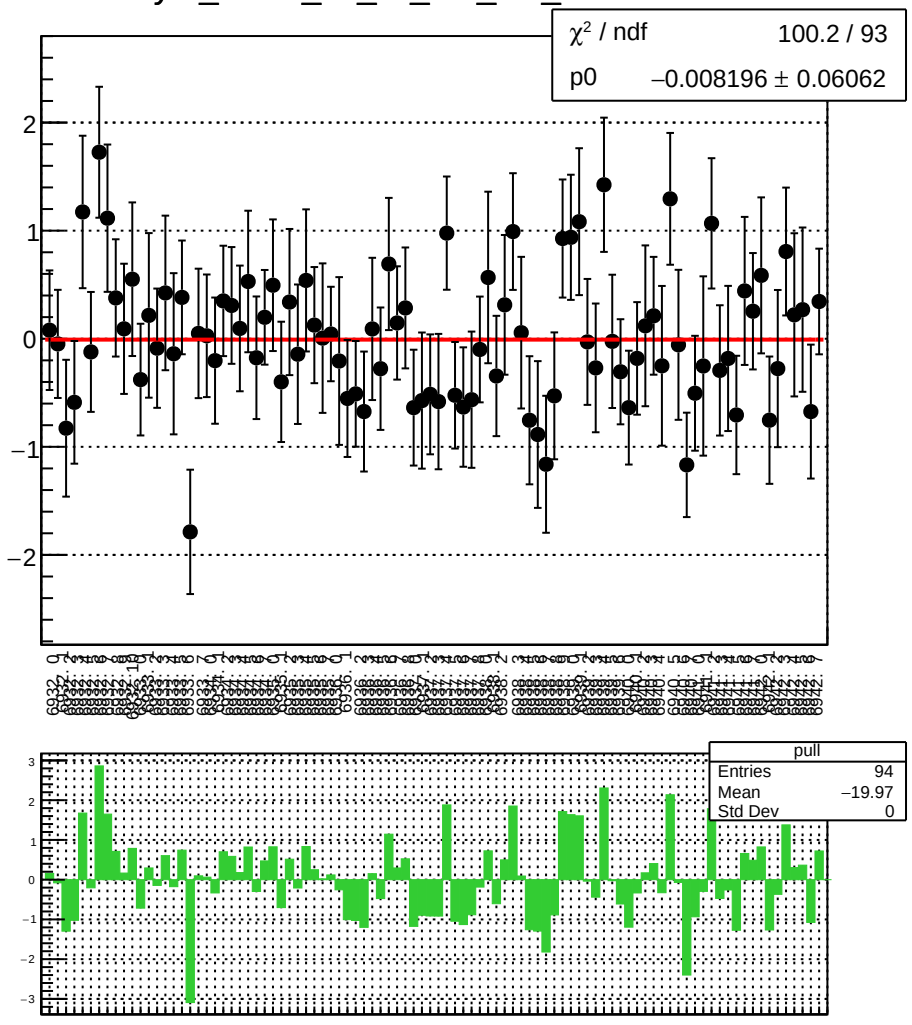

pull1D
Entries 94
Mean 0.01552
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

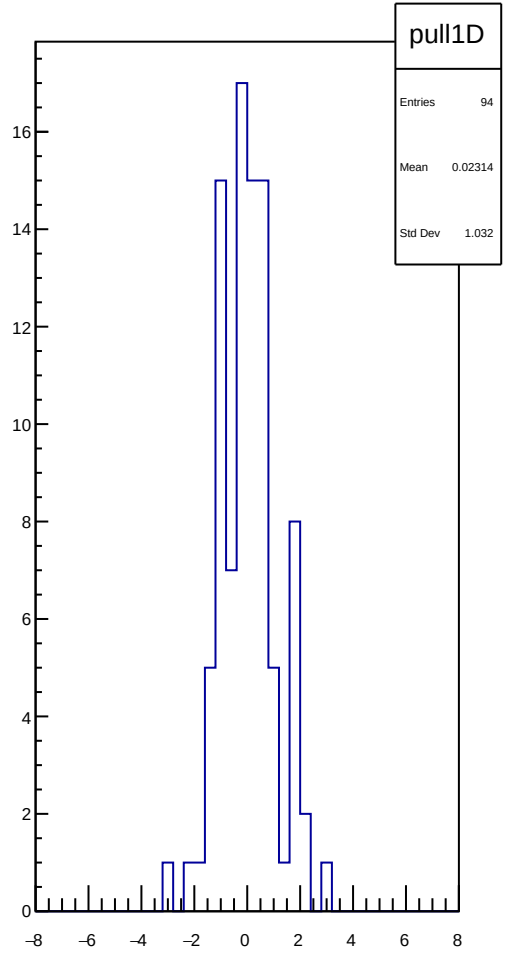

asym_sam6_rms vs run
χ² / ndf 5055 / 93
p0 986.4 ± 0.7438
1150
1100
1050
1000
950
900

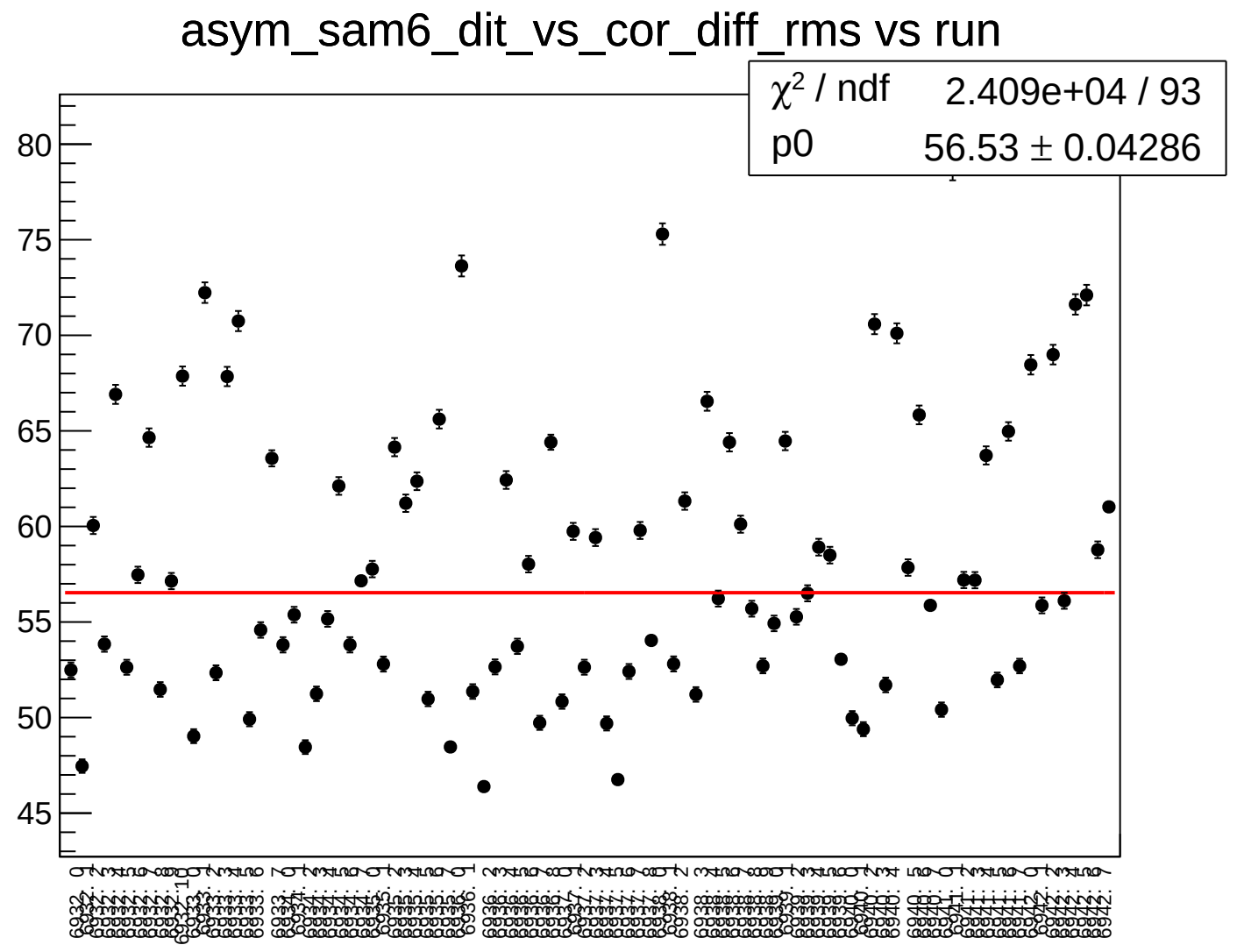

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 74.99 / 93
p0 1.123e−14 ± 3.45e−14
pull
Entries 94
Mean 31.44
Std Dev 33.54

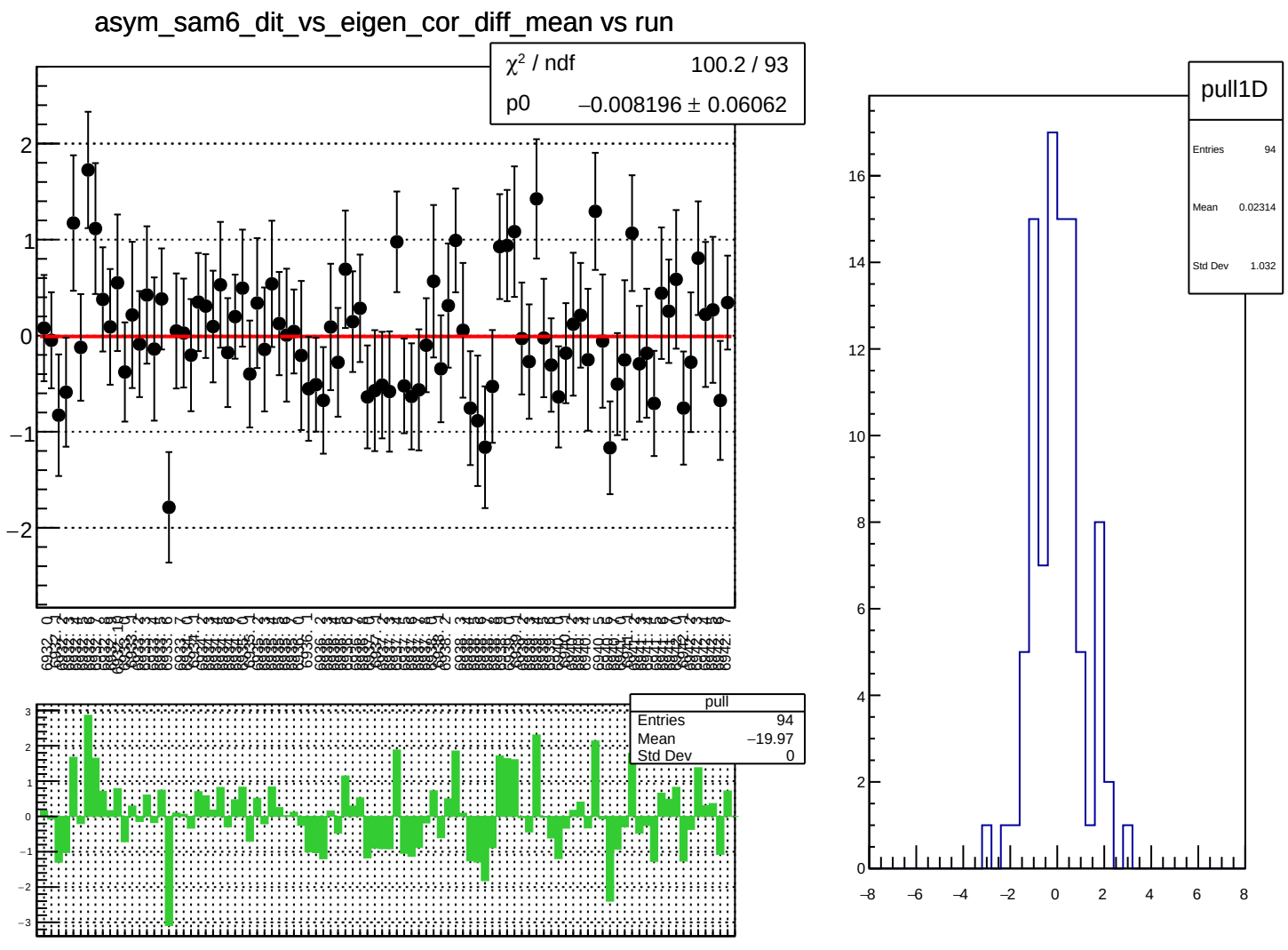

pull1D
Entries 94
Mean 0.07198
Std Dev 0.8903

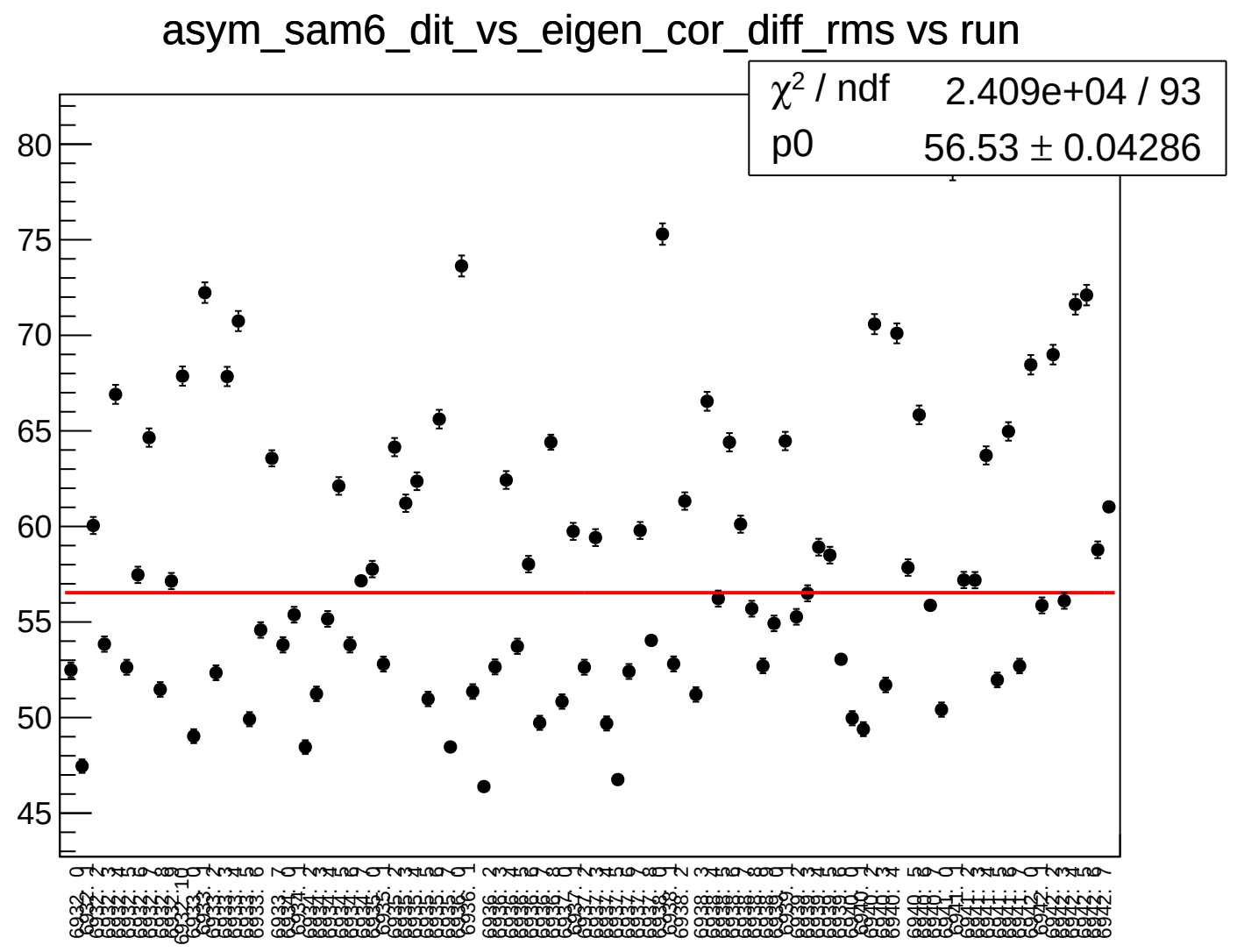

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 93
p0 1.97e−11 ± 2.44e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

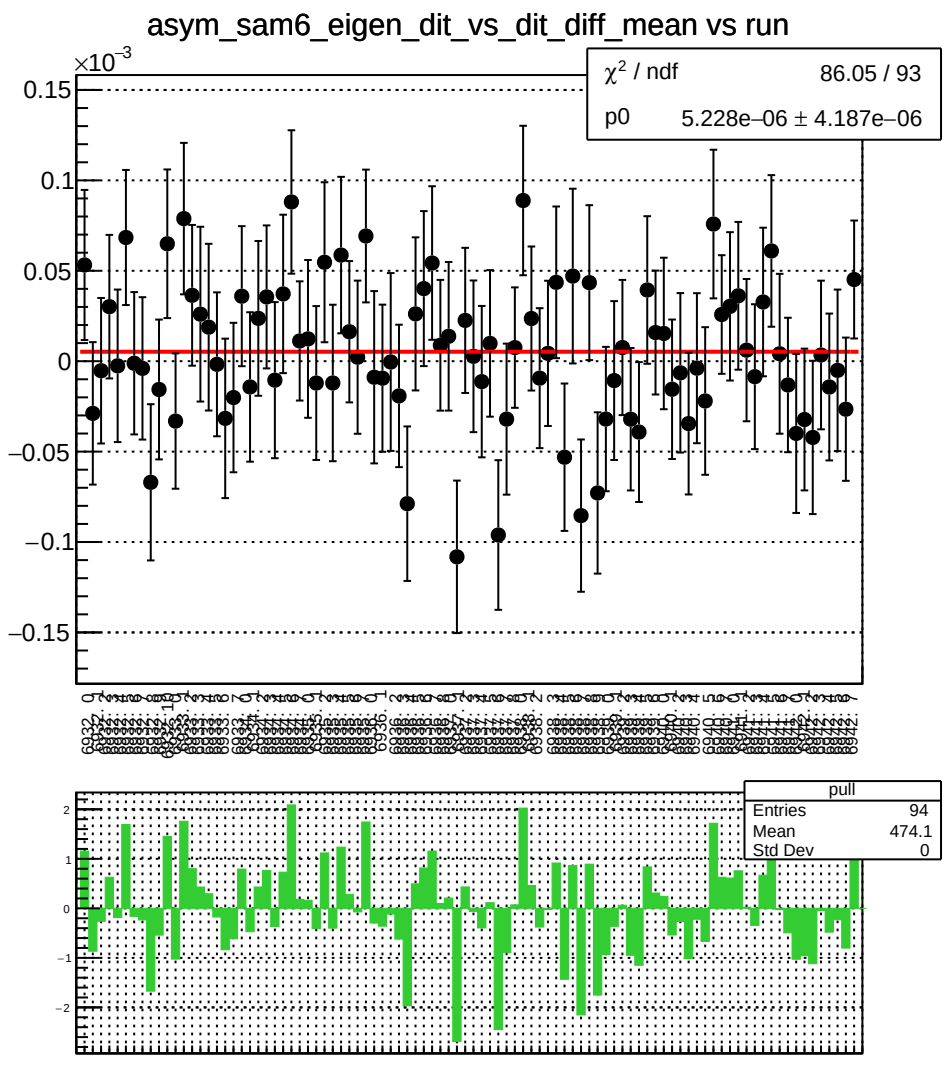

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 93
p0 −0.008196 ± 0.06062
pull
Entries 94
Mean −19.97
Std Dev 0

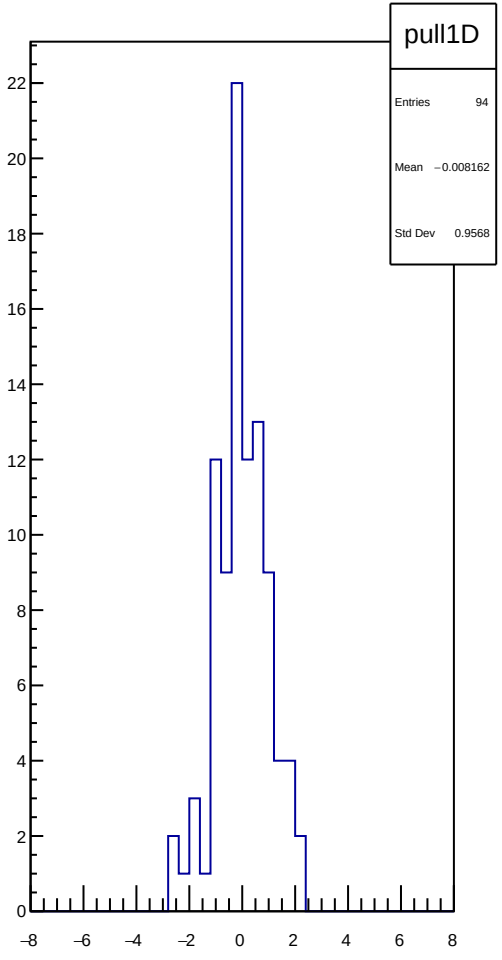

pull1D
Entries 94
Mean 0.02314
Std Dev 1.032

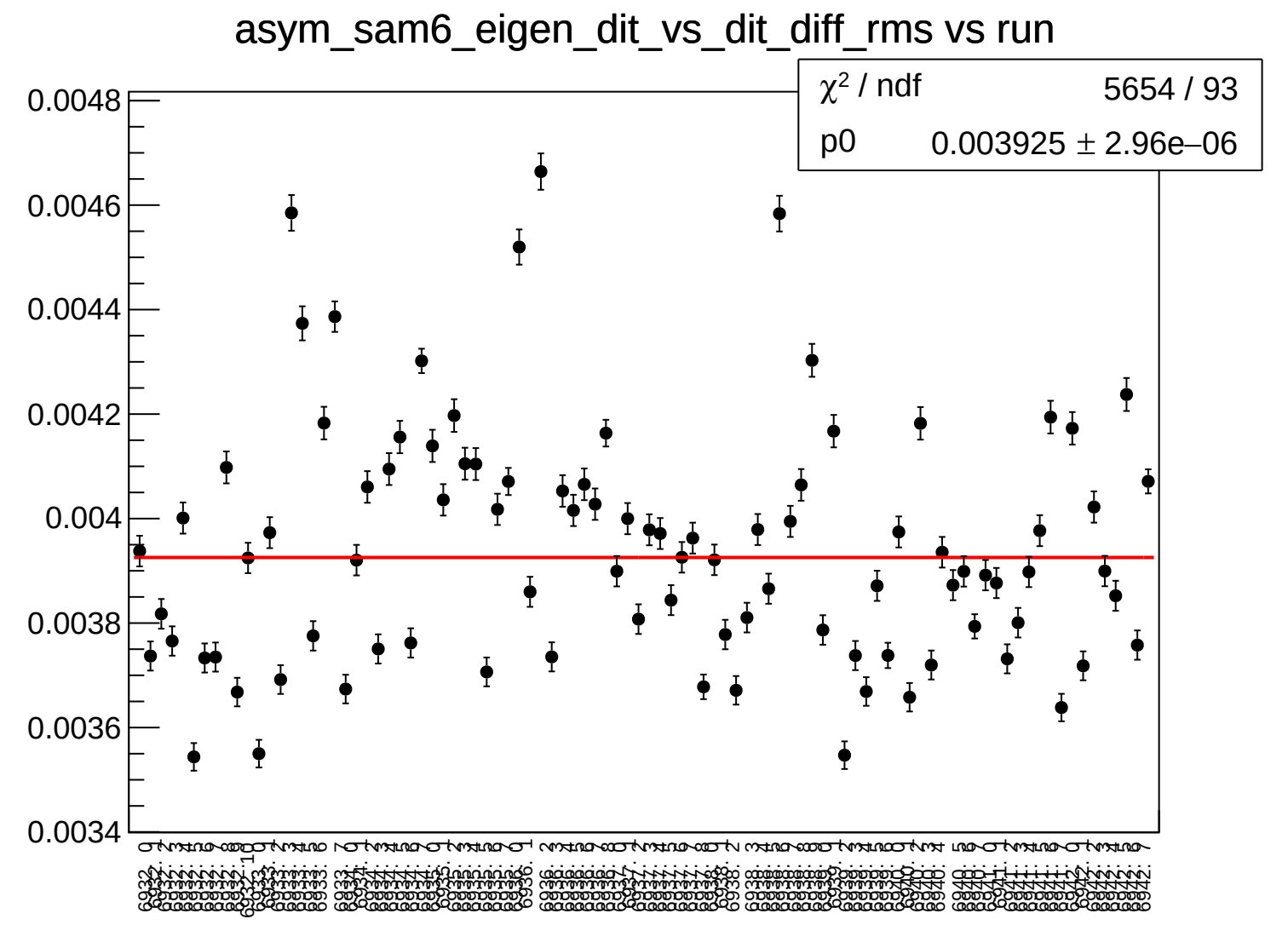

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 2.409e+04 / 93
p0 56.53 ± 0.04286
80
75
70
65
60
55
50
45

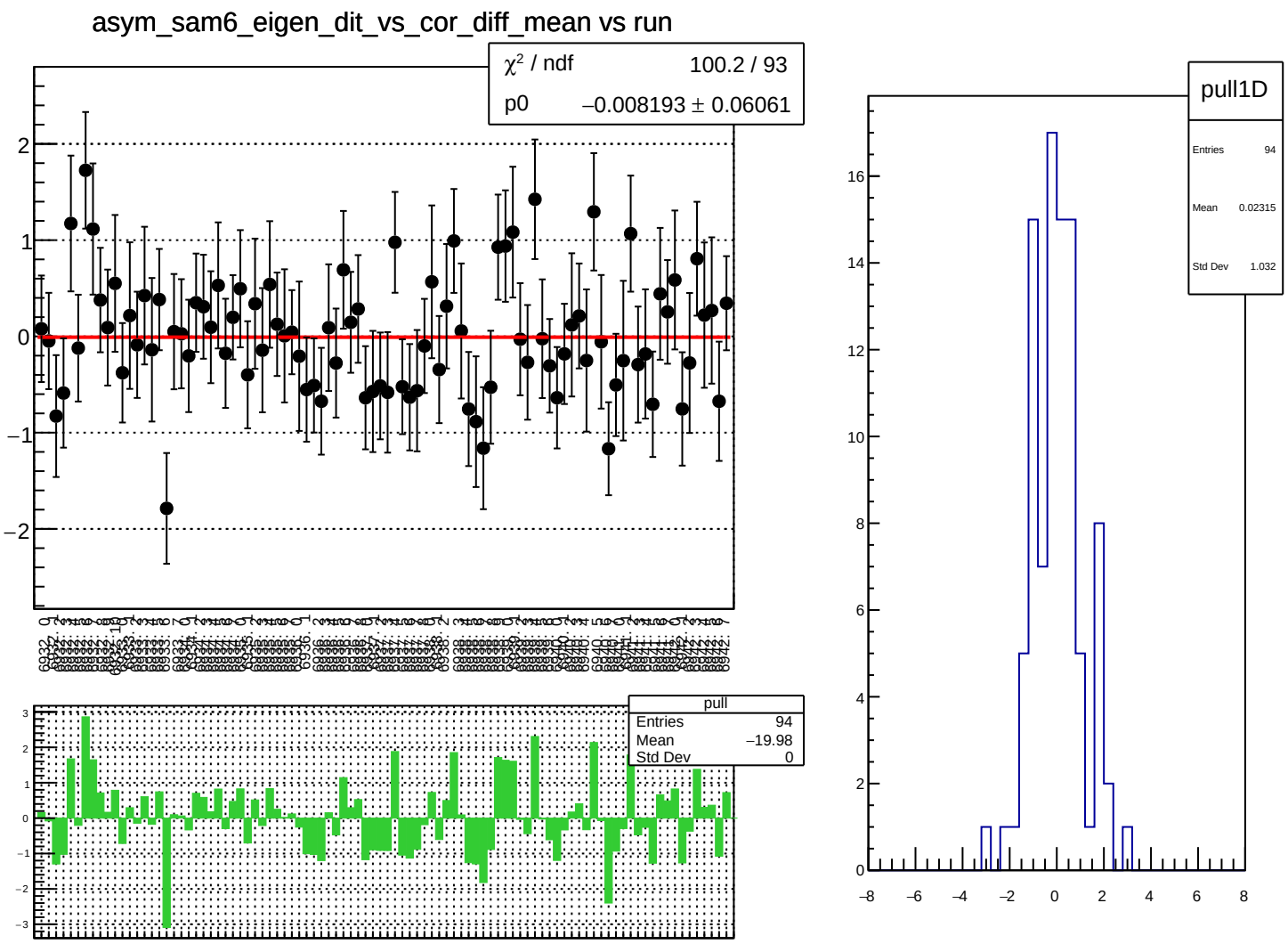

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 93
p0 −0.008196 ± 0.06062
pull
Entries 94
Mean −19.97
Std Dev 0
pull1D
Entries 94
Mean 0.02314
Std Dev 1.032

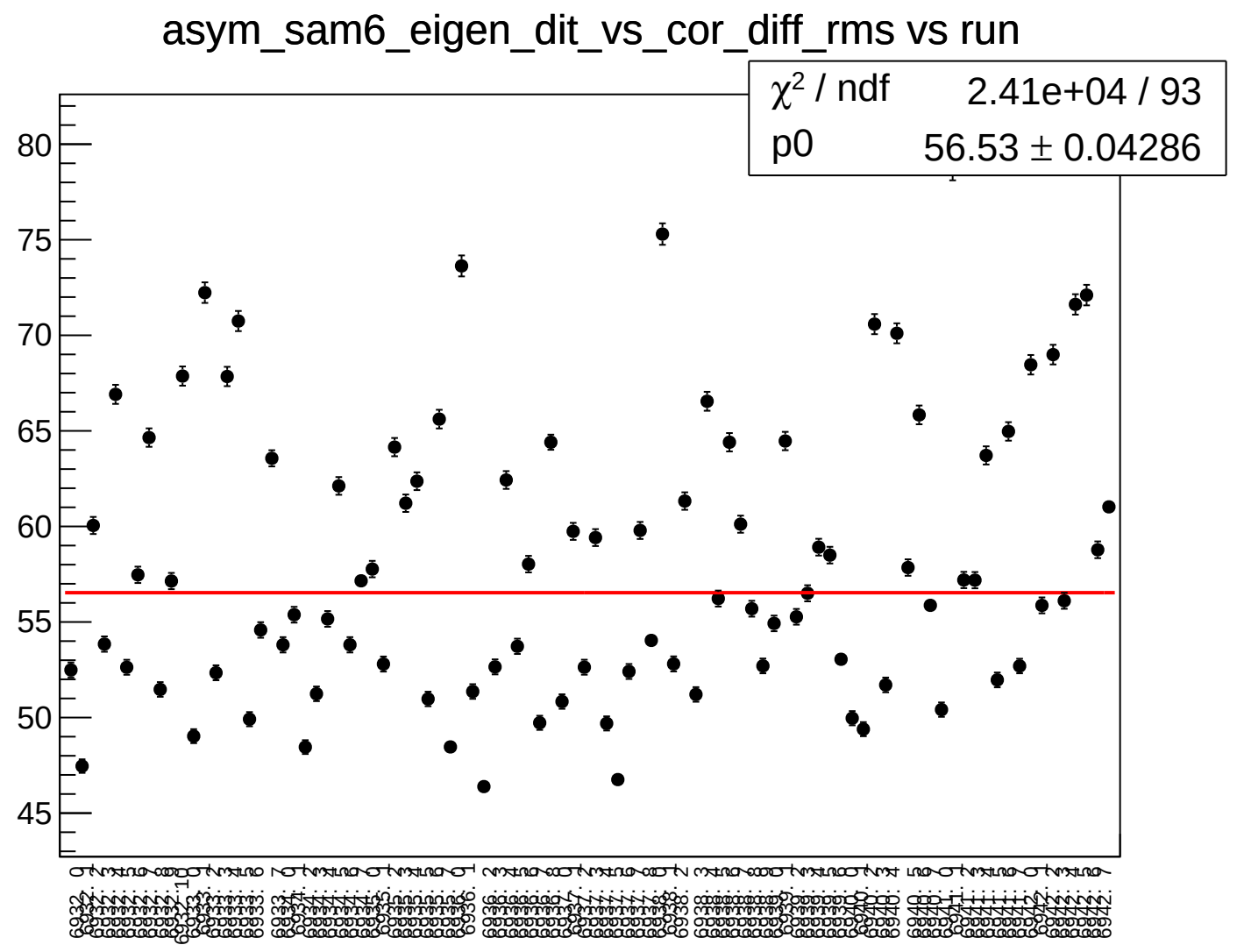

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.409e+04 / 93
p0 56.53 ± 0.04286
80
75
70
65
60
55
50
45

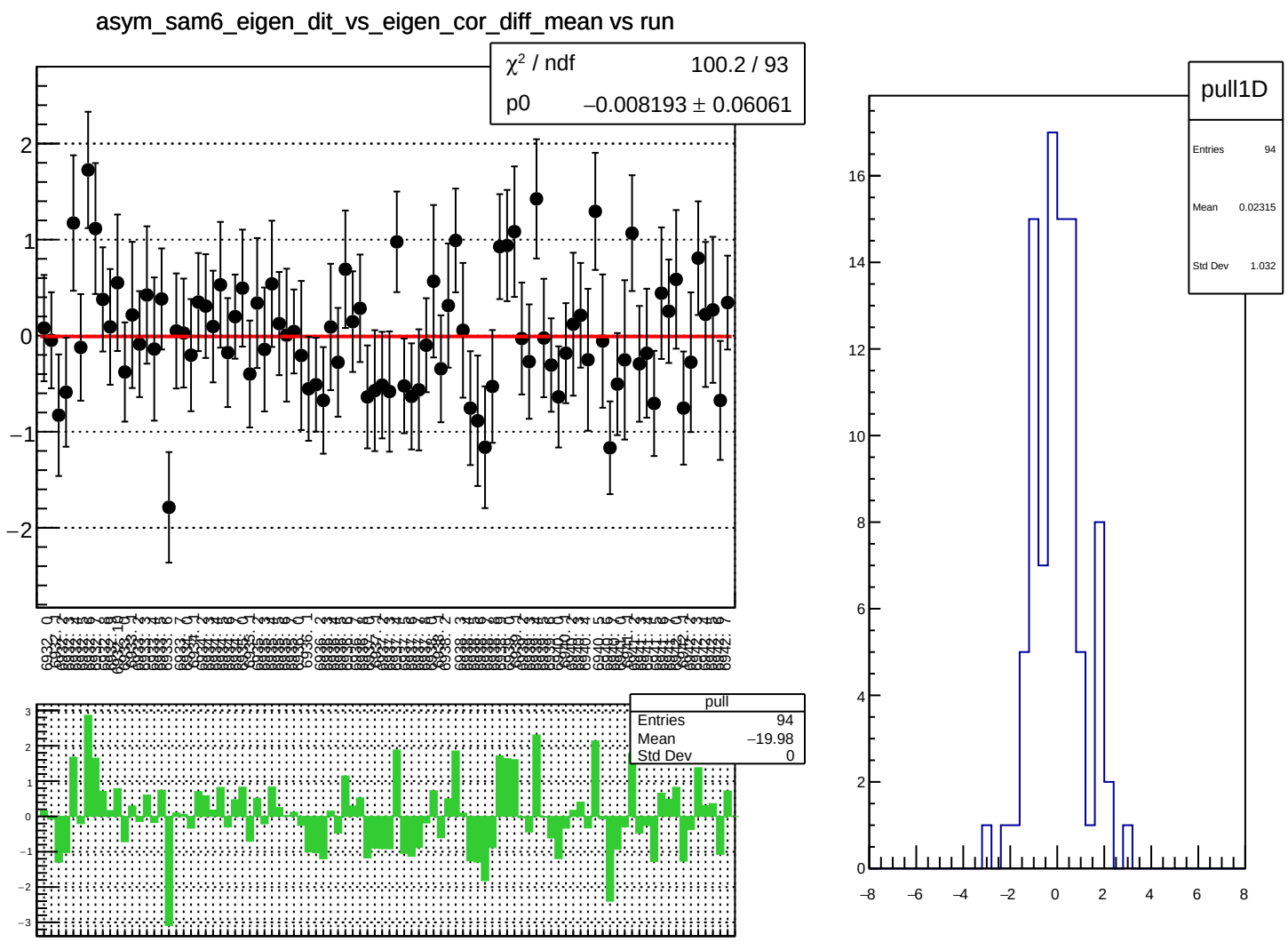

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.05 / 93
p0 5.228e−06 ± 4.187e−06
pull
Entries 94
Mean 474.1
Std Dev 0

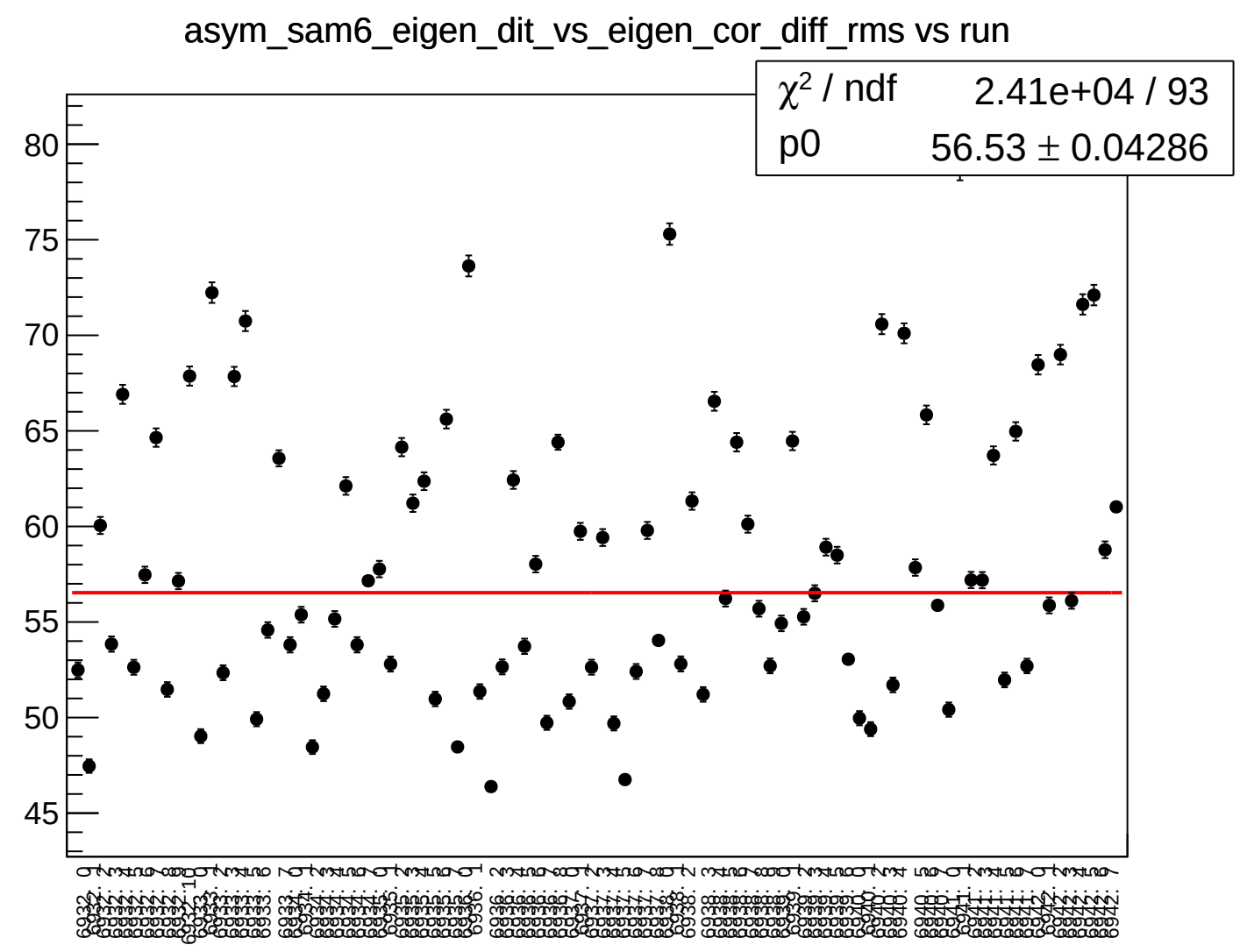

pull1D
Entries 94
Mean −0.008162
Std Dev 0.9568

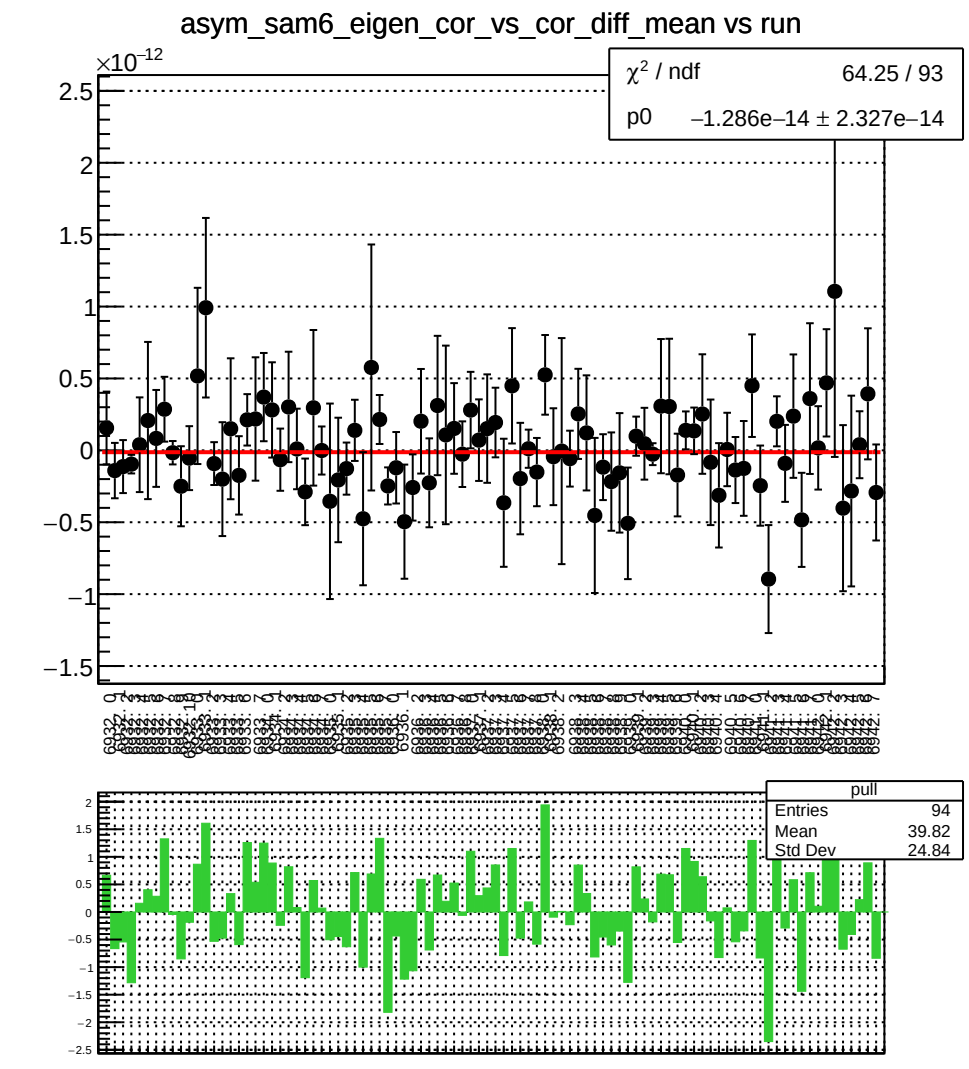

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5654 / 93
p0 0.003925 ± 2.96e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

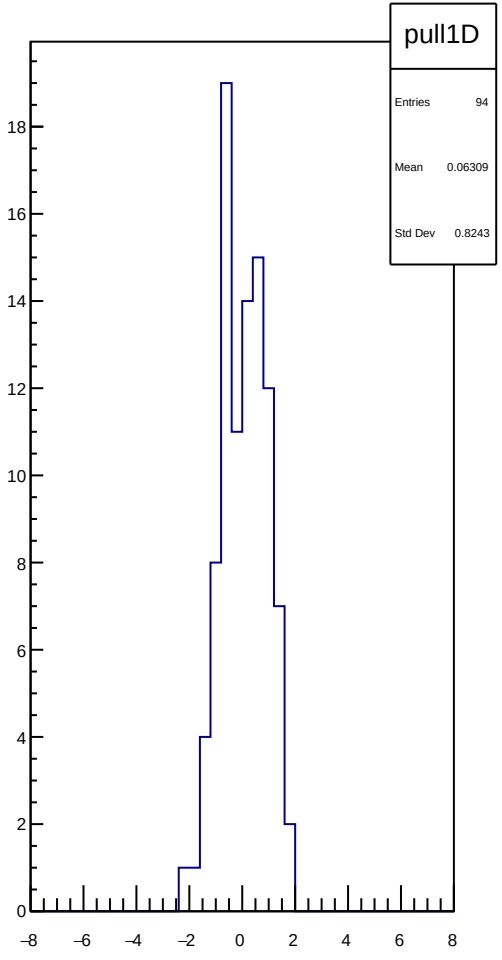

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 93
p0 −0.008193 ± 0.06061
pull
Entries 94
Mean −19.98
Std Dev 0
pull1D
Entries 94
Mean 0.02315
Std Dev 1.032

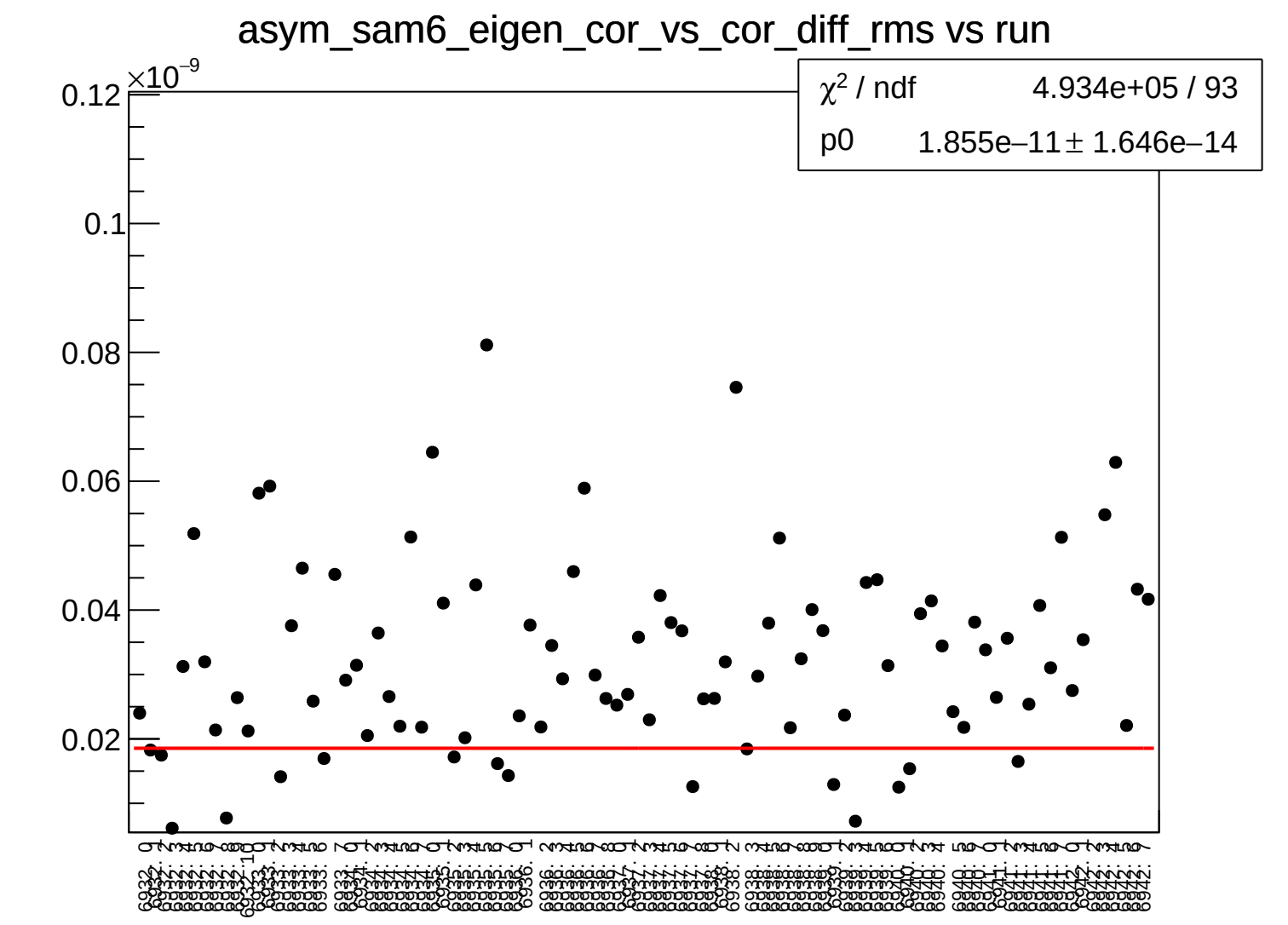

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.41e+04 / 93
p0 56.53 ± 0.04286
80
75
70
65
60
55
50
45

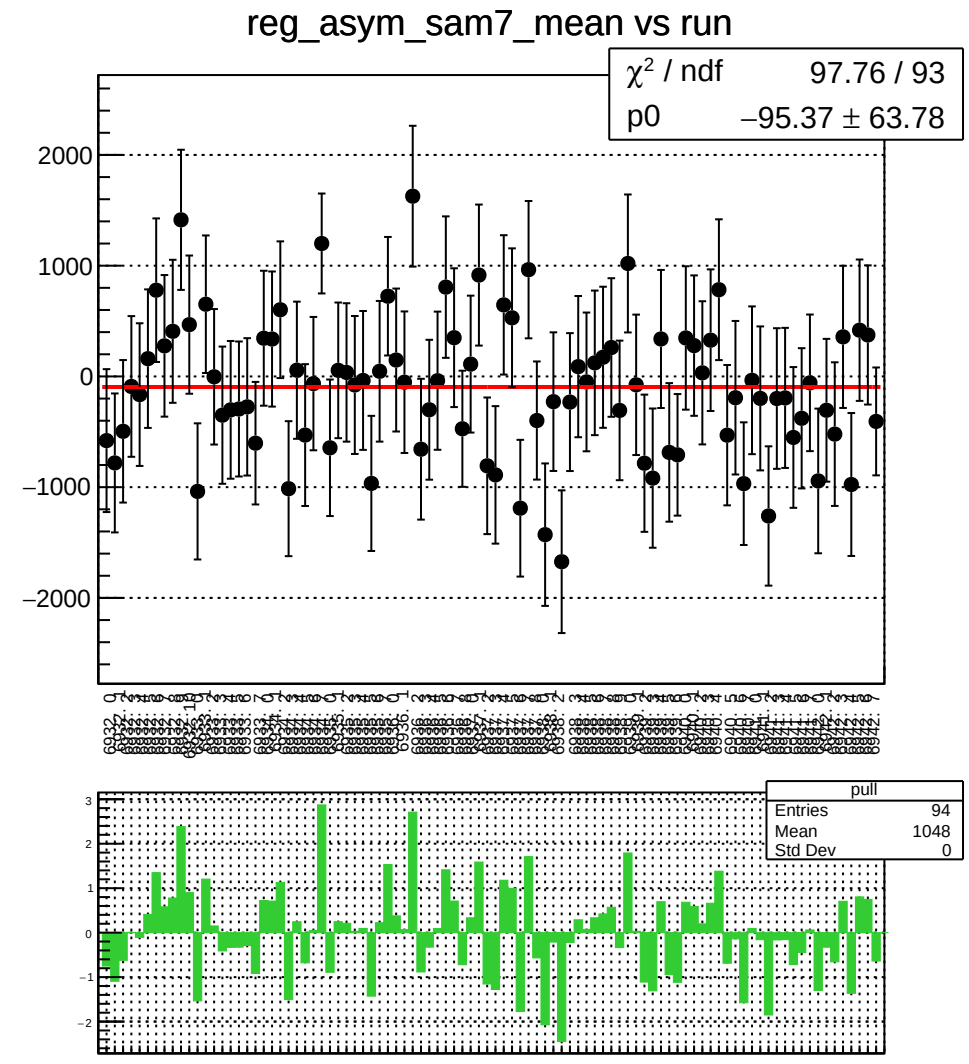

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 93
p0 −0.008193 ± 0.06061
pull
Entries 94
Mean −19.98
Std Dev 0
pull1D
Entries 94
Mean 0.02315
Std Dev 1.032

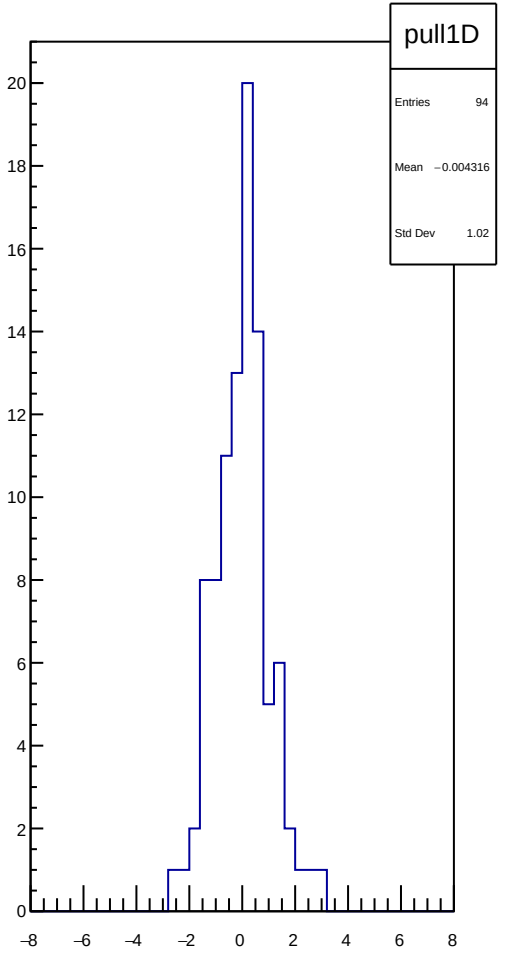

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.41e+04 / 93
p0 56.53 ± 0.04286
80
75
70
65
60
55
50
45

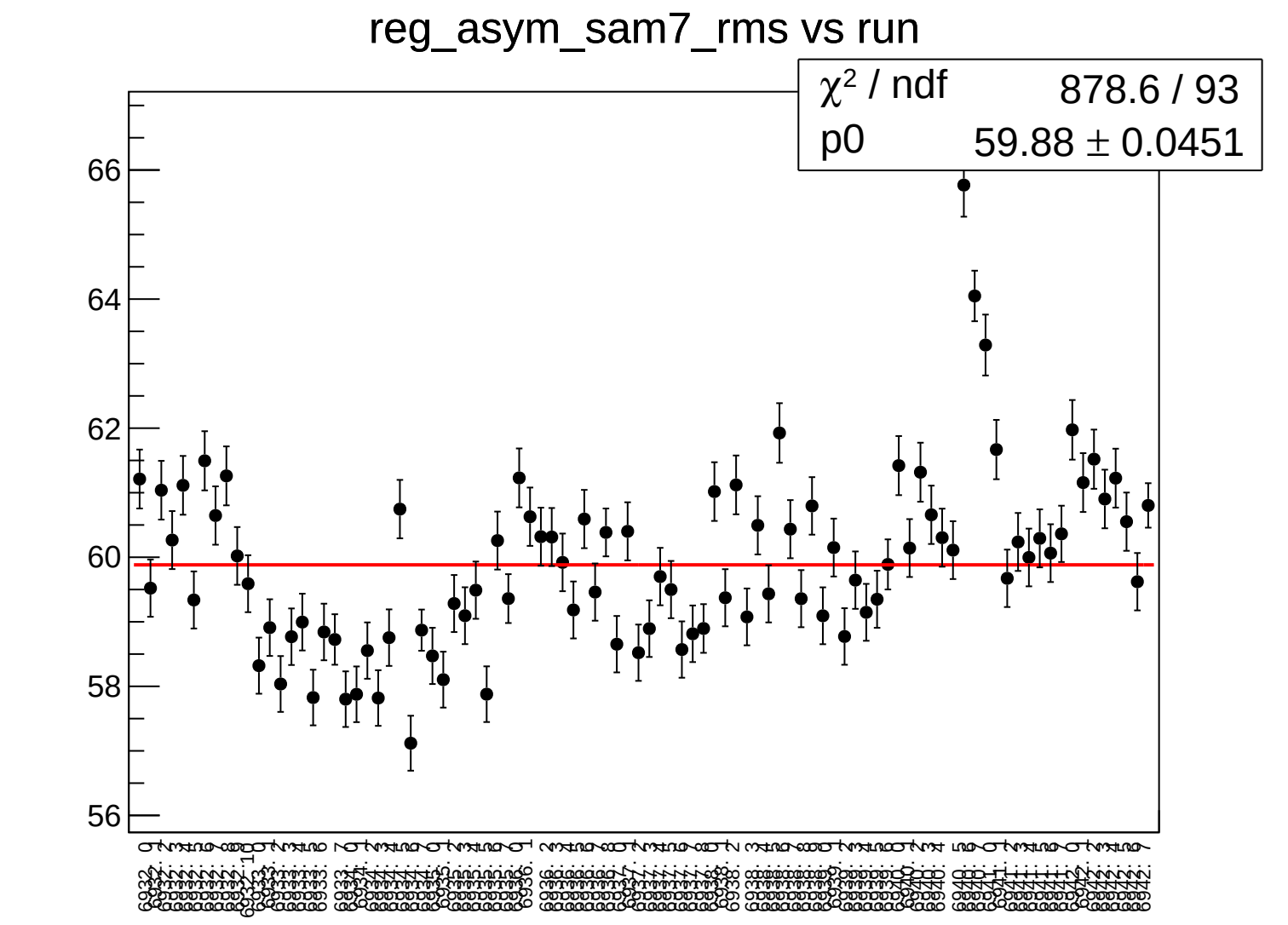

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 64.25 / 93
p0 −1.286e−14 ± 2.327e−14
pull
Entries 94
Mean 39.82
Std Dev 24.84

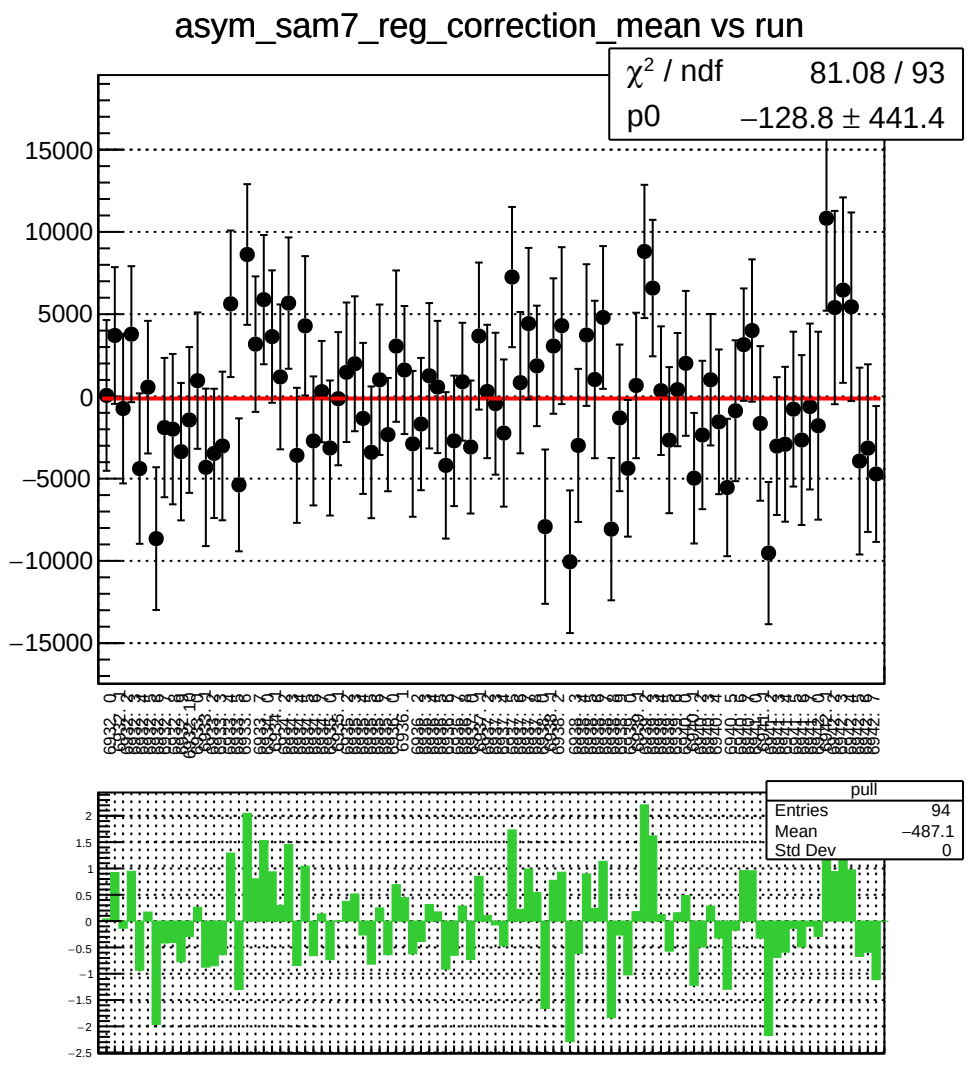

pull1D
Entries 94
Mean 0.06309
Std Dev 0.8243

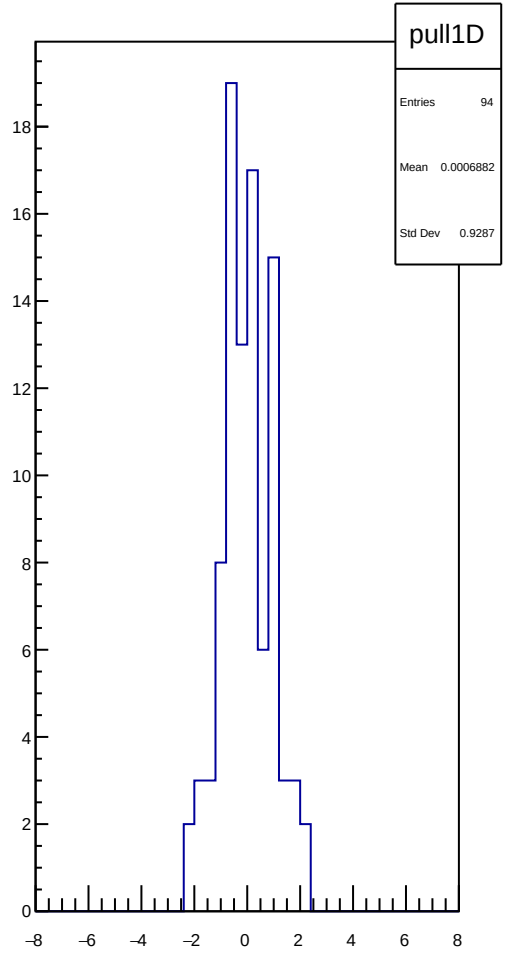

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.934e+05 / 93
p0 1.855e−11 ± 1.646e−14
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02

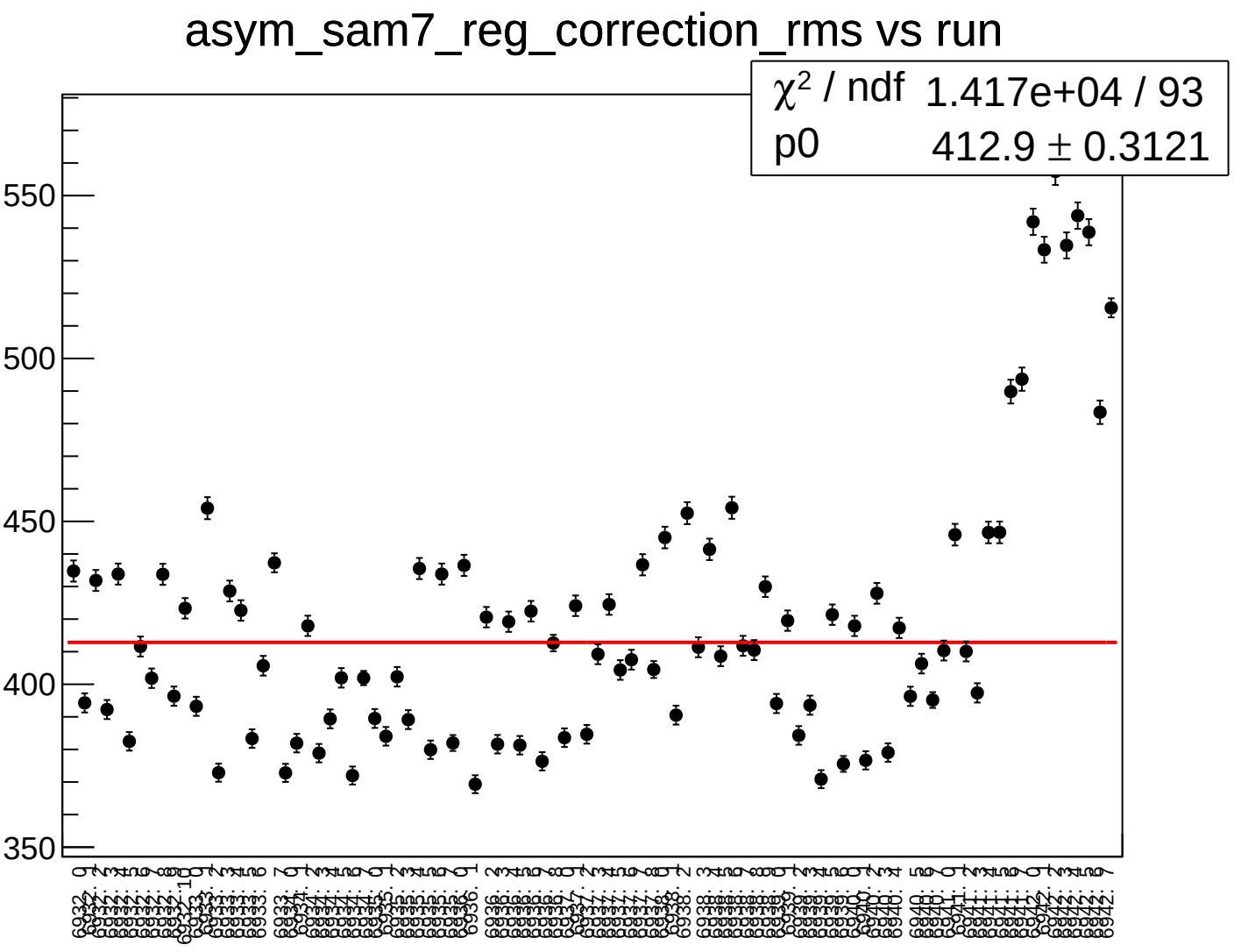

reg_asym_sam7_mean vs run
χ² / ndf 97.76 / 93
p0 −95.37 ± 63.78
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 1048
Std Dev 0
3
2
1
0
−1
−2

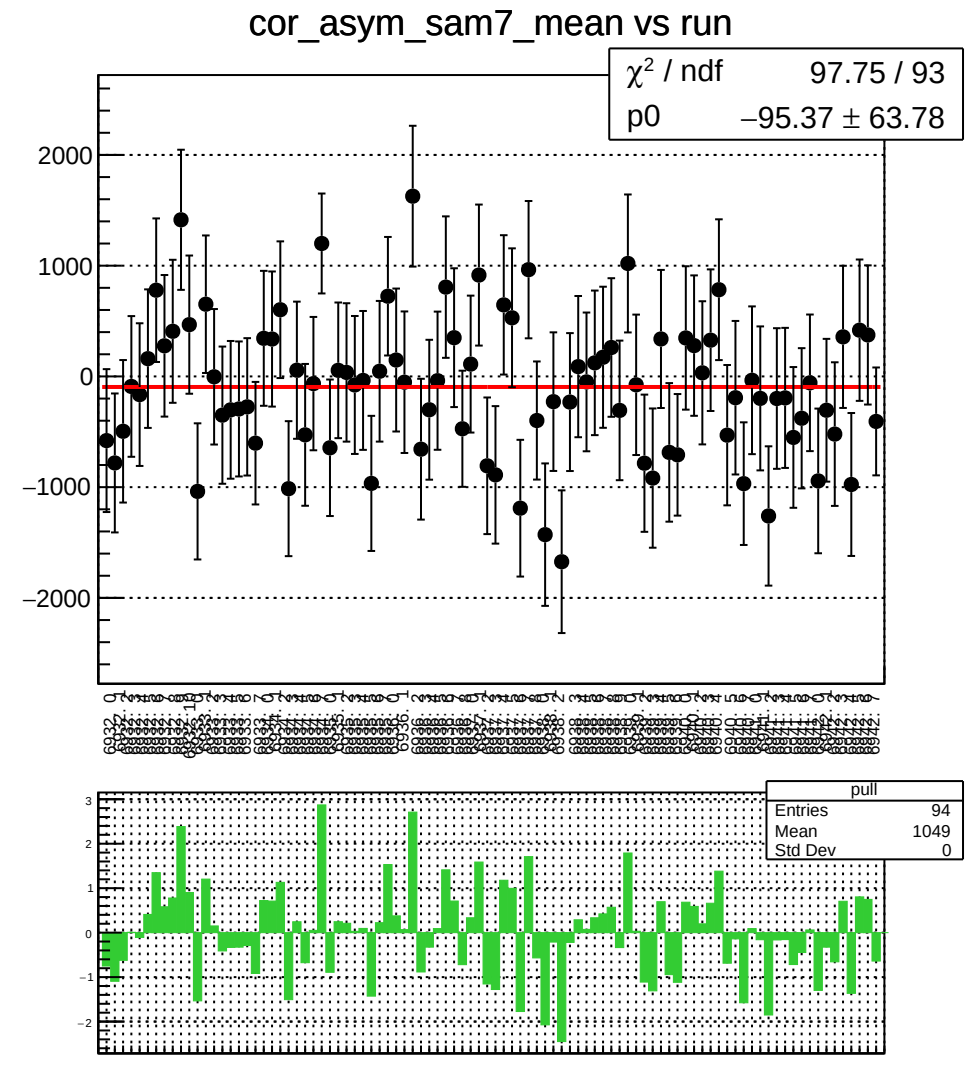

pull1D
Entries 94
Mean −0.004316
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

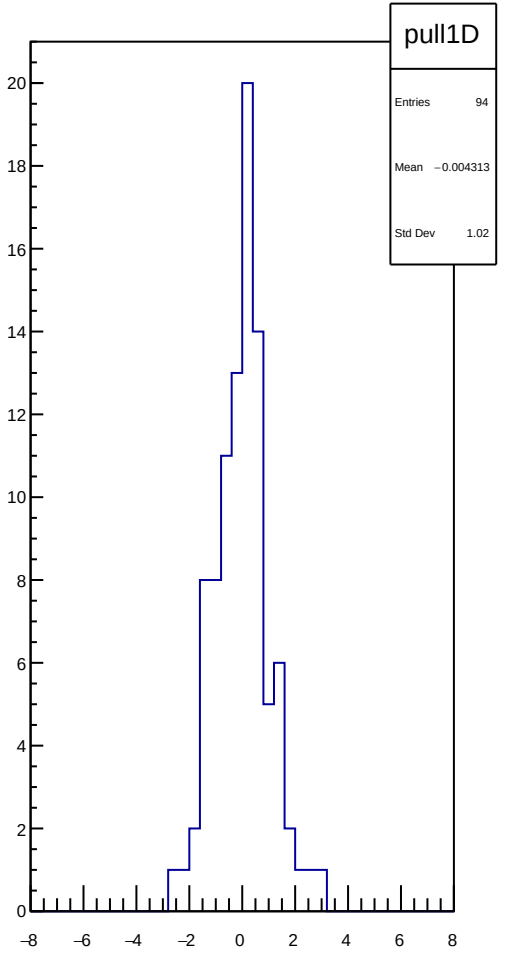

reg_asym_sam7_rms vs run
χ² / ndf 878.6 / 93
p0 59.88 ± 0.0451
66
64
62
60
58
56

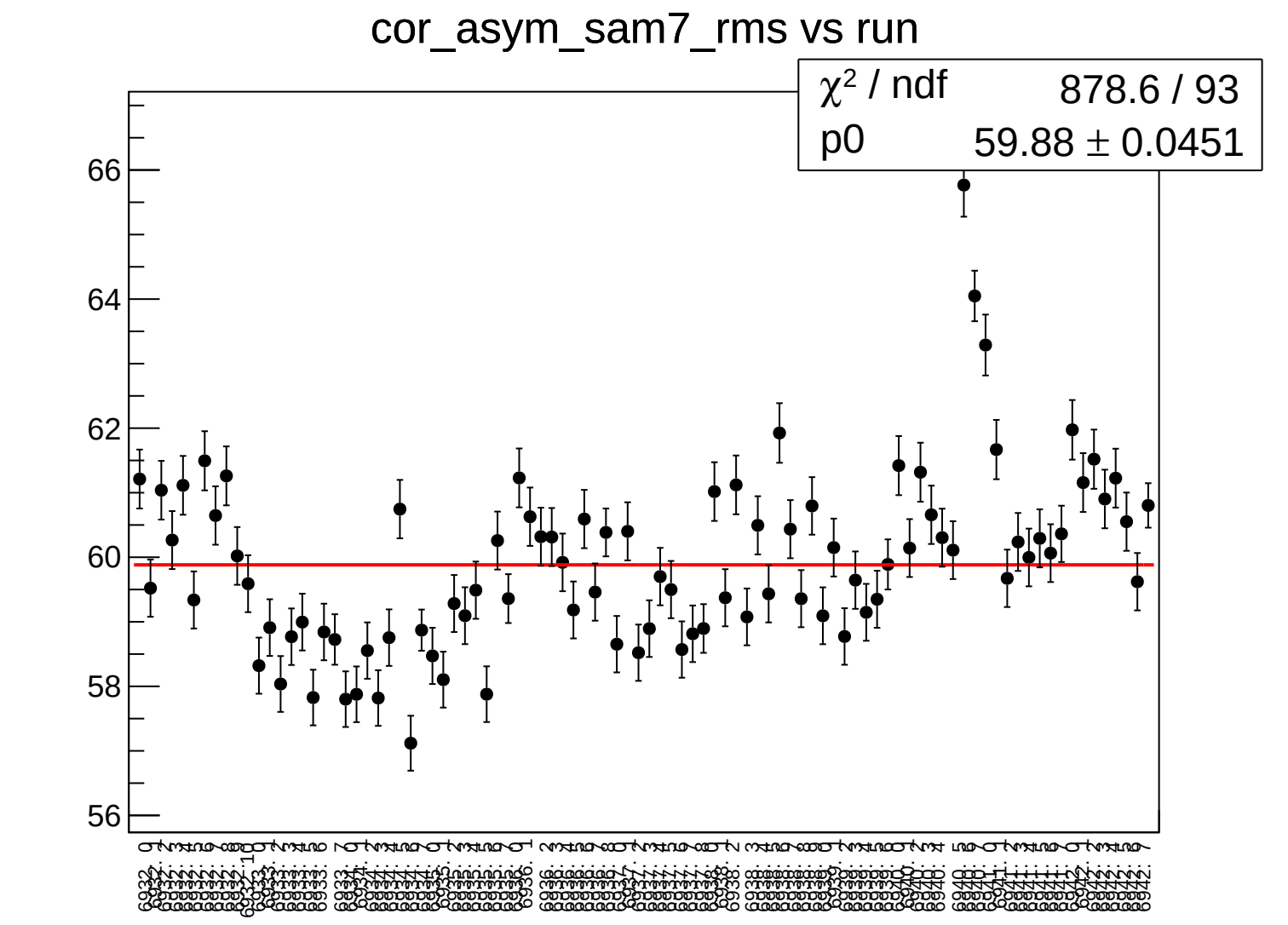

asym_sam7_reg_correction_mean vs run
χ² / ndf 81.08 / 93
p0 −128.8 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −487.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

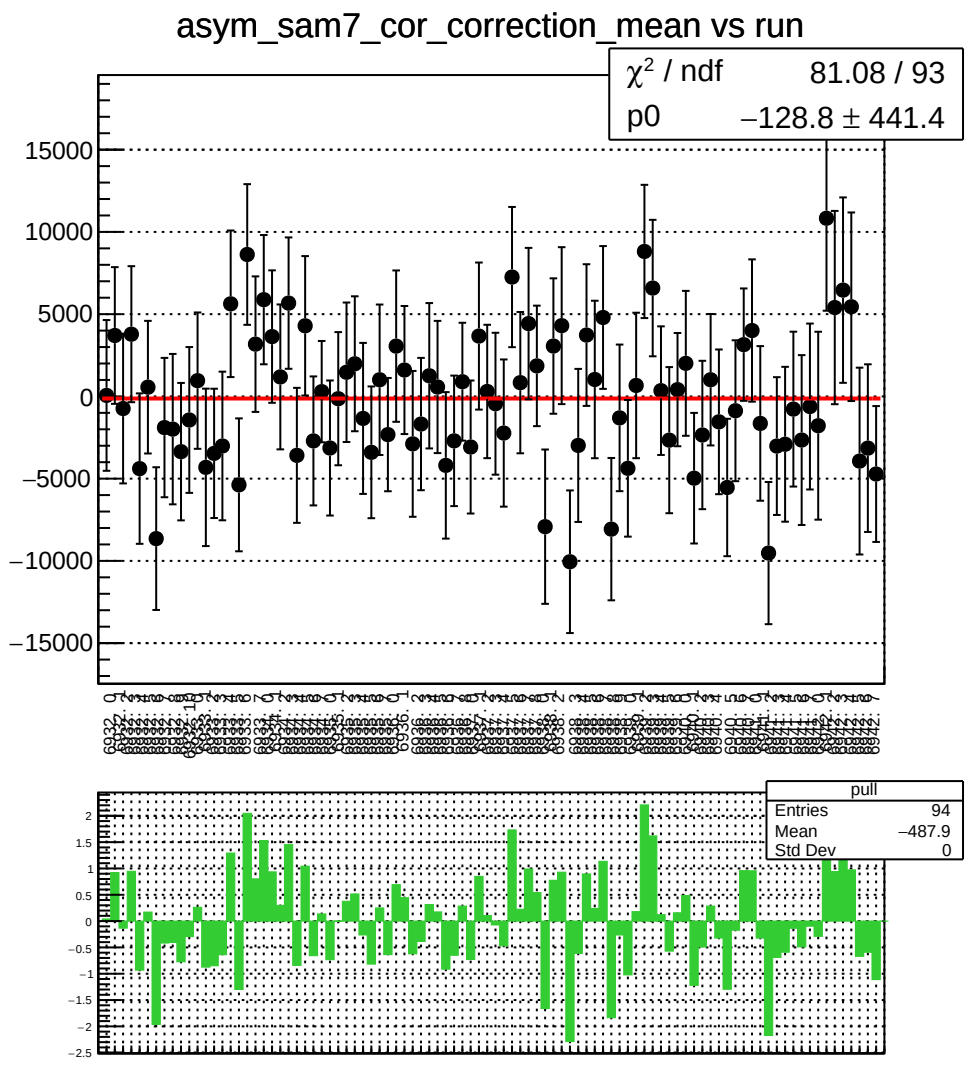

pull1D
Entries 94
Mean 0.0006882
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

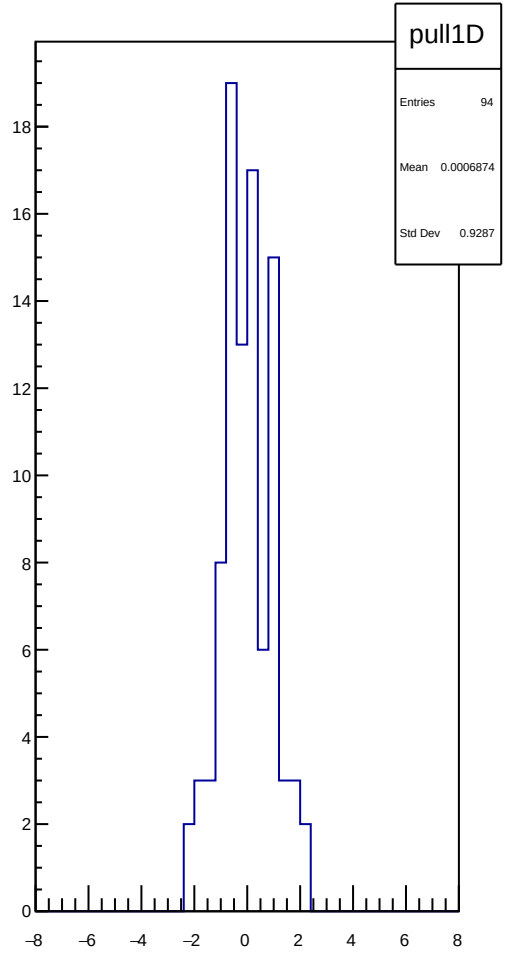

asym_sam7_reg_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 412.9 ± 0.3121
550
500
450
400
350

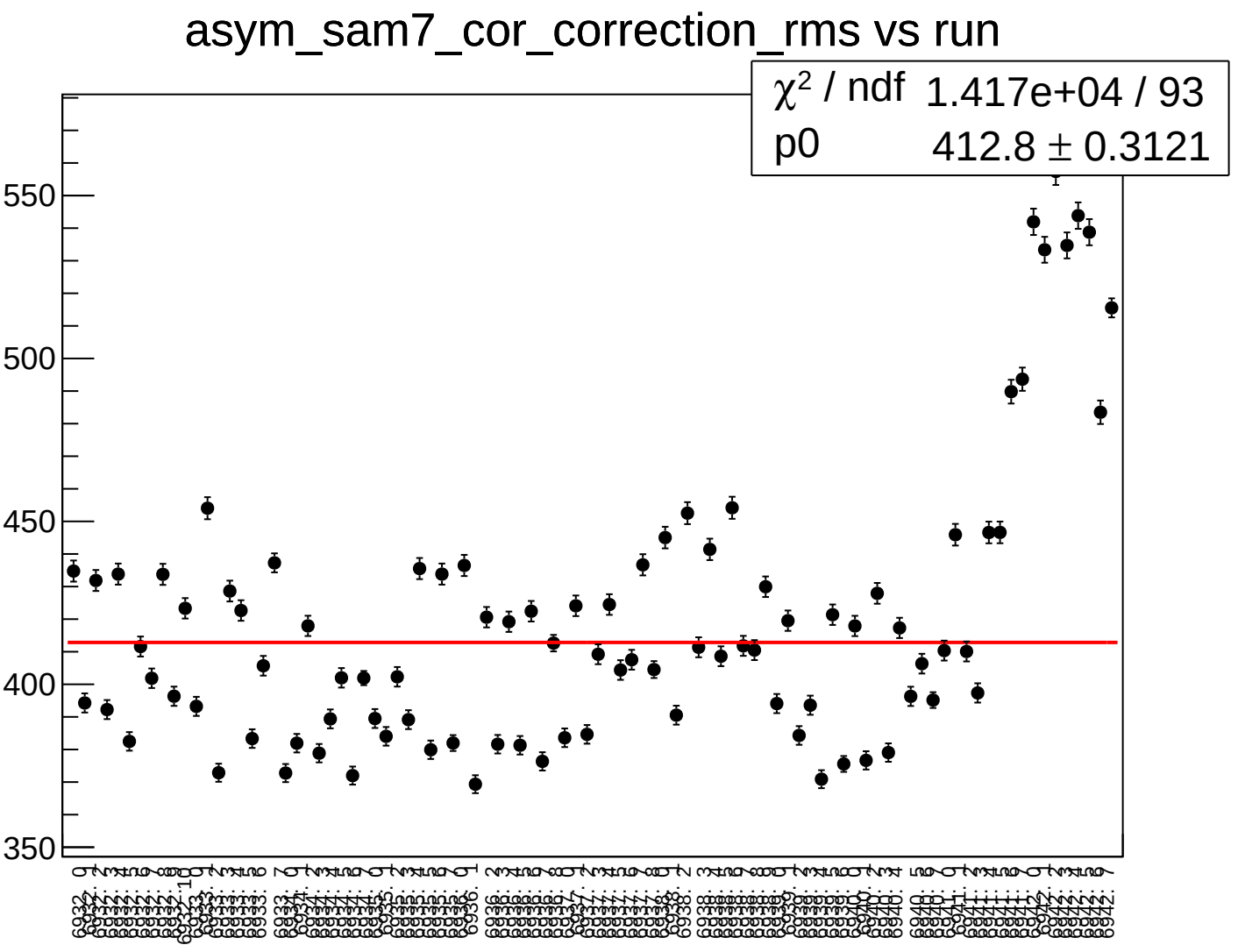

cor_asym_sam7_mean vs run
χ² / ndf 97.75 / 93
p0 −95.37 ± 63.78
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 1049
Std Dev 0
3
2
1
0
−1
−2

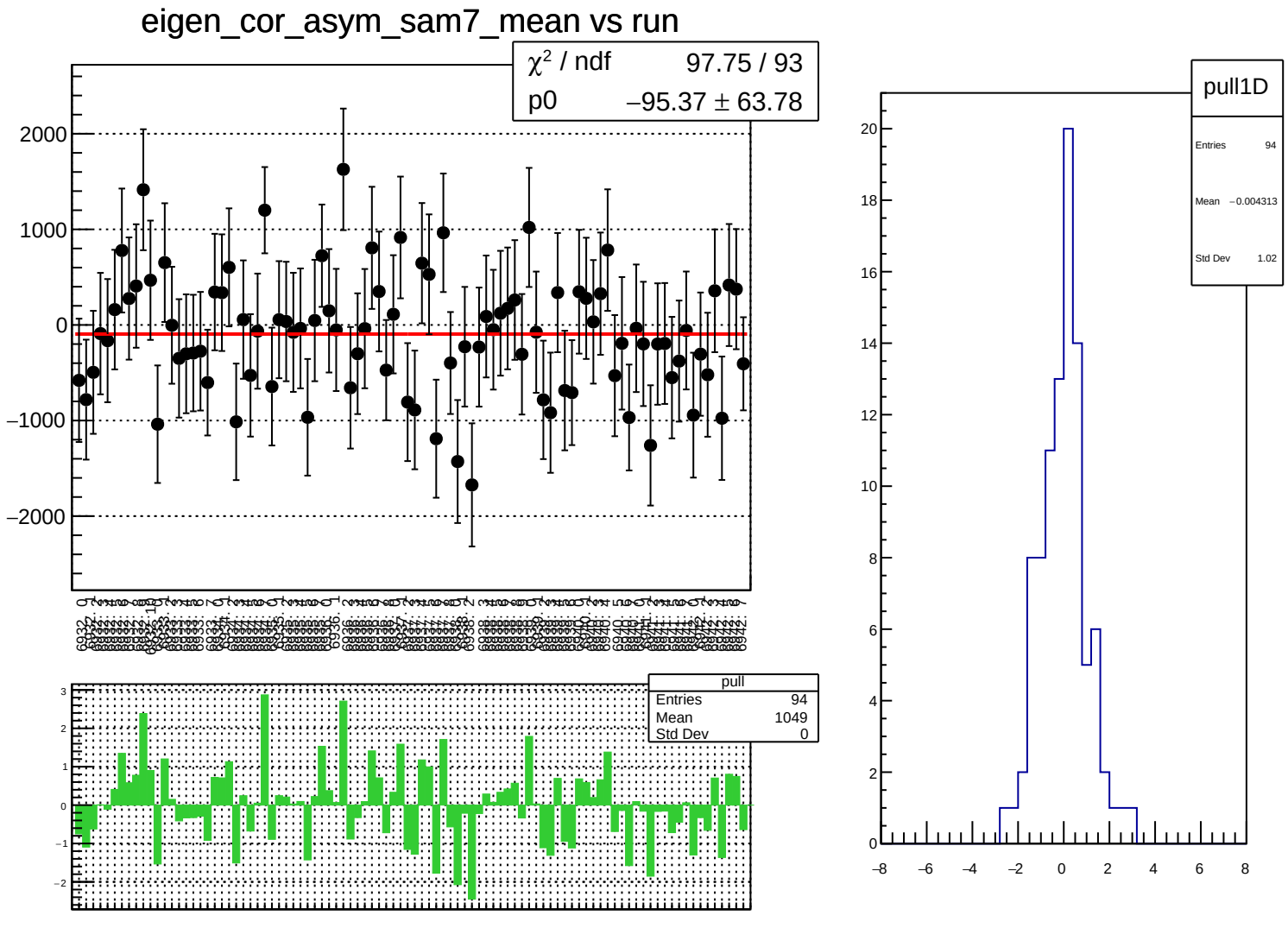

pull1D
Entries 94
Mean −0.004313
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

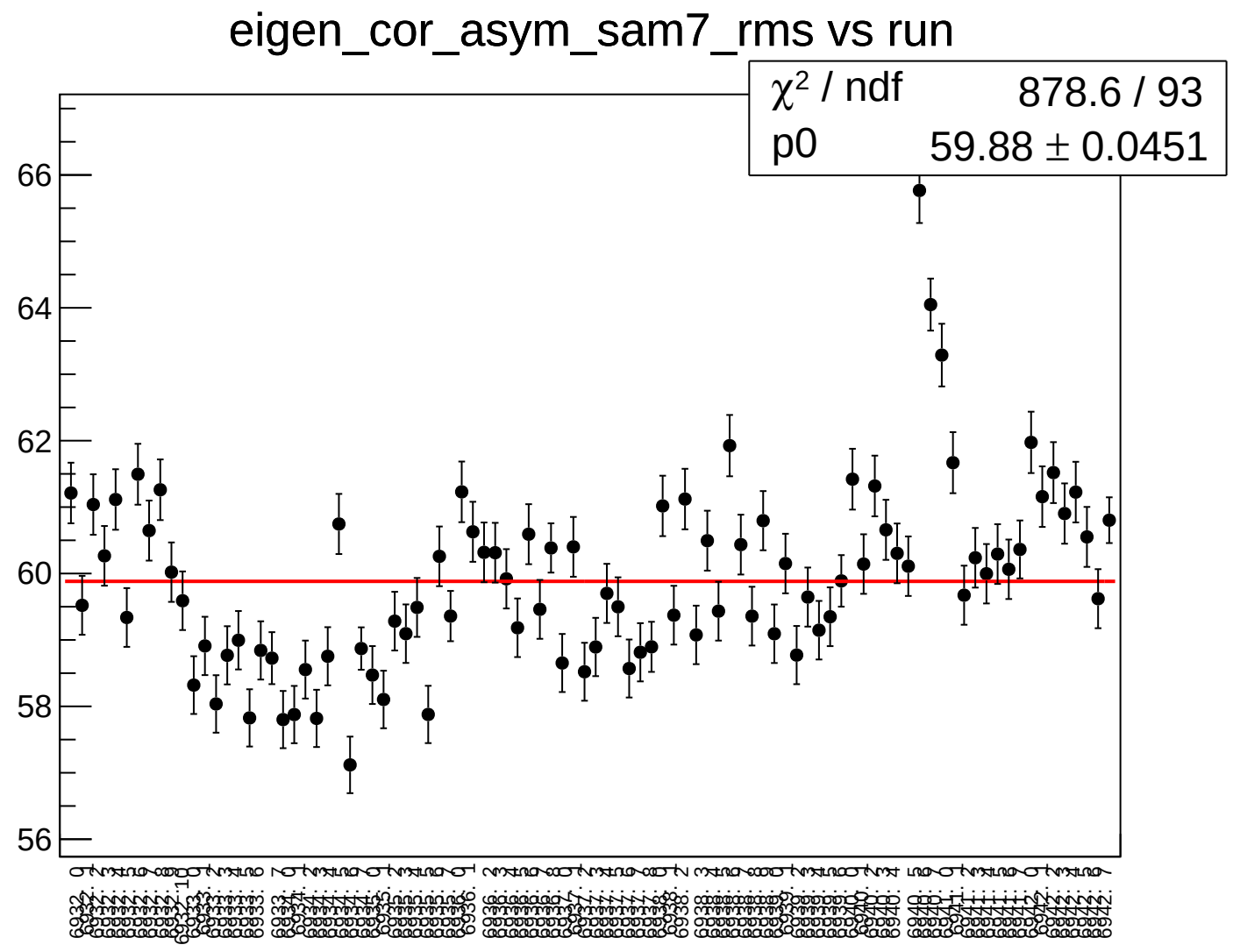

cor_asym_sam7_rms vs run
χ² / ndf 878.6 / 93
p0 59.88 ± 0.0451
66
64
62
60
58
56

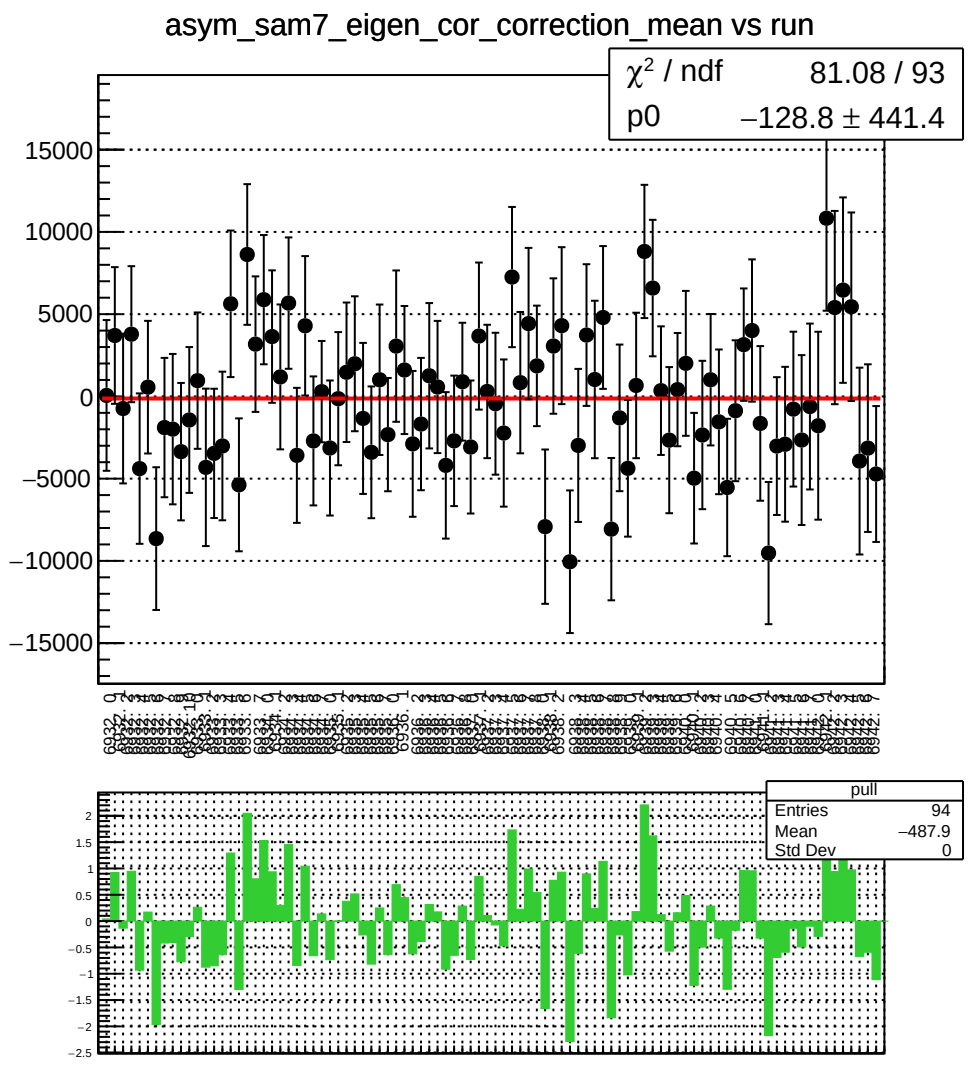

asym_sam7_cor_correction_mean vs run
χ² / ndf 81.08 / 93
p0 −128.8 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −487.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

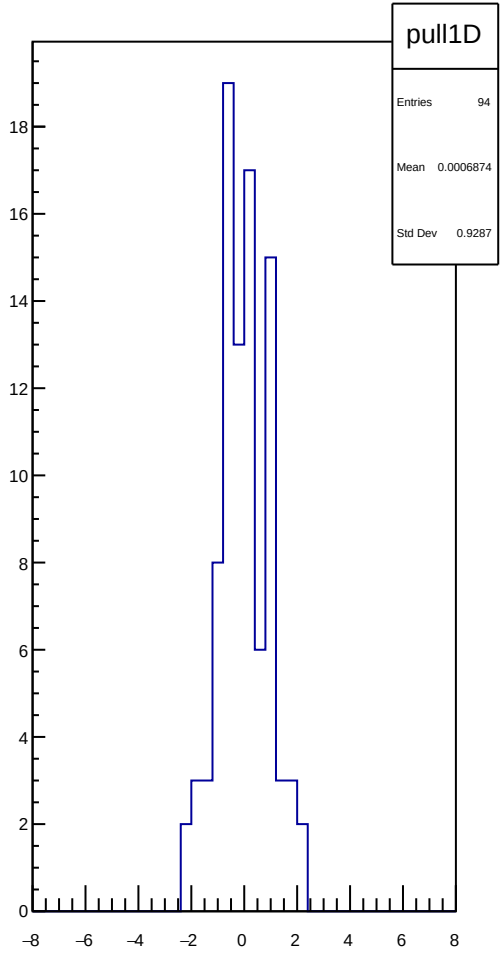

pull1D
Entries 94
Mean 0.0006874
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

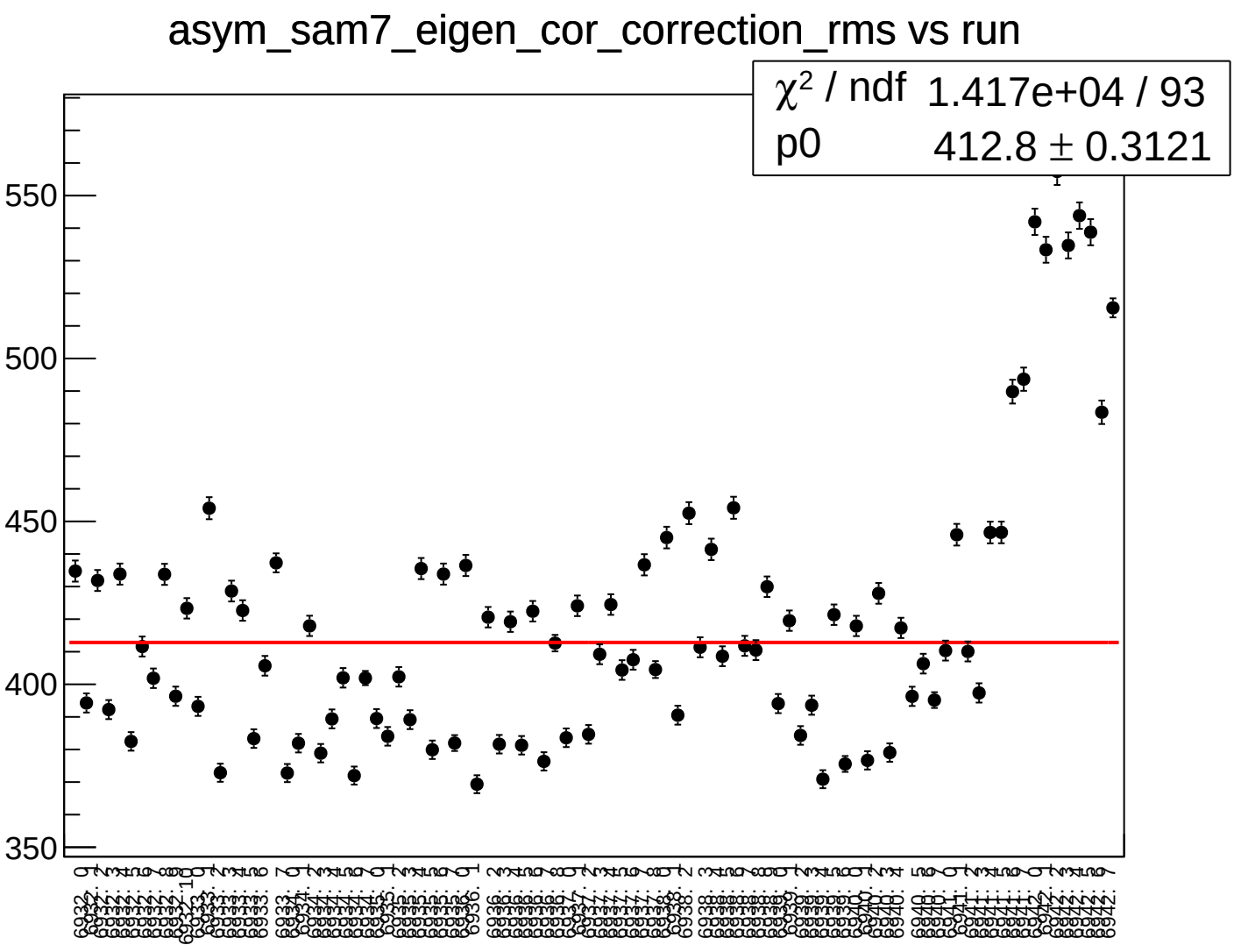

asym_sam7_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 412.8 ± 0.3121
550
500
450
400
350

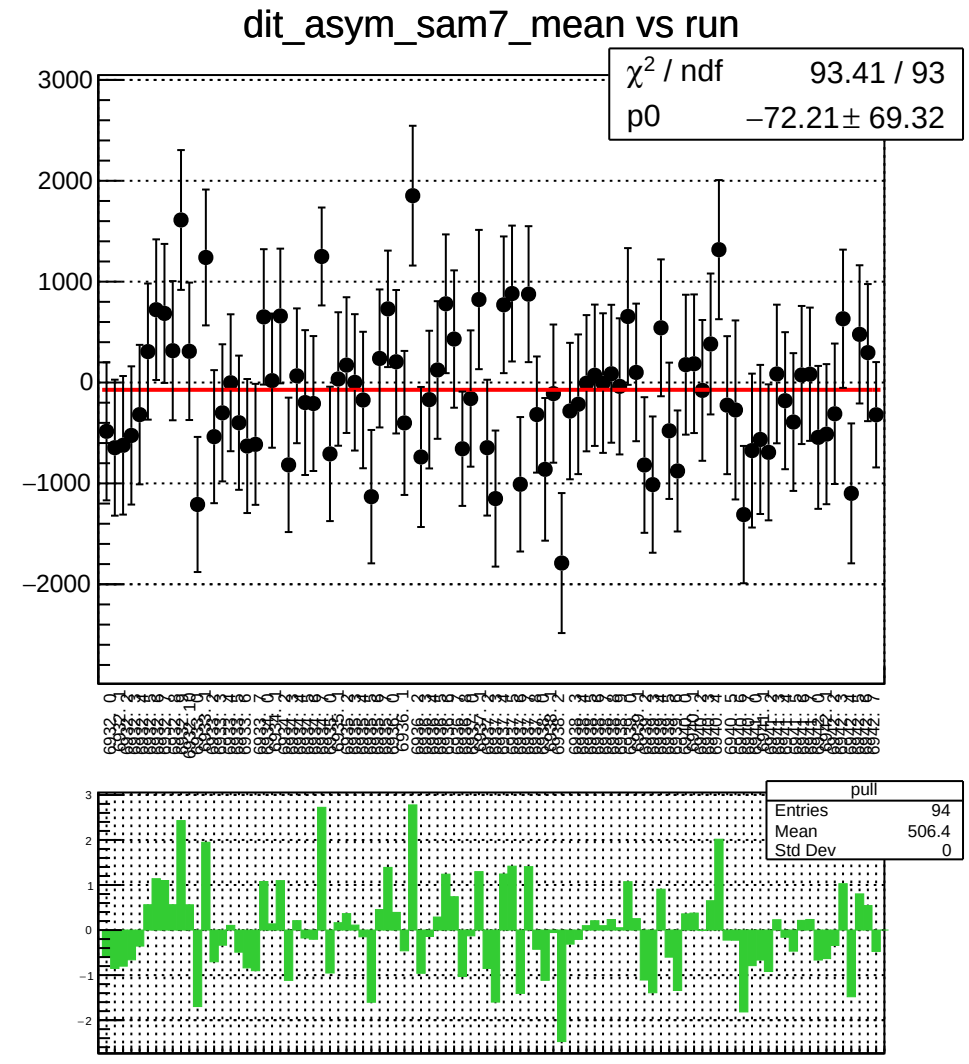

eigen_cor_asym_sam7_mean vs run
χ² / ndf 97.75 / 93
p0 −95.37 ± 63.78
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 1049
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004313
Std Dev 1.02
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

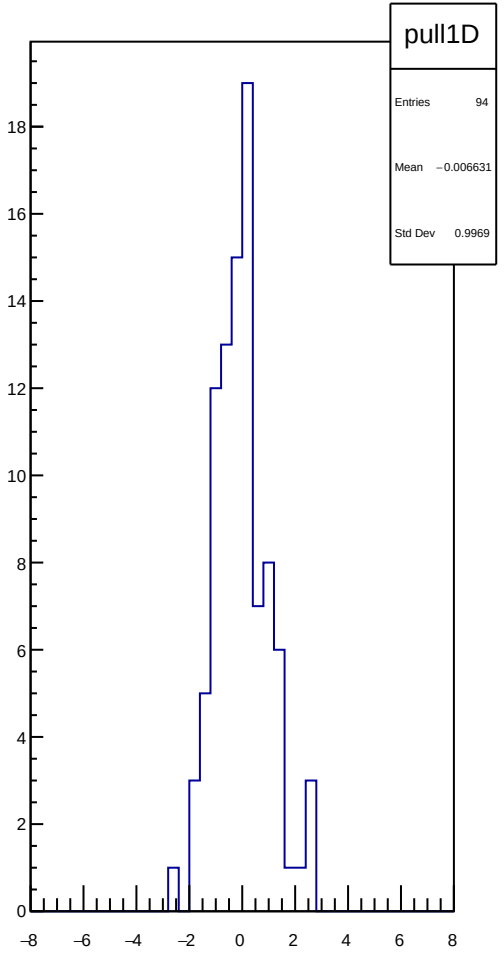

eigen_cor_asym_sam7_rms vs run
χ² / ndf 878.6 / 93
p0 59.88 ± 0.0451
66
64
62
60
58
56

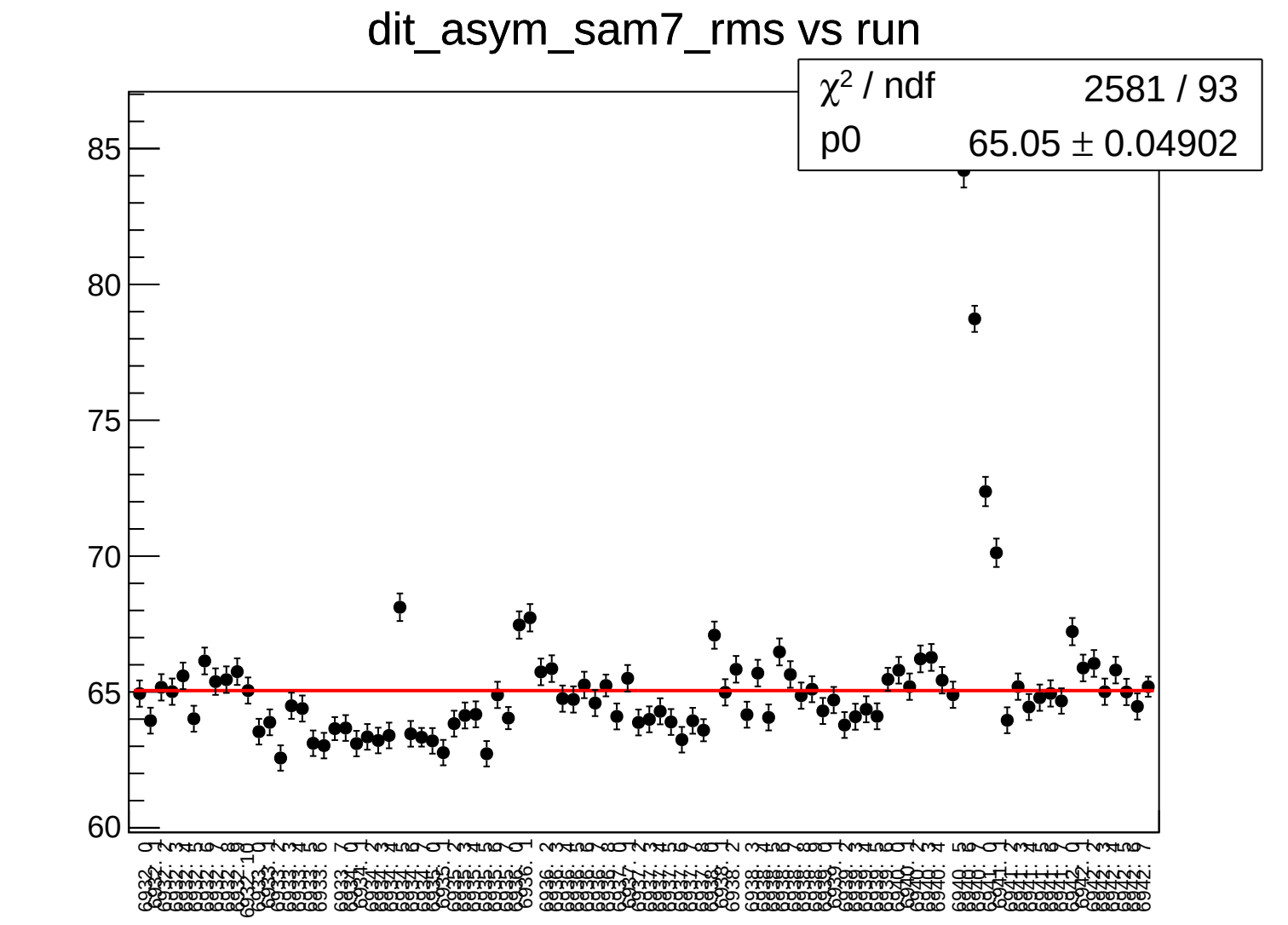

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 81.08 / 93
p0 −128.8 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −487.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

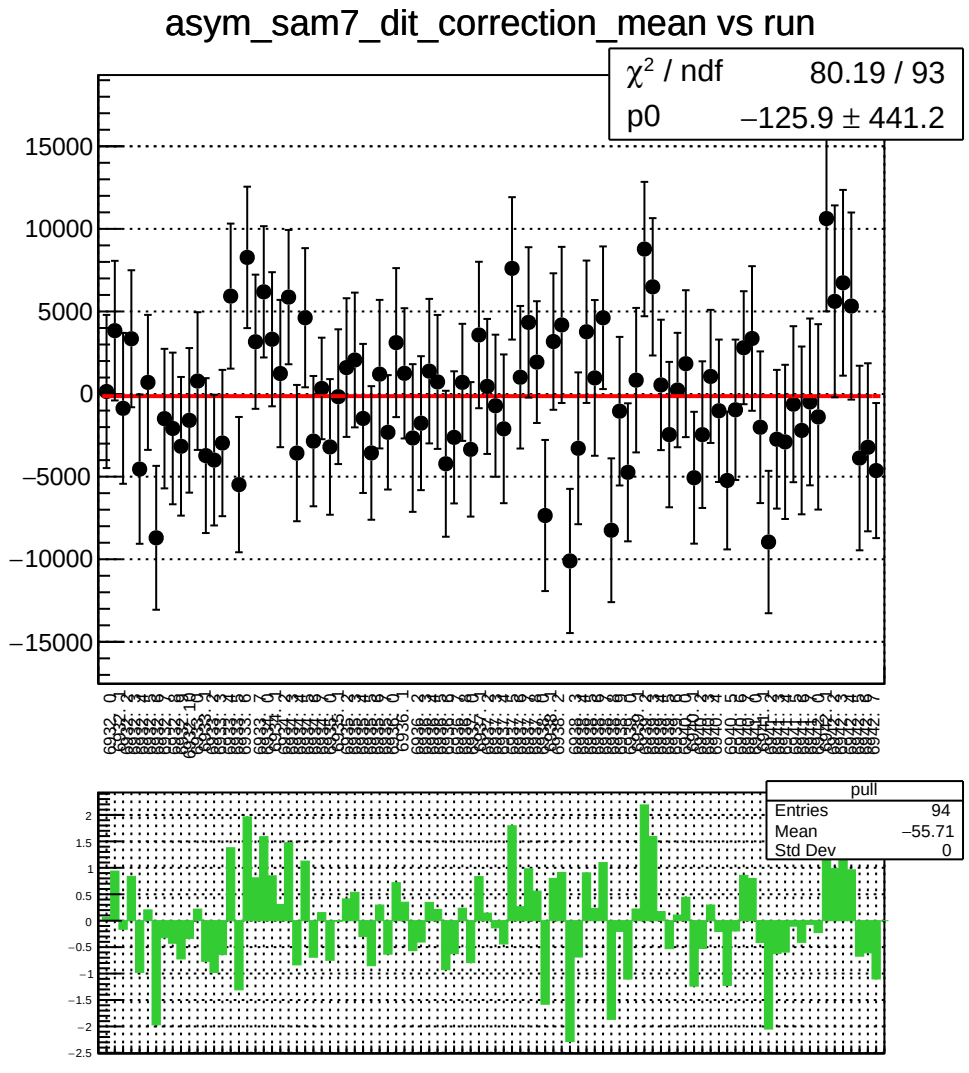

pull1D
Entries 94
Mean 0.0006874
Std Dev 0.9287
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

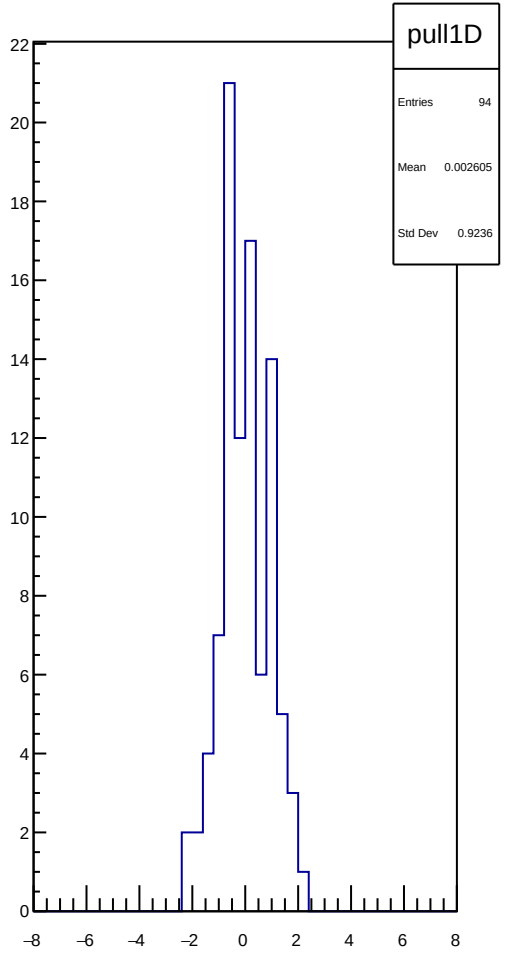

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 412.8 ± 0.3121
550
500
450
400
350

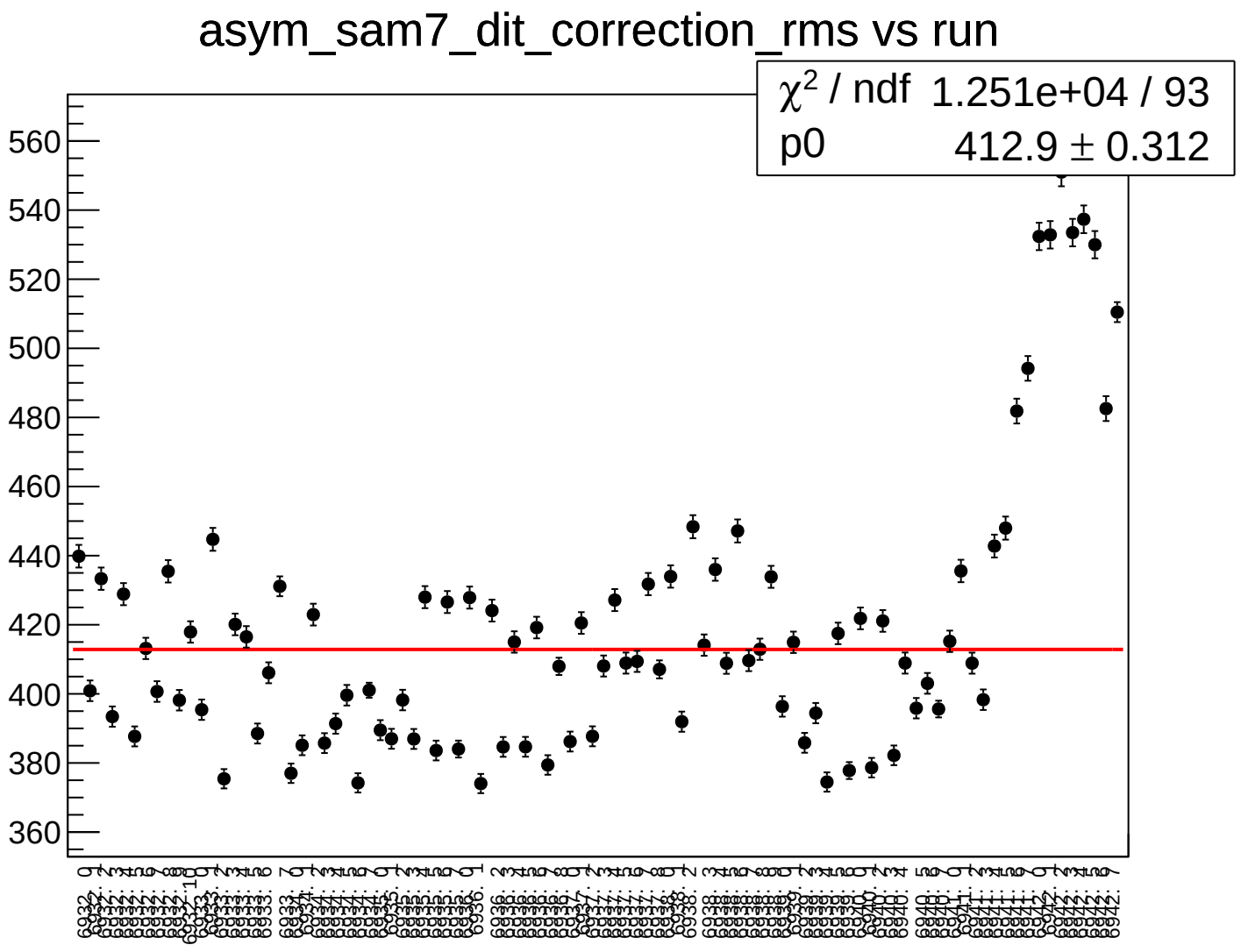

dit_asym_sam7_mean vs run
χ² / ndf 93.41 / 93
p0 −72.21 ± 69.32
pull
Entries 94
Mean 506.4
Std Dev 0

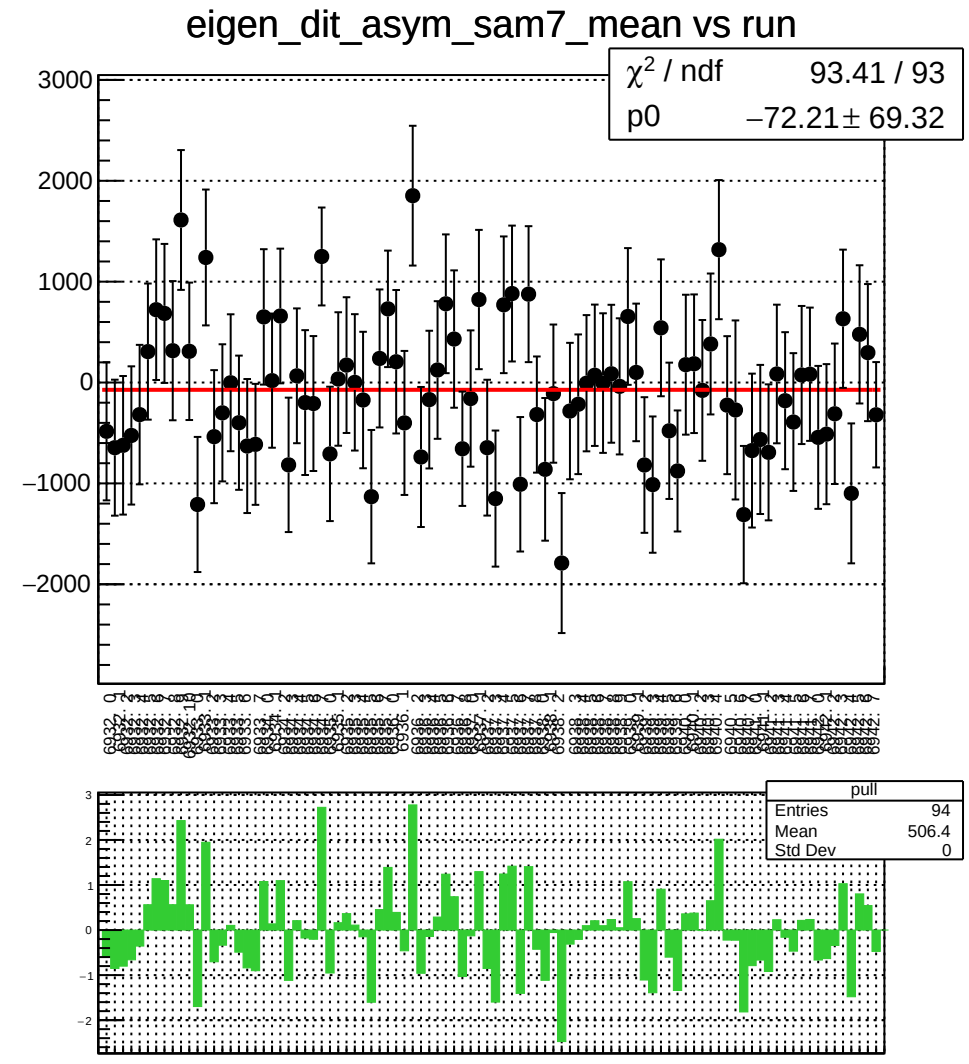

pull1D
Entries 94
Mean −0.006631
Std Dev 0.9969

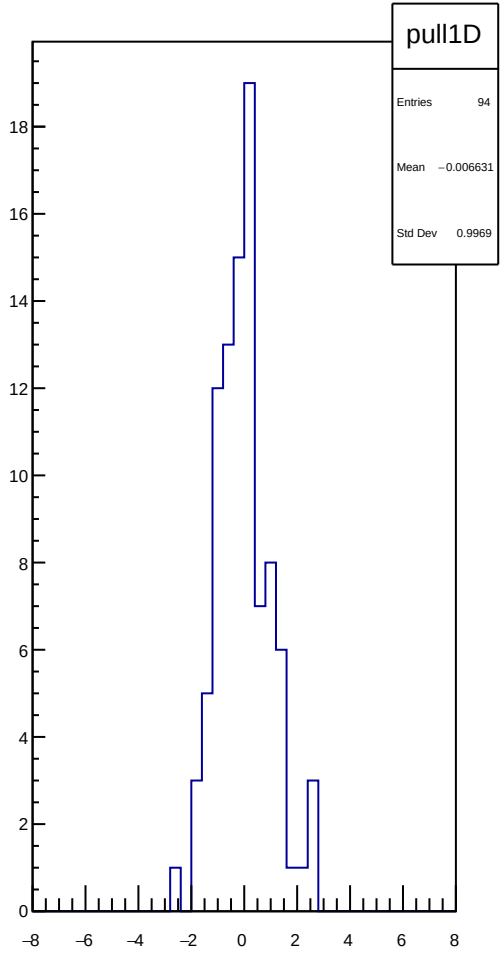

dit_asym_sam7_rms vs run
χ² / ndf 2581 / 93
p0 65.05 ± 0.04902
85
80
75
70
65
60

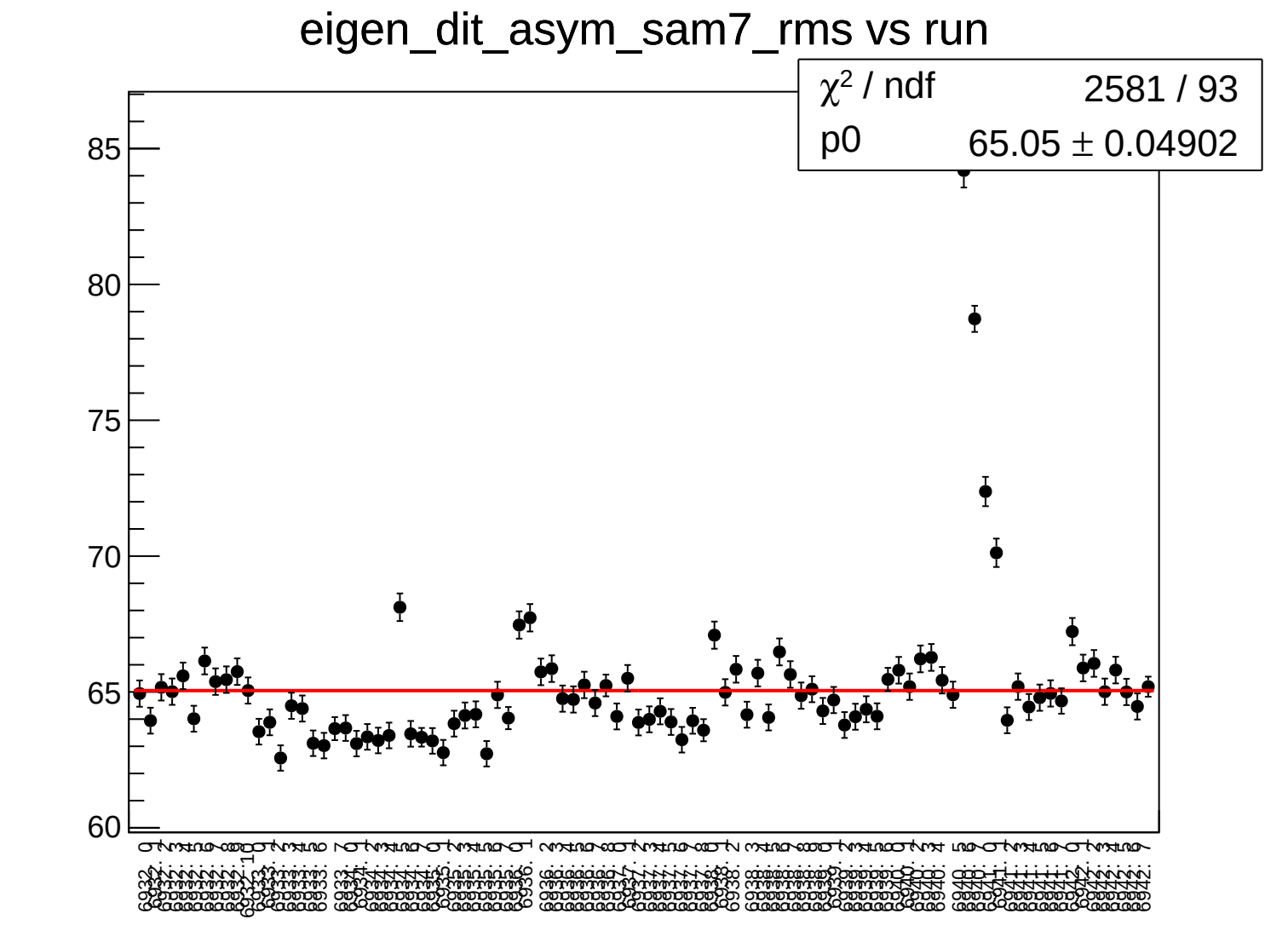

asym_sam7_dit_correction_mean vs run
χ² / ndf 80.19 / 93
p0 −125.9 ± 441.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −55.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

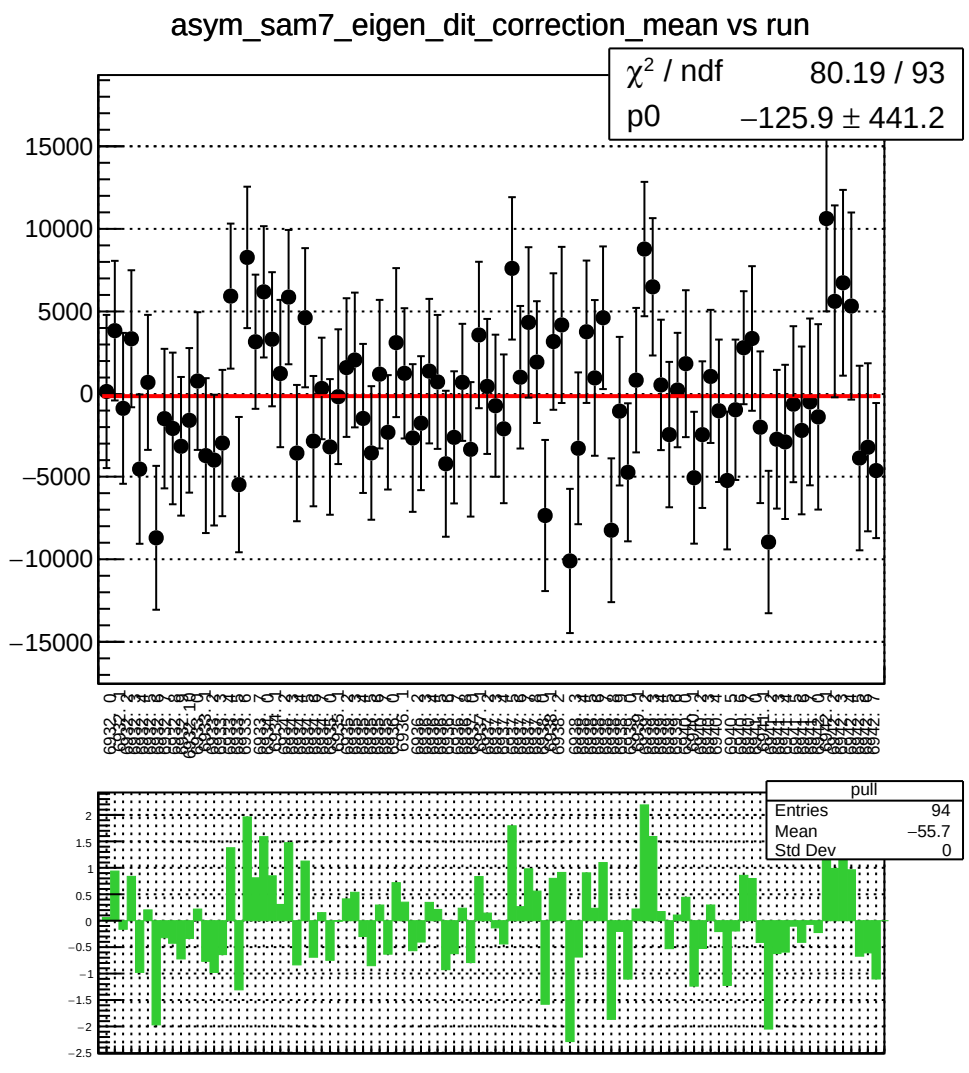

pull1D
Entries 94
Mean 0.002605
Std Dev 0.9236
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

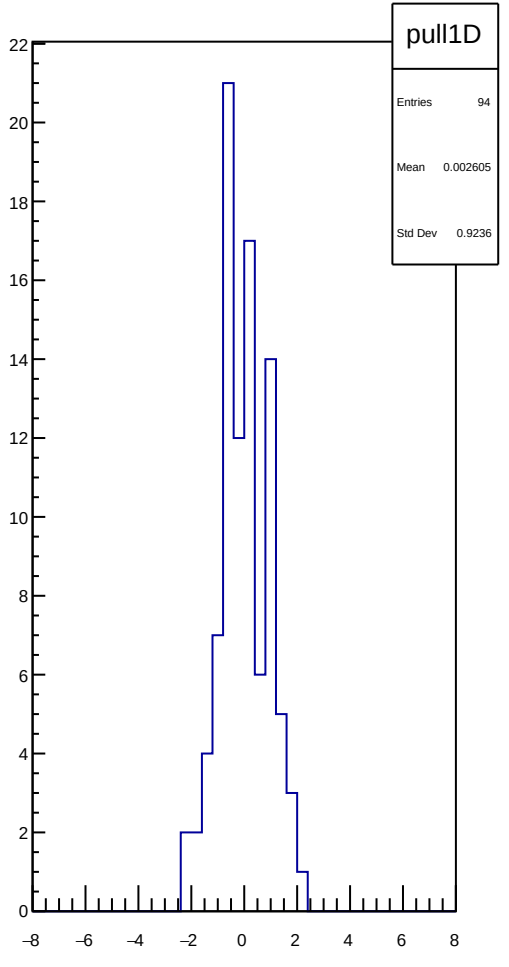

asym_sam7_dit_correction_rms vs run
χ² / ndf 1.251e+04 / 93
p0 412.9 ± 0.312
560
540
520
500
480
460
440
420
400
380
360

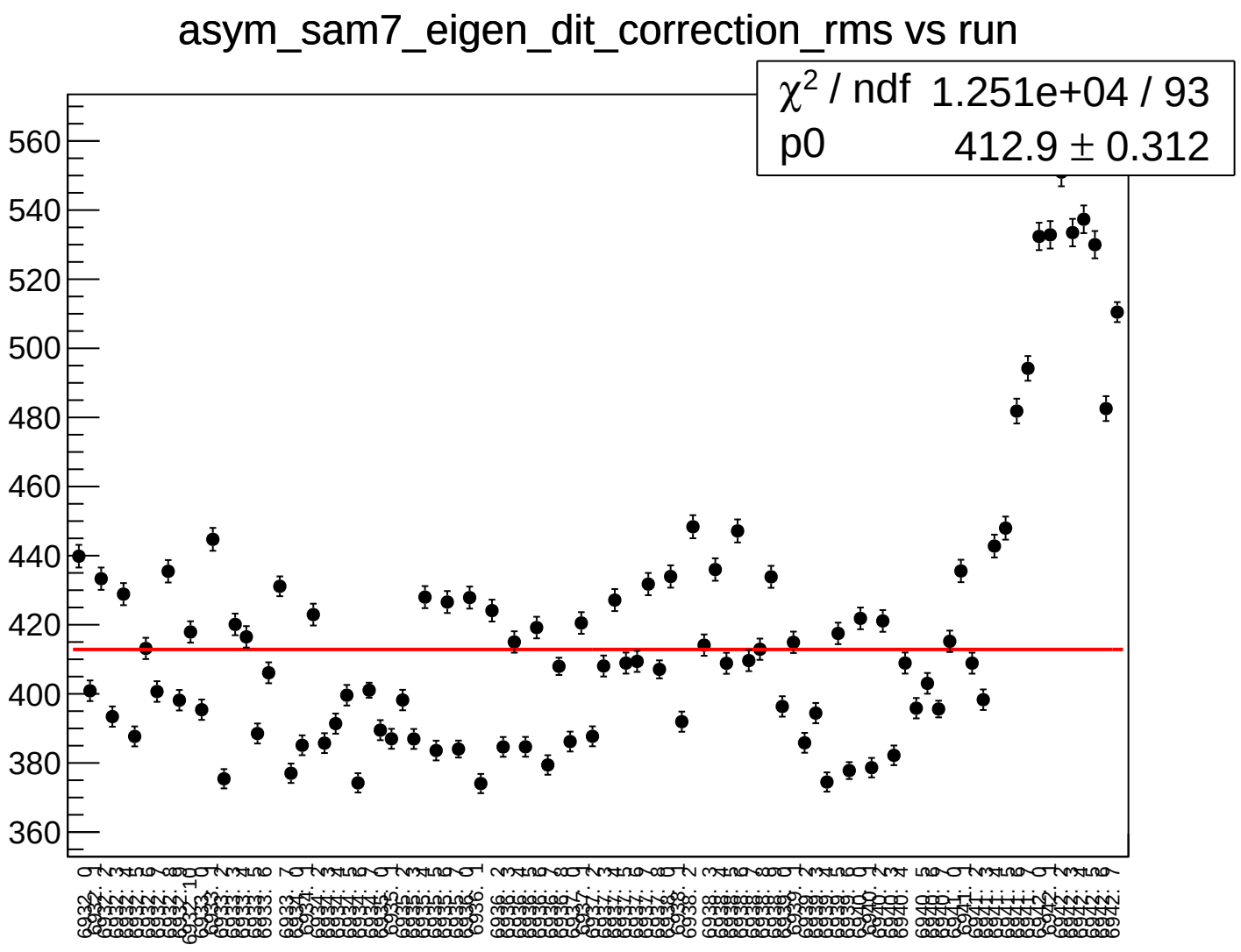

eigen_dit_asym_sam7_mean vs run
χ² / ndf 93.41 / 93
p0 −72.21± 69.32
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 506.4
Std Dev 0
3
2
1
0
−1
−2

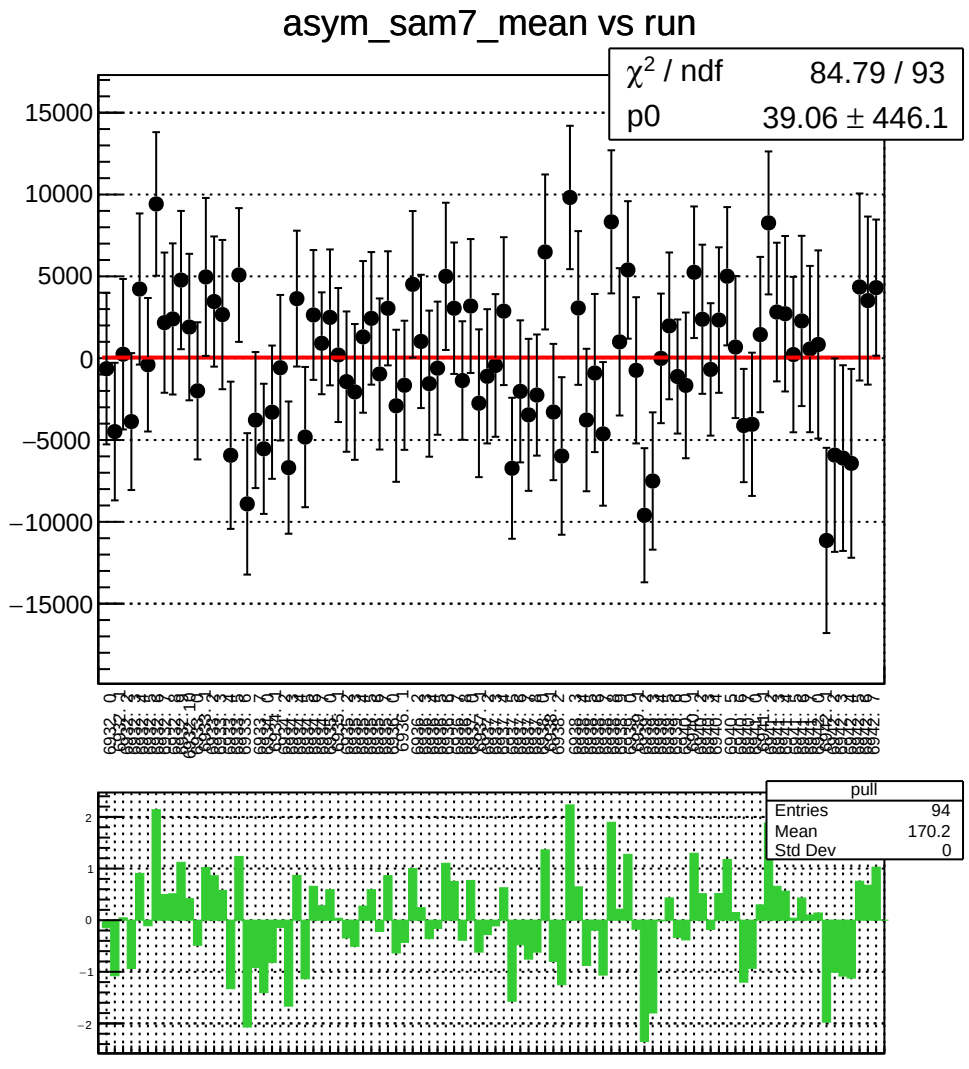

pull1D
Entries 94
Mean −0.006631
Std Dev 0.9969
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

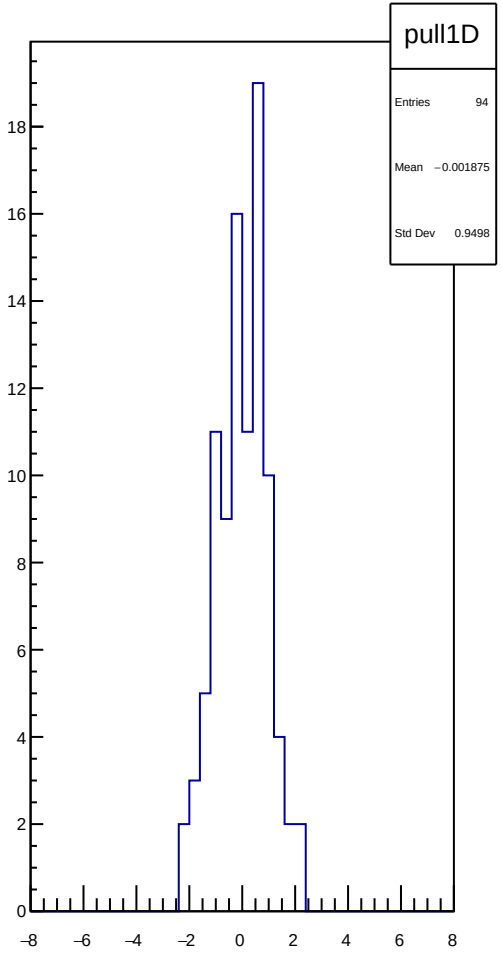

eigen_dit_asym_sam7_rms vs run
χ² / ndf 2581 / 93
p0 65.05 ± 0.04902
85
80
75
70
65
60

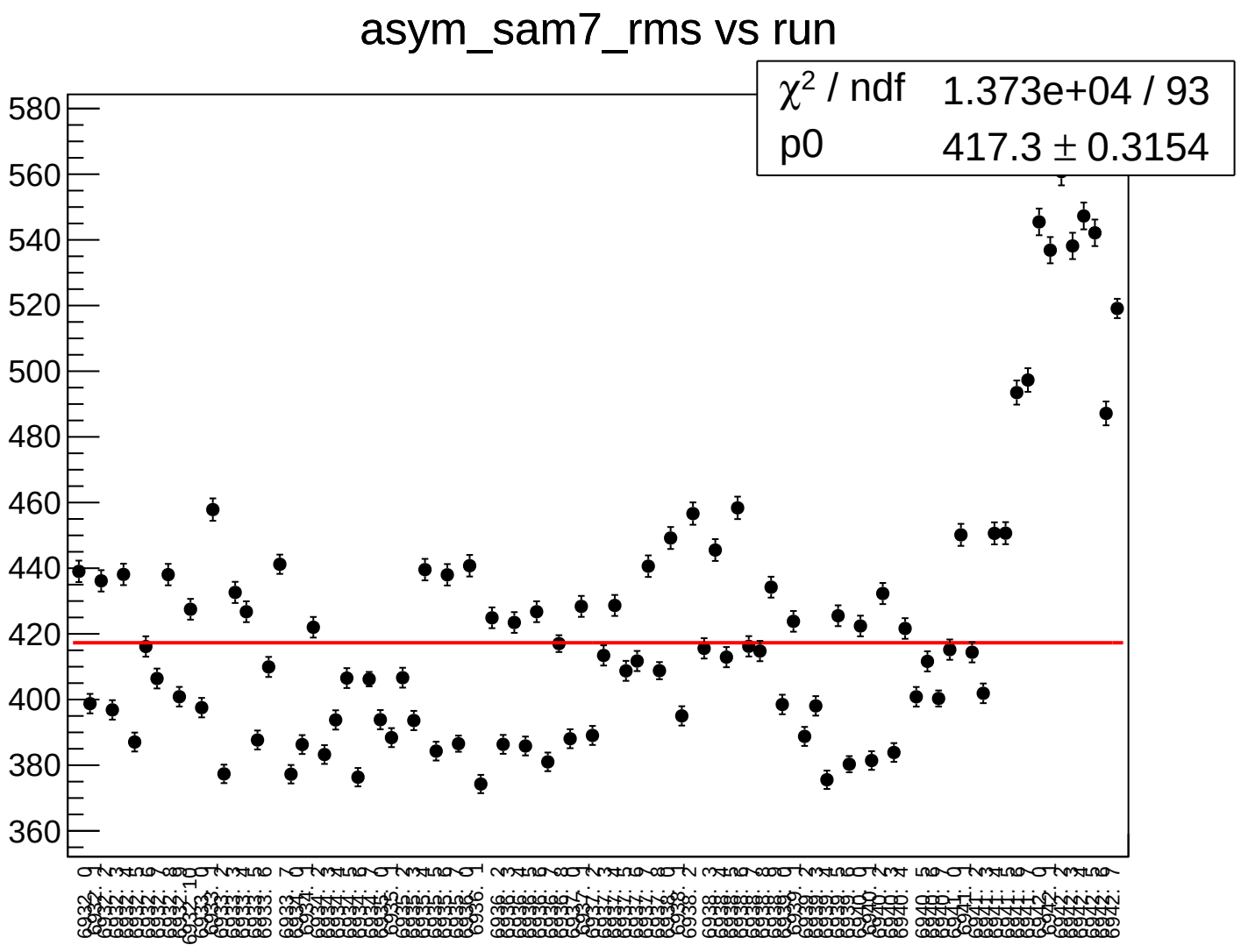

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 80.19 / 93
p0 −125.9 ± 441.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −55.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

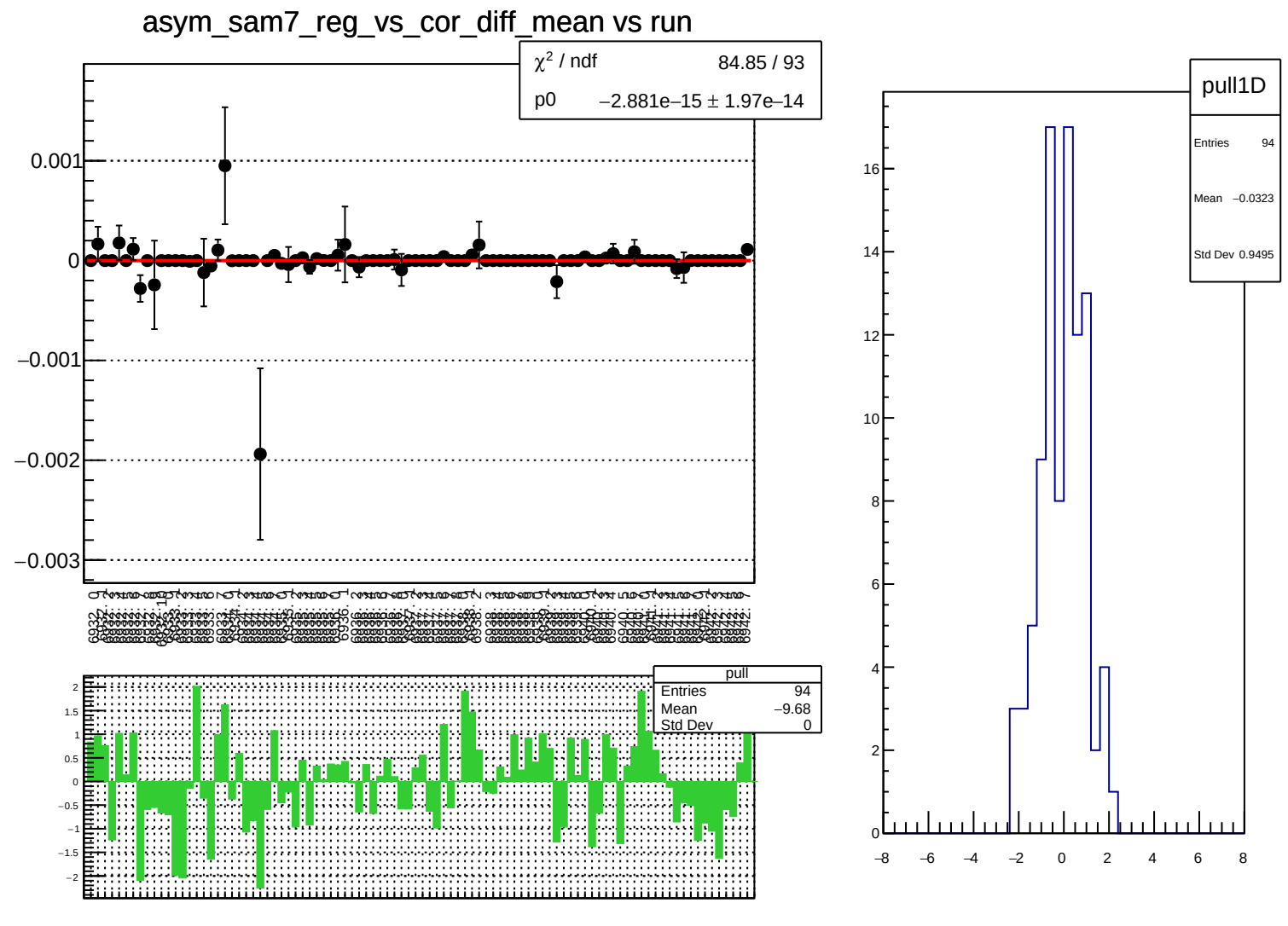

pull1D
Entries 94
Mean 0.002605
Std Dev 0.9236
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

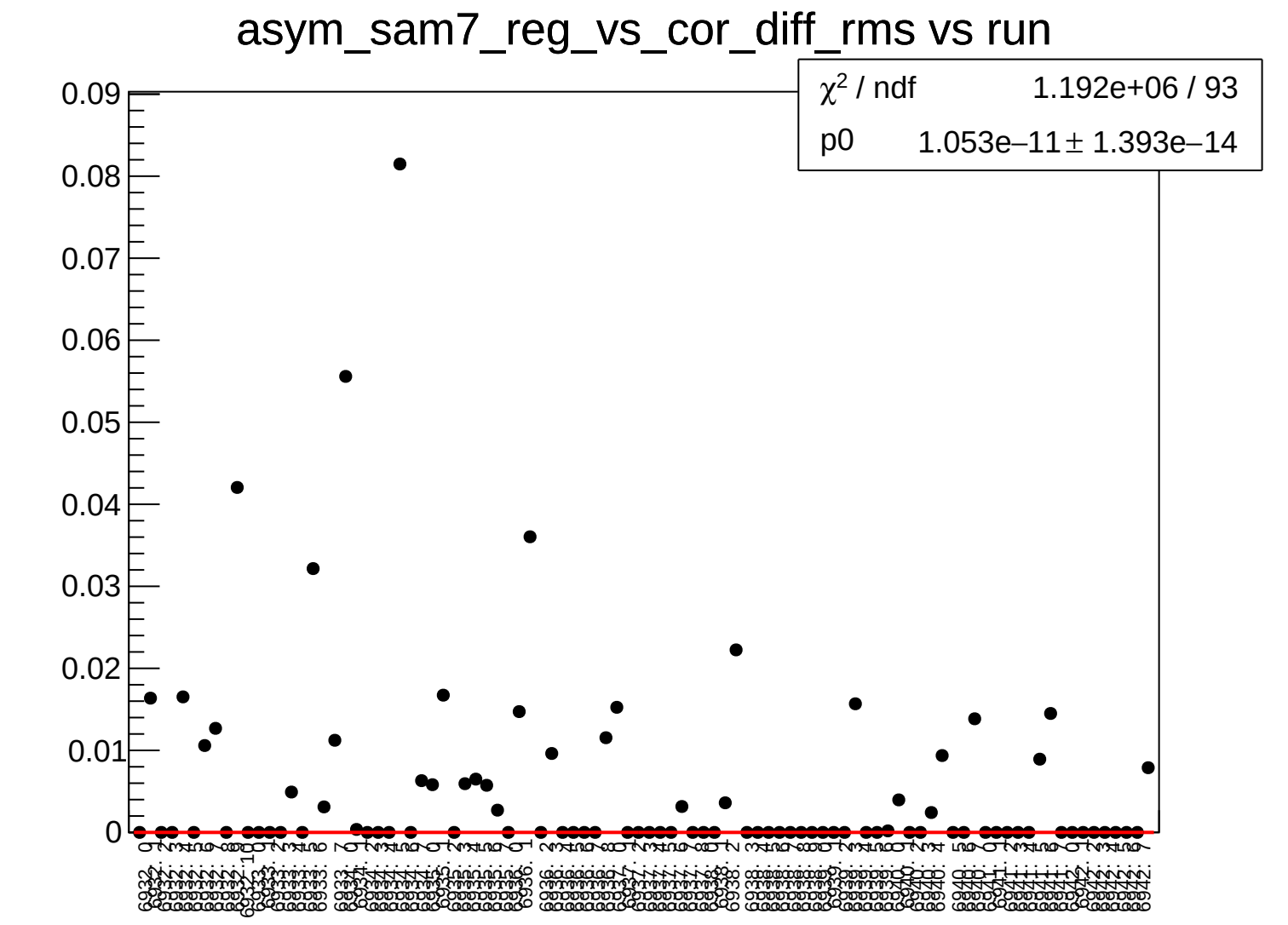

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 1.251e+04 / 93
p0 412.9 ± 0.312
560
540
520
500
480
460
440
420
400
380
360

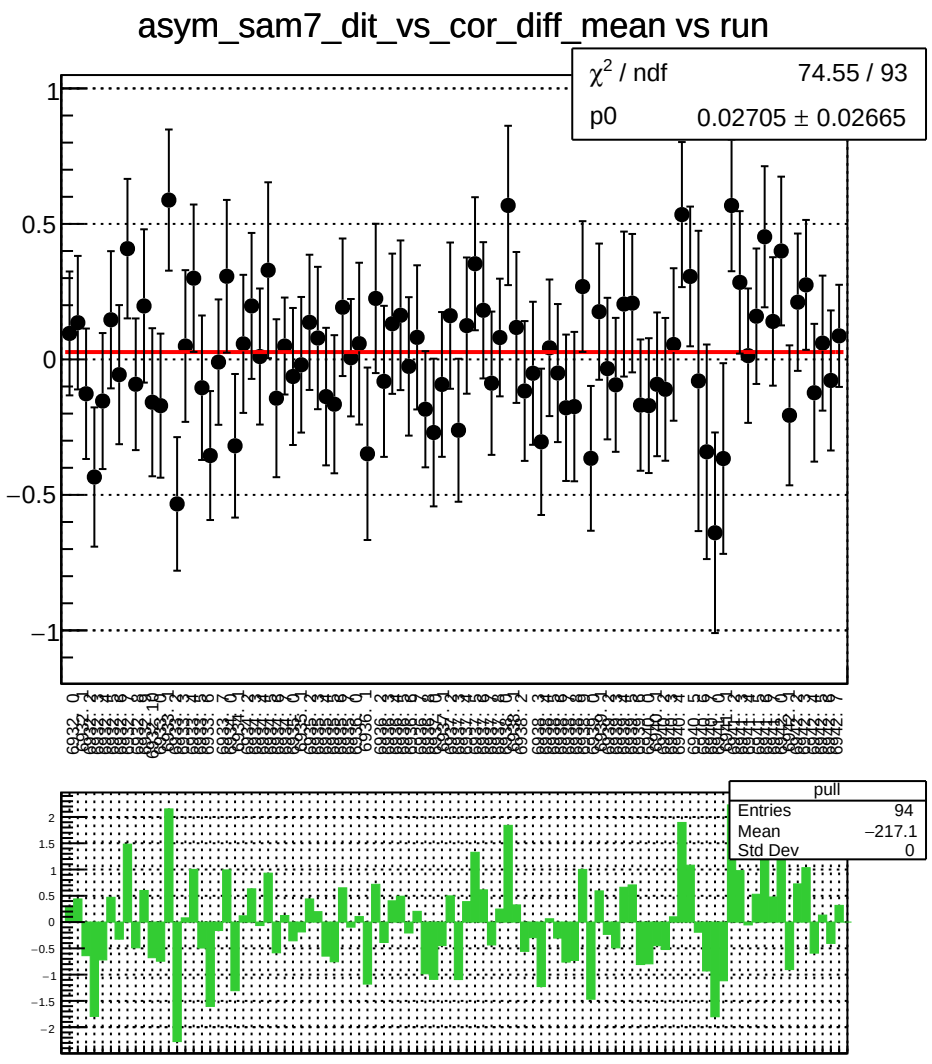

asym_sam7_mean vs run
χ² / ndf 84.79 / 93
p0 39.06 ± 446.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 170.2
Std Dev 0
2
1
0
−1
−2

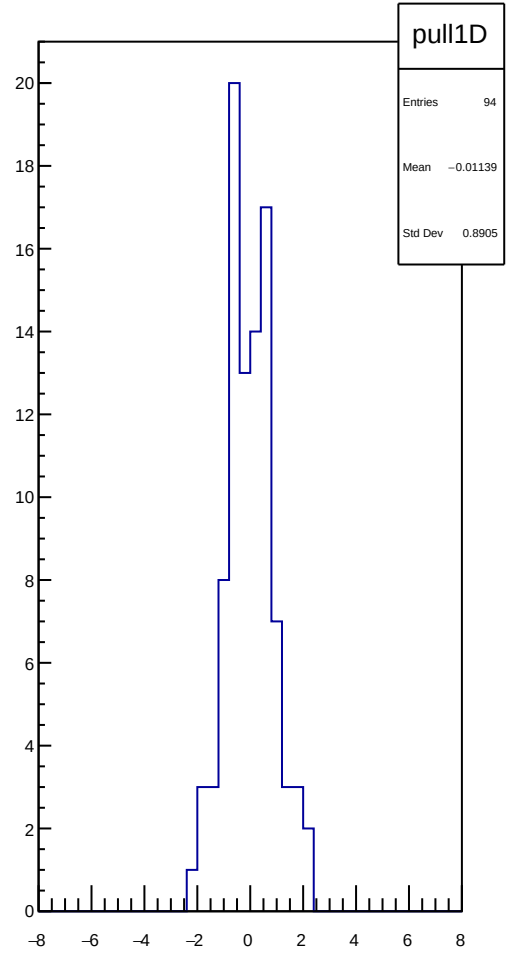

pull1D
Entries 94
Mean −0.001875
Std Dev 0.9498
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

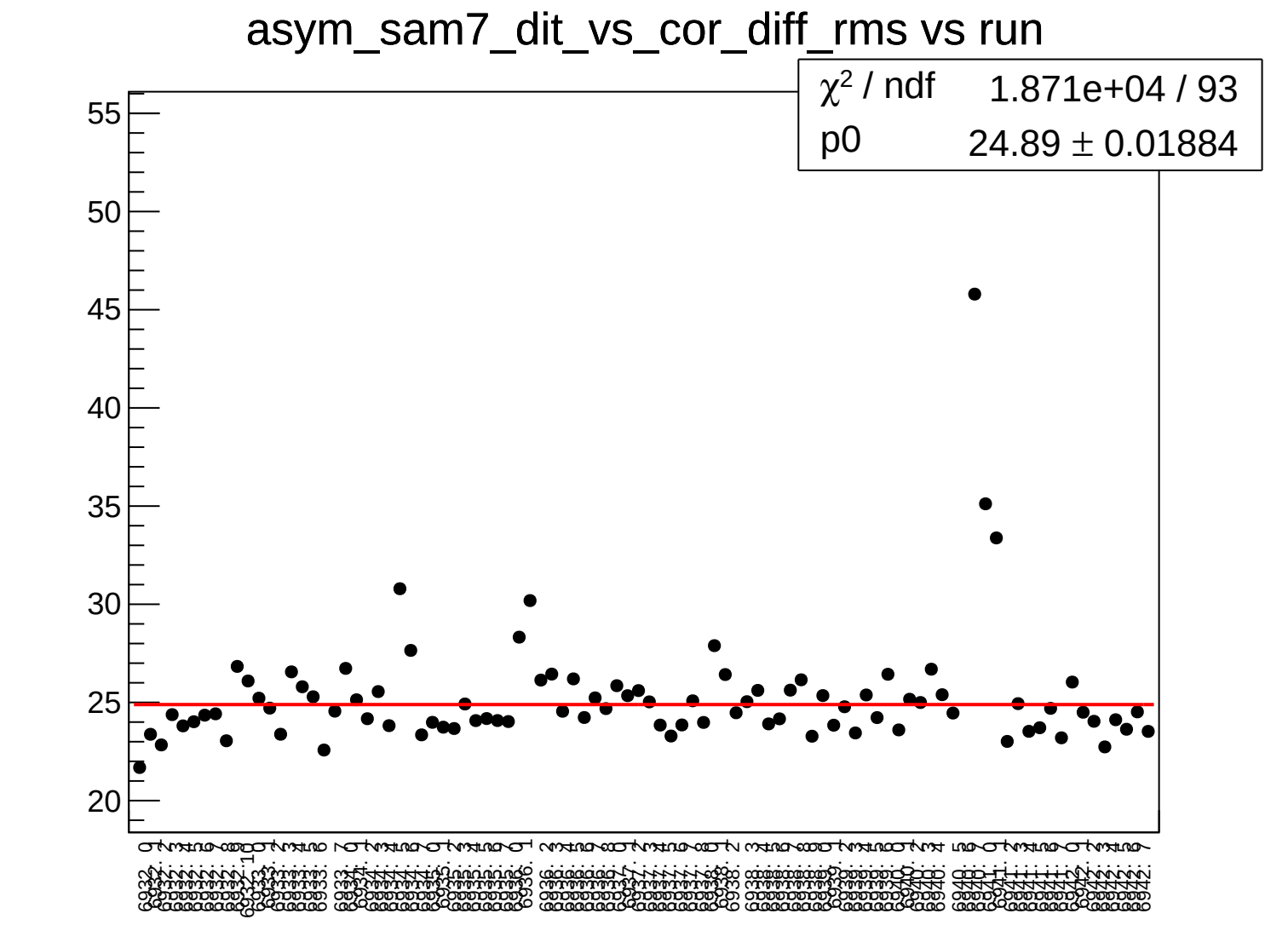

asym_sam7_rms vs run
χ² / ndf 1.373e+04 / 93
p0 417.3 ± 0.3154
580
560
540
520
500
480
460
440
420
400
380
360

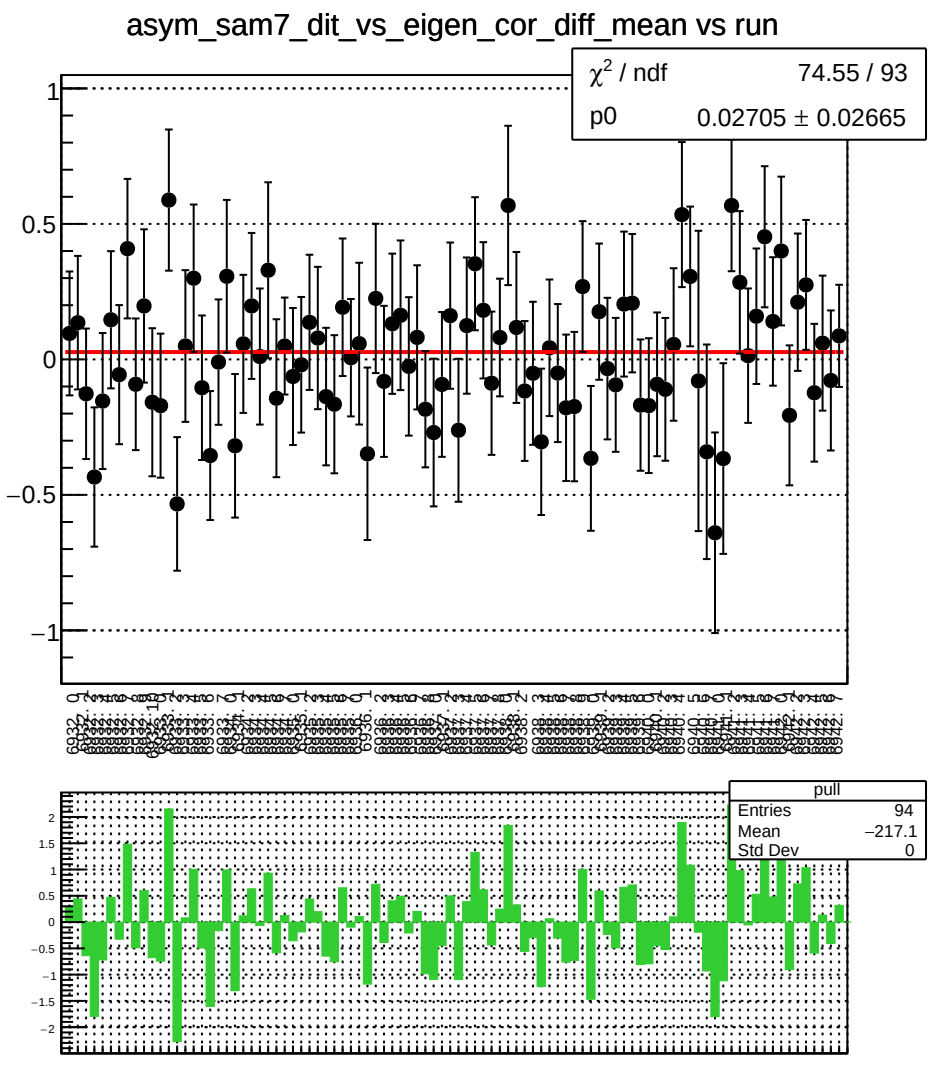

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 84.85 / 93
p0 −2.881e−15 ± 1.97e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean −9.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.0323
Std Dev 0.9495
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

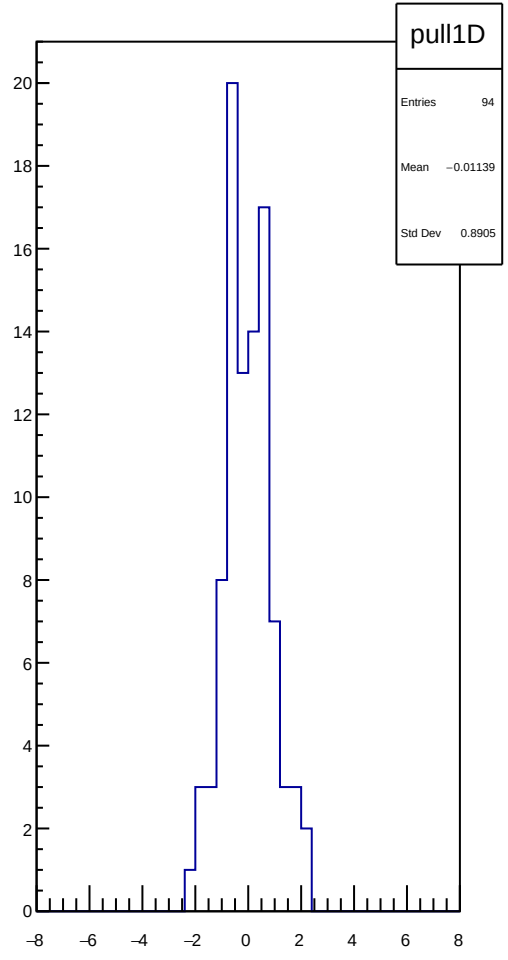

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.192e+06 / 93
p0 1.053e−11 ± 1.393e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

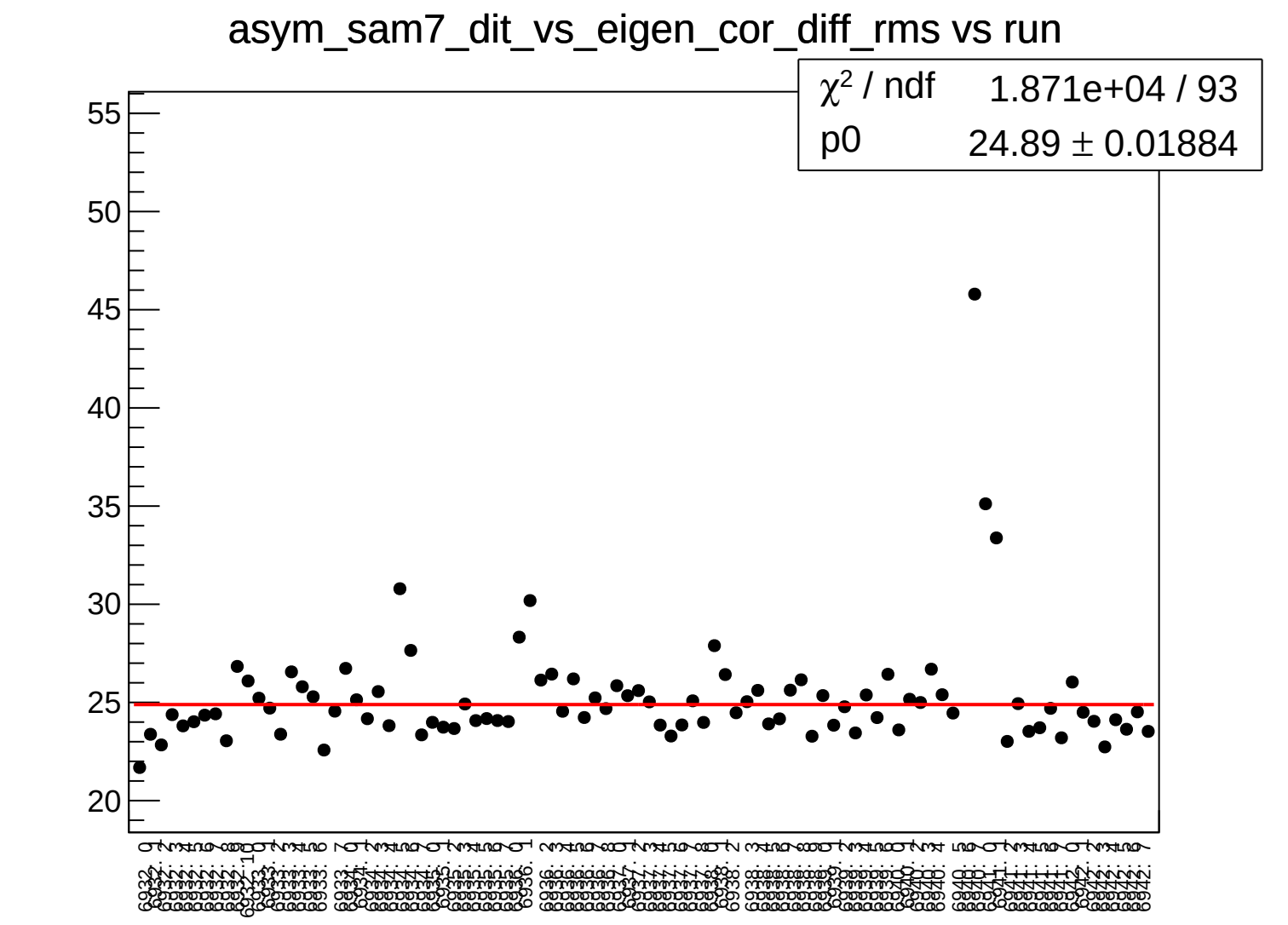

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 74.55 / 93
p0 0.02705 ± 0.02665
pull
Entries 94
Mean −217.1
Std Dev 0

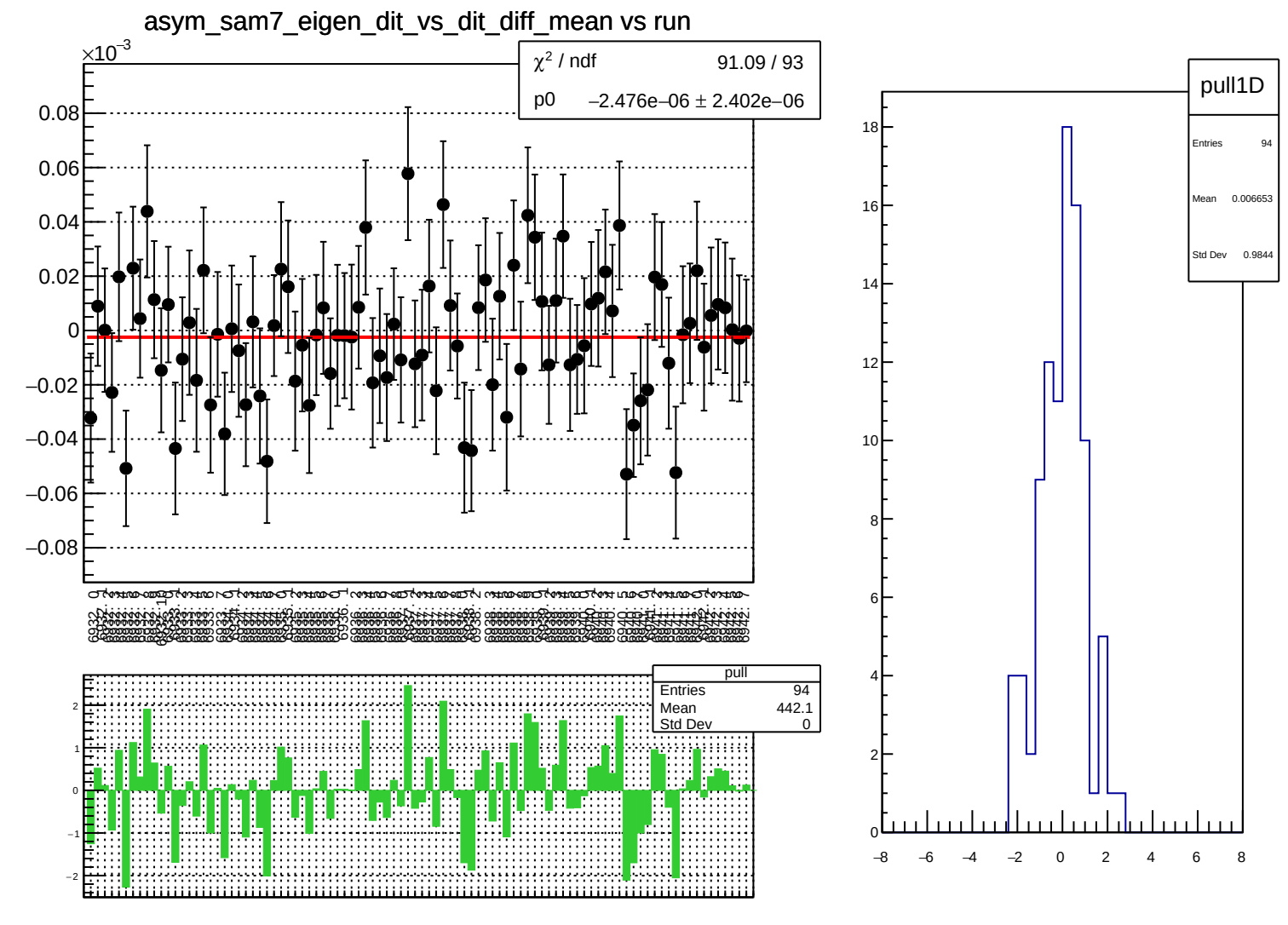

pull1D
Entries 94
Mean −0.01139
Std Dev 0.8905

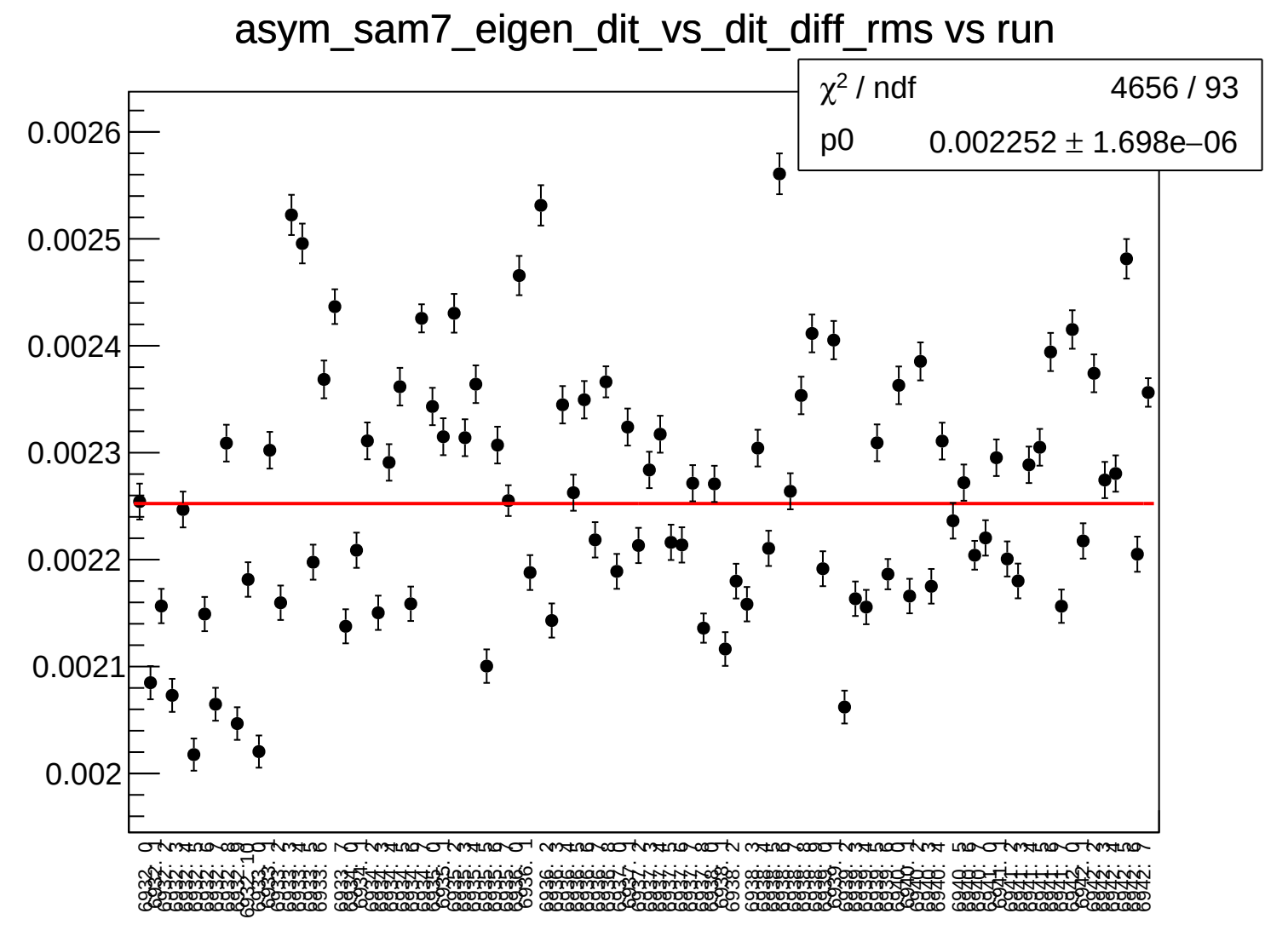

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.871e+04 / 93
p0 24.89 ± 0.01884
55
50
45
40
35
30
25
20

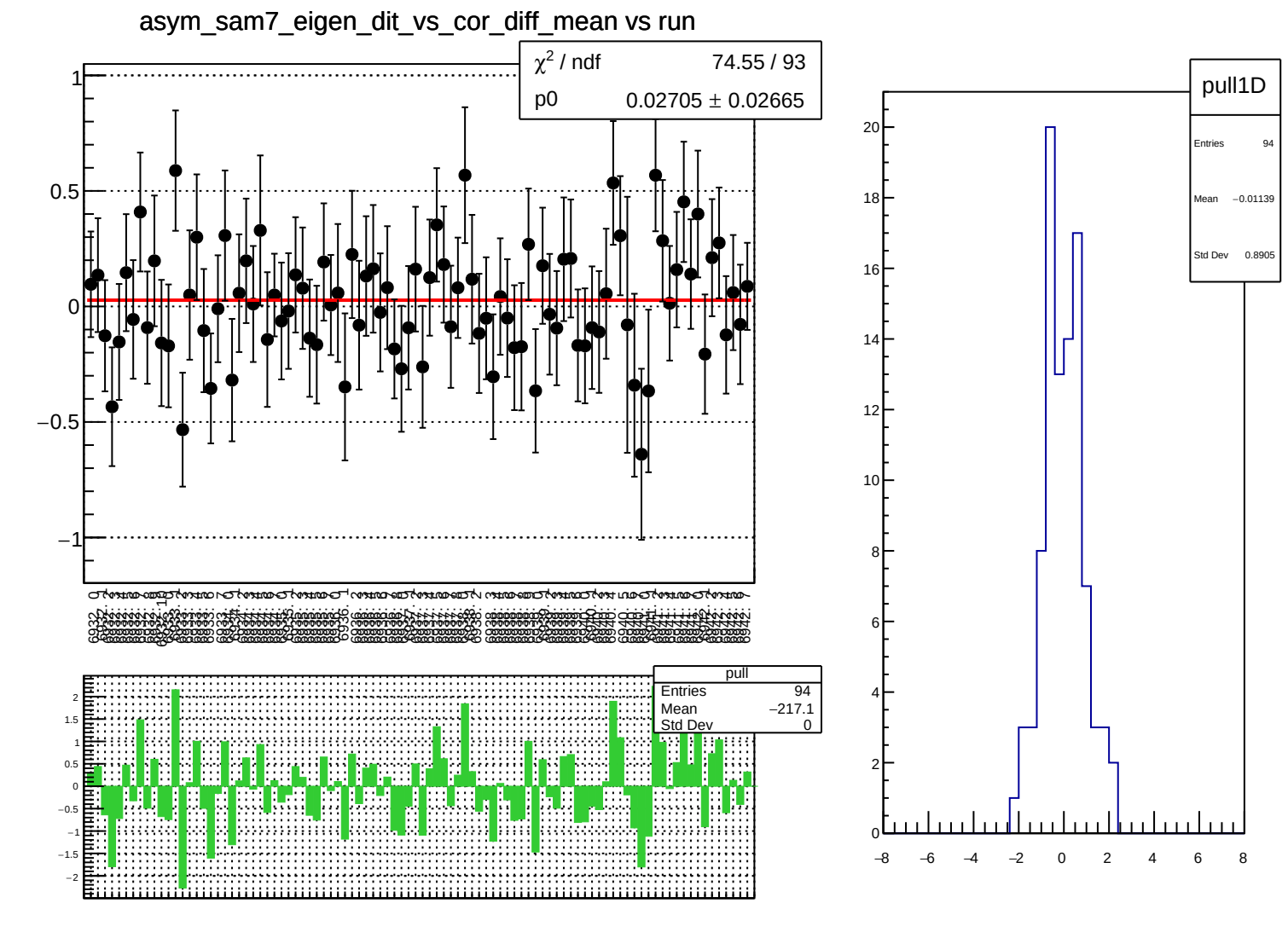

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.55 / 93
p0 0.02705 ± 0.02665
pull
Entries 94
Mean −217.1
Std Dev 0

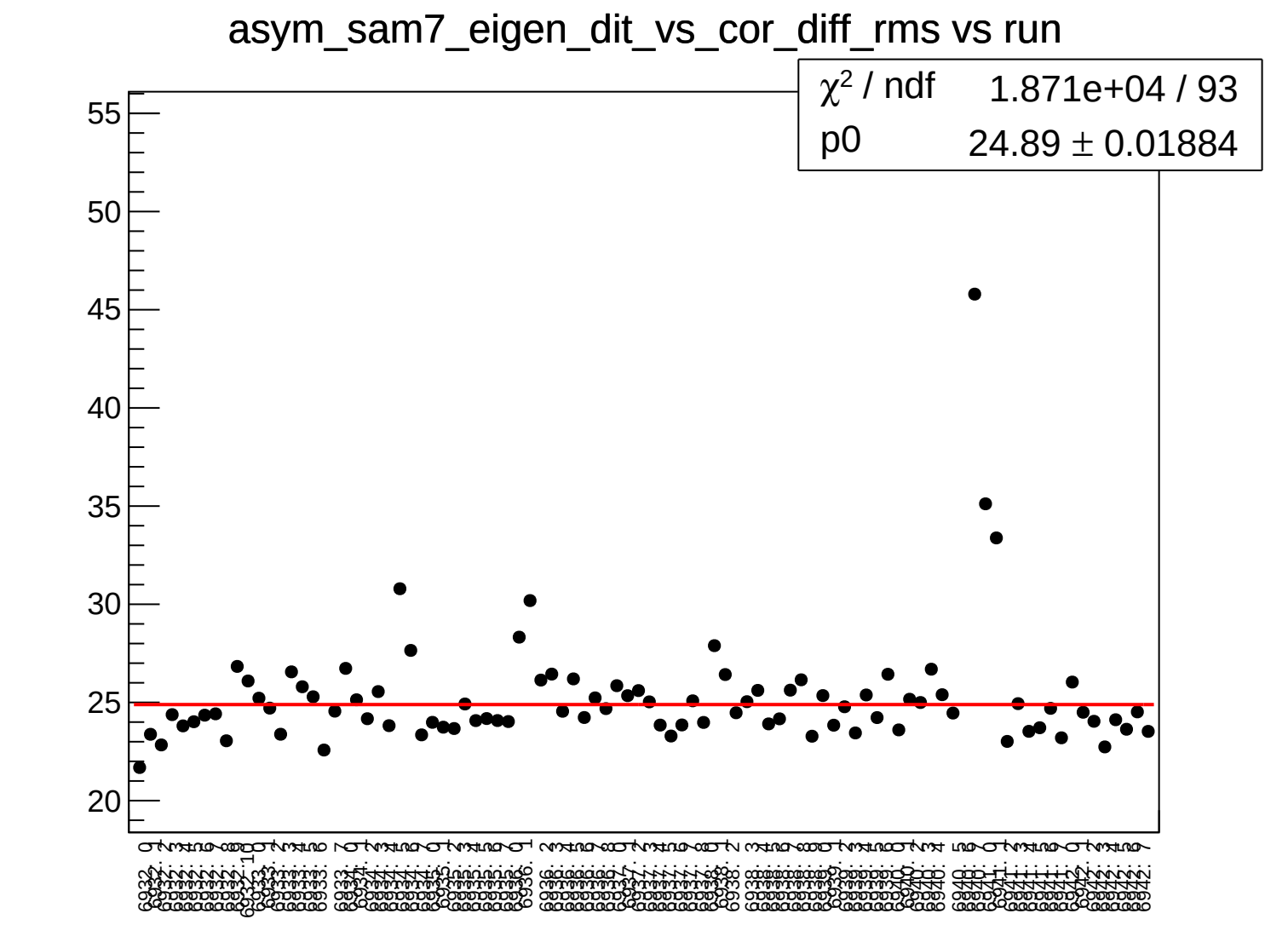

pull1D
Entries 94
Mean −0.01139
Std Dev 0.8905

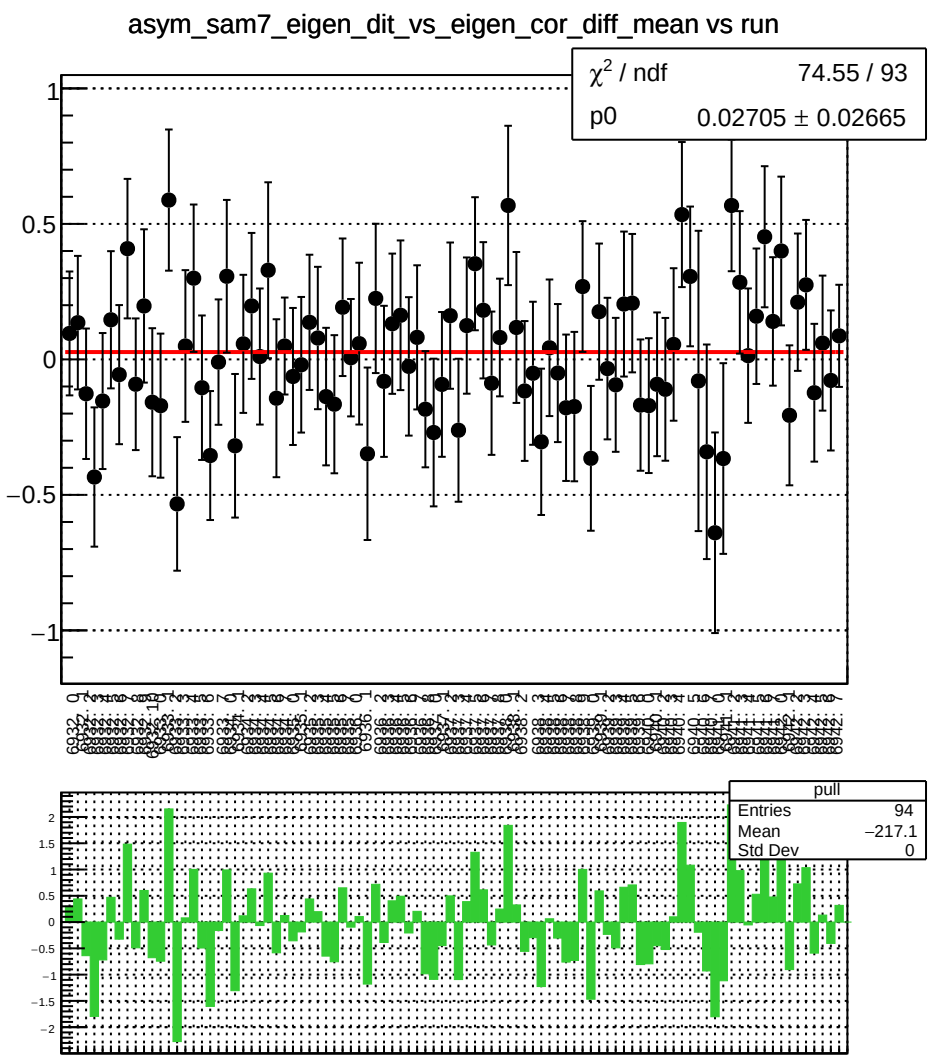

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+04 / 93
p0 24.89 ± 0.01884
55
50
45
40
35
30
25
20

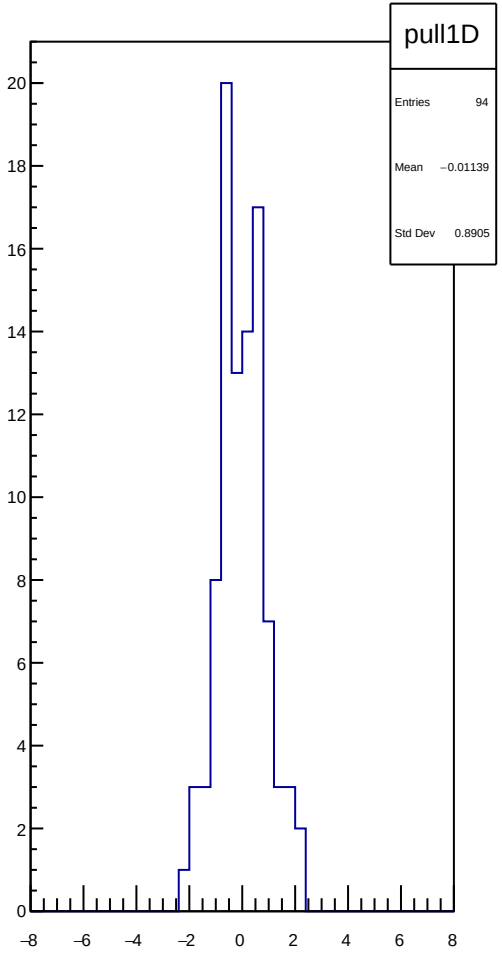

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 91.09 / 93
p0 −2.476e−06 ± 2.402e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean 442.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006653
Std Dev 0.9844
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

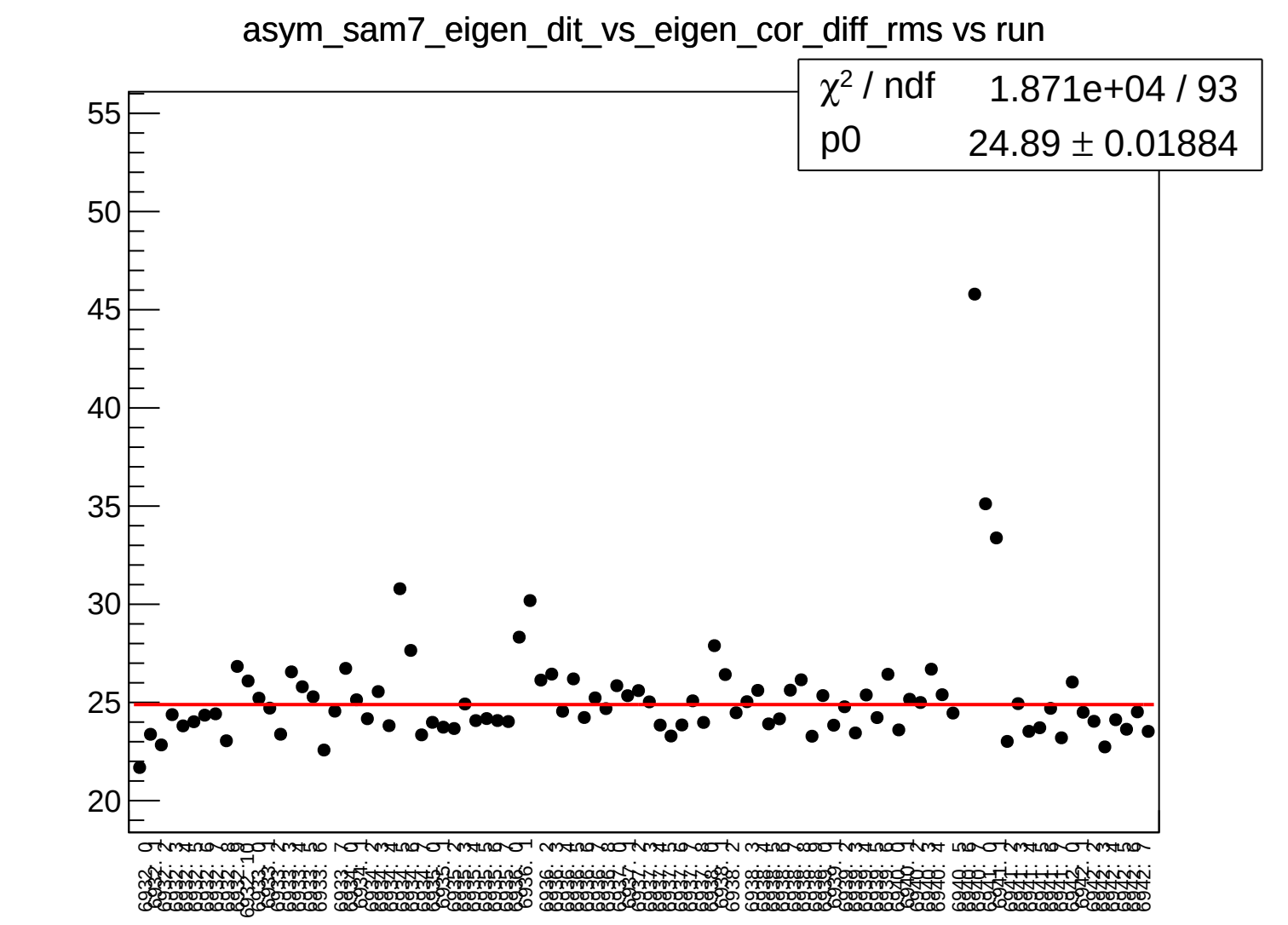

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4656 / 93
p0 0.002252 ± 1.698e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

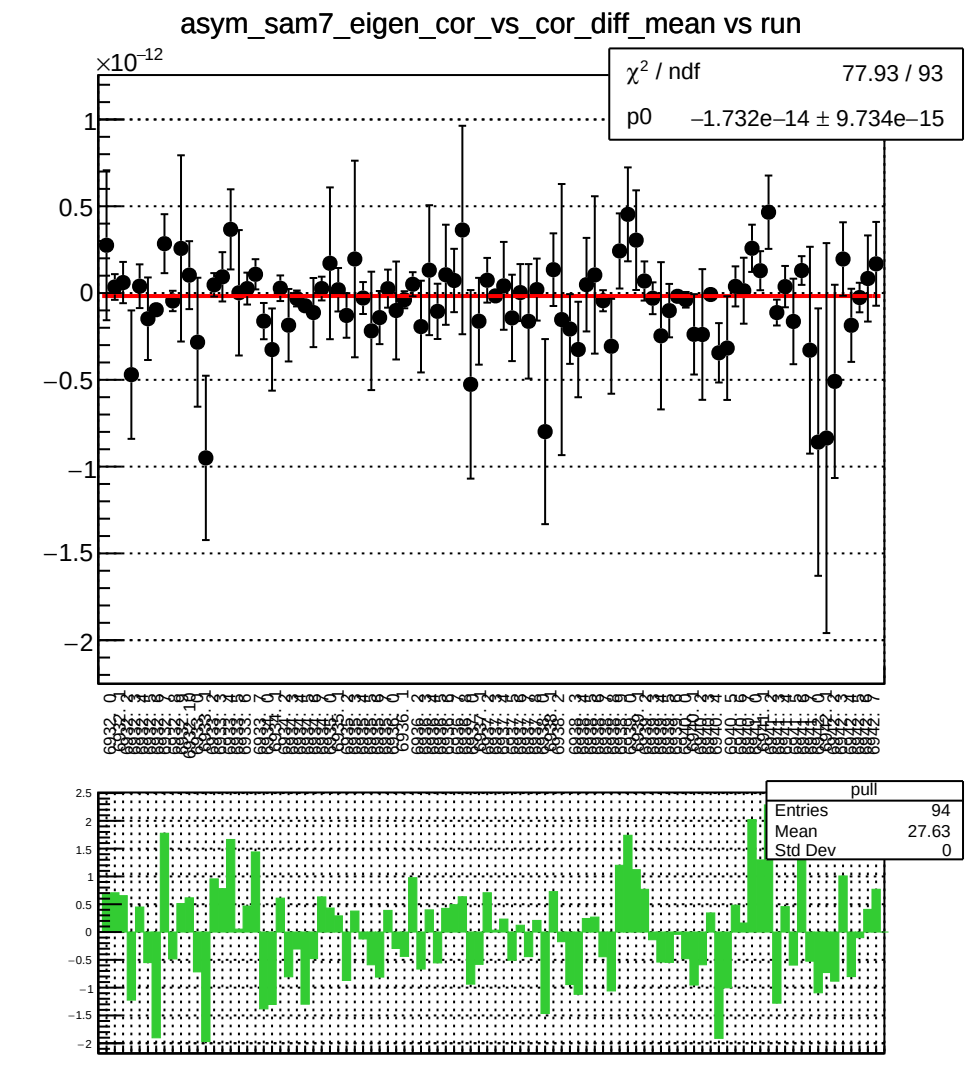

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.55 / 93
p0 0.02705 ± 0.02665
pull
Entries 94
Mean −217.1
Std Dev 0
pull1D
Entries 94
Mean −0.01139
Std Dev 0.8905

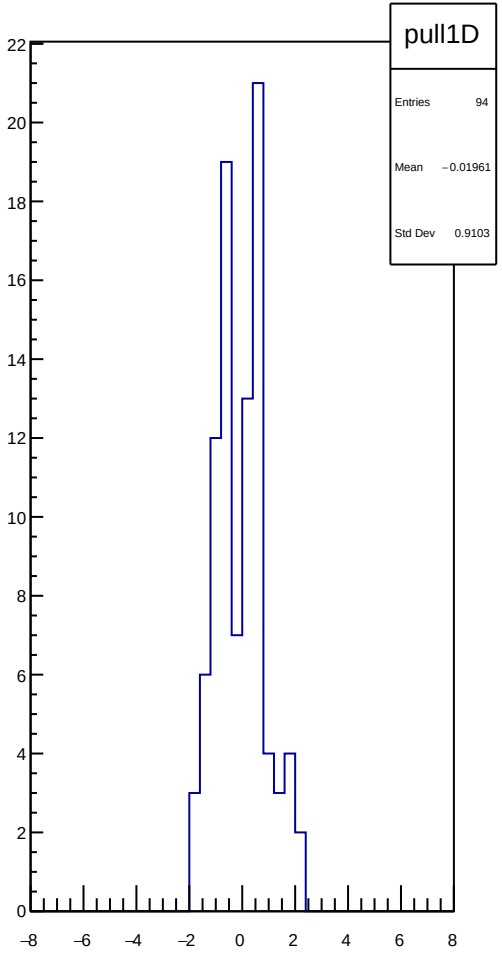

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.871e+04 / 93
p0 24.89 ± 0.01884
55
50
45
40
35
30
25
20

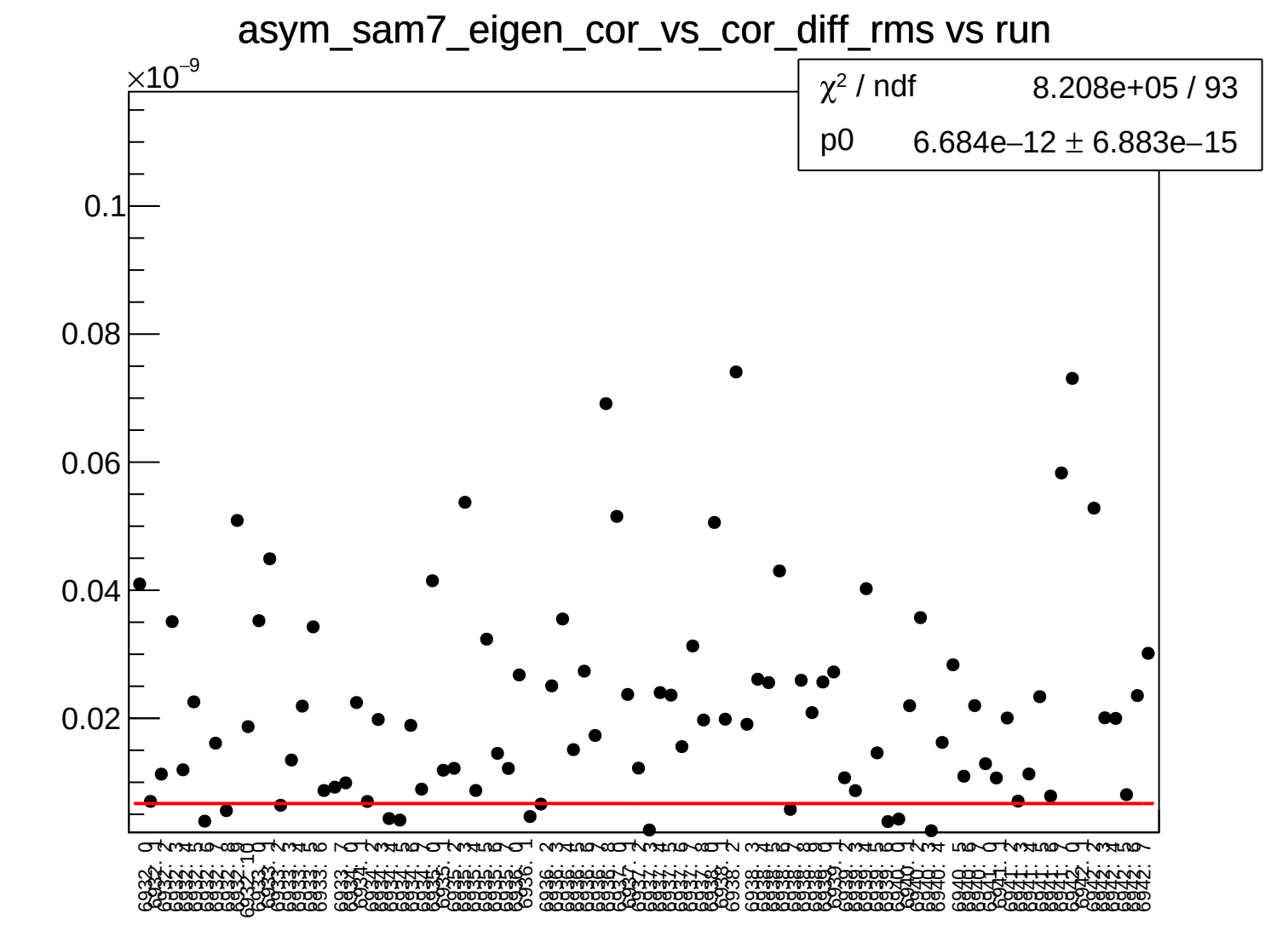

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.55 / 93
p0 0.02705 ± 0.02665
pull
Entries 94
Mean −217.1
Std Dev 0

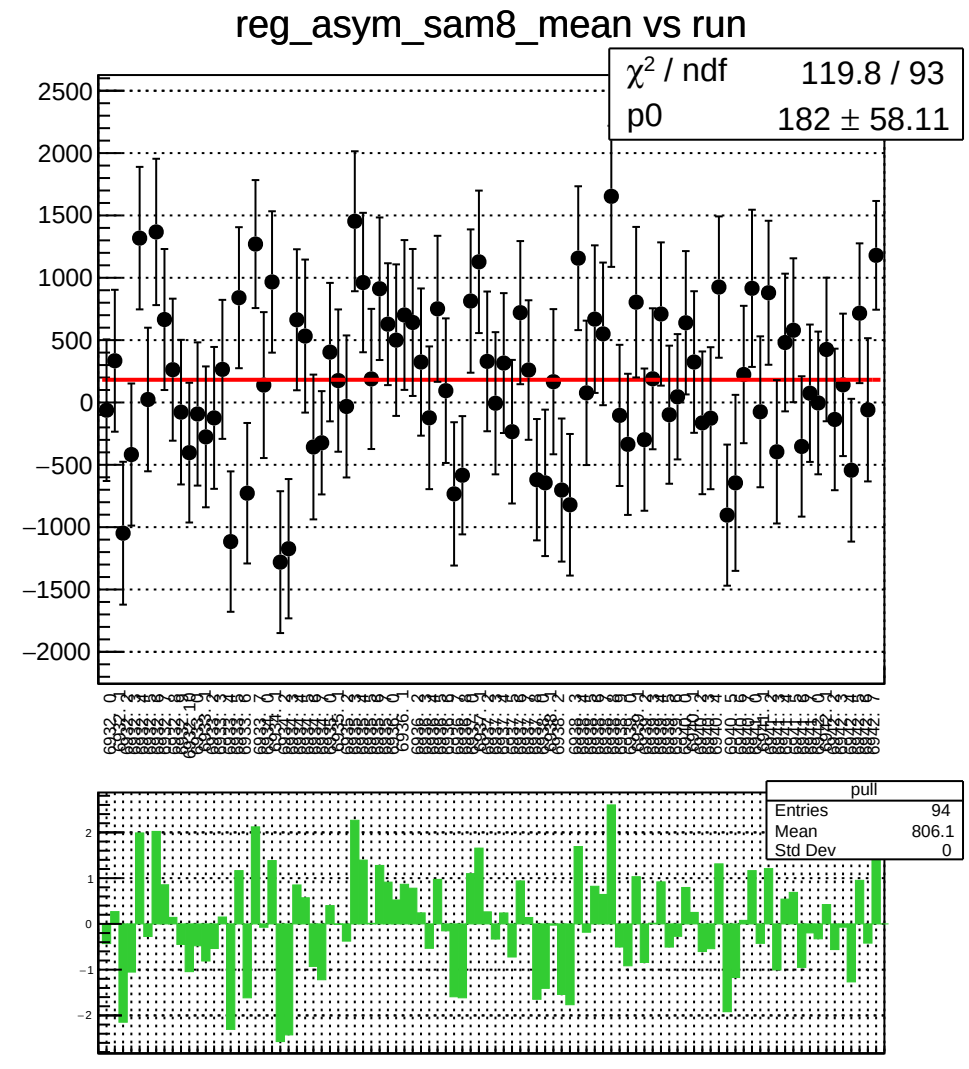

pull1D
Entries 94
Mean −0.01139
Std Dev 0.8905

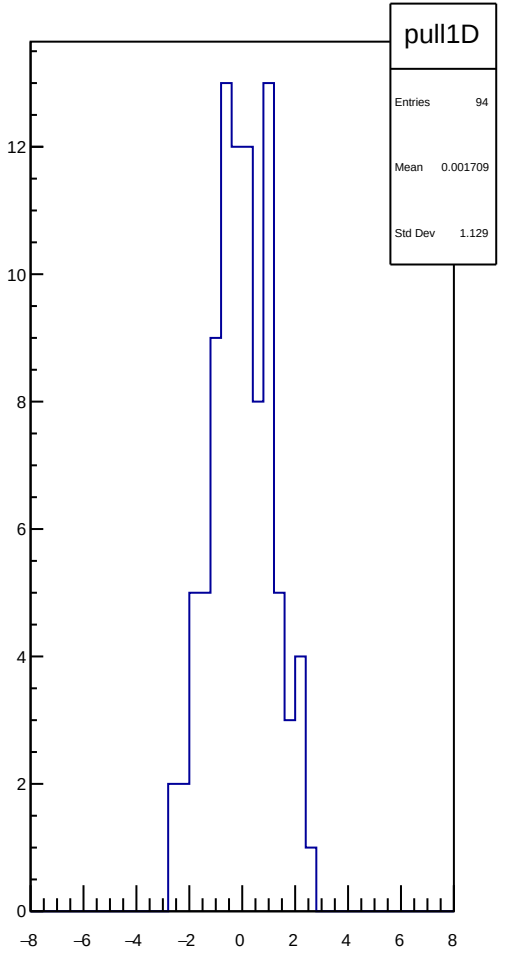

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.871e+04 / 93
p0 24.89 ± 0.01884
55
50
45
40
35
30
25
20

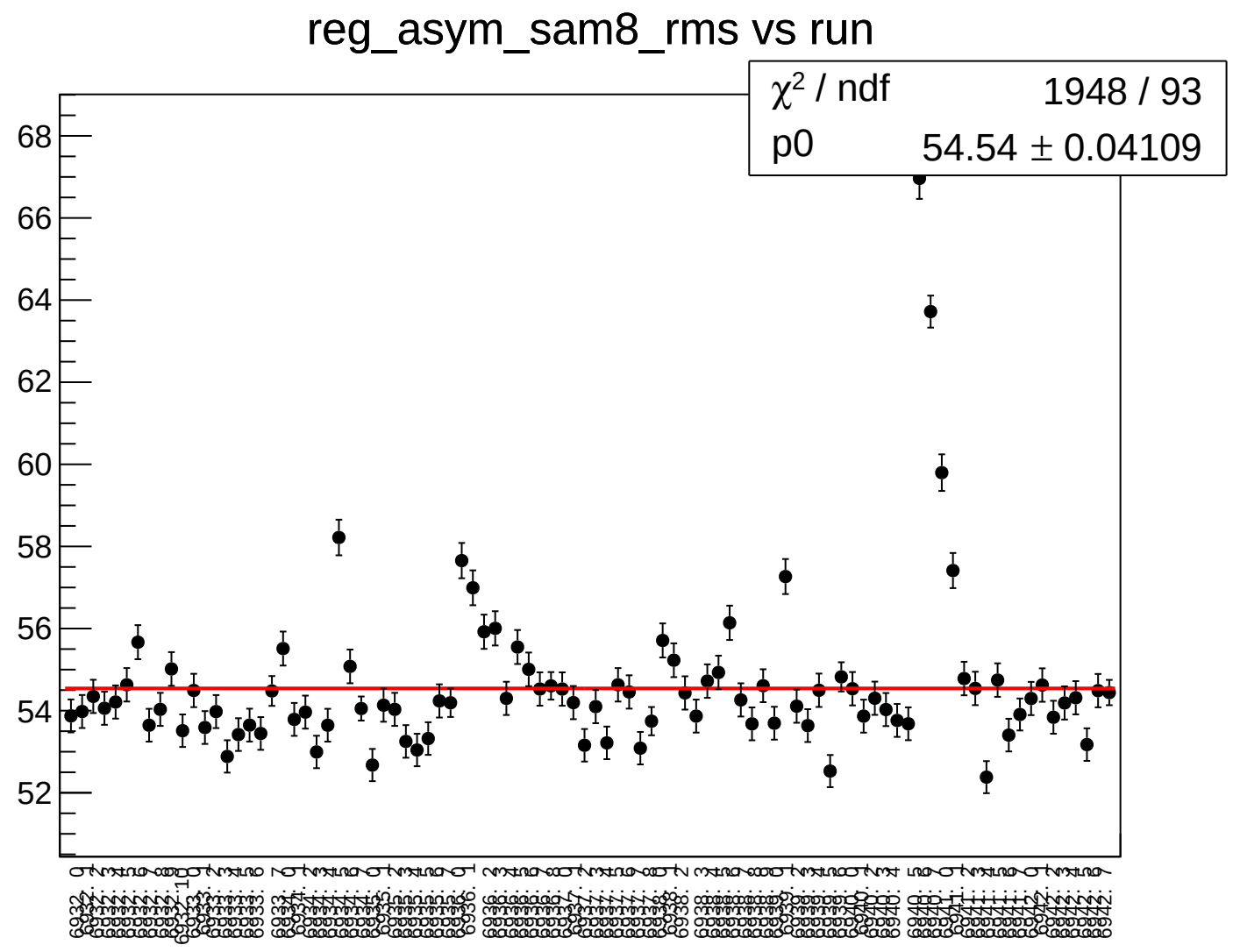

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.93 / 93
p0 −1.732e−14 ± 9.734e−15
pull
Entries 94
Mean 27.63
Std Dev 0

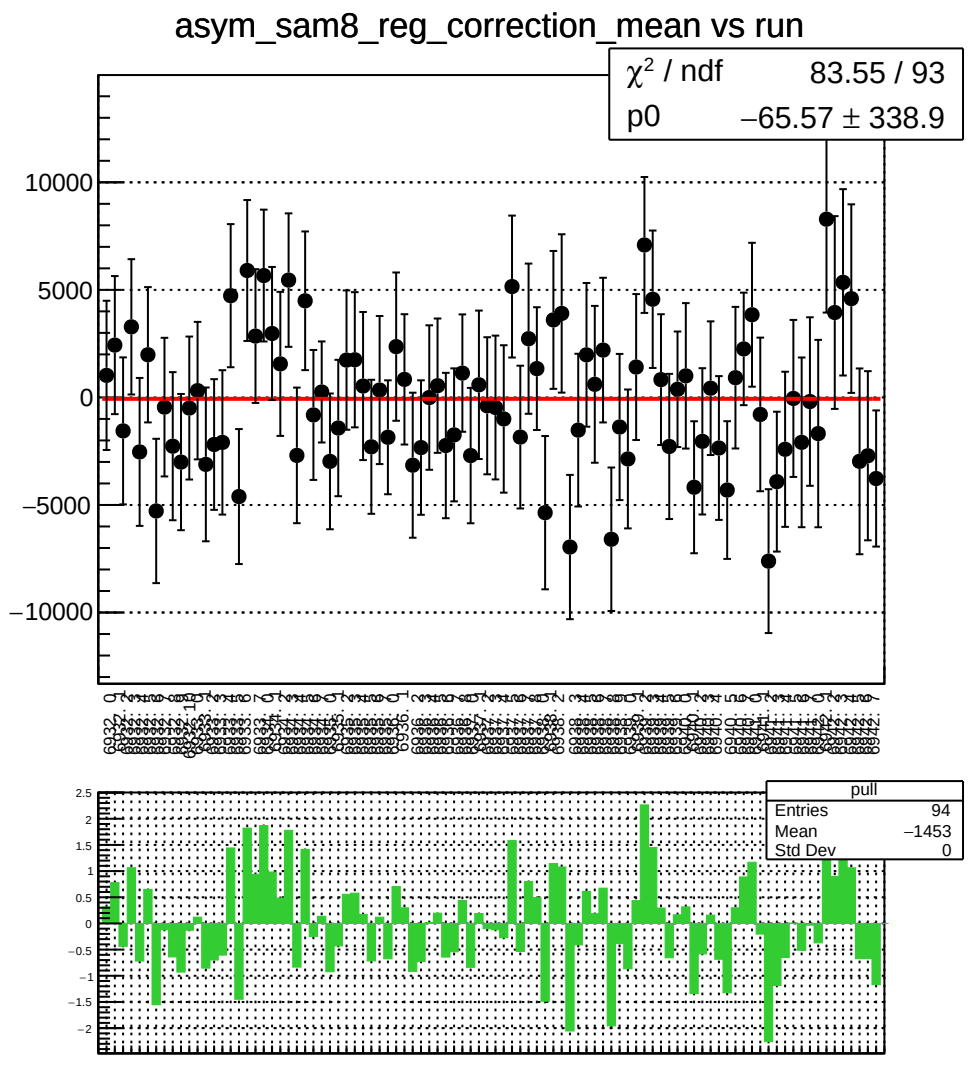

pull1D
Entries 94
Mean −0.01961
Std Dev 0.9103

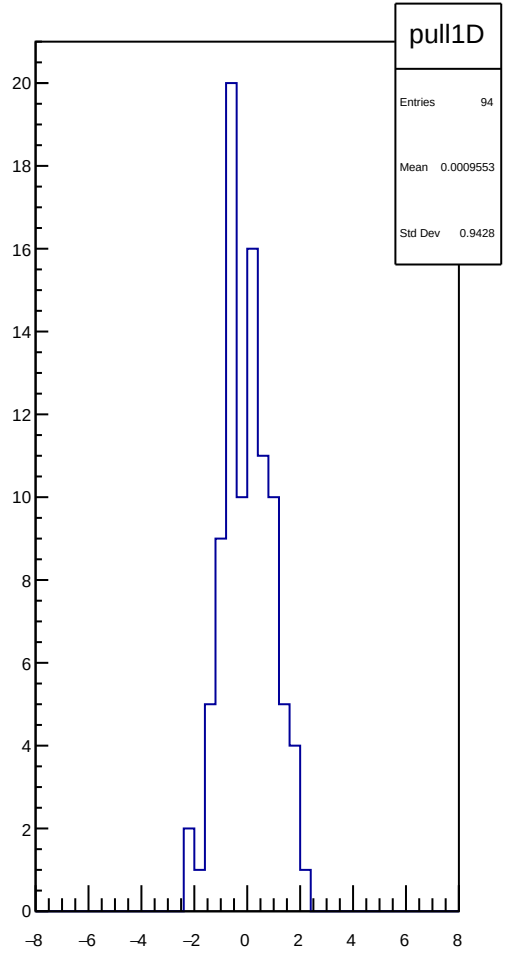

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.208e+05 / 93
p0 6.684e−12 ± 6.883e−15
0.1
0.08
0.06
0.04
0.02

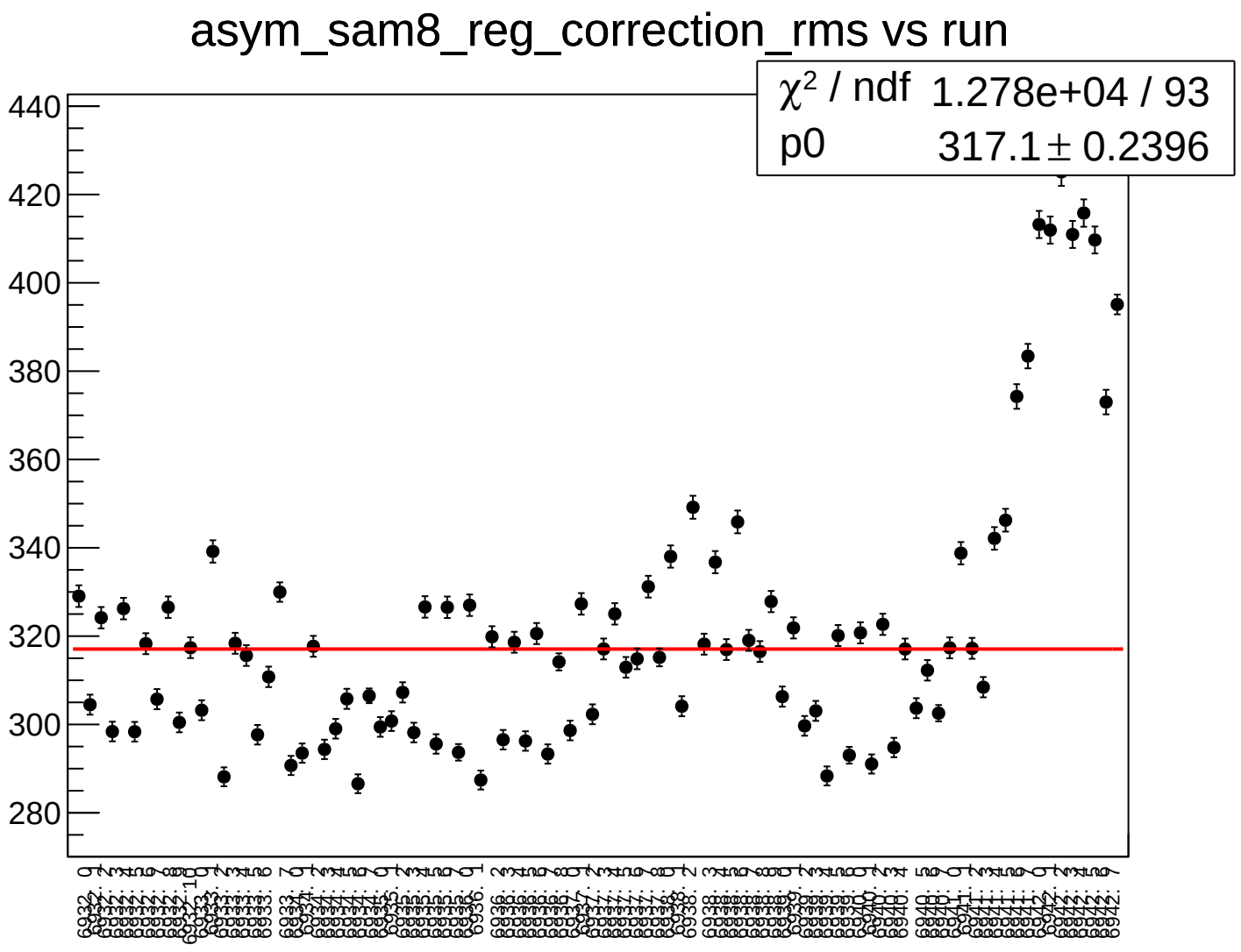

reg_asym_sam8_mean vs run
χ² / ndf 119.8 / 93
p0 182 ± 58.11
pull
Entries 94
Mean 806.1
Std Dev 0

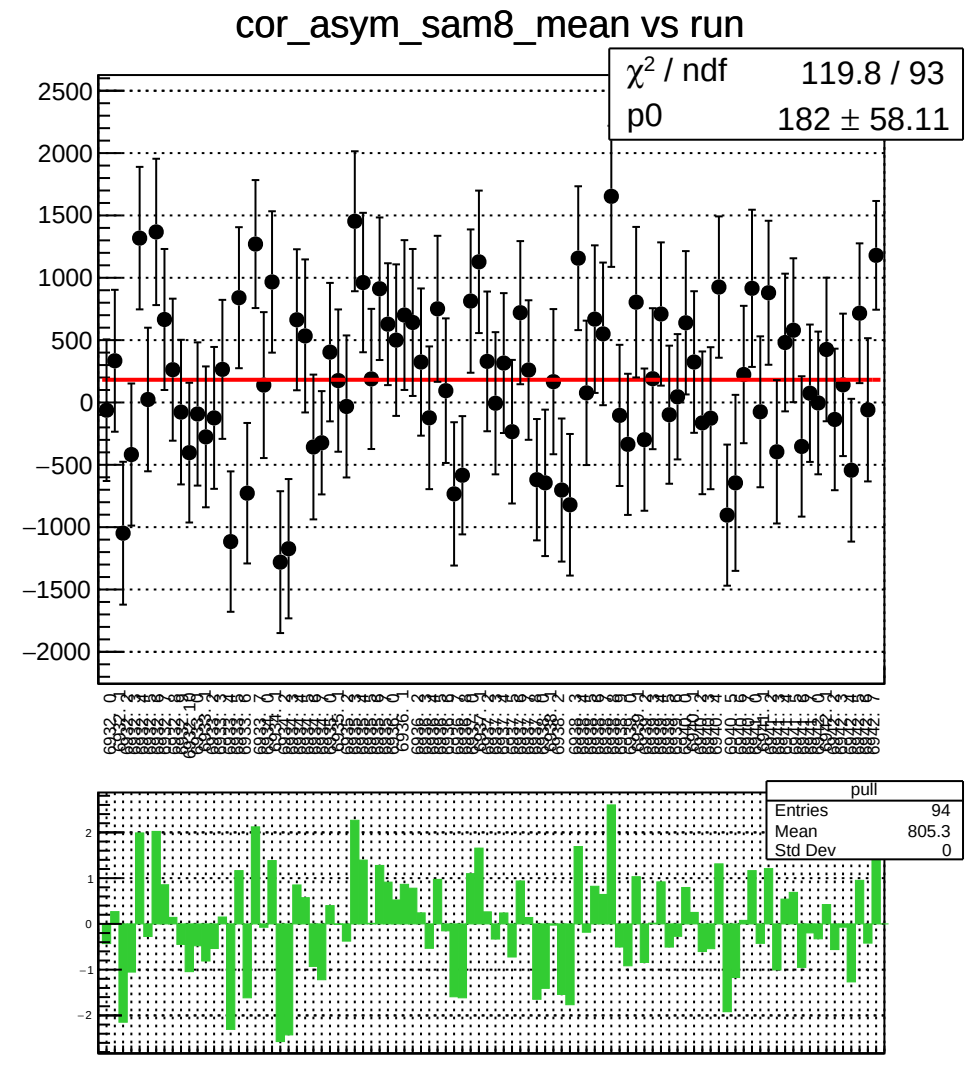

pull1D
Entries 94
Mean 0.001709
Std Dev 1.129

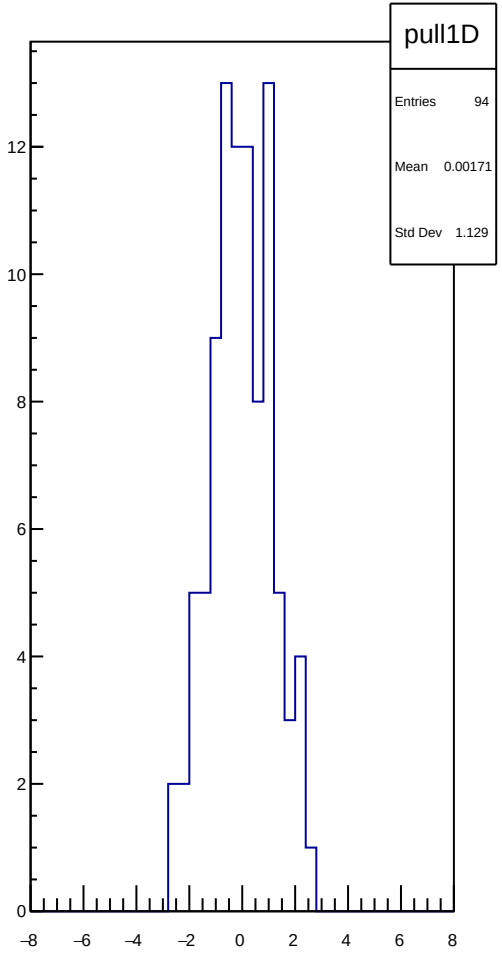

reg_asym_sam8_rms vs run
χ^2 / ndf 1948 / 93
p0 54.54 ± 0.04109
68
66
64
62
60
58
56
54
52

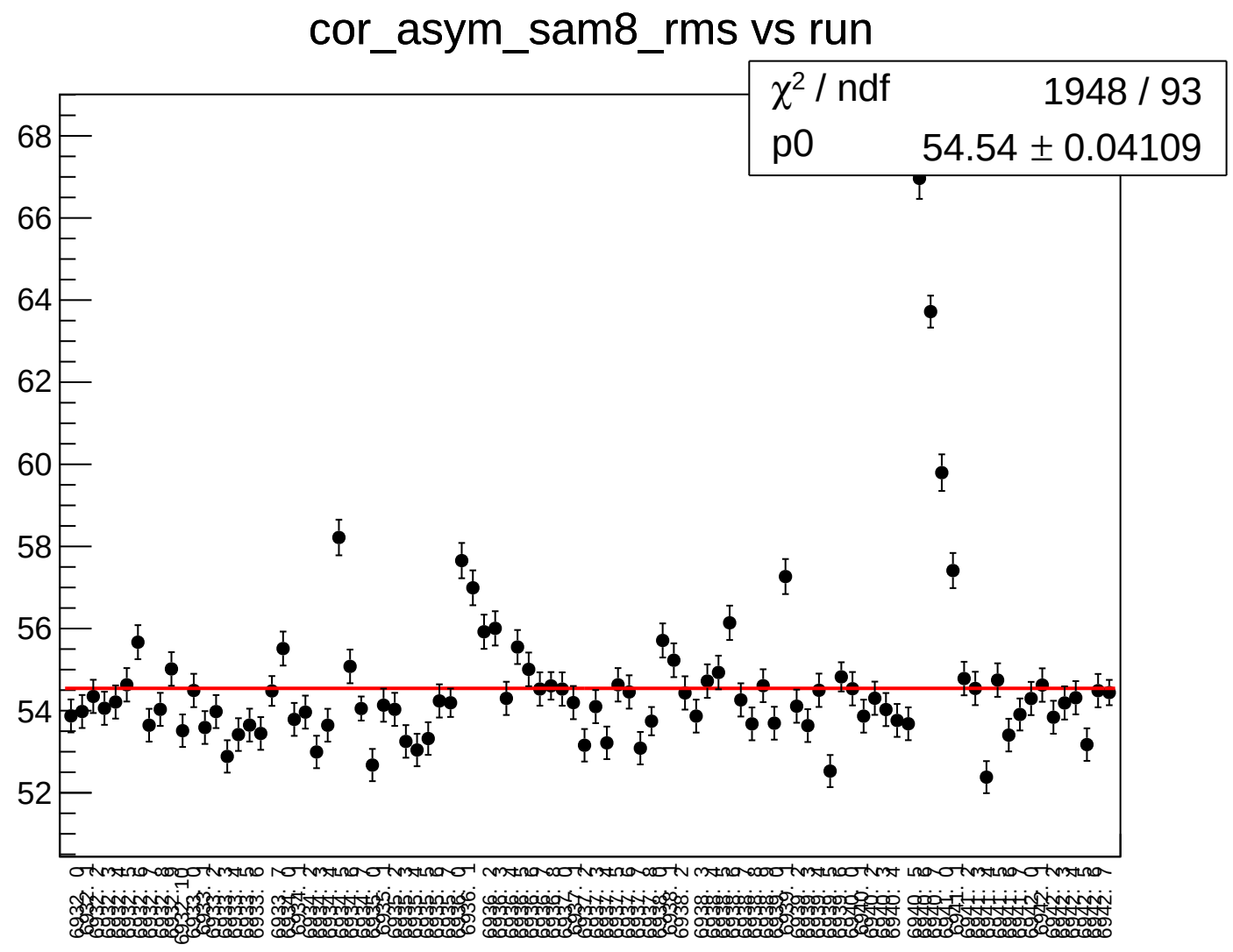

asym_sam8_reg_correction_mean vs run
χ² / ndf 83.55 / 93
p0 −65.57 ± 338.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −1453
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

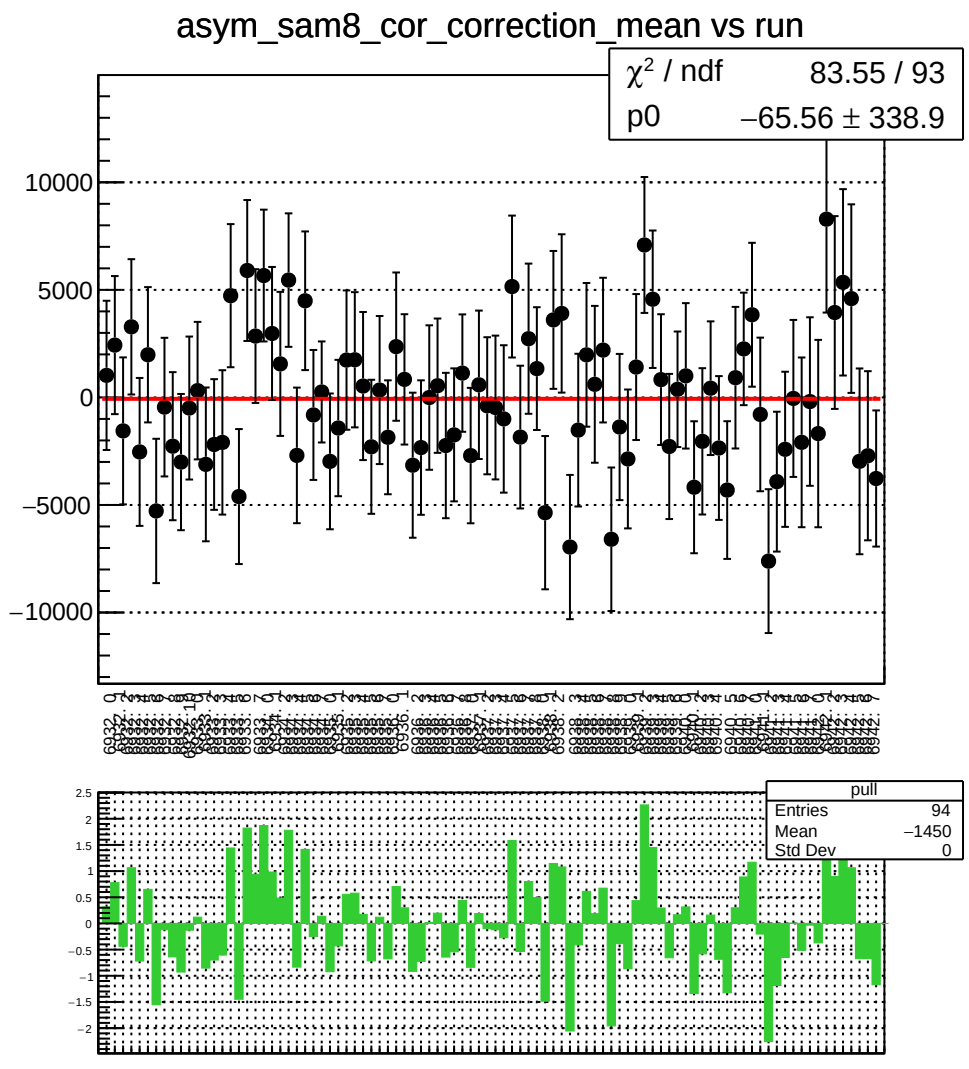

pull1D
Entries 94
Mean 0.0009553
Std Dev 0.9428
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

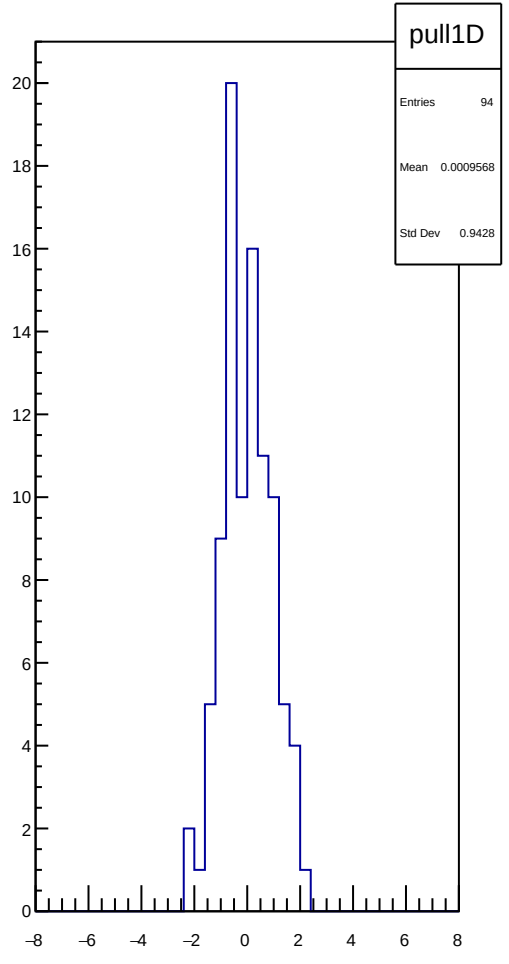

asym_sam8_reg_correction_rms vs run
χ² / ndf 1.278e+04 / 93
p0 317.1 ± 0.2396
440
420
400
380
360
340
320
300
280


cor_asym_sam8_mean vs run
χ² / ndf 119.8 / 93
p0 182 ± 58.11
pull
Entries 94
Mean 805.3
Std Dev 0

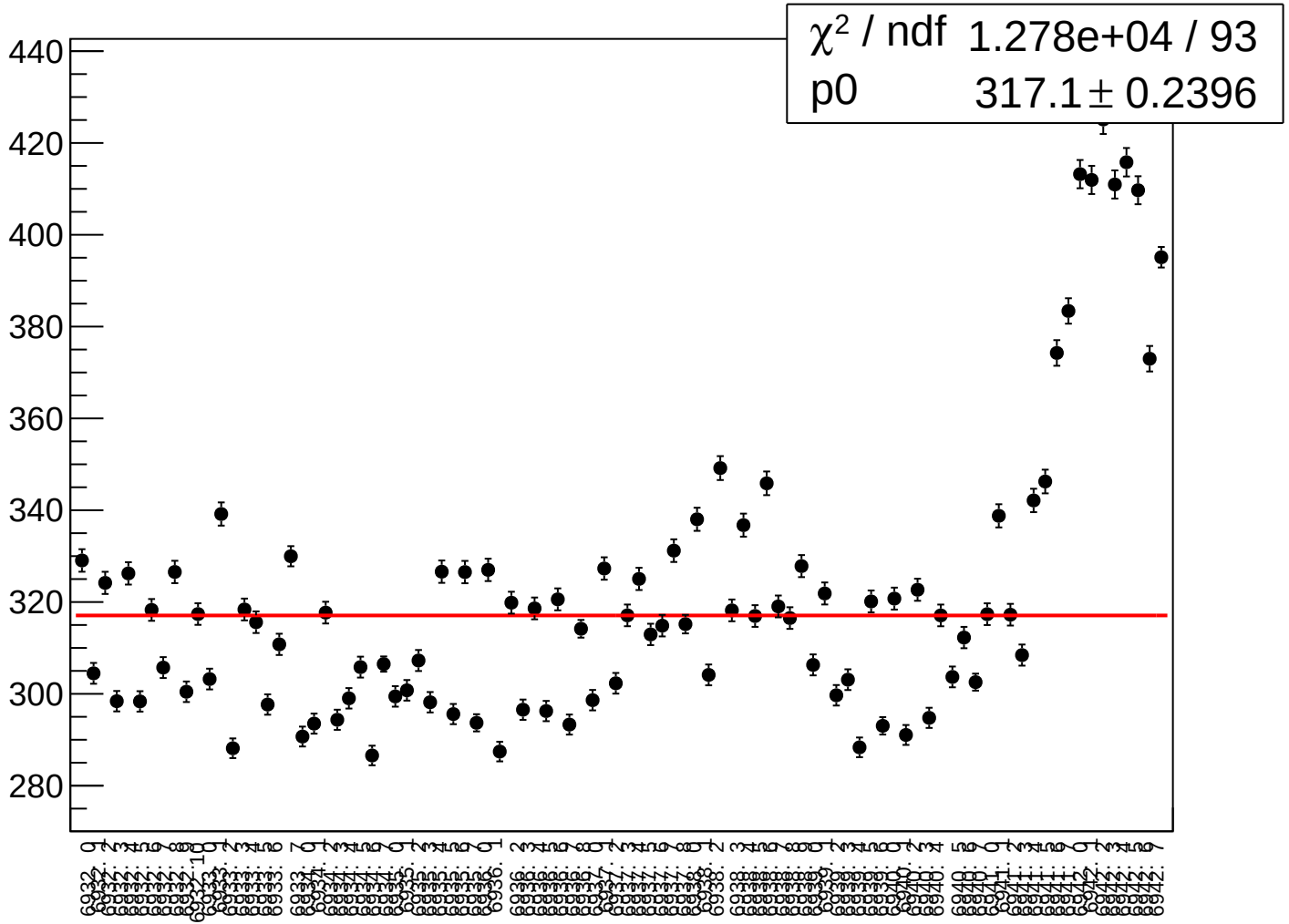

pull1D
Entries 94
Mean 0.00171
Std Dev 1.129

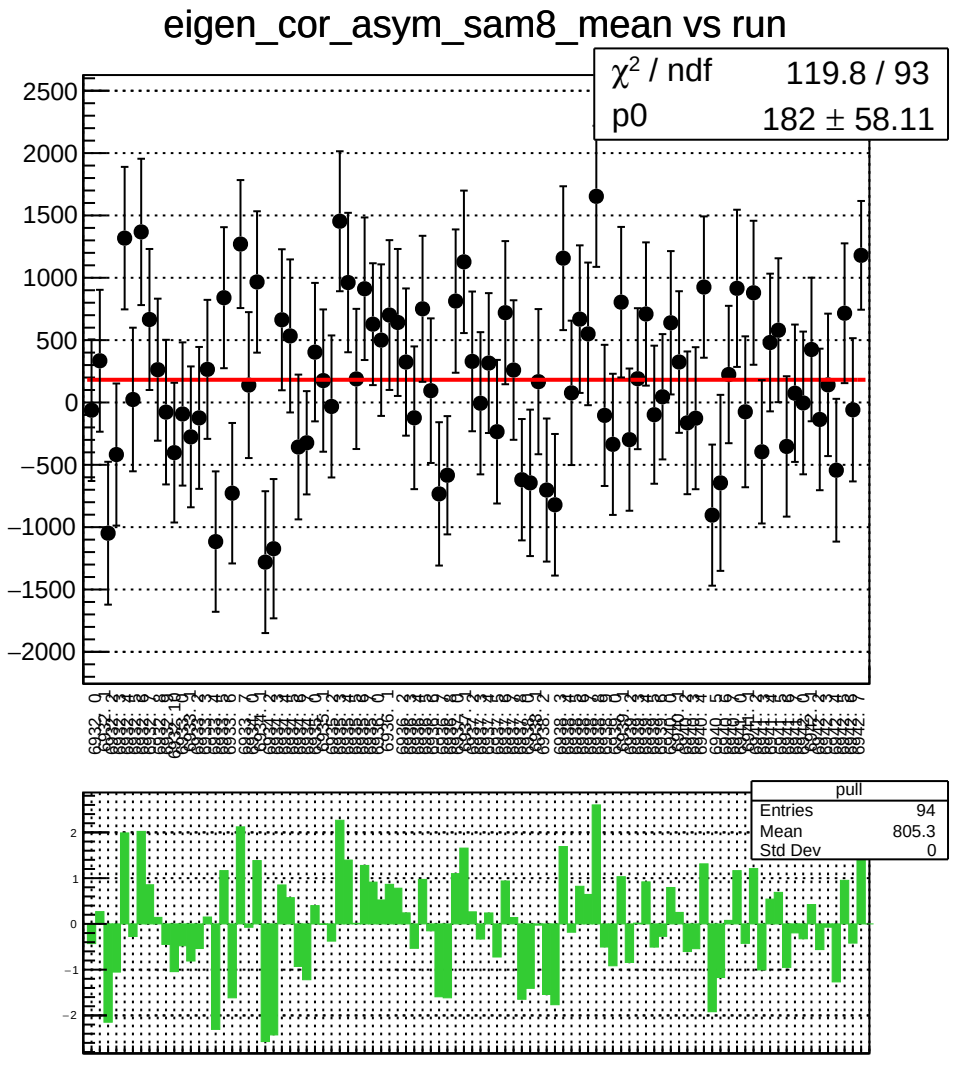

cor_asym_sam8_rms vs run
χ² / ndf 1948 / 93
p0 54.54 ± 0.04109
68
66
64
62
60
58
56
54
52

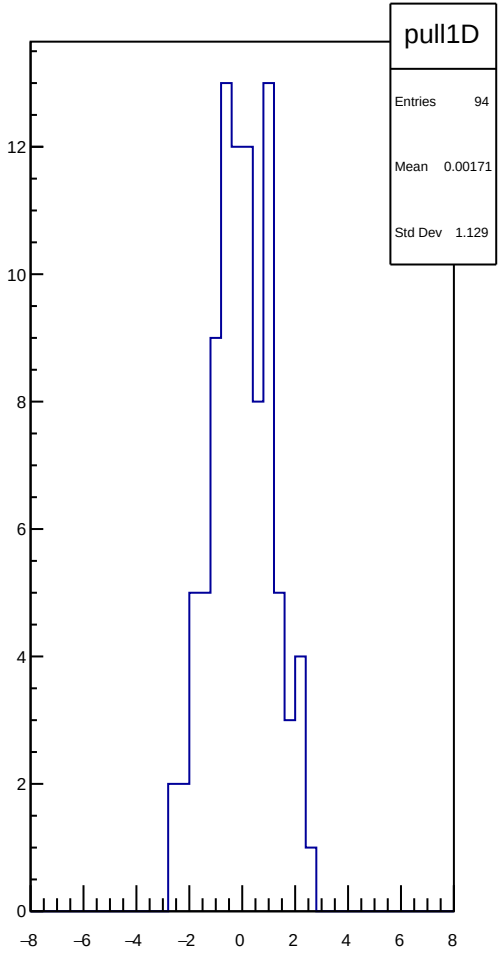

asym_sam8_cor_correction_mean vs run
χ² / ndf 83.55 / 93
p0 −65.56 ± 338.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −1450
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

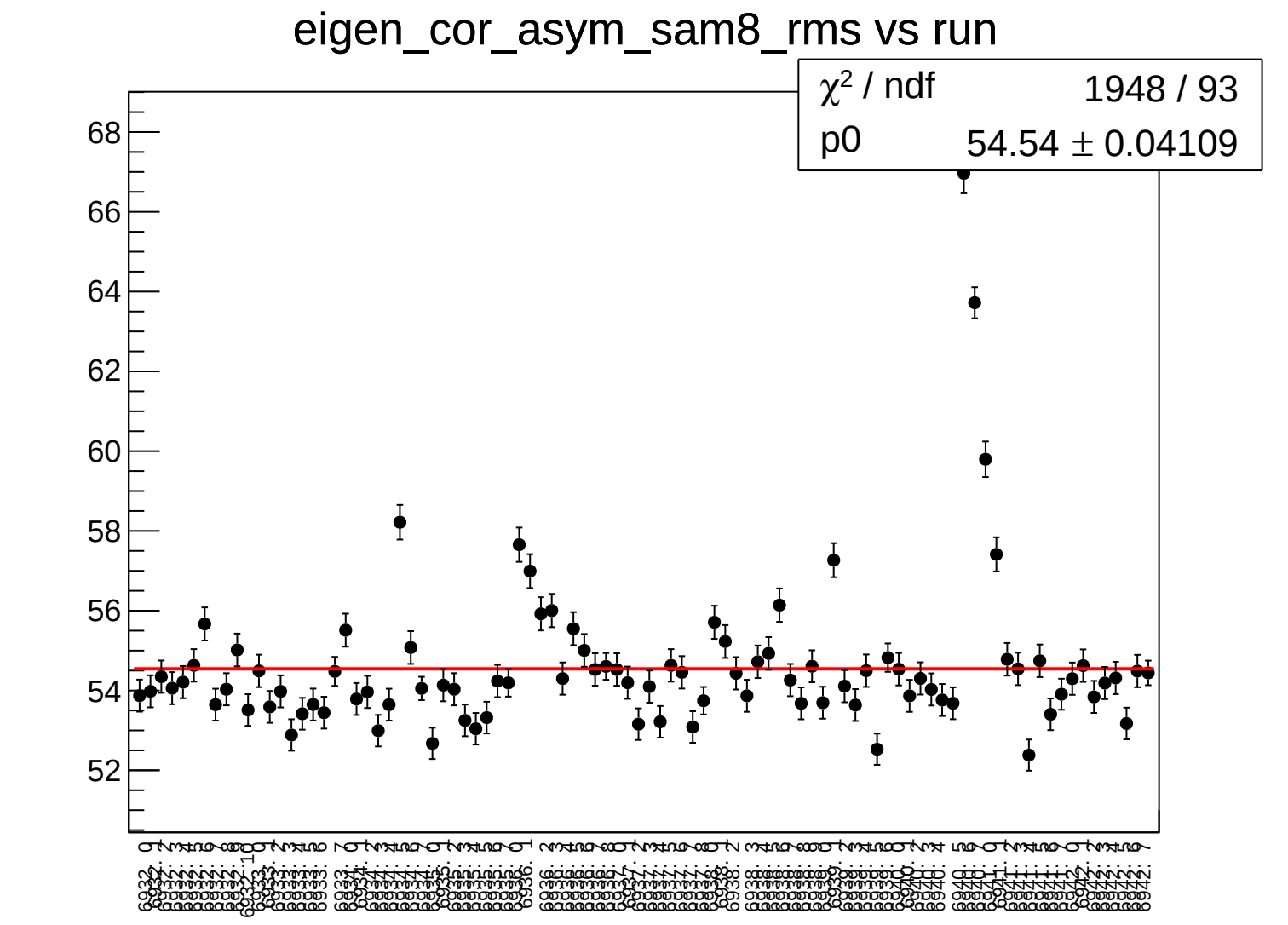

pull1D
Entries 94
Mean 0.0009568
Std Dev 0.9428
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

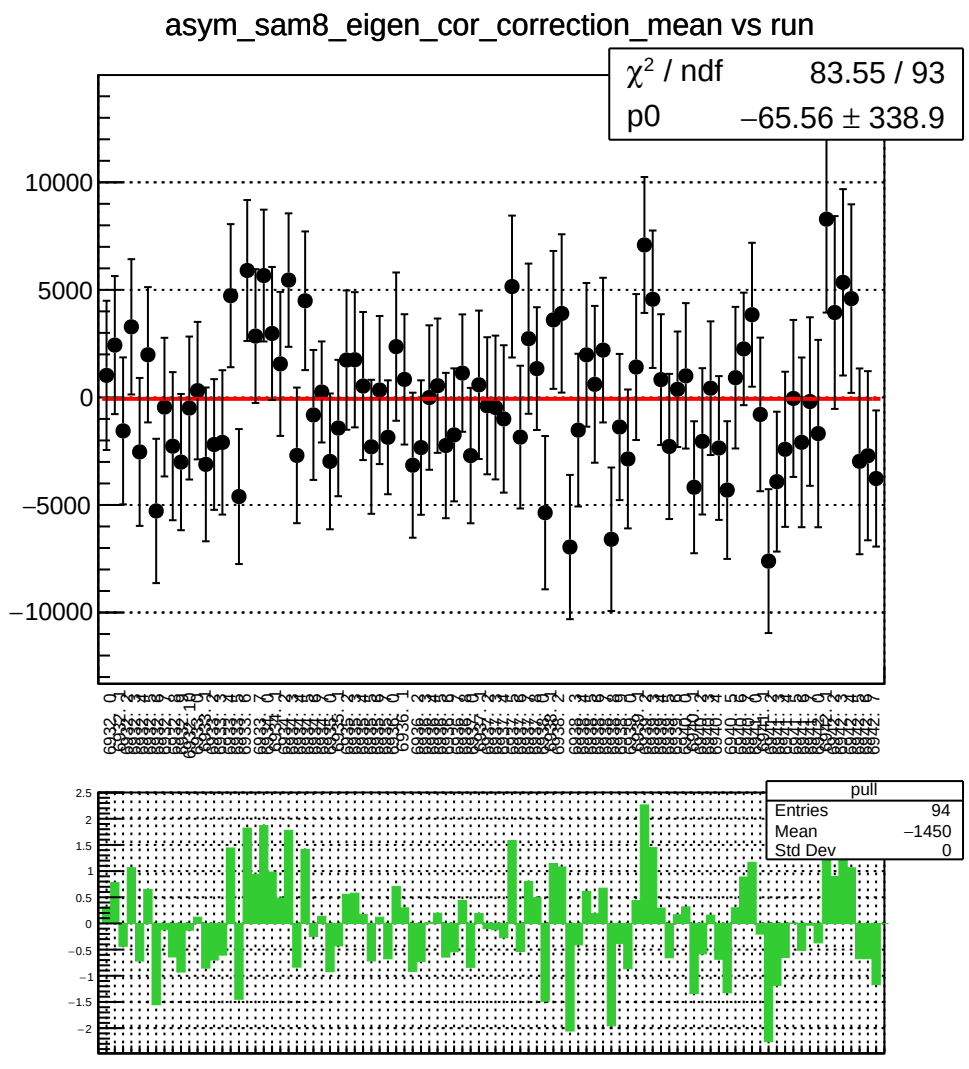
asym_sam8_cor_correction_rms vs run

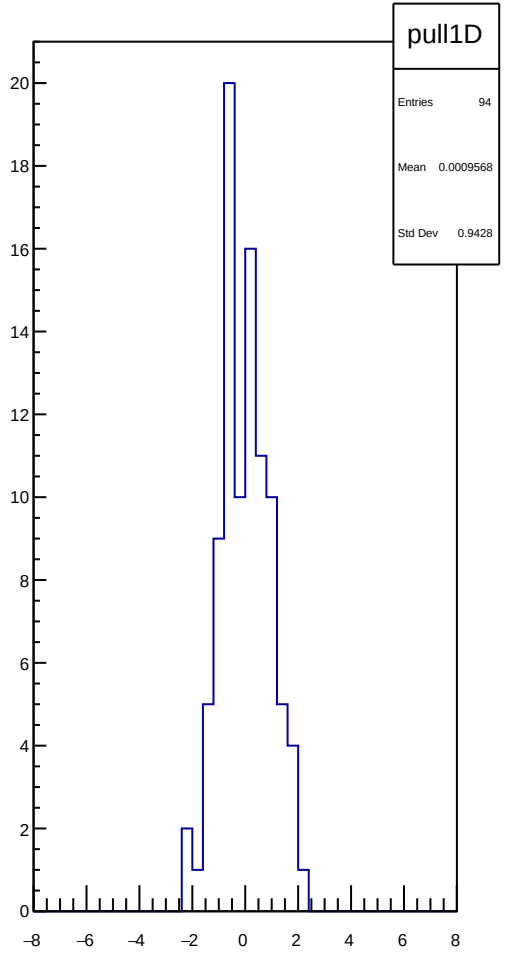


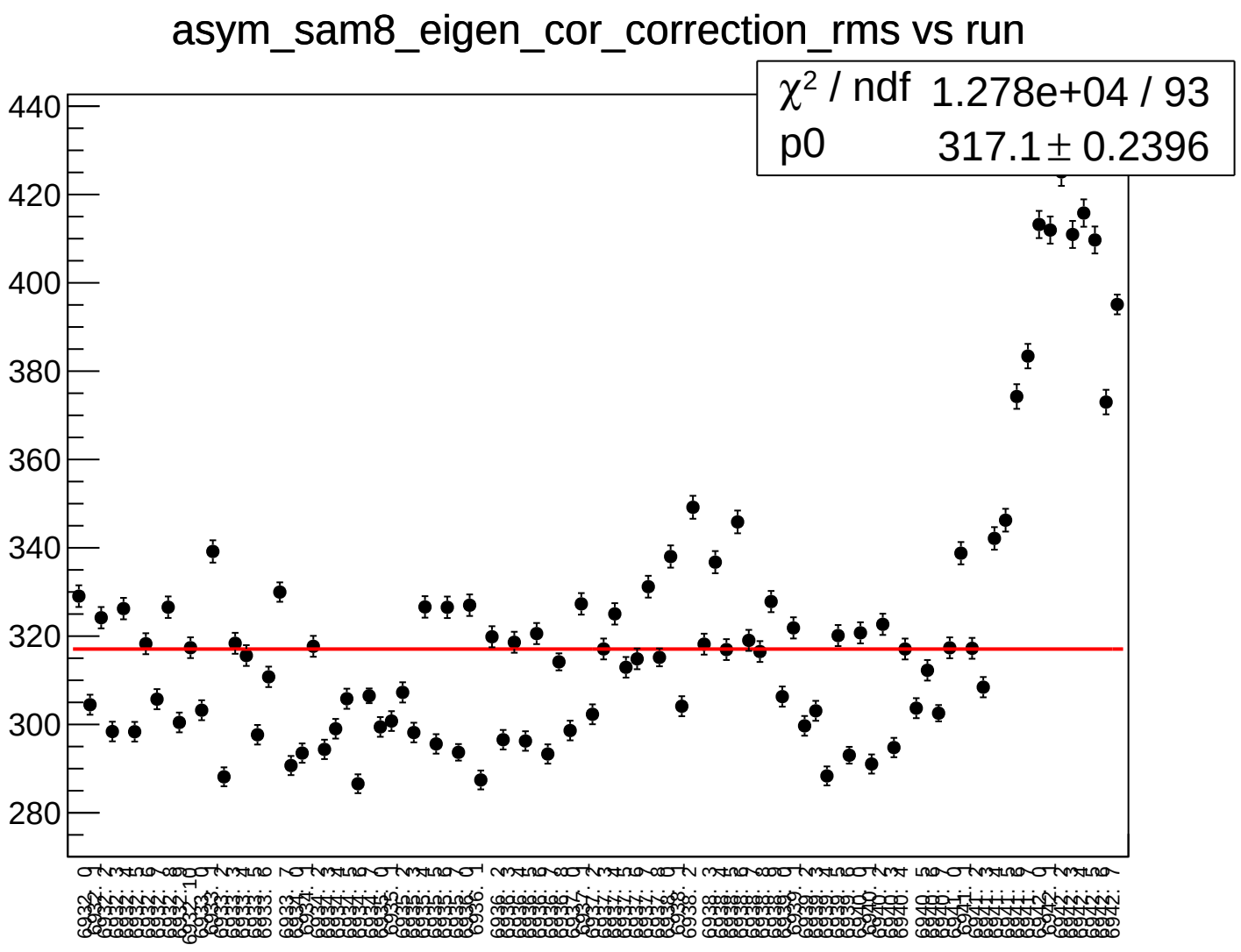

eigen_cor_asym_sam8_mean vs run
χ² / ndf 119.8 / 93
p0 182 ± 58.11
pull
Entries 94
Mean 805.3
Std Dev 0

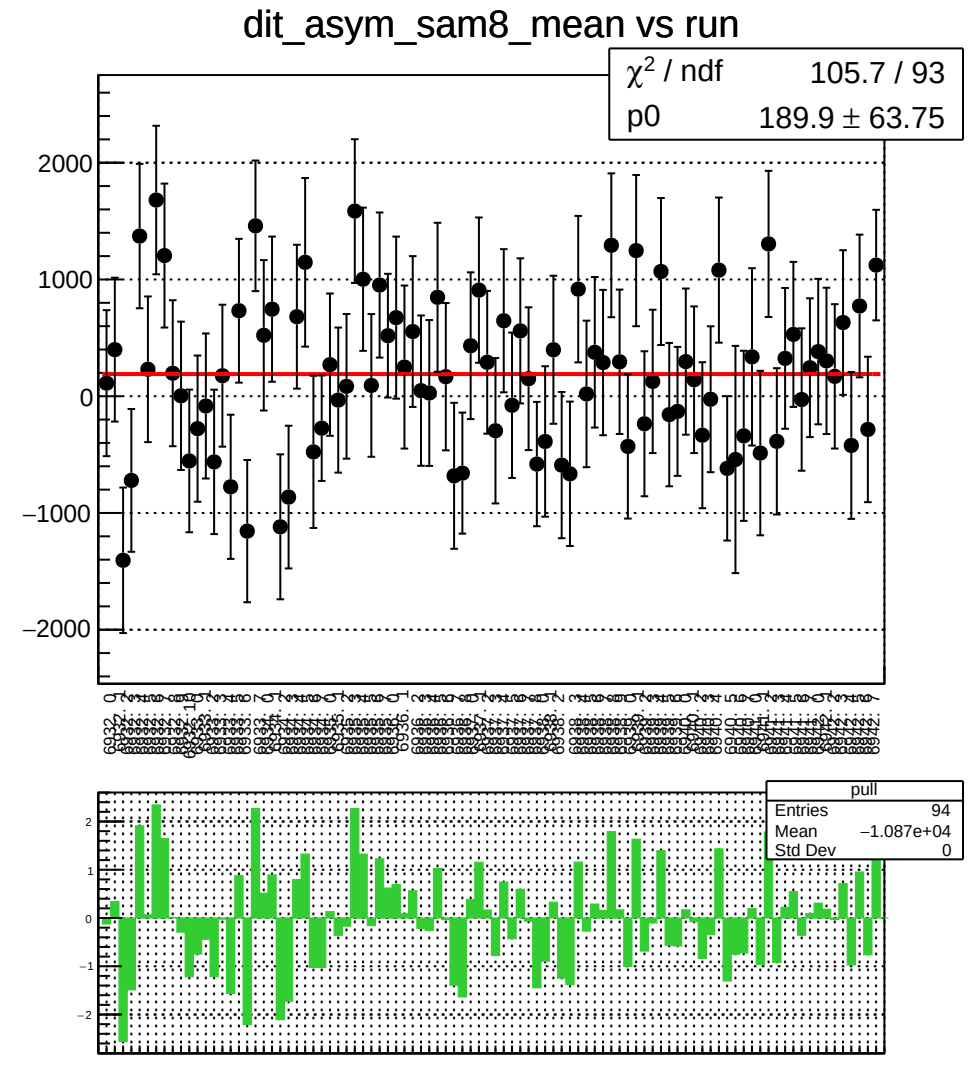

pull1D
Entries 94
Mean 0.00171
Std Dev 1.129

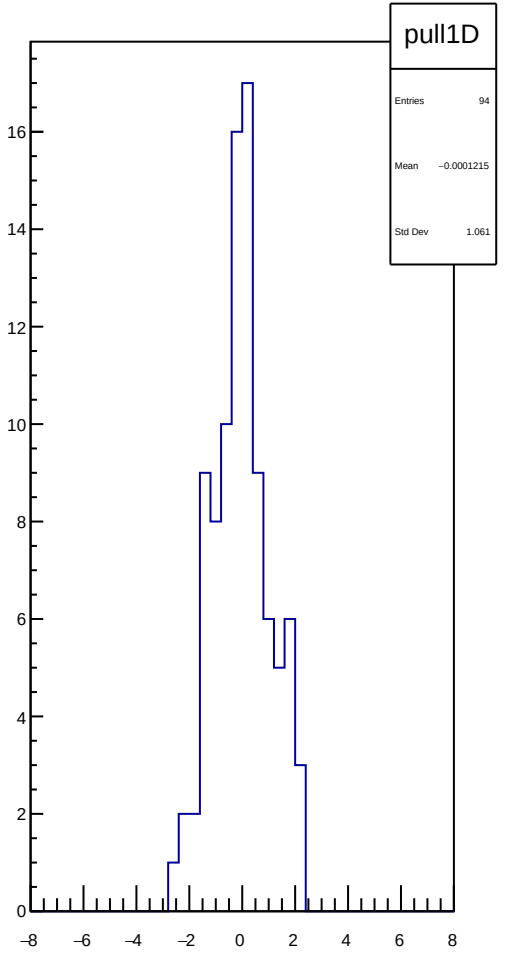

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1948 / 93
p0 54.54 ± 0.04109
68
66
64
62
60
58
56
54
52

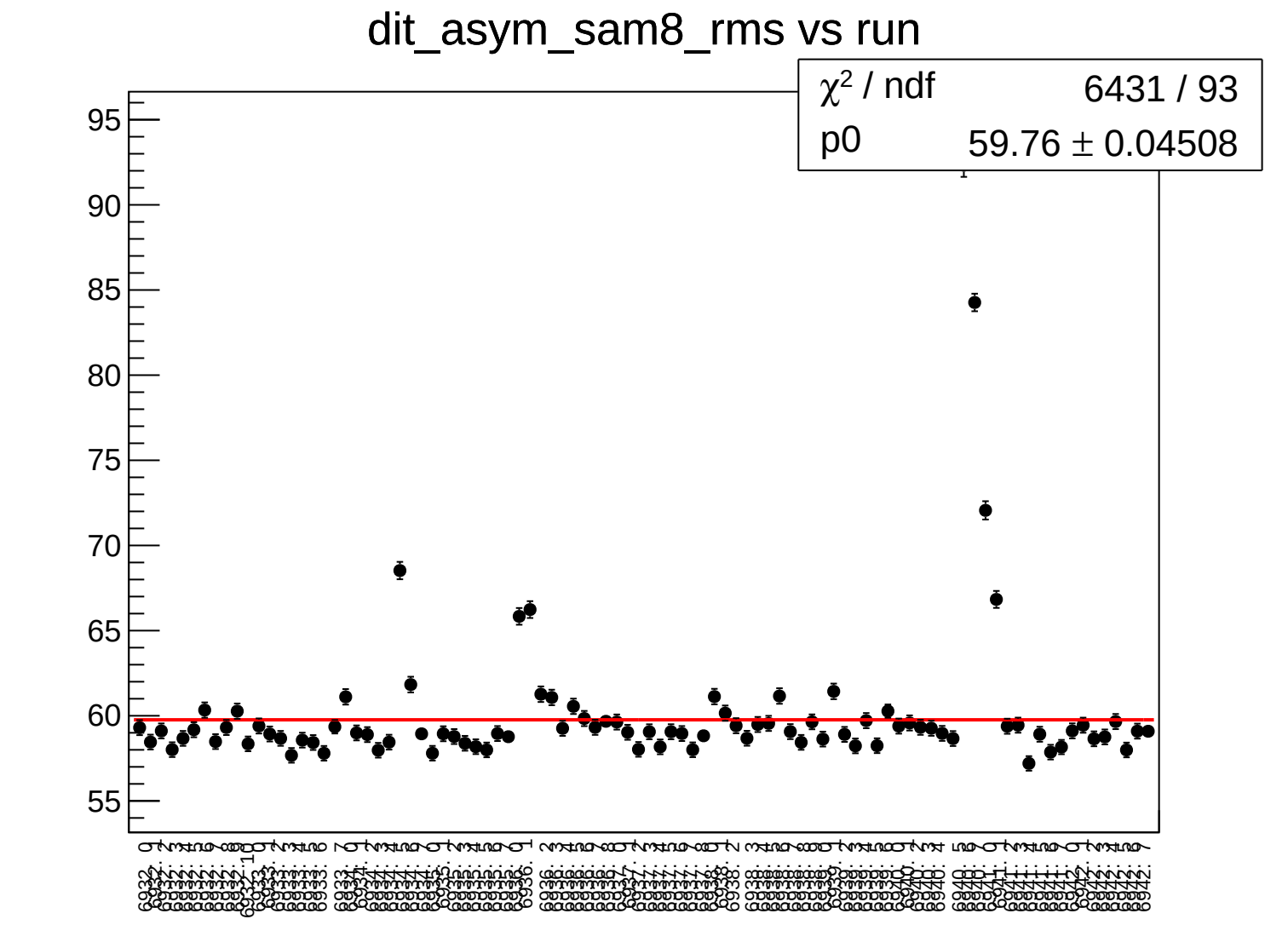

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 83.55 / 93
p0 −65.56 ± 338.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −1450
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

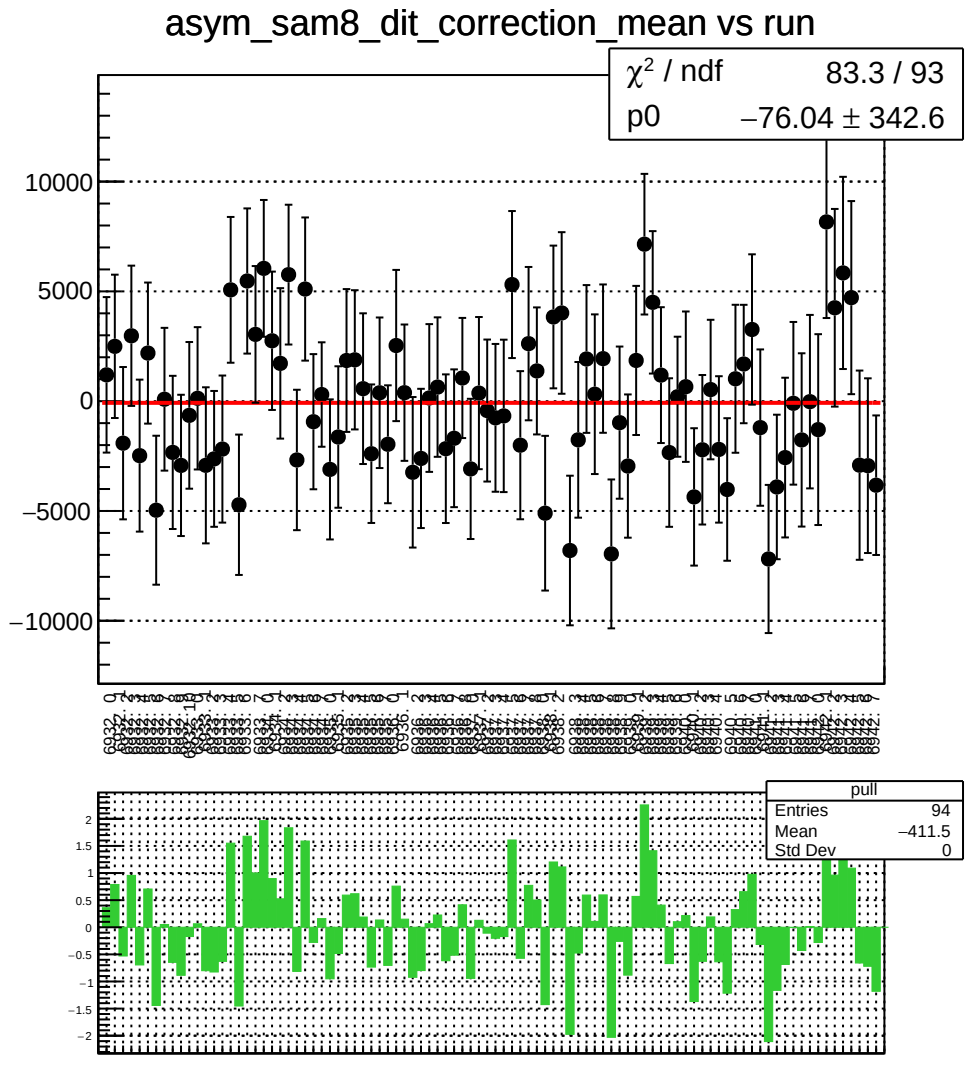

pull1D
Entries 94
Mean 0.0009568
Std Dev 0.9428
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

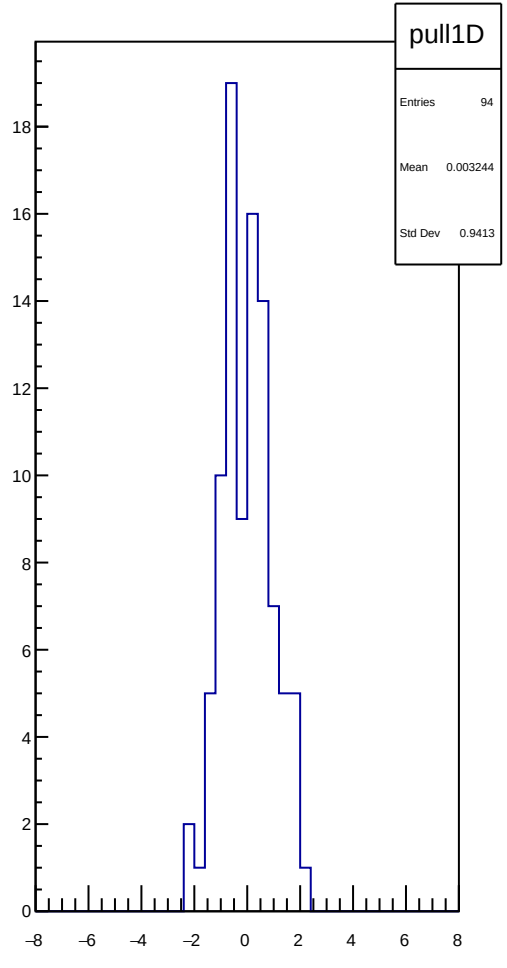

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 1.278e+04 / 93
p0 317.1 ± 0.2396
440
420
400
380
360
340
320
300
280

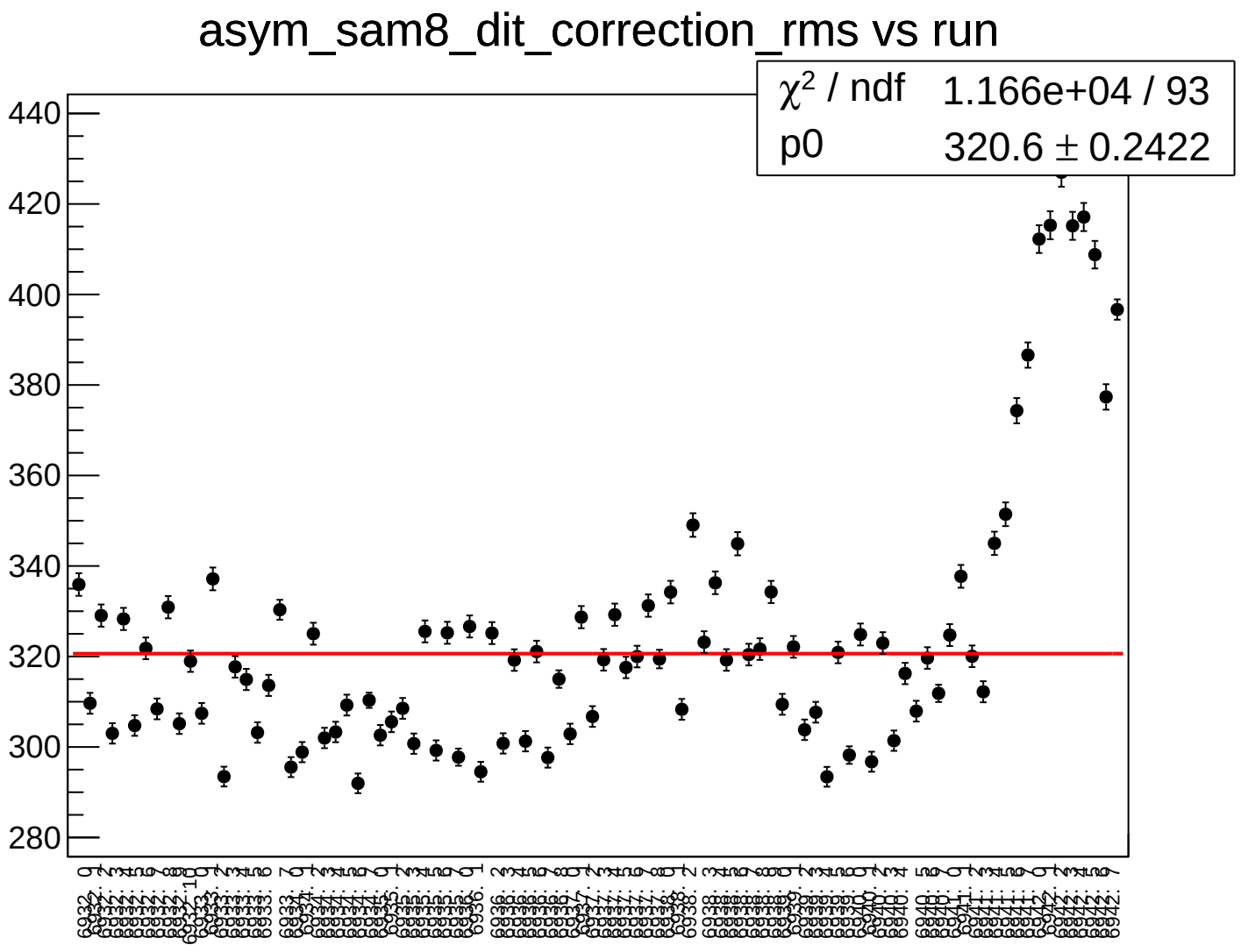

dit_asym_sam8_mean vs run
χ² / ndf 105.7 / 93
p0 189.9 ± 63.75
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −1.087e+04
Std Dev 0
2
1
0
−1
−2

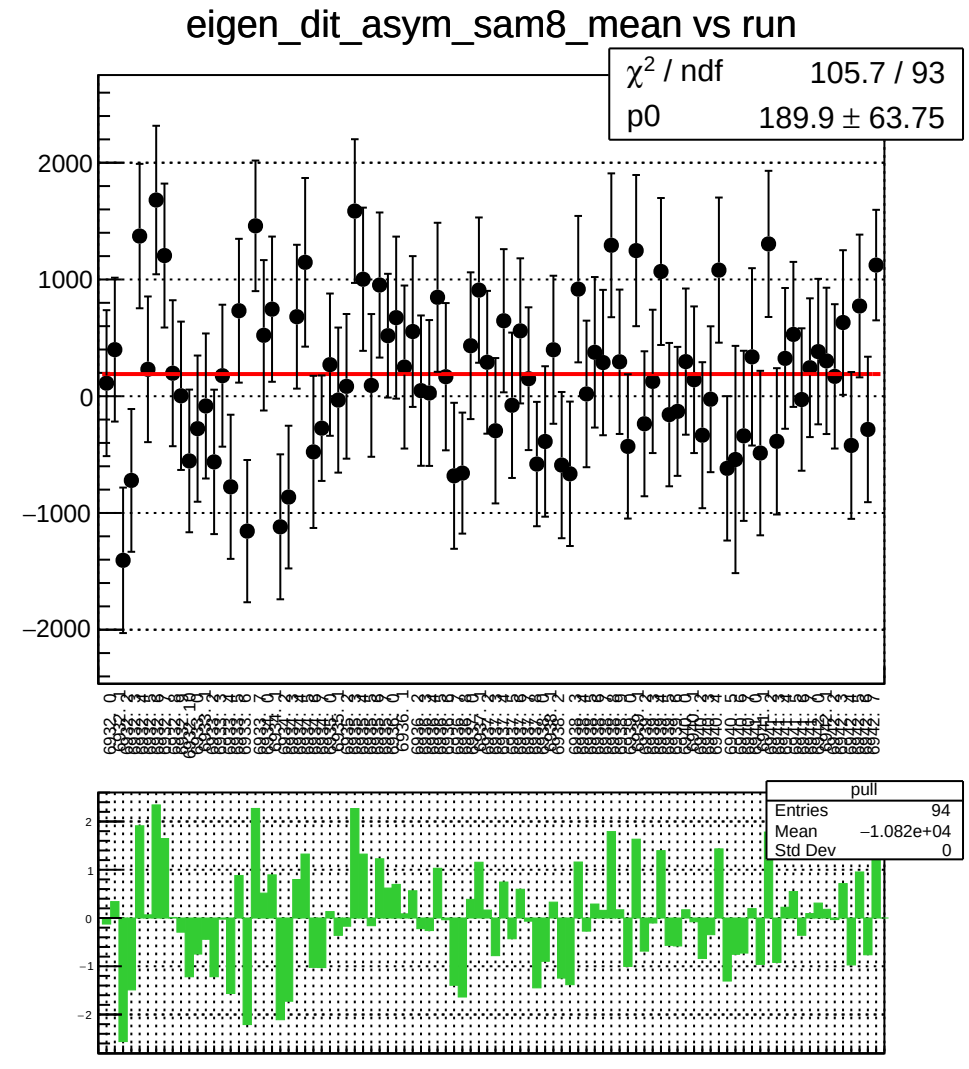

pull1D
Entries 94
Mean −0.0001215
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

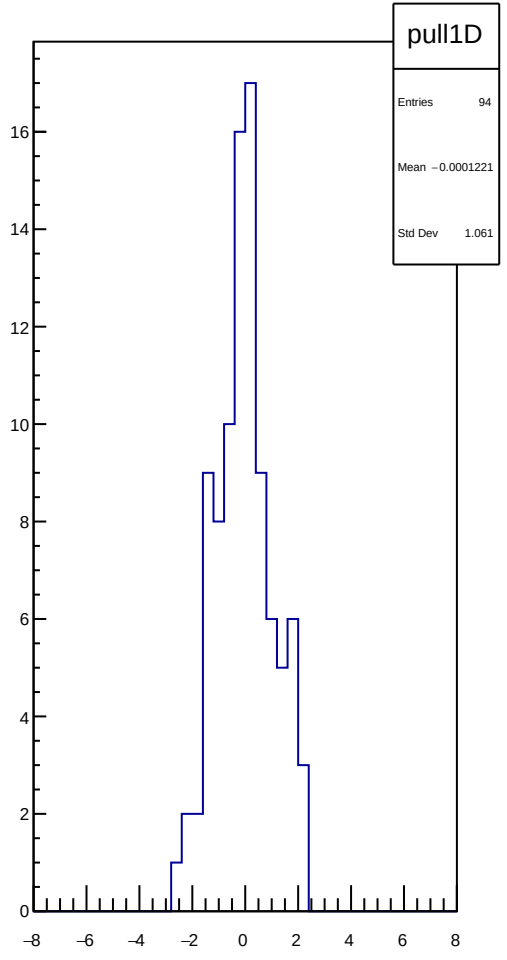

dit_asym_sam8_rms vs run
χ^2 / ndf 6431 / 93
p0 59.76 ± 0.04508
95
90
85
80
75
70
65
60
55

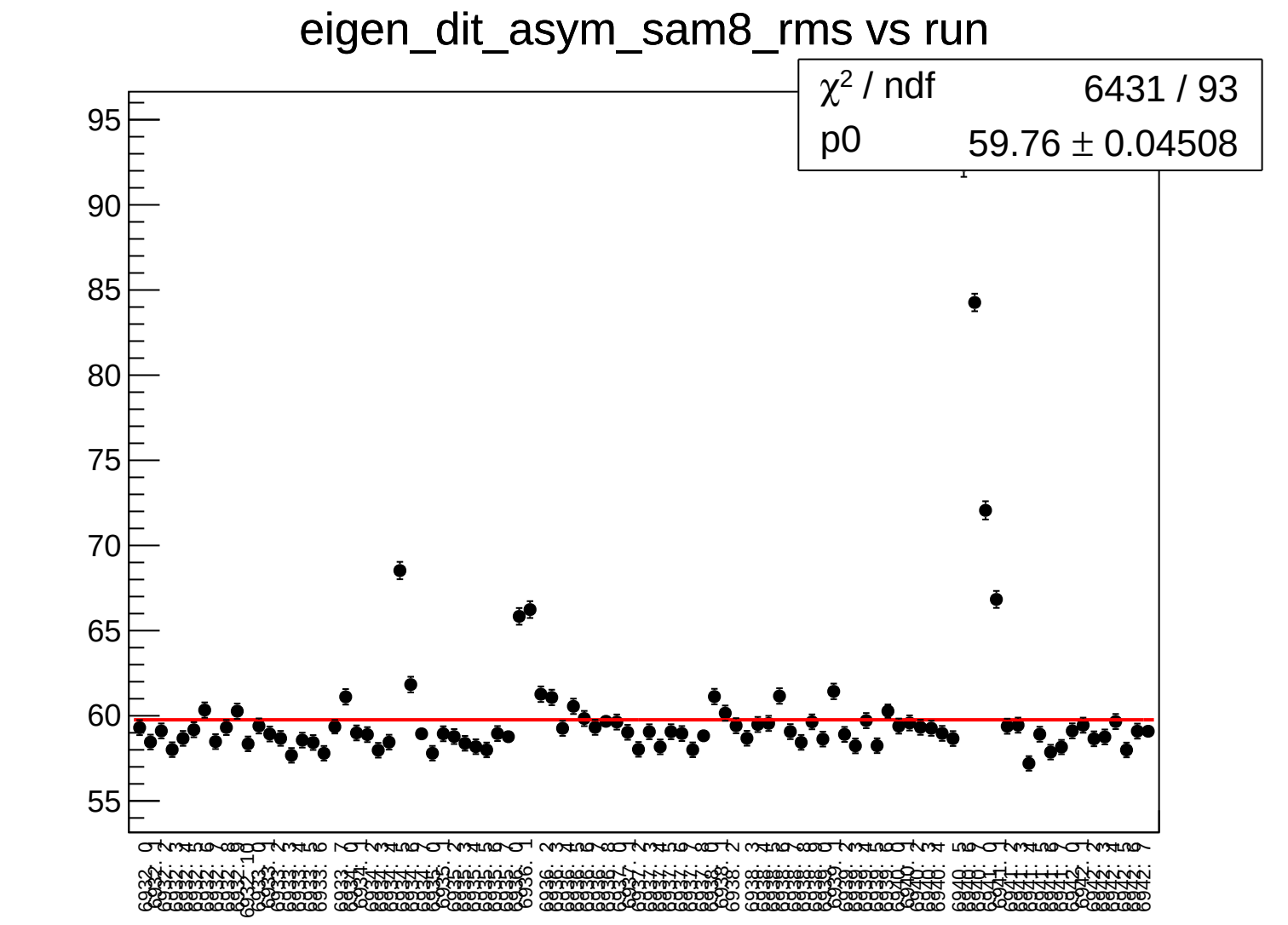

asym_sam8_dit_correction_mean vs run
χ² / ndf 83.3 / 93
p0 −76.04 ± 342.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −411.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

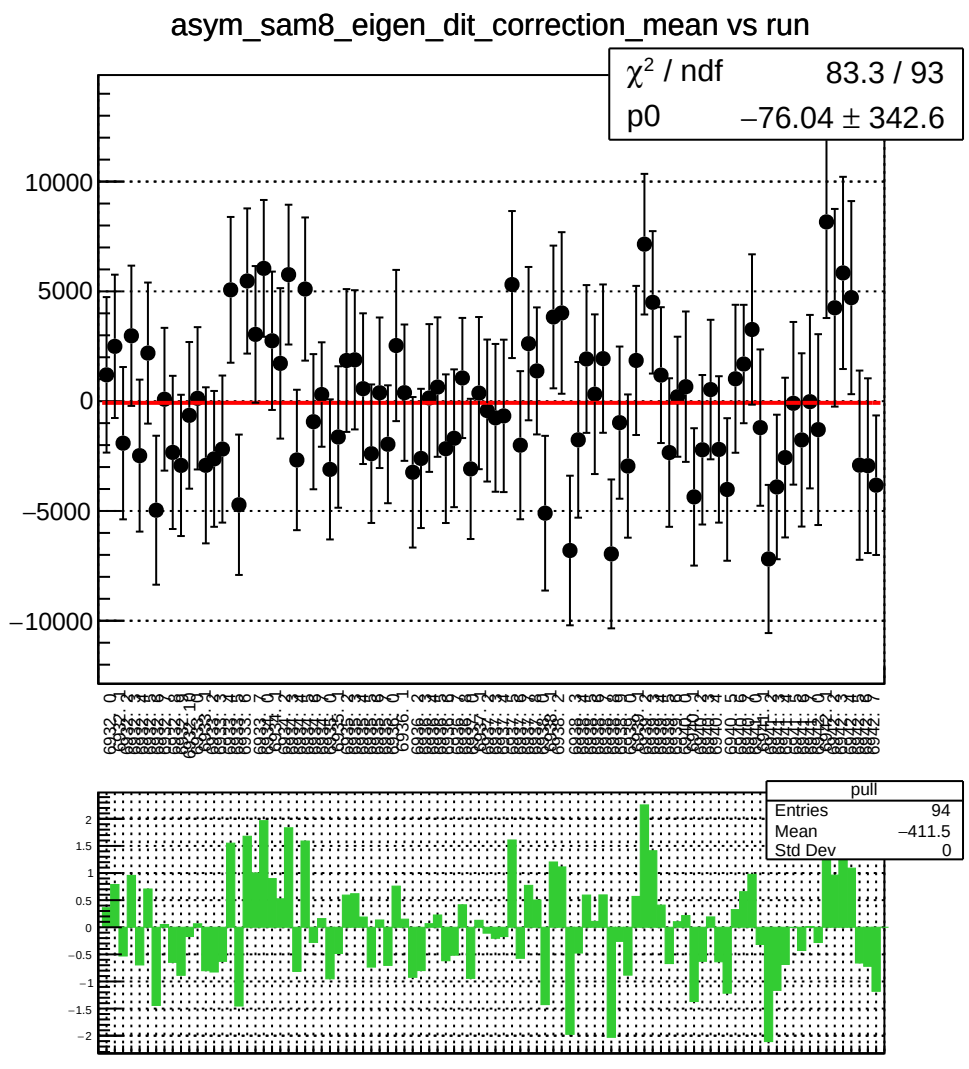

pull1D
Entries 94
Mean 0.003244
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

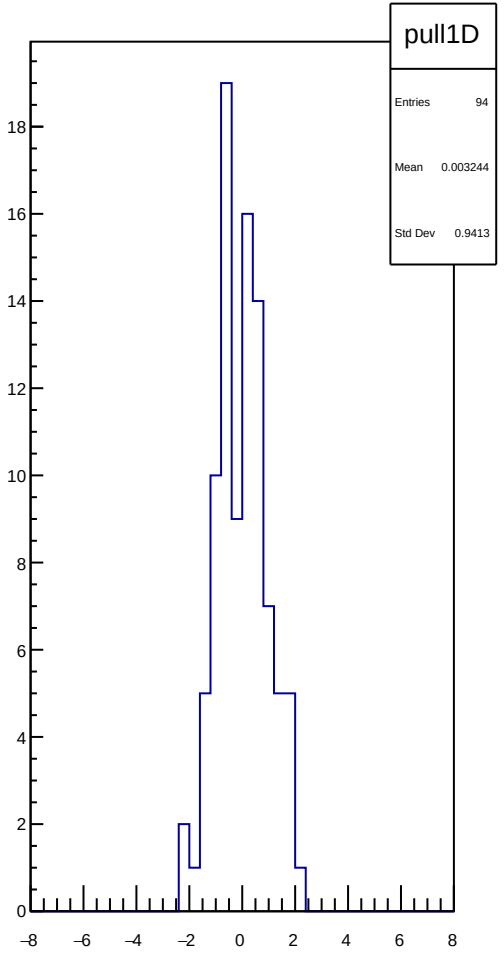

asym_sam8_dit_correction_rms vs run
χ² / ndf 1.166e+04 / 93
p0 320.6 ± 0.2422
440
420
400
380
360
340
320
300
280

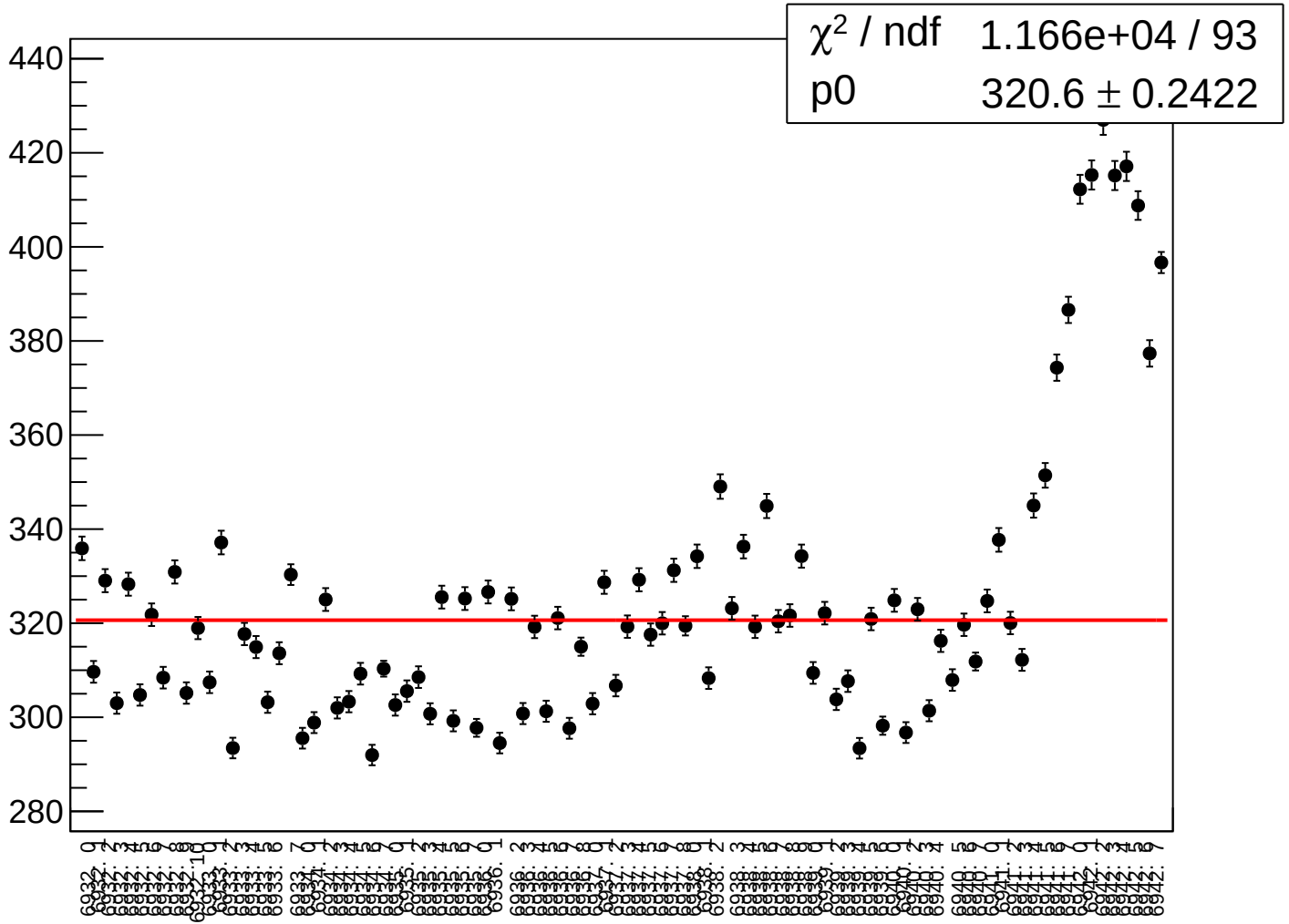

eigen_dit_asym_sam8_mean vs run
χ² / ndf 105.7 / 93
p0 189.9 ± 63.75
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −1.082e+04
Std Dev 0
2
1
0
−1
−2

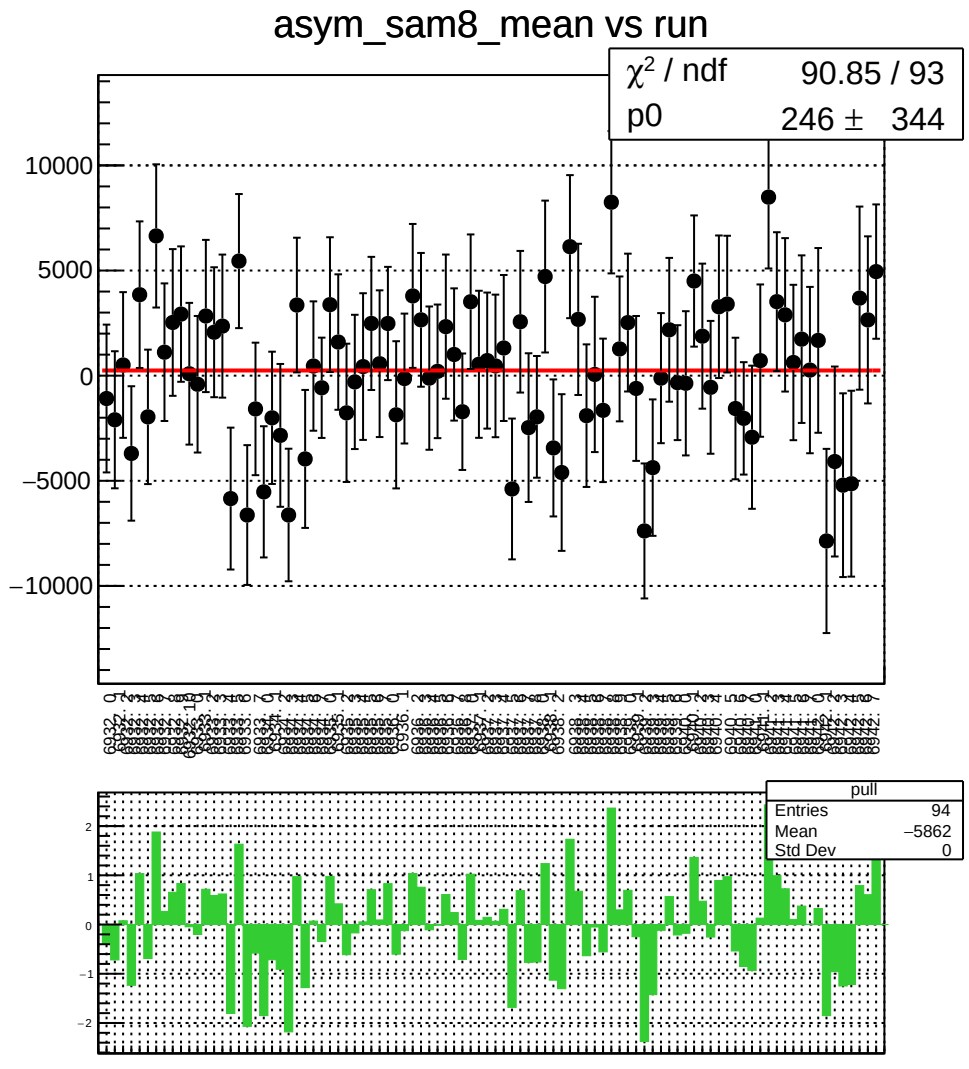

pull1D
Entries 94
Mean −0.0001221
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

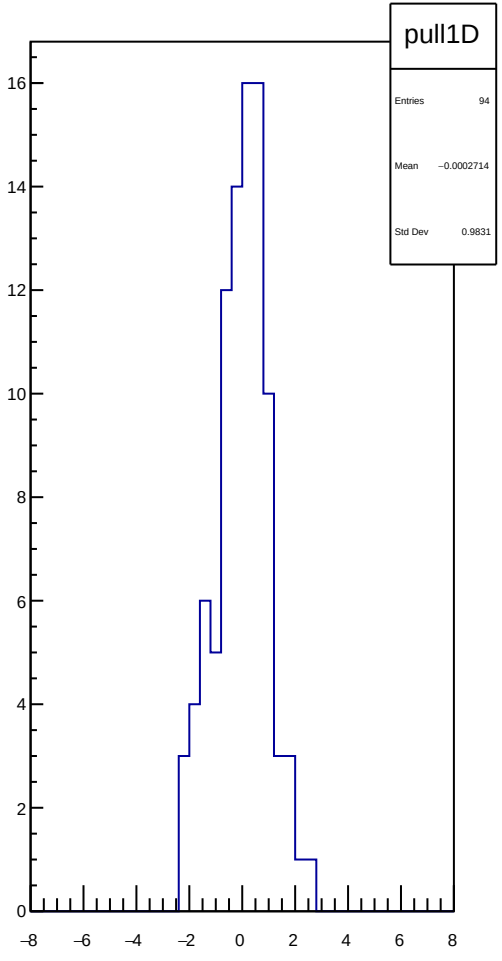

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 6431 / 93
p0 59.76 ± 0.04508
95
90
85
80
75
70
65
60
55

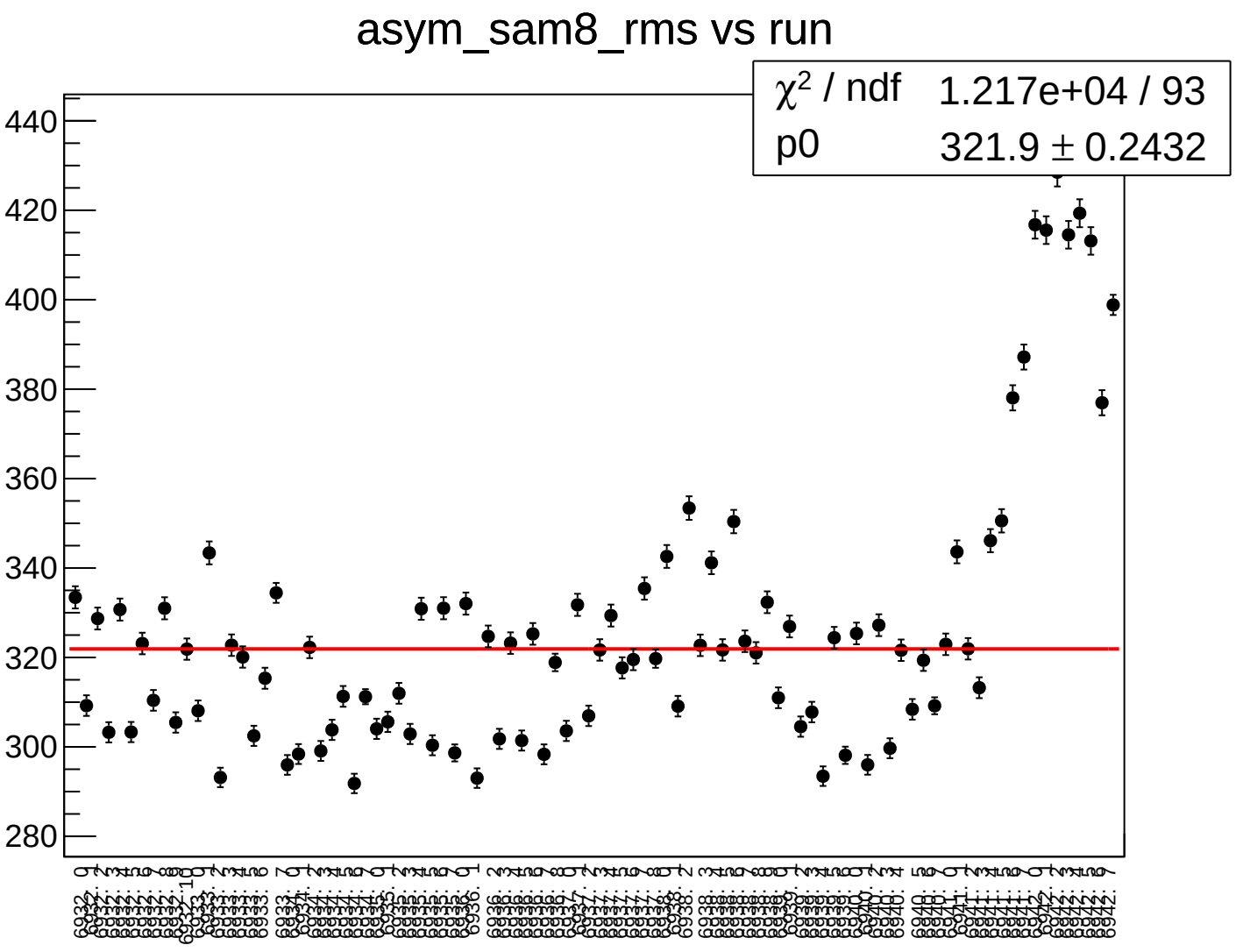

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 83.3 / 93
p0 −76.04 ± 342.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −411.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

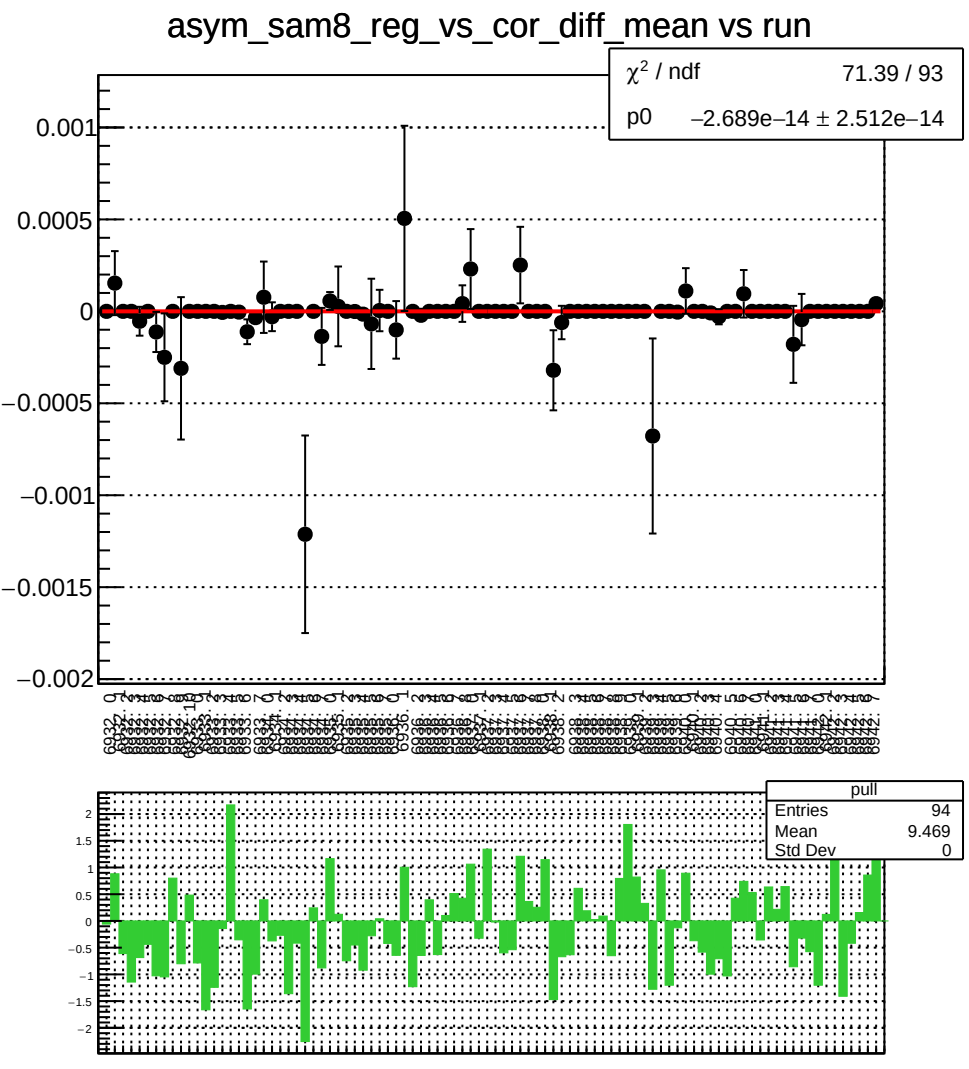

pull1D
Entries 94
Mean 0.003244
Std Dev 0.9413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

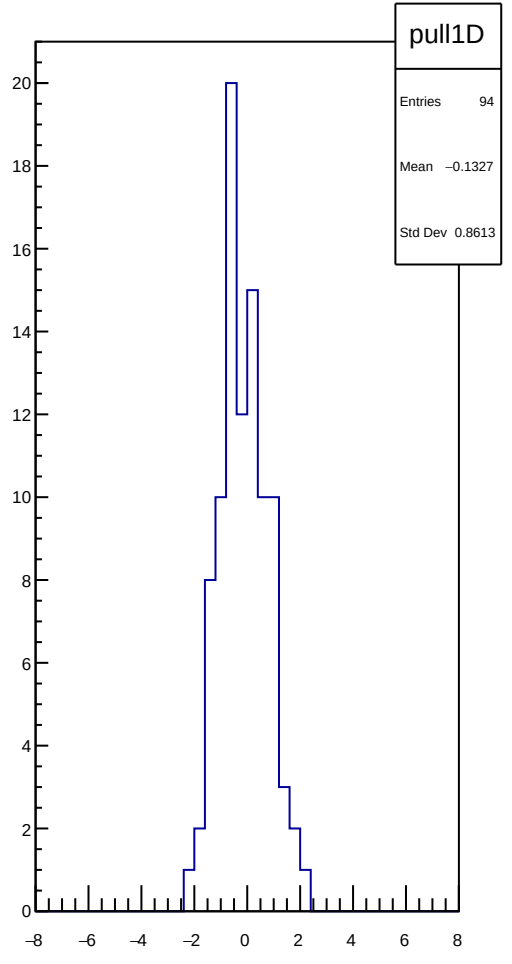

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 1.166e+04 / 93
p0 320.6 ± 0.2422
440
420
400
380
360
340
320
300
280

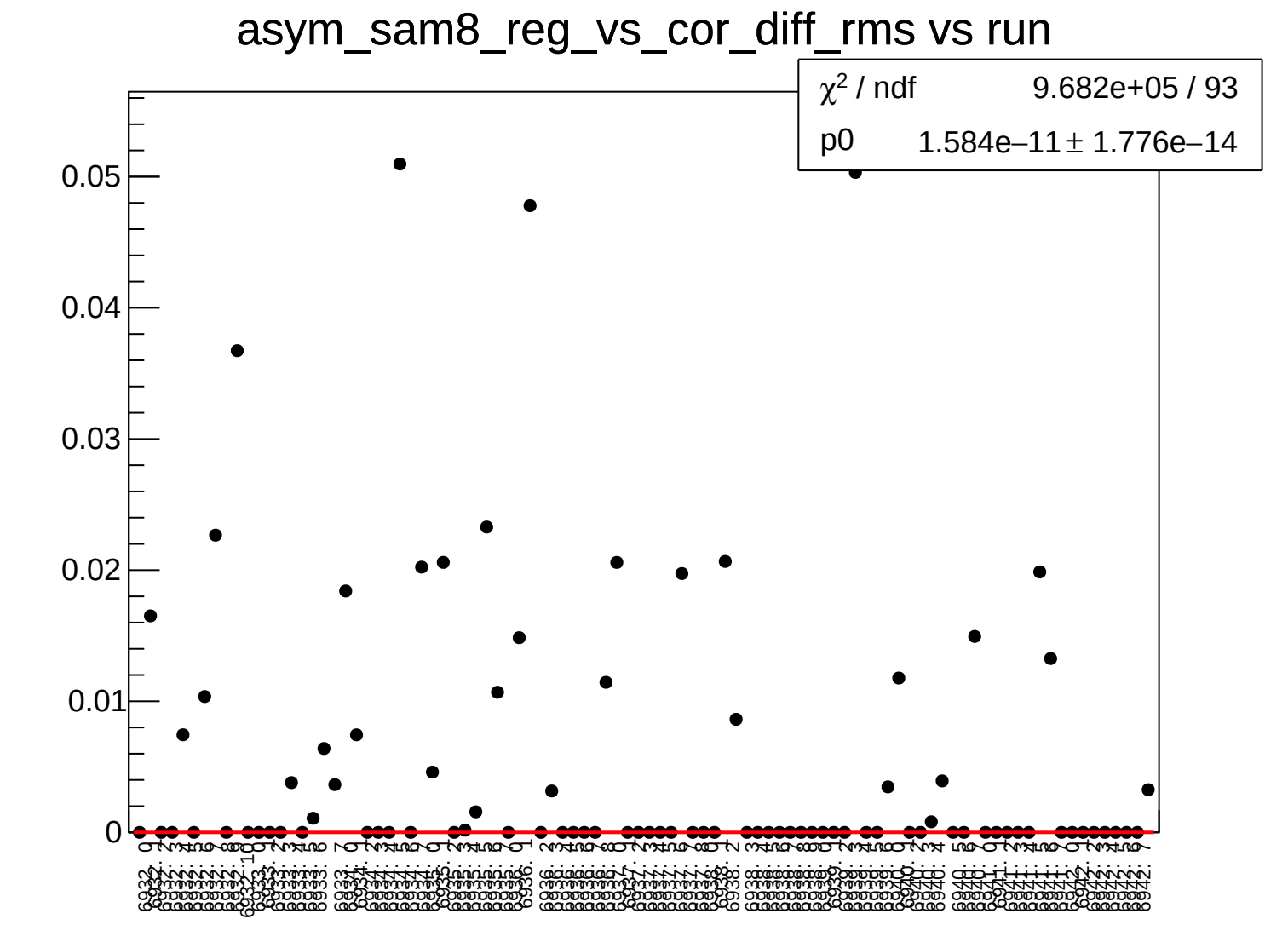

asym_sam8_mean vs run
χ² / ndf 90.85 / 93
p0 246 ± 344
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −5862
Std Dev 0
2
1
0
−1
−2

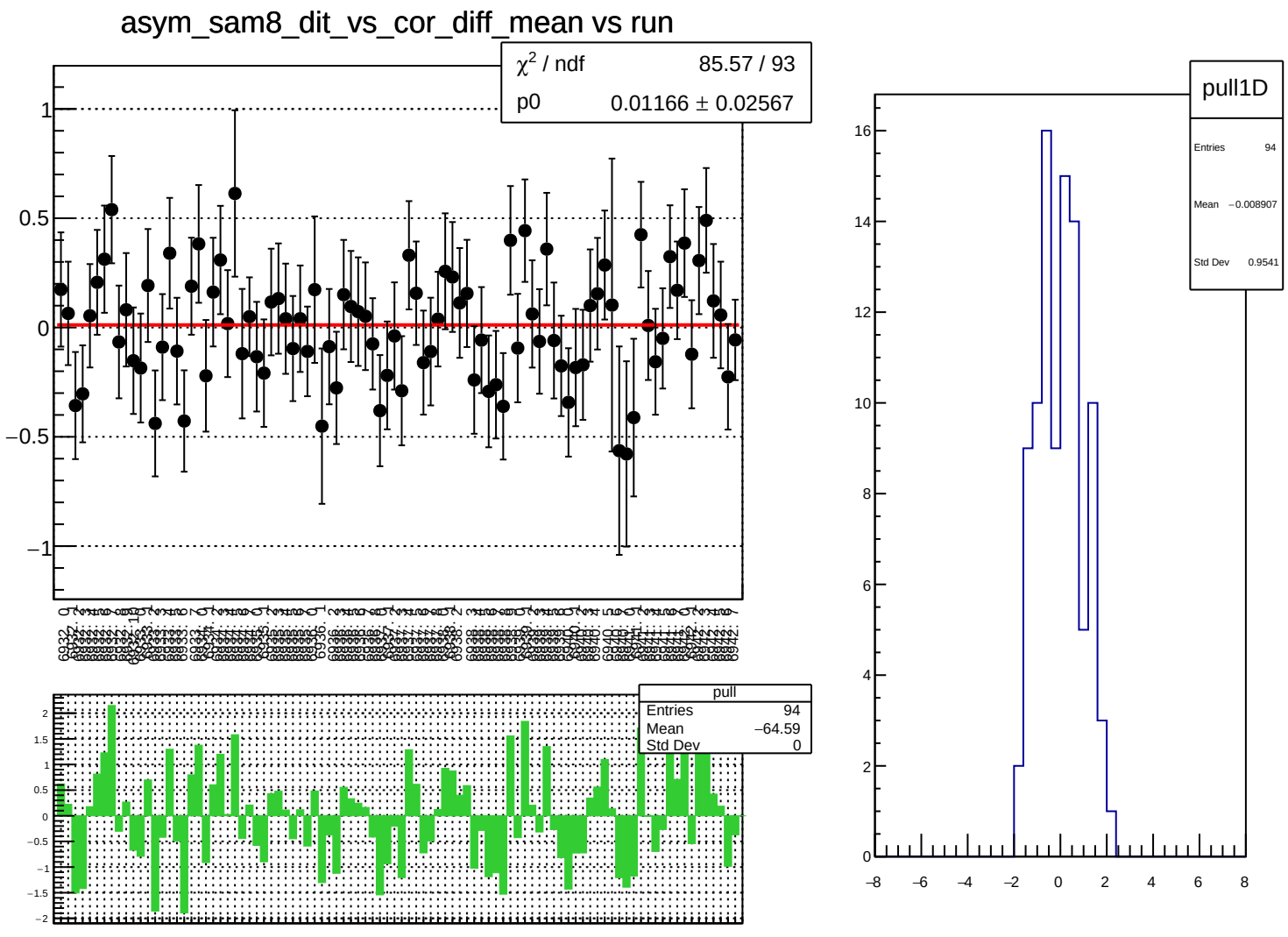

pull1D
Entries 94
Mean −0.0002714
Std Dev 0.9831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

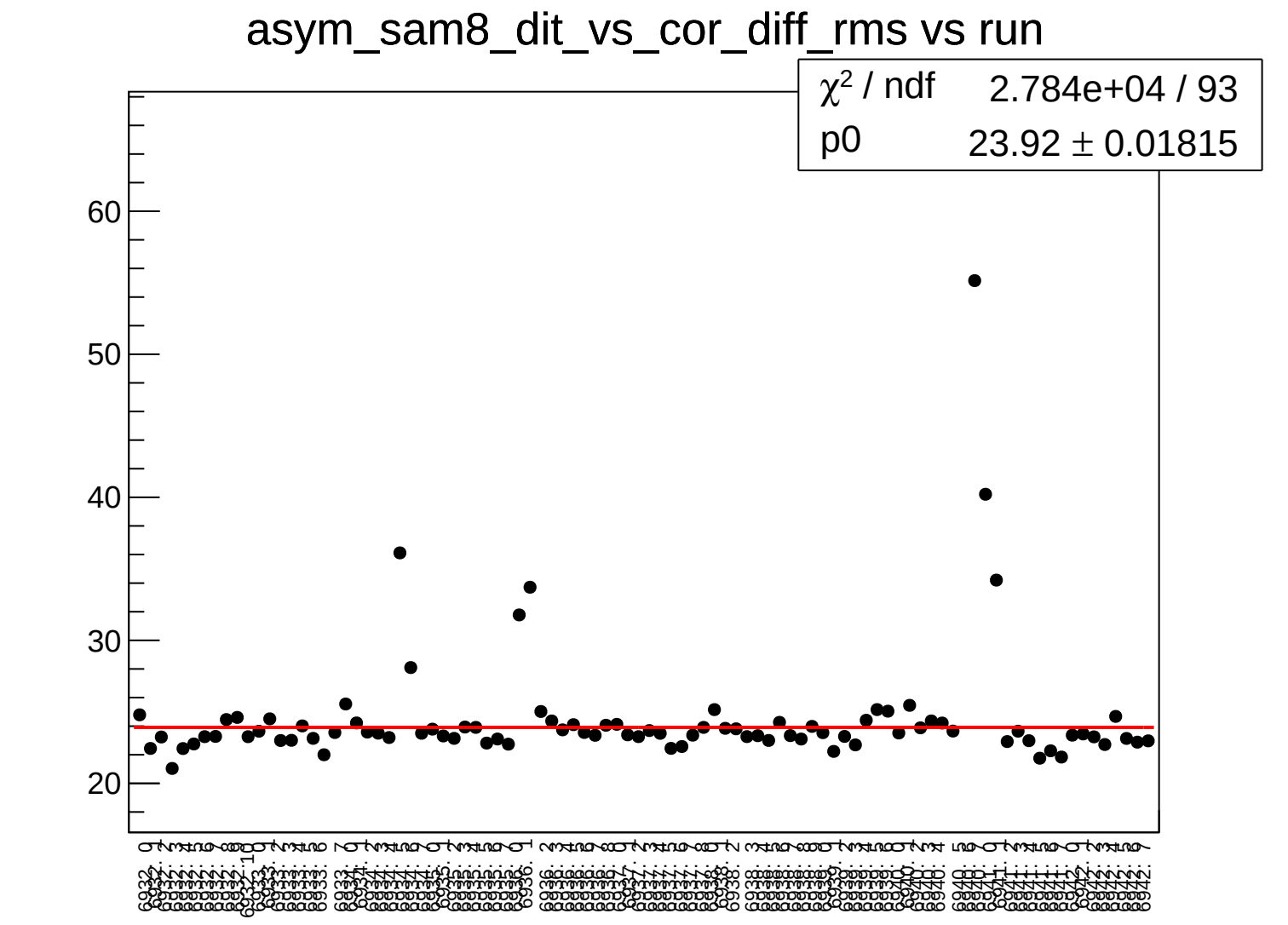

asym_sam8_rms vs run
χ² / ndf 1.217e+04 / 93
p0 321.9 ± 0.2432
440
420
400
380
360
340
320
300
280

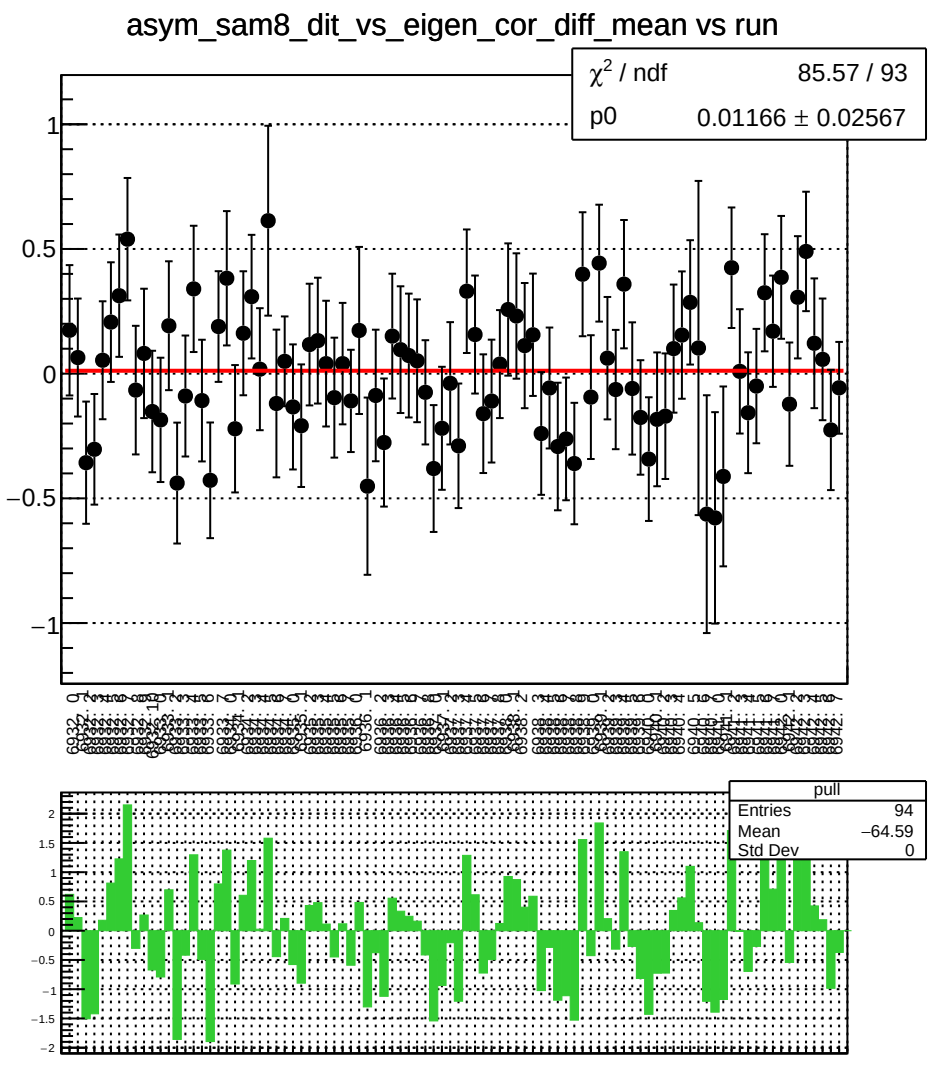

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 71.39 / 93
p0 −2.689e−14 ± 2.512e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 9.469
Std Dev 0

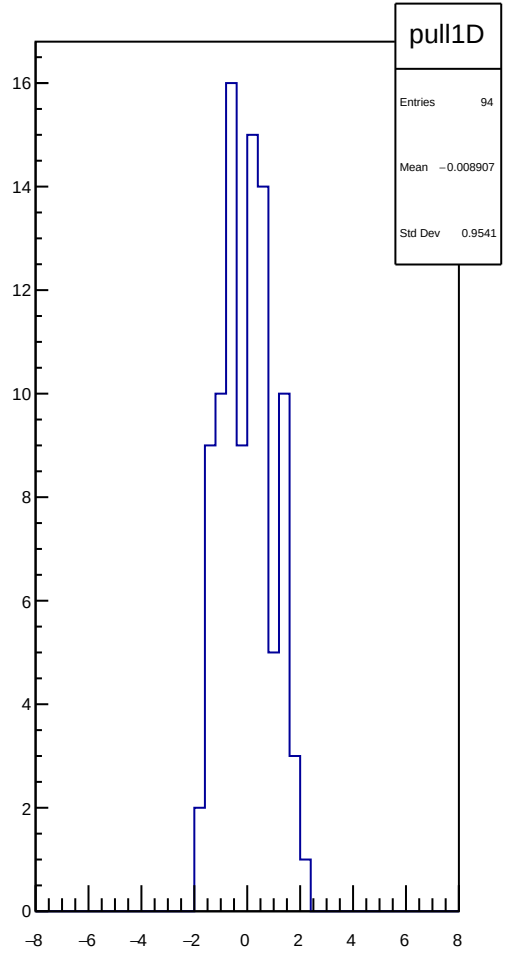

pull1D
Entries 94
Mean −0.1327
Std Dev 0.8613
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

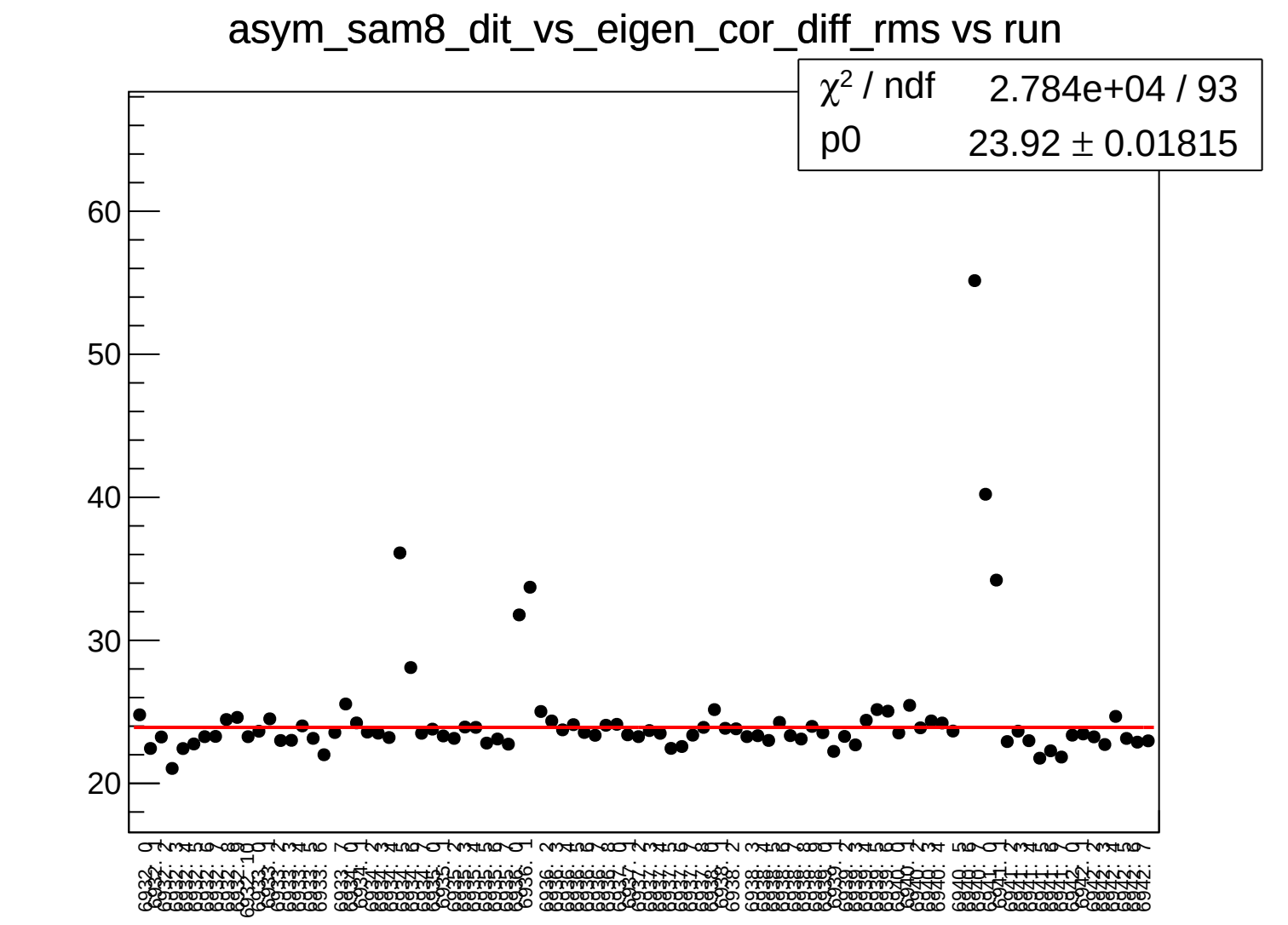

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 9.682e+05 / 93
p0 1.584e−11 ± 1.776e−14
0.05
0.04
0.03
0.02
0.01
0

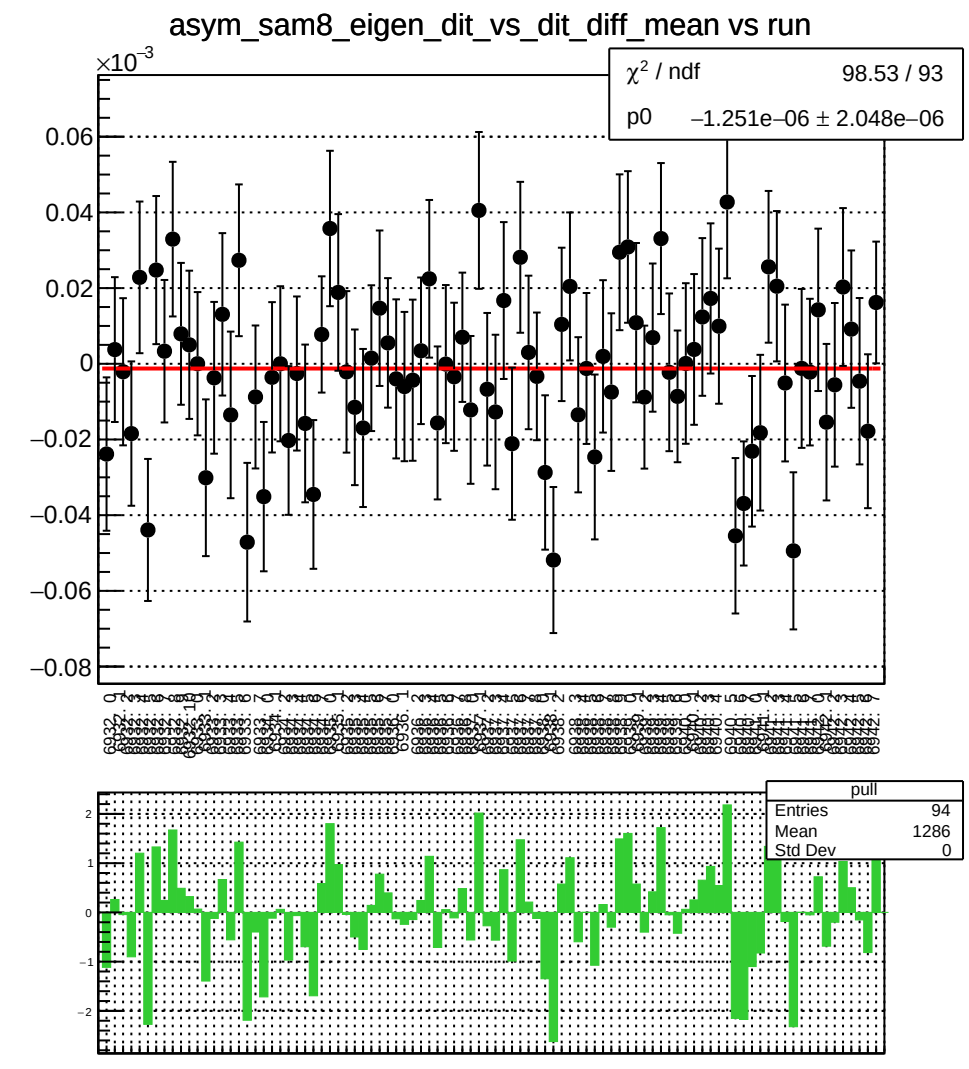

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 85.57 / 93
p0 0.01166 ± 0.02567
pull
Entries 94
Mean −64.59
Std Dev 0
pull1D
Entries 94
Mean −0.008907
Std Dev 0.9541

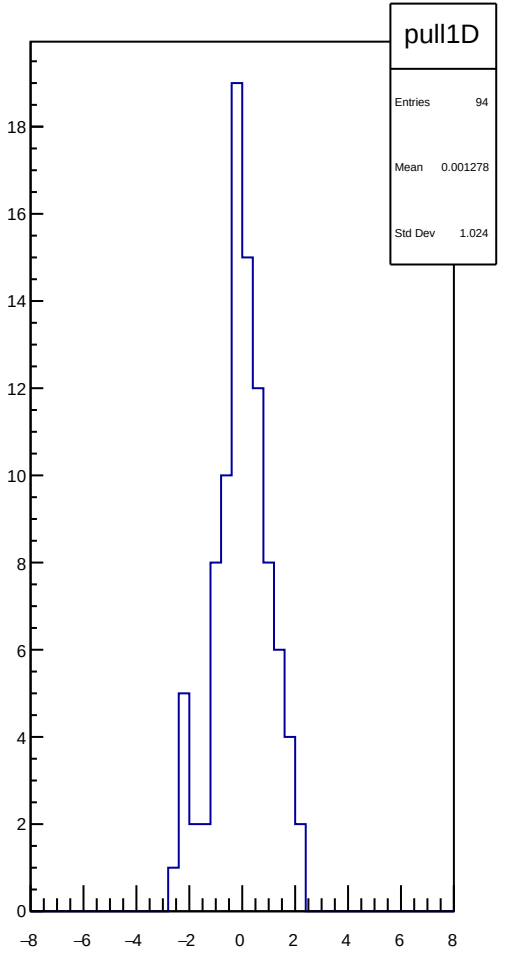

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 93
p0 23.92 ± 0.01815
60
50
40
30
20

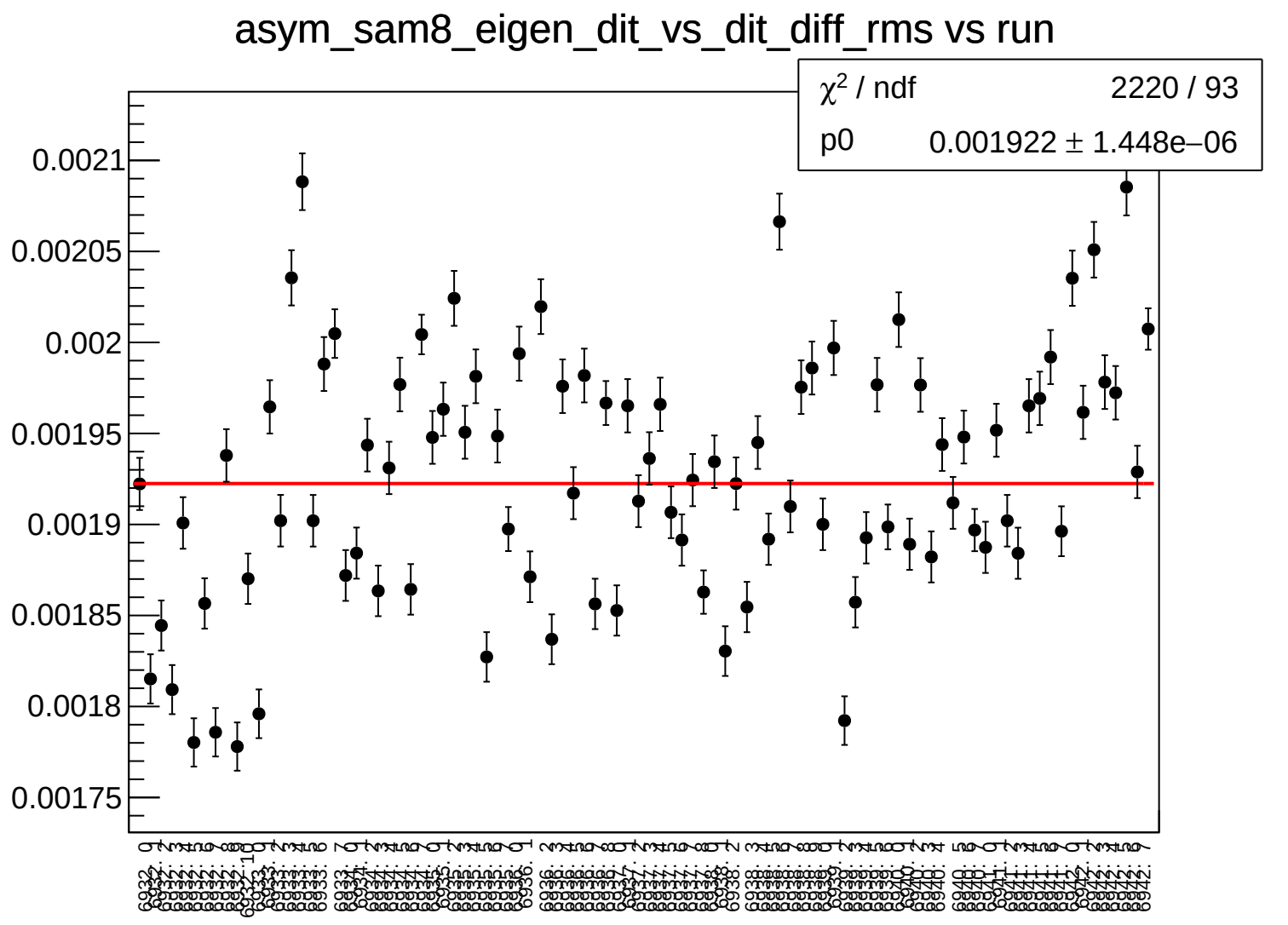

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.57 / 93
p0 0.01166 ± 0.02567
pull
Entries 94
Mean −64.59
Std Dev 0

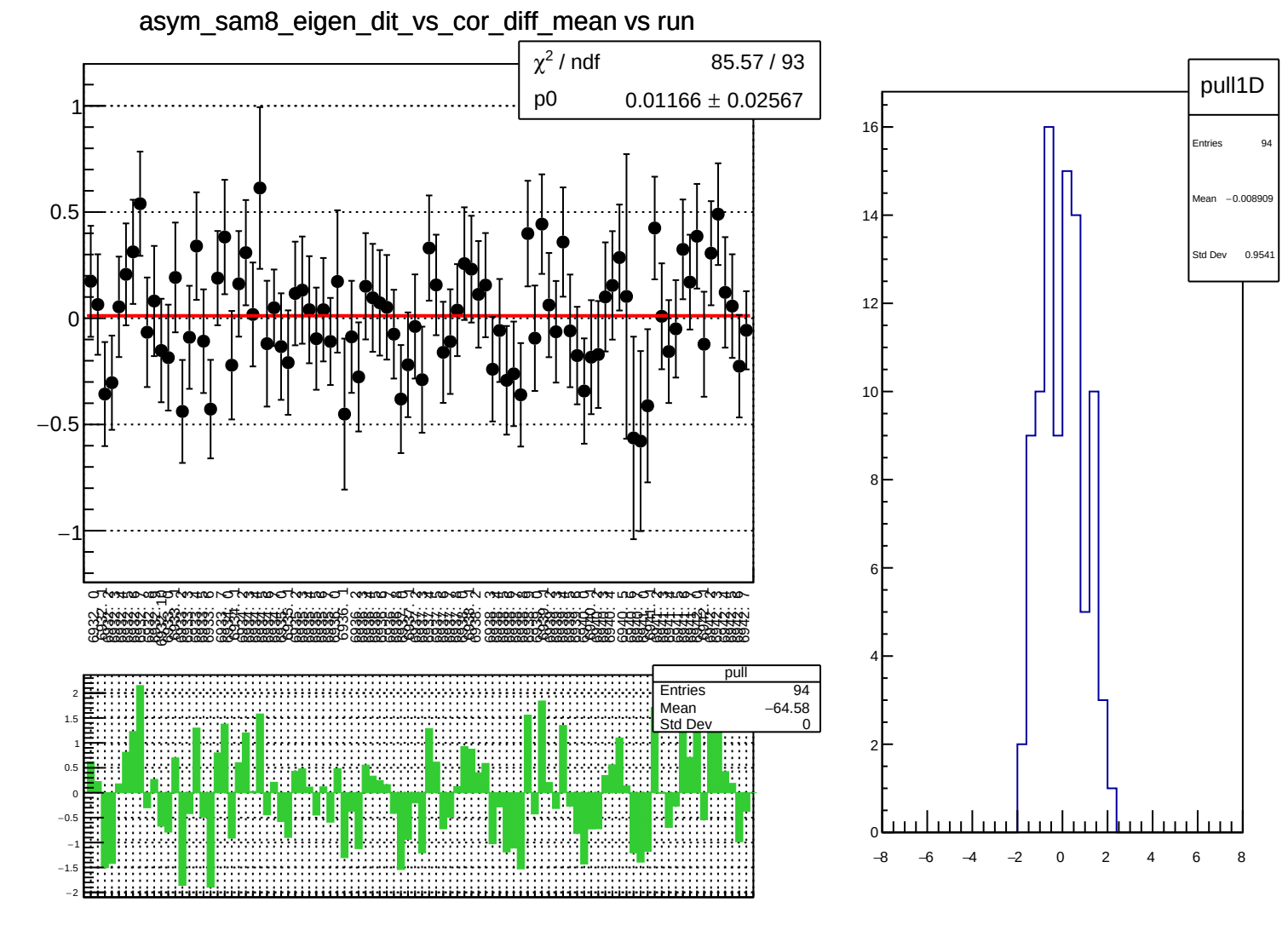

pull1D
Entries 94
Mean −0.008907
Std Dev 0.9541

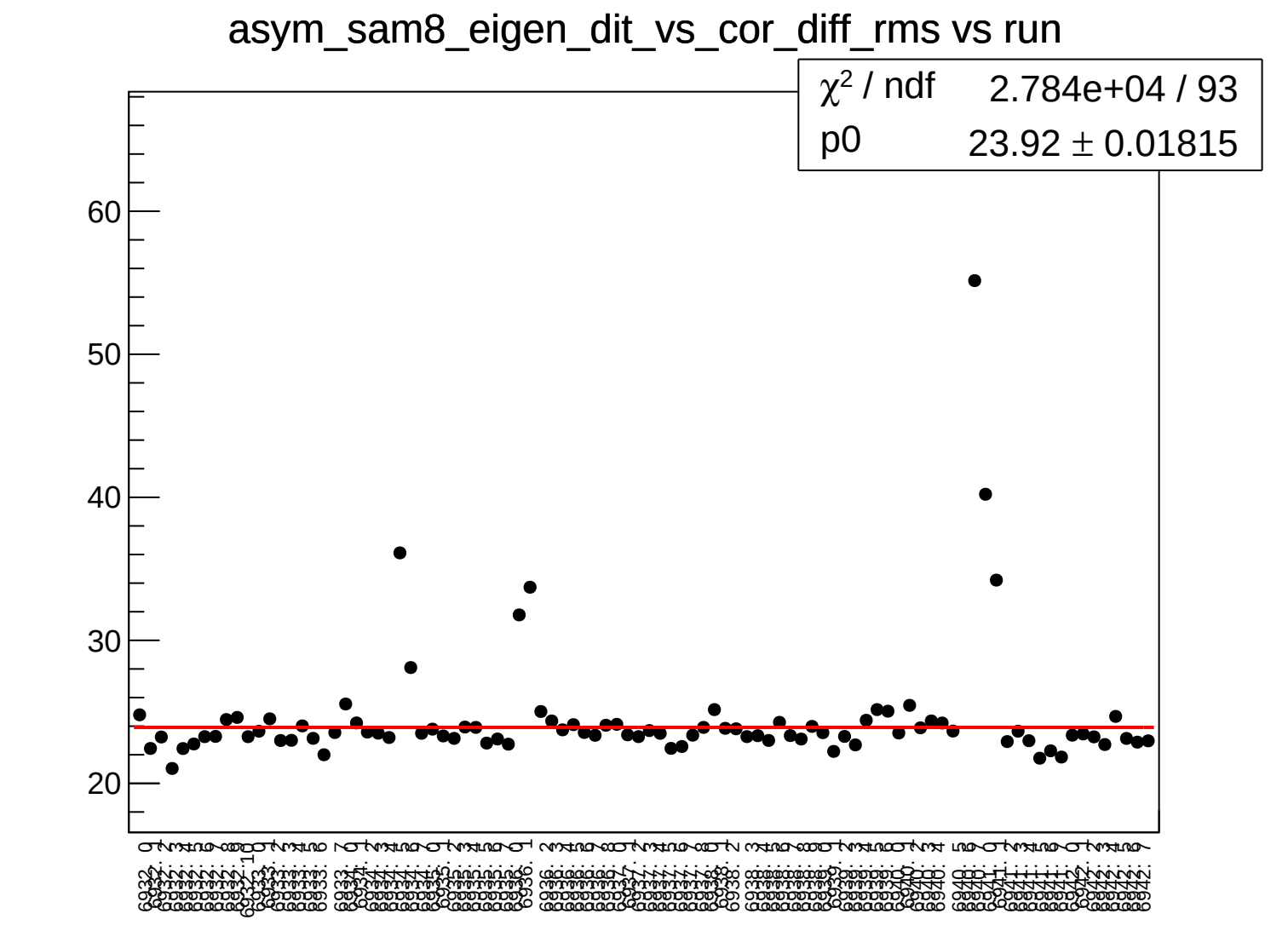

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.784e+04 / 93
p0 23.92 ± 0.01815
60
50
40
30
20

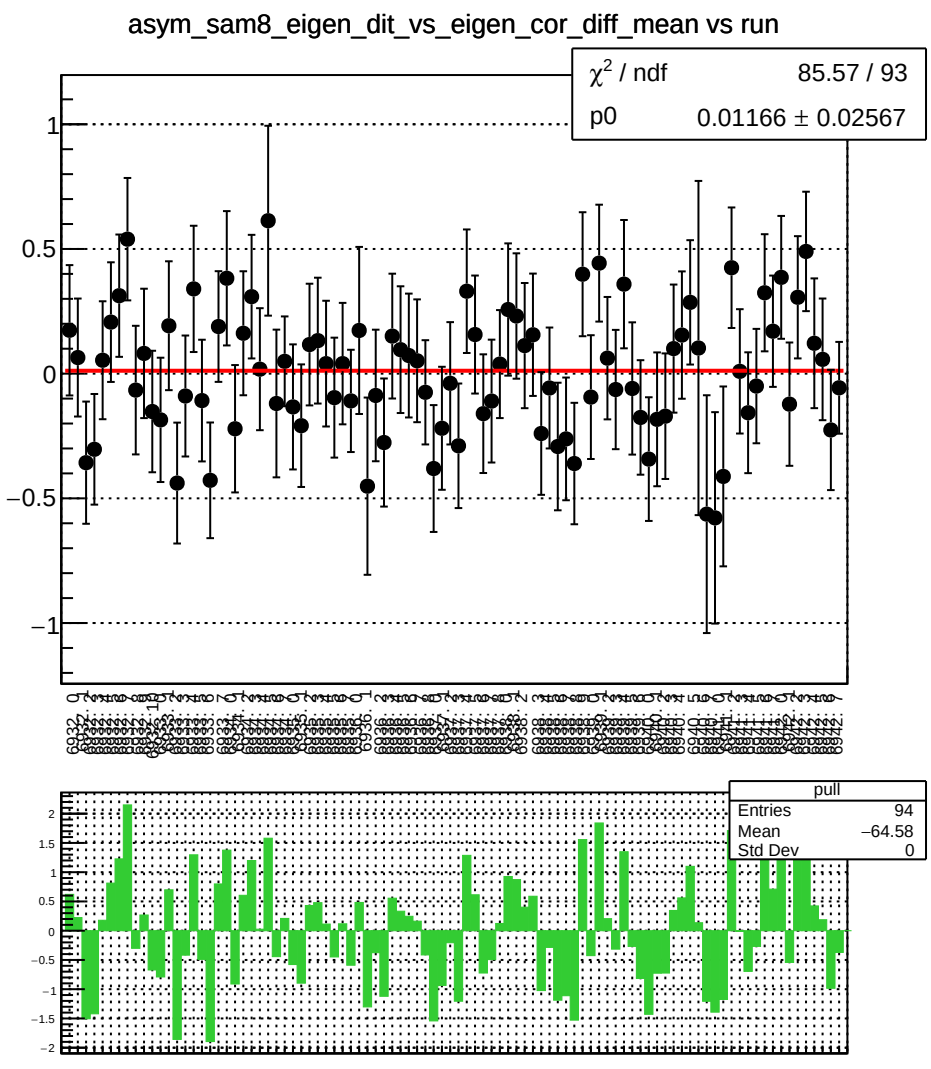

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.53 / 93
p0 −1.251e−06 ± 2.048e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean 1286
Std Dev 0
2
1
0
−1
−2

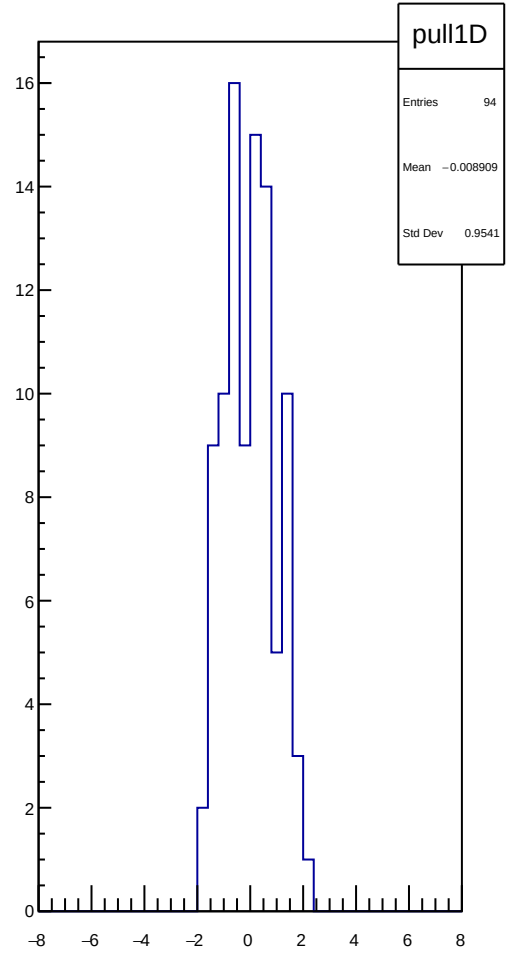

pull1D
Entries 94
Mean 0.001278
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

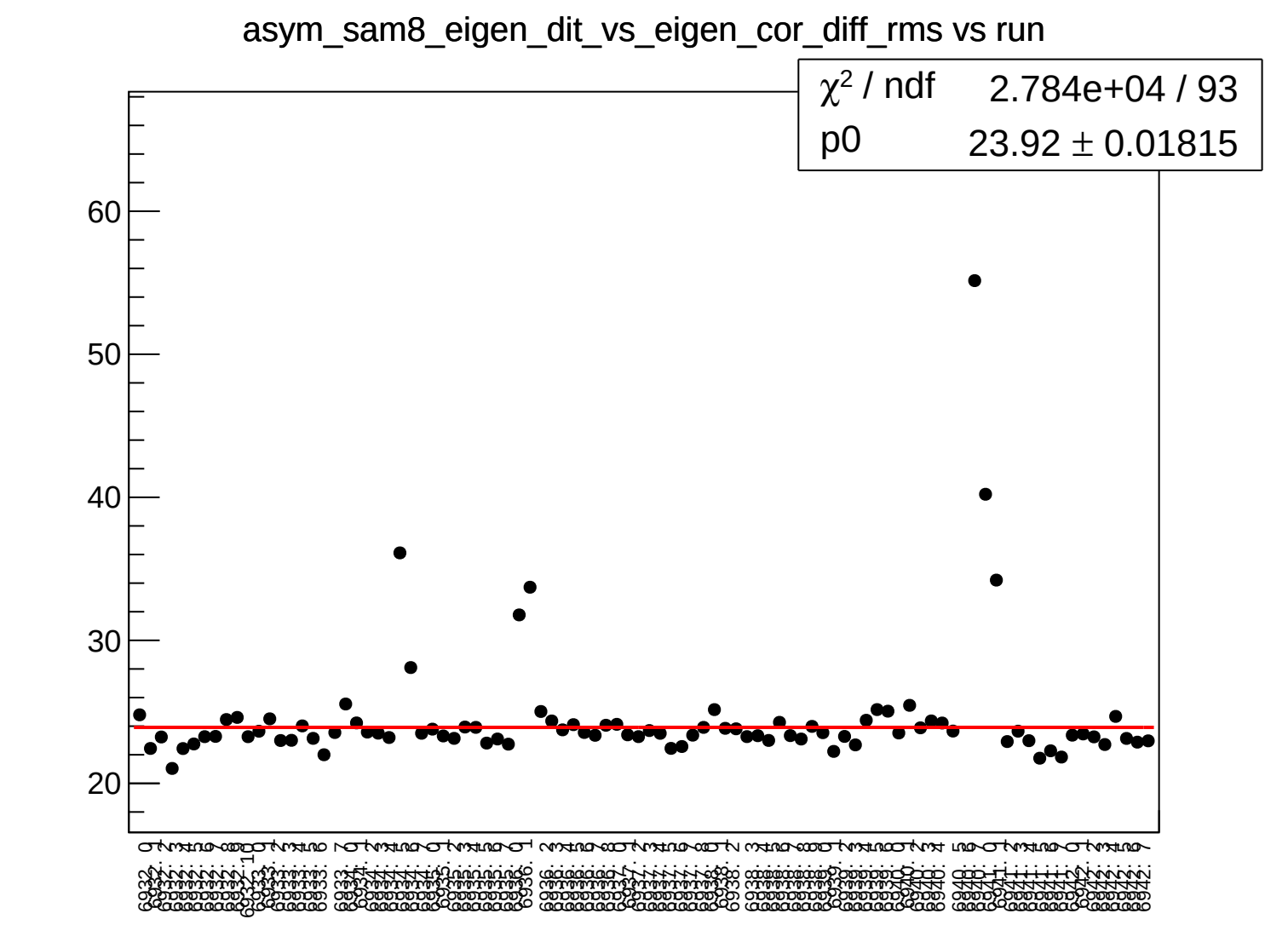

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2220 / 93
p0 0.001922 ± 1.448e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

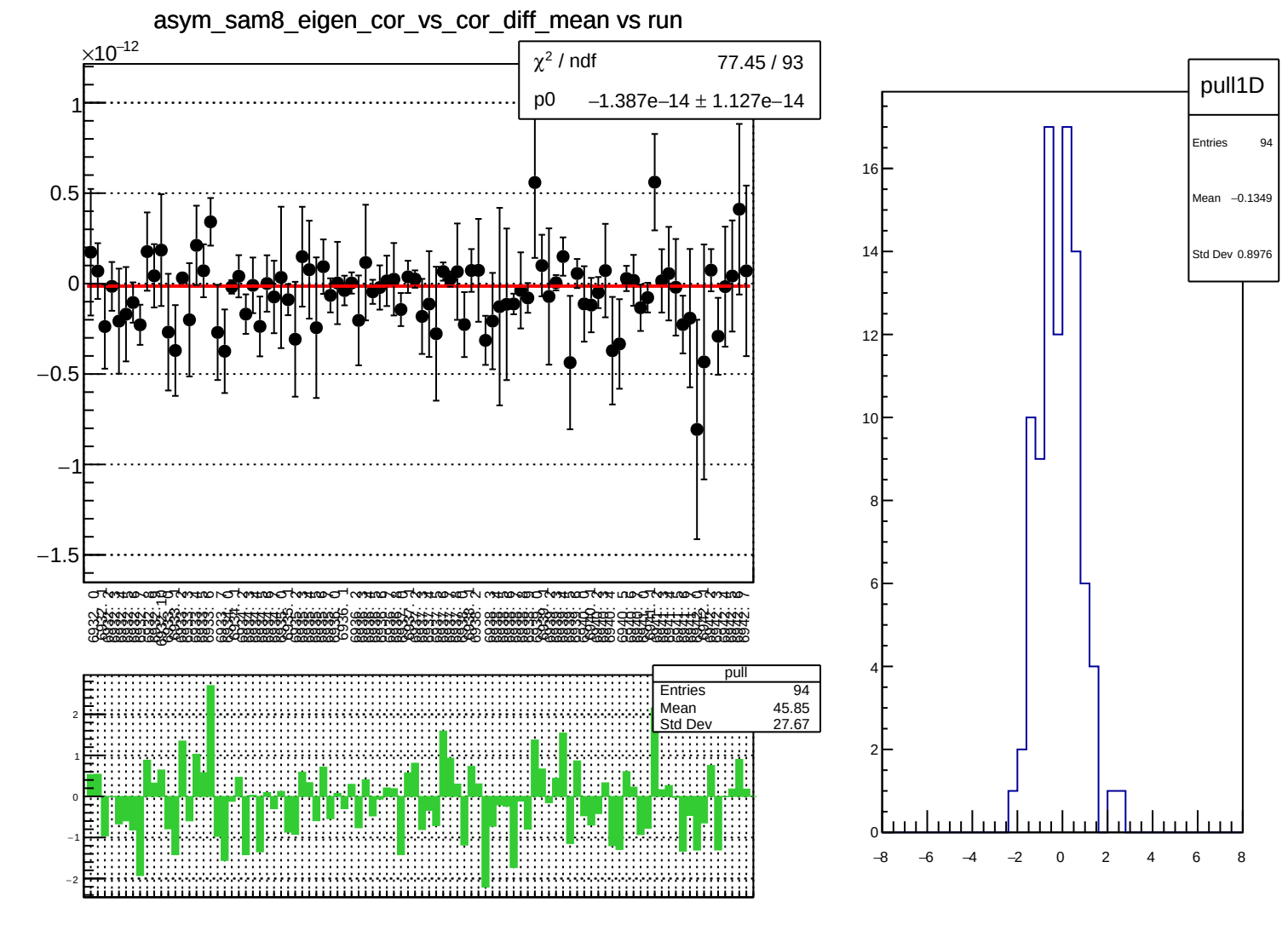

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.57 / 93
p0 0.01166 ± 0.02567
pull
Entries 94
Mean −64.58
Std Dev 0
pull1D
Entries 94
Mean −0.008909
Std Dev 0.9541

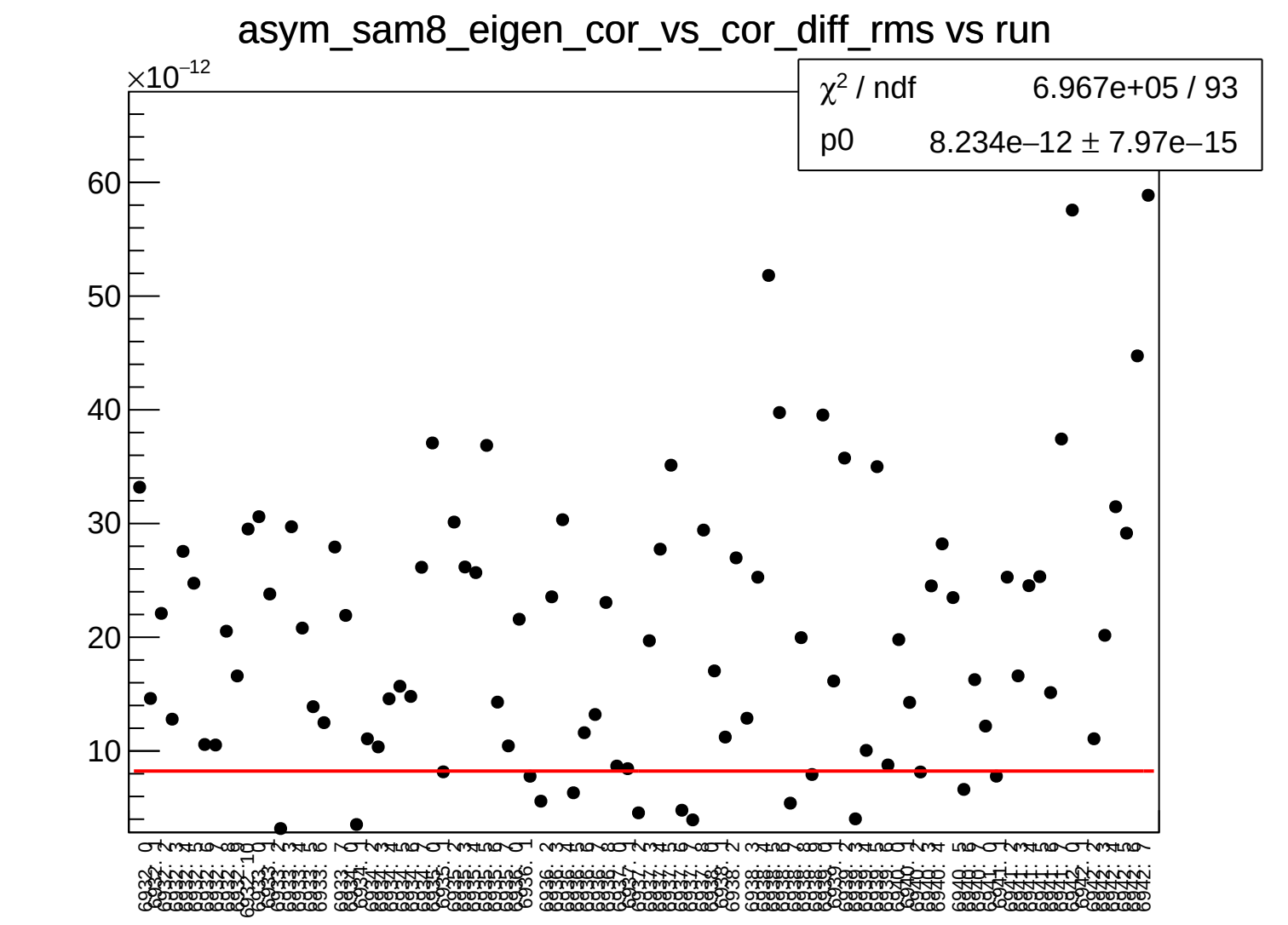

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 93
p0 23.92 ± 0.01815
60
50
40
30
20

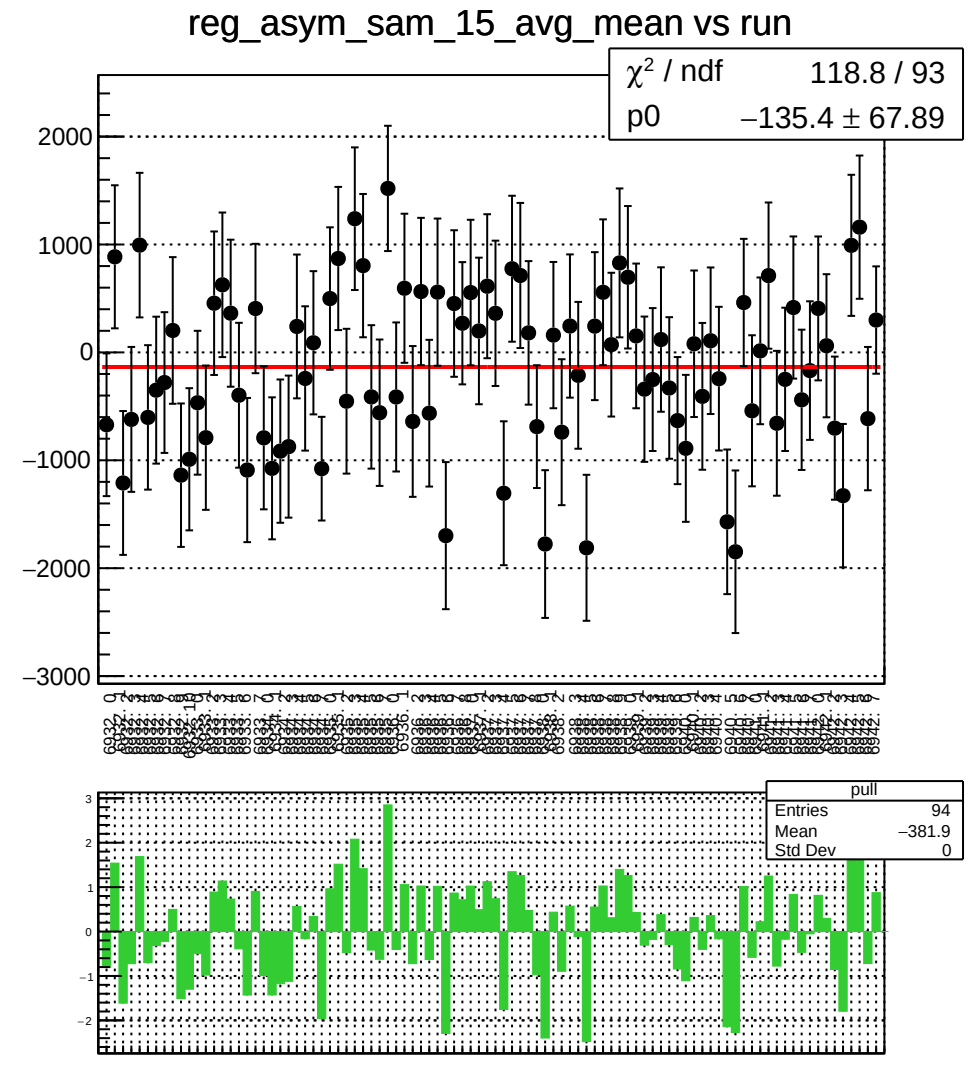

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.57 / 93
p0 0.01166 ± 0.02567
pull
Entries 94
Mean −64.58
Std Dev 0

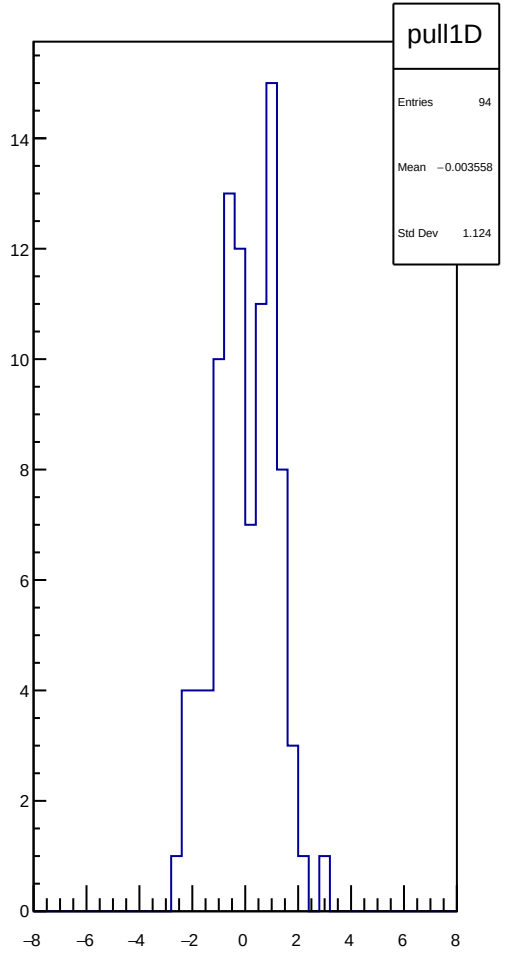

pull1D
Entries 94
Mean −0.008909
Std Dev 0.9541

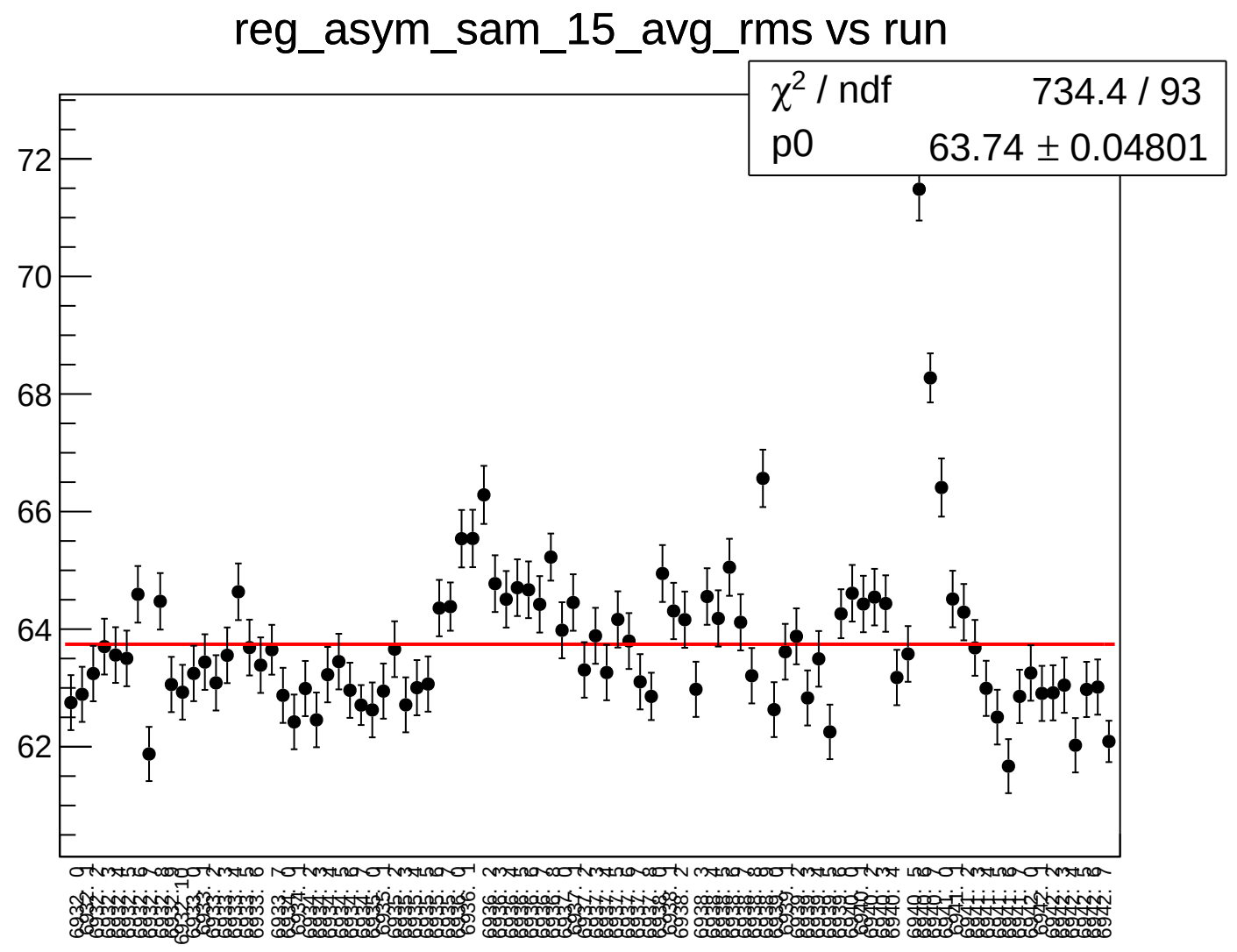

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.784e+04 / 93
p0 23.92 ± 0.01815
60
50
40
30
20

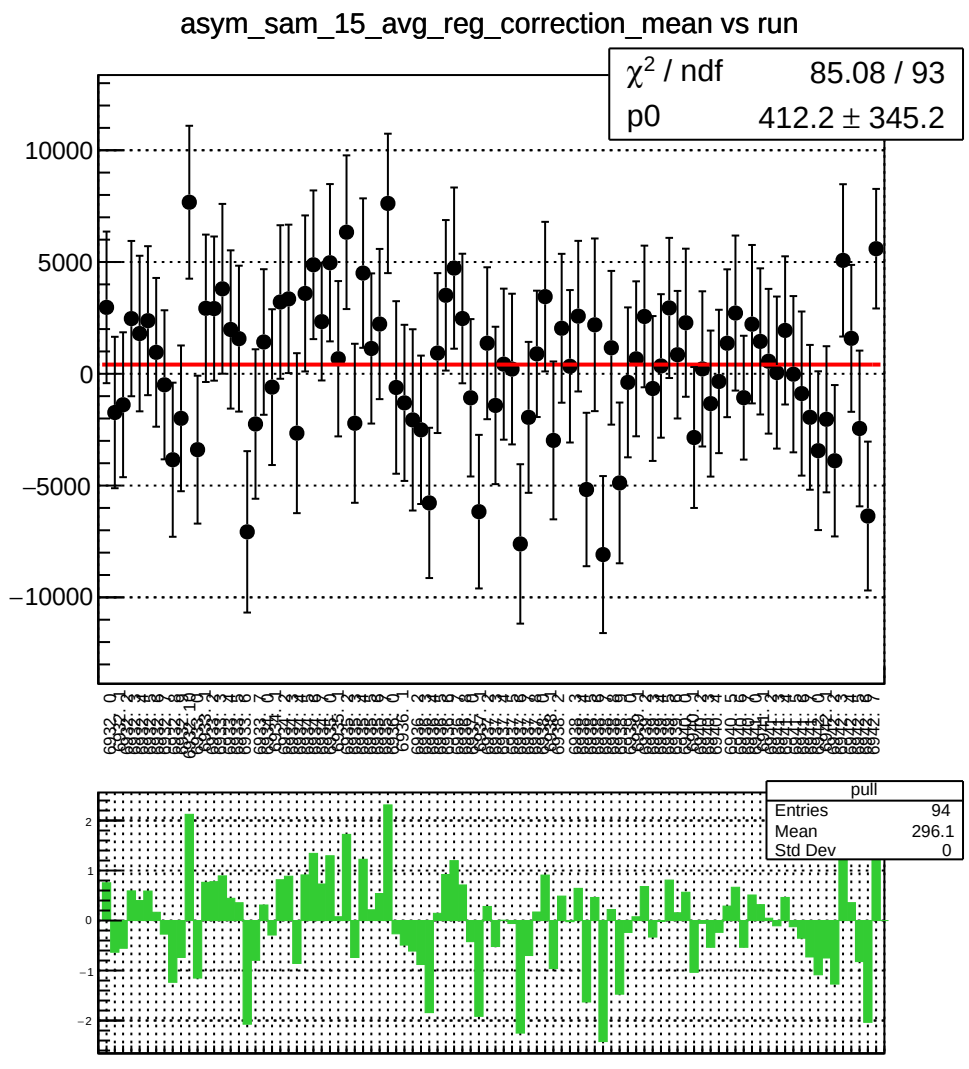

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.45 / 93
p0 −1.387e−14 ± 1.127e−14
pull
Entries 94
Mean 45.85
Std Dev 27.67
pull1D
Entries 94
Mean −0.1349
Std Dev 0.8976

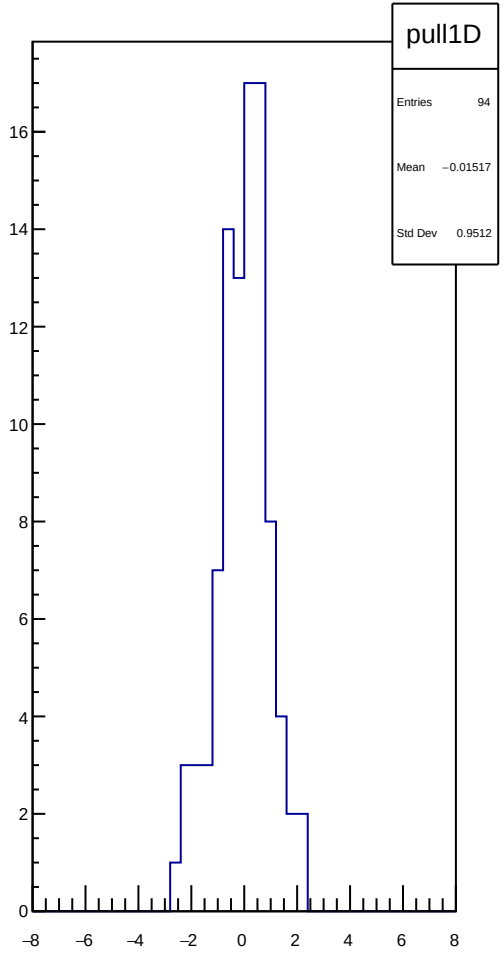

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.967e+05 / 93
p0 8.234e−12 ± 7.97e−15
60
50
40
30
20
10

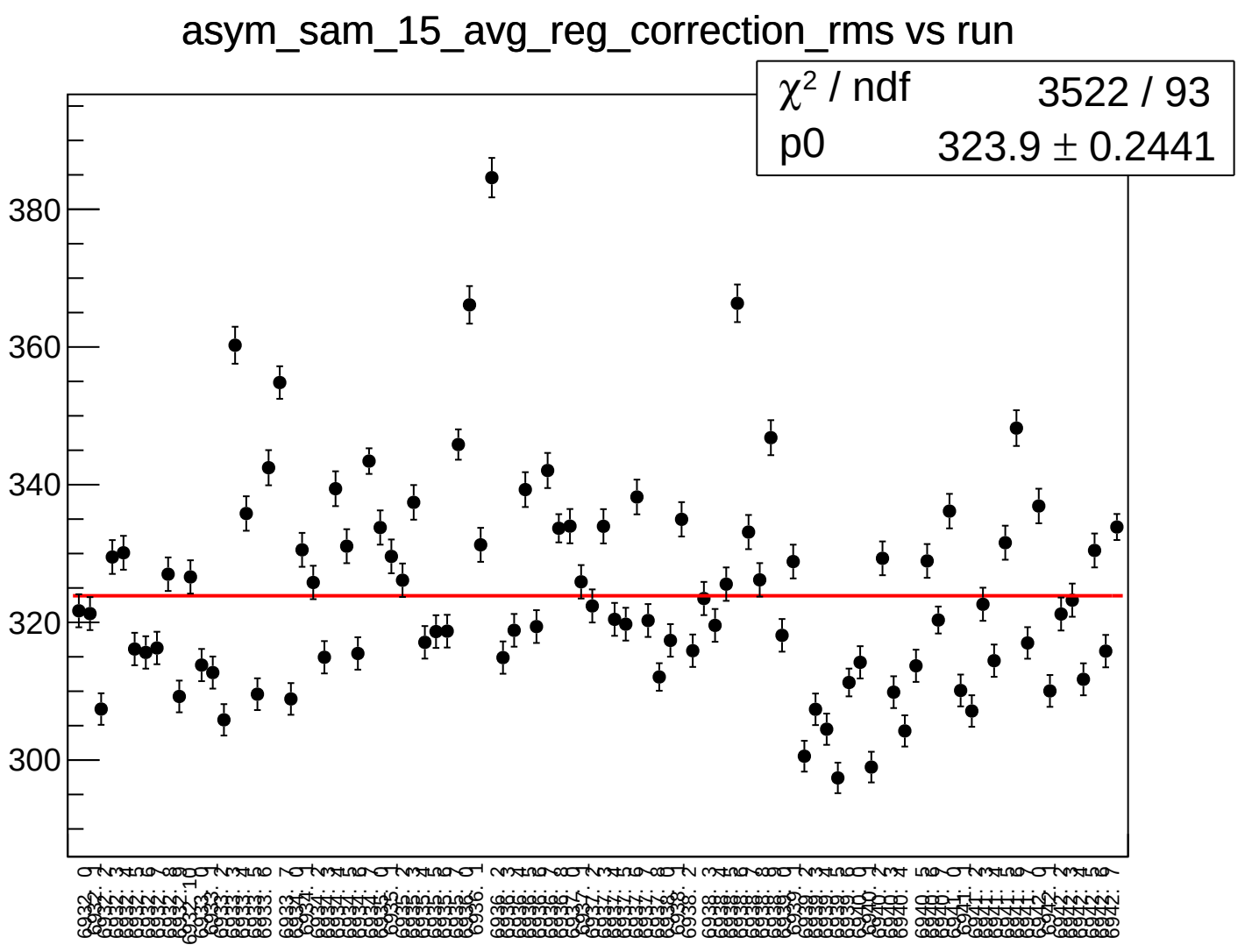

reg_asym_sam_15_avg_mean vs run
χ² / ndf 118.8 / 93
p0 −135.4 ± 67.89
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −381.9
Std Dev 0
3
2
1
0
−1
−2

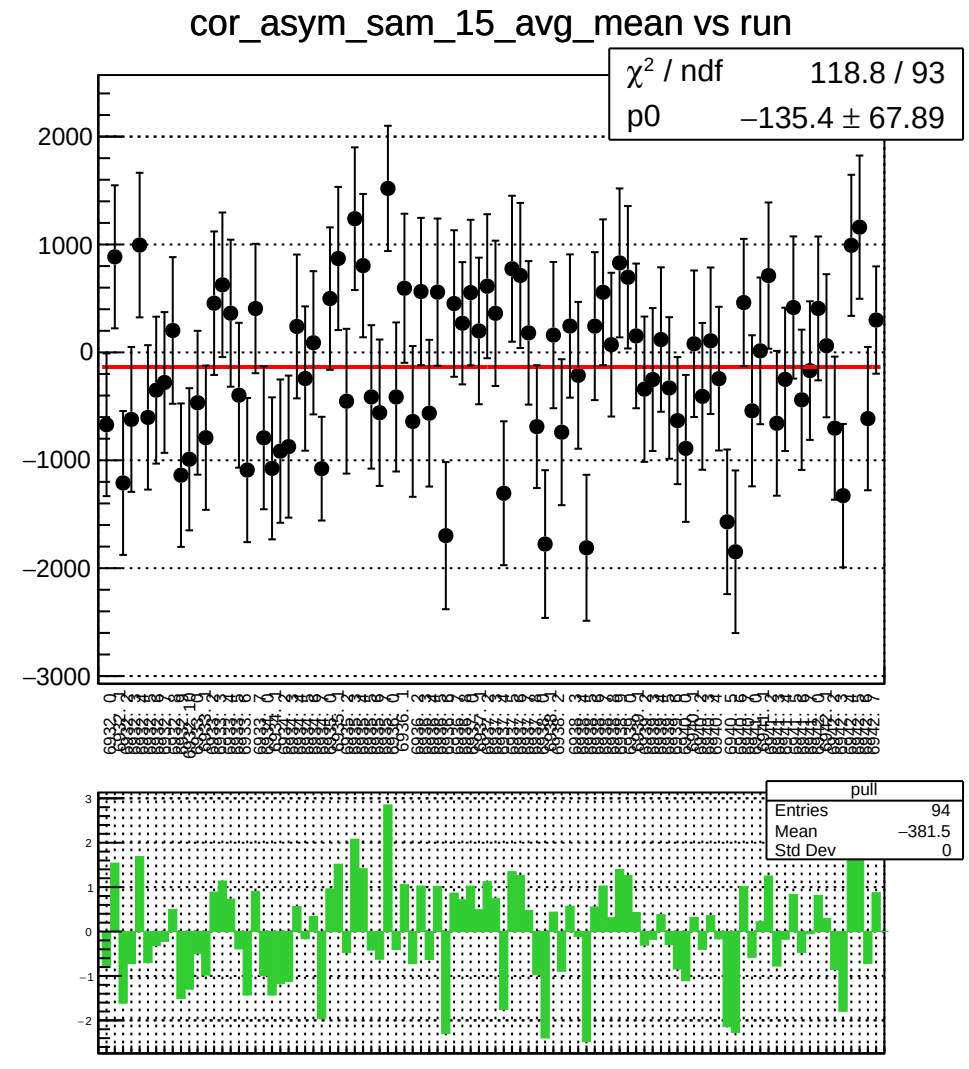

pull1D
Entries 94
Mean −0.003558
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

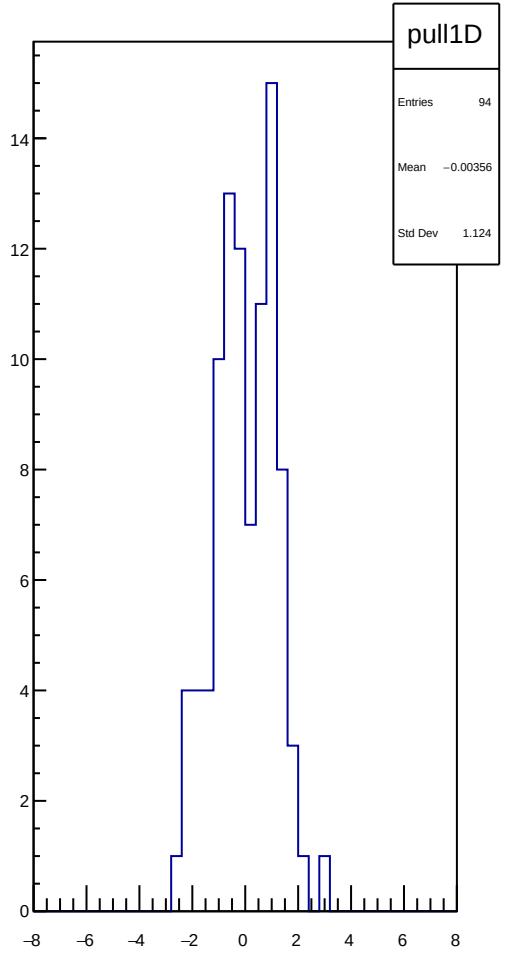

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 734.4 / 93
p0 63.74 ± 0.04801
72
70
68
66
64
62

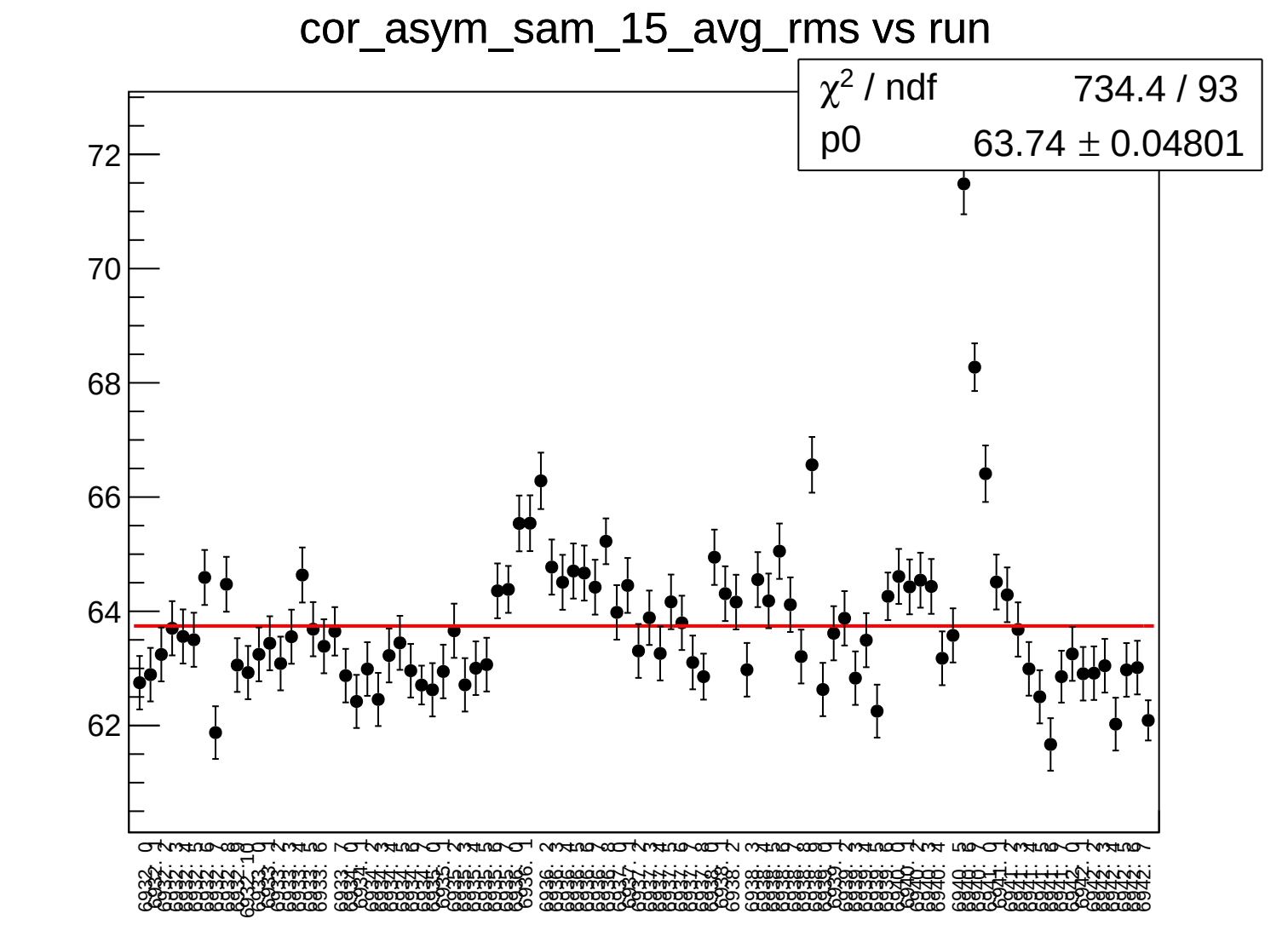

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 85.08 / 93
p0 412.2 ± 345.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 296.1
Std Dev 0
2
1
0
−1
−2

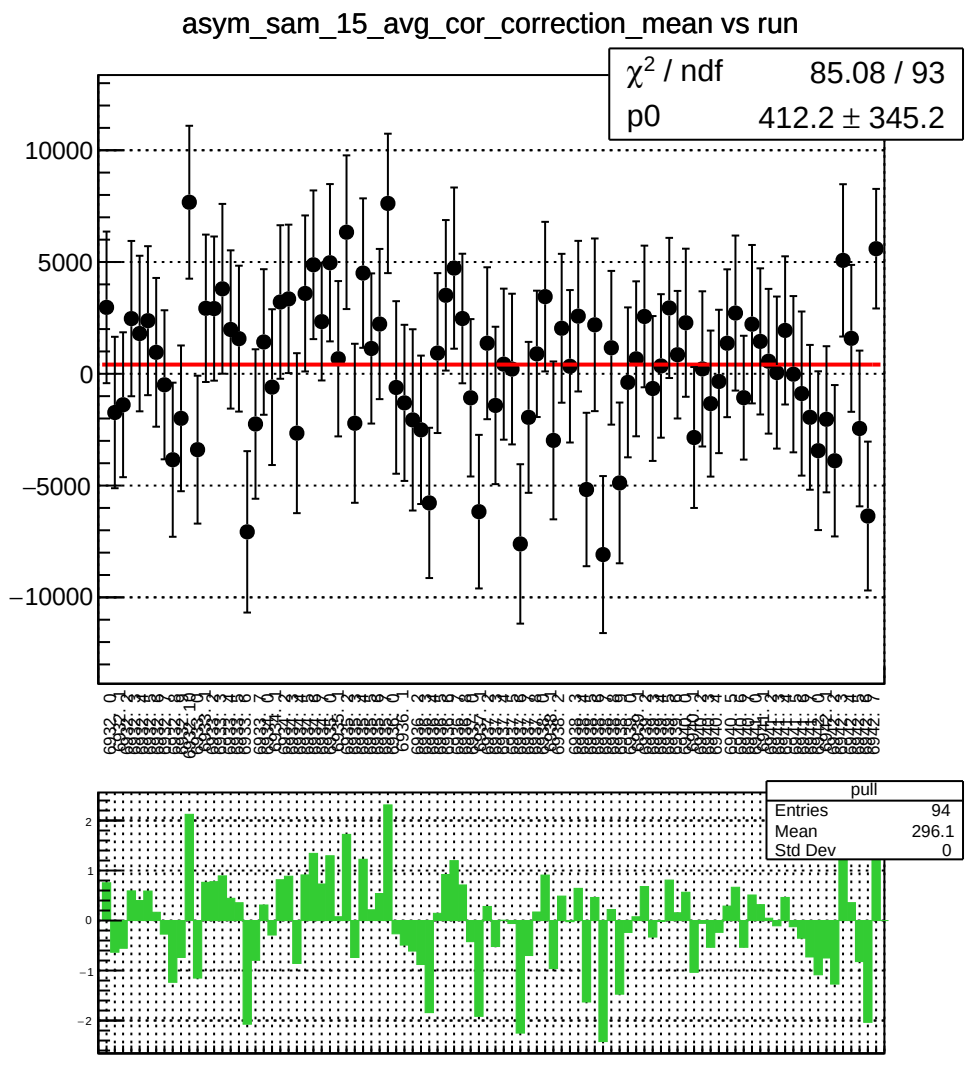

pull1D
Entries 94
Mean −0.01517
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

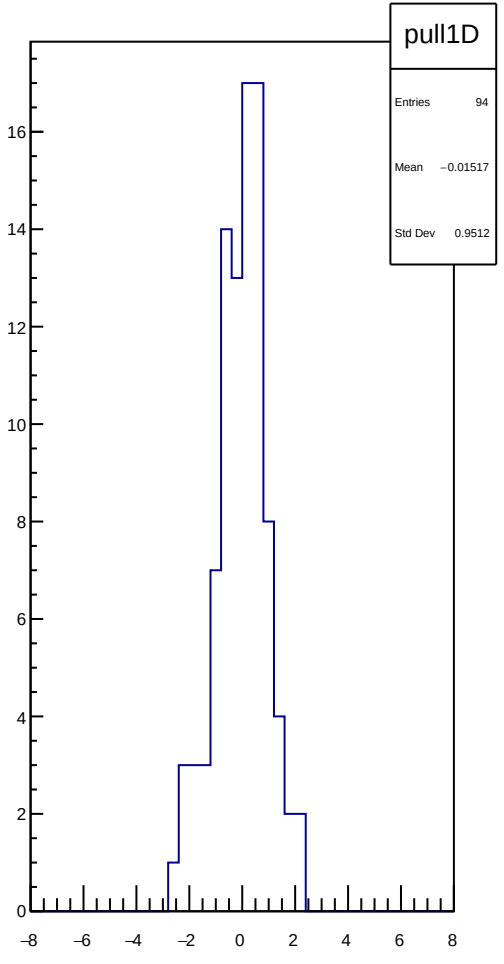

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3522 / 93
p0 323.9 ± 0.2441
380
360
340
320
300

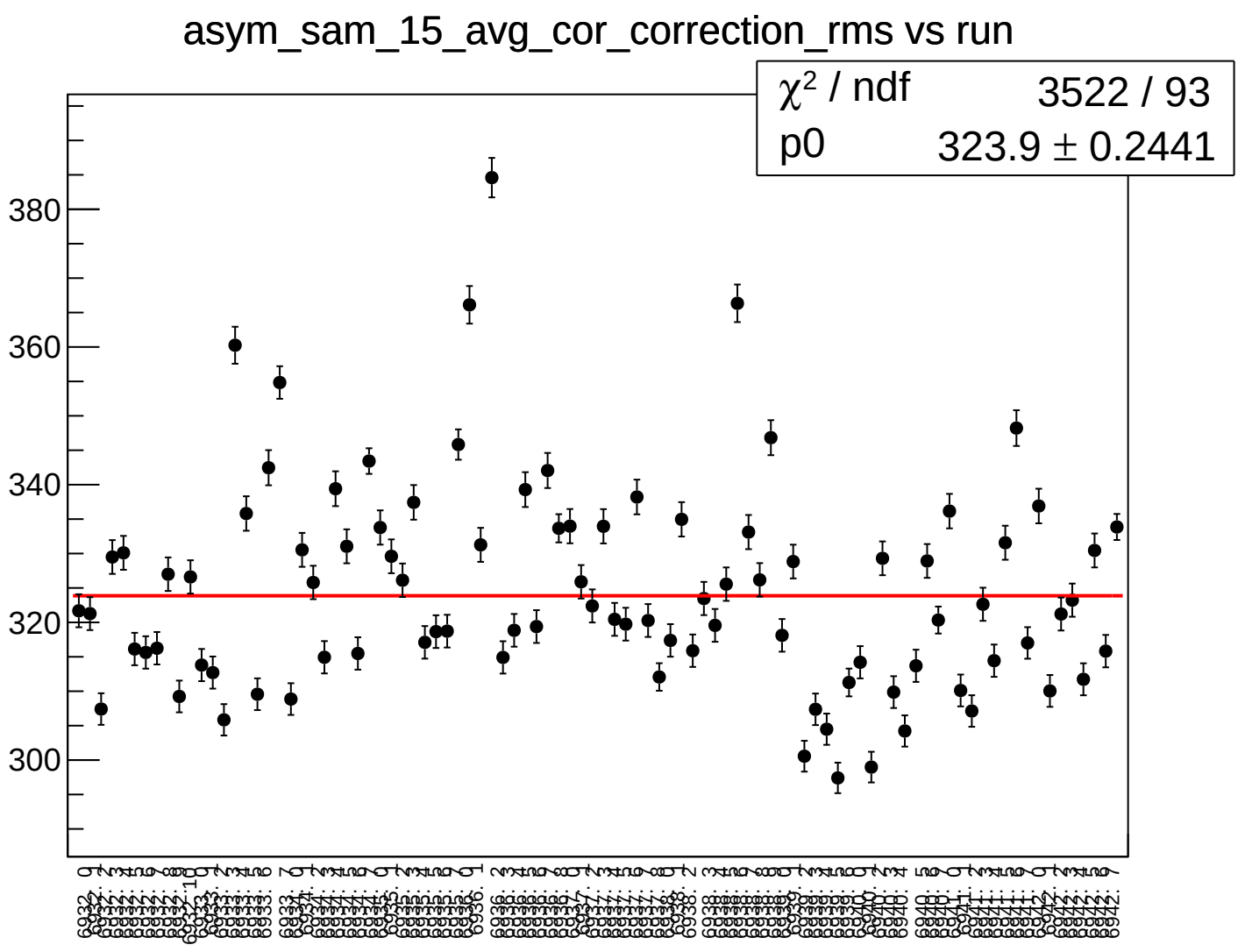

cor_asym_sam_15_avg_mean vs run
χ² / ndf 118.8 / 93
p0 −135.4 ± 67.89
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −381.5
Std Dev 0
3
2
1
0
−1
−2

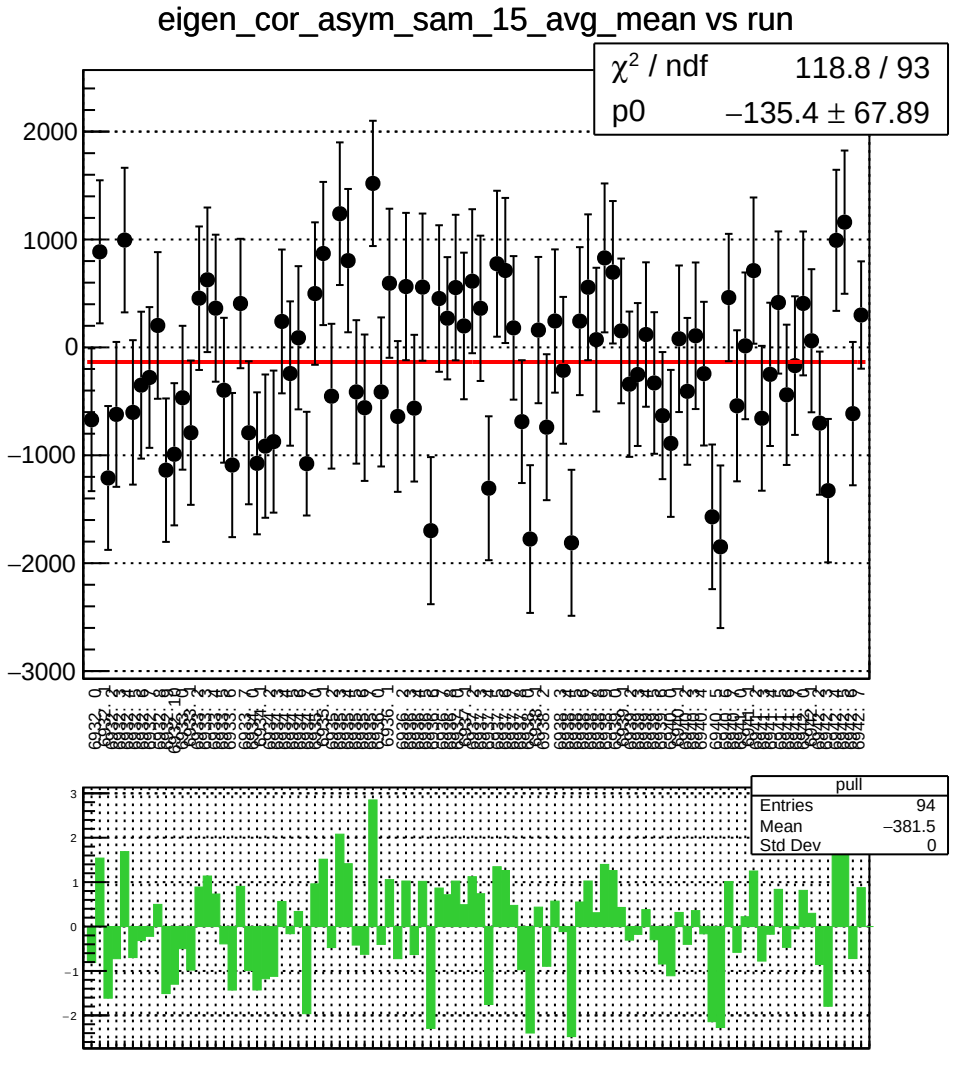

pull1D
Entries 94
Mean −0.00356
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

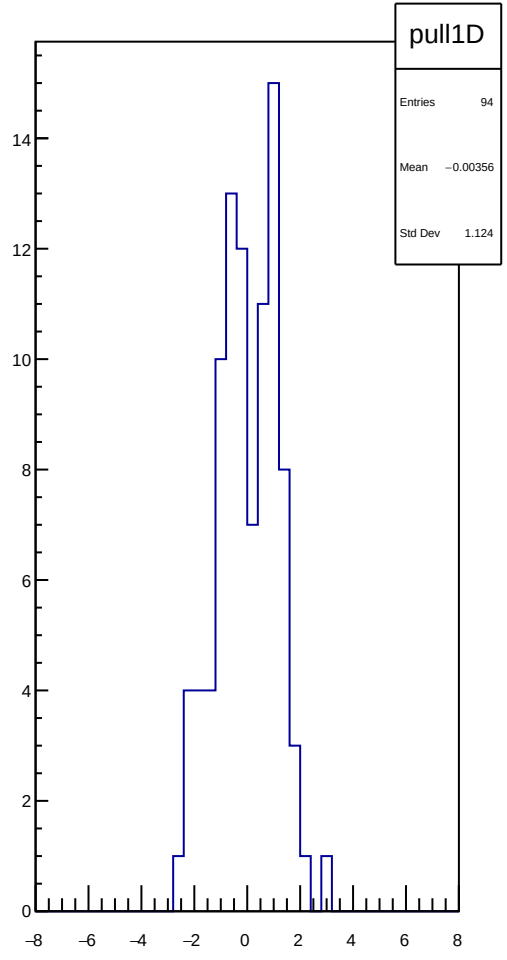

cor_asym_sam_15_avg_rms vs run
χ² / ndf 734.4 / 93
p0 63.74 ± 0.04801
72
70
68
66
64
62

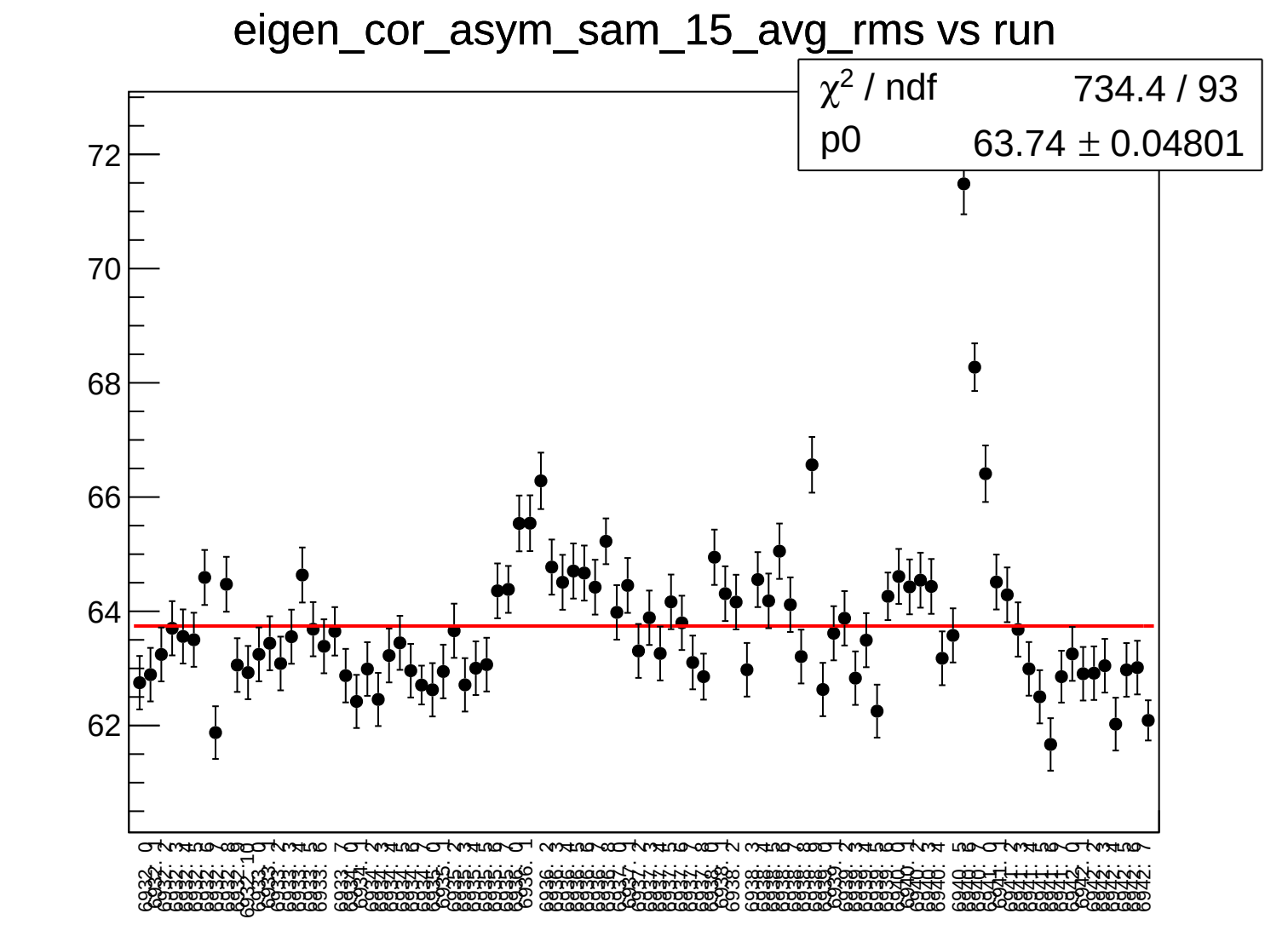

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 85.08 / 93
p0 412.2 ± 345.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 296.1
Std Dev 0
2
1
0
−1
−2

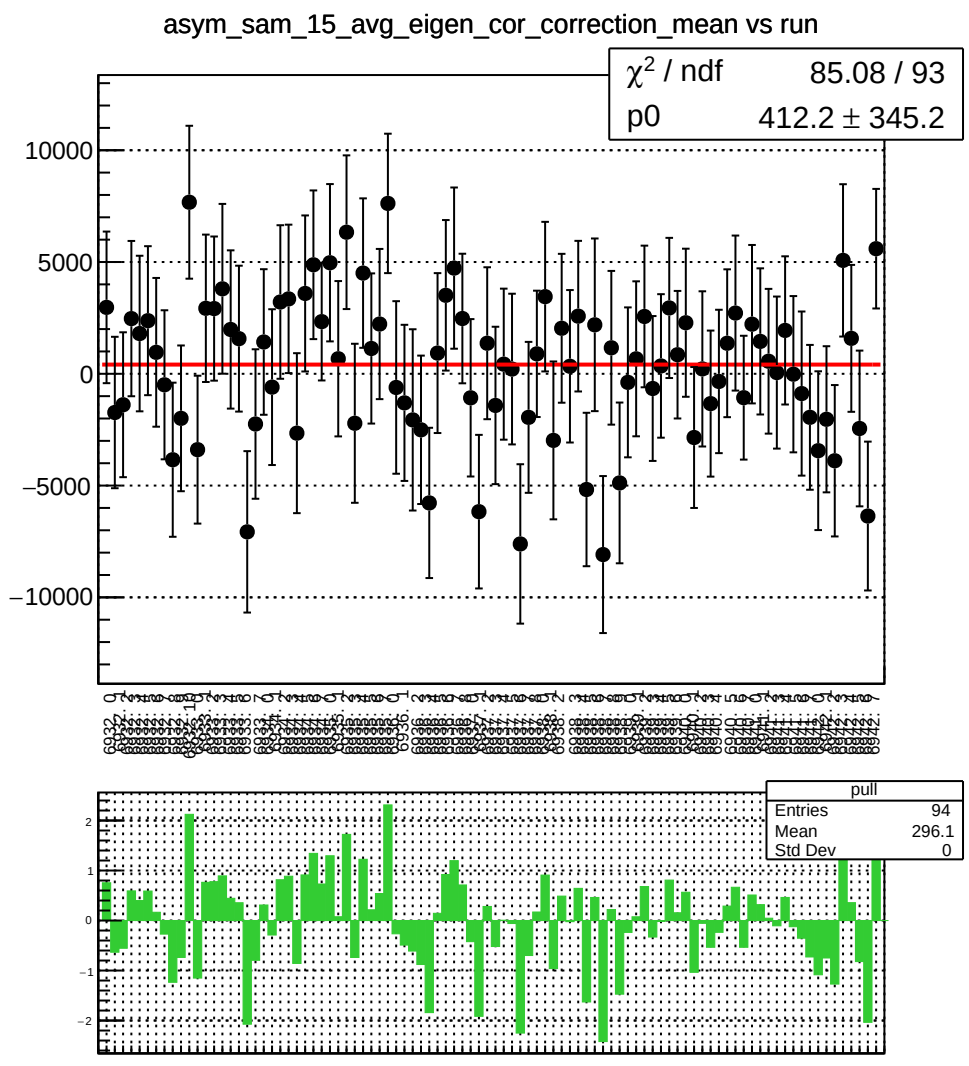

pull1D
Entries 94
Mean −0.01517
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

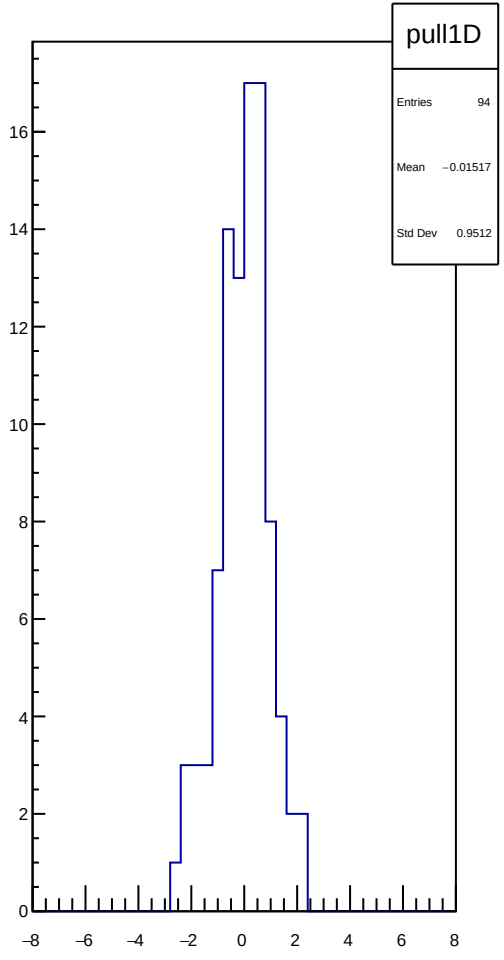

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 3522 / 93
p0 323.9 ± 0.2441
380
360
340
320
300

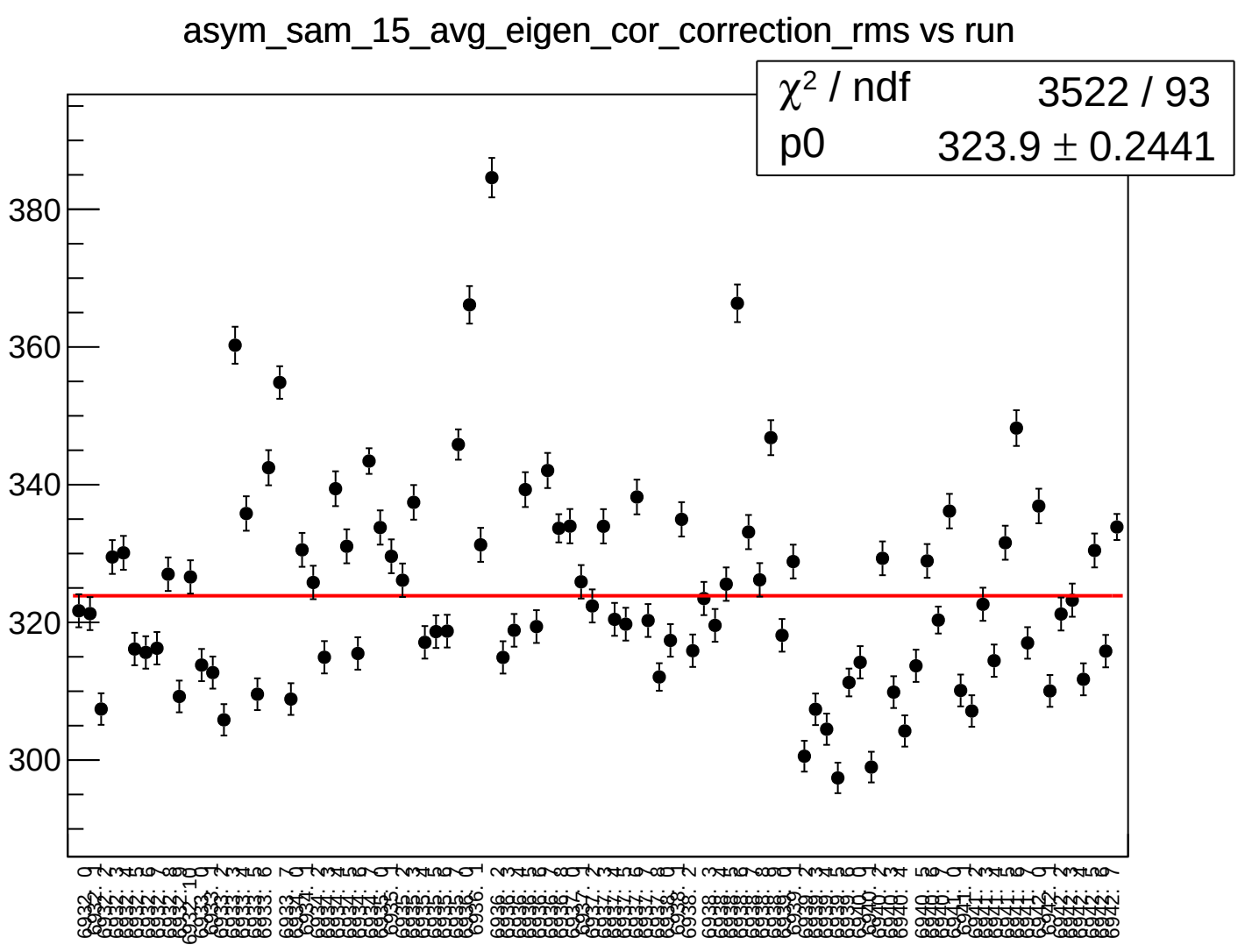

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 118.8 / 93
p0 −135.4 ± 67.89
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −381.5
Std Dev 0
3
2
1
0
−1
−2

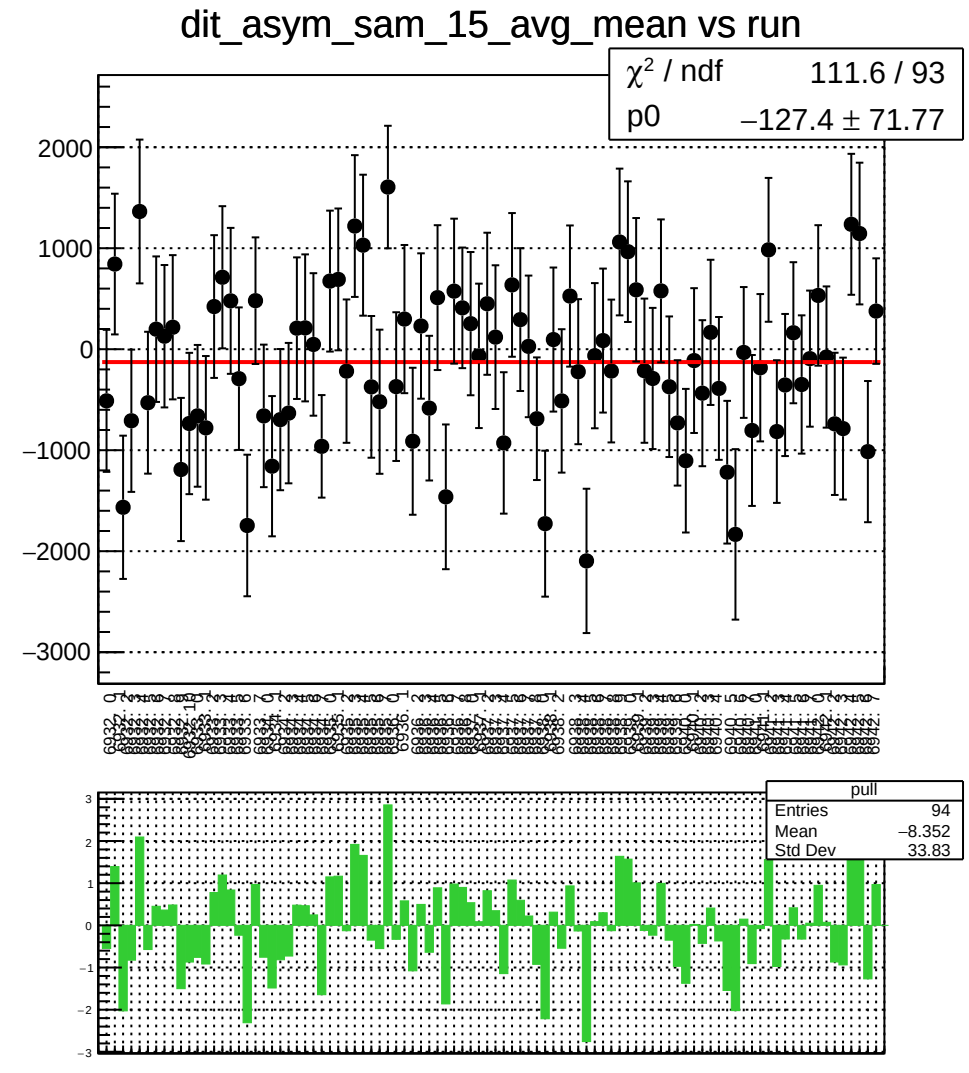

pull1D
Entries 94
Mean −0.00356
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

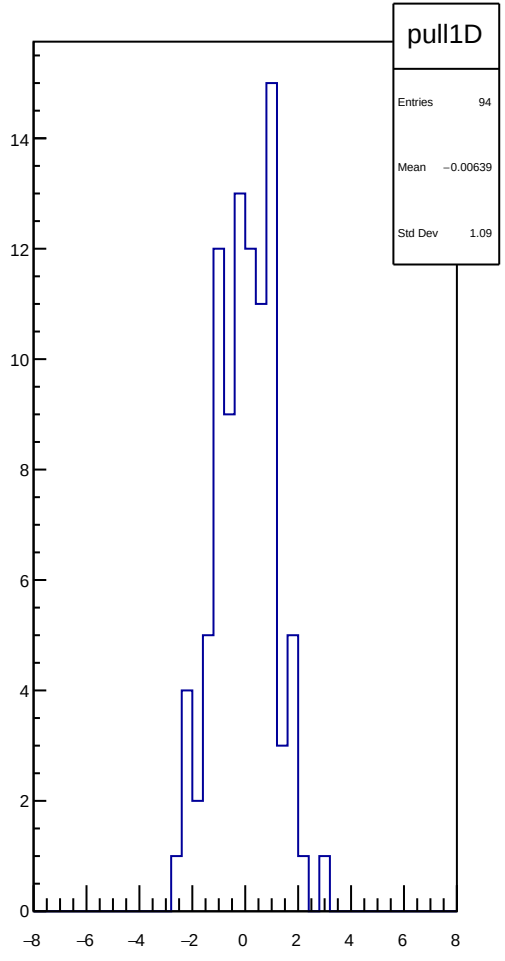

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 734.4 / 93
p0 63.74 ± 0.04801
72
70
68
66
64
62

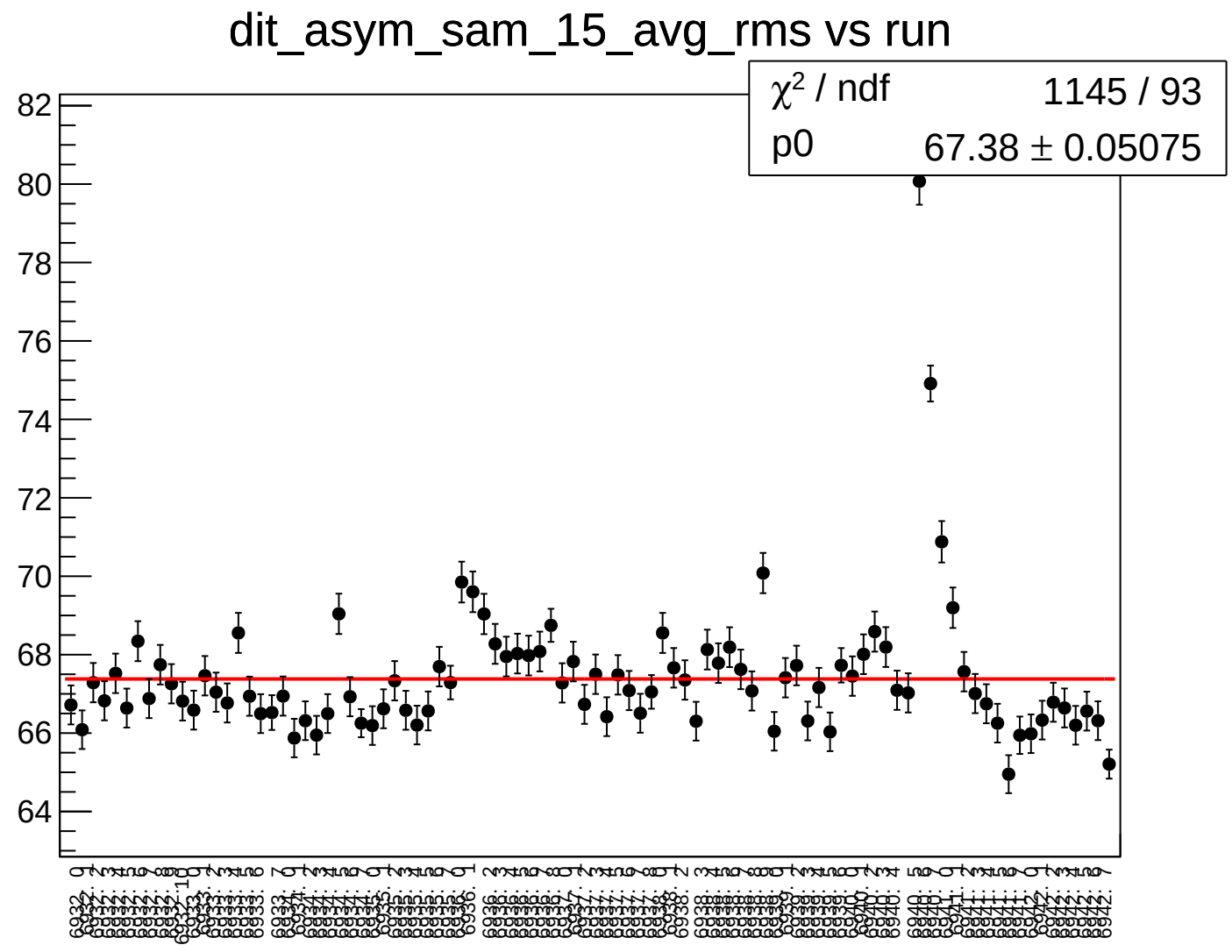

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.08 / 93
p0 412.2 ± 345.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 296.1
Std Dev 0
2
1
0
−1
−2

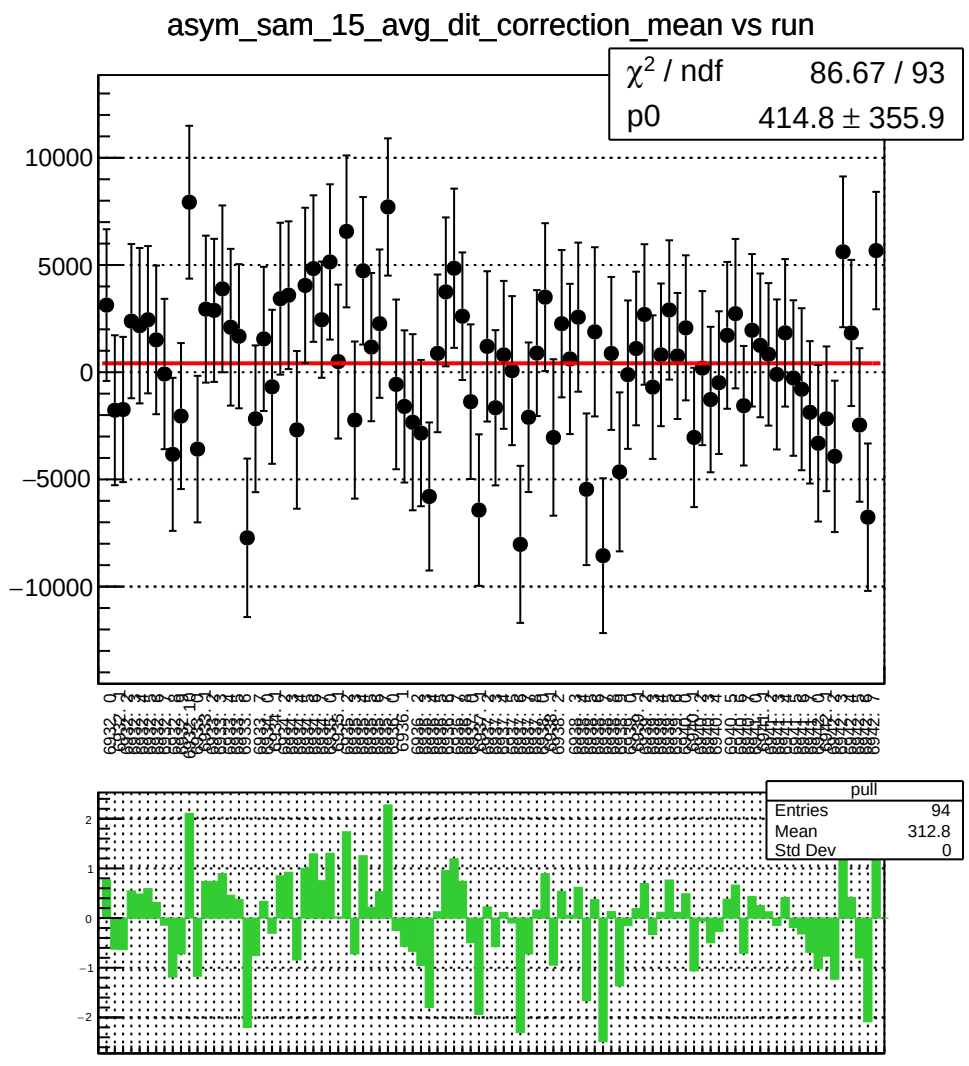

pull1D
Entries 94
Mean −0.01517
Std Dev 0.9512
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

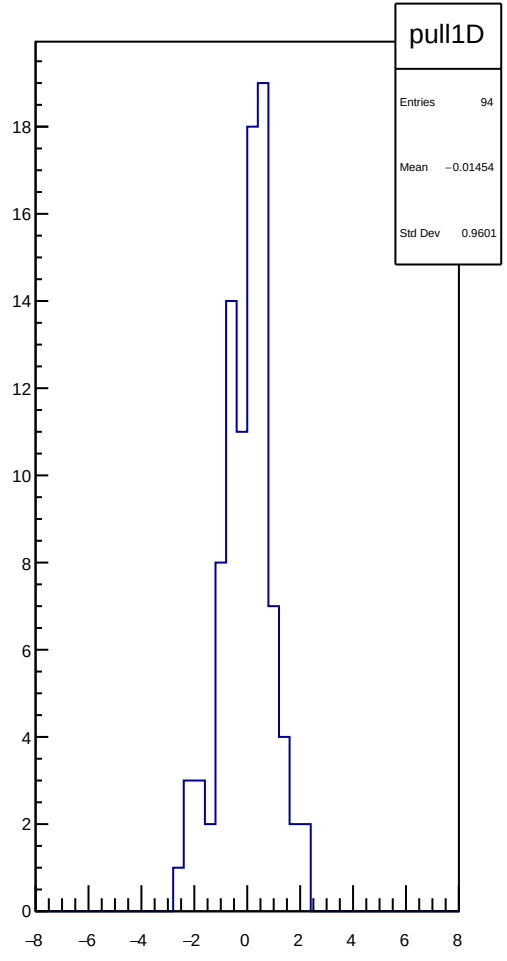

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3522 / 93
p0 323.9 ± 0.2441
380
360
340
320
300

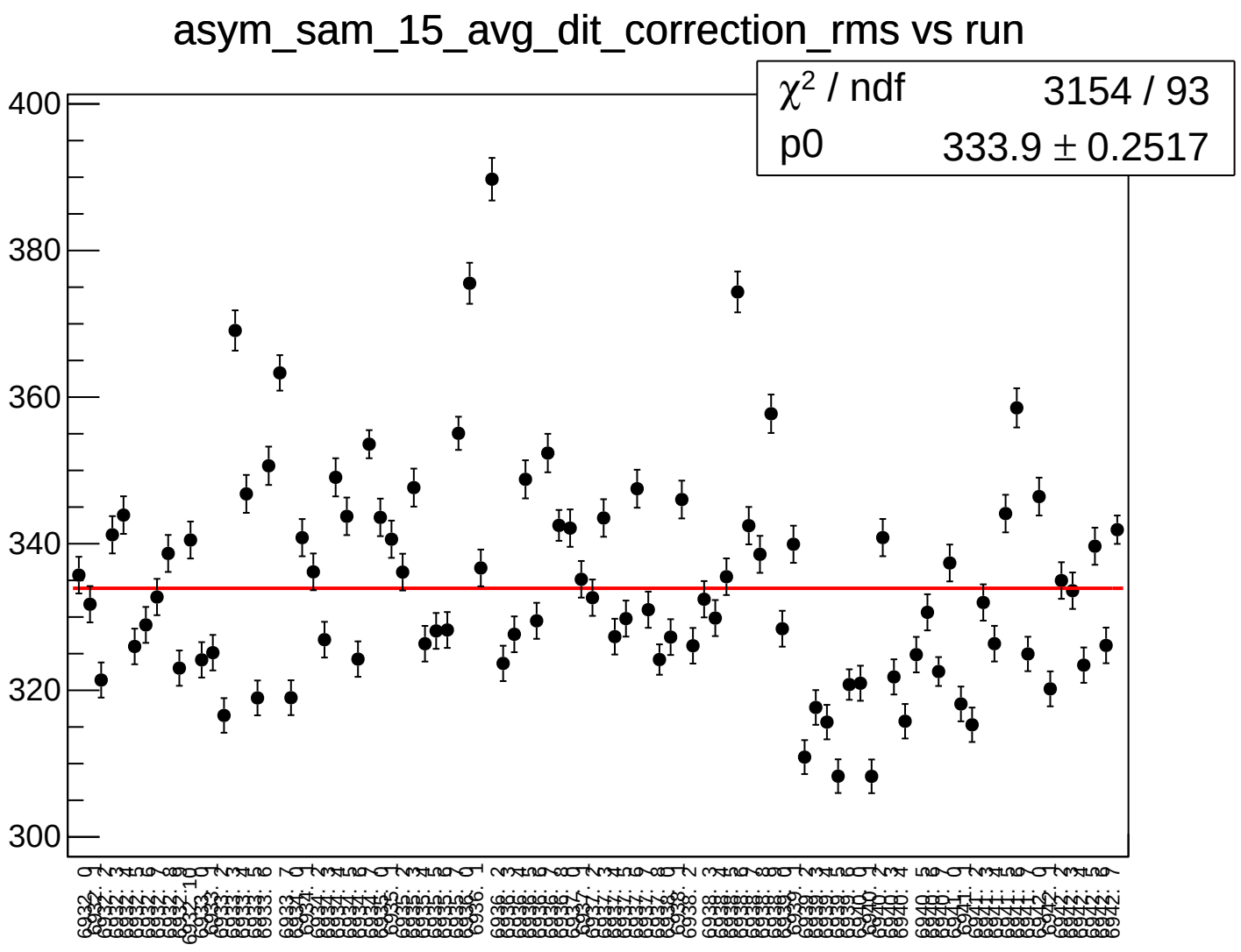

dit_asym_sam_15_avg_mean vs run
χ² / ndf 111.6 / 93
p0 −127.4 ± 71.77
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −8.352
Std Dev 33.83
3
2
1
0
−1
−2
−3

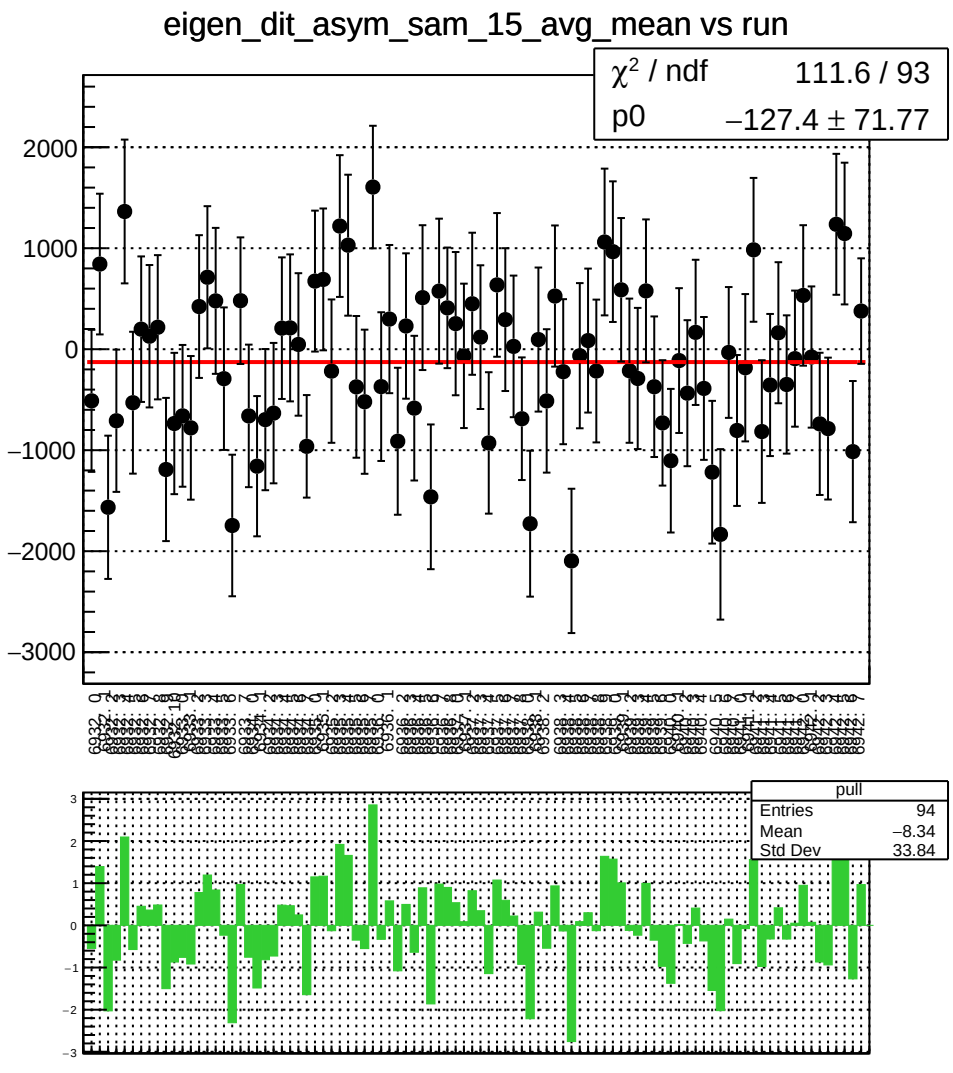

pull1D
Entries 94
Mean −0.00639
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

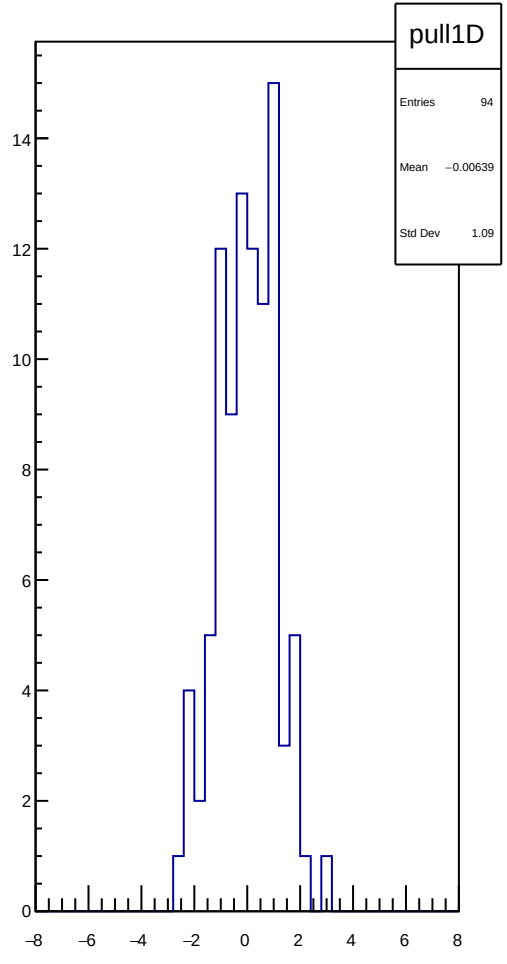

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 1145 / 93
p0 67.38 ± 0.05075
82
80
78
76
74
72
70
68
66
64

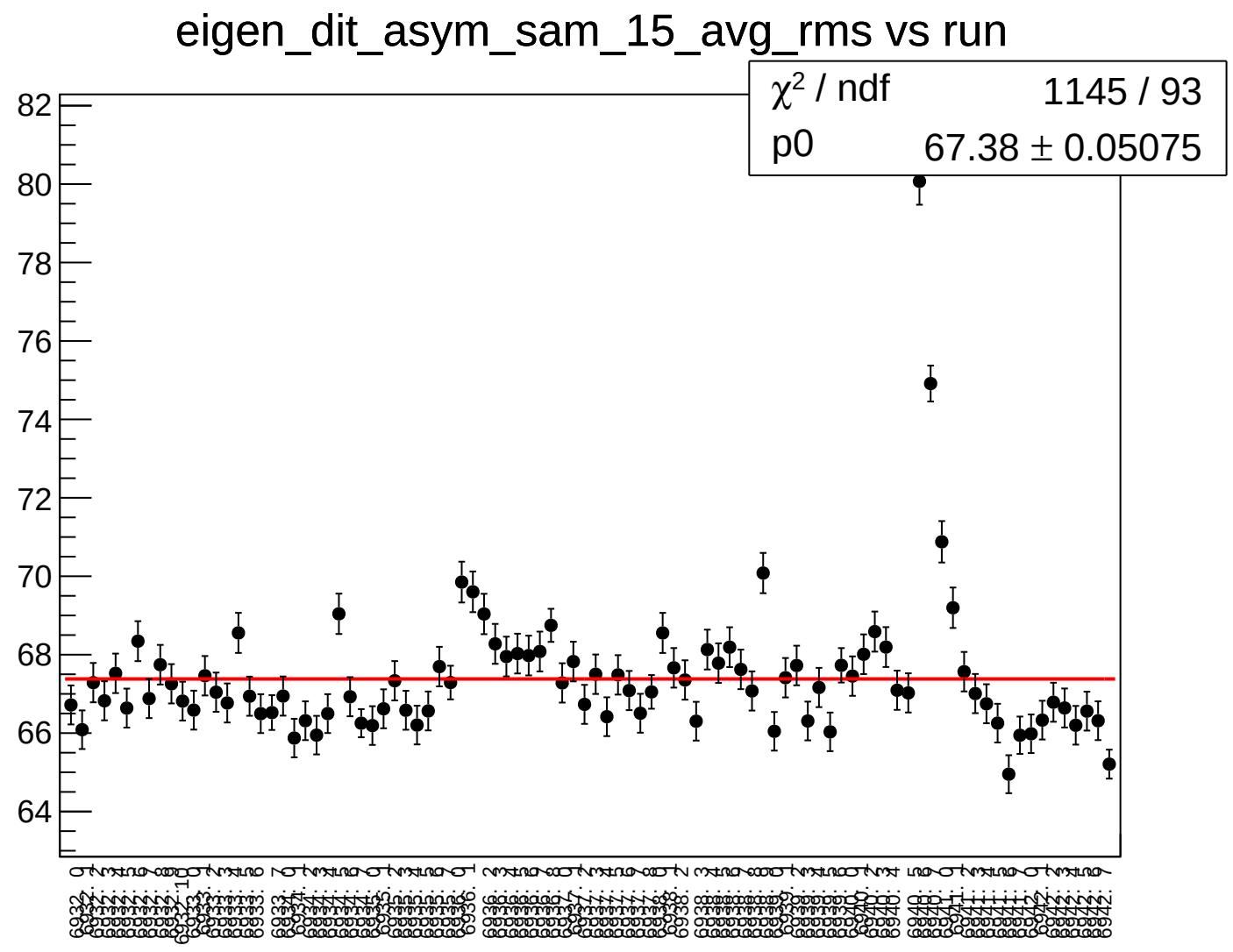

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 86.67 / 93
p0 414.8 ± 355.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 312.8
Std Dev 0
2
1
0
−1
−2

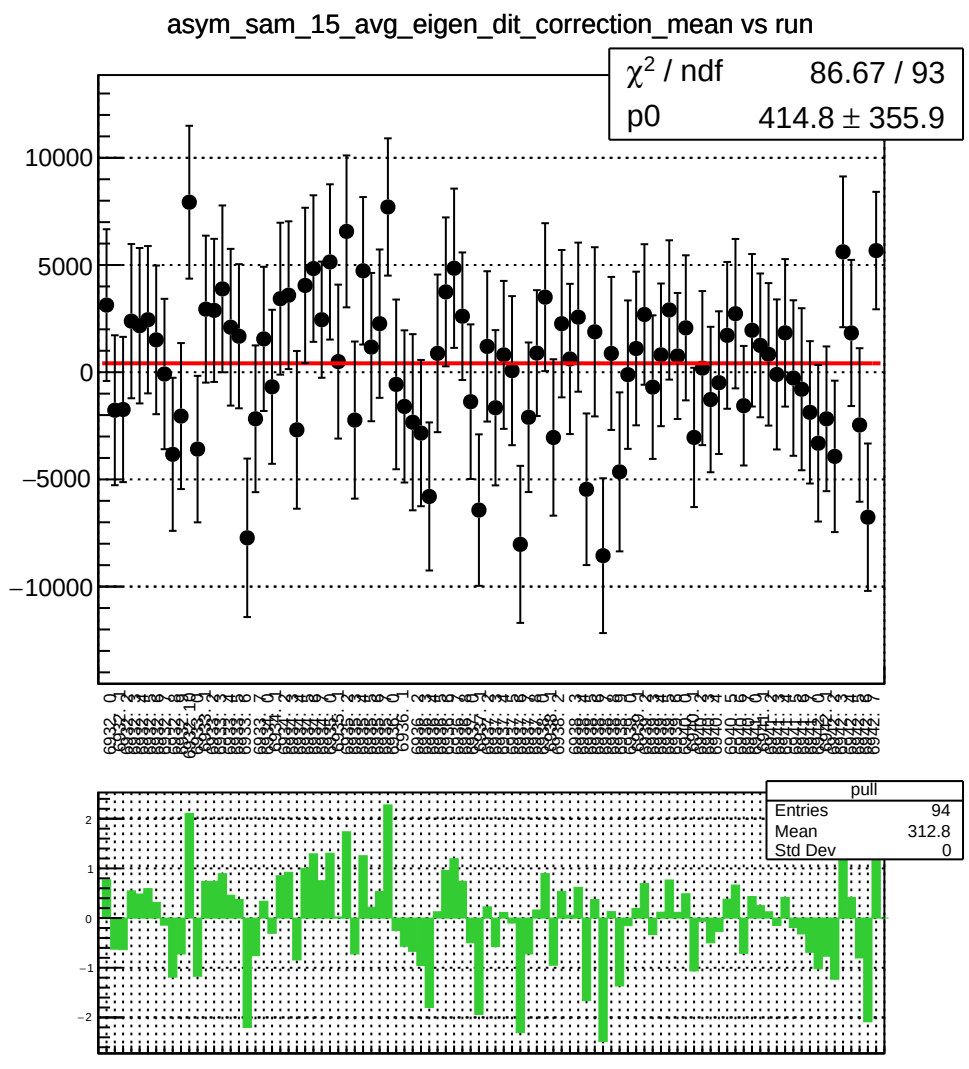

pull1D
Entries 94
Mean −0.01454
Std Dev 0.9601
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

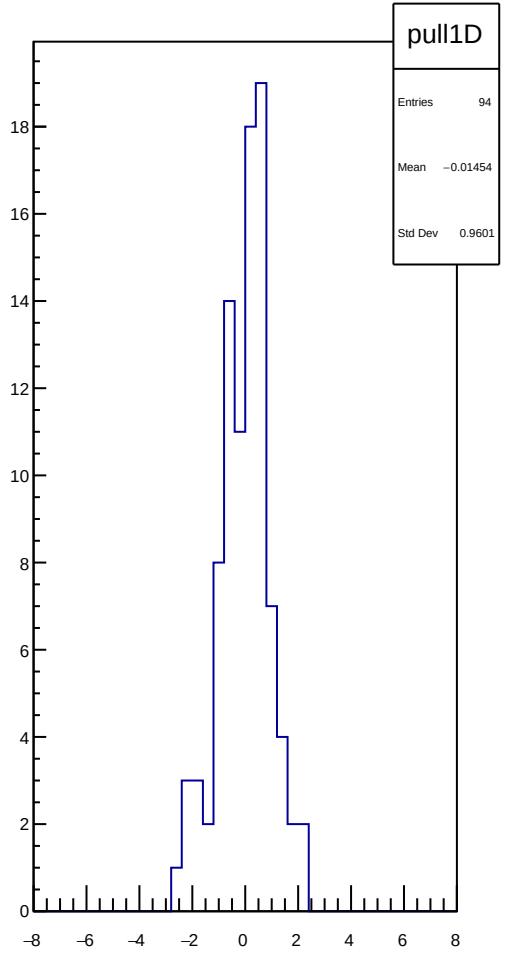

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3154 / 93
p0 333.9 ± 0.2517
400
380
360
340
320
300

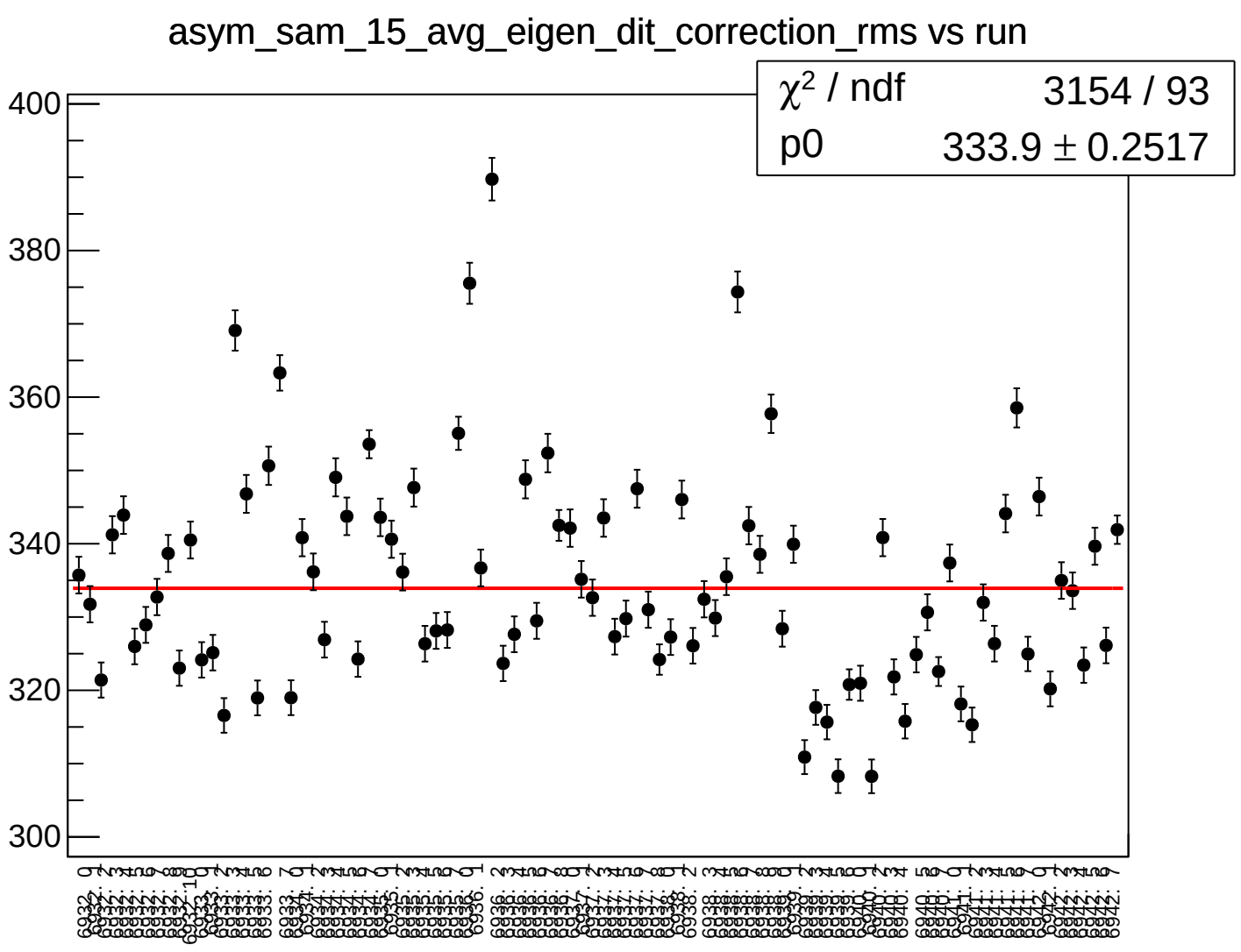

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 111.6 / 93
p0 −127.4 ± 71.77
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −8.34
Std Dev 33.84
3
2
1
0
−1
−2
−3

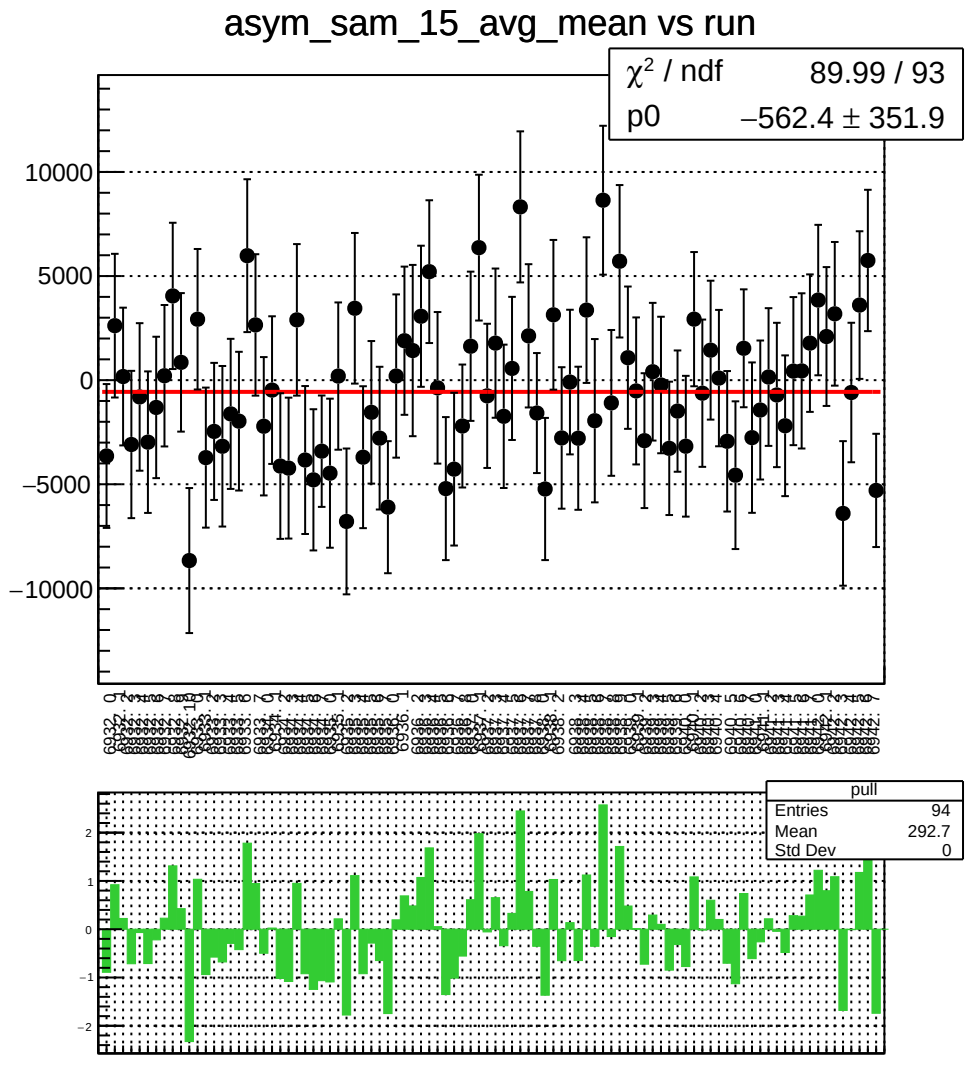

pull1D
Entries 94
Mean −0.00639
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

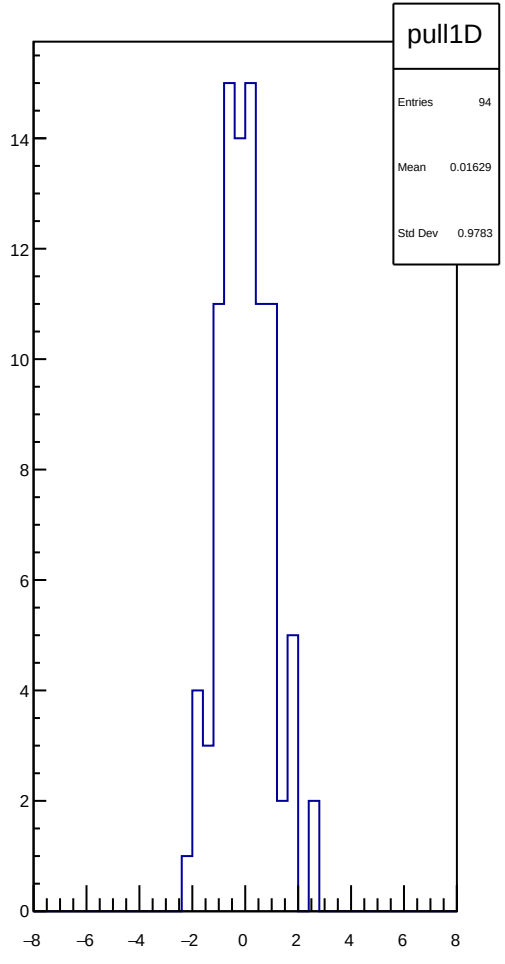

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 1145 / 93
p0 67.38 ± 0.05075
82
80
78
76
74
72
70
68
66
64

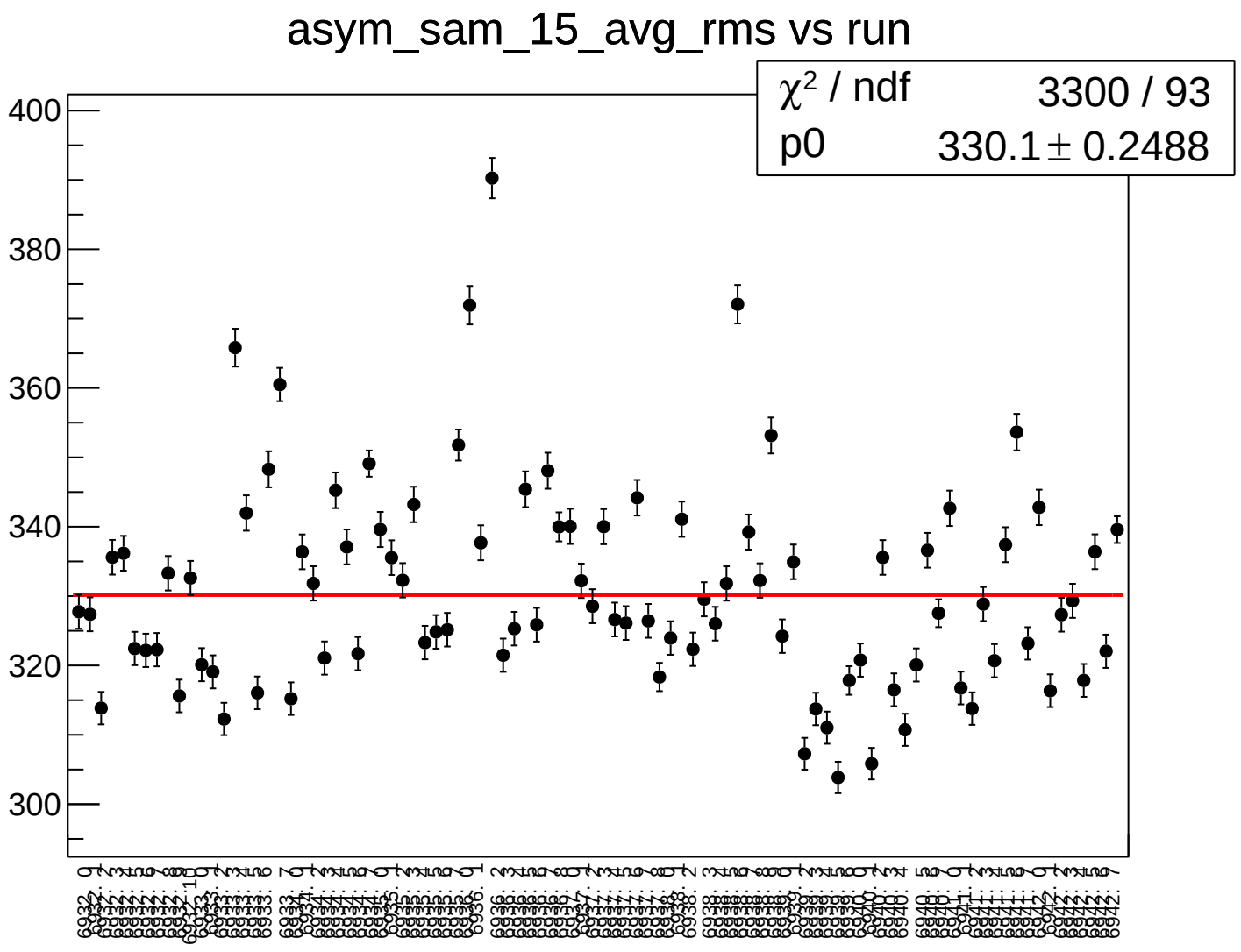

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.67 / 93
p0 414.8 ± 355.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 312.8
Std Dev 0
2
1
0
−1
−2

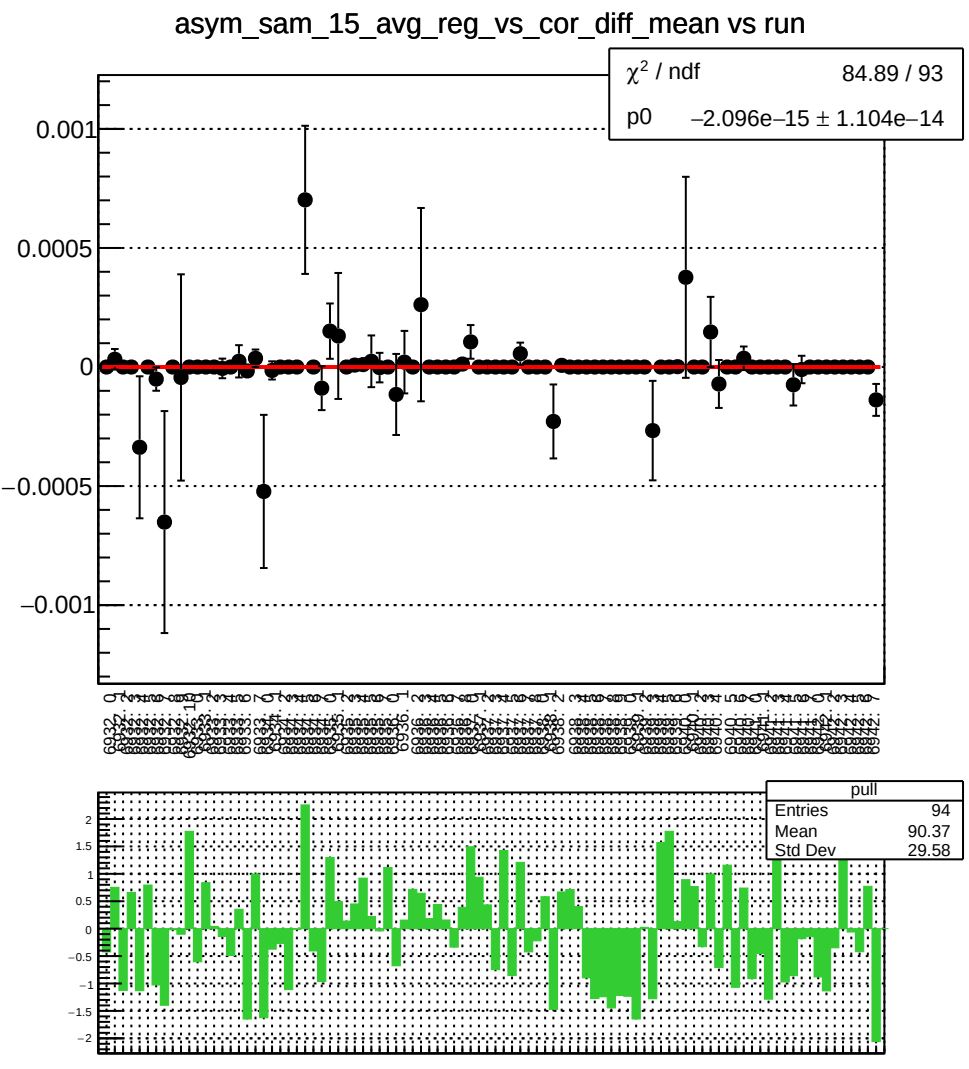

pull1D
Entries 94
Mean −0.01454
Std Dev 0.9601
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

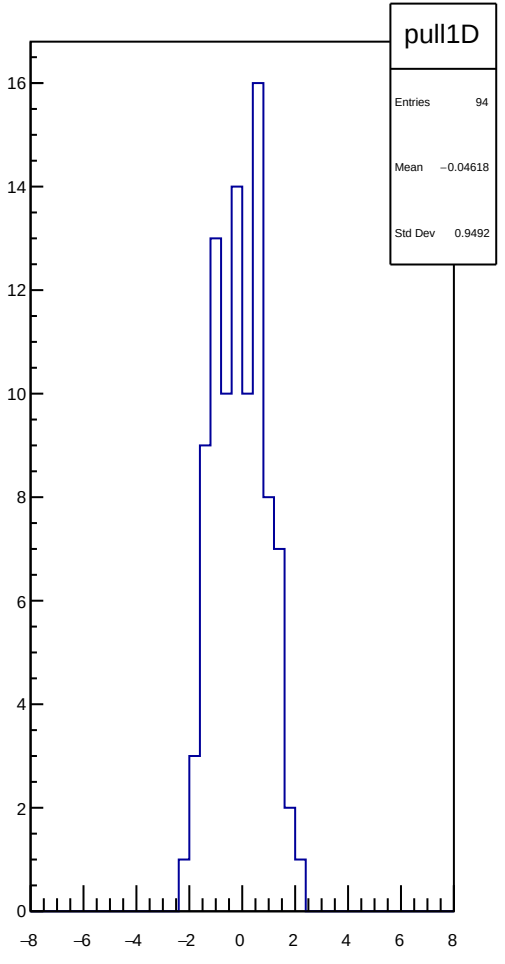

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3154 / 93
p0 333.9 ± 0.2517
400
380
360
340
320
300

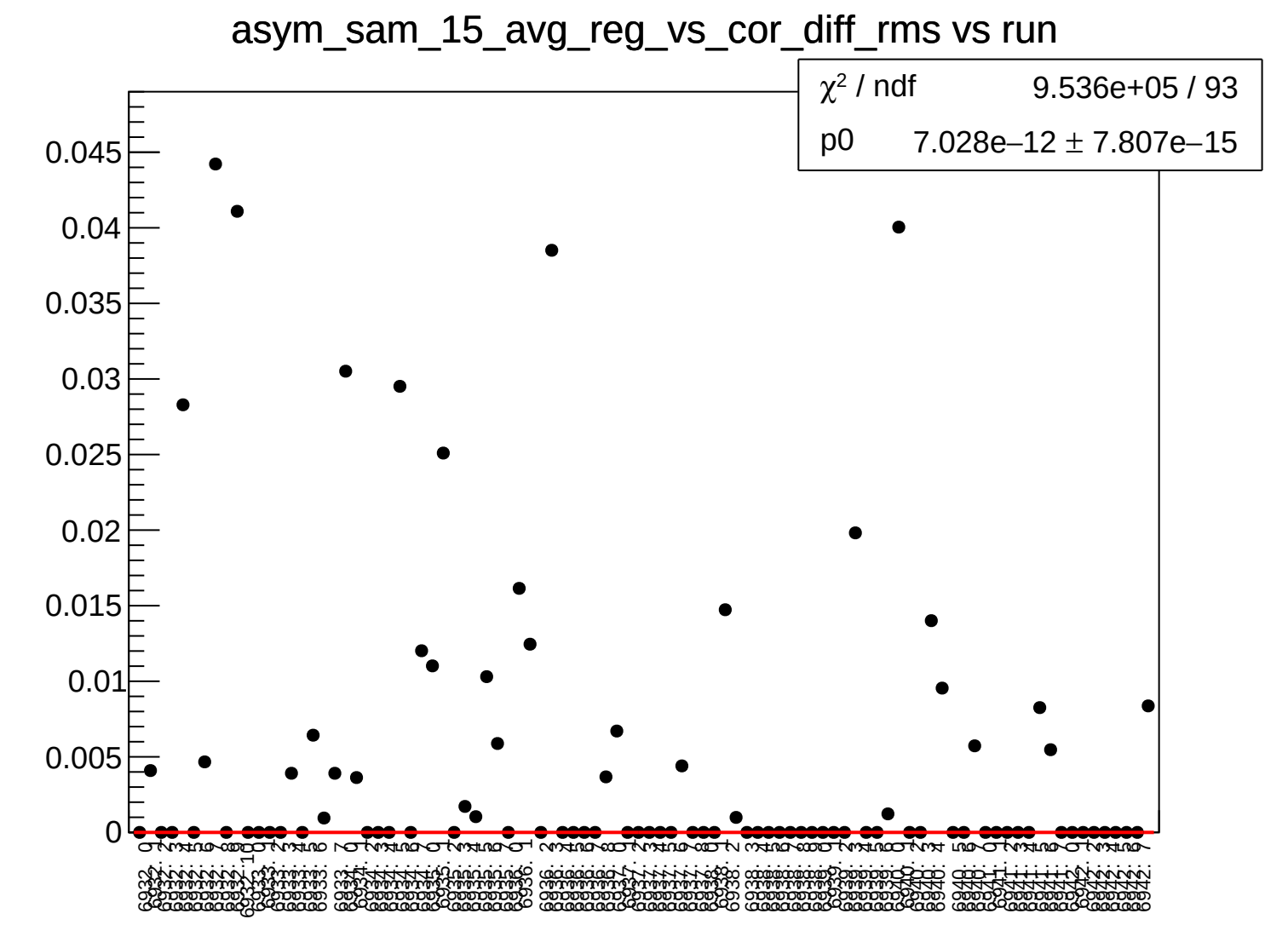

asym_sam_15_avg_mean vs run
χ² / ndf 89.99 / 93
p0 −562.4 ± 351.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 292.7
Std Dev 0
2
1
0
−1
−2

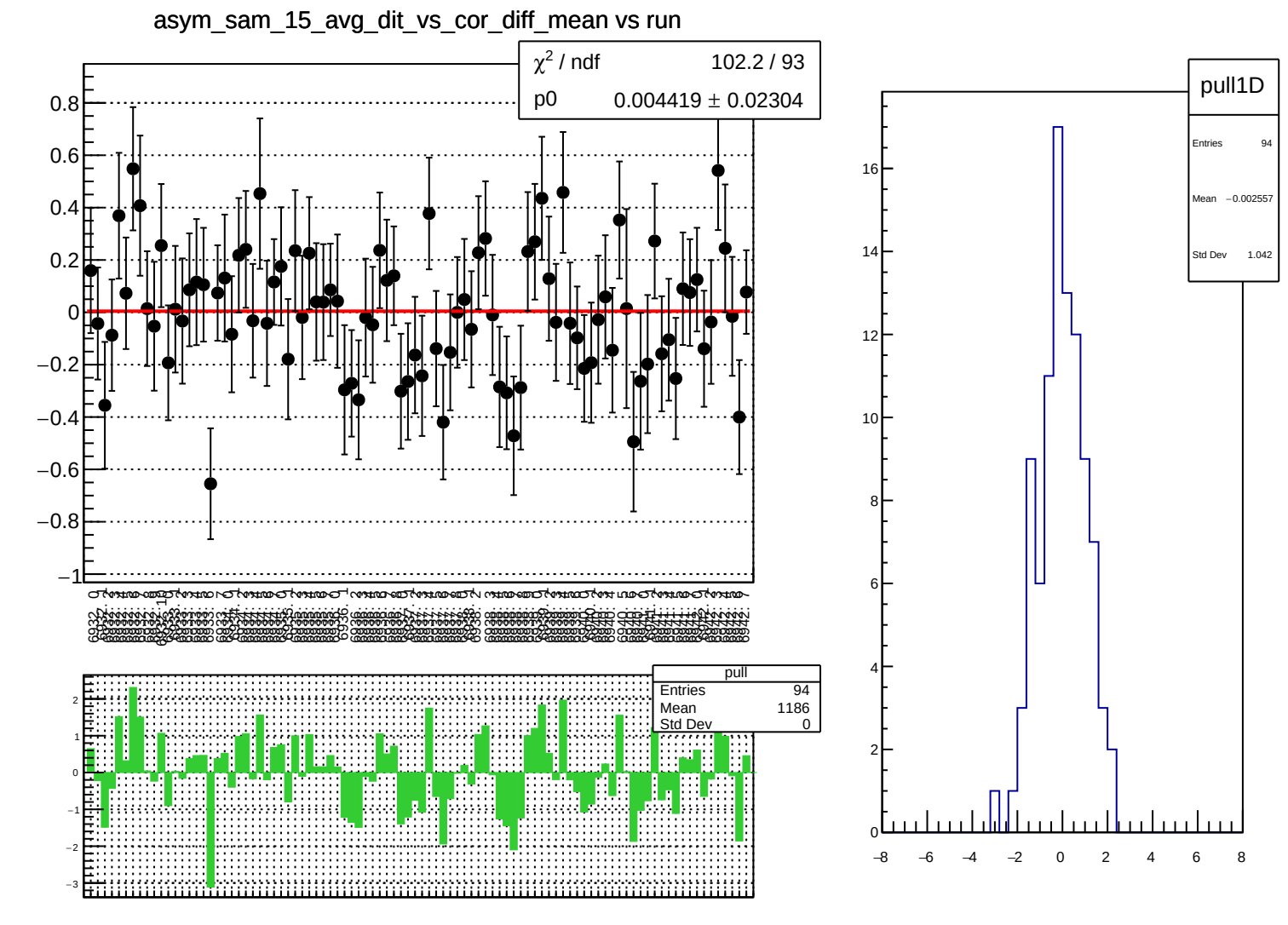

pull1D
Entries 94
Mean 0.01629
Std Dev 0.9783
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

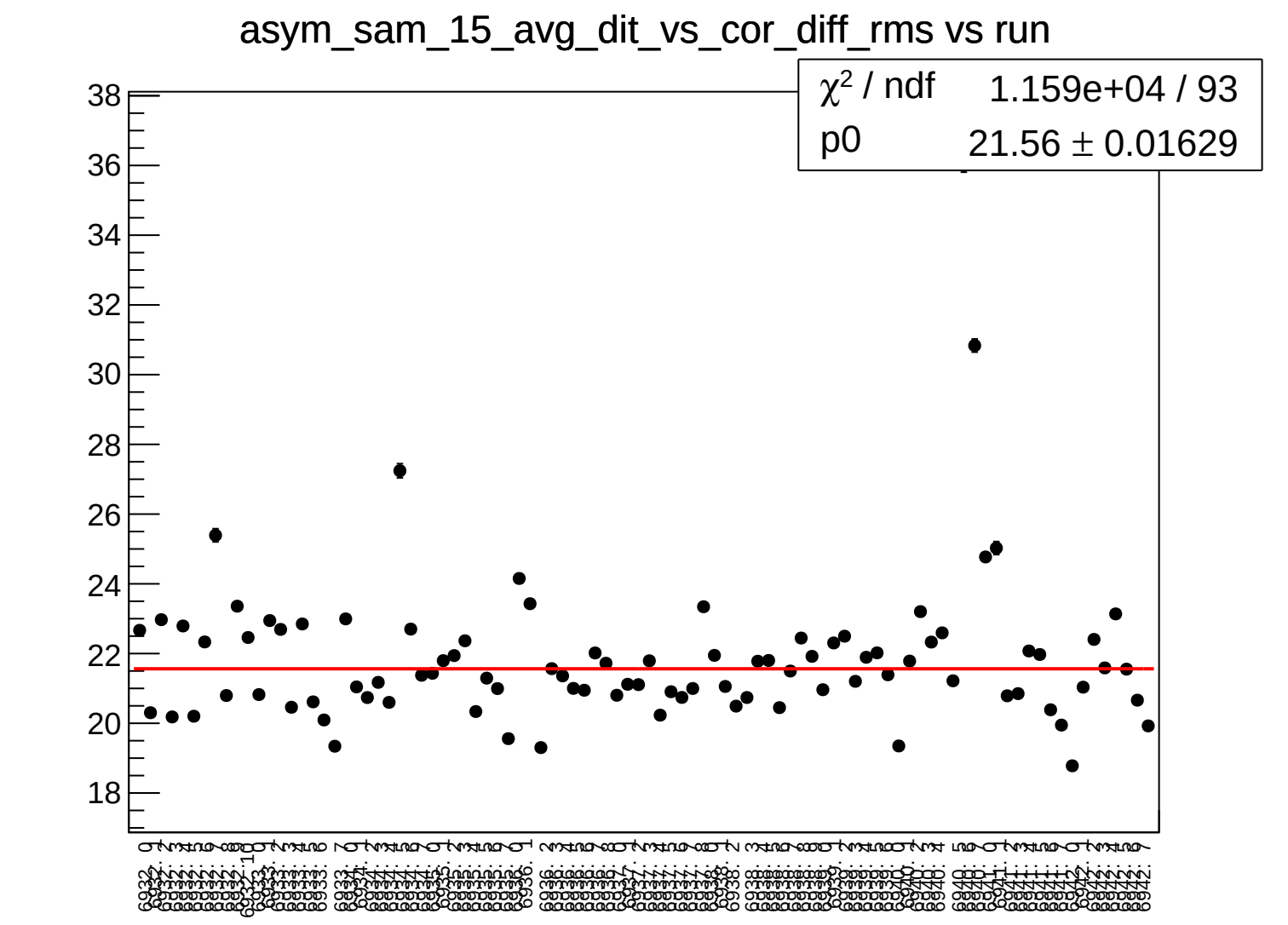

asym_sam_15_avg_rms vs run
χ² / ndf 3300 / 93
p0 330.1 ± 0.2488
400
380
360
340
320
300

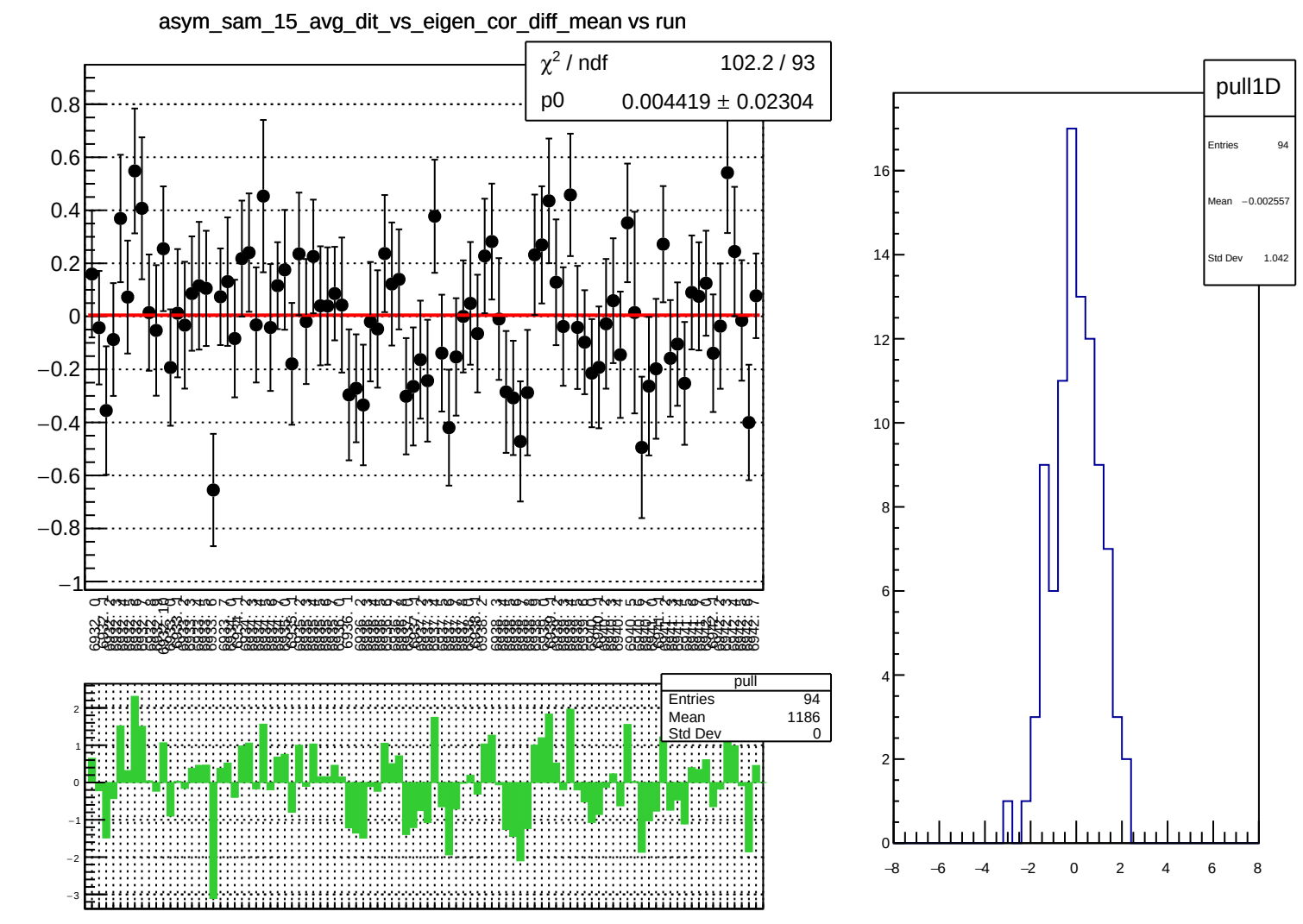

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.89 / 93
p0 −2.096e−15 ± 1.104e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 90.37
Std Dev 29.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

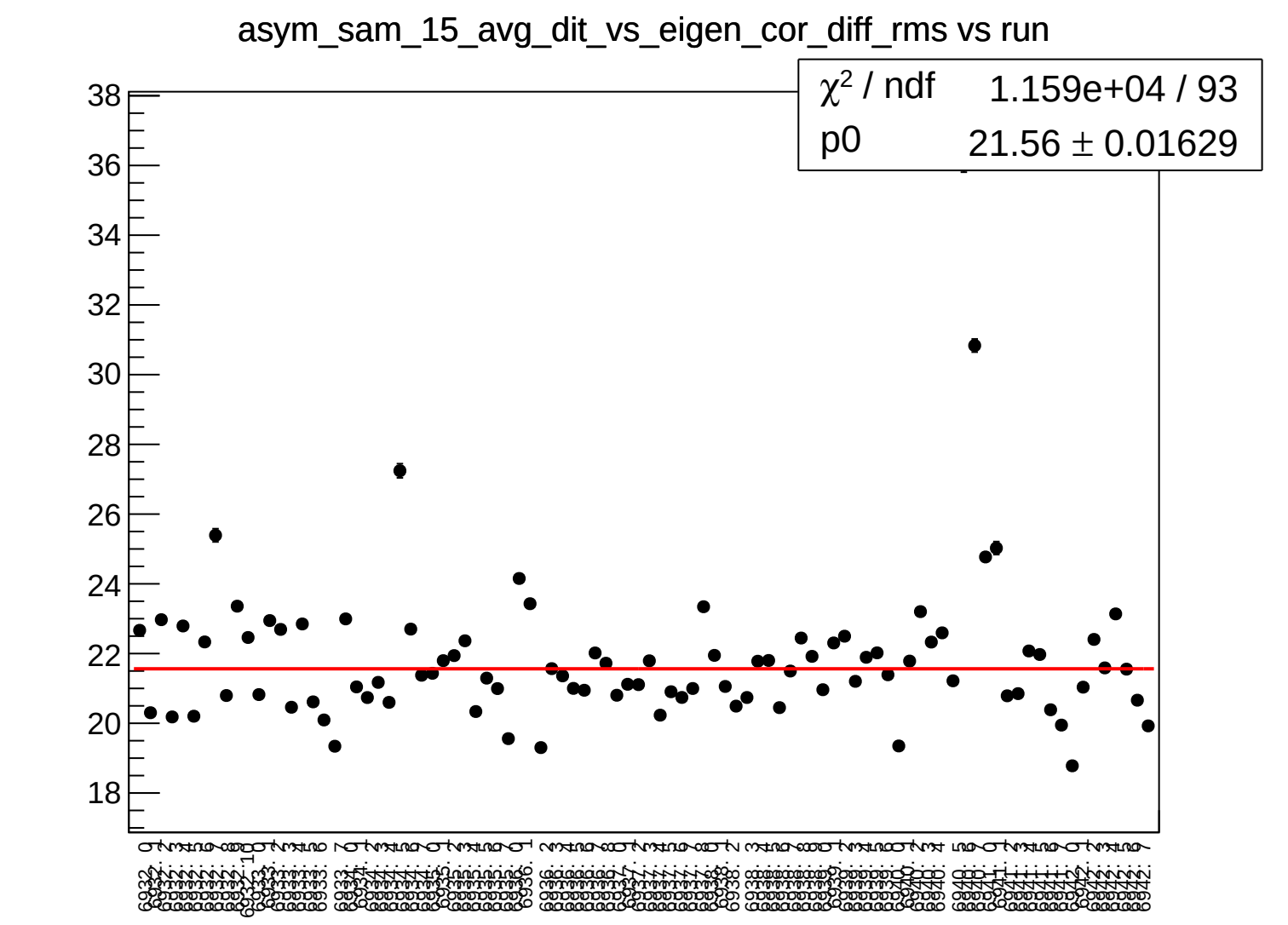

pull1D
Entries 94
Mean −0.04618
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

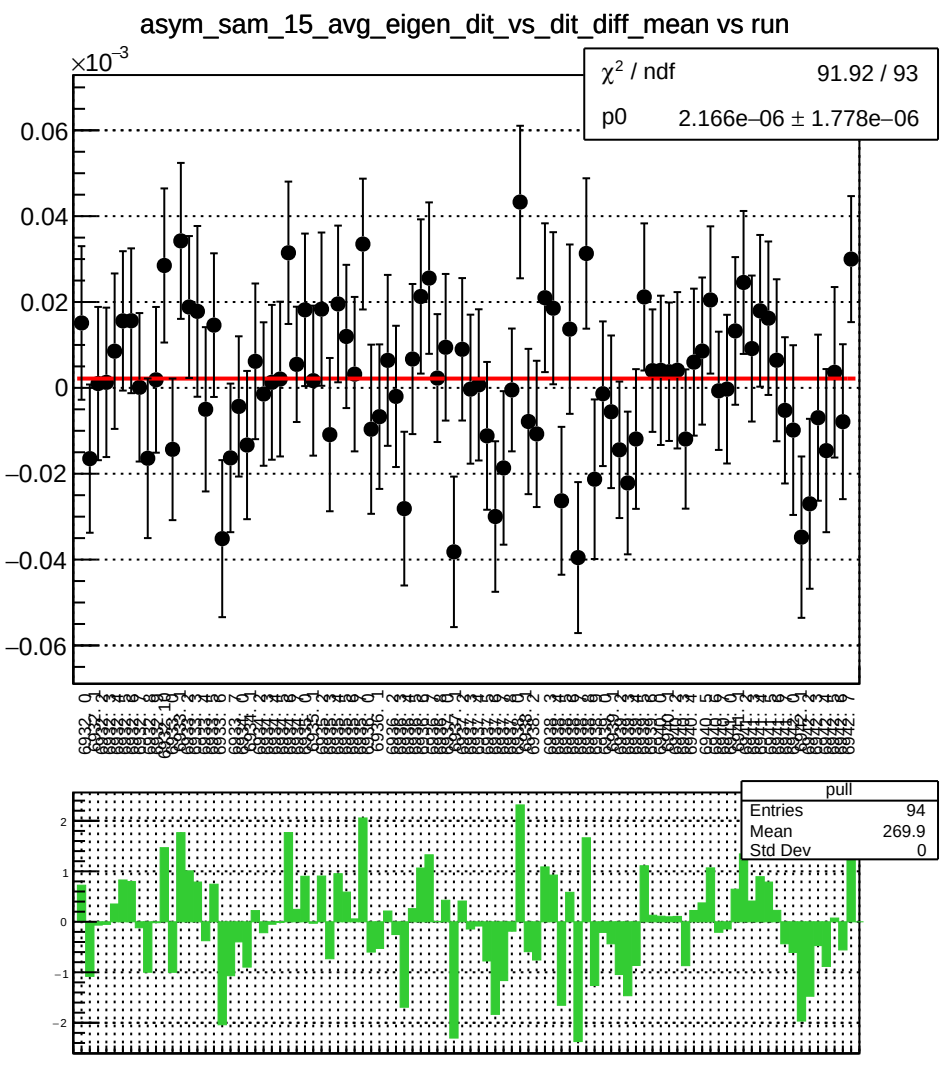

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.536e+05 / 93
p0 7.028e−12 ± 7.807e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

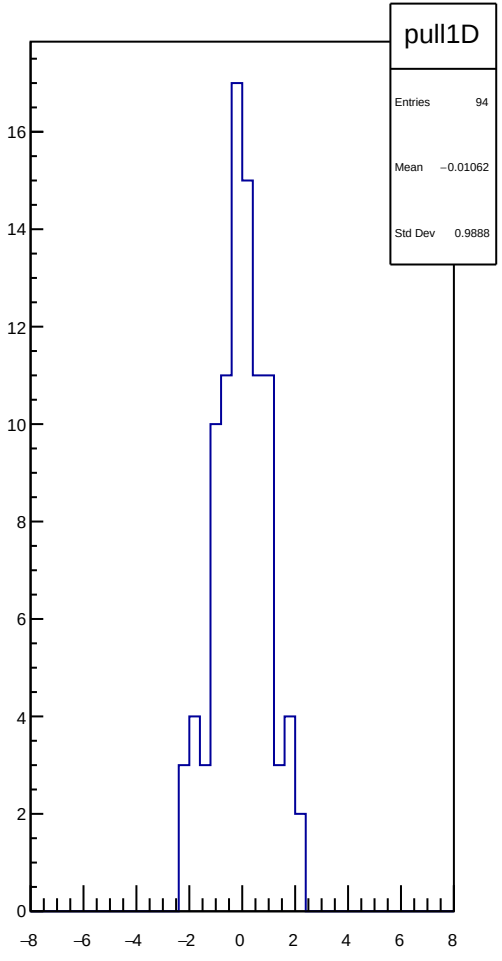

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 93
p0 0.004419 ± 0.02304
pull
Entries 94
Mean 1186
Std Dev 0
pull1D
Entries 94
Mean −0.002557
Std Dev 1.042

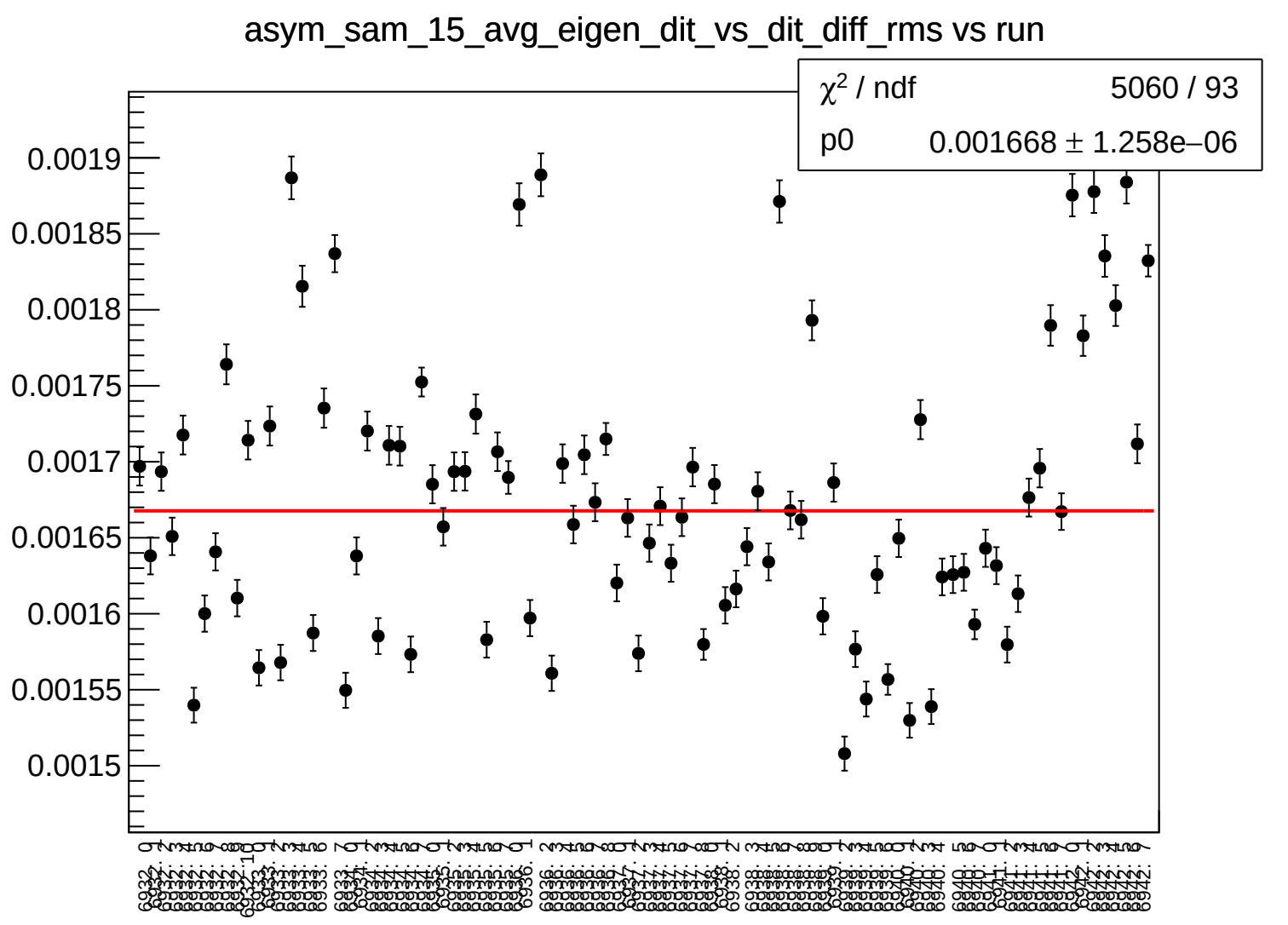

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.159e+04 / 93
p0 21.56 ± 0.01629
38
36
34
32
30
28
26
24
22
20
18

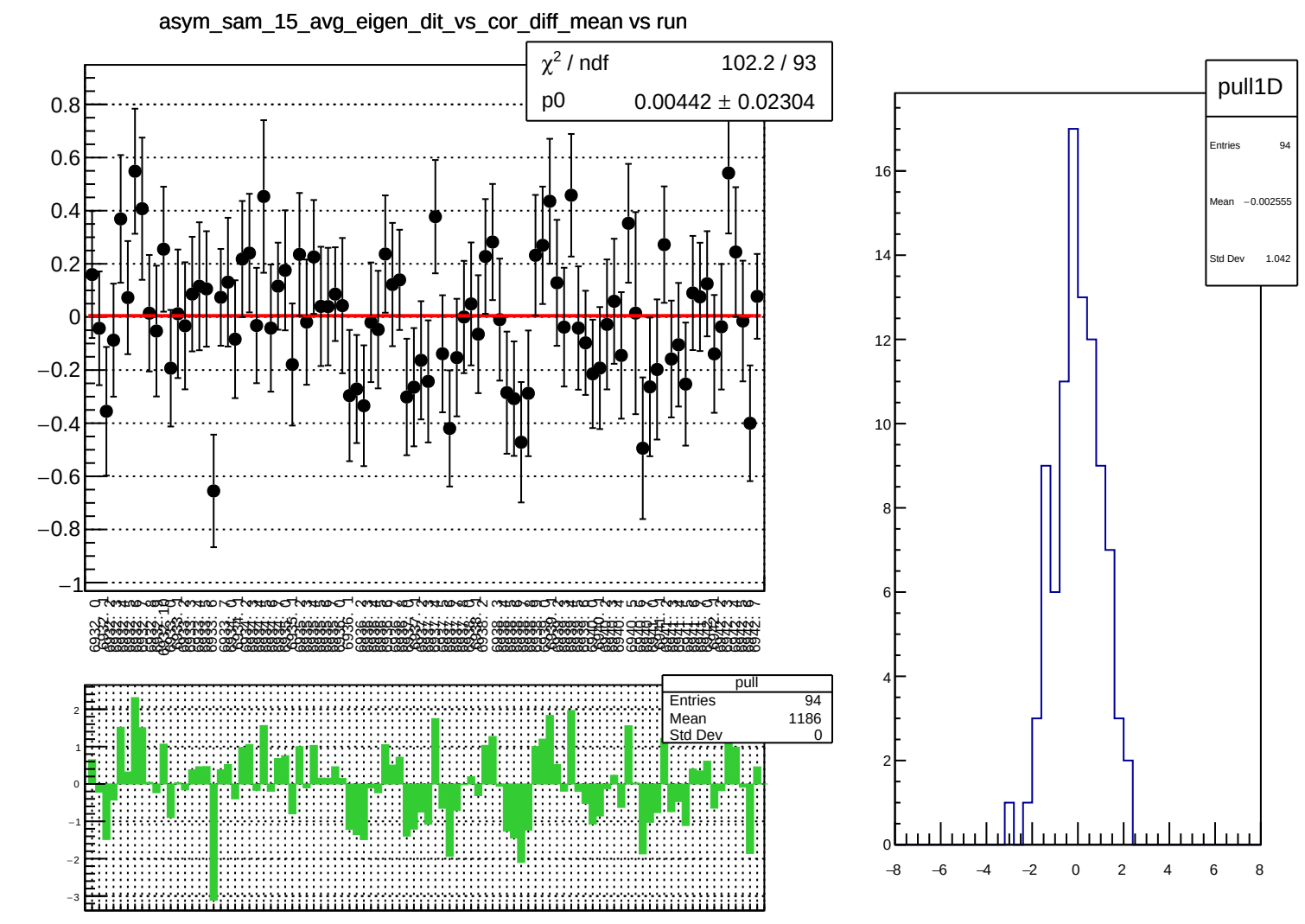

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 93
p0 0.004419 ± 0.02304
pull
Entries 94
Mean 1186
Std Dev 0
pull1D
Entries 94
Mean −0.002557
Std Dev 1.042

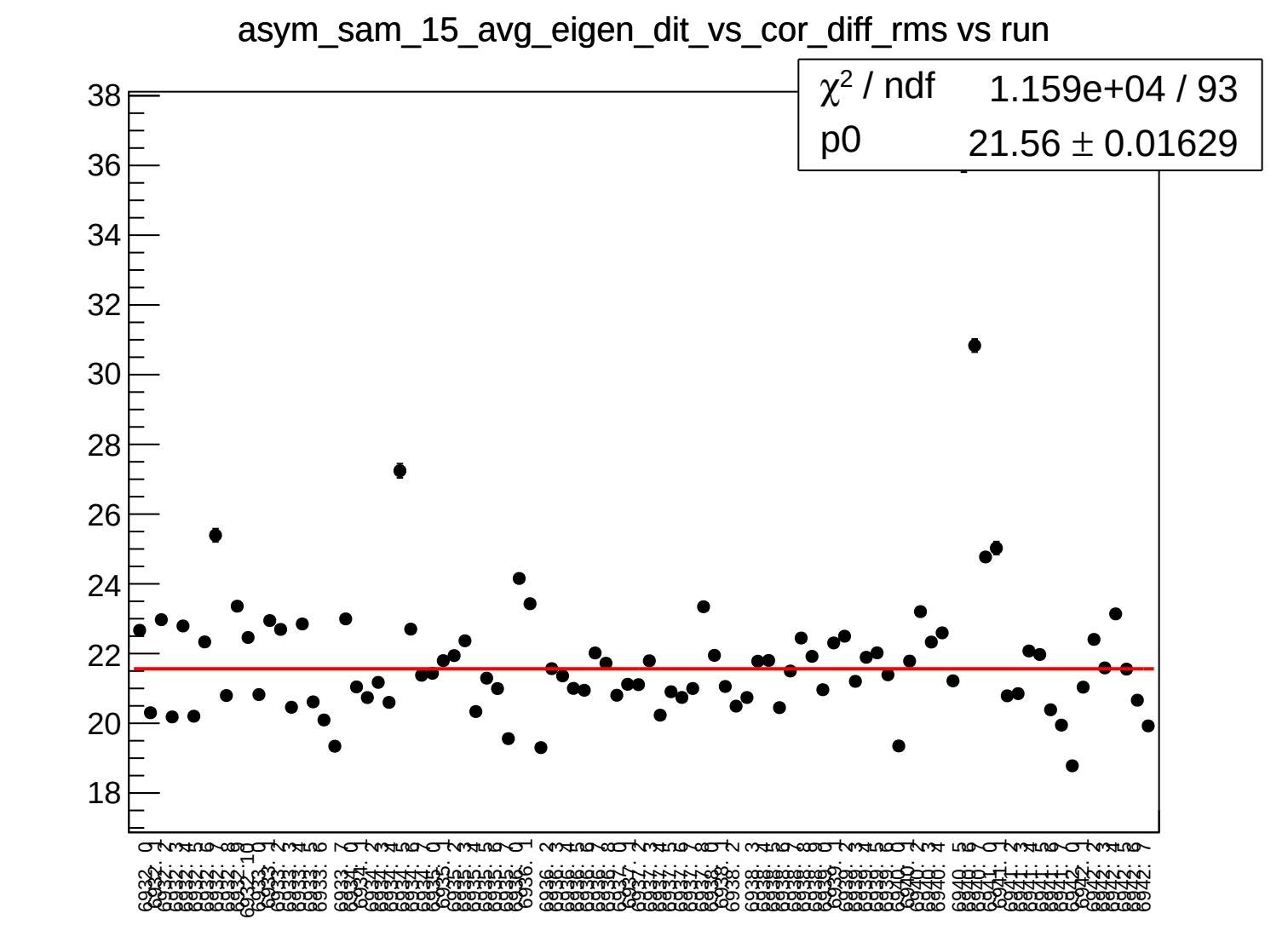

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.159e+04 / 93
p0 21.56 ± 0.01629
38
36
34
32
30
28
26
24
22
20
18

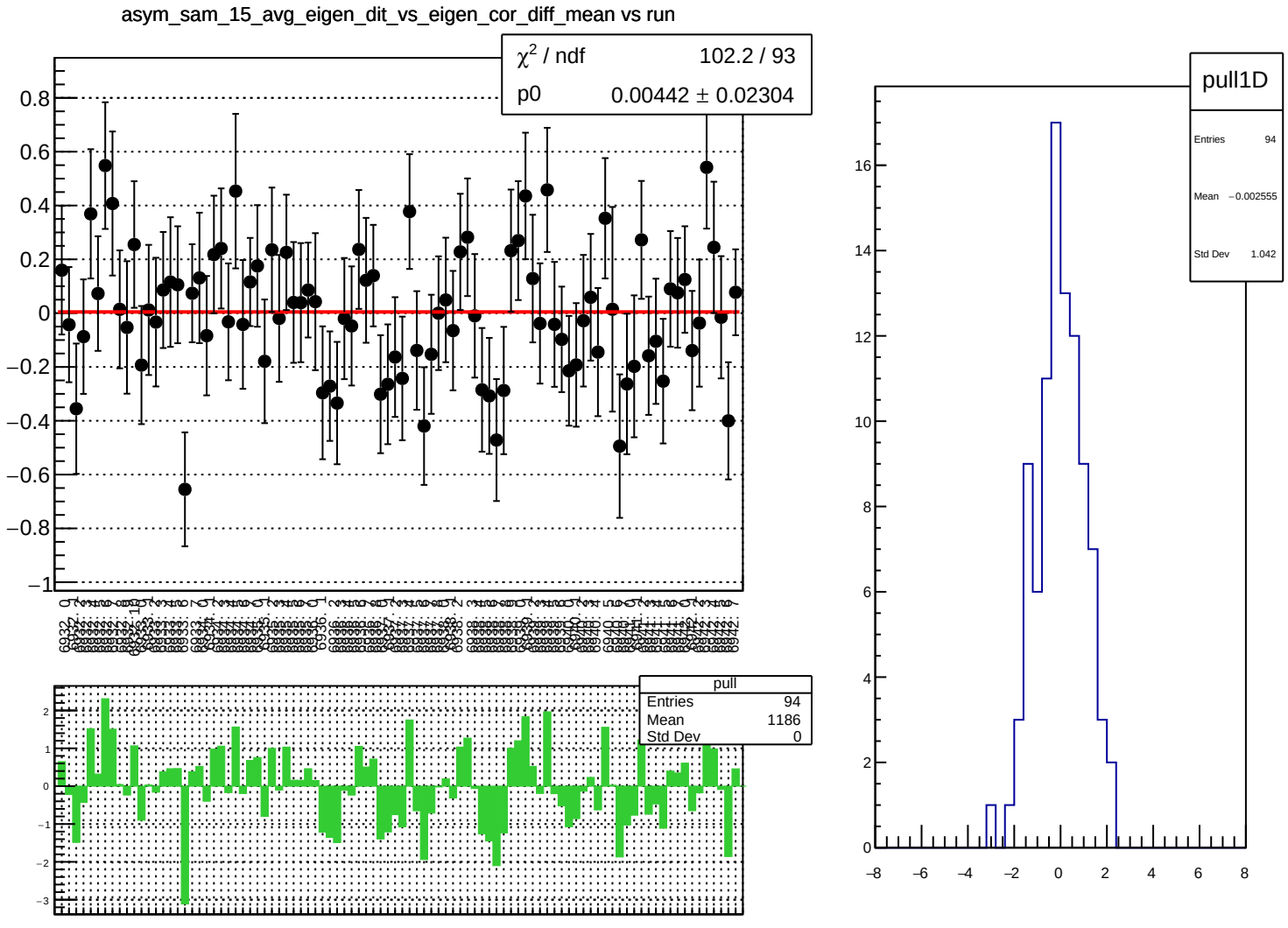

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.92 / 93
p0 2.166e−06 ± 1.778e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 269.9
Std Dev 0
2
1
0
−1
−2

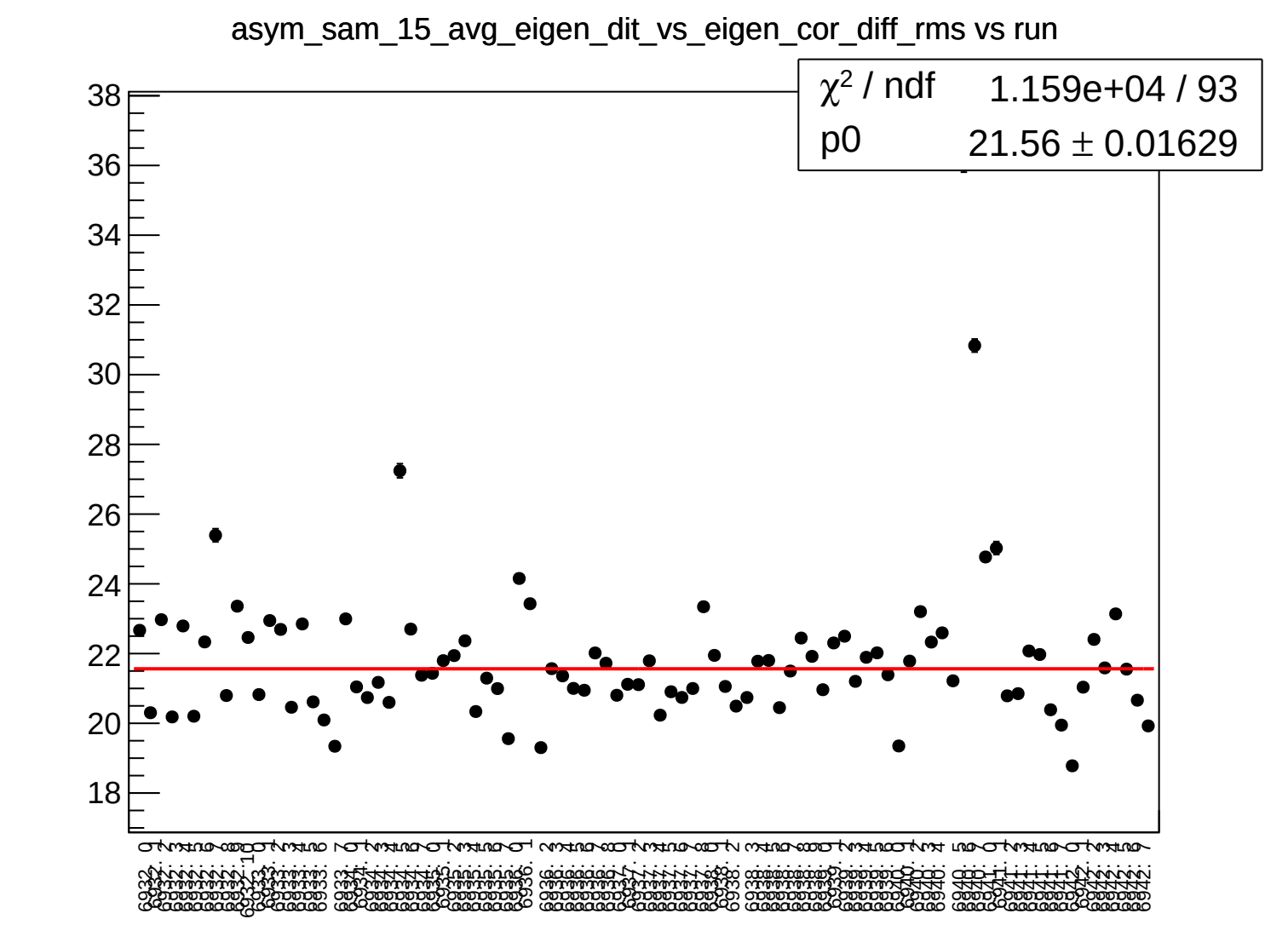

pull1D
Entries 94
Mean −0.01062
Std Dev 0.9888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

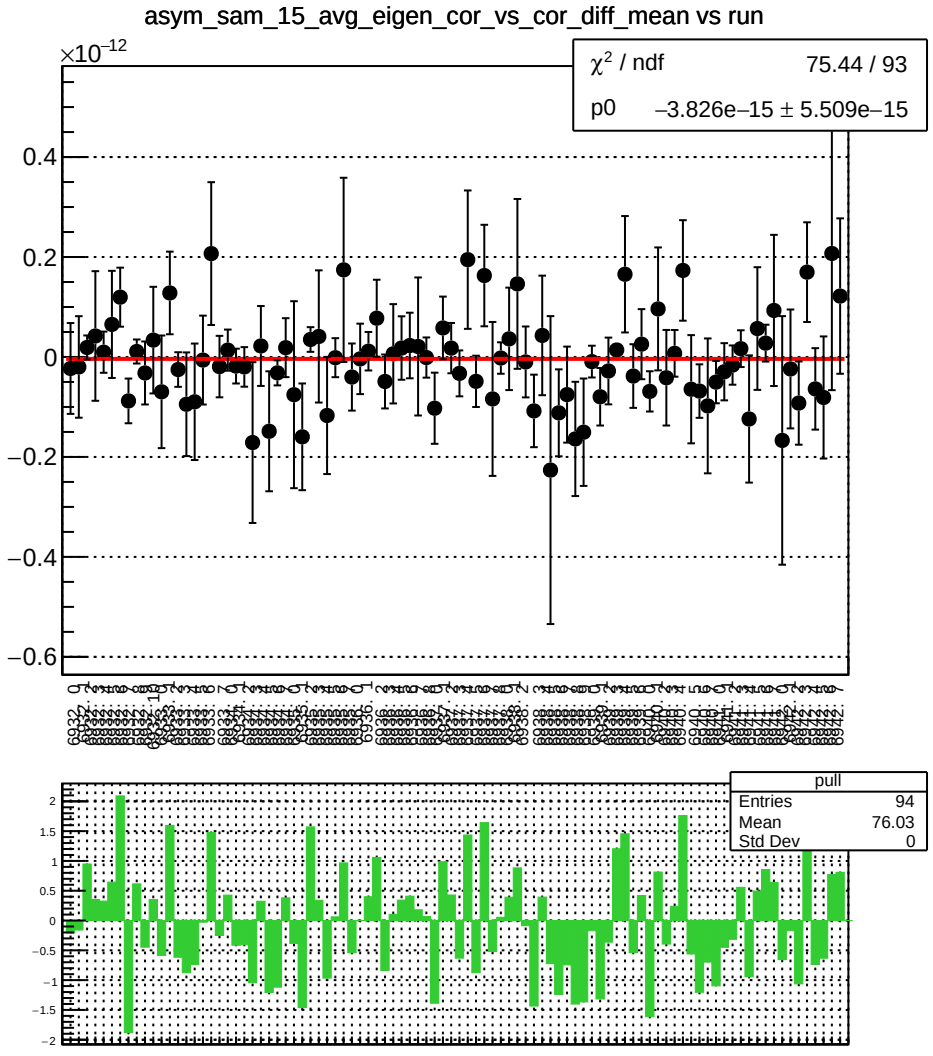

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5060 / 93
p0 0.001668 ± 1.258e−06
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015

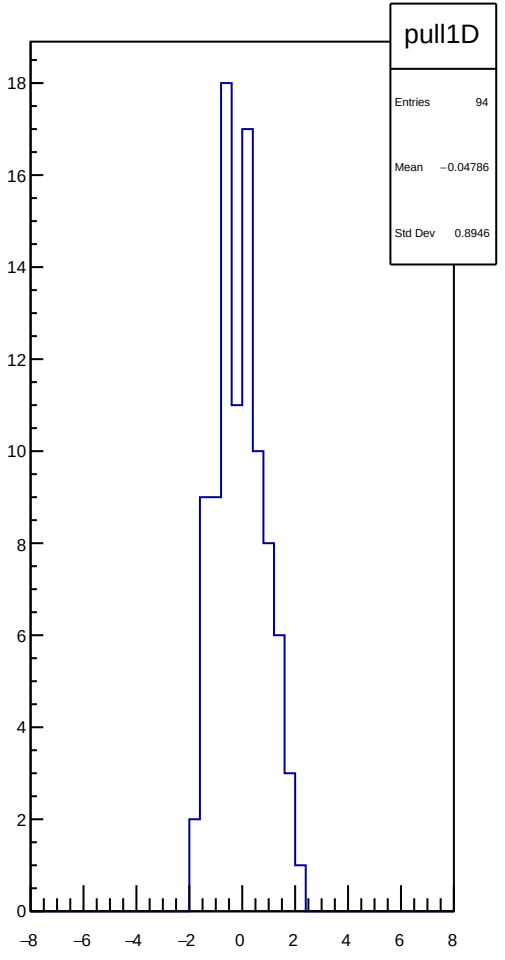

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 93
p0 0.00442 ± 0.02304
pull
Entries 94
Mean 1186
Std Dev 0
pull1D
Entries 94
Mean −0.002555
Std Dev 1.042

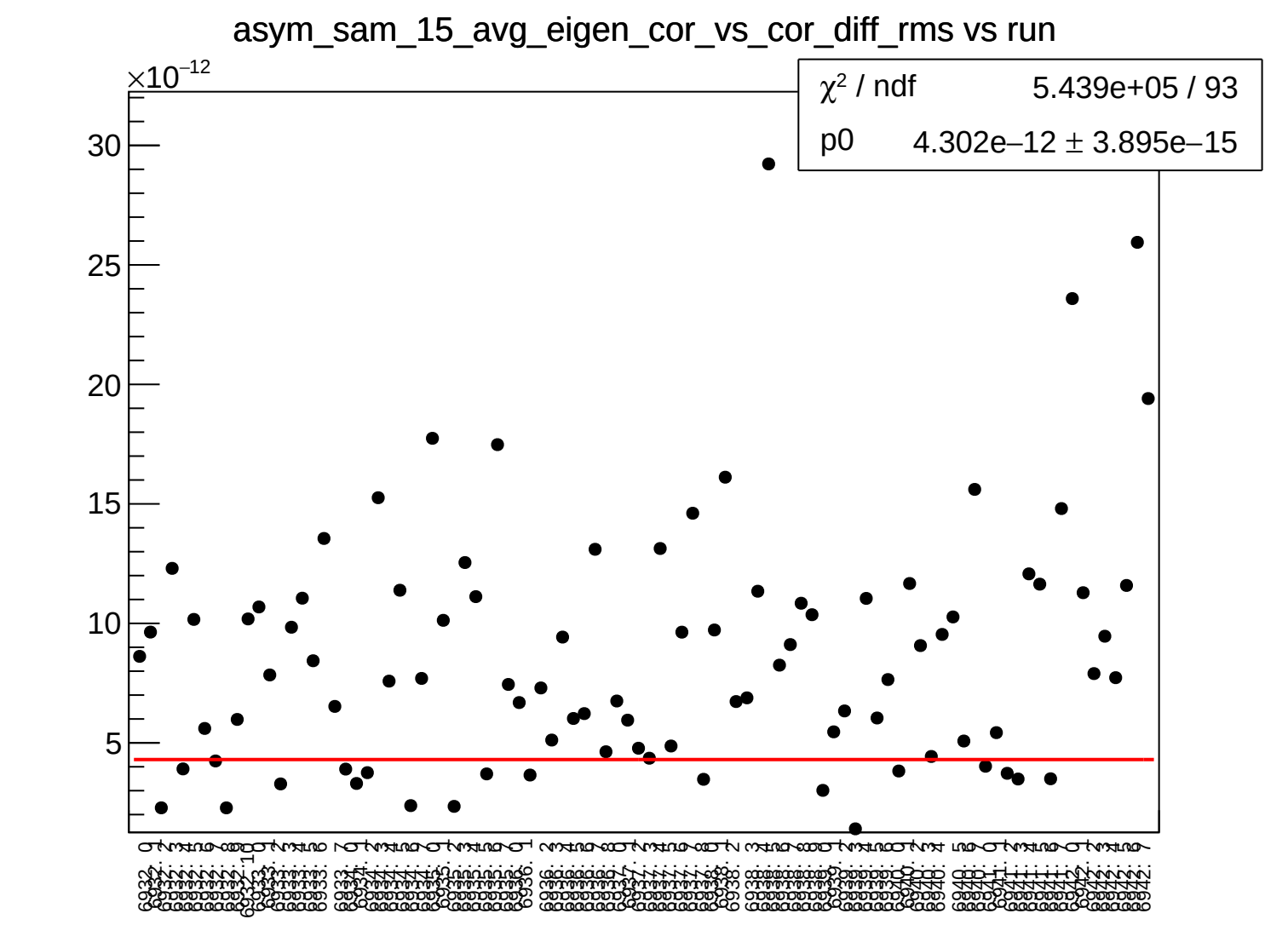

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.159e+04 / 93
p0 21.56 ± 0.01629
38
36
34
32
30
28
26
24
22
20
18

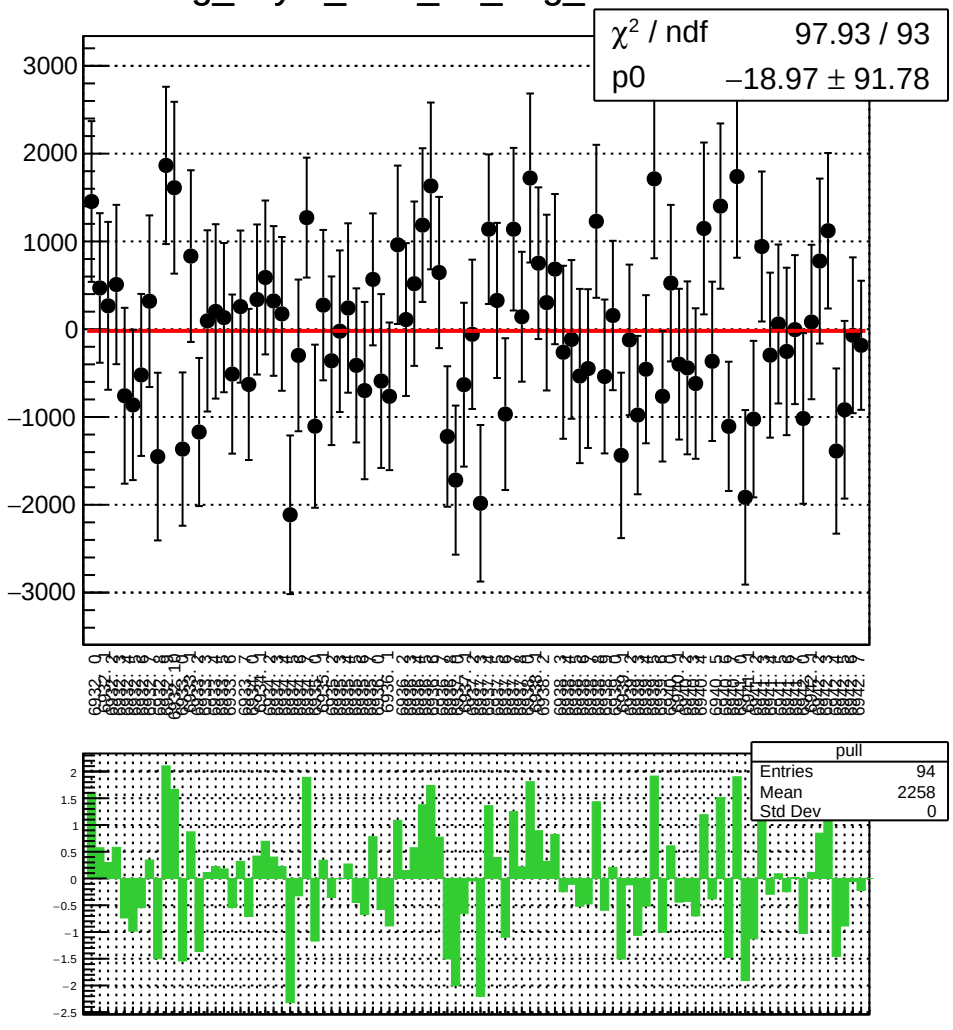

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.2 / 93
p0 0.00442 ± 0.02304
pull
Entries 94
Mean 1186
Std Dev 0
pull1D
Entries 94
Mean −0.002555
Std Dev 1.042

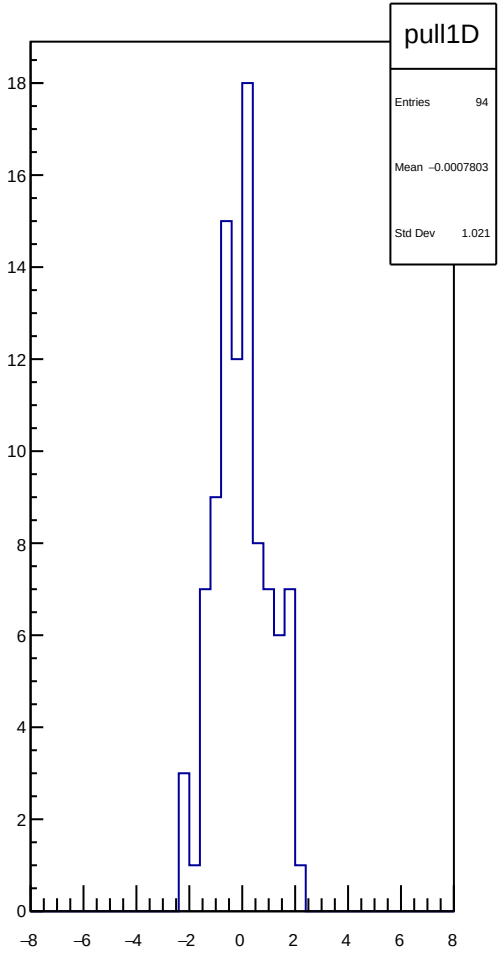

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.159e+04 / 93
p0 21.56 ± 0.01629
38
36
34
32
30
28
26
24
22
20
18

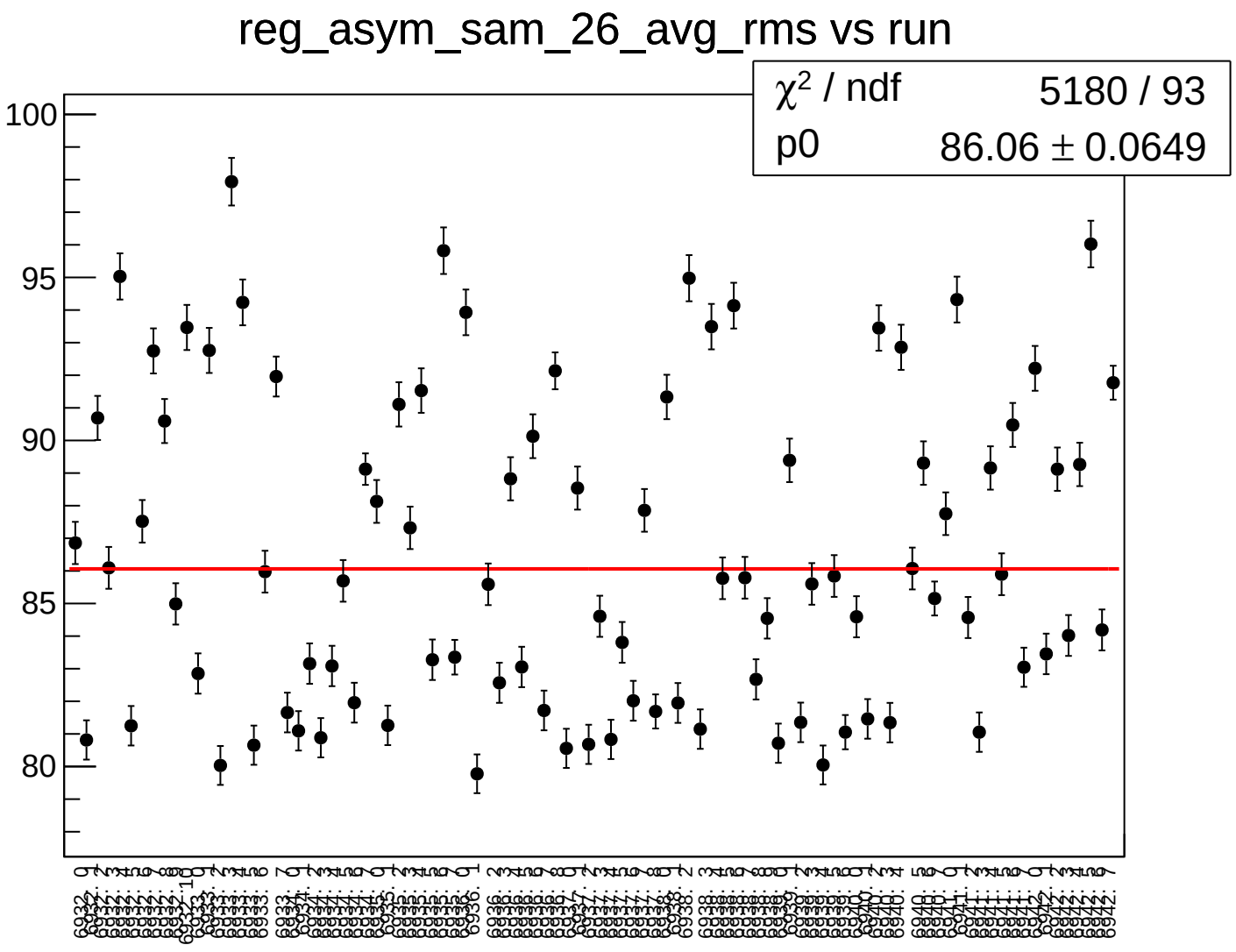

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 75.44 / 93
p0 −3.826e−15 ± 5.509e−15
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 76.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

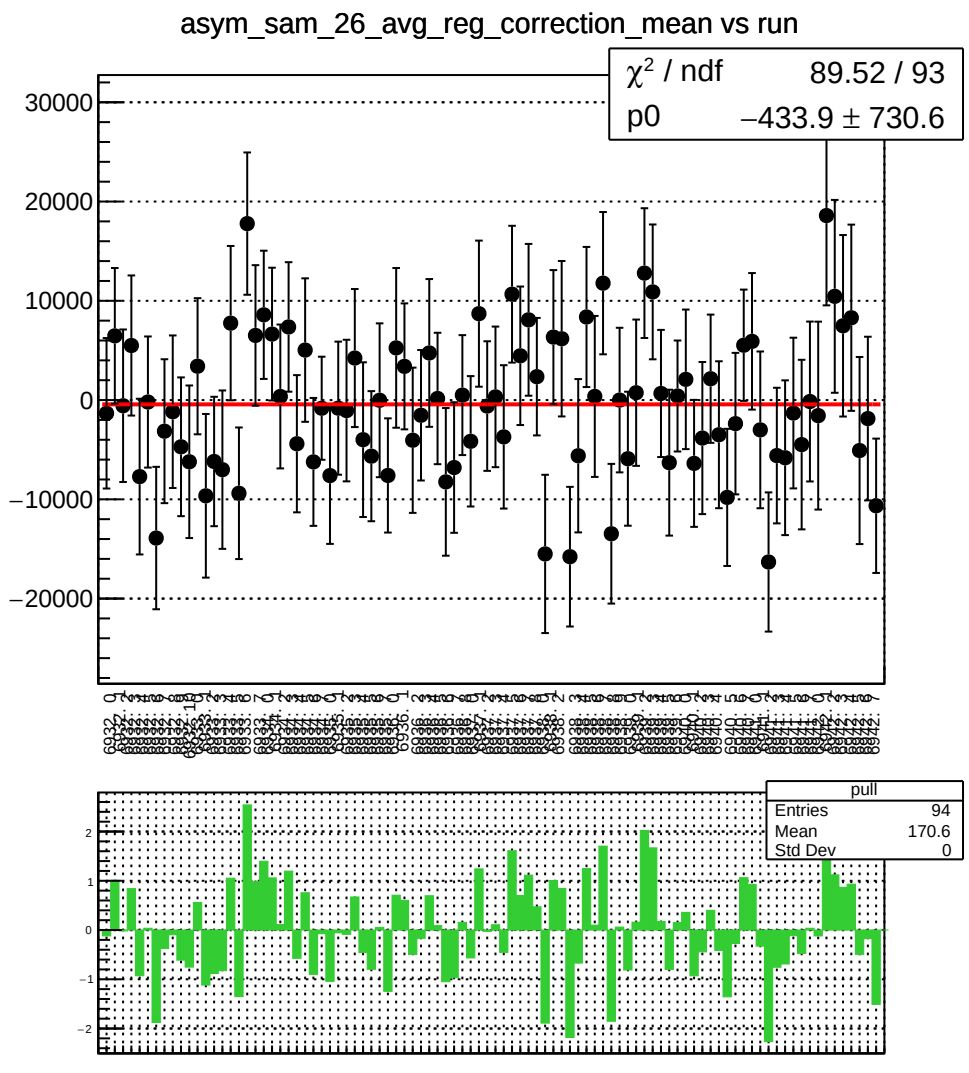

pull1D
Entries 94
Mean −0.04786
Std Dev 0.8946
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

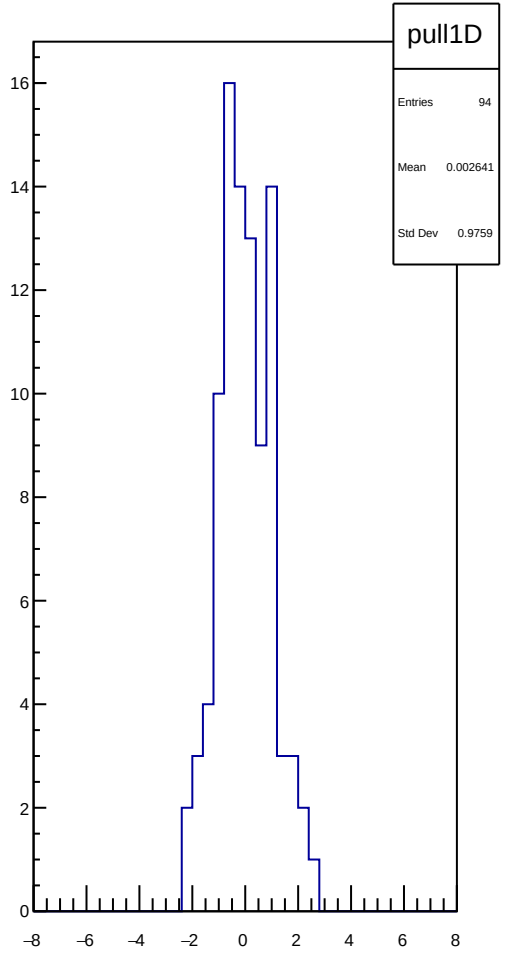

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.439e+05 / 93
p0 4.302e−12 ± 3.895e−15
30
25
20
15
10
5

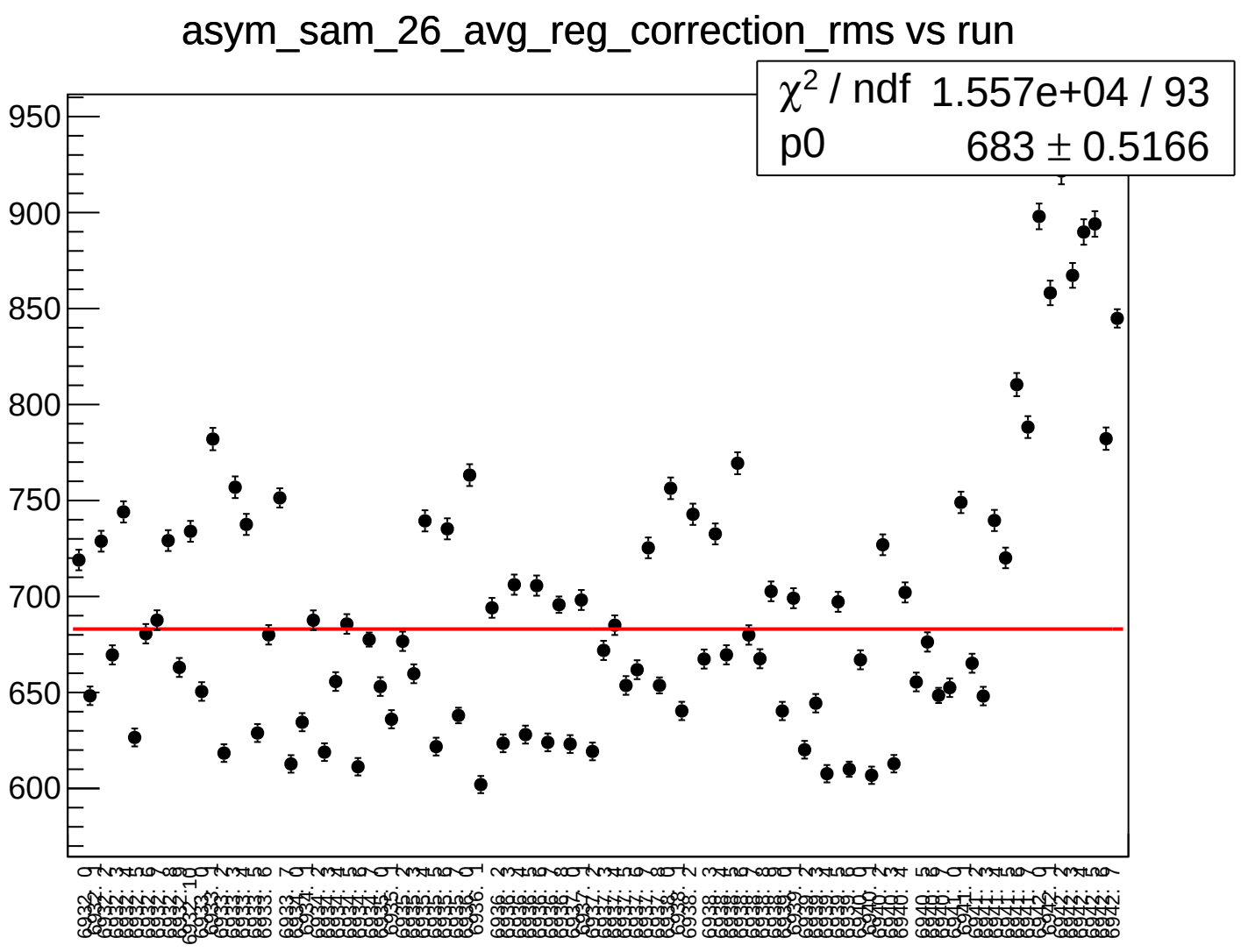

reg_asym_sam_26_avg_mean vs run
χ² / ndf 97.93 / 93
p0 −18.97 ± 91.78
pull
Entries 94
Mean 2258
Std Dev 0

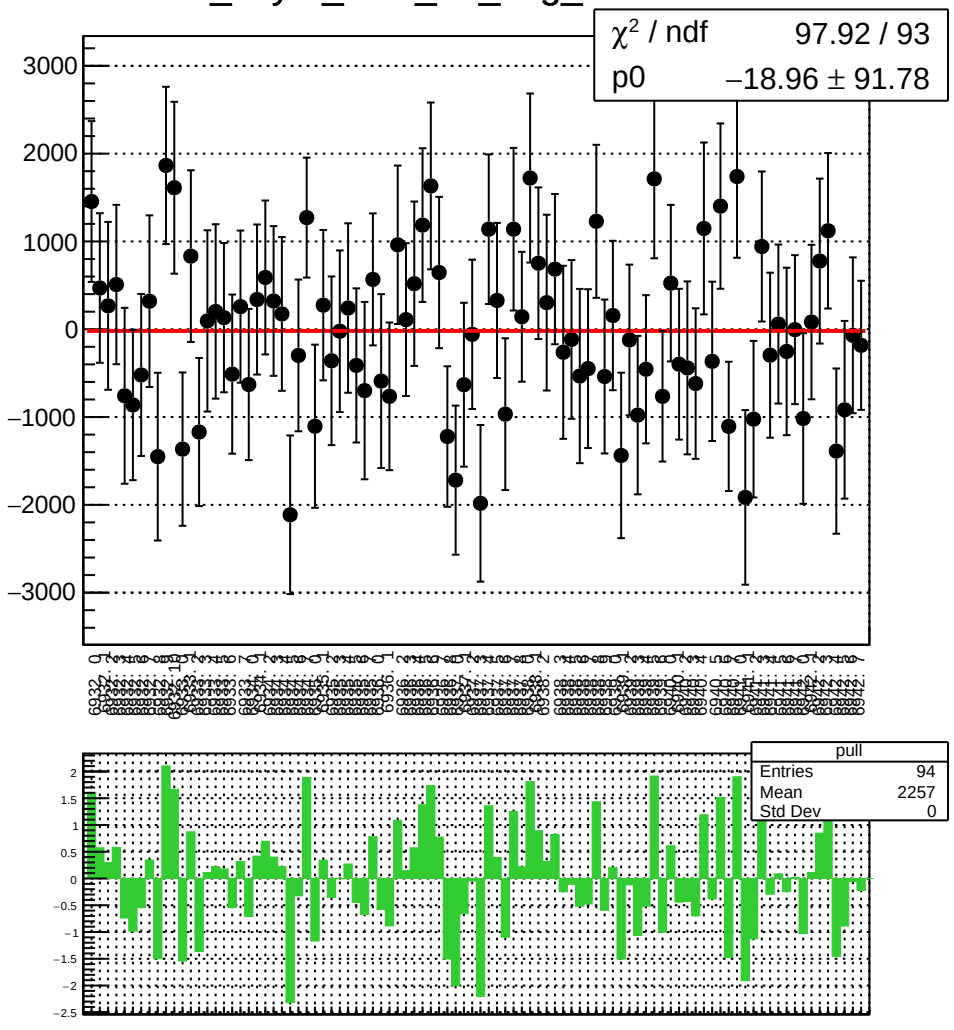

pull1D
Entries 94
Mean −0.0007803
Std Dev 1.021

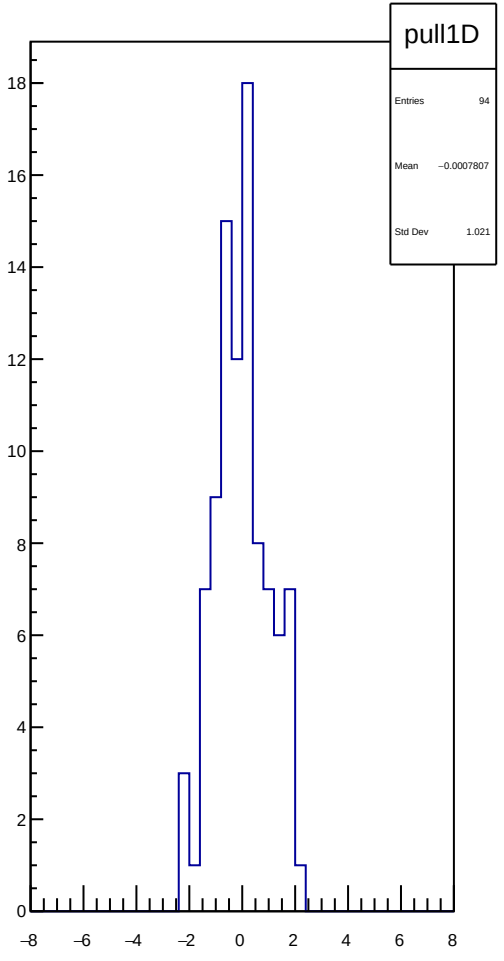

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5180 / 93
p0 86.06 ± 0.0649
100
95
90
85
80

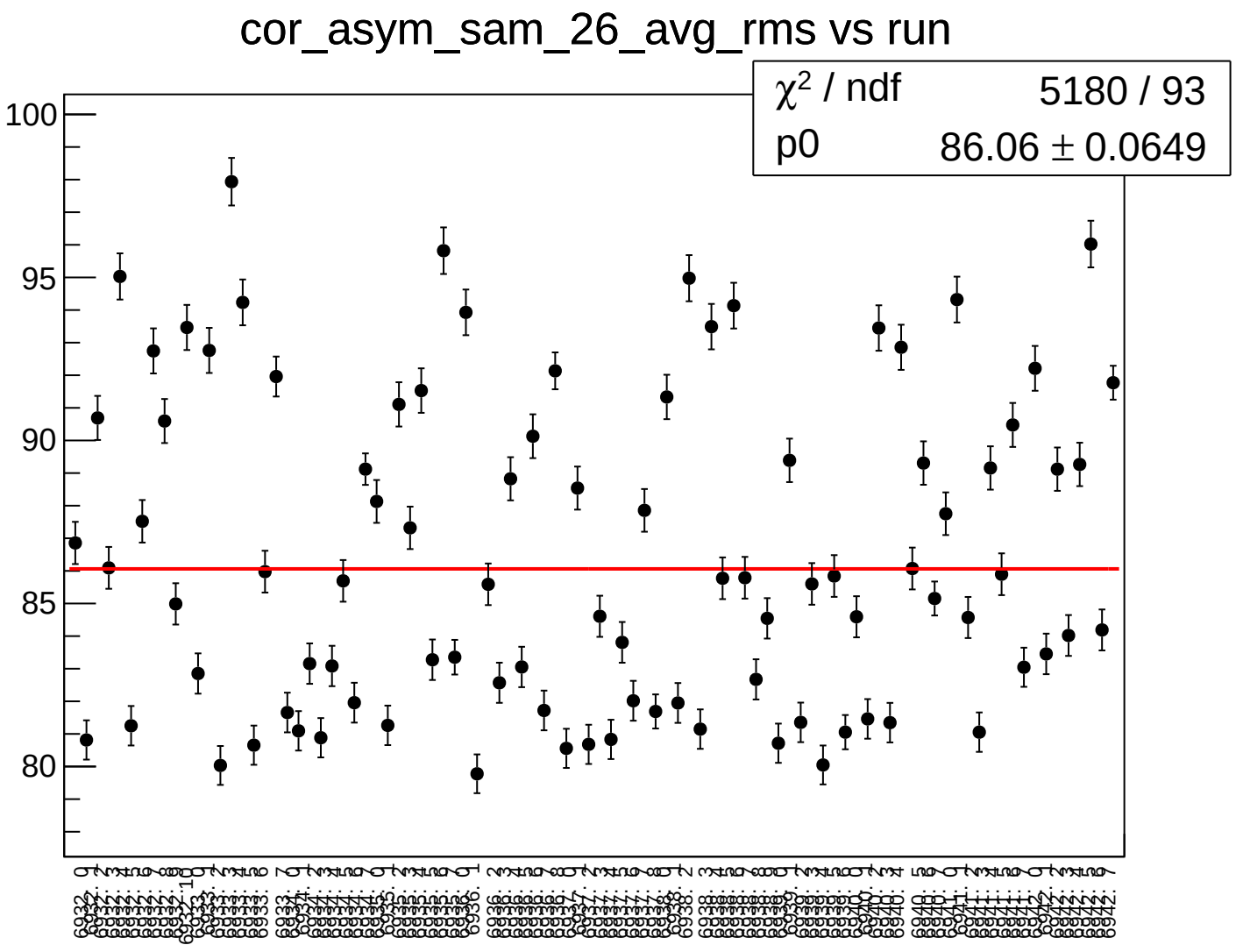

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 89.52 / 93
p0 −433.9 ± 730.6
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 170.6
Std Dev 0
2
1
0
−1
−2

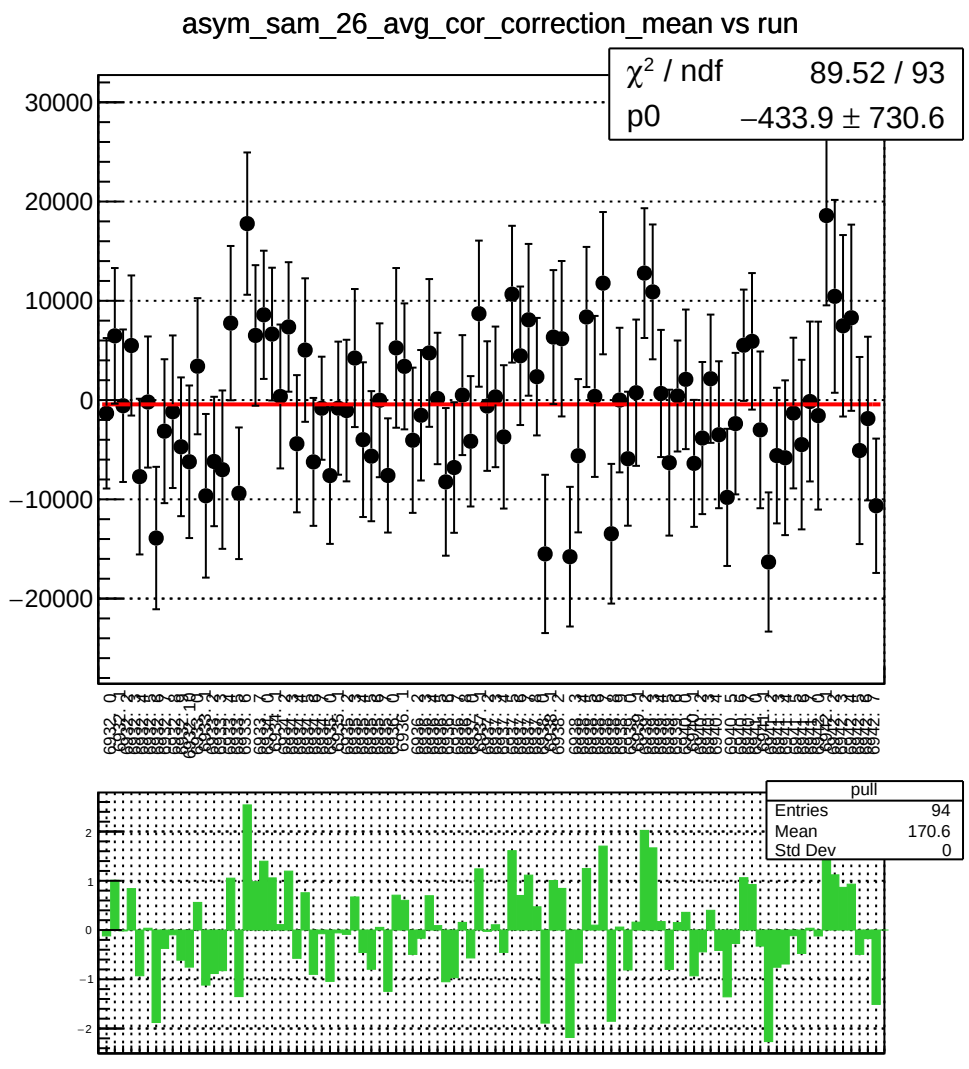

pull1D
Entries 94
Mean 0.002641
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

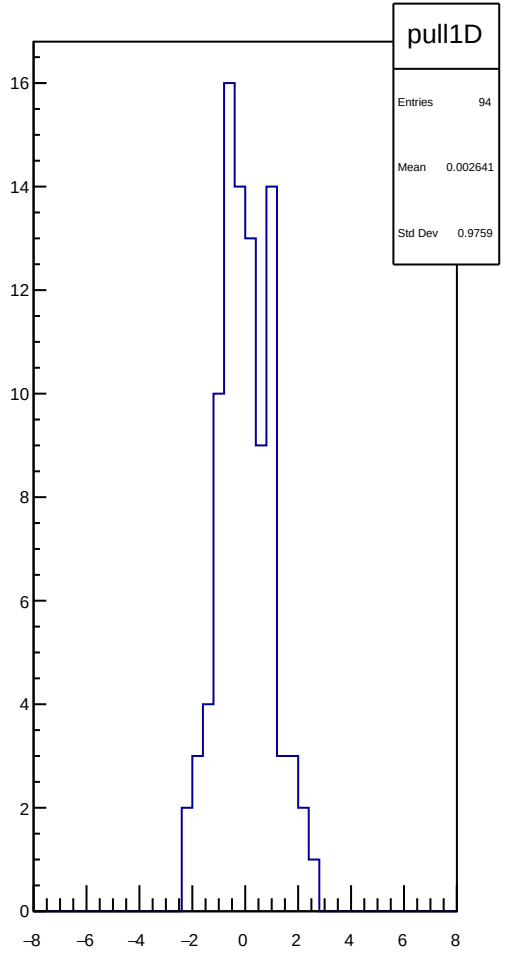

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.557e+04 / 93
p0 683 ± 0.5166
950
900
850
800
750
700
650
600

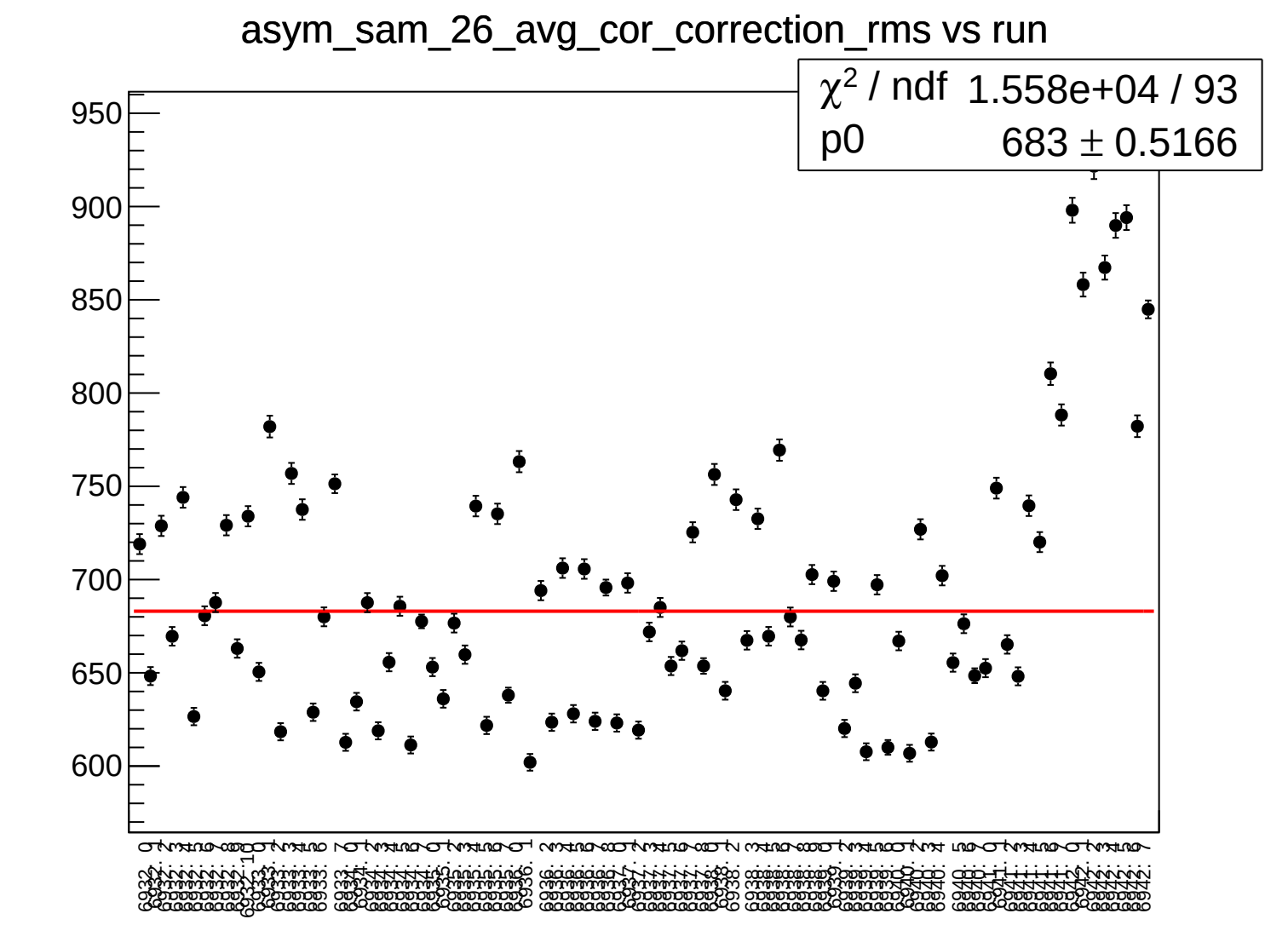

cor_asym_sam_26_avg_mean vs run
χ² / ndf 97.92 / 93
p0 −18.96 ± 91.78
pull
Entries 94
Mean 2257
Std Dev 0

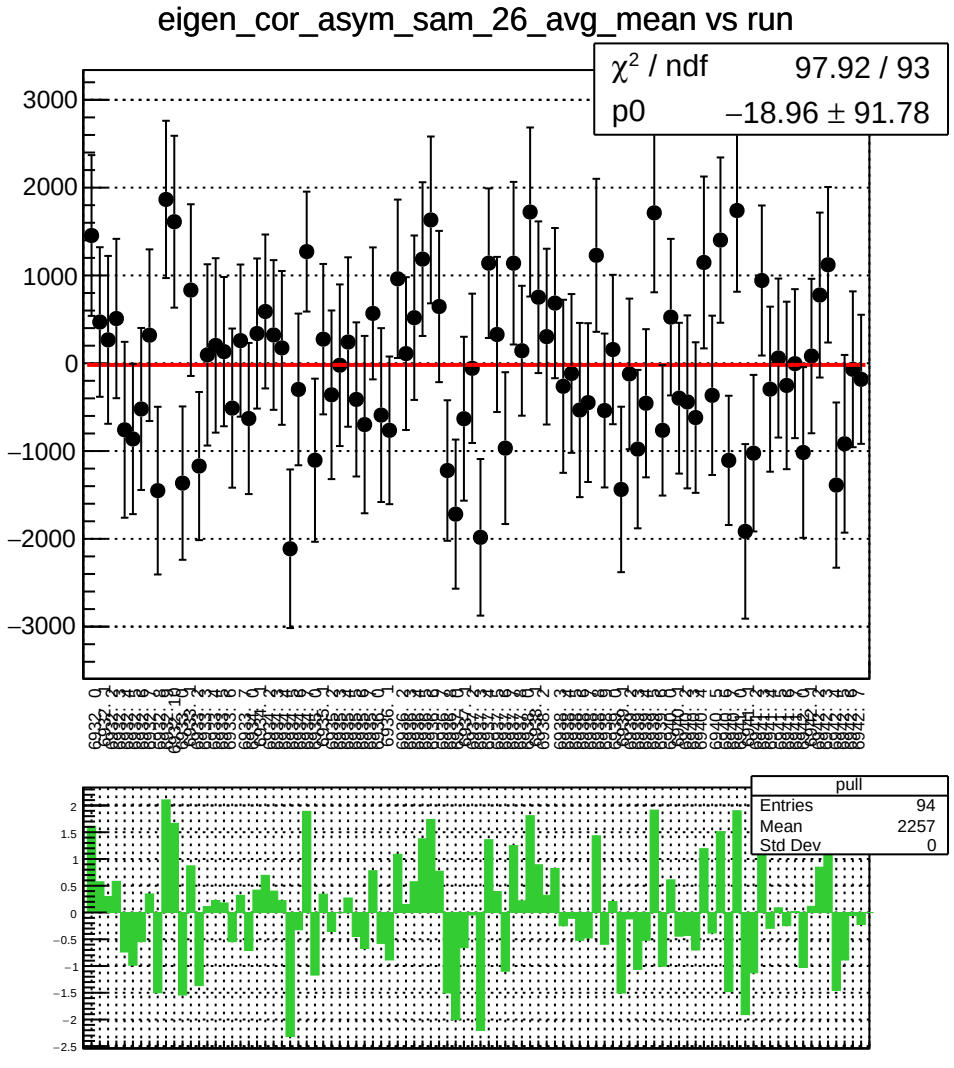

pull1D
Entries 94
Mean −0.0007807
Std Dev 1.021

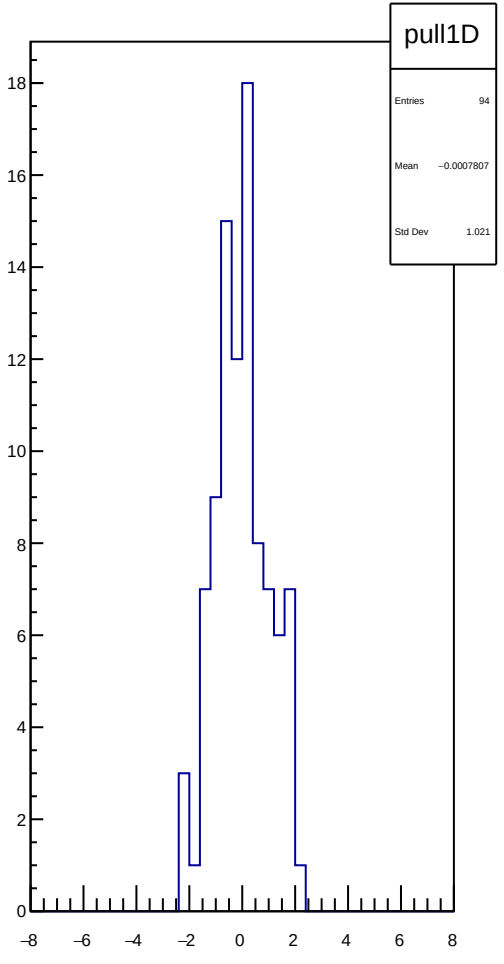

cor_asym_sam_26_avg_rms vs run
χ² / ndf 5180 / 93
p0 86.06 ± 0.0649
100
95
90
85
80

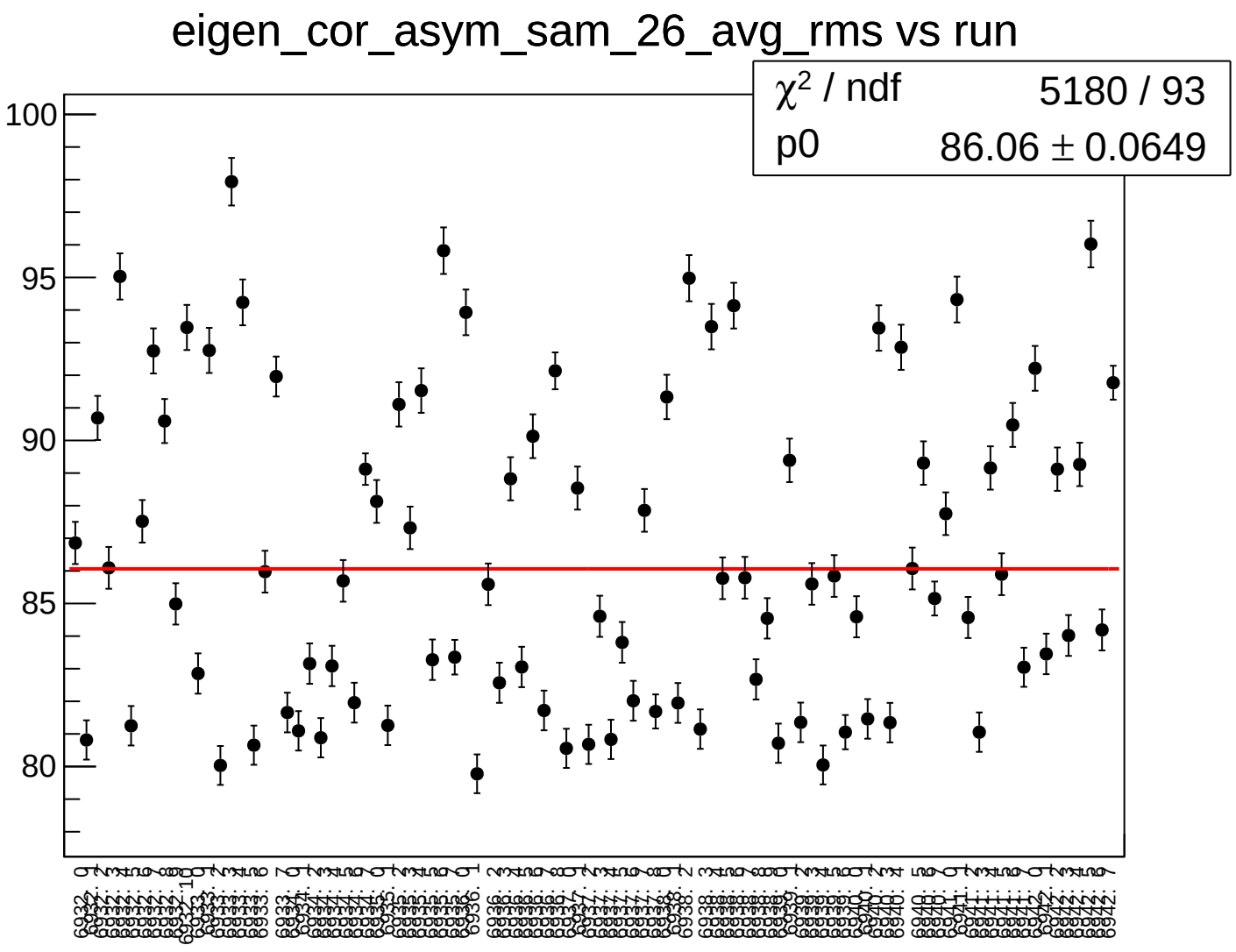

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 89.52 / 93
p0 −433.9 ± 730.6
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 170.6
Std Dev 0
2
1
0
−1
−2

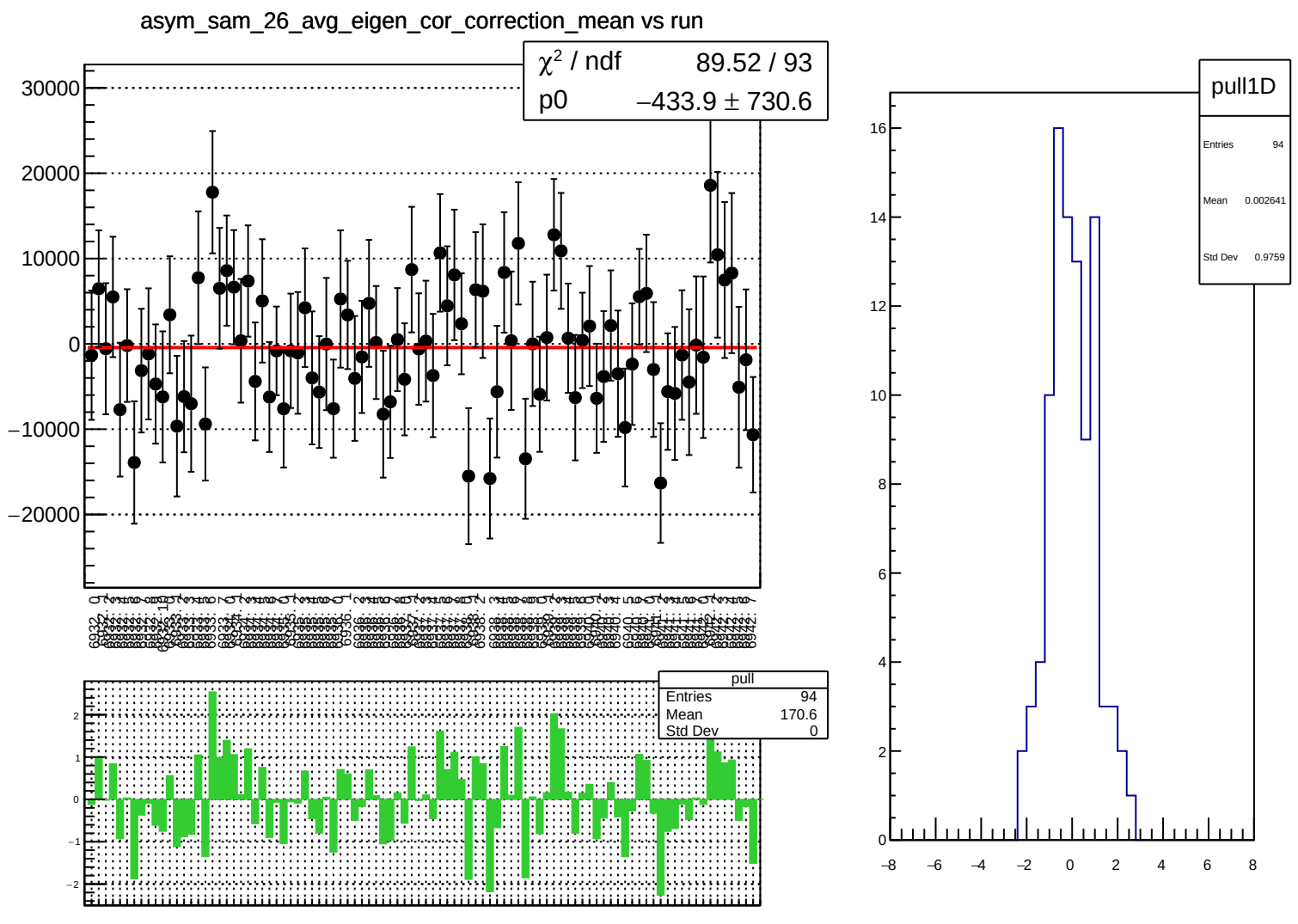

pull1D
Entries 94
Mean 0.002641
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

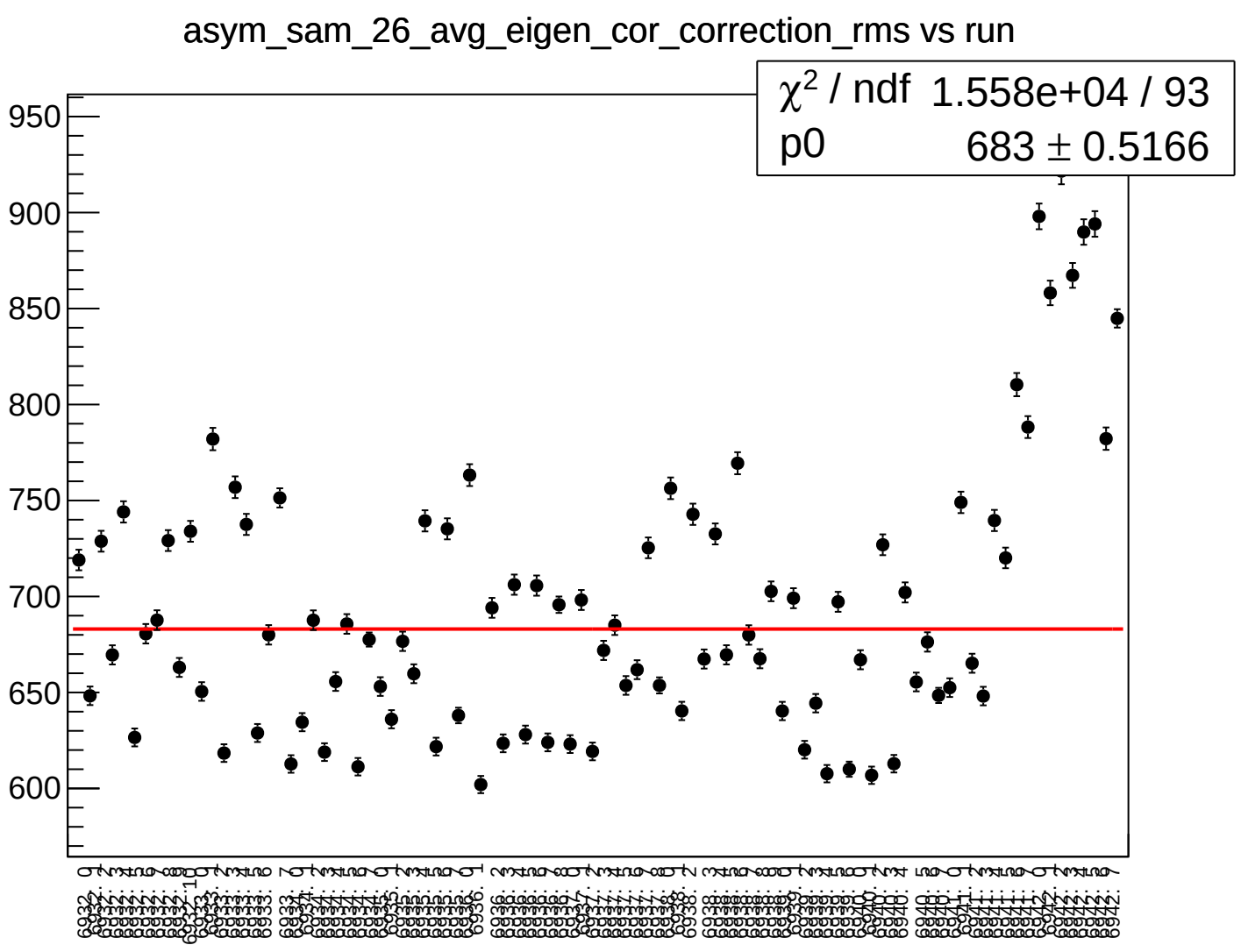

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 93
p0 683 ± 0.5166
950
900
850
800
750
700
650
600

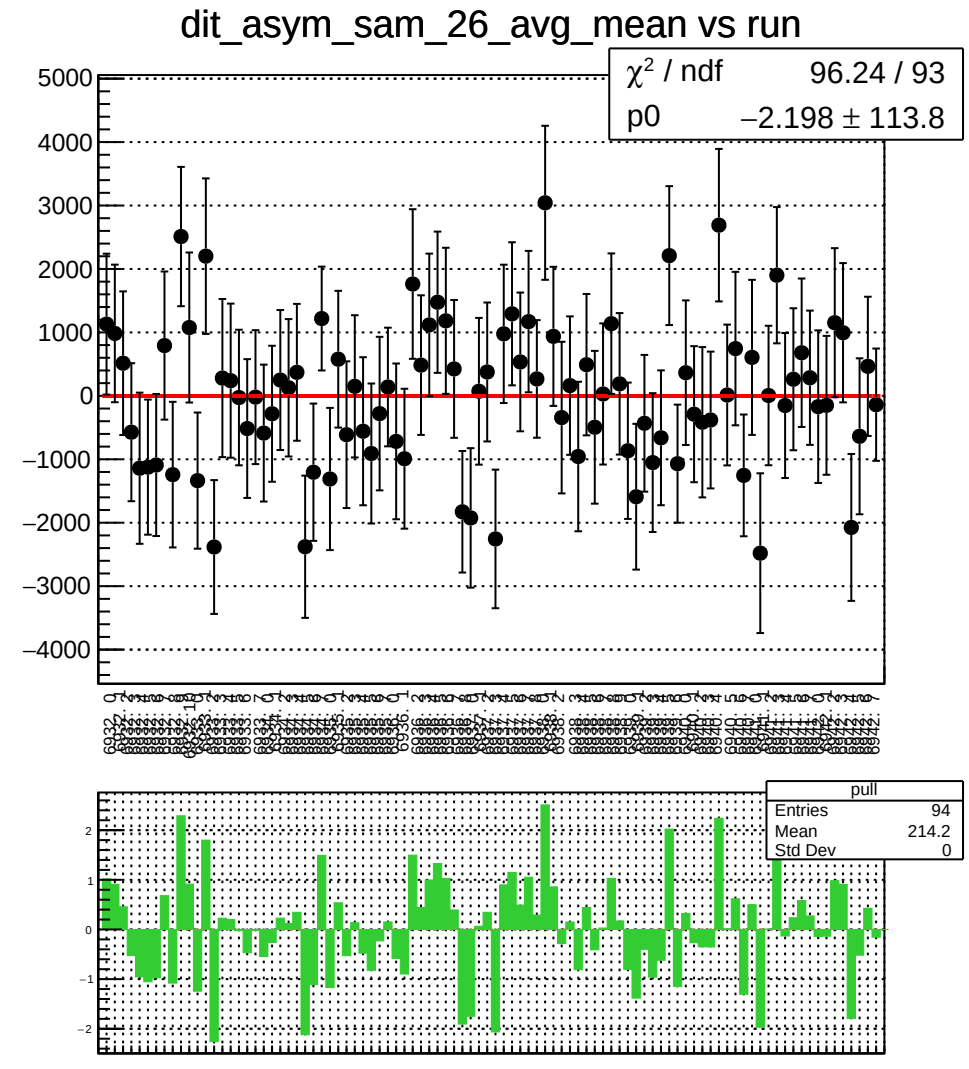

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 97.92 / 93
p0 −18.96 ± 91.78
pull
Entries 94
Mean 2257
Std Dev 0

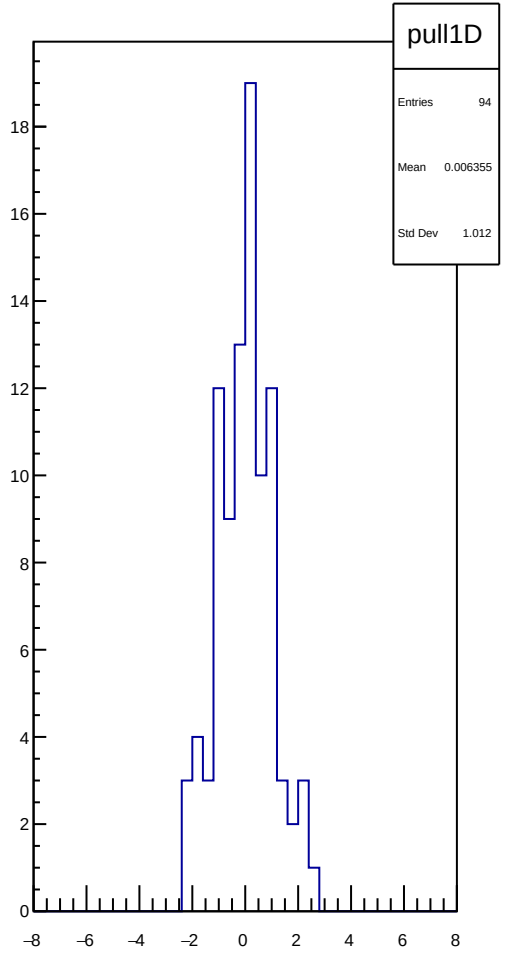

pull1D
Entries 94
Mean −0.0007807
Std Dev 1.021

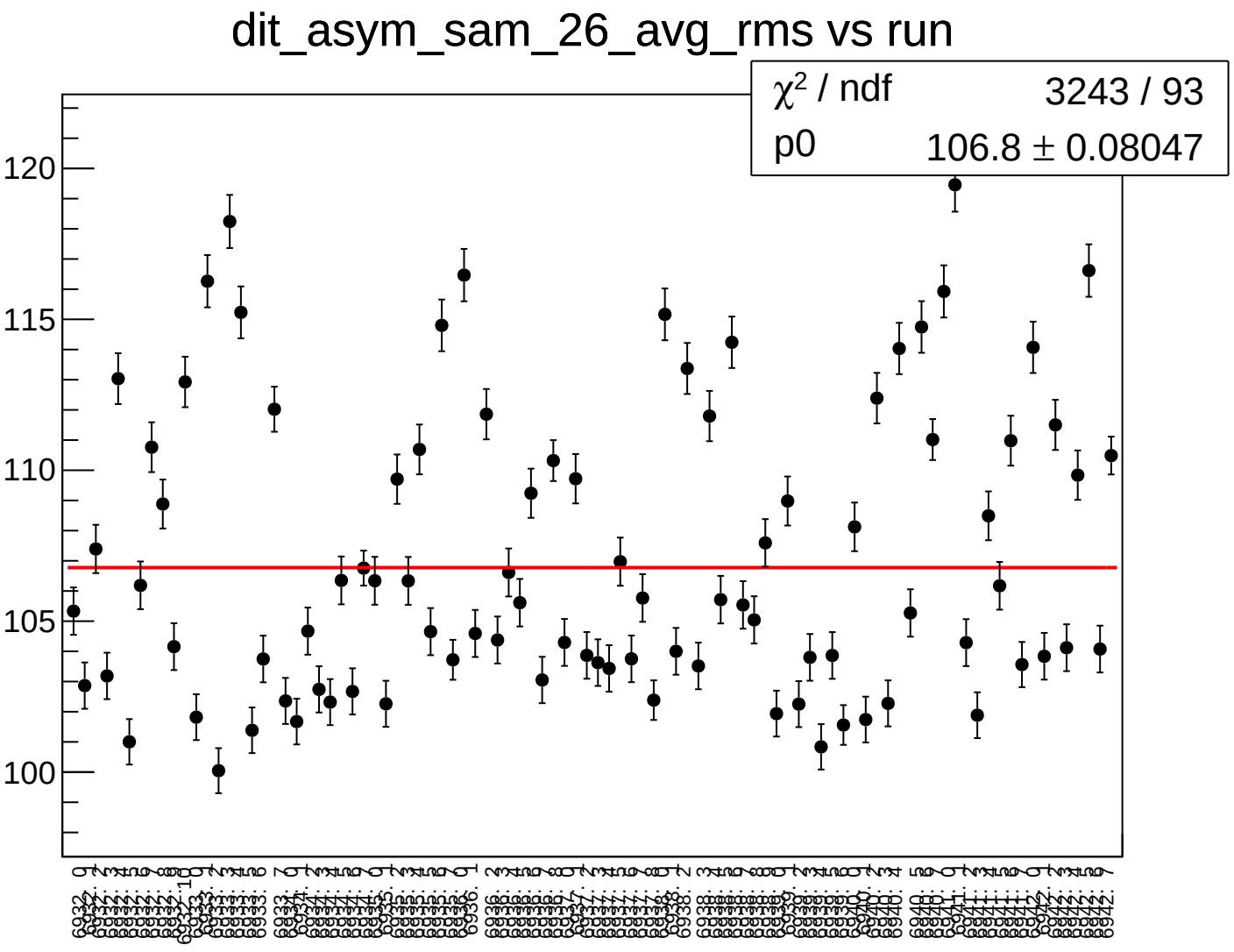

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 5180 / 93
p0 86.06 ± 0.0649
100
95
90
85
80

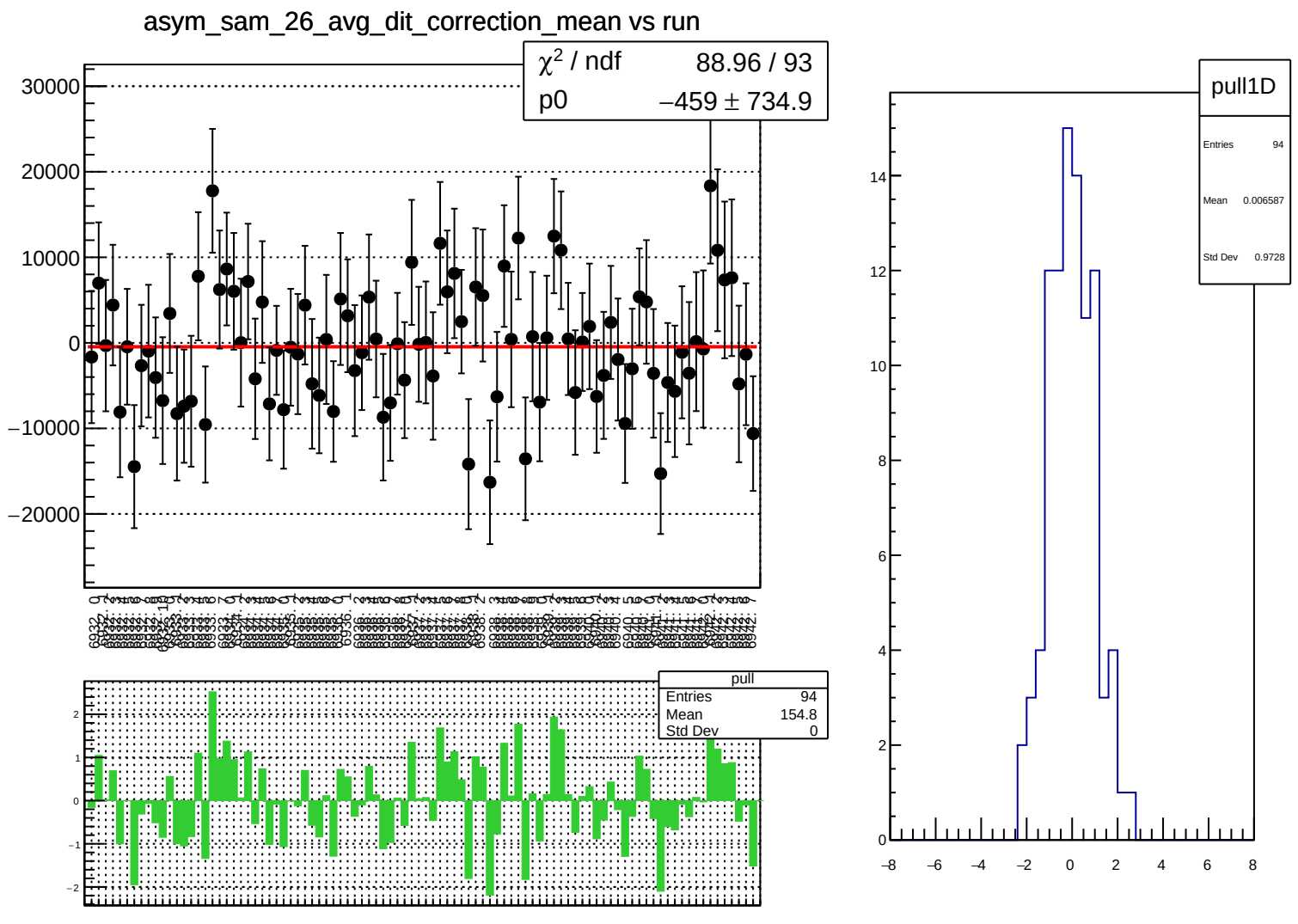

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.52 / 93
p0 −433.9 ± 730.6
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 170.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002641
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

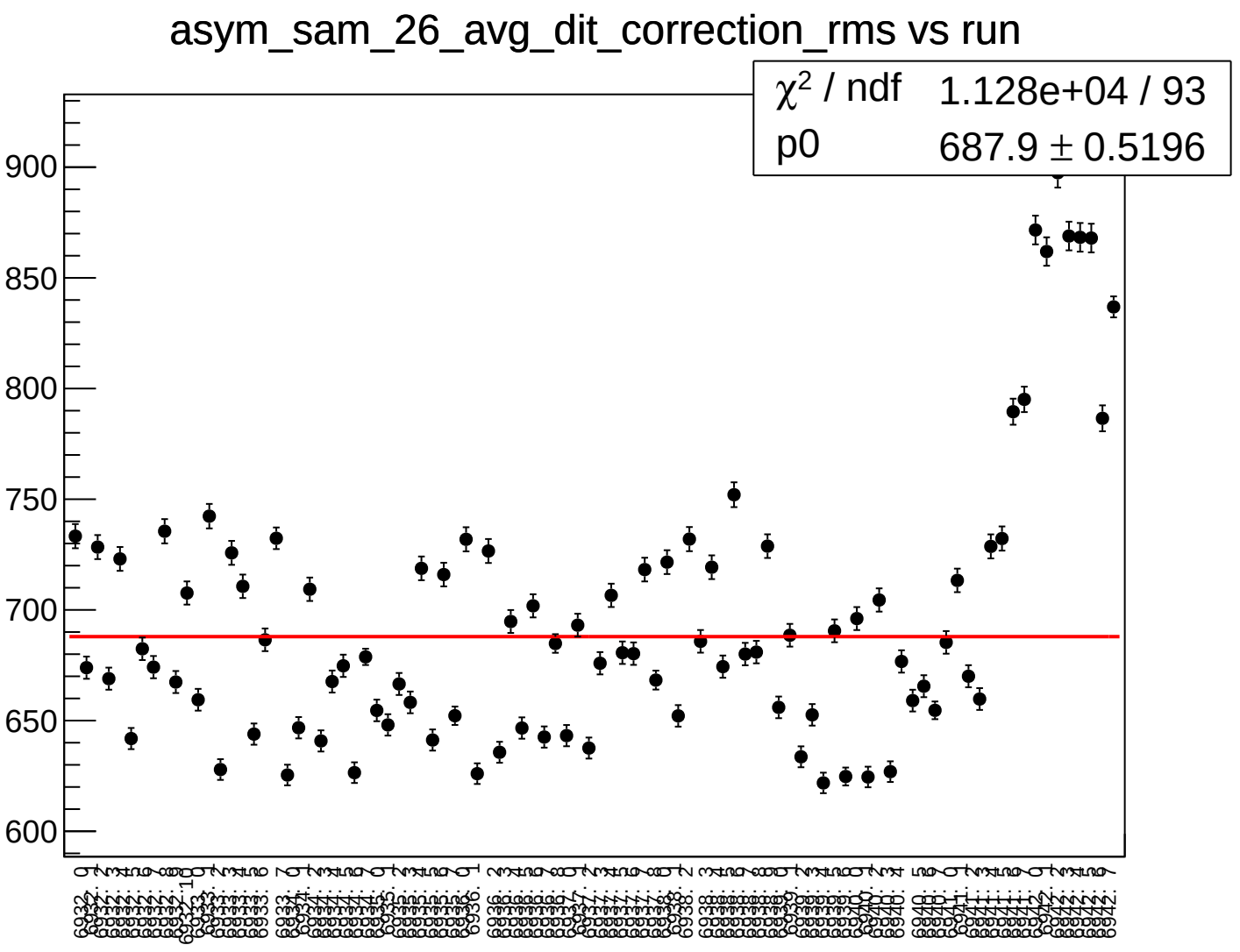

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.558e+04 / 93
p0 683 ± 0.5166
950
900
850
800
750
700
650
600

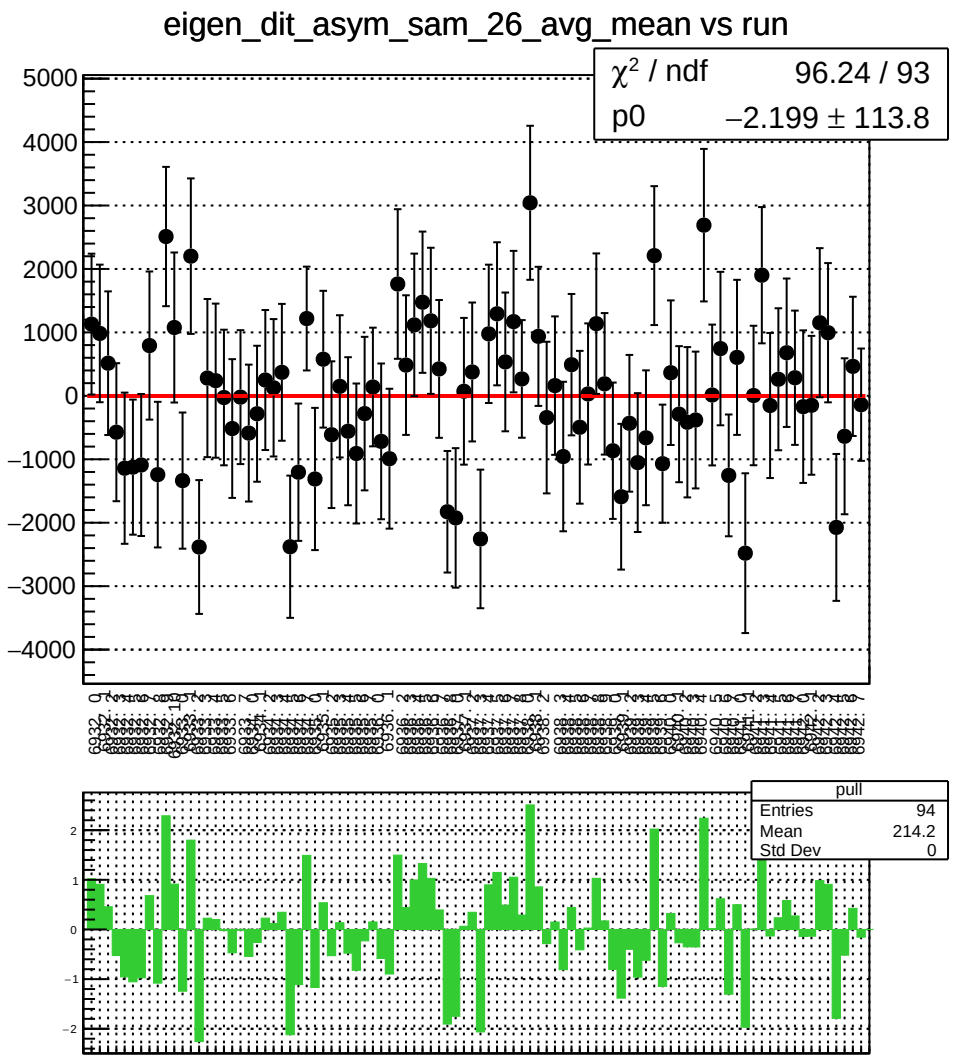

dit_asym_sam_26_avg_mean vs run
χ² / ndf 96.24 / 93
p0 −2.198 ± 113.8
pull
Entries 94
Mean 214.2
Std Dev 0

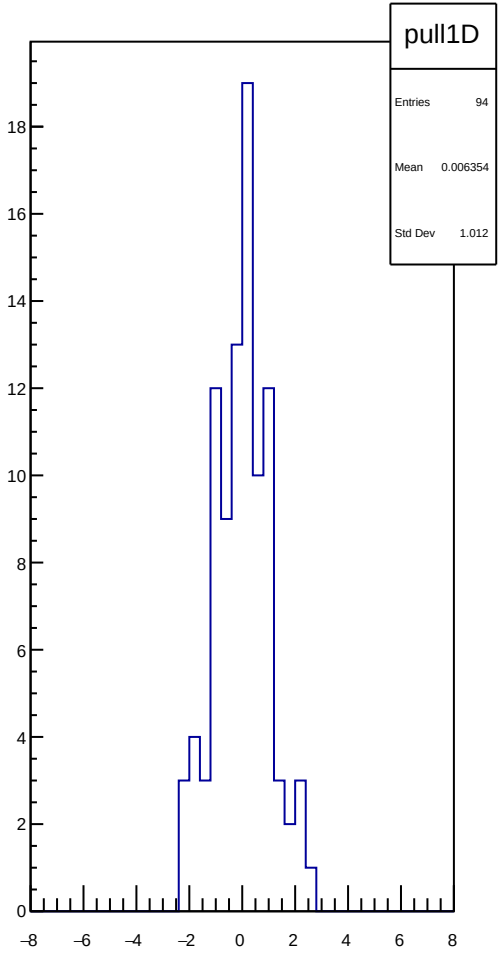

pull1D
Entries 94
Mean 0.006355
Std Dev 1.012

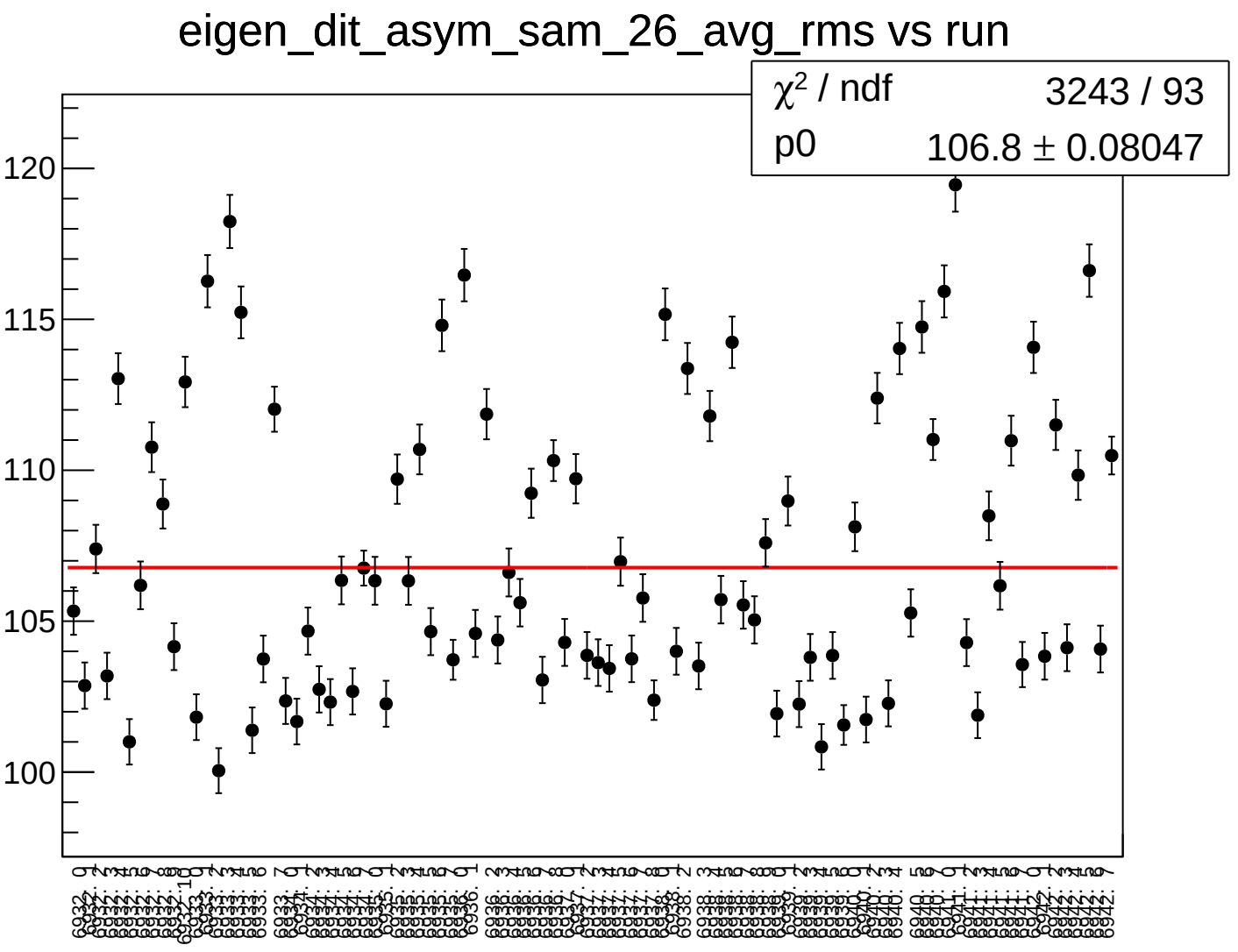

dit_asym_sam_26_avg_rms vs run
χ² / ndf 3243 / 93
p0 106.8 ± 0.08047
120
115
110
105
100

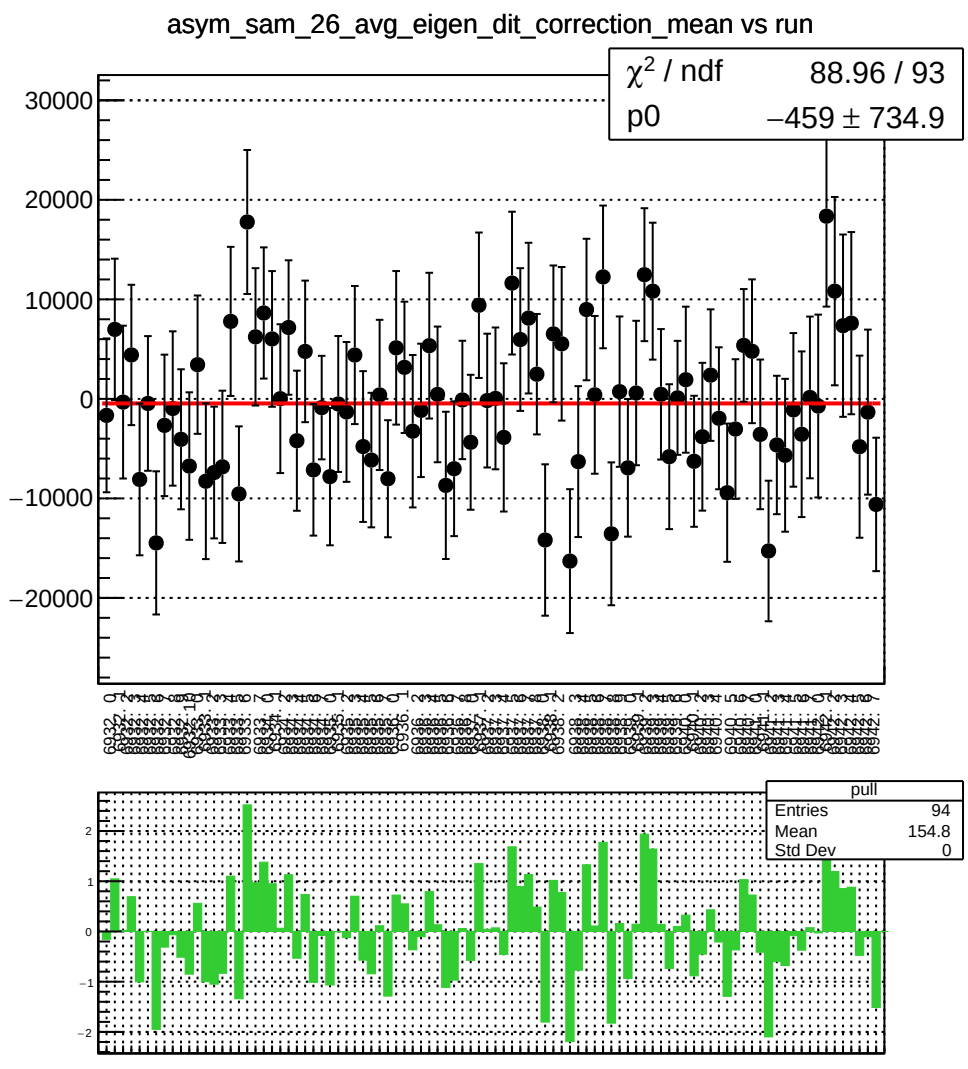

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 88.96 / 93
p0 −459 ± 734.9
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 154.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.006587
Std Dev 0.9728
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

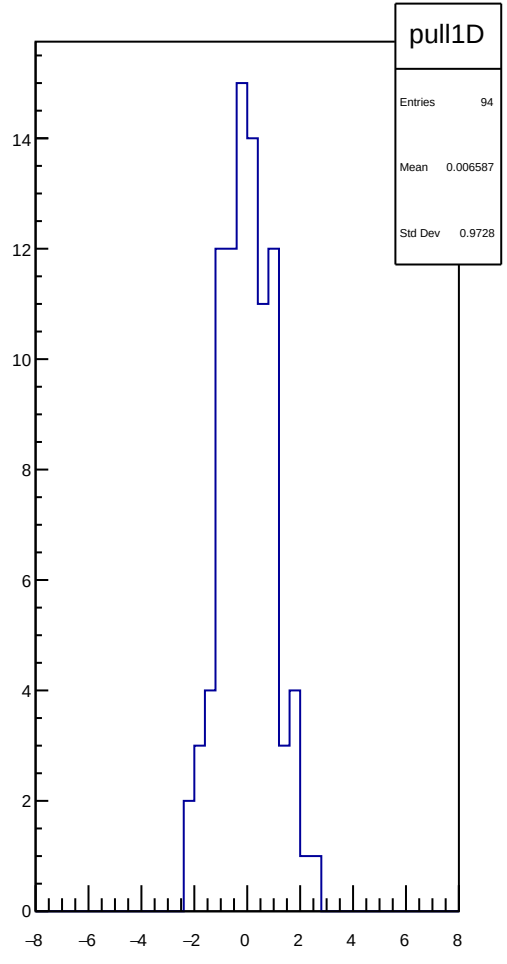

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 1.128e+04 / 93
p0 687.9 ± 0.5196
900
850
800
750
700
650
600

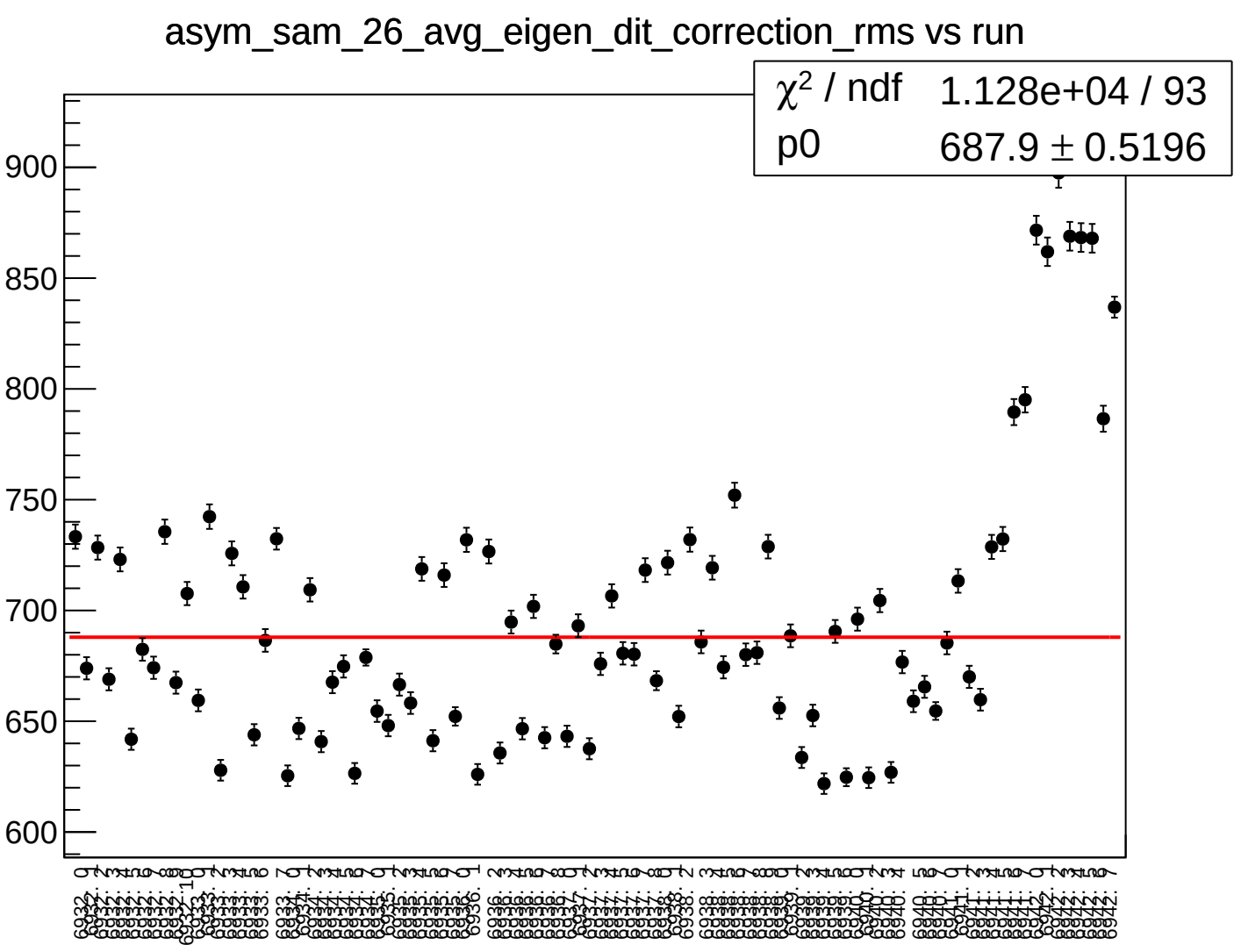

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 96.24 / 93
p0 −2.199 ± 113.8
pull
Entries 94
Mean 214.2
Std Dev 0

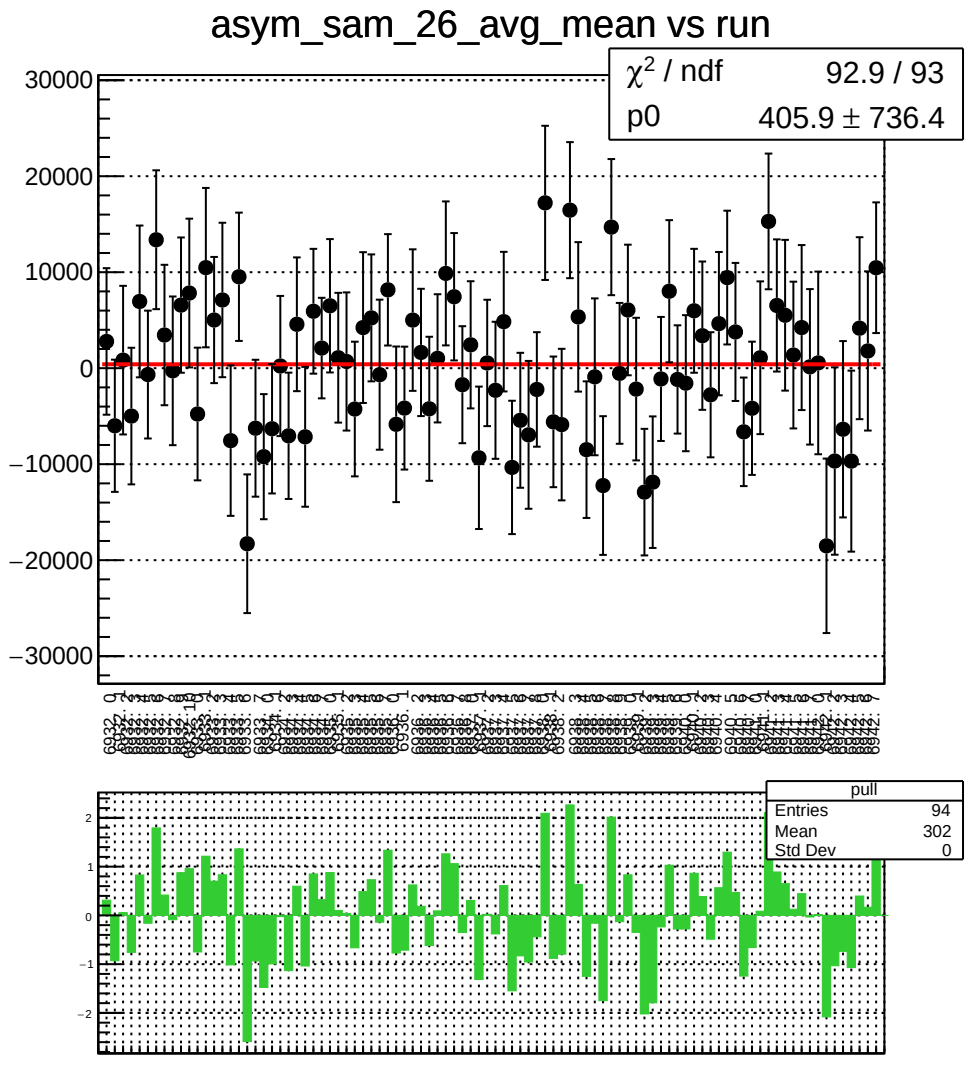

pull1D
Entries 94
Mean 0.006354
Std Dev 1.012

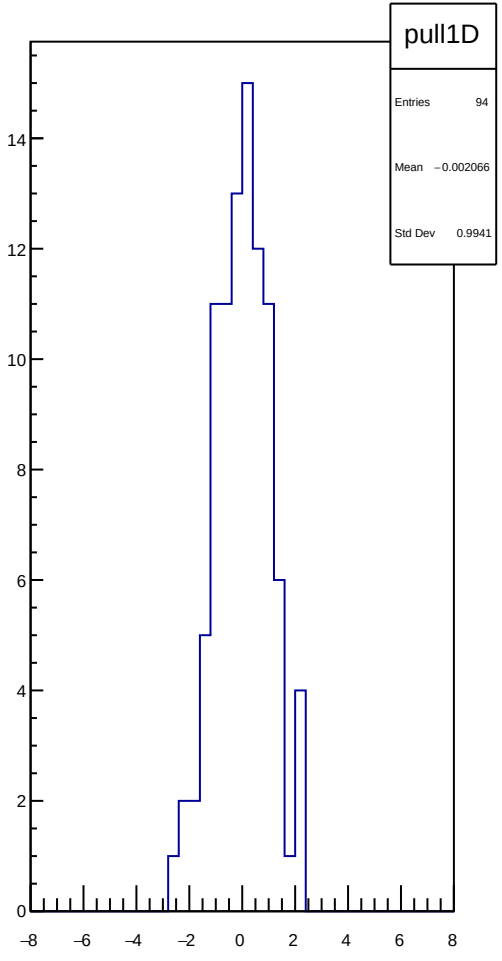

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3243 / 93
p0 106.8 ± 0.08047
120
115
110
105
100

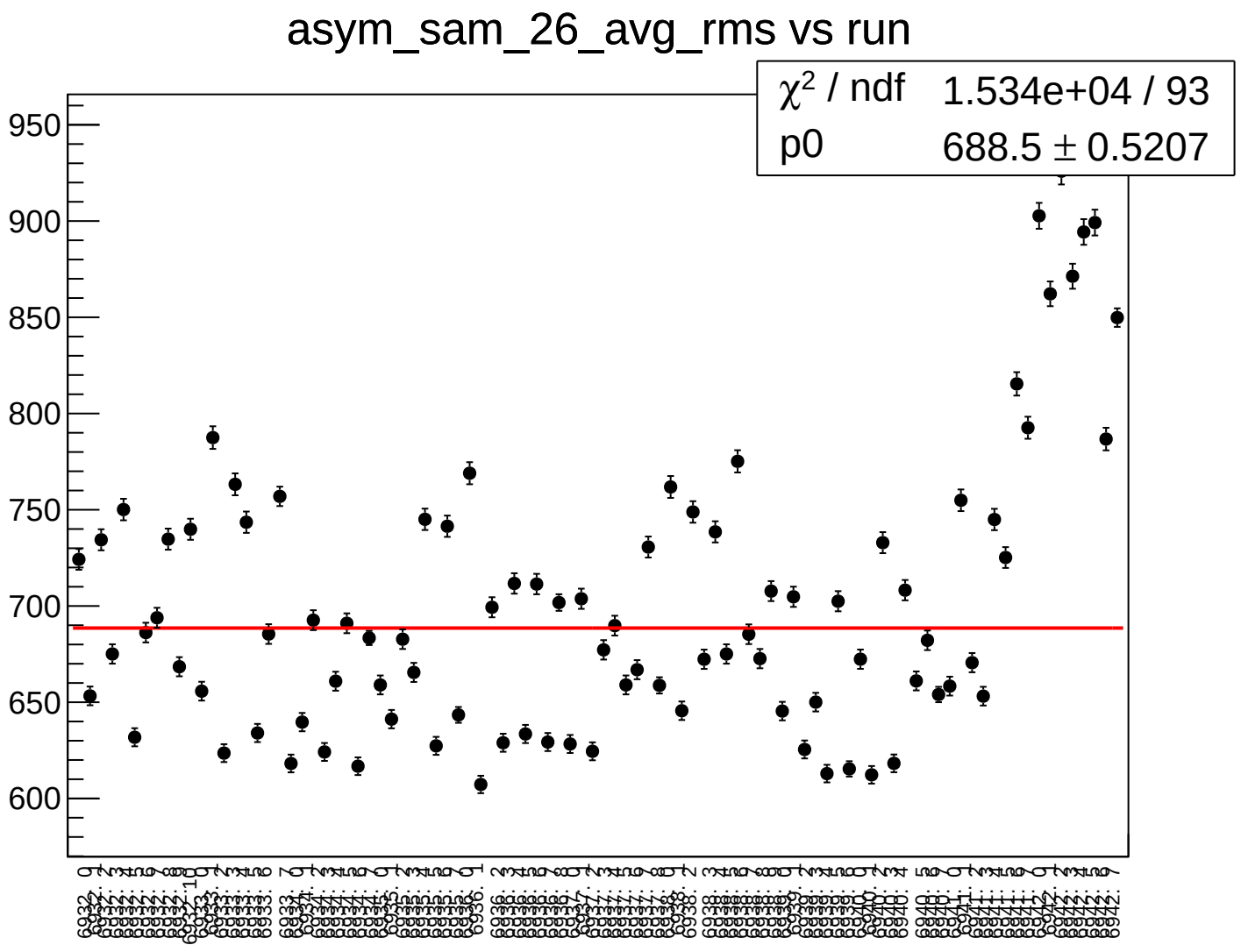

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.96 / 93
p0 −459 ± 734.9
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 154.8
Std Dev 0
2
1
0
−1
−2

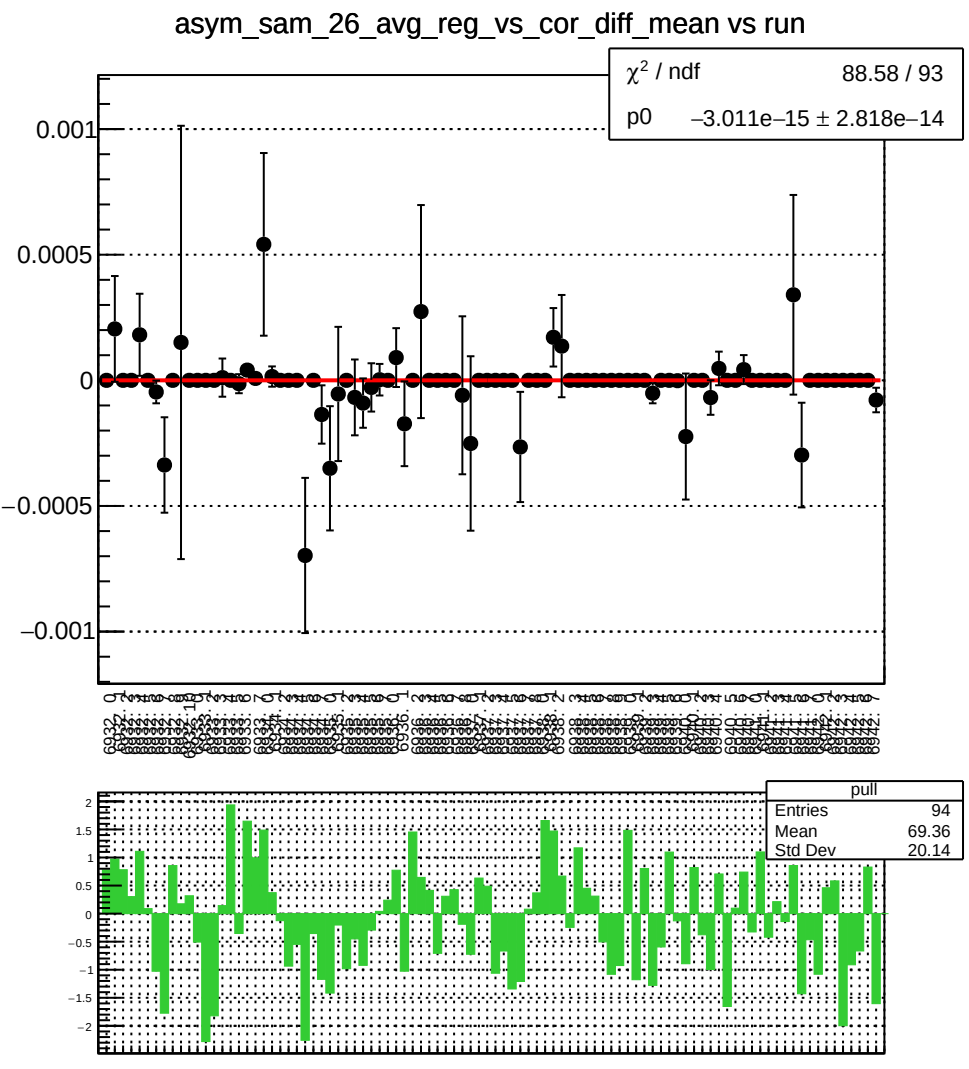

pull1D
Entries 94
Mean 0.006587
Std Dev 0.9728
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

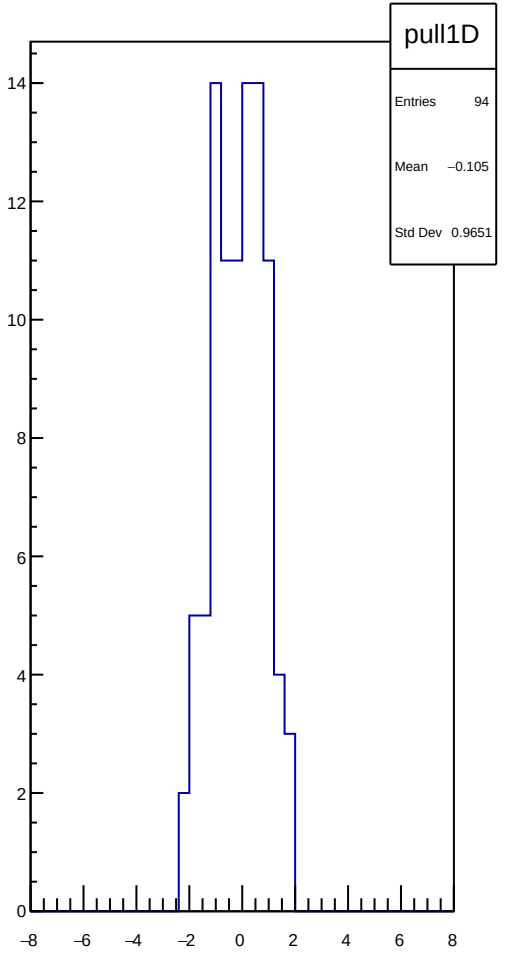

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.128e+04 / 93
p0 687.9 ± 0.5196
900
850
800
750
700
650
600

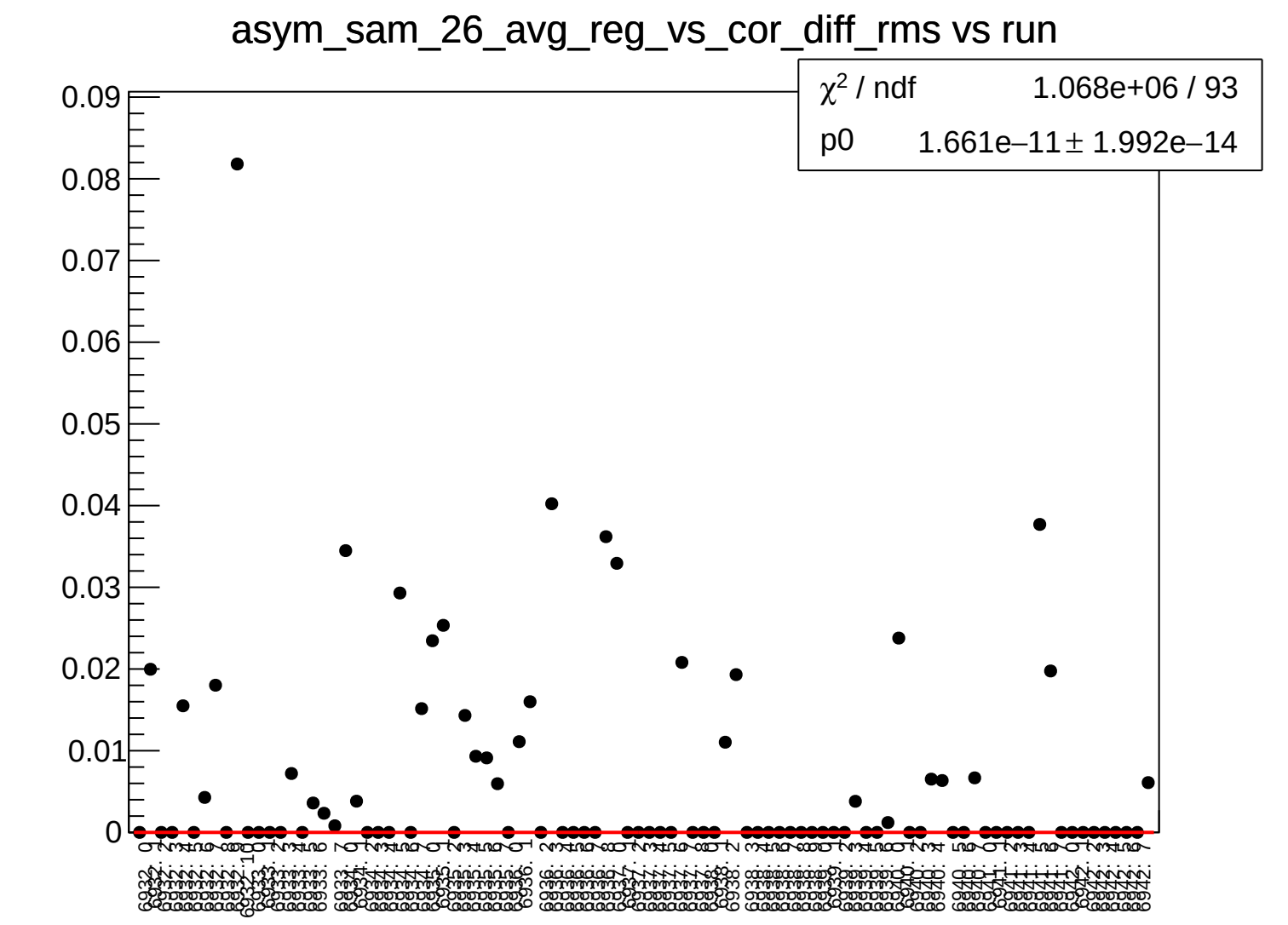

asym_sam_26_avg_mean vs run
χ^2 / ndf 92.9 / 93
p0 405.9 ± 736.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 302
Std Dev 0
2
1
0
−1
−2

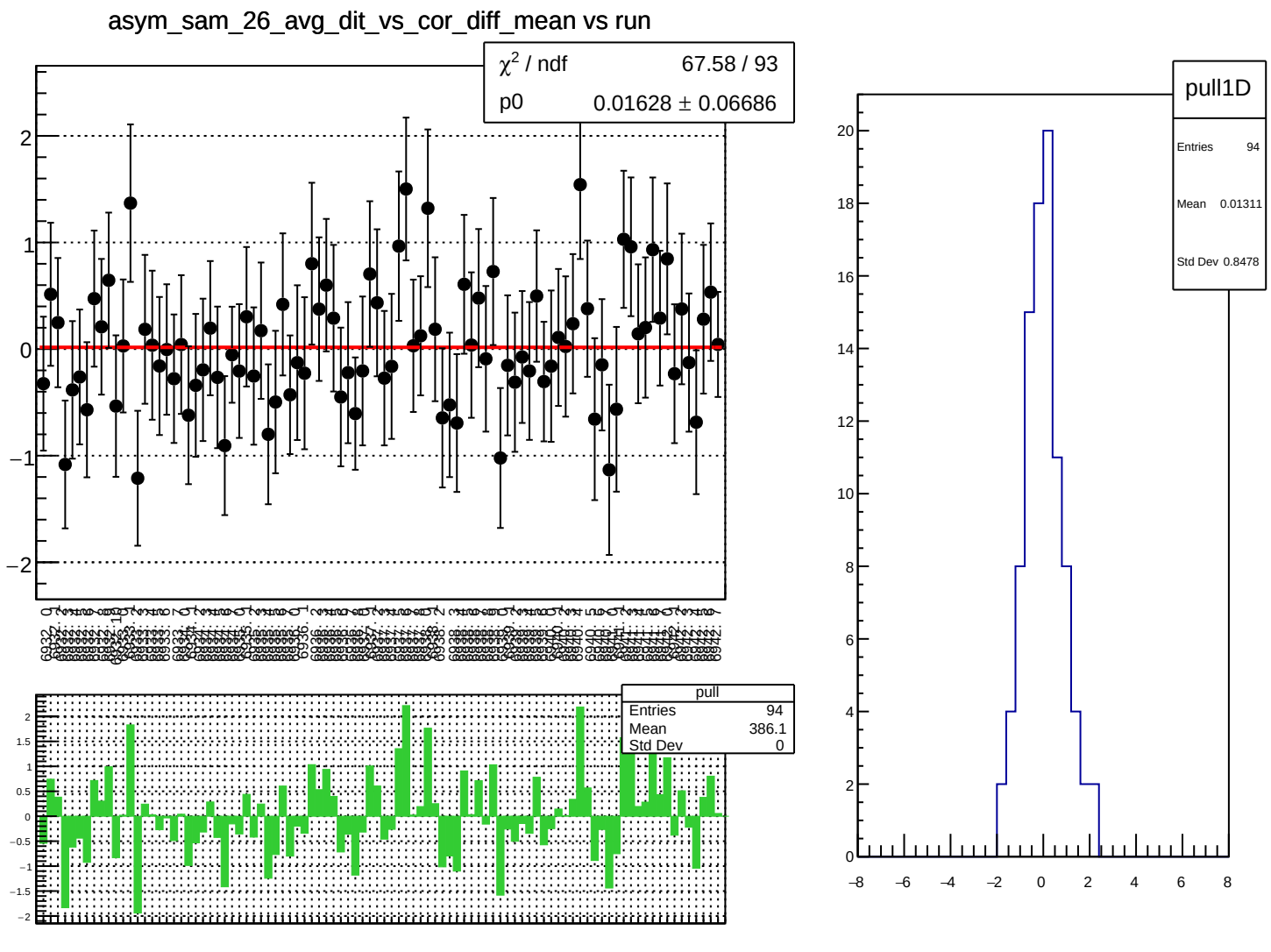

pull1D
Entries 94
Mean −0.002066
Std Dev 0.9941
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

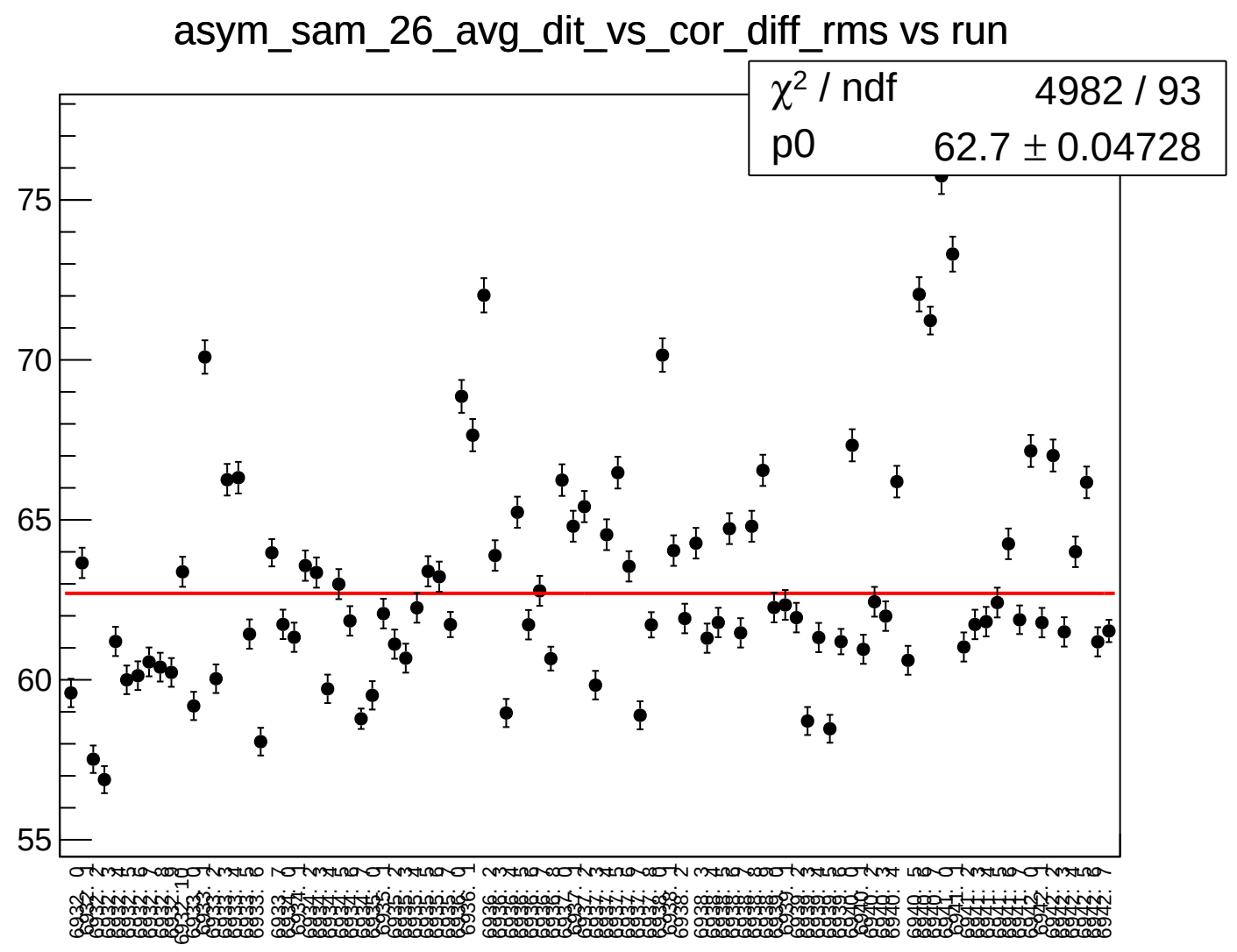

asym_sam_26_avg_rms vs run
χ² / ndf 1.534e+04 / 93
p0 688.5 ± 0.5207
950
900
850
800
750
700
650
600

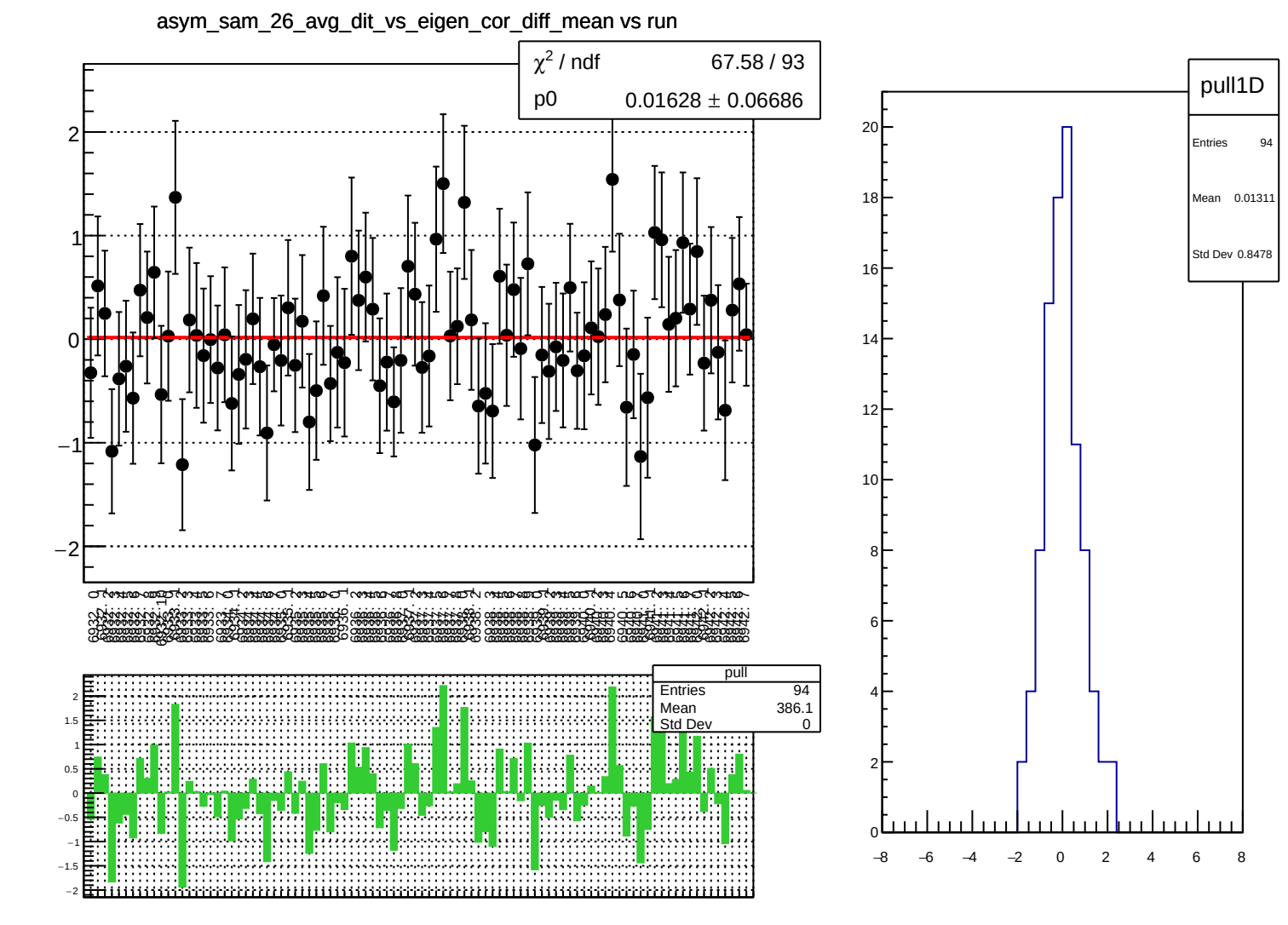

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.58 / 93
p0 −3.011e−15 ± 2.818e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 69.36
Std Dev 20.14
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

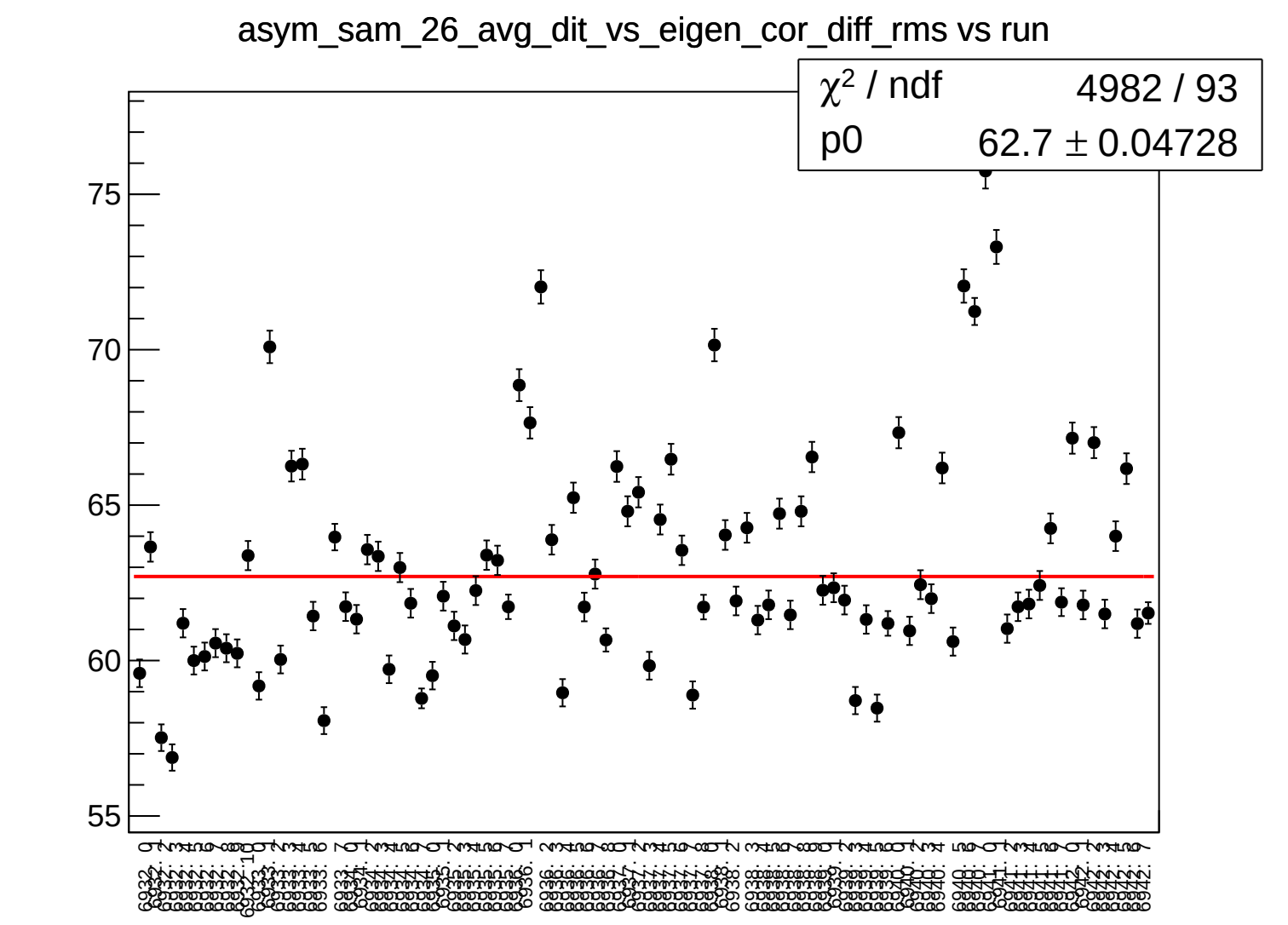

pull1D
Entries 94
Mean −0.105
Std Dev 0.9651
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

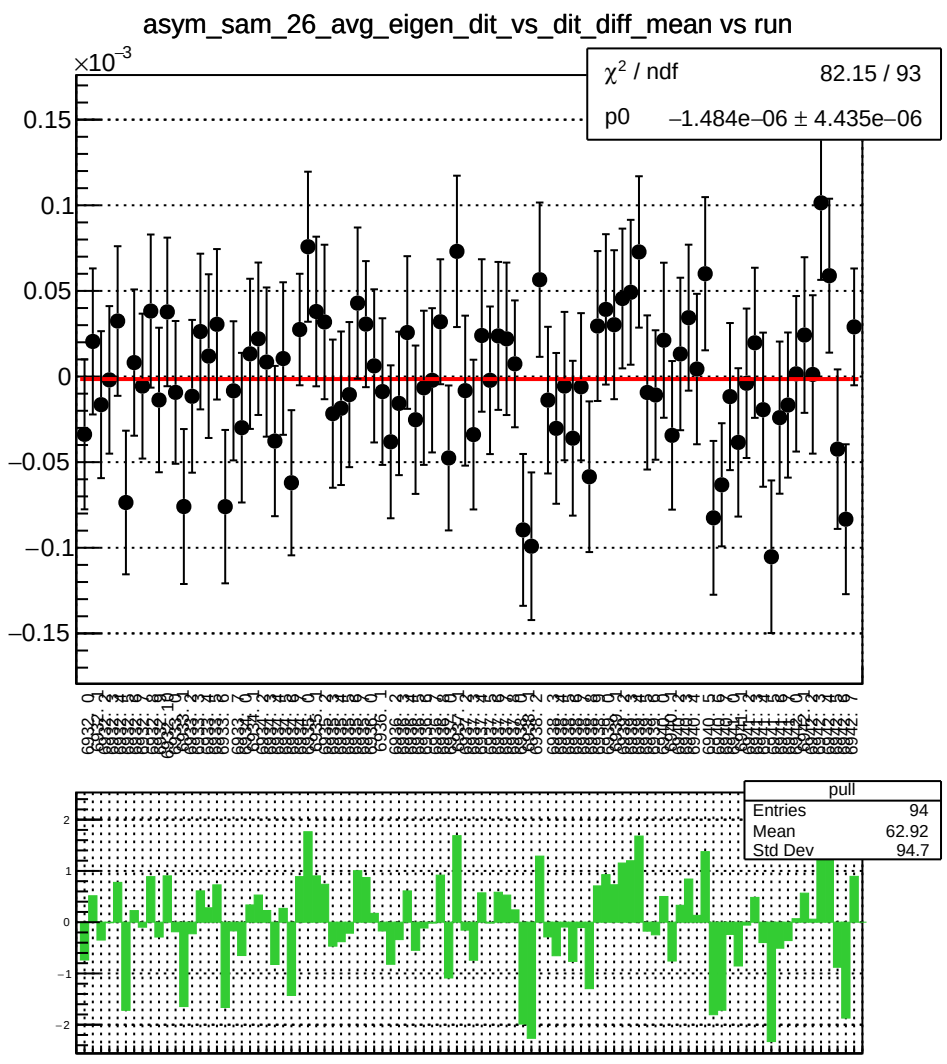

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.068e+06 / 93
p0 1.661e−11 ± 1.992e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

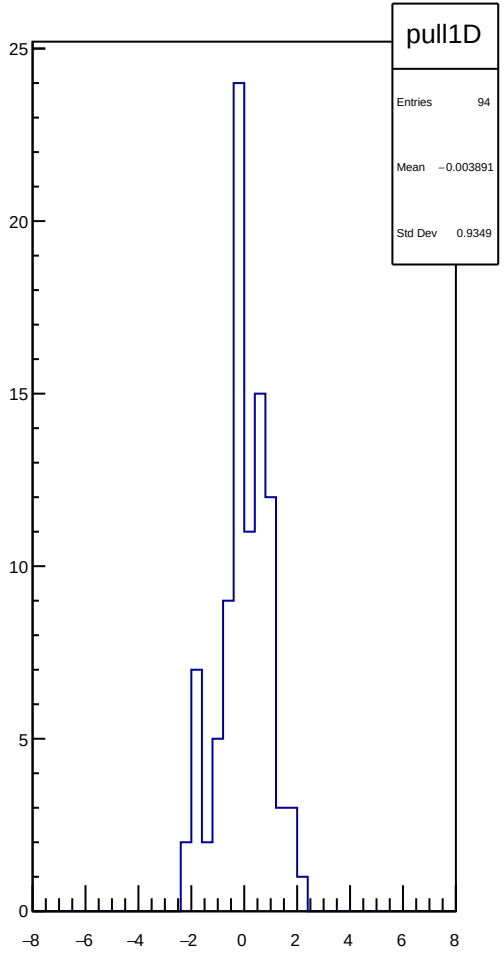

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 67.58 / 93
p0 0.01628 ± 0.06686
pull
Entries 94
Mean 386.1
Std Dev 0
pull1D
Entries 94
Mean 0.01311
Std Dev 0.8478

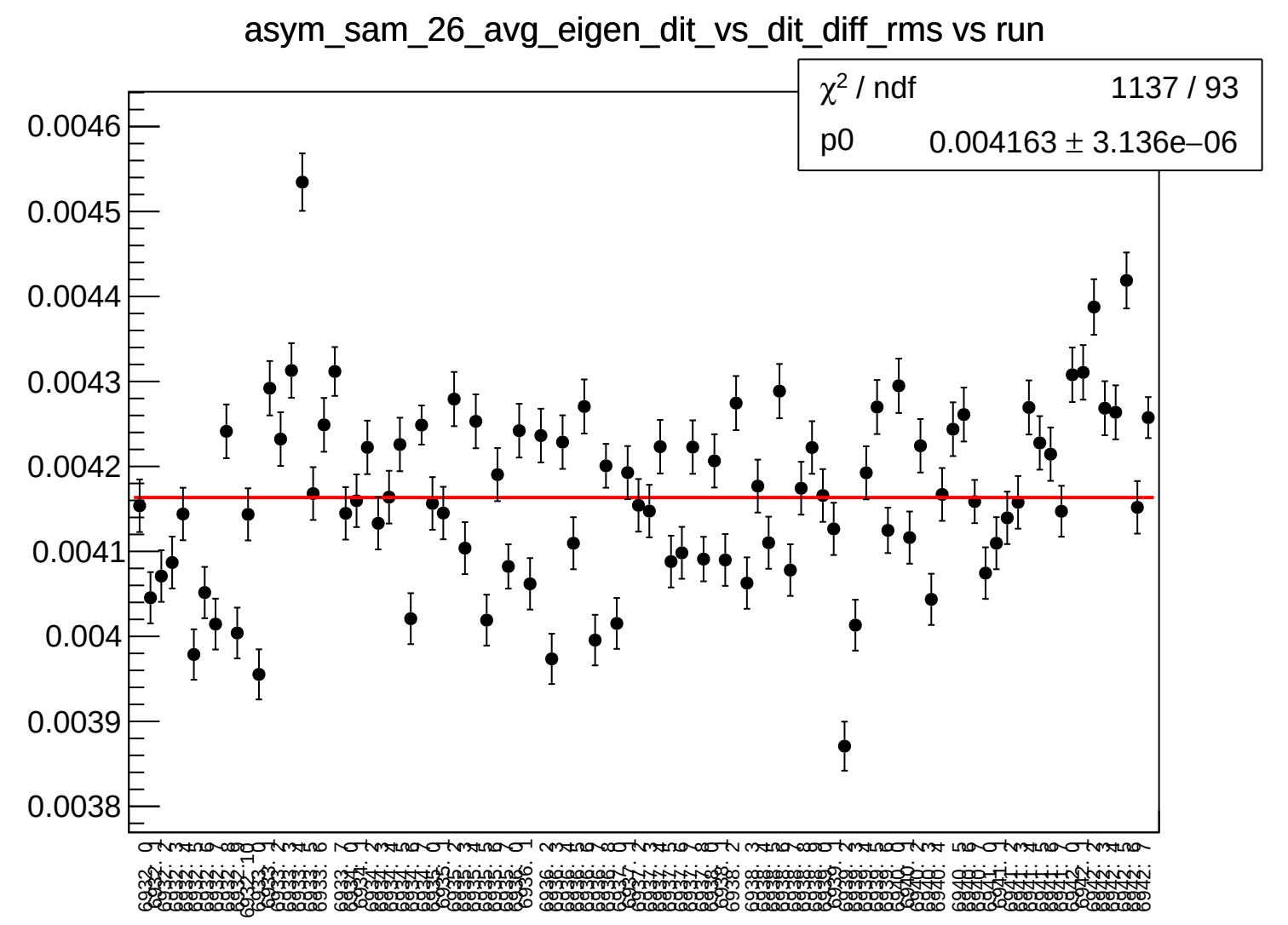

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4982 / 93
p0 62.7 ± 0.04728
75
70
65
60
55

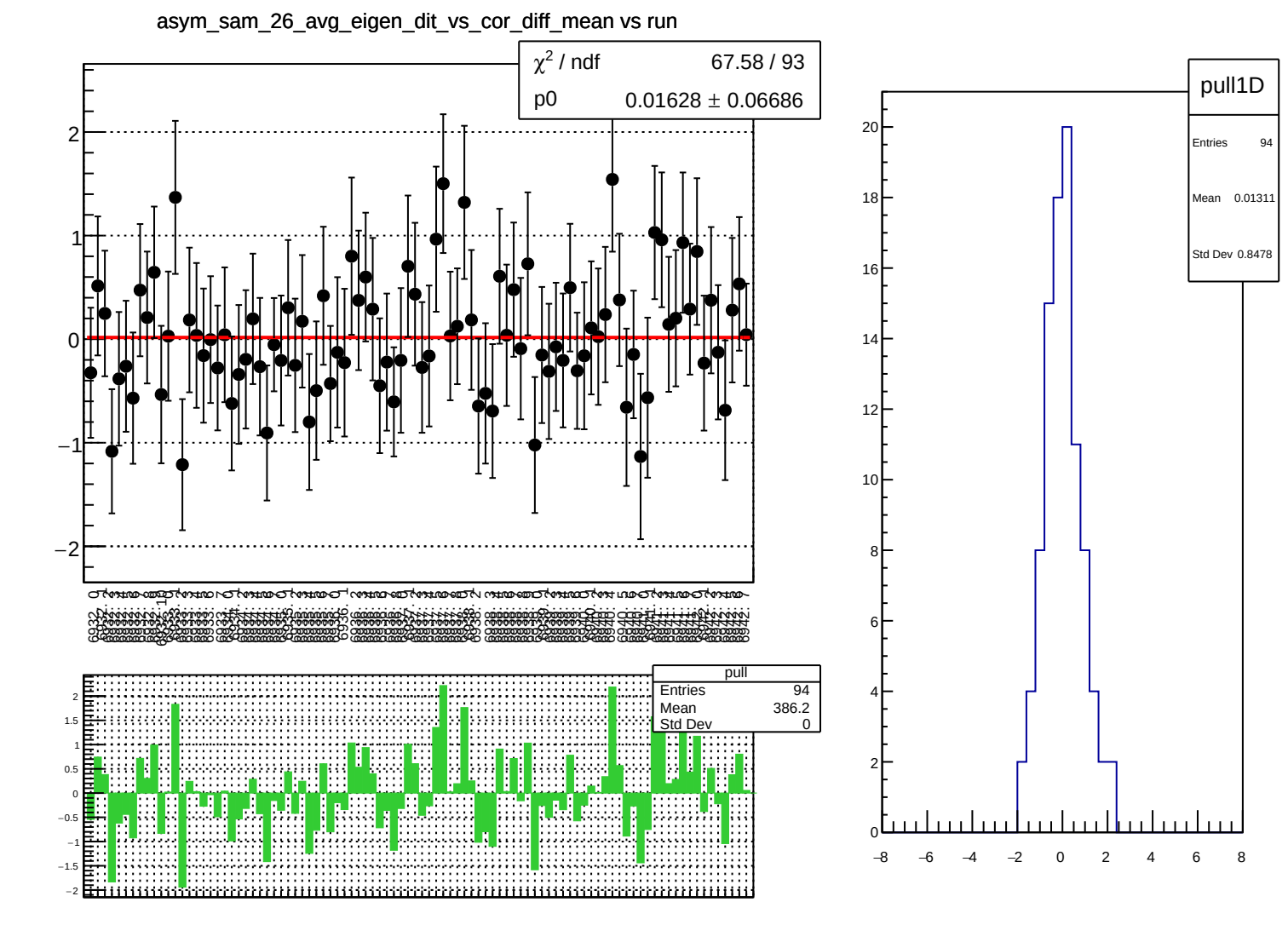

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.58 / 93
p0 0.01628 ± 0.06686
pull
Entries 94
Mean 386.1
Std Dev 0
pull1D
Entries 94
Mean 0.01311
Std Dev 0.8478

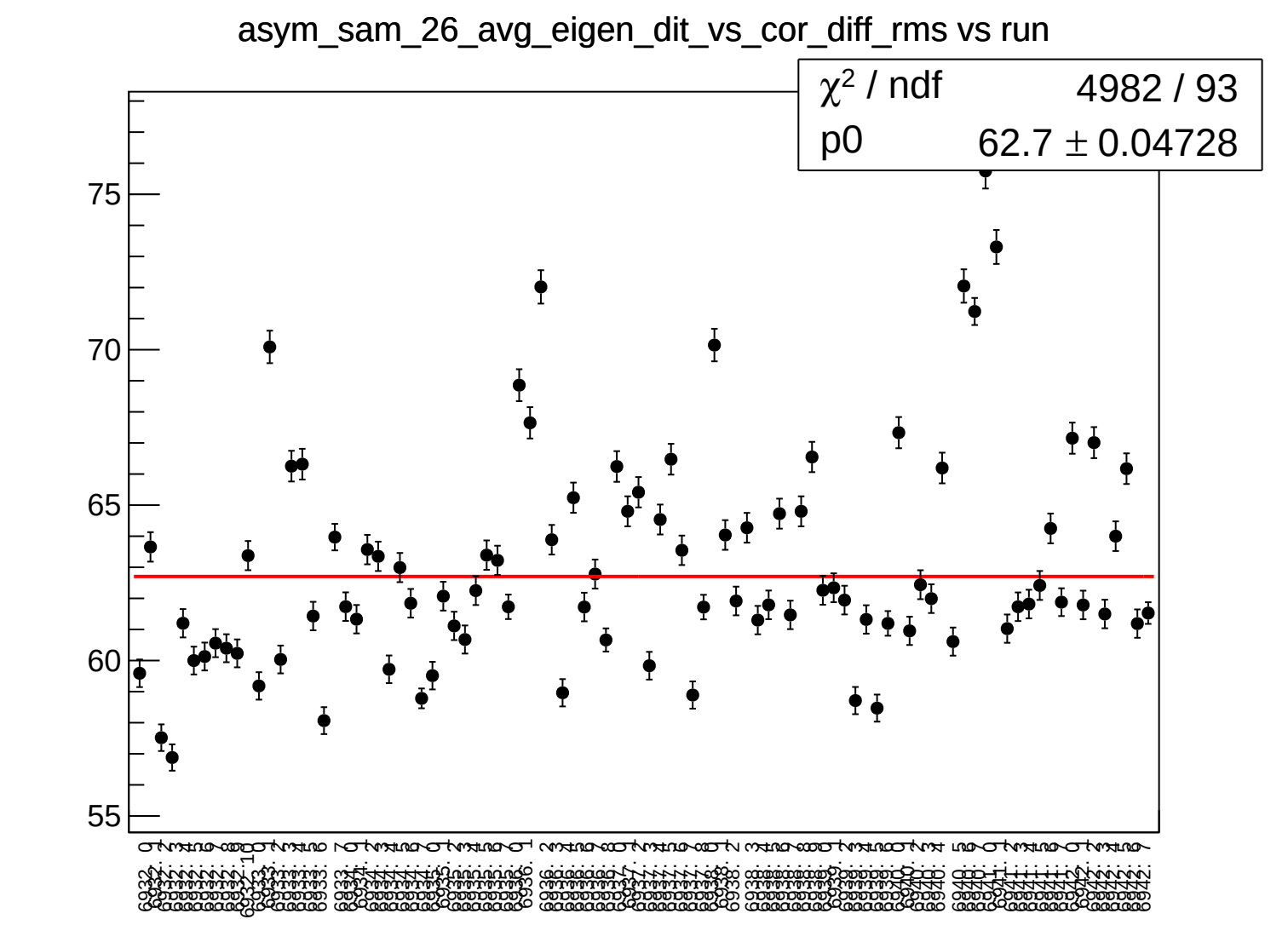

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4982 / 93
p0 62.7 ± 0.04728
75
70
65
60
55

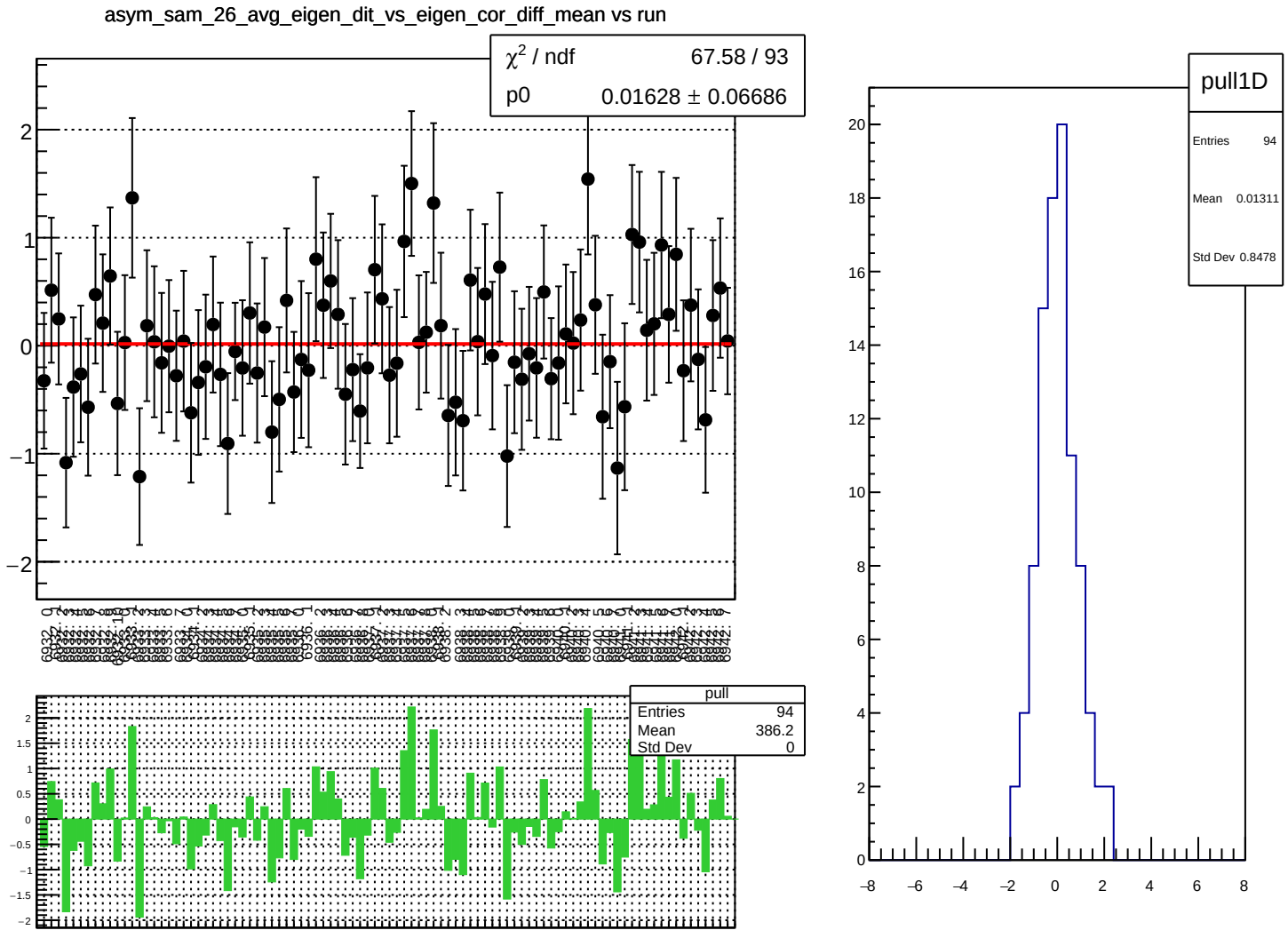

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.15 / 93
p0 −1.484e−06 ± 4.435e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 62.92
Std Dev 94.7
2
1
0
−1
−2

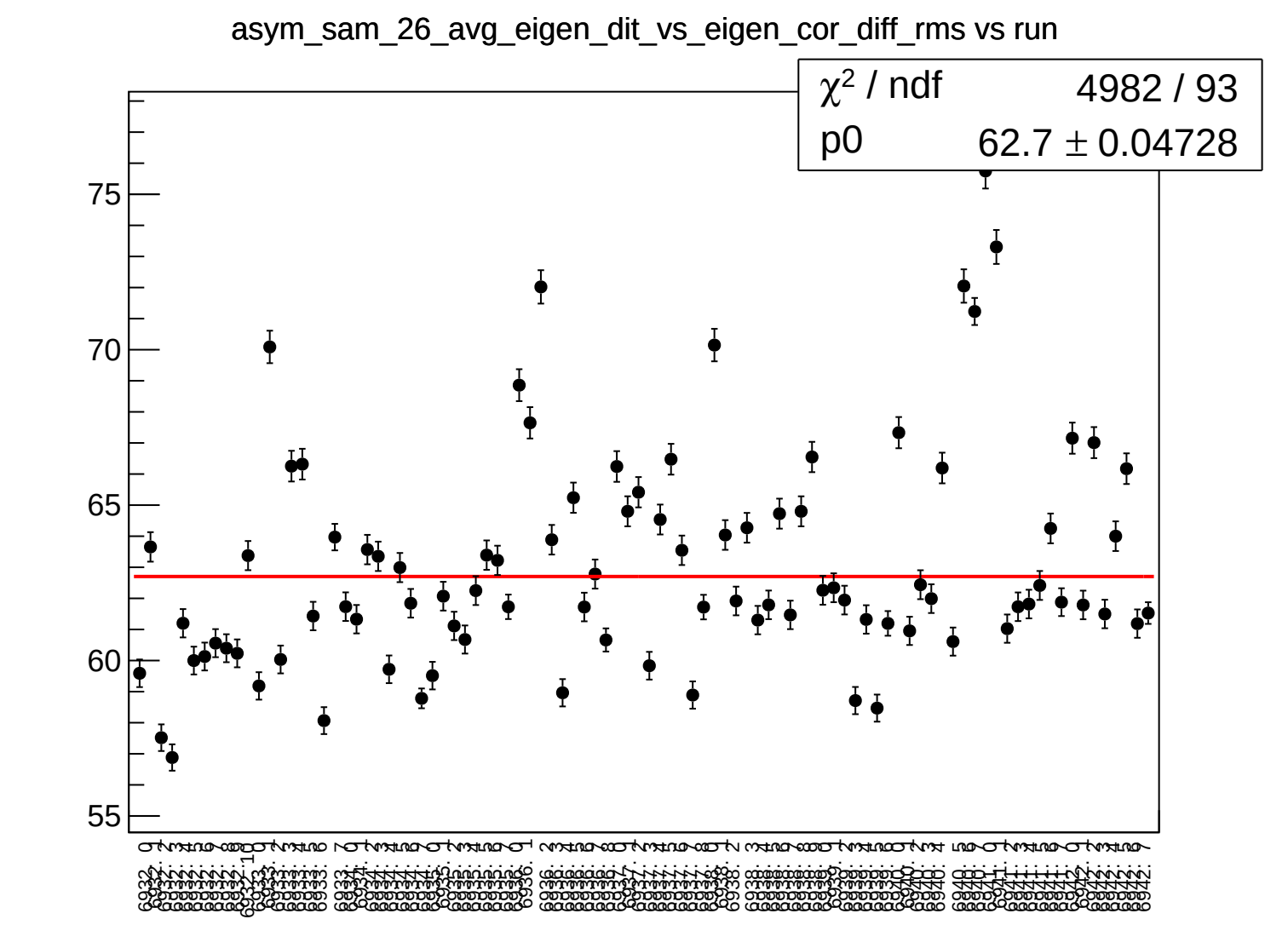

pull1D
Entries 94
Mean −0.003891
Std Dev 0.9349
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

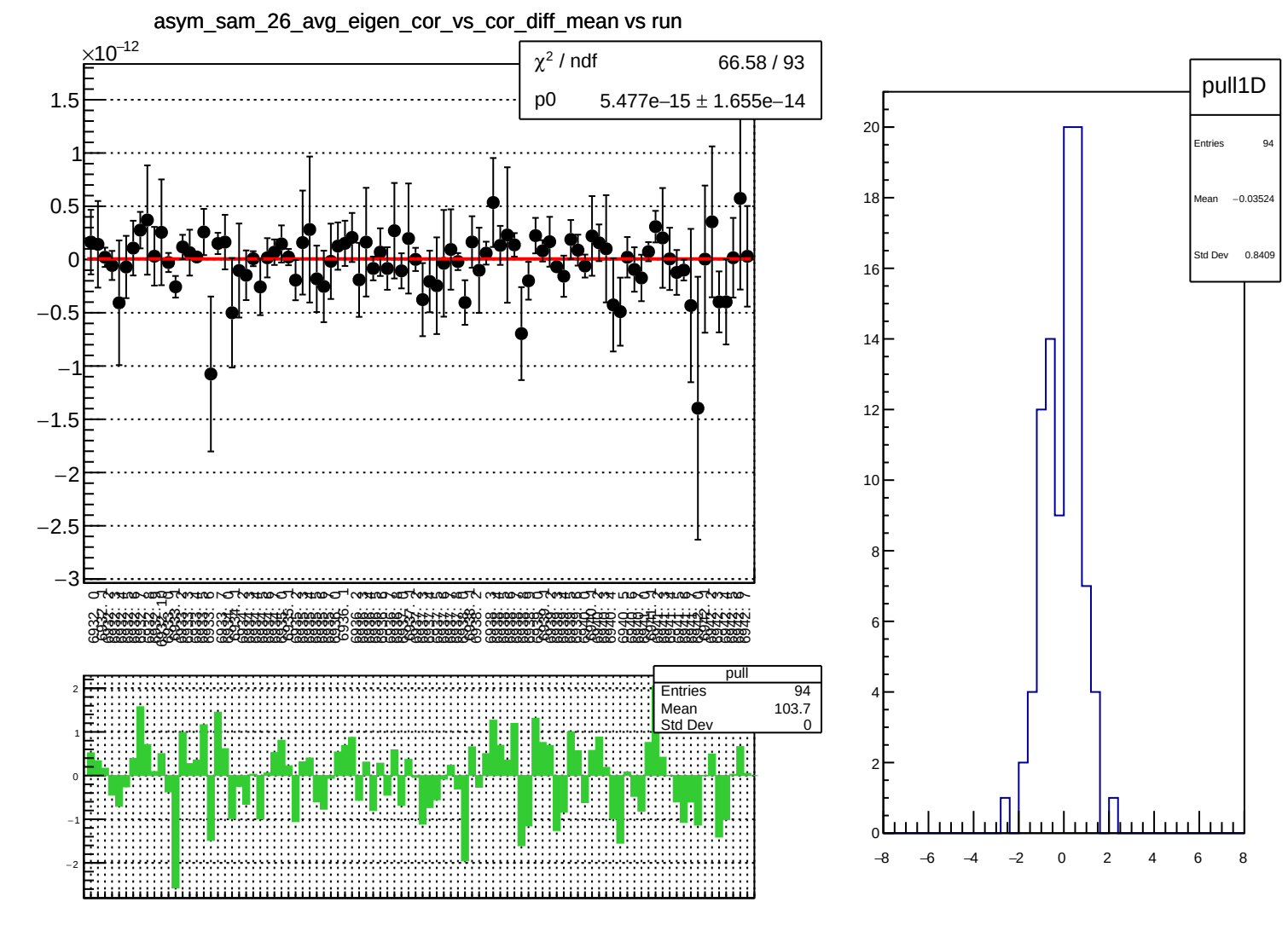

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1137 / 93
p0 0.004163 ± 3.136e−06
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038

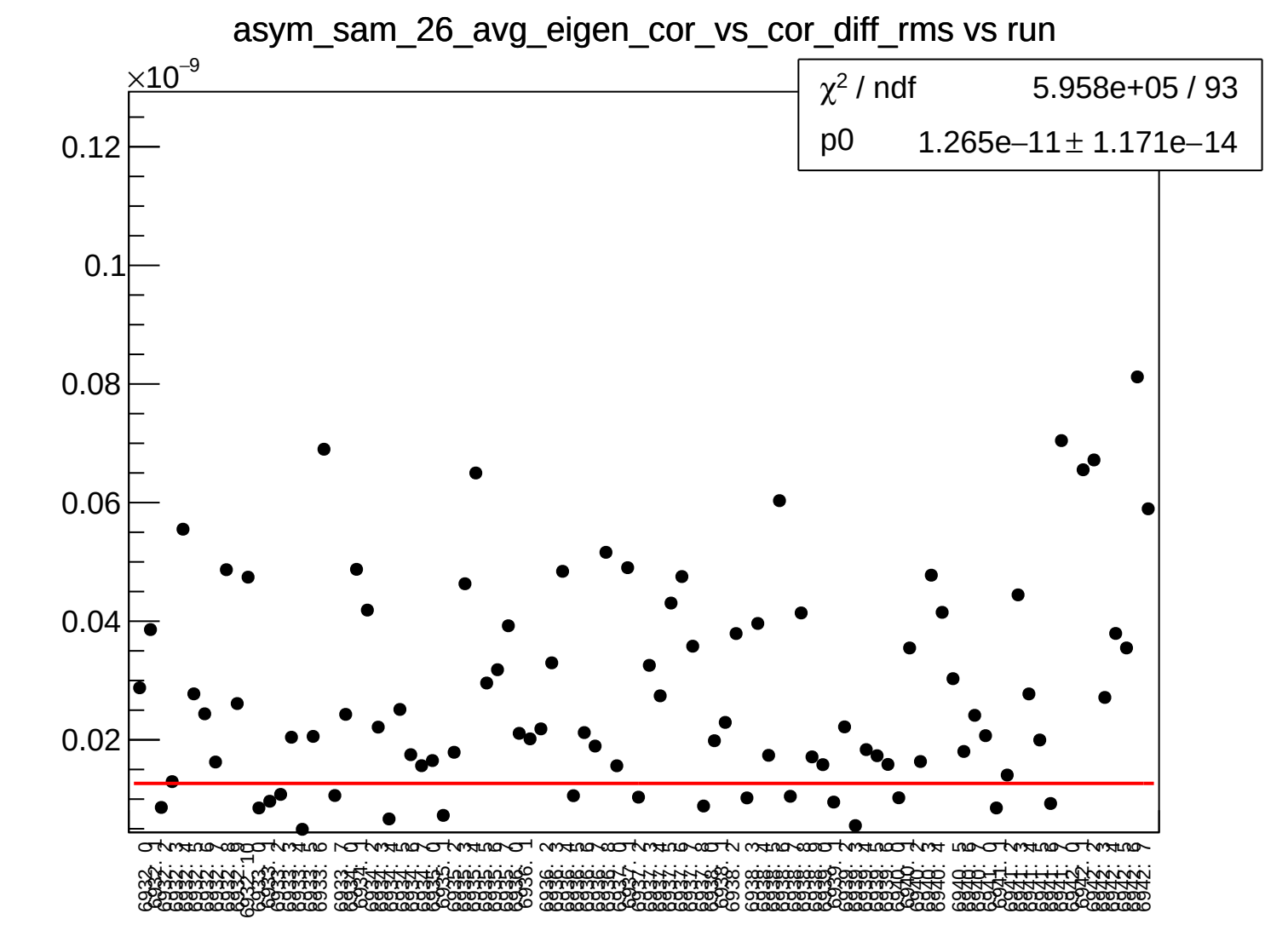

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.58 / 93
p0 0.01628 ± 0.06686
pull
Entries 94
Mean 386.2
Std Dev 0
pull1D
Entries 94
Mean 0.01311
Std Dev 0.8478

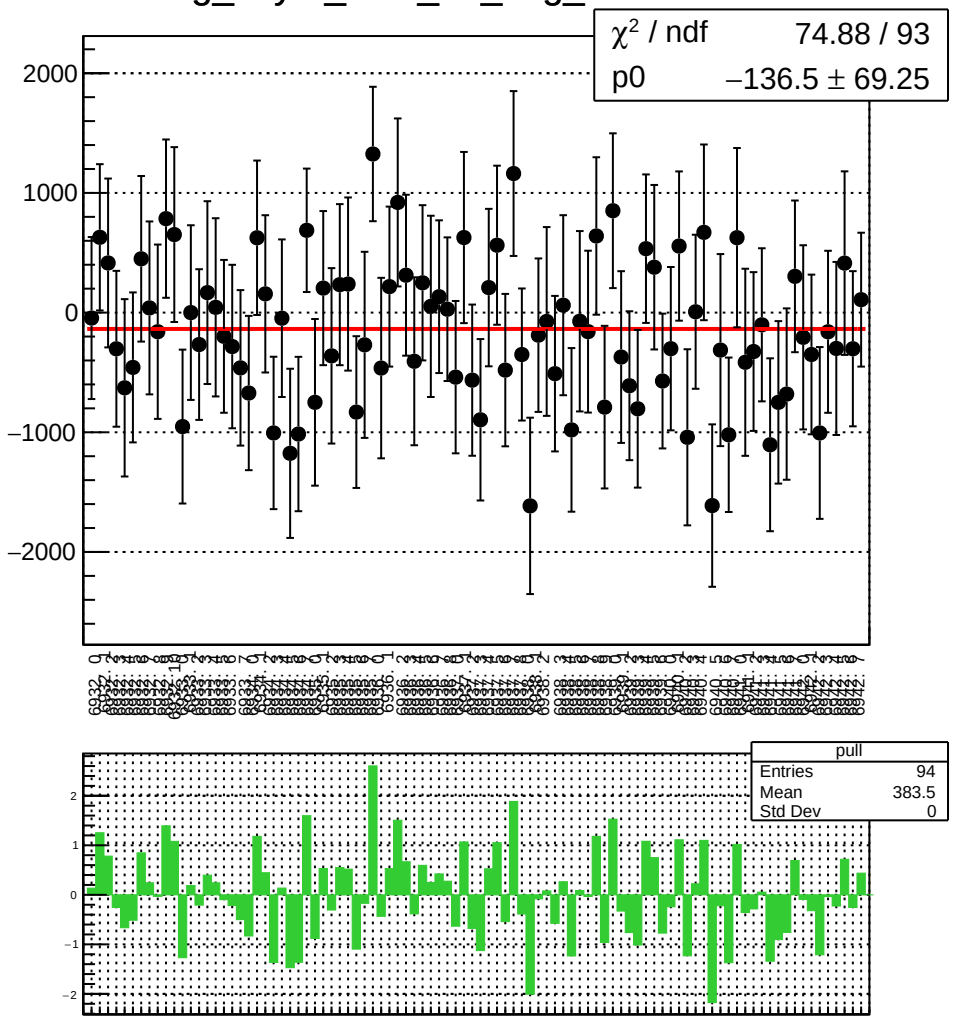

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4982 / 93
p0 62.7 ± 0.04728
75
70
65
60
55

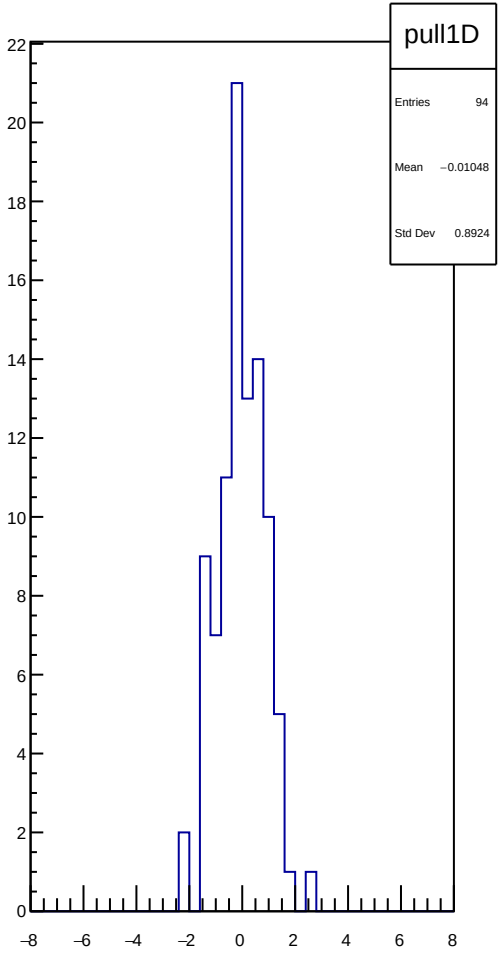

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.58 / 93
p0 0.01628 ± 0.06686
pull
Entries 94
Mean 386.2
Std Dev 0
pull1D
Entries 94
Mean 0.01311
Std Dev 0.8478

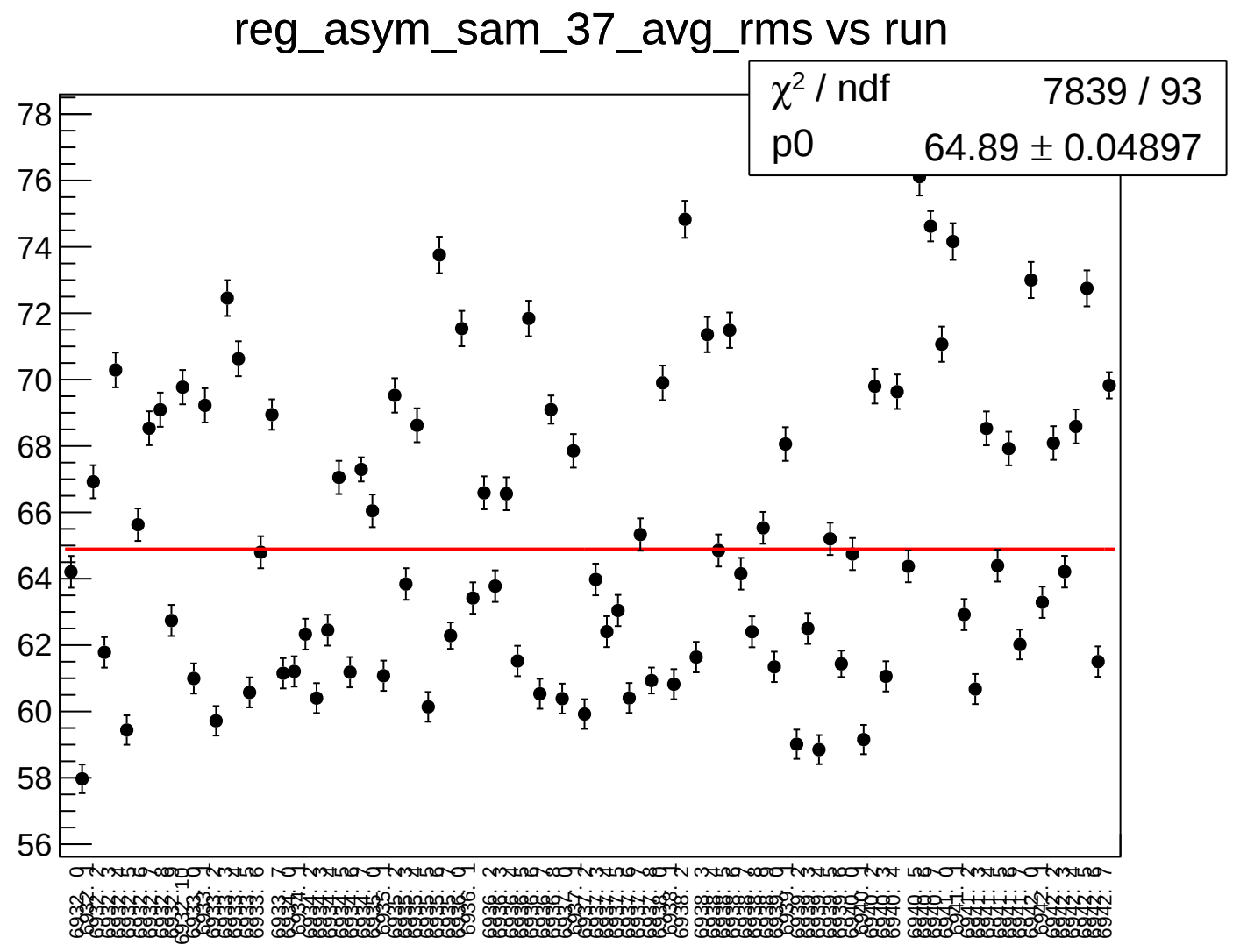

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4982 / 93
p0 62.7 ± 0.04728
75
70
65
60
55

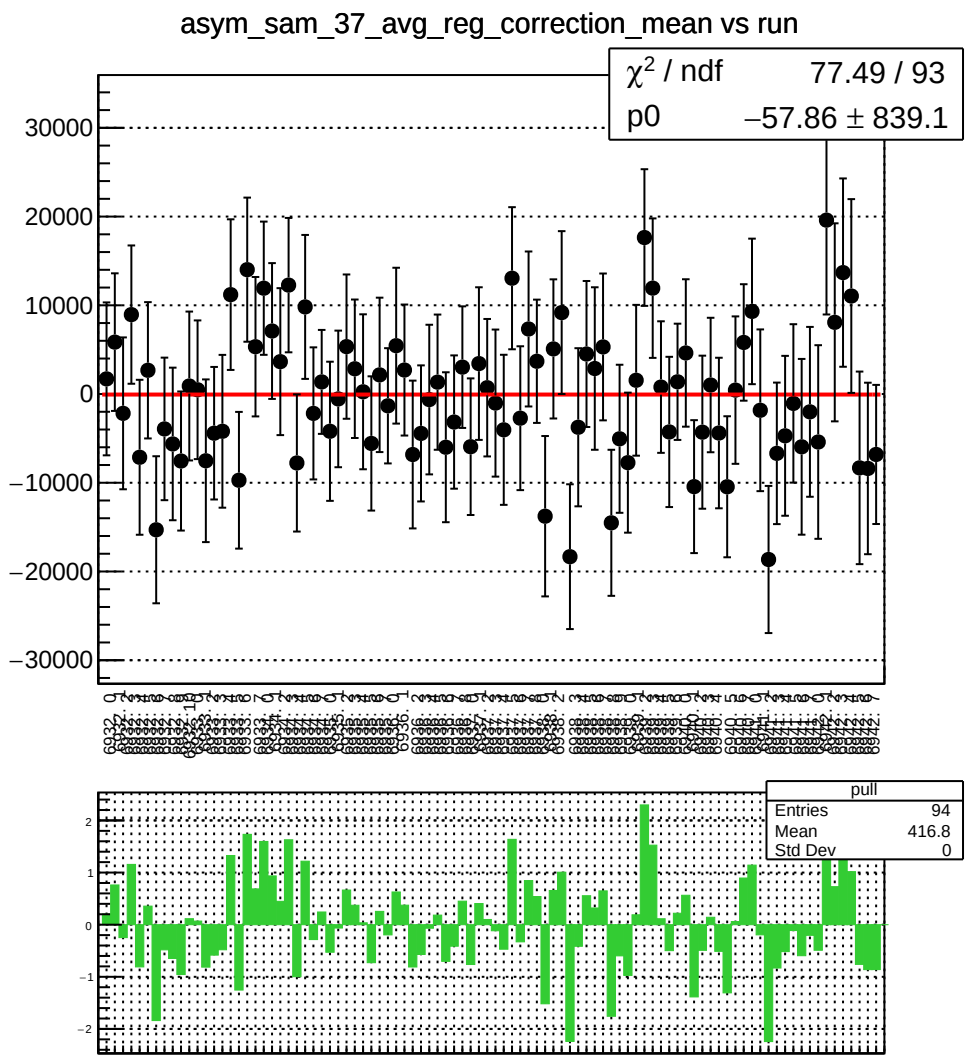

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 66.58 / 93
p0 5.477e−15 ± 1.655e−14
pull
Entries 94
Mean 103.7
Std Dev 0
pull1D
Entries 94
Mean −0.03524
Std Dev 0.8409

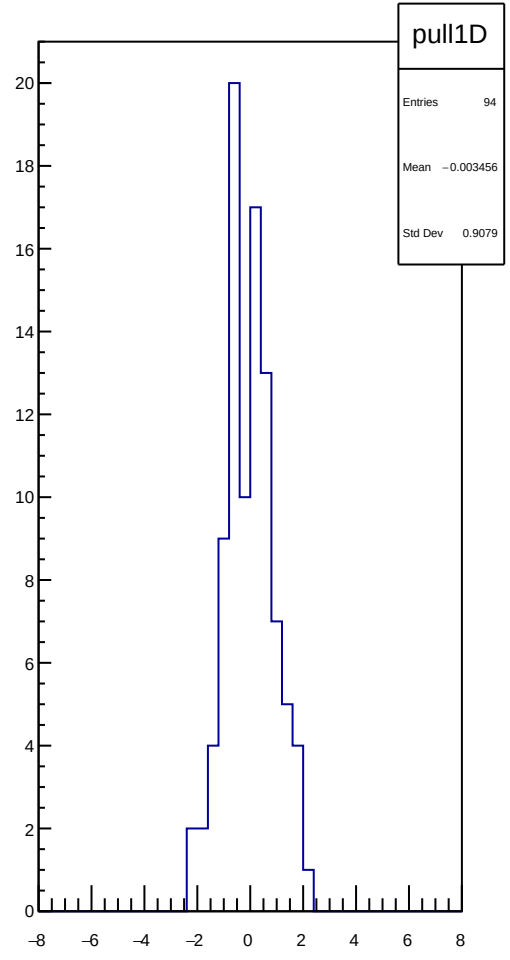

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.958e+05 / 93
p0 1.265e−11 ± 1.171e−14
0.12
0.1
0.08
0.06
0.04
0.02

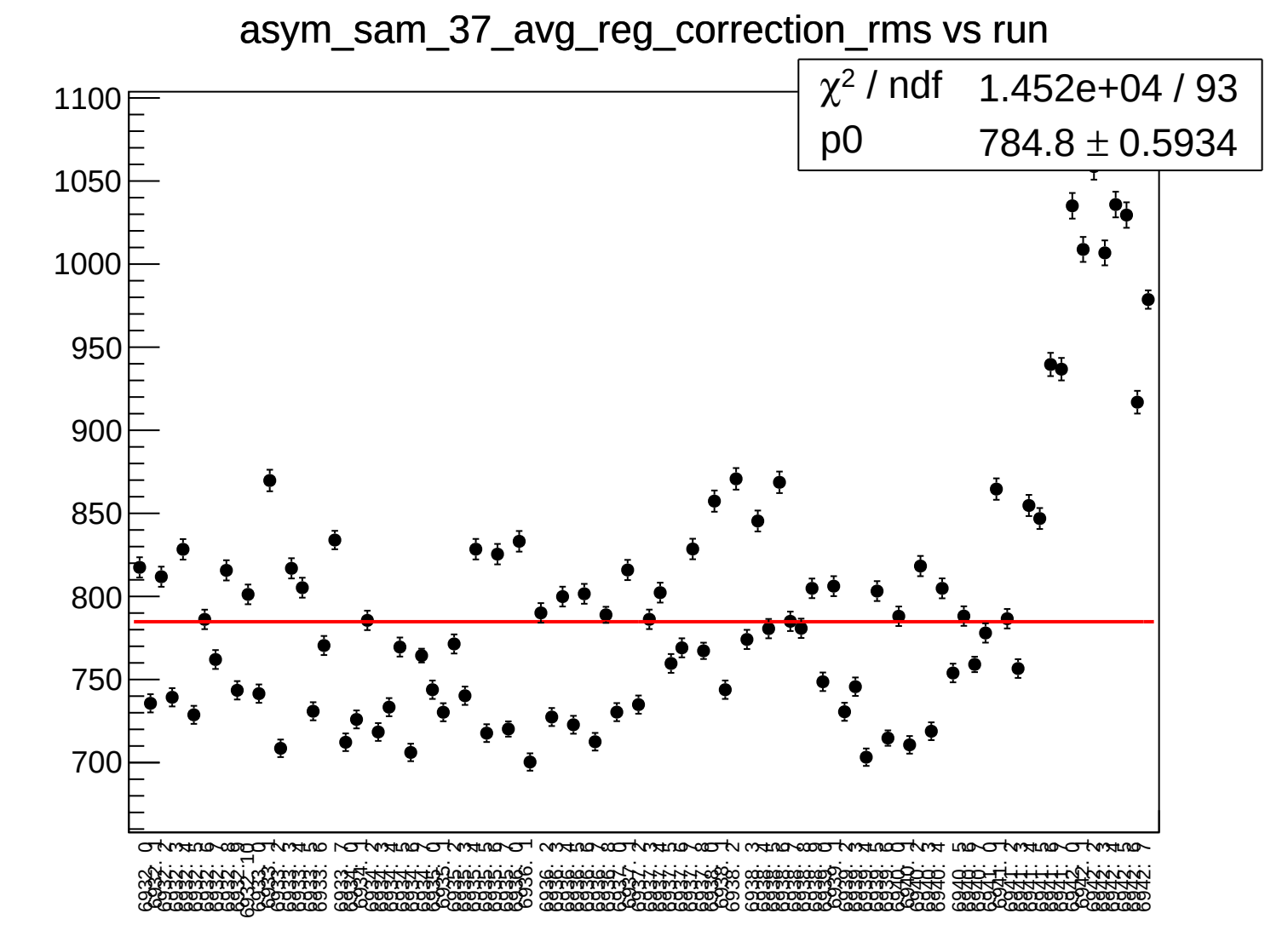

reg_asym_sam_37_avg_mean vs run
χ² / ndf 74.88 / 93
p0 −136.5 ± 69.25
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 383.5
Std Dev 0
2
1
0
−1
−2

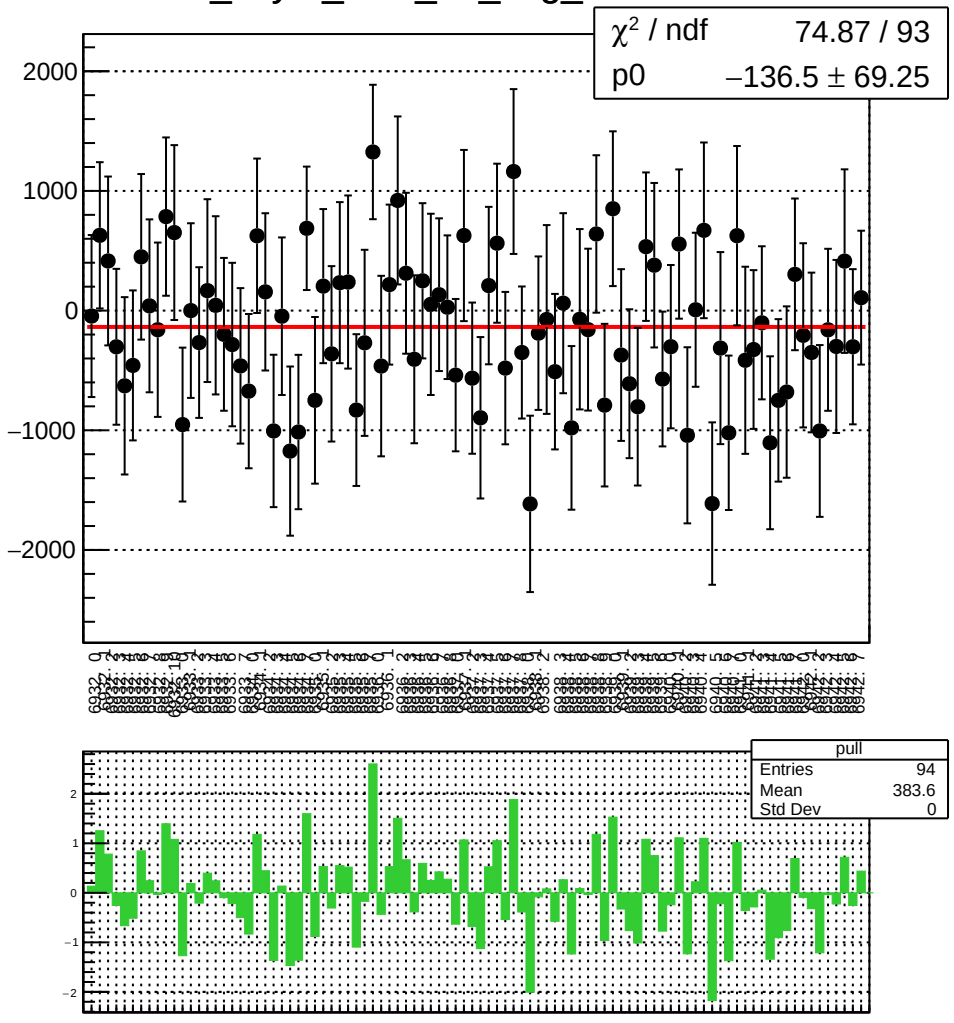

pull1D
Entries 94
Mean −0.01048
Std Dev 0.8924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

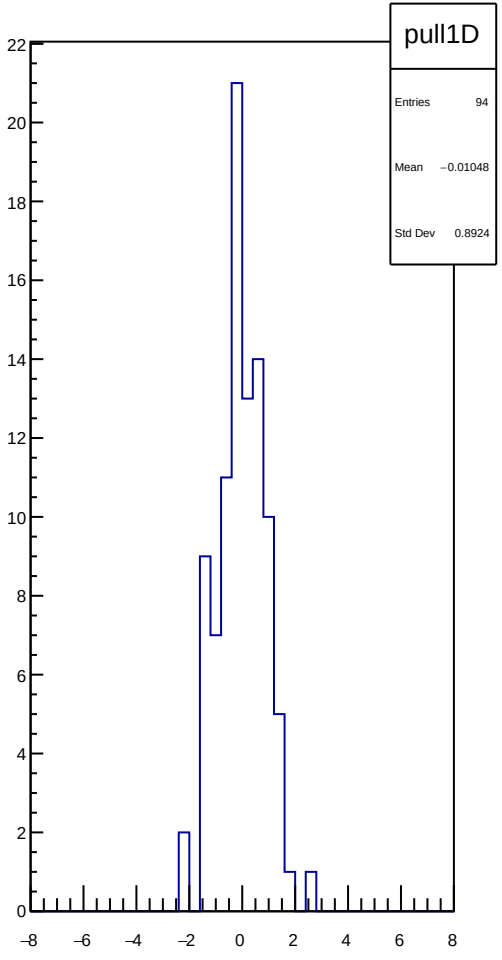

reg_asym_sam_37_avg_rms vs run
χ² / ndf 7839 / 93
p0 64.89 ± 0.04897
78
76
74
72
70
68
66
64
62
60
58
56

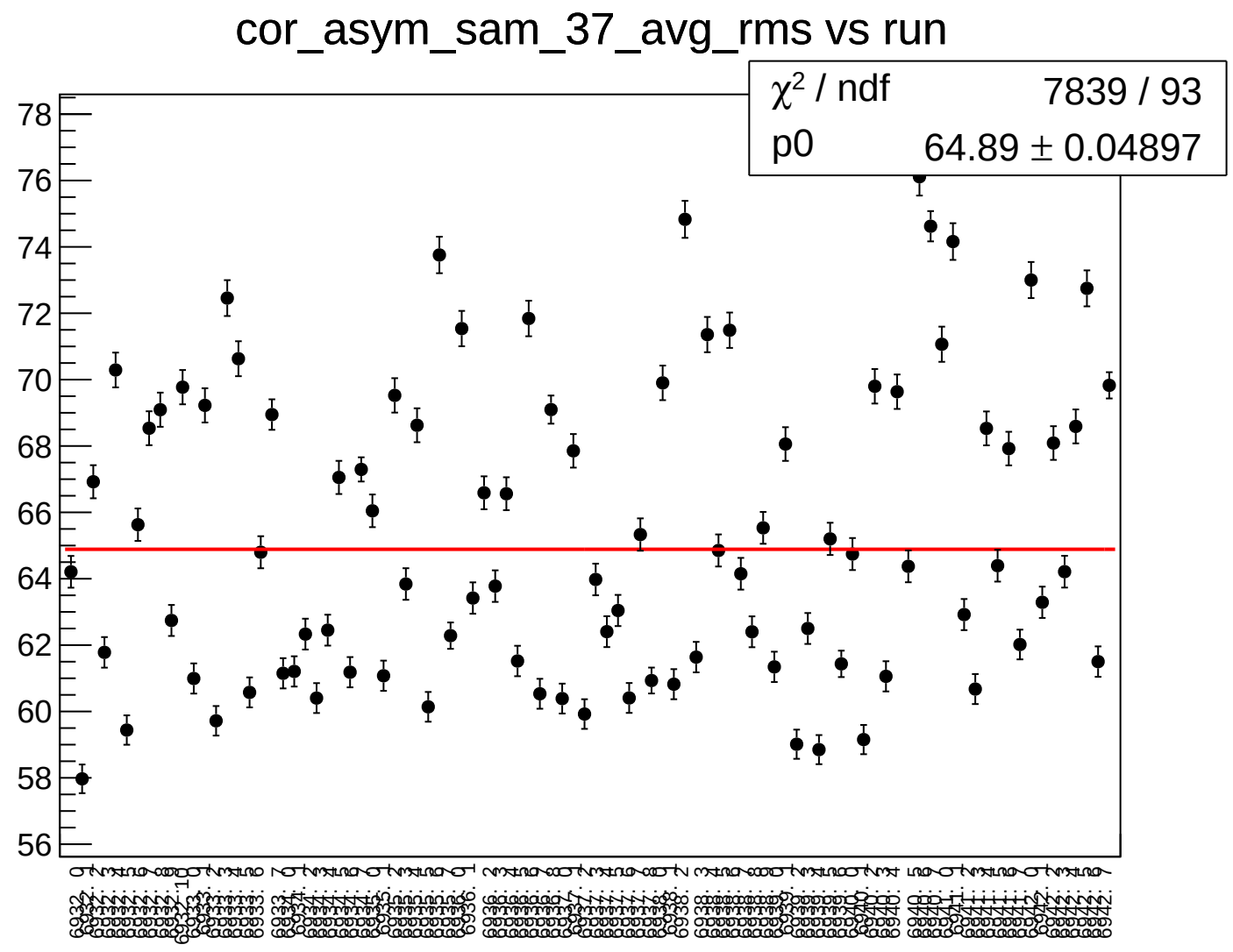

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 77.49 / 93
p0 −57.86 ± 839.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 416.8
Std Dev 0
2
1
0
−1
−2

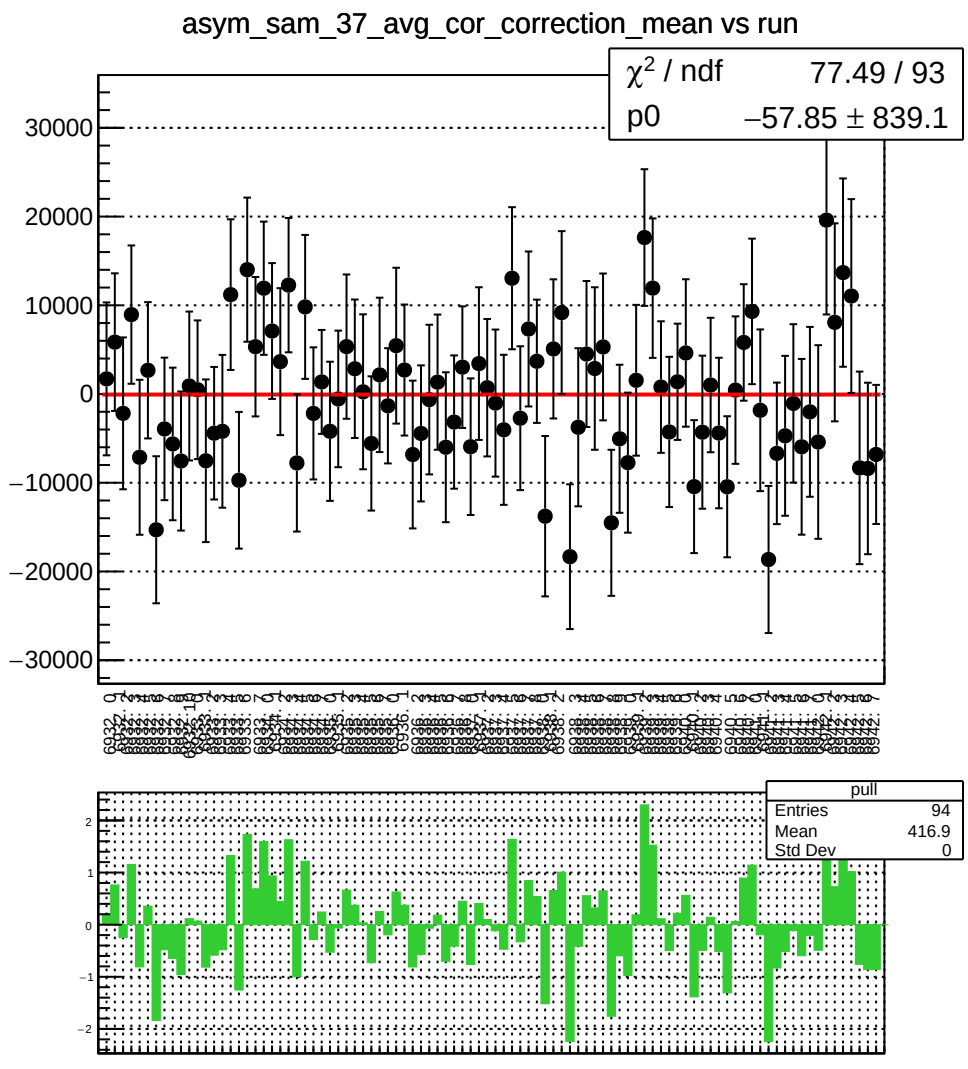

pull1D
Entries 94
Mean −0.003456
Std Dev 0.9079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

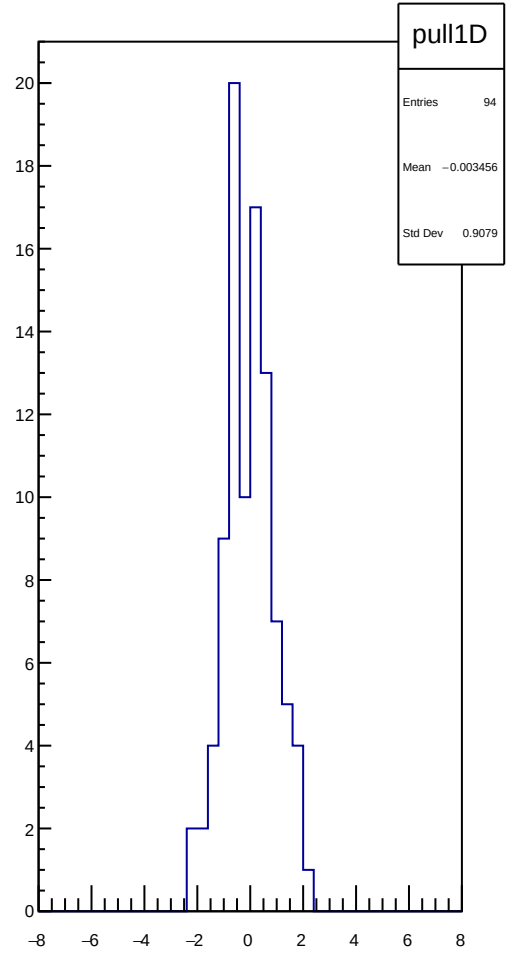

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.452e+04 / 93
p0 784.8 ± 0.5934
1100
1050
1000
950
900
850
800
750
700

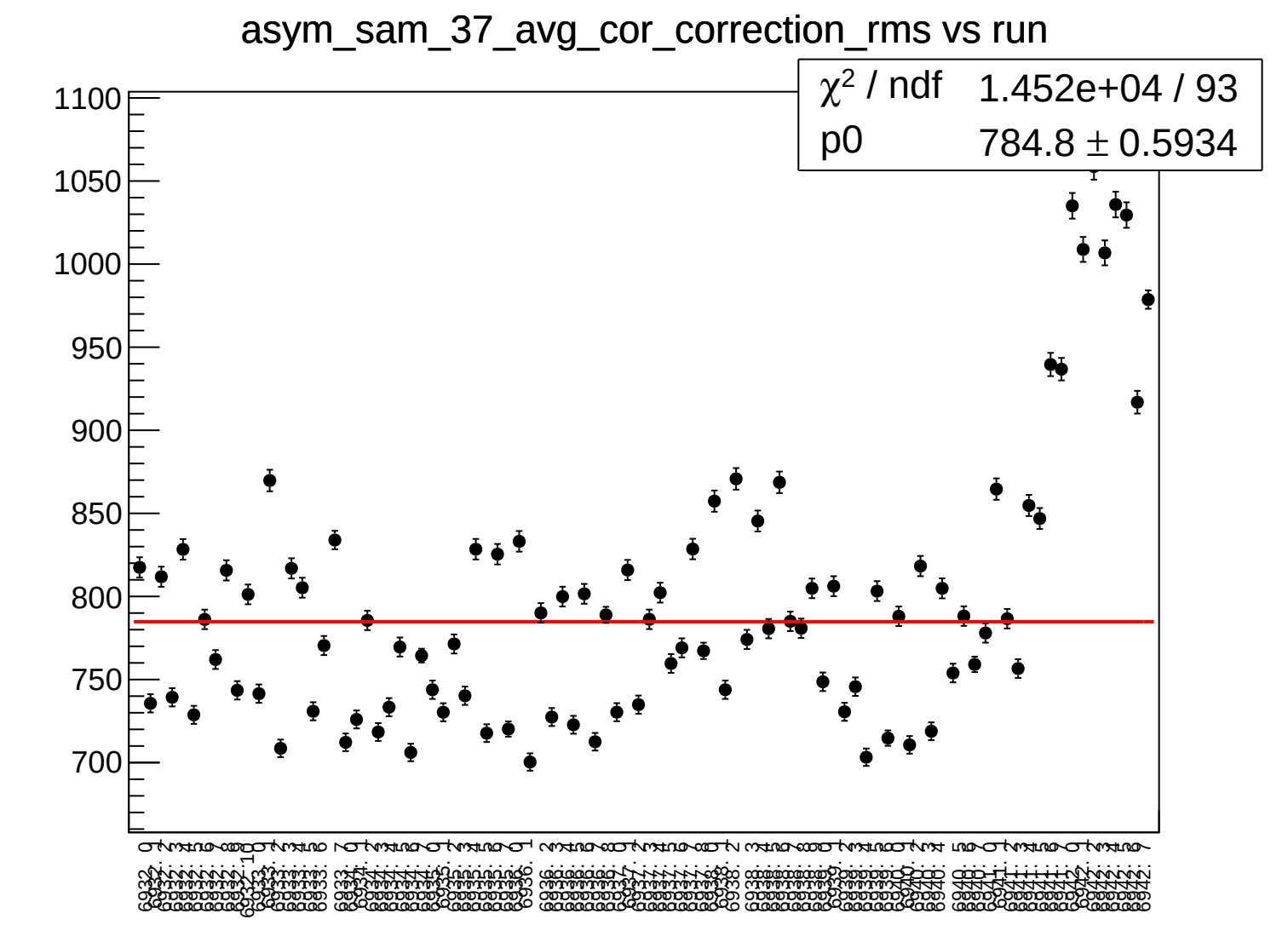

cor_asym_sam_37_avg_mean vs run
χ² / ndf 74.87 / 93
p0 −136.5 ± 69.25
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 383.6
Std Dev 0
2
1
0
−1
−2

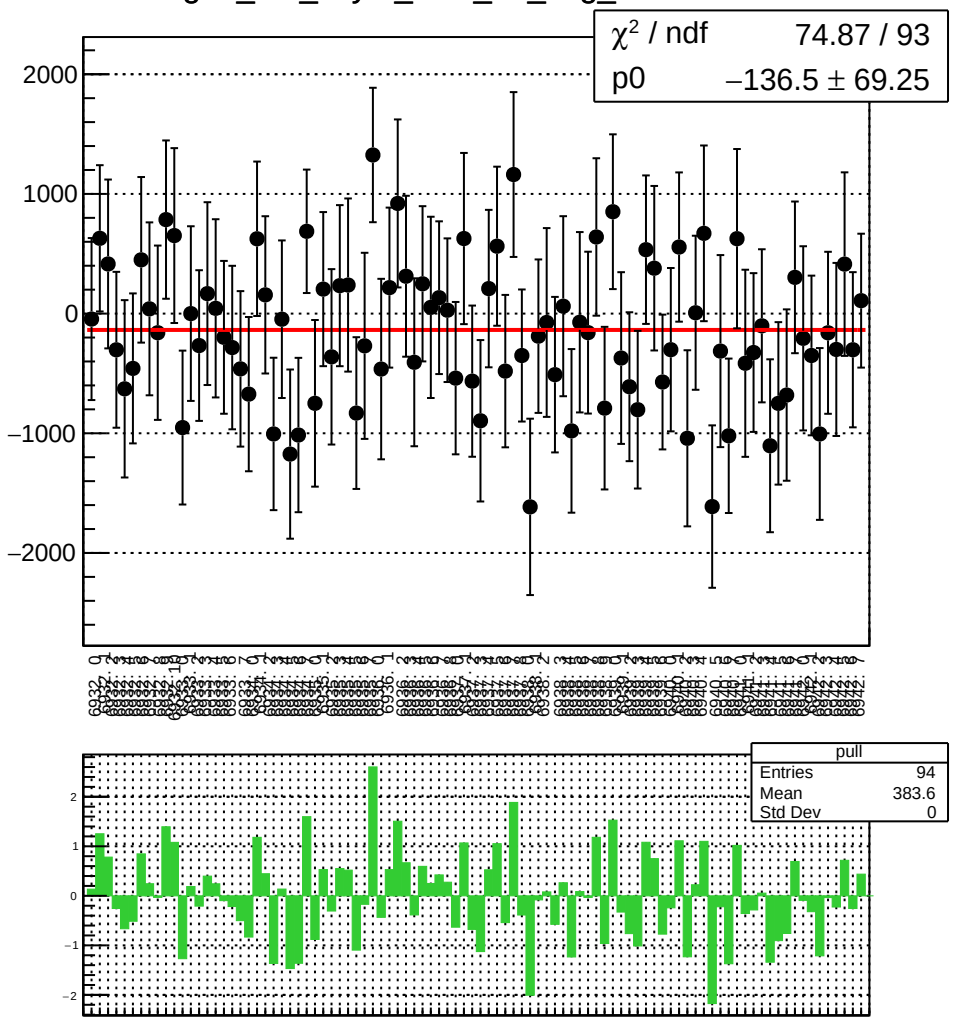

pull1D
Entries 94
Mean −0.01048
Std Dev 0.8924
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

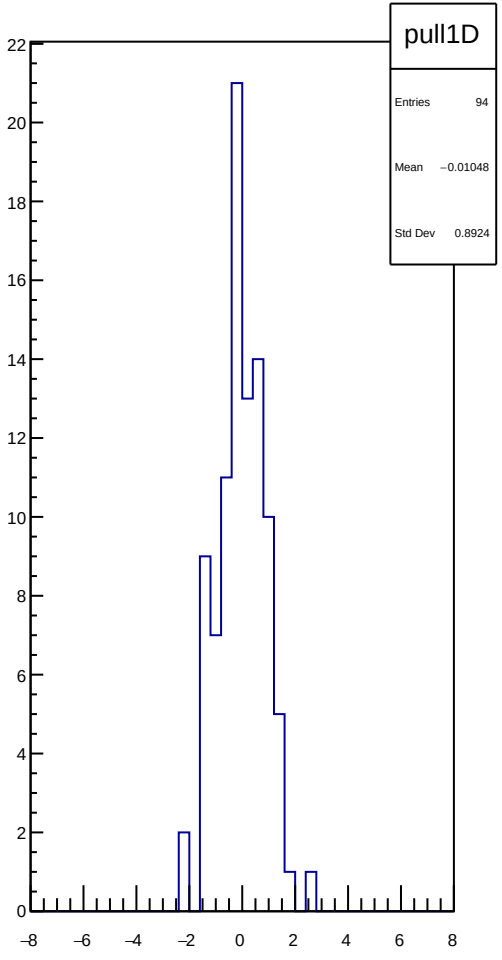

cor_asym_sam_37_avg_rms vs run
χ² / ndf 7839 / 93
p0 64.89 ± 0.04897
78
76
74
72
70
68
66
64
62
60
58
56


asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 77.49 / 93
p0 −57.85 ± 839.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 416.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.003456
Std Dev 0.9079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.452e+04 / 93
p0 784.8 ± 0.5934
1100
1050
1000
950
900
850
800
750
700


eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 74.87 / 93
p0 −136.5 ± 69.25
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 383.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.01048
Std Dev 0.8924
22
20
18
16
14
12
10
8
6
4
2
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−4
−2
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2
4
6
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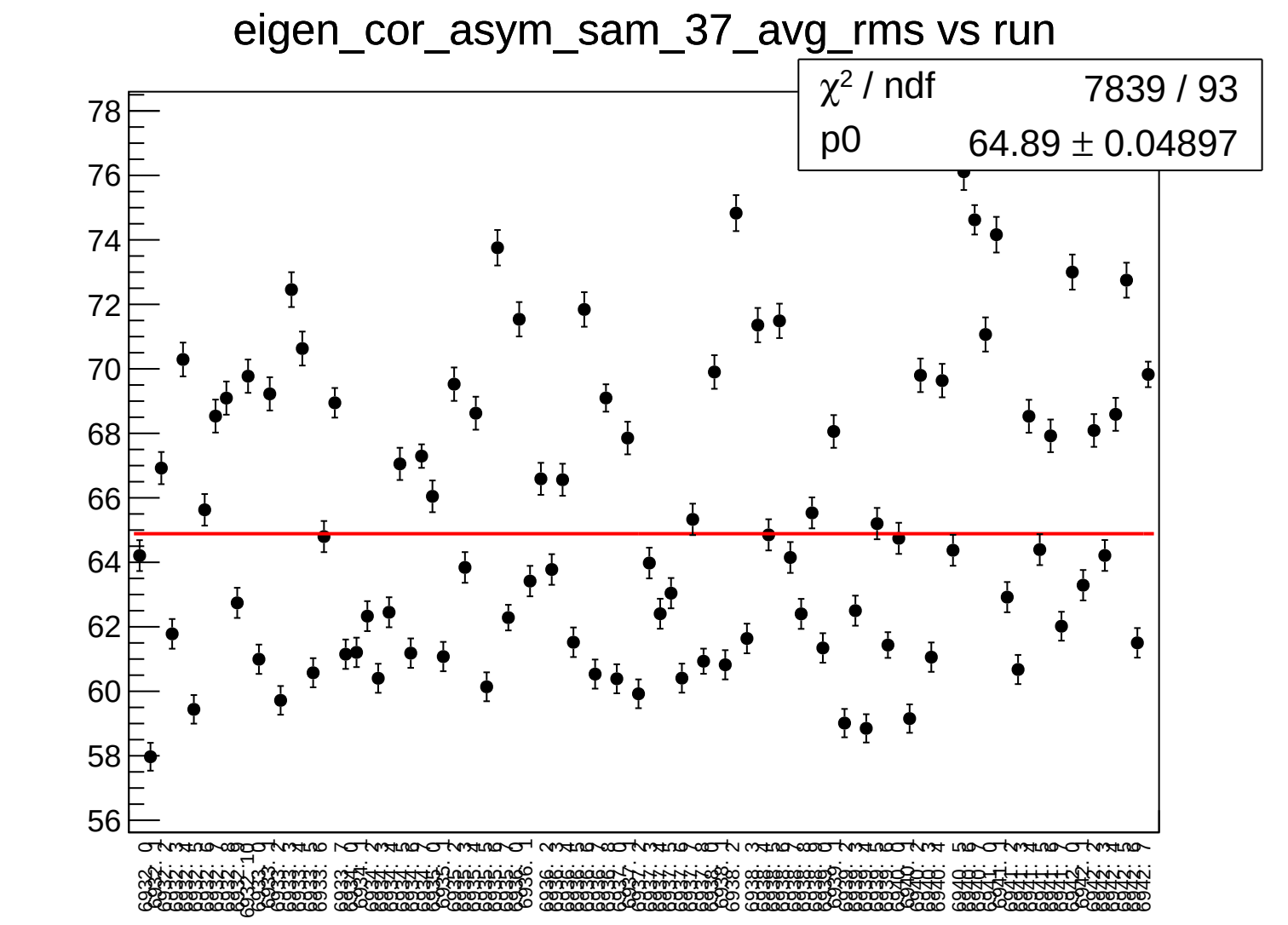
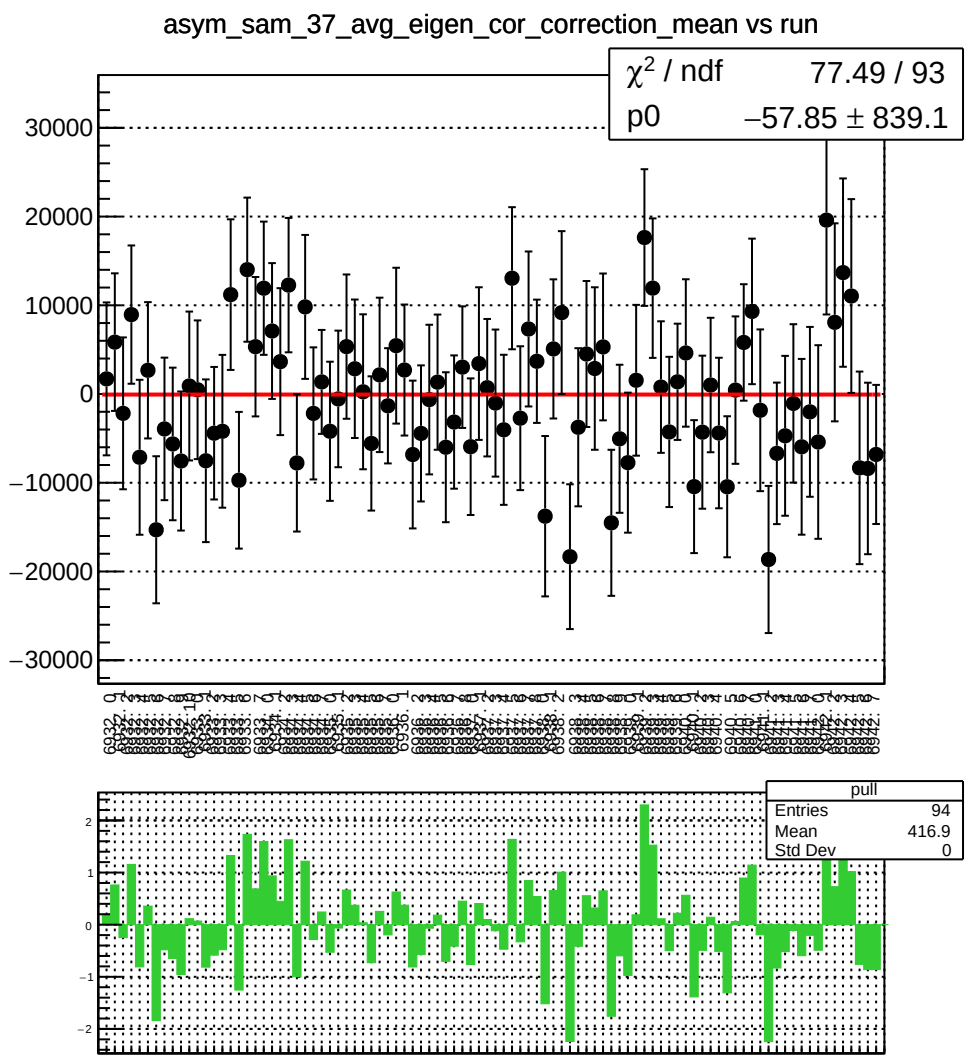
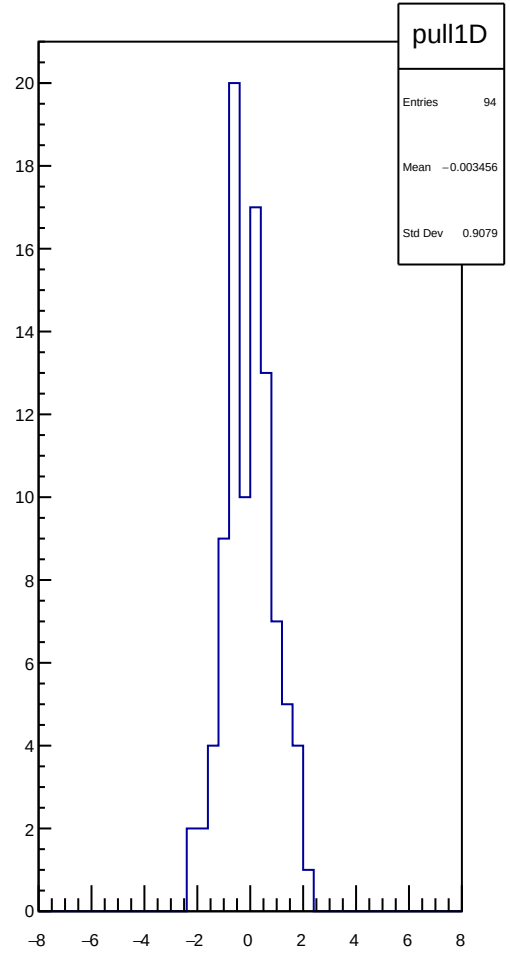
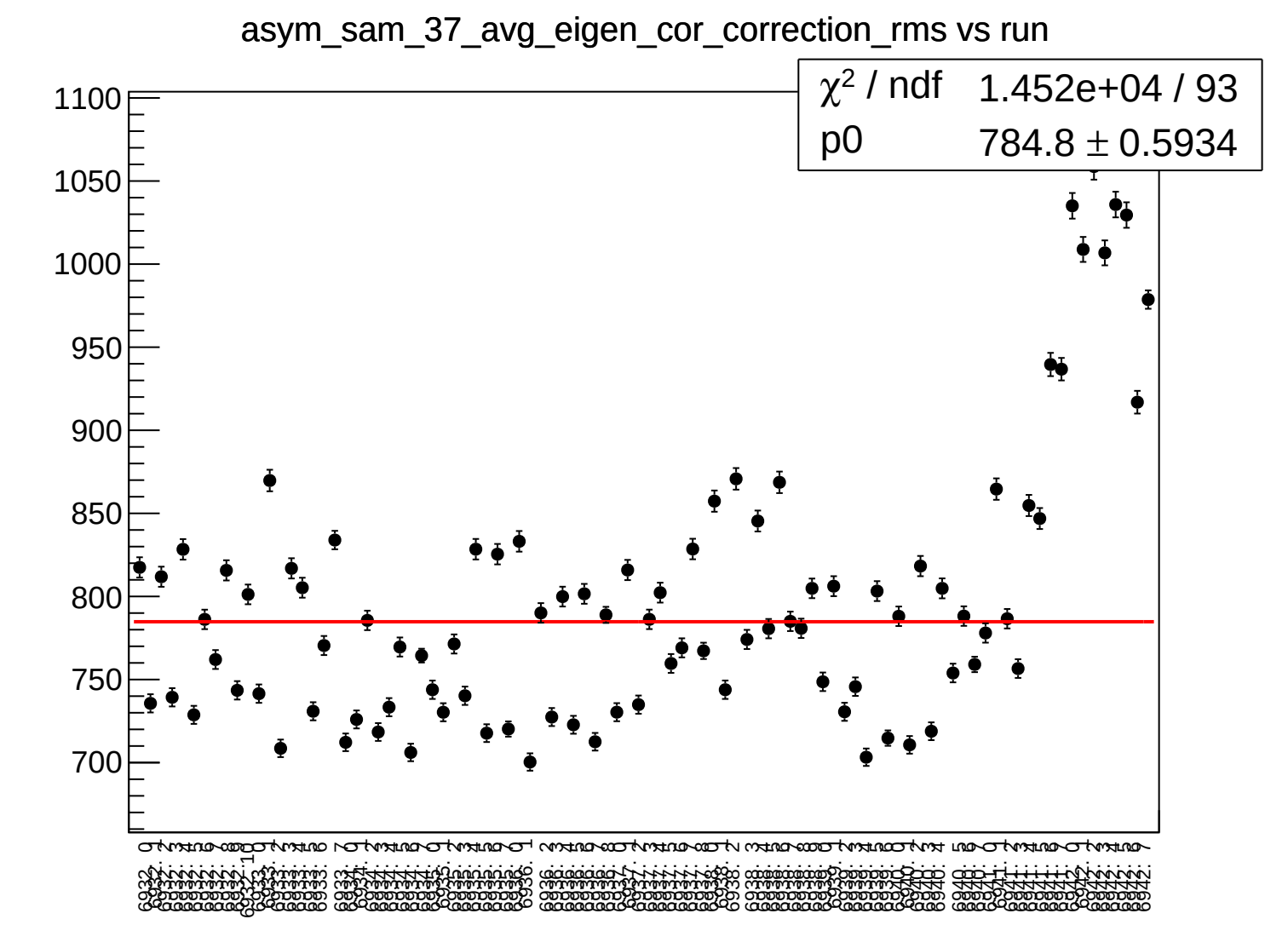
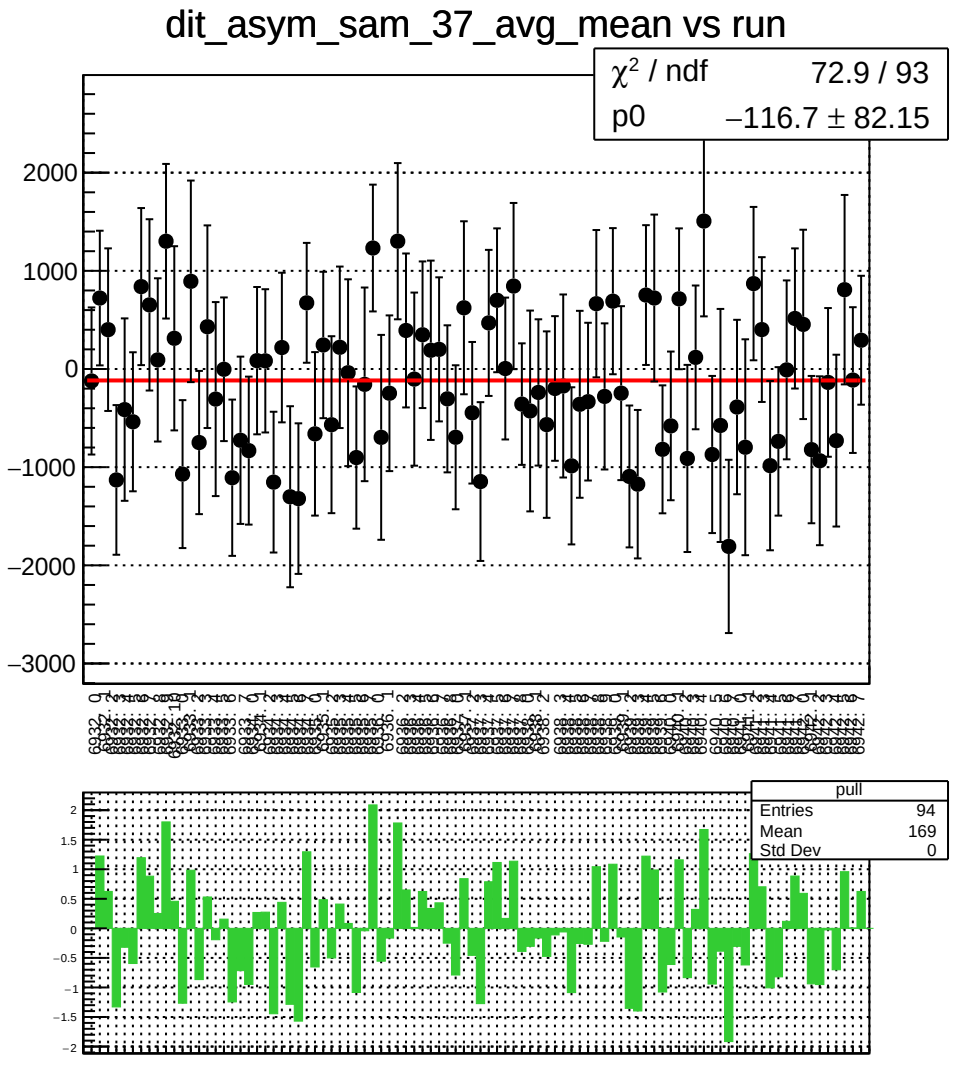
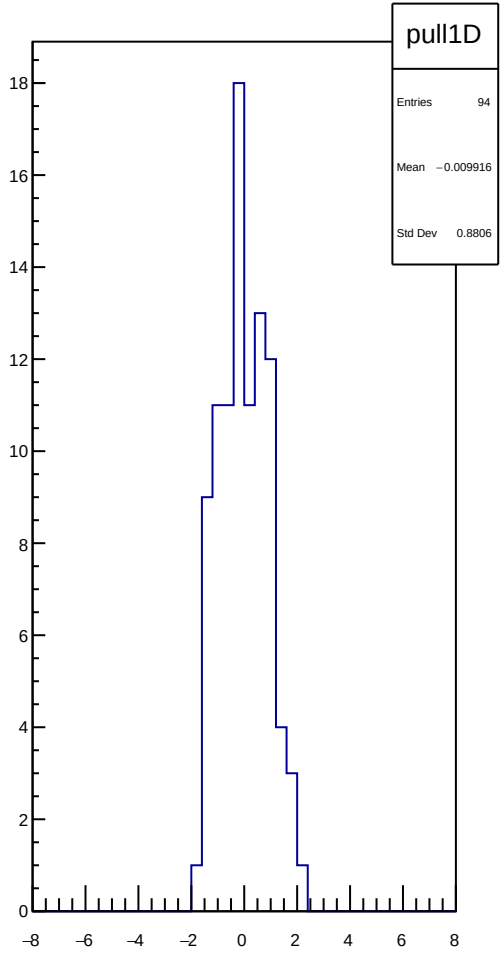

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 7839 / 93
p0 64.89 ± 0.04897
78
76
74
72
70
68
66
64
62
60
58
56

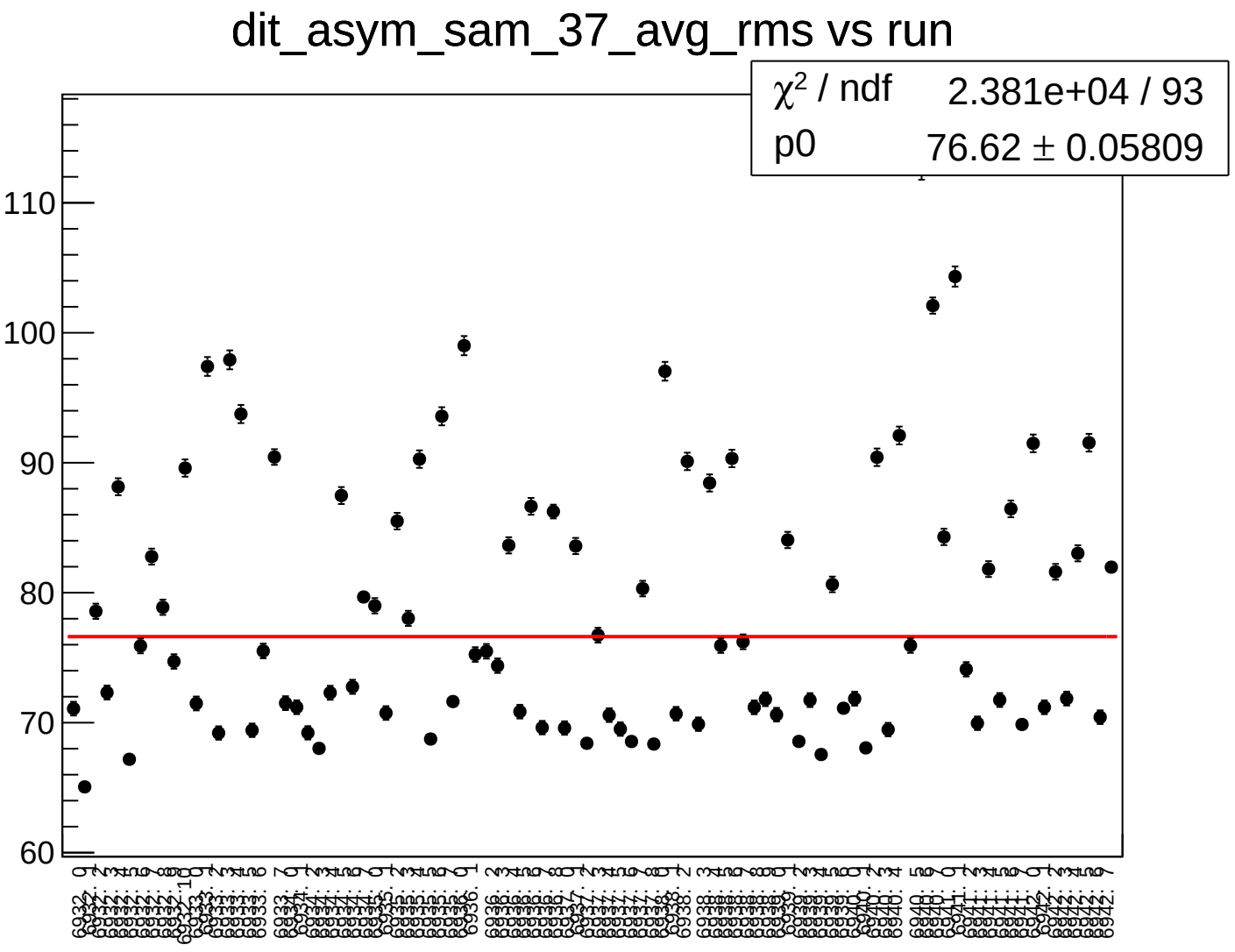

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.49 / 93
p0 −57.85 ± 839.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 416.9
Std Dev 0
2
1
0
−1
−2

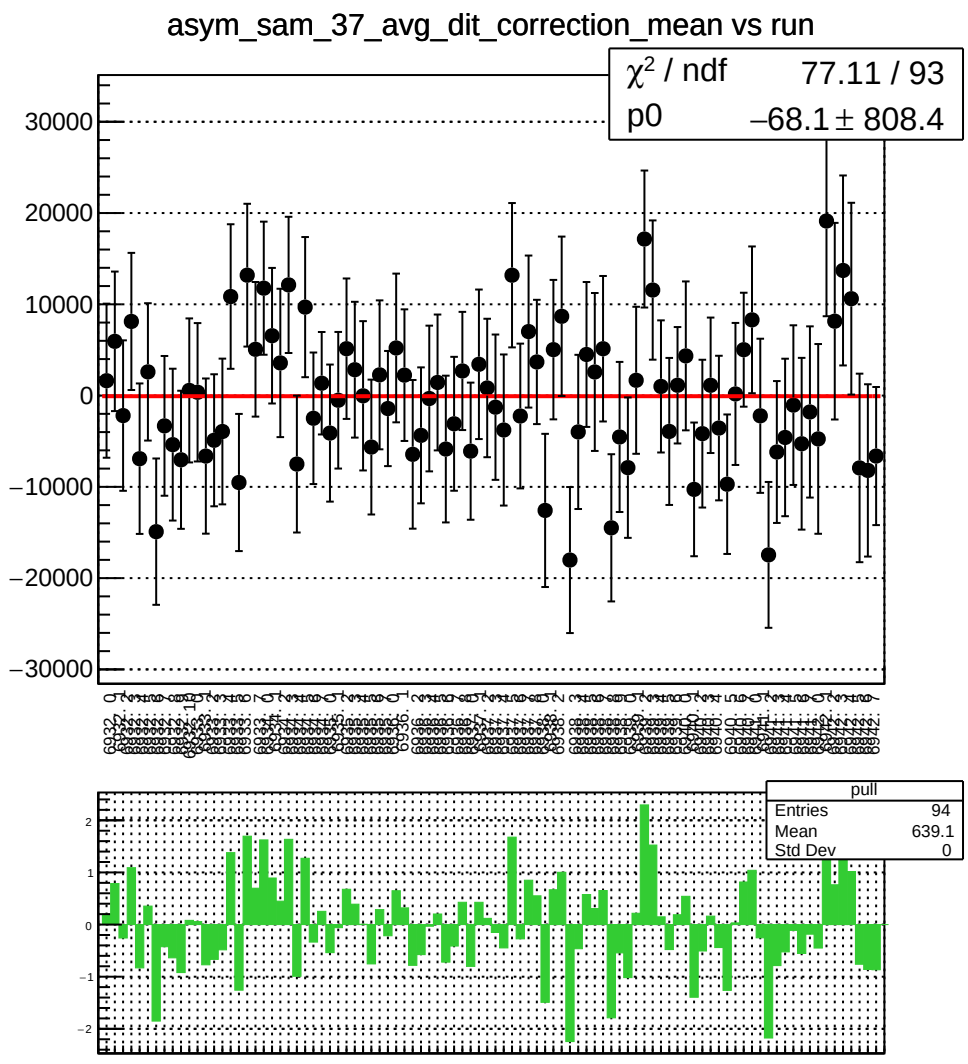

pull1D
Entries 94
Mean −0.003456
Std Dev 0.9079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

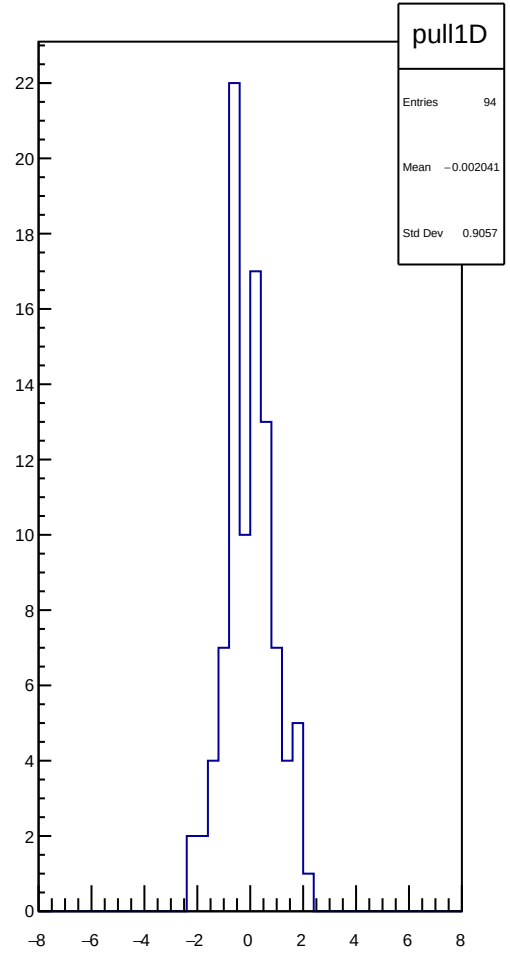

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.452e+04 / 93
p0 784.8 ± 0.5934
1100
1050
1000
950
900
850
800
750
700

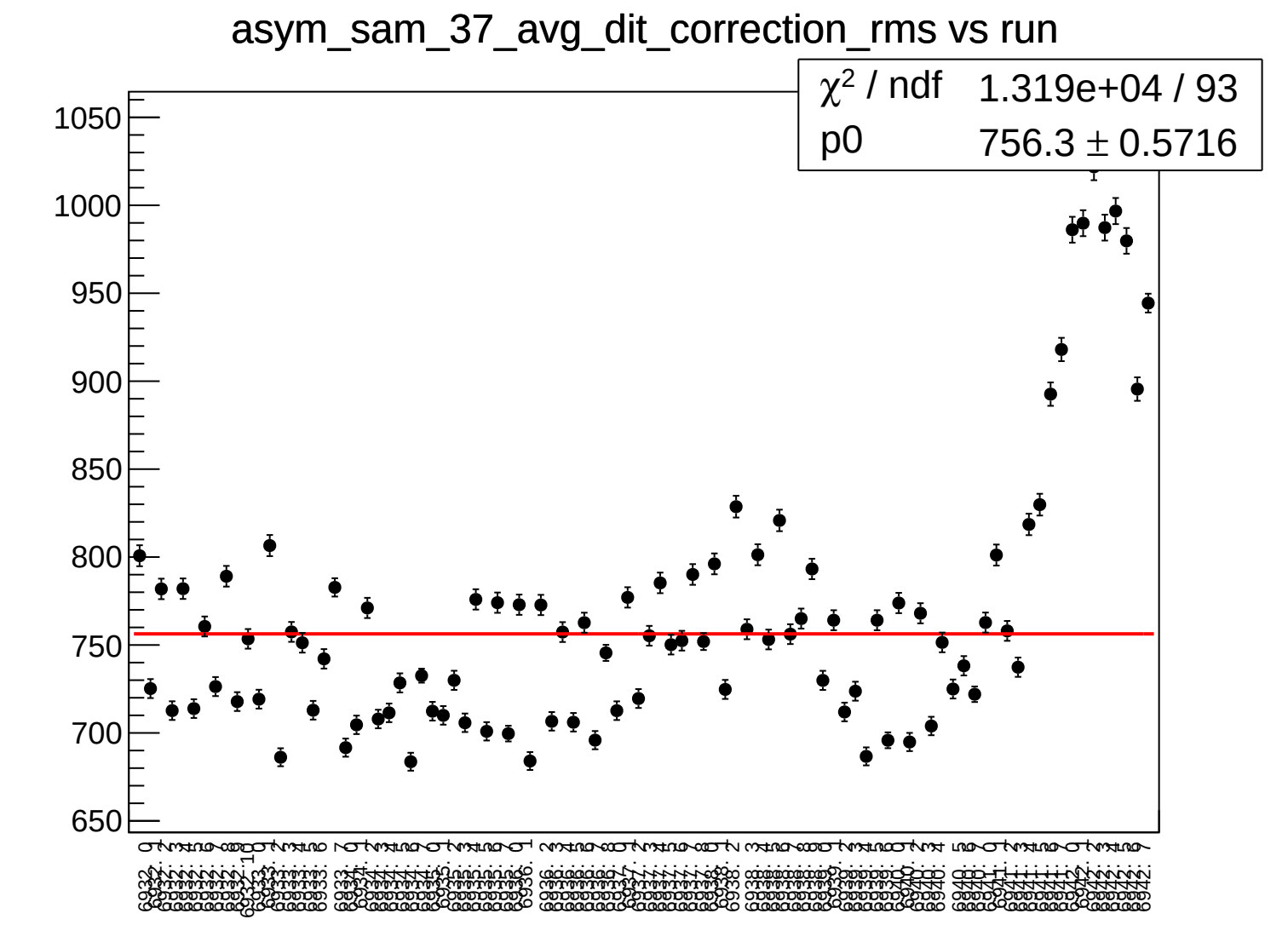

dit_asym_sam_37_avg_mean vs run
χ² / ndf 72.9 / 93
p0 −116.7 ± 82.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

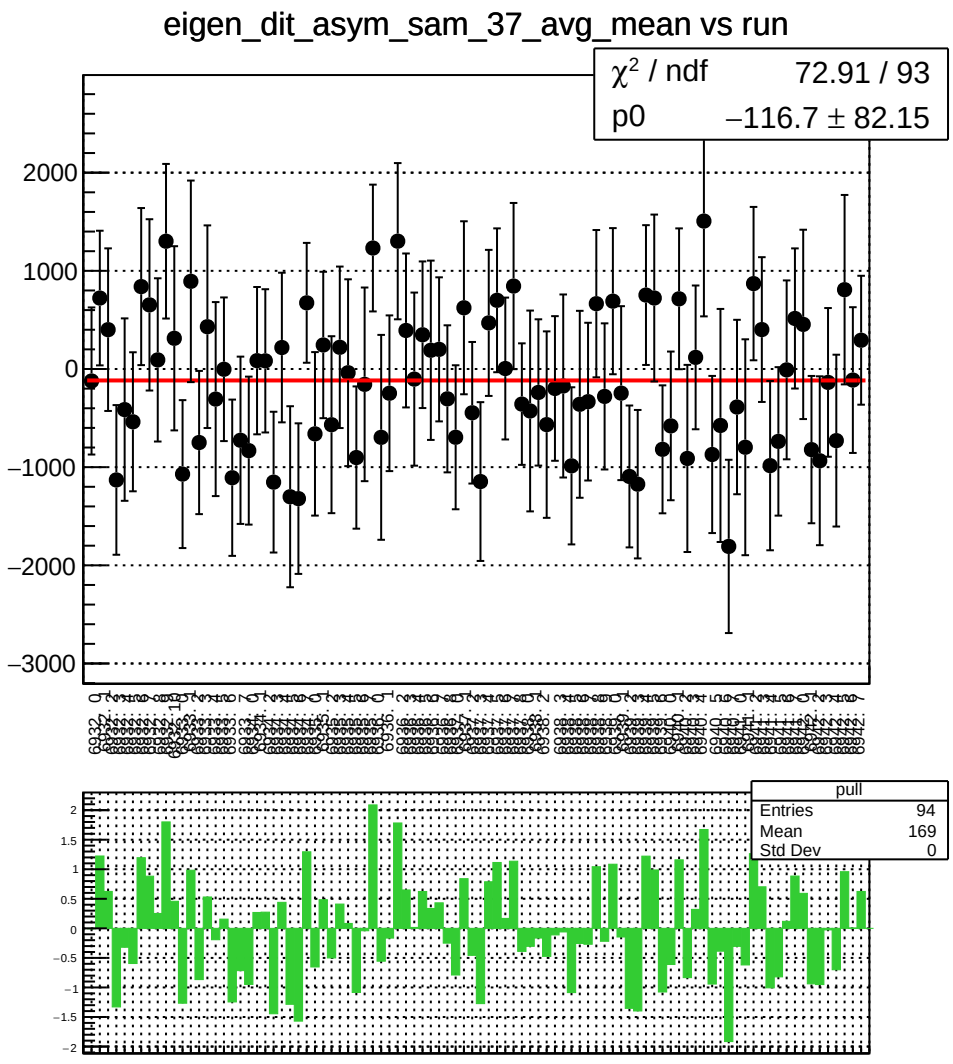

pull1D
Entries 94
Mean −0.009916
Std Dev 0.8806
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

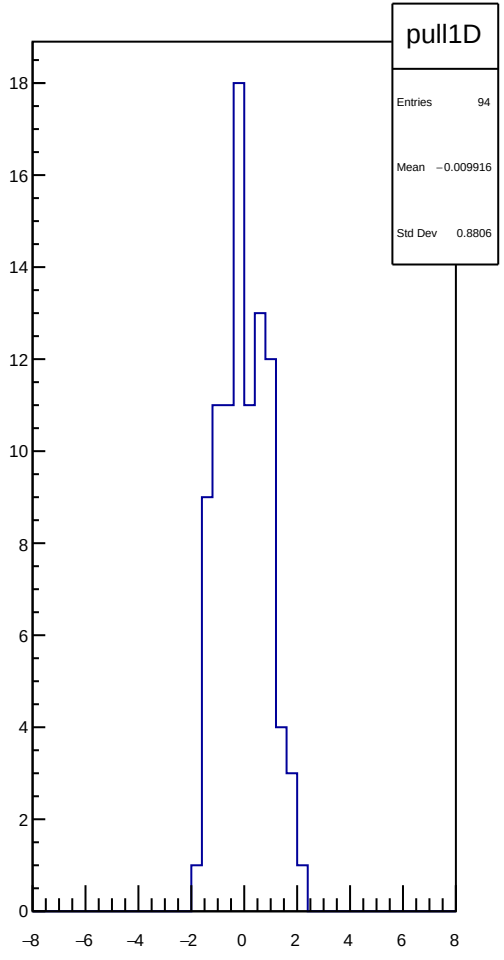

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.381e+04 / 93
p0 76.62 ± 0.05809
110
100
90
80
70
60

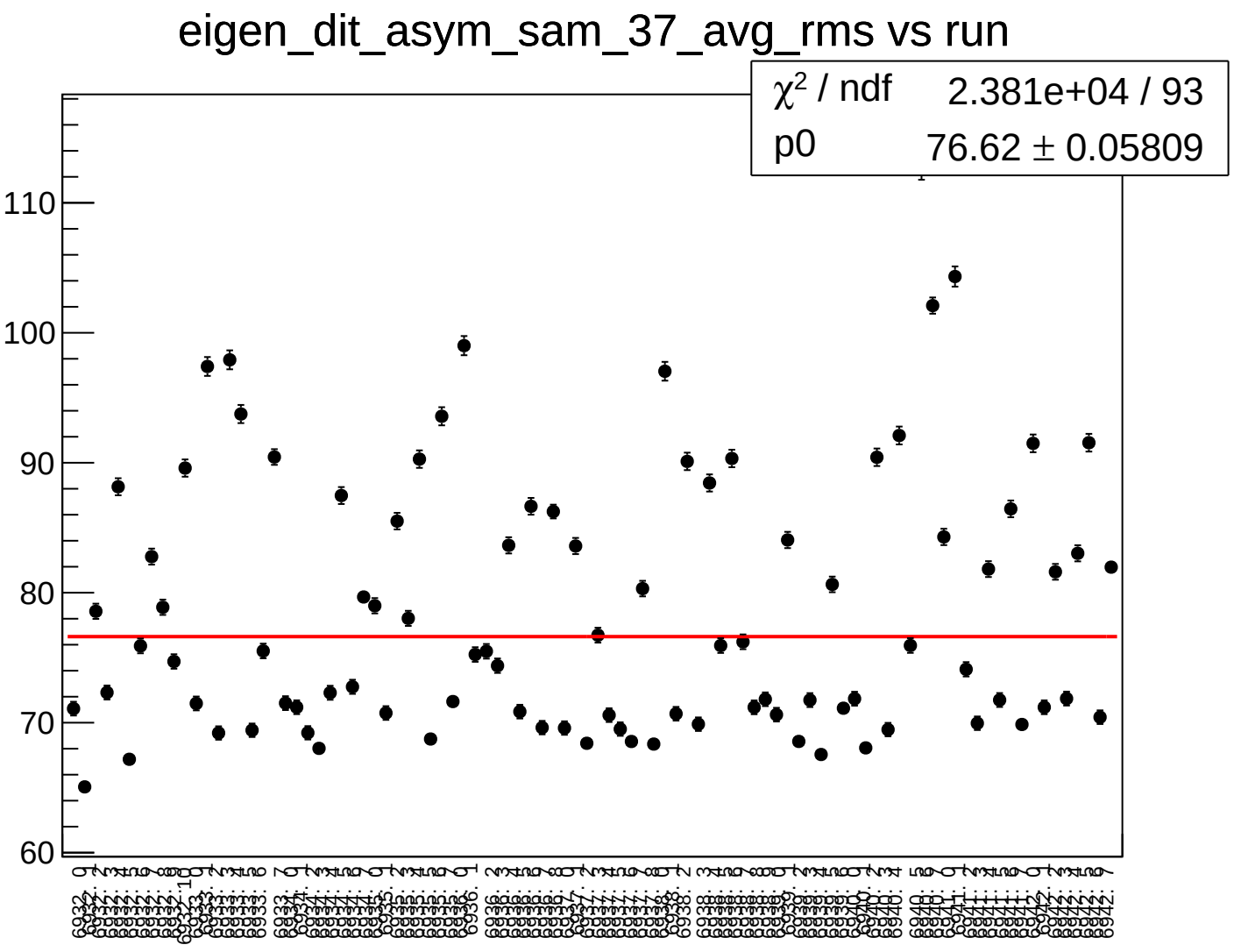

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 77.11 / 93
p0 −68.1 ± 808.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 639.1
Std Dev 0
2
1
0
−1
−2

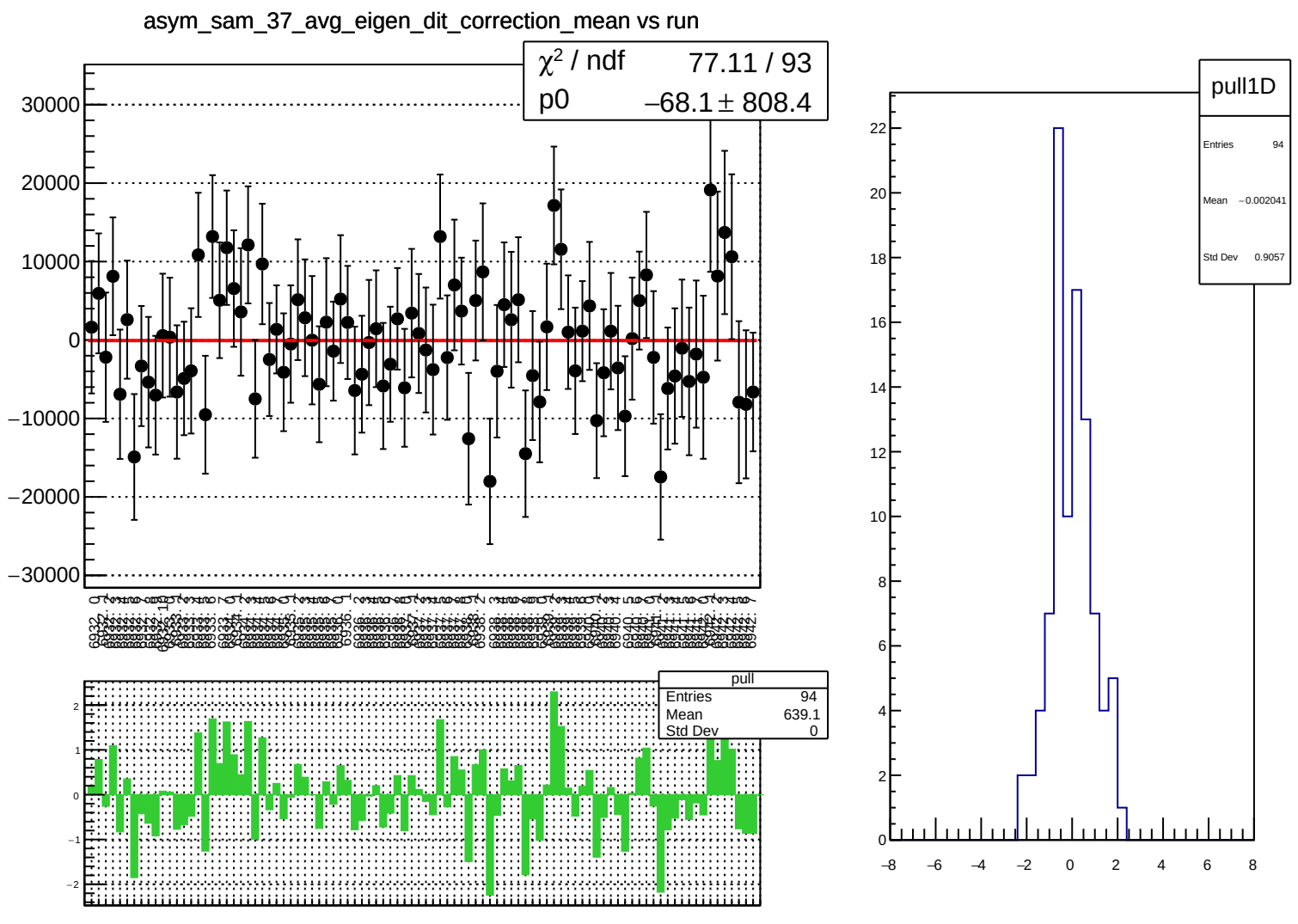

pull1D
Entries 94
Mean −0.002041
Std Dev 0.9057
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

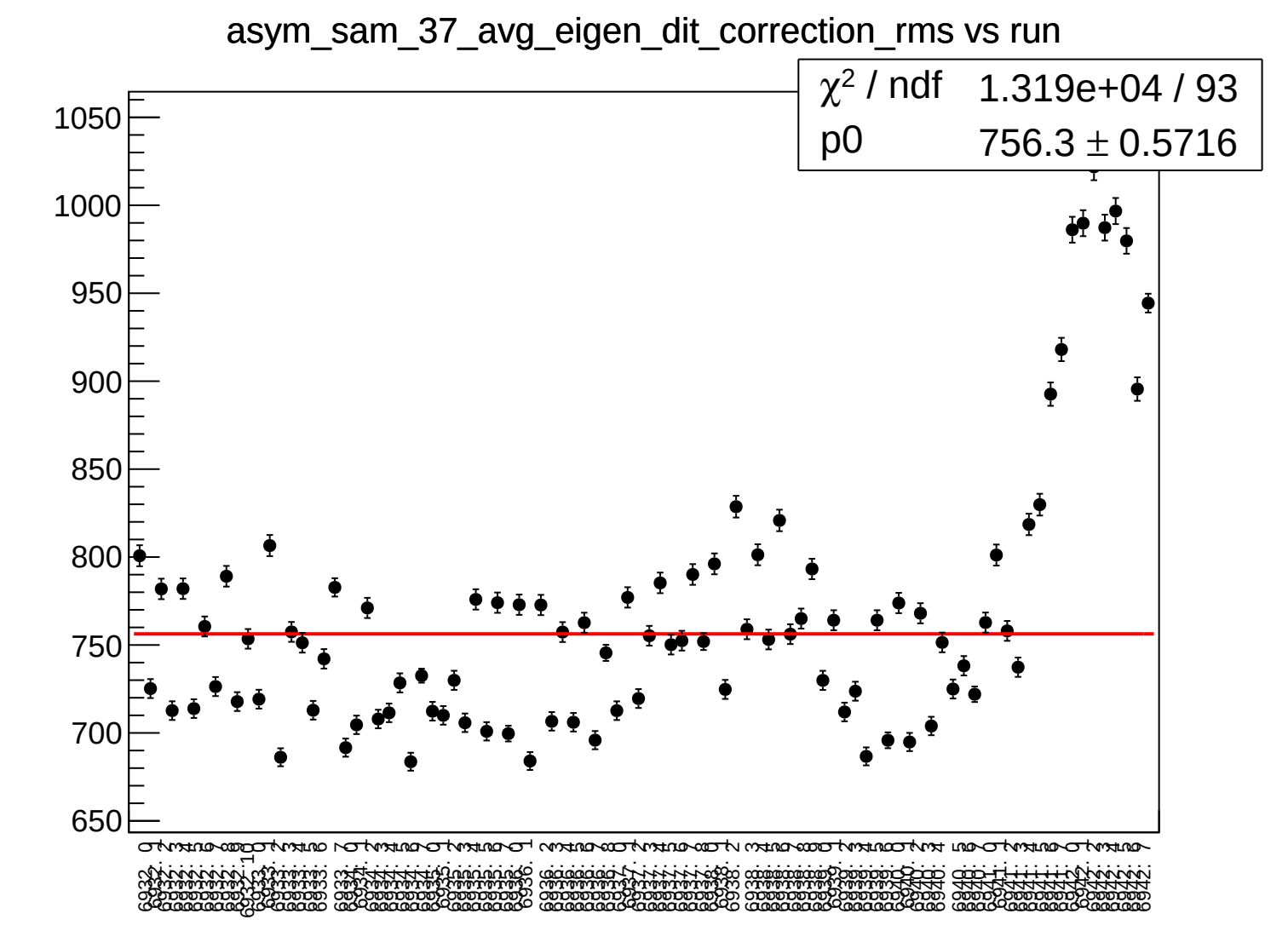

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 93
p0 756.3 ± 0.5716
1050
1000
950
900
850
800
750
700
650

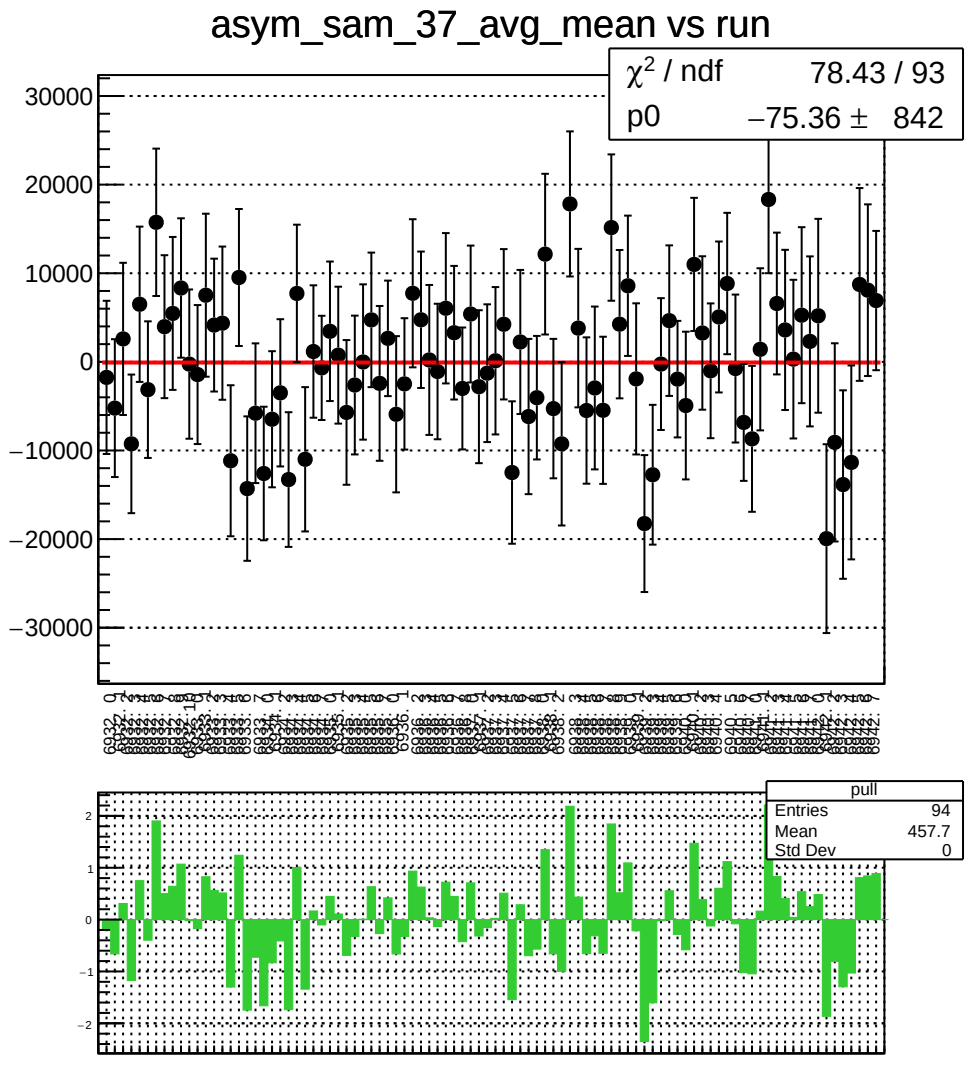

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 72.91 / 93
p0 −116.7 ± 82.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 169
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

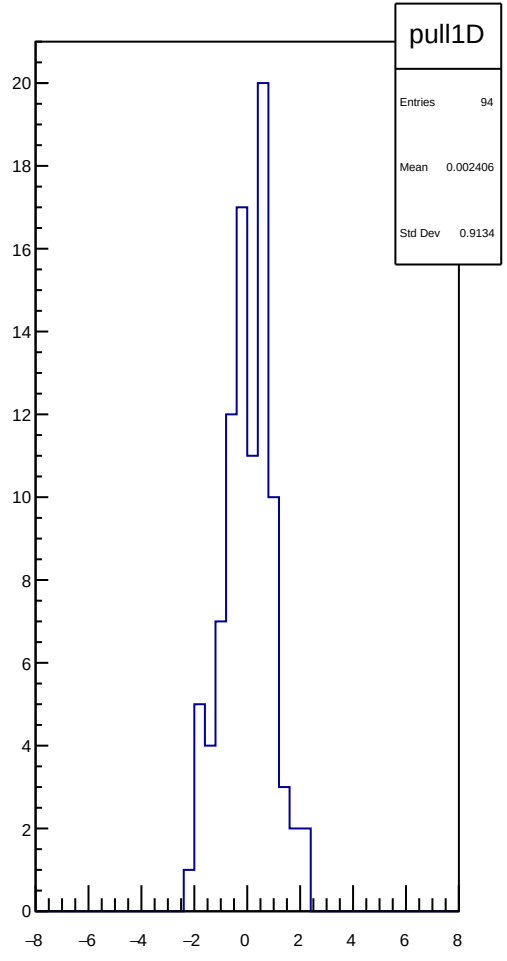

pull1D
Entries 94
Mean −0.009916
Std Dev 0.8806
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

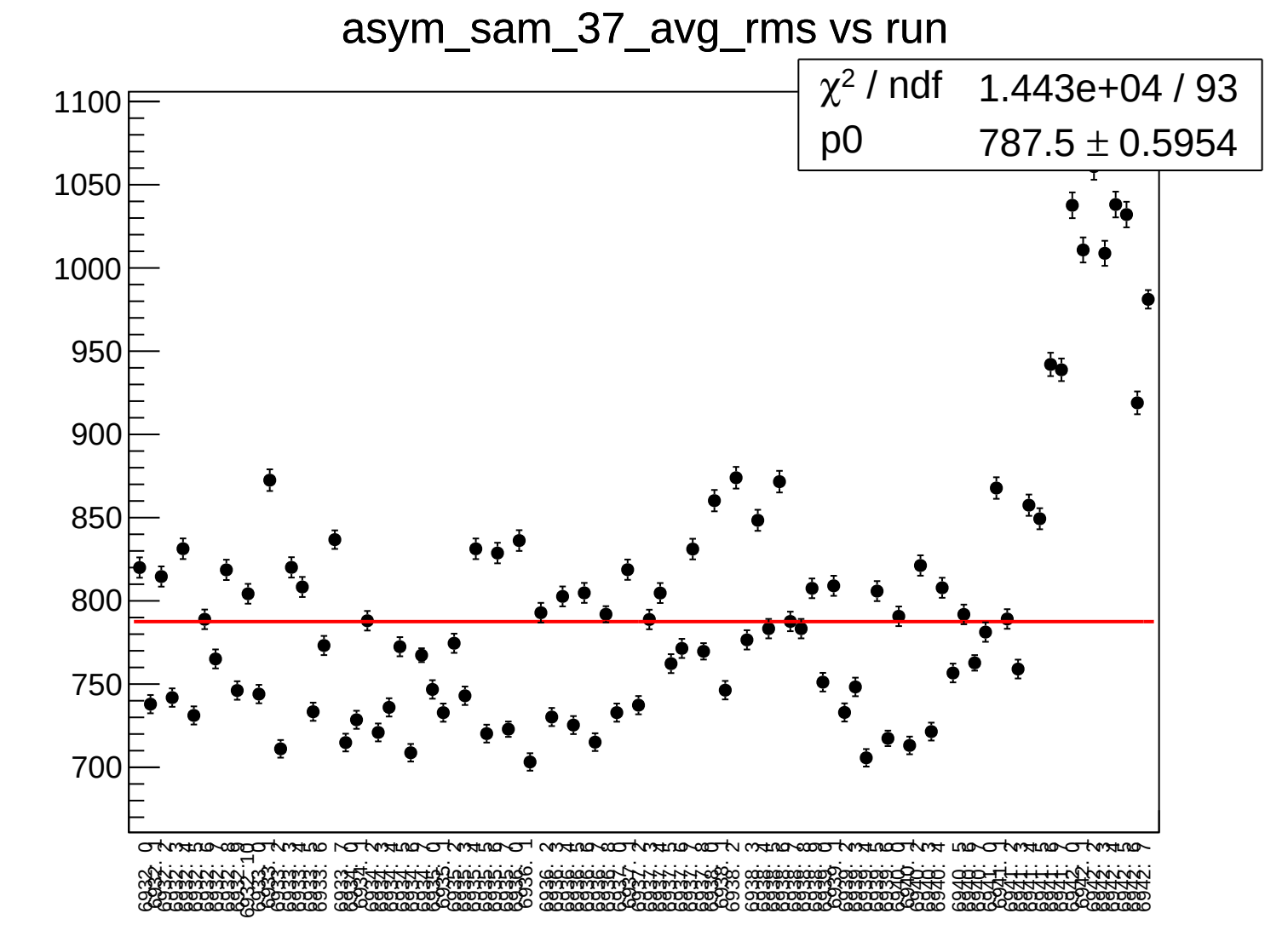

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.381e+04 / 93
p0 76.62 ± 0.05809
110
100
90
80
70
60

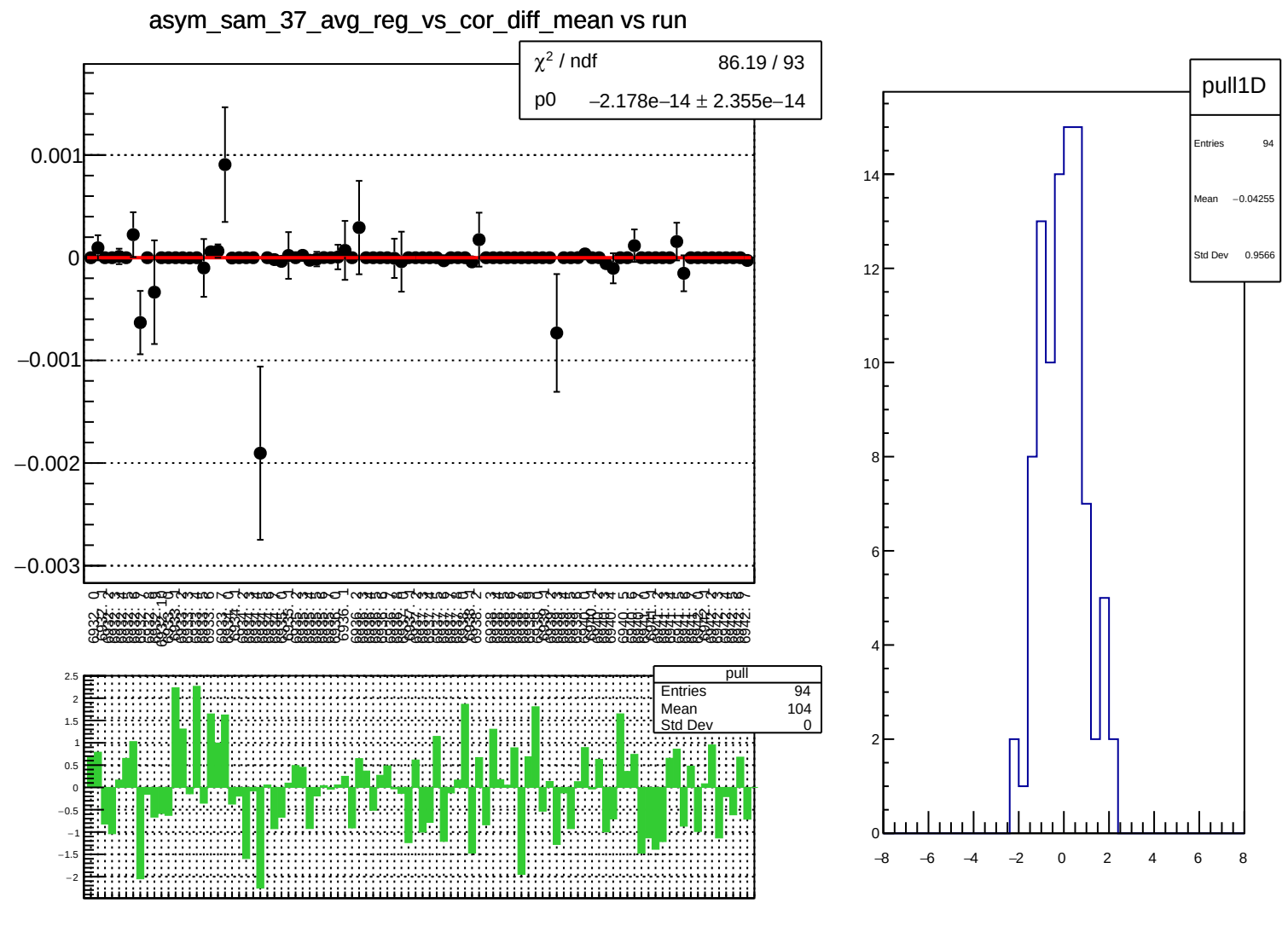

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.11 / 93
p0 −68.1 ± 808.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 639.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002041
Std Dev 0.9057
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

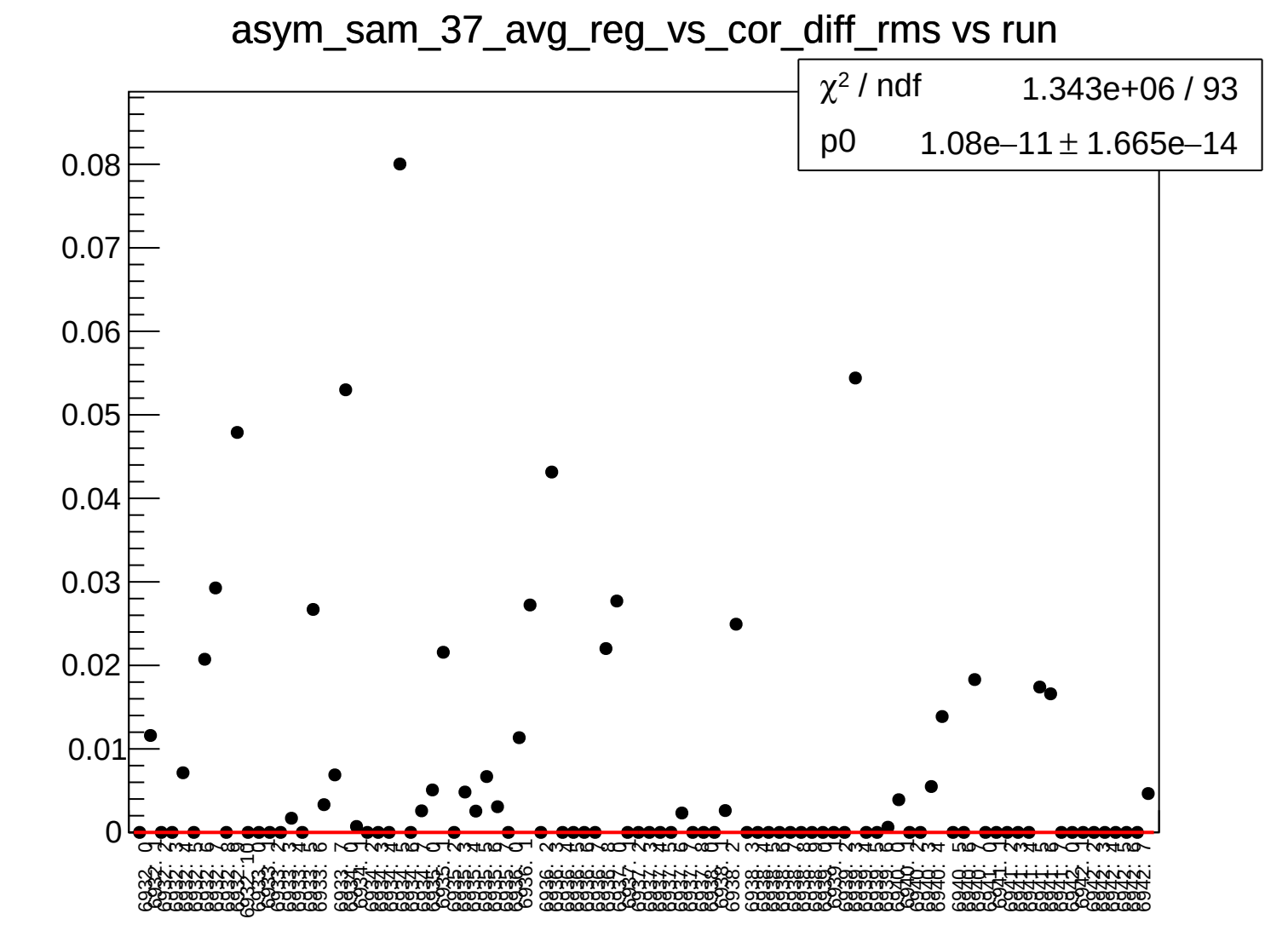

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.319e+04 / 93
p0 756.3 ± 0.5716
1050
1000
950
900
850
800
750
700
650

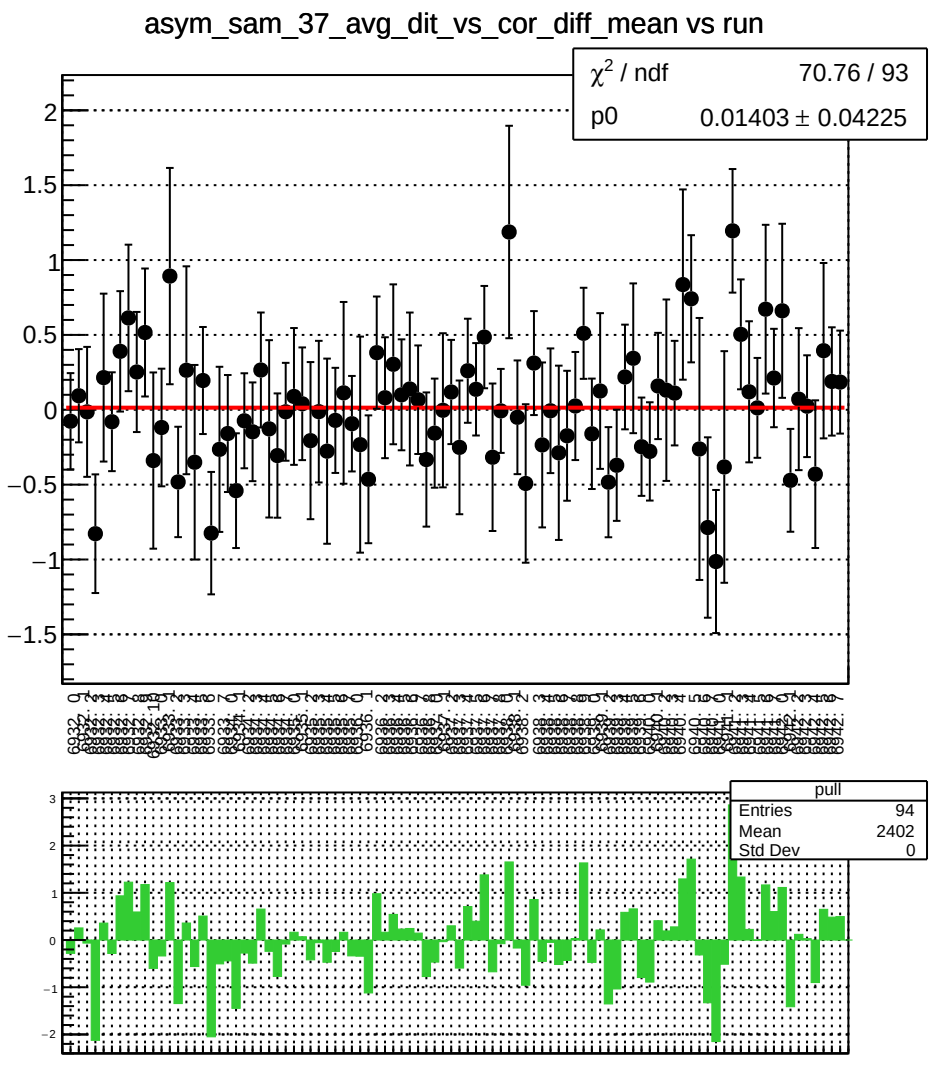

asym_sam_37_avg_mean vs run
χ² / ndf 78.43 / 93
p0 −75.36 ± 842
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 457.7
Std Dev 0
2
1
0
−1
−2

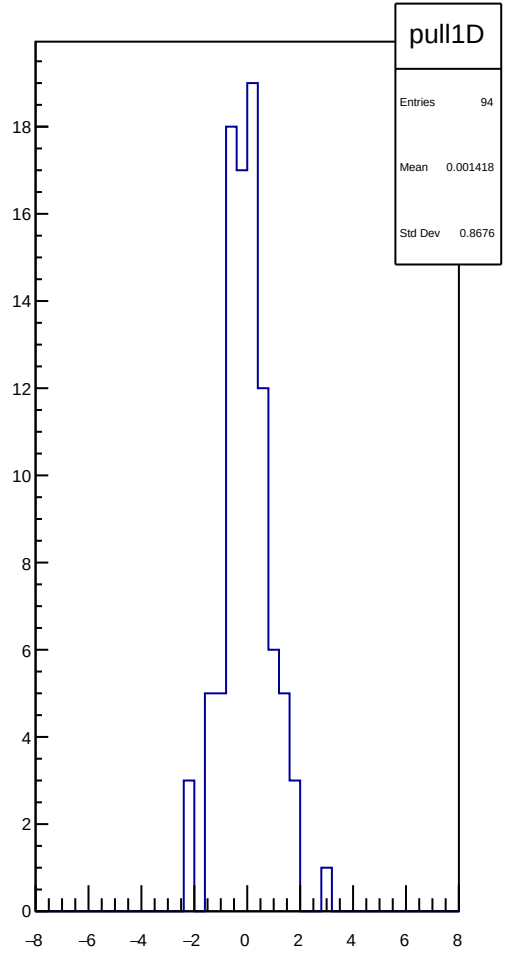

pull1D
Entries 94
Mean 0.002406
Std Dev 0.9134
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

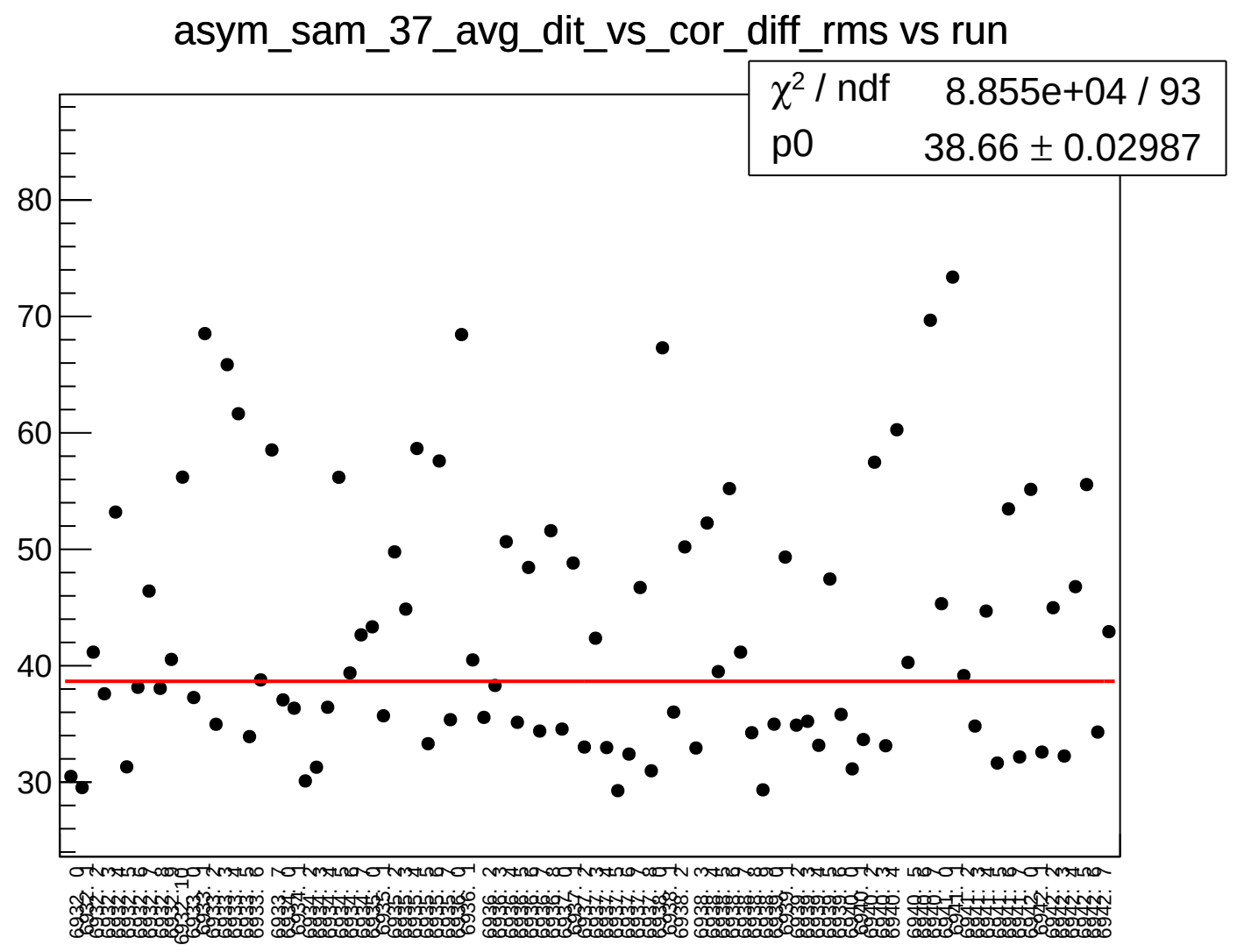

asym_sam_37_avg_rms vs run
χ² / ndf 1.443e+04 / 93
p0 787.5 ± 0.5954
1100
1050
1000
950
900
850
800
750
700

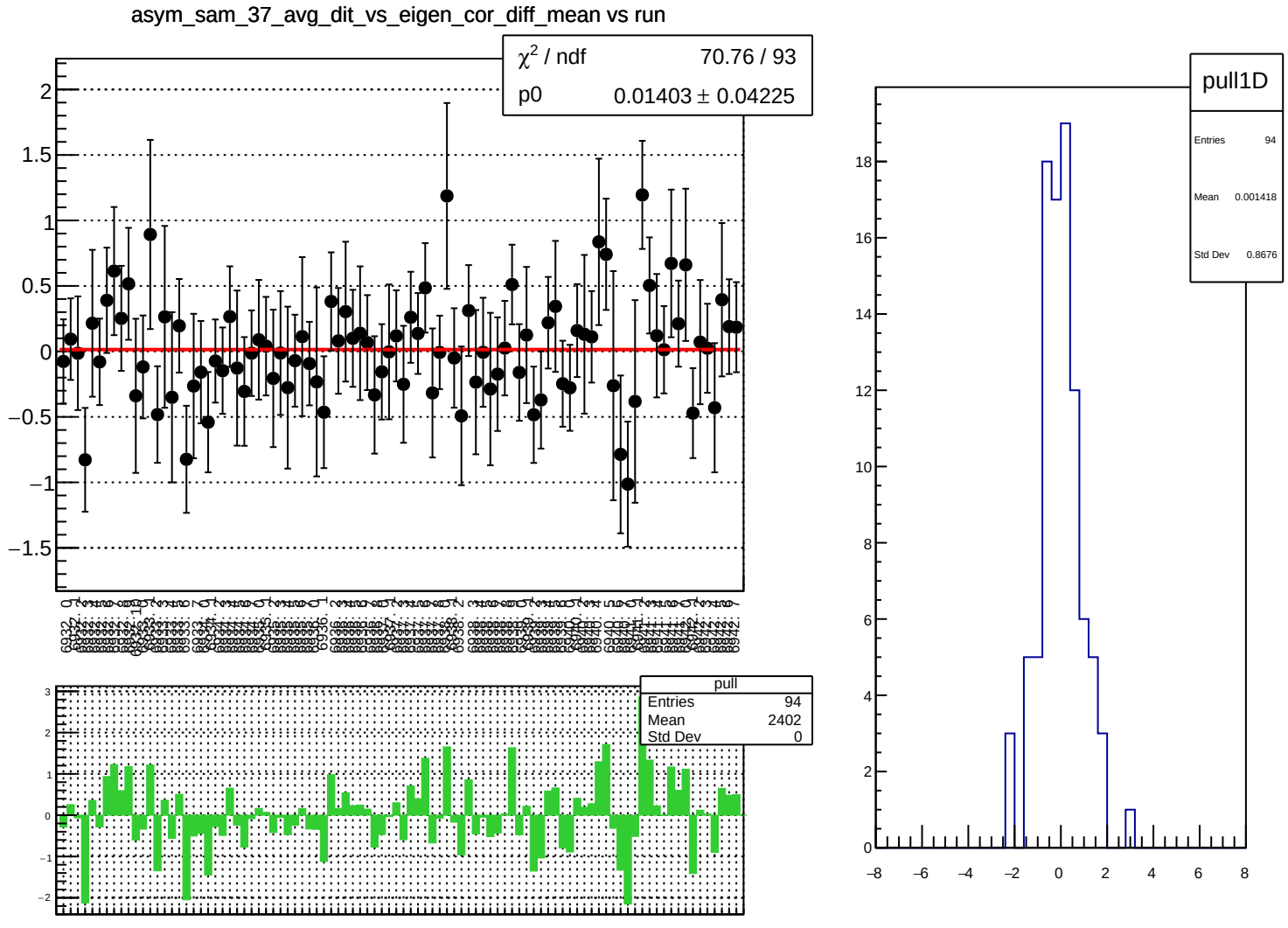

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.19 / 93
p0 −2.178e−14 ± 2.355e−14
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 104
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.04255
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

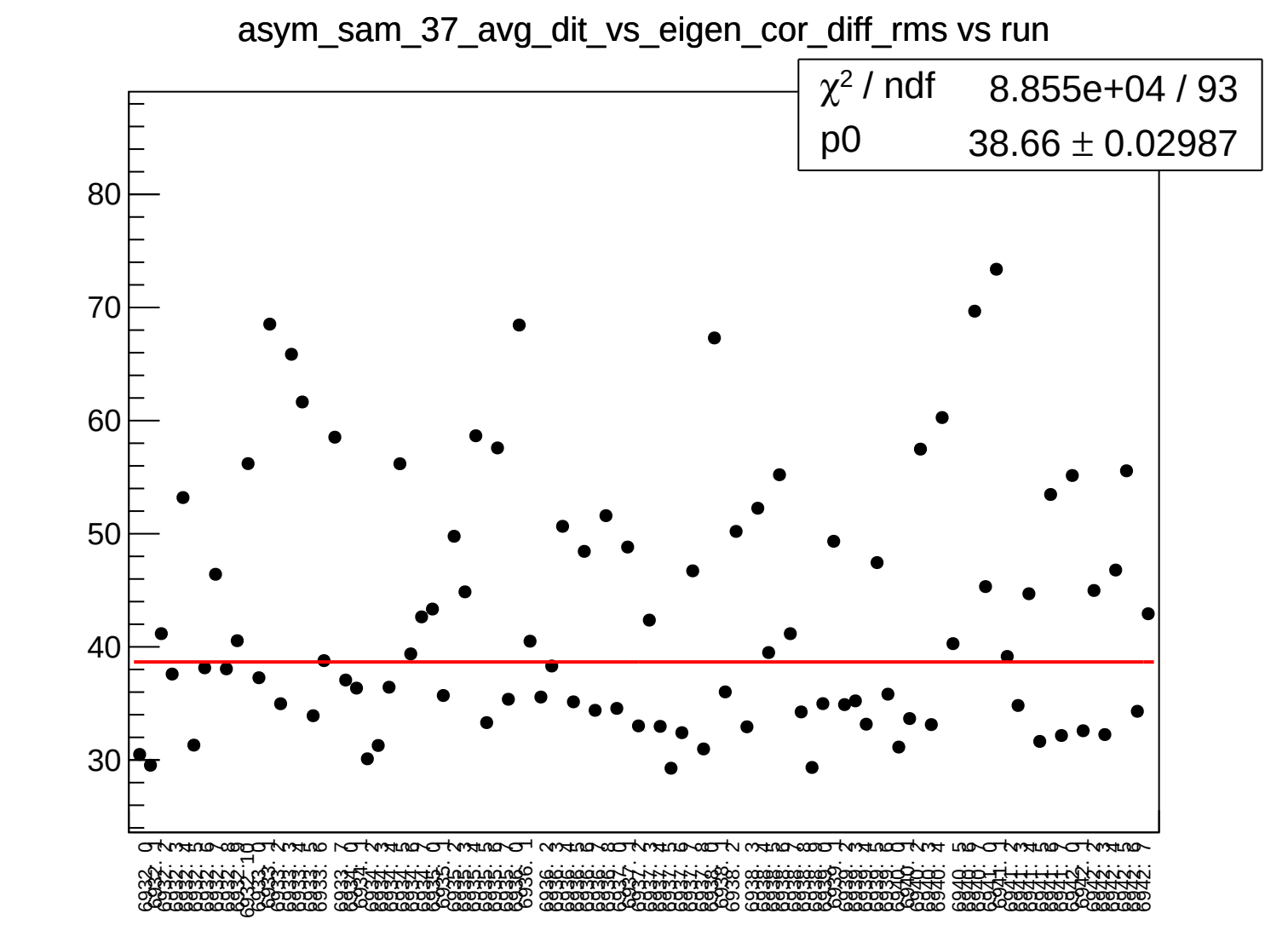

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.343e+06 / 93
p0 1.08e−11 ± 1.665e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

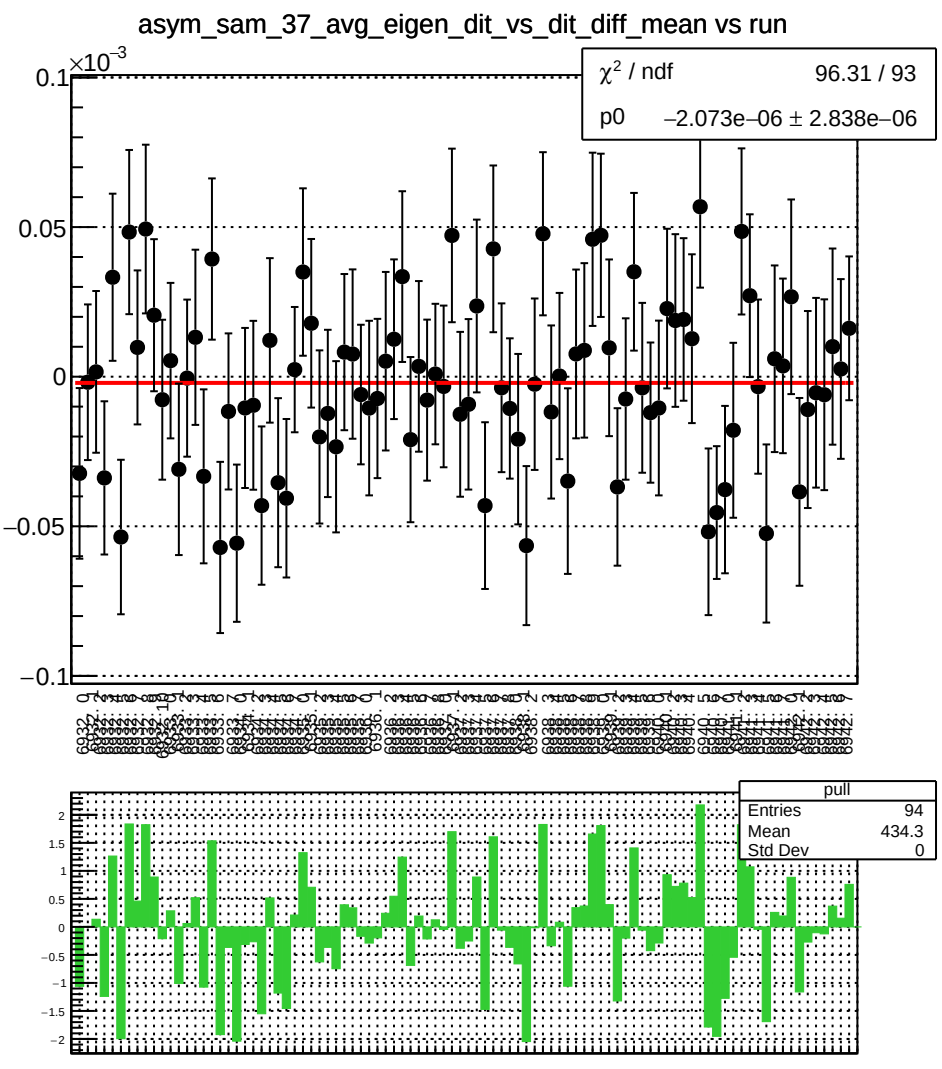

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 93
p0 0.01403 ± 0.04225
pull
Entries 94
Mean 2402
Std Dev 0

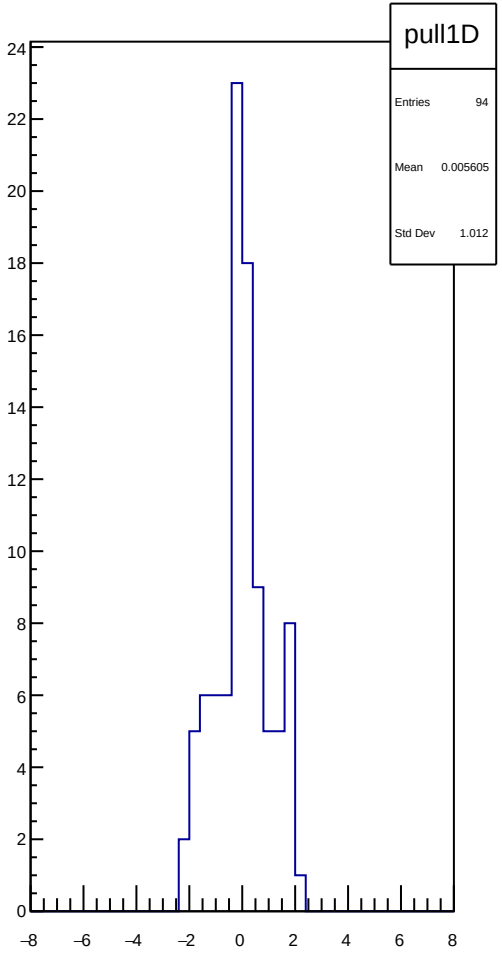

pull1D
Entries 94
Mean 0.001418
Std Dev 0.8676

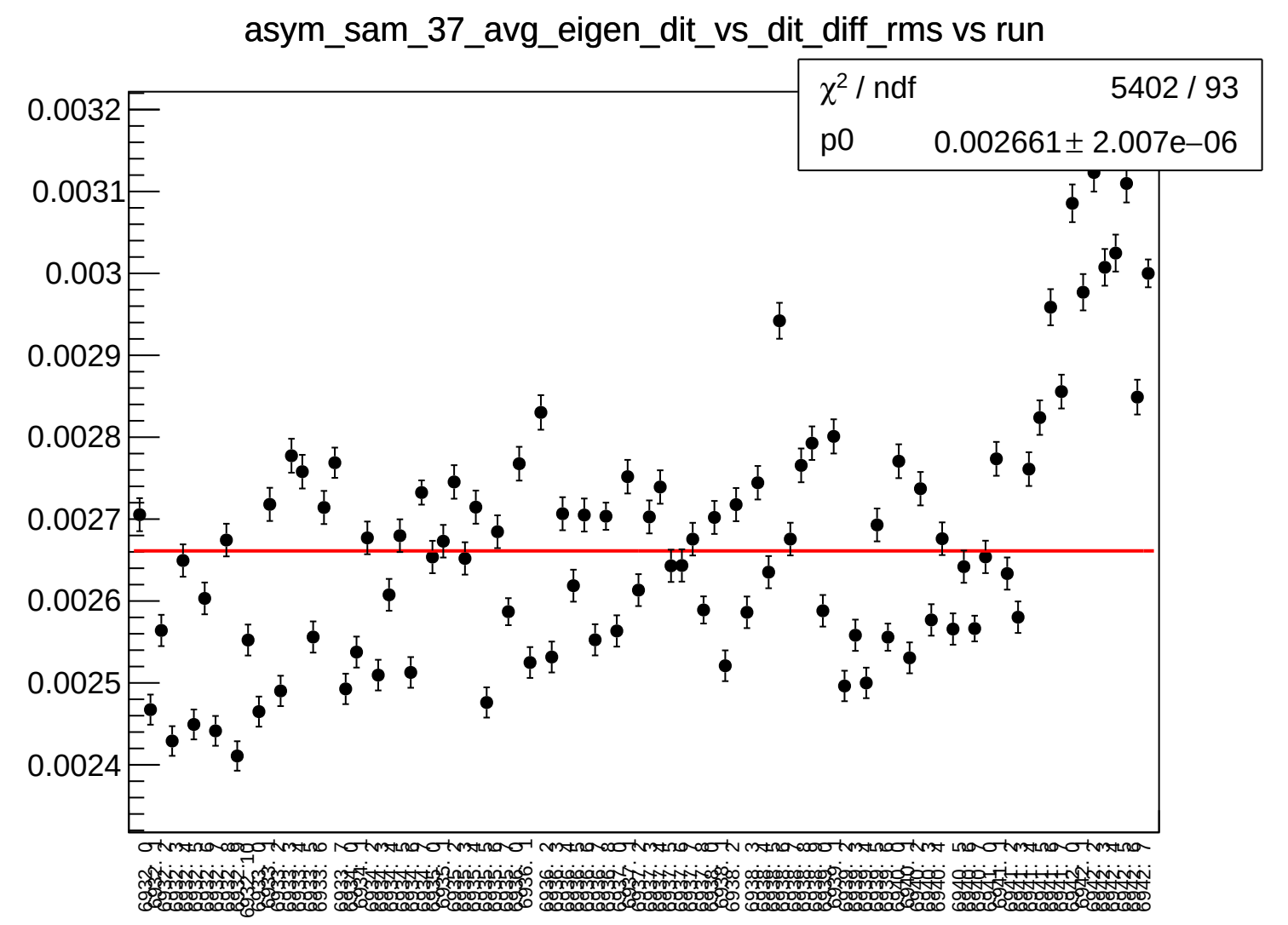

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.855e+04 / 93
p0 38.66 ± 0.02987
80
70
60
50
40
30

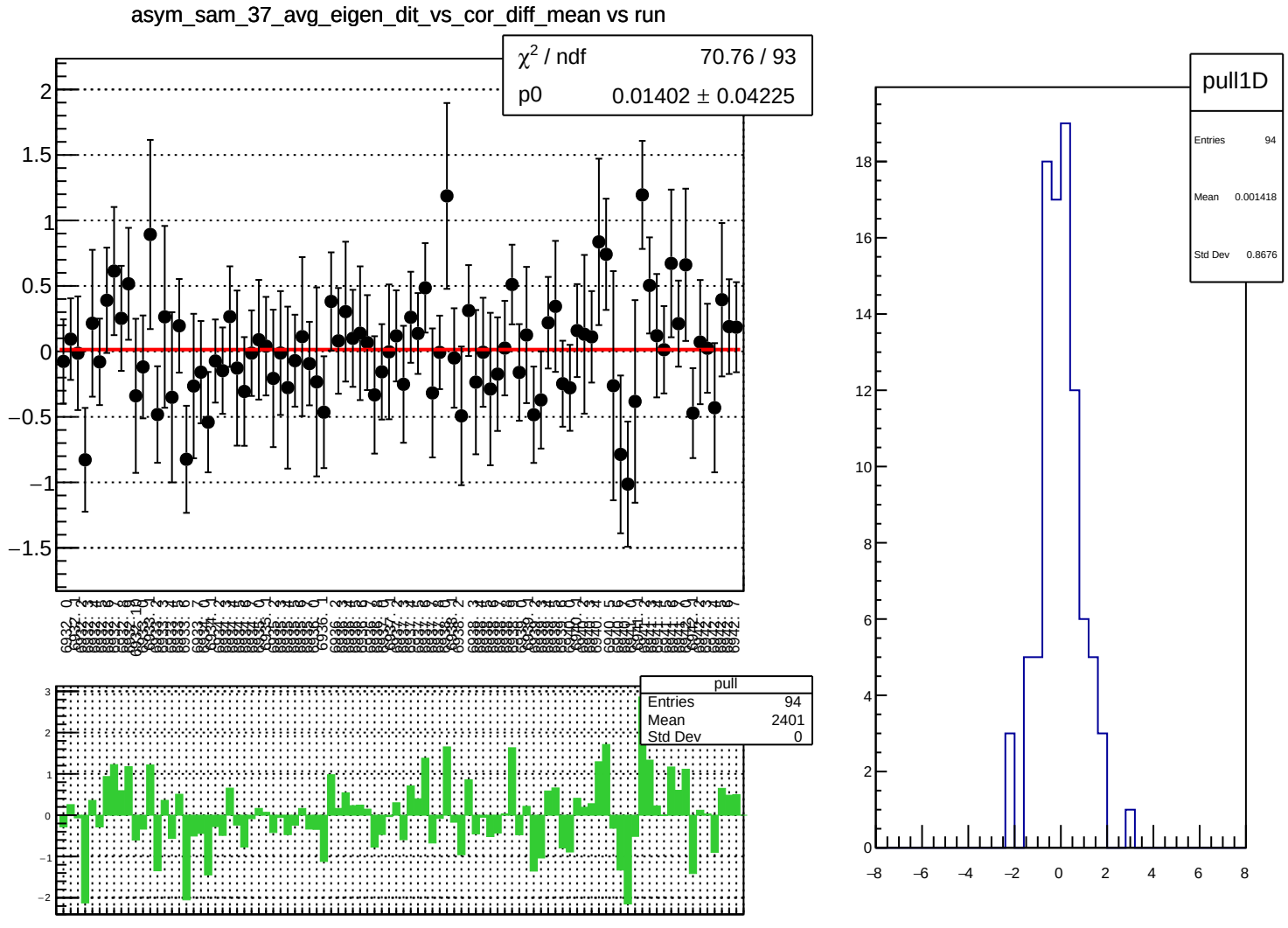

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 93
p0 0.01403 ± 0.04225
pull
Entries 94
Mean 2402
Std Dev 0
pull1D
Entries 94
Mean 0.001418
Std Dev 0.8676

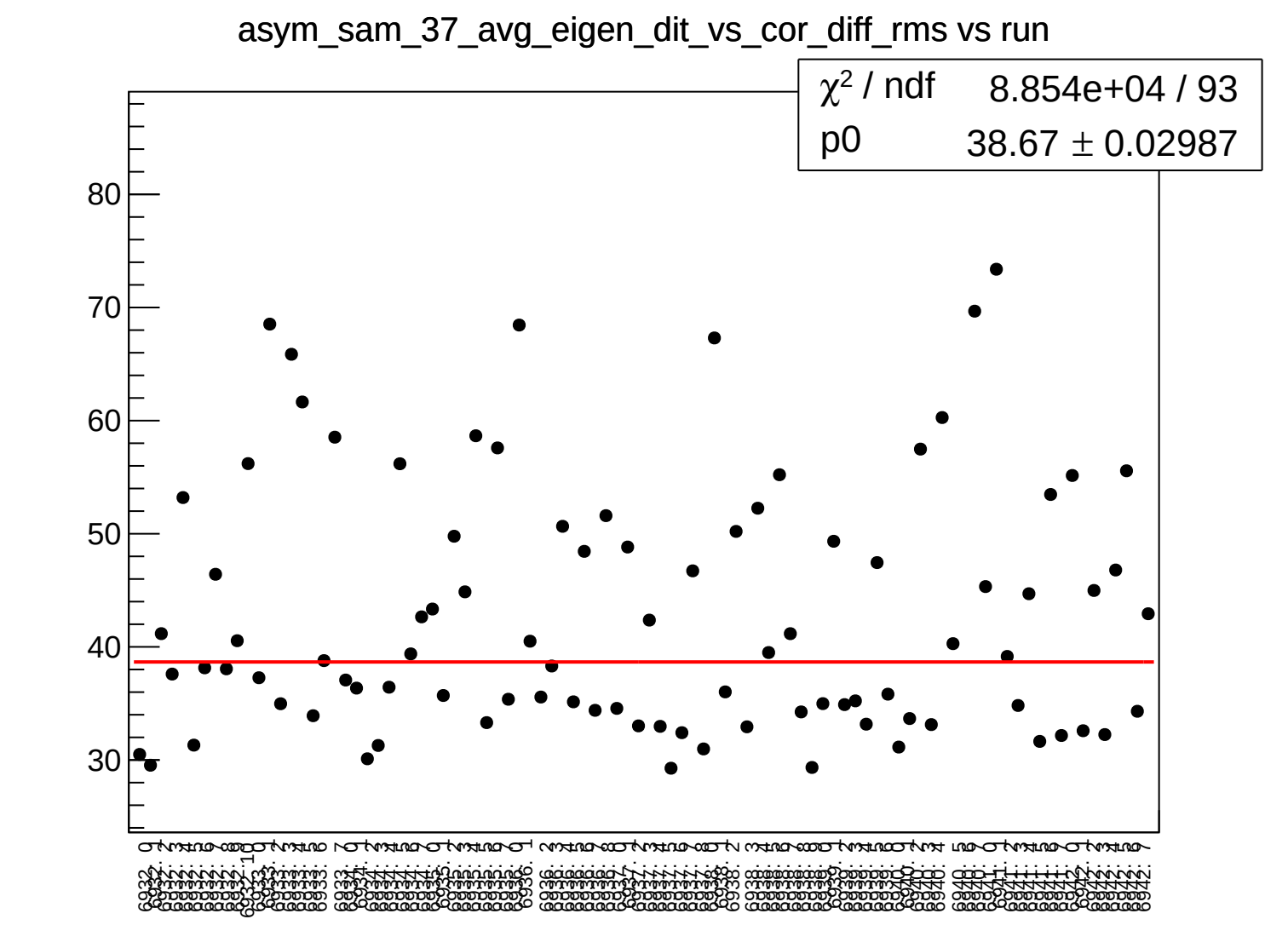

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.855e+04 / 93
p0 38.66 ± 0.02987
80
70
60
50
40
30

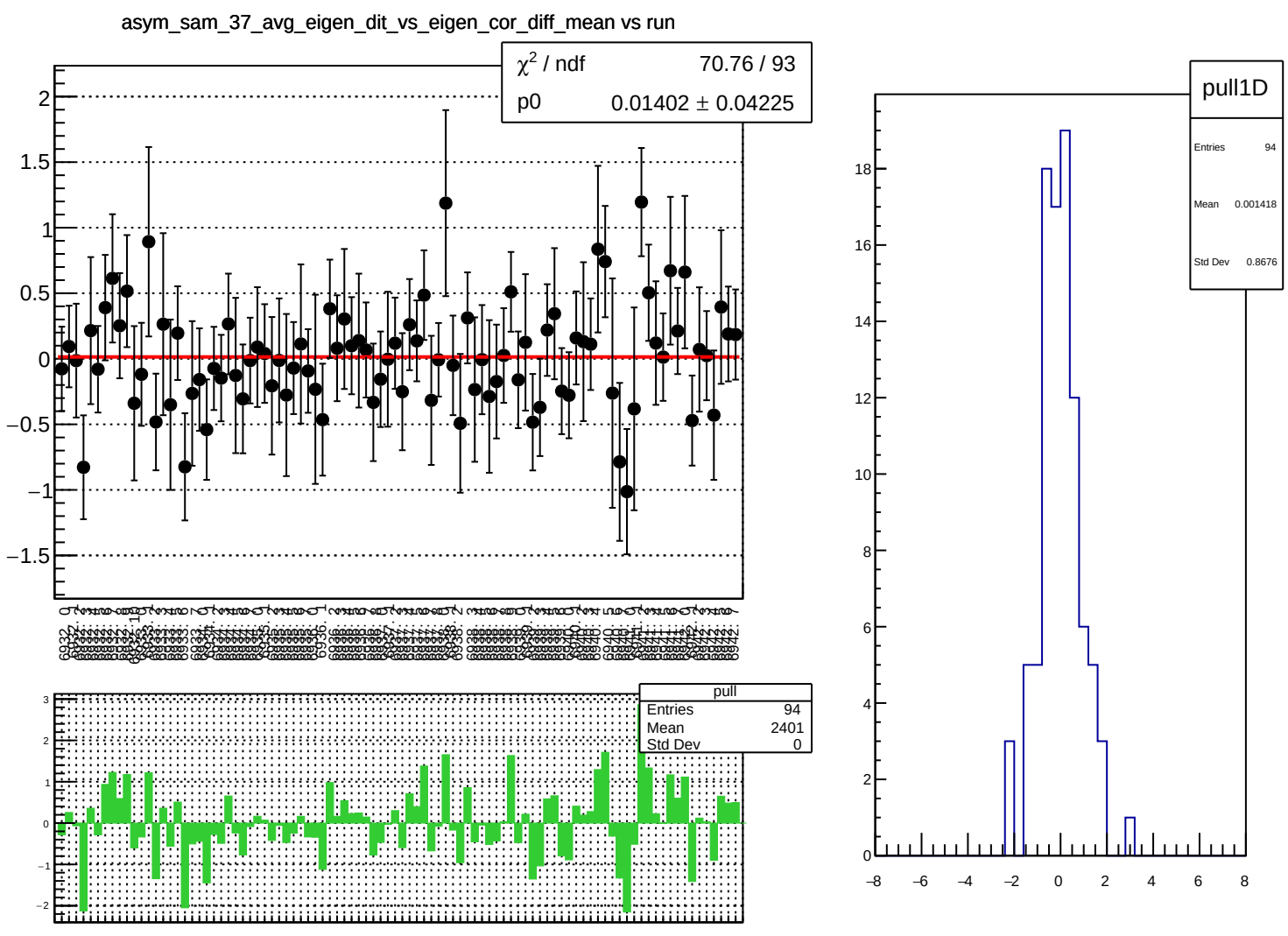

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.31 / 93
p0 −2.073e−06 ± 2.838e−06
pull
Entries 94
Mean 434.3
Std Dev 0

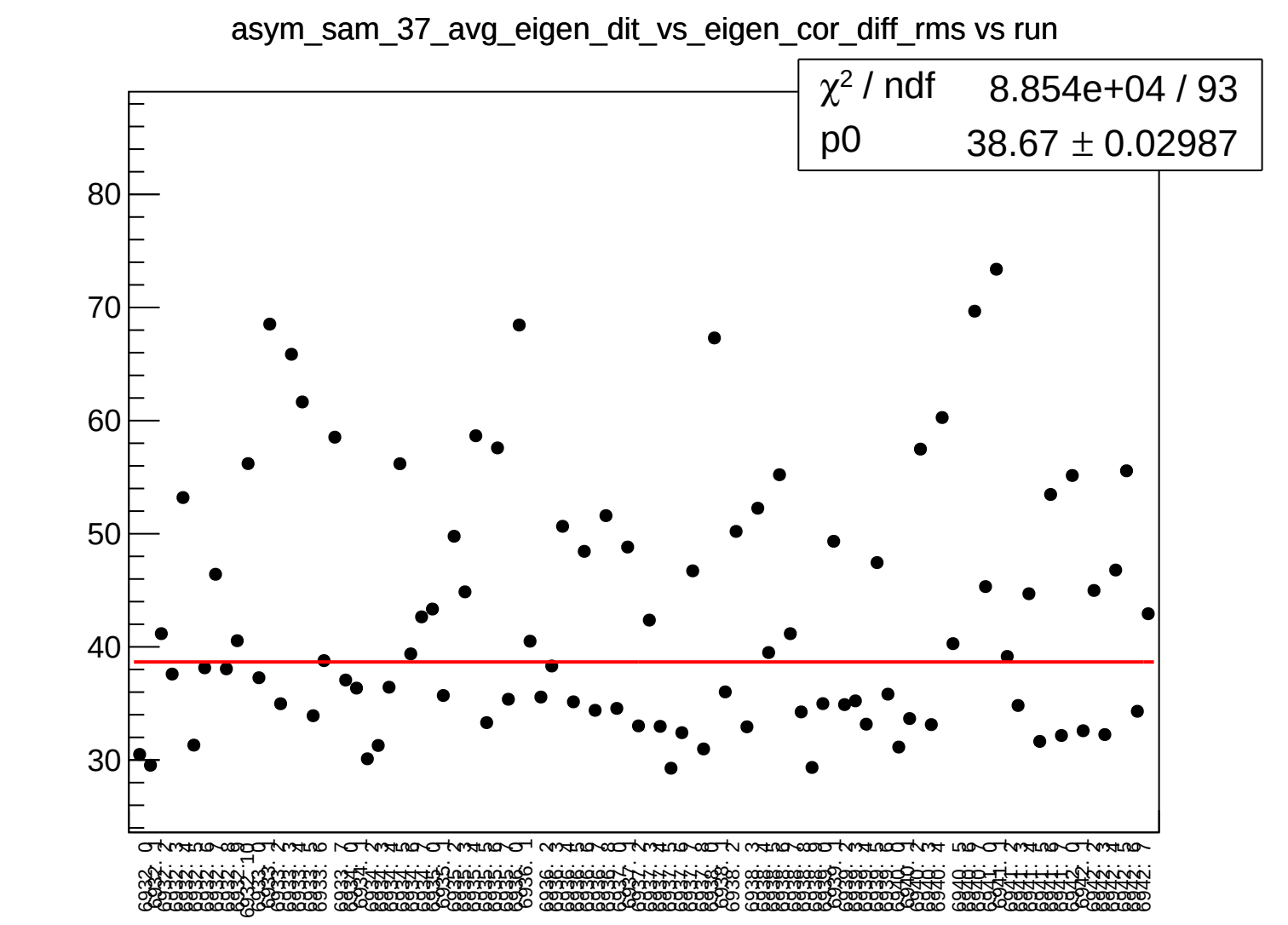

pull1D
Entries 94
Mean 0.005605
Std Dev 1.012

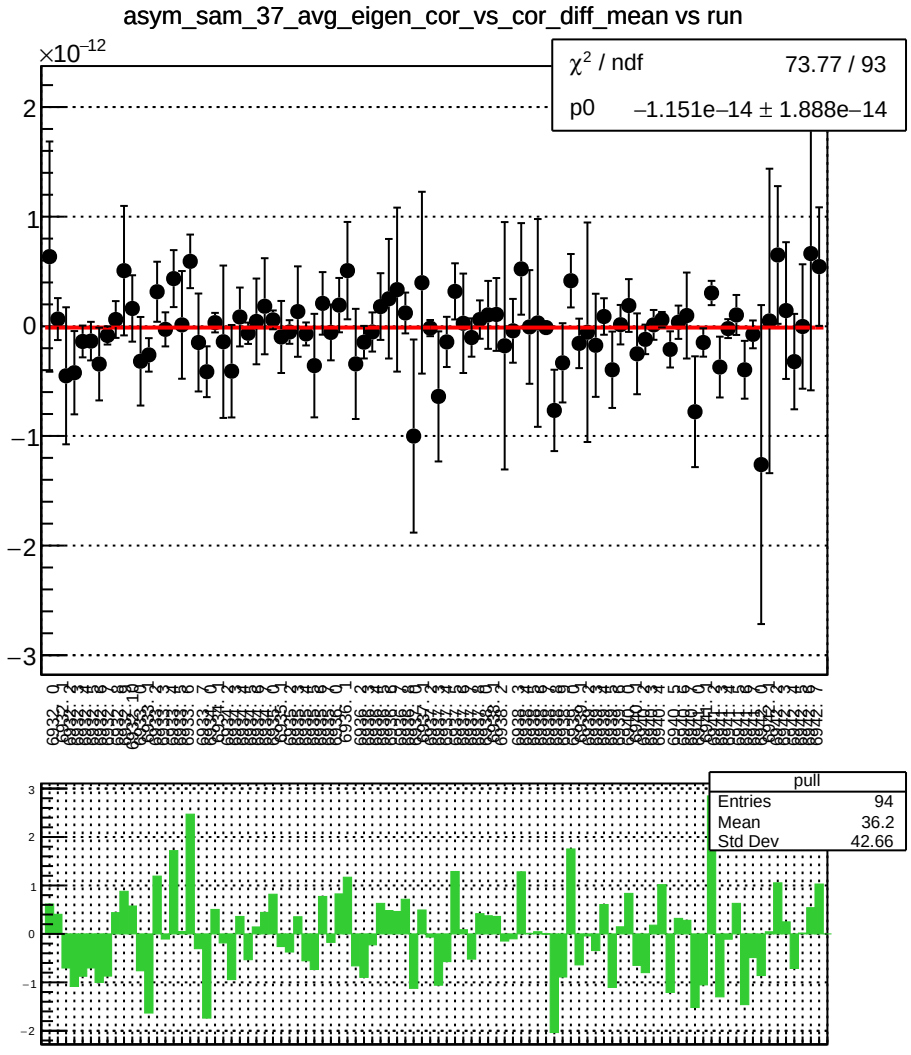

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5402 / 93
p0 0.002661 ± 2.007e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

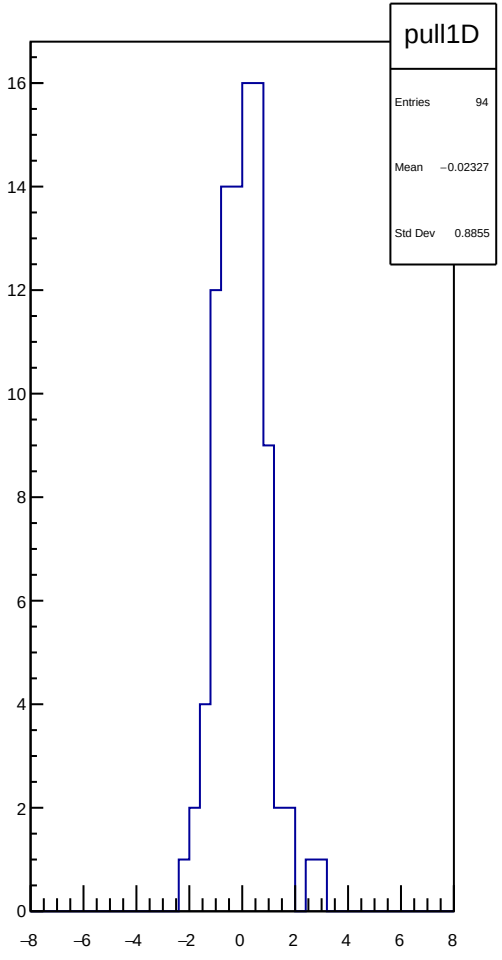

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.76 / 93
p0 0.01402 ± 0.04225
pull
Entries 94
Mean 2401
Std Dev 0
pull1D
Entries 94
Mean 0.001418
Std Dev 0.8676

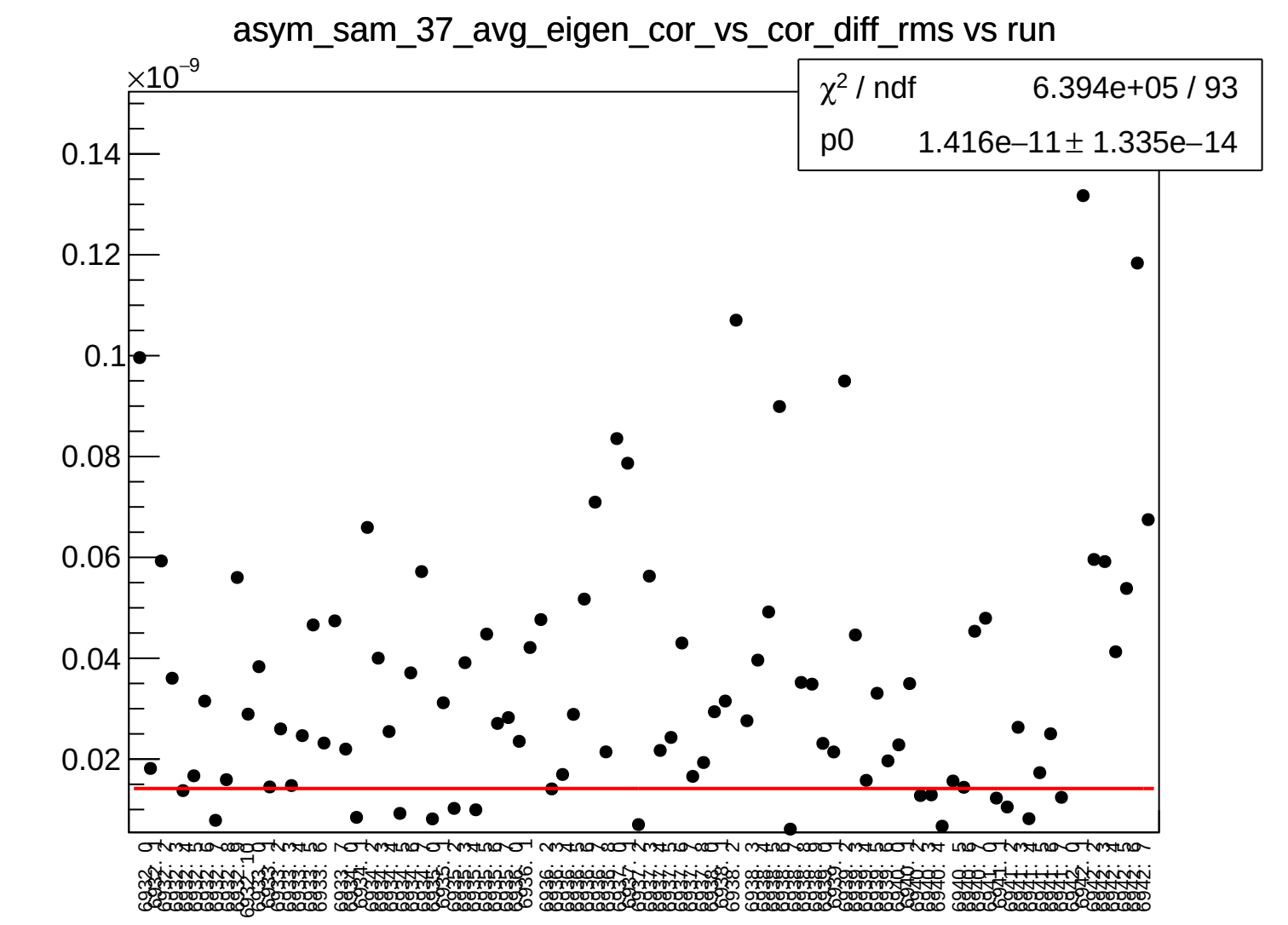

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.854e+04 / 93
p0 38.67 ± 0.02987
80
70
60
50
40
30

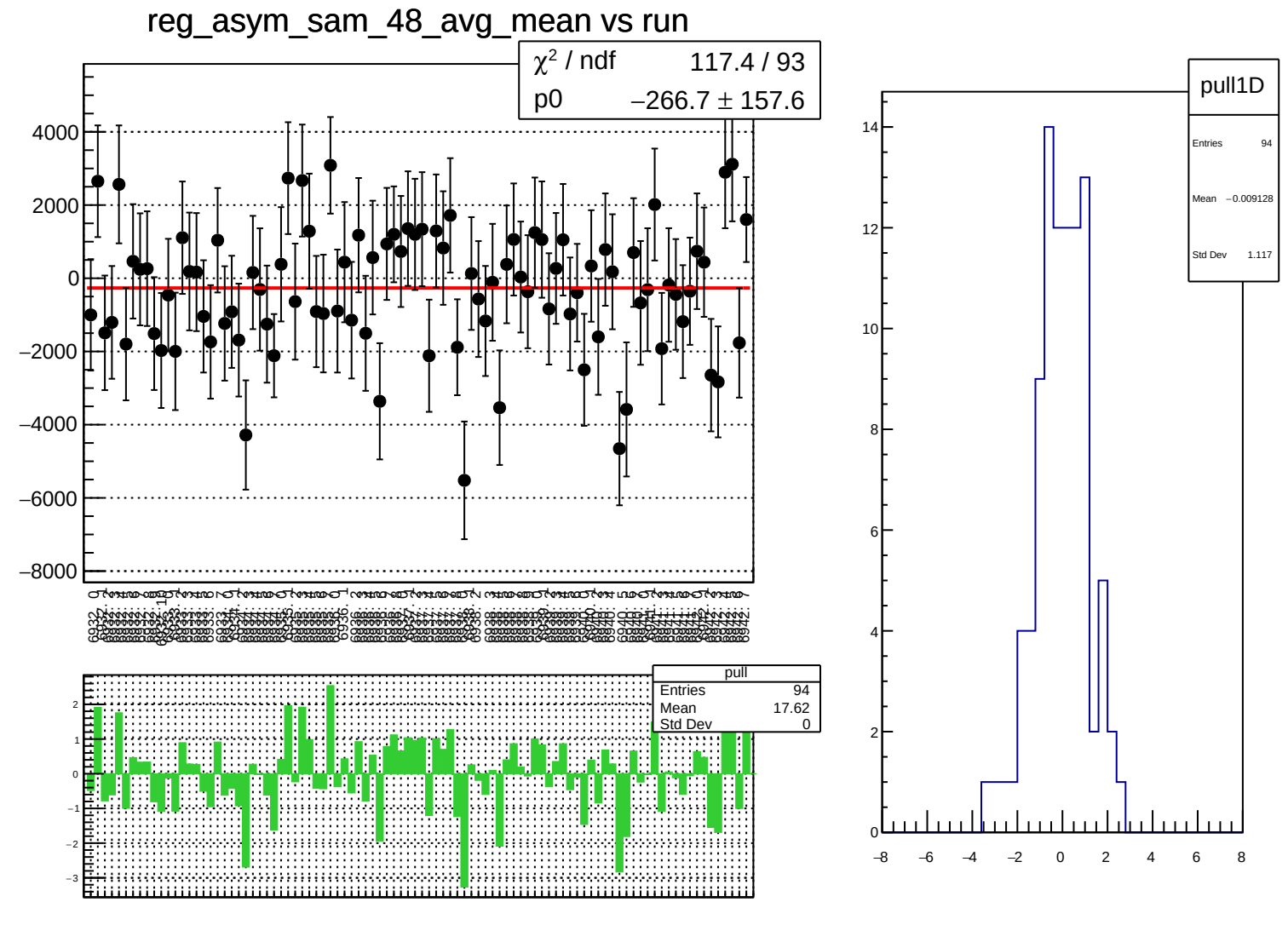

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.76 / 93
p0 0.01402 ± 0.04225
pull
Entries 94
Mean 2401
Std Dev 0
pull1D
Entries 94
Mean 0.001418
Std Dev 0.8676

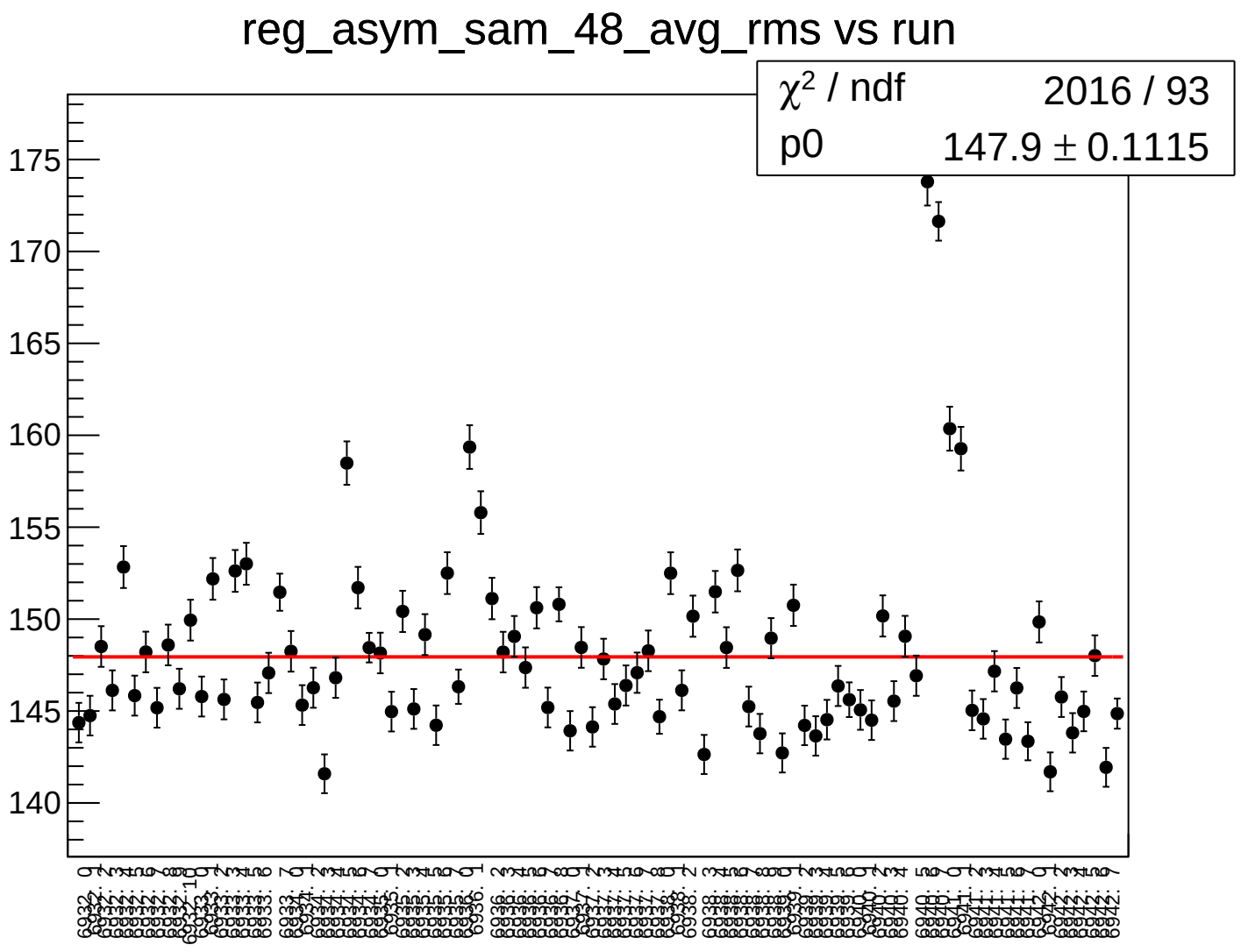

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.854e+04 / 93
p0 38.67 ± 0.02987
80
70
60
50
40
30

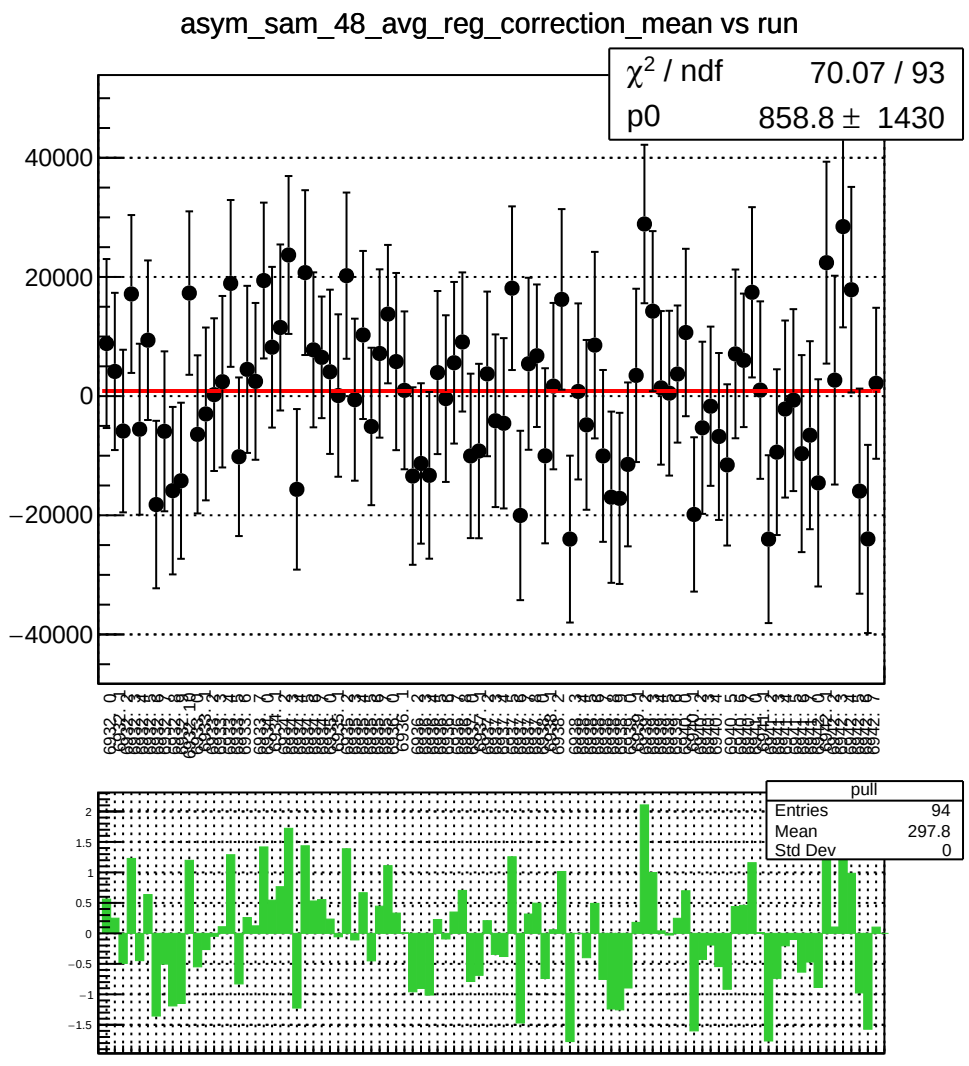

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.77 / 93
p0 −1.151e−14 ± 1.888e−14
pull
Entries 94
Mean 36.2
Std Dev 42.66

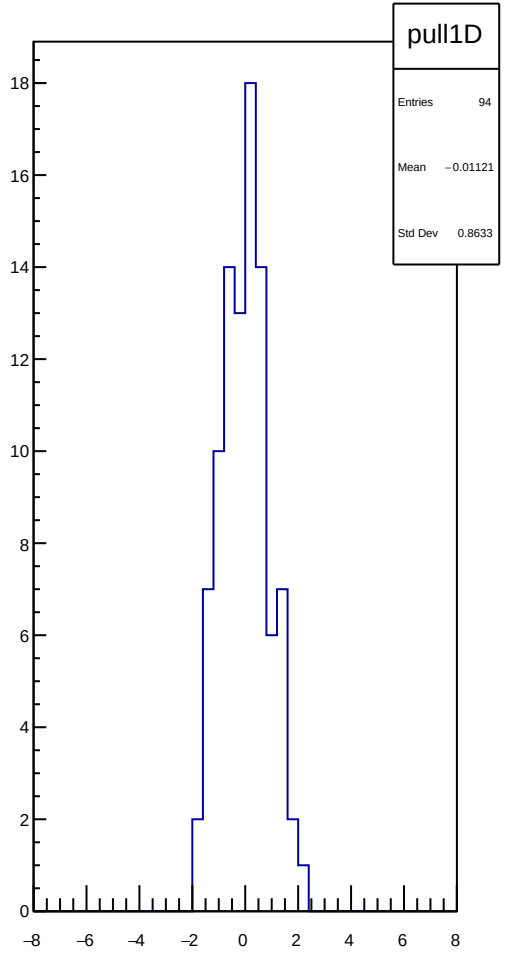

pull1D
Entries 94
Mean −0.02327
Std Dev 0.8855

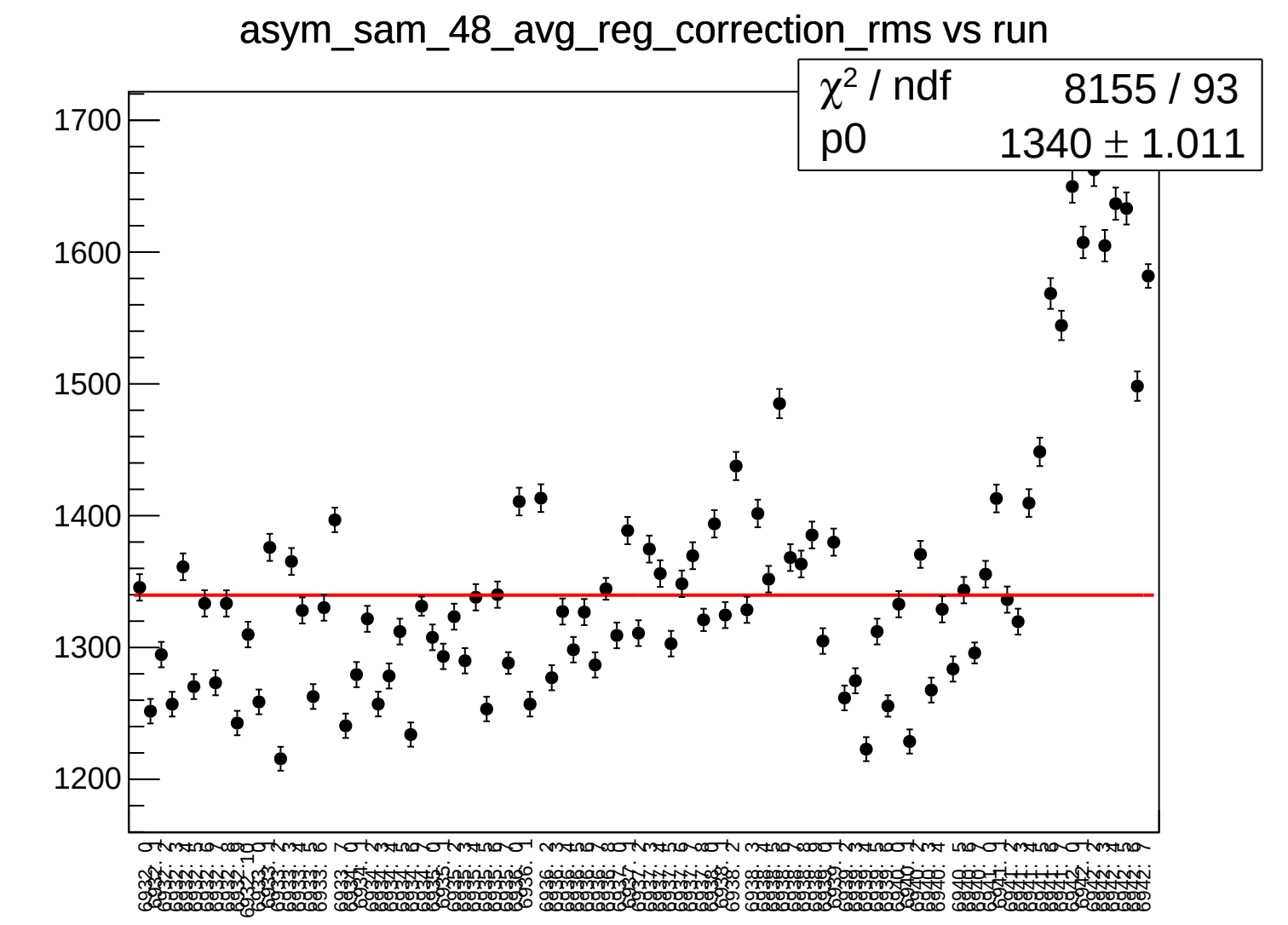

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.394e+05 / 93
p0 1.416e−11 ± 1.335e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

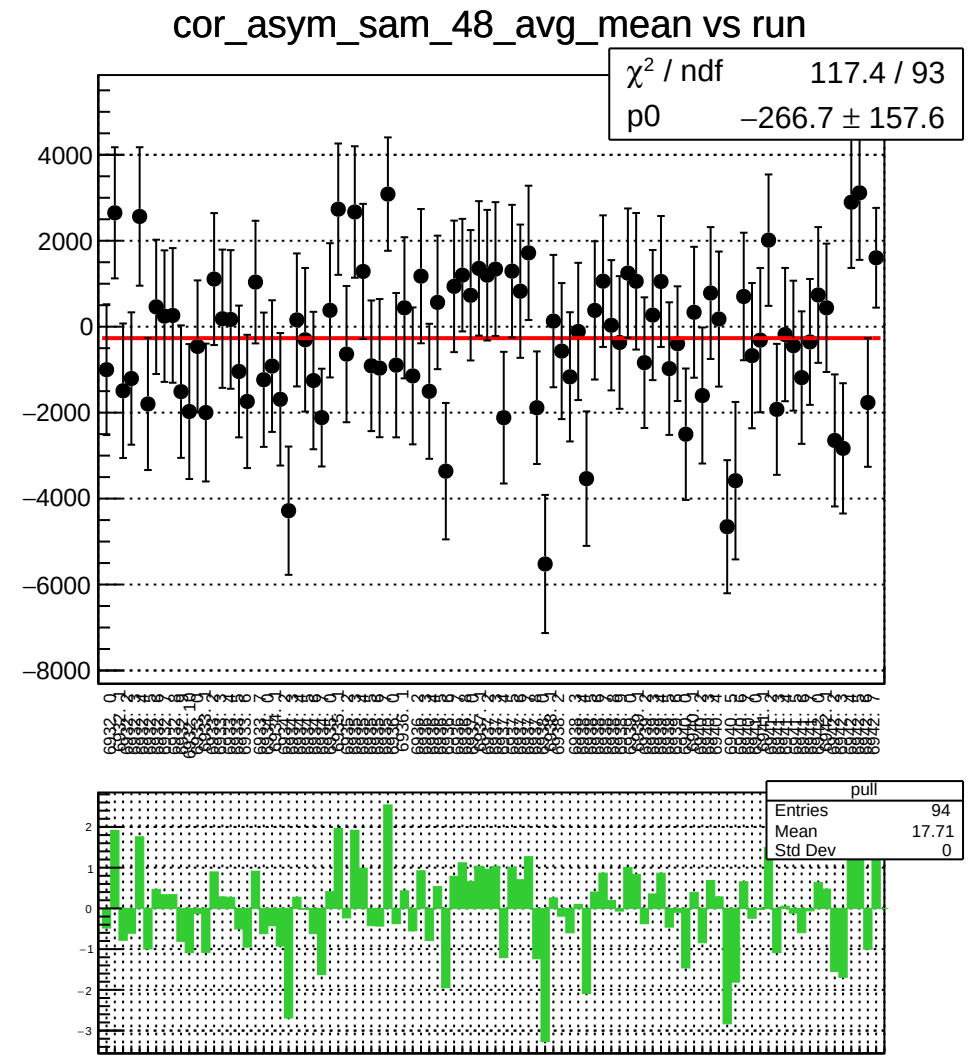

reg_asym_sam_48_avg_mean vs run
χ² / ndf 117.4 / 93
p0 −266.7 ± 157.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean 17.62
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.009128
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

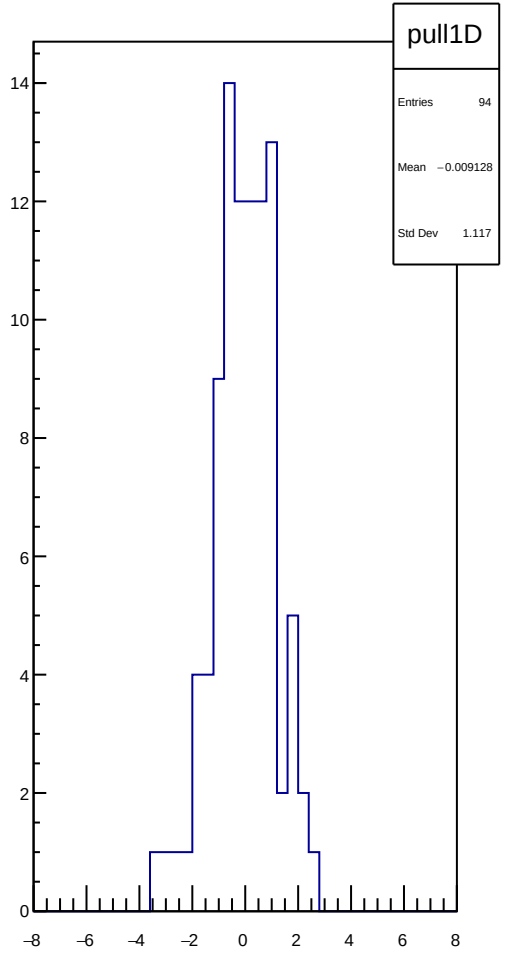

reg_asym_sam_48_avg_rms vs run
χ² / ndf 2016 / 93
p0 147.9 ± 0.1115
175
170
165
160
155
150
145
140

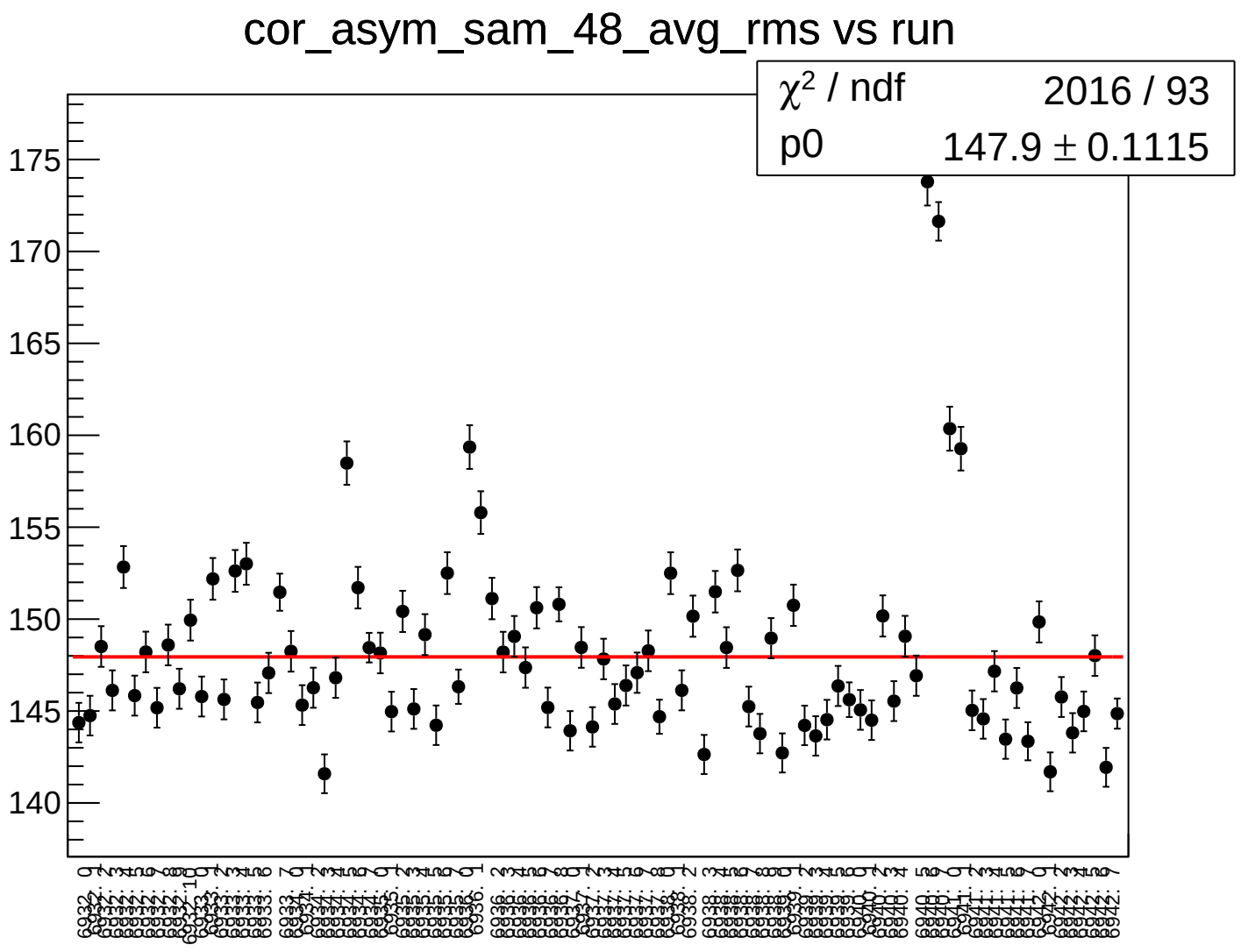

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 70.07 / 93
p0 858.8 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

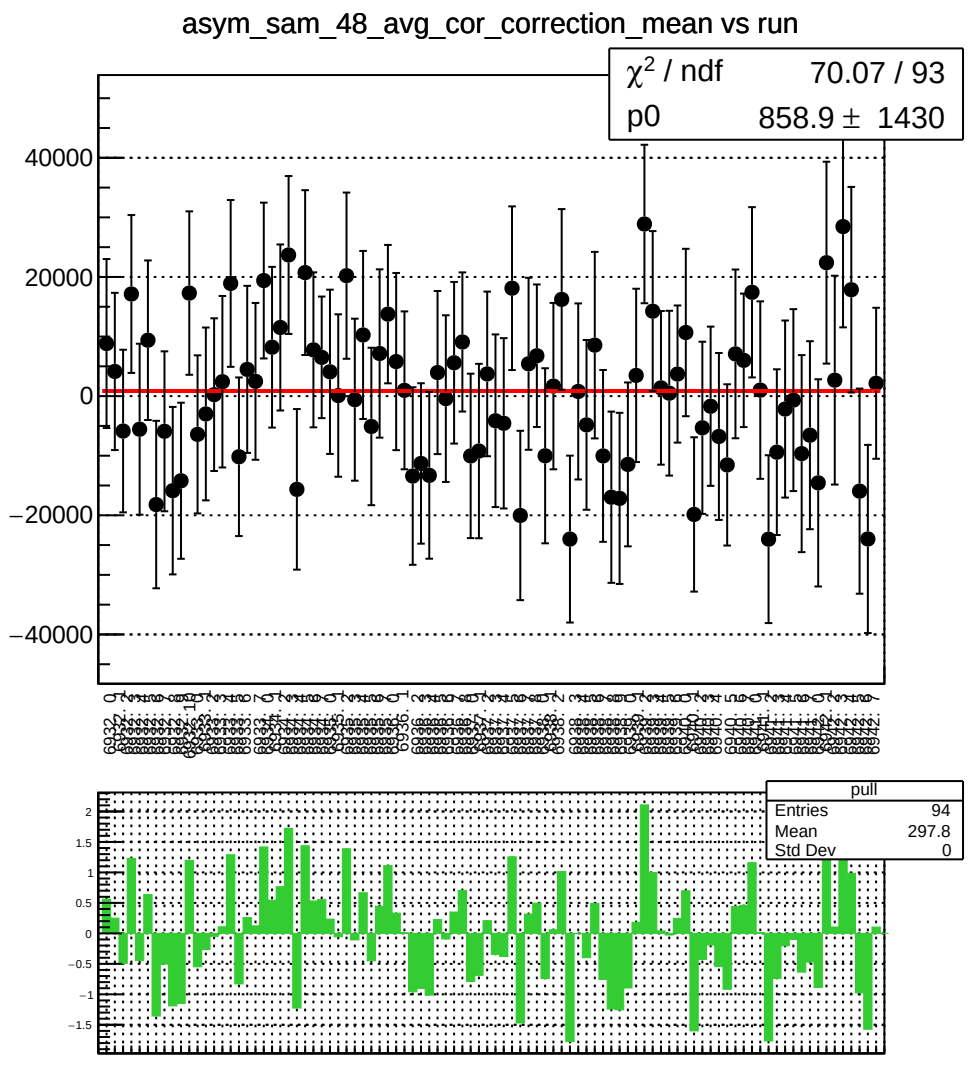

pull1D
Entries 94
Mean −0.01121
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

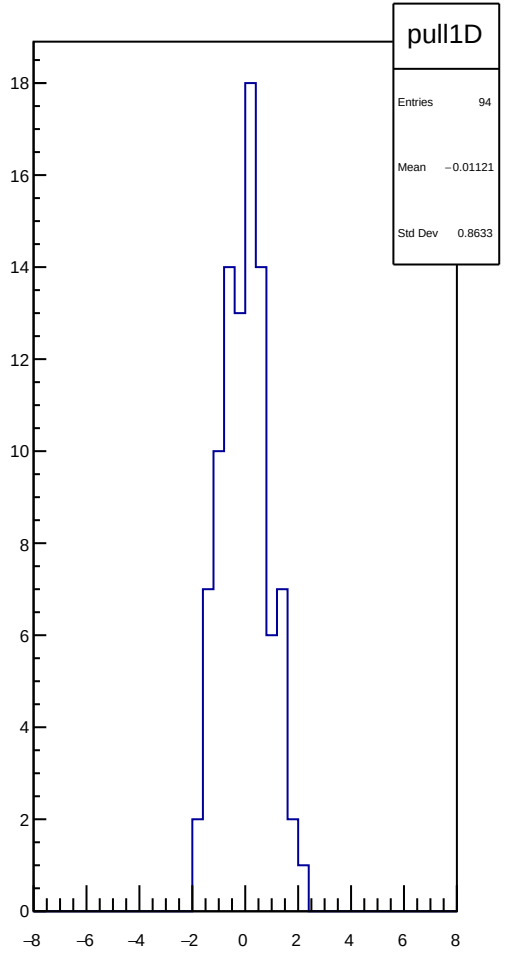

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 8155 / 93
p0 1340 ± 1.011
1700
1600
1500
1400
1300
1200

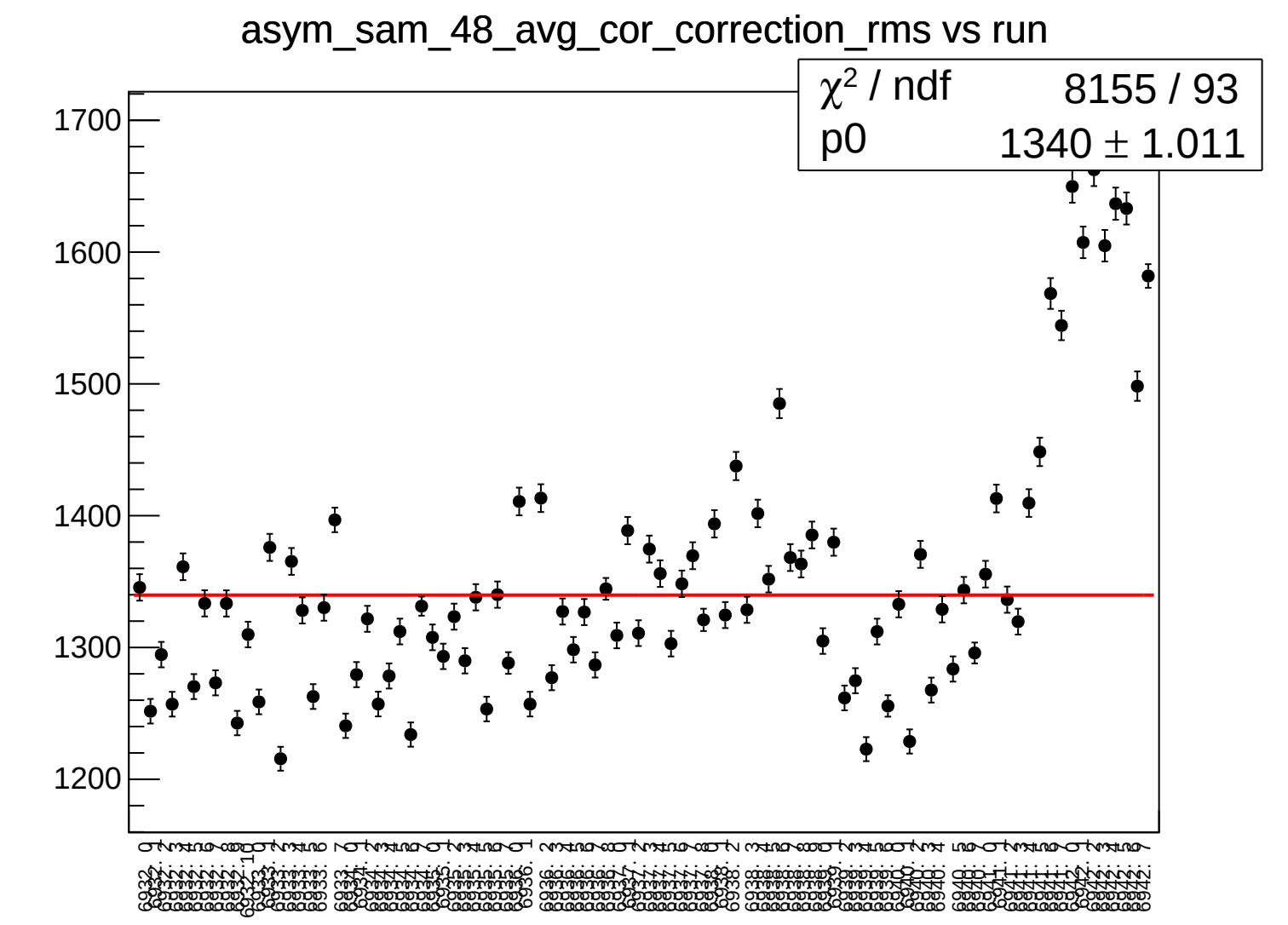

cor_asym_sam_48_avg_mean vs run
χ² / ndf 117.4 / 93
p0 −266.7 ± 157.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean 17.71
Std Dev 0
2
1
0
−1
−2
−3

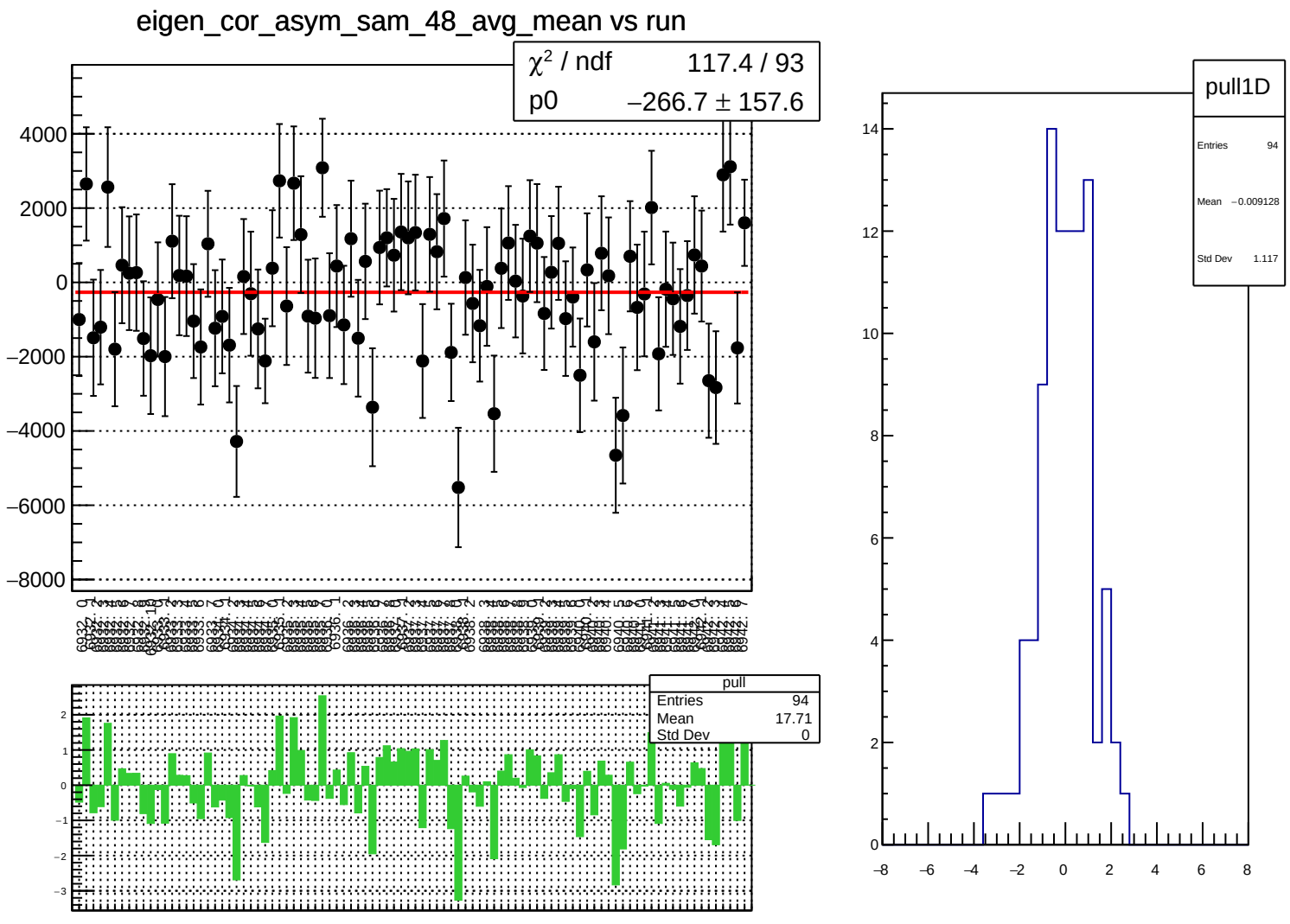

pull1D
Entries 94
Mean −0.009128
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

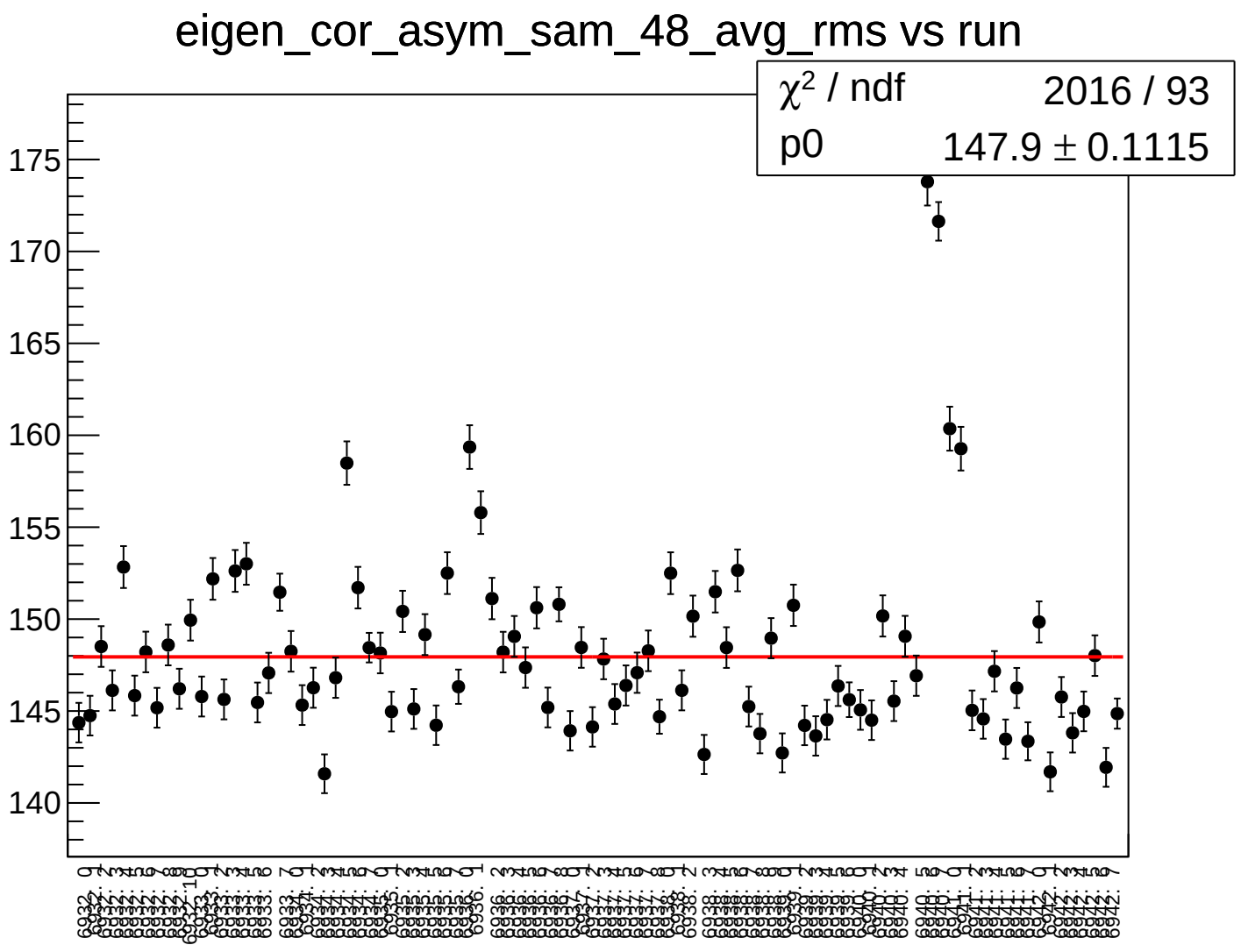

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2016 / 93
p0 147.9 ± 0.1115
175
170
165
160
155
150
145
140

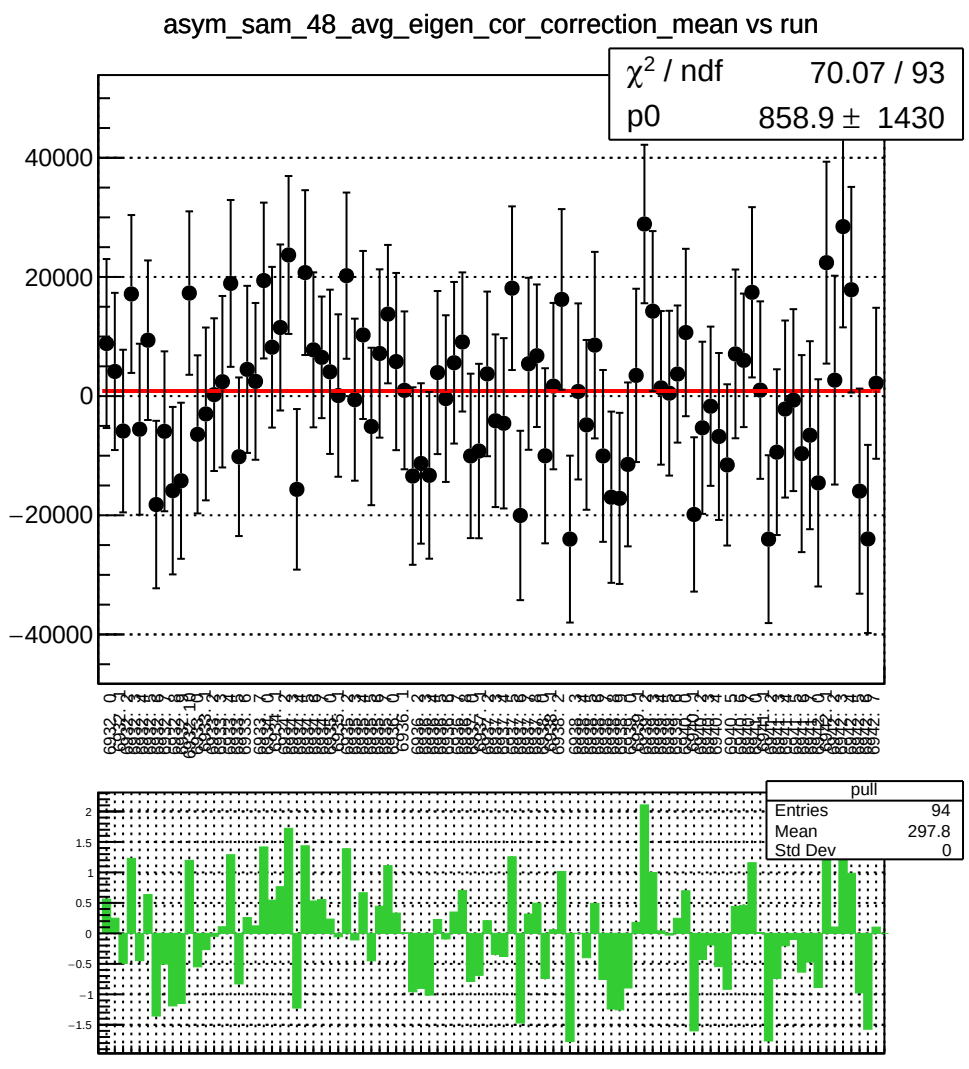

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 70.07 / 93
p0 858.9 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

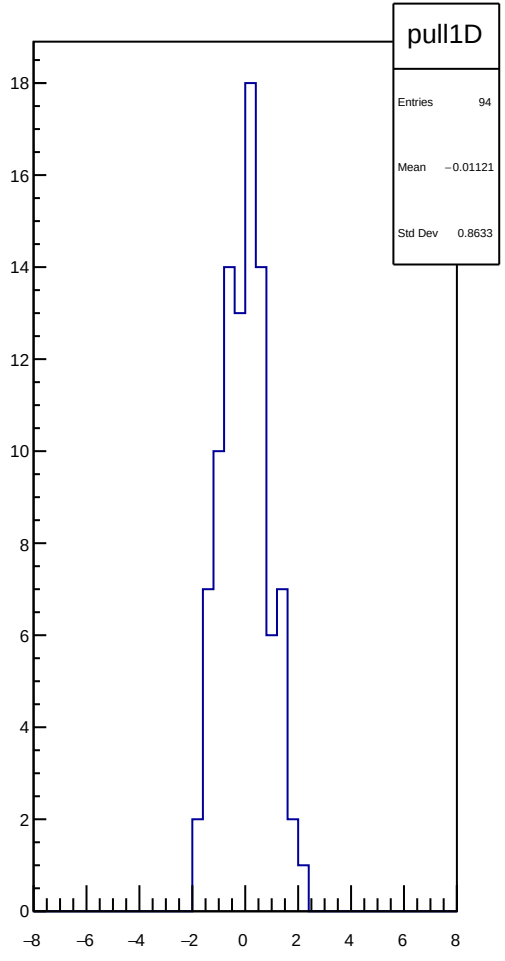

pull1D
Entries 94
Mean −0.01121
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

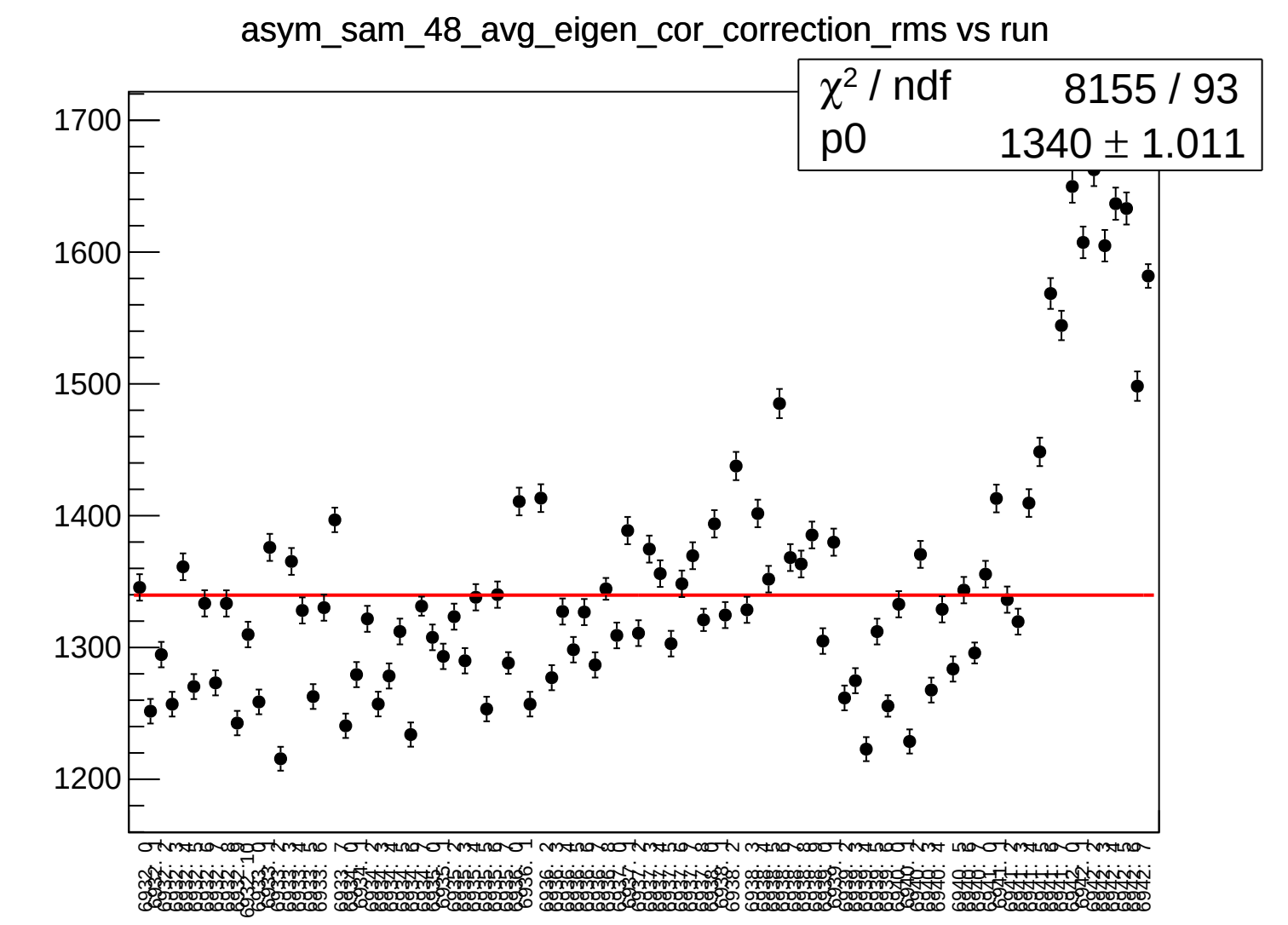

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 8155 / 93
p0 1340 ± 1.011
1700
1600
1500
1400
1300
1200

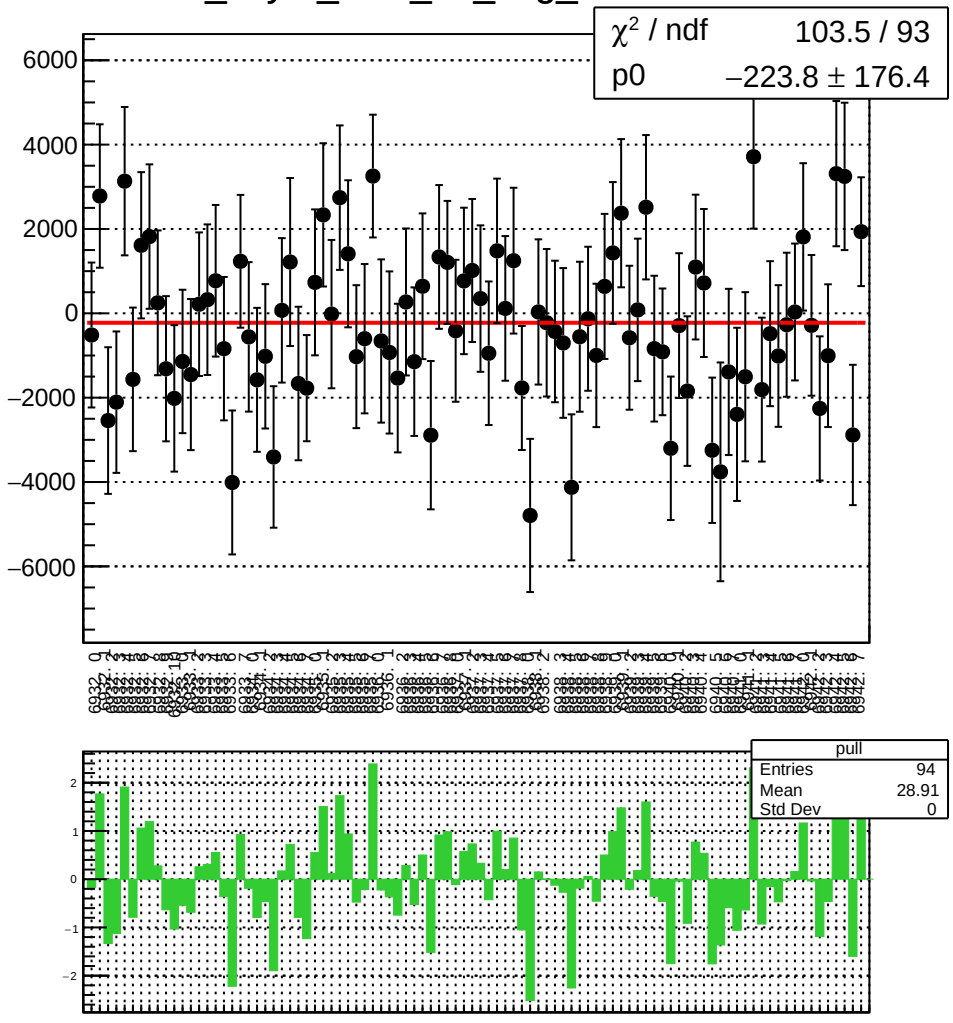

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 117.4 / 93
p0 −266.7 ± 157.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean 17.71
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.009128
Std Dev 1.117
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

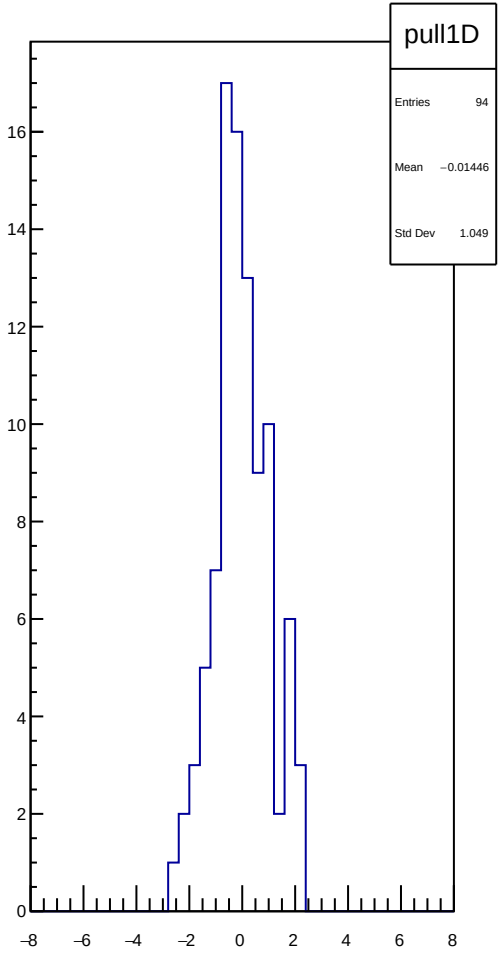

eigen_cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 2016 / 93
p0 147.9 ± 0.1115
175
170
165
160
155
150
145
140

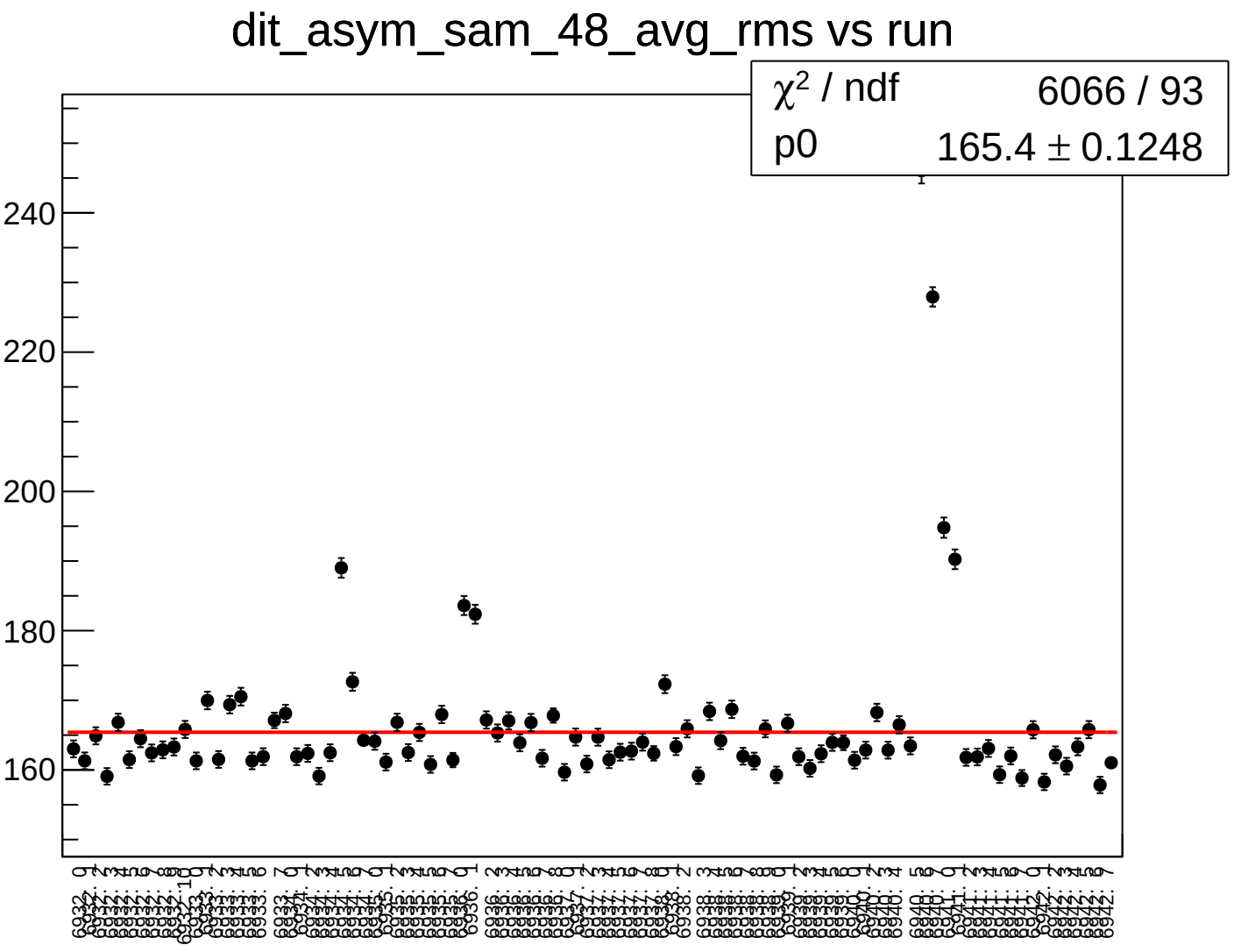

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.07 / 93
p0 858.9 ± 1430
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 297.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

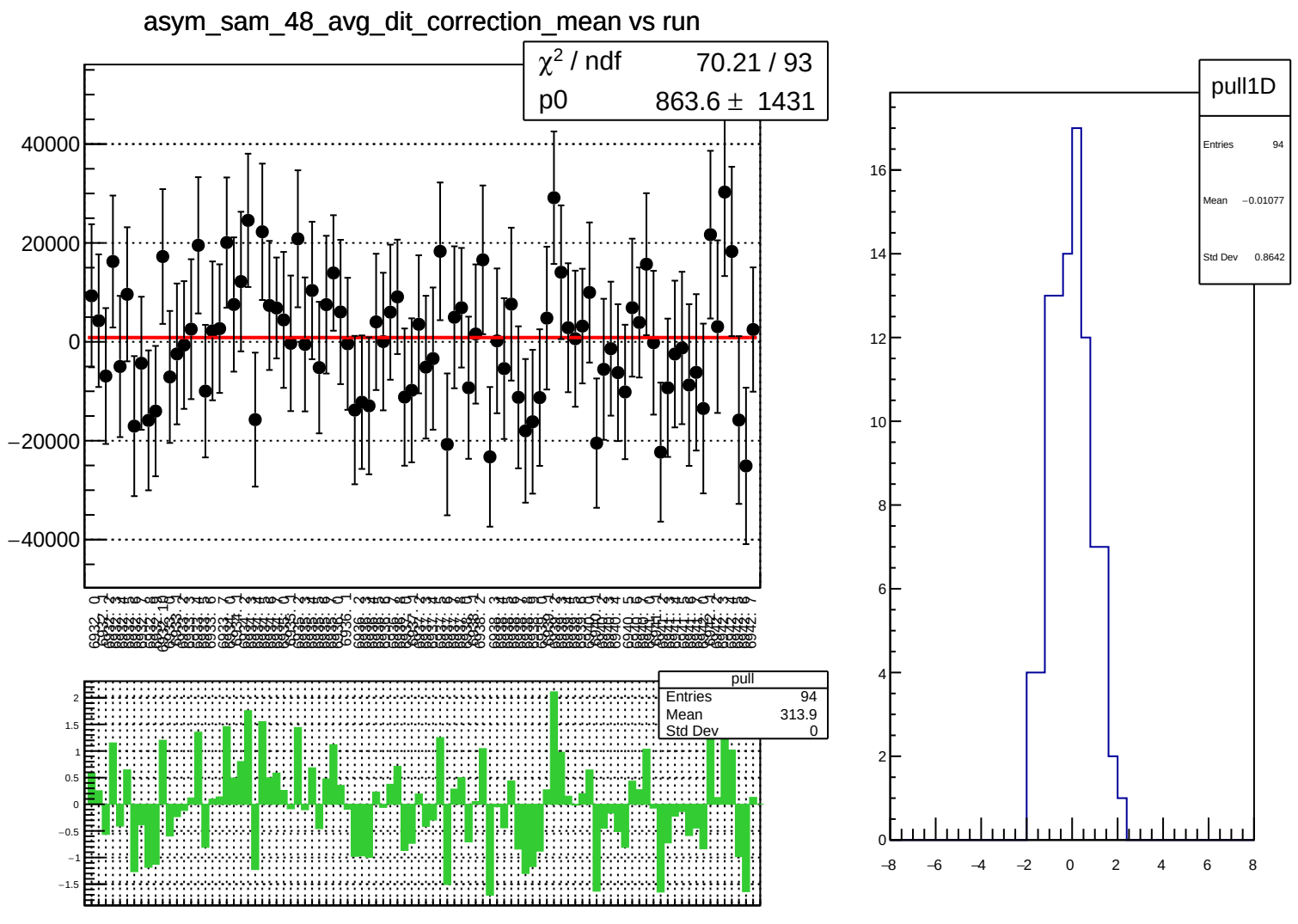

pull1D
Entries 94
Mean −0.01121
Std Dev 0.8633
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

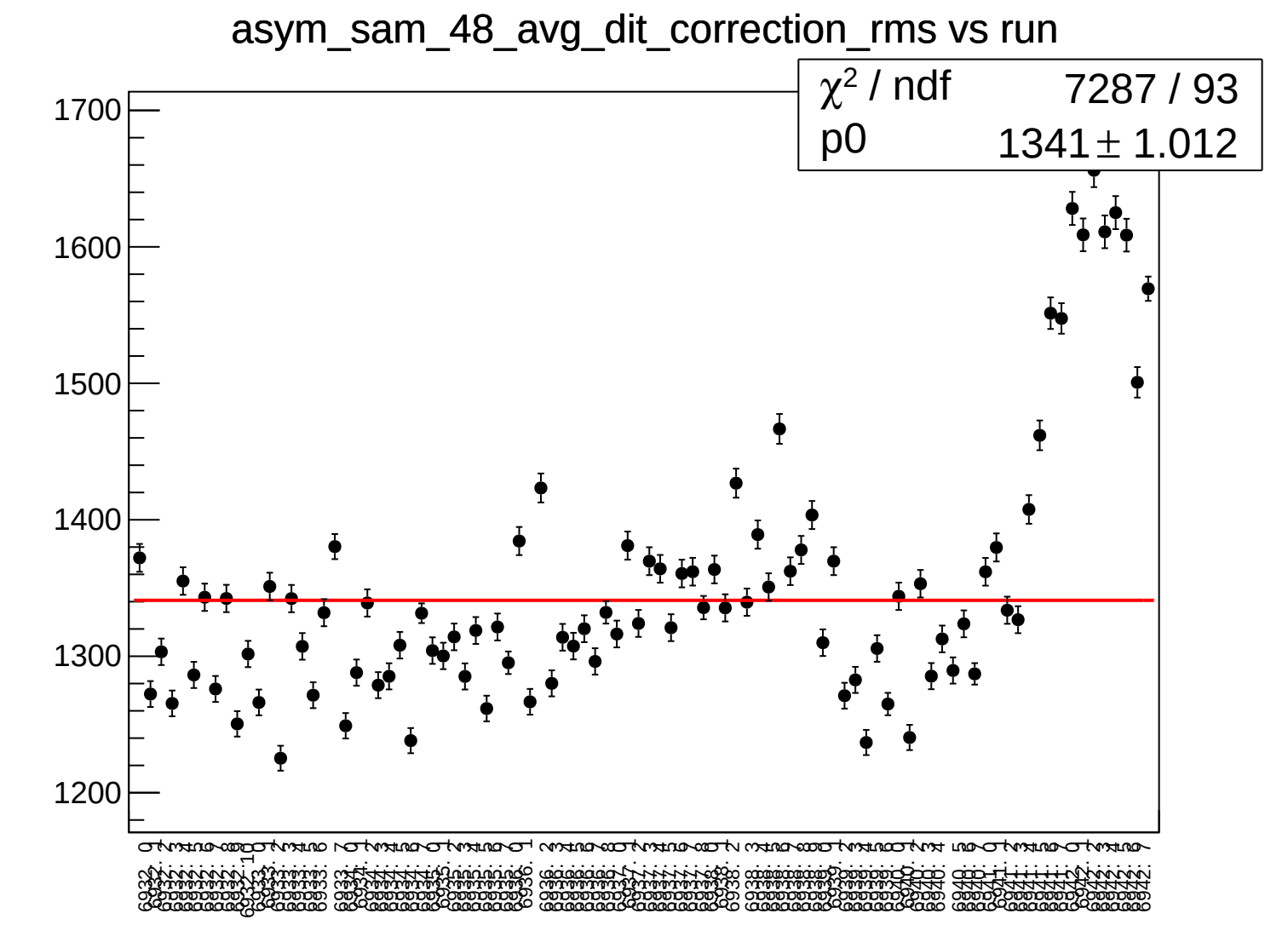

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 8155 / 93
p0 1340 ± 1.011
1700
1600
1500
1400
1300
1200

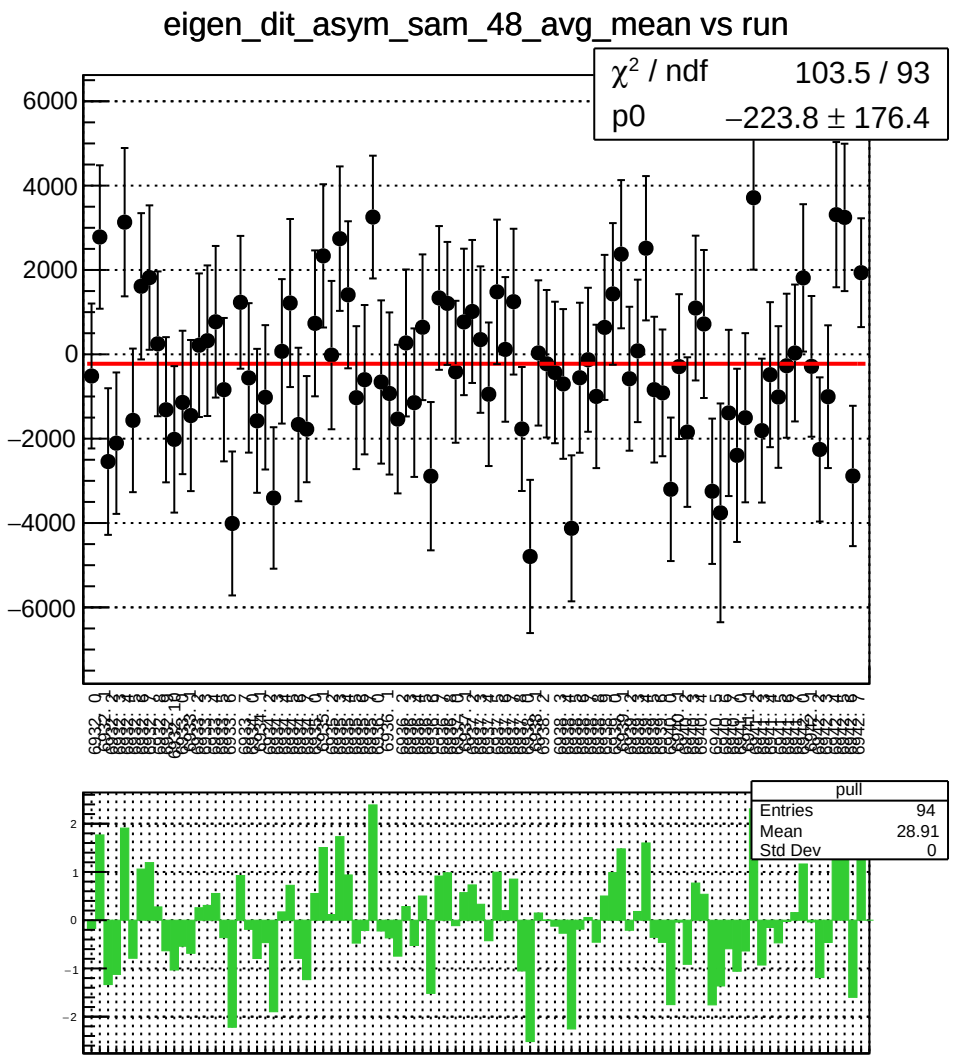

dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.5 / 93
p0 −223.8 ± 176.4
pull
Entries 94
Mean 28.91
Std Dev 0

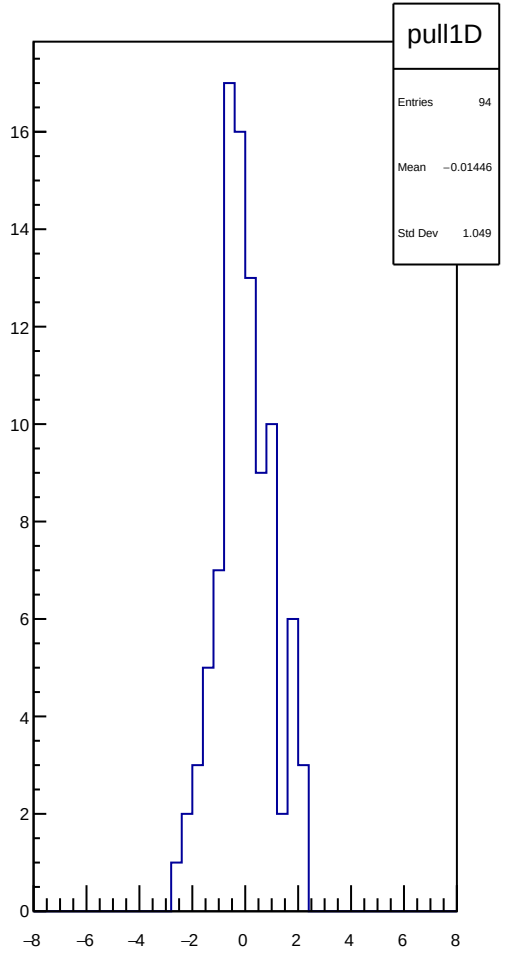

pull1D
Entries 94
Mean −0.01446
Std Dev 1.049

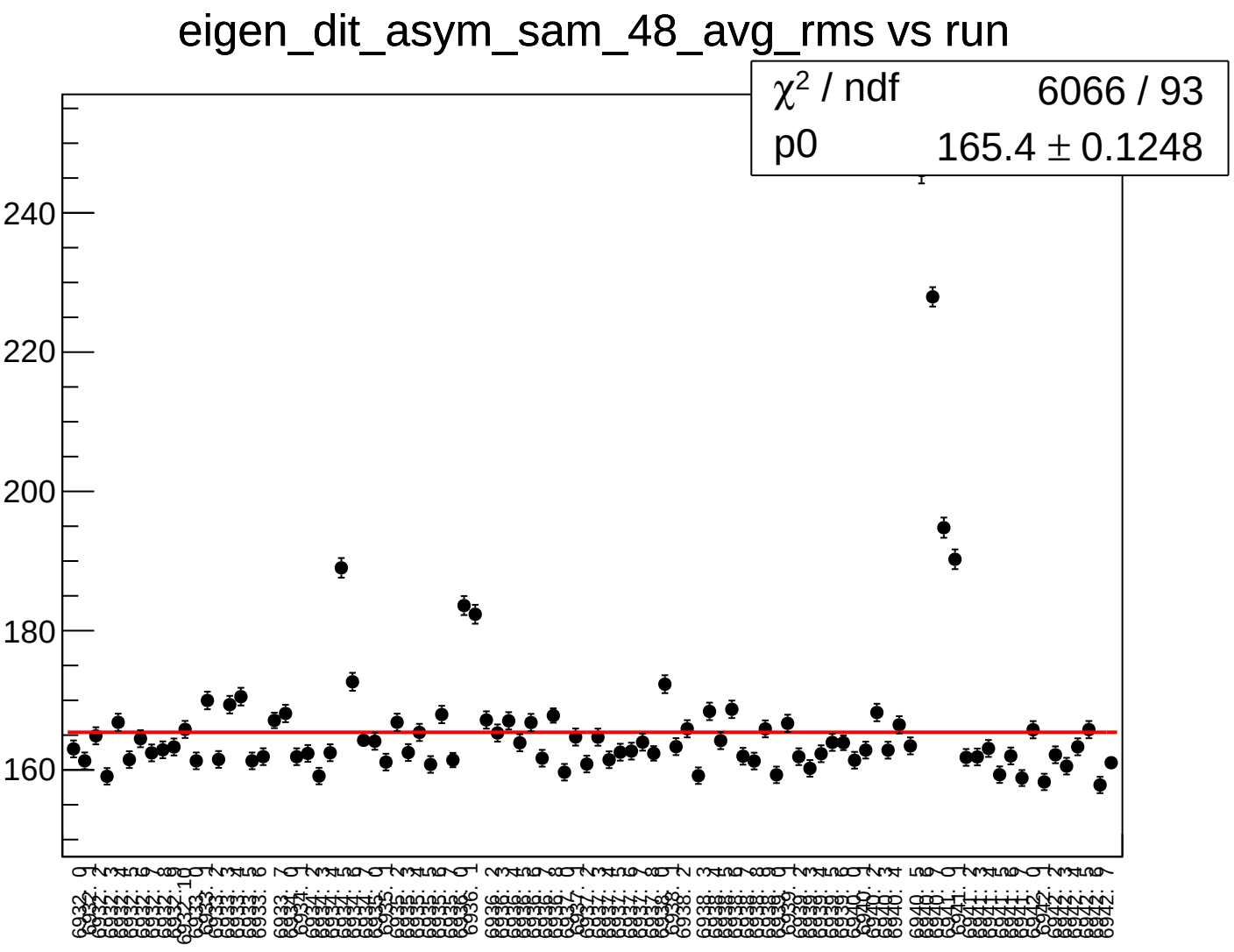

dit_asym_sam_48_avg_rms vs run
χ² / ndf 6066 / 93
p0 165.4 ± 0.1248
240
220
200
180
160

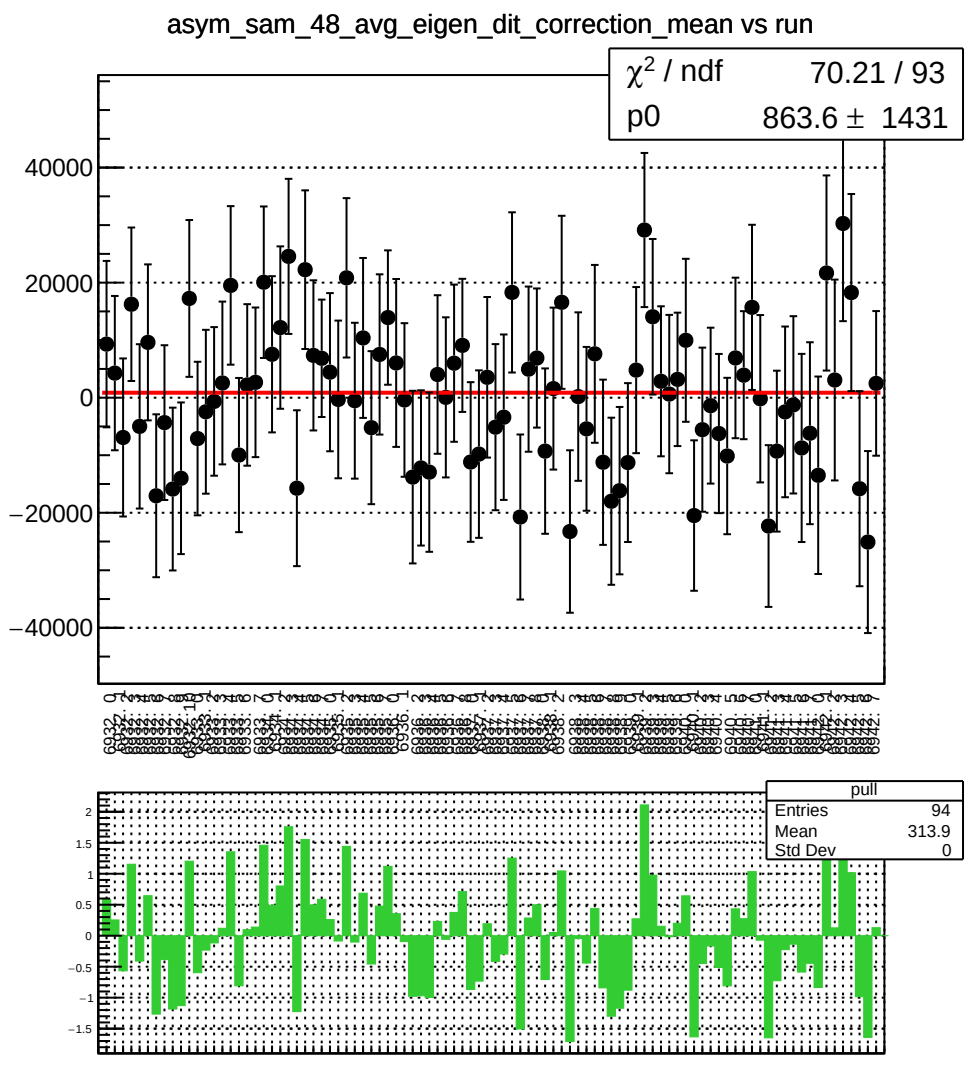

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 70.21 / 93
p0 863.6 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 313.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01077
Std Dev 0.8642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

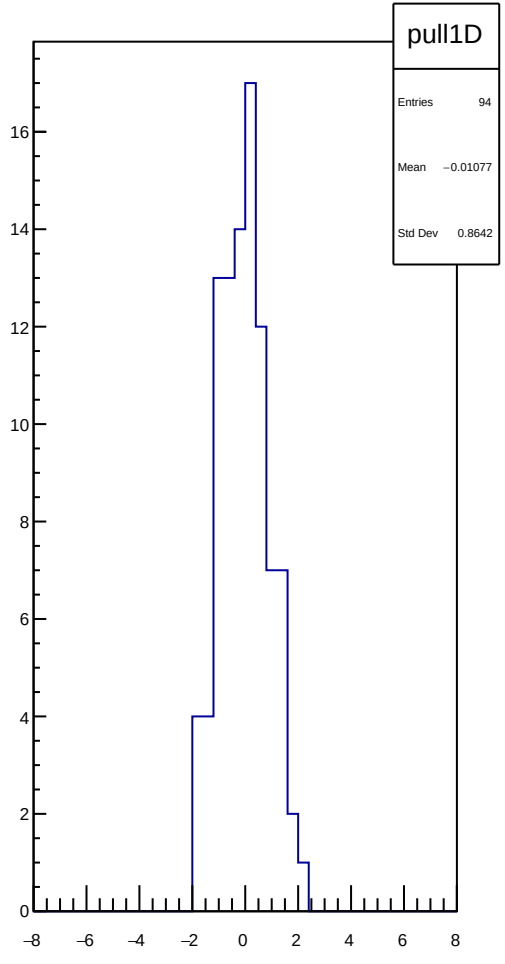

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 7287 / 93
p0 1341 ± 1.012
1700
1600
1500
1400
1300
1200

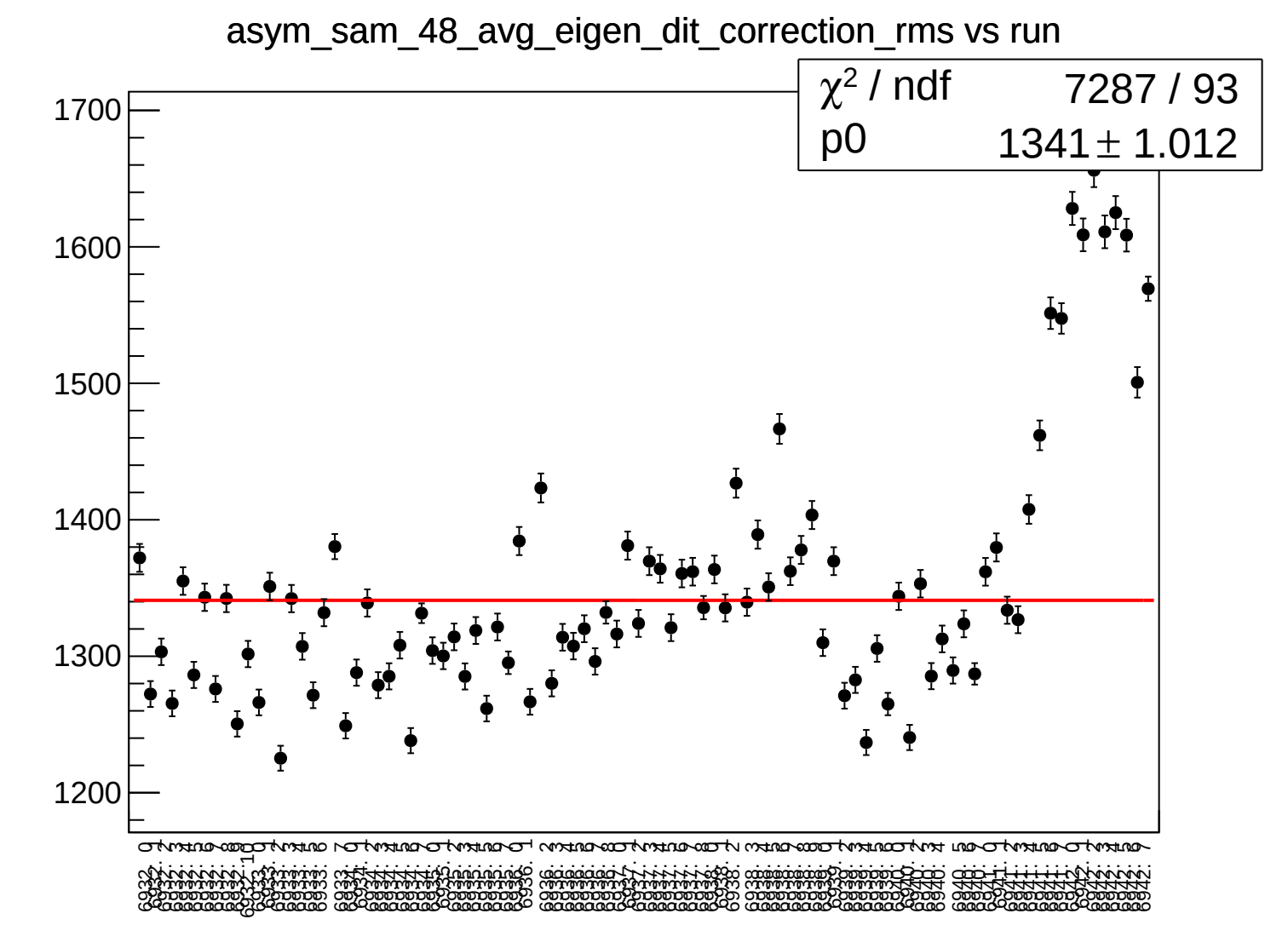

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 103.5 / 93
p0 −223.8 ± 176.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 28.91
Std Dev 0
2
1
0
−1
−2

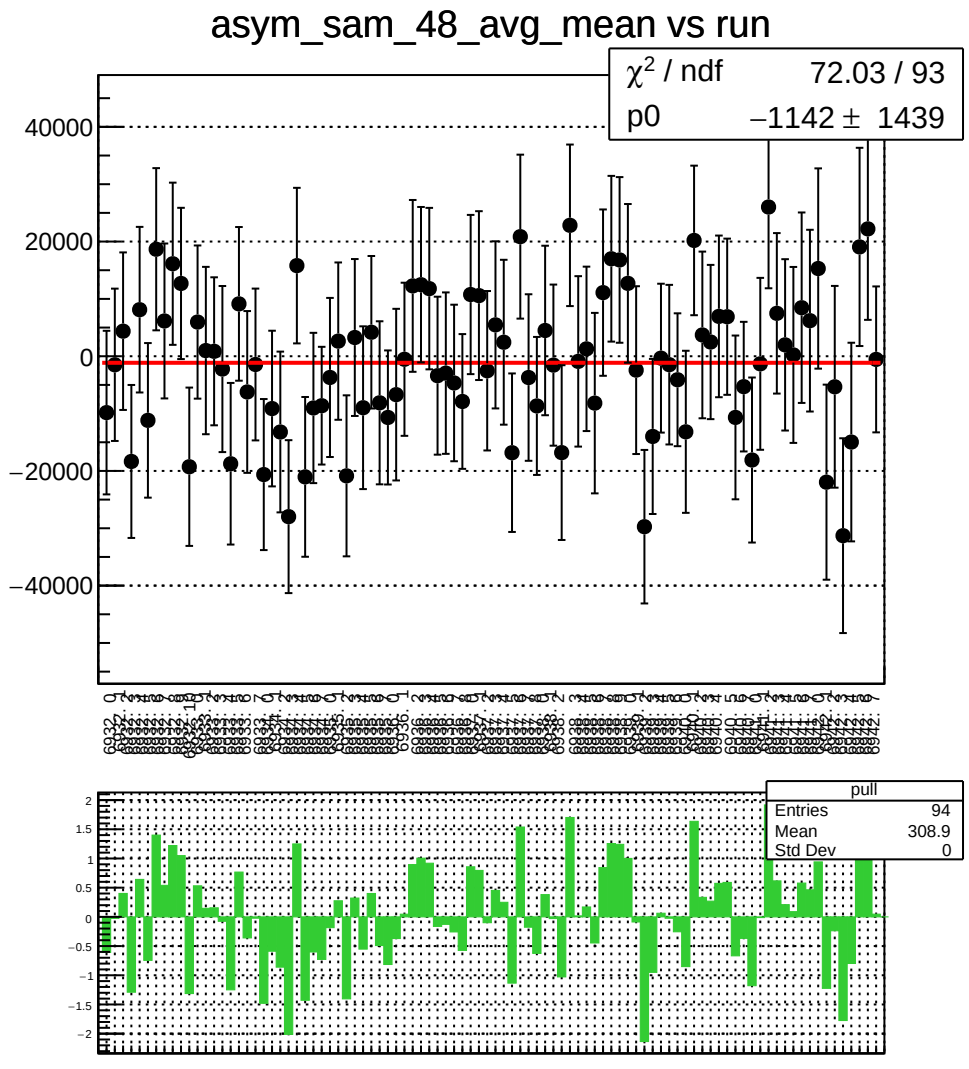

pull1D
Entries 94
Mean −0.01446
Std Dev 1.049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

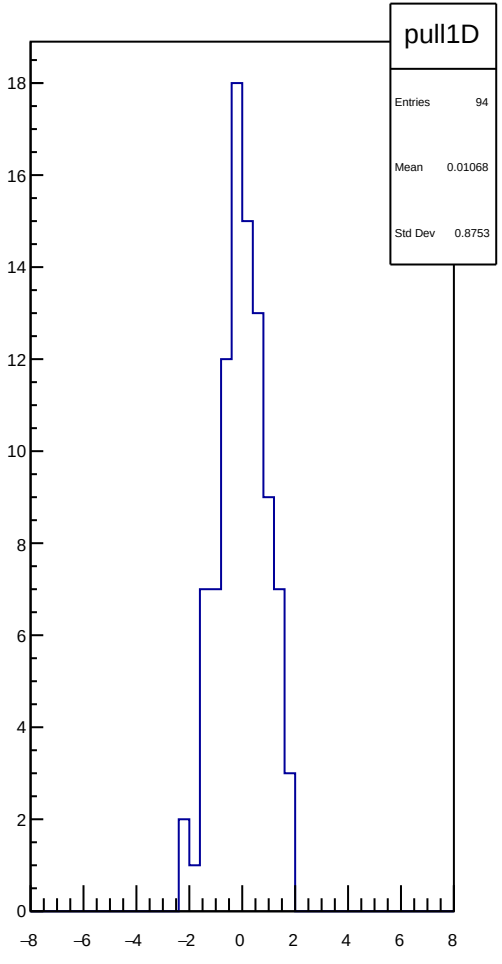

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 6066 / 93
p0 165.4 ± 0.1248
240
220
200
180
160

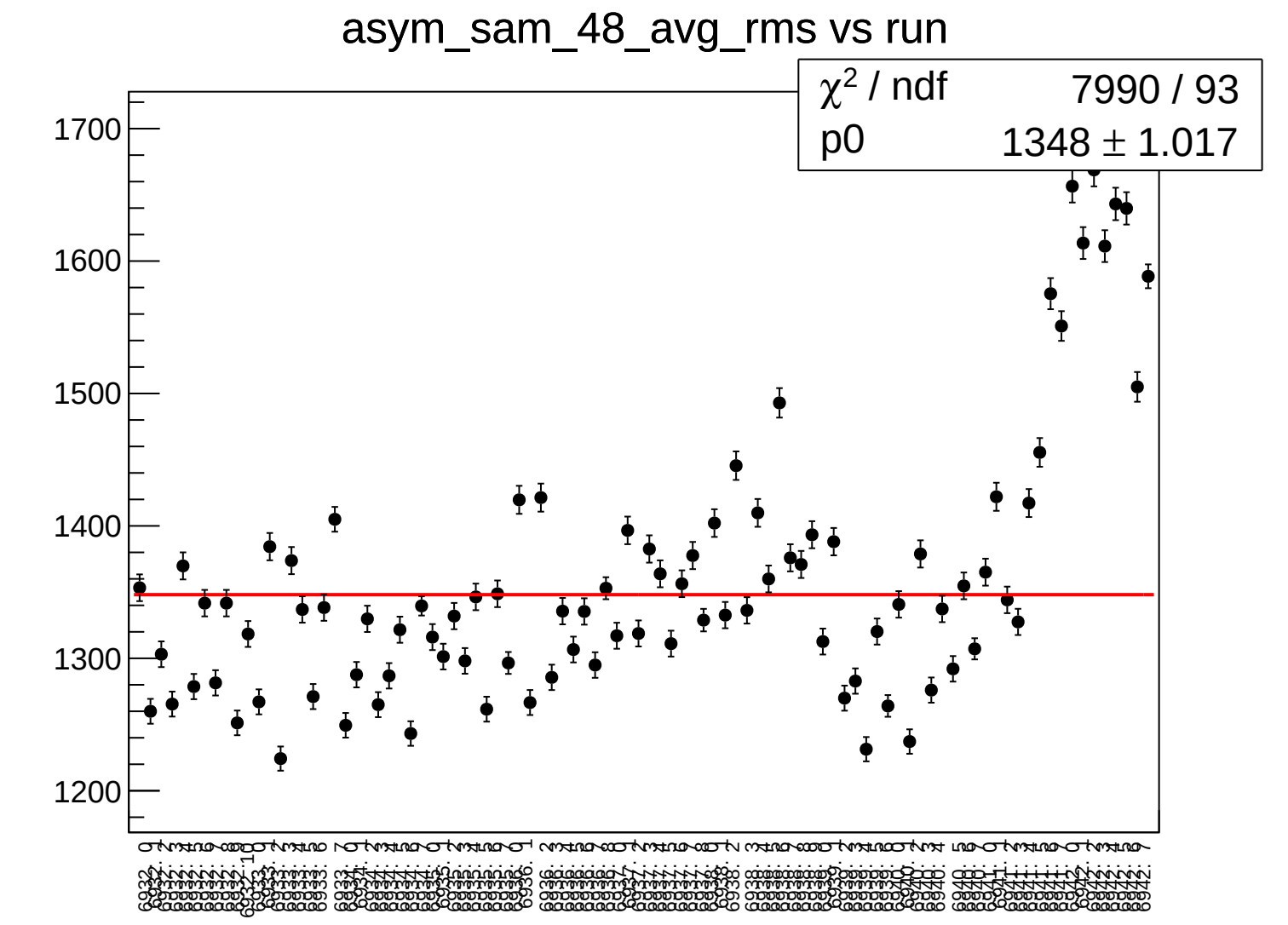

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.21 / 93
p0 863.6 ± 1431
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 313.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

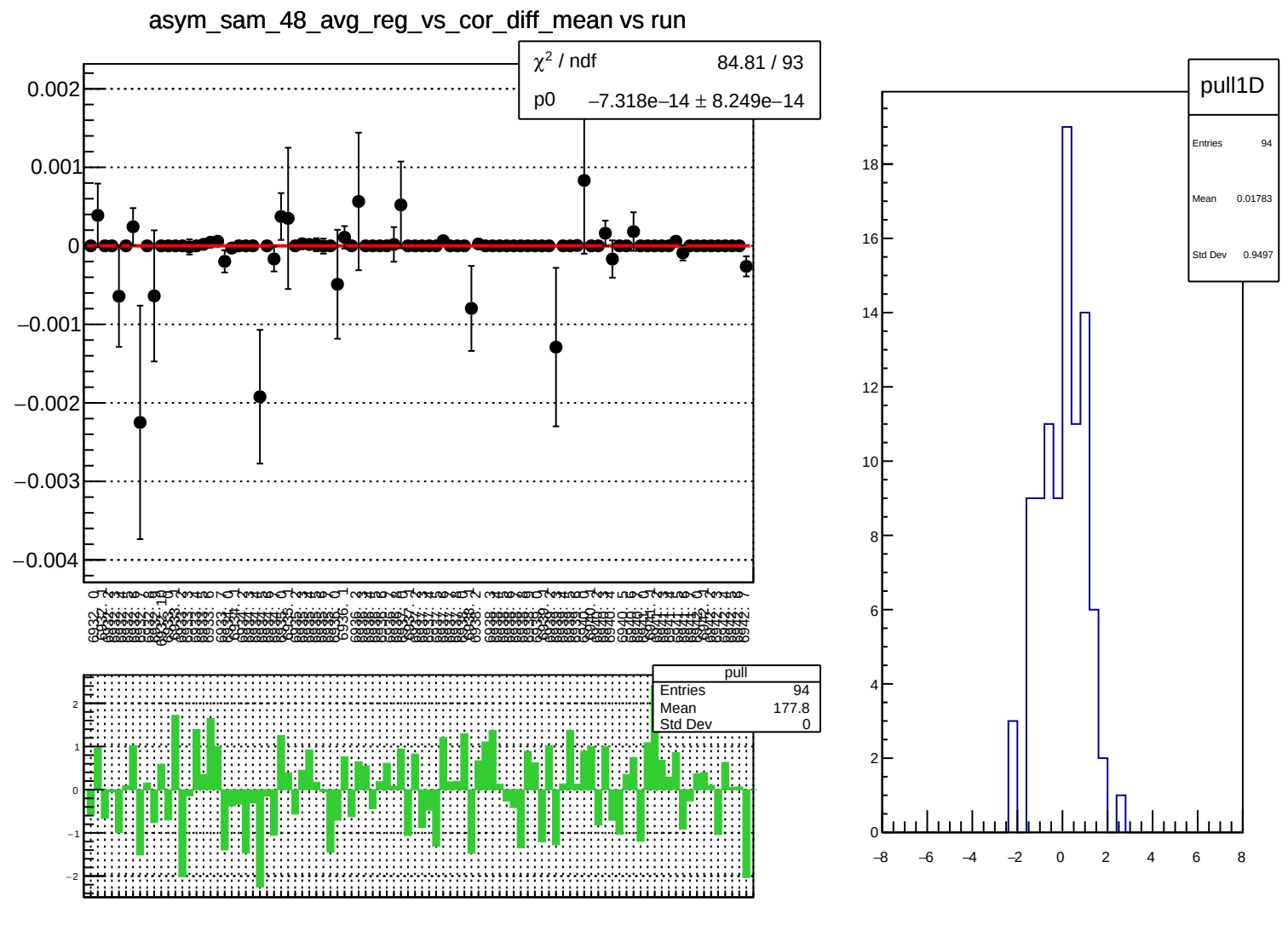

pull1D
Entries 94
Mean −0.01077
Std Dev 0.8642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

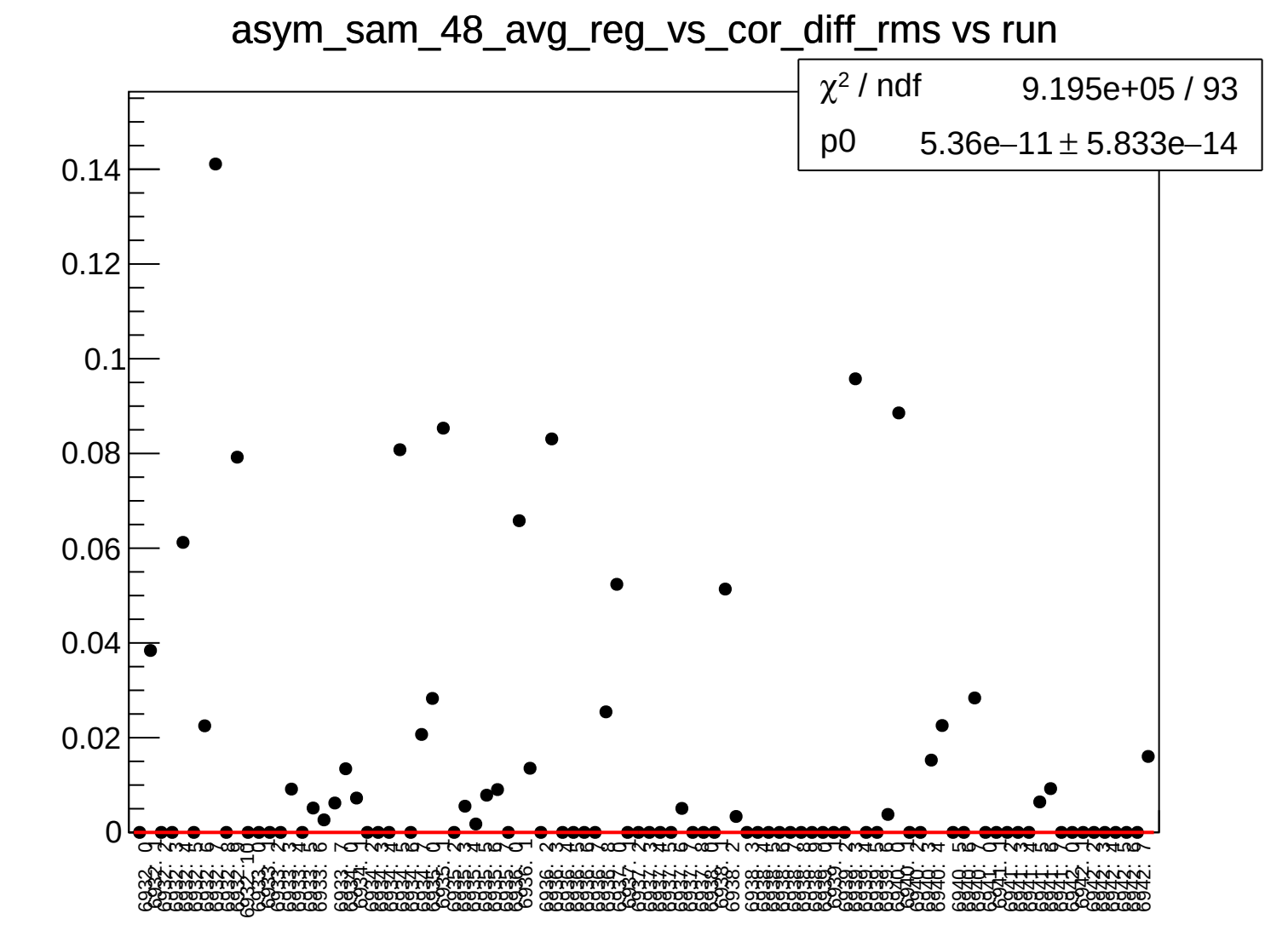

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 7287 / 93
p0 1341 ± 1.012
1700
1600
1500
1400
1300
1200

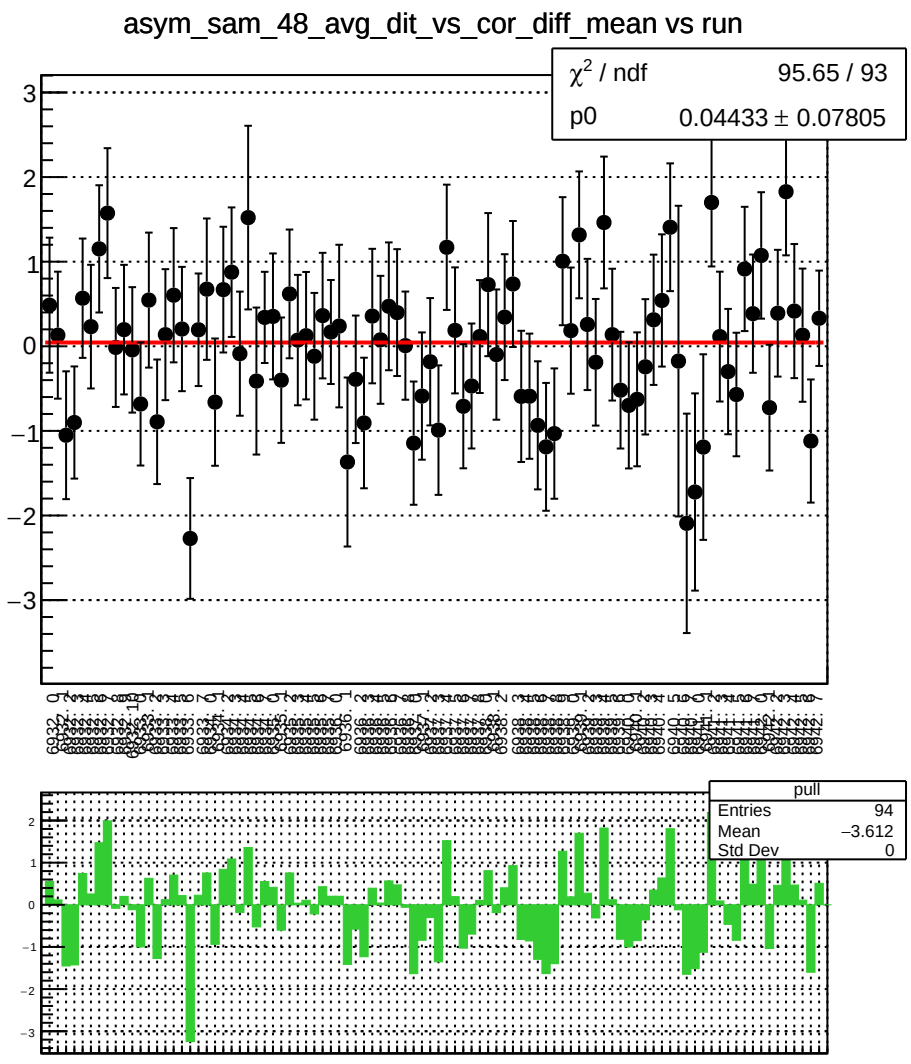

asym_sam_48_avg_mean vs run
χ² / ndf 72.03 / 93
p0 −1142 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 308.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

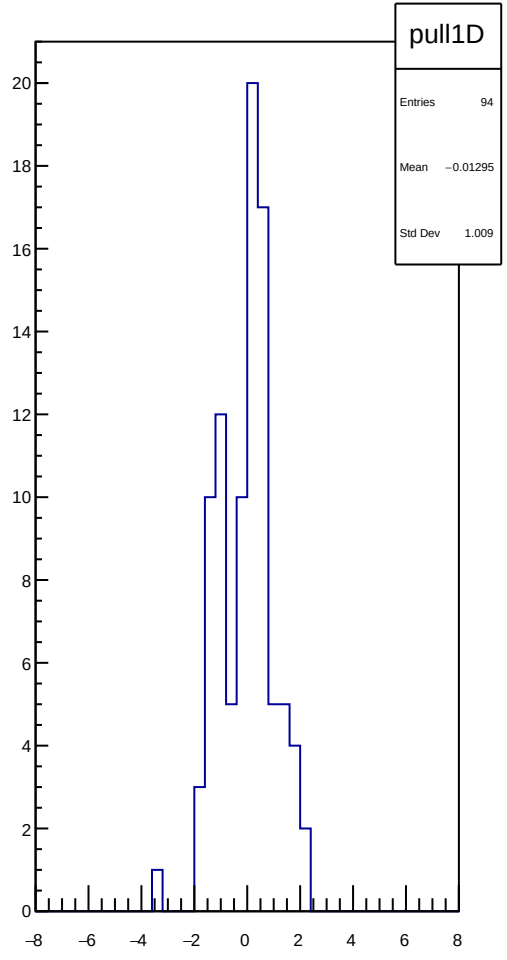

pull1D
Entries 94
Mean 0.01068
Std Dev 0.8753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

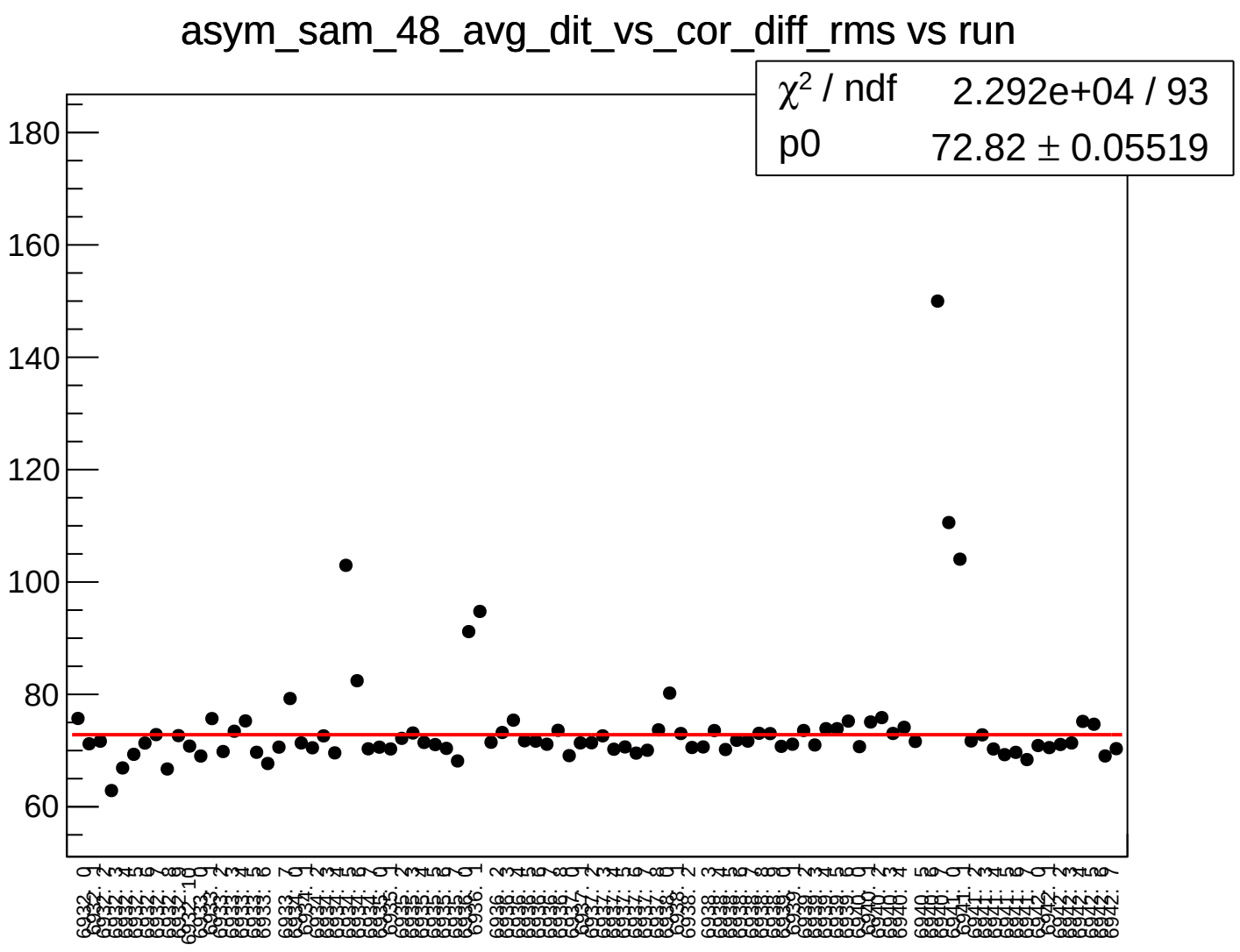

asym_sam_48_avg_rms vs run
χ² / ndf 7990 / 93
p0 1348 ± 1.017
1700
1600
1500
1400
1300
1200

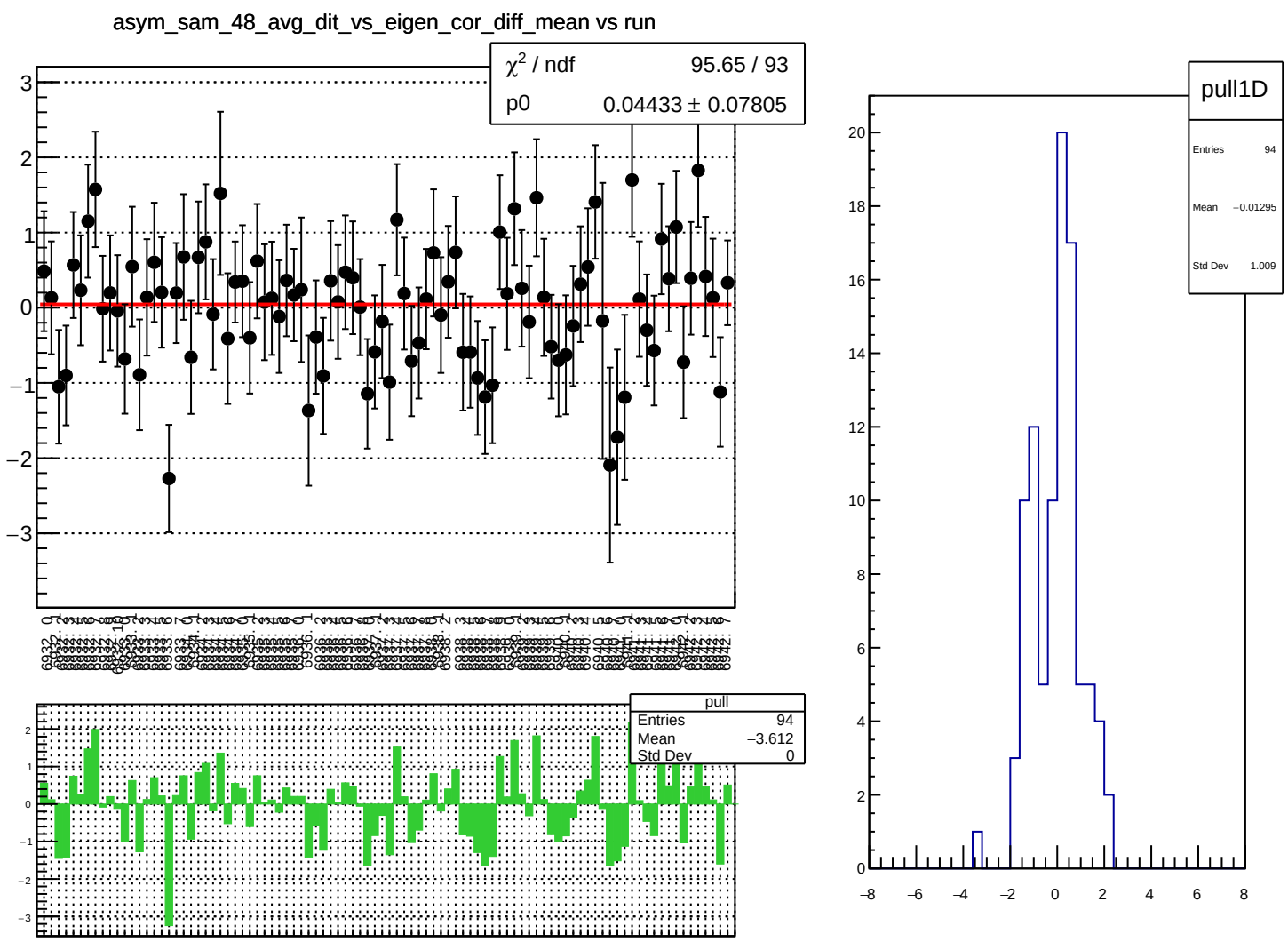

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.81 / 93
p0 −7.318e−14 ± 8.249e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 94
Mean 177.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01783
Std Dev 0.9497
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

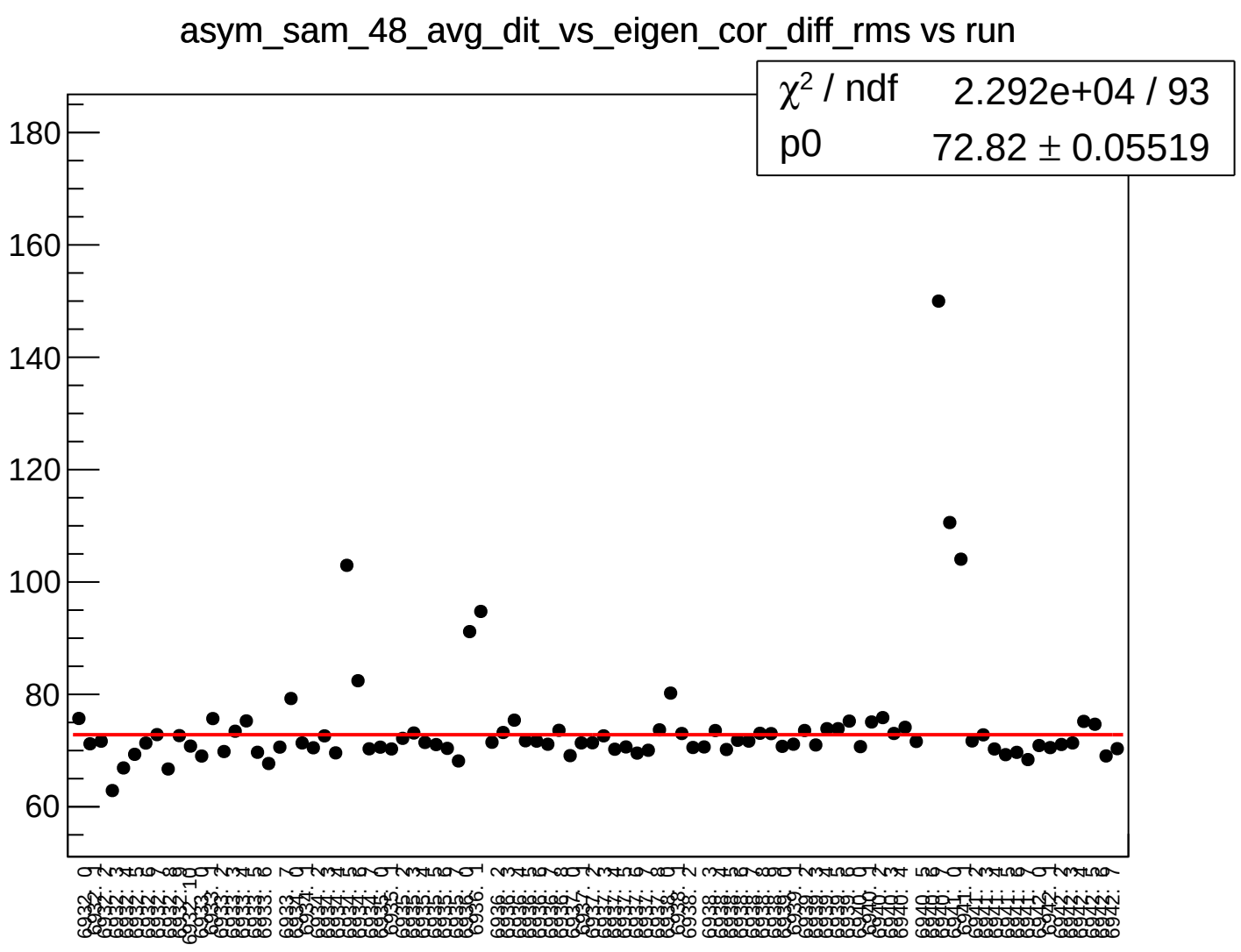

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.195e+05 / 93
p0 5.36e−11 ± 5.833e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

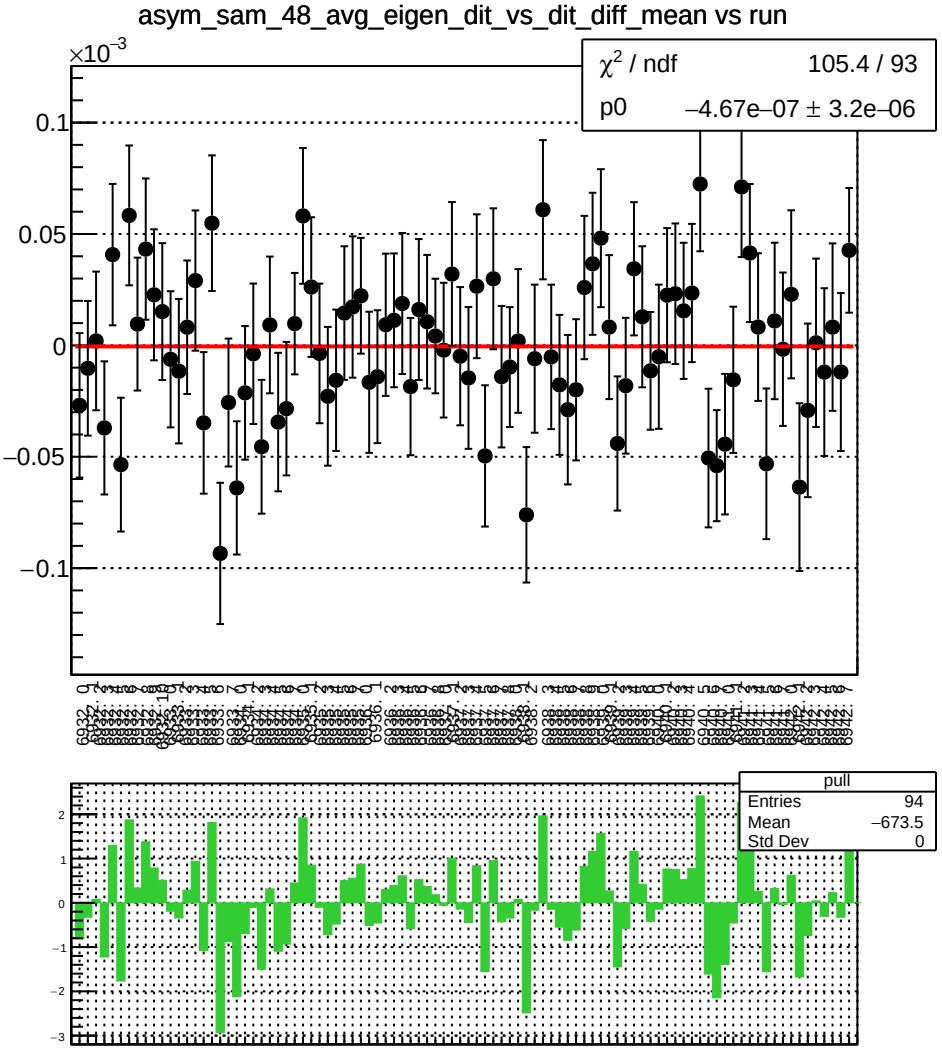

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 93
p0 0.04433 ± 0.07805
pull
Entries 94
Mean −3.612
Std Dev 0

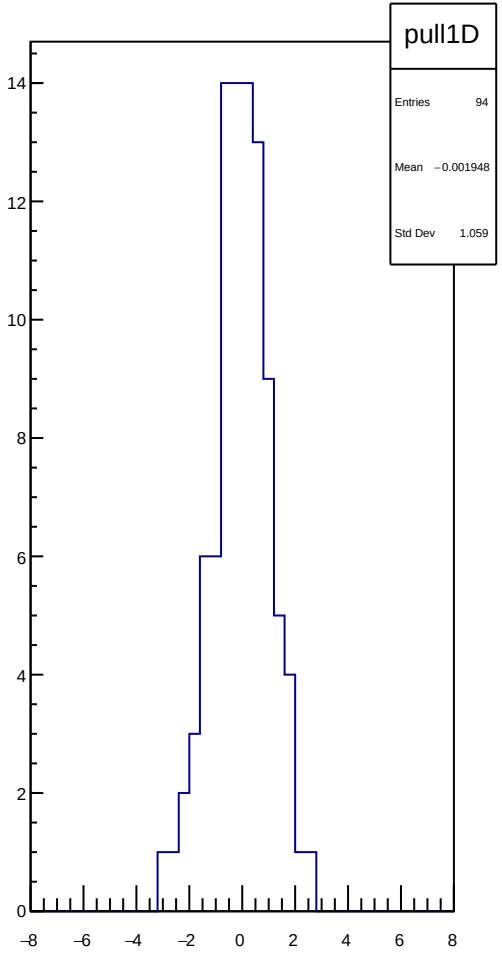

pull1D
Entries 94
Mean −0.01295
Std Dev 1.009

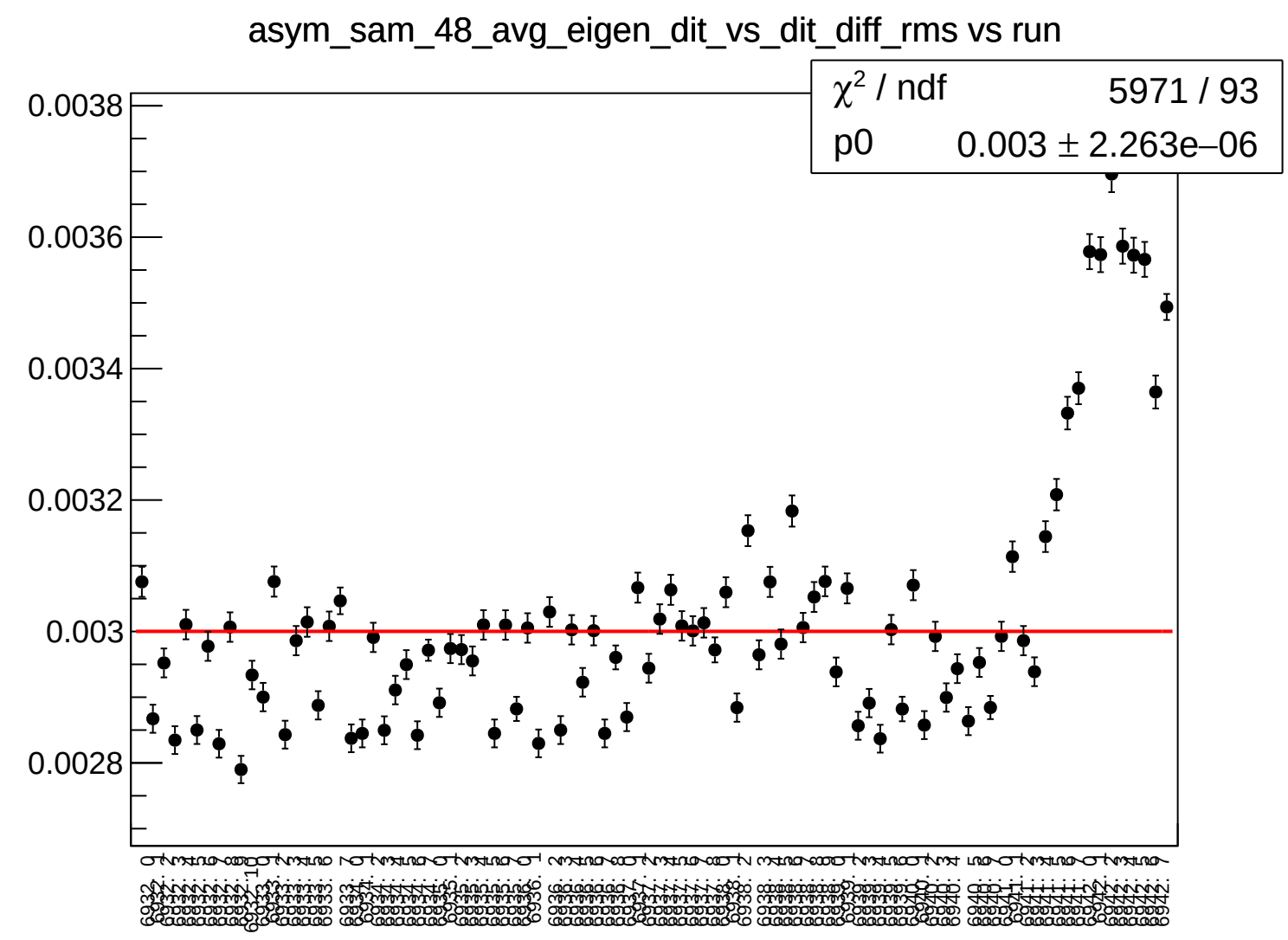

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.292e+04 / 93
p0 72.82 ± 0.05519
180
160
140
120
100
80
60

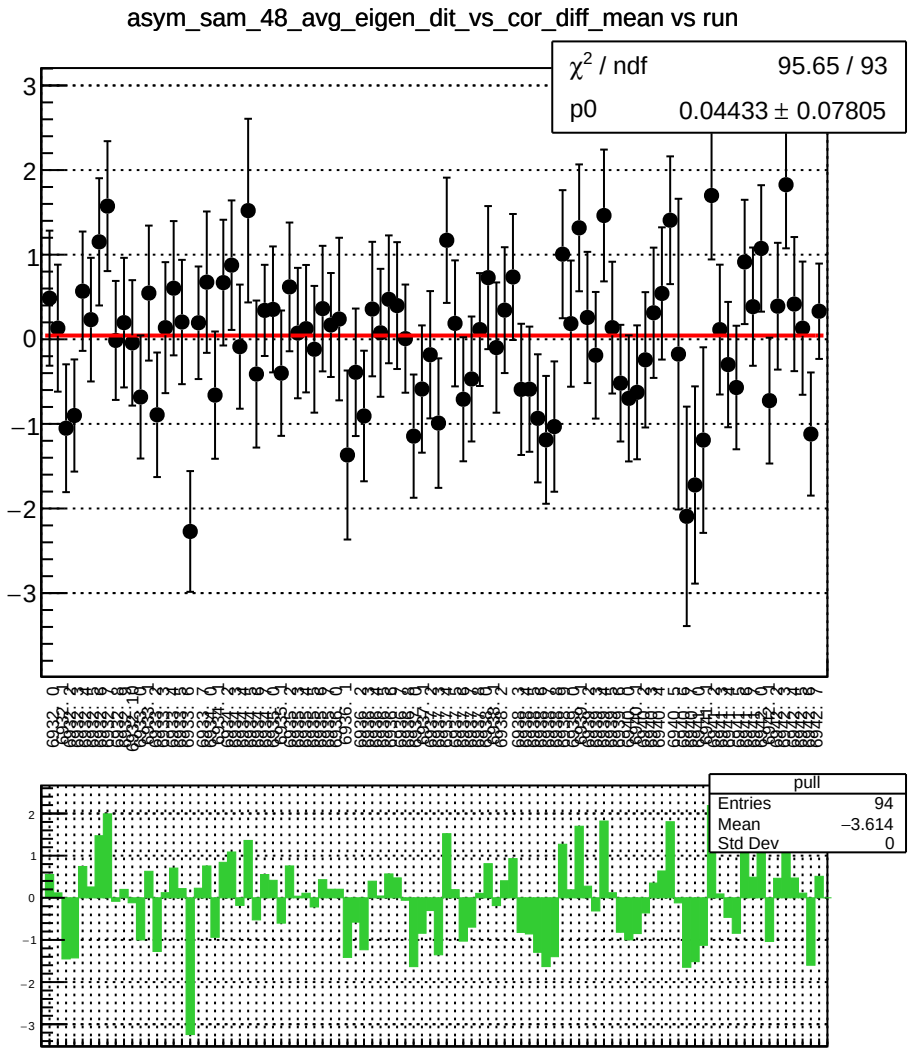

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 93
p0 0.04433 ± 0.07805
pull
Entries 94
Mean −3.612
Std Dev 0
pull1D
Entries 94
Mean −0.01295
Std Dev 1.009

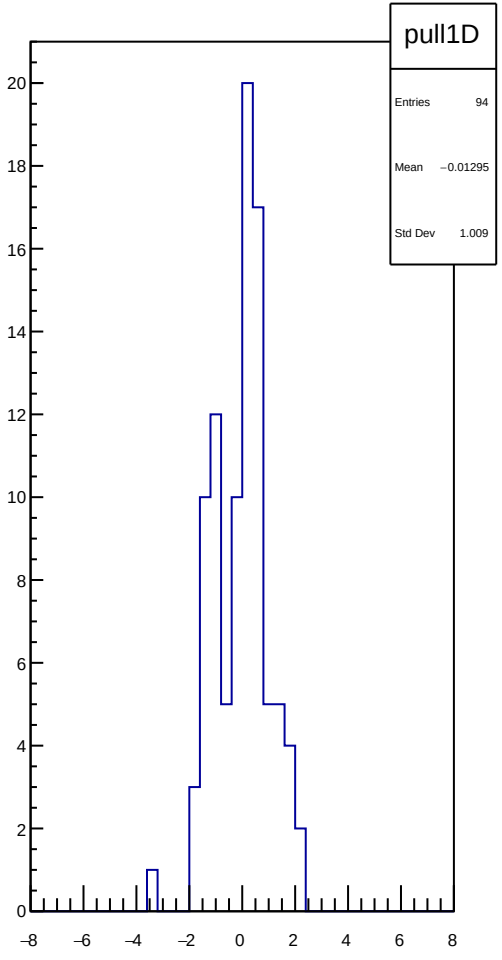

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.292e+04 / 93
p0 72.82 ± 0.05519
180
160
140
120
100
80
60

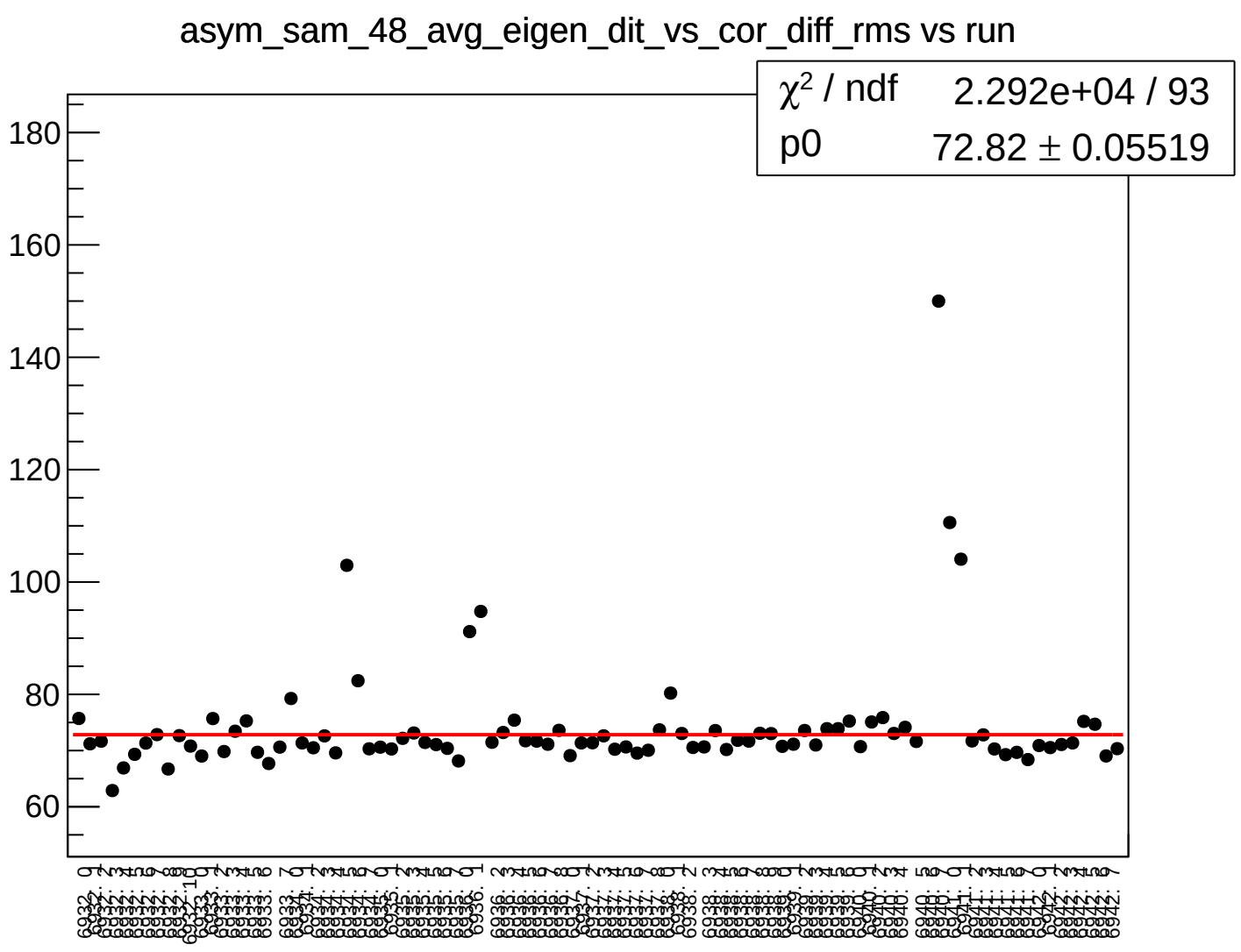

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.4 / 93
p0 −4.67e−07 ± 3.2e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −673.5
Std Dev 0
2
1
0
−1
−2
−3

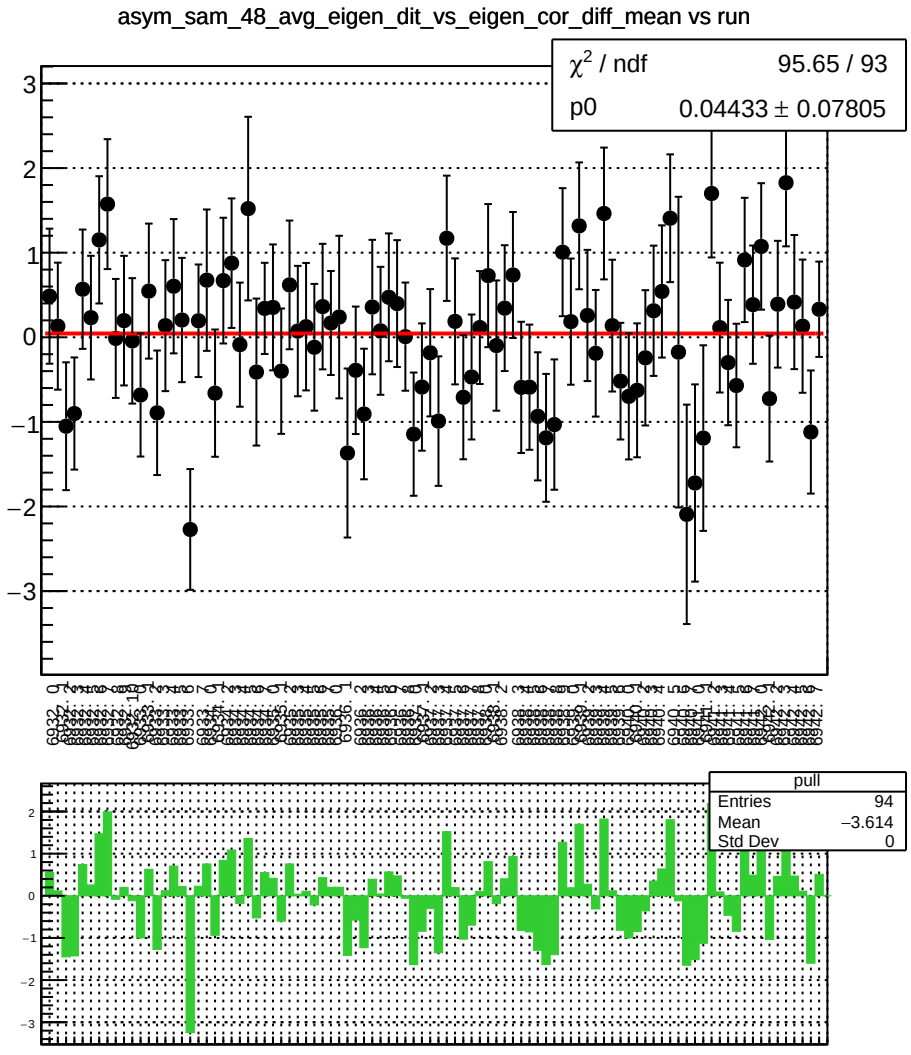

pull1D
Entries 94
Mean −0.001948
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

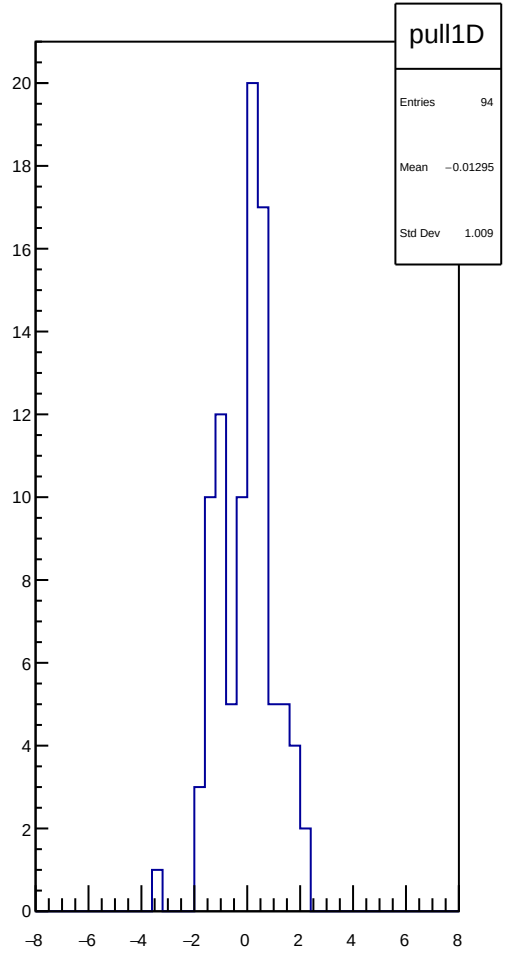

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5971 / 93
p0 0.003 ± 2.263e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

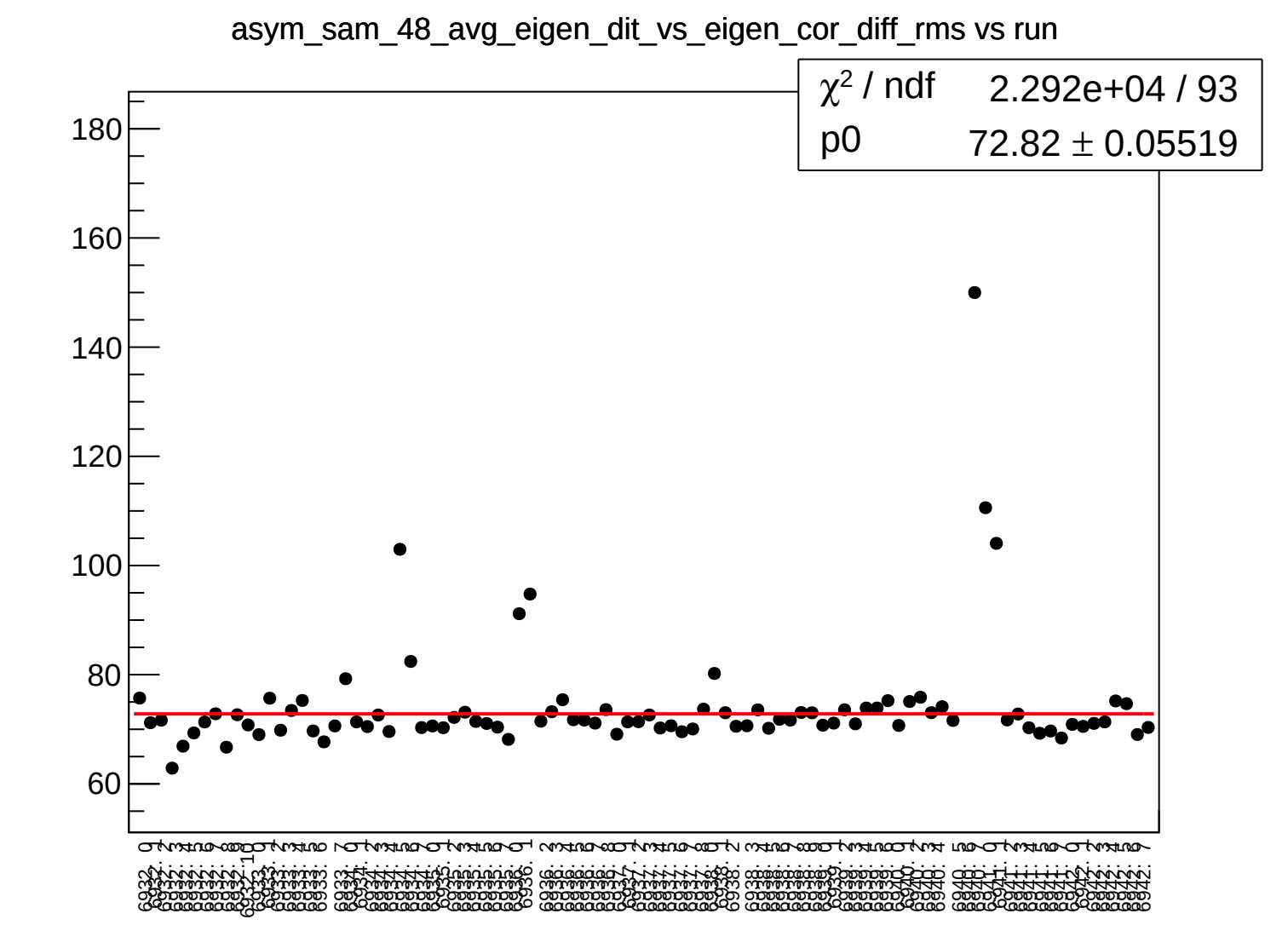

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.65 / 93
p0 0.04433 ± 0.07805
pull
Entries 94
Mean −3.614
Std Dev 0

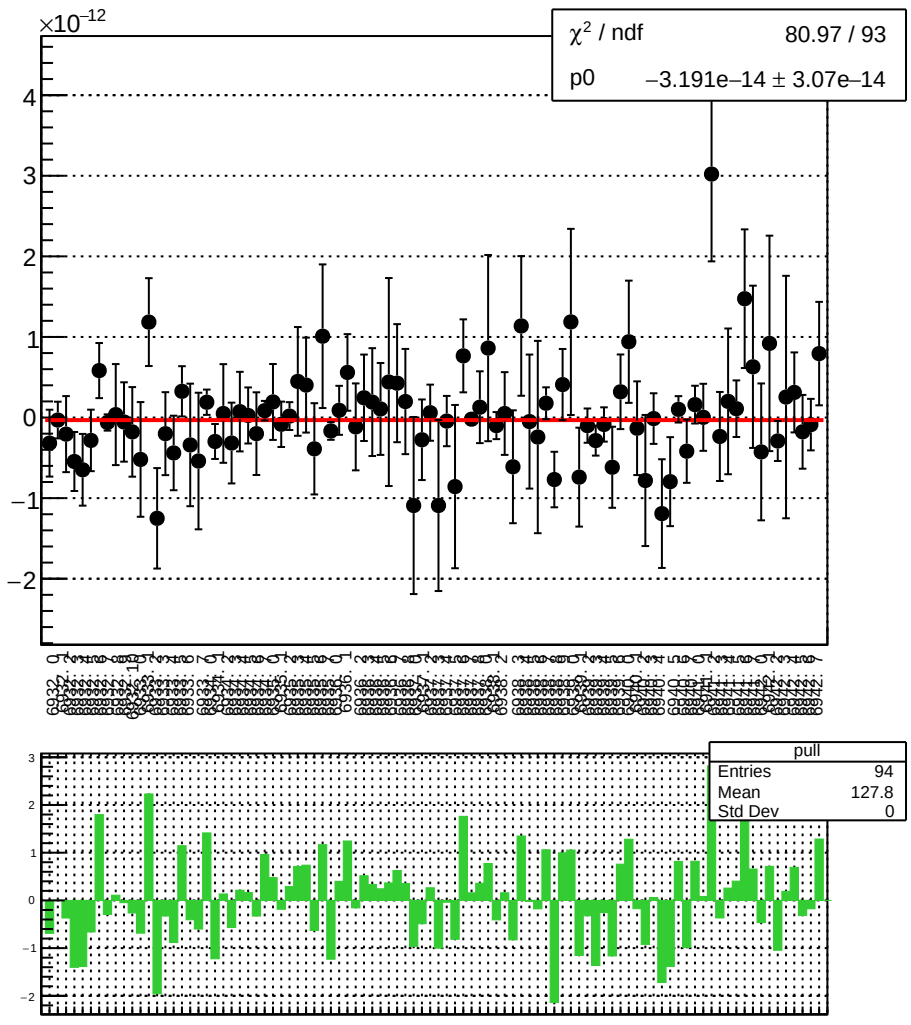

pull1D
Entries 94
Mean −0.01295
Std Dev 1.009

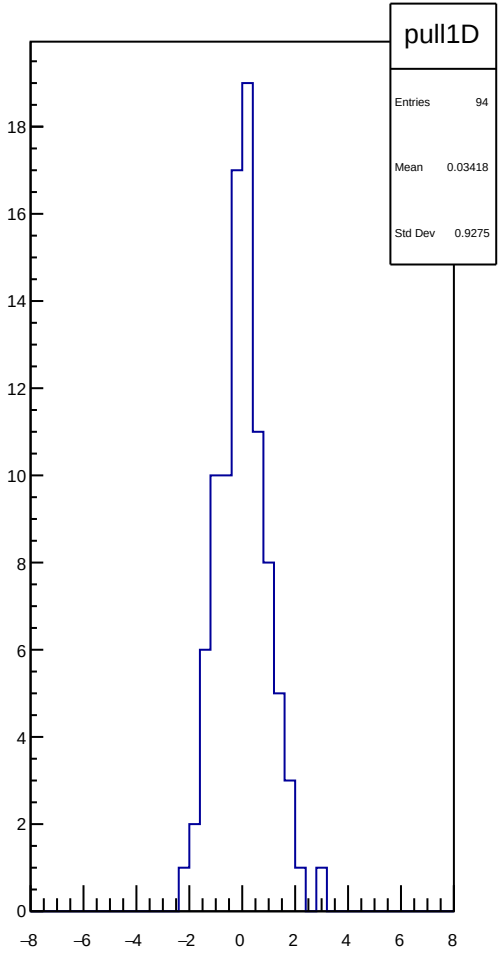

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.292e+04 / 93
p0 72.82 ± 0.05519
180
160
140
120
100
80
60

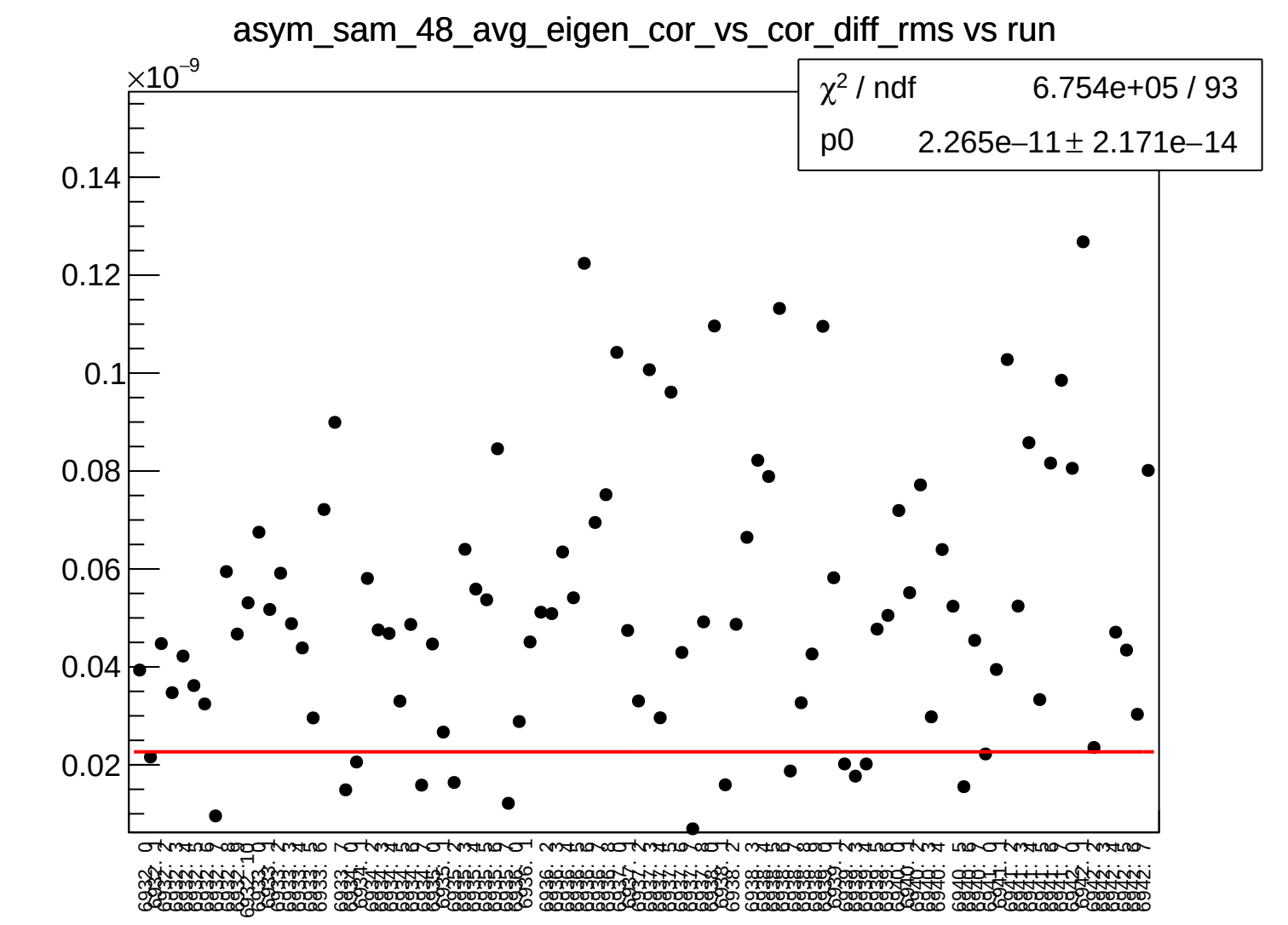

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.65 / 93
p0 0.04433 ± 0.07805
pull
Entries 94
Mean −3.614
Std Dev 0

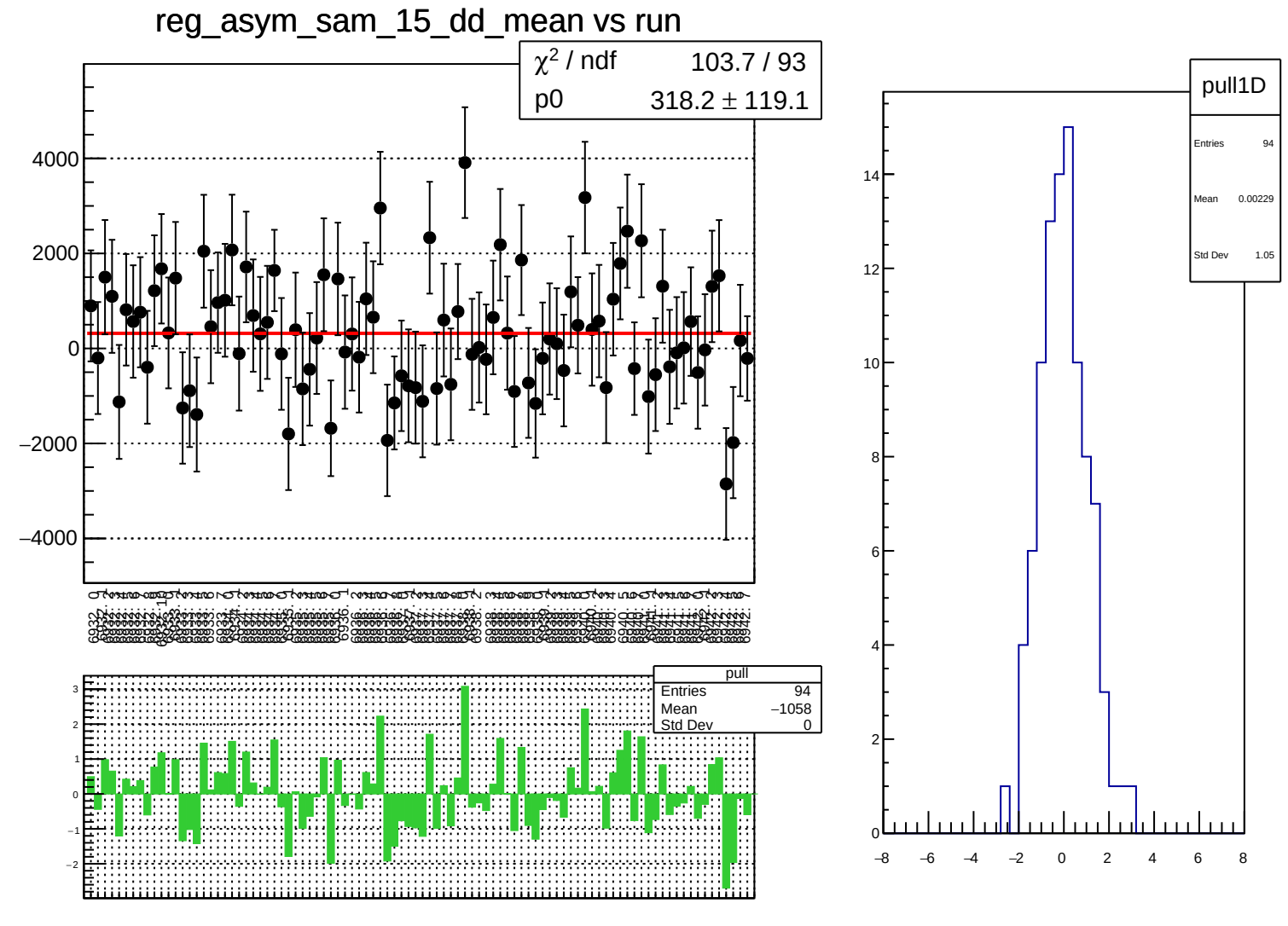

pull1D
Entries 94
Mean −0.01295
Std Dev 1.009

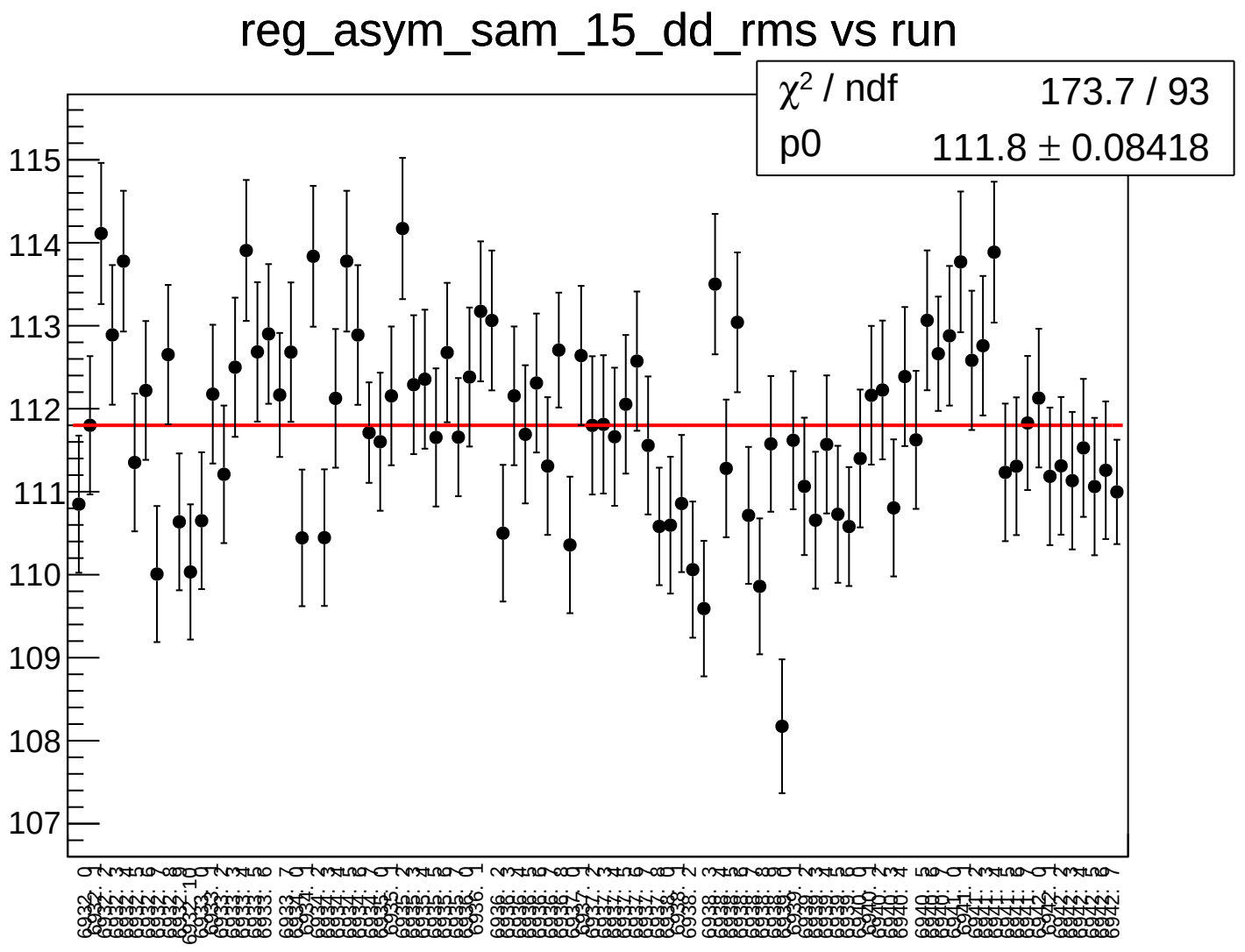

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.292e+04 / 93
p0 72.82 ± 0.05519
180
160
140
120
100
80
60

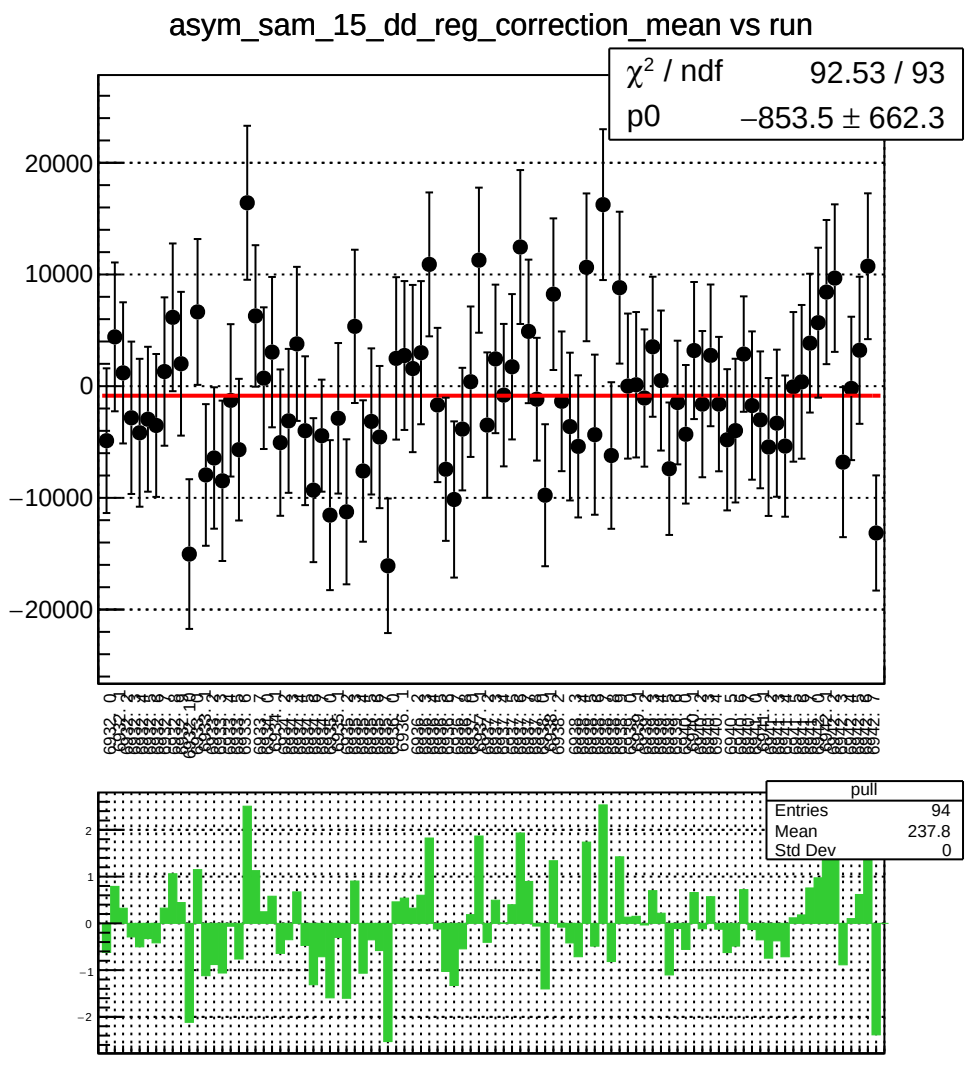

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.97 / 93
p0 −3.191e−14 ± 3.07e−14
pull
Entries 94
Mean 127.8
Std Dev 0

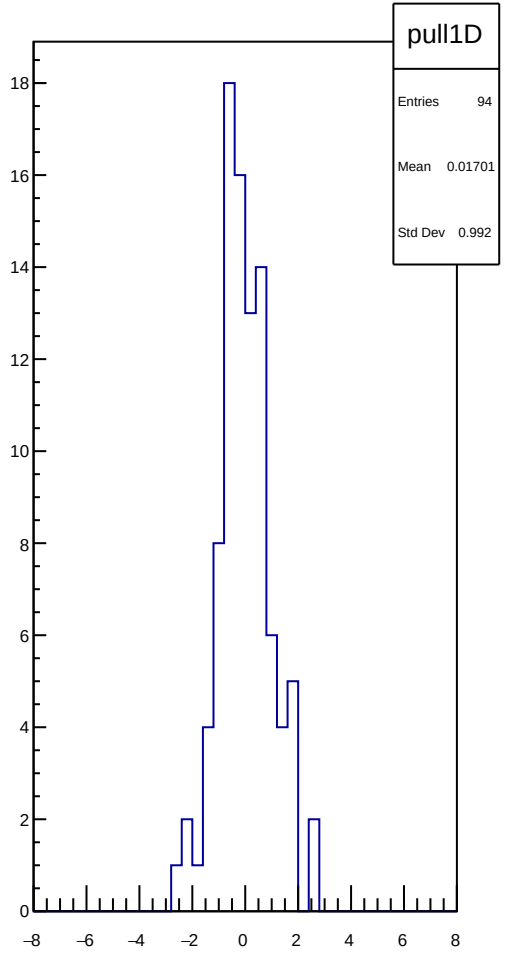

pull1D
Entries 94
Mean 0.03418
Std Dev 0.9275

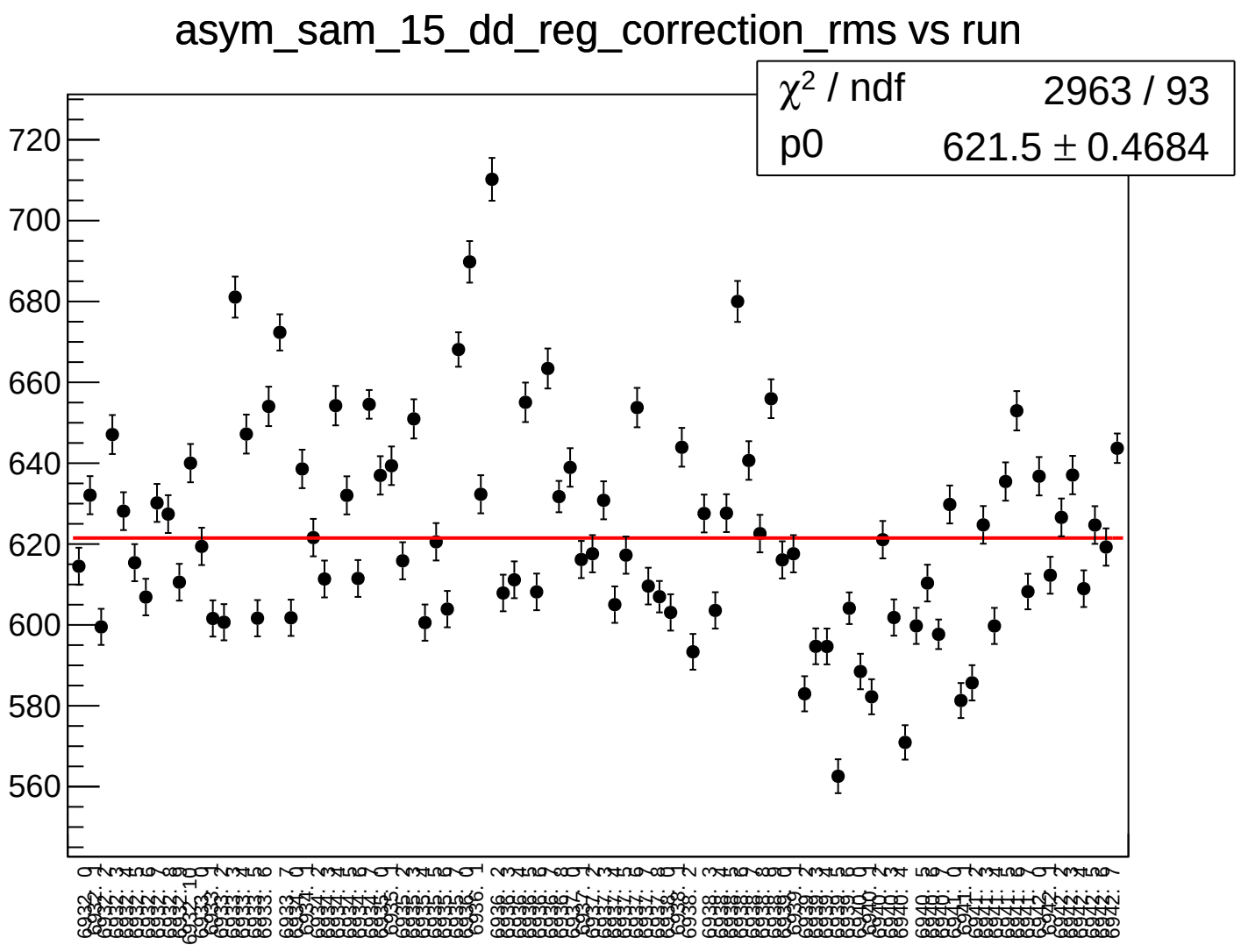

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.754e+05 / 93
p0 2.265e−11 ± 2.171e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

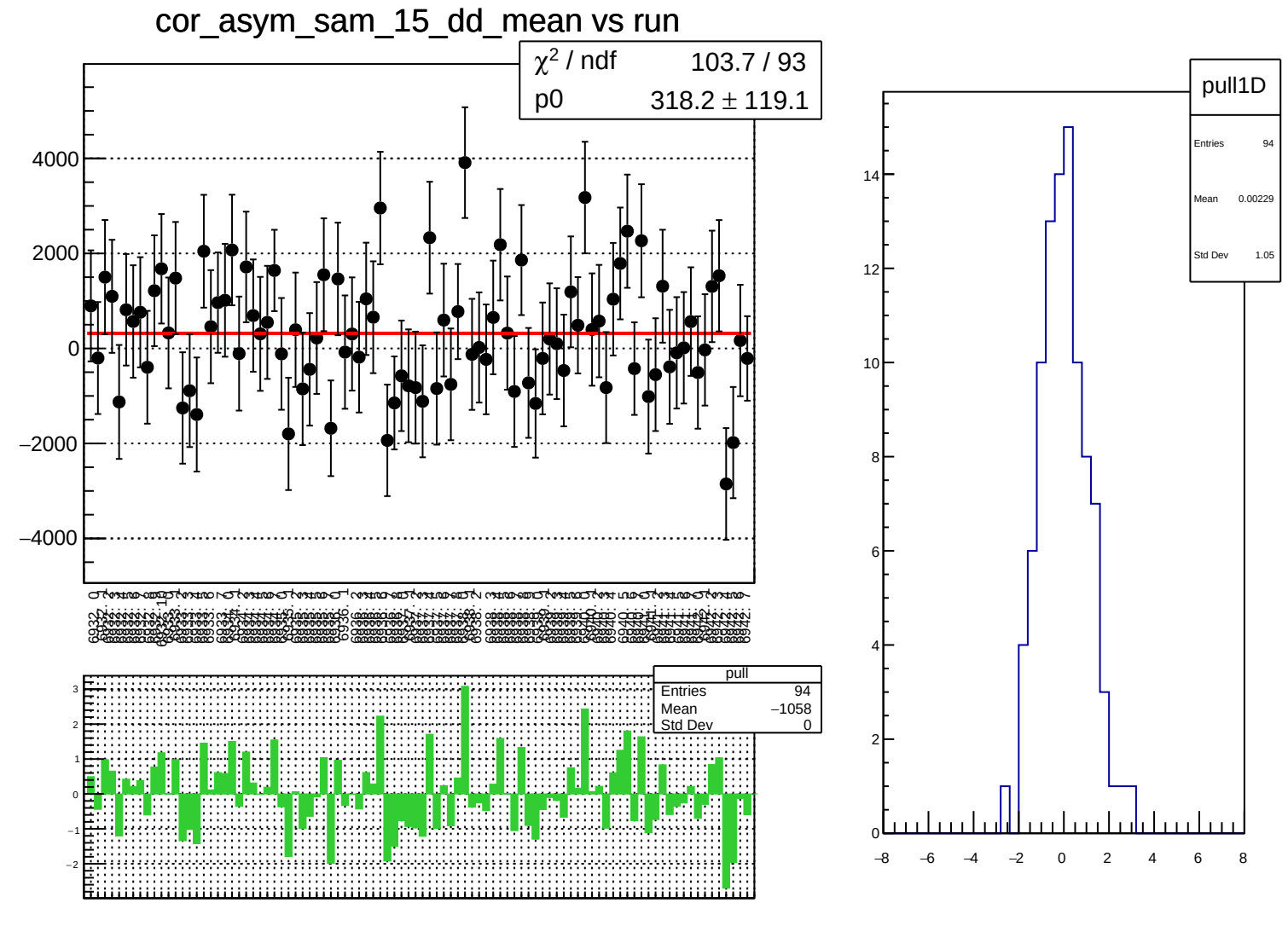

reg_asym_sam_15_dd_mean vs run
χ² / ndf 103.7 / 93
p0 318.2 ± 119.1
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1058
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.00229
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

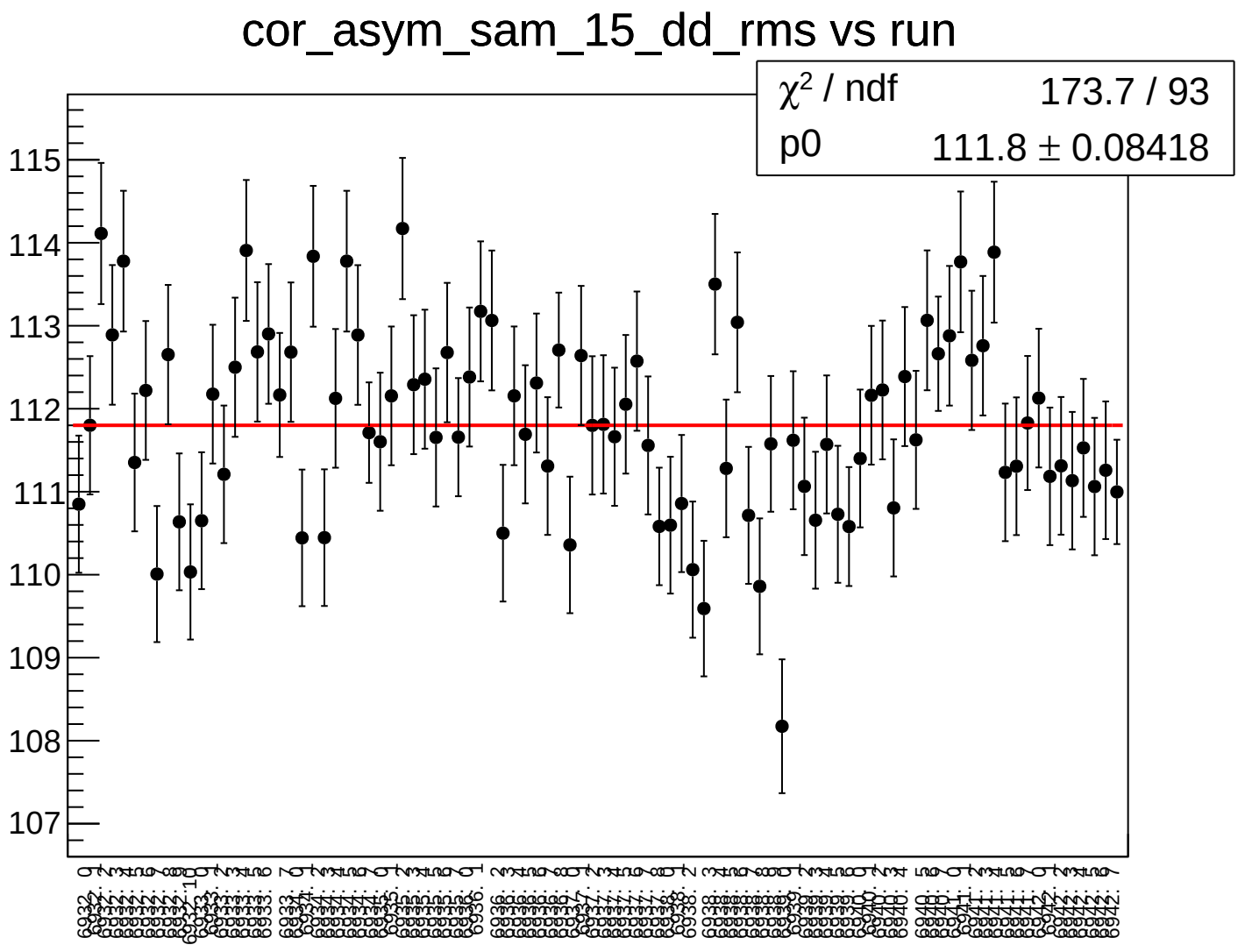

reg_asym_sam_15_dd_rms vs run
χ² / ndf 173.7 / 93
p0 111.8 ± 0.08418
115
114
113
112
111
110
109
108
107

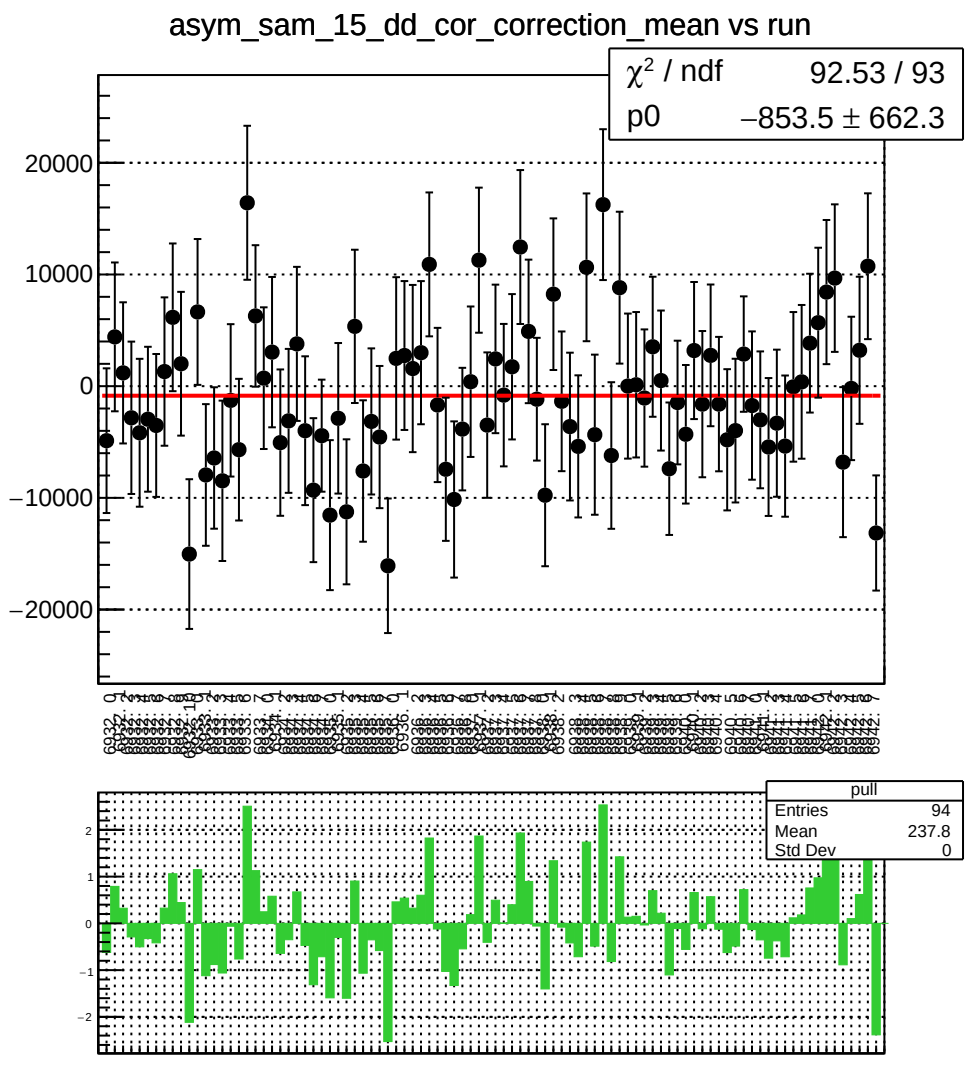

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 92.53 / 93
p0 −853.5 ± 662.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 237.8
Std Dev 0
2
1
0
−1
−2

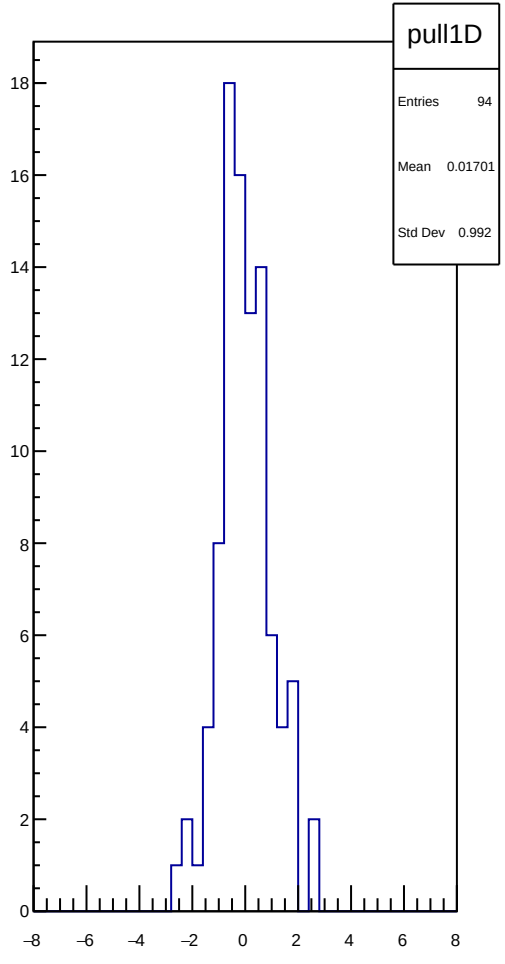

pull1D
Entries 94
Mean 0.01701
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

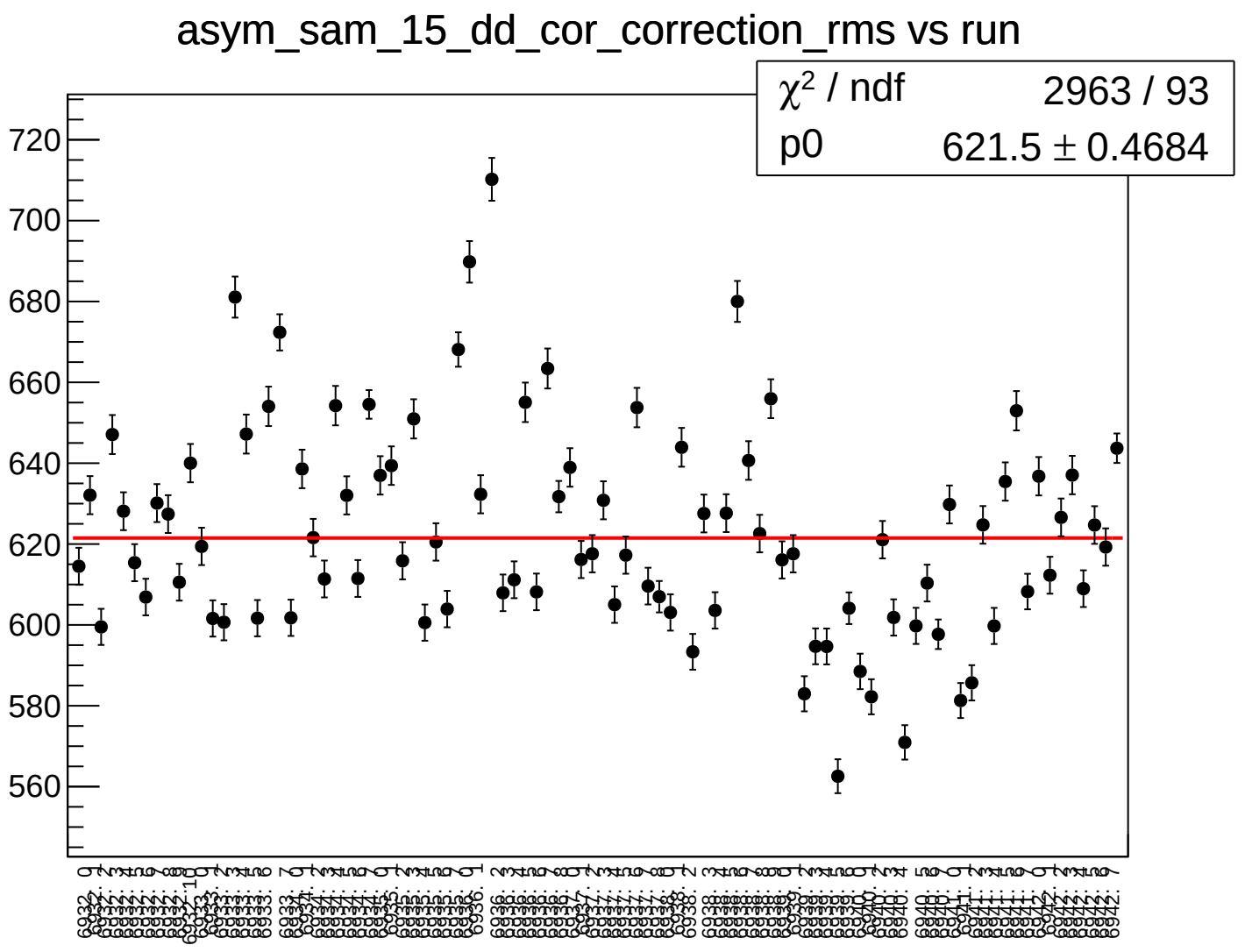

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 2963 / 93
p0 621.5 ± 0.4684
720
700
680
660
640
620
600
580
560

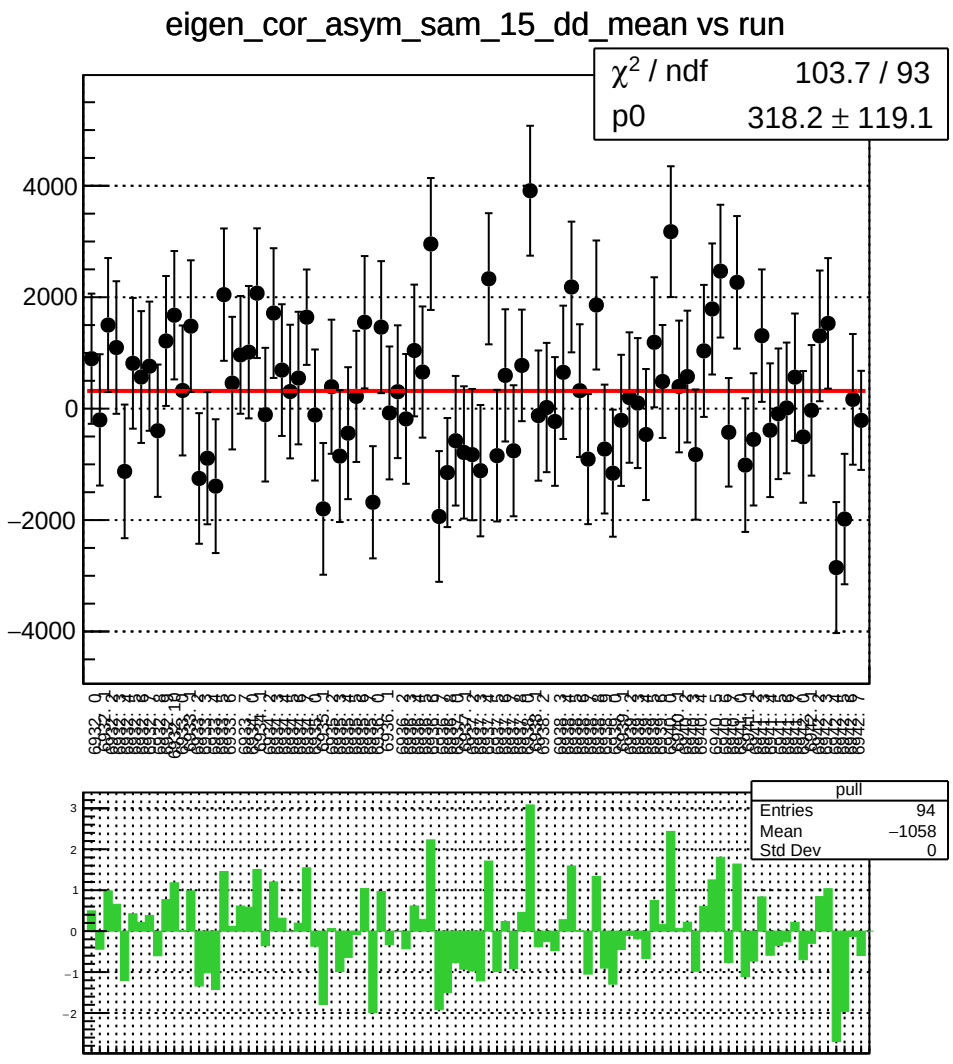

cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.7 / 93
p0 318.2 ± 119.1
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1058
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.00229
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

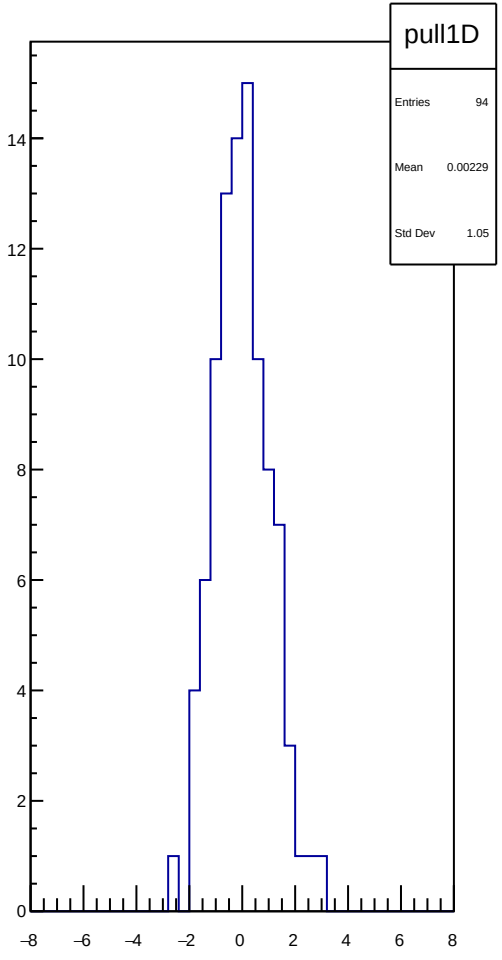

cor_asym_sam_15_dd_rms vs run
χ² / ndf 173.7 / 93
p0 111.8 ± 0.08418
115
114
113
112
111
110
109
108
107

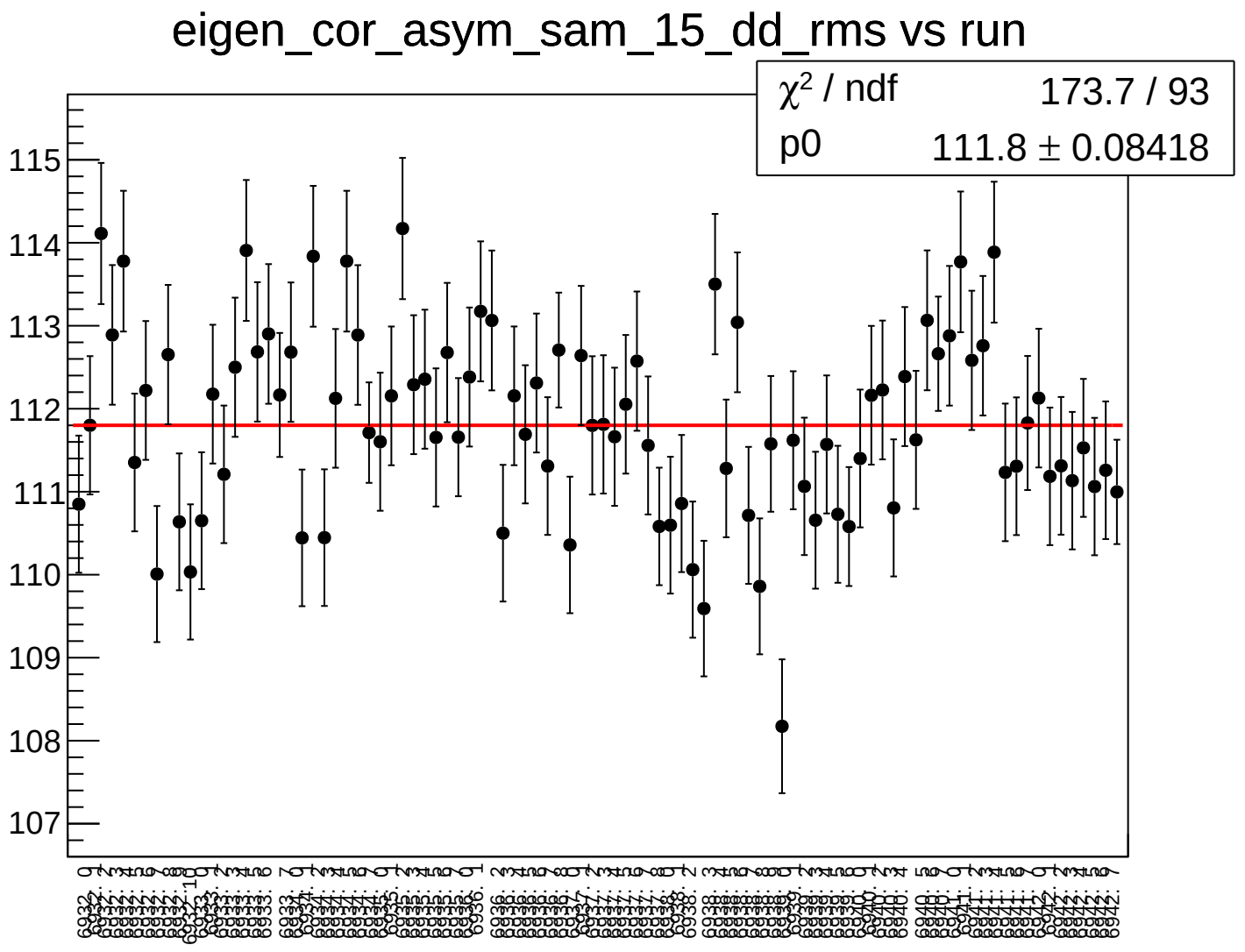

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 92.53 / 93
p0 −853.5 ± 662.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 237.8
Std Dev 0
2
1
0
−1
−2

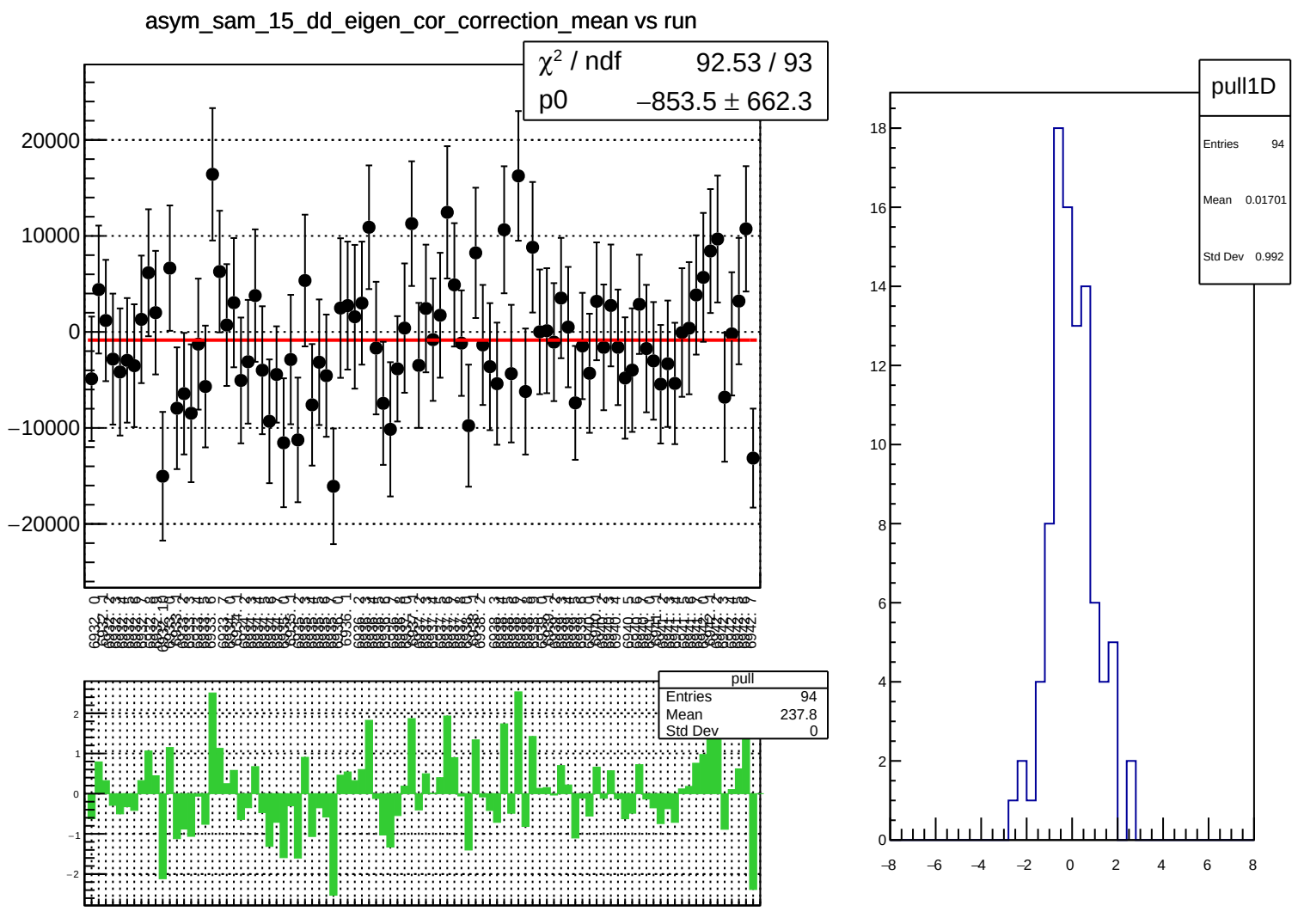

pull1D
Entries 94
Mean 0.01701
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

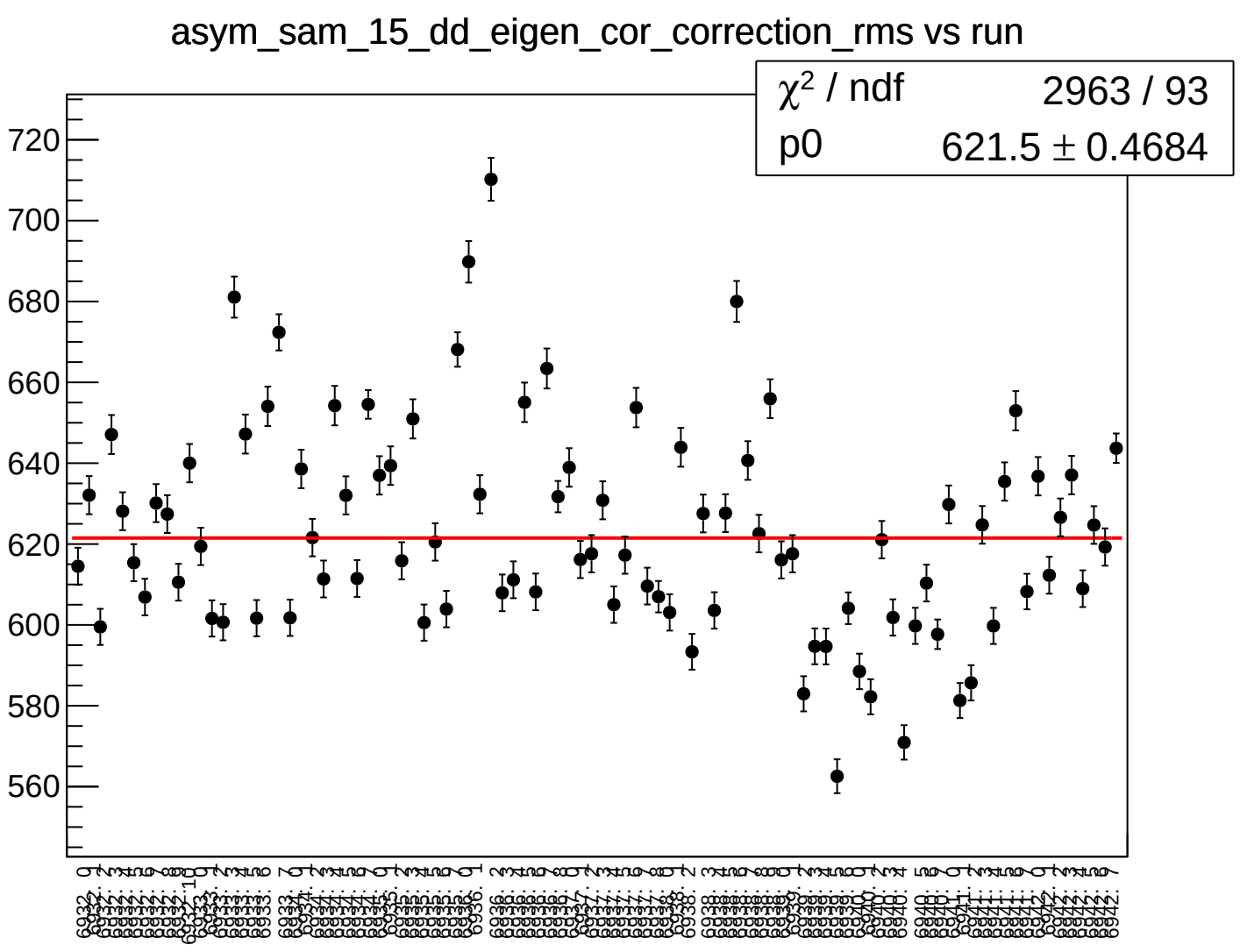

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 2963 / 93
p0 621.5 ± 0.4684
720
700
680
660
640
620
600
580
560

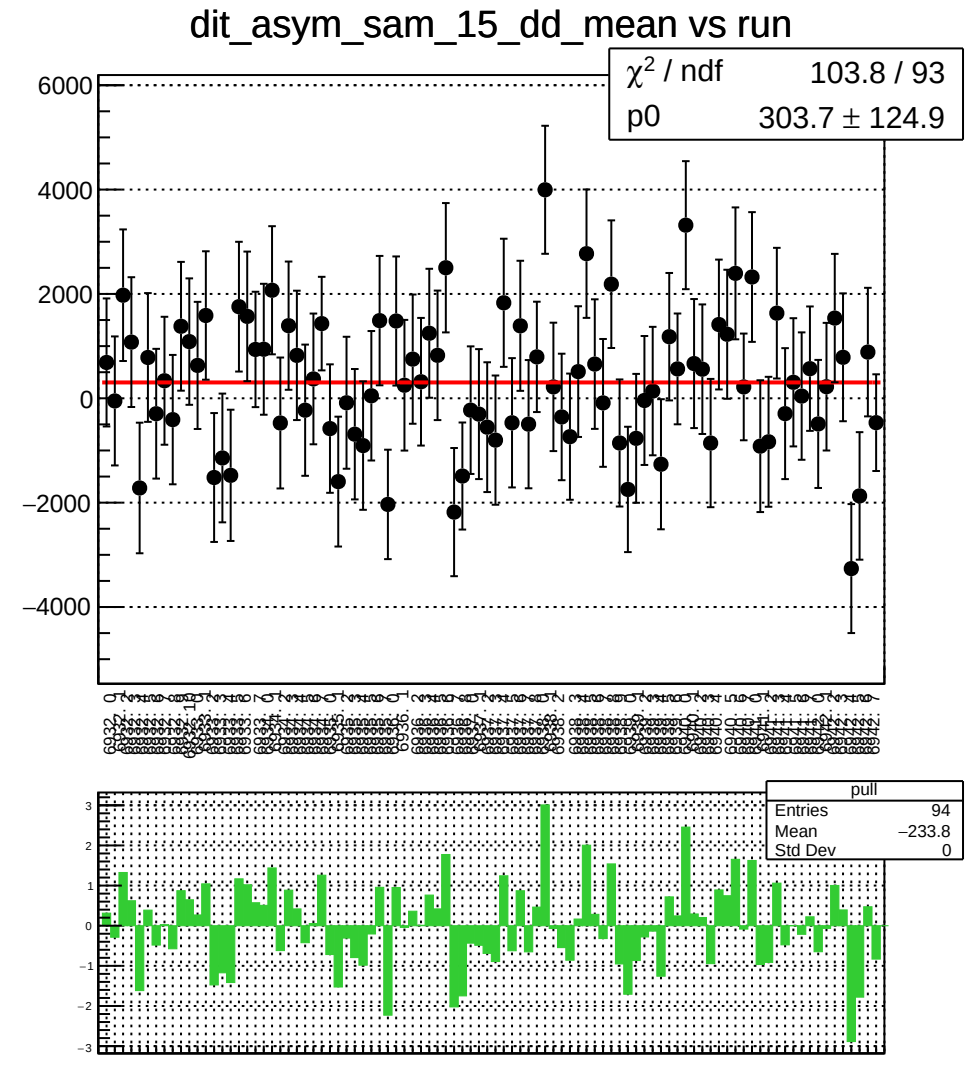

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.7 / 93
p0 318.2 ± 119.1
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −1058
Std Dev 0
3
2
1
0
−1
−2

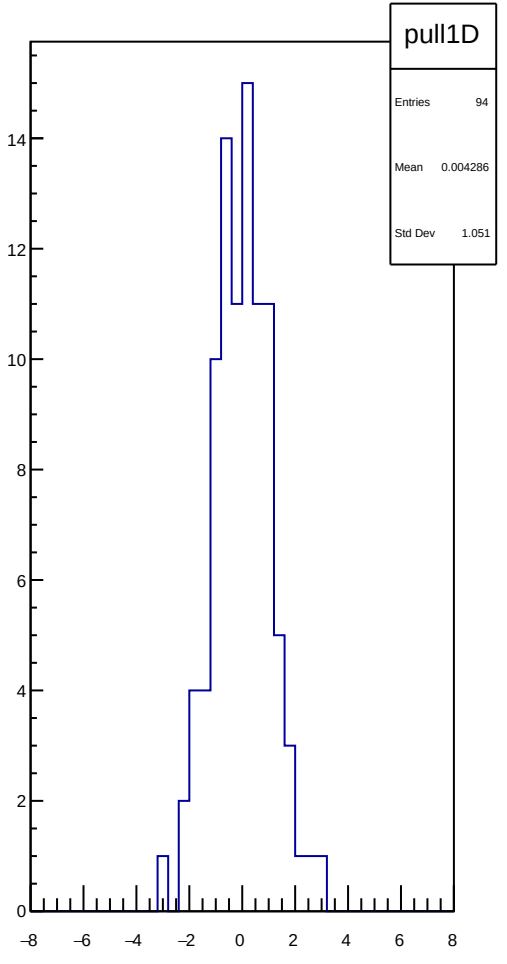

pull1D
Entries 94
Mean 0.00229
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

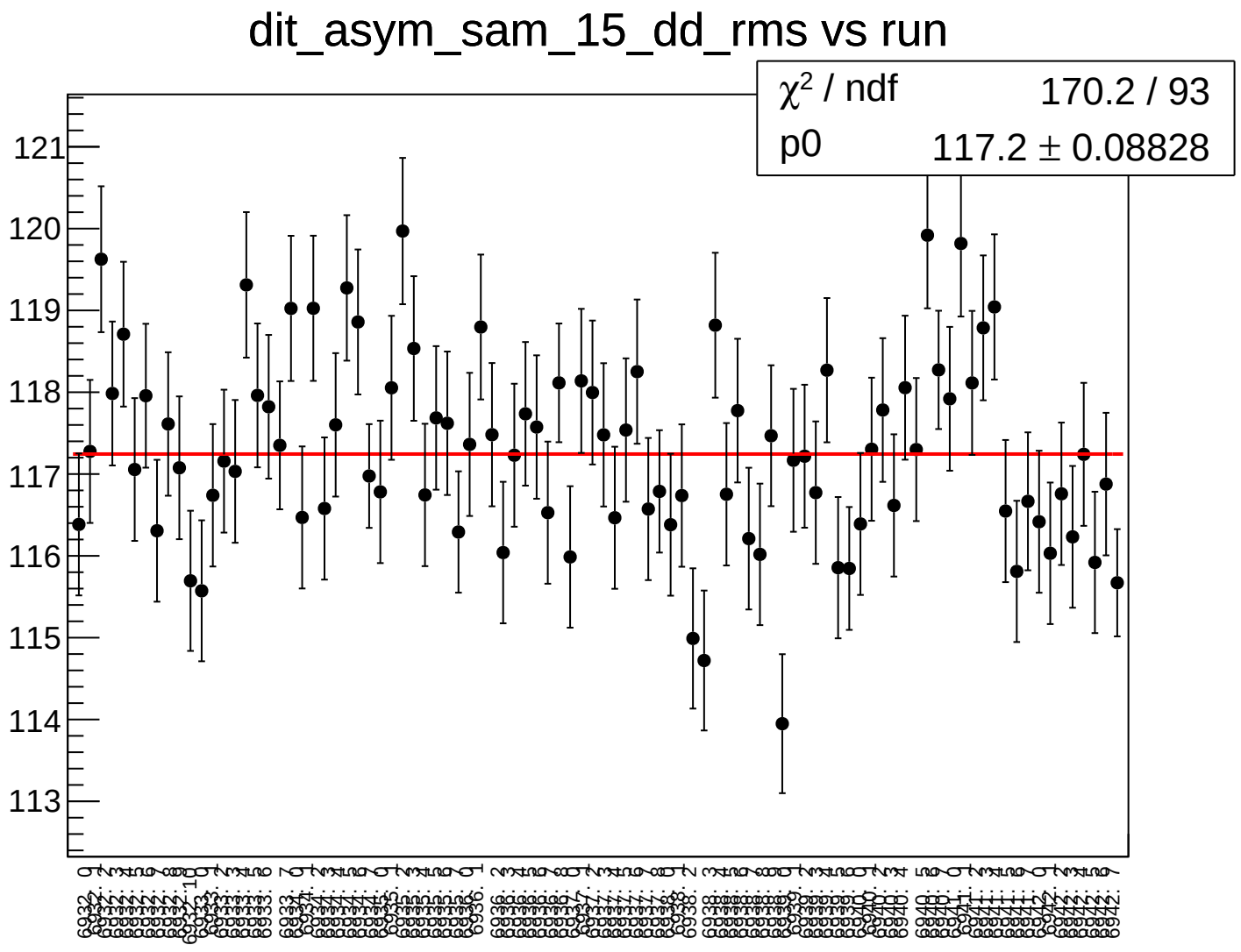

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 173.7 / 93
p0 111.8 ± 0.08418
115
114
113
112
111
110
109
108
107

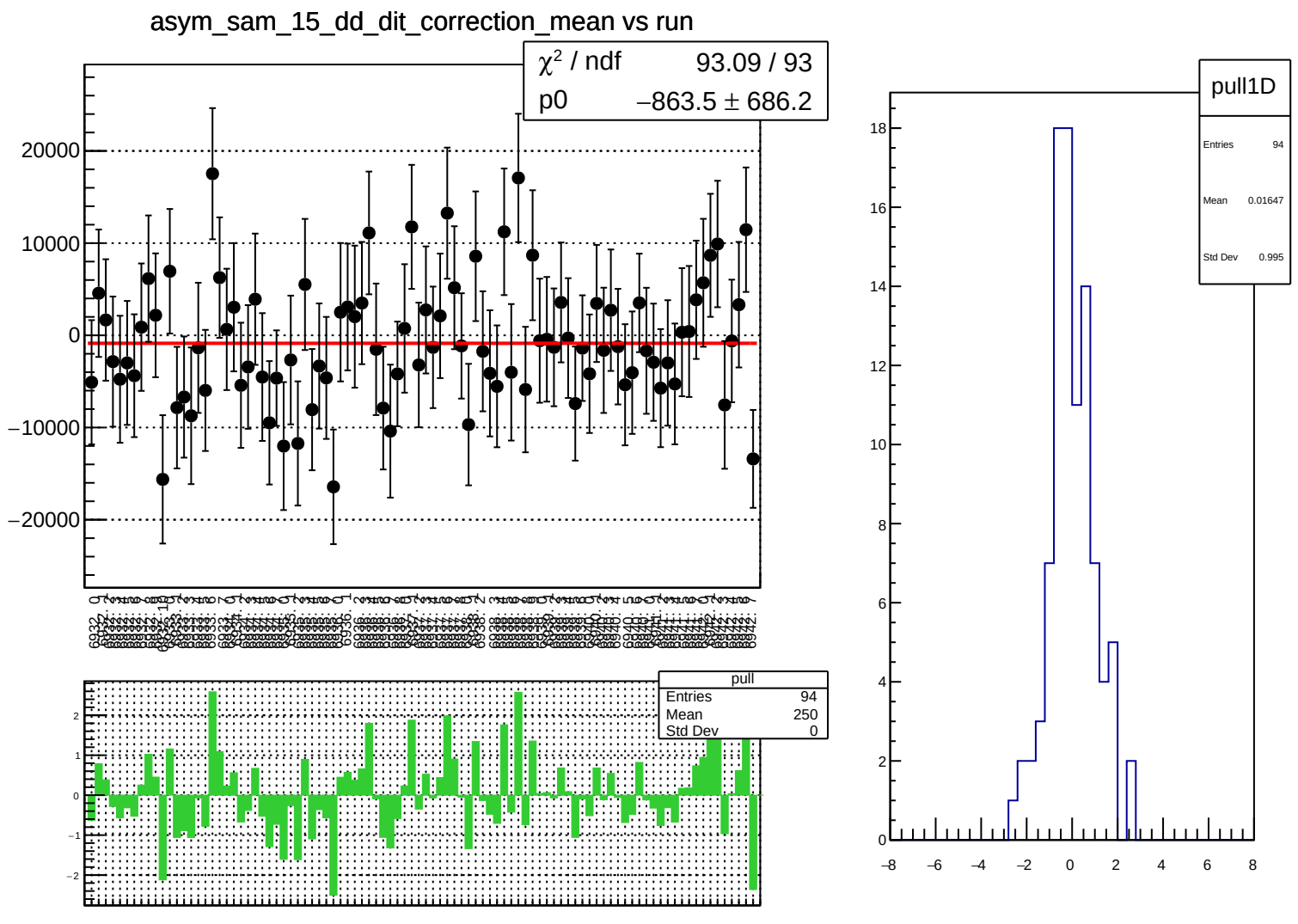

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 92.53 / 93
p0 −853.5 ± 662.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 237.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01701
Std Dev 0.992
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

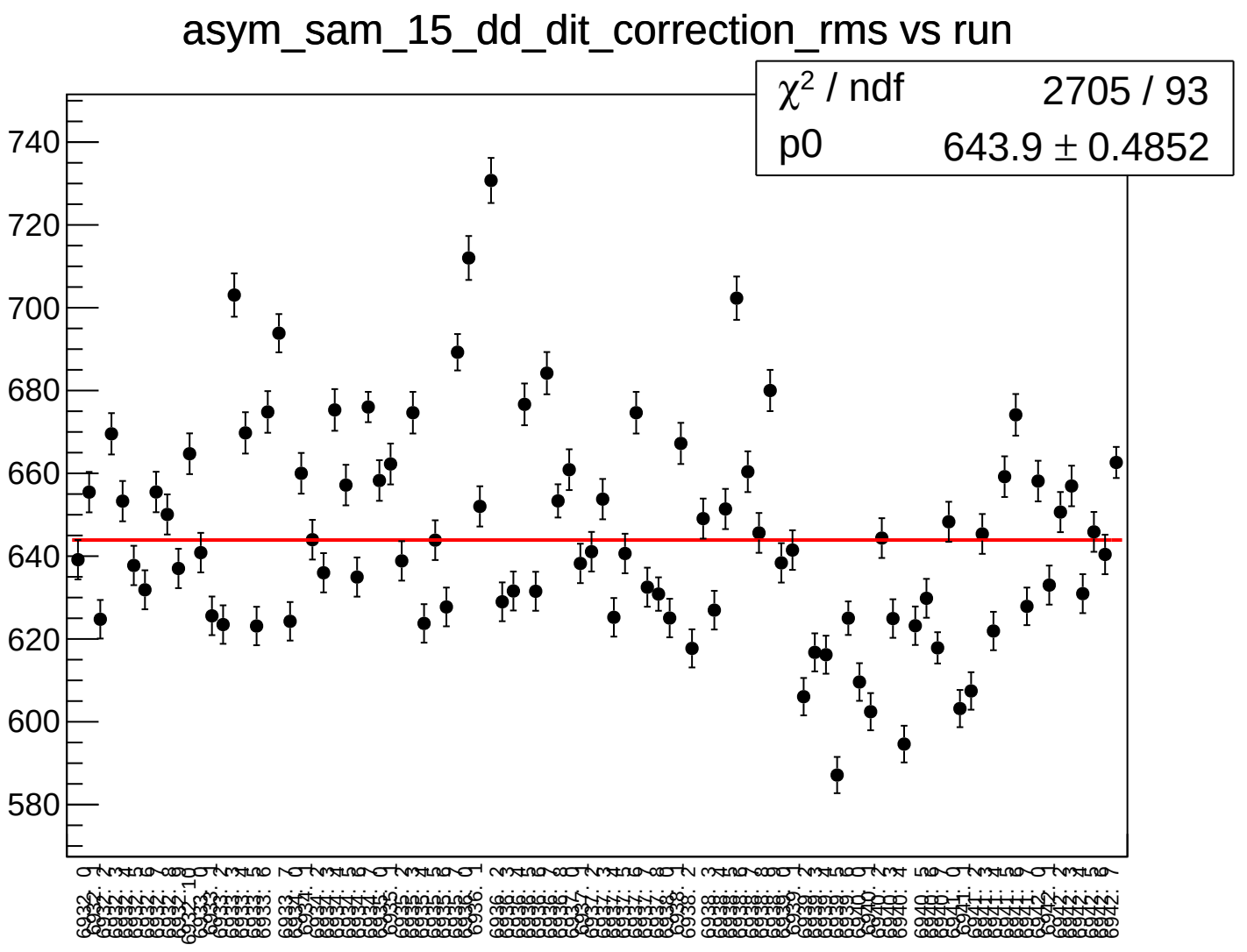

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 2963 / 93
p0 621.5 ± 0.4684
720
700
680
660
640
620
600
580
560

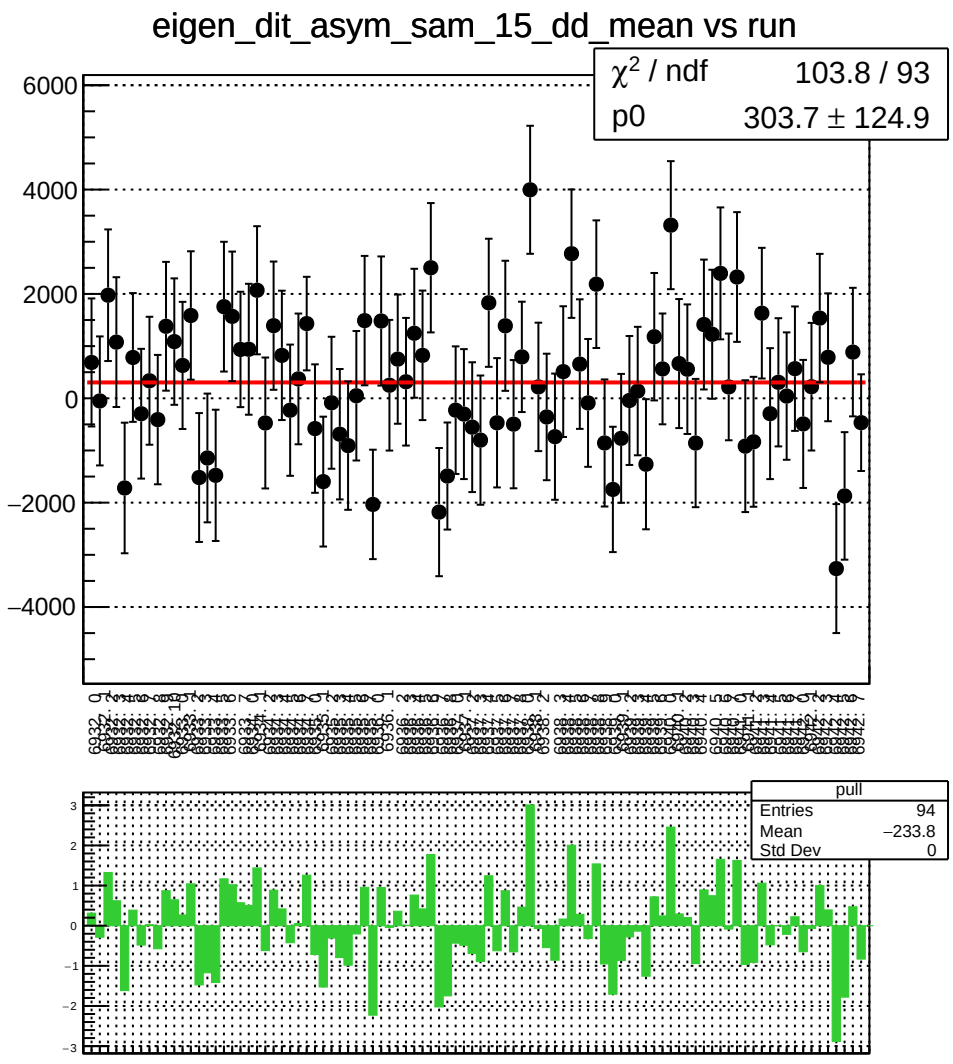

dit_asym_sam_15_dd_mean vs run
χ² / ndf 103.8 / 93
p0 303.7 ± 124.9
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −233.8
Std Dev 0
3
2
1
0
−1
−2
−3

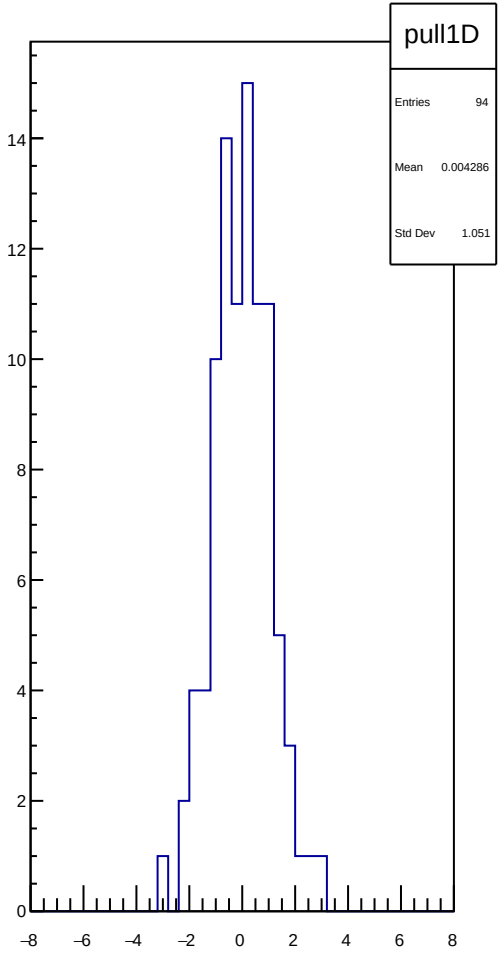

pull1D
Entries 94
Mean 0.004286
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

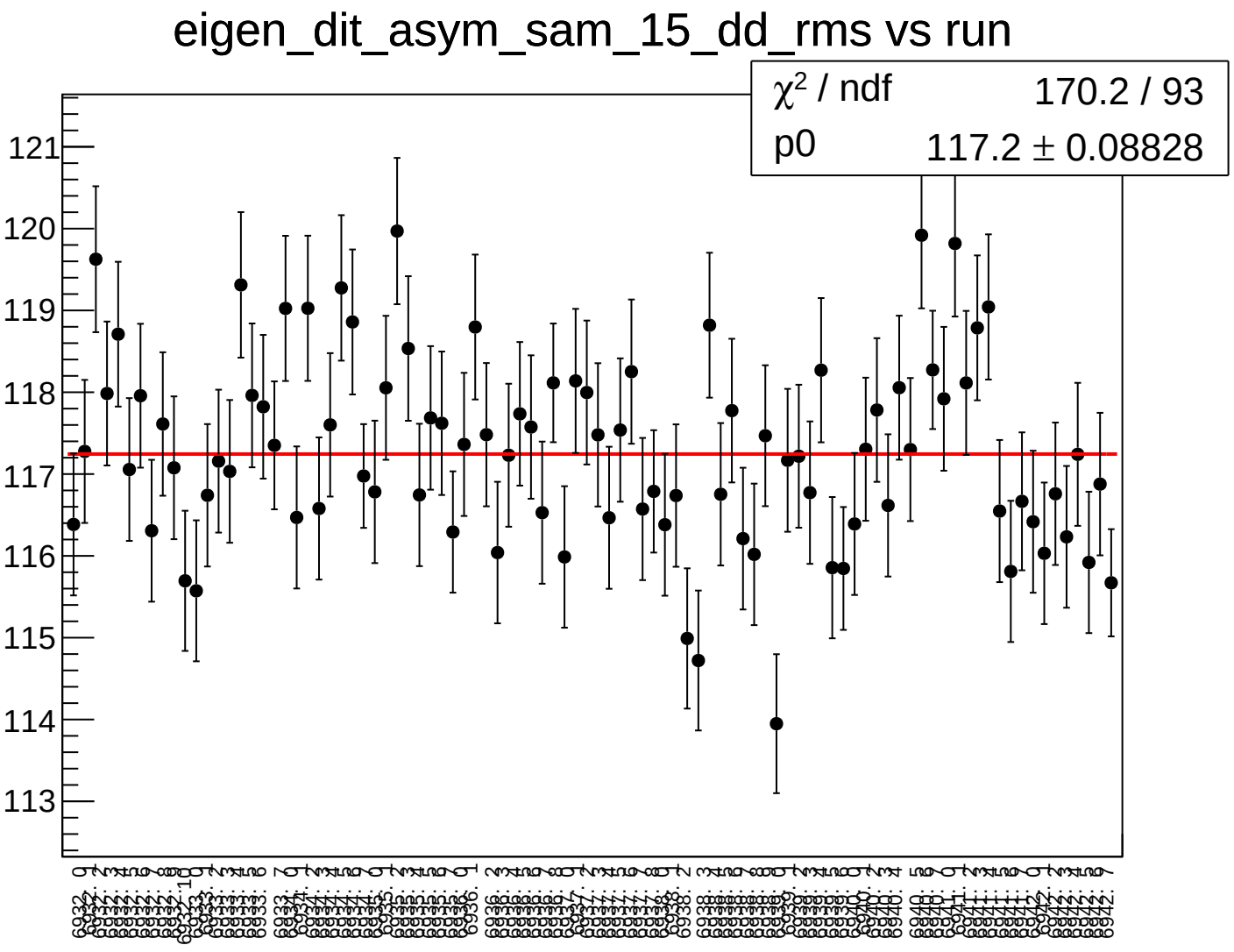

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 170.2 / 93
p0 117.2 ± 0.08828
121
120
119
118
117
116
115
114
113

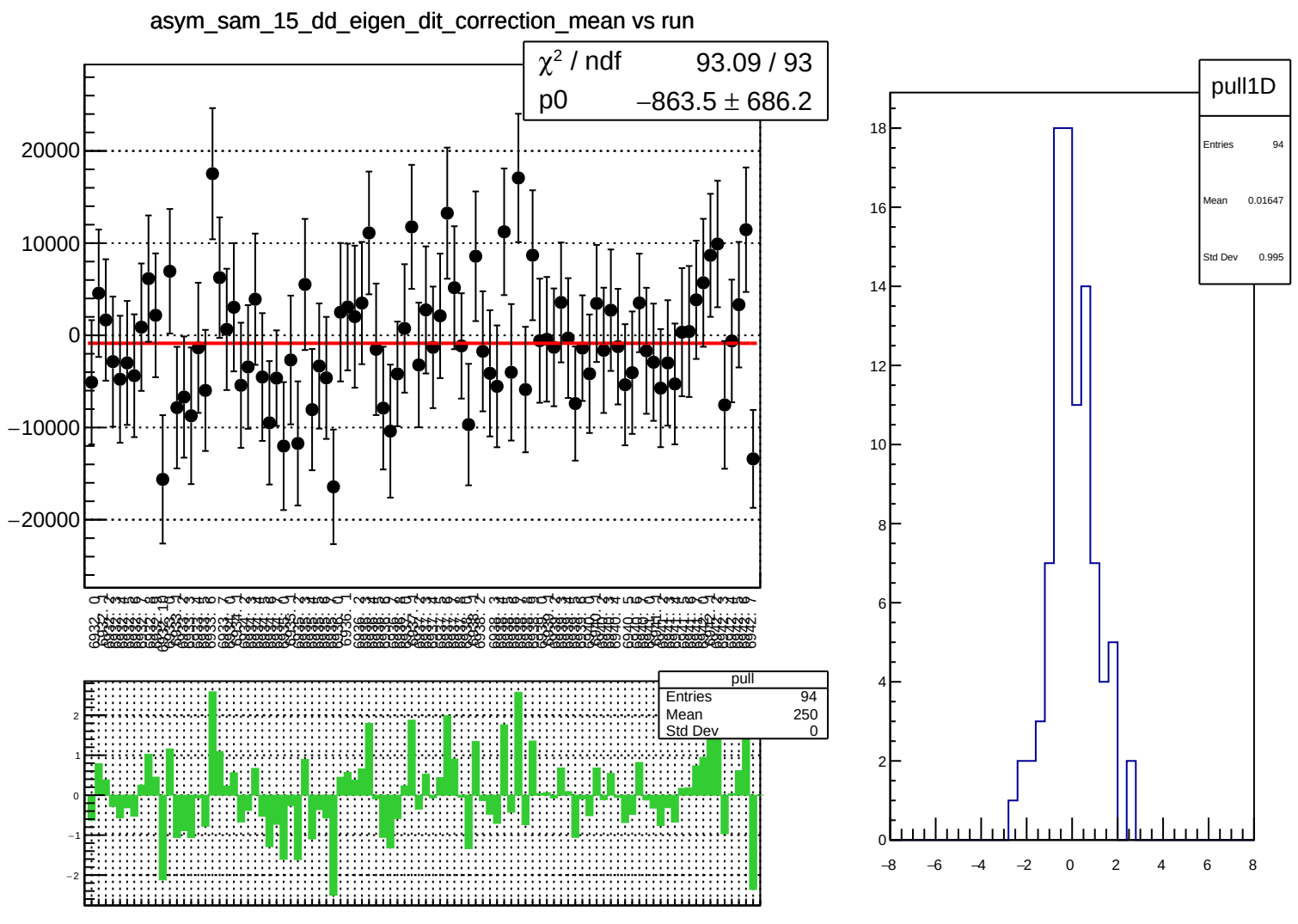

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 93.09 / 93
p0 −863.5 ± 686.2
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 250
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01647
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

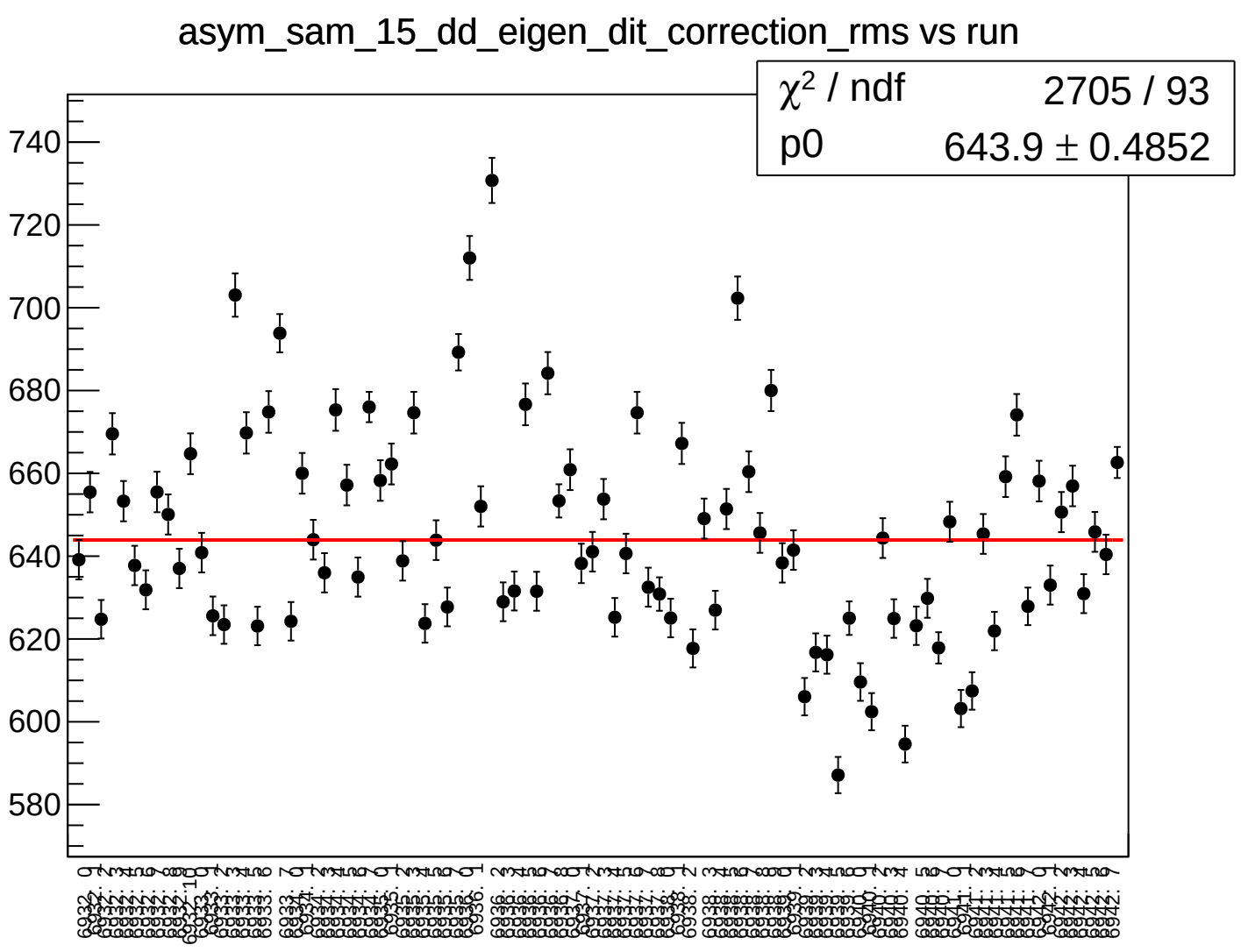

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 2705 / 93
p0 643.9 ± 0.4852
740
720
700
680
660
640
620
600
580

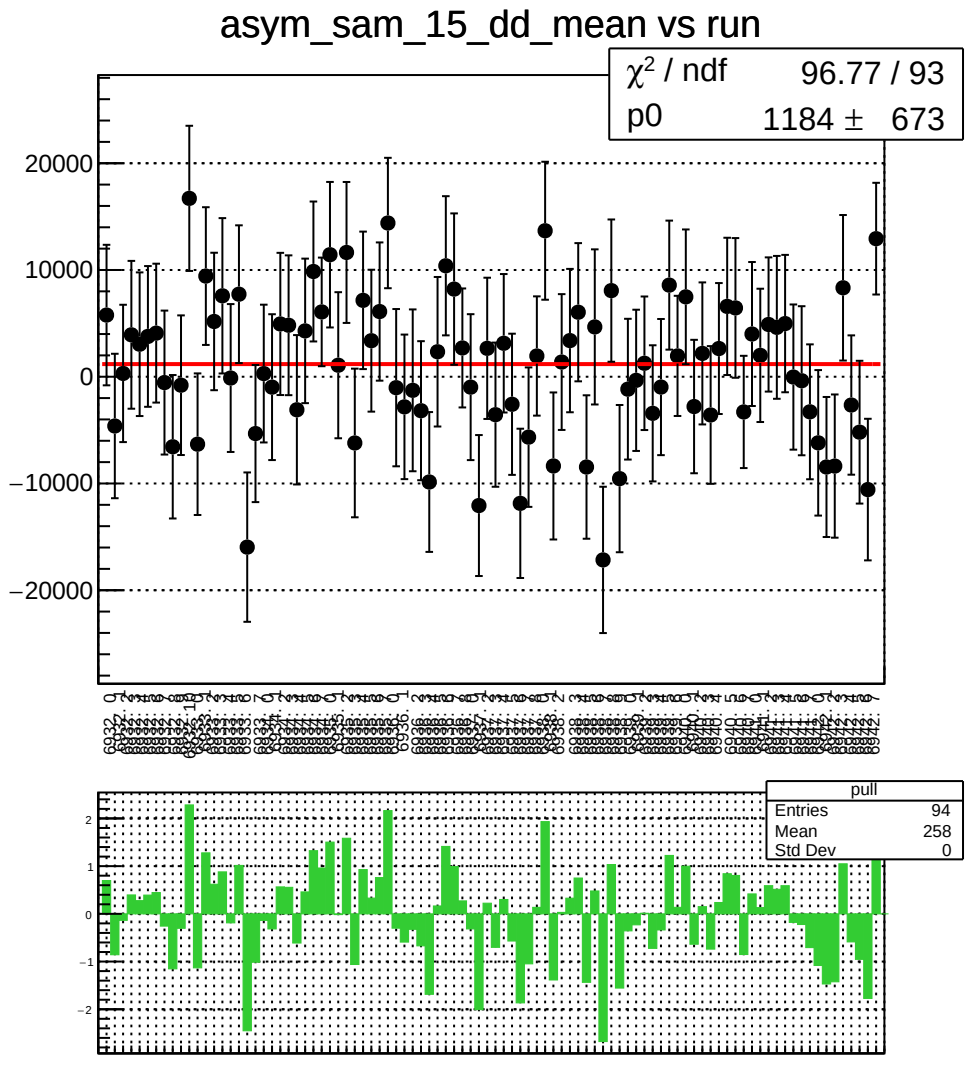

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 103.8 / 93
p0 303.7 ± 124.9
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −233.8
Std Dev 0
3
2
1
0
−1
−2
−3

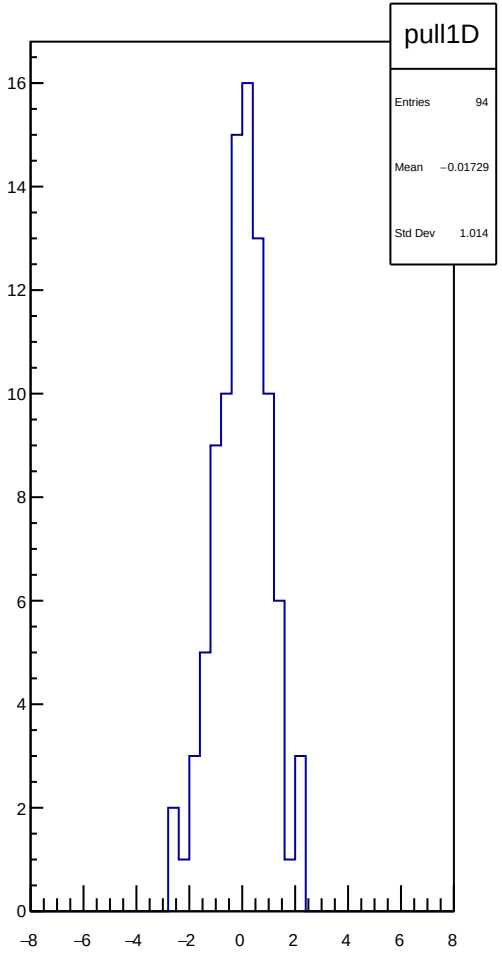

pull1D
Entries 94
Mean 0.004286
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

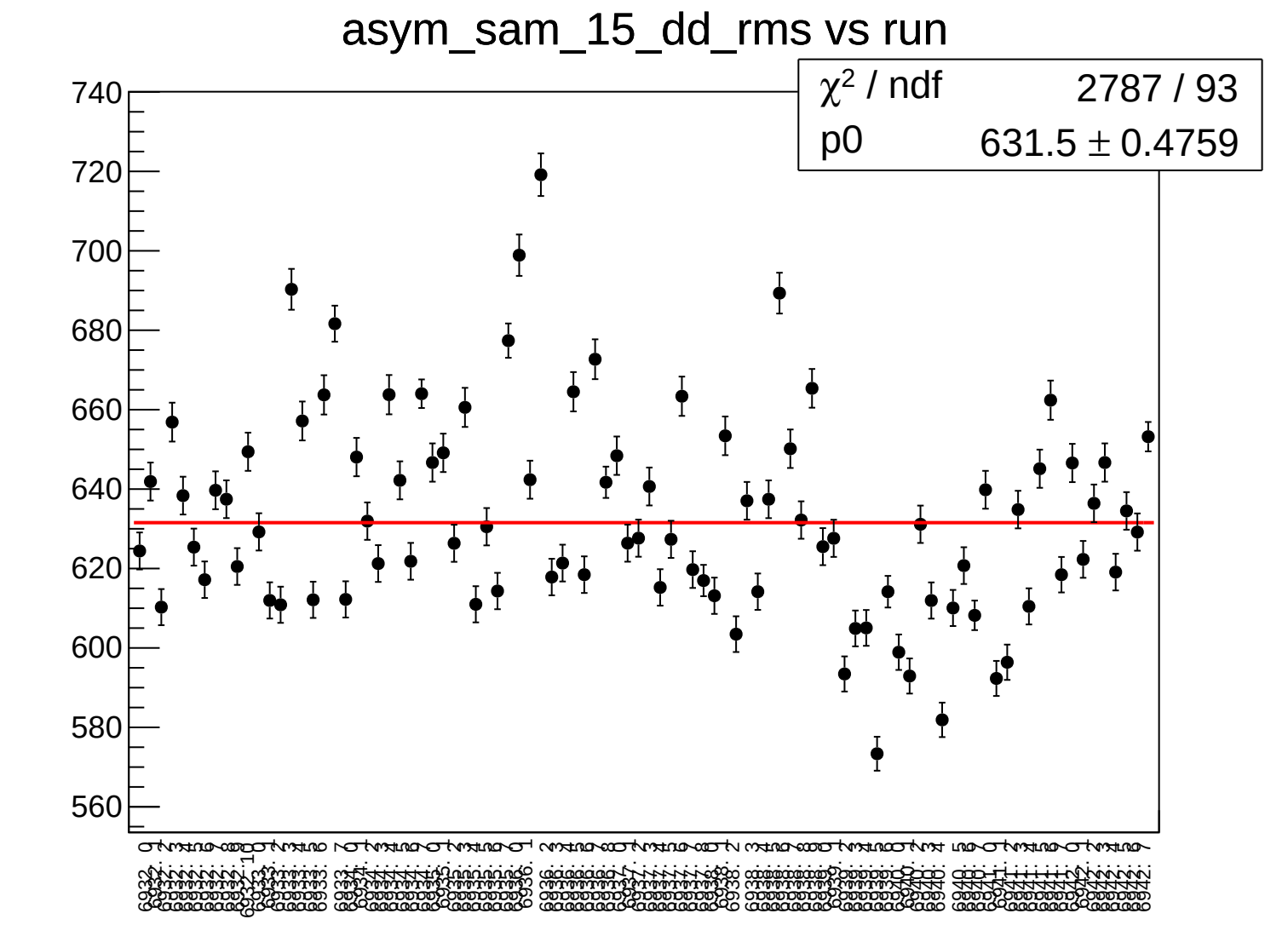

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 170.2 / 93
p0 117.2 ± 0.08828
121
120
119
118
117
116
115
114
113

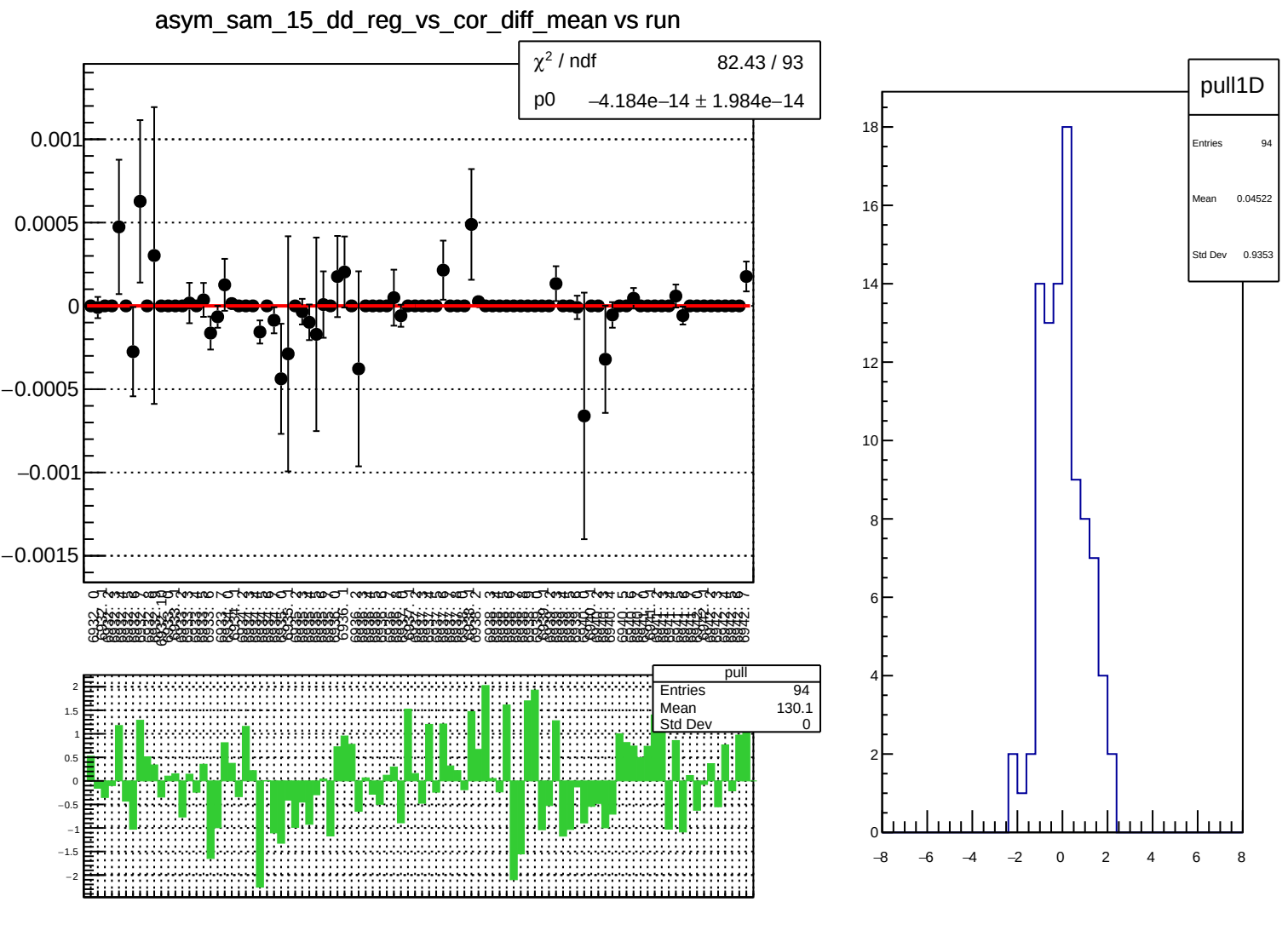

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.09 / 93
p0 −863.5 ± 686.2
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 250
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01647
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

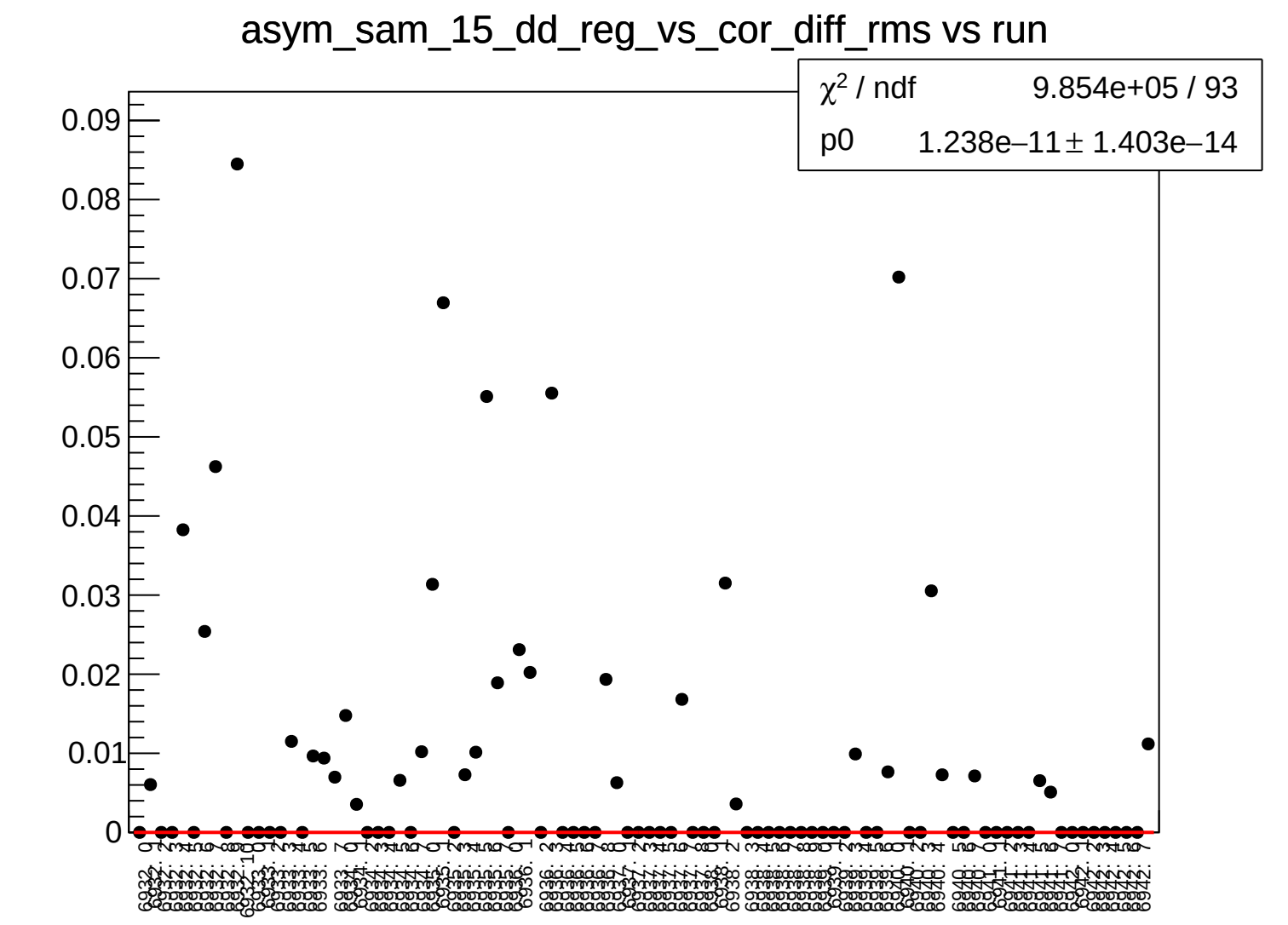

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 2705 / 93
p0 643.9 ± 0.4852
740
720
700
680
660
640
620
600
580

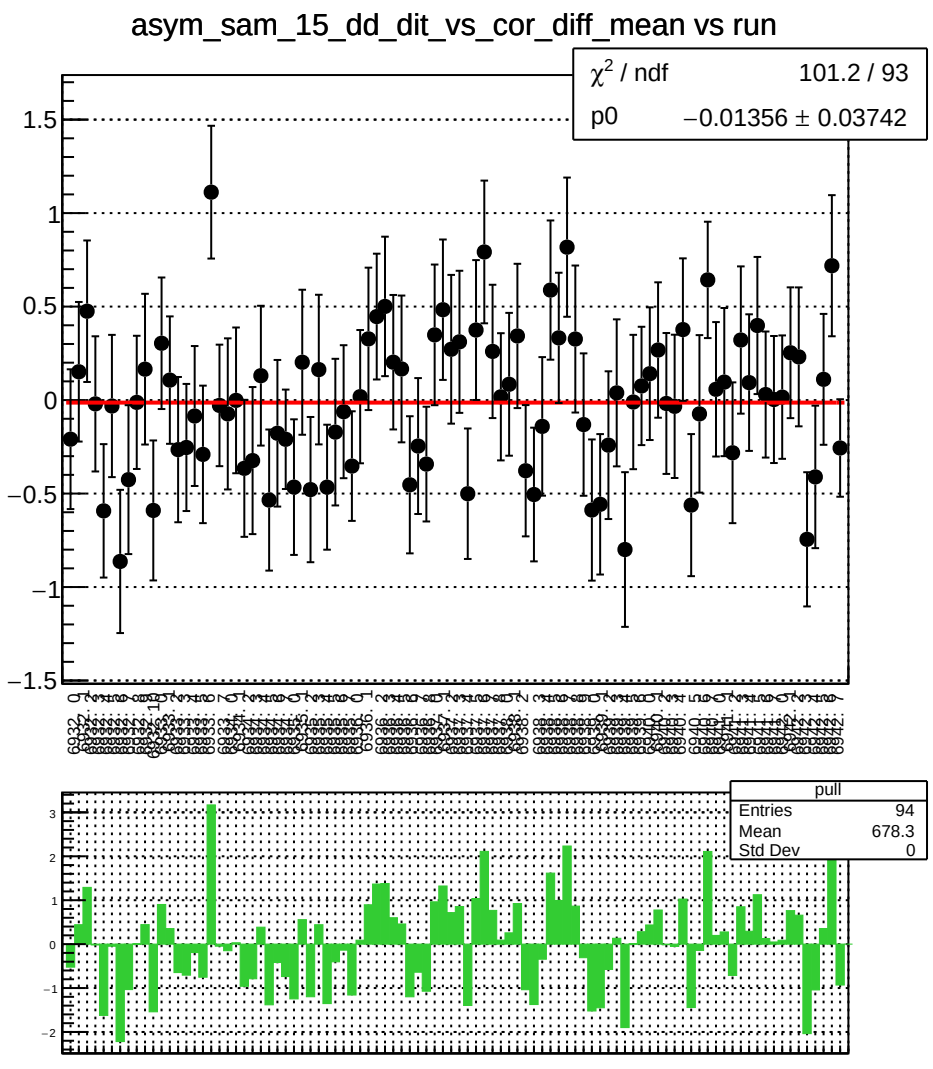

asym_sam_15_dd_mean vs run
χ² / ndf 96.77 / 93
p0 1184 ± 673
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 258
Std Dev 0
2
1
0
−1
−2

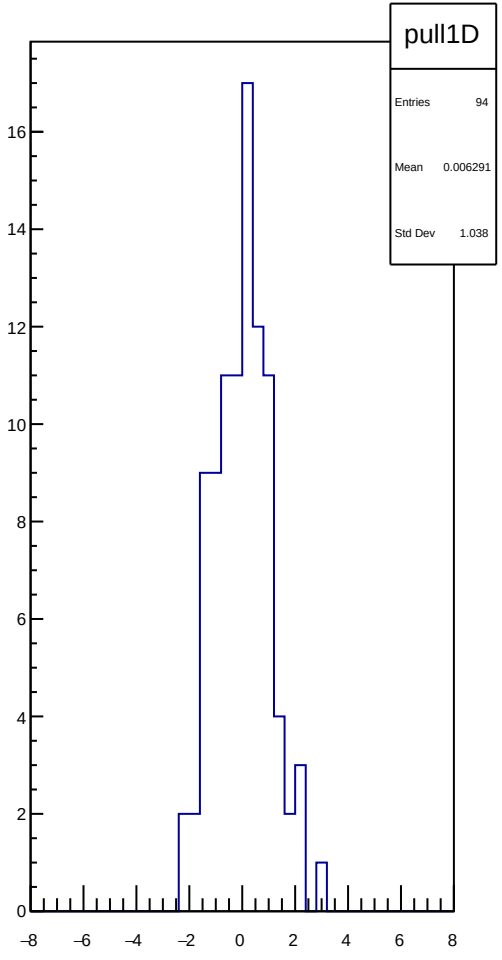

pull1D
Entries 94
Mean −0.01729
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

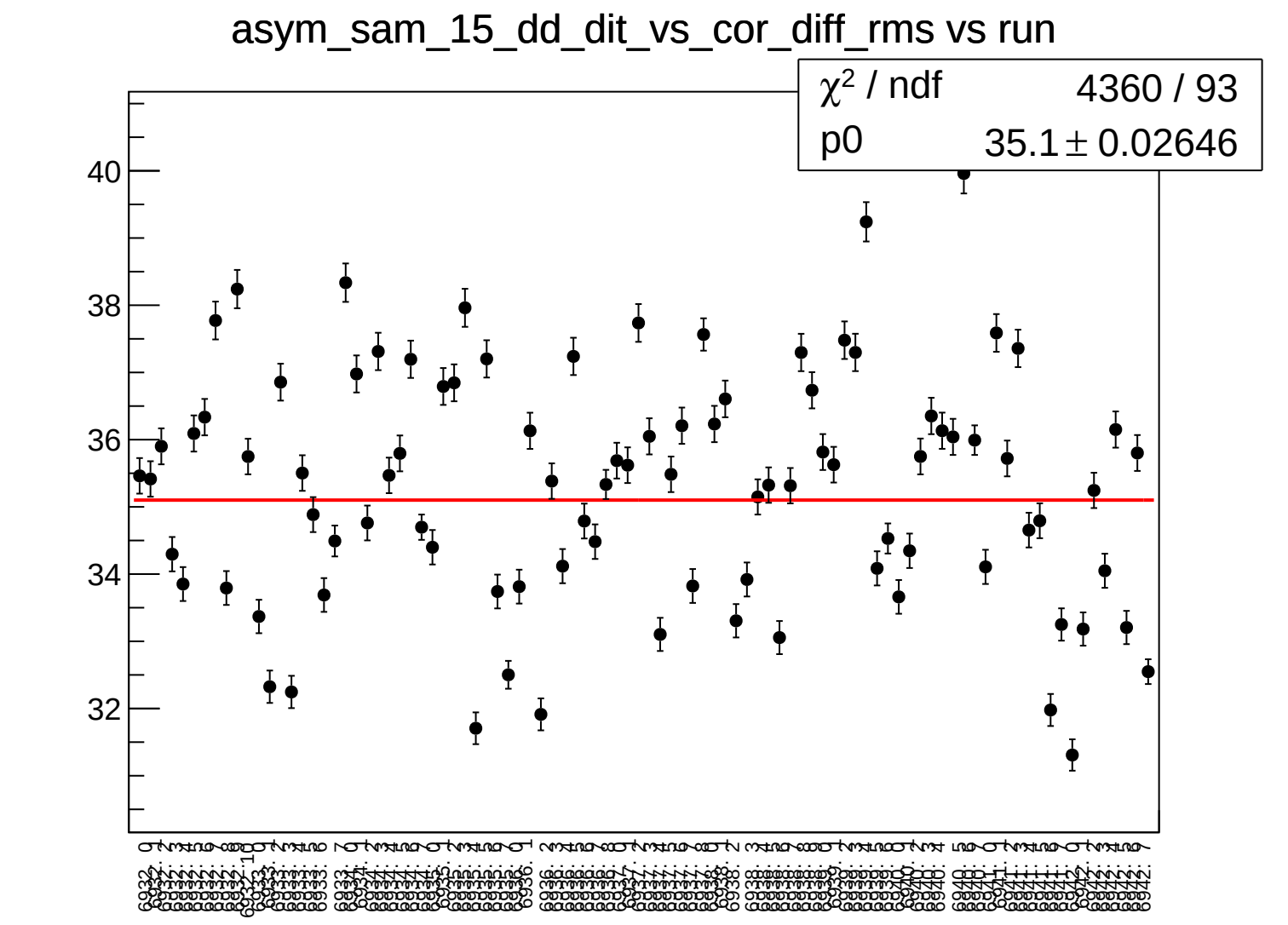

asym_sam_15_dd_rms vs run
χ^2 / ndf 2787 / 93
p0 631.5 ± 0.4759
740
720
700
680
660
640
620
600
580
560

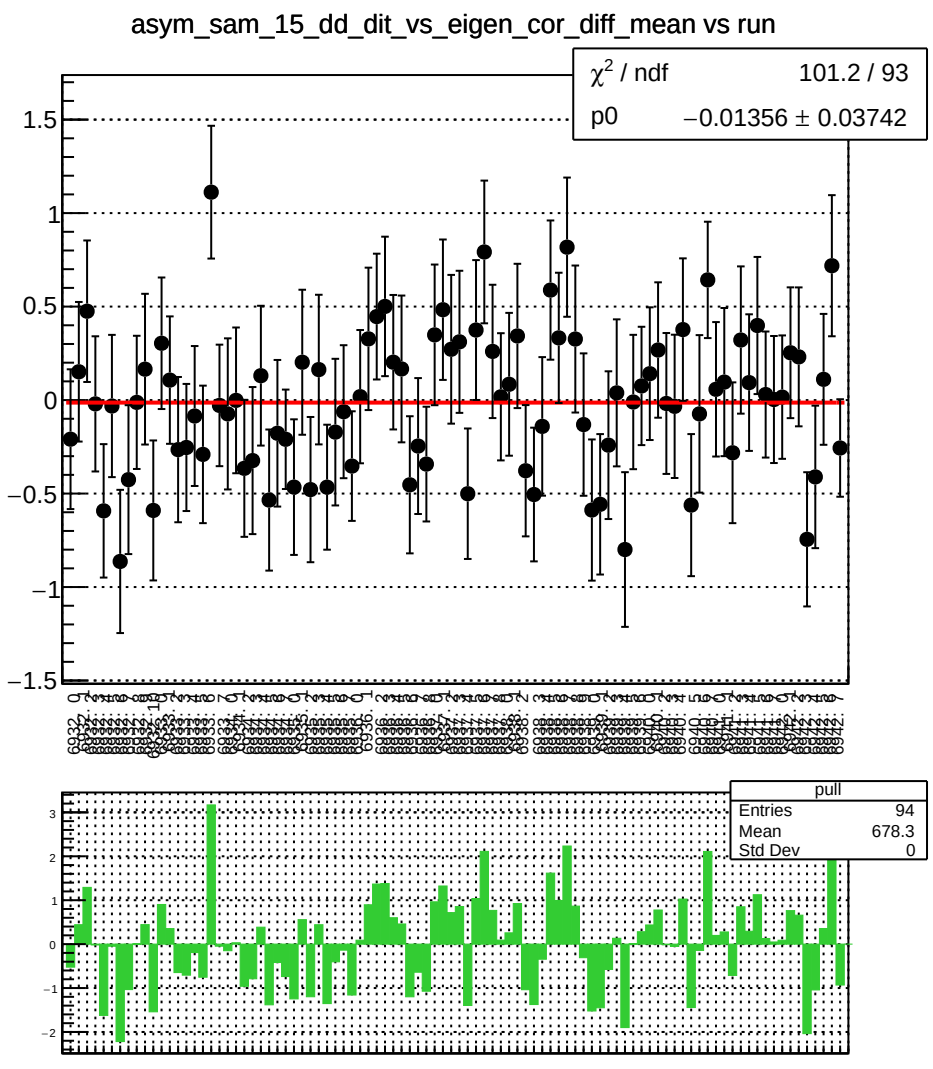

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.43 / 93
p0 −4.184e−14 ± 1.984e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 130.1
Std Dev 0
pull1D
Entries 94
Mean 0.04522
Std Dev 0.9353

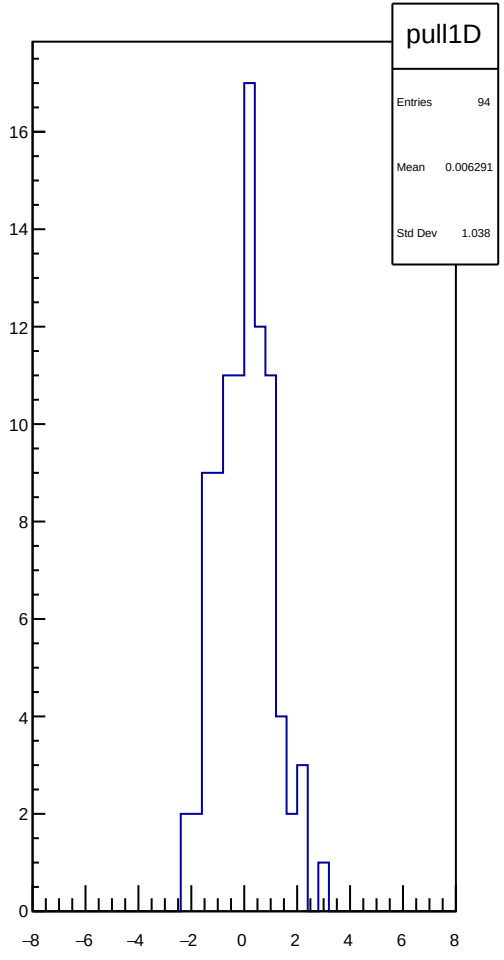

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.854e+05 / 93
p0 1.238e−11 ± 1.403e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

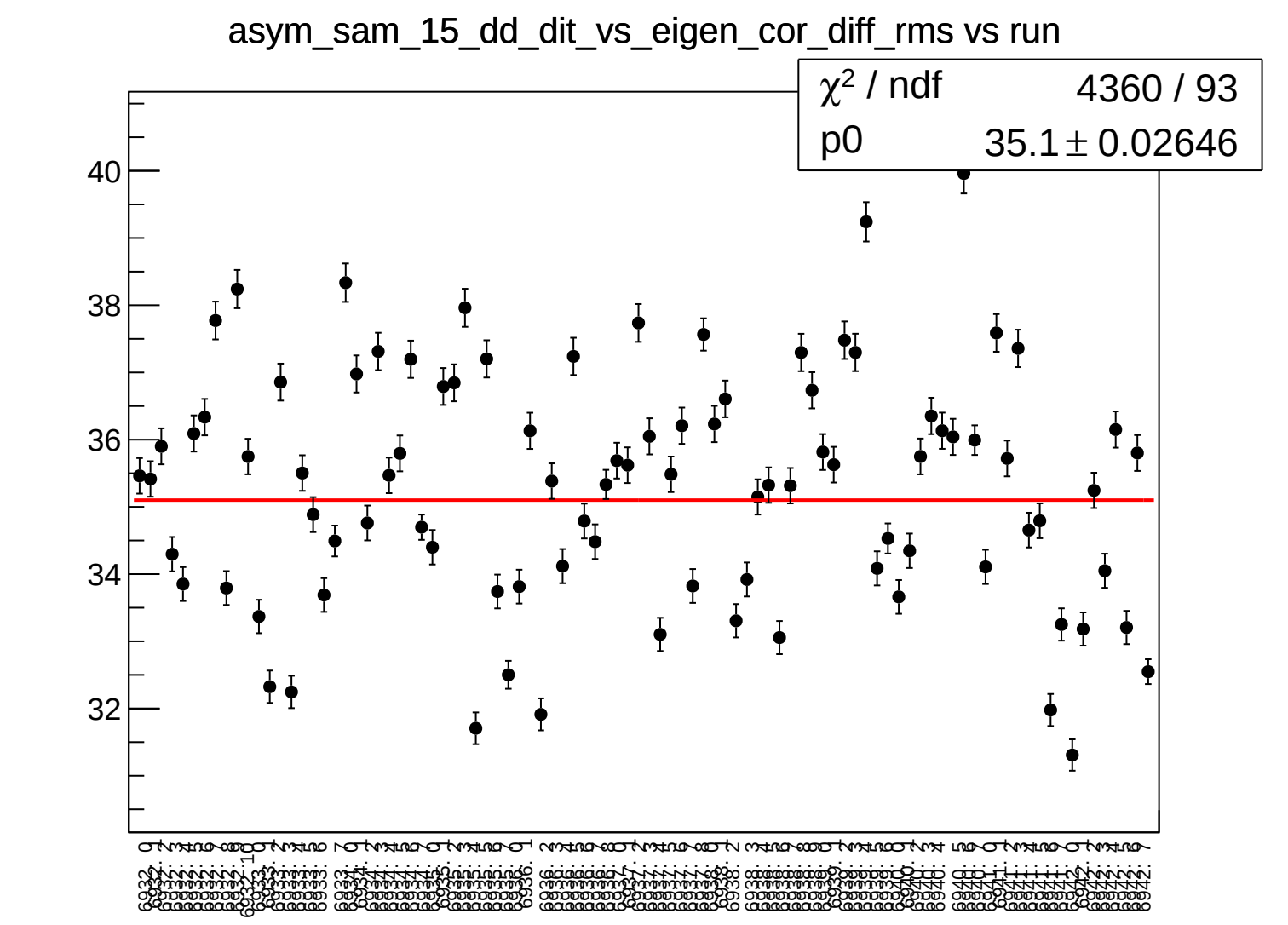

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 93
p0 −0.01356 ± 0.03742
pull
Entries 94
Mean 678.3
Std Dev 0

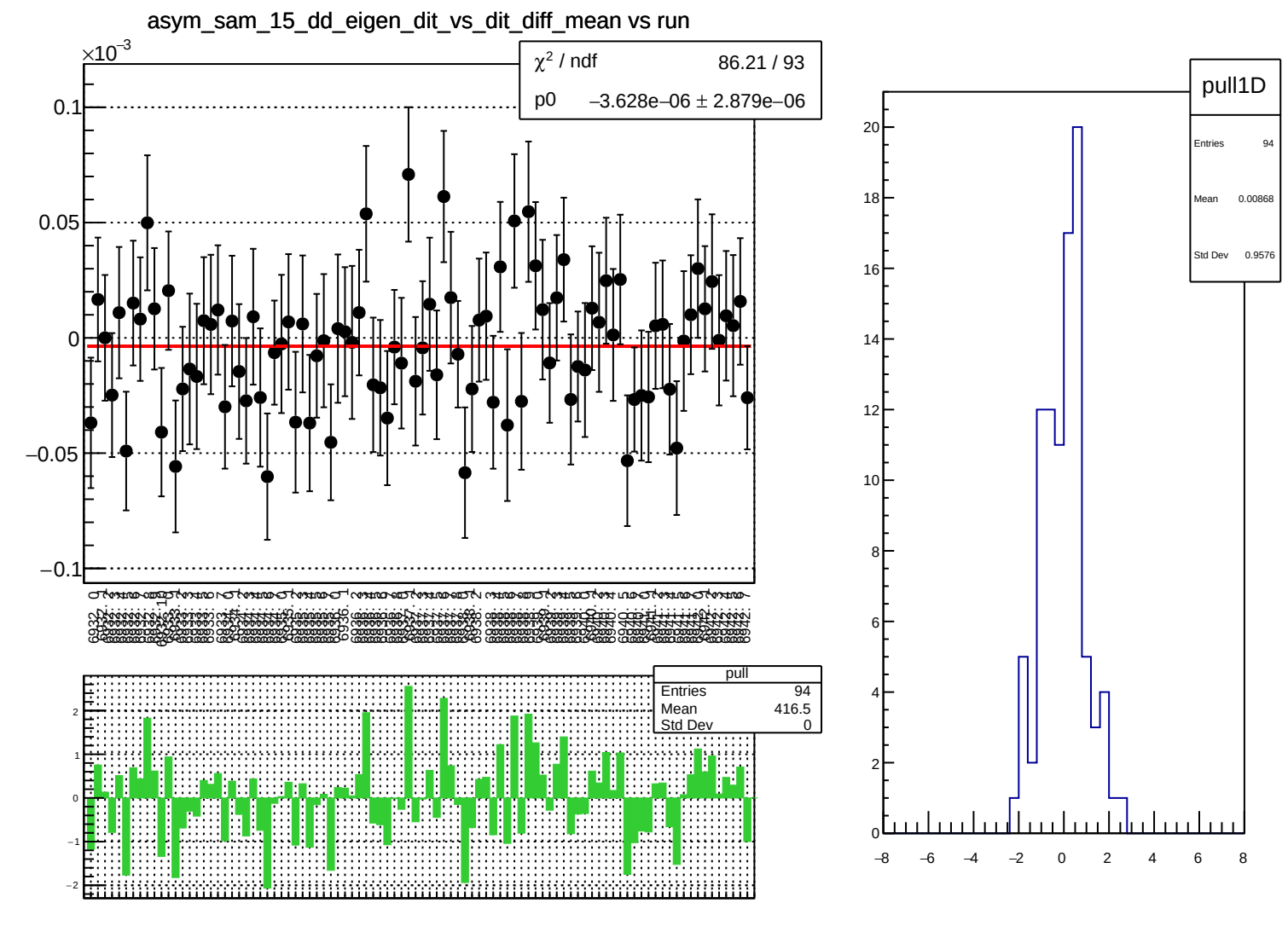

pull1D
Entries 94
Mean 0.006291
Std Dev 1.038

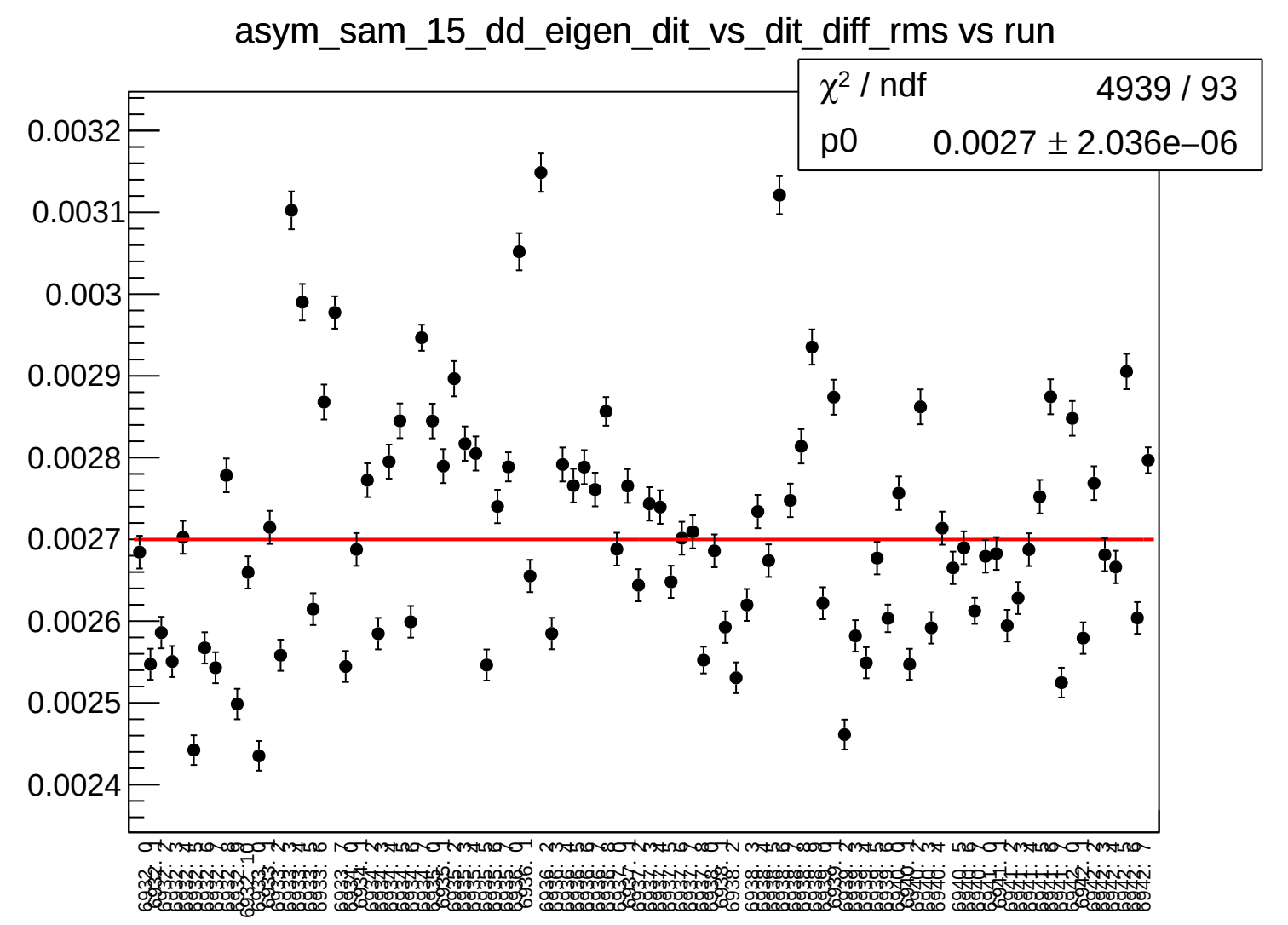

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4360 / 93
p0 35.1 ± 0.02646
40
38
36
34
32

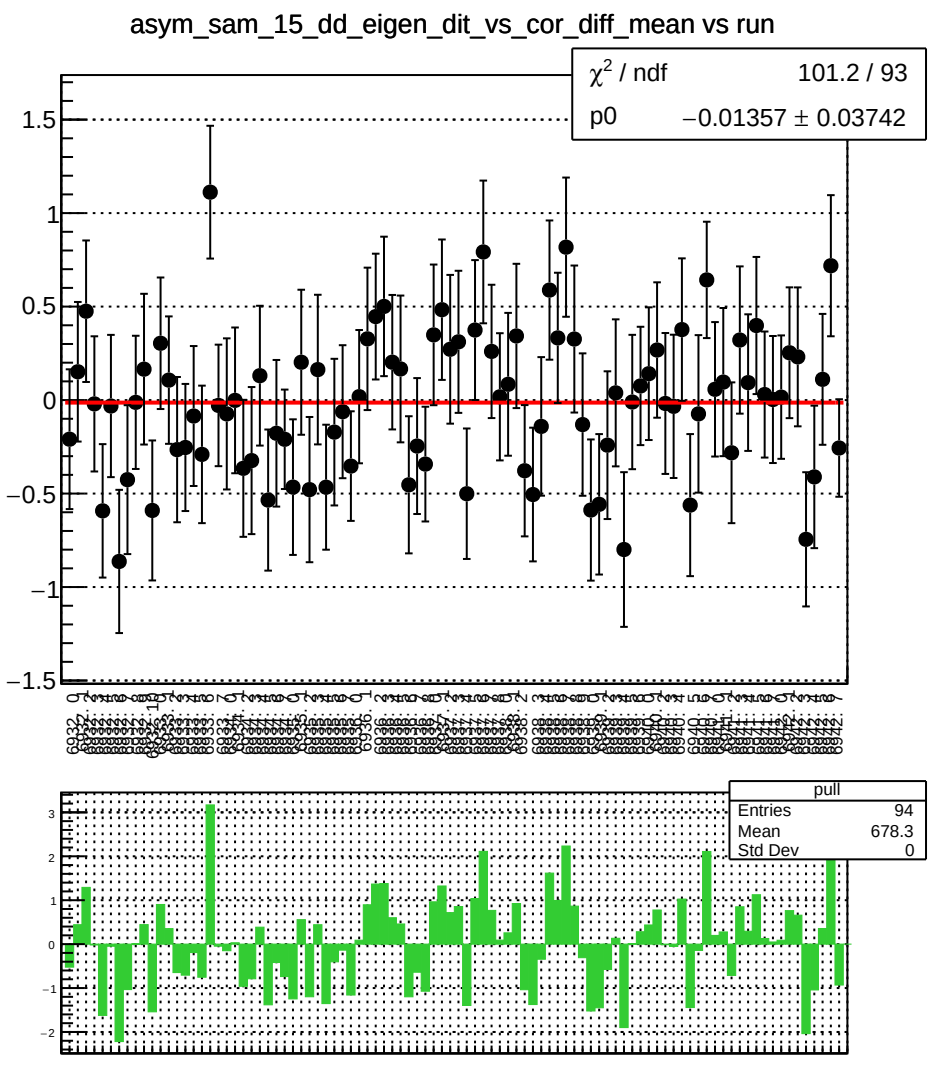

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 93
p0 −0.01356 ± 0.03742
pull
Entries 94
Mean 678.3
Std Dev 0

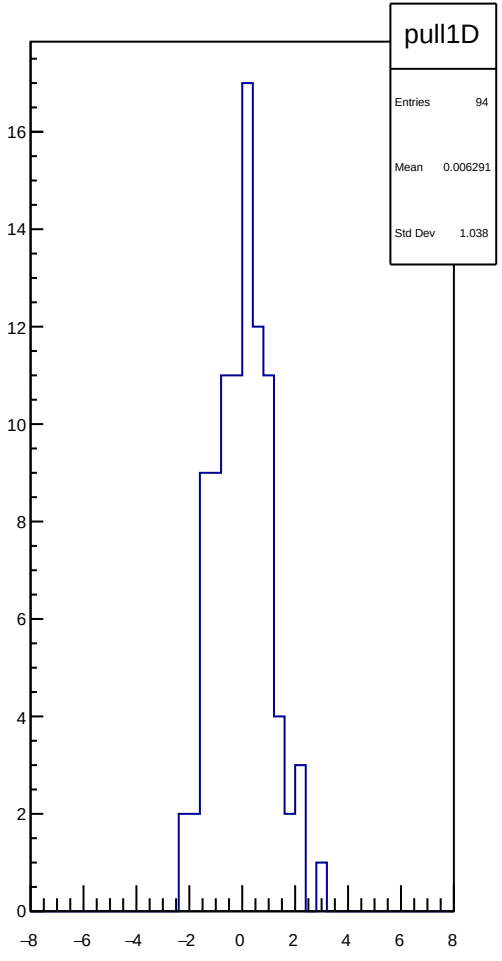

pull1D
Entries 94
Mean 0.006291
Std Dev 1.038

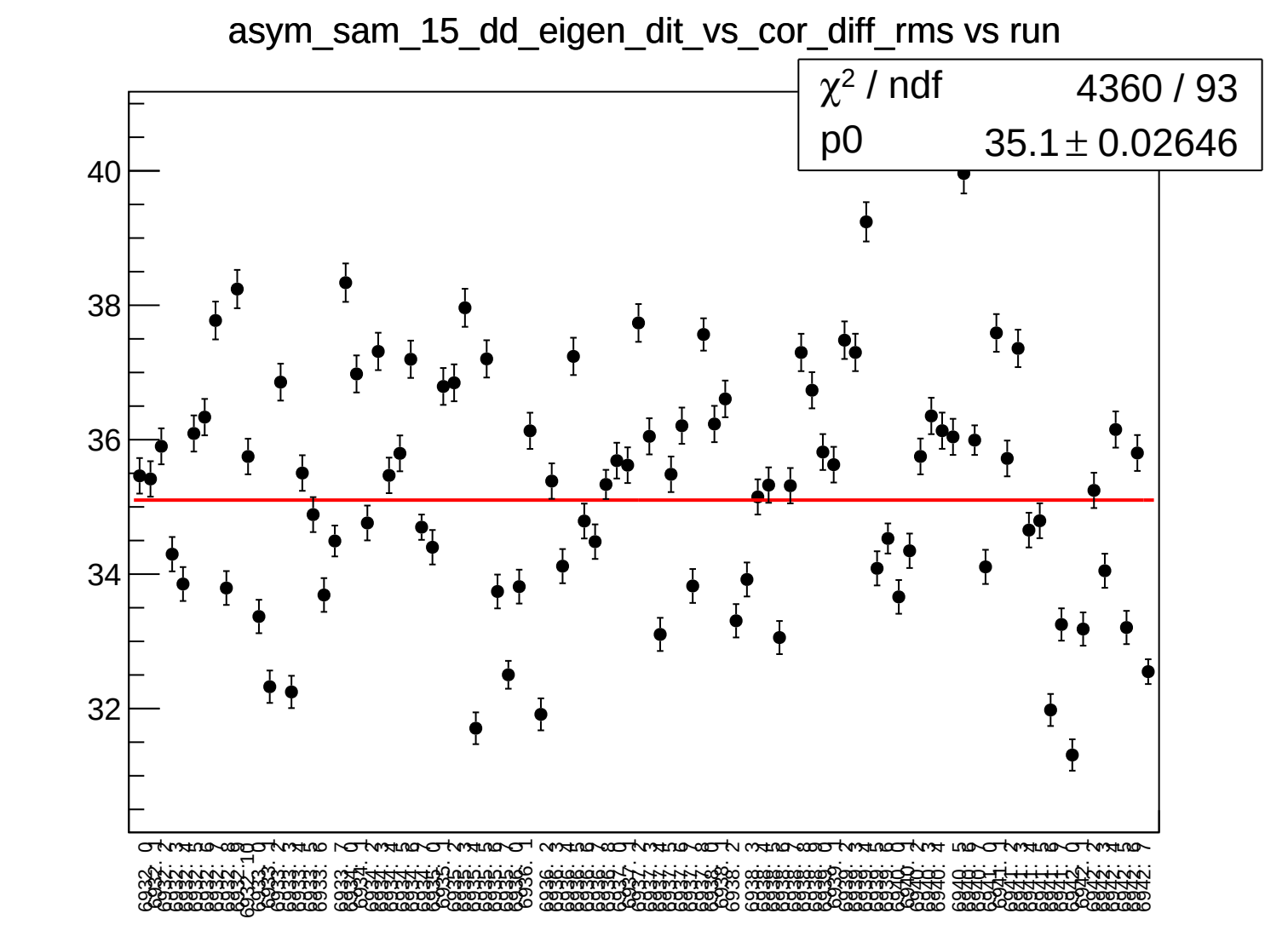

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4360 / 93
p0 35.1 ± 0.02646
40
38
36
34
32

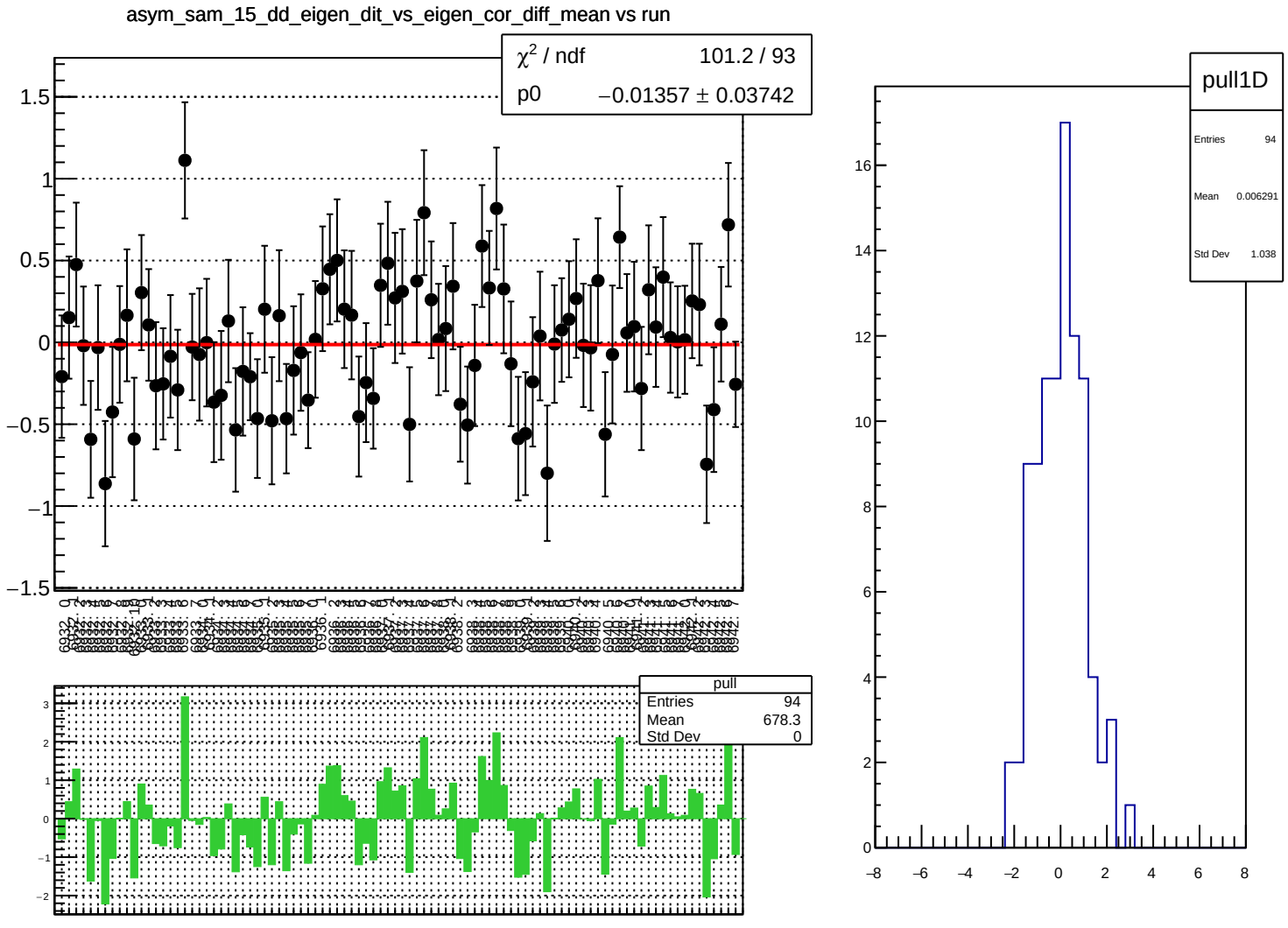

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.21 / 93
p0 −3.628e−06 ± 2.879e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 416.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.00868
Std Dev 0.9576
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

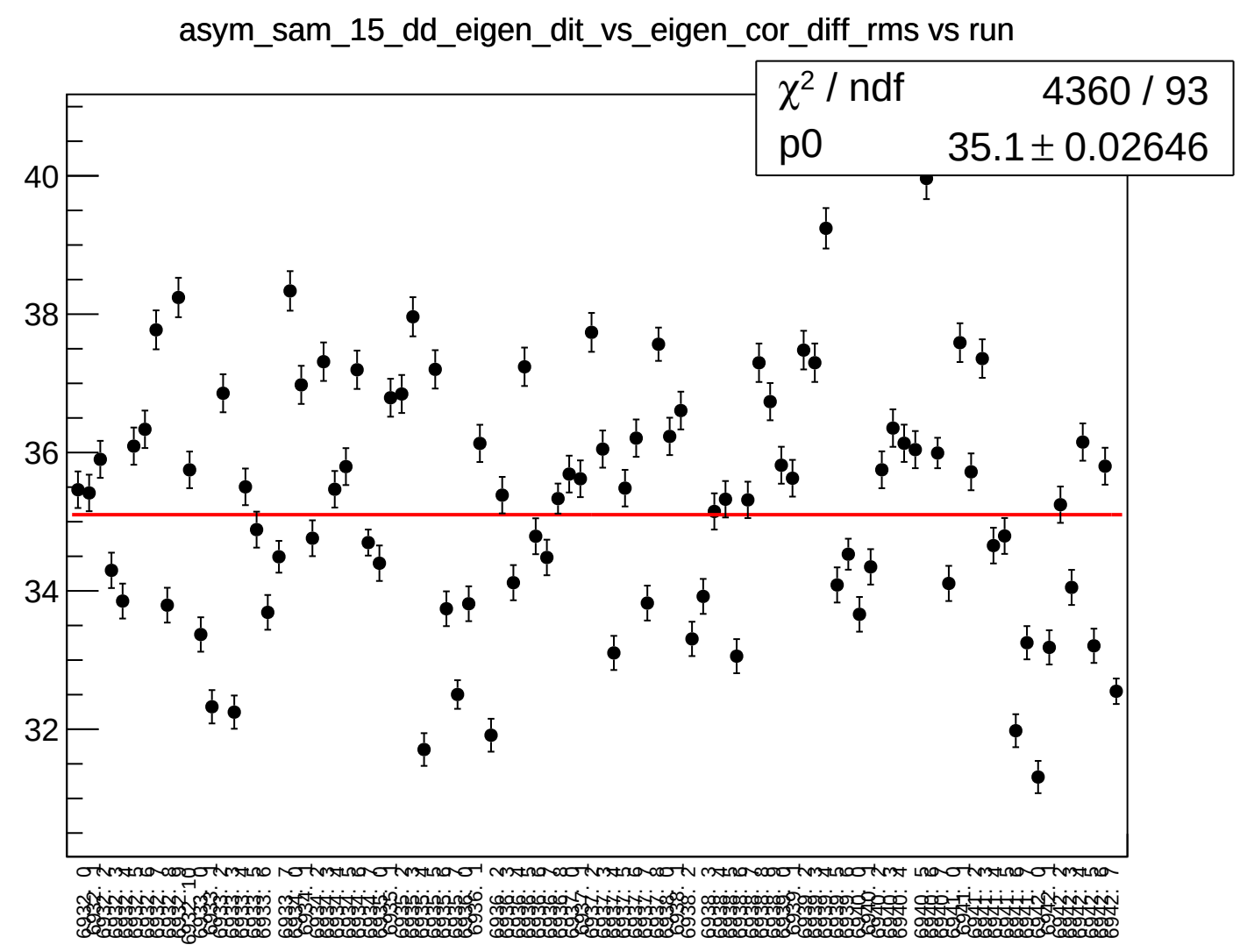

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4939 / 93
p0 0.0027 ± 2.036e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

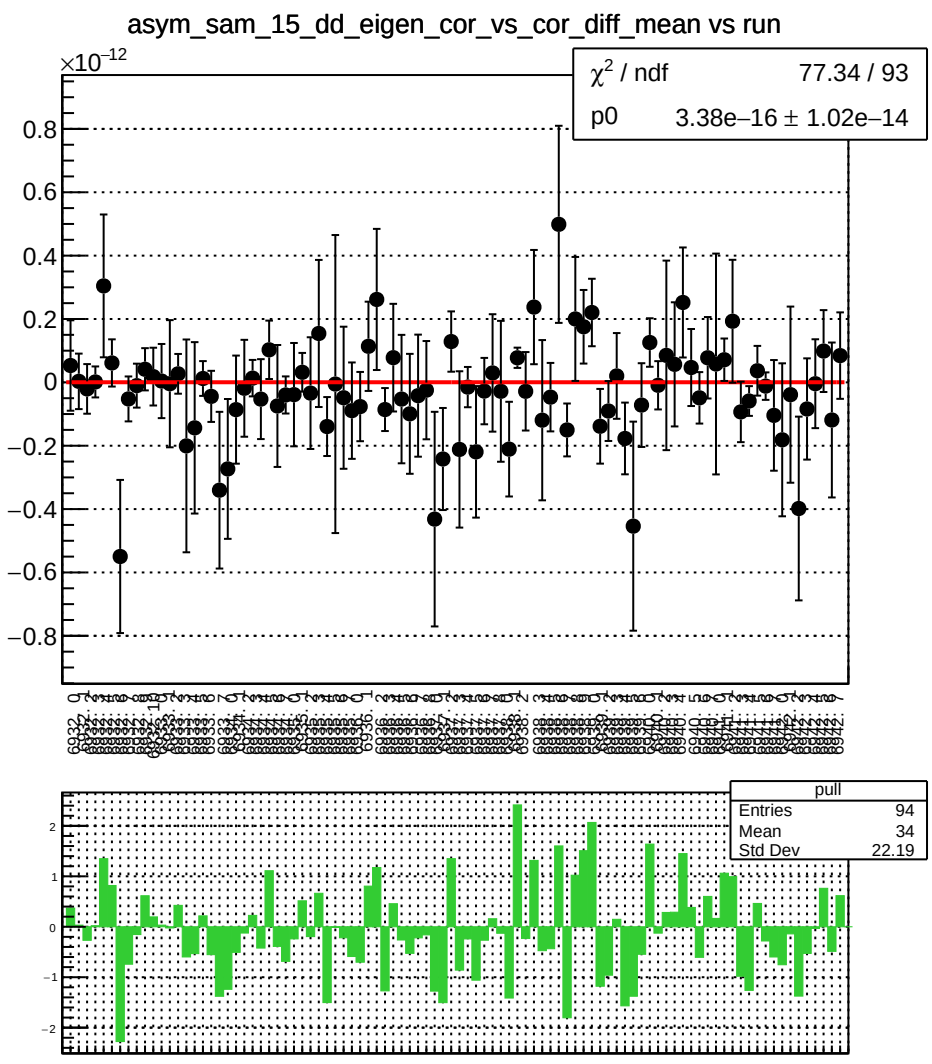

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.2 / 93
p0 −0.01357 ± 0.03742
pull
Entries 94
Mean 678.3
Std Dev 0

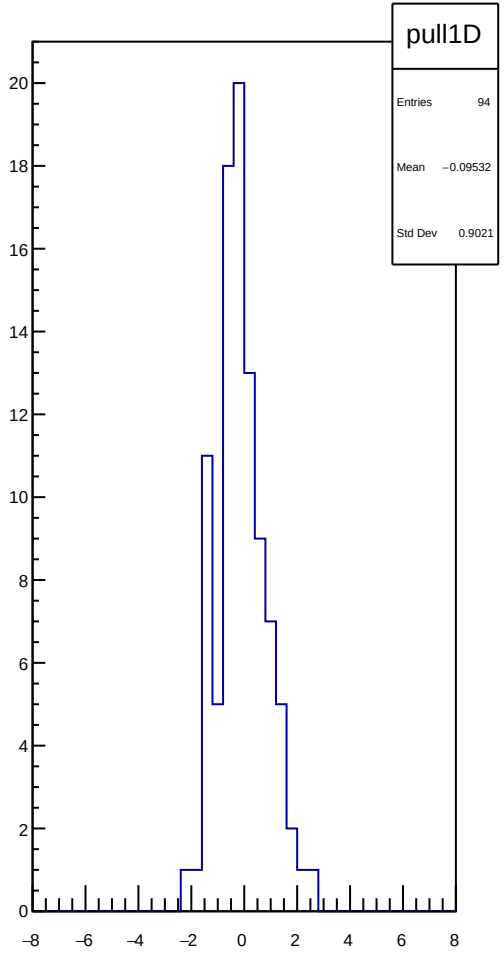

pull1D
Entries 94
Mean 0.006291
Std Dev 1.038

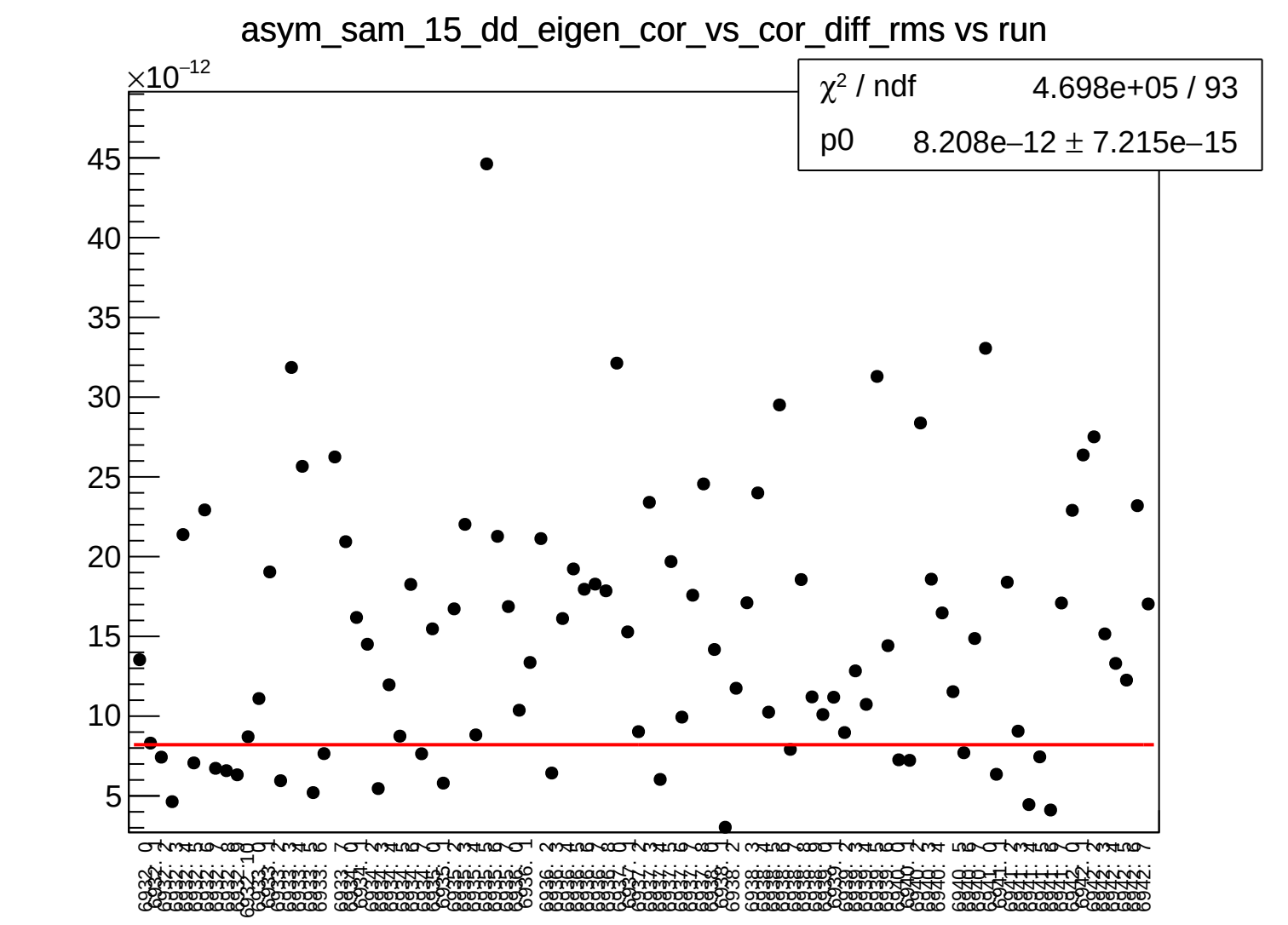

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4360 / 93
p0 35.1 ± 0.02646
40
38
36
34
32

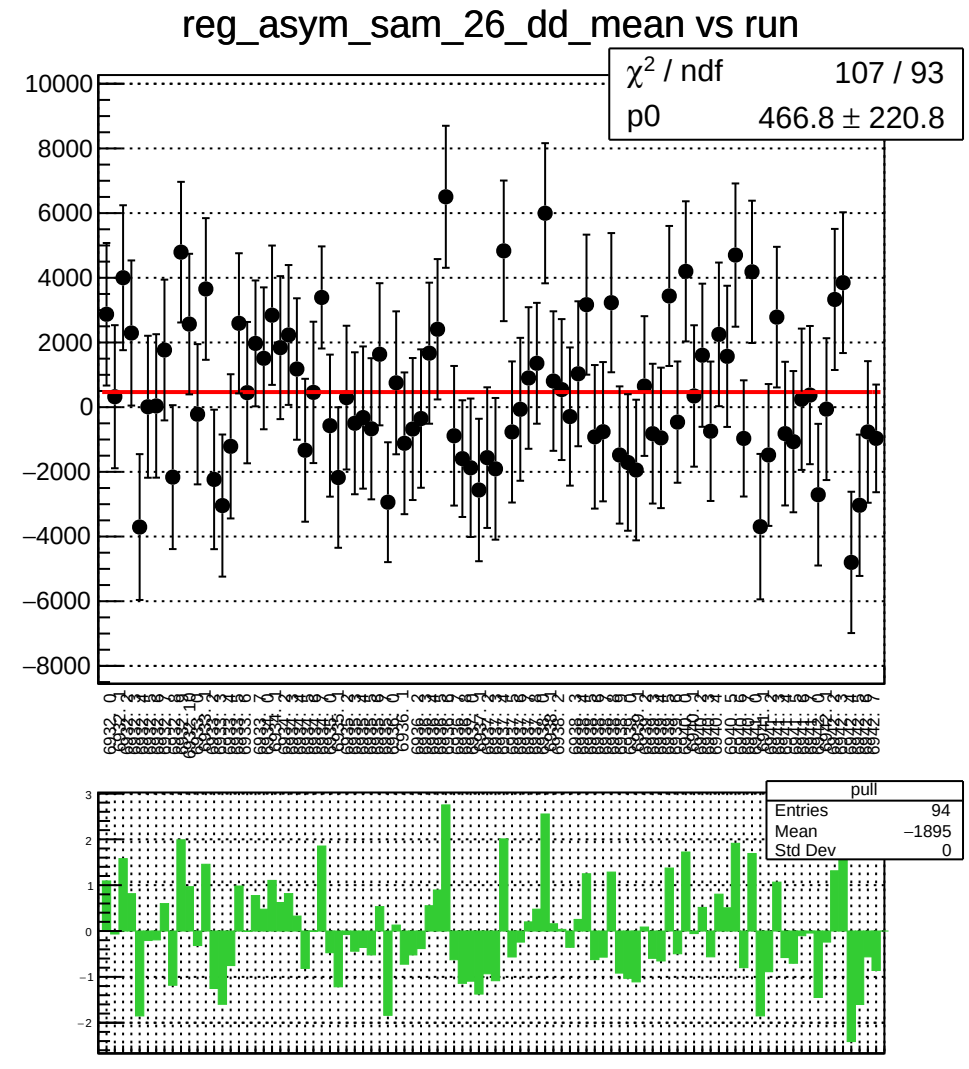

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.2 / 93
p0 −0.01357 ± 0.03742
pull
Entries 94
Mean 678.3
Std Dev 0
pull1D
Entries 94
Mean 0.006291
Std Dev 1.038

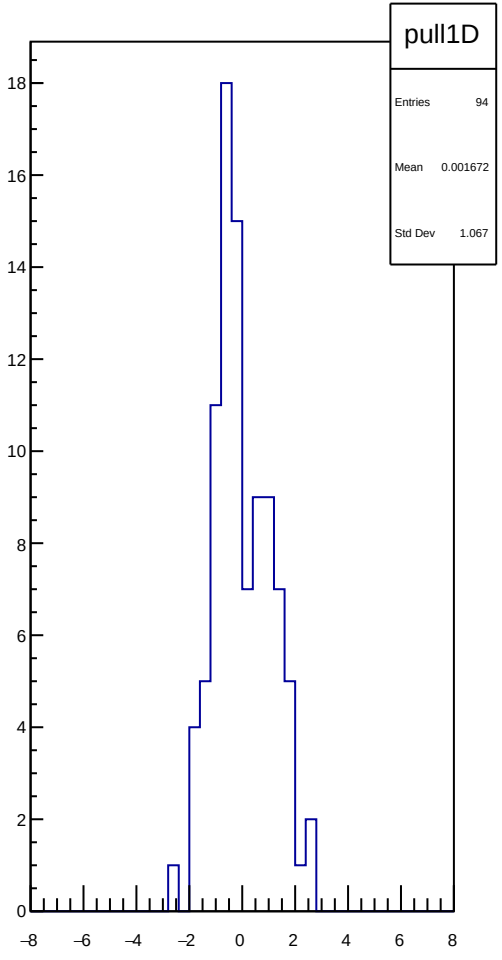

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4360 / 93
p0 35.1 ± 0.02646
40
38
36
34
32

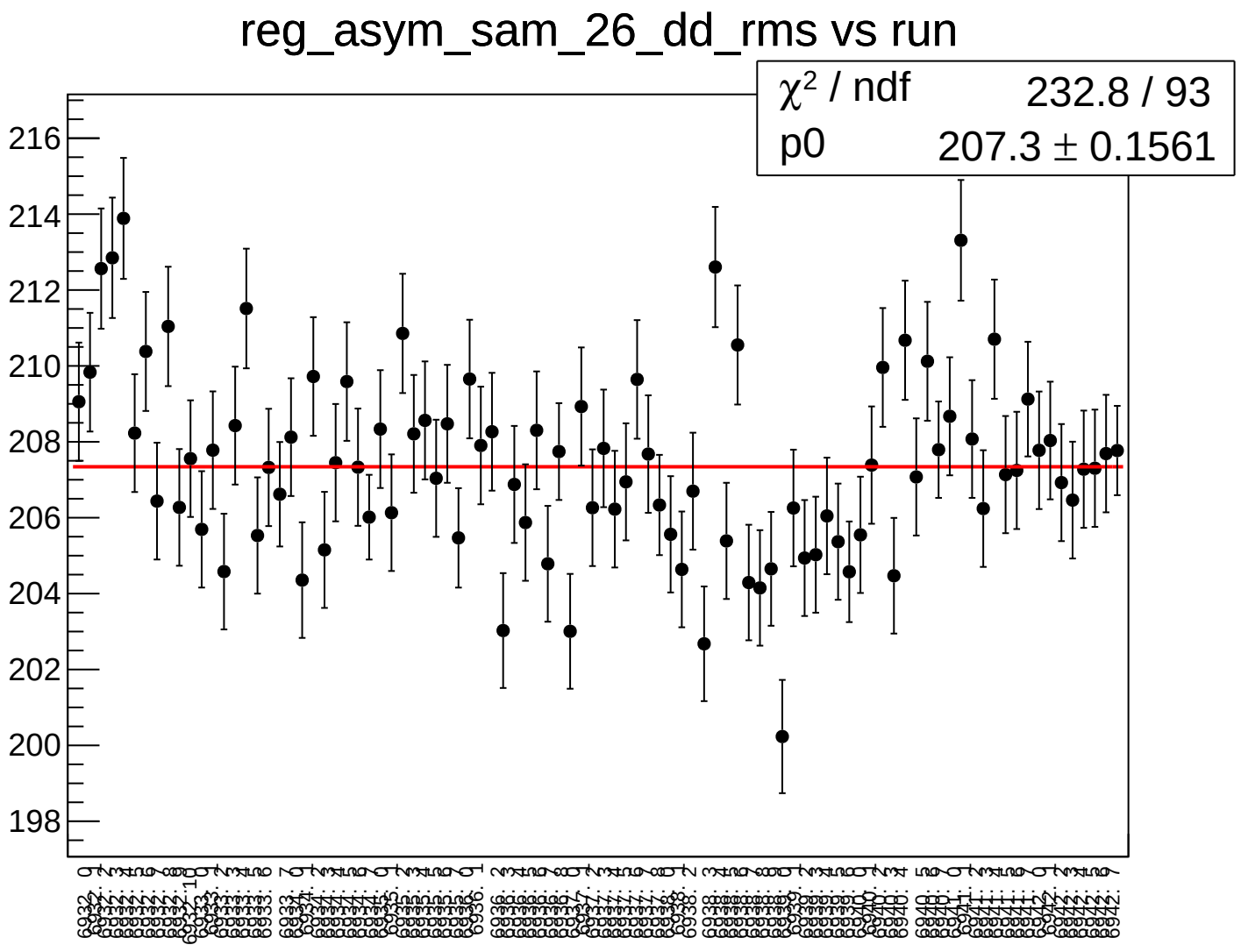

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.34 / 93
p0 3.38e−16 ± 1.02e−14
pull
Entries 94
Mean 34
Std Dev 22.19

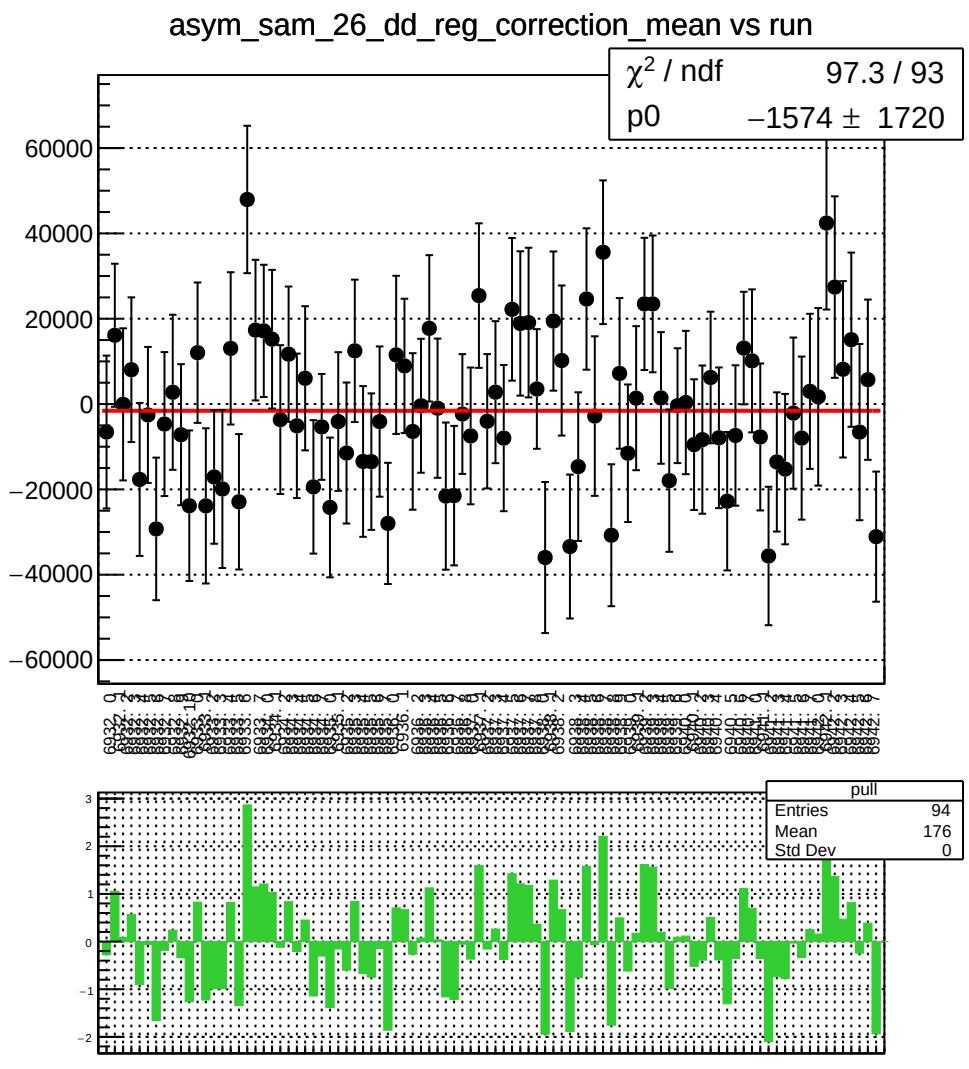

pull1D
Entries 94
Mean −0.09532
Std Dev 0.9021

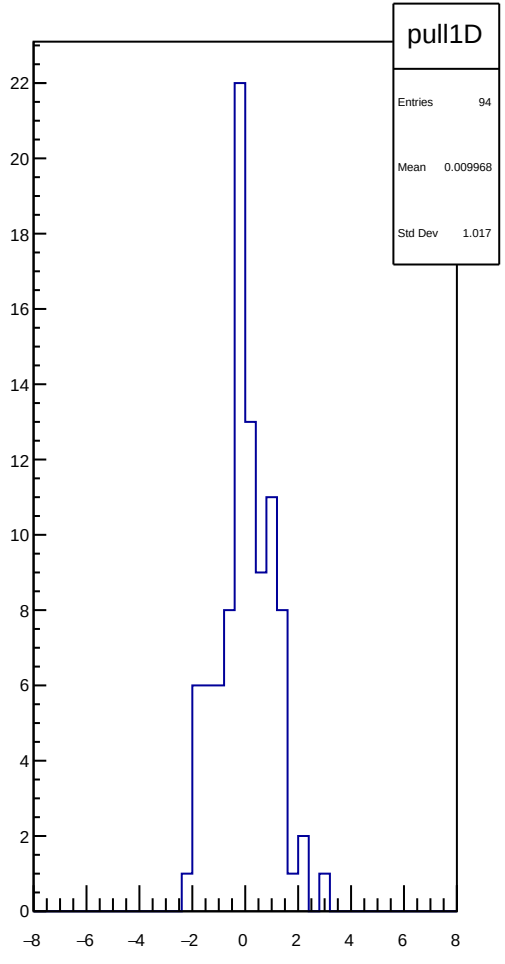

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.698e+05 / 93
p0 8.208e−12 ± 7.215e−15
45
40
35
30
25
20
15
10
5

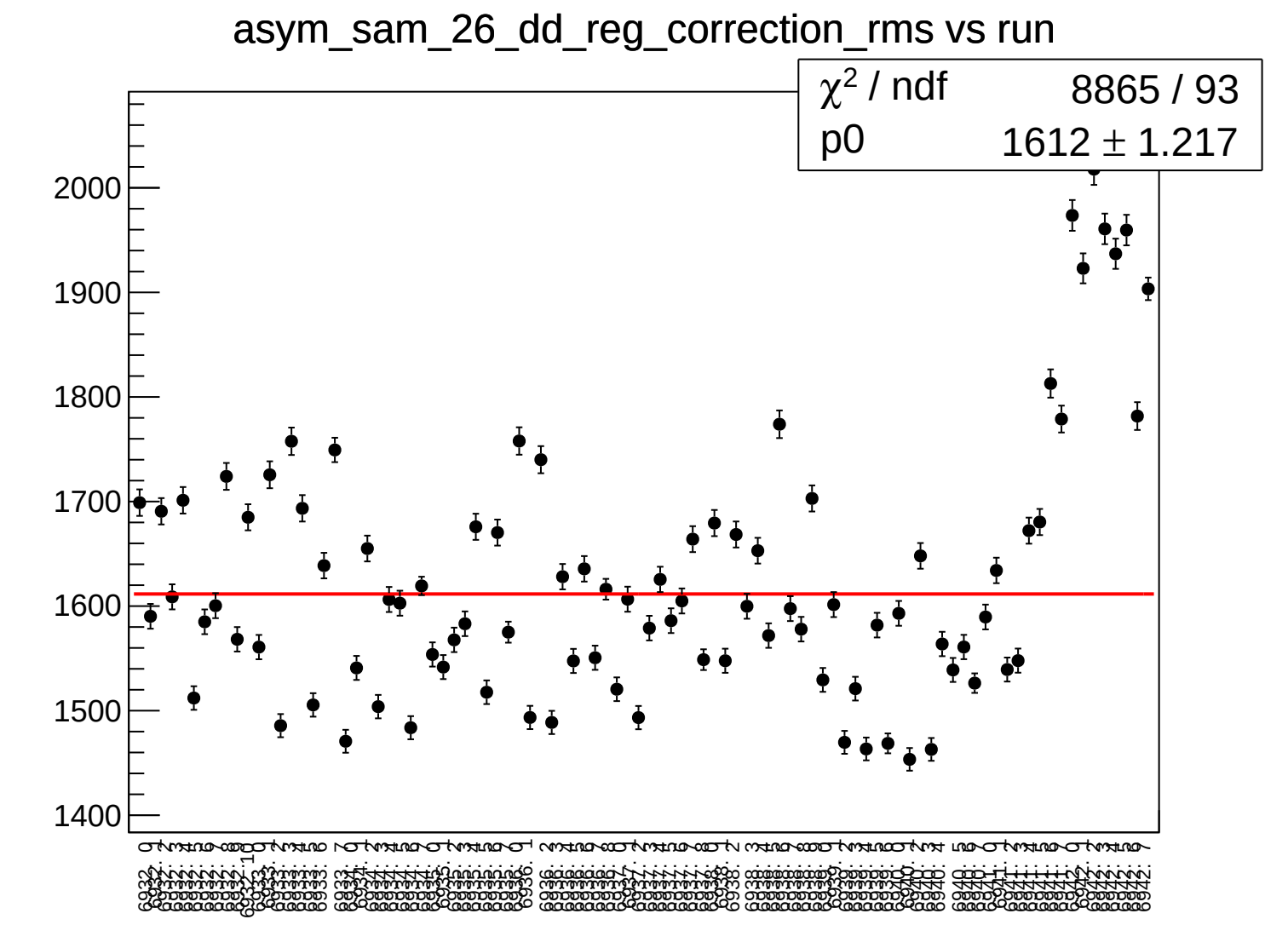

reg_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 93
p0 466.8 ± 220.8
pull
Entries 94
Mean −1895
Std Dev 0

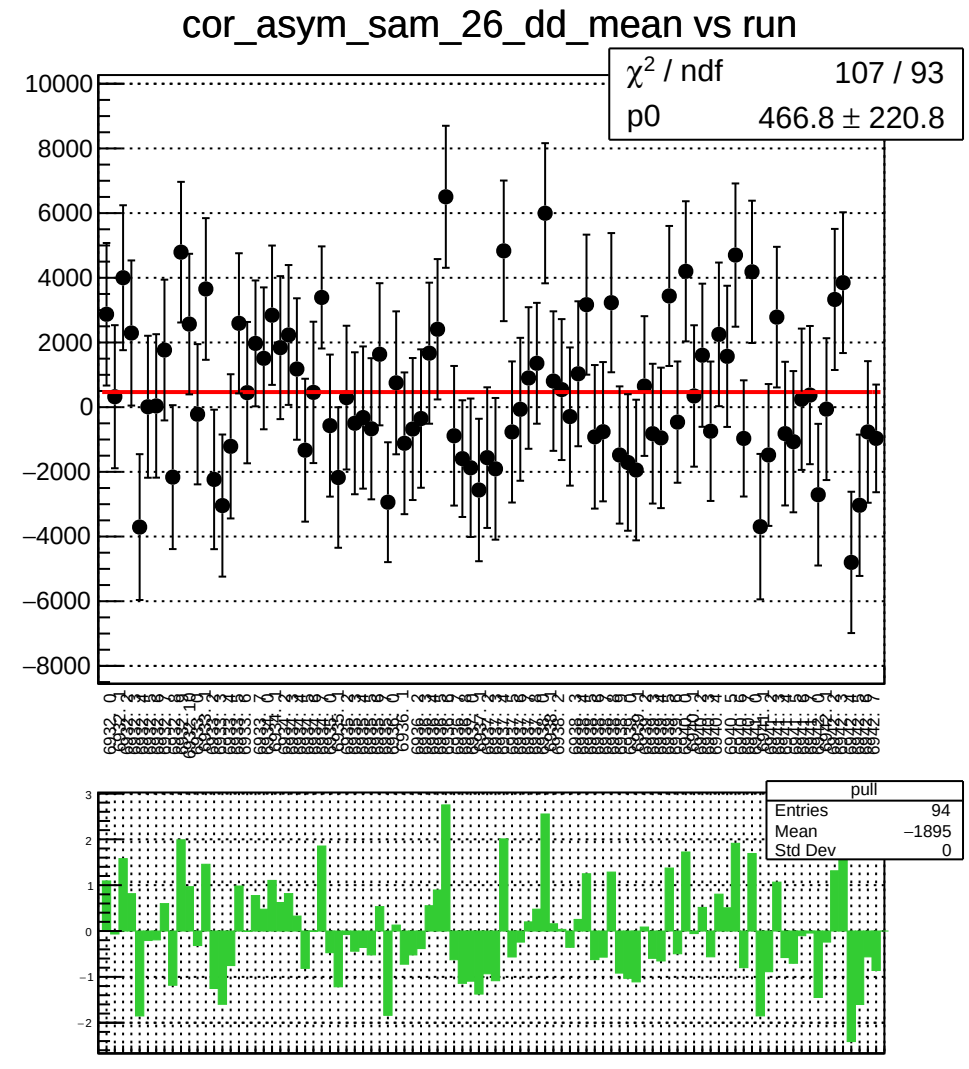

pull1D
Entries 94
Mean 0.001672
Std Dev 1.067

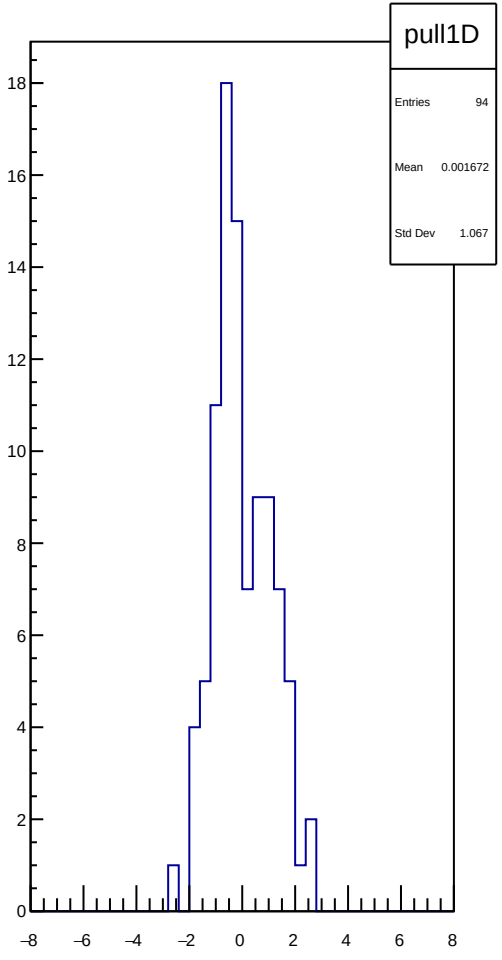

reg_asym_sam_26_dd_rms vs run
χ² / ndf 232.8 / 93
p0 207.3 ± 0.1561
216
214
212
210
208
206
204
202
200
198

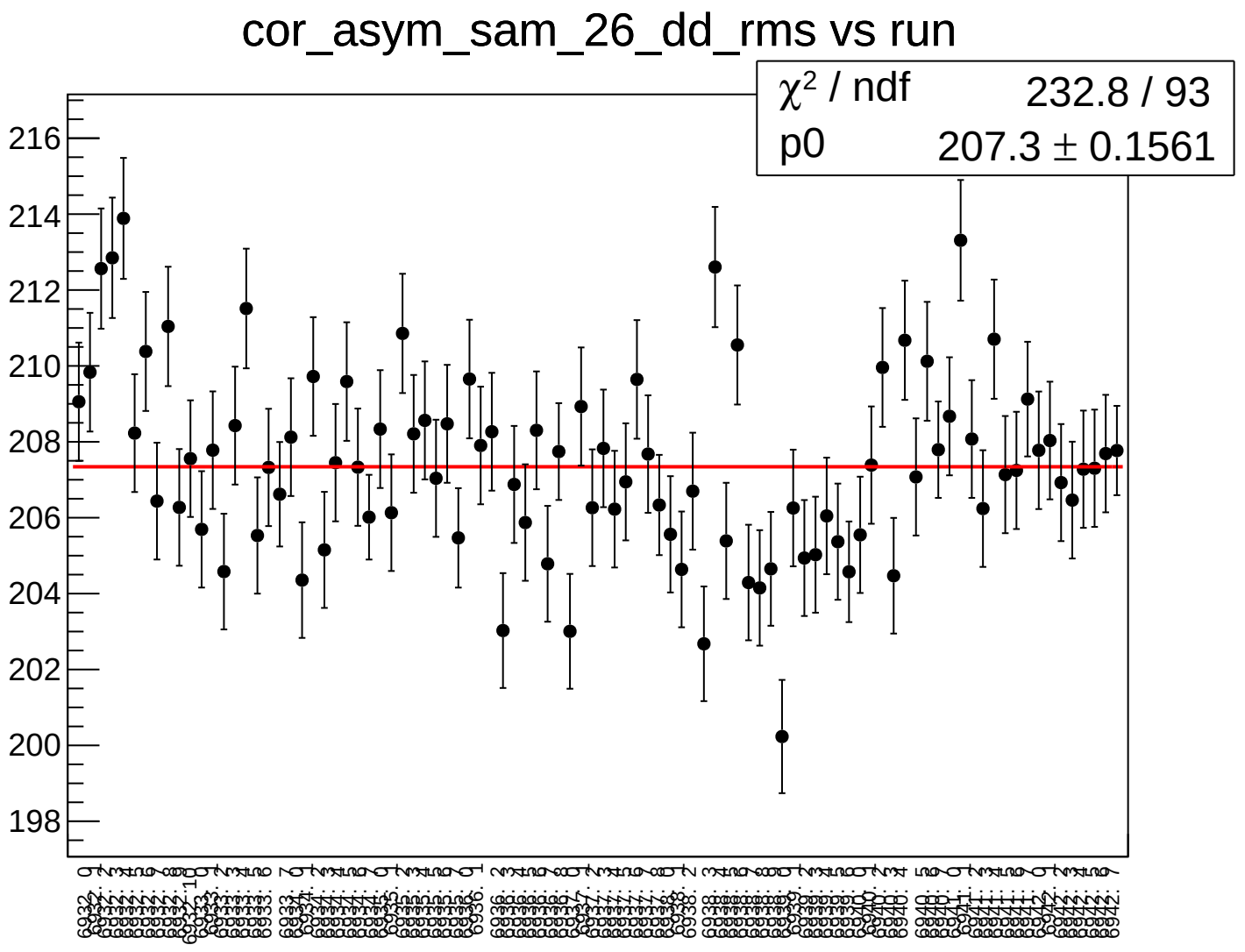

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 97.3 / 93
p0 −1574 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 176
Std Dev 0
3
2
1
0
−1
−2

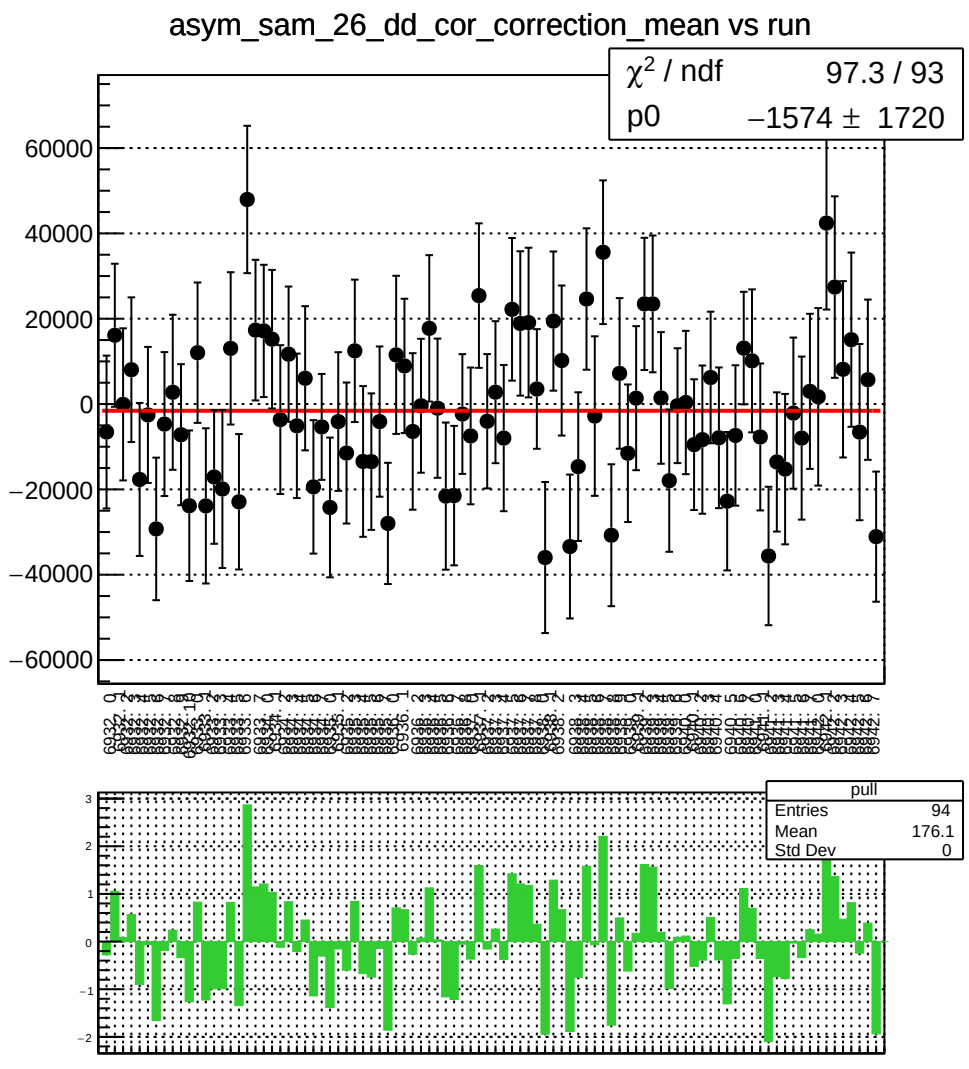

pull1D
Entries 94
Mean 0.009968
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

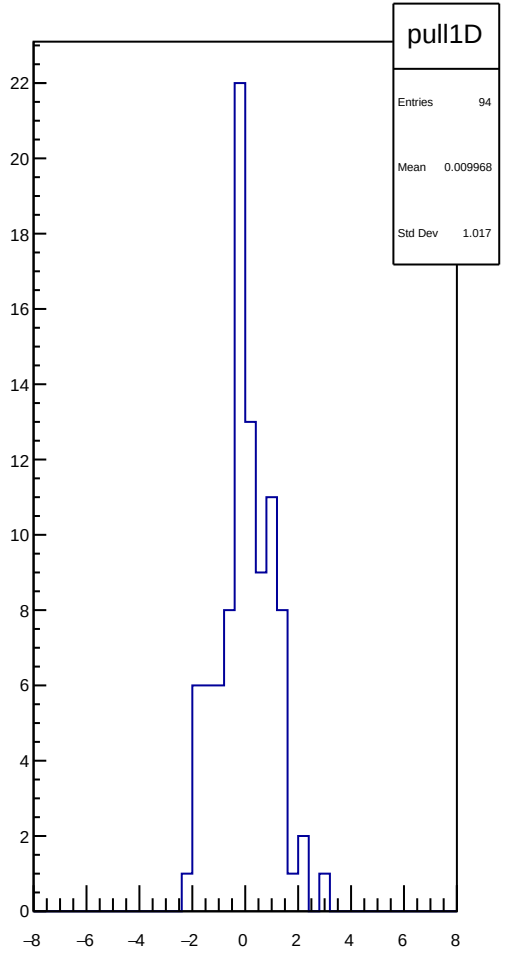

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 8865 / 93
p0 1612 ± 1.217
2000
1900
1800
1700
1600
1500
1400

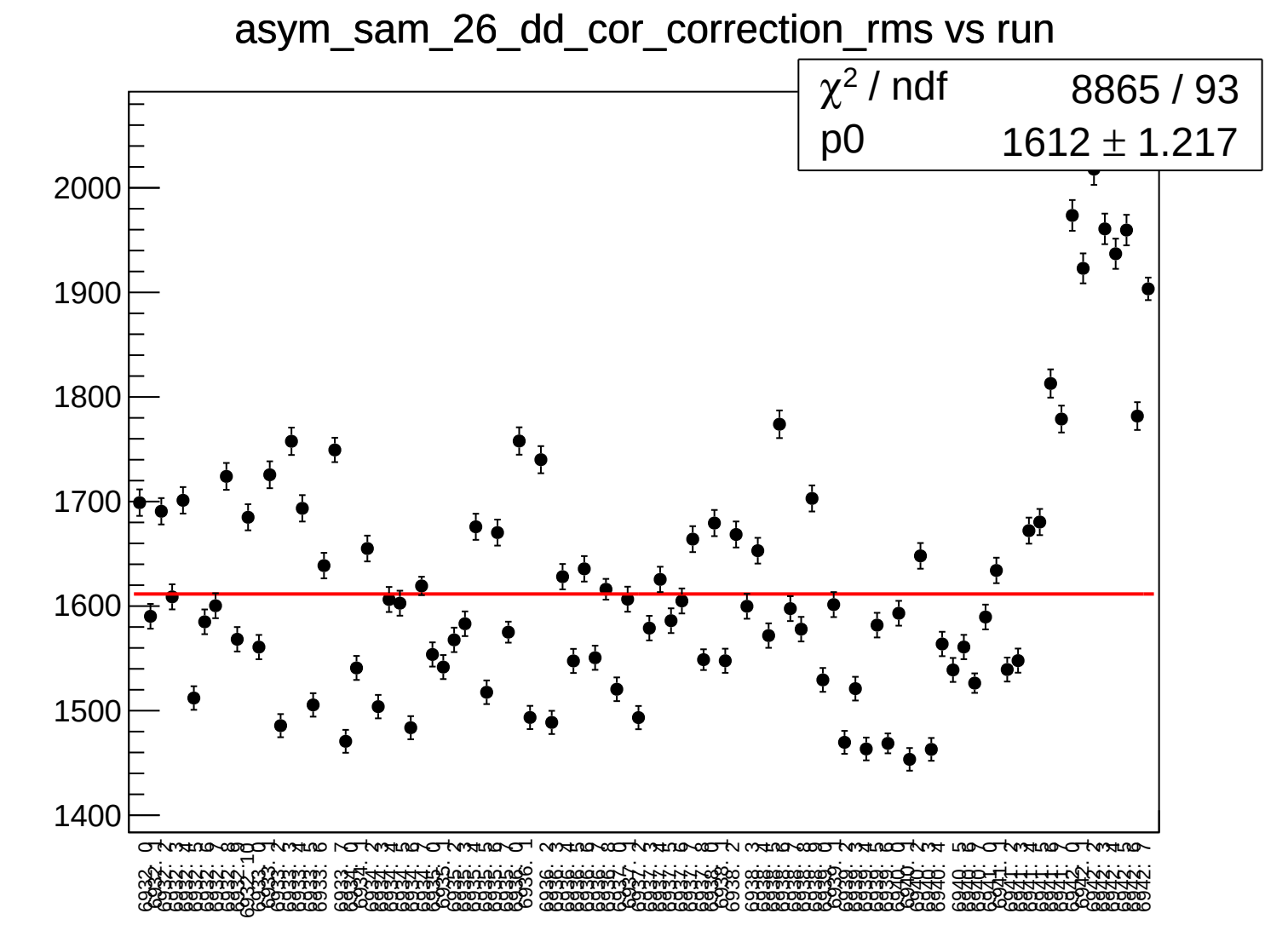

cor_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 93
p0 466.8 ± 220.8
pull
Entries 94
Mean −1895
Std Dev 0

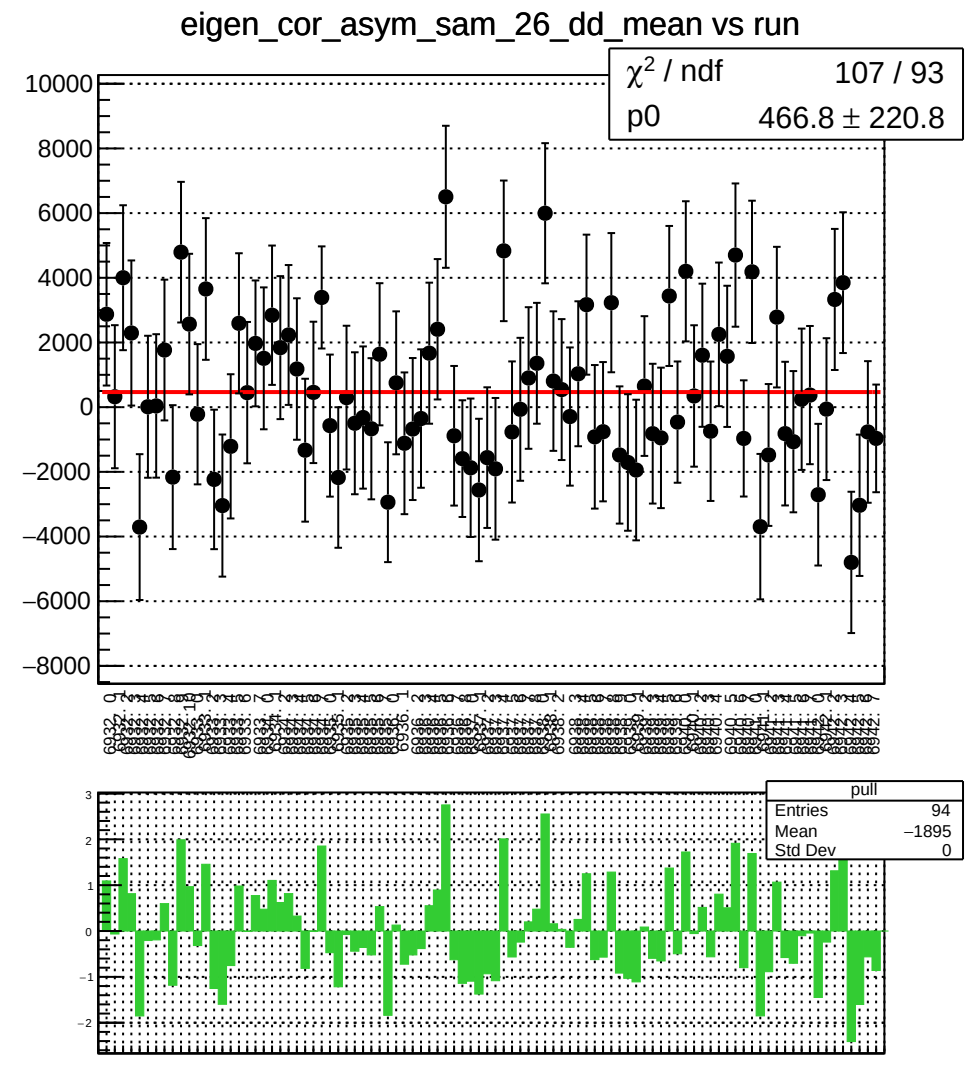

pull1D
Entries 94
Mean 0.001672
Std Dev 1.067

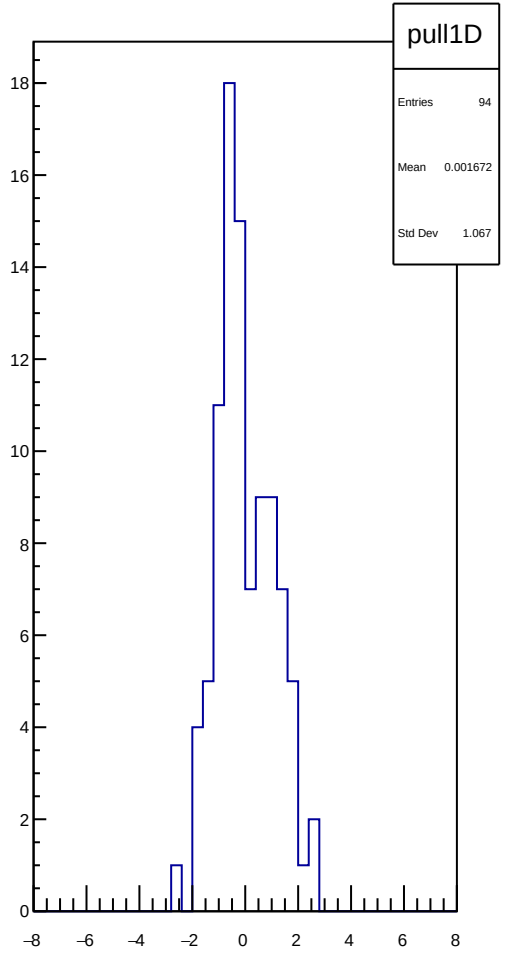

cor_asym_sam_26_dd_rms vs run
χ² / ndf 232.8 / 93
p0 207.3 ± 0.1561
216
214
212
210
208
206
204
202
200
198

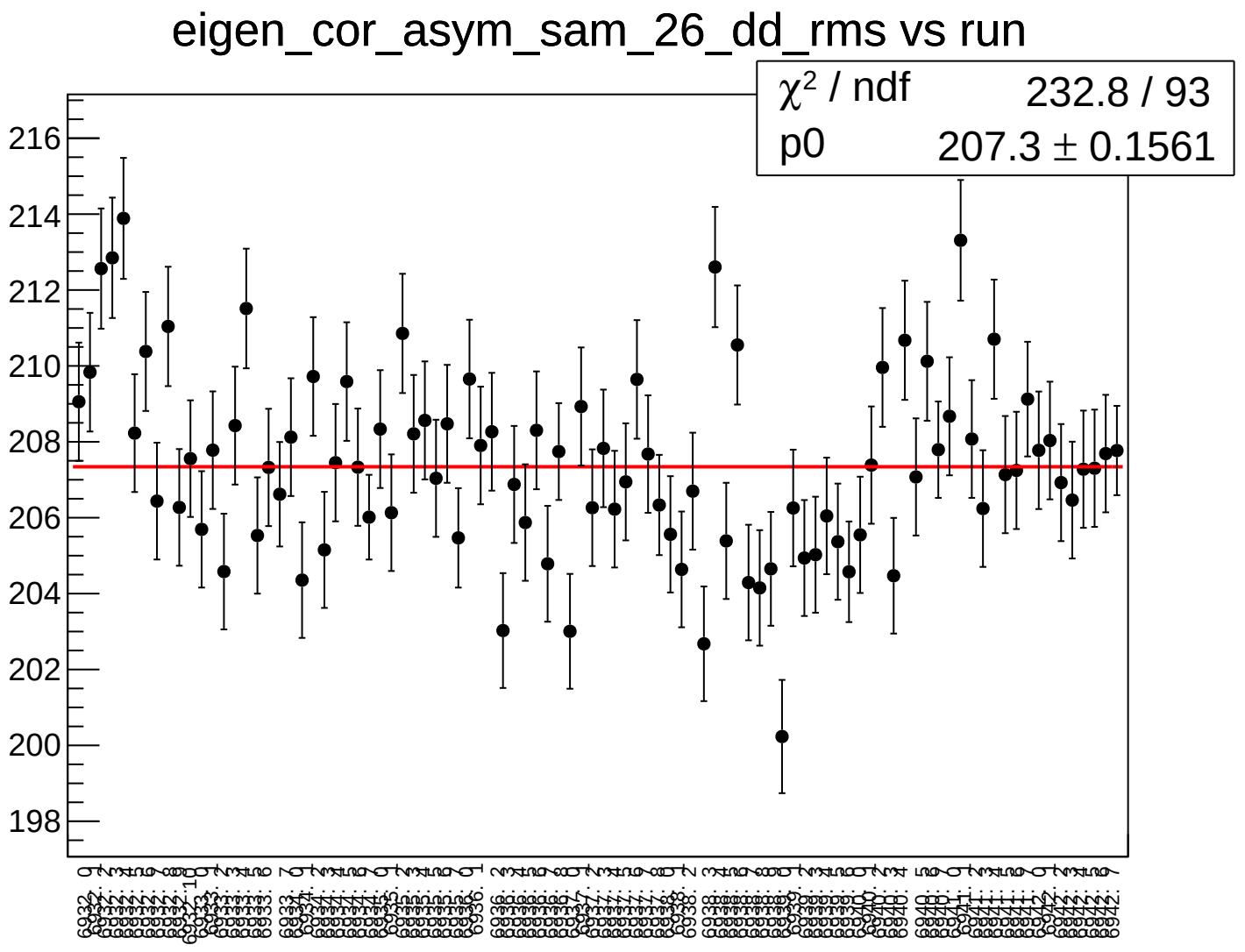

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 97.3 / 93
p0 −1574 ± 1720
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 176.1
Std Dev 0
3
2
1
0
−1
−2

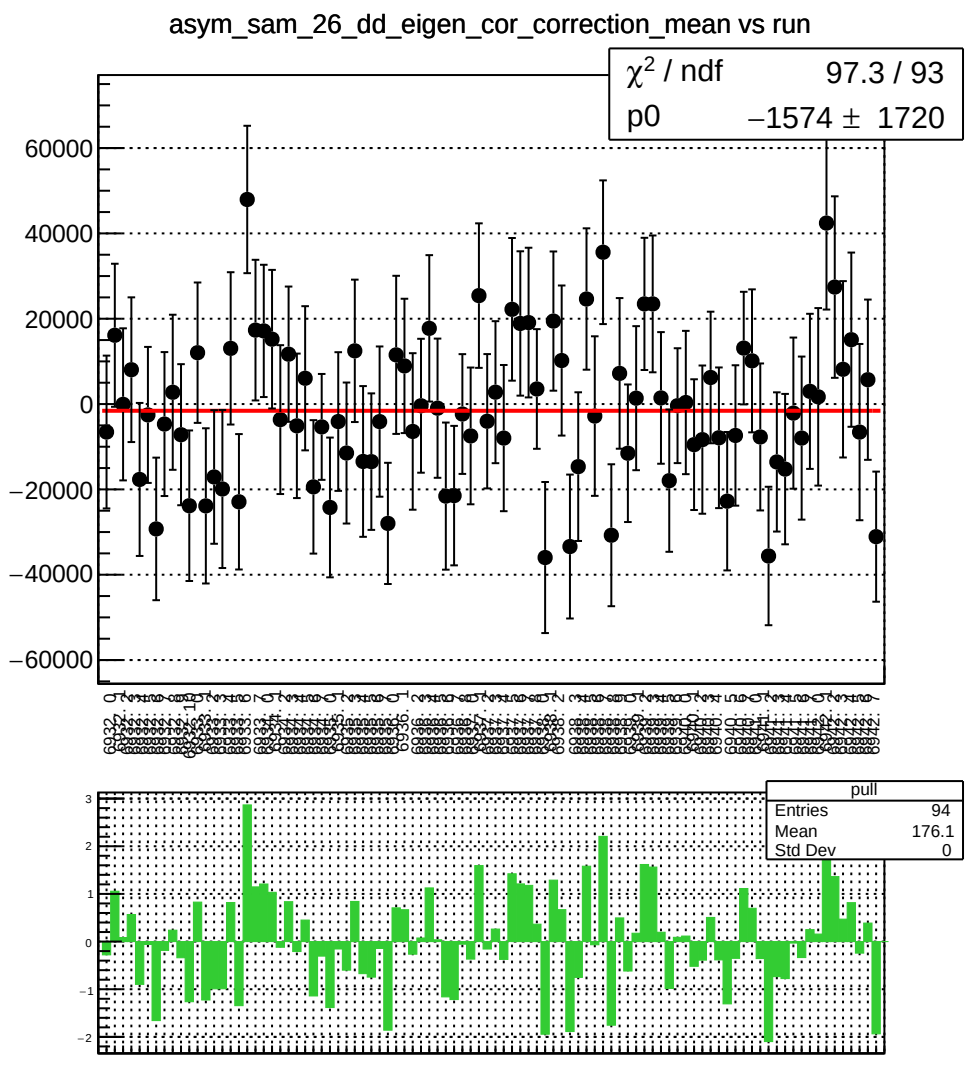

pull1D
Entries 94
Mean 0.009968
Std Dev 1.017
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

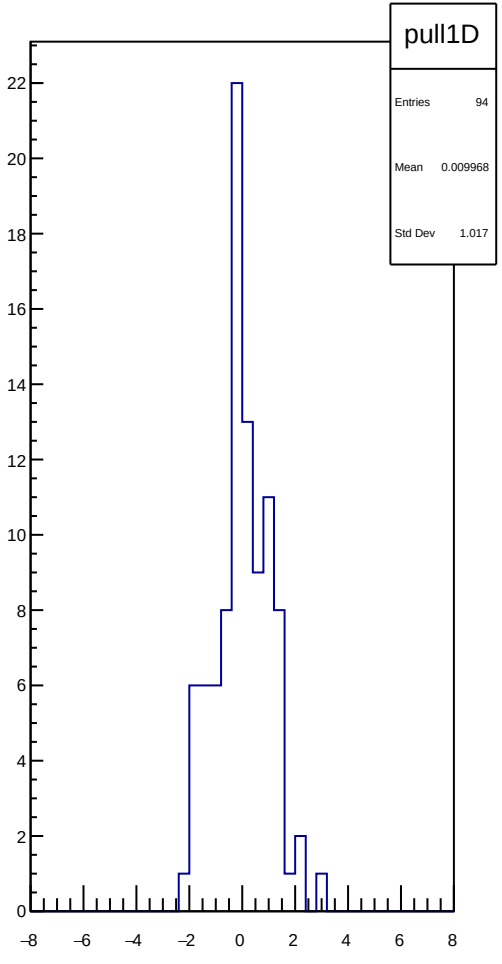

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 8865 / 93
p0 1612 ± 1.217
2000
1900
1800
1700
1600
1500
1400

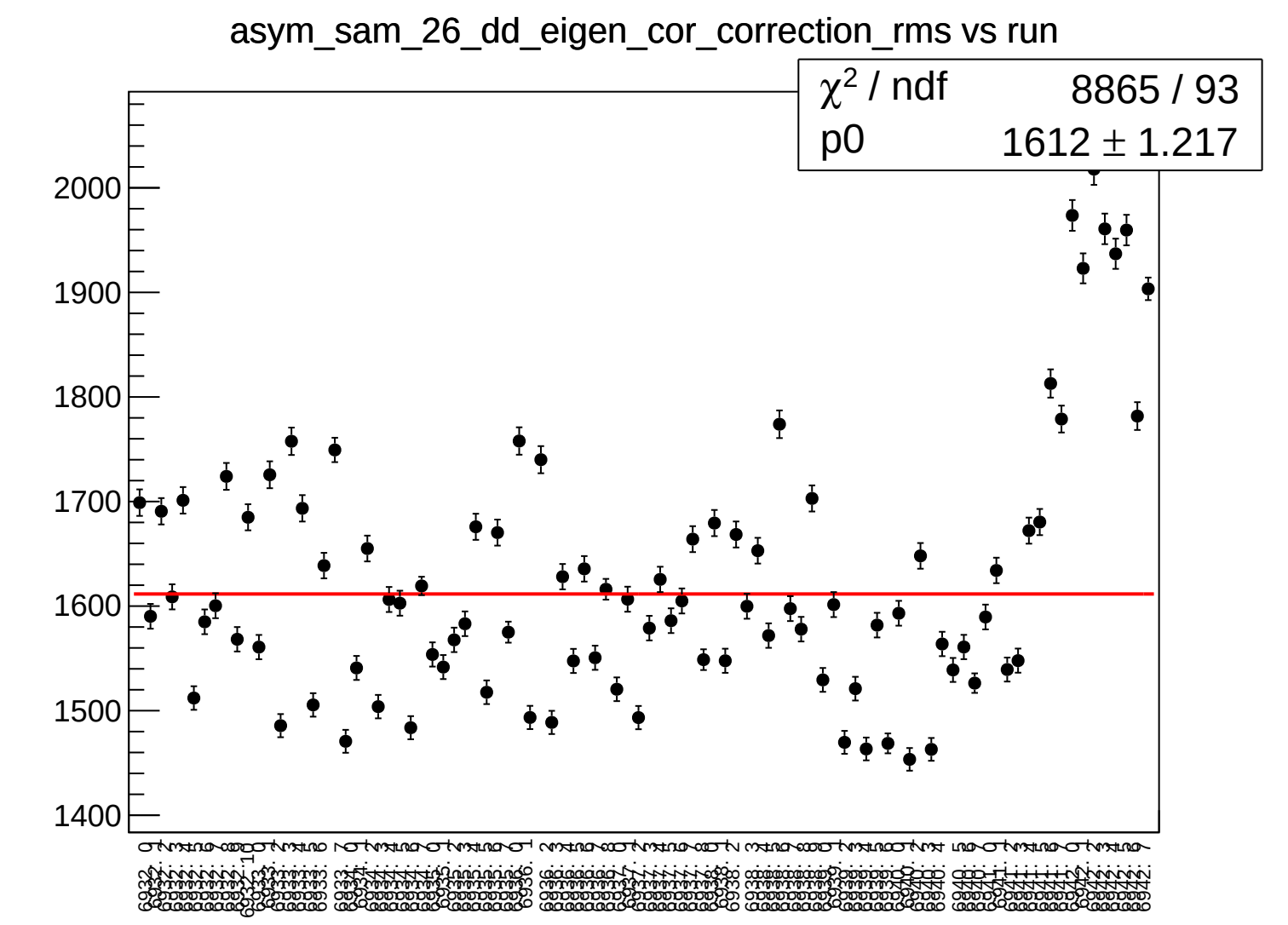

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 107 / 93
p0 466.8 ± 220.8
pull
Entries 94
Mean −1895
Std Dev 0

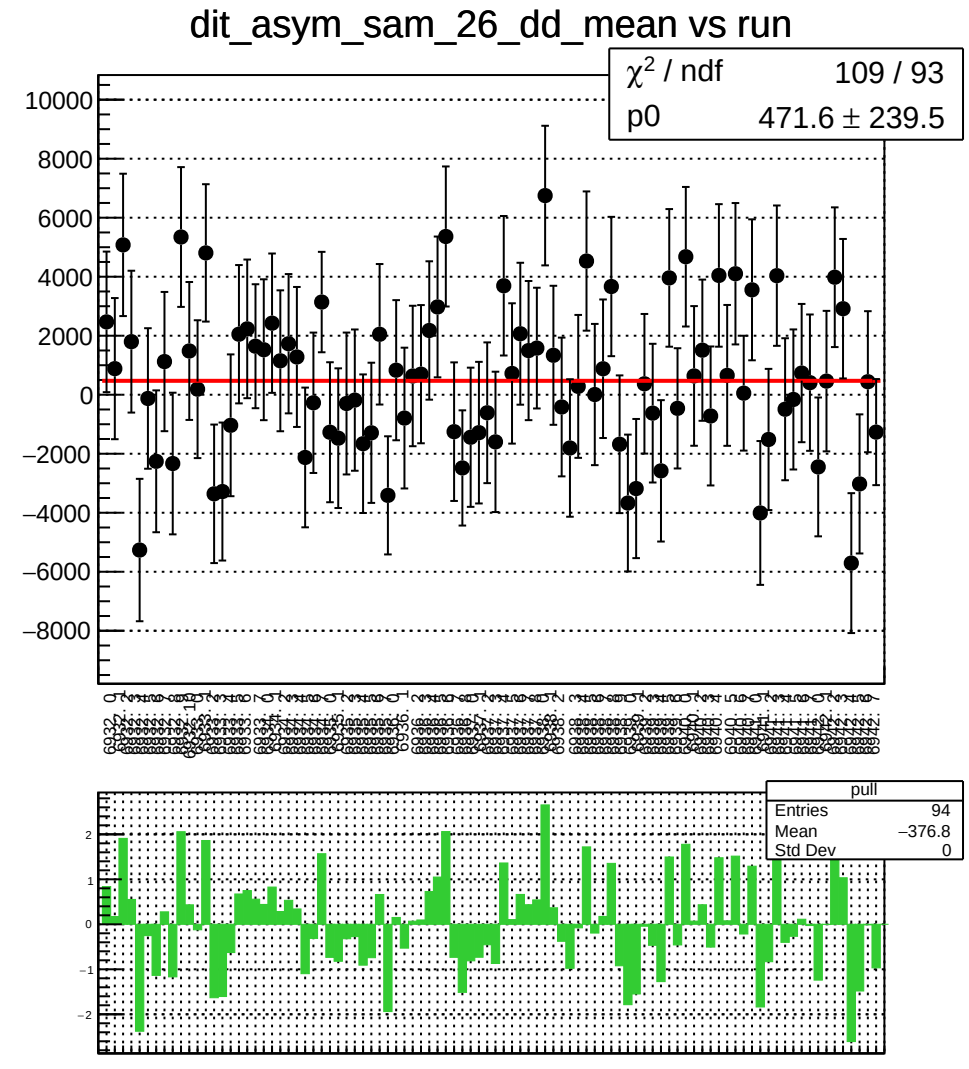

pull1D
Entries 94
Mean 0.001672
Std Dev 1.067

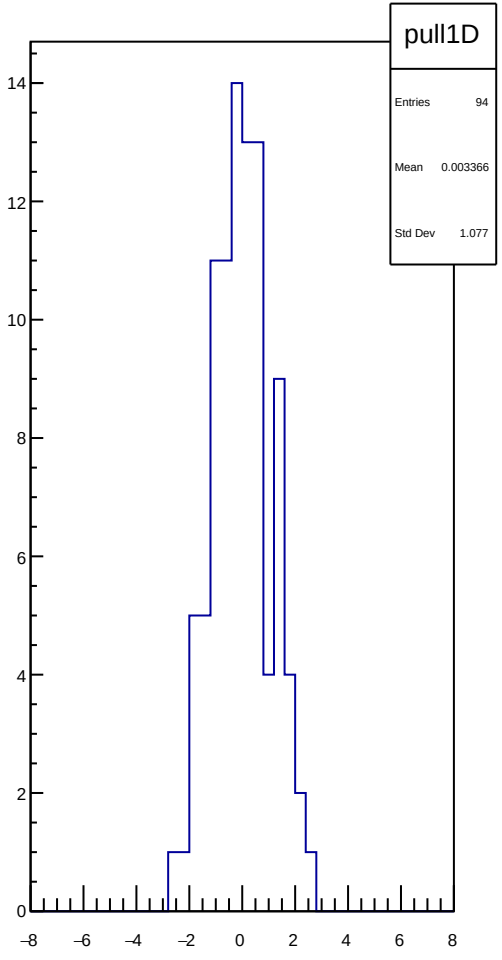

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 232.8 / 93
p0 207.3 ± 0.1561
216
214
212
210
208
206
204
202
200
198

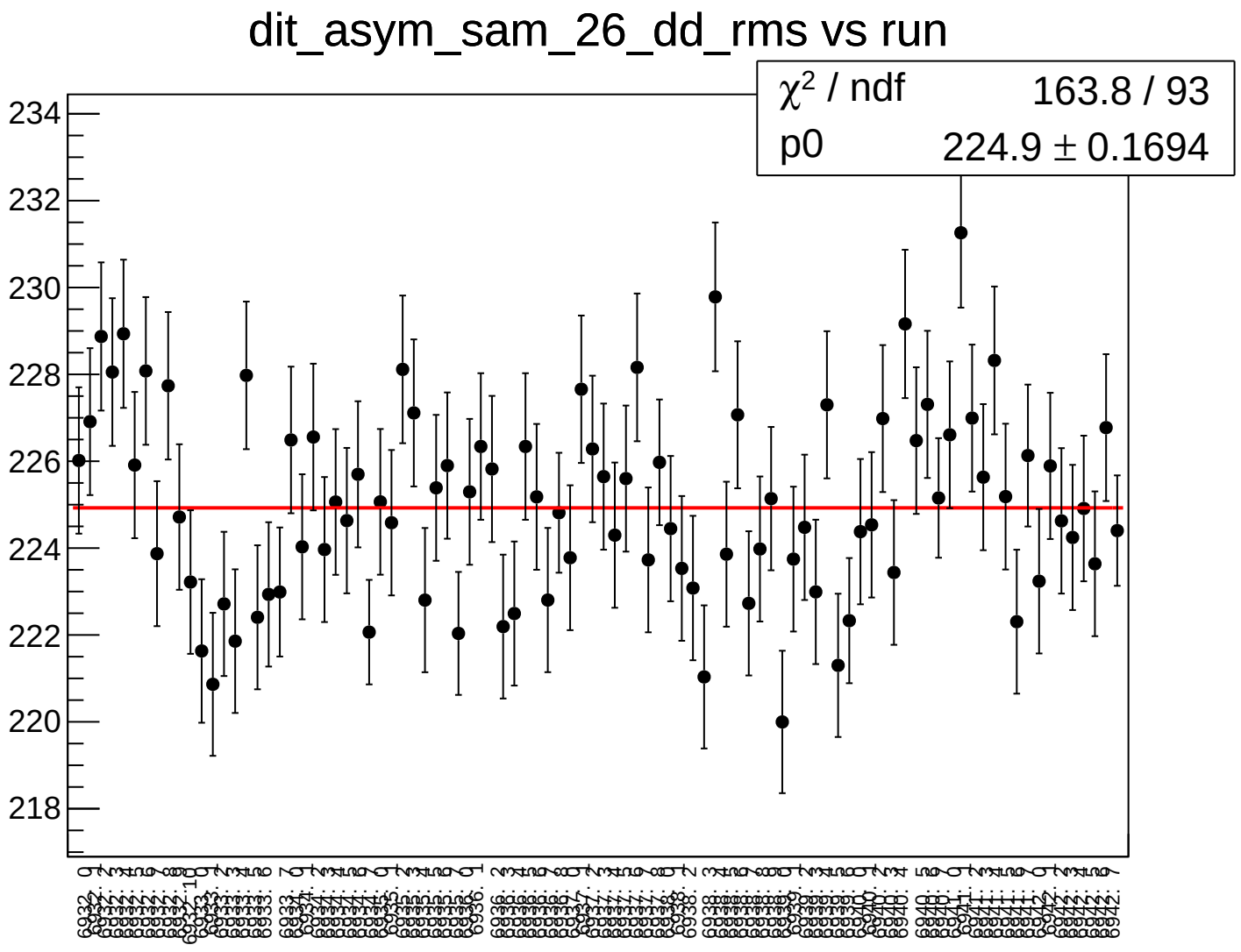

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.3 / 93
p0 −1574 ± 1720
pull
Entries 94
Mean 176.1
Std Dev 0

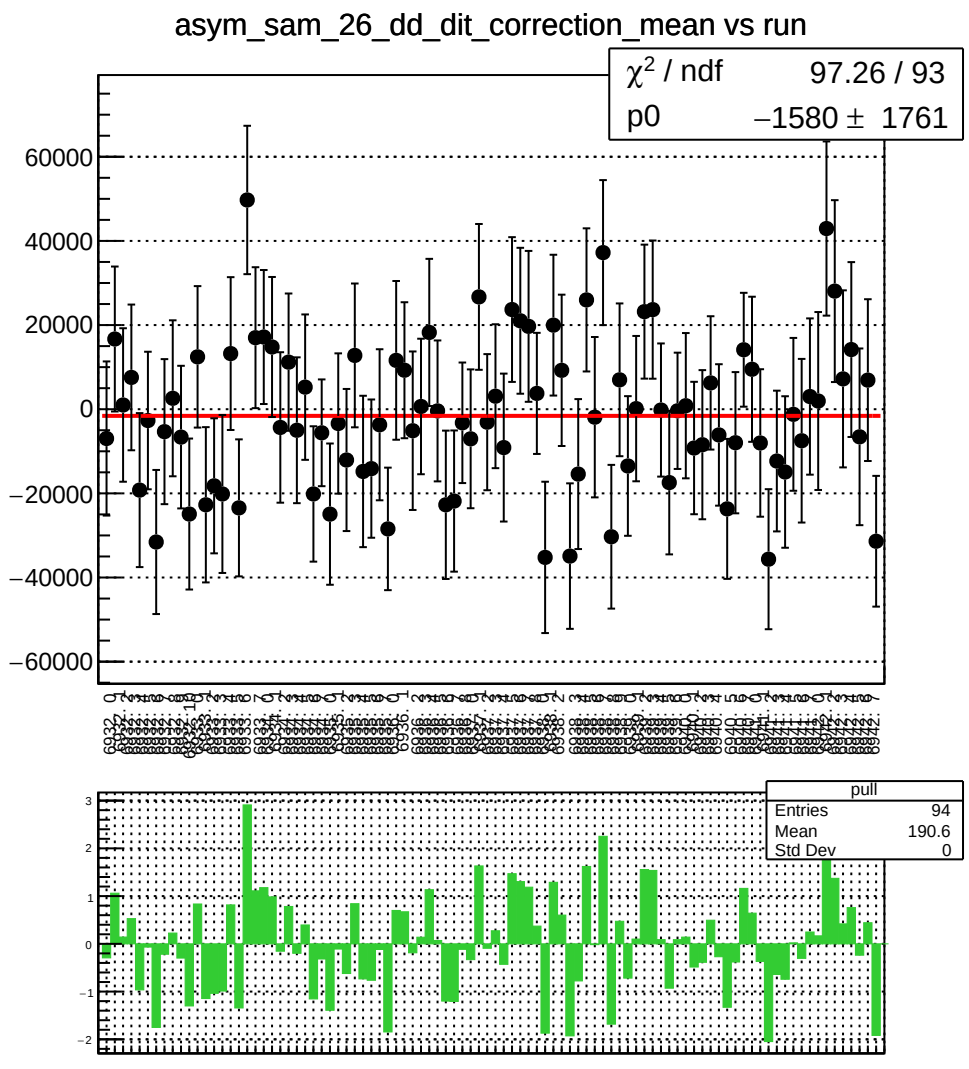

pull1D
Entries 94
Mean 0.009968
Std Dev 1.017

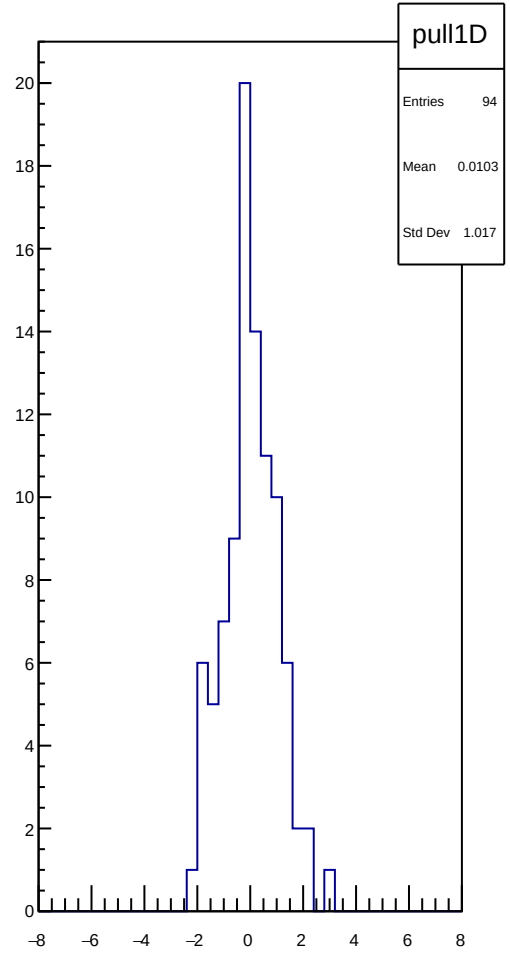

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 8865 / 93
p0 1612 ± 1.217
2000
1900
1800
1700
1600
1500
1400

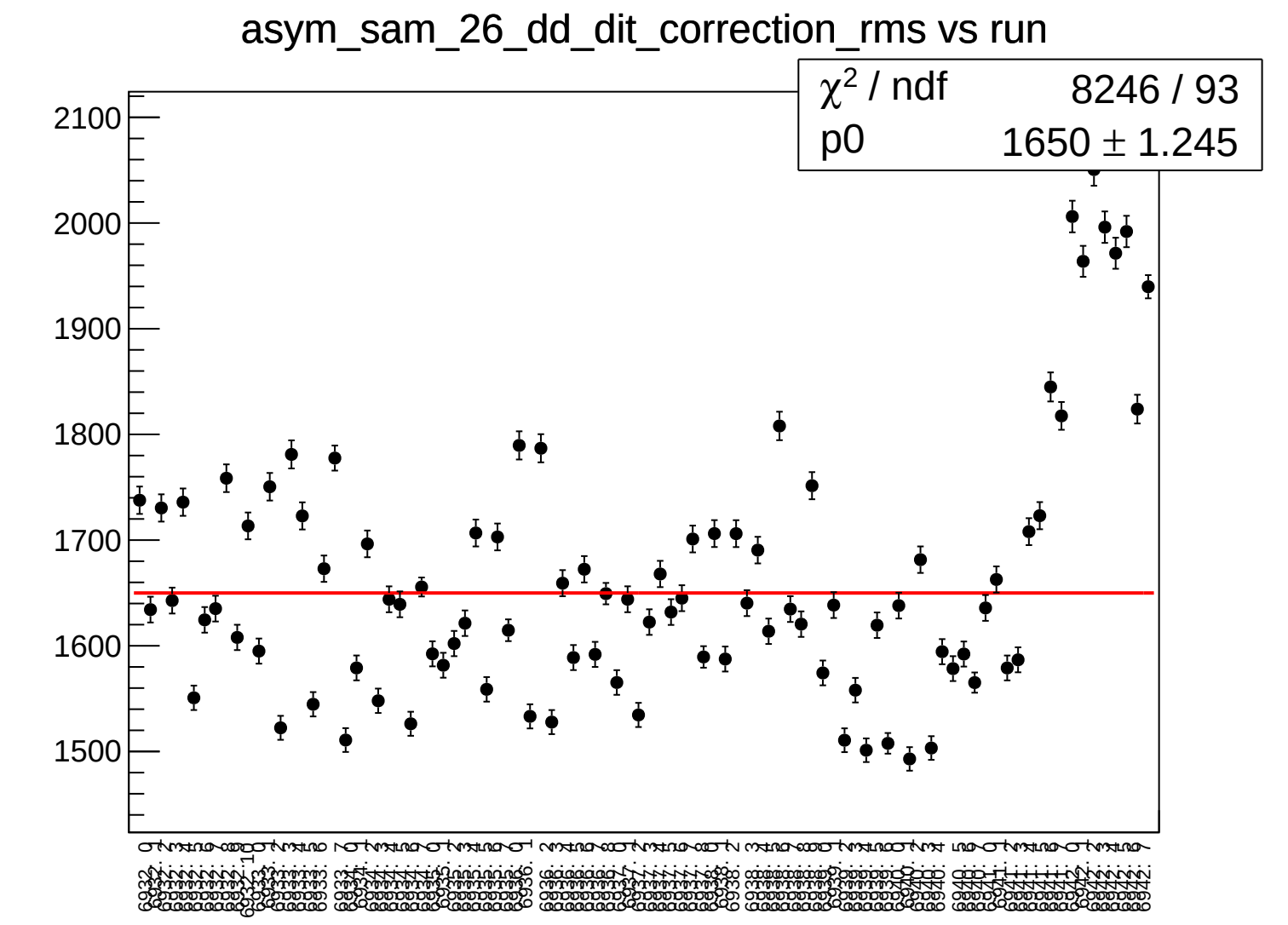

dit_asym_sam_26_dd_mean vs run
χ² / ndf 109 / 93
p0 471.6 ± 239.5
pull
Entries 94
Mean −376.8
Std Dev 0

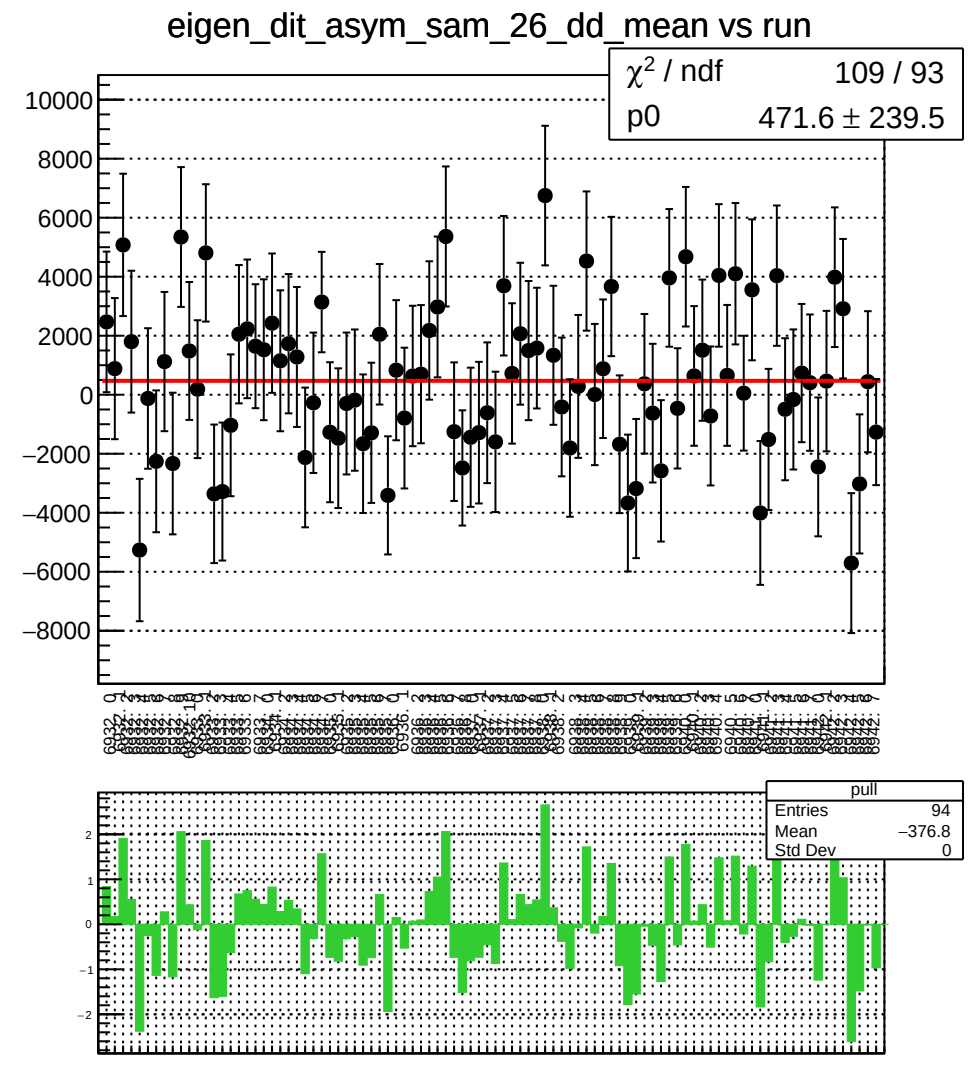

pull1D
Entries 94
Mean 0.003366
Std Dev 1.077

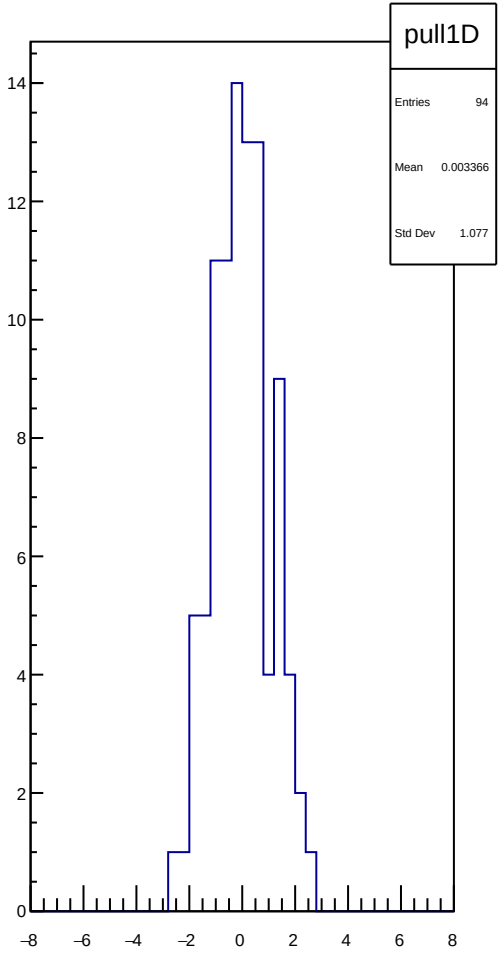

dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 163.8 / 93
p0 224.9 ± 0.1694
234
232
230
228
226
224
222
220
218

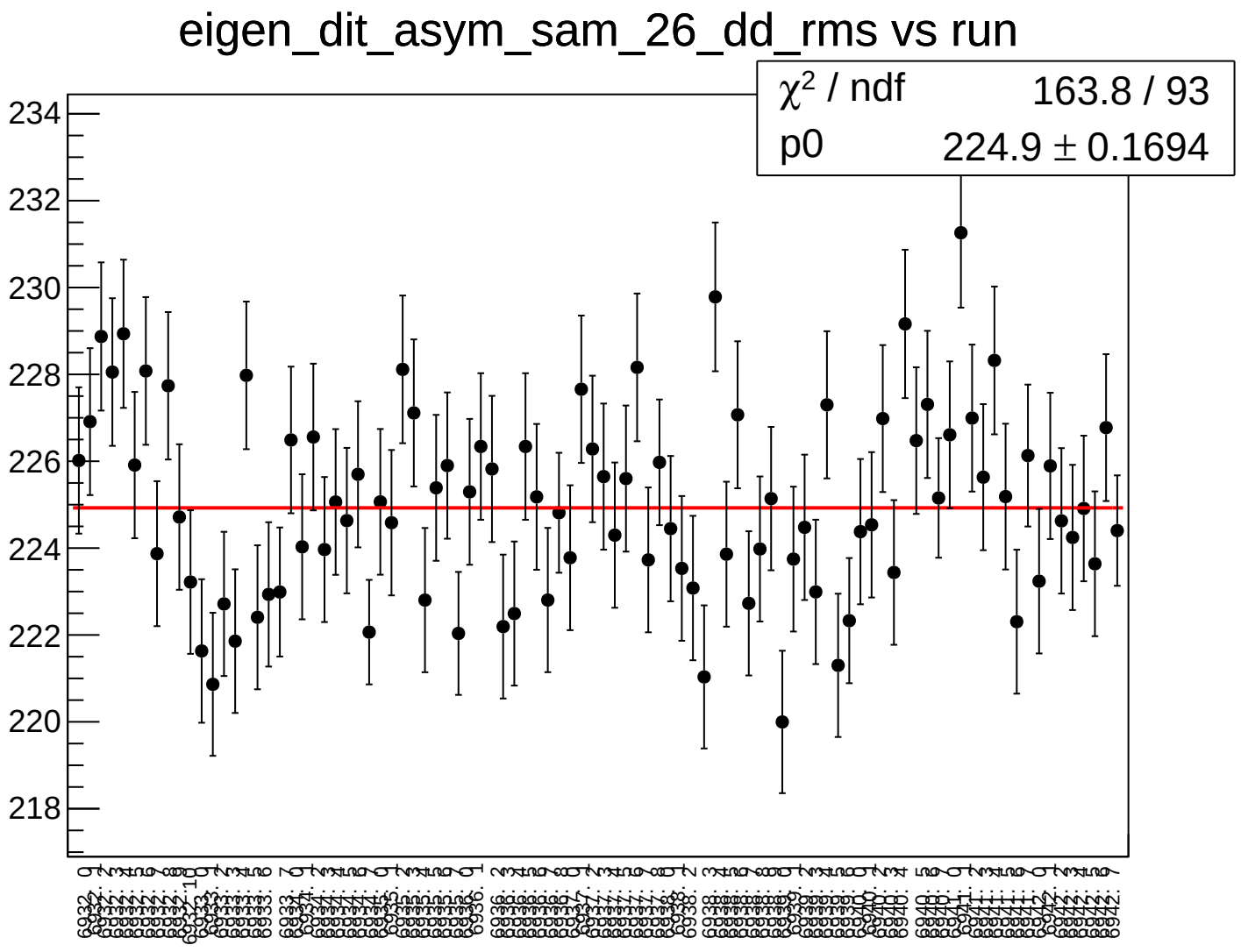

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 97.26 / 93
p0 −1580 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 190.6
Std Dev 0
3
2
1
0
−1
−2

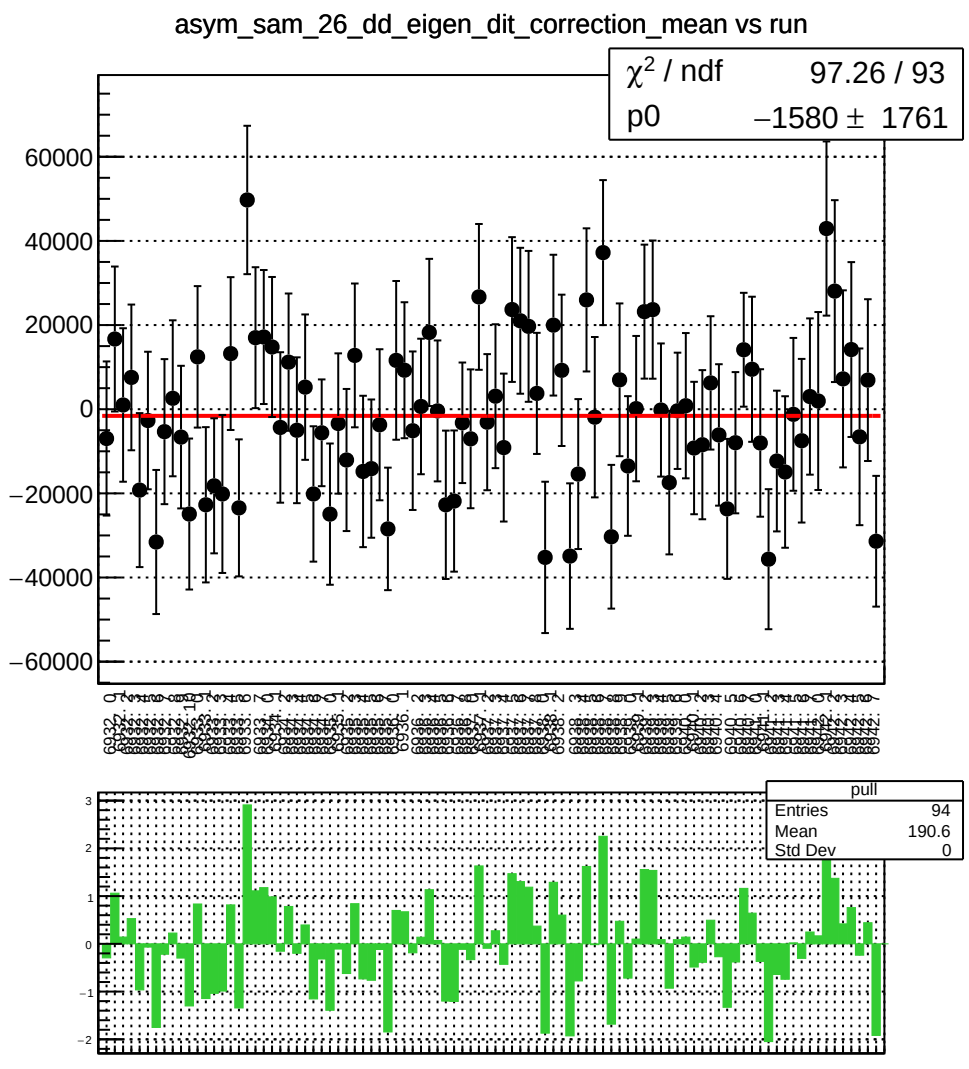

pull1D
Entries 94
Mean 0.0103
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

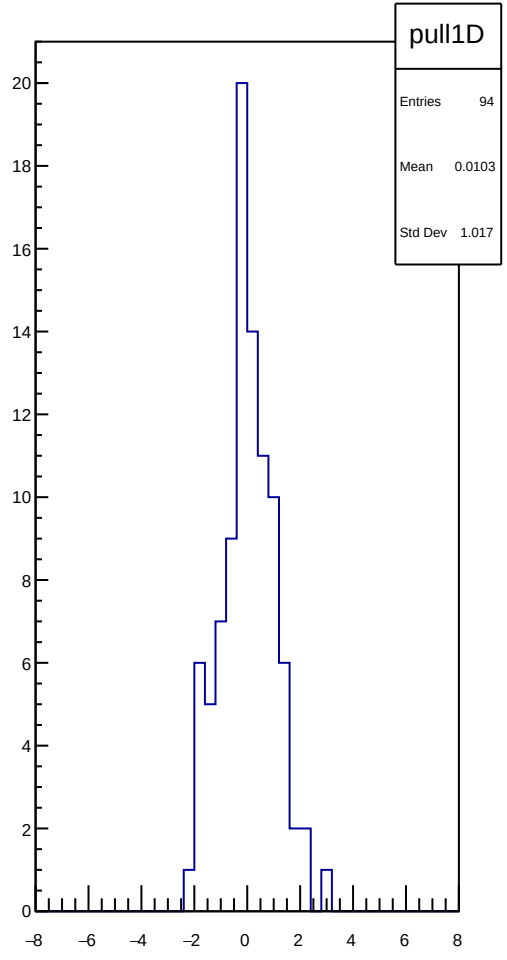

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 8246 / 93
p0 1650 ± 1.245
2100
2000
1900
1800
1700
1600
1500

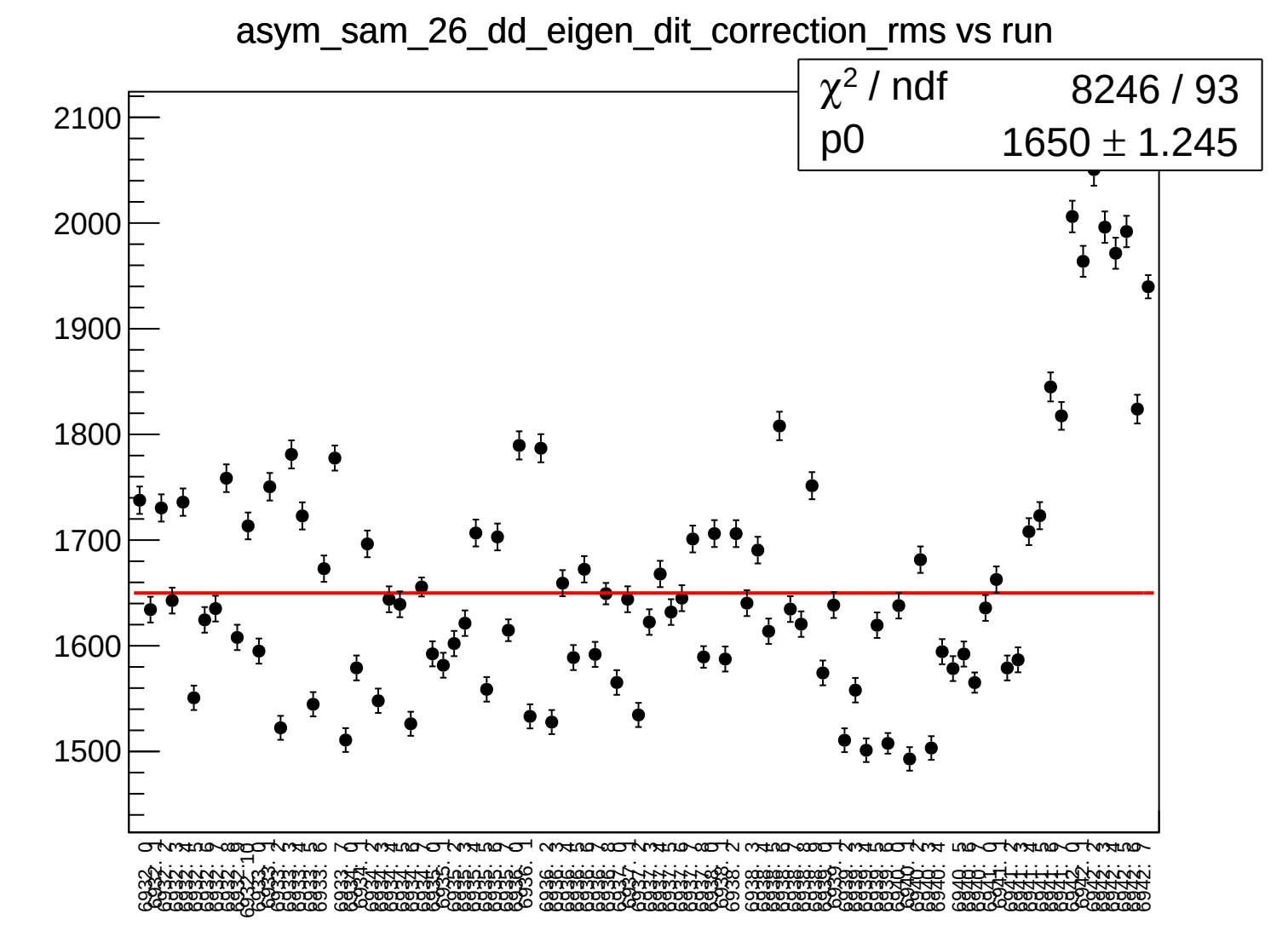

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 109 / 93
p0 471.6 ± 239.5
pull
Entries 94
Mean −376.8
Std Dev 0

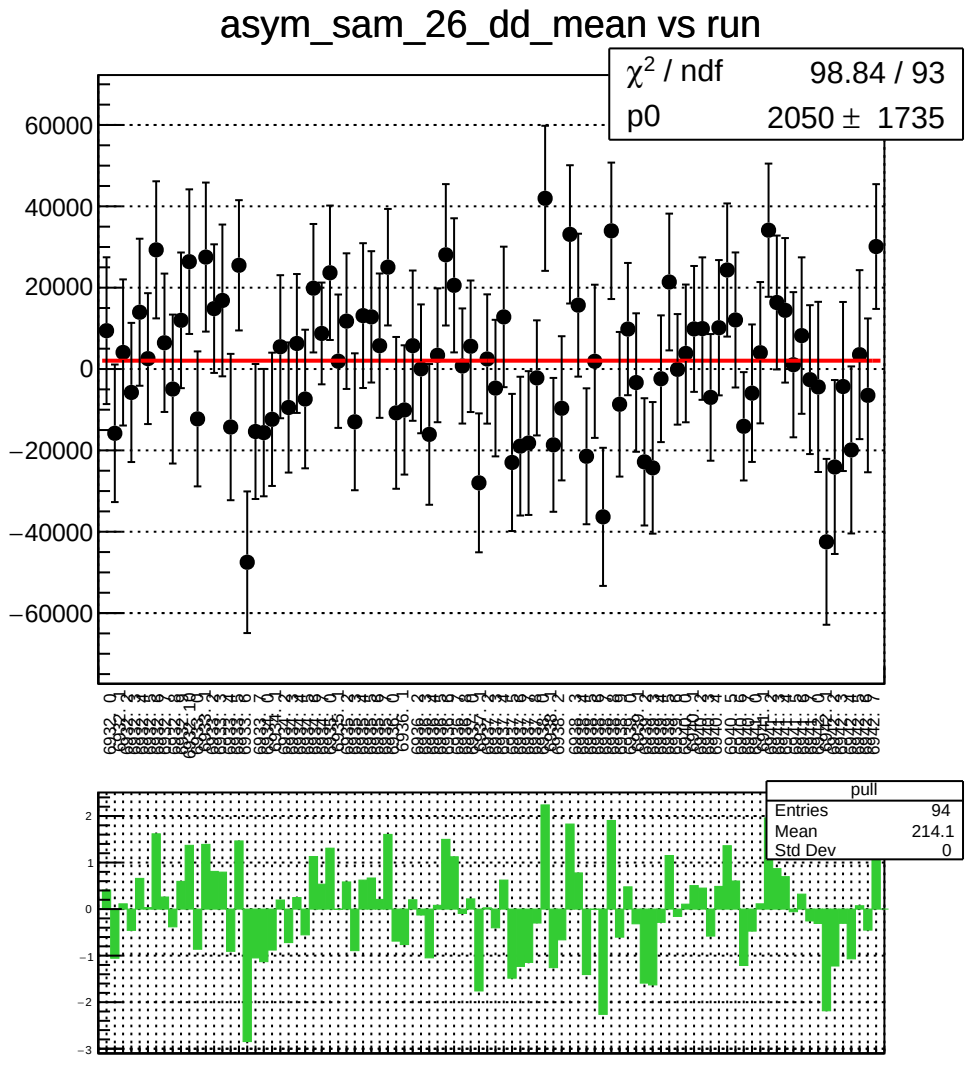

pull1D
Entries 94
Mean 0.003366
Std Dev 1.077

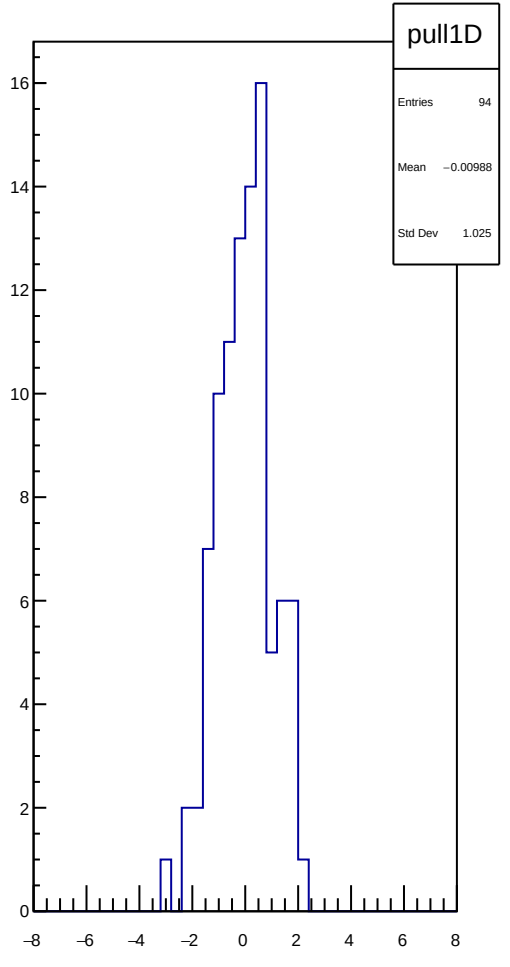

eigen_dit_asym_sam_26_dd_rms vs run
χ^2 / ndf 163.8 / 93
p0 224.9 ± 0.1694
234
232
230
228
226
224
222
220
218

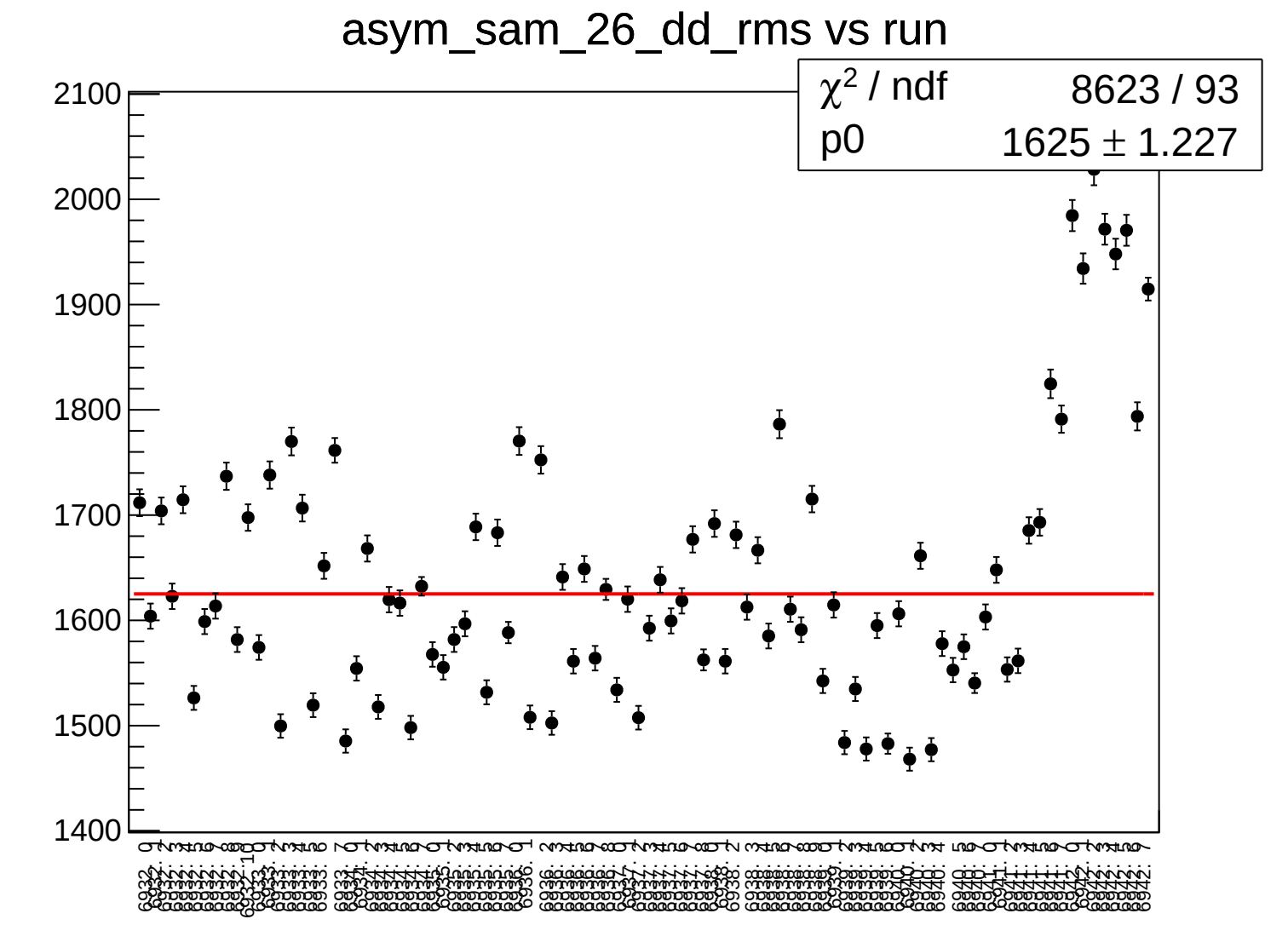

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.26 / 93
p0 −1580 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 190.6
Std Dev 0
3
2
1
0
−1
−2

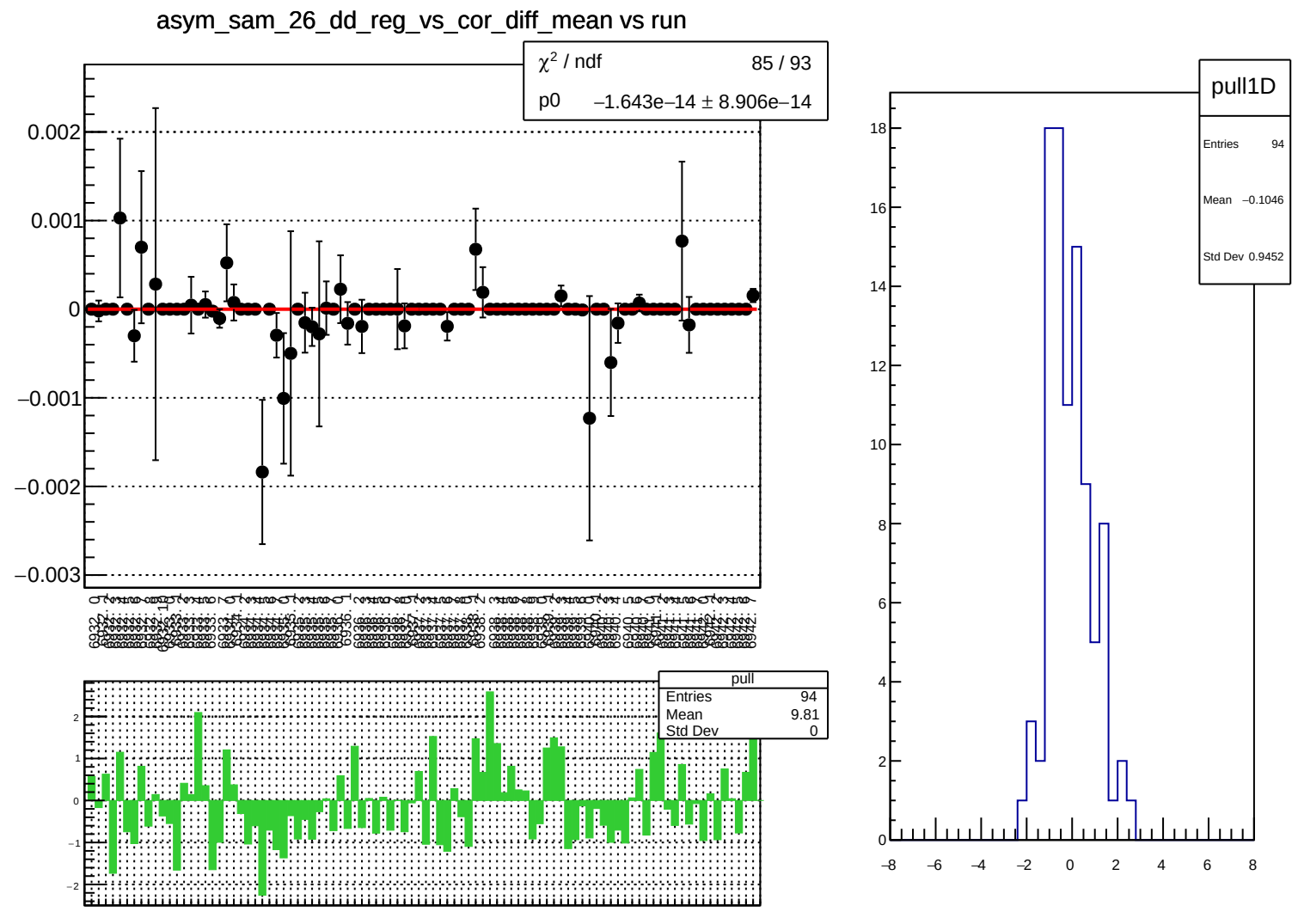

pull1D
Entries 94
Mean 0.0103
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

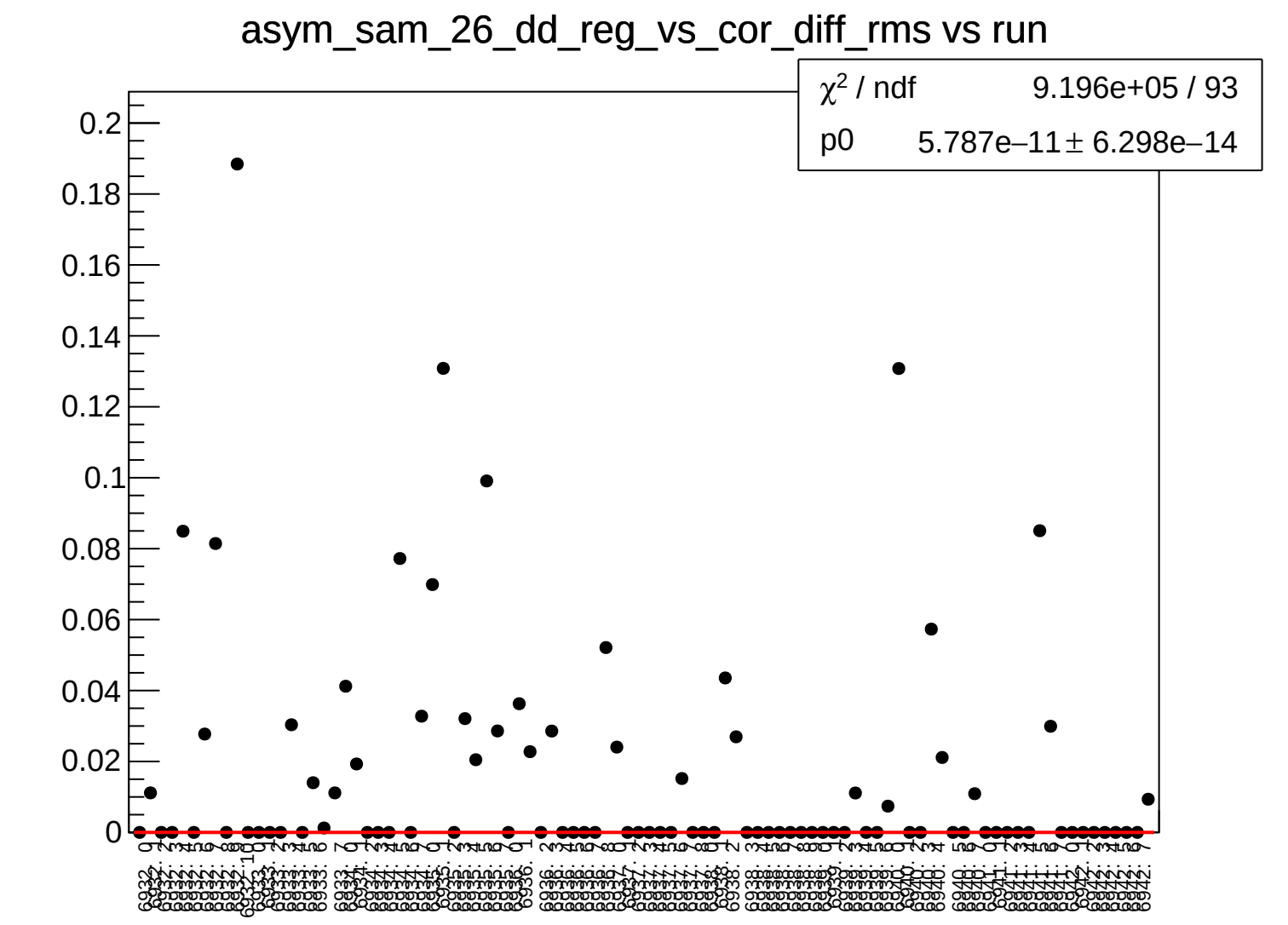

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 8246 / 93
p0 1650 ± 1.245
2100
2000
1900
1800
1700
1600
1500

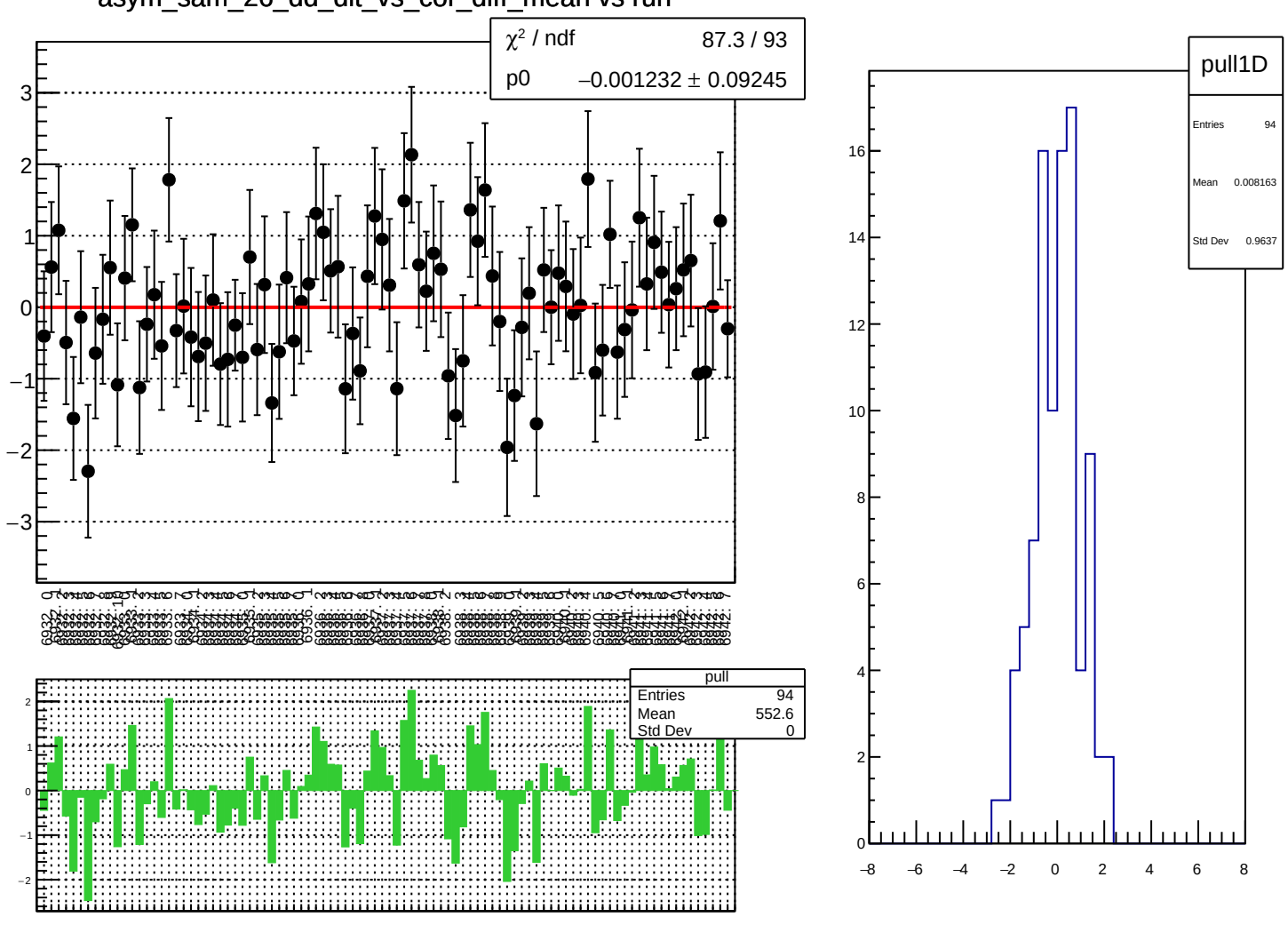

asym_sam_26_dd_mean vs run
χ² / ndf 98.84 / 93
p0 2050 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 214.1
Std Dev 0
2
1
0
−1
−2
−3

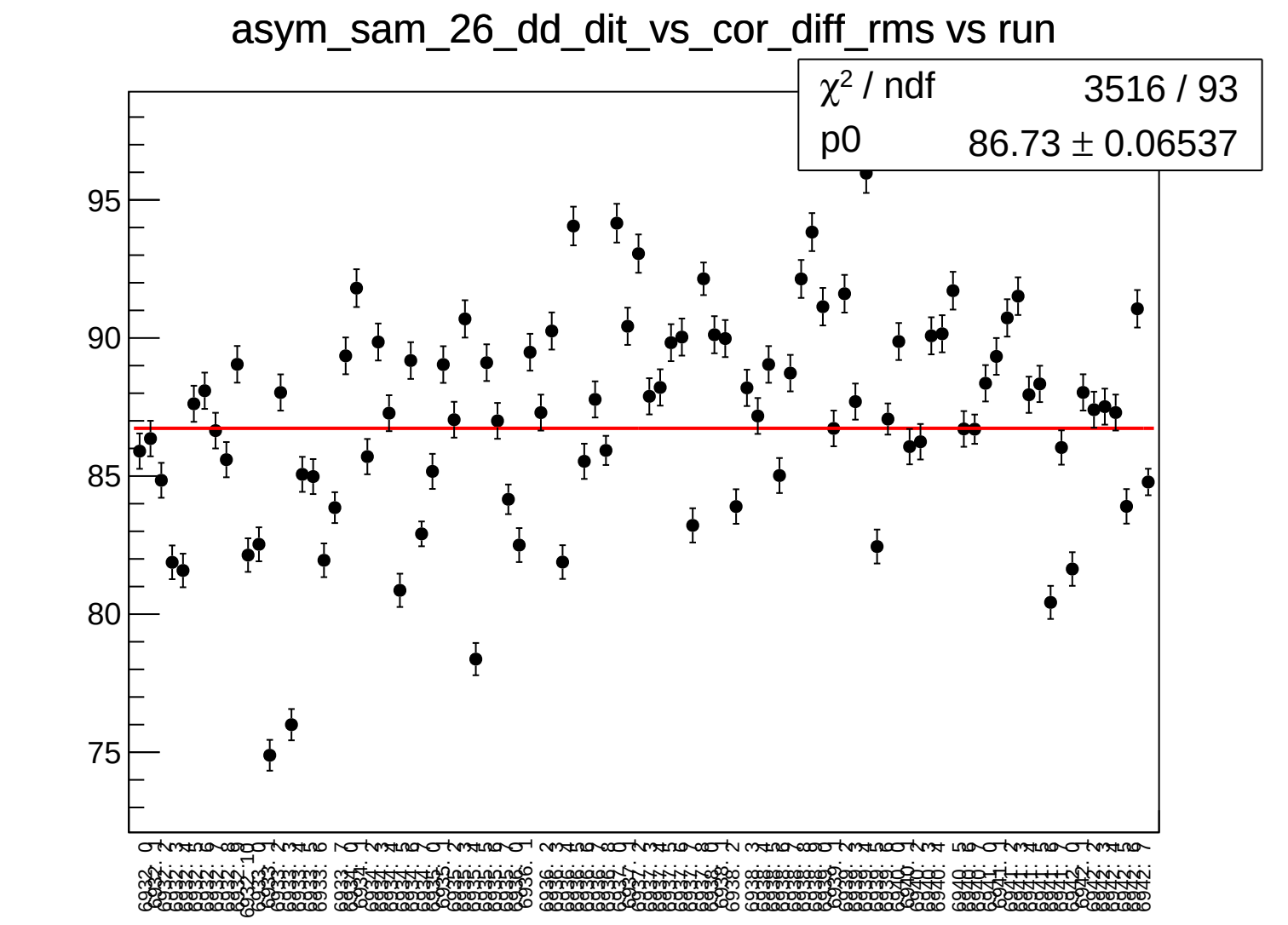

pull1D
Entries 94
Mean −0.00988
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

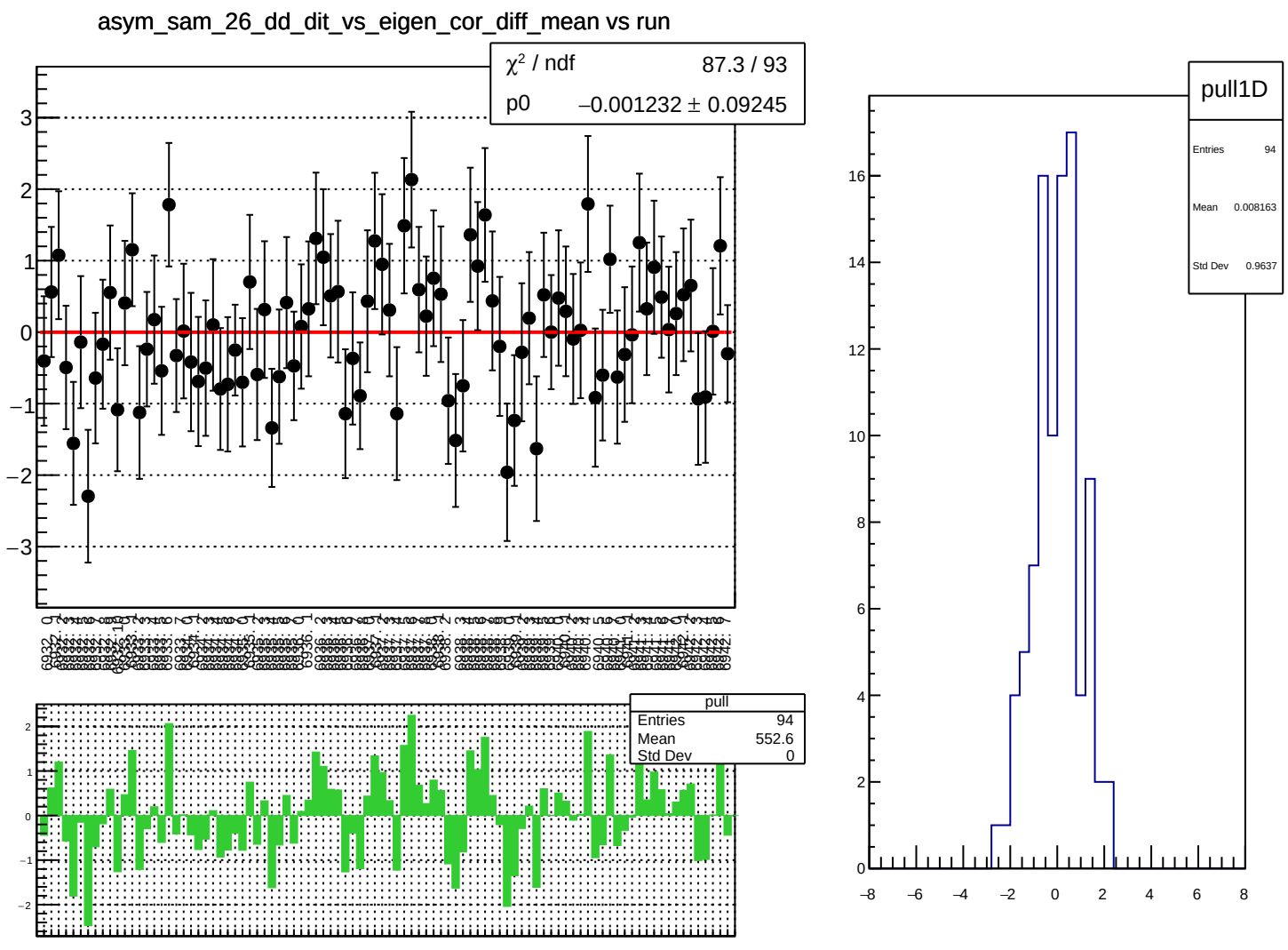

asym_sam_26_dd_rms vs run
χ^2 / ndf 8623 / 93
p0 1625 ± 1.227
2100
2000
1900
1800
1700
1600
1500
1400

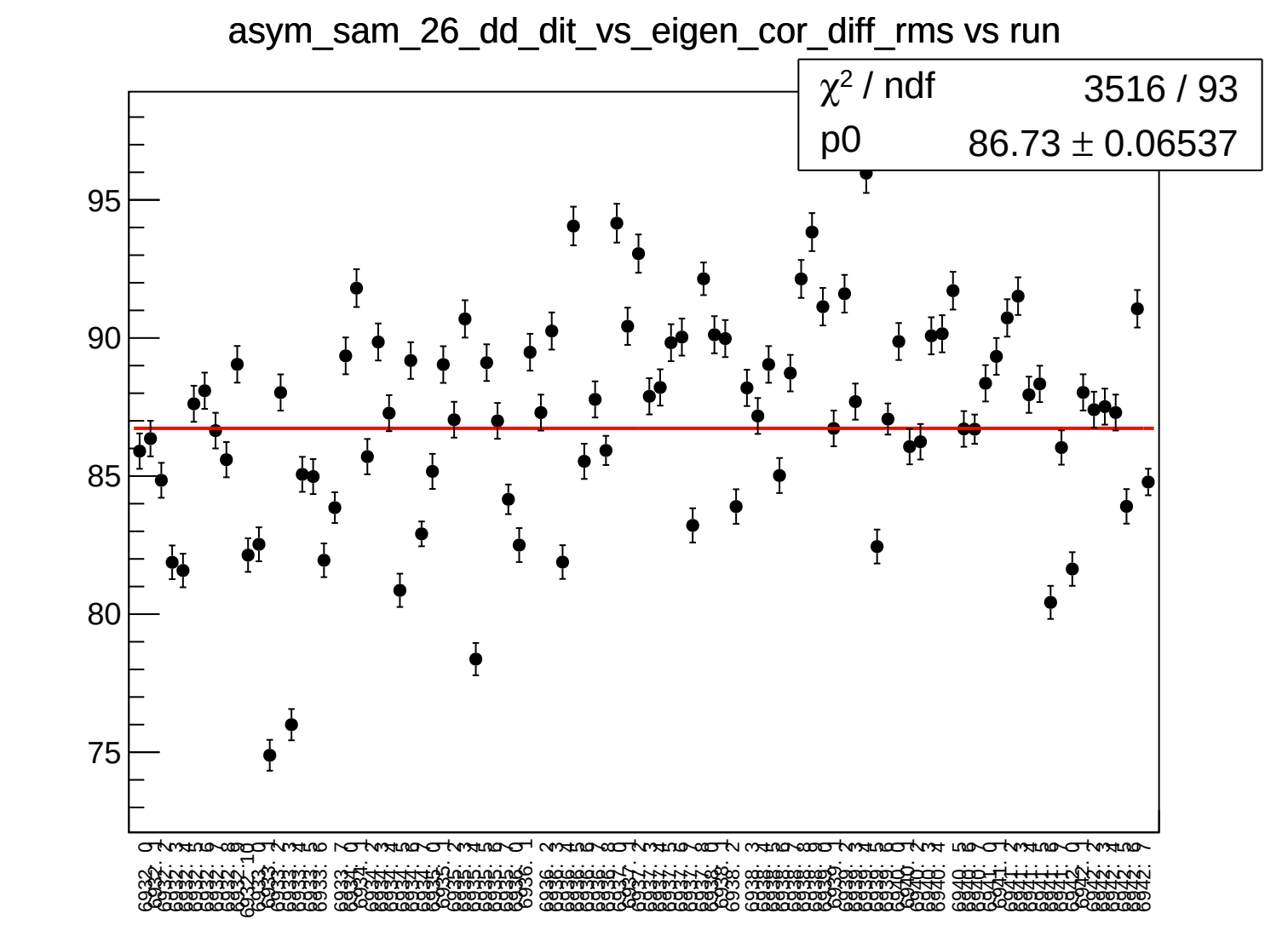

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85 / 93
p0 −1.643e−14 ± 8.906e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 9.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1046
Std Dev 0.9452
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

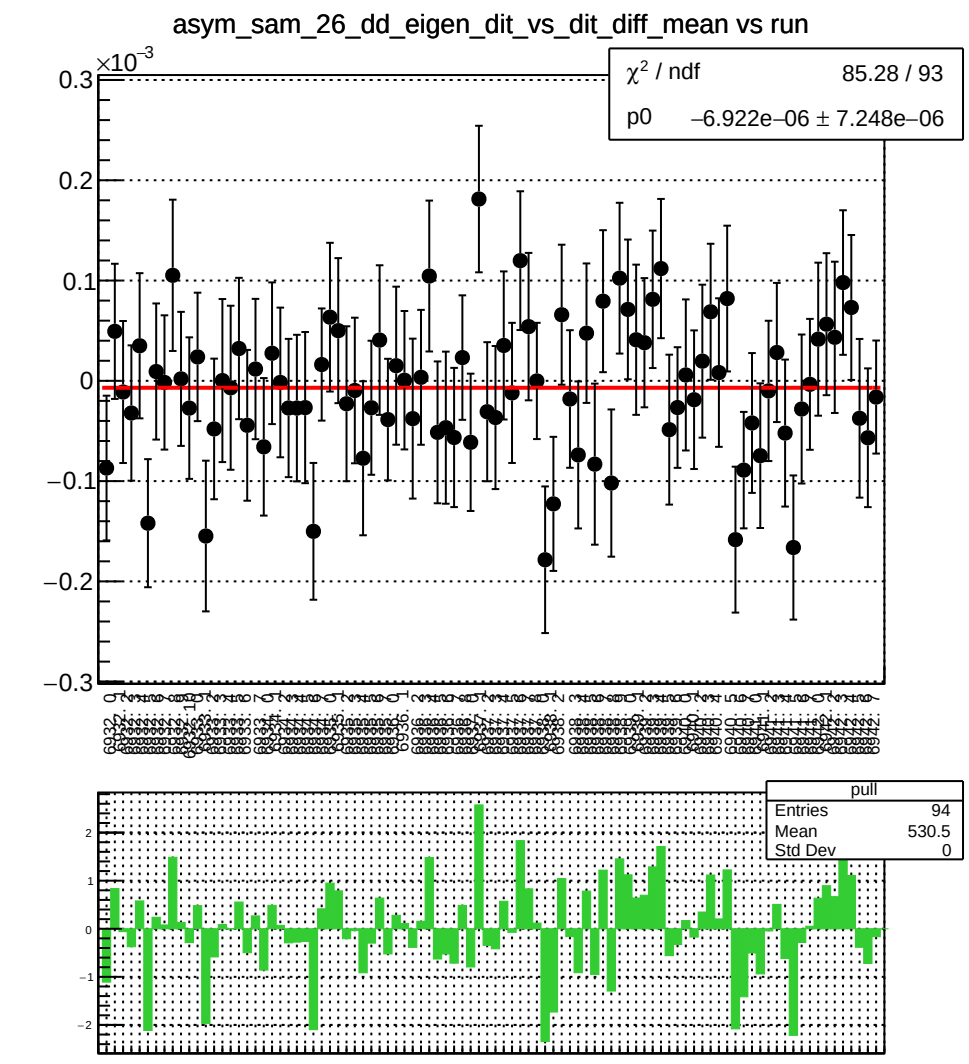

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.196e+05 / 93
p0 5.787e−11 ± 6.298e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

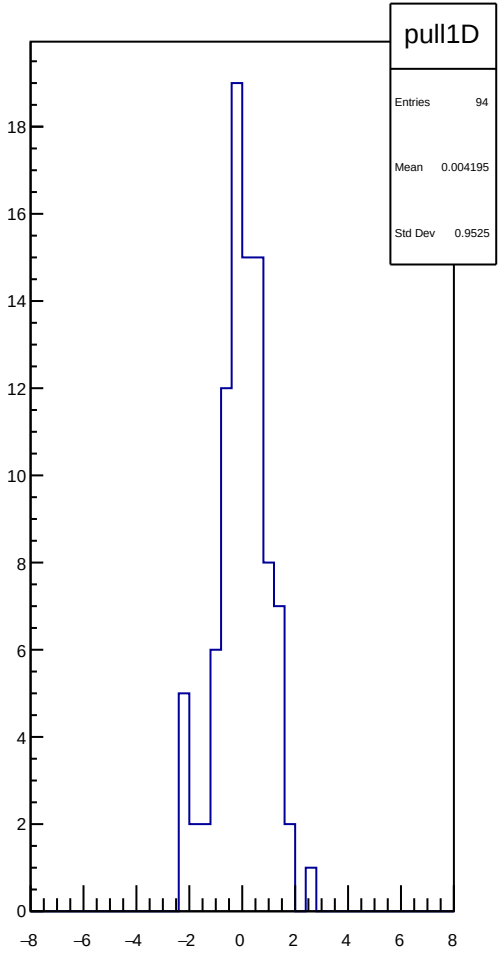

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 93
p0 −0.001232 ± 0.09245
pull
Entries 94
Mean 552.6
Std Dev 0
pull1D
Entries 94
Mean 0.008163
Std Dev 0.9637

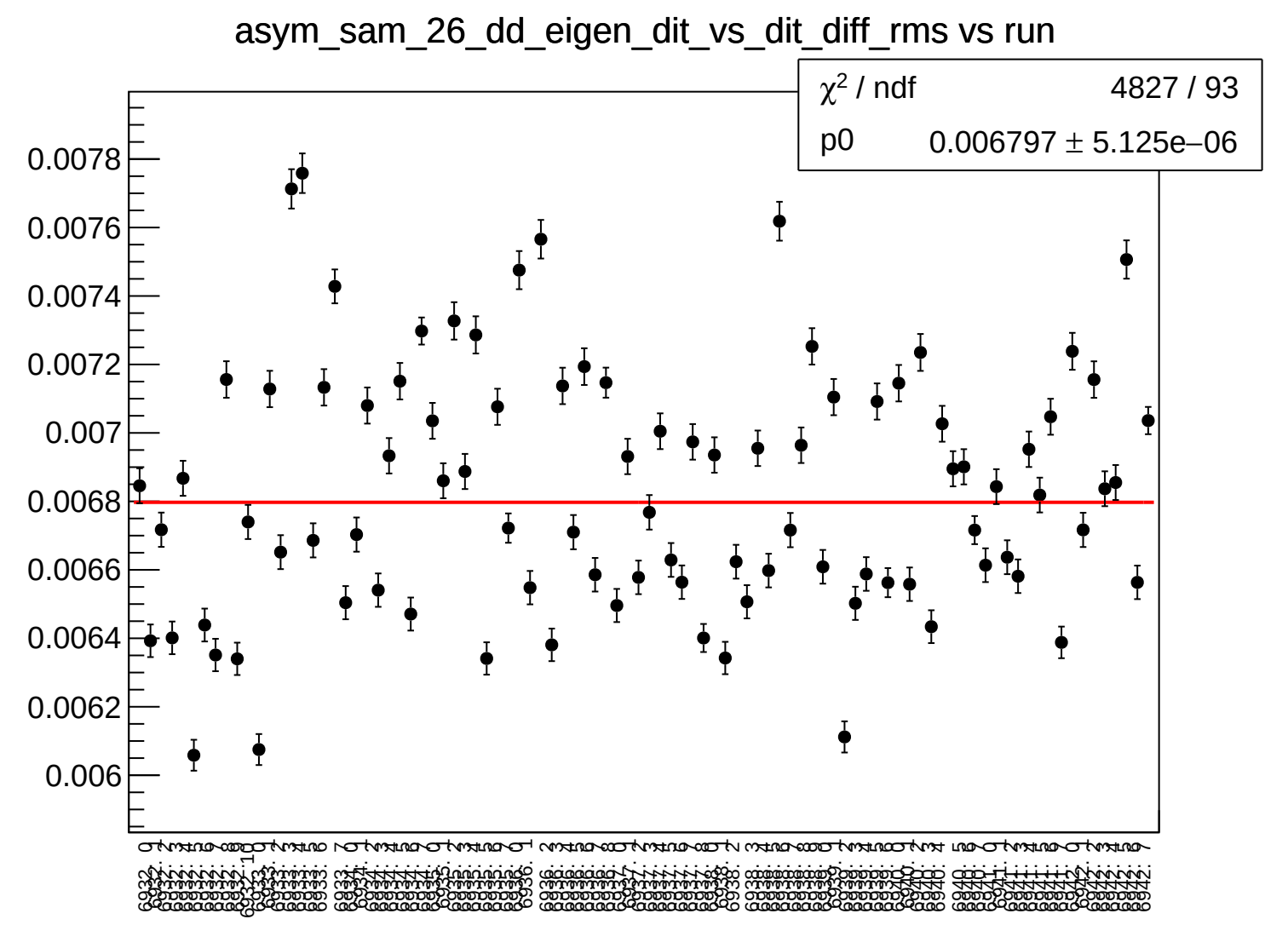

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3516 / 93
p0 86.73 ± 0.06537
95
90
85
80
75

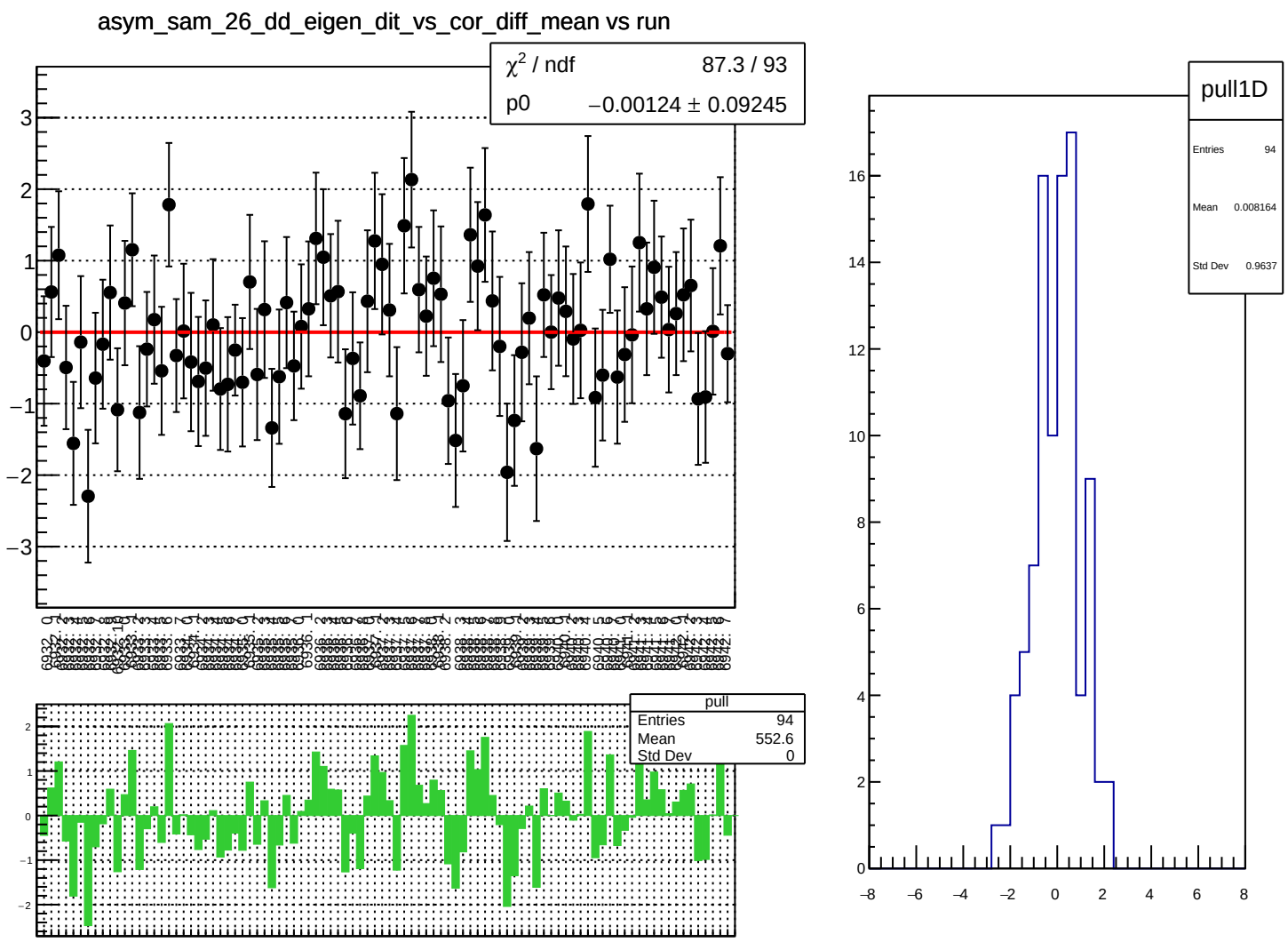

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.3 / 93
p0 −0.001232 ± 0.09245
pull
Entries 94
Mean 552.6
Std Dev 0
pull1D
Entries 94
Mean 0.008163
Std Dev 0.9637

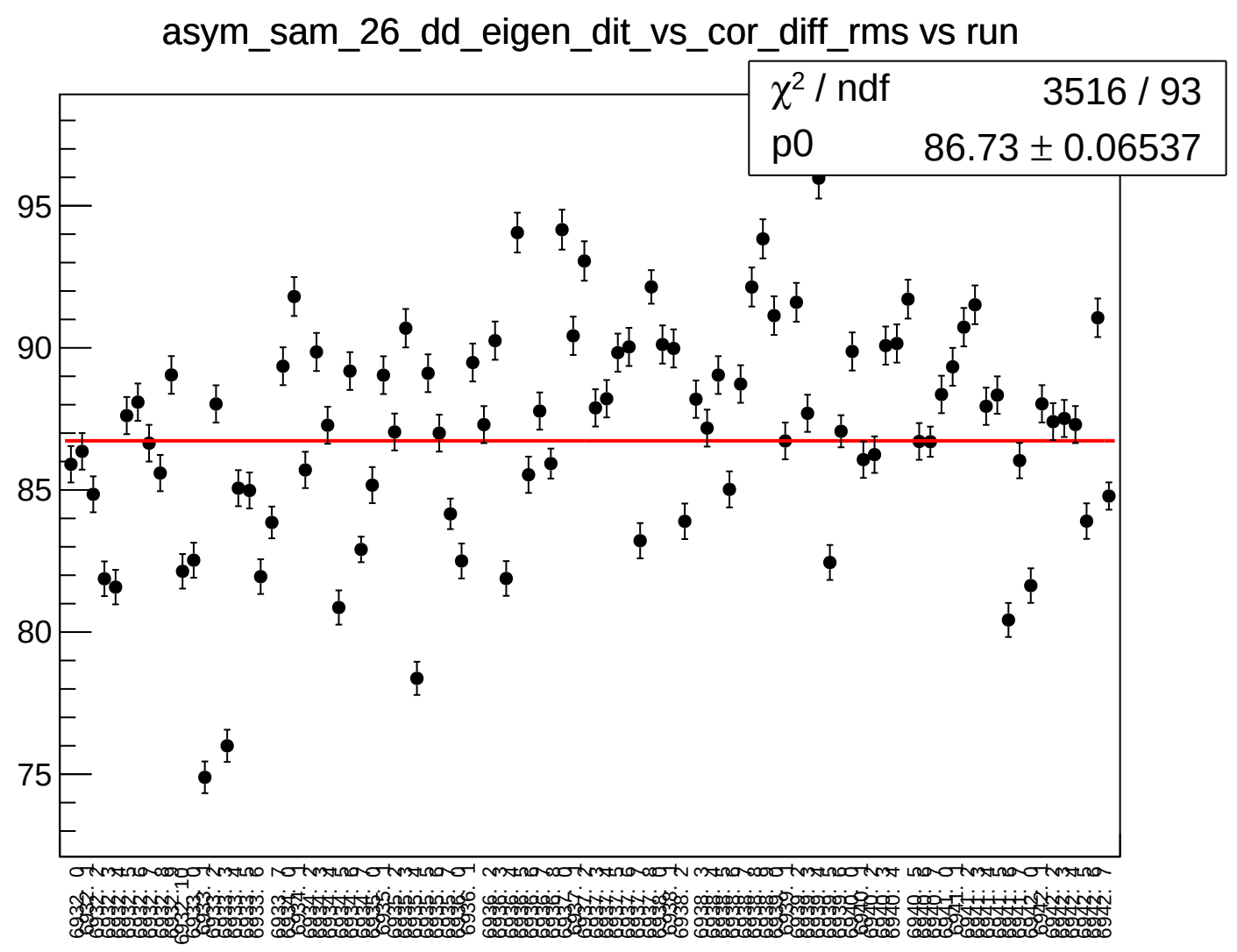

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3516 / 93
p0 86.73 ± 0.06537
95
90
85
80
75

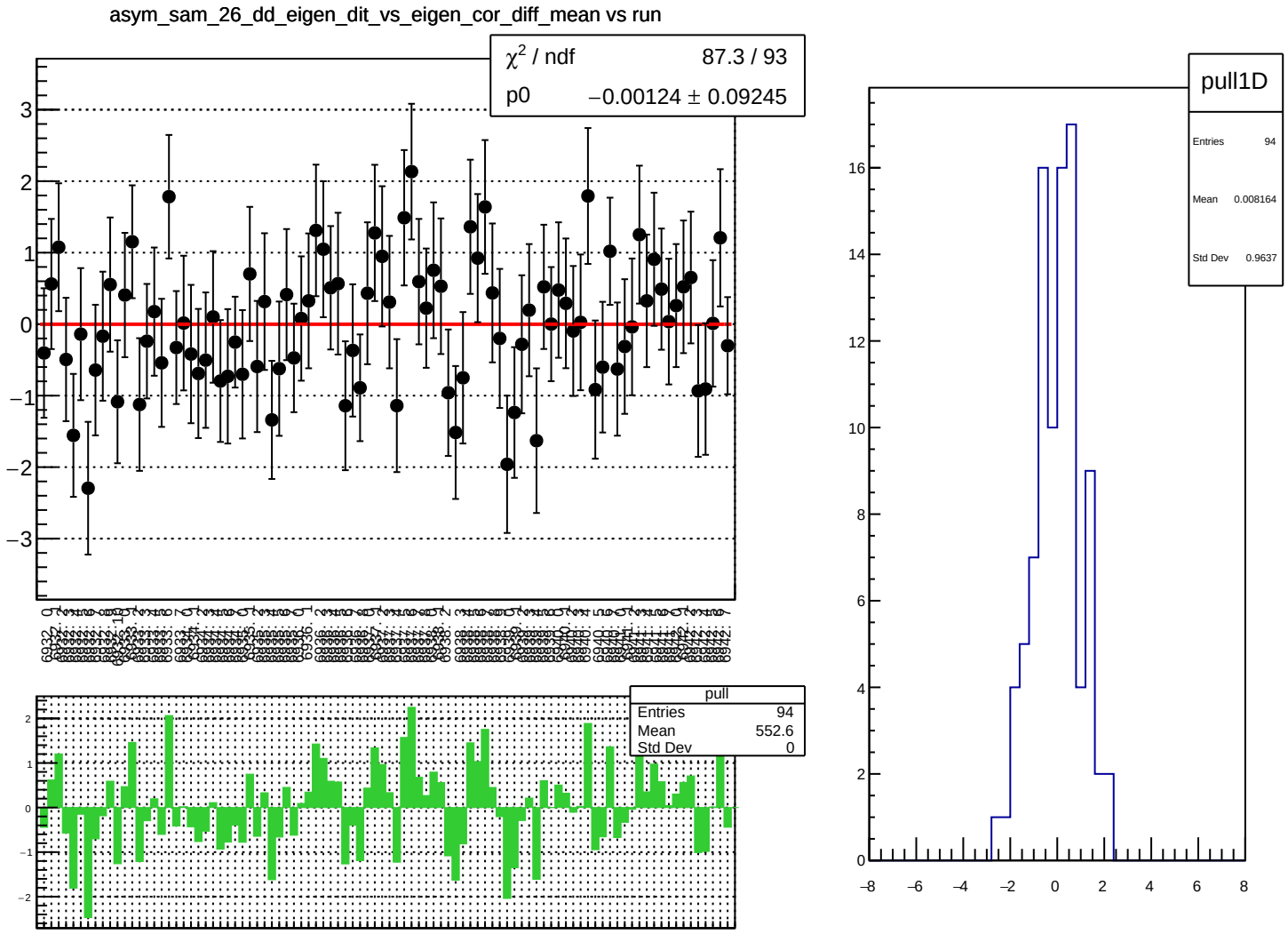

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.28 / 93
p0 −6.922e−06 ± 7.248e−06
×10⁻³
pull
Entries 94
Mean 530.5
Std Dev 0

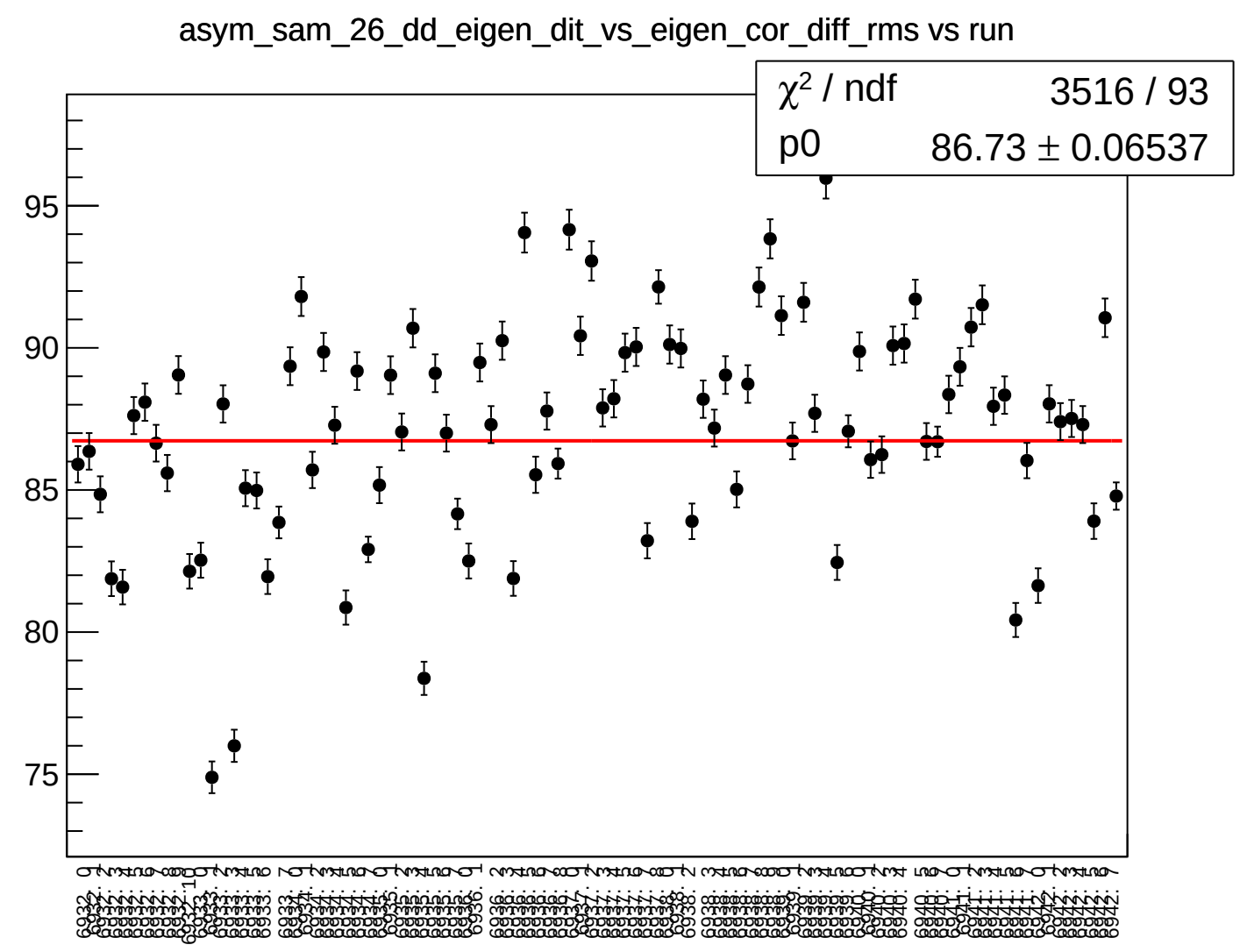

pull1D
Entries 94
Mean 0.004195
Std Dev 0.9525

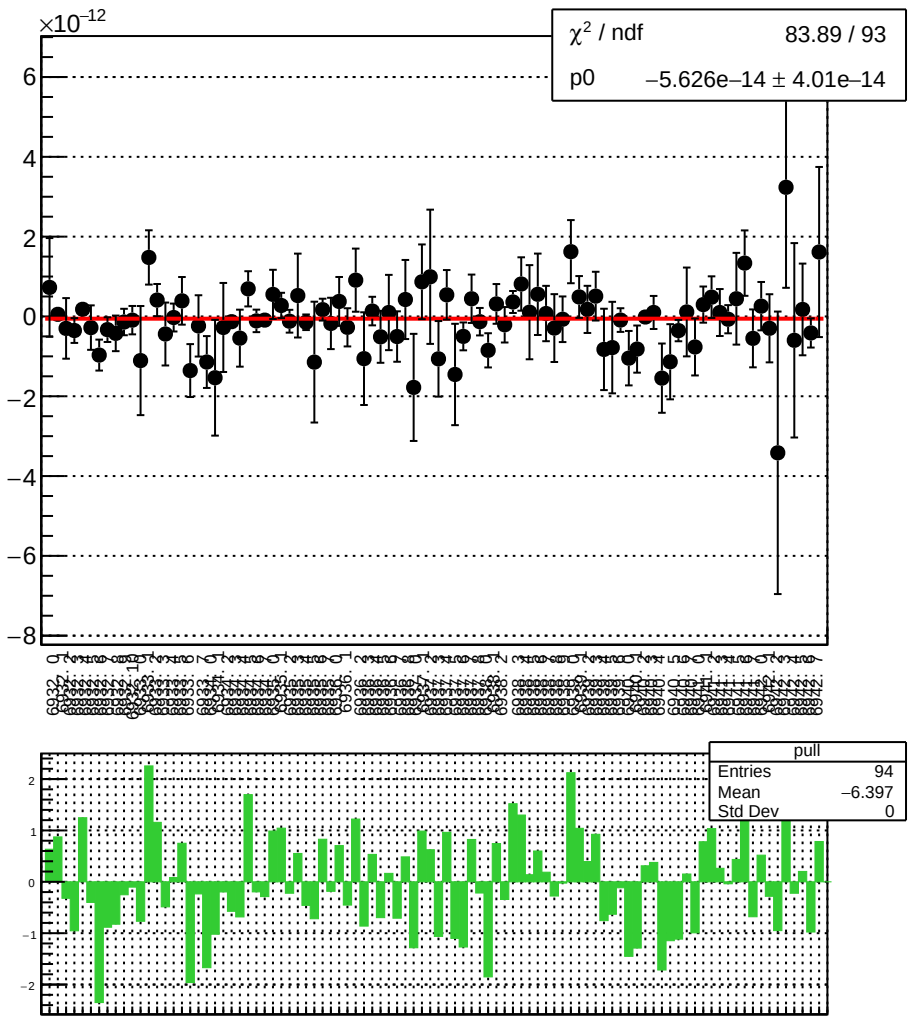

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4827 / 93
p0 0.006797 ± 5.125e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006

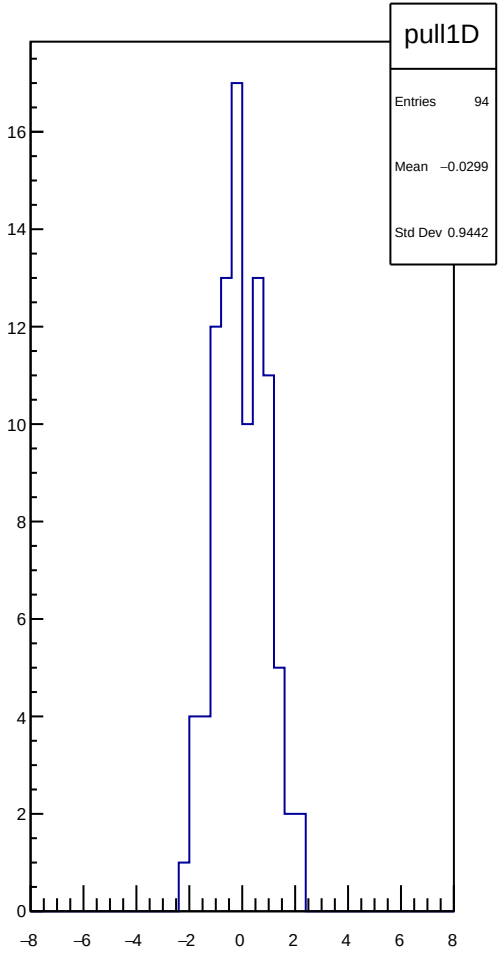

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.3 / 93
p0 −0.00124 ± 0.09245
pull
Entries 94
Mean 552.6
Std Dev 0
pull1D
Entries 94
Mean 0.008164
Std Dev 0.9637

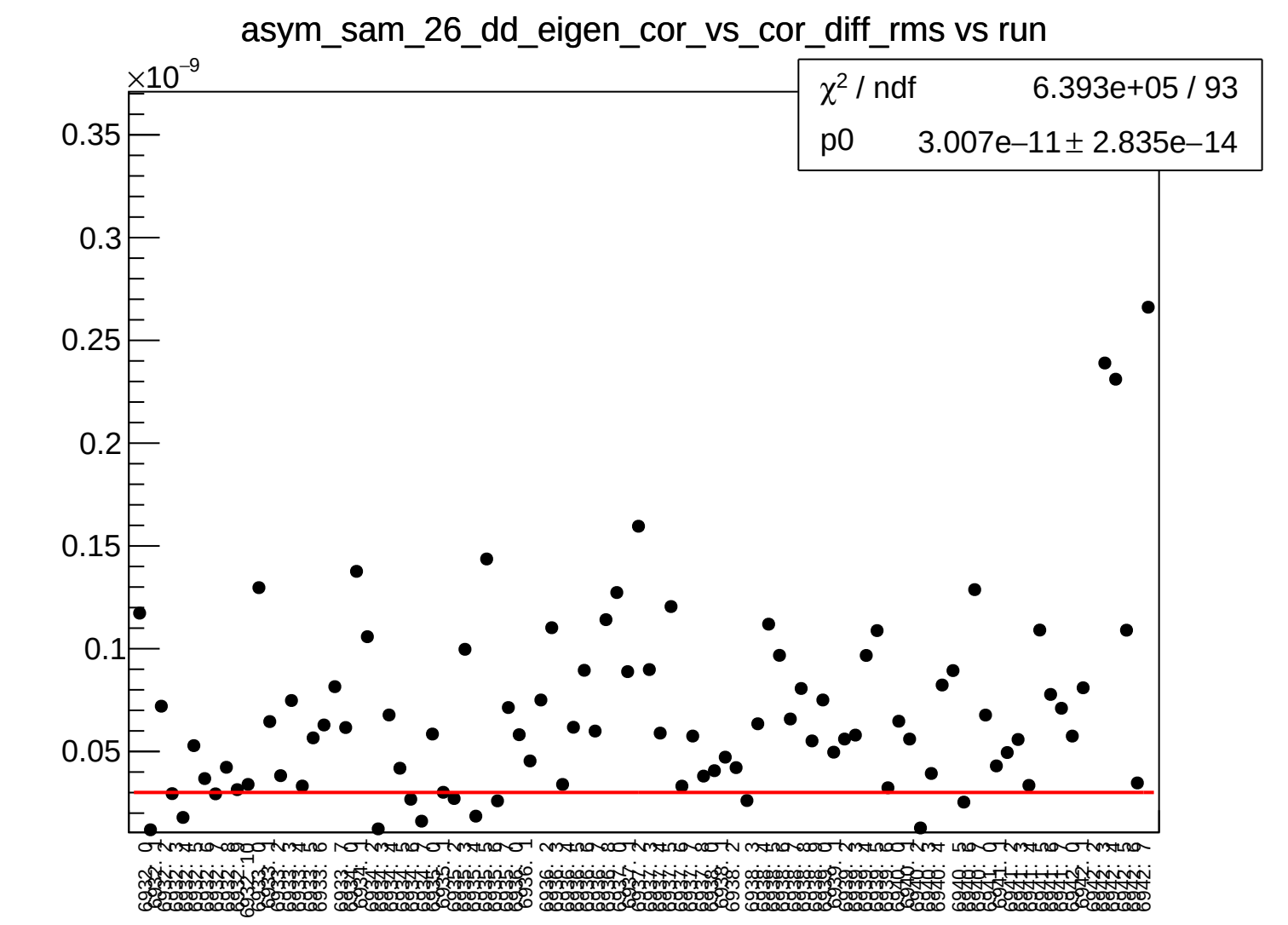

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3516 / 93
p0 86.73 ± 0.06537
95
90
85
80
75

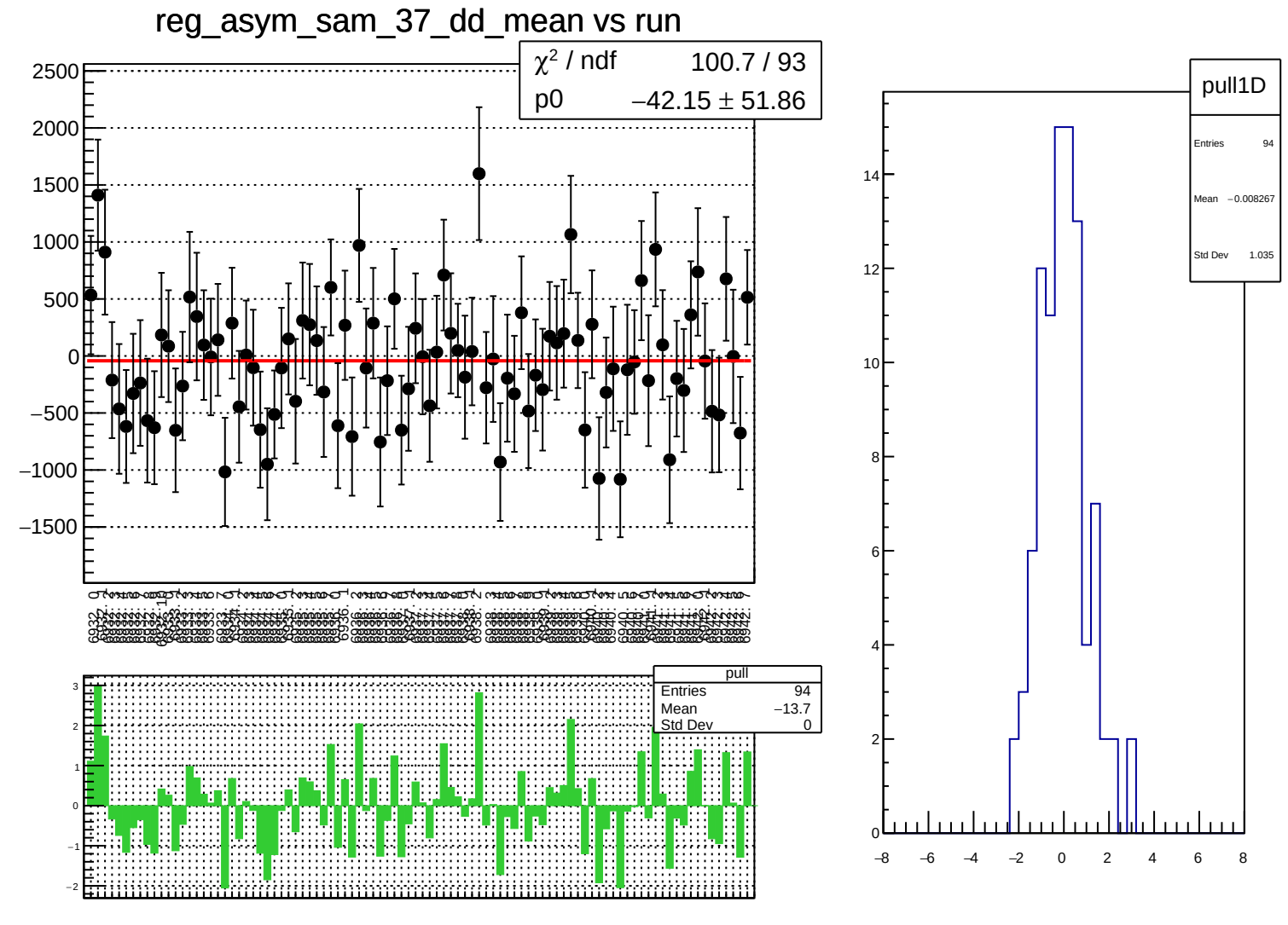

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.3 / 93
p0 −0.00124 ± 0.09245
pull
Entries 94
Mean 552.6
Std Dev 0
pull1D
Entries 94
Mean 0.008164
Std Dev 0.9637

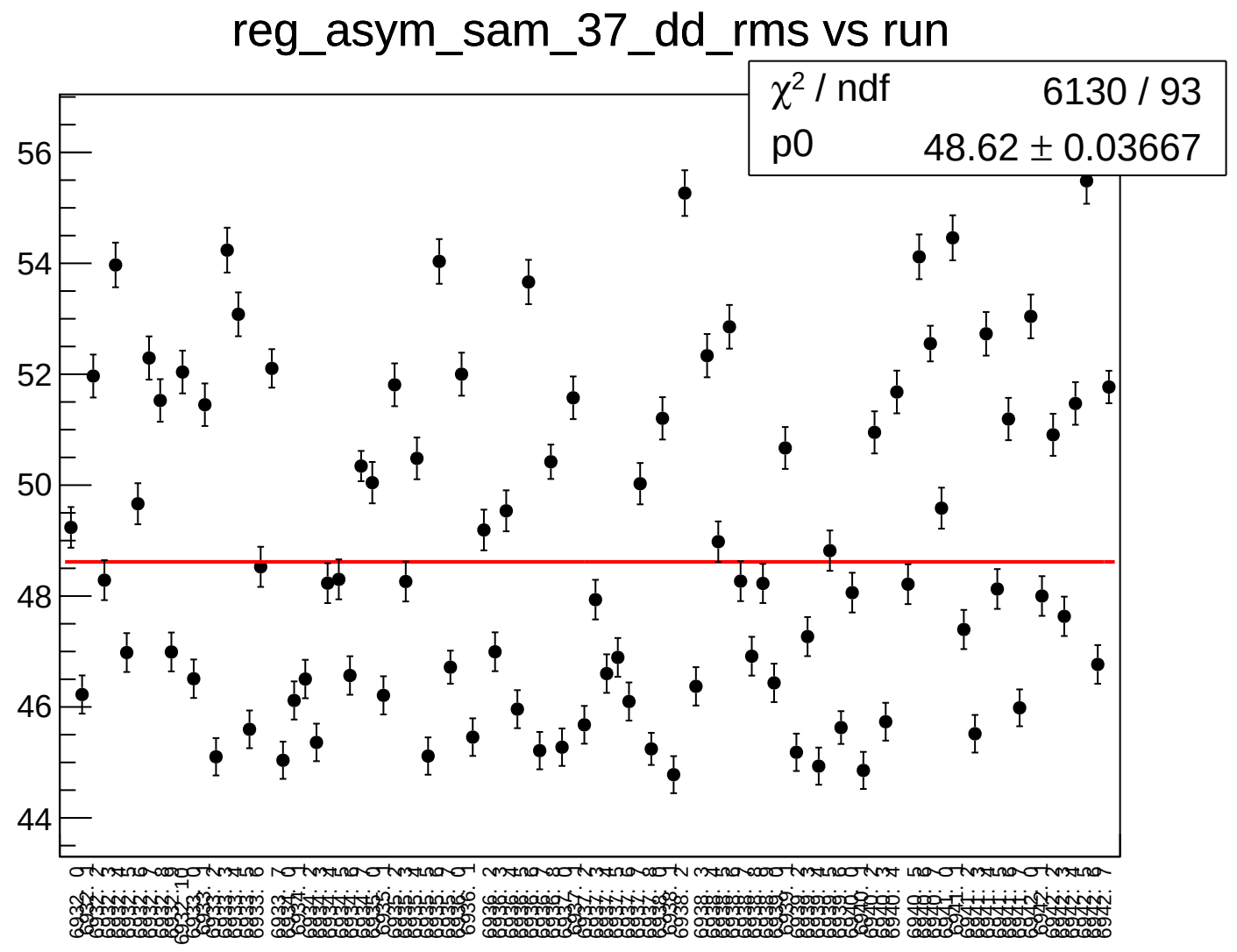

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3516 / 93
p0 86.73 ± 0.06537
95
90
85
80
75

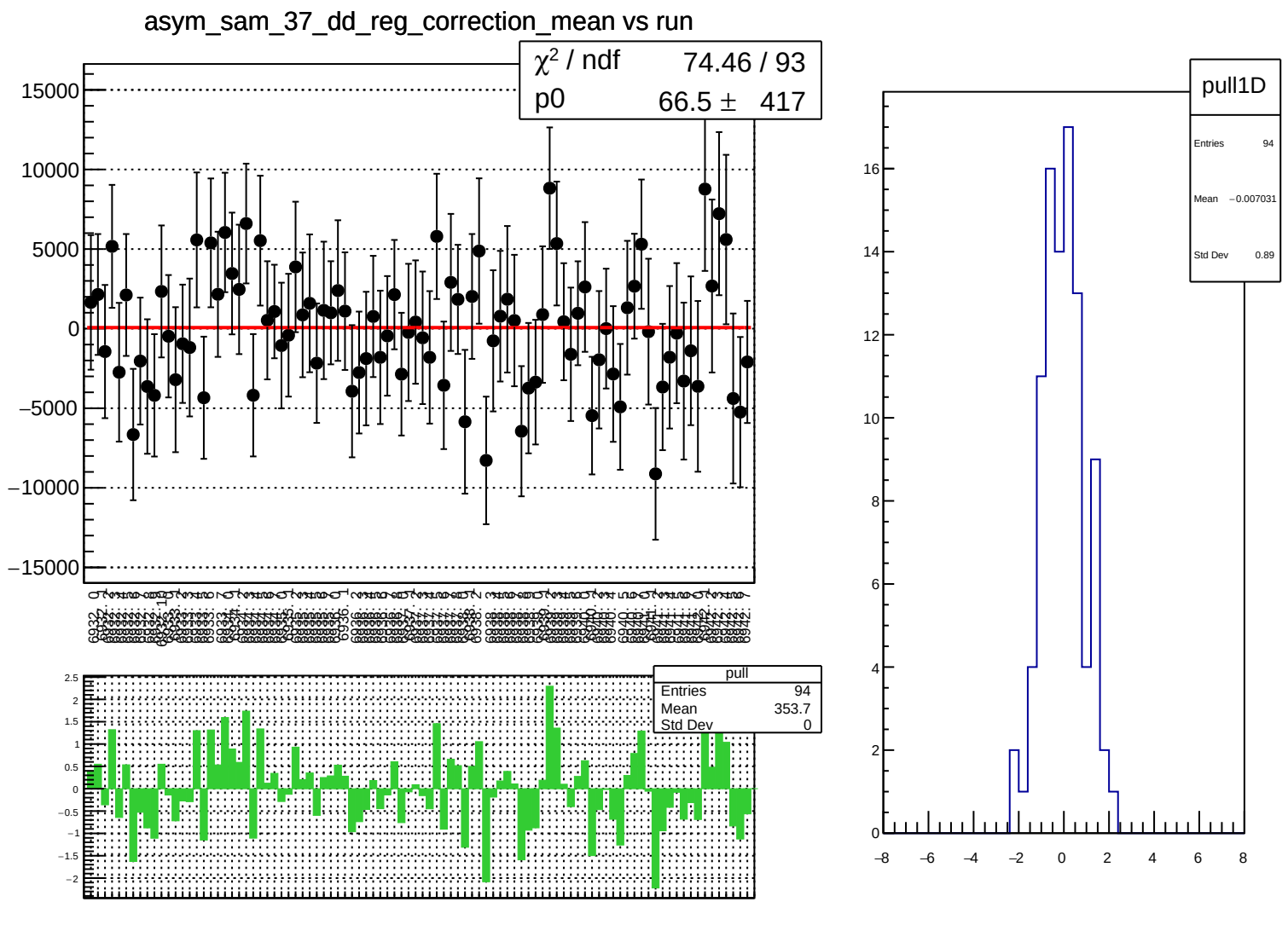

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.89 / 93
p0 −5.626e−14 ± 4.01e−14
pull
Entries 94
Mean −6.397
Std Dev 0

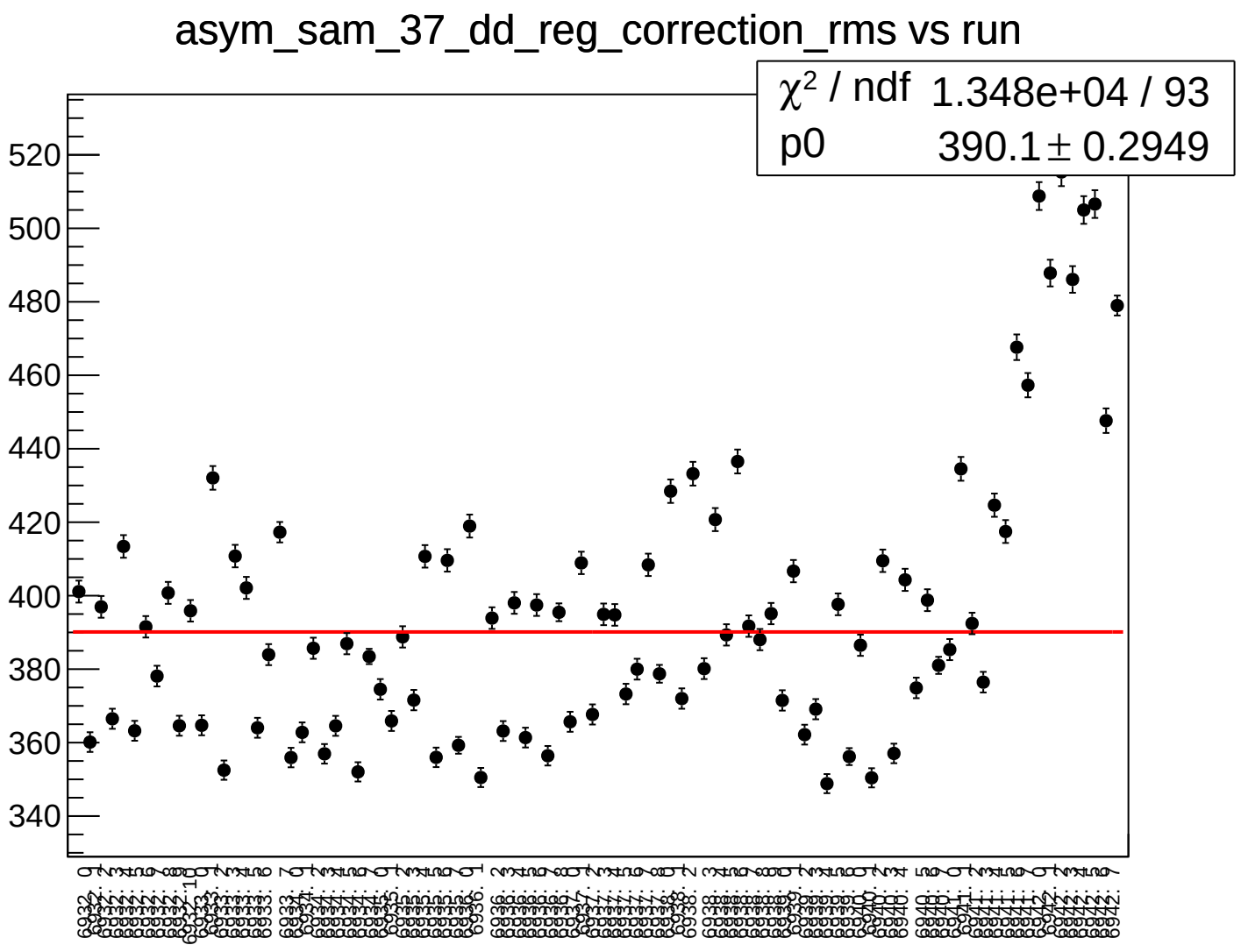

pull1D
Entries 94
Mean −0.0299
Std Dev 0.9442

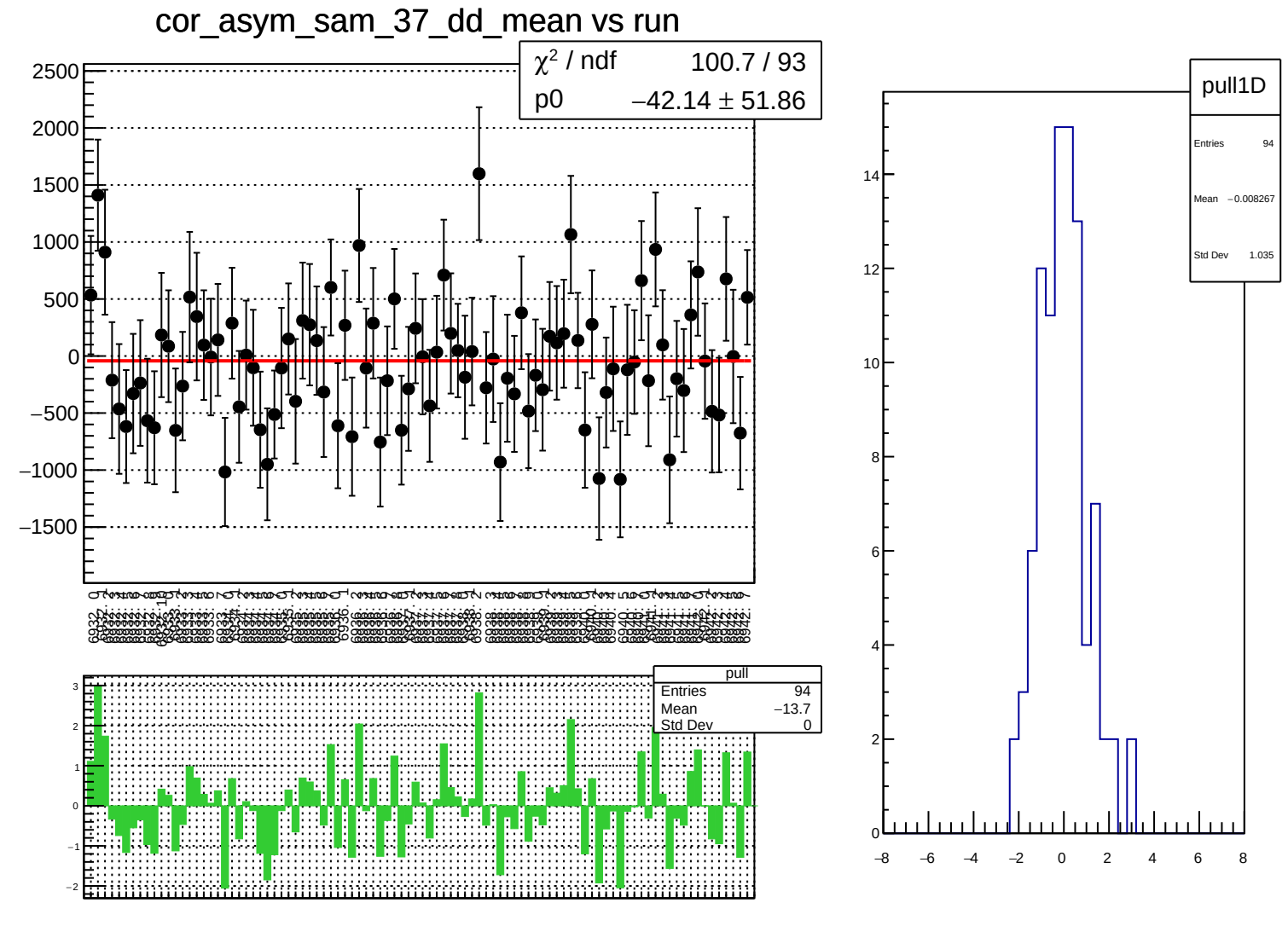

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.393e+05 / 93
p0 3.007e−11 ± 2.835e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

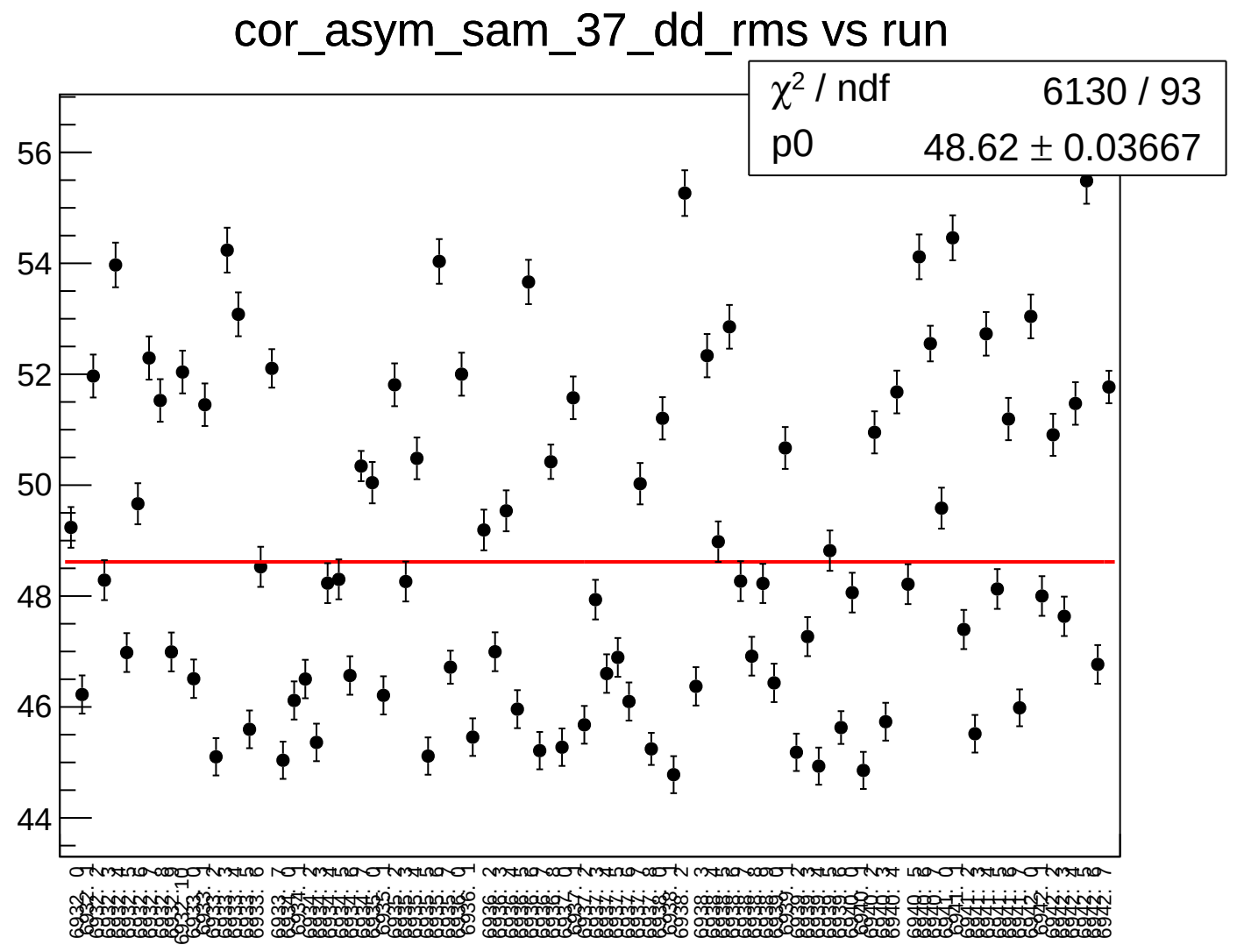

reg_asym_sam_37_dd_mean vs run
χ² / ndf 100.7 / 93
p0 −42.15 ± 51.86
pull
Entries 94
Mean −13.7
Std Dev 0
pull1D
Entries 94
Mean −0.008267
Std Dev 1.035

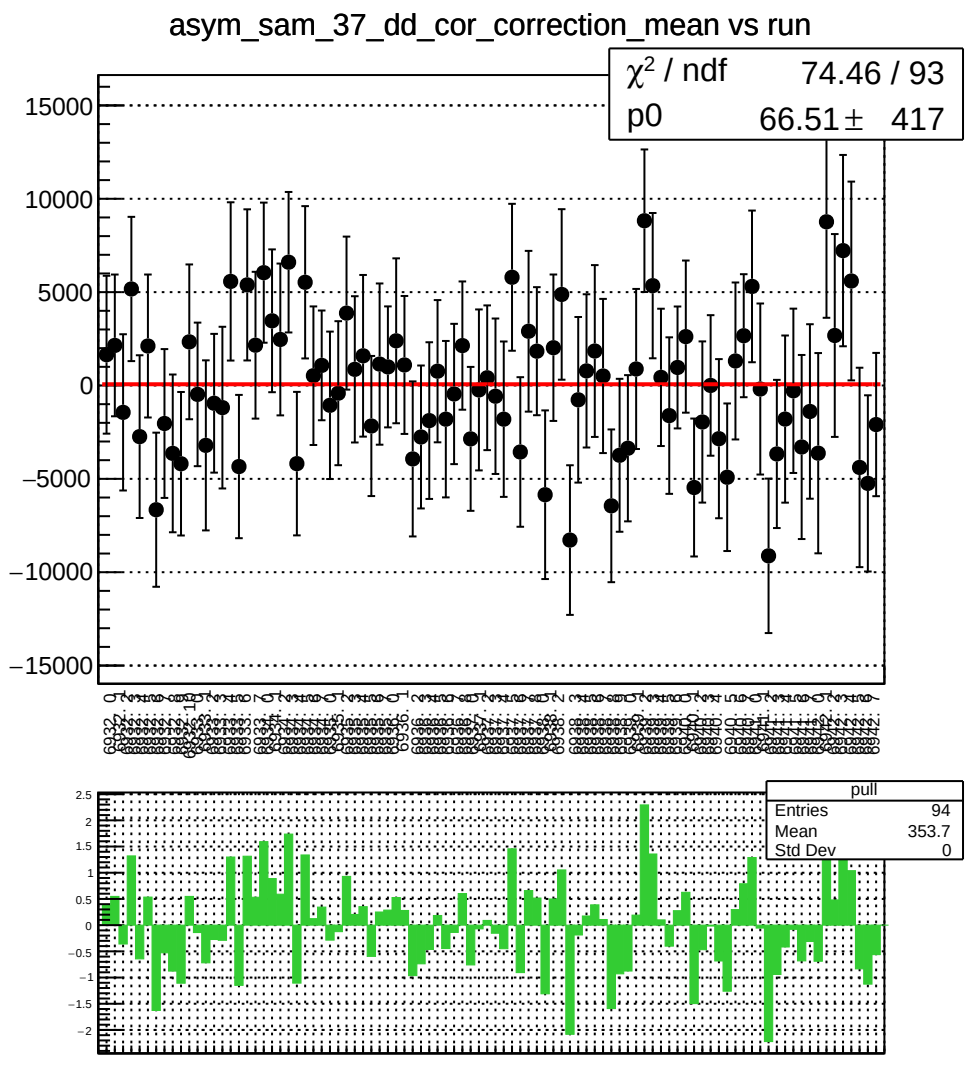

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6130 / 93
p0 48.62 ± 0.03667
56
54
52
50
48
46
44

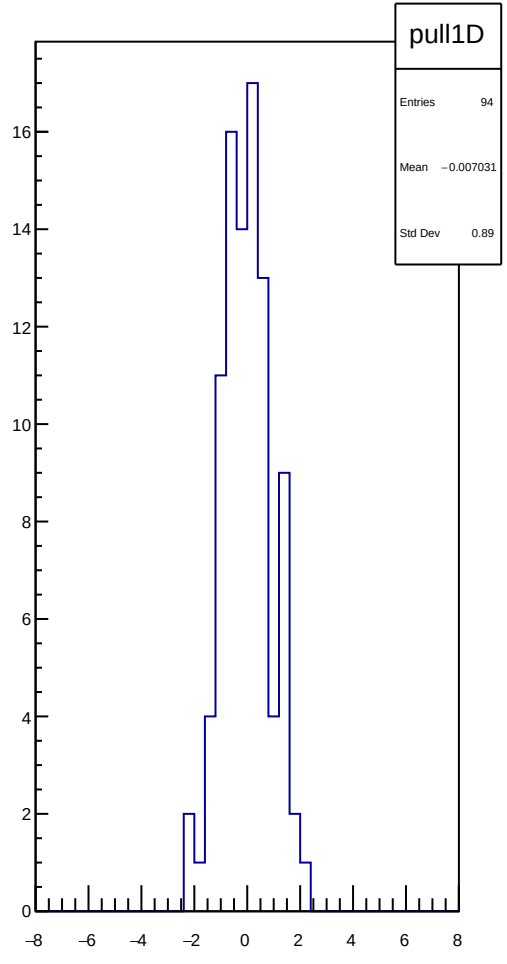

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 74.46 / 93
p0 66.5 ± 417
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 353.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007031
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

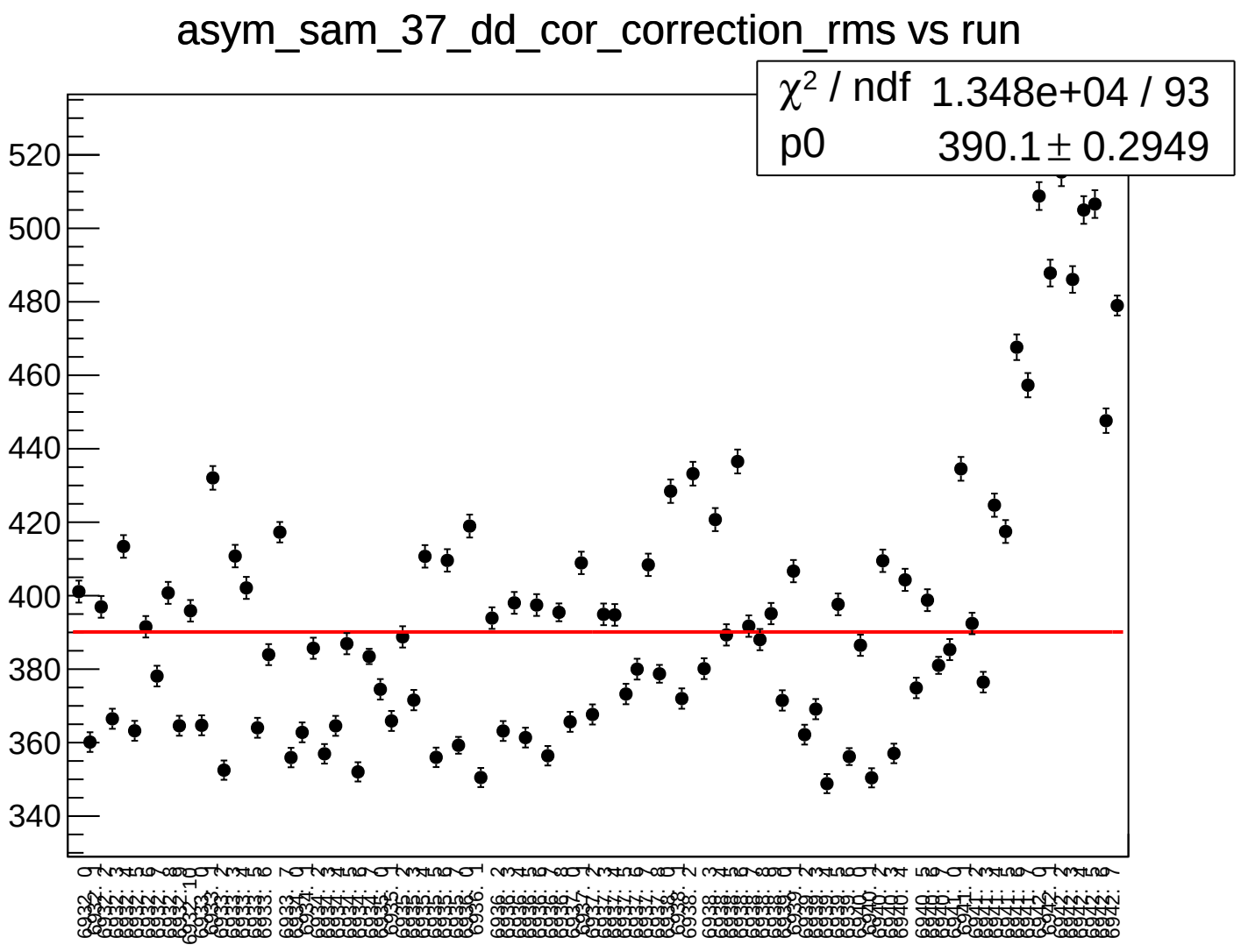

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.348e+04 / 93
p0 390.1 ± 0.2949
520
500
480
460
440
420
400
380
360
340

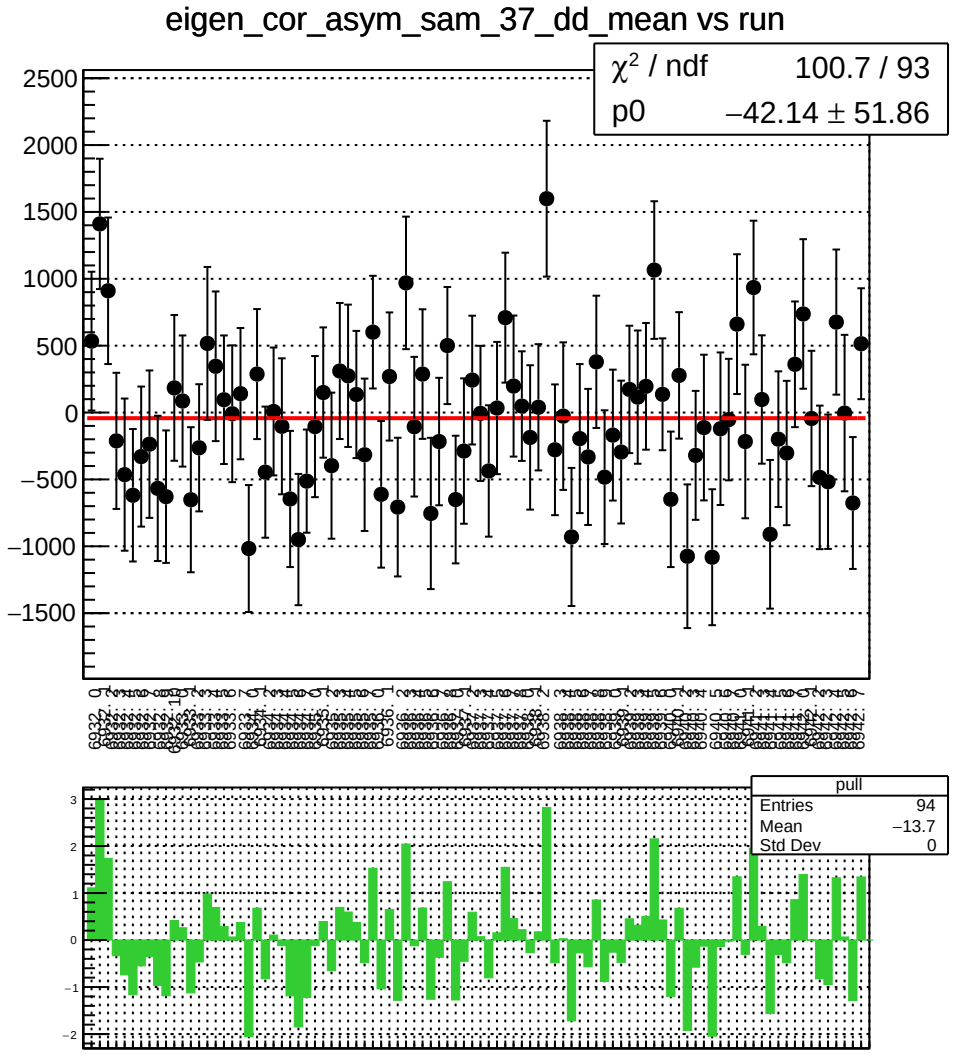

cor_asym_sam_37_dd_mean vs run
χ² / ndf 100.7 / 93
p0 −42.14 ± 51.86
pull
Entries 94
Mean −13.7
Std Dev 0
pull1D
Entries 94
Mean −0.008267
Std Dev 1.035

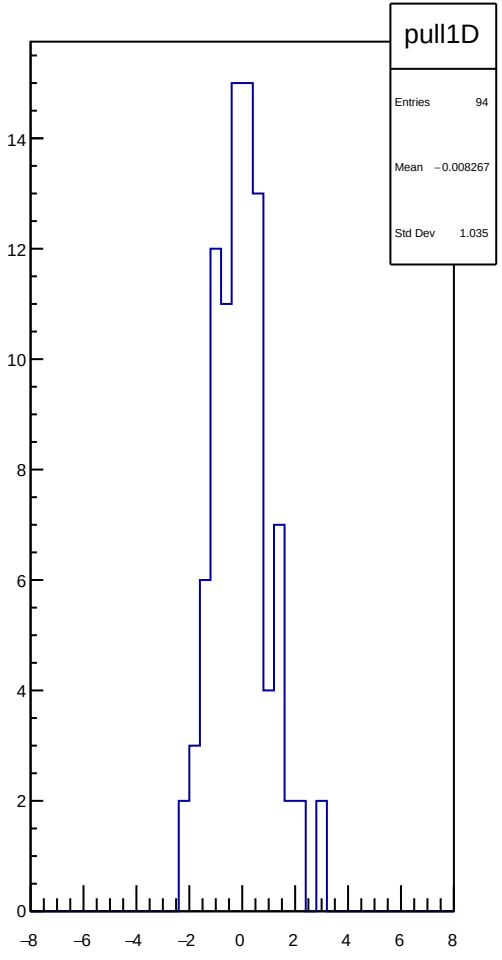

cor_asym_sam_37_dd_rms vs run
χ² / ndf 6130 / 93
p0 48.62 ± 0.03667
56
54
52
50
48
46
44

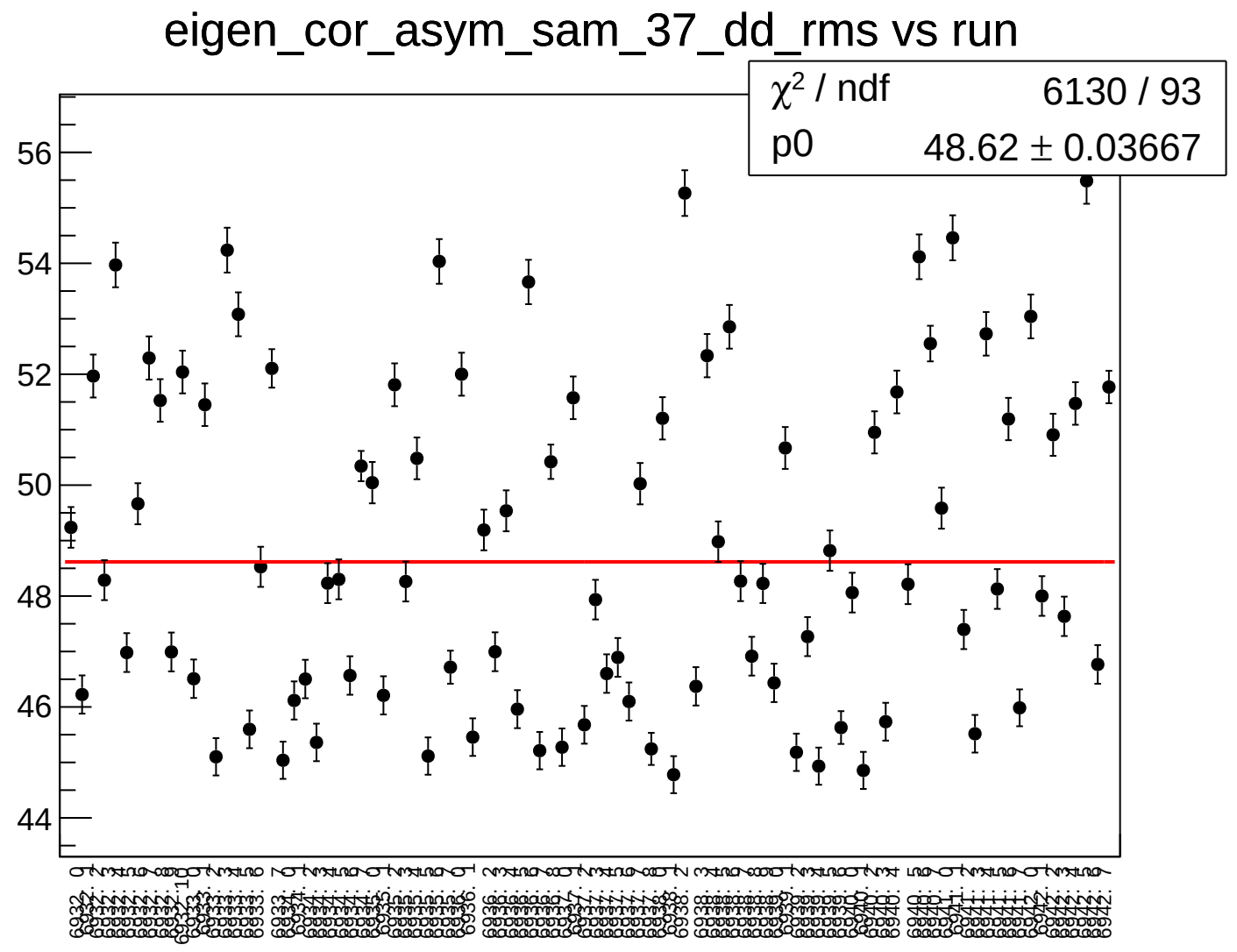

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 74.46 / 93
p0 66.51 ± 417
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 353.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

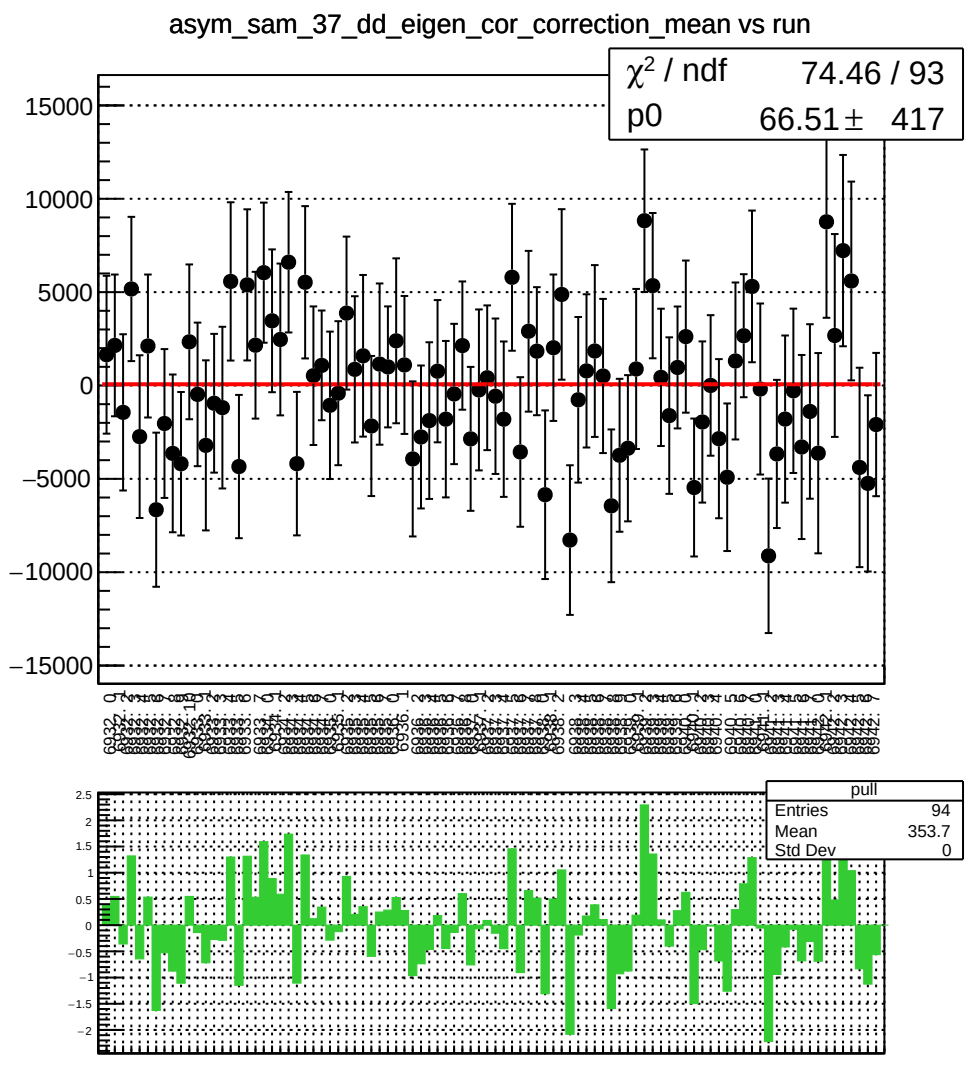

pull1D
Entries 94
Mean −0.007031
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

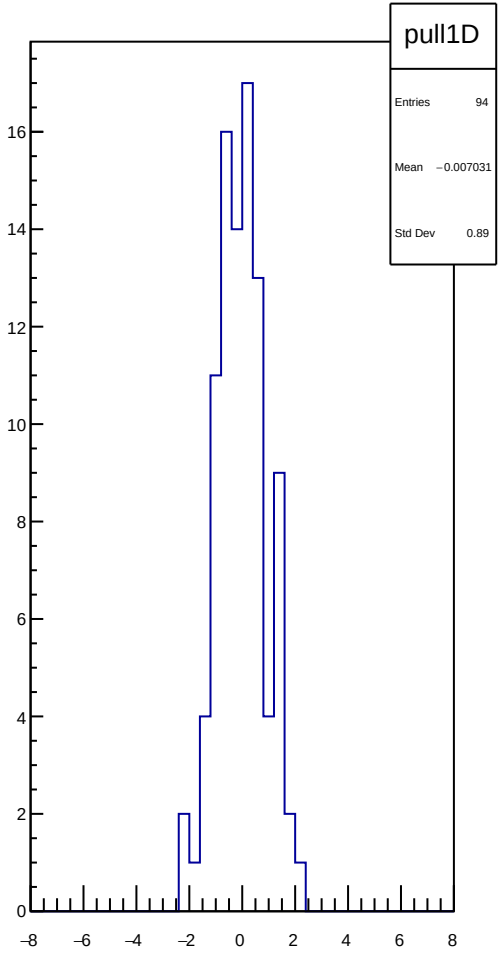

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.348e+04 / 93
p0 390.1 ± 0.2949
520
500
480
460
440
420
400
380
360
340

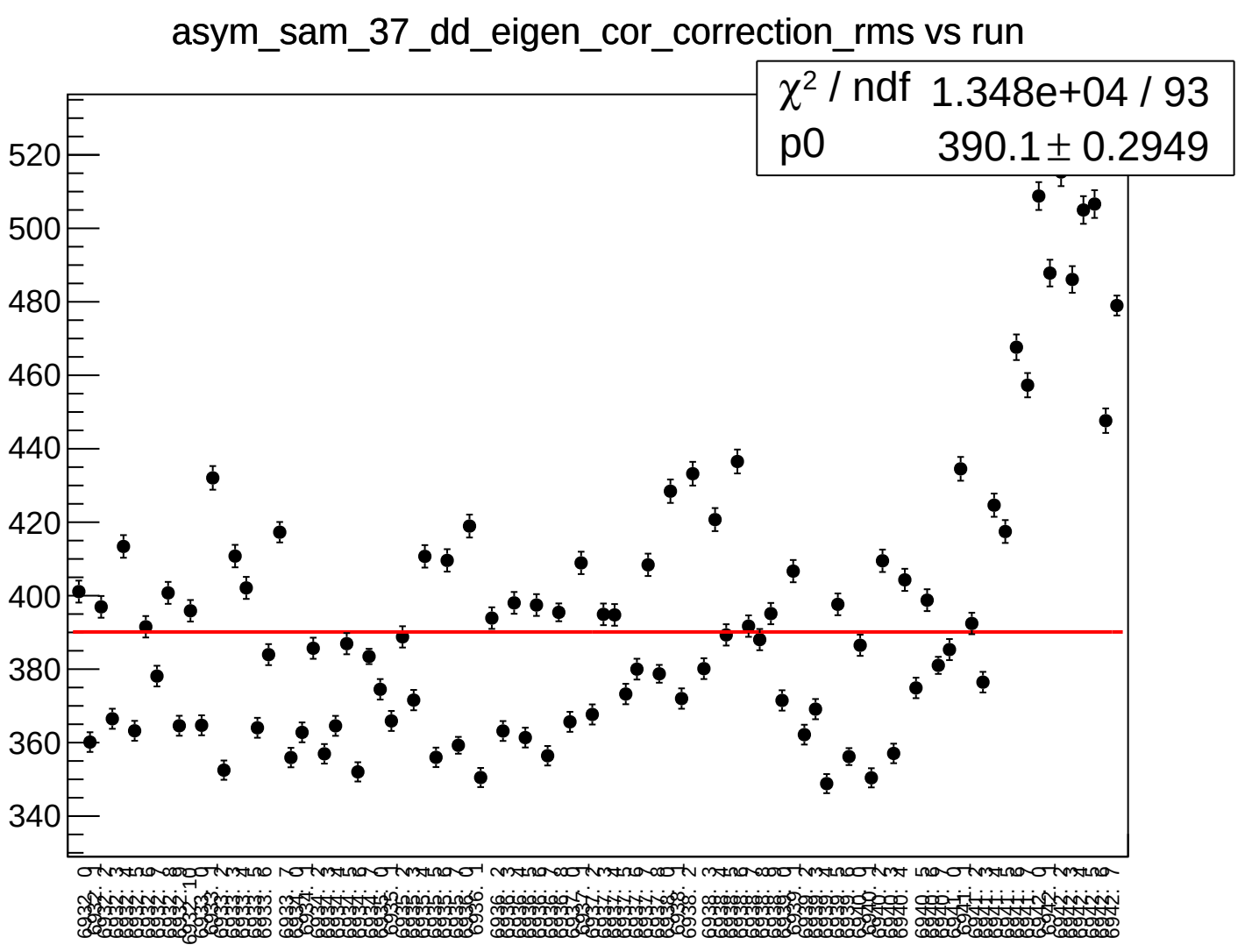

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 100.7 / 93
p0 −42.14 ± 51.86
pull
Entries 94
Mean −13.7
Std Dev 0

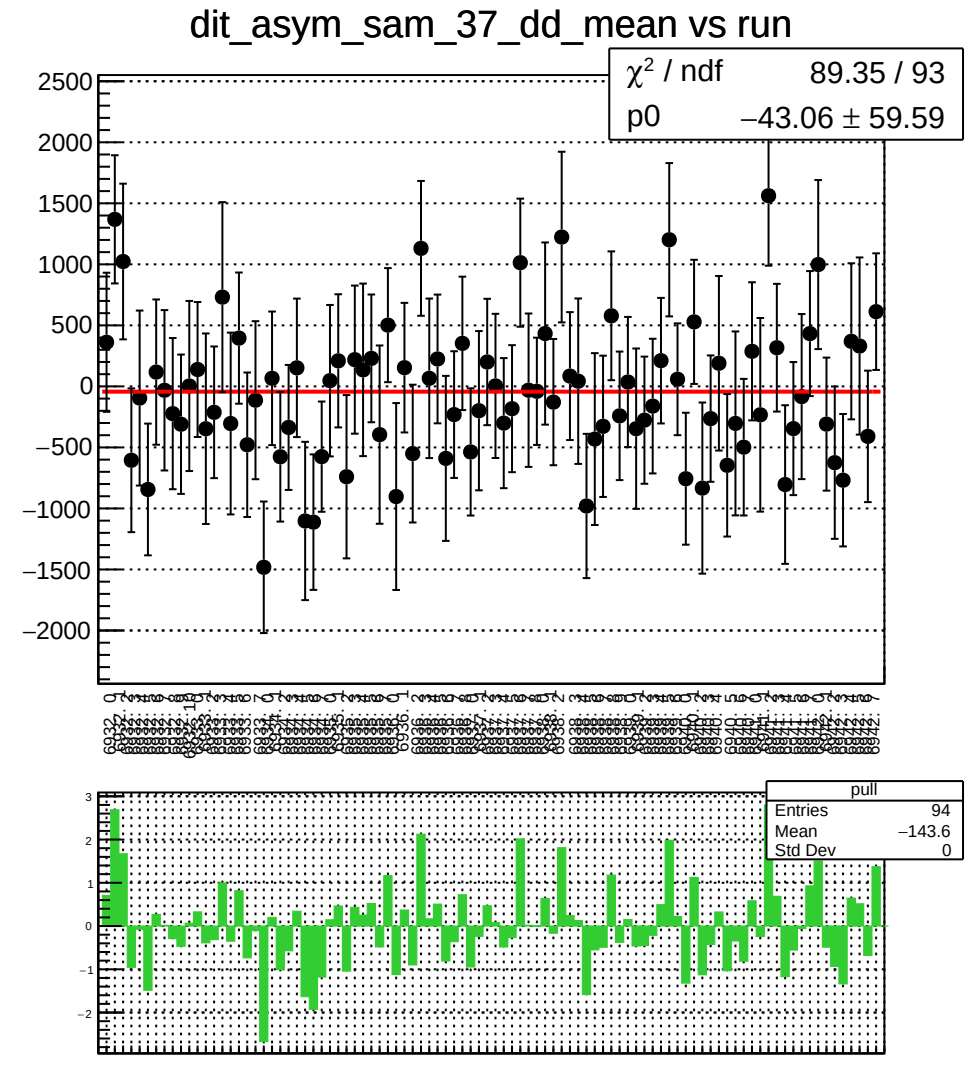

pull1D
Entries 94
Mean −0.008267
Std Dev 1.035

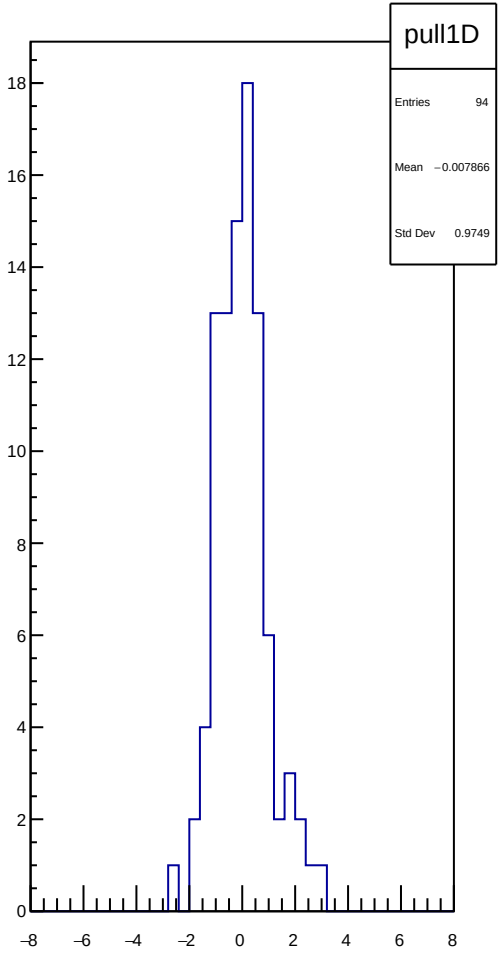

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 6130 / 93
p0 48.62 ± 0.03667
56
54
52
50
48
46
44

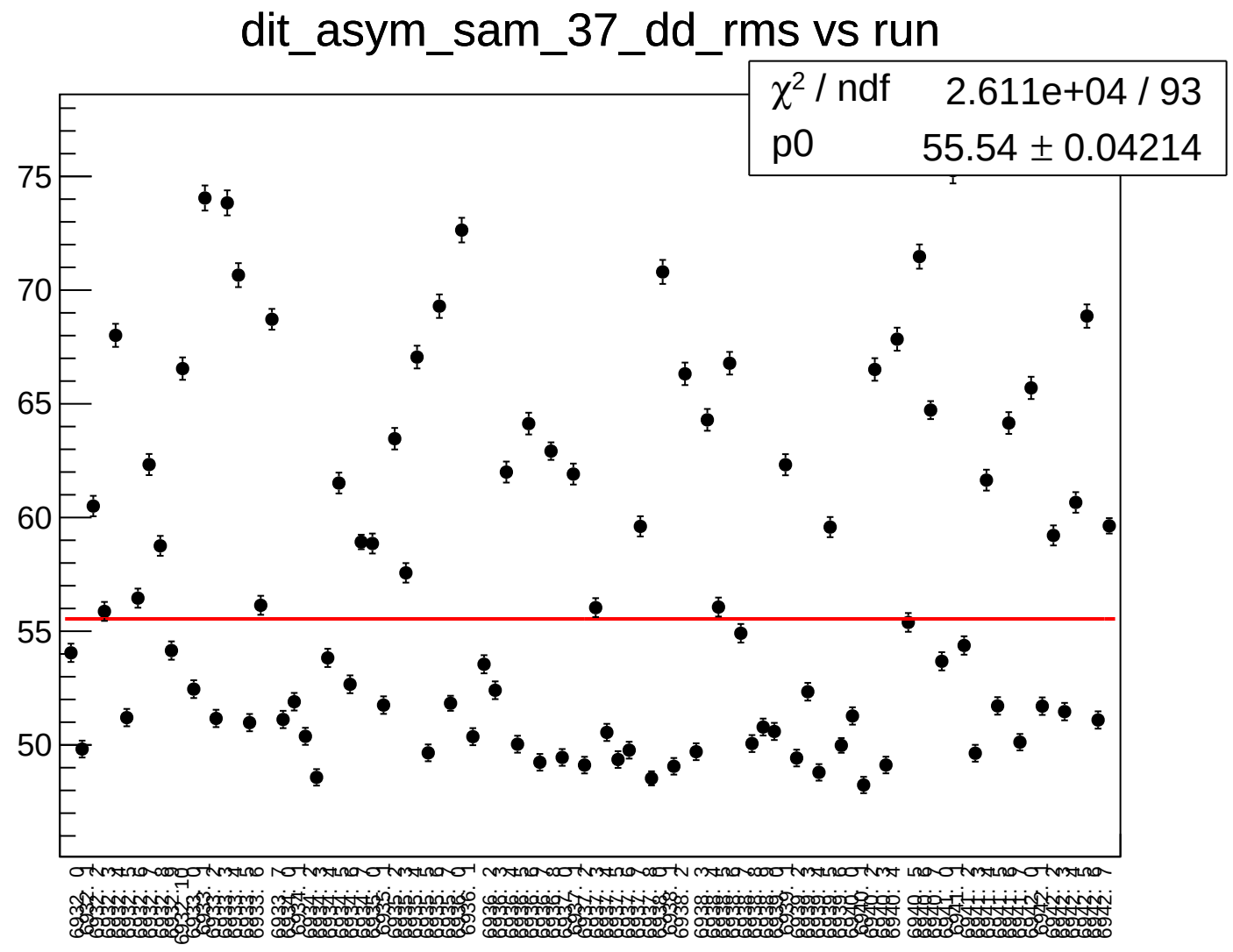

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.46 / 93
p0 66.51 ± 417
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 353.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

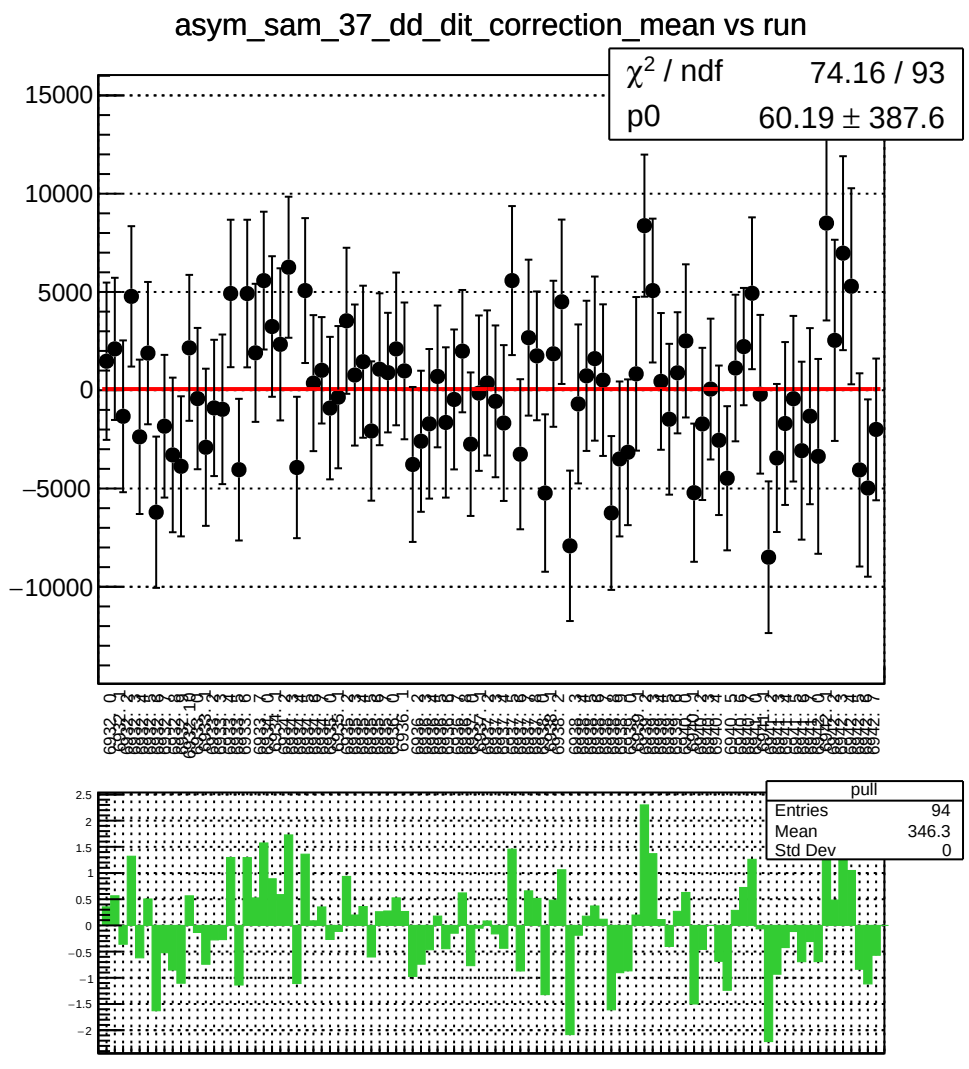

pull1D
Entries 94
Mean −0.007031
Std Dev 0.89
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

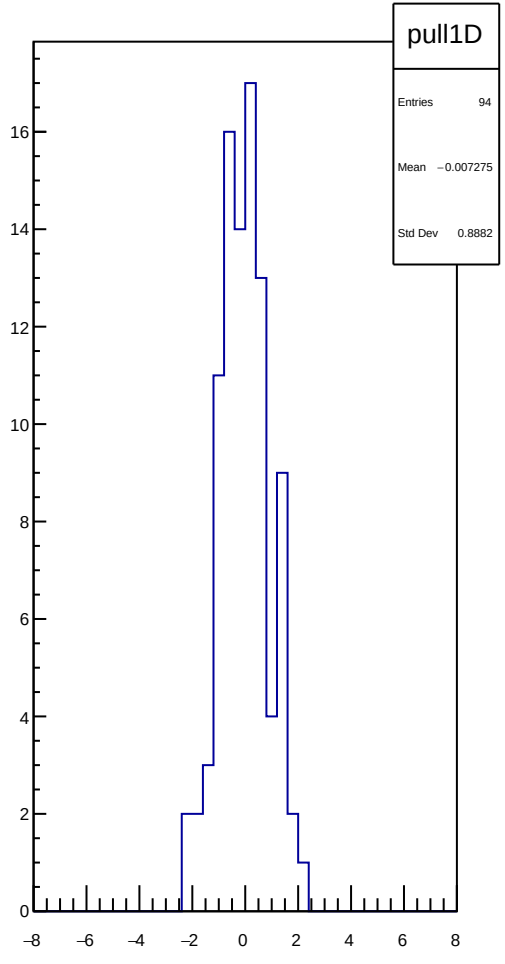

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.348e+04 / 93
p0 390.1 ± 0.2949
520
500
480
460
440
420
400
380
360
340

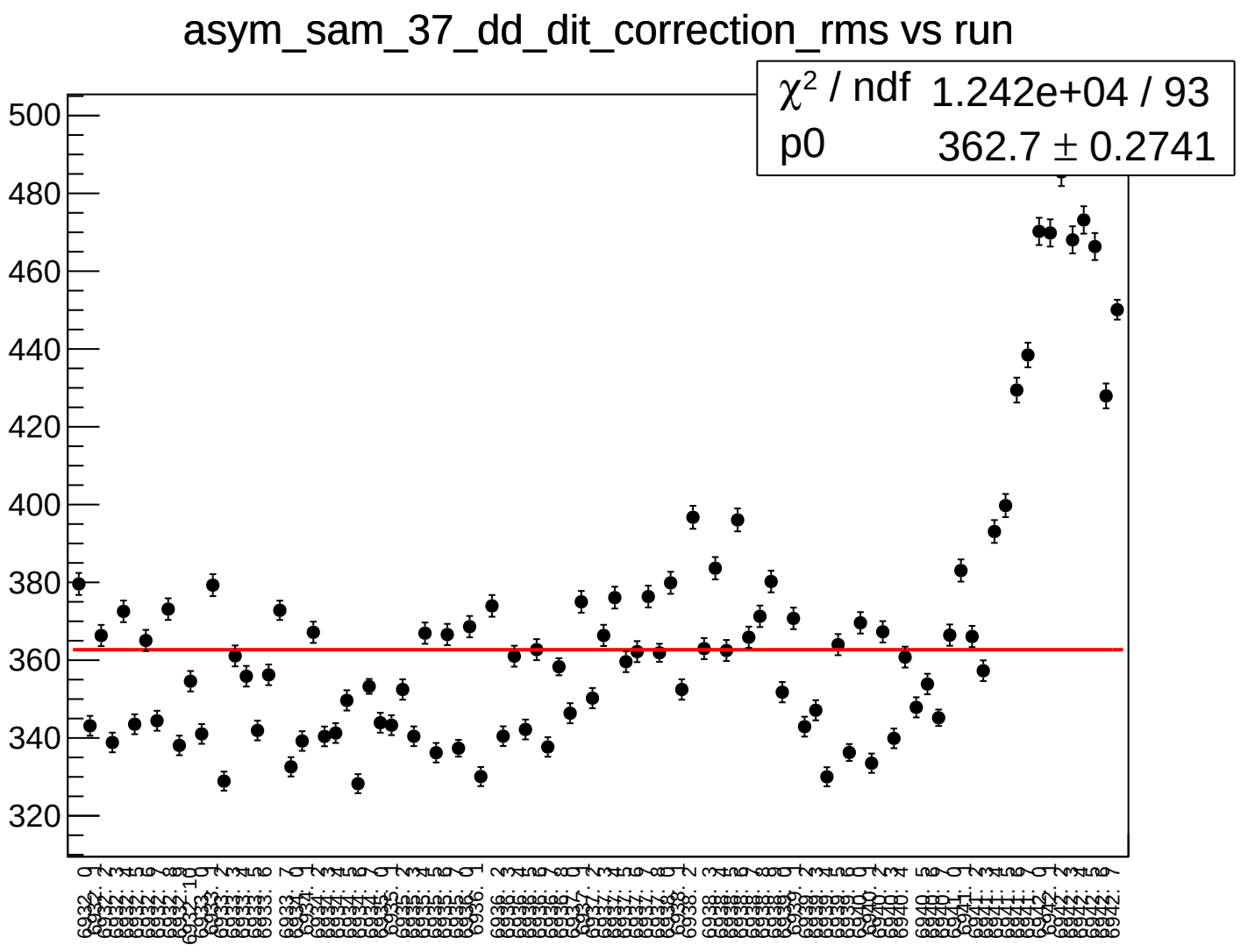

dit_asym_sam_37_dd_mean vs run
χ² / ndf 89.35 / 93
p0 −43.06 ± 59.59
pull
Entries 94
Mean −143.6
Std Dev 0

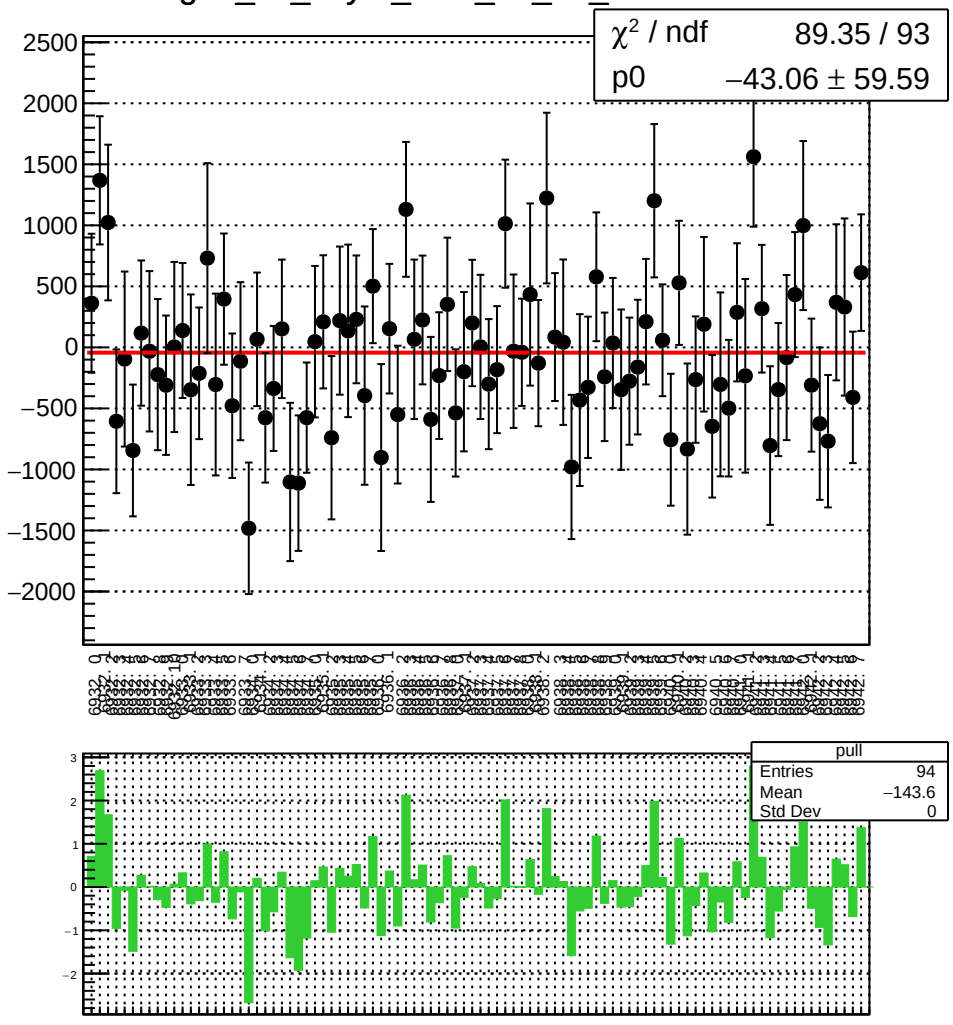

pull1D
Entries 94
Mean −0.007866
Std Dev 0.9749

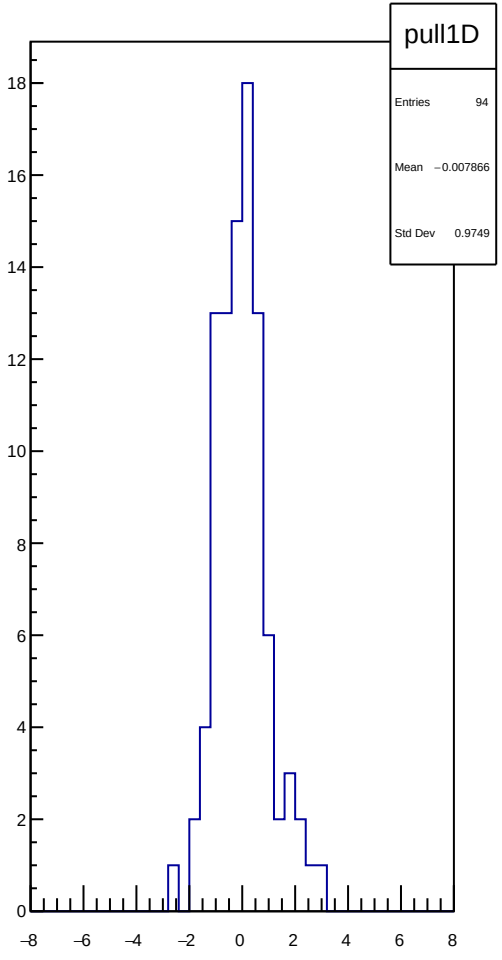

dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.611e+04 / 93
p0 55.54 ± 0.04214
75
70
65
60
55
50

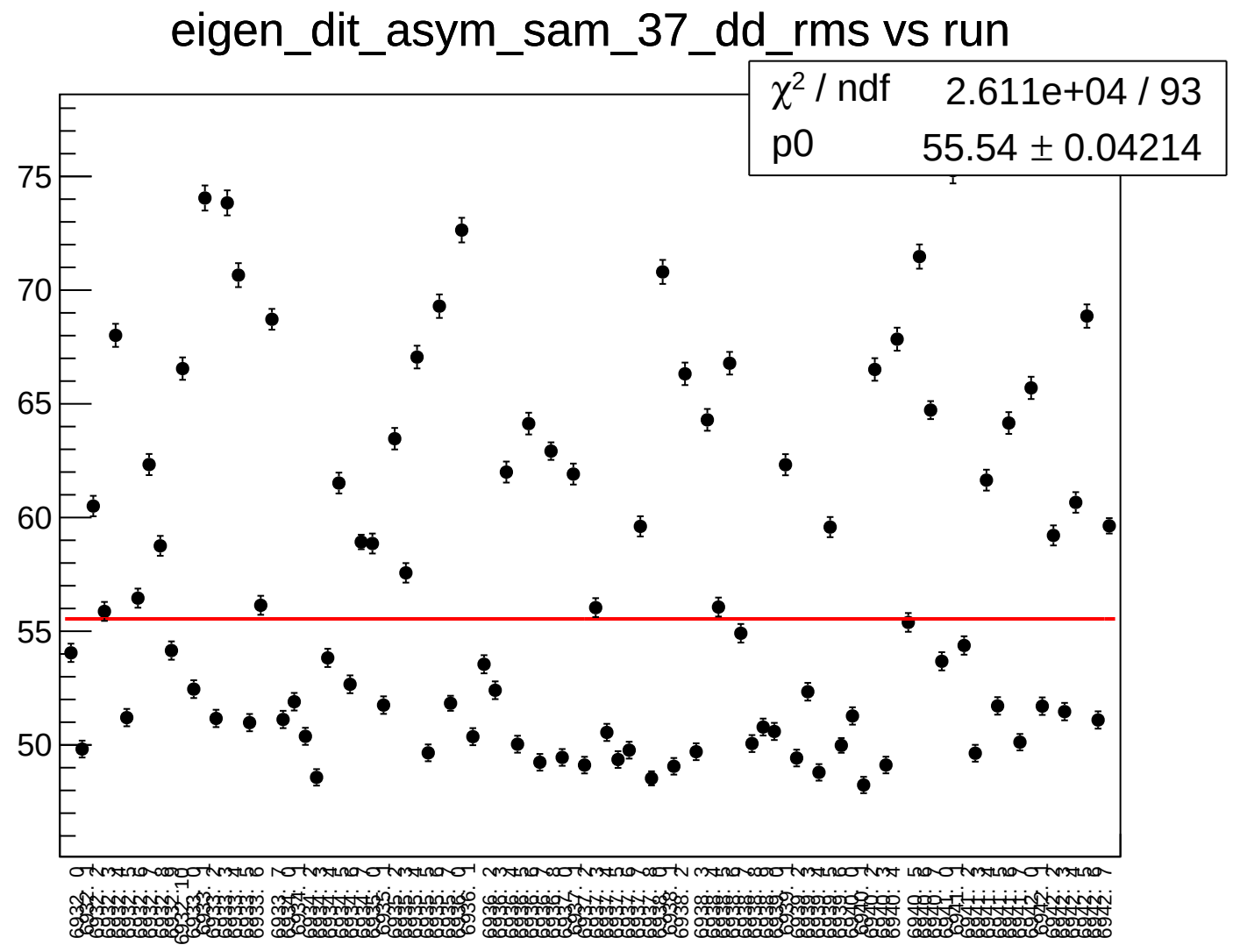

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 74.16 / 93
p0 60.19 ± 387.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 346.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

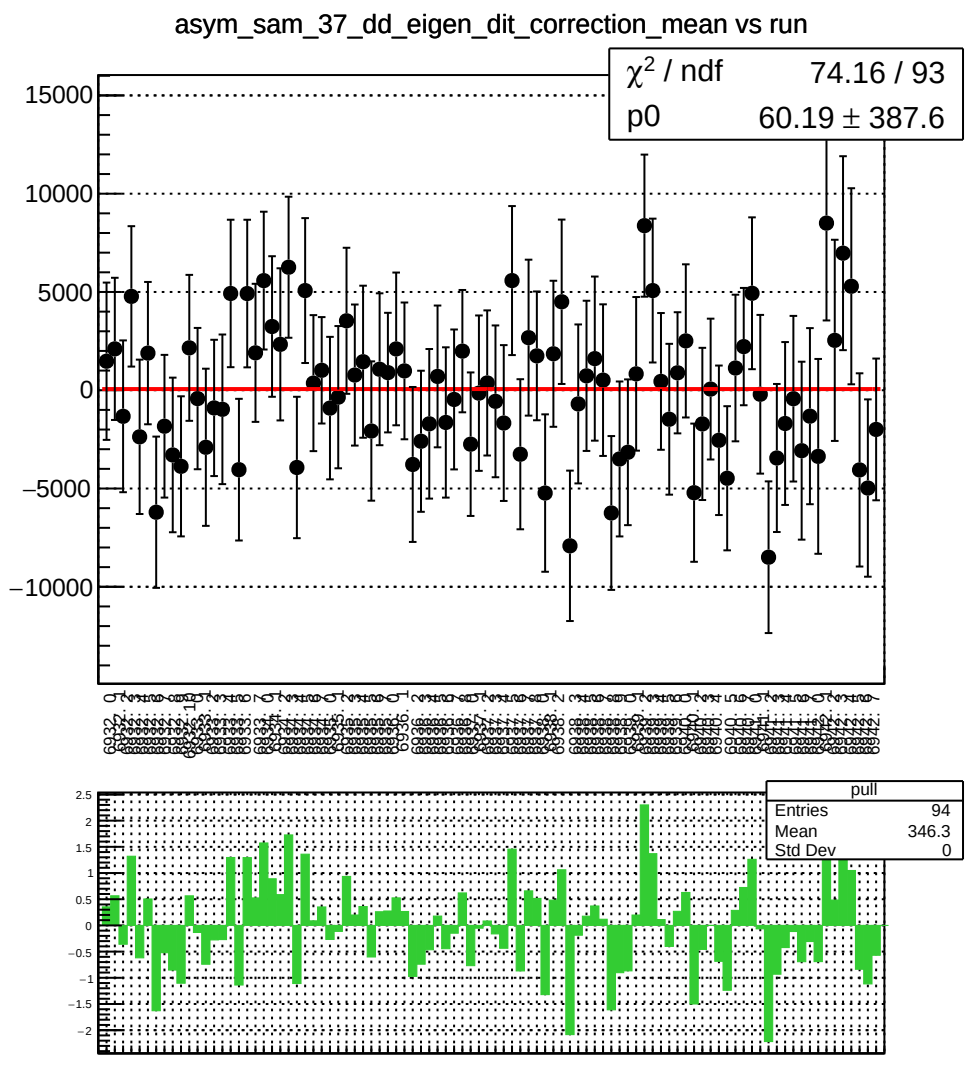

pull1D
Entries 94
Mean −0.007275
Std Dev 0.8882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

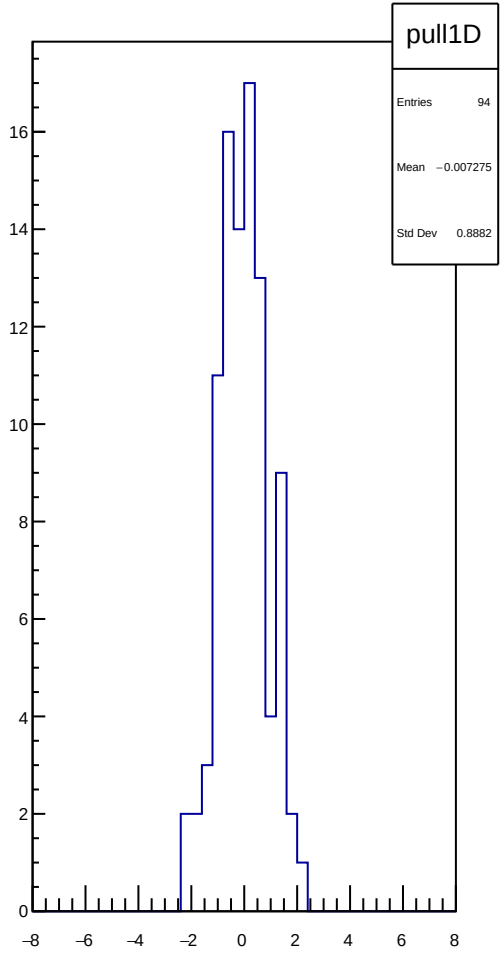

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 1.242e+04 / 93
p0 362.7 ± 0.2741
500
480
460
440
420
400
380
360
340
320

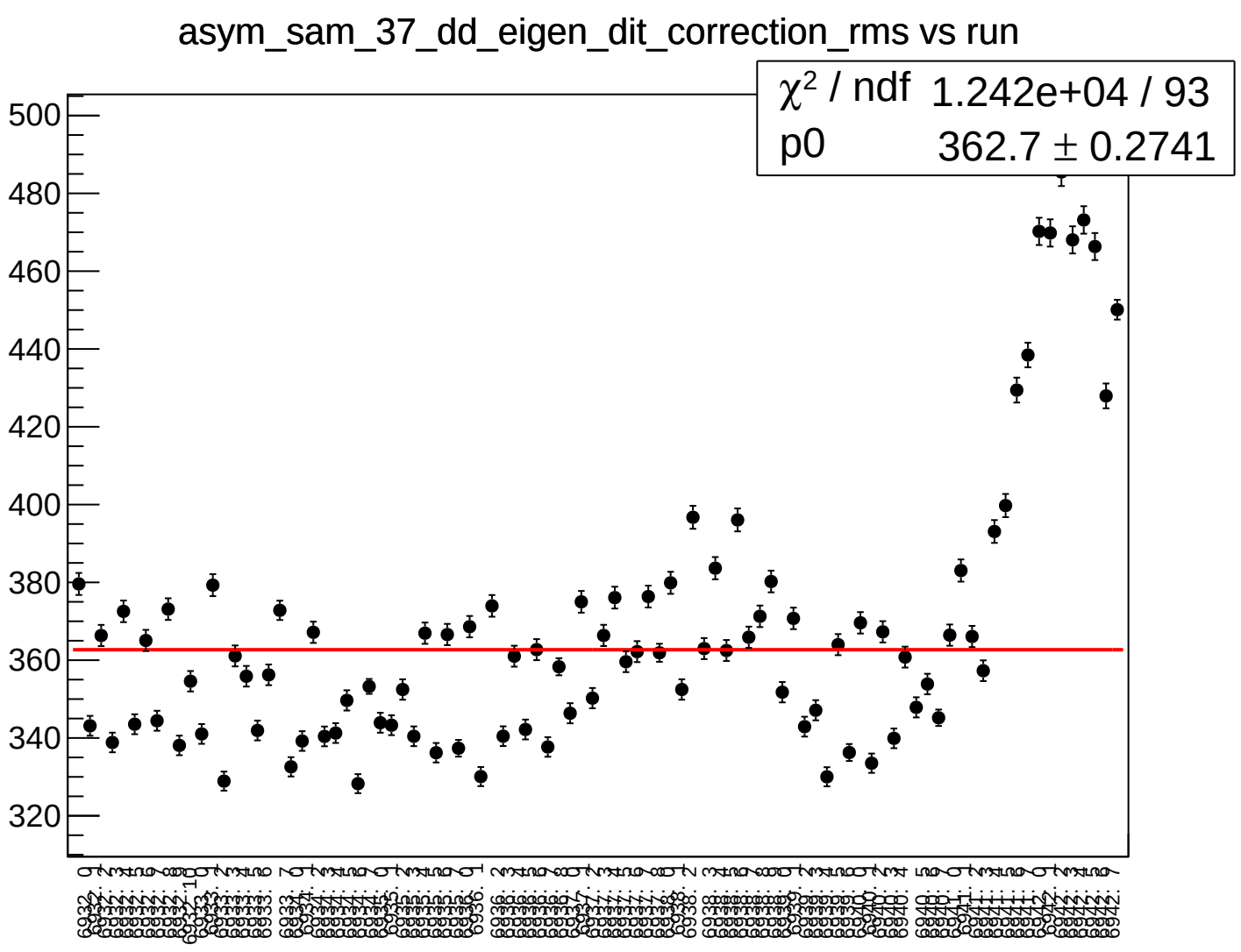

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 89.35 / 93
p0 −43.06 ± 59.59
pull
Entries 94
Mean −143.6
Std Dev 0

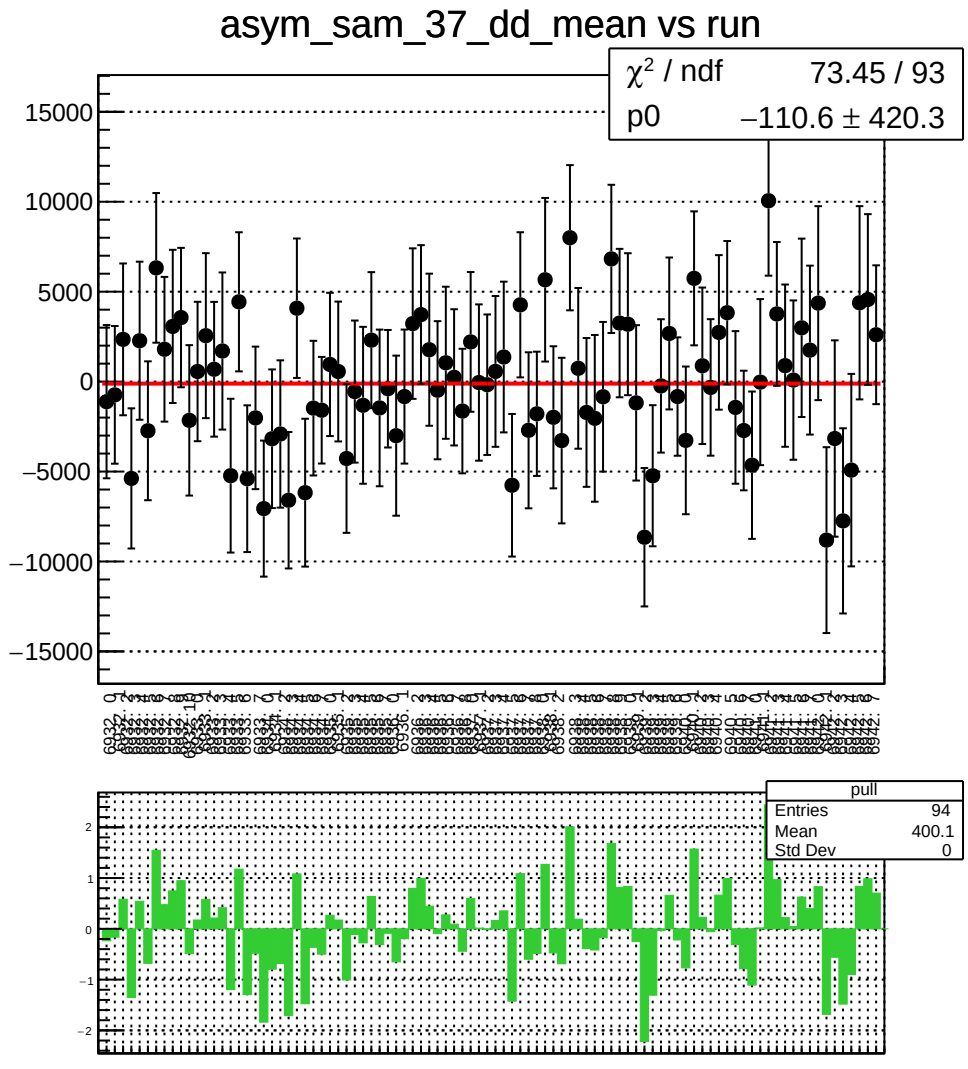

pull1D
Entries 94
Mean −0.007866
Std Dev 0.9749

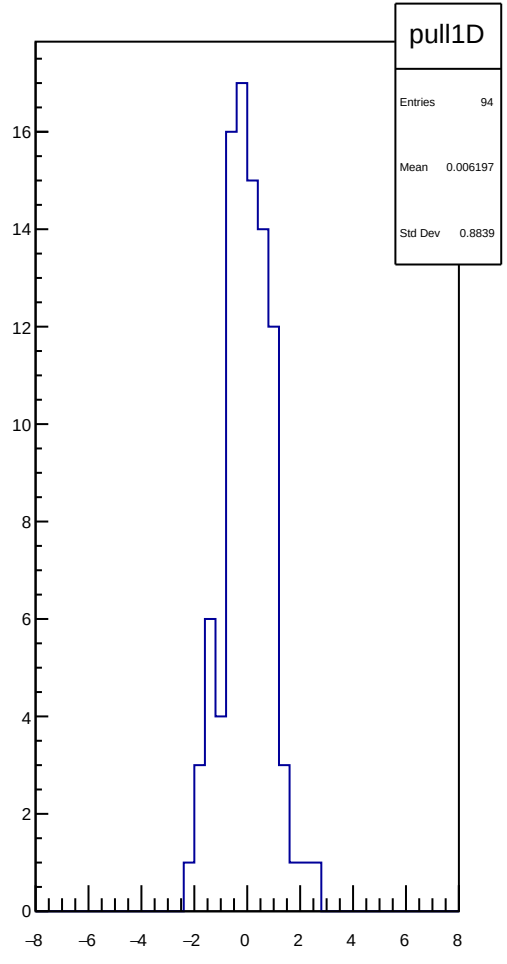

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.611e+04 / 93
p0 55.54 ± 0.04214
75
70
65
60
55
50

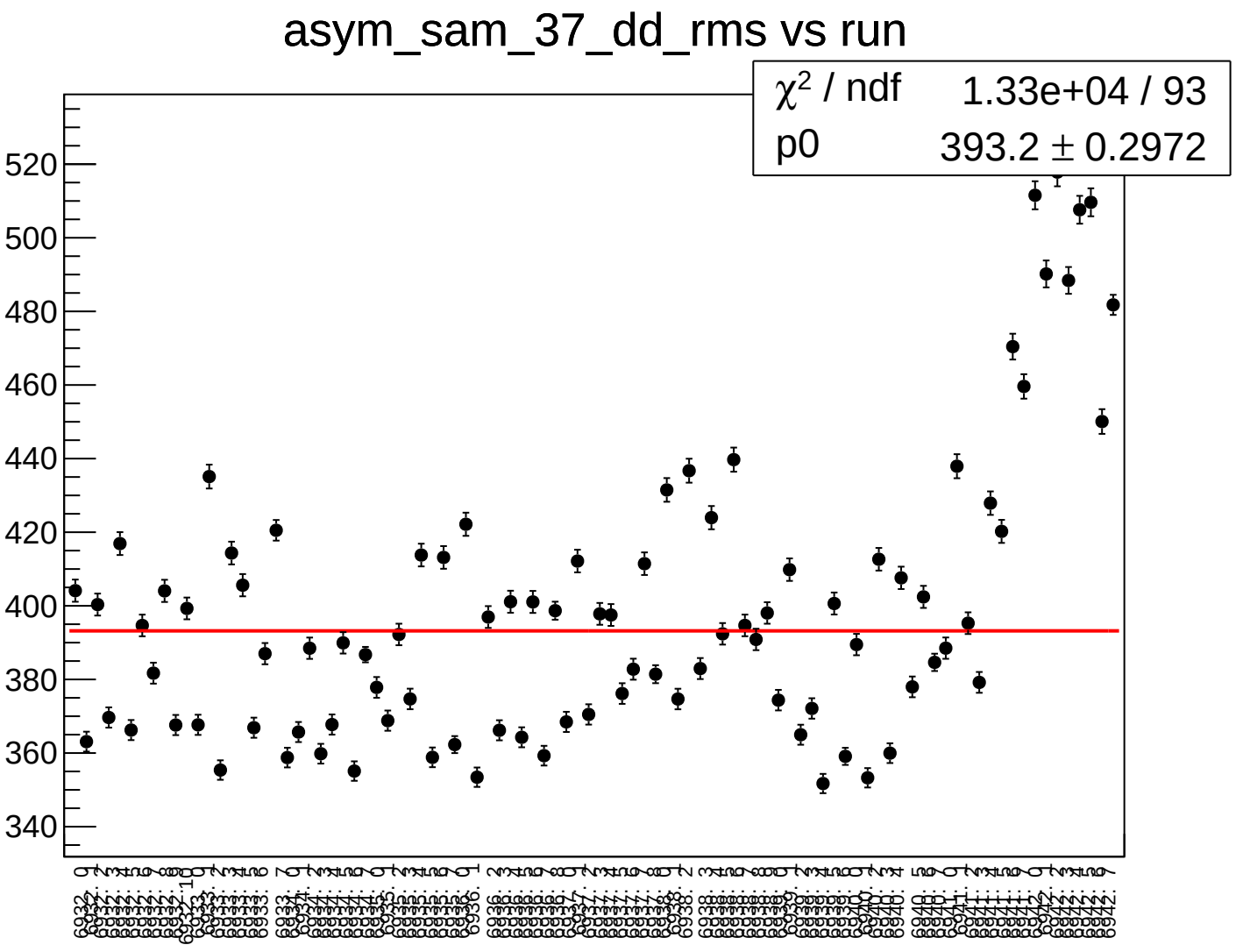

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.16 / 93
p0 60.19 ± 387.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 346.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

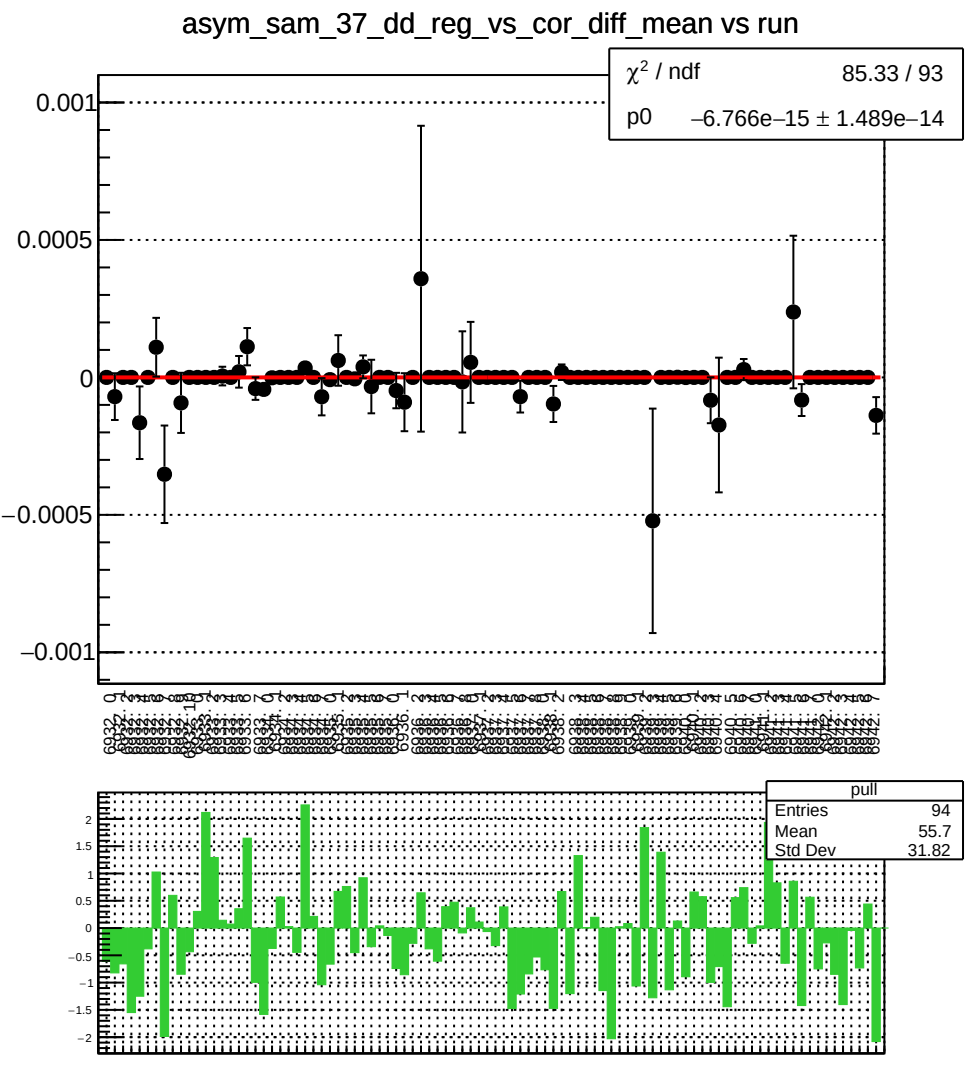

pull1D
Entries 94
Mean −0.007275
Std Dev 0.8882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

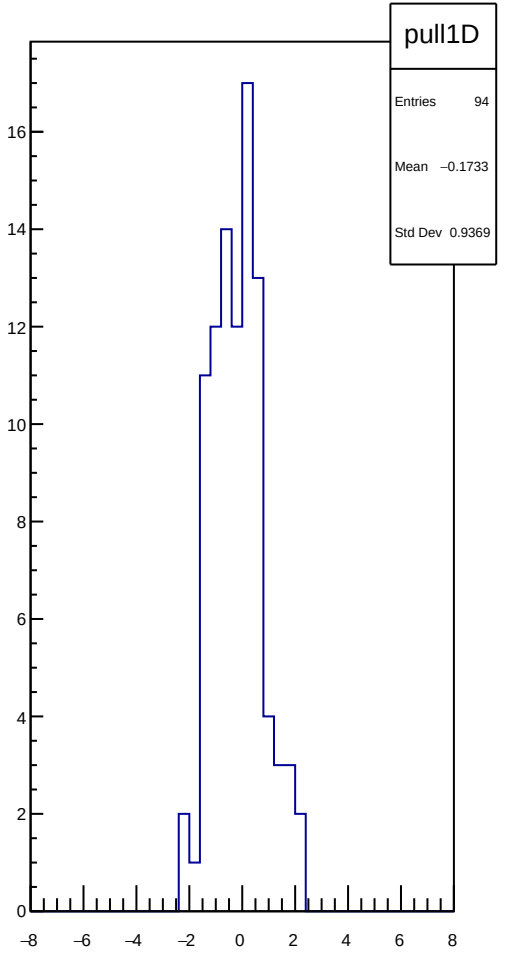

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.242e+04 / 93
p0 362.7 ± 0.2741
500
480
460
440
420
400
380
360
340
320

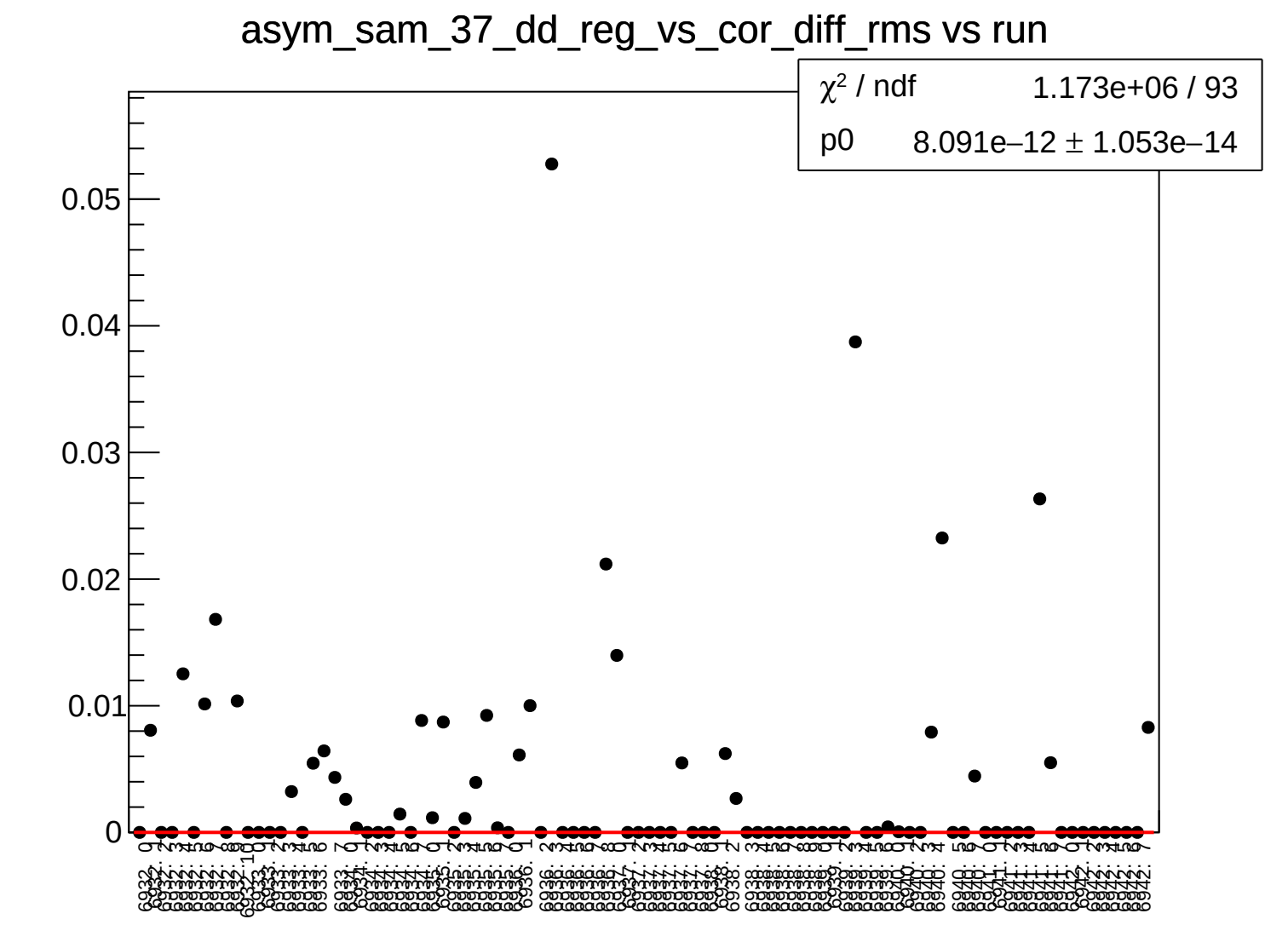

asym_sam_37_dd_mean vs run
χ² / ndf 73.45 / 93
p0 −110.6 ± 420.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 400.1
Std Dev 0
2
1
0
−1
−2

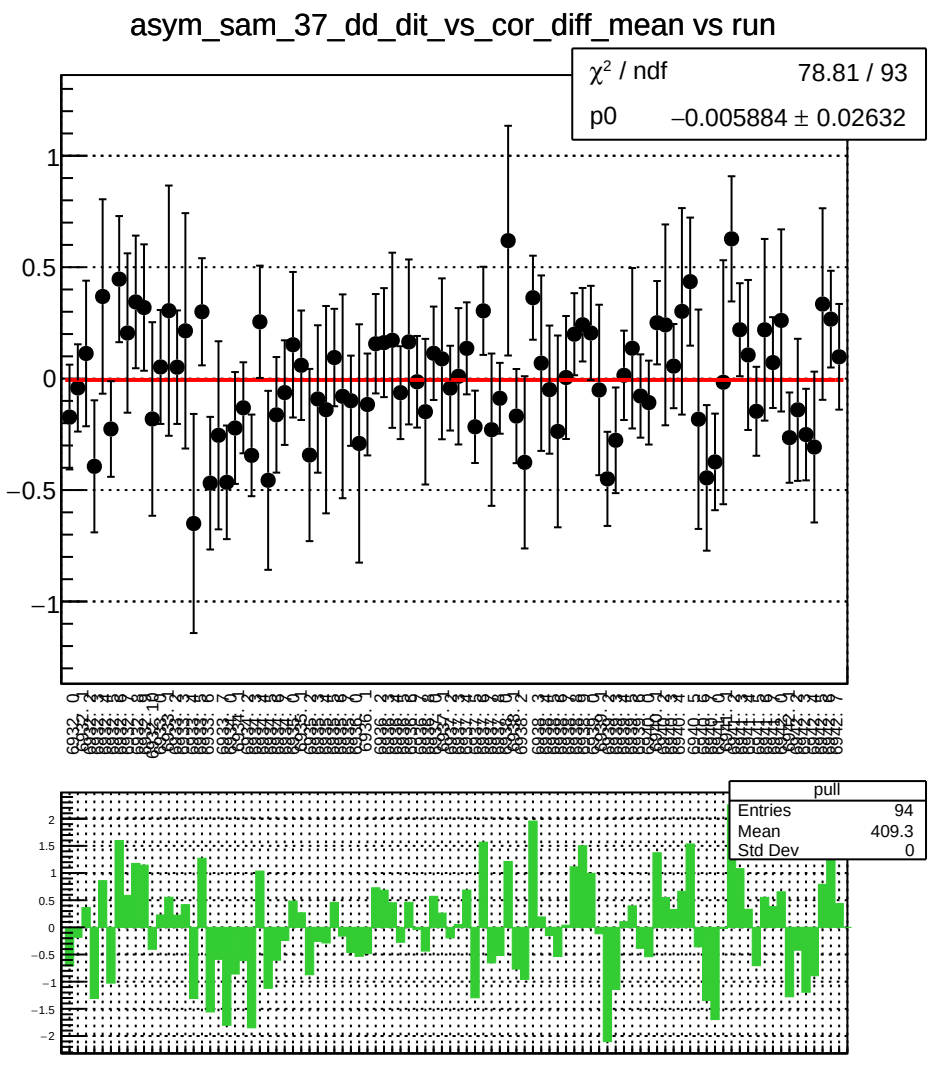

pull1D
Entries 94
Mean 0.006197
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

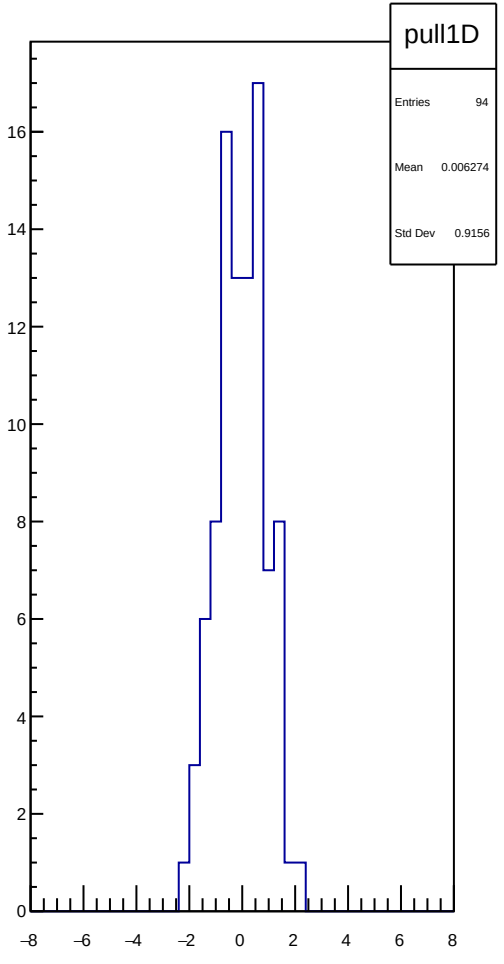

asym_sam_37_dd_rms vs run
χ² / ndf 1.33e+04 / 93
p0 393.2 ± 0.2972
520
500
480
460
440
420
400
380
360
340

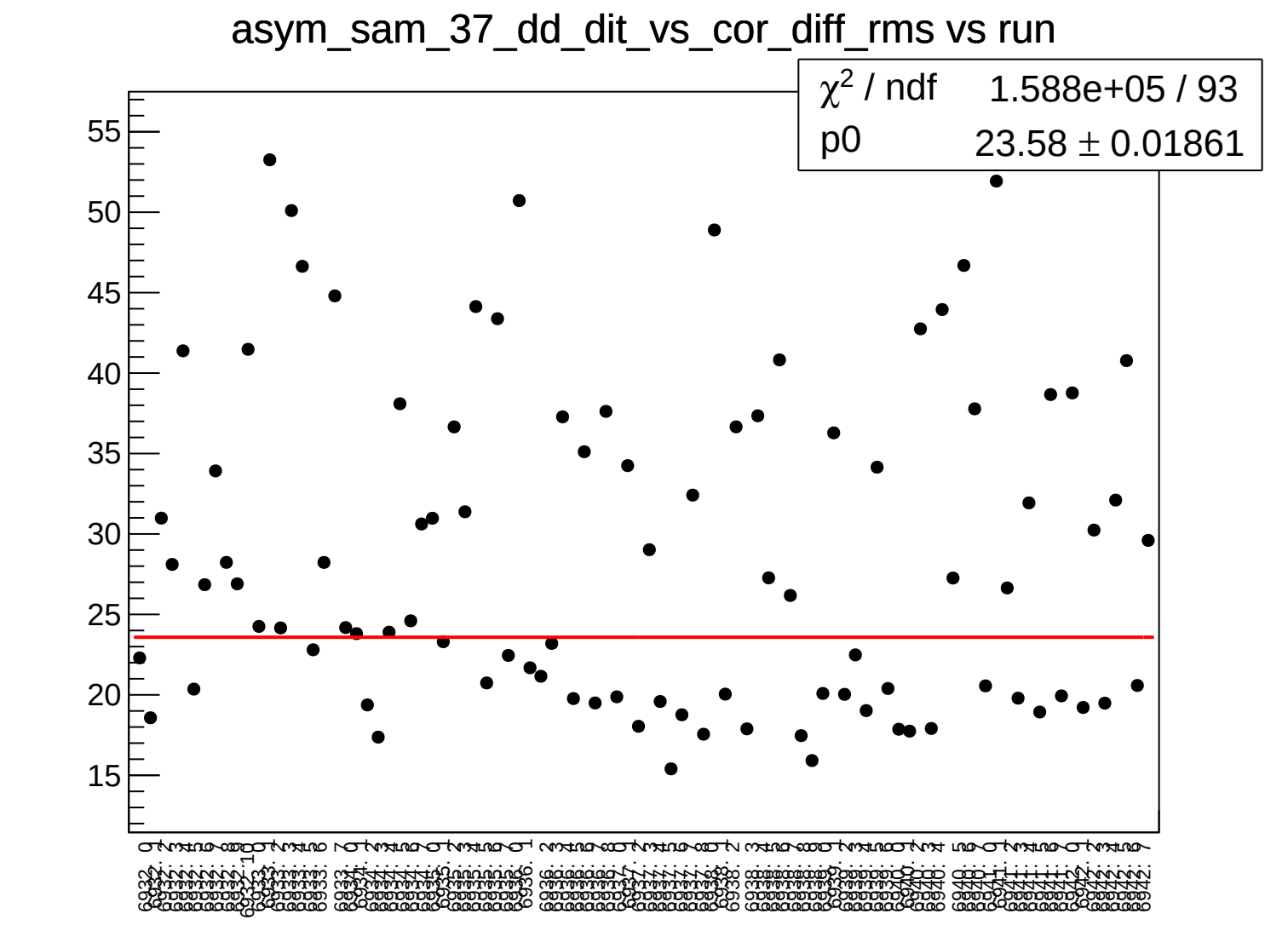

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.33 / 93
p0 −6.766e−15 ± 1.489e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 55.7
Std Dev 31.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

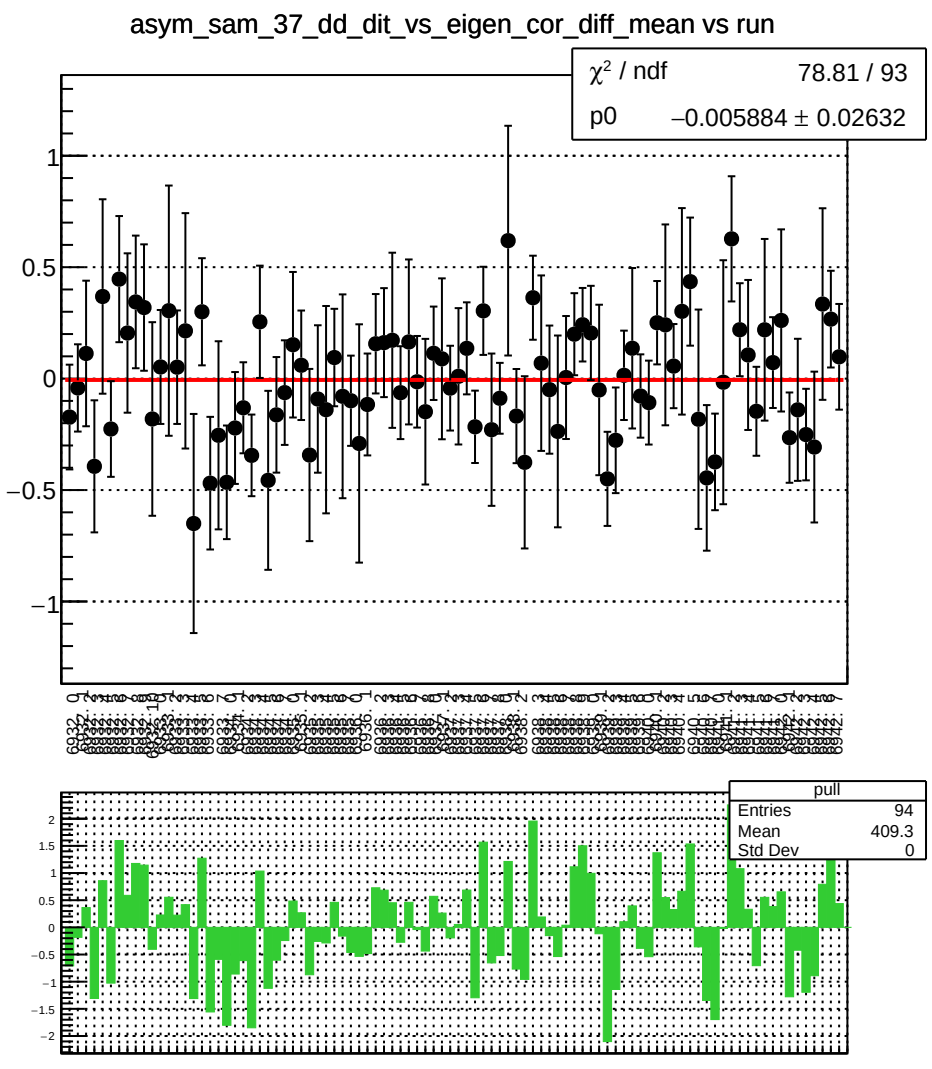

pull1D
Entries 94
Mean −0.1733
Std Dev 0.9369
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

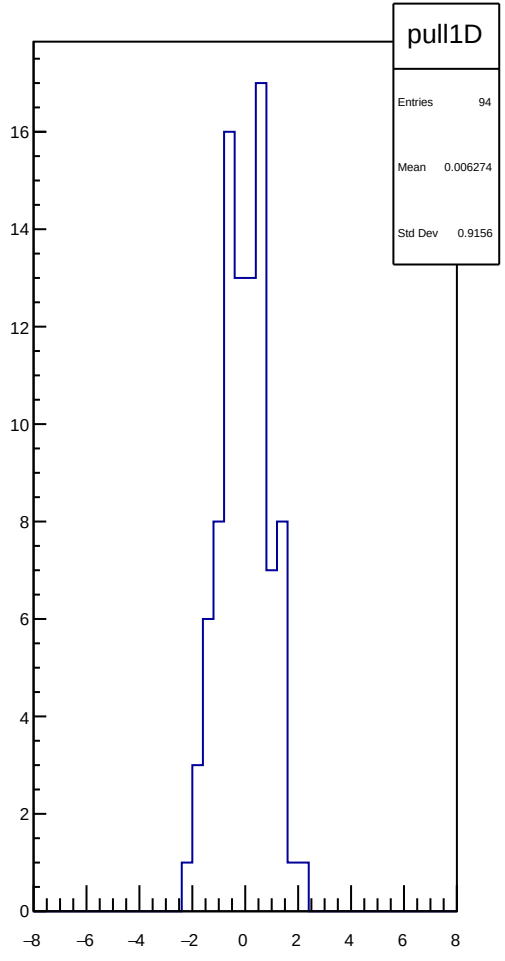

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 93
p0 8.091e−12 ± 1.053e−14
0.05
0.04
0.03
0.02
0.01
0

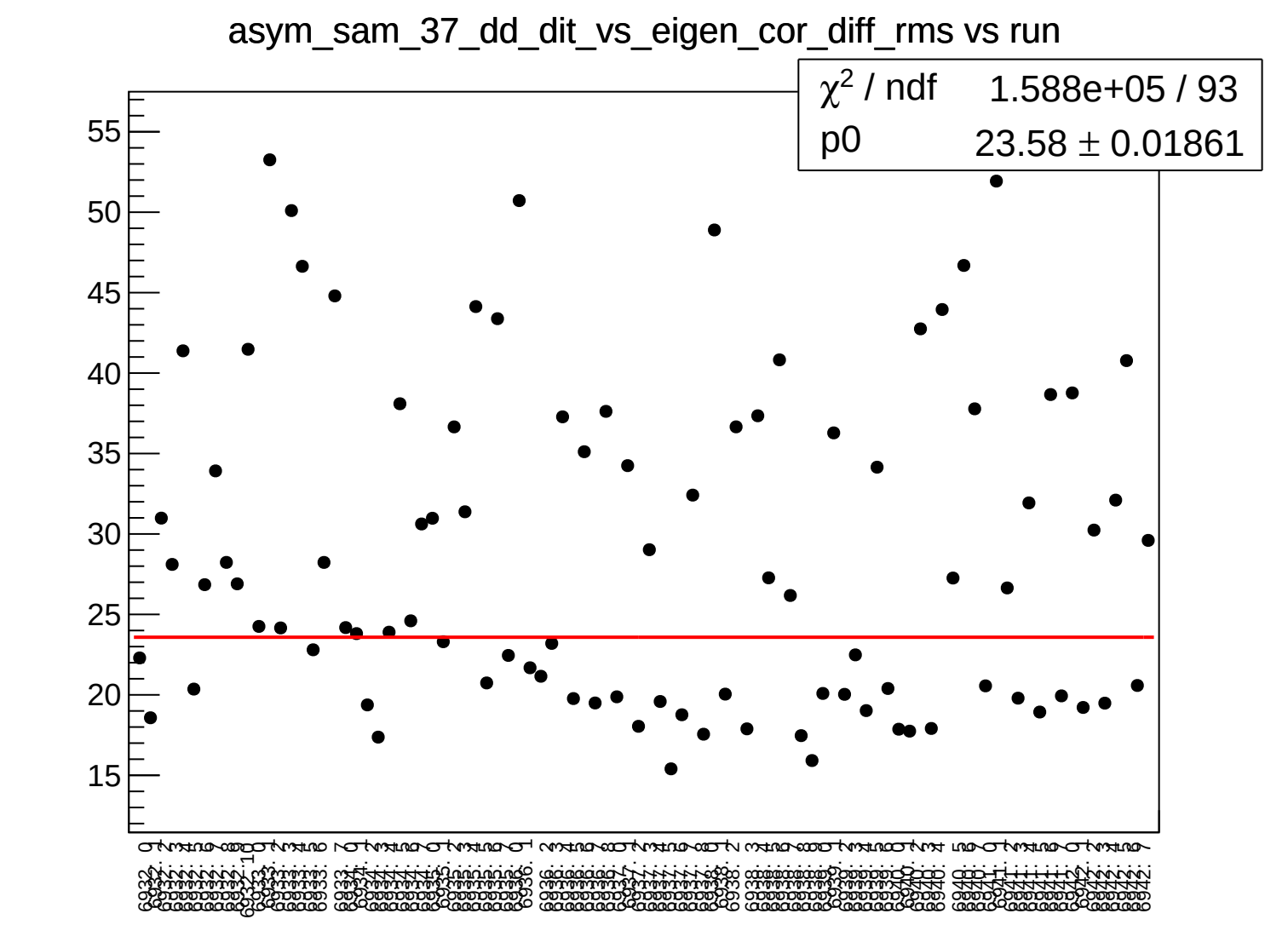

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 93
p0 −0.005884 ± 0.02632
pull
Entries 94
Mean 409.3
Std Dev 0

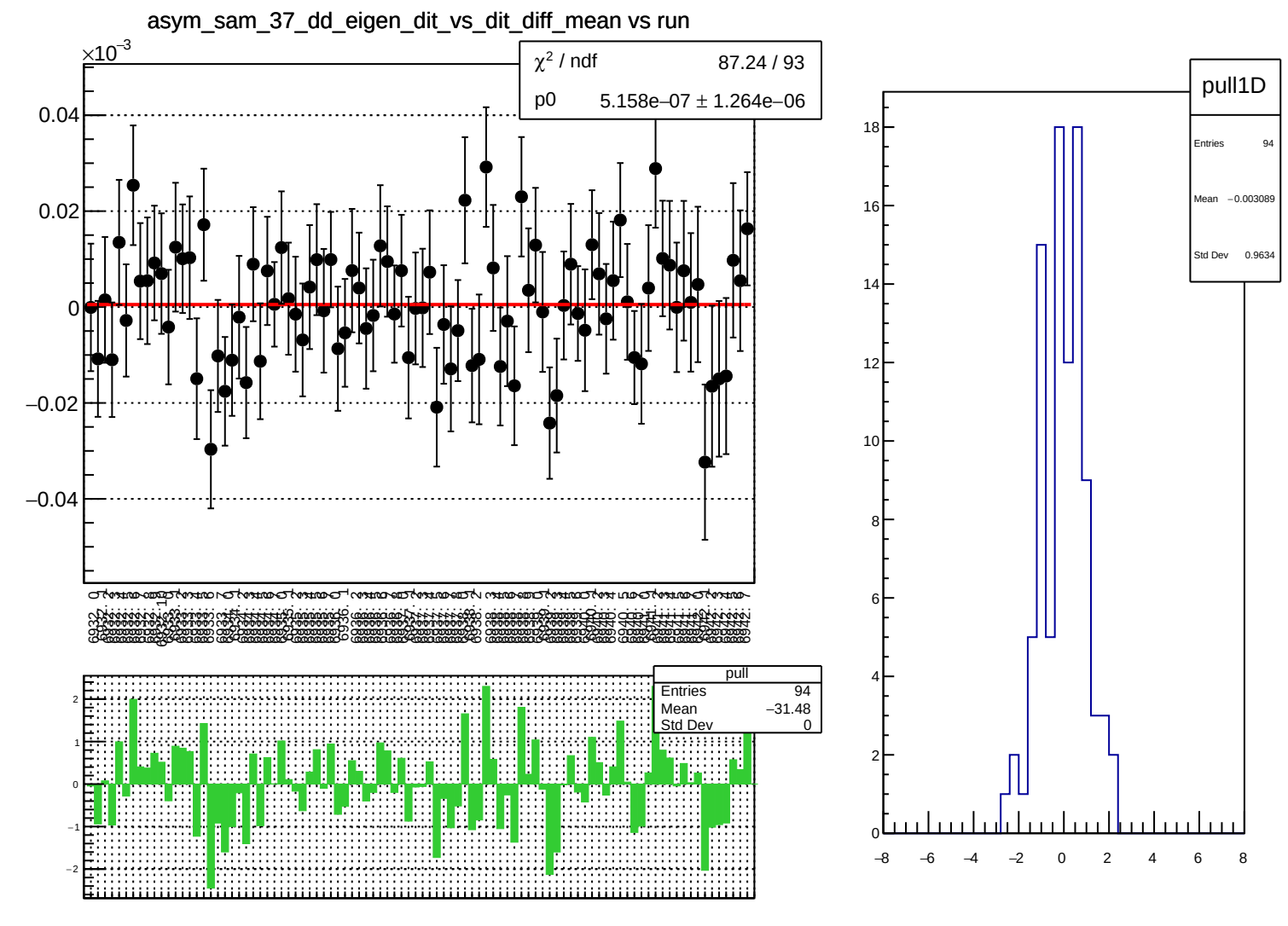

pull1D
Entries 94
Mean 0.006274
Std Dev 0.9156

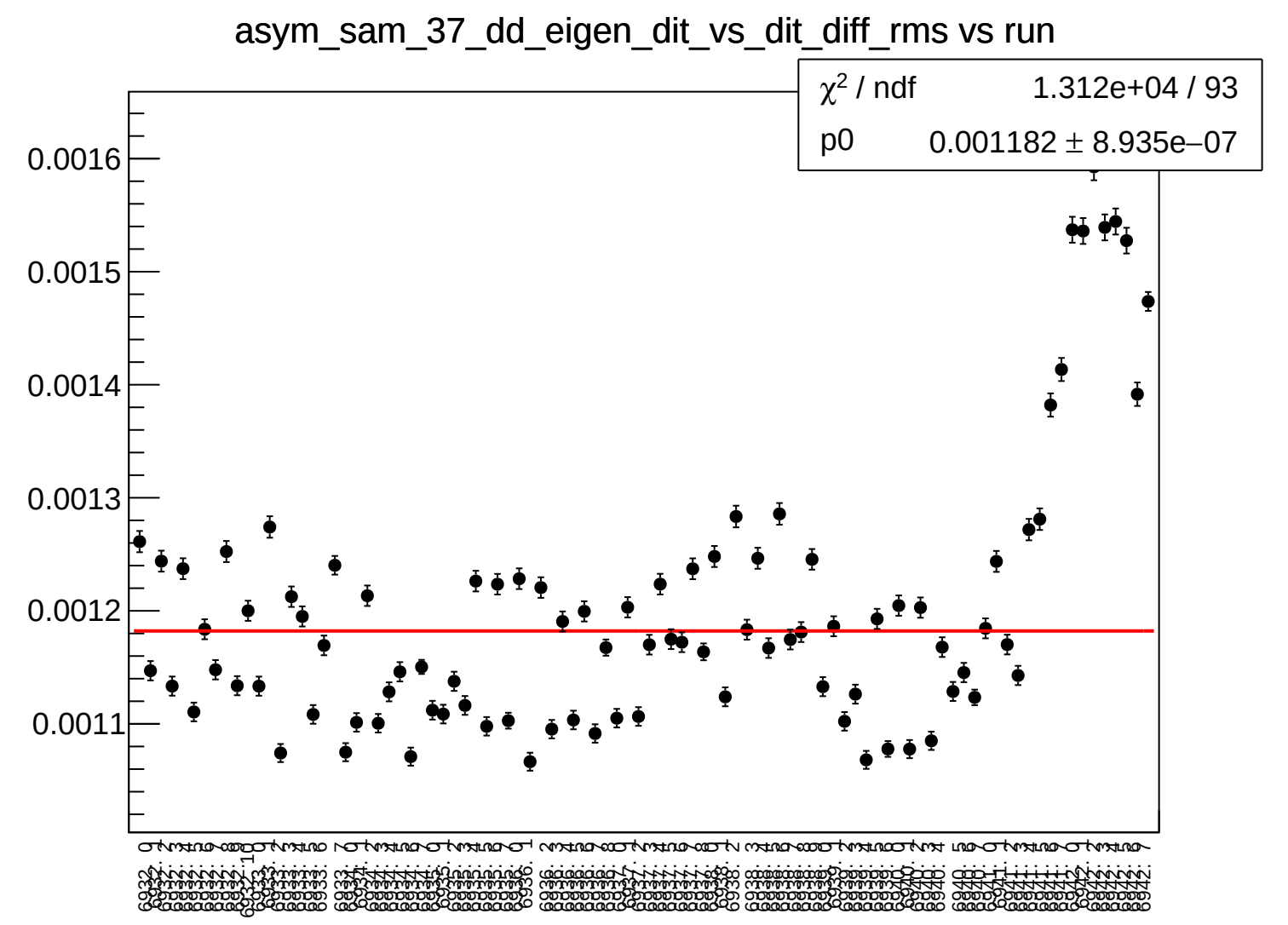

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 93
p0 23.58 ± 0.01861
55
50
45
40
35
30
25
20
15

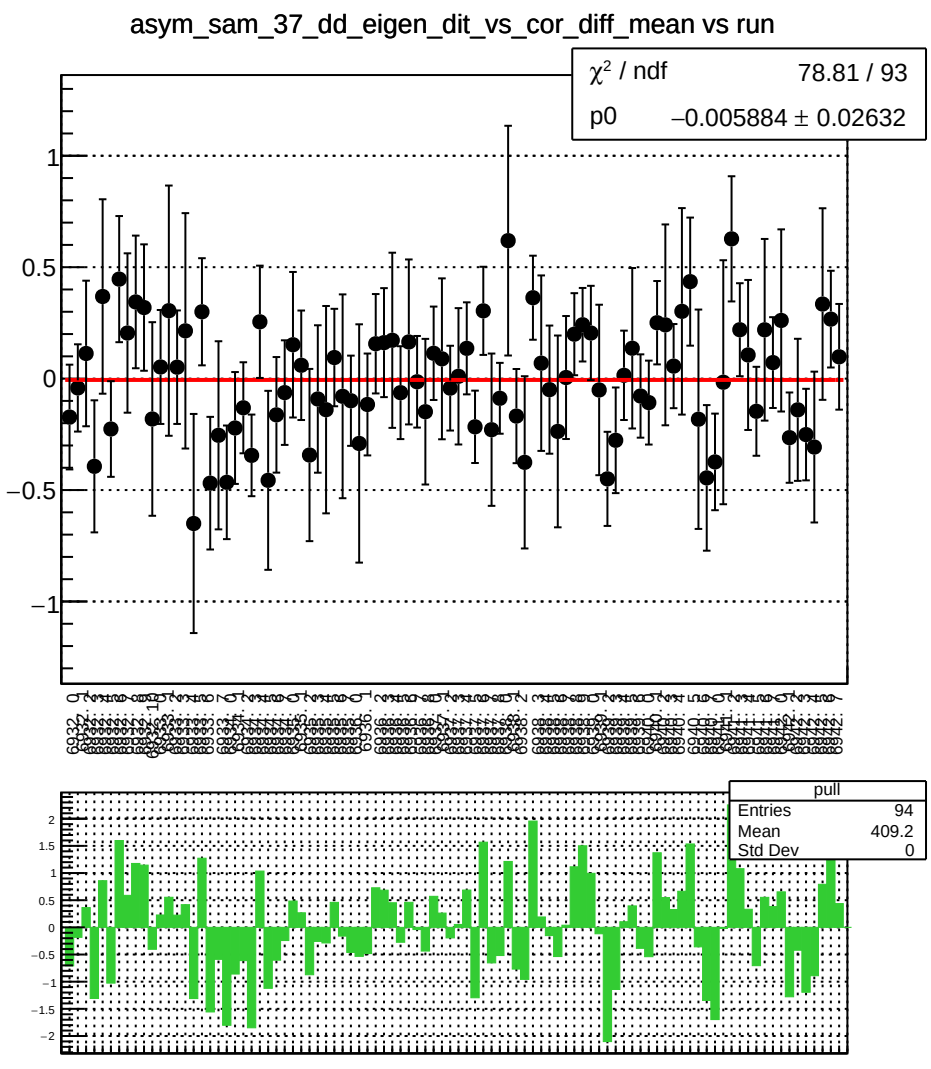

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.81 / 93
p0 −0.005884 ± 0.02632
pull
Entries 94
Mean 409.3
Std Dev 0

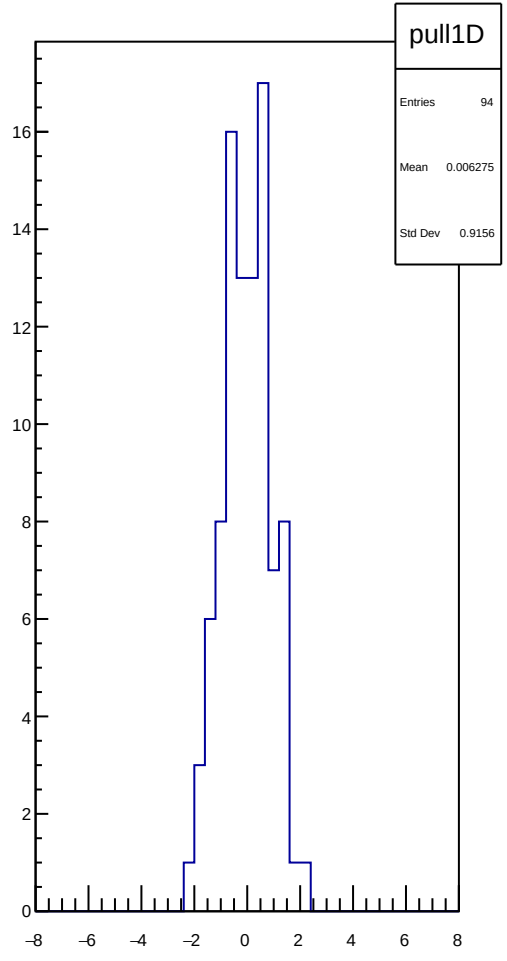

pull1D
Entries 94
Mean 0.006274
Std Dev 0.9156

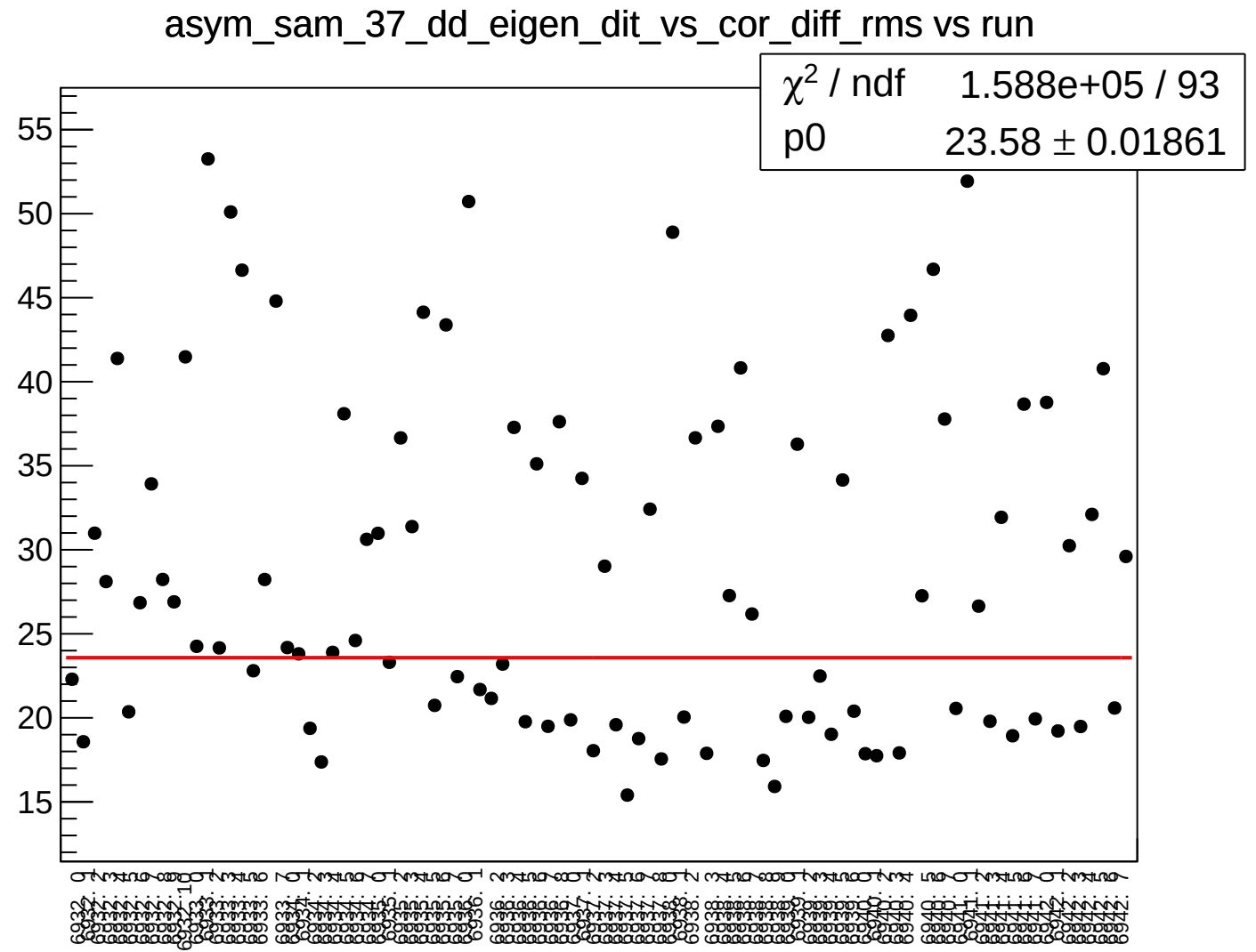

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 93
p0 23.58 ± 0.01861
55
50
45
40
35
30
25
20
15

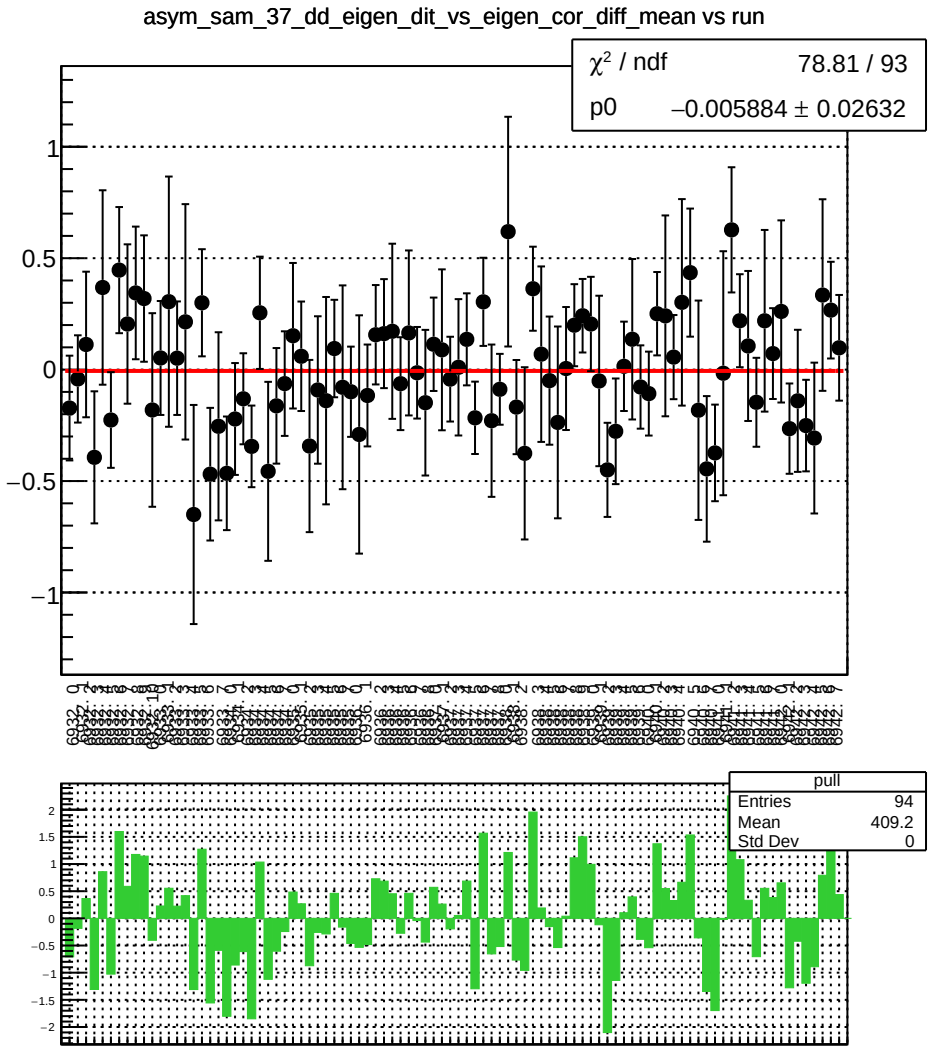

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.24 / 93
p0 5.158e−07 ± 1.264e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −31.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003089
Std Dev 0.9634
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

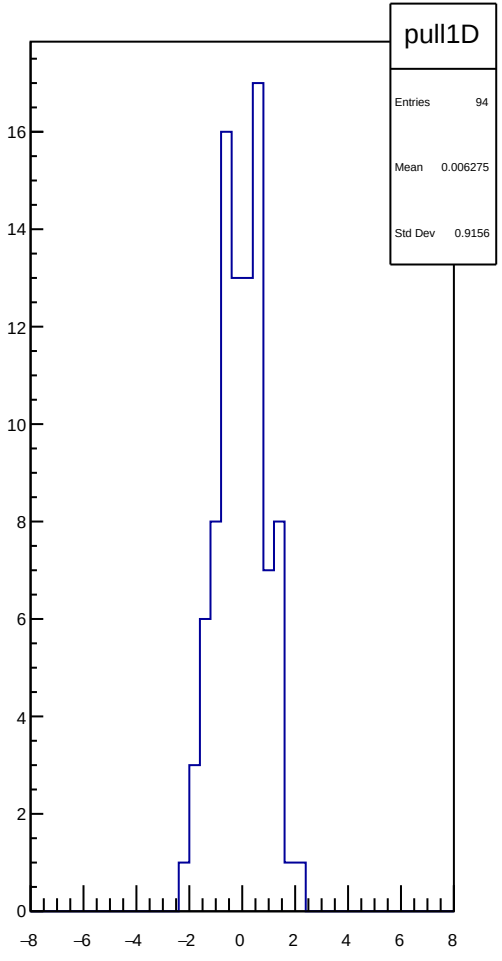

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.312e+04 / 93
p0 0.001182 ± 8.935e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

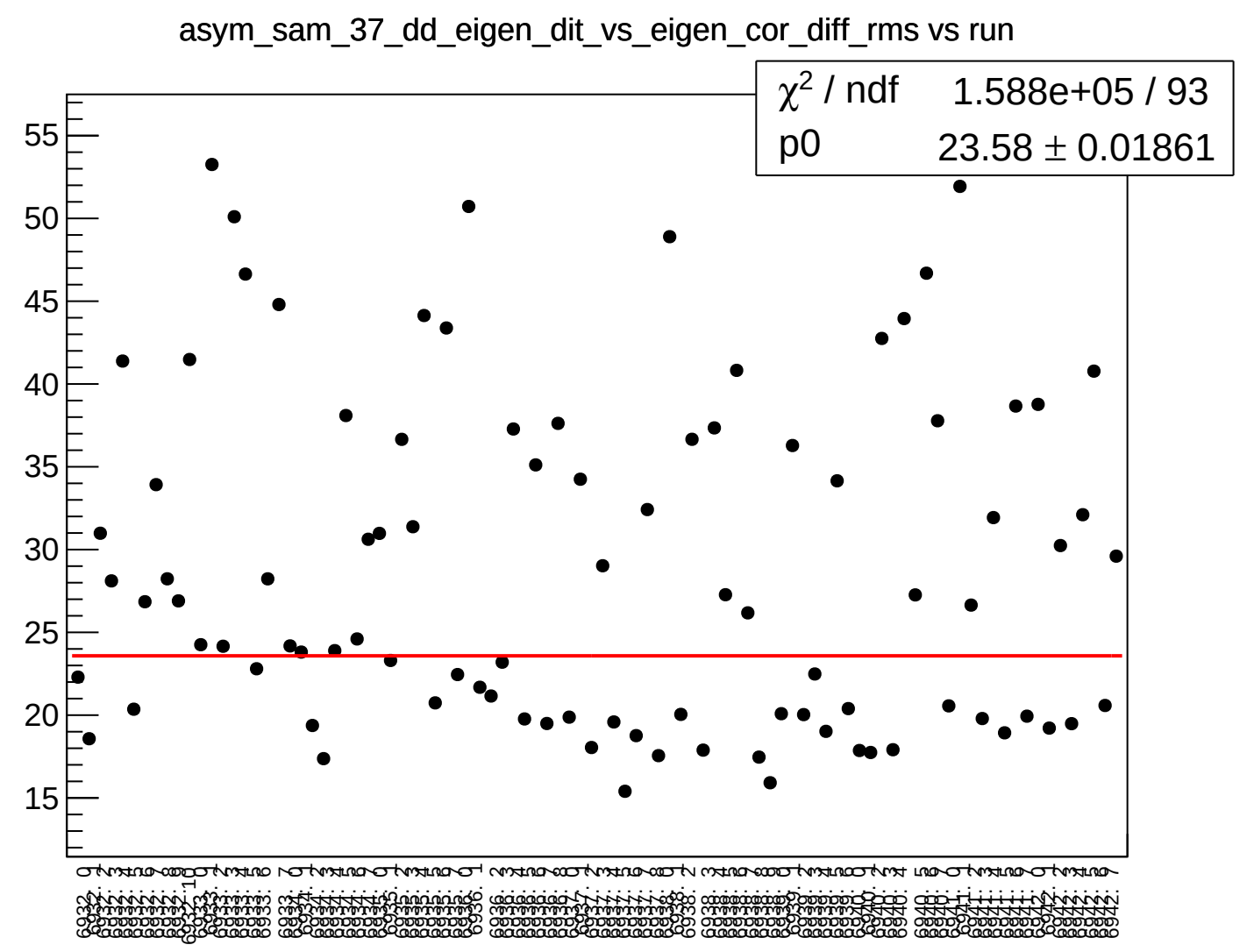

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.81 / 93
p0 −0.005884 ± 0.02632
pull
Entries 94
Mean 409.2
Std Dev 0

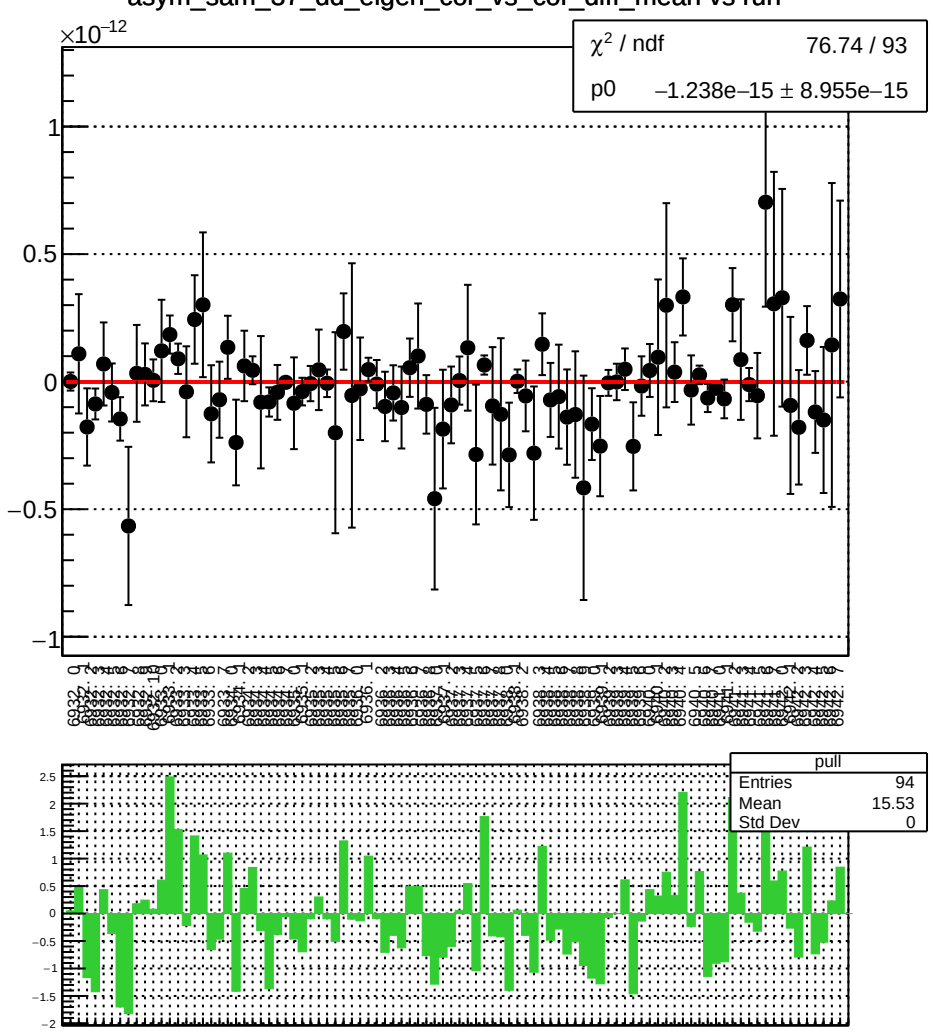

pull1D
Entries 94
Mean 0.006275
Std Dev 0.9156

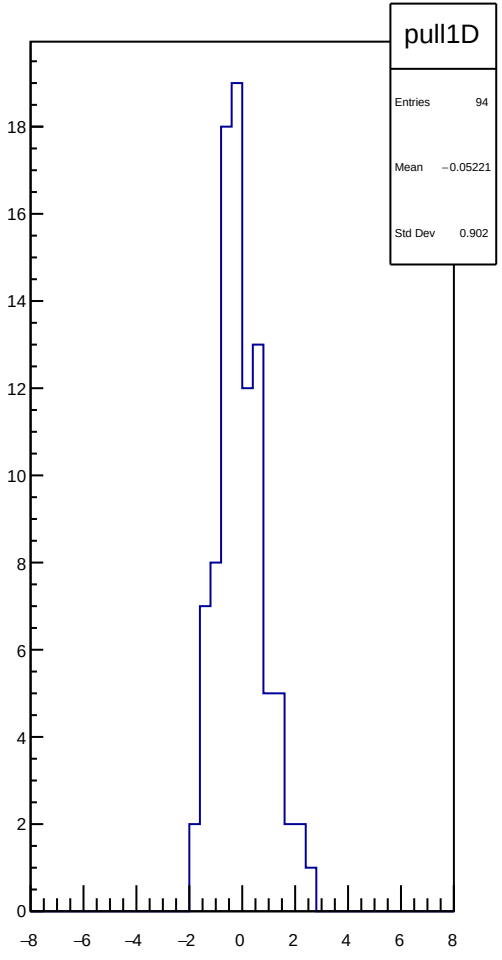

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 93
p0 23.58 ± 0.01861
55
50
45
40
35
30
25
20
15

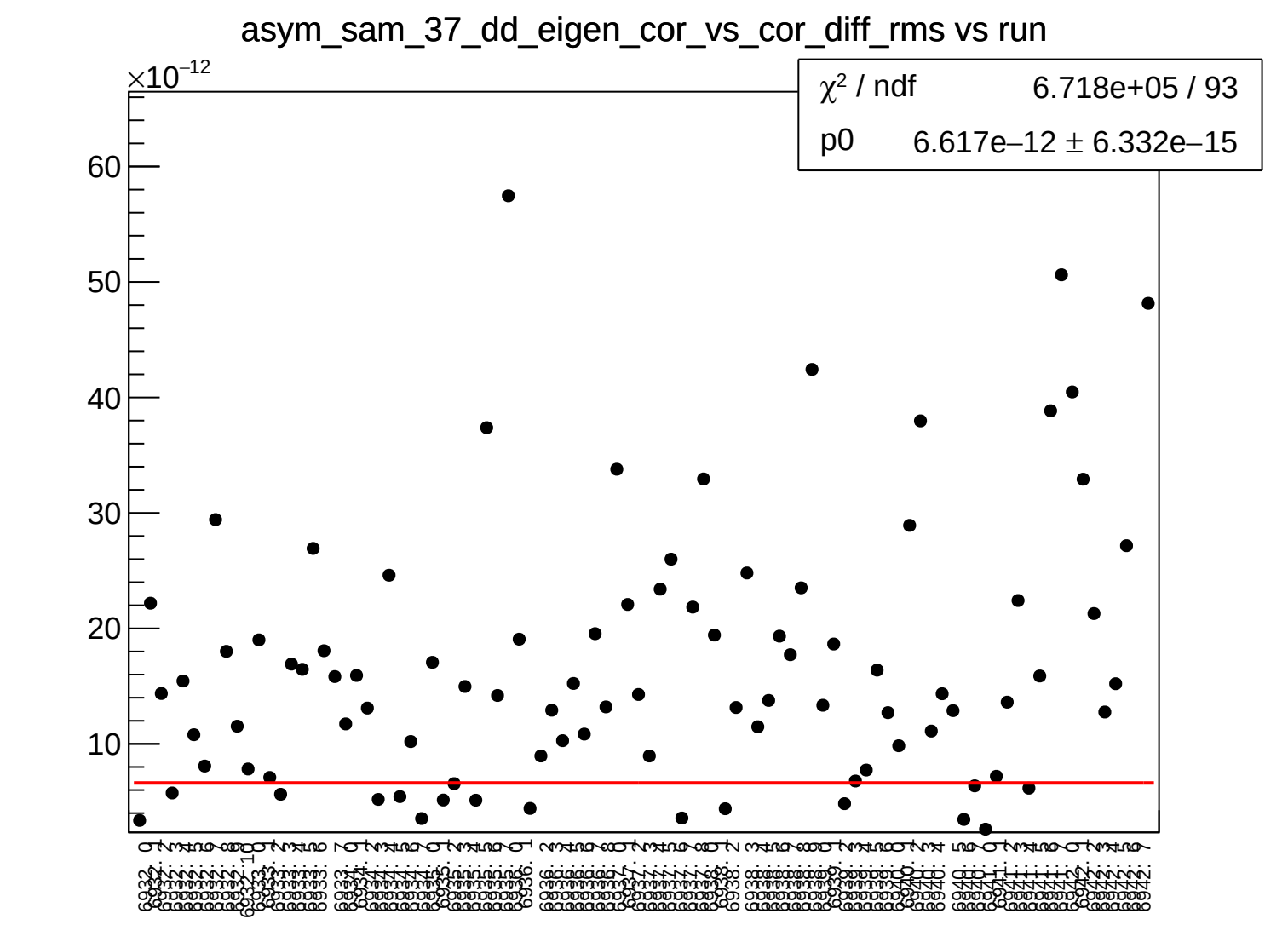

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.81 / 93
p0 −0.005884 ± 0.02632
pull
Entries 94
Mean 409.2
Std Dev 0

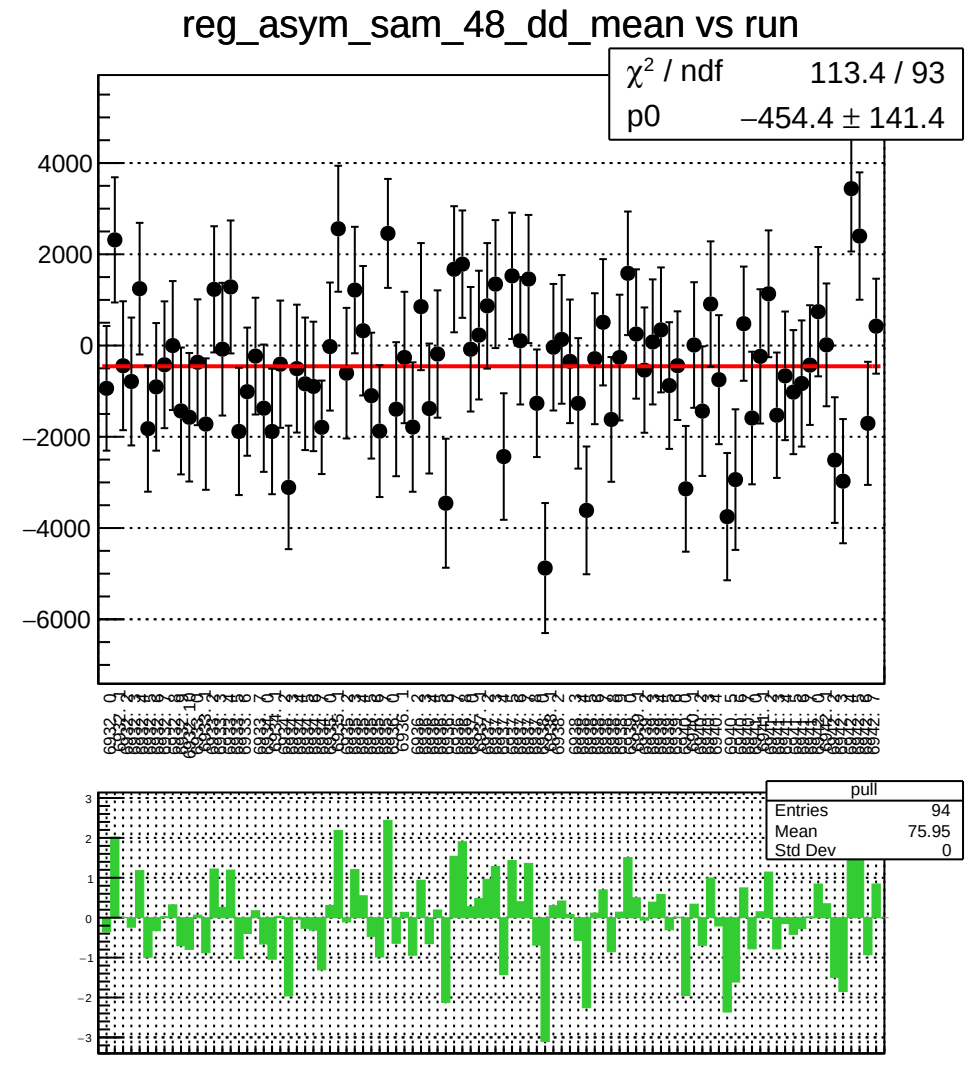

pull1D
Entries 94
Mean 0.006275
Std Dev 0.9156

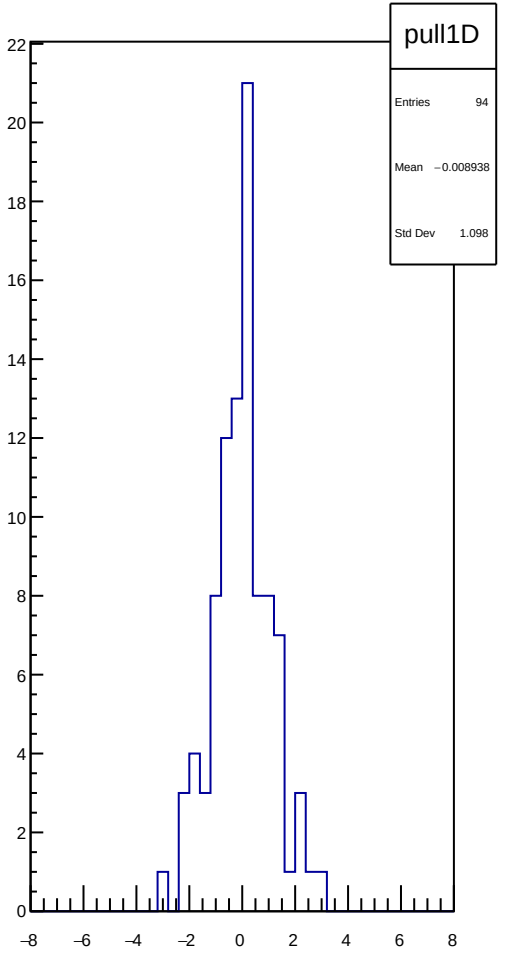

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.588e+05 / 93
p0 23.58 ± 0.01861
55
50
45
40
35
30
25
20
15

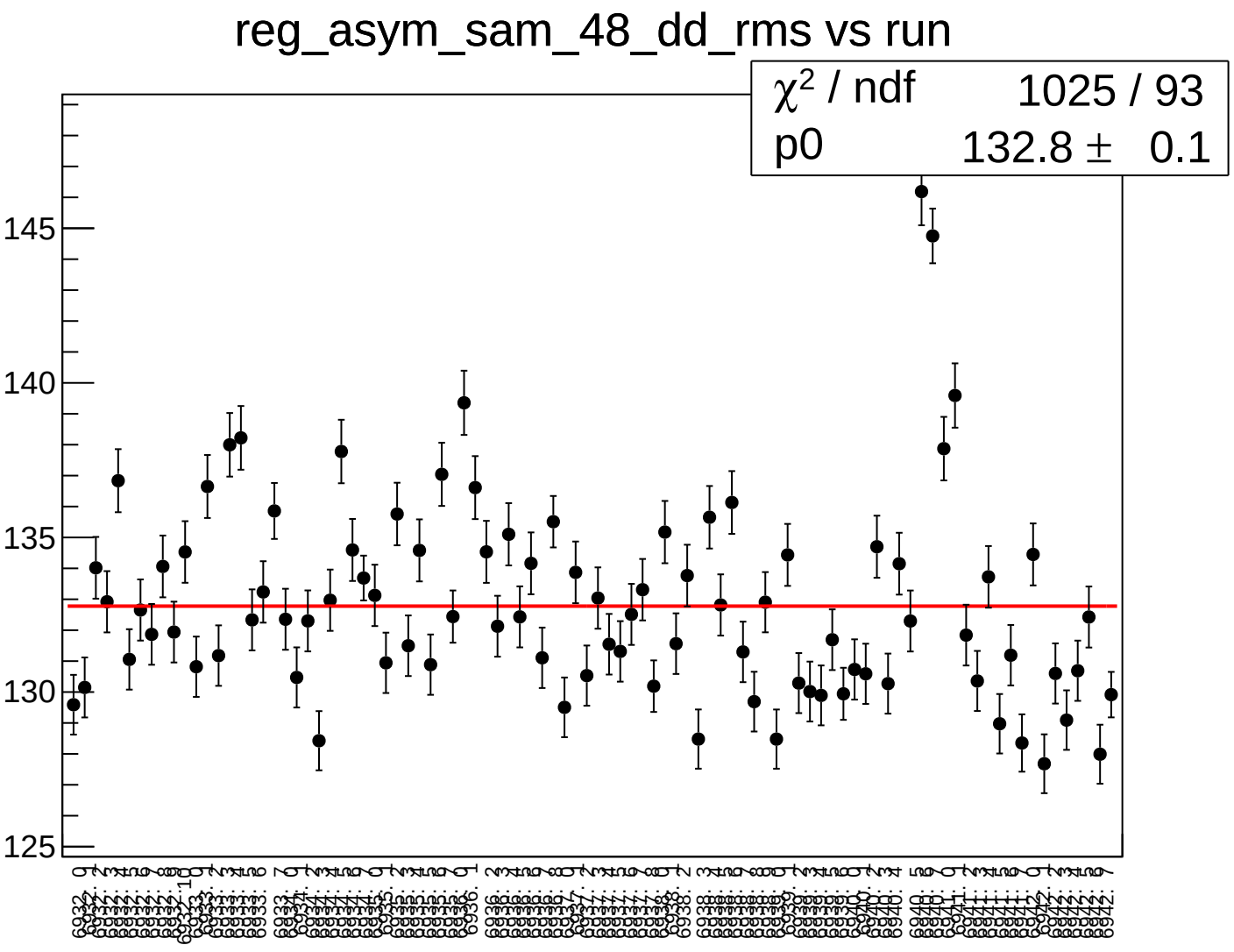

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.74 / 93
p0 −1.238e−15 ± 8.955e−15
pull
Entries 94
Mean 15.53
Std Dev 0

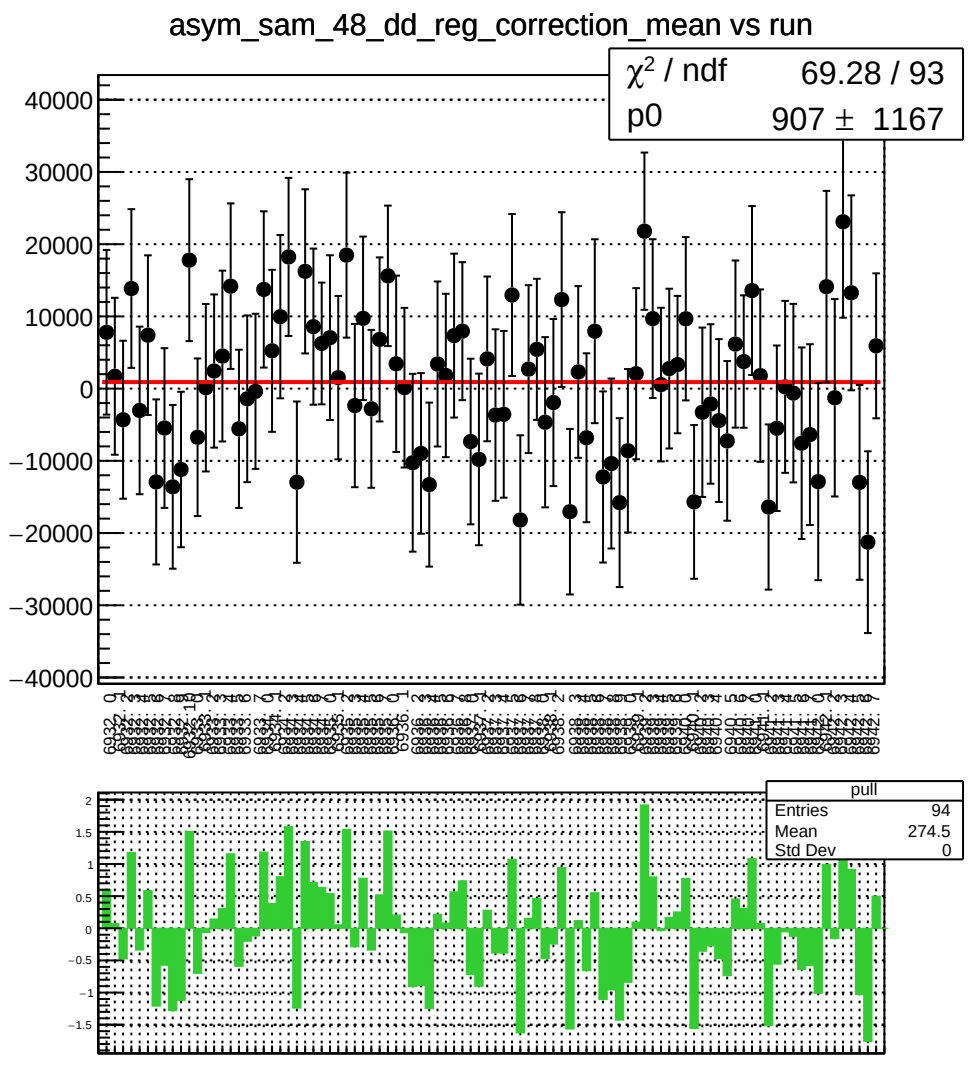

pull1D
Entries 94
Mean −0.05221
Std Dev 0.902

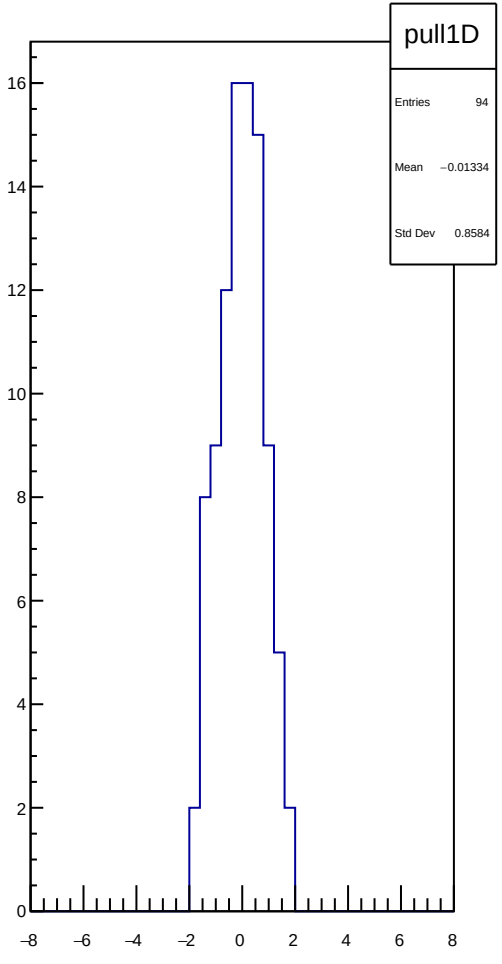

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.718e+05 / 93
p0 6.617e−12 ± 6.332e−15
60
50
40
30
20
10

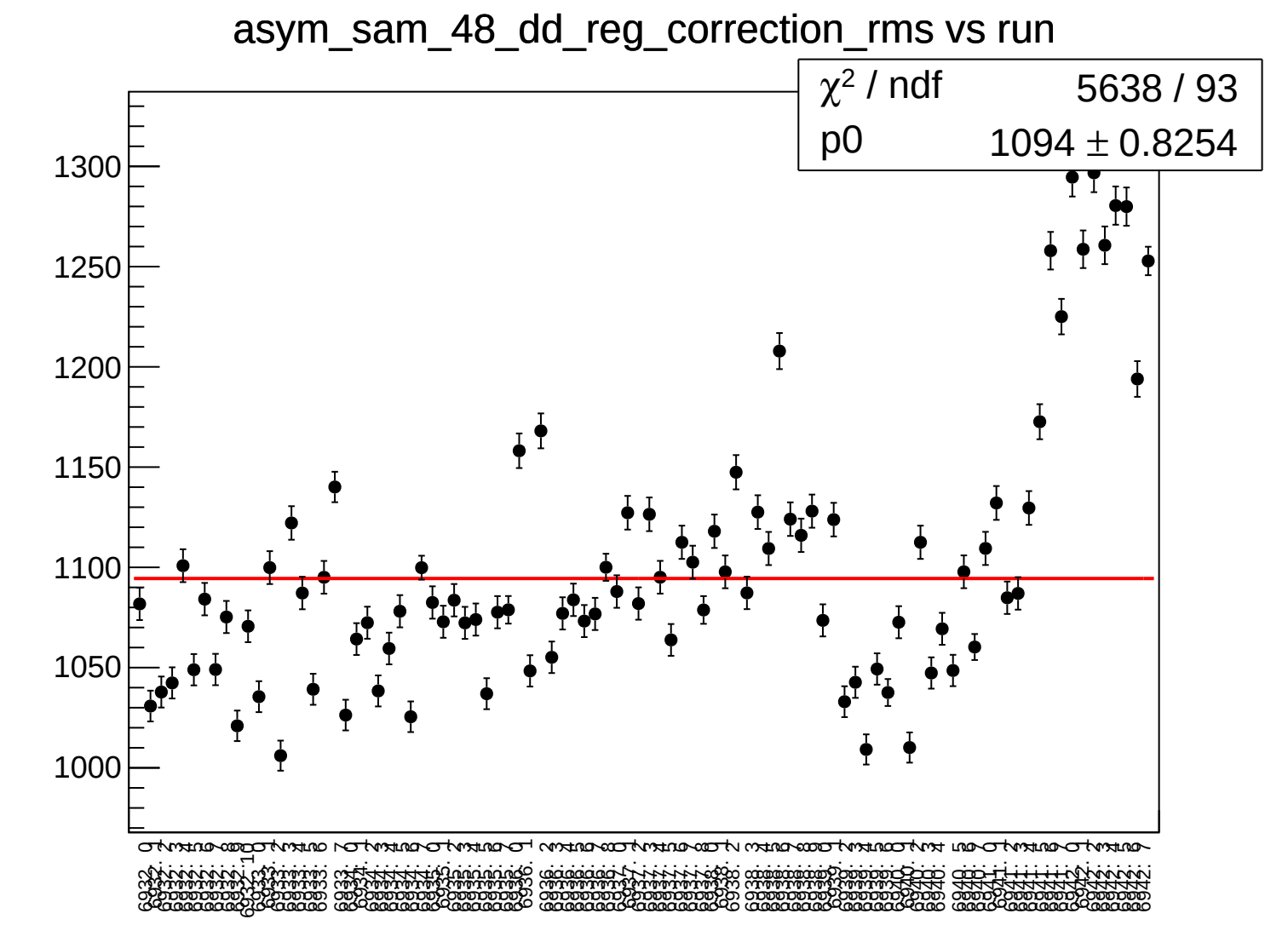

reg_asym_sam_48_dd_mean vs run
χ² / ndf 113.4 / 93
p0 −454.4 ± 141.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 75.95
Std Dev 0
3
2
1
0
−1
−2
−3

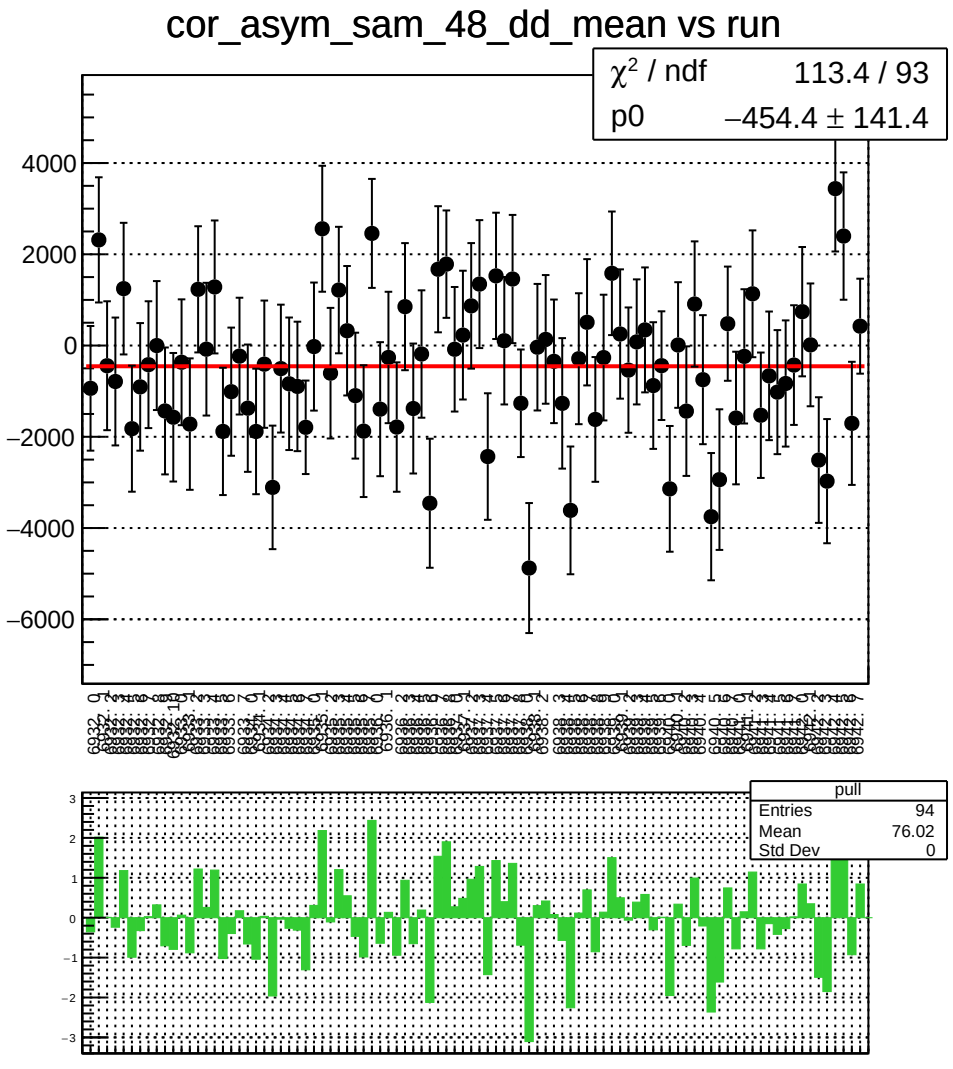

pull1D
Entries 94
Mean −0.008938
Std Dev 1.098
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

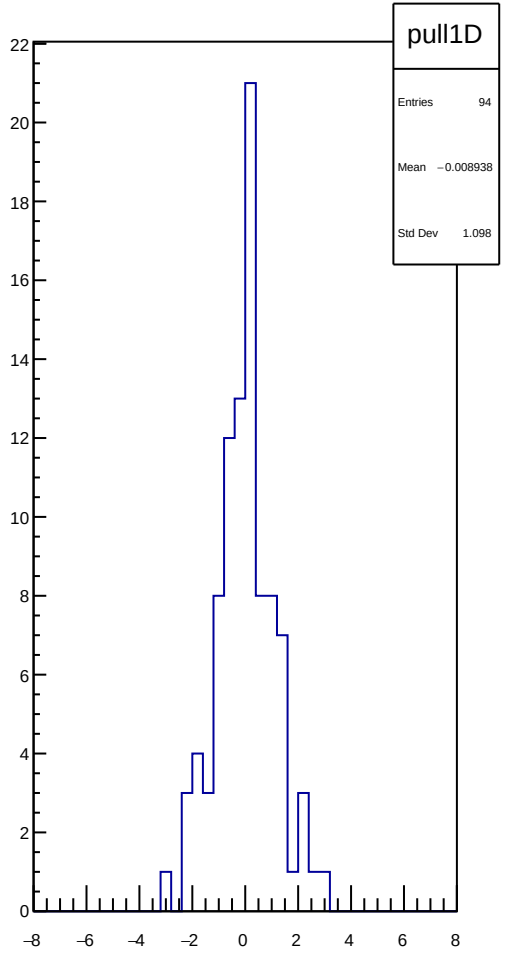

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1025 / 93
p0 132.8 ± 0.1
145
140
135
130
125

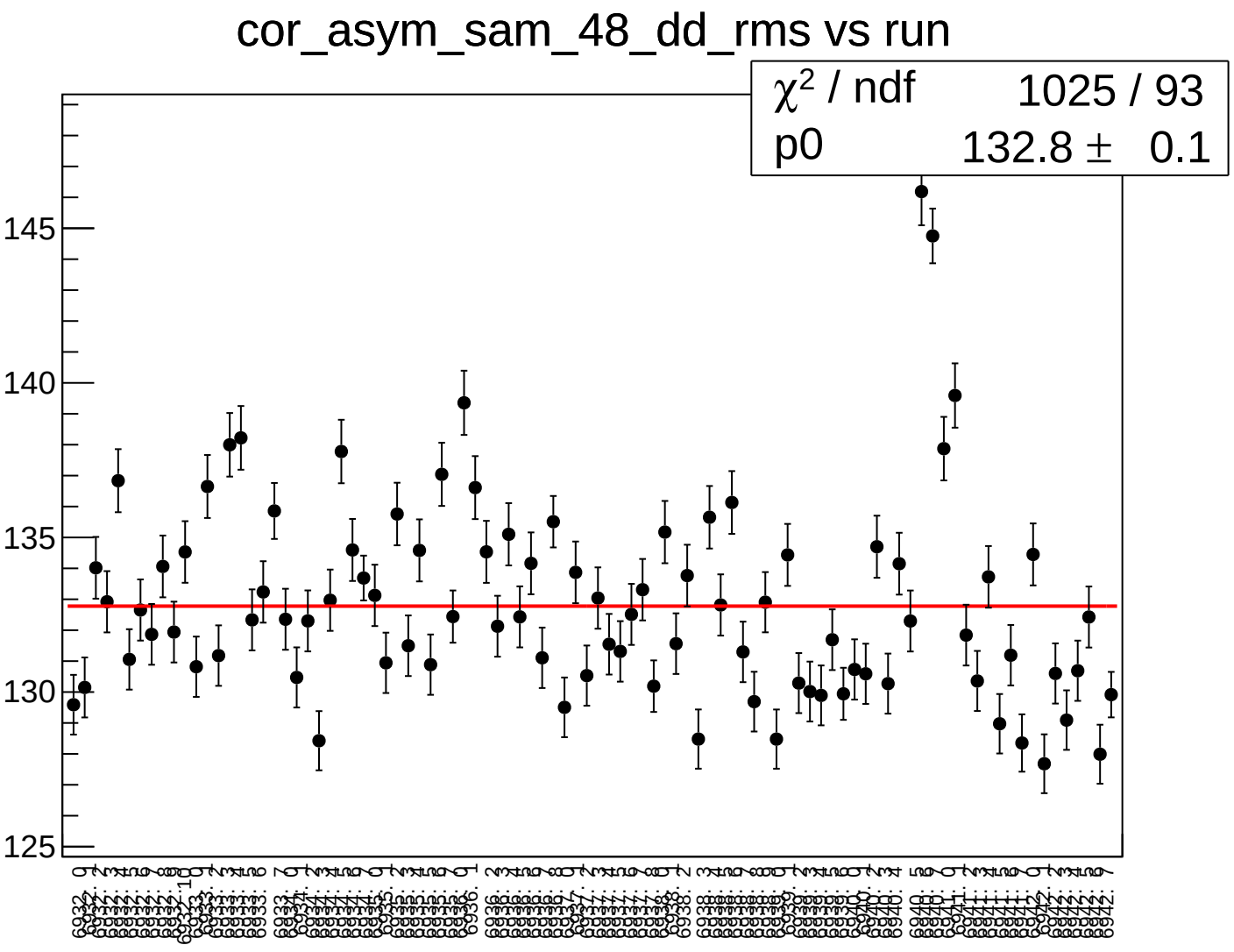

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 69.28 / 93
p0 907 ± 1167
pull
Entries 94
Mean 274.5
Std Dev 0

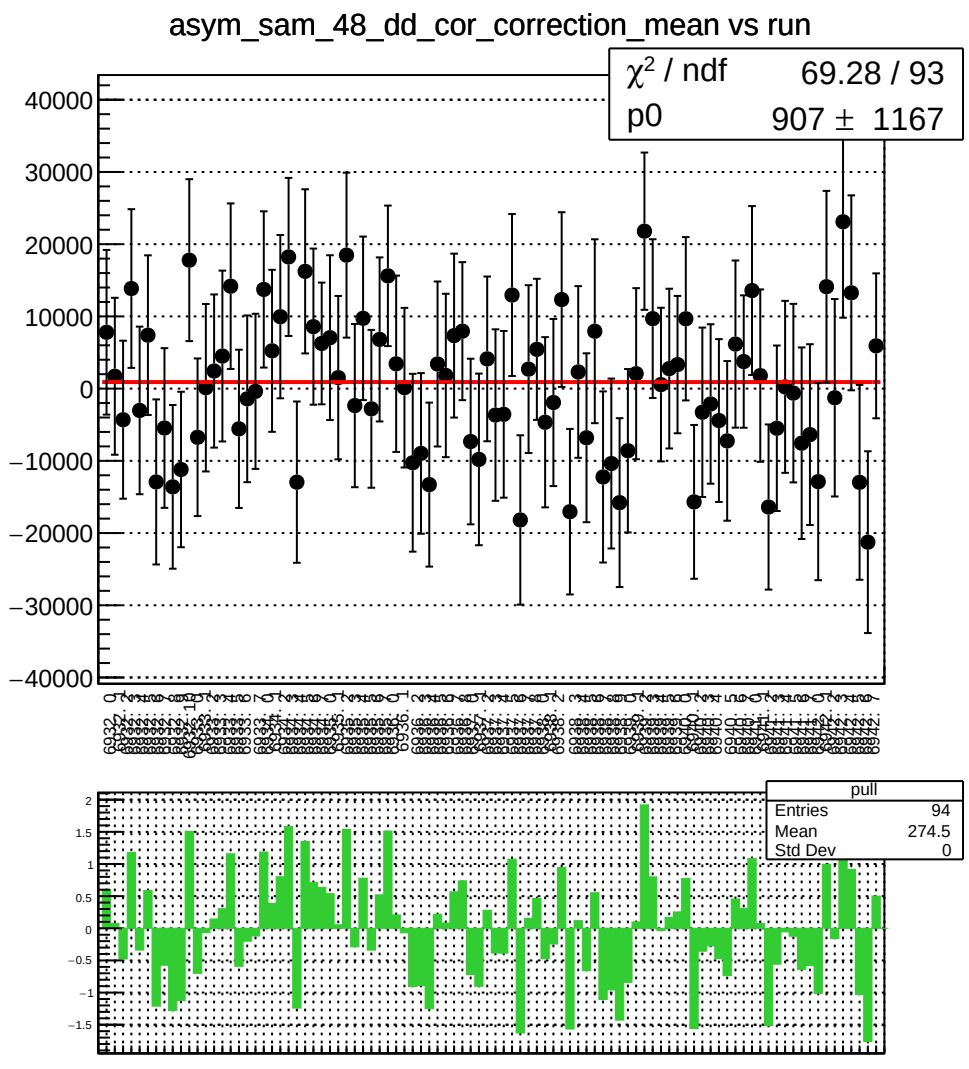

pull1D
Entries 94
Mean −0.01334
Std Dev 0.8584

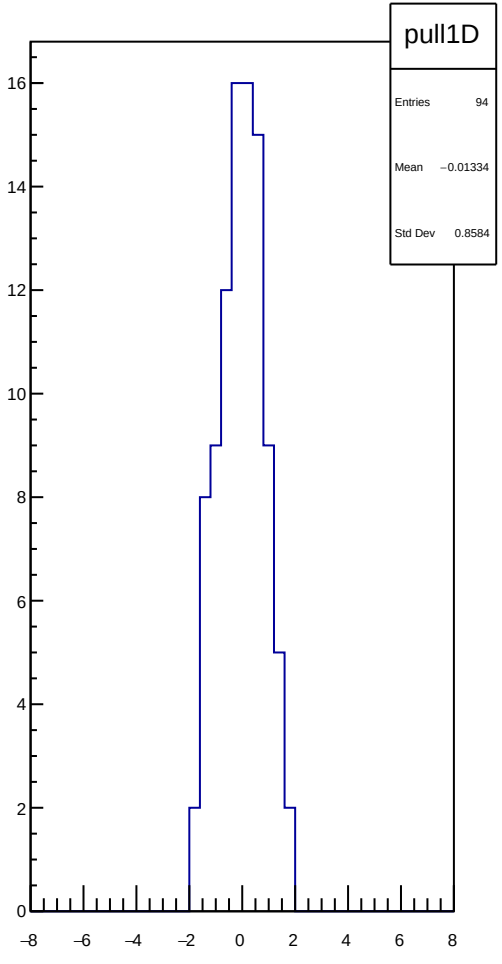

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 5638 / 93
p0 1094 ± 0.8254
1300
1250
1200
1150
1100
1050
1000

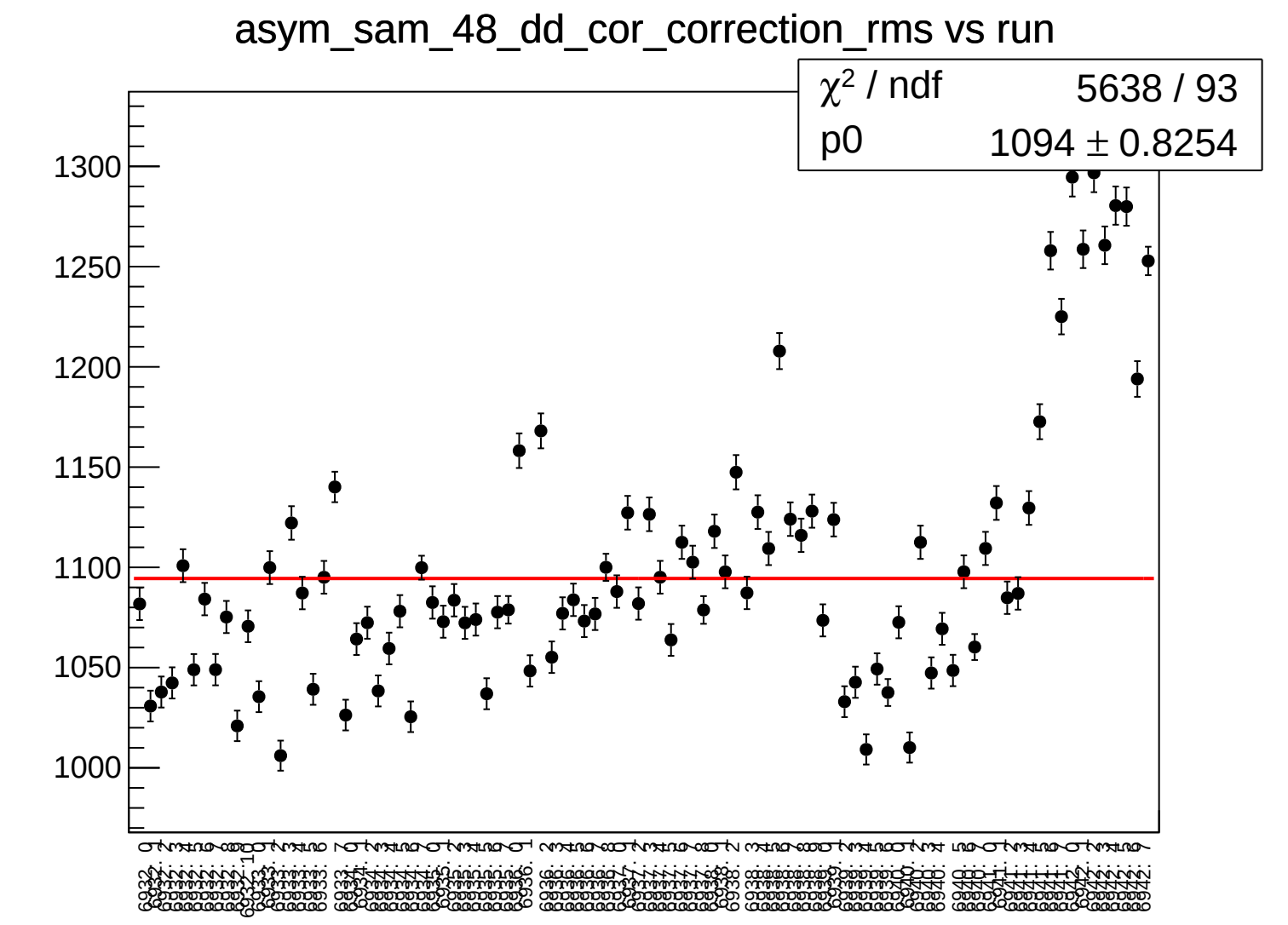

cor_asym_sam_48_dd_mean vs run
χ² / ndf 113.4 / 93
p0 −454.4 ± 141.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 76.02
Std Dev 0
3
2
1
0
−1
−2
−3

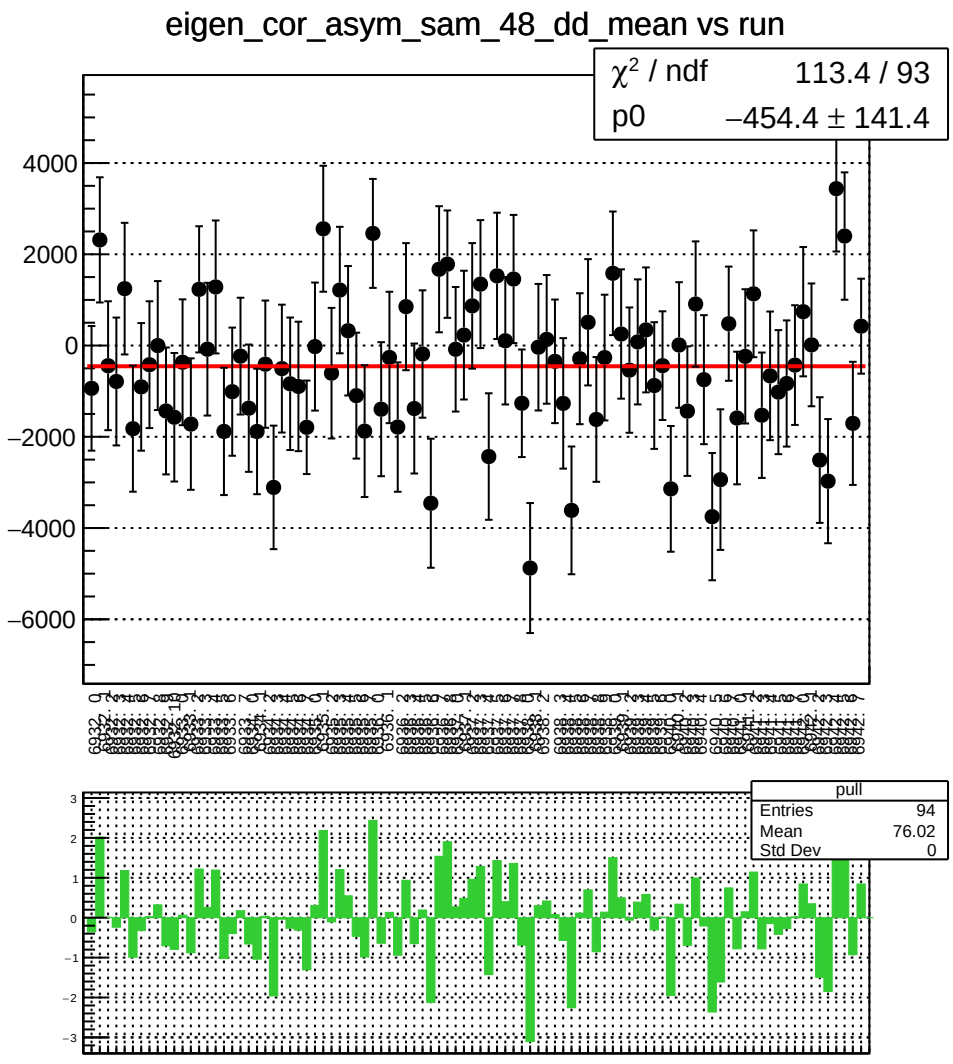

pull1D
Entries 94
Mean −0.008938
Std Dev 1.098
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

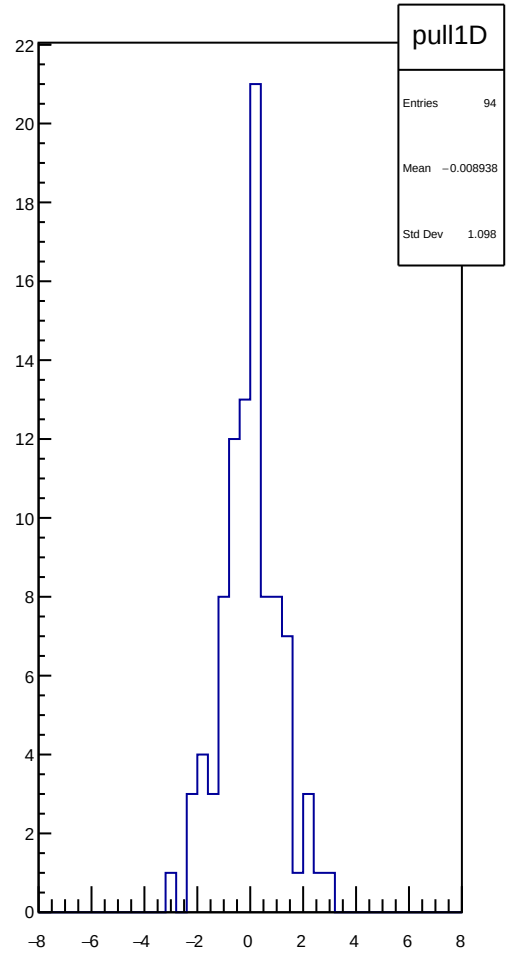

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1025 / 93
p0 132.8 ± 0.1
145
140
135
130
125

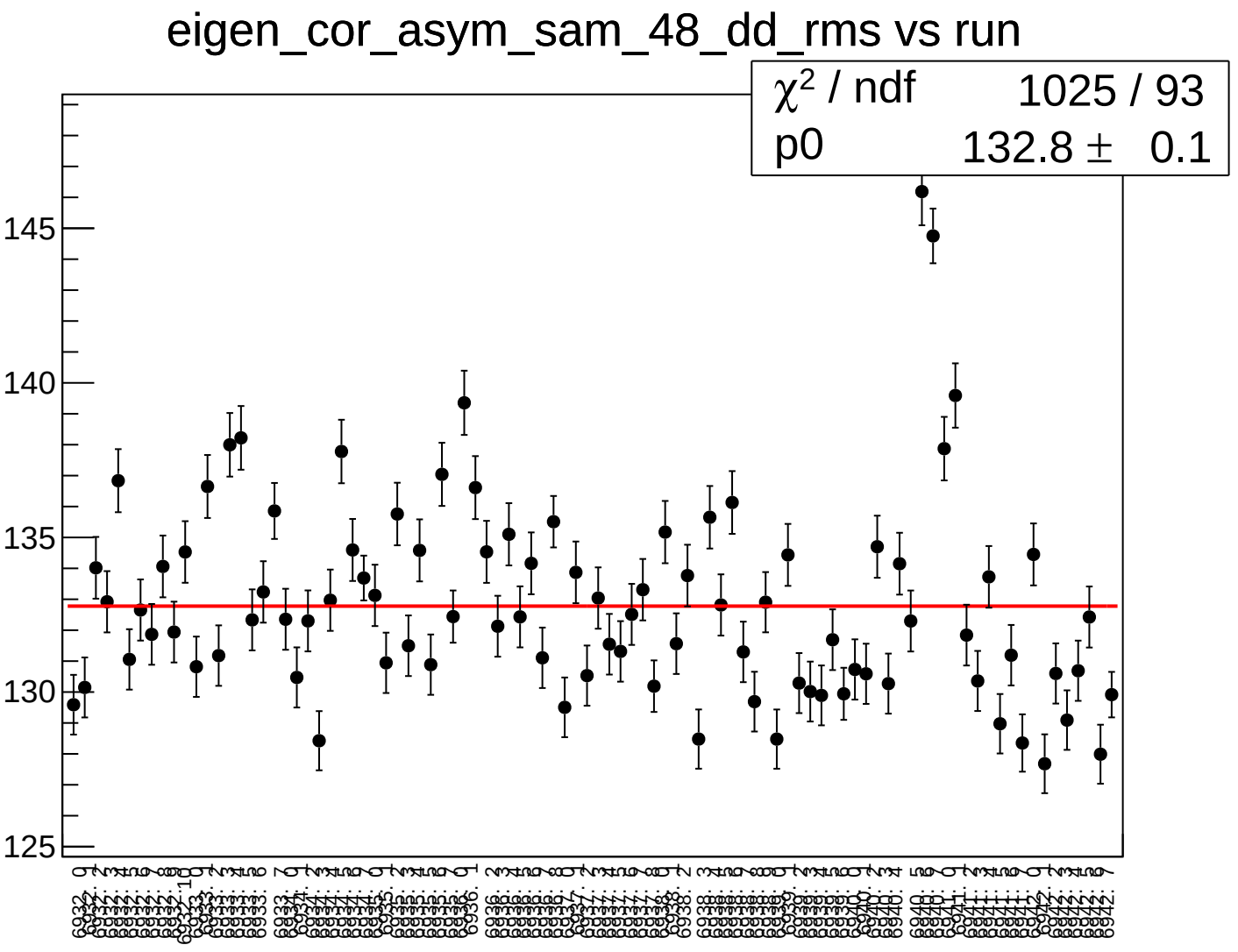

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 69.28 / 93
p0 907 ± 1167
pull
Entries 94
Mean 274.5
Std Dev 0

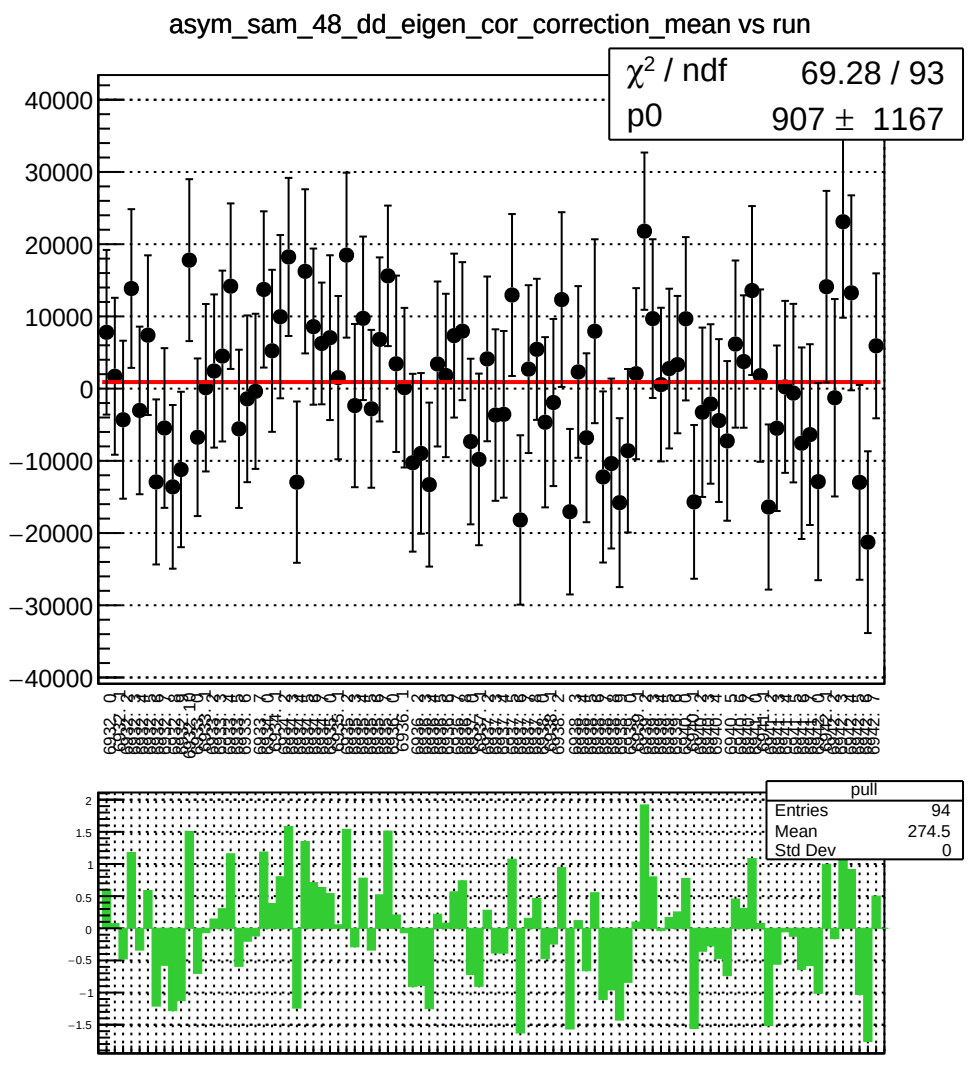

pull1D
Entries 94
Mean −0.01334
Std Dev 0.8584

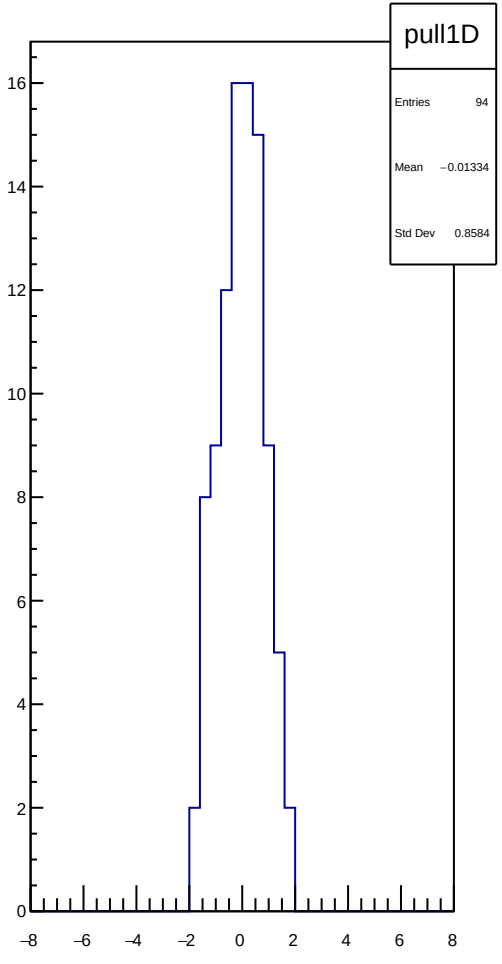

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 5638 / 93
p0 1094 ± 0.8254
1300
1250
1200
1150
1100
1050
1000

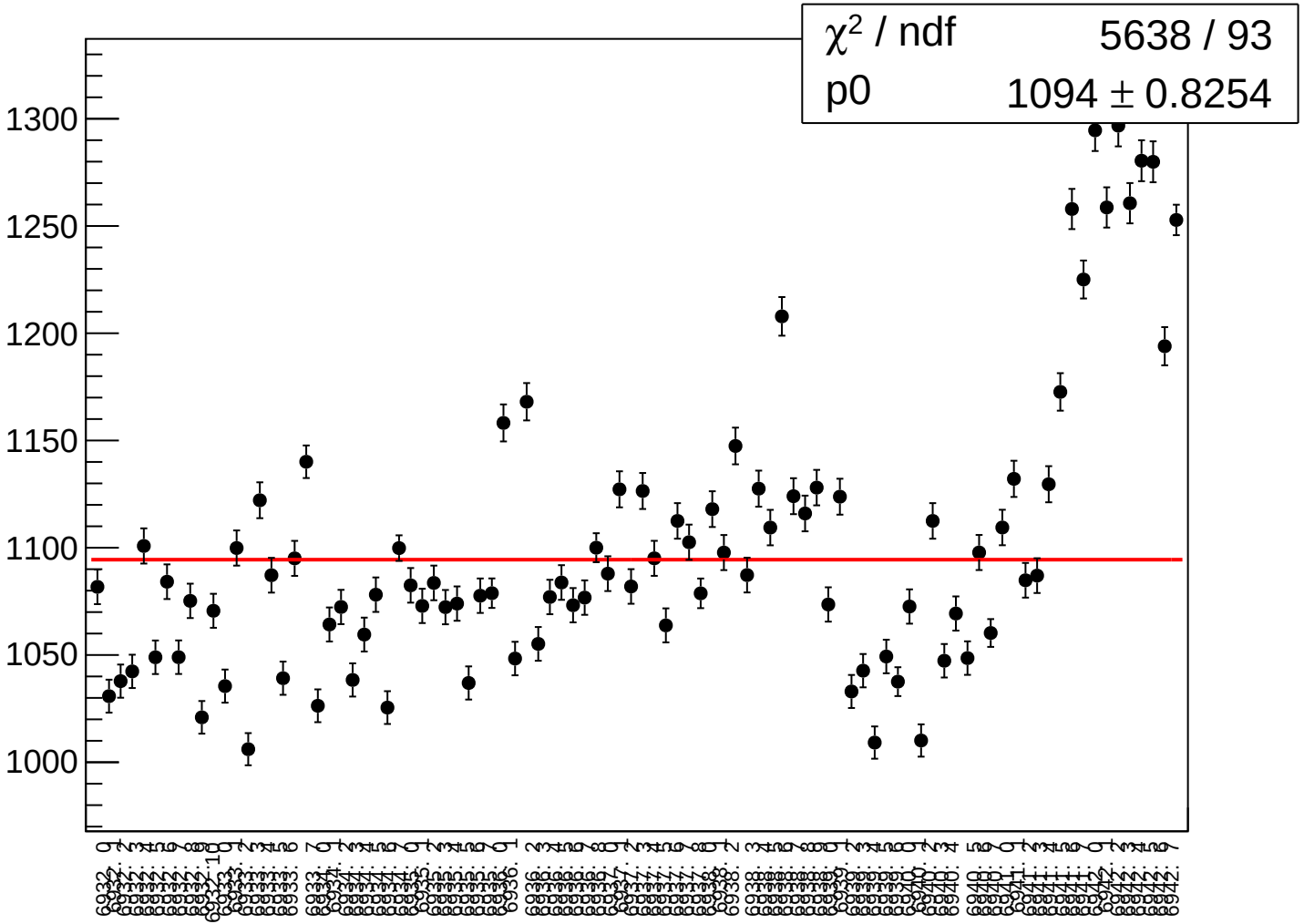

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 113.4 / 93
p0 −454.4 ± 141.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 76.02
Std Dev 0
3
2
1
0
−1
−2
−3

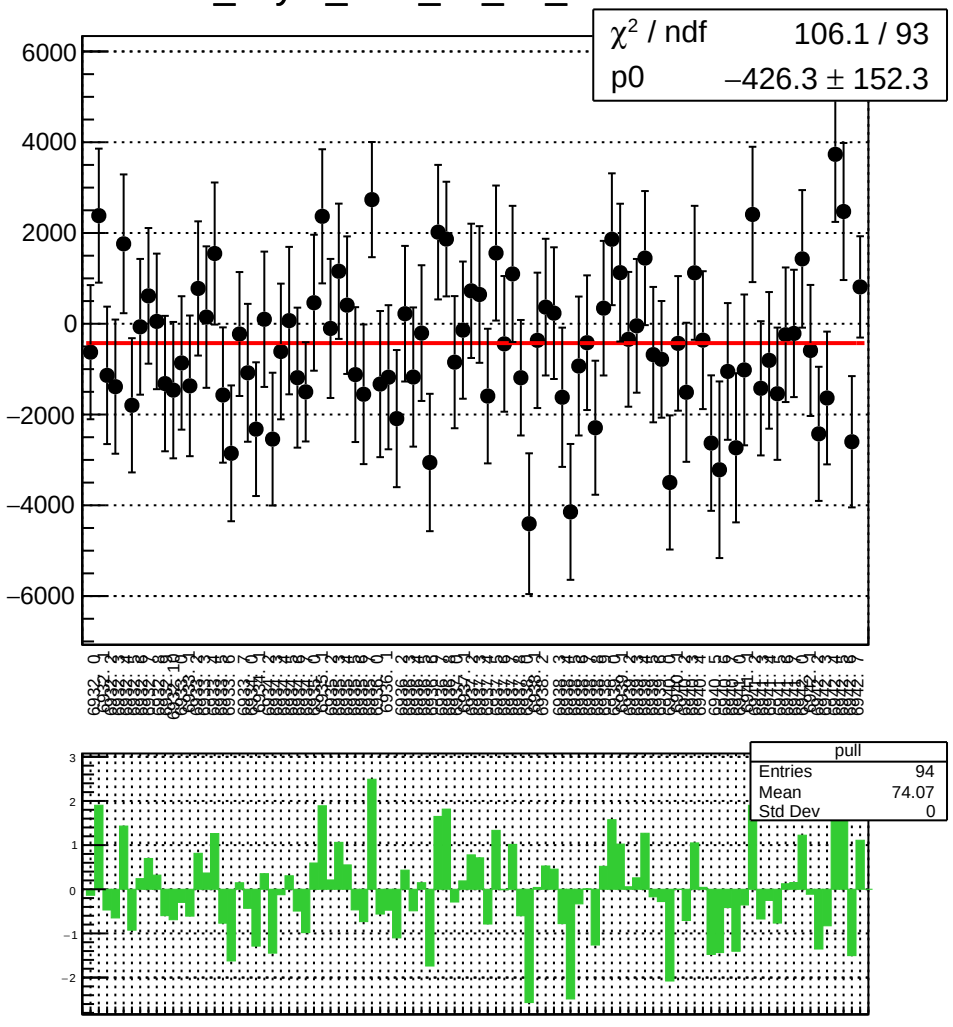

pull1D
Entries 94
Mean −0.008938
Std Dev 1.098
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

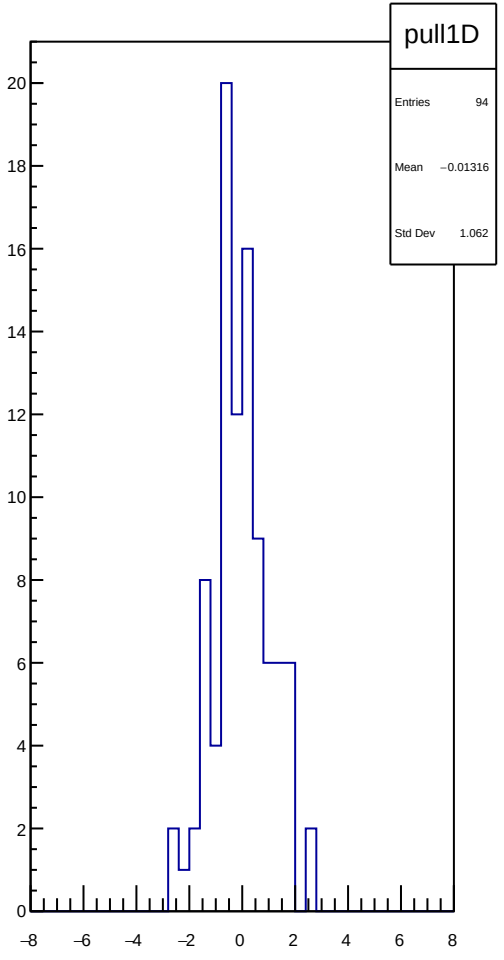

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 1025 / 93
p0 132.8 ± 0.1
145
140
135
130
125

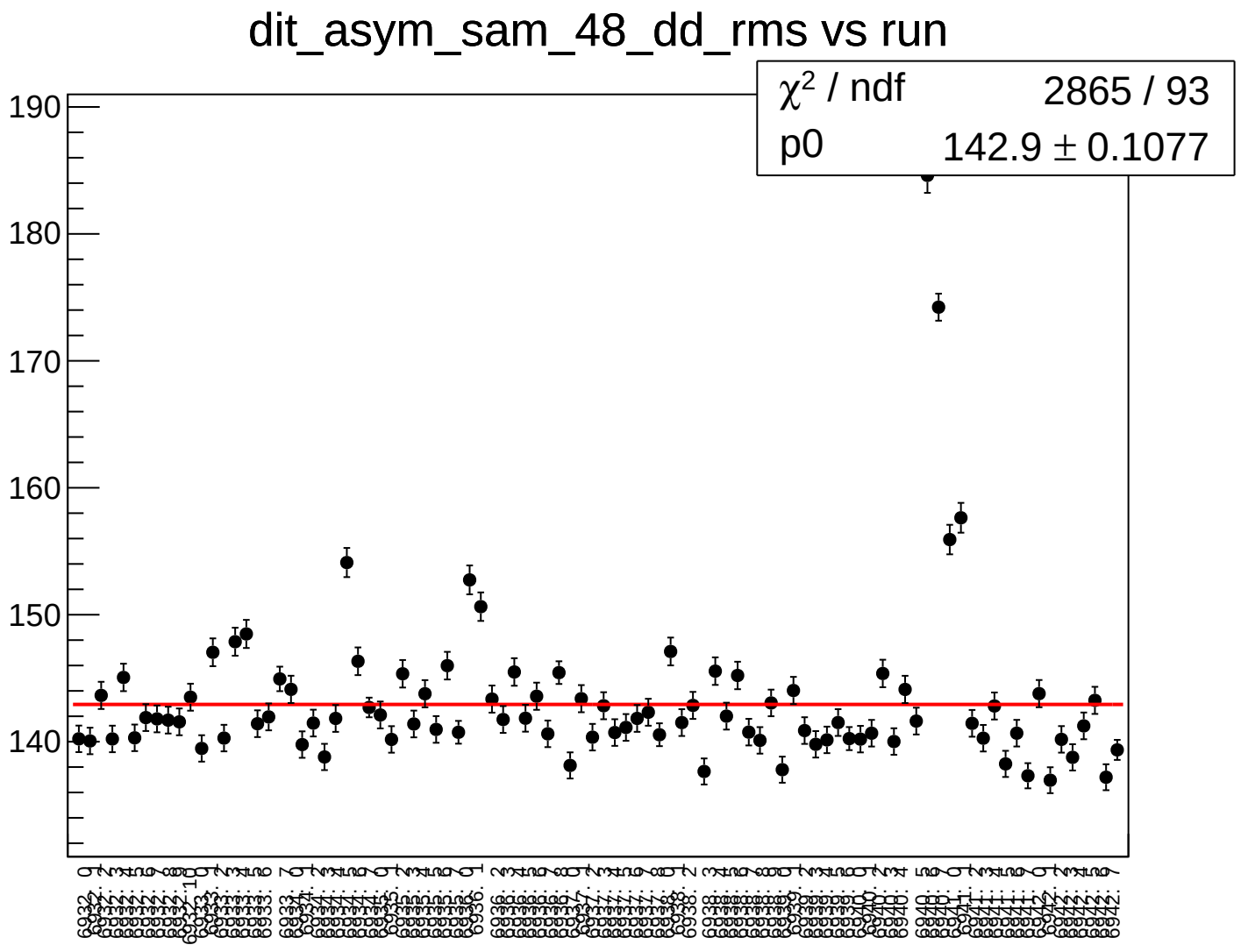

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.28 / 93
p0 907 ± 1167
pull
Entries 94
Mean 274.5
Std Dev 0

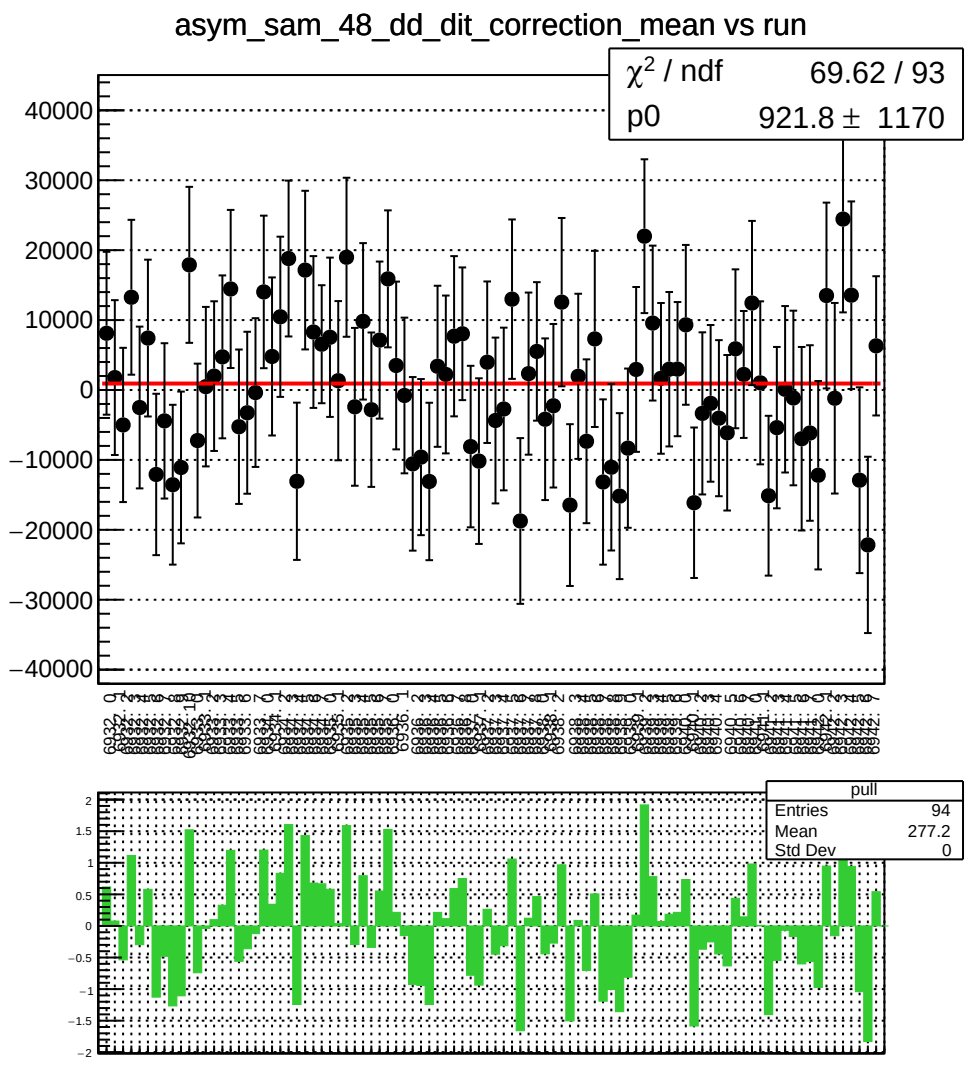

pull1D
Entries 94
Mean −0.01334
Std Dev 0.8584

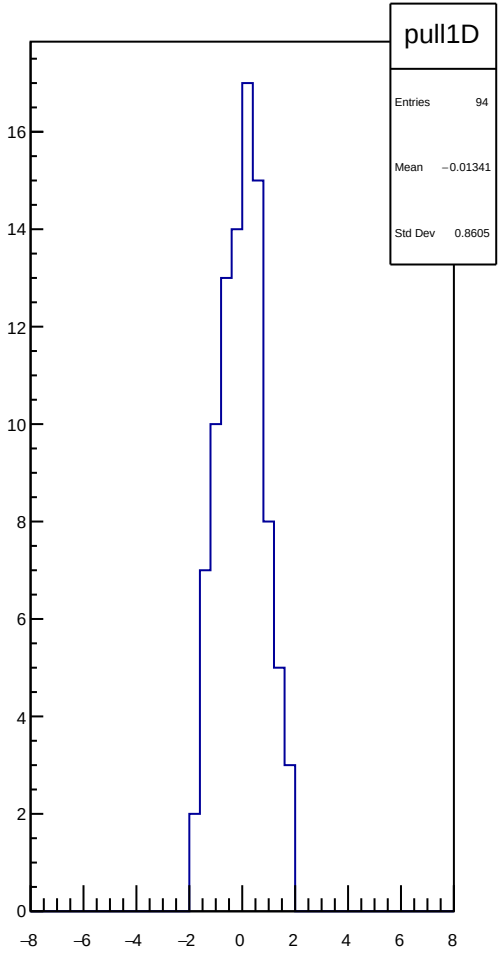

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5638 / 93
p0 1094 ± 0.8254
1300
1250
1200
1150
1100
1050
1000

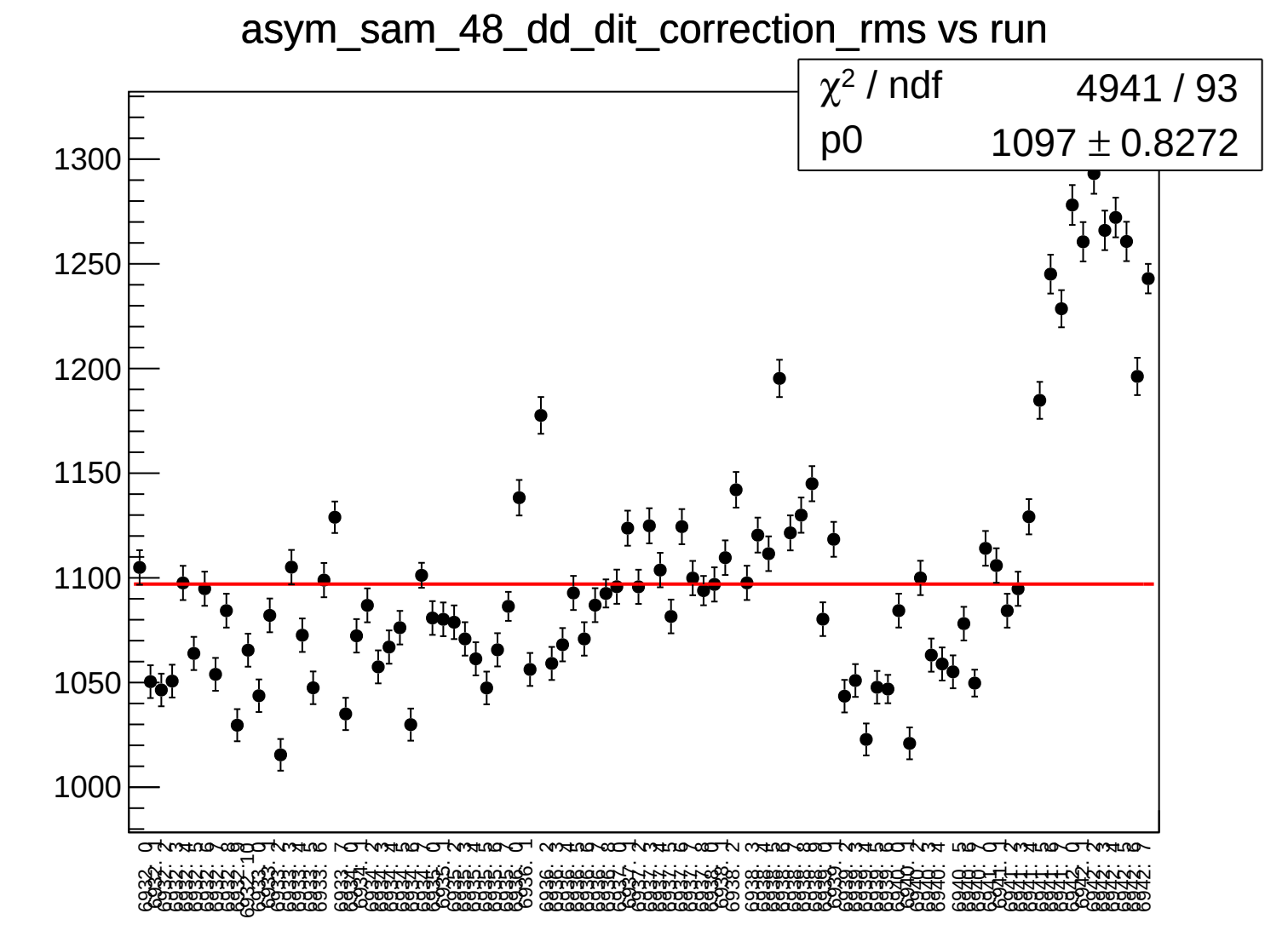

dit_asym_sam_48_dd_mean vs run
χ² / ndf 106.1 / 93
p0 −426.3 ± 152.3
pull
Entries 94
Mean 74.07
Std Dev 0

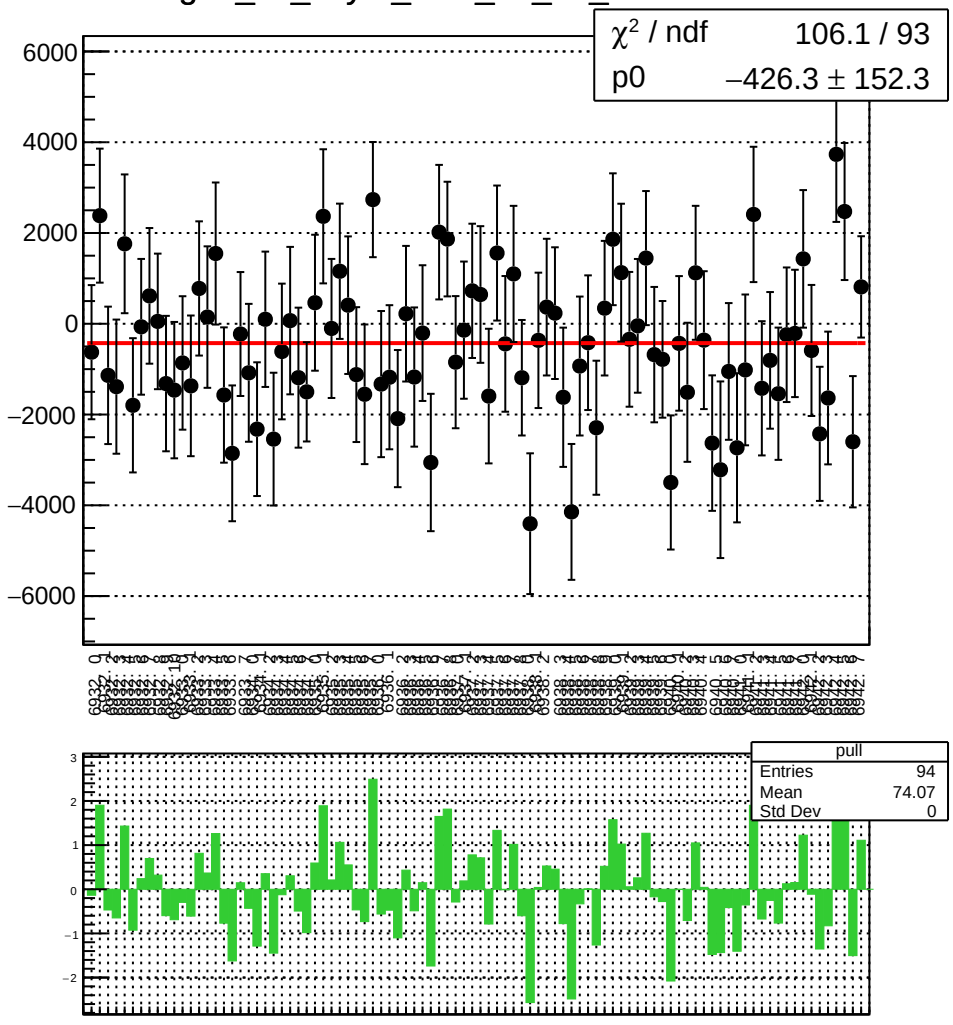

pull1D
Entries 94
Mean −0.01316
Std Dev 1.062

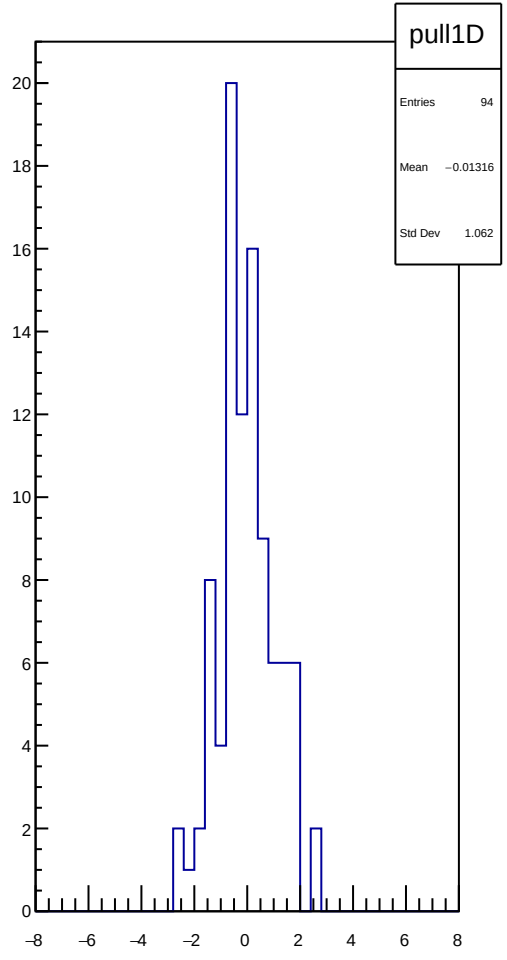

dit_asym_sam_48_dd_rms vs run
χ² / ndf 2865 / 93
p0 142.9 ± 0.1077
190
180
170
160
150
140

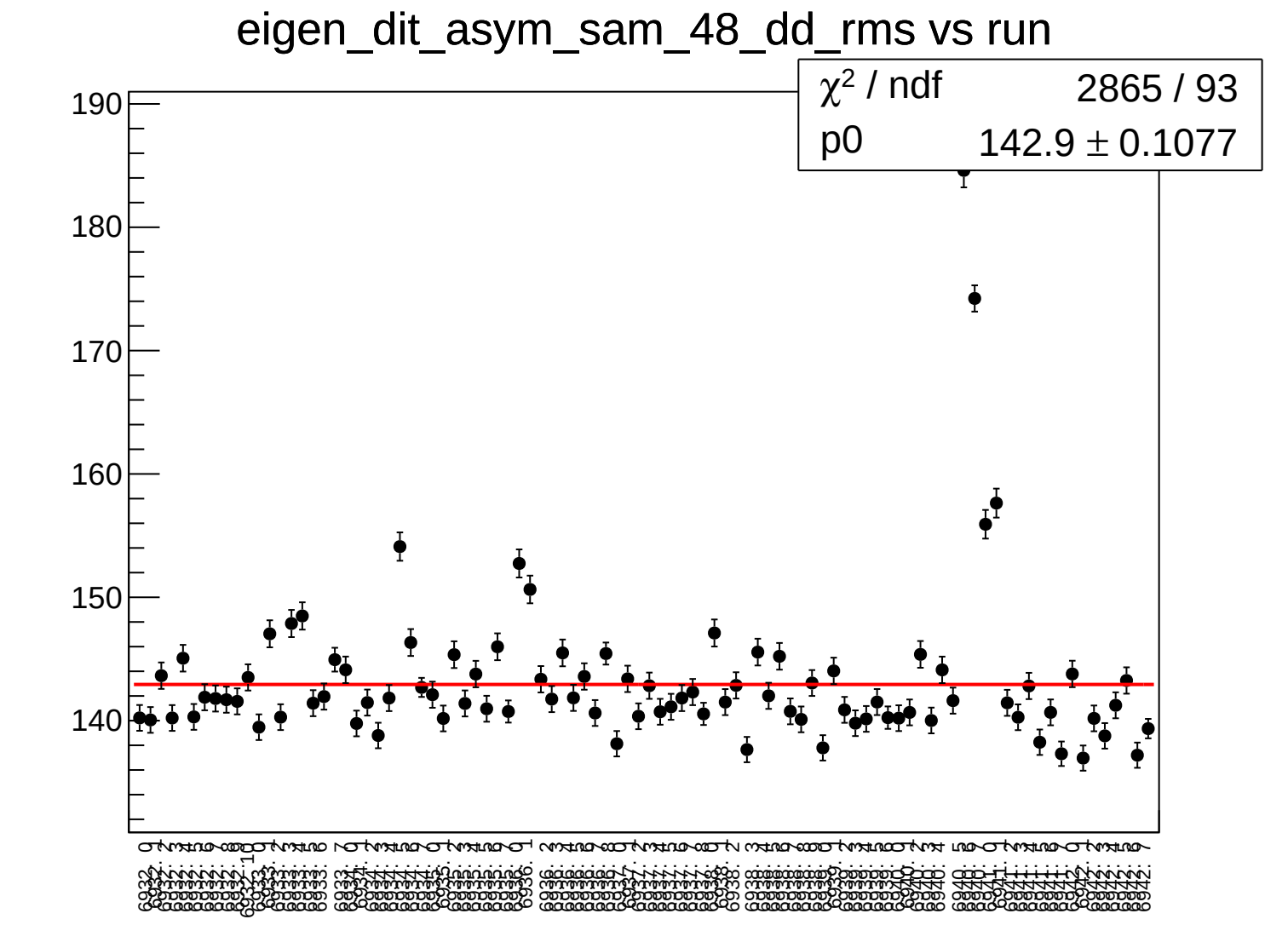

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 69.62 / 93
p0 921.8 ± 1170
pull
Entries 94
Mean 277.2
Std Dev 0

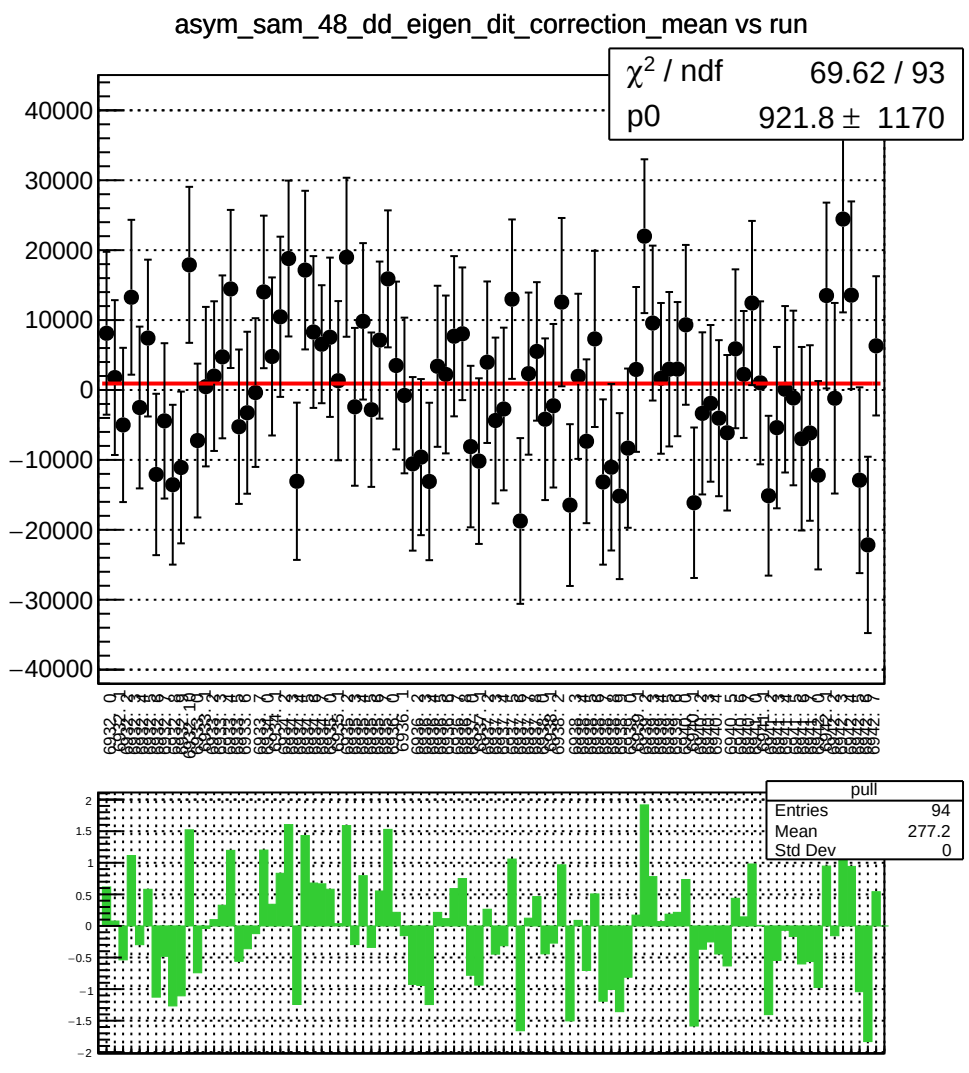

pull1D
Entries 94
Mean −0.01341
Std Dev 0.8605

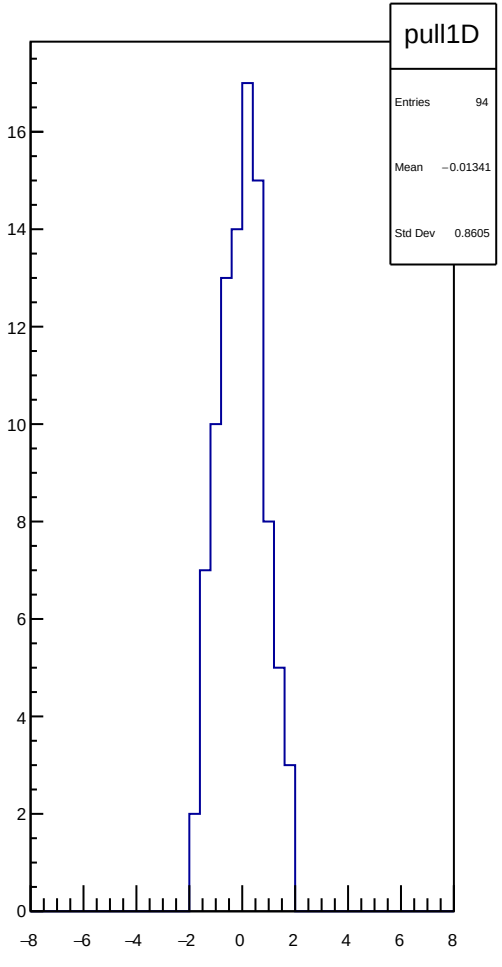

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 4941 / 93
p0 1097 ± 0.8272
1300
1250
1200
1150
1100
1050
1000

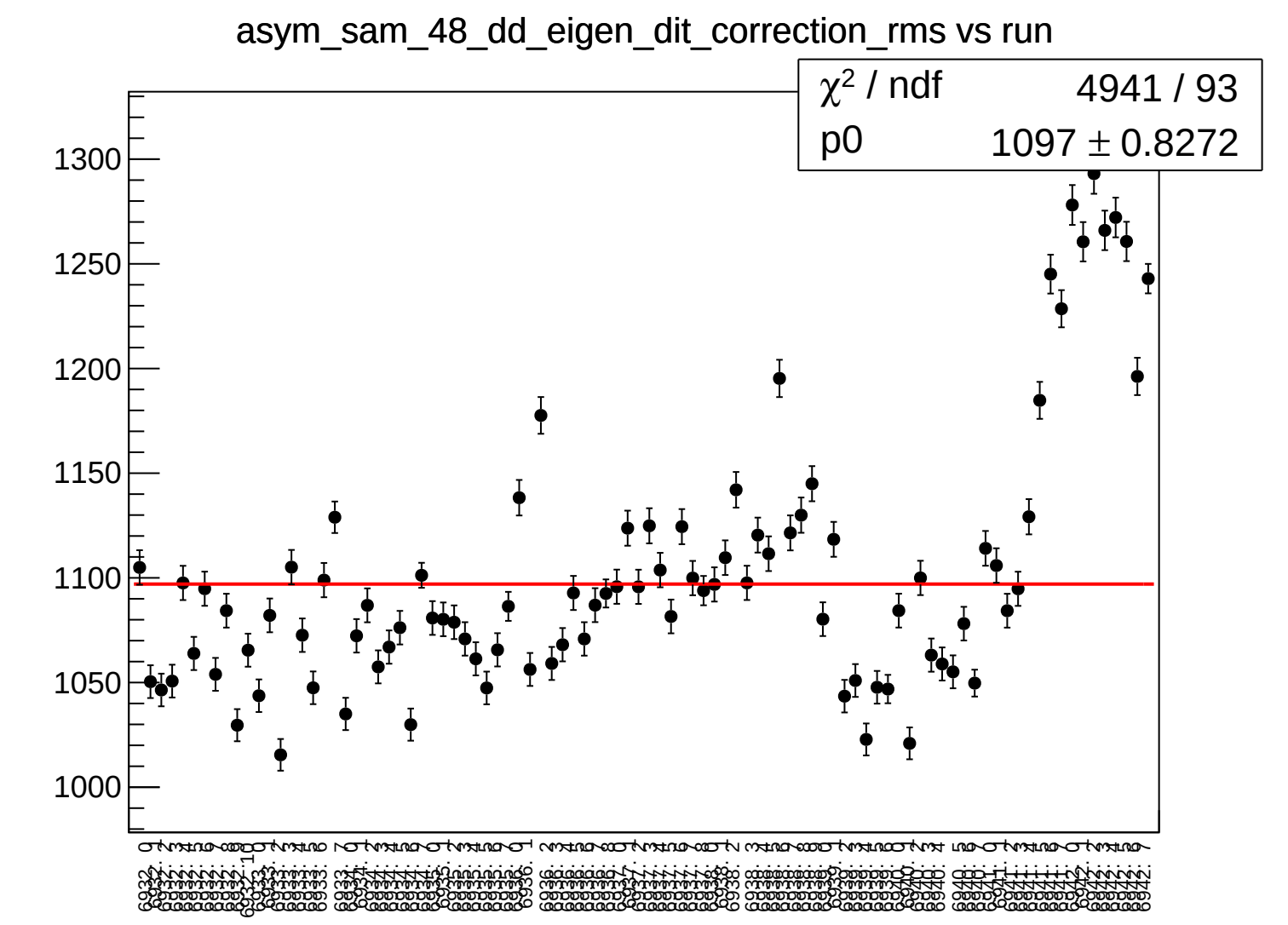

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 106.1 / 93
p0 −426.3 ± 152.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 74.07
Std Dev 0
3
2
1
0
−1
−2

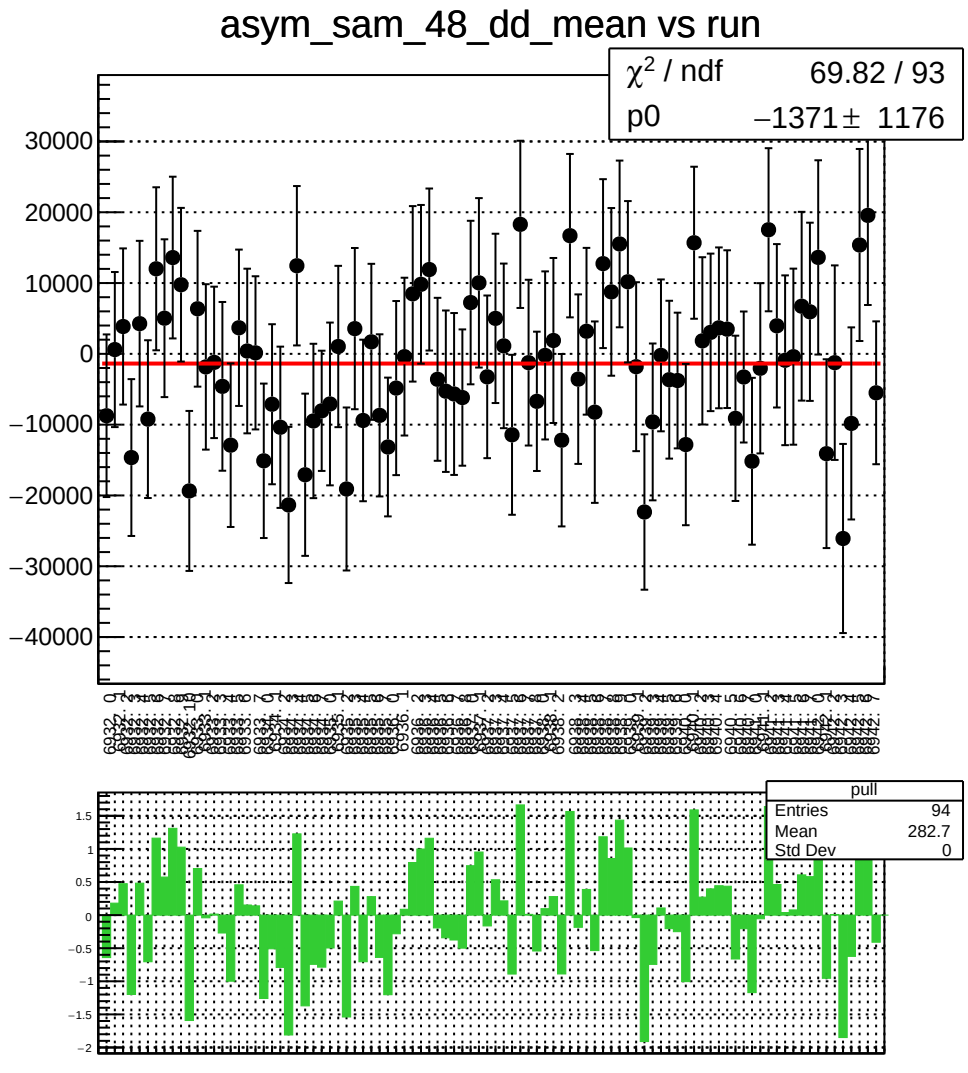

pull1D
Entries 94
Mean −0.01316
Std Dev 1.062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

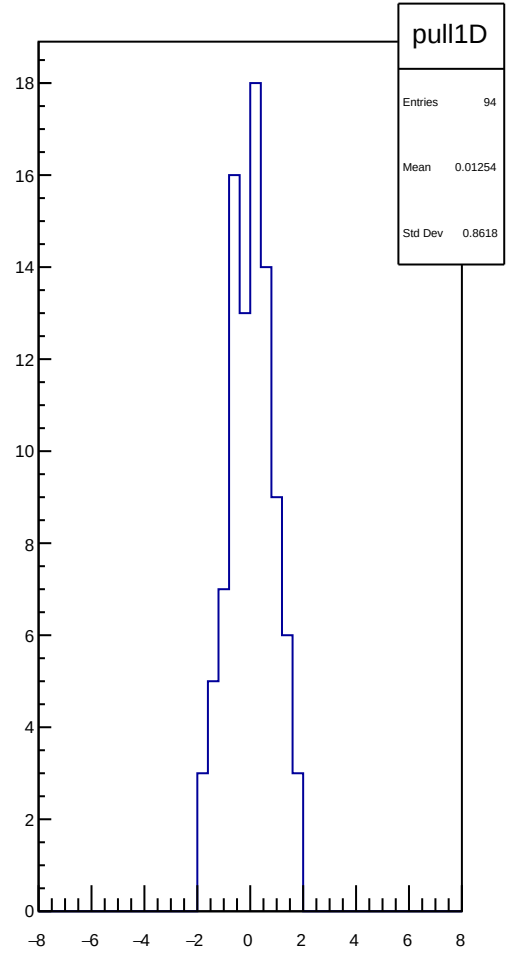

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 2865 / 93
p0 142.9 ± 0.1077
190
180
170
160
150
140

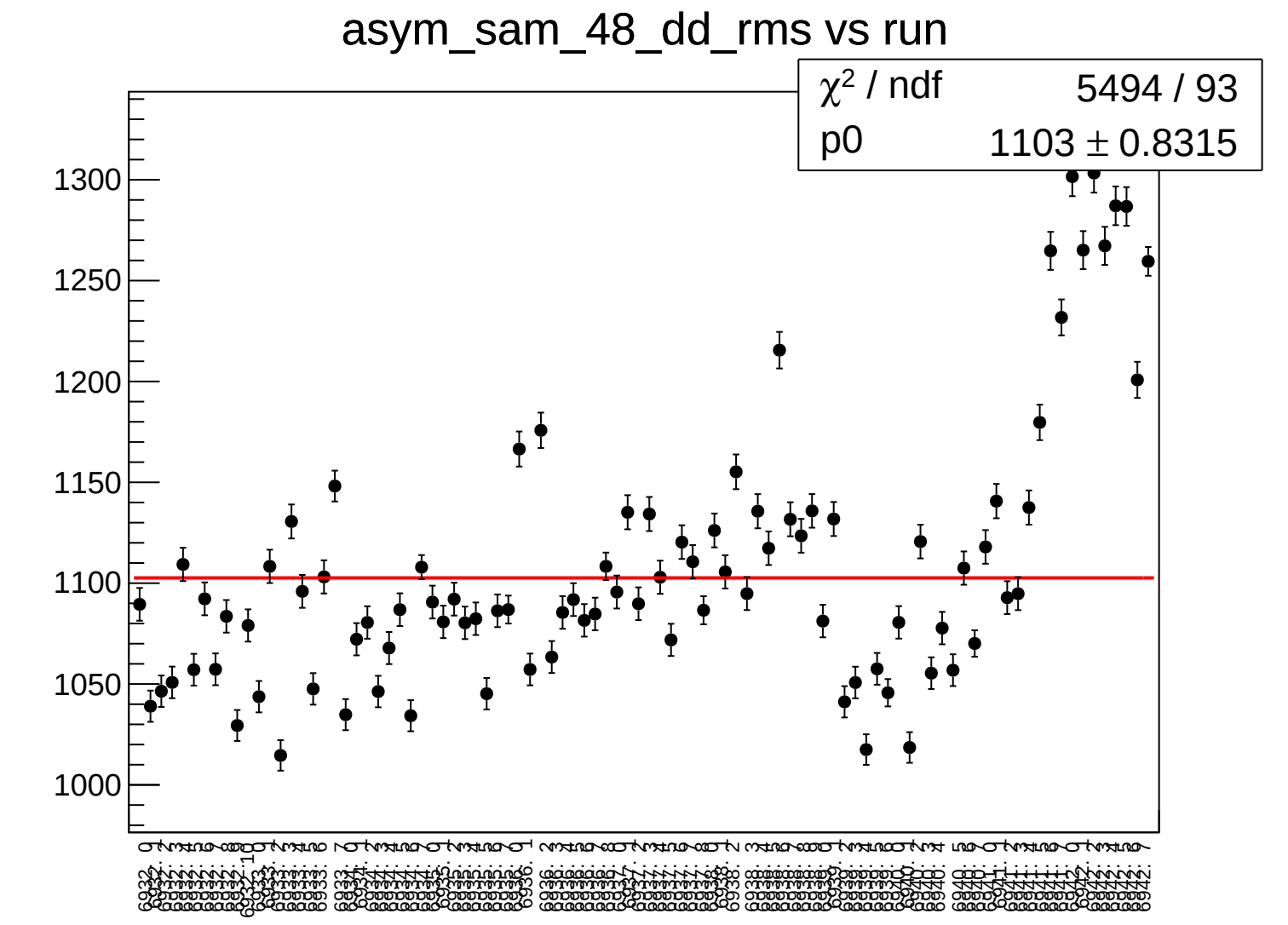

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.62 / 93
p0 921.8 ± 1170
pull
Entries 94
Mean 277.2
Std Dev 0

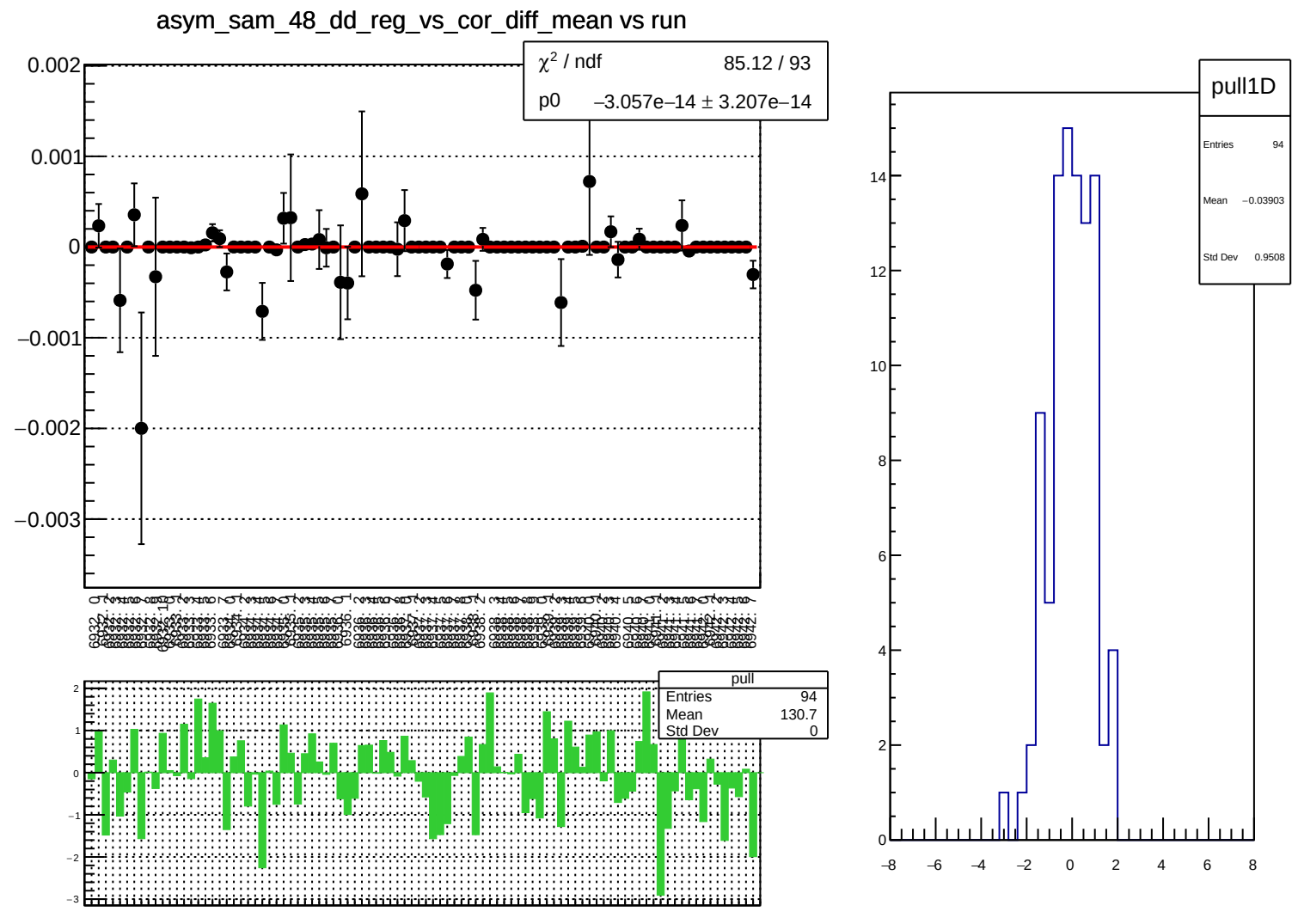

pull1D
Entries 94
Mean −0.01341
Std Dev 0.8605

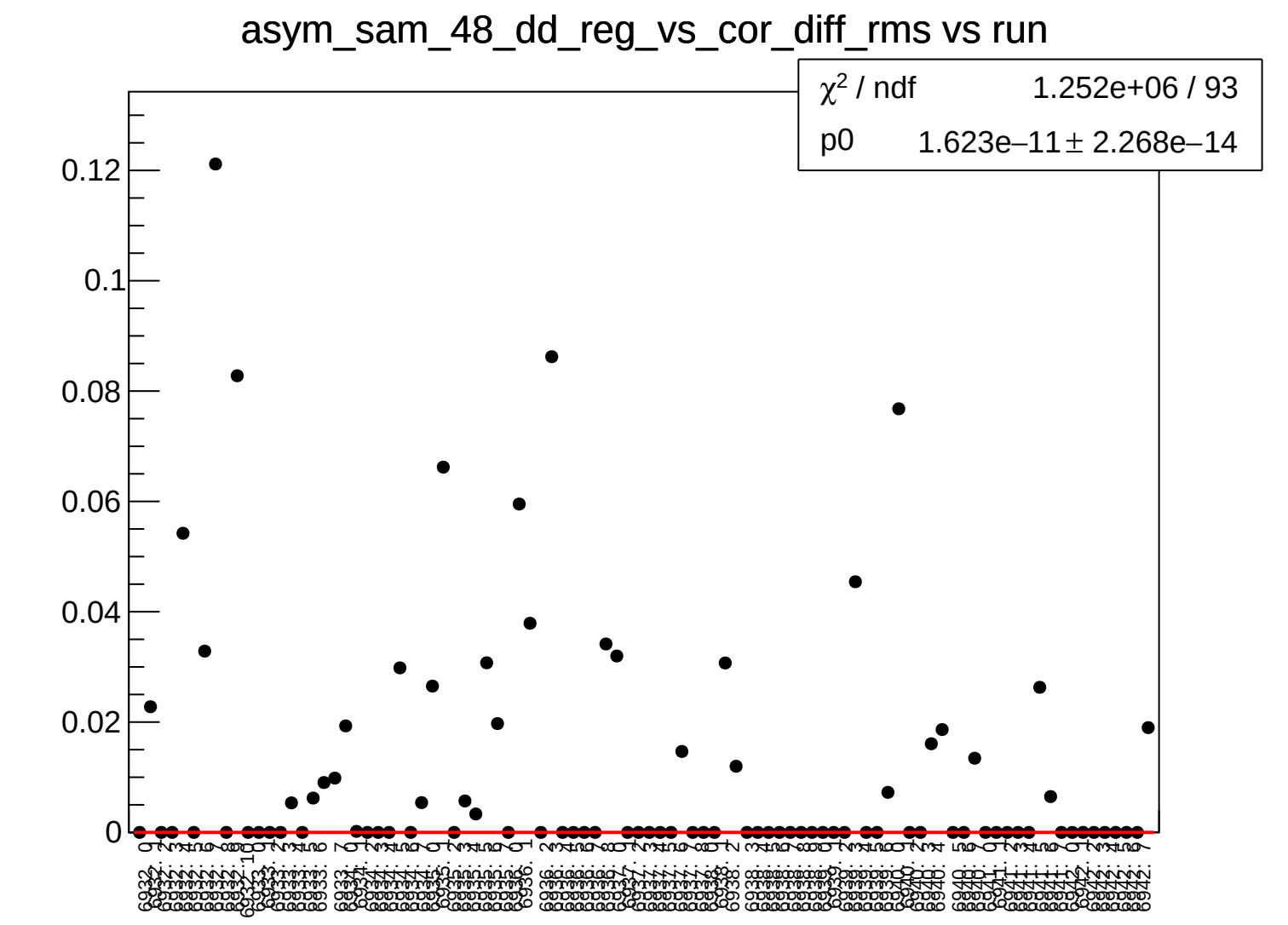

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4941 / 93
p0 1097 ± 0.8272
1300
1250
1200
1150
1100
1050
1000

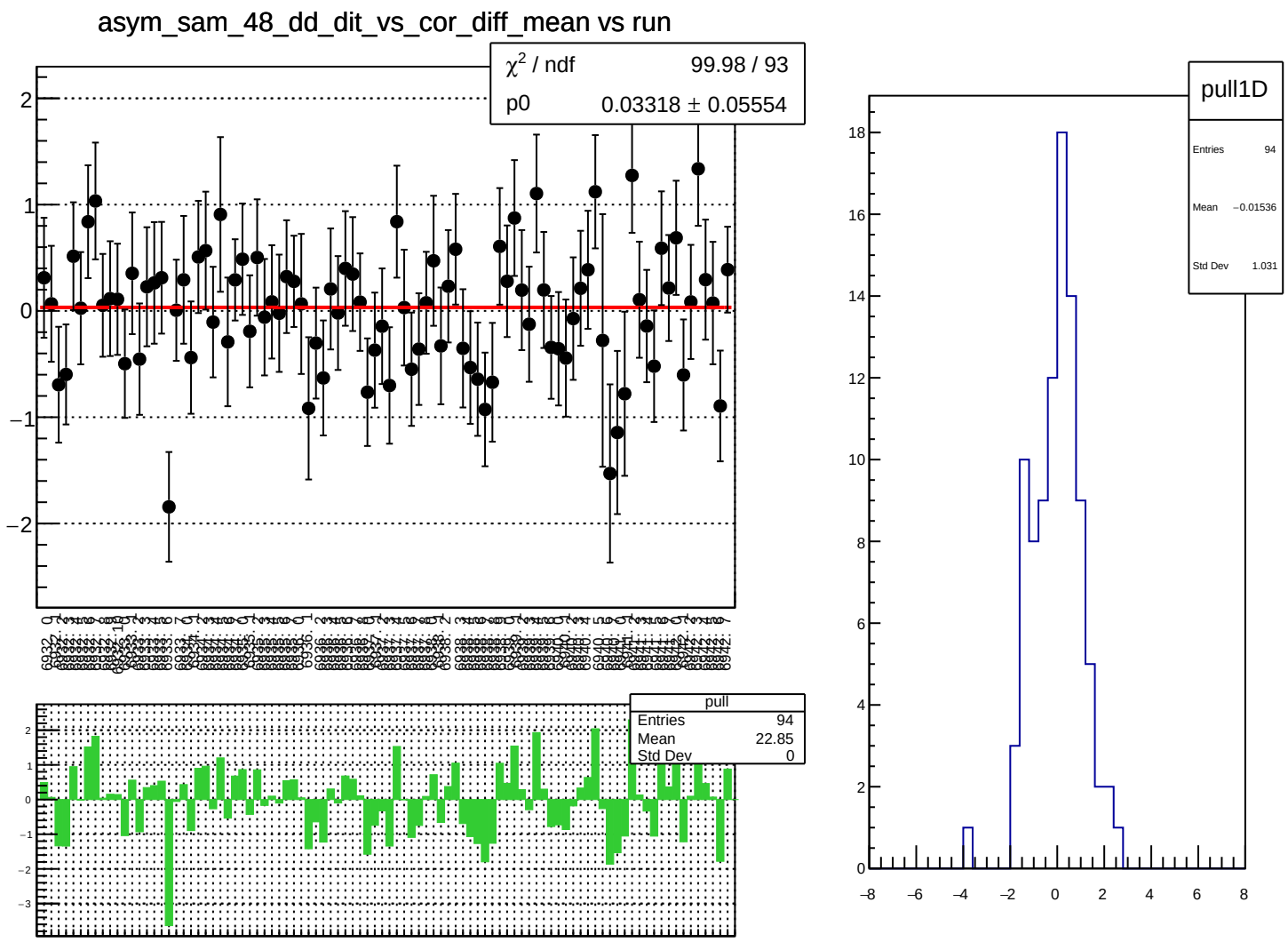

asym_sam_48_dd_mean vs run
χ² / ndf 69.82 / 93
p0 −1371 ± 1176
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 282.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

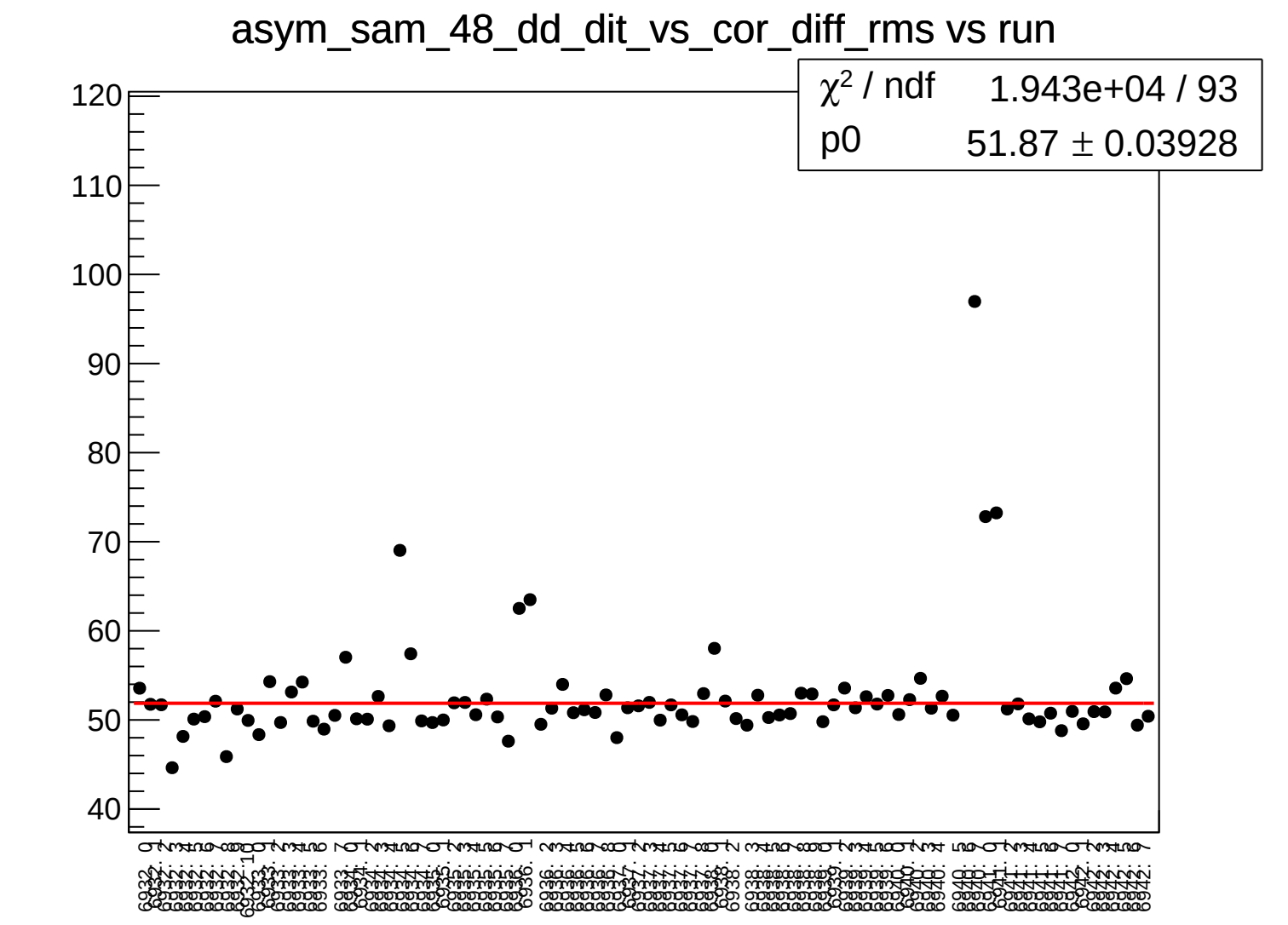

pull1D
Entries 94
Mean 0.01254
Std Dev 0.8618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

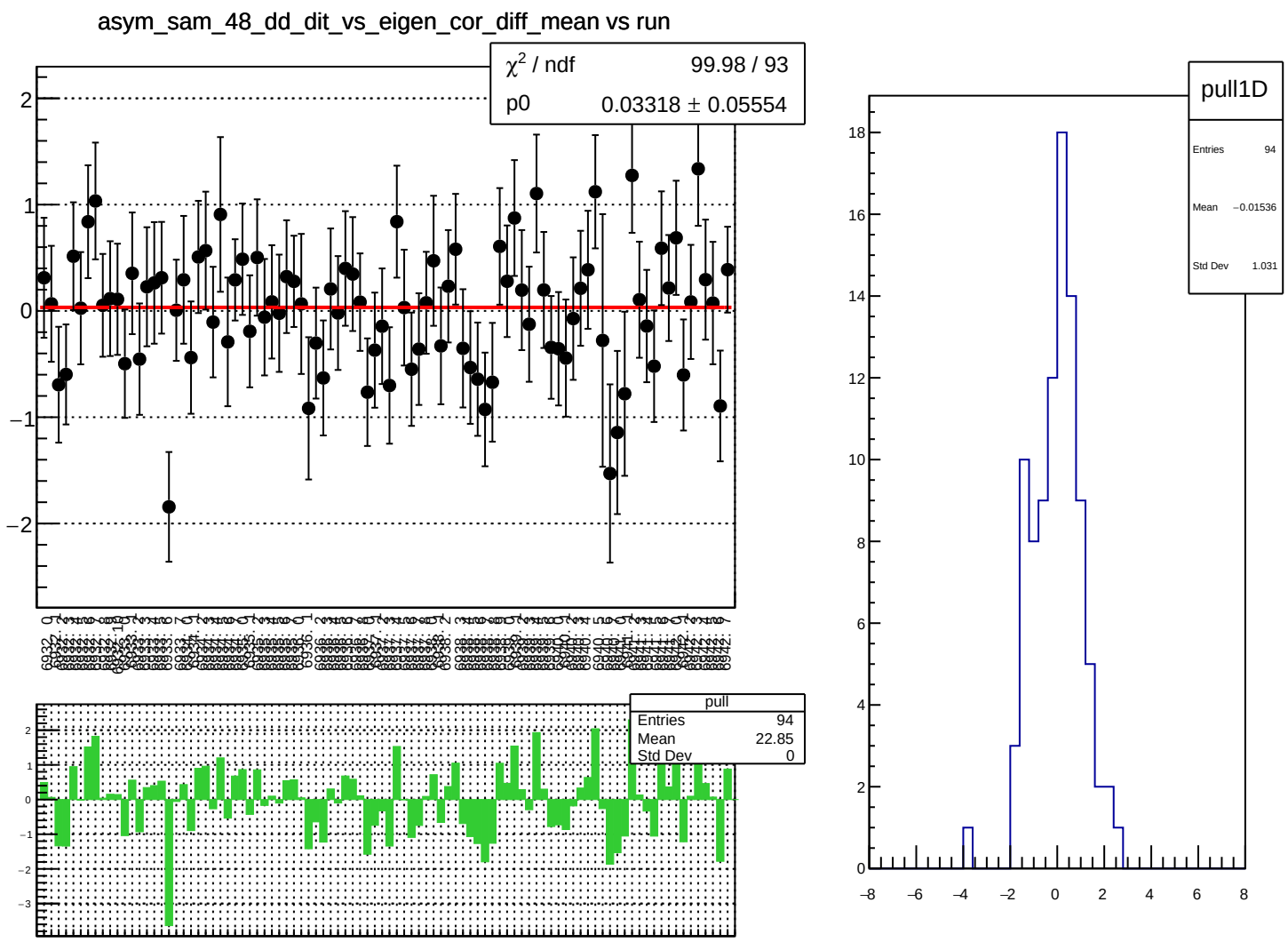

asym_sam_48_dd_rms vs run
χ² / ndf 5494 / 93
p0 1103 ± 0.8315
1300
1250
1200
1150
1100
1050
1000

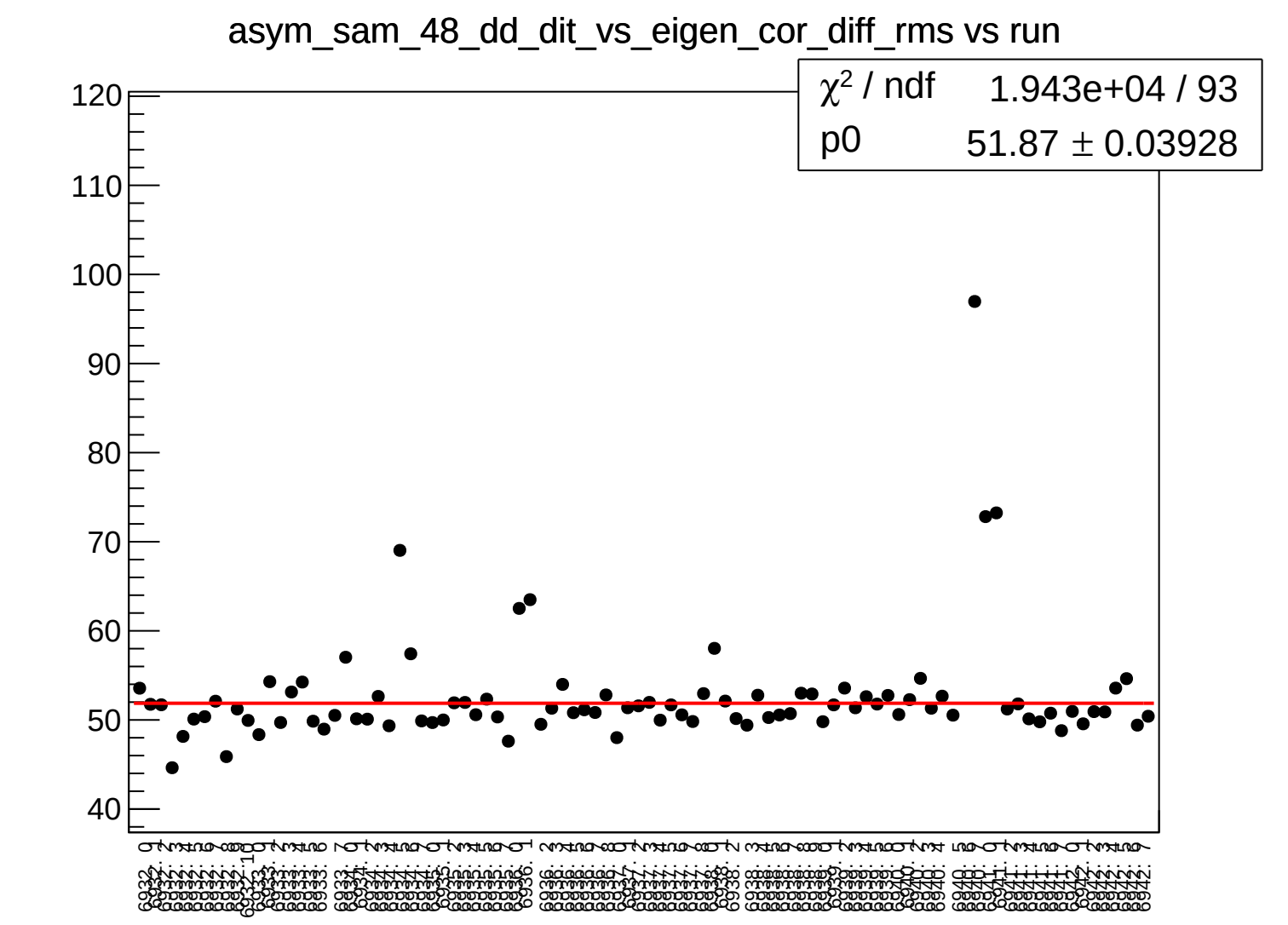

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.12 / 93
p0 −3.057e−14 ± 3.207e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 94
Mean 130.7
Std Dev 0
pull1D
Entries 94
Mean −0.03903
Std Dev 0.9508

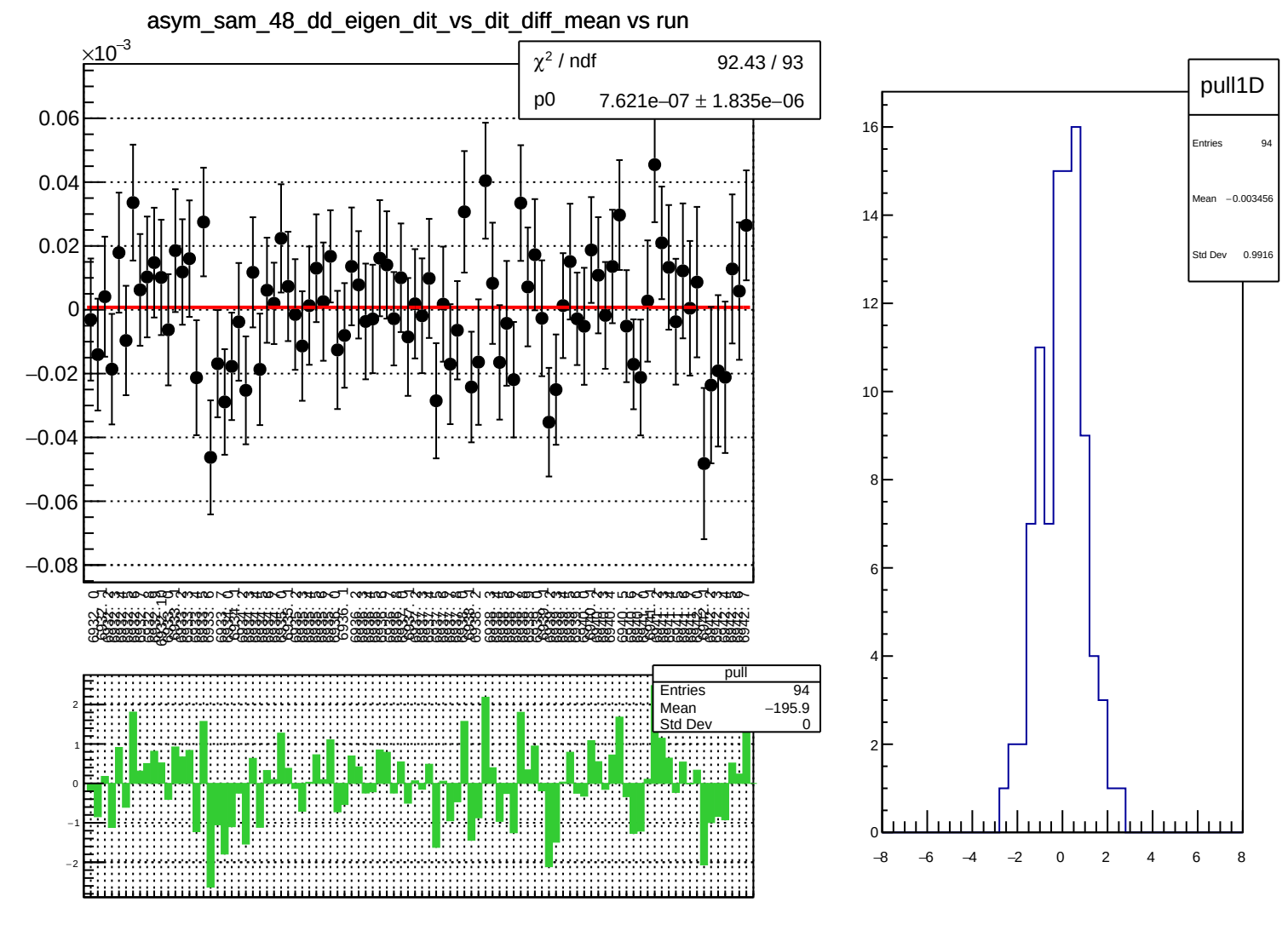

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.252e+06 / 93
p0 1.623e−11 ± 2.268e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

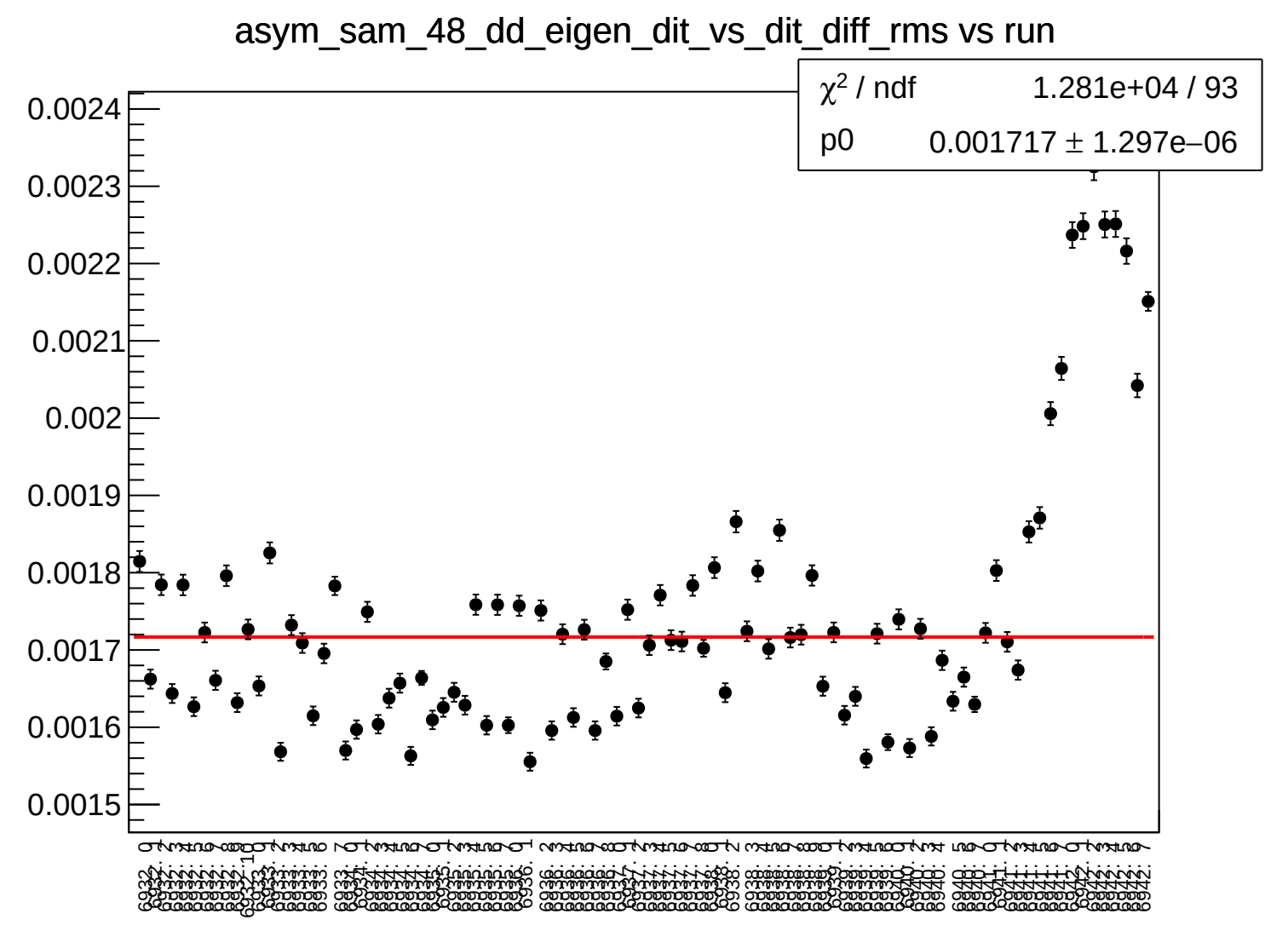

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.98 / 93
p0 0.03318 ± 0.05554
pull
Entries 94
Mean 22.85
Std Dev 0
pull1D
Entries 94
Mean −0.01536
Std Dev 1.031

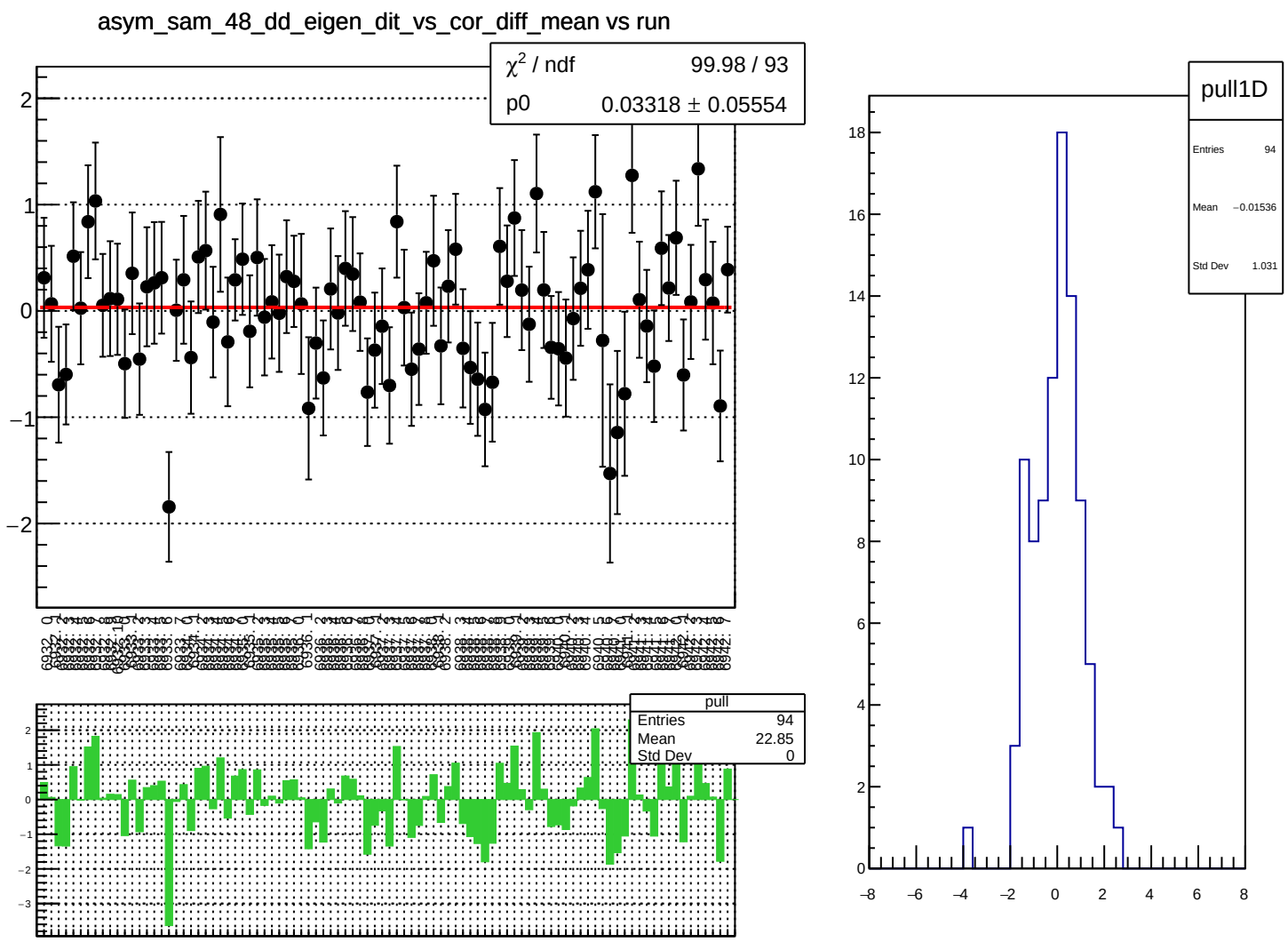

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.943e+04 / 93
p0 51.87 ± 0.03928
120
110
100
90
80
70
60
50
40

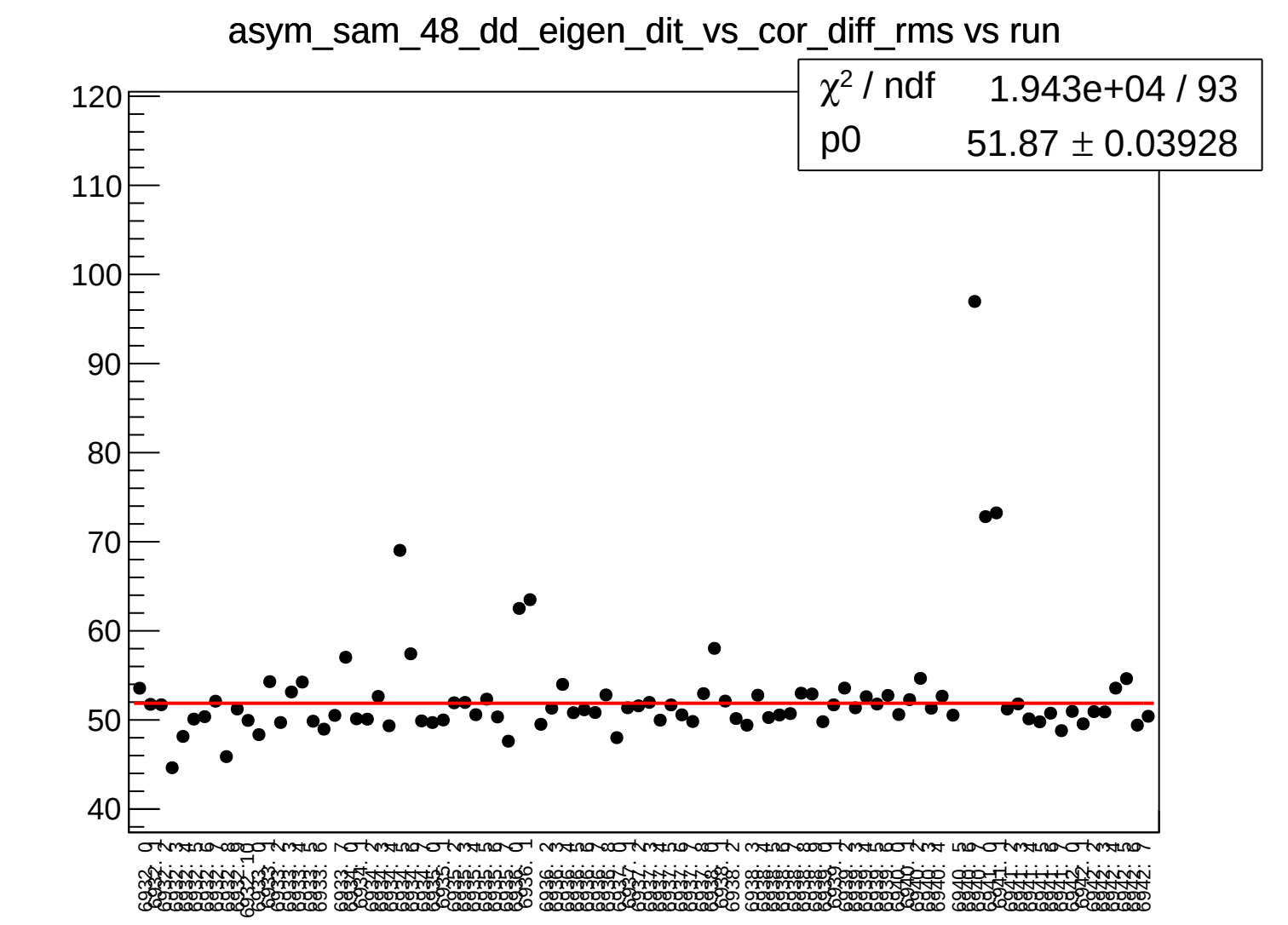

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.98 / 93
p0 0.03318 ± 0.05554
pull
Entries 94
Mean 22.85
Std Dev 0
pull1D
Entries 94
Mean −0.01536
Std Dev 1.031

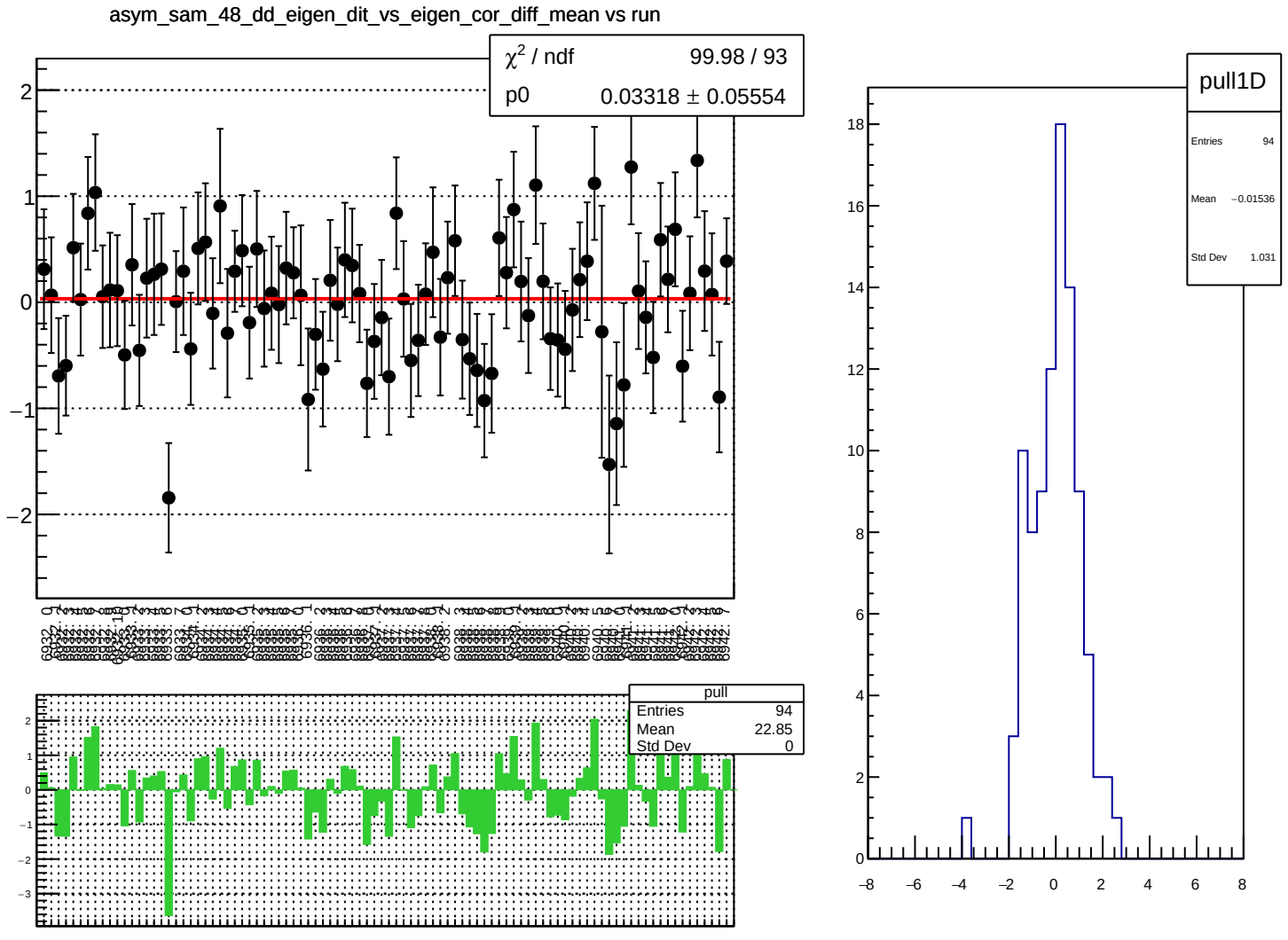

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+04 / 93
p0 51.87 ± 0.03928
120
110
100
90
80
70
60
50
40

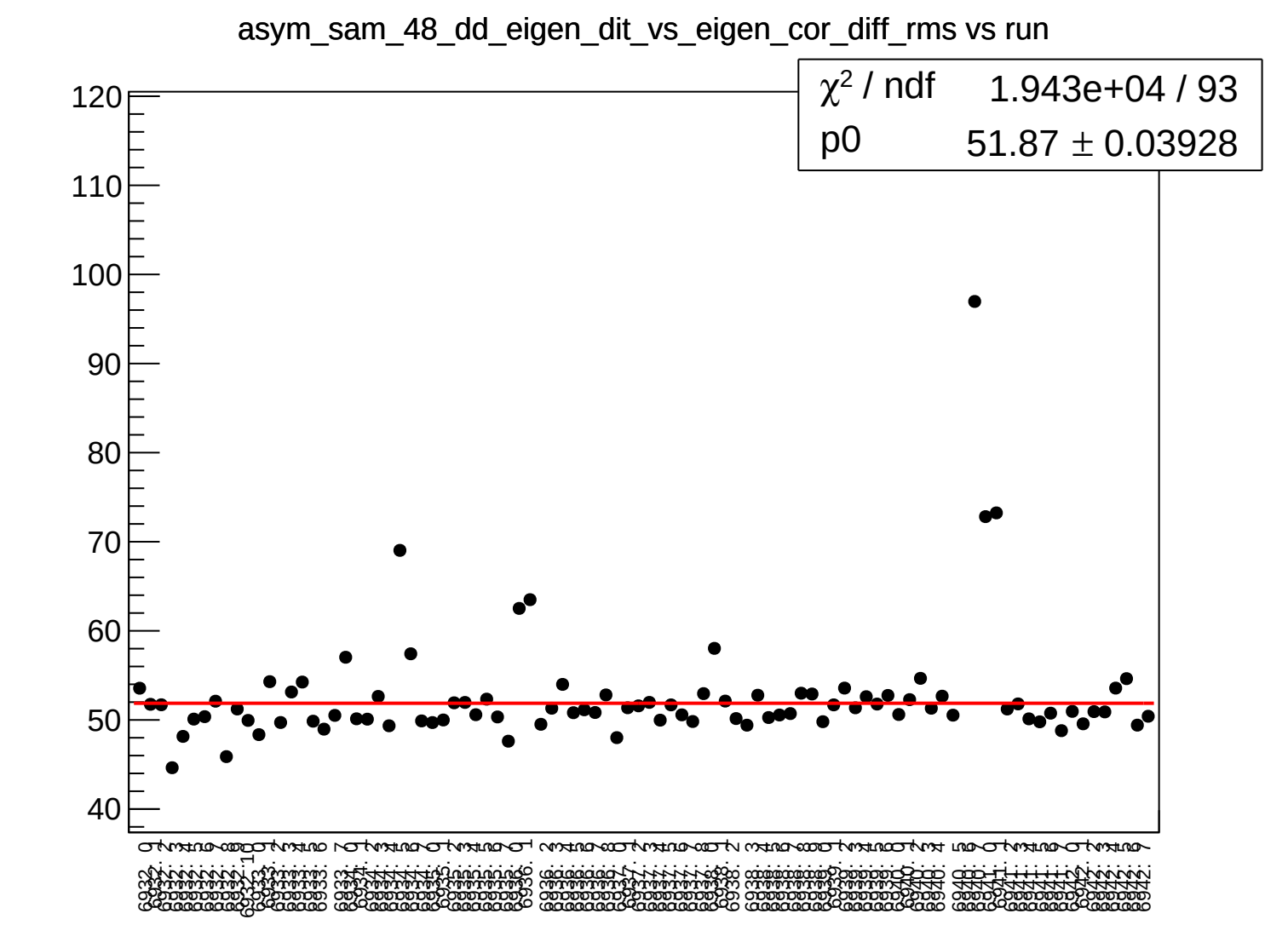

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.43 / 93
p0 7.621e−07 ± 1.835e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean −195.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003456
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

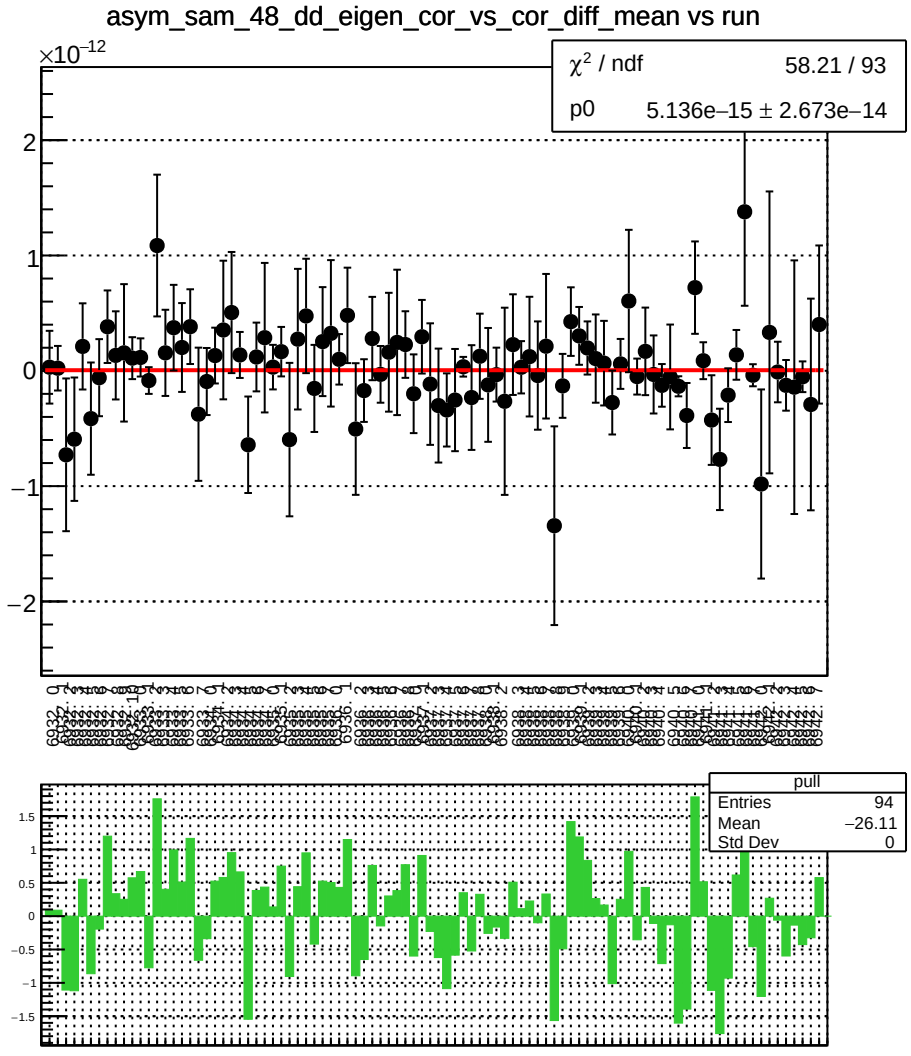

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.281e+04 / 93
p0 0.001717 ± 1.297e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

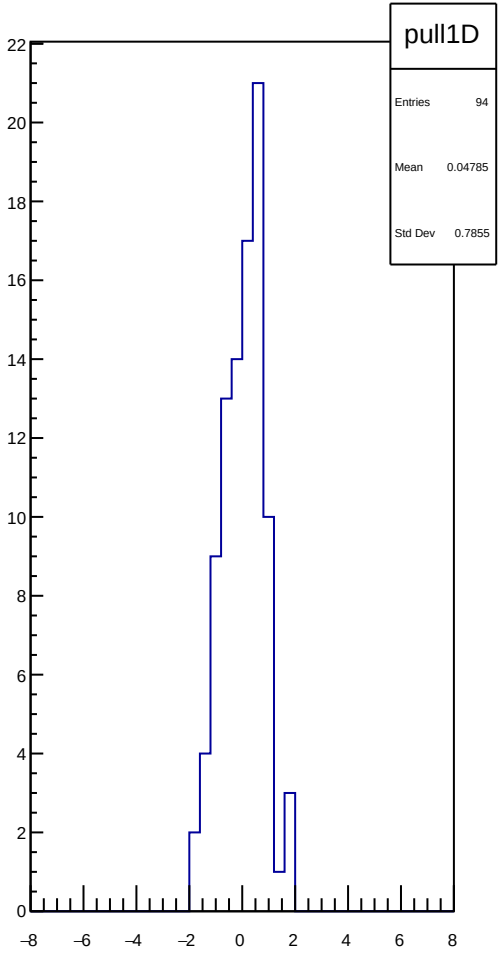

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.98 / 93
p0 0.03318 ± 0.05554
pull
Entries 94
Mean 22.85
Std Dev 0
pull1D
Entries 94
Mean −0.01536
Std Dev 1.031

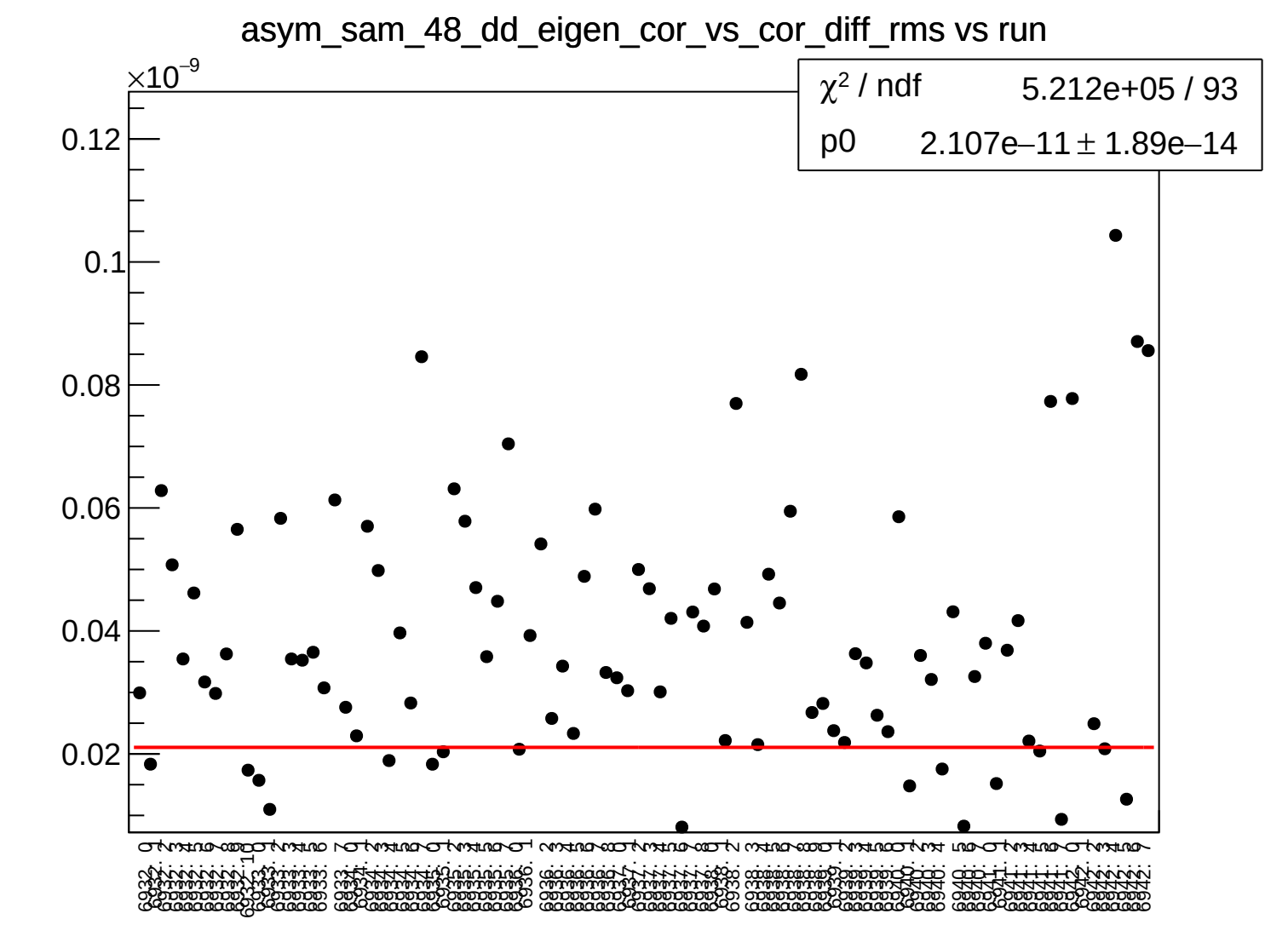

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.943e+04 / 93
p0 51.87 ± 0.03928
120
110
100
90
80
70
60
50
40

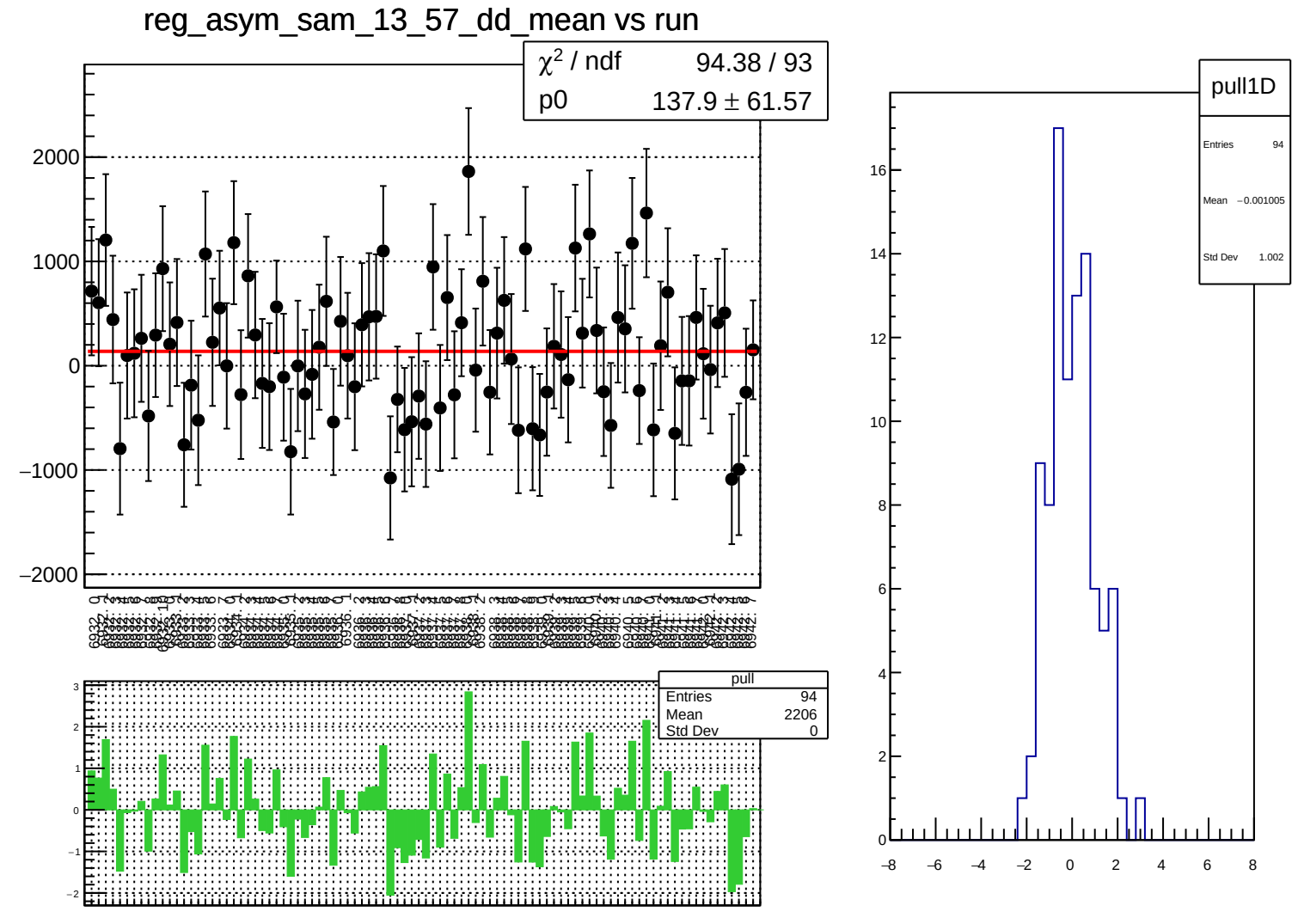

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.98 / 93
p0 0.03318 ± 0.05554
pull
Entries 94
Mean 22.85
Std Dev 0
pull1D
Entries 94
Mean −0.01536
Std Dev 1.031

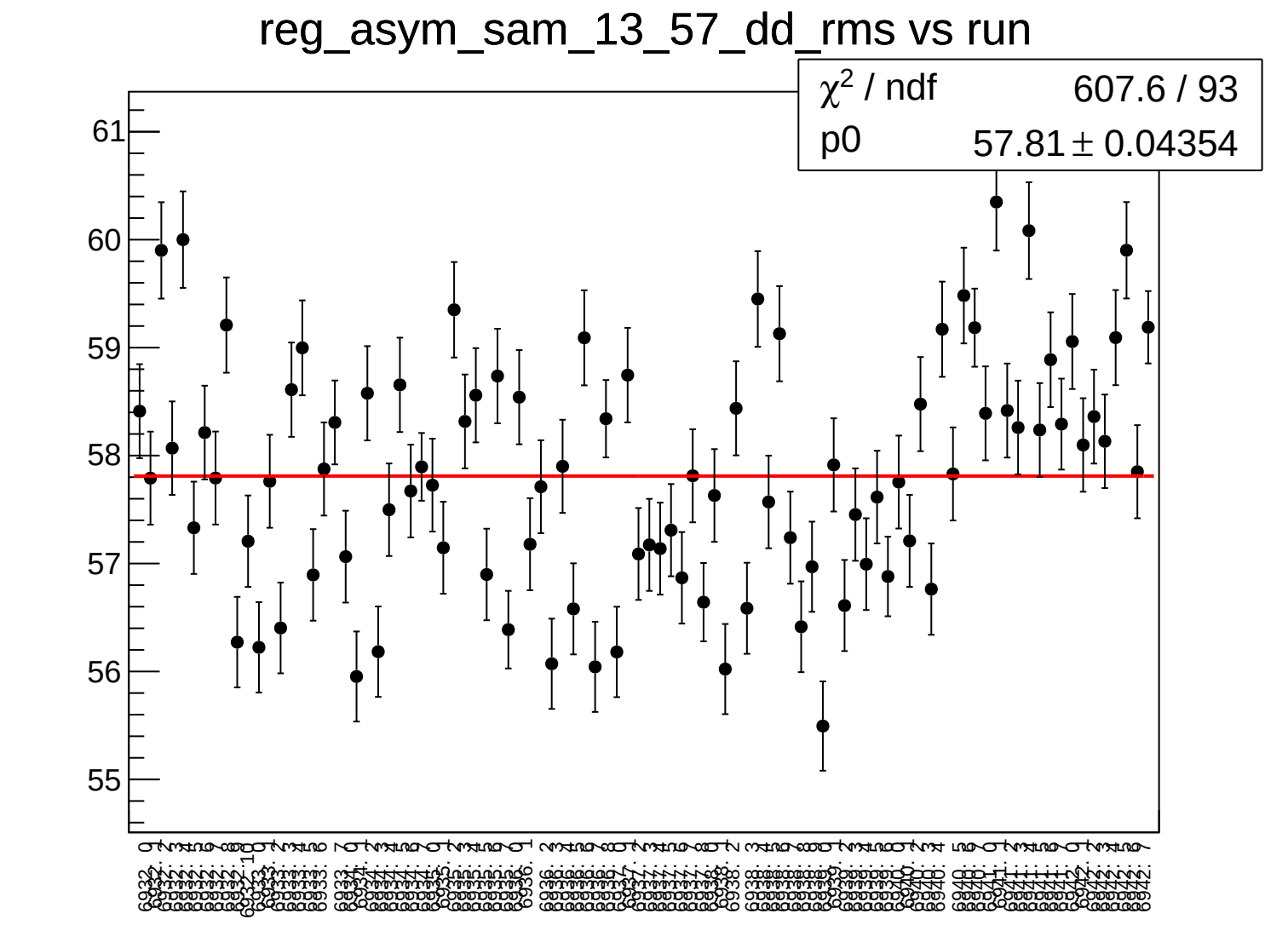

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+04 / 93
p0 51.87 ± 0.03928
120
110
100
90
80
70
60
50
40

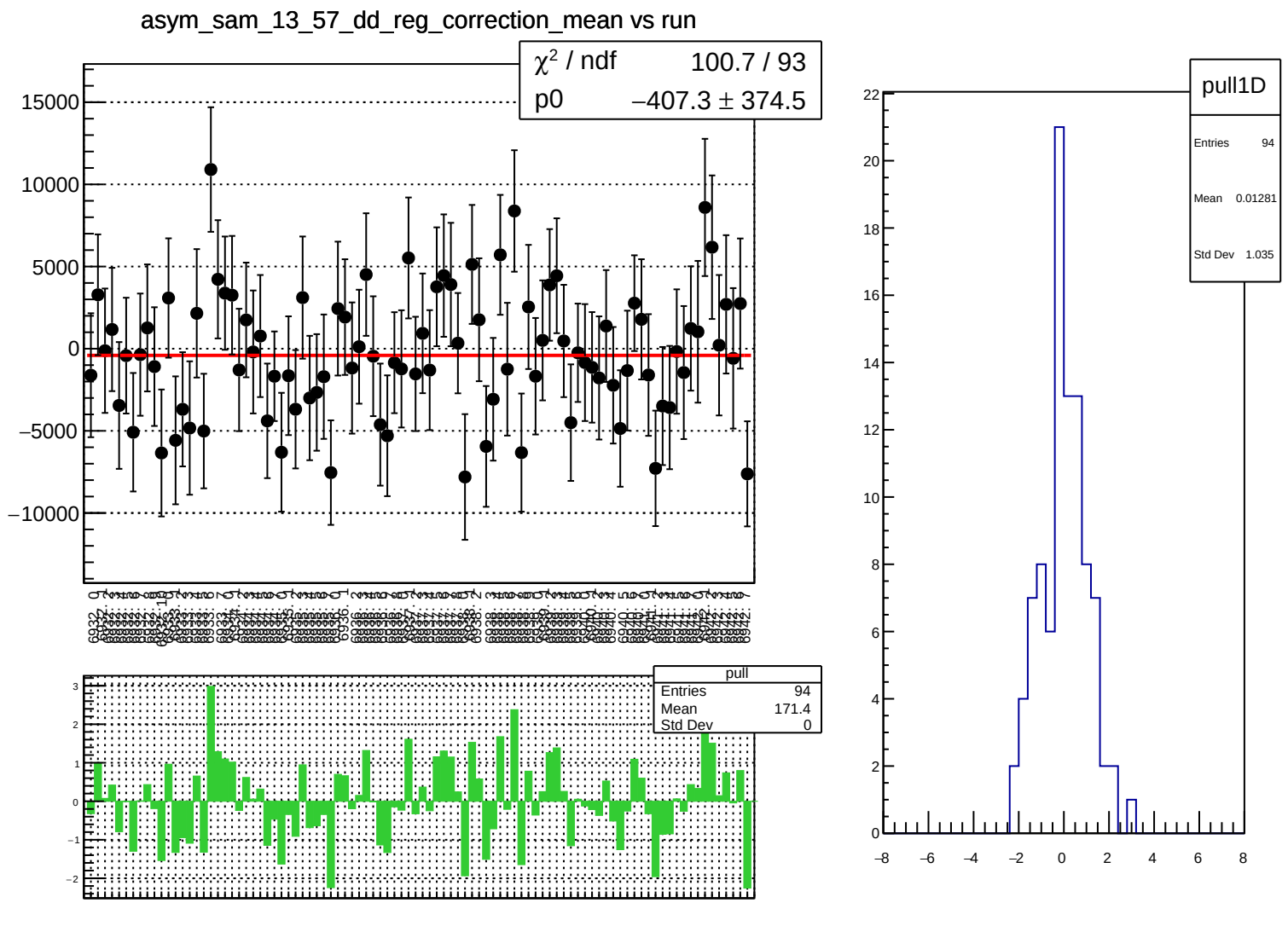

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 58.21 / 93
p0 5.136e−15 ± 2.673e−14
pull
Entries 94
Mean −26.11
Std Dev 0


pull1D
Entries 94
Mean 0.04785
Std Dev 0.7855


asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.212e+05 / 93
p0 2.107e−11 ± 1.89e−14
0.12
0.1
0.08
0.06
0.04
0.02


reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.38 / 93
p0 137.9 ± 61.57
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2206
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001005
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 607.6 / 93
p0 57.81 ± 0.04354
61
60
59
58
57
56
55


asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 100.7 / 93
p0 −407.3 ± 374.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01281
Std Dev 1.035
22
20
18
16
14
12
10
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6
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2
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−4
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2
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6
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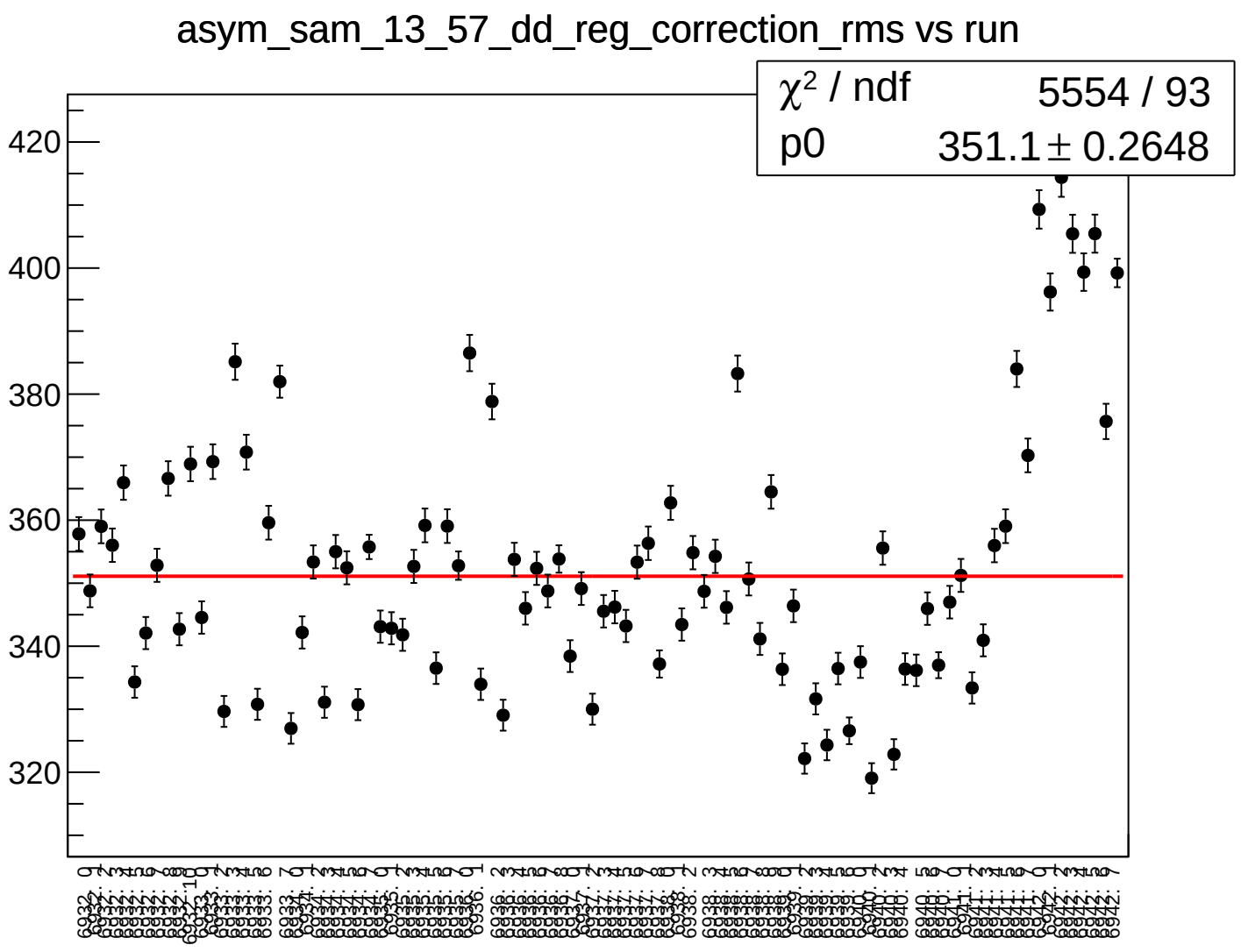
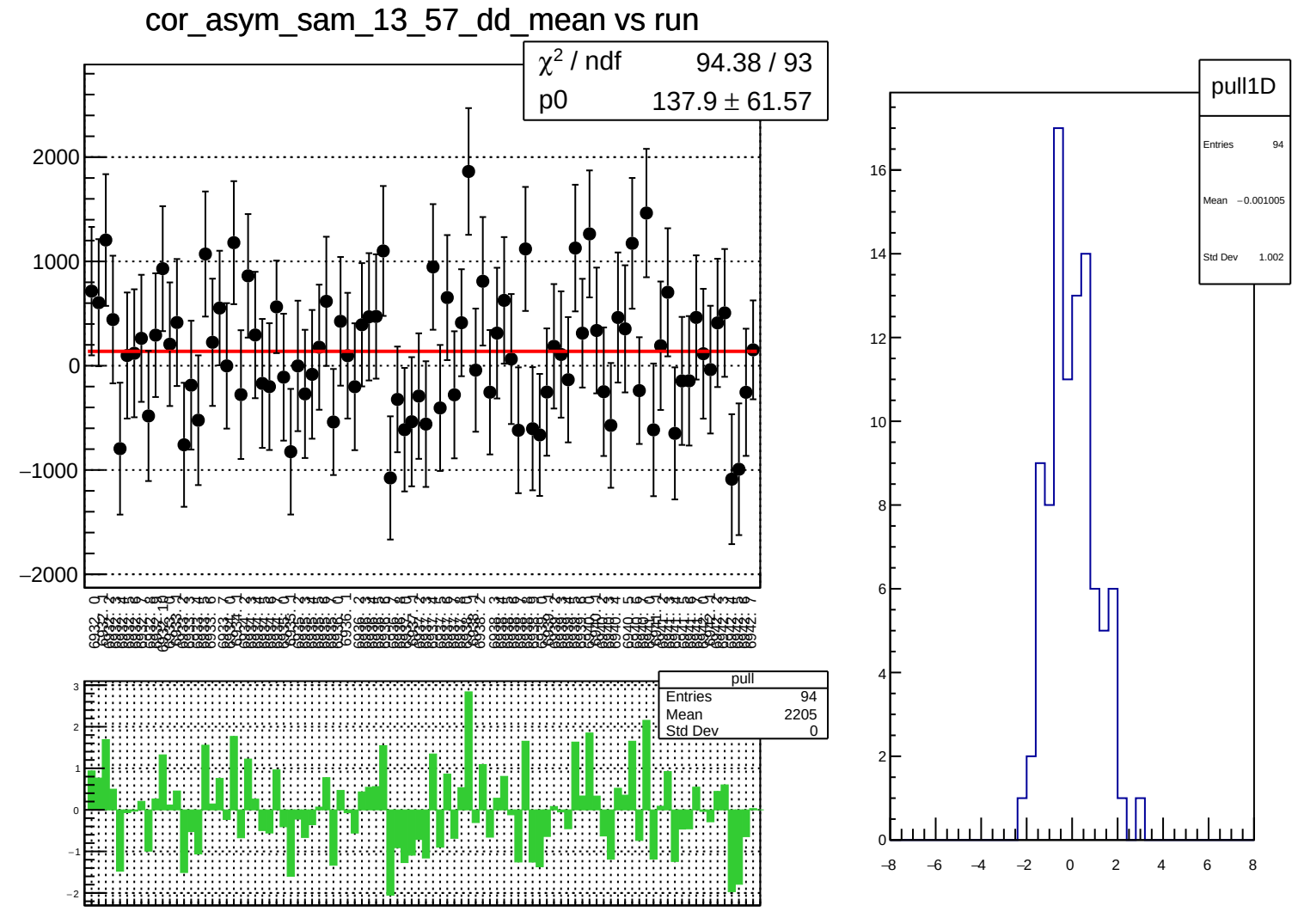

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 5554 / 93
p0 351.1 ± 0.2648
420
400
380
360
340
320


cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.38 / 93
p0 137.9 ± 61.57
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2205
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001005
Std Dev 1.002
16
14
12
10
8
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−6
−4
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2
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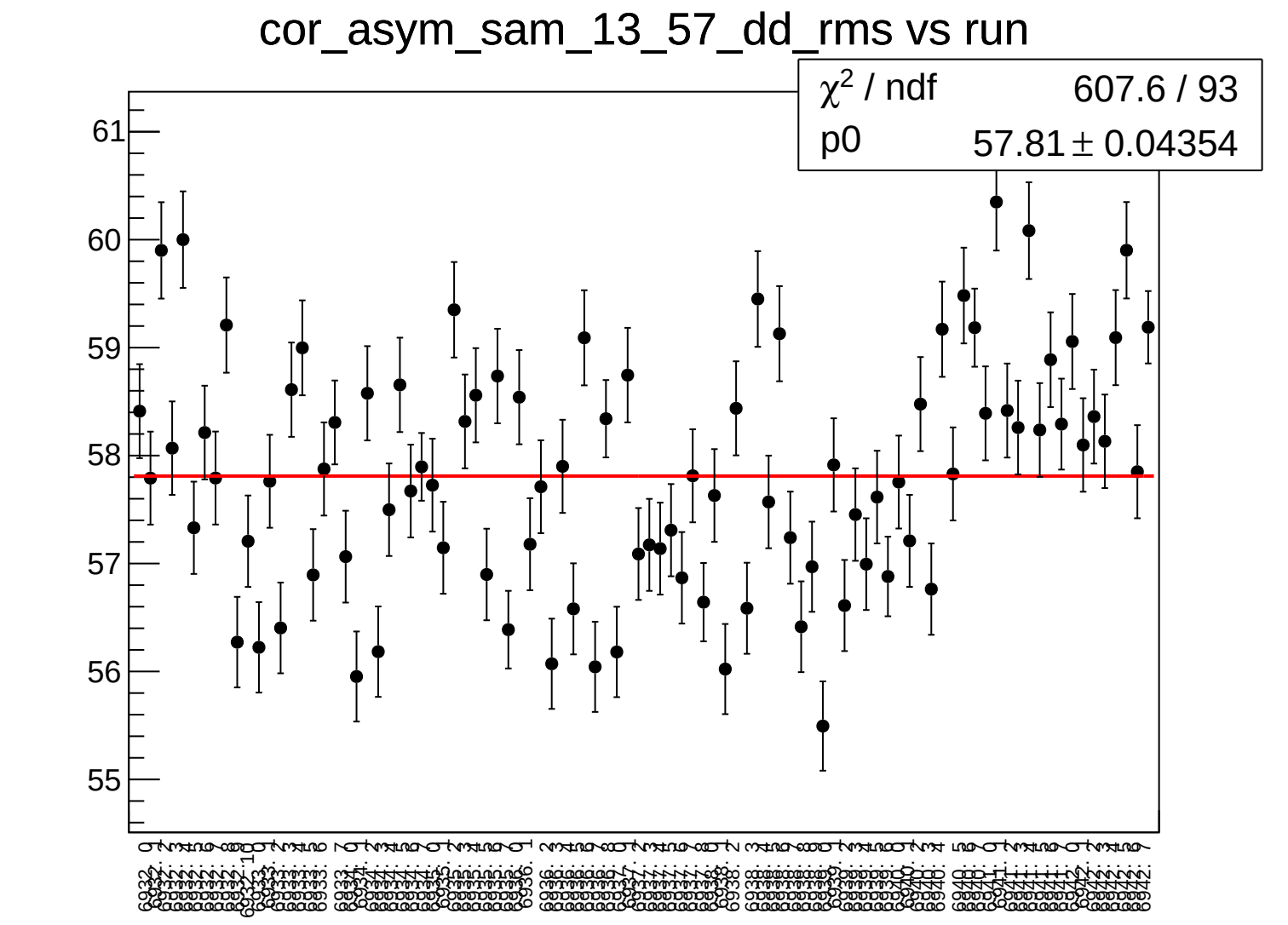
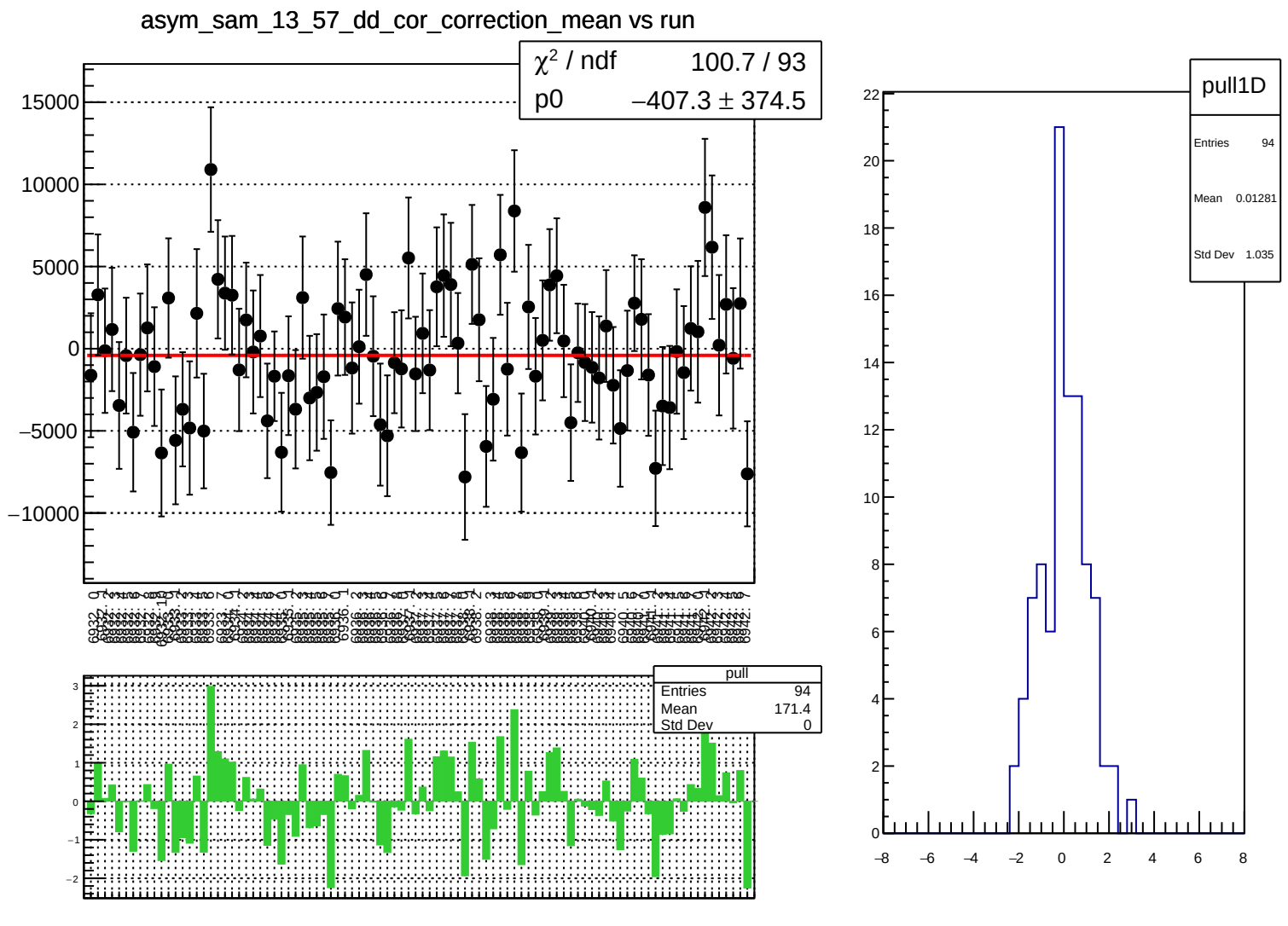
6
8


cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 607.6 / 93
p0 57.81 ± 0.04354
61
60
59
58
57
56
55


asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 100.7 / 93
p0 −407.3 ± 374.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01281
Std Dev 1.035
22
20
18
16
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2
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−8
−6
−4
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2
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6
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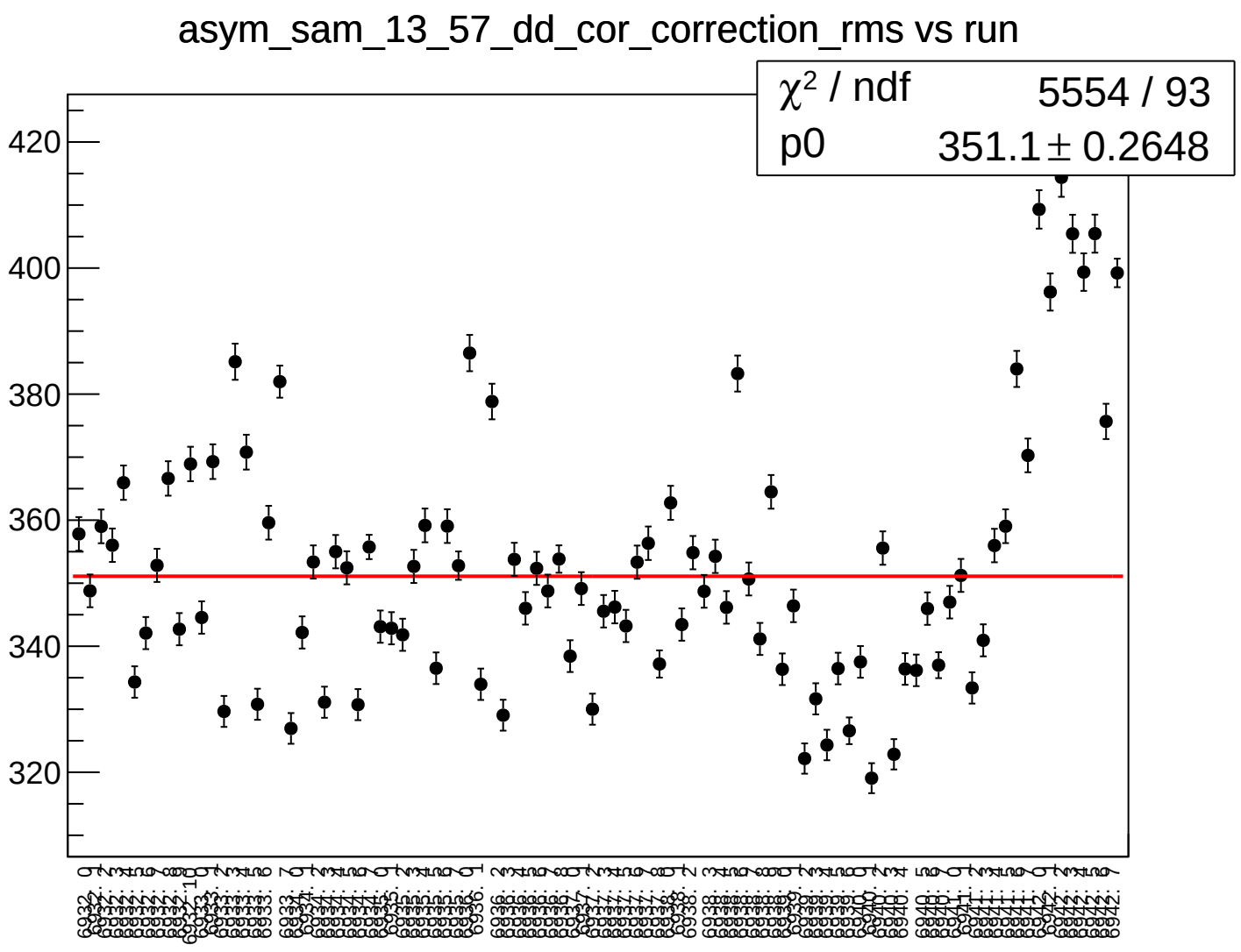
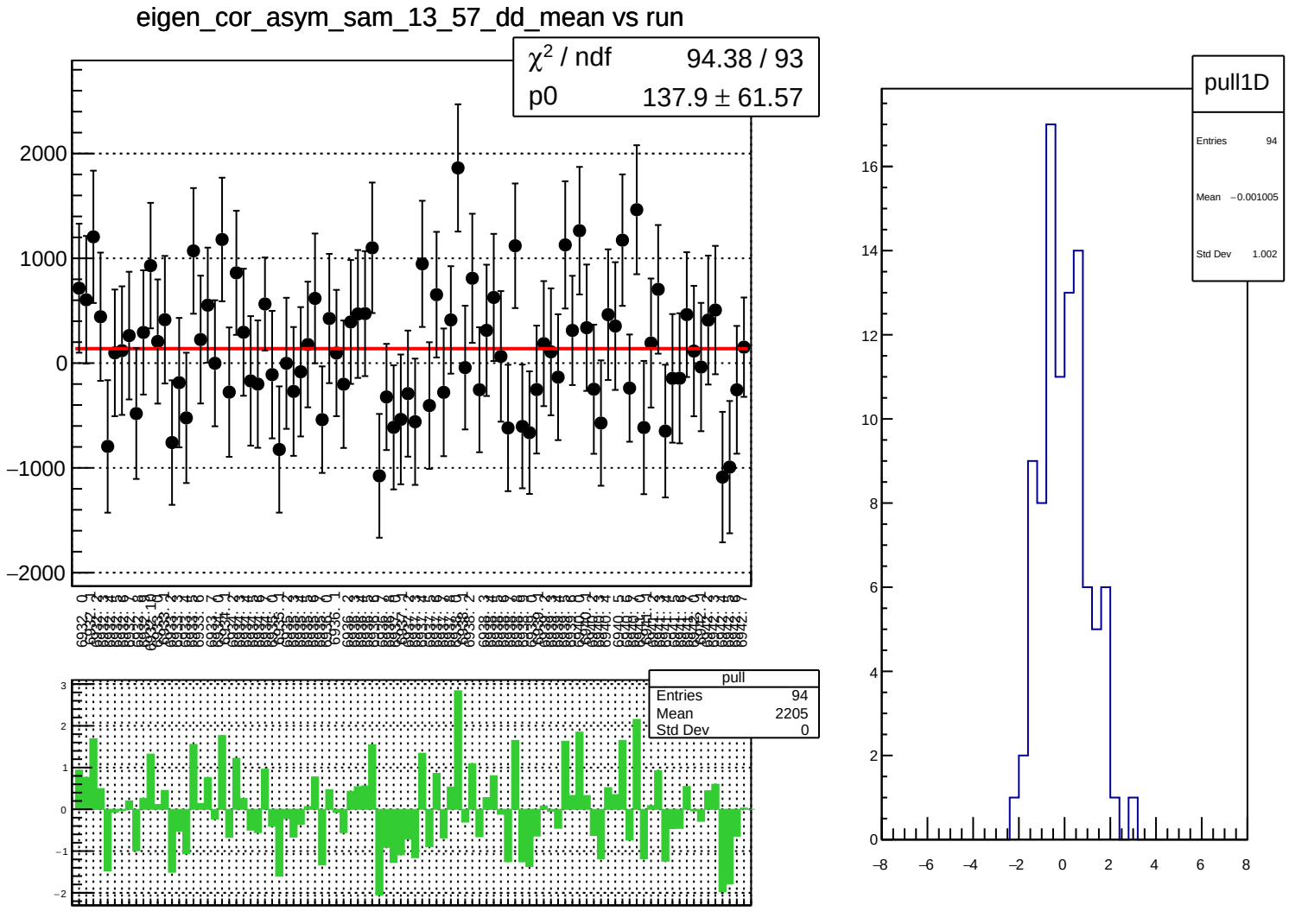

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 5554 / 93
p0 351.1 ± 0.2648
420
400
380
360
340
320


eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 94.38 / 93
p0 137.9 ± 61.57
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 2205
Std Dev 0
pull1D
Entries 94
Mean −0.001005
Std Dev 1.002
16
14
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10
8
6
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2
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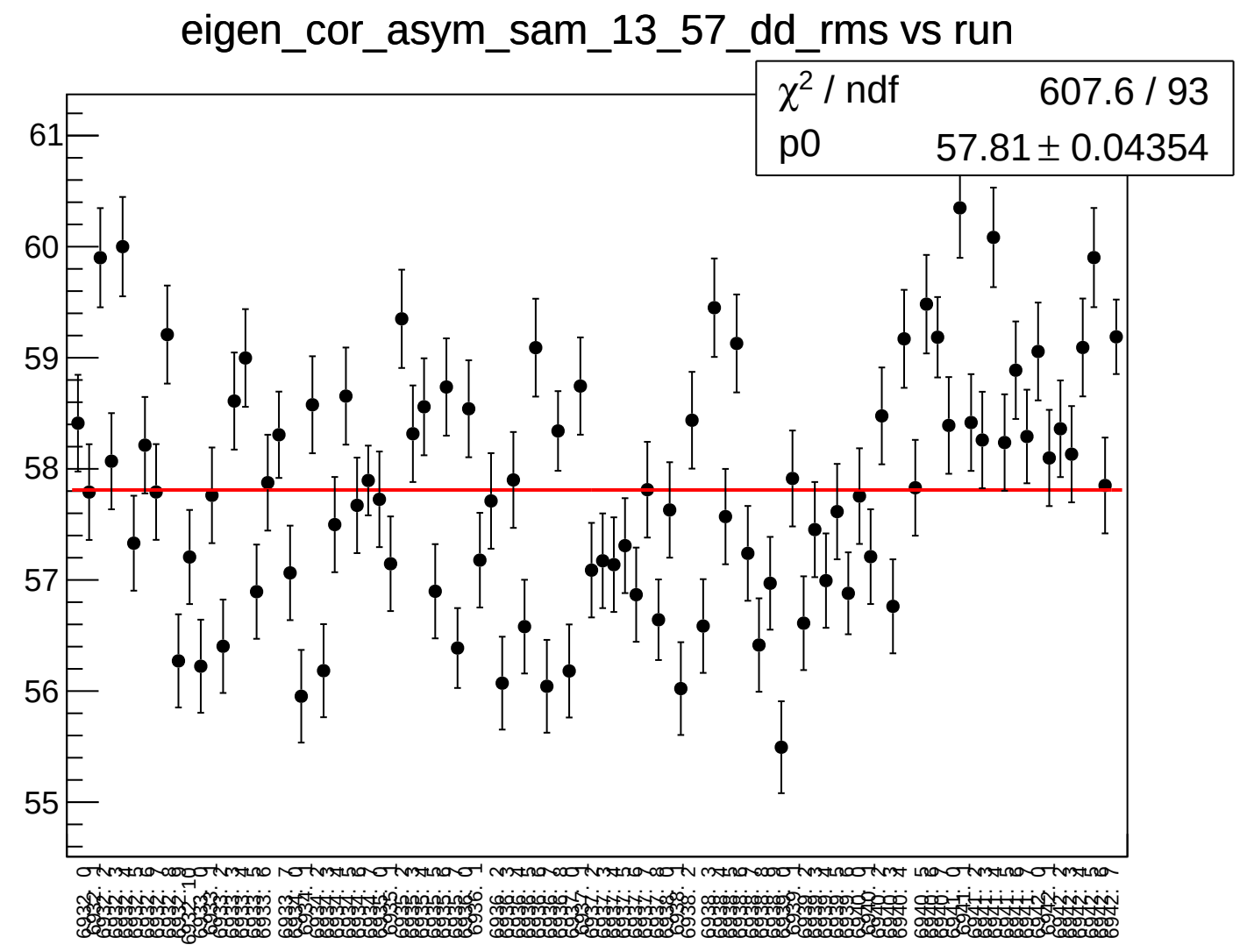
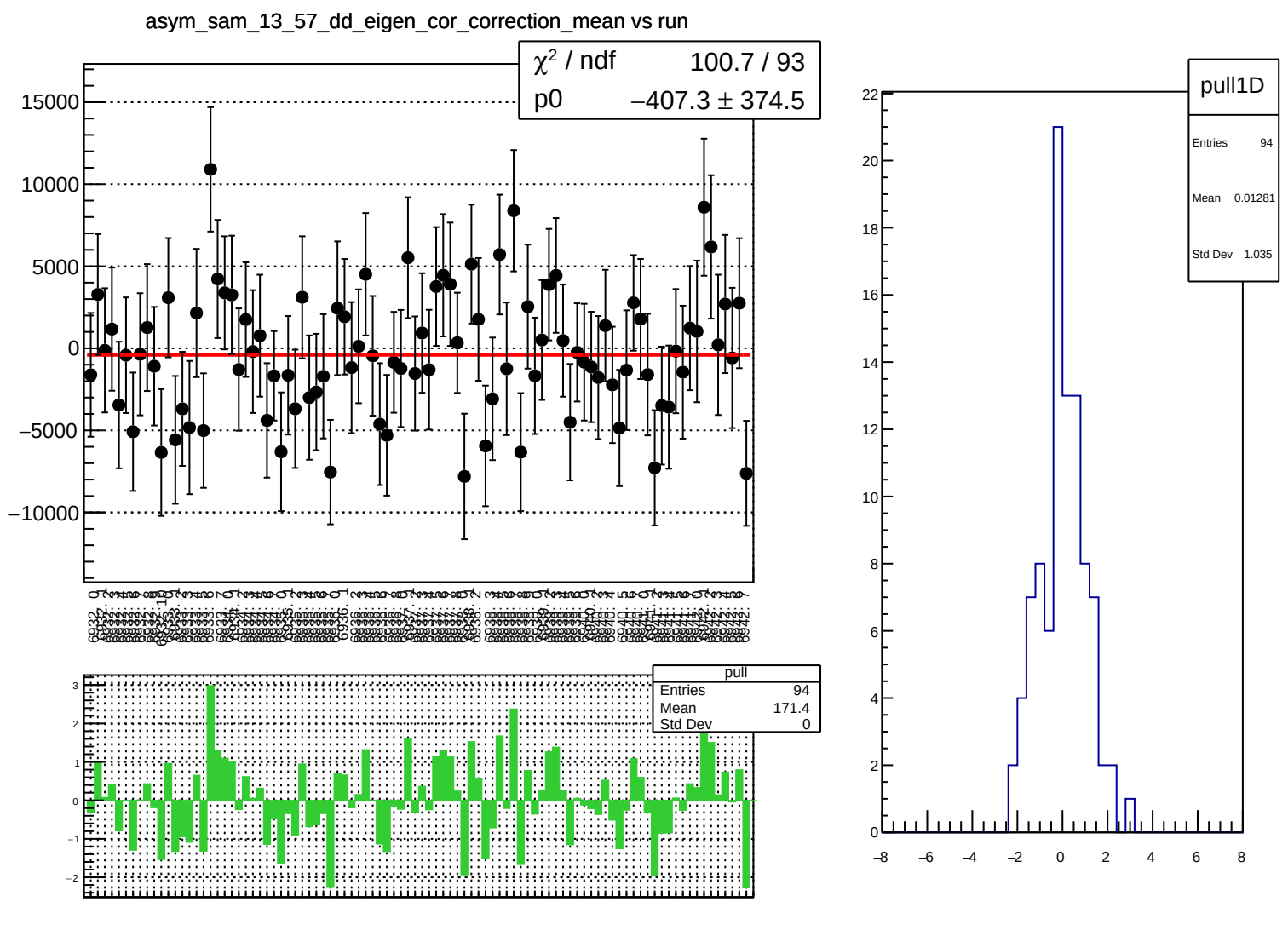
−4
−2
0
2
4
6
8


eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 607.6 / 93
p0 57.81 ± 0.04354
61
60
59
58
57
56
55


asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 100.7 / 93
p0 −407.3 ± 374.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 171.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01281
Std Dev 1.035
22
20
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2
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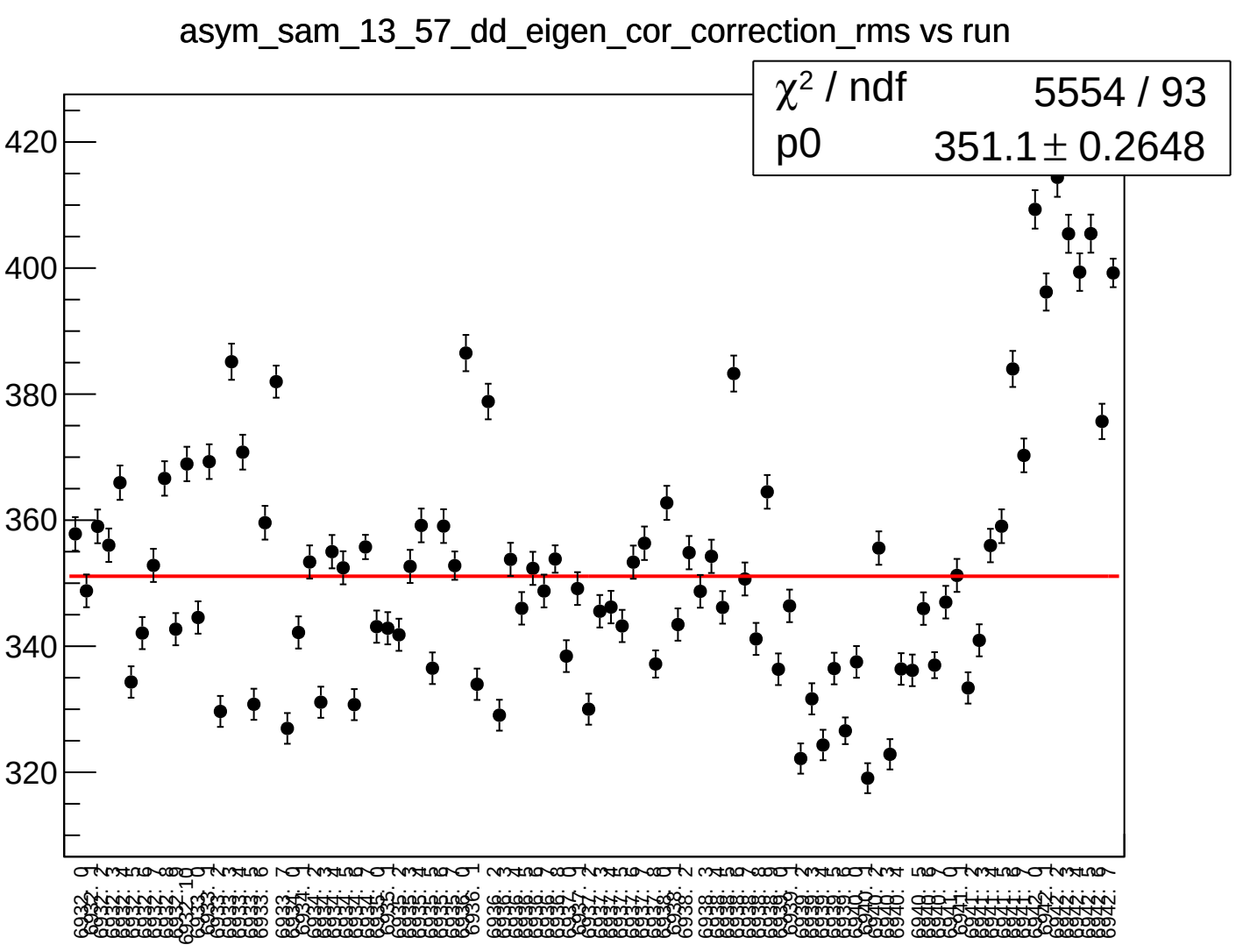
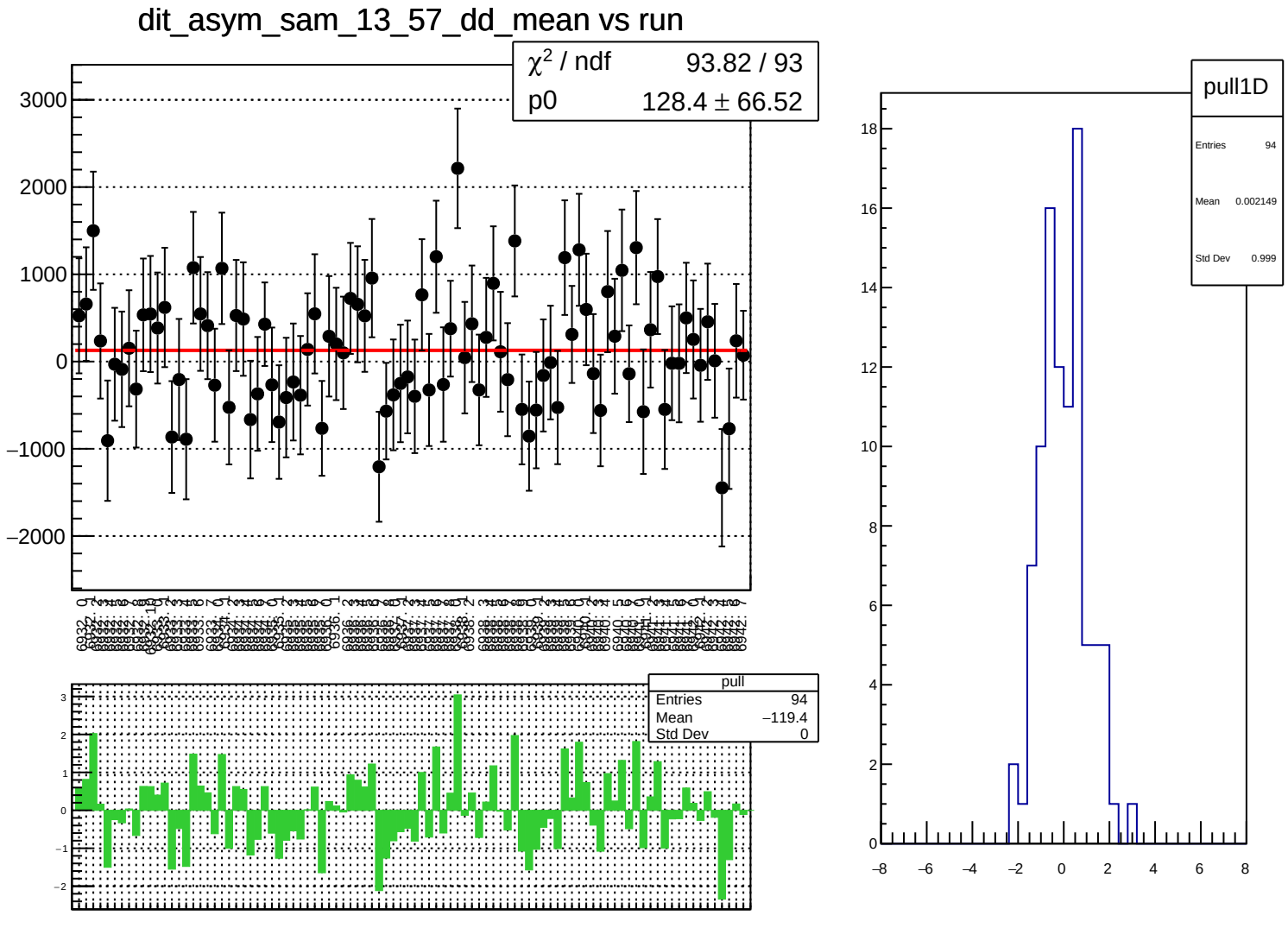
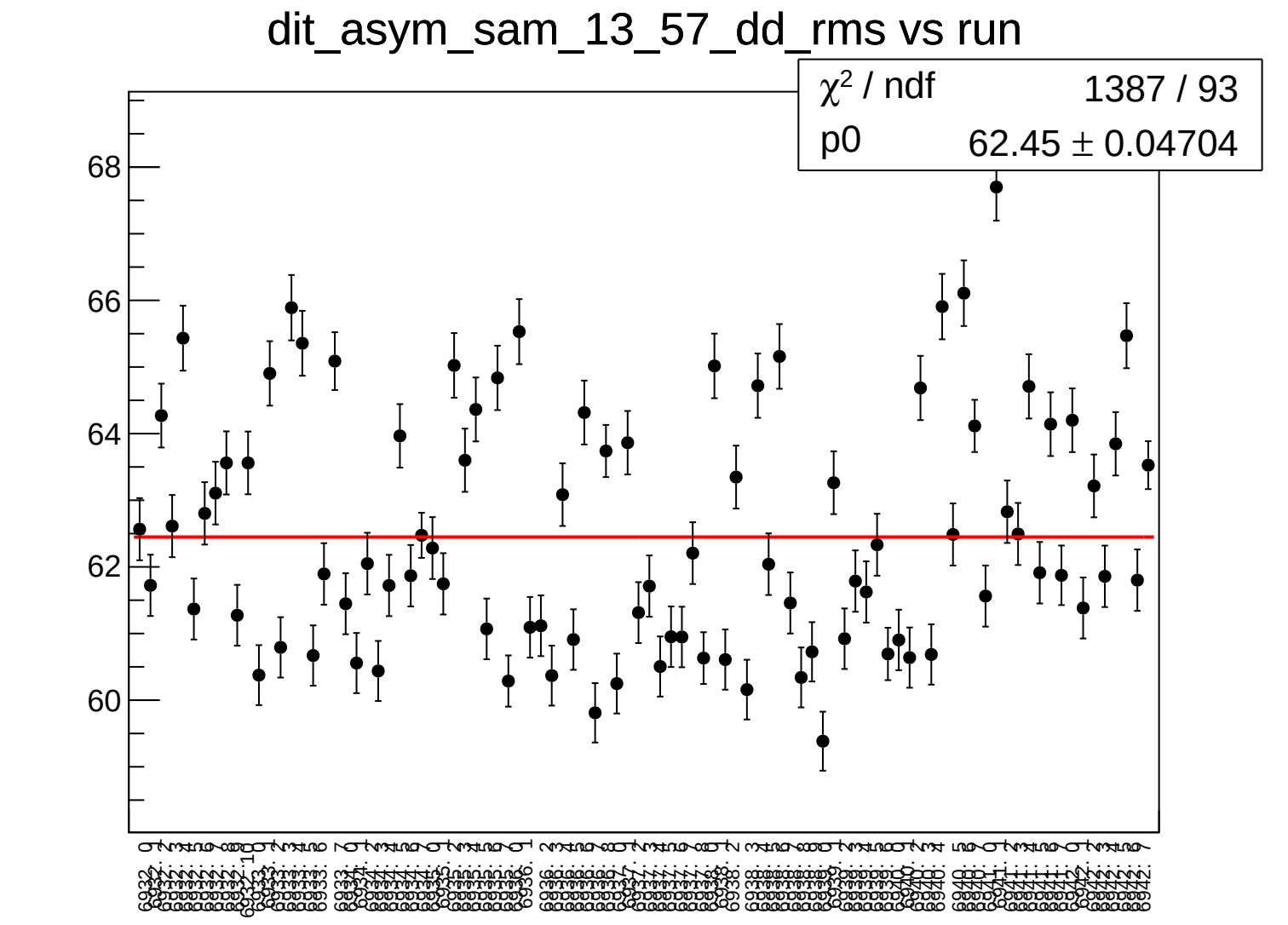
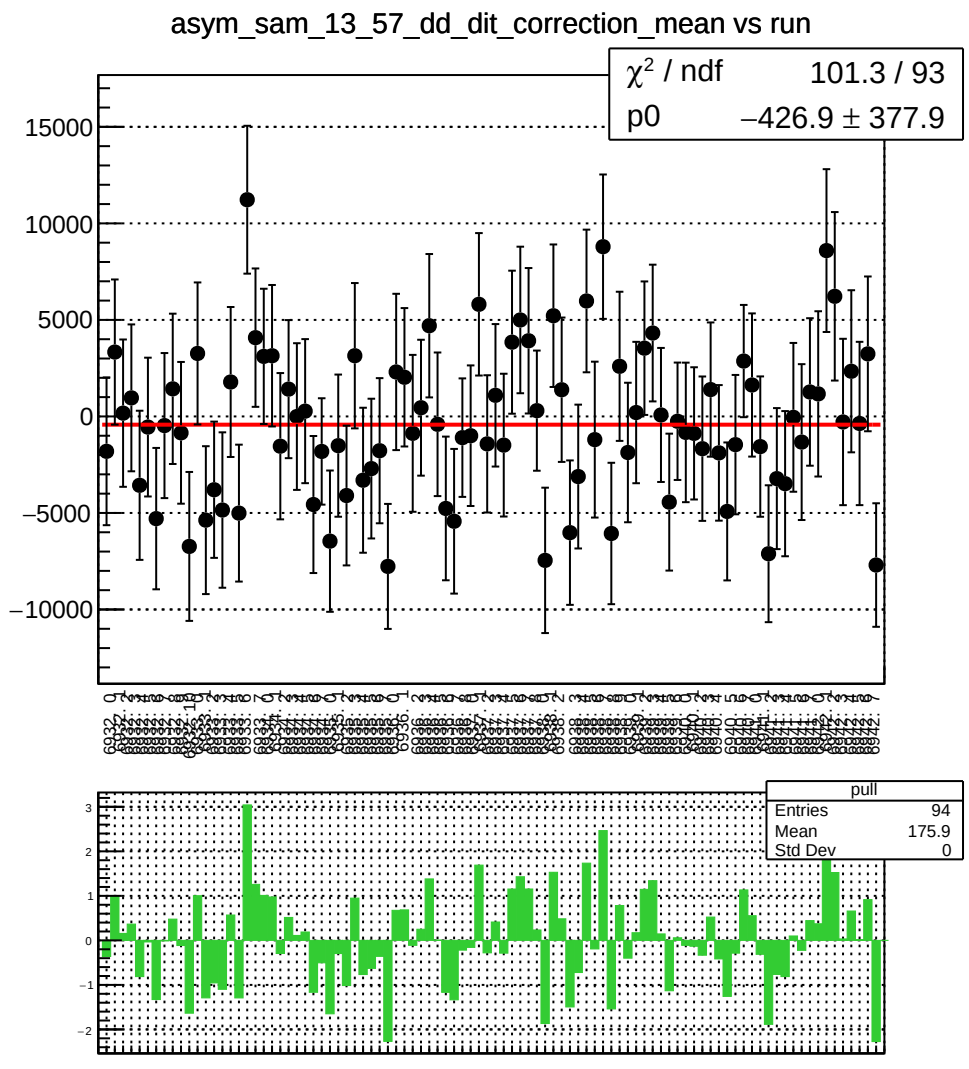
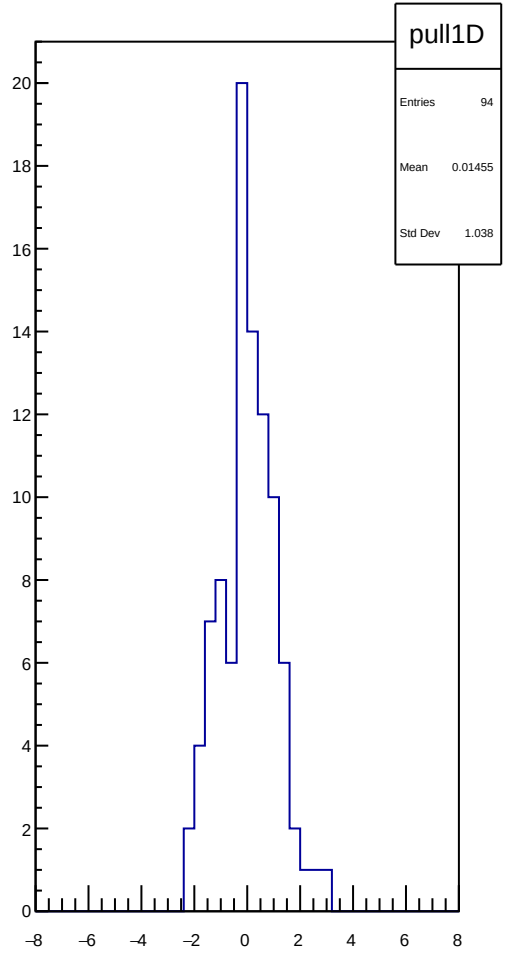
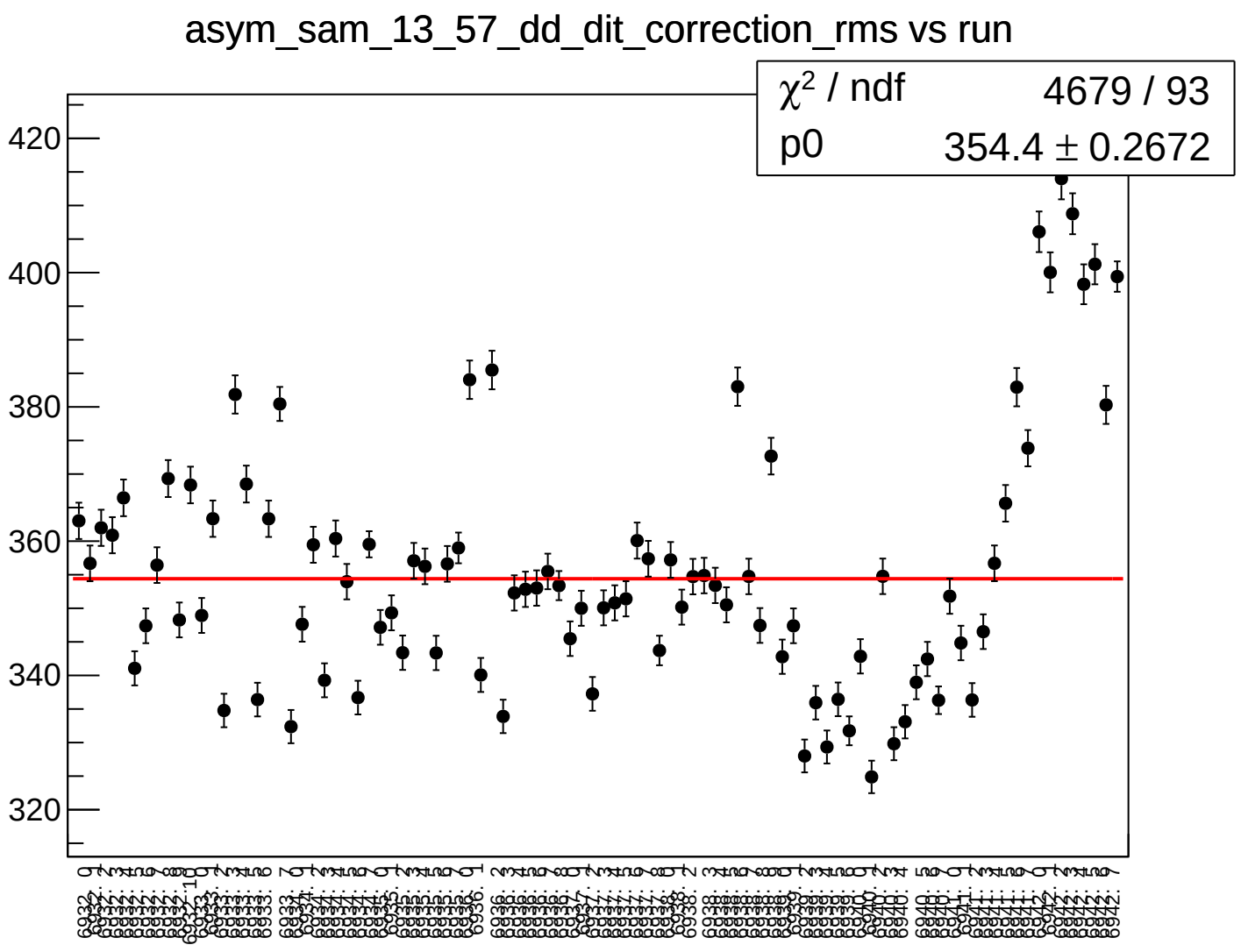

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 5554 / 93
p0 351.1 ± 0.2648
420
400
380
360
340
320

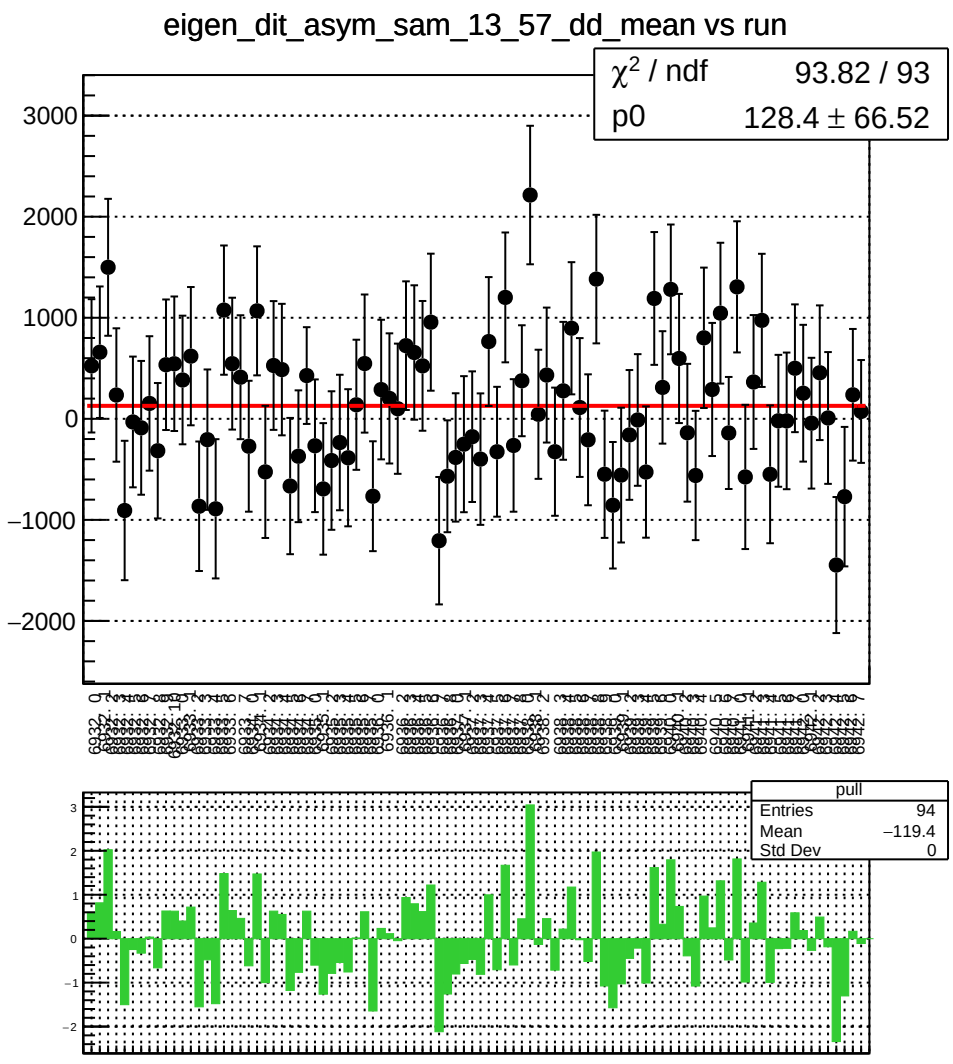

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.82 / 93
p0 128.4 ± 66.52
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −119.4
Std Dev 0
pull1D
Entries 94
Mean 0.002149
Std Dev 0.999

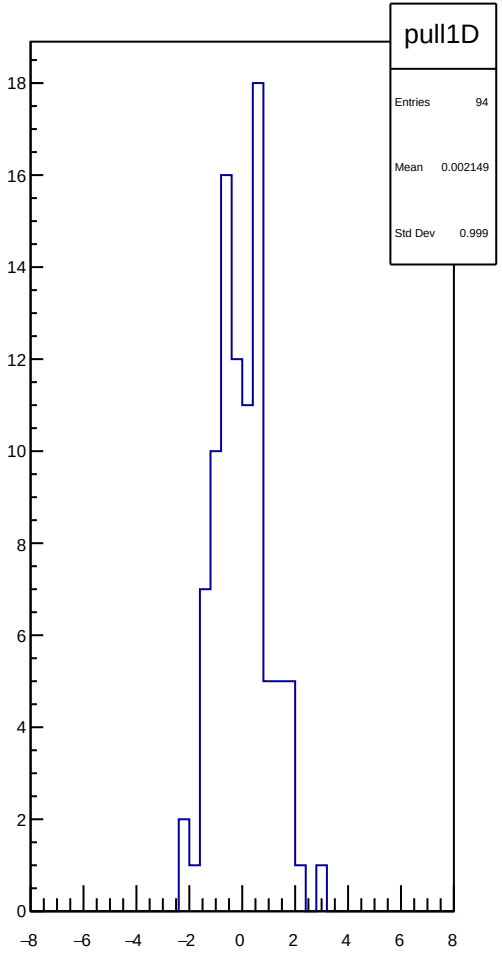

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1387 / 93
p0 62.45 ± 0.04704
68
66
64
62
60


asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 101.3 / 93
p0 −426.9 ± 377.9
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 175.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.01455
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 4679 / 93
p0 354.4 ± 0.2672
420
400
380
360
340
320


eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 93.82 / 93
p0 128.4 ± 66.52
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −119.4
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.002149
Std Dev 0.999
18
16
14
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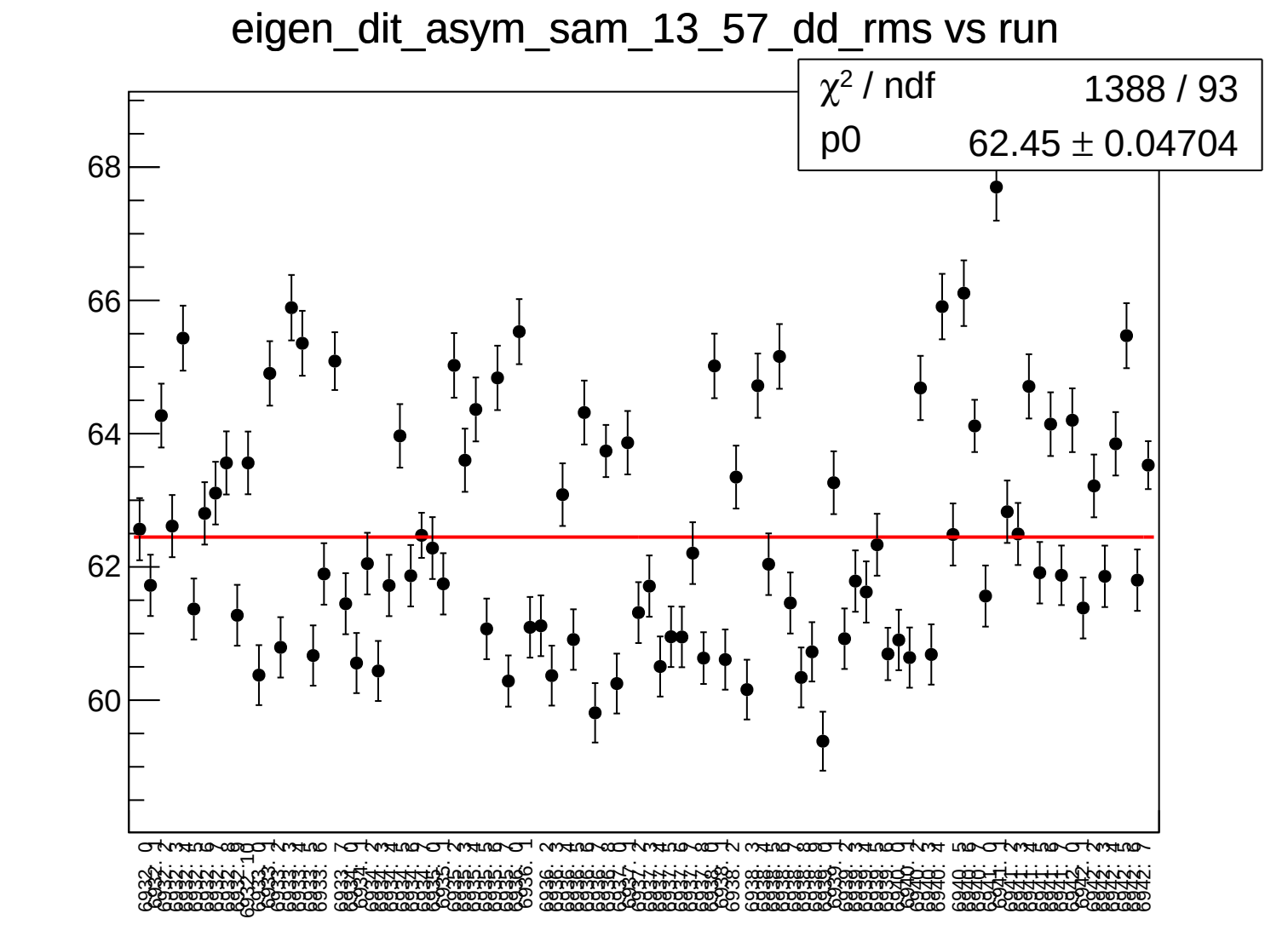
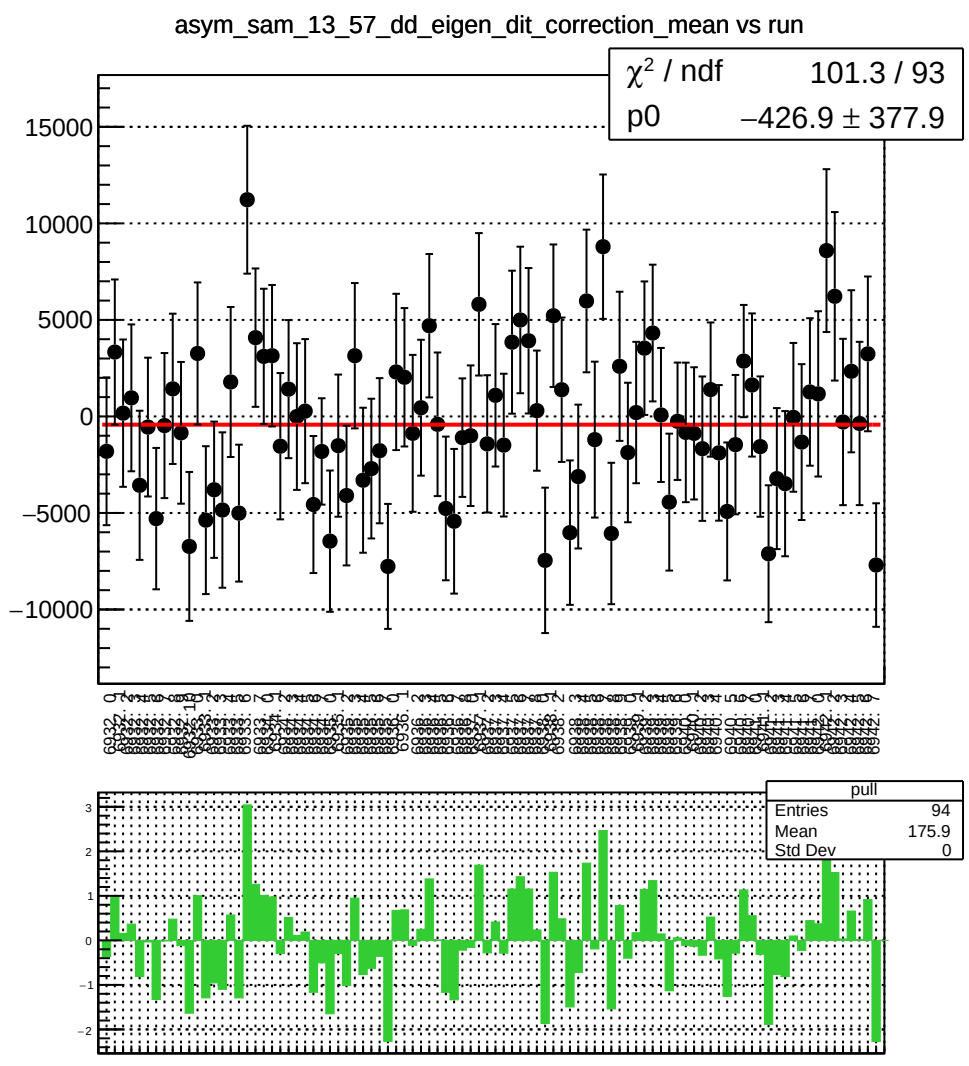
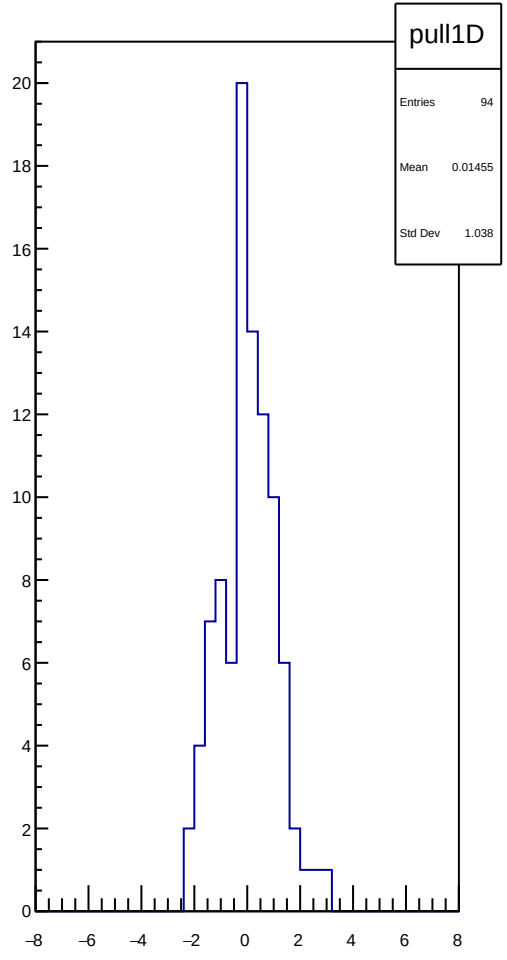
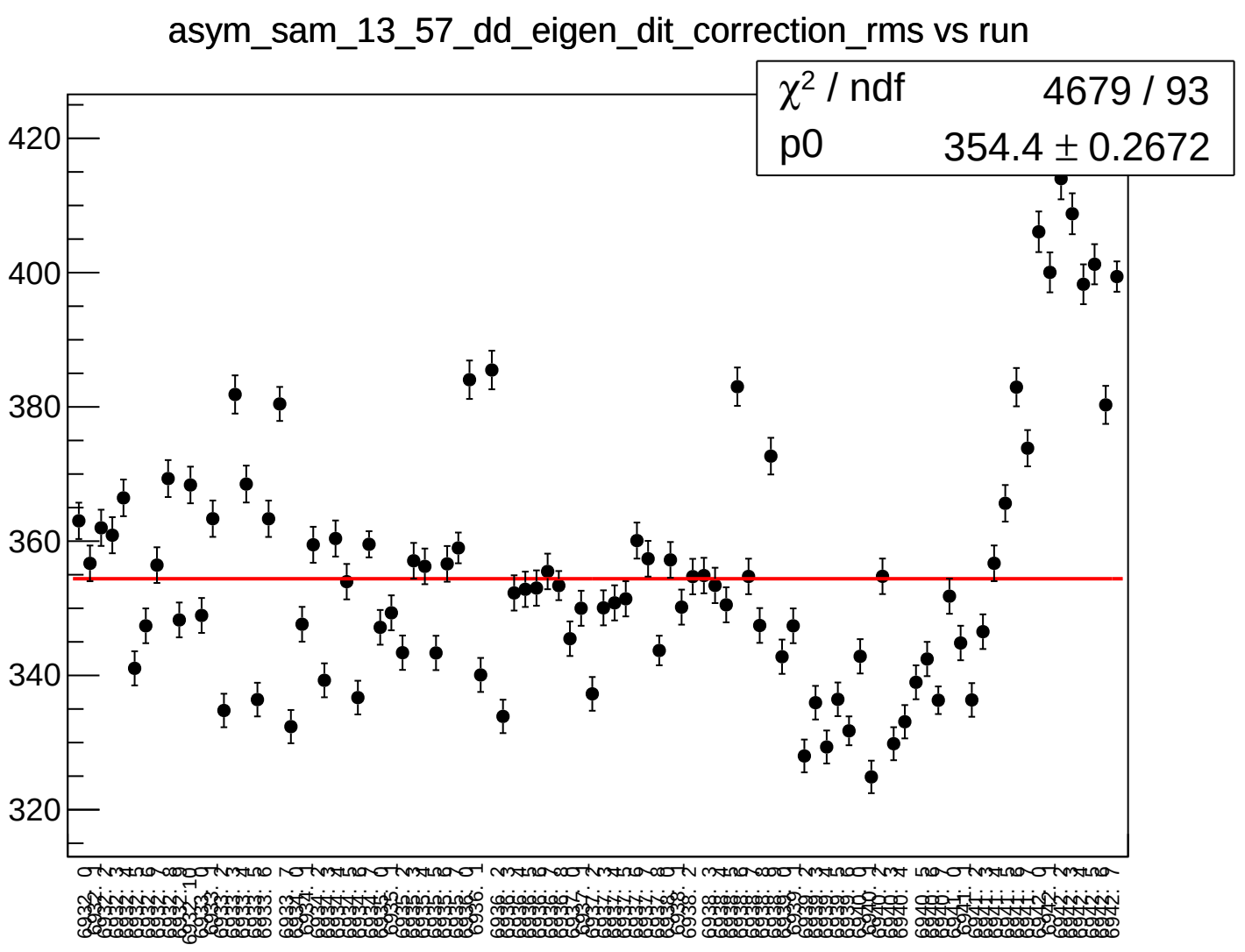
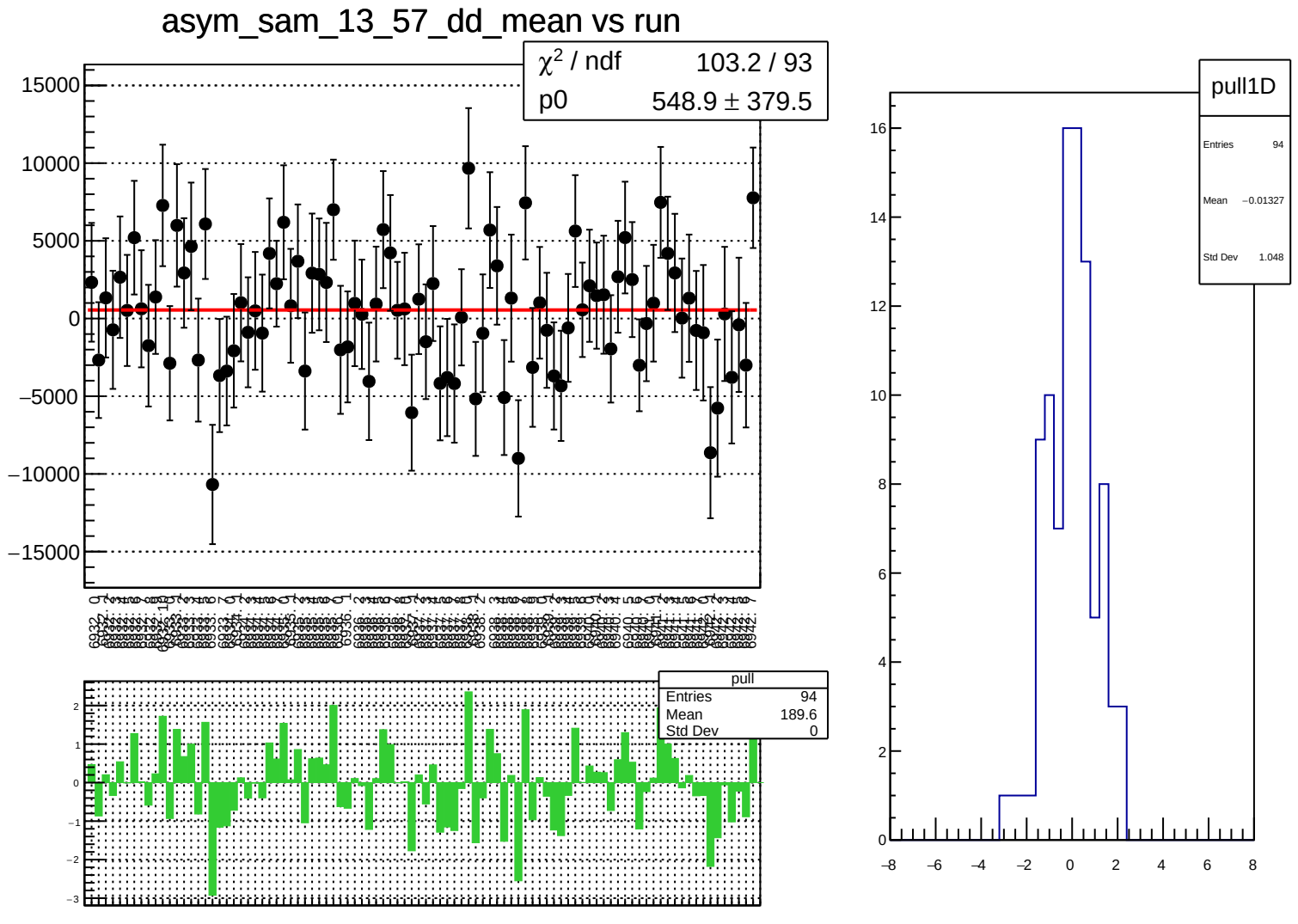
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

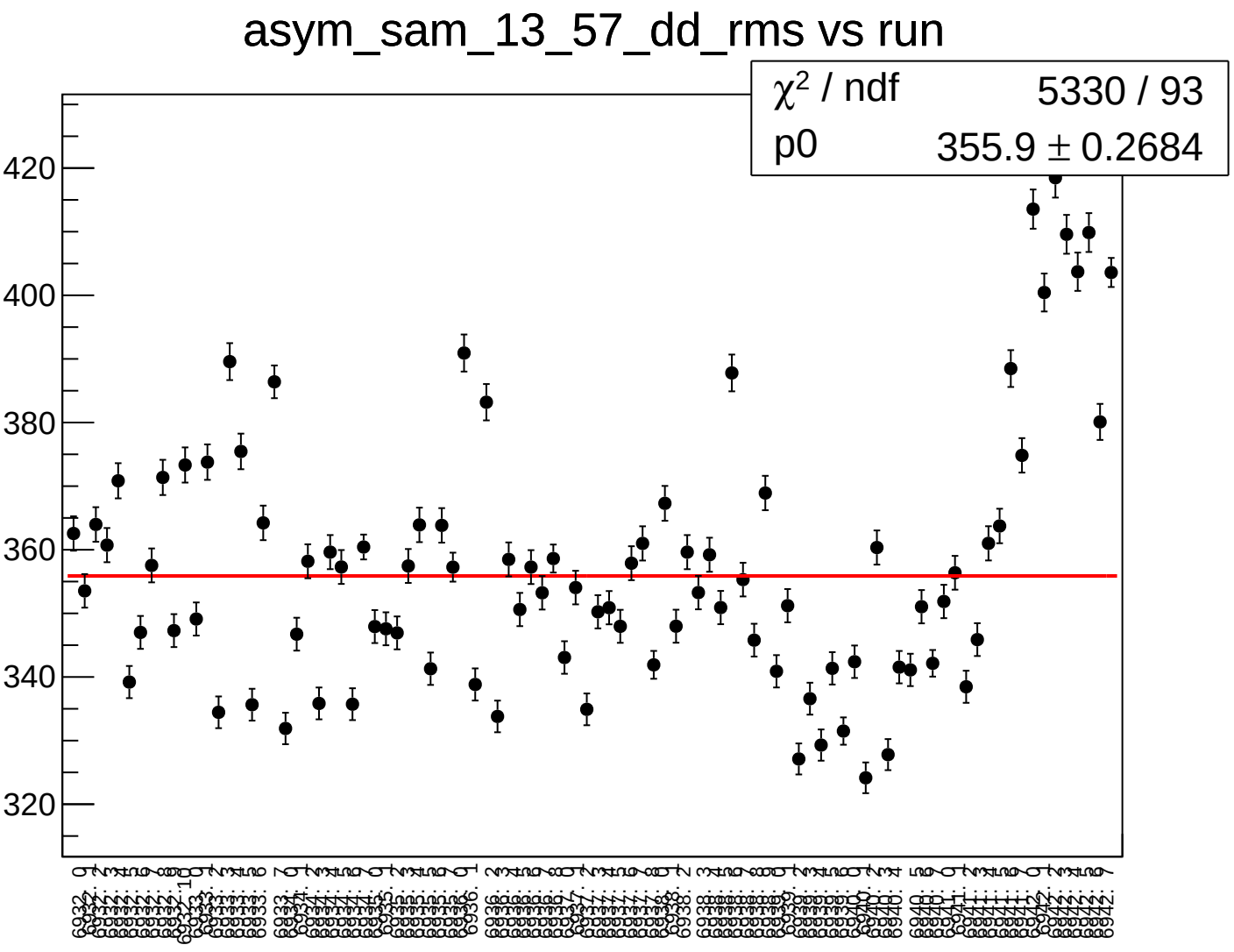

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1388 / 93
p0 62.45 ± 0.04704
68
66
64
62
60

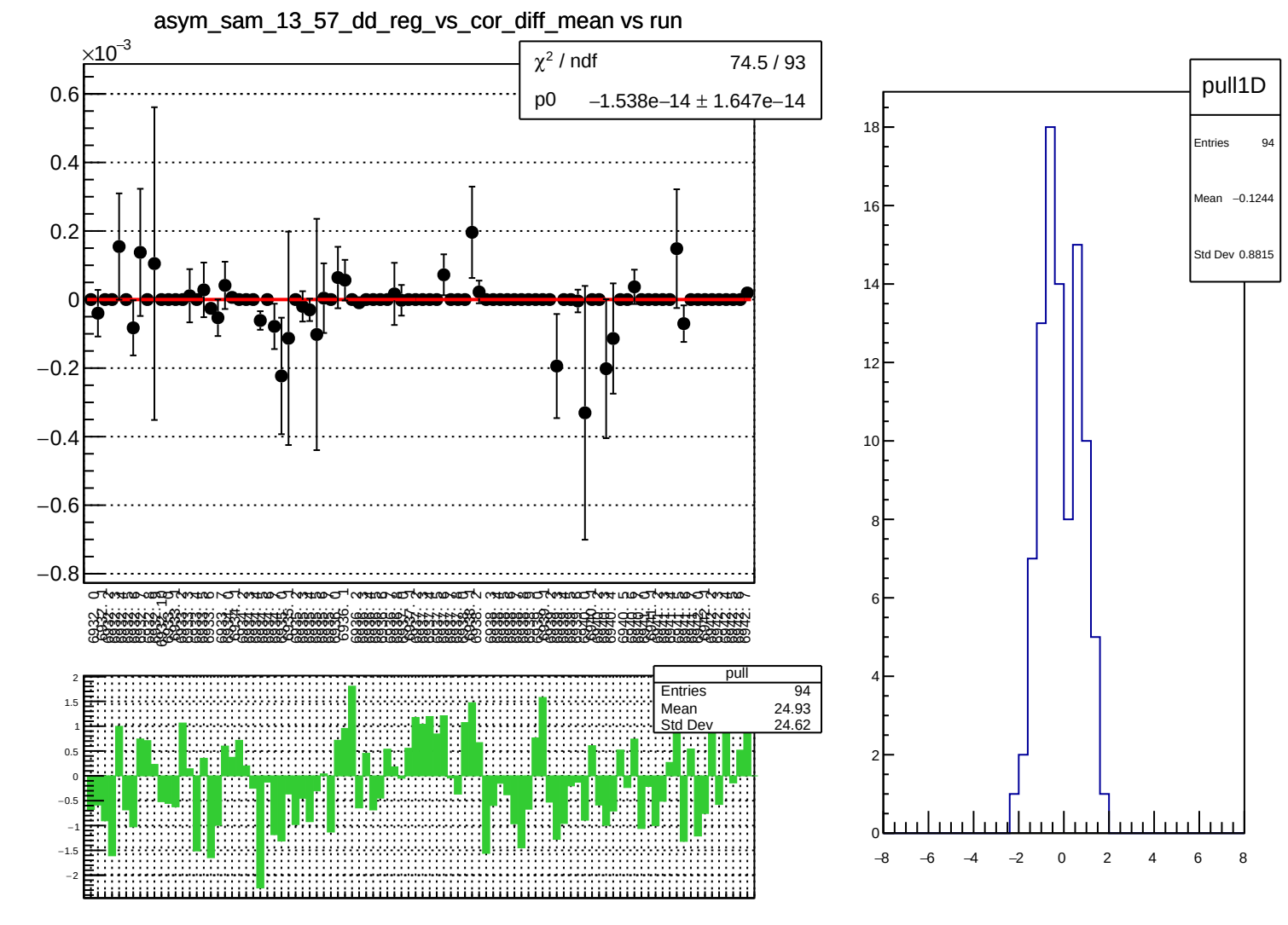

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 101.3 / 93
p0 −426.9 ± 377.9
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 175.9
Std Dev 0
3
2
1
0
−1
−2

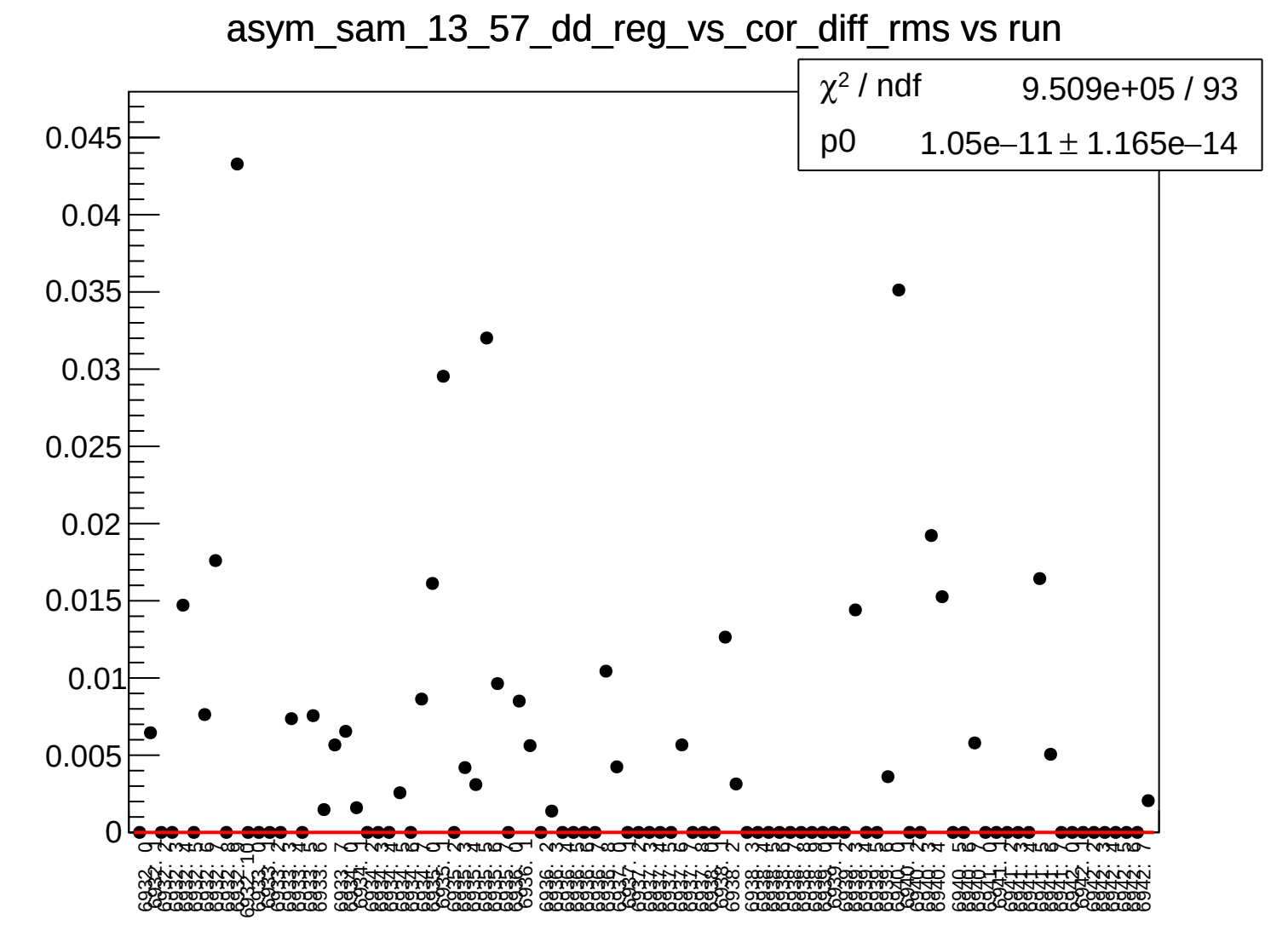

pull1D
Entries 94
Mean 0.01455
Std Dev 1.038
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

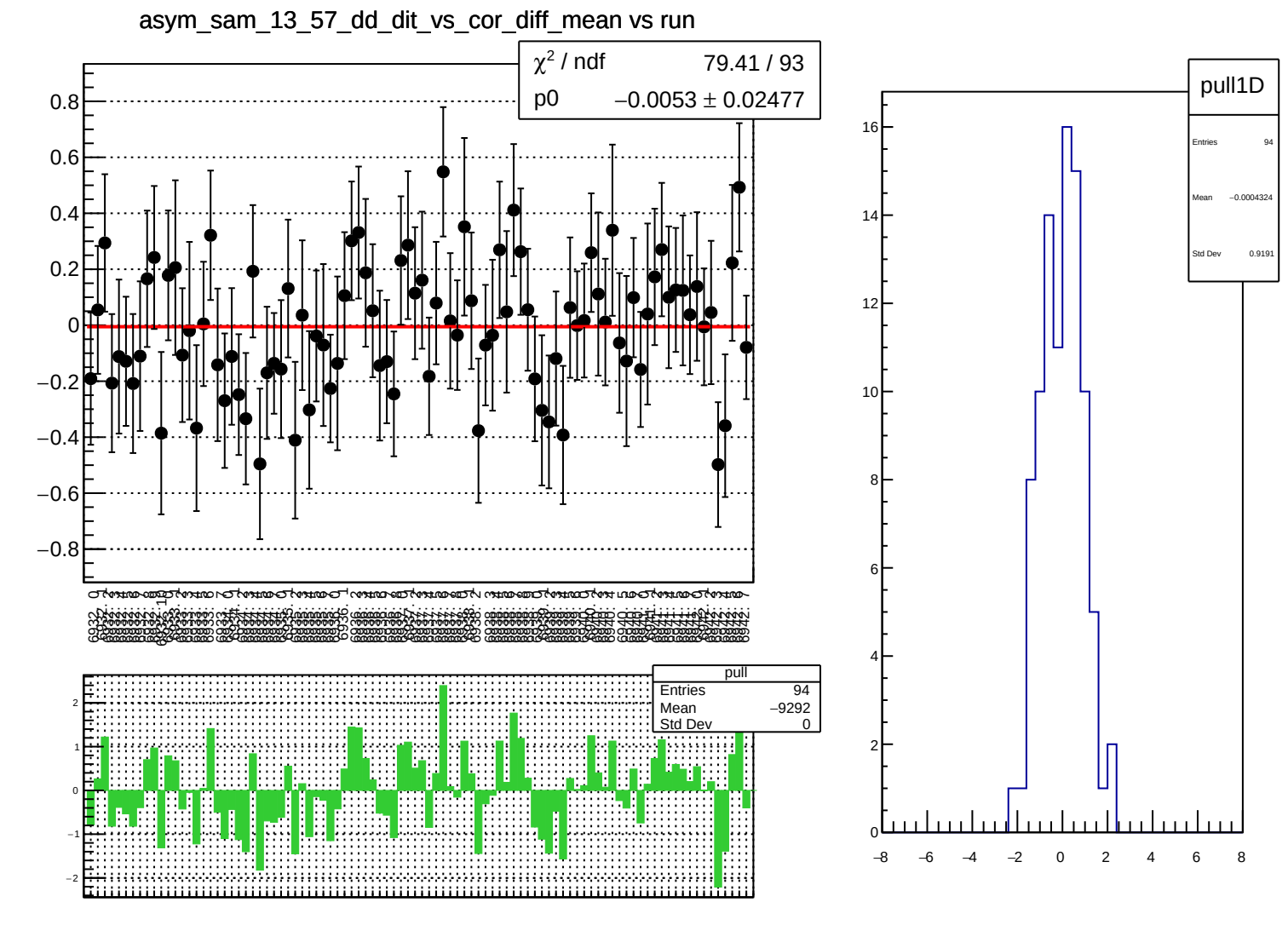

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 4679 / 93
p0 354.4 ± 0.2672
420
400
380
360
340
320

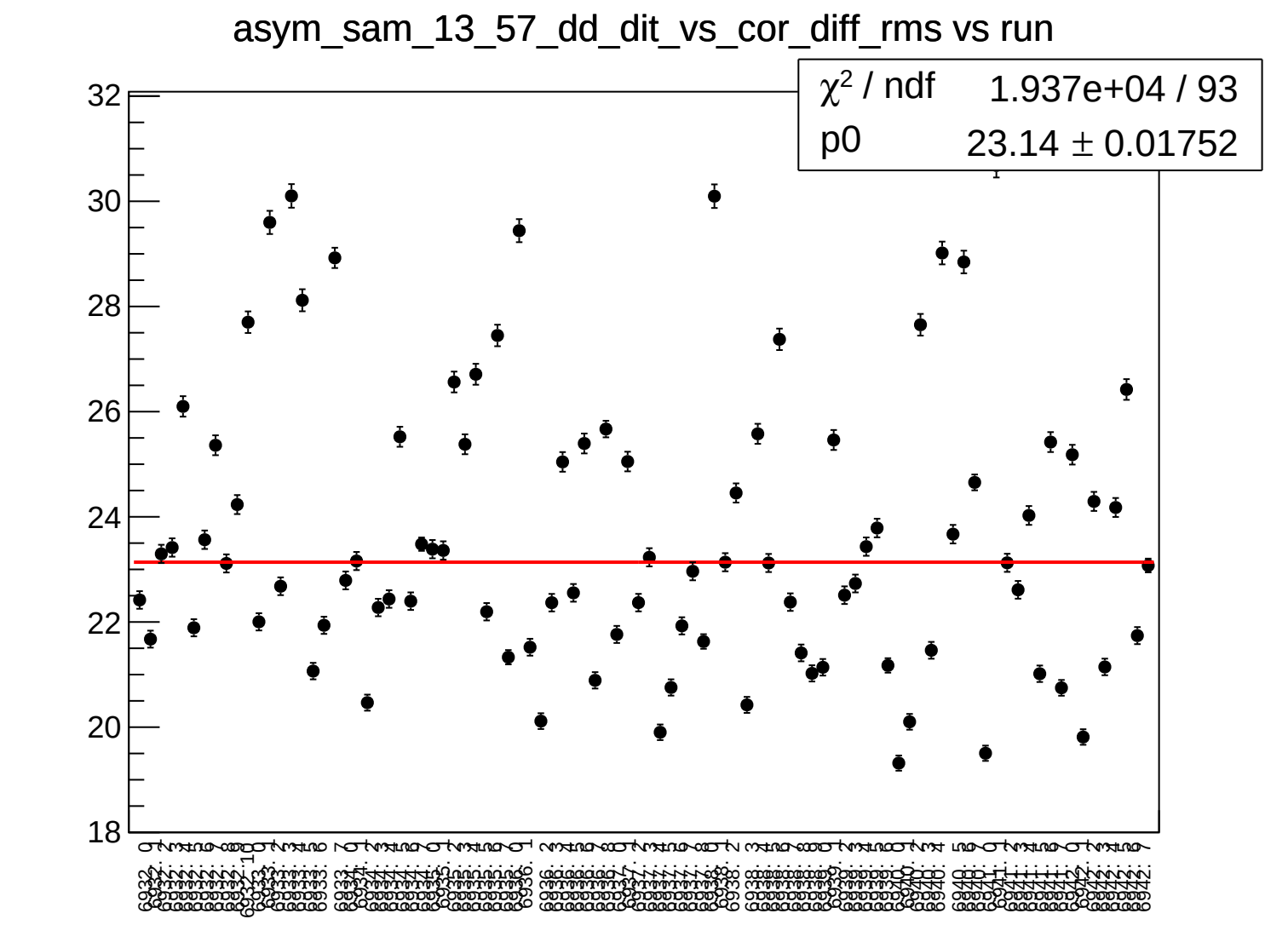

asym_sam_13_57_dd_mean vs run
χ² / ndf 103.2 / 93
p0 548.9 ± 379.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 189.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01327
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

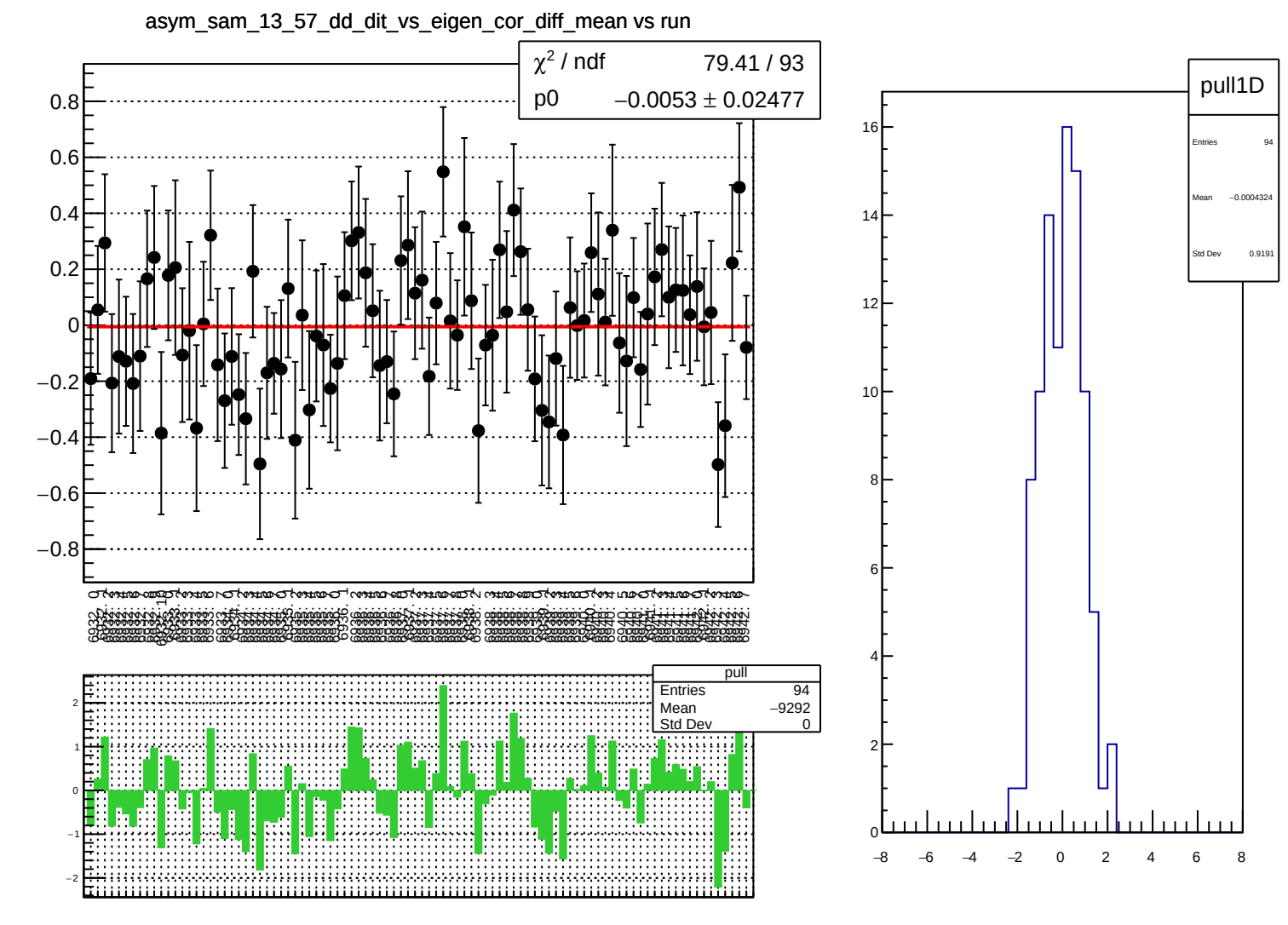

asym_sam_13_57_dd_rms vs run
χ² / ndf 5330 / 93
p0 355.9 ± 0.2684
420
400
380
360
340
320

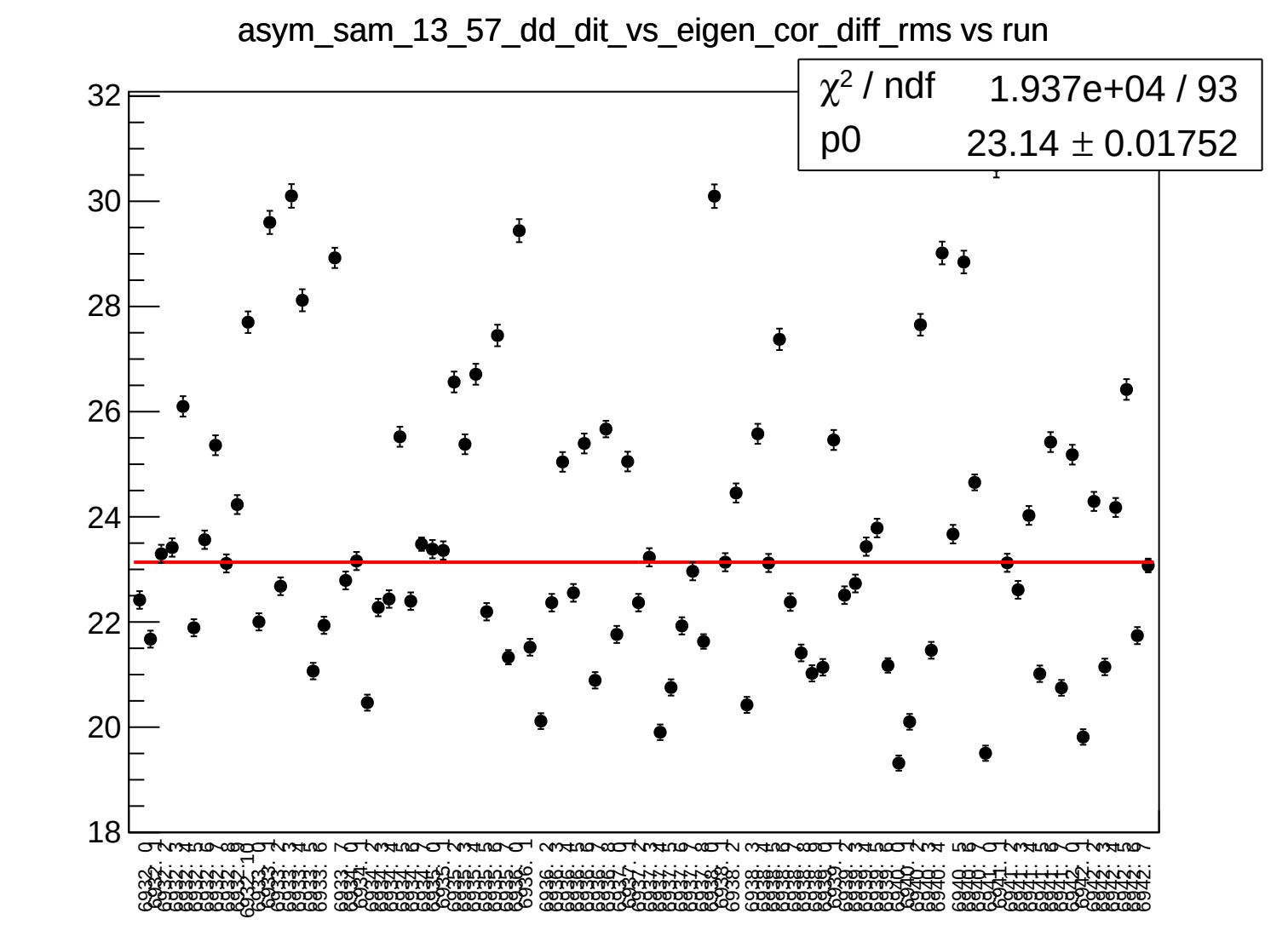

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 74.5 / 93
p0 −1.538e−14 ± 1.647e−14
pull
Entries 94
Mean 24.93
Std Dev 24.62
pull1D
Entries 94
Mean −0.1244
Std Dev 0.8815

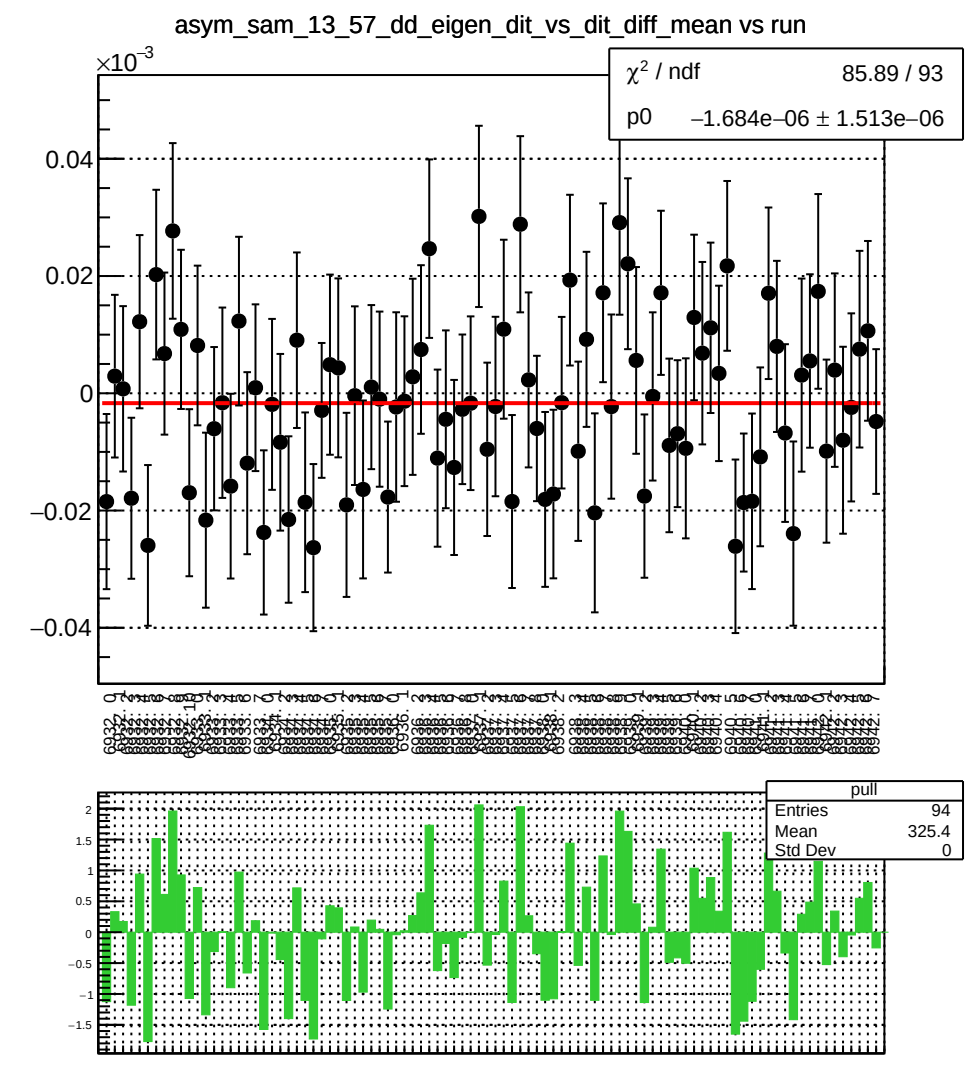

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.509e+05 / 93
p0 1.05e−11 ± 1.165e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

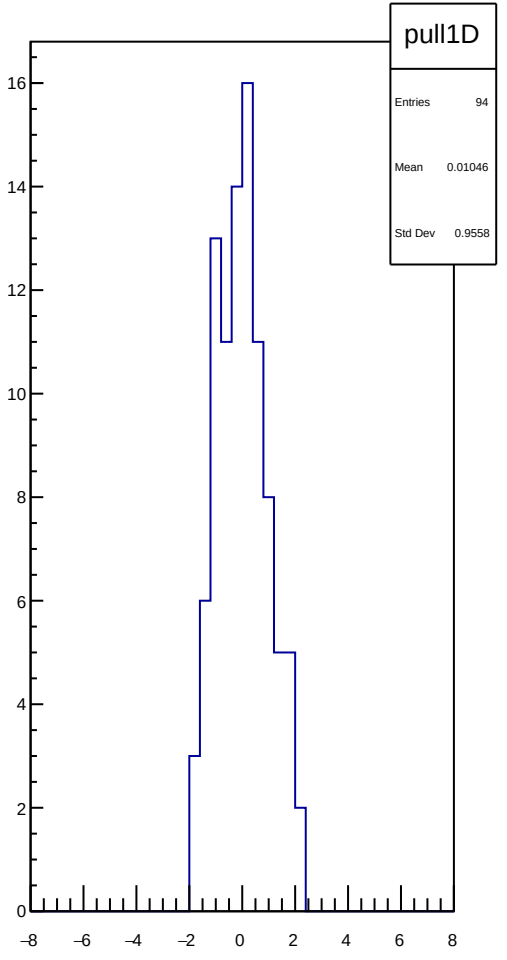

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.41 / 93
p0 −0.0053 ± 0.02477
pull
Entries 94
Mean −9292
Std Dev 0
pull1D
Entries 94
Mean −0.0004324
Std Dev 0.9191


asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 93
p0 23.14 ± 0.01752
32
30
28
26
24
22
20
18


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.41 / 93
p0 −0.0053 ± 0.02477
pull
Entries 94
Mean −9292
Std Dev 0
pull1D
Entries 94
Mean −0.0004324
Std Dev 0.9191


asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 93
p0 23.14 ± 0.01752
32
30
28
26
24
22
20
18


asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.89 / 93
p0 −1.684e−06 ± 1.513e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 325.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 94
Mean 0.01046
Std Dev 0.9558
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14
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10
8
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−4
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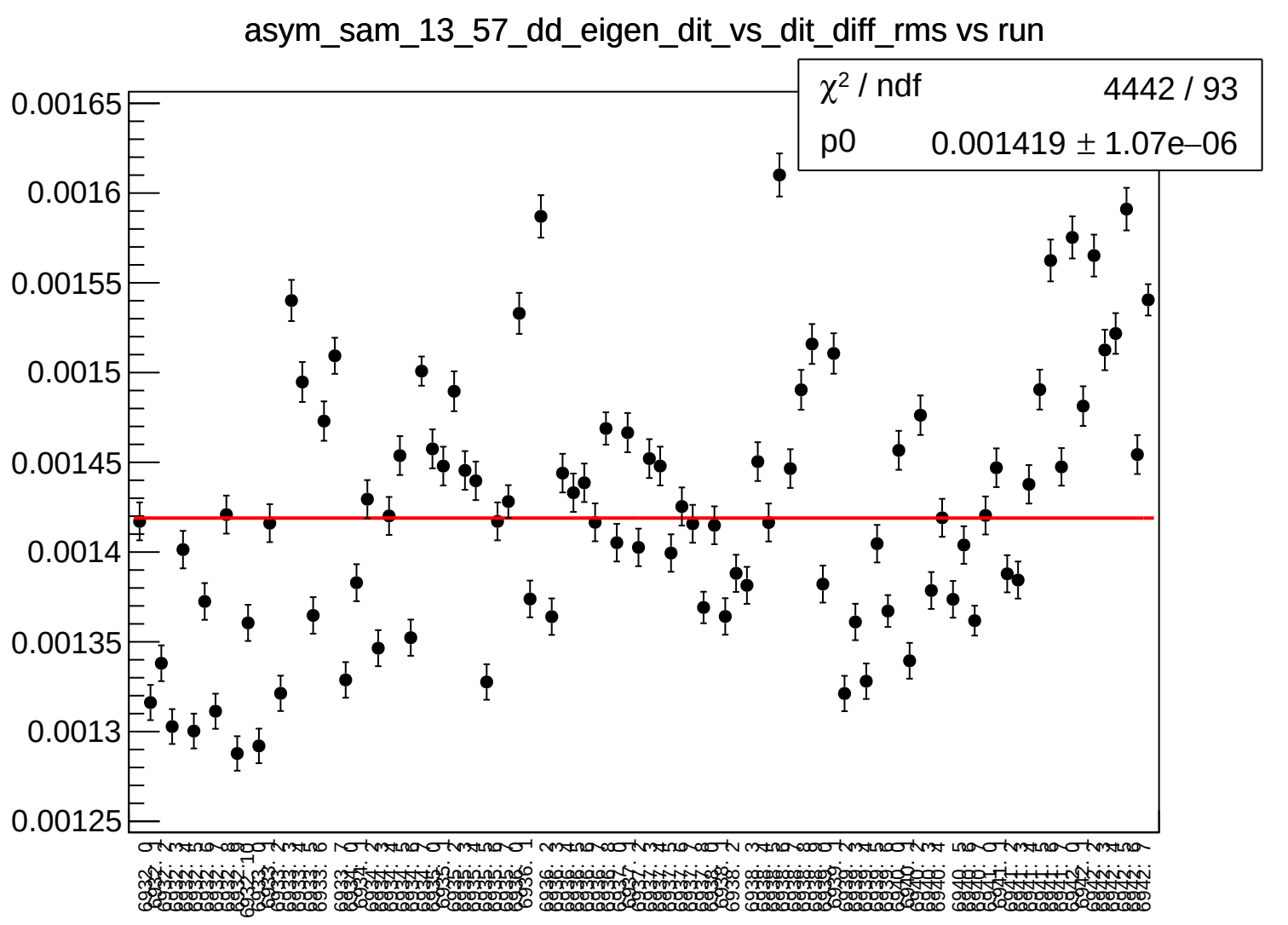
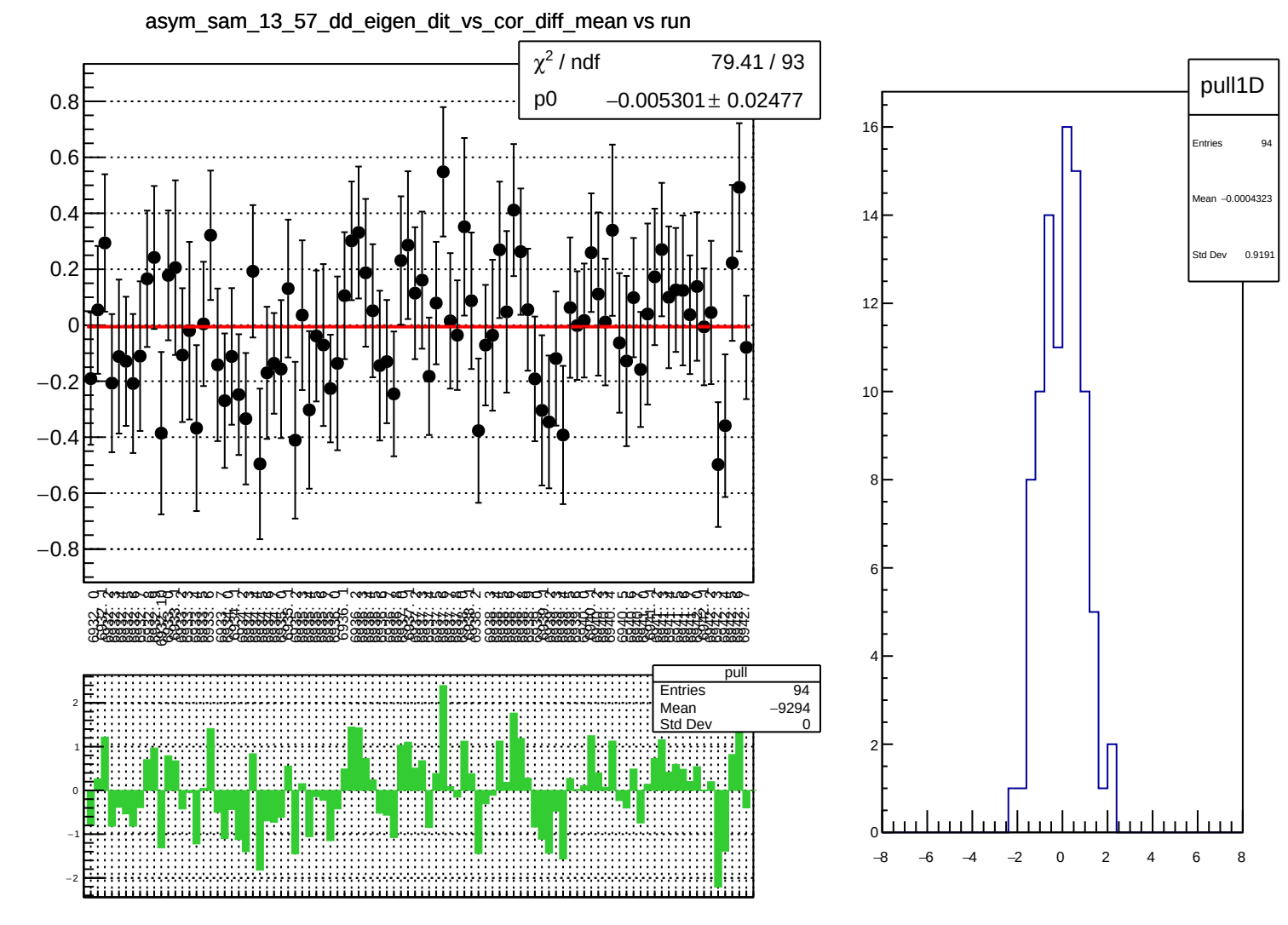
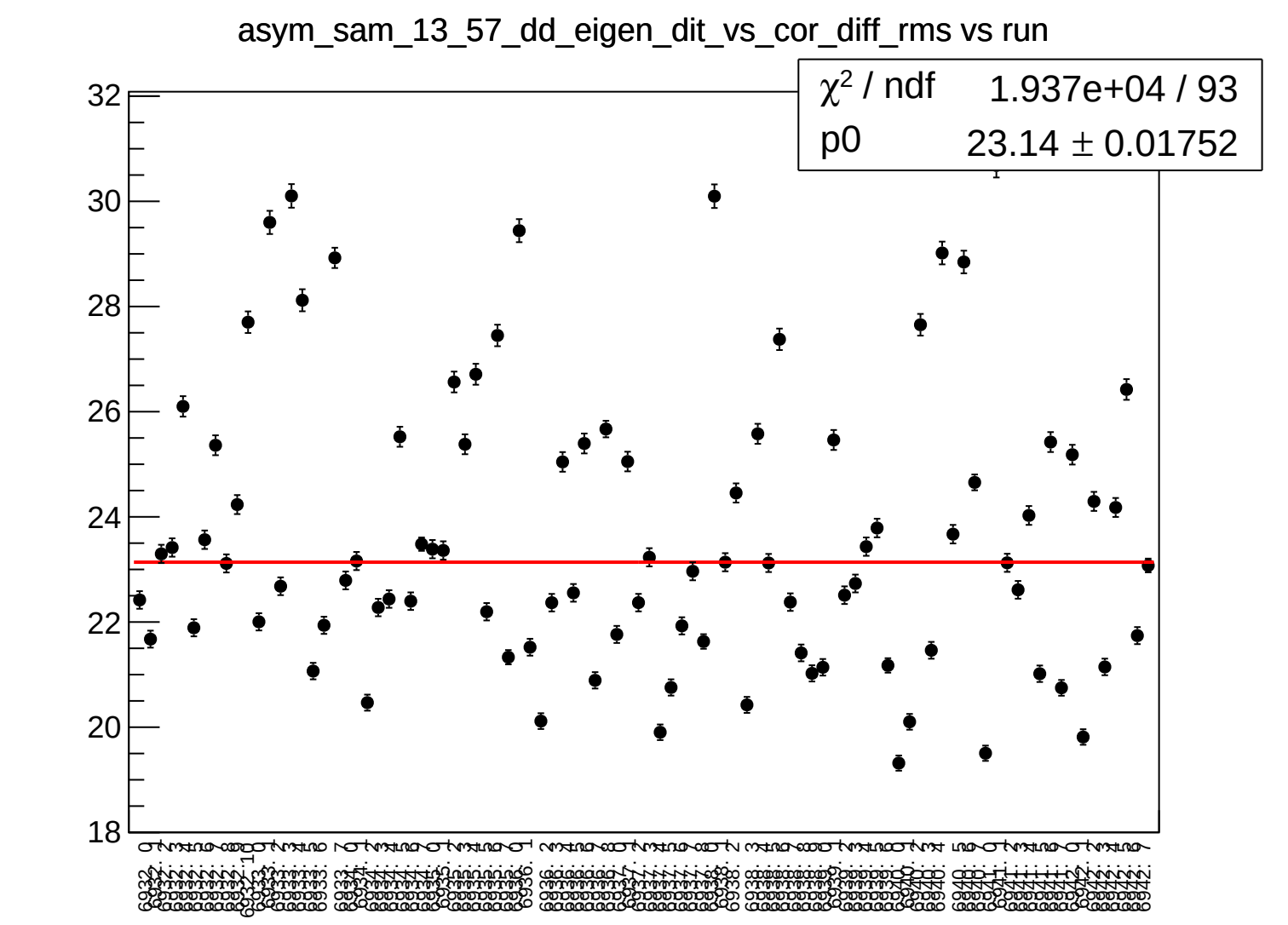
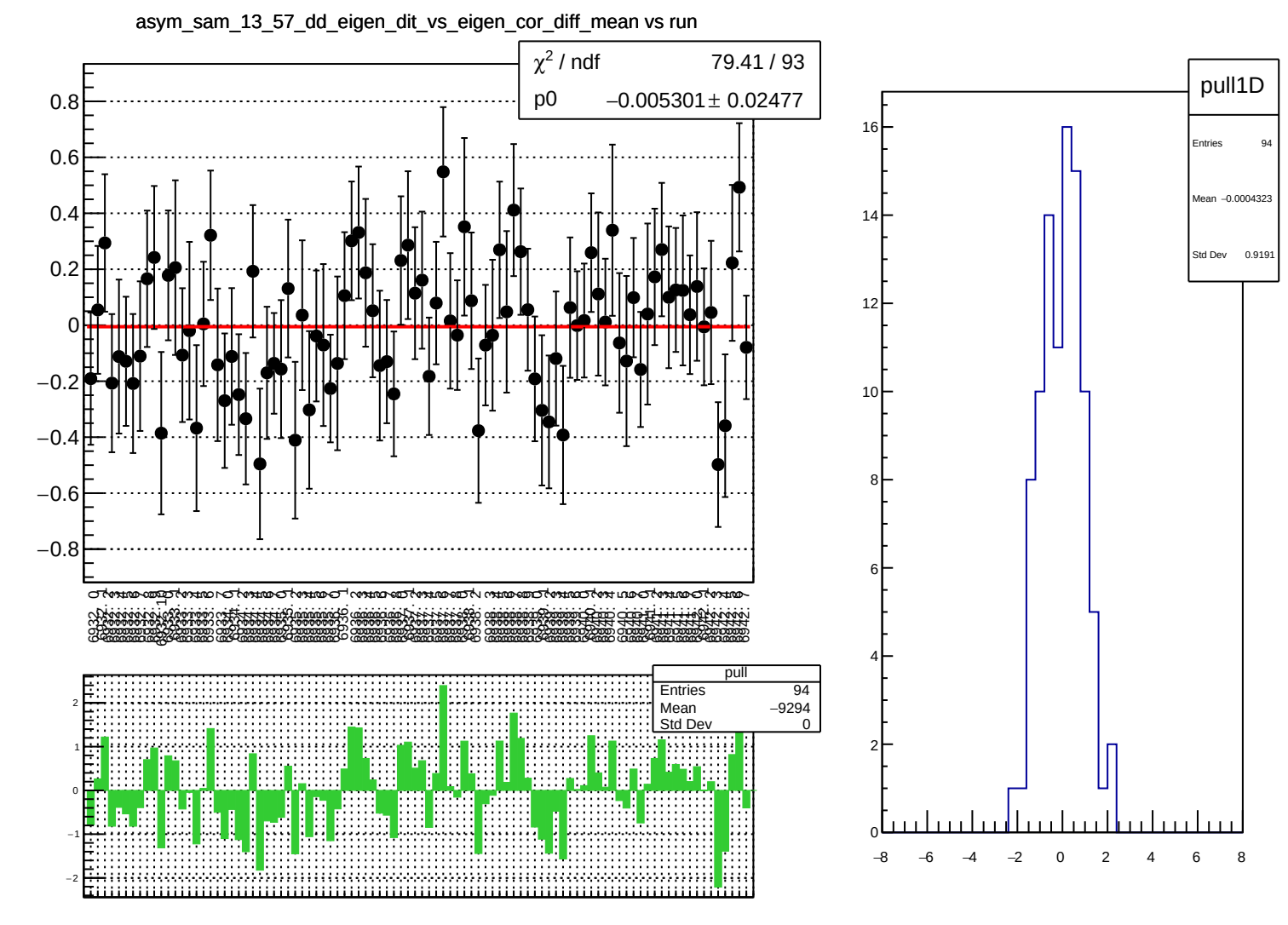
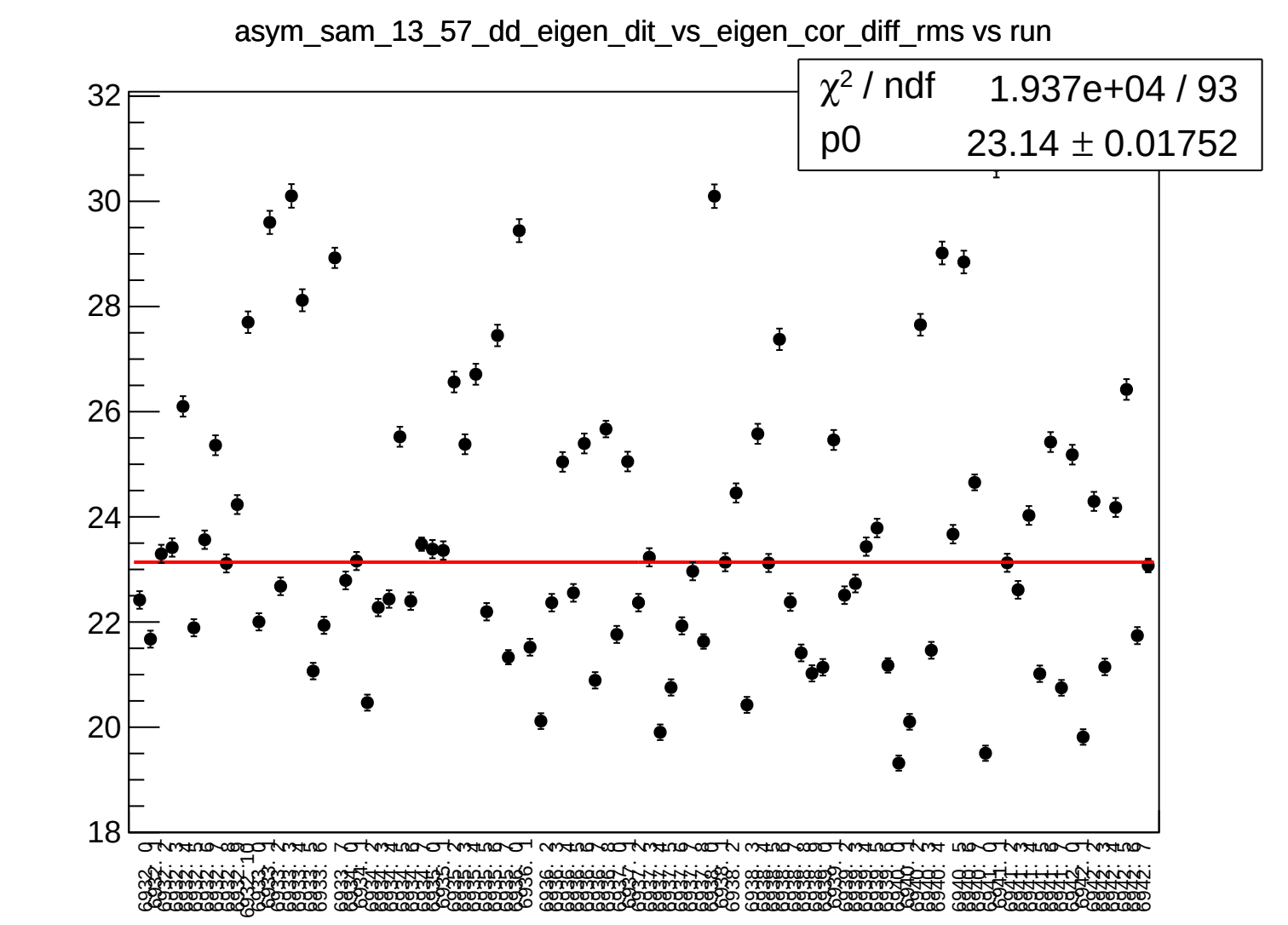
2
4
6
8

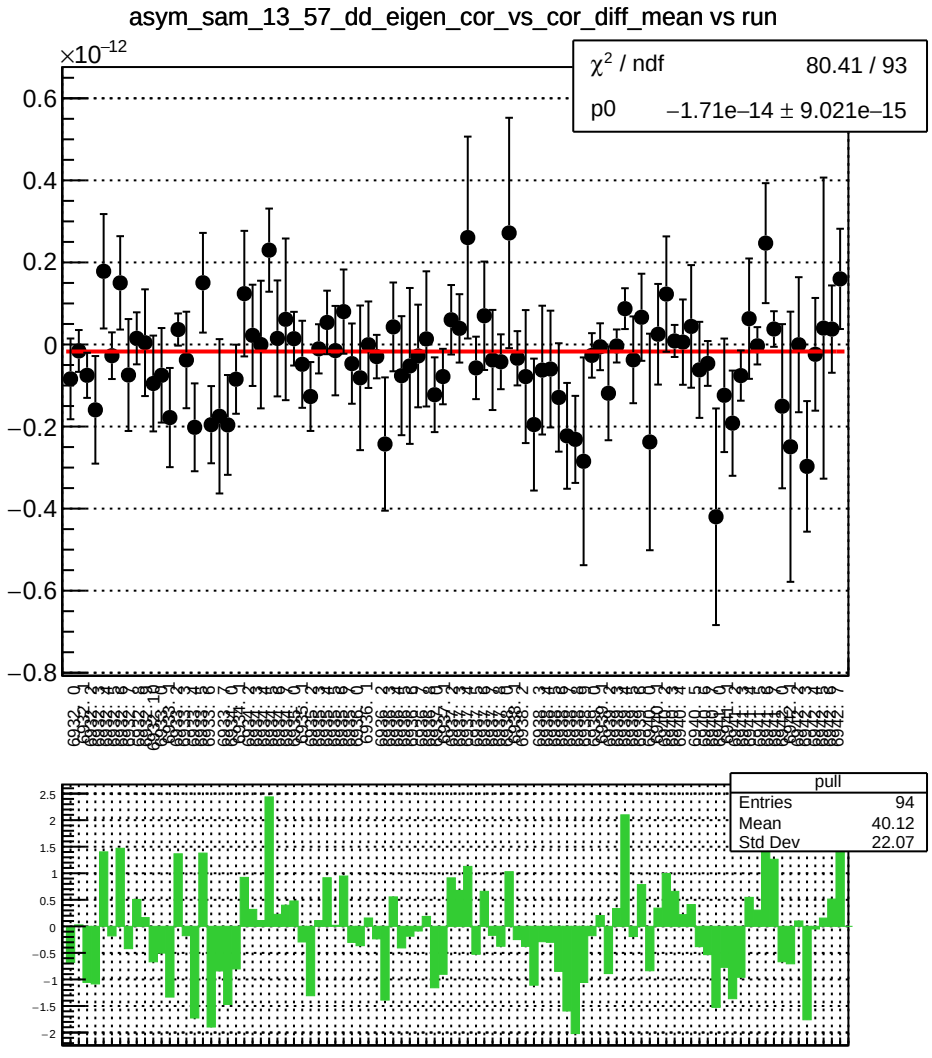

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4442 / 93
p0 0.001419 ± 1.07e–06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

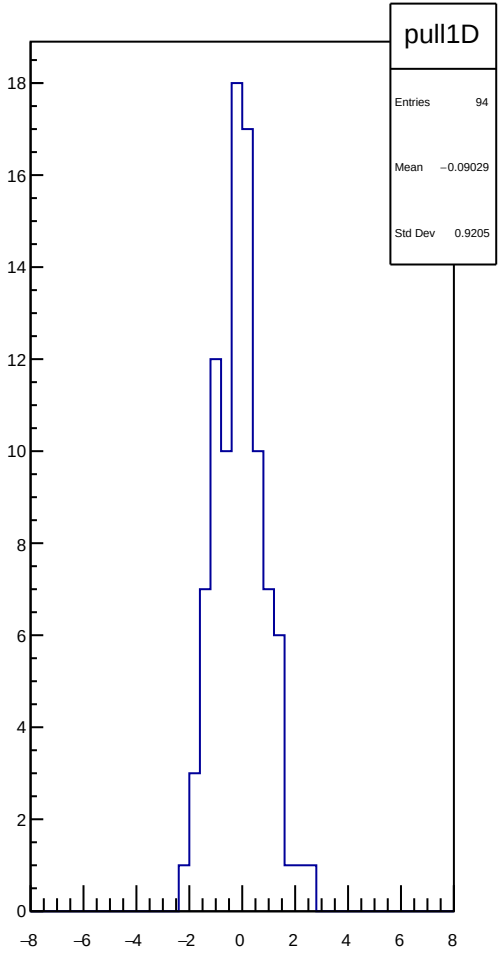

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.41 / 93
p0 −0.005301 ± 0.02477
pull
Entries 94
Mean −9294
Std Dev 0
pull1D
Entries 94
Mean −0.0004323
Std Dev 0.9191

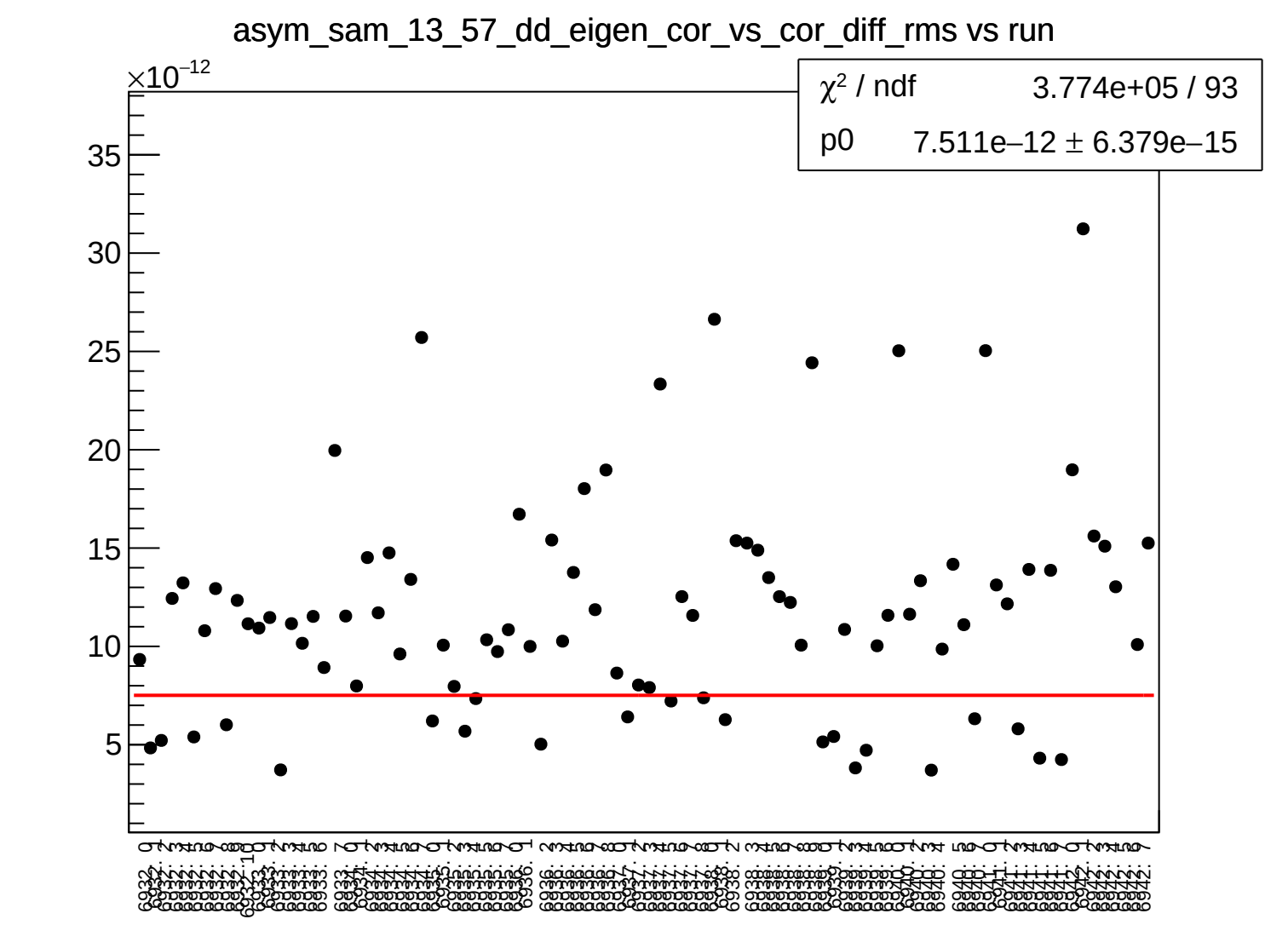

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 93
p0 23.14 ± 0.01752
32
30
28
26
24
22
20
18

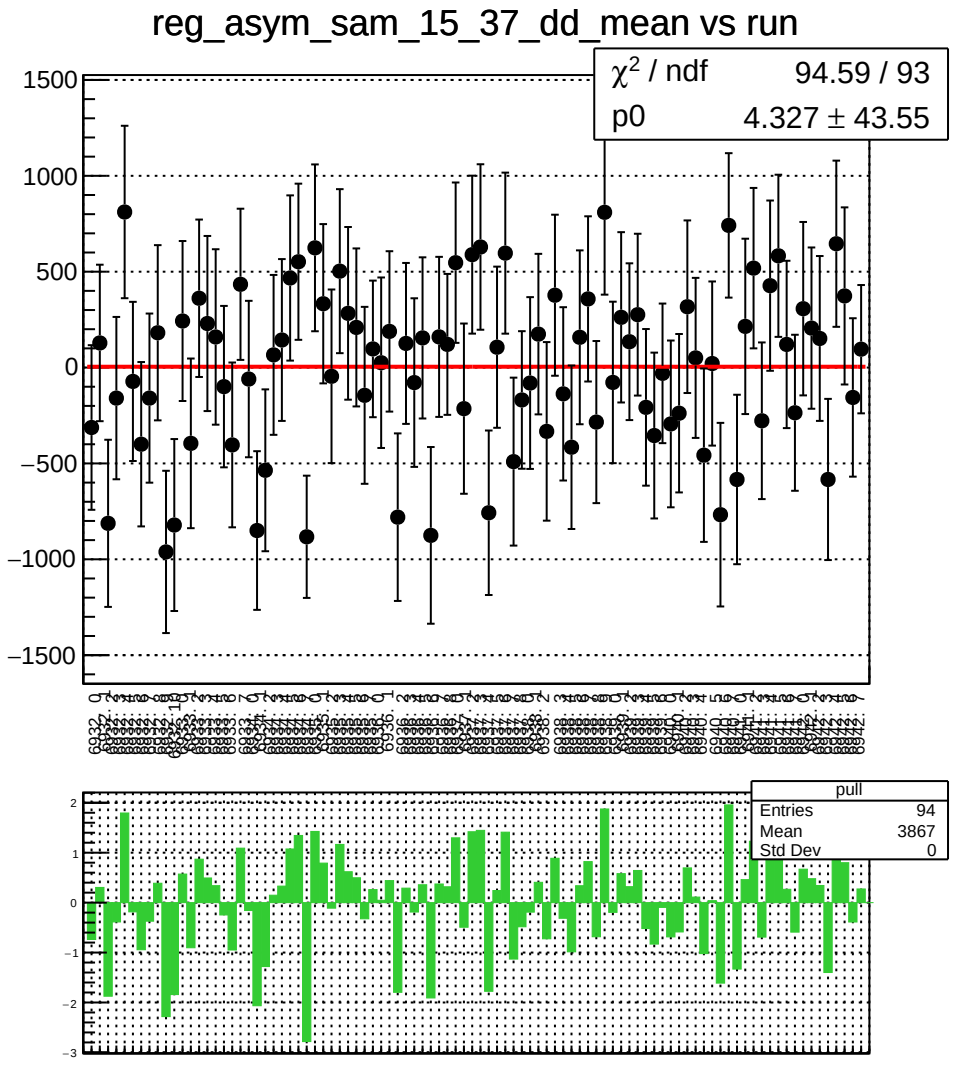

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.41 / 93
p0 −0.005301 ± 0.02477
pull
Entries 94
Mean −9294
Std Dev 0
pull1D
Entries 94
Mean −0.0004323
Std Dev 0.9191

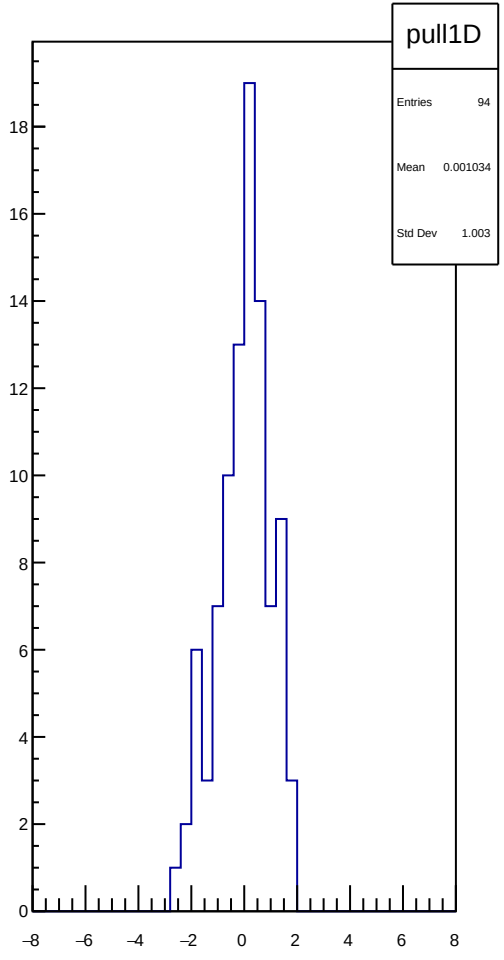

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+04 / 93
p0 23.14 ± 0.01752
32
30
28
26
24
22
20
18

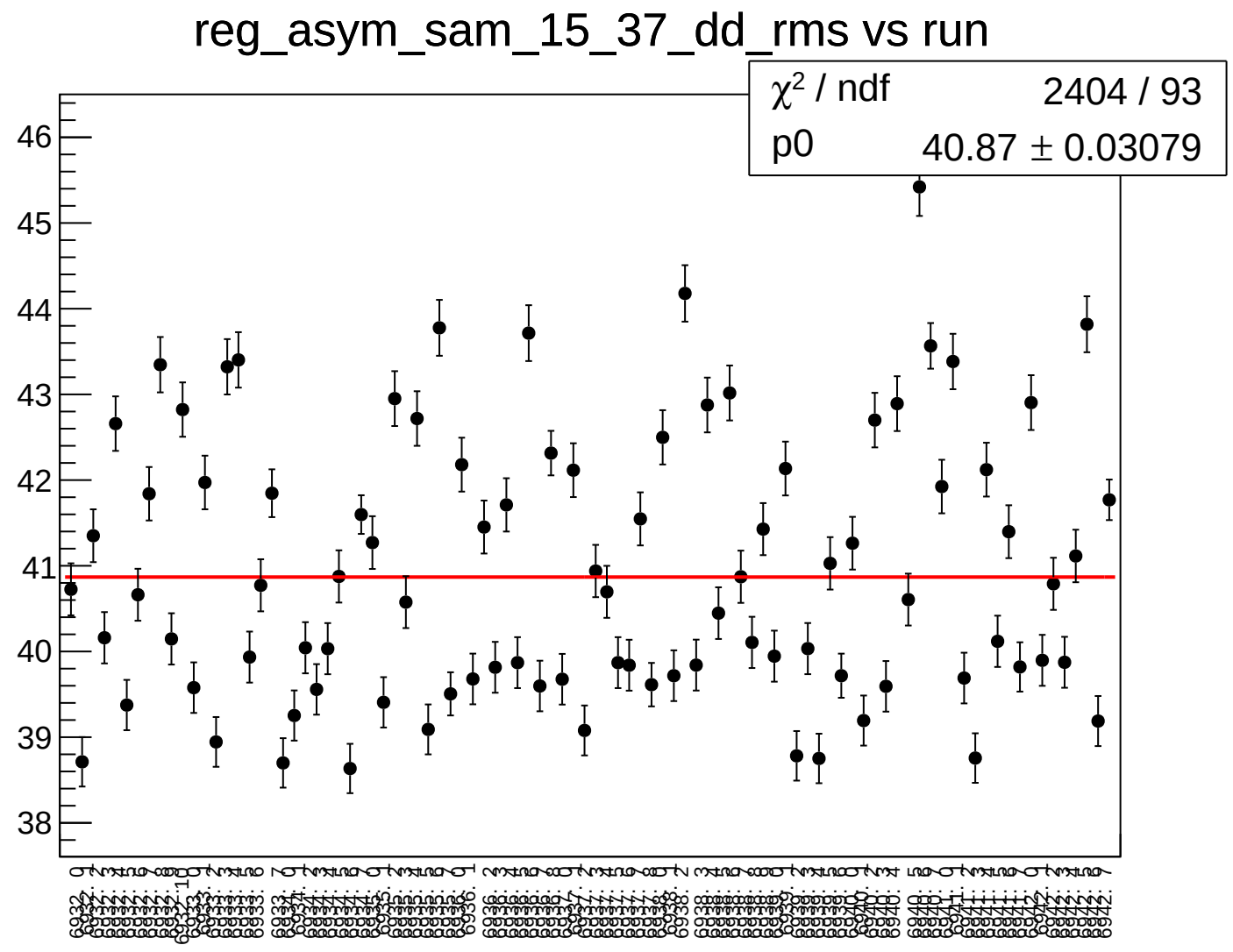

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 80.41 / 93
p0 −1.71e−14 ± 9.021e−15
pull
Entries 94
Mean 40.12
Std Dev 22.07

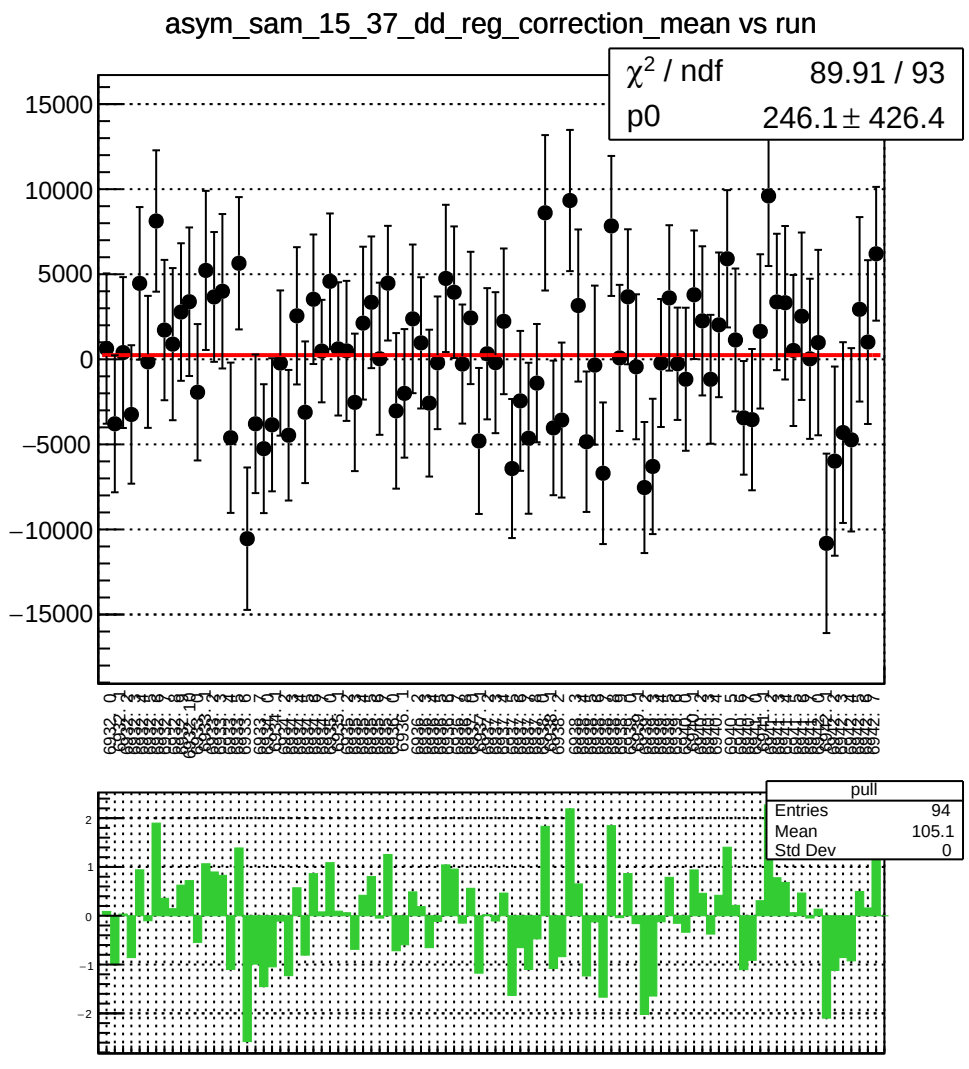

pull1D
Entries 94
Mean −0.09029
Std Dev 0.9205

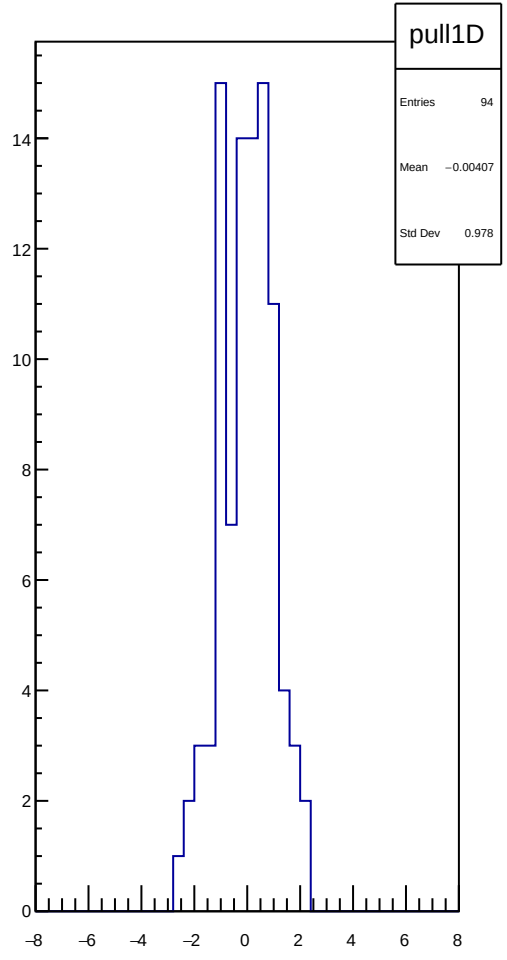

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.774e+05 / 93
p0 7.511e−12 ± 6.379e−15
35
30
25
20
15
10
5

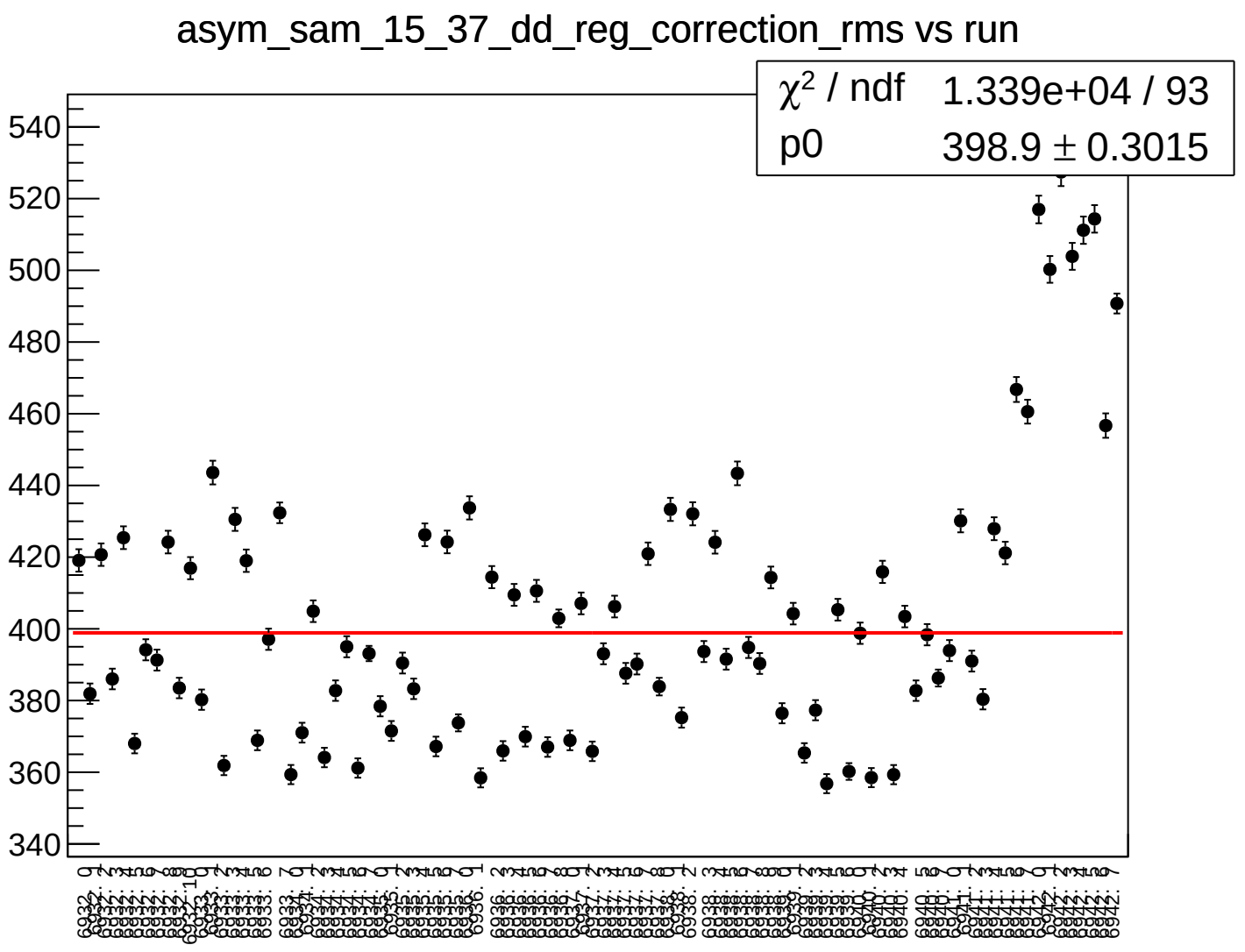

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.59 / 93
p0 4.327 ± 43.55
pull
Entries 94
Mean 3867
Std Dev 0

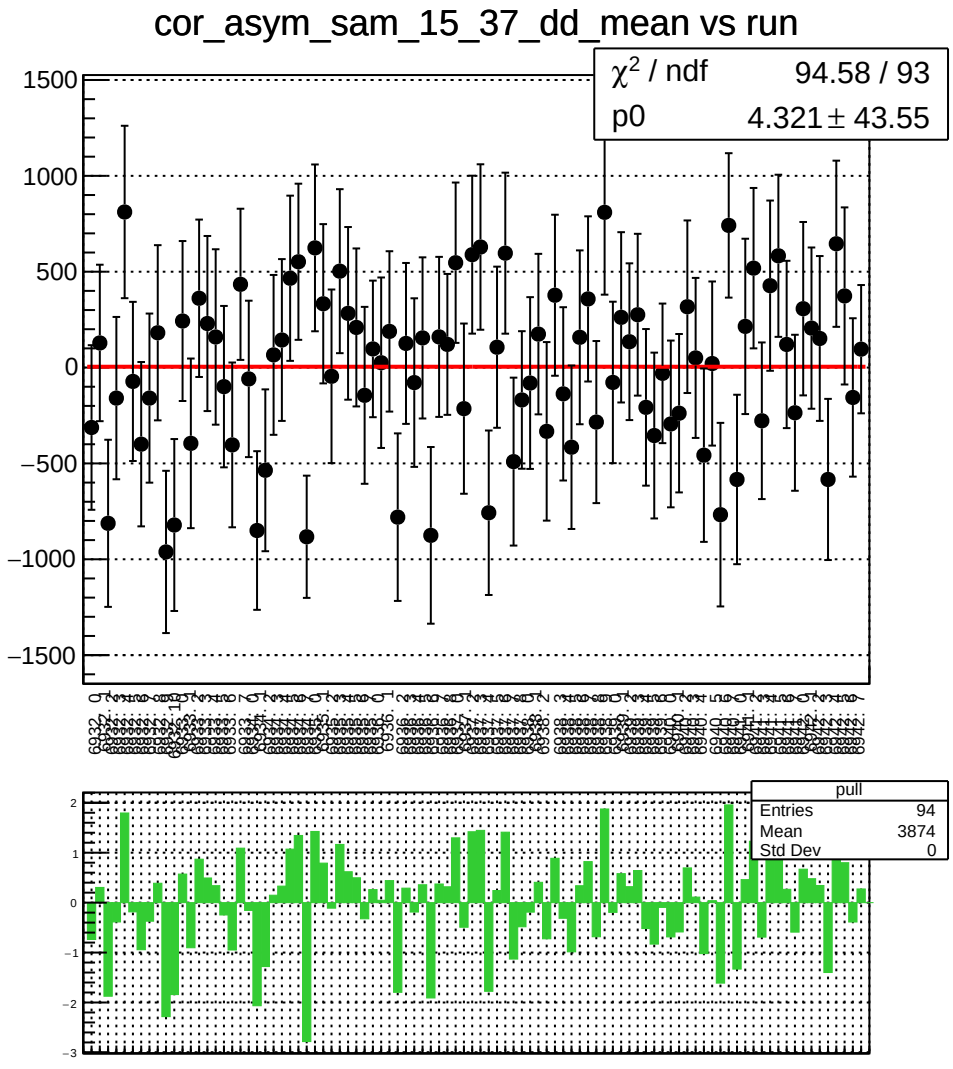

pull1D
Entries 94
Mean 0.001034
Std Dev 1.003

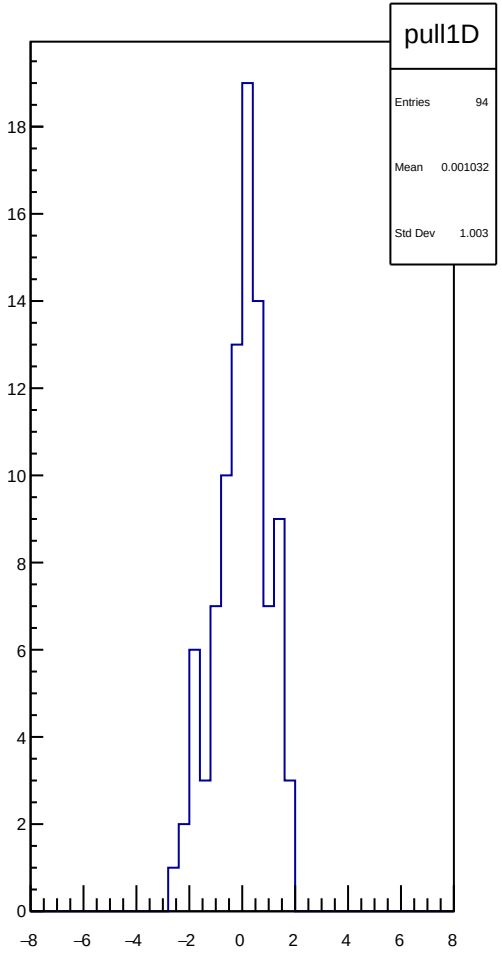

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2404 / 93
p0 40.87 ± 0.03079
46
45
44
43
42
41
40
39
38

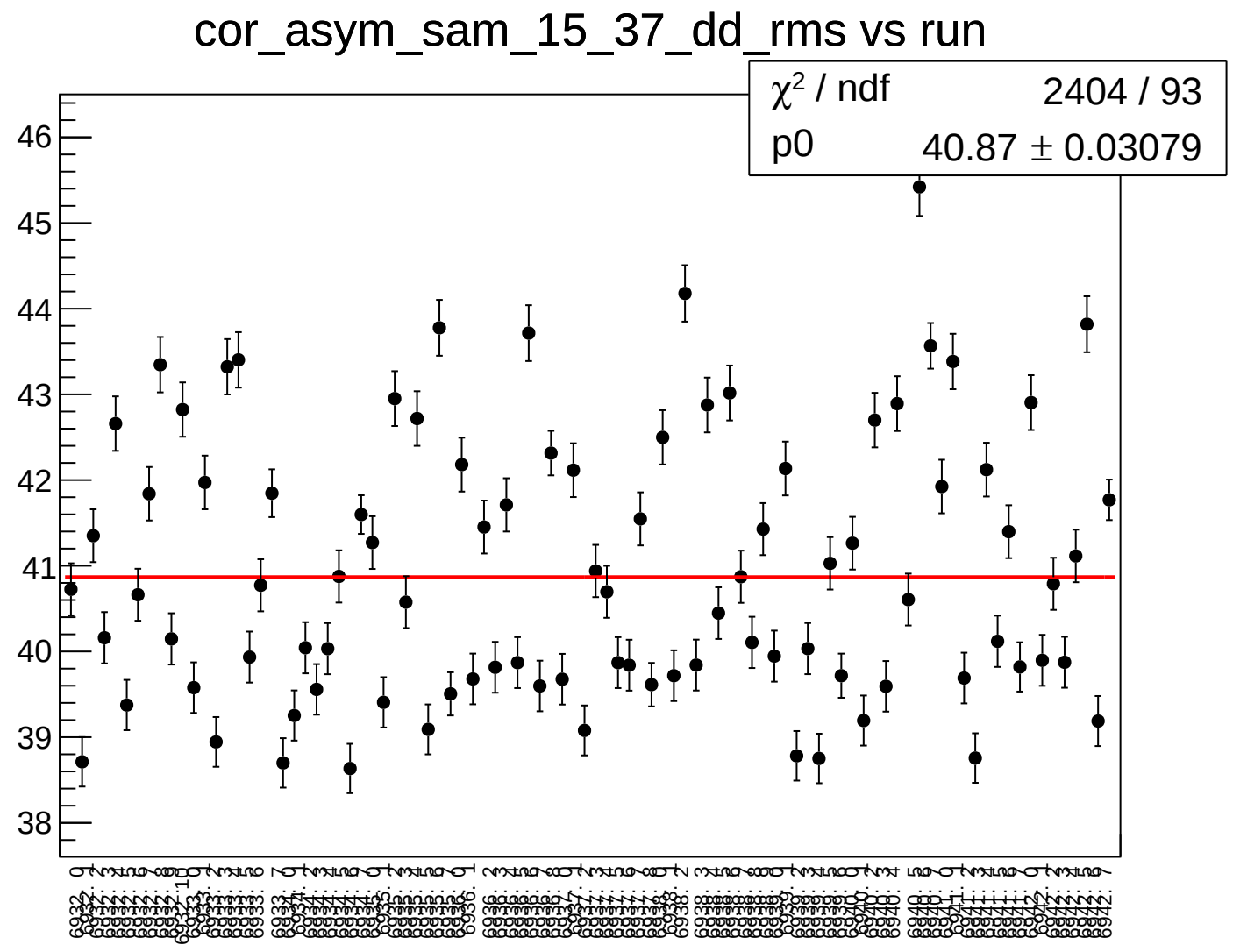

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 89.91 / 93
p0 246.1 ± 426.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 105.1
Std Dev 0
2
1
0
−1
−2

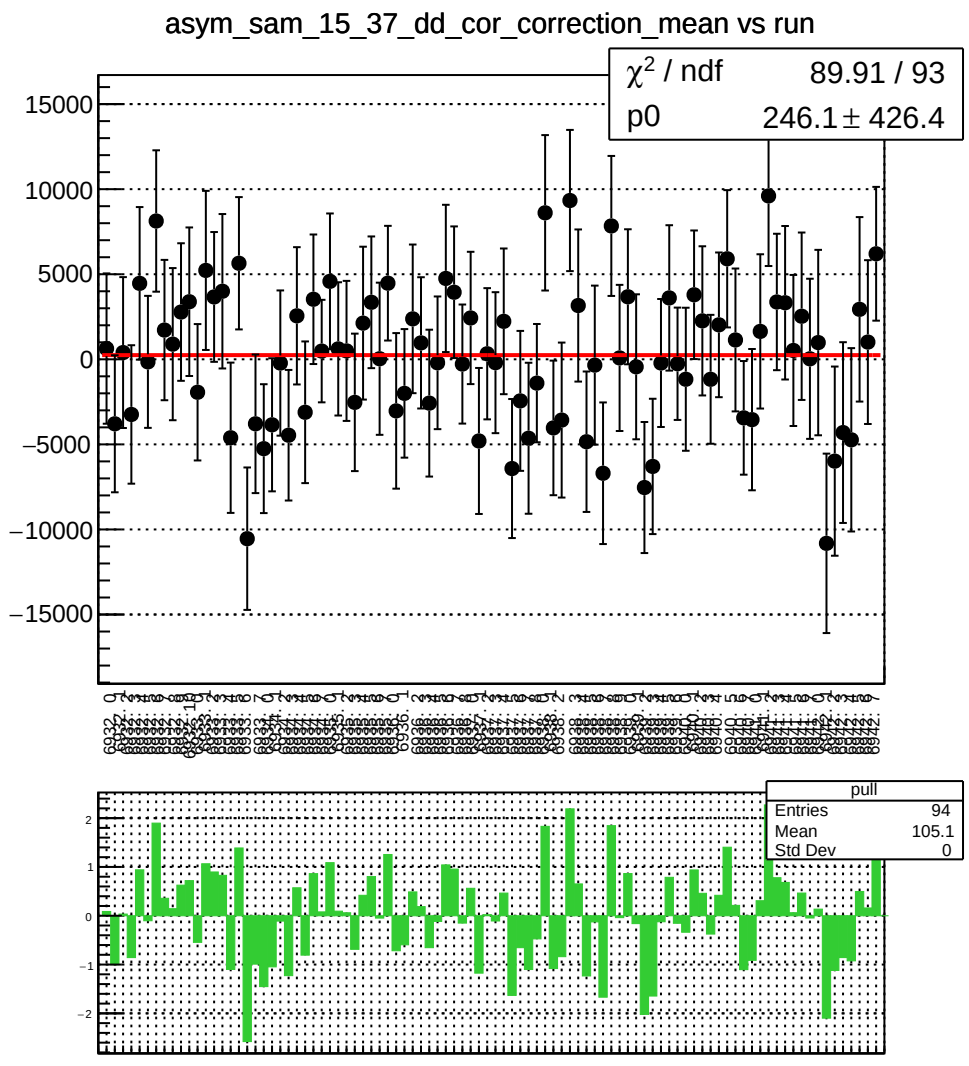

pull1D
Entries 94
Mean −0.00407
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

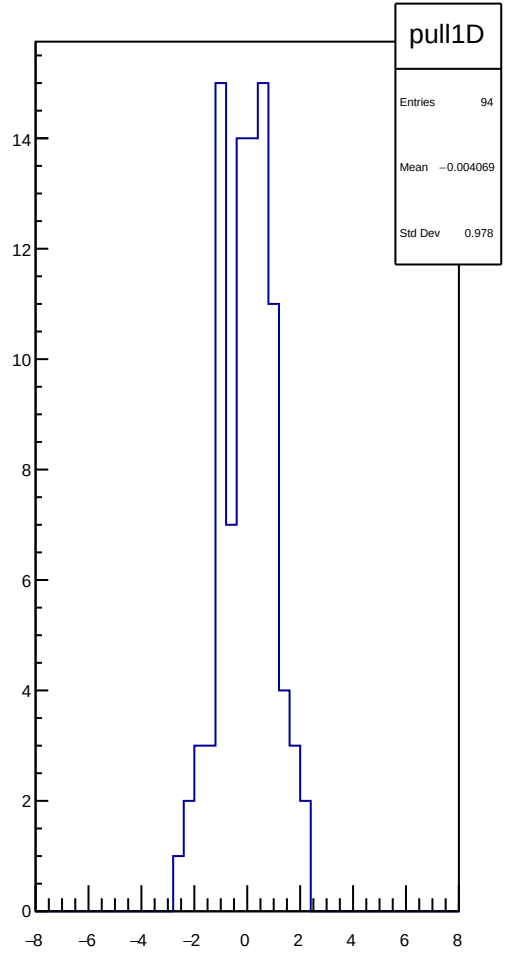

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 1.339e+04 / 93
p0 398.9 ± 0.3015
540
520
500
480
460
440
420
400
380
360
340

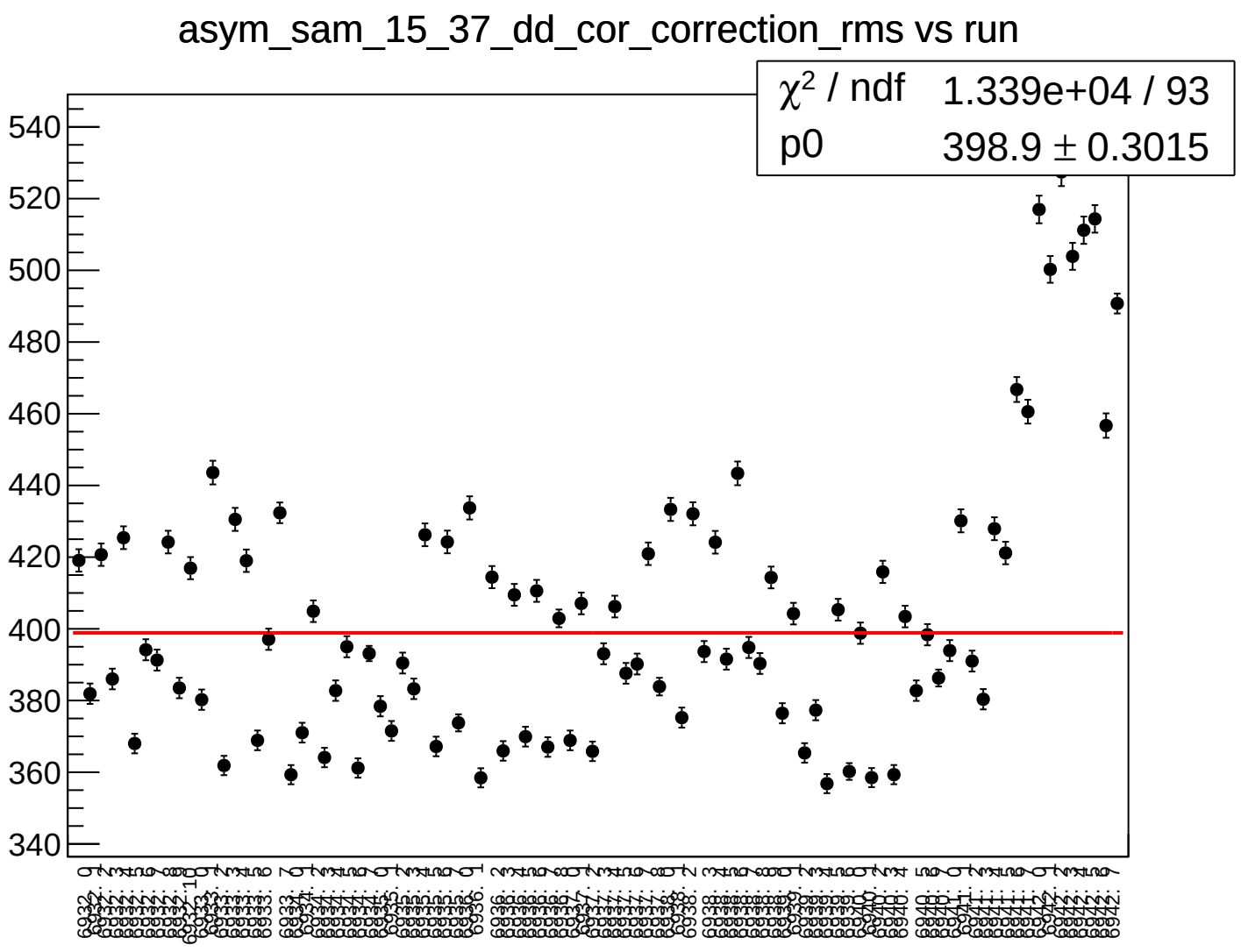

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.58 / 93
p0 4.321 ± 43.55
pull
Entries 94
Mean 3874
Std Dev 0

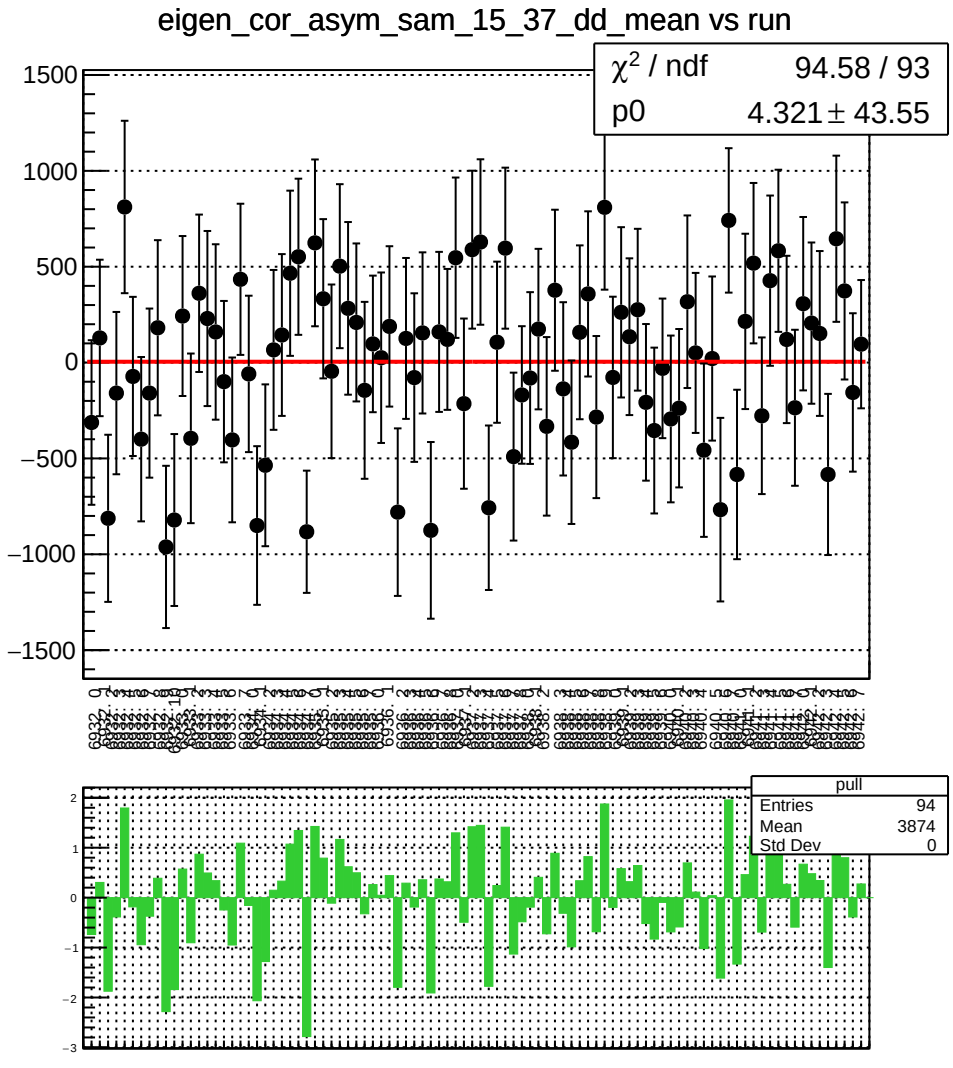

pull1D
Entries 94
Mean 0.001032
Std Dev 1.003

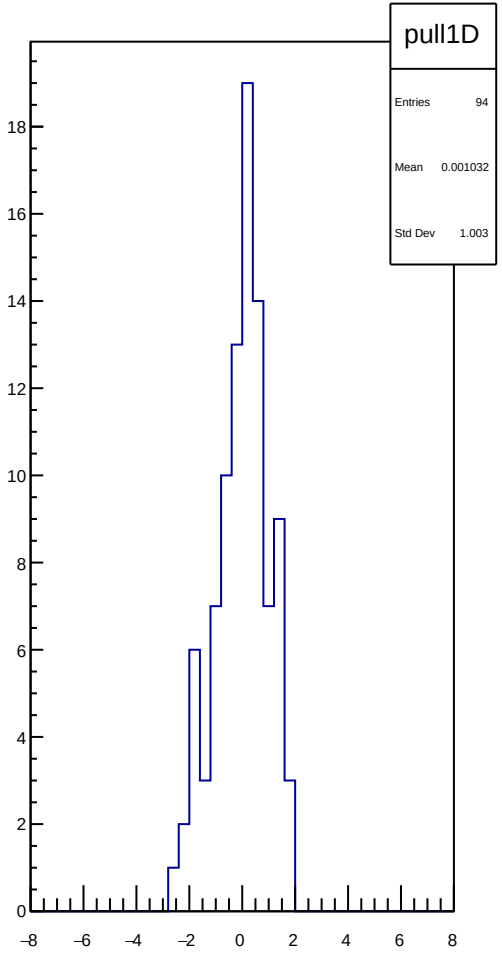

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2404 / 93
p0 40.87 ± 0.03079
46
45
44
43
42
41
40
39
38

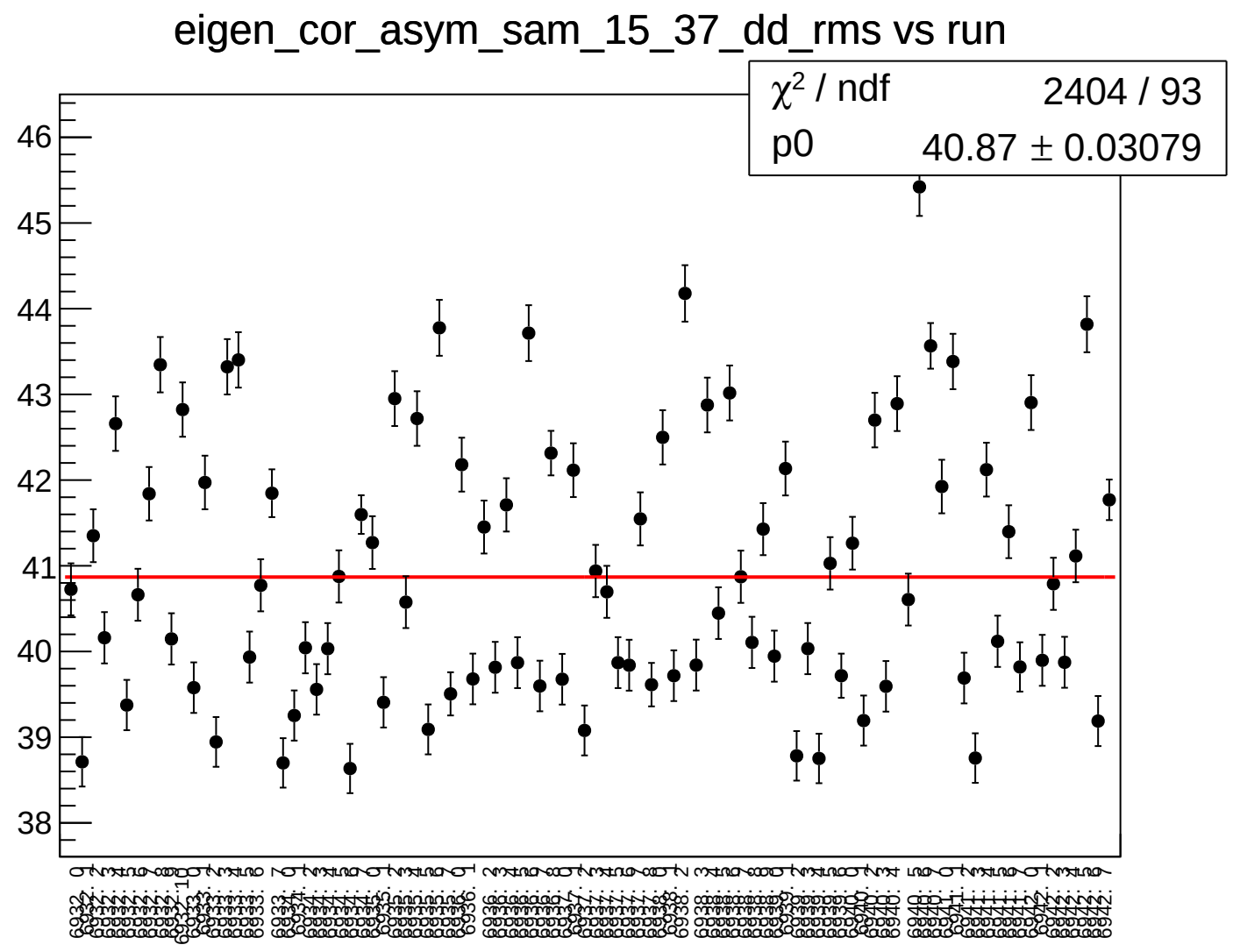

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 89.91 / 93
p0 246.1 ± 426.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 105.1
Std Dev 0
2
1
0
−1
−2

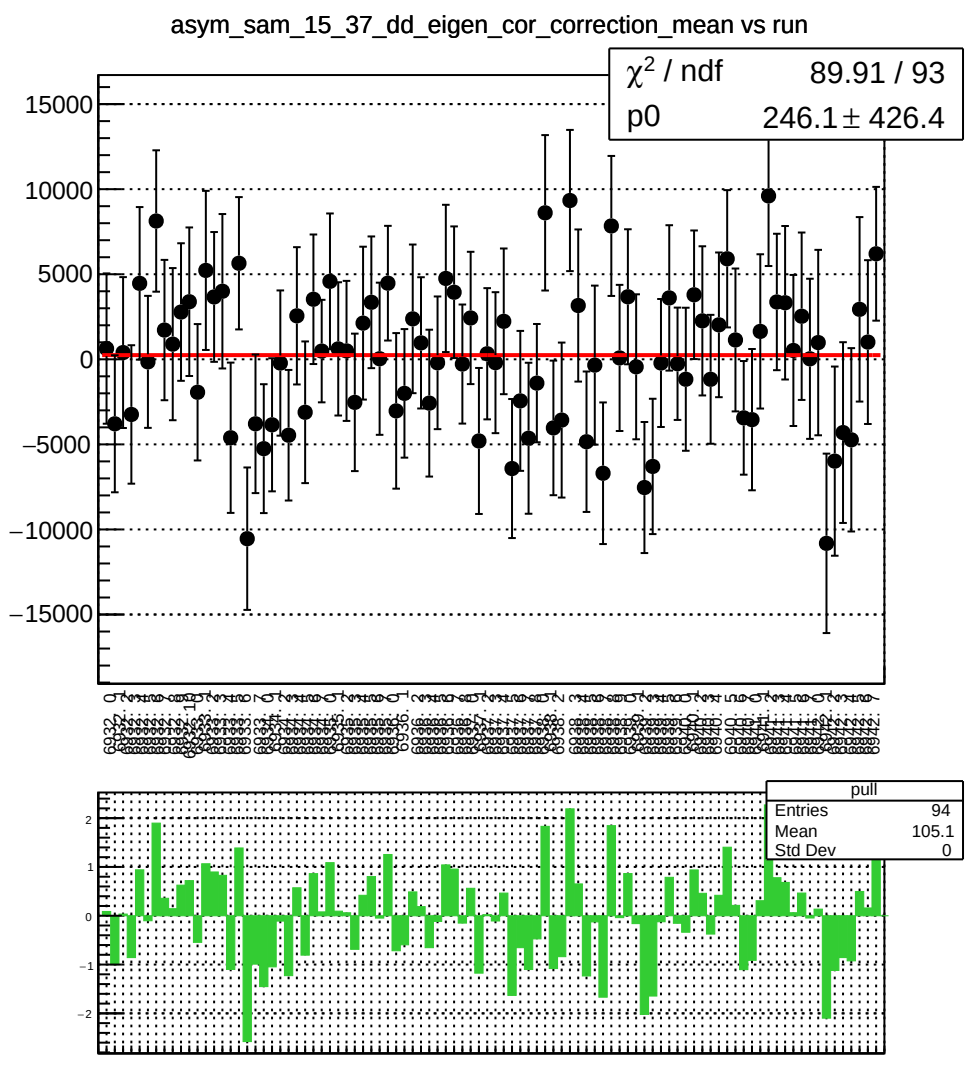

pull1D
Entries 94
Mean −0.004069
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

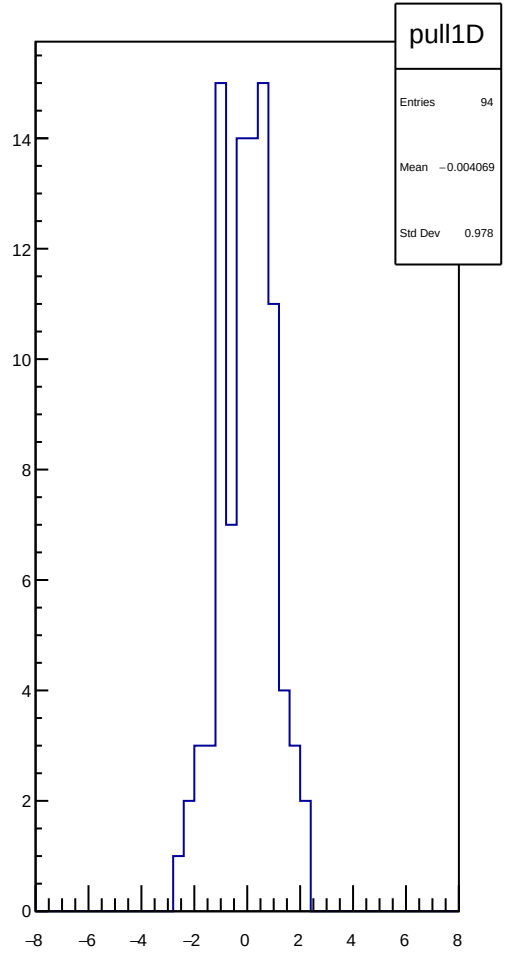

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 1.339e+04 / 93
p0 398.9 ± 0.3015
540
520
500
480
460
440
420
400
380
360
340

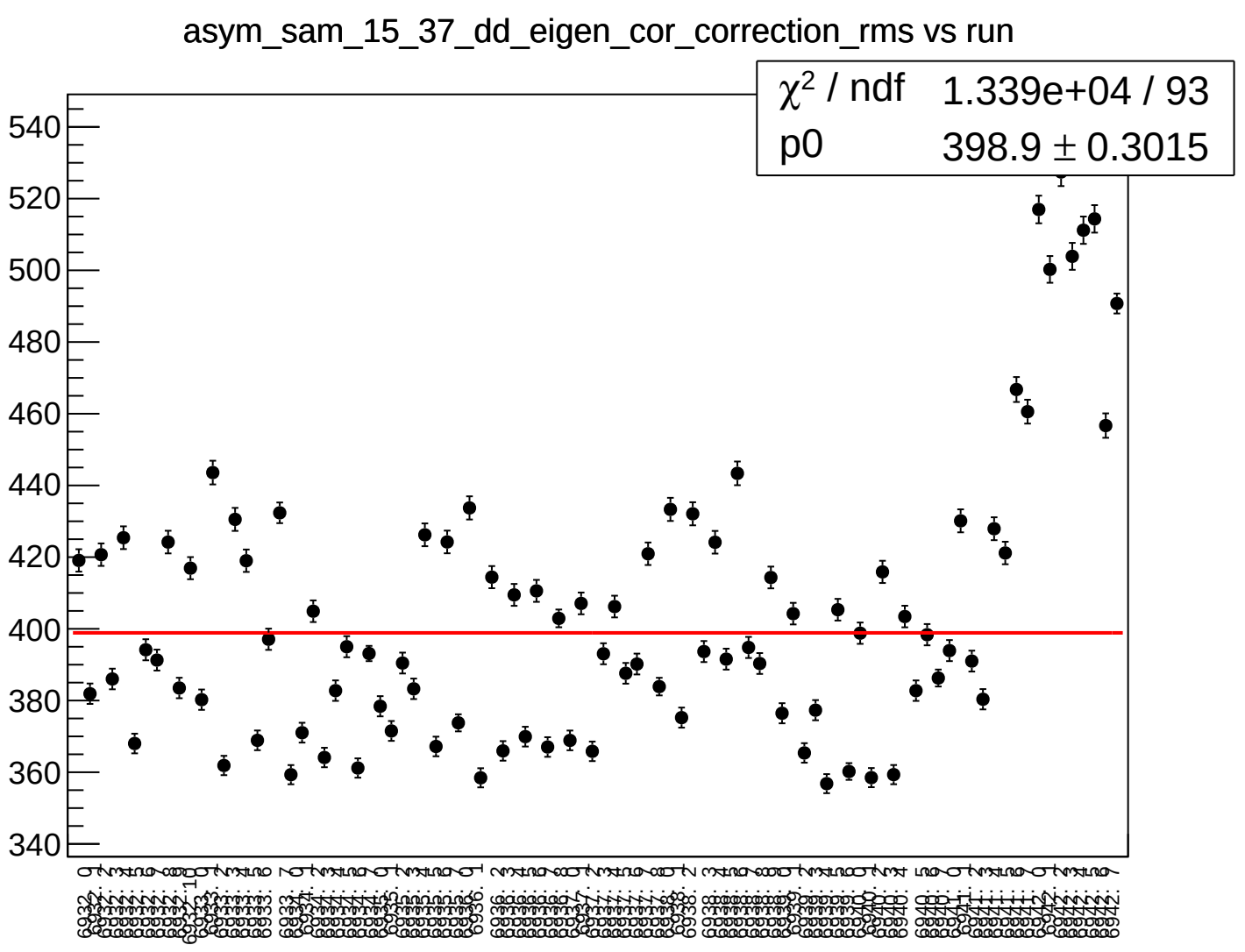

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 94.58 / 93
p0 4.321 ± 43.55
pull
Entries 94
Mean 3874
Std Dev 0

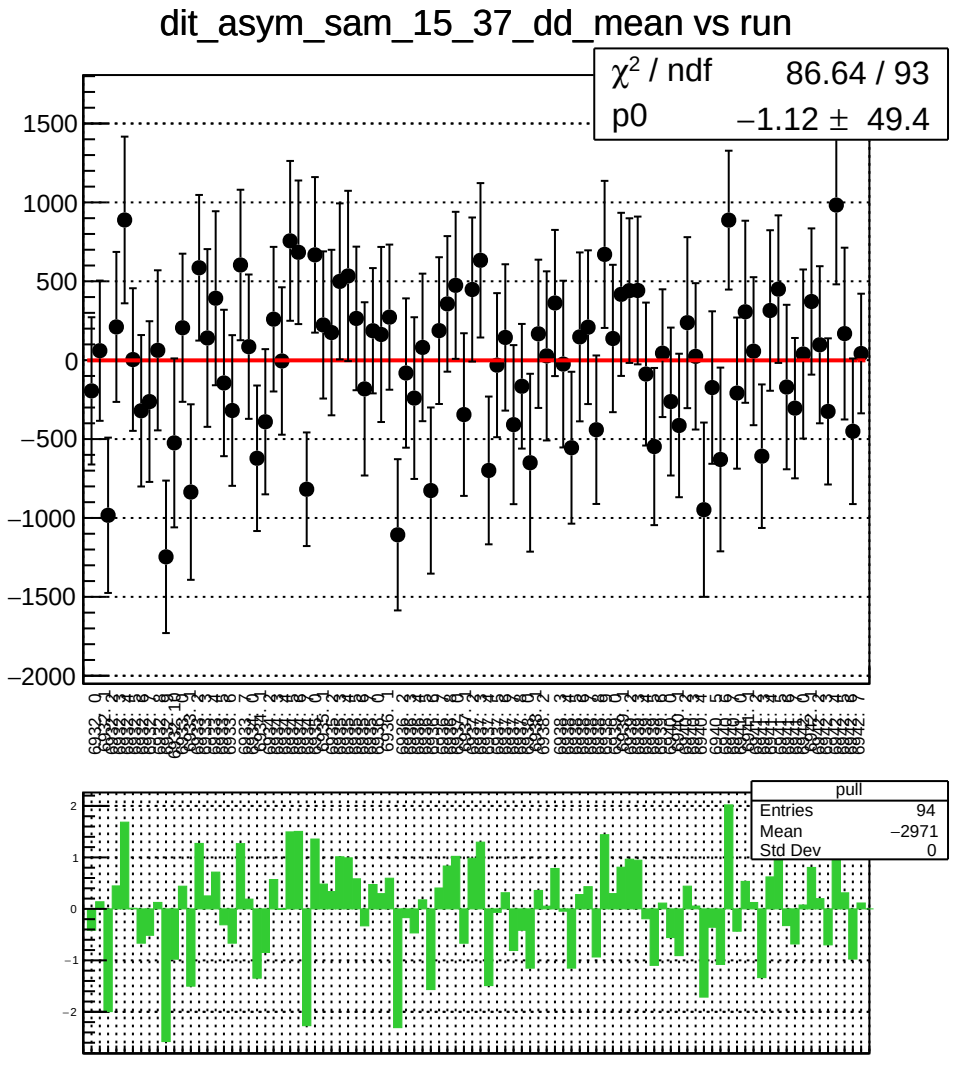

pull1D
Entries 94
Mean 0.001032
Std Dev 1.003

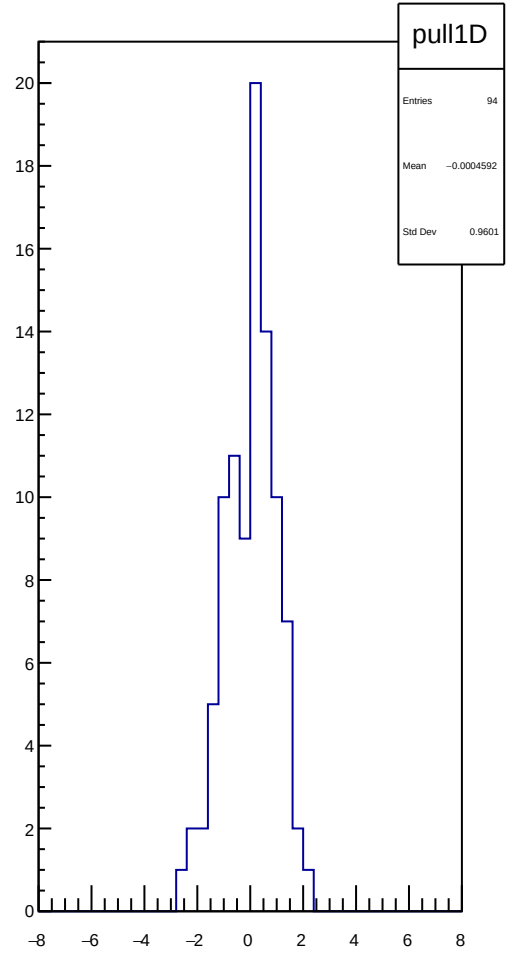

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 2404 / 93
p0 40.87 ± 0.03079
46
45
44
43
42
41
40
39
38

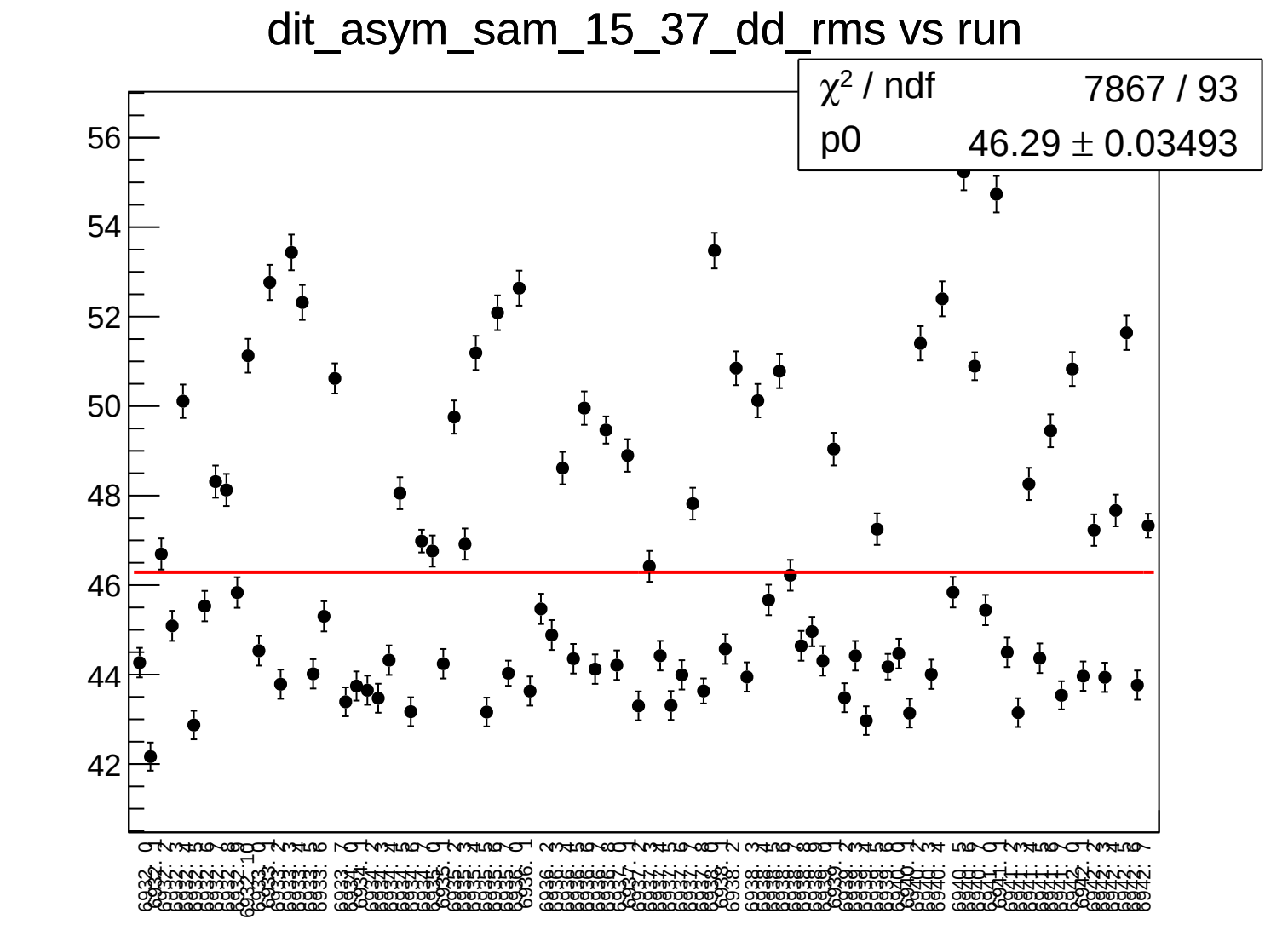

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.91 / 93
p0 246.1 ± 426.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 105.1
Std Dev 0
2
1
0
−1
−2

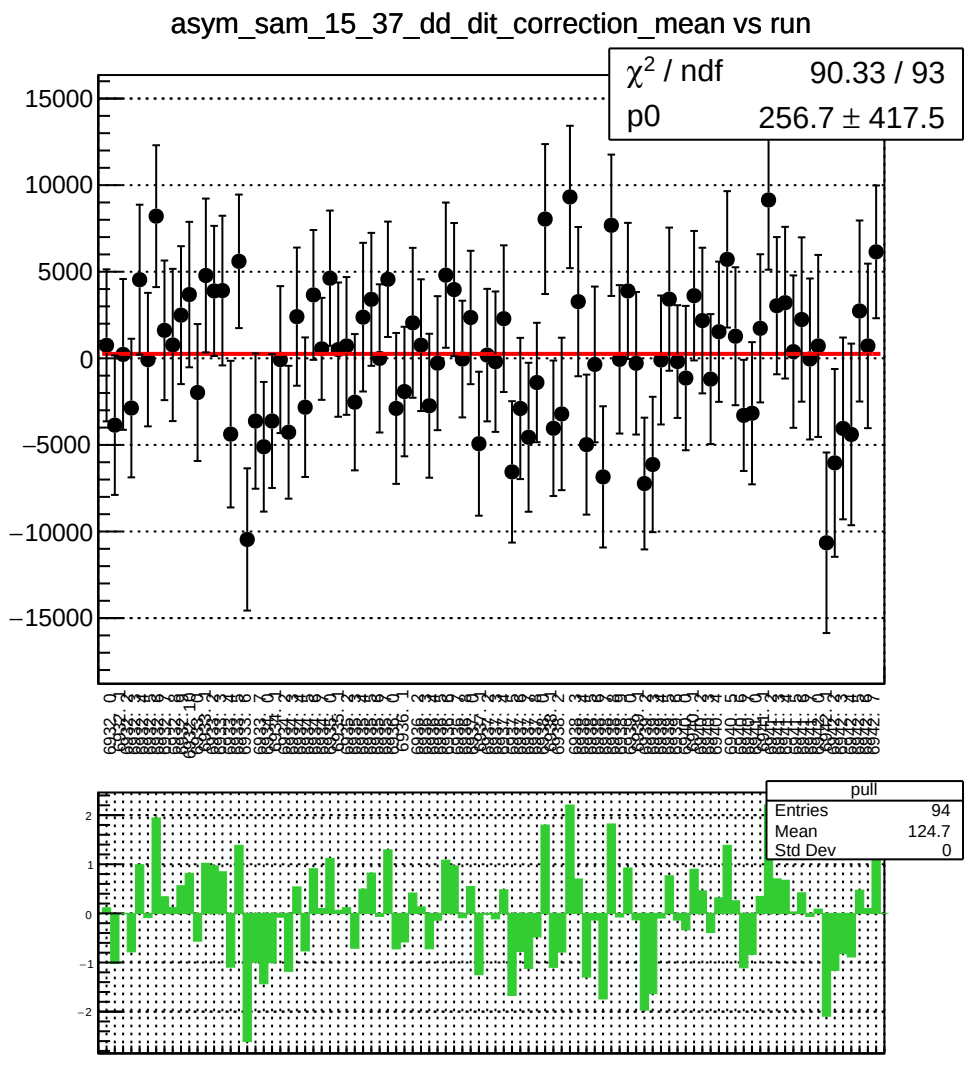

pull1D
Entries 94
Mean −0.004069
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

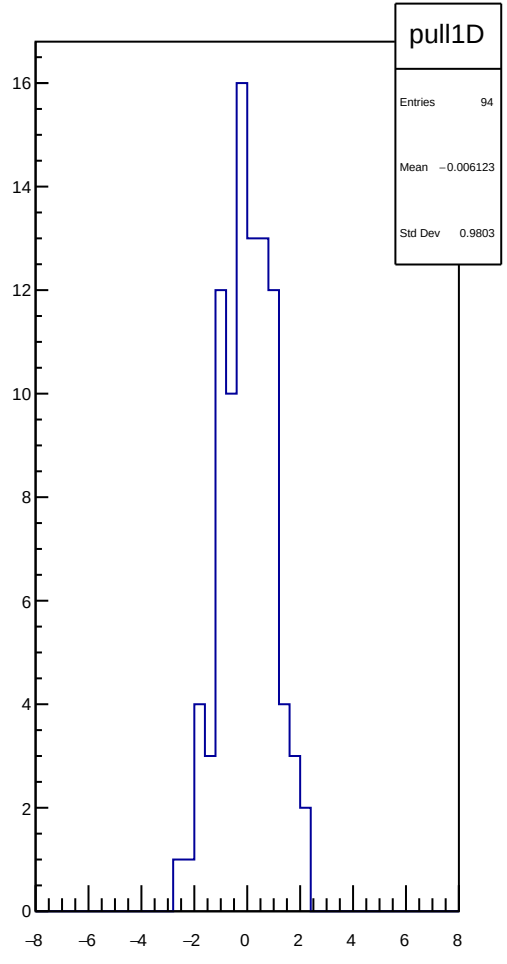

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.339e+04 / 93
p0 398.9 ± 0.3015
540
520
500
480
460
440
420
400
380
360
340

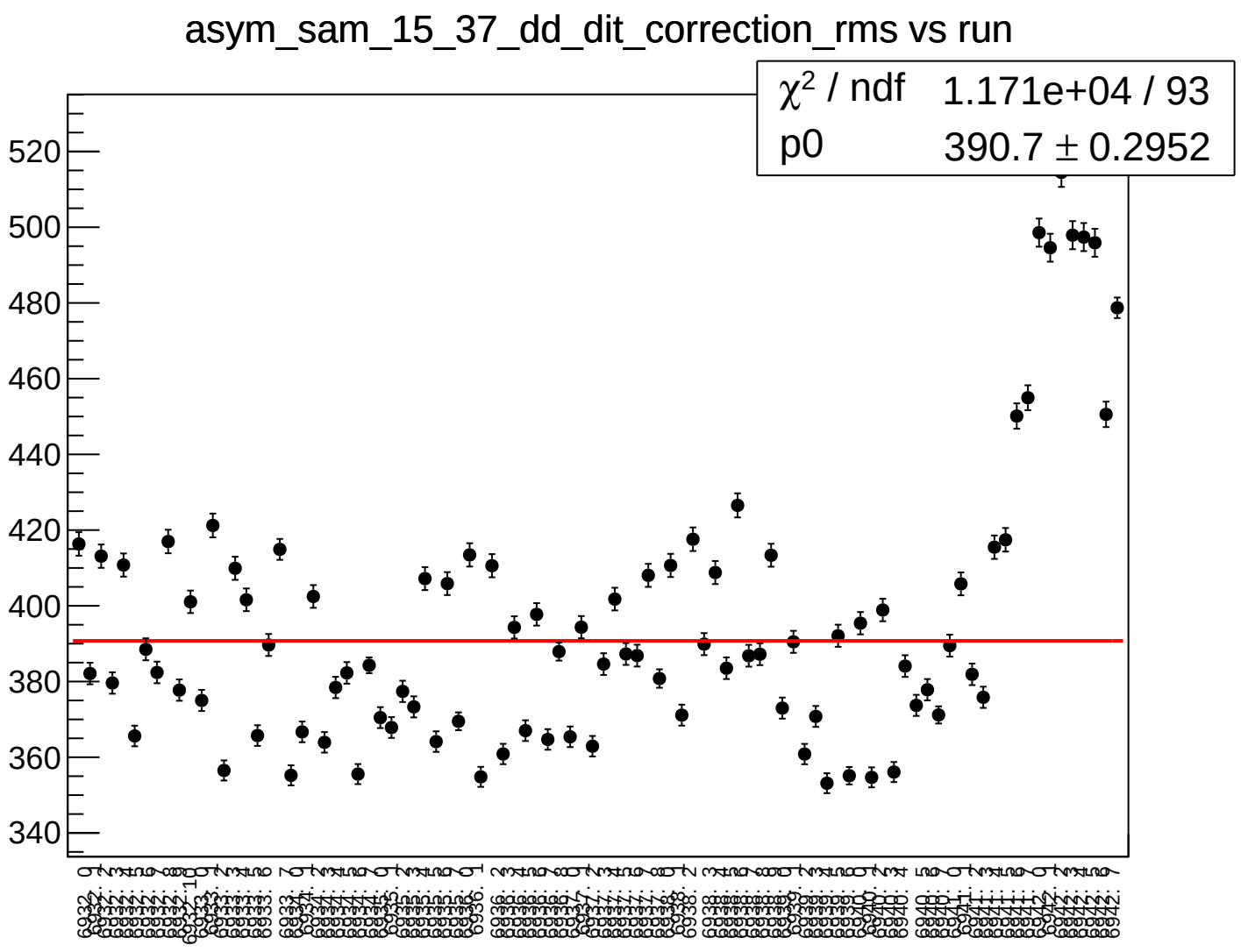

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.64 / 93
p0 −1.12 ± 49.4
pull
Entries 94
Mean −2971
Std Dev 0

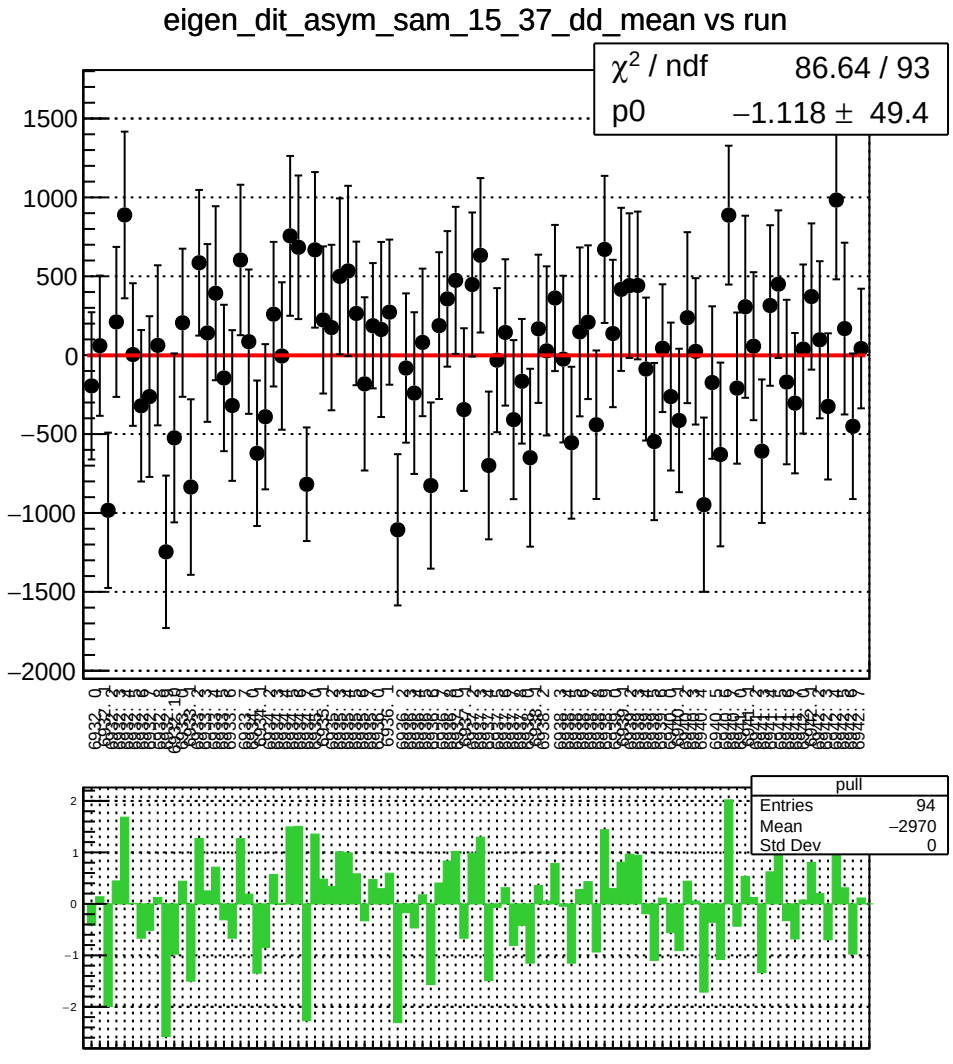

pull1D
Entries 94
Mean −0.0004592
Std Dev 0.9601

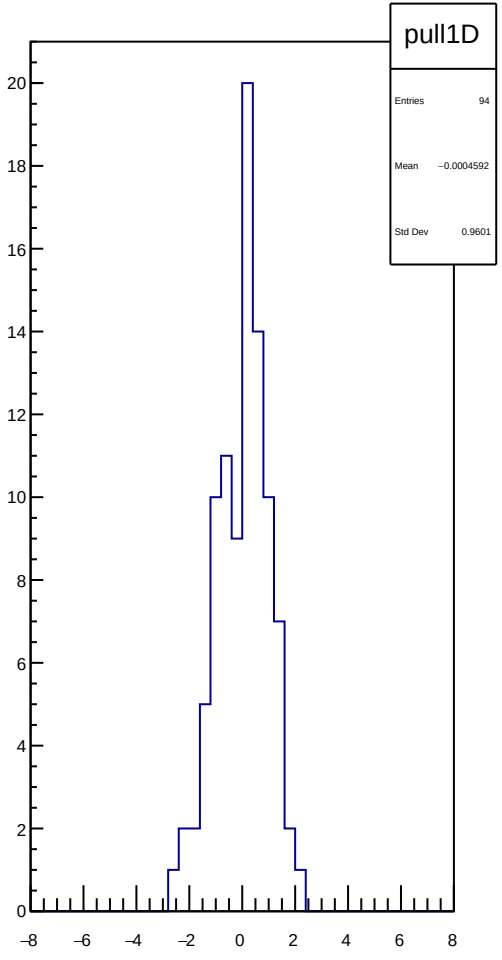

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 7867 / 93
p0 46.29 ± 0.03493
56
54
52
50
48
46
44
42

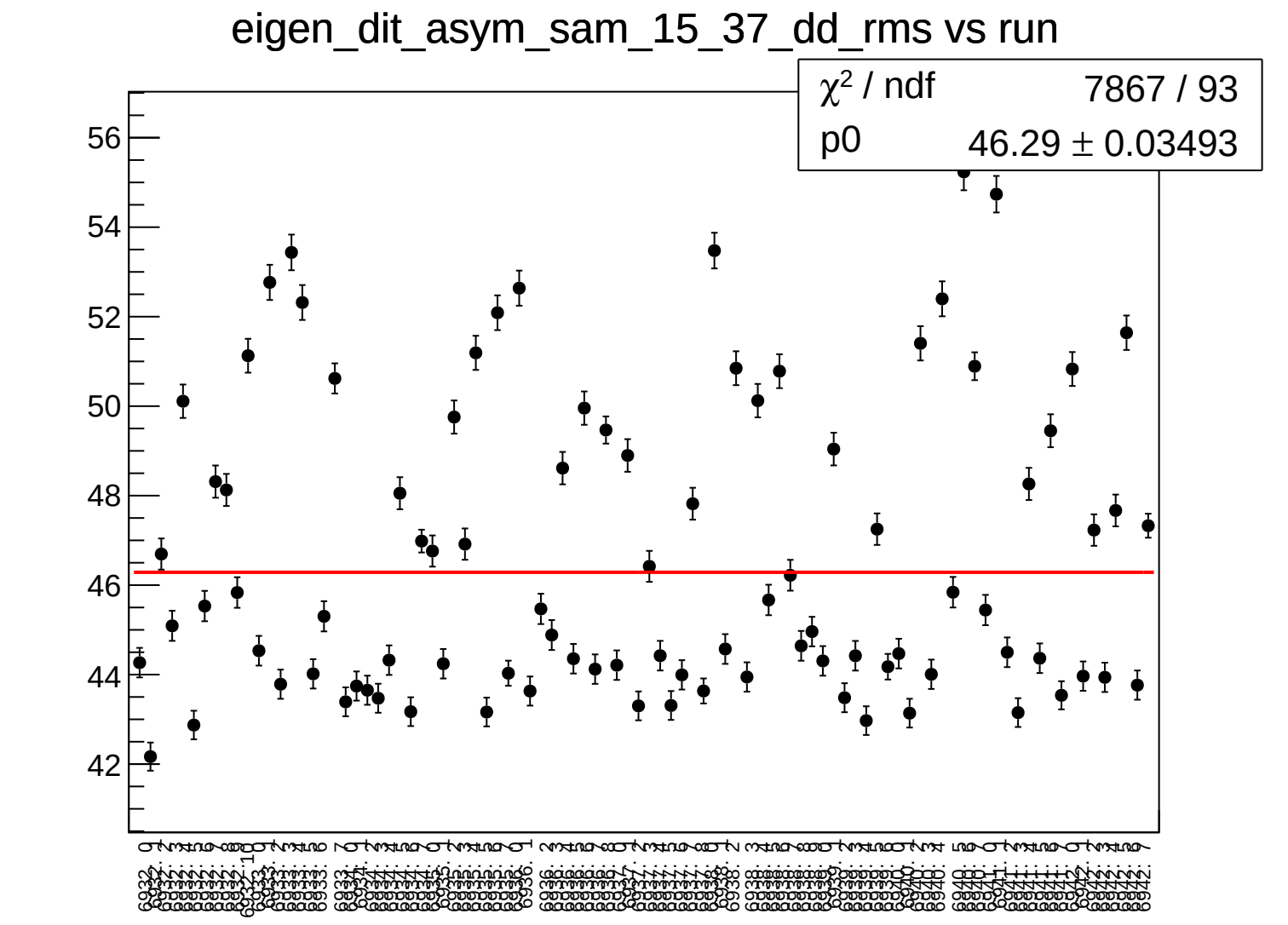

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 90.33 / 93
p0 256.7 ± 417.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 124.7
Std Dev 0
2
1
0
−1
−2

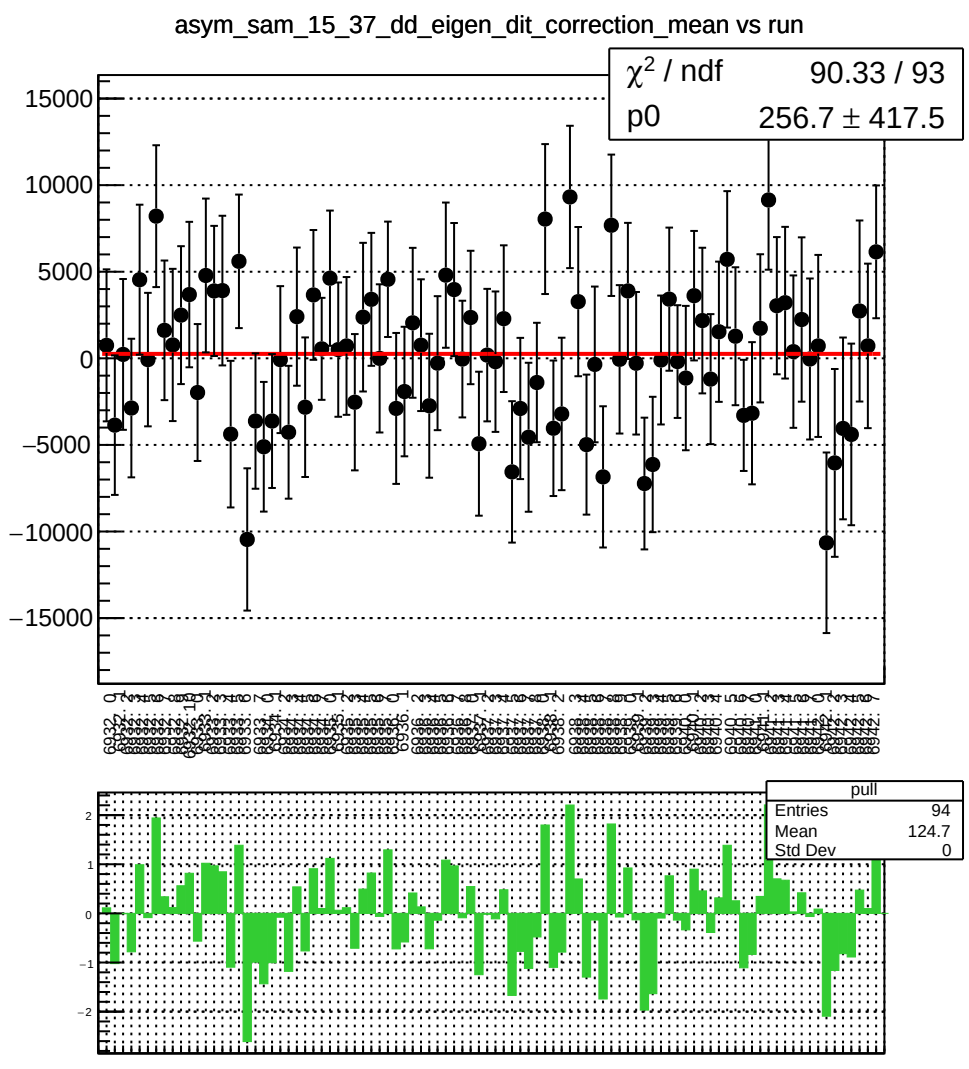

pull1D
Entries 94
Mean −0.006123
Std Dev 0.9803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

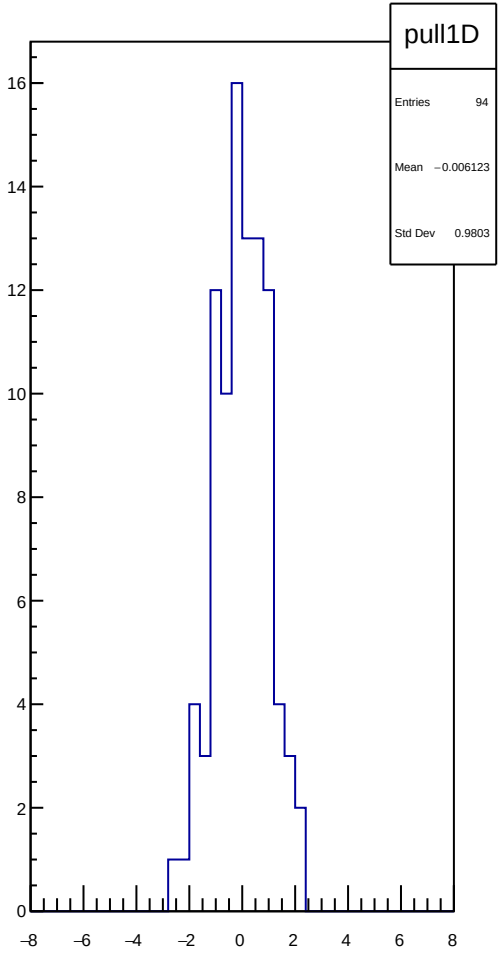

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 93
p0 390.7 ± 0.2952
520
500
480
460
440
420
400
380
360
340

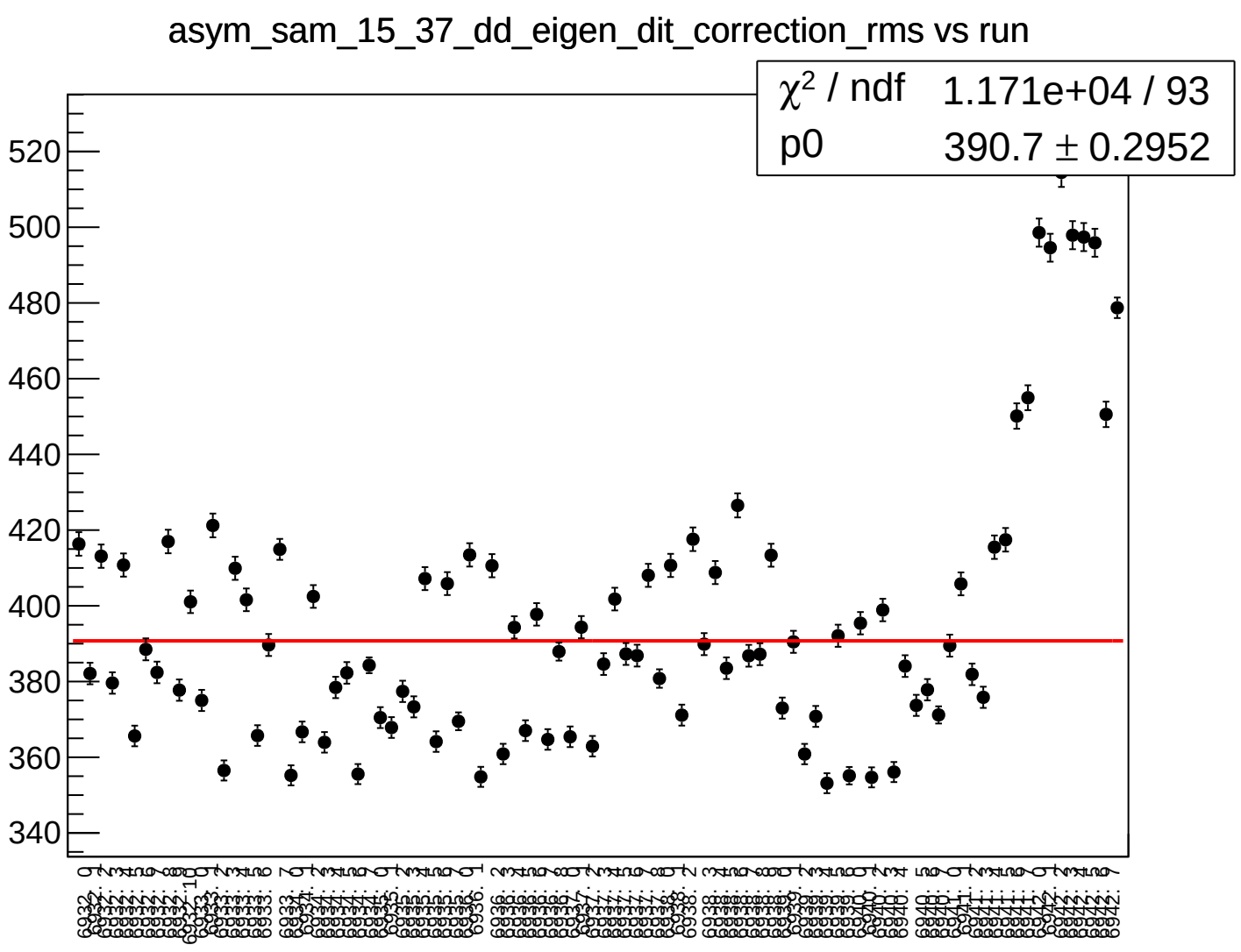

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 86.64 / 93
p0 −1.118 ± 49.4
pull
Entries 94
Mean −2970
Std Dev 0

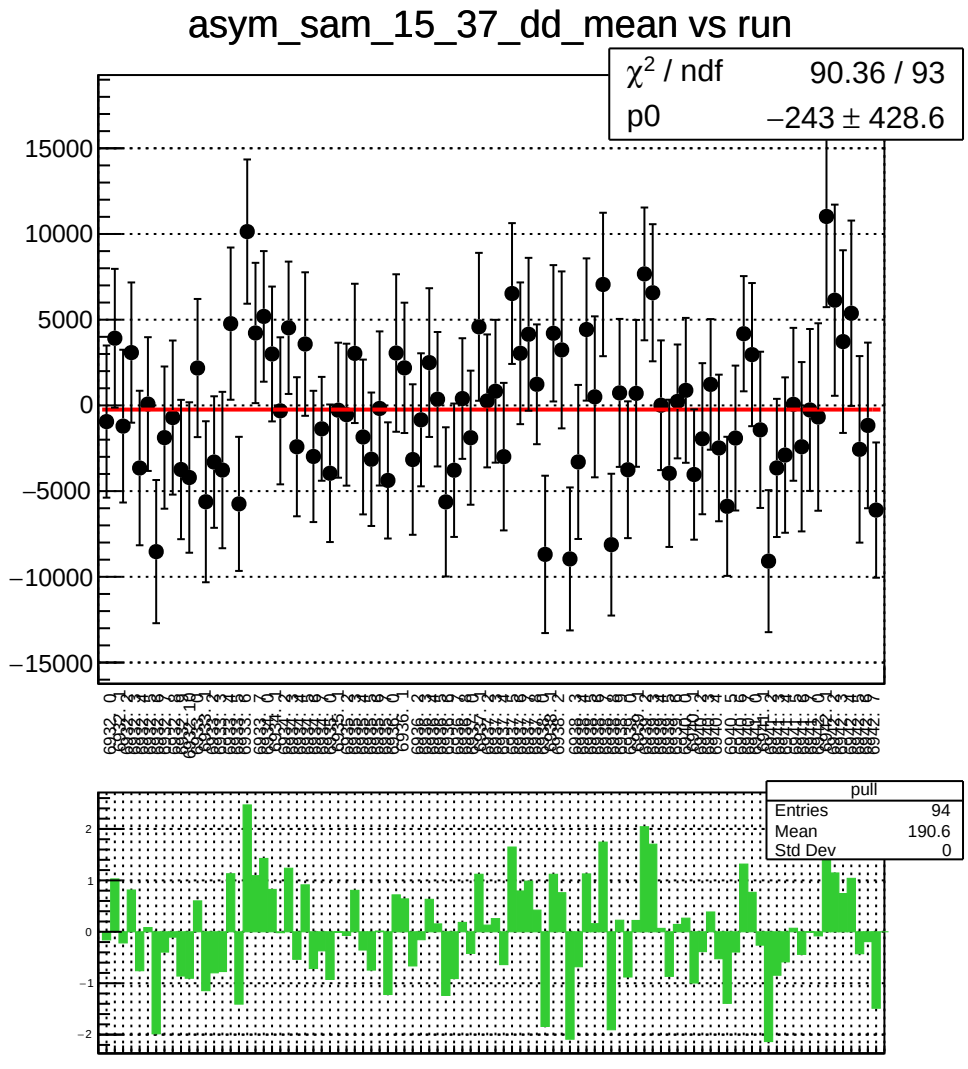

pull1D
Entries 94
Mean −0.0004592
Std Dev 0.9601

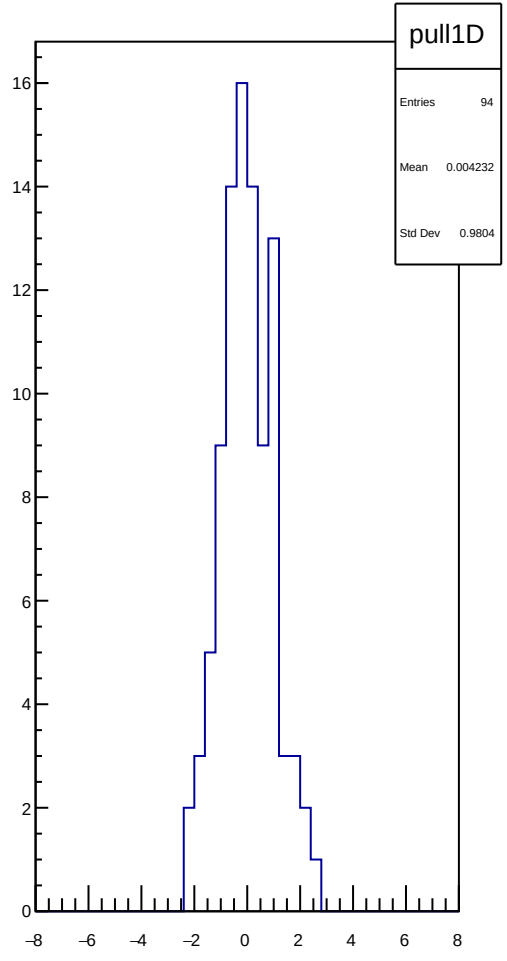

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 7867 / 93
p0 46.29 ± 0.03493
56
54
52
50
48
46
44
42


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 90.33 / 93
p0 256.7 ± 417.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 124.7
Std Dev 0
2
1
0
−1
−2

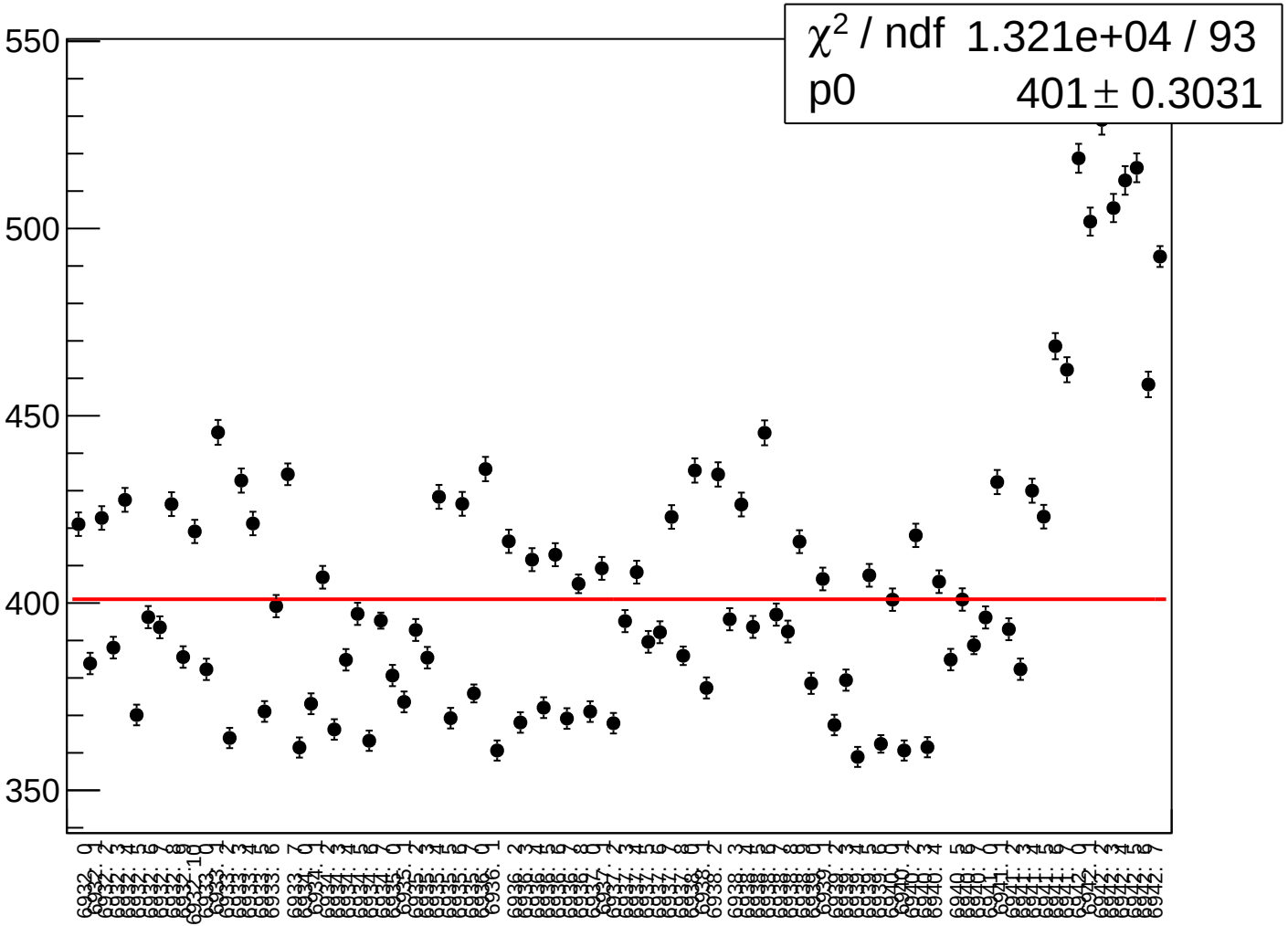

pull1D
Entries 94
Mean −0.006123
Std Dev 0.9803
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

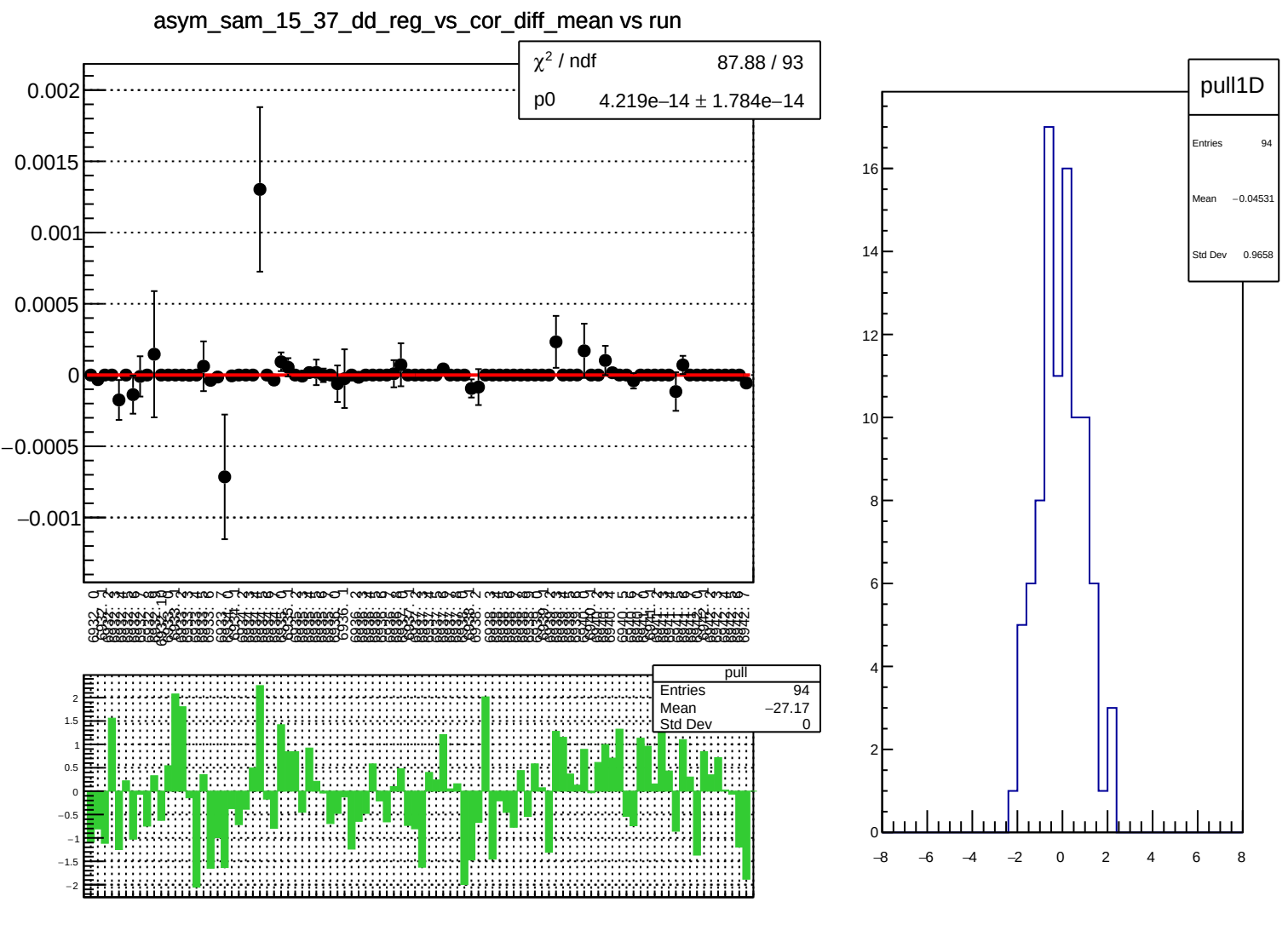

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.171e+04 / 93
p0 390.7 ± 0.2952
520
500
480
460
440
420
400
380
360
340

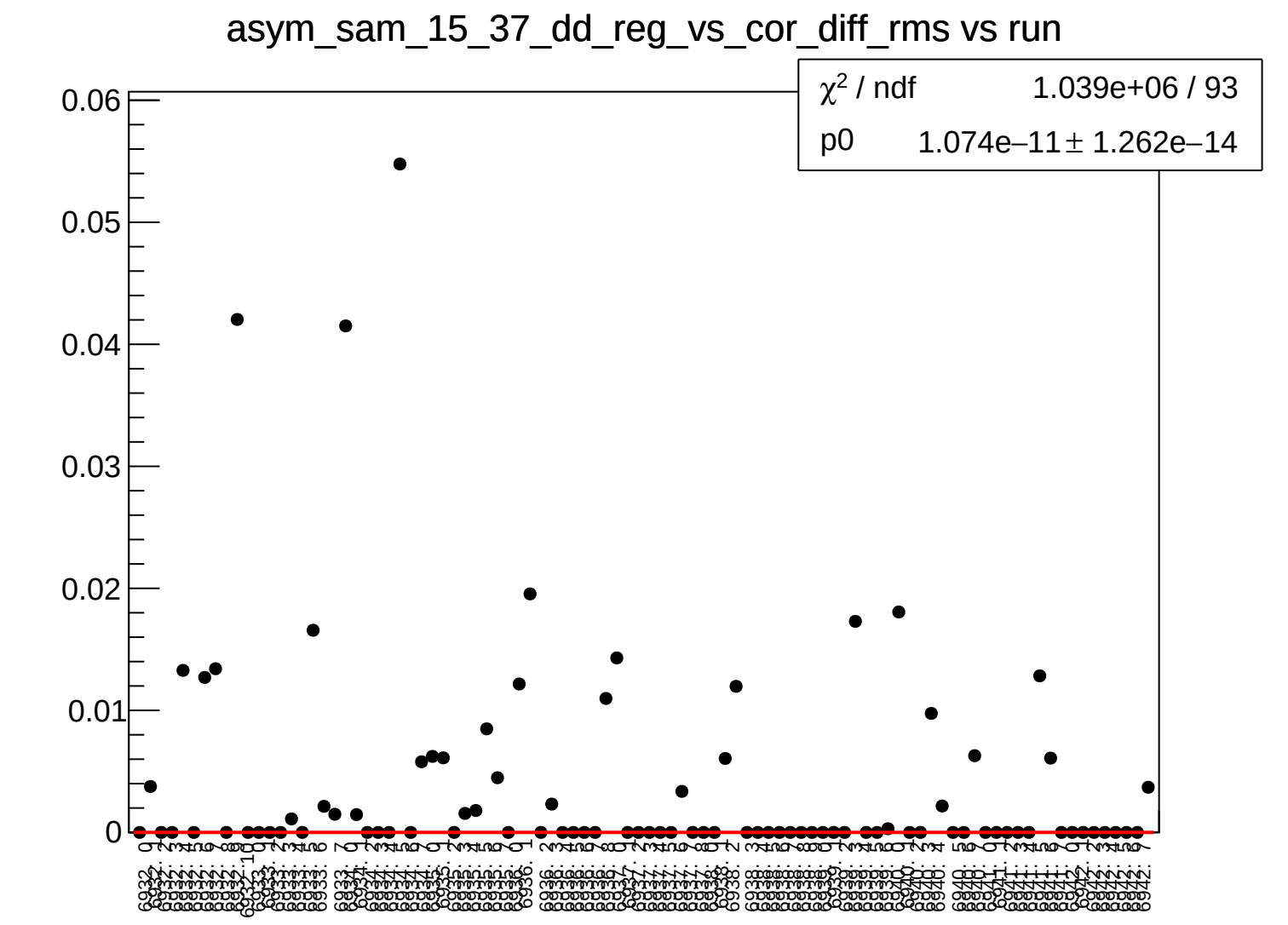

asym_sam_15_37_dd_mean vs run
χ² / ndf 90.36 / 93
p0 −243 ± 428.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 190.6
Std Dev 0
2
1
0
−1
−2

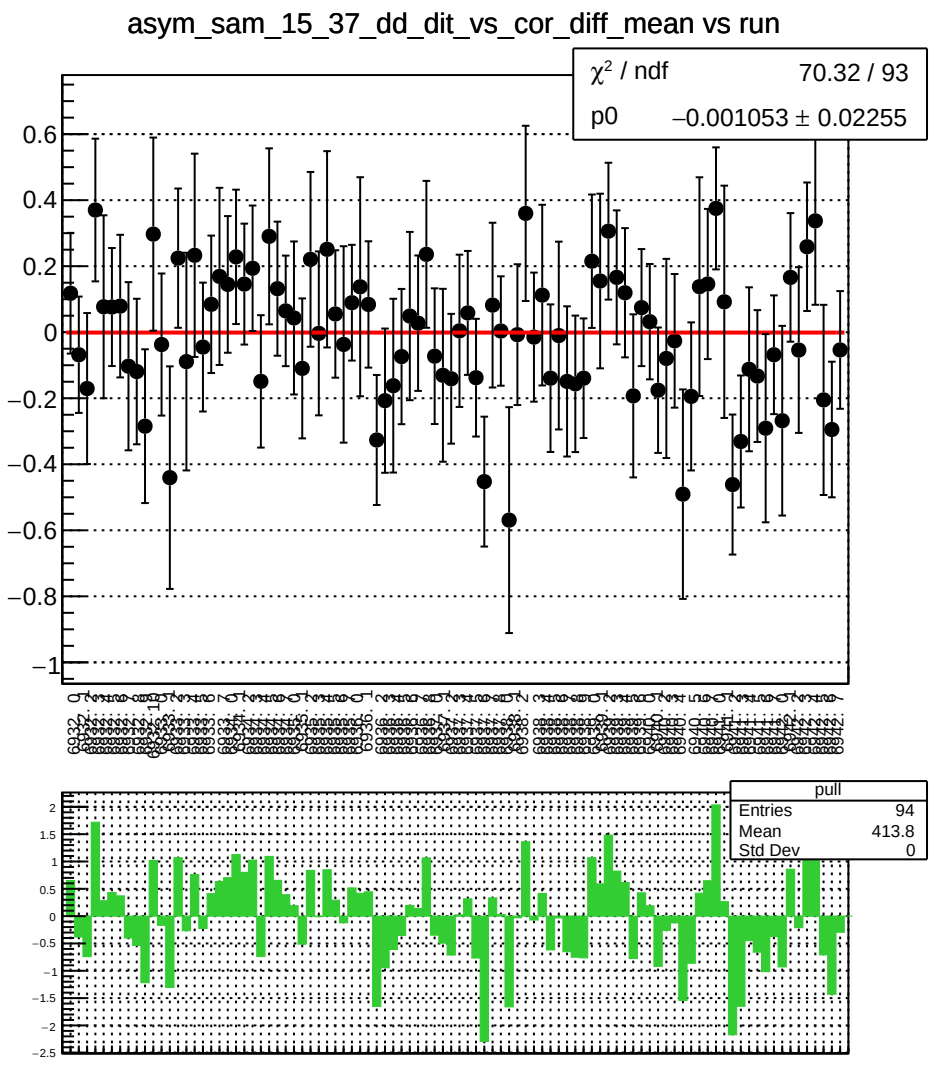

pull1D
Entries 94
Mean 0.004232
Std Dev 0.9804
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

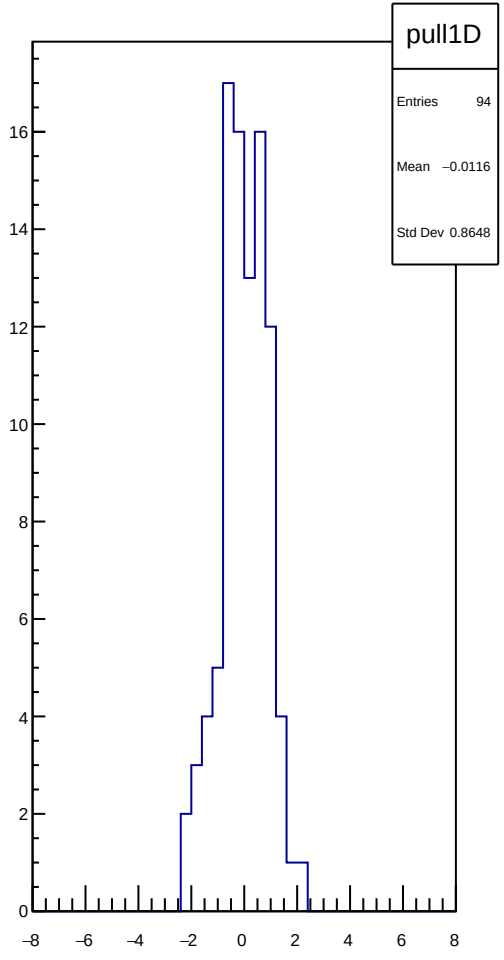
asym_sam_15_37_dd_rms vs run

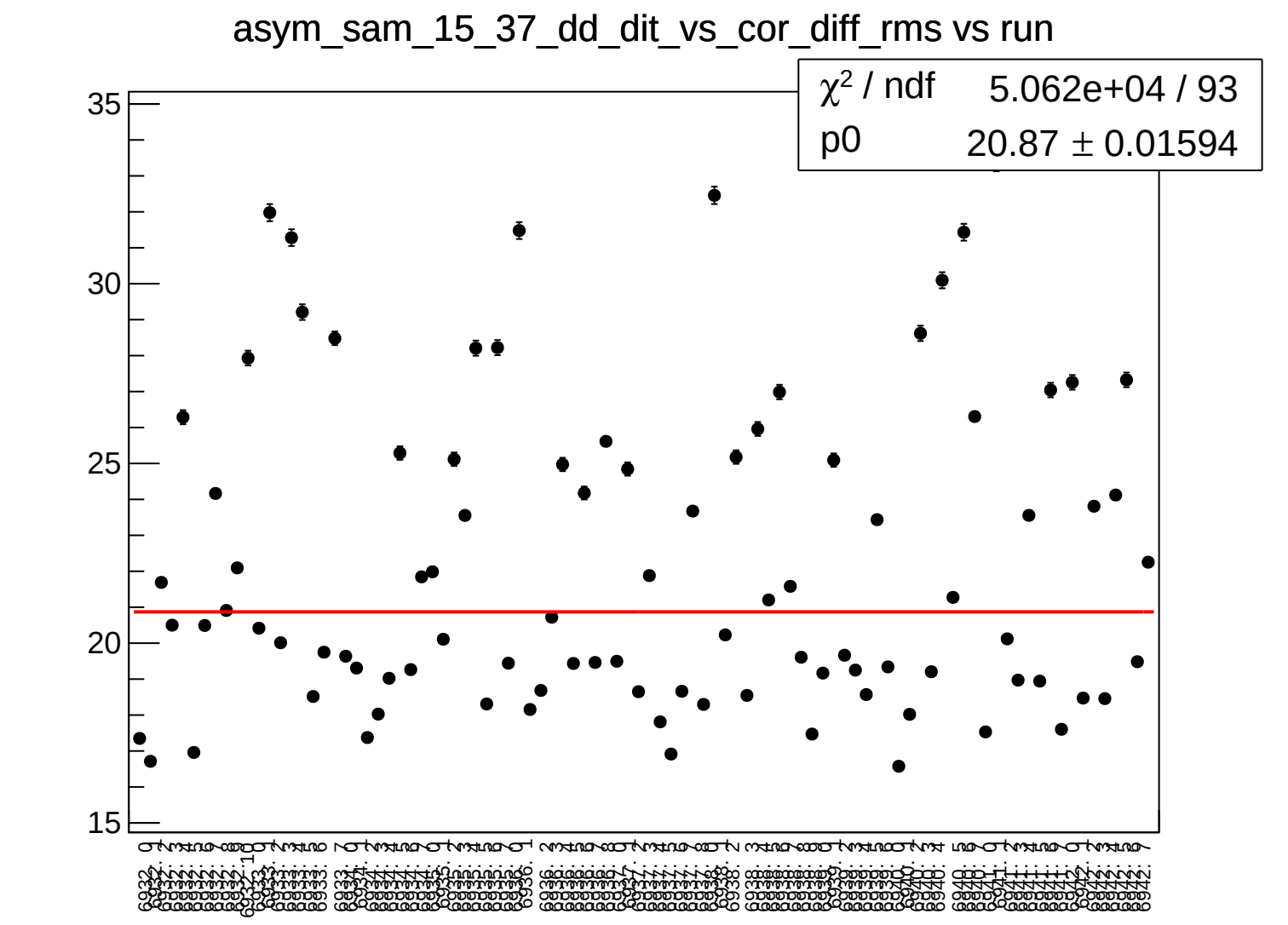


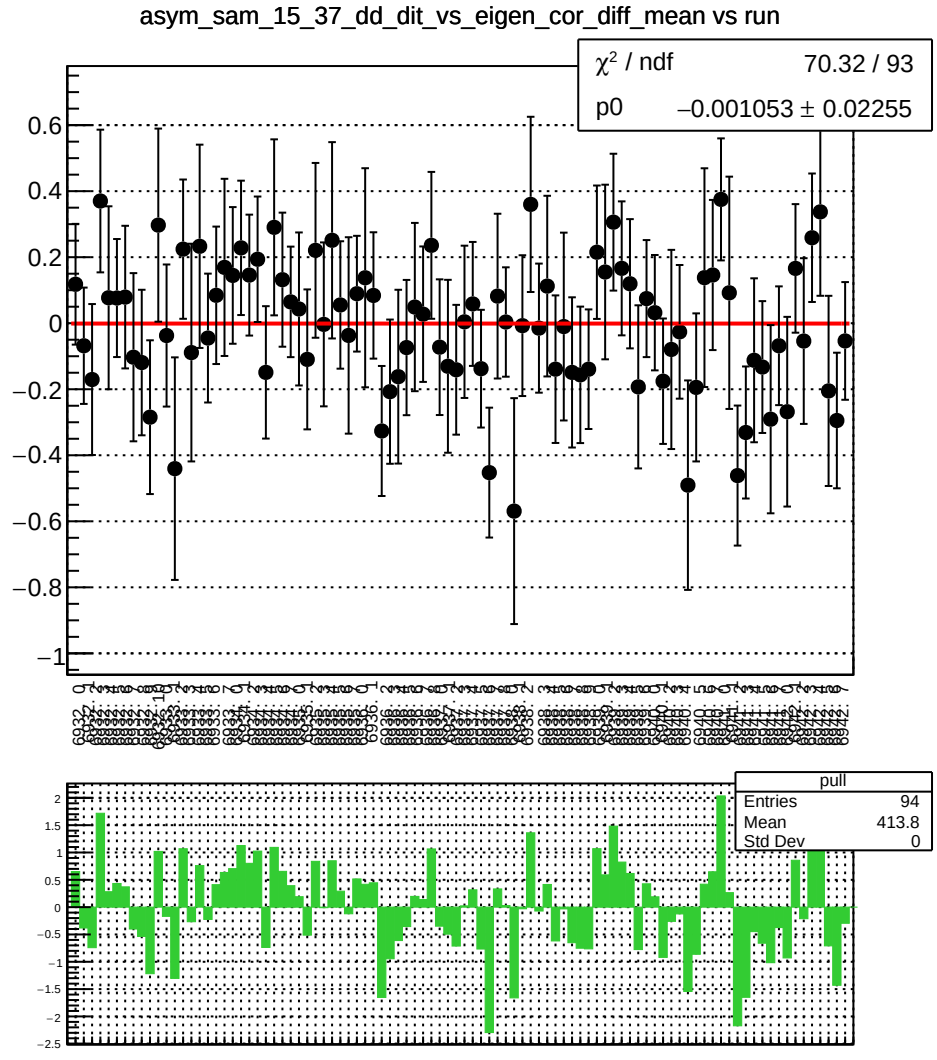

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 93
p0 4.219e−14 ± 1.784e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean −27.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.04531
Std Dev 0.9658
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

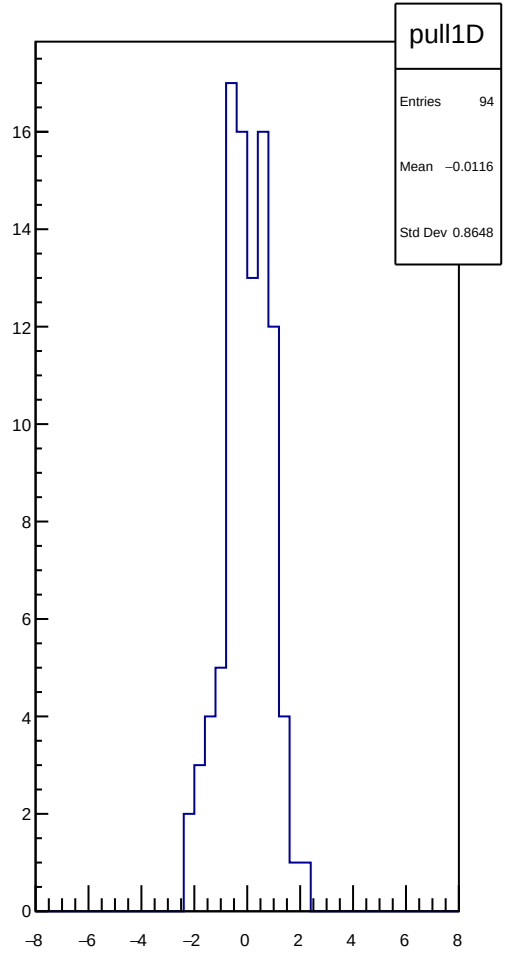

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.039e+06 / 93
p0 1.074e−11 ± 1.262e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

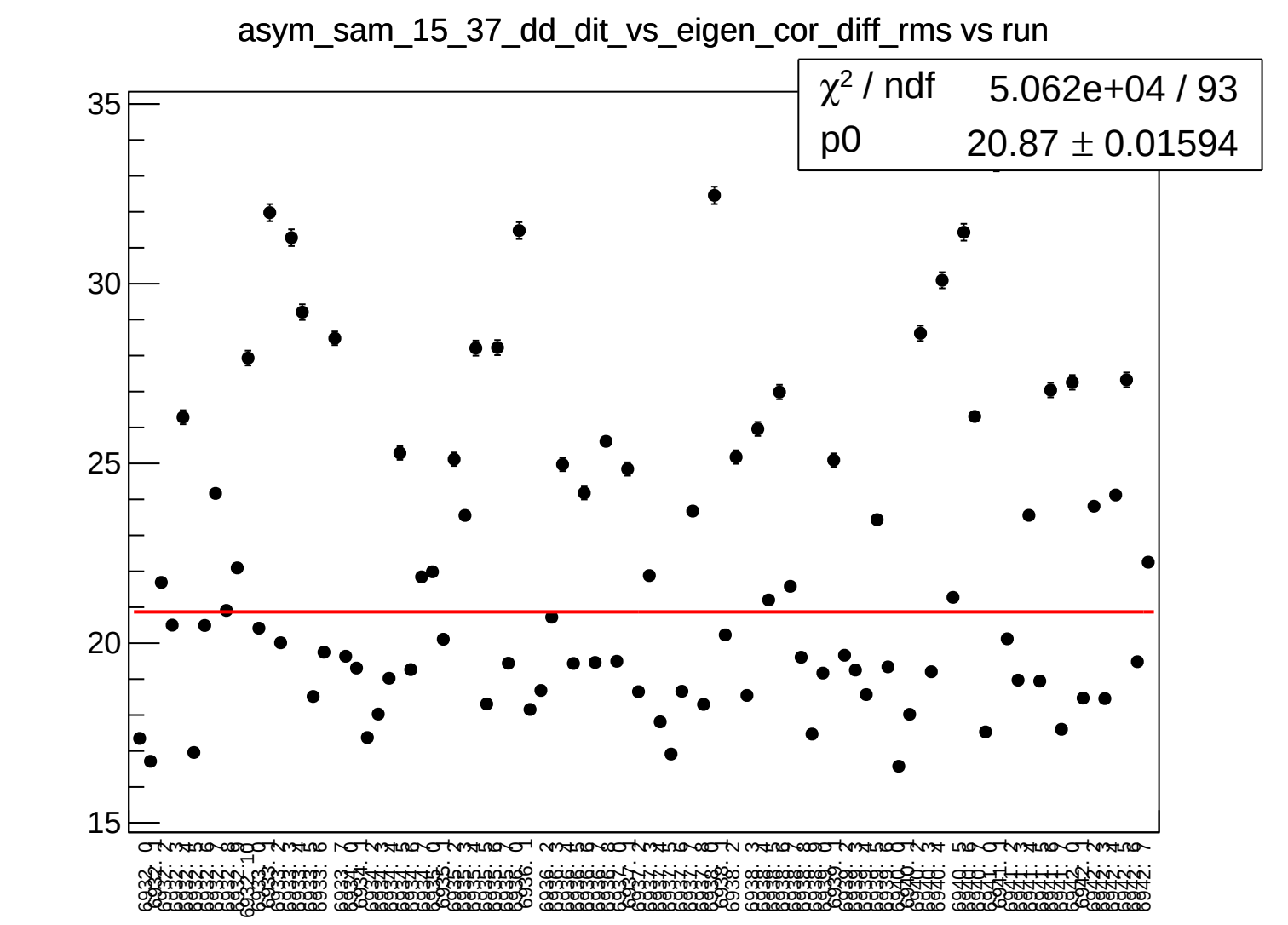

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 70.32 / 93
p0 −0.001053 ± 0.02255
pull
Entries 94
Mean 413.8
Std Dev 0

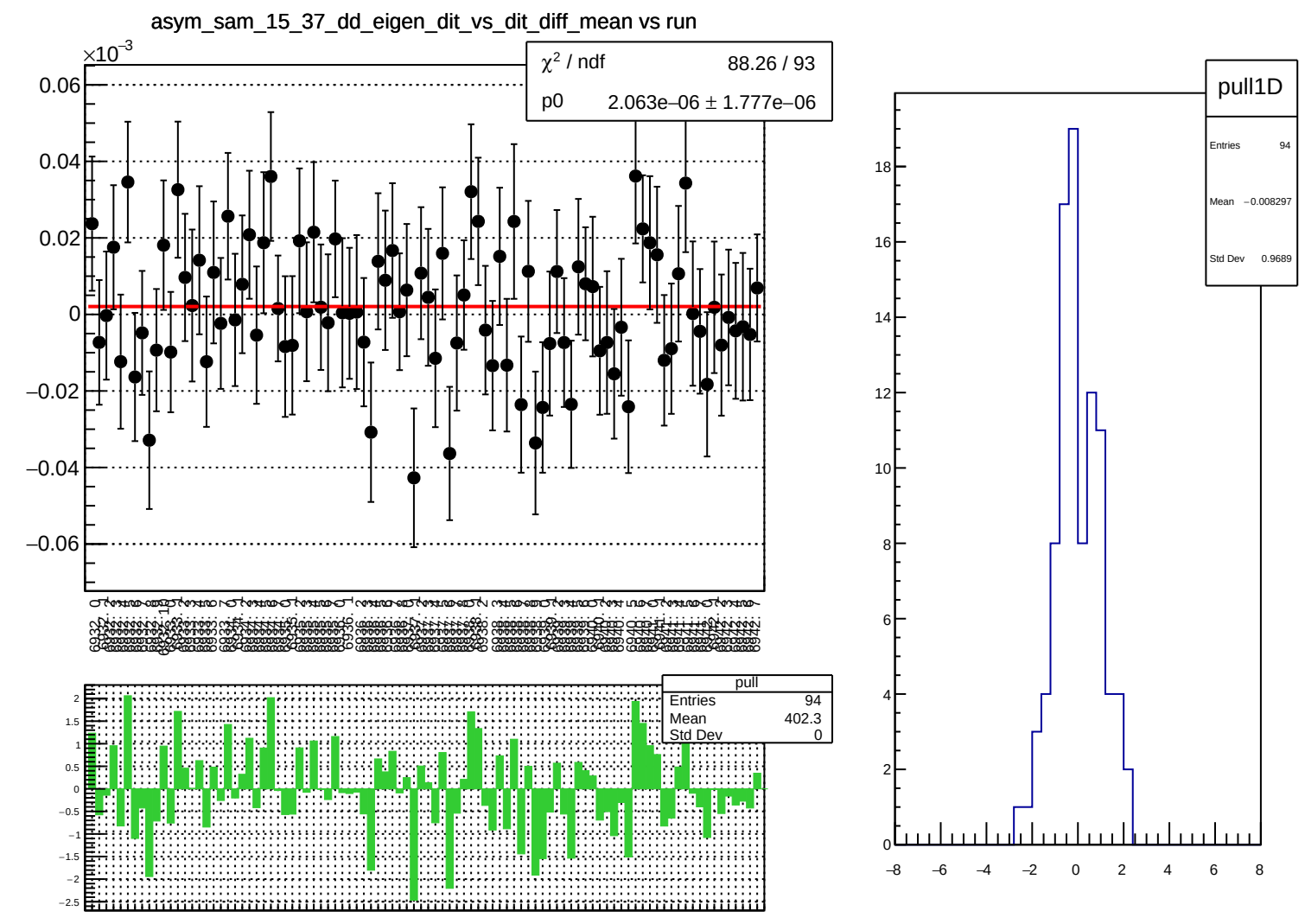

pull1D
Entries 94
Mean −0.0116
Std Dev 0.8648

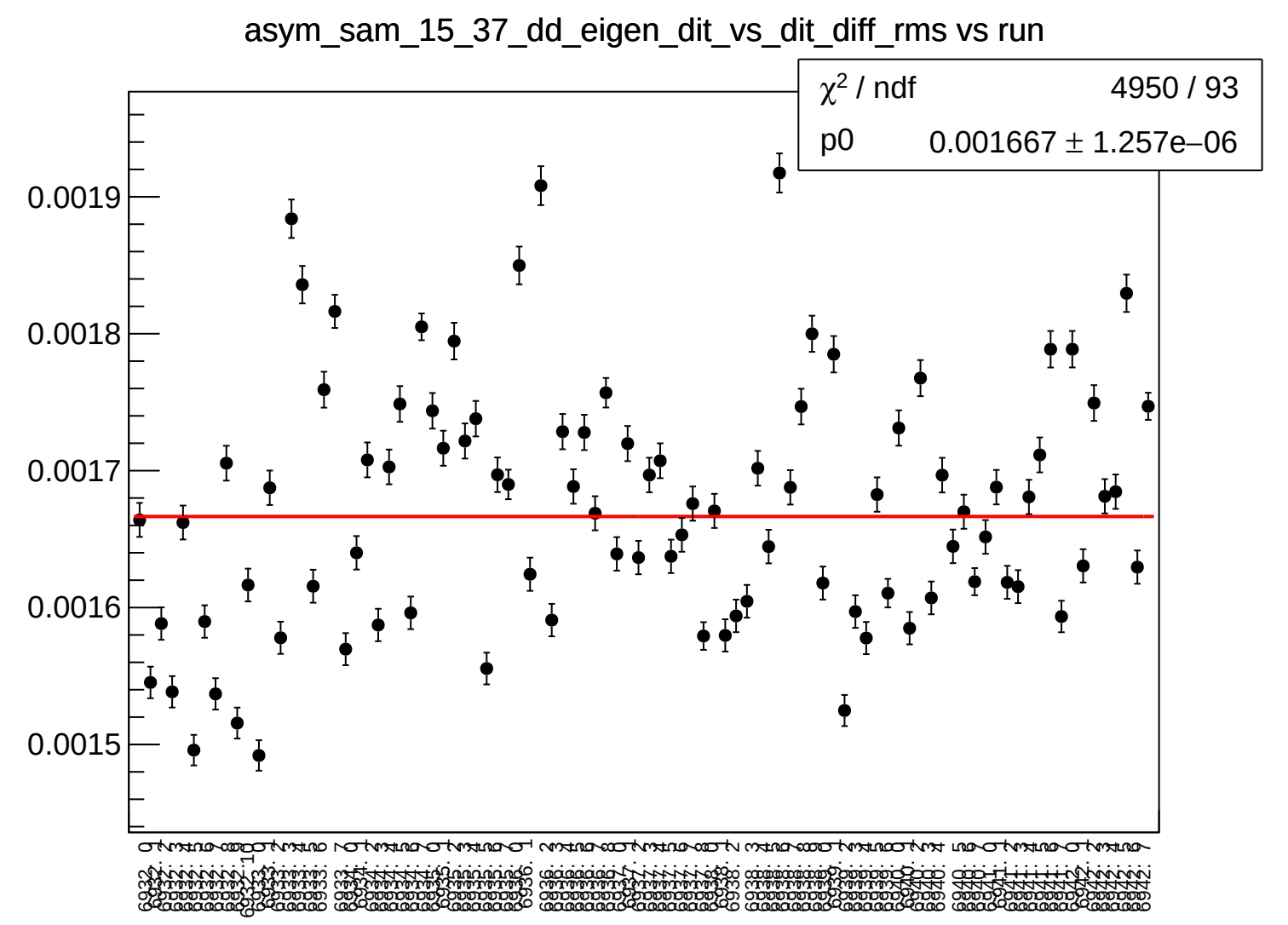

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 93
p0 20.87 ± 0.01594
35
30
25
20
15

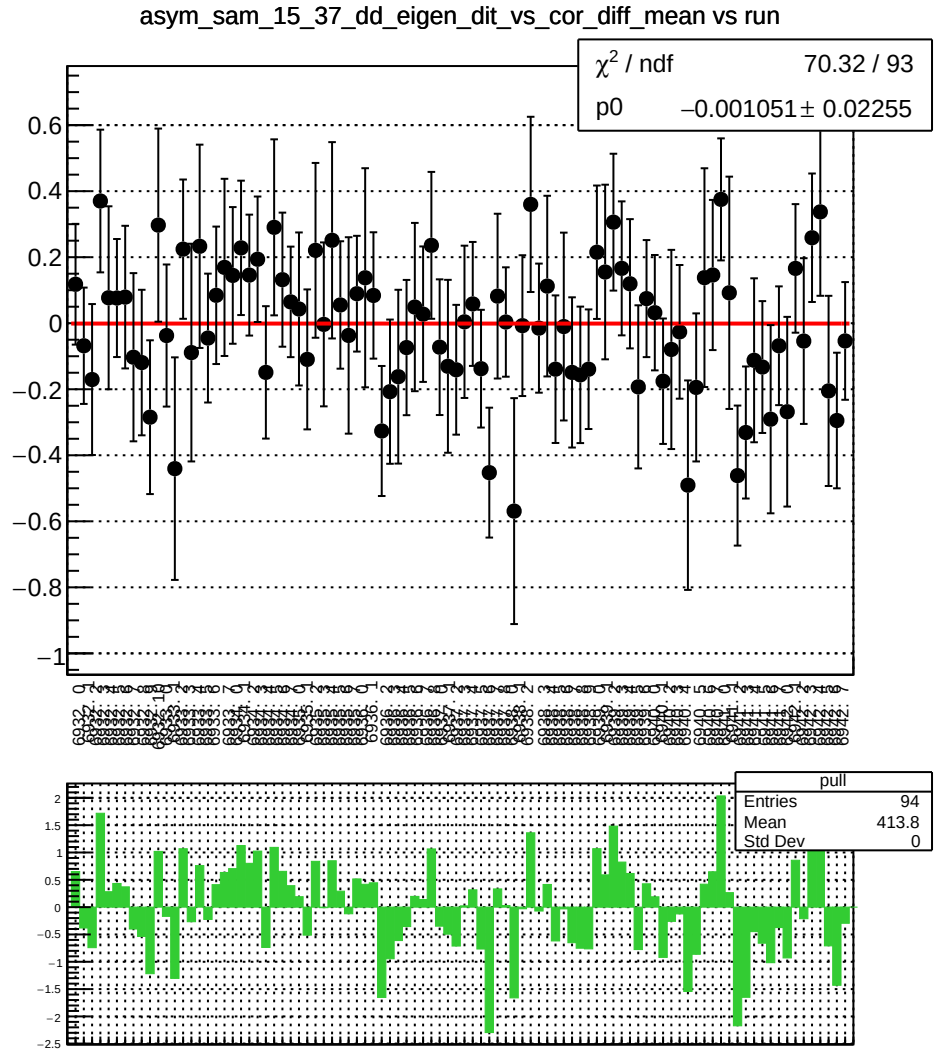

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.32 / 93
p0 −0.001053 ± 0.02255
pull
Entries 94
Mean 413.8
Std Dev 0

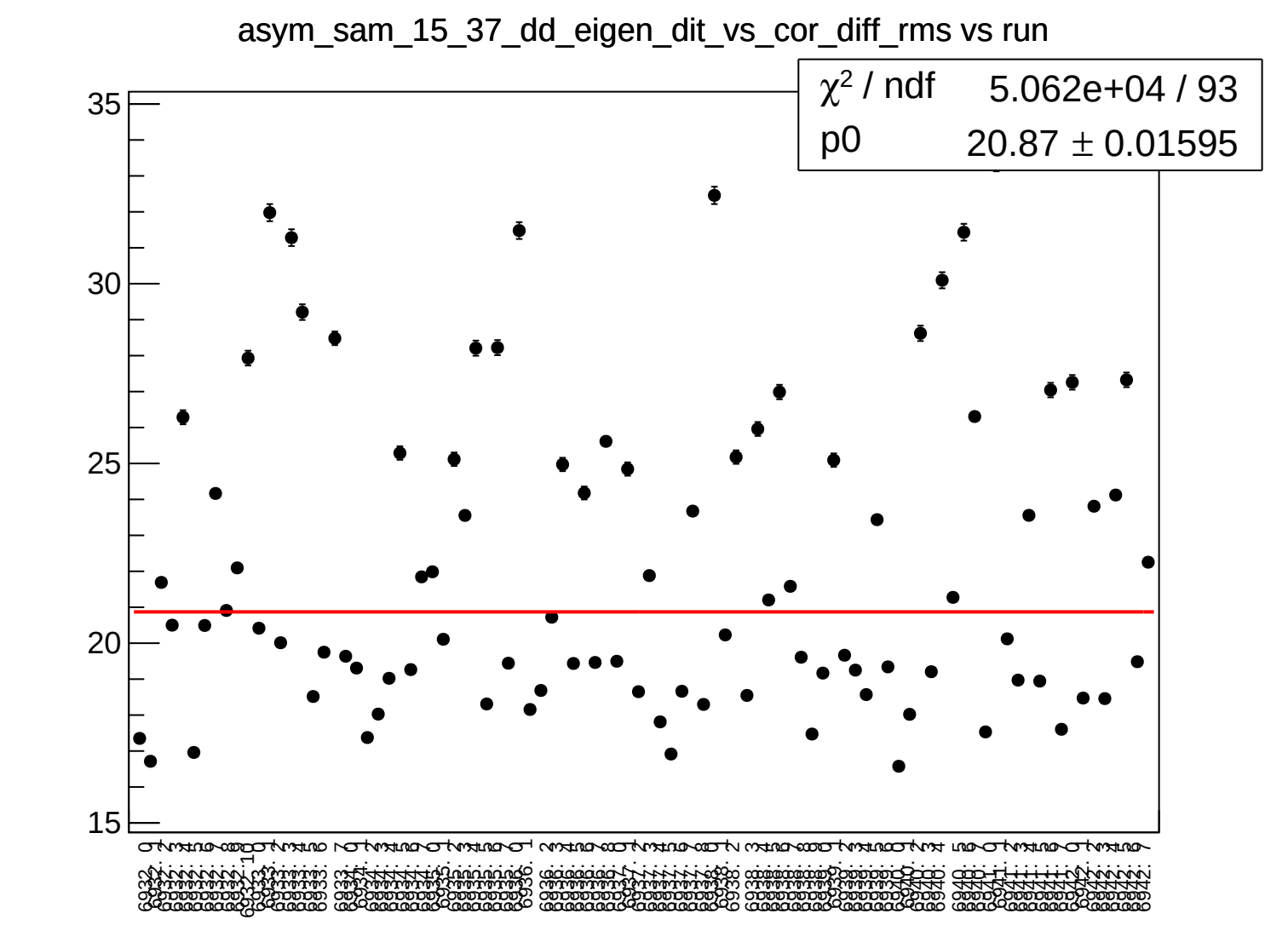

pull1D
Entries 94
Mean −0.0116
Std Dev 0.8648

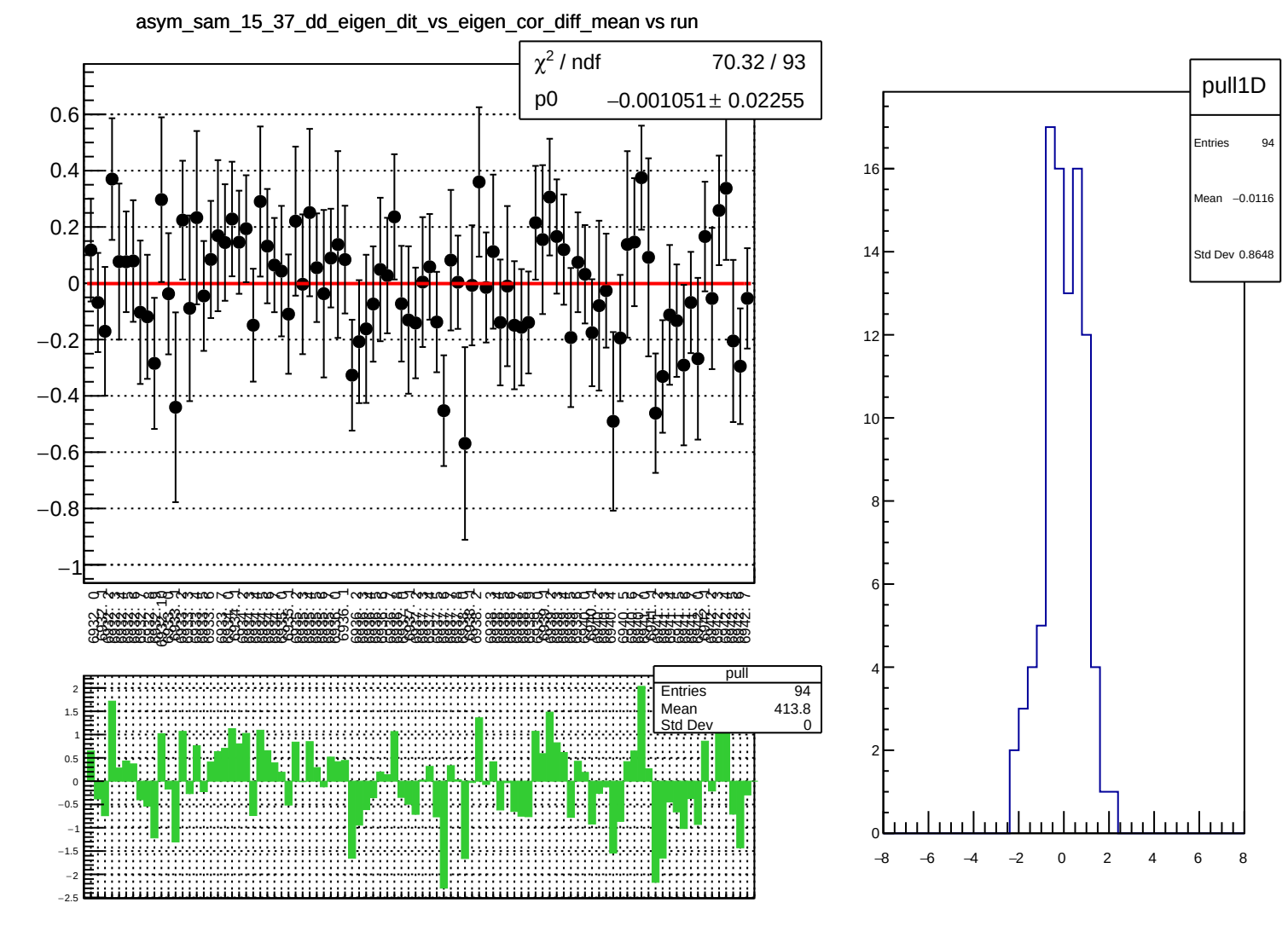

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 93
p0 20.87 ± 0.01594
35
30
25
20
15

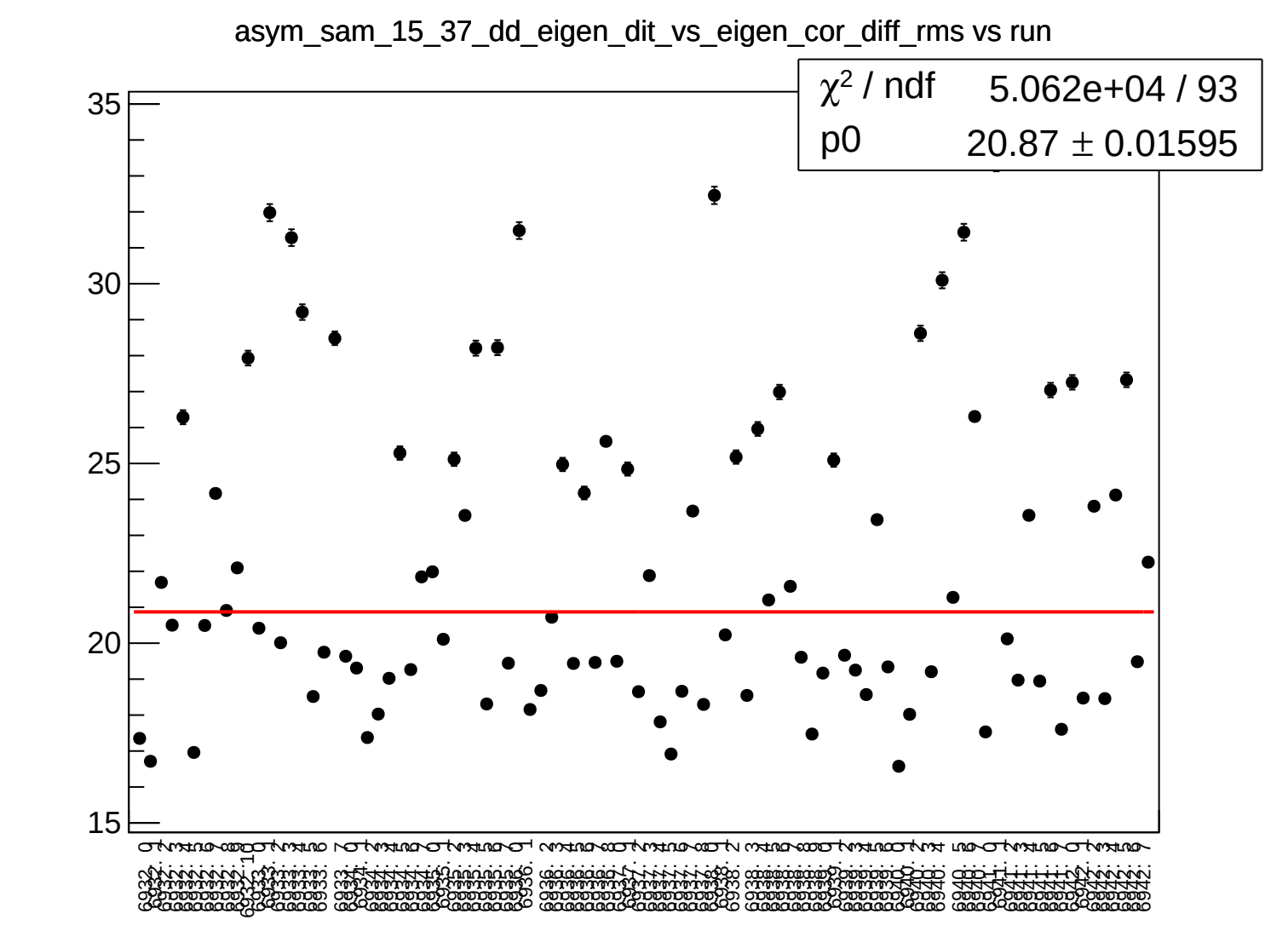

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.26 / 93
p0 2.063e−06 ± 1.777e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 402.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.008297
Std Dev 0.9689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

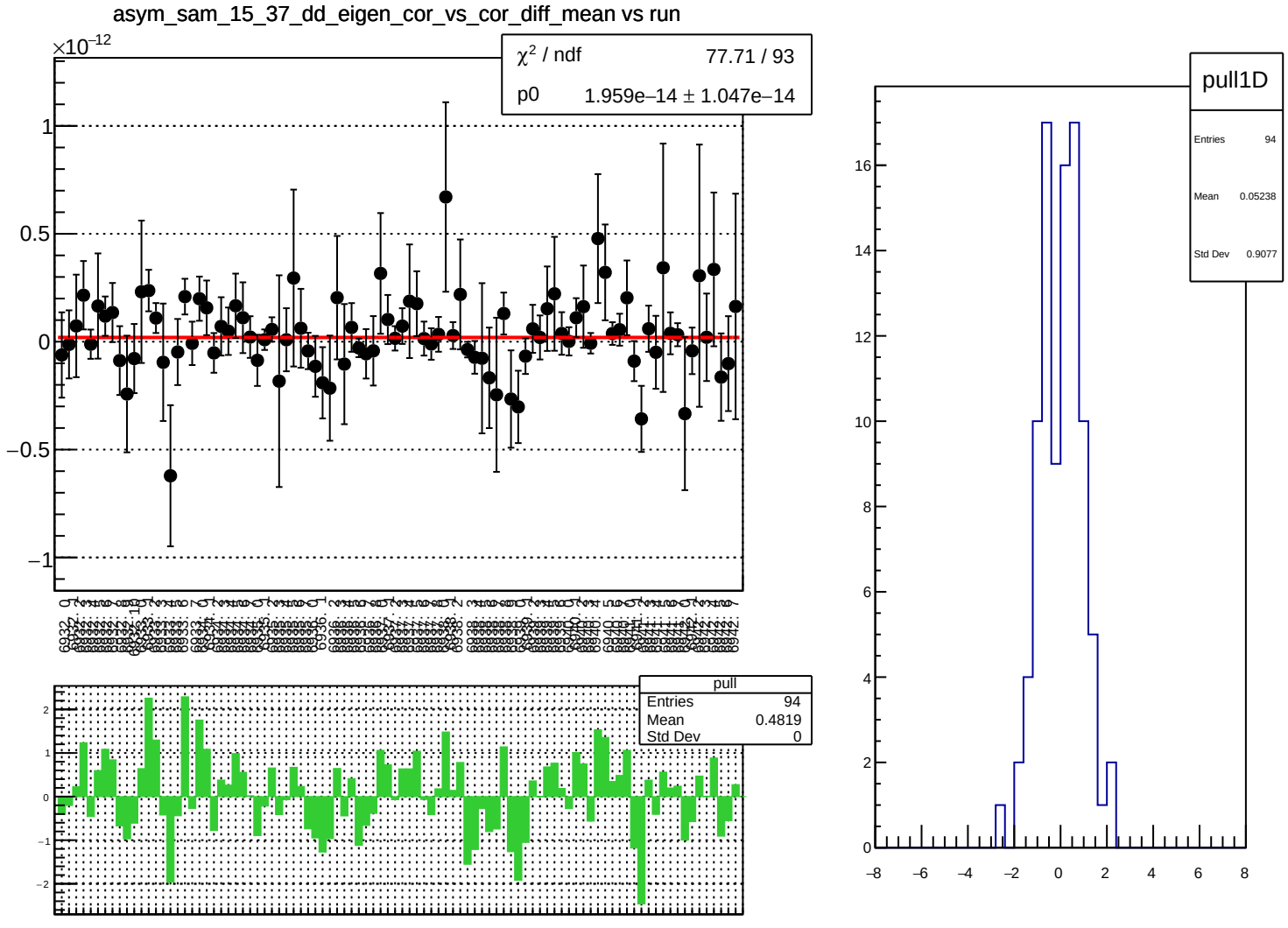

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4950 / 93
p0 0.001667 ± 1.257e−06
0.0019
0.0018
0.0017
0.0016
0.0015

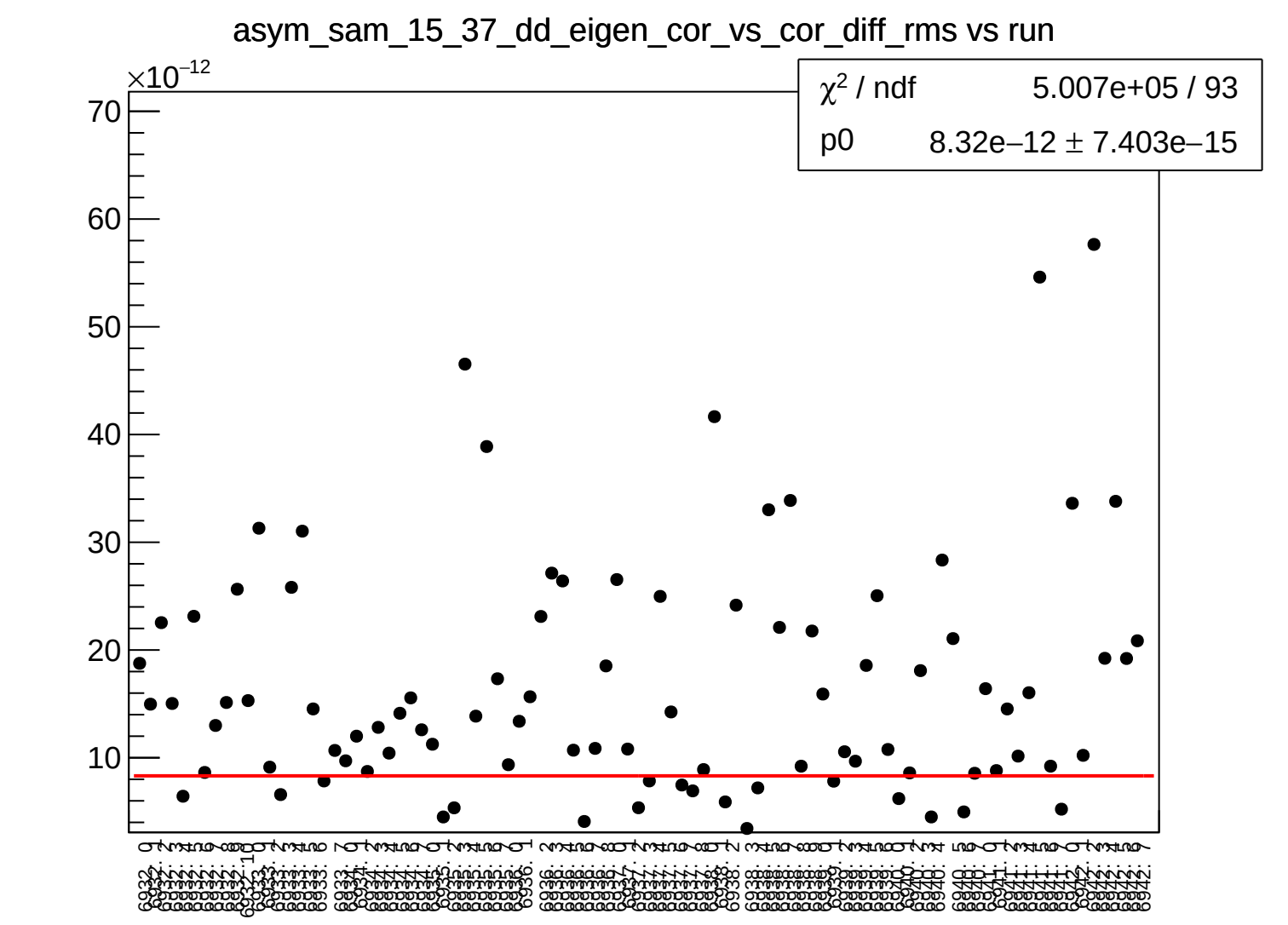

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.32 / 93
p0 −0.001051 ± 0.02255
pull
Entries 94
Mean 413.8
Std Dev 0
pull1D
Entries 94
Mean −0.0116
Std Dev 0.8648

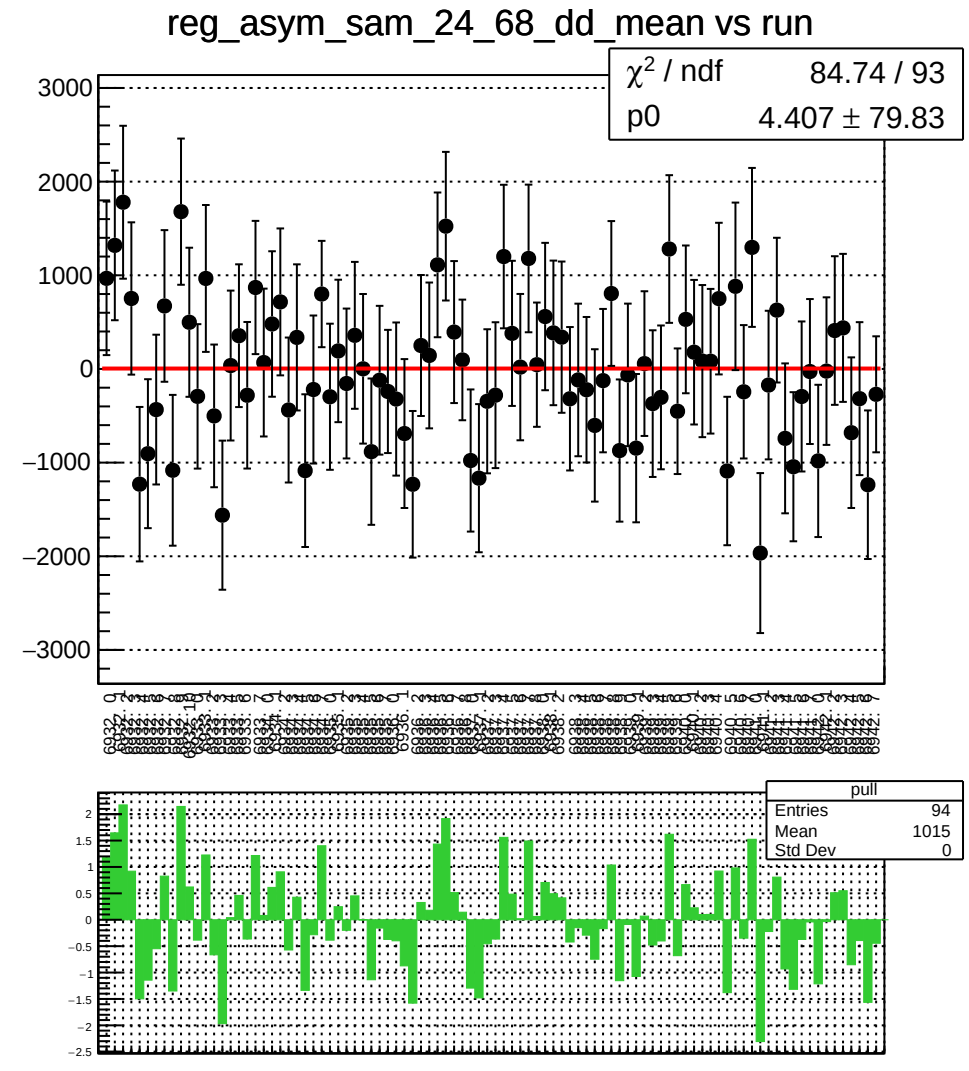

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 93
p0 20.87 ± 0.01595
35
30
25
20
15

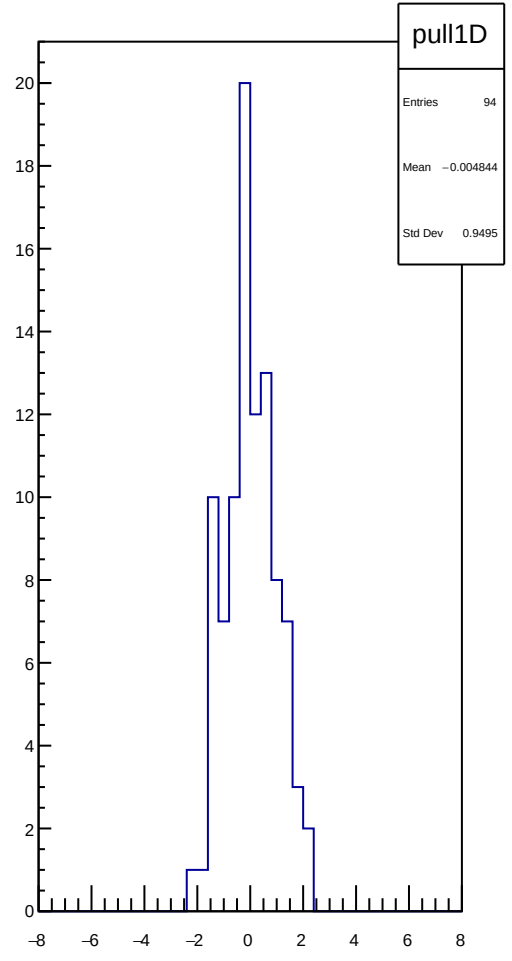

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.32 / 93
p0 −0.001051 ± 0.02255
pull
Entries 94
Mean 413.8
Std Dev 0
pull1D
Entries 94
Mean −0.0116
Std Dev 0.8648

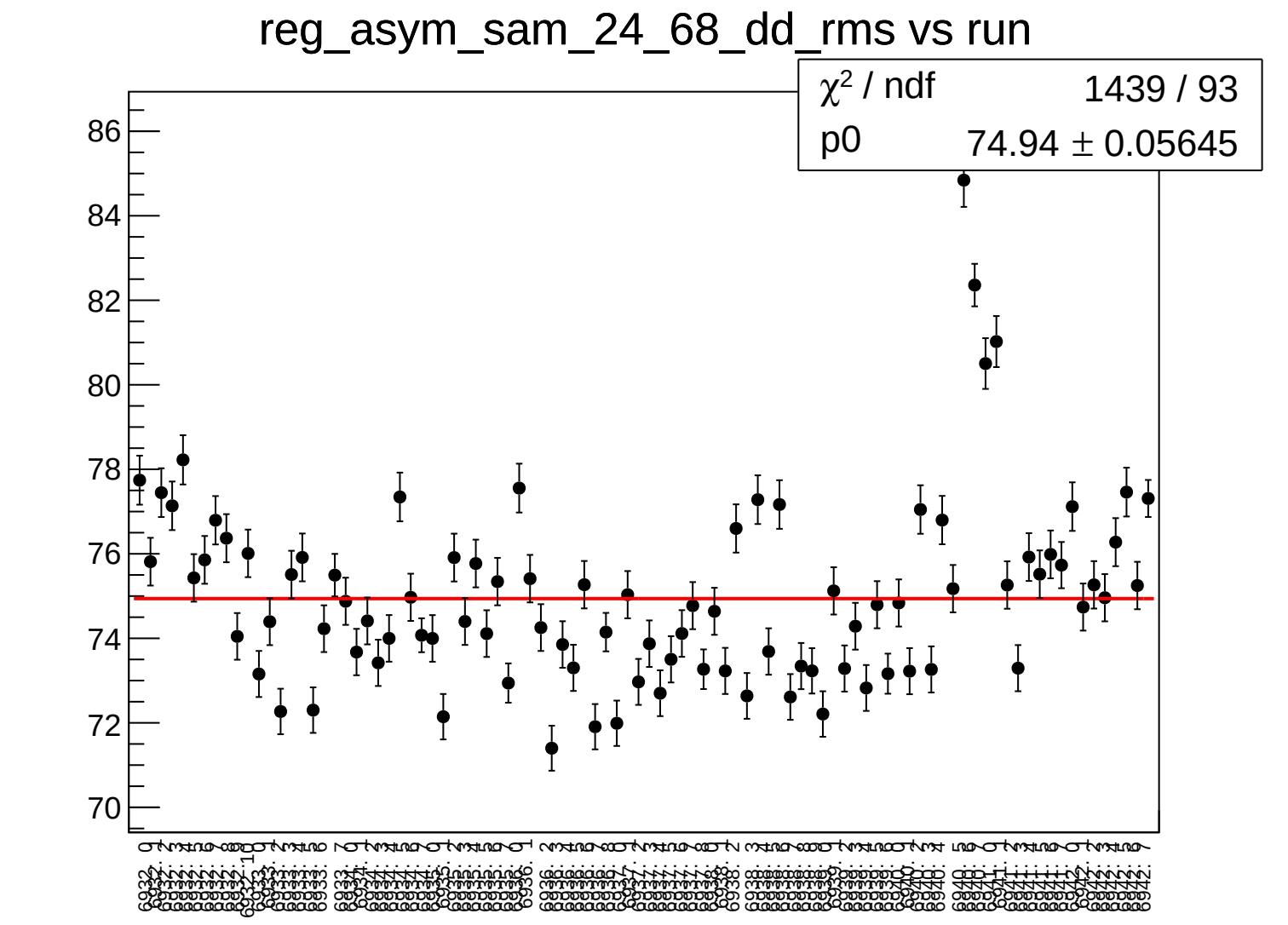

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.062e+04 / 93
p0 20.87 ± 0.01595
35
30
25
20
15

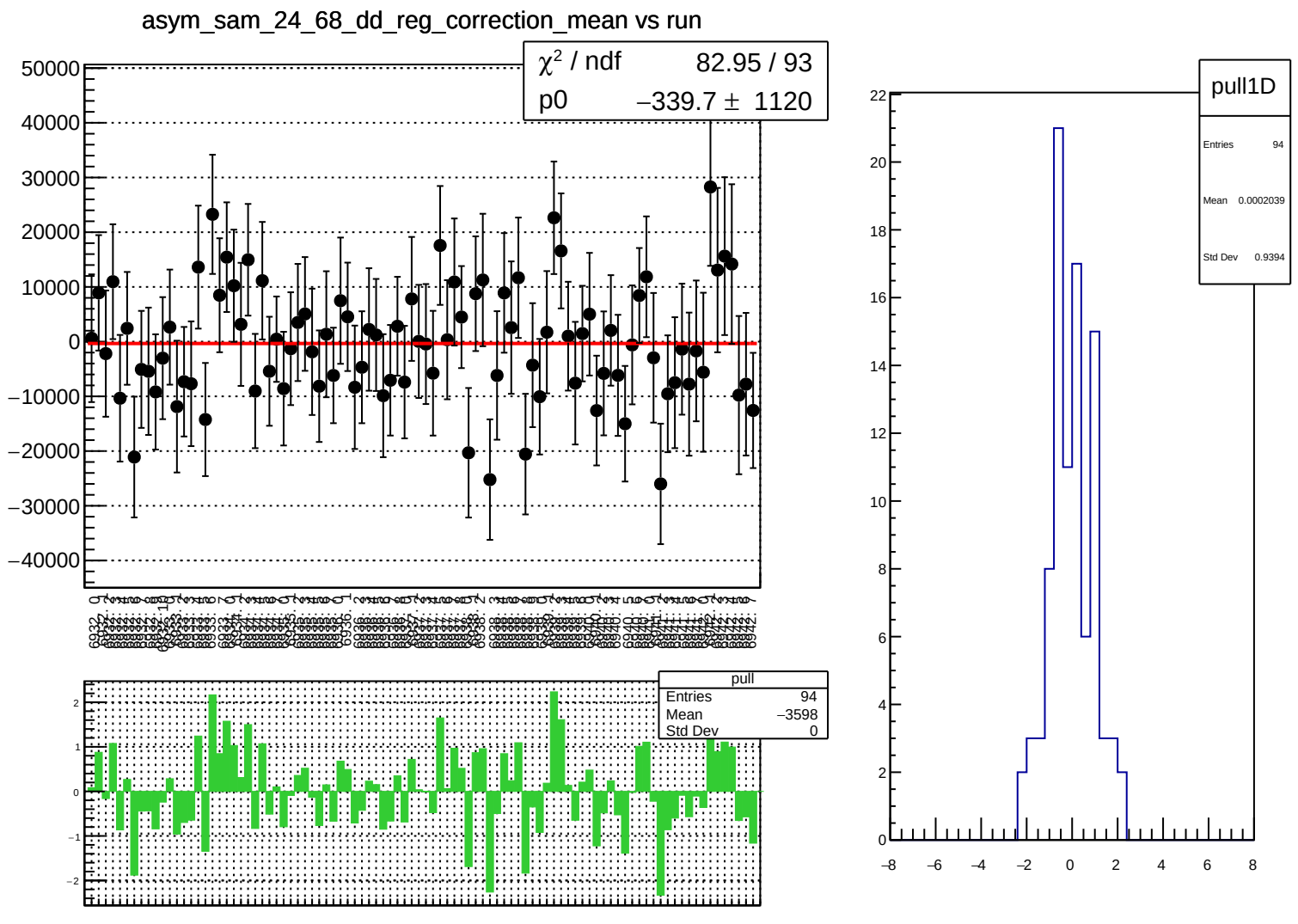

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.71 / 93
p0 1.959e−14 ± 1.047e−14
pull
Entries 94
Mean 0.4819
Std Dev 0
pull1D
Entries 94
Mean 0.05238
Std Dev 0.9077

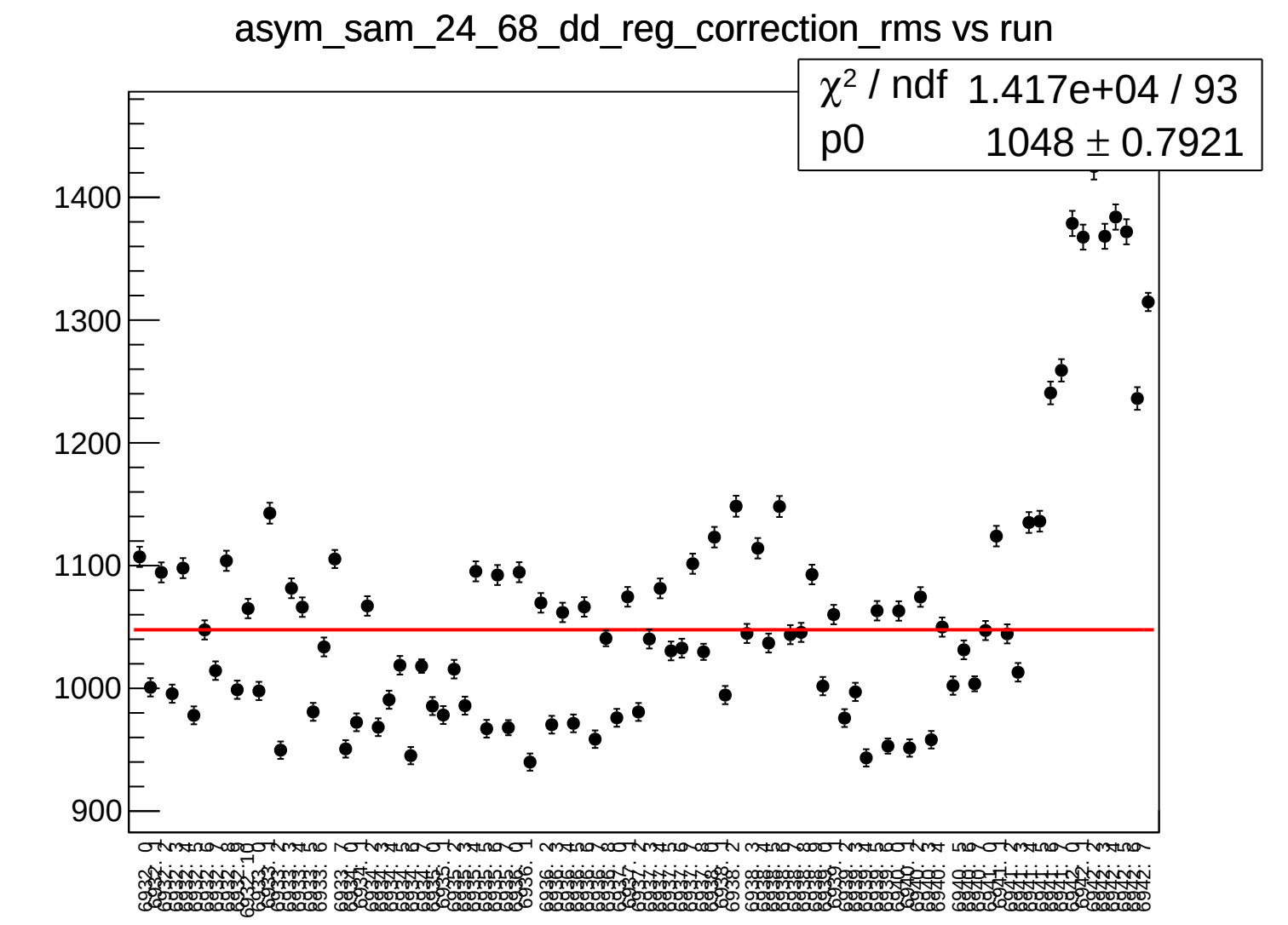

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.007e+05 / 93
p0 8.32e−12 ± 7.403e−15

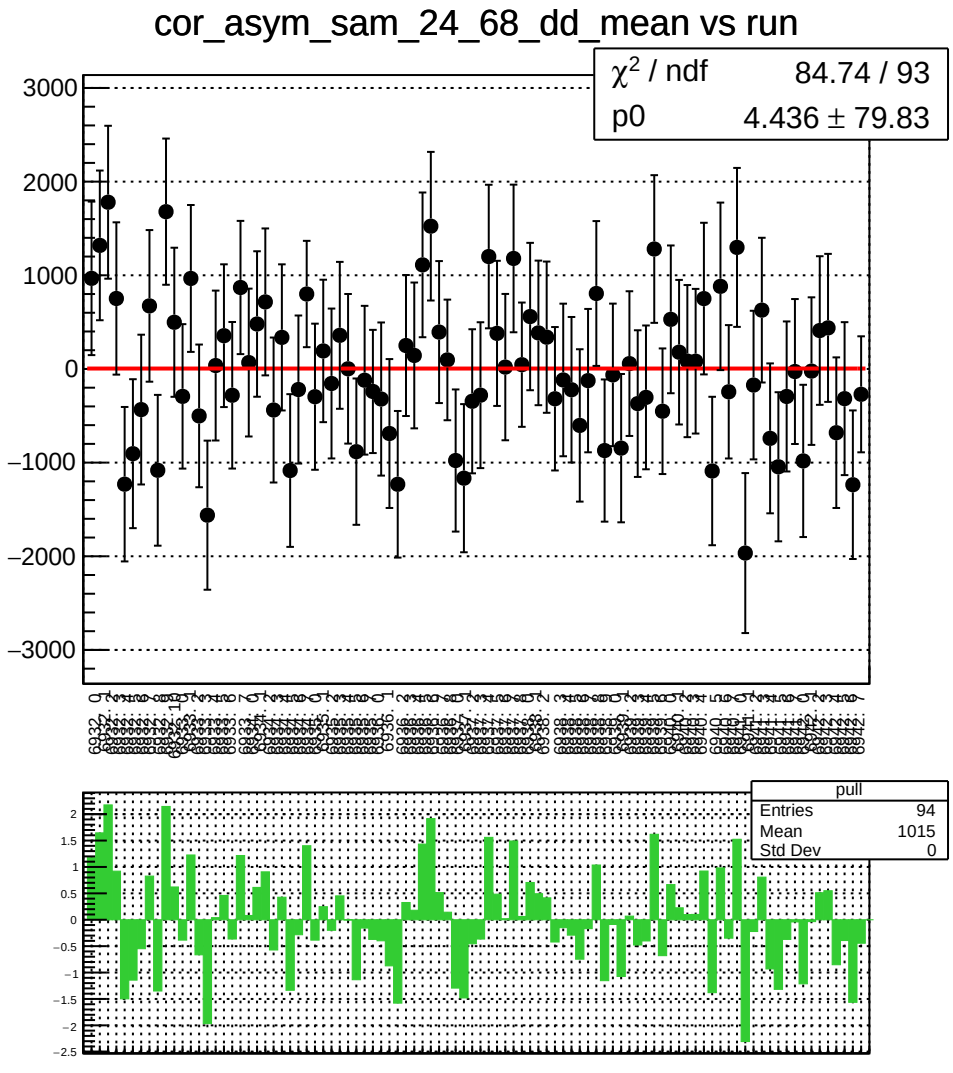

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.74 / 93
p0 4.407 ± 79.83
pull
Entries 94
Mean 1015
Std Dev 0

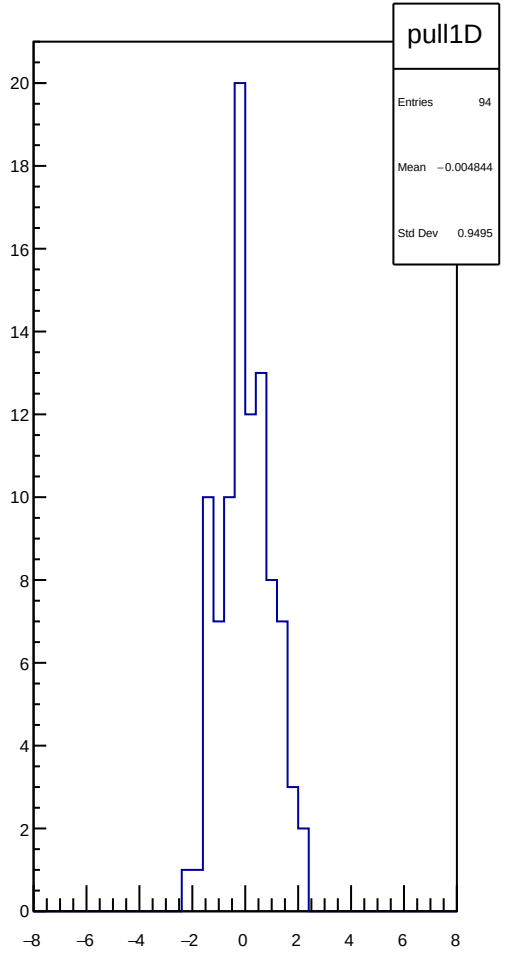

pull1D
Entries 94
Mean −0.004844
Std Dev 0.9495


reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1439 / 93
p0 74.94 ± 0.05645
86
84
82
80
78
76
74
72
70

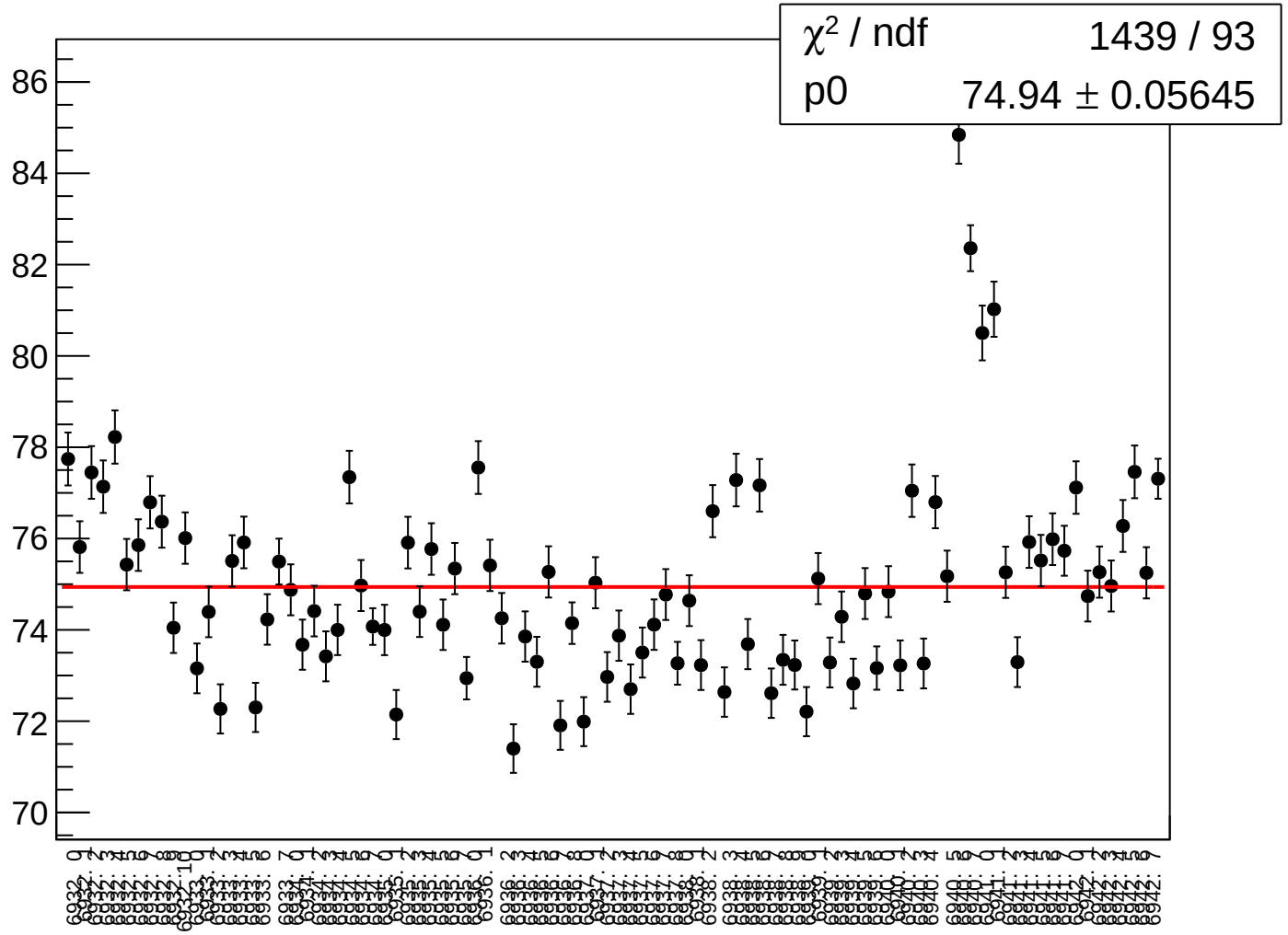

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 82.95 / 93
p0 −339.7 ± 1120
pull
Entries 94
Mean −3598
Std Dev 0
pull1D
Entries 94
Mean 0.0002039
Std Dev 0.9394

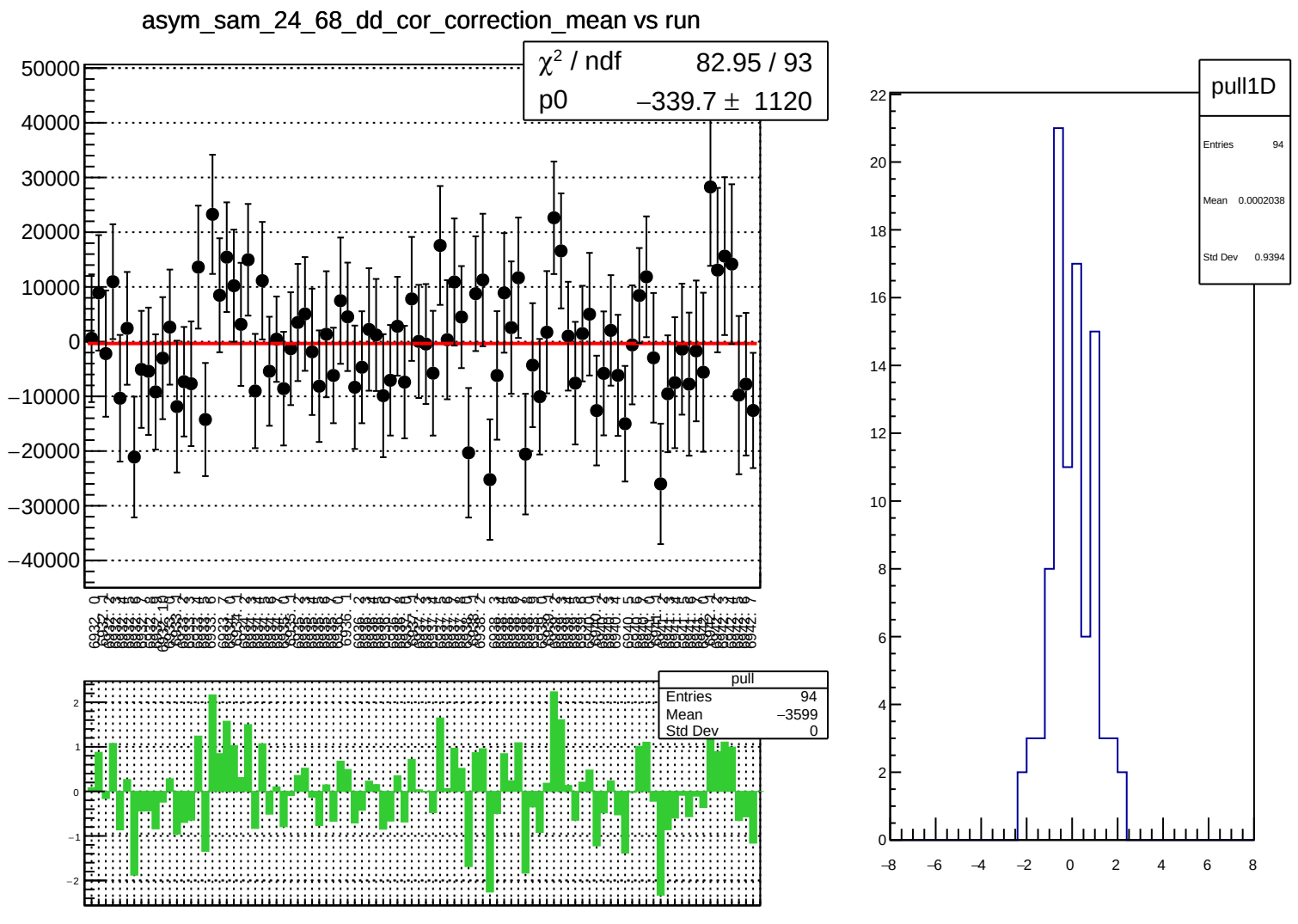

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 1048 ± 0.7921
1400
1300
1200
1100
1000
900

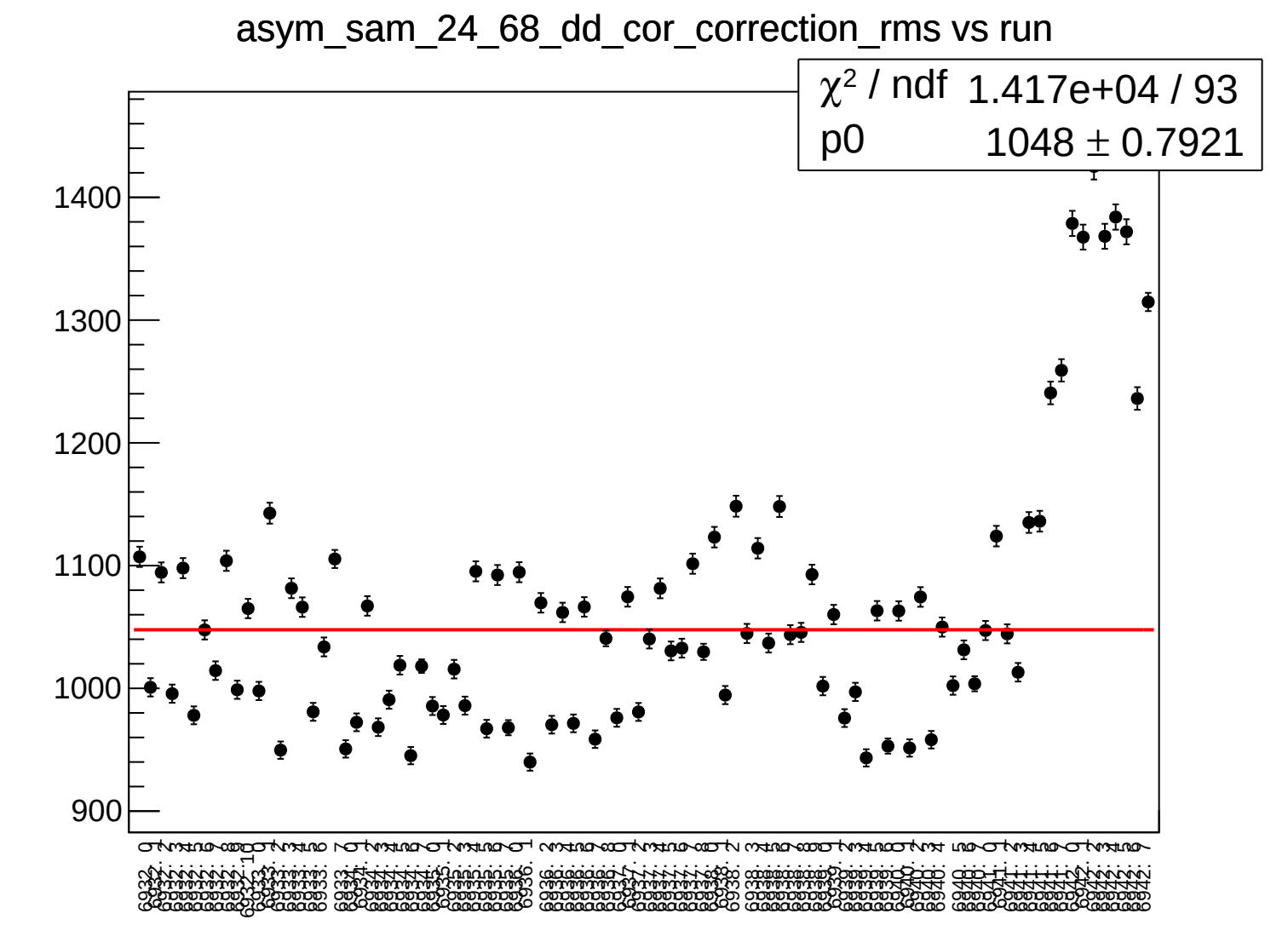

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.74 / 93
p0 4.436 ± 79.83
pull
Entries 94
Mean 1015
Std Dev 0

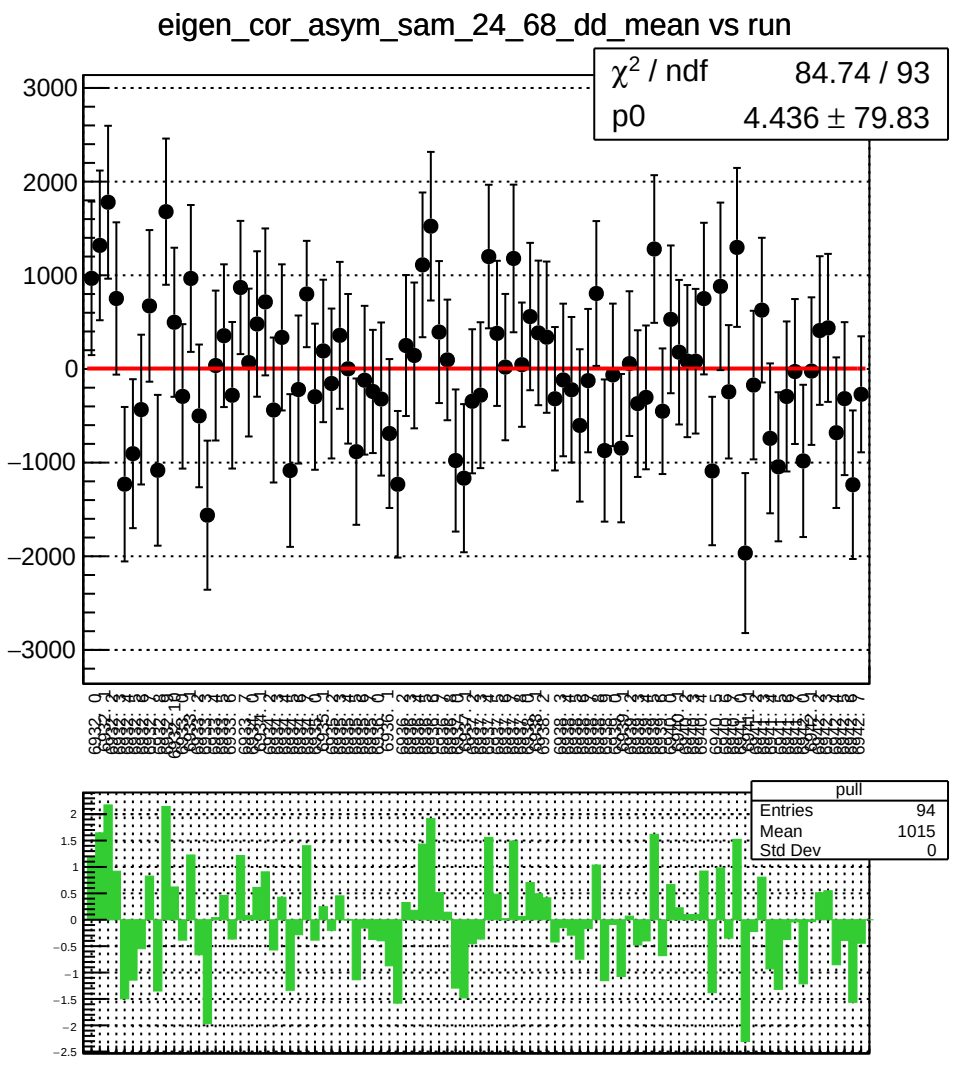

pull1D
Entries 94
Mean −0.004844
Std Dev 0.9495

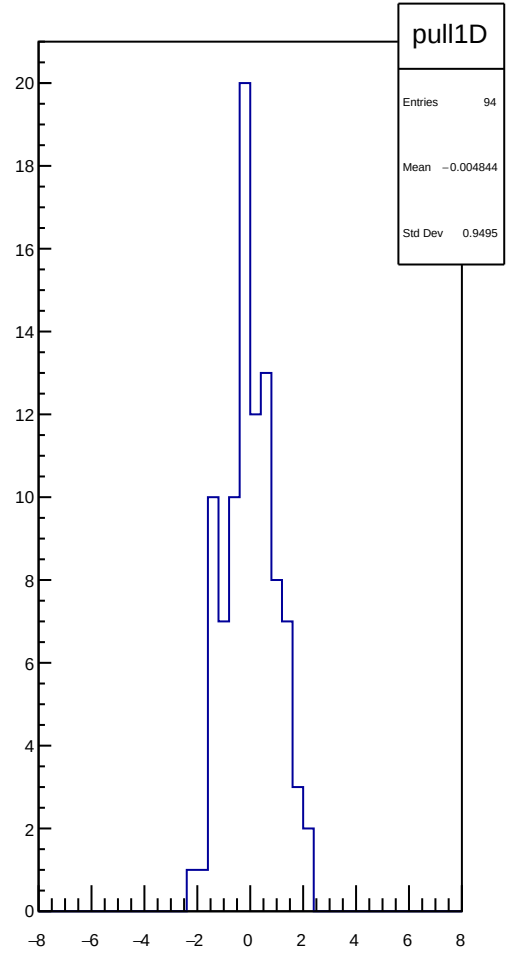
cor_asym_sam_24_68_dd_rms vs run

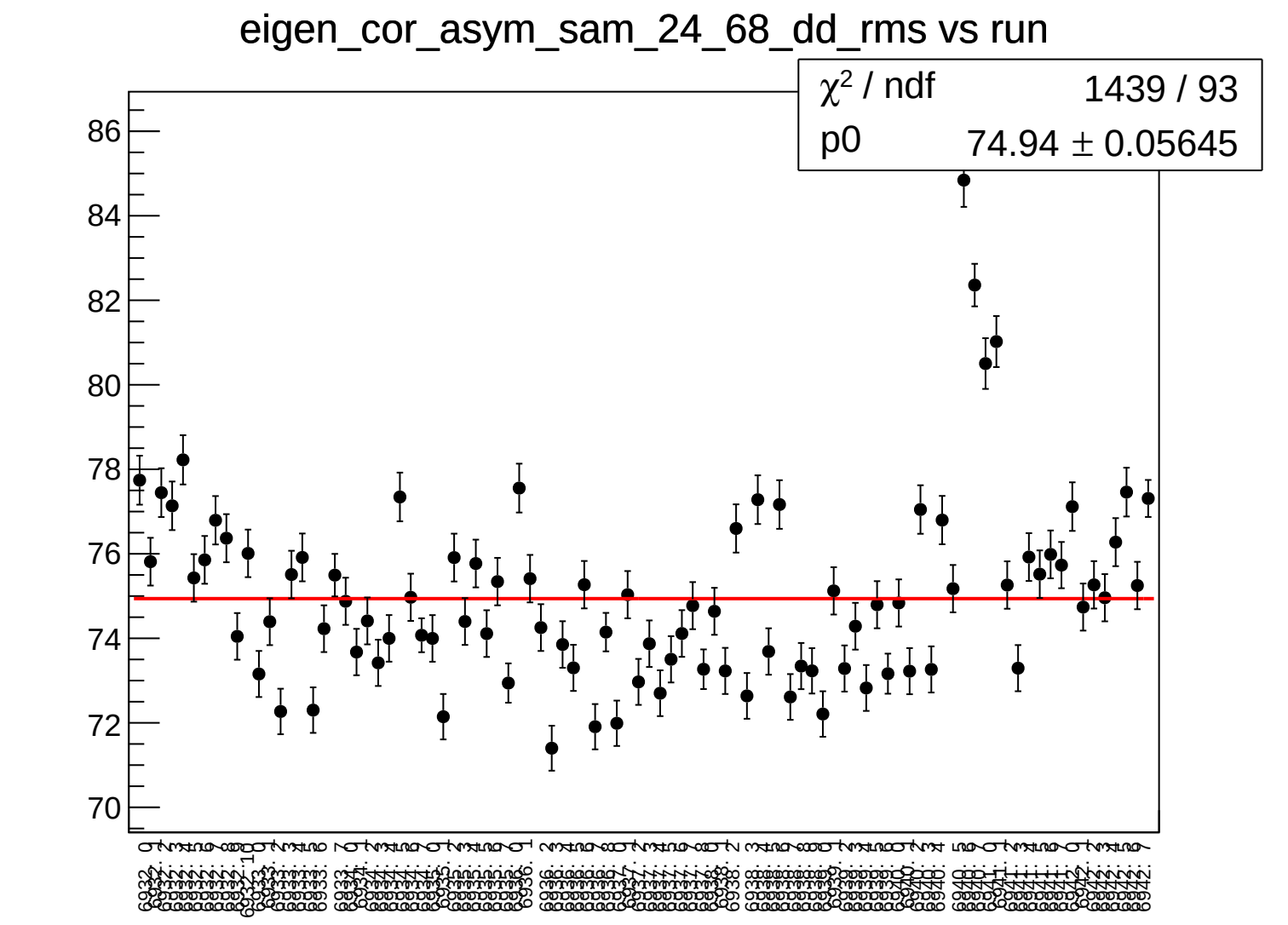


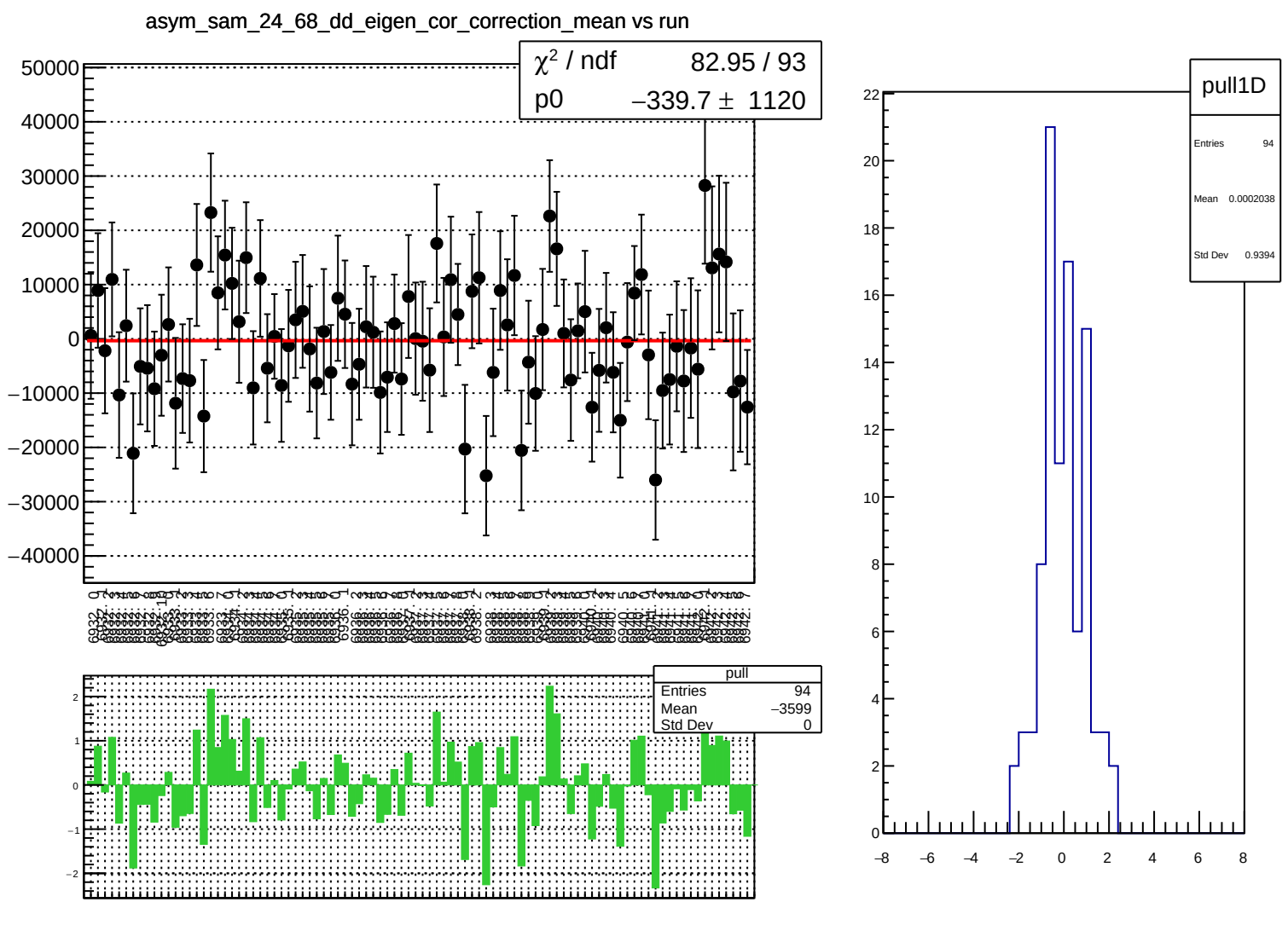

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 82.95 / 93
p0 −339.7 ± 1120
pull
Entries 94
Mean −3599
Std Dev 0
pull1D
Entries 94
Mean 0.0002038
Std Dev 0.9394

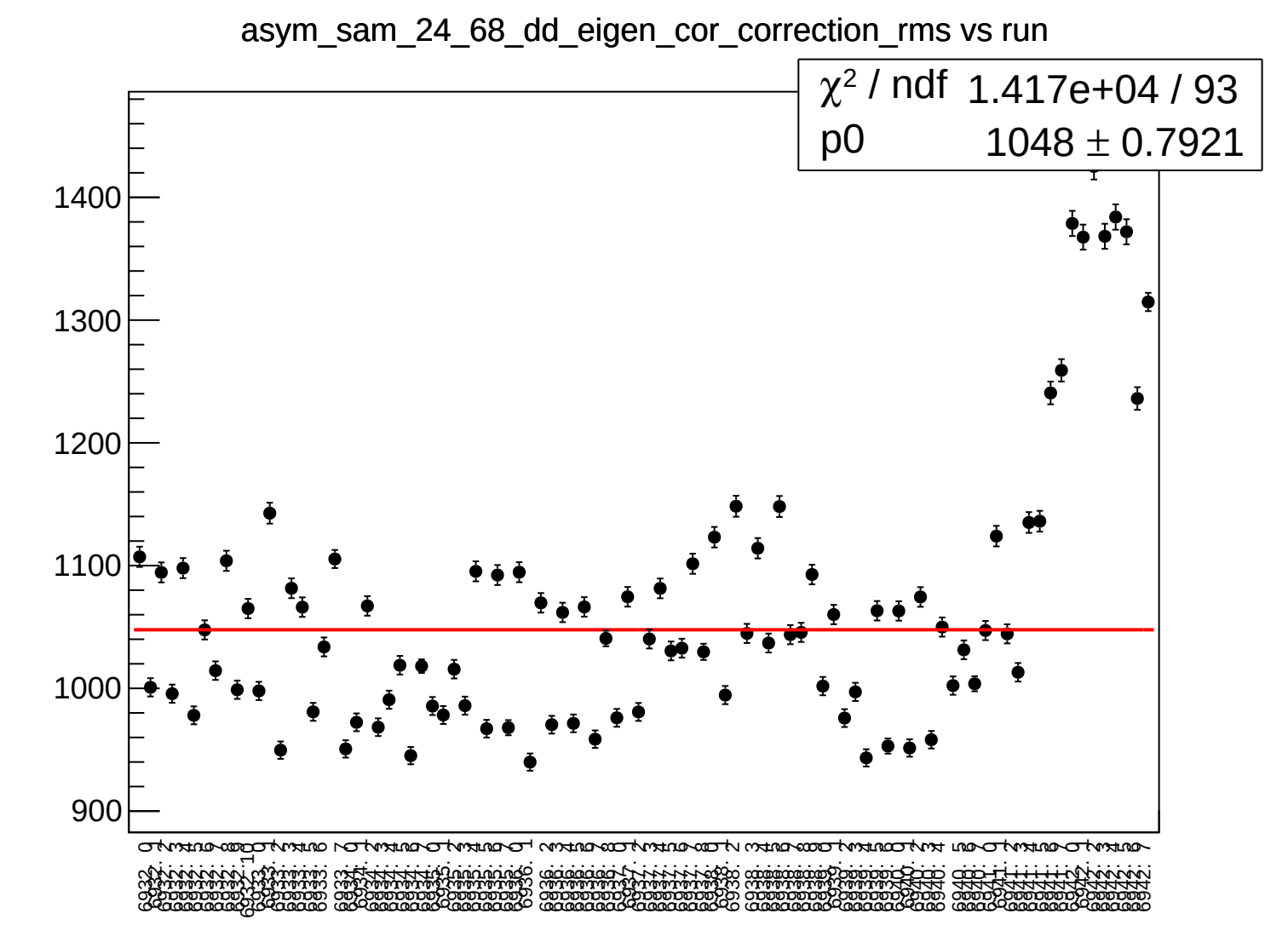

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 1048 ± 0.7921
1400
1300
1200
1100
1000
900

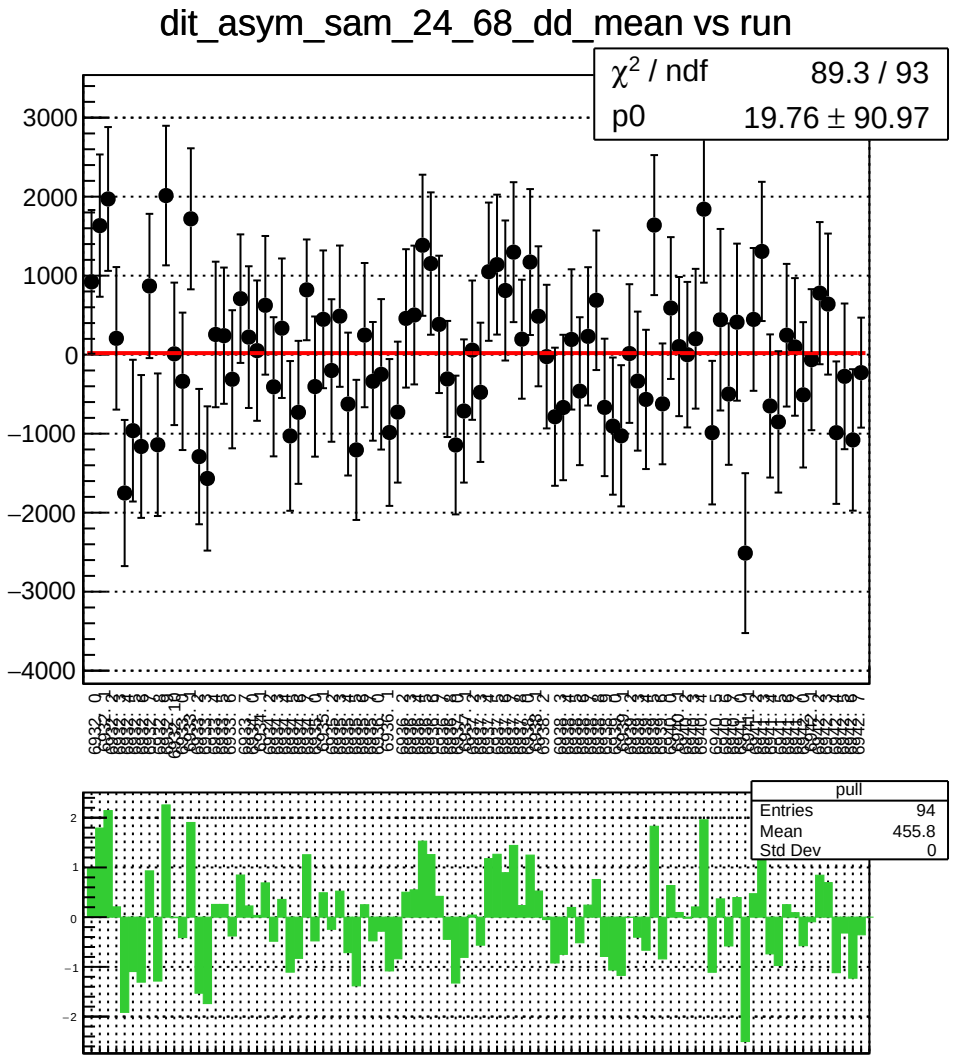

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 84.74 / 93
p0 4.436 ± 79.83
pull
Entries 94
Mean 1015
Std Dev 0

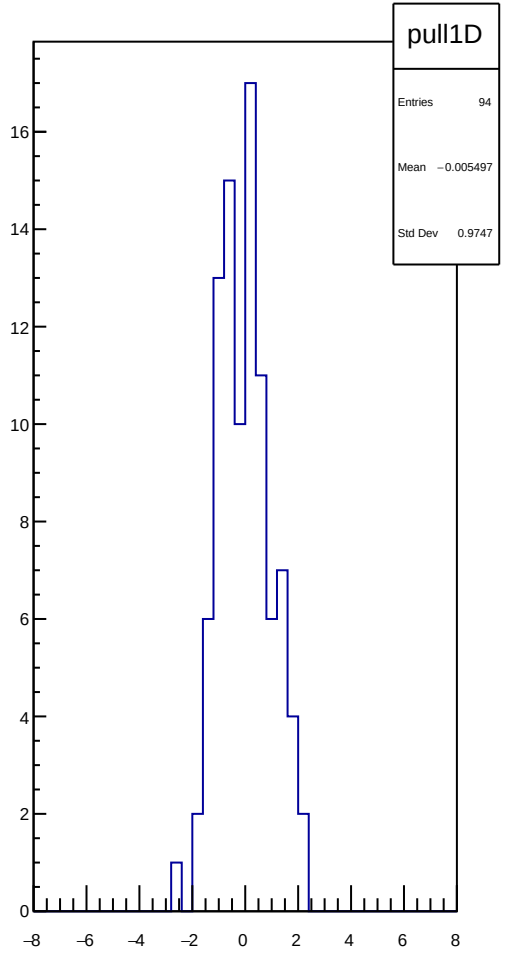

pull1D
Entries 94
Mean −0.004844
Std Dev 0.9495

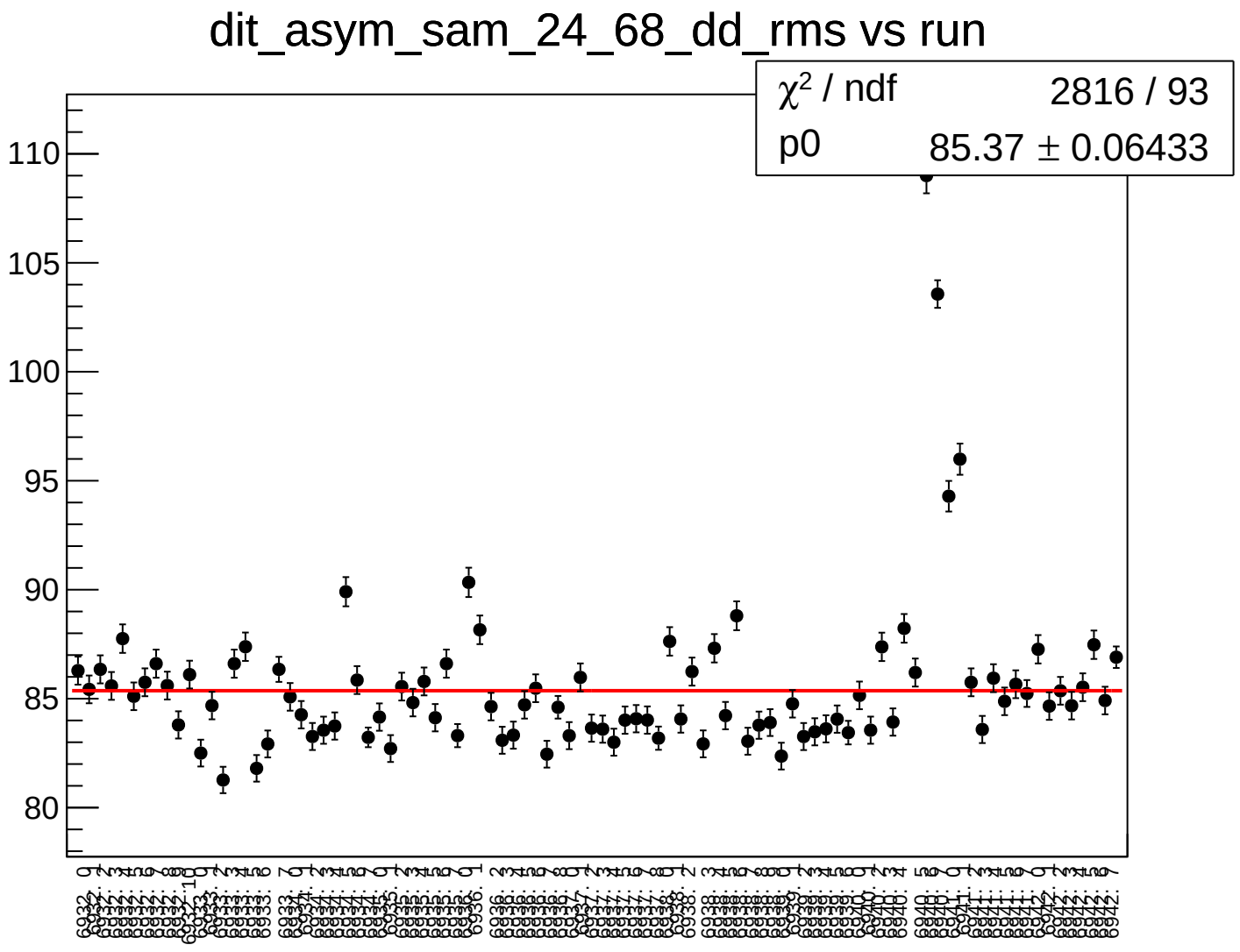

eigen_cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1439 / 93
p0 74.94 ± 0.05645
86
84
82
80
78
76
74
72
70

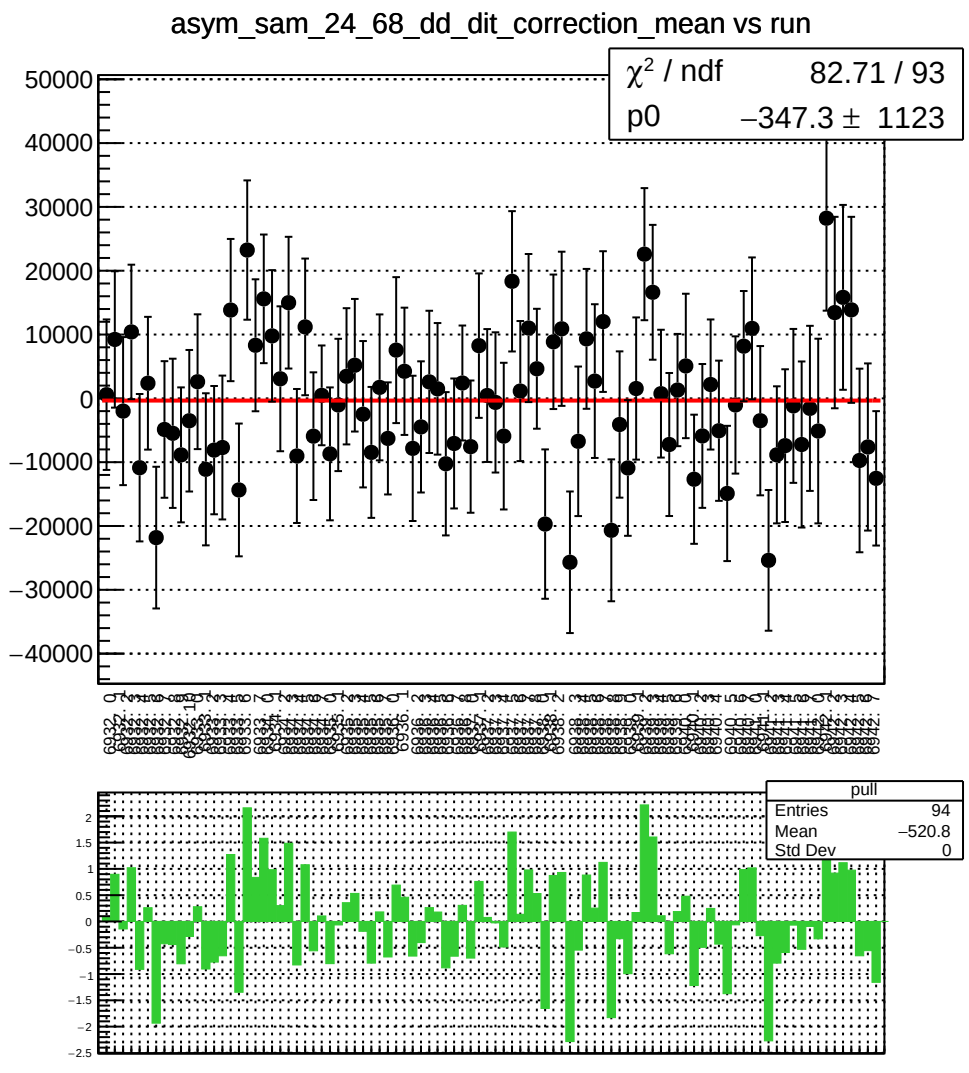

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.95 / 93
p0 −339.7 ± 1120
pull
Entries 94
Mean −3599
Std Dev 0
pull1D
Entries 94
Mean 0.0002038
Std Dev 0.9394

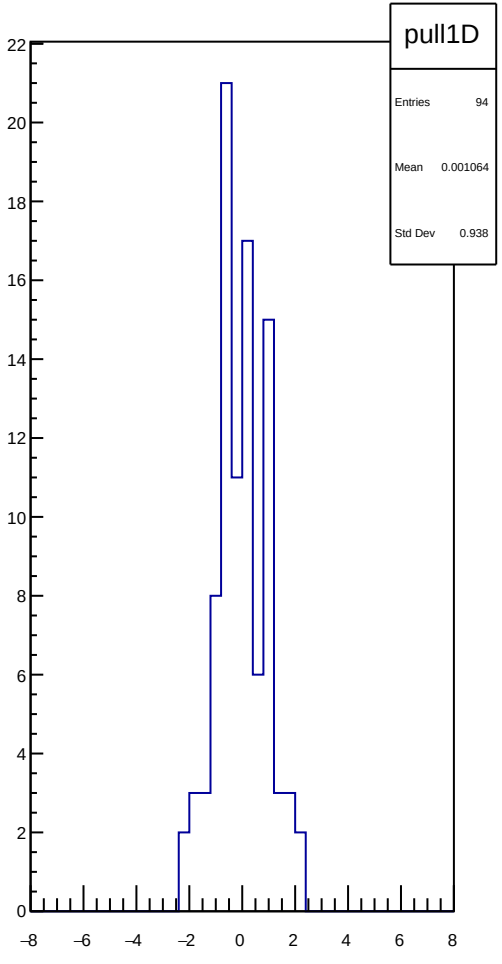

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.417e+04 / 93
p0 1048 ± 0.7921
1400
1300
1200
1100
1000
900

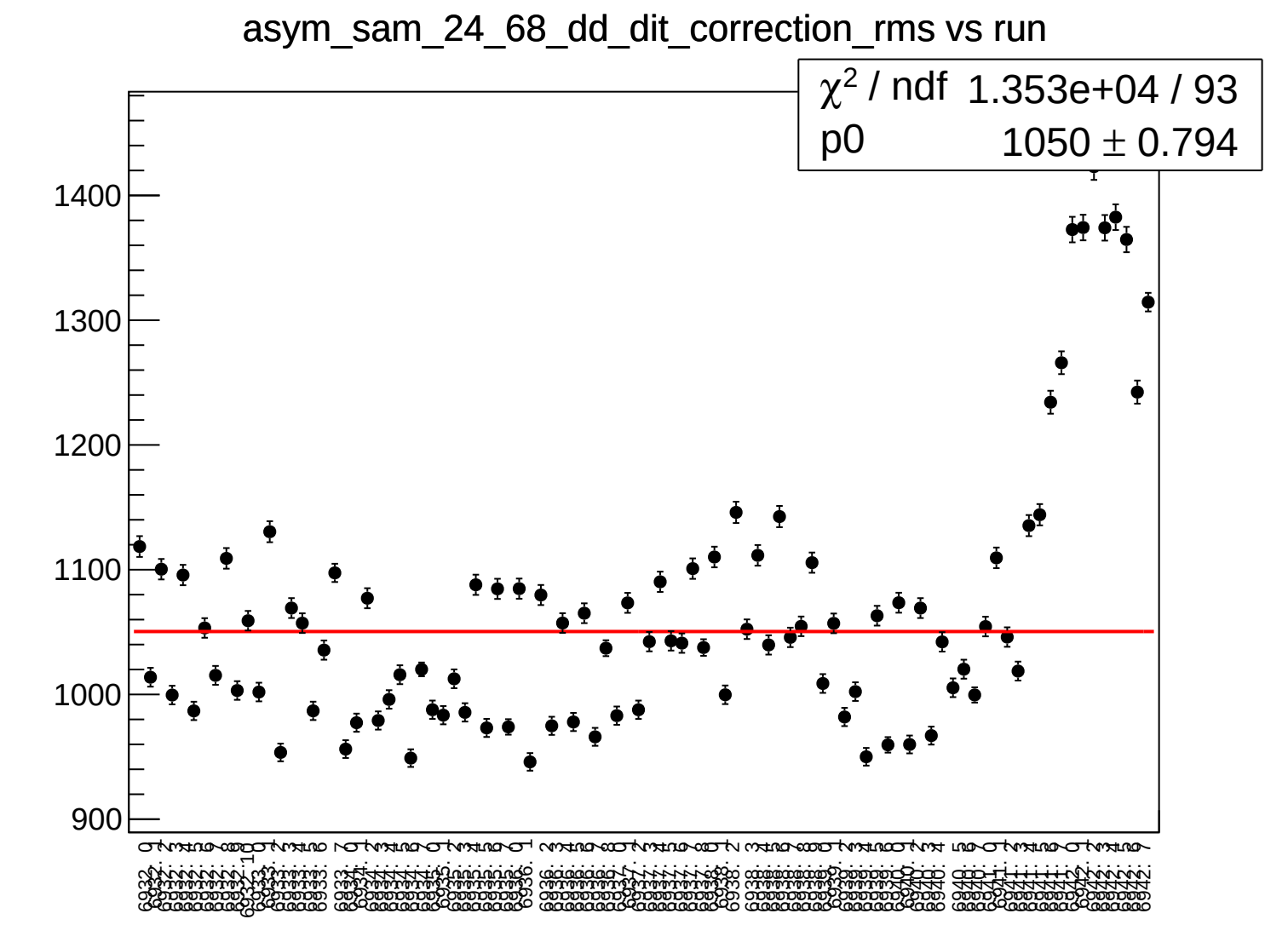

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.3 / 93
p0 19.76 ± 90.97
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 455.8
Std Dev 0
2
1
0
−1
−2

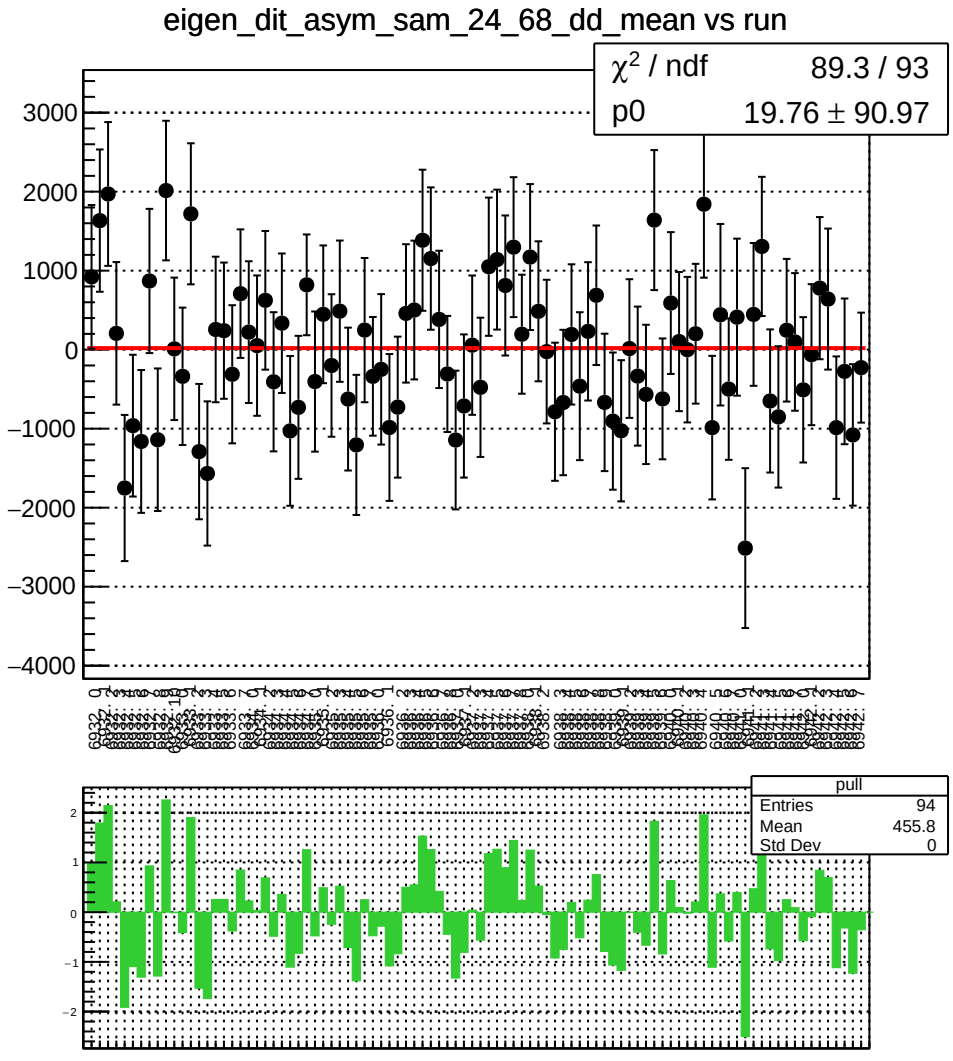

pull1D
Entries 94
Mean −0.005497
Std Dev 0.9747
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

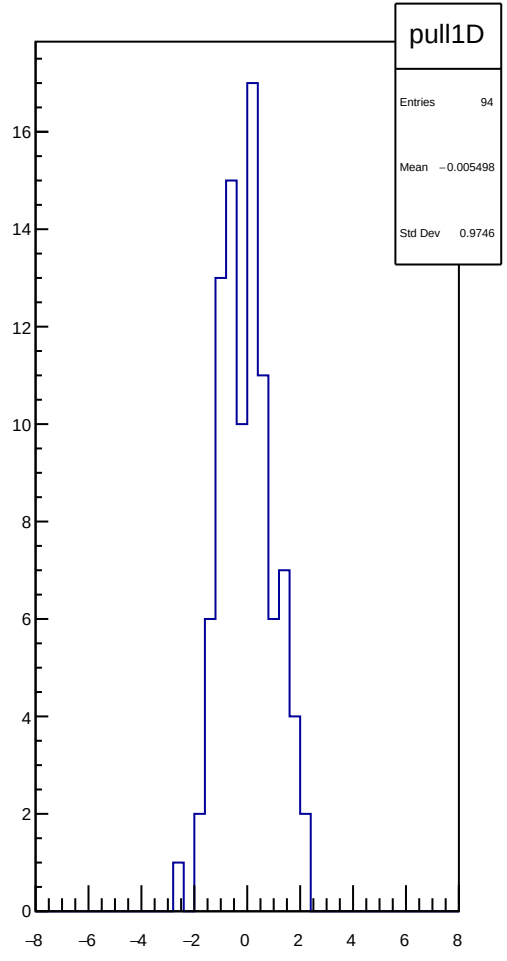

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2816 / 93
p0 85.37 ± 0.06433
110
105
100
95
90
85
80

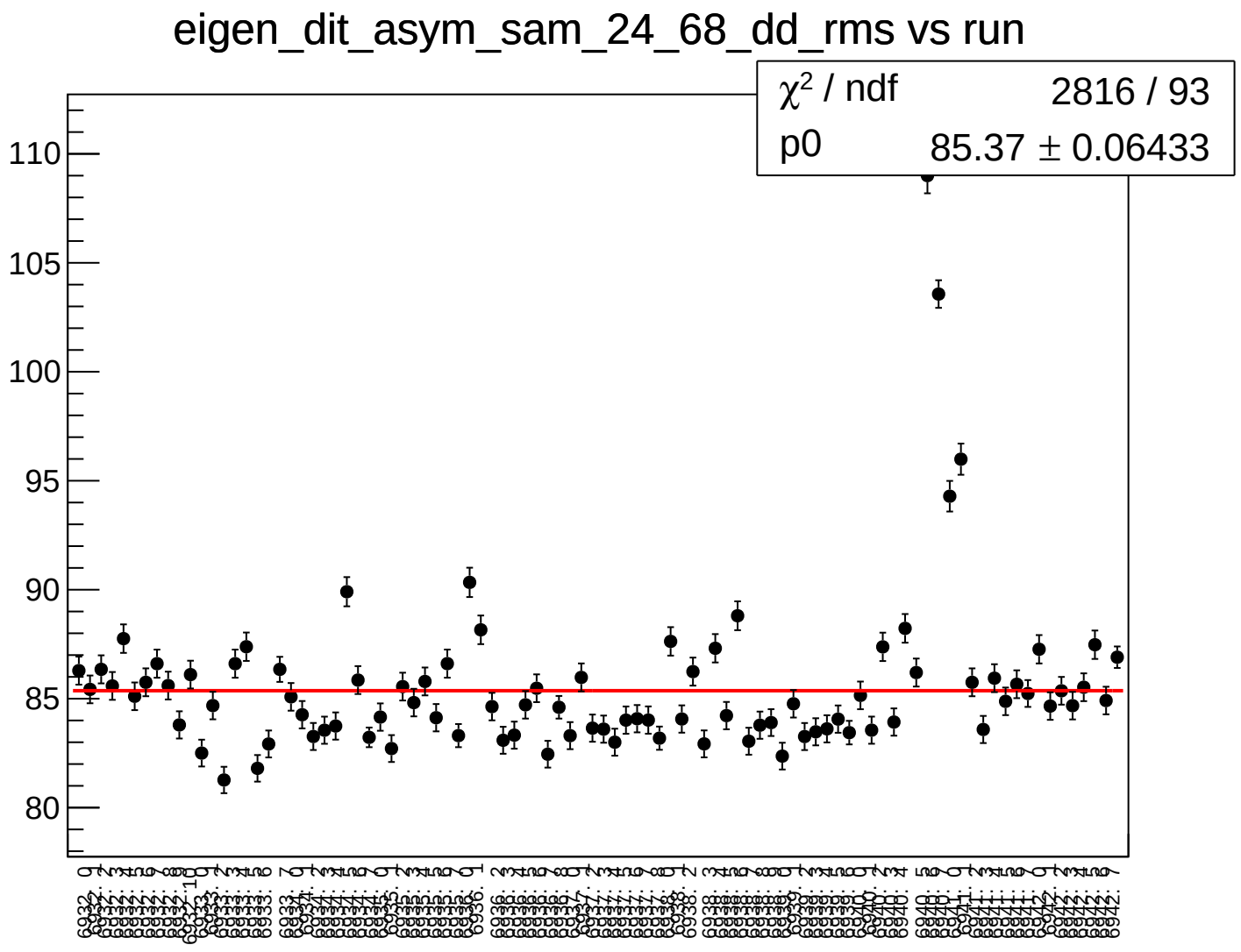

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 82.71 / 93
p0 −347.3 ± 1123
pull
Entries 94
Mean −520.8
Std Dev 0

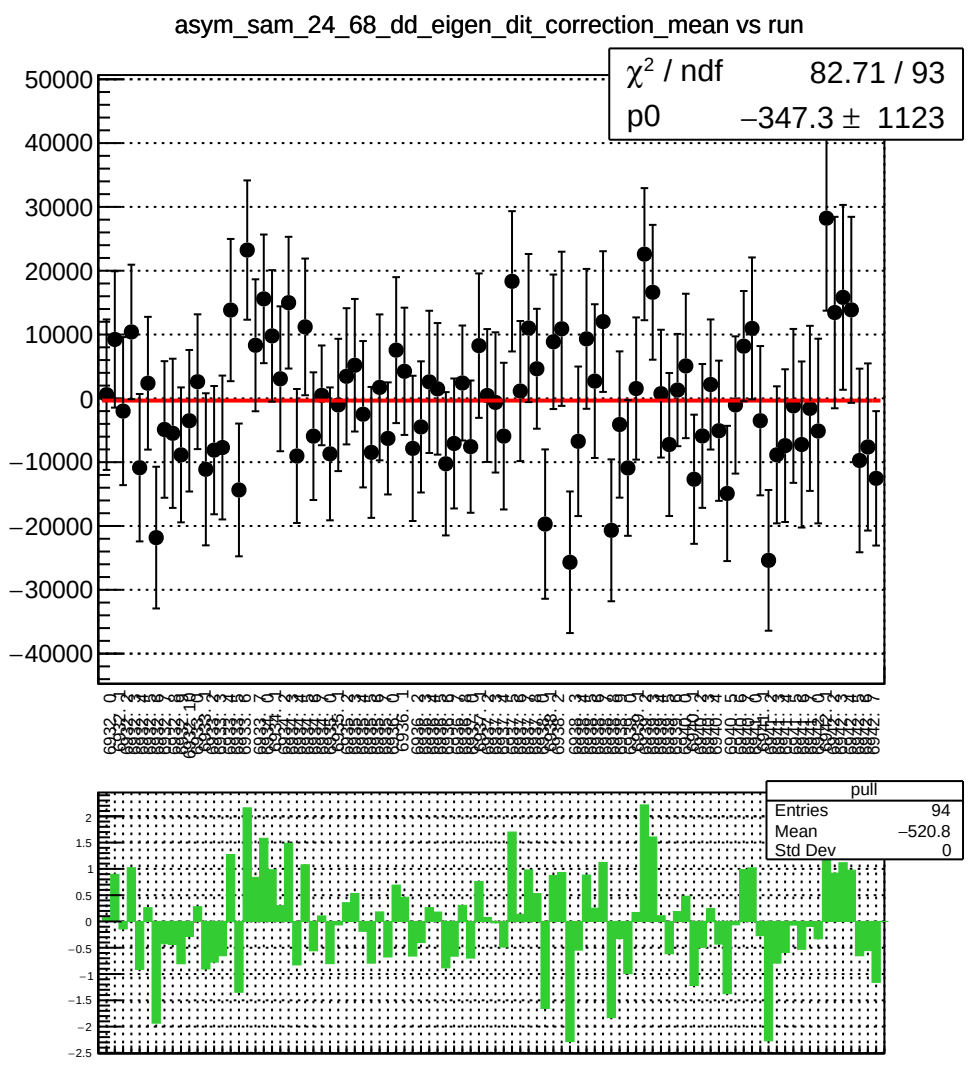

pull1D
Entries 94
Mean 0.001064
Std Dev 0.938

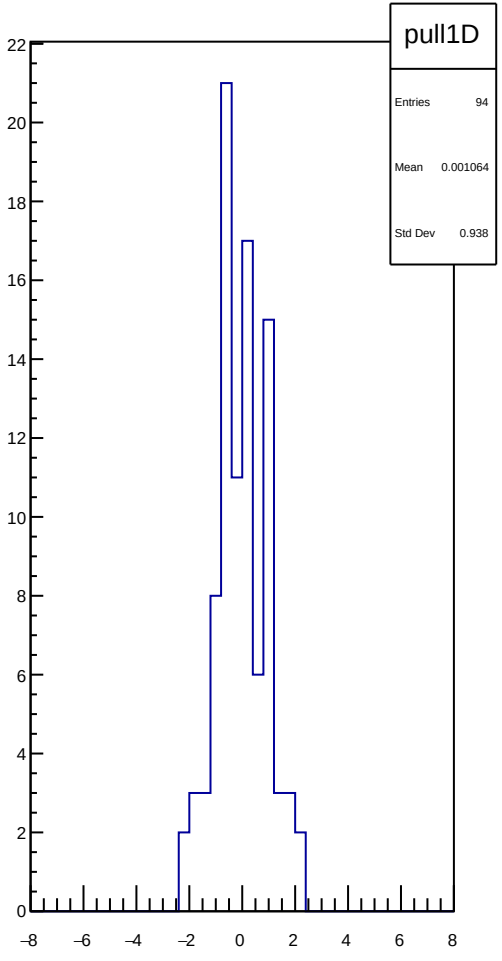

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 1.353e+04 / 93
p0 1050 ± 0.794
1400
1300
1200
1100
1000
900

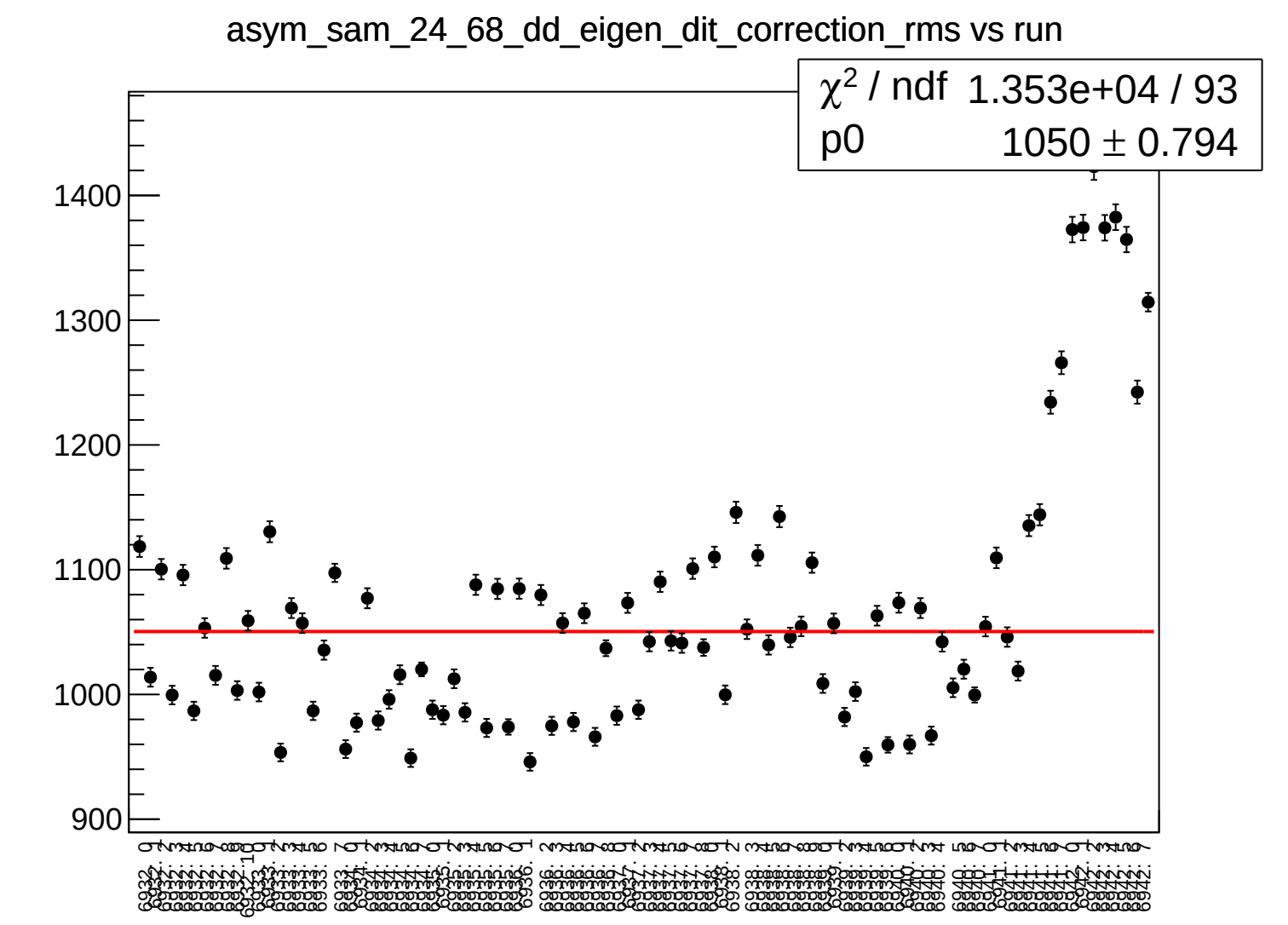

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.3 / 93
p0 19.76 ± 90.97
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 455.8
Std Dev 0
2
1
0
−1
−2

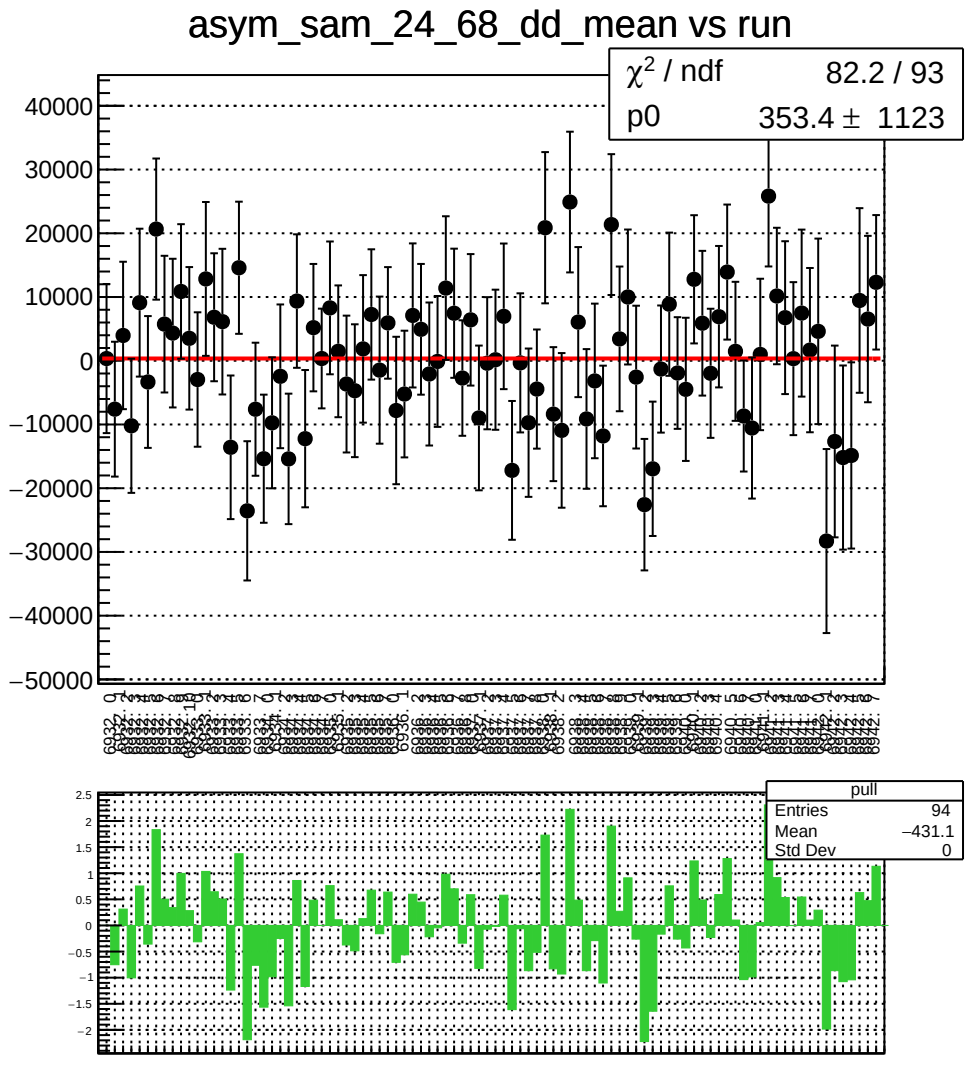

pull1D
Entries 94
Mean −0.005498
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

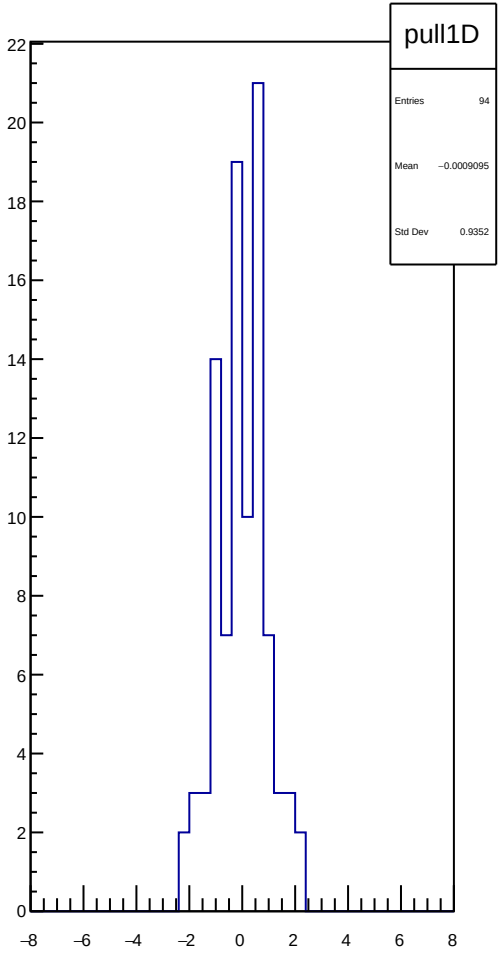

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 2816 / 93
p0 85.37 ± 0.06433
110
105
100
95
90
85
80

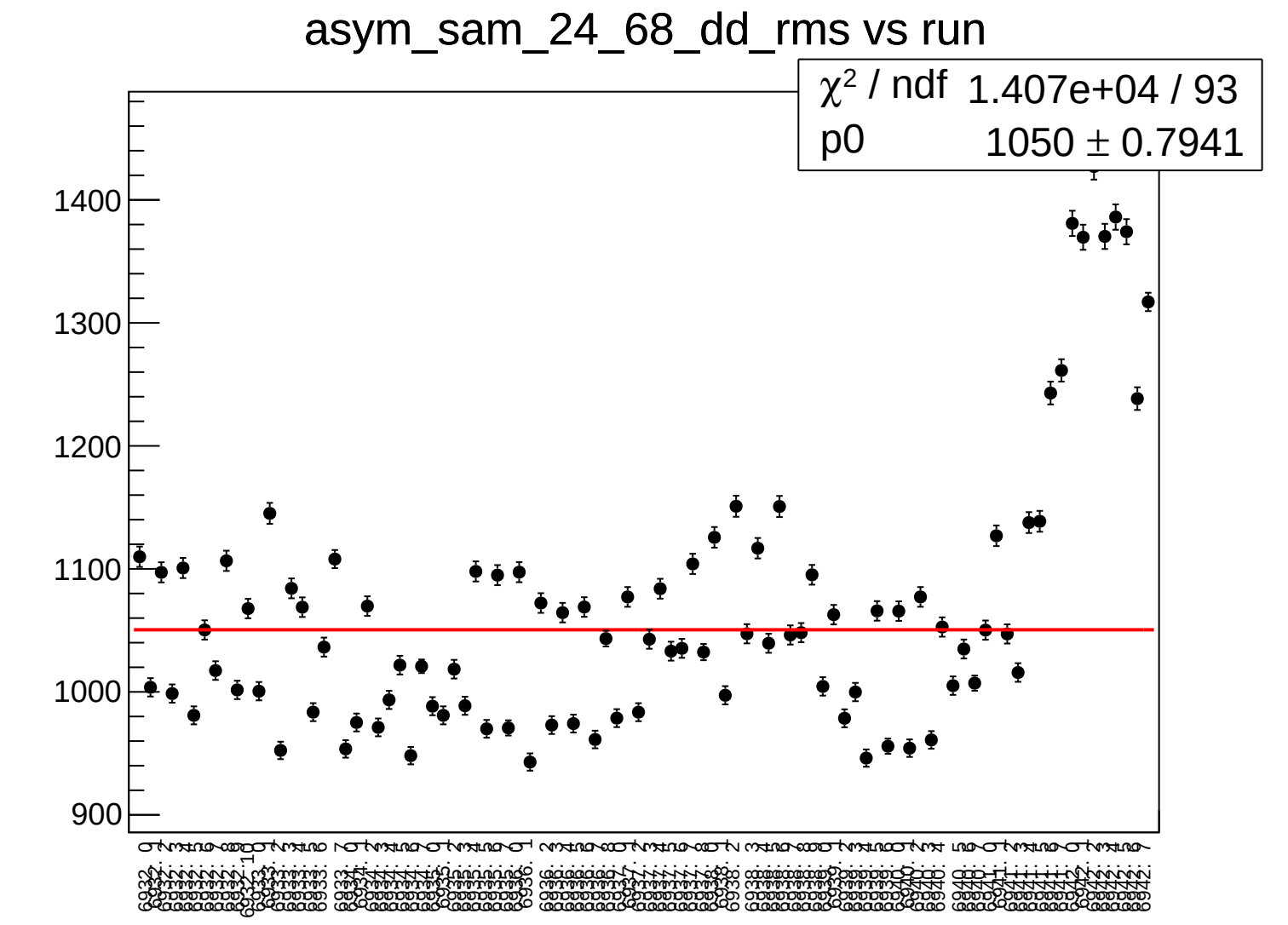

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.71 / 93
p0 −347.3 ± 1123
pull
Entries 94
Mean −520.8
Std Dev 0

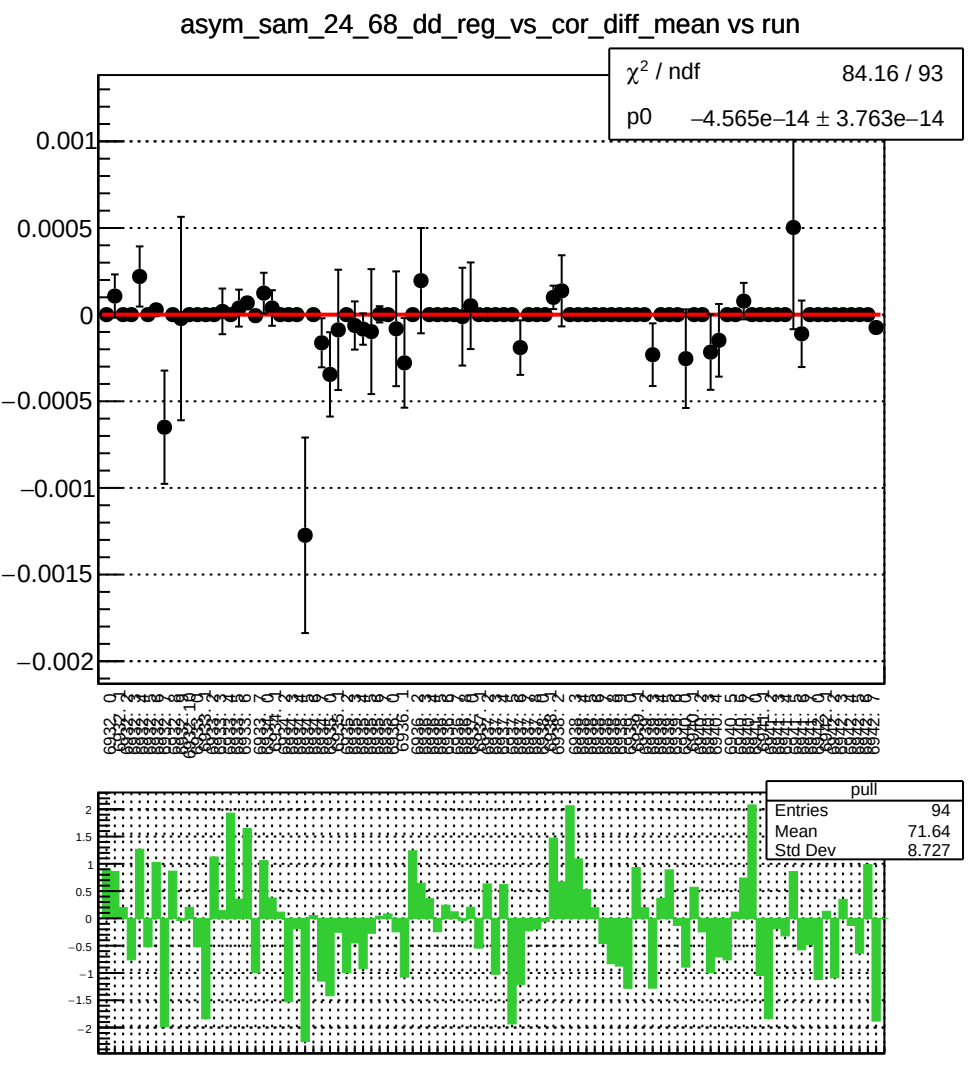

pull1D
Entries 94
Mean 0.001064
Std Dev 0.938

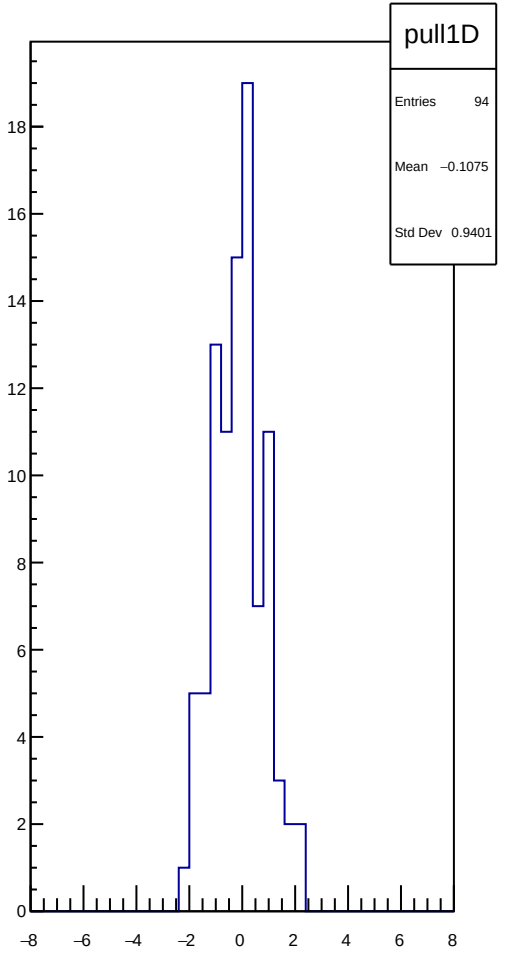

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.353e+04 / 93
p0 1050 ± 0.794
1400
1300
1200
1100
1000
900

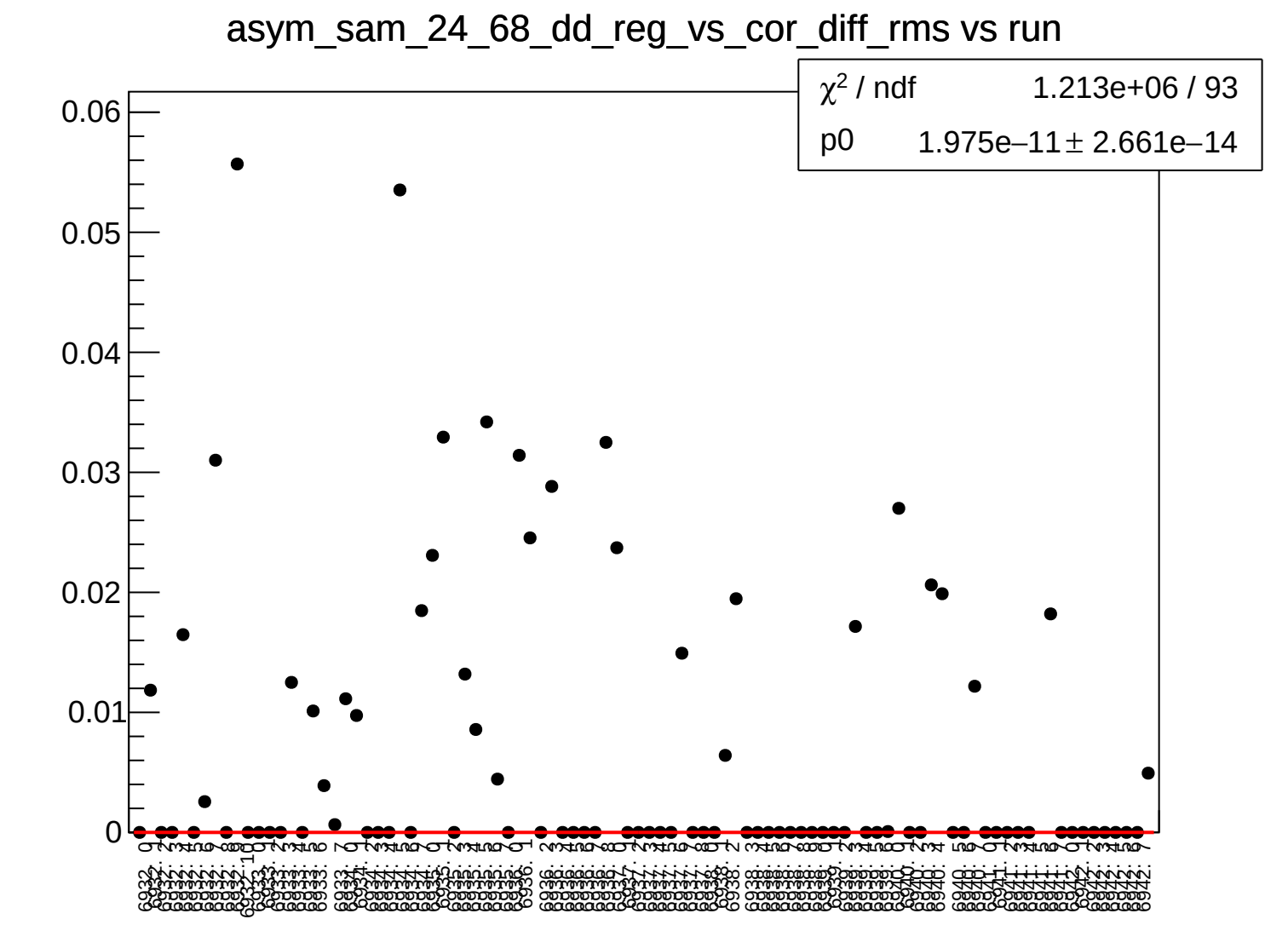

asym_sam_24_68_dd_mean vs run
χ² / ndf 82.2 / 93
p0 353.4 ± 1123
pull
Entries 94
Mean −431.1
Std Dev 0

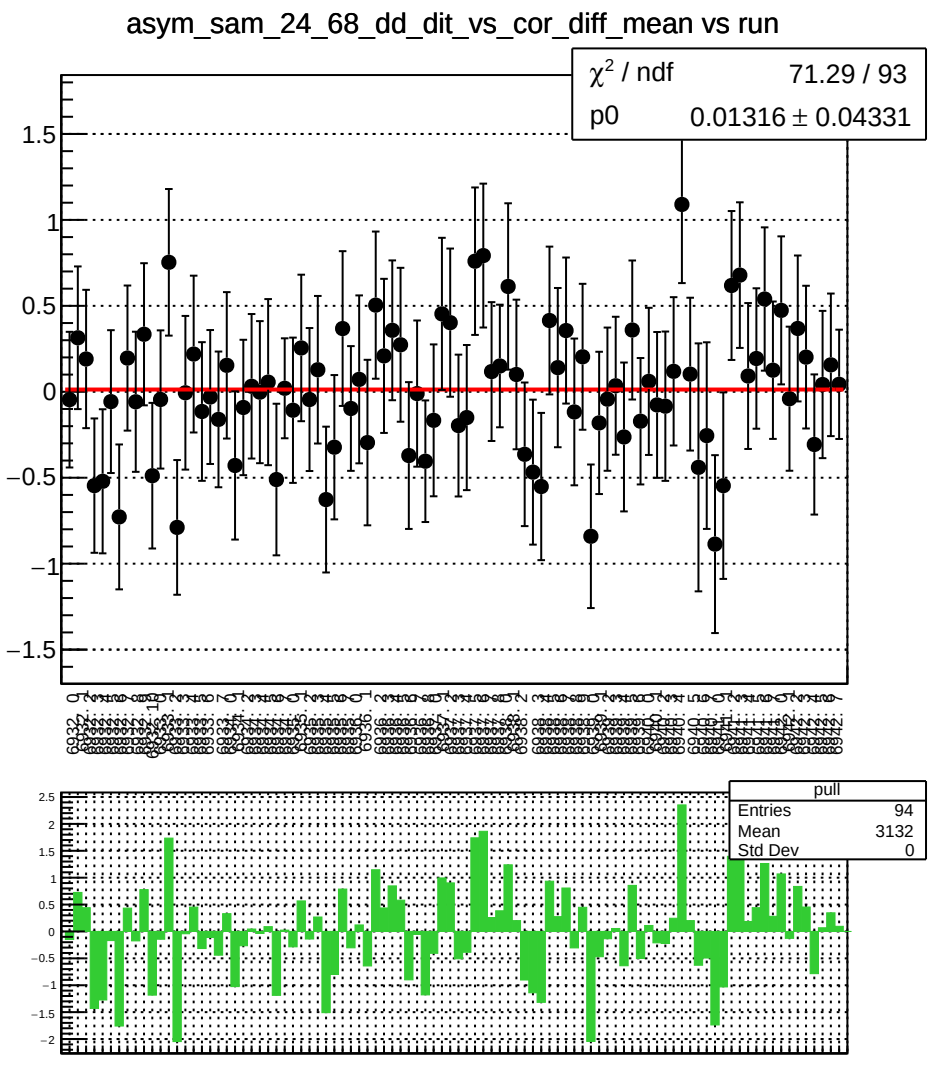

pull1D
Entries 94
Mean −0.0009095
Std Dev 0.9352

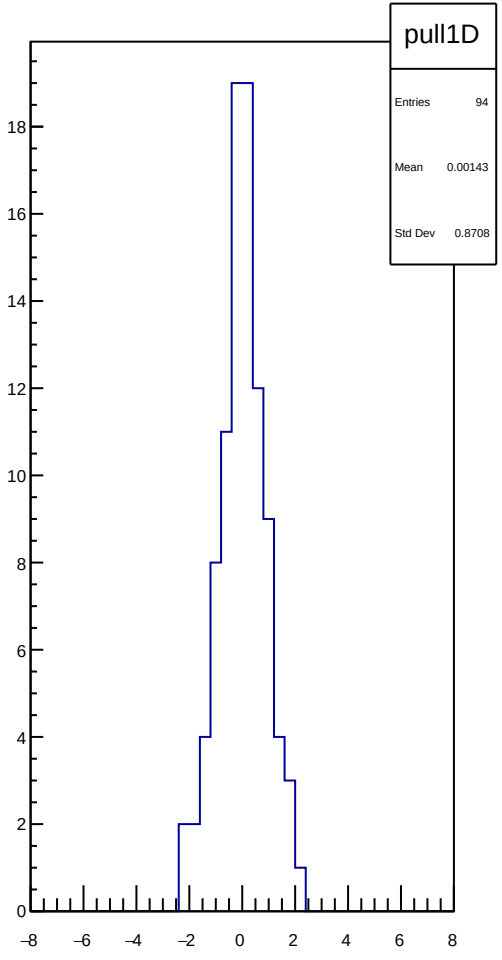

asym_sam_24_68_dd_rms vs run
χ² / ndf 1.407e+04 / 93
p0 1050 ± 0.7941
1400
1300
1200
1100
1000
900

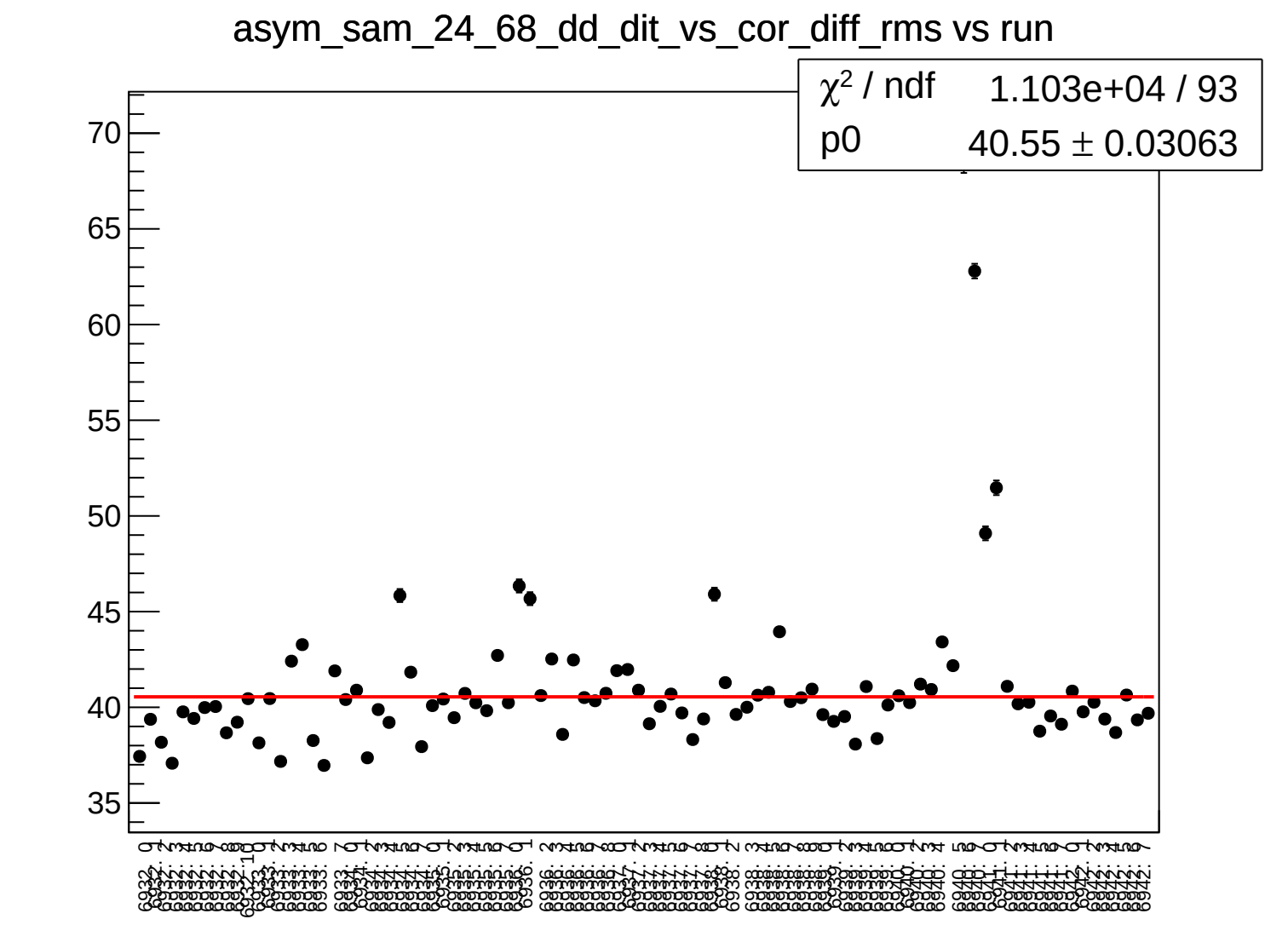

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.16 / 93
p0 −4.565e−14 ± 3.763e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 71.64
Std Dev 8.727
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

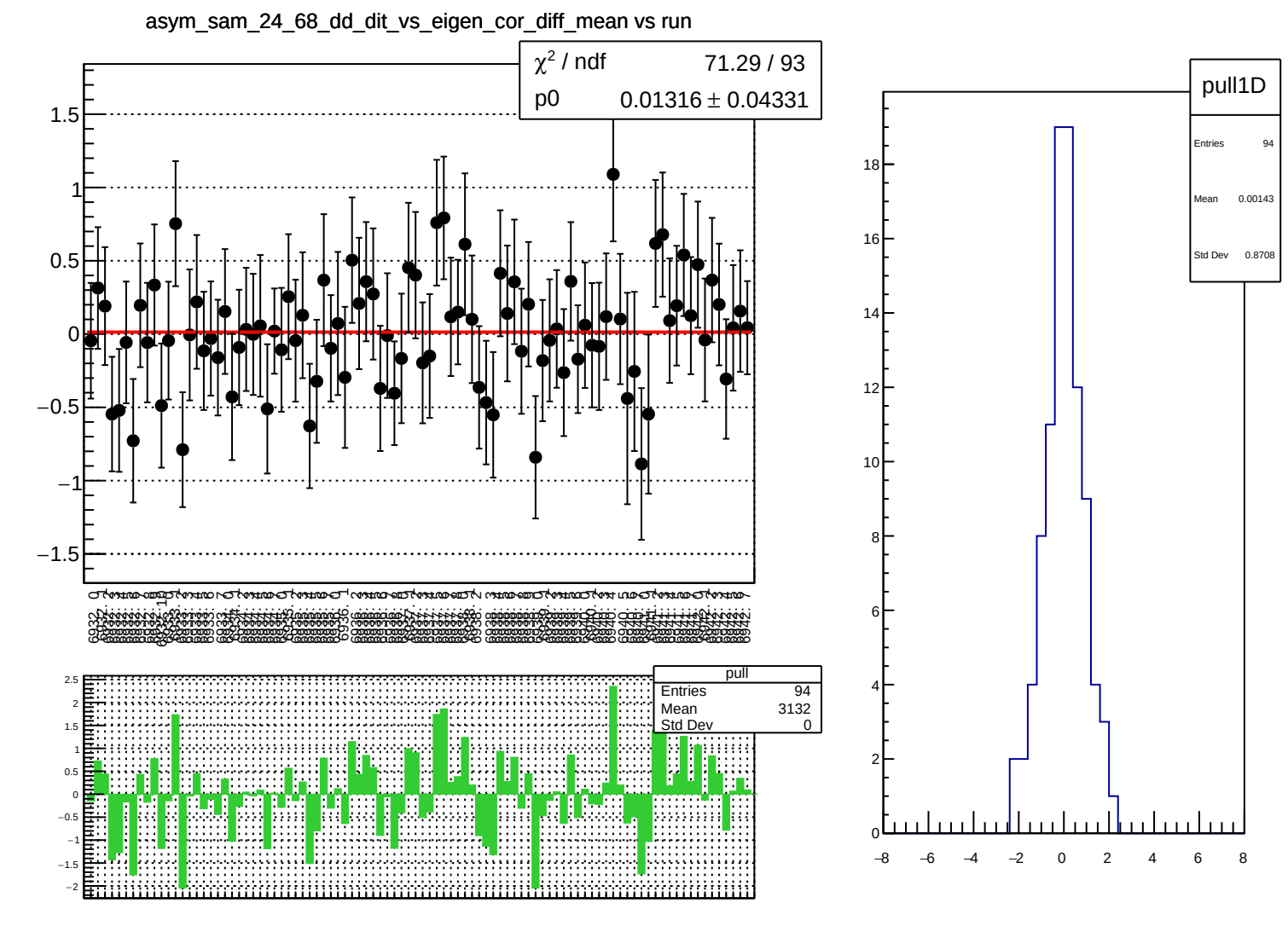

pull1D
Entries 94
Mean −0.1075
Std Dev 0.9401
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

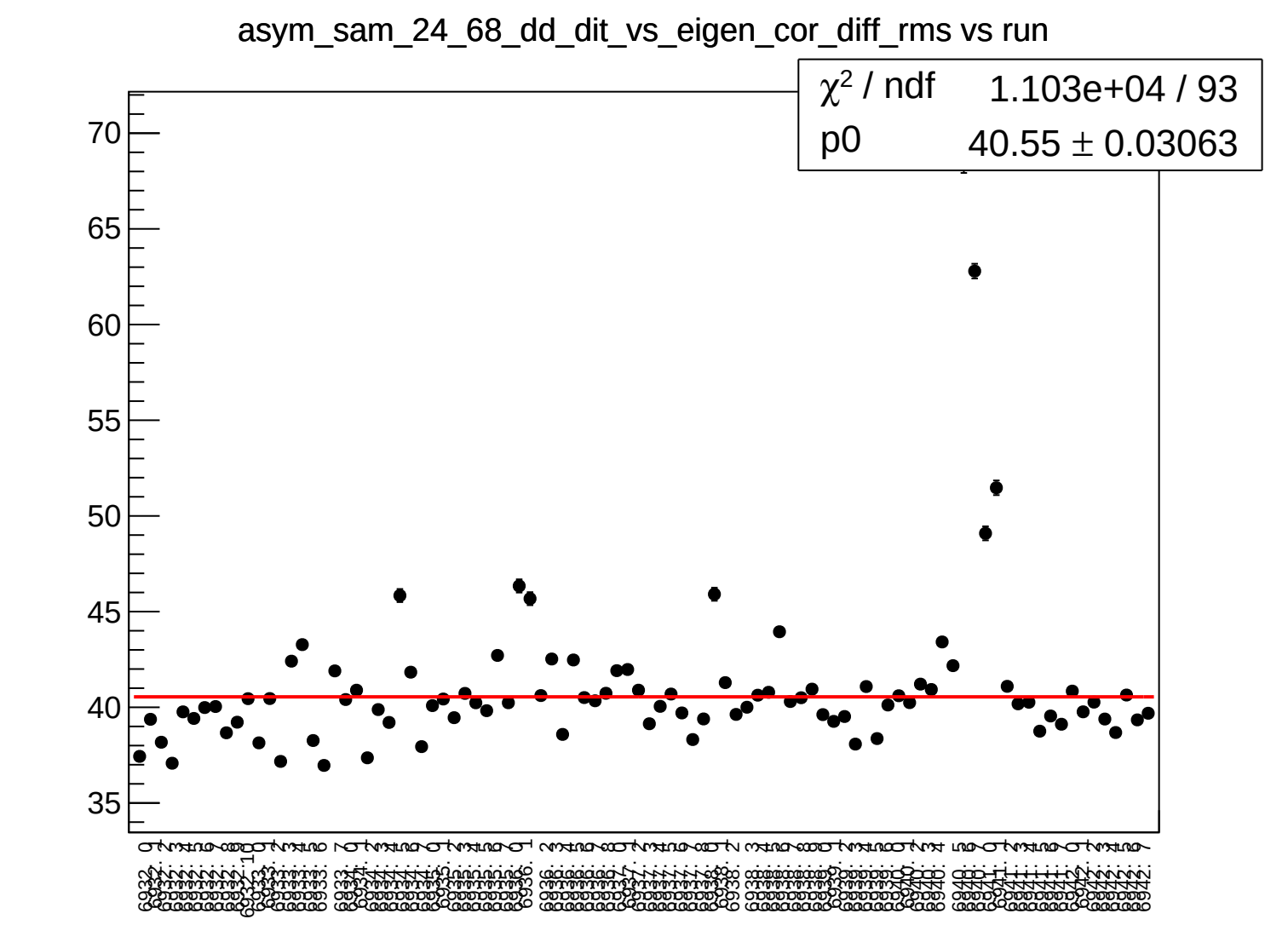

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.213e+06 / 93
p0 1.975e−11 ± 2.661e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

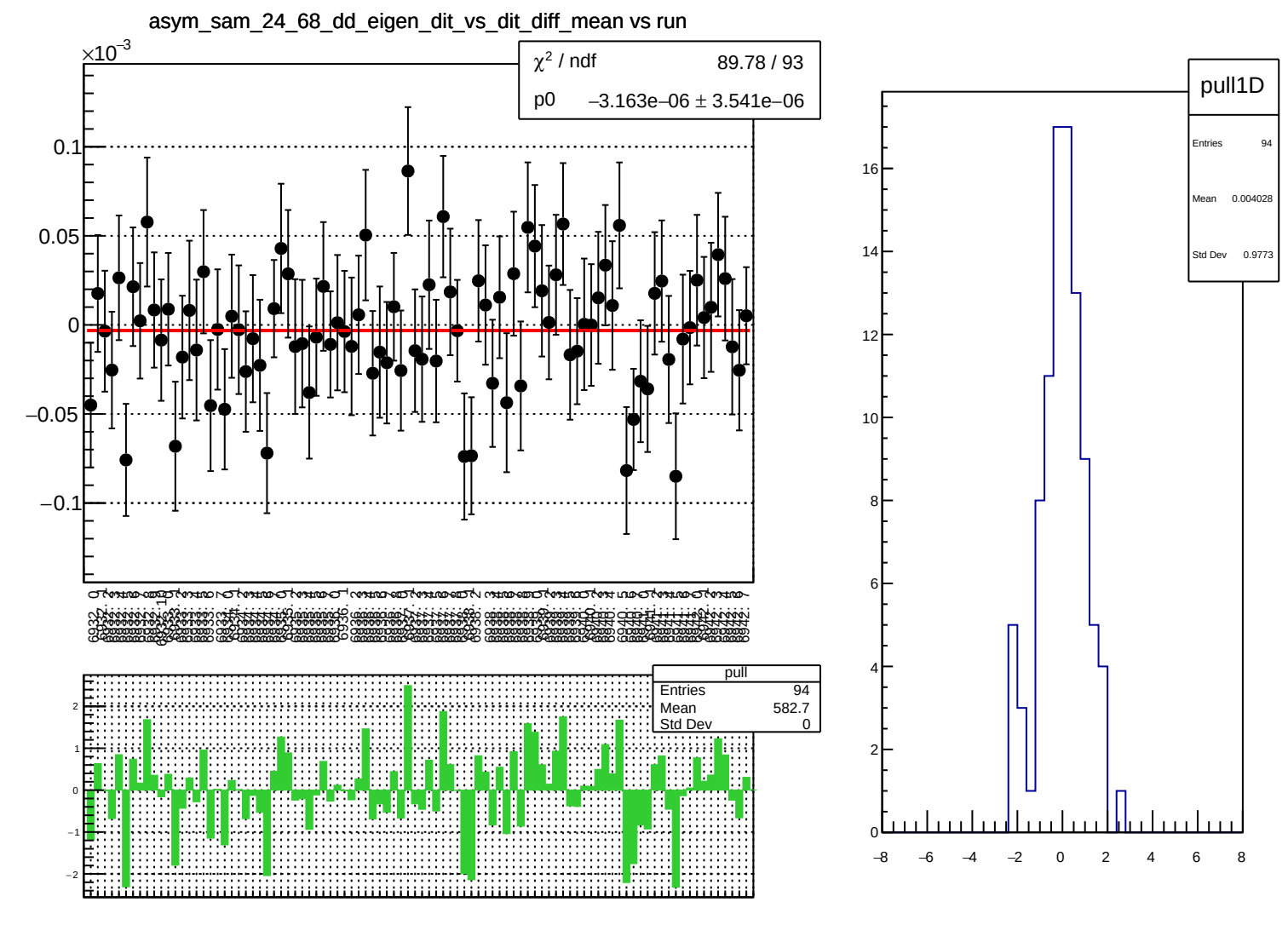

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 93
p0 0.01316 ± 0.04331
pull
Entries 94
Mean 3132
Std Dev 0

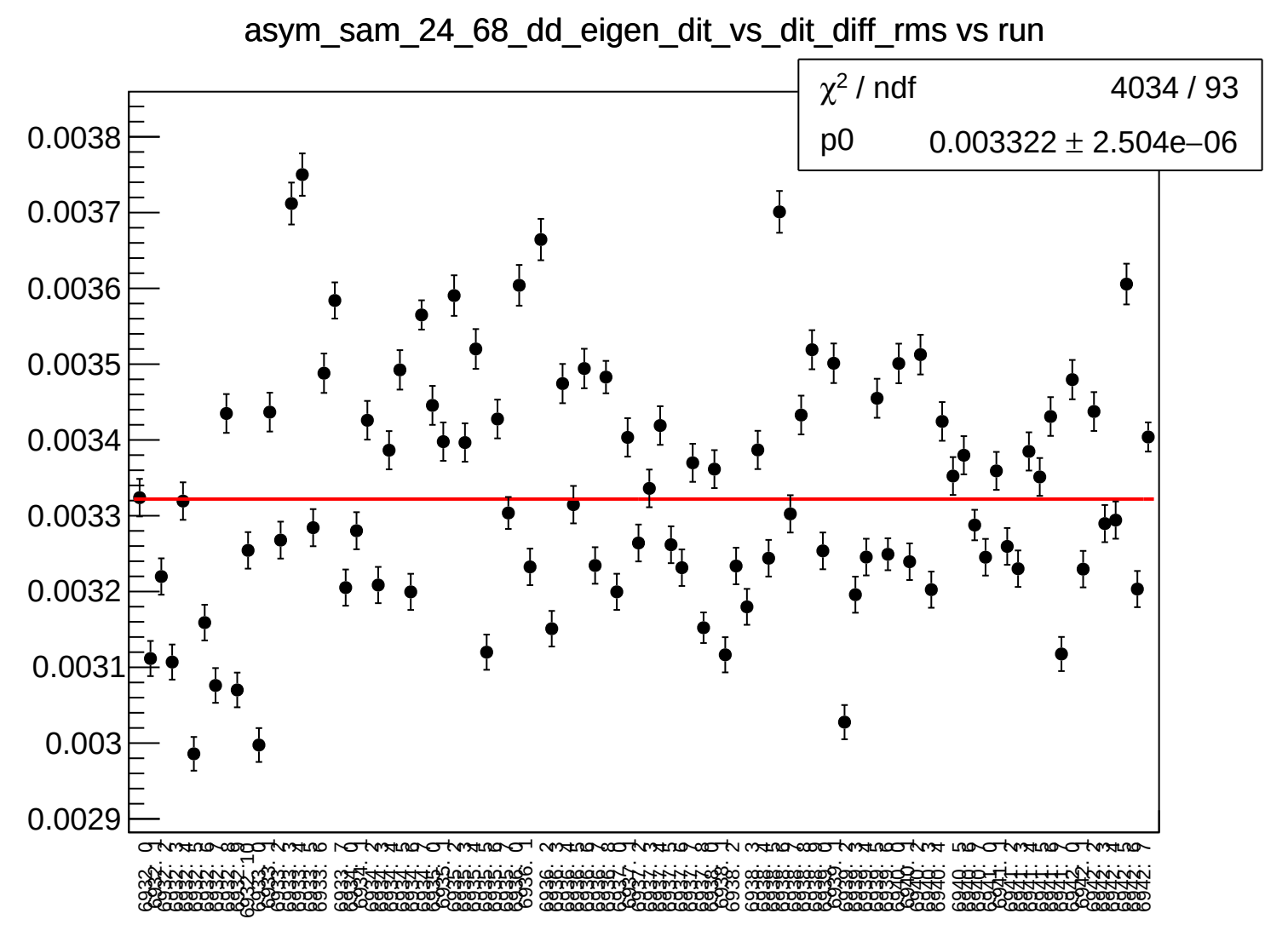

pull1D
Entries 94
Mean 0.00143
Std Dev 0.8708

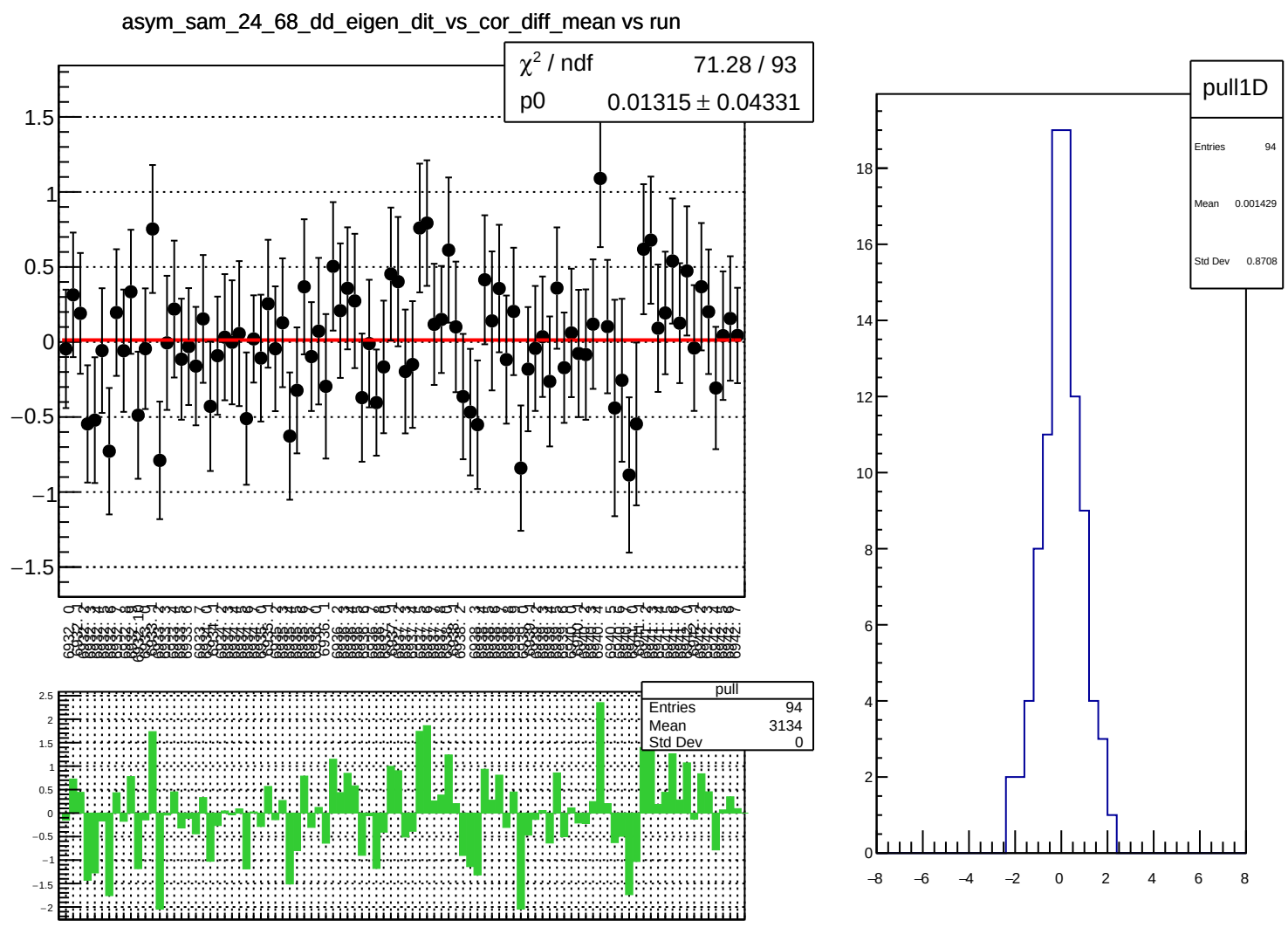

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.103e+04 / 93
p0 40.55 ± 0.03063
70
65
60
55
50
45
40
35

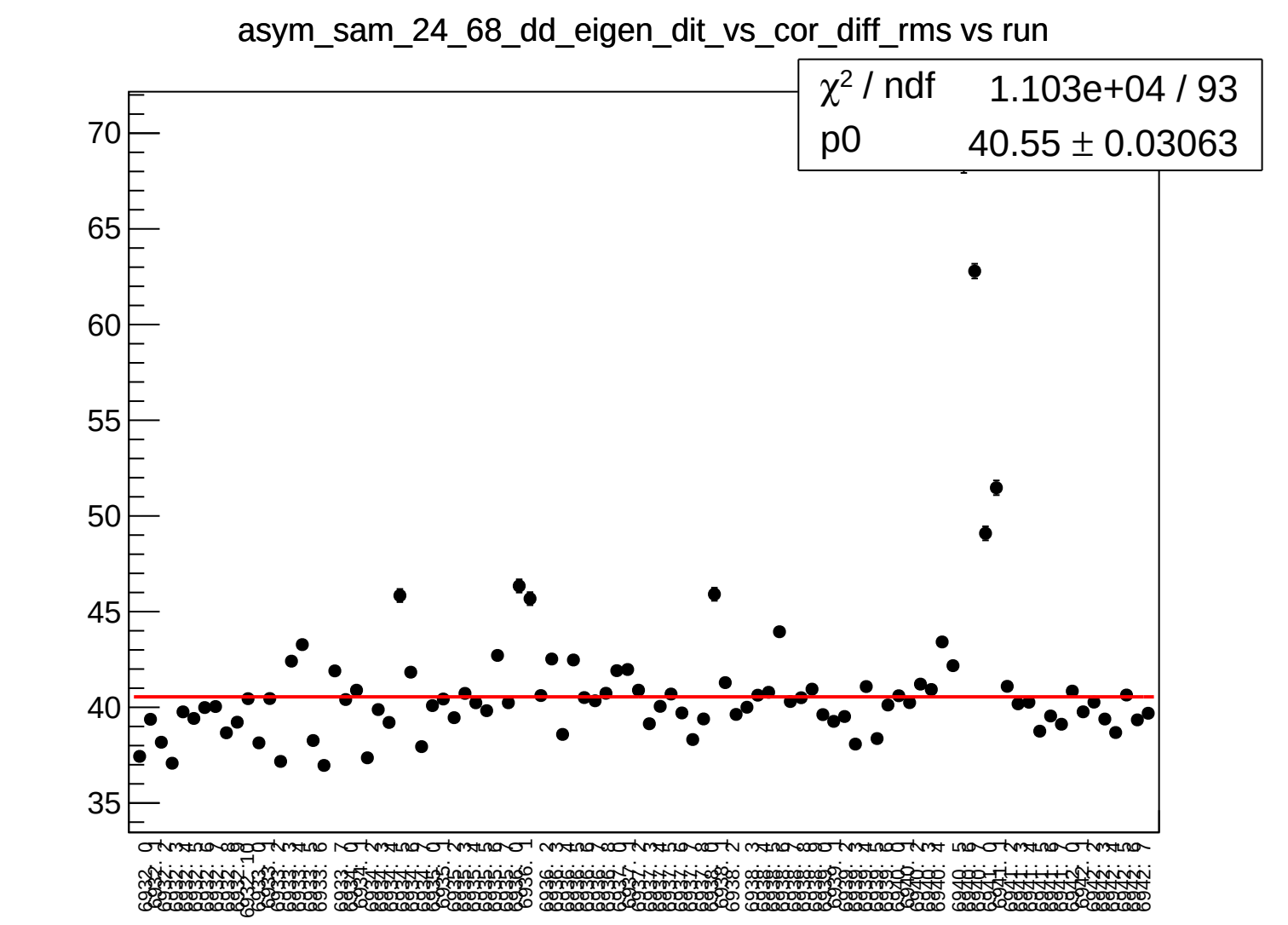

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.29 / 93
p0 0.01316 ± 0.04331
pull
Entries 94
Mean 3132
Std Dev 0
pull1D
Entries 94
Mean 0.00143
Std Dev 0.8708

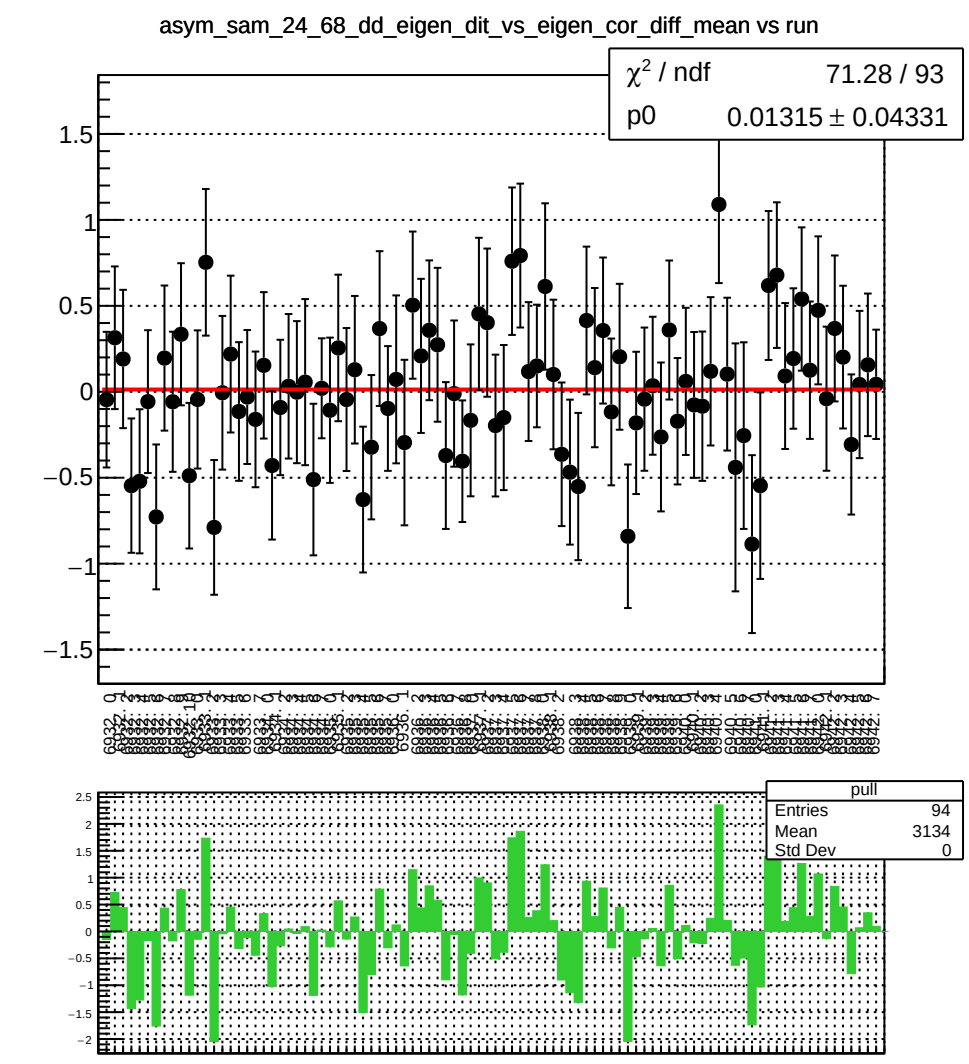

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.103e+04 / 93
p0 40.55 ± 0.03063
70
65
60
55
50
45
40
35

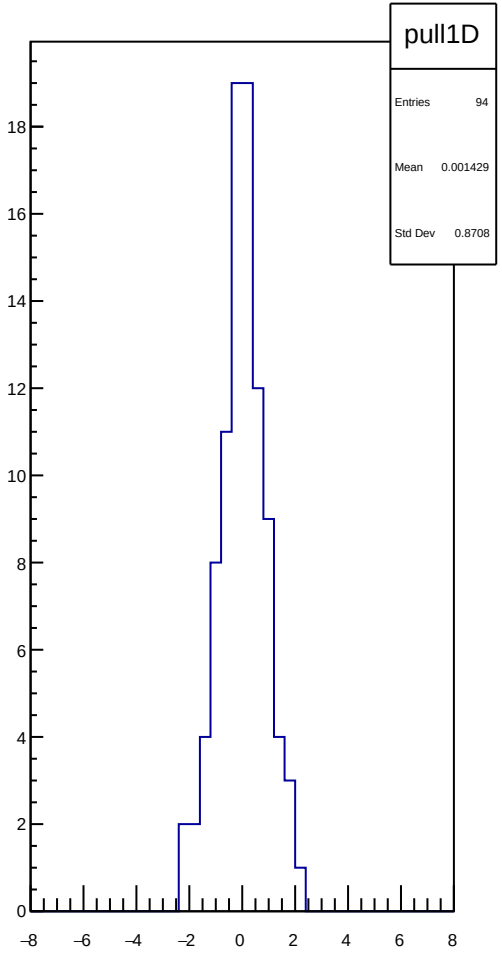

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.78 / 93
p0 −3.163e−06 ± 3.541e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 582.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004028
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

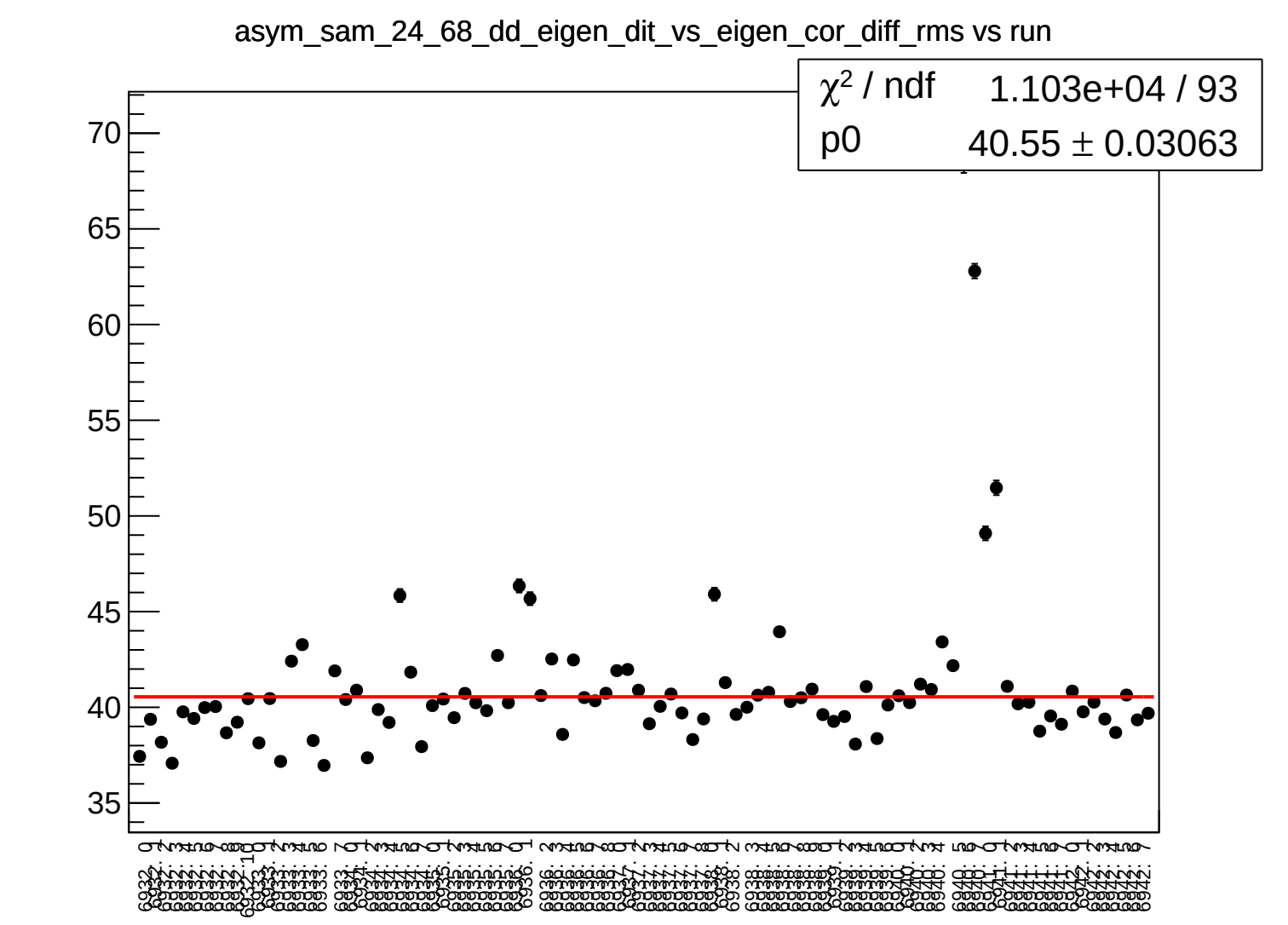

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4034 / 93
p0 0.003322 ± 2.504e−06
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

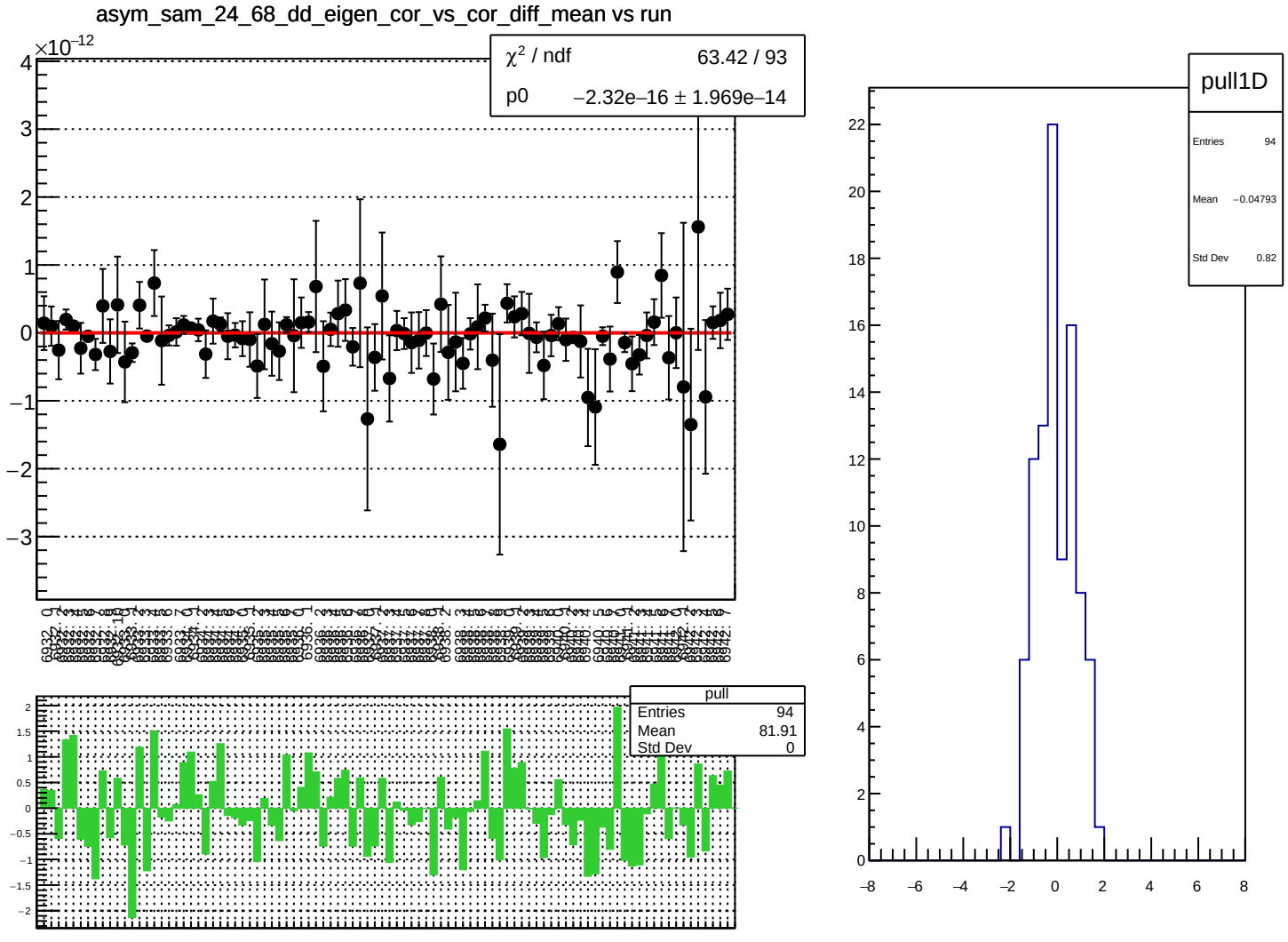

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.28 / 93
p0 0.01315 ± 0.04331
pull
Entries 94
Mean 3134
Std Dev 0
pull1D
Entries 94
Mean 0.001429
Std Dev 0.8708

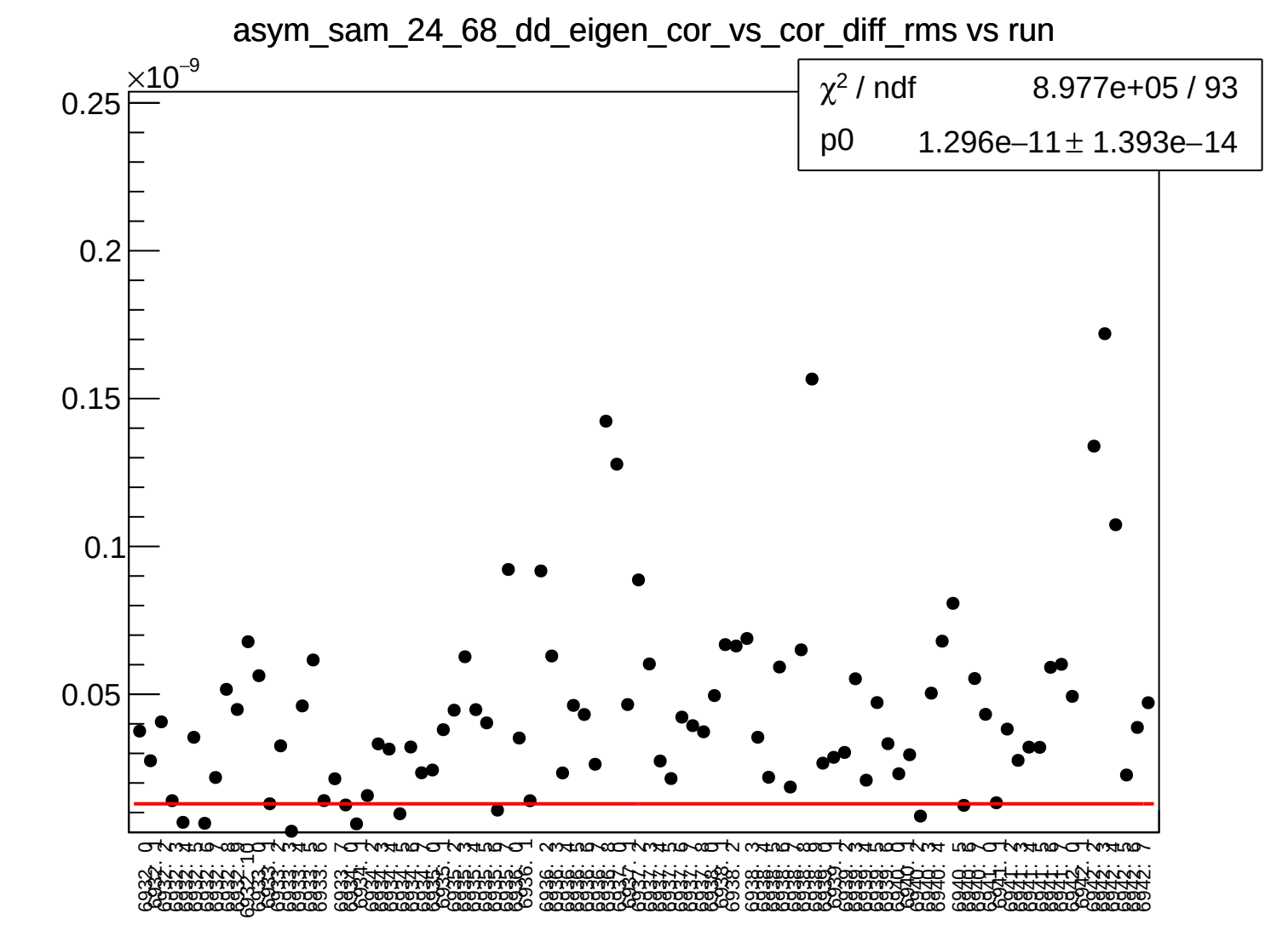

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.103e+04 / 93
p0 40.55 ± 0.03063
70
65
60
55
50
45
40
35

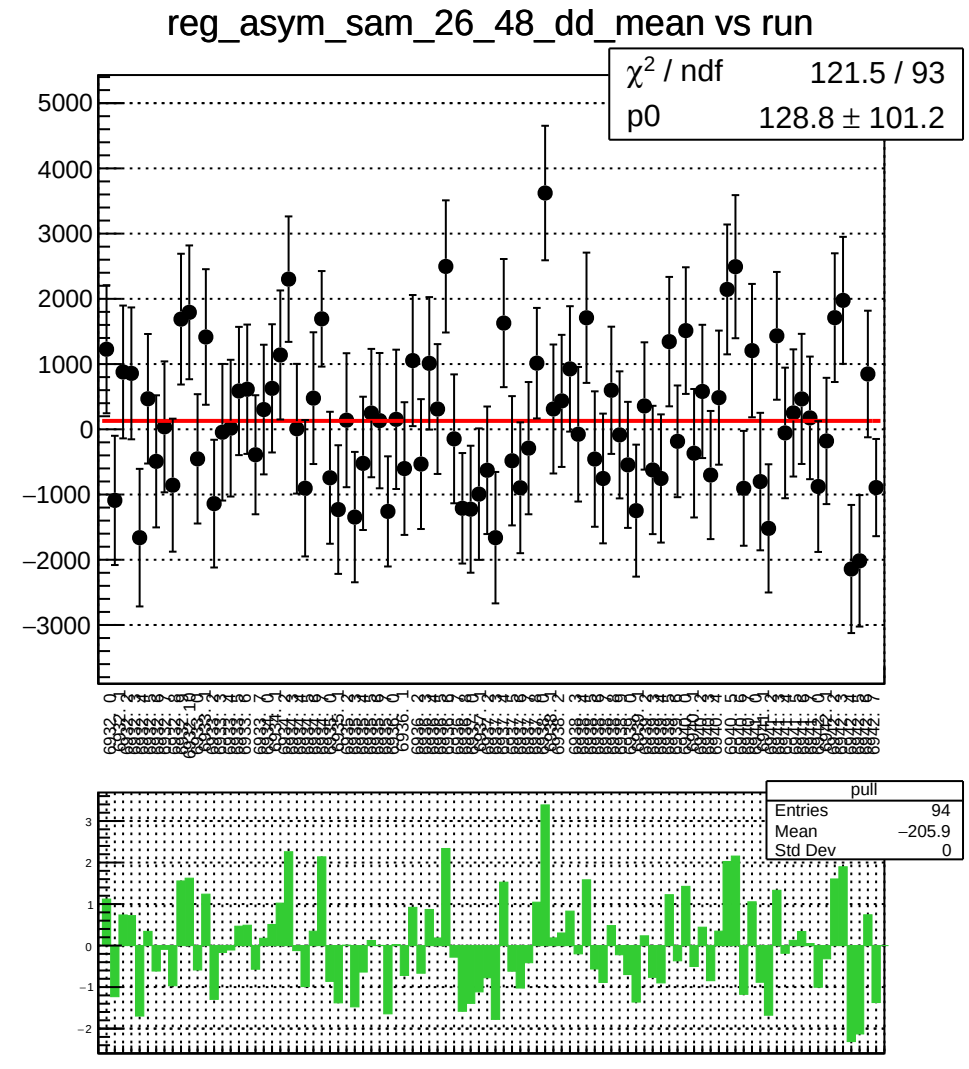

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.28 / 93
p0 0.01315 ± 0.04331
pull
Entries 94
Mean 3134
Std Dev 0

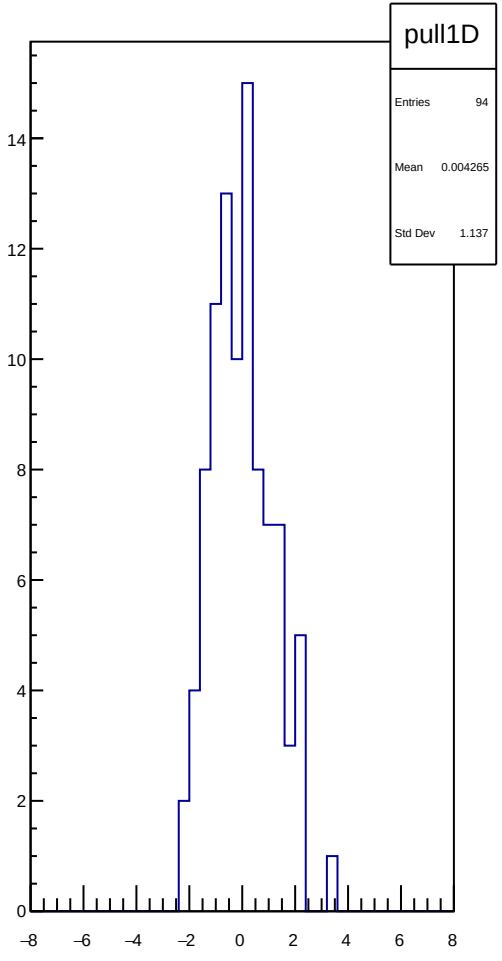

pull1D
Entries 94
Mean 0.001429
Std Dev 0.8708

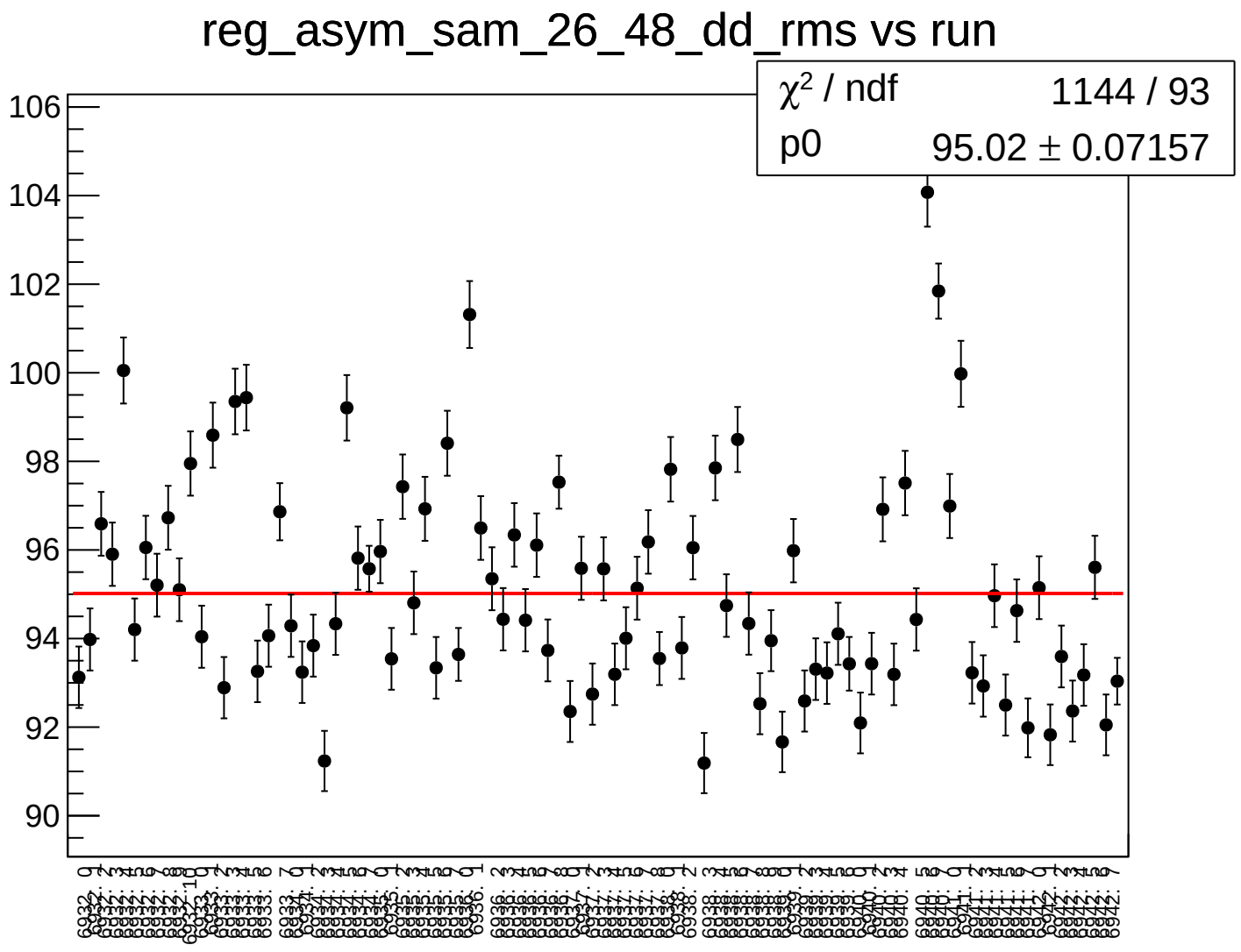

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.103e+04 / 93
p0 40.55 ± 0.03063
70
65
60
55
50
45
40
35

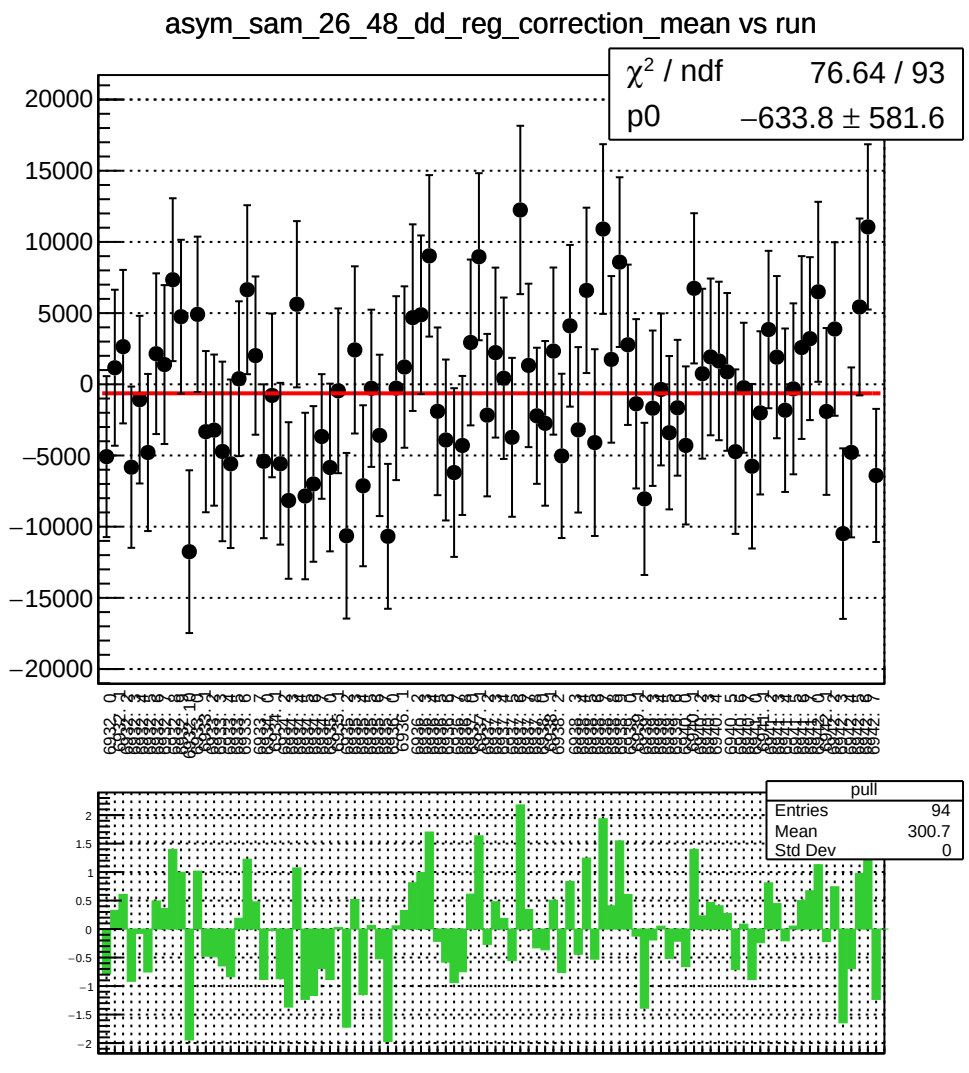

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 63.42 / 93
p0 −2.32e−16 ± 1.969e−14
pull
Entries 94
Mean 81.91
Std Dev 0
pull1D
Entries 94
Mean −0.04793
Std Dev 0.82

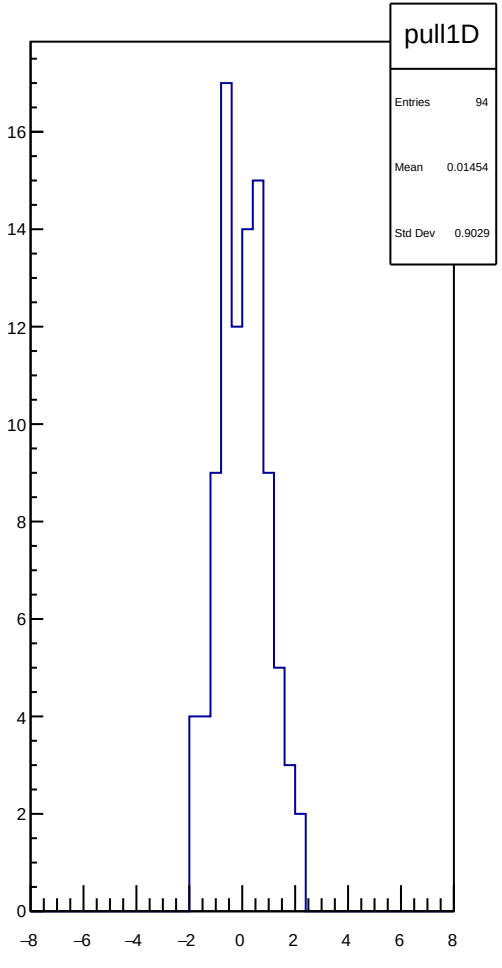

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.977e+05 / 93
p0 1.296e−11 ± 1.393e−14

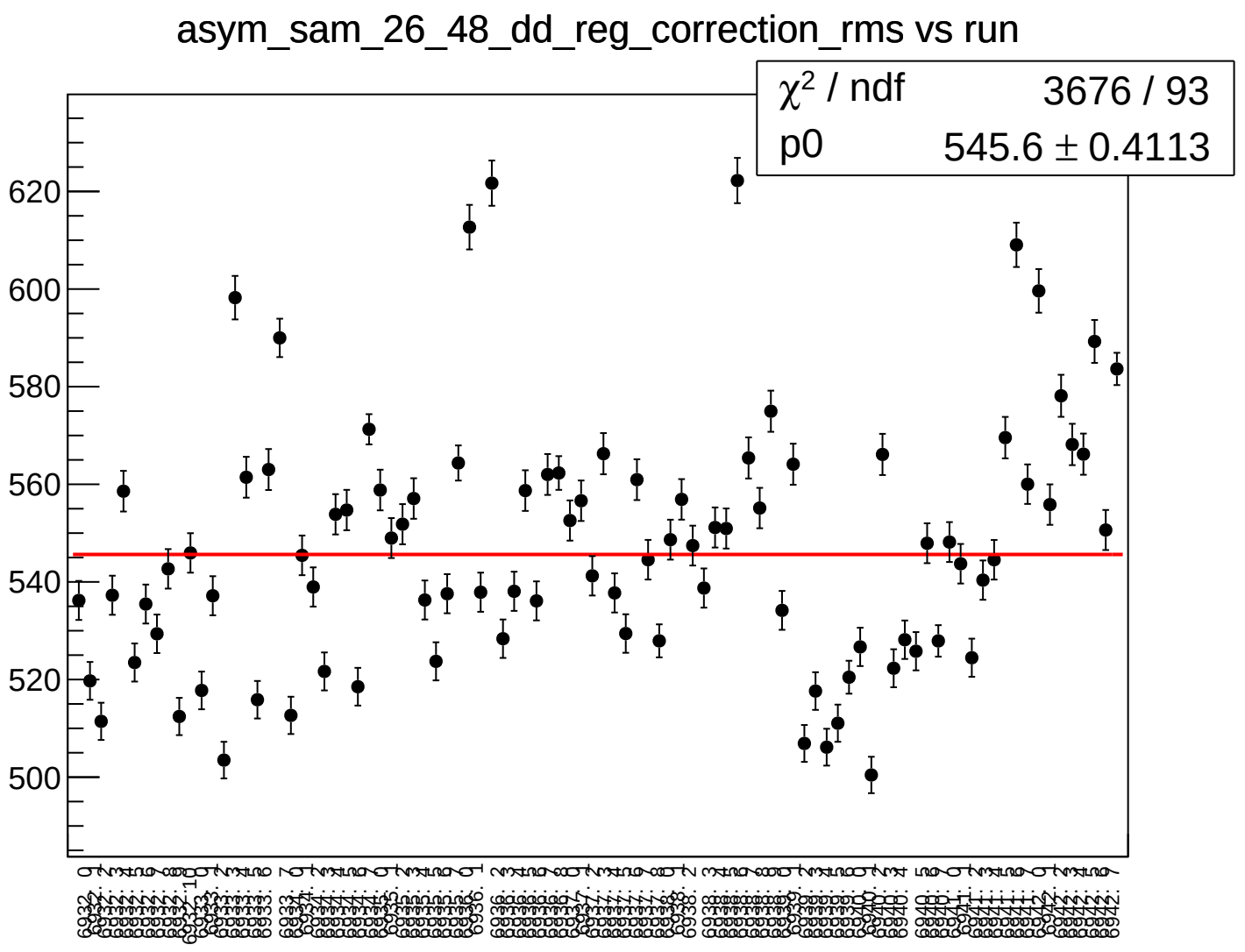

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 121.5 / 93
p0 128.8 ± 101.2
pull
Entries 94
Mean −205.9
Std Dev 0

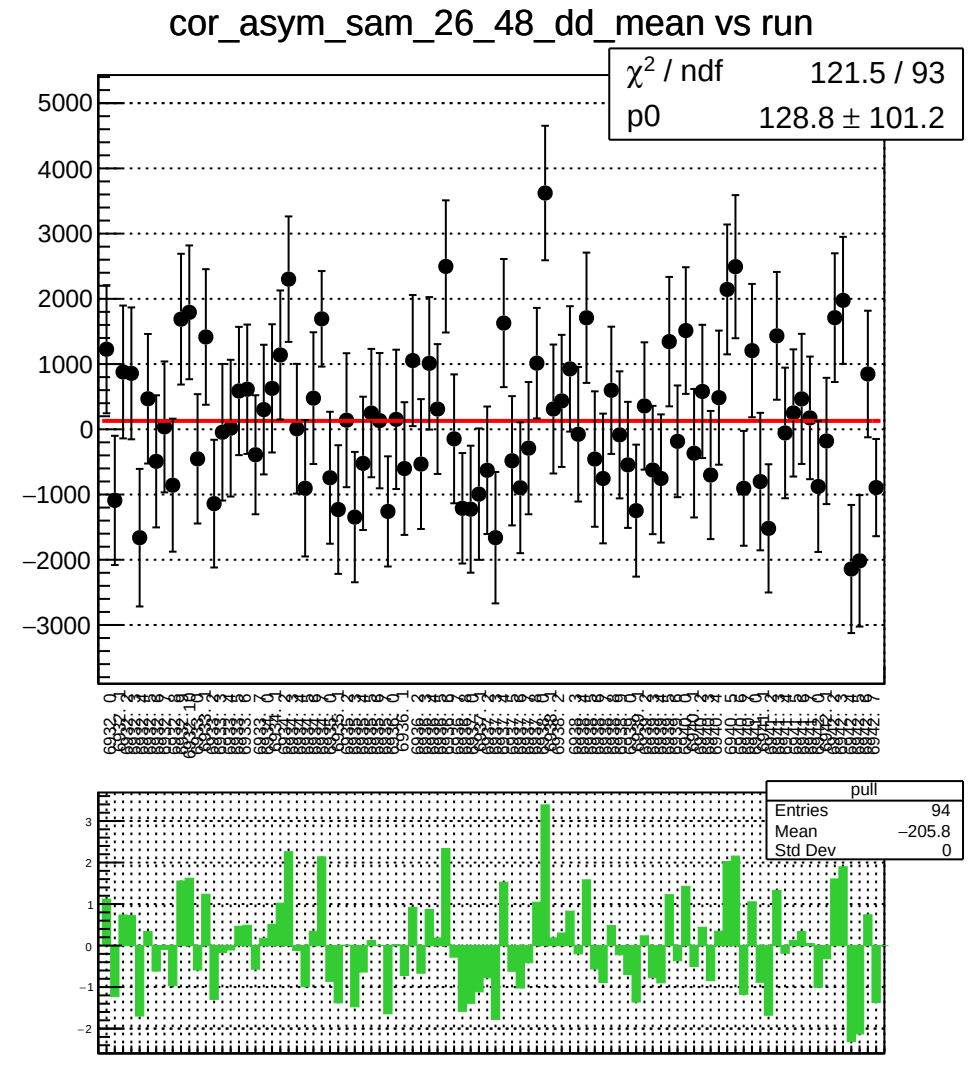

pull1D
Entries 94
Mean 0.004265
Std Dev 1.137

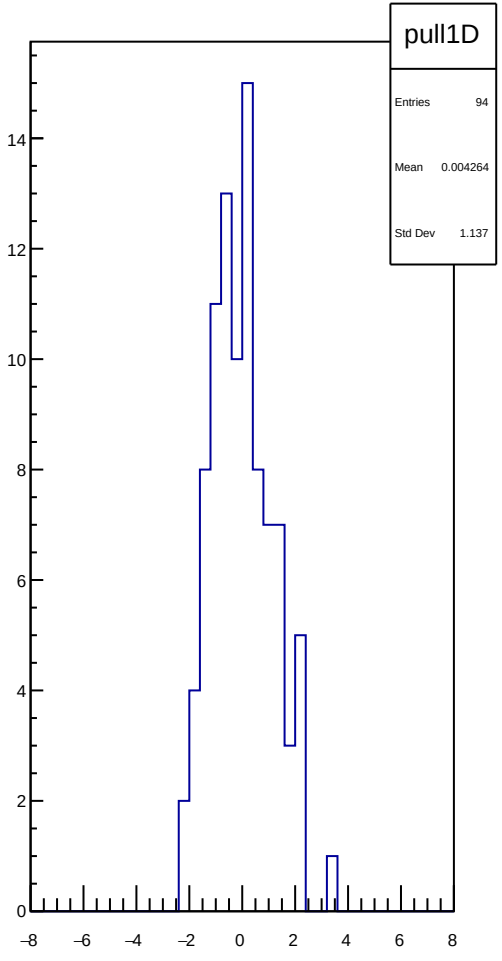

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1144 / 93
p0 95.02 ± 0.07157
106
104
102
100
98
96
94
92
90

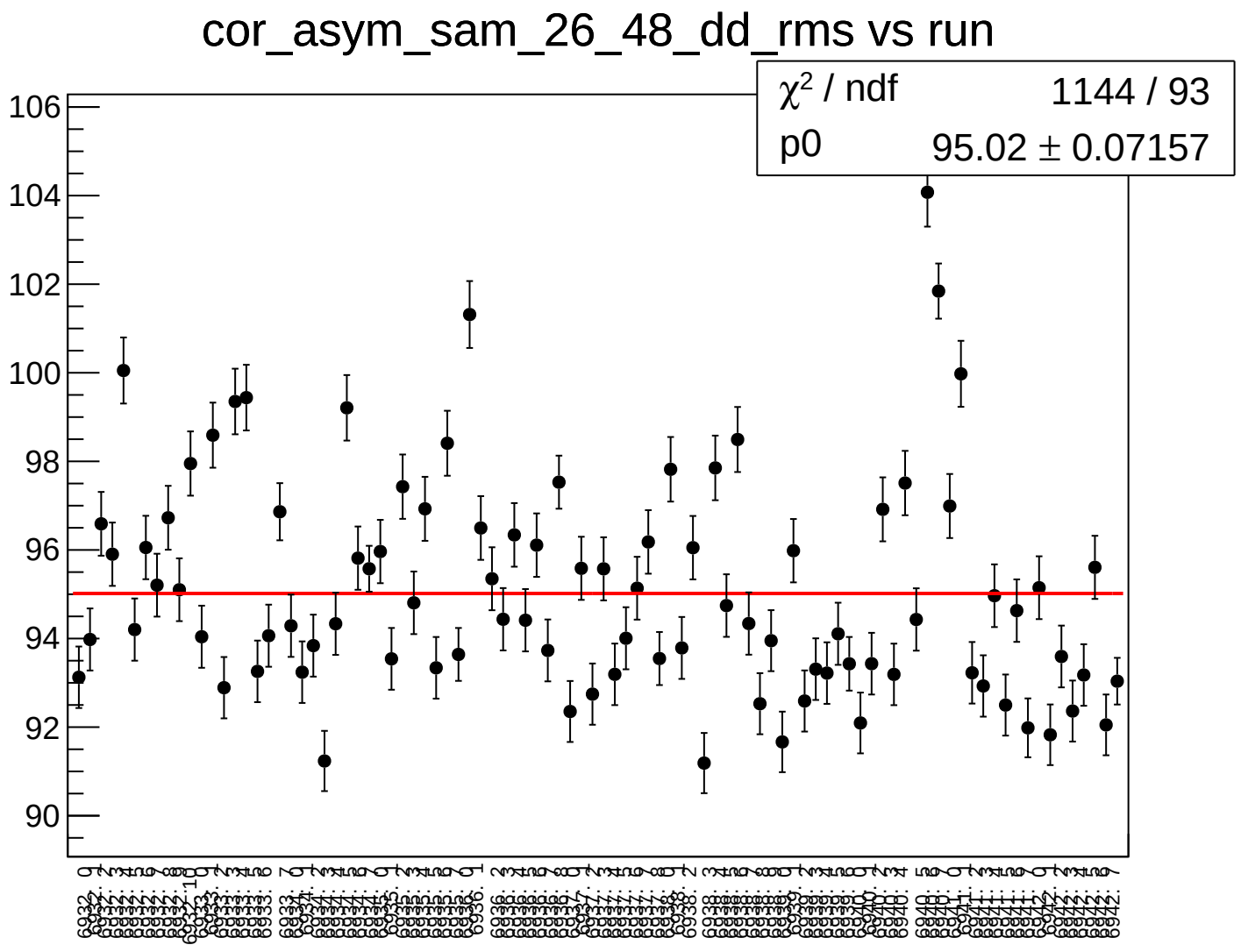

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 76.64 / 93
p0 −633.8 ± 581.6
pull
Entries 94
Mean 300.7
Std Dev 0

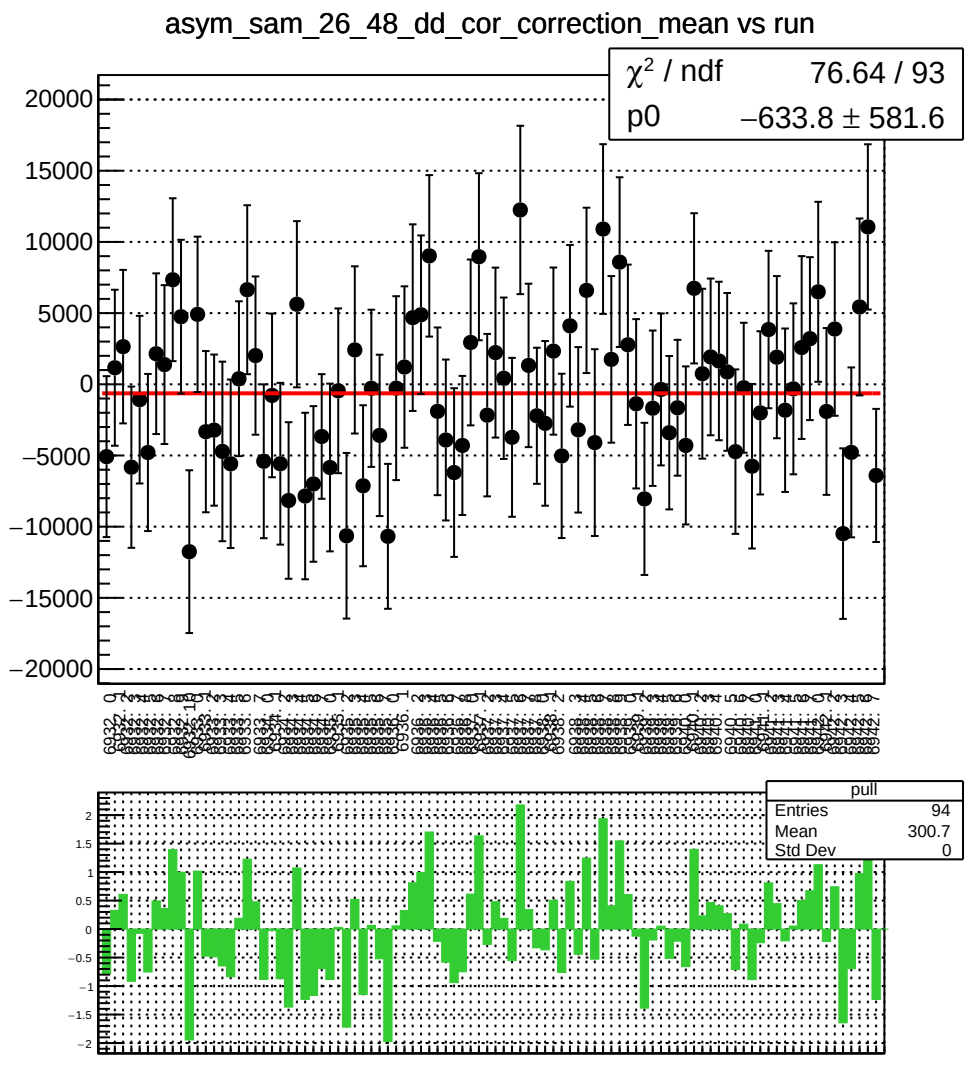

pull1D
Entries 94
Mean 0.01454
Std Dev 0.9029

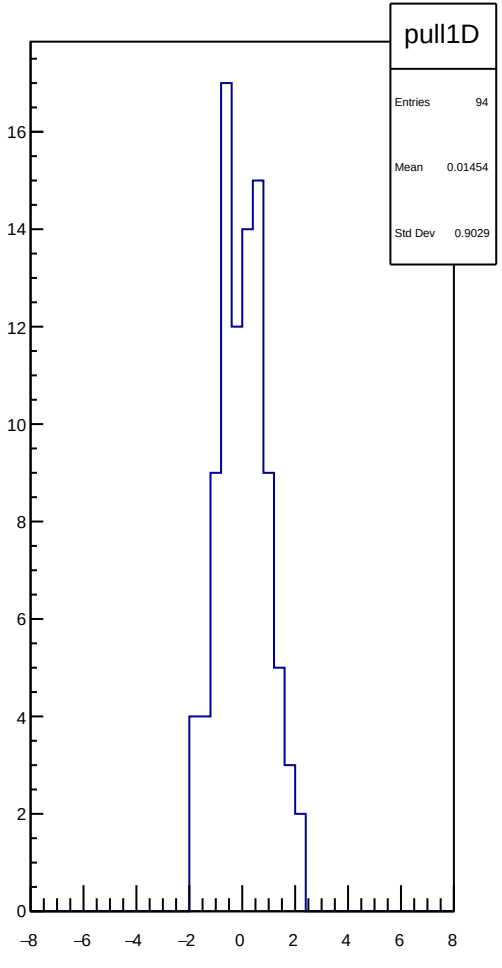

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3676 / 93
p0 545.6 ± 0.4113
620
600
580
560
540
520
500

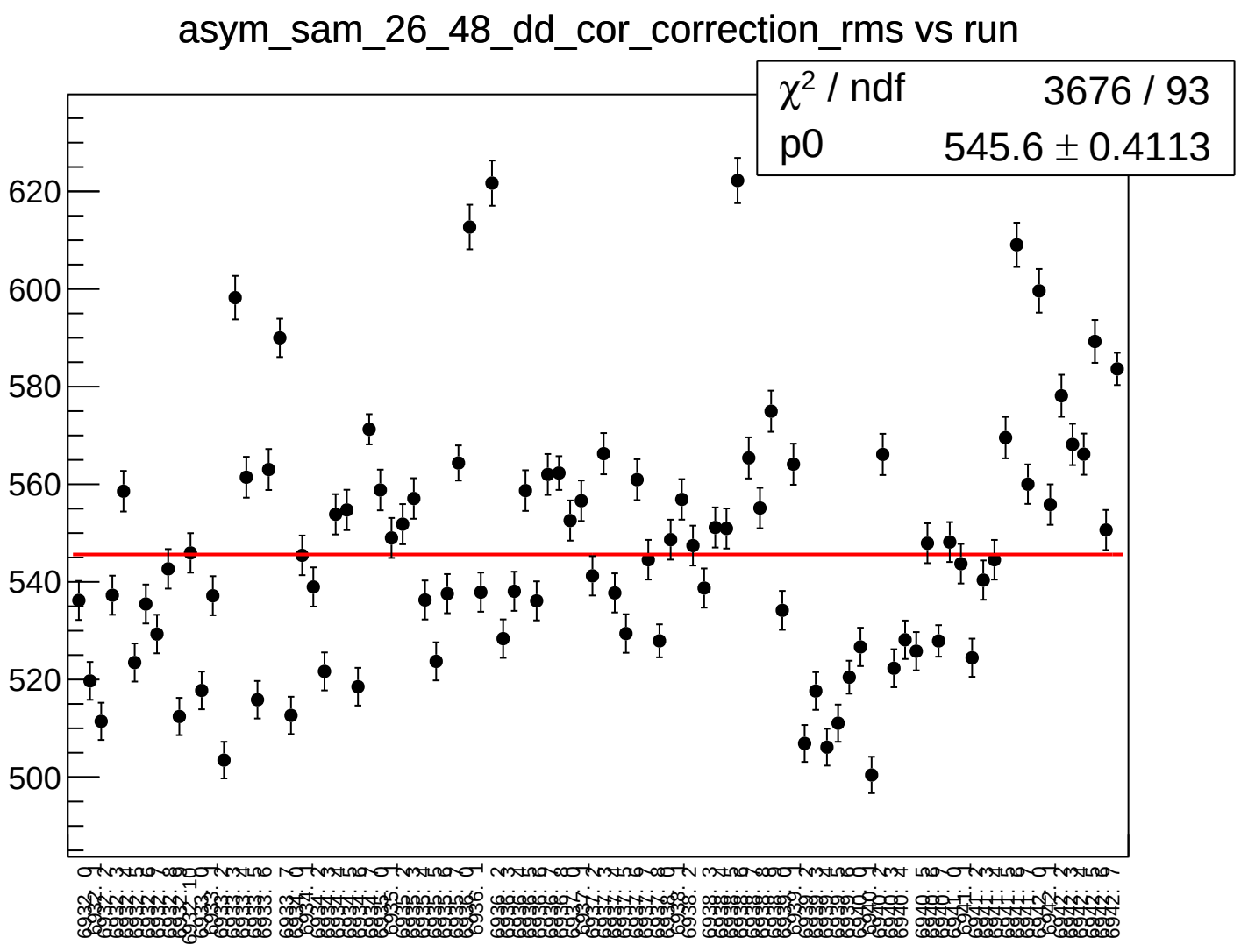

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 121.5 / 93
p0 128.8 ± 101.2
pull
Entries 94
Mean −205.8
Std Dev 0

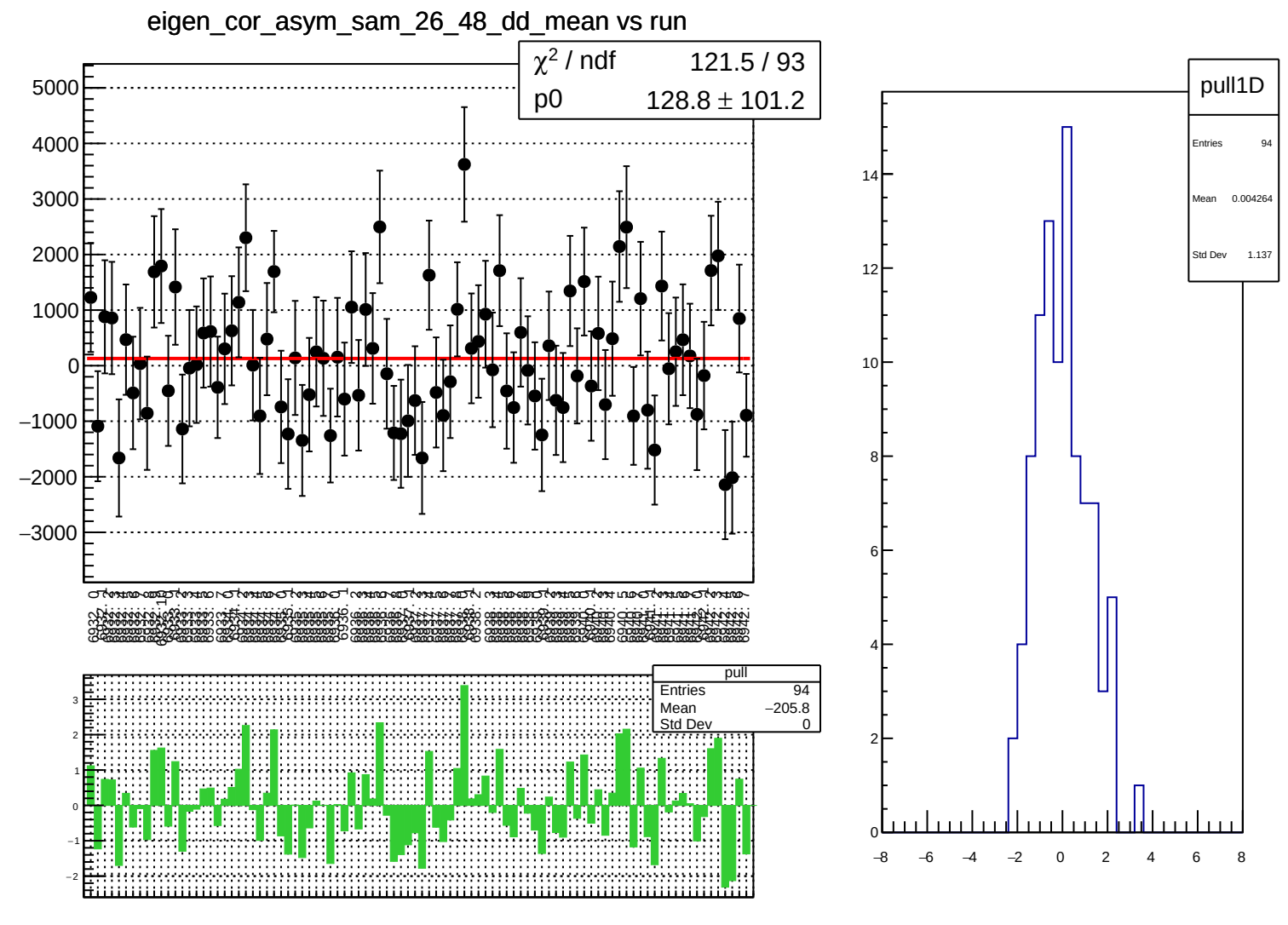

pull1D
Entries 94
Mean 0.004264
Std Dev 1.137

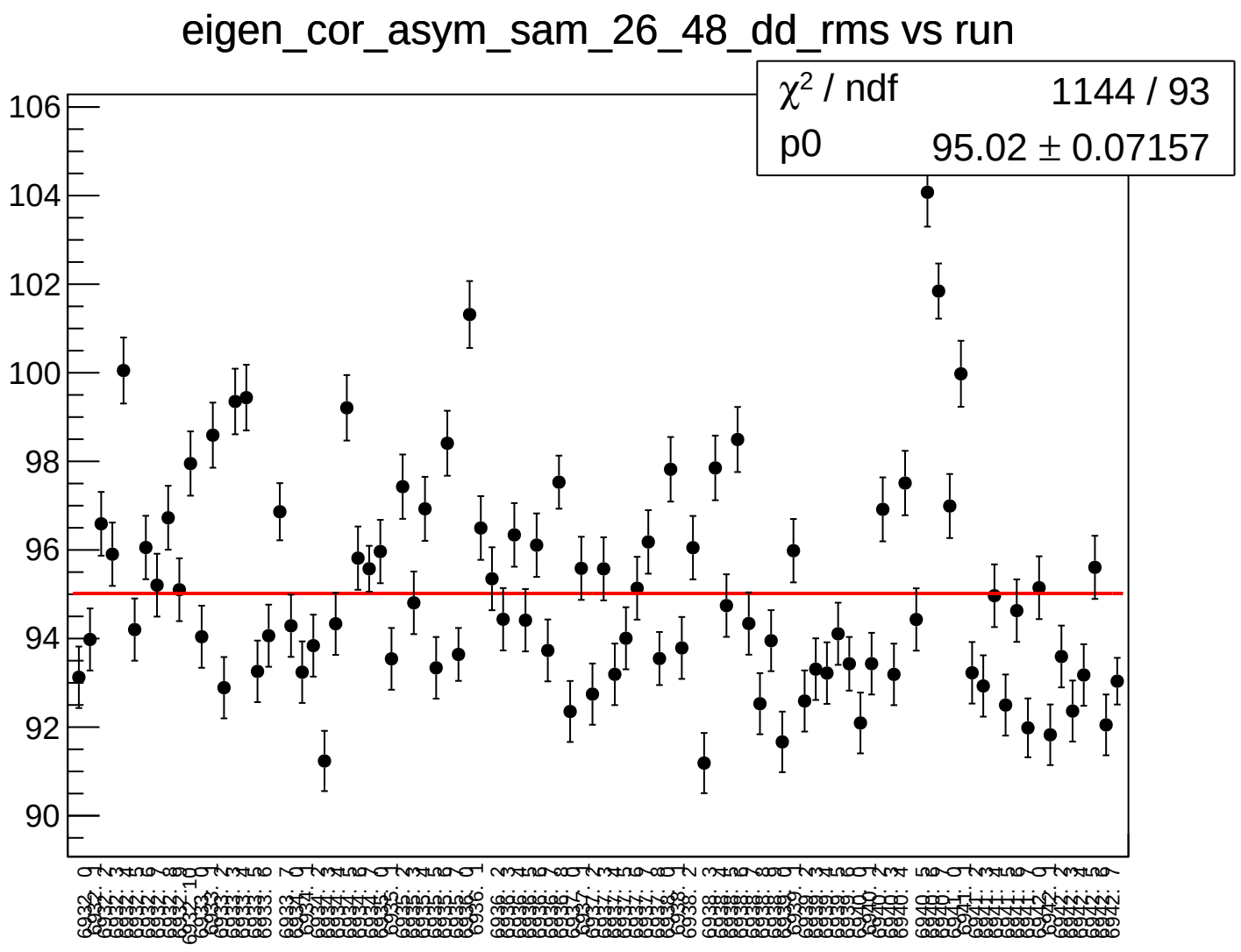

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1144 / 93
p0 95.02 ± 0.07157
106
104
102
100
98
96
94
92
90

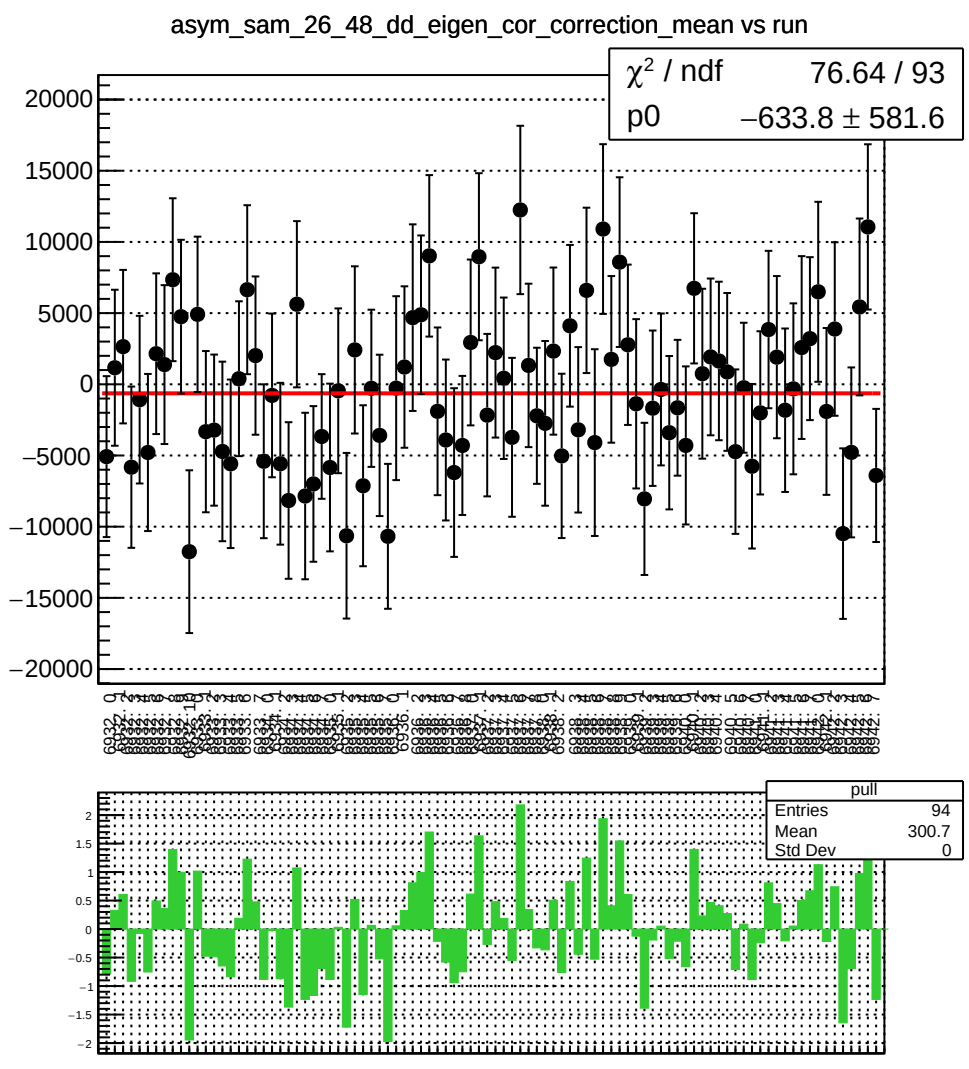

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 76.64 / 93
p0 −633.8 ± 581.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 300.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

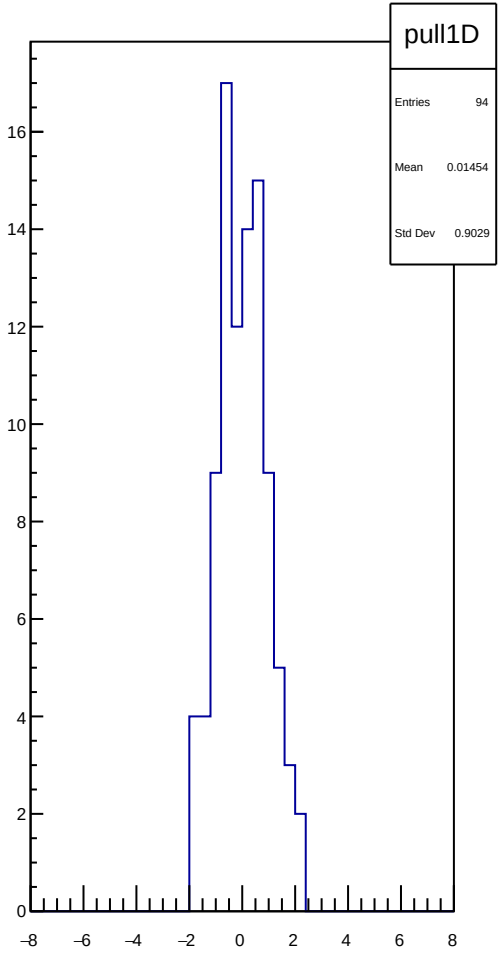

pull1D
Entries 94
Mean 0.01454
Std Dev 0.9029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

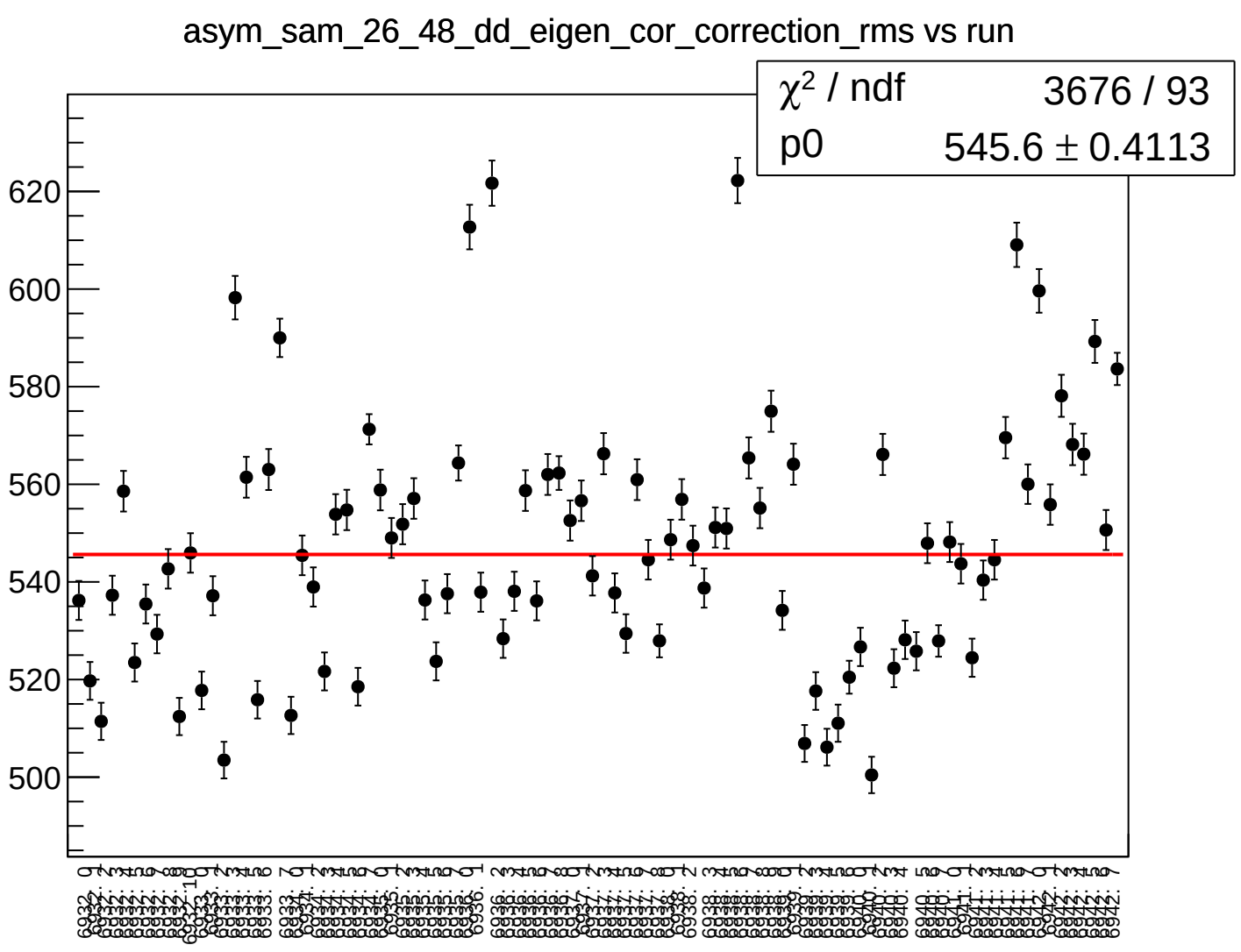

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3676 / 93
p0 545.6 ± 0.4113
620
600
580
560
540
520
500

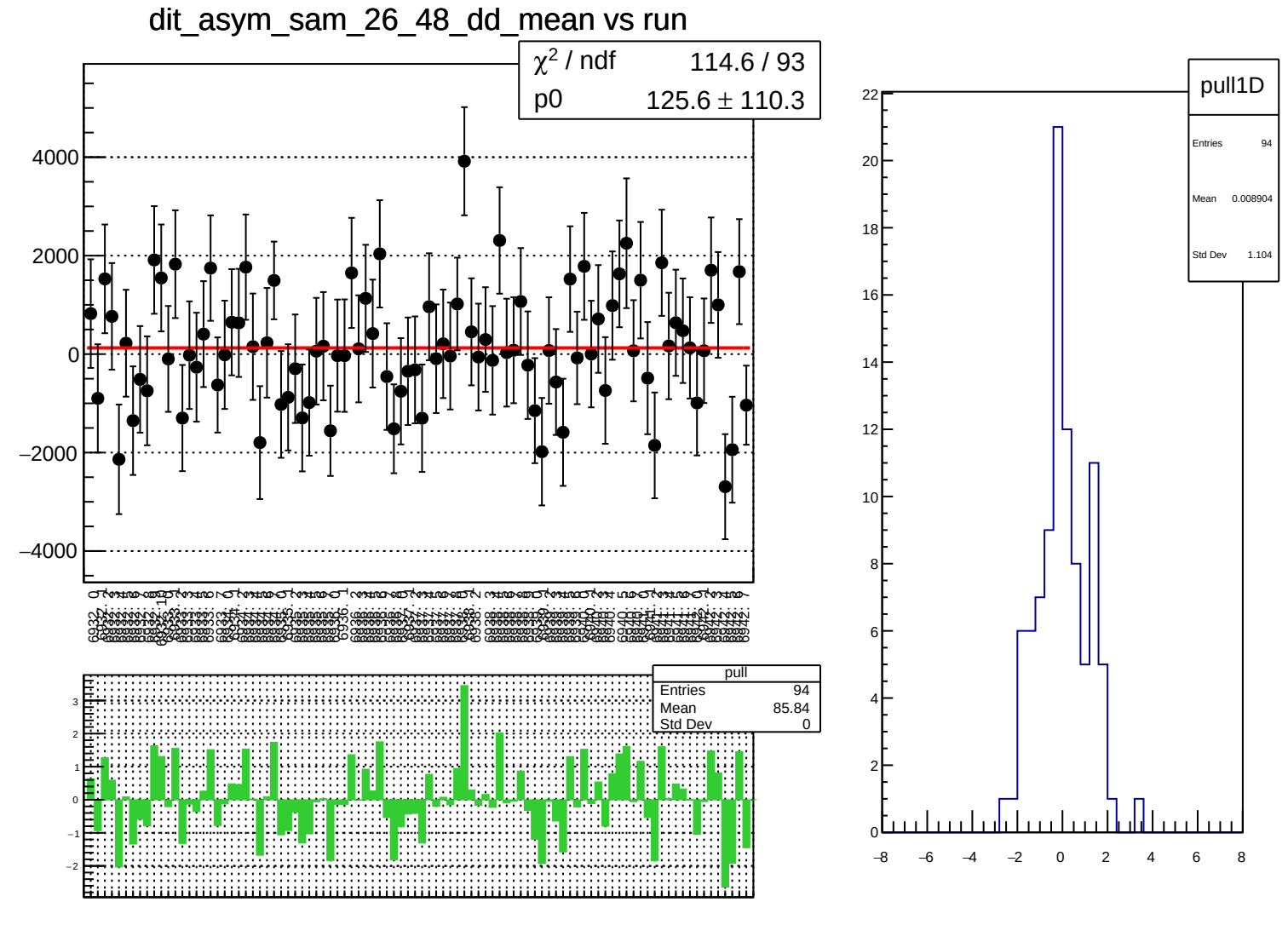

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 121.5 / 93
p0 128.8 ± 101.2
pull
Entries 94
Mean −205.8
Std Dev 0
pull1D
Entries 94
Mean 0.004264
Std Dev 1.137

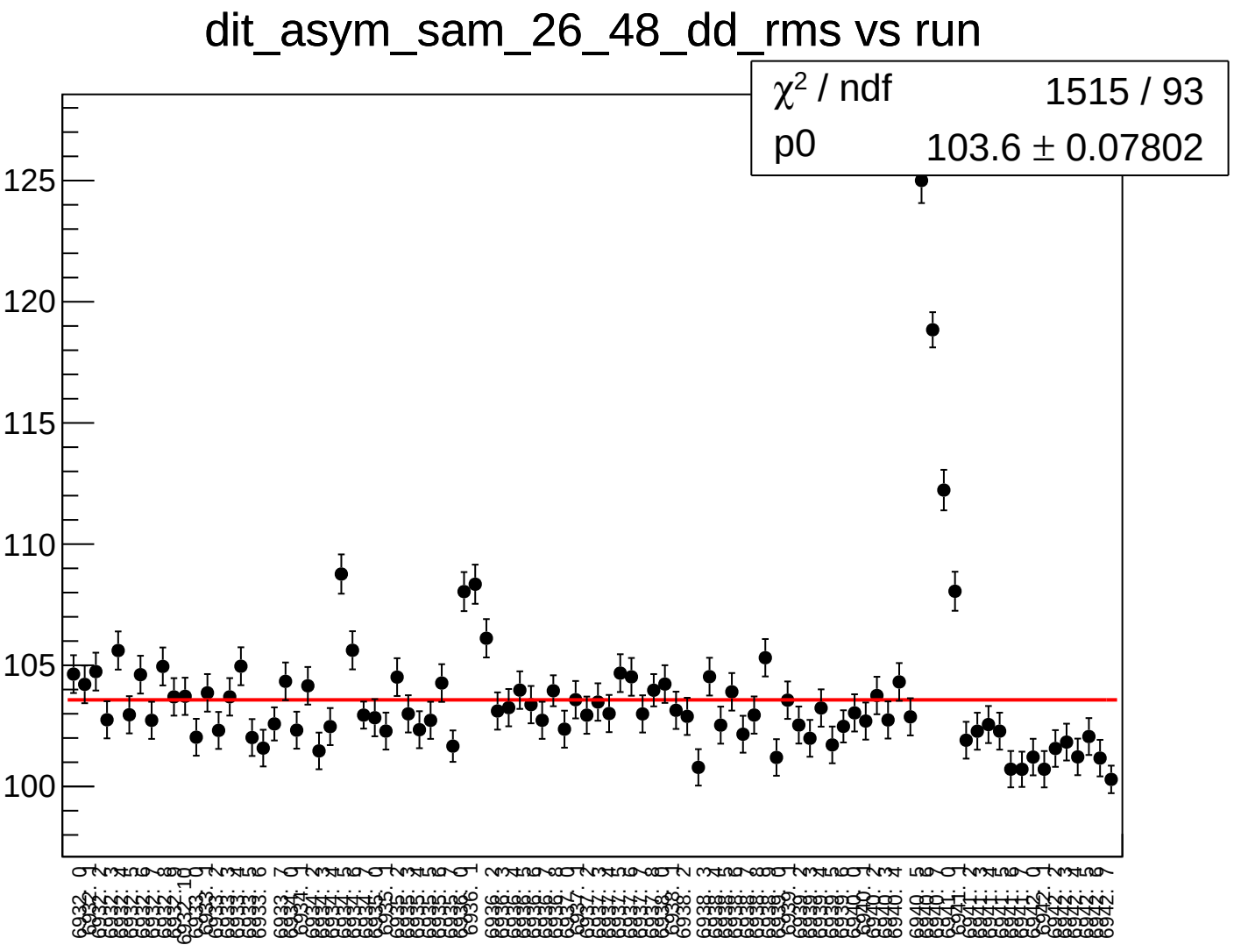

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1144 / 93
p0 95.02 ± 0.07157
106
104
102
100
98
96
94
92
90

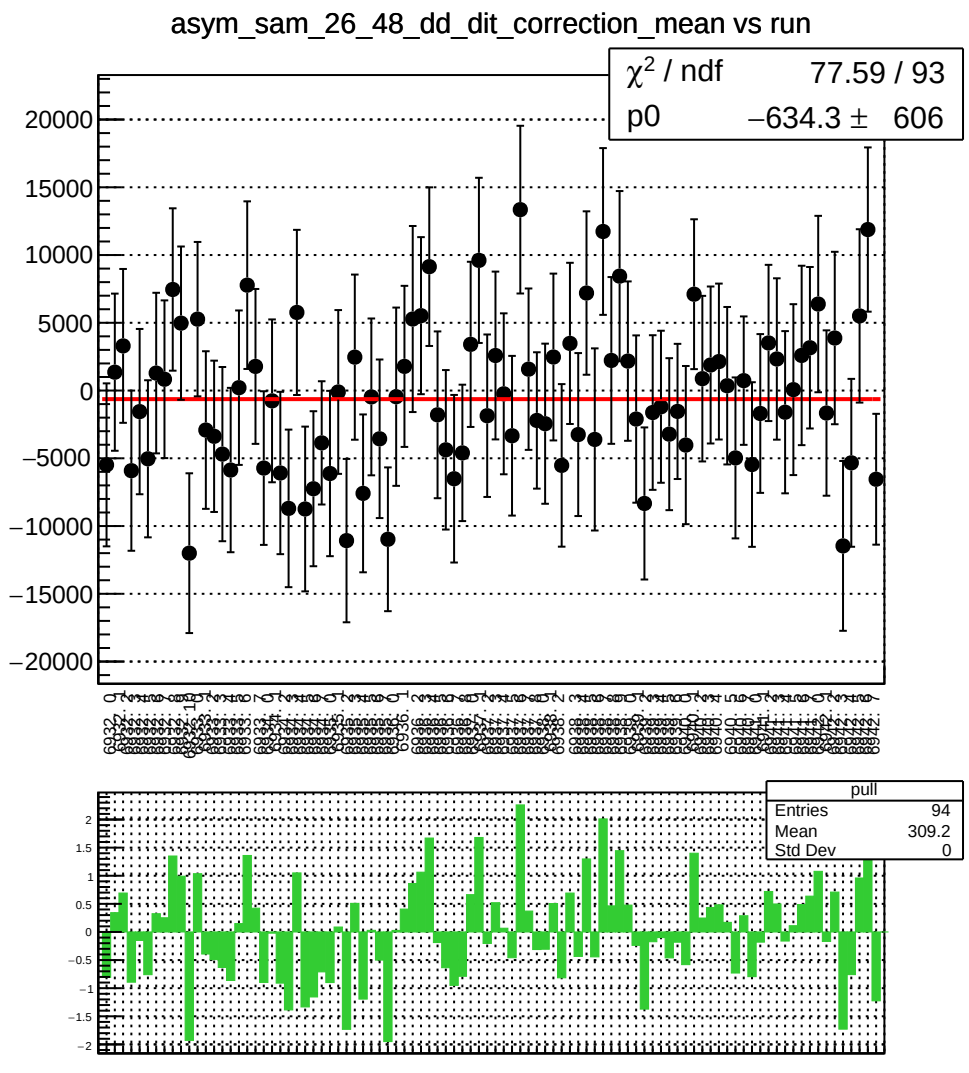

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.64 / 93
p0 −633.8 ± 581.6
pull
Entries 94
Mean 300.7
Std Dev 0

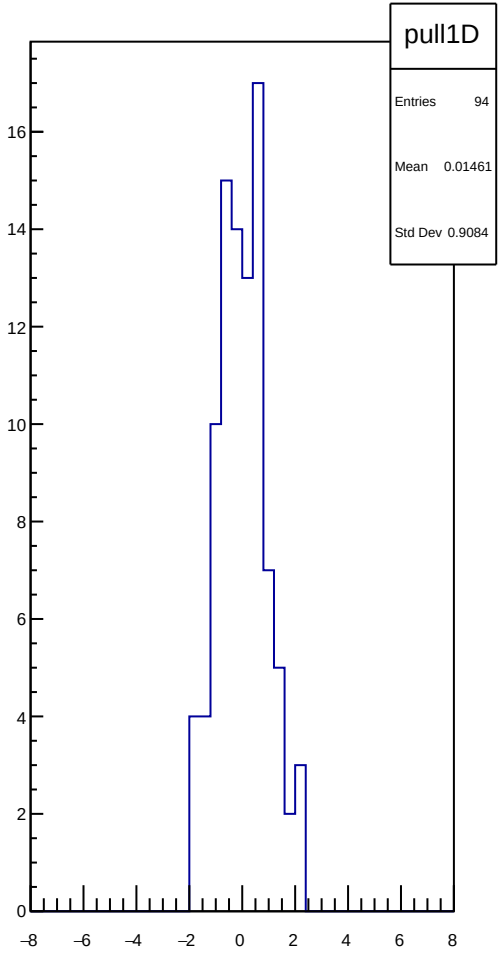

pull1D
Entries 94
Mean 0.01454
Std Dev 0.9029

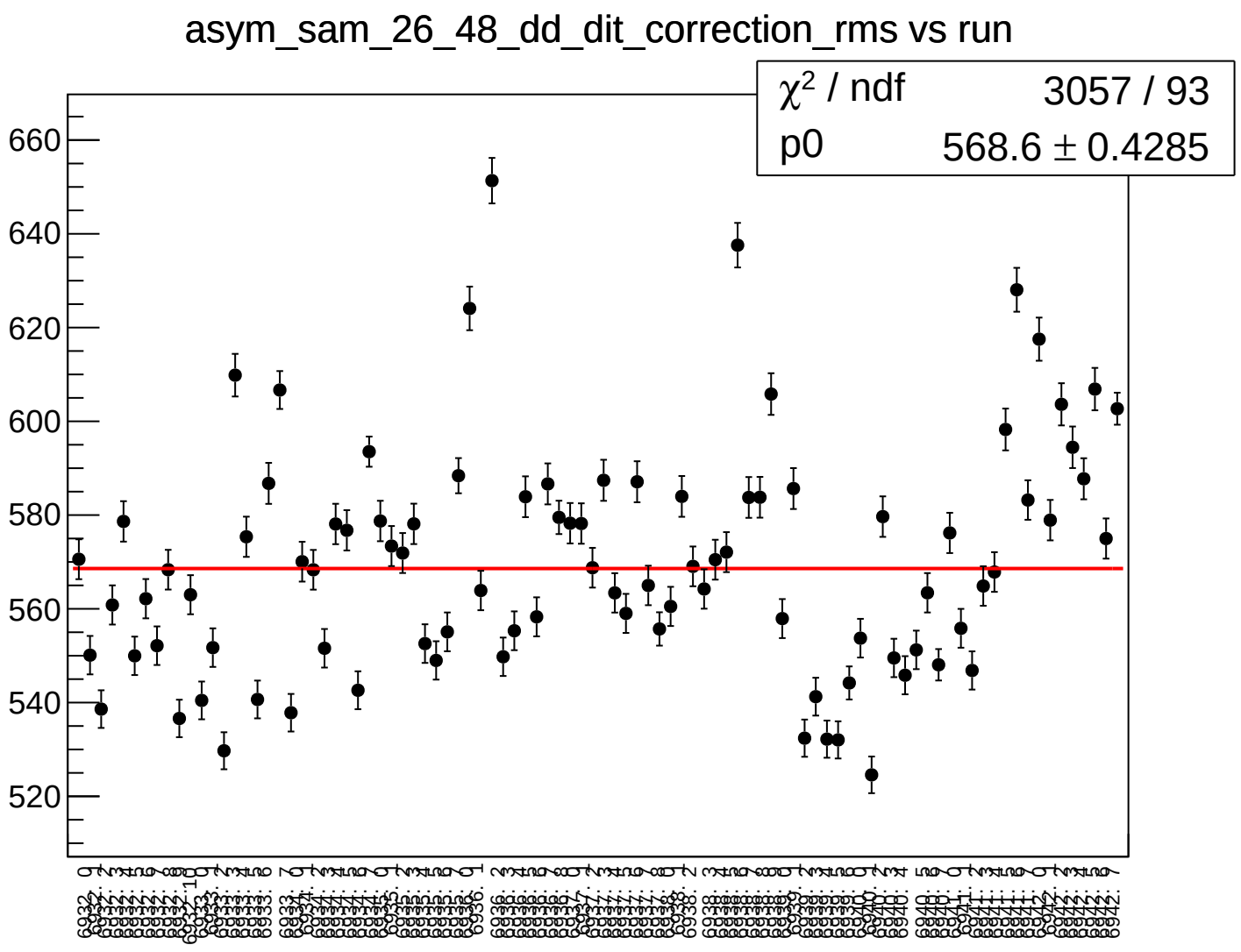

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3676 / 93
p0 545.6 ± 0.4113
620
600
580
560
540
520
500

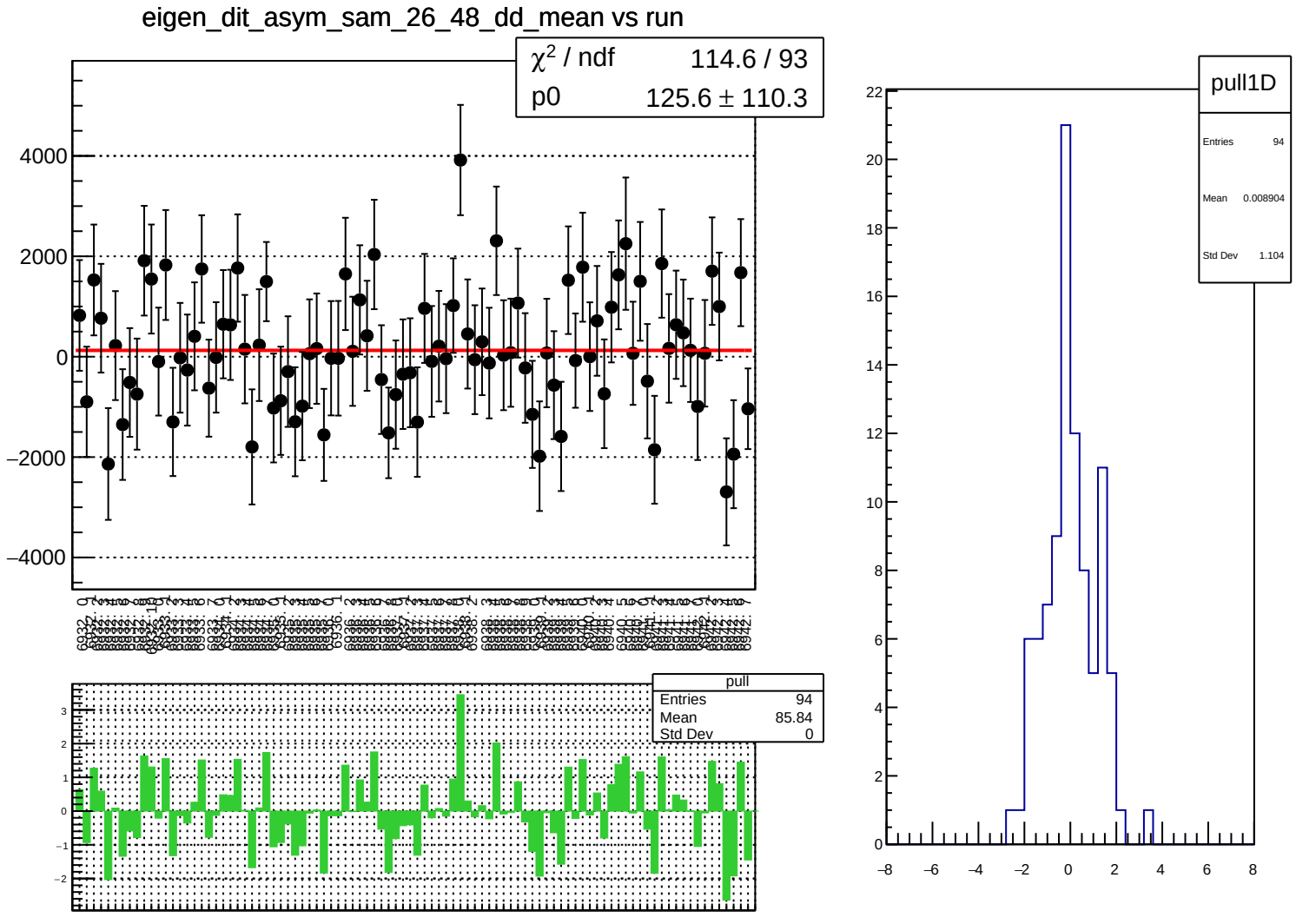

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 114.6 / 93
p0 125.6 ± 110.3
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 85.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.008904
Std Dev 1.104
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

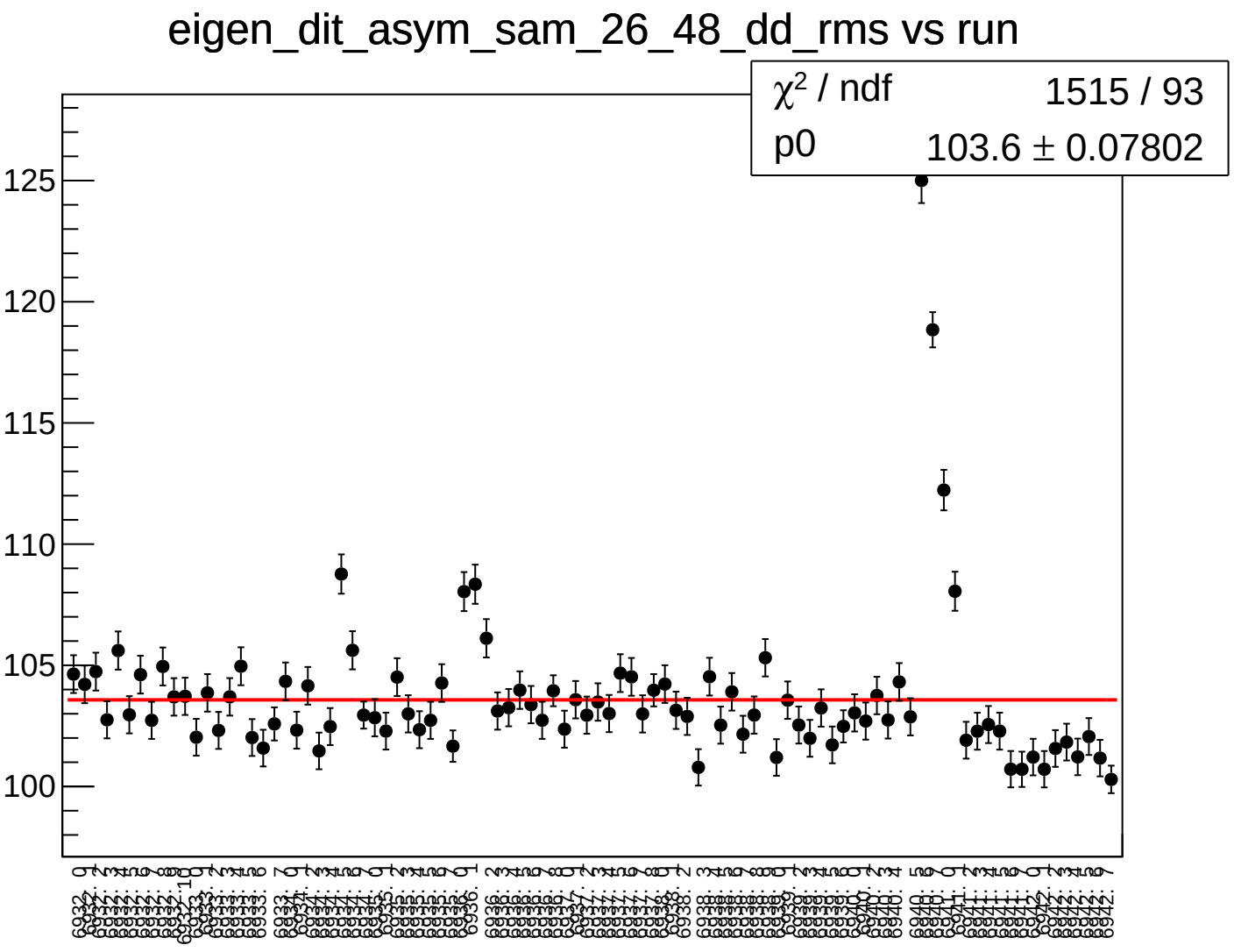

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1515 / 93
p0 103.6 ± 0.07802
125
120
115
110
105
100

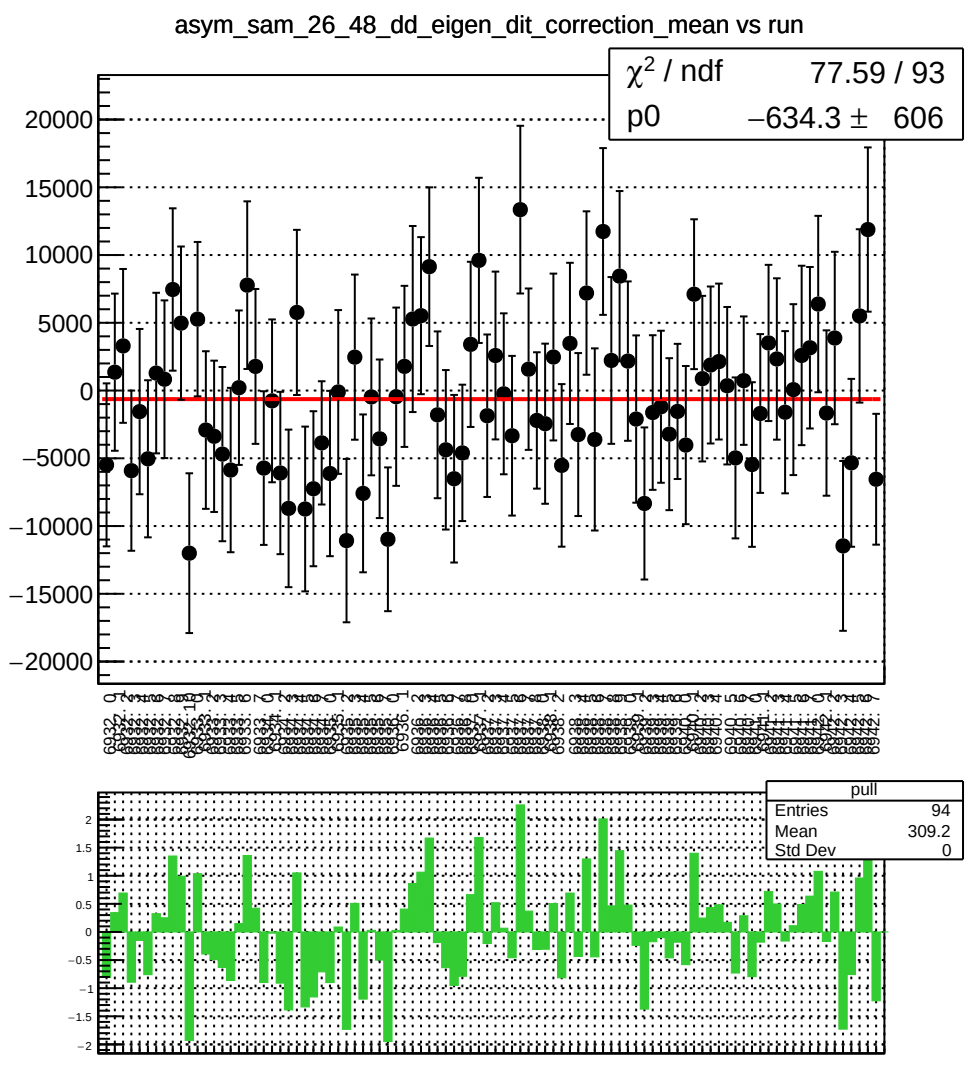

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 77.59 / 93
p0 −634.3 ± 606
pull
Entries 94
Mean 309.2
Std Dev 0

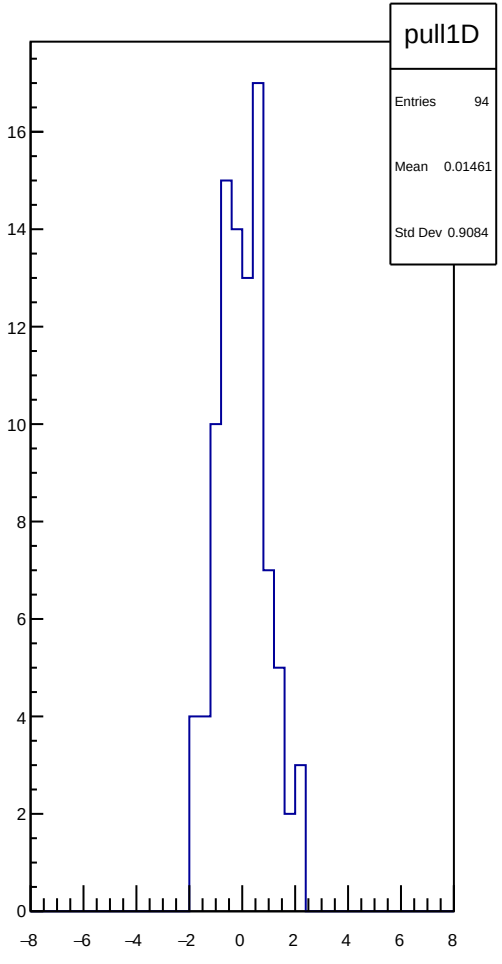

pull1D
Entries 94
Mean 0.01461
Std Dev 0.9084

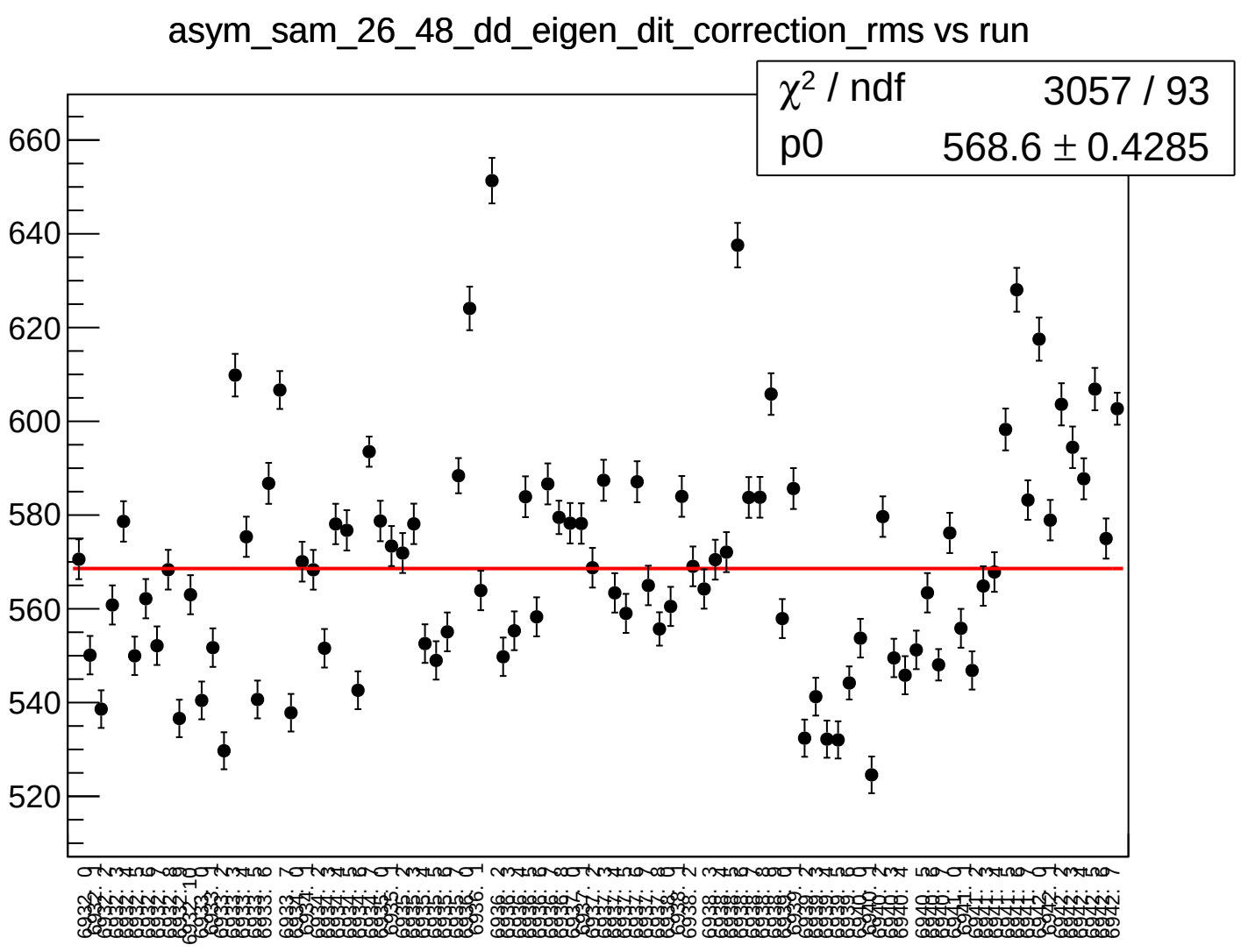

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3057 / 93
p0 568.6 ± 0.4285
660
640
620
600
580
560
540
520

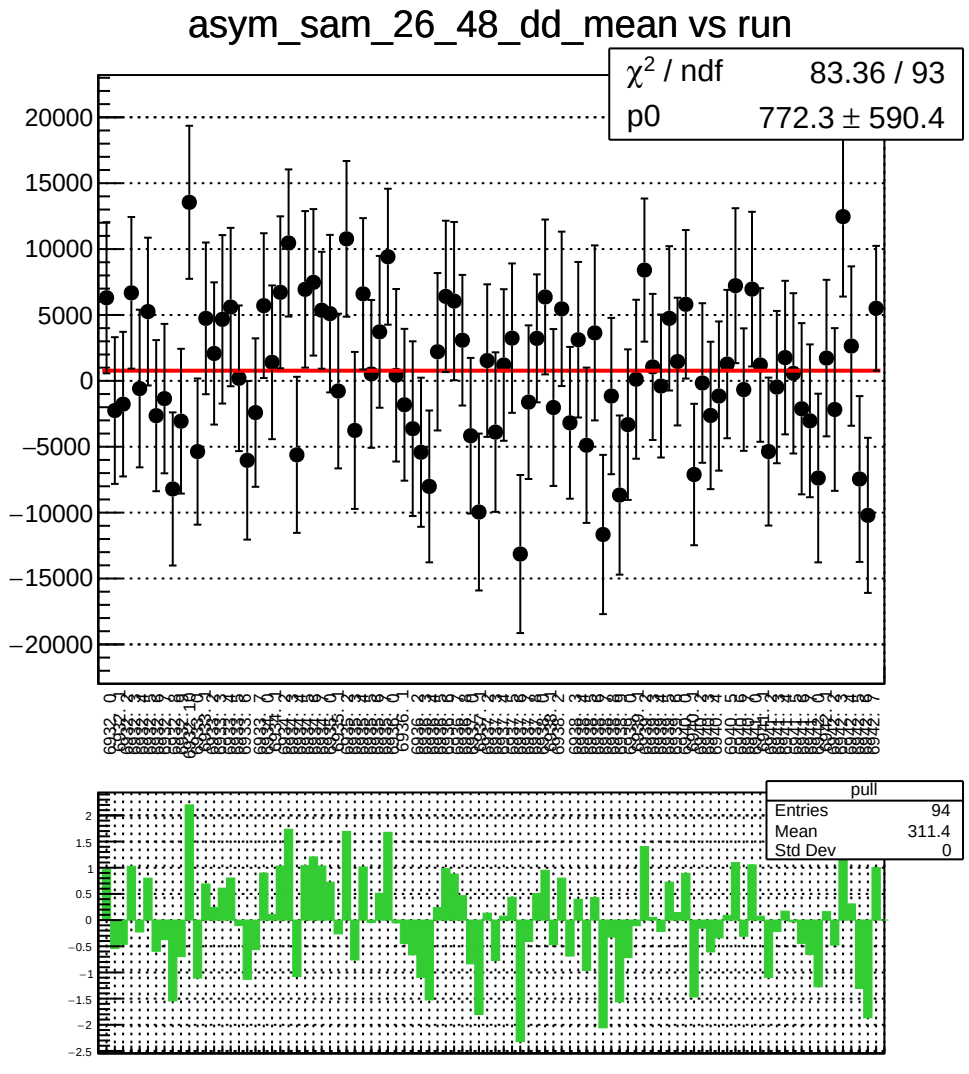

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 114.6 / 93
p0 125.6 ± 110.3
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 85.84
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.008904
Std Dev 1.104
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

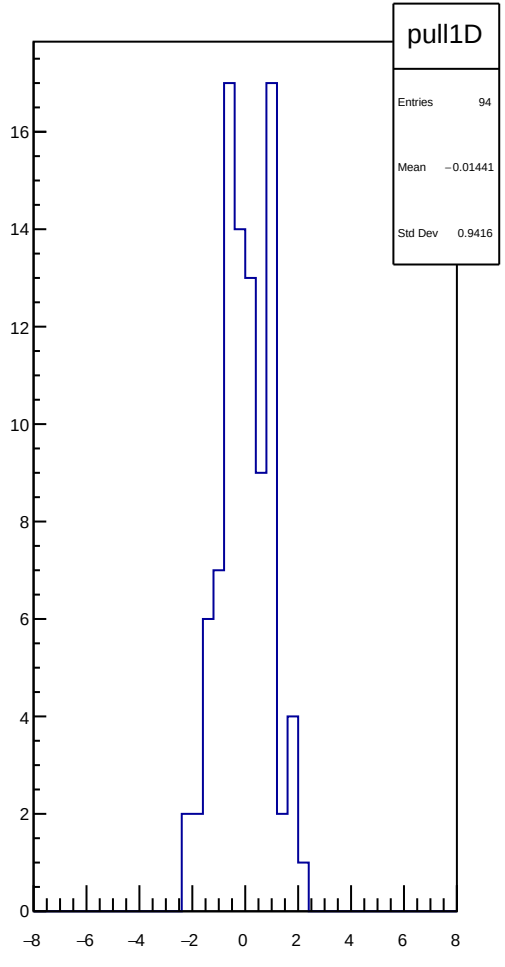

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1515 / 93
p0 103.6 ± 0.07802
125
120
115
110
105
100

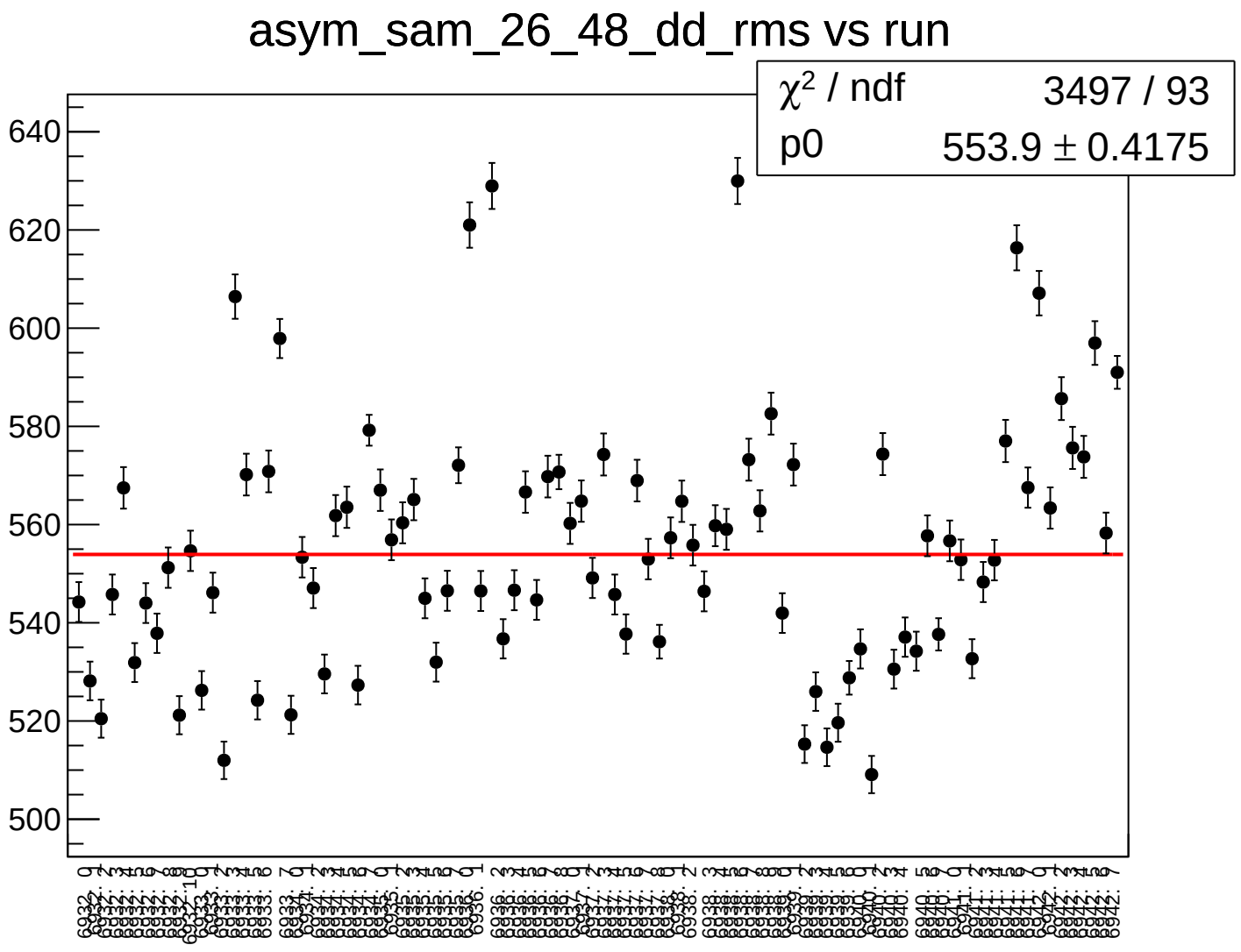

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.59 / 93
p0 −634.3 ± 606
pull
Entries 94
Mean 309.2
Std Dev 0

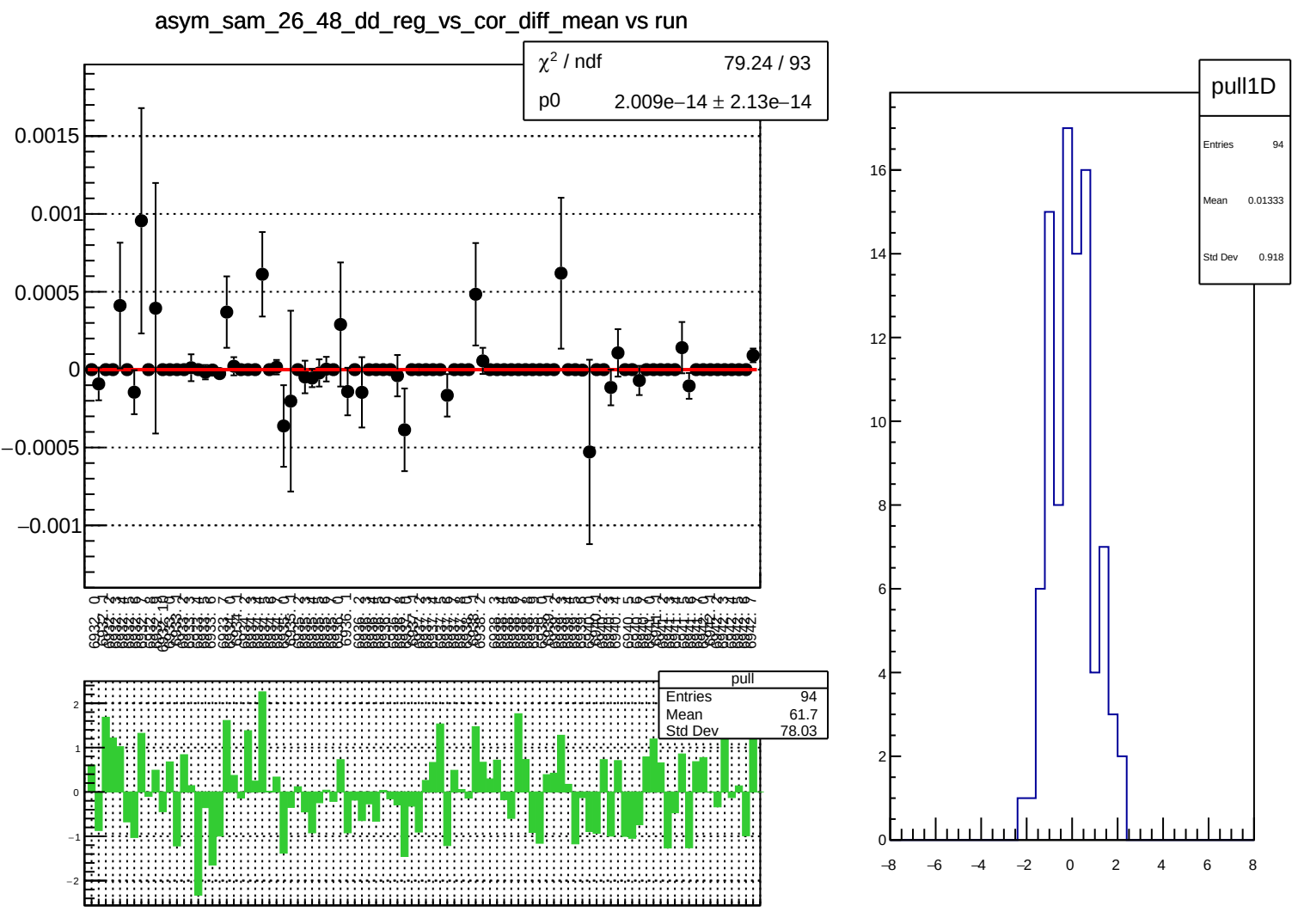

pull1D
Entries 94
Mean 0.01461
Std Dev 0.9084

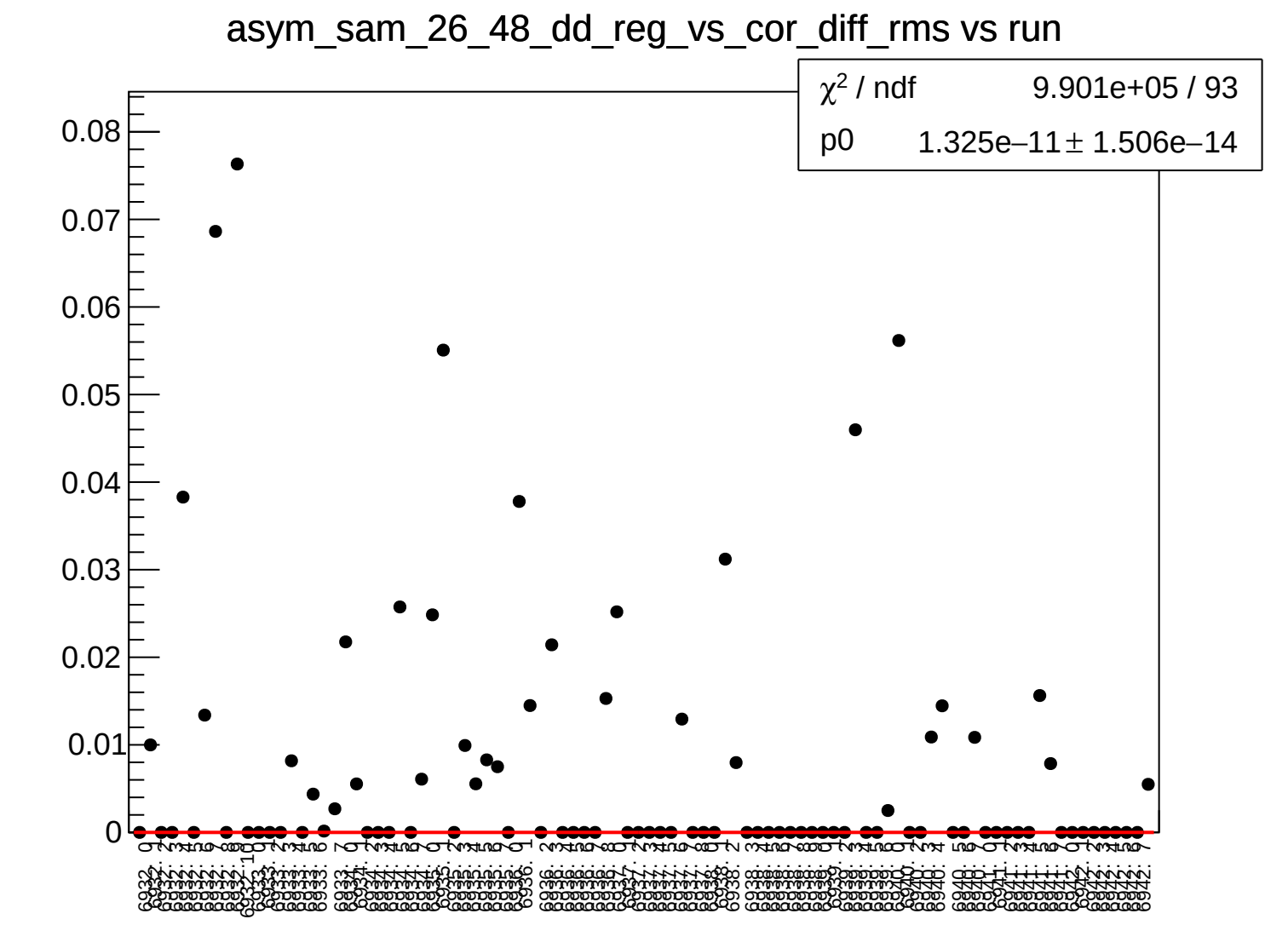

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3057 / 93
p0 568.6 ± 0.4285
660
640
620
600
580
560
540
520

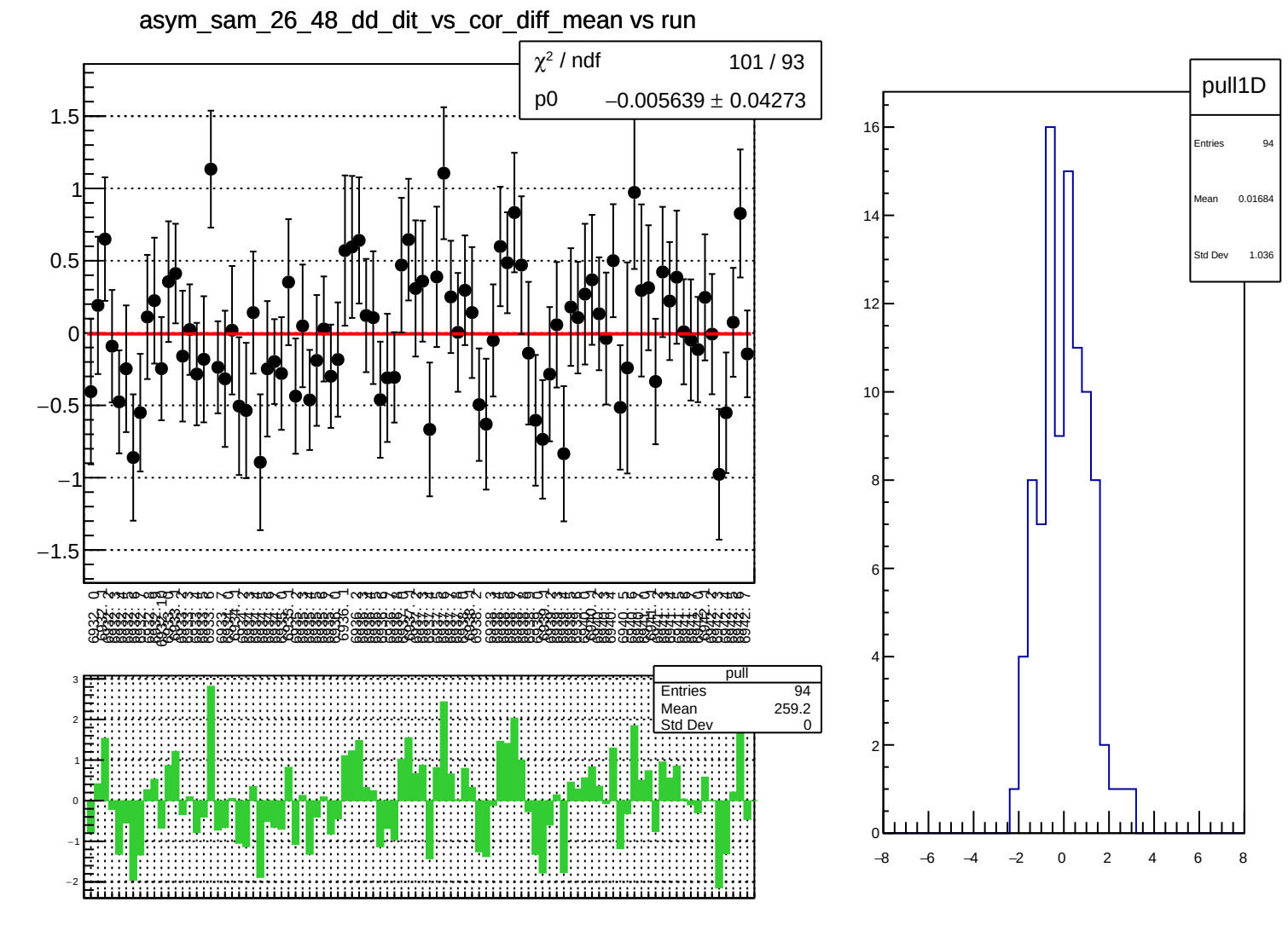

asym_sam_26_48_dd_mean vs run
χ² / ndf 83.36 / 93
p0 772.3 ± 590.4
pull
Entries 94
Mean 311.4
Std Dev 0

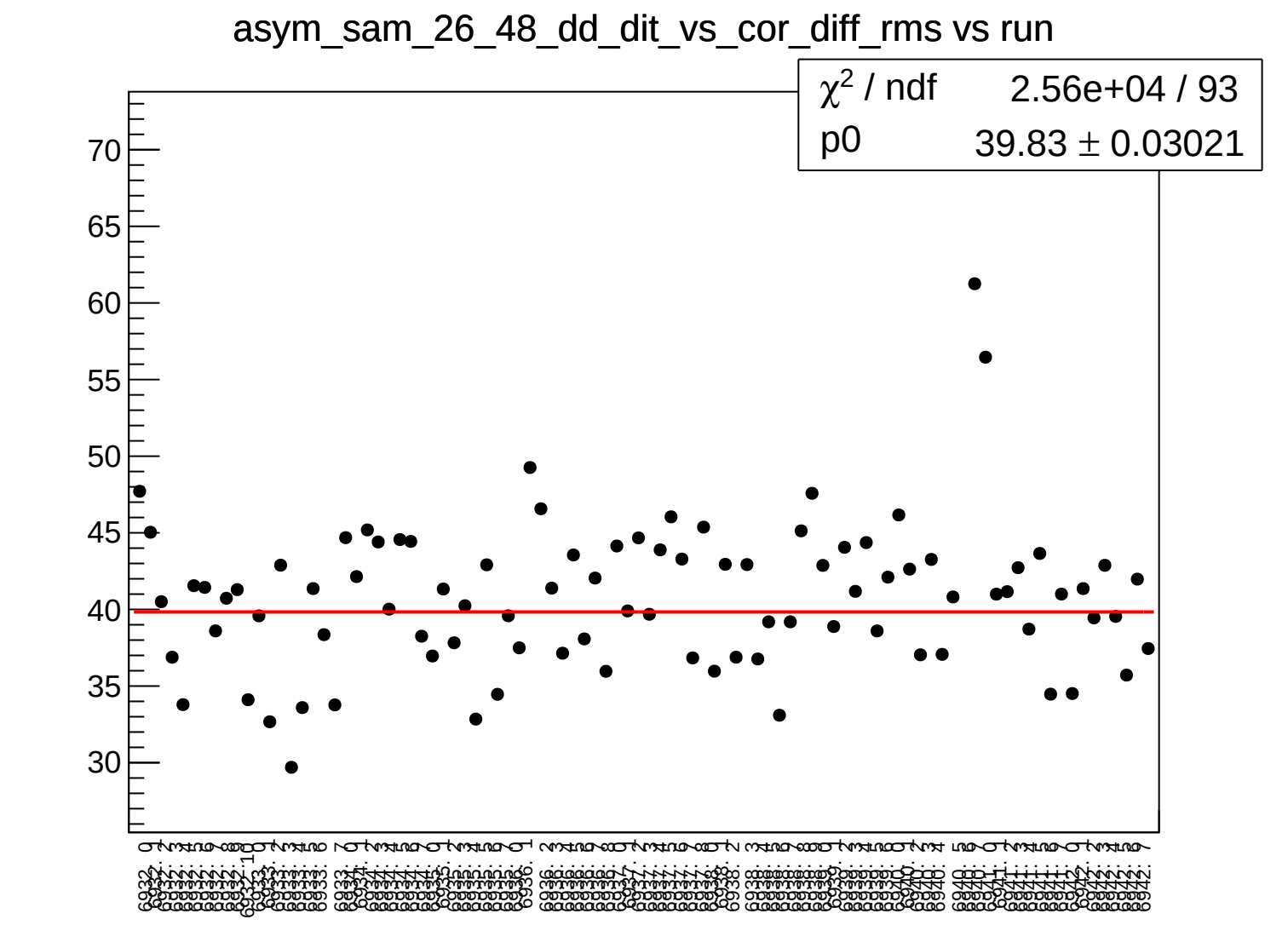

pull1D
Entries 94
Mean −0.01441
Std Dev 0.9416

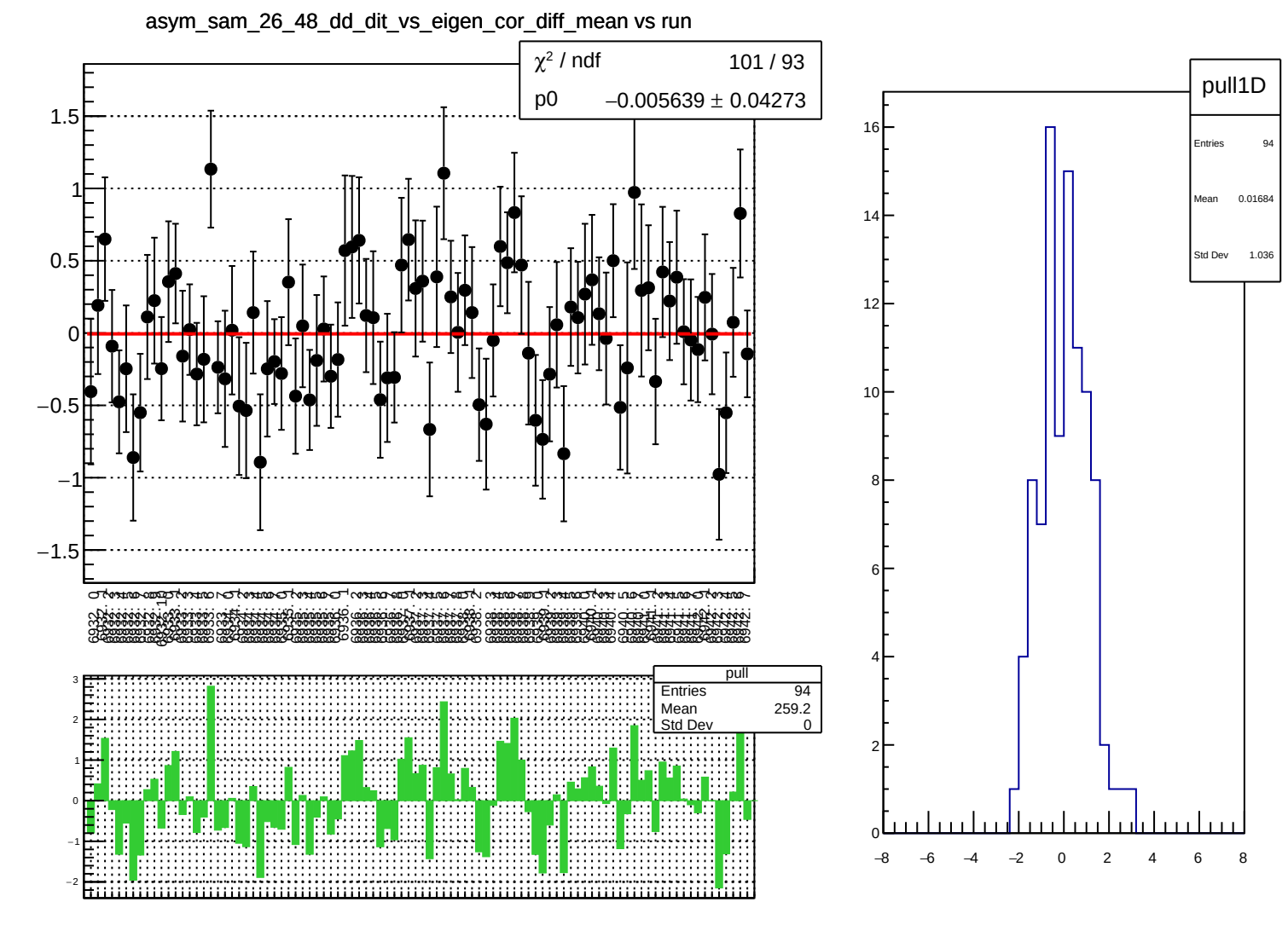

asym_sam_26_48_dd_rms vs run
χ² / ndf 3497 / 93
p0 553.9 ± 0.4175
640
620
600
580
560
540
520
500

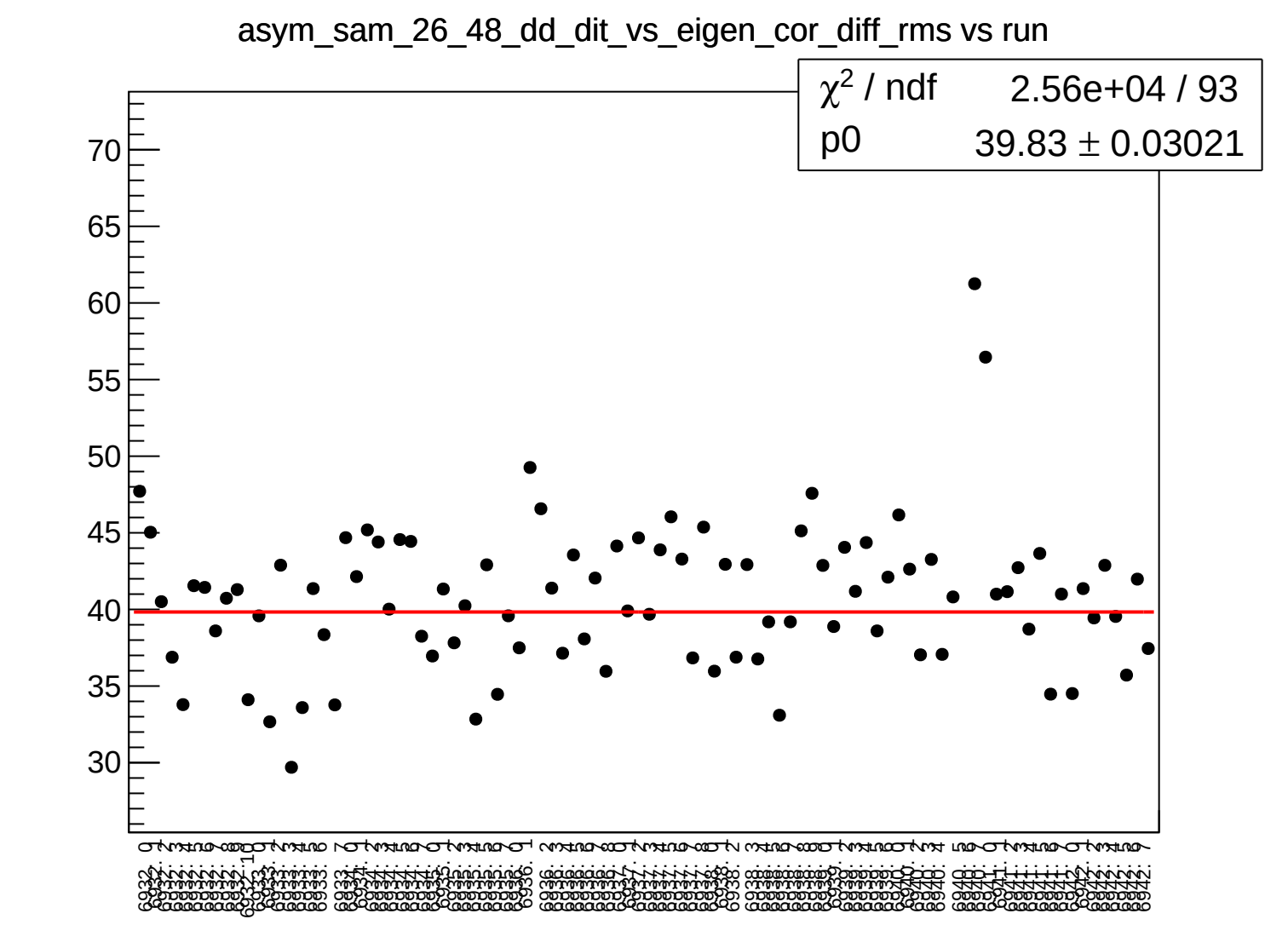

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.24 / 93
p0 2.009e−14 ± 2.13e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 61.7
Std Dev 78.03
pull1D
Entries 94
Mean 0.01333
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

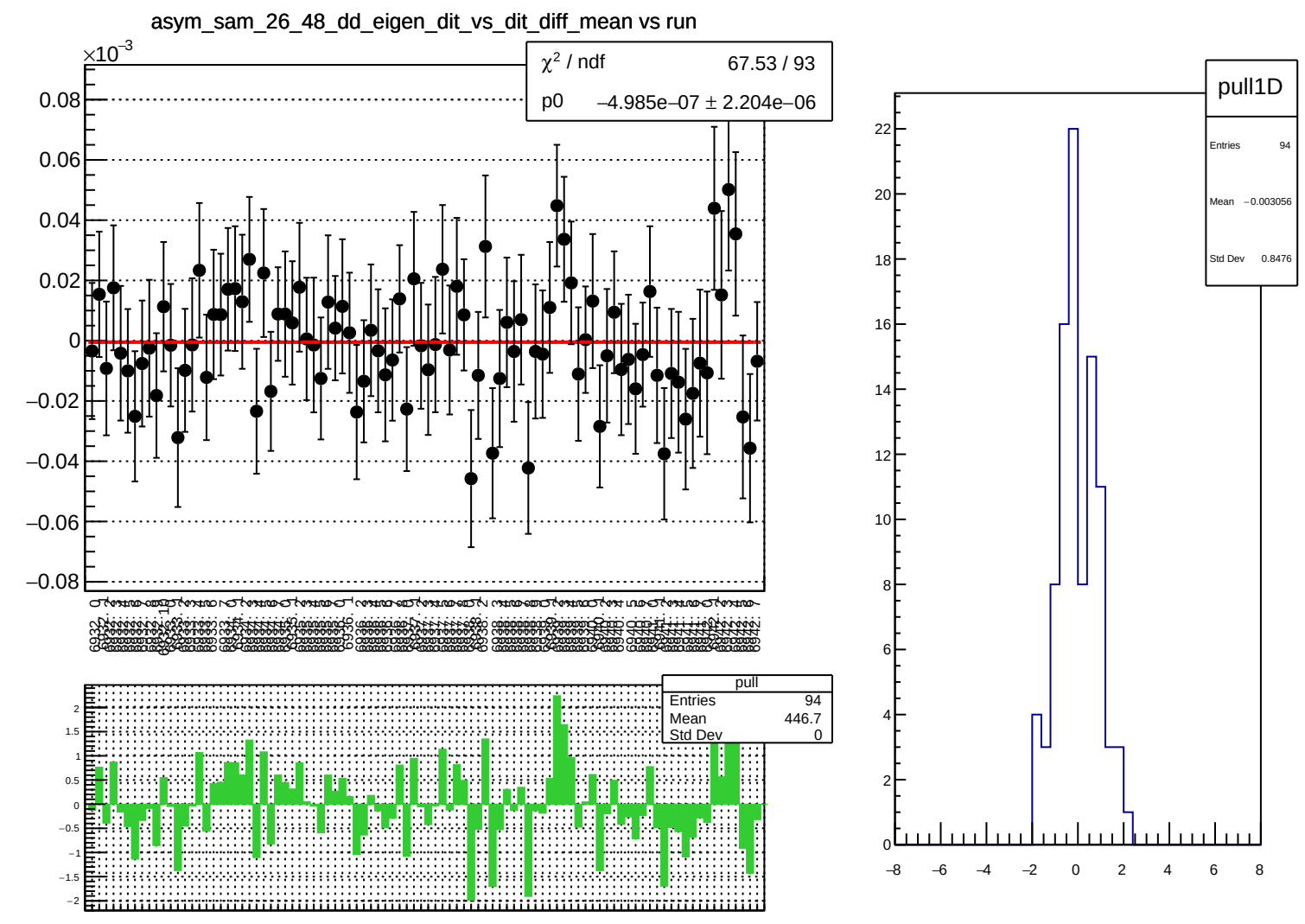

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.901e+05 / 93
p0 1.325e−11 ± 1.506e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

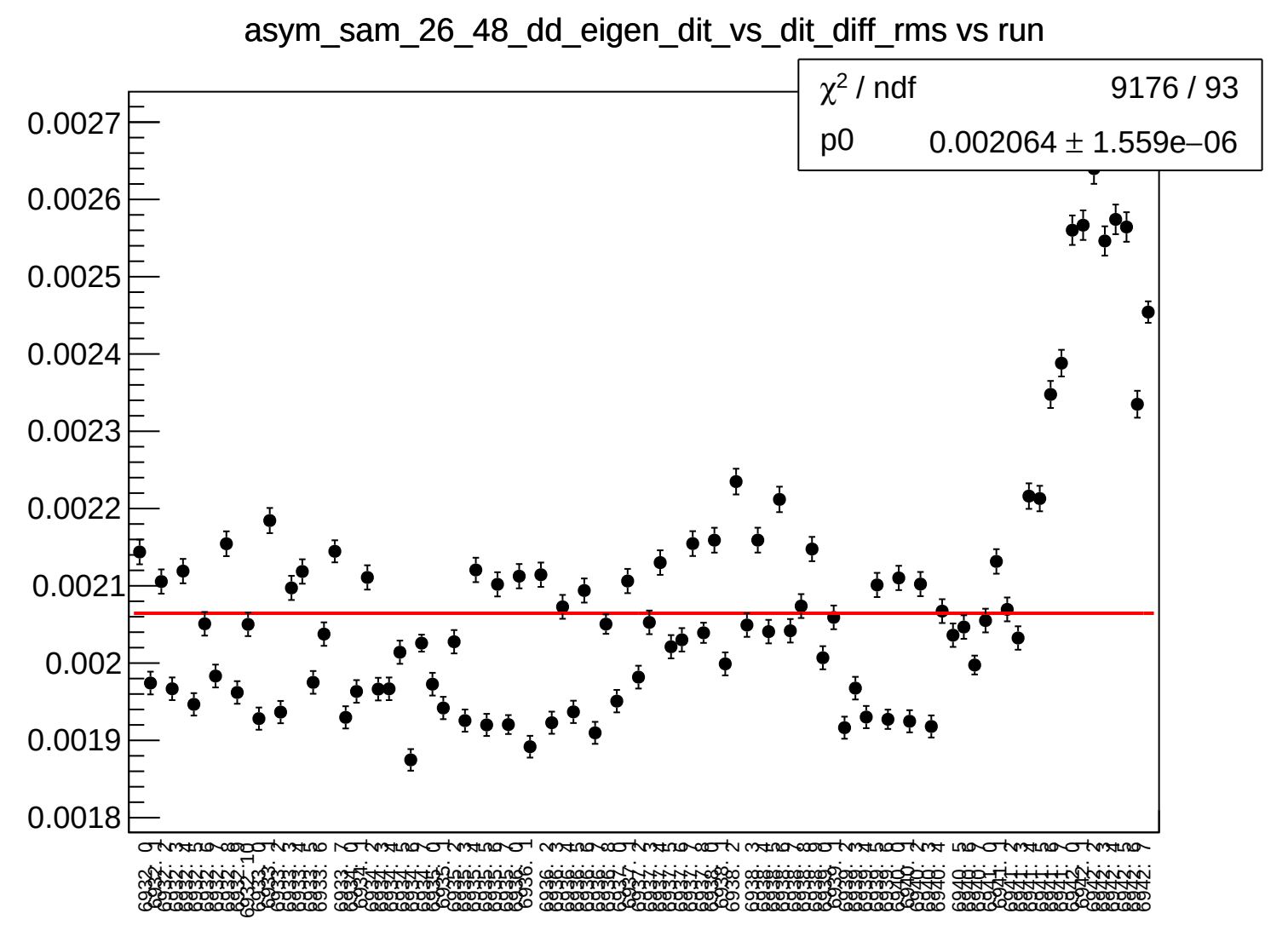

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 93
p0 −0.005639 ± 0.04273
pull
Entries 94
Mean 259.2
Std Dev 0
pull1D
Entries 94
Mean 0.01684
Std Dev 1.036

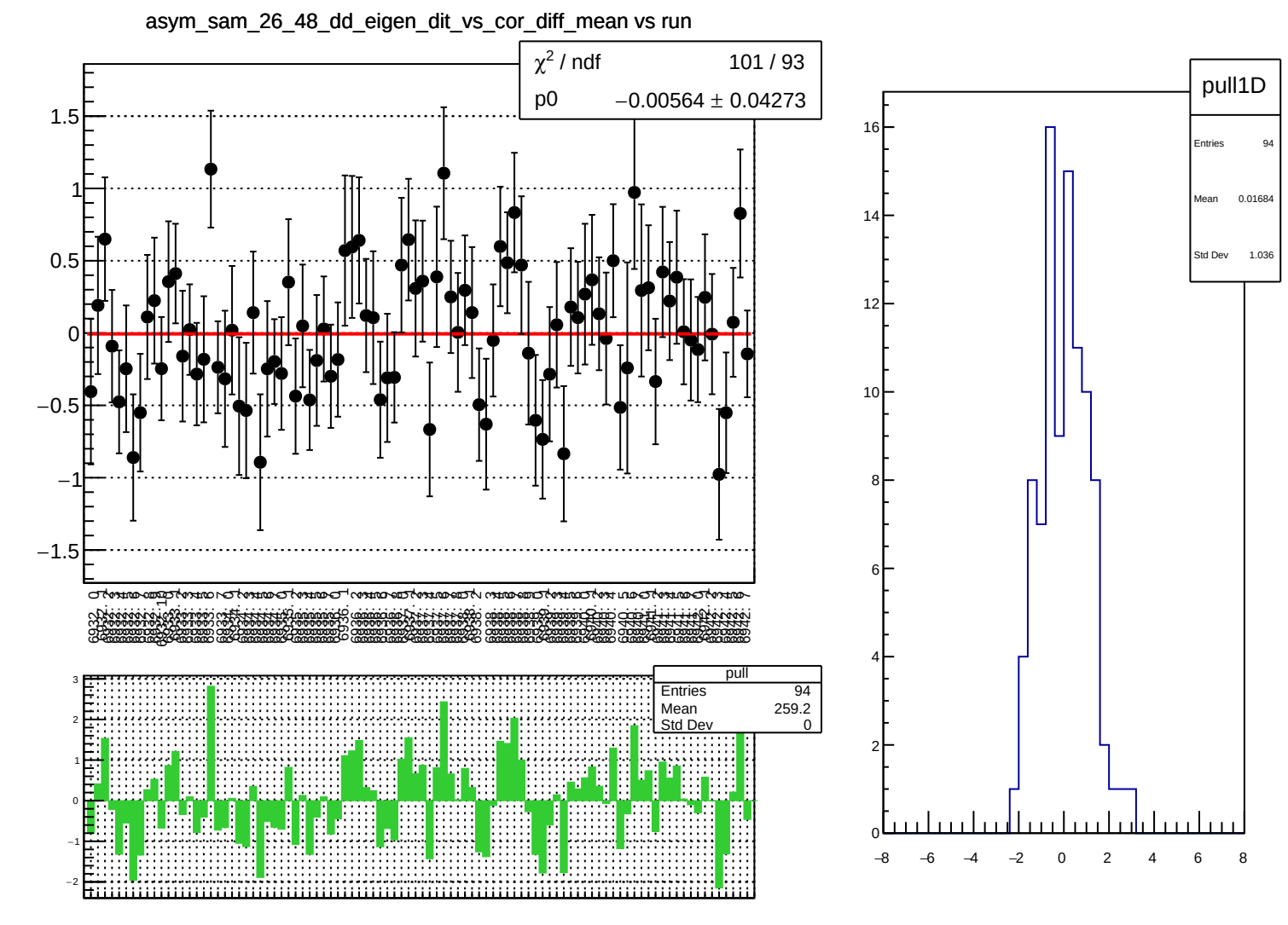

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.56e+04 / 93
p0 39.83 ± 0.03021
70
65
60
55
50
45
40
35
30

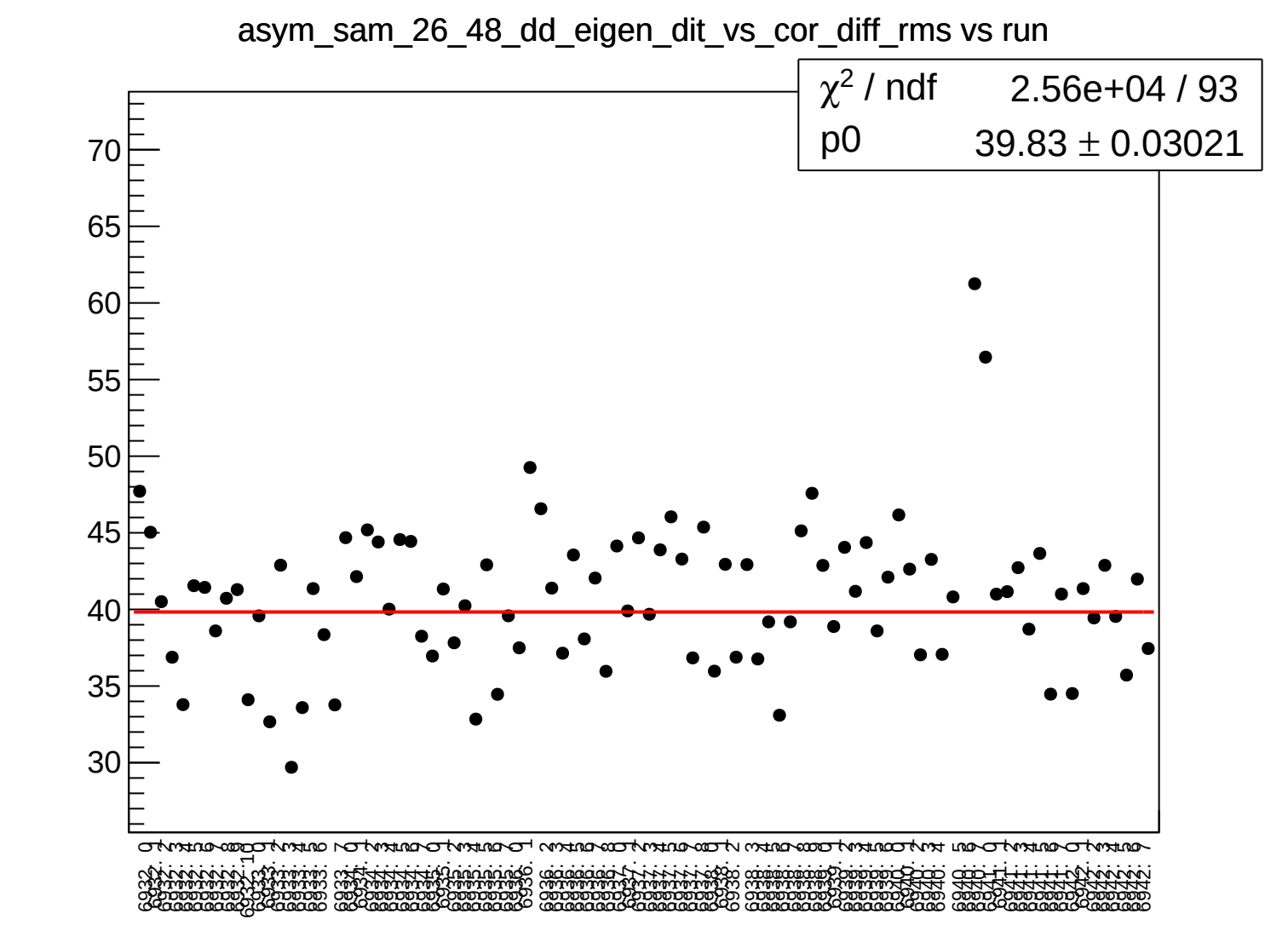

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 93
p0 −0.005639 ± 0.04273
pull
Entries 94
Mean 259.2
Std Dev 0
pull1D
Entries 94
Mean 0.01684
Std Dev 1.036

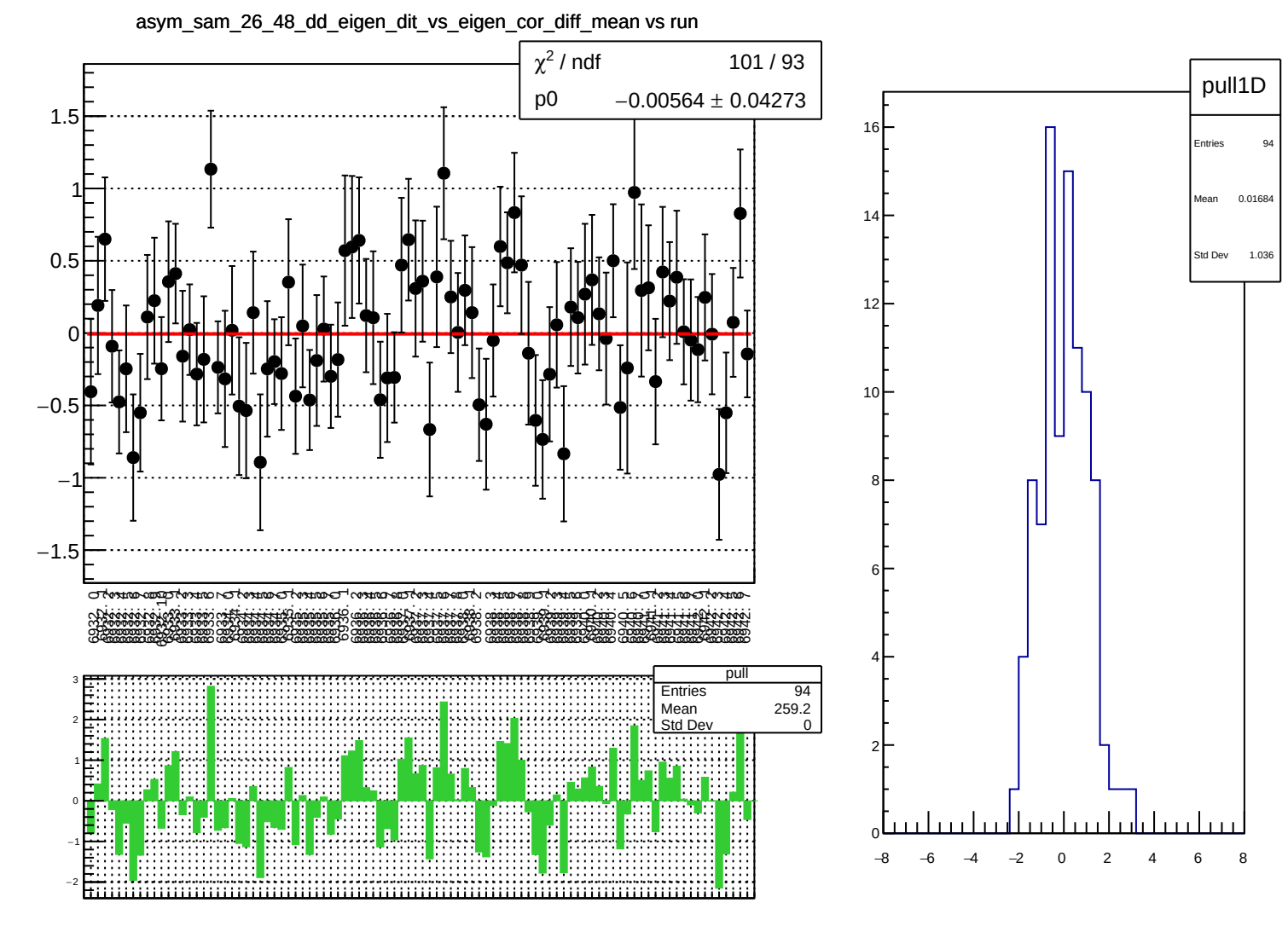

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.56e+04 / 93
p0 39.83 ± 0.03021
70
65
60
55
50
45
40
35
30

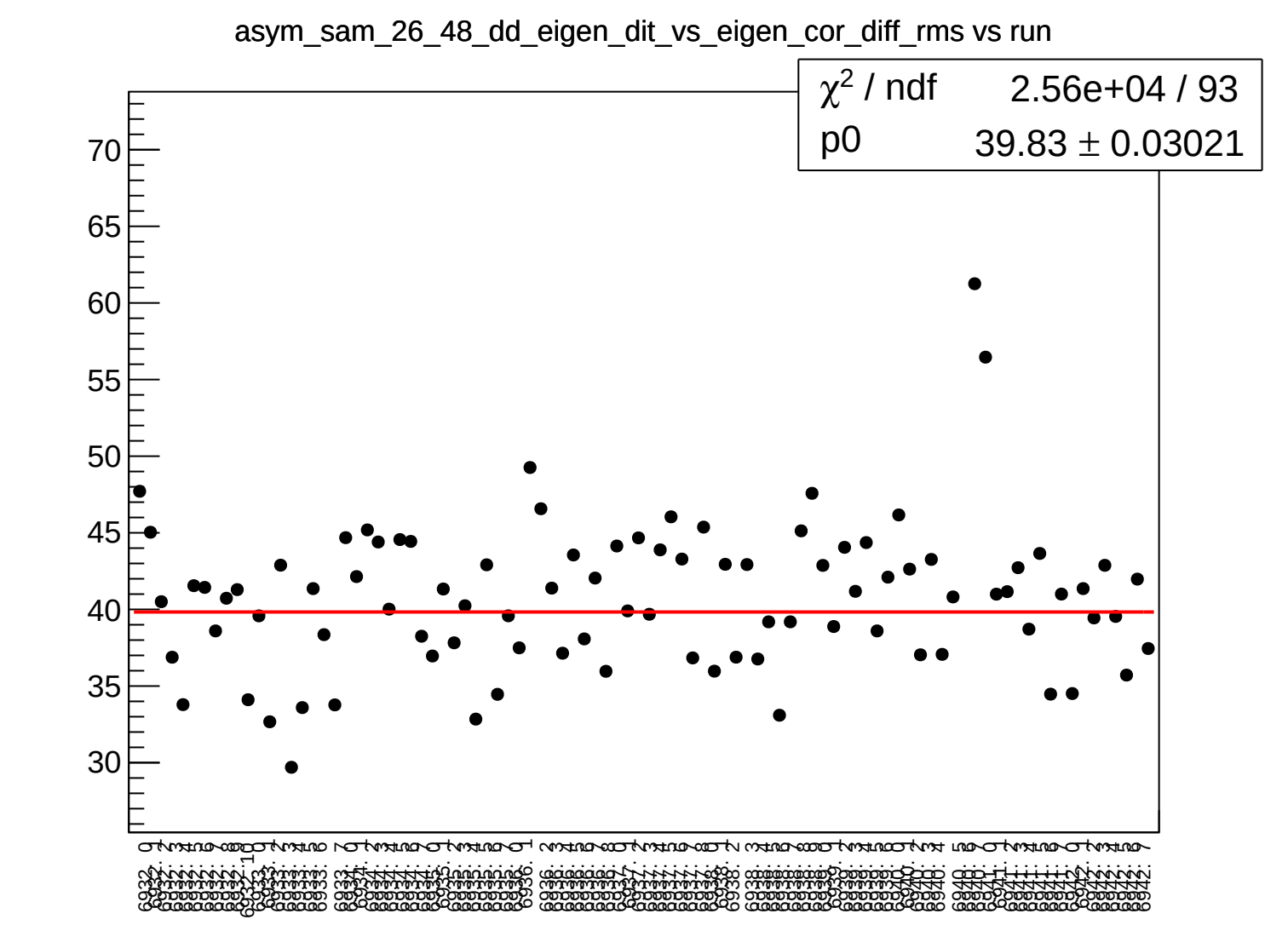

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.53 / 93
p0 −4.985e−07 ± 2.204e−06
pull
Entries 94
Mean 446.7
Std Dev 0
pull1D
Entries 94
Mean −0.003056
Std Dev 0.8476

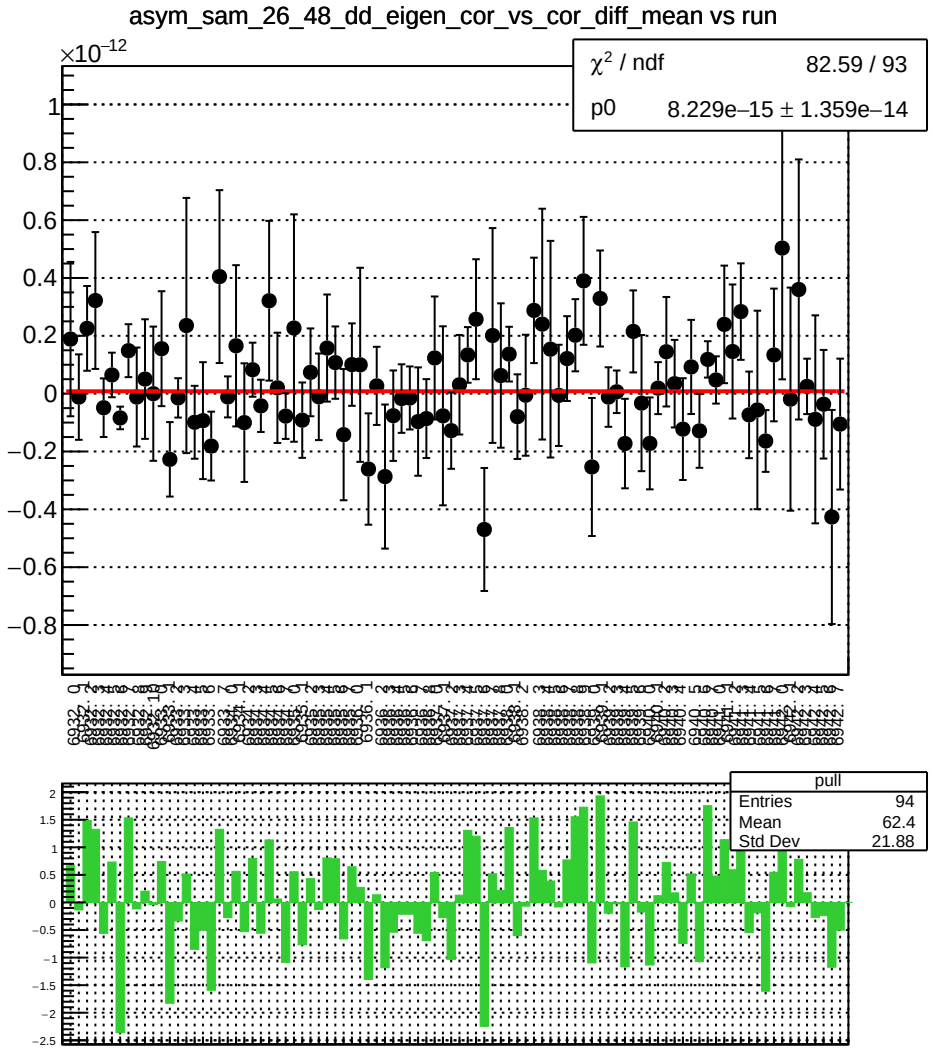

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9176 / 93
p0 0.002064 ± 1.559e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

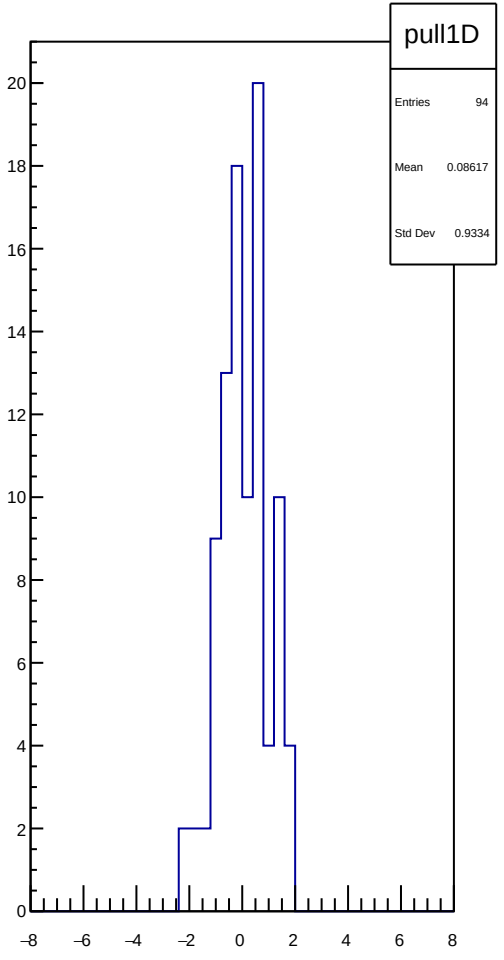

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 93
p0 −0.00564 ± 0.04273
pull
Entries 94
Mean 259.2
Std Dev 0
pull1D
Entries 94
Mean 0.01684
Std Dev 1.036

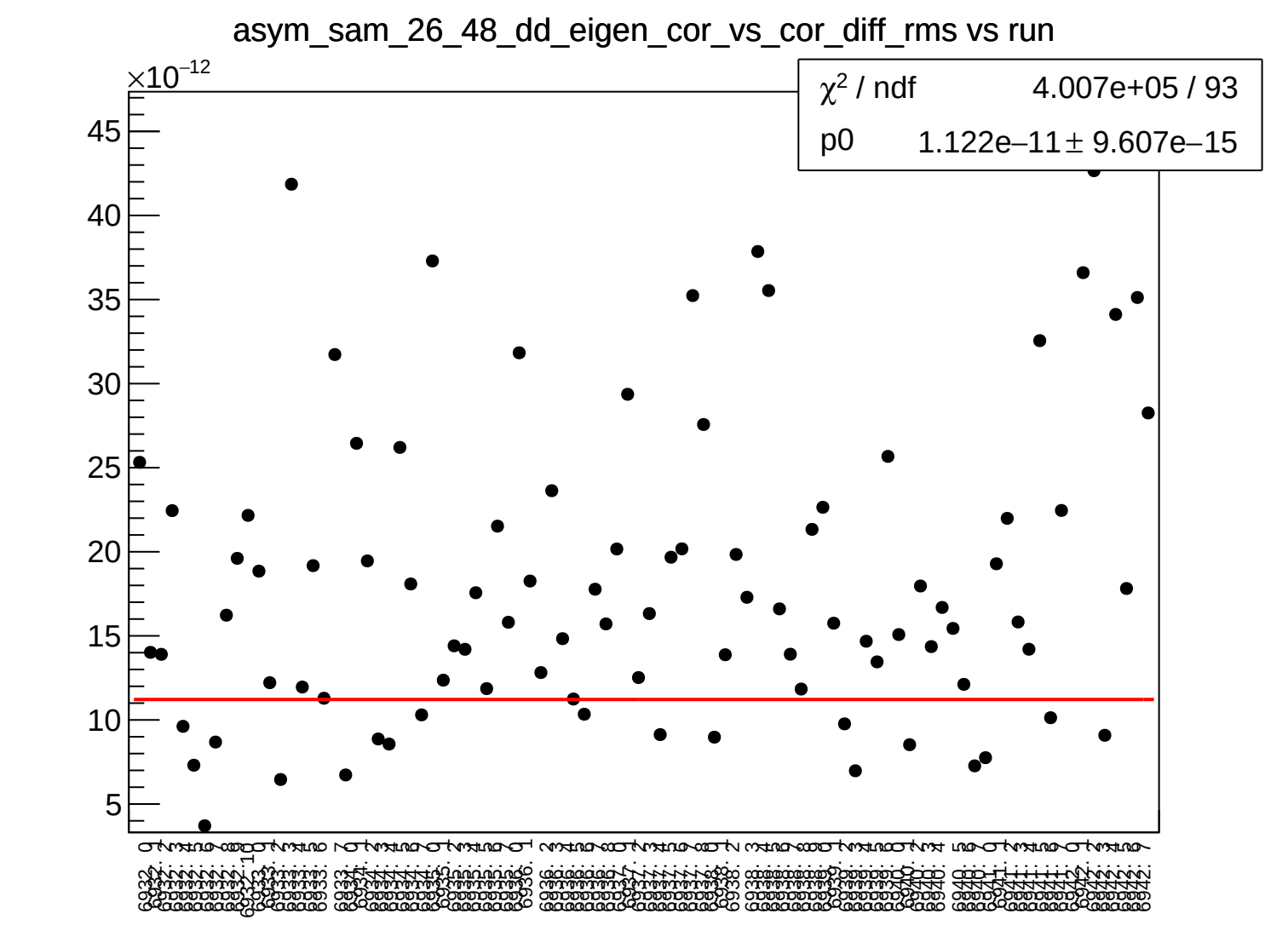

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.56e+04 / 93
p0 39.83 ± 0.03021
70
65
60
55
50
45
40
35
30

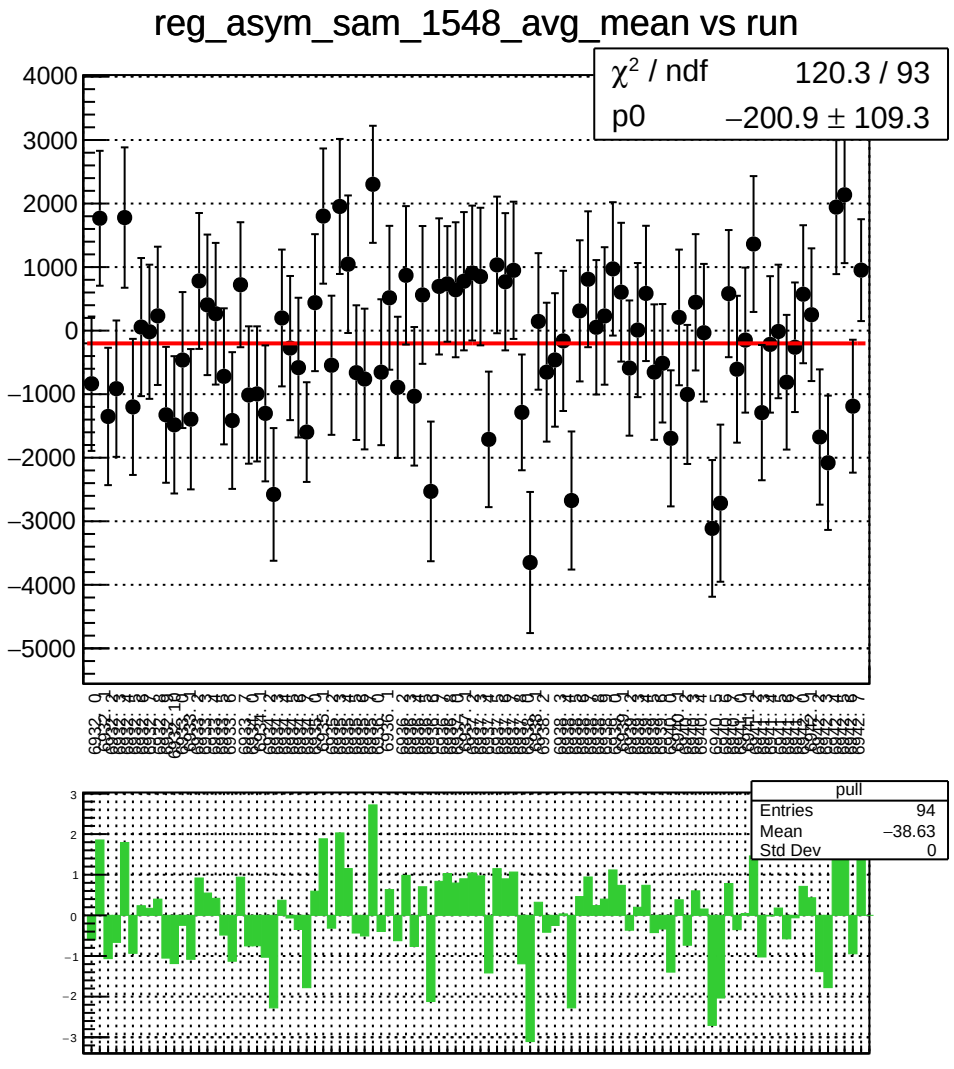

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 93
p0 −0.00564 ± 0.04273
pull
Entries 94
Mean 259.2
Std Dev 0
pull1D
Entries 94
Mean 0.01684
Std Dev 1.036

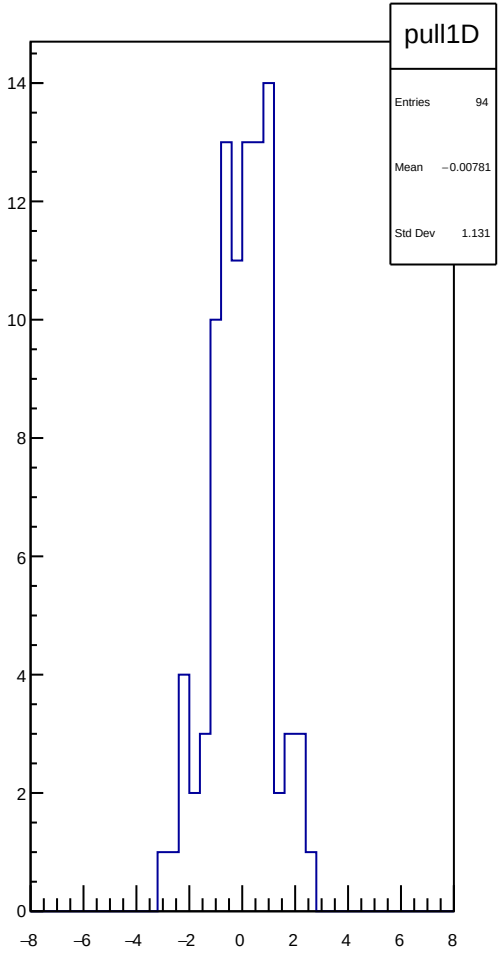

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.56e+04 / 93
p0 39.83 ± 0.03021
70
65
60
55
50
45
40
35
30

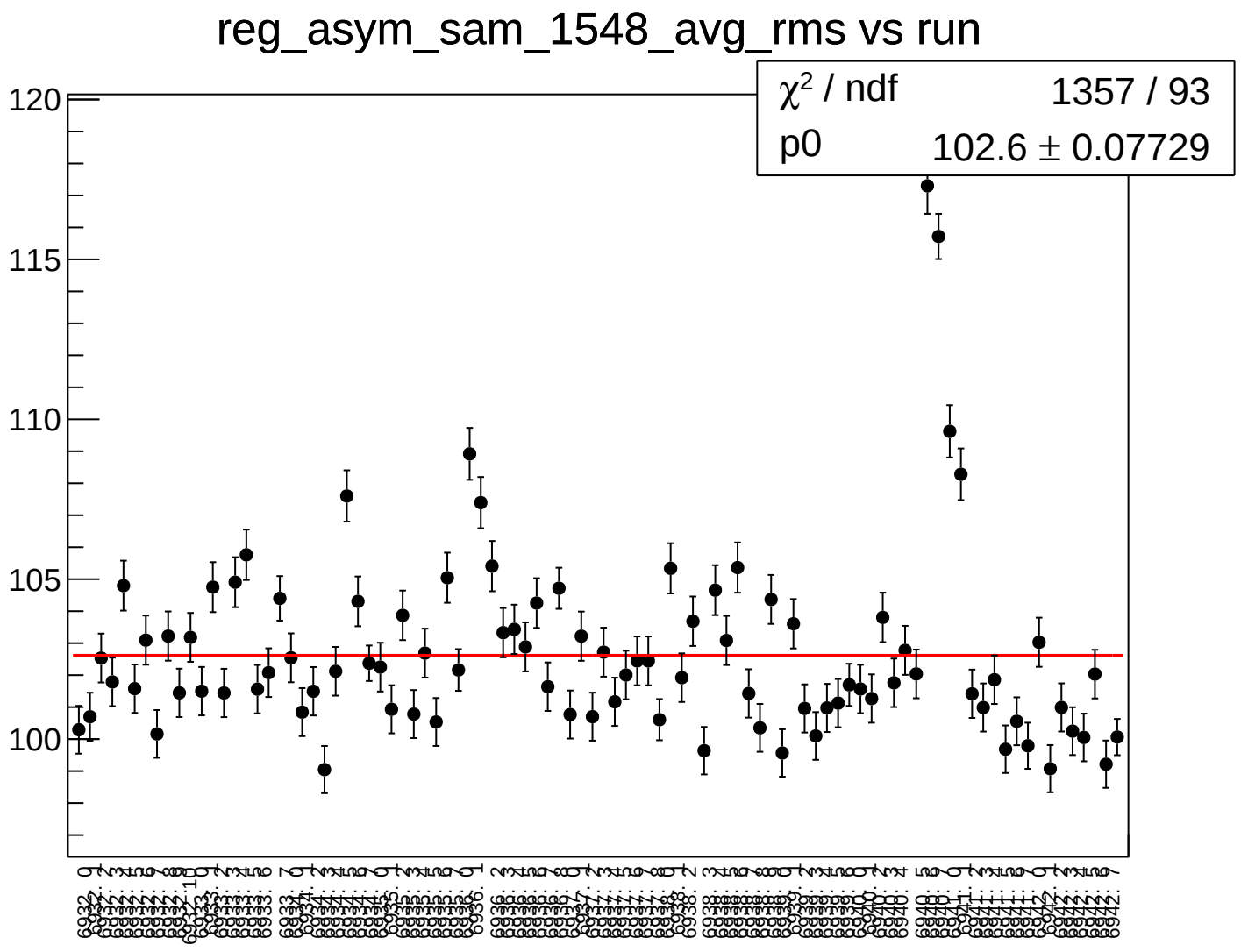

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.59 / 93
p0 8.229e−15 ± 1.359e−14
pull
Entries 94
Mean 62.4
Std Dev 21.88

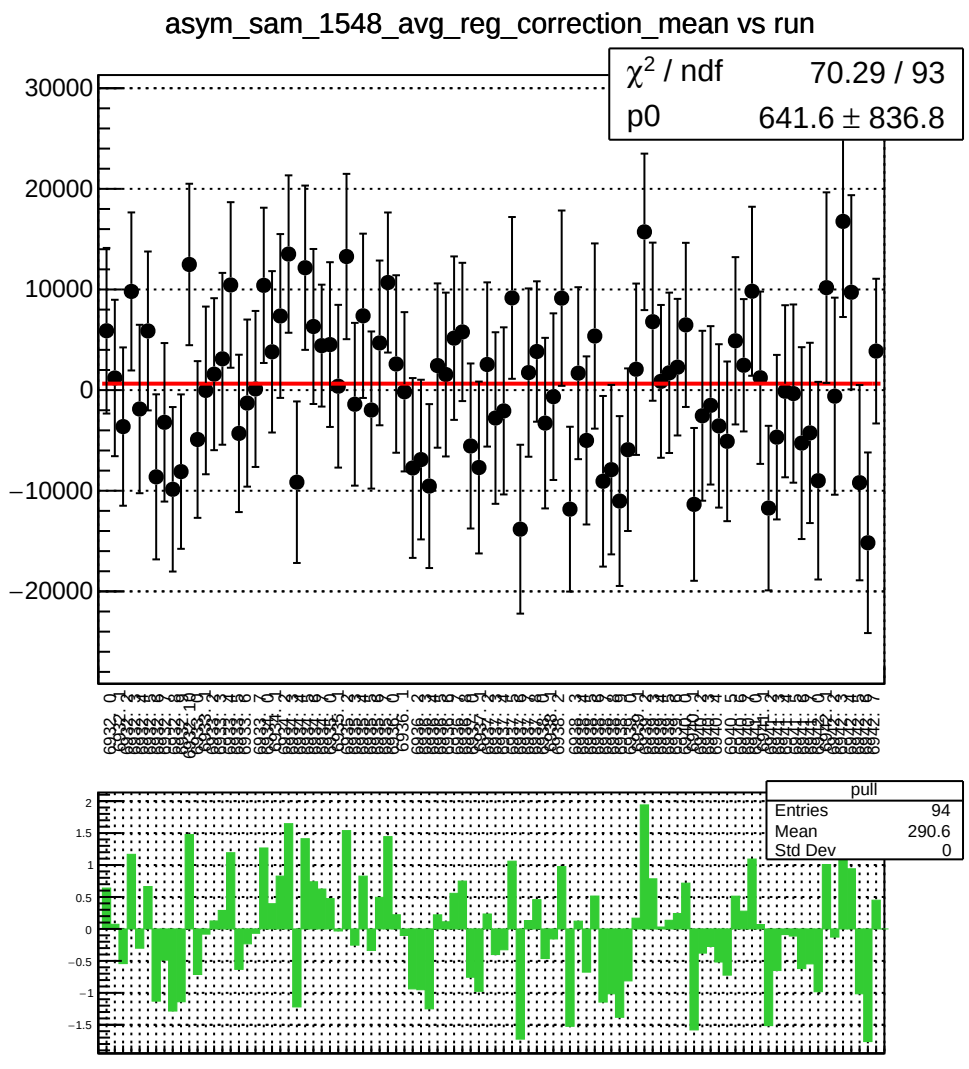

pull1D
Entries 94
Mean 0.08617
Std Dev 0.9334

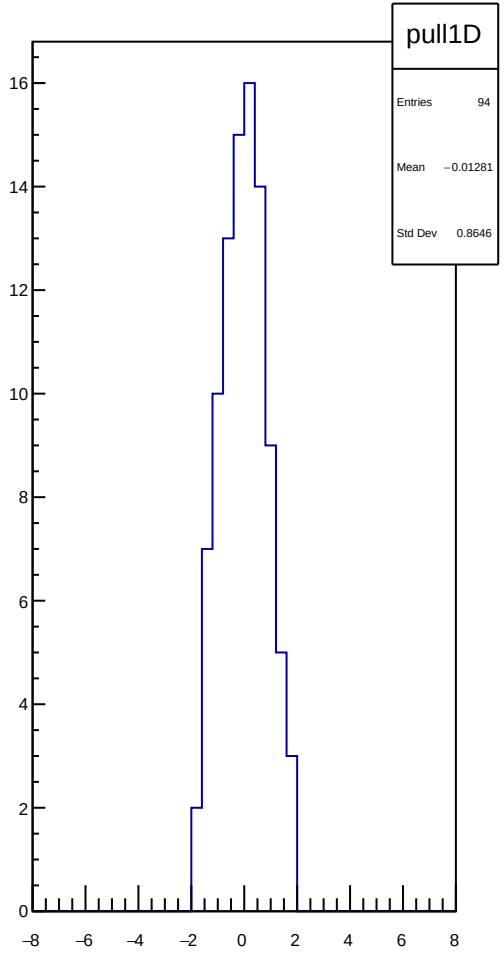

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.007e+05 / 93
p0 1.122e−11 ± 9.607e−15
45
40
35
30
25
20
15
10
5

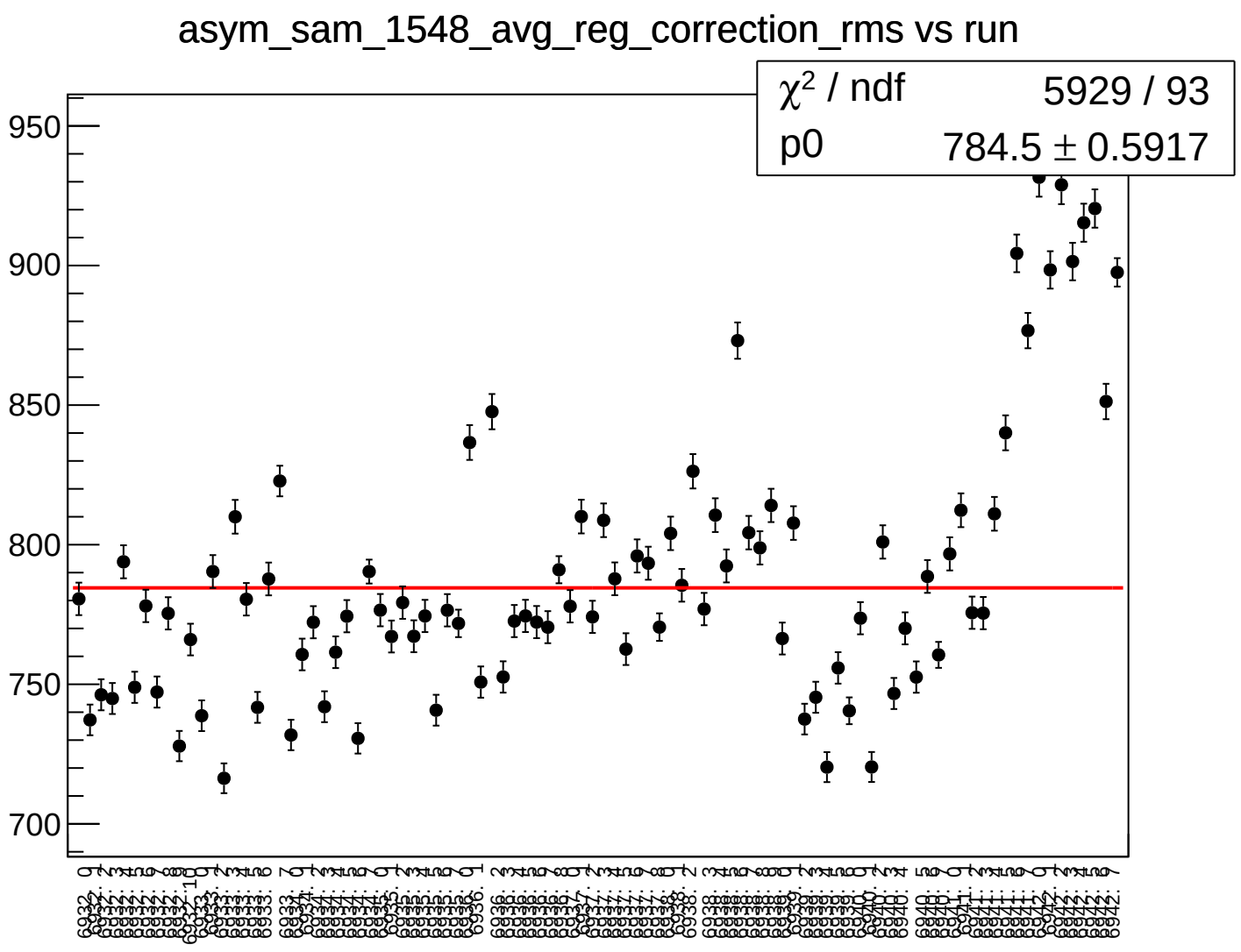

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 120.3 / 93
p0 −200.9 ± 109.3
pull
Entries 94
Mean −38.63
Std Dev 0

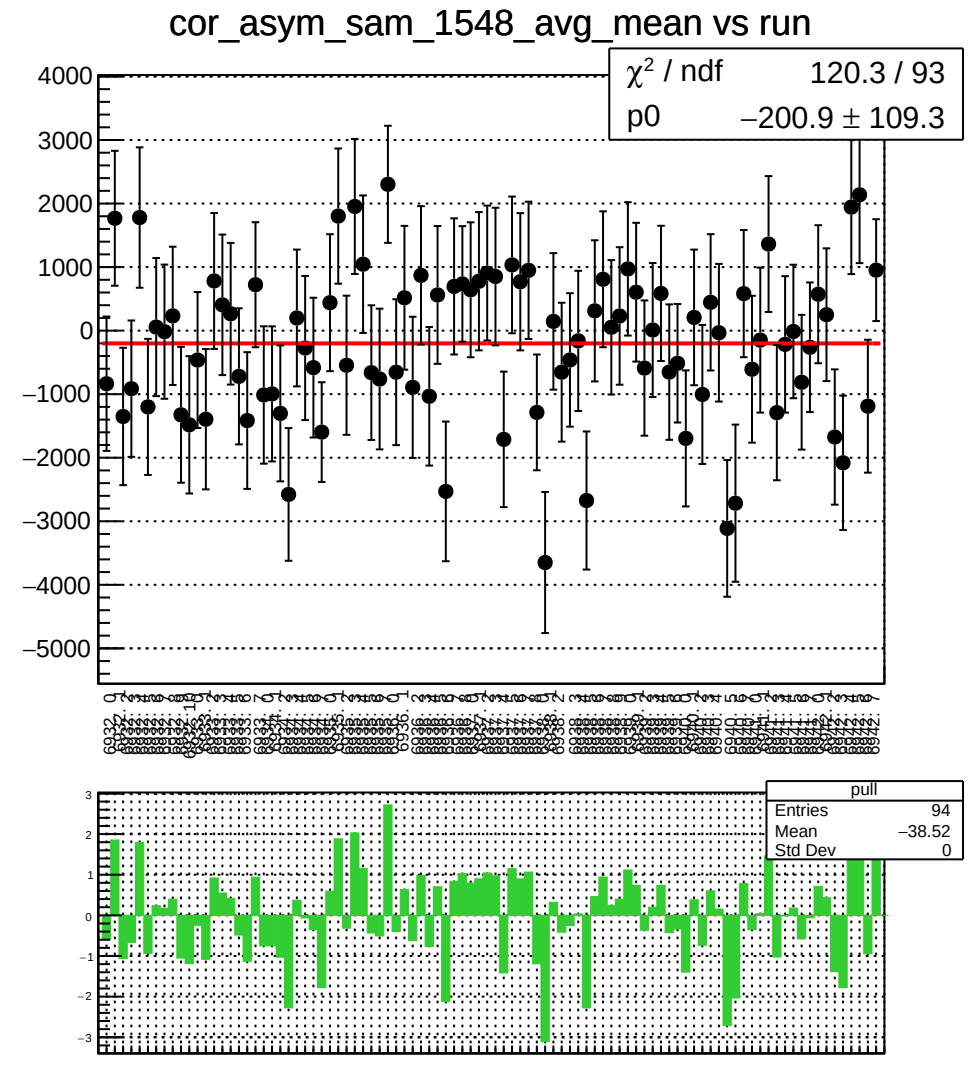

pull1D
Entries 94
Mean −0.00781
Std Dev 1.131

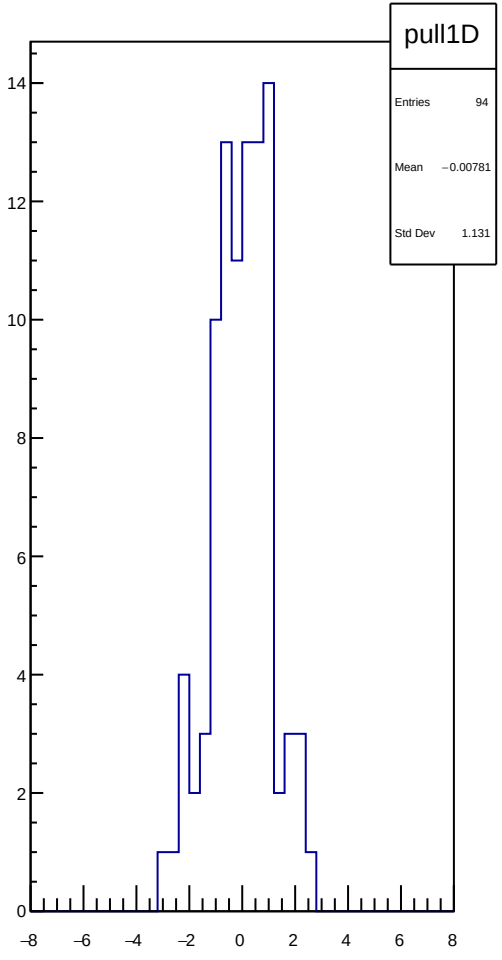

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1357 / 93
p0 102.6 ± 0.07729
120
115
110
105
100

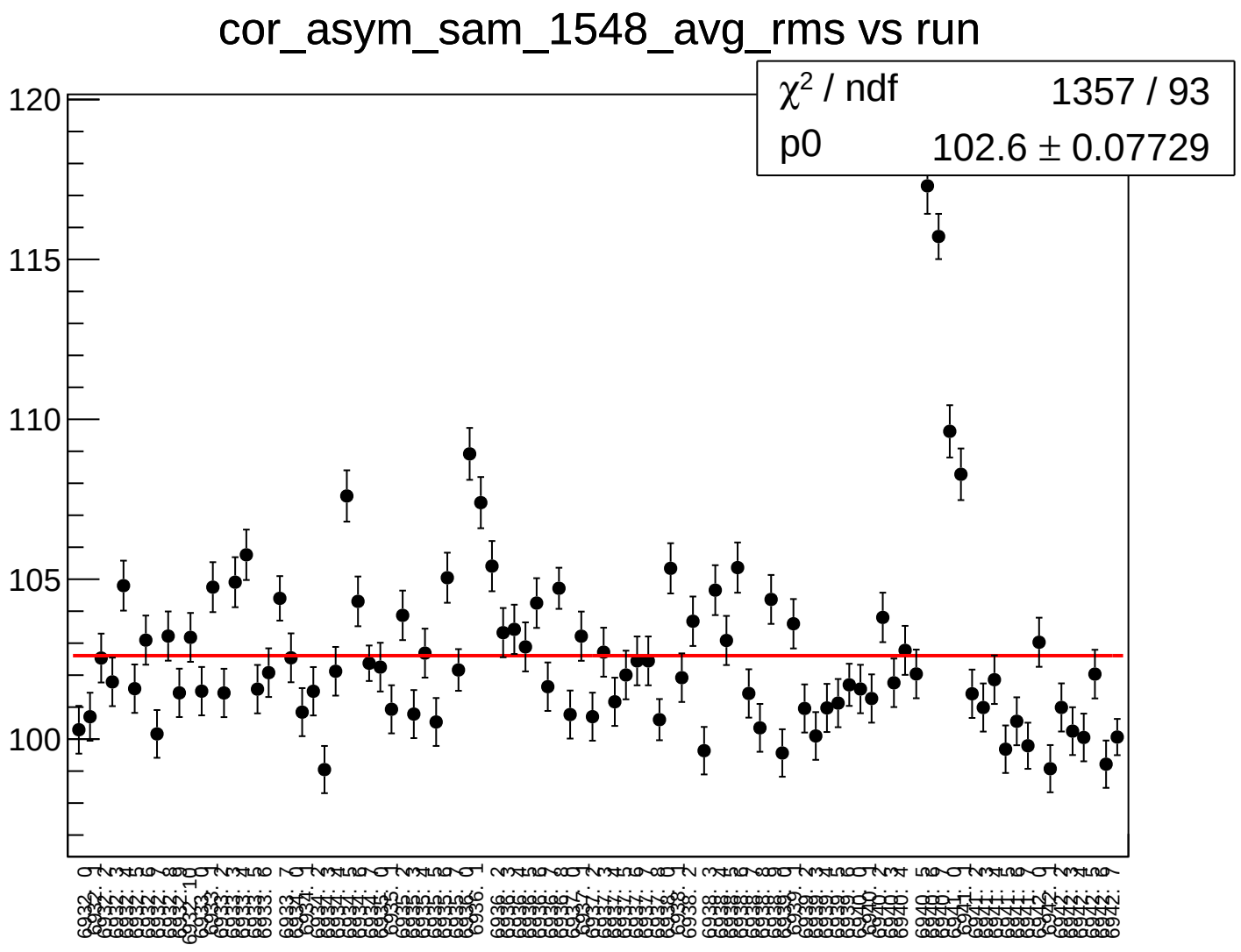

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 70.29 / 93
p0 641.6 ± 836.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 290.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

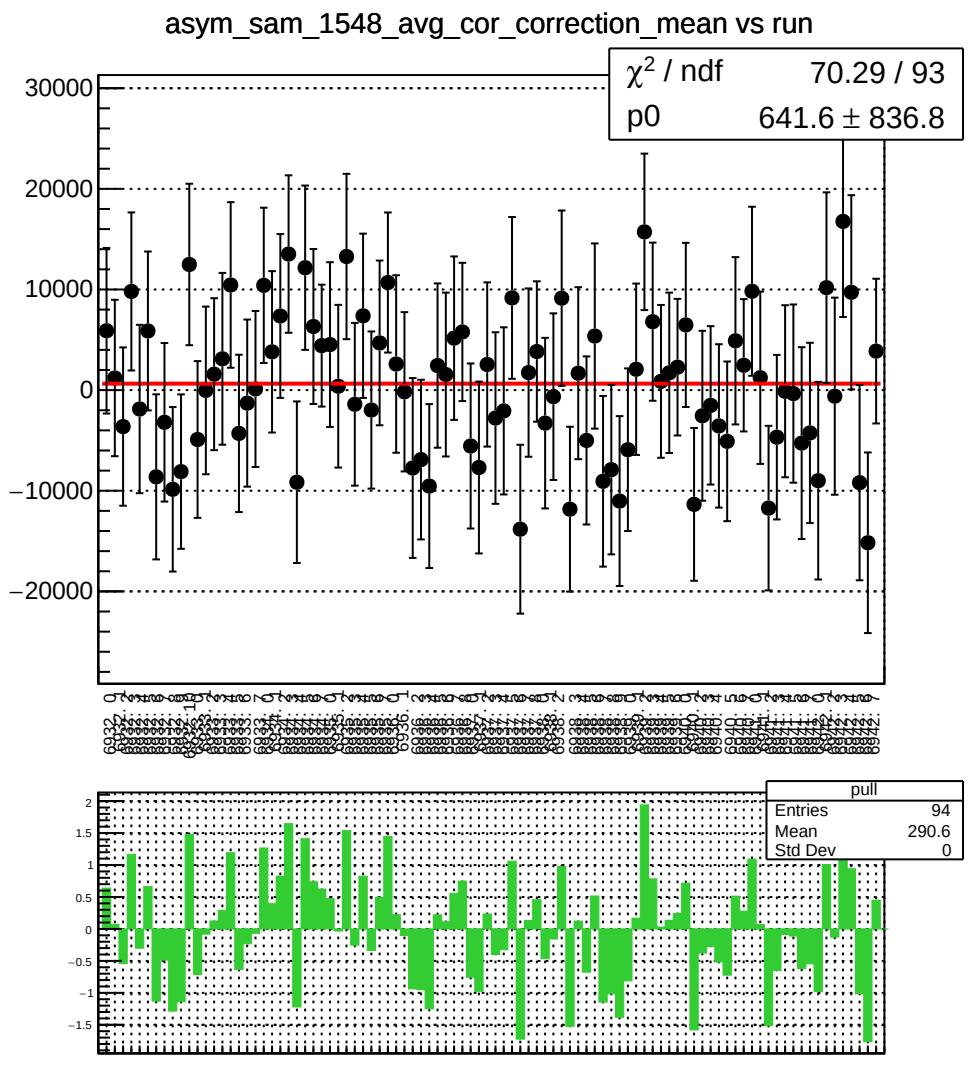

pull1D
Entries 94
Mean −0.01281
Std Dev 0.8646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

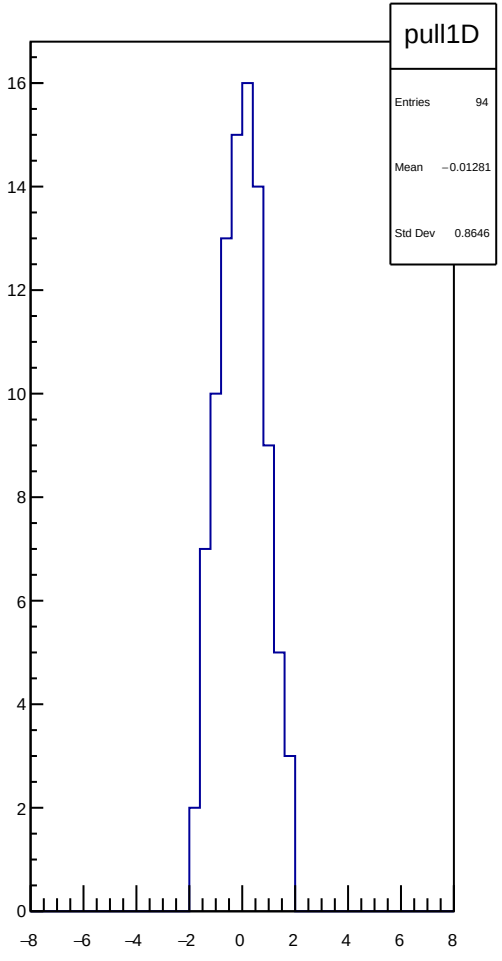

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 5929 / 93
p0 784.5 ± 0.5917
950
900
850
800
750
700

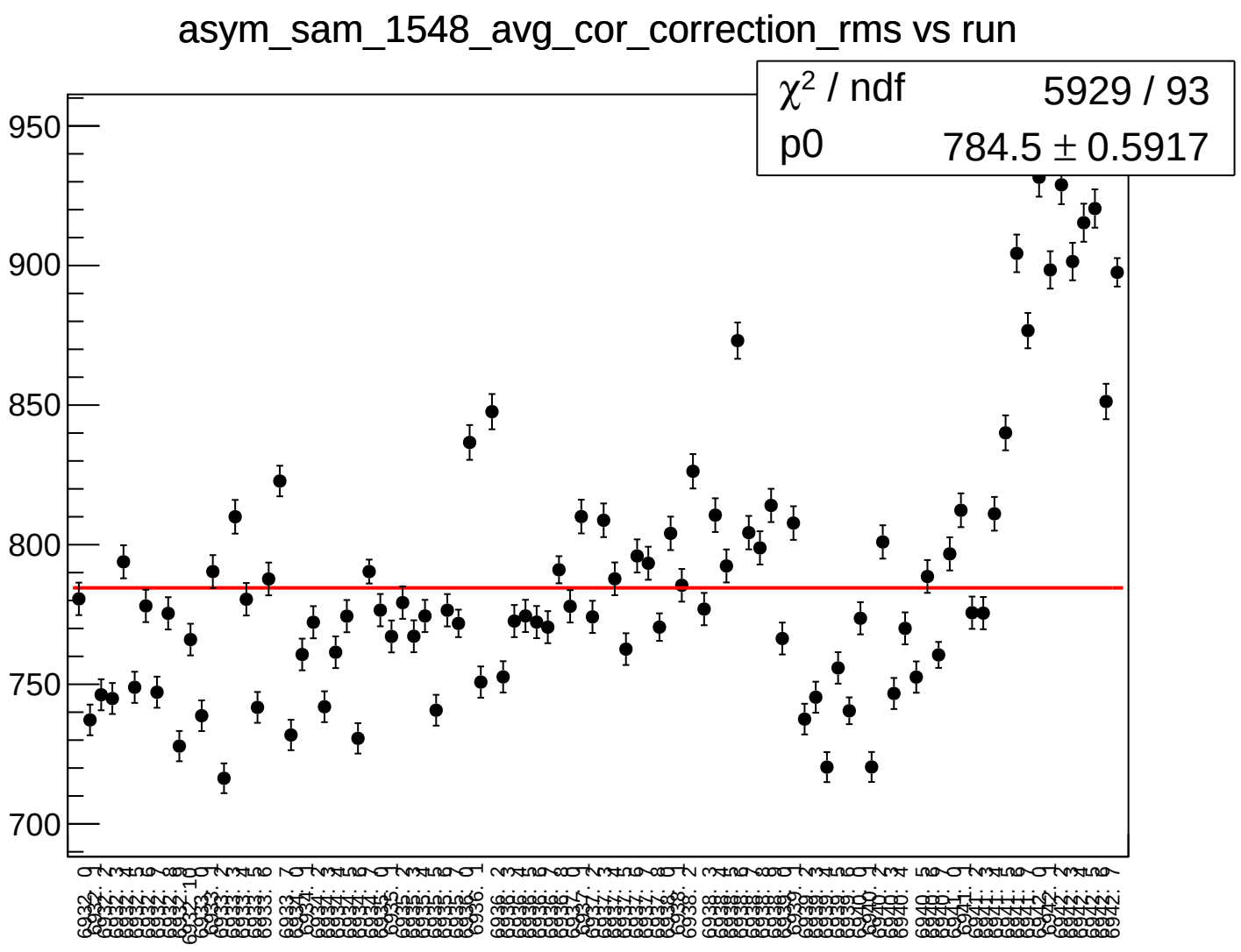

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 120.3 / 93
p0 −200.9 ± 109.3
pull
Entries 94
Mean −38.52
Std Dev 0

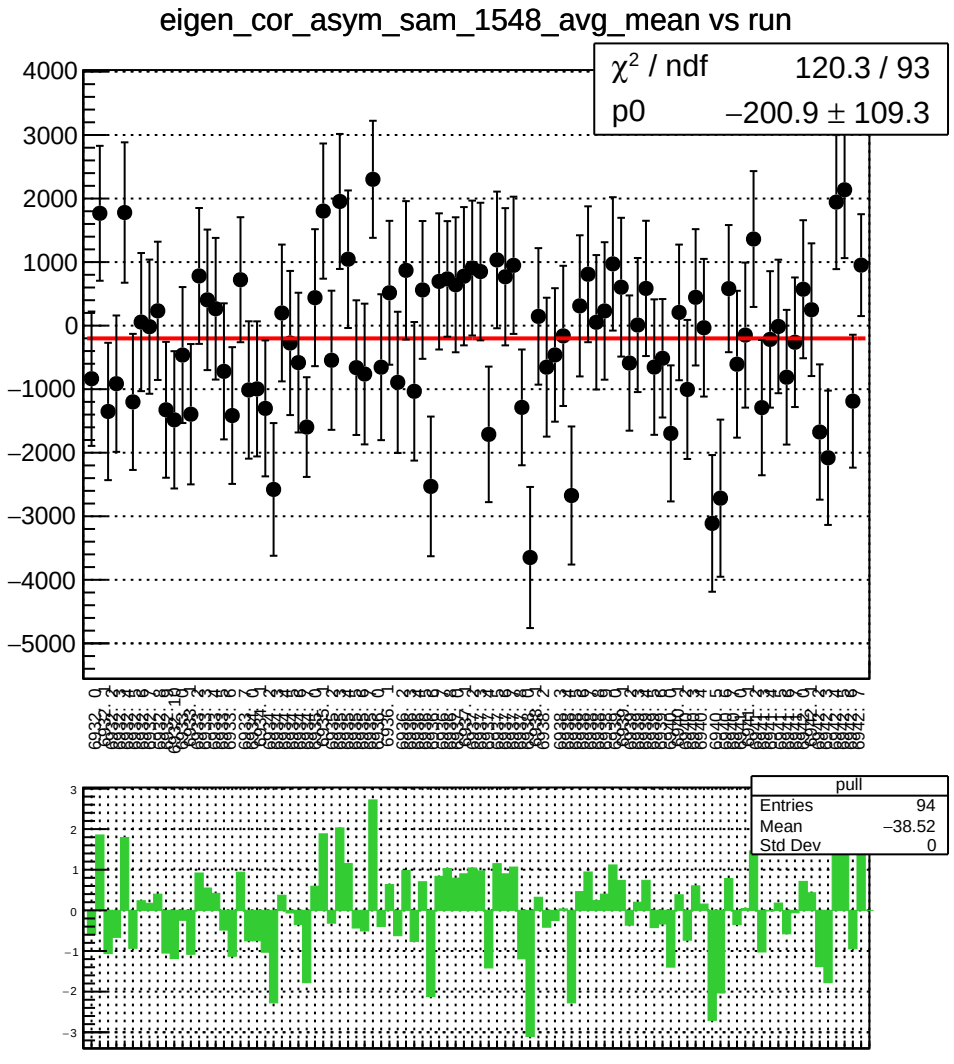

pull1D
Entries 94
Mean −0.00781
Std Dev 1.131

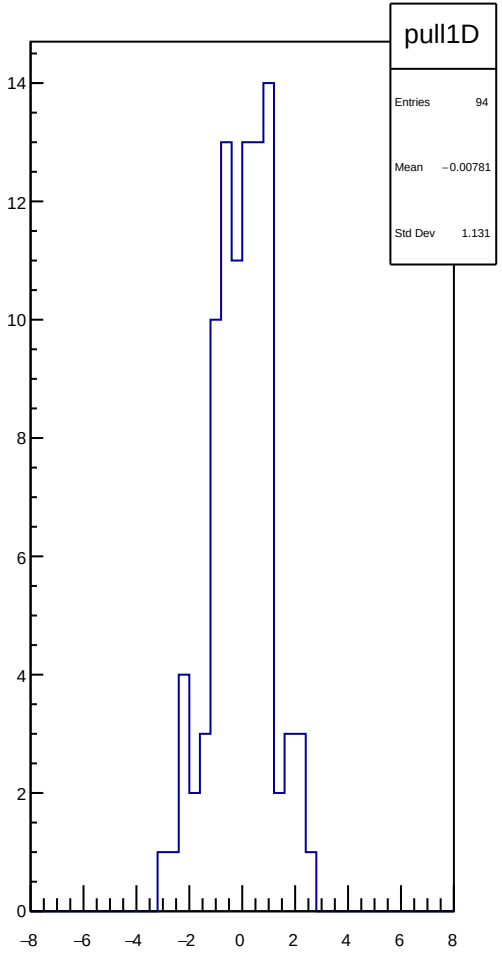

cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1357 / 93
p0 102.6 ± 0.07729
120
115
110
105
100

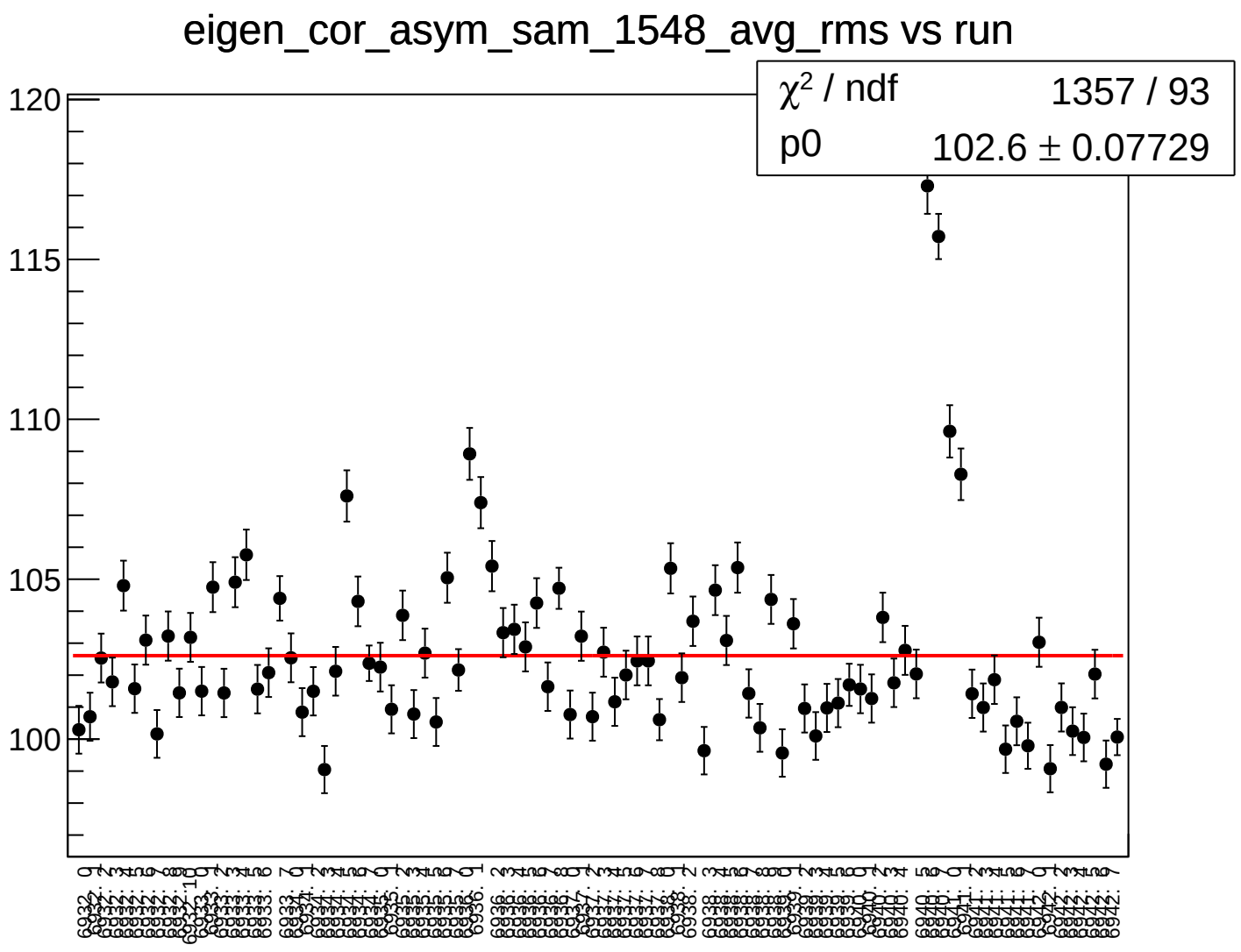

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 70.29 / 93
p0 641.6 ± 836.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 290.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

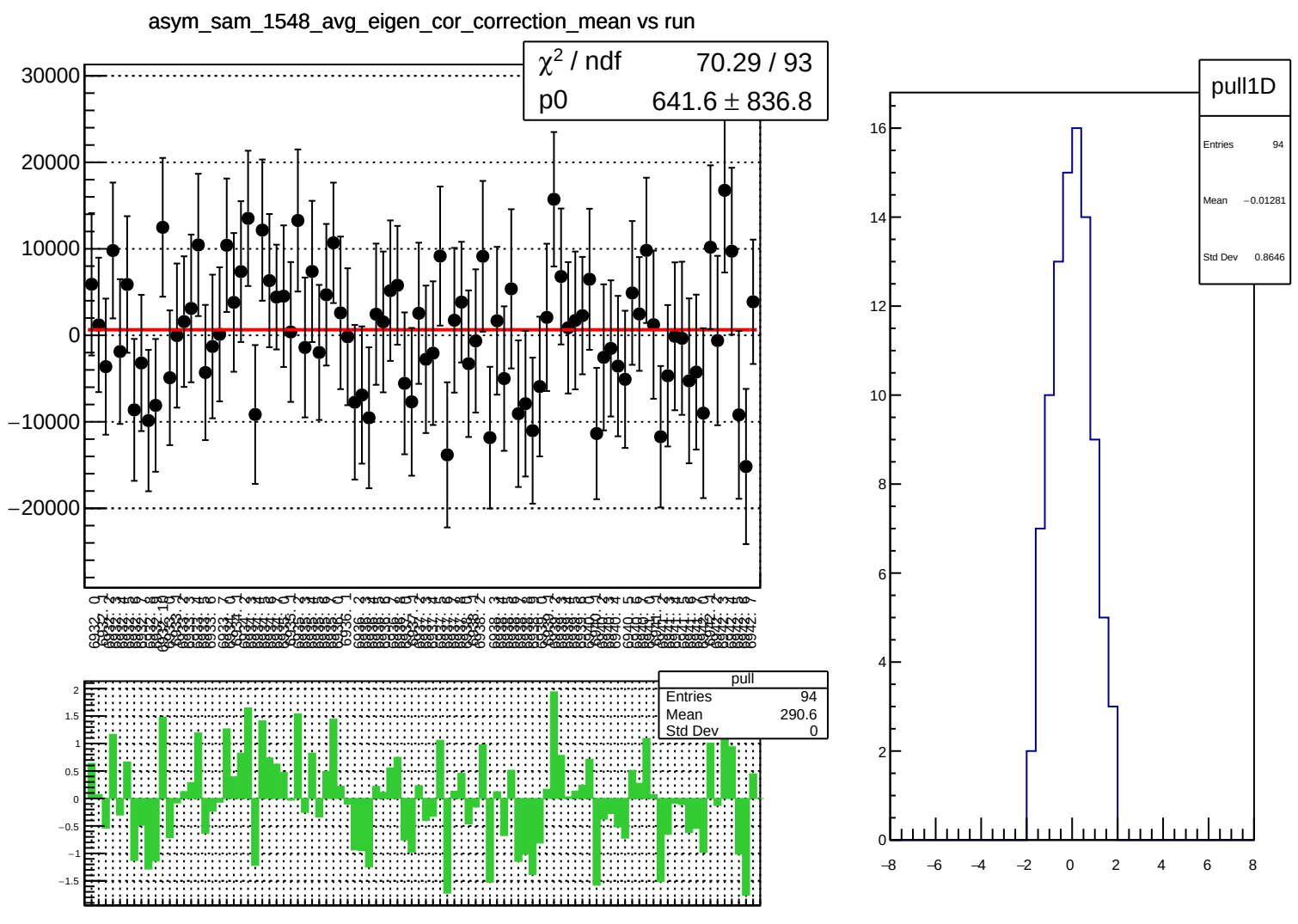

pull1D
Entries 94
Mean −0.01281
Std Dev 0.8646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

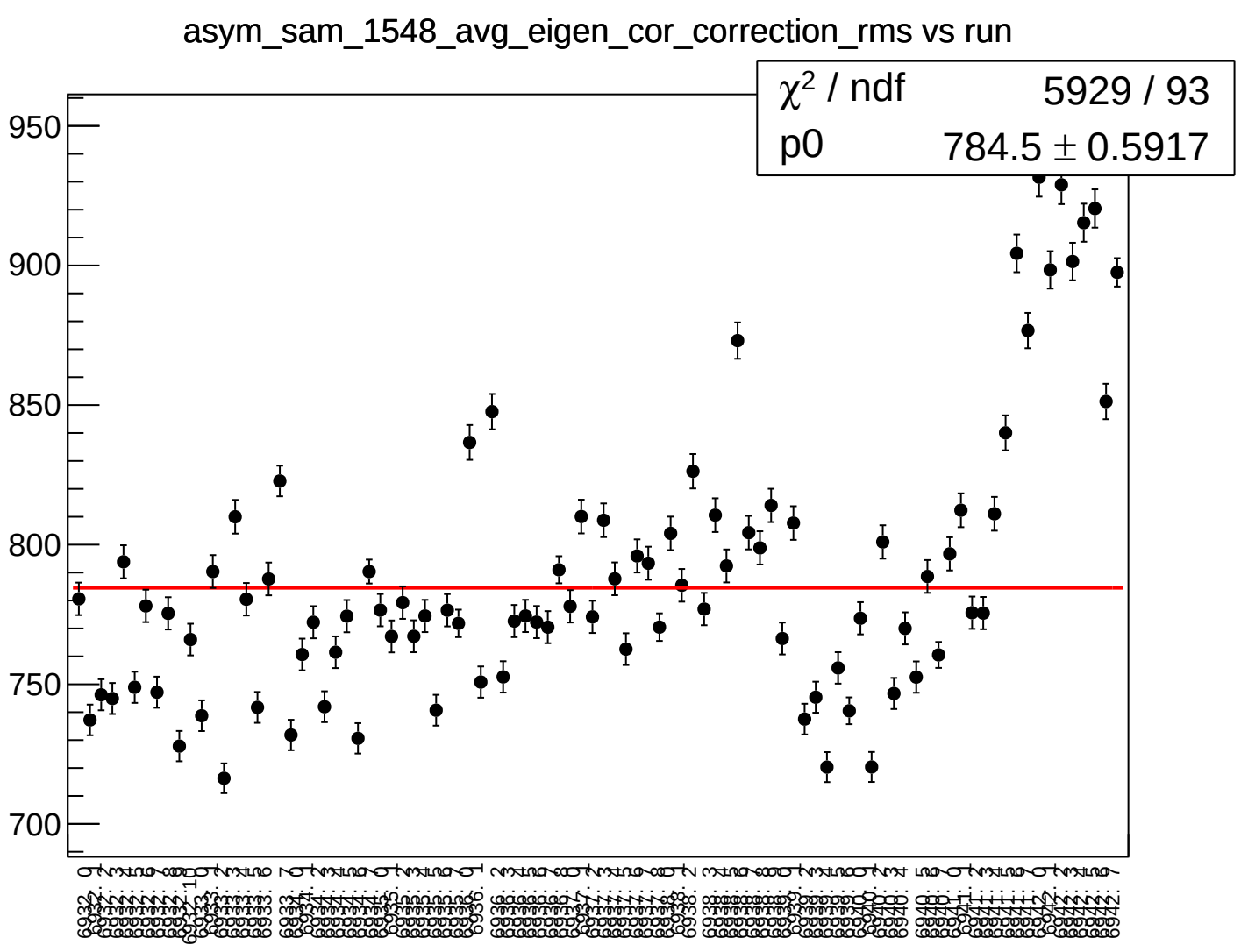

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 5929 / 93
p0 784.5 ± 0.5917
950
900
850
800
750
700

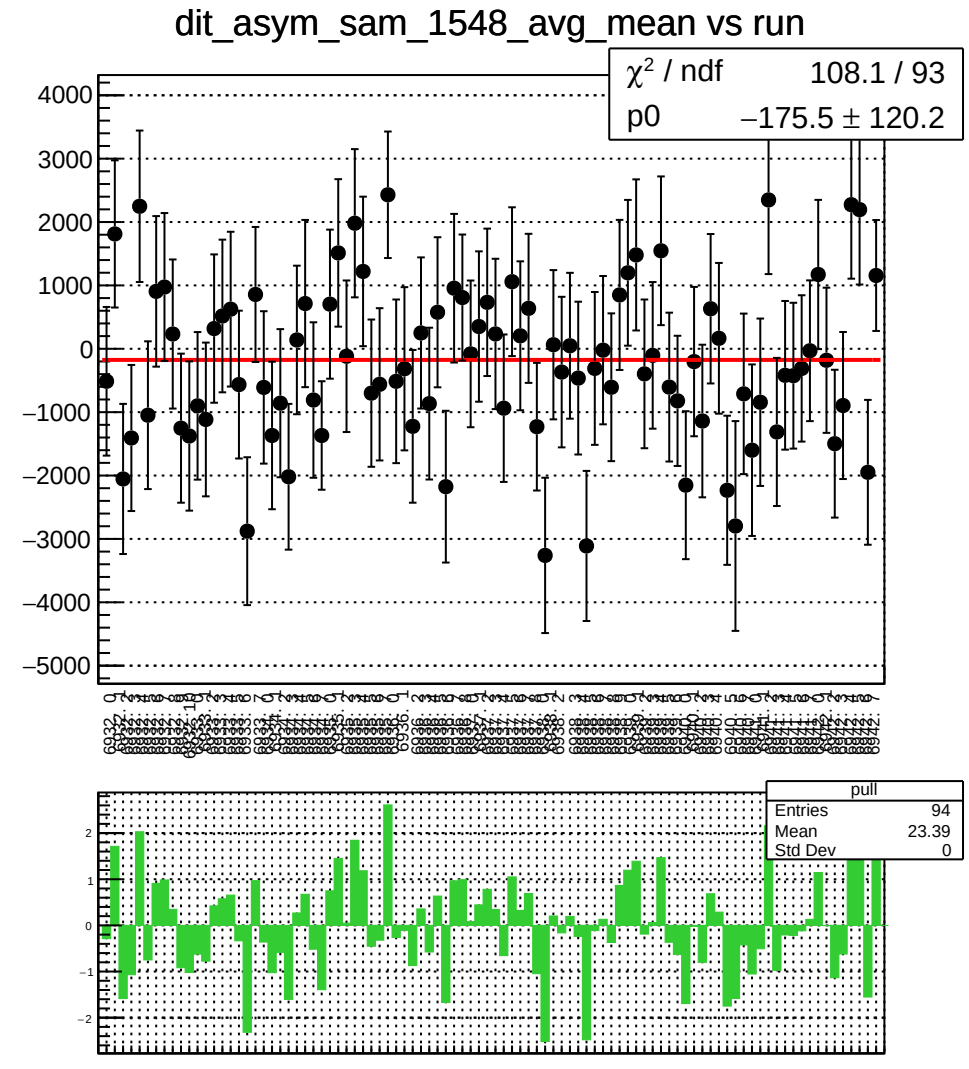

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 120.3 / 93
p0 −200.9 ± 109.3
pull
Entries 94
Mean −38.52
Std Dev 0

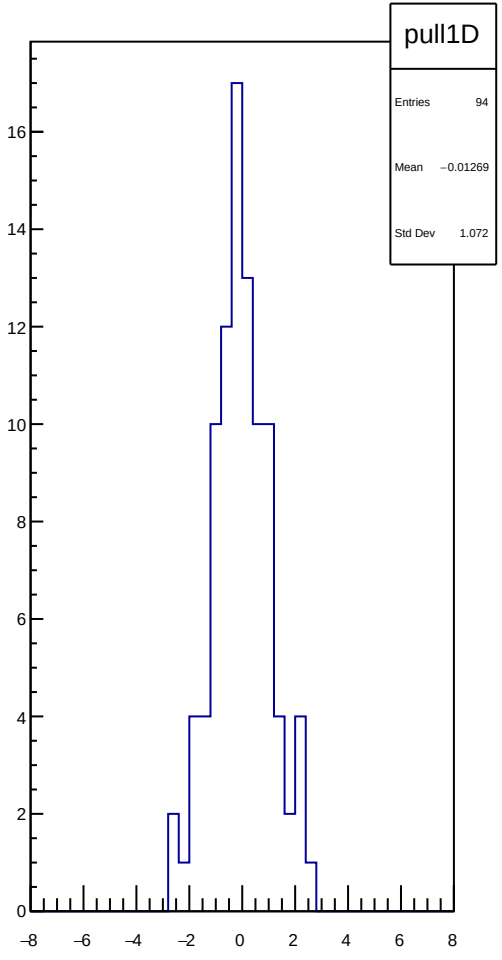

pull1D
Entries 94
Mean −0.00781
Std Dev 1.131

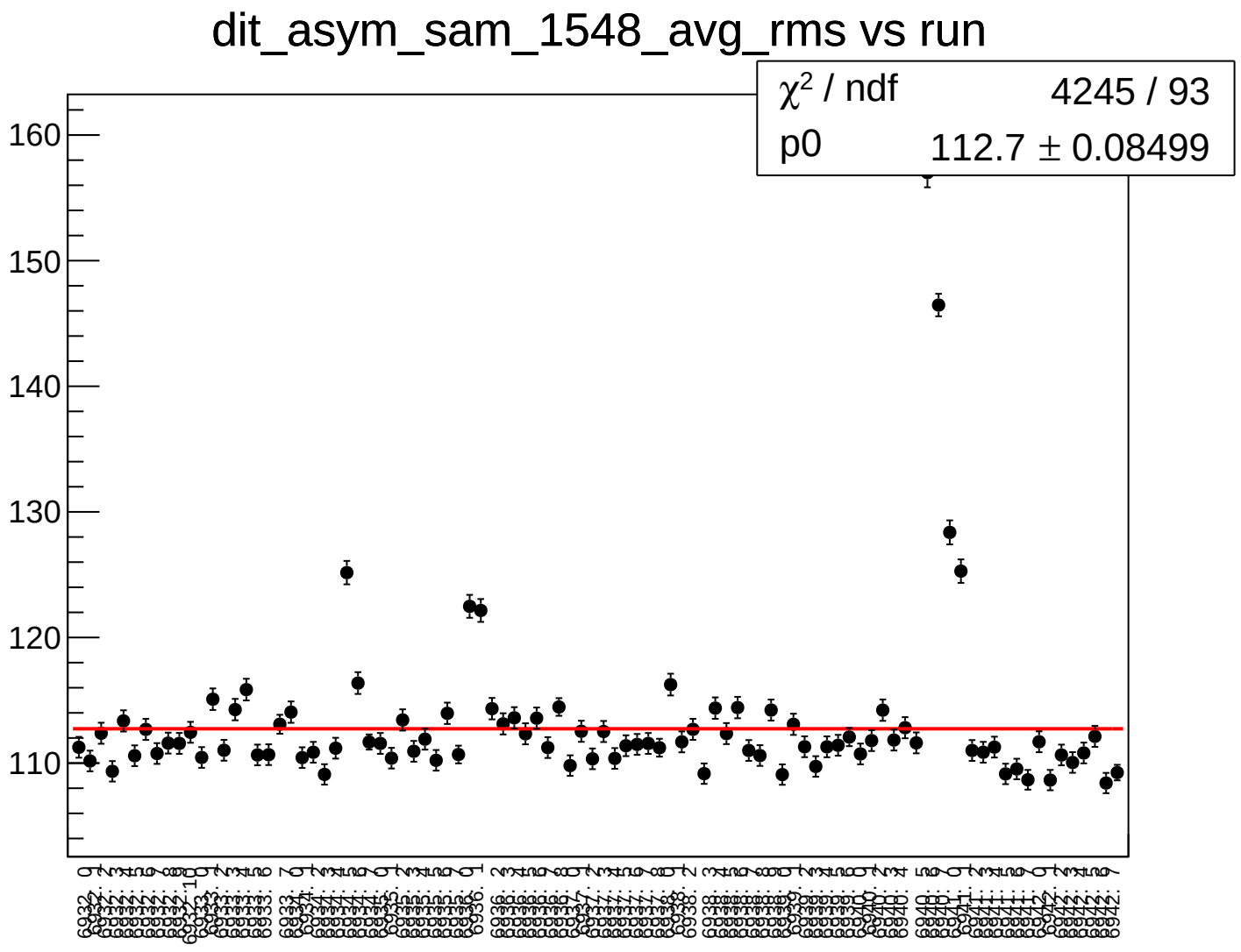

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1357 / 93
p0 102.6 ± 0.07729
120
115
110
105
100

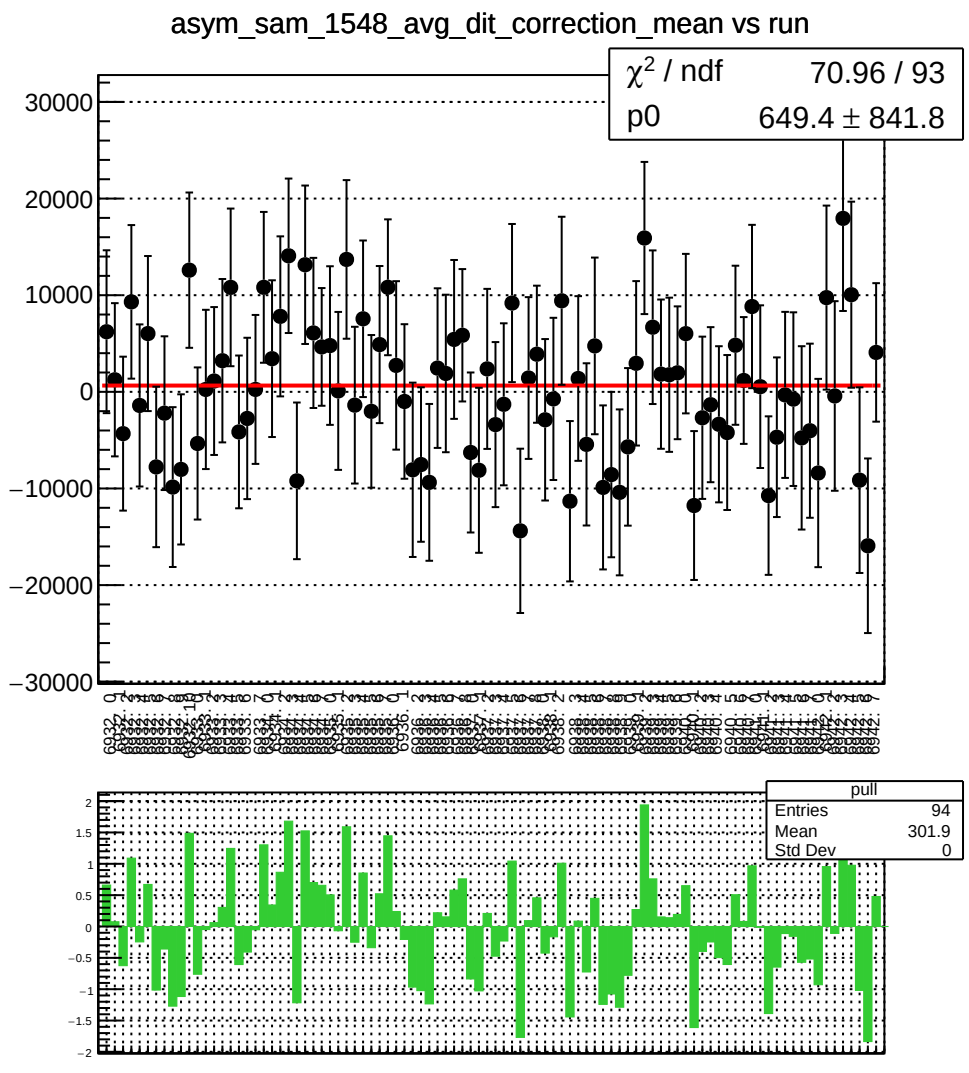

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.29 / 93
p0 641.6 ± 836.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 290.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.01281
Std Dev 0.8646
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

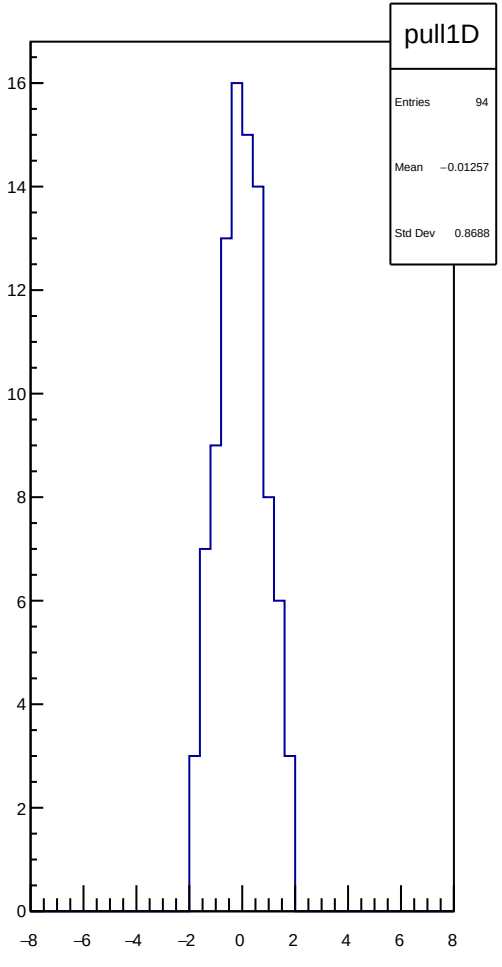

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 5929 / 93
p0 784.5 ± 0.5917
950
900
850
800
750
700

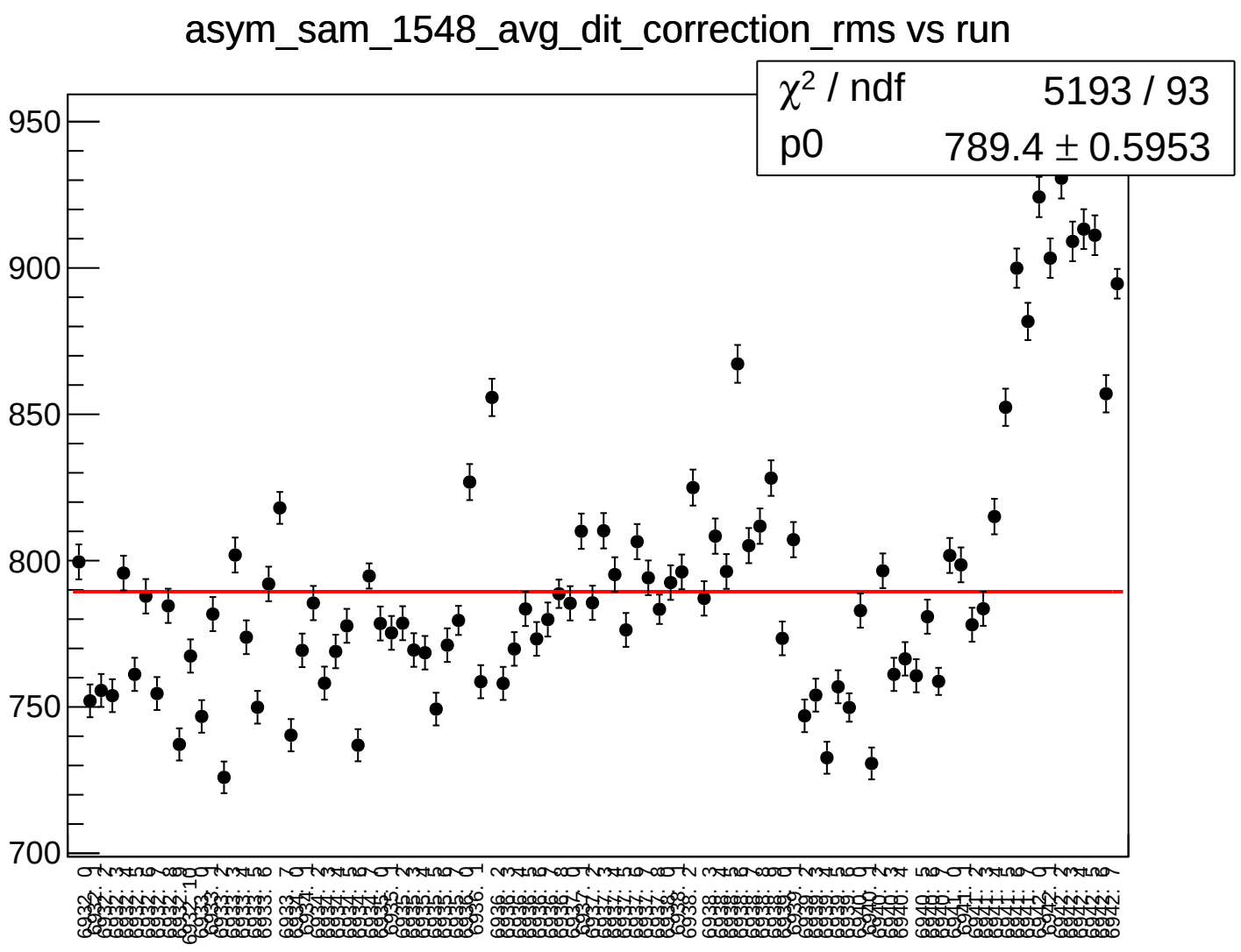

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 108.1 / 93
p0 −175.5 ± 120.2
pull
Entries 94
Mean 23.39
Std Dev 0

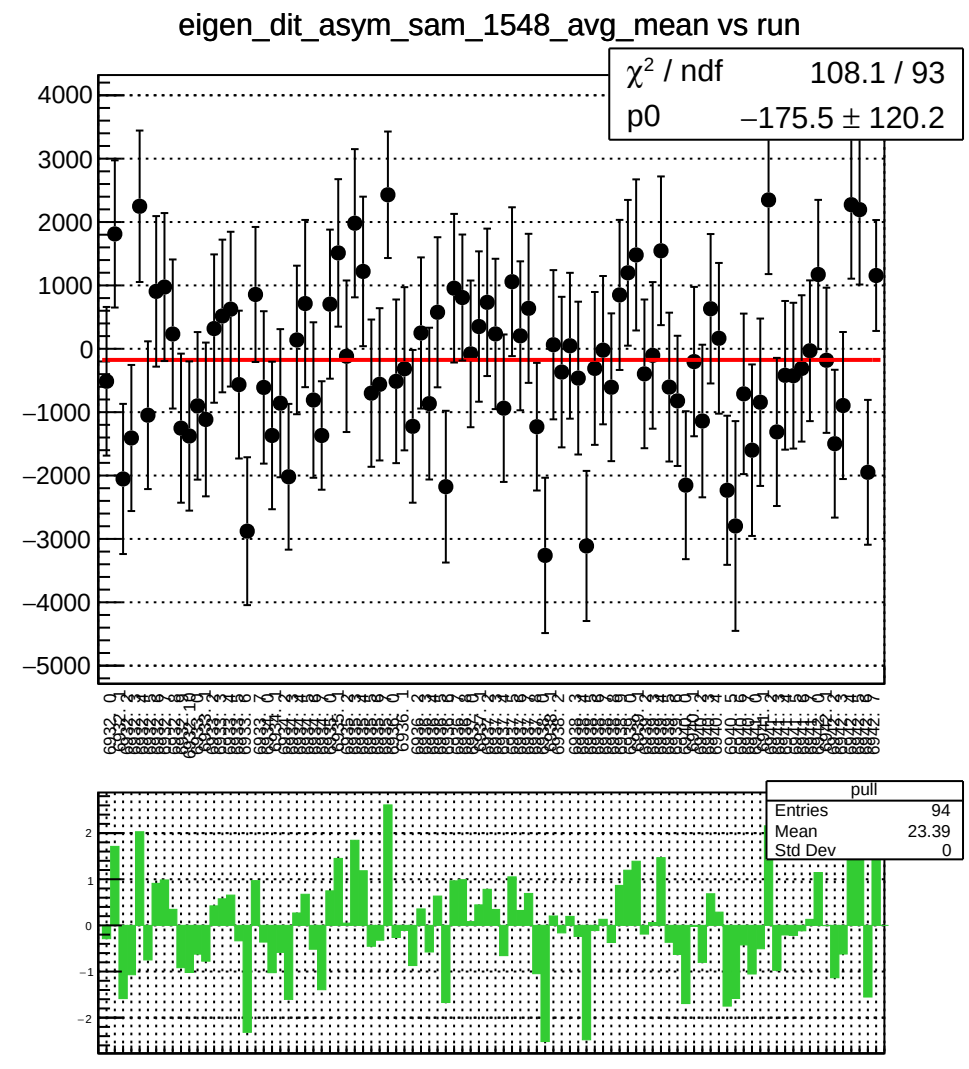

pull1D
Entries 94
Mean −0.01269
Std Dev 1.072

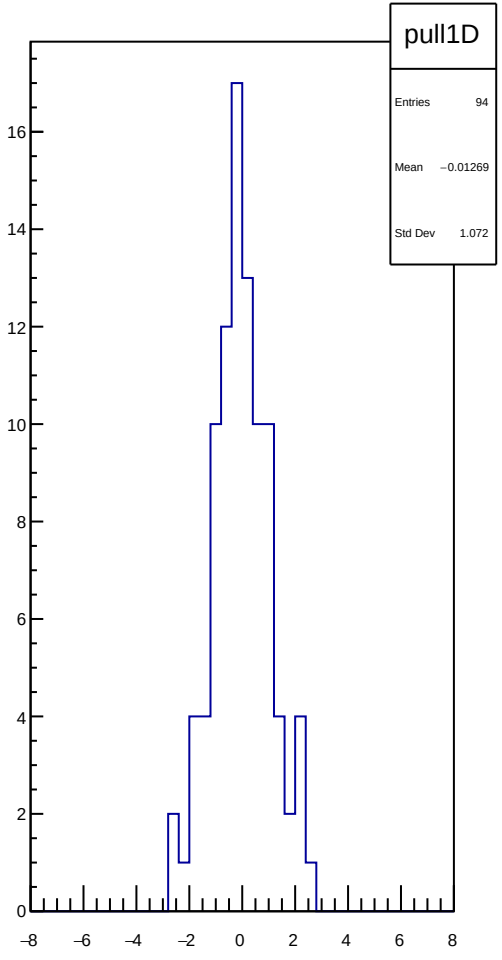

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4245 / 93
p0 112.7 ± 0.08499
160
150
140
130
120
110

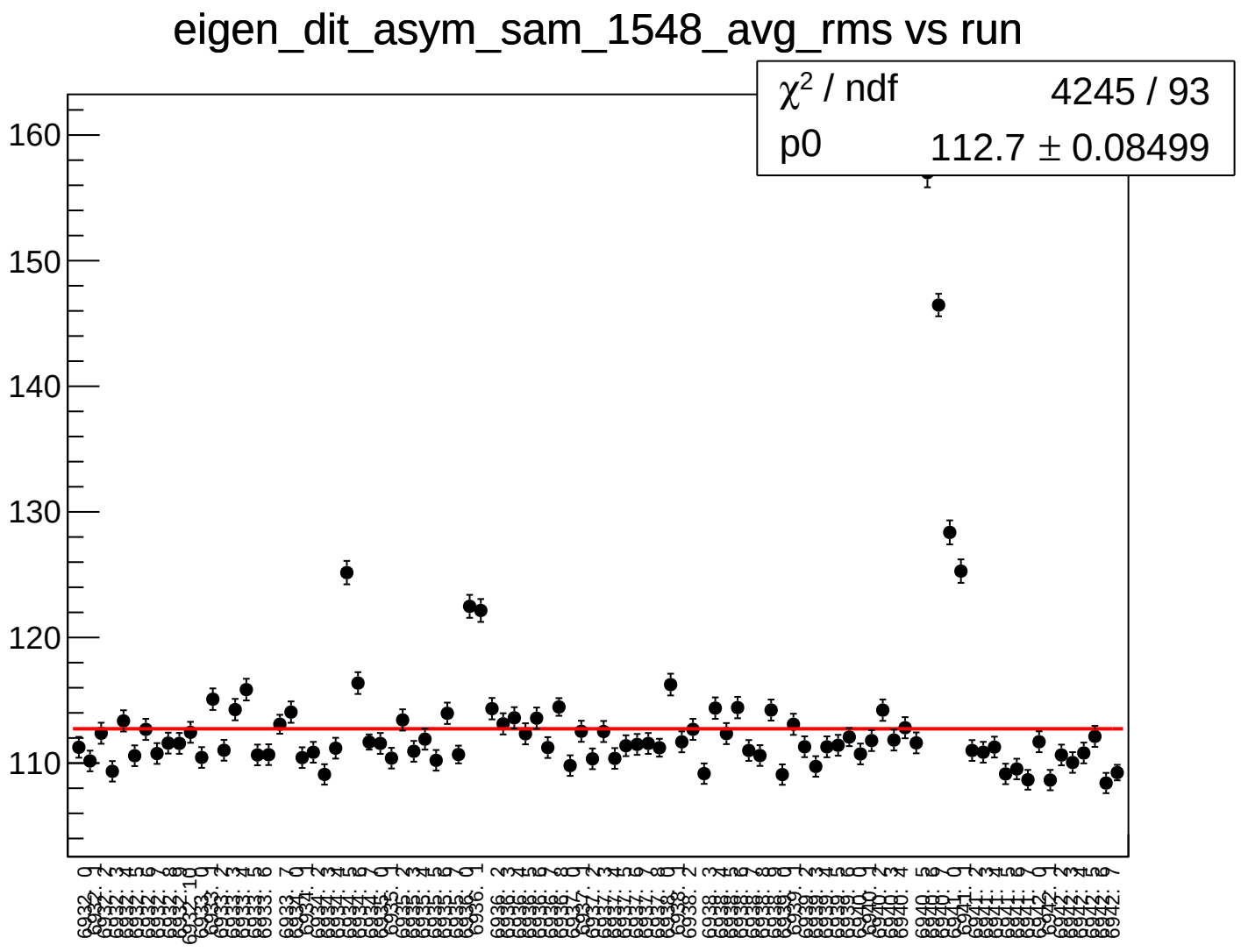

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 70.96 / 93
p0 649.4 ± 841.8
pull
Entries 94
Mean 301.9
Std Dev 0

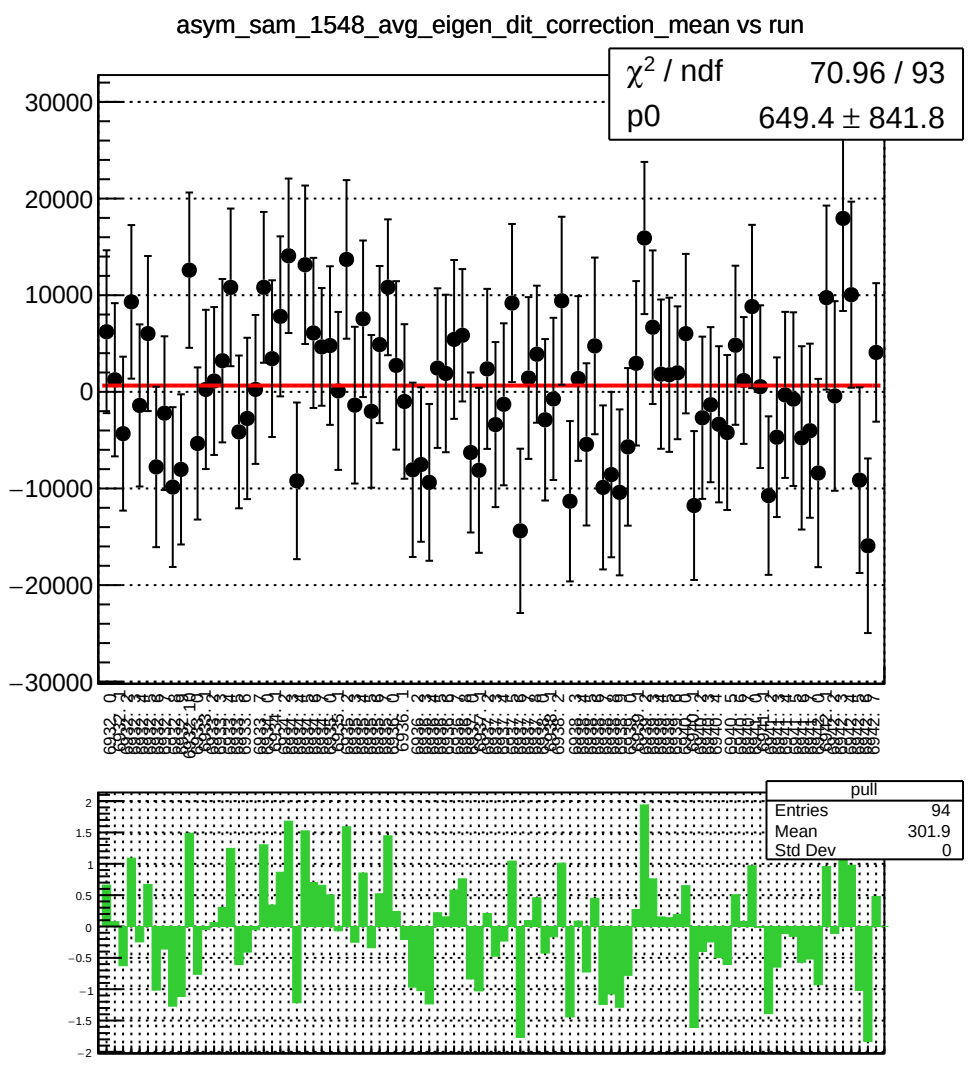

pull1D
Entries 94
Mean −0.01257
Std Dev 0.8688

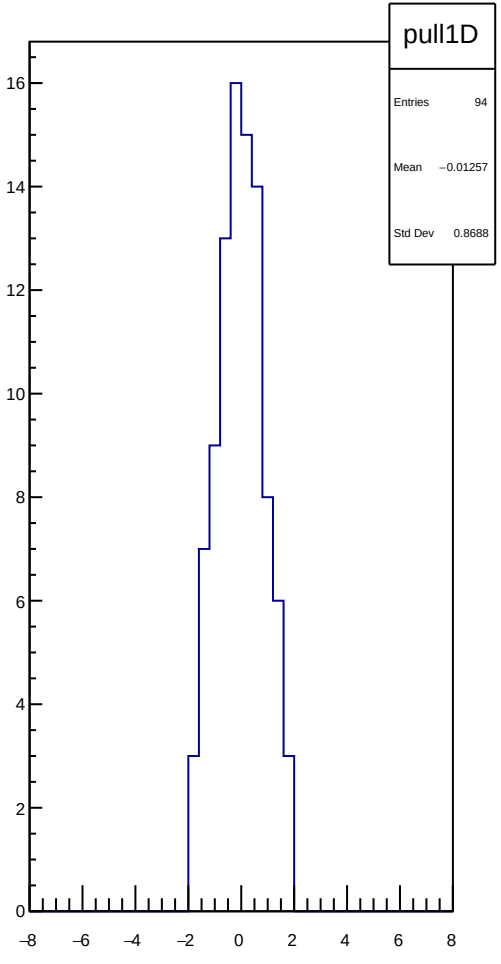

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 5193 / 93
p0 789.4 ± 0.5953
950
900
850
800
750
700

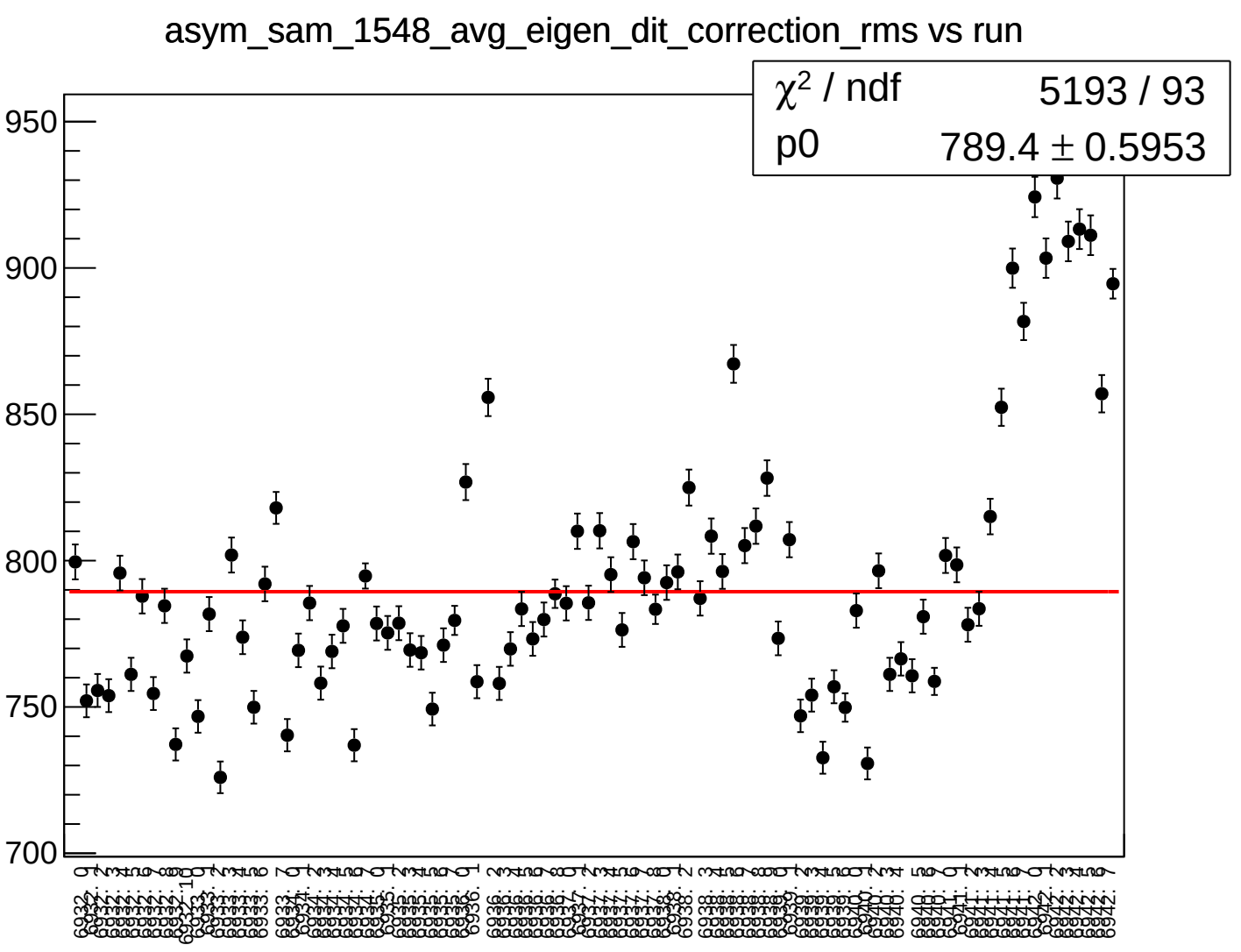

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 108.1 / 93
p0 −175.5 ± 120.2
pull
Entries 94
Mean 23.39
Std Dev 0

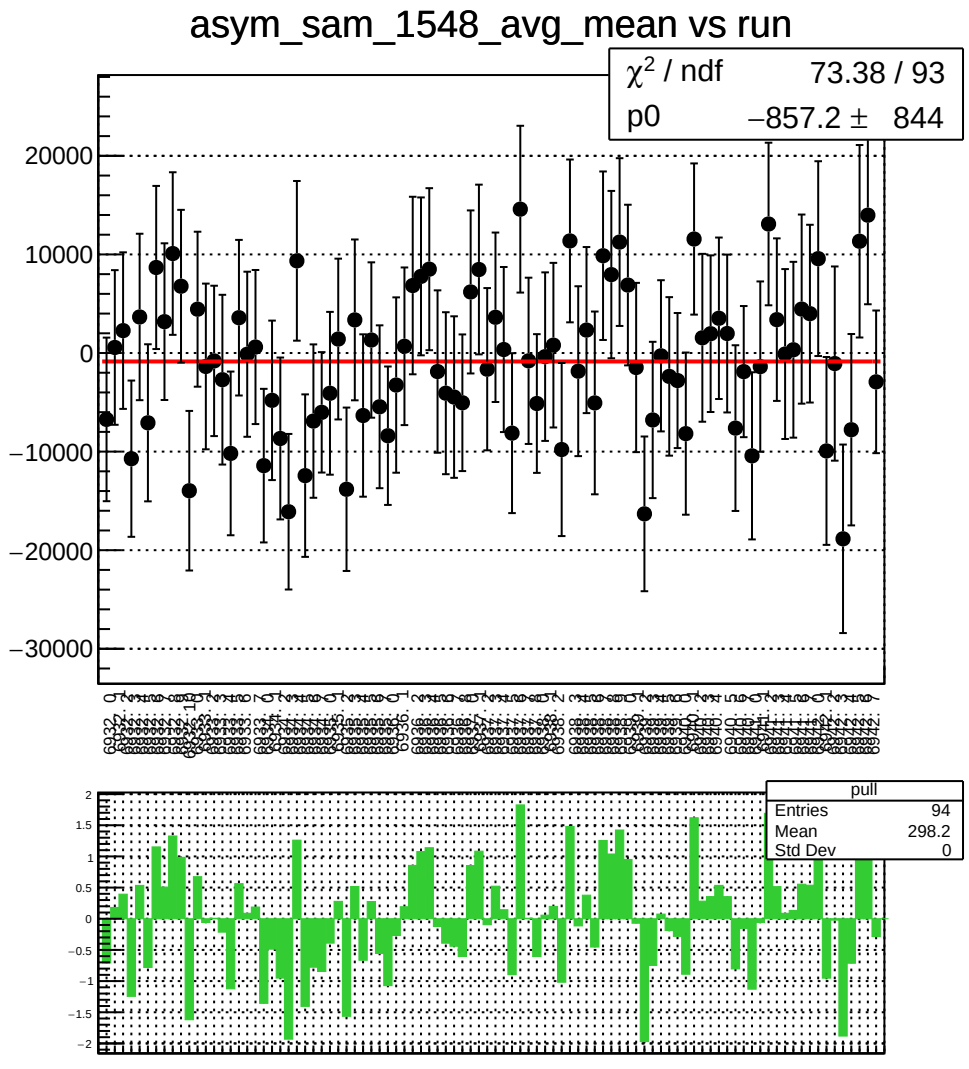

pull1D
Entries 94
Mean −0.01269
Std Dev 1.072

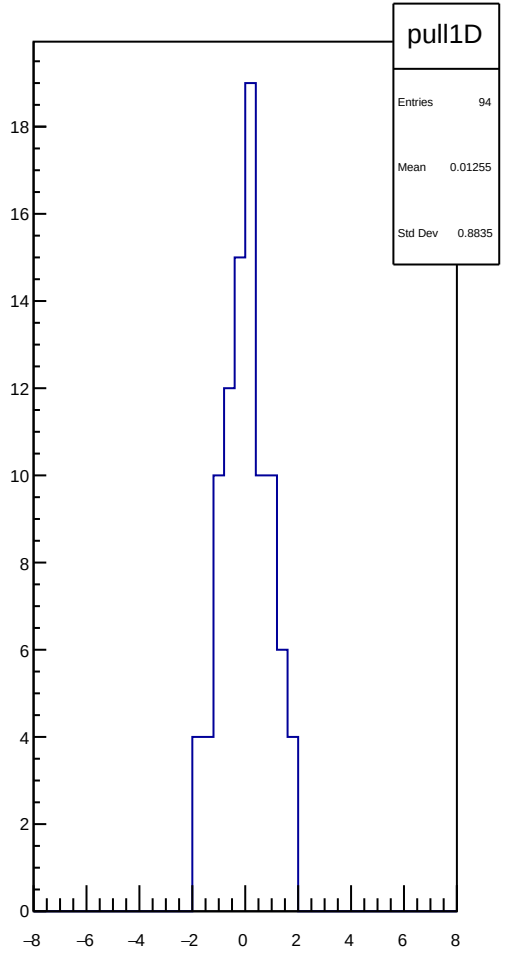

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 4245 / 93
p0 112.7 ± 0.08499
160
150
140
130
120
110

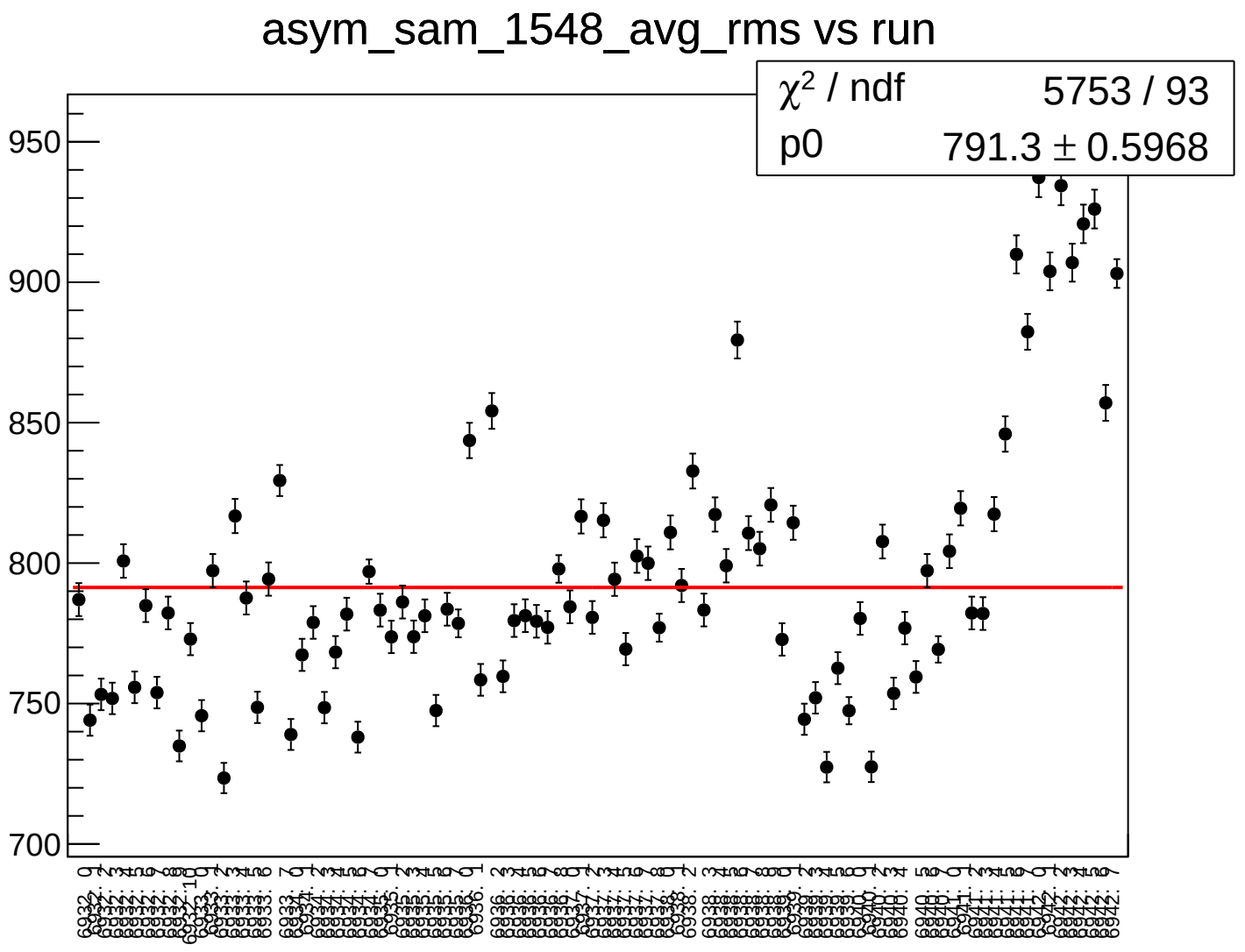

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.96 / 93
p0 649.4 ± 841.8
pull
Entries 94
Mean 301.9
Std Dev 0

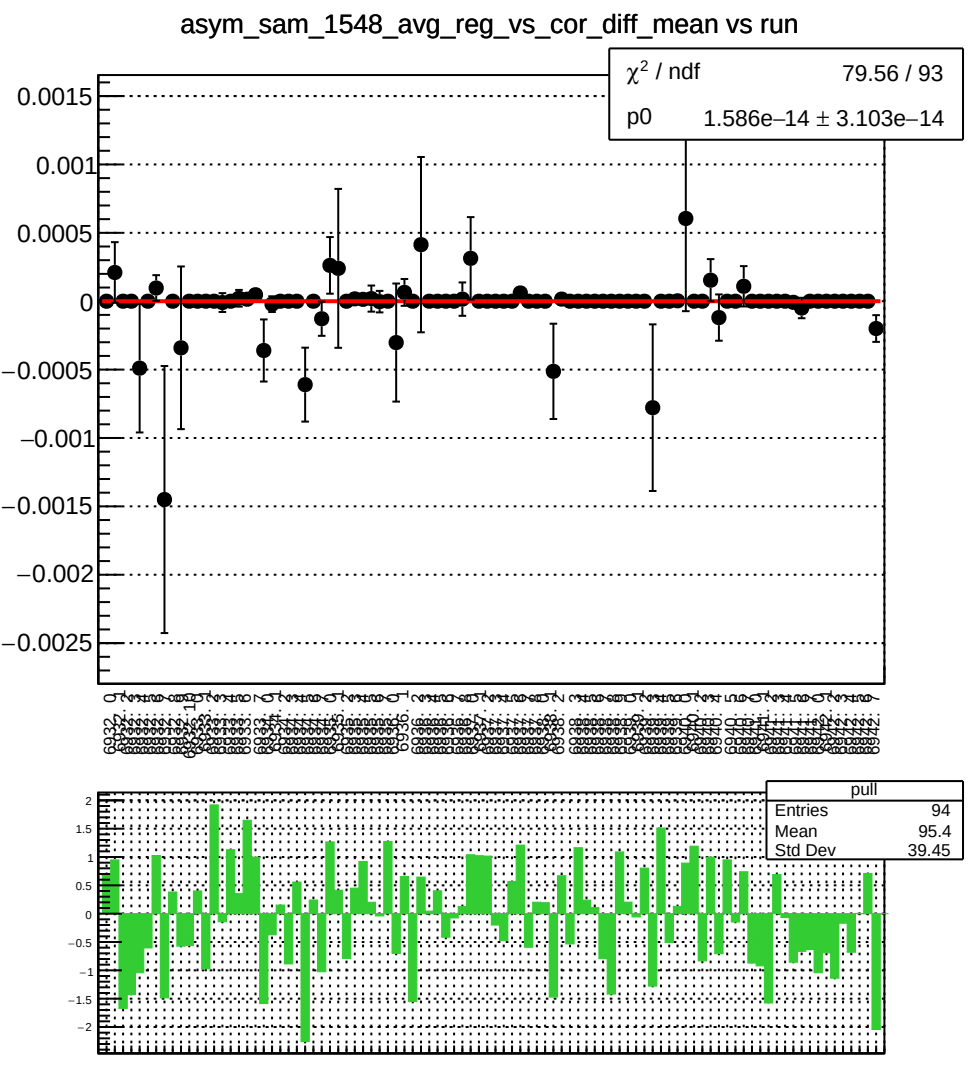

pull1D
Entries 94
Mean −0.01257
Std Dev 0.8688

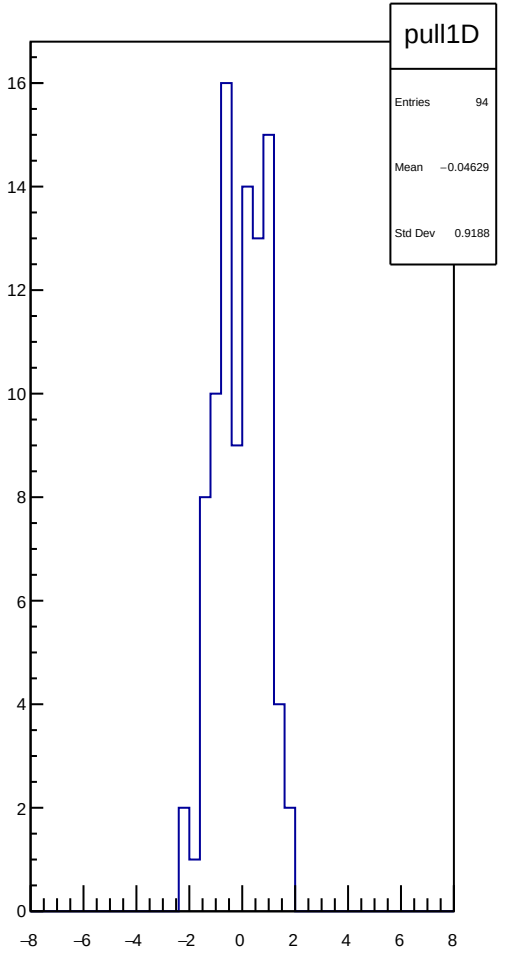

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 5193 / 93
p0 789.4 ± 0.5953
950
900
850
800
750
700

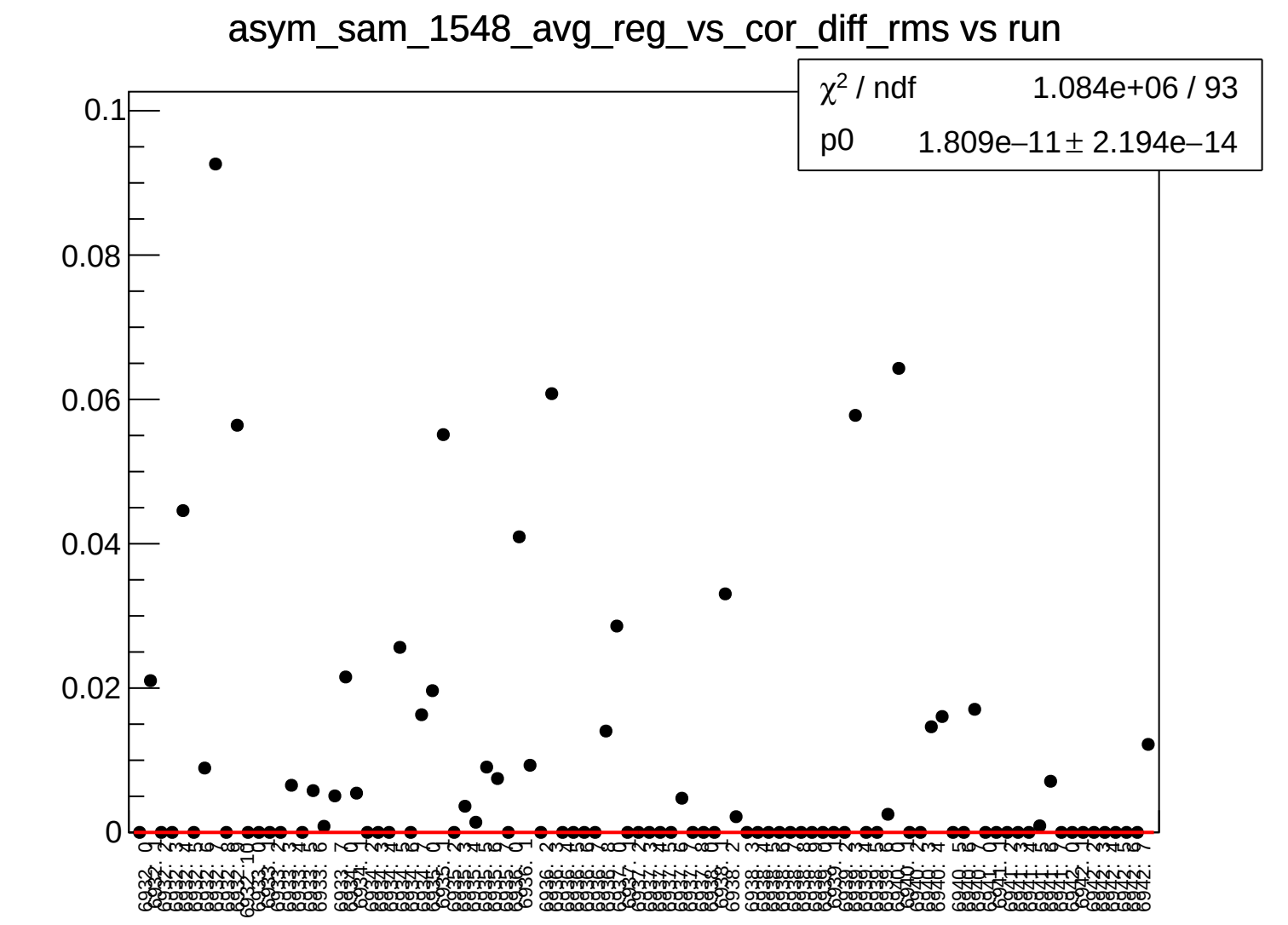

asym_sam_1548_avg_mean vs run
χ² / ndf 73.38 / 93
p0 −857.2 ± 844
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 298.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

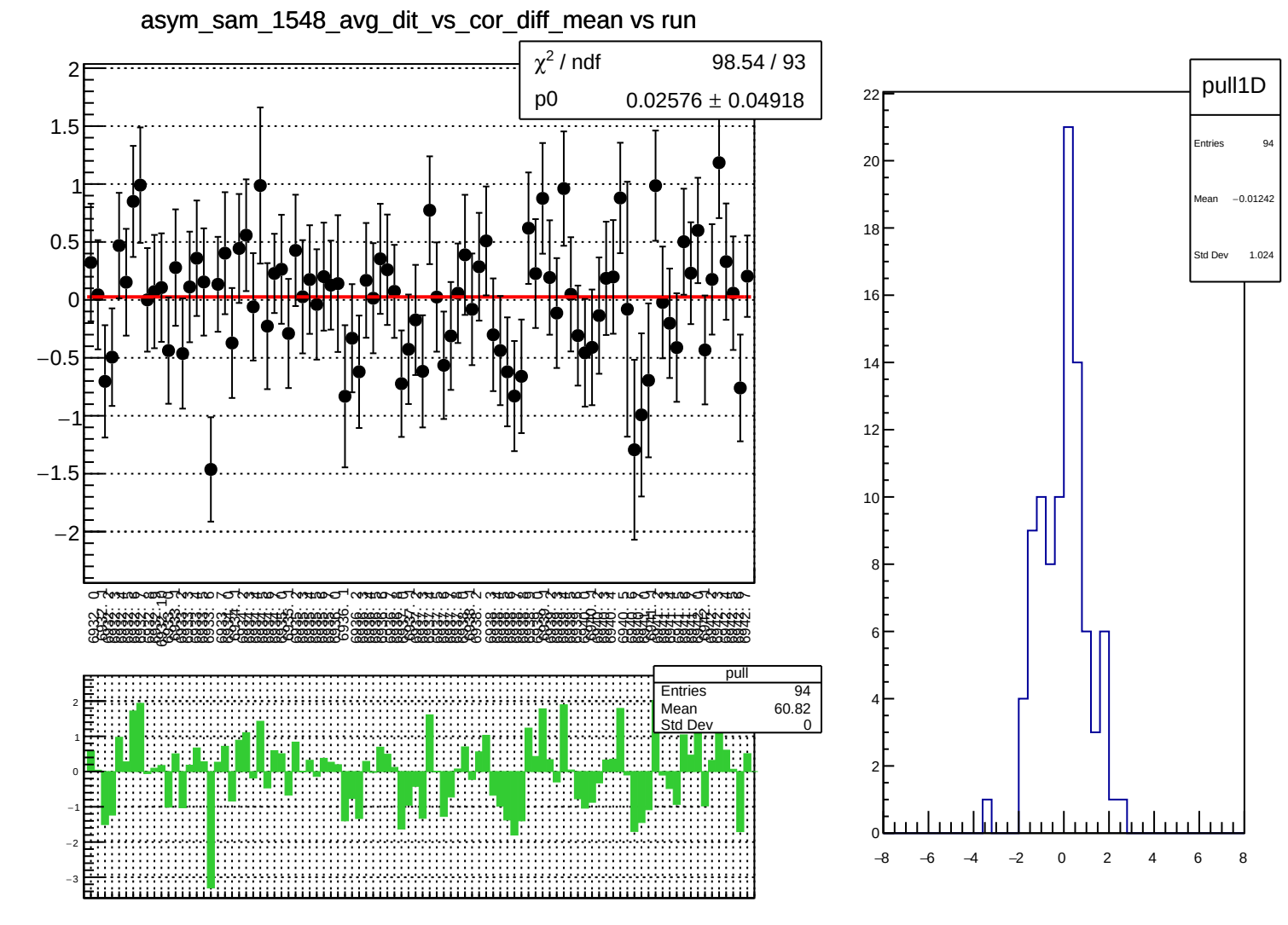

pull1D
Entries 94
Mean 0.01255
Std Dev 0.8835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

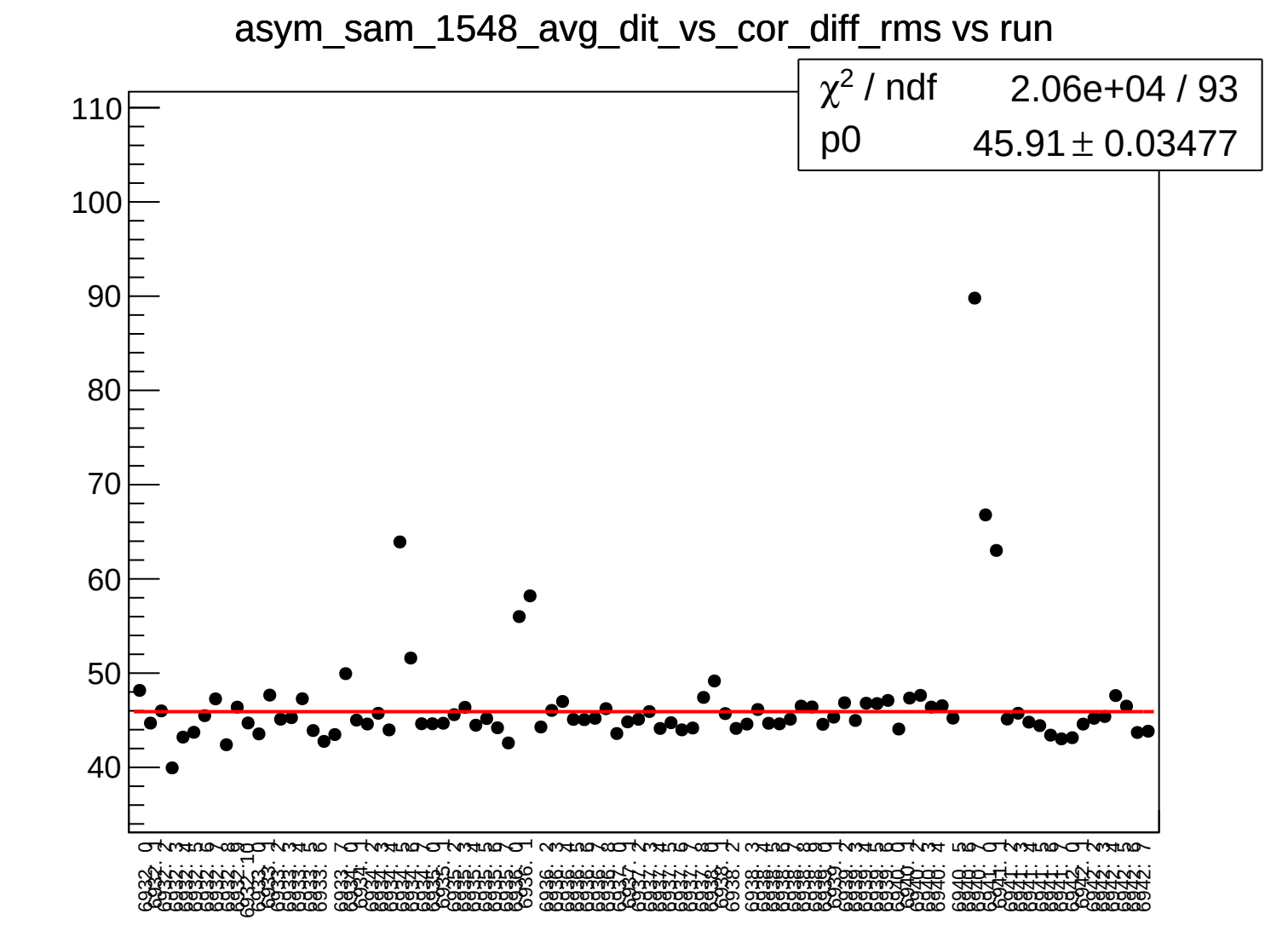

asym_sam_1548_avg_rms vs run
χ² / ndf 5753 / 93
p0 791.3 ± 0.5968
950
900
850
800
750
700

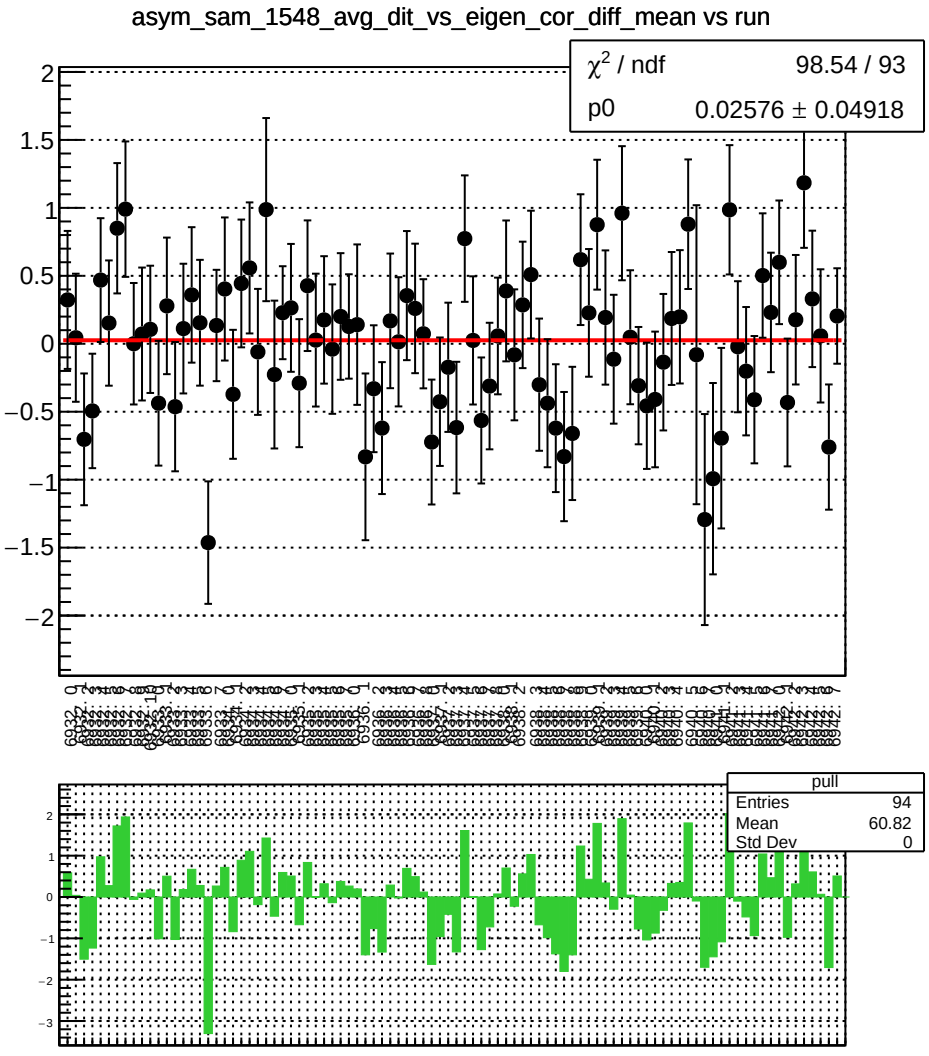

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 93
p0 1.586e−14 ± 3.103e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 94
Mean 95.4
Std Dev 39.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

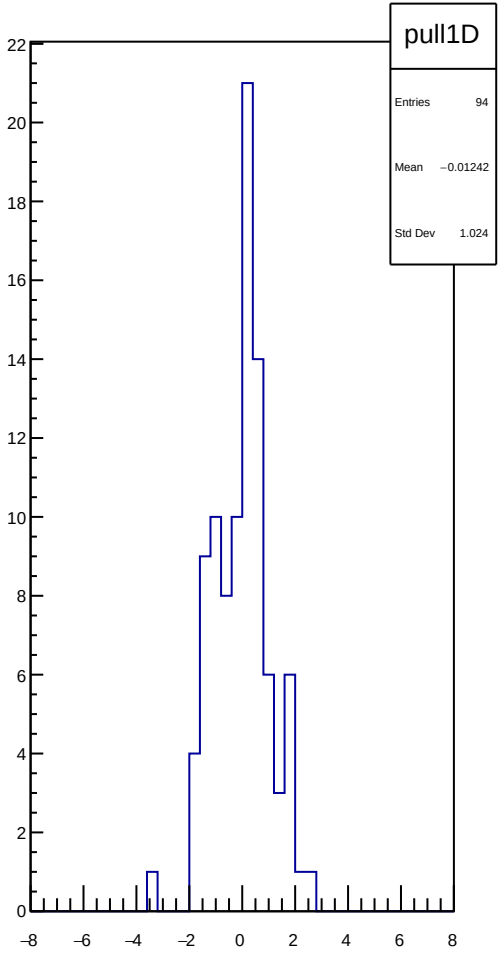

pull1D
Entries 94
Mean −0.04629
Std Dev 0.9188
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

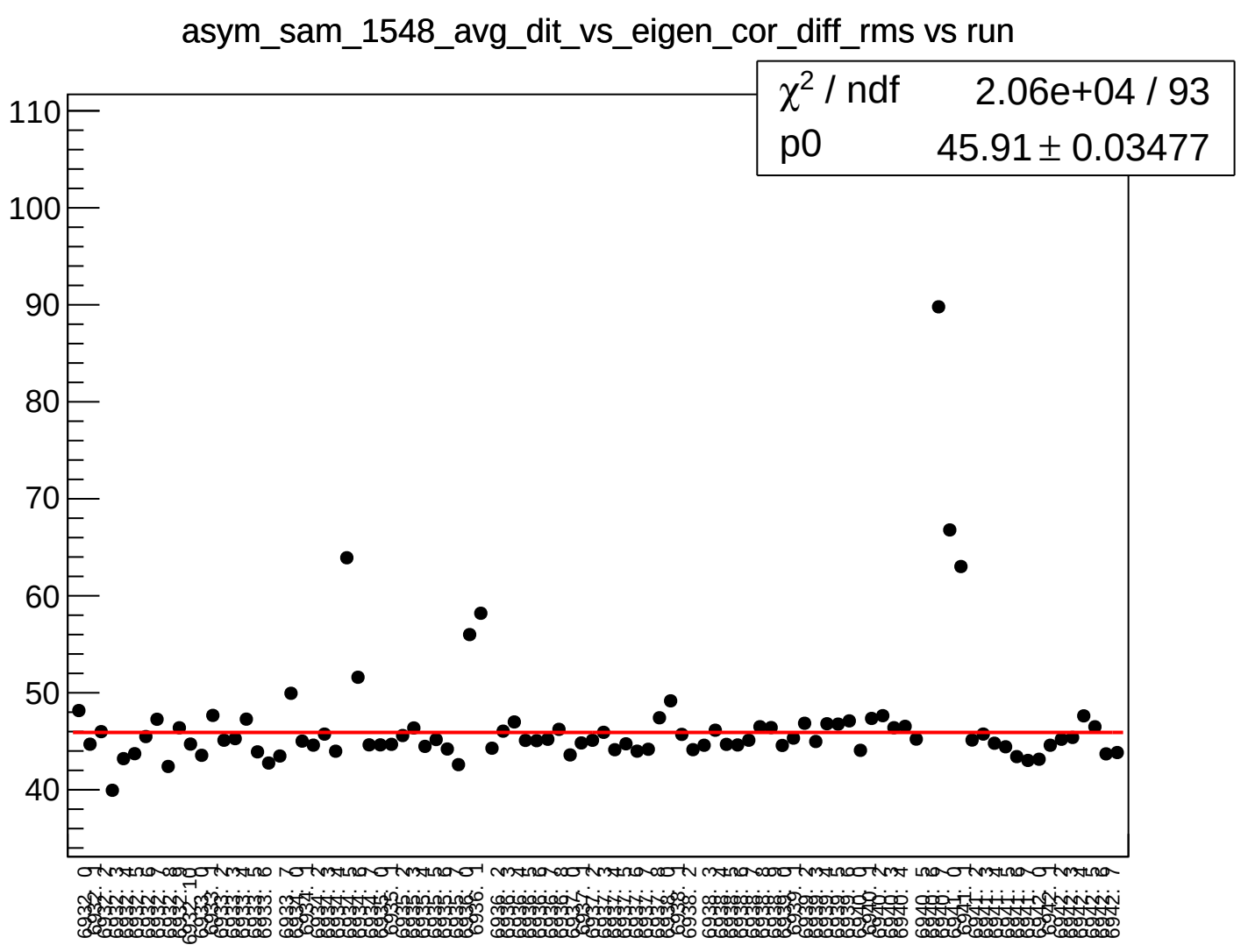

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.084e+06 / 93
p0 1.809e−11 ± 2.194e−14
0.1
0.08
0.06
0.04
0.02
0

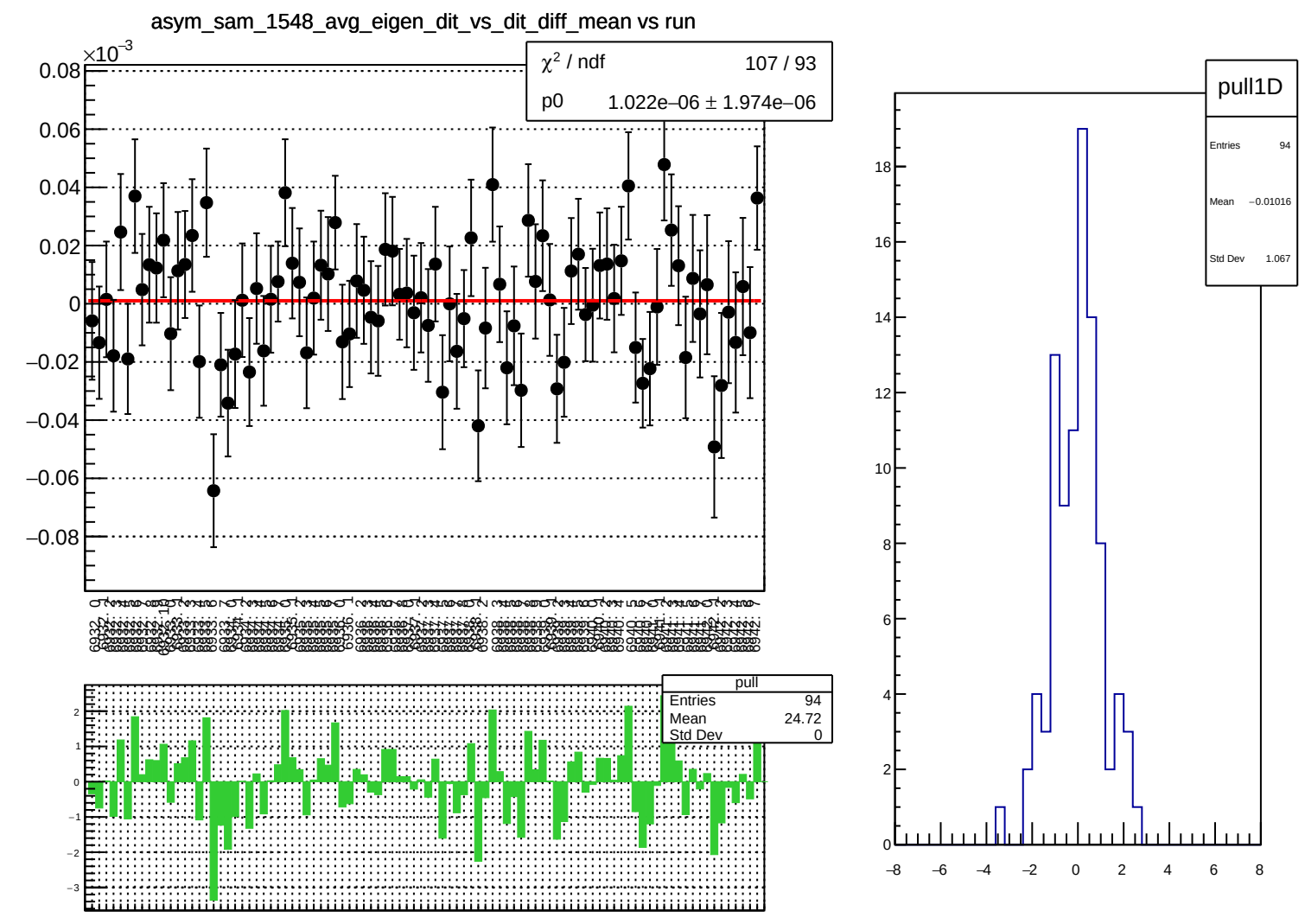

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 98.54 / 93
p0 0.02576 ± 0.04918
pull
Entries 94
Mean 60.82
Std Dev 0
pull1D
Entries 94
Mean −0.01242
Std Dev 1.024

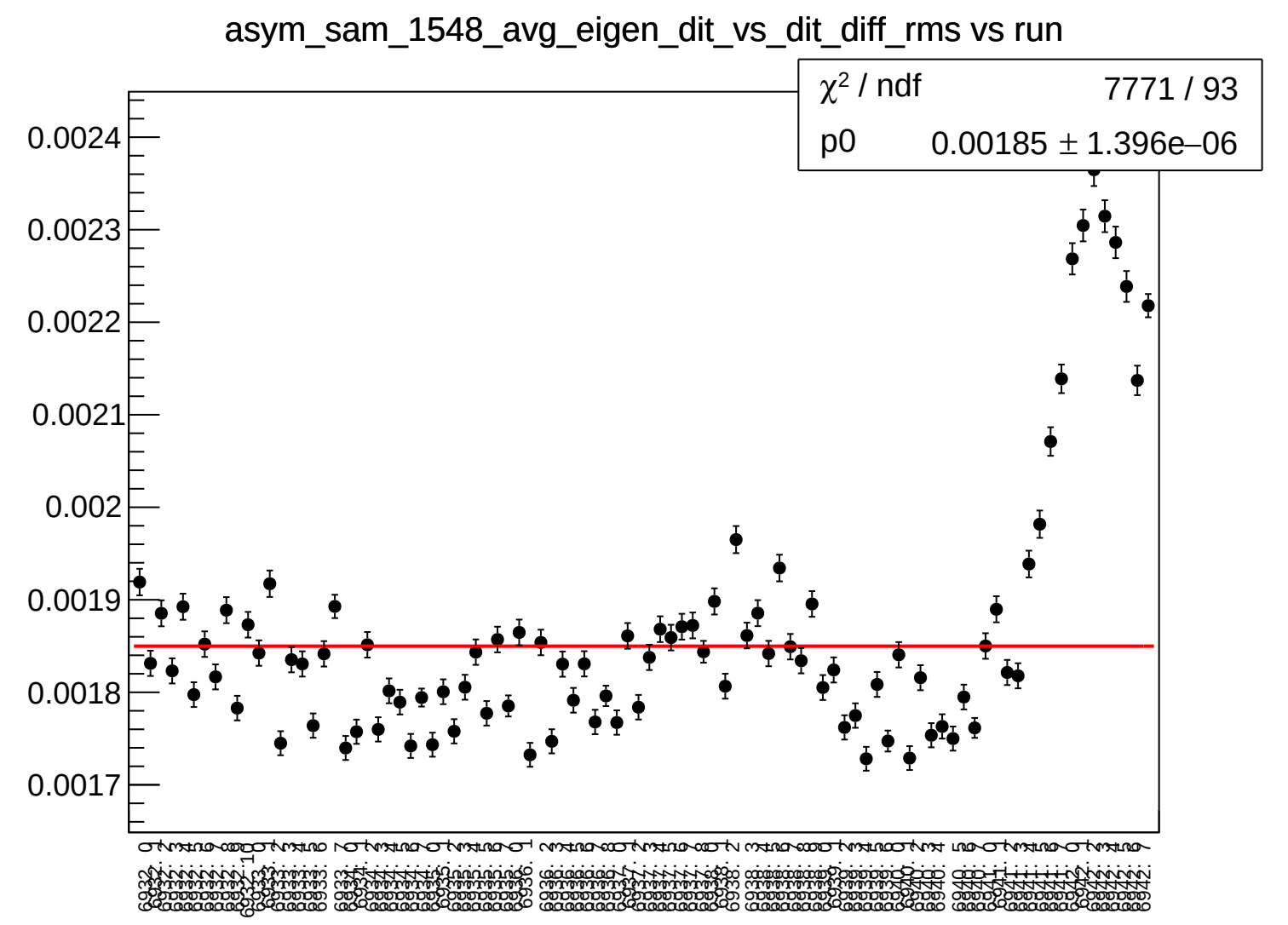

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.06e+04 / 93
p0 45.91 ± 0.03477
110
100
90
80
70
60
50
40

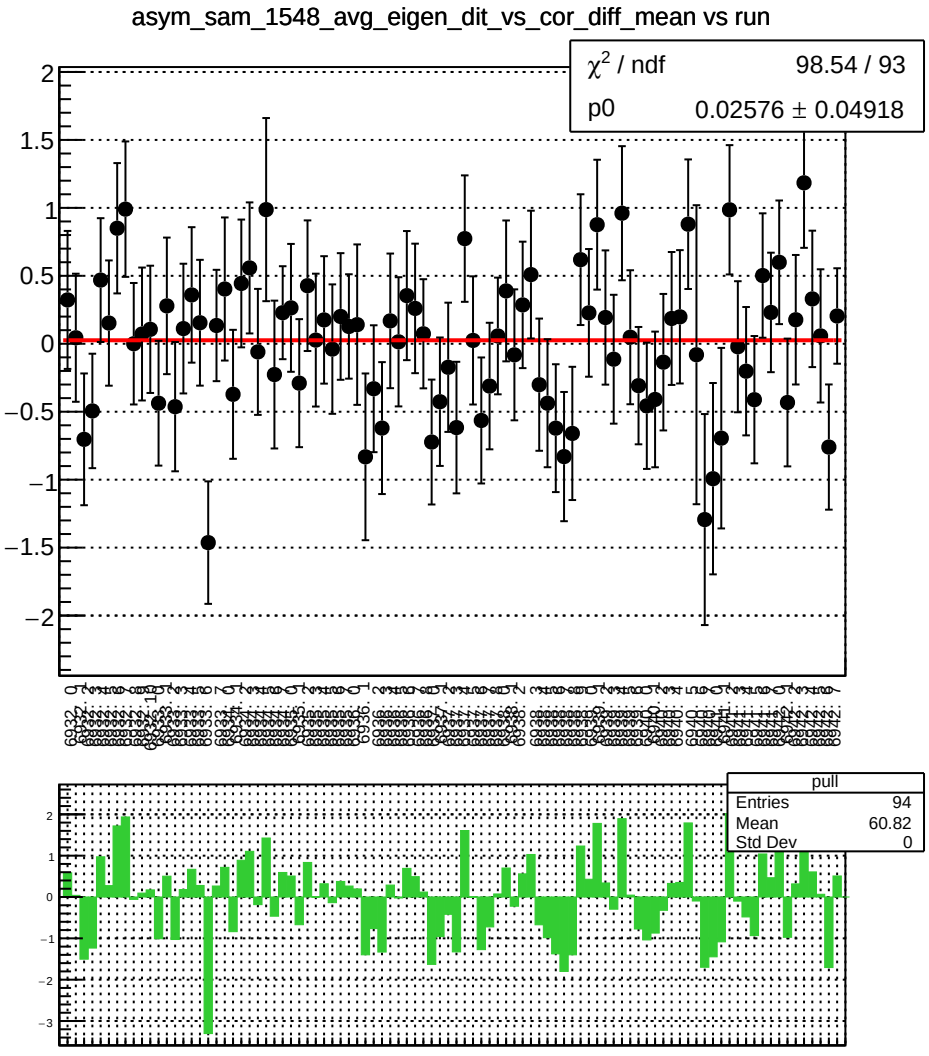

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.54 / 93
p0 0.02576 ± 0.04918
pull
Entries 94
Mean 60.82
Std Dev 0

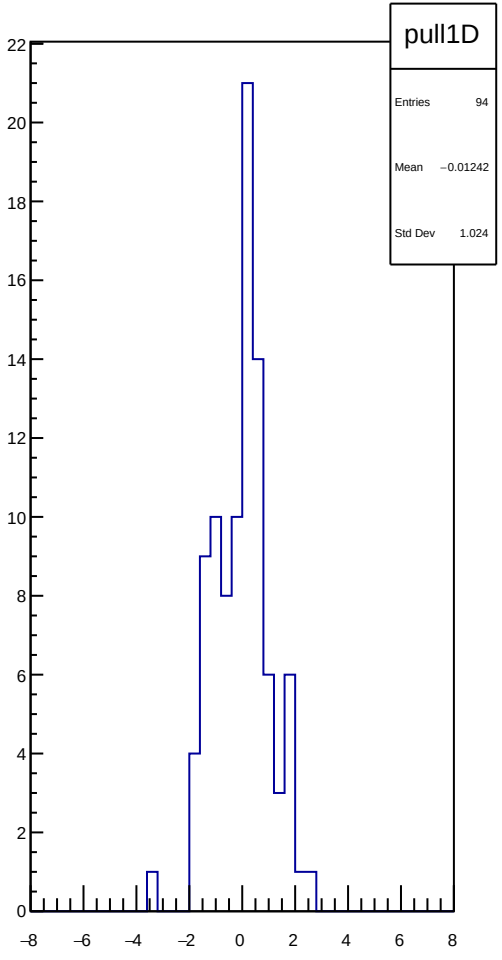

pull1D
Entries 94
Mean −0.01242
Std Dev 1.024

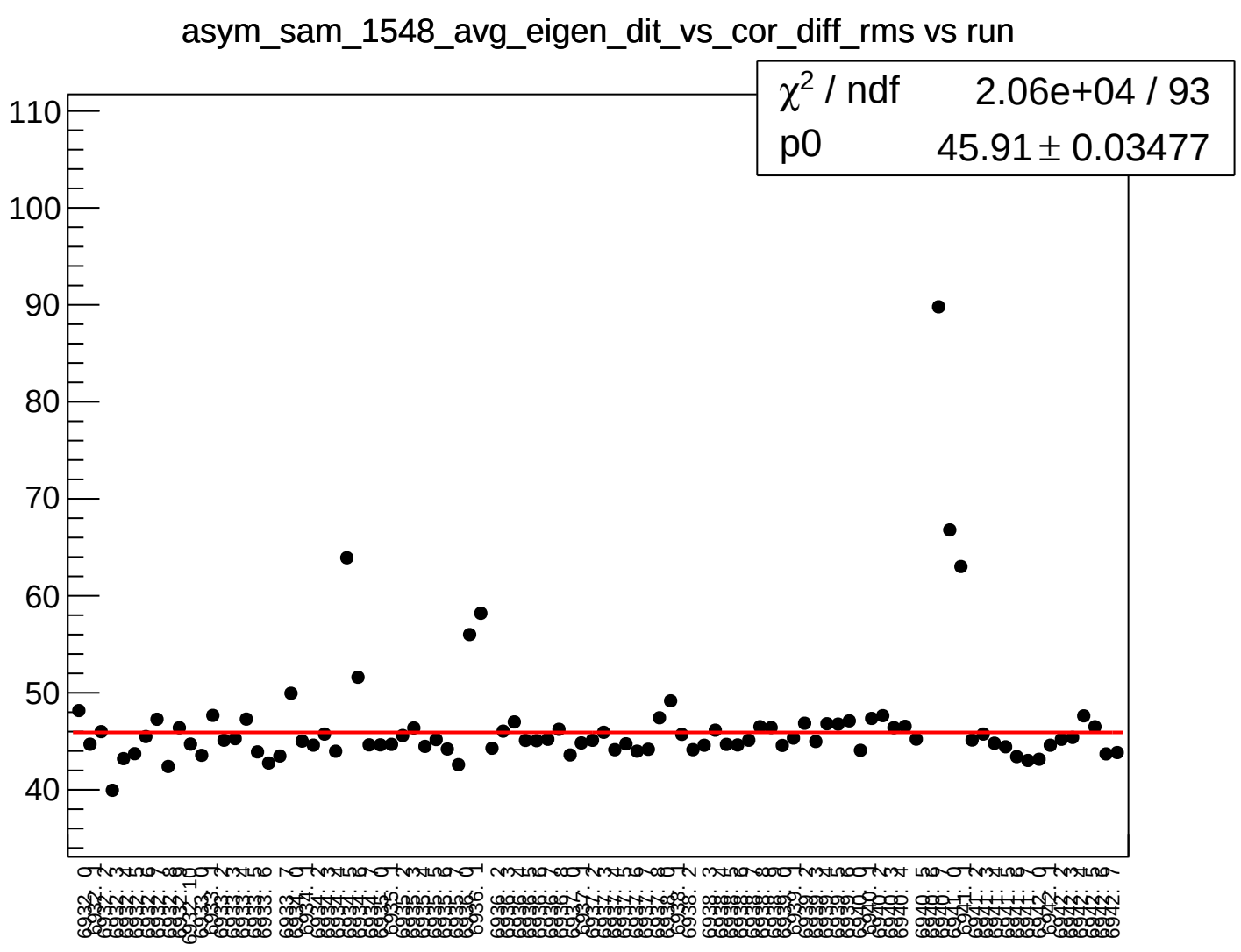

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.06e+04 / 93
p0 45.91 ± 0.03477
110
100
90
80
70
60
50
40

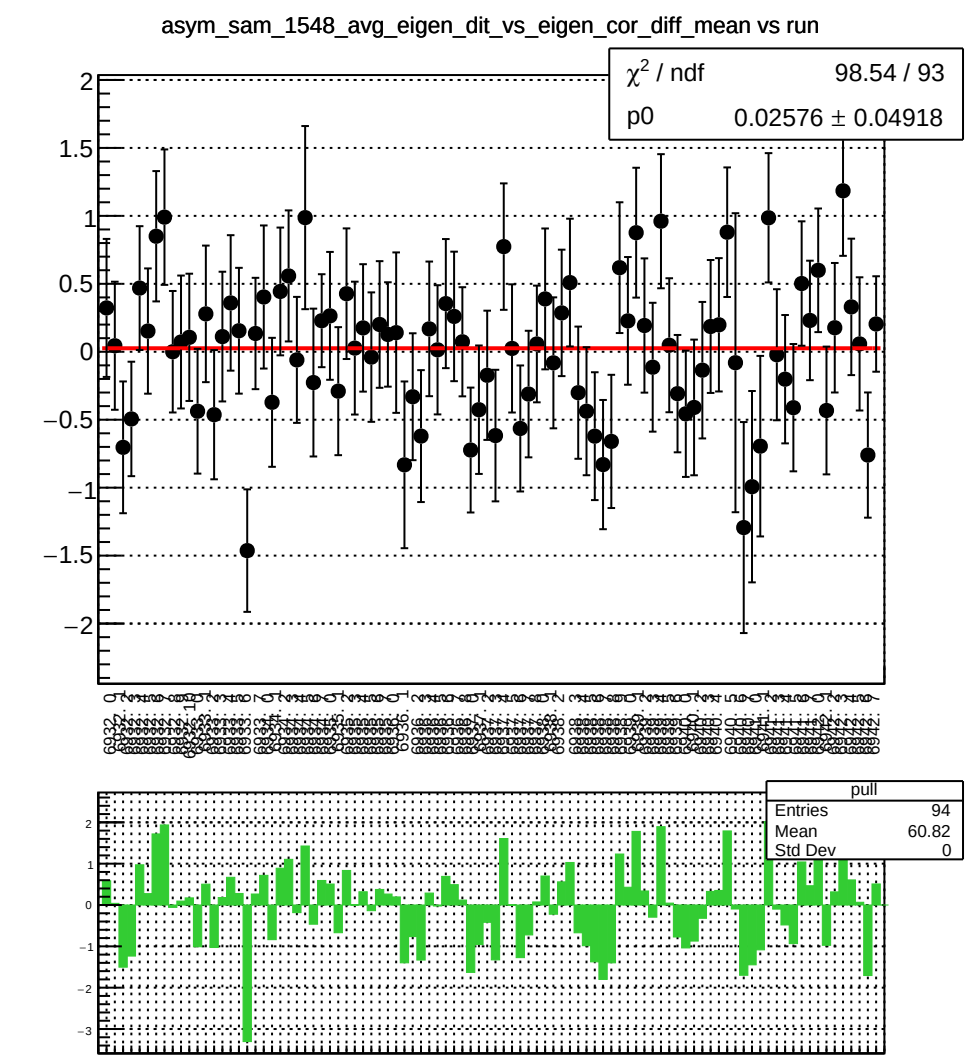

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107 / 93
p0 1.022e−06 ± 1.974e−06
pull
Entries 94
Mean 24.72
Std Dev 0
pull1D
Entries 94
Mean −0.01016
Std Dev 1.067

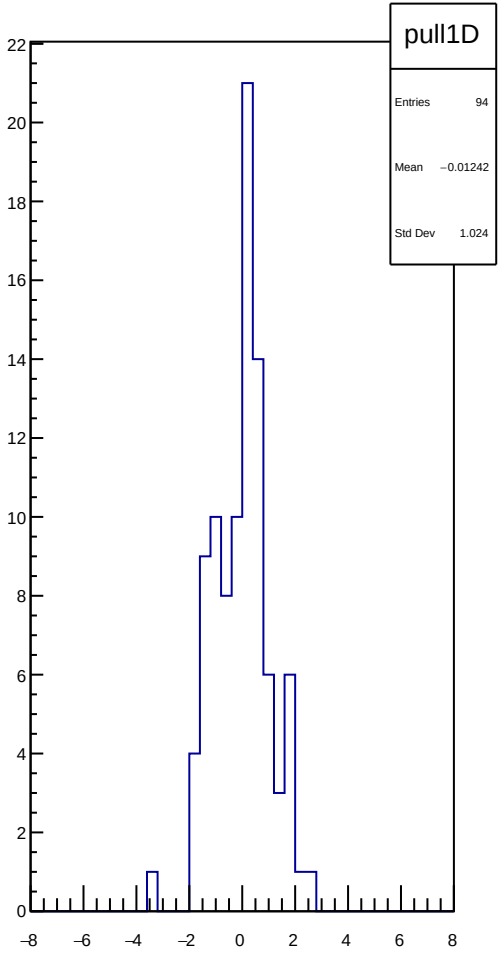

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7771 / 93
p0 0.00185 ± 1.396e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

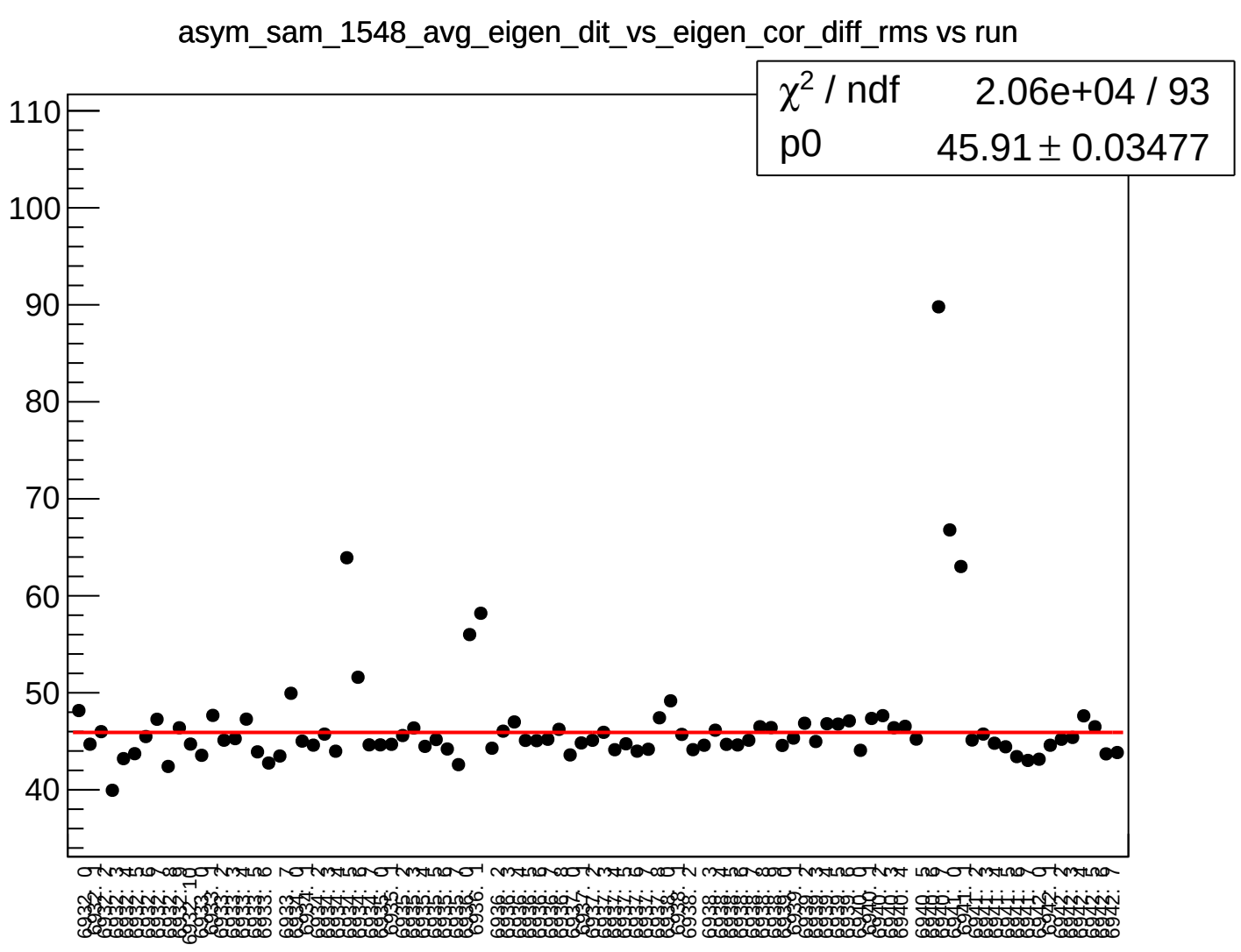

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.54 / 93
p0 0.02576 ± 0.04918
pull
Entries 94
Mean 60.82
Std Dev 0

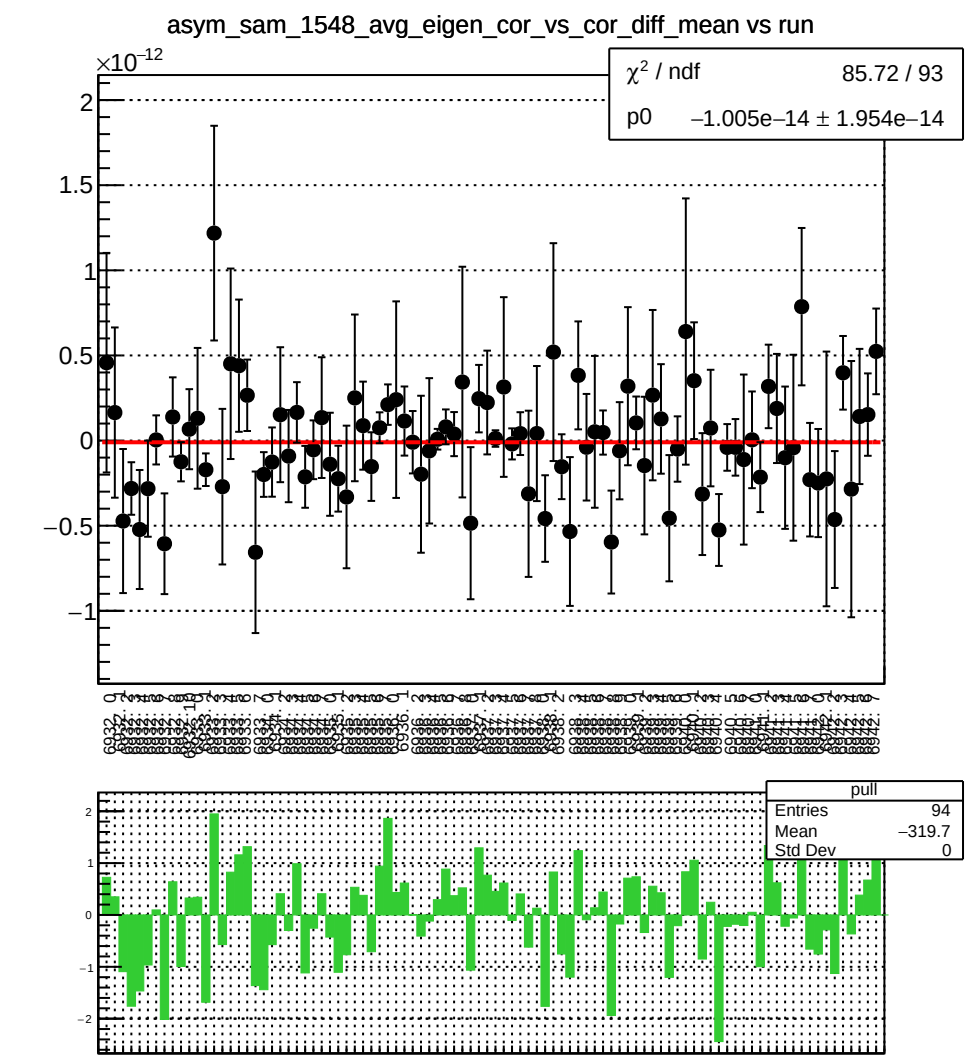

pull1D
Entries 94
Mean −0.01242
Std Dev 1.024

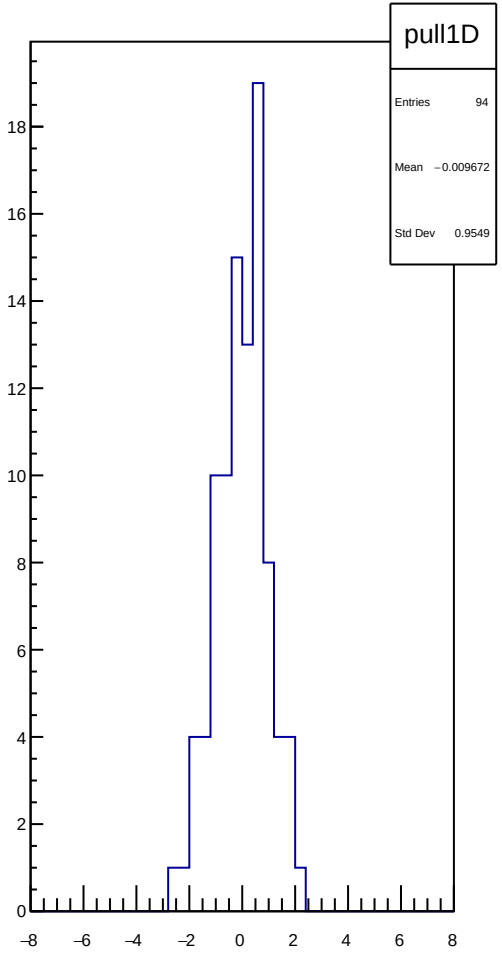

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.06e+04 / 93
p0 45.91 ± 0.03477
110
100
90
80
70
60
50
40

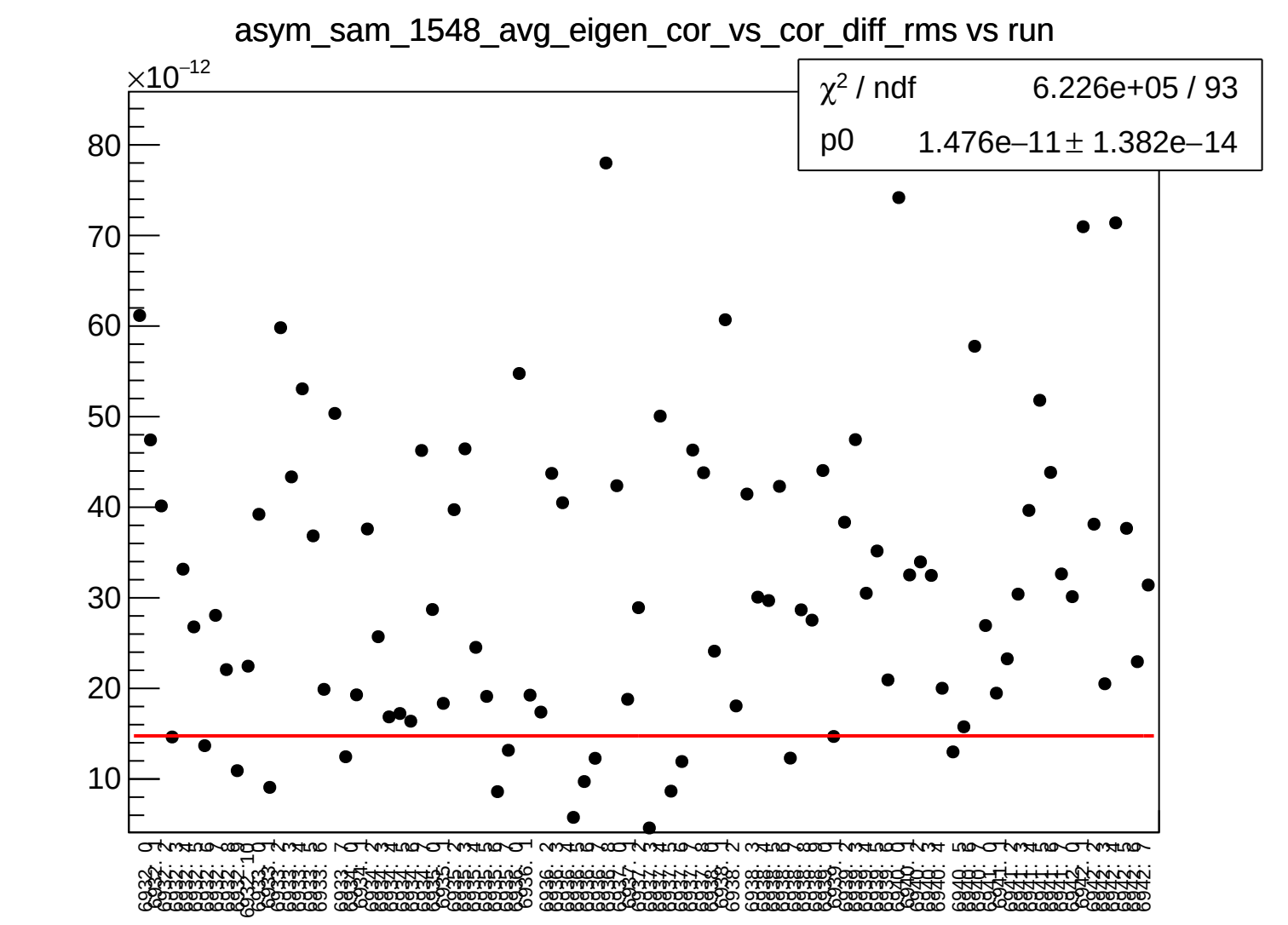

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.54 / 93
p0 0.02576 ± 0.04918
pull
Entries 94
Mean 60.82
Std Dev 0

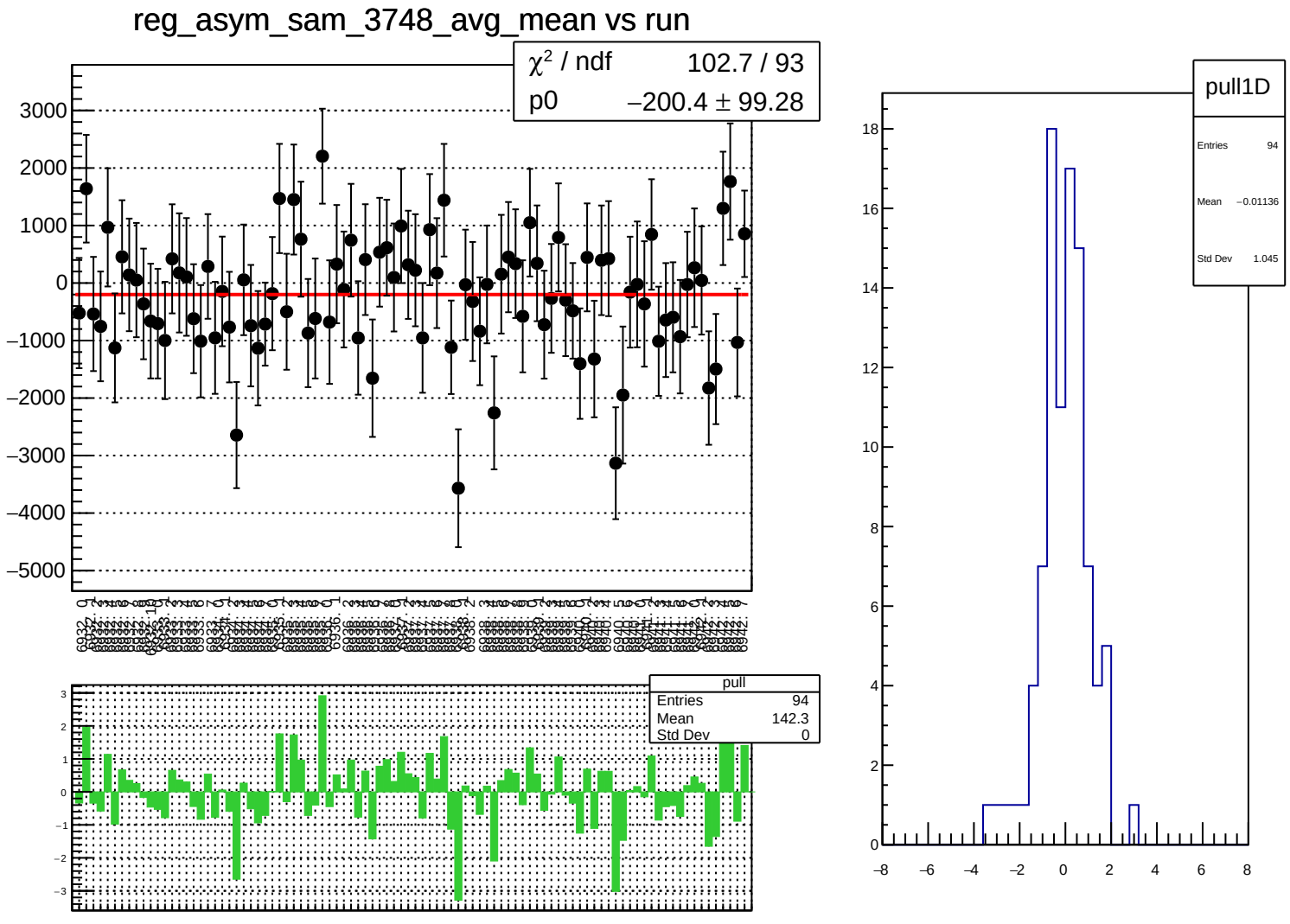

pull1D
Entries 94
Mean −0.01242
Std Dev 1.024

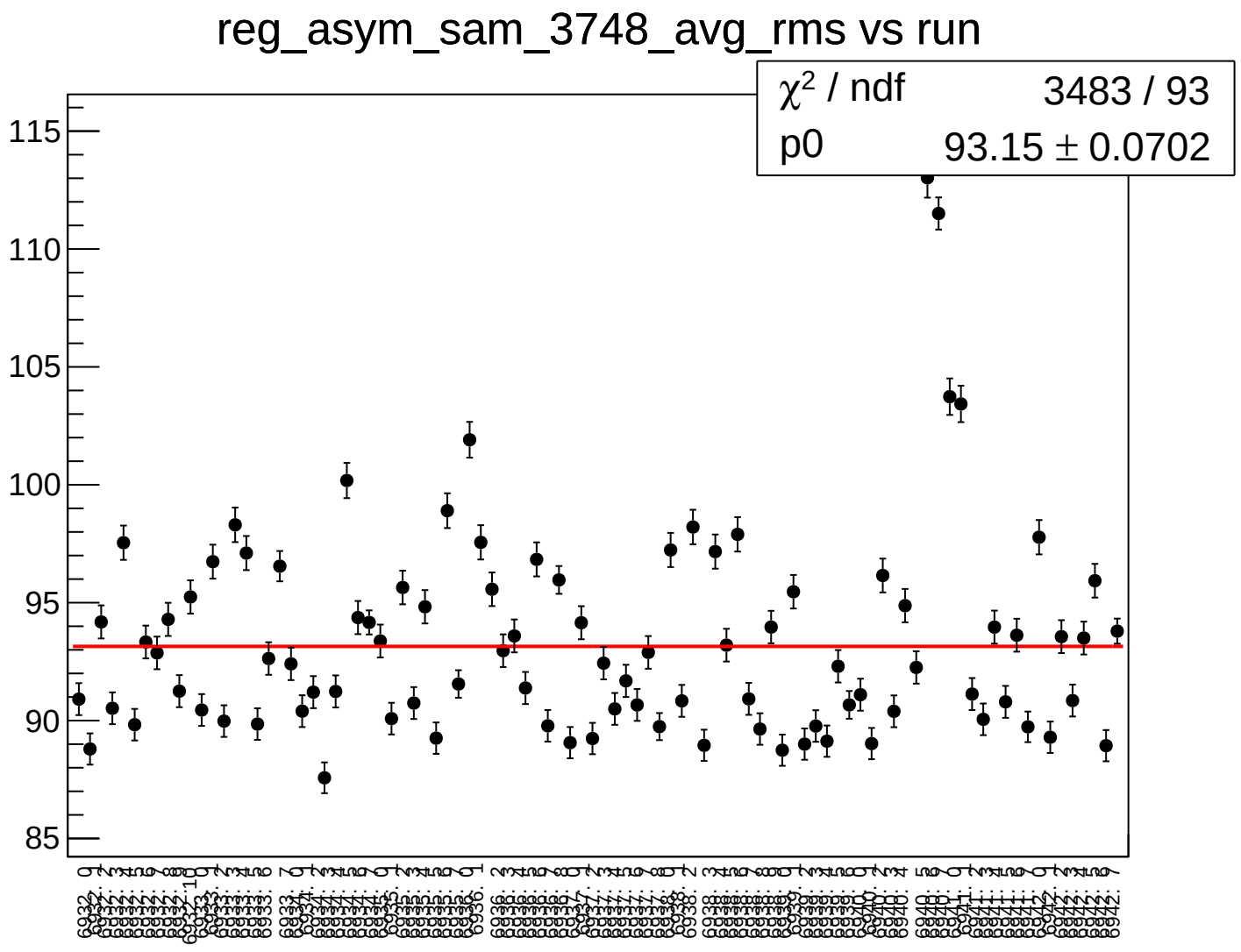

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.06e+04 / 93
p0 45.91 ± 0.03477
110
100
90
80
70
60
50
40

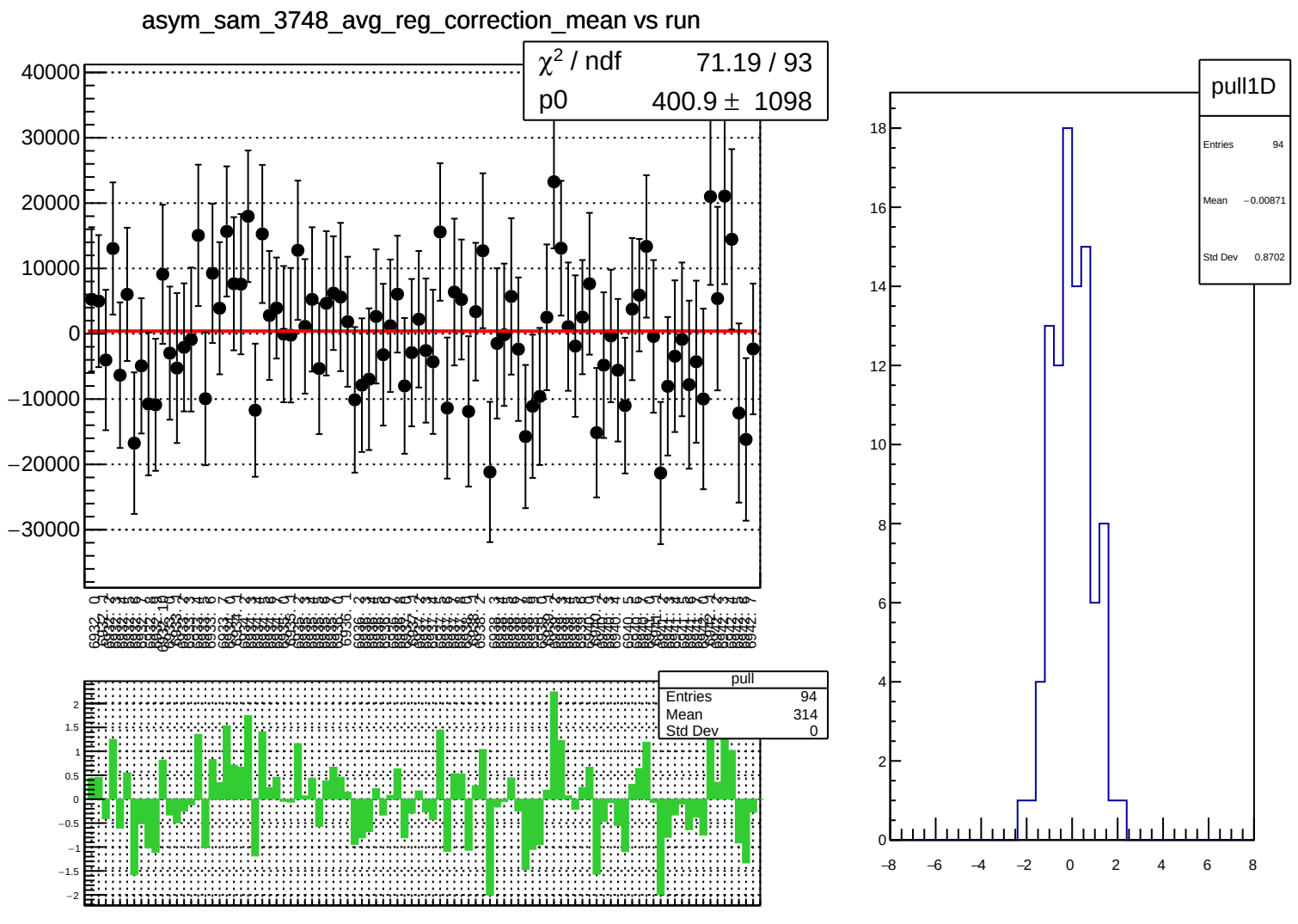

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.72 / 93
p0 −1.005e−14 ± 1.954e−14
pull
Entries 94
Mean −319.7
Std Dev 0

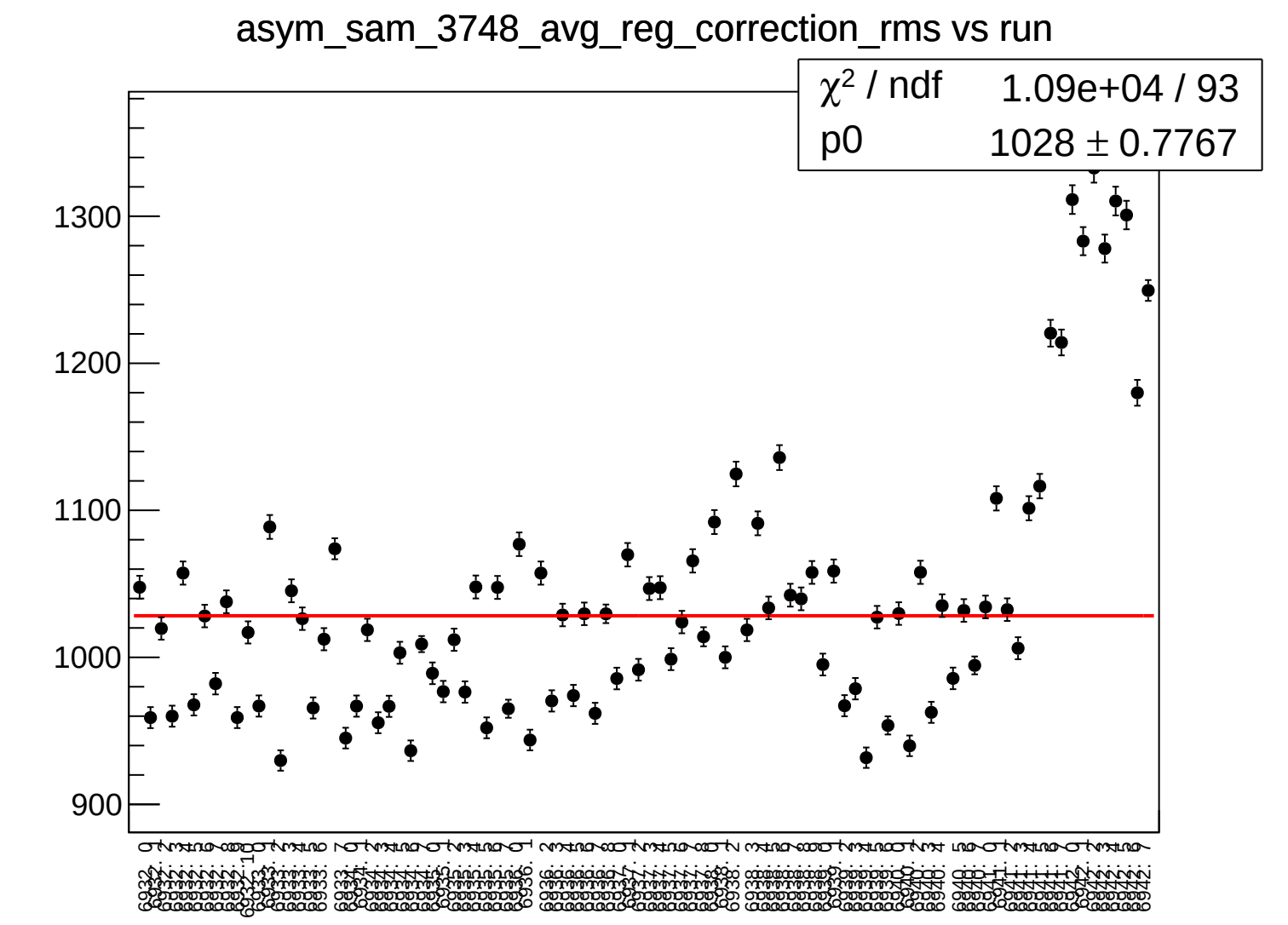

pull1D
Entries 94
Mean −0.009672
Std Dev 0.9549

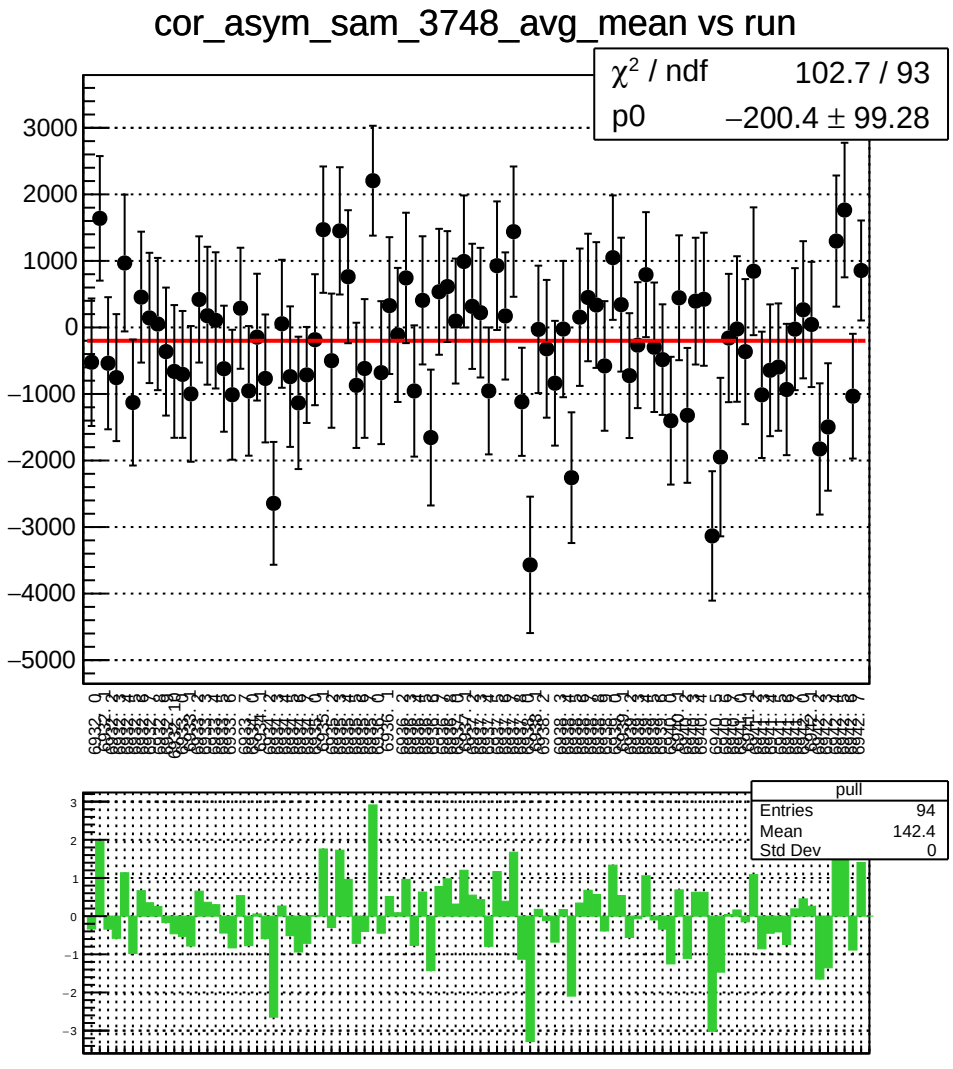

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.226e+05 / 93
p0 1.476e−11 ± 1.382e−14
80
70
60
50
40
30
20
10

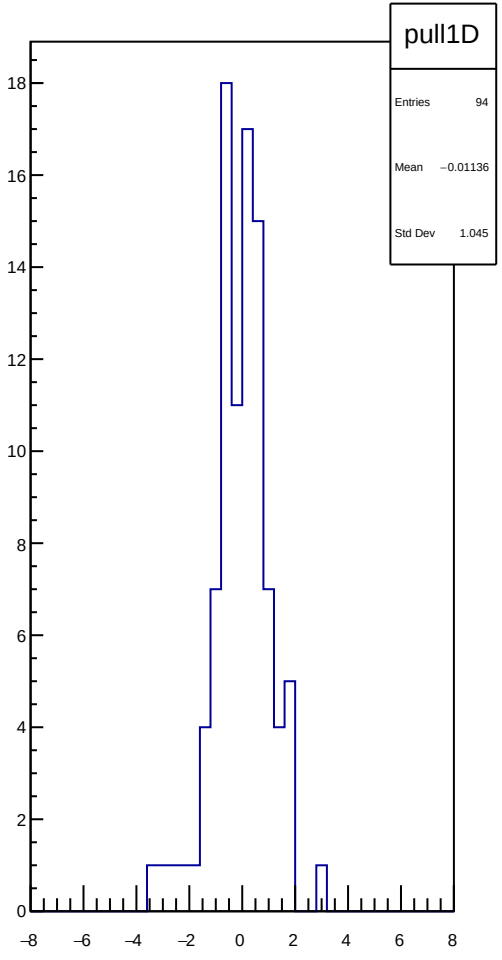

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 102.7 / 93
p0 −200.4 ± 99.28
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 94
Mean 142.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01136
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

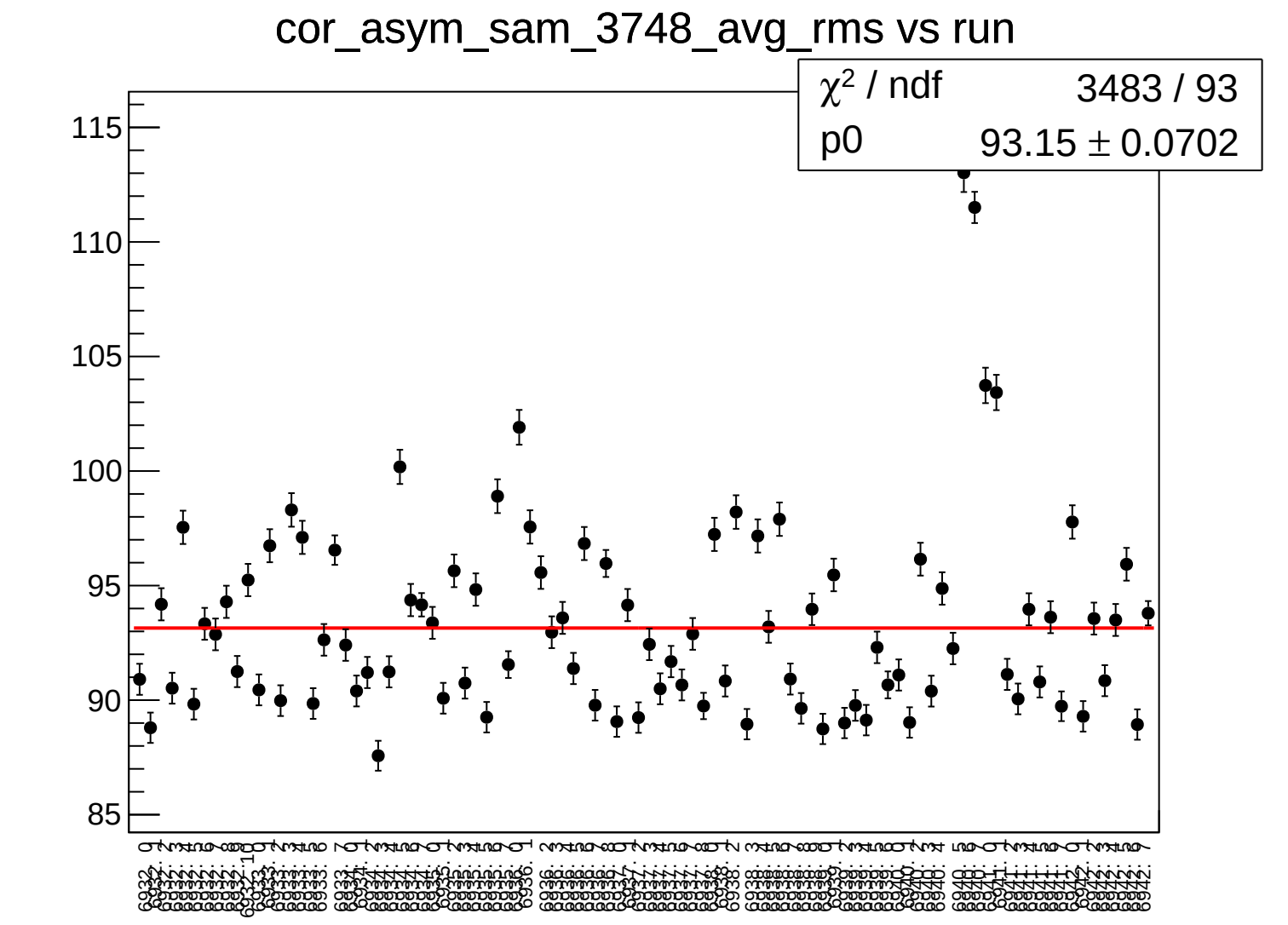

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3483 / 93
p0 93.15 ± 0.0702
115
110
105
100
95
90
85

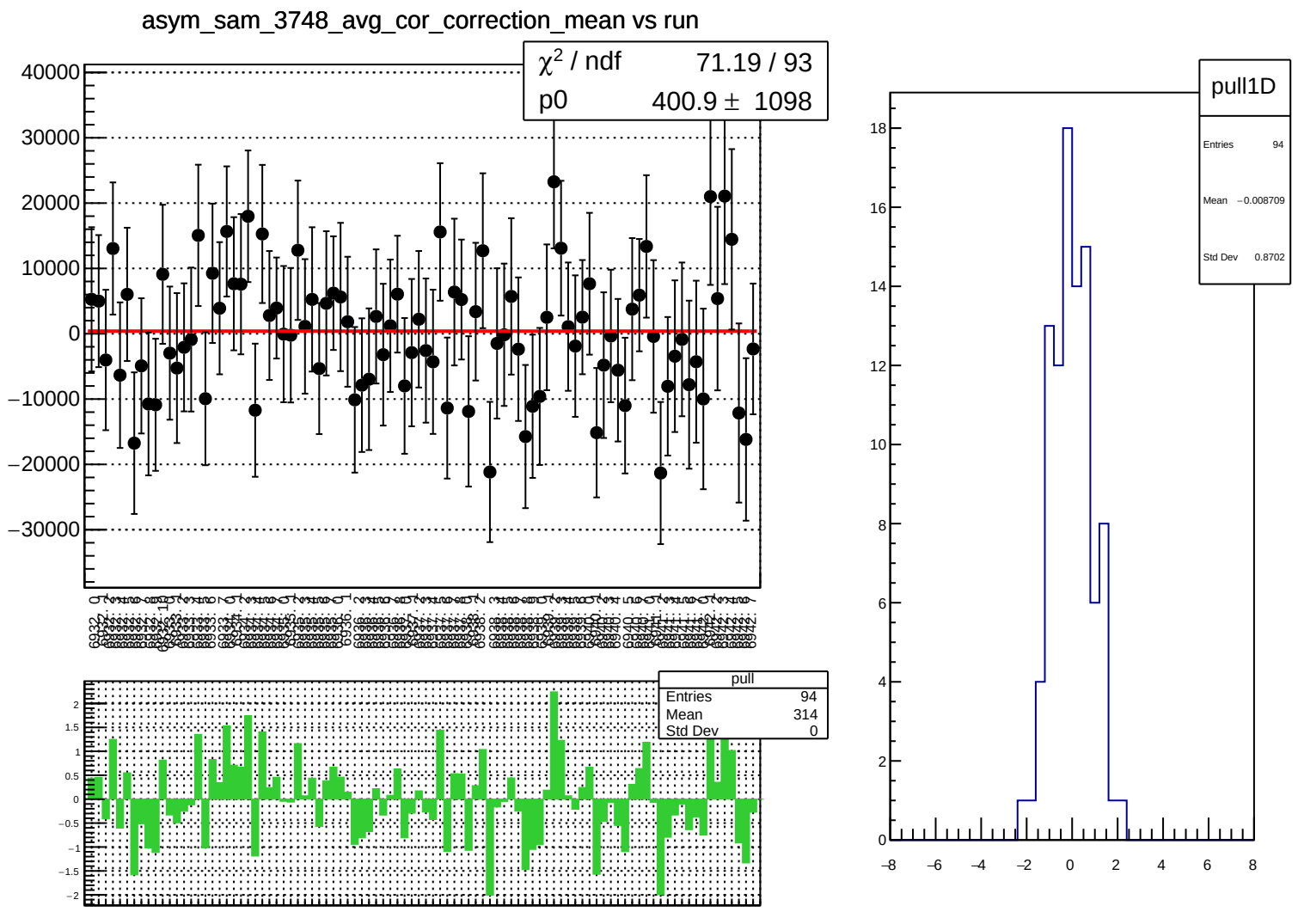

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 71.19 / 93
p0 400.9 ± 1098
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.00871
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

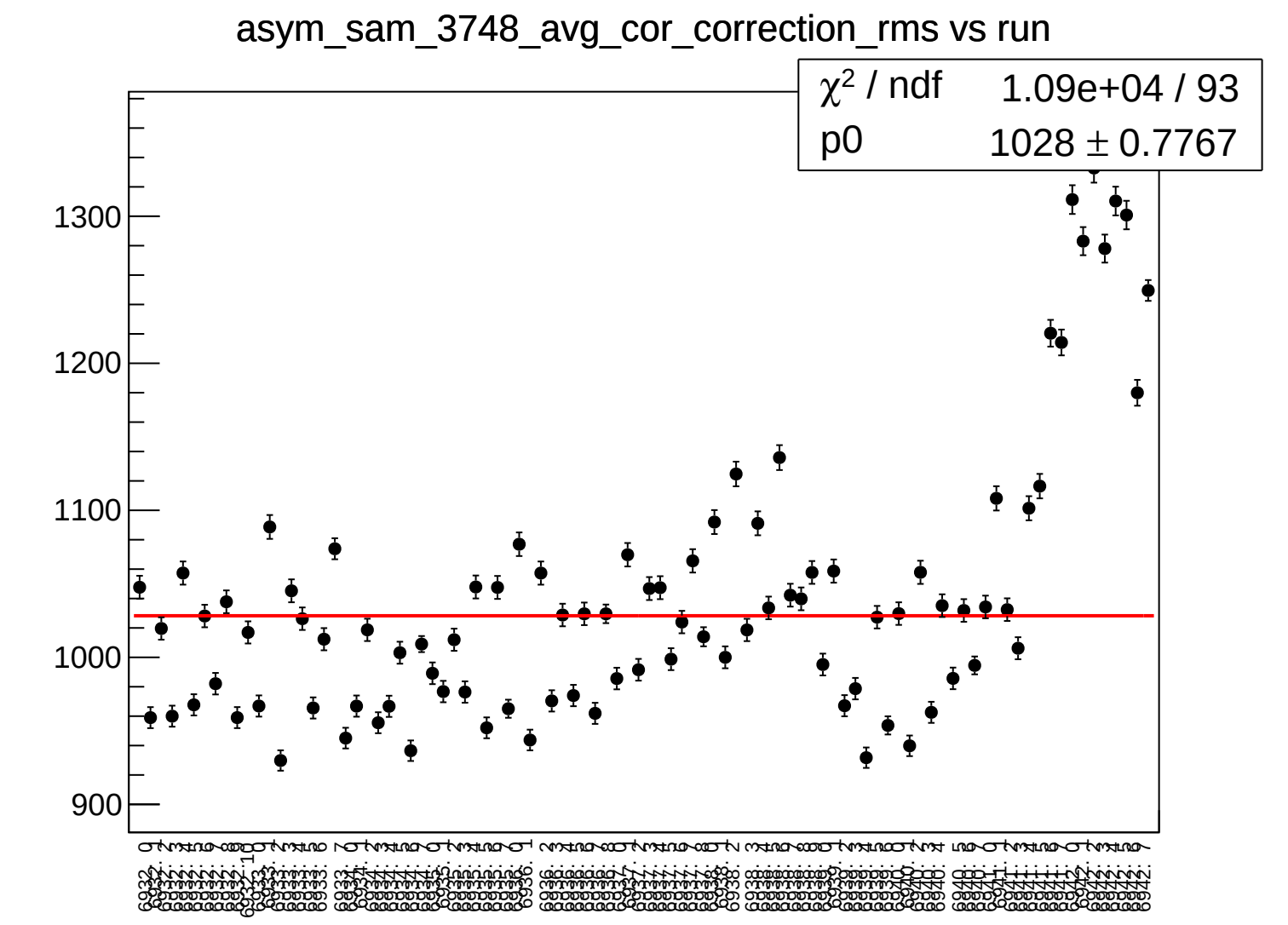

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.09e+04 / 93
p0 1028 ± 0.7767
1300
1200
1100
1000
900

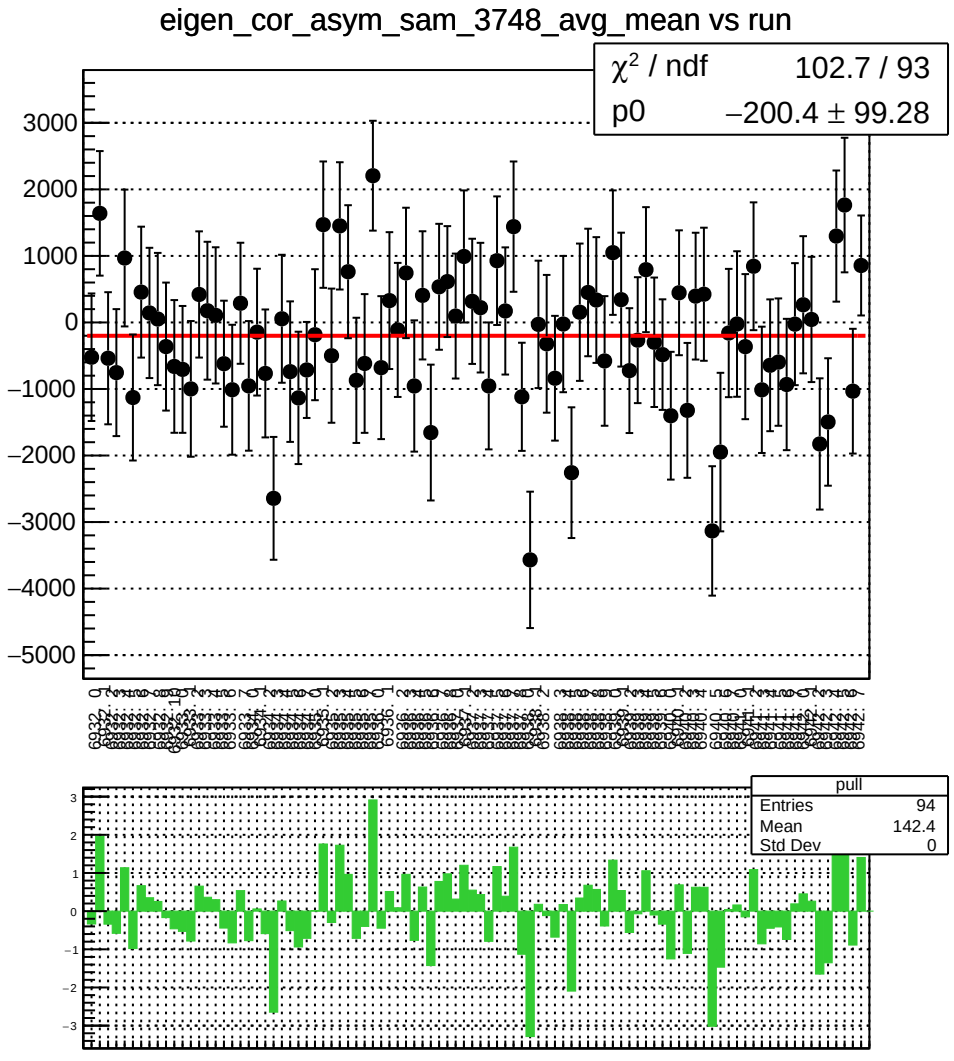

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 102.7 / 93
p0 −200.4 ± 99.28
pull
Entries 94
Mean 142.4
Std Dev 0

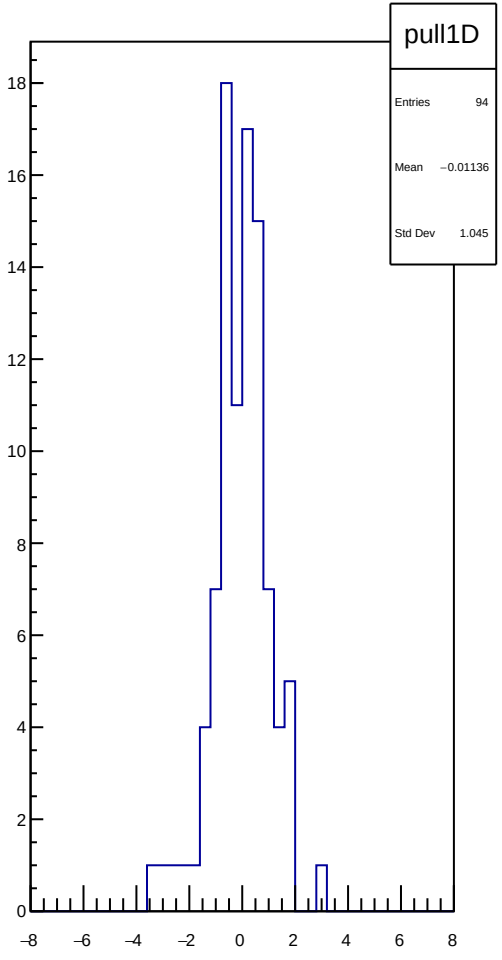

pull1D
Entries 94
Mean −0.01136
Std Dev 1.045

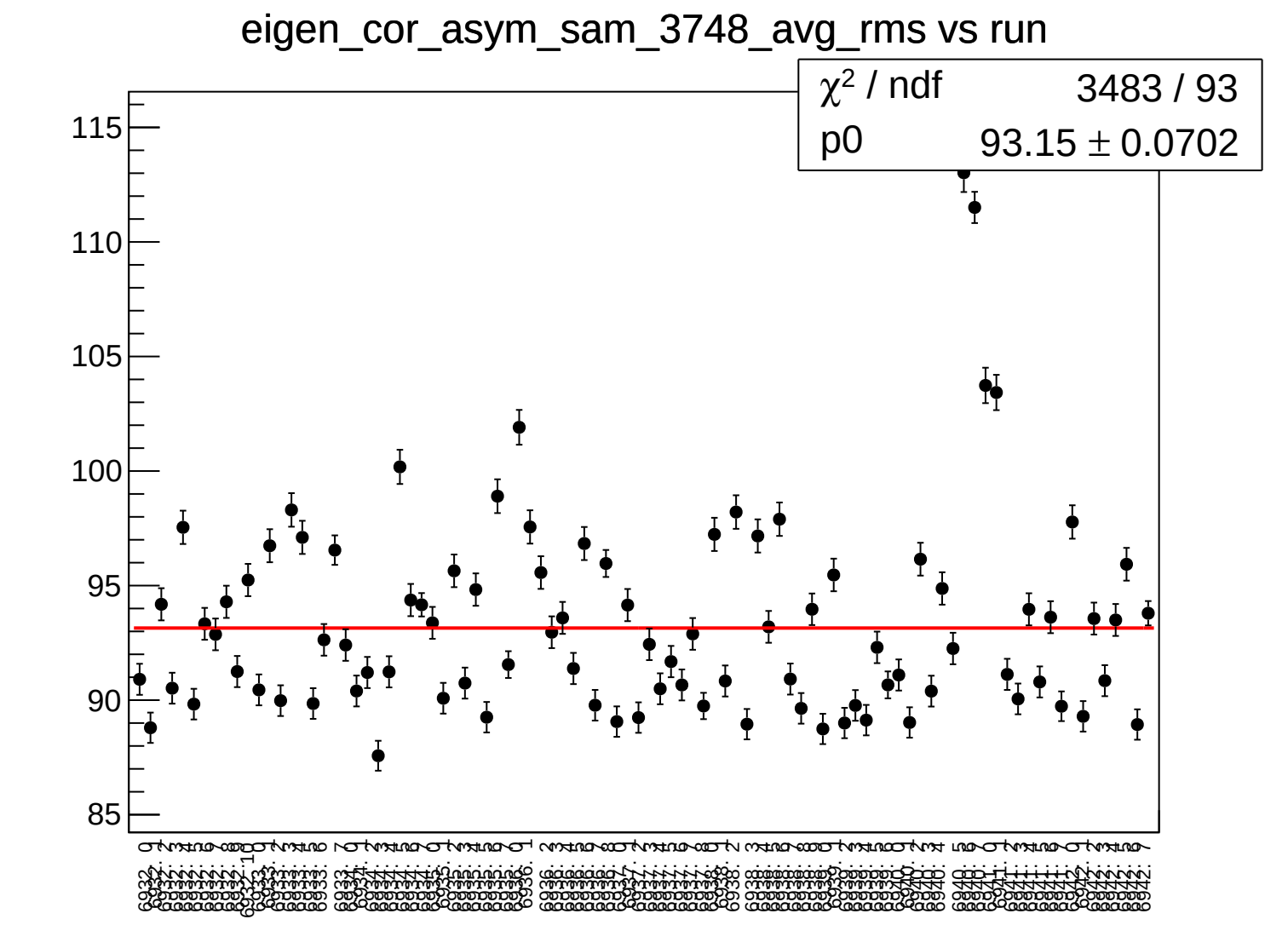

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3483 / 93
p0 93.15 ± 0.0702
115
110
105
100
95
90
85

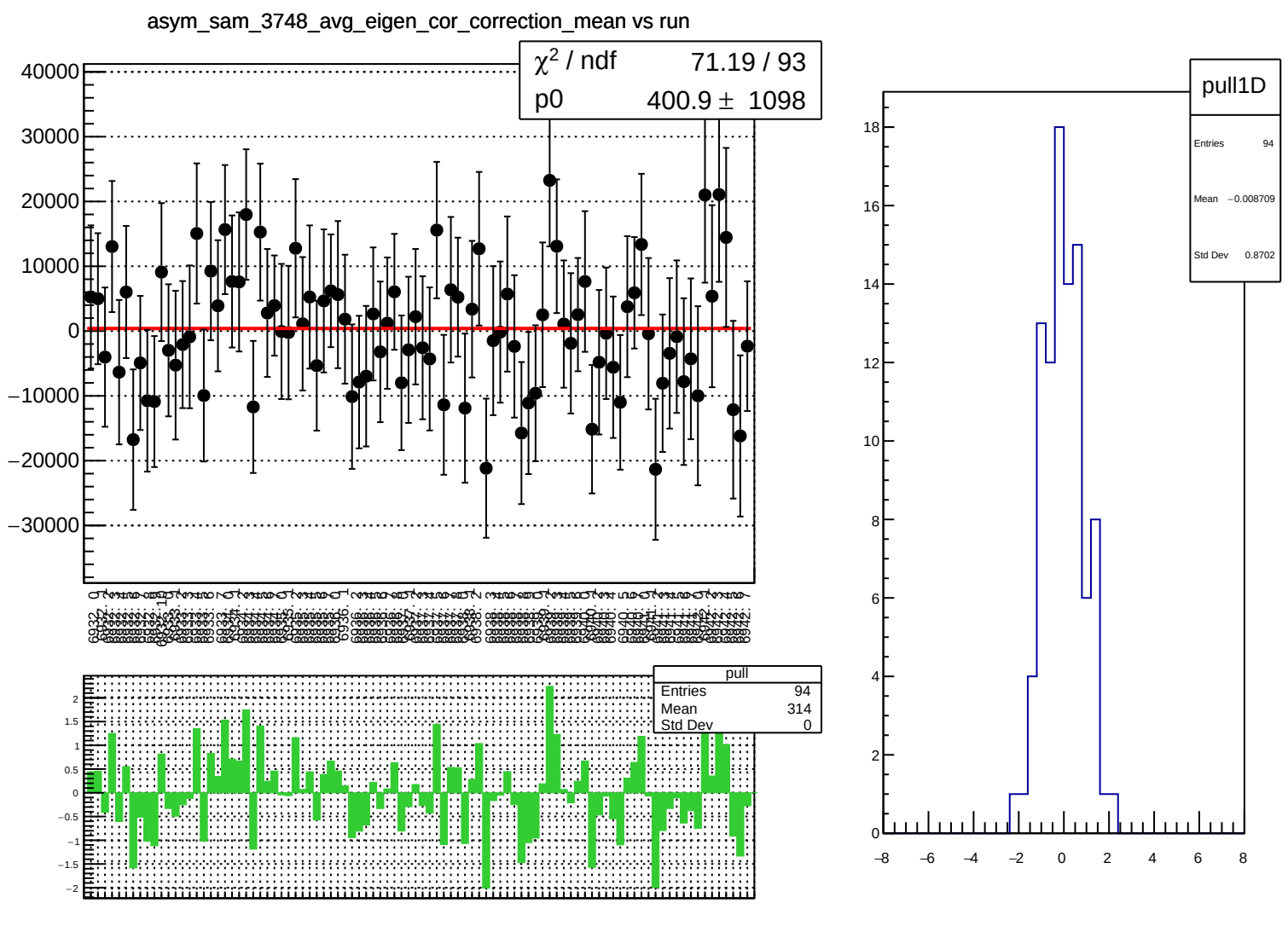

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 71.19 / 93
p0 400.9 ± 1098
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 314
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008709
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

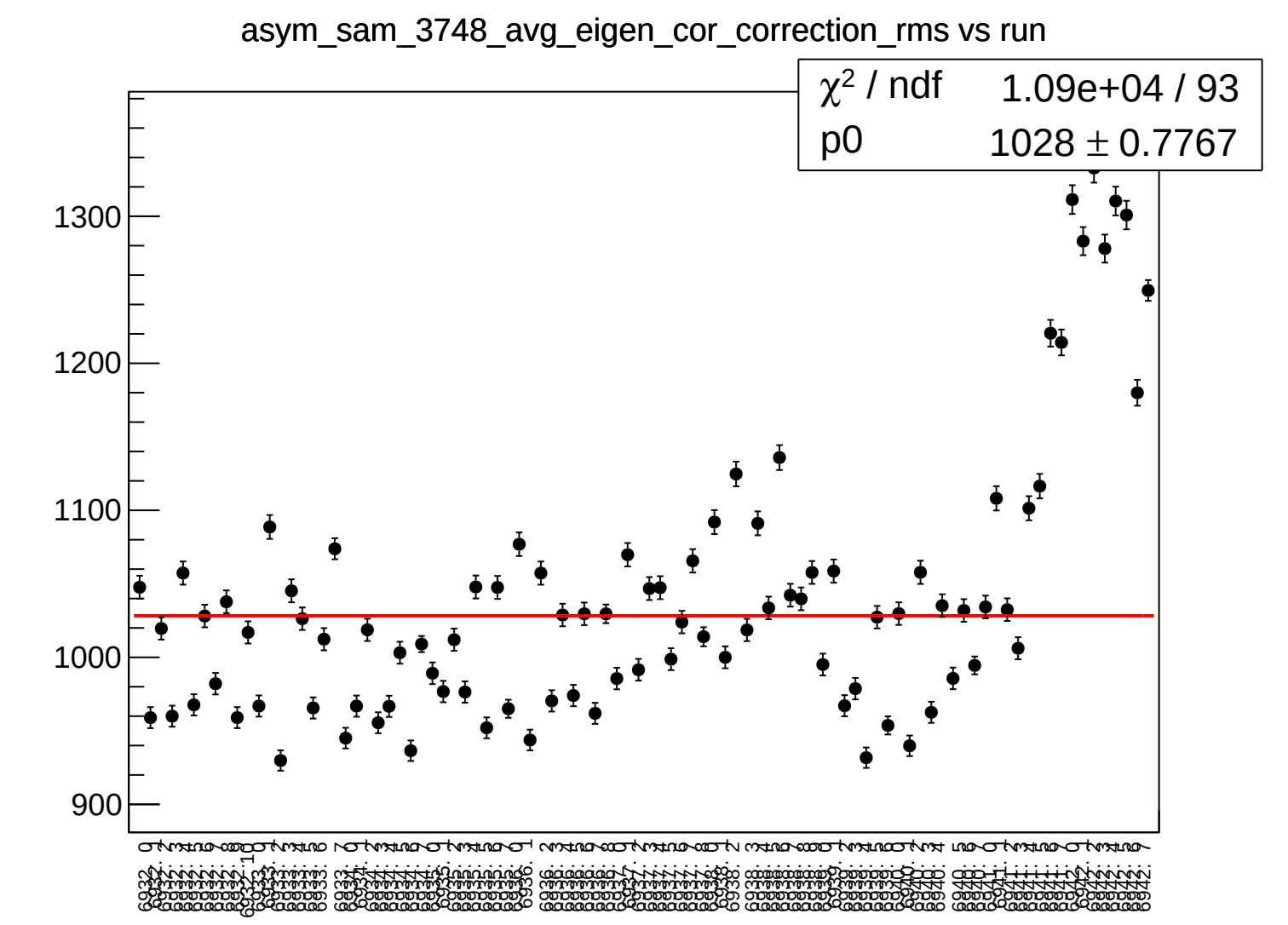

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.09e+04 / 93
p0 1028 ± 0.7767
1300
1200
1100
1000
900

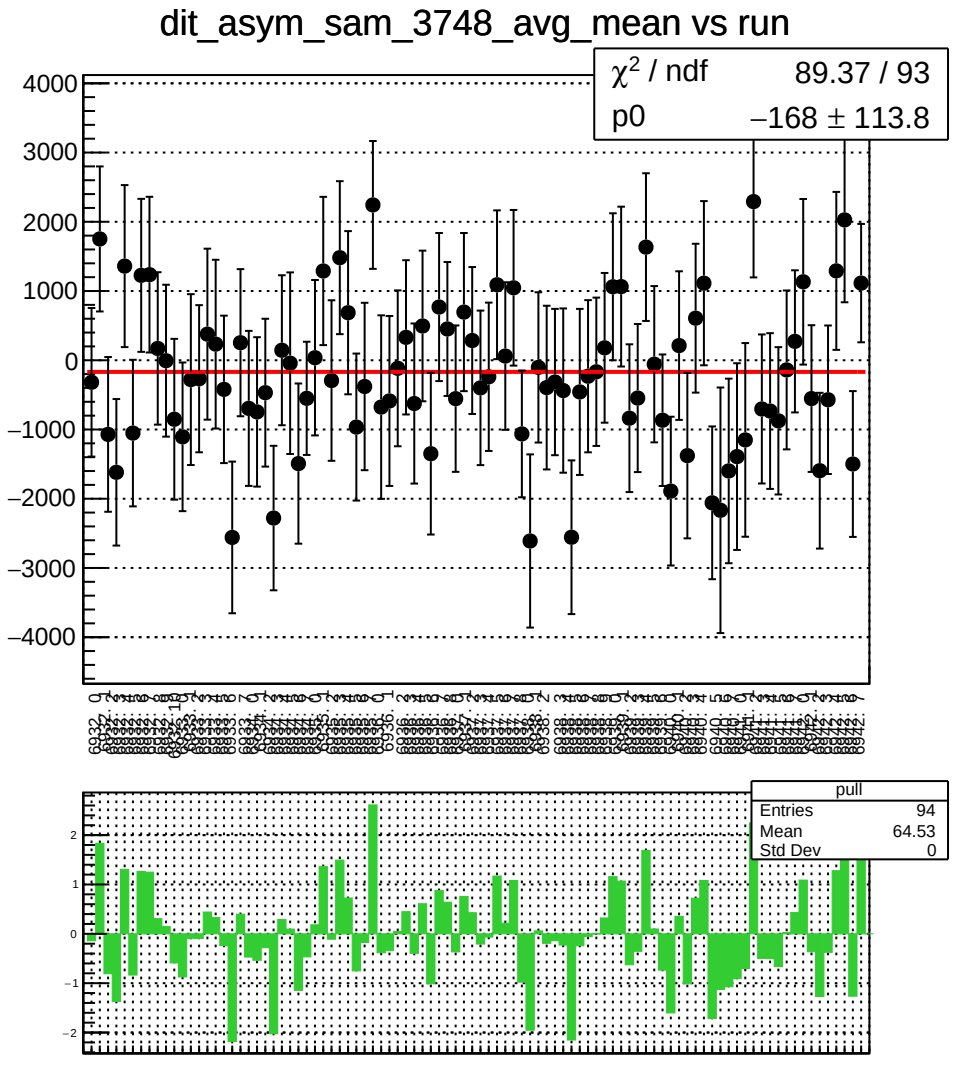

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 102.7 / 93
p0 −200.4 ± 99.28
pull
Entries 94
Mean 142.4
Std Dev 0

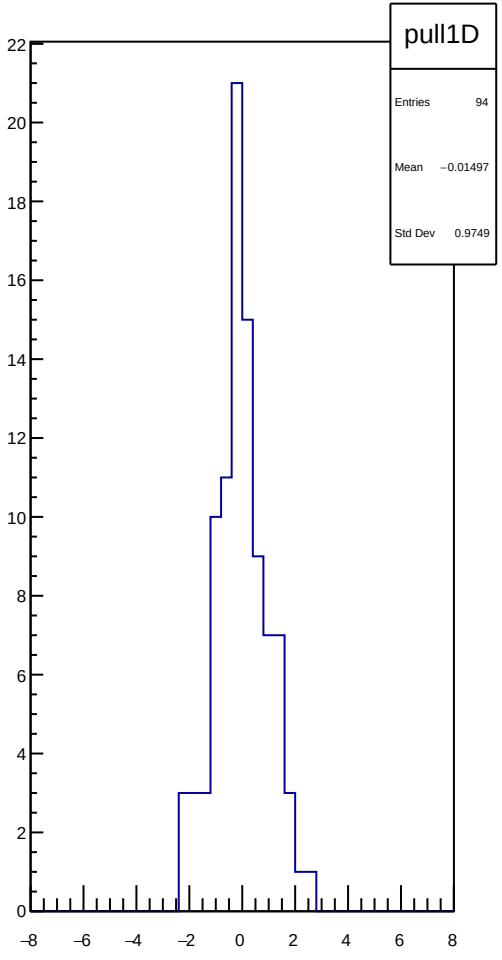

pull1D
Entries 94
Mean −0.01136
Std Dev 1.045

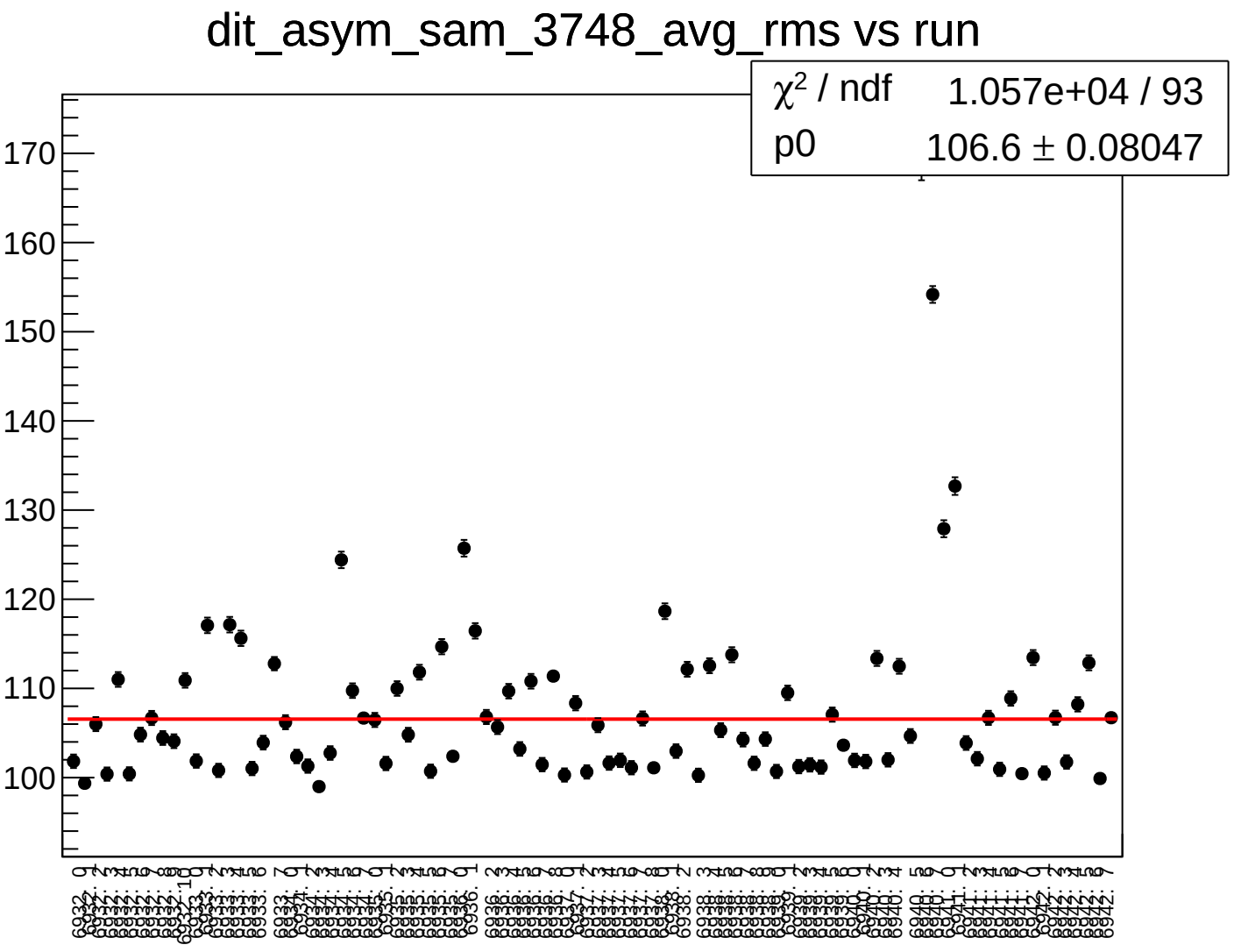

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3483 / 93
p0 93.15 ± 0.0702
115
110
105
100
95
90
85

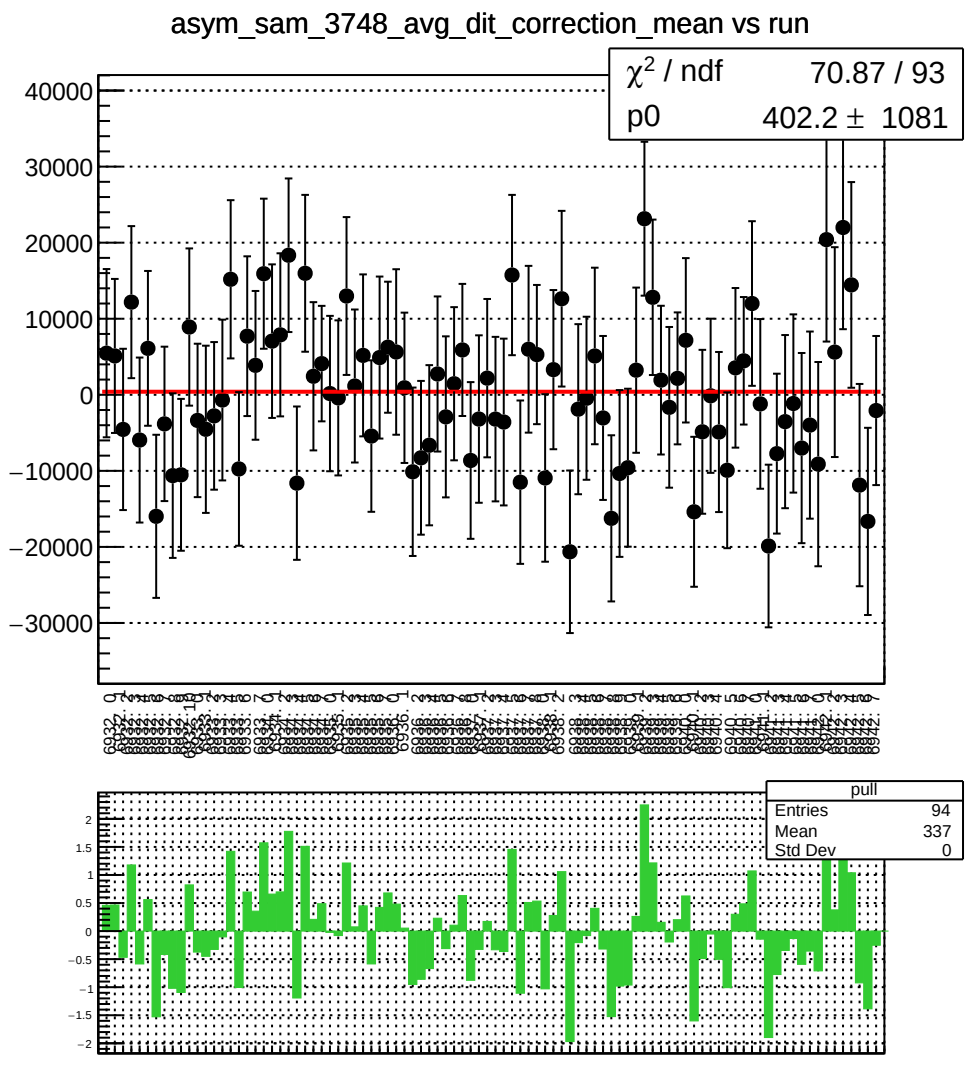

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.19 / 93
p0 400.9 ± 1098
pull
Entries 94
Mean 314
Std Dev 0
pull1D
Entries 94
Mean −0.008709
Std Dev 0.8702

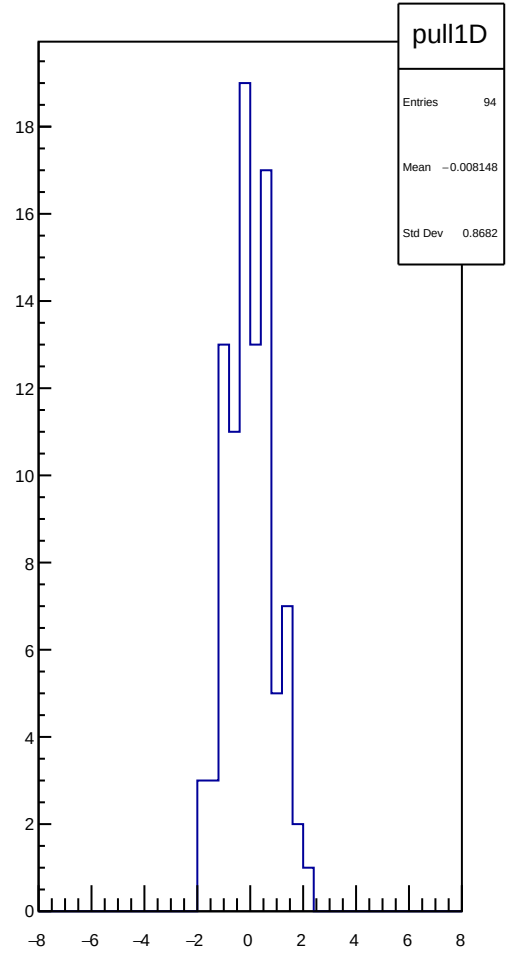

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.09e+04 / 93
p0 1028 ± 0.7767
1300
1200
1100
1000
900

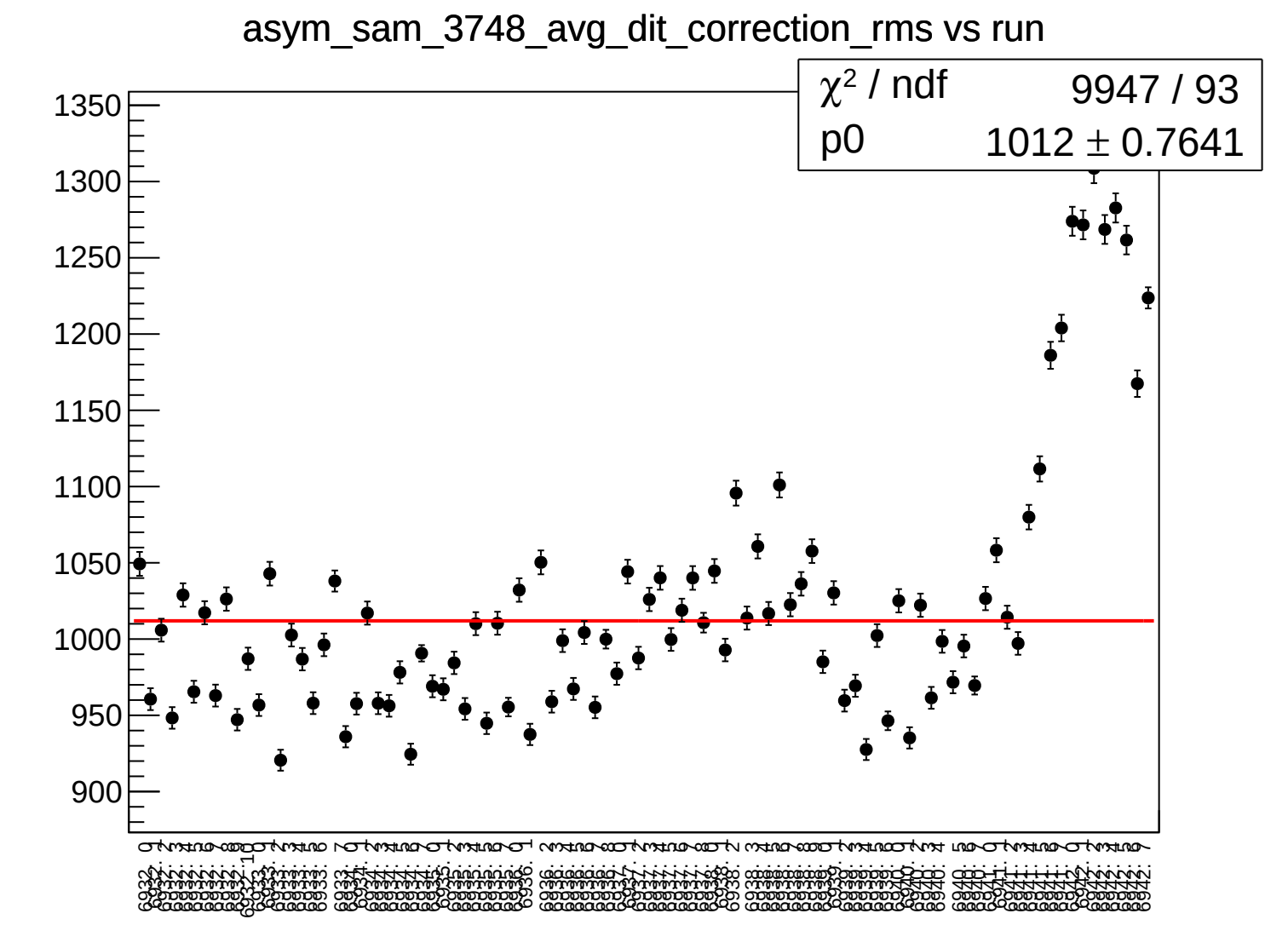

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 89.37 / 93
p0 −168 ± 113.8
pull
Entries 94
Mean 64.53
Std Dev 0

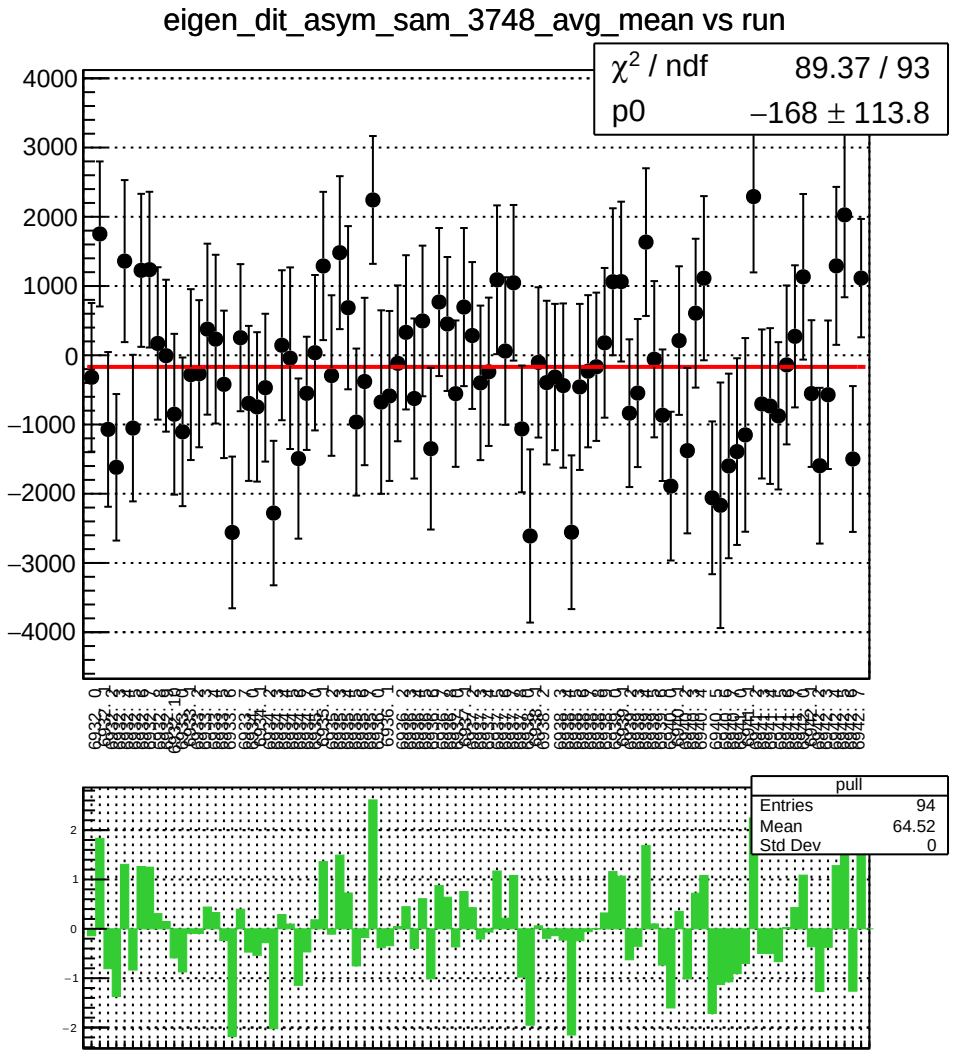

pull1D
Entries 94
Mean −0.01497
Std Dev 0.9749

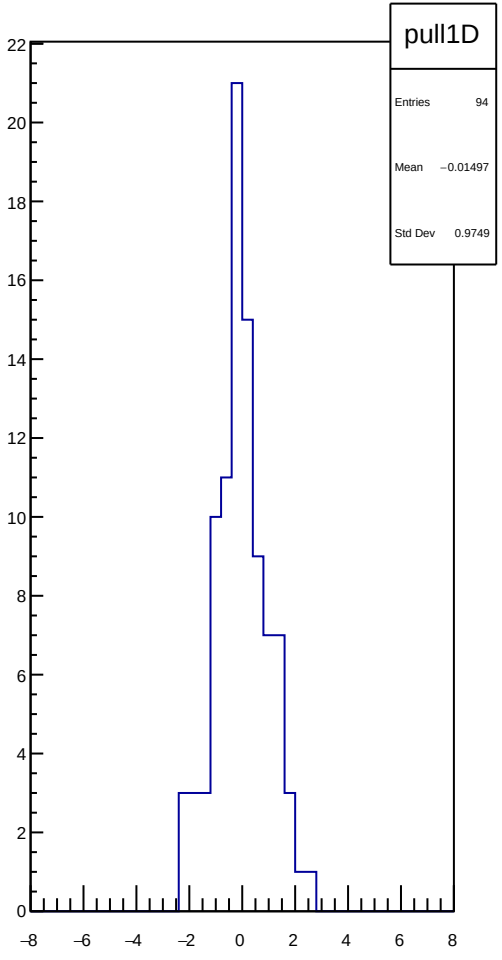

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.057e+04 / 93
p0 106.6 ± 0.08047
170
160
150
140
130
120
110
100

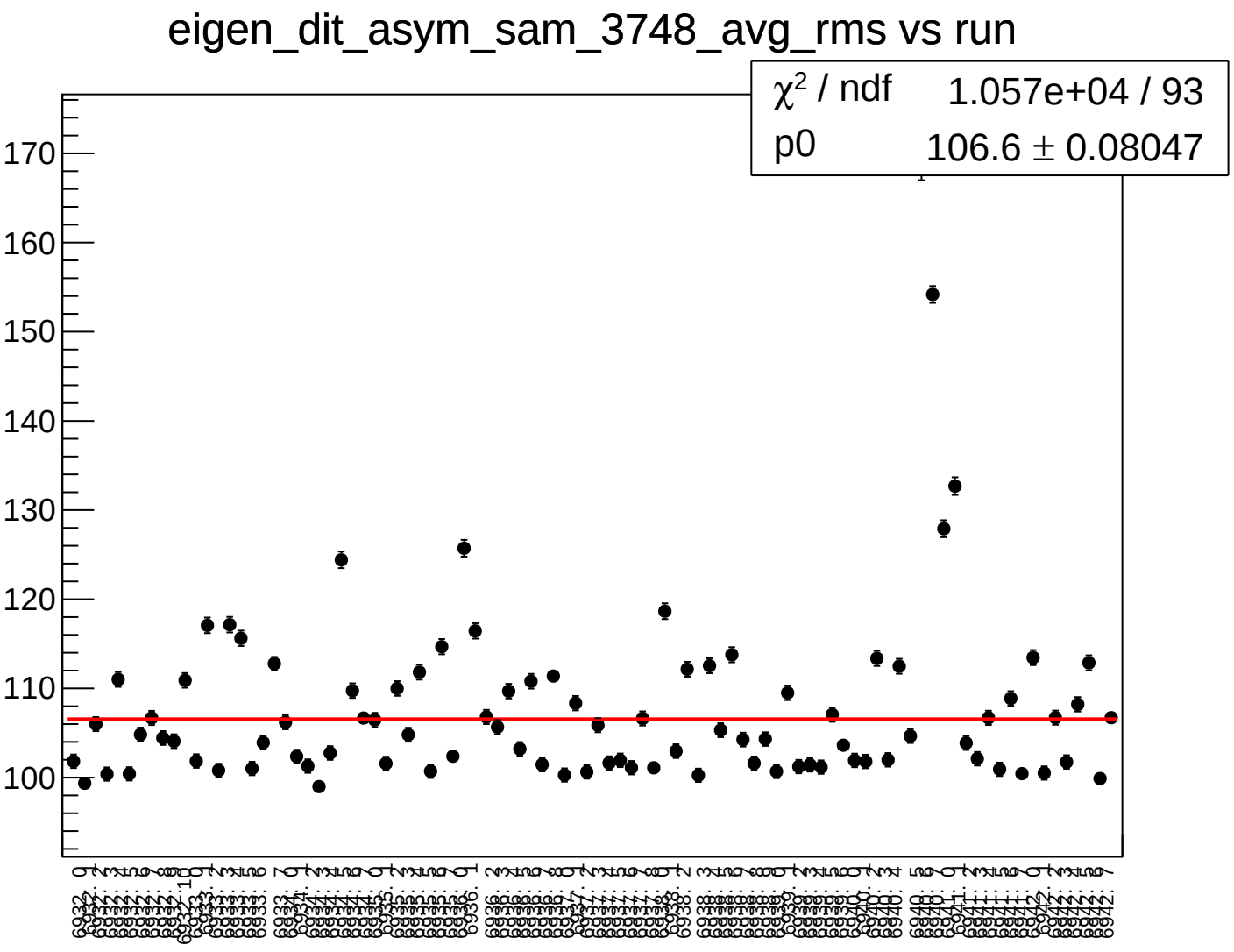

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 70.87 / 93
p0 402.2 ± 1081
pull
Entries 94
Mean 337
Std Dev 0

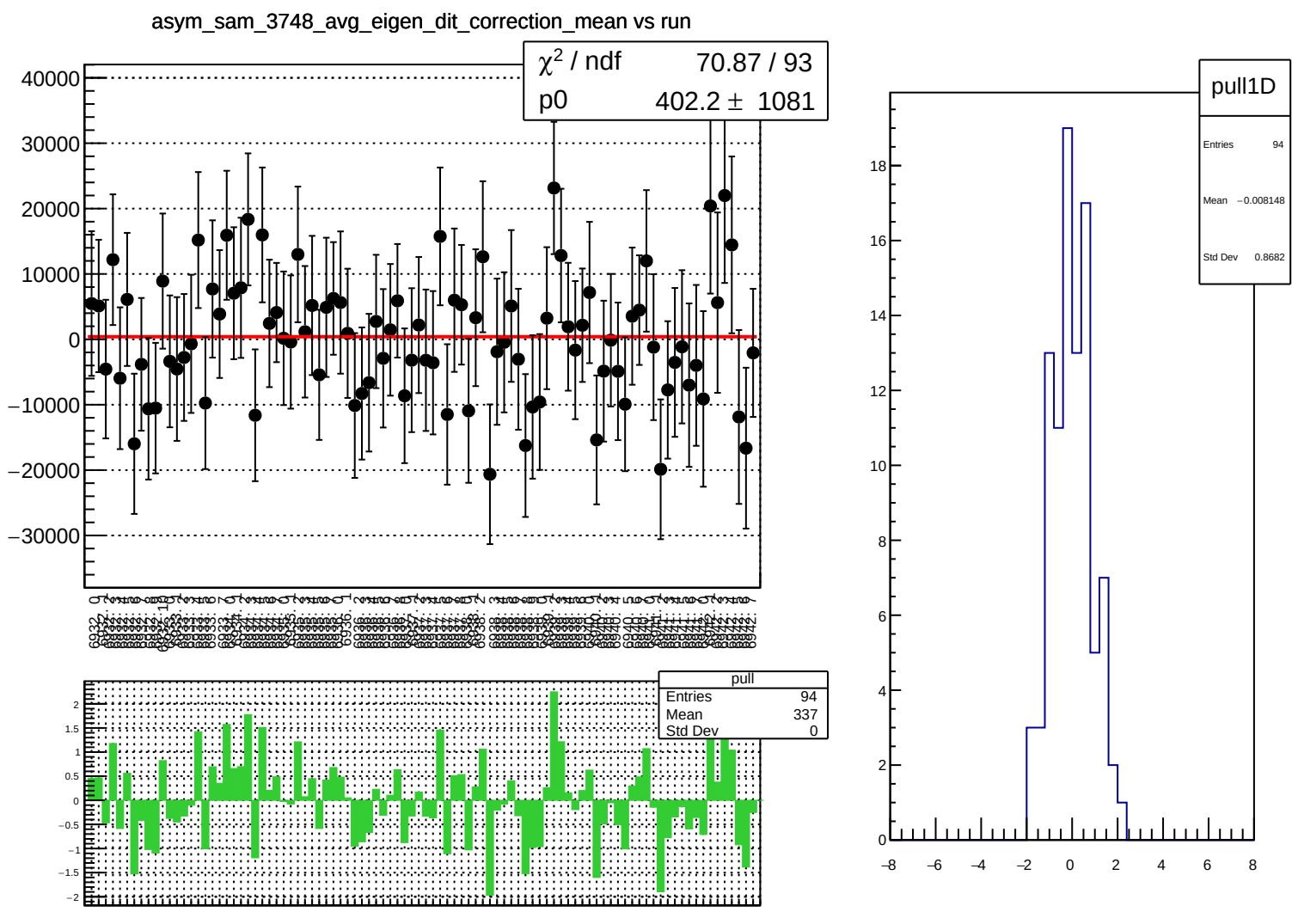

pull1D
Entries 94
Mean −0.008148
Std Dev 0.8682

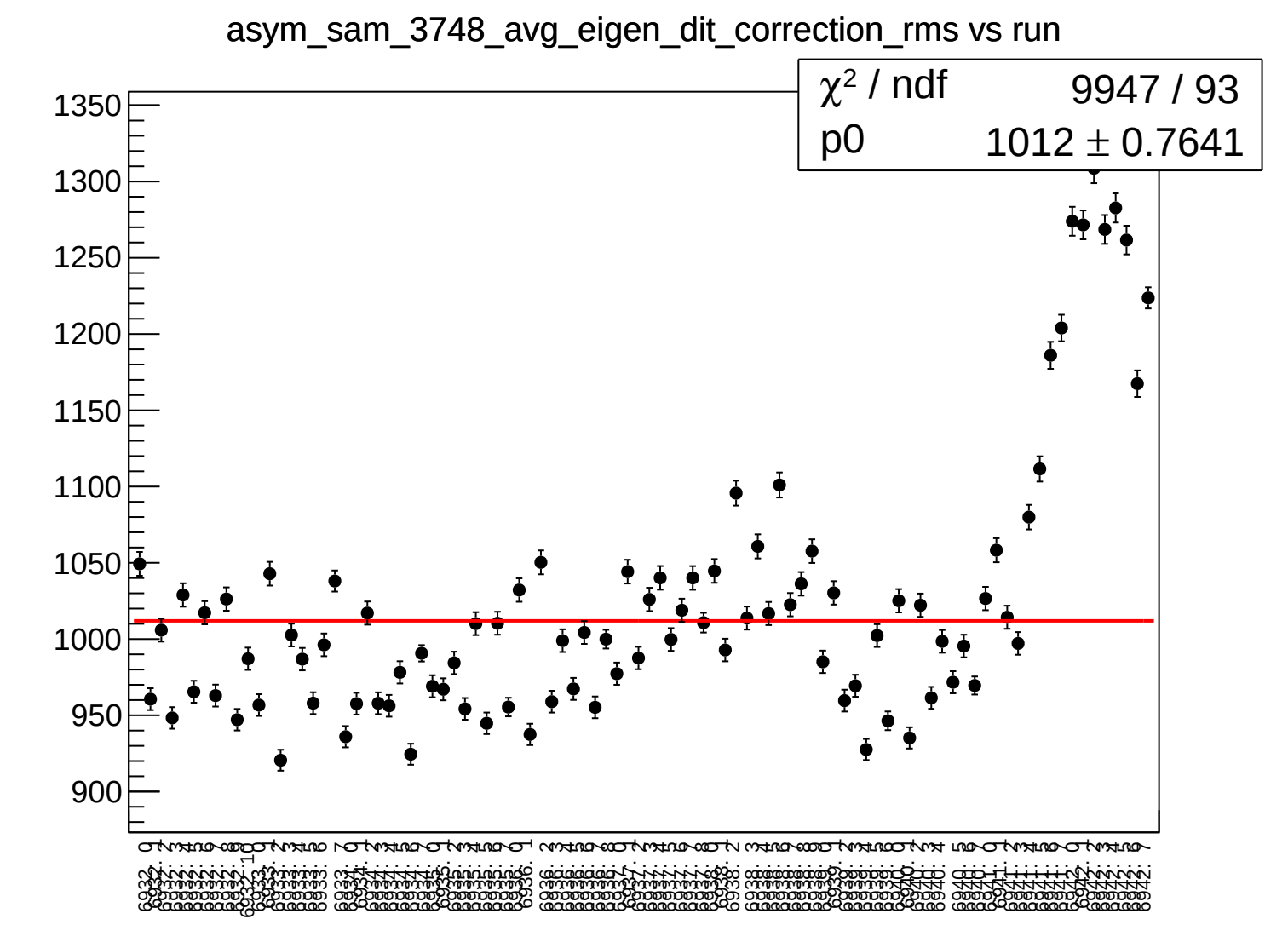

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 9947 / 93
p0 1012 ± 0.7641
1350
1300
1250
1200
1150
1100
1050
1000
950
900

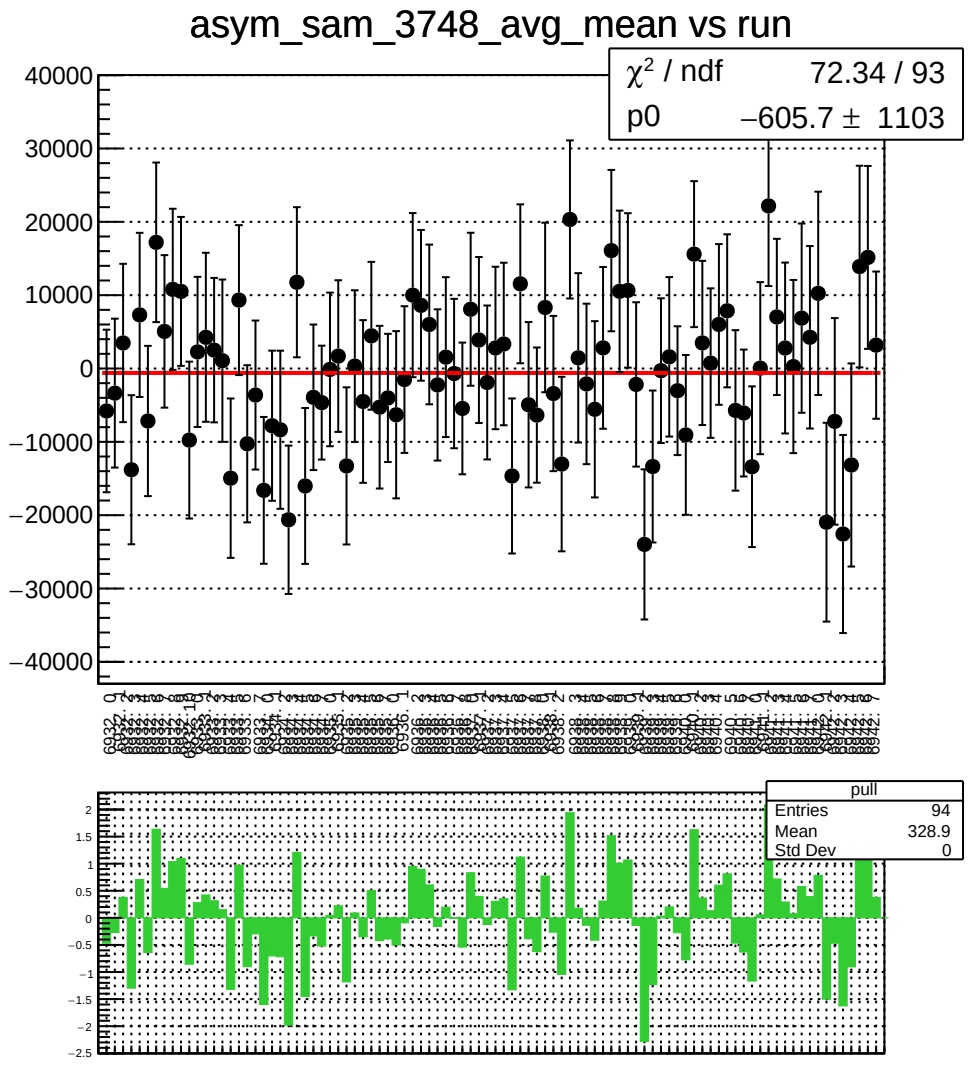

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 89.37 / 93
p0 −168 ± 113.8
pull
Entries 94
Mean 64.52
Std Dev 0

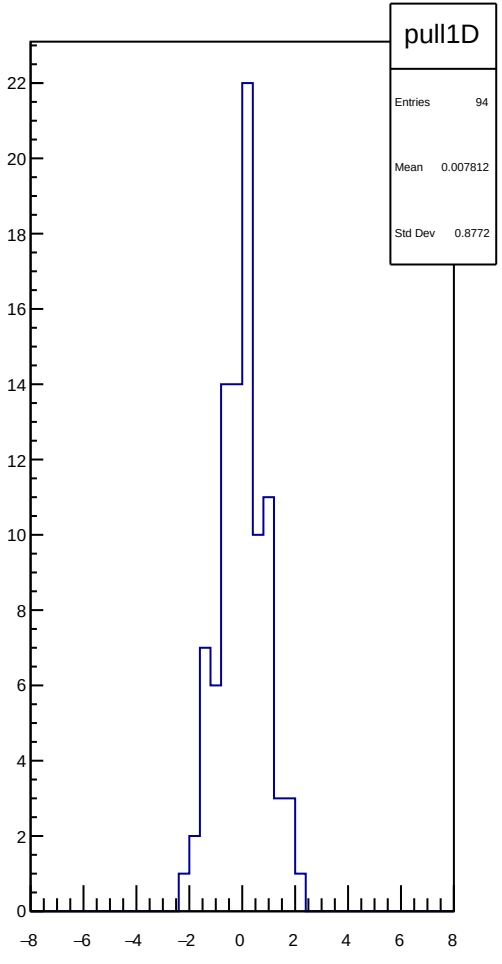

pull1D
Entries 94
Mean −0.01497
Std Dev 0.9749

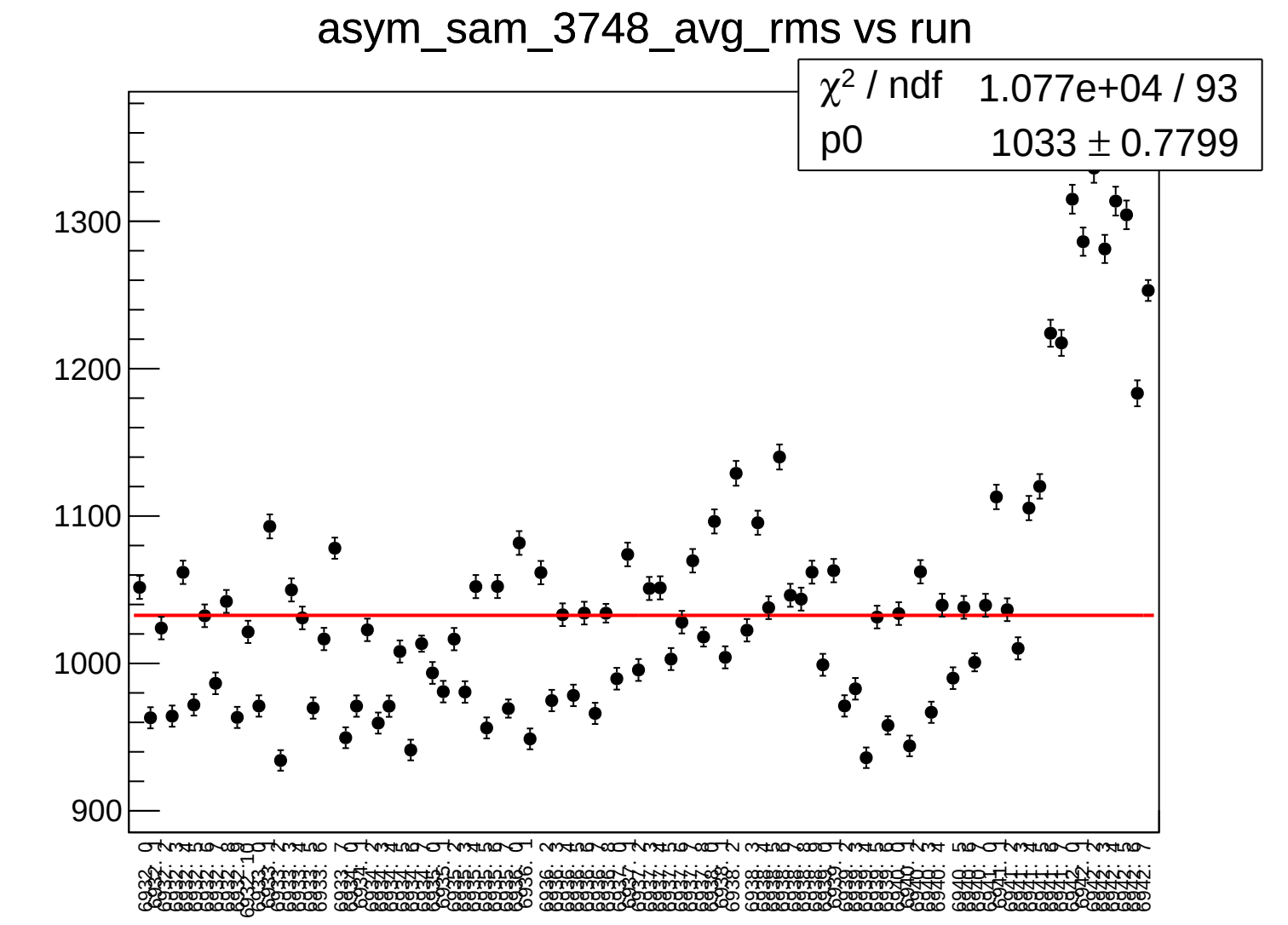

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.057e+04 / 93
p0 106.6 ± 0.08047
170
160
150
140
130
120
110
100

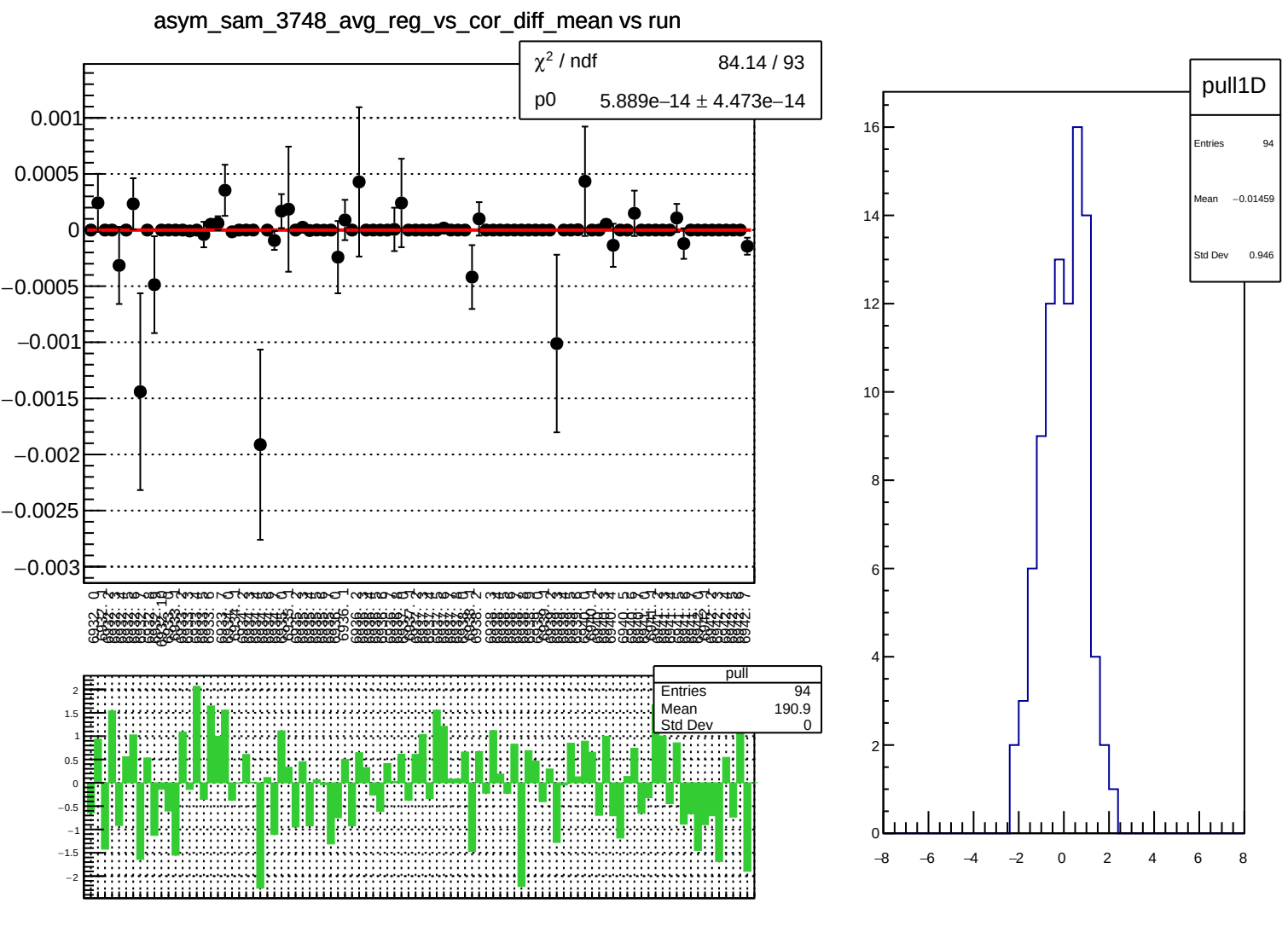

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.87 / 93
p0 402.2 ± 1081
pull
Entries 94
Mean 337
Std Dev 0
pull1D
Entries 94
Mean −0.008148
Std Dev 0.8682

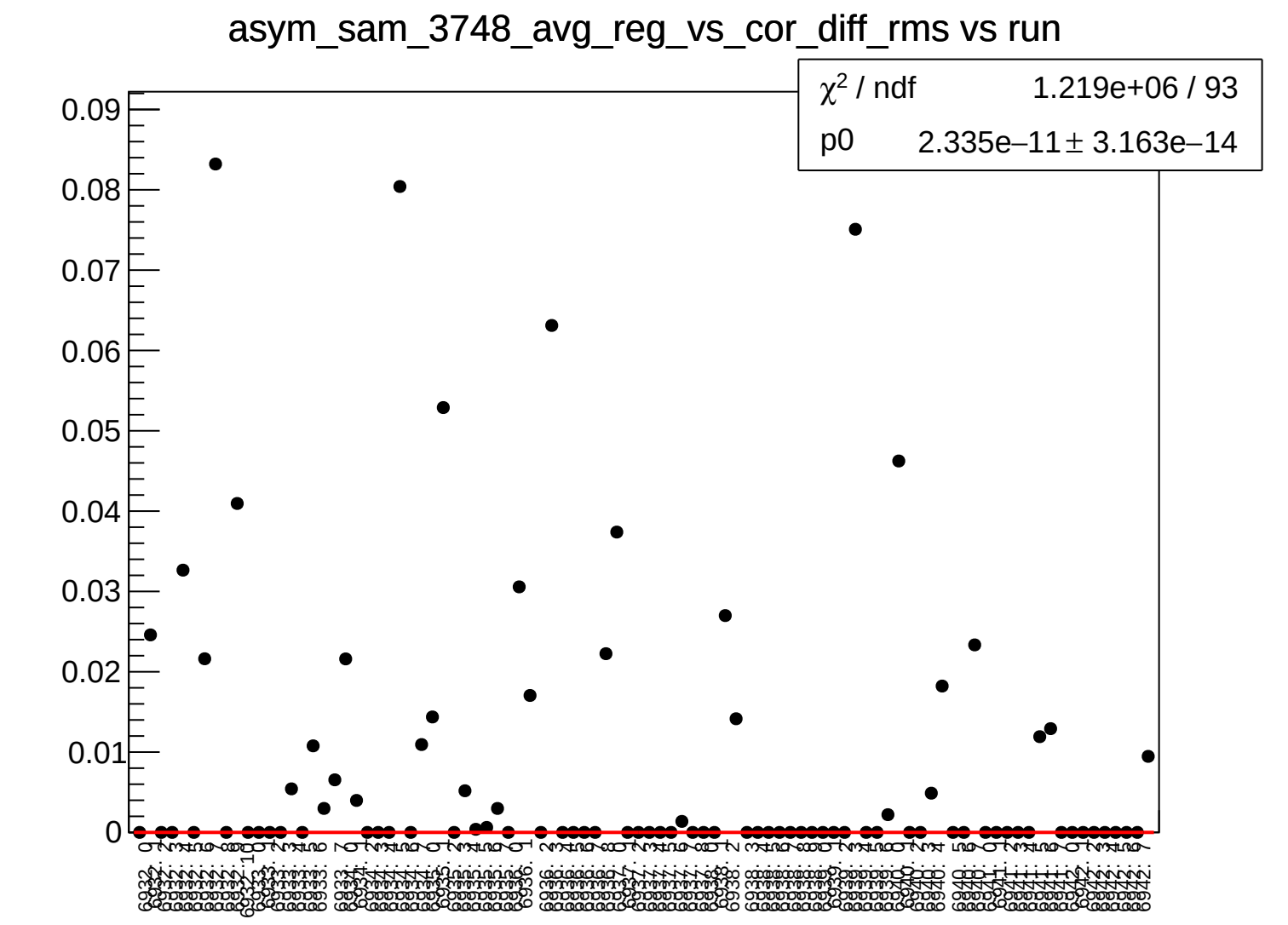

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 9947 / 93
p0 1012 ± 0.7641
1350
1300
1250
1200
1150
1100
1050
1000
950
900

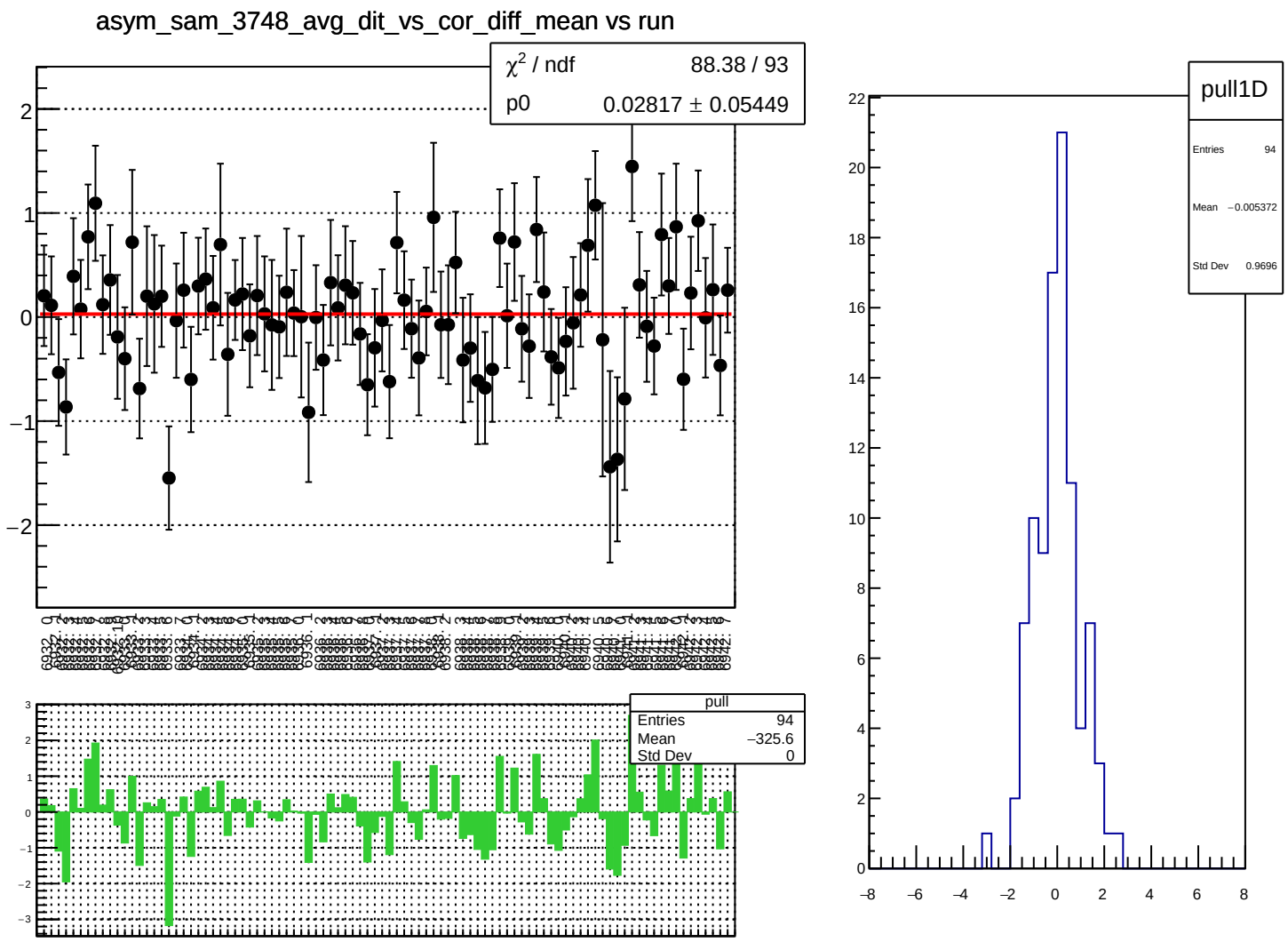

asym_sam_3748_avg_mean vs run
χ² / ndf 72.34 / 93
p0 −605.7 ± 1103
pull
Entries 94
Mean 328.9
Std Dev 0

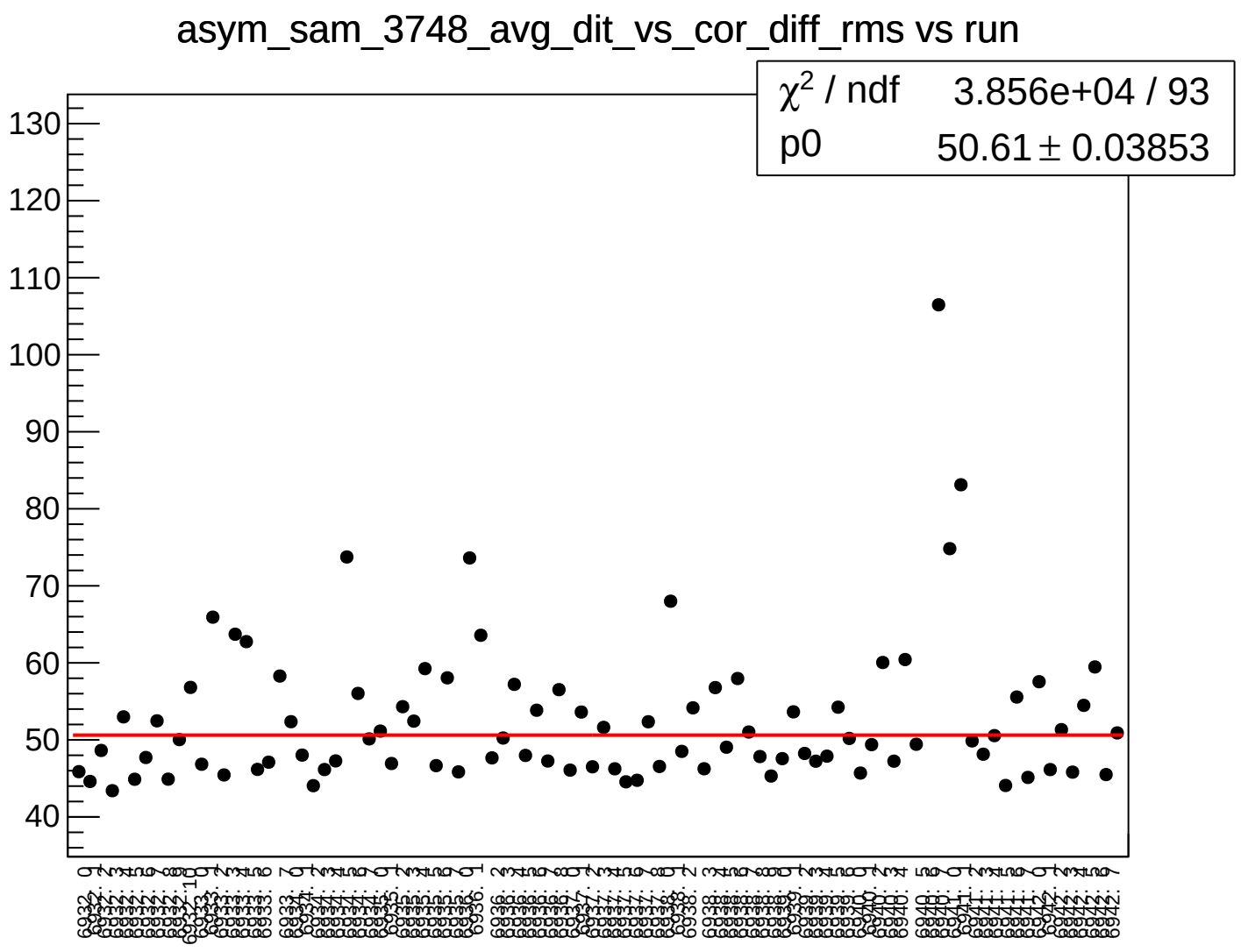

pull1D
Entries 94
Mean 0.007812
Std Dev 0.8772

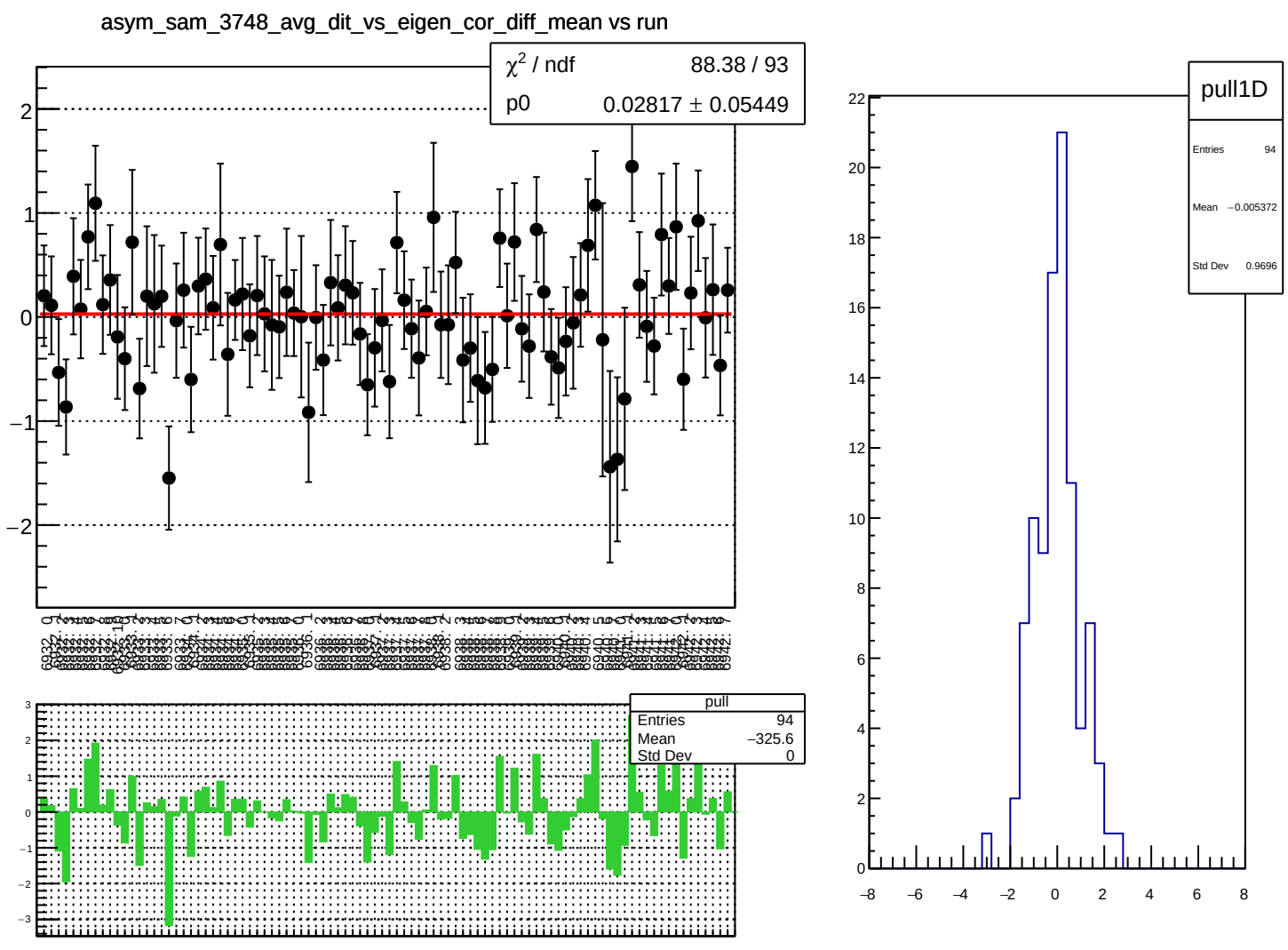

asym_sam_3748_avg_rms vs run
χ² / ndf 1.077e+04 / 93
p0 1033 ± 0.7799
1300
1200
1100
1000
900

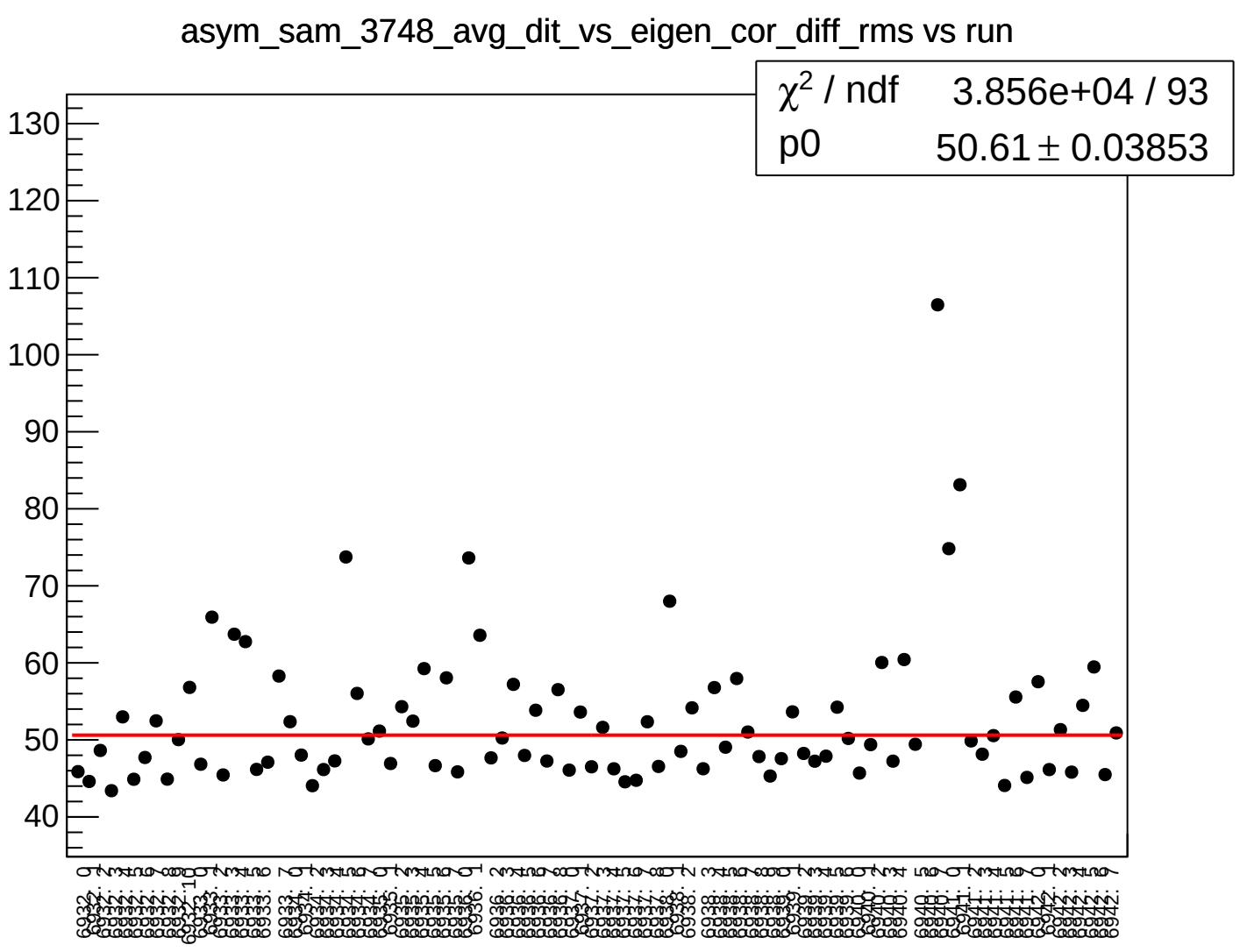

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.14 / 93
p0 5.889e−14 ± 4.473e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
−0.003
pull
Entries 94
Mean 190.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.01459
Std Dev 0.946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

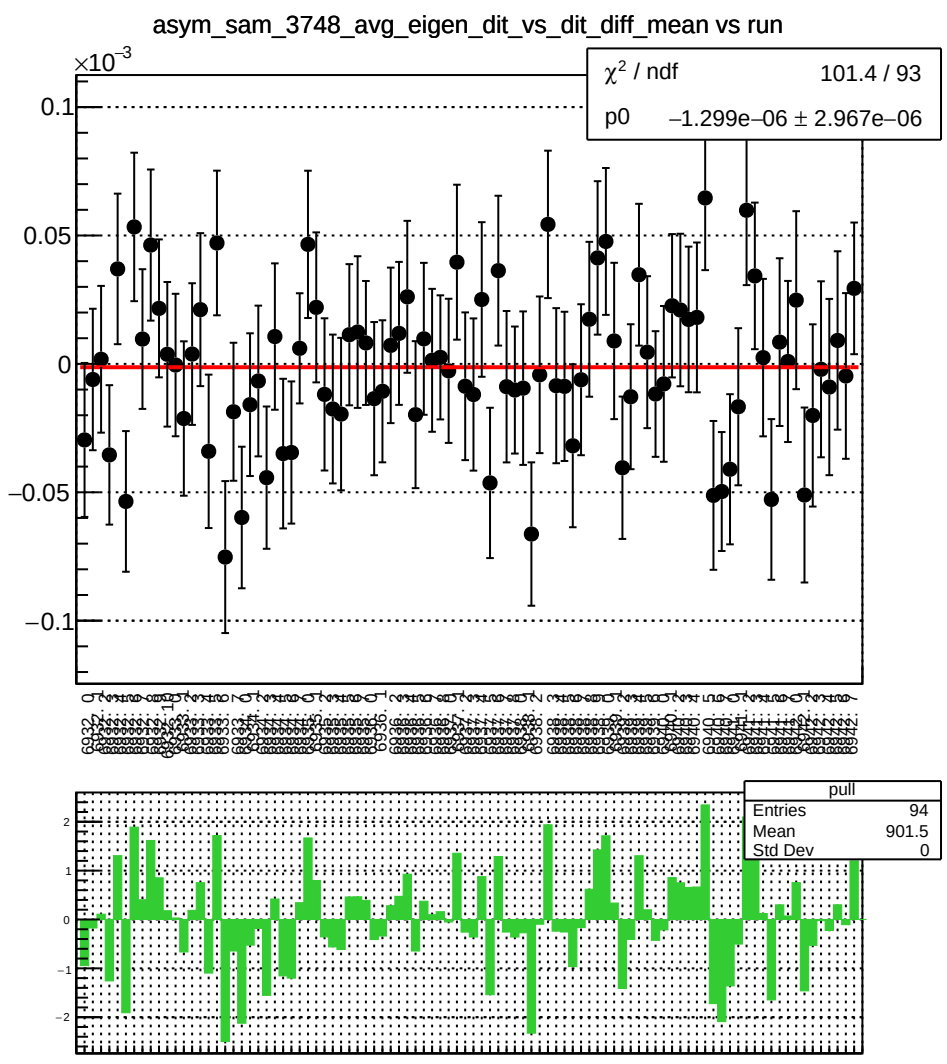

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 93
p0 2.335e−11 ± 3.163e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

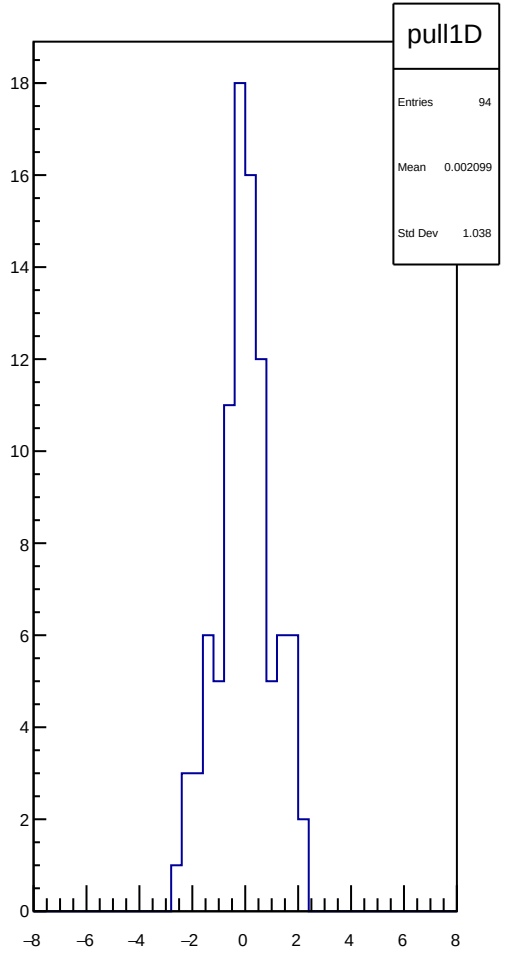

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 93
p0 0.02817 ± 0.05449
pull
Entries 94
Mean −325.6
Std Dev 0
pull1D
Entries 94
Mean −0.005372
Std Dev 0.9696

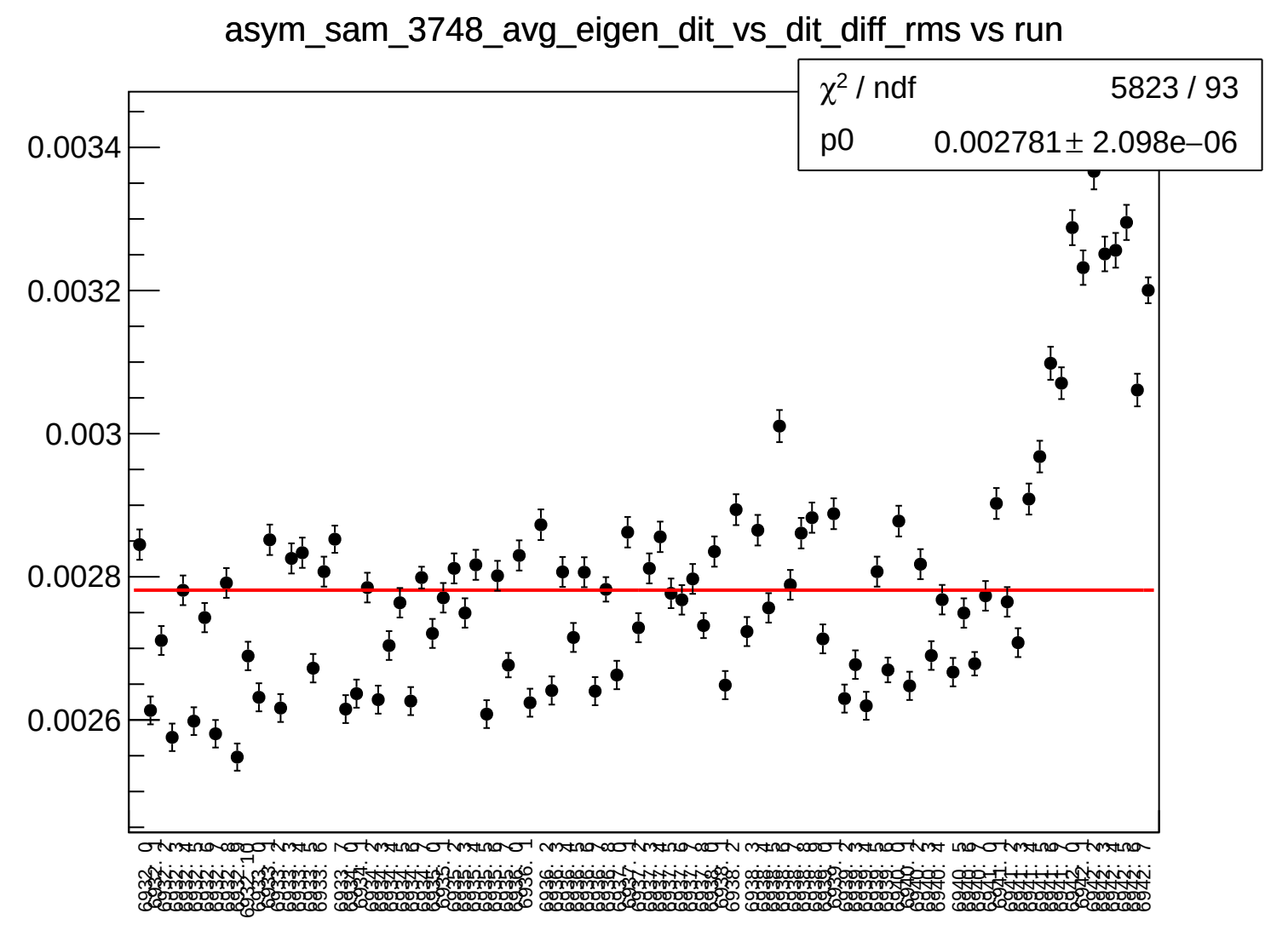

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.856e+04 / 93
p0 50.61 ± 0.03853
130
120
110
100
90
80
70
60
50
40

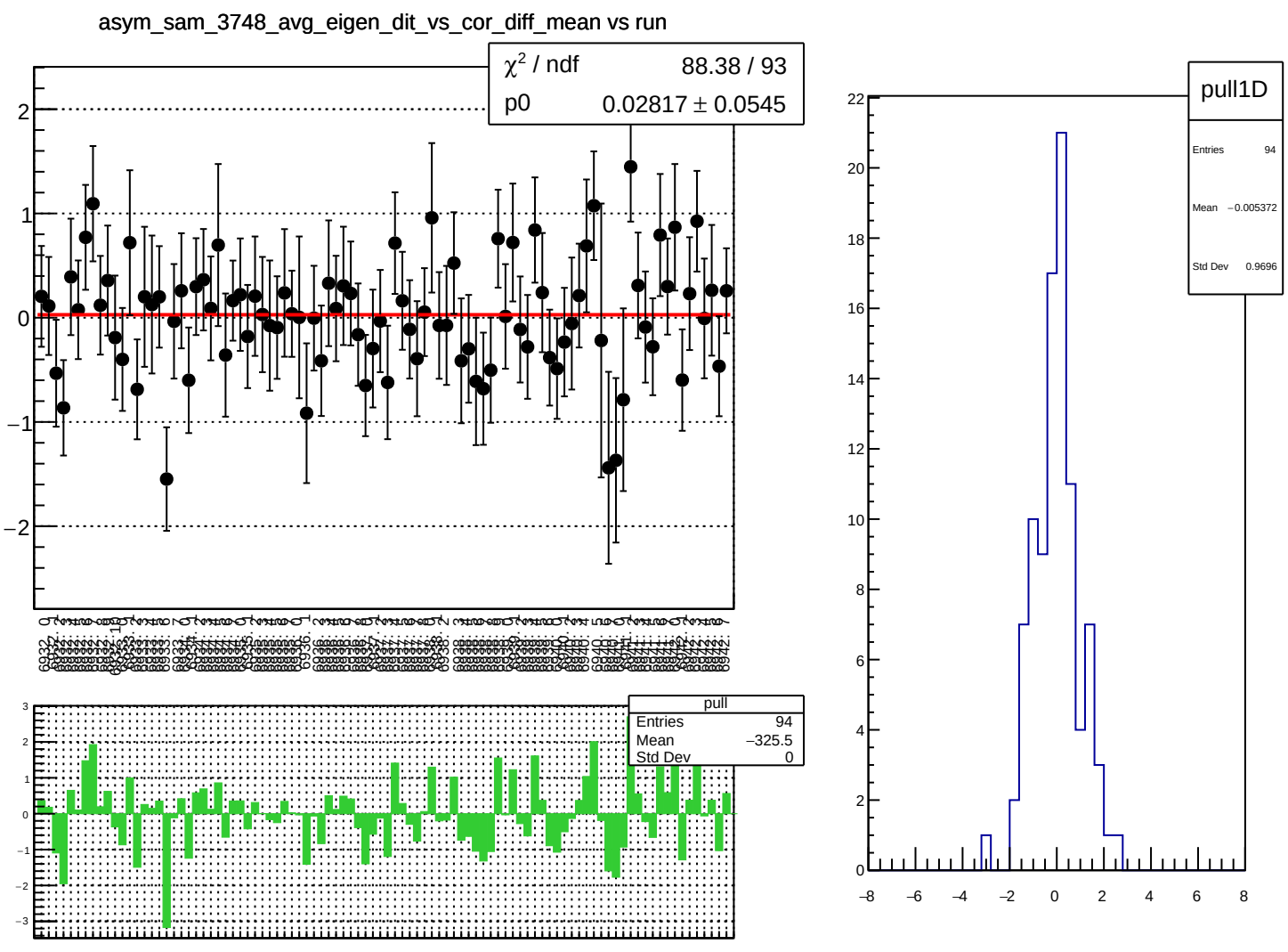

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 93
p0 0.02817 ± 0.05449
pull
Entries 94
Mean −325.6
Std Dev 0
pull1D
Entries 94
Mean −0.005372
Std Dev 0.9696

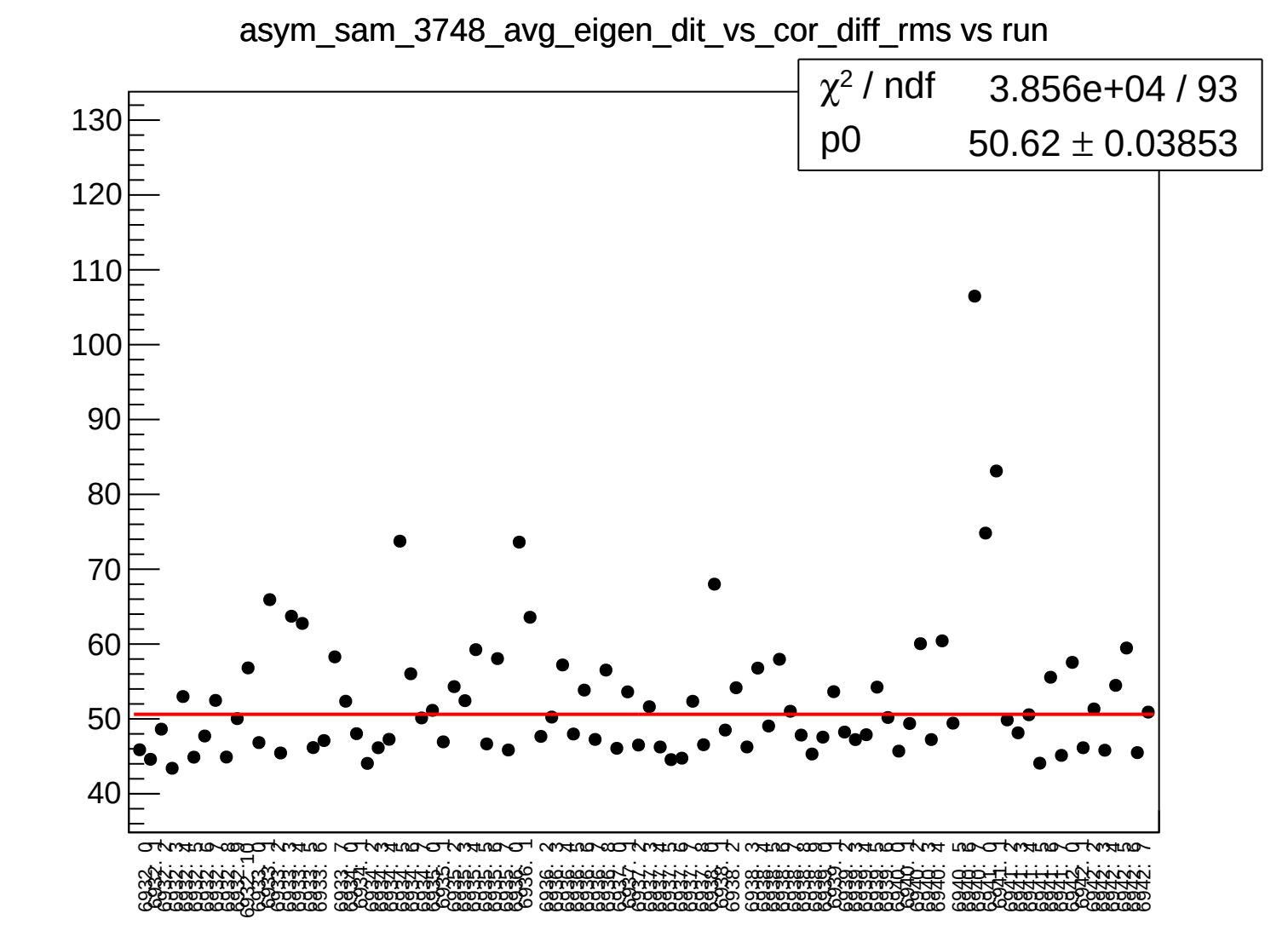

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.856e+04 / 93
p0 50.61 ± 0.03853
130
120
110
100
90
80
70
60
50
40

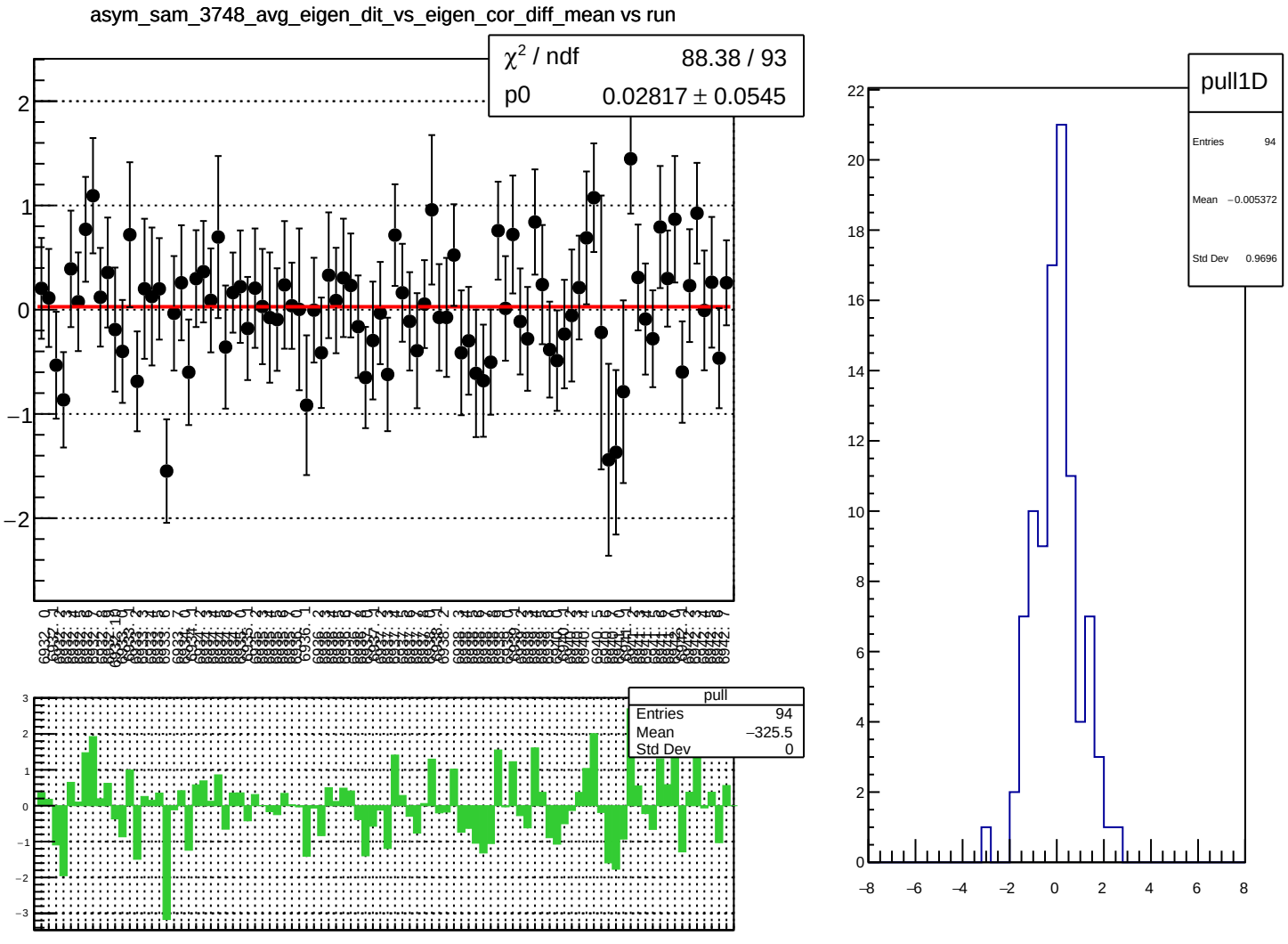

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 101.4 / 93
p0 −1.299e−06 ± 2.967e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 901.5
Std Dev 0
2
1
0
−1
−2

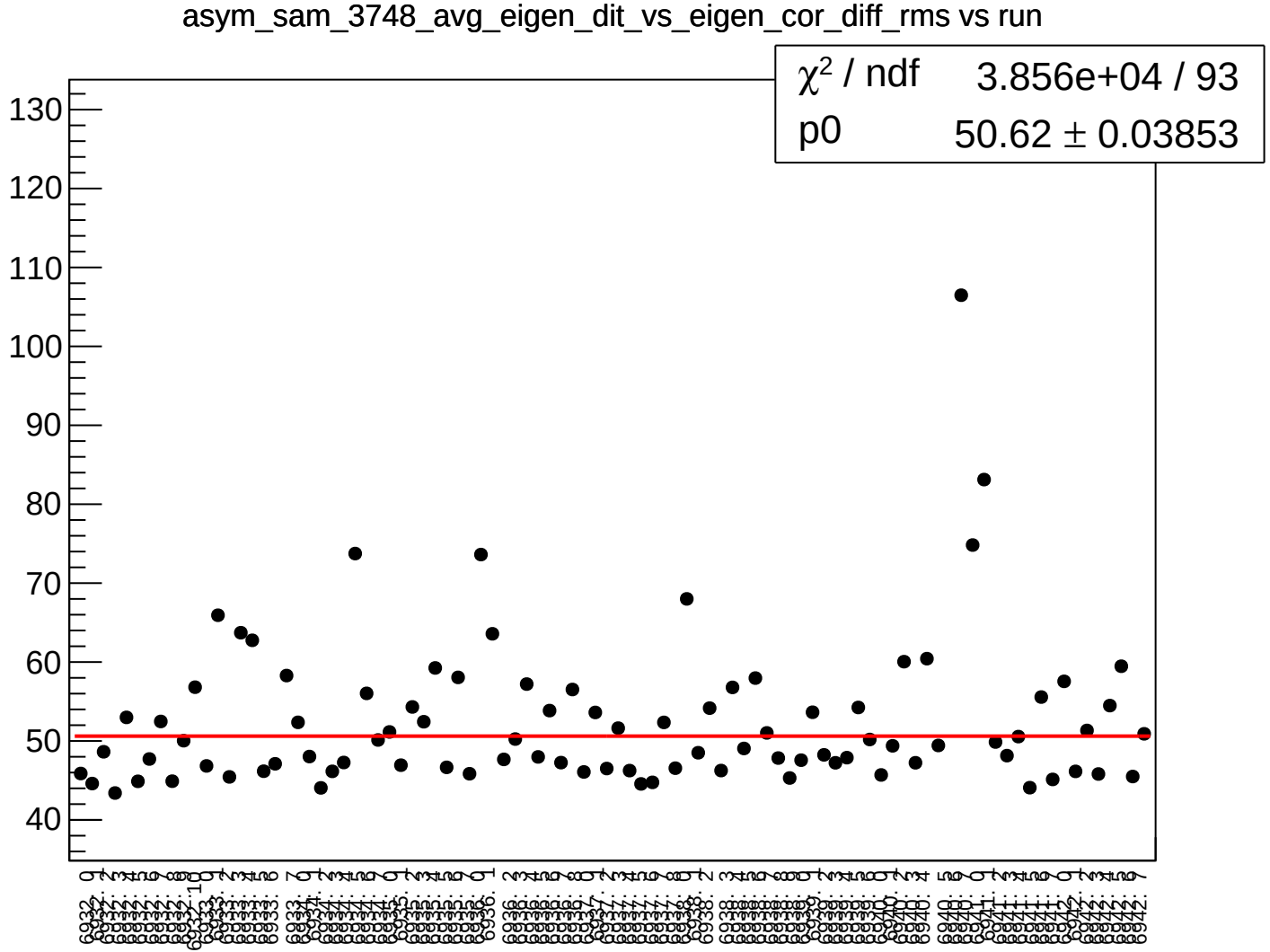

pull1D
Entries 94
Mean 0.002099
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

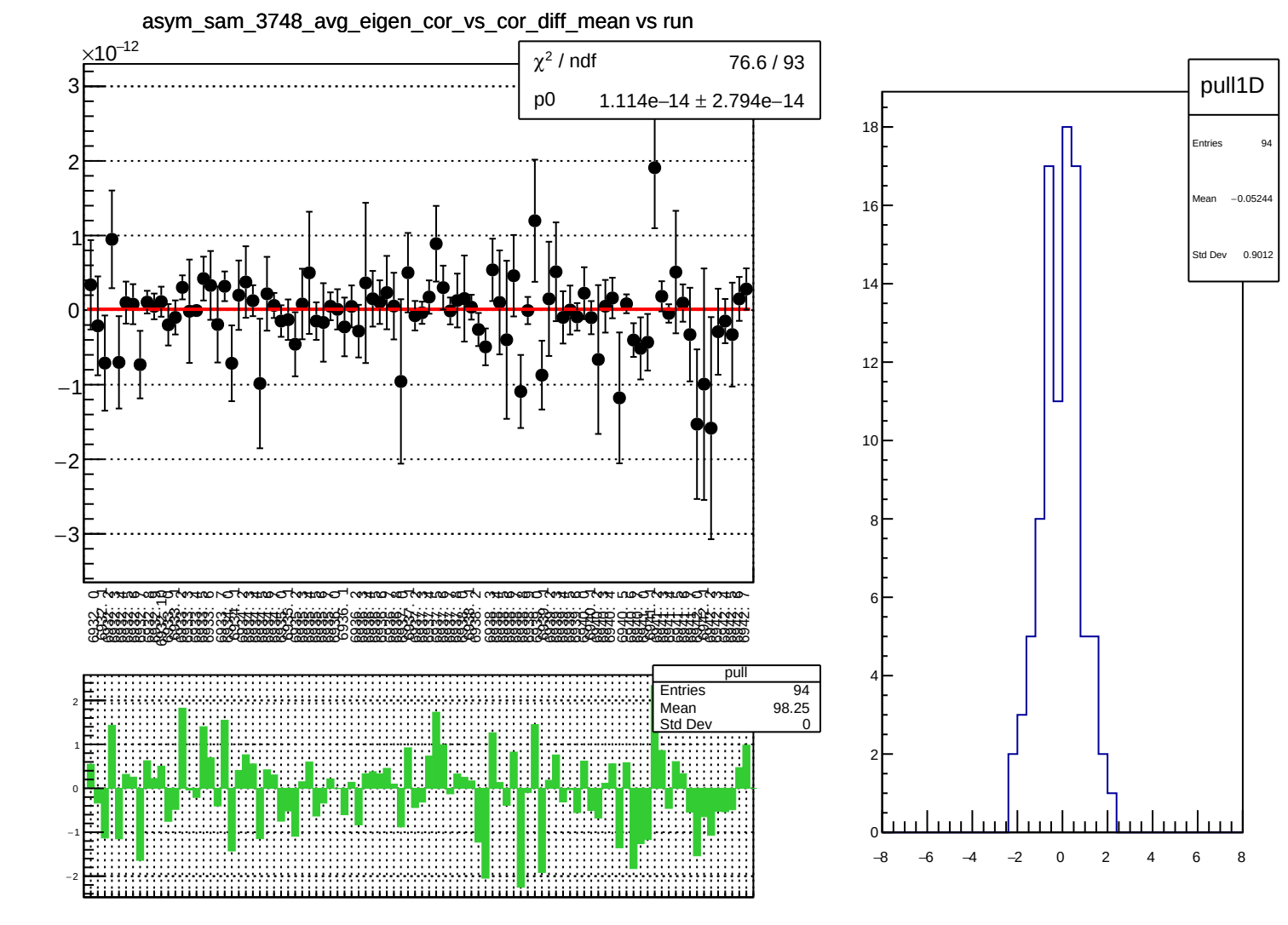

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5823 / 93
p0 0.002781 ± 2.098e−06
0.0034
0.0032
0.003
0.0028
0.0026

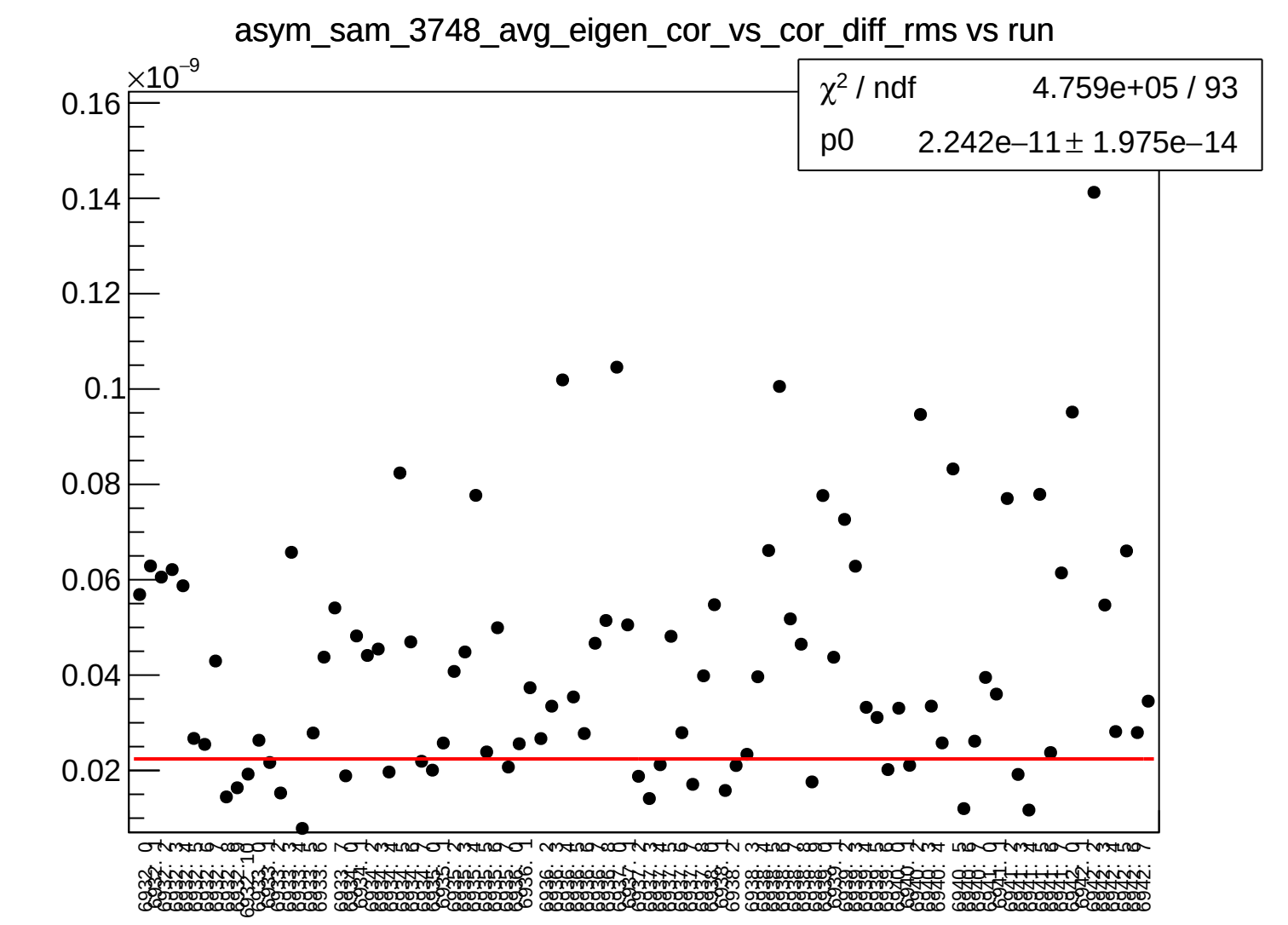

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.38 / 93
p0 0.02817 ± 0.0545
pull
Entries 94
Mean −325.5
Std Dev 0
pull1D
Entries 94
Mean −0.005372
Std Dev 0.9696

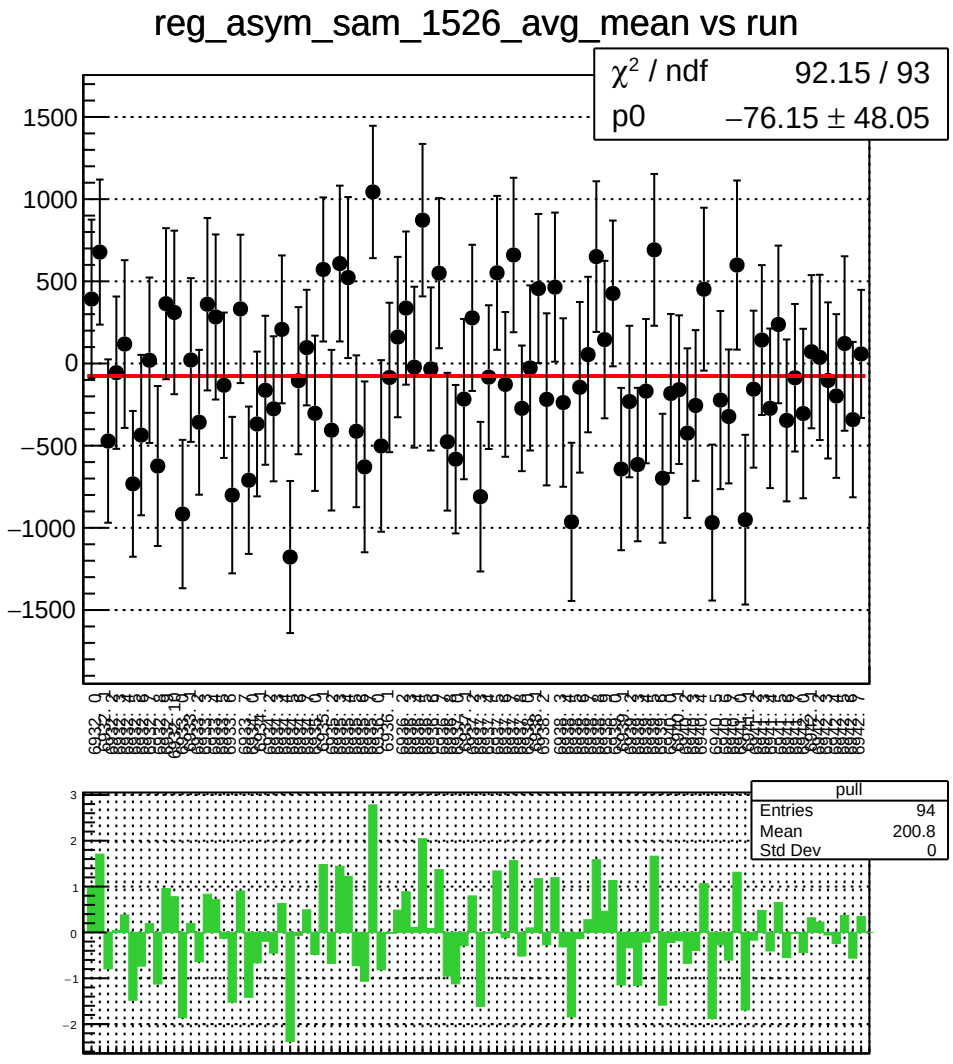

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.856e+04 / 93
p0 50.62 ± 0.03853
130
120
110
100
90
80
70
60
50
40

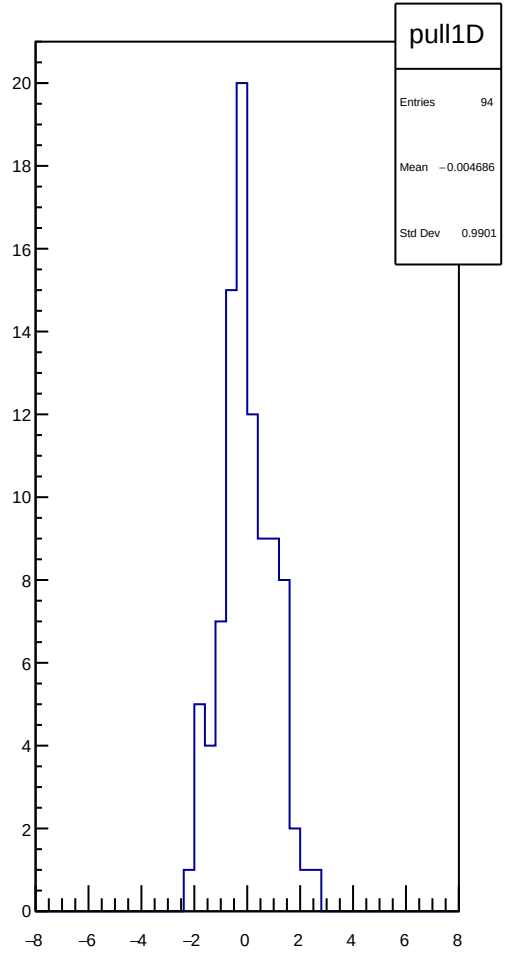

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.38 / 93
p0 0.02817 ± 0.0545
pull
Entries 94
Mean −325.5
Std Dev 0
pull1D
Entries 94
Mean −0.005372
Std Dev 0.9696

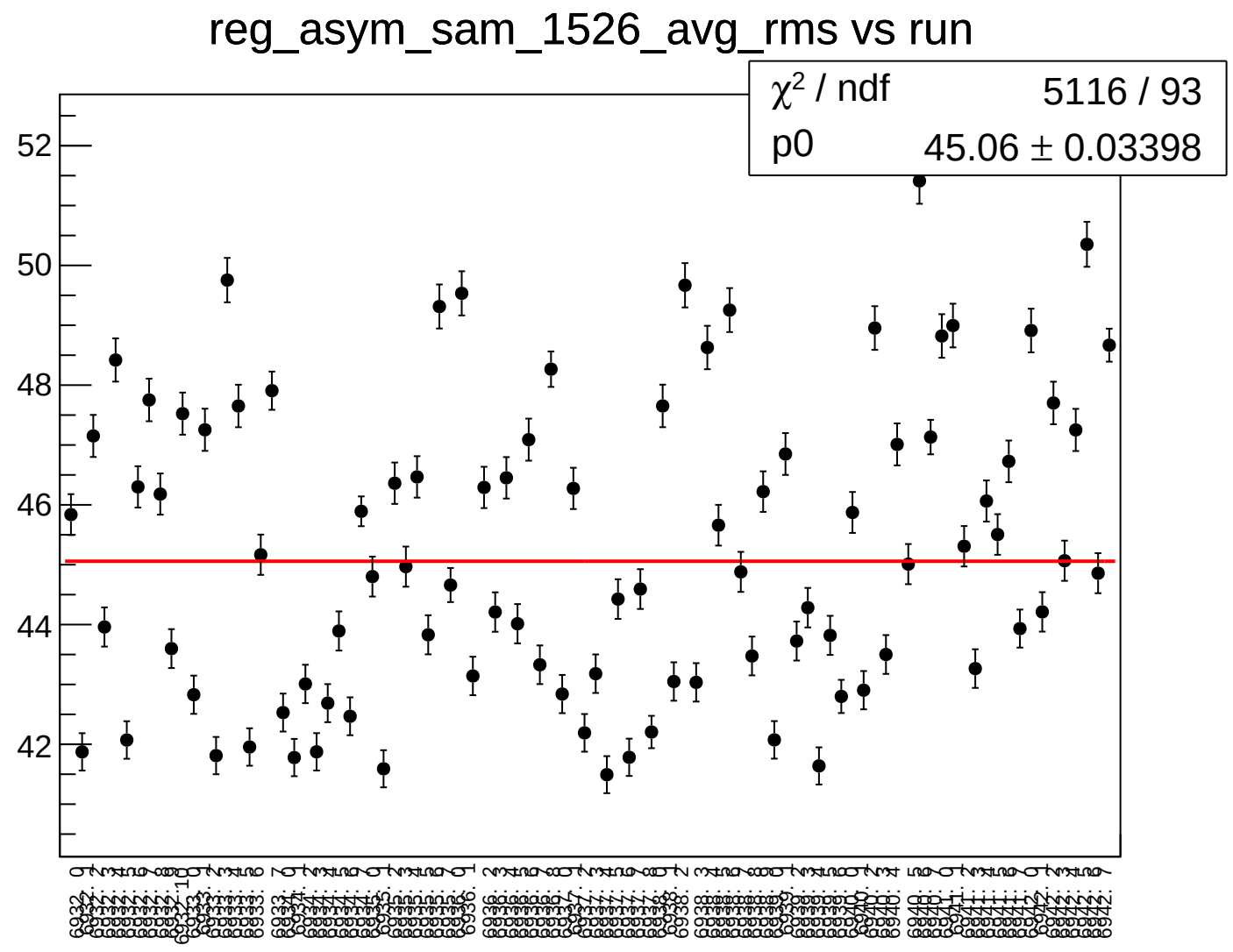

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.856e+04 / 93
p0 50.62 ± 0.03853
130
120
110
100
90
80
70
60
50
40

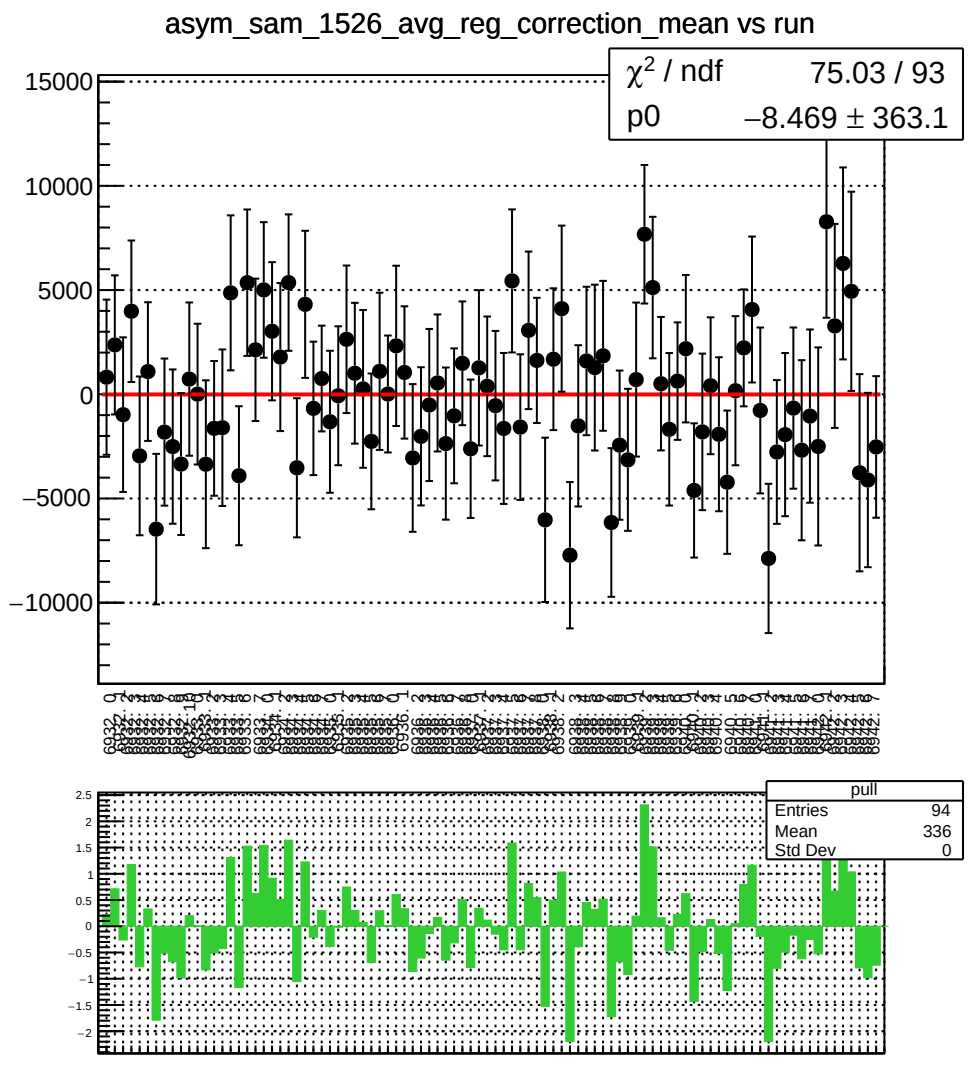

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 76.6 / 93
p0 1.114e−14 ± 2.794e−14
pull
Entries 94
Mean 98.25
Std Dev 0
pull1D
Entries 94
Mean −0.05244
Std Dev 0.9012

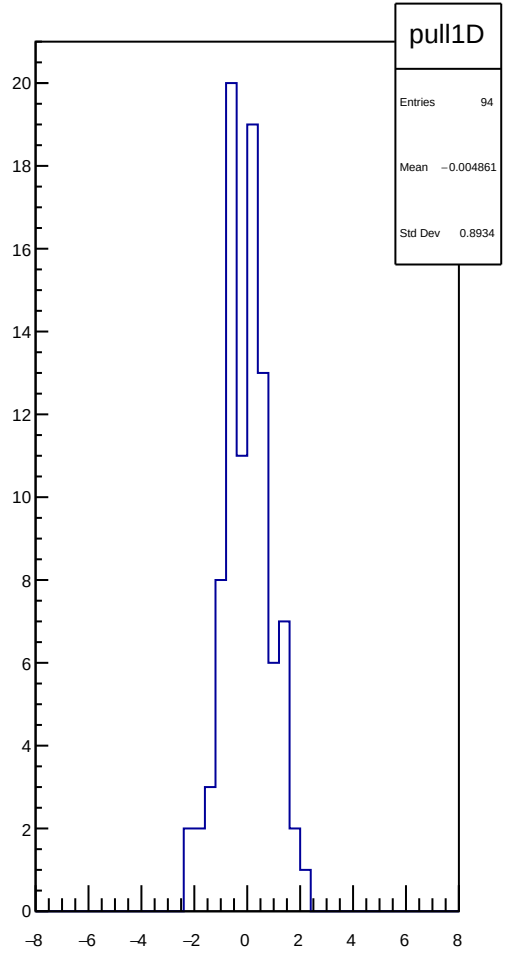

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.759e+05 / 93
p0 2.242e−11 ± 1.975e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

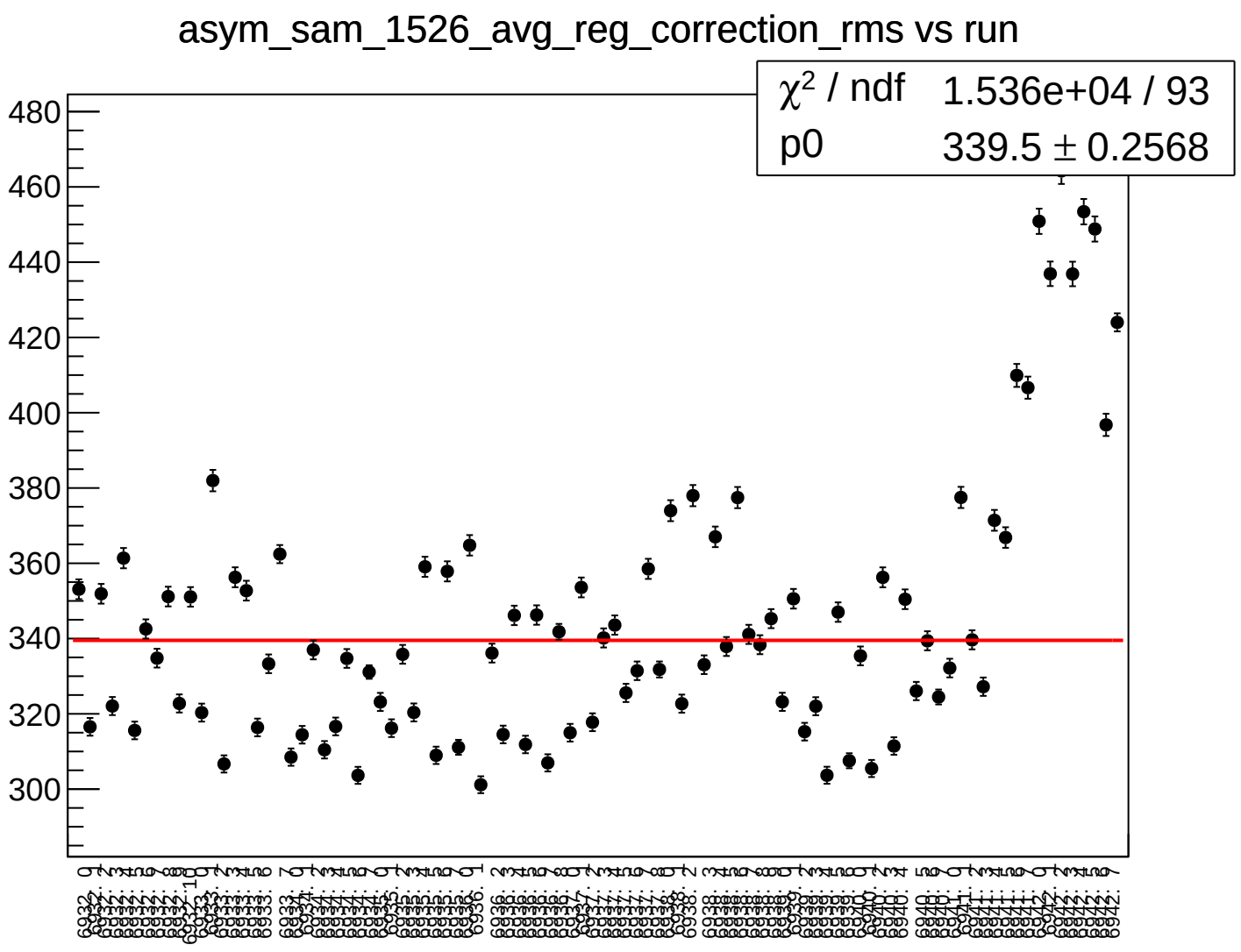

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 92.15 / 93
p0 −76.15 ± 48.05
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 200.8
Std Dev 0
3
2
1
0
−1
−2

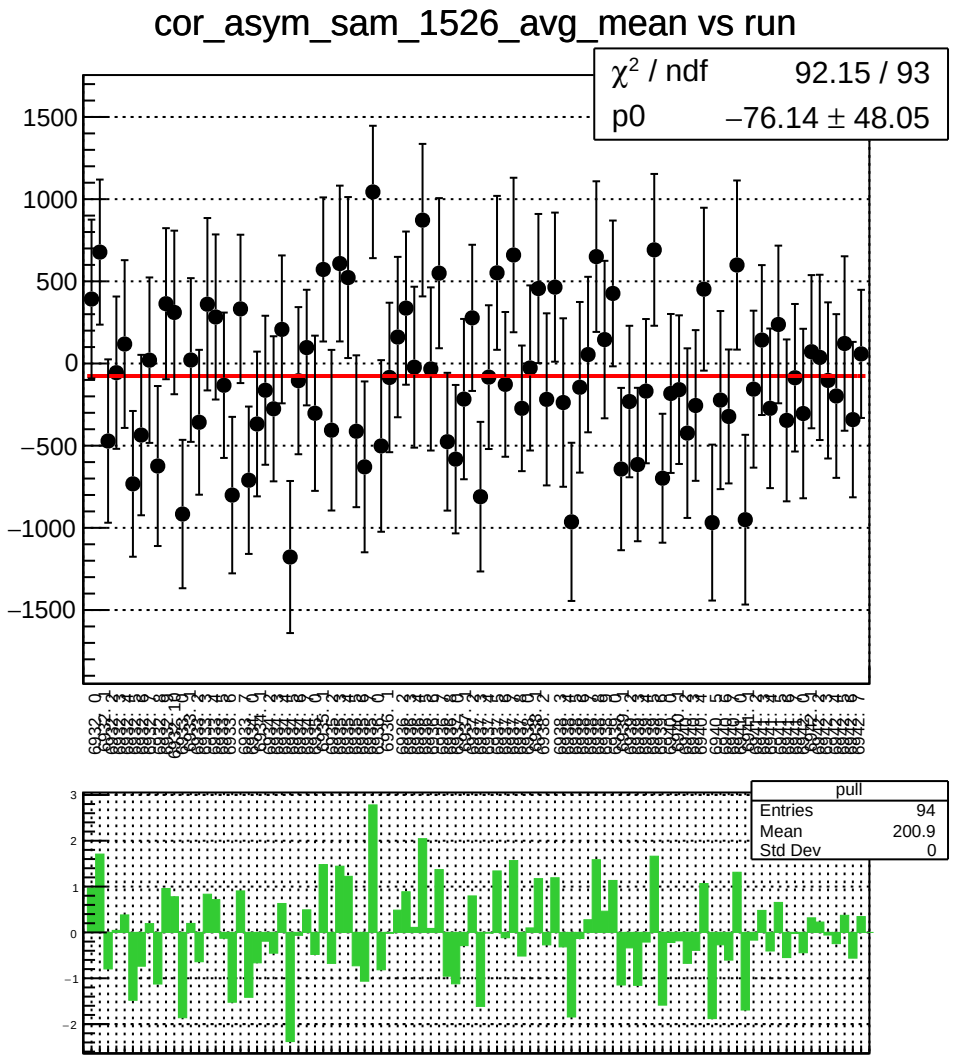

pull1D
Entries 94
Mean −0.004686
Std Dev 0.9901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

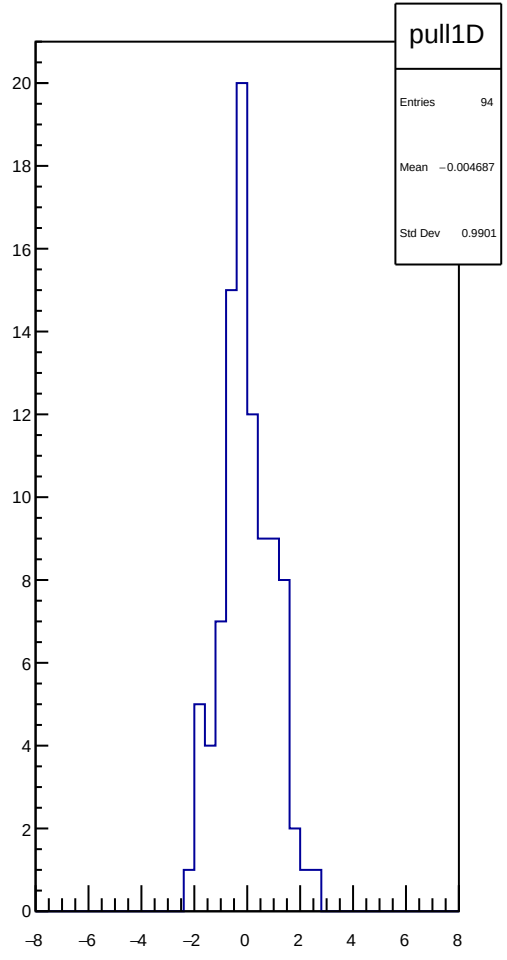

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 5116 / 93
p0 45.06 ± 0.03398
52
50
48
46
44
42

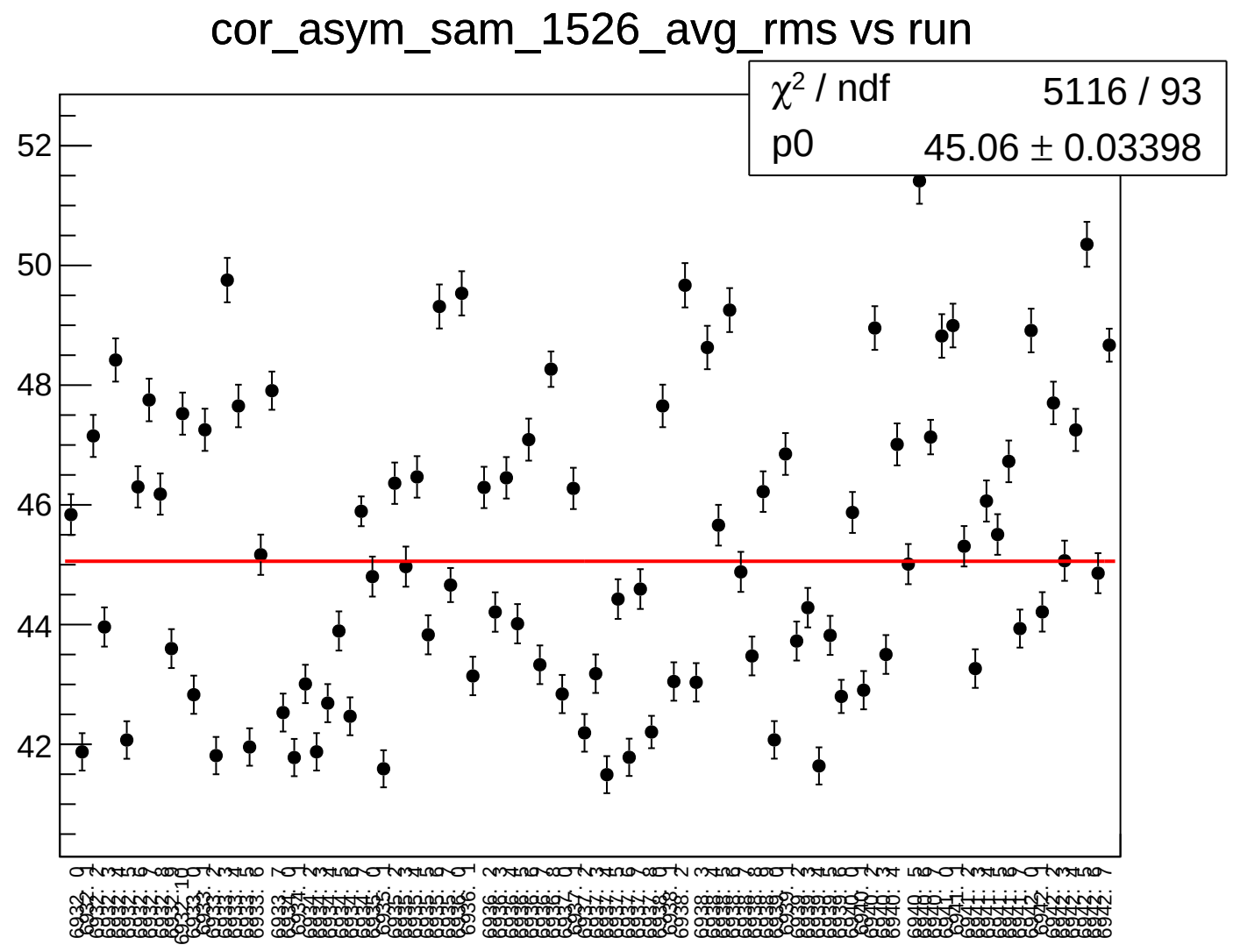

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 75.03 / 93
p0 −8.469 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 336
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

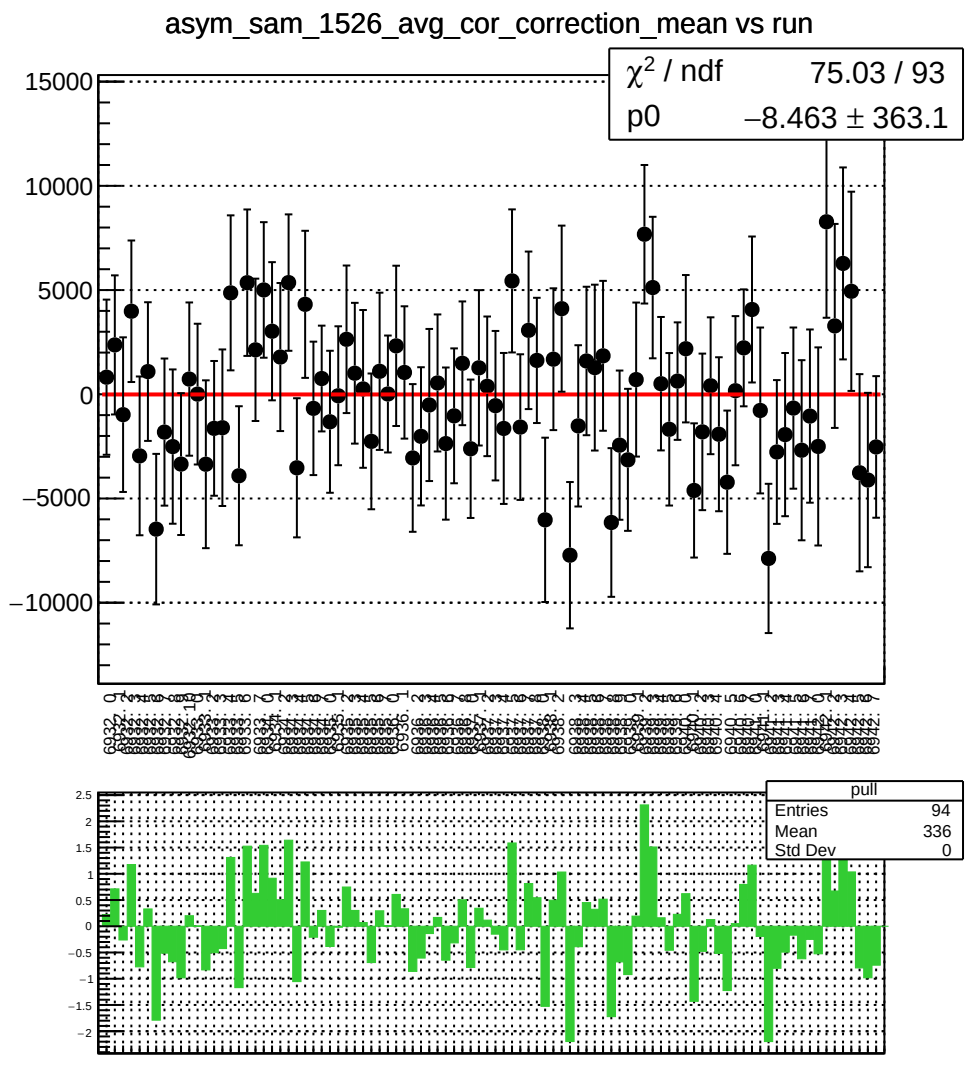

pull1D
Entries 94
Mean −0.004861
Std Dev 0.8934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

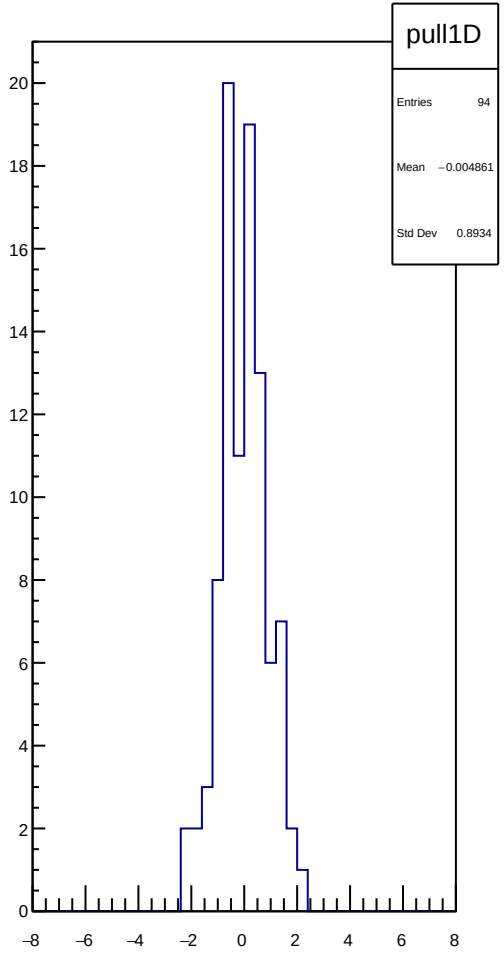

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 339.5 ± 0.2568
480
460
440
420
400
380
360
340
320
300

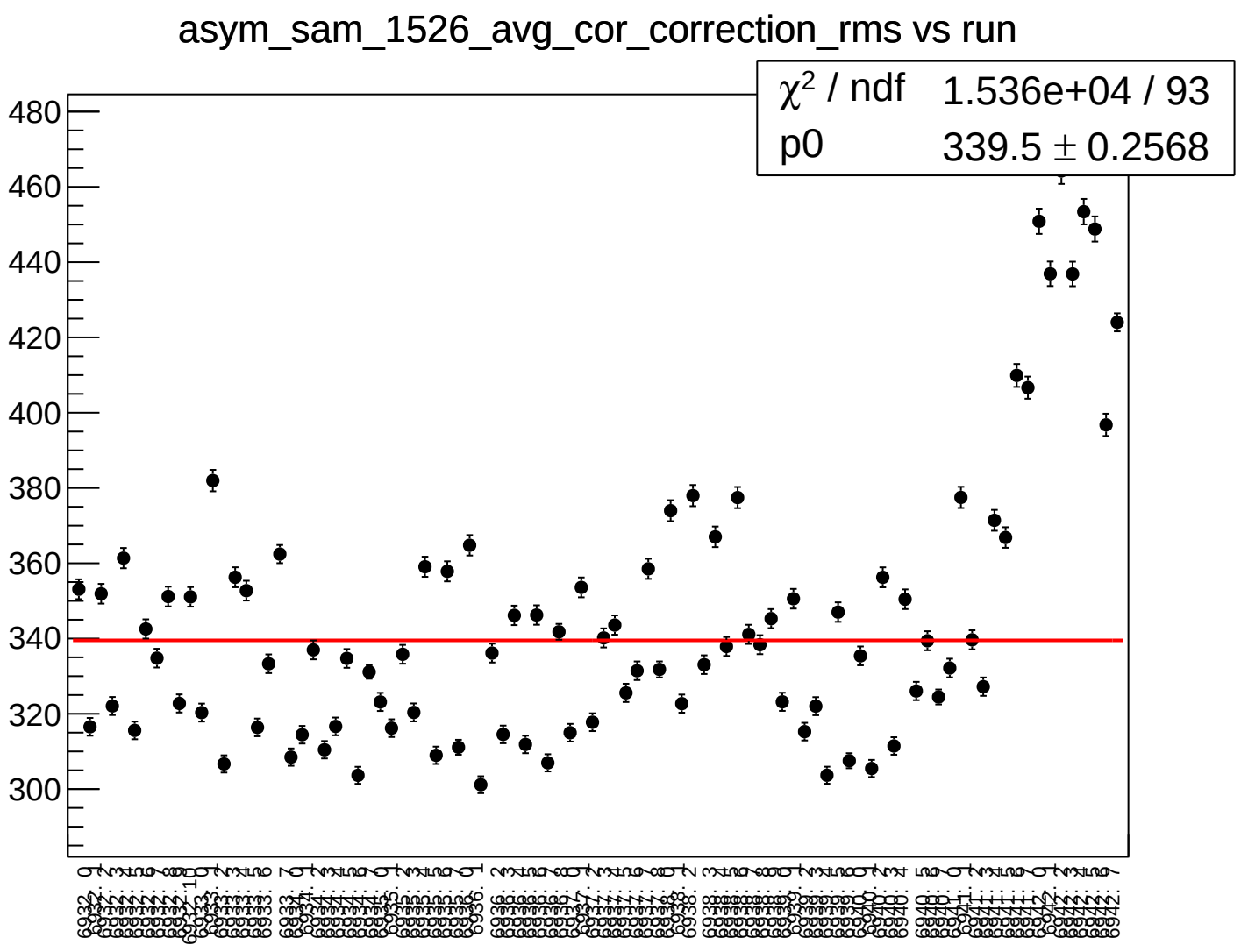

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 92.15 / 93
p0 −76.14 ± 48.05
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2

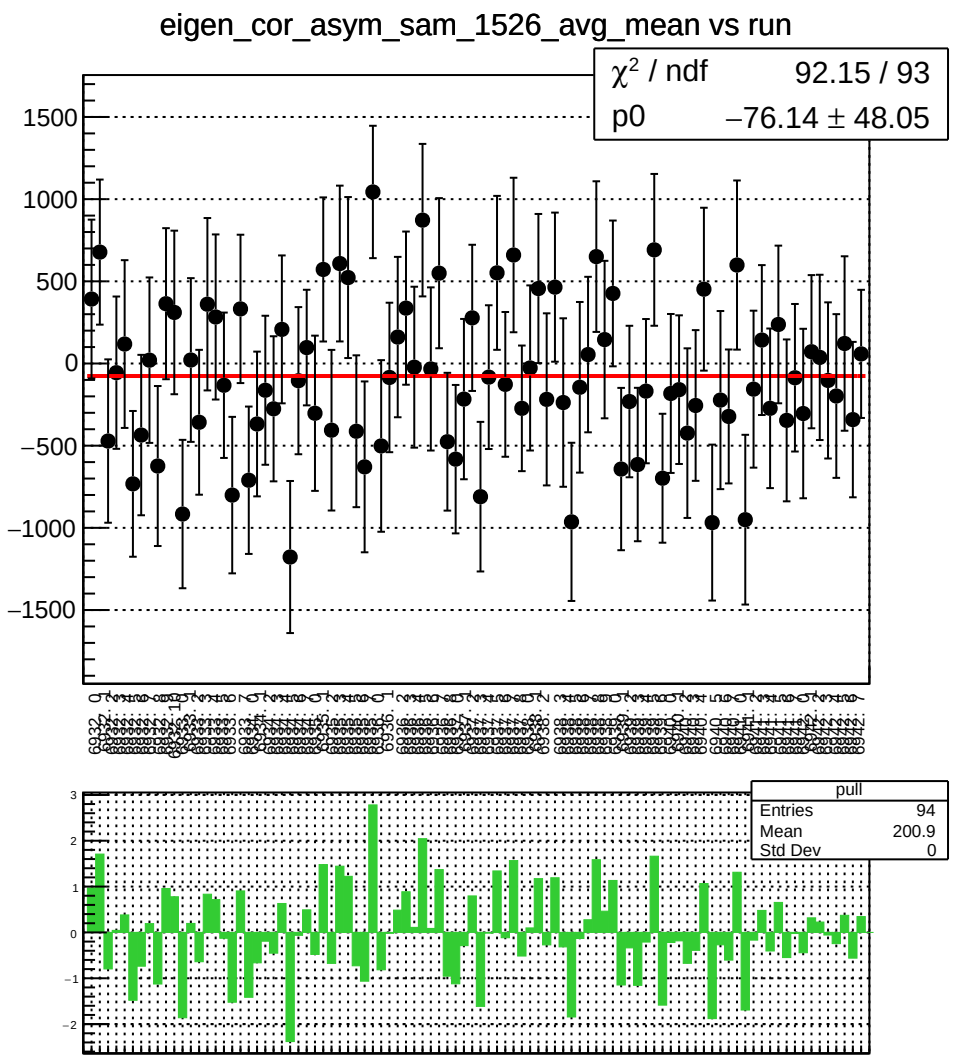

pull1D
Entries 94
Mean −0.004687
Std Dev 0.9901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

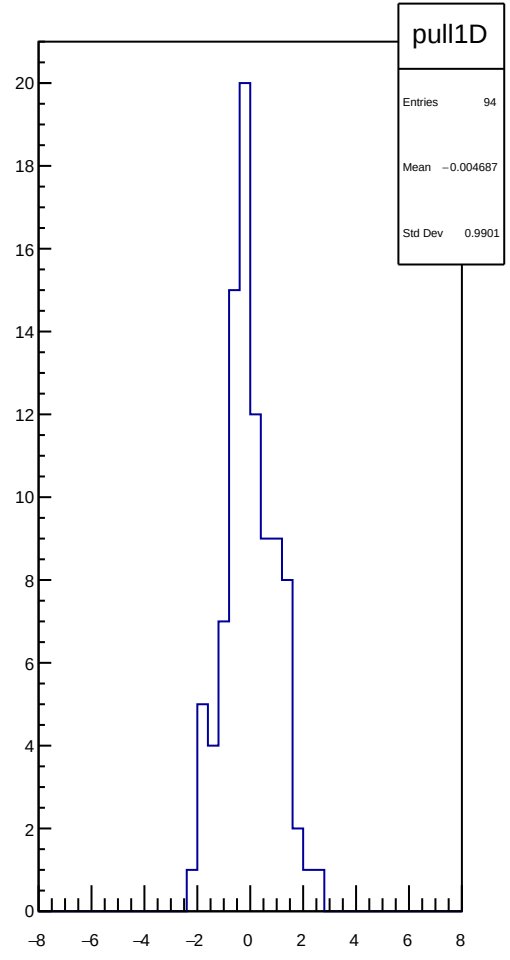

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5116 / 93
p0 45.06 ± 0.03398
52
50
48
46
44
42

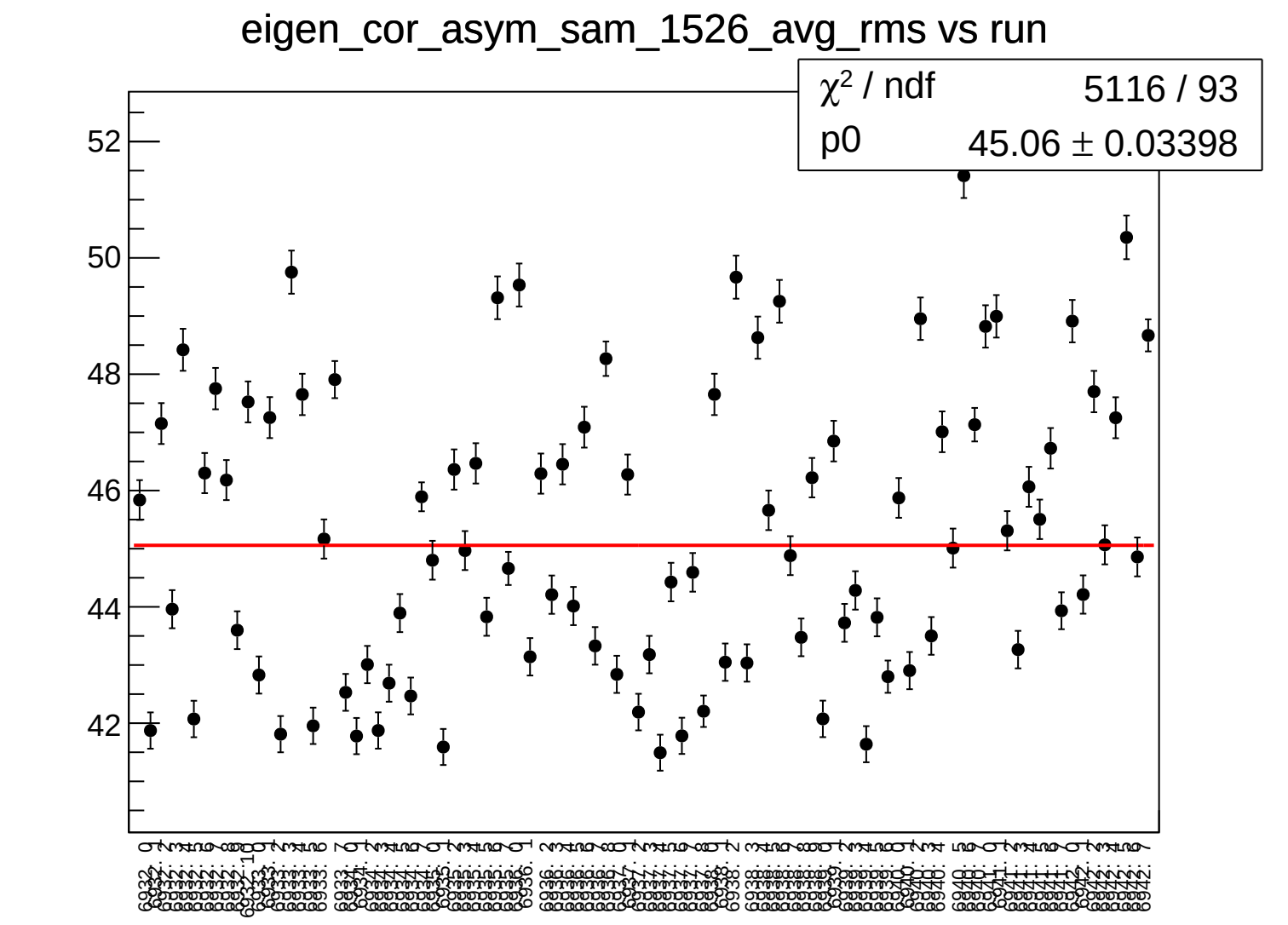

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 75.03 / 93
p0 −8.463 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 336
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

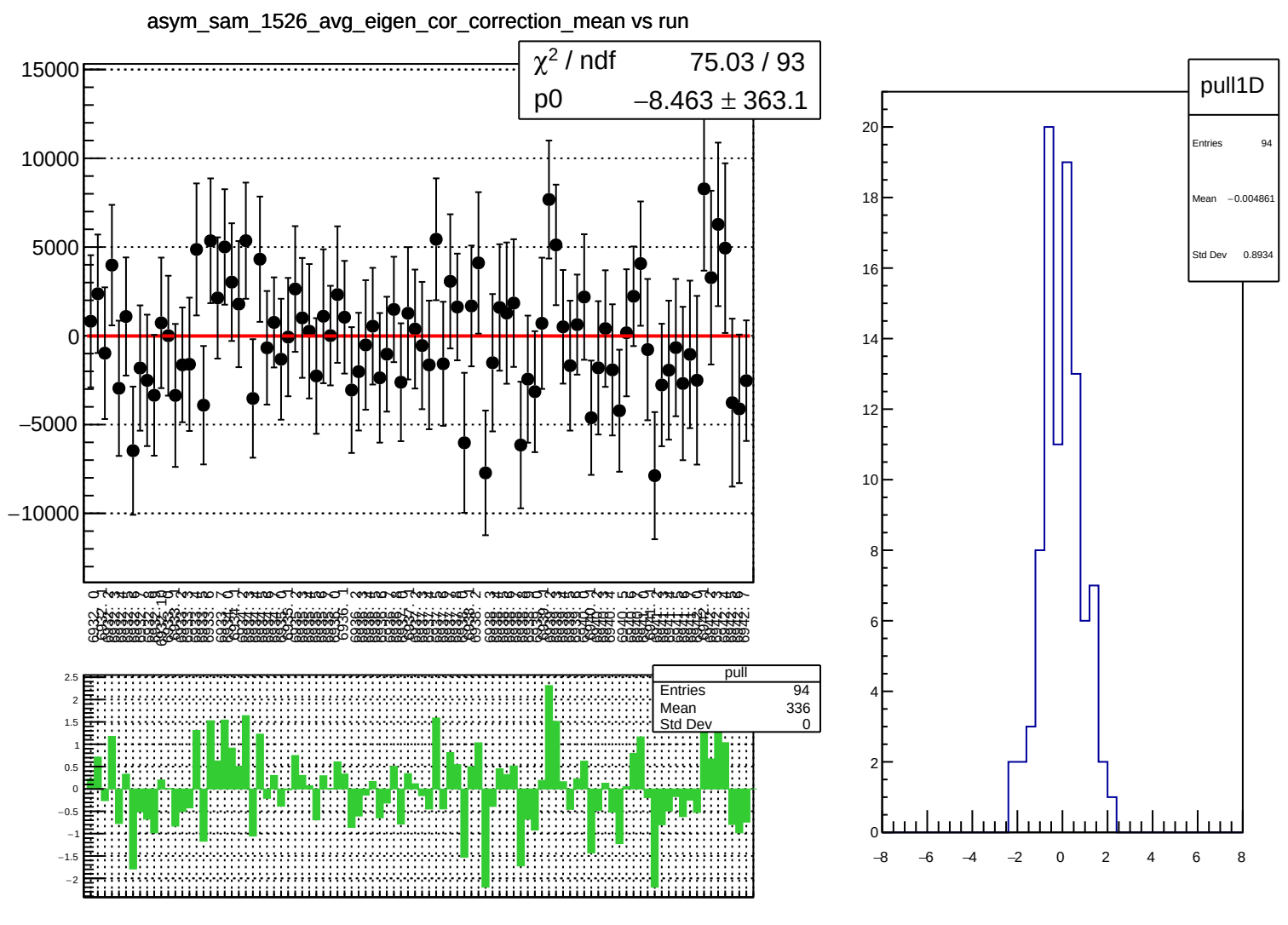

pull1D
Entries 94
Mean −0.004861
Std Dev 0.8934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

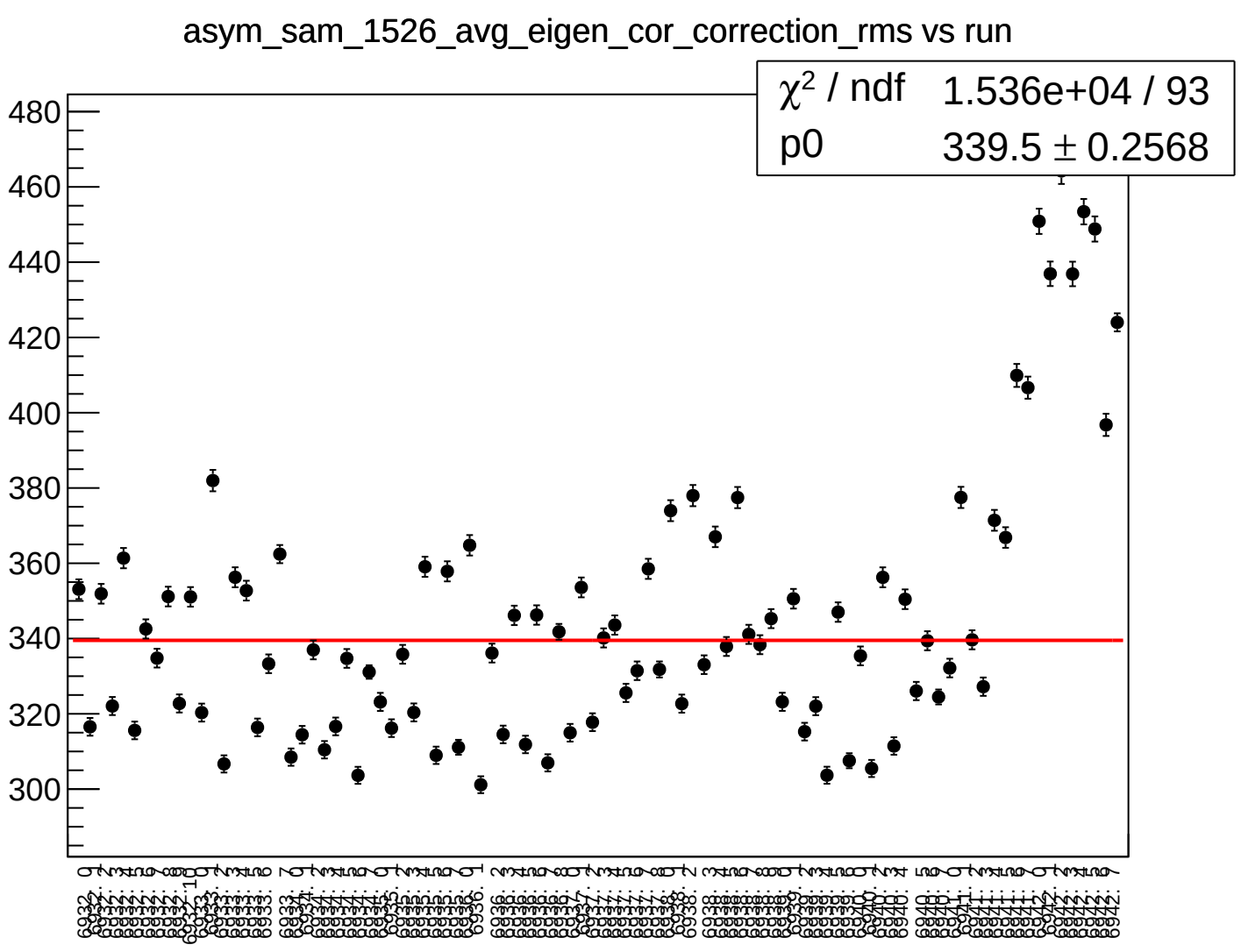

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 339.5 ± 0.2568
480
460
440
420
400
380
360
340
320
300

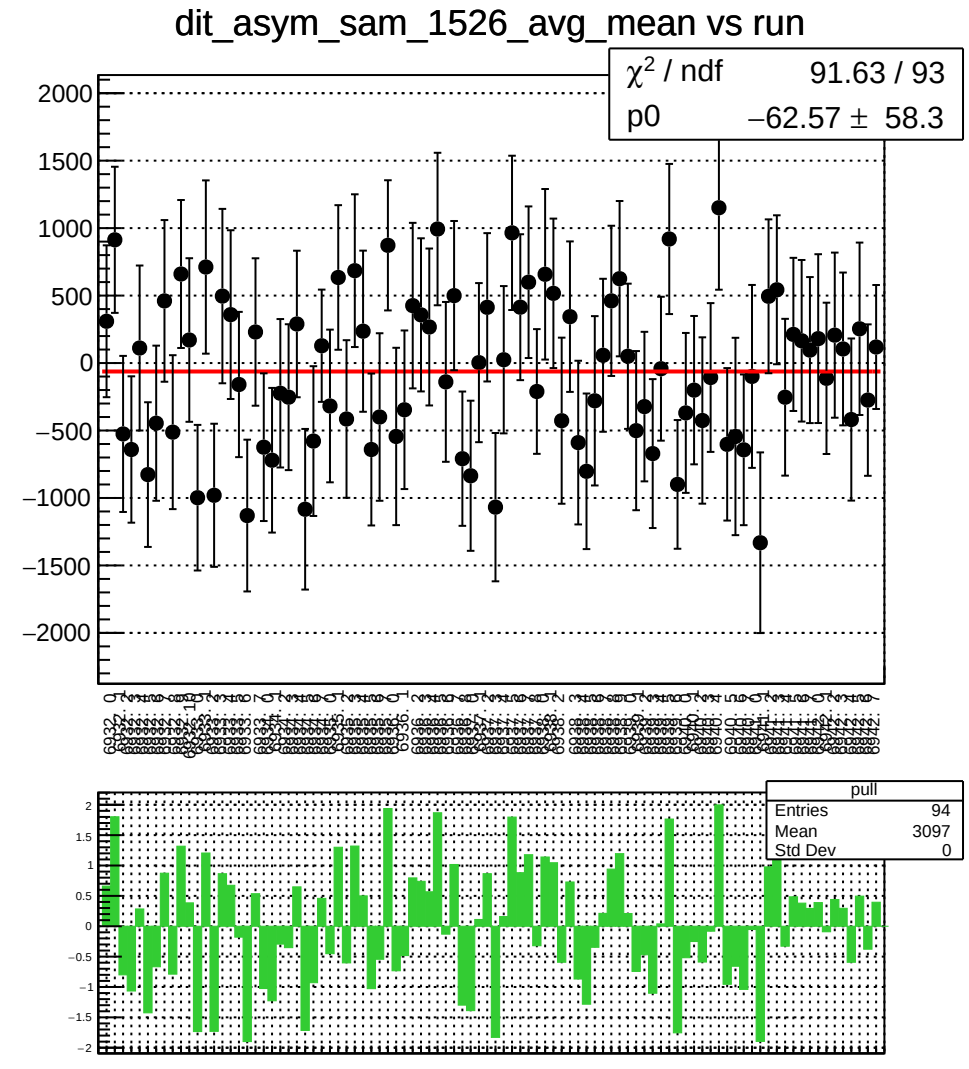

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 92.15 / 93
p0 −76.14 ± 48.05
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 200.9
Std Dev 0
3
2
1
0
−1
−2

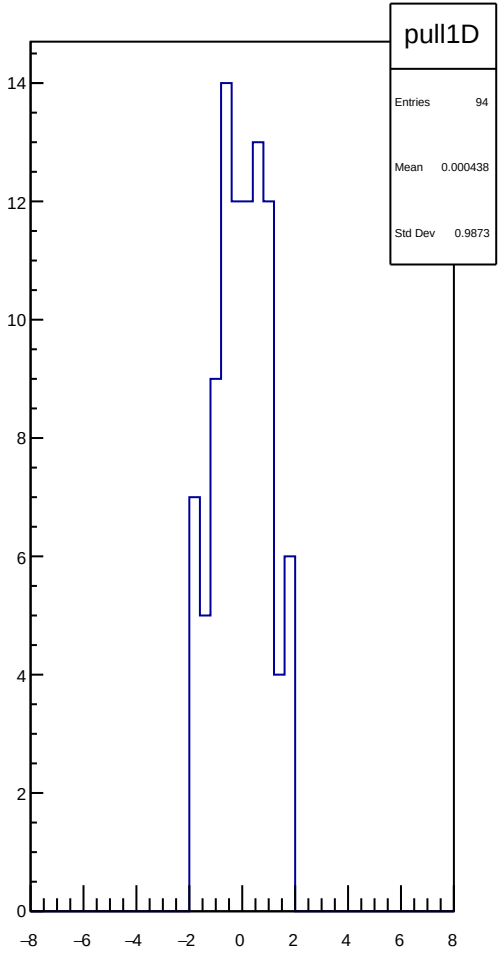

pull1D
Entries 94
Mean −0.004687
Std Dev 0.9901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

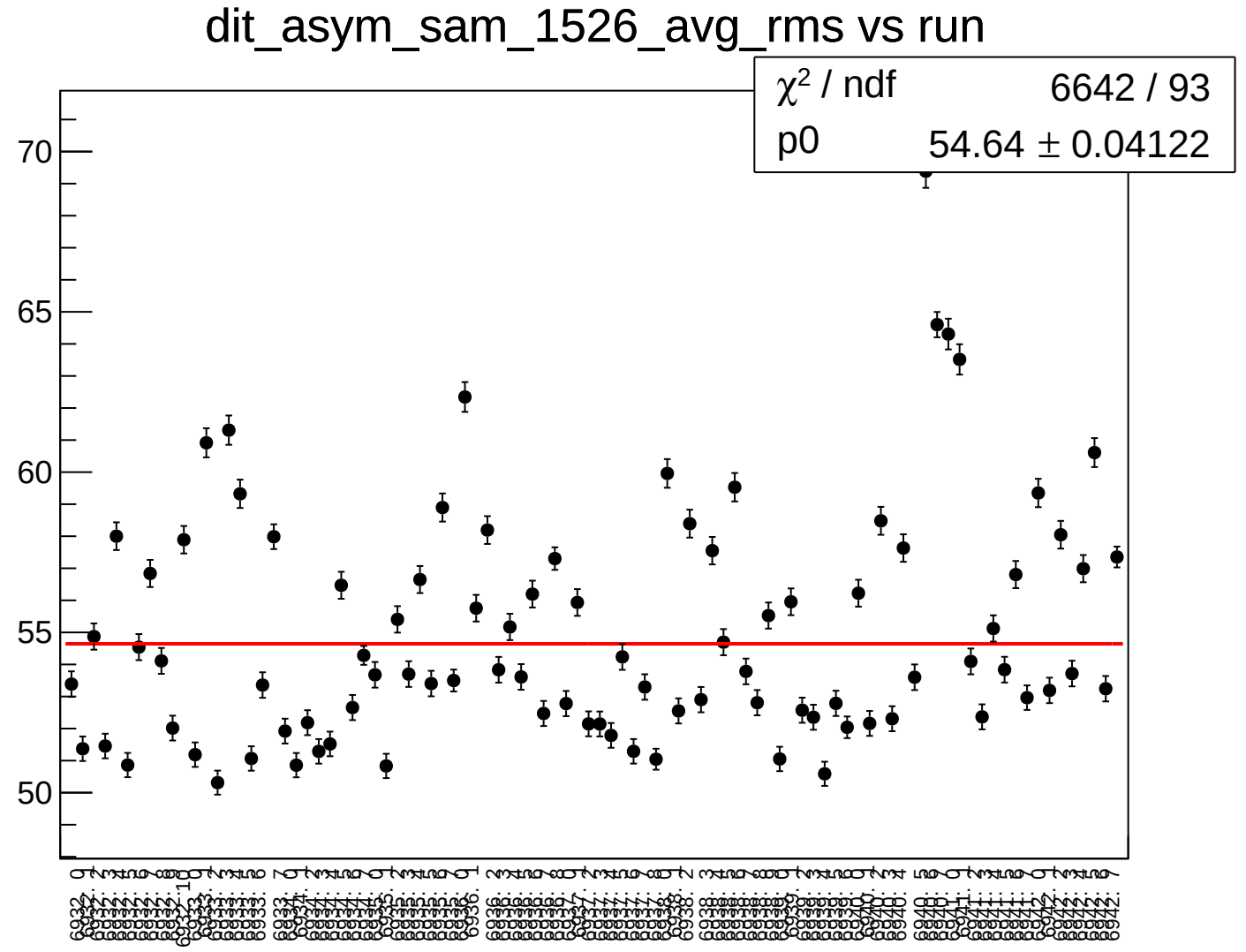

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 5116 / 93
p0 45.06 ± 0.03398
52
50
48
46
44
42

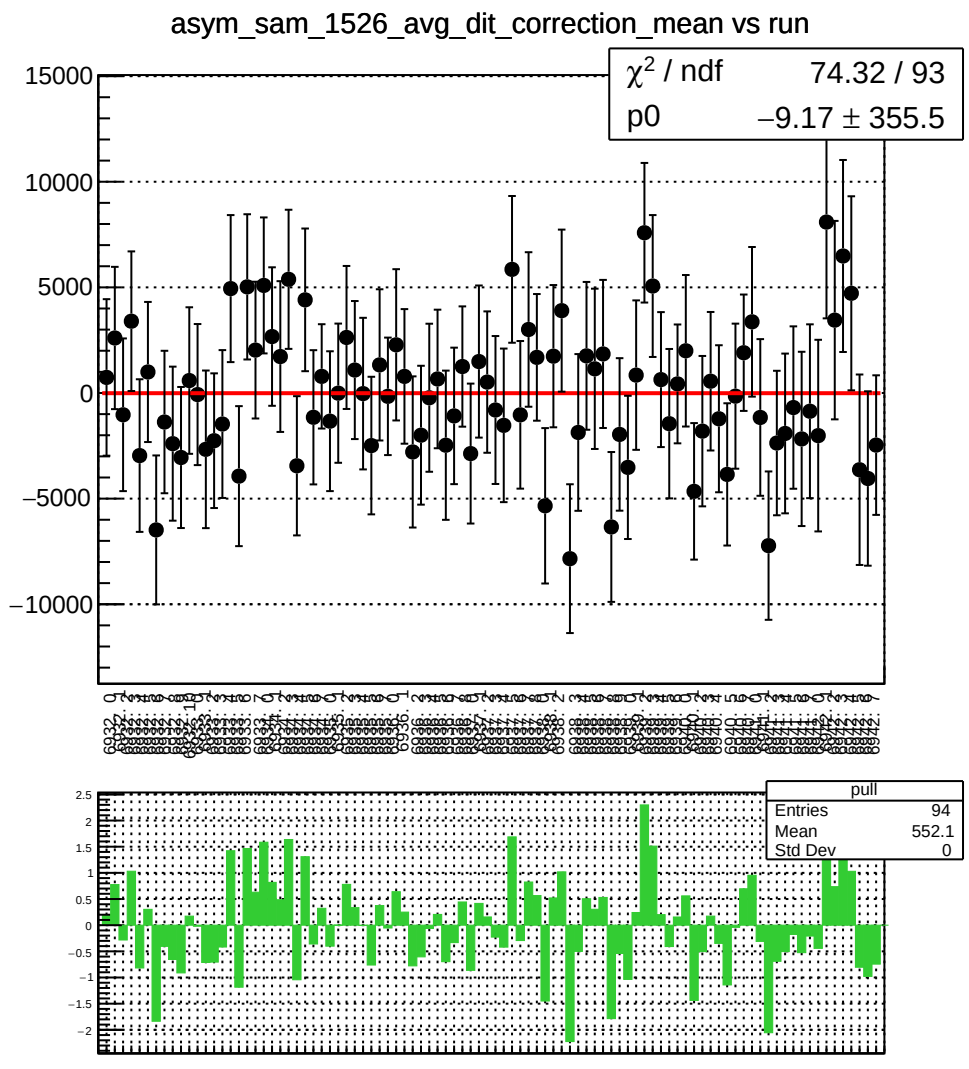

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.03 / 93
p0 −8.463 ± 363.1
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 336
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.004861
Std Dev 0.8934
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

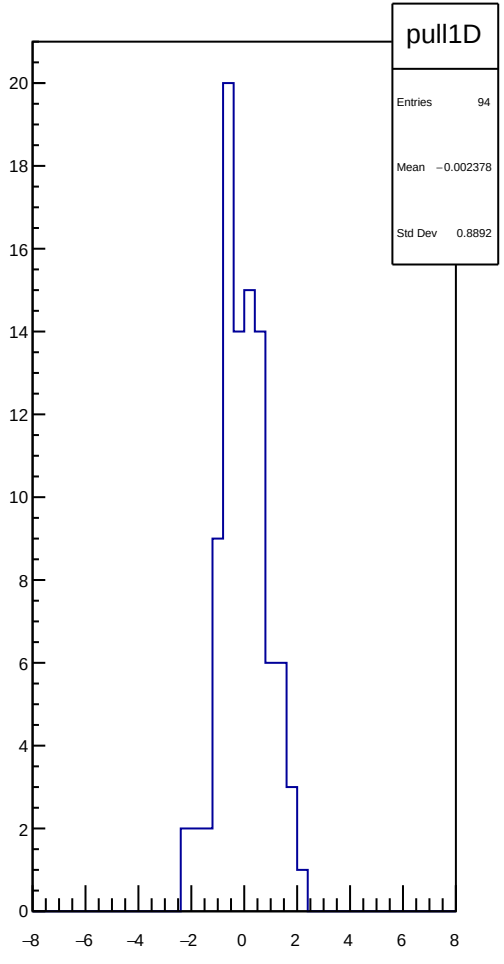

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.536e+04 / 93
p0 339.5 ± 0.2568
480
460
440
420
400
380
360
340
320
300

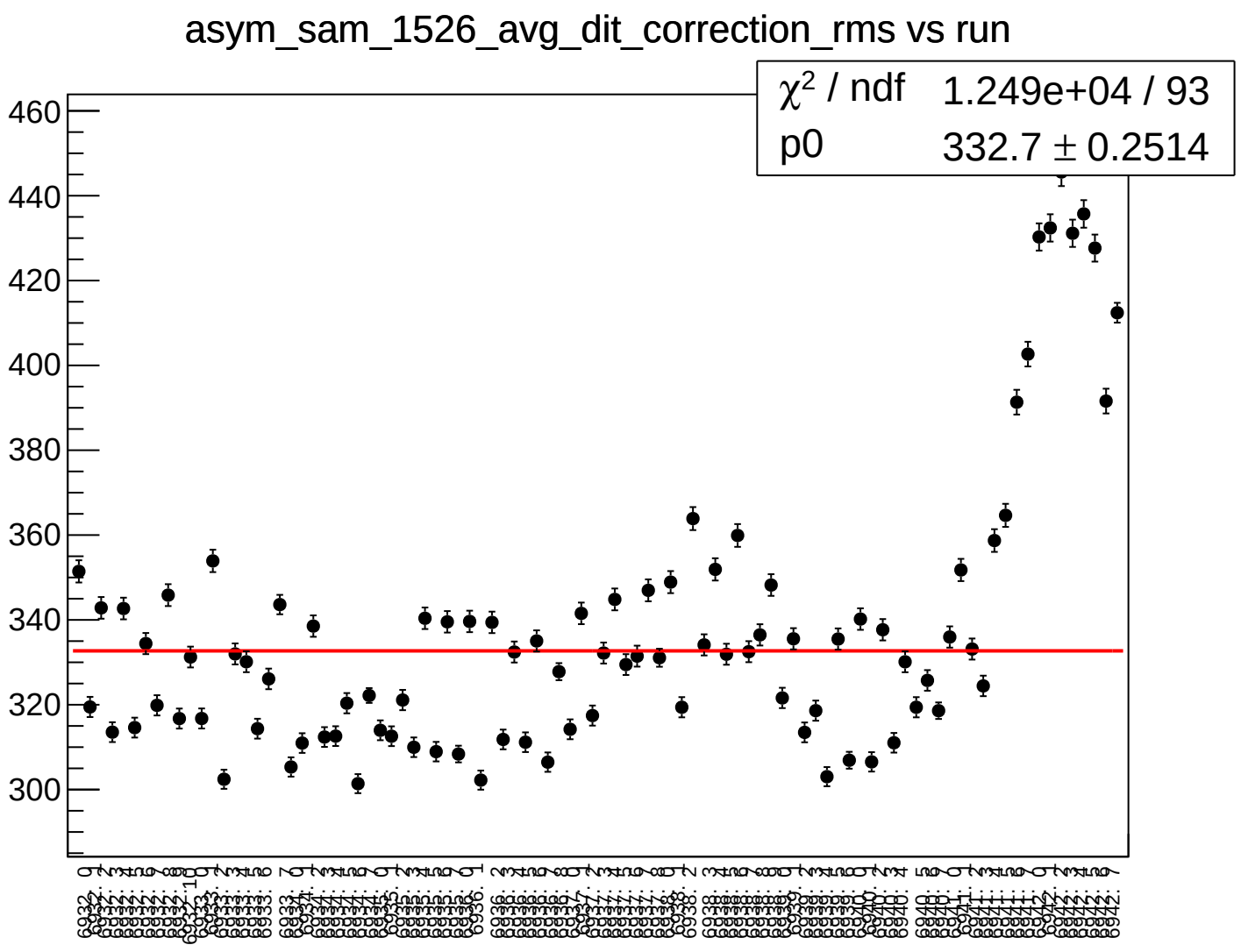

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 91.63 / 93
p0 −62.57 ± 58.3
pull
Entries 94
Mean 3097
Std Dev 0

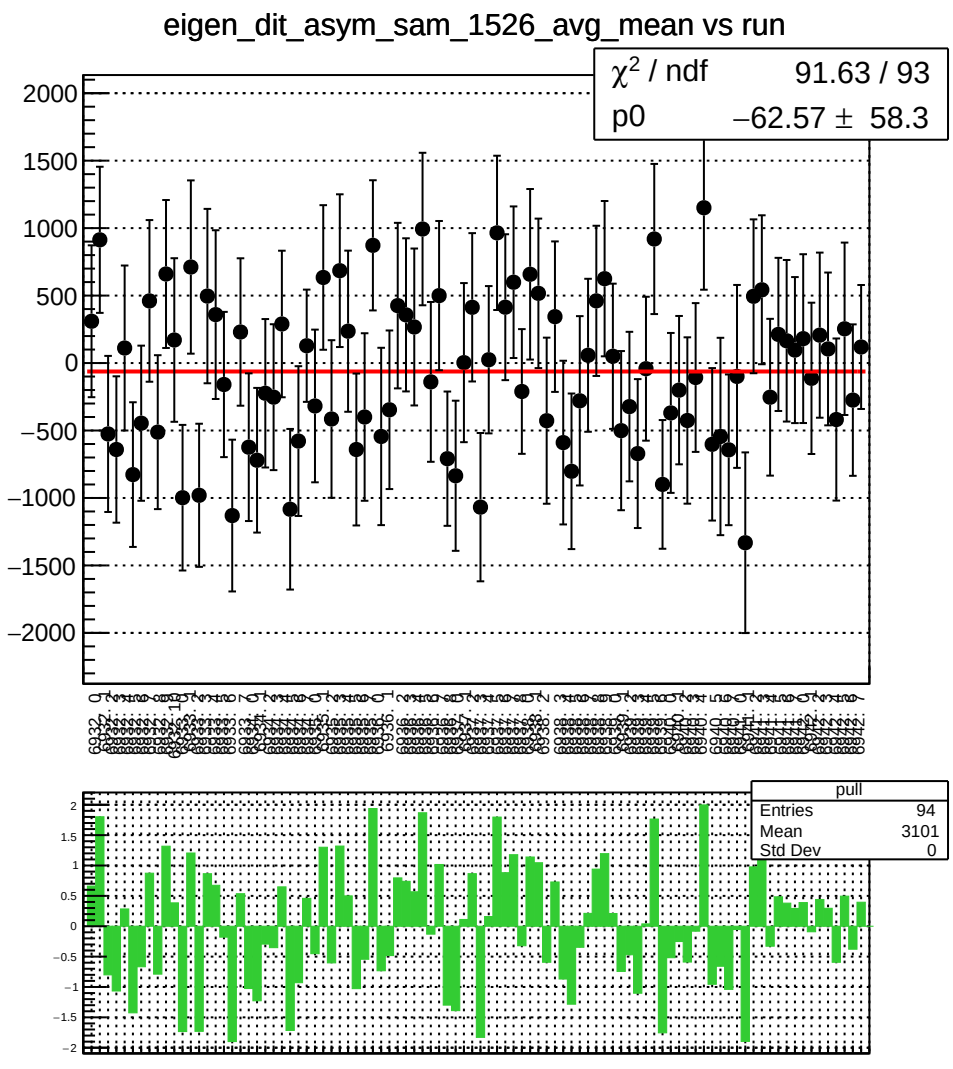

pull1D
Entries 94
Mean 0.000438
Std Dev 0.9873

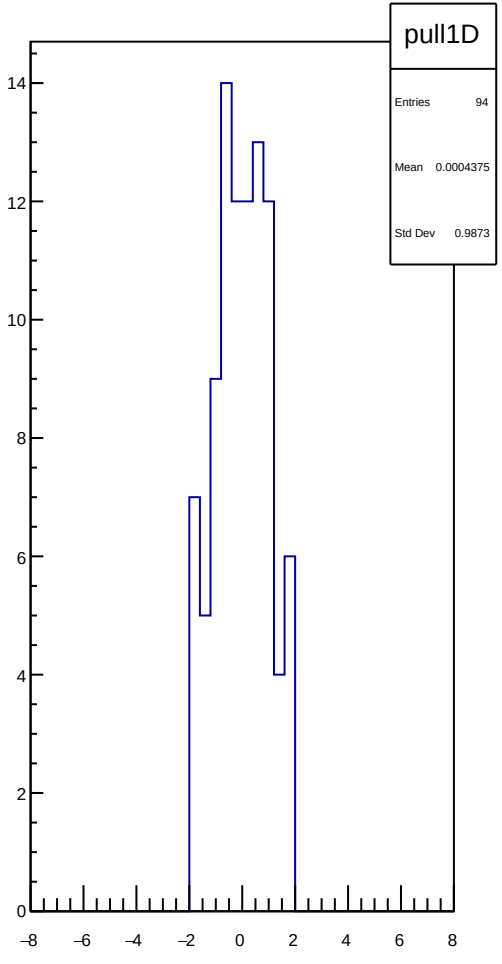

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6642 / 93
p0 54.64 ± 0.04122
70
65
60
55
50

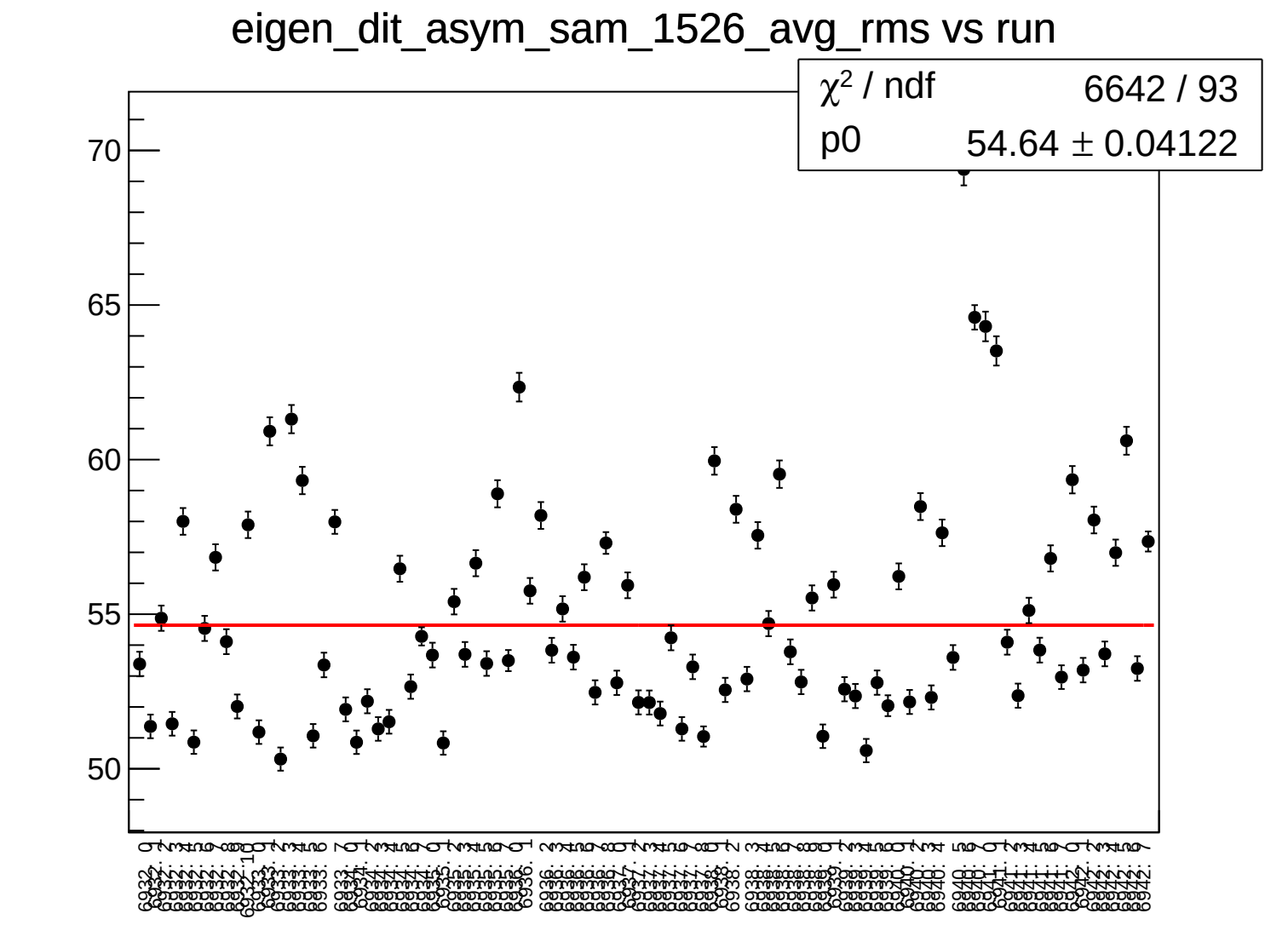

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 74.32 / 93
p0 −9.17 ± 355.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 552.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

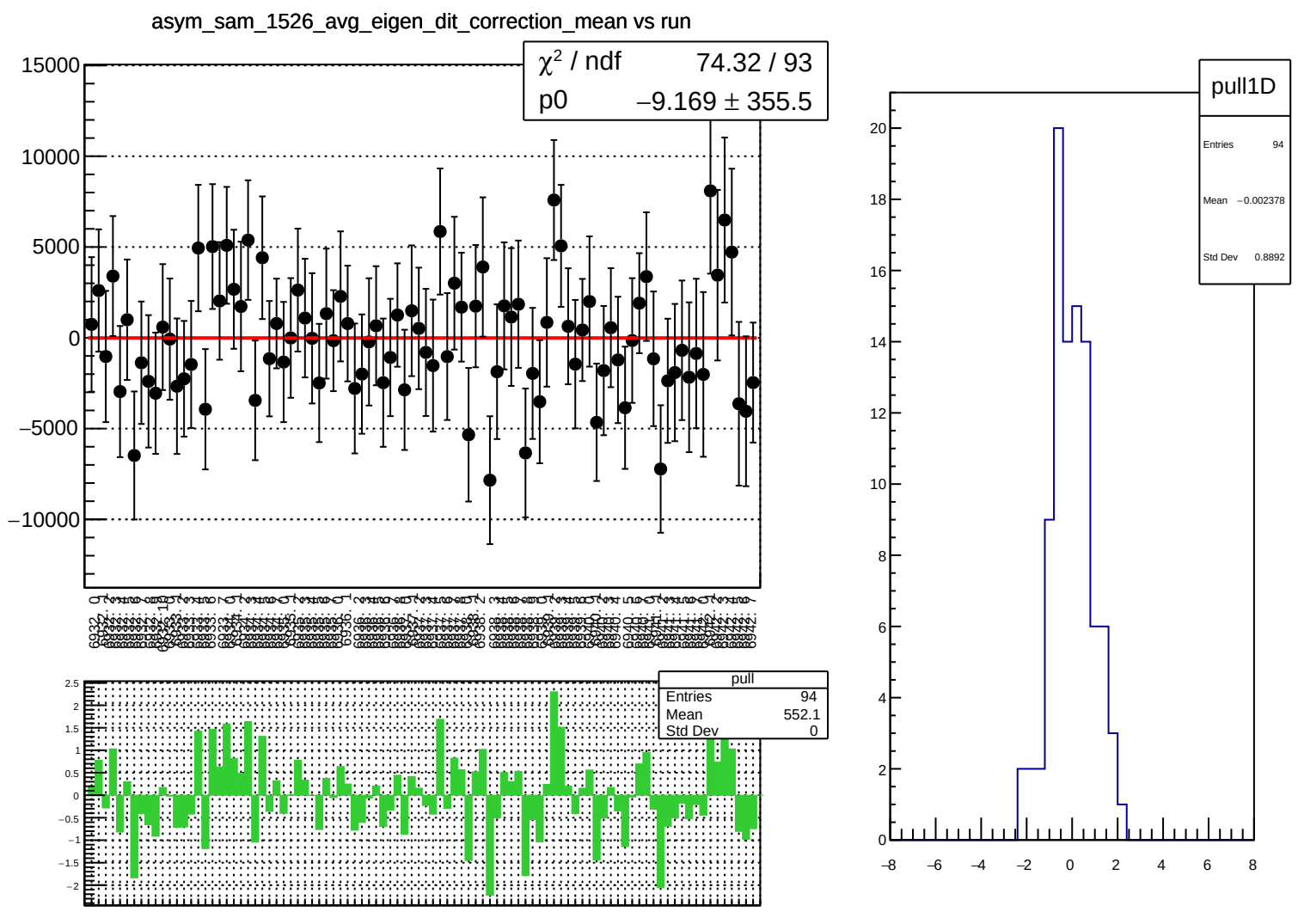

pull1D
Entries 94
Mean −0.002378
Std Dev 0.8892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

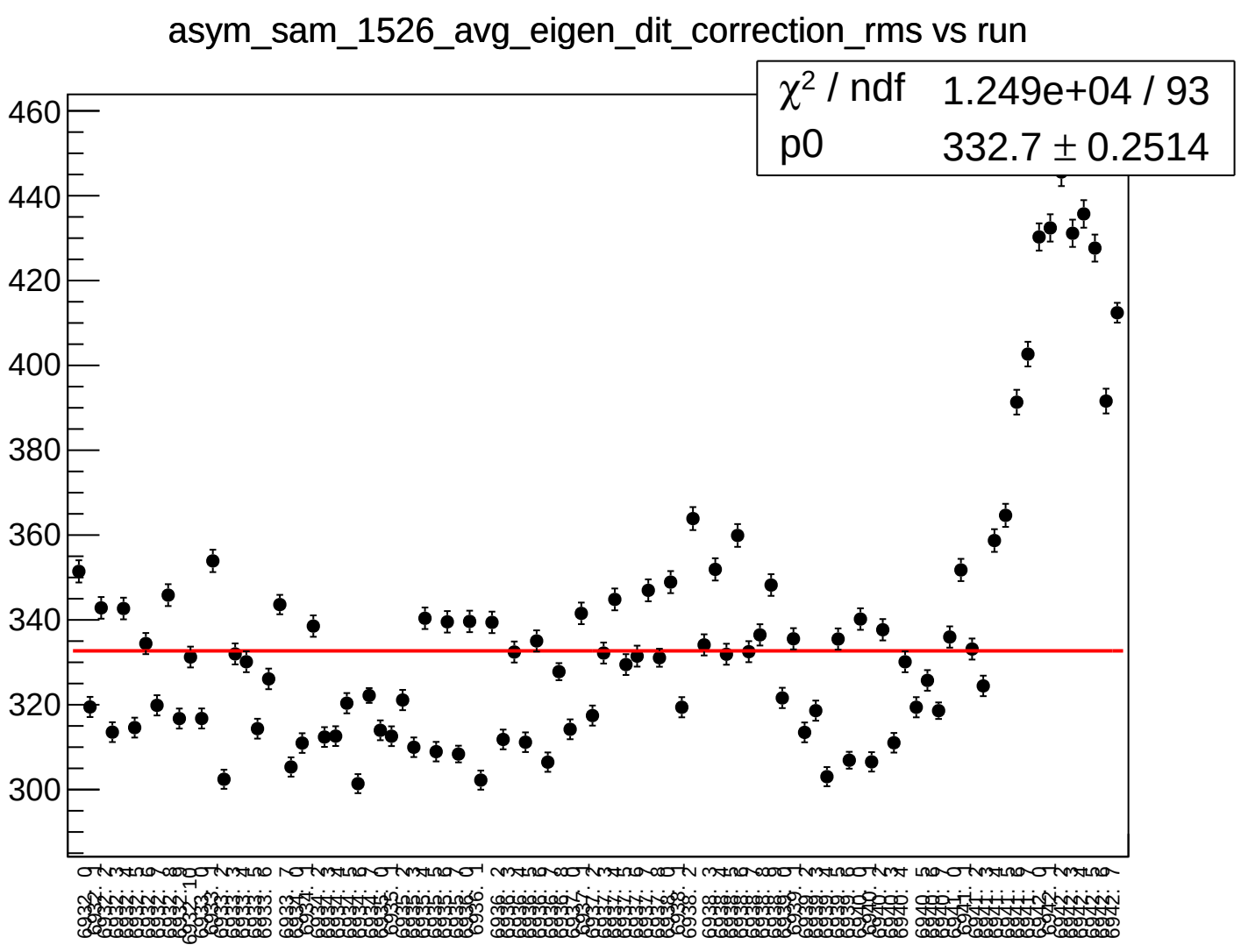

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 93
p0 332.7 ± 0.2514
460
440
420
400
380
360
340
320
300

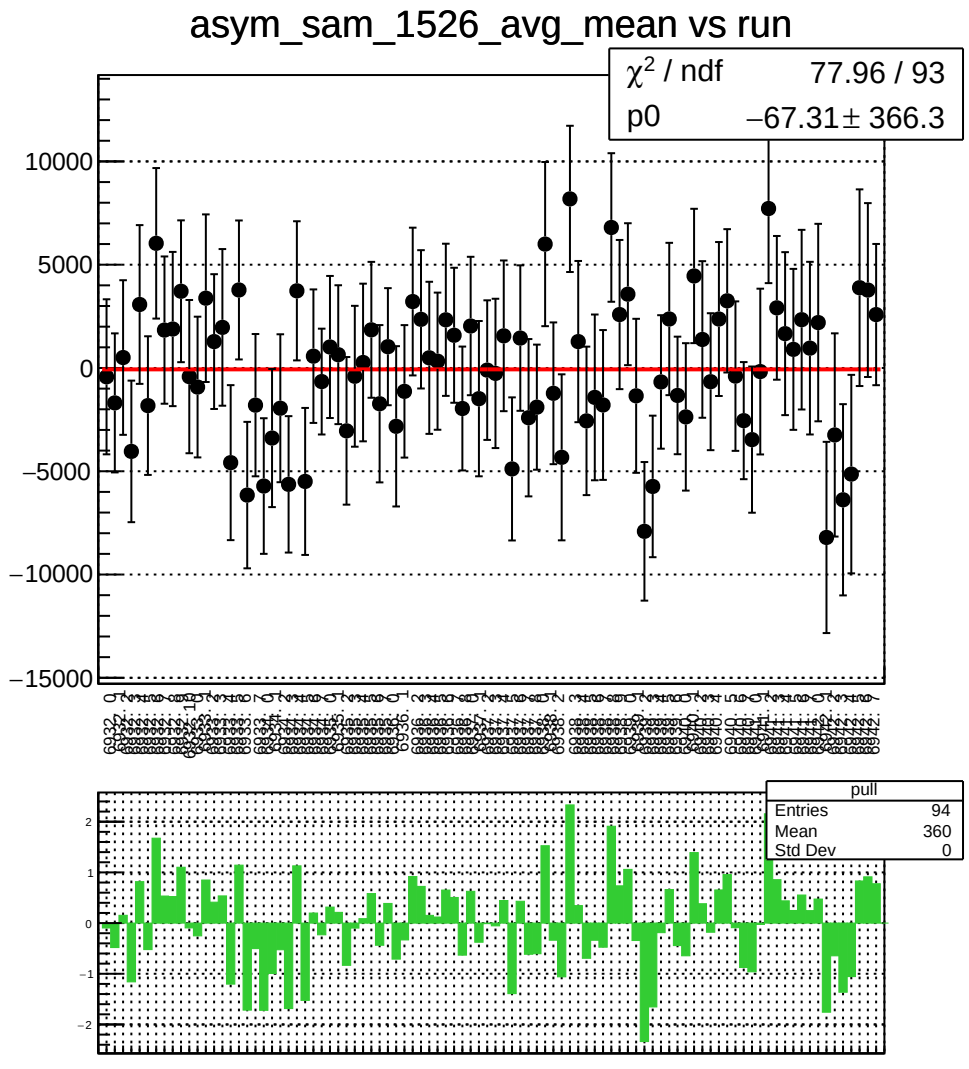

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 91.63 / 93
p0 −62.57 ± 58.3
pull
Entries 94
Mean 3101
Std Dev 0

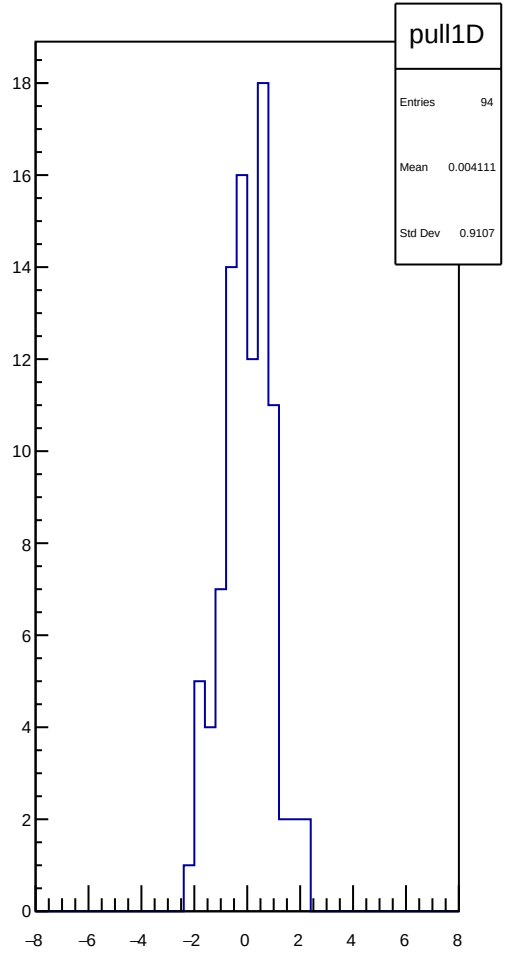

pull1D
Entries 94
Mean 0.0004375
Std Dev 0.9873

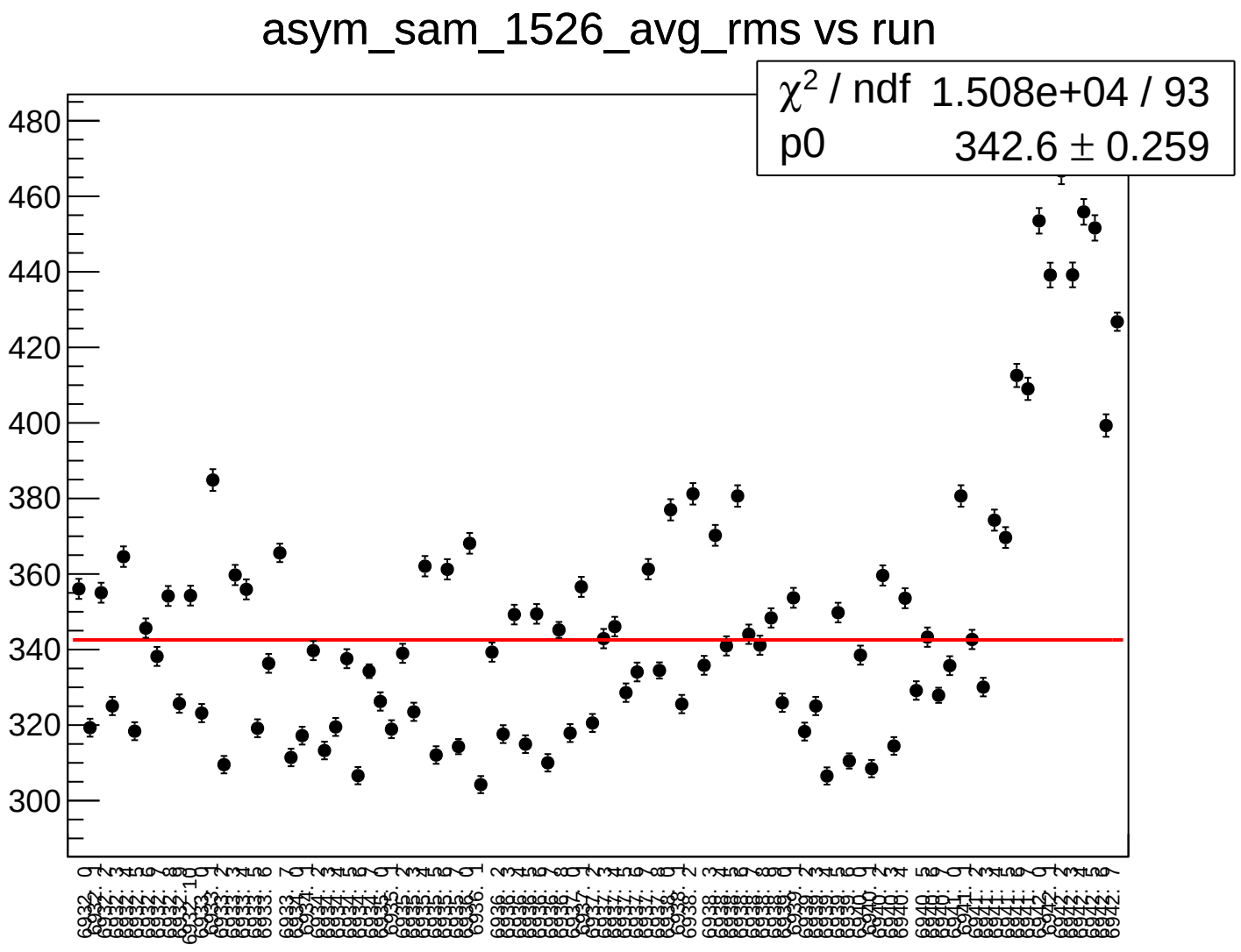

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 6642 / 93
p0 54.64 ± 0.04122
70
65
60
55
50

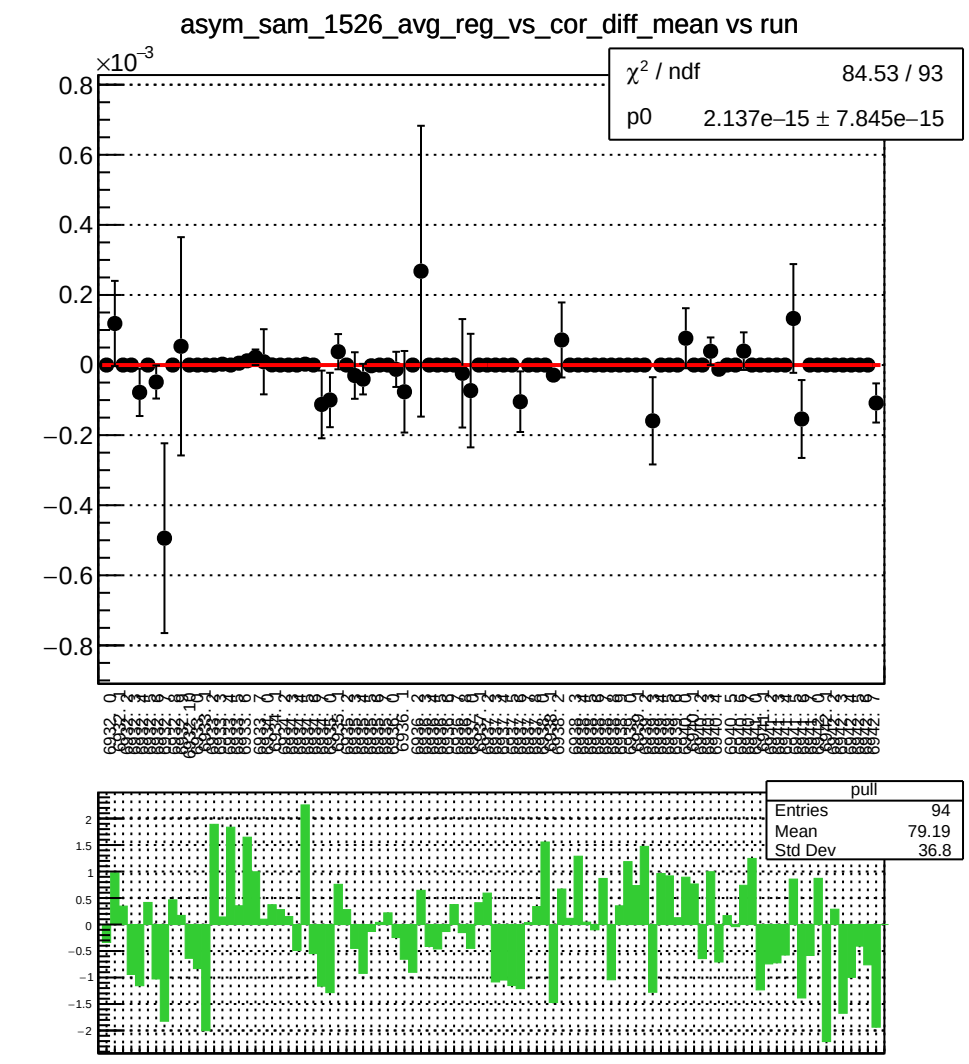

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.32 / 93
p0 −9.169 ± 355.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 552.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.002378
Std Dev 0.8892
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

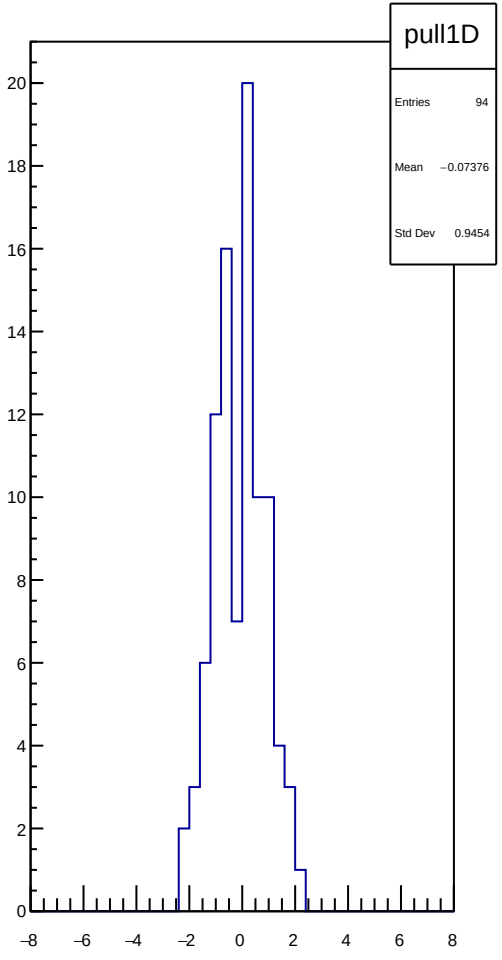

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.249e+04 / 93
p0 332.7 ± 0.2514
460
440
420
400
380
360
340
320
300

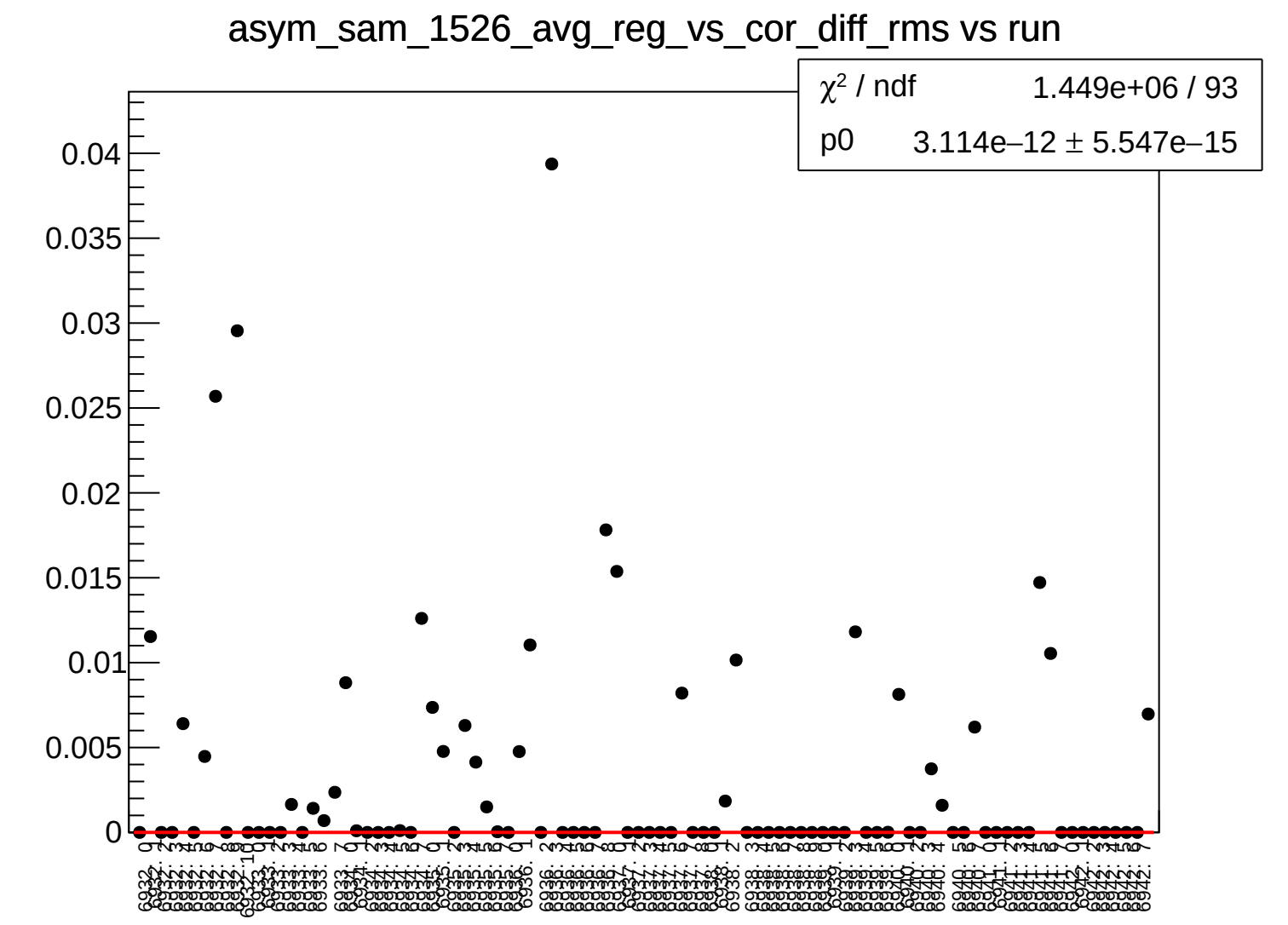

asym_sam_1526_avg_mean vs run
χ² / ndf 77.96 / 93
p0 −67.31 ± 366.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 360
Std Dev 0
2
1
0
−1
−2

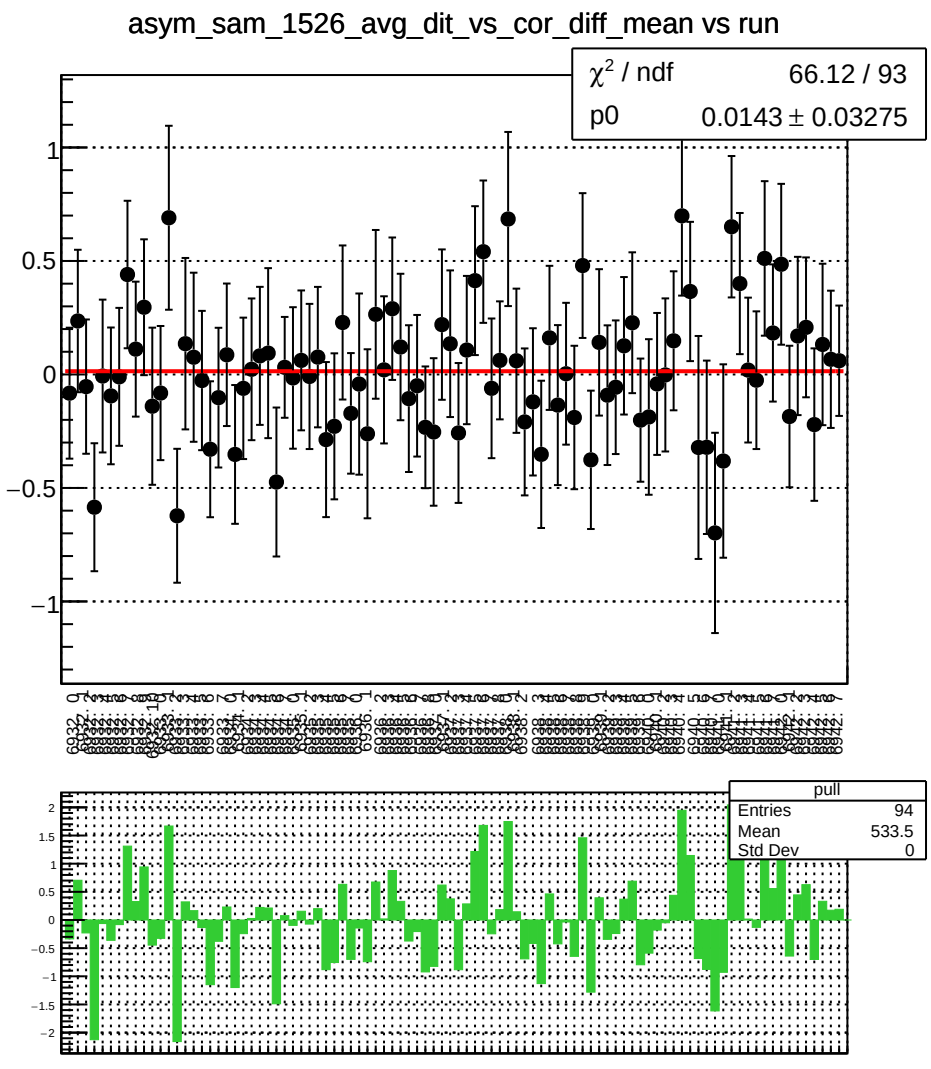

pull1D
Entries 94
Mean 0.004111
Std Dev 0.9107
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

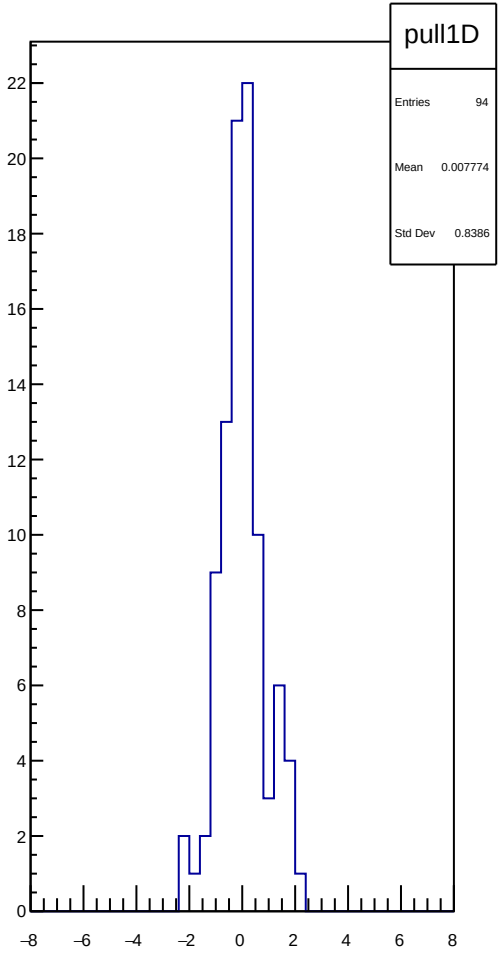

asym_sam_1526_avg_rms vs run
χ² / ndf 1.508e+04 / 93
p0 342.6 ± 0.259
480
460
440
420
400
380
360
340
320
300

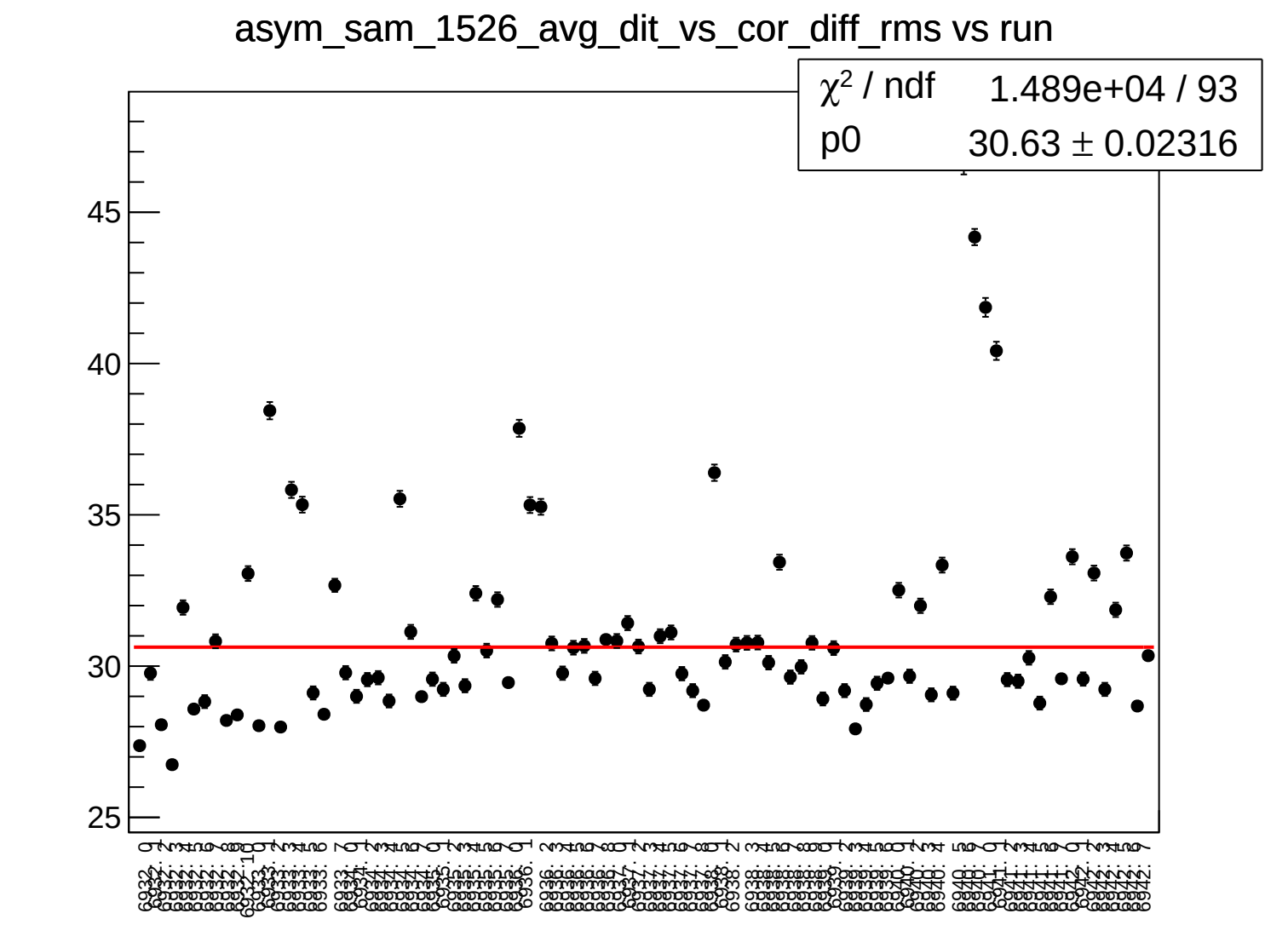

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.53 / 93
p0 2.137e−15 ± 7.845e−15
pull
Entries 94
Mean 79.19
Std Dev 36.8

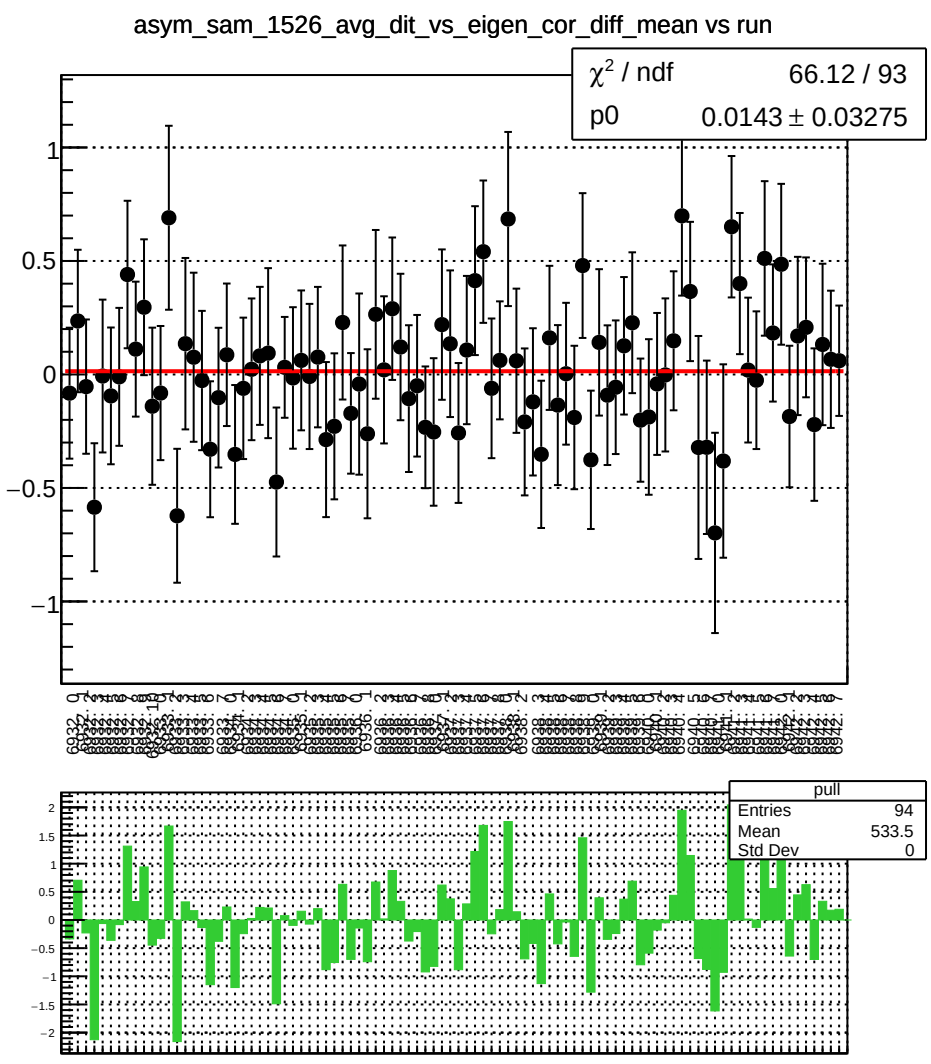

pull1D
Entries 94
Mean −0.07376
Std Dev 0.9454

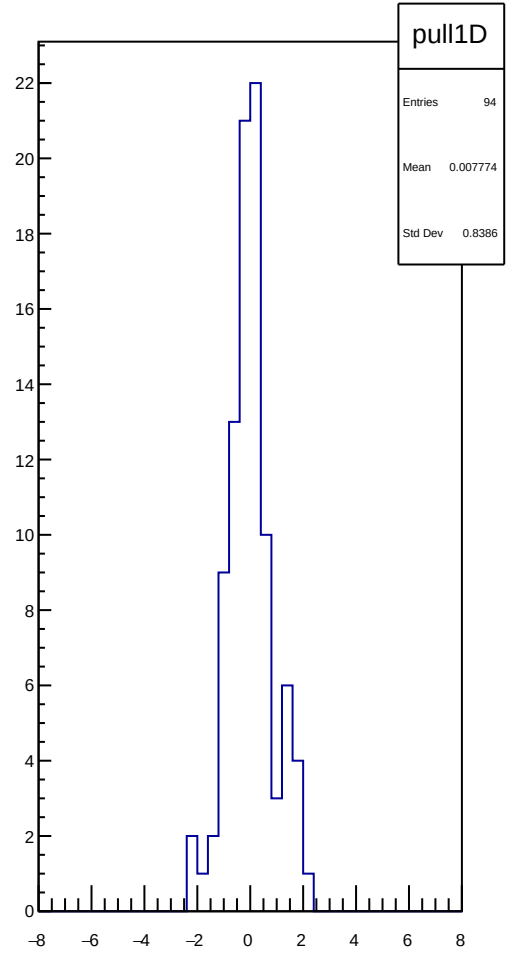

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.449e+06 / 93
p0 3.114e−12 ± 5.547e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

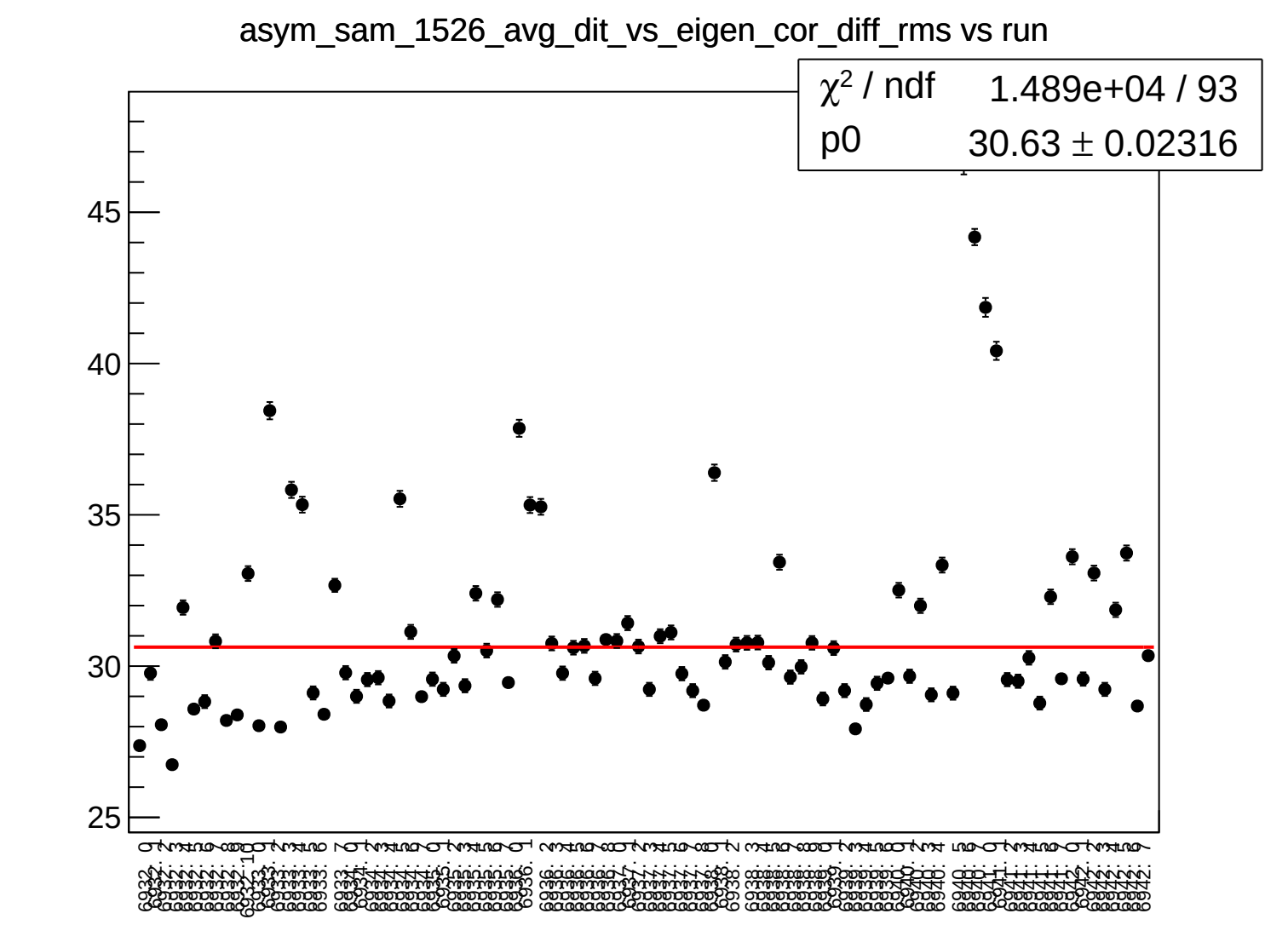

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 66.12 / 93
p0 0.0143 ± 0.03275
pull
Entries 94
Mean 533.5
Std Dev 0

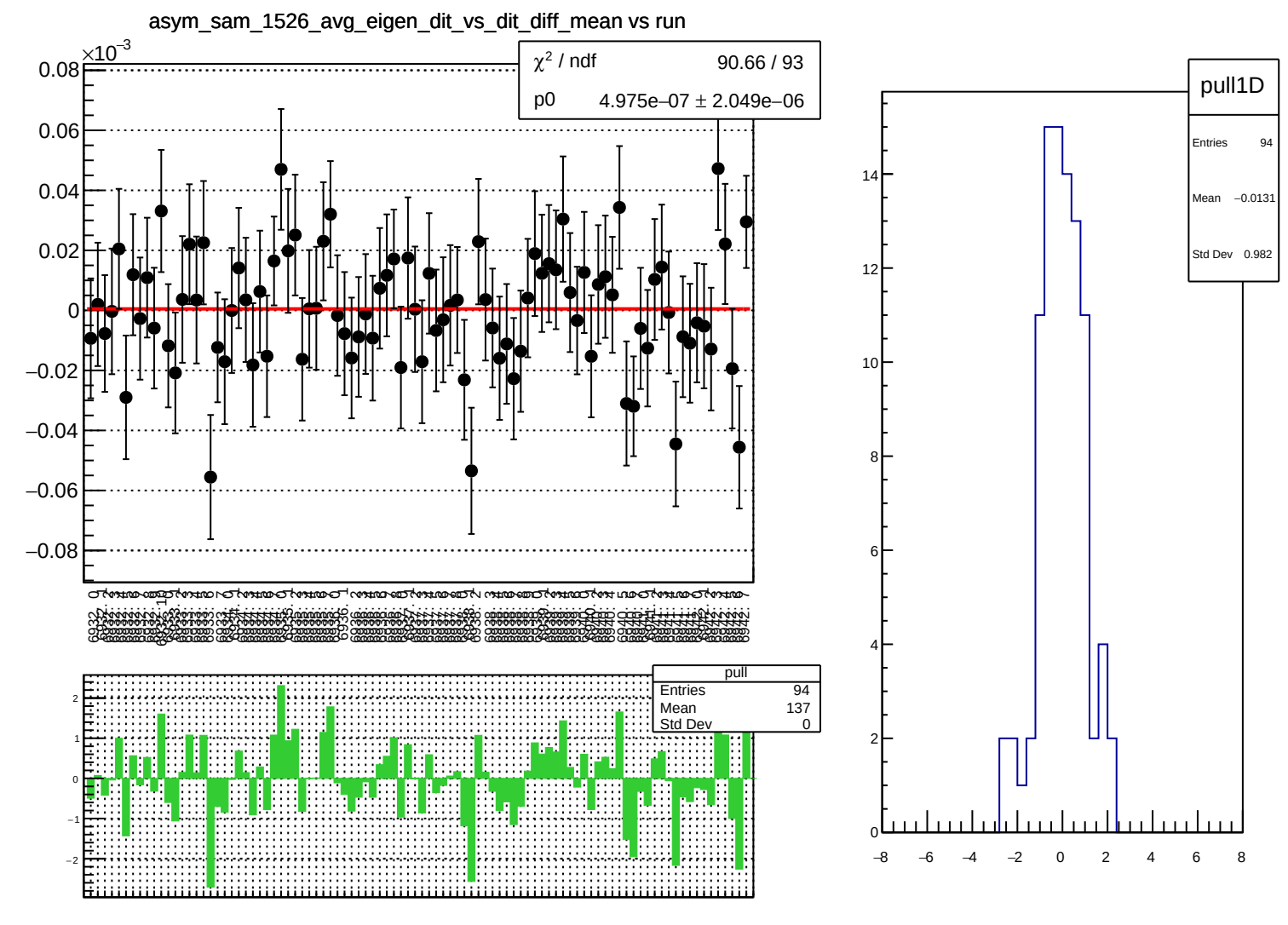

pull1D
Entries 94
Mean 0.007774
Std Dev 0.8386

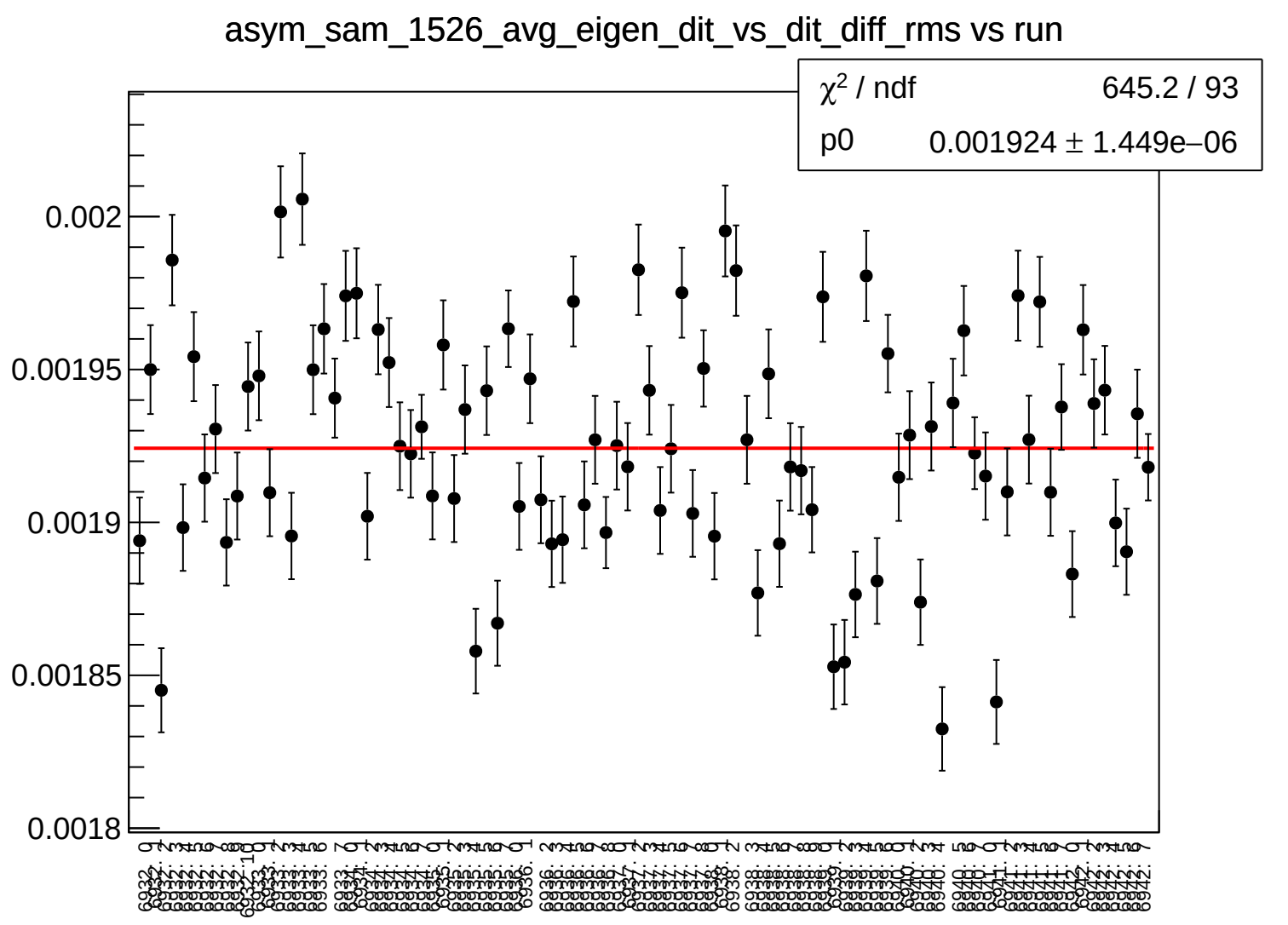

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 93
p0 30.63 ± 0.02316
45
40
35
30
25

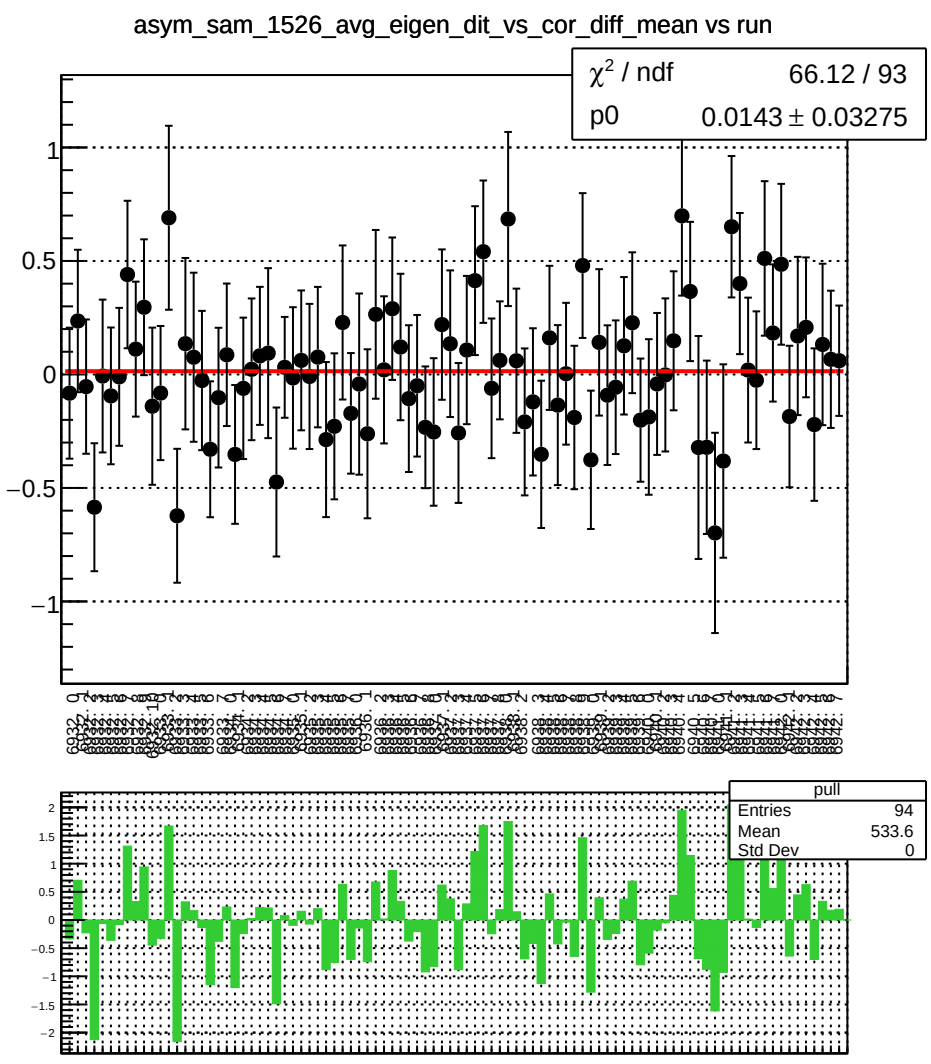

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.12 / 93
p0 0.0143 ± 0.03275
pull
Entries 94
Mean 533.5
Std Dev 0

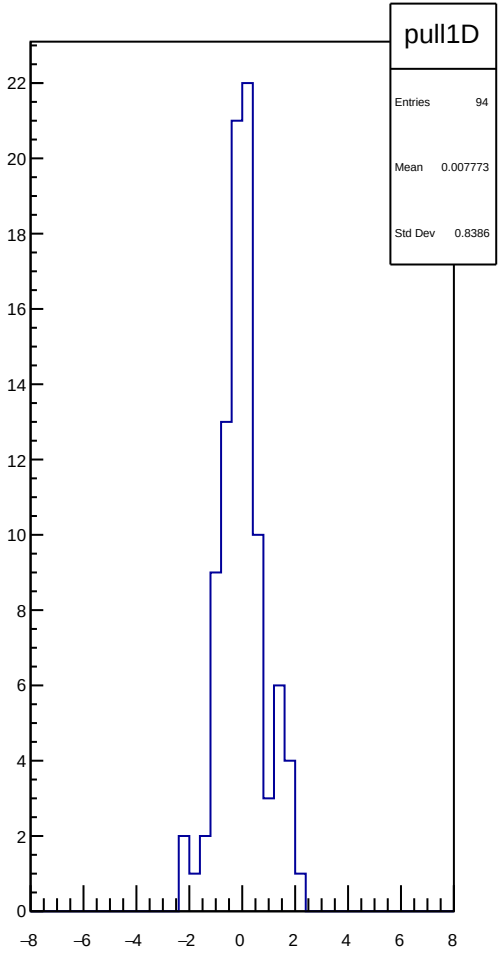

pull1D
Entries 94
Mean 0.007774
Std Dev 0.8386

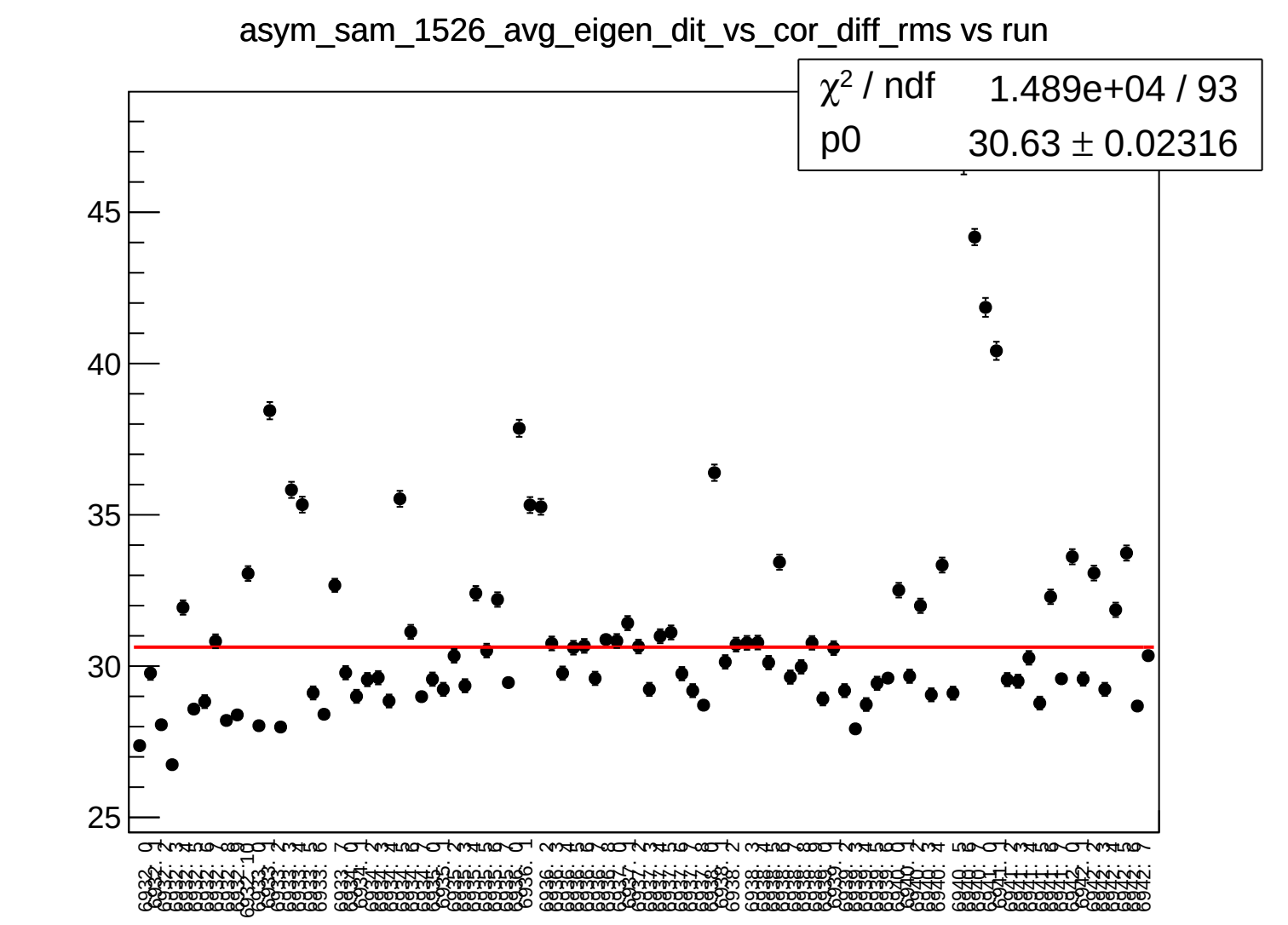

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 93
p0 30.63 ± 0.02316
45
40
35
30
25

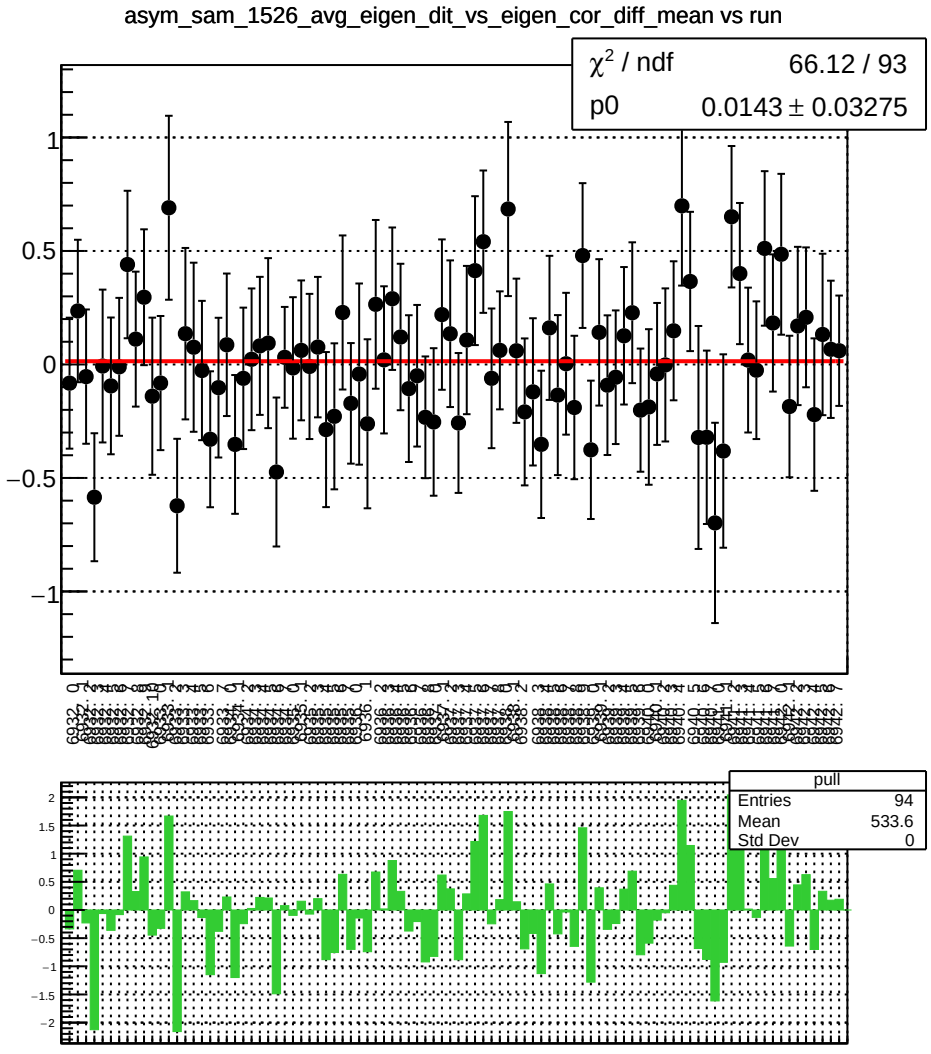

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.66 / 93
p0 4.975e−07 ± 2.049e−06
pull
Entries 94
Mean 137
Std Dev 0
pull1D
Entries 94
Mean −0.0131
Std Dev 0.982

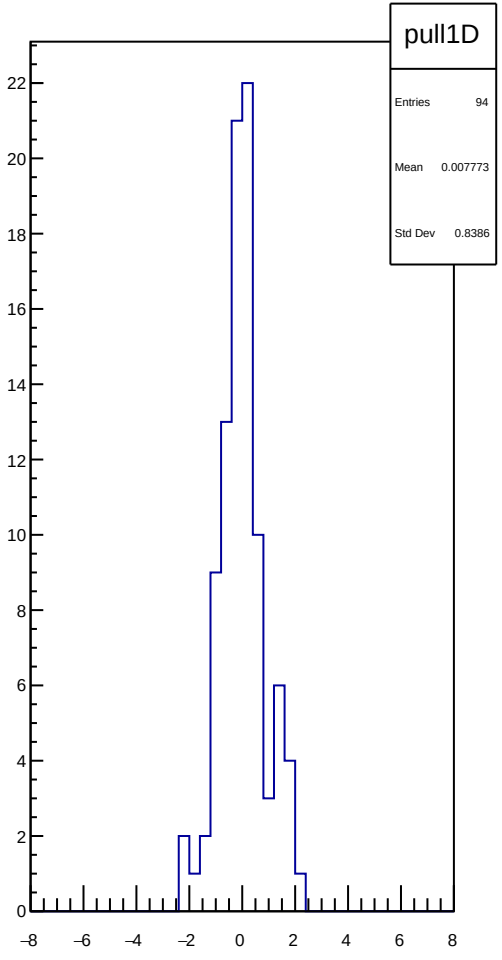

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 645.2 / 93
p0 0.001924 ± 1.449e−06
0.002
0.00195
0.0019
0.00185
0.0018

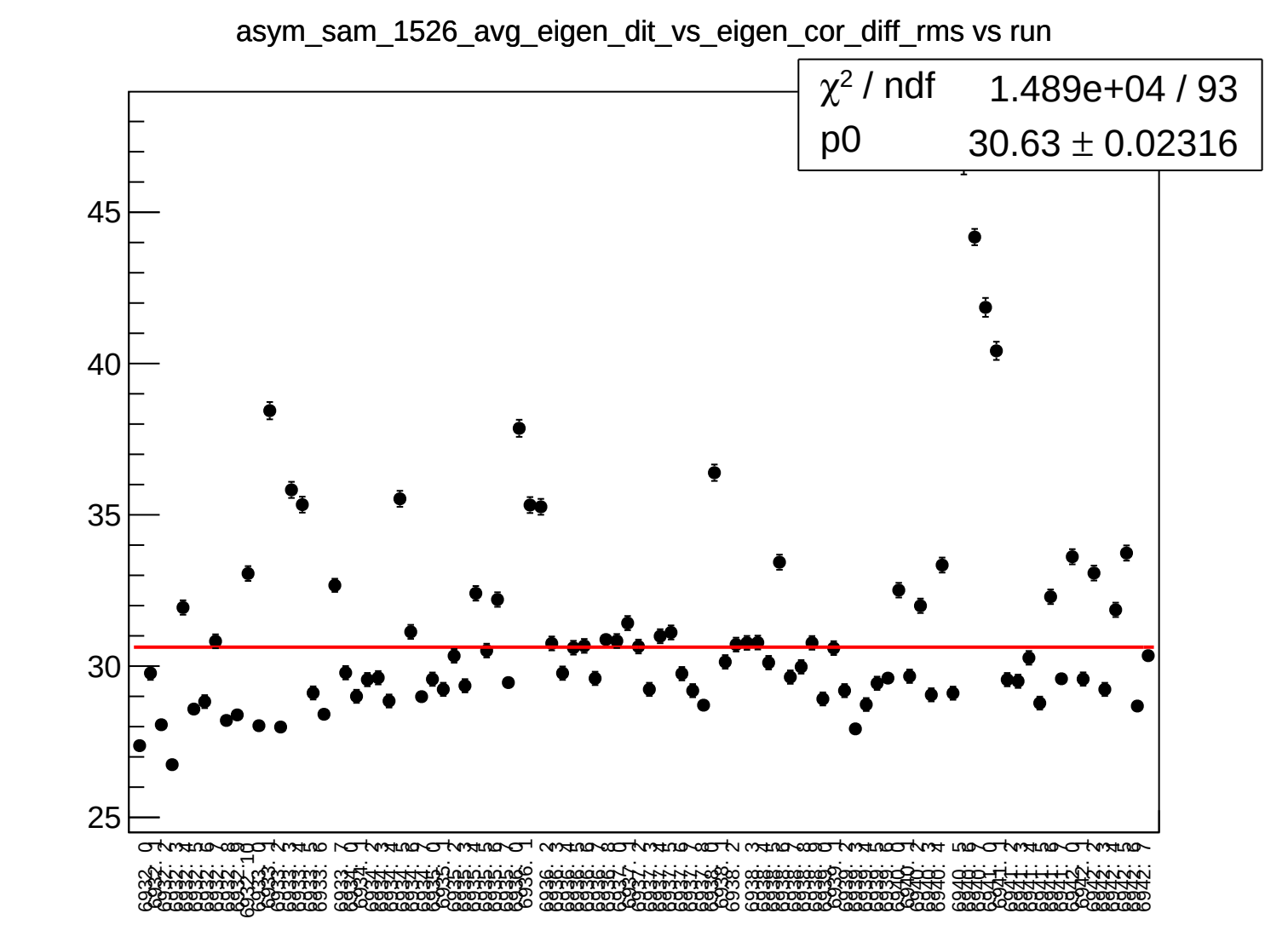

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.12 / 93
p0 0.0143 ± 0.03275
pull
Entries 94
Mean 533.6
Std Dev 0

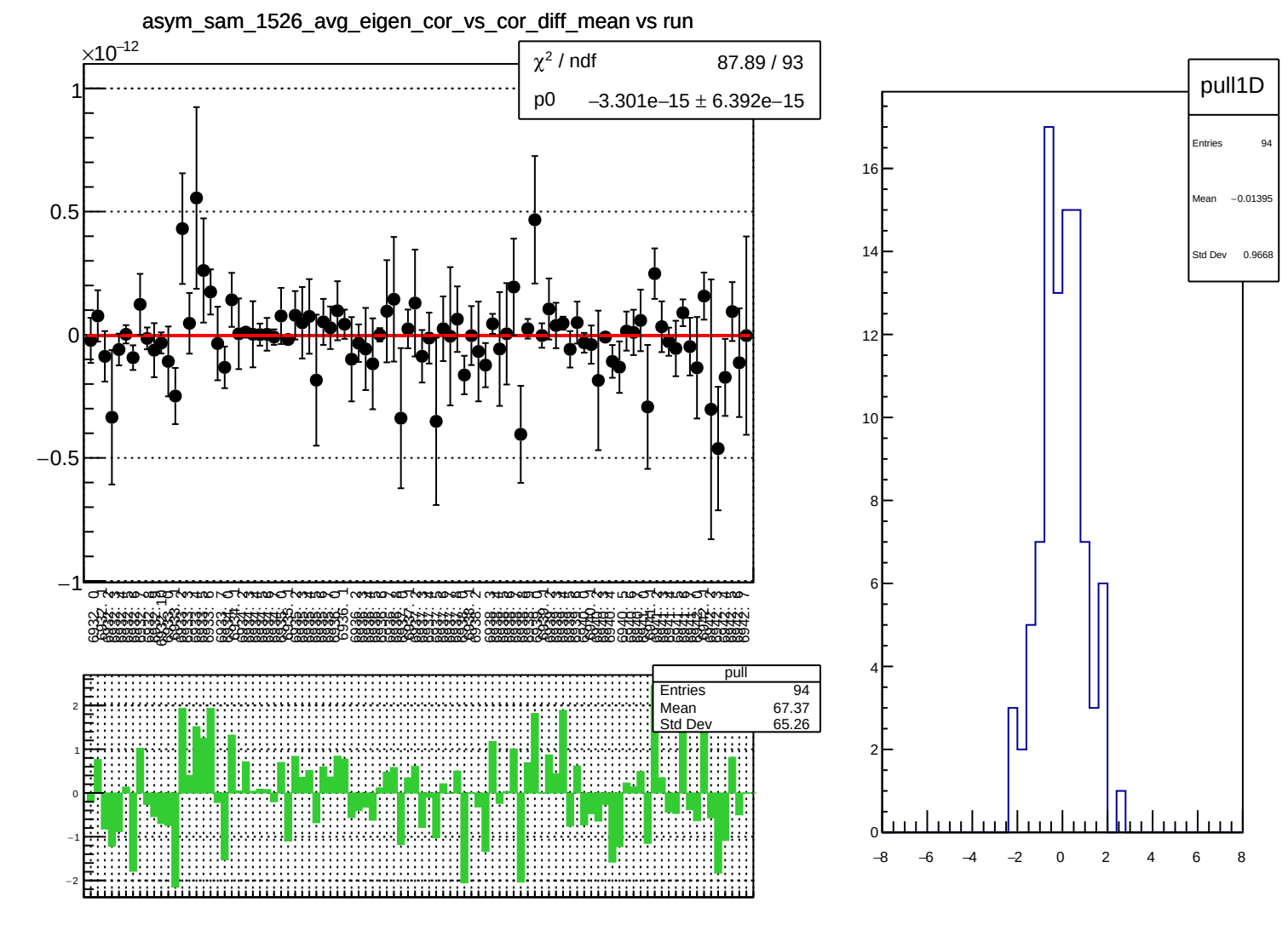

pull1D
Entries 94
Mean 0.007773
Std Dev 0.8386

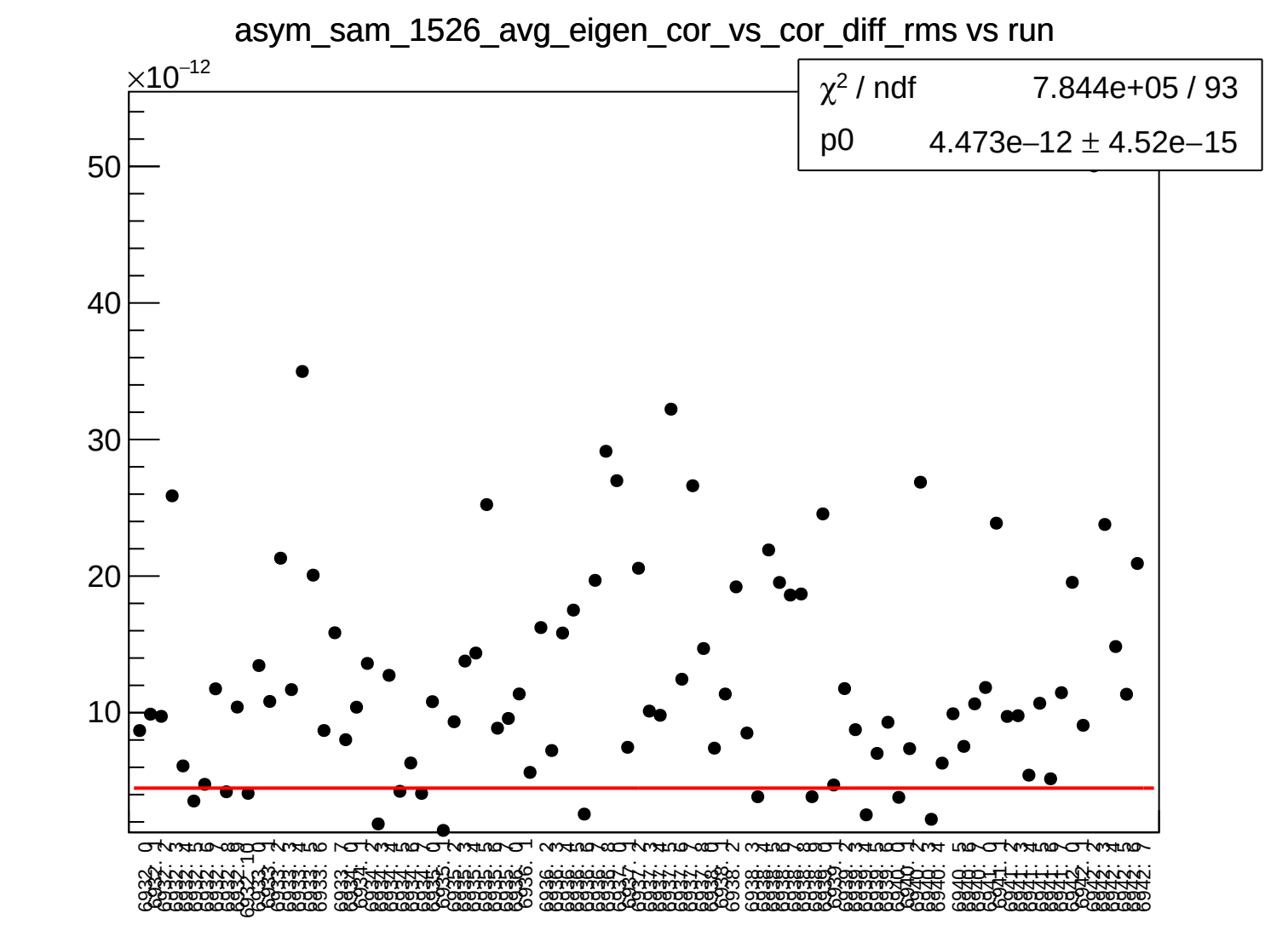

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 93
p0 30.63 ± 0.02316
45
40
35
30
25

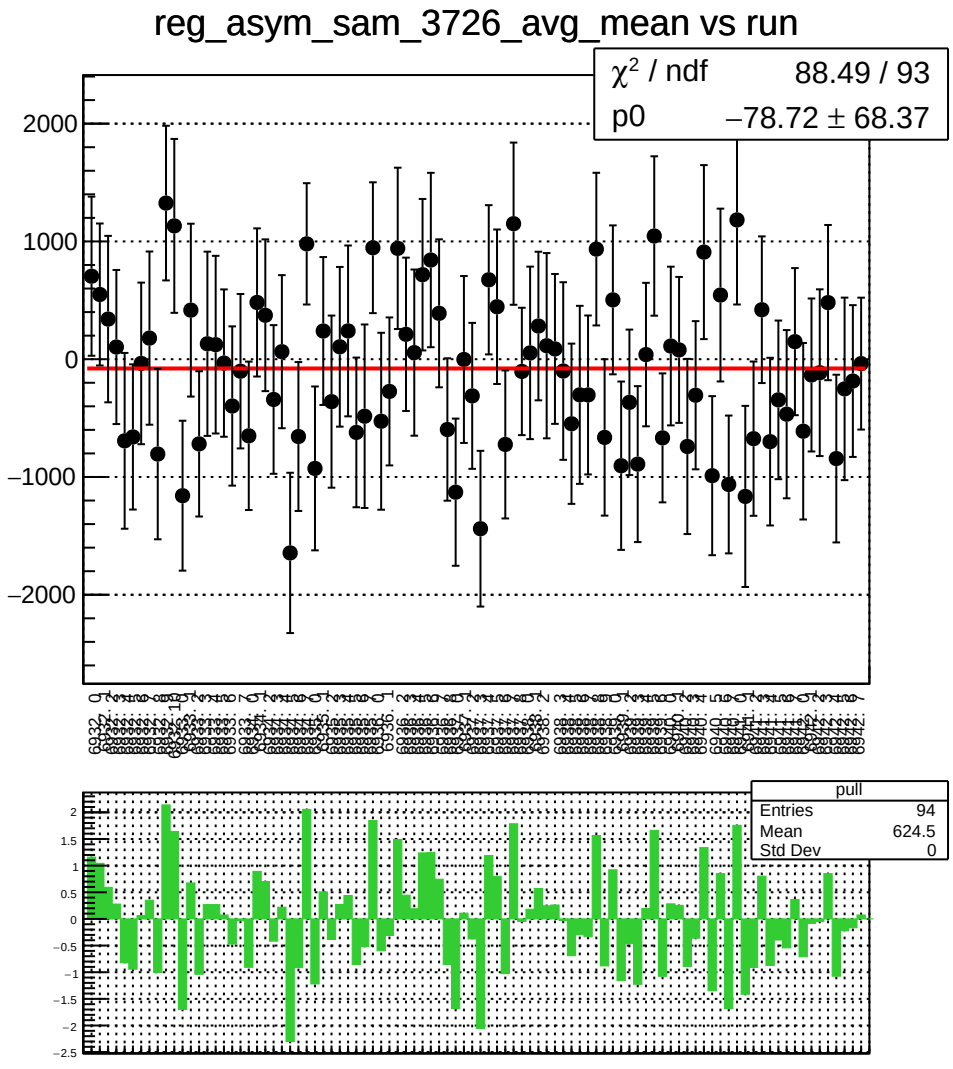

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.12 / 93
p0 0.0143 ± 0.03275
pull
Entries 94
Mean 533.6
Std Dev 0

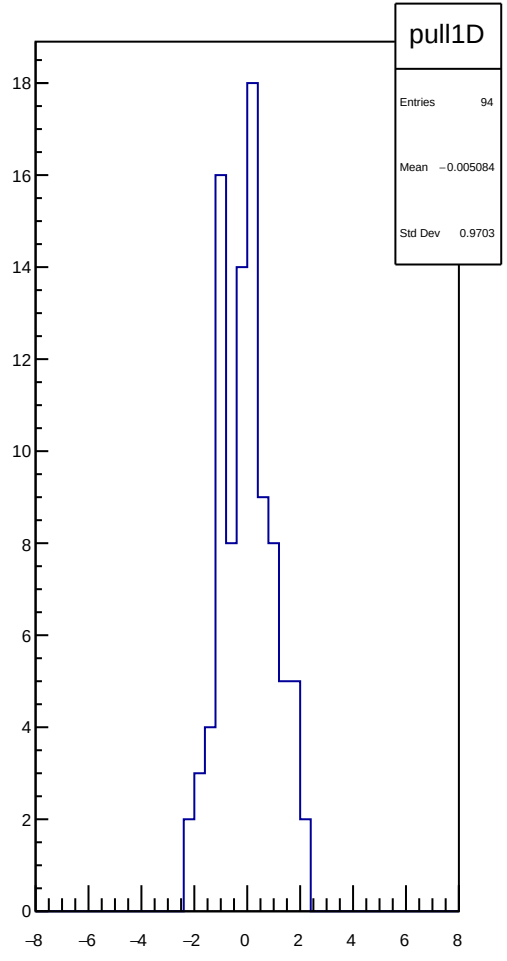

pull1D
Entries 94
Mean 0.007773
Std Dev 0.8386

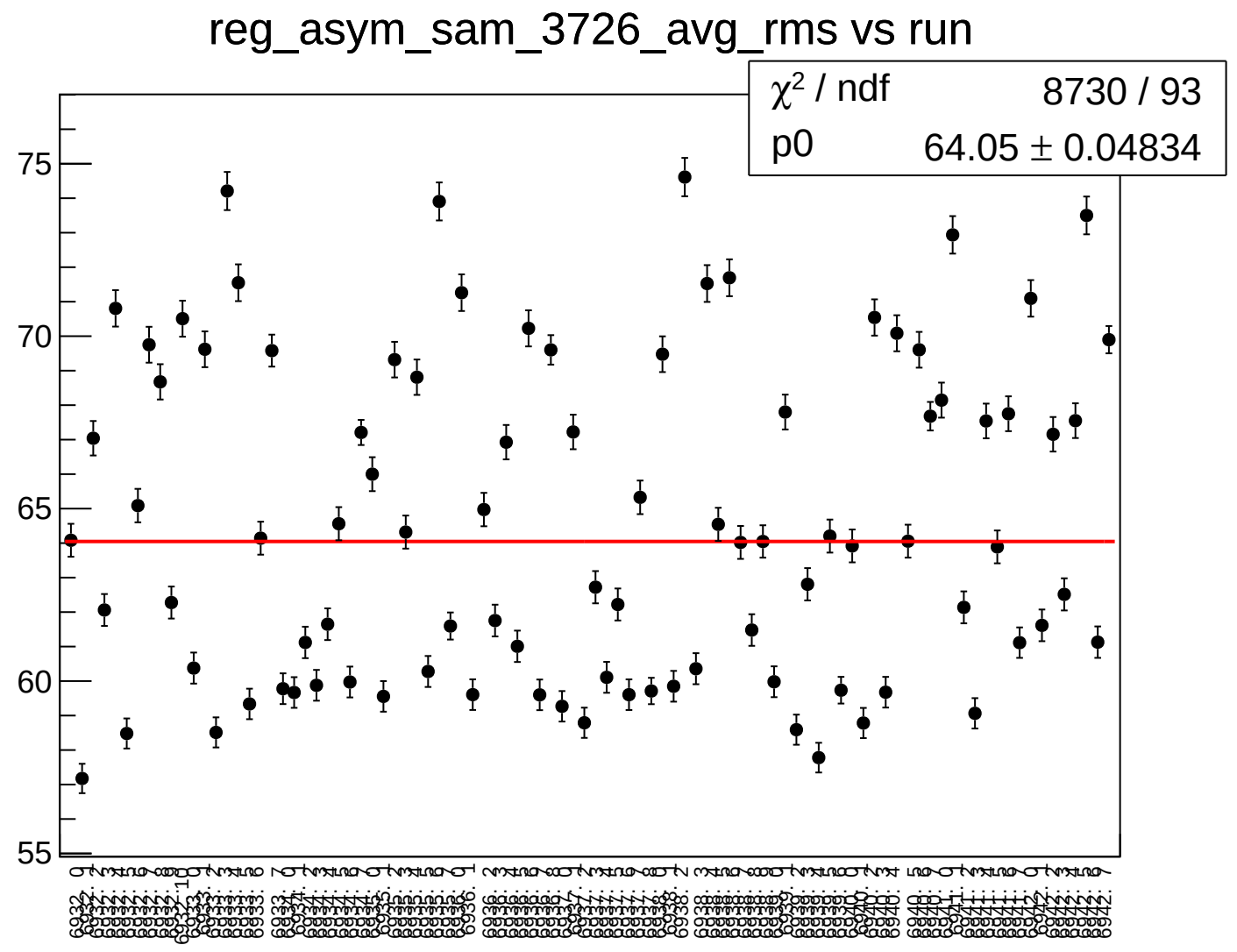

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+04 / 93
p0 30.63 ± 0.02316
45
40
35
30
25

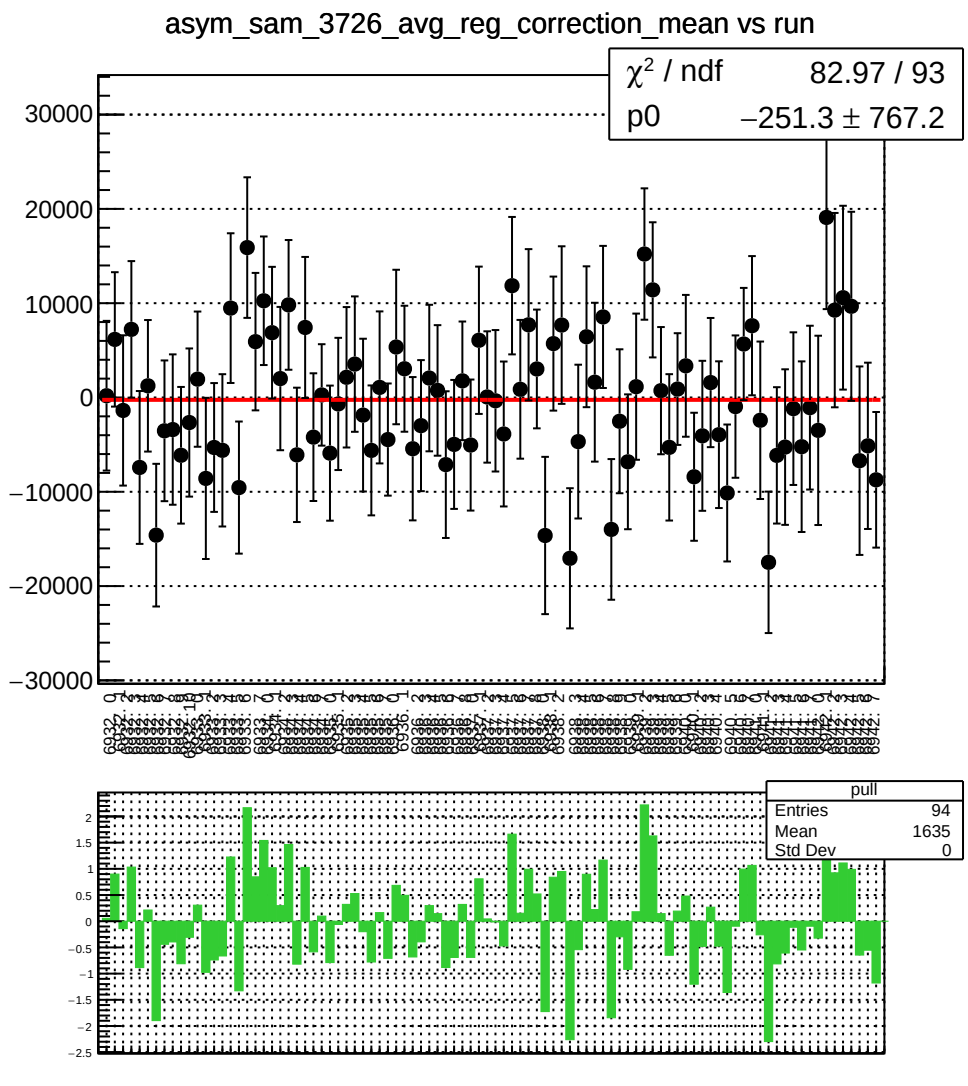

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.89 / 93
p0 −3.301e−15 ± 6.392e−15
pull
Entries 94
Mean 67.37
Std Dev 65.26
pull1D
Entries 94
Mean −0.01395
Std Dev 0.9668

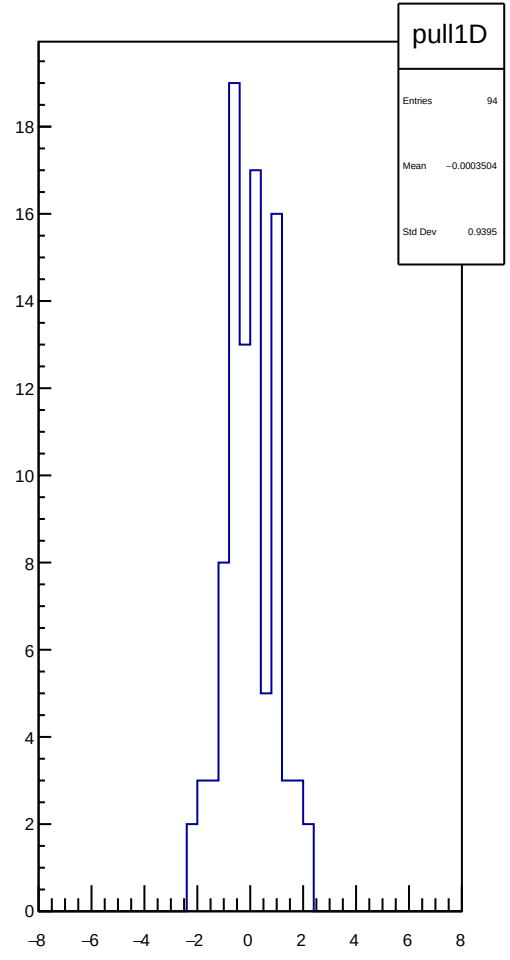

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.844e+05 / 93
p0 4.473e−12 ± 4.52e−15
50
40
30
20
10

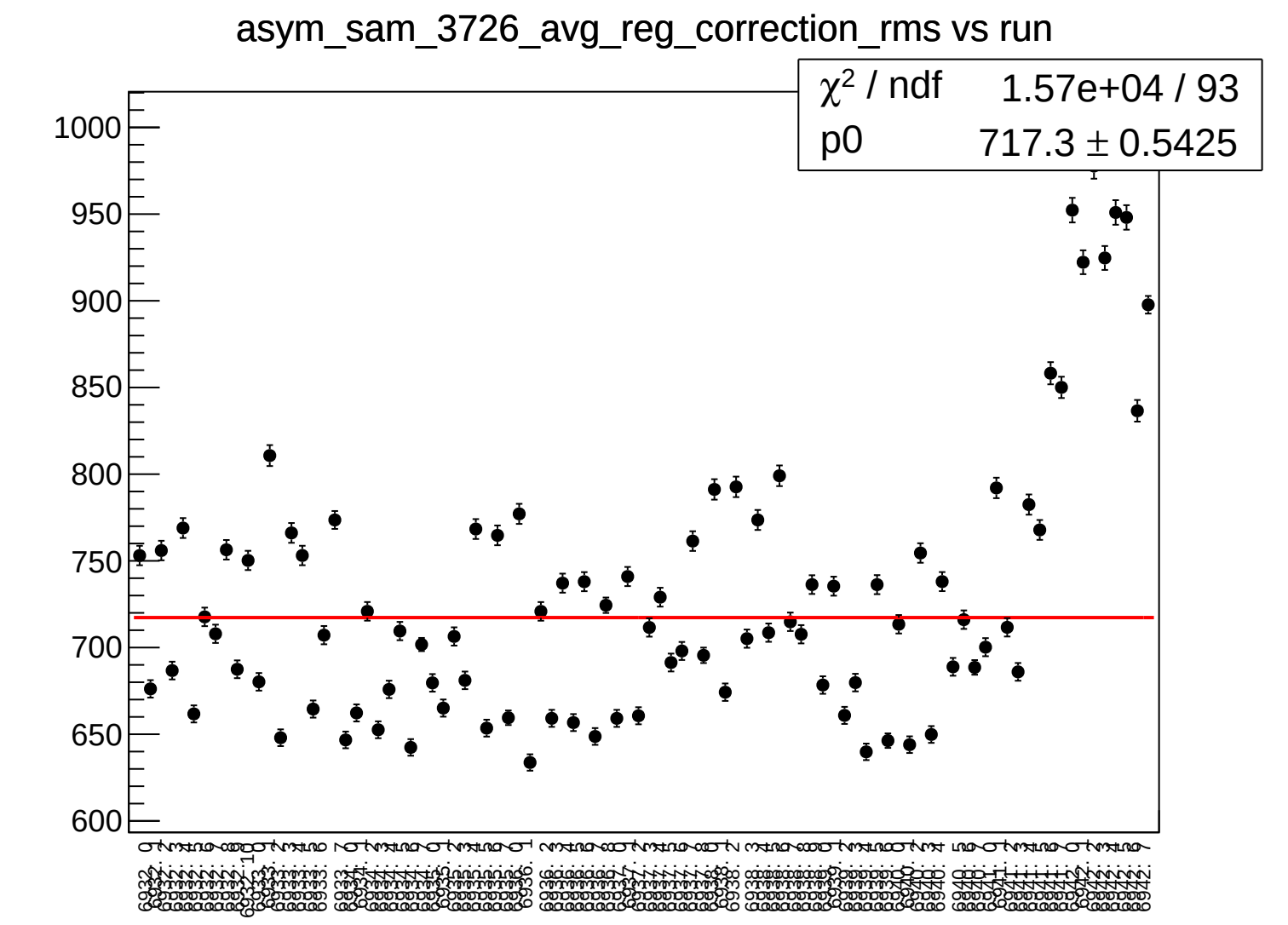

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 88.49 / 93
p0 −78.72 ± 68.37
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 624.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

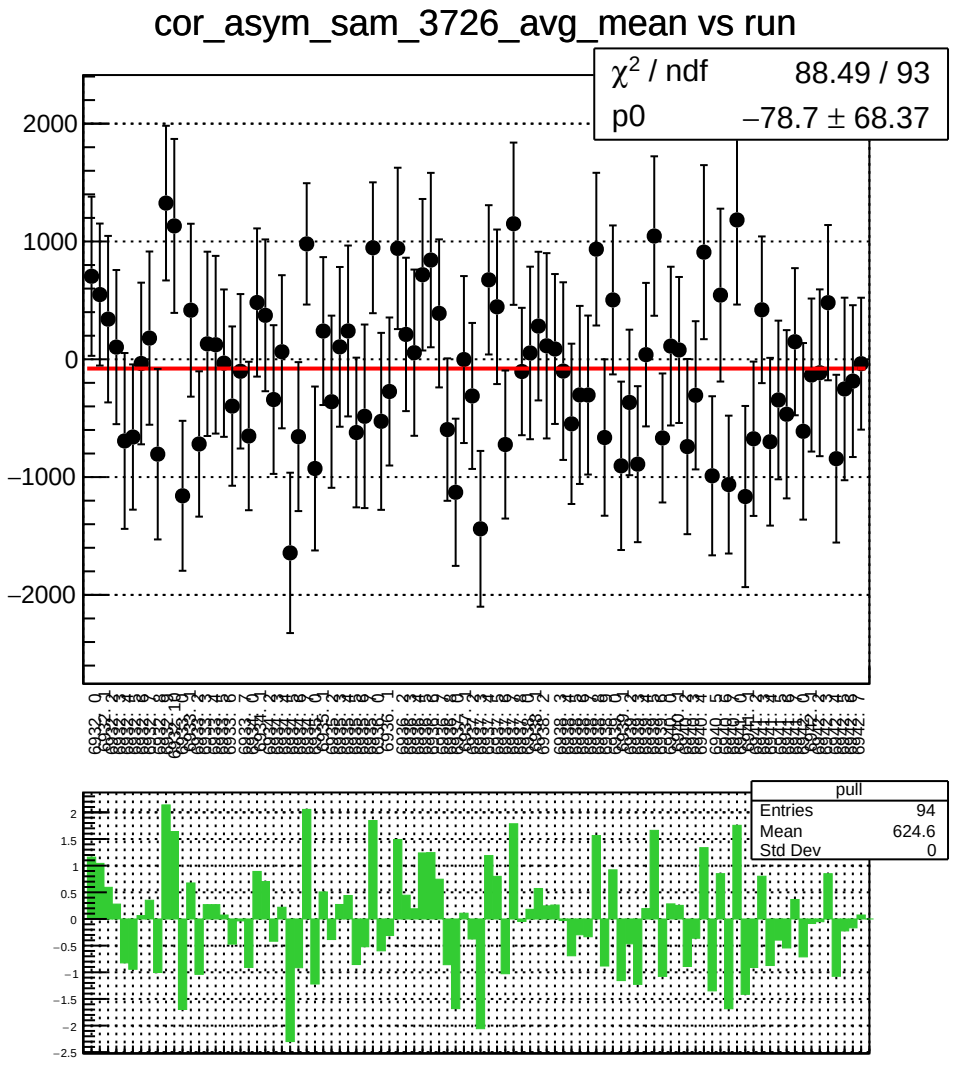

pull1D
Entries 94
Mean −0.005084
Std Dev 0.9703
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

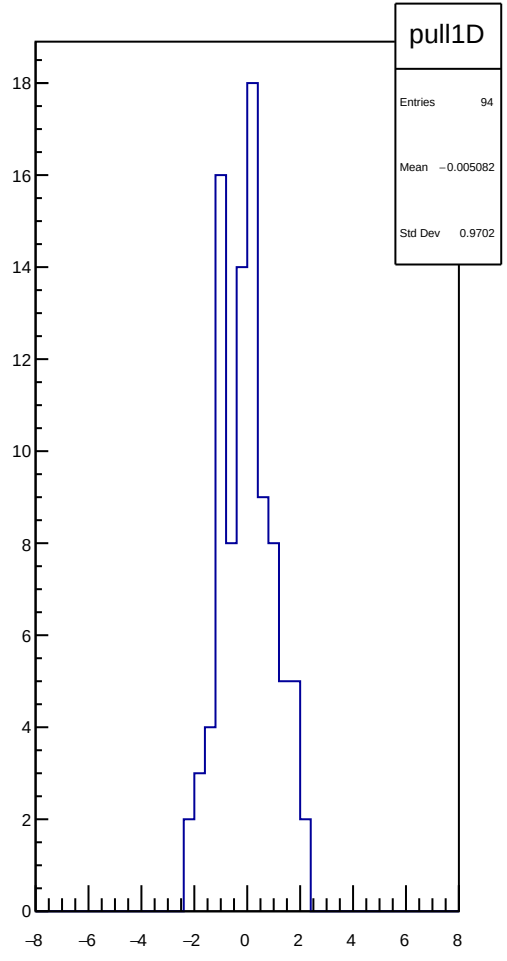

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 8730 / 93
p0 64.05 ± 0.04834
75
70
65
60
55

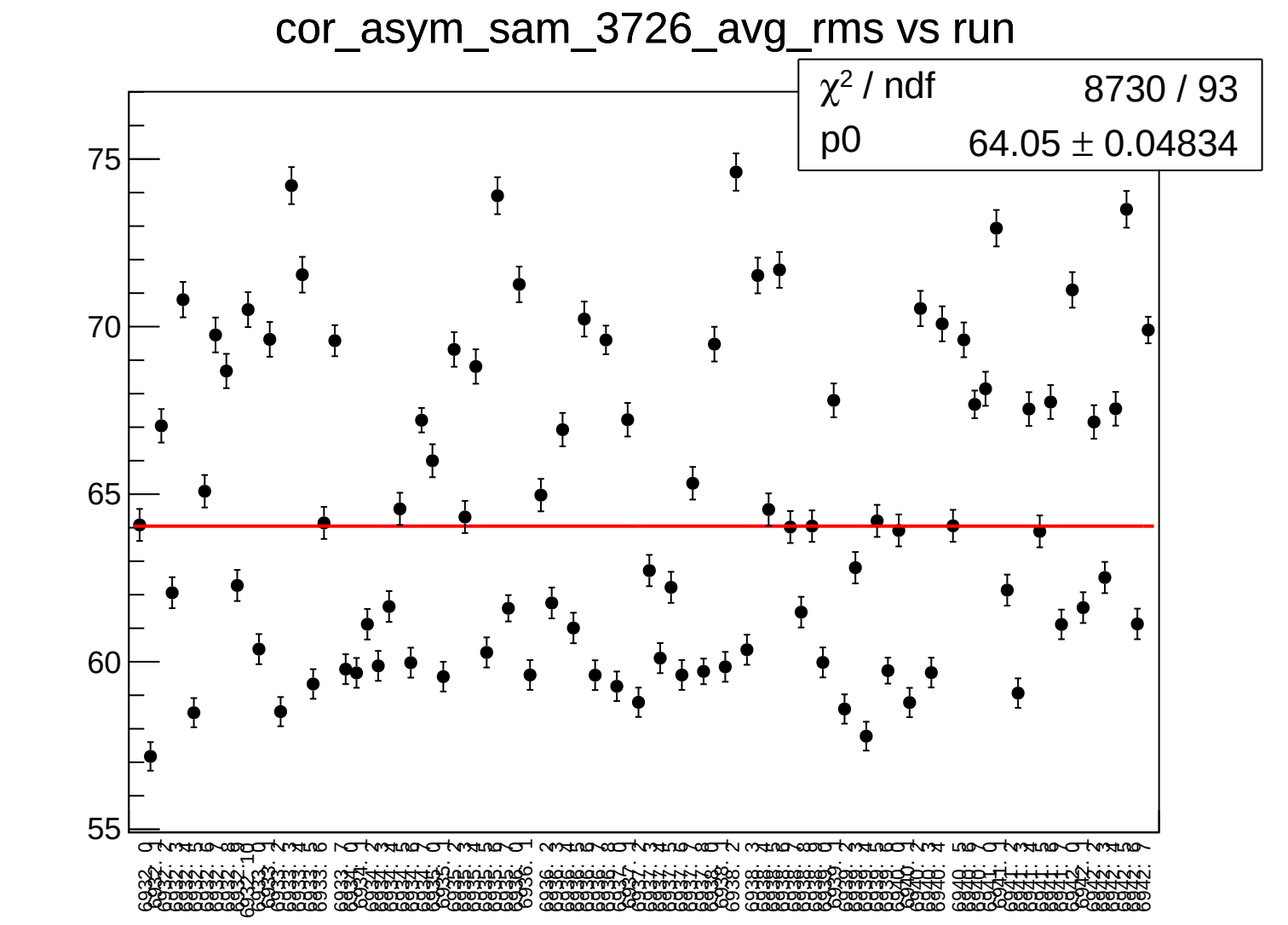

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 82.97 / 93
p0 −251.3 ± 767.2
pull
Entries 94
Mean 1635
Std Dev 0

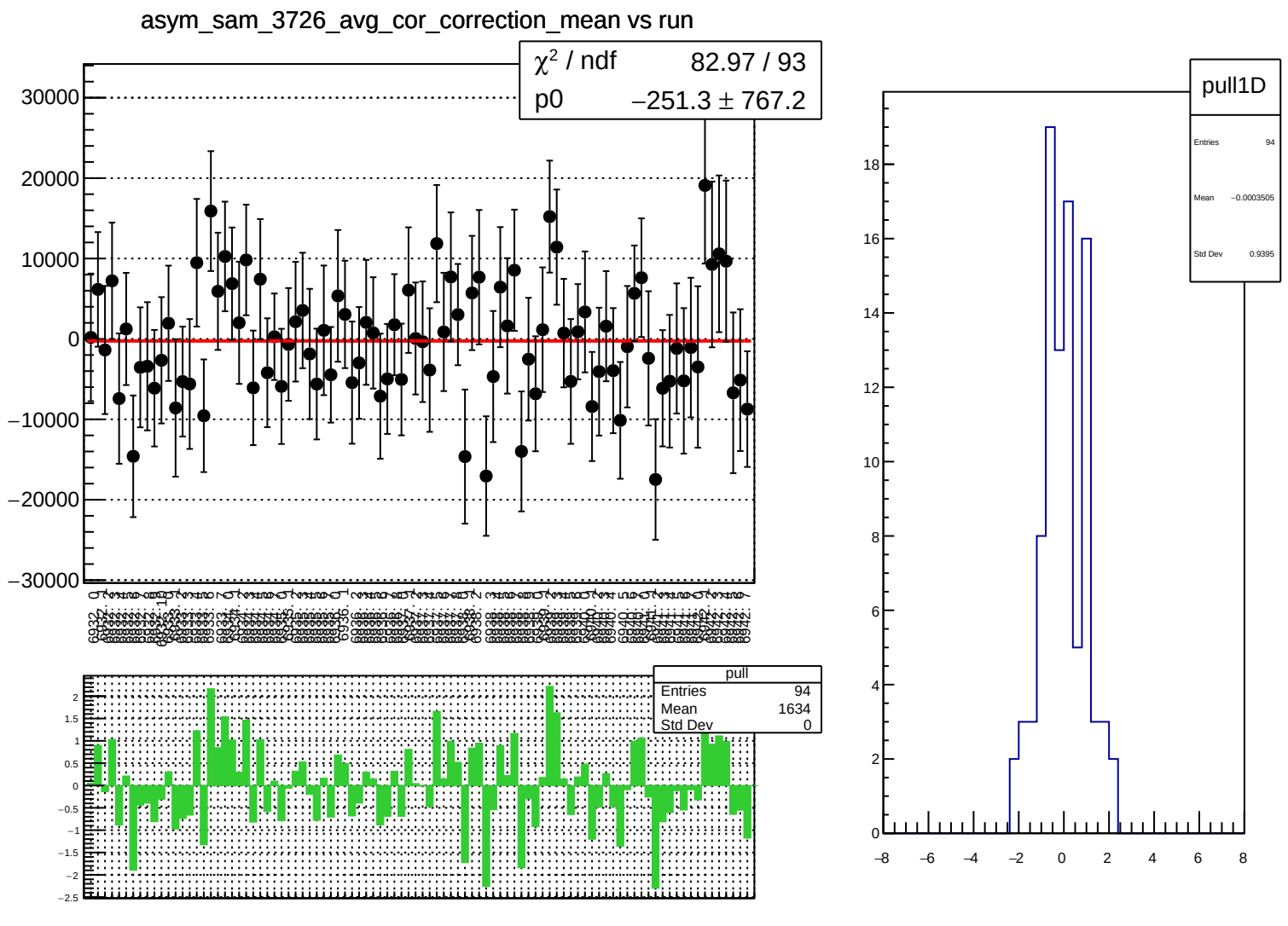

pull1D
Entries 94
Mean −0.0003504
Std Dev 0.9395

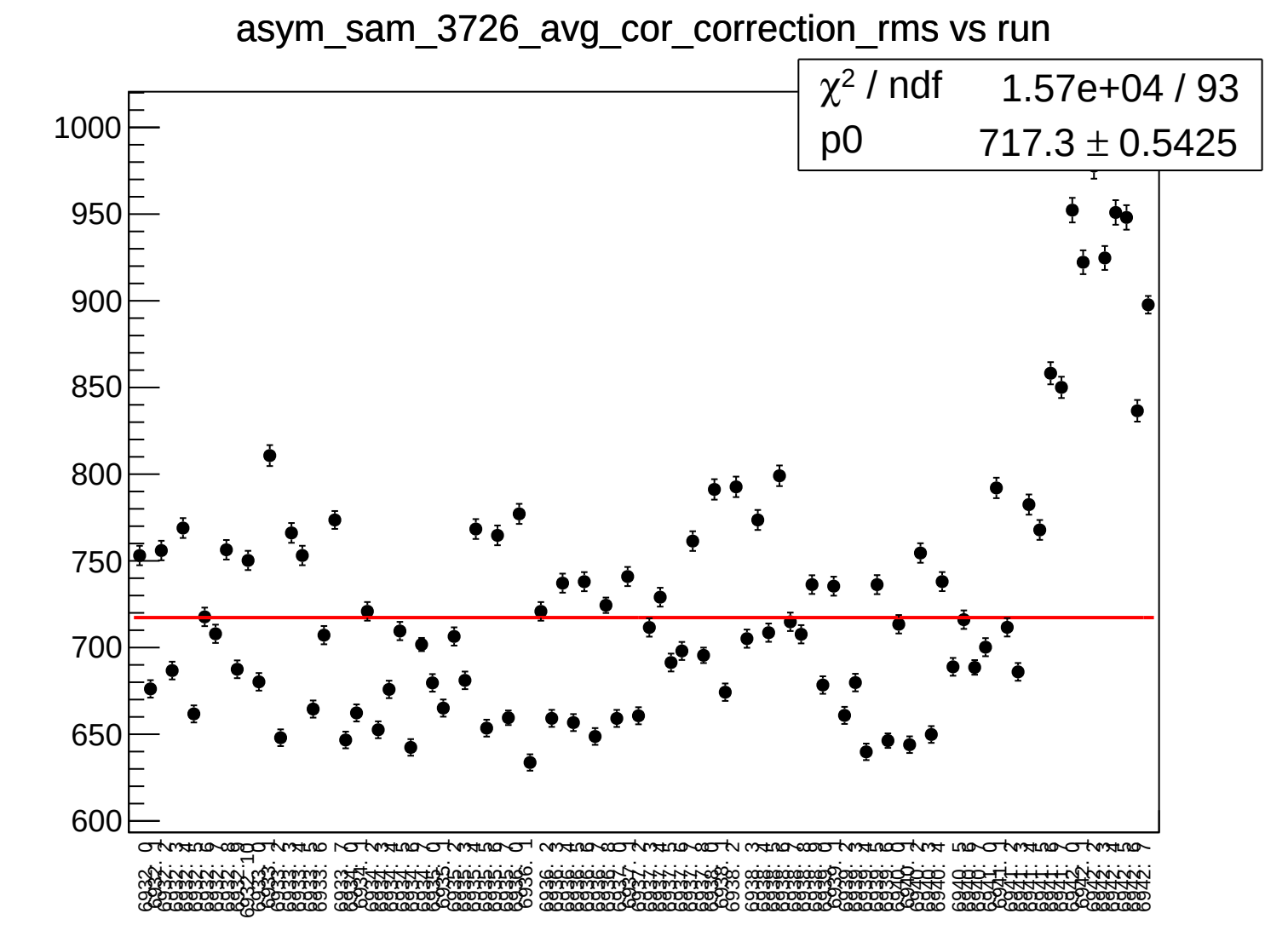

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.57e+04 / 93
p0 717.3 ± 0.5425
1000
950
900
850
800
750
700
650
600

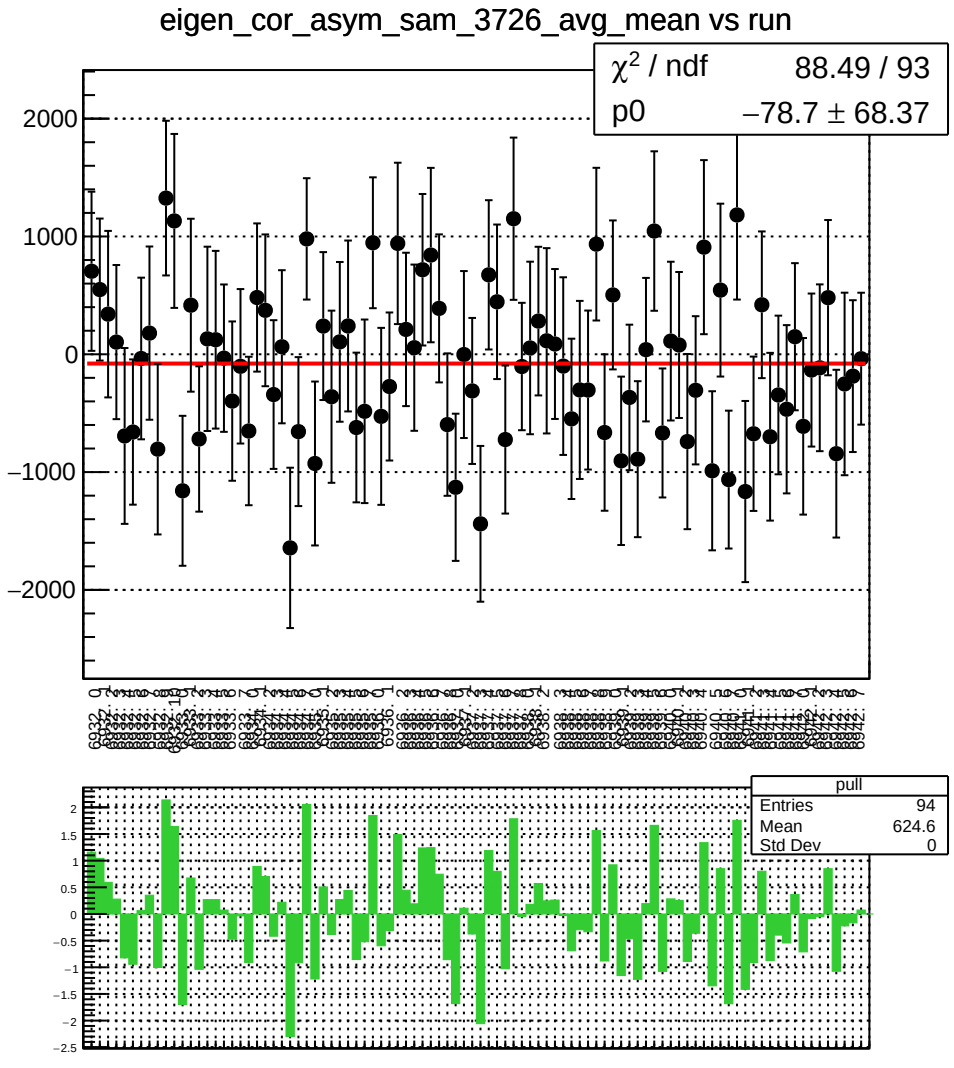

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.49 / 93
p0 −78.7 ± 68.37
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 624.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

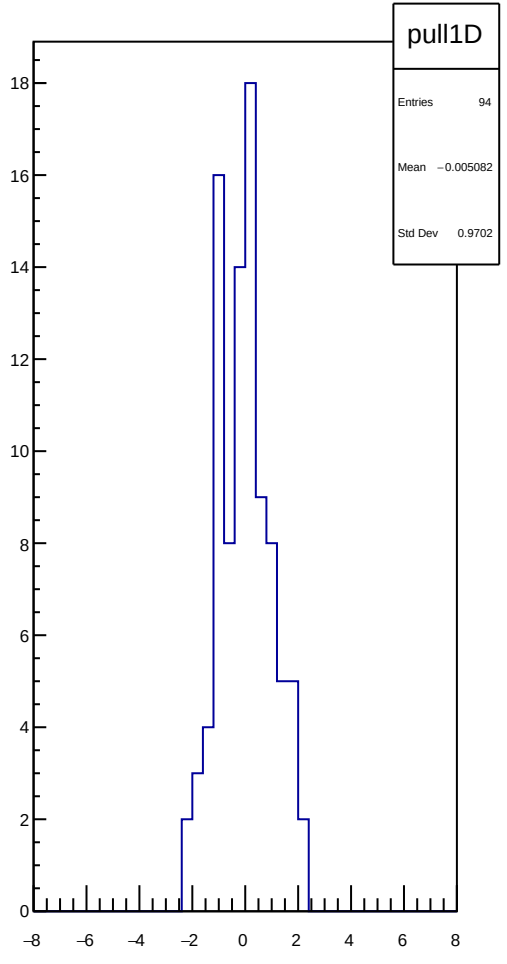

pull1D
Entries 94
Mean −0.005082
Std Dev 0.9702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

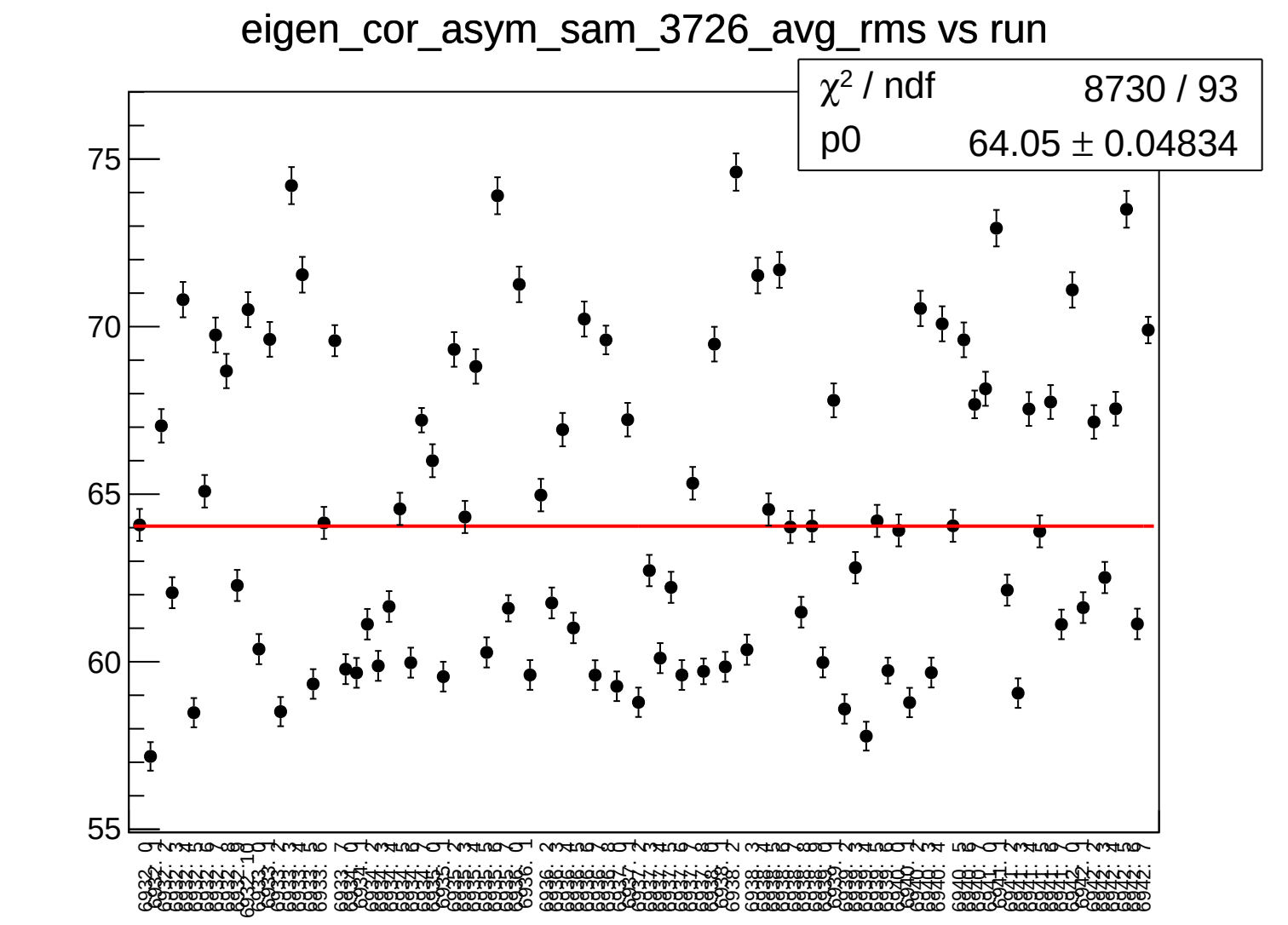

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8730 / 93
p0 64.05 ± 0.04834
75
70
65
60
55

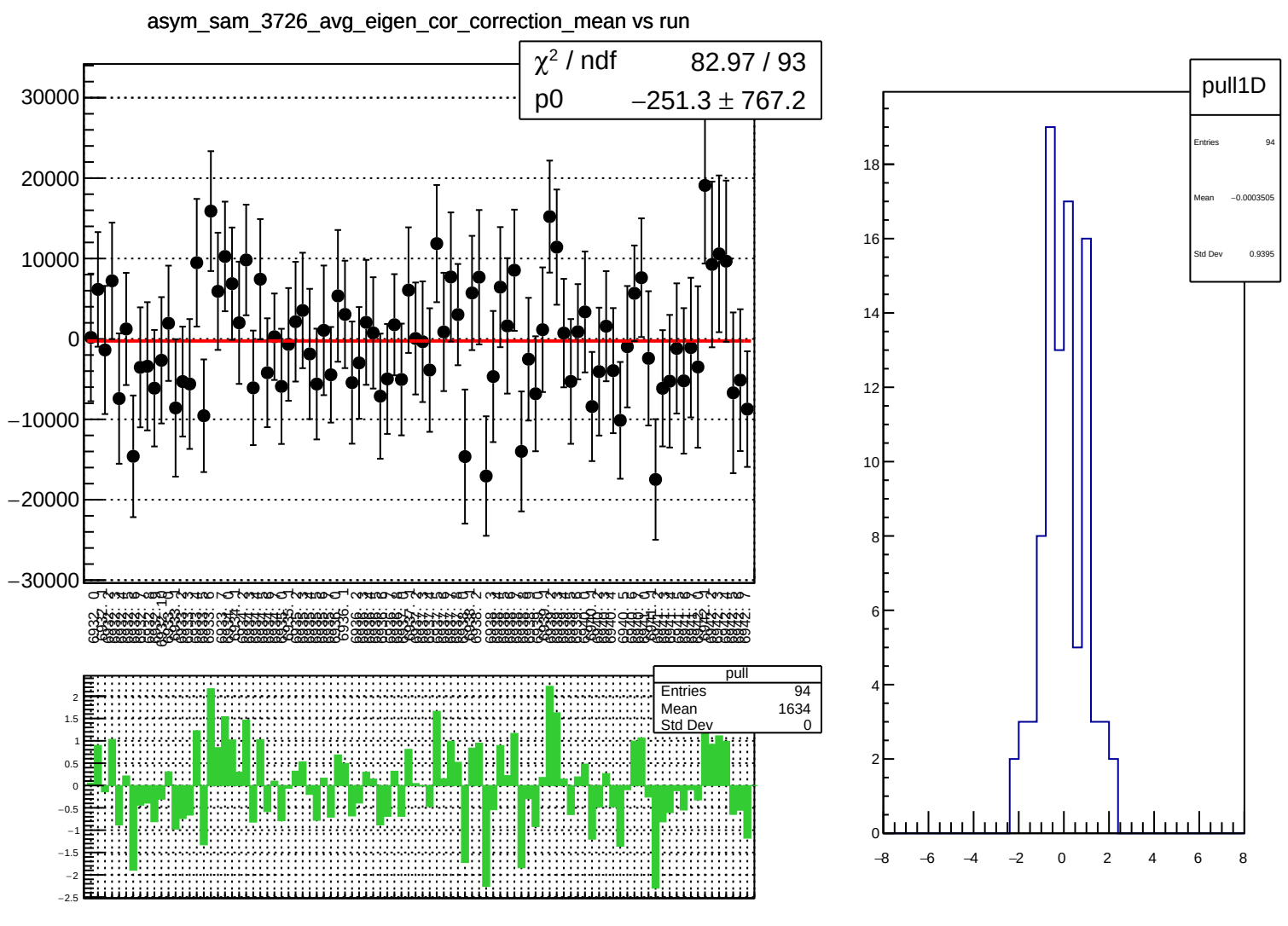

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 82.97 / 93
p0 −251.3 ± 767.2
pull
Entries 94
Mean 1634
Std Dev 0
pull1D
Entries 94
Mean −0.0003505
Std Dev 0.9395

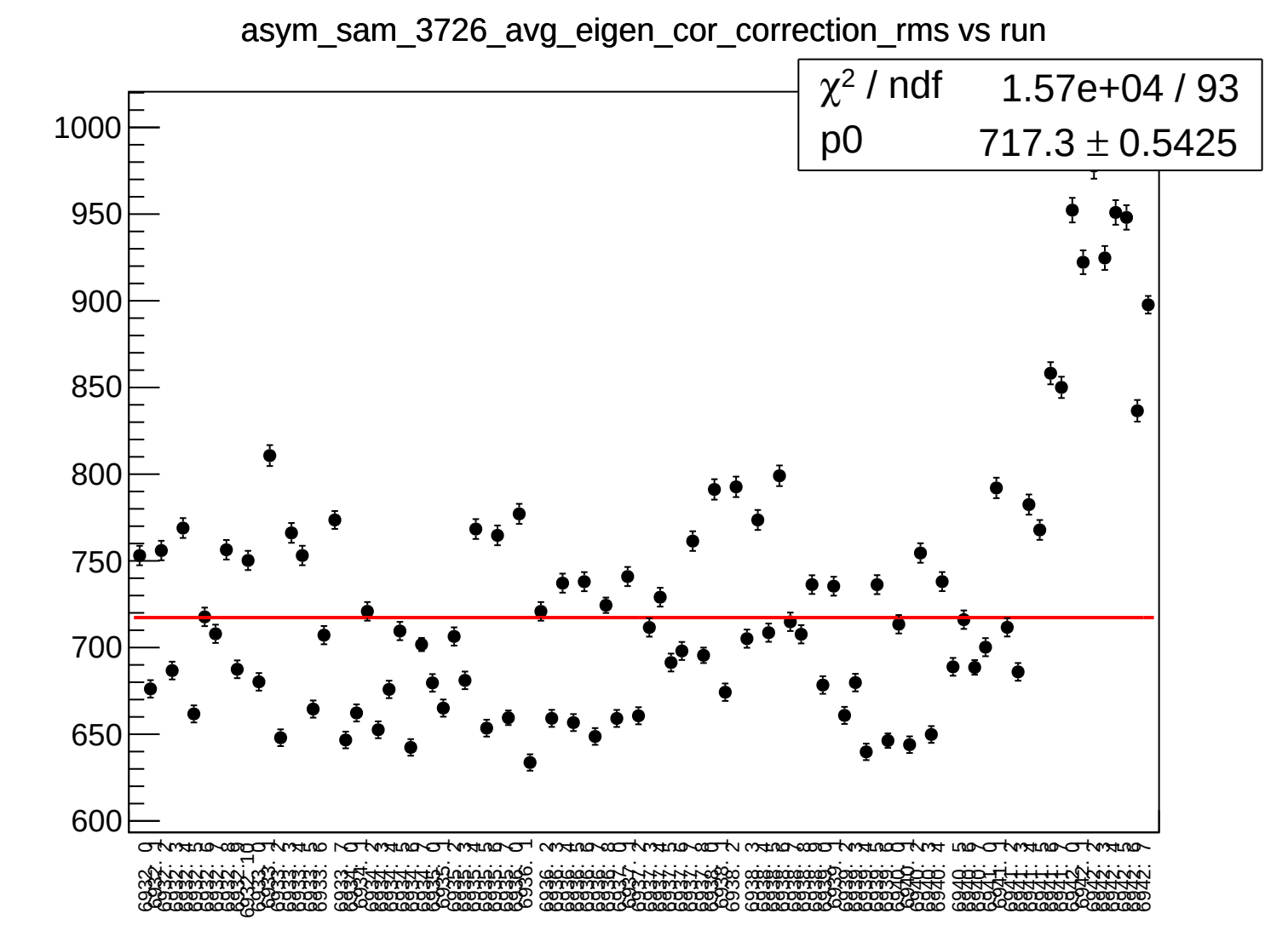

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.57e+04 / 93
p0 717.3 ± 0.5425
1000
950
900
850
800
750
700
650
600

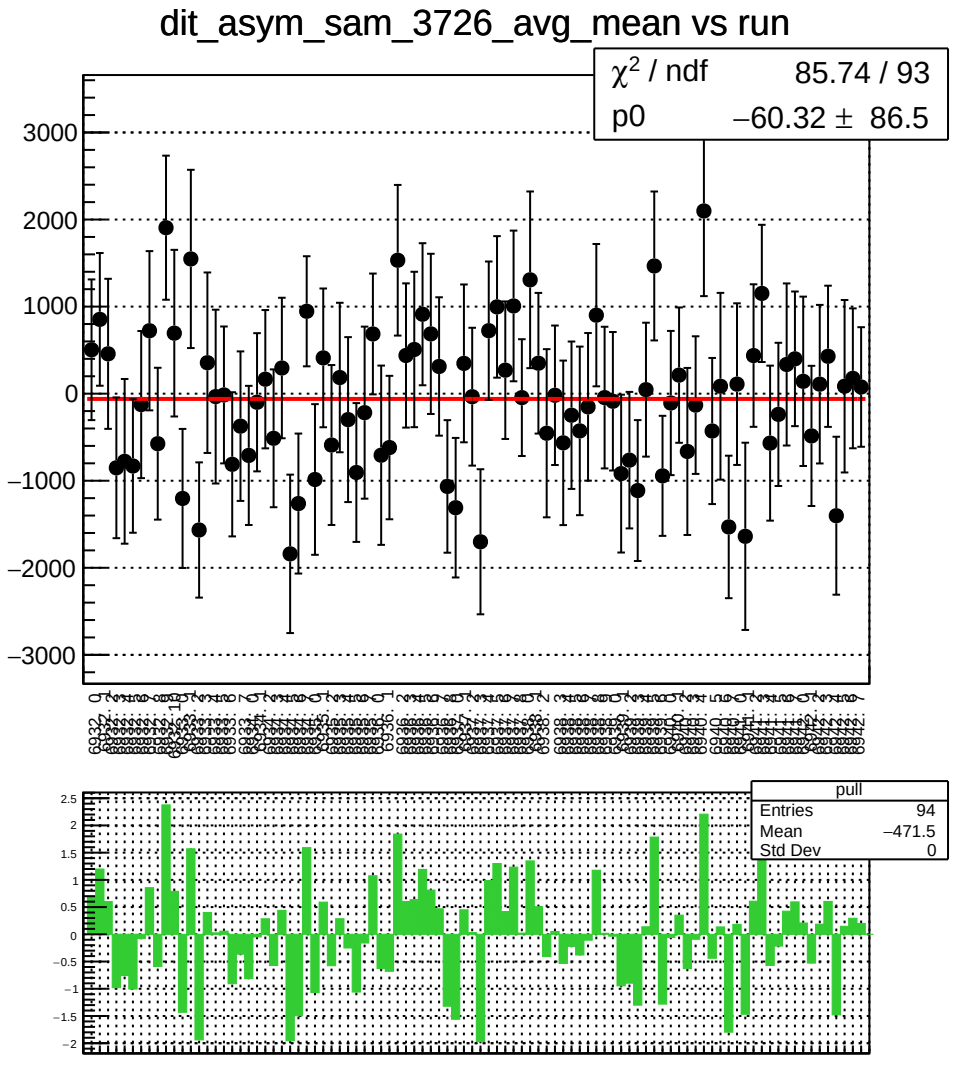

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 88.49 / 93
p0 −78.7 ± 68.37
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 624.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

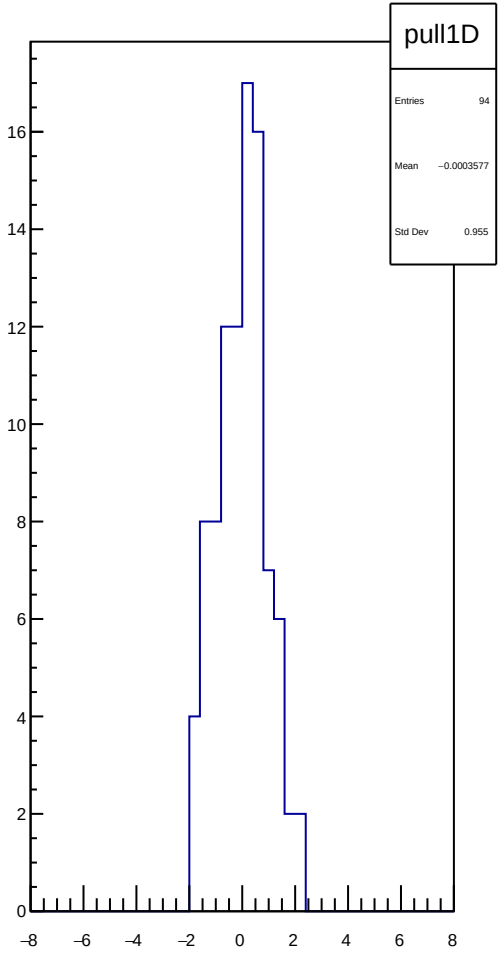

pull1D
Entries 94
Mean −0.005082
Std Dev 0.9702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

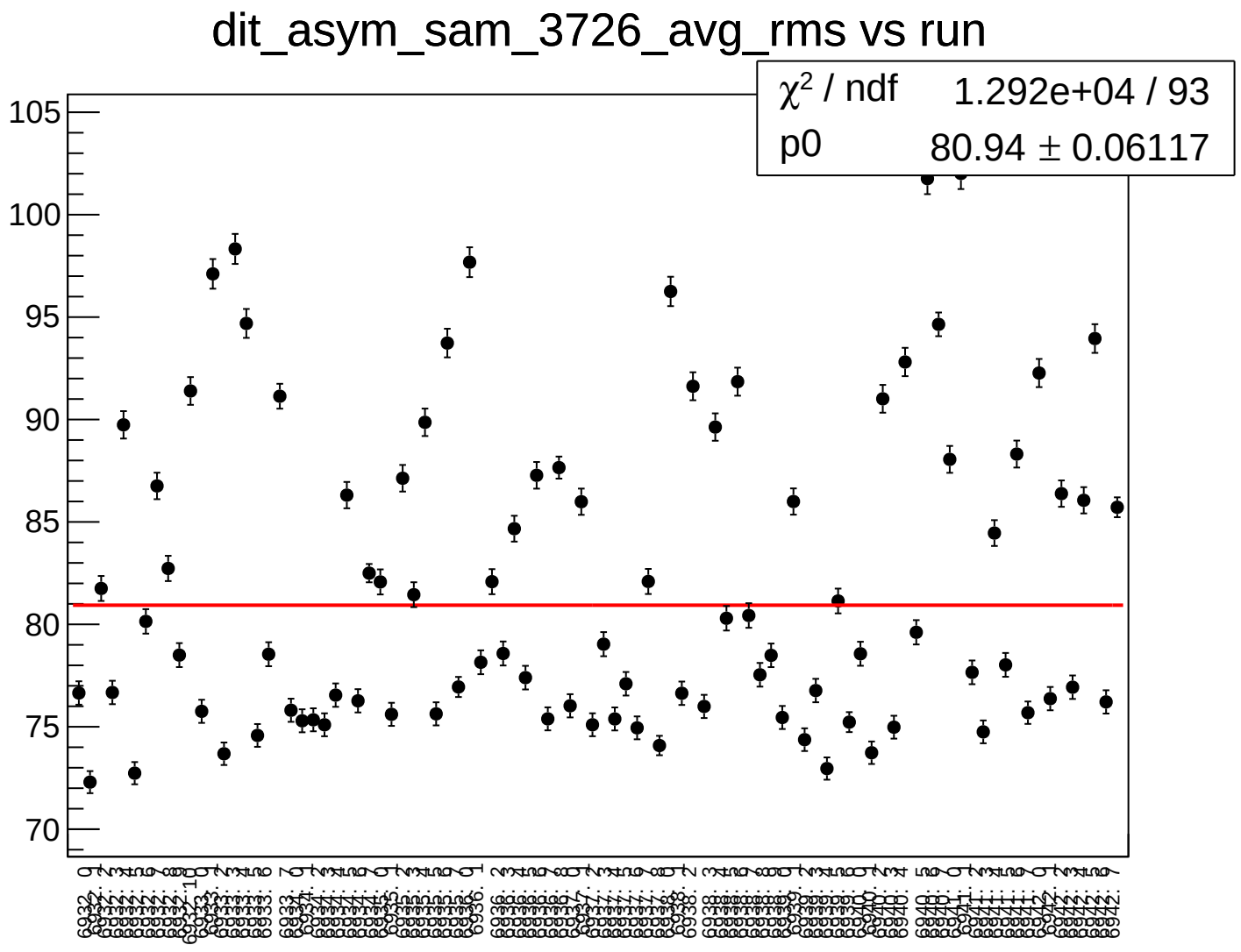

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 8730 / 93
p0 64.05 ± 0.04834
75
70
65
60
55

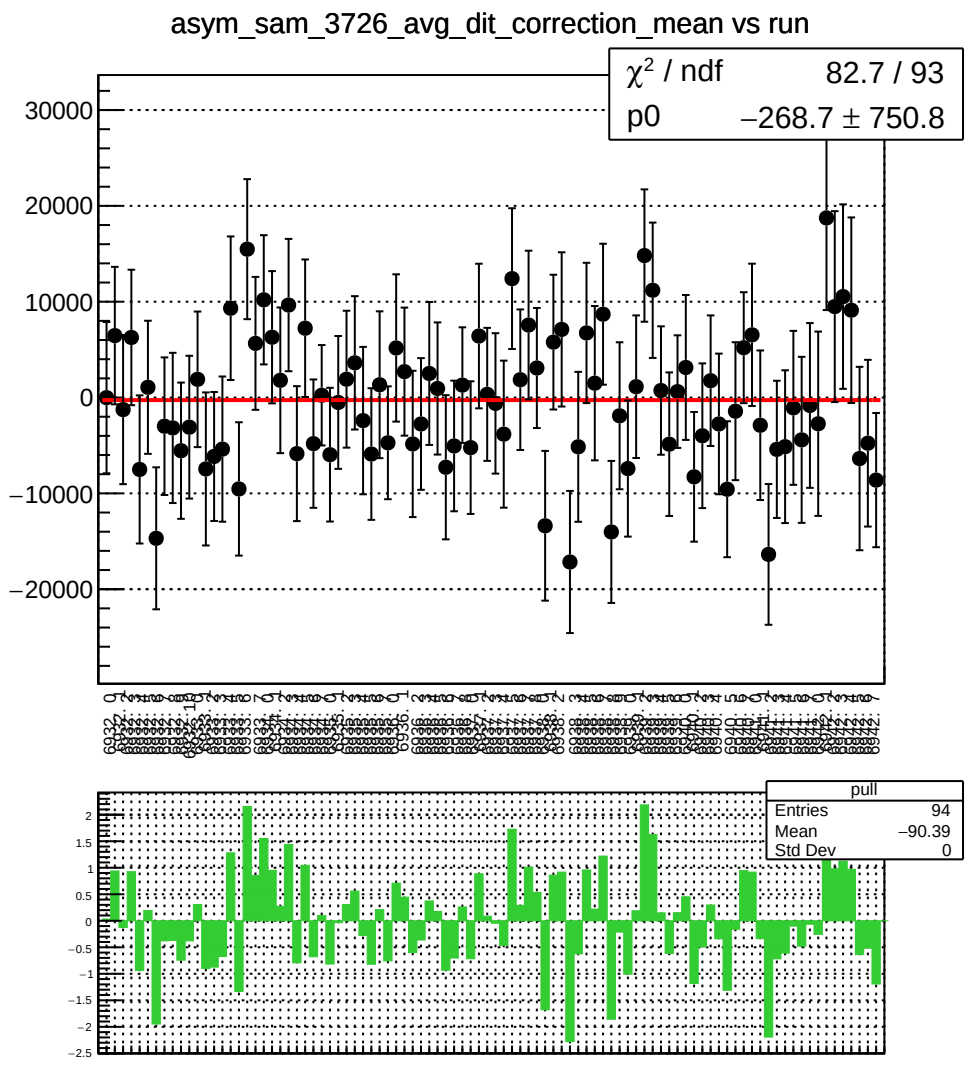

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.97 / 93
p0 −251.3 ± 767.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1634
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.0003505
Std Dev 0.9395
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

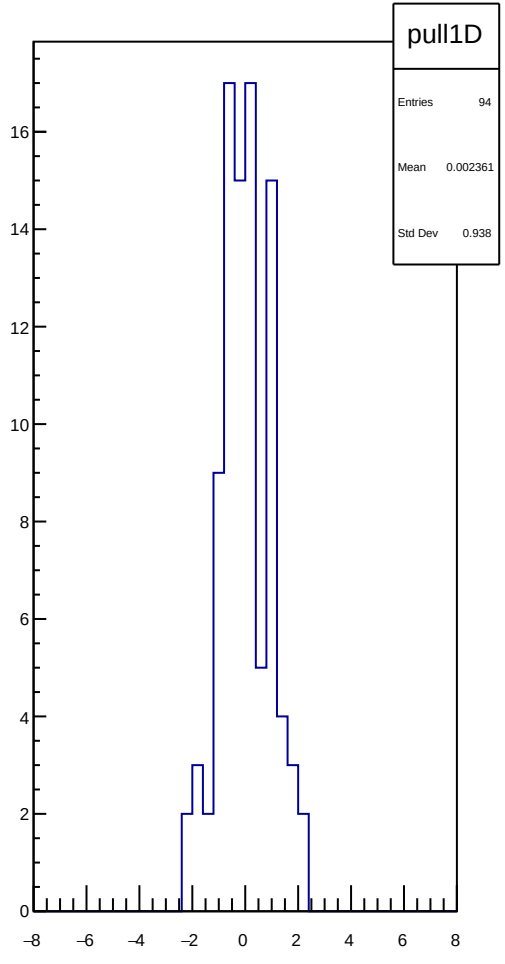

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.57e+04 / 93
p0 717.3 ± 0.5425
1000
950
900
850
800
750
700
650
600

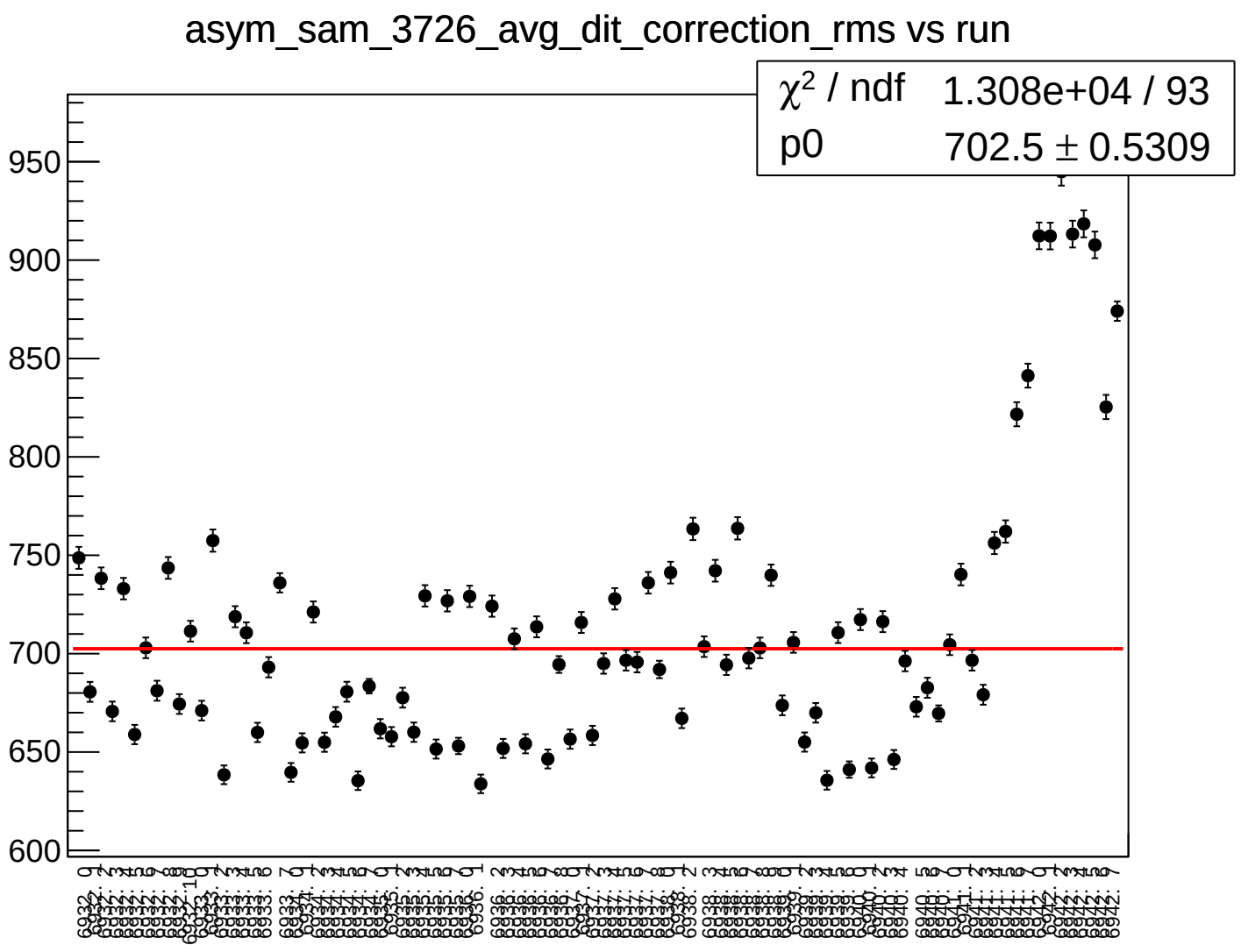

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 85.74 / 93
p0 −60.32 ± 86.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −471.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

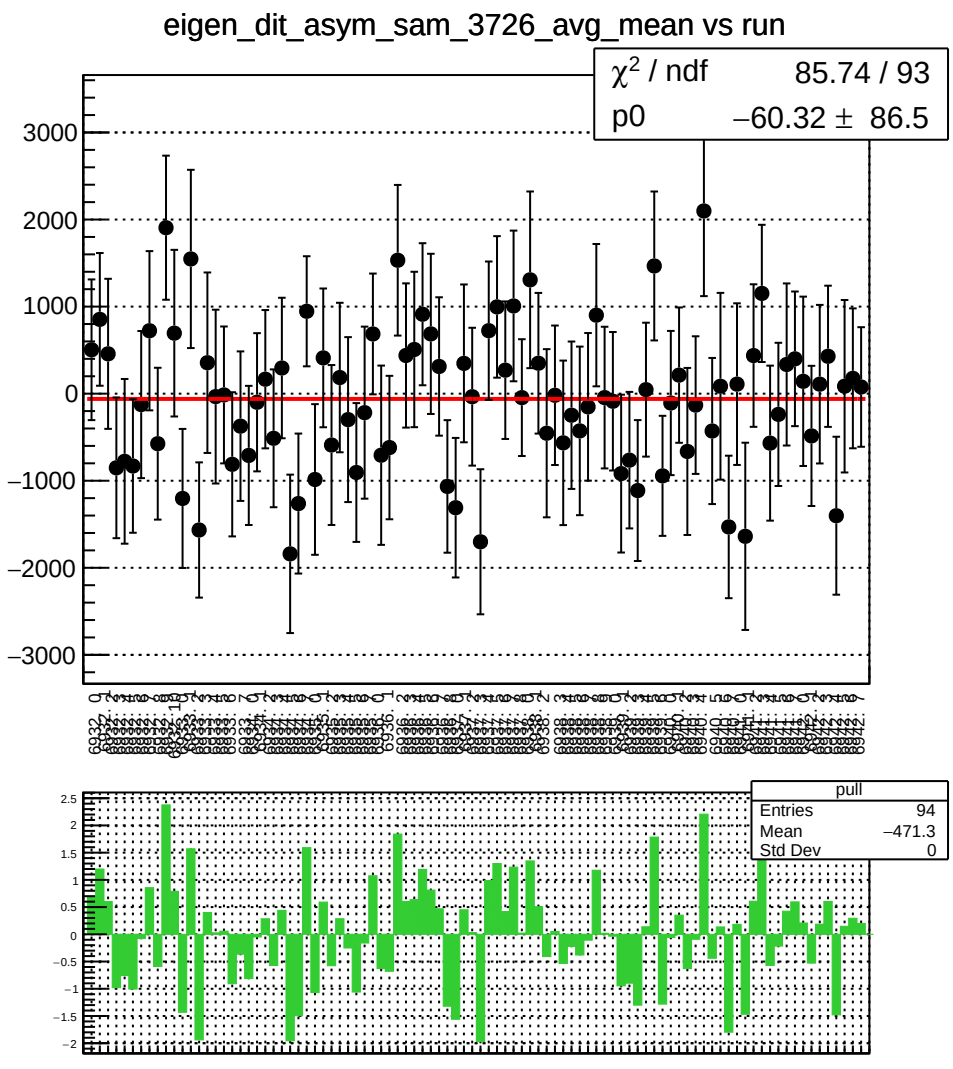

pull1D
Entries 94
Mean −0.0003577
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

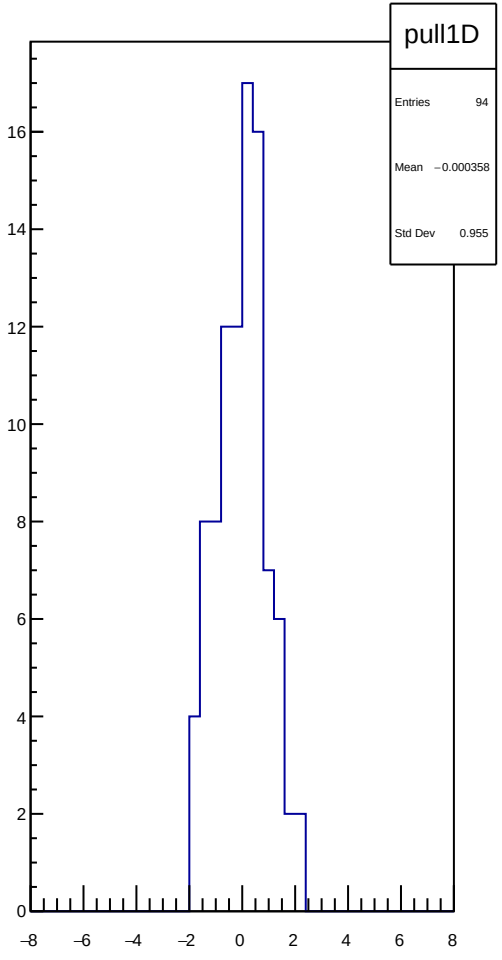

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.292e+04 / 93
p0 80.94 ± 0.06117
105
100
95
90
85
80
75
70

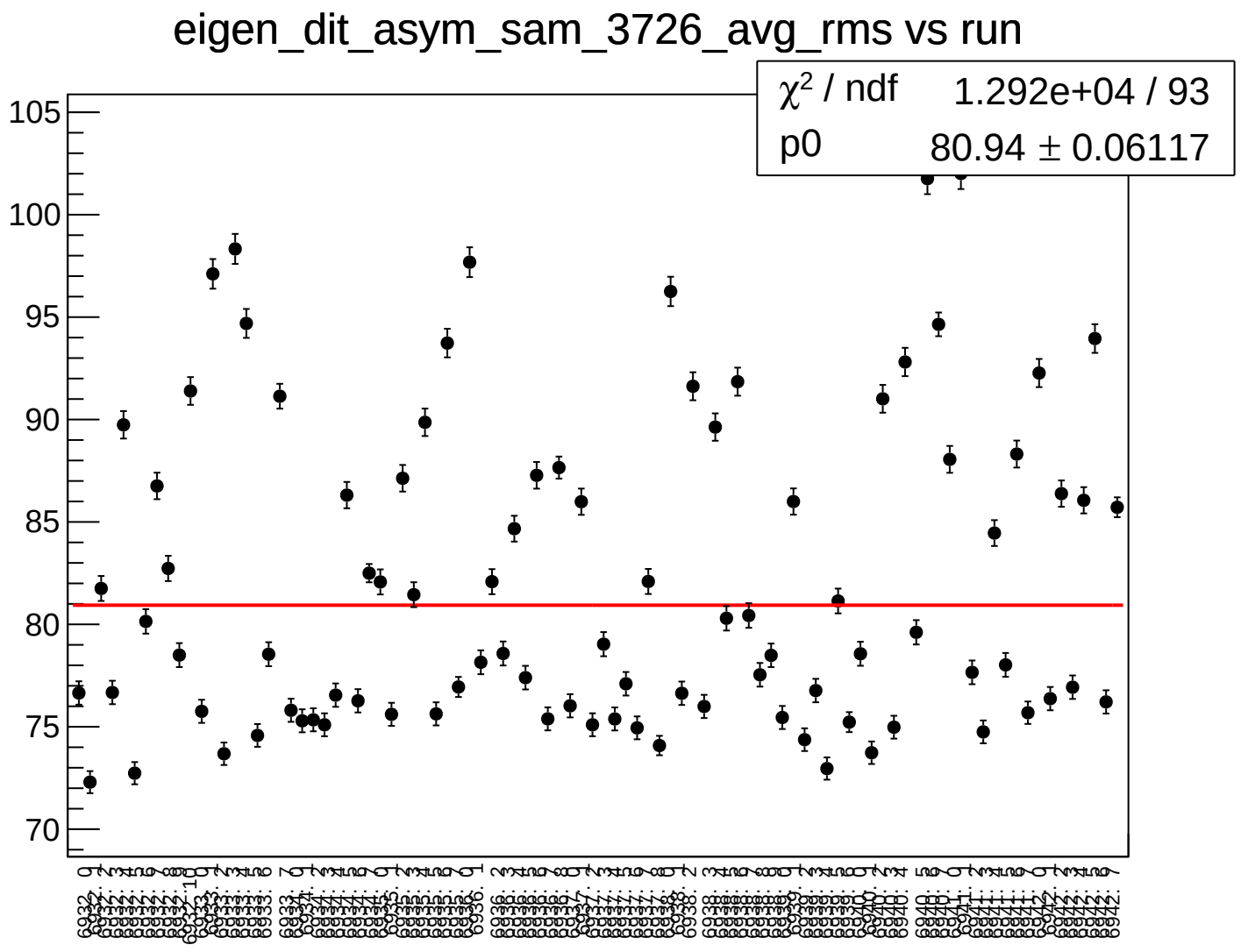

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 82.7 / 93
p0 −268.7 ± 750.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −90.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

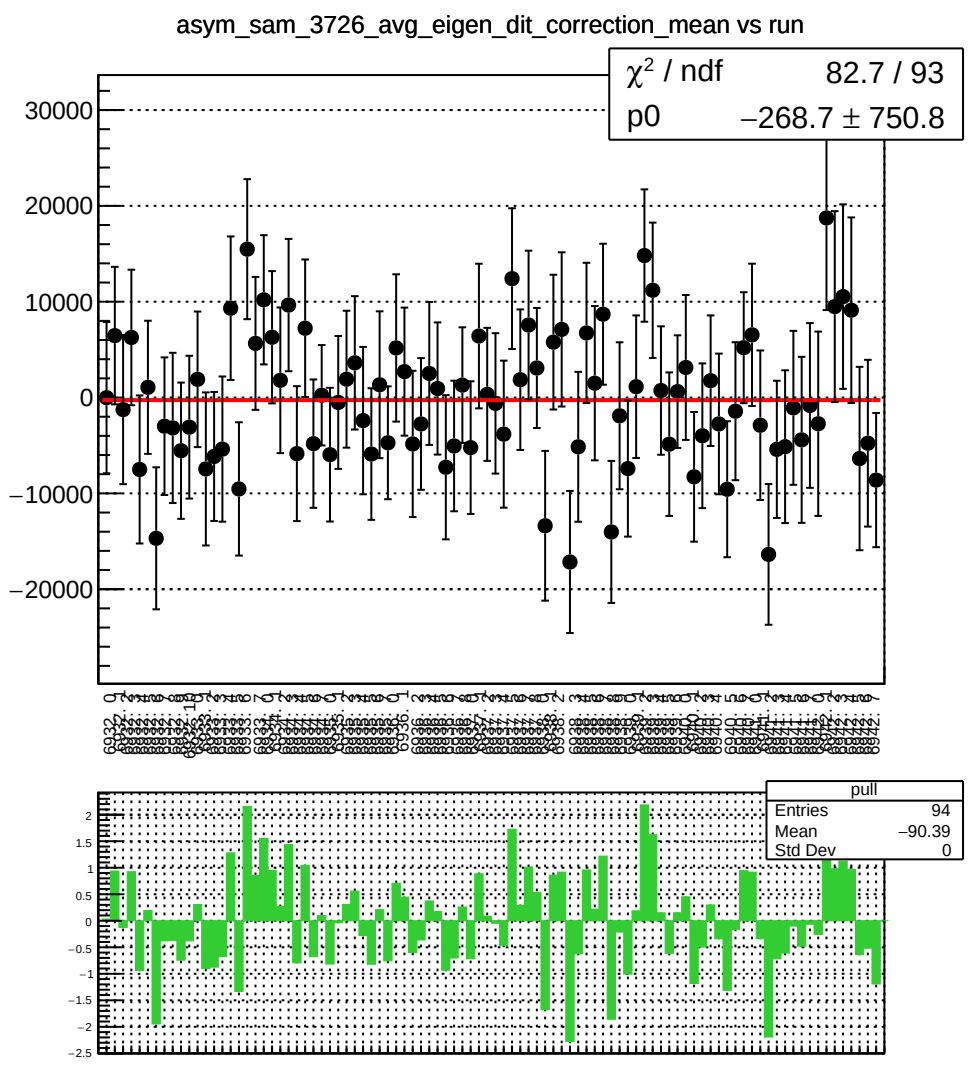

pull1D
Entries 94
Mean 0.002361
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

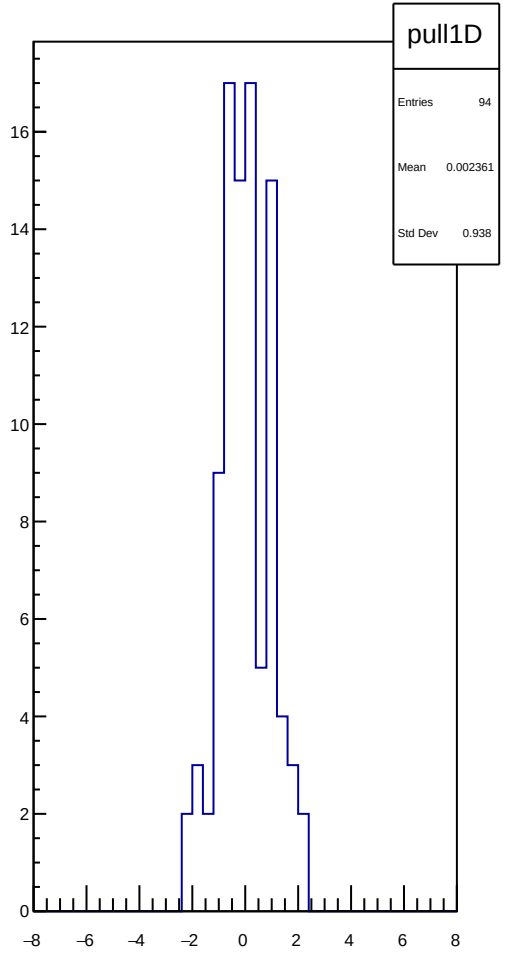

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 1.308e+04 / 93
p0 702.5 ± 0.5309
950
900
850
800
750
700
650
600

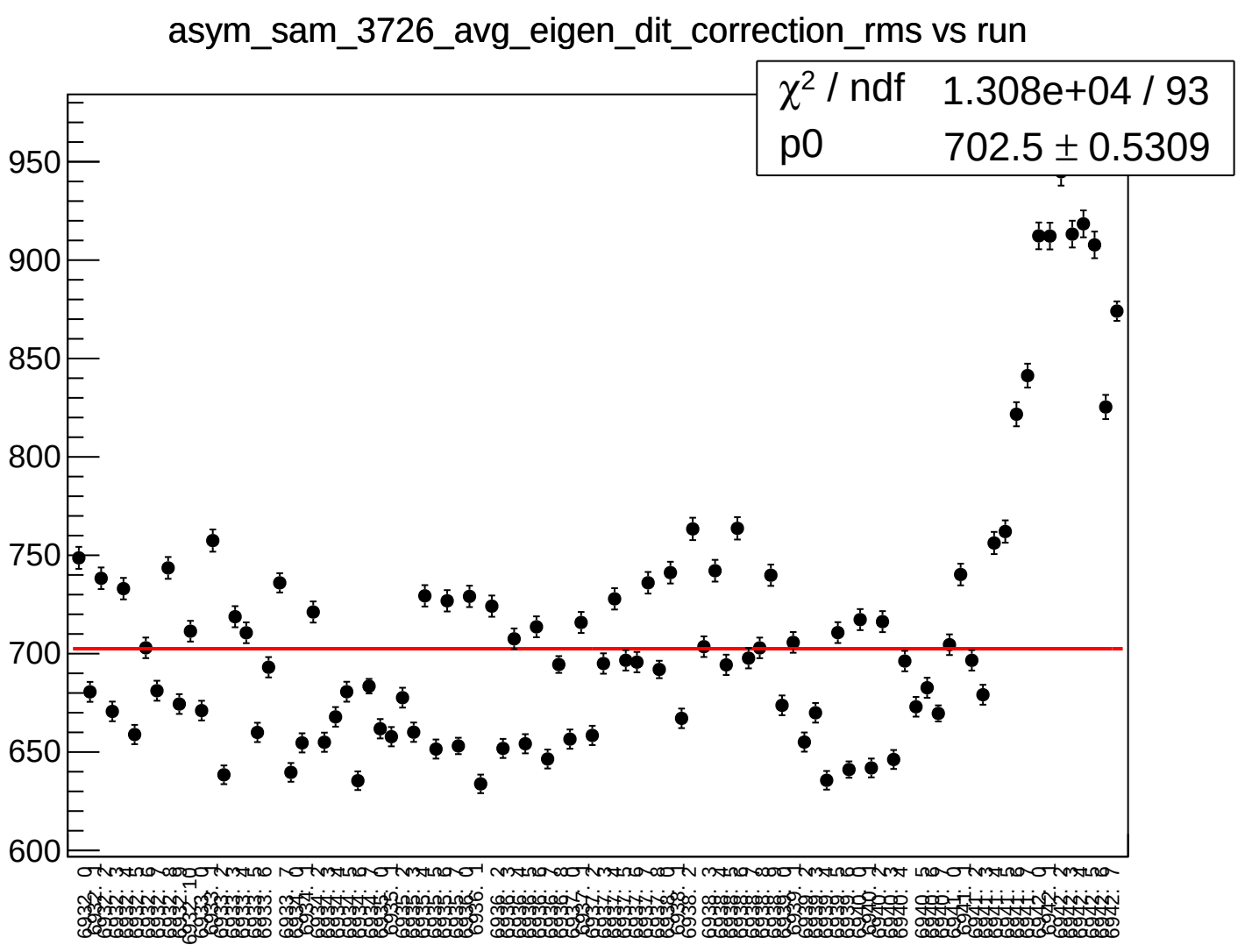

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 85.74 / 93
p0 −60.32 ± 86.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −471.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

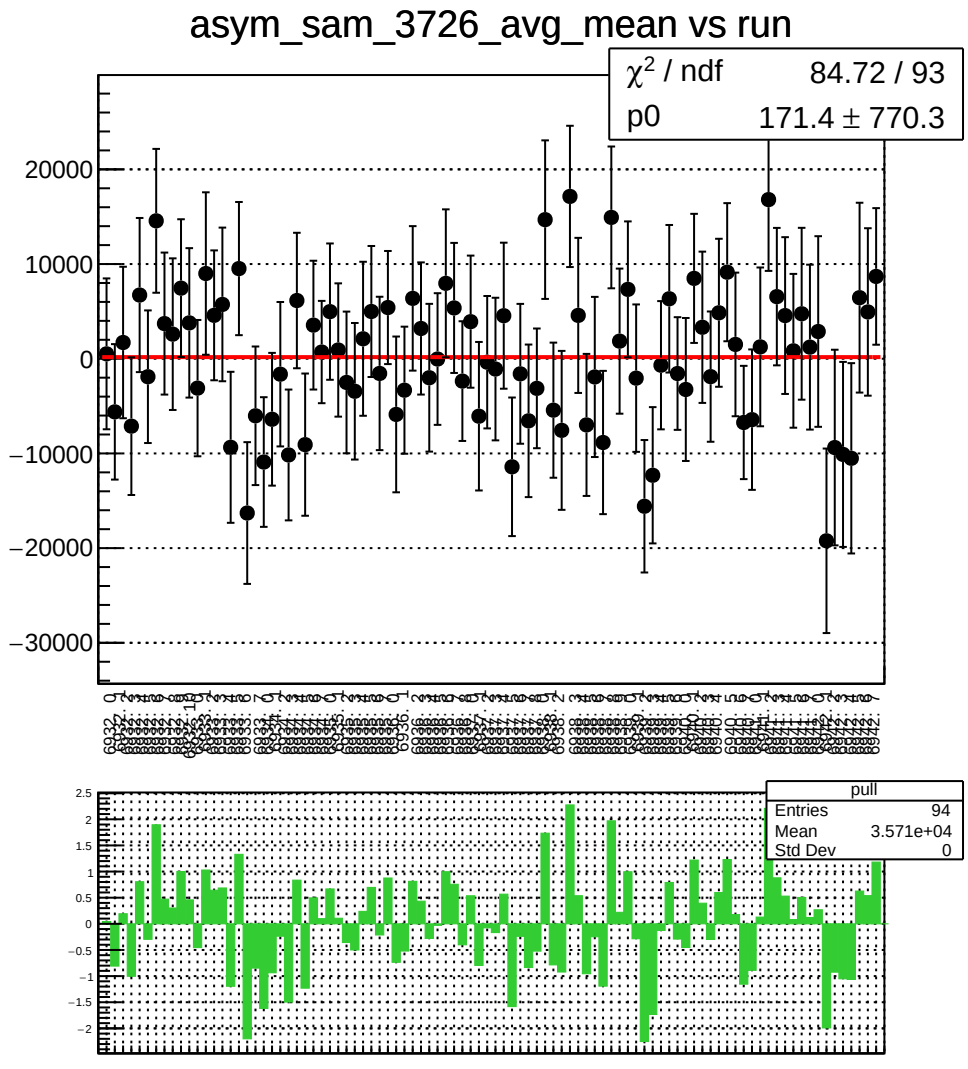

pull1D
Entries 94
Mean −0.000358
Std Dev 0.955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

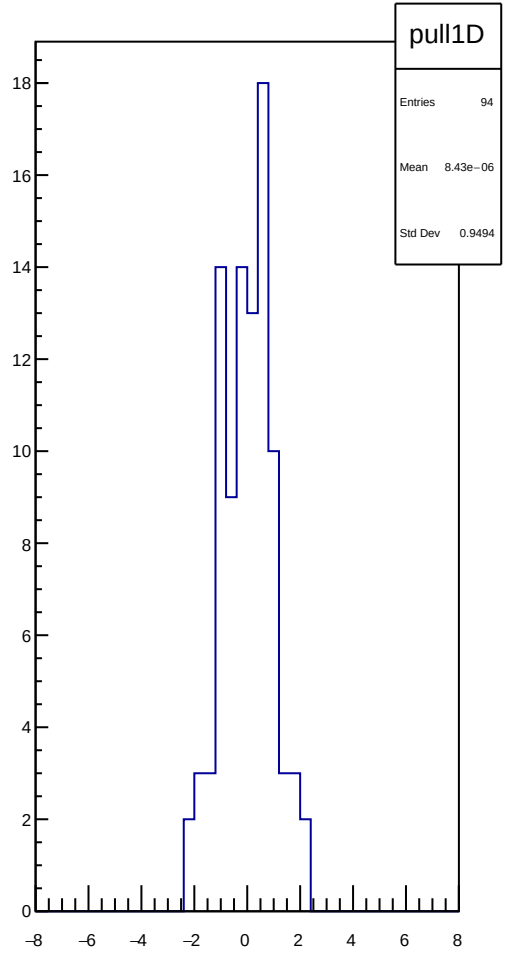

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.292e+04 / 93
p0 80.94 ± 0.06117
105
100
95
90
85
80
75
70

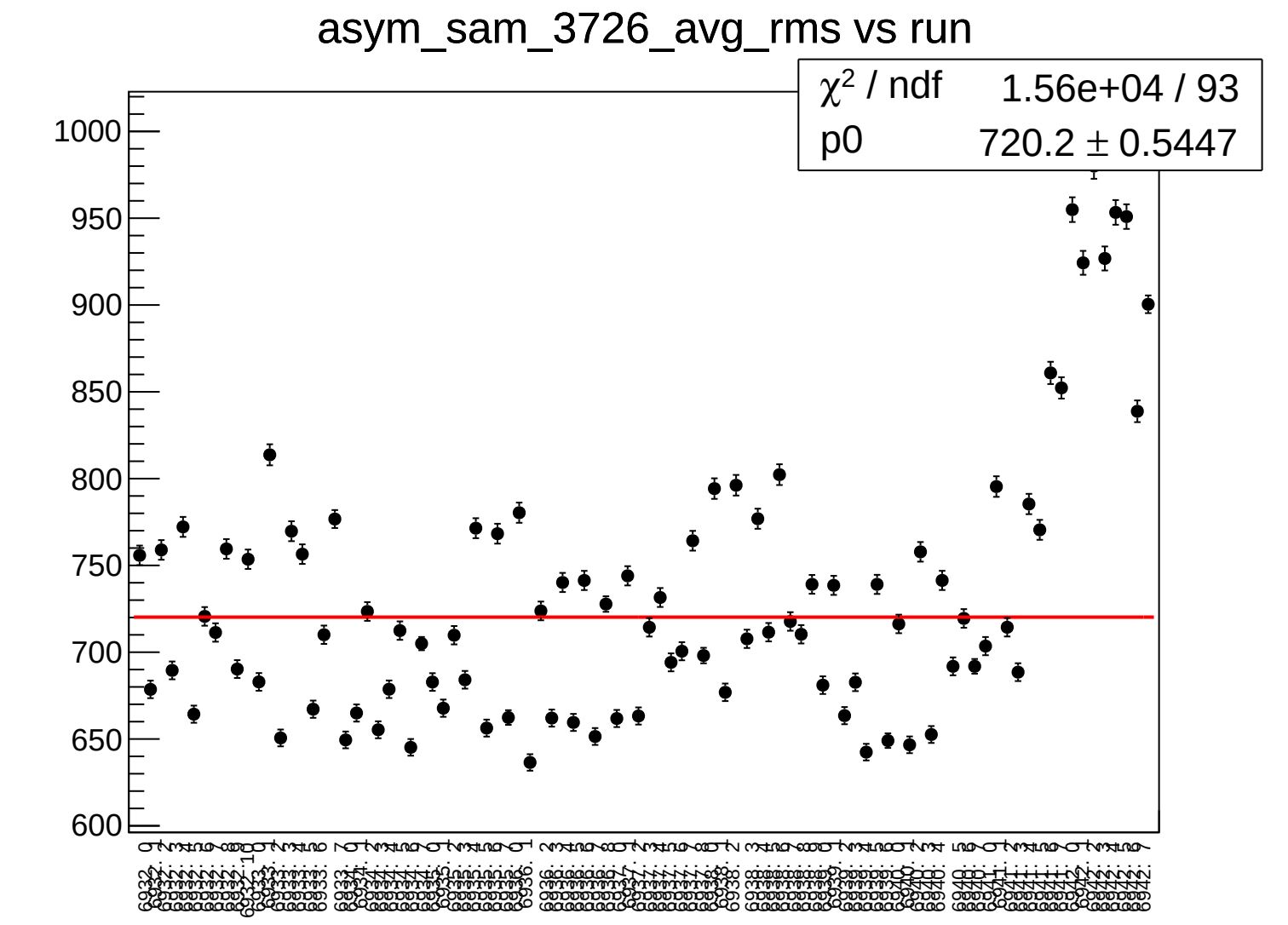

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.7 / 93
p0 −268.7 ± 750.8
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −90.39
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

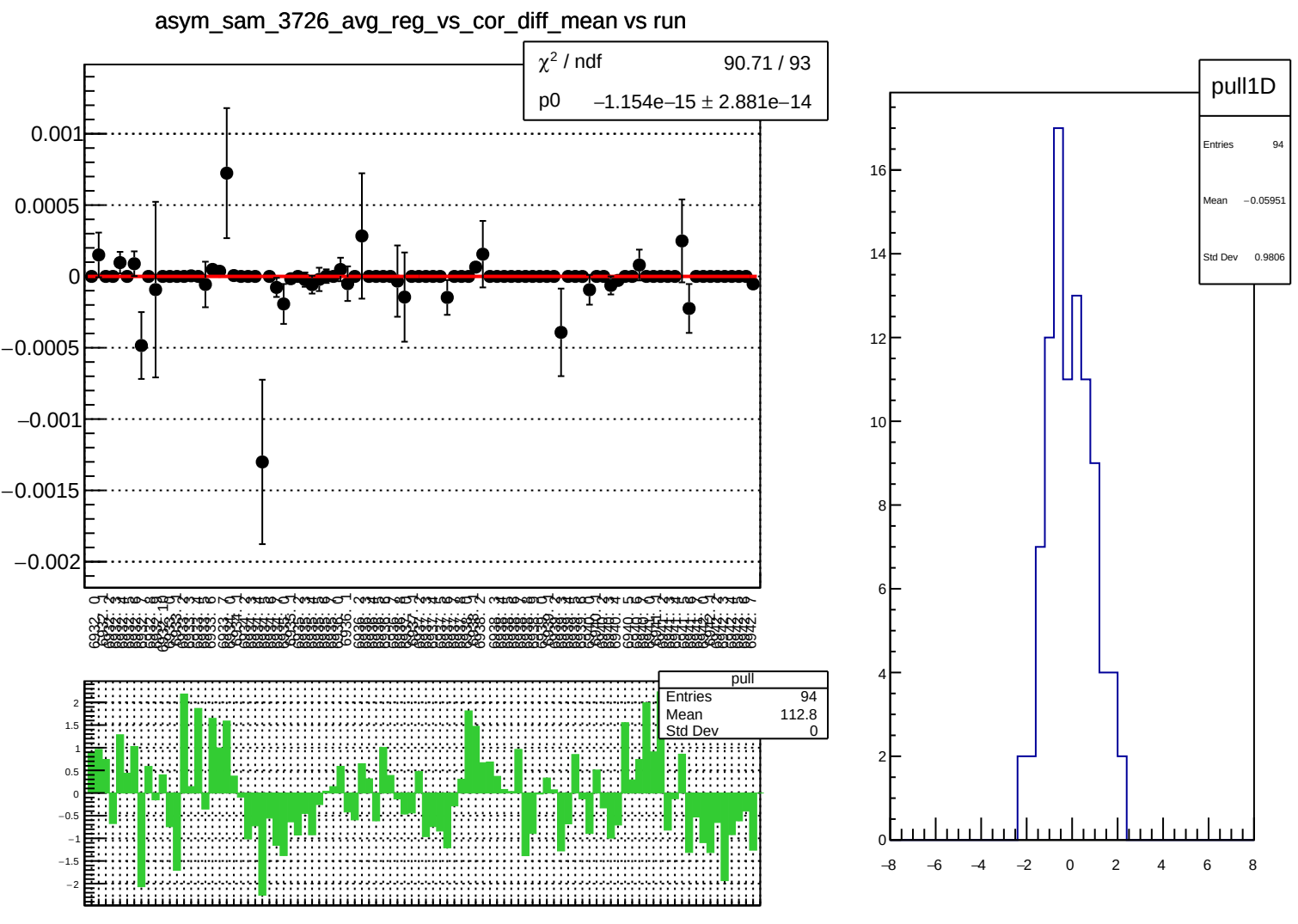

pull1D
Entries 94
Mean 0.002361
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

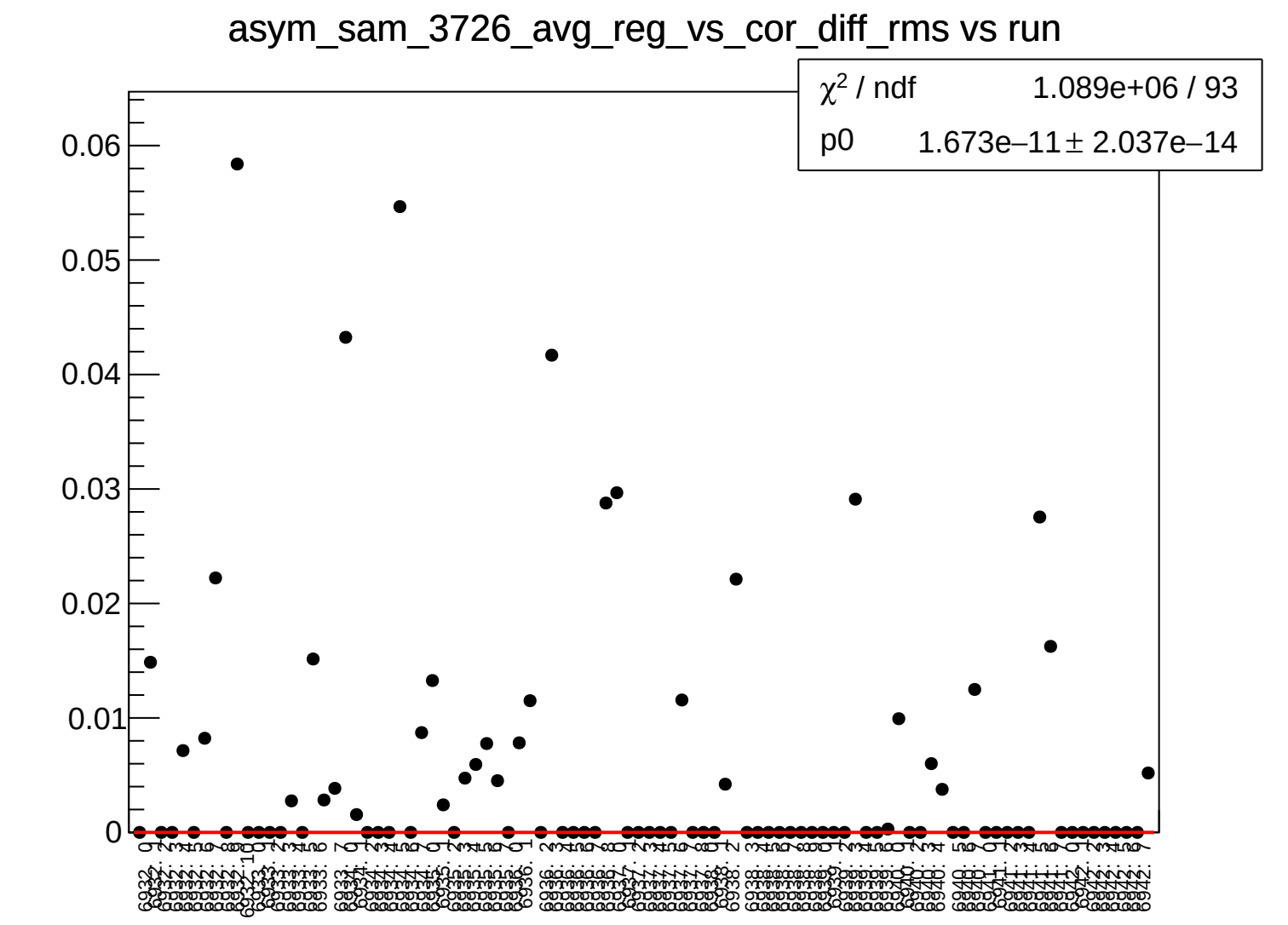

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.308e+04 / 93
p0 702.5 ± 0.5309
950
900
850
800
750
700
650
600

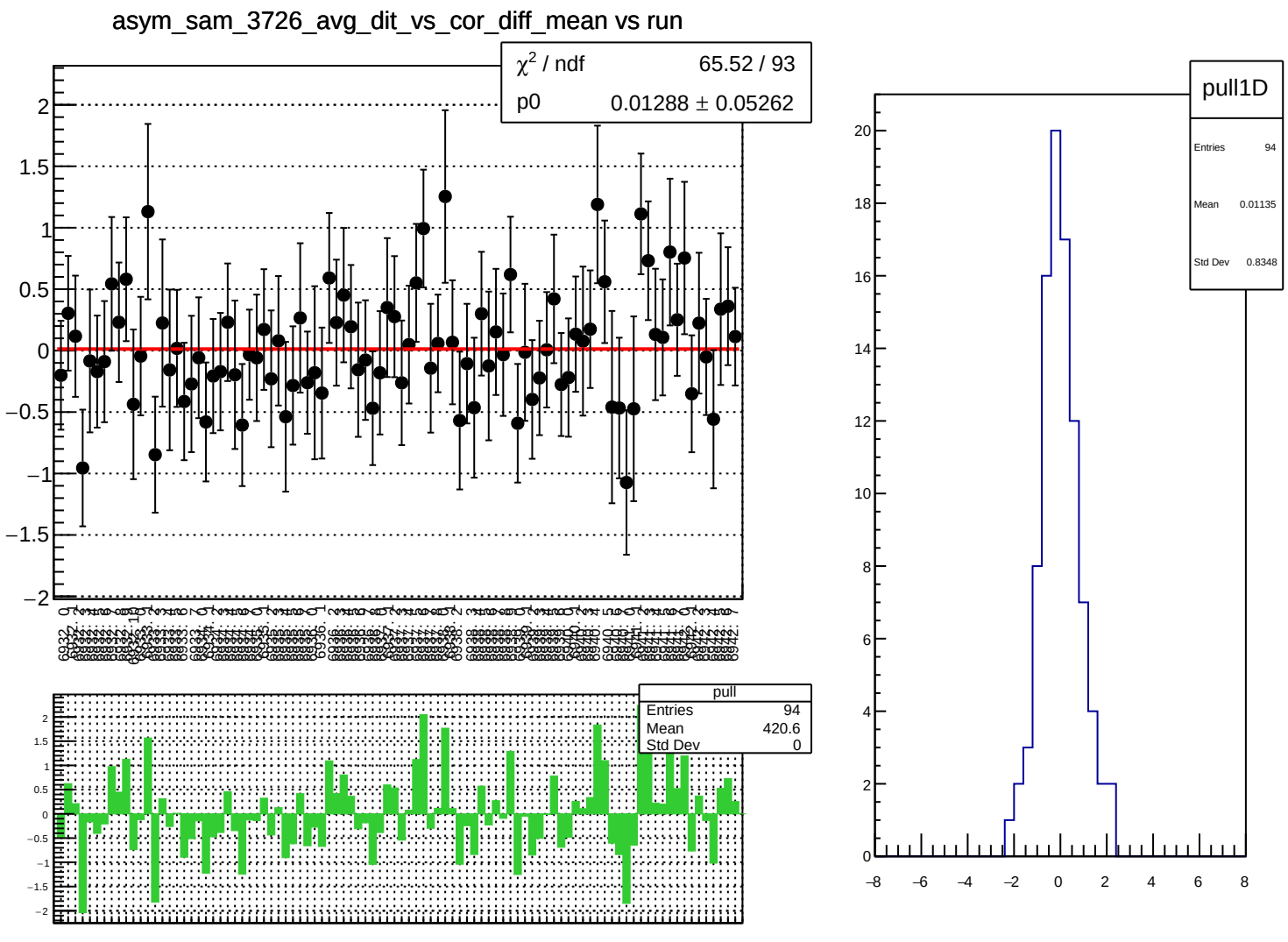

asym_sam_3726_avg_mean vs run
χ² / ndf 84.72 / 93
p0 171.4 ± 770.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 3.571e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

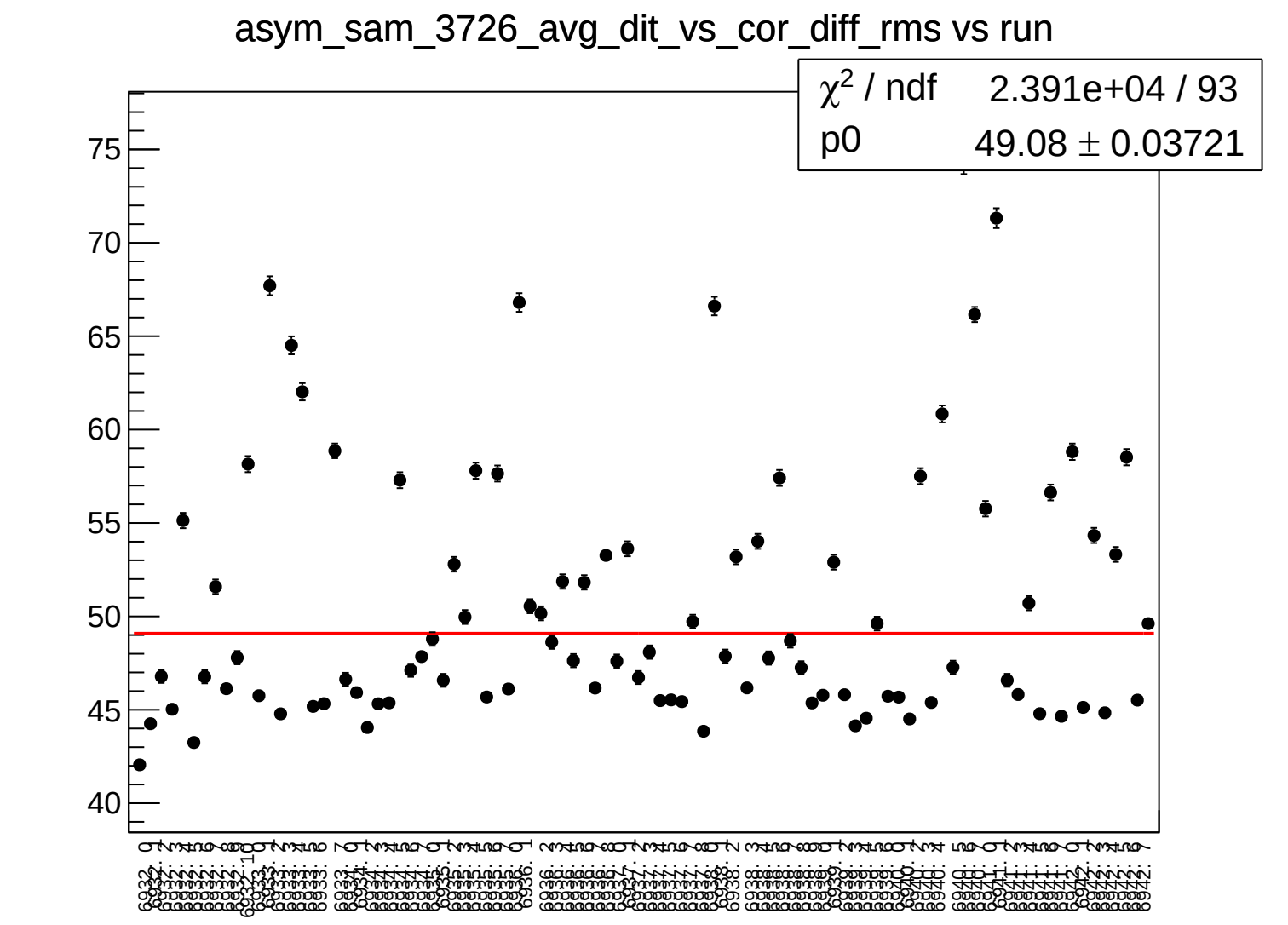

pull1D
Entries 94
Mean 8.43e−06
Std Dev 0.9494
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

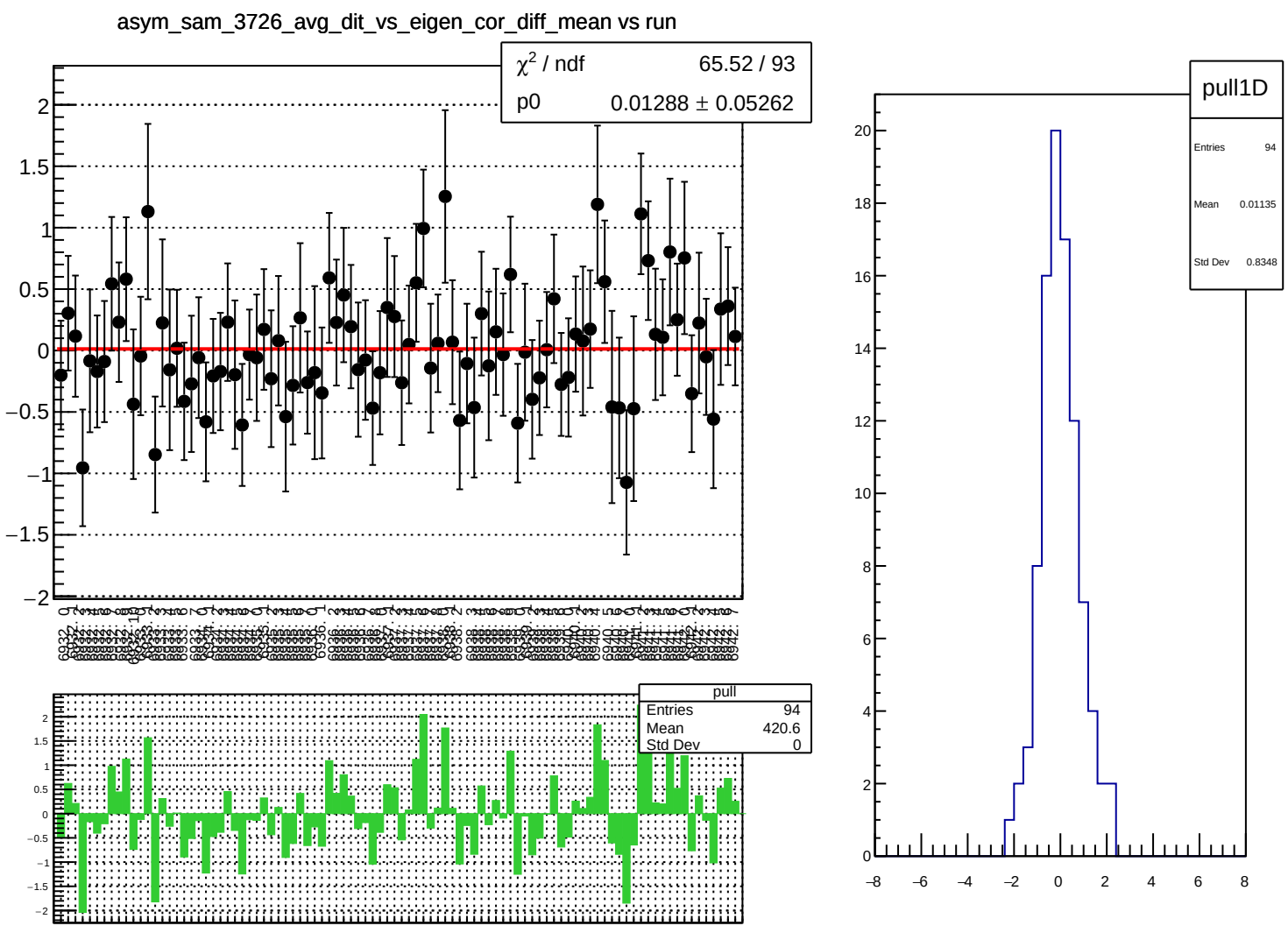

asym_sam_3726_avg_rms vs run
χ² / ndf 1.56e+04 / 93
p0 720.2 ± 0.5447
1000
950
900
850
800
750
700
650
600

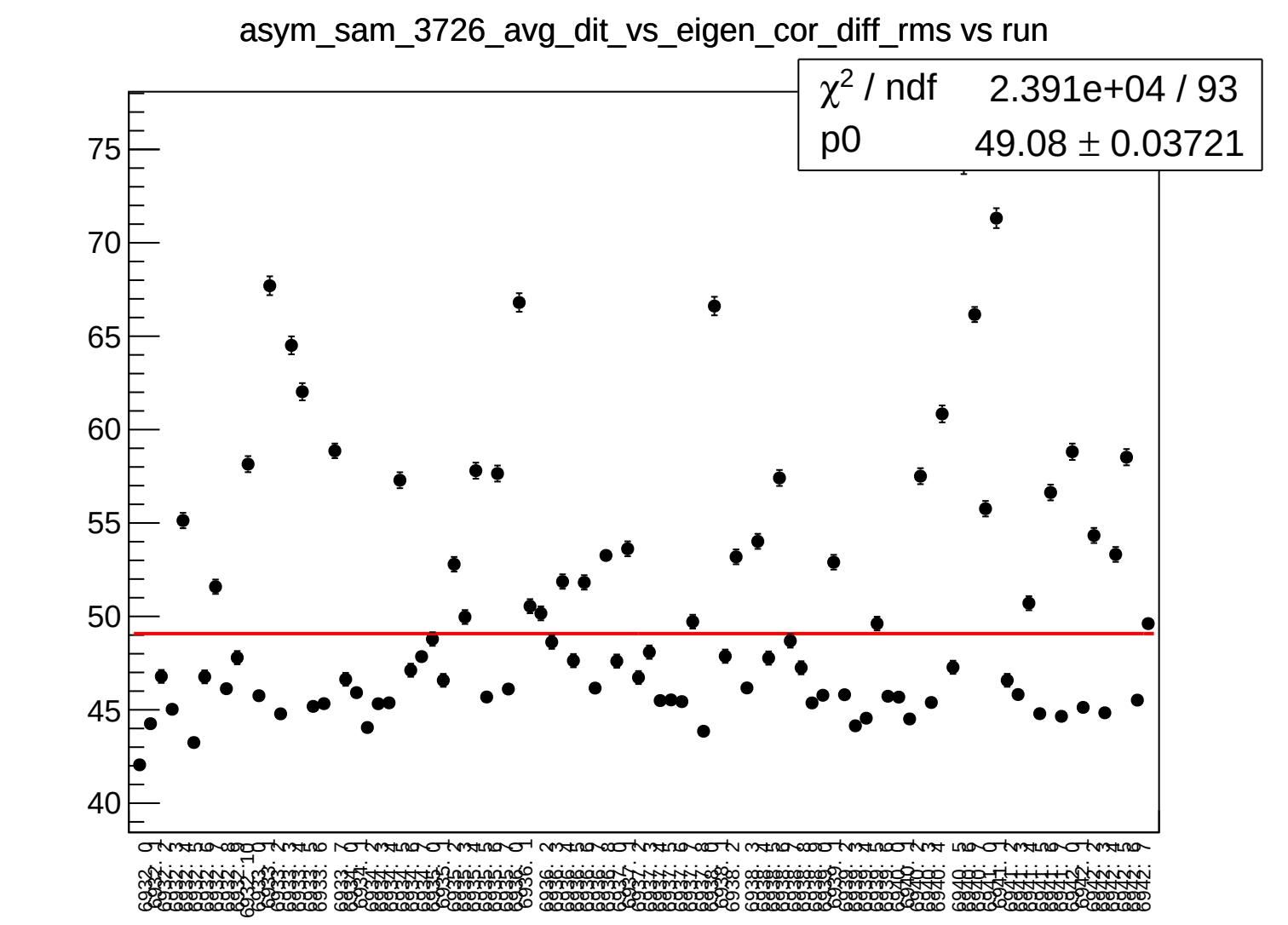

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.71 / 93
p0 −1.154e−15 ± 2.881e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 112.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.05951
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

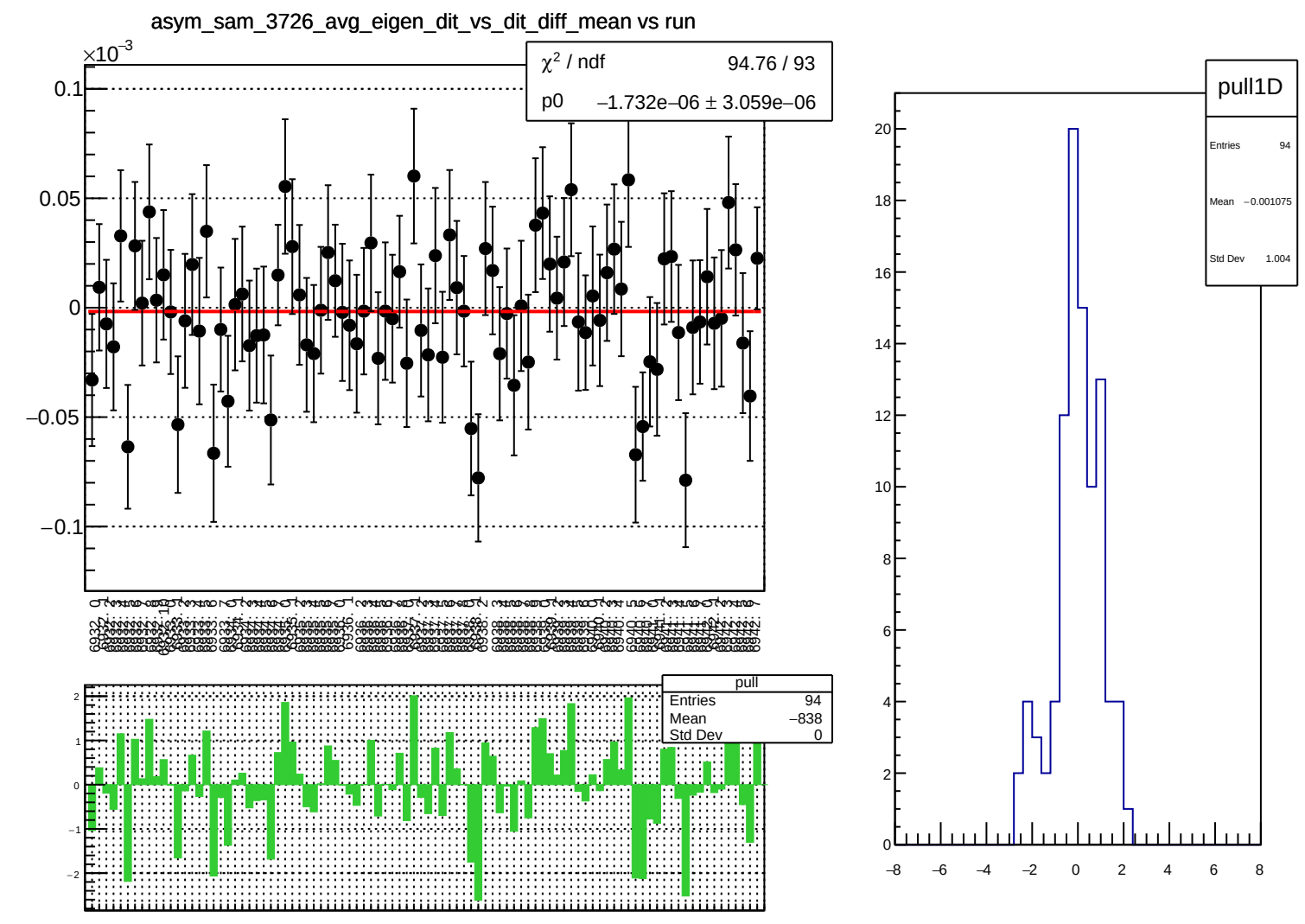

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.089e+06 / 93
p0 1.673e−11 ± 2.037e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

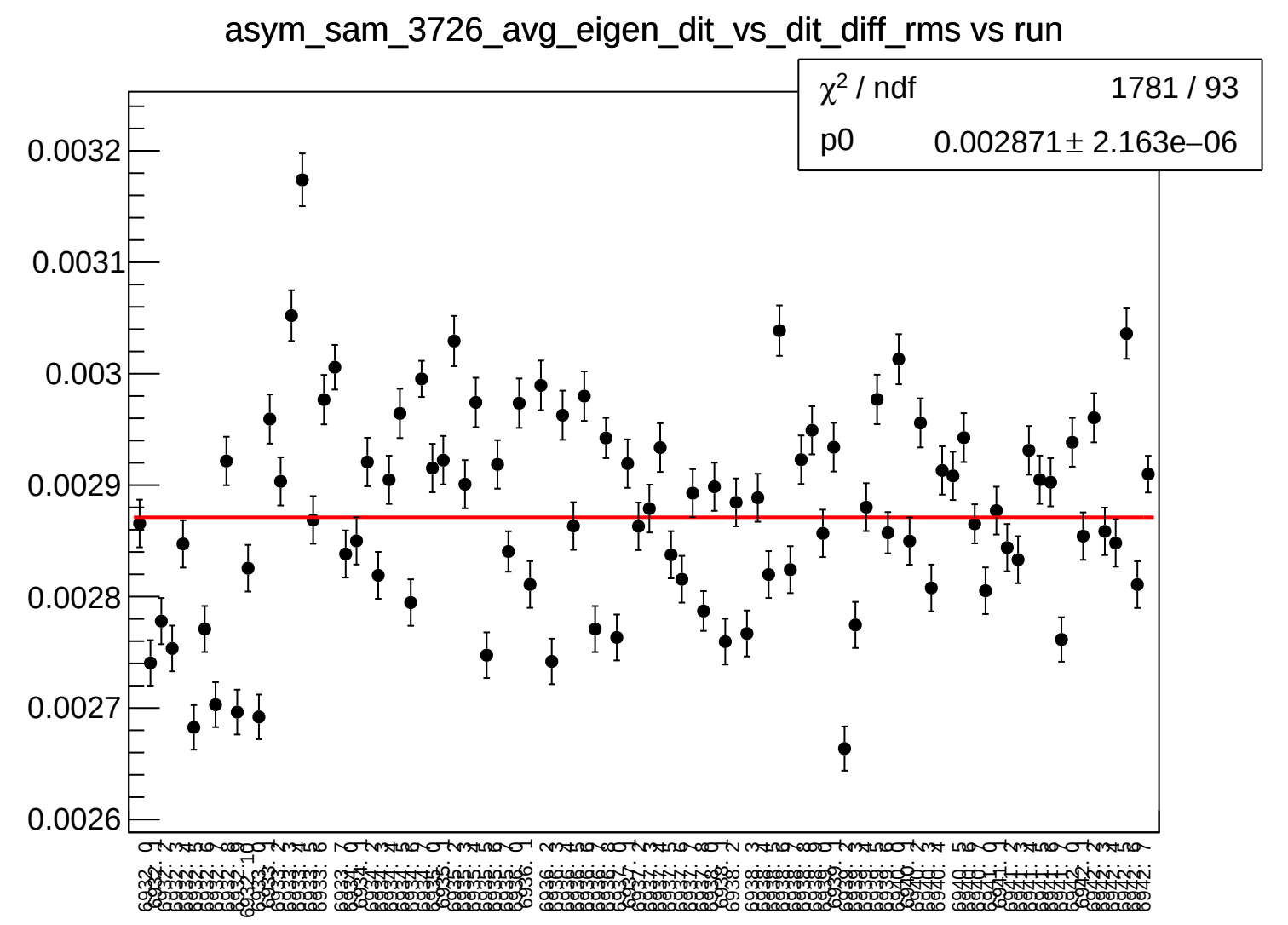

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 65.52 / 93
p0 0.01288 ± 0.05262
pull
Entries 94
Mean 420.6
Std Dev 0
pull1D
Entries 94
Mean 0.01135
Std Dev 0.8348

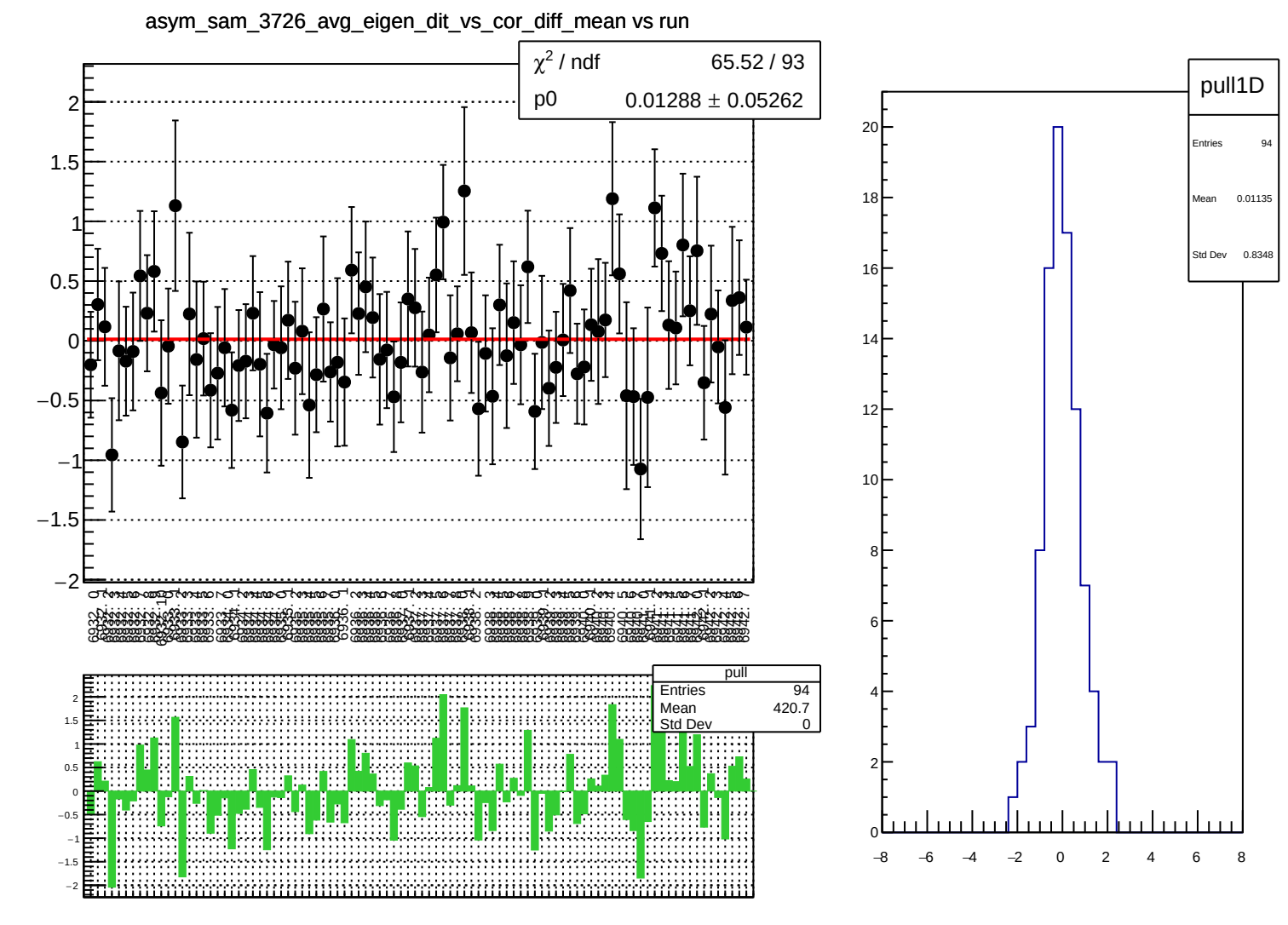

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.391e+04 / 93
p0 49.08 ± 0.03721
75
70
65
60
55
50
45
40

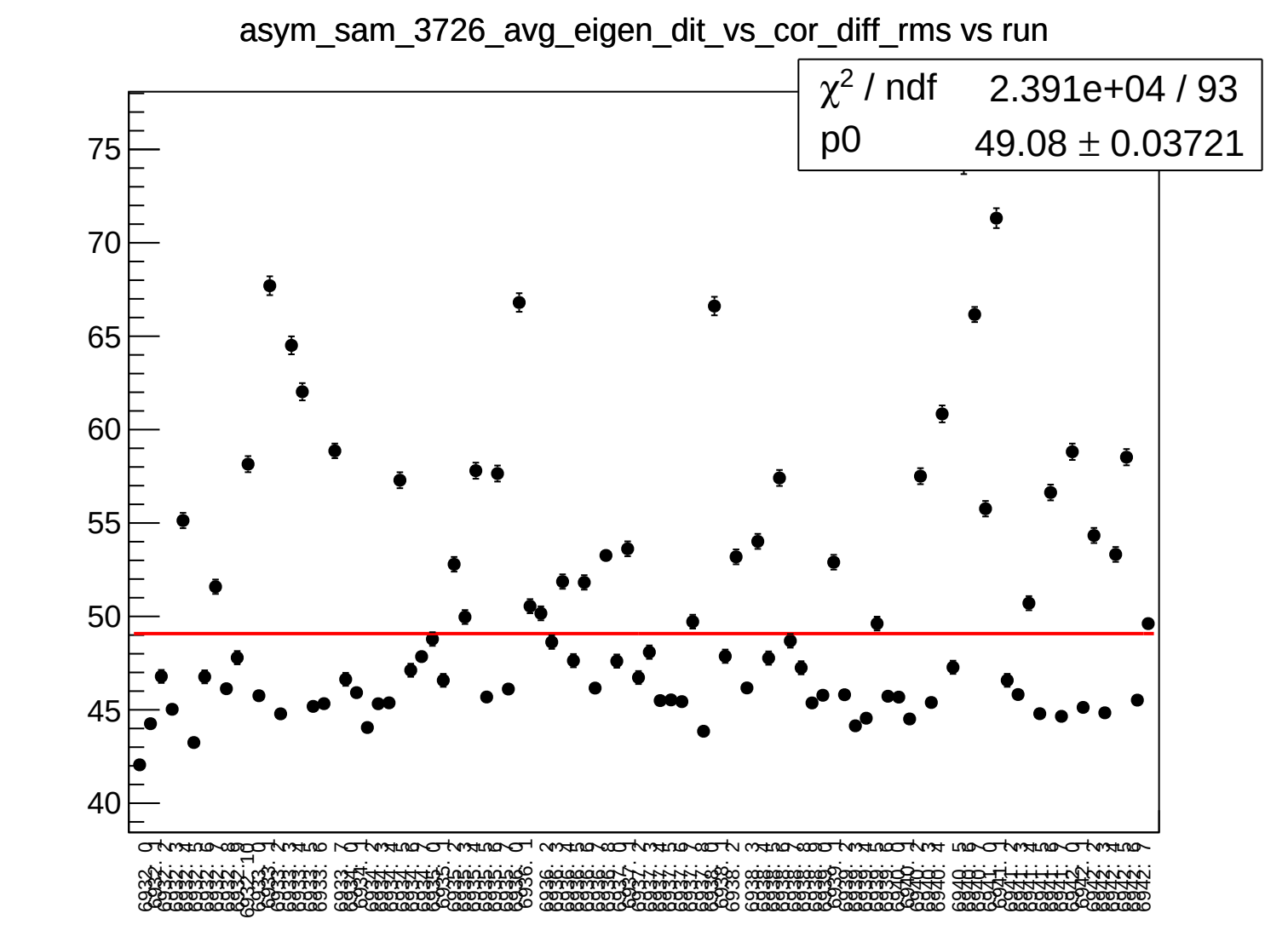

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.52 / 93
p0 0.01288 ± 0.05262
pull
Entries 94
Mean 420.6
Std Dev 0
pull1D
Entries 94
Mean 0.01135
Std Dev 0.8348

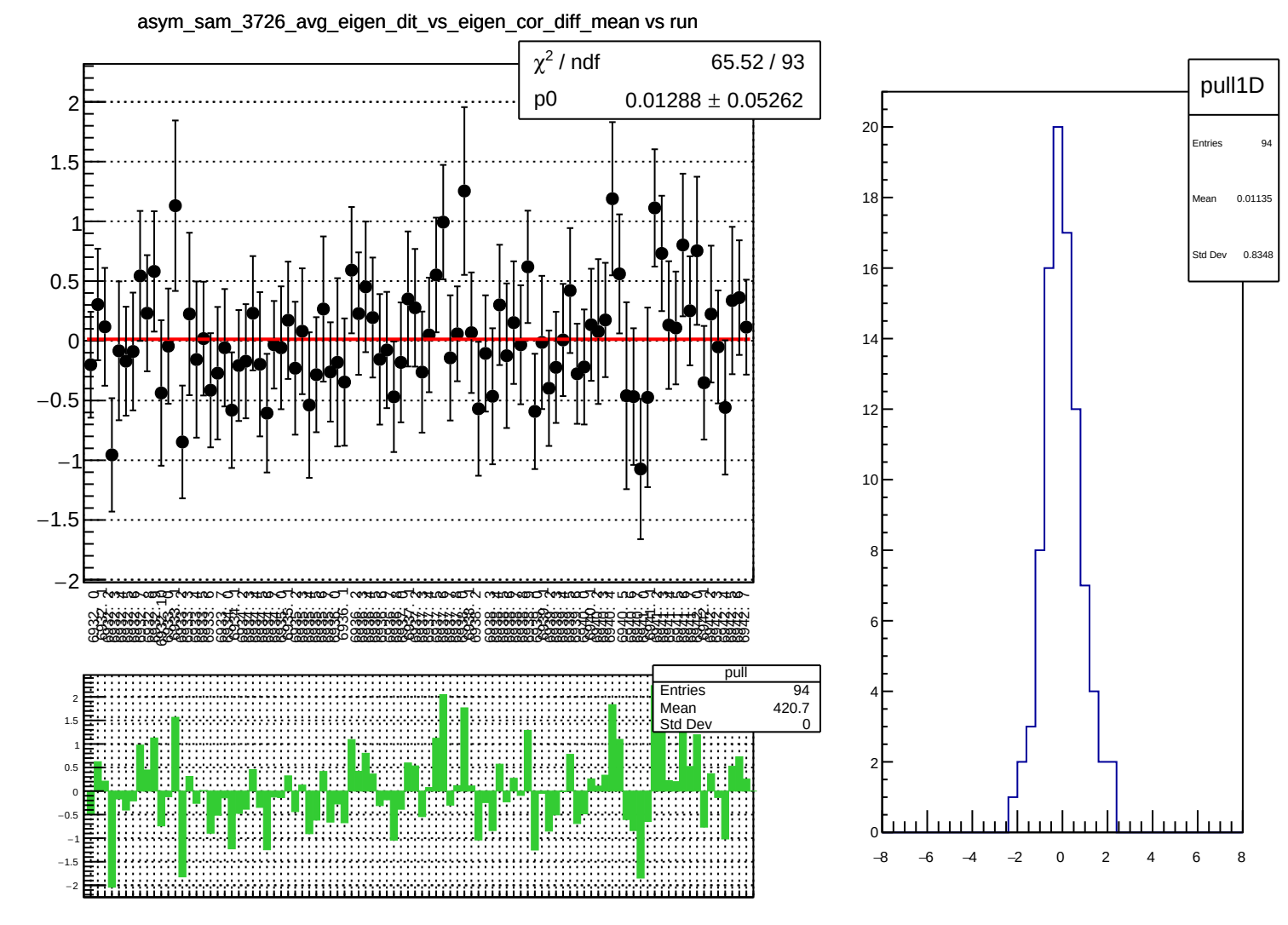

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.391e+04 / 93
p0 49.08 ± 0.03721
75
70
65
60
55
50
45
40

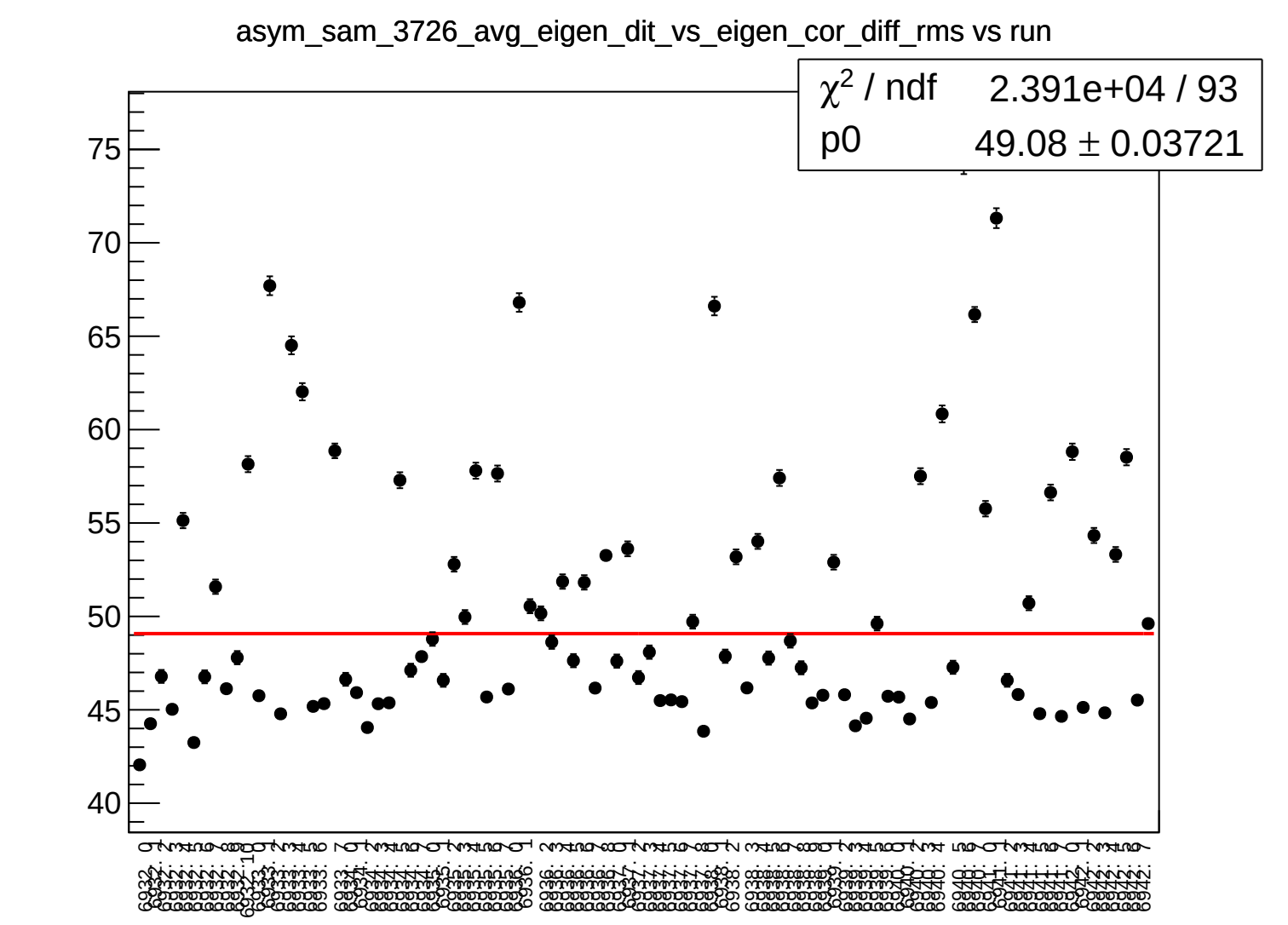

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 94.76 / 93
p0 −1.732e−06 ± 3.059e−06
pull
Entries 94
Mean −838
Std Dev 0
pull1D
Entries 94
Mean −0.001075
Std Dev 1.004

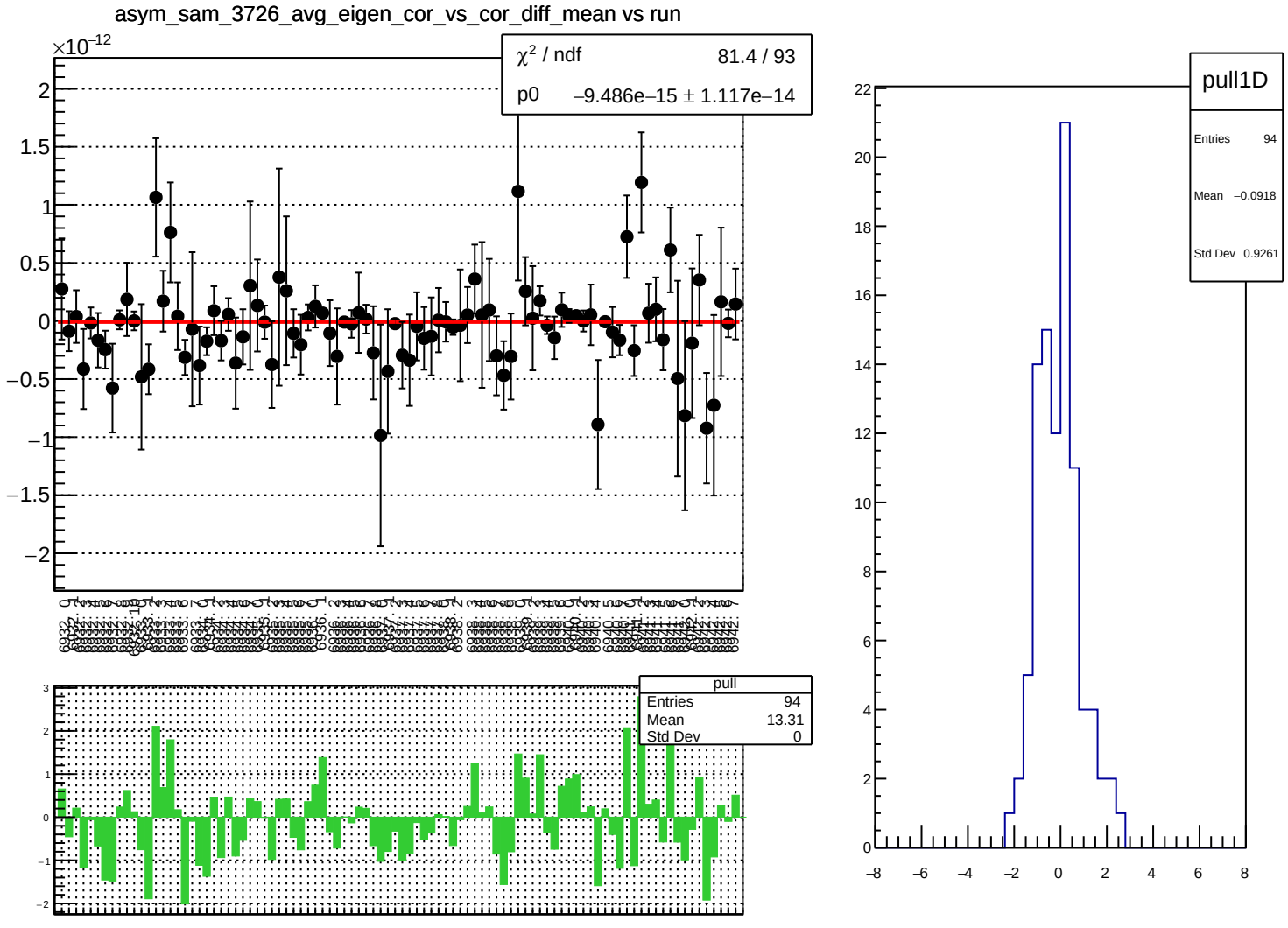

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1781 / 93
p0 0.002871 ± 2.163e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

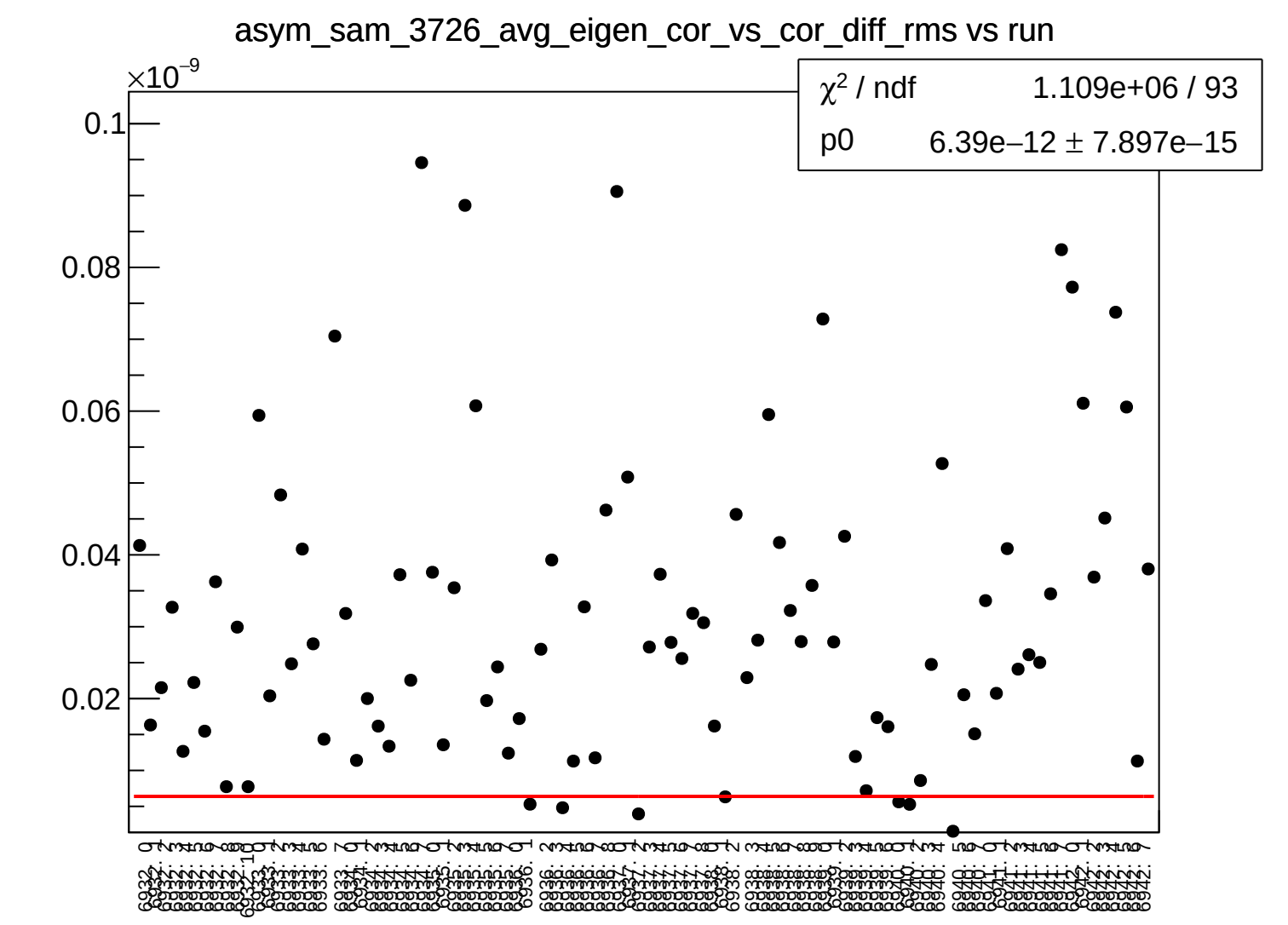

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 65.52 / 93
p0 0.01288 ± 0.05262
pull
Entries 94
Mean 420.7
Std Dev 0
pull1D
Entries 94
Mean 0.01135
Std Dev 0.8348

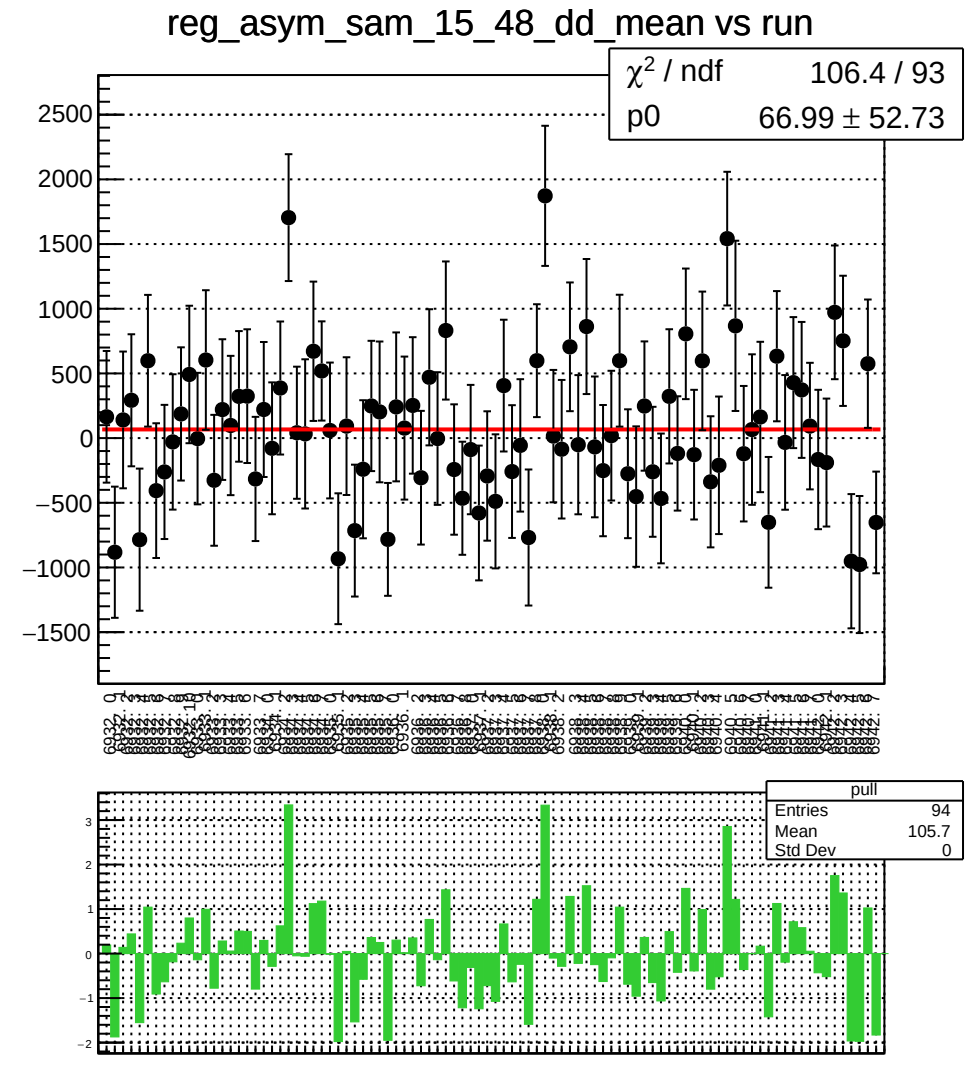

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.391e+04 / 93
p0 49.08 ± 0.03721
75
70
65
60
55
50
45
40

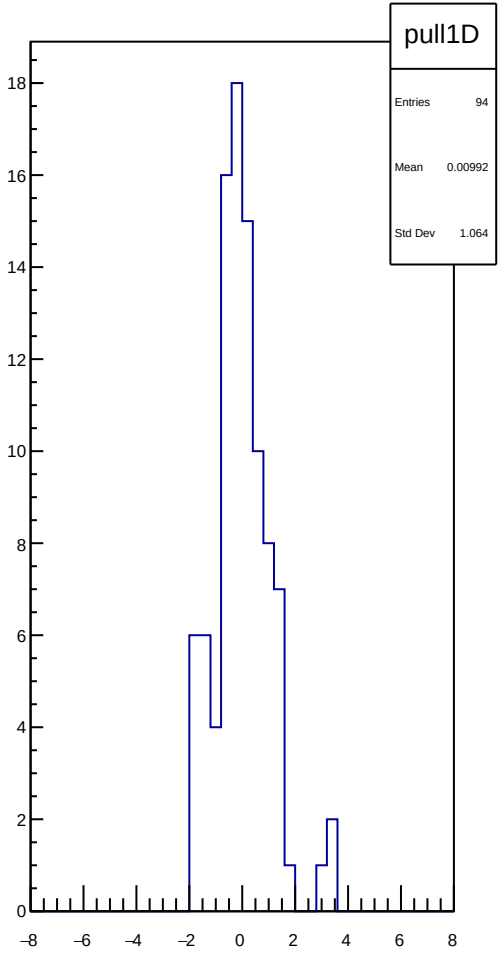

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 65.52 / 93
p0 0.01288 ± 0.05262
pull
Entries 94
Mean 420.7
Std Dev 0
pull1D
Entries 94
Mean 0.01135
Std Dev 0.8348

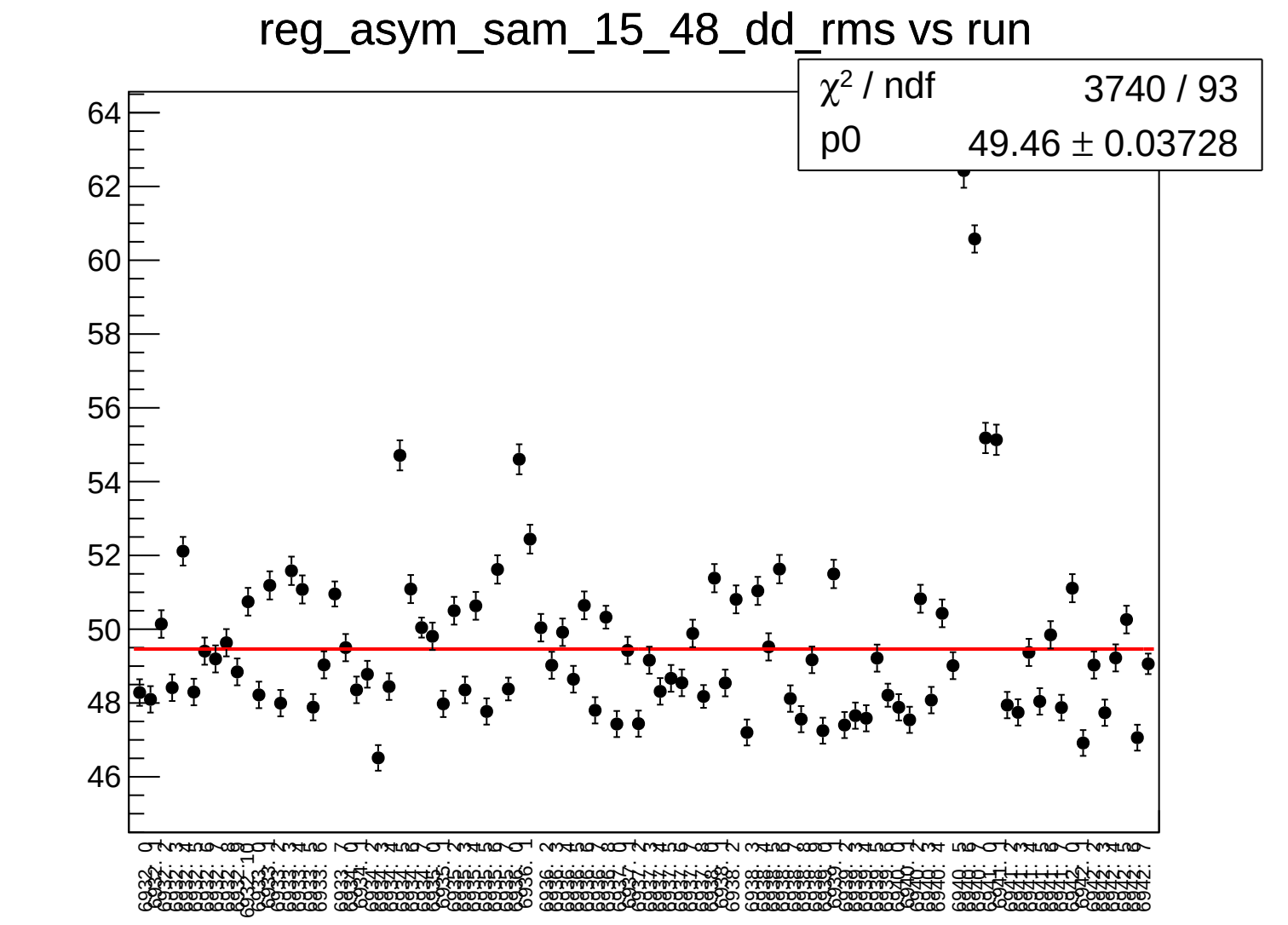

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.391e+04 / 93
p0 49.08 ± 0.03721
75
70
65
60
55
50
45
40

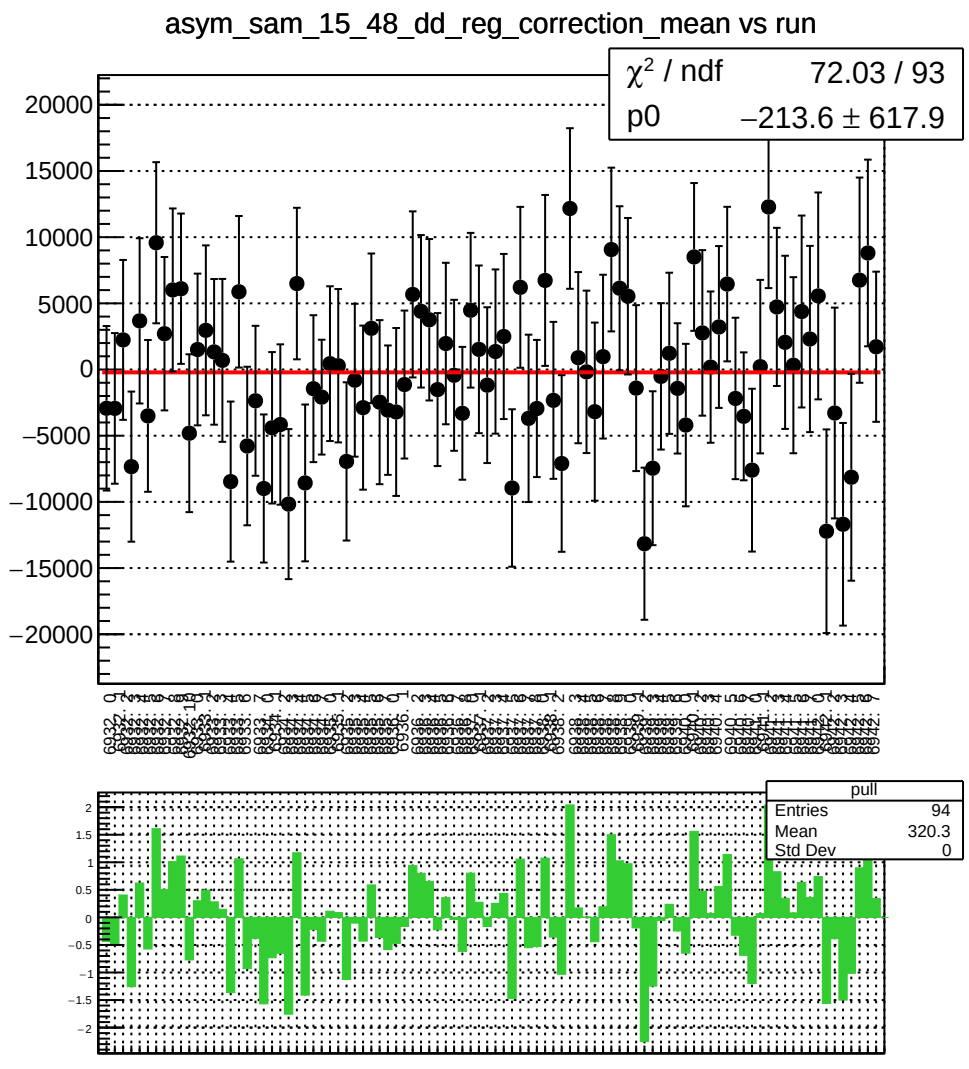

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.4 / 93
p0 −9.486e−15 ± 1.117e−14
pull
Entries 94
Mean 13.31
Std Dev 0
pull1D
Entries 94
Mean −0.0918
Std Dev 0.9261

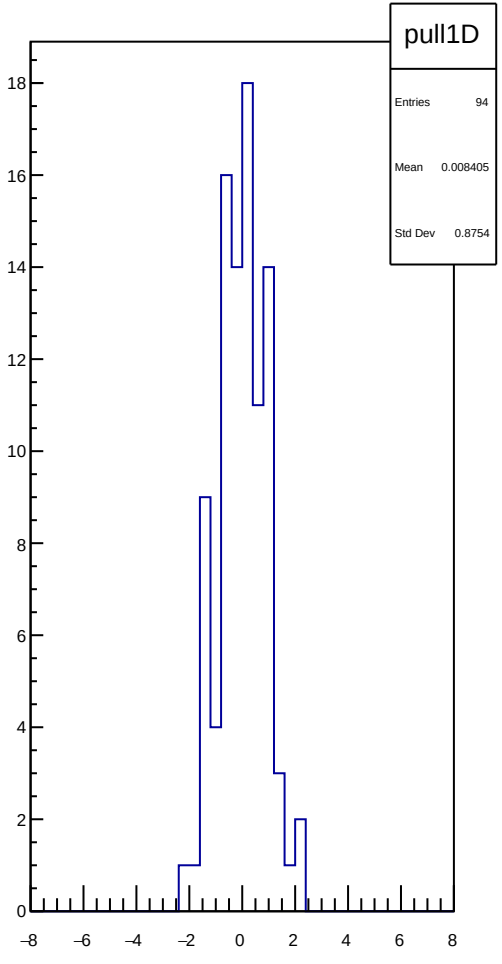

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 1.109e+06 / 93
p0 6.39e−12 ± 7.897e−15

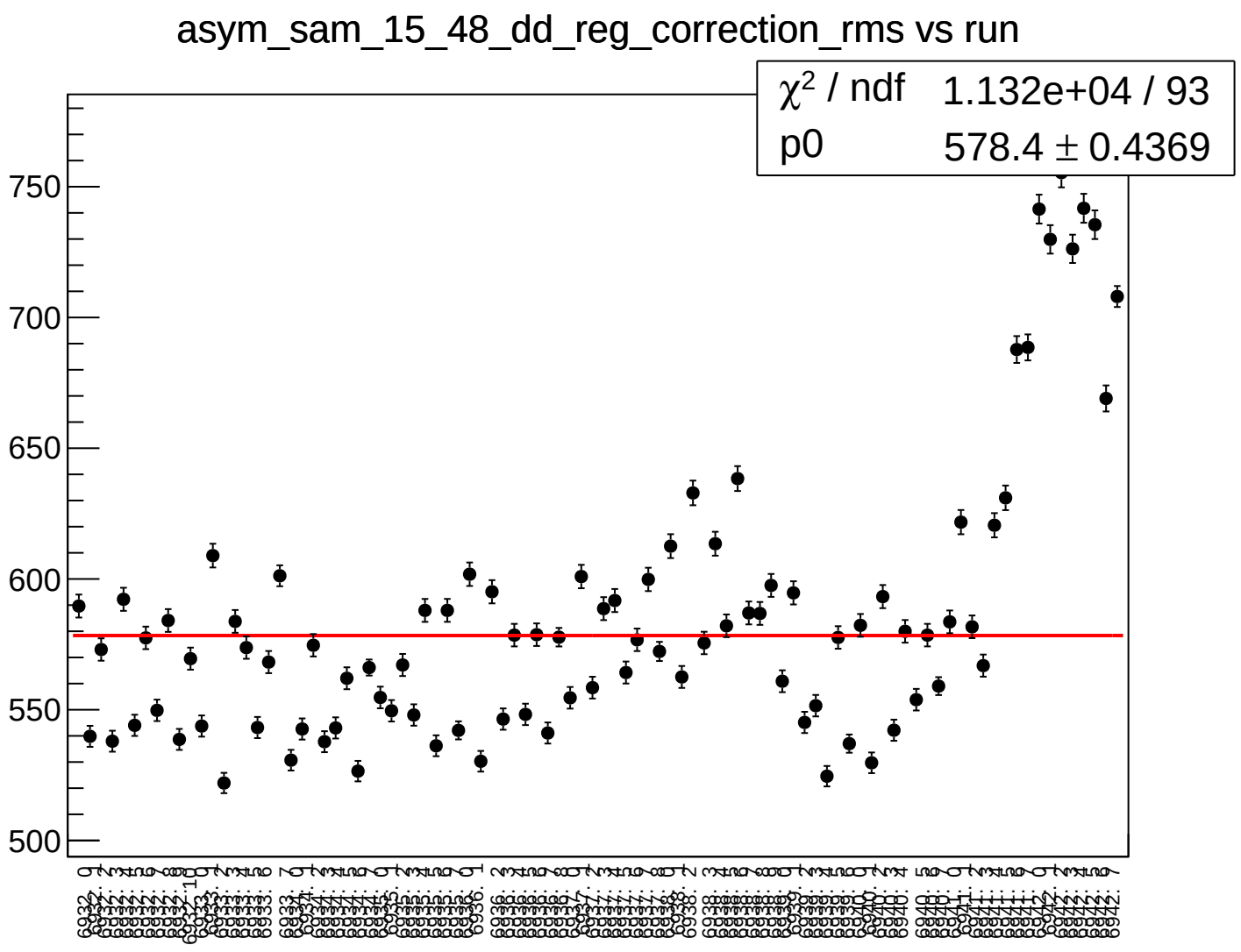

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.4 / 93
p0 66.99 ± 52.73
pull
Entries 94
Mean 105.7
Std Dev 0

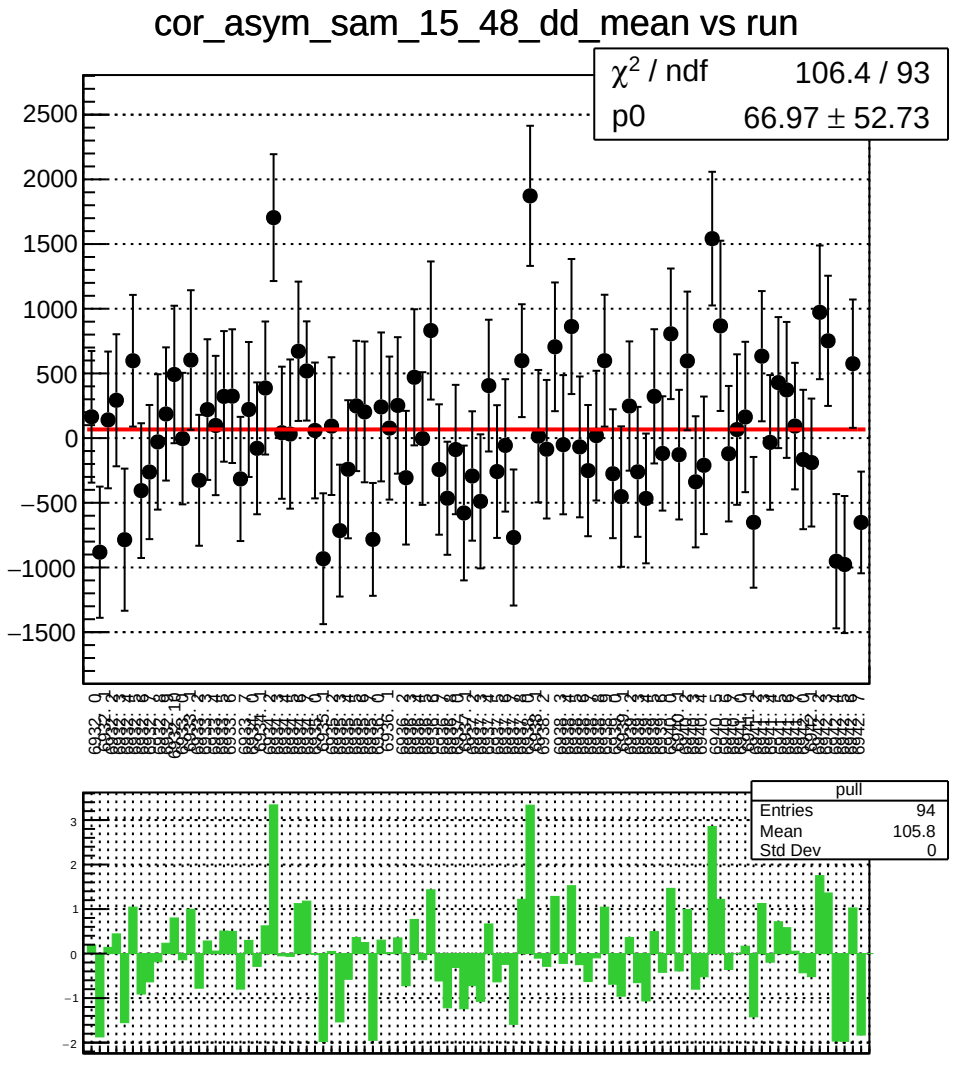

pull1D
Entries 94
Mean 0.00992
Std Dev 1.064

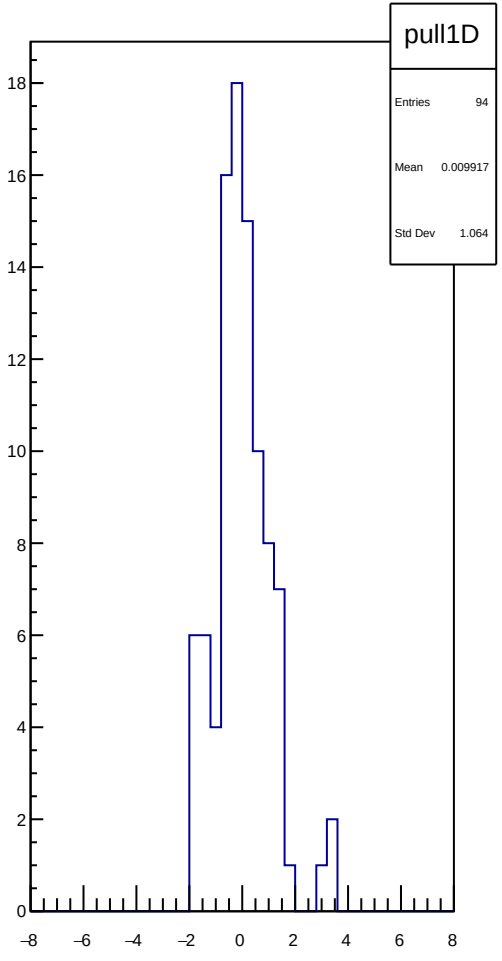

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 3740 / 93
p0 49.46 ± 0.03728
64
62
60
58
56
54
52
50
48
46

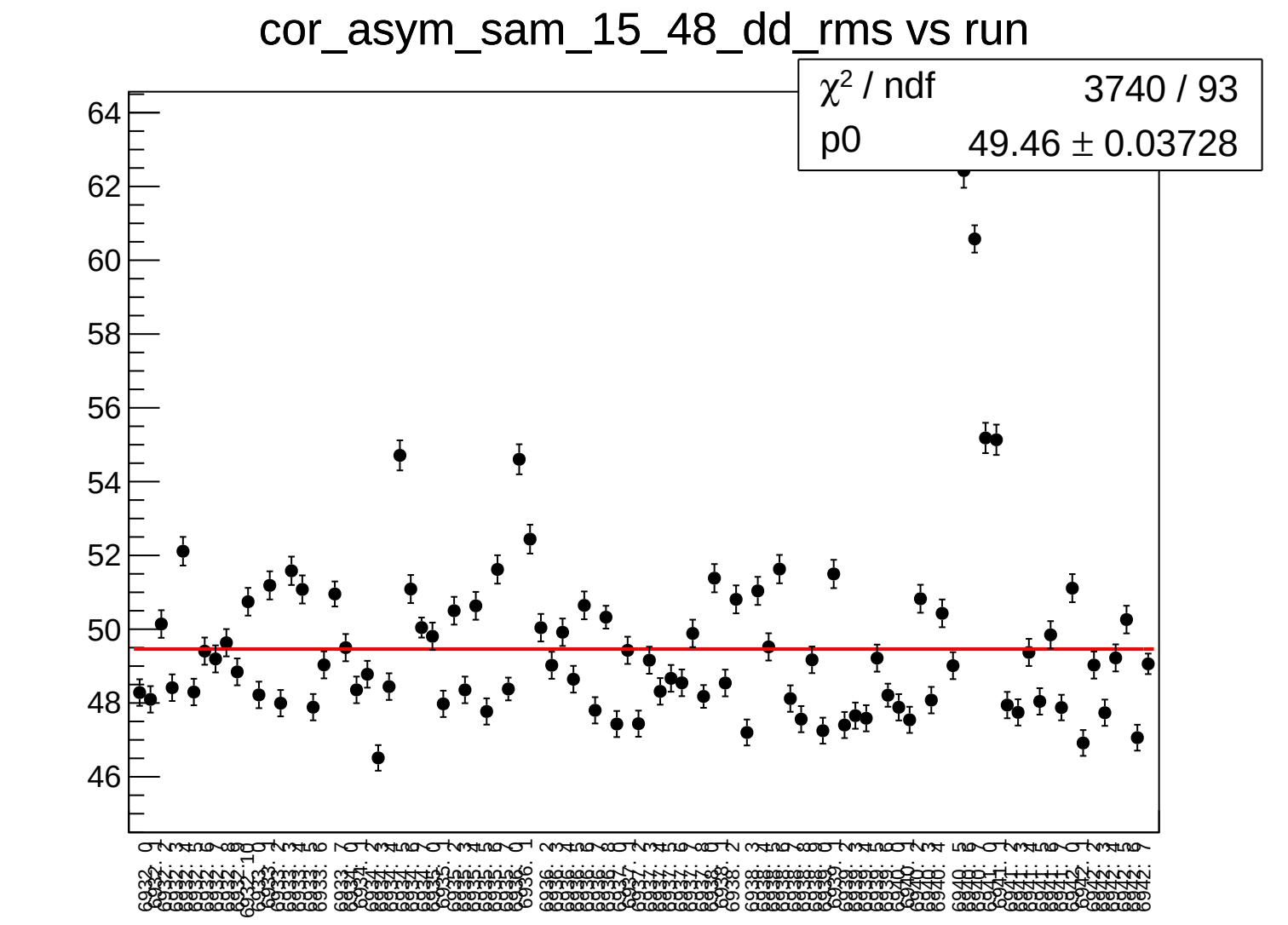

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 72.03 / 93
p0 −213.6 ± 617.9
pull
Entries 94
Mean 320.3
Std Dev 0

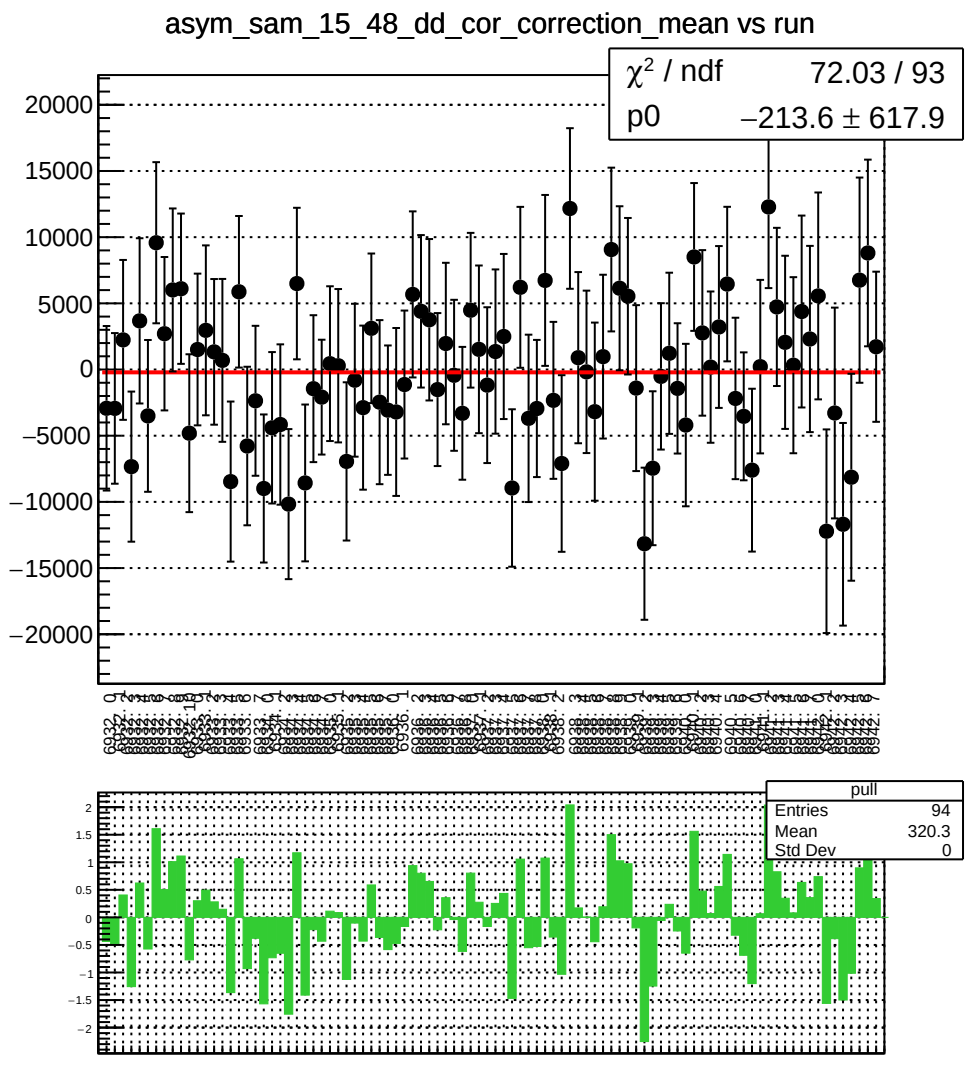

pull1D
Entries 94
Mean 0.008405
Std Dev 0.8754

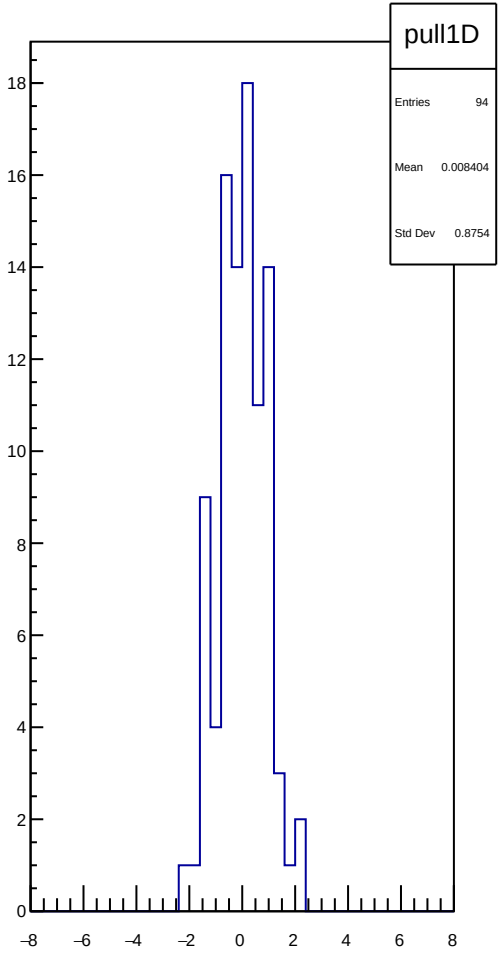

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 578.4 ± 0.4369
750
700
650
600
550
500

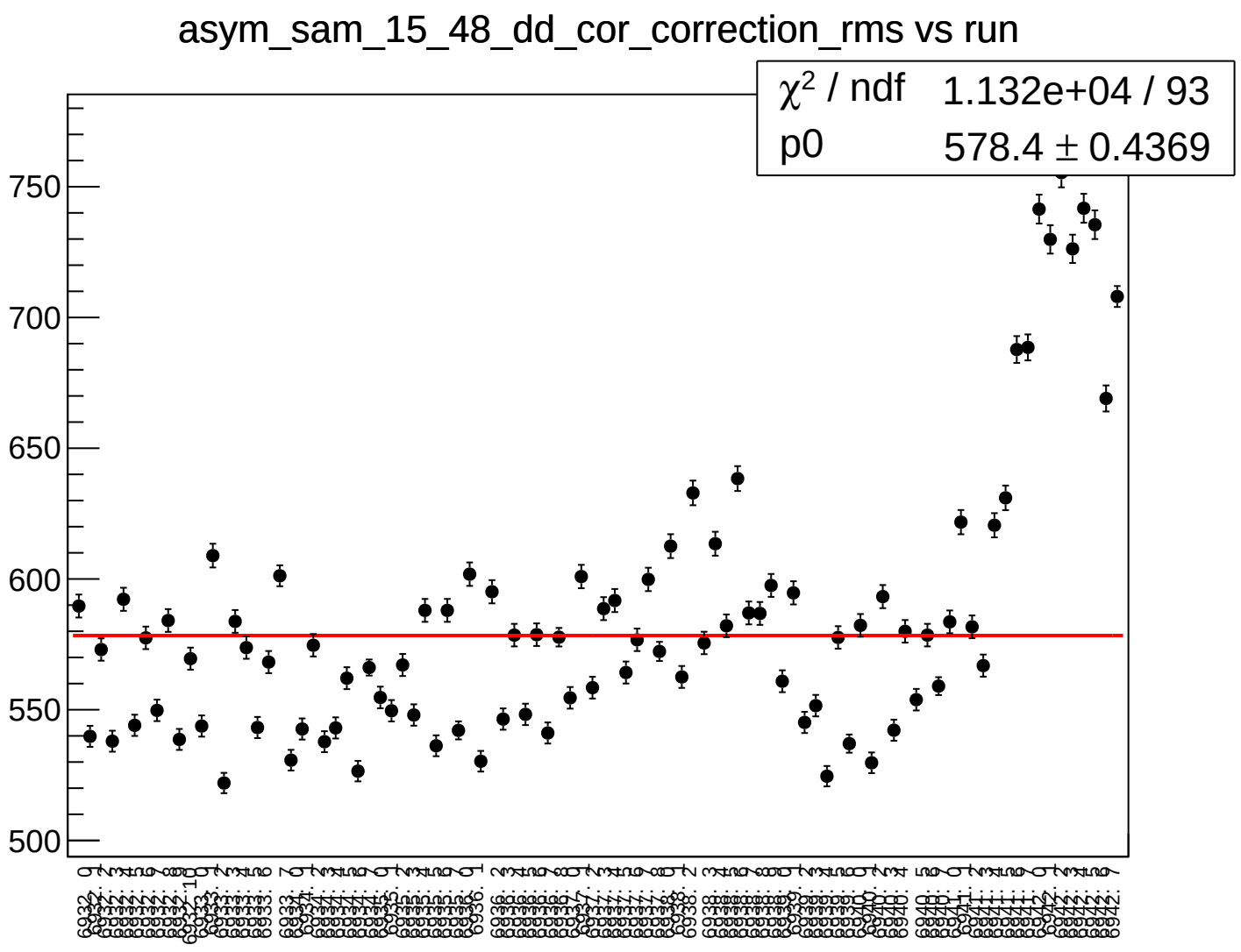

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.4 / 93
p0 66.97 ± 52.73
pull
Entries 94
Mean 105.8
Std Dev 0

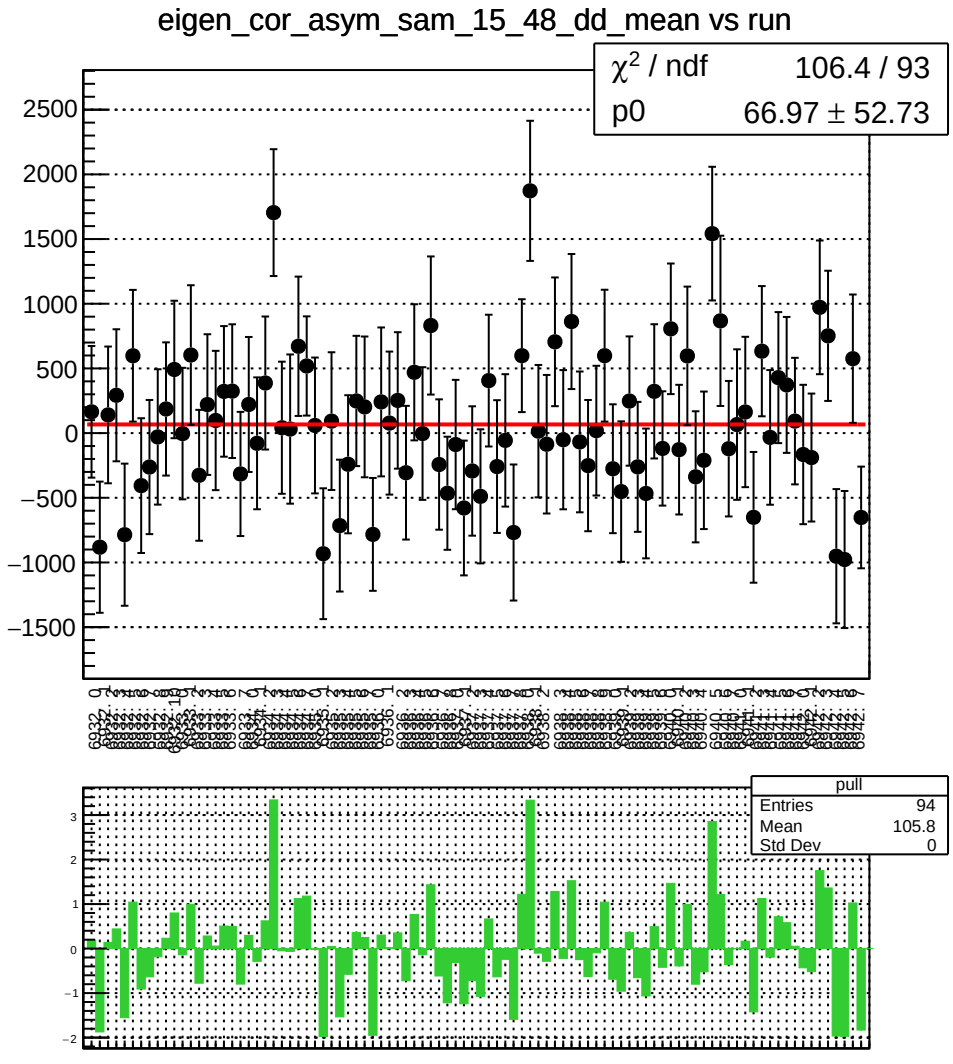

pull1D
Entries 94
Mean 0.009917
Std Dev 1.064

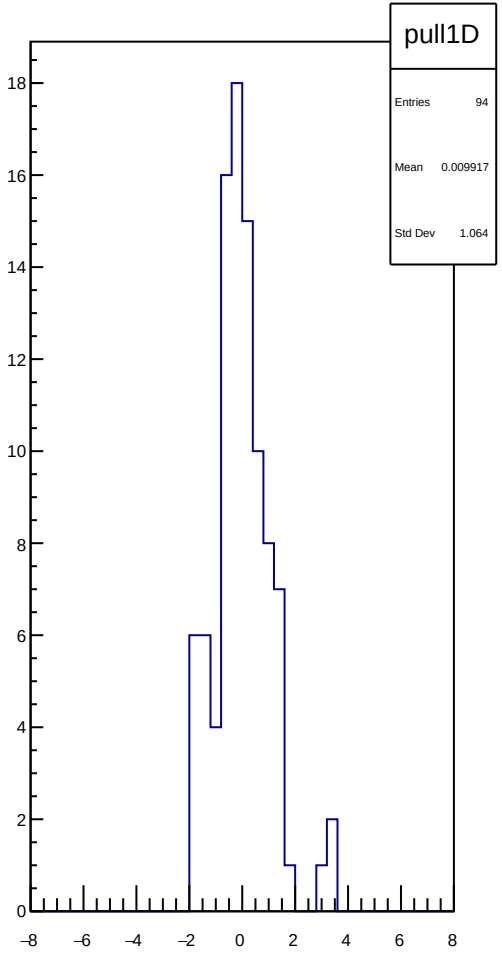

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3740 / 93
p0 49.46 ± 0.03728
64
62
60
58
56
54
52
50
48
46

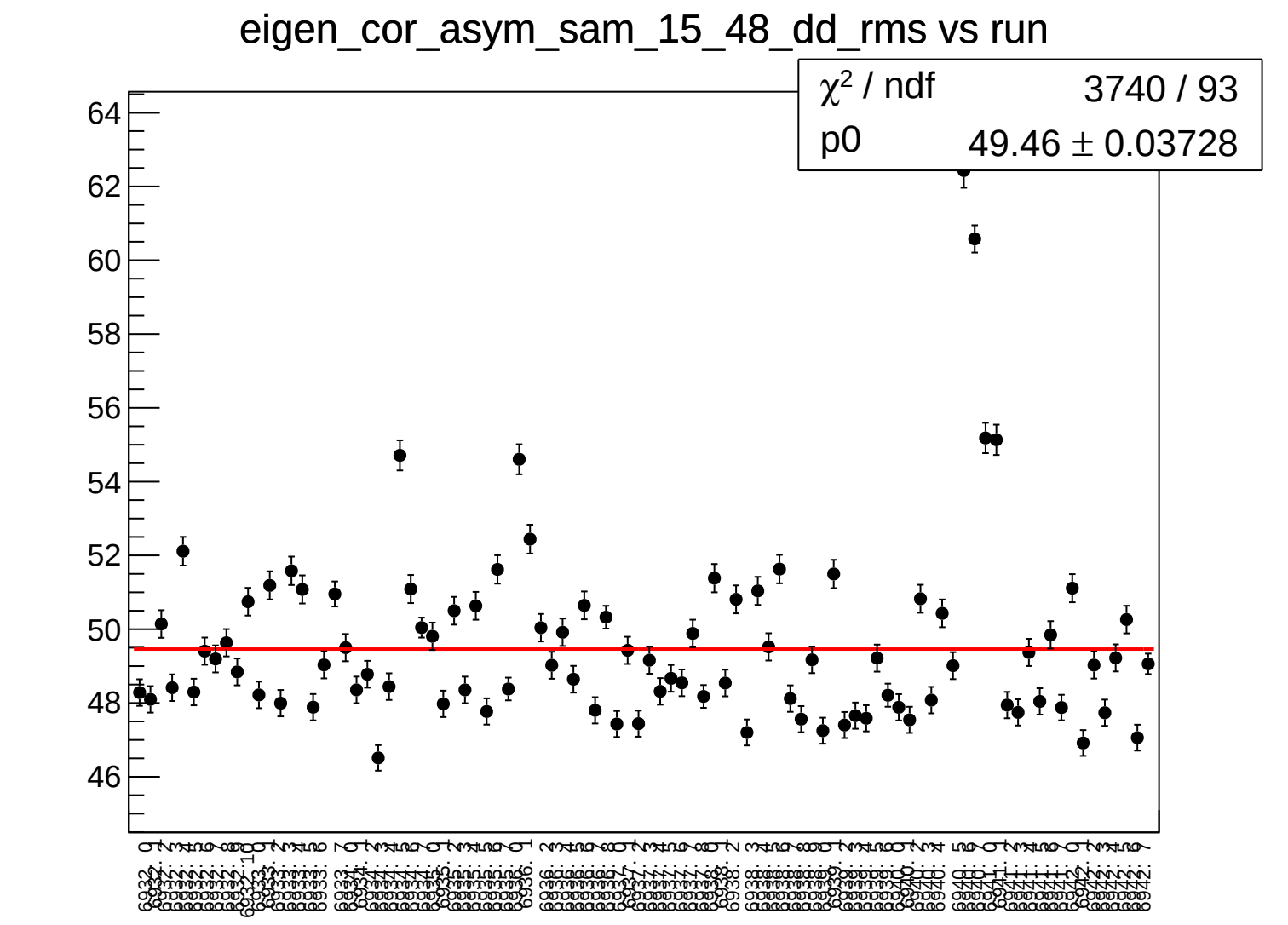

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 72.03 / 93
p0 −213.6 ± 617.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 320.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

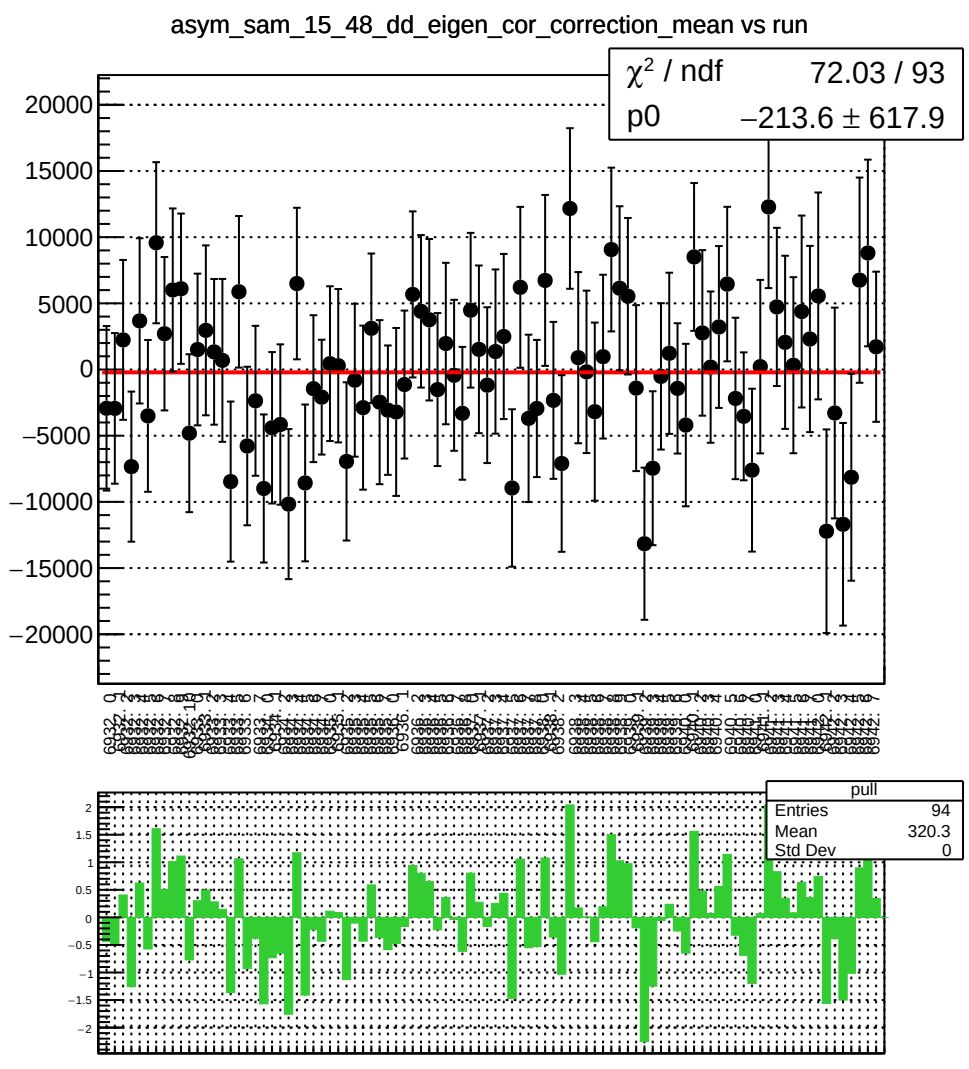

pull1D
Entries 94
Mean 0.008404
Std Dev 0.8754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

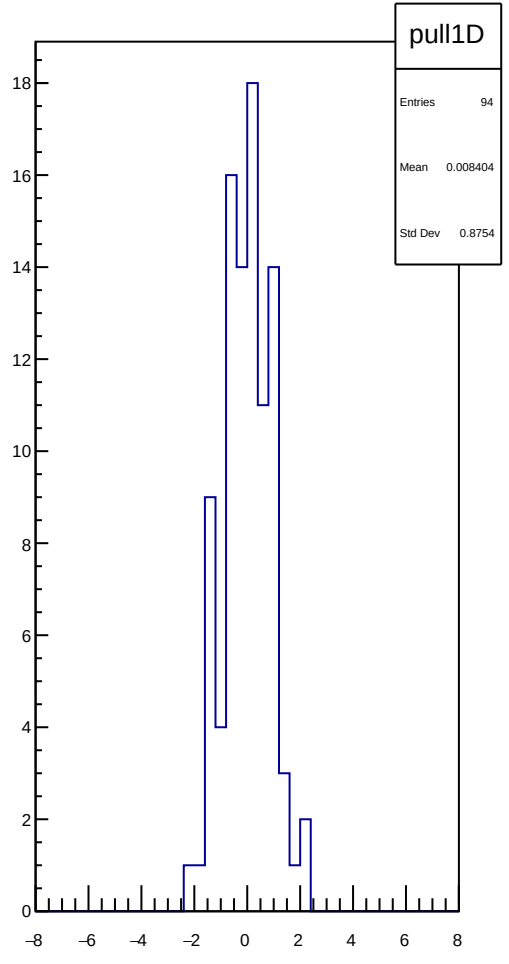

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 578.4 ± 0.4369
750
700
650
600
550
500

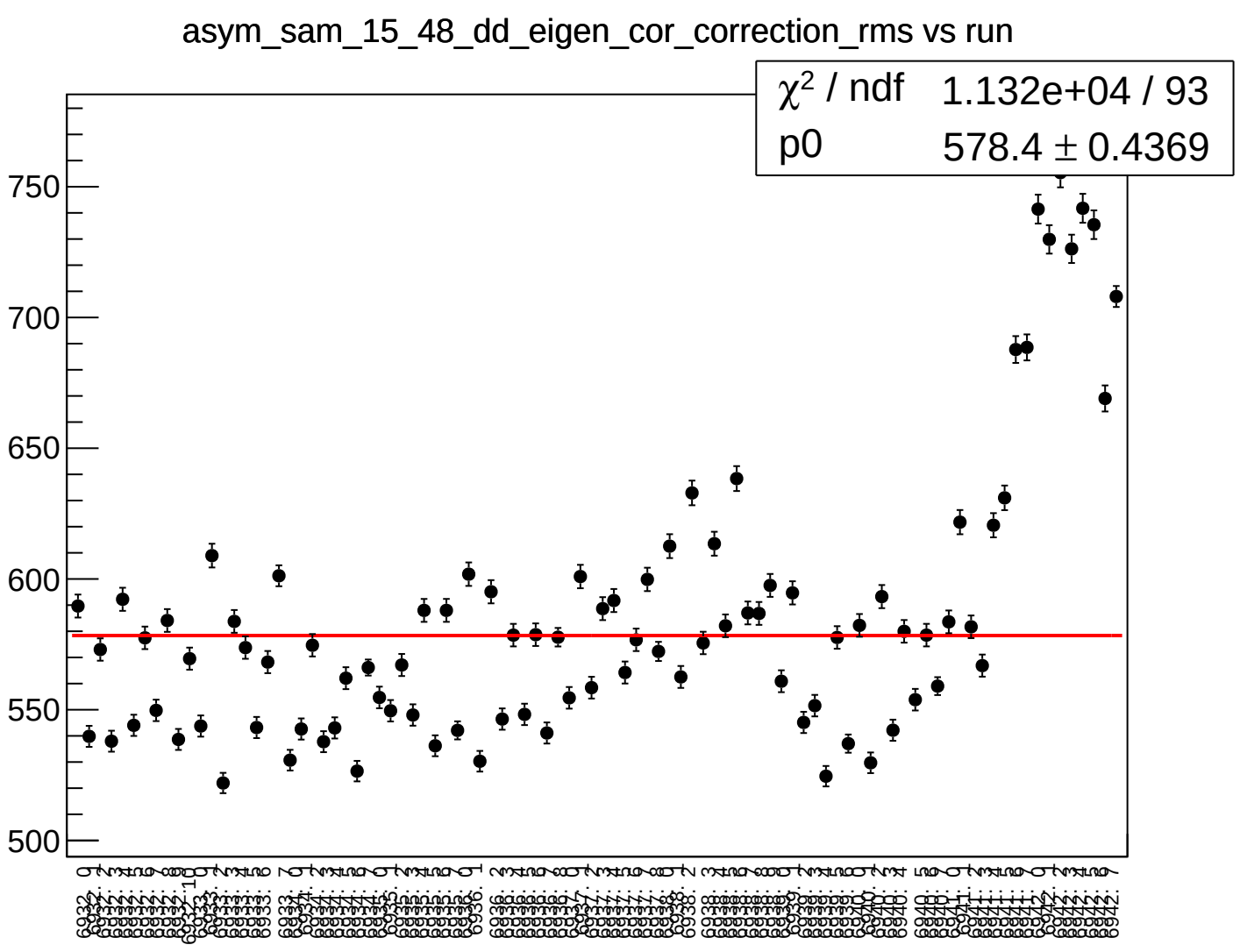

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 106.4 / 93
p0 66.97 ± 52.73
pull
Entries 94
Mean 105.8
Std Dev 0

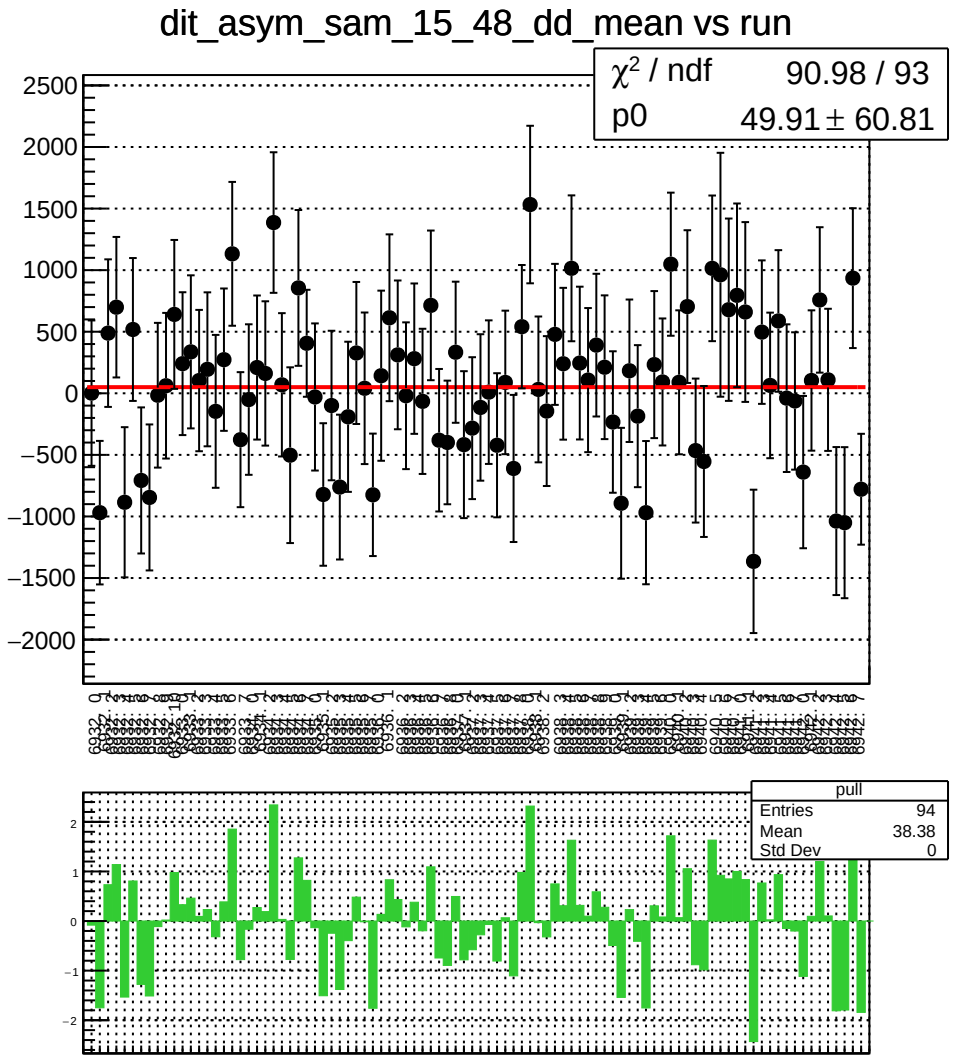

pull1D
Entries 94
Mean 0.009917
Std Dev 1.064

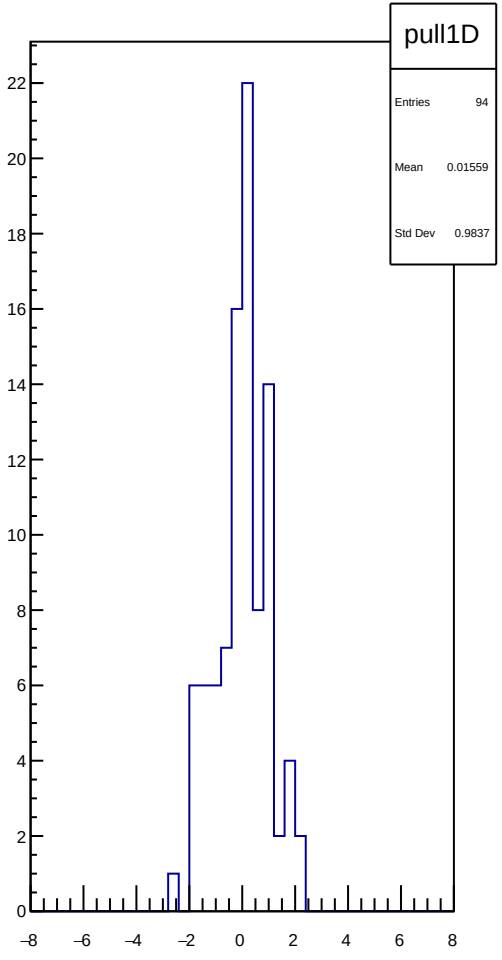

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3740 / 93
p0 49.46 ± 0.03728
64
62
60
58
56
54
52
50
48
46

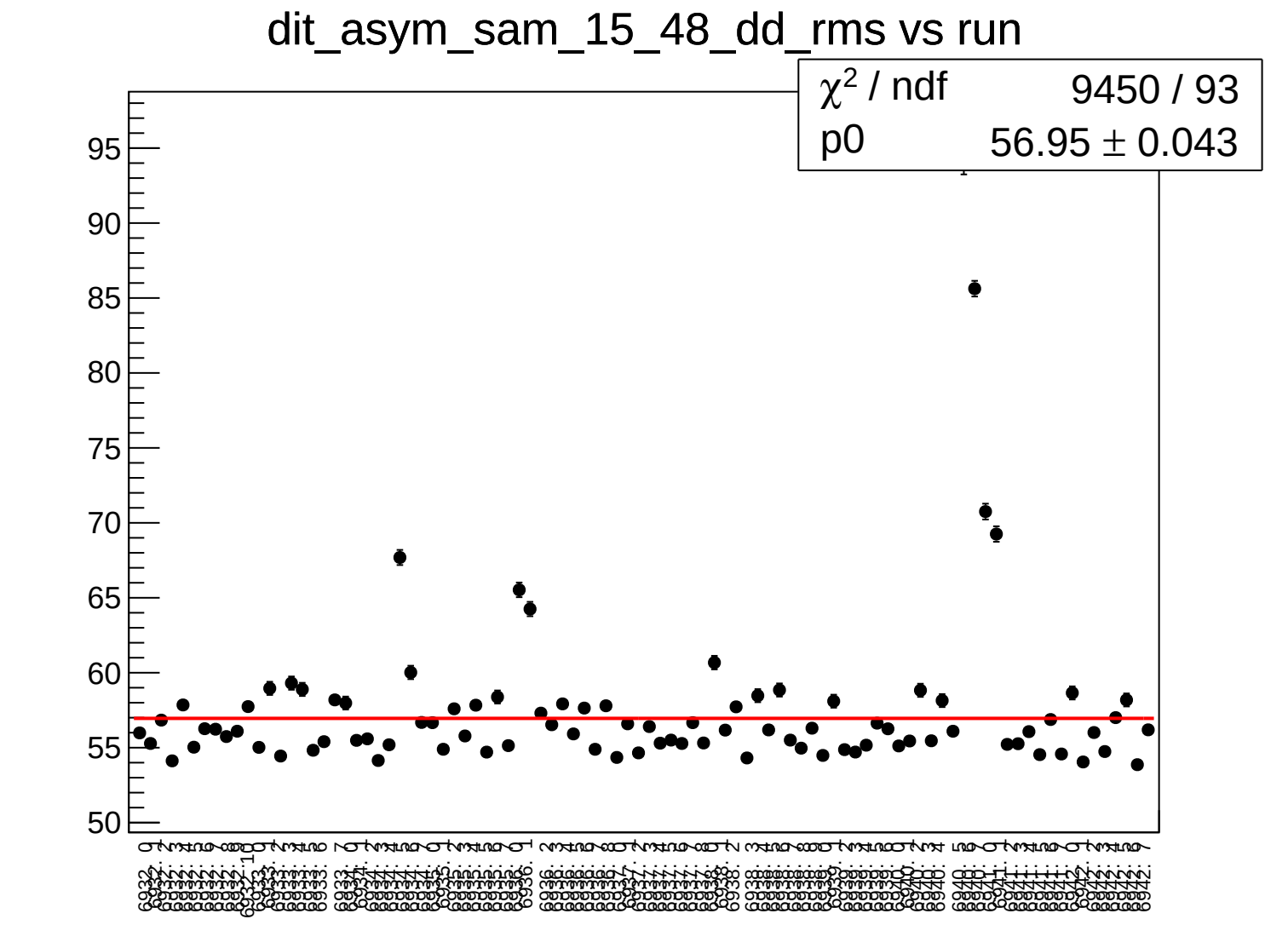

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.03 / 93
p0 −213.6 ± 617.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 320.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

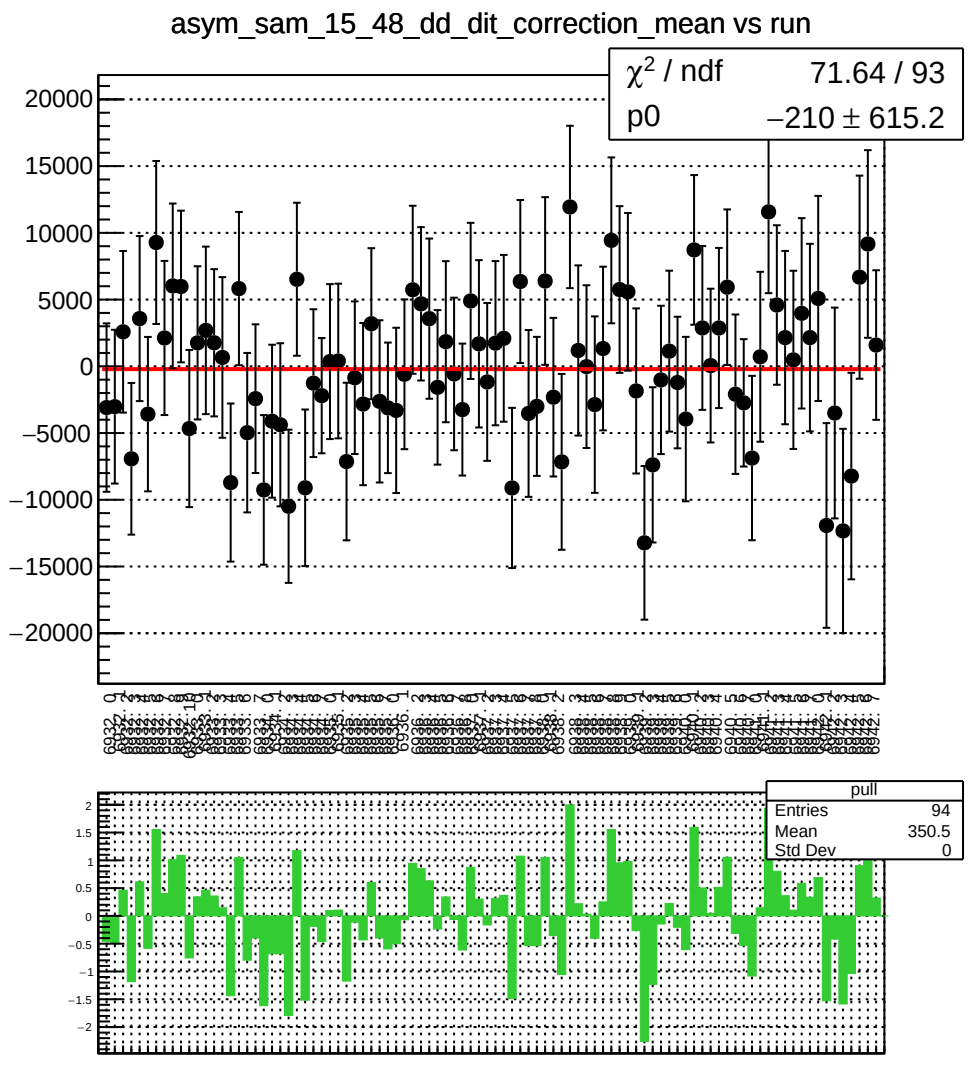

pull1D
Entries 94
Mean 0.008404
Std Dev 0.8754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

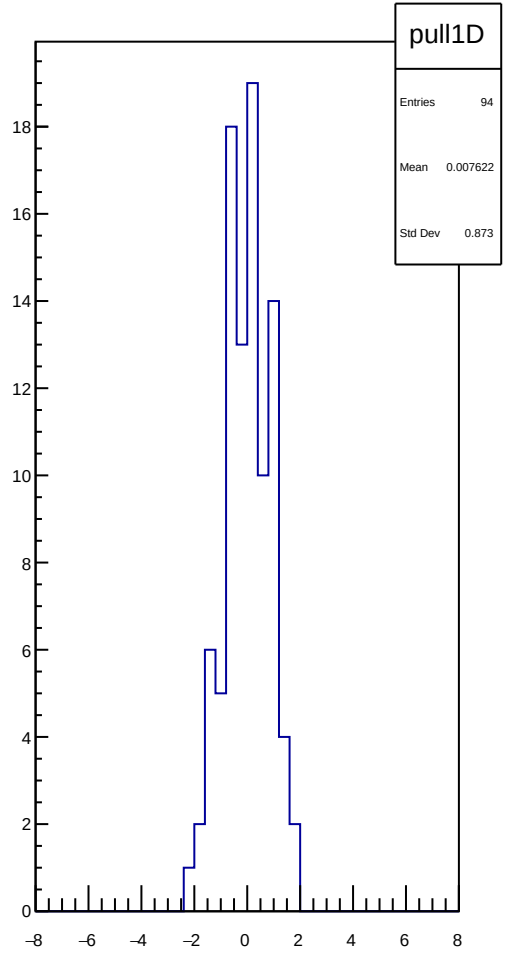

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.132e+04 / 93
p0 578.4 ± 0.4369
750
700
650
600
550
500

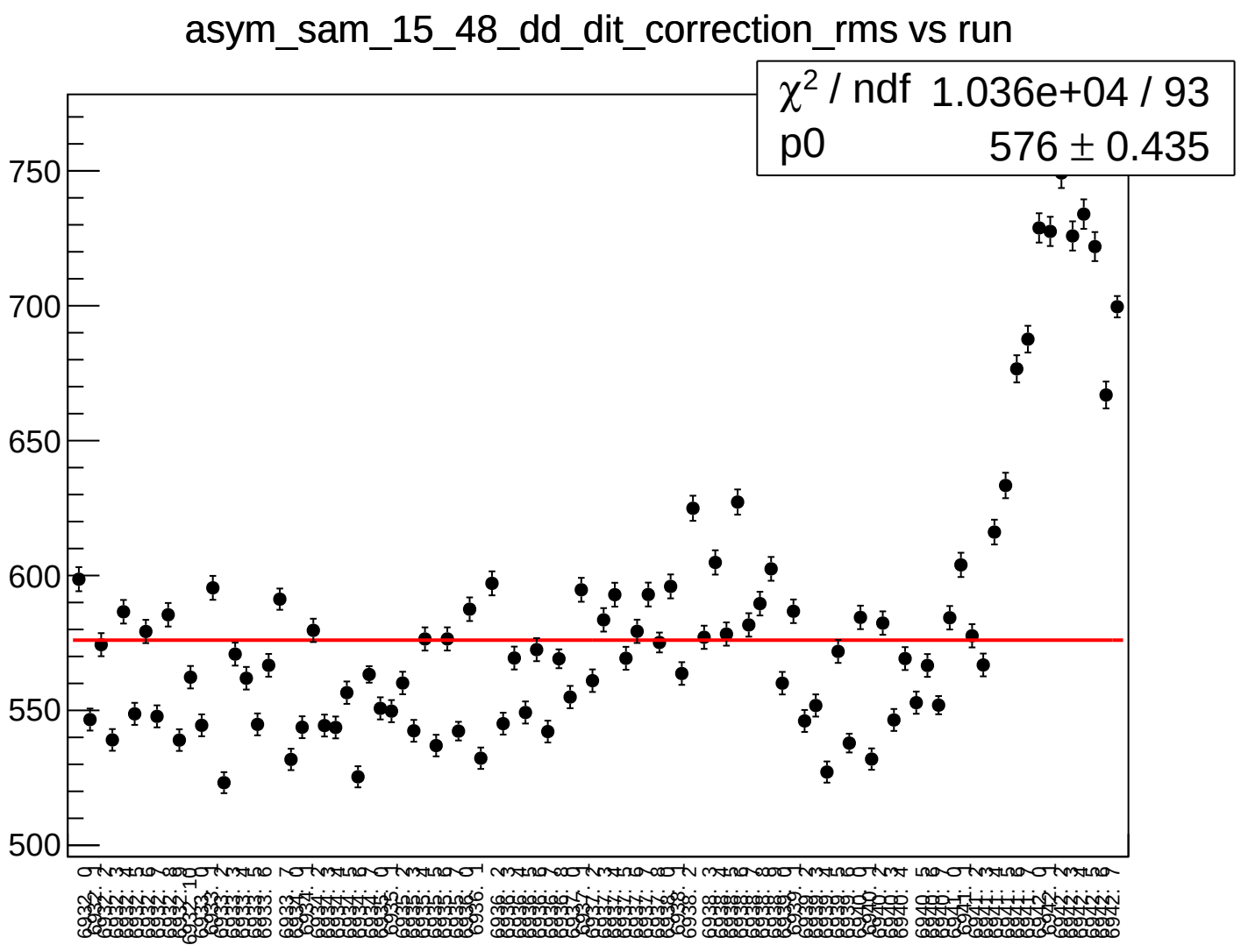

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.98 / 93
p0 49.91 ± 60.81
pull
Entries 94
Mean 38.38
Std Dev 0

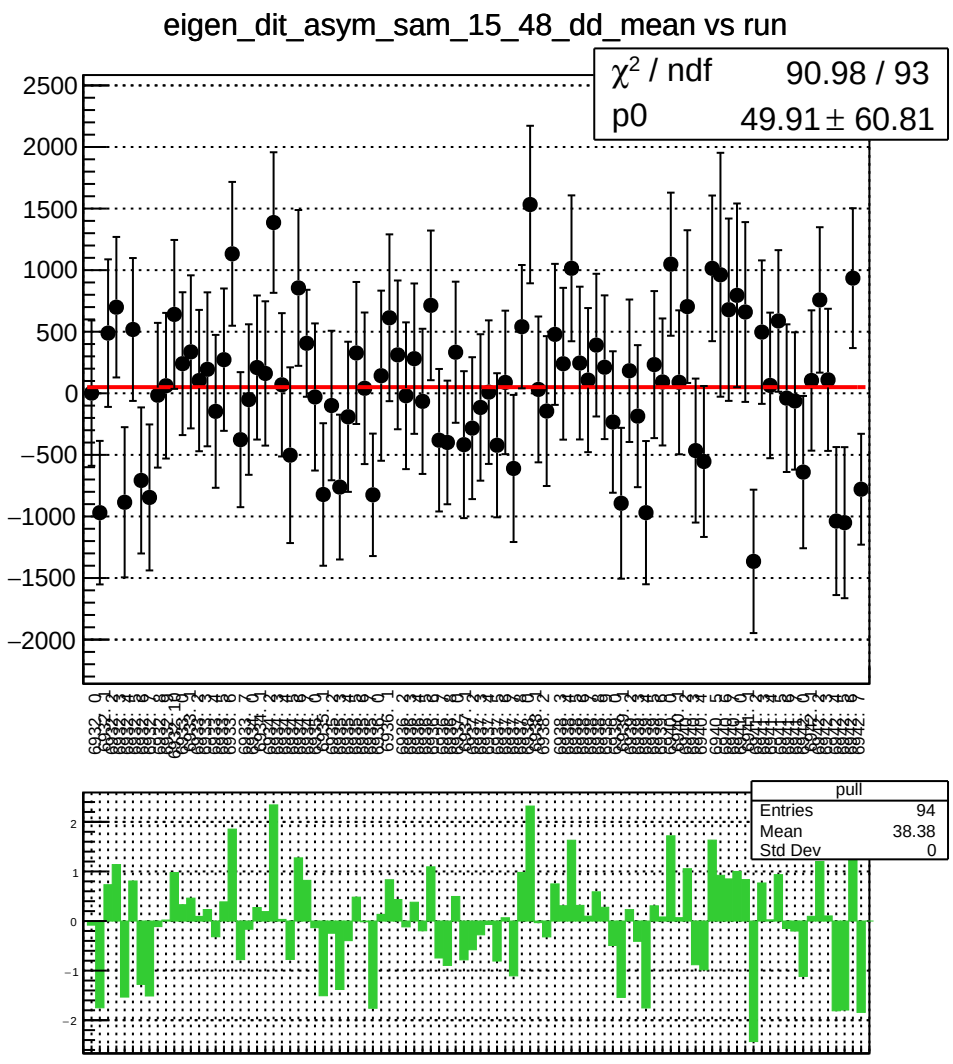

pull1D
Entries 94
Mean 0.01559
Std Dev 0.9837

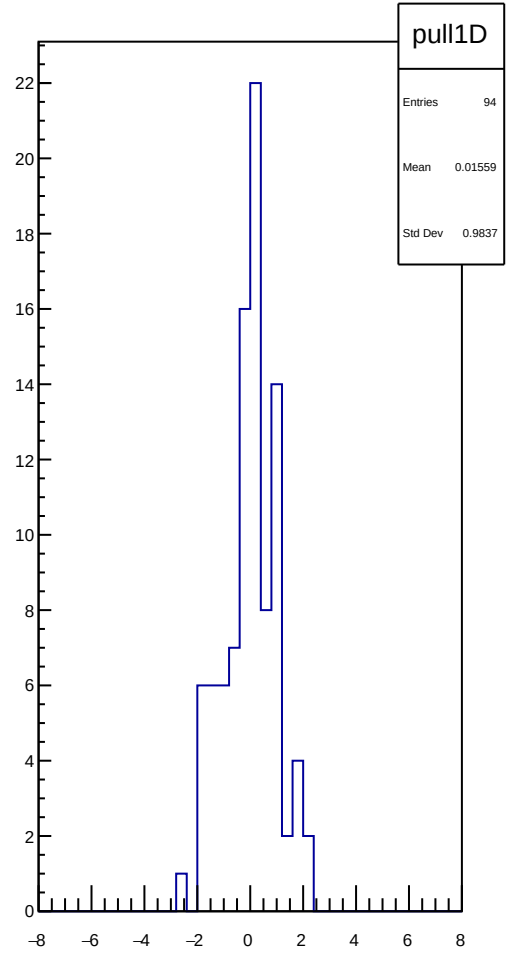

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 9450 / 93
p0 56.95 ± 0.043
95
90
85
80
75
70
65
60
55
50

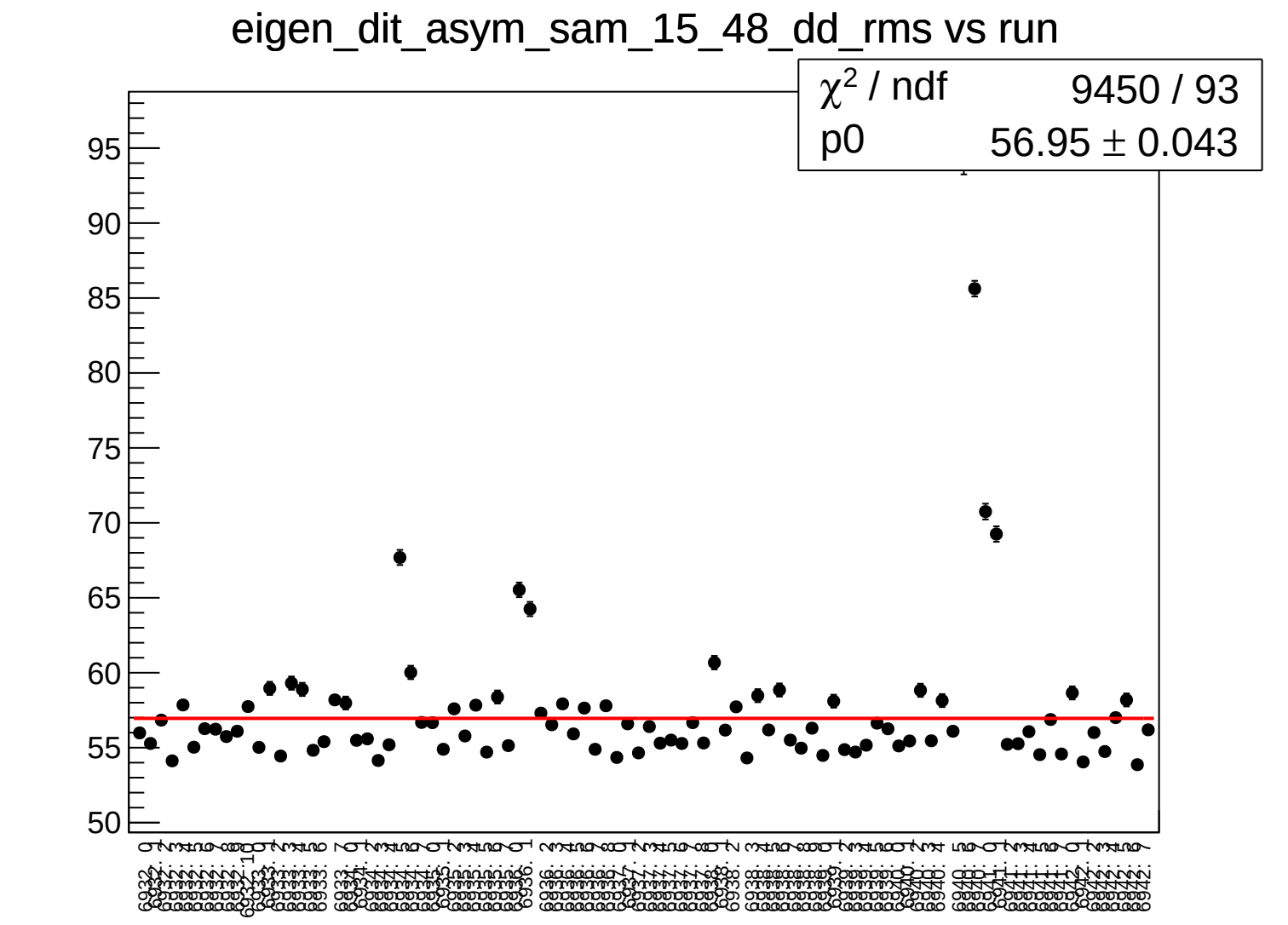

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 71.64 / 93
p0 −210 ± 615.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 350.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

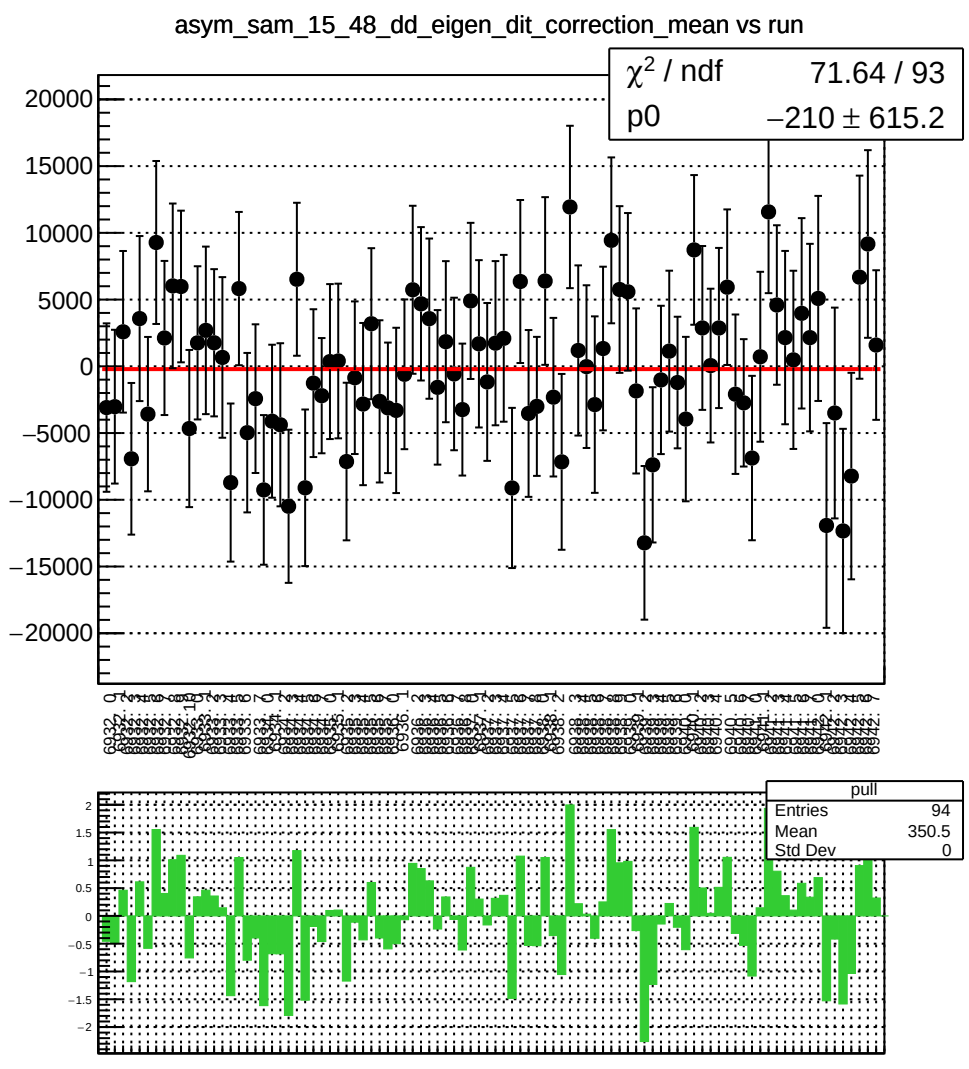

pull1D
Entries 94
Mean 0.007622
Std Dev 0.873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

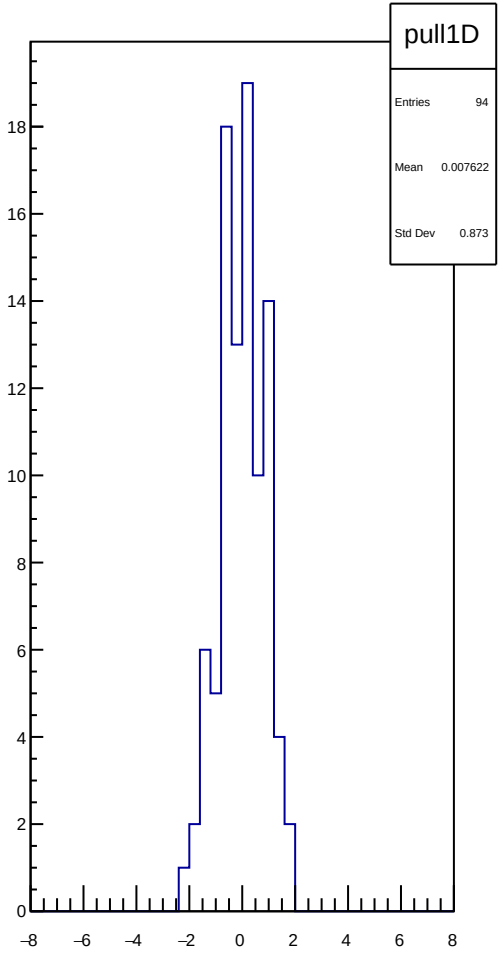

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 93
p0 576 ± 0.435
750
700
650
600
550
500

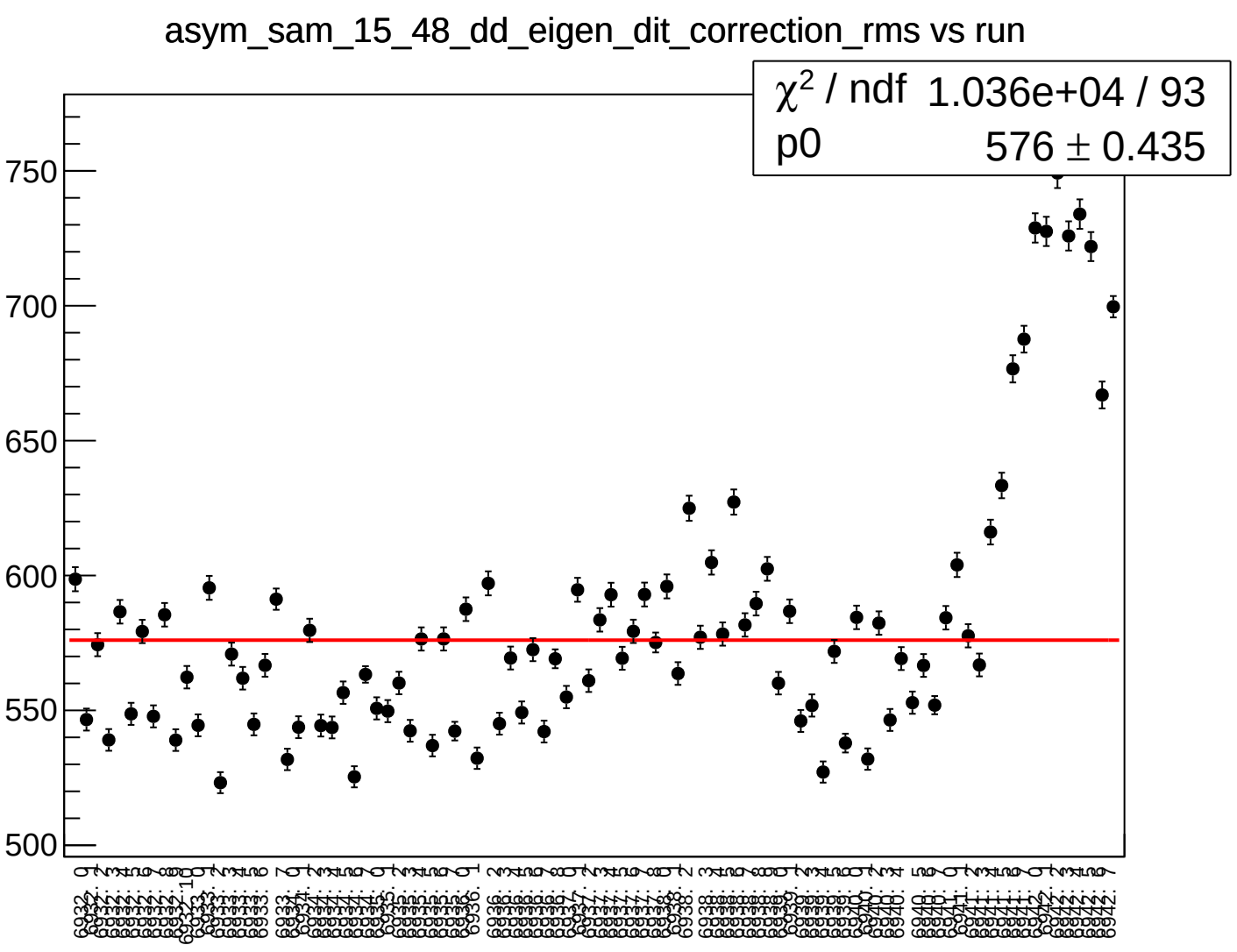

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 90.98 / 93
p0 49.91 ± 60.81
pull
Entries 94
Mean 38.38
Std Dev 0

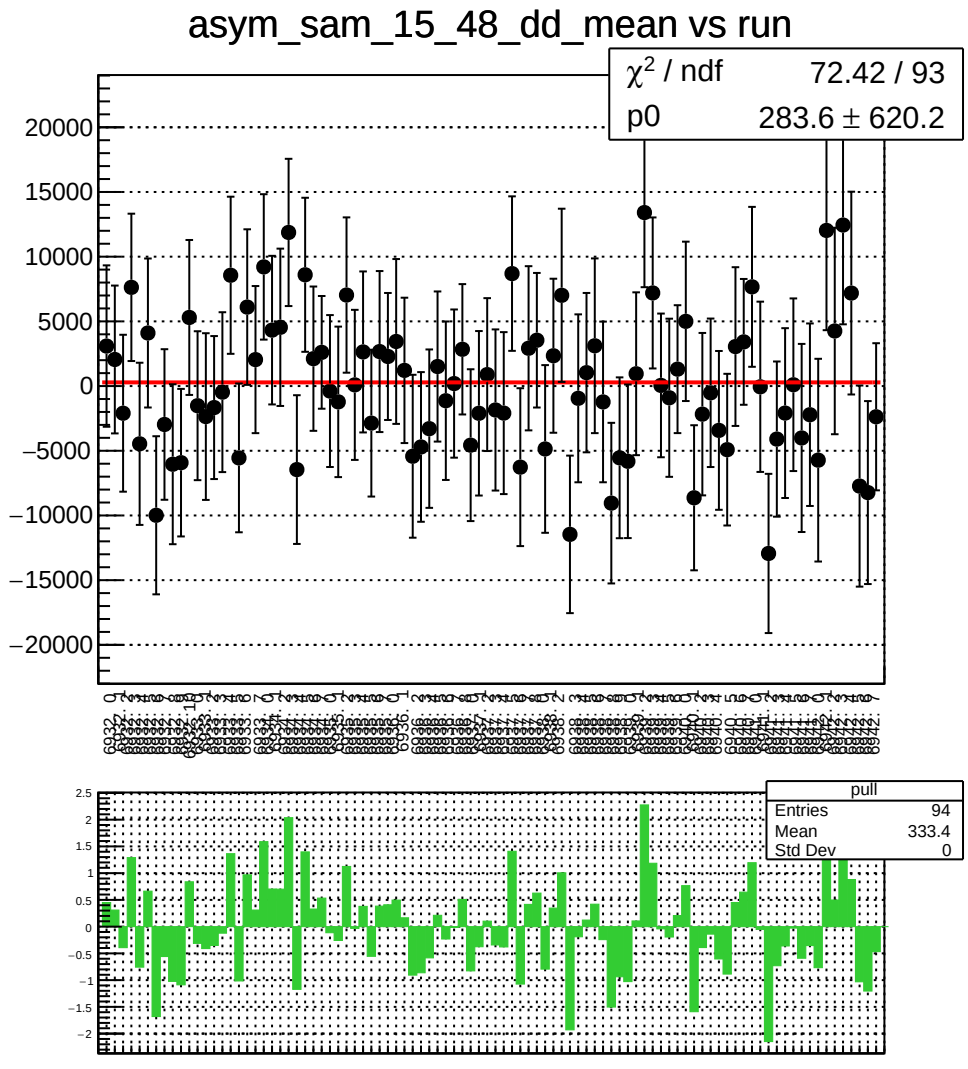

pull1D
Entries 94
Mean 0.01559
Std Dev 0.9837

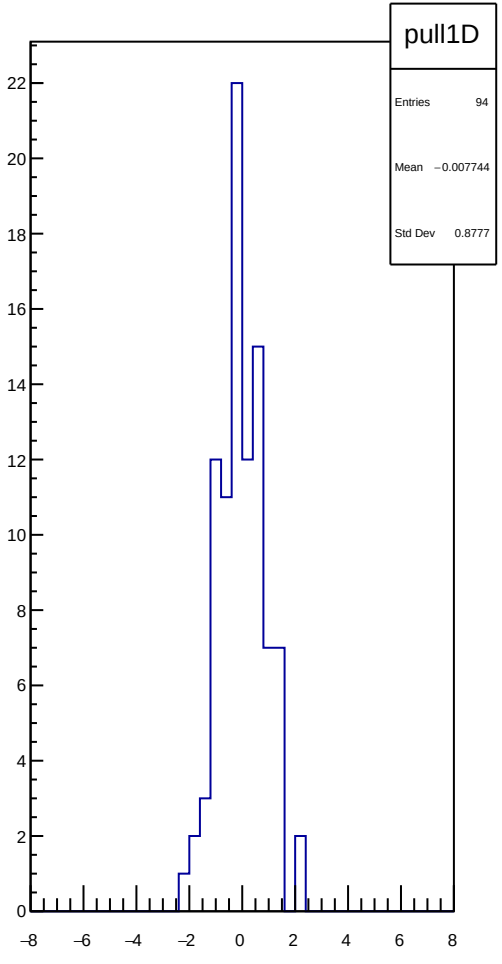

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 9450 / 93
p0 56.95 ± 0.043
95
90
85
80
75
70
65
60
55
50

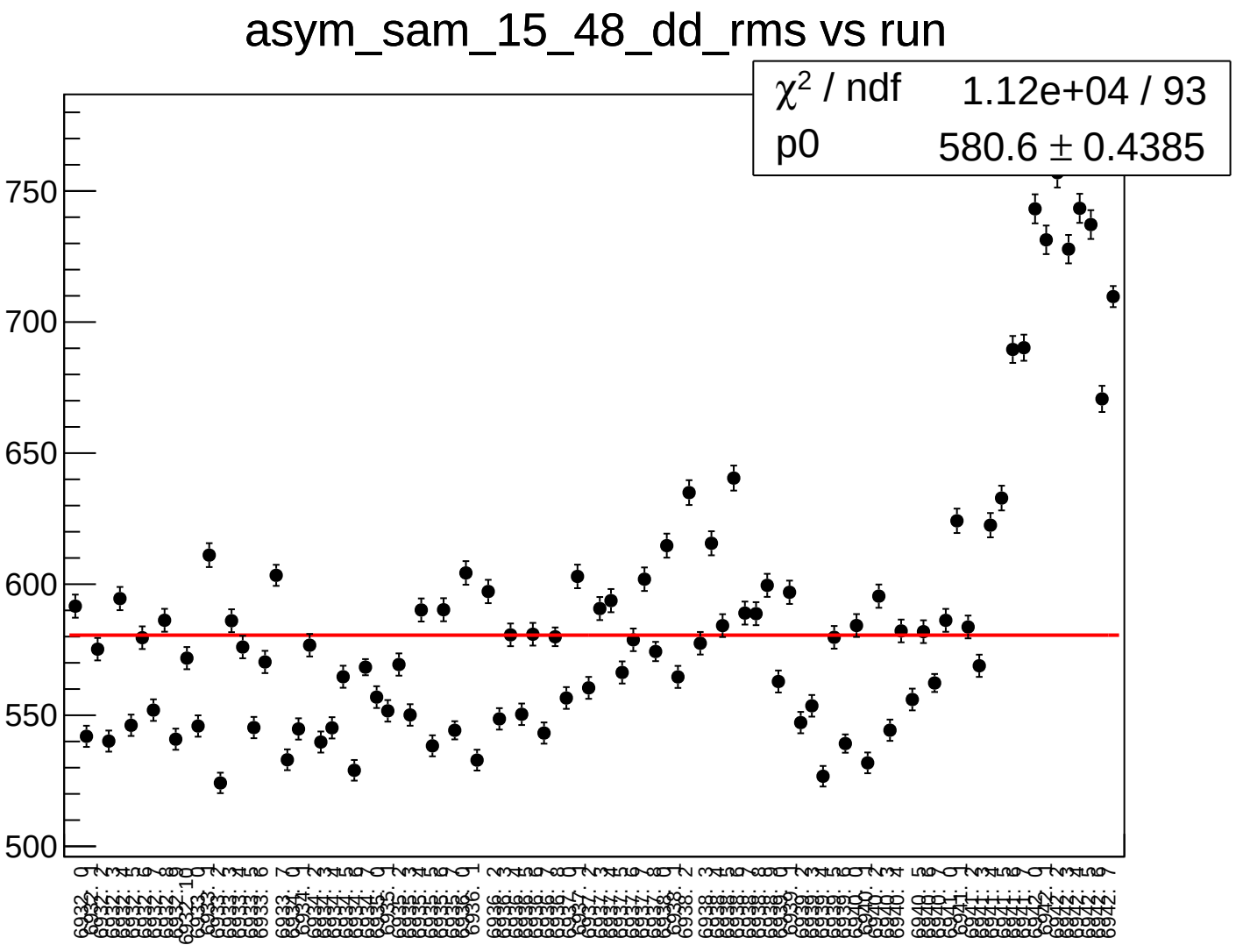

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.64 / 93
p0 −210 ± 615.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 350.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

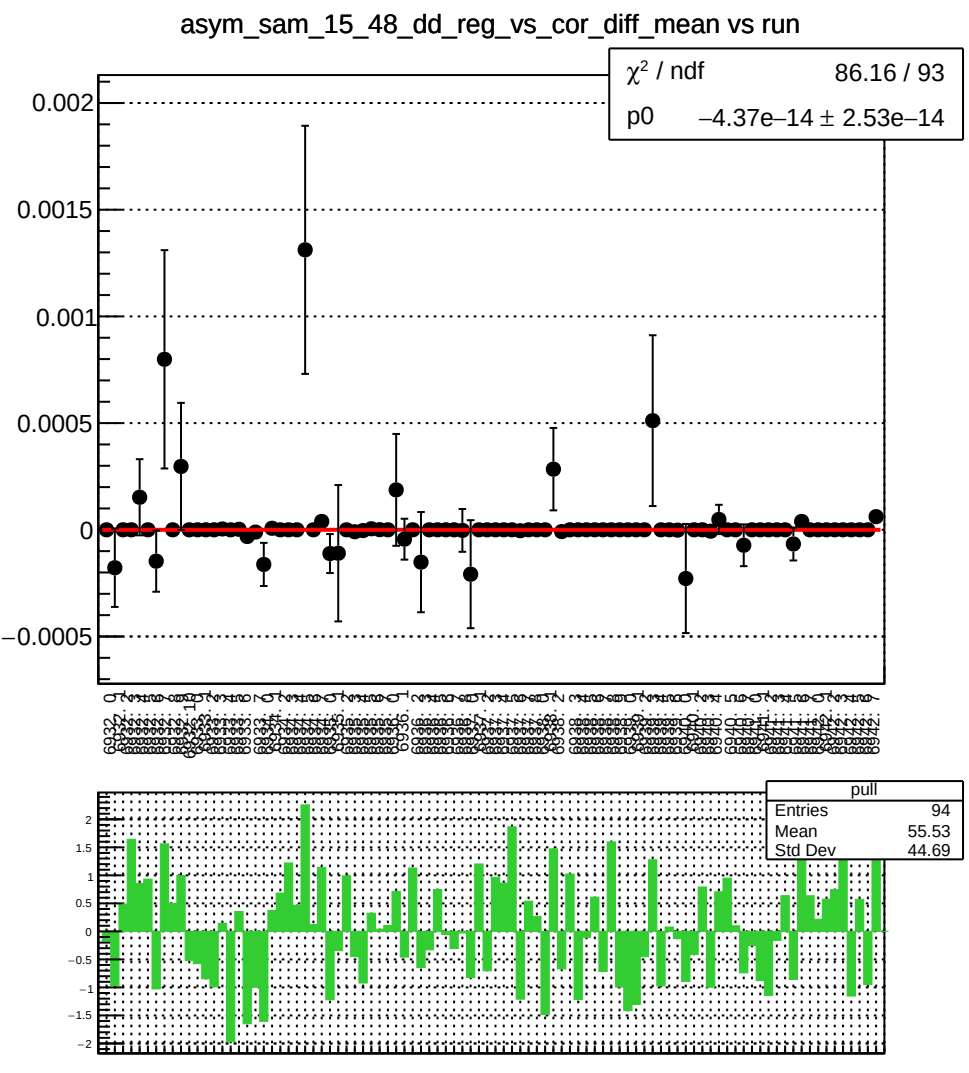

pull1D
Entries 94
Mean 0.007622
Std Dev 0.873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

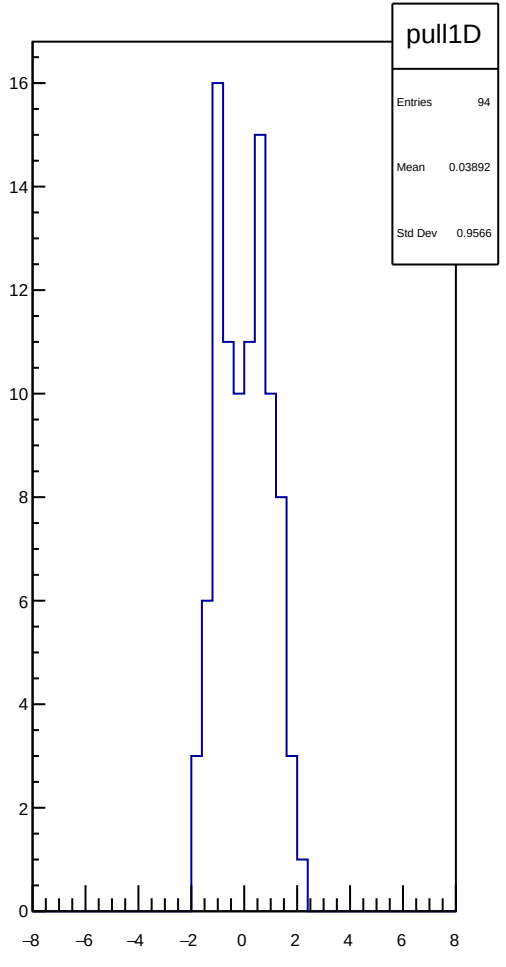

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 93
p0 576 ± 0.435
750
700
650
600
550
500

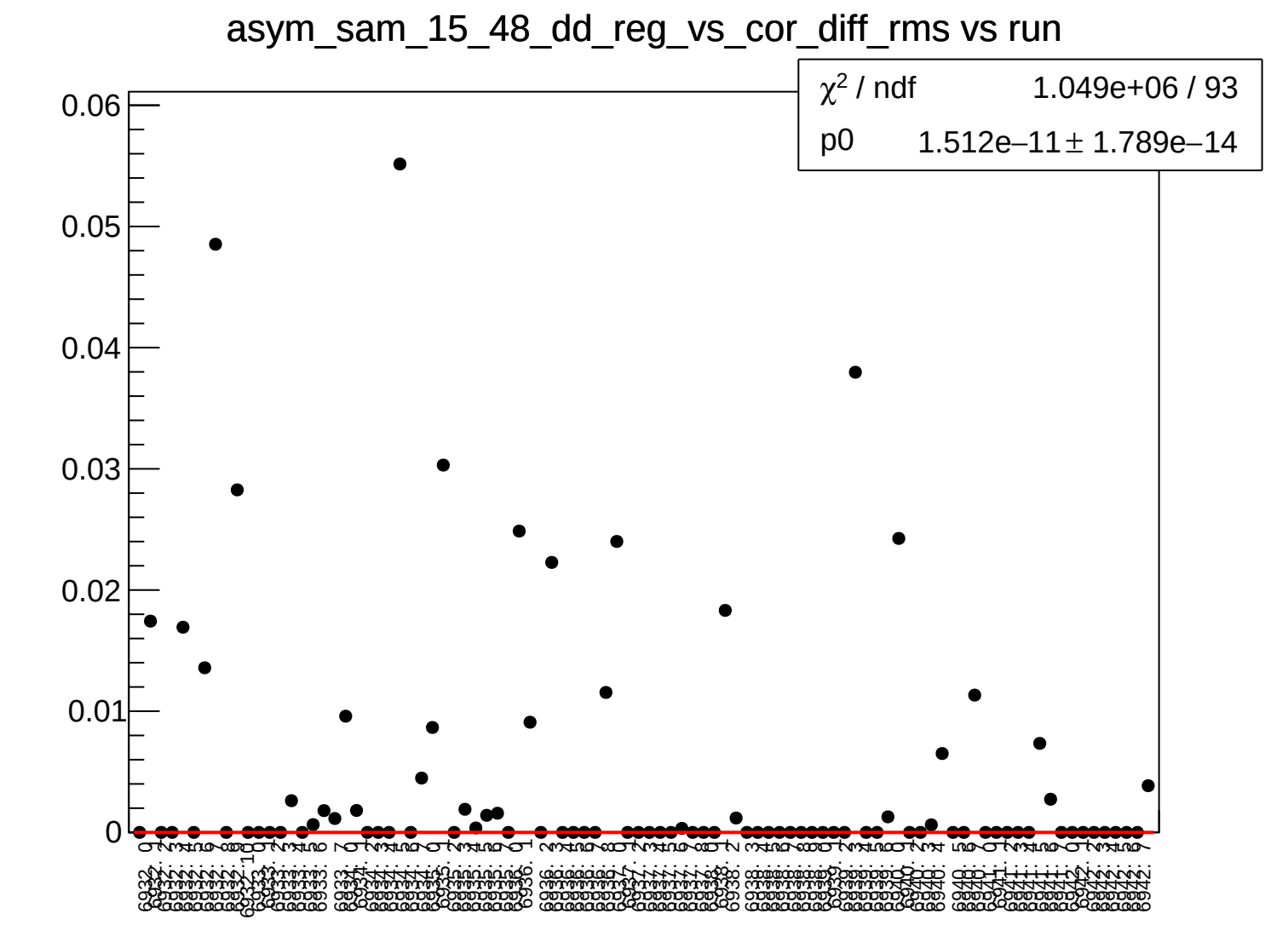

asym_sam_15_48_dd_mean vs run
χ² / ndf 72.42 / 93
p0 283.6 ± 620.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 333.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

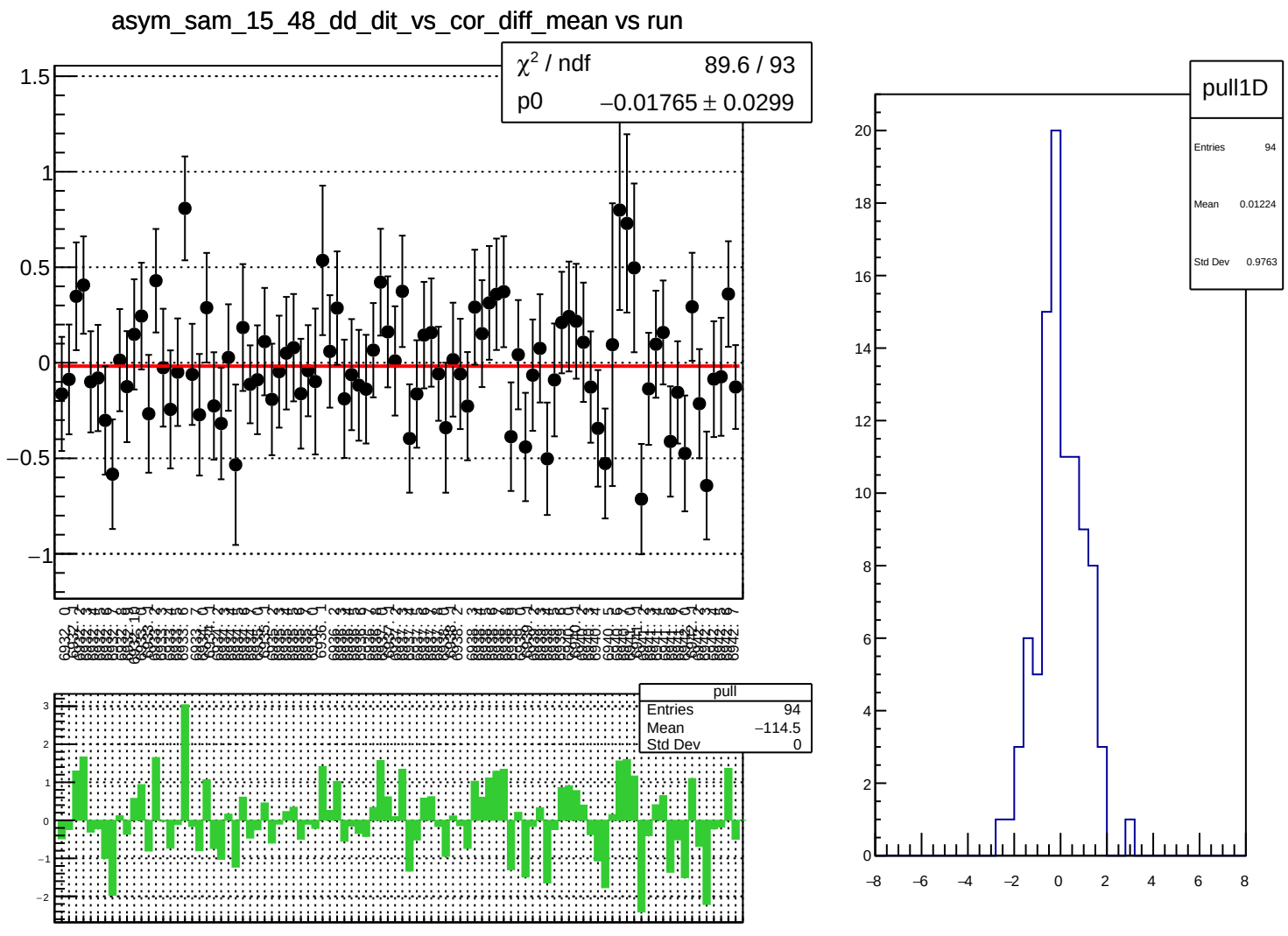

pull1D
Entries 94
Mean −0.007744
Std Dev 0.8777
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

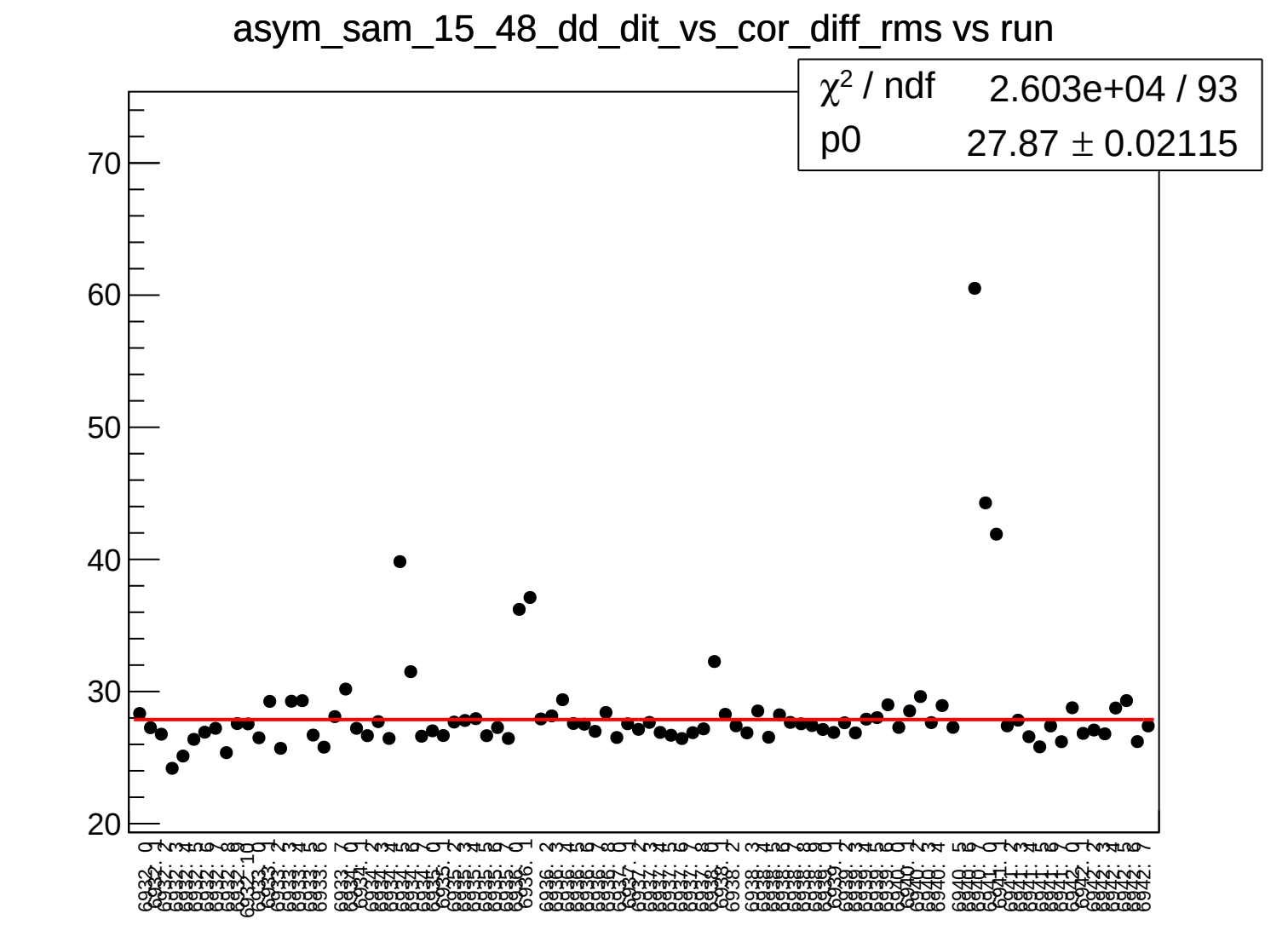

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.12e+04 / 93
p0 580.6 ± 0.4385
750
700
650
600
550
500

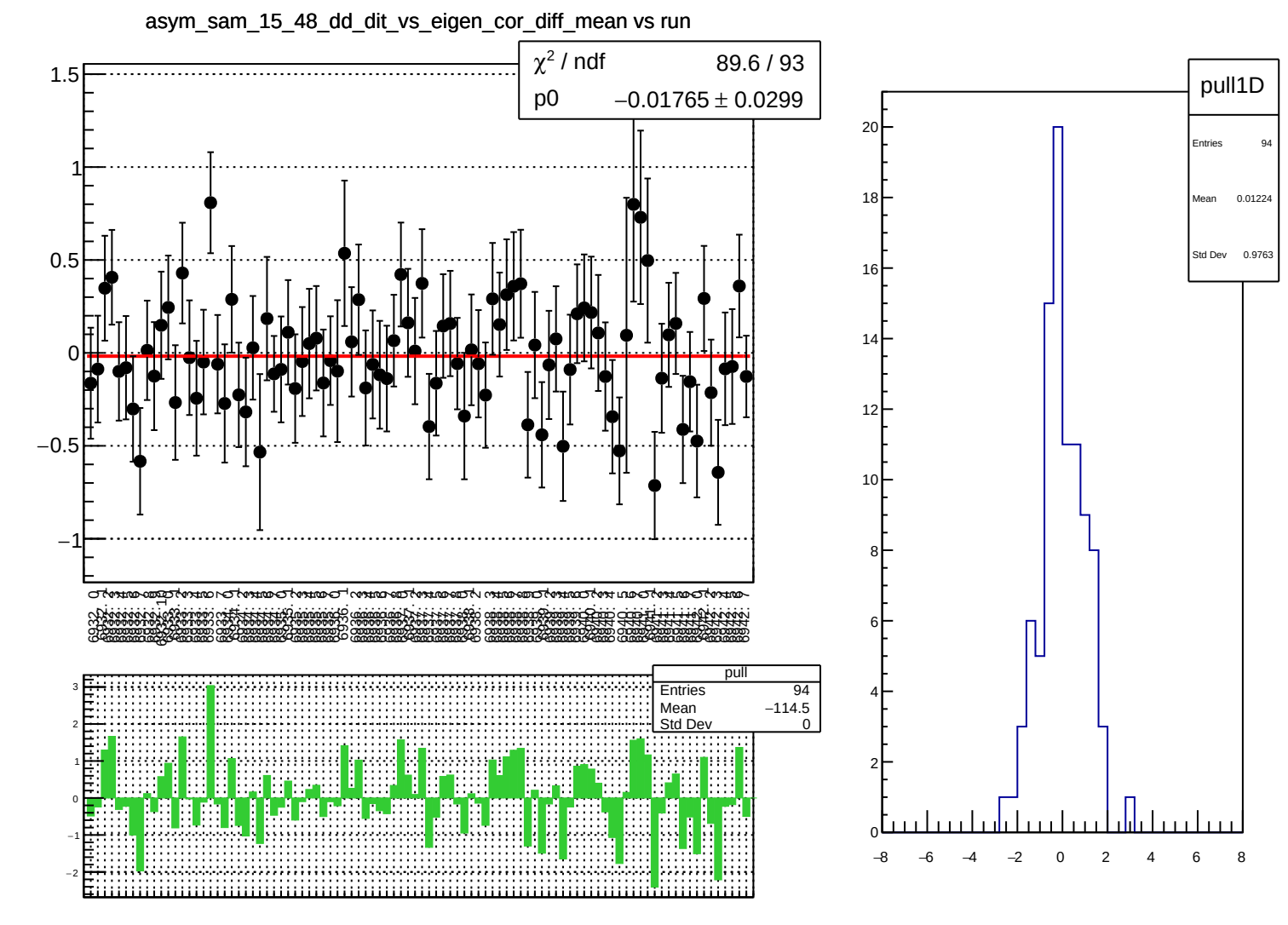

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.16 / 93
p0 −4.37e−14 ± 2.53e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 94
Mean 55.53
Std Dev 44.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

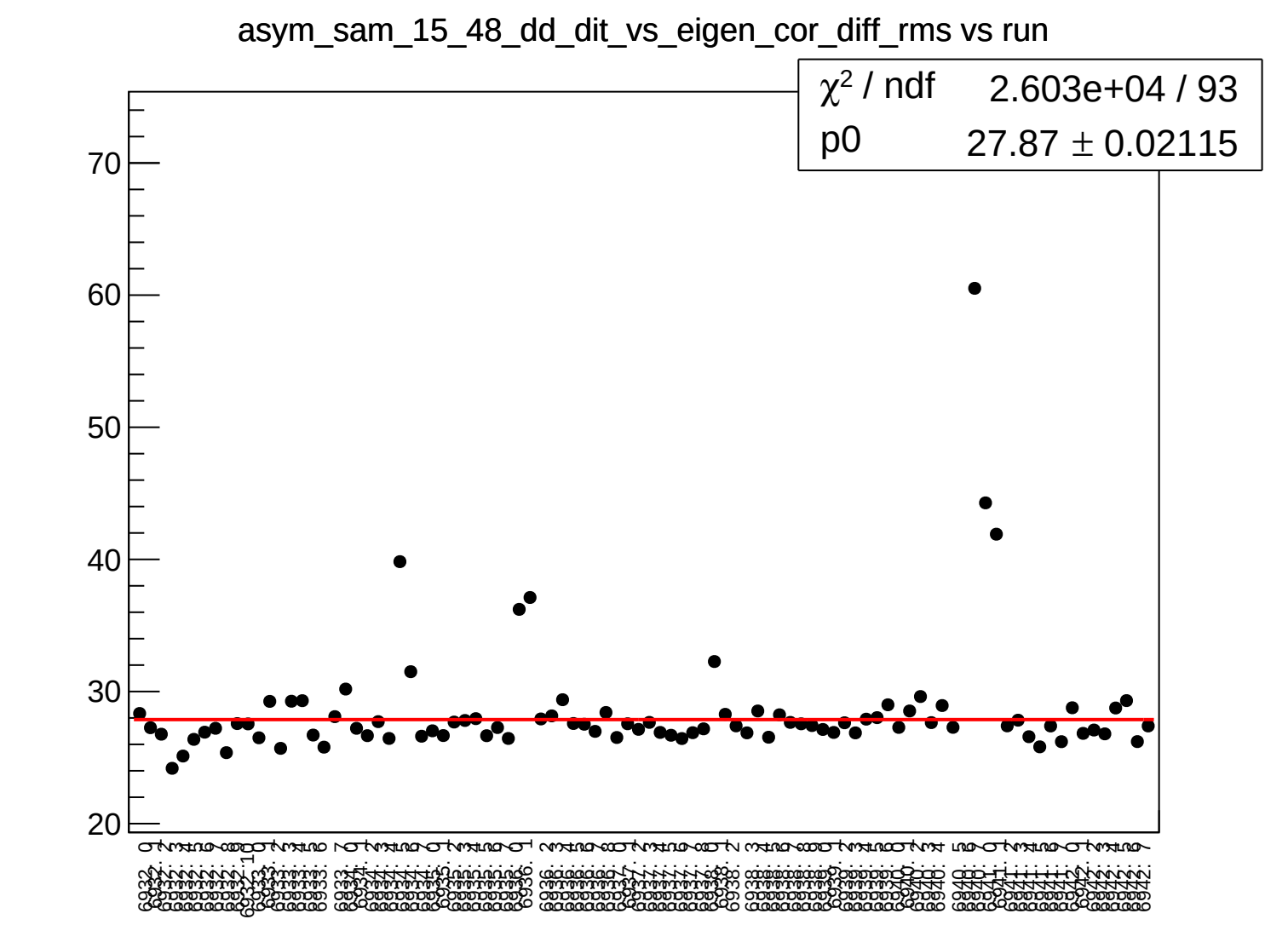

pull1D
Entries 94
Mean 0.03892
Std Dev 0.9566
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

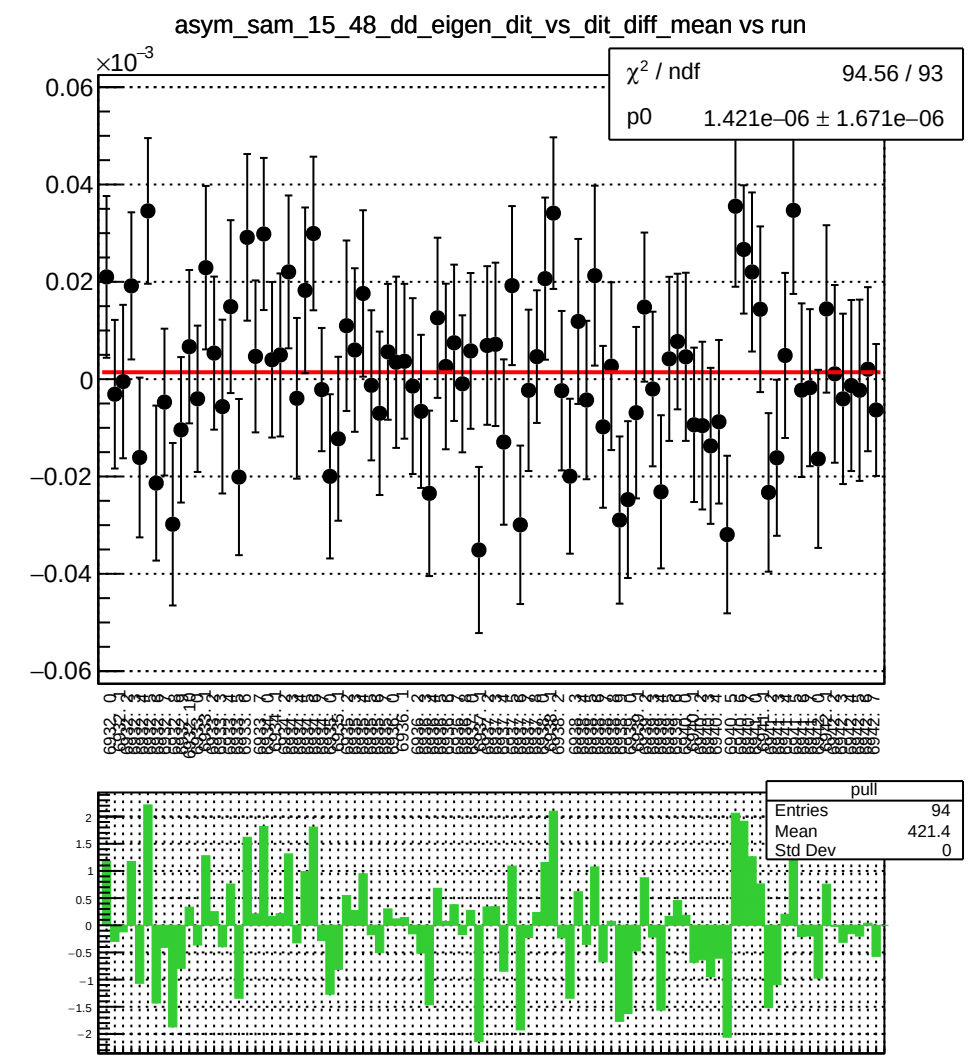

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.049e+06 / 93
p0 1.512e−11 ± 1.789e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

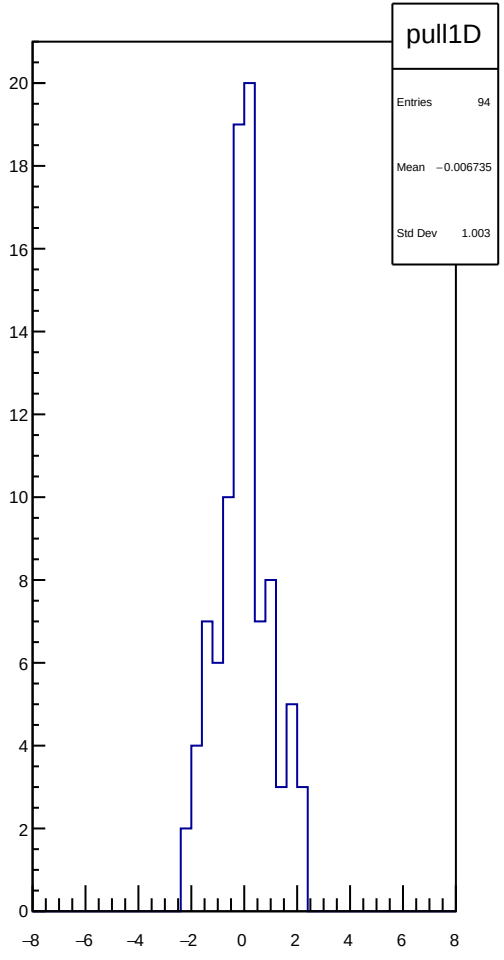

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 93
p0 −0.01765 ± 0.0299
pull
Entries 94
Mean −114.5
Std Dev 0
pull1D
Entries 94
Mean 0.01224
Std Dev 0.9763

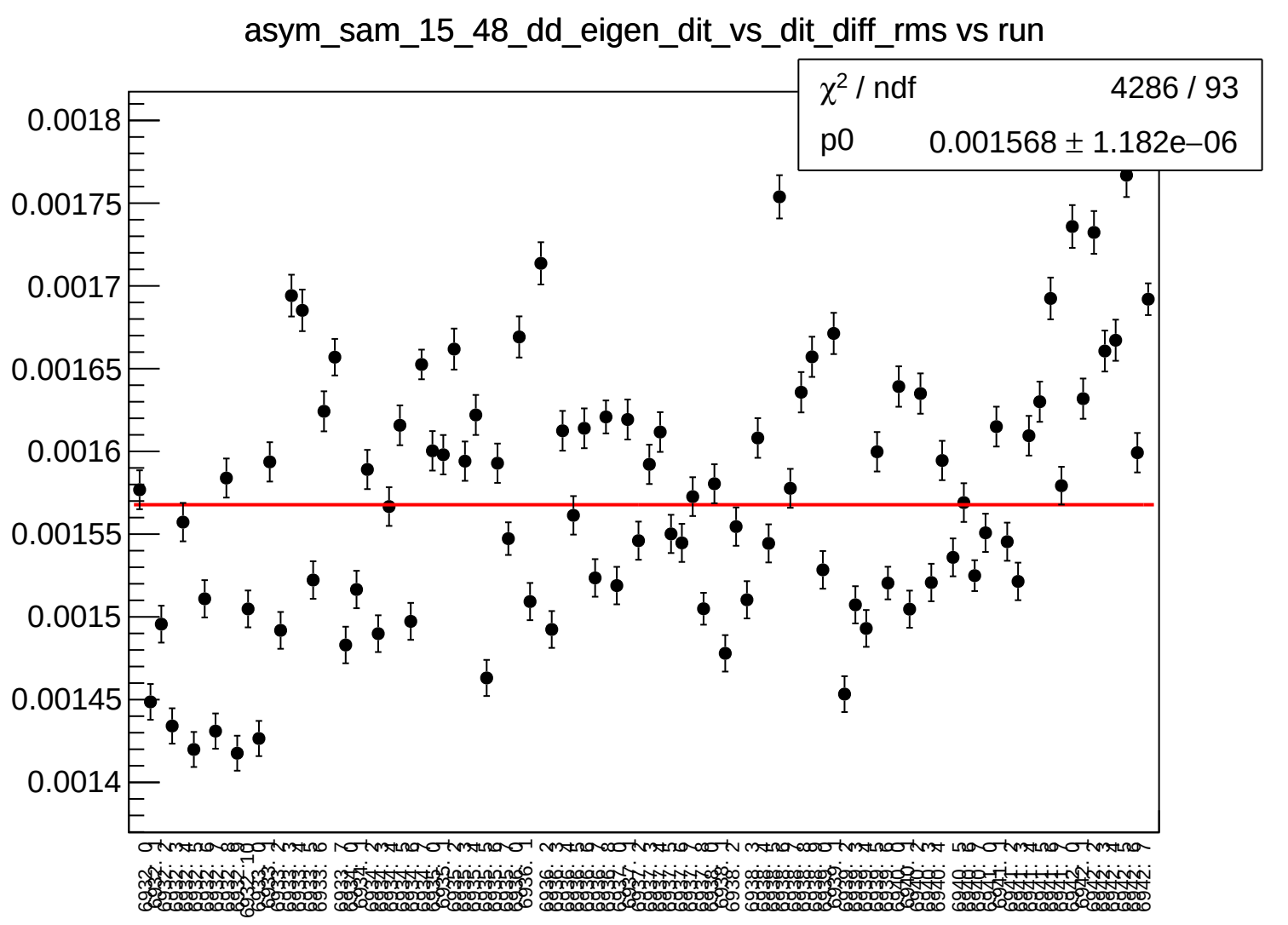

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.603e+04 / 93
p0 27.87 ± 0.02115
70
60
50
40
30
20

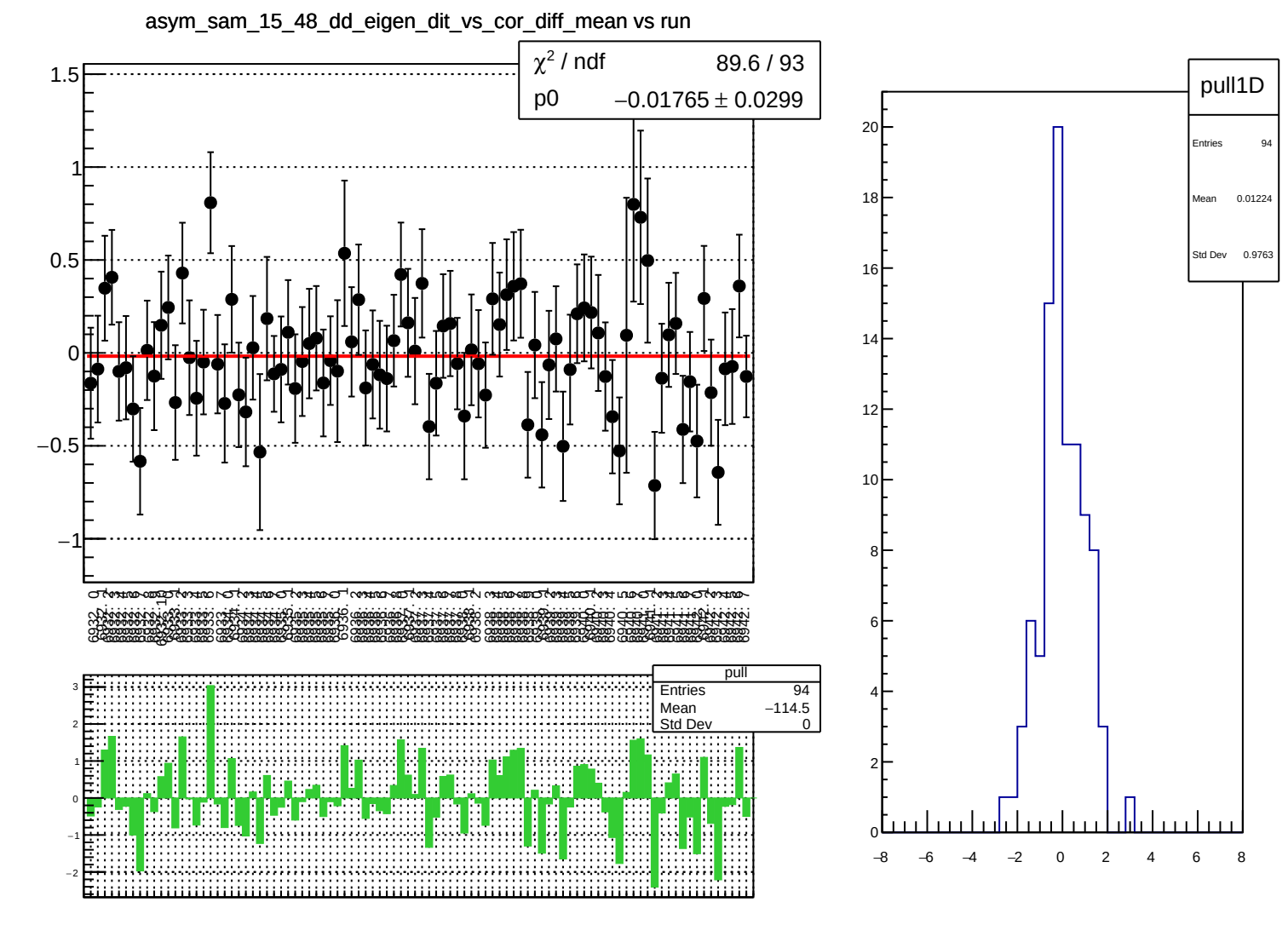

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.6 / 93
p0 −0.01765 ± 0.0299
pull
Entries 94
Mean −114.5
Std Dev 0
pull1D
Entries 94
Mean 0.01224
Std Dev 0.9763

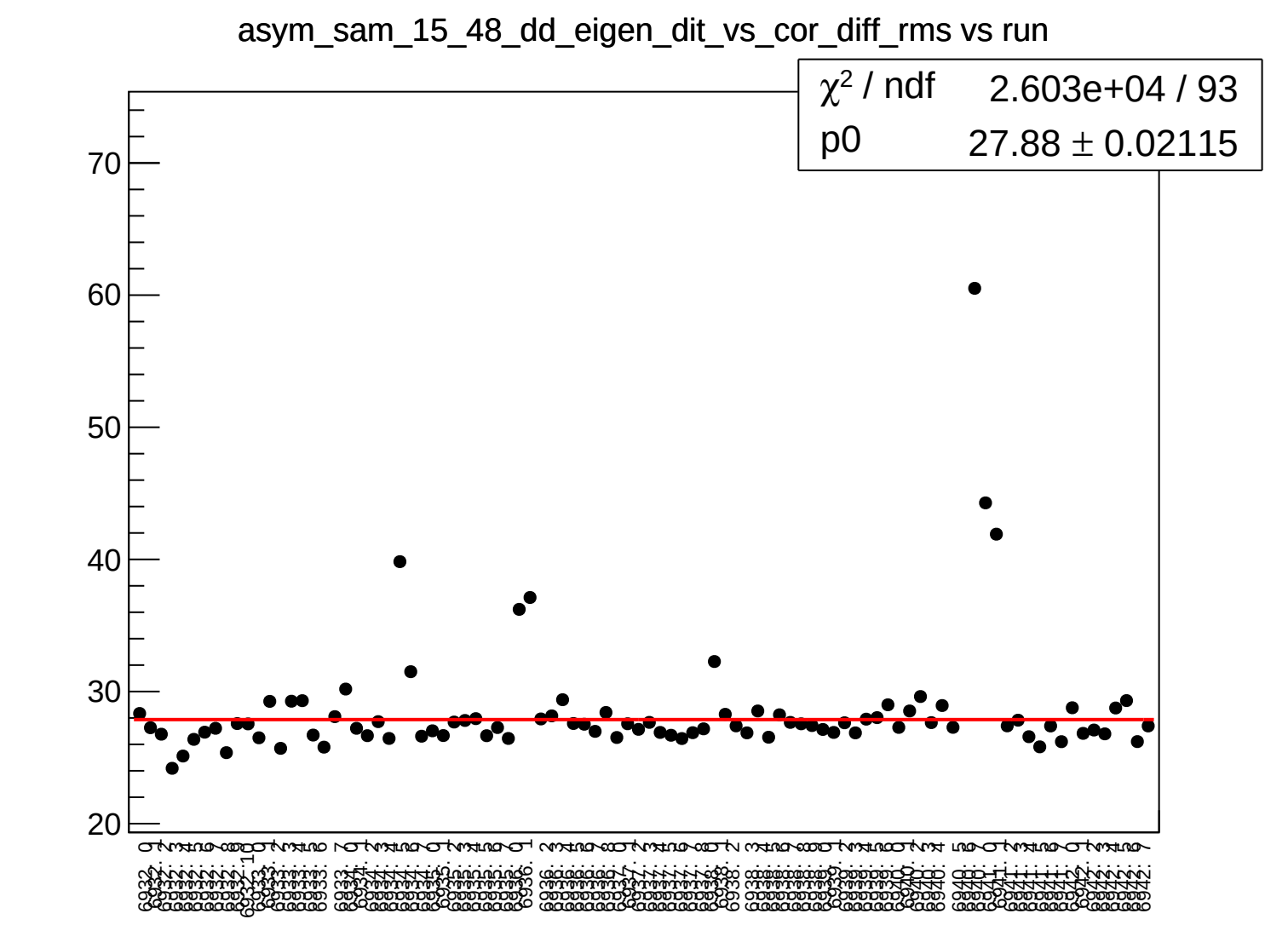

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.603e+04 / 93
p0 27.87 ± 0.02115
70
60
50
40
30
20

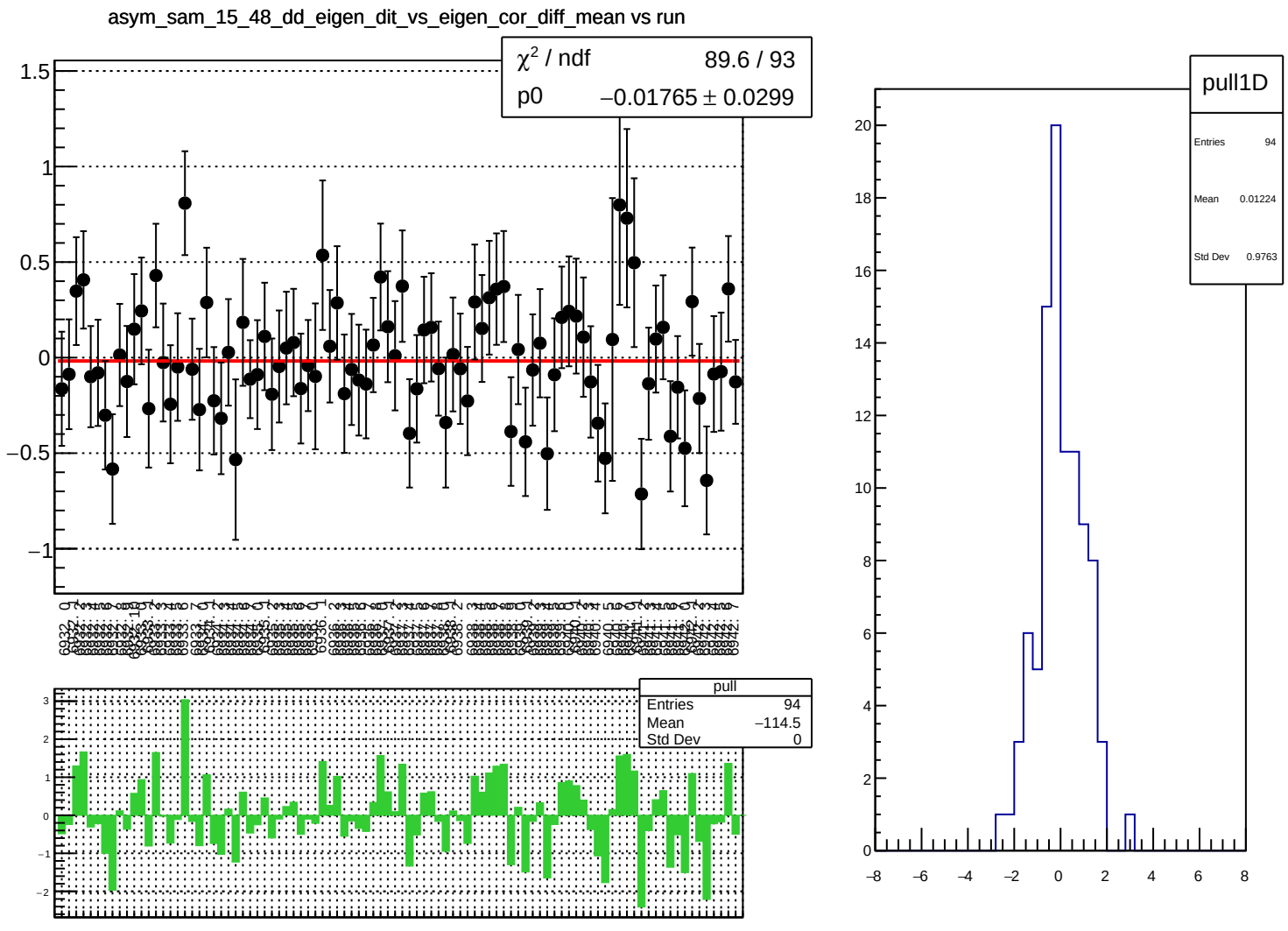

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.56 / 93
p0 1.421e−06 ± 1.671e−06
pull
Entries 94
Mean 421.4
Std Dev 0

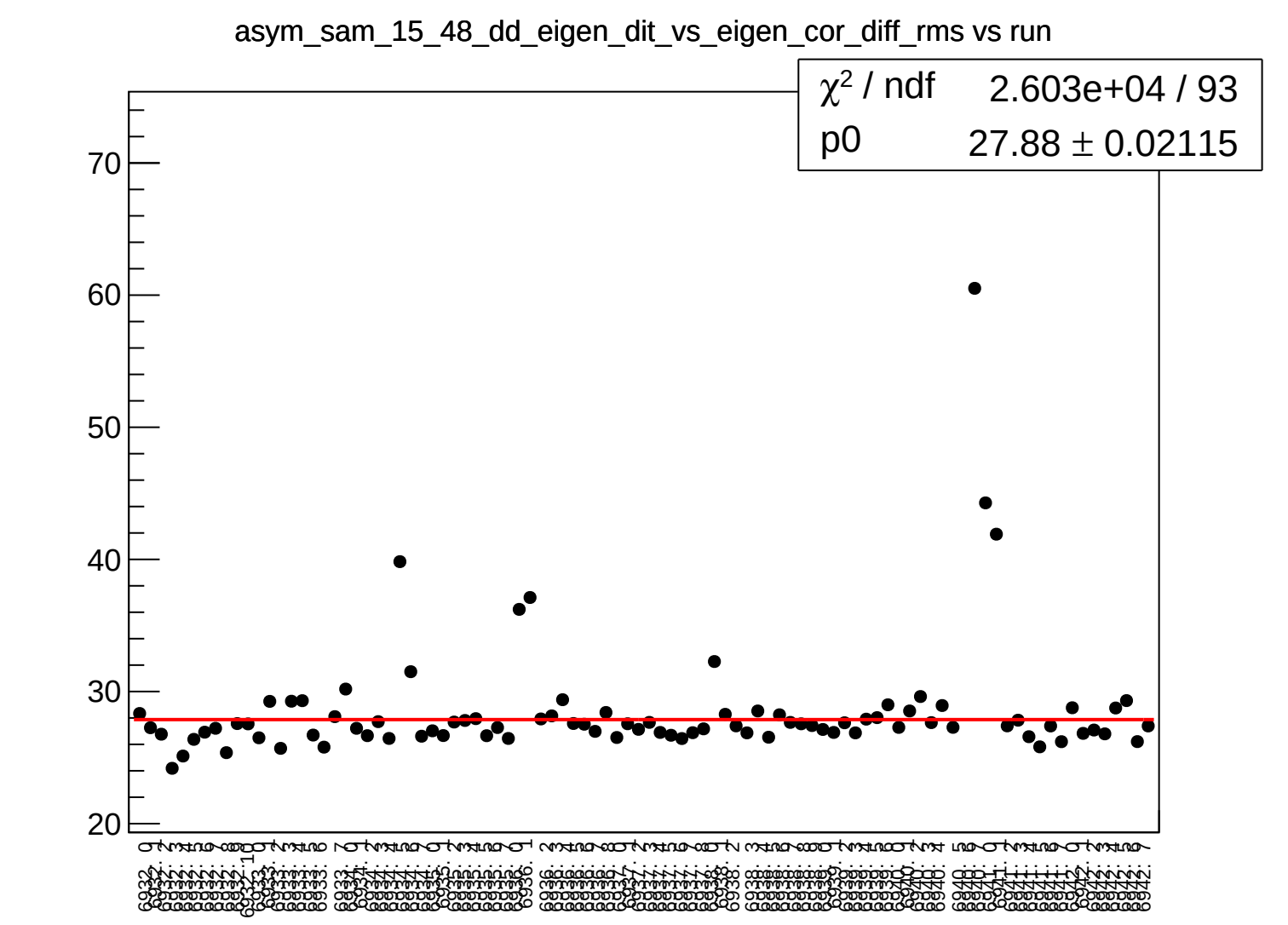

pull1D
Entries 94
Mean −0.006735
Std Dev 1.003

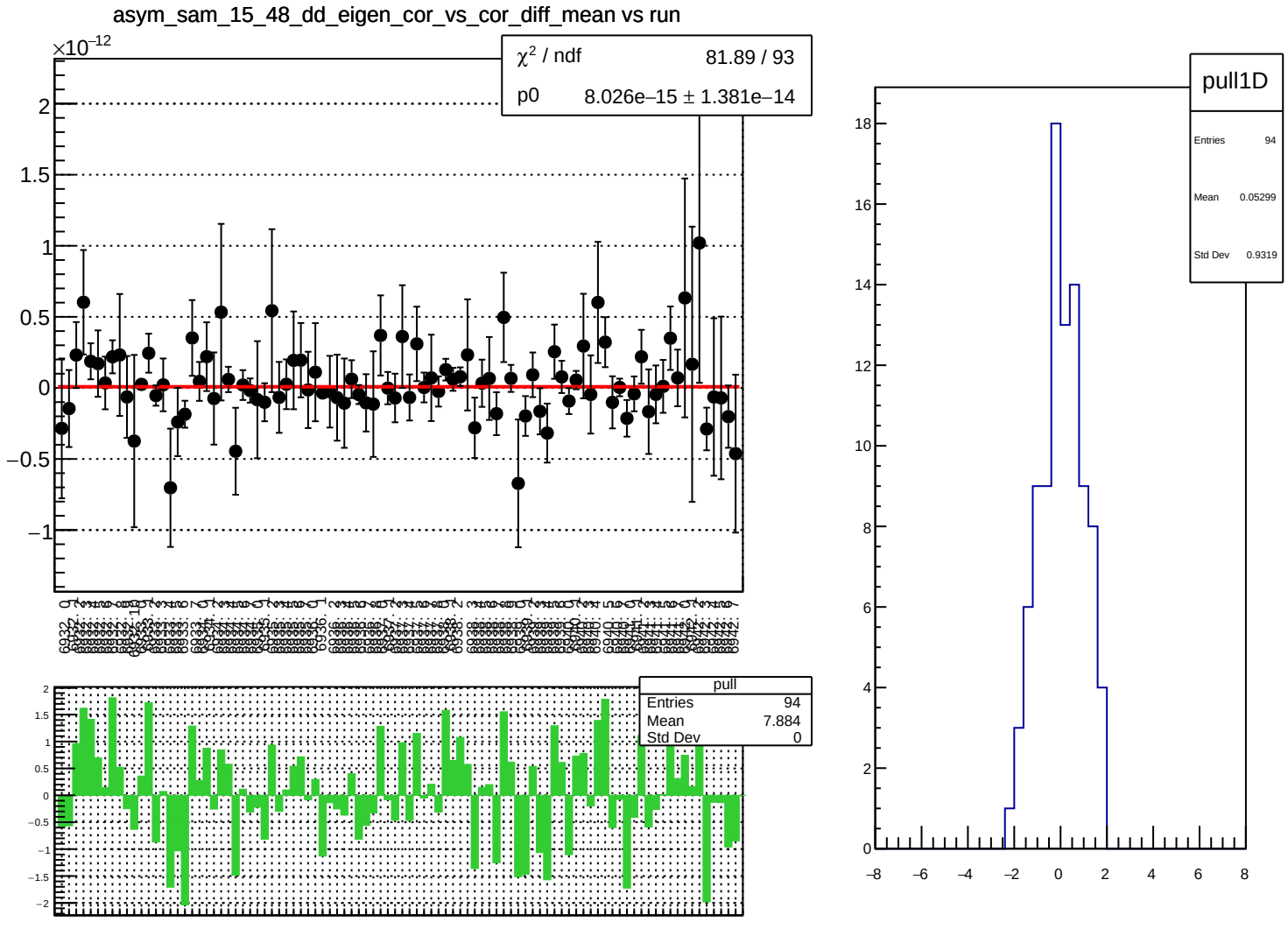

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4286 / 93
p0 0.001568 ± 1.182e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014

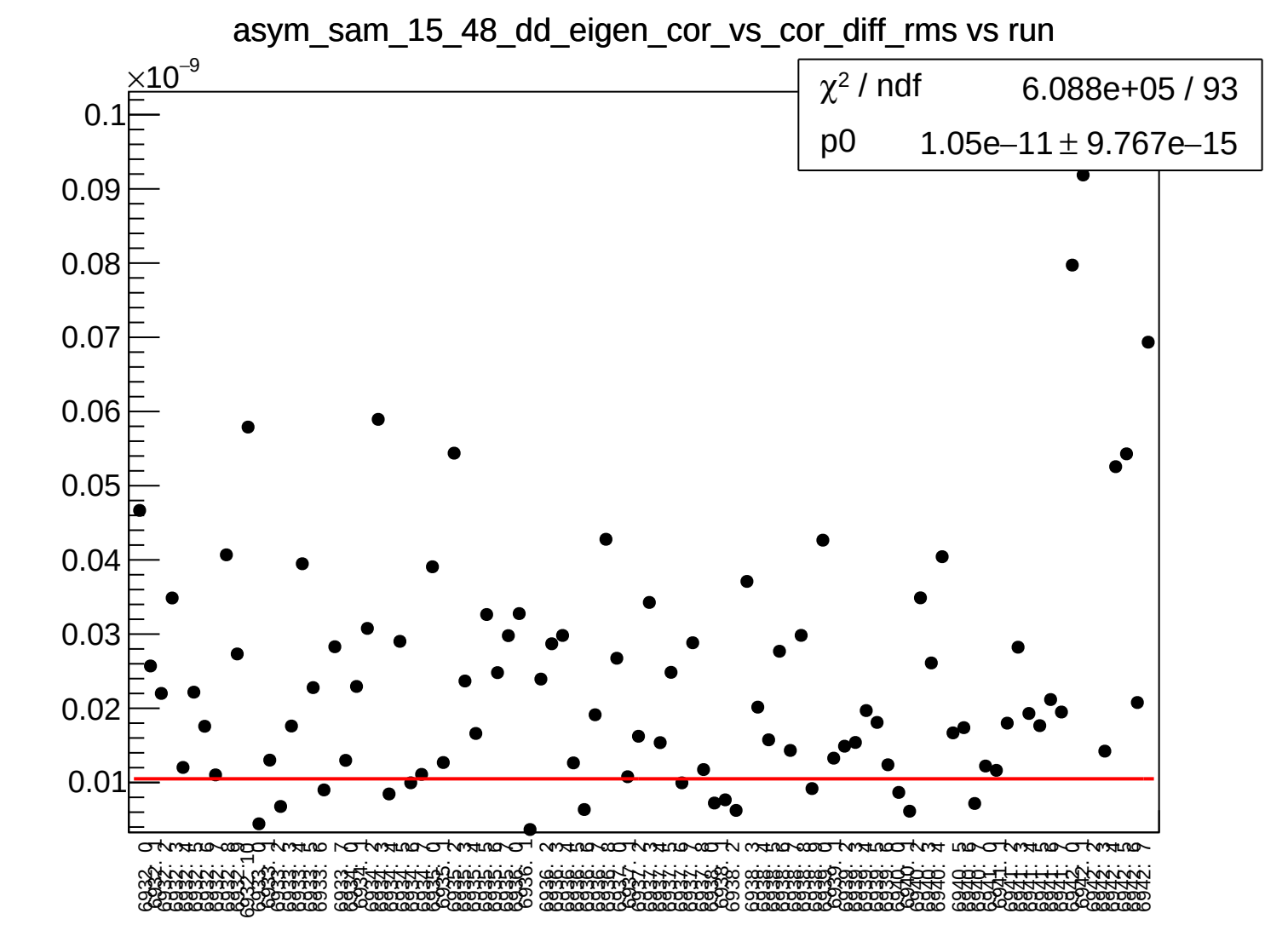

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.6 / 93
p0 −0.01765 ± 0.0299
pull
Entries 94
Mean −114.5
Std Dev 0
pull1D
Entries 94
Mean 0.01224
Std Dev 0.9763

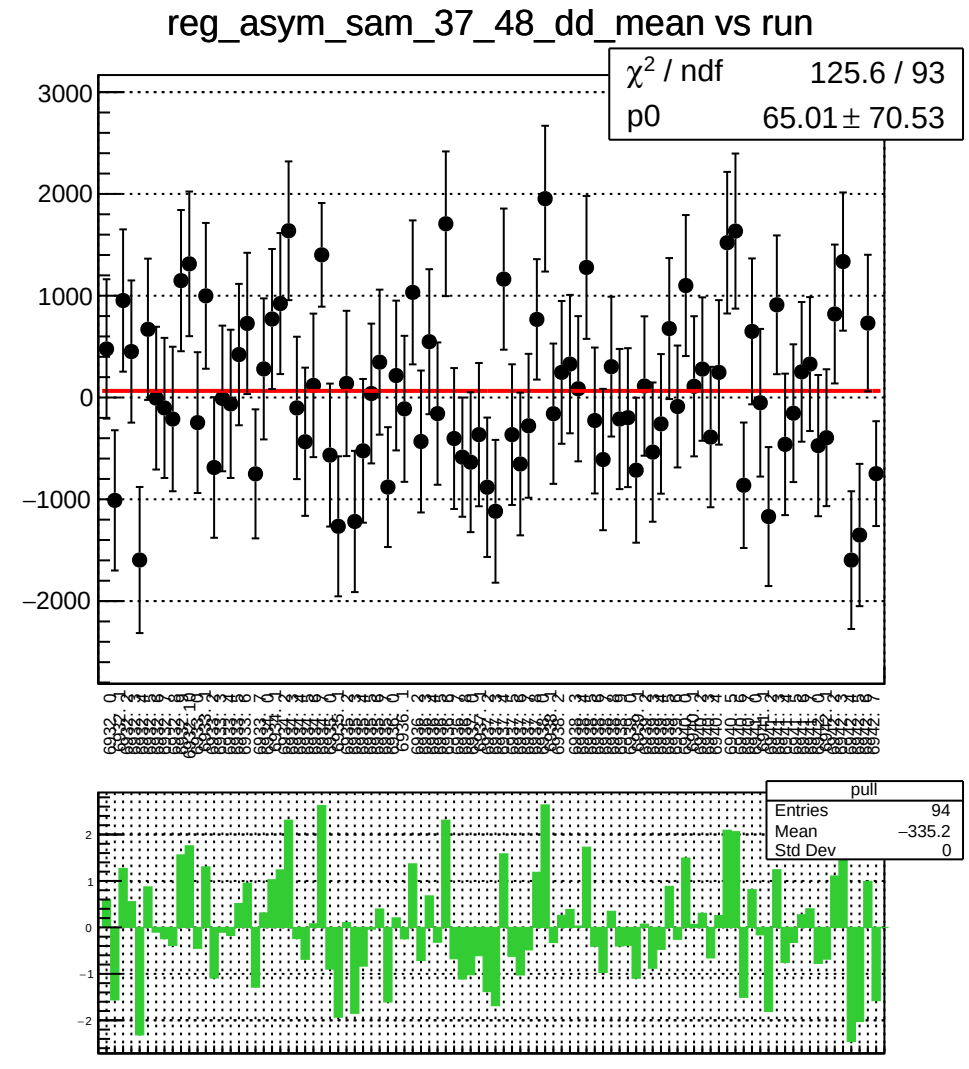

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.603e+04 / 93
p0 27.88 ± 0.02115
70
60
50
40
30
20

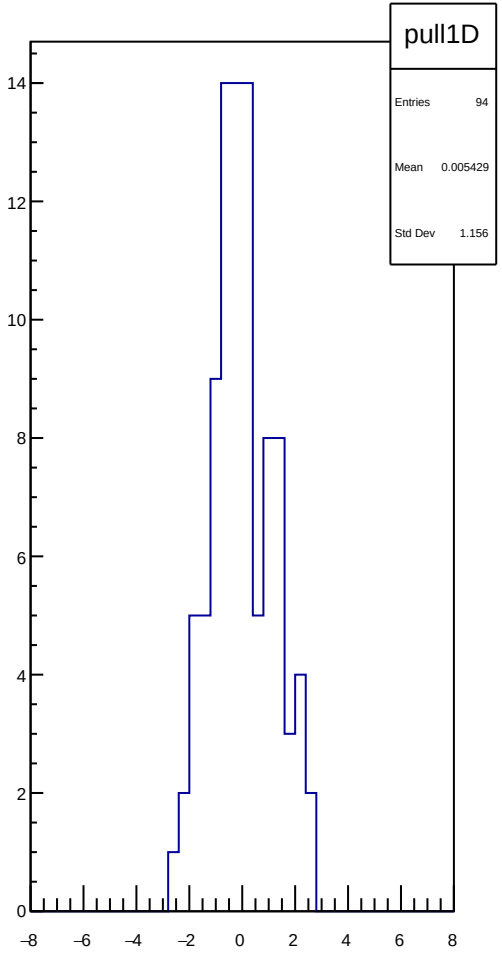

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.6 / 93
p0 −0.01765 ± 0.0299
pull
Entries 94
Mean −114.5
Std Dev 0
pull1D
Entries 94
Mean 0.01224
Std Dev 0.9763

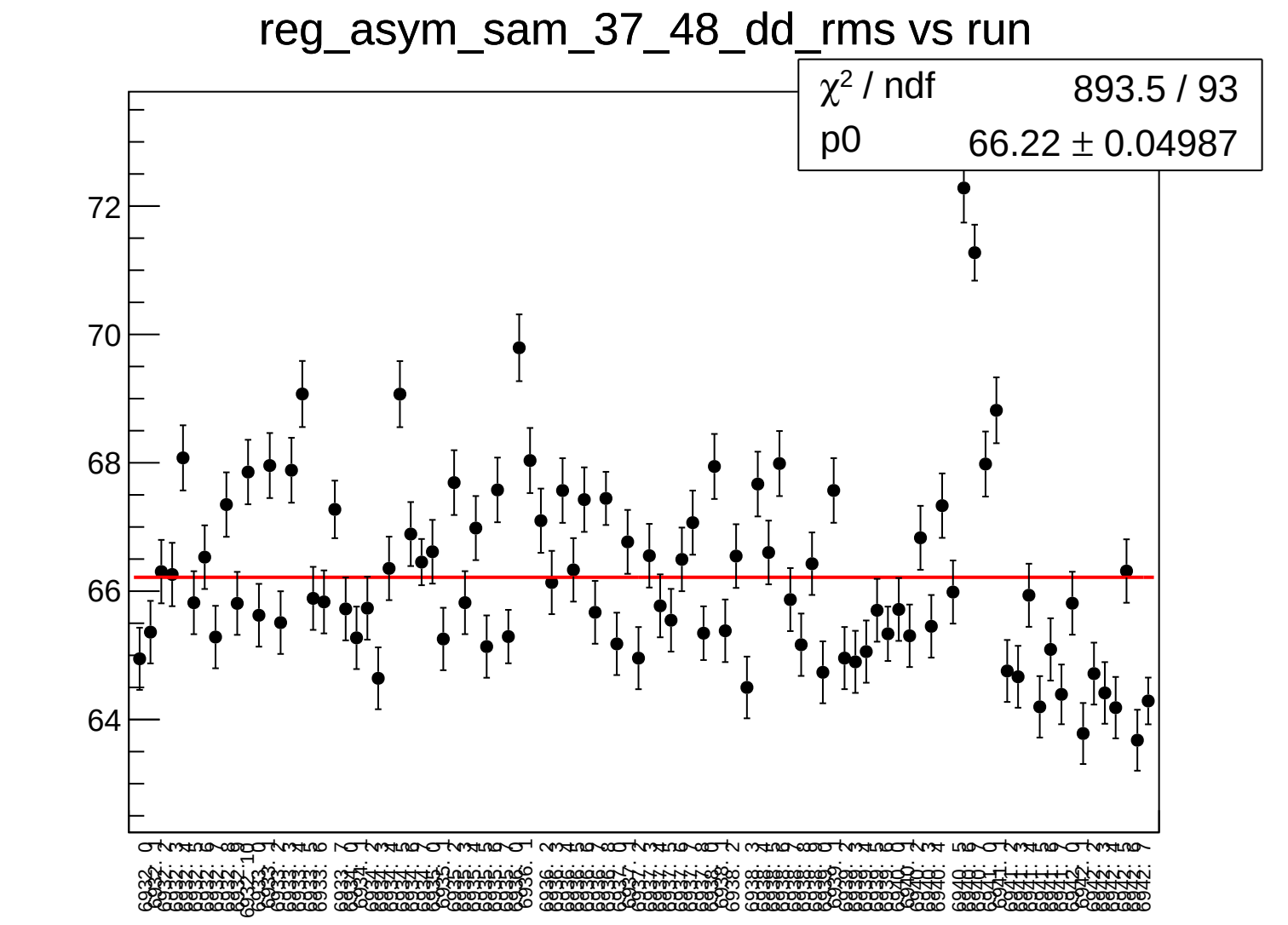

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.603e+04 / 93
p0 27.88 ± 0.02115
70
60
50
40
30
20

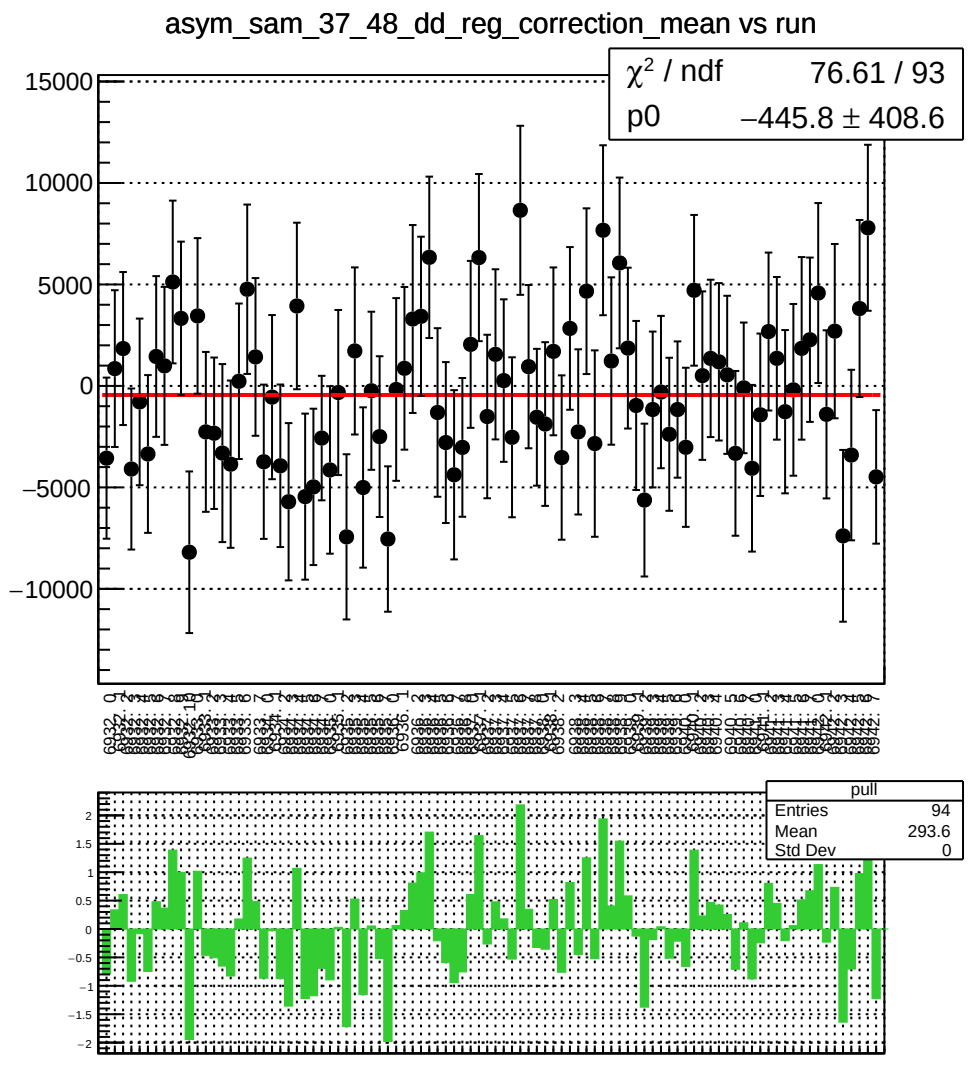

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.89 / 93
p0 8.026e−15 ± 1.381e−14
pull
Entries 94
Mean 7.884
Std Dev 0
pull1D
Entries 94
Mean 0.05299
Std Dev 0.9319

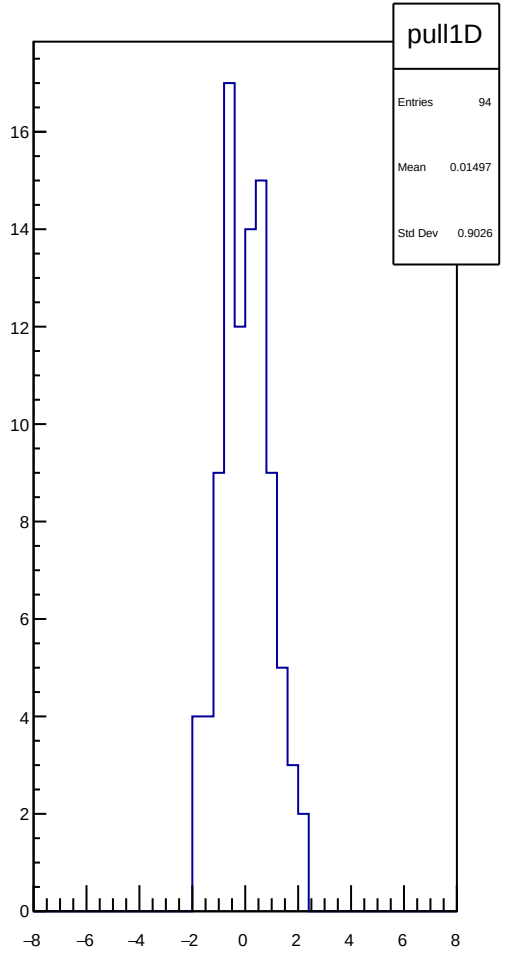

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.088e+05 / 93
p0 1.05e−11 ± 9.767e−15
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

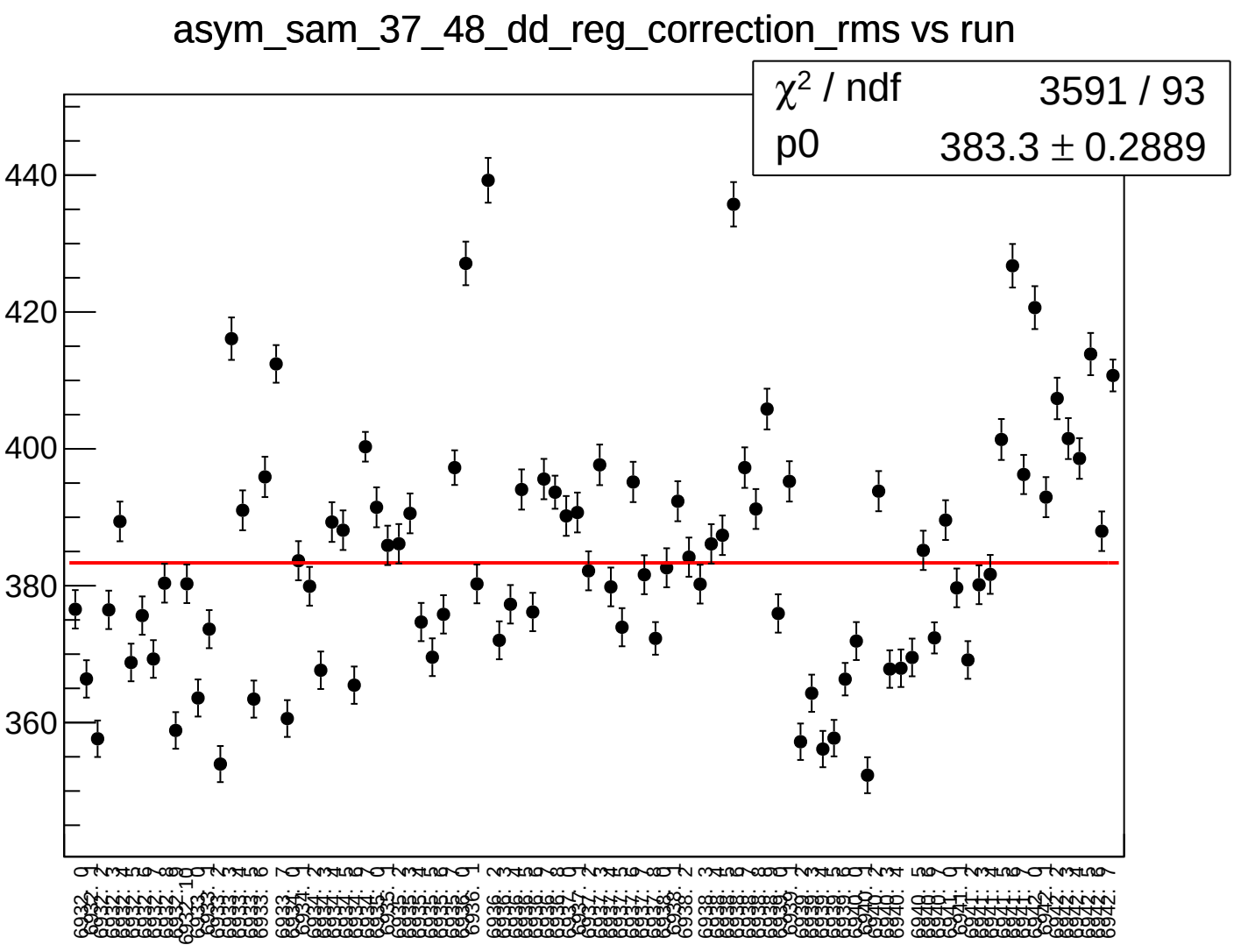

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 125.6 / 93
p0 65.01 ± 70.53
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −335.2
Std Dev 0
2
1
0
−1
−2

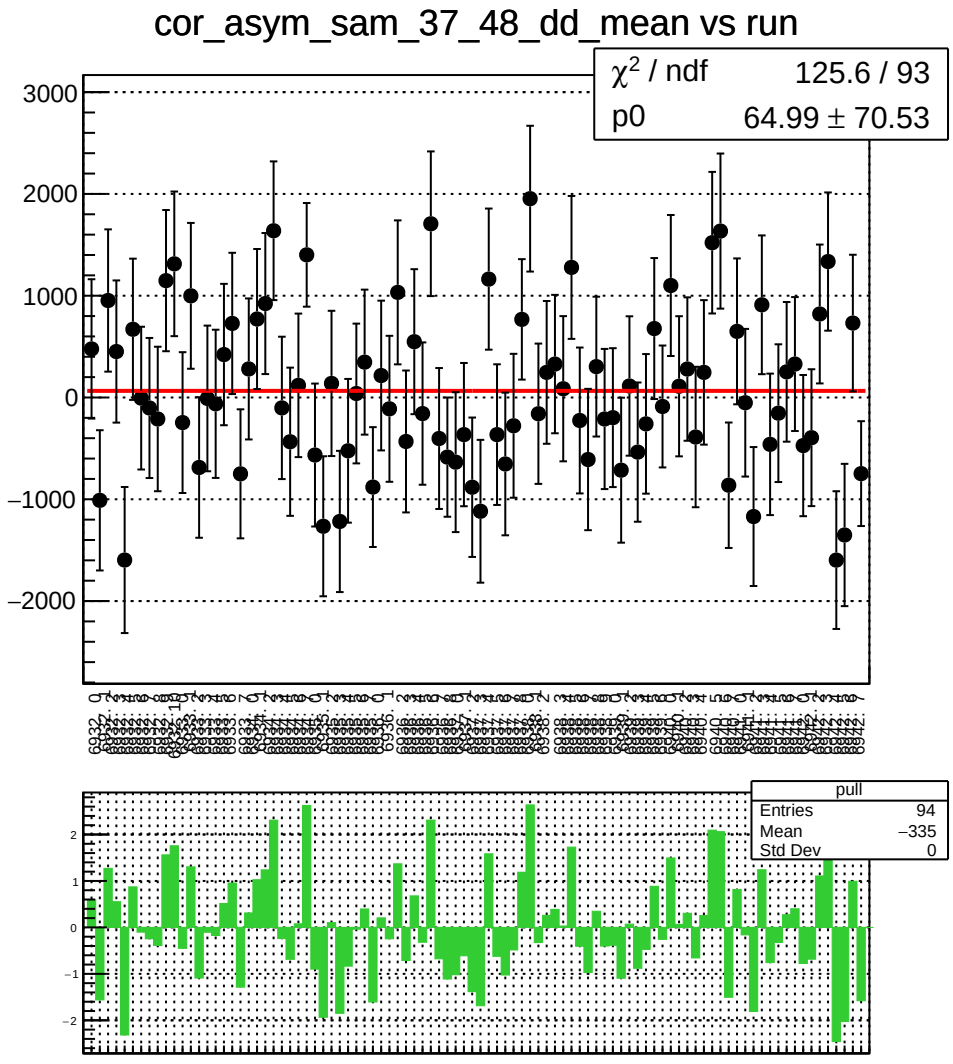

pull1D
Entries 94
Mean 0.005429
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

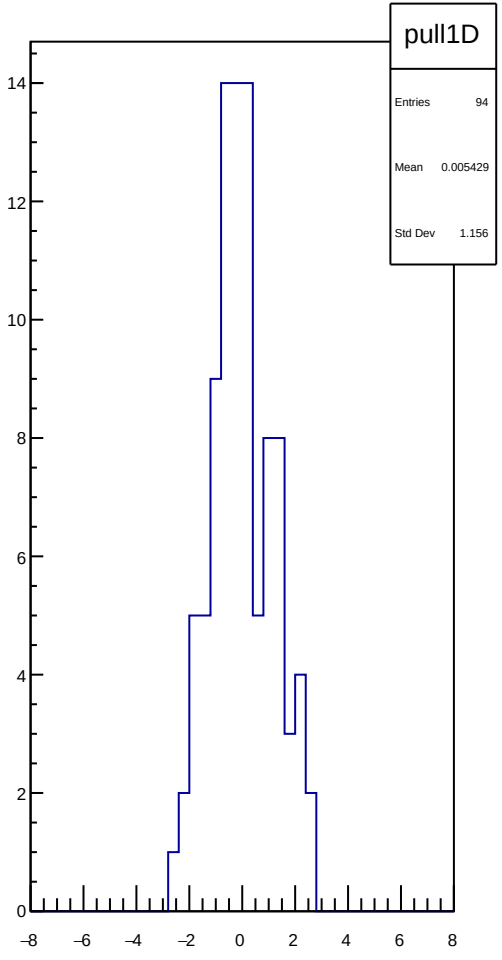

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 893.5 / 93
p0 66.22 ± 0.04987
72
70
68
66
64

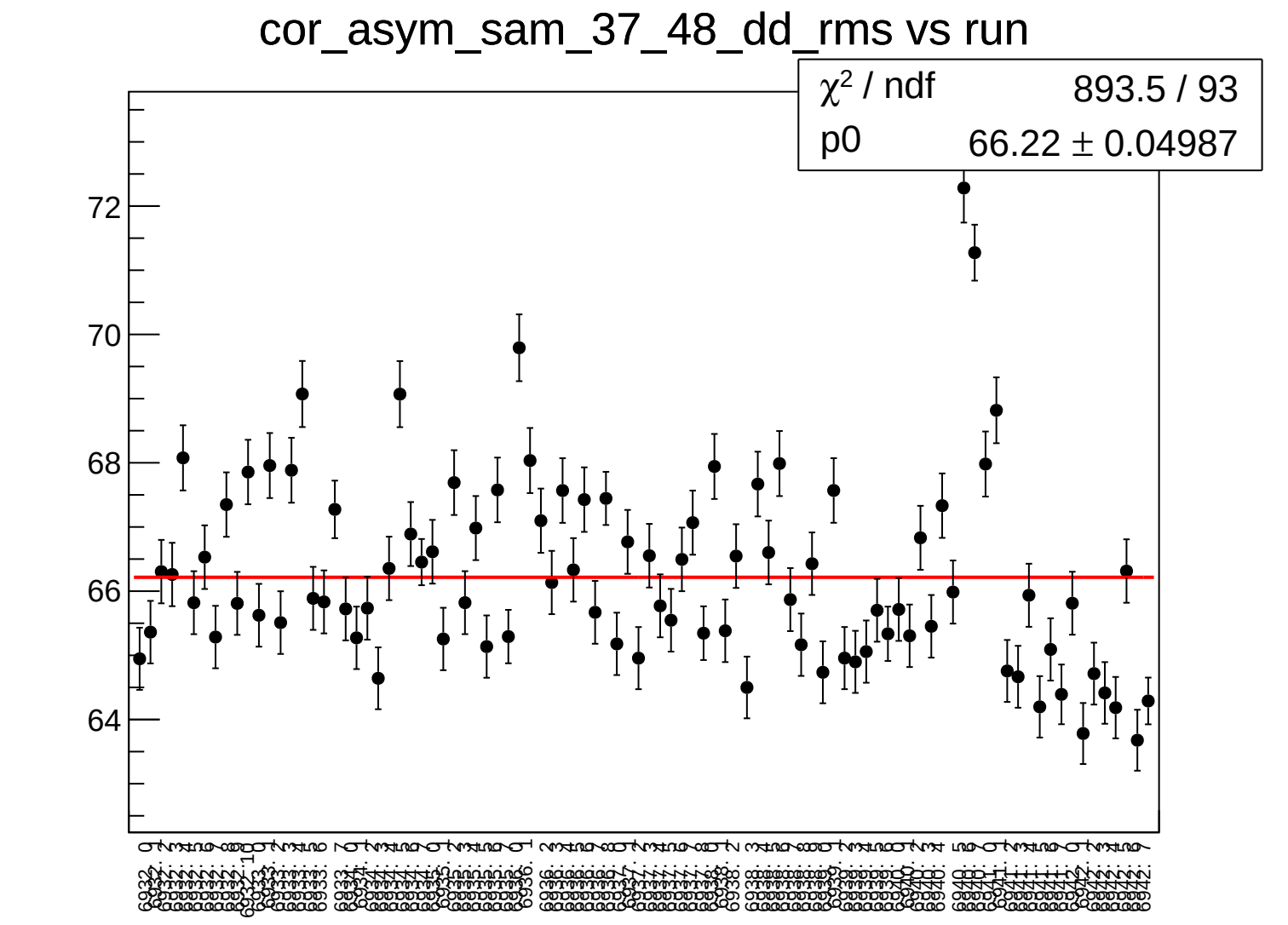

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 76.61 / 93
p0 −445.8 ± 408.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 293.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

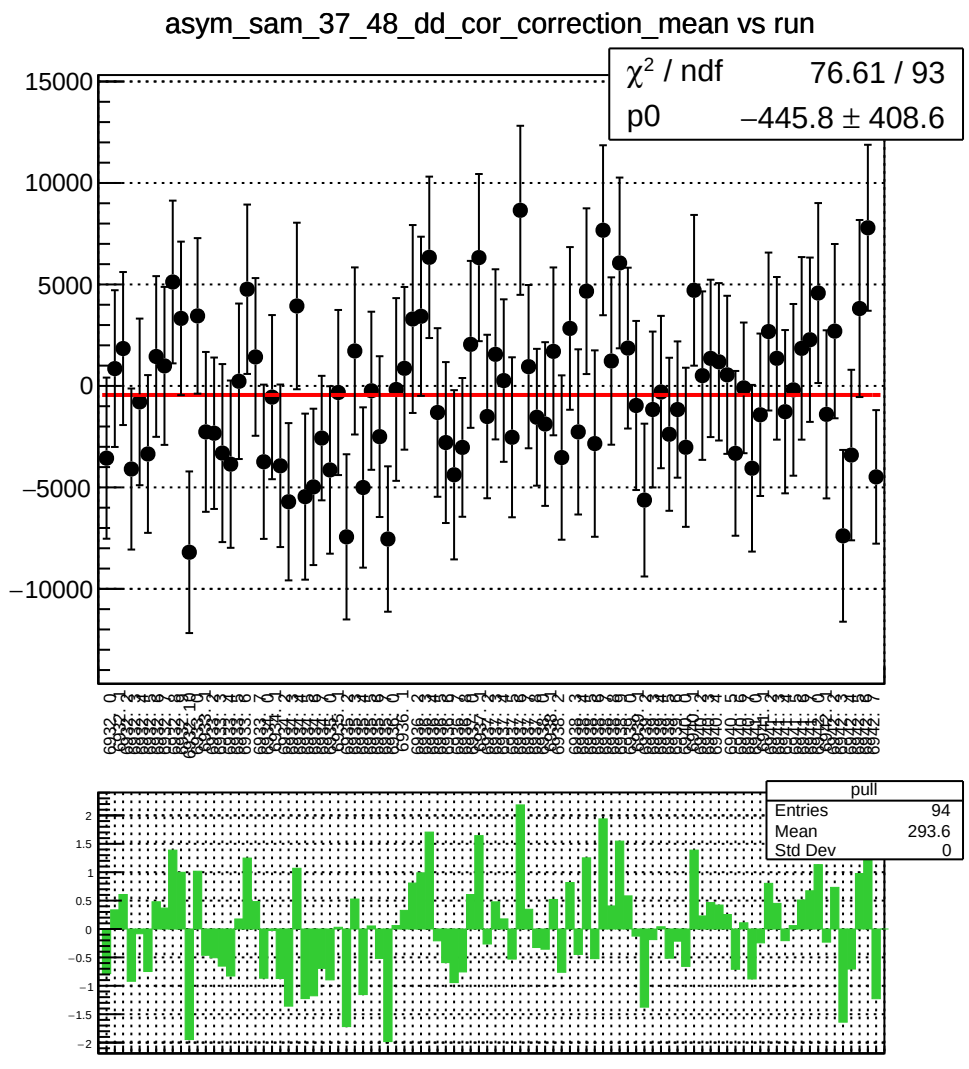

pull1D
Entries 94
Mean 0.01497
Std Dev 0.9026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

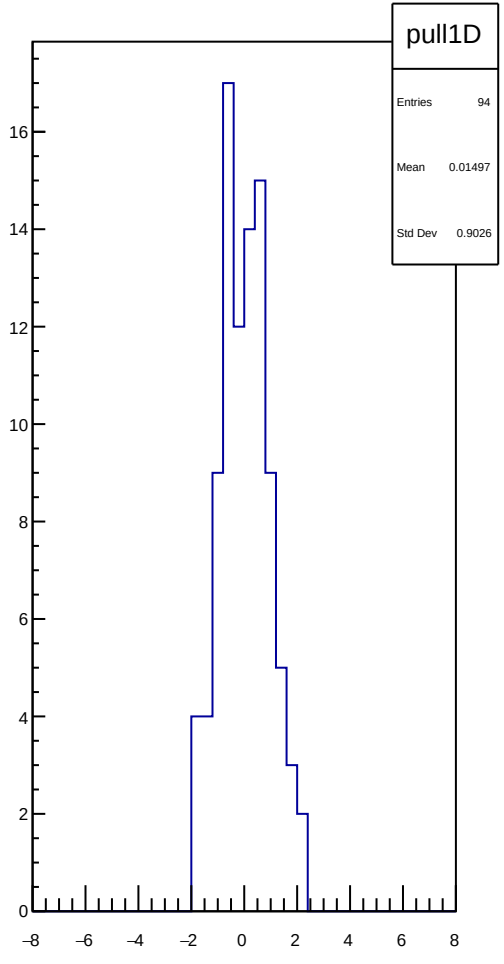

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3591 / 93
p0 383.3 ± 0.2889
440
420
400
380
360

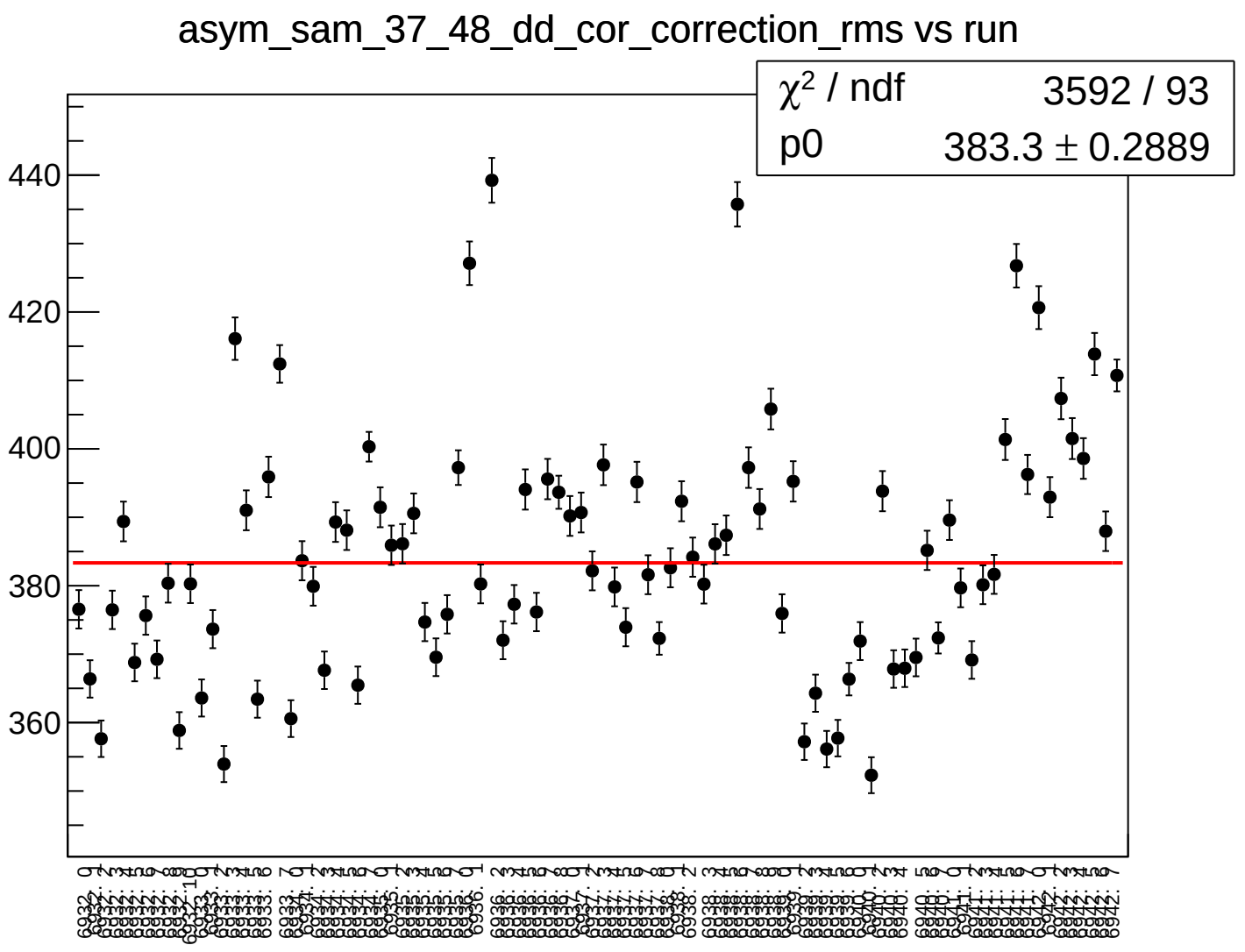

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 125.6 / 93
p0 64.99 ± 70.53
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −335
Std Dev 0
2
1
0
−1
−2

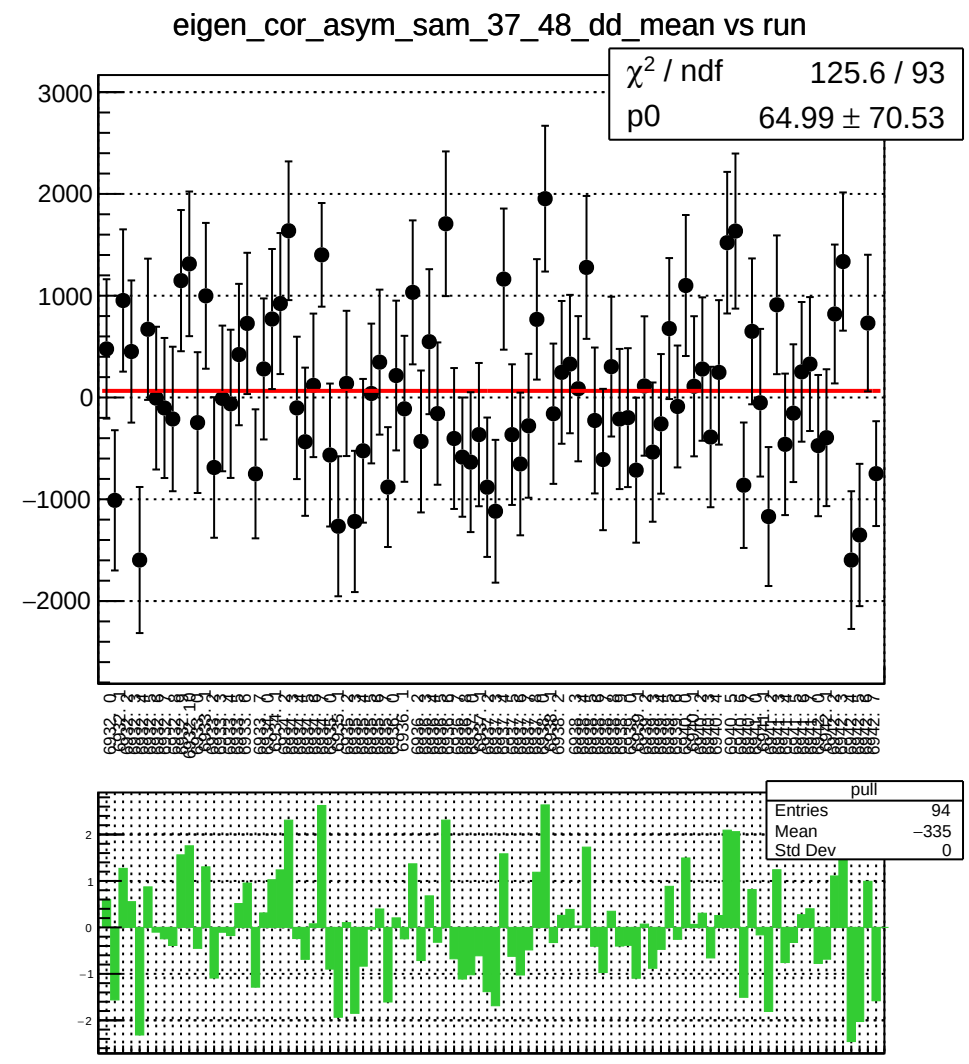

pull1D
Entries 94
Mean 0.005429
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

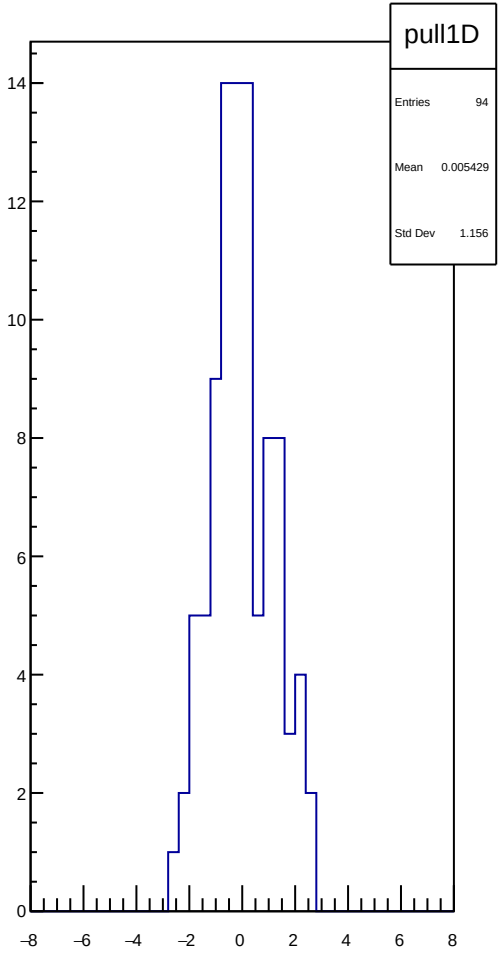

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 893.5 / 93
p0 66.22 ± 0.04987
72
70
68
66
64

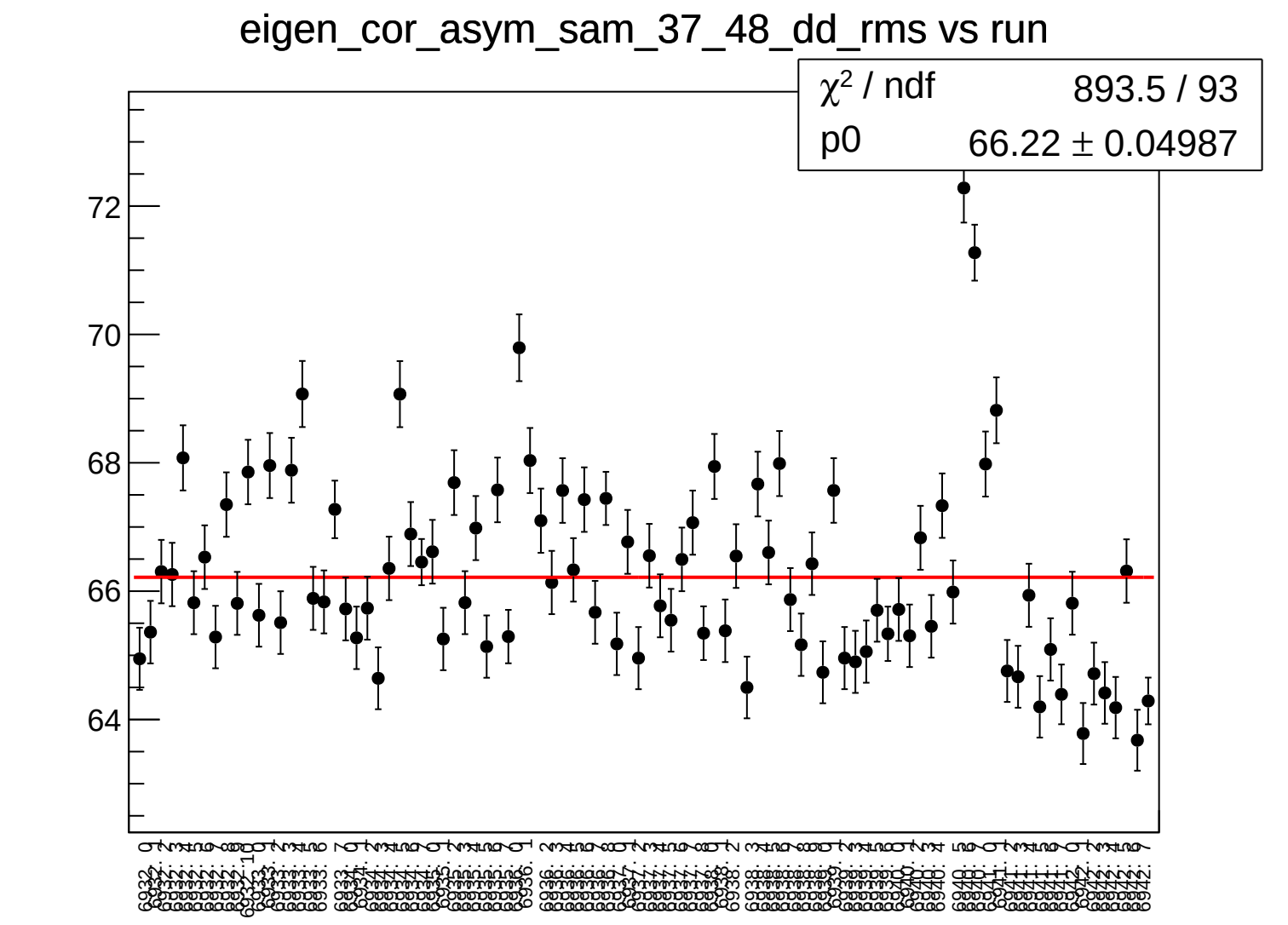

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 76.61 / 93
p0 −445.8 ± 408.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 293.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

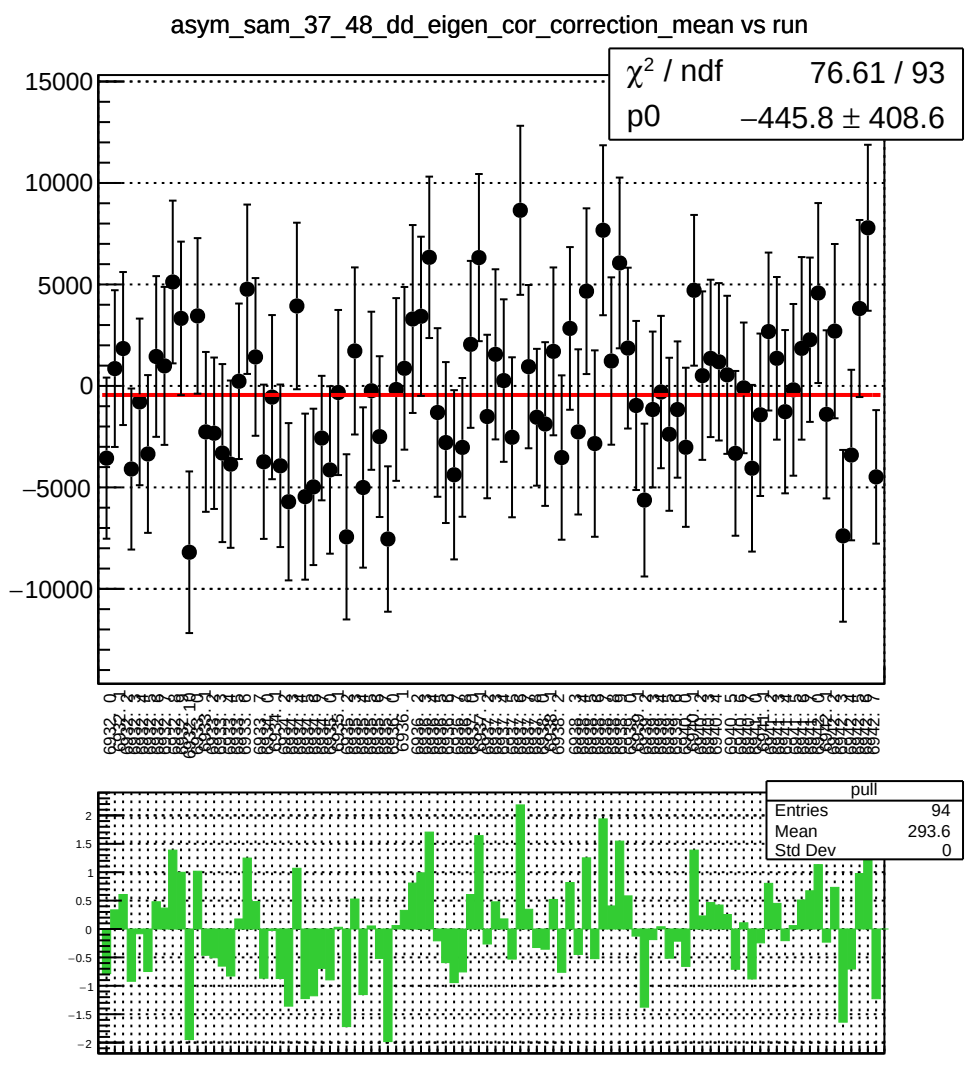

pull1D
Entries 94
Mean 0.01497
Std Dev 0.9026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

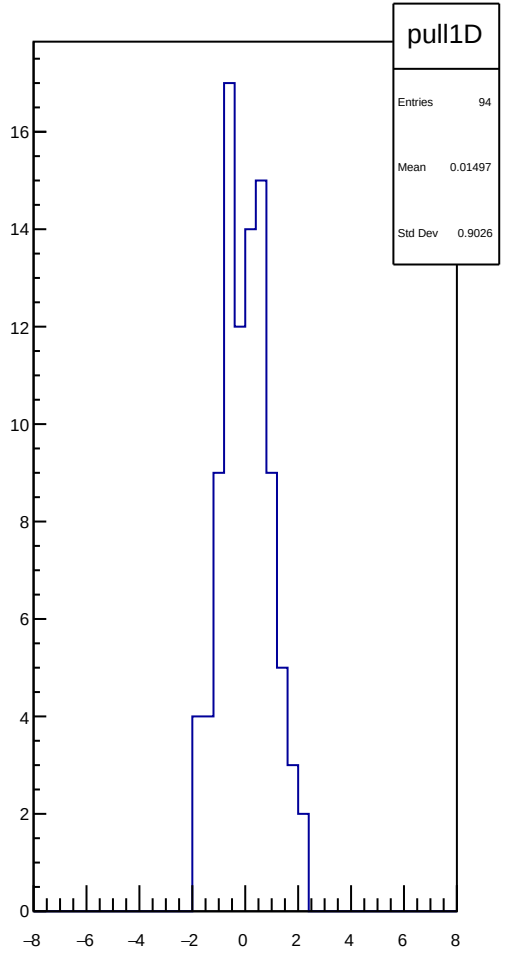

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3592 / 93
p0 383.3 ± 0.2889
440
420
400
380
360

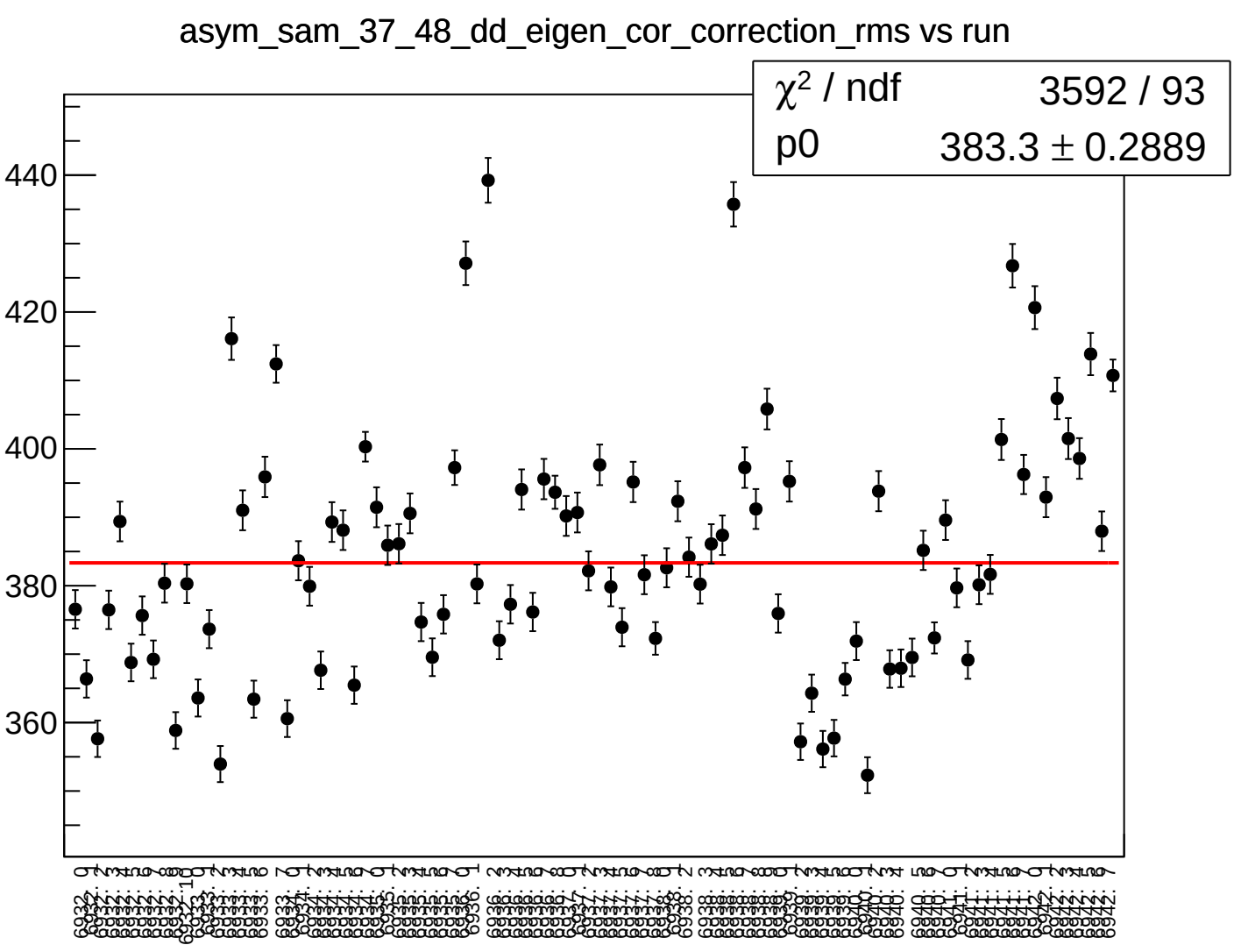

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 125.6 / 93
p0 64.99 ± 70.53
3000
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −335
Std Dev 0
2
1
0
−1
−2

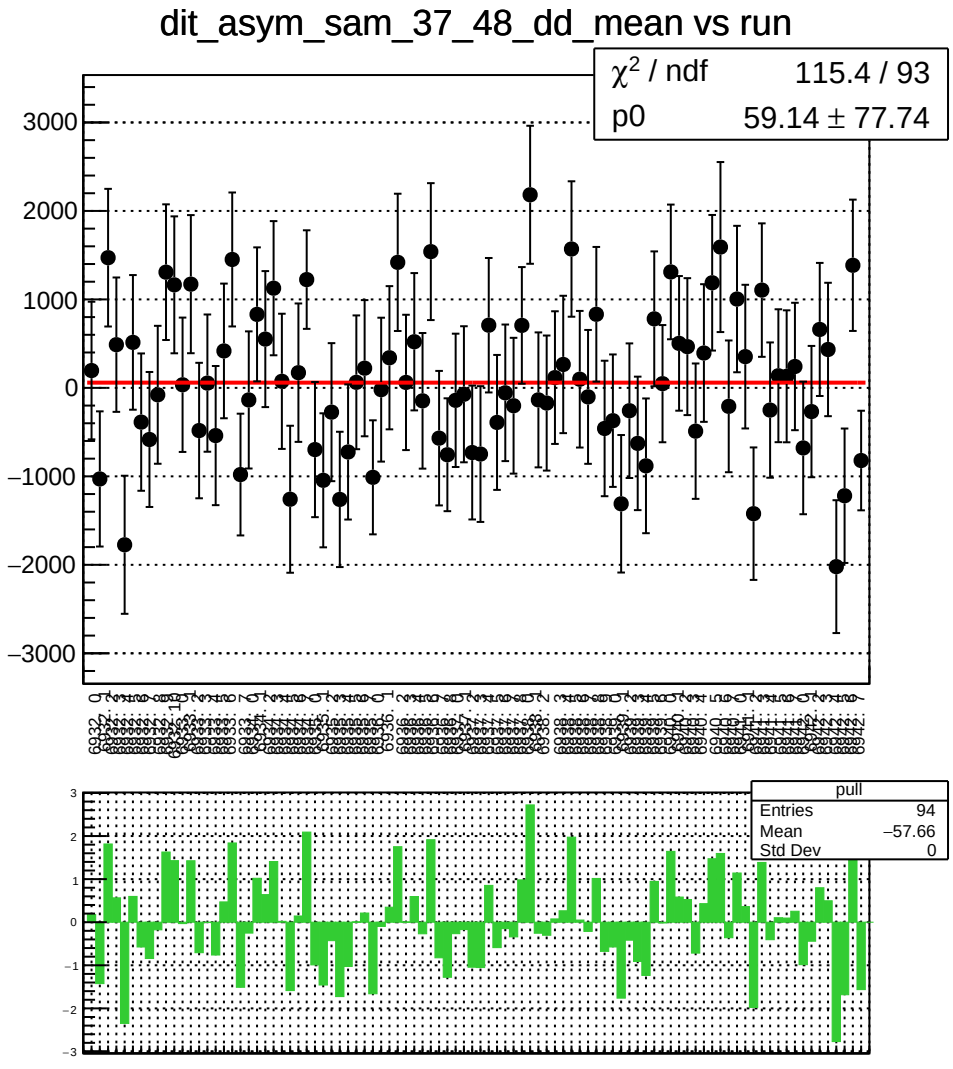

pull1D
Entries 94
Mean 0.005429
Std Dev 1.156
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

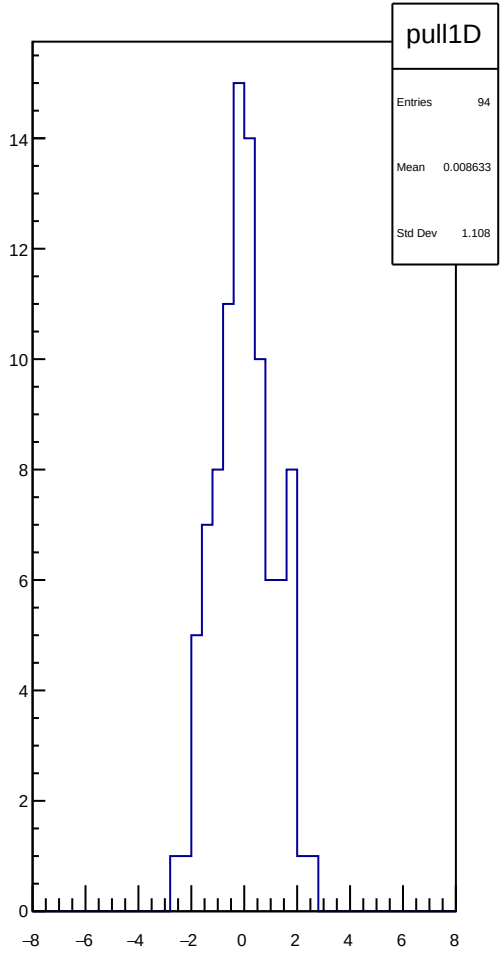

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 893.5 / 93
p0 66.22 ± 0.04987
72
70
68
66
64

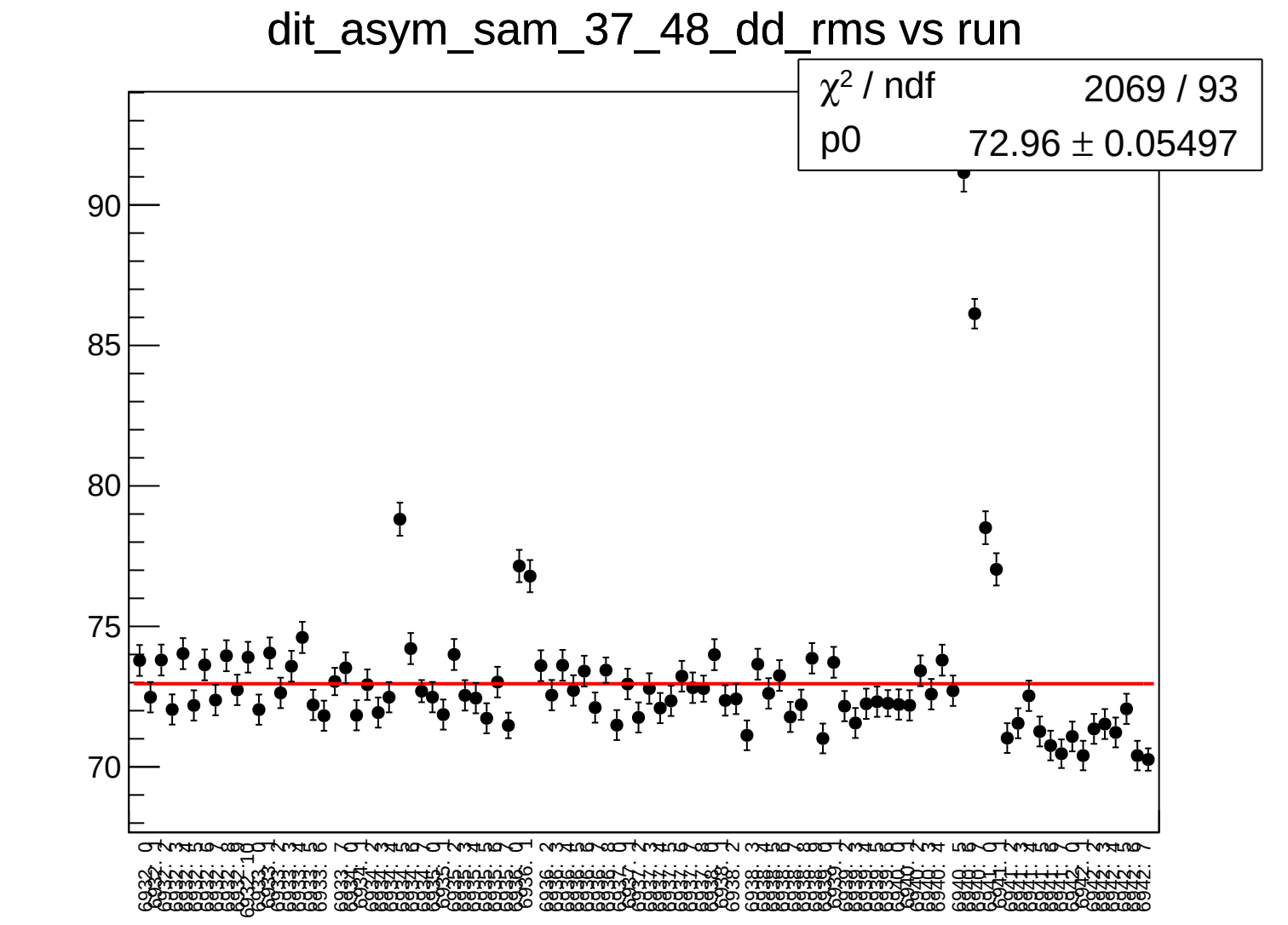

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.61 / 93
p0 −445.8 ± 408.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 293.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

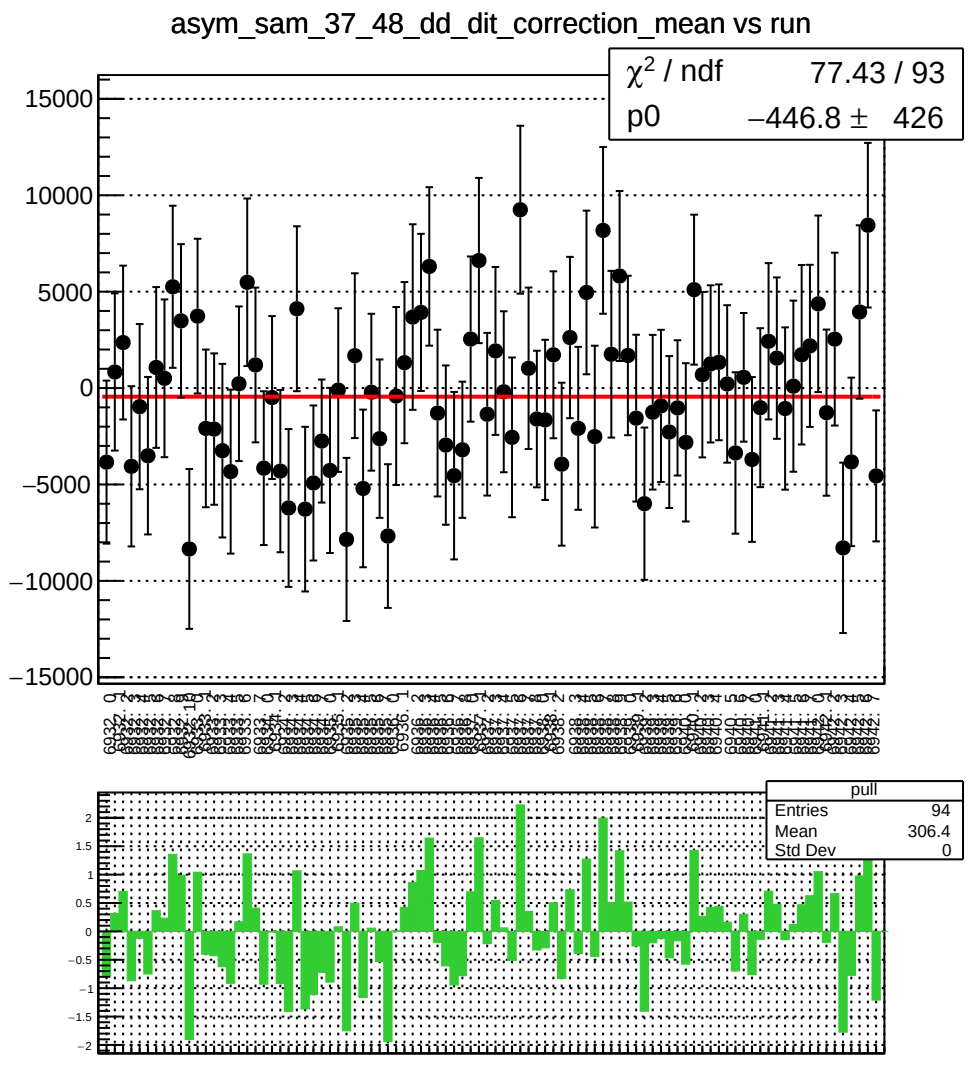

pull1D
Entries 94
Mean 0.01497
Std Dev 0.9026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

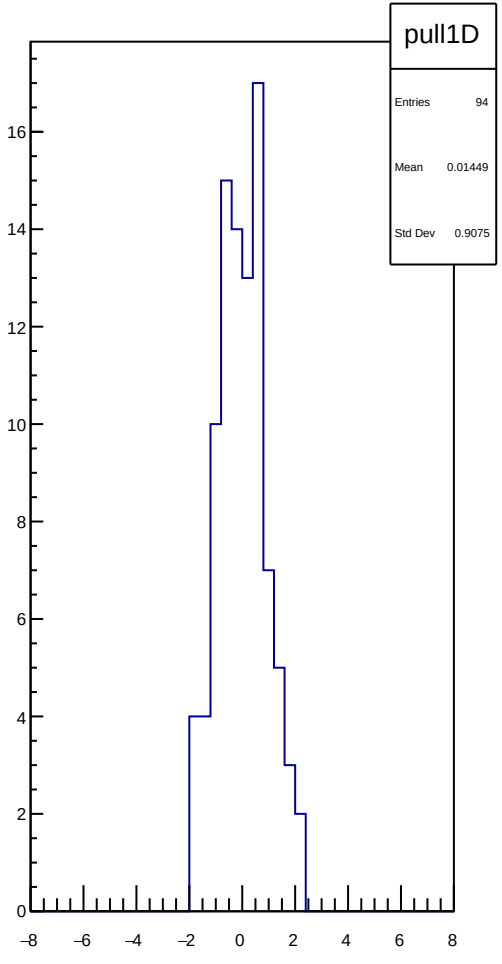

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3592 / 93
p0 383.3 ± 0.2889
440
420
400
380
360

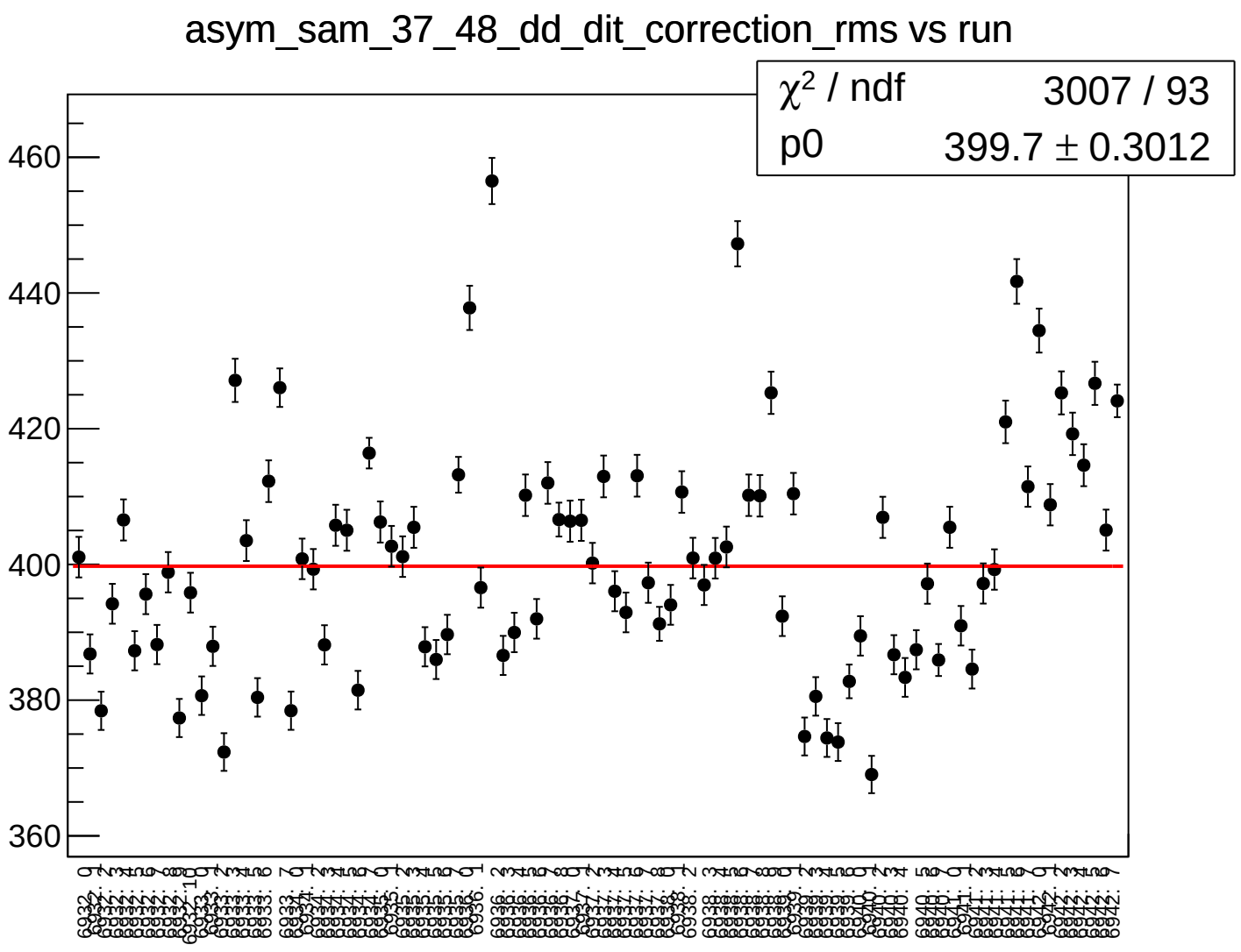

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 115.4 / 93
p0 59.14 ± 77.74
pull
Entries 94
Mean −57.66
Std Dev 0

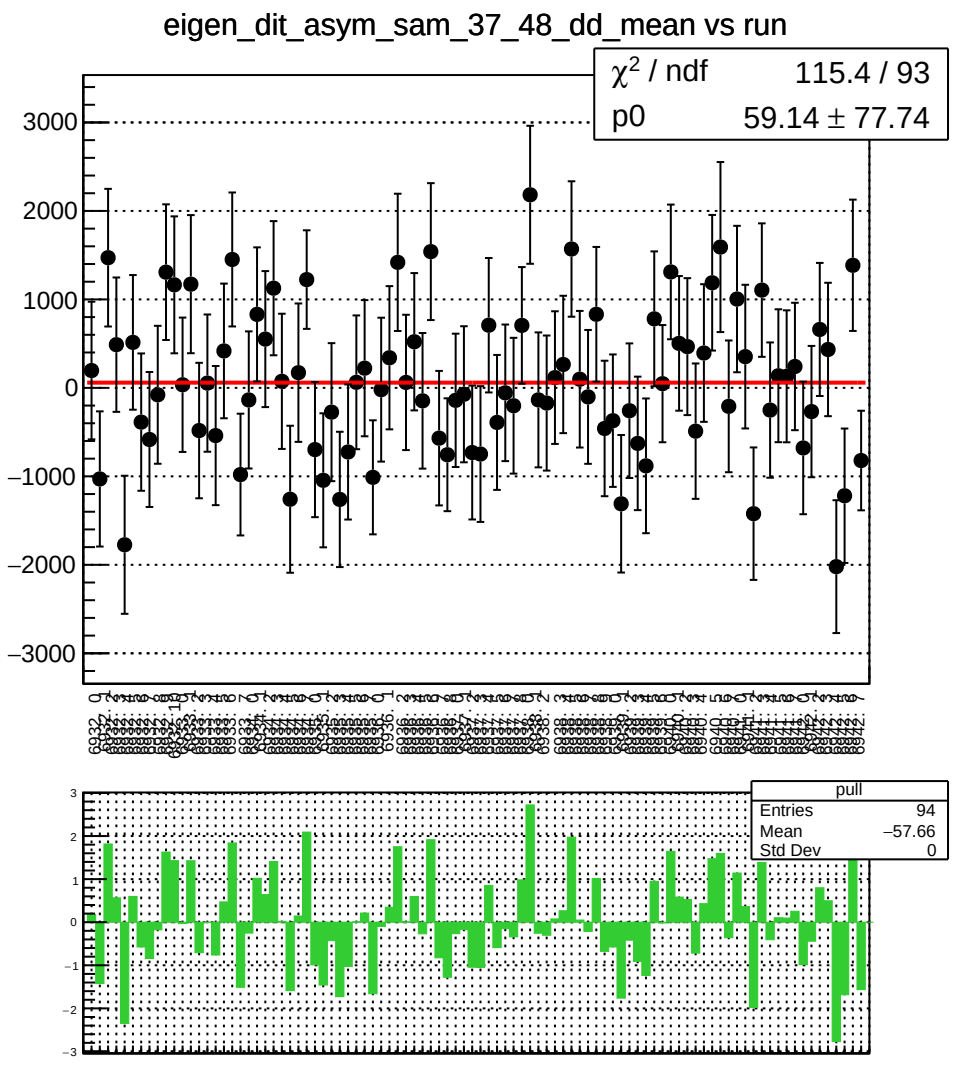

pull1D
Entries 94
Mean 0.008633
Std Dev 1.108

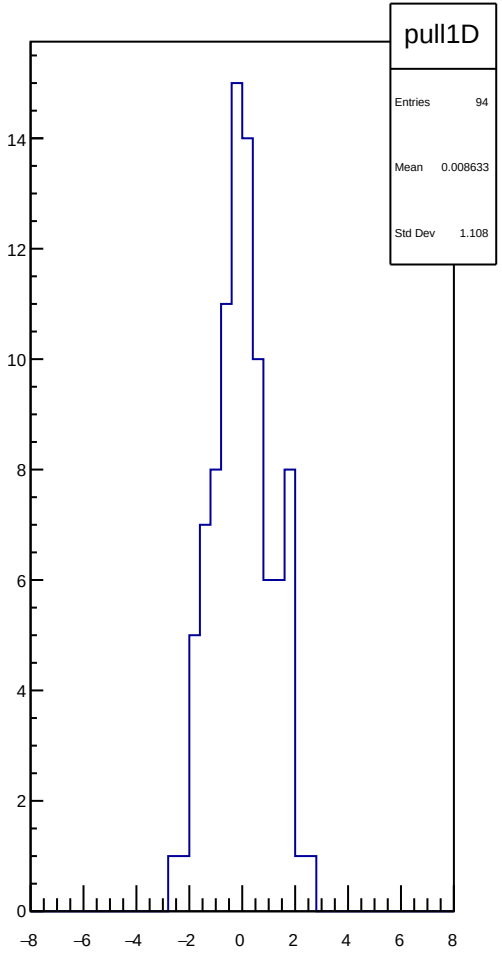

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2069 / 93
p0 72.96 ± 0.05497
90
85
80
75
70

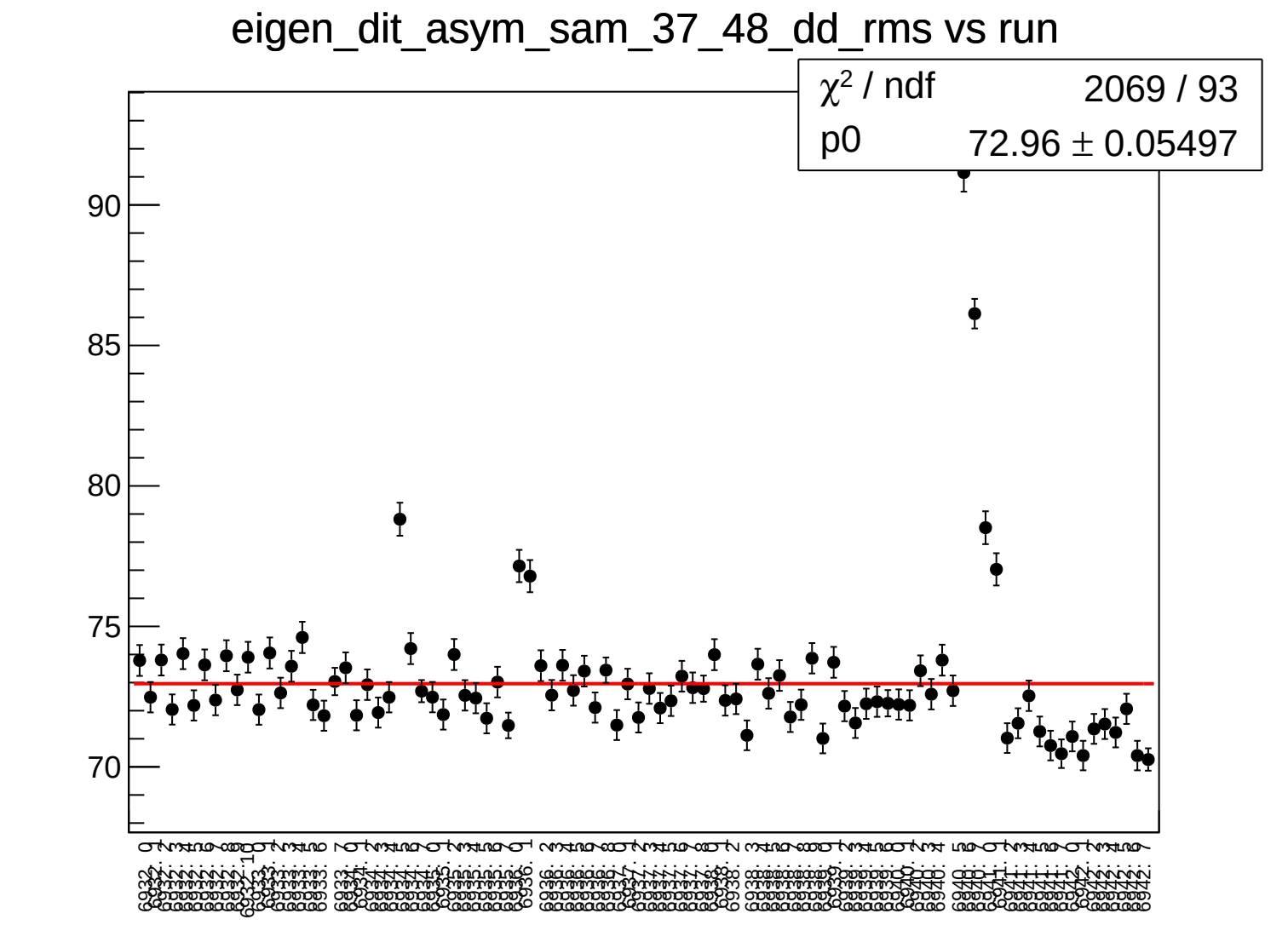

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 77.43 / 93
p0 −446.8 ± 426
pull
Entries 94
Mean 306.4
Std Dev 0

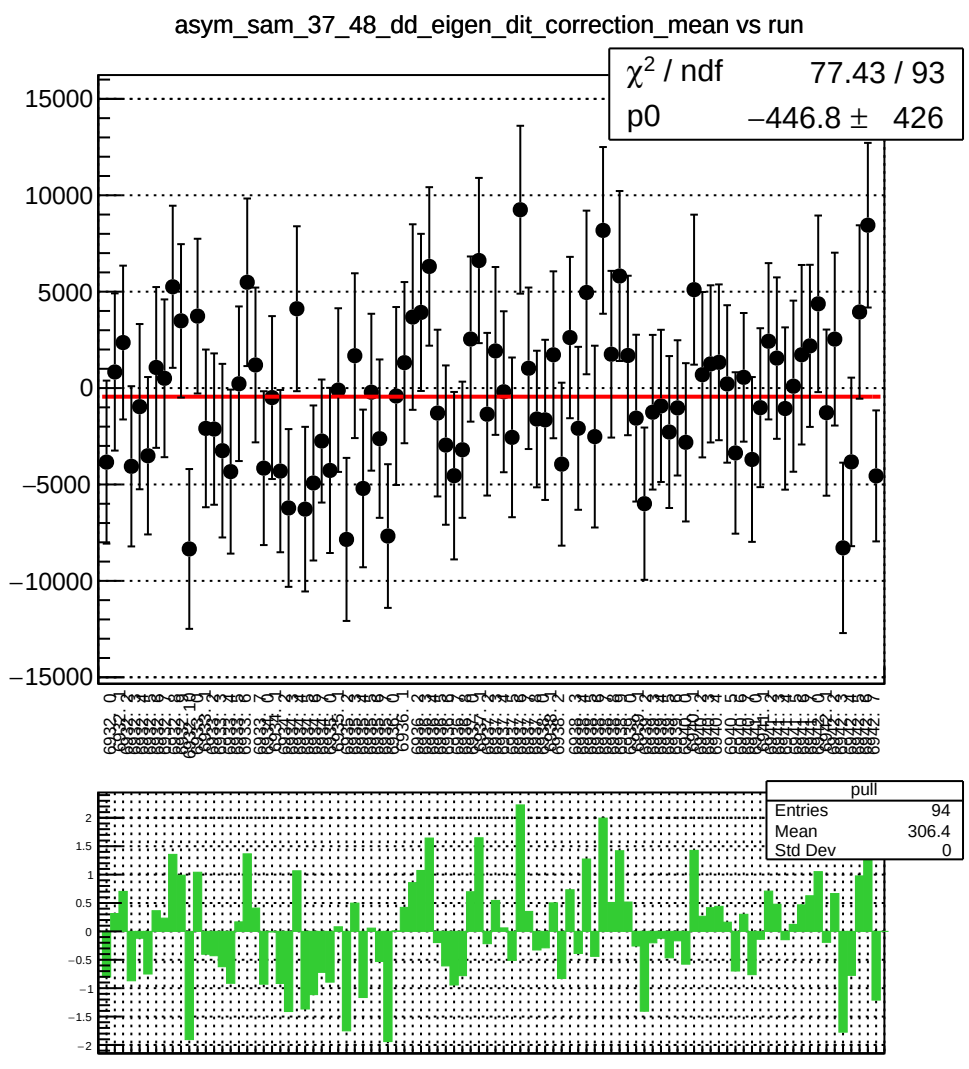

pull1D
Entries 94
Mean 0.01449
Std Dev 0.9075

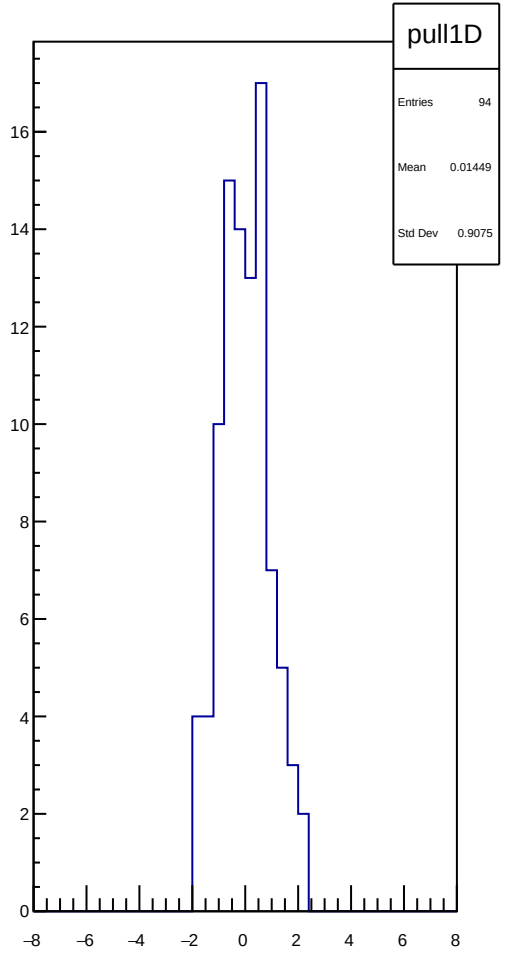

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3007 / 93
p0 399.7 ± 0.3012
460
440
420
400
380
360

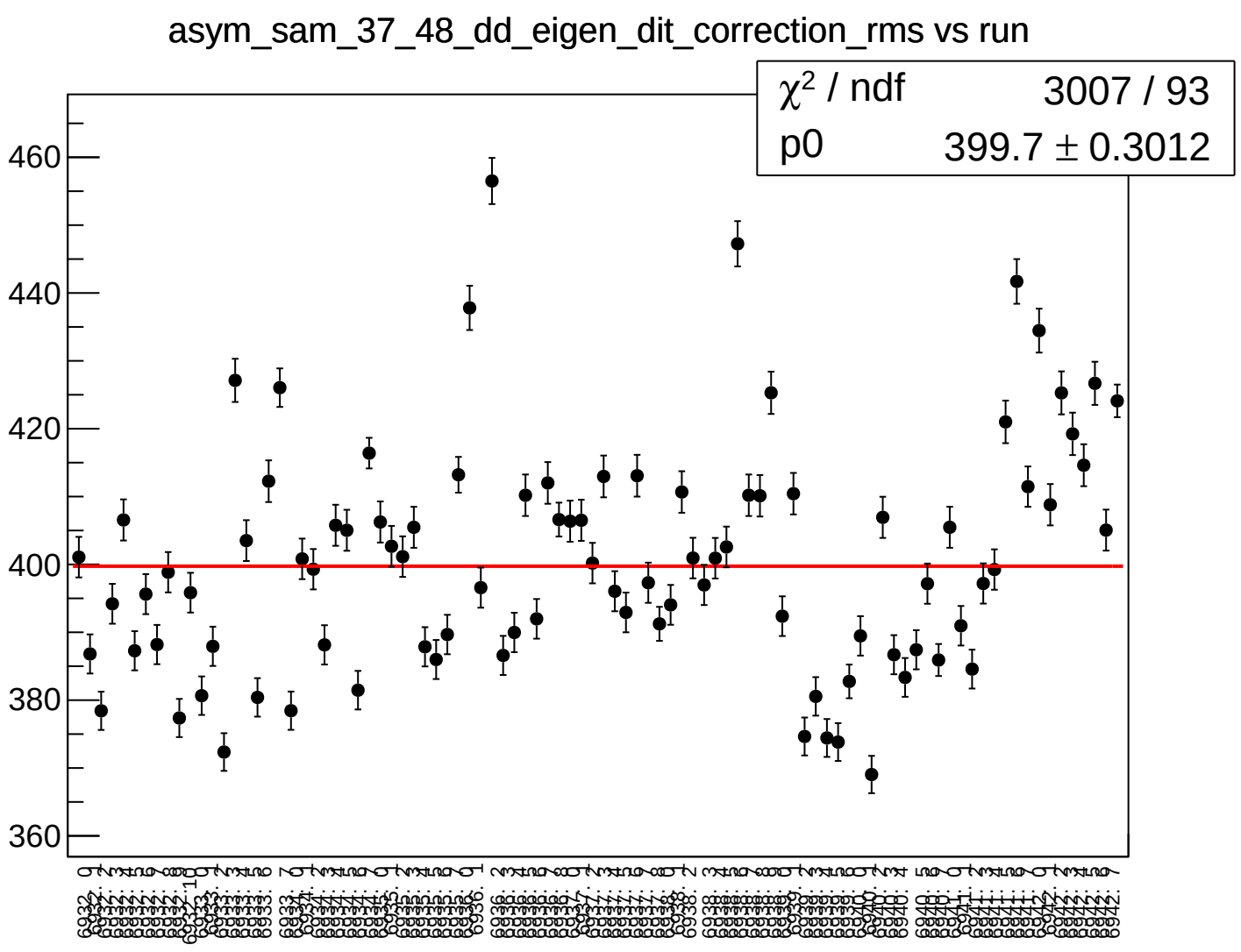

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 115.4 / 93
p0 59.14 ± 77.74
pull
Entries 94
Mean −57.66
Std Dev 0

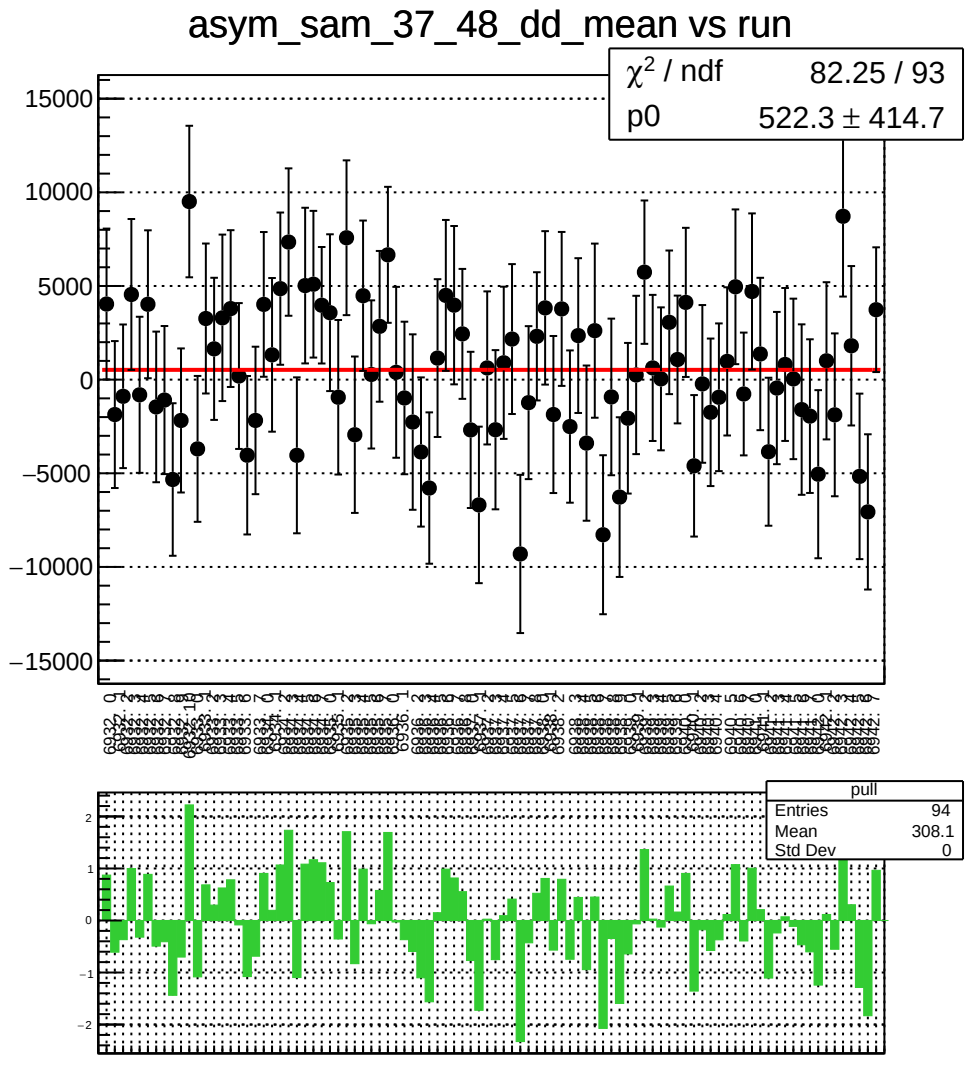

pull1D
Entries 94
Mean 0.008633
Std Dev 1.108

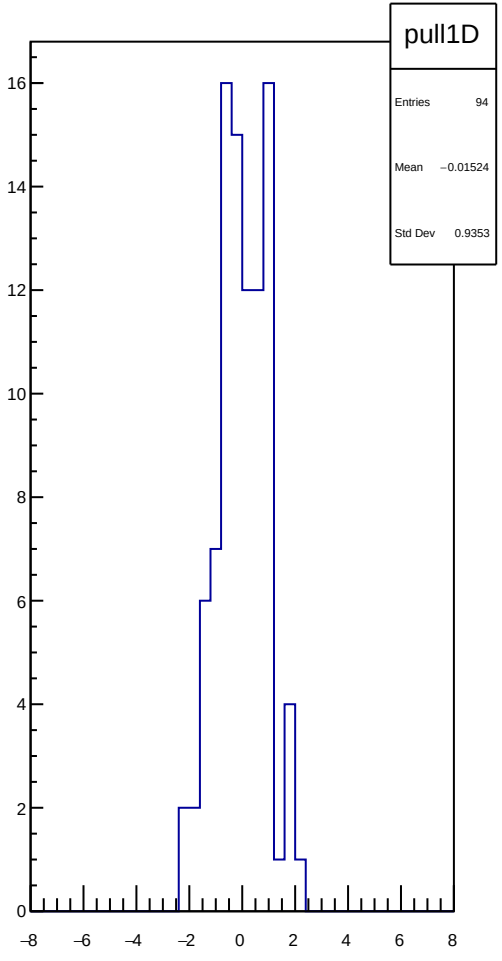

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2069 / 93
p0 72.96 ± 0.05497
90
85
80
75
70

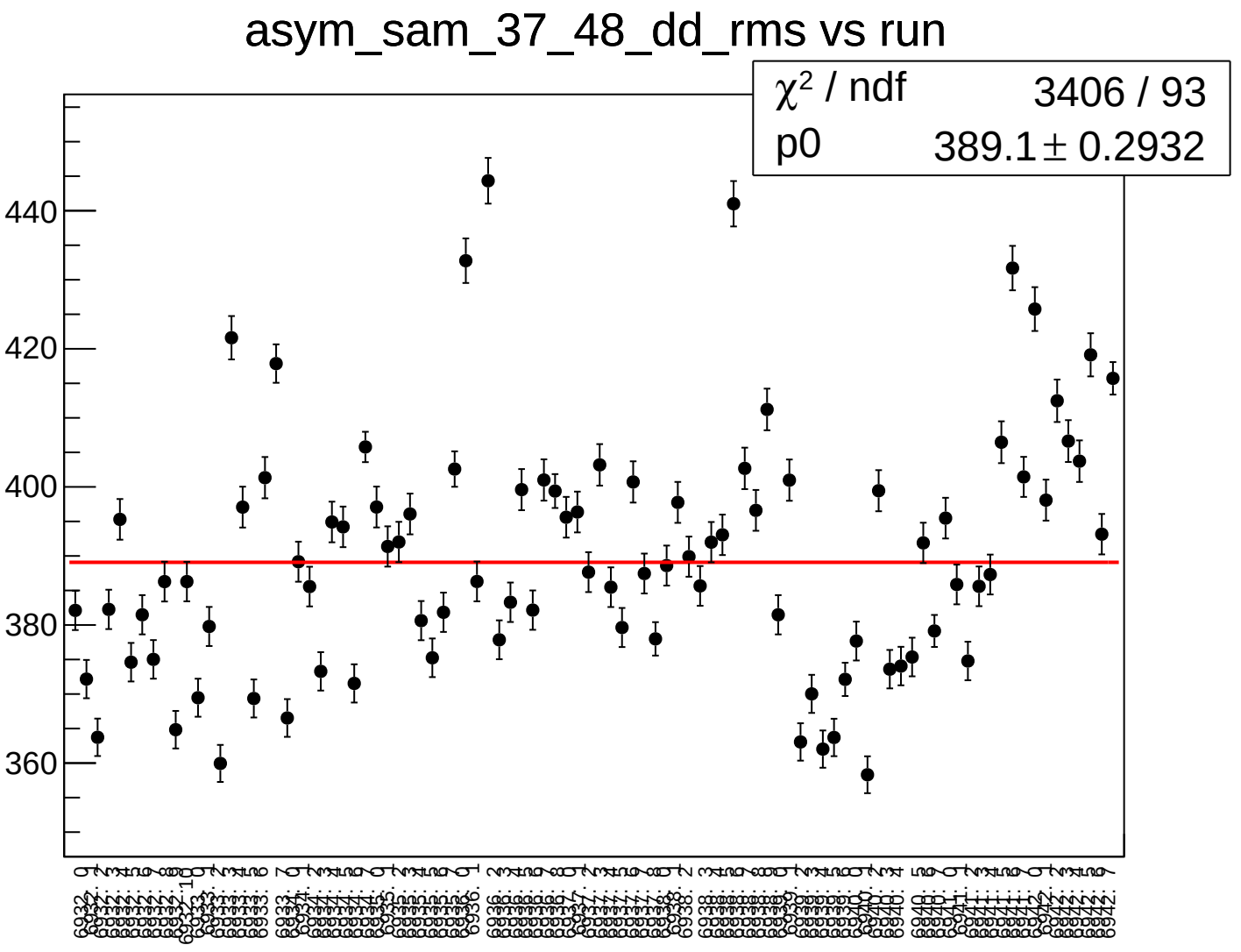

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.43 / 93
p0 −446.8 ± 426
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 306.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

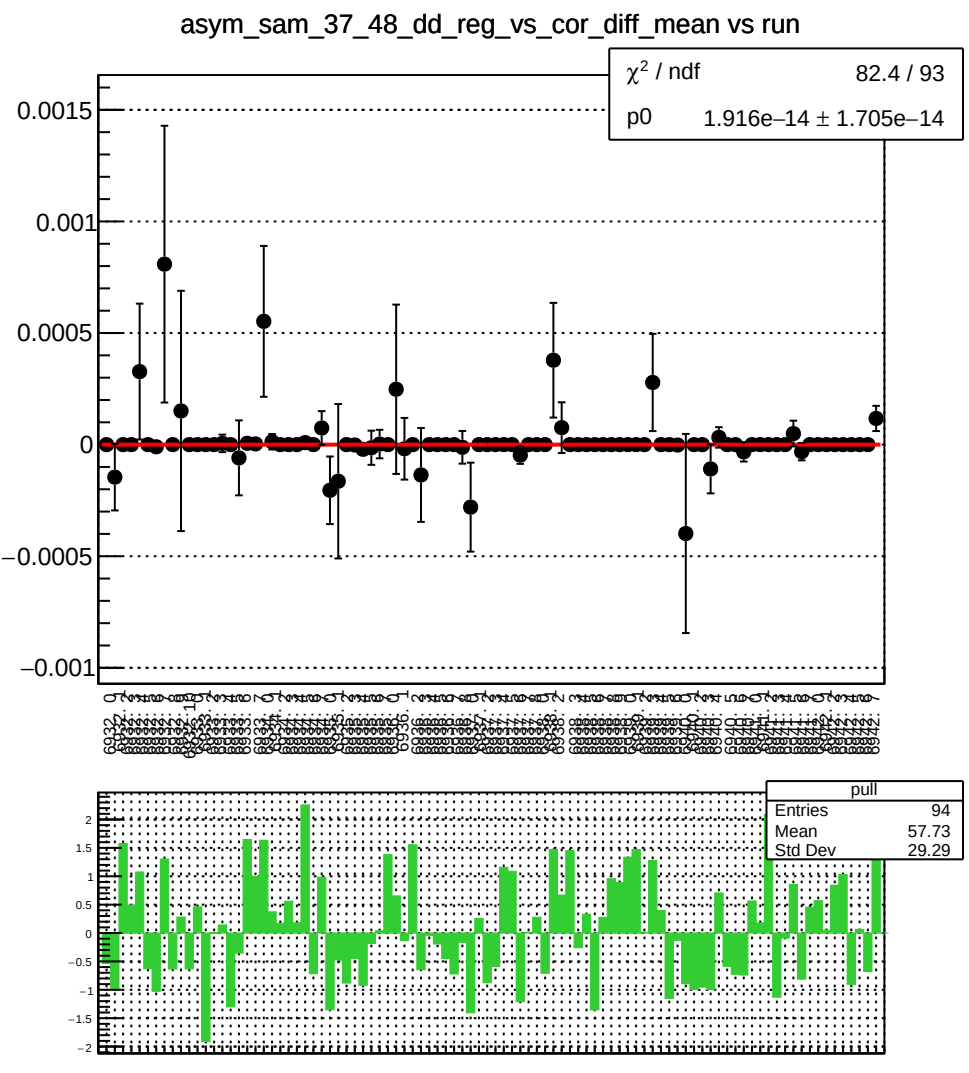

pull1D
Entries 94
Mean 0.01449
Std Dev 0.9075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

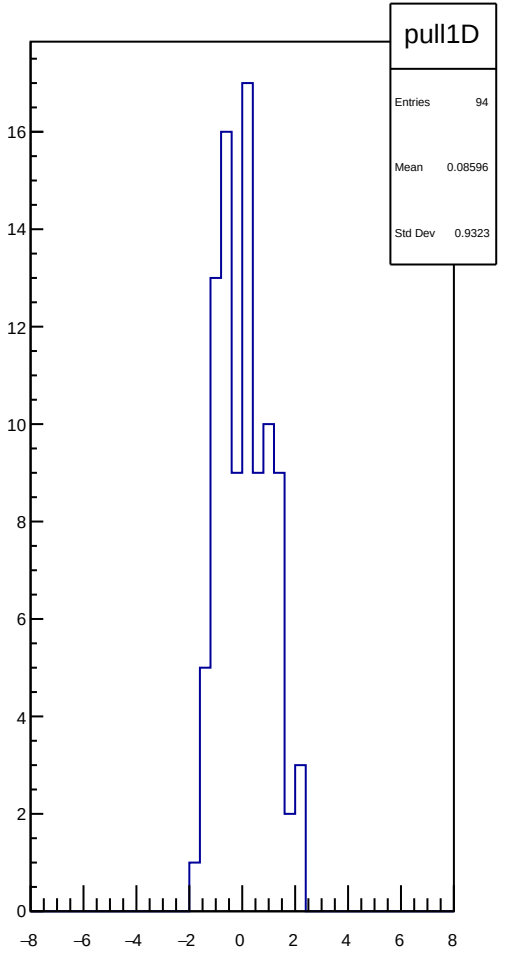

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3007 / 93
p0 399.7 ± 0.3012
460
440
420
400
380
360

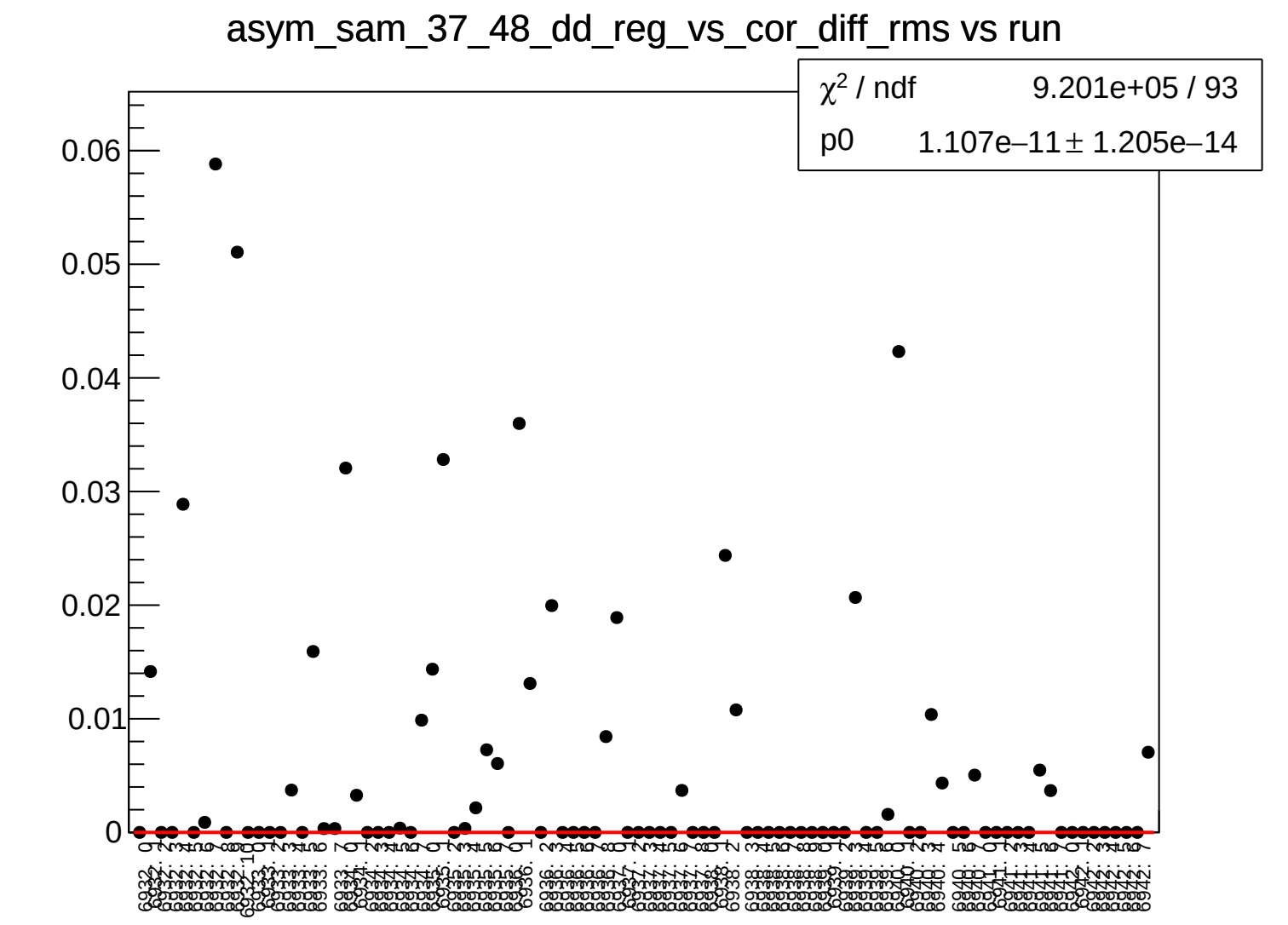

asym_sam_37_48_dd_mean vs run
χ² / ndf 82.25 / 93
p0 522.3 ± 414.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 308.1
Std Dev 0
2
1
0
−1
−2

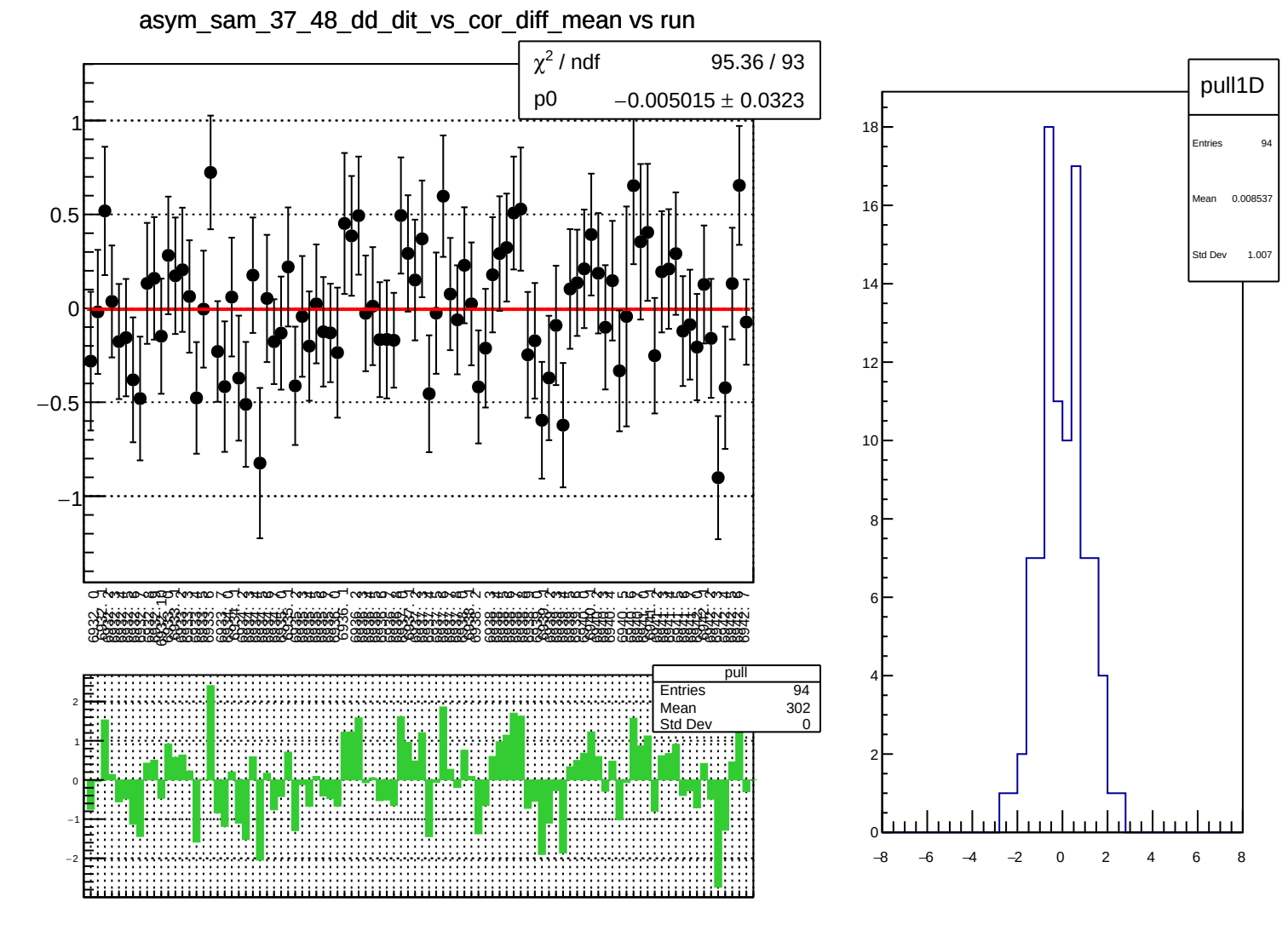

pull1D
Entries 94
Mean −0.01524
Std Dev 0.9353
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

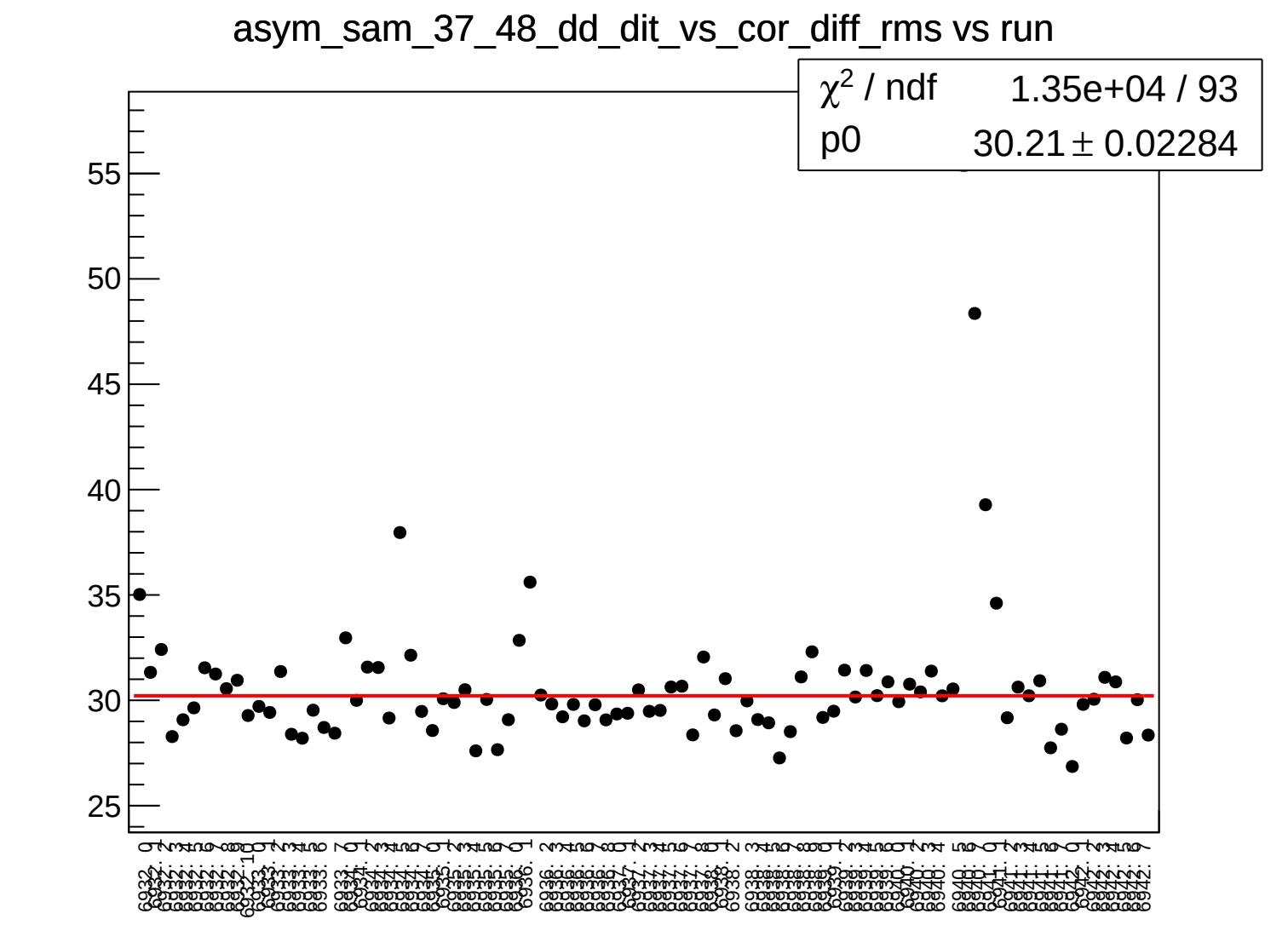

asym_sam_37_48_dd_rms vs run
χ² / ndf 3406 / 93
p0 389.1 ± 0.2932
440
420
400
380
360

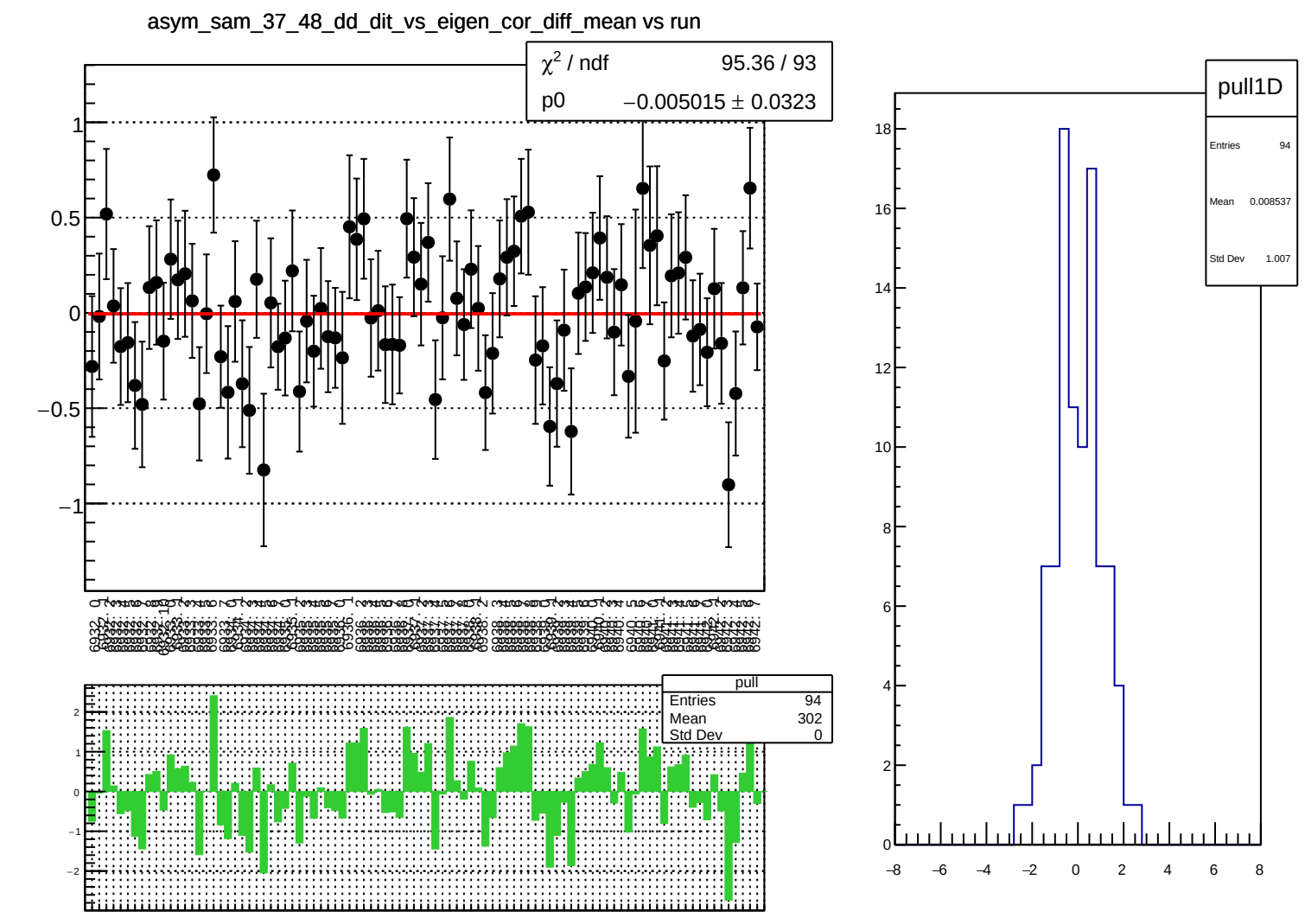

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.4 / 93
p0 1.916e−14 ± 1.705e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 57.73
Std Dev 29.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

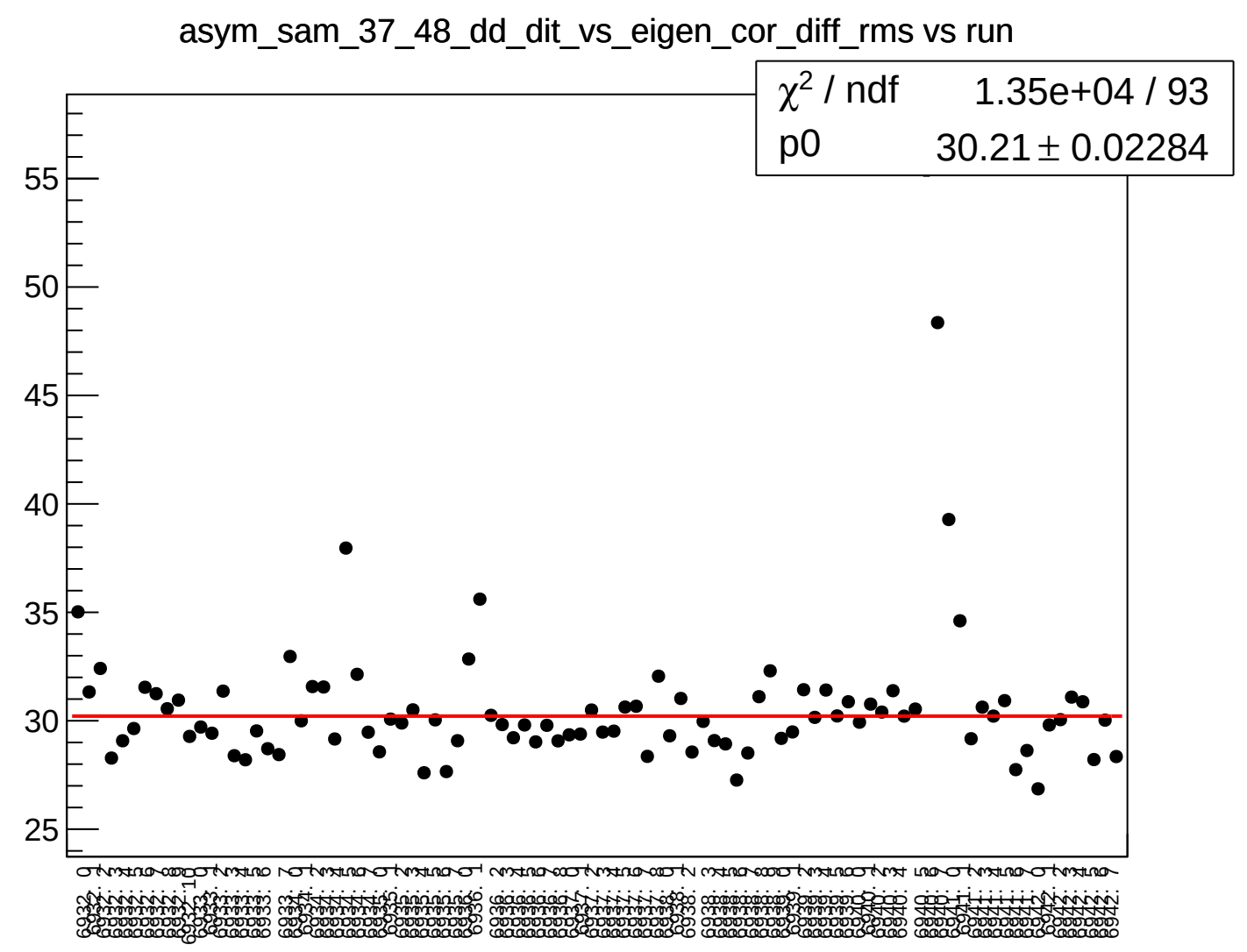

pull1D
Entries 94
Mean 0.08596
Std Dev 0.9323
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

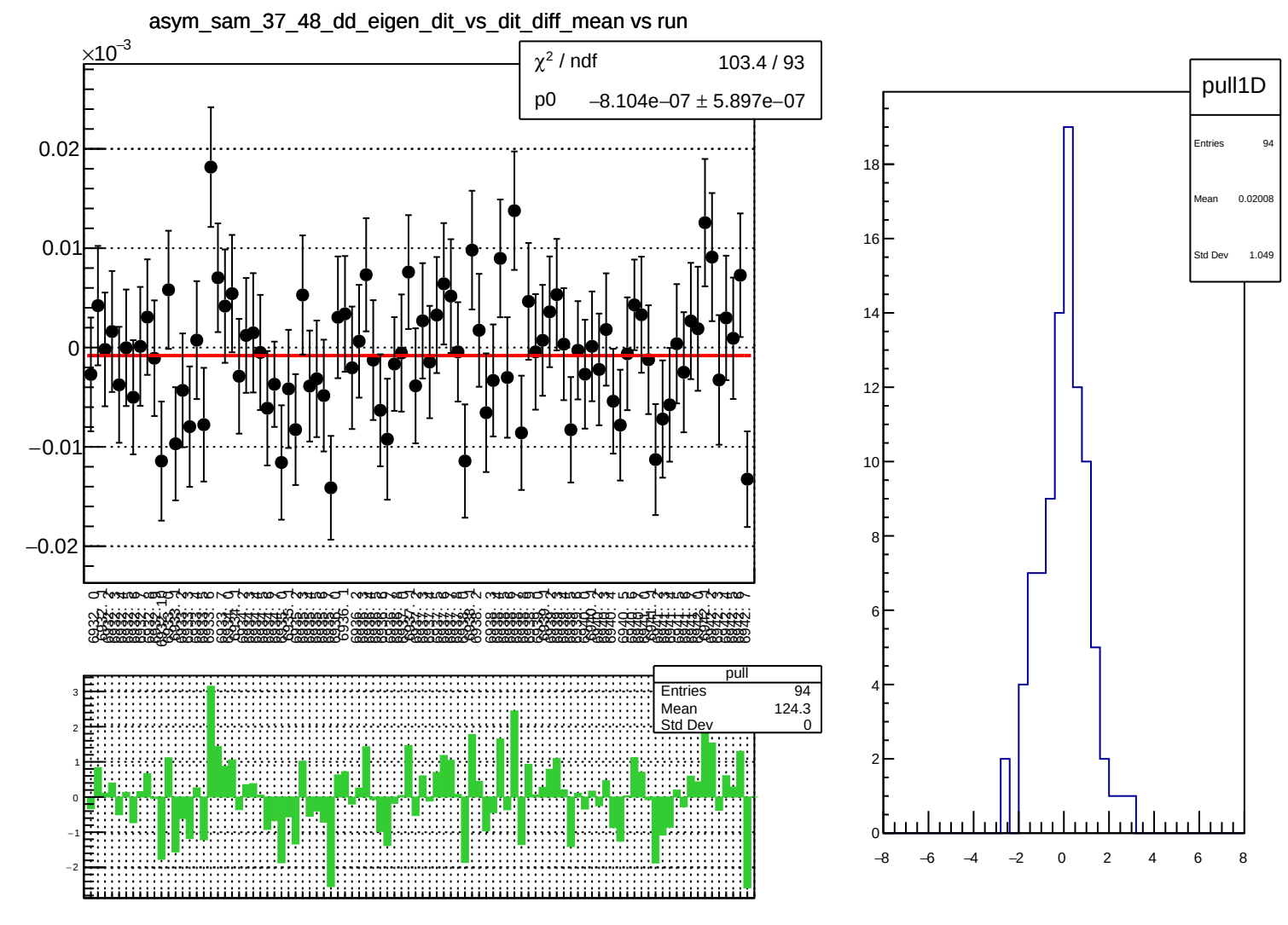

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.201e+05 / 93
p0 1.107e−11 ± 1.205e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

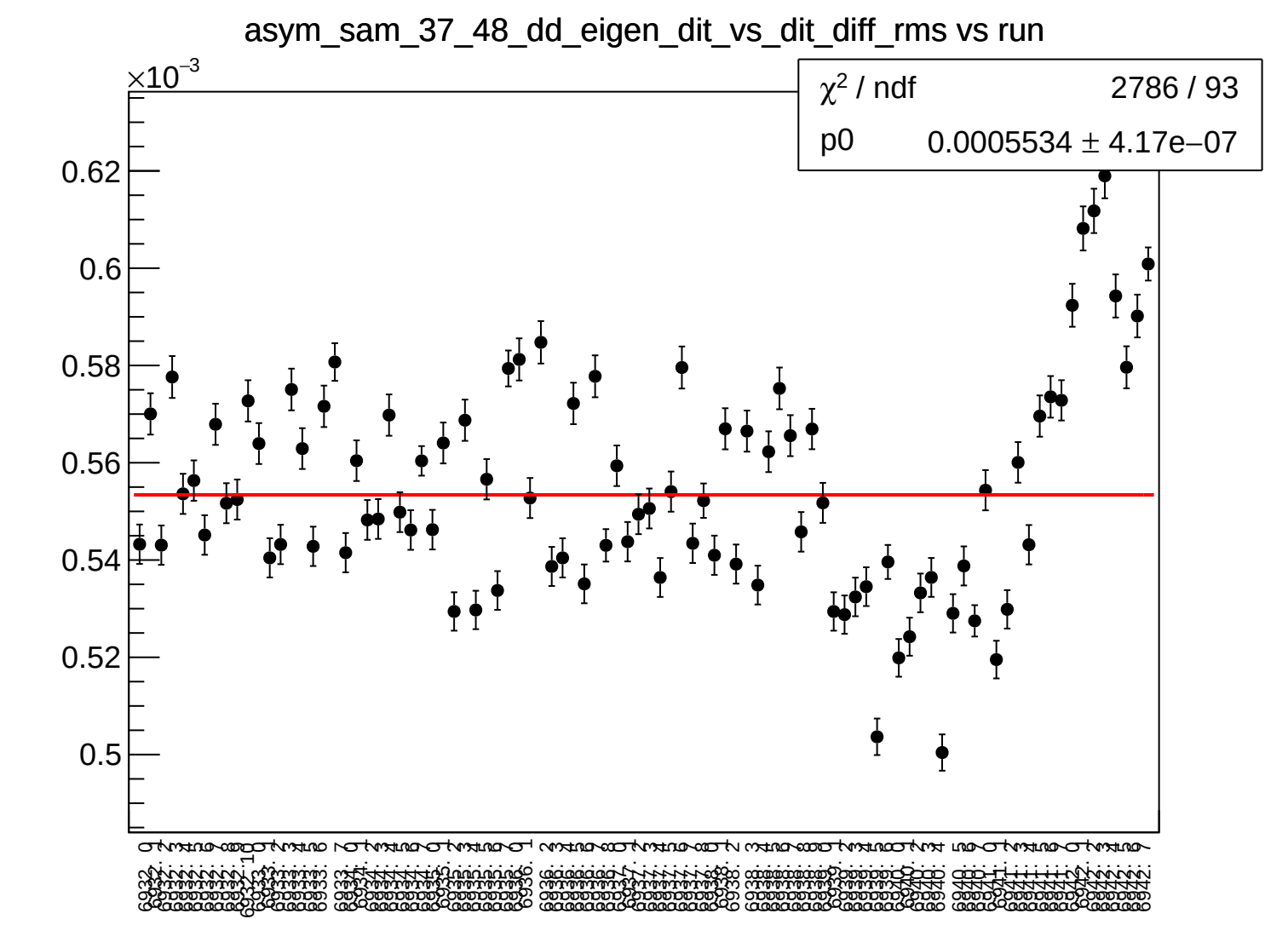

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.36 / 93
p0 −0.005015 ± 0.0323
pull
Entries 94
Mean 302
Std Dev 0
pull1D
Entries 94
Mean 0.008537
Std Dev 1.007

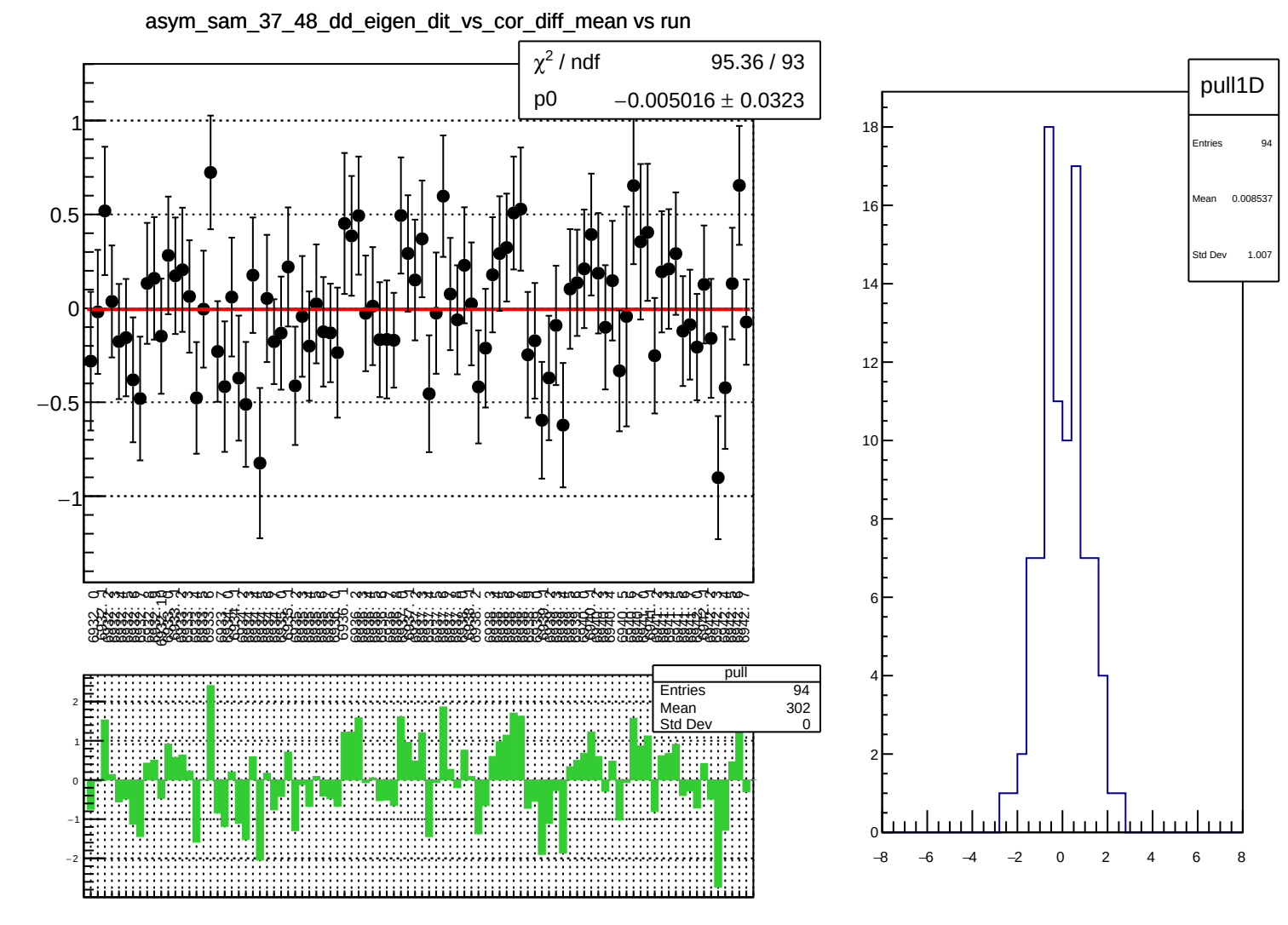

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 93
p0 30.21 ± 0.02284
55
50
45
40
35
30
25

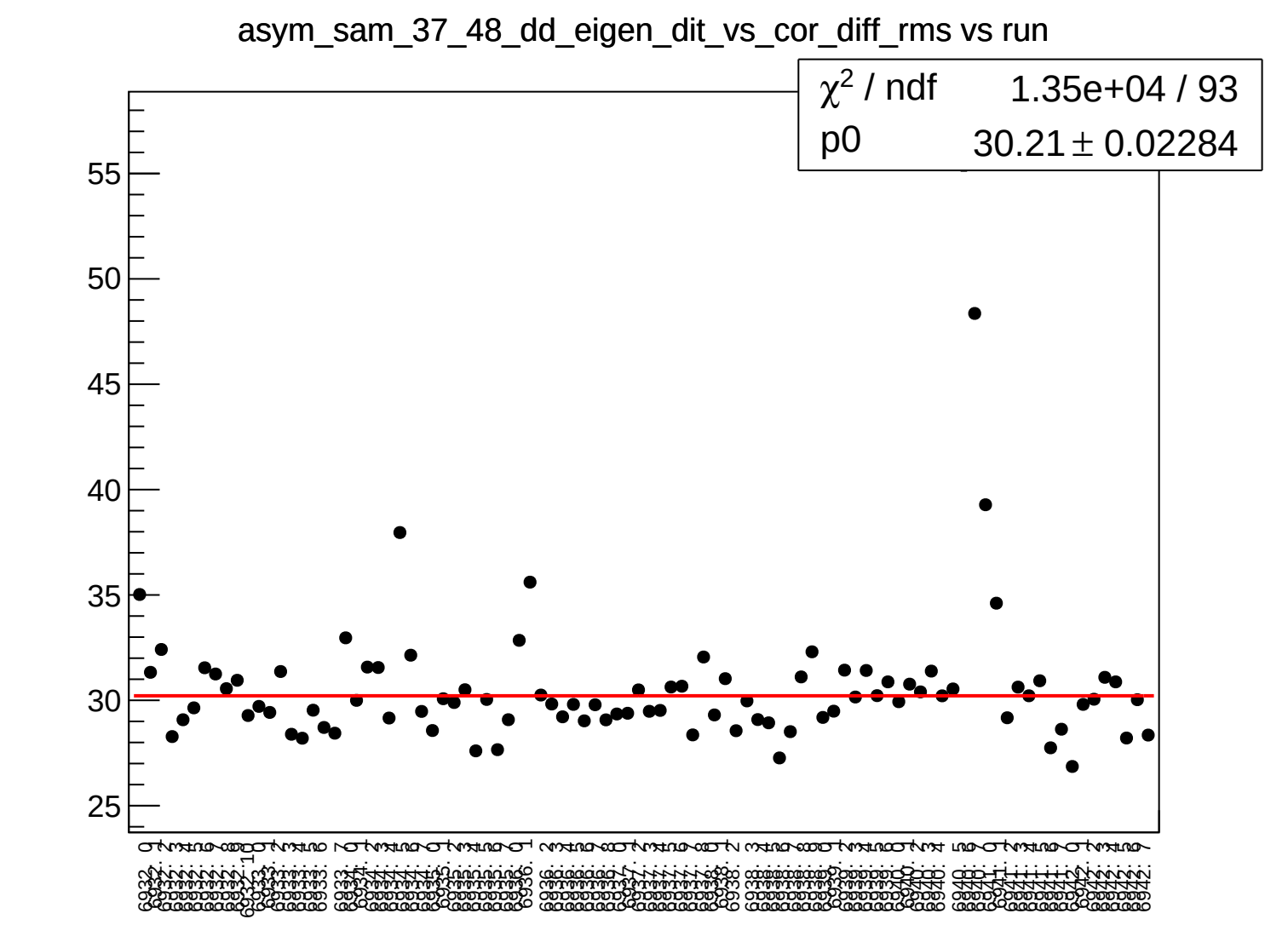

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.36 / 93
p0 −0.005015 ± 0.0323
pull
Entries 94
Mean 302
Std Dev 0
pull1D
Entries 94
Mean 0.008537
Std Dev 1.007

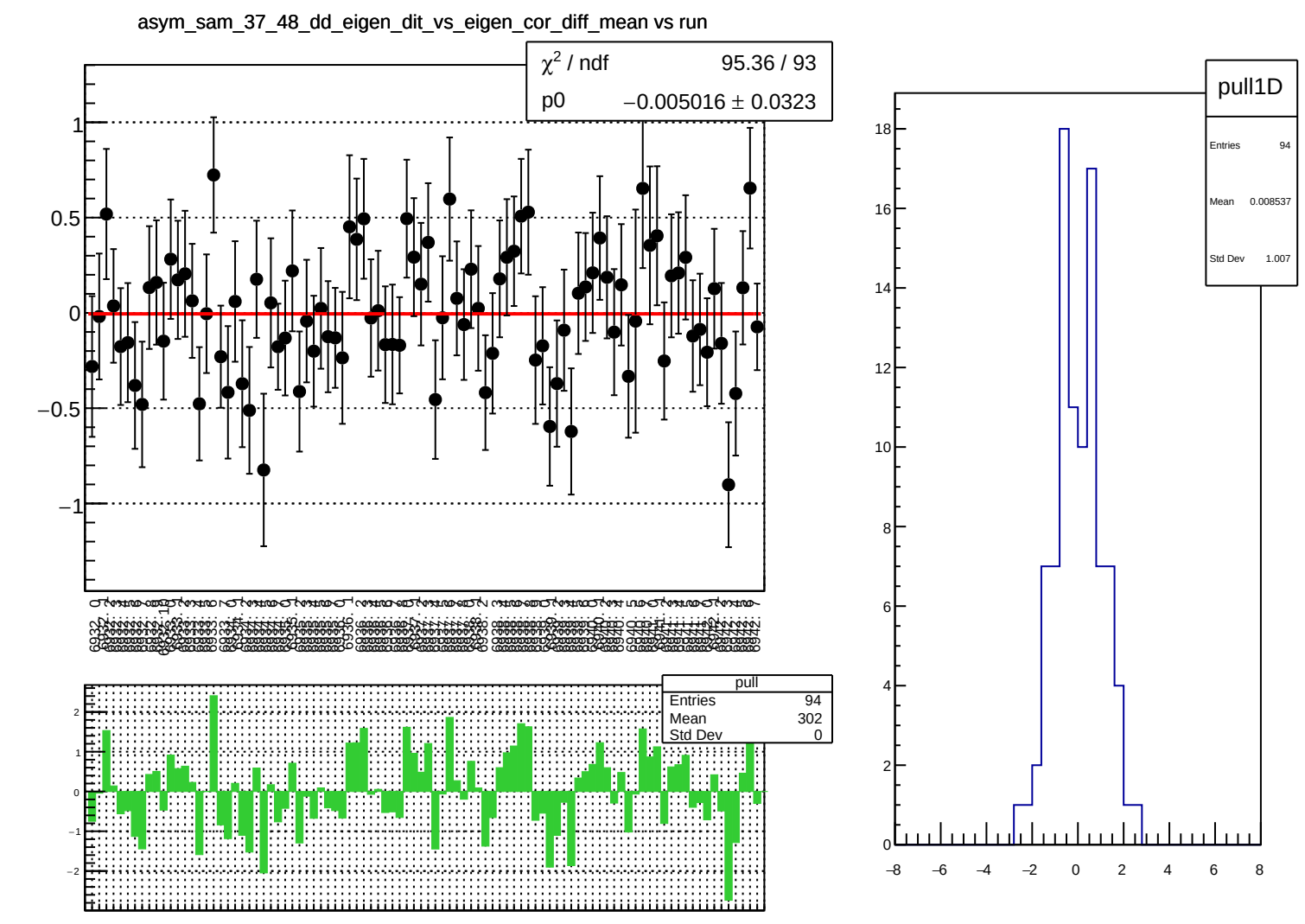

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 93
p0 30.21 ± 0.02284
55
50
45
40
35
30
25

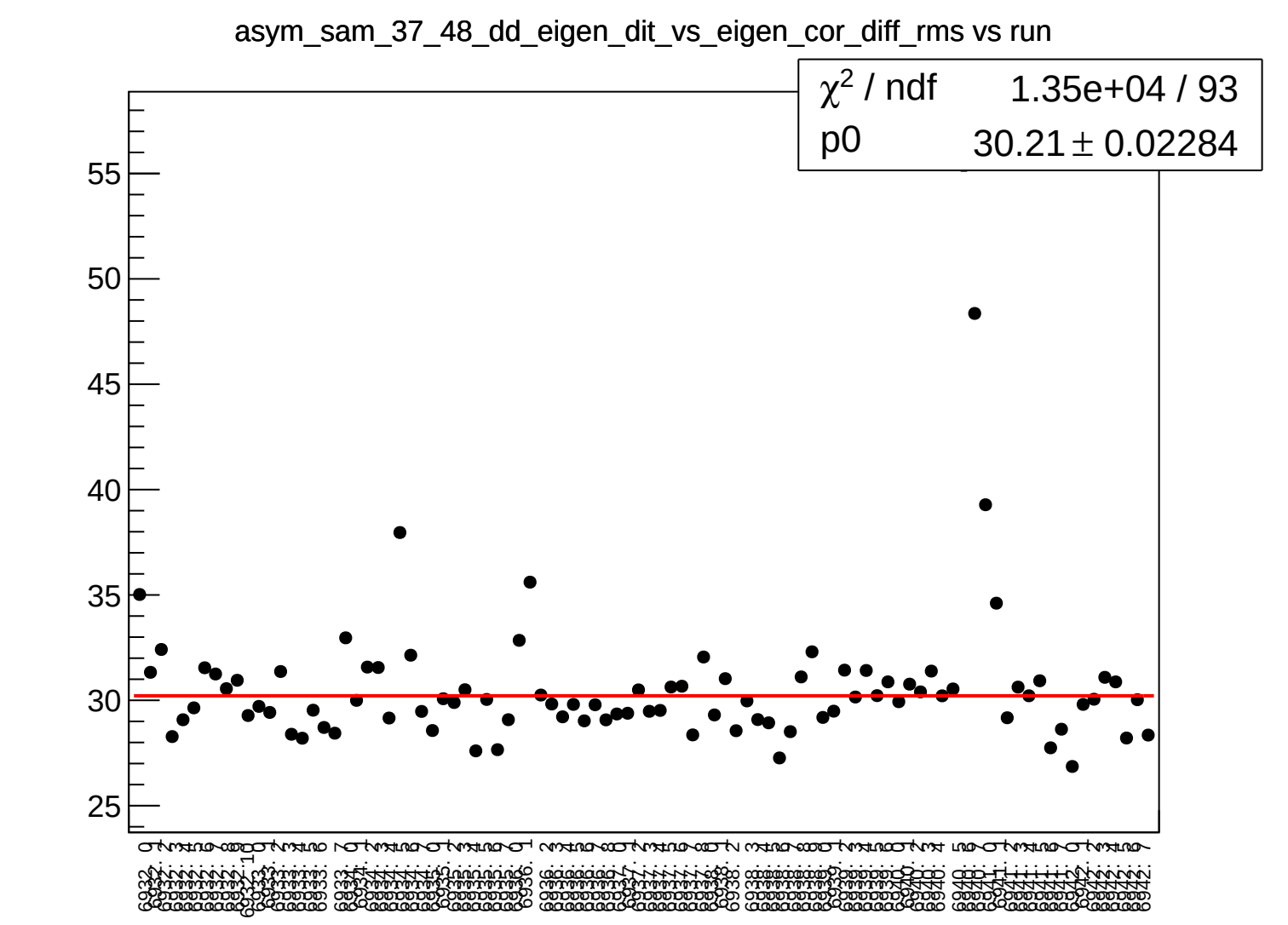

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.4 / 93
p0 −8.104e−07 ± 5.897e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 124.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.02008
Std Dev 1.049
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

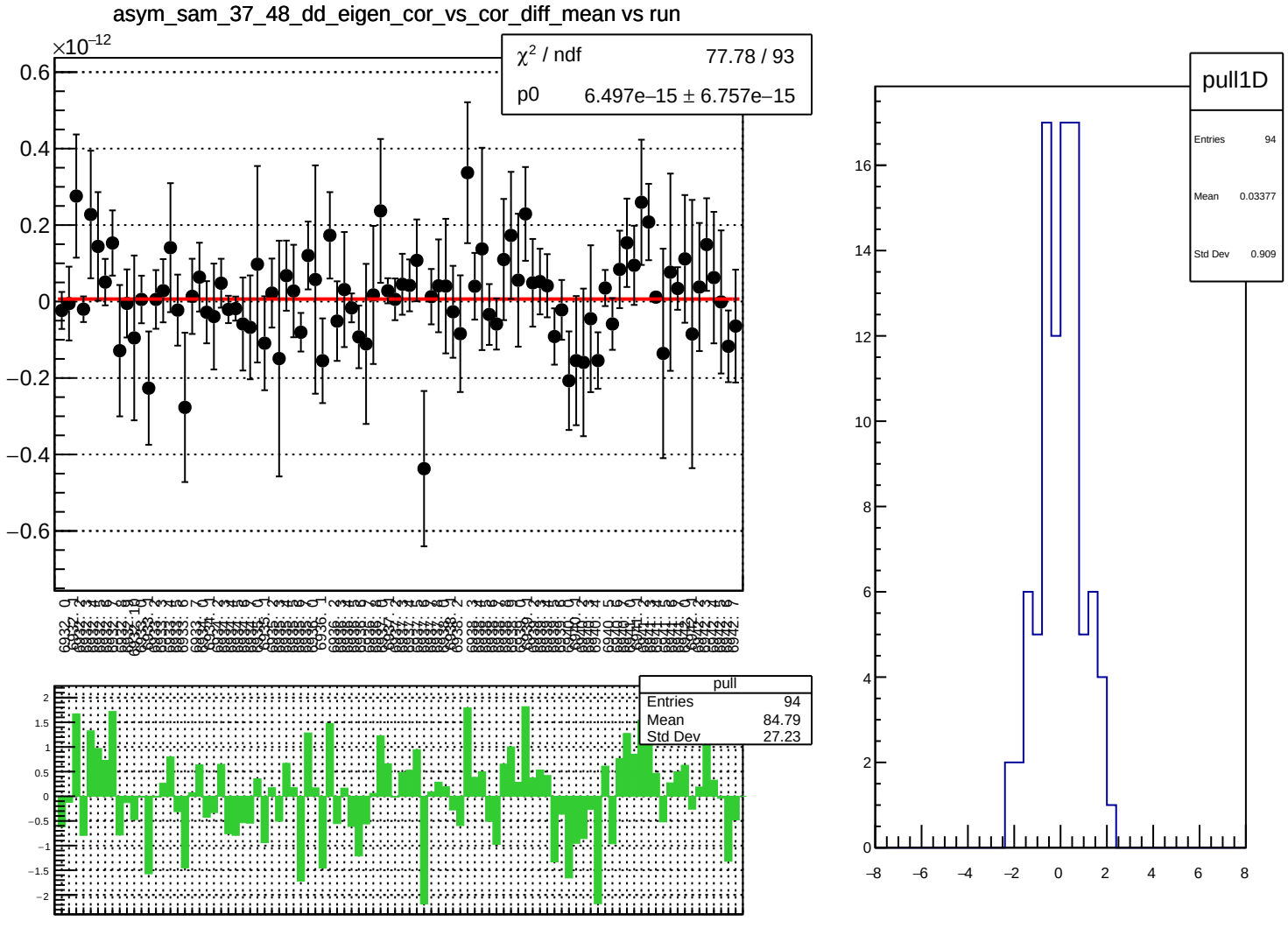

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 2786 / 93
p0 0.0005534 ± 4.17e−07
0.62
0.6
0.58
0.56
0.54
0.52
0.5

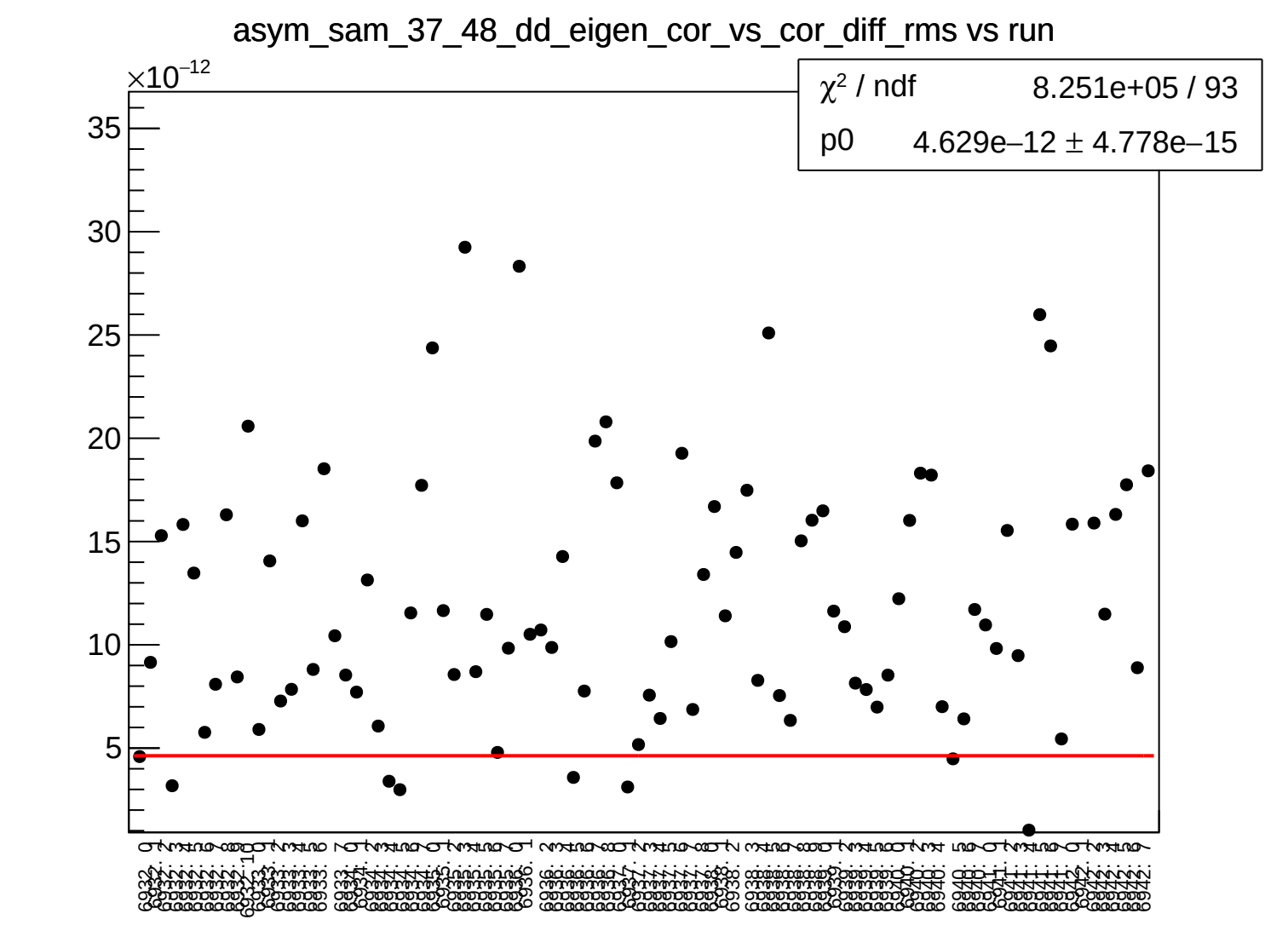

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.36 / 93
p0 −0.005016 ± 0.0323
pull
Entries 94
Mean 302
Std Dev 0
pull1D
Entries 94
Mean 0.008537
Std Dev 1.007

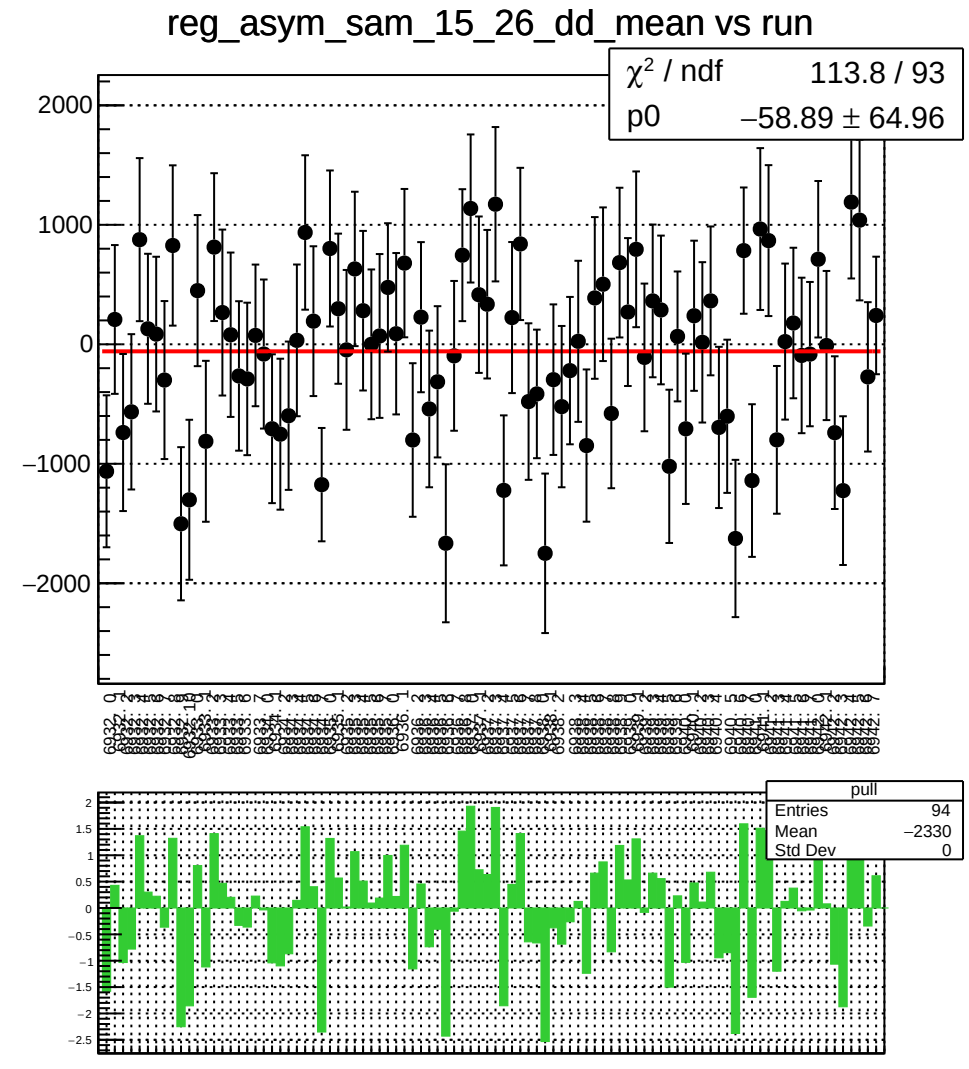

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 93
p0 30.21 ± 0.02284
55
50
45
40
35
30
25

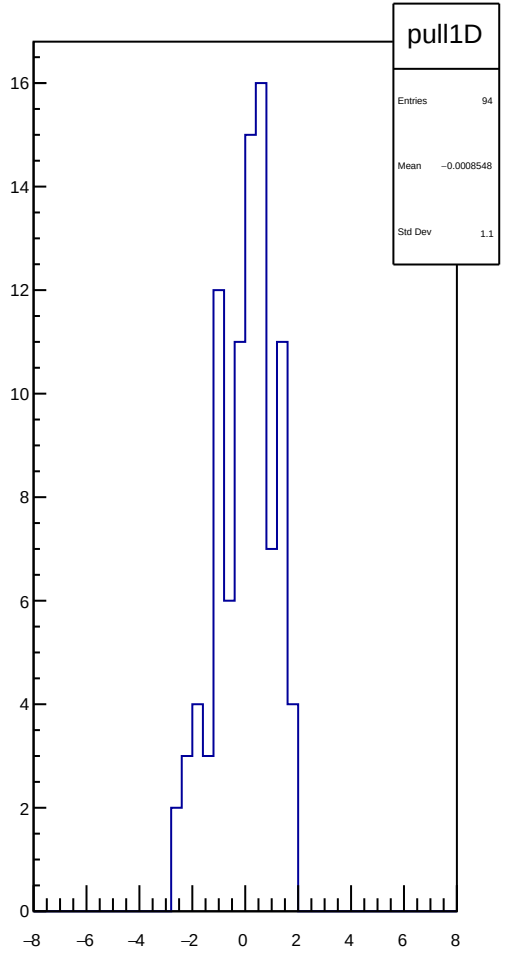

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.36 / 93
p0 −0.005016 ± 0.0323
pull
Entries 94
Mean 302
Std Dev 0
pull1D
Entries 94
Mean 0.008537
Std Dev 1.007

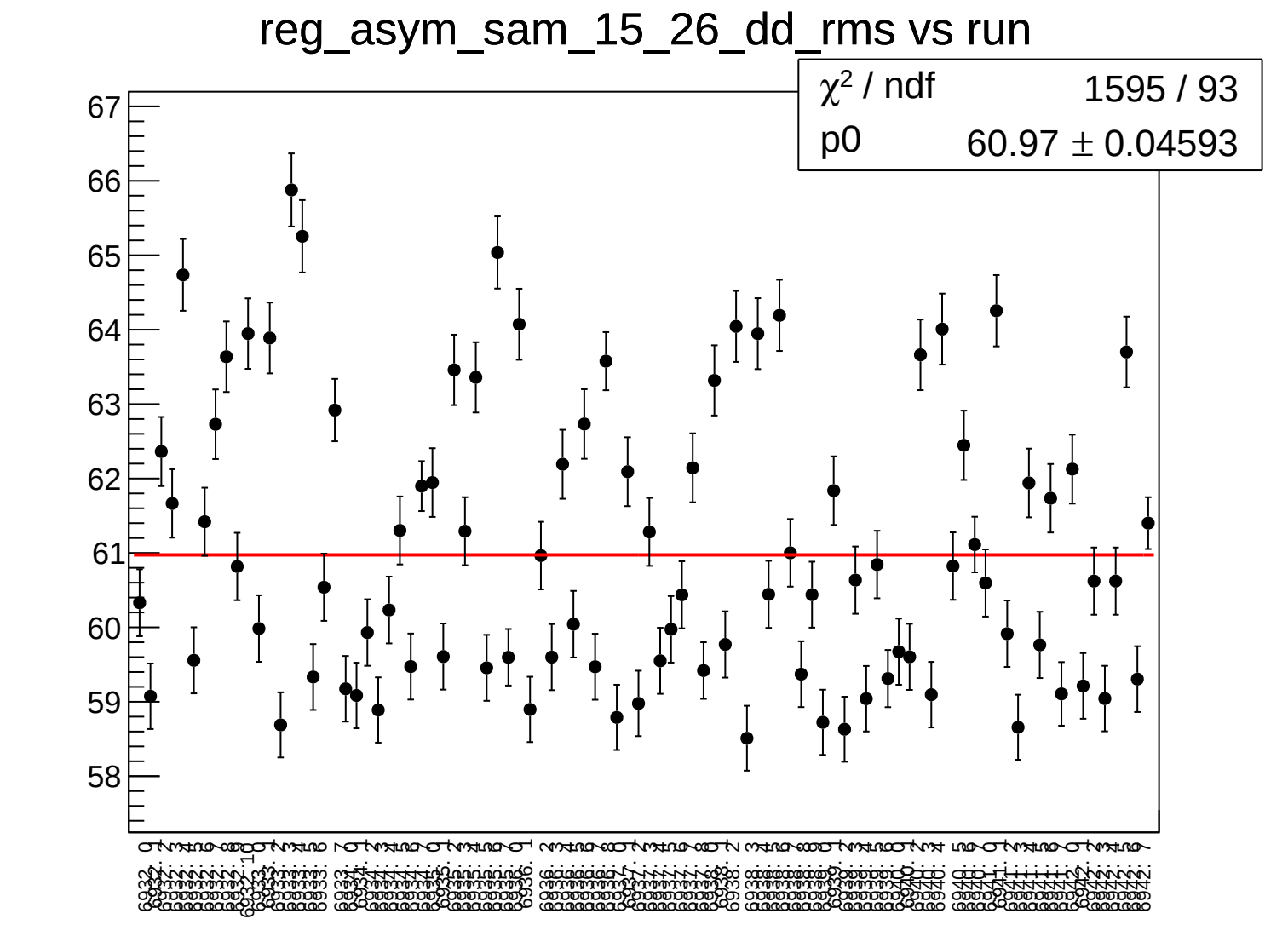

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.35e+04 / 93
p0 30.21 ± 0.02284
55
50
45
40
35
30
25

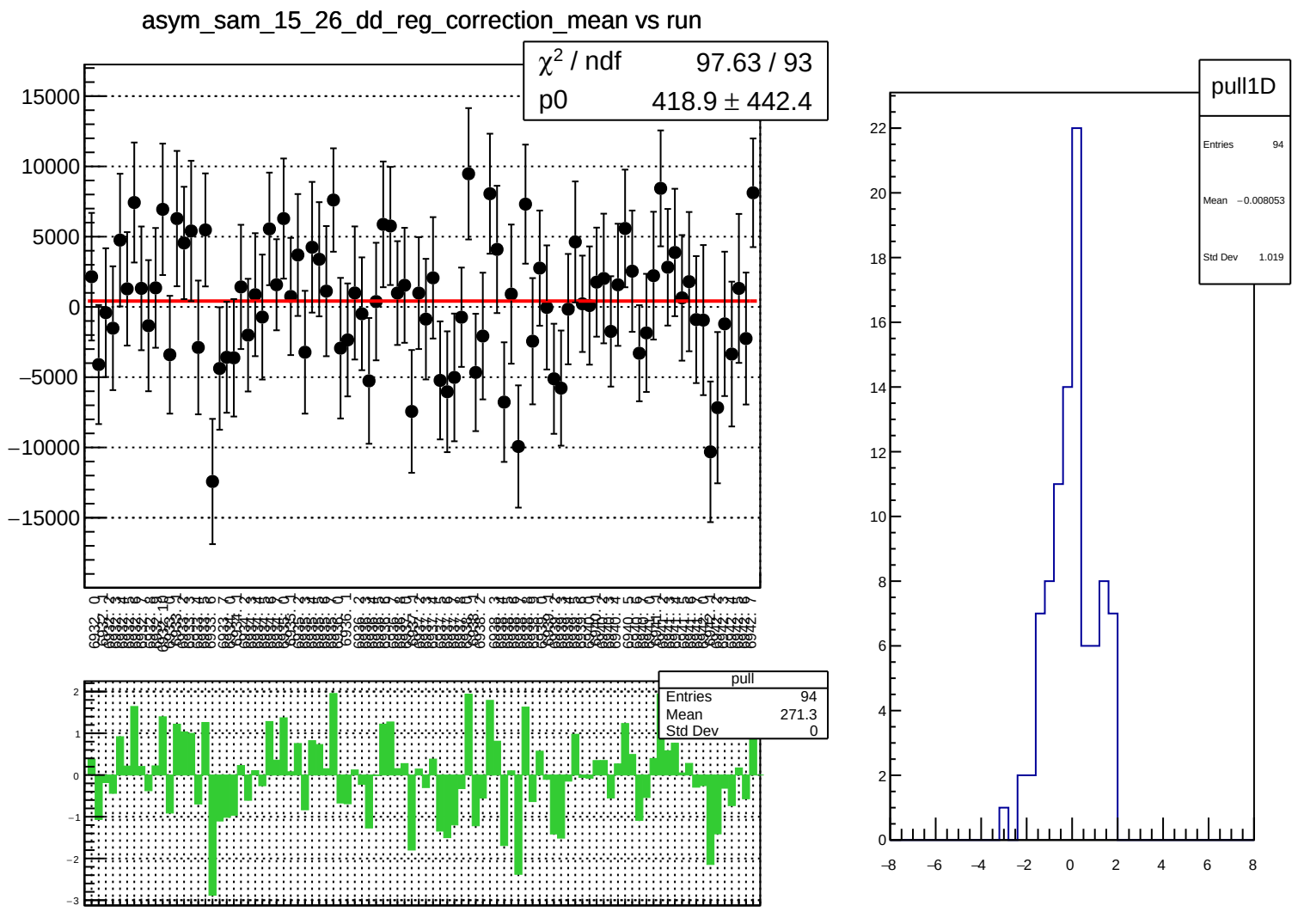

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.78 / 93
p0 6.497e−15 ± 6.757e−15
pull
Entries 94
Mean 84.79
Std Dev 27.23
pull1D
Entries 94
Mean 0.03377
Std Dev 0.909

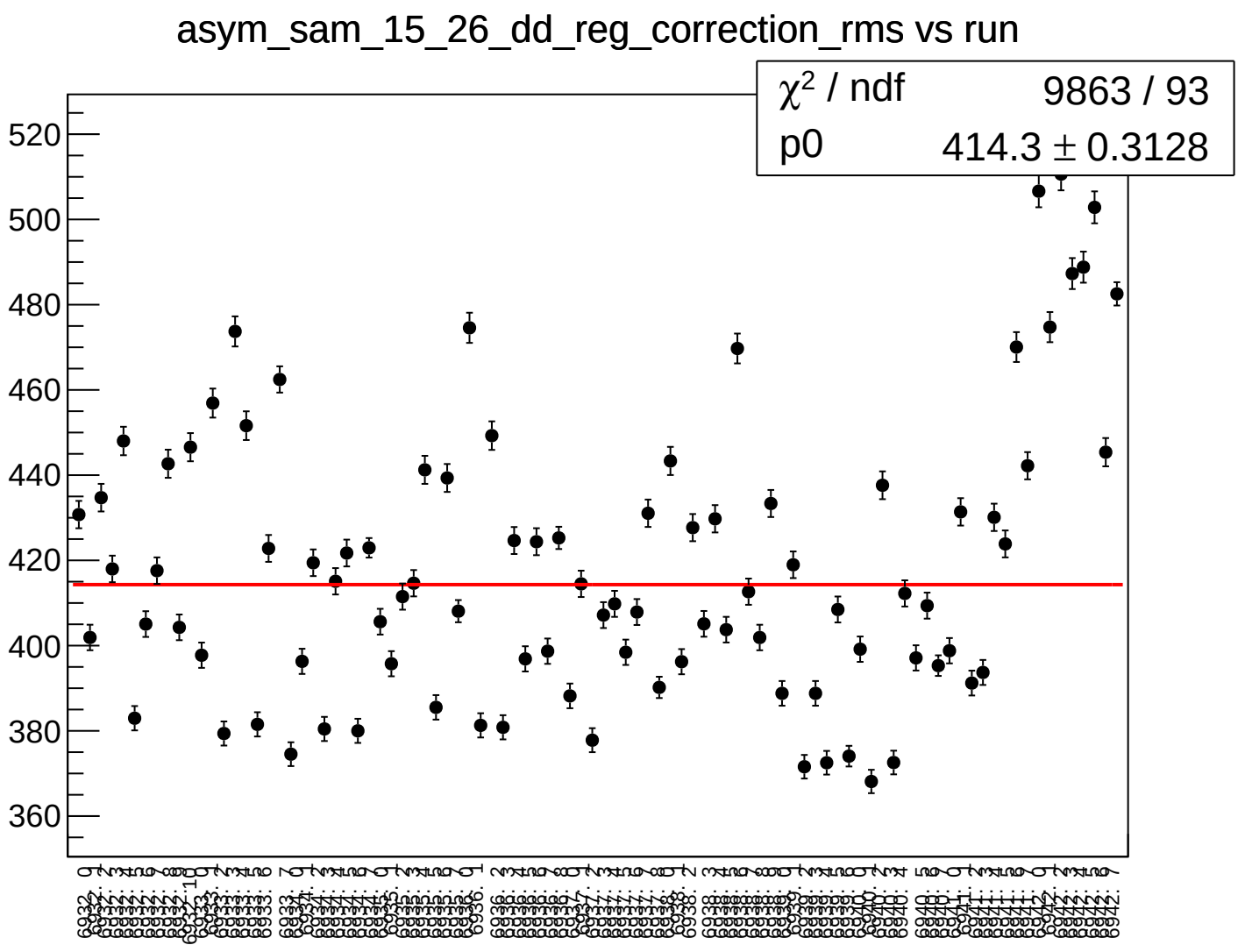

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.251e+05 / 93
p0 4.629e−12 ± 4.778e−15
35
30
25
20
15
10
5

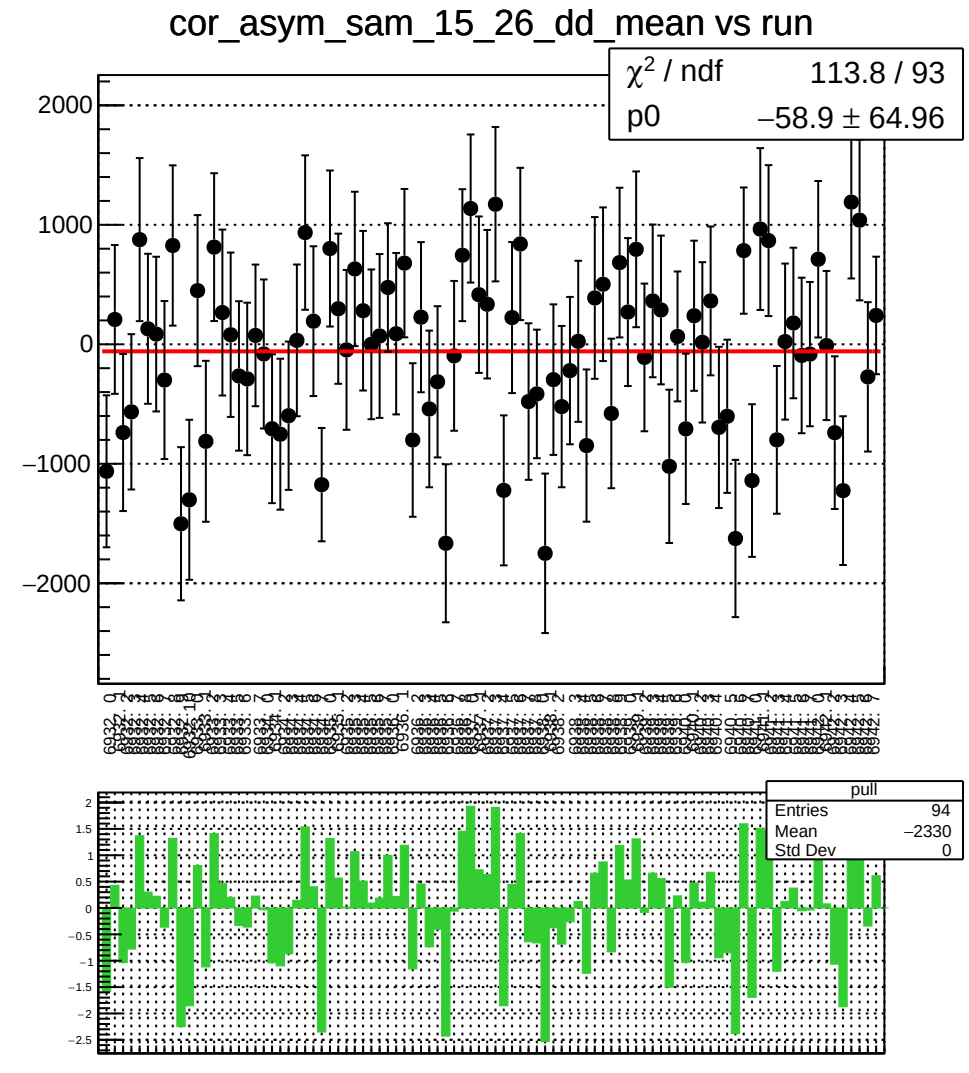

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −58.89 ± 64.96
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −2330
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

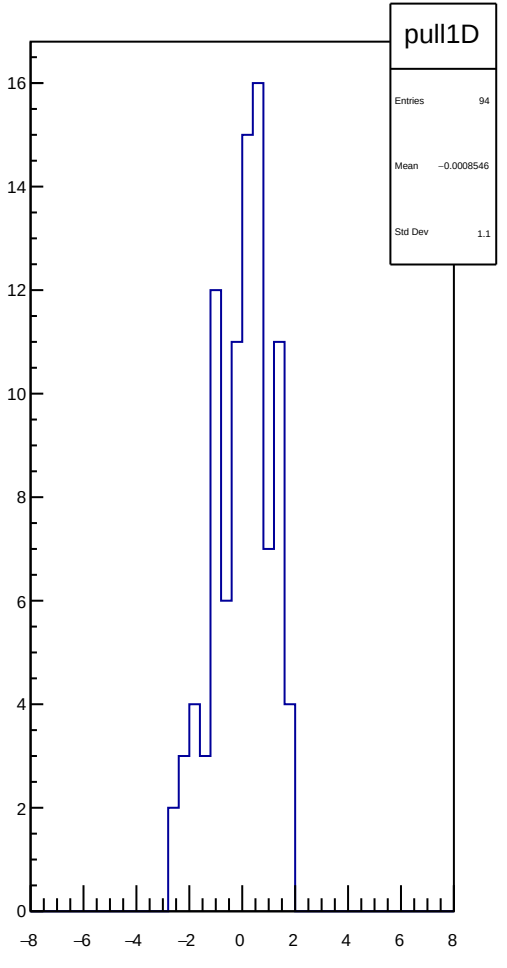

pull1D
Entries 94
Mean −0.0008548
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

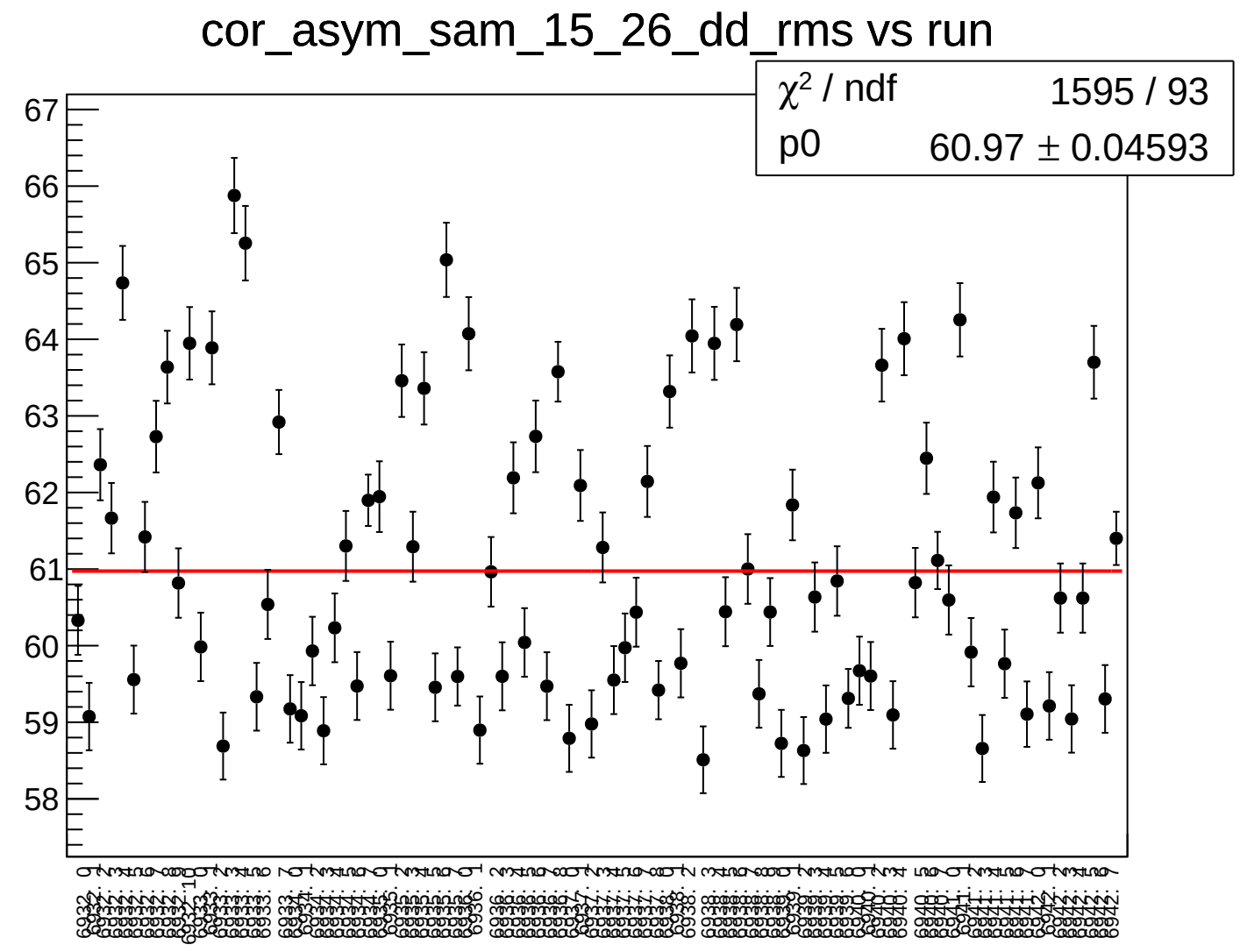

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1595 / 93
p0 60.97 ± 0.04593
67
66
65
64
63
62
61
60
59
58

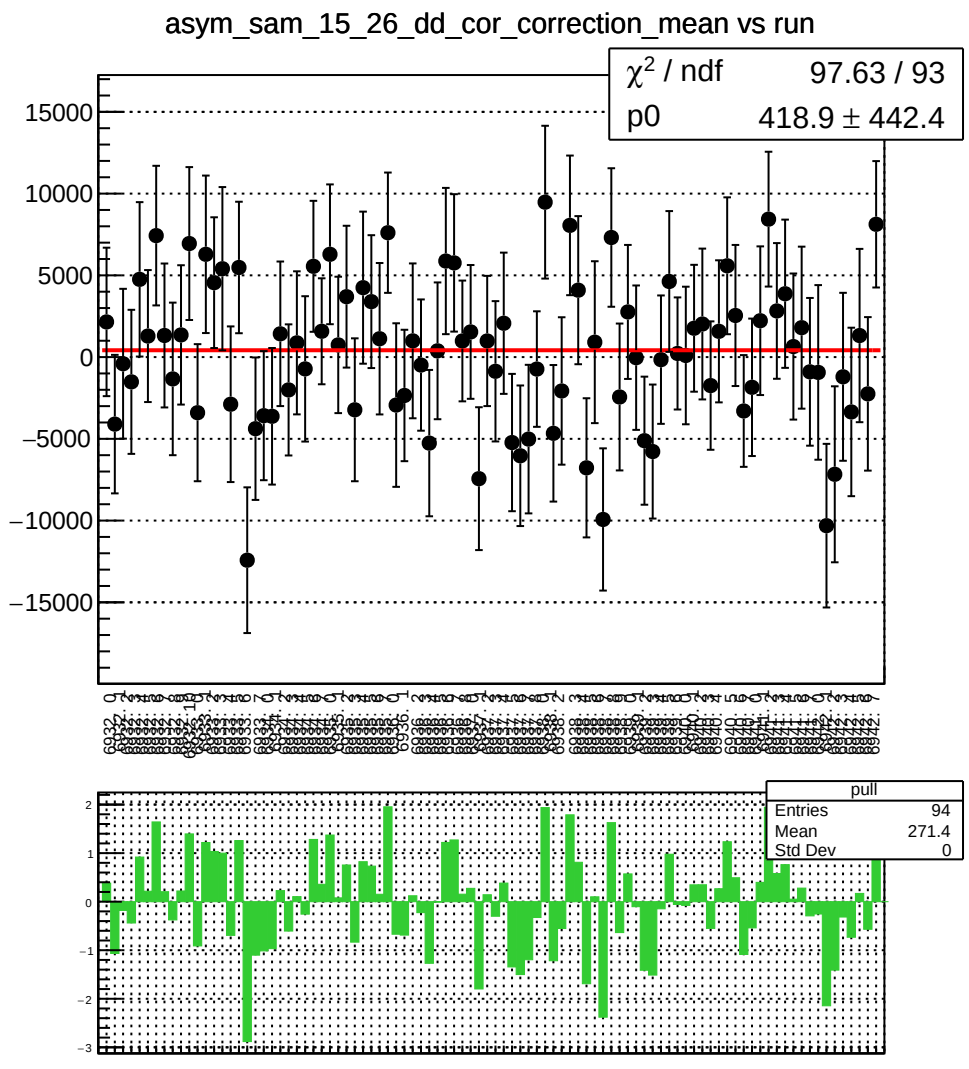

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 97.63 / 93
p0 418.9 ± 442.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 271.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.008053
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

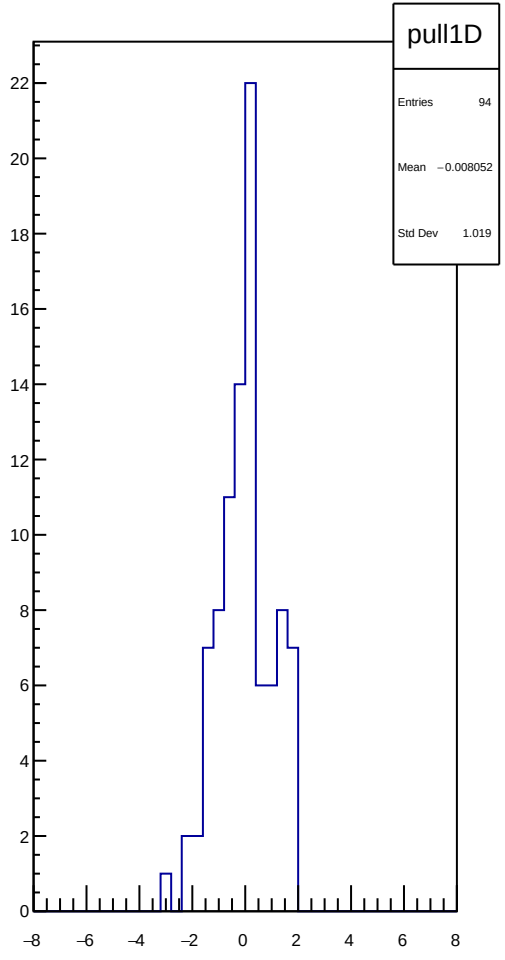

asym_sam_15_26_dd_reg_correction_rms vs run
χ^2 / ndf 9863 / 93
p0 414.3 ± 0.3128
520
500
480
460
440
420
400
380
360

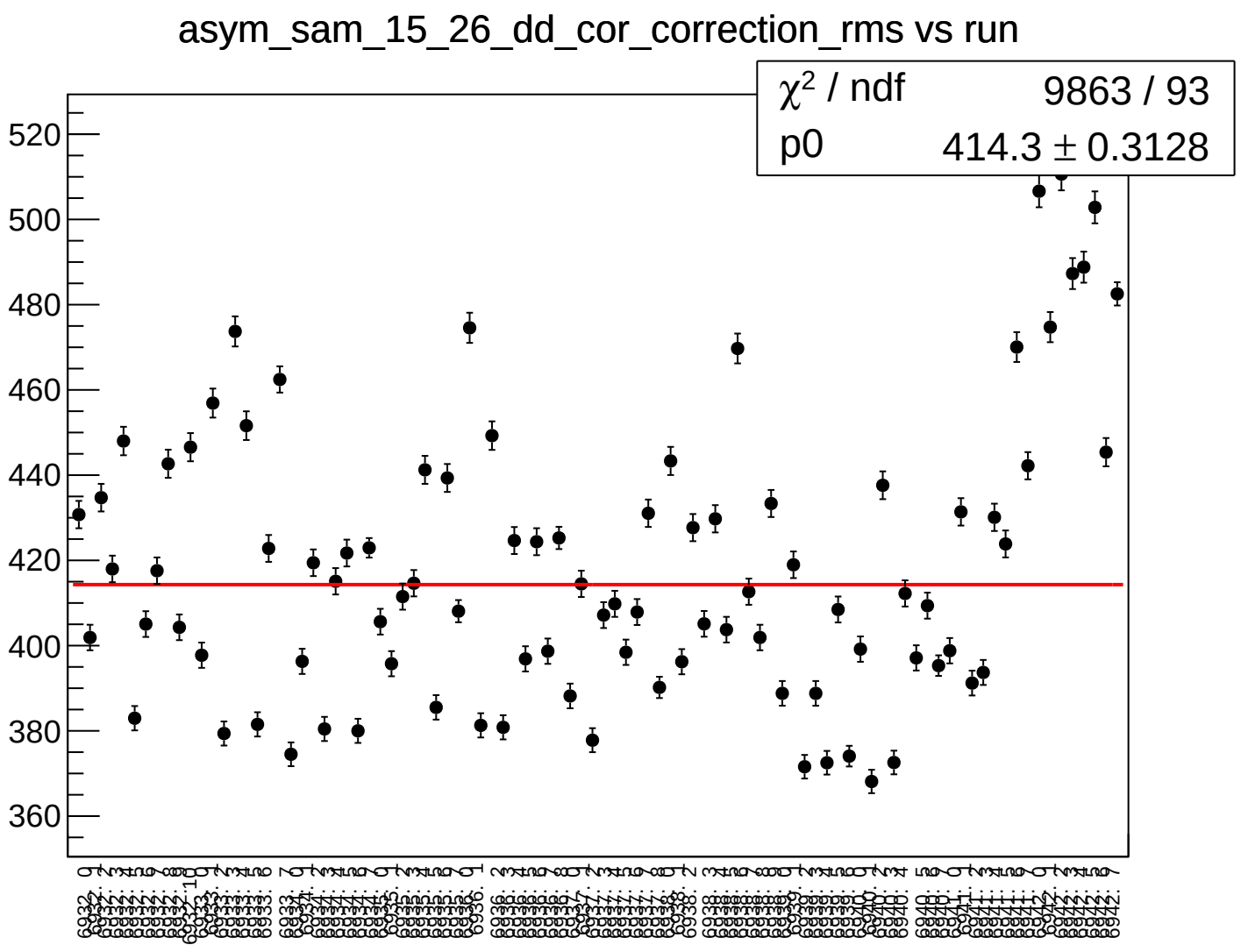

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −58.9 ± 64.96
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −2330
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

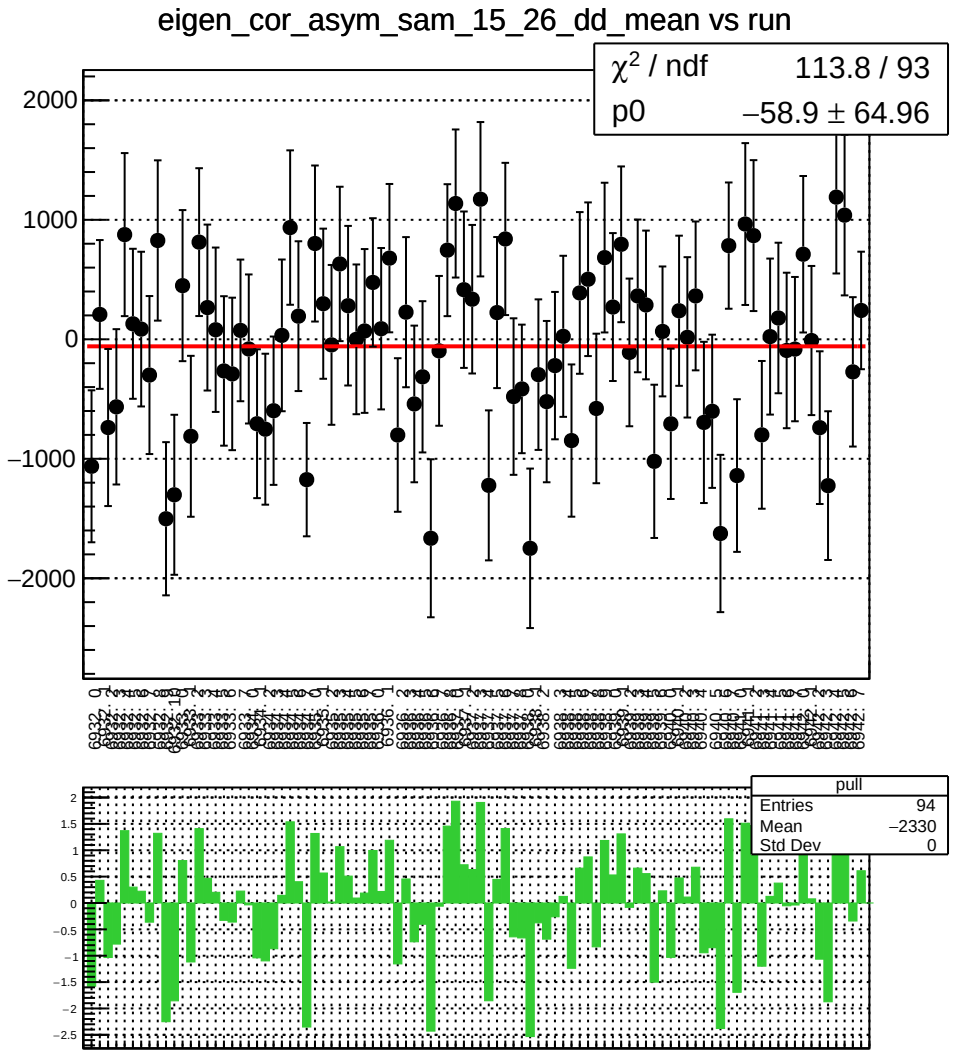

pull1D
Entries 94
Mean −0.0008546
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

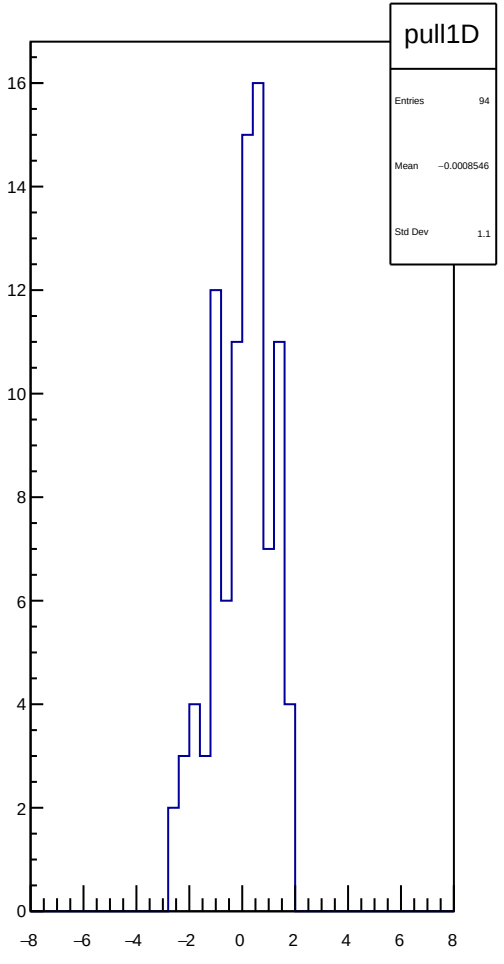

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1595 / 93
p0 60.97 ± 0.04593
67
66
65
64
63
62
61
60
59
58

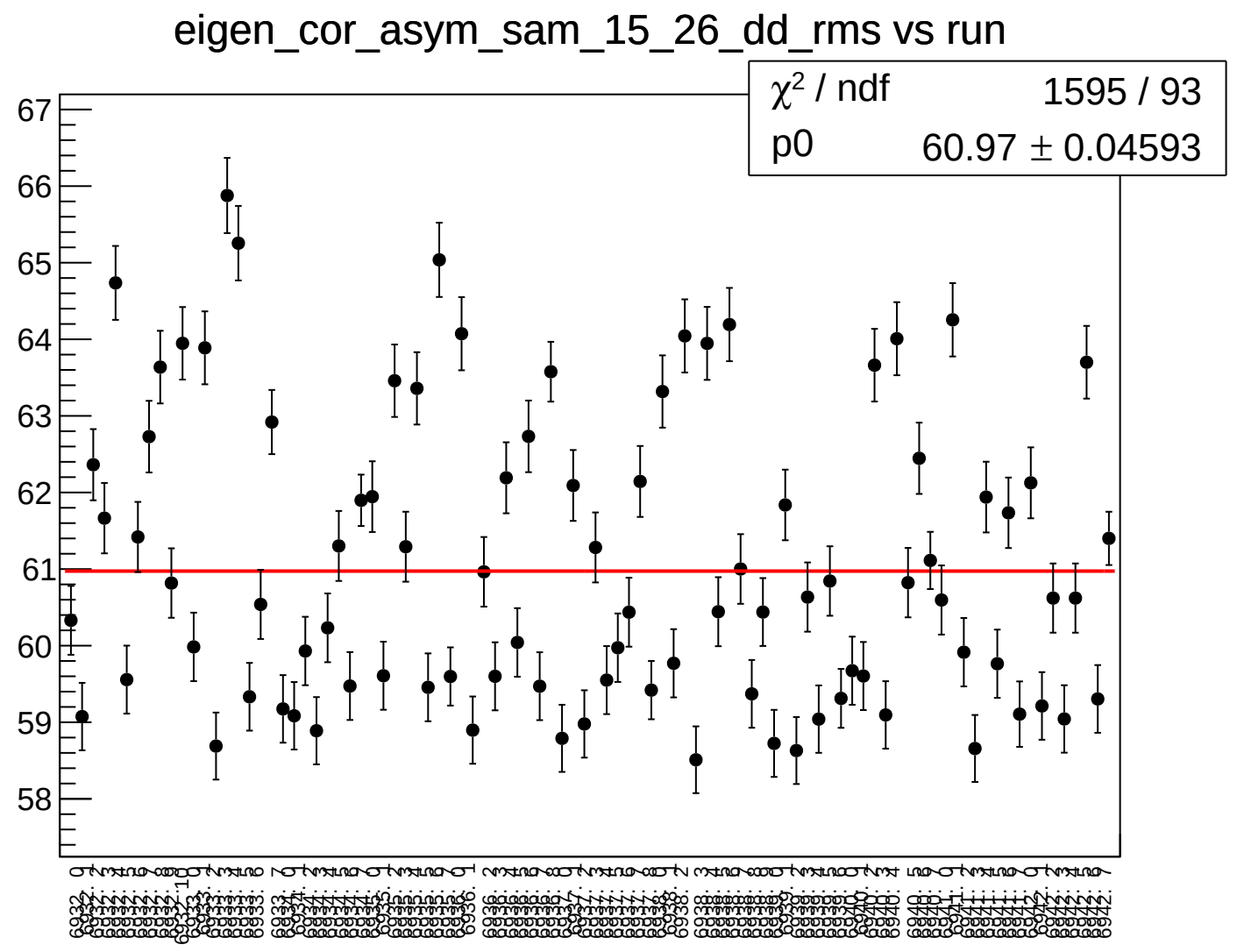

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 97.63 / 93
p0 418.9 ± 442.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 271.4
Std Dev 0
2
1
0
−1
−2
−3

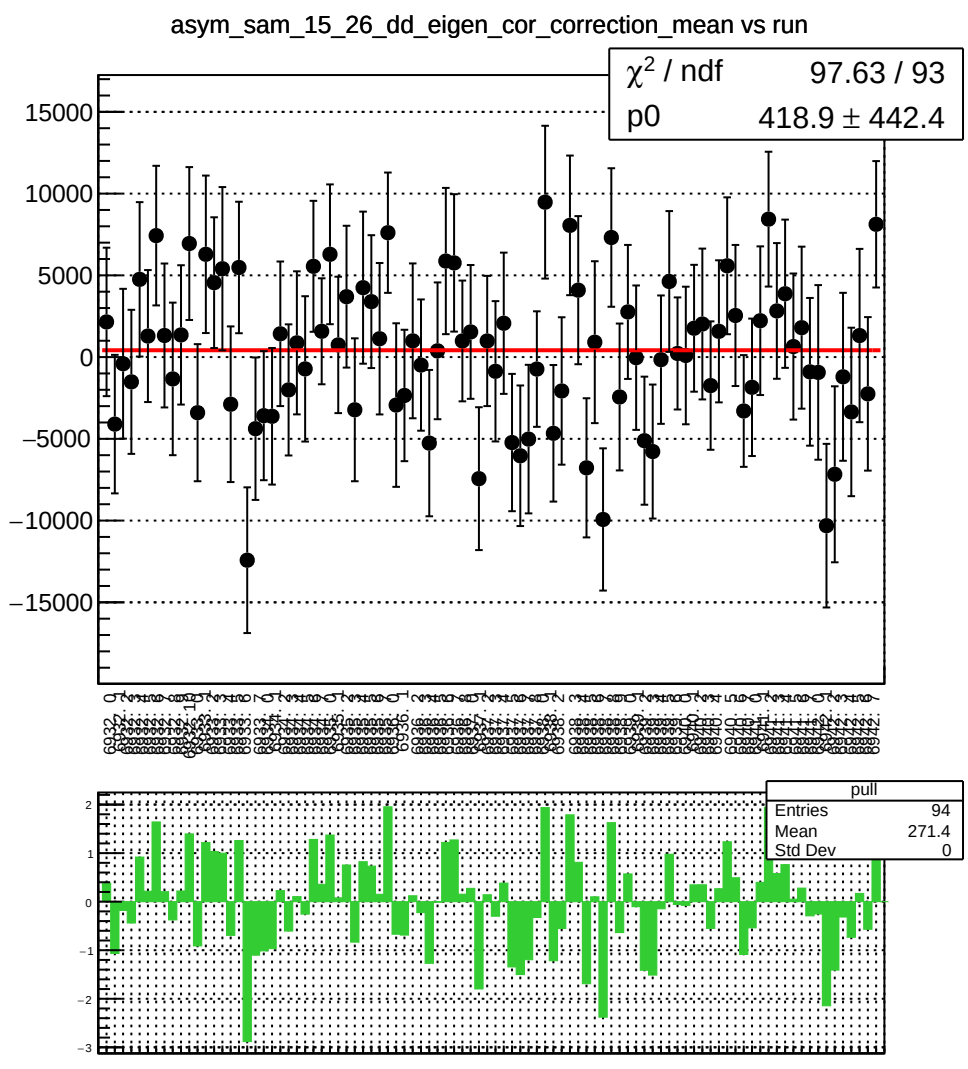

pull1D
Entries 94
Mean −0.008052
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

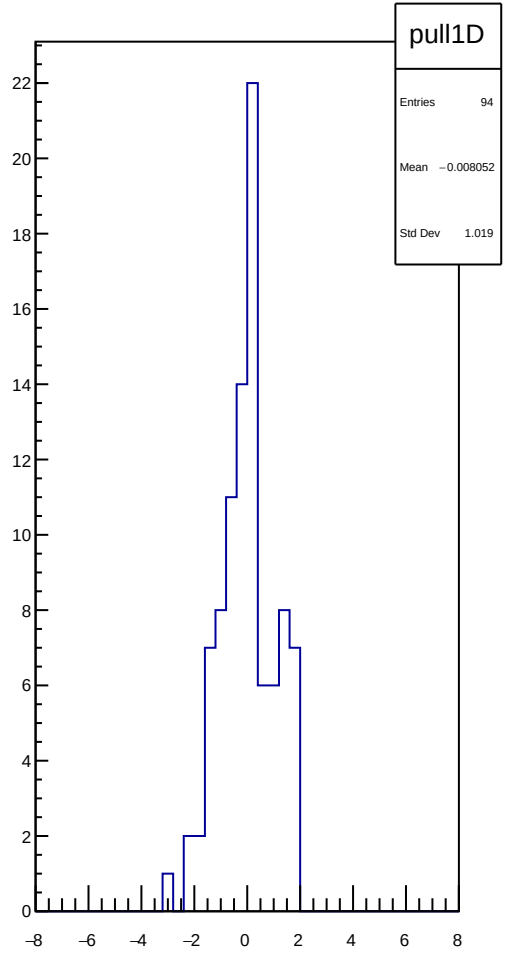

asym_sam_15_26_dd_cor_correction_rms vs run
χ^2 / ndf 9863 / 93
p0 414.3 ± 0.3128
520
500
480
460
440
420
400
380
360

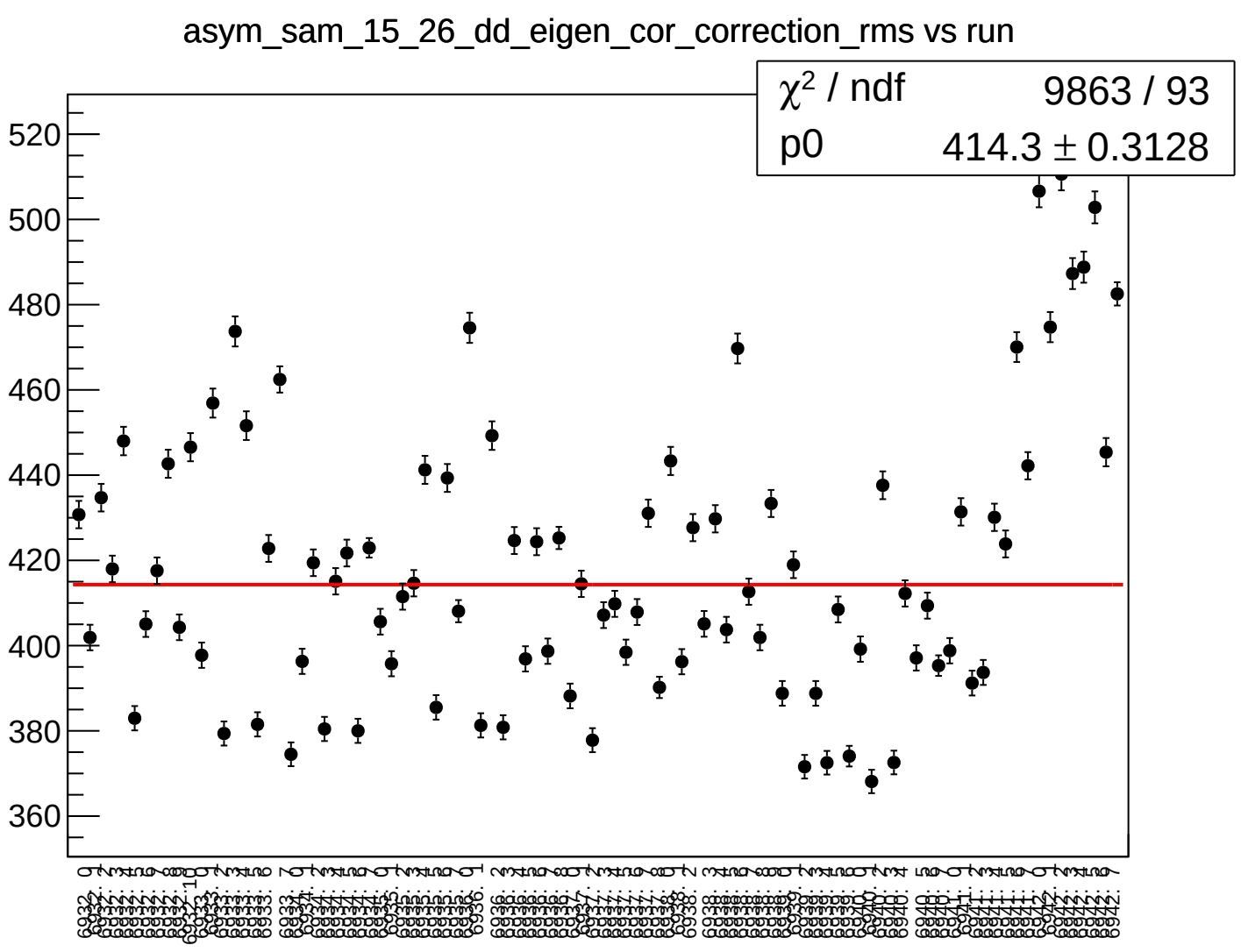

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 113.8 / 93
p0 −58.9 ± 64.96
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −2330
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

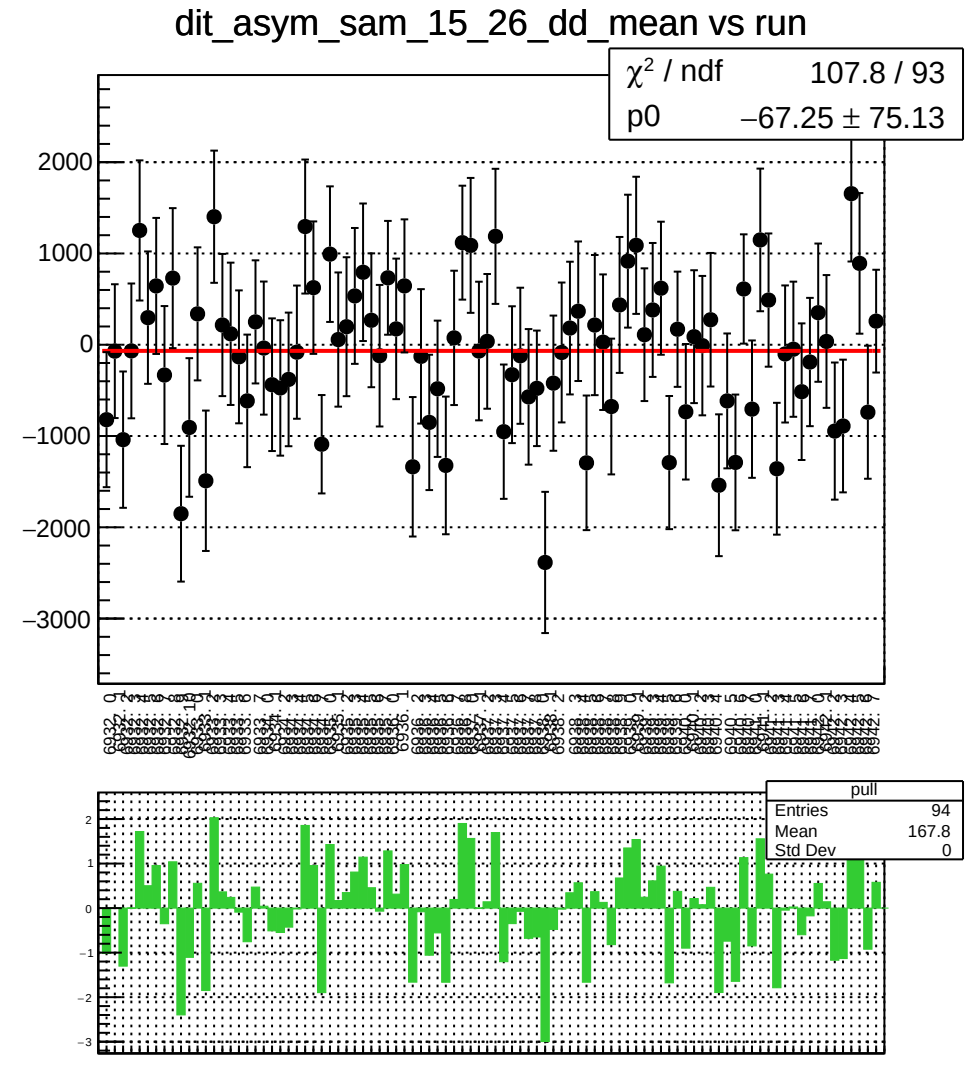

pull1D
Entries 94
Mean −0.0008546
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

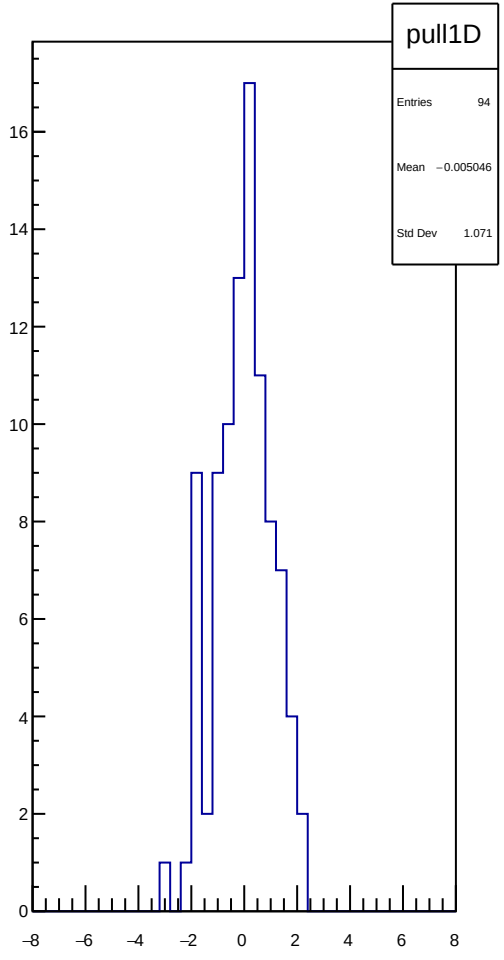

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1595 / 93
p0 60.97 ± 0.04593
67
66
65
64
63
62
61
60
59
58

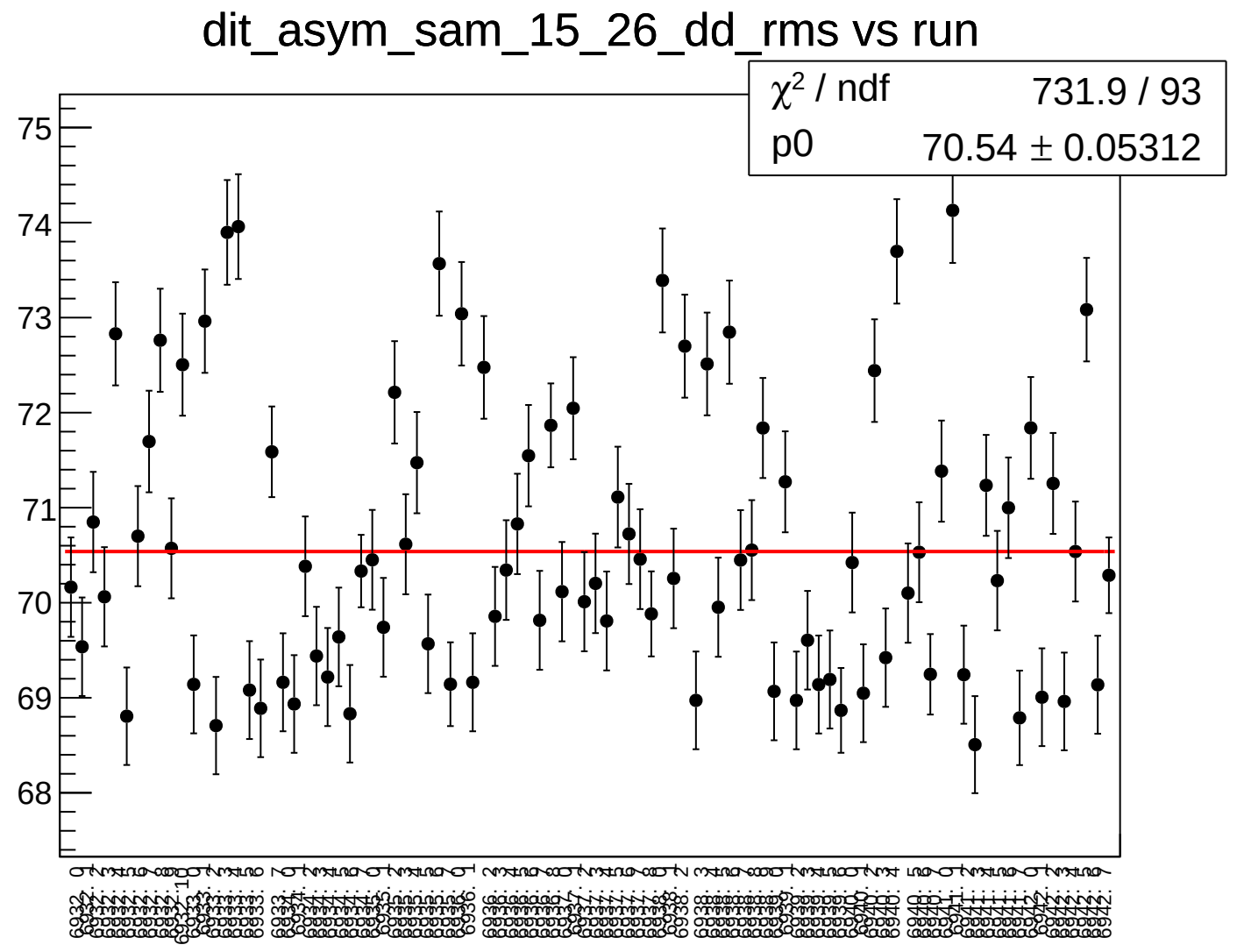

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.63 / 93
p0 418.9 ± 442.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 271.4
Std Dev 0
2
1
0
−1
−2
−3

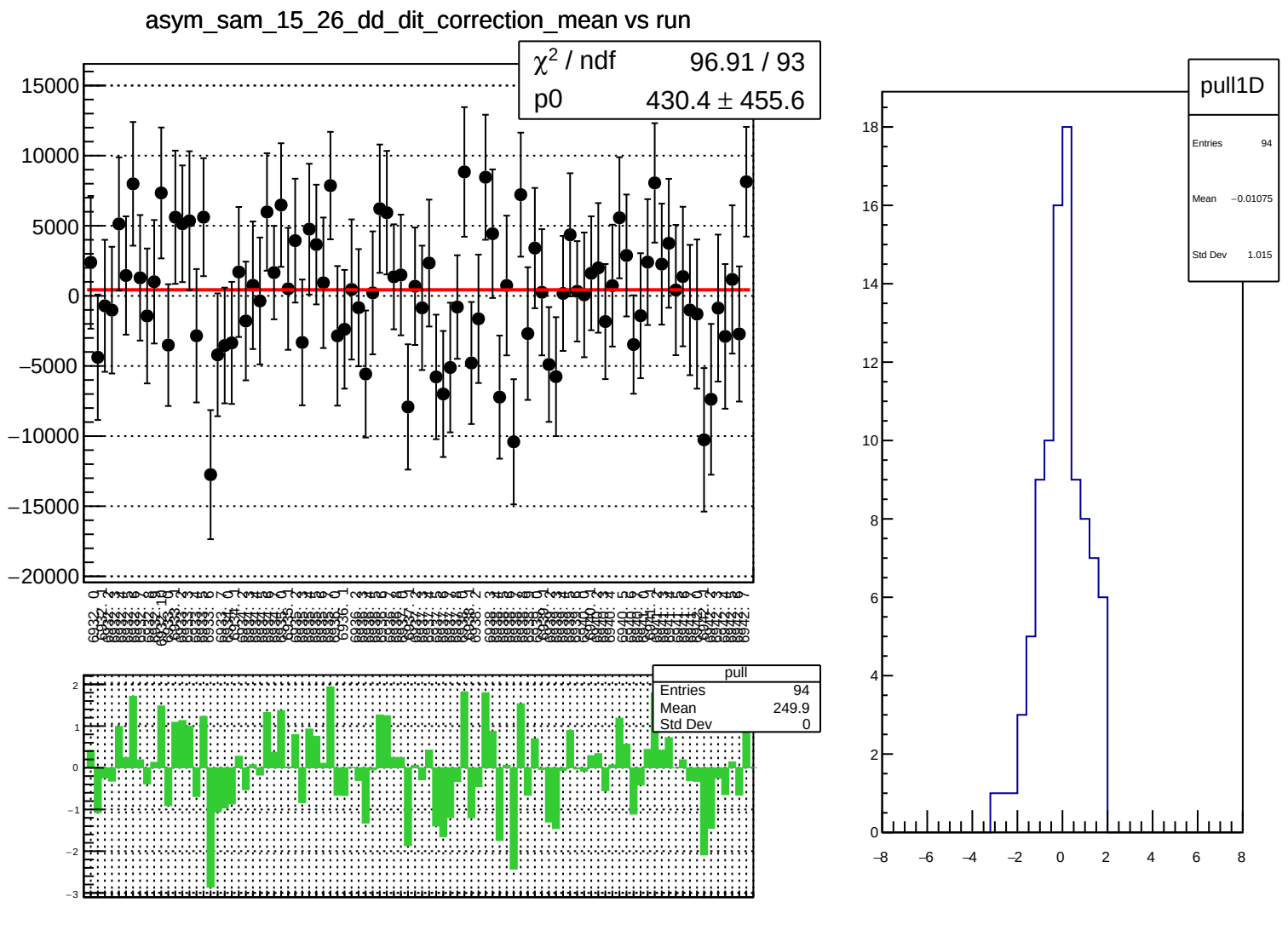

pull1D
Entries 94
Mean −0.008052
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

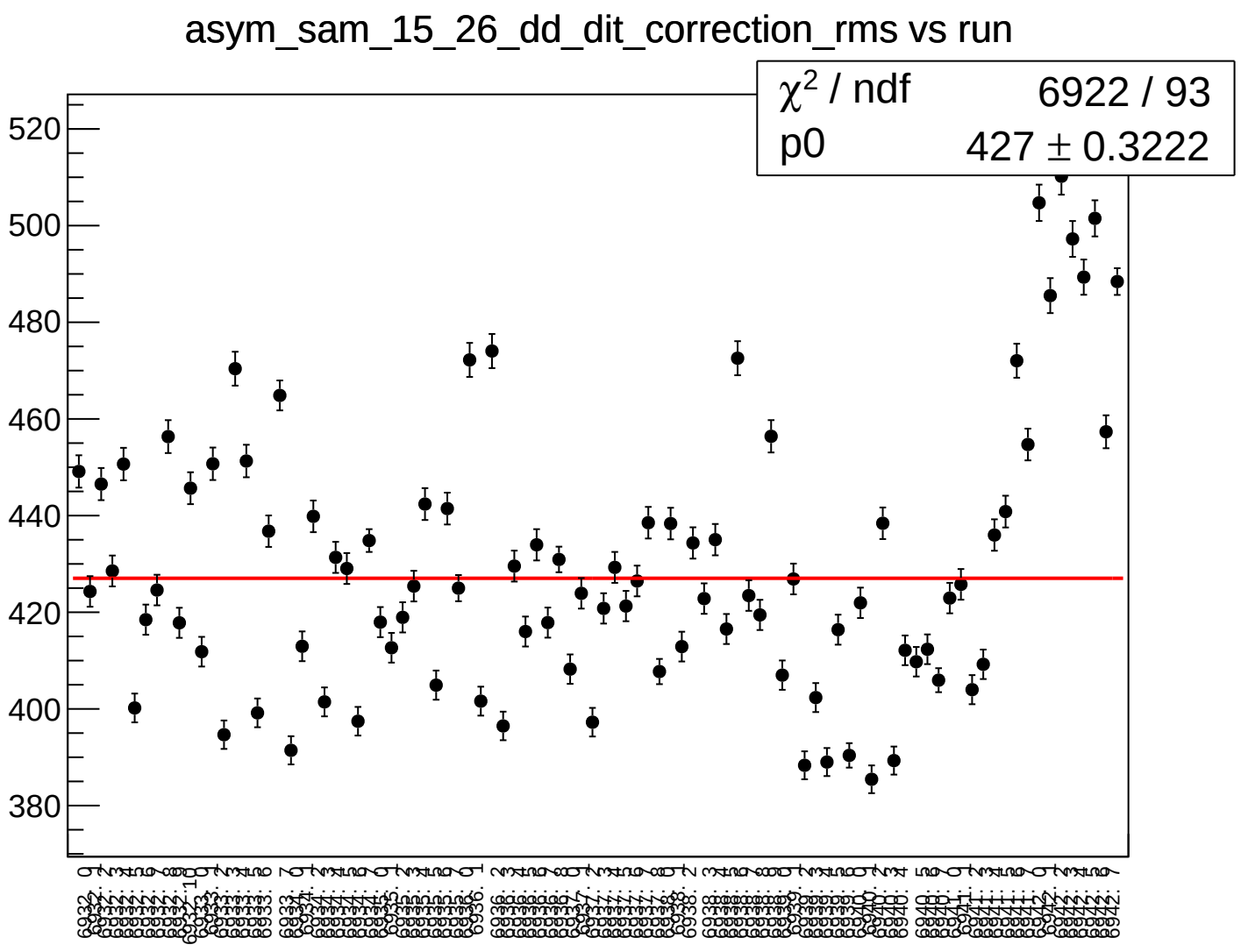

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9863 / 93
p0 414.3 ± 0.3128
520
500
480
460
440
420
400
380
360

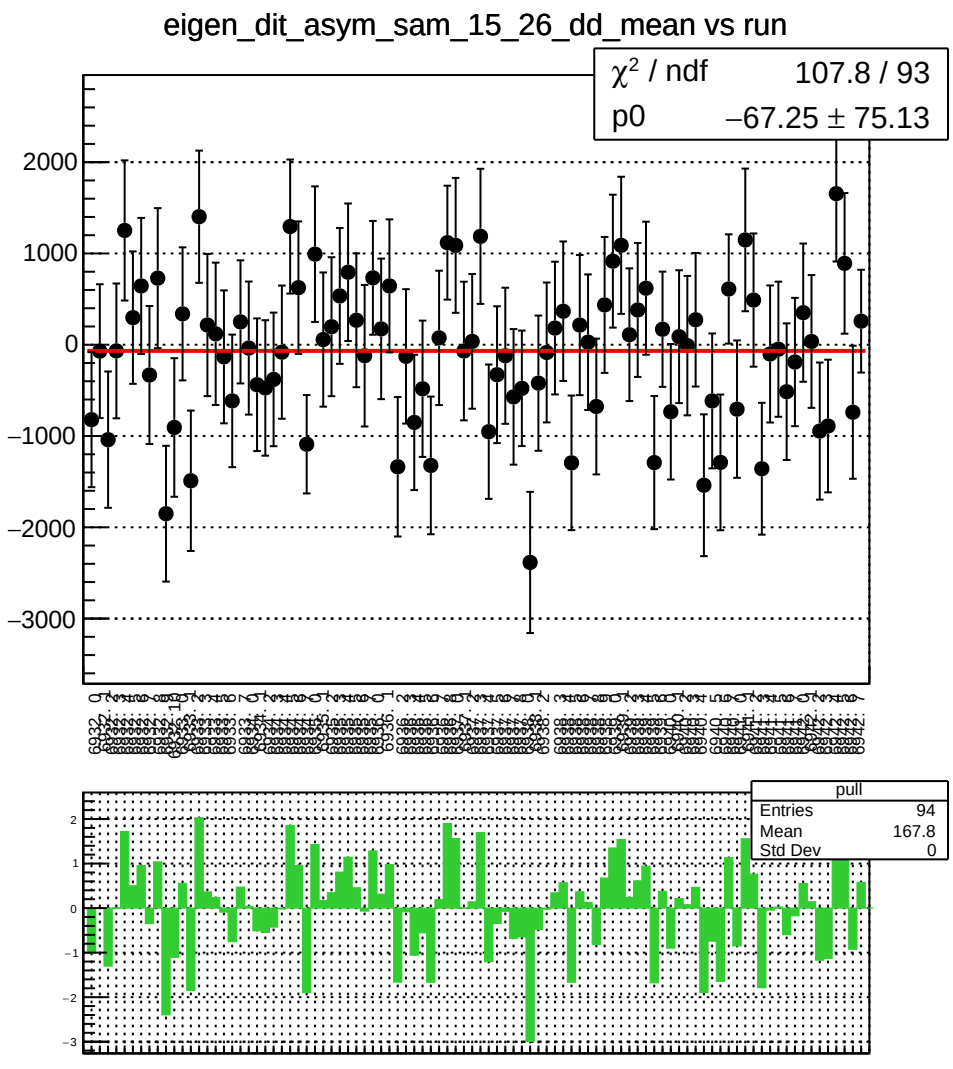

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 107.8 / 93
p0 −67.25 ± 75.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 167.8
Std Dev 0
2
1
0
−1
−2
−3

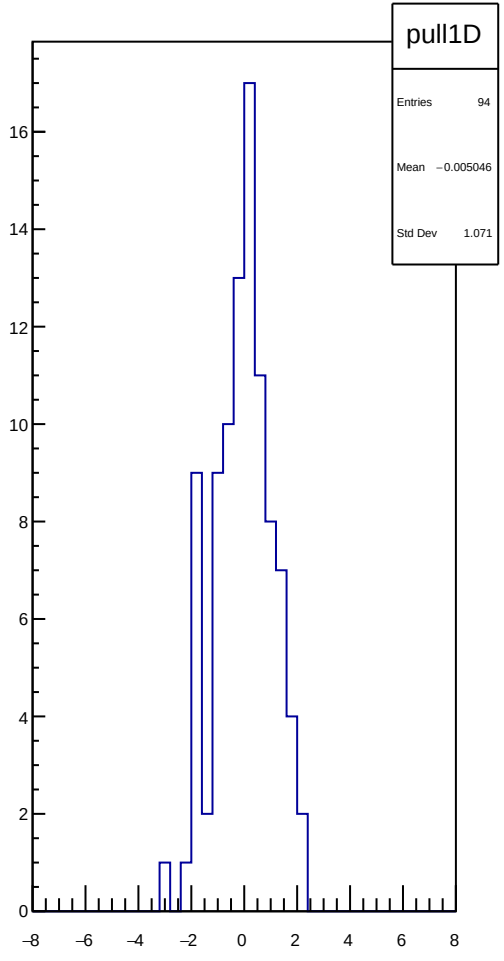

pull1D
Entries 94
Mean −0.005046
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

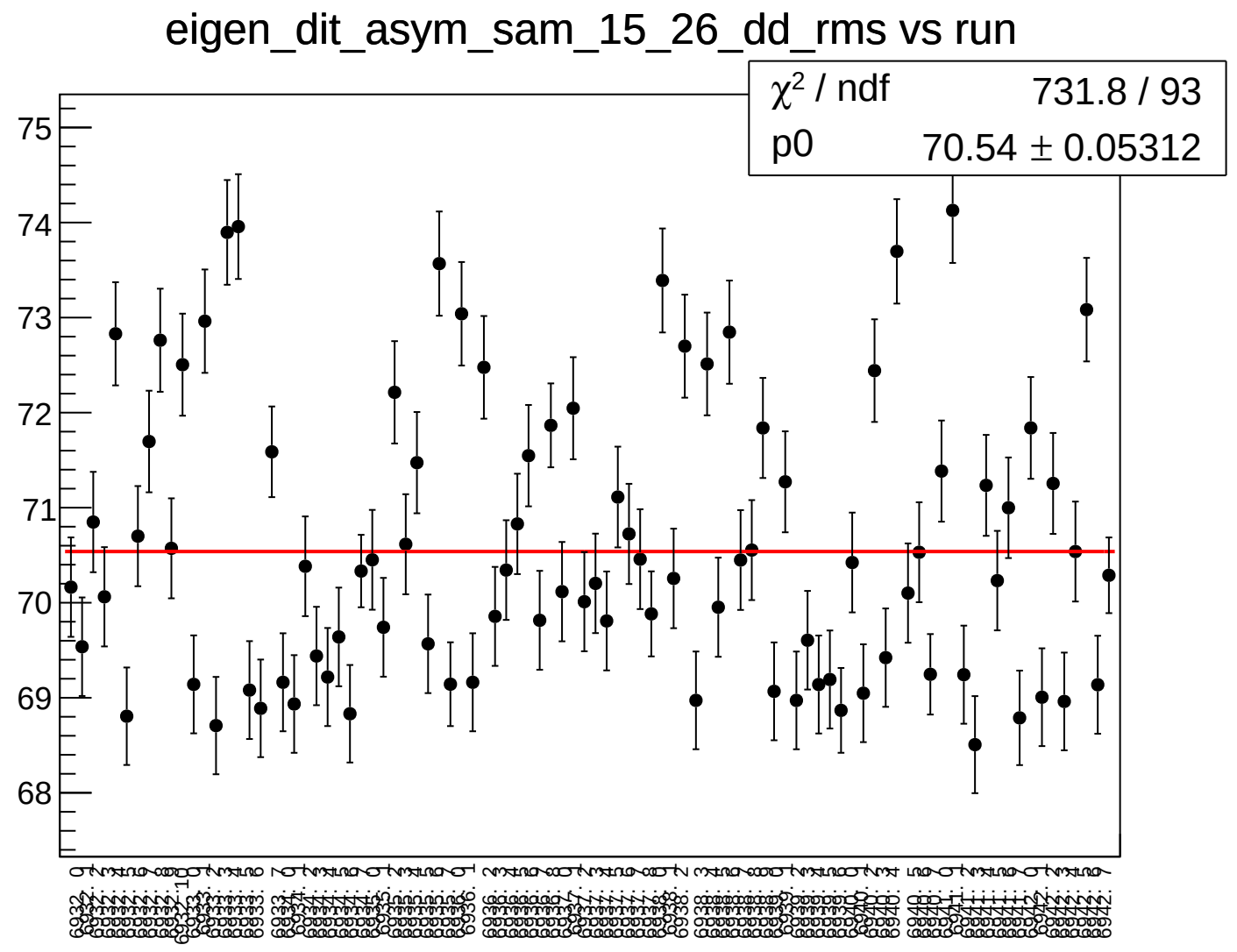

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 731.9 / 93
p0 70.54 ± 0.05312
75
74
73
72
71
70
69
68

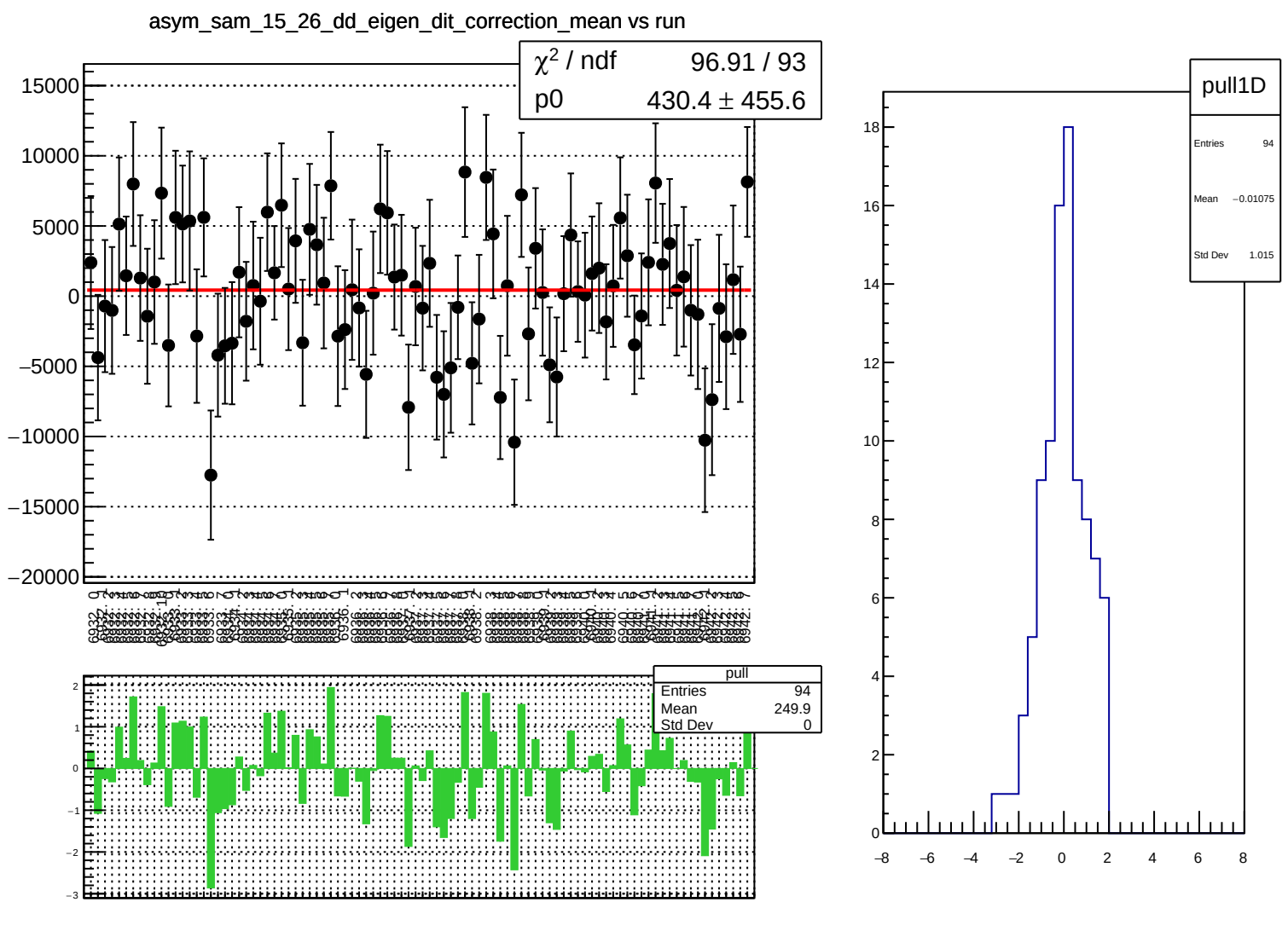

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 96.91 / 93
p0 430.4 ± 455.6
pull
Entries 94
Mean 249.9
Std Dev 0
pull1D
Entries 94
Mean −0.01075
Std Dev 1.015

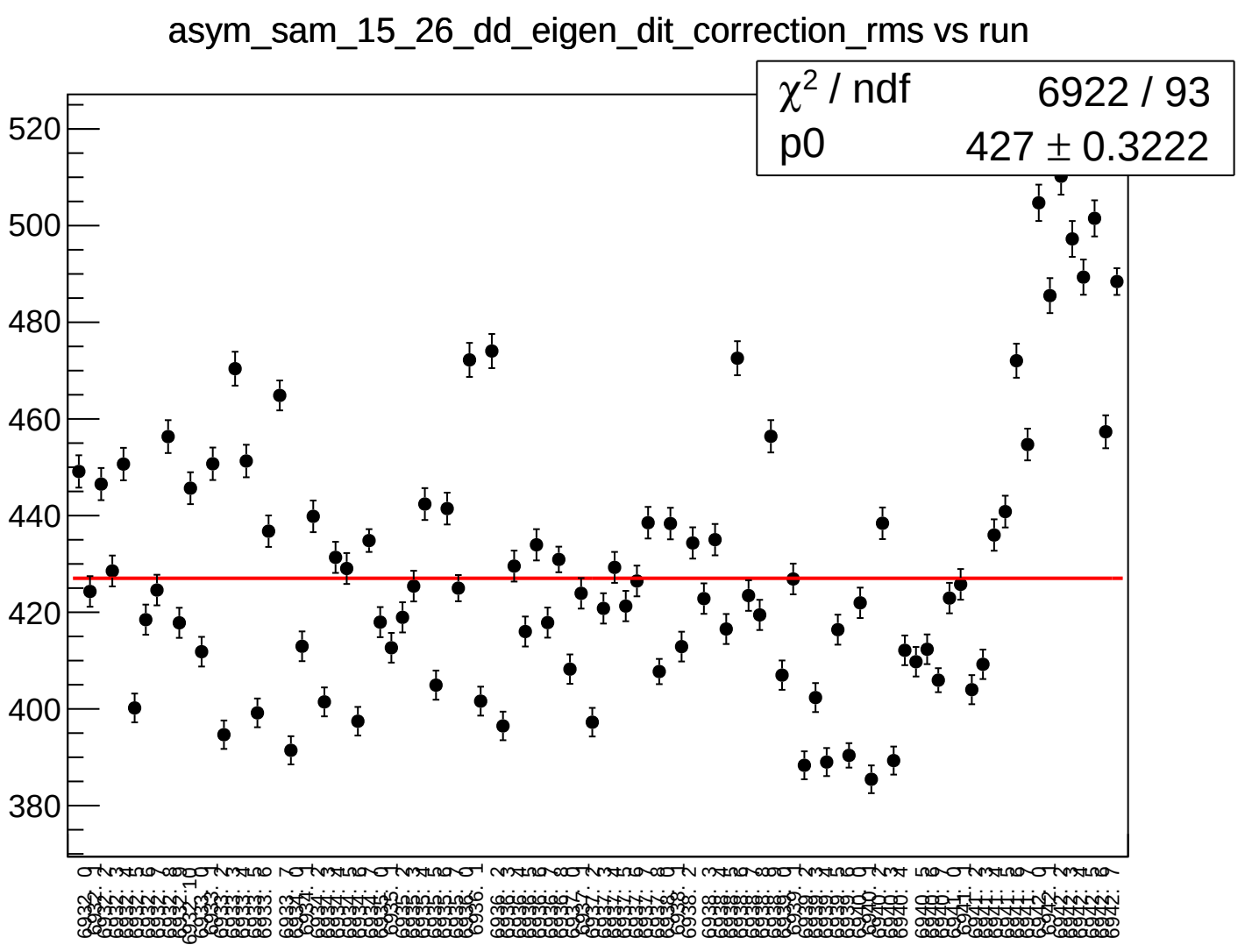

asym_sam_15_26_dd_dit_correction_rms vs run
χ^2 / ndf 6922 / 93
p0 427 ± 0.3222
520
500
480
460
440
420
400
380

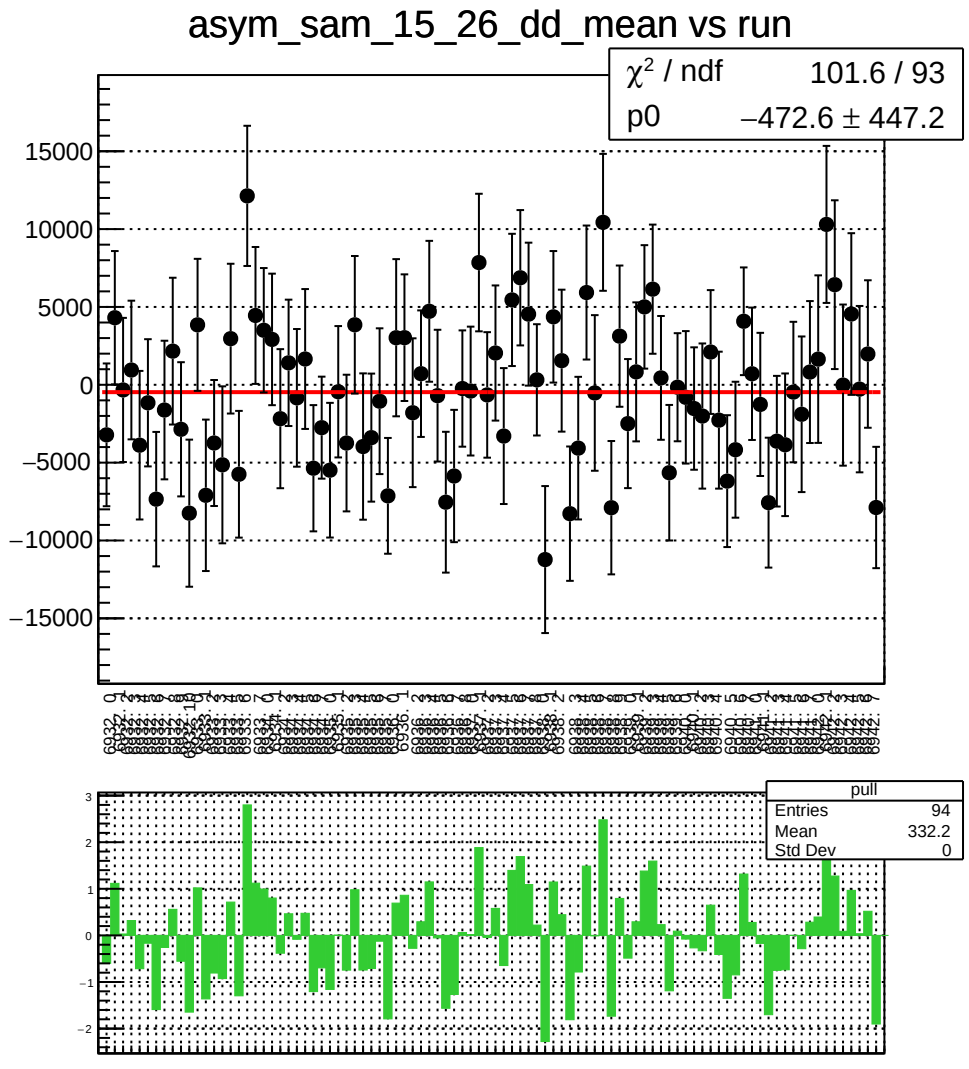

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 107.8 / 93
p0 −67.25 ± 75.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 167.8
Std Dev 0
2
1
0
−1
−2
−3

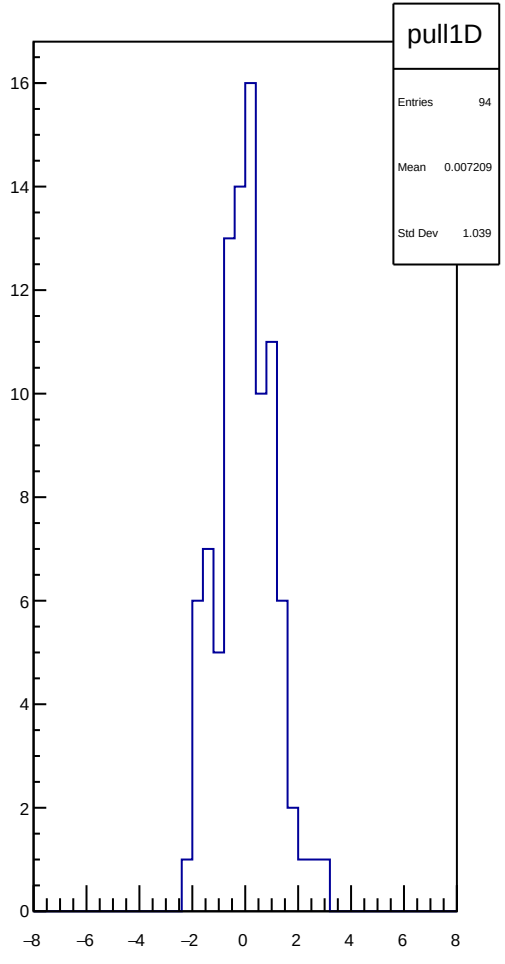

pull1D
Entries 94
Mean −0.005046
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

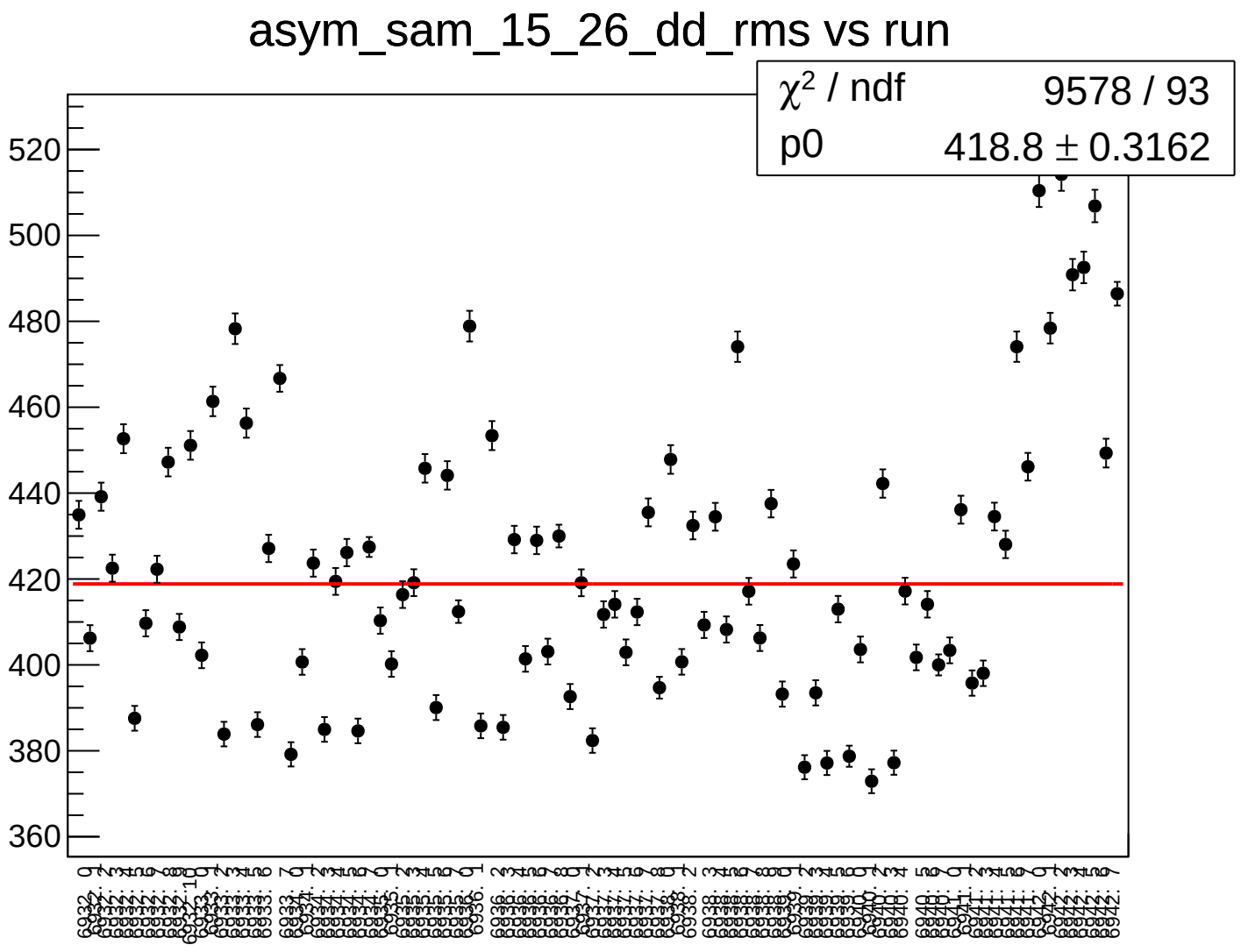

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 731.8 / 93
p0 70.54 ± 0.05312
75
74
73
72
71
70
69
68

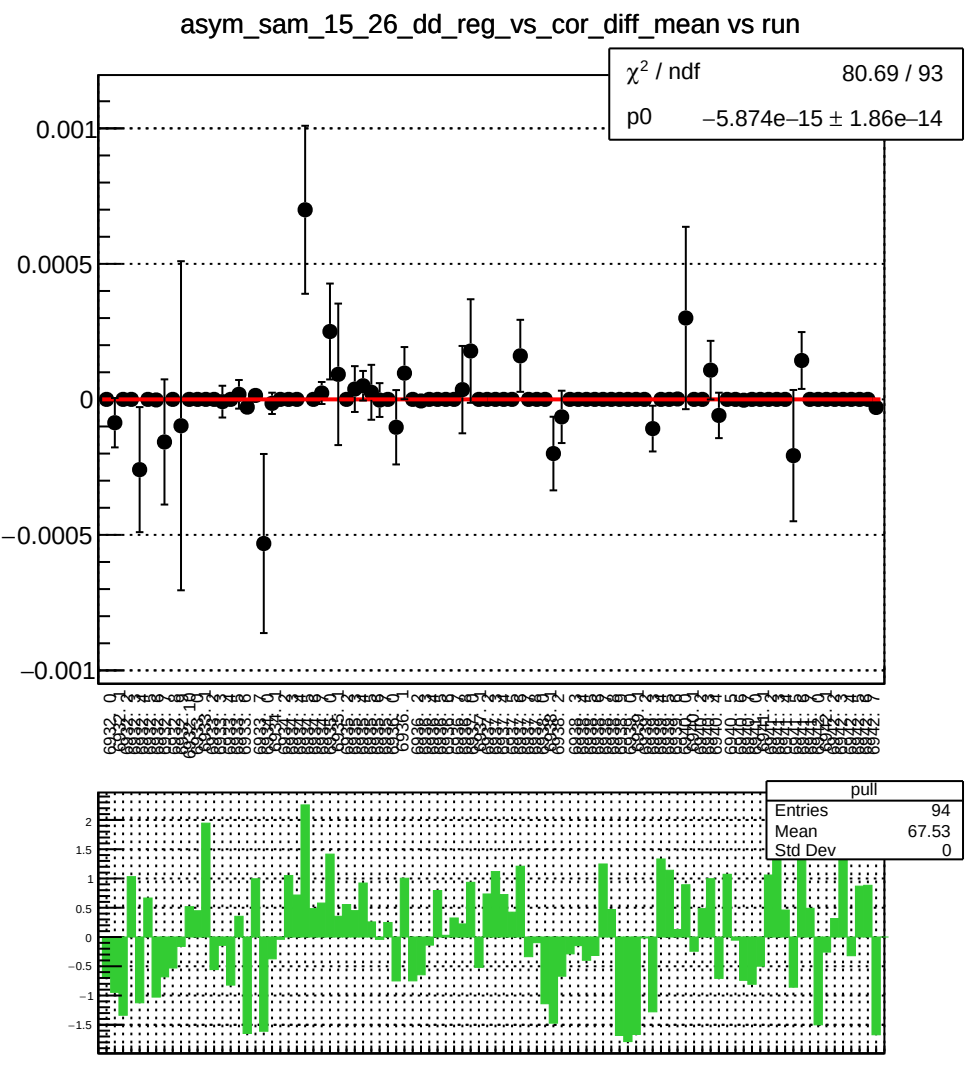

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.91 / 93
p0 430.4 ± 455.6
pull
Entries 94
Mean 249.9
Std Dev 0
pull1D
Entries 94
Mean −0.01075
Std Dev 1.015

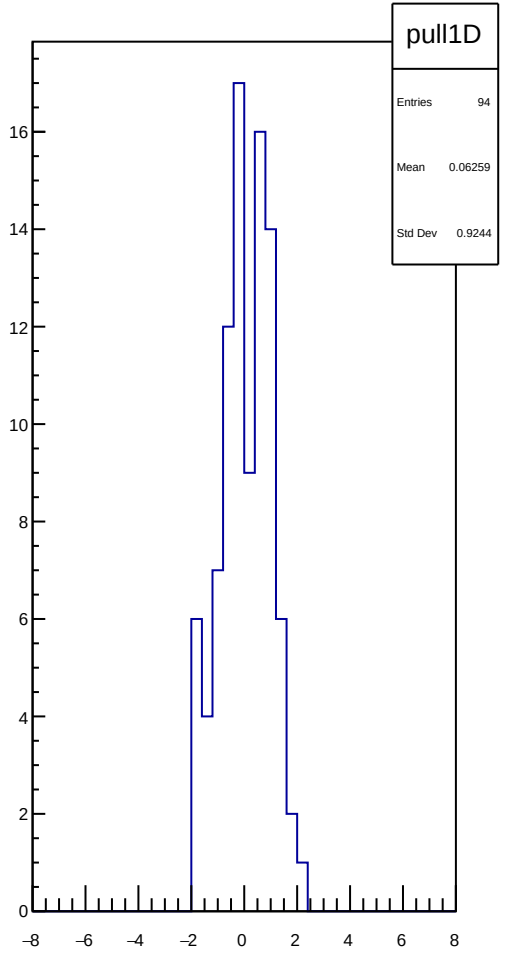

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6922 / 93
p0 427 ± 0.3222
520
500
480
460
440
420
400
380

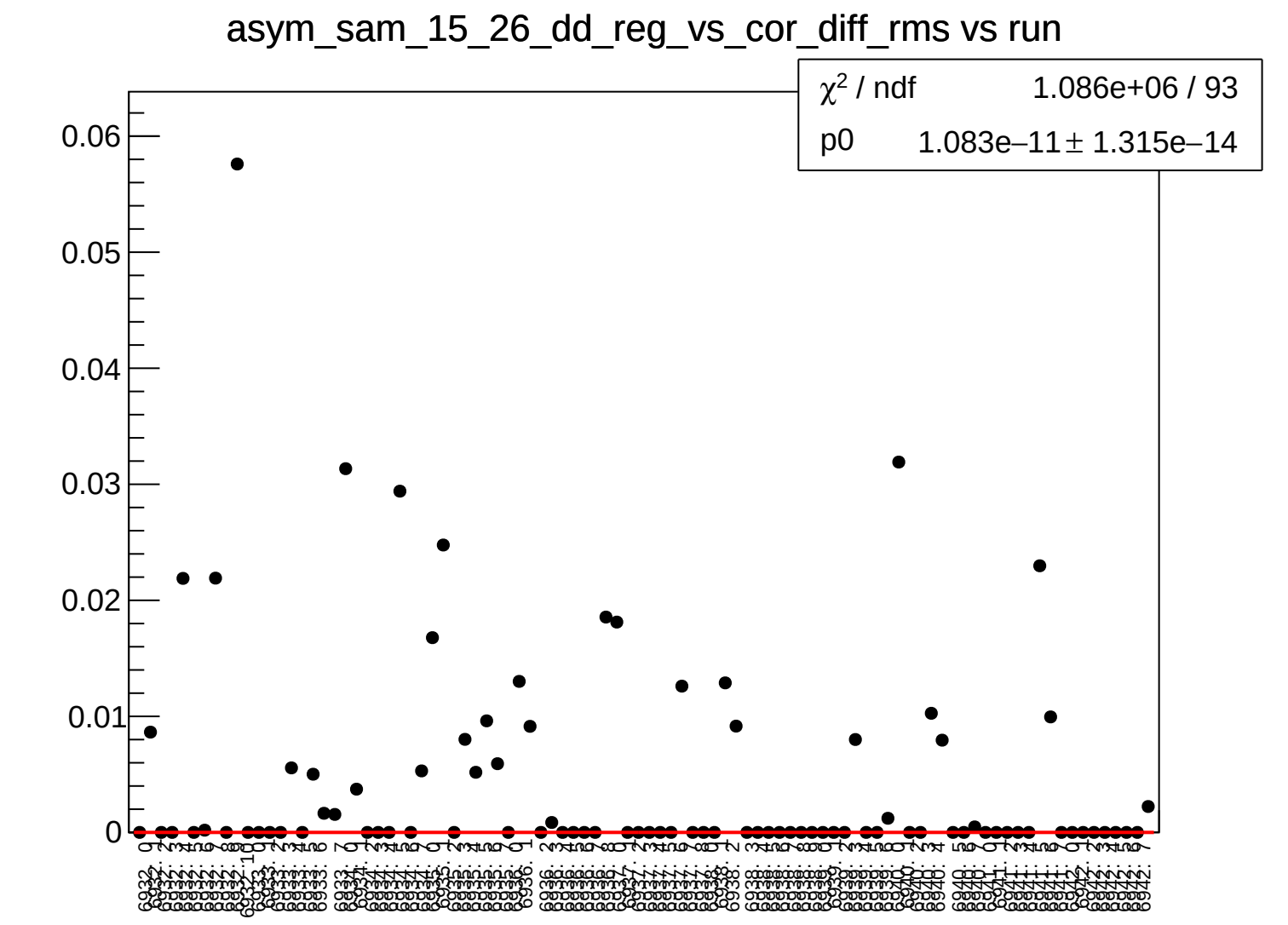

asym_sam_15_26_dd_mean vs run
χ² / ndf 101.6 / 93
p0 −472.6 ± 447.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 332.2
Std Dev 0
3
2
1
0
−1
−2

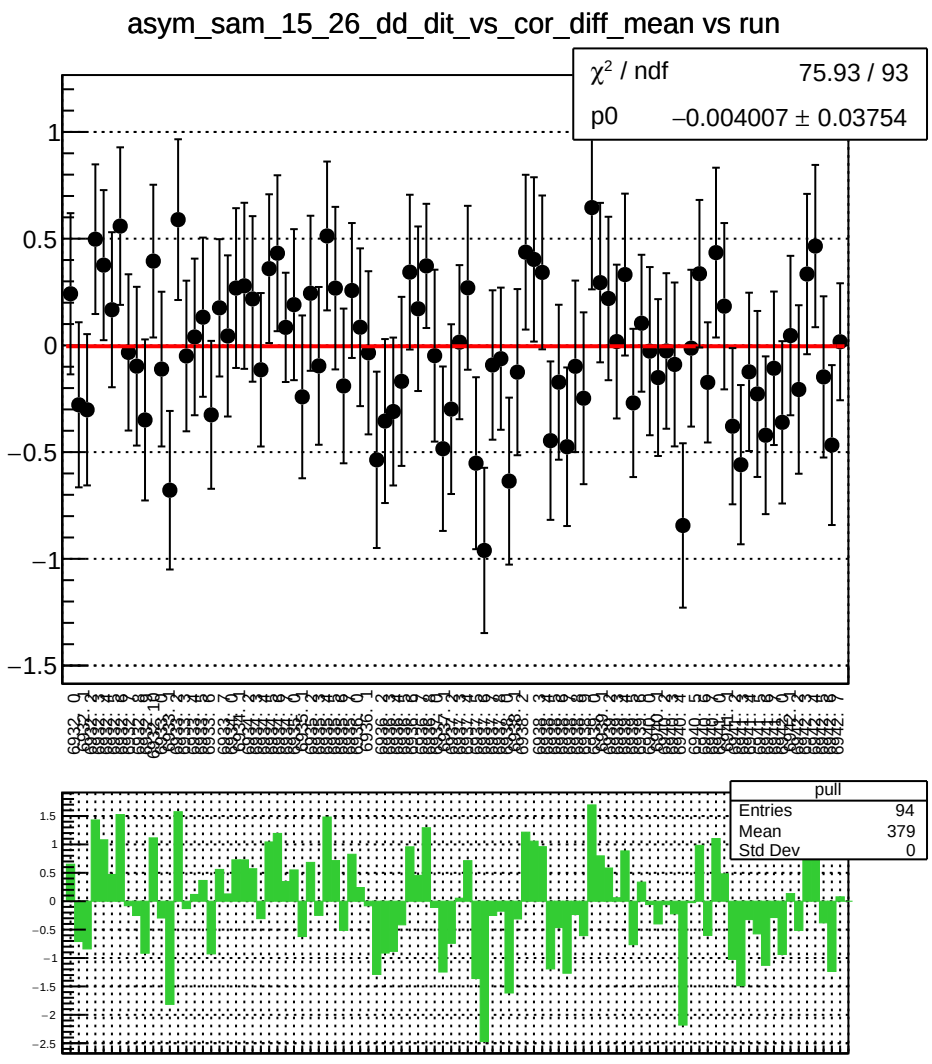

pull1D
Entries 94
Mean 0.007209
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

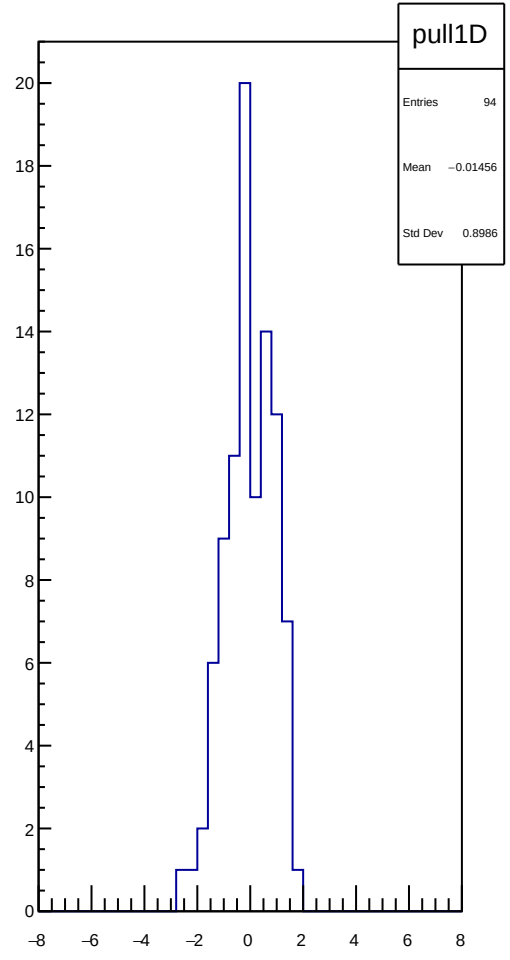

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 9578 / 93
p0 418.8 ± 0.3162
520
500
480
460
440
420
400
380
360

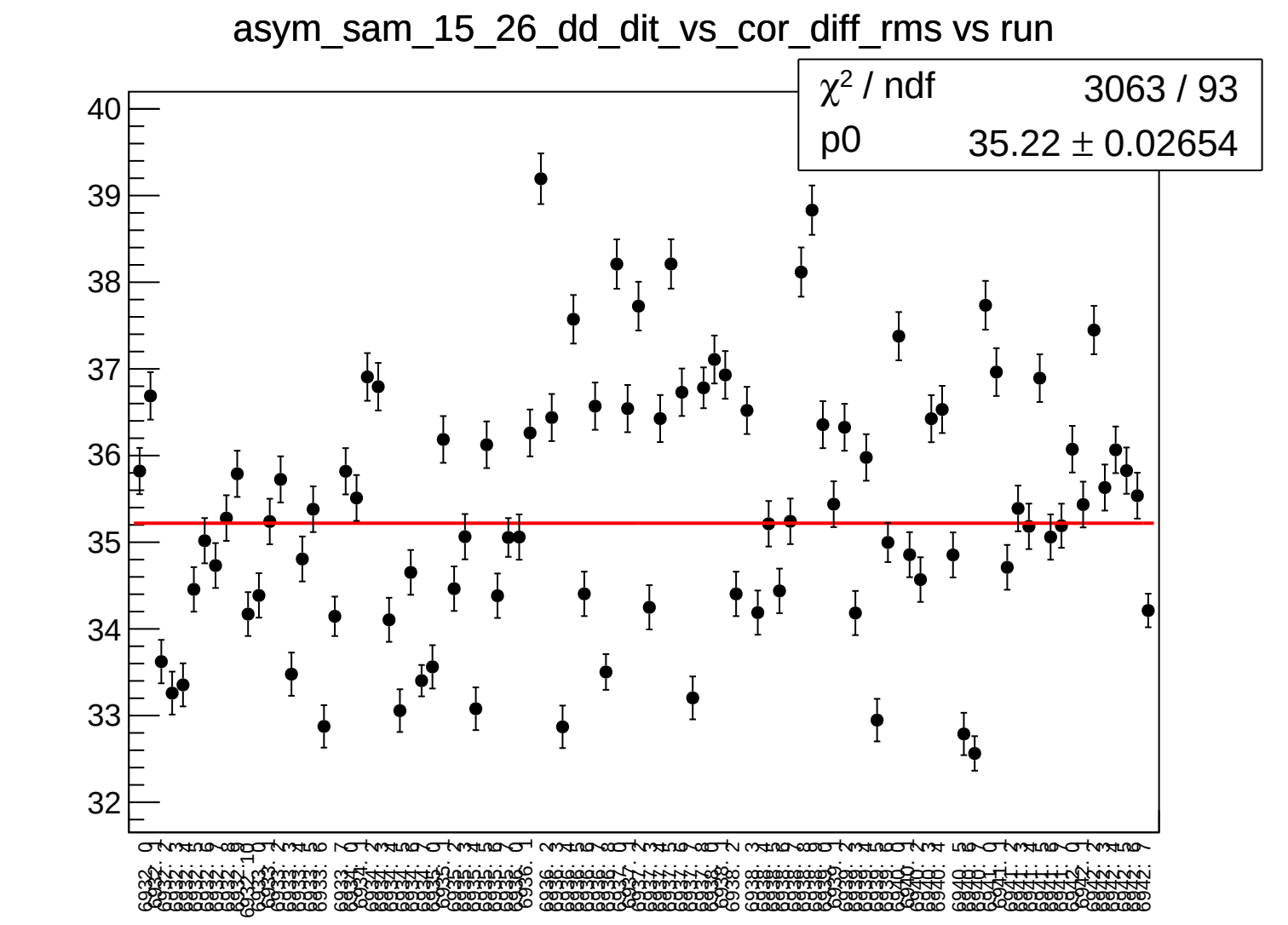

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.69 / 93
p0 −5.874e−15 ± 1.86e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 67.53
Std Dev 0

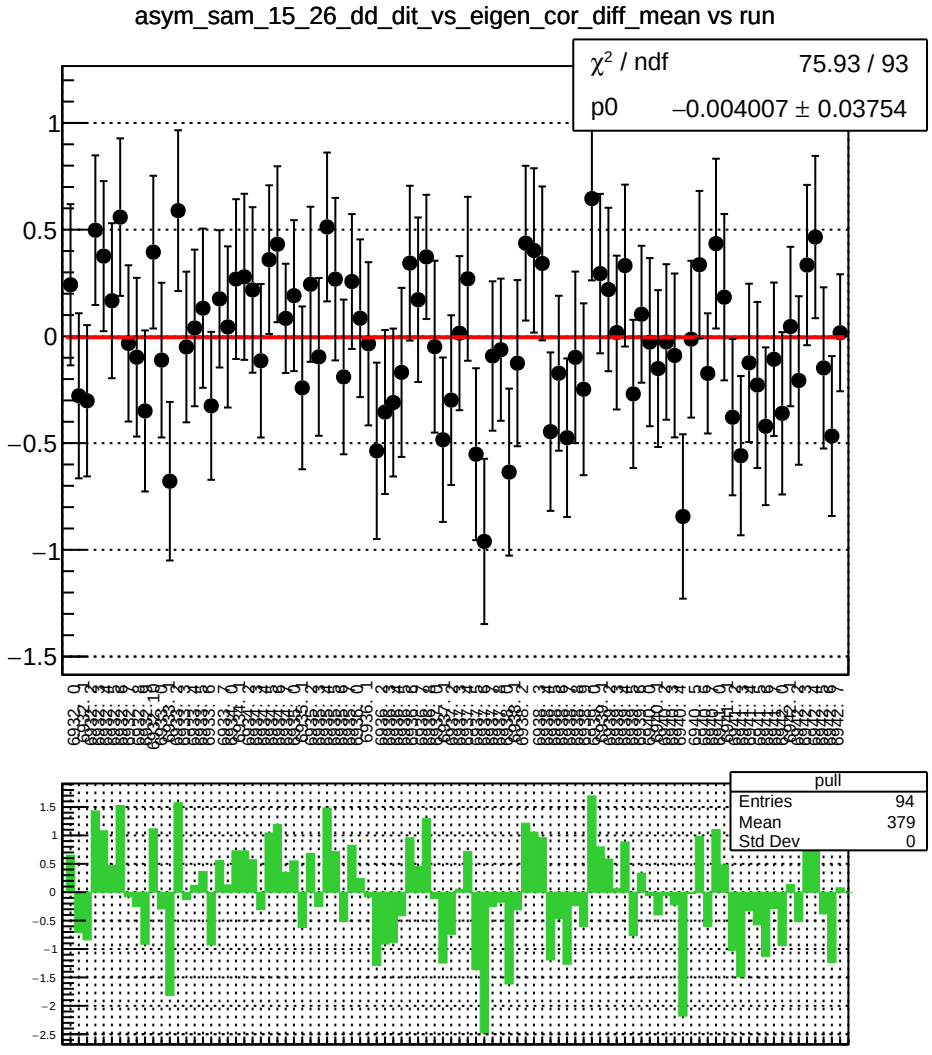

pull1D
Entries 94
Mean 0.06259
Std Dev 0.9244

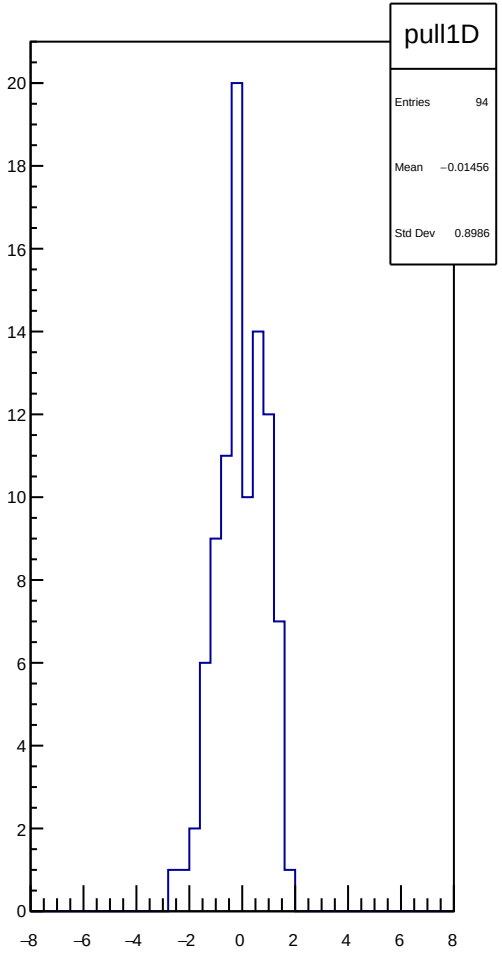

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 93
p0 1.083e−11 ± 1.315e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

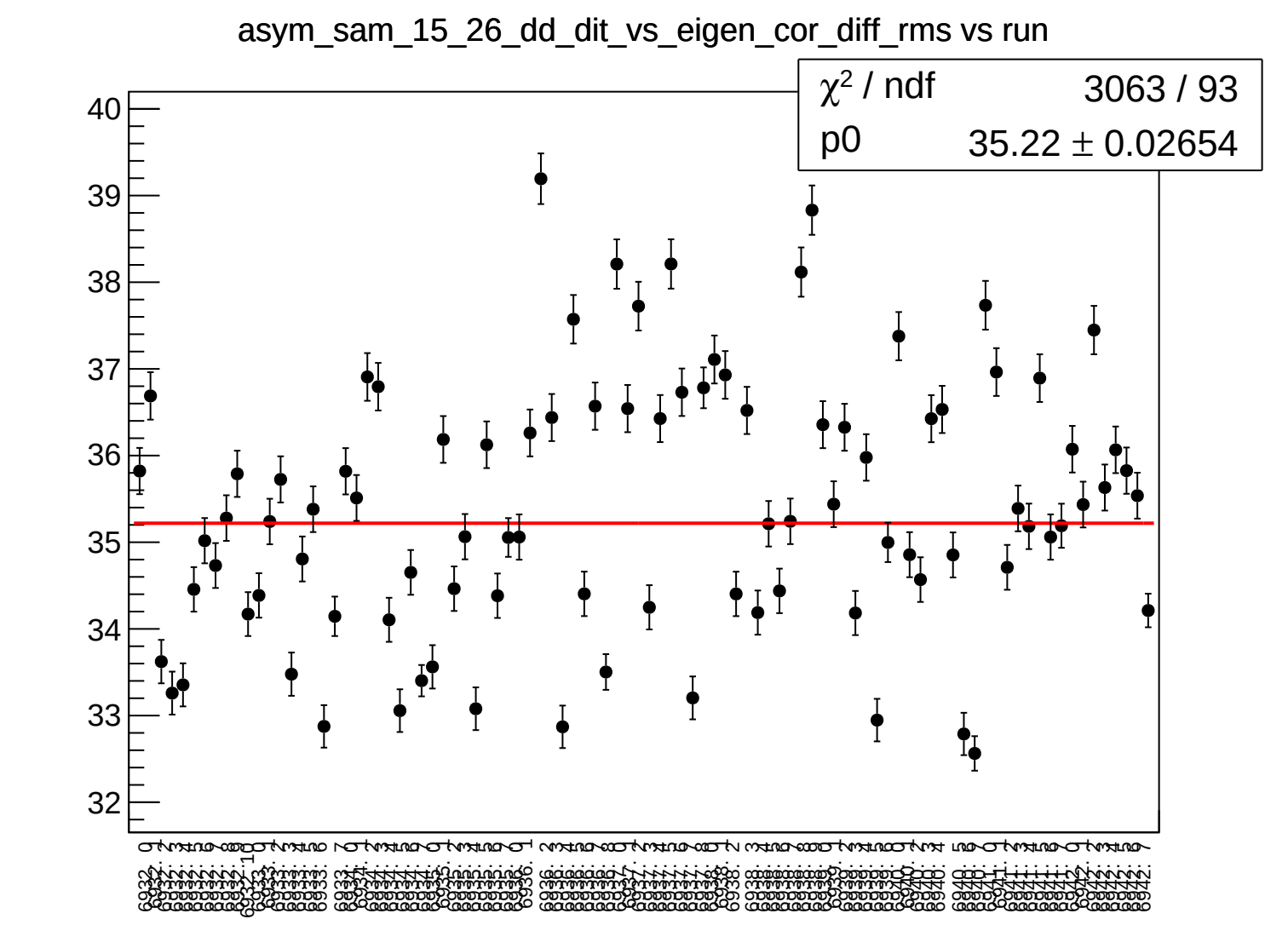

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 93
p0 −0.004007 ± 0.03754
pull
Entries 94
Mean 379
Std Dev 0

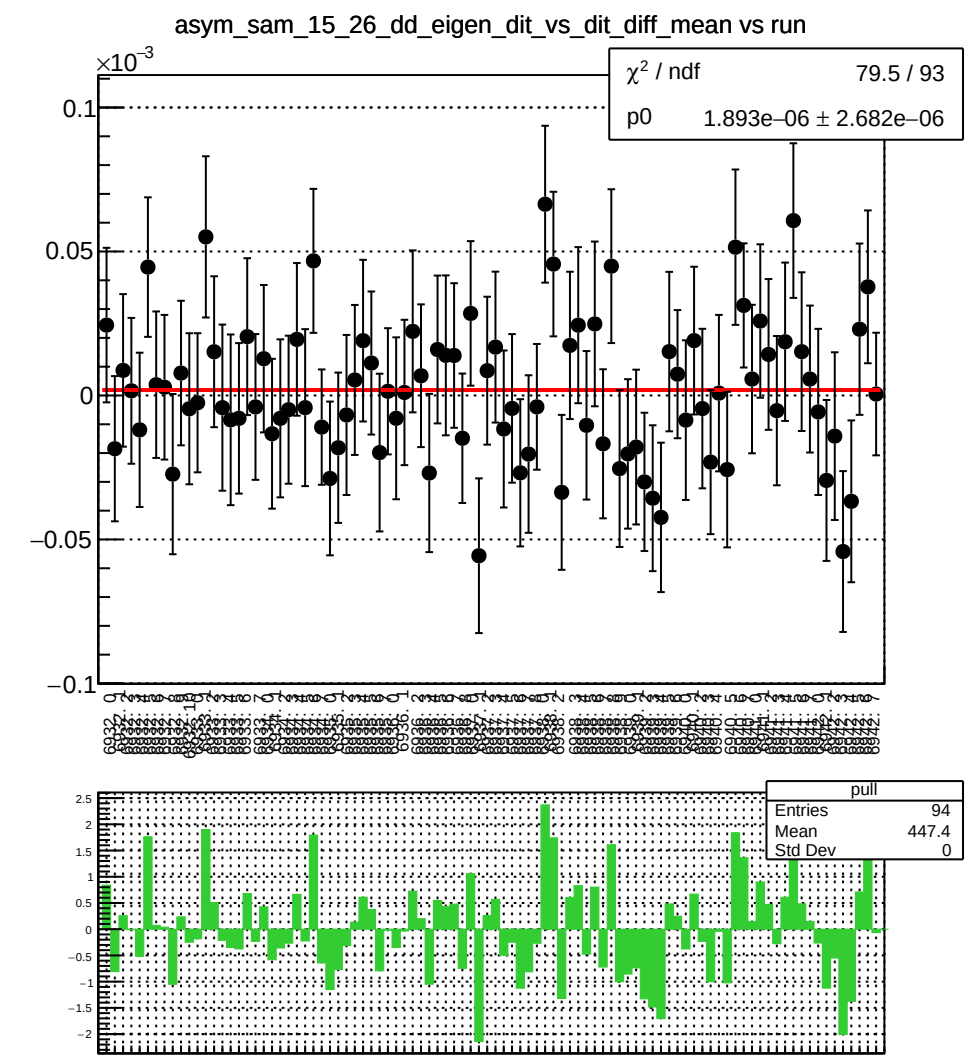

pull1D
Entries 94
Mean −0.01456
Std Dev 0.8986

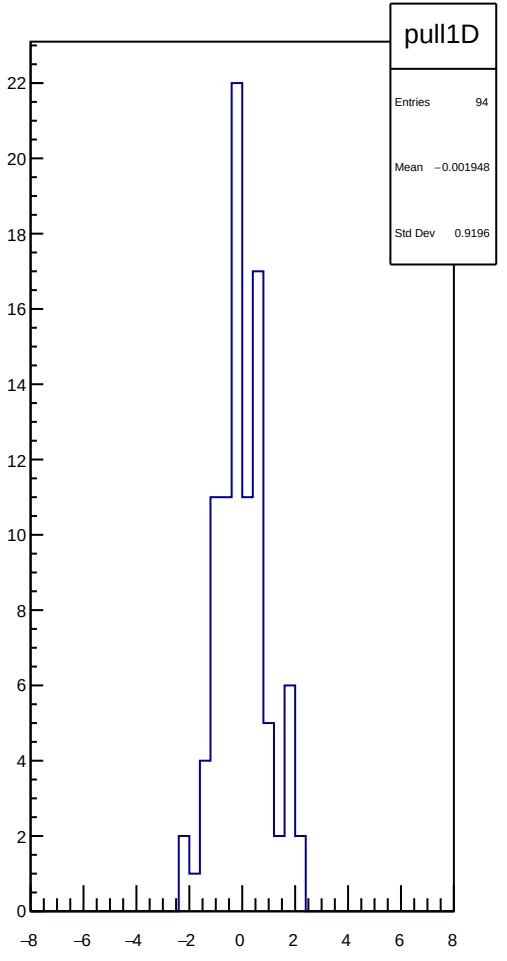

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3063 / 93
p0 35.22 ± 0.02654
40
39
38
37
36
35
34
33
32

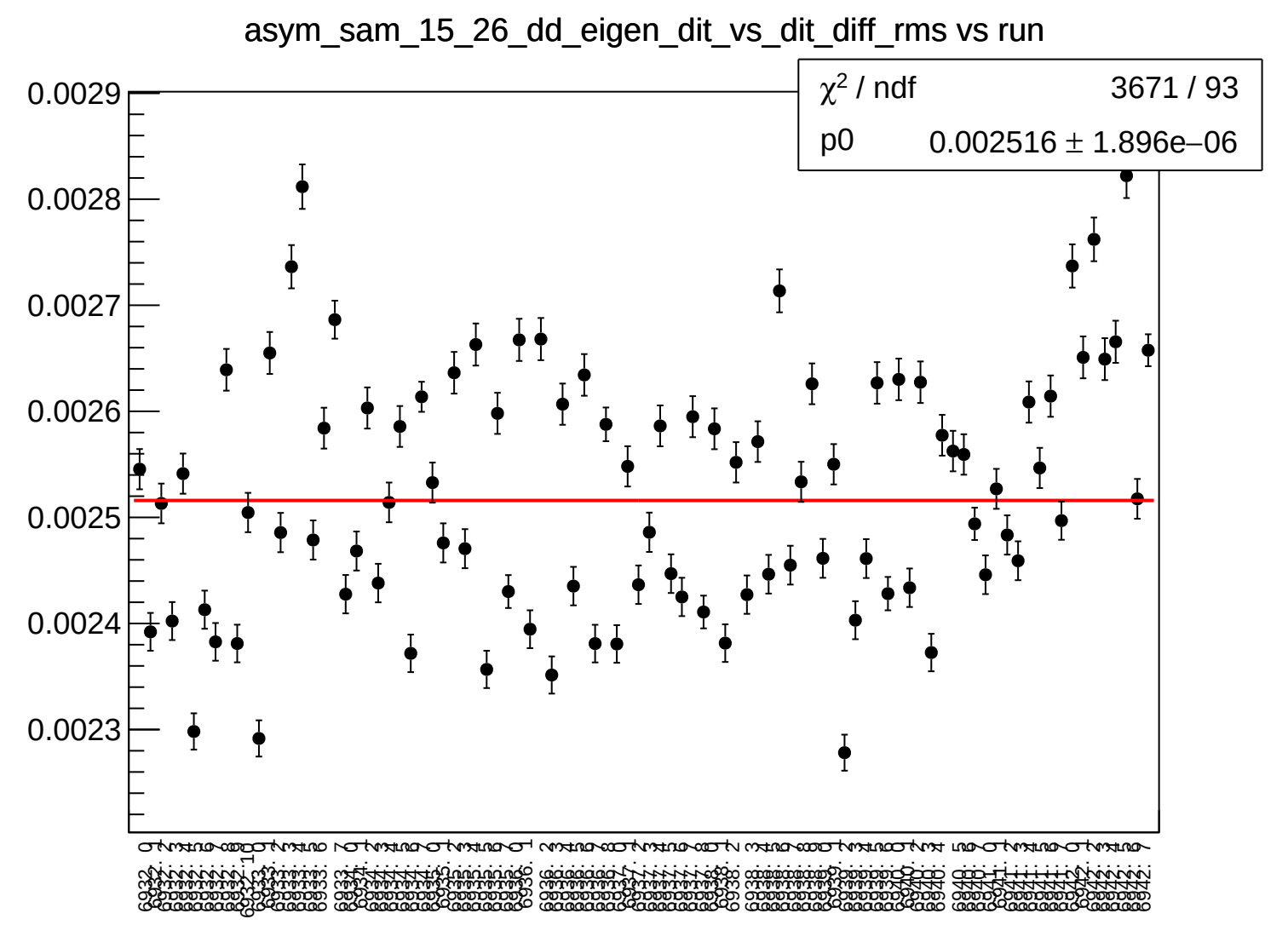

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 93
p0 −0.004007 ± 0.03754
pull
Entries 94
Mean 379
Std Dev 0

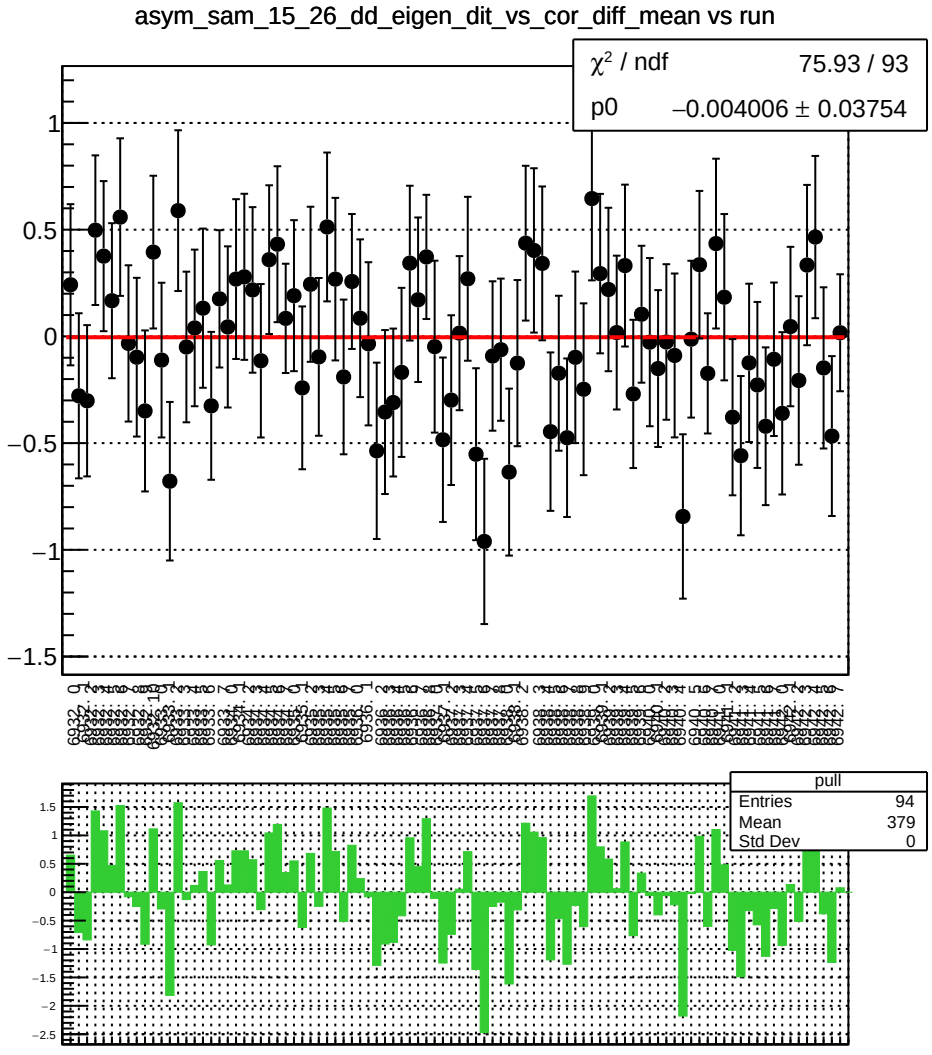

pull1D
Entries 94
Mean −0.01456
Std Dev 0.8986

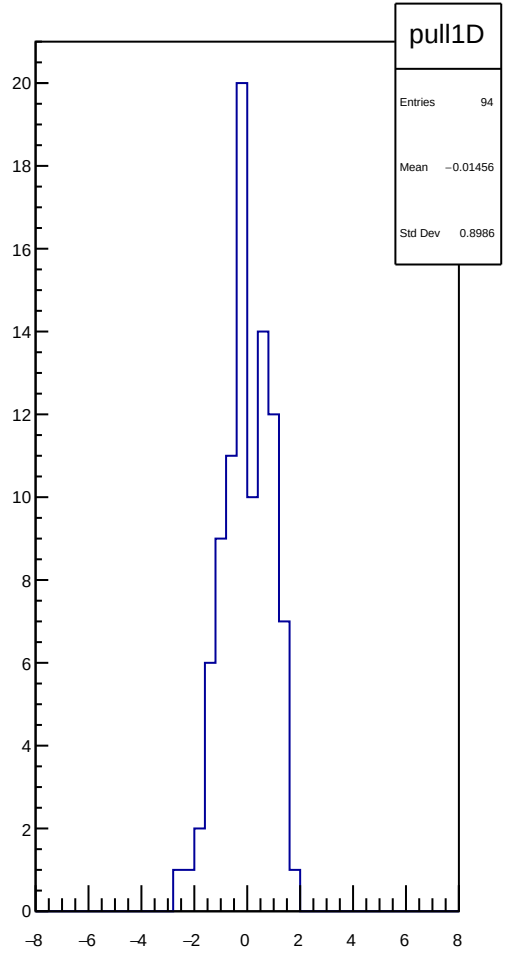

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3063 / 93
p0 35.22 ± 0.02654
40
39
38
37
36
35
34
33
32

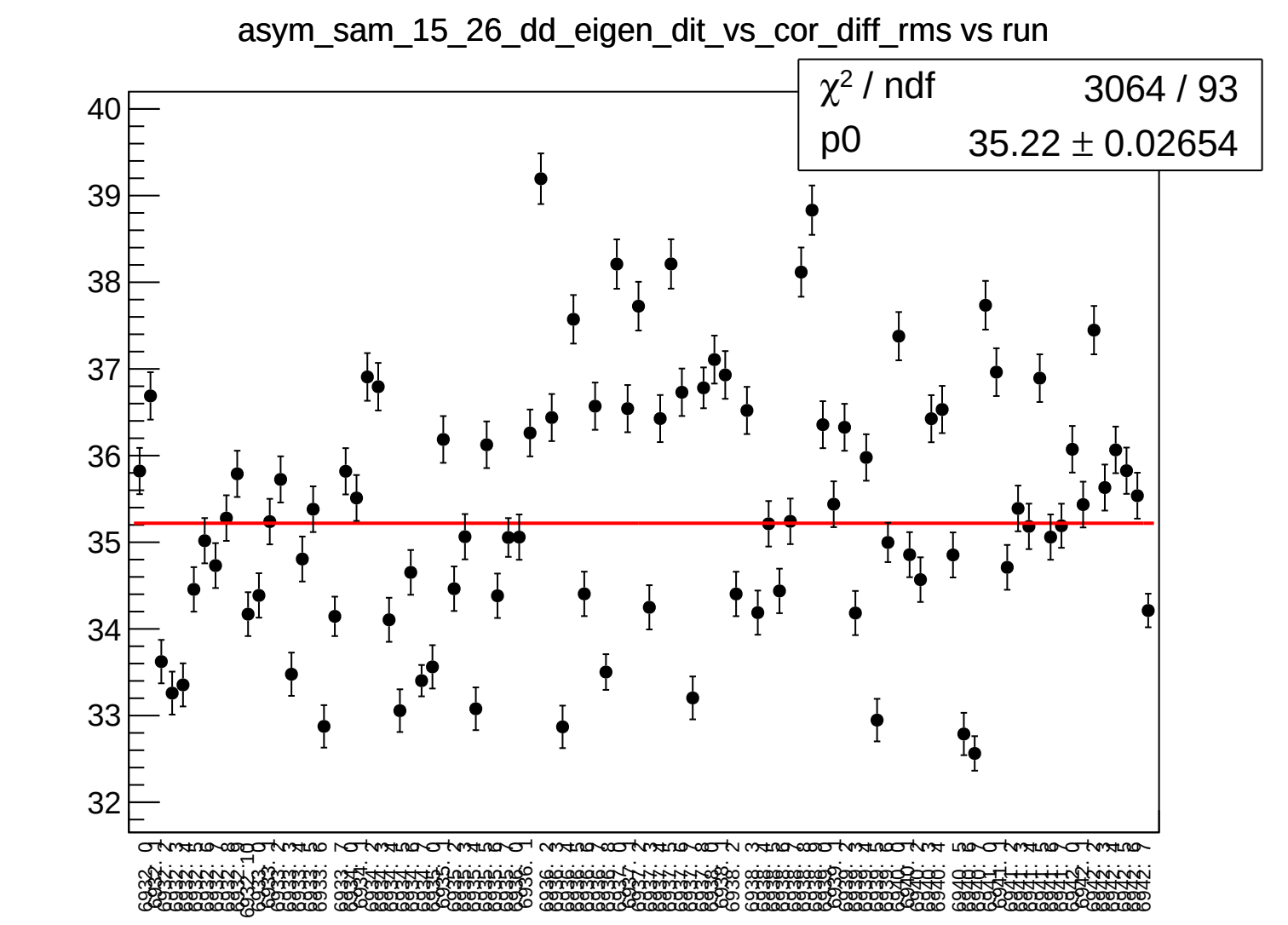

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.5 / 93
p0 1.893e−06 ± 2.682e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 447.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

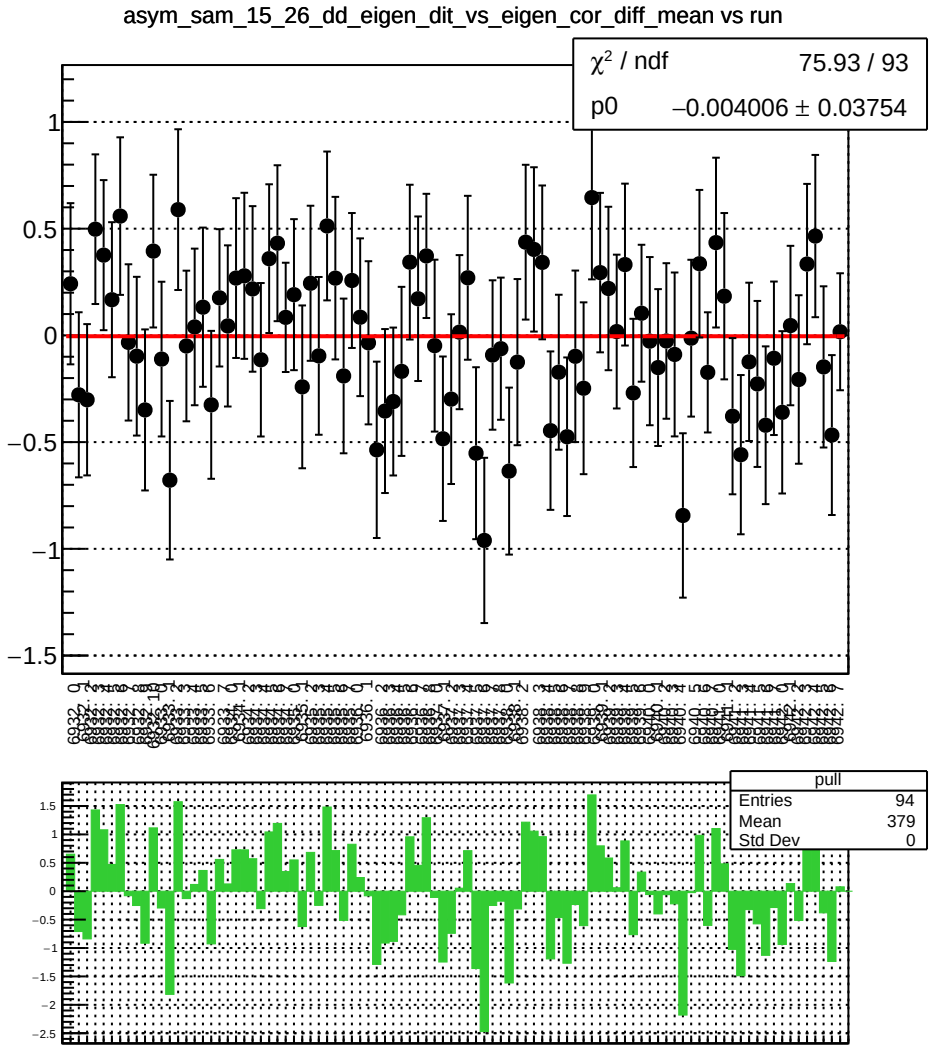

pull1D
Entries 94
Mean −0.001948
Std Dev 0.9196
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

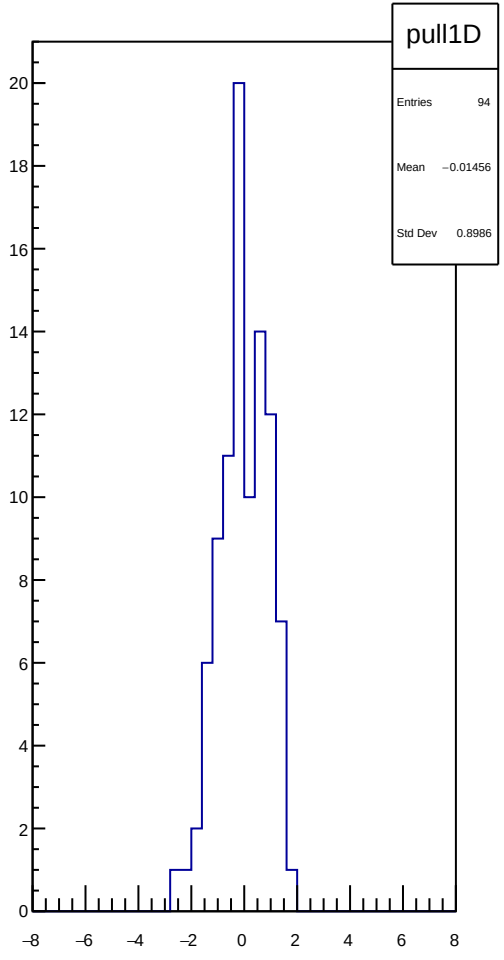

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3671 / 93
p0 0.002516 ± 1.896e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

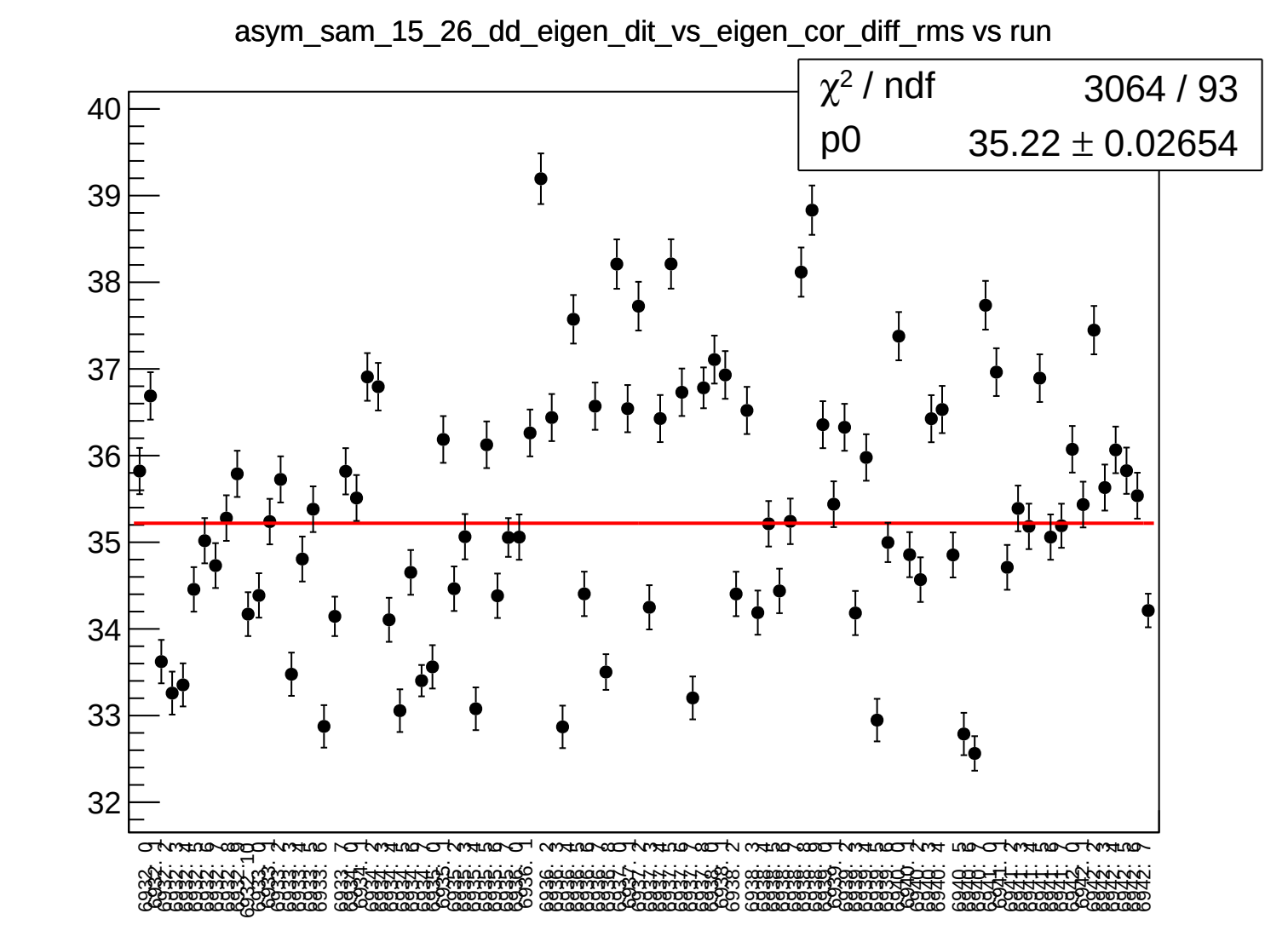

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.93 / 93
p0 −0.004006 ± 0.03754
pull
Entries 94
Mean 379
Std Dev 0

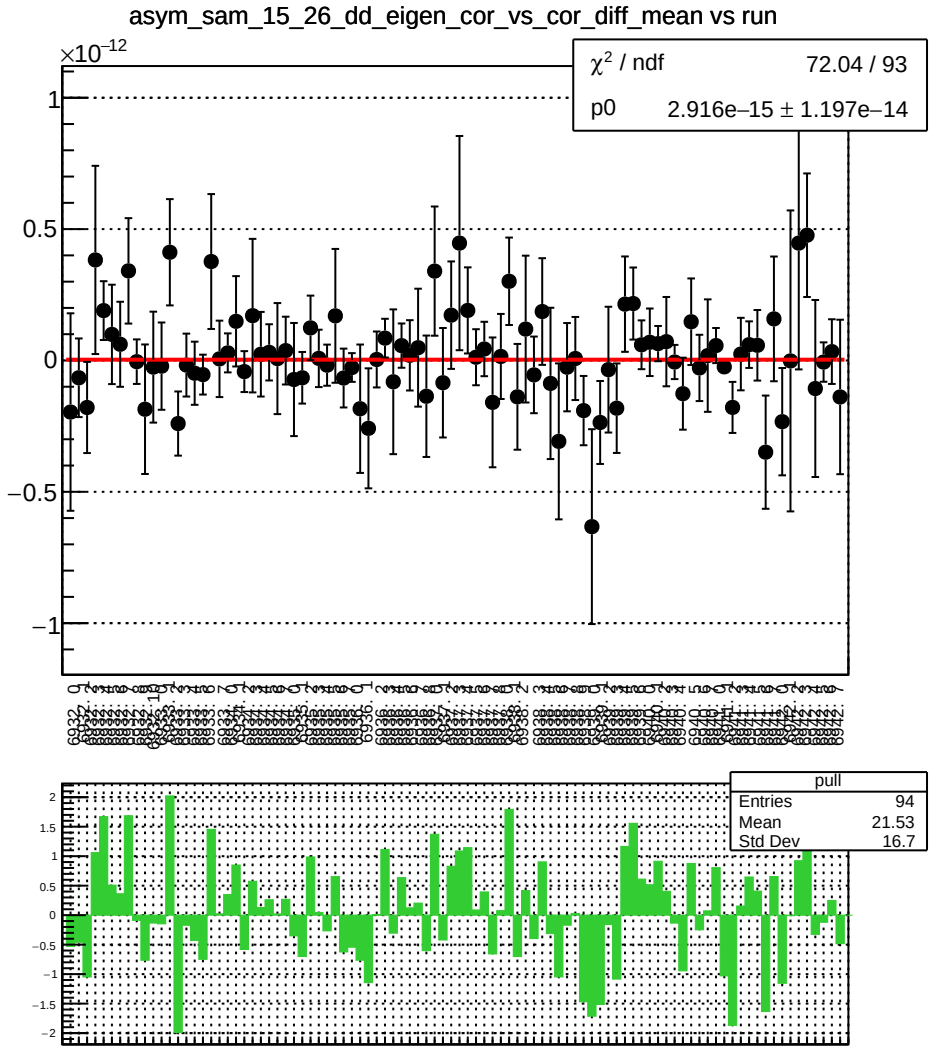

pull1D
Entries 94
Mean −0.01456
Std Dev 0.8986

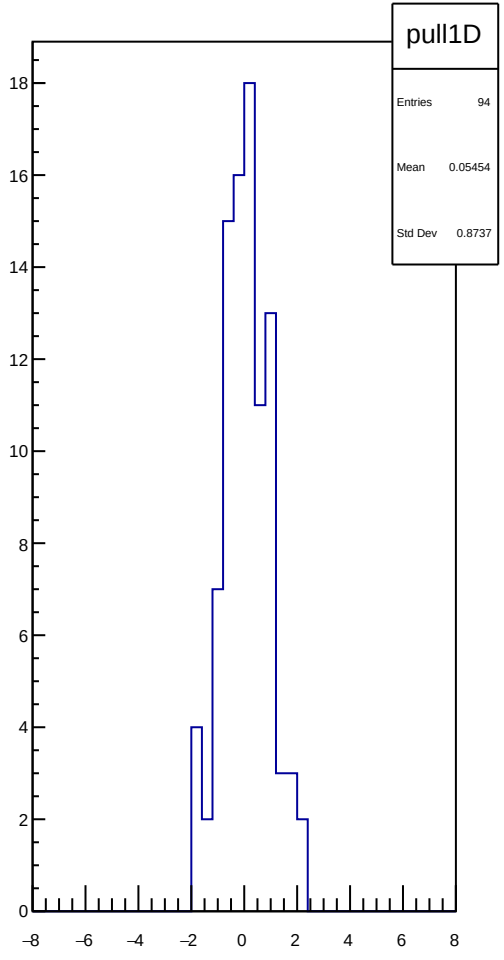

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3064 / 93
p0 35.22 ± 0.02654
40
39
38
37
36
35
34
33
32

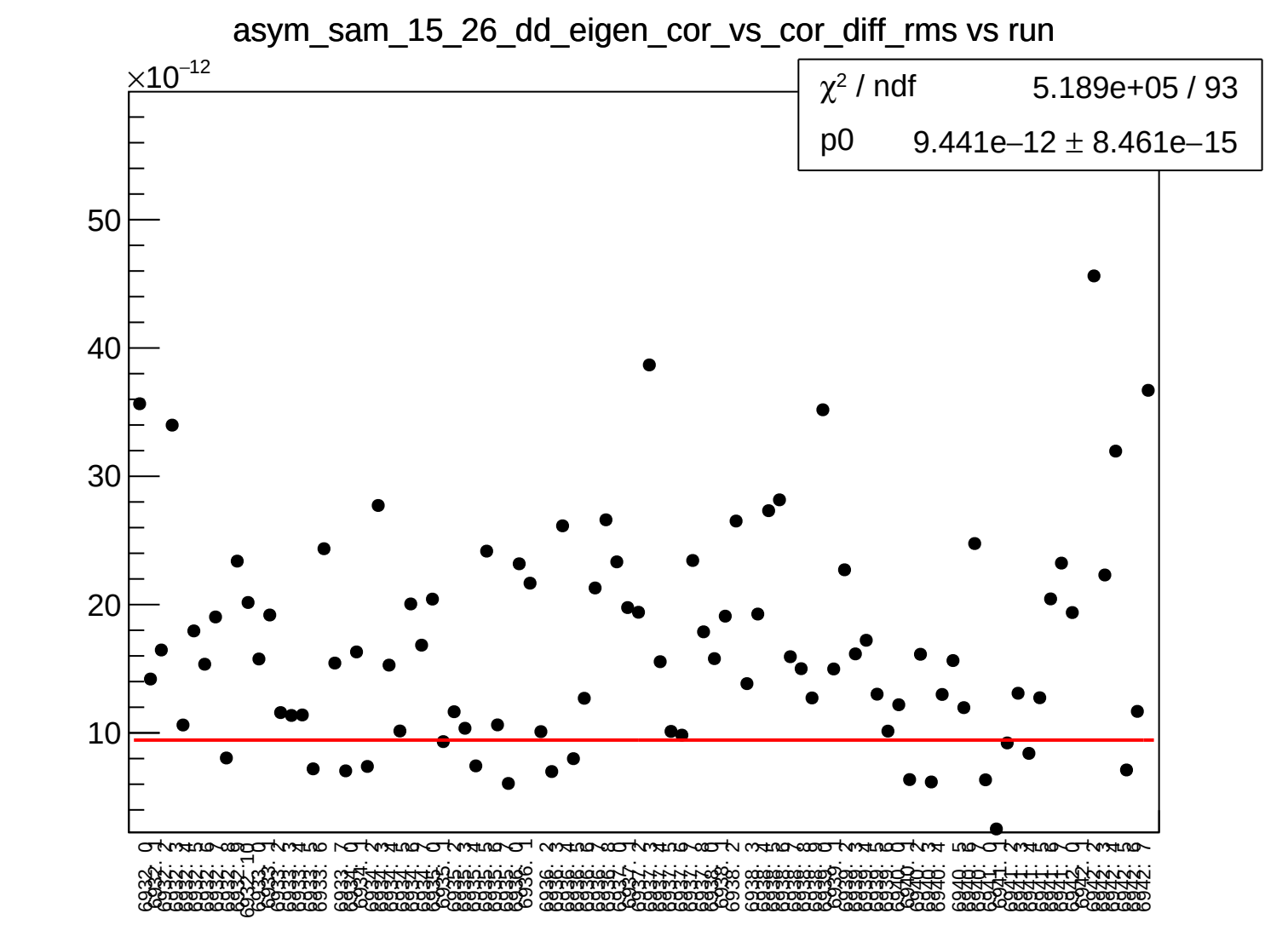

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.93 / 93
p0 −0.004006 ± 0.03754
pull
Entries 94
Mean 379
Std Dev 0

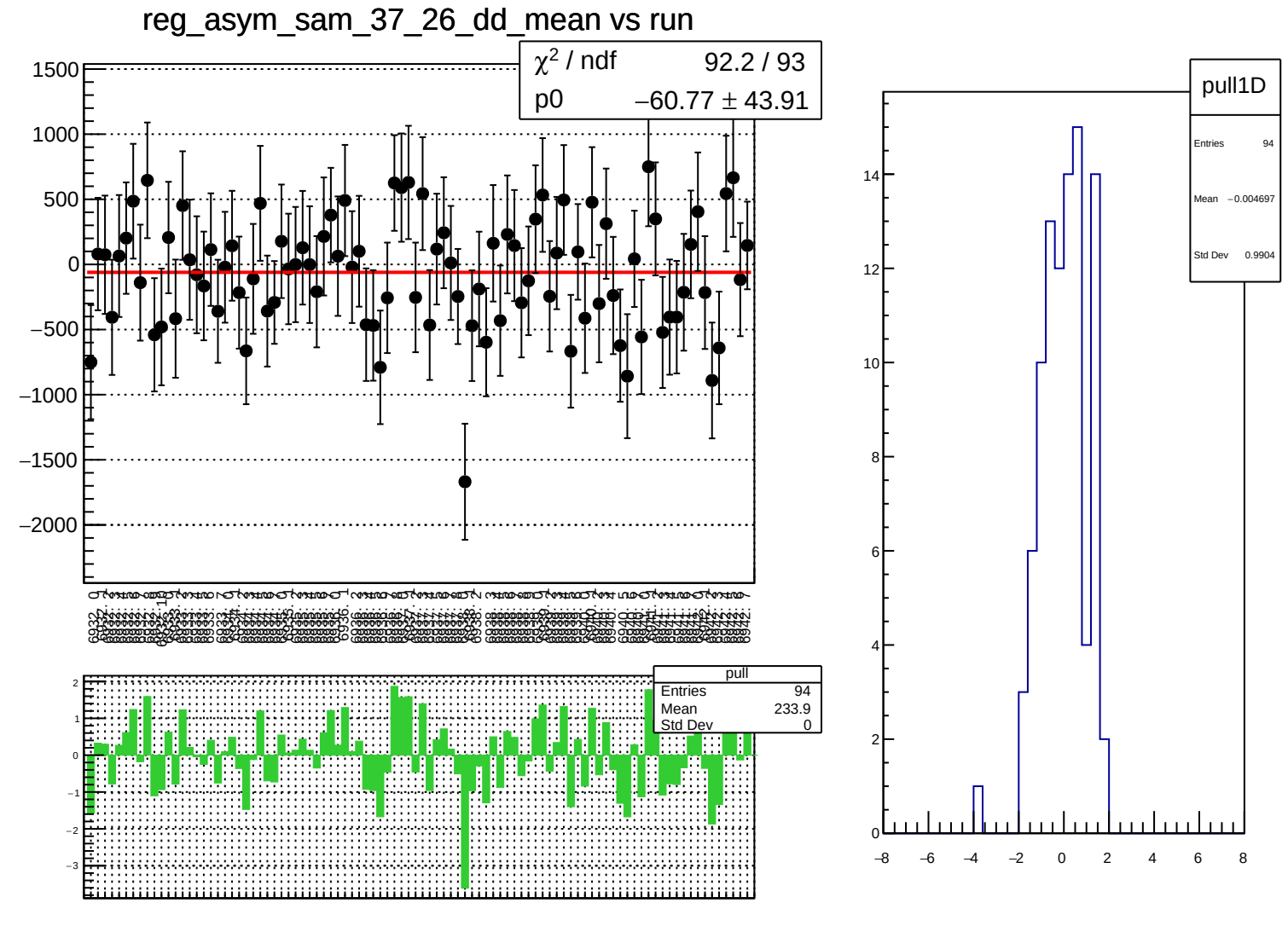

pull1D
Entries 94
Mean −0.01456
Std Dev 0.8986

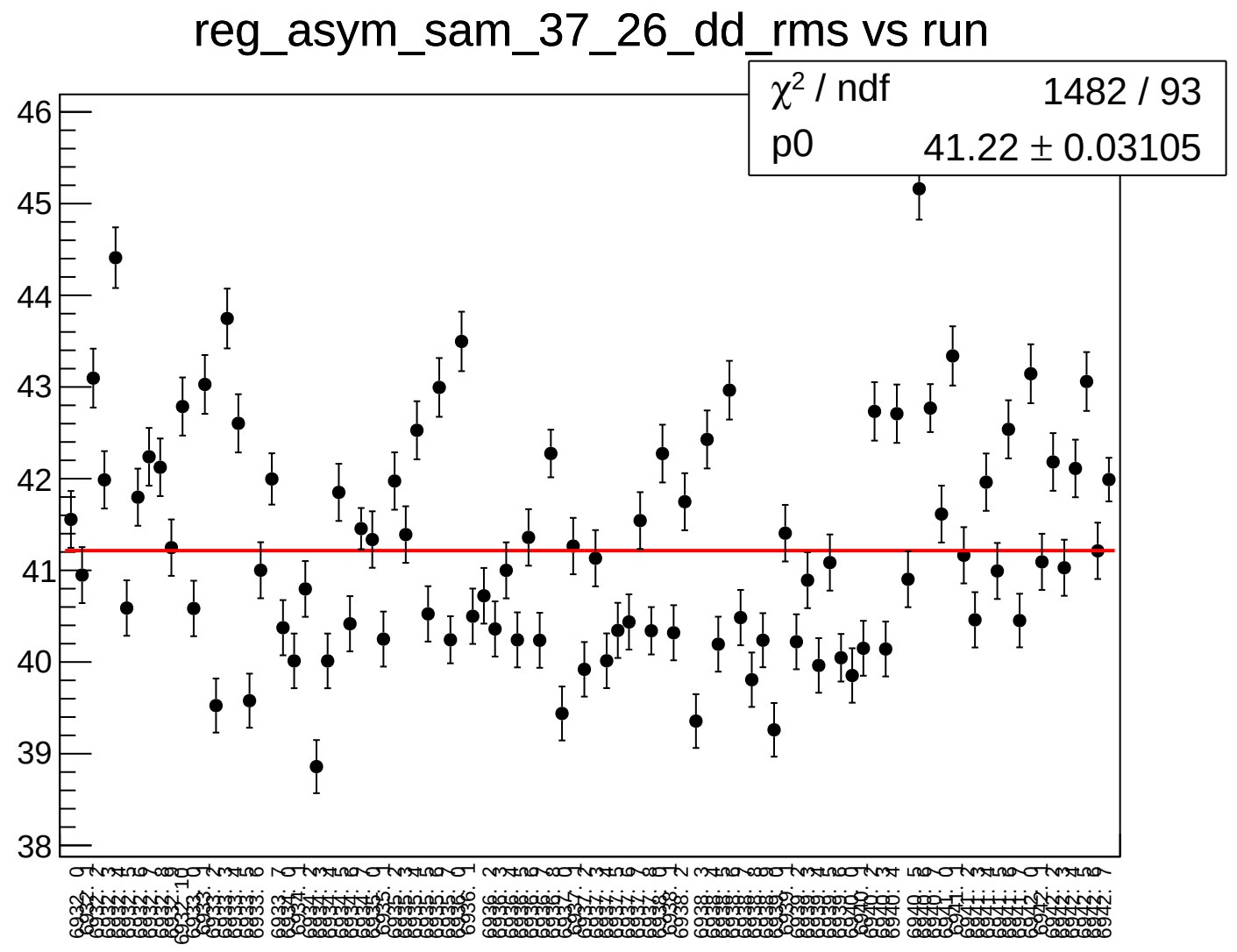

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3064 / 93
p0 35.22 ± 0.02654
40
39
38
37
36
35
34
33
32

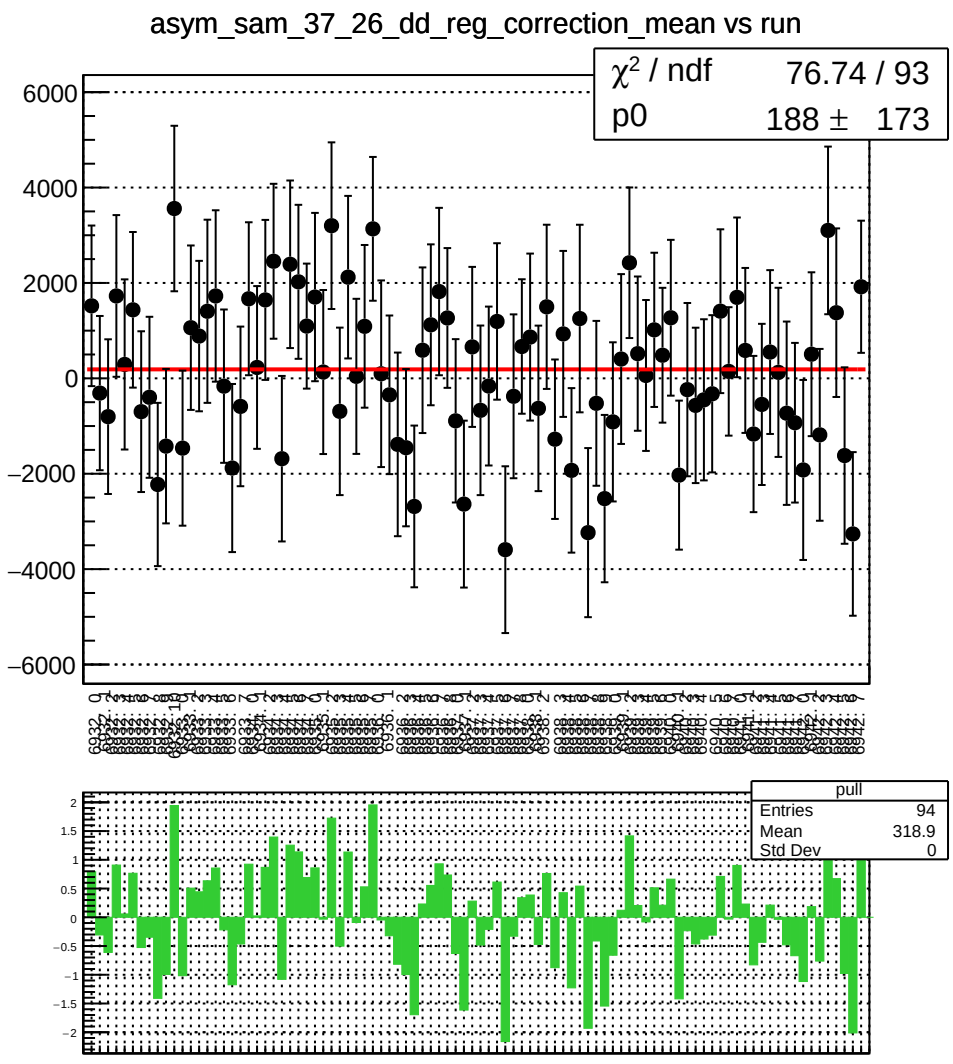

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.04 / 93
p0 2.916e−15 ± 1.197e−14
pull
Entries 94
Mean 21.53
Std Dev 16.7

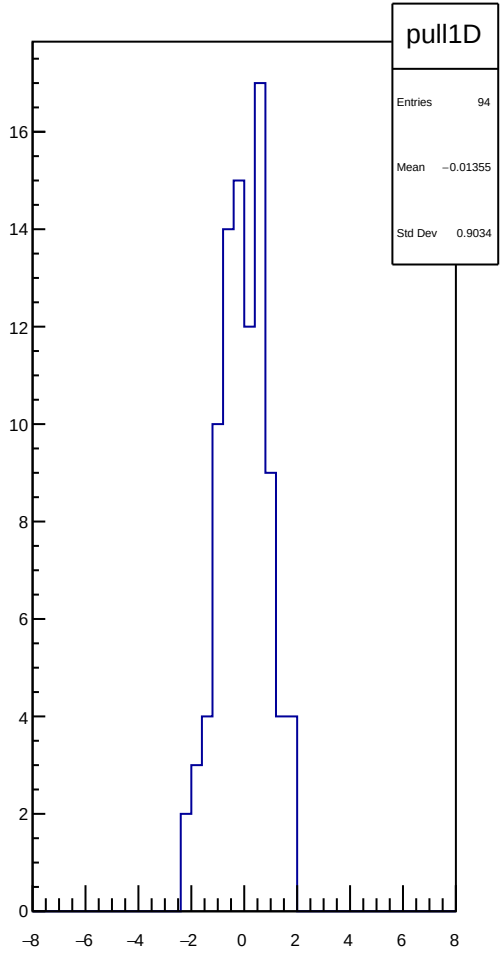

pull1D
Entries 94
Mean 0.05454
Std Dev 0.8737

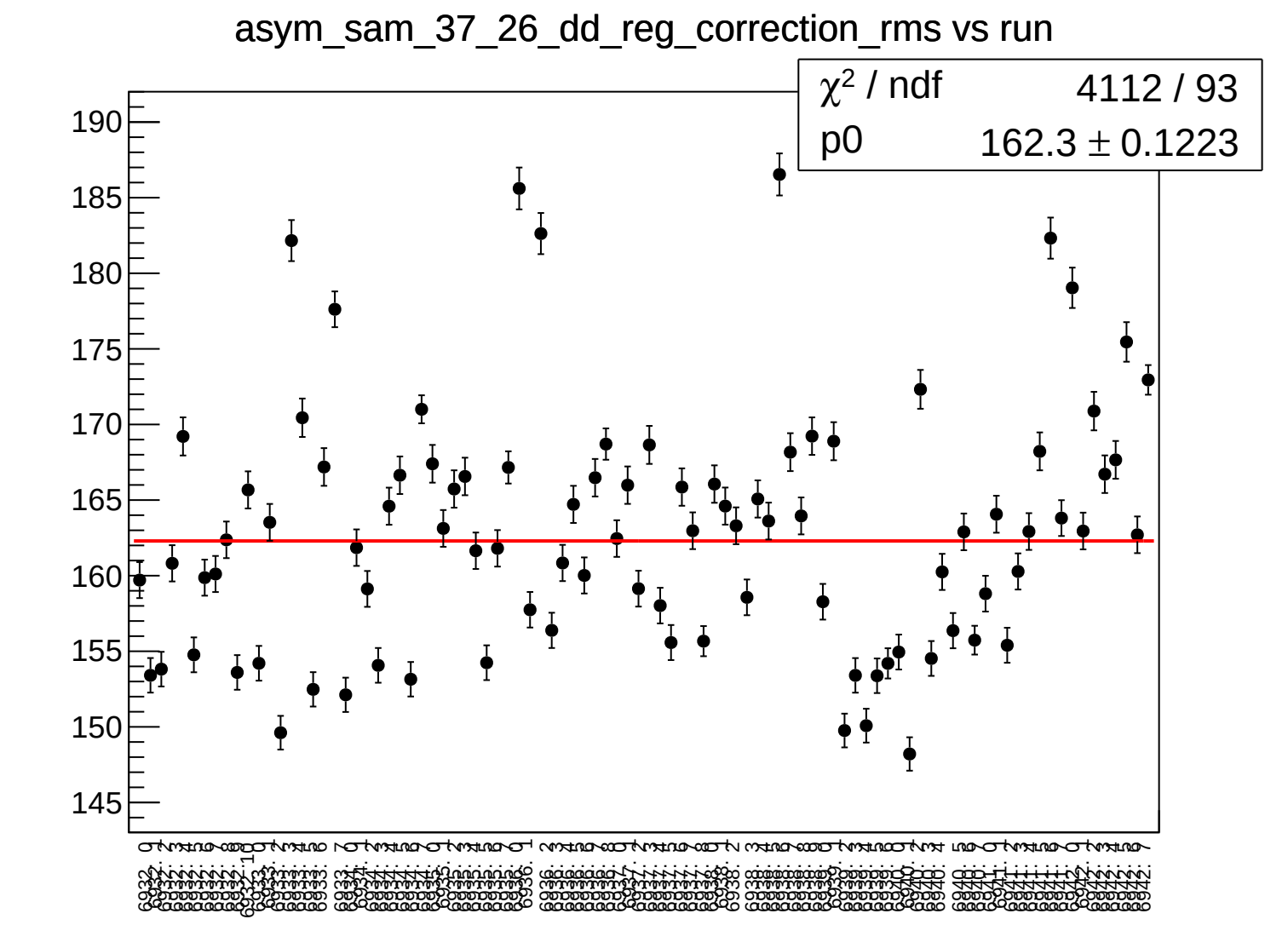

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.189e+05 / 93
p0 9.441e−12 ± 8.461e−15
50
40
30
20
10

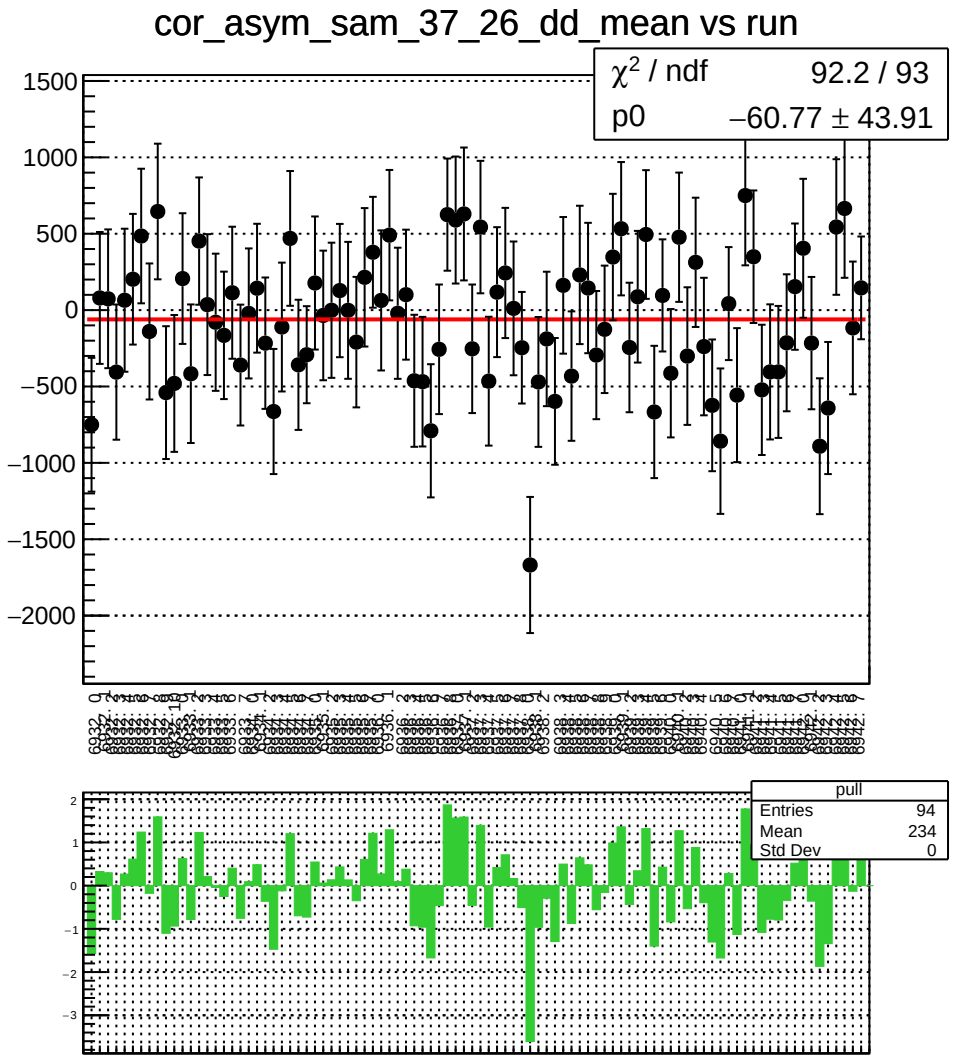

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.2 / 93
p0 −60.77 ± 43.91
pull
Entries 94
Mean 233.9
Std Dev 0
pull1D
Entries 94
Mean −0.004697
Std Dev 0.9904

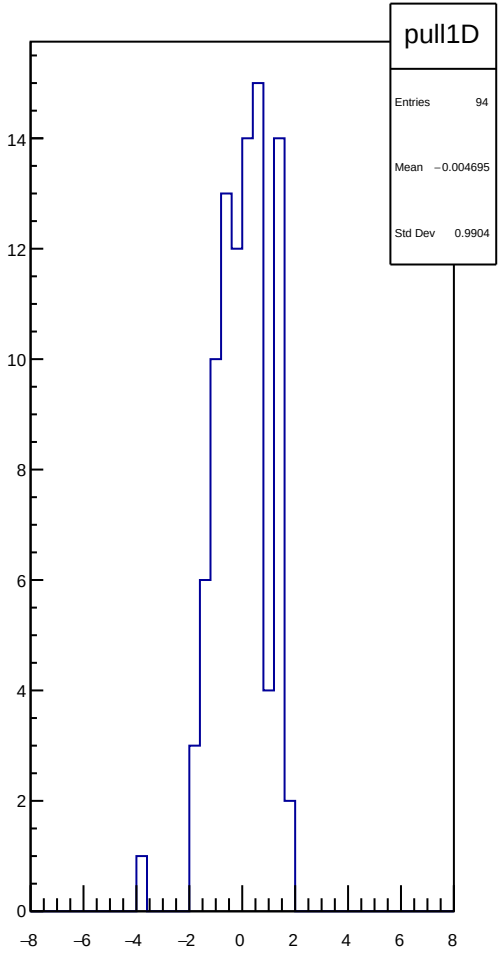

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1482 / 93
p0 41.22 ± 0.03105
46
45
44
43
42
41
40
39
38

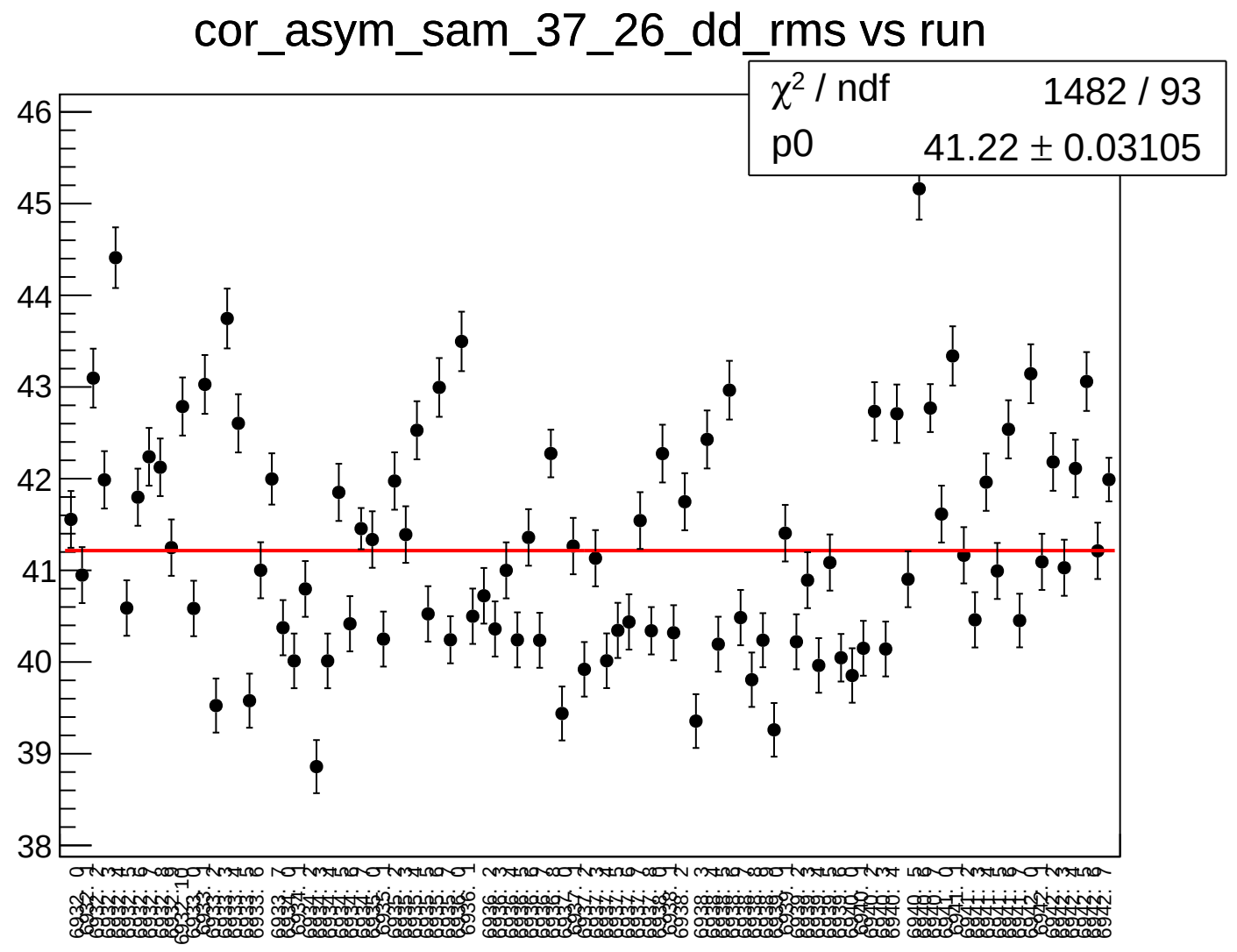

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 76.74 / 93
p0 188 ± 173
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 318.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

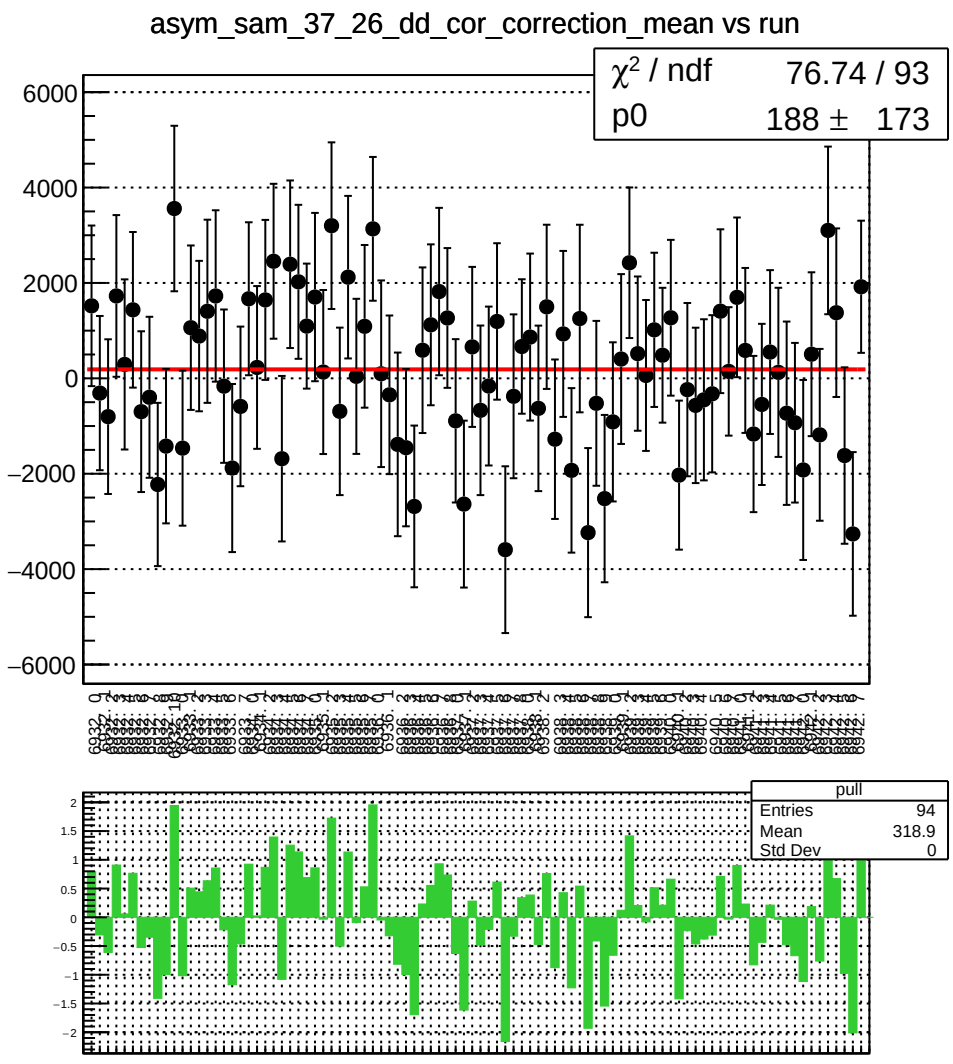

pull1D
Entries 94
Mean −0.01355
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

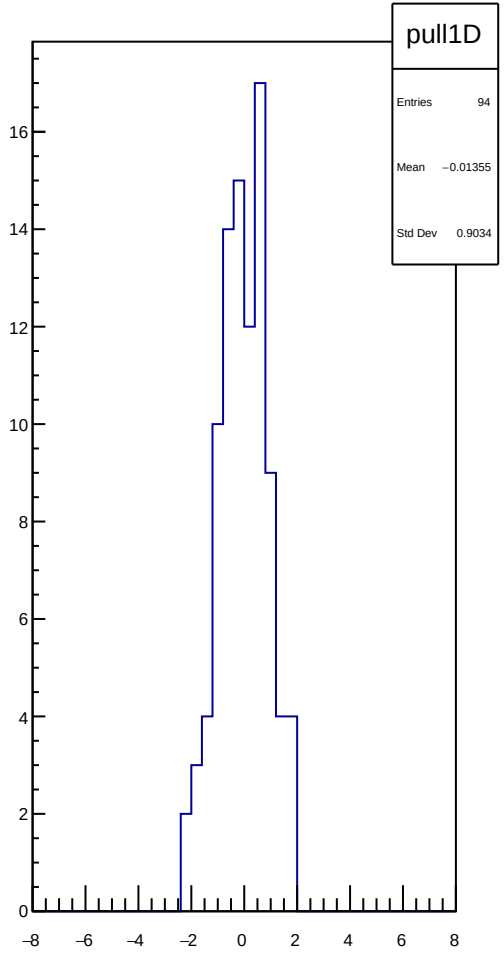

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4112 / 93
p0 162.3 ± 0.1223
190
185
180
175
170
165
160
155
150
145

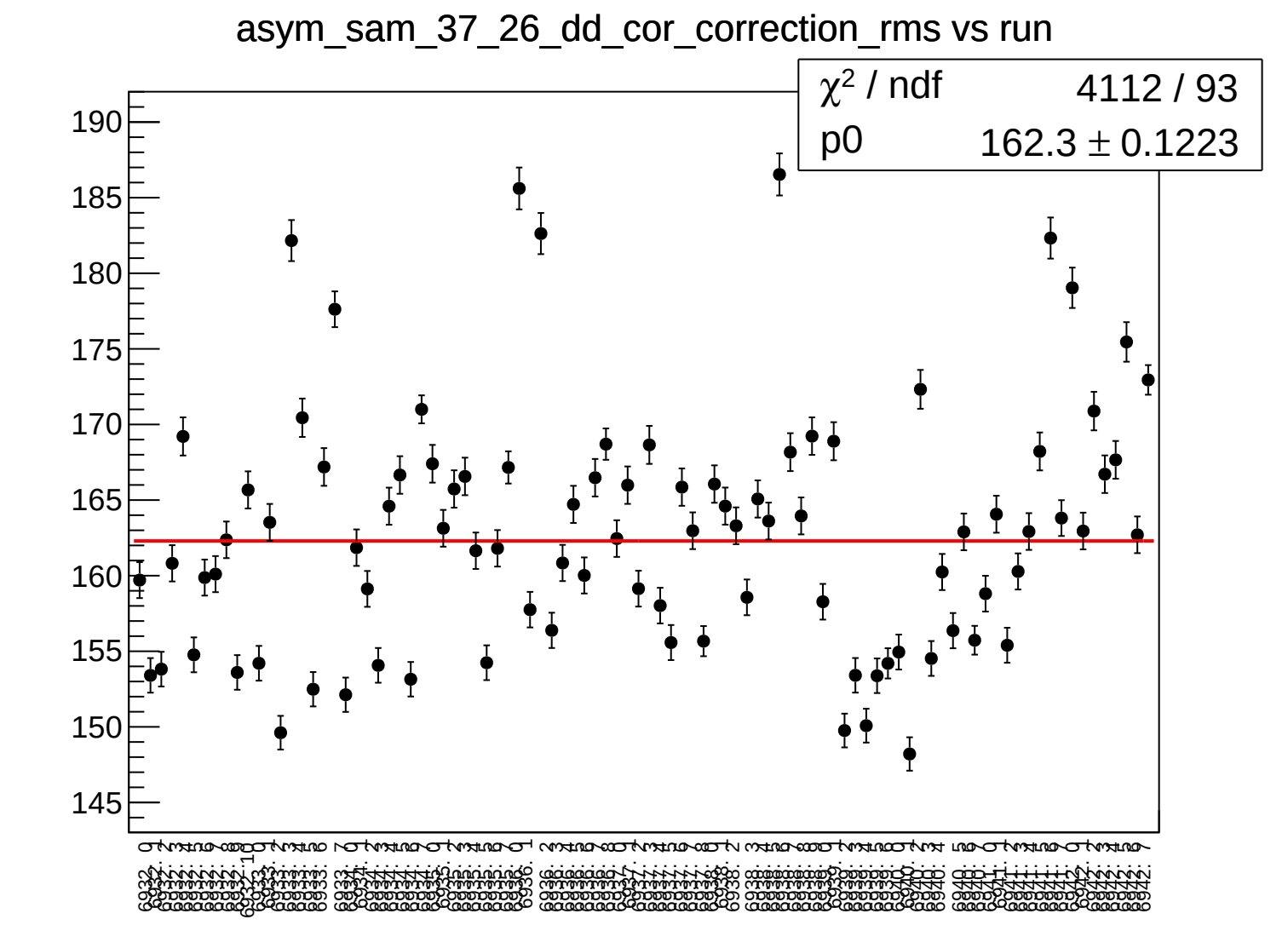

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.2 / 93
p0 −60.77 ± 43.91
pull
Entries 94
Mean 234
Std Dev 0

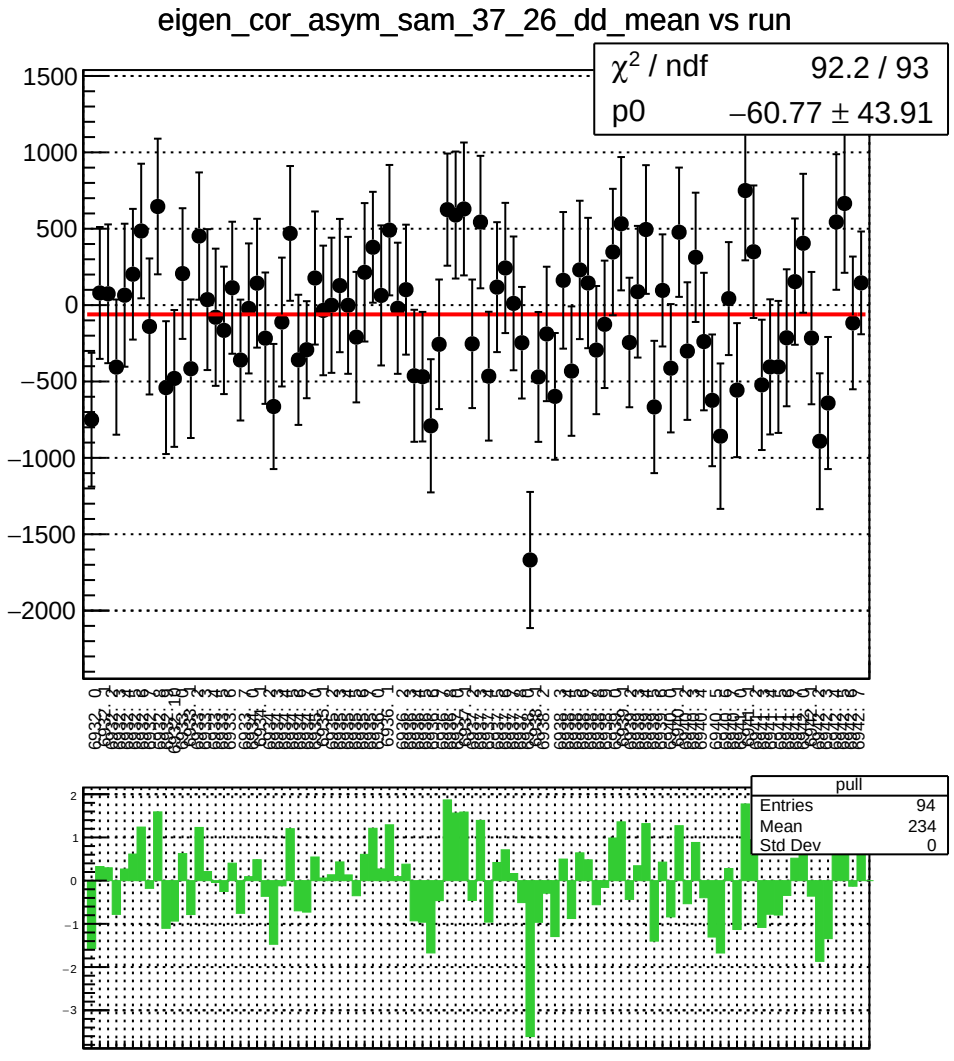

pull1D
Entries 94
Mean −0.004695
Std Dev 0.9904

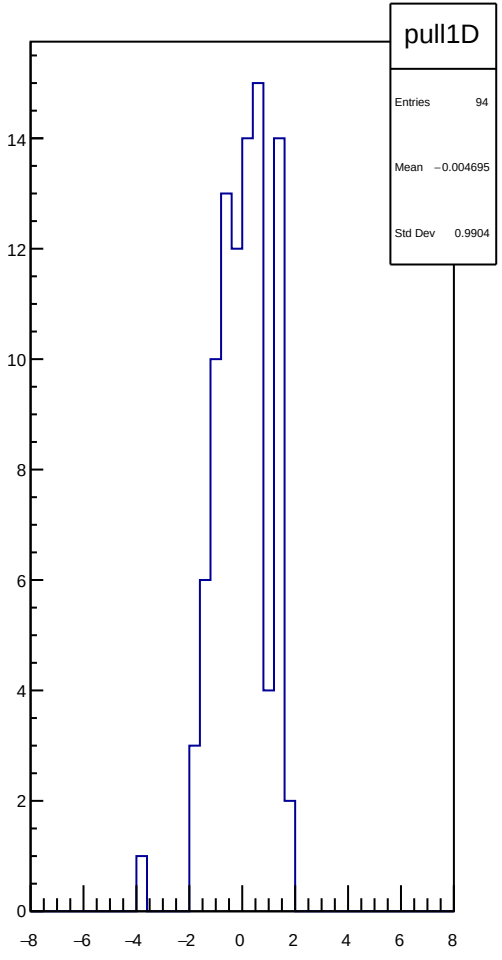

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1482 / 93
p0 41.22 ± 0.03105
46
45
44
43
42
41
40
39
38

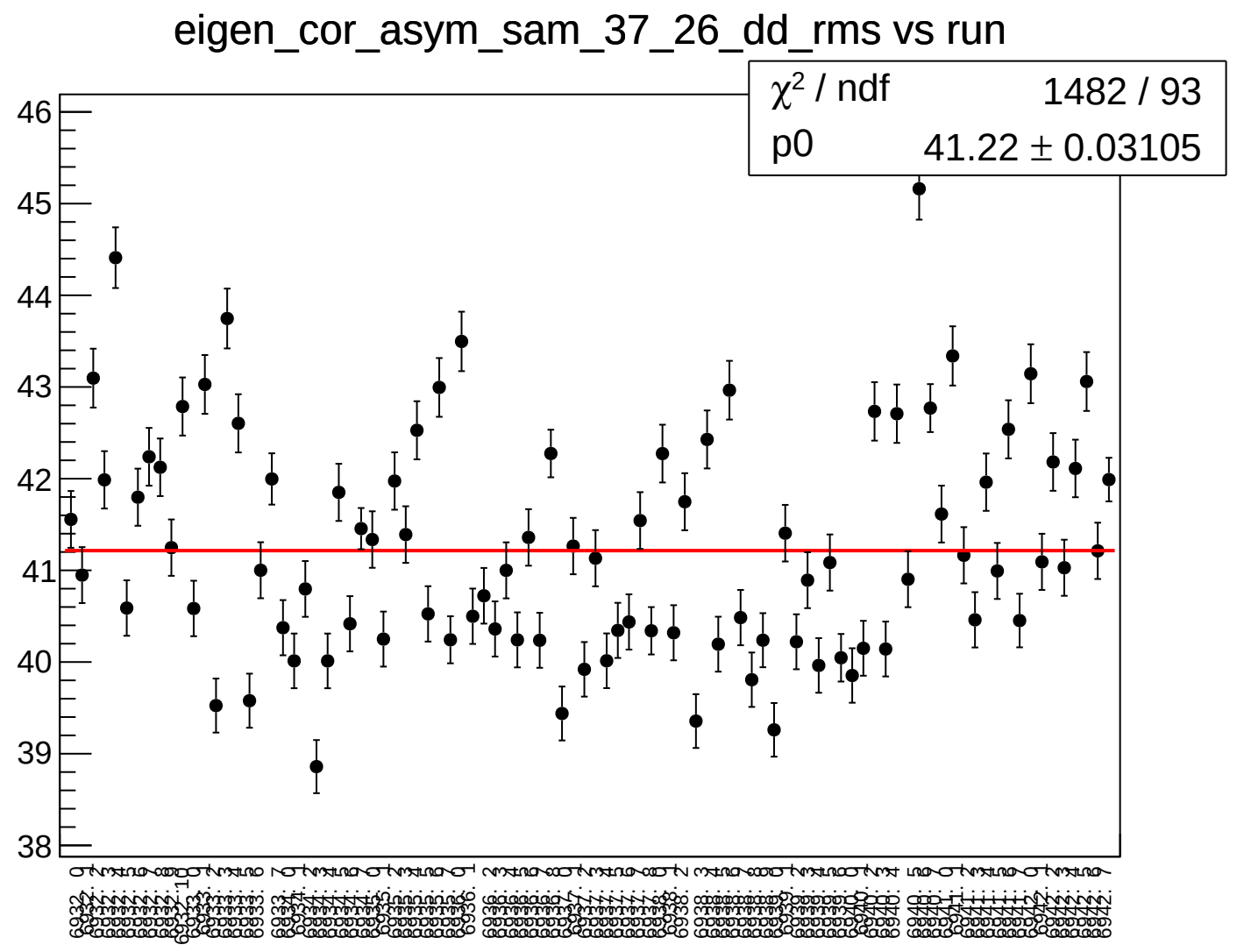

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 76.74 / 93
p0 188 ± 173
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 318.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

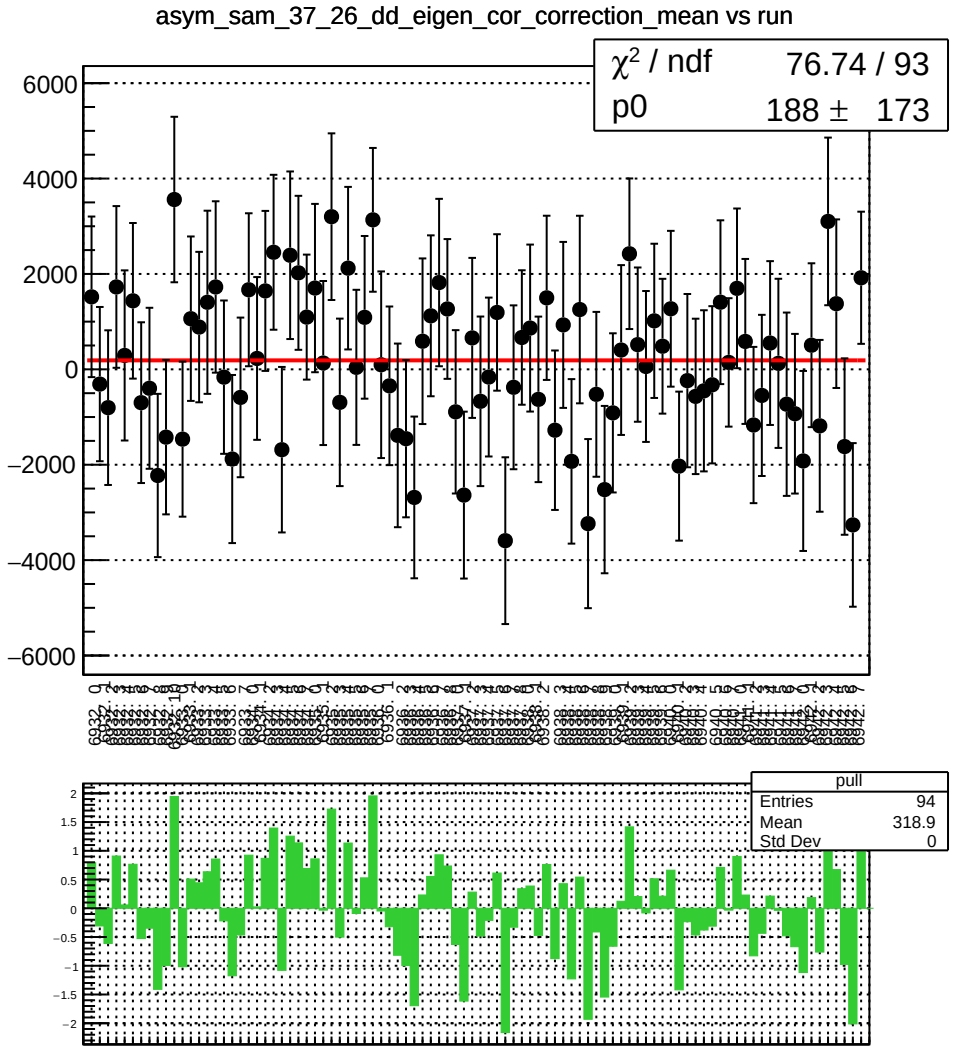

pull1D
Entries 94
Mean −0.01355
Std Dev 0.9034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

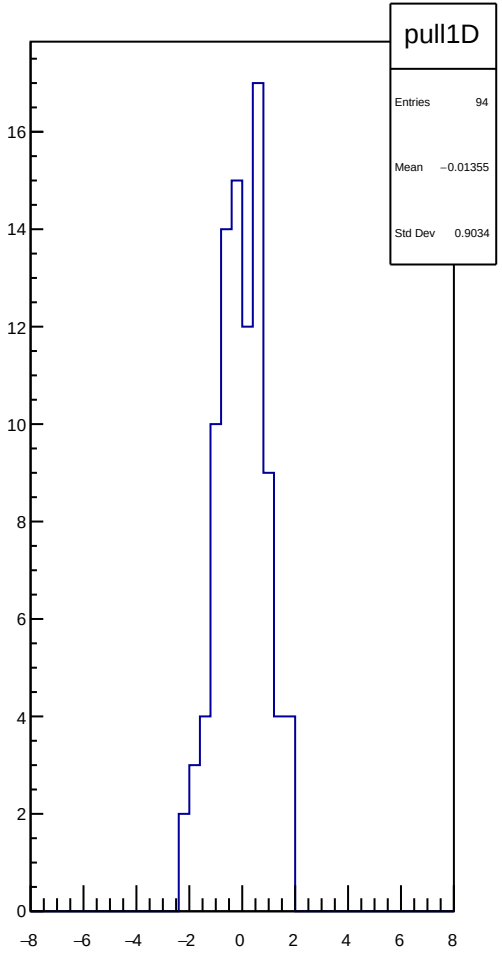

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4112 / 93
p0 162.3 ± 0.1223
190
185
180
175
170
165
160
155
150
145

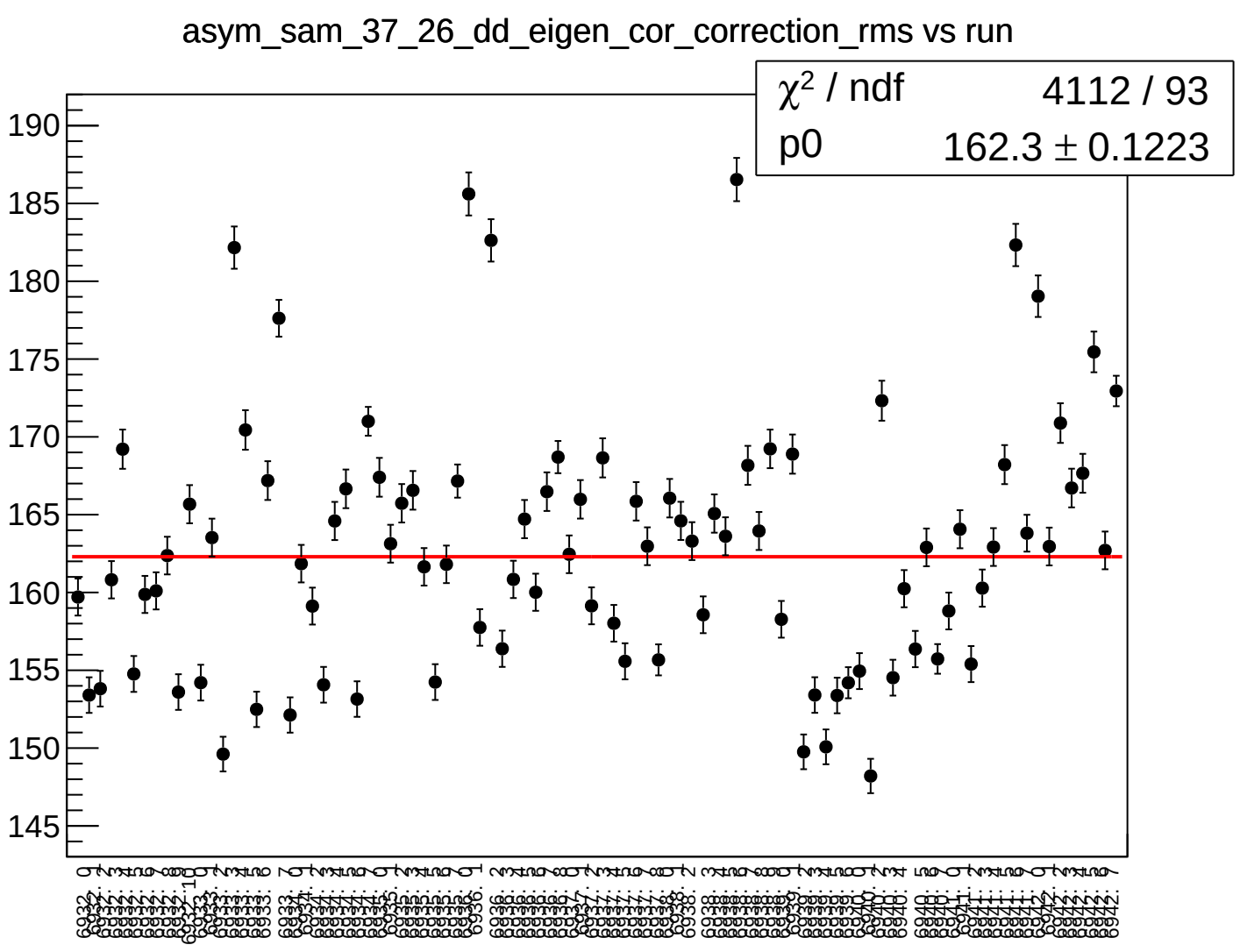

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.2 / 93
p0 −60.77 ± 43.91
pull
Entries 94
Mean 234
Std Dev 0

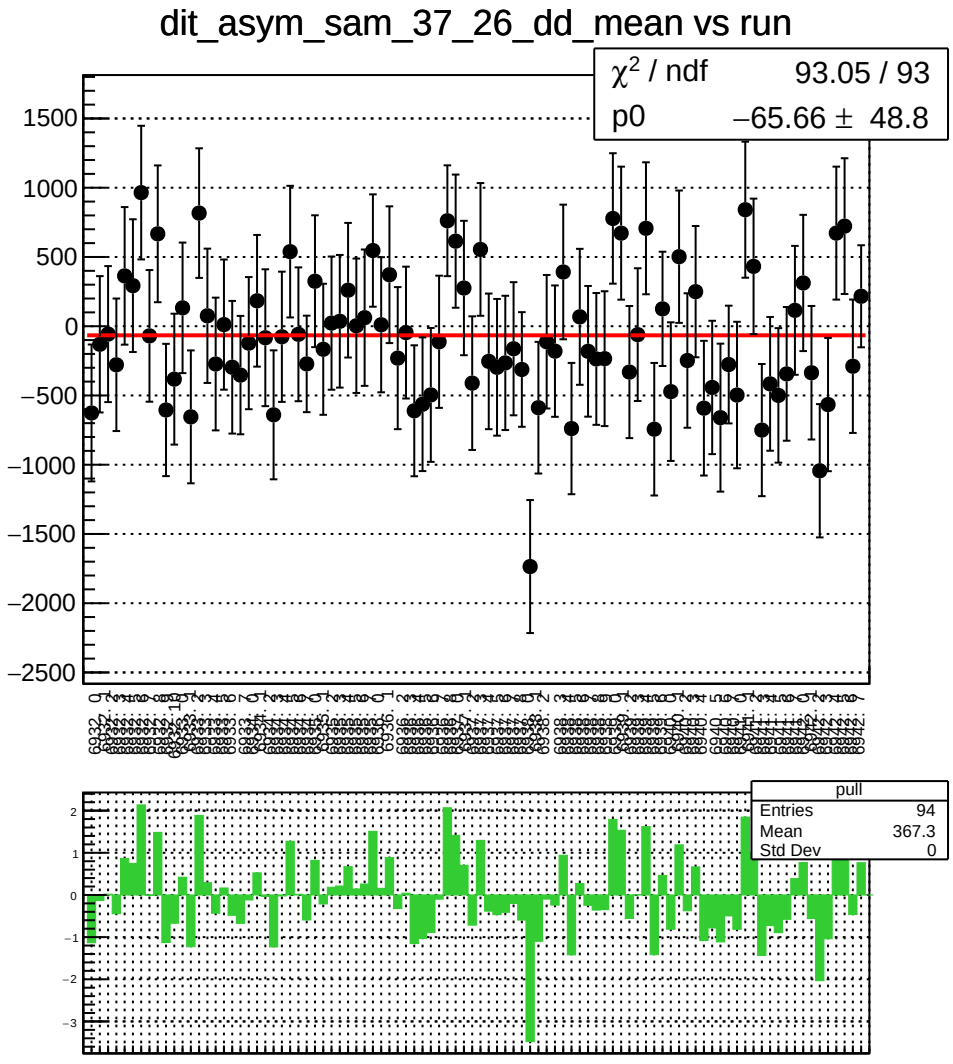

pull1D
Entries 94
Mean −0.004695
Std Dev 0.9904

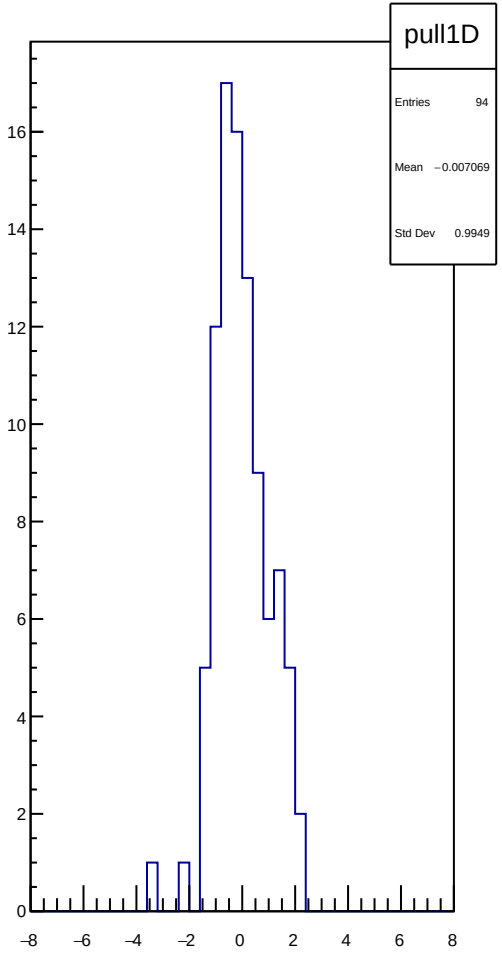

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1482 / 93
p0 41.22 ± 0.03105
46
45
44
43
42
41
40
39
38

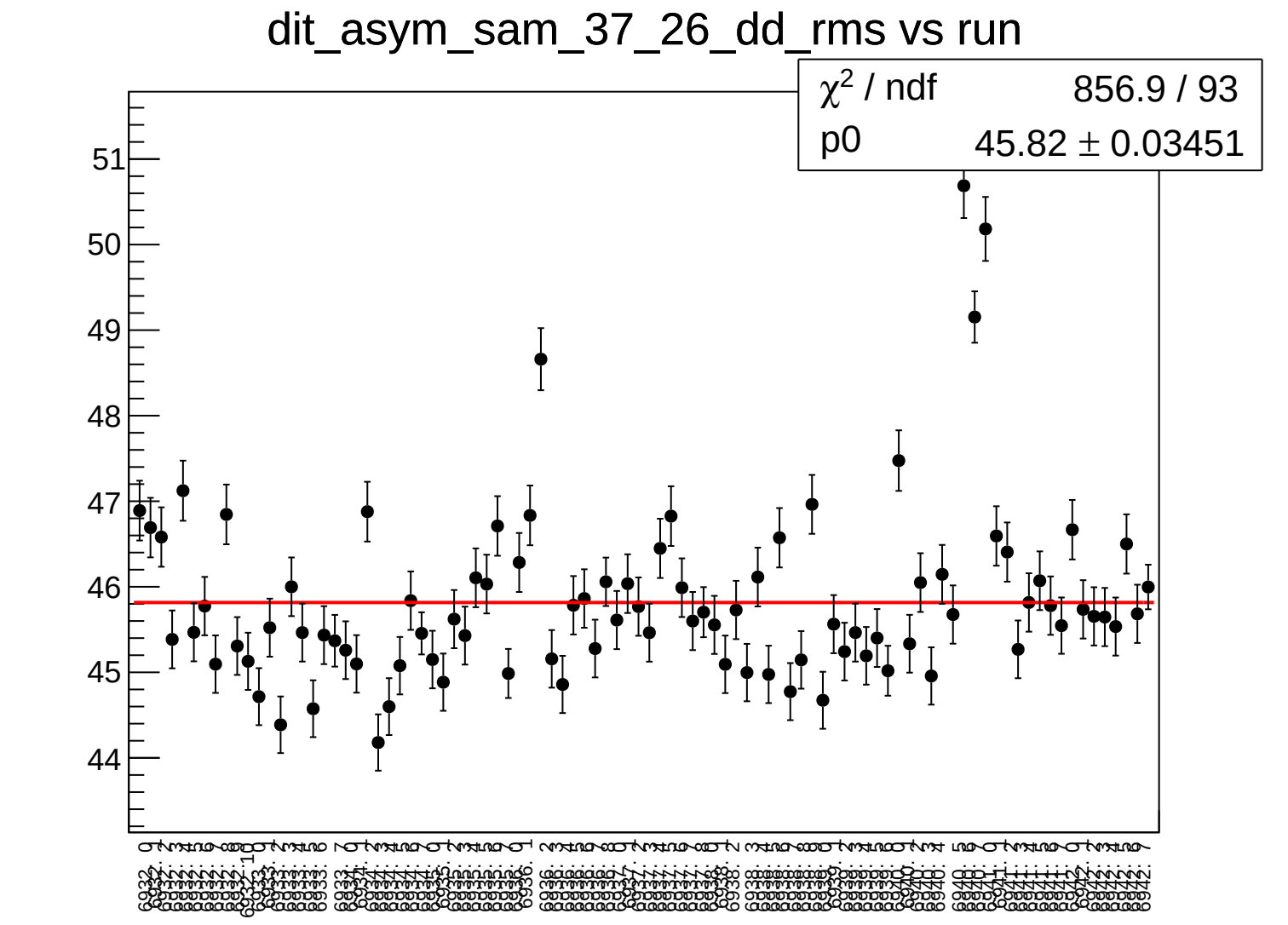

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.74 / 93
p0 188 ± 173
pull
Entries 94
Mean 318.9
Std Dev 0

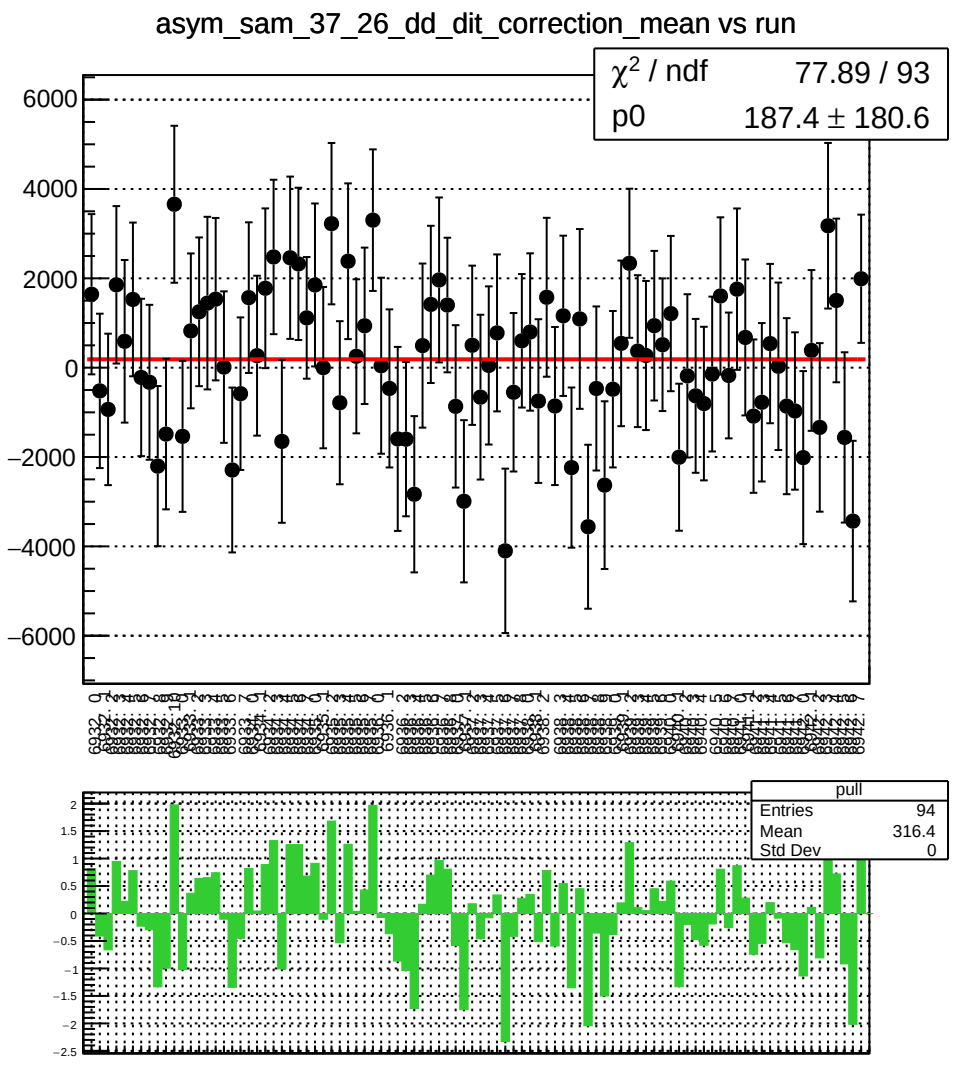

pull1D
Entries 94
Mean −0.01355
Std Dev 0.9034

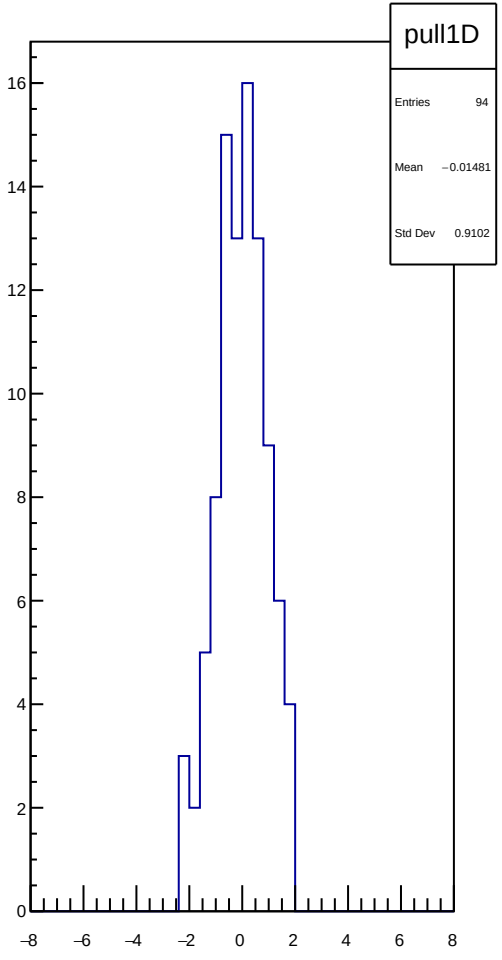

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4112 / 93
p0 162.3 ± 0.1223
190
185
180
175
170
165
160
155
150
145

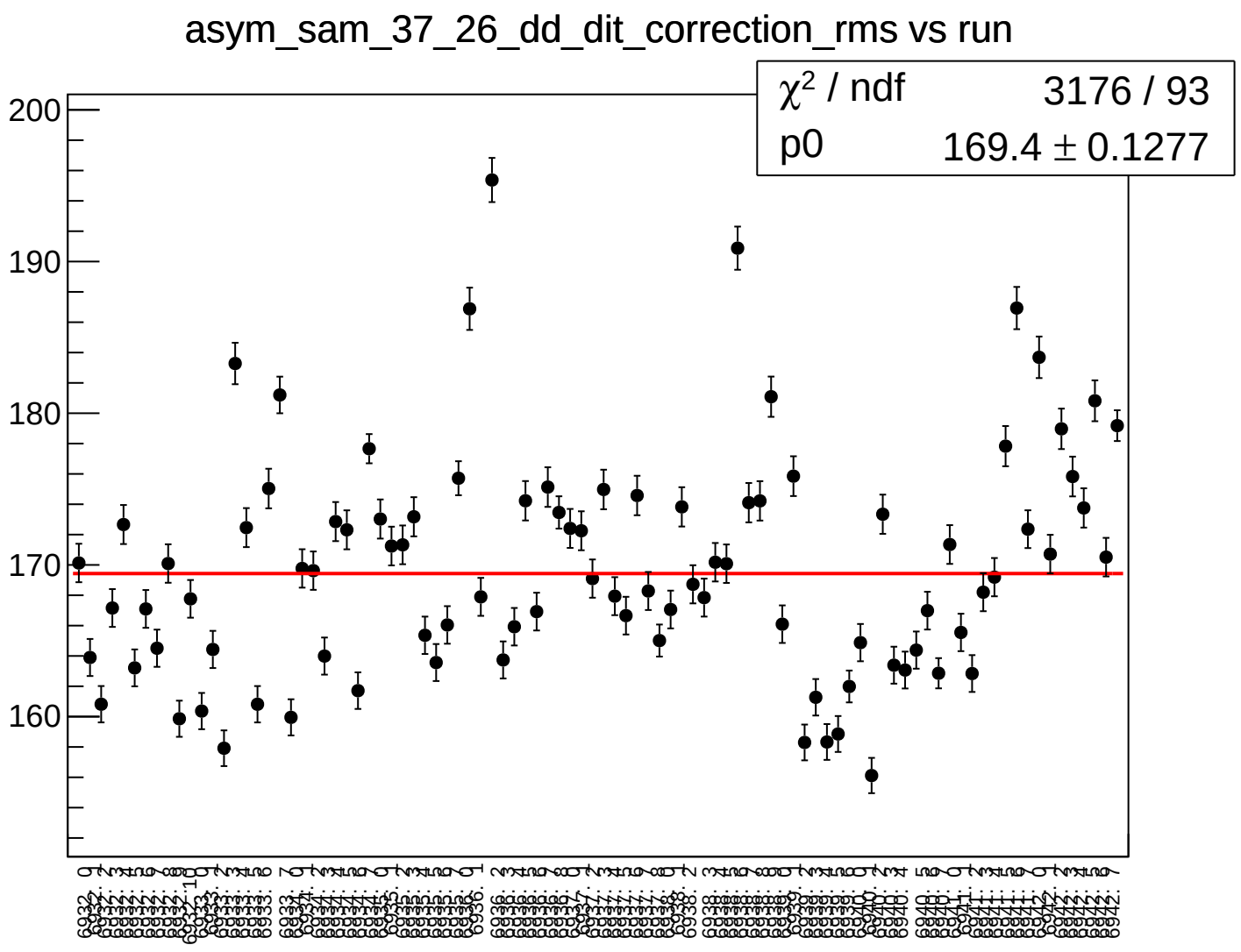

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.05 / 93
p0 −65.66 ± 48.8
pull
Entries 94
Mean 367.3
Std Dev 0

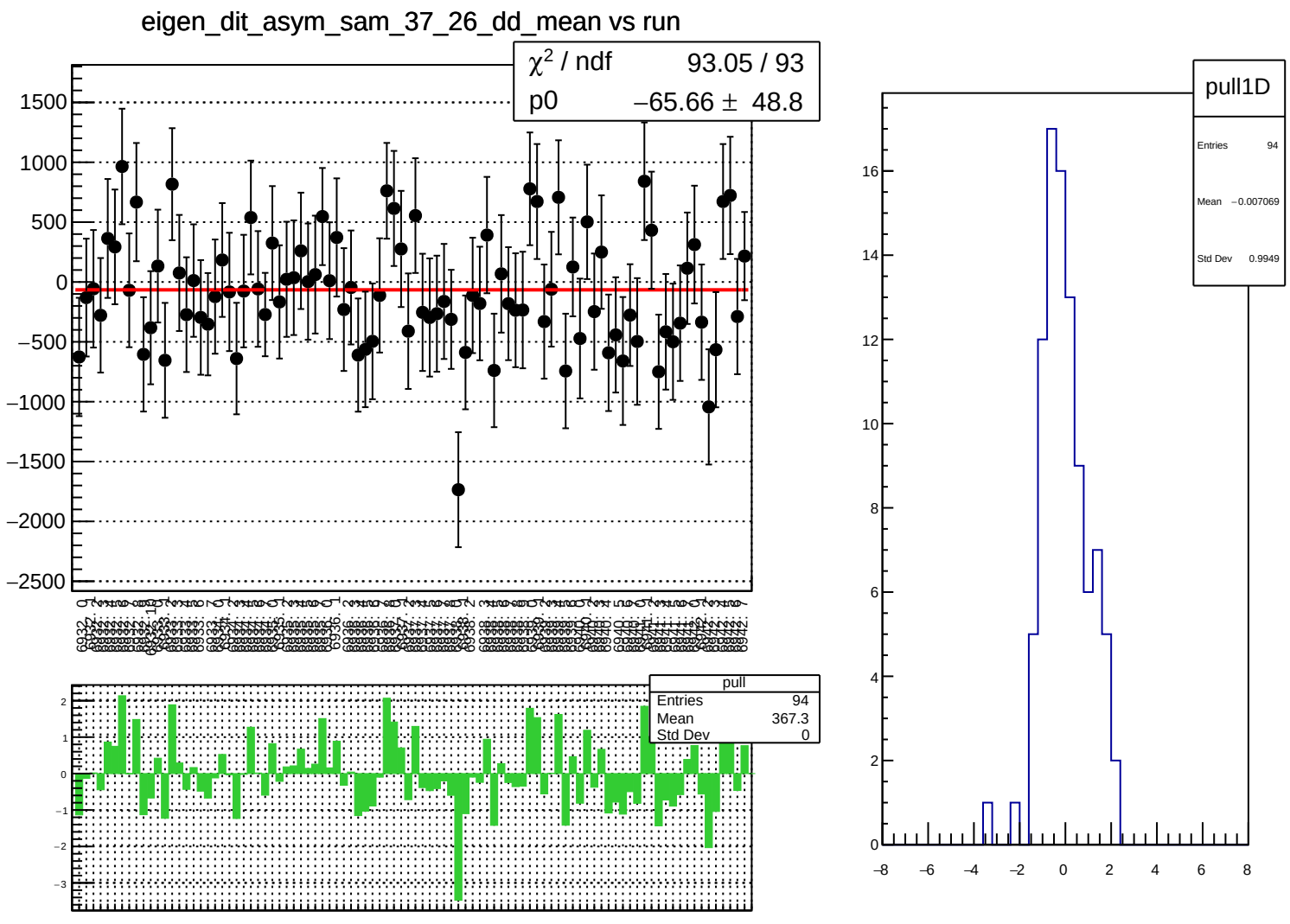

pull1D
Entries 94
Mean −0.007069
Std Dev 0.9949

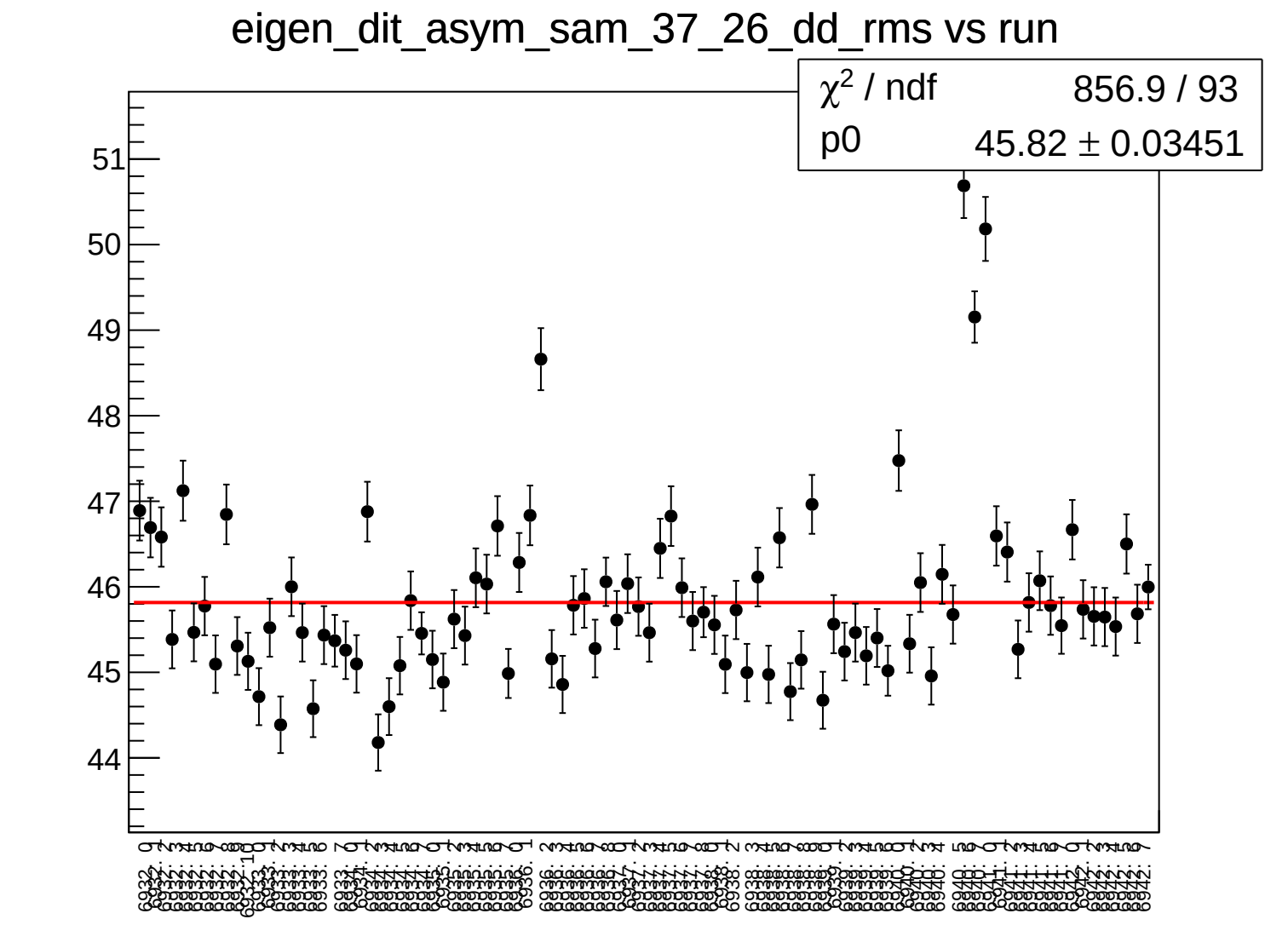

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 856.9 / 93
p0 45.82 ± 0.03451
51
50
49
48
47
46
45
44

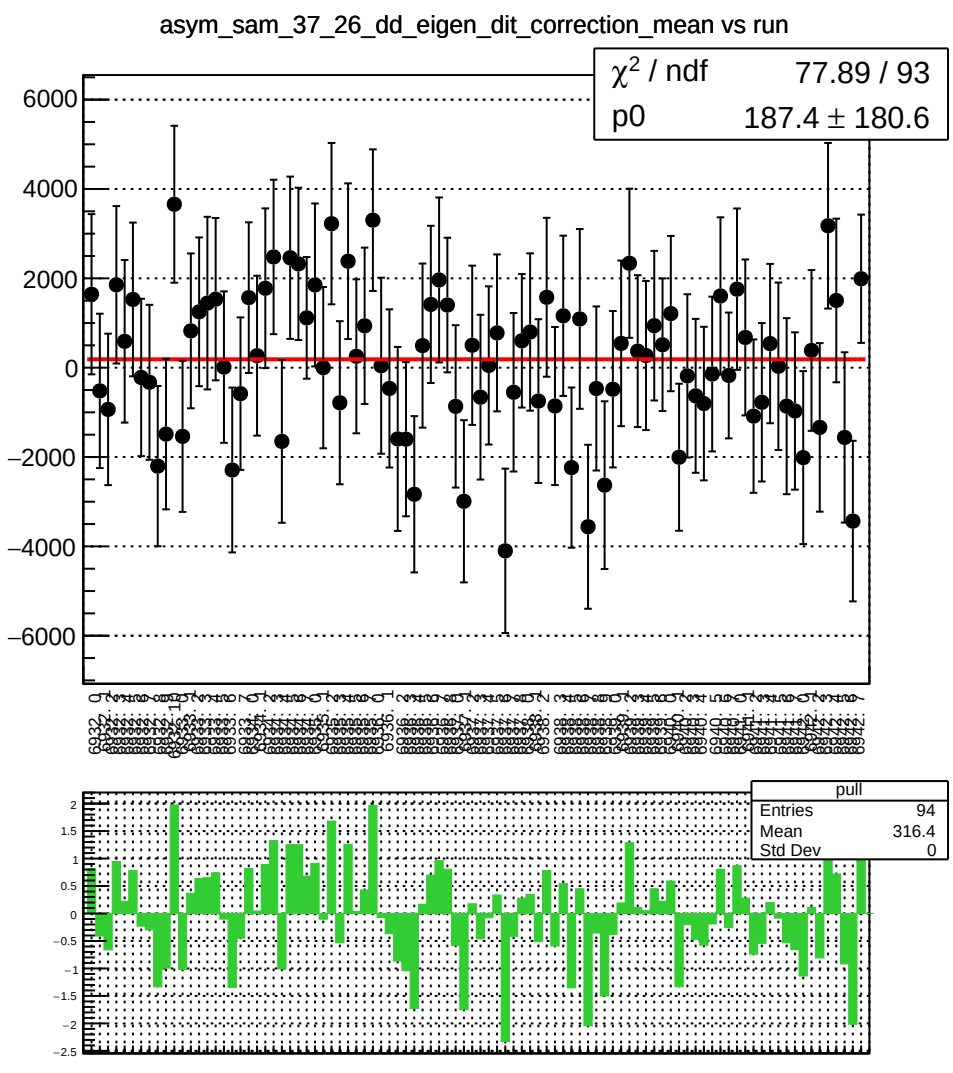

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 77.89 / 93
p0 187.4 ± 180.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 316.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

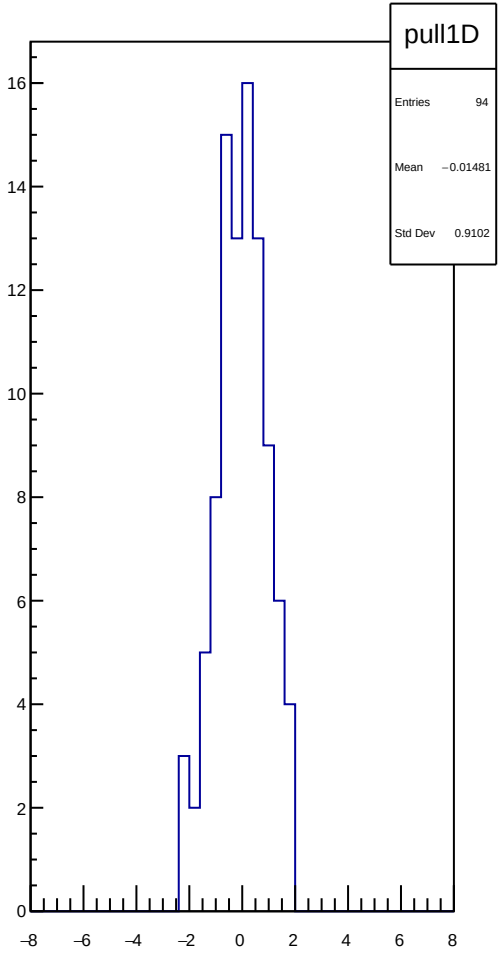

pull1D
Entries 94
Mean −0.01481
Std Dev 0.9102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

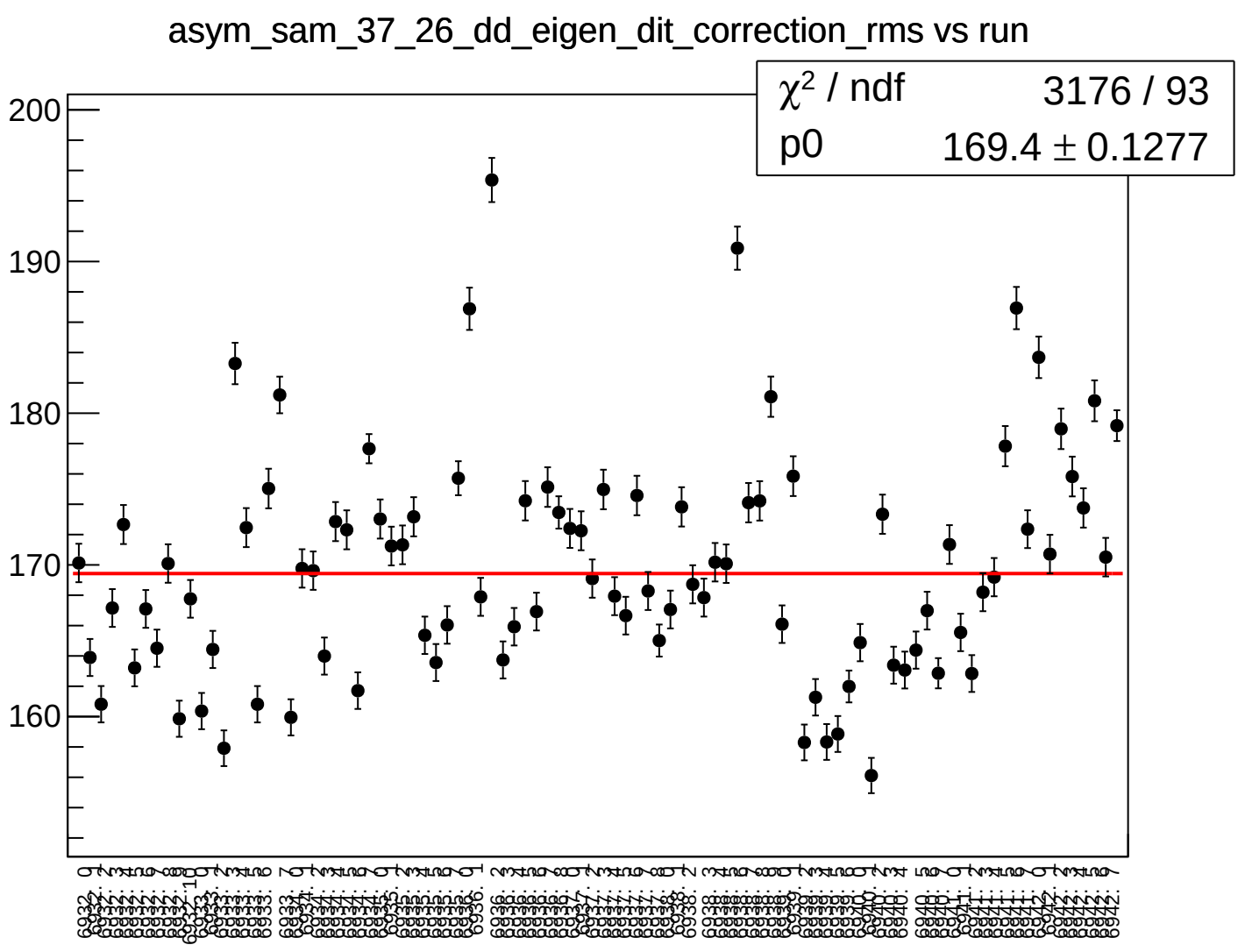

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3176 / 93
p0 169.4 ± 0.1277
200
190
180
170
160

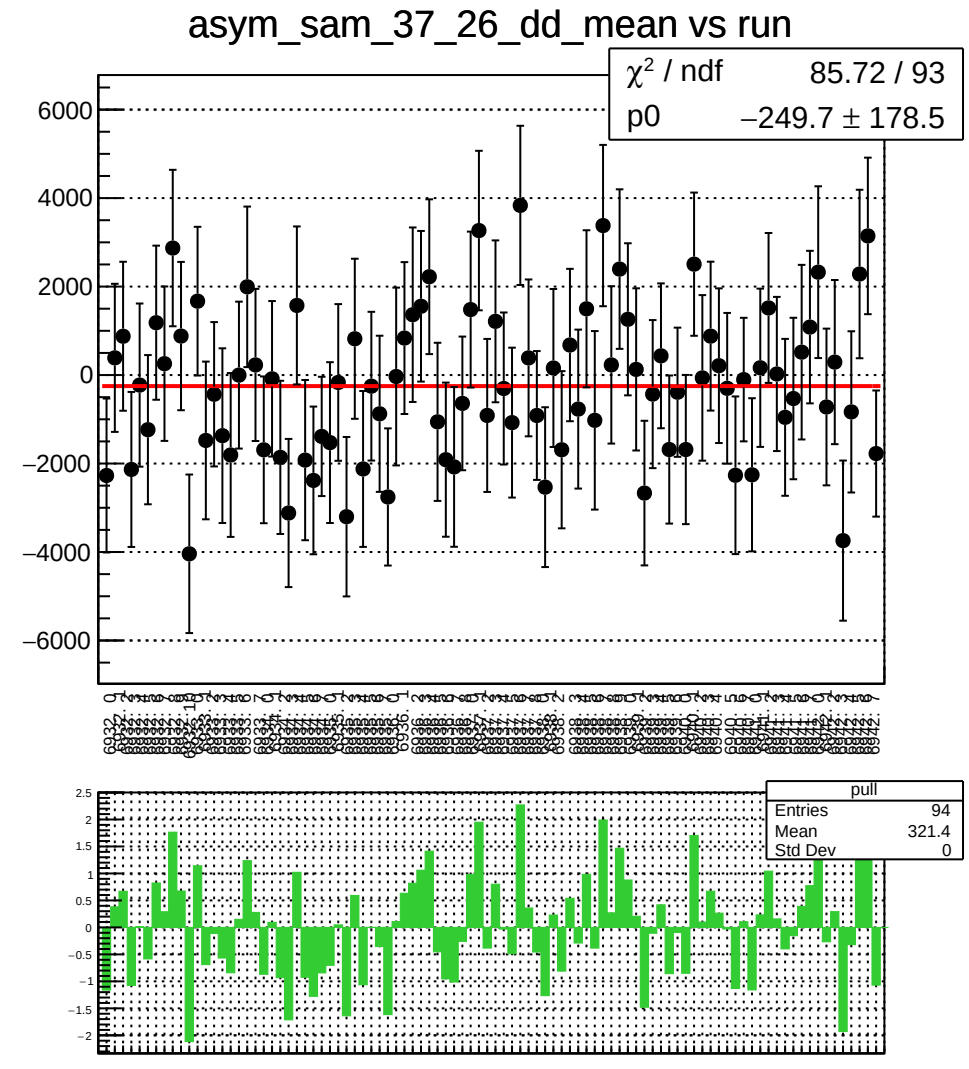

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 93.05 / 93
p0 −65.66 ± 48.8
pull
Entries 94
Mean 367.3
Std Dev 0
pull1D
Entries 94
Mean −0.007069
Std Dev 0.9949

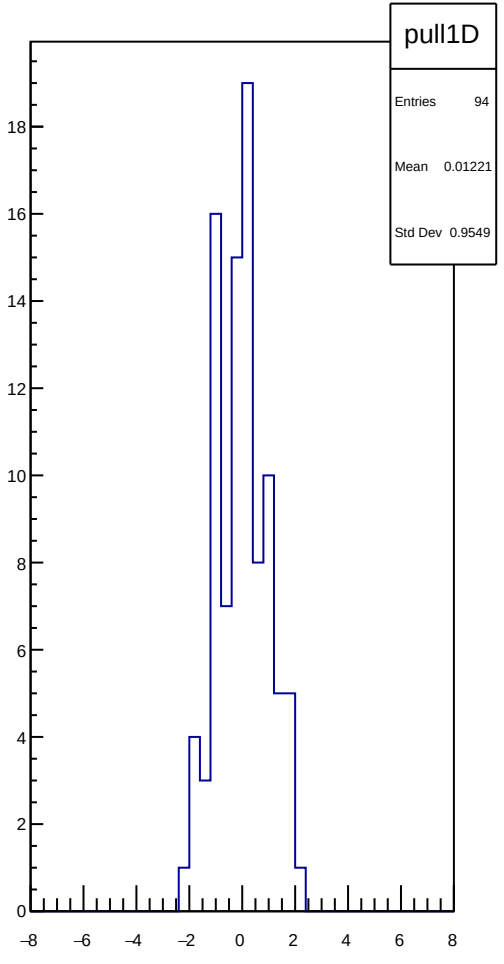

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 856.9 / 93
p0 45.82 ± 0.03451
51
50
49
48
47
46
45
44

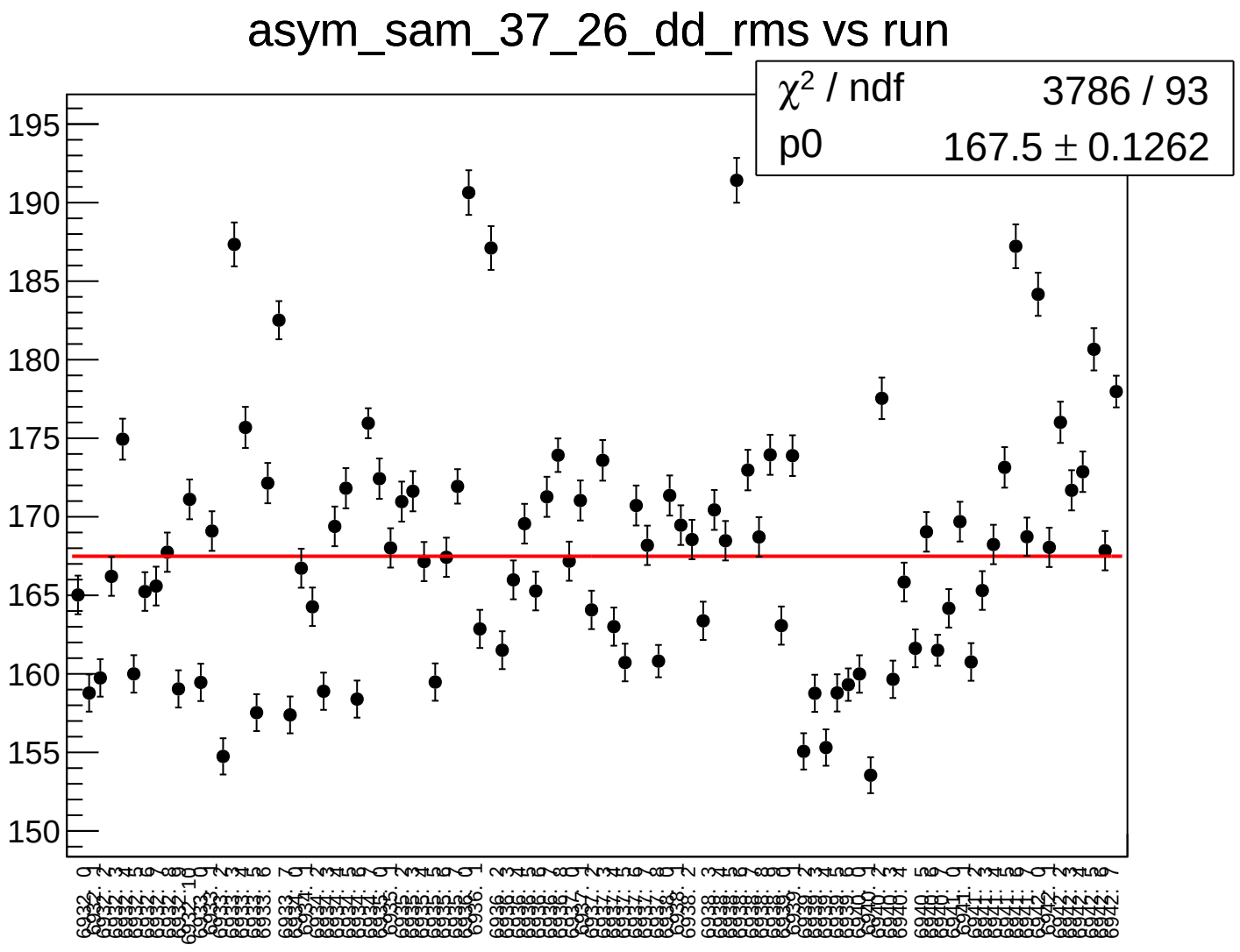

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ^2 / ndf 77.89 / 93
p0 187.4 ± 180.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 316.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

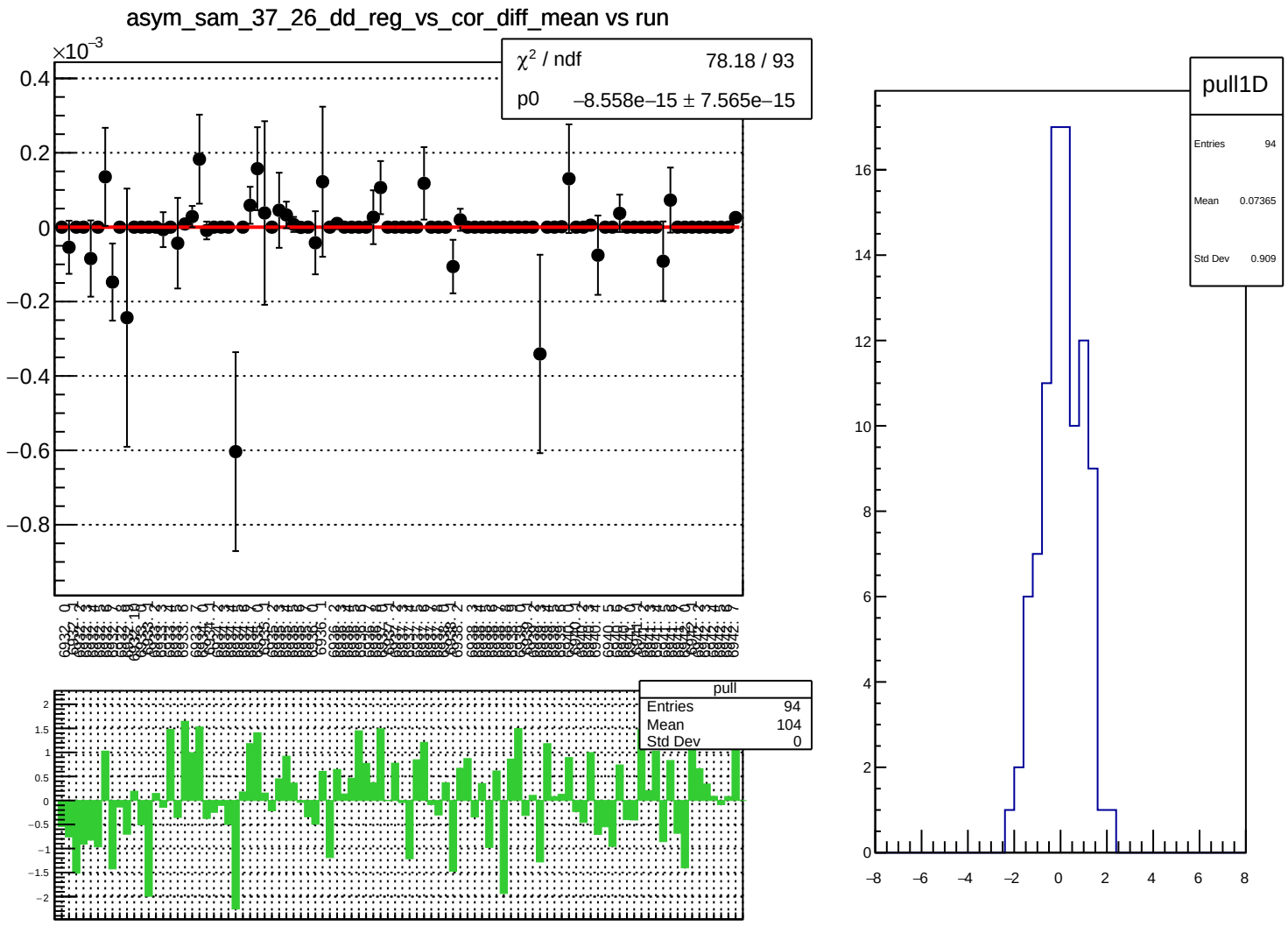

pull1D
Entries 94
Mean −0.01481
Std Dev 0.9102
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

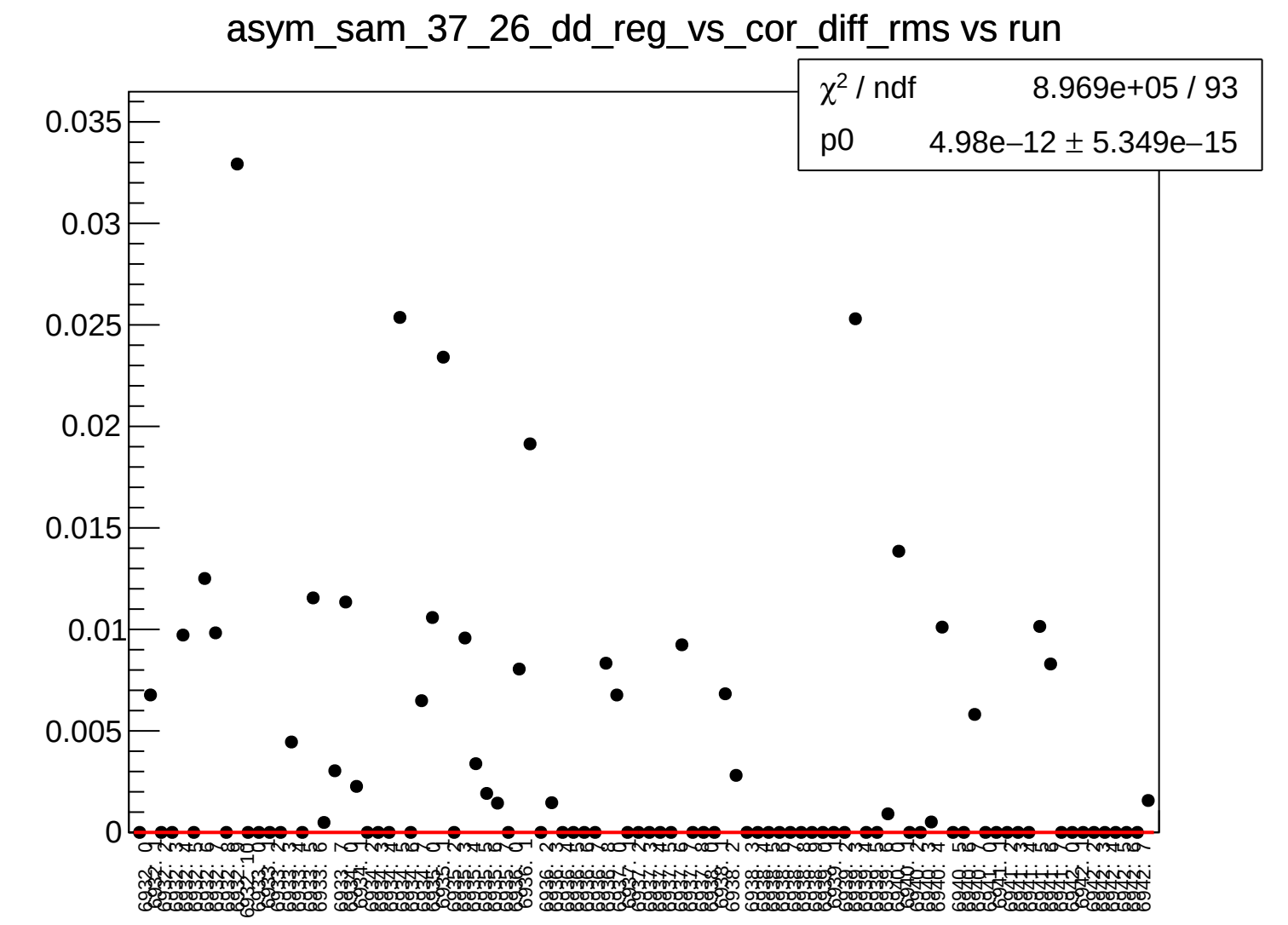

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3176 / 93
p0 169.4 ± 0.1277
200
190
180
170
160

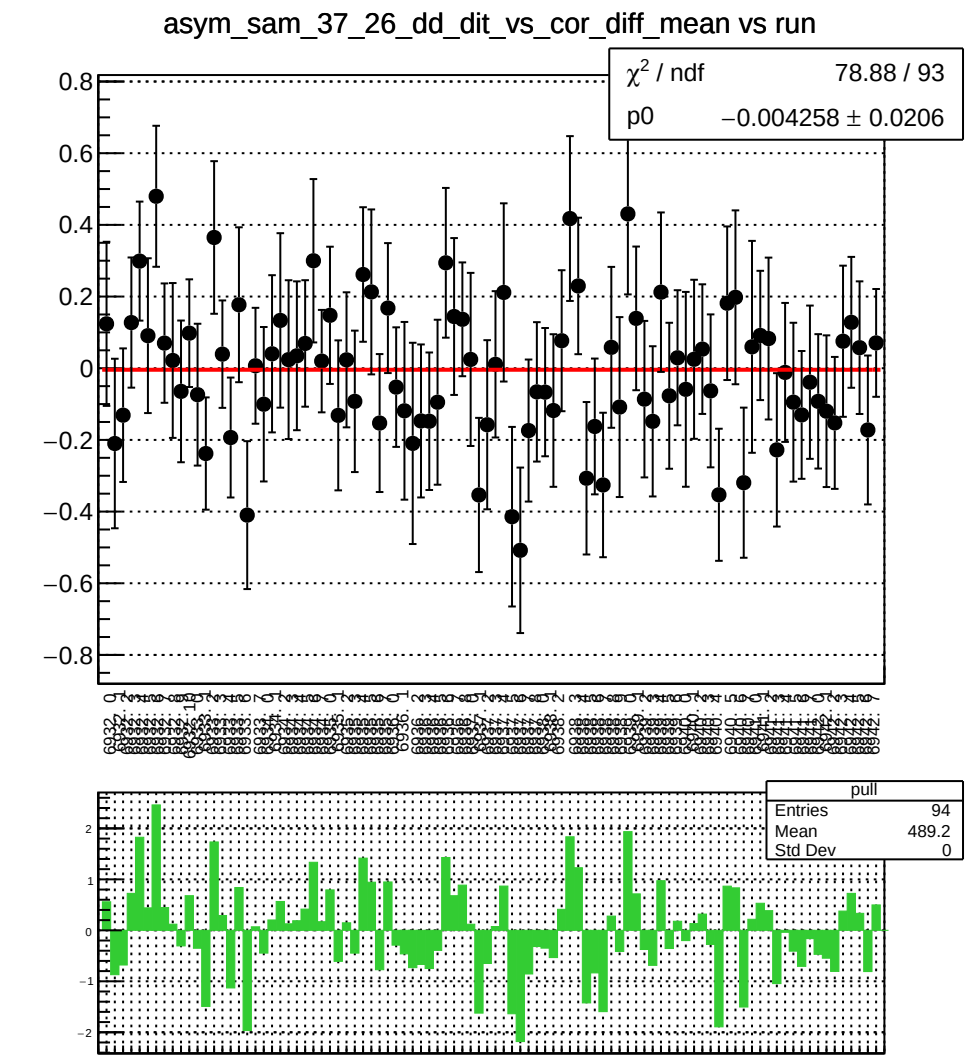

asym_sam_37_26_dd_mean vs run
χ² / ndf 85.72 / 93
p0 −249.7 ± 178.5
pull
Entries 94
Mean 321.4
Std Dev 0

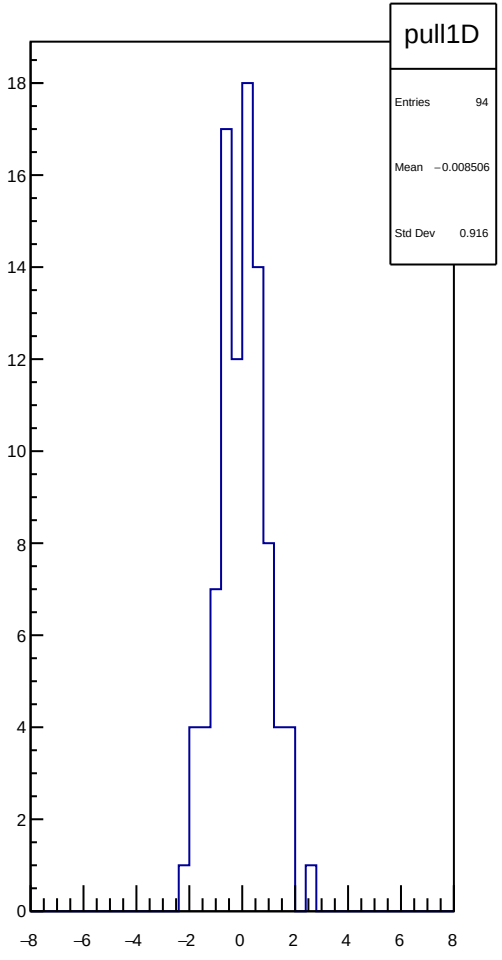

pull1D
Entries 94
Mean 0.01221
Std Dev 0.9549

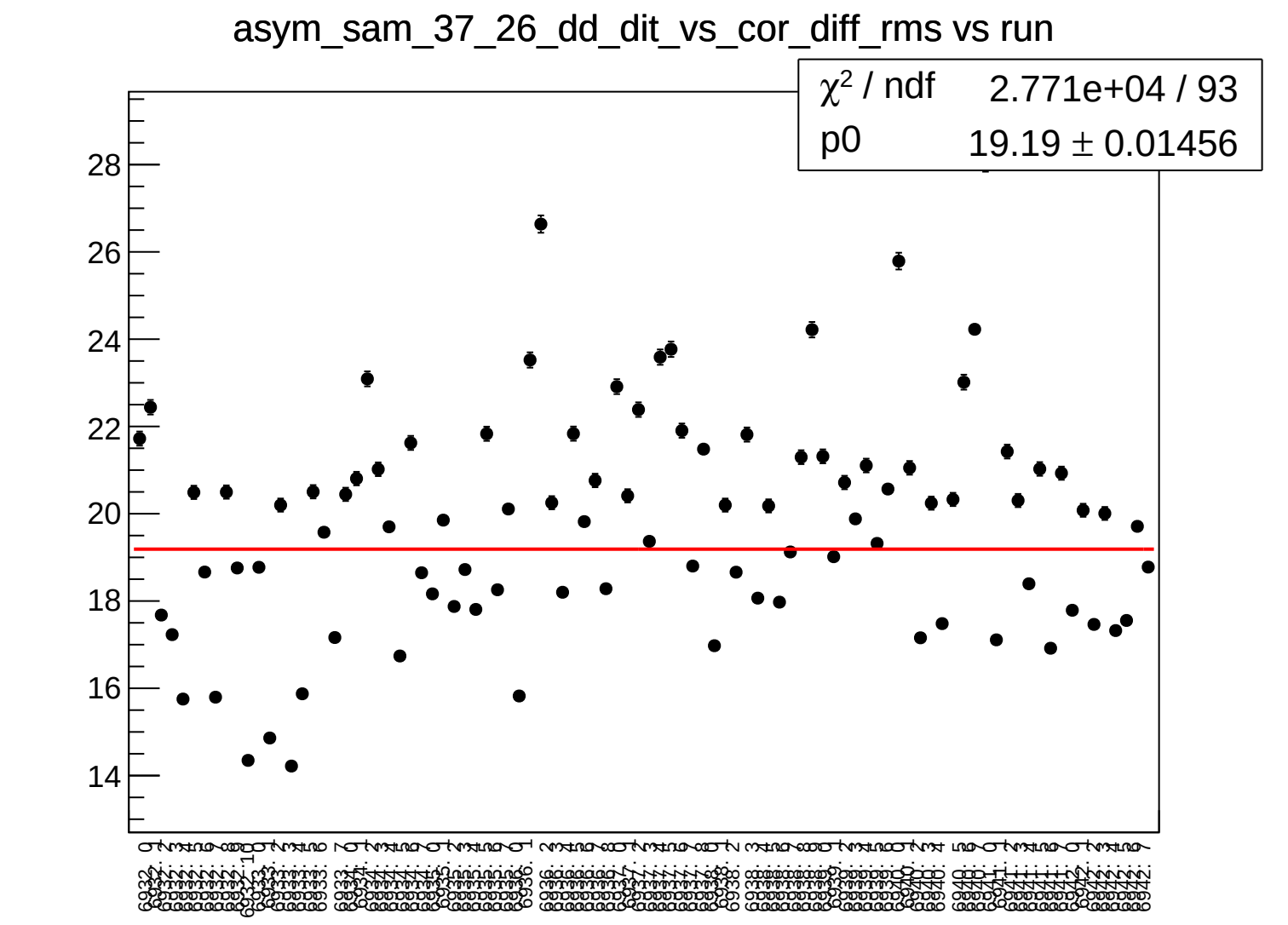

asym_sam_37_26_dd_rms vs run
χ² / ndf 3786 / 93
p0 167.5 ± 0.1262
195
190
185
180
175
170
165
160
155
150

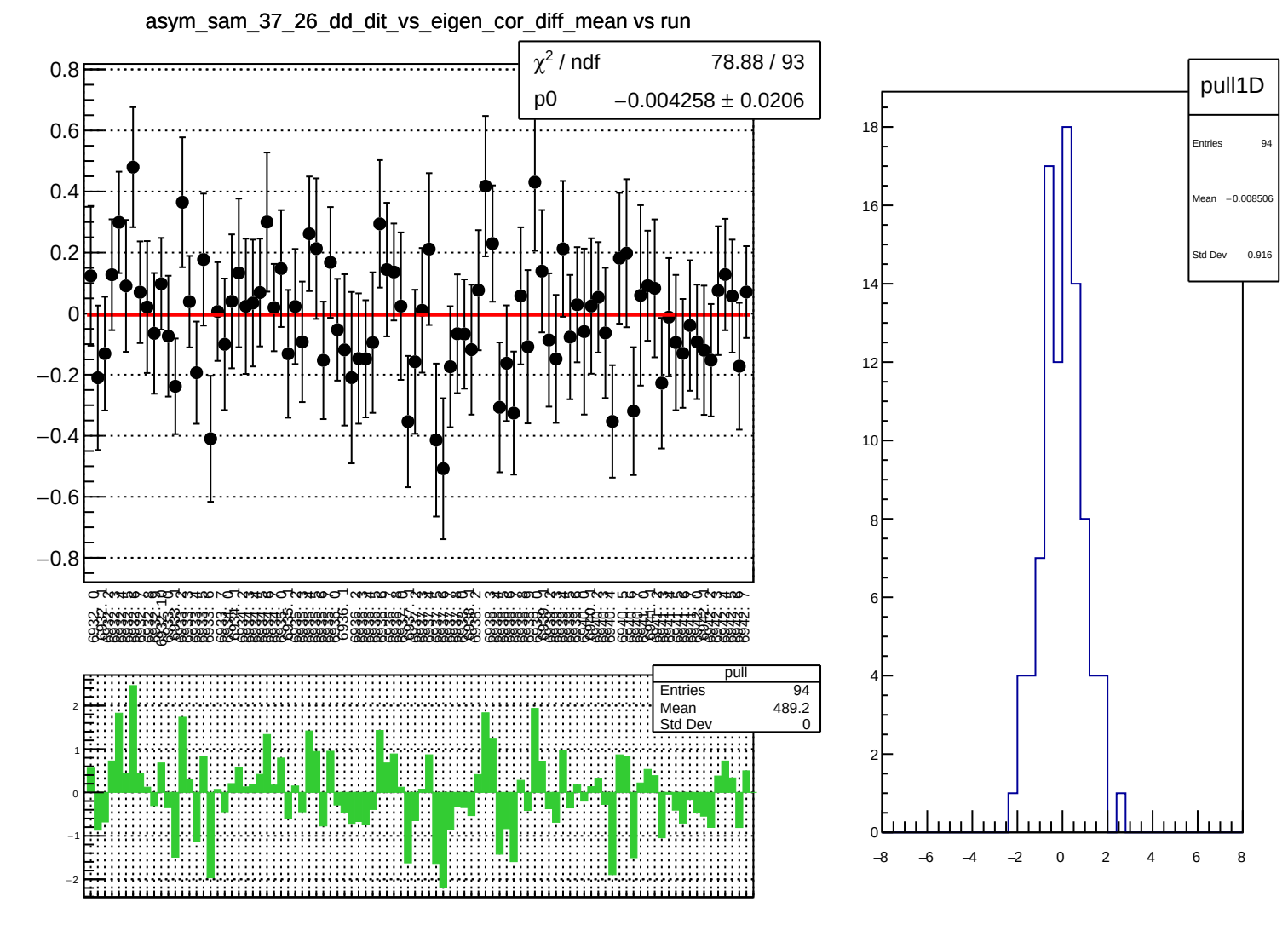

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 78.18 / 93
p0 −8.558e−15 ± 7.565e−15
pull
Entries 94
Mean 104
Std Dev 0
pull1D
Entries 94
Mean 0.07365
Std Dev 0.909

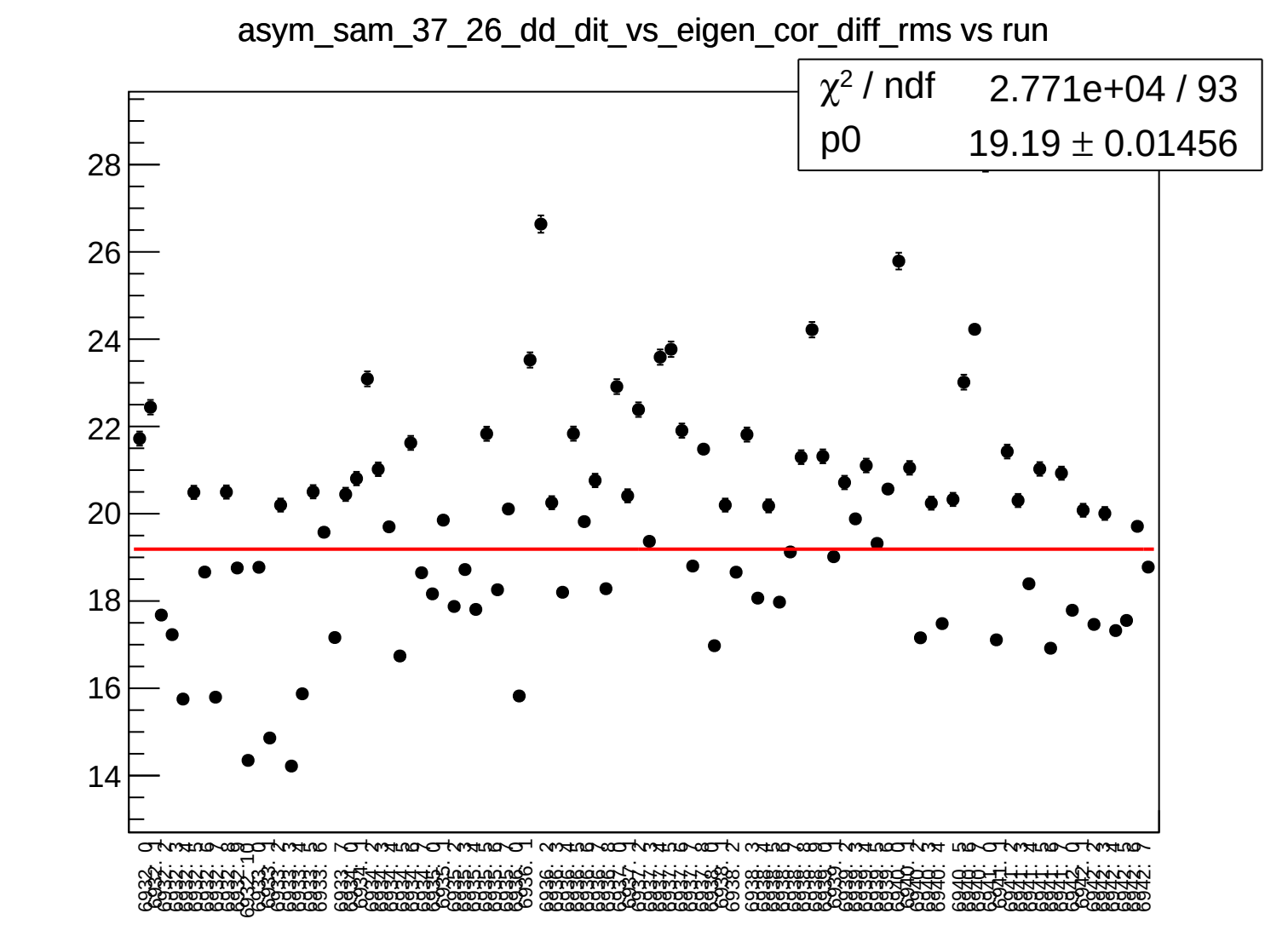

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.969e+05 / 93
p0 4.98e−12 ± 5.349e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

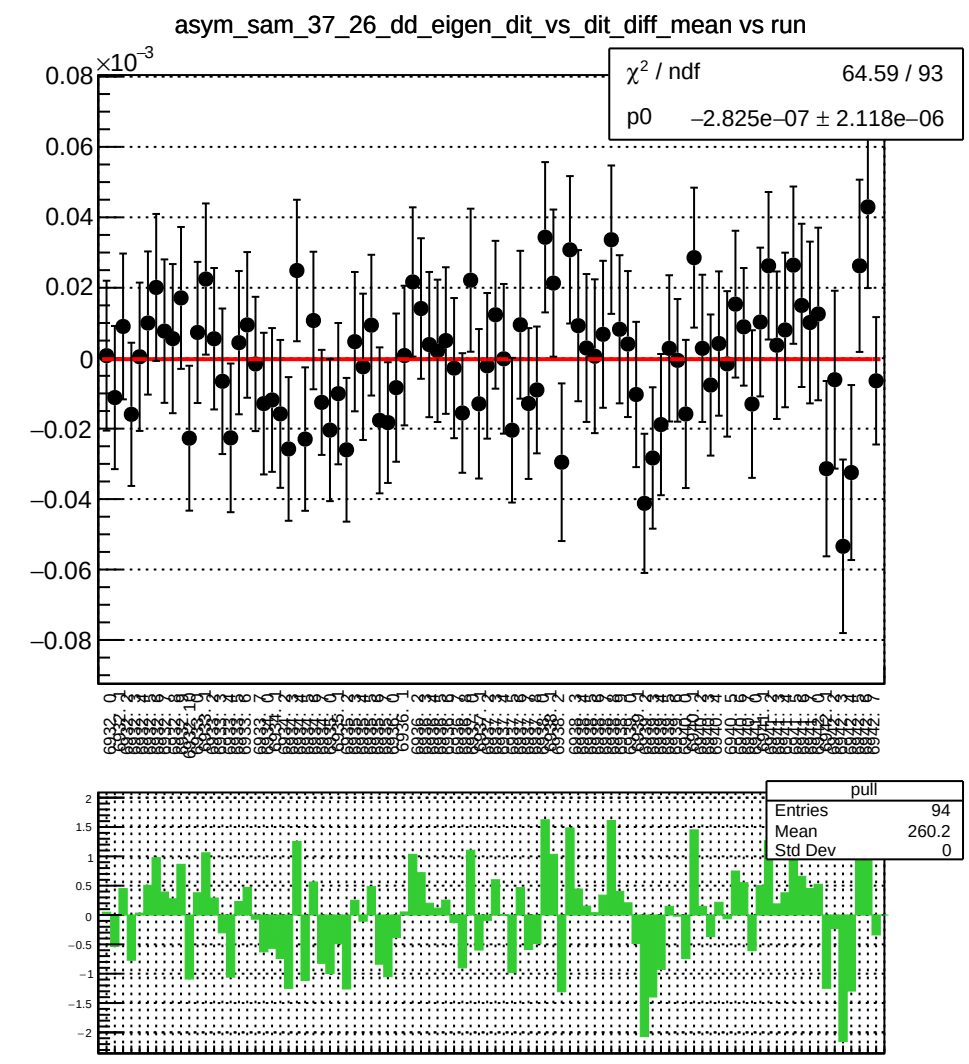

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 93
p0 −0.004258 ± 0.0206
pull
Entries 94
Mean 489.2
Std Dev 0

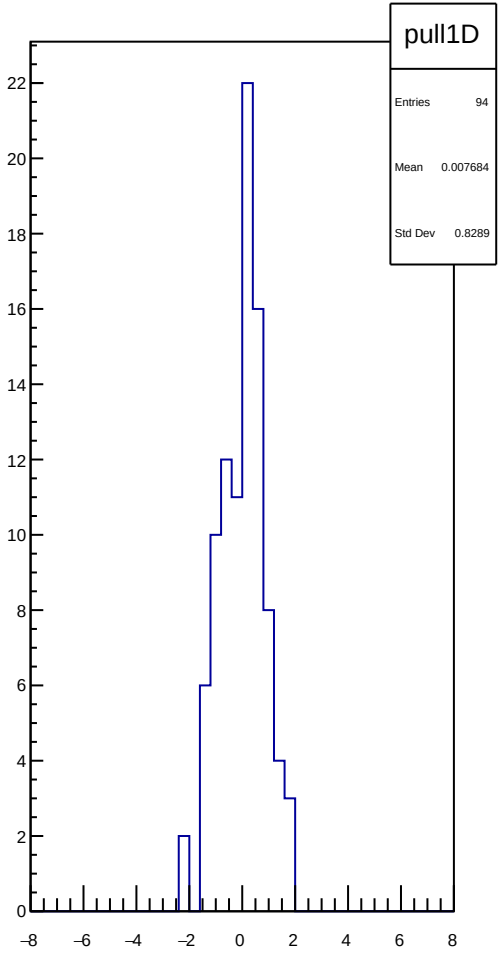

pull1D
Entries 94
Mean −0.008506
Std Dev 0.916

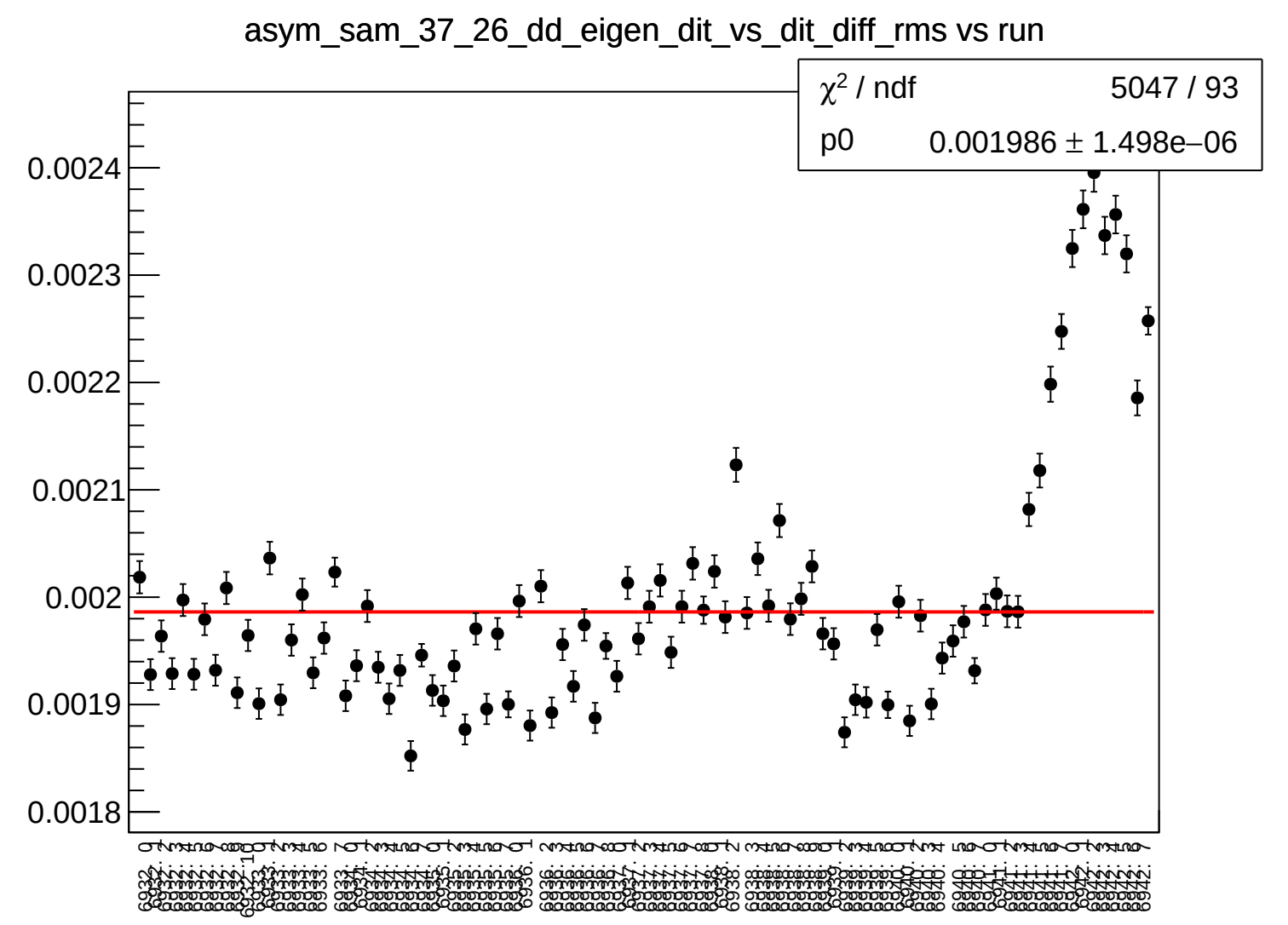

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.771e+04 / 93
p0 19.19 ± 0.01456
28
26
24
22
20
18
16
14

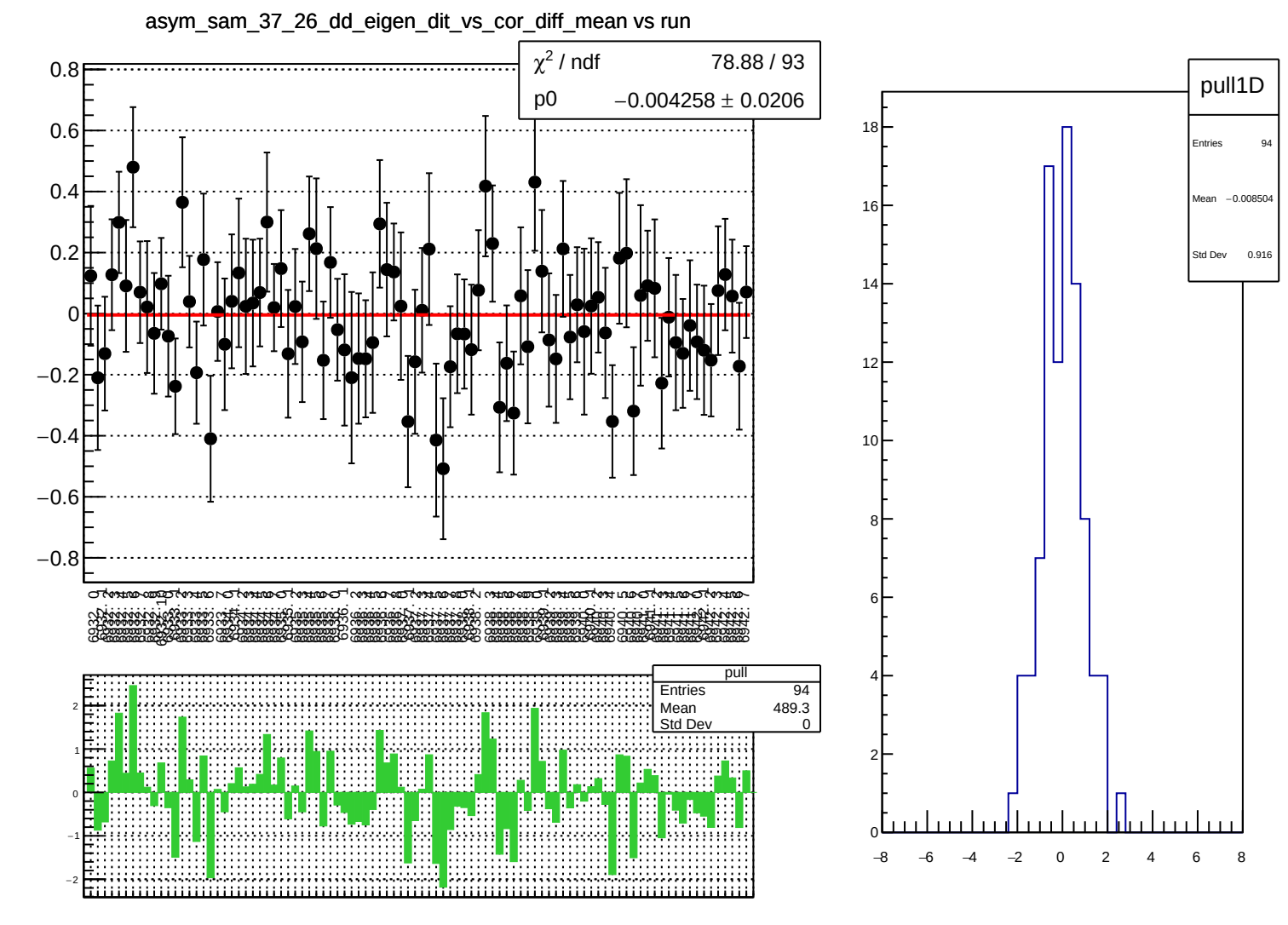

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.88 / 93
p0 −0.004258 ± 0.0206
pull
Entries 94
Mean 489.2
Std Dev 0
pull1D
Entries 94
Mean −0.008506
Std Dev 0.916

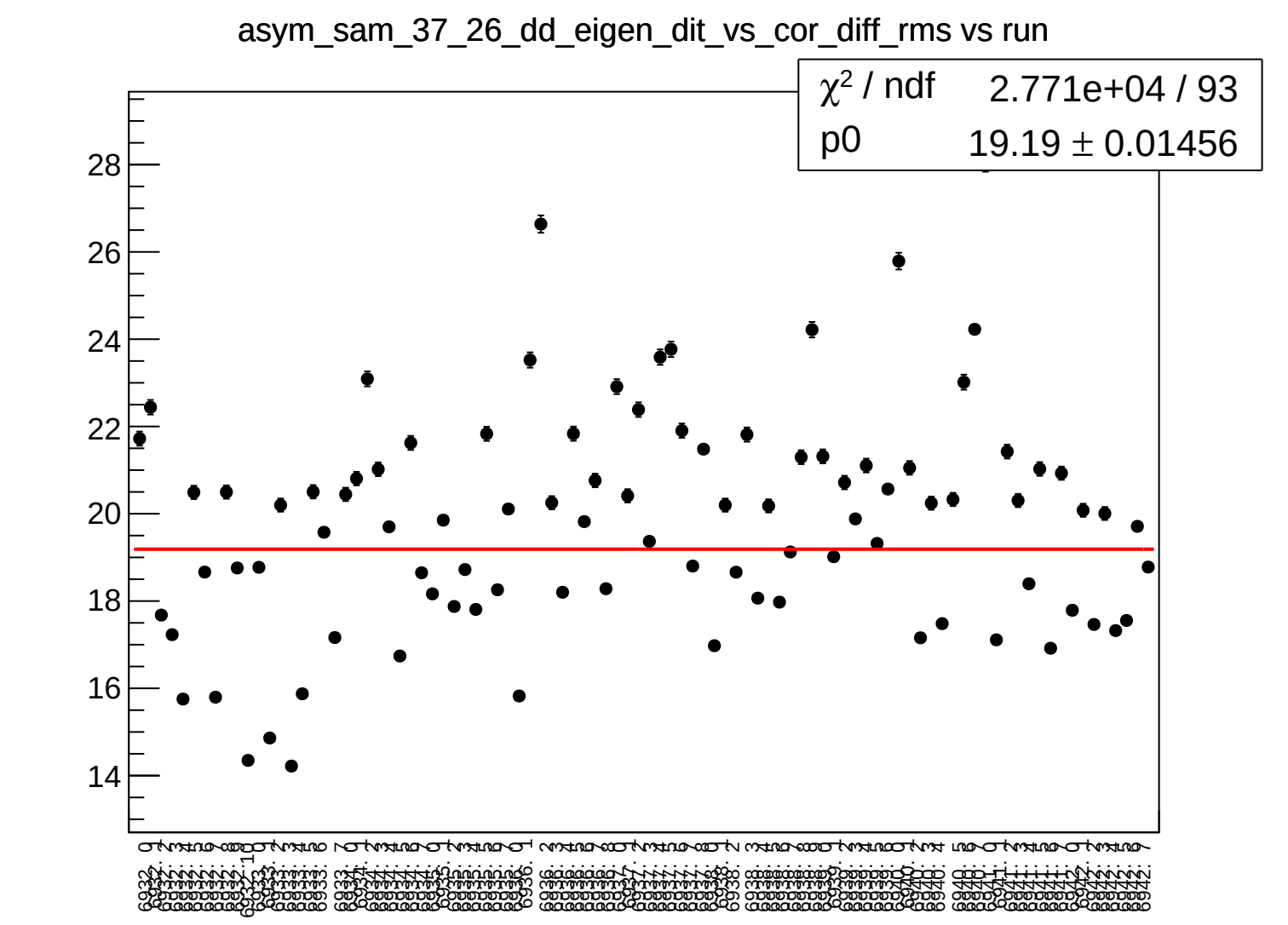

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.771e+04 / 93
p0 19.19 ± 0.01456
28
26
24
22
20
18
16
14

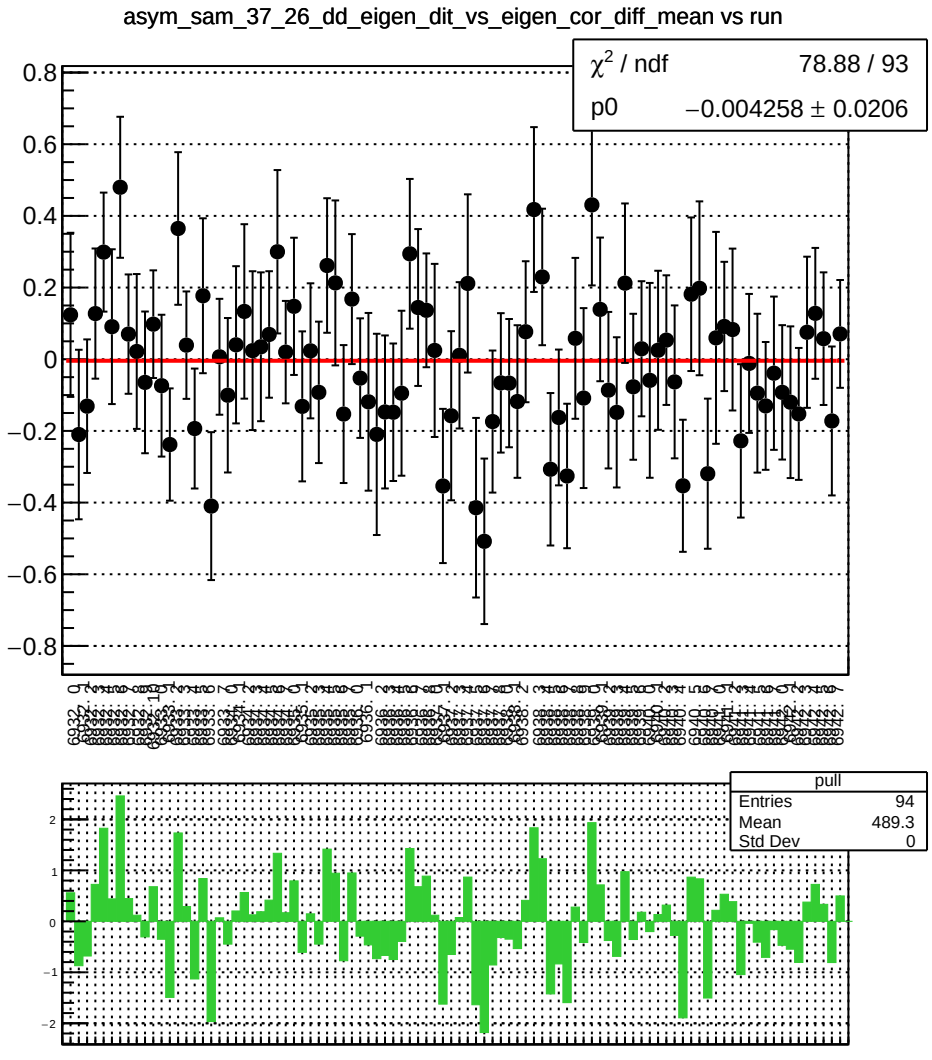

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 64.59 / 93
p0 −2.825e−07 ± 2.118e−06
×10⁻³
pull
Entries 94
Mean 260.2
Std Dev 0

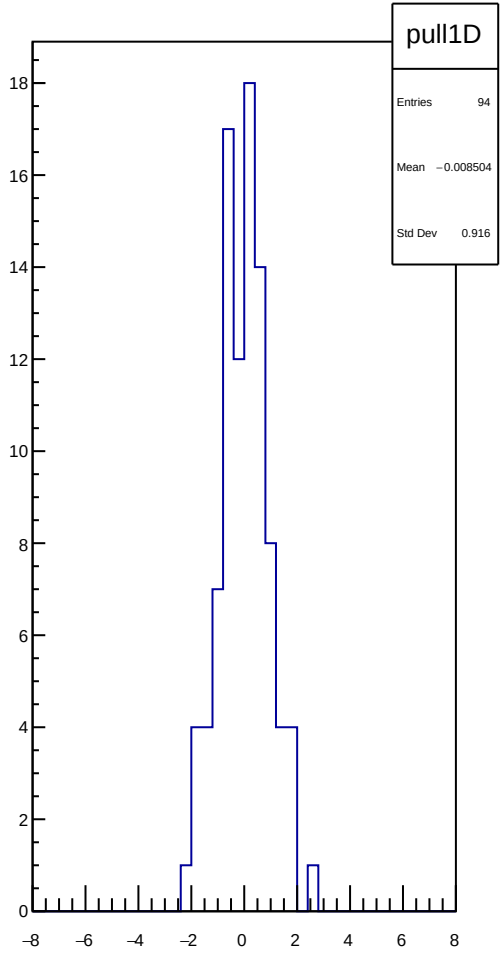

pull1D
Entries 94
Mean 0.007684
Std Dev 0.8289

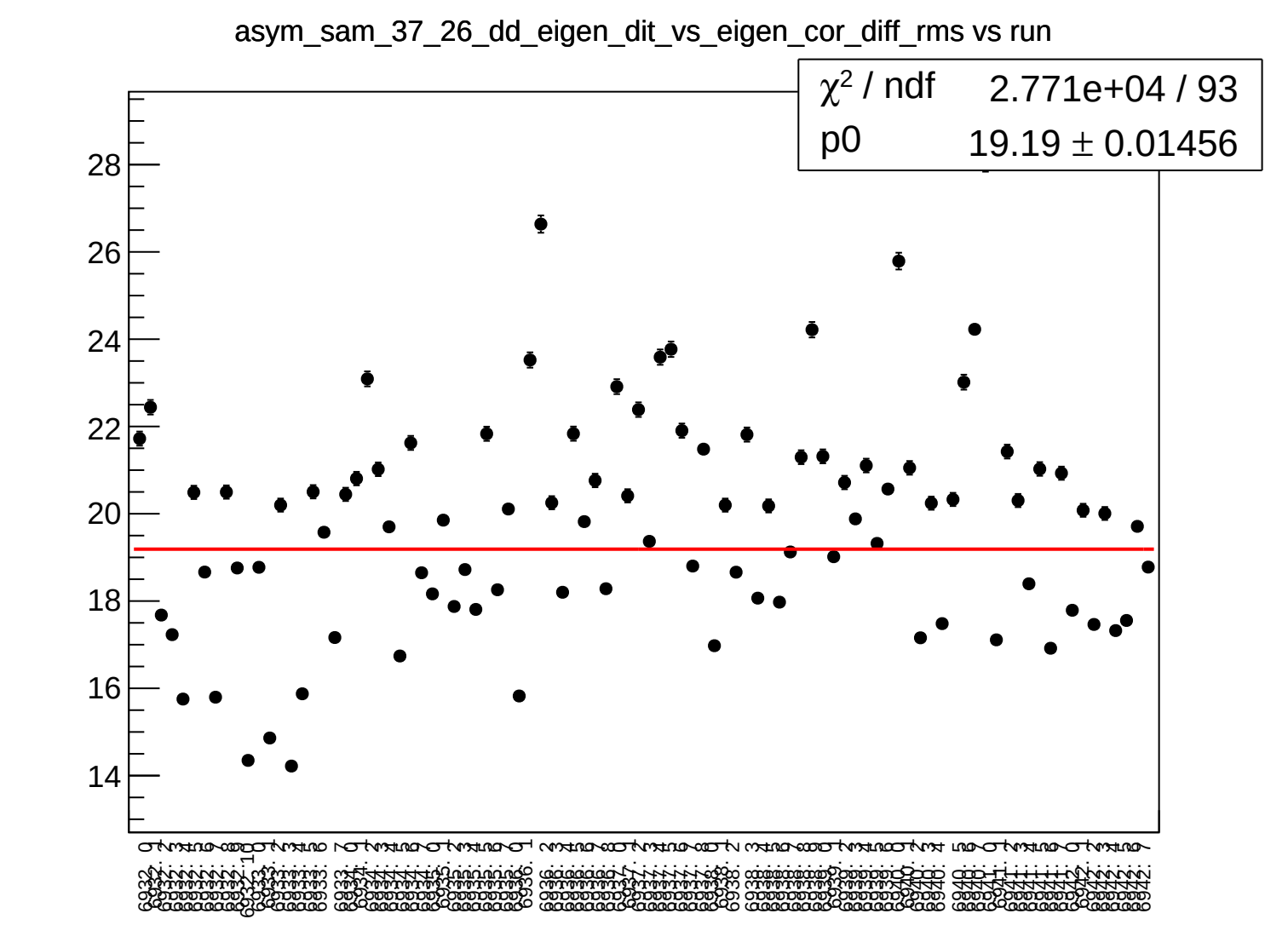

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5047 / 93
p0 0.001986 ± 1.498e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

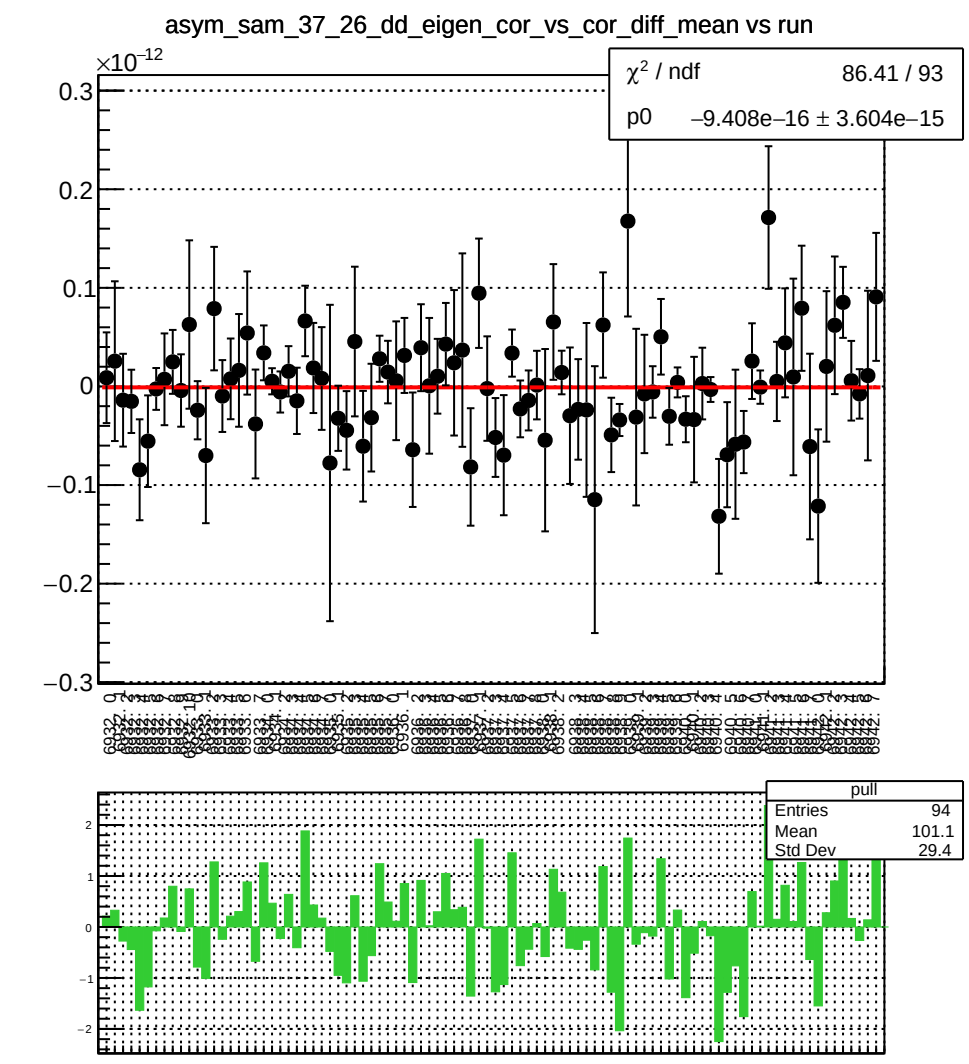

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.88 / 93
p0 −0.004258 ± 0.0206
pull
Entries 94
Mean 489.3
Std Dev 0
pull1D
Entries 94
Mean −0.008504
Std Dev 0.916

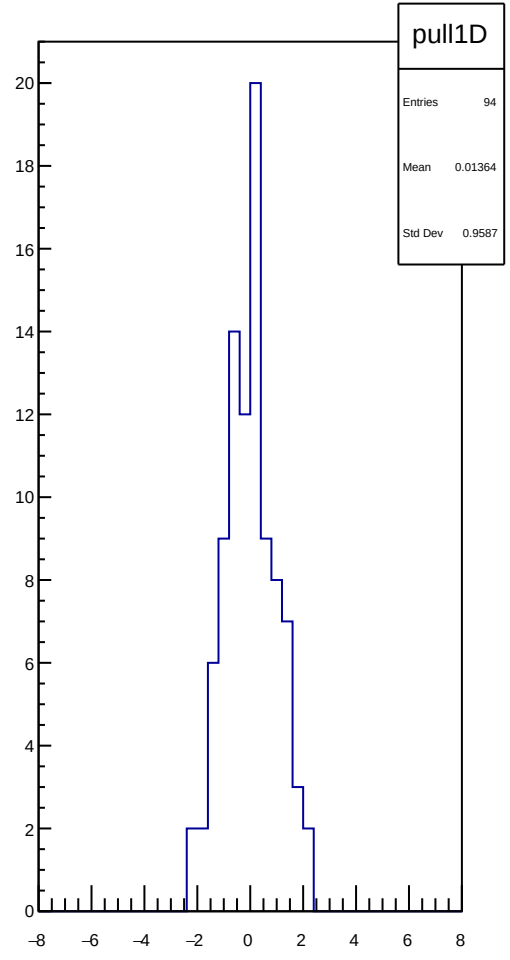

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.771e+04 / 93
p0 19.19 ± 0.01456
28
26
24
22
20
18
16
14

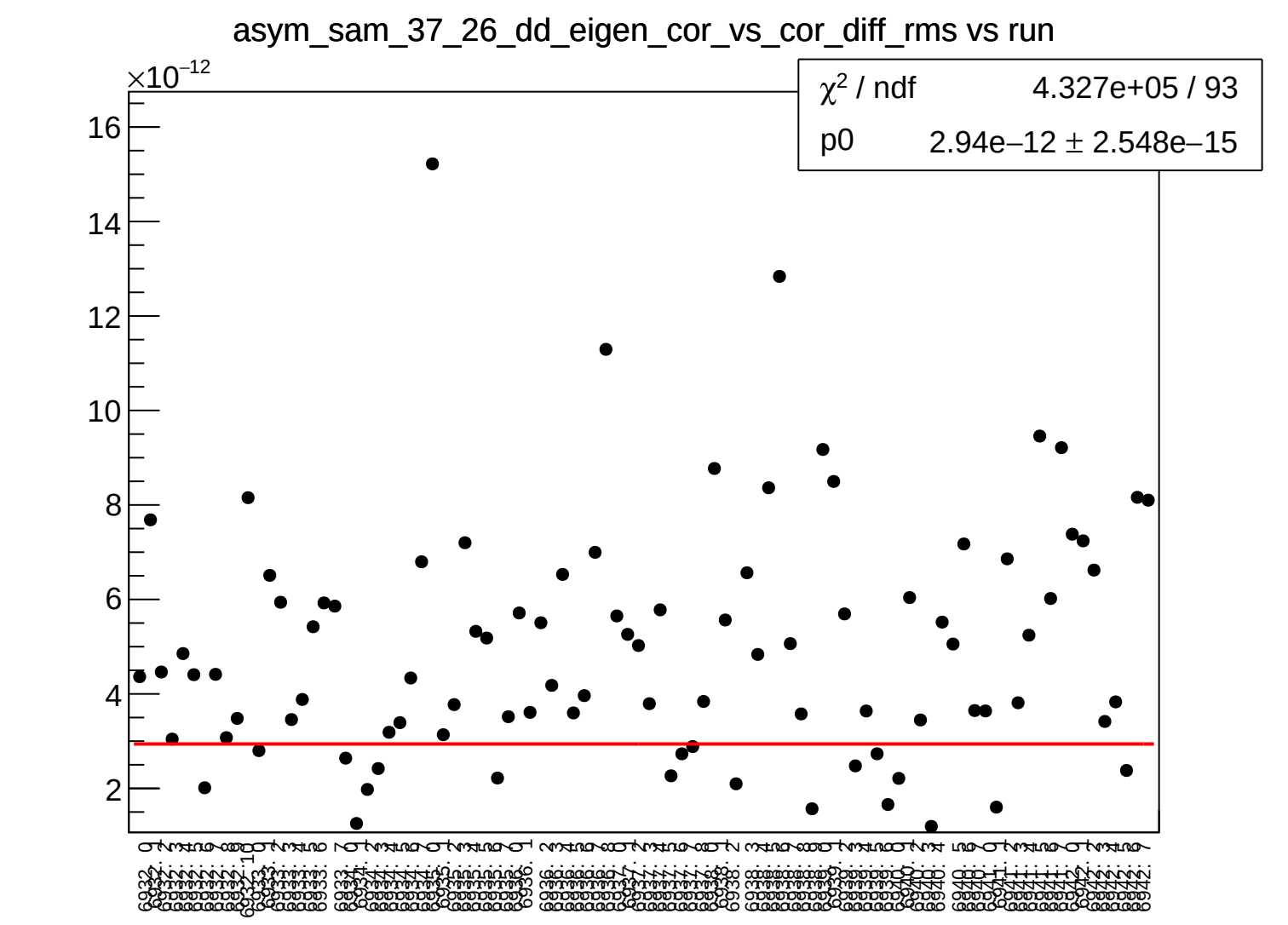

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.88 / 93
p0 −0.004258 ± 0.0206
pull
Entries 94
Mean 489.3
Std Dev 0

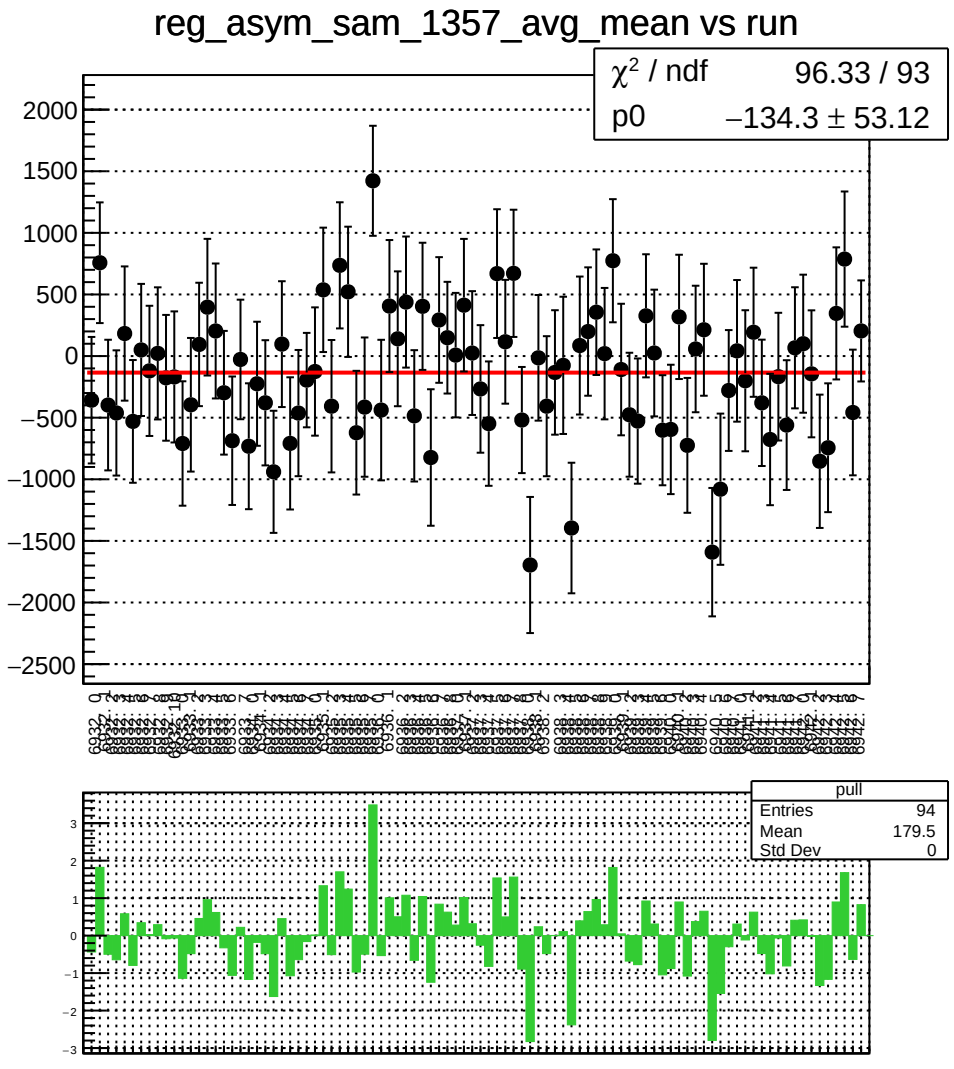

pull1D
Entries 94
Mean −0.008504
Std Dev 0.916

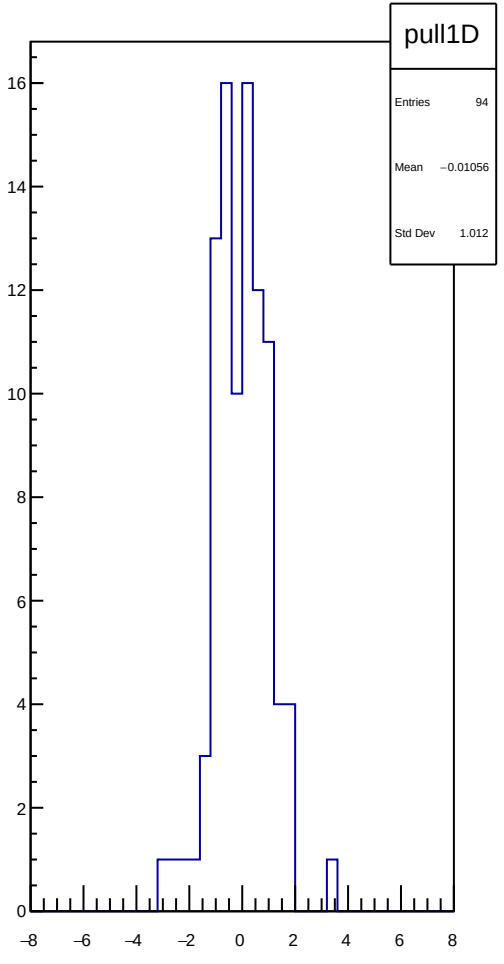

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.771e+04 / 93
p0 19.19 ± 0.01456
28
26
24
22
20
18
16
14

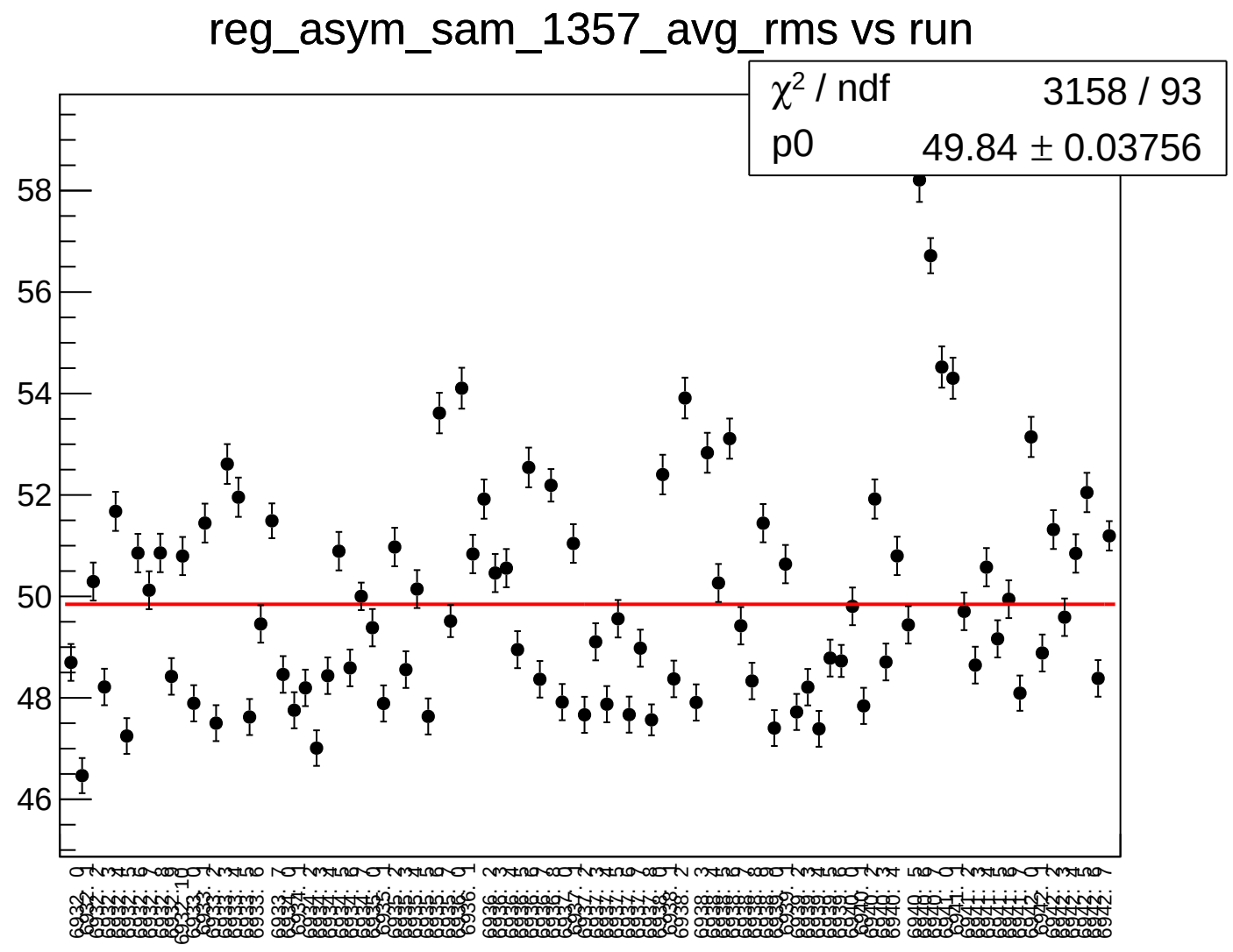

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.41 / 93
p0 −9.408e−16 ± 3.604e−15
pull
Entries 94
Mean 101.1
Std Dev 29.4

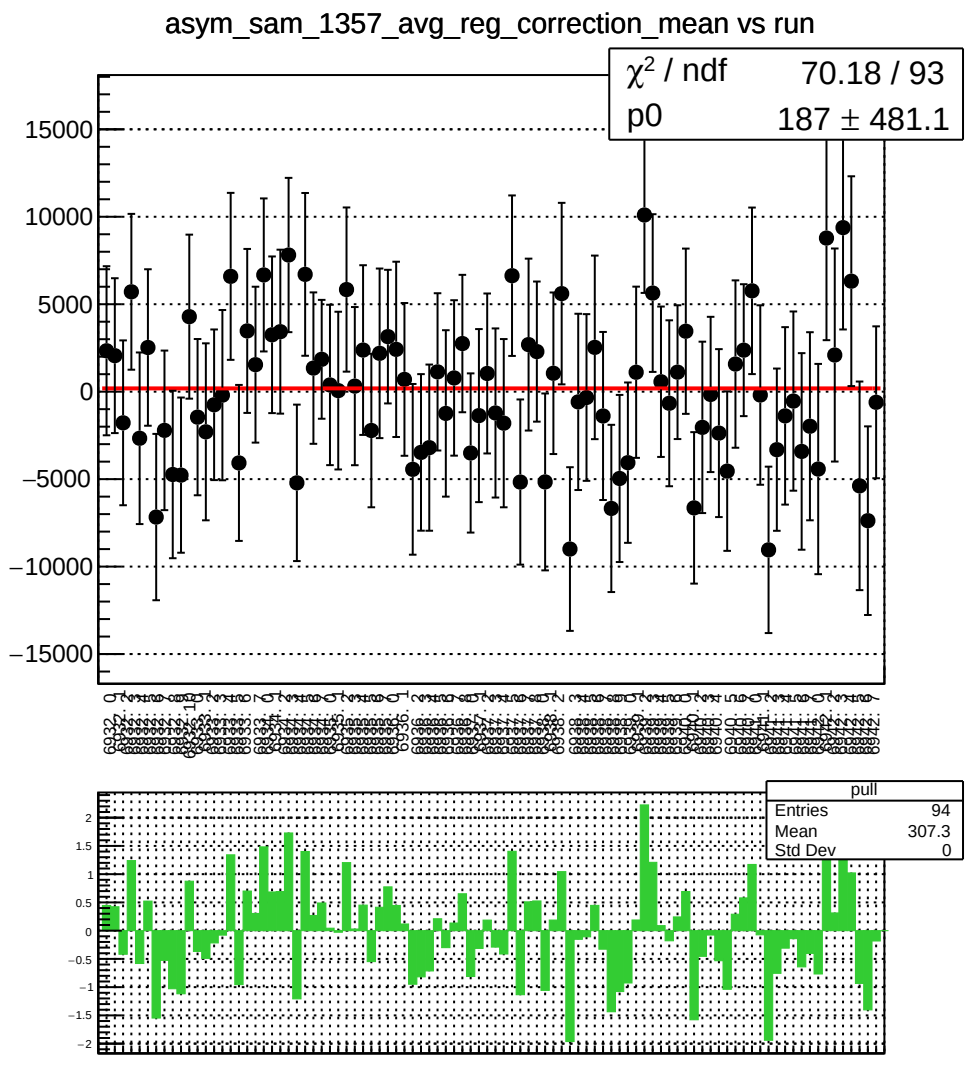

pull1D
Entries 94
Mean 0.01364
Std Dev 0.9587

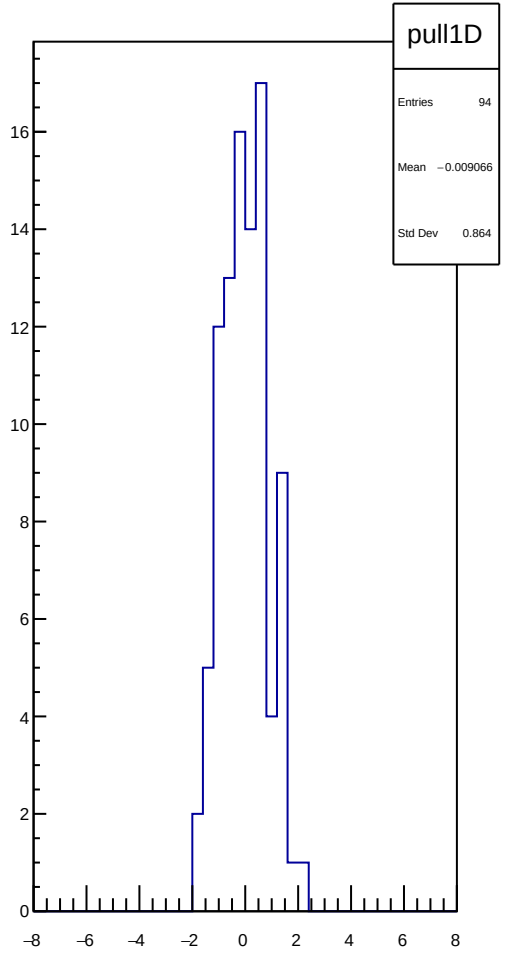

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.327e+05 / 93
p0 2.94e−12 ± 2.548e−15
16
14
12
10
8
6
4
2

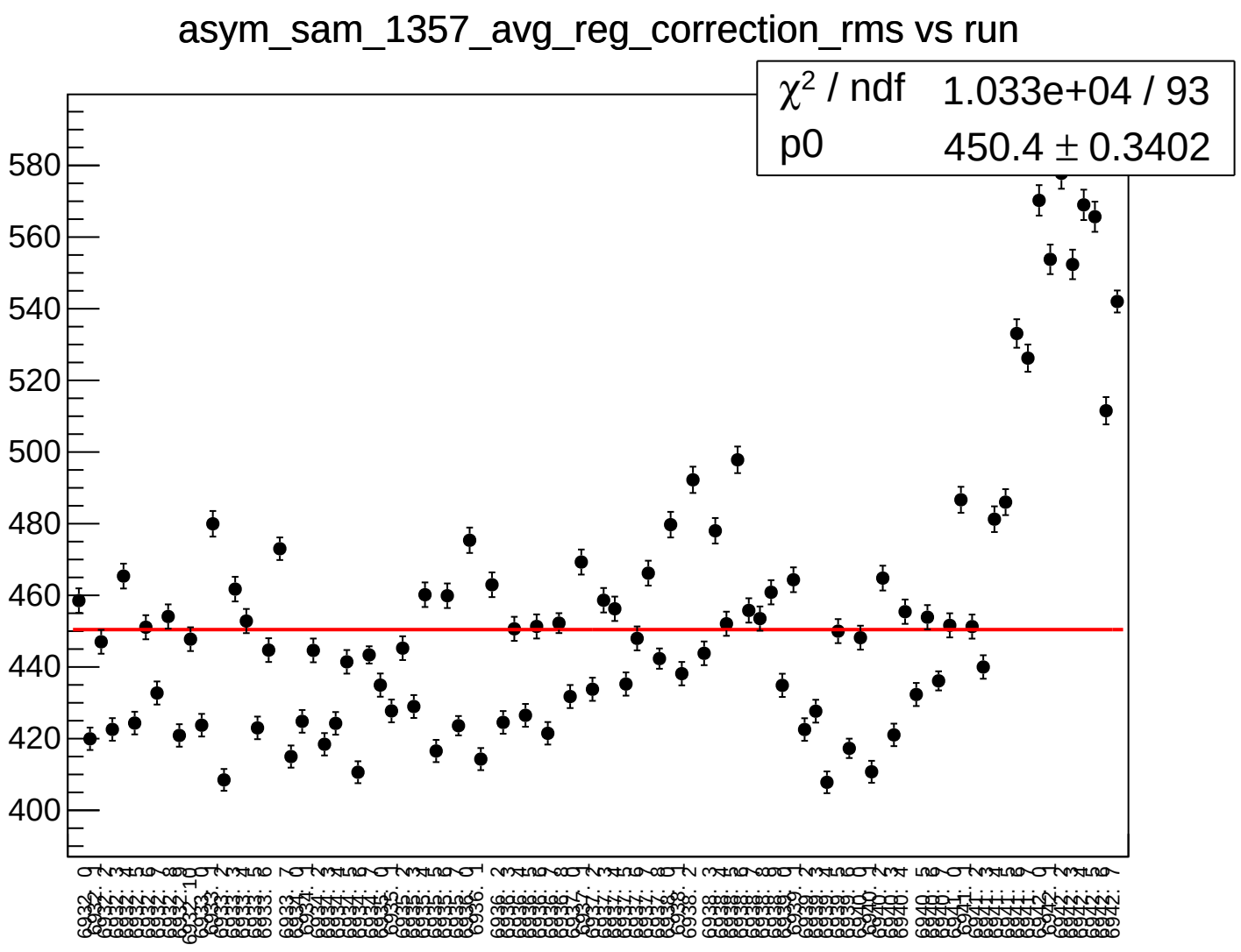

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 96.33 / 93
p0 −134.3 ± 53.12
pull
Entries 94
Mean 179.5
Std Dev 0

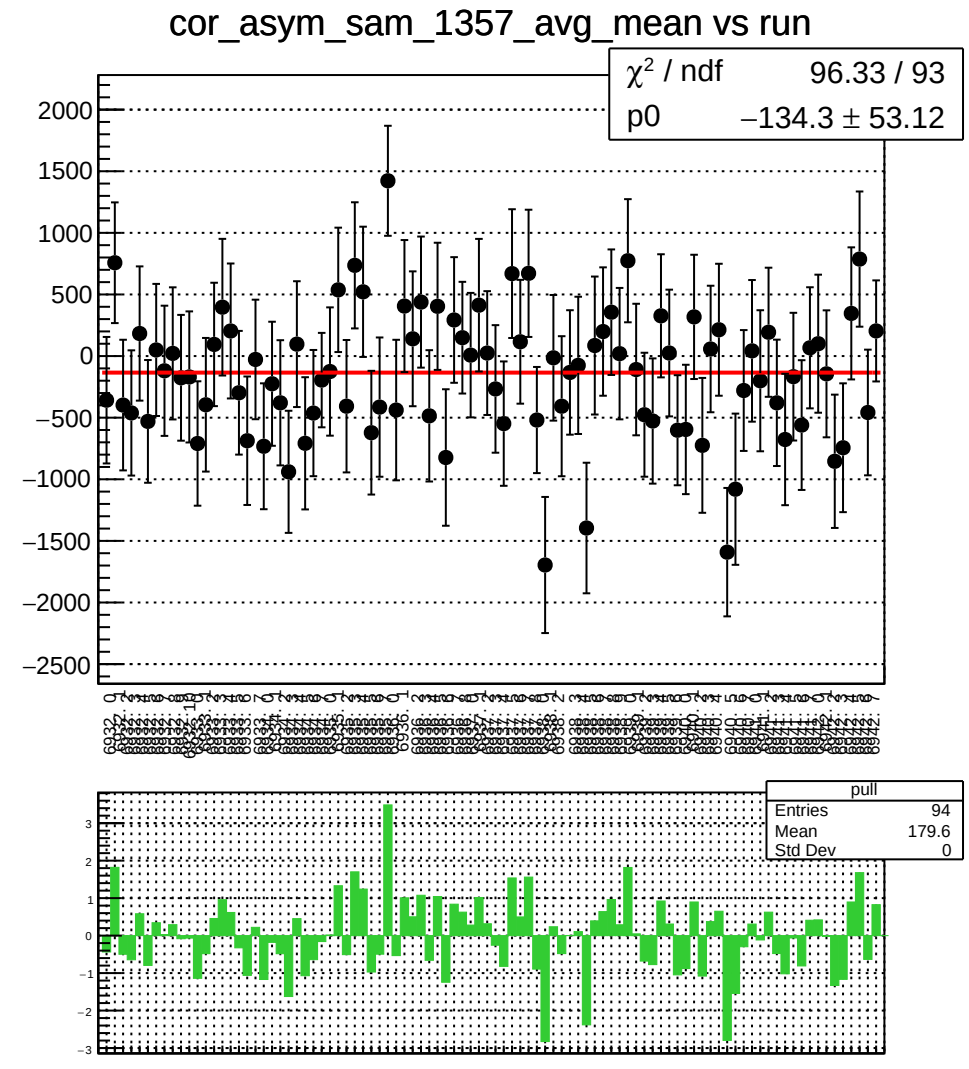

pull1D
Entries 94
Mean −0.01056
Std Dev 1.012

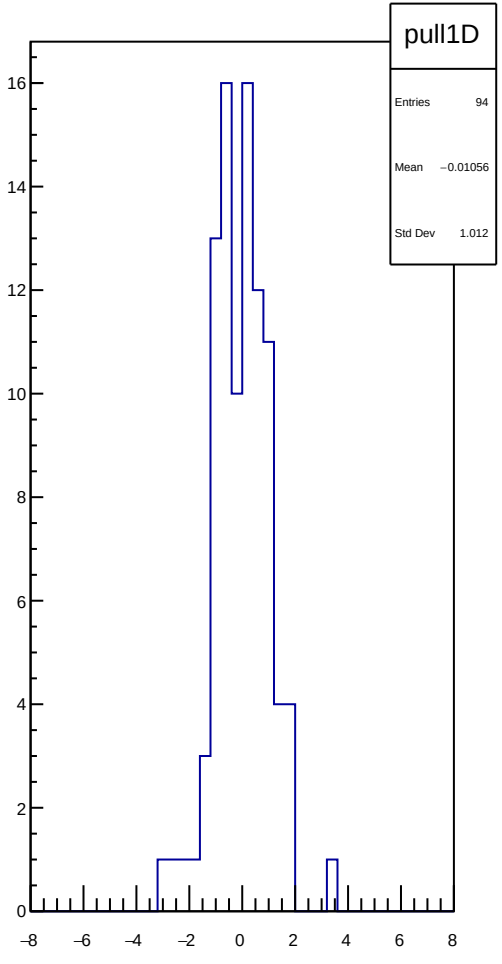

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 3158 / 93
p0 49.84 ± 0.03756
58
56
54
52
50
48
46

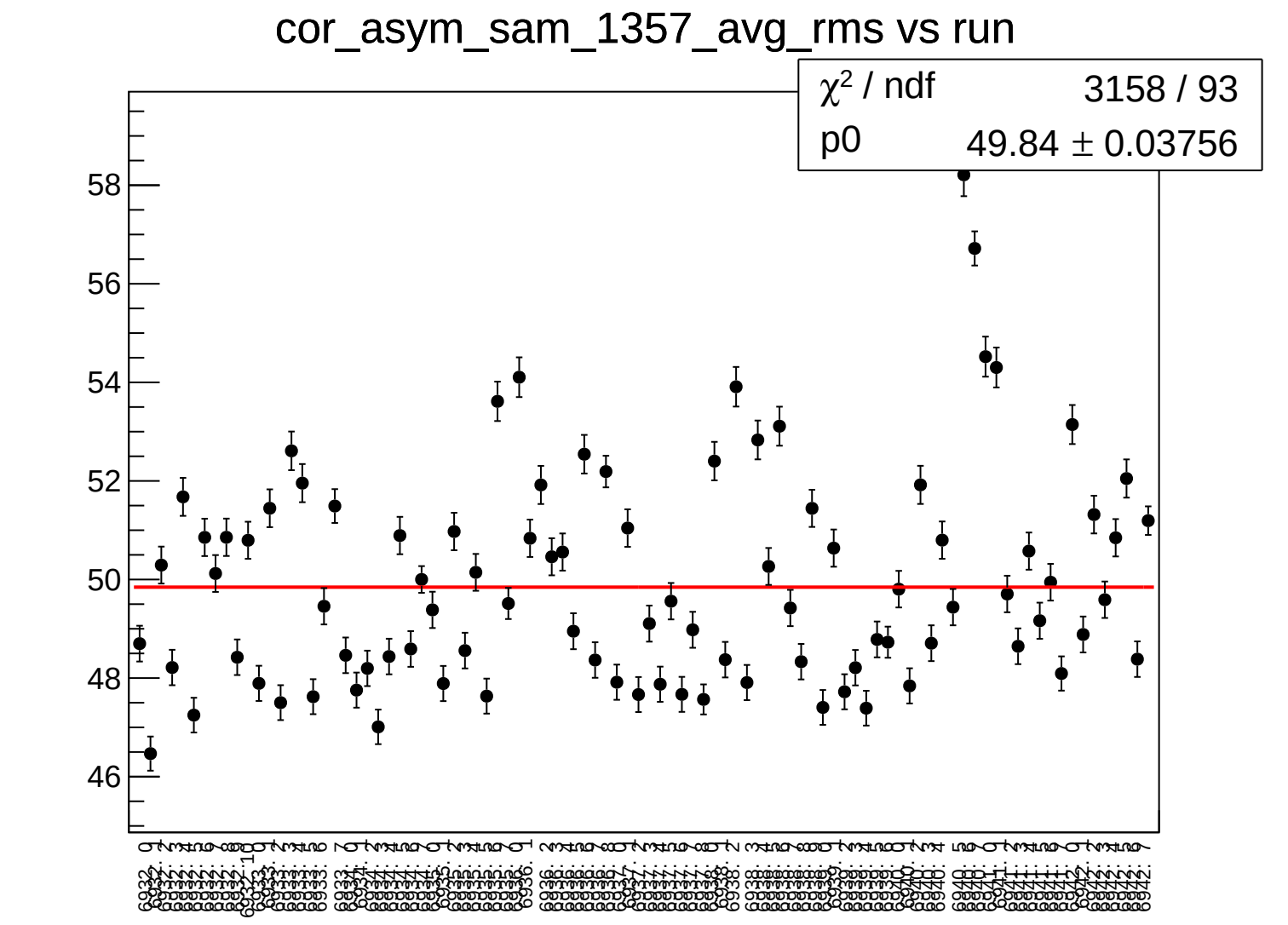

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 70.18 / 93
p0 187 ± 481.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 307.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

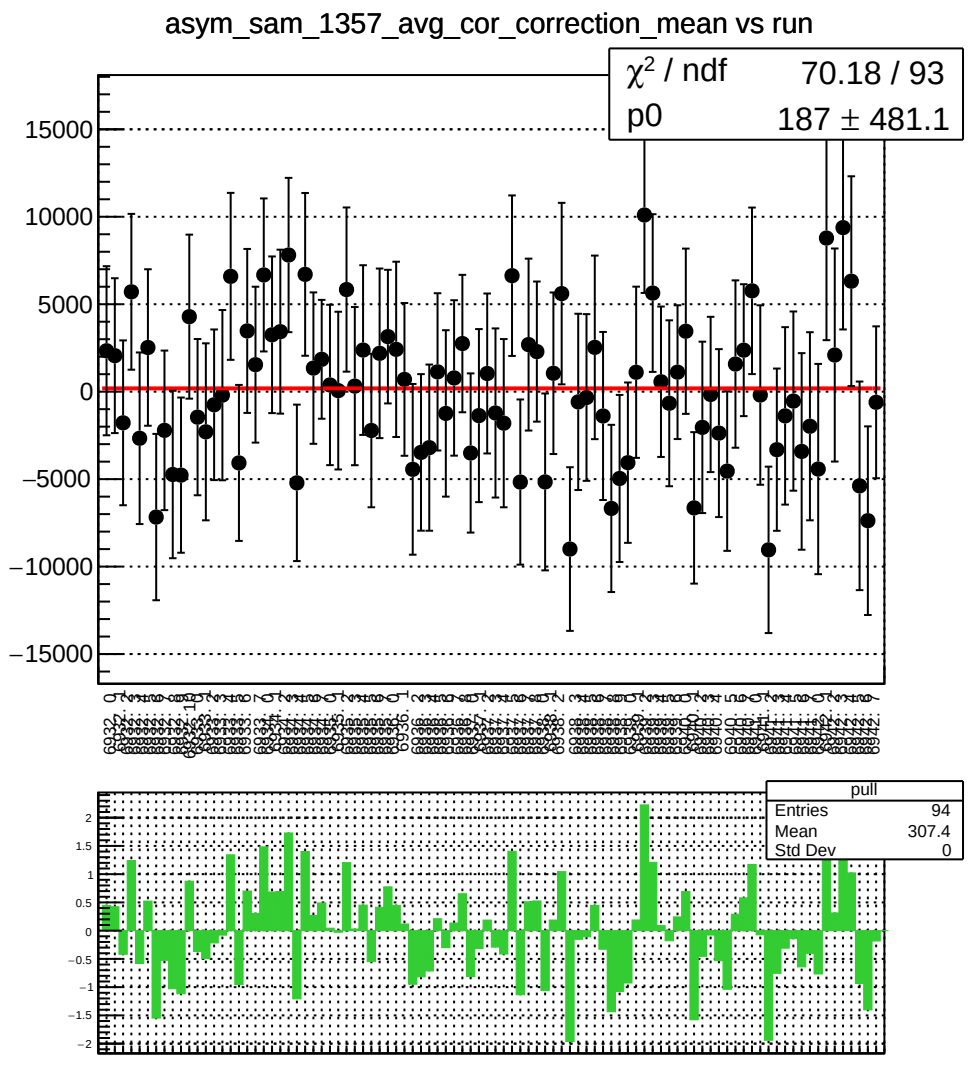

pull1D
Entries 94
Mean −0.009066
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

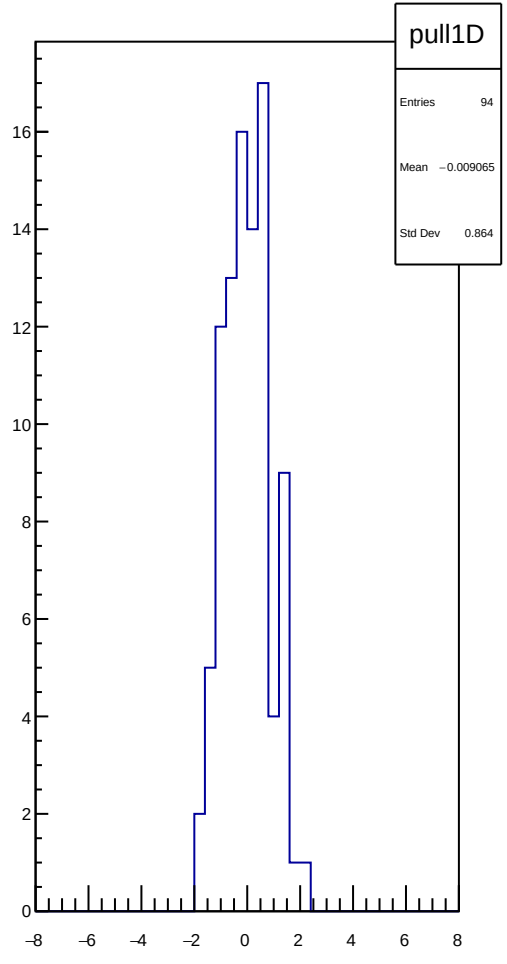

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 1.033e+04 / 93
p0 450.4 ± 0.3402
580
560
540
520
500
480
460
440
420
400

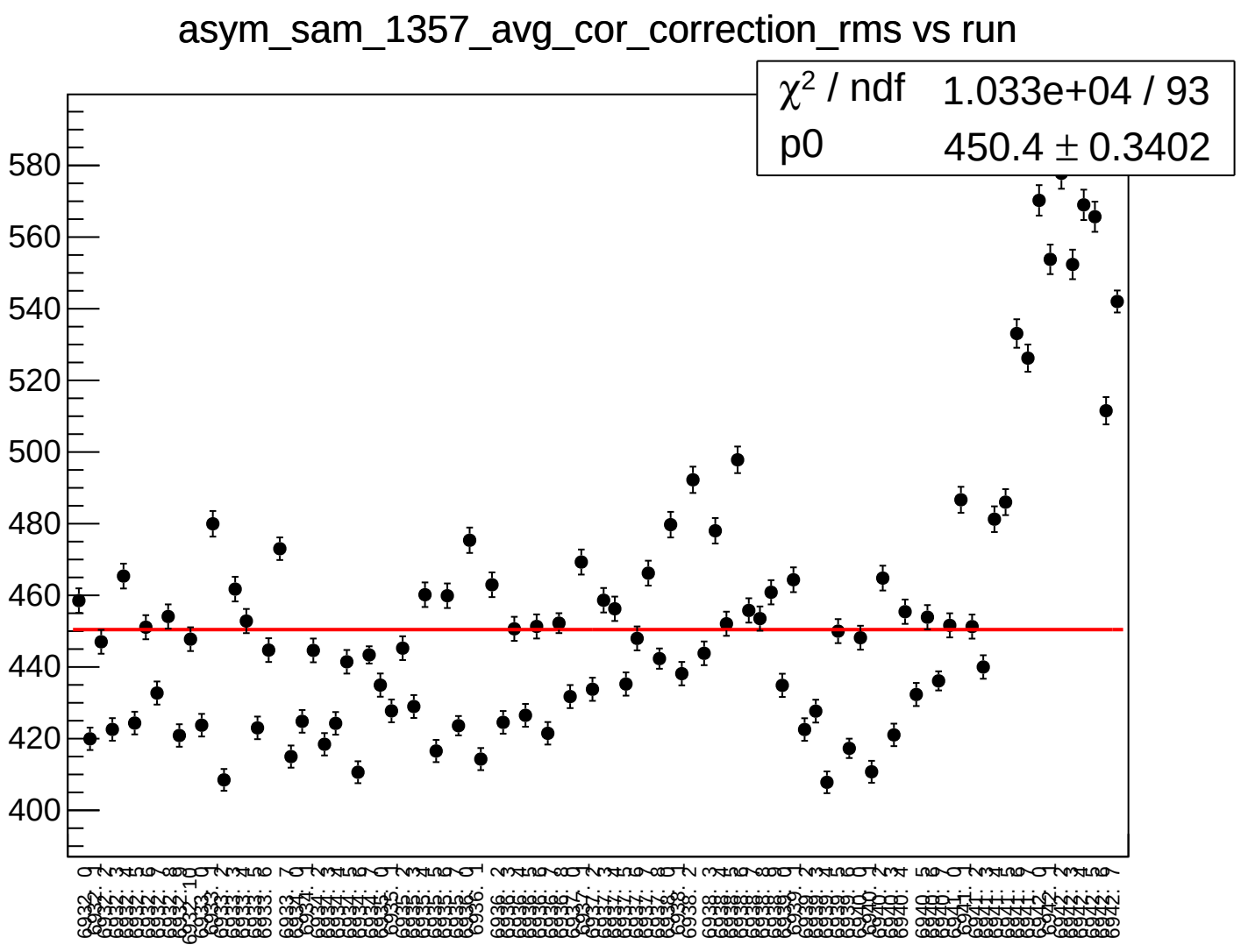

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 96.33 / 93
p0 −134.3 ± 53.12
pull
Entries 94
Mean 179.6
Std Dev 0

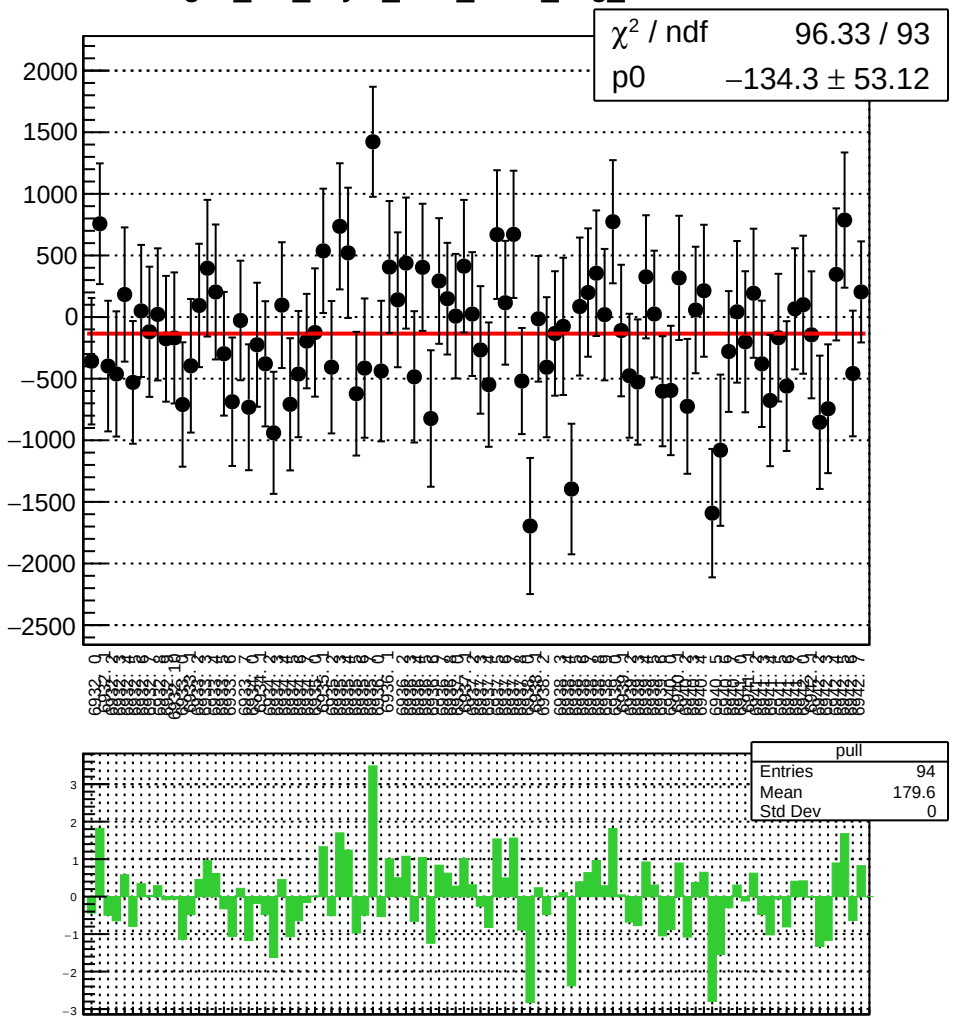

pull1D
Entries 94
Mean −0.01056
Std Dev 1.012

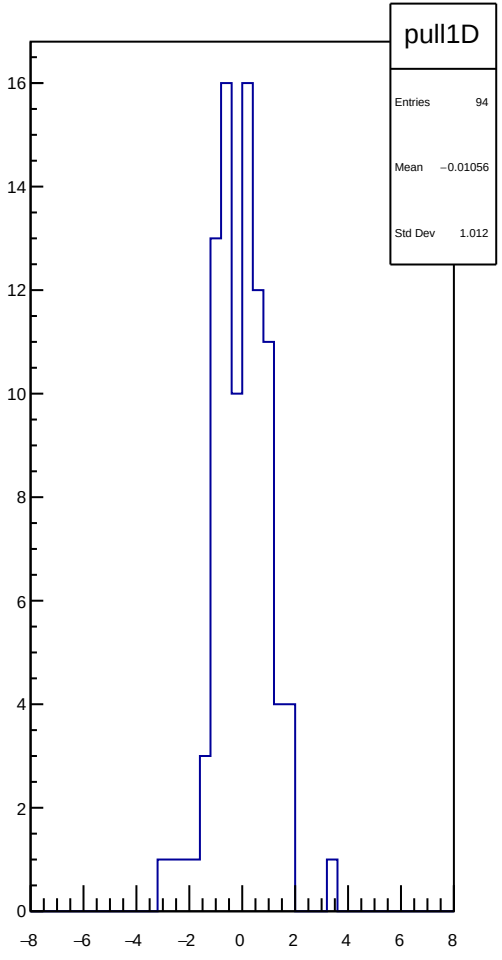

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3158 / 93
p0 49.84 ± 0.03756
58
56
54
52
50
48
46

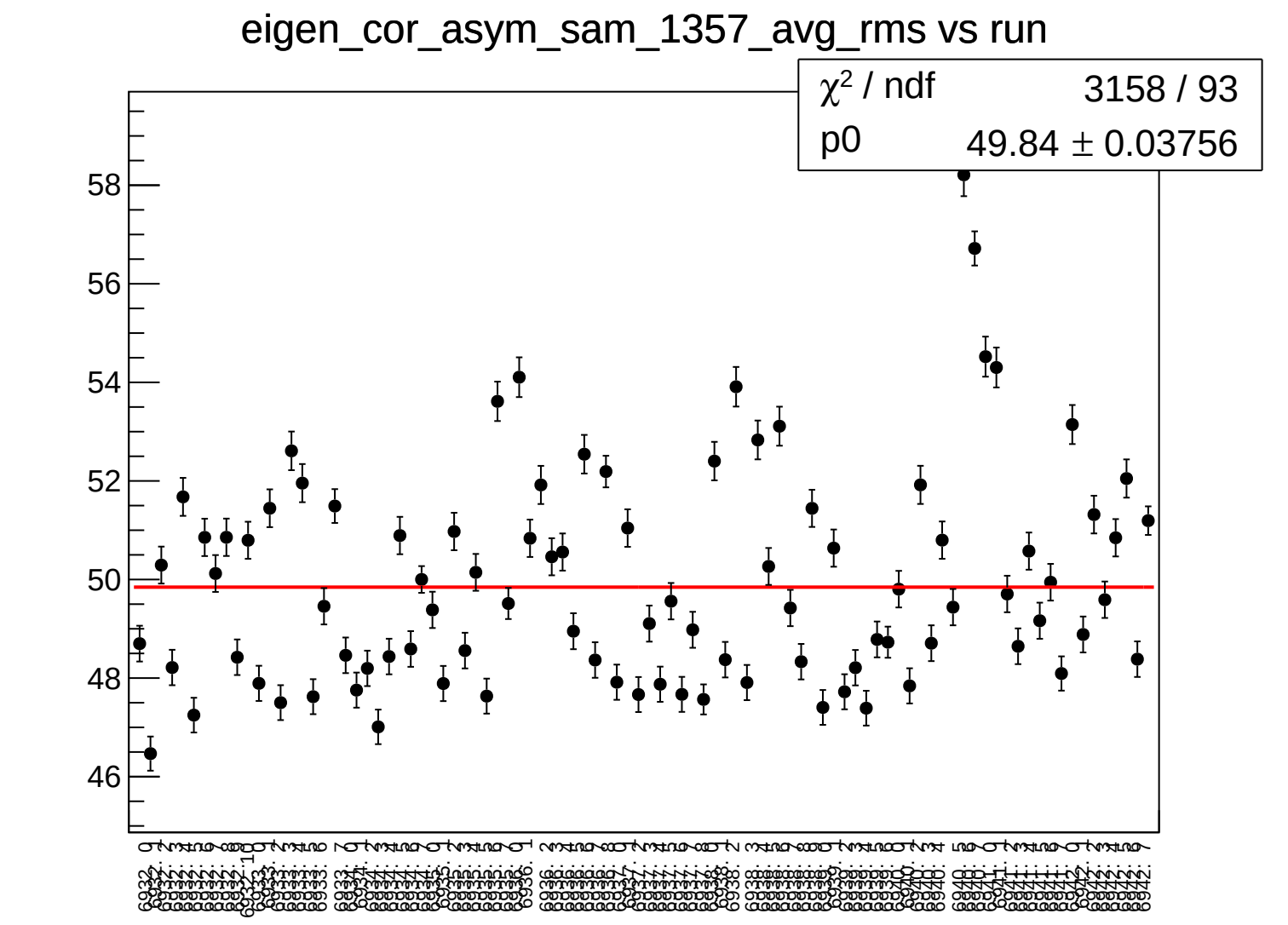

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 70.18 / 93
p0 187 ± 481.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 307.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

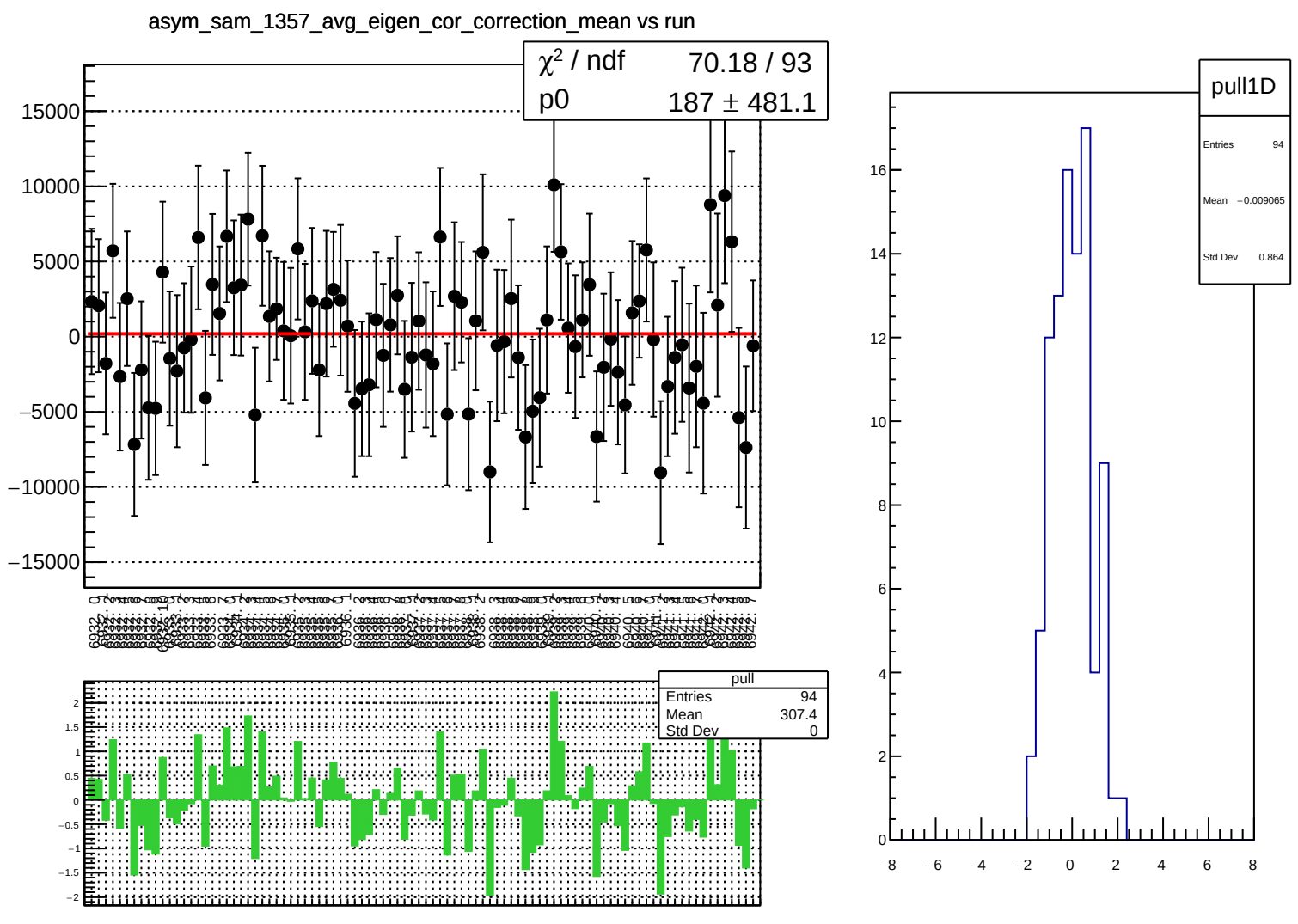

pull1D
Entries 94
Mean −0.009065
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

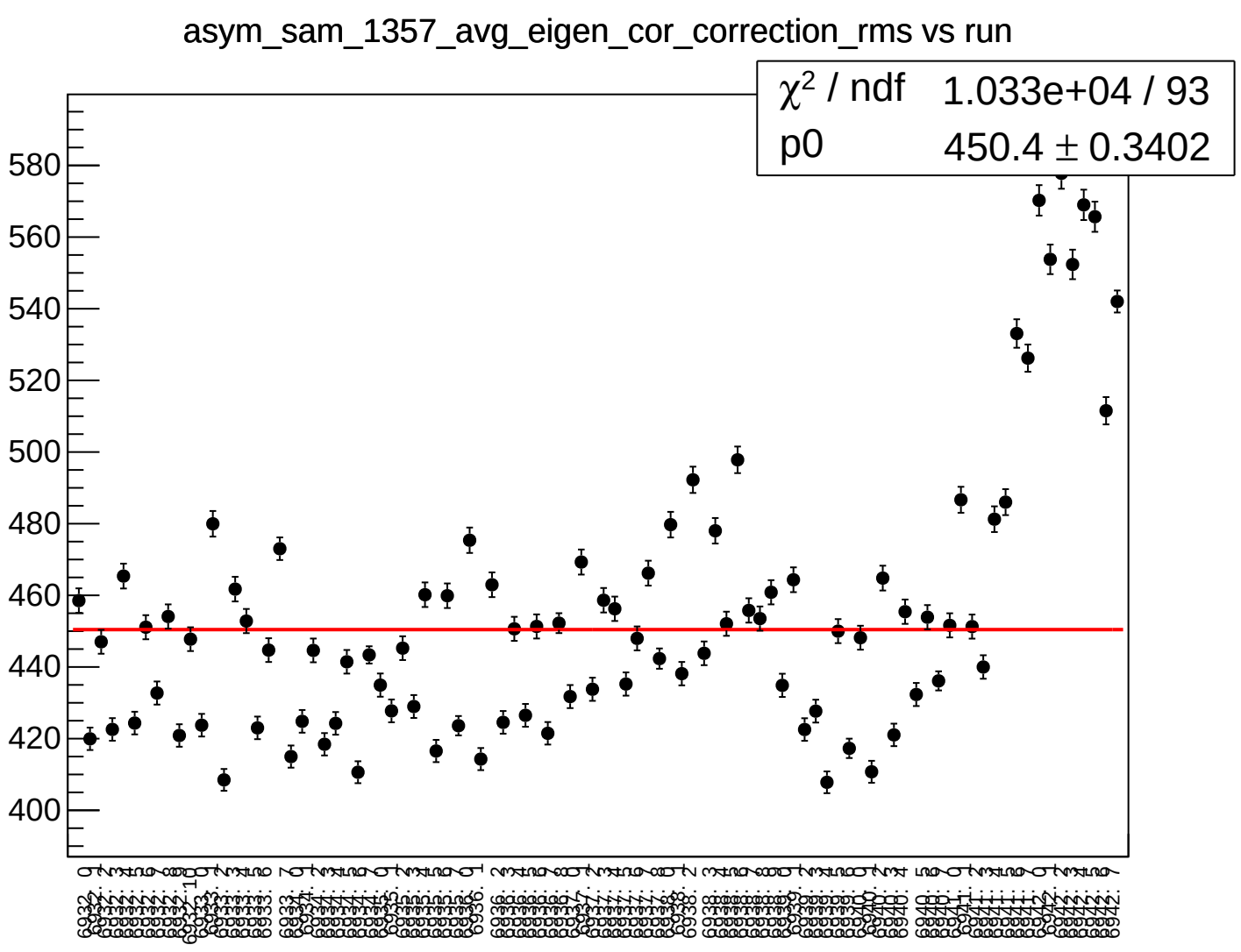

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 93
p0 450.4 ± 0.3402
580
560
540
520
500
480
460
440
420
400

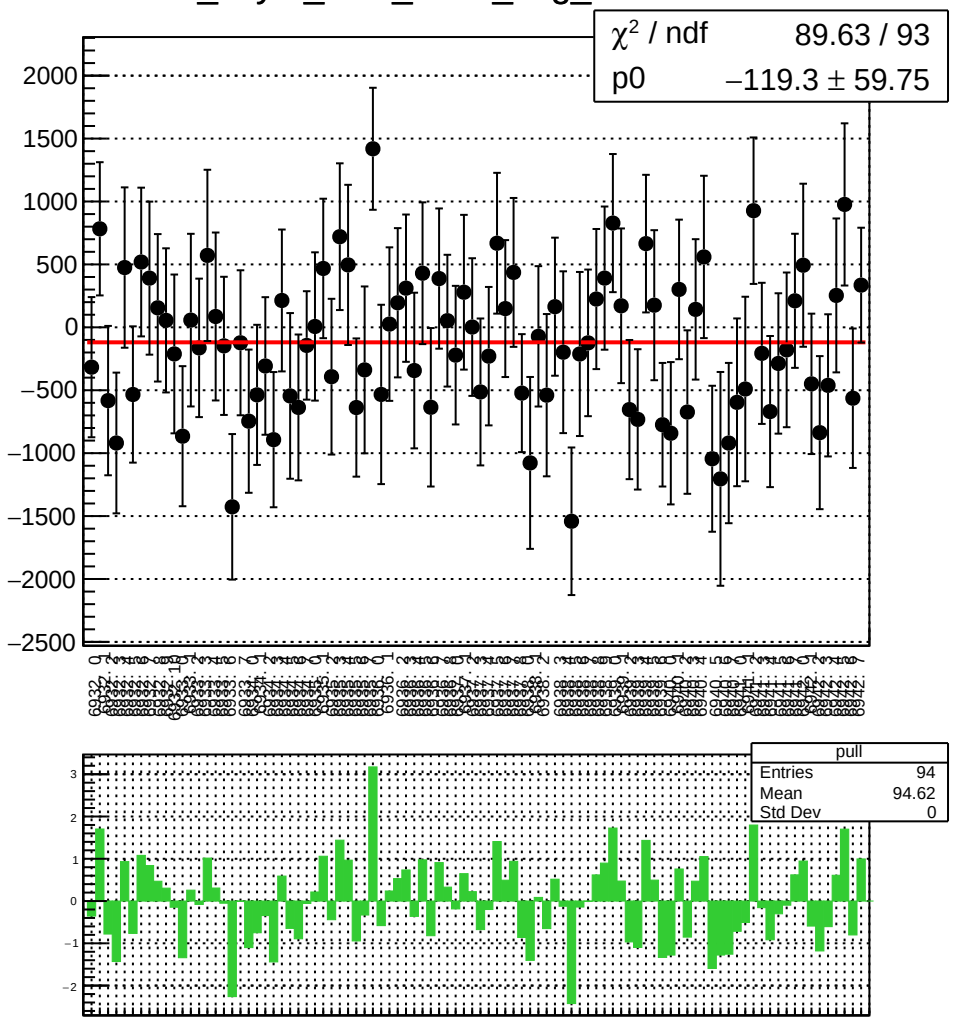

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 96.33 / 93
p0 −134.3 ± 53.12
pull
Entries 94
Mean 179.6
Std Dev 0

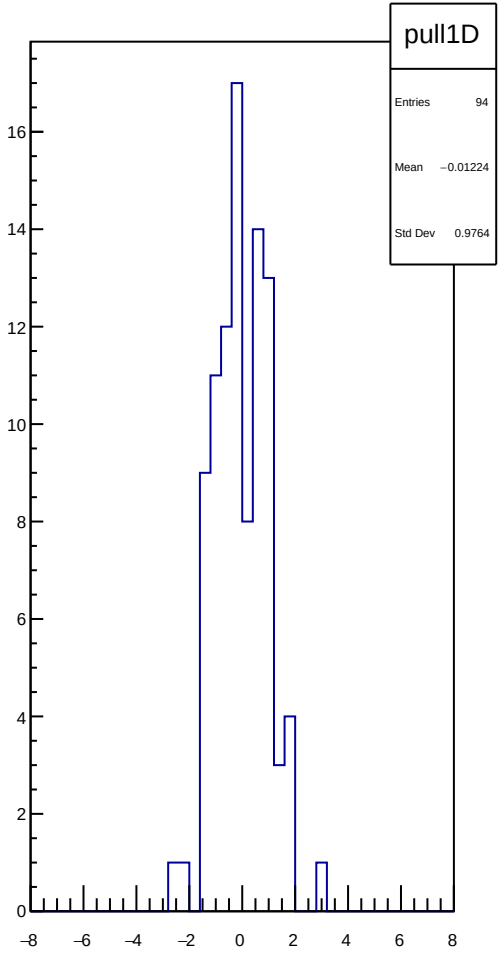

pull1D
Entries 94
Mean −0.01056
Std Dev 1.012

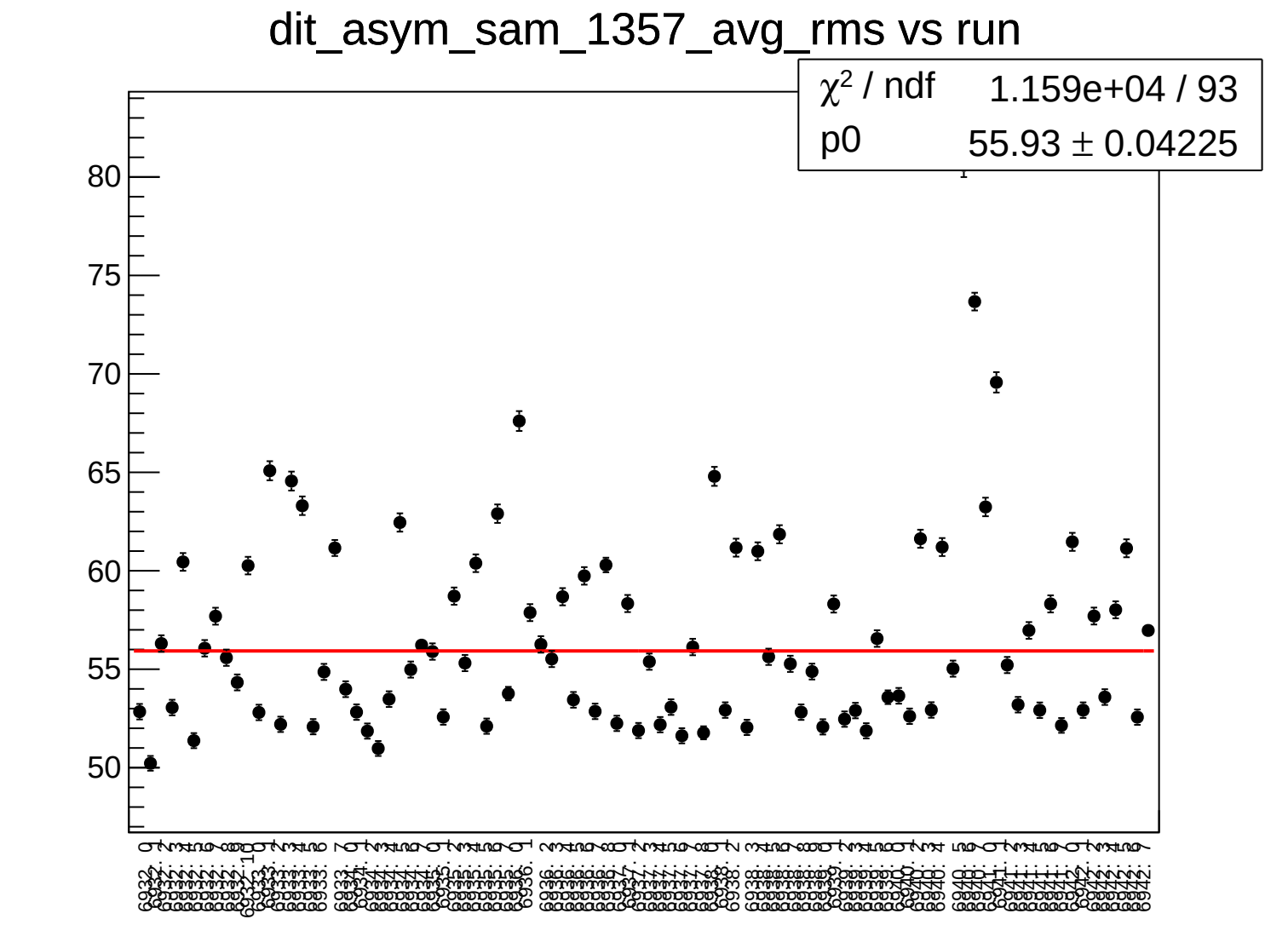

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3158 / 93
p0 49.84 ± 0.03756
58
56
54
52
50
48
46

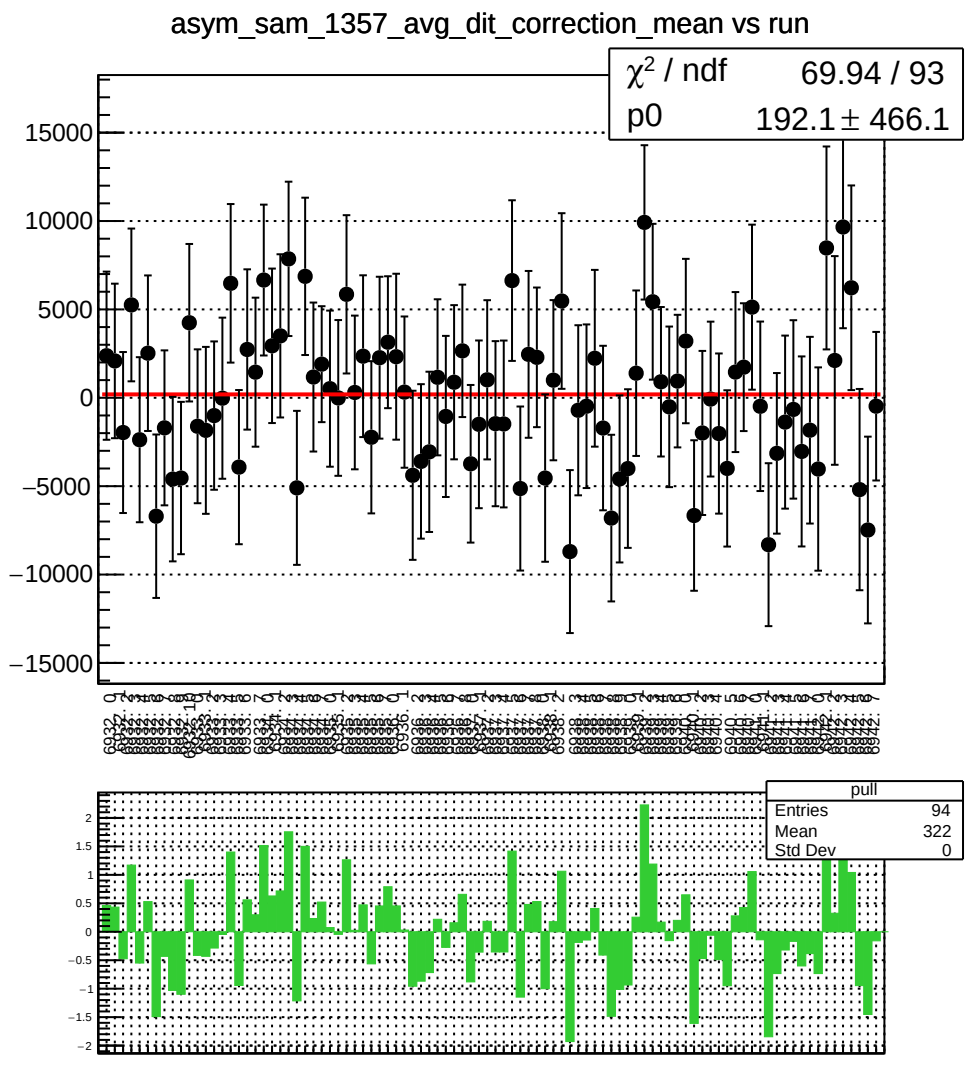

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.18 / 93
p0 187 ± 481.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 307.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.009065
Std Dev 0.864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

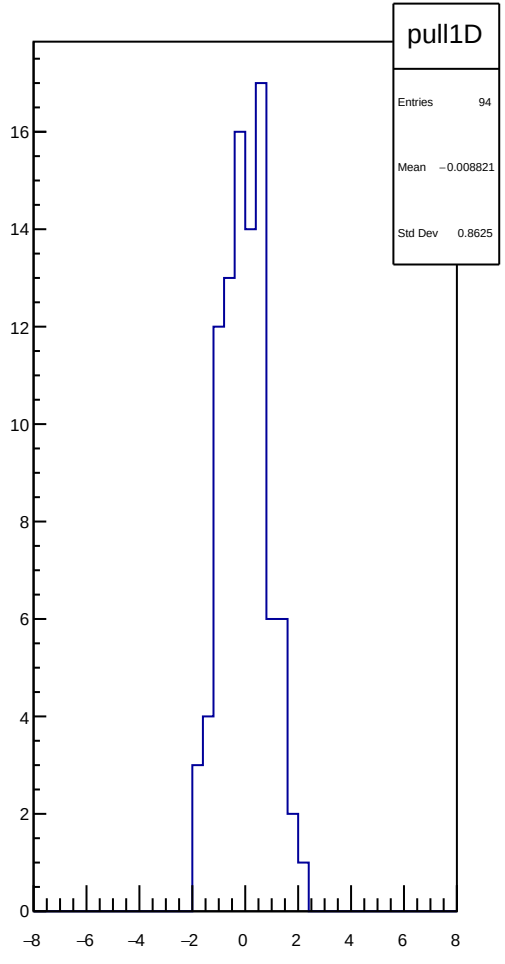

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.033e+04 / 93
p0 450.4 ± 0.3402
580
560
540
520
500
480
460
440
420
400

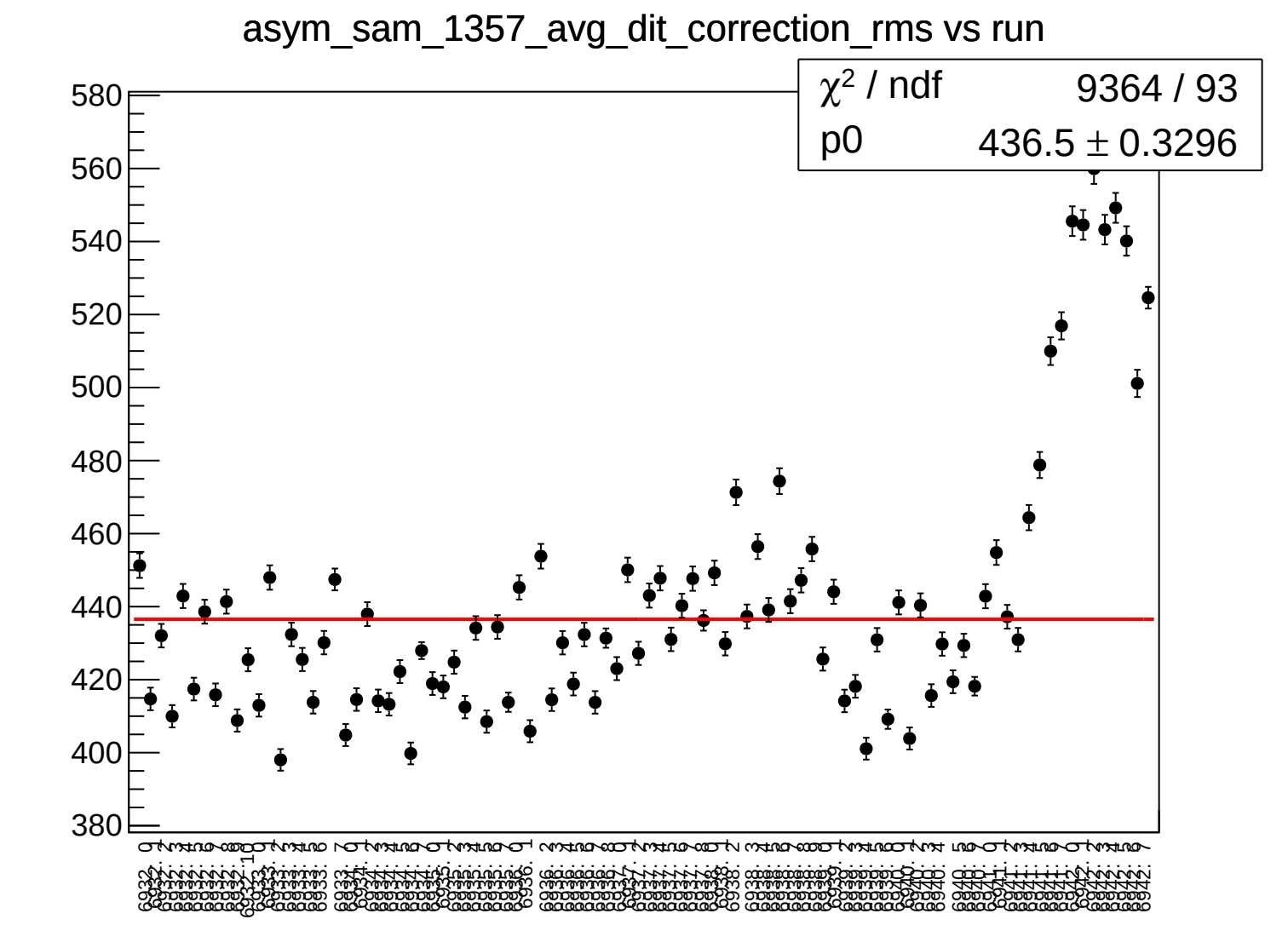

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 89.63 / 93
p0 −119.3 ± 59.75
pull
Entries 94
Mean 94.62
Std Dev 0

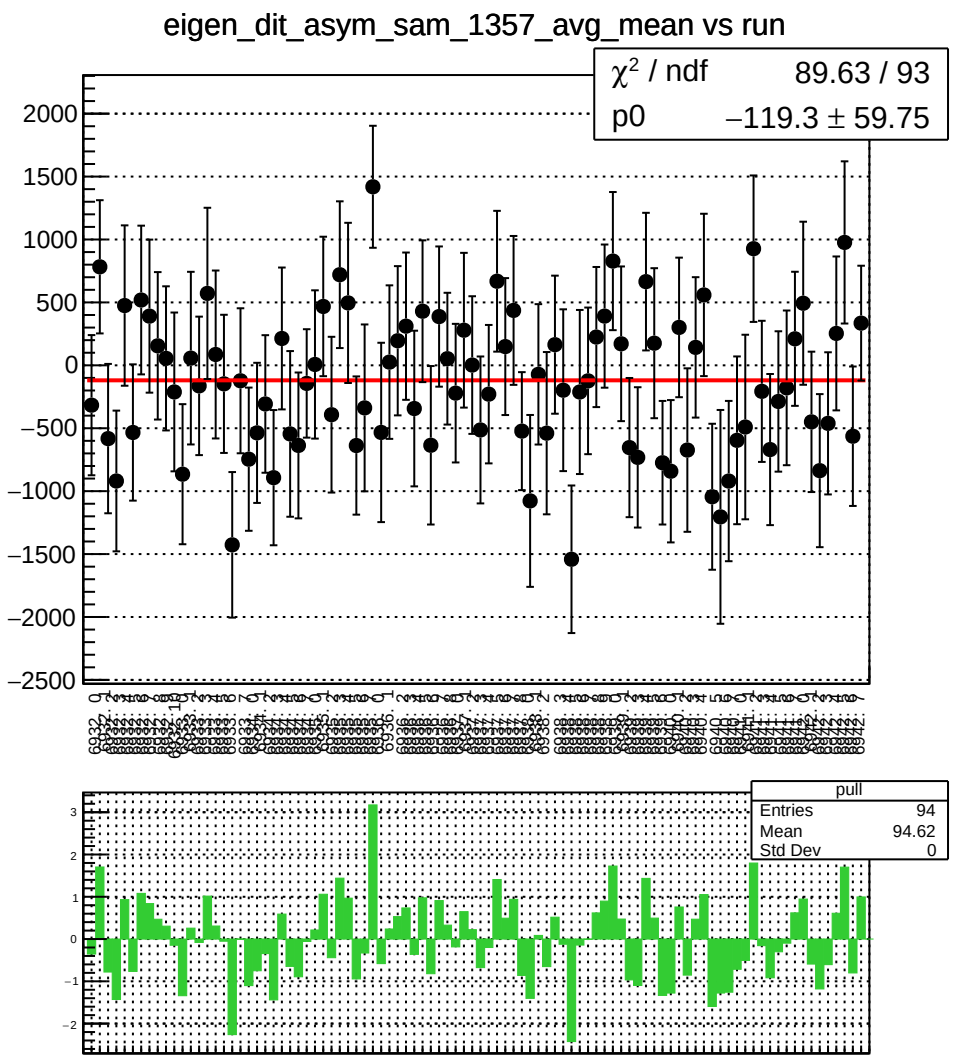

pull1D
Entries 94
Mean −0.01224
Std Dev 0.9764

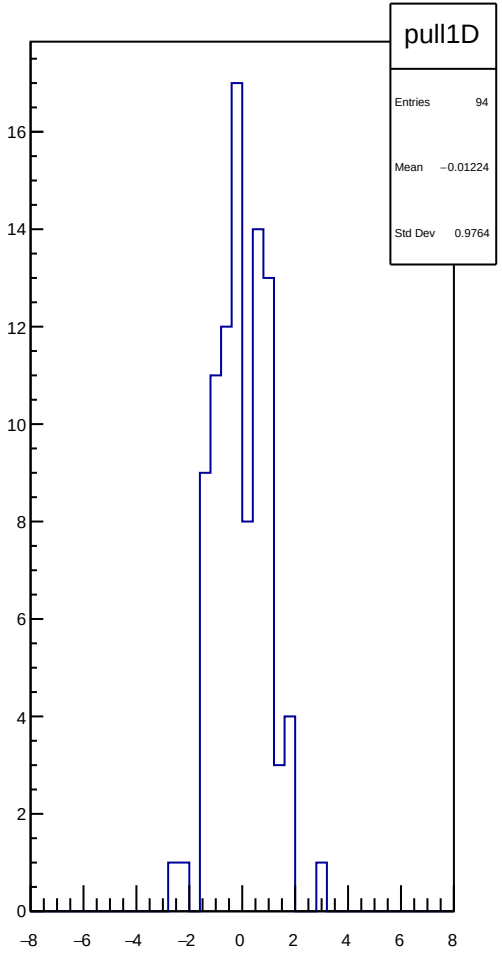

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.159e+04 / 93
p0 55.93 ± 0.04225
80
75
70
65
60
55
50

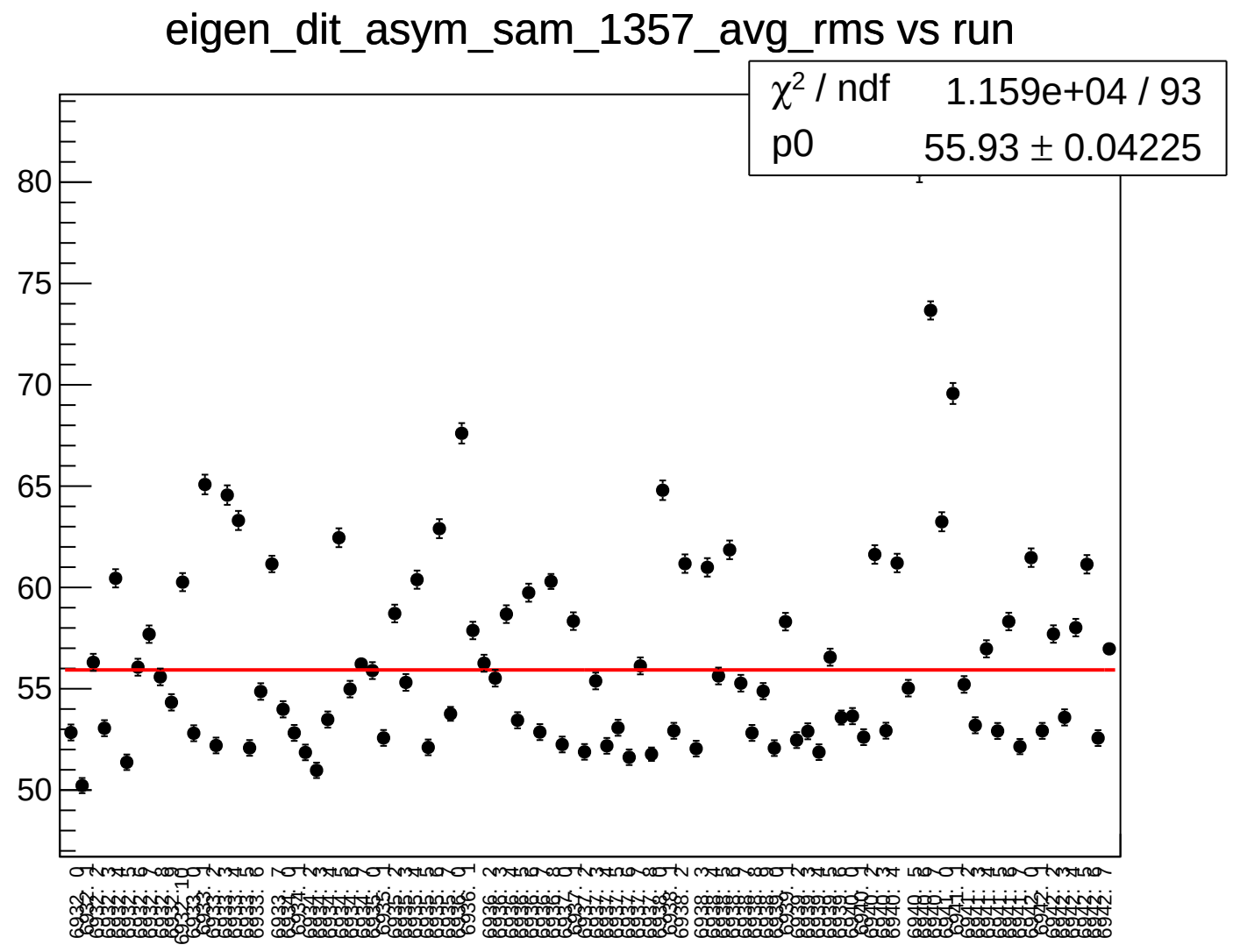

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 69.94 / 93
p0 192.1 ± 466.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 322
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

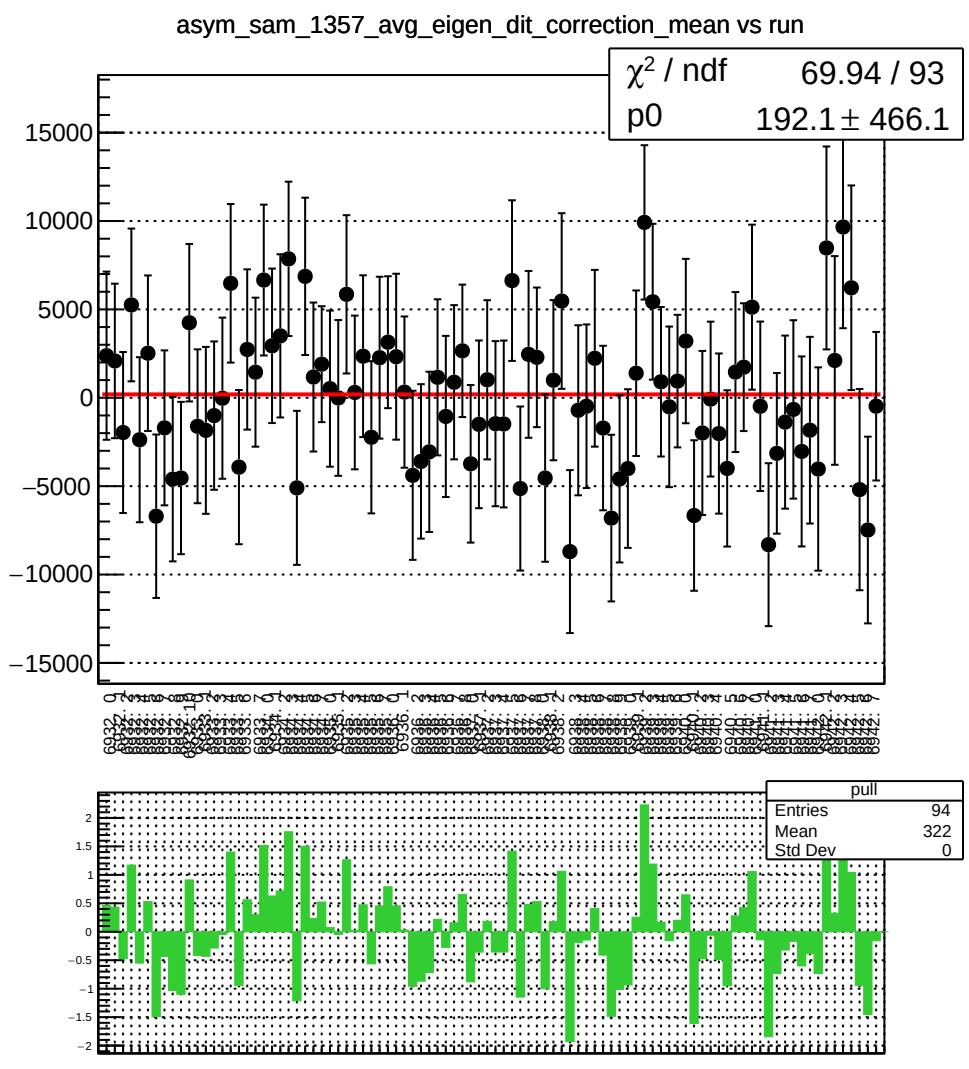

pull1D
Entries 94
Mean −0.008821
Std Dev 0.8625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

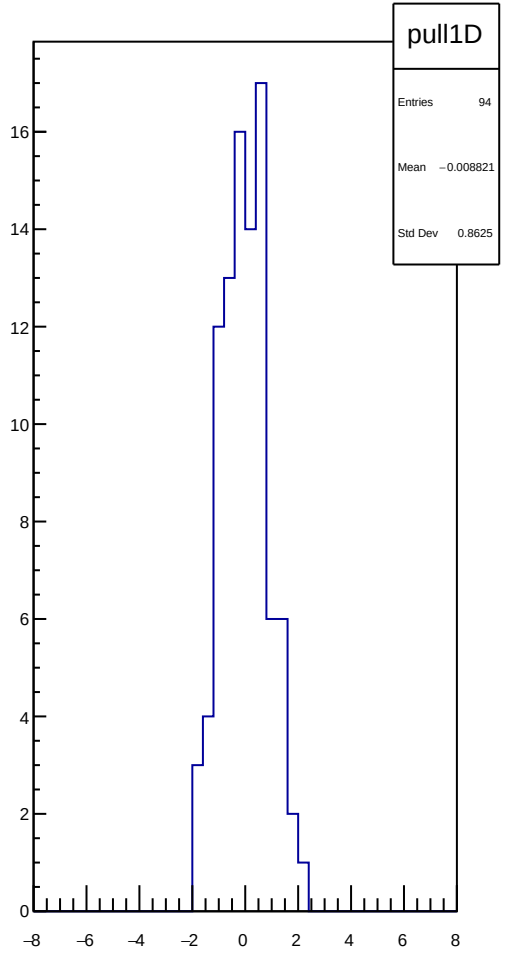

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 9364 / 93
p0 436.5 ± 0.3296
580
560
540
520
500
480
460
440
420
400
380

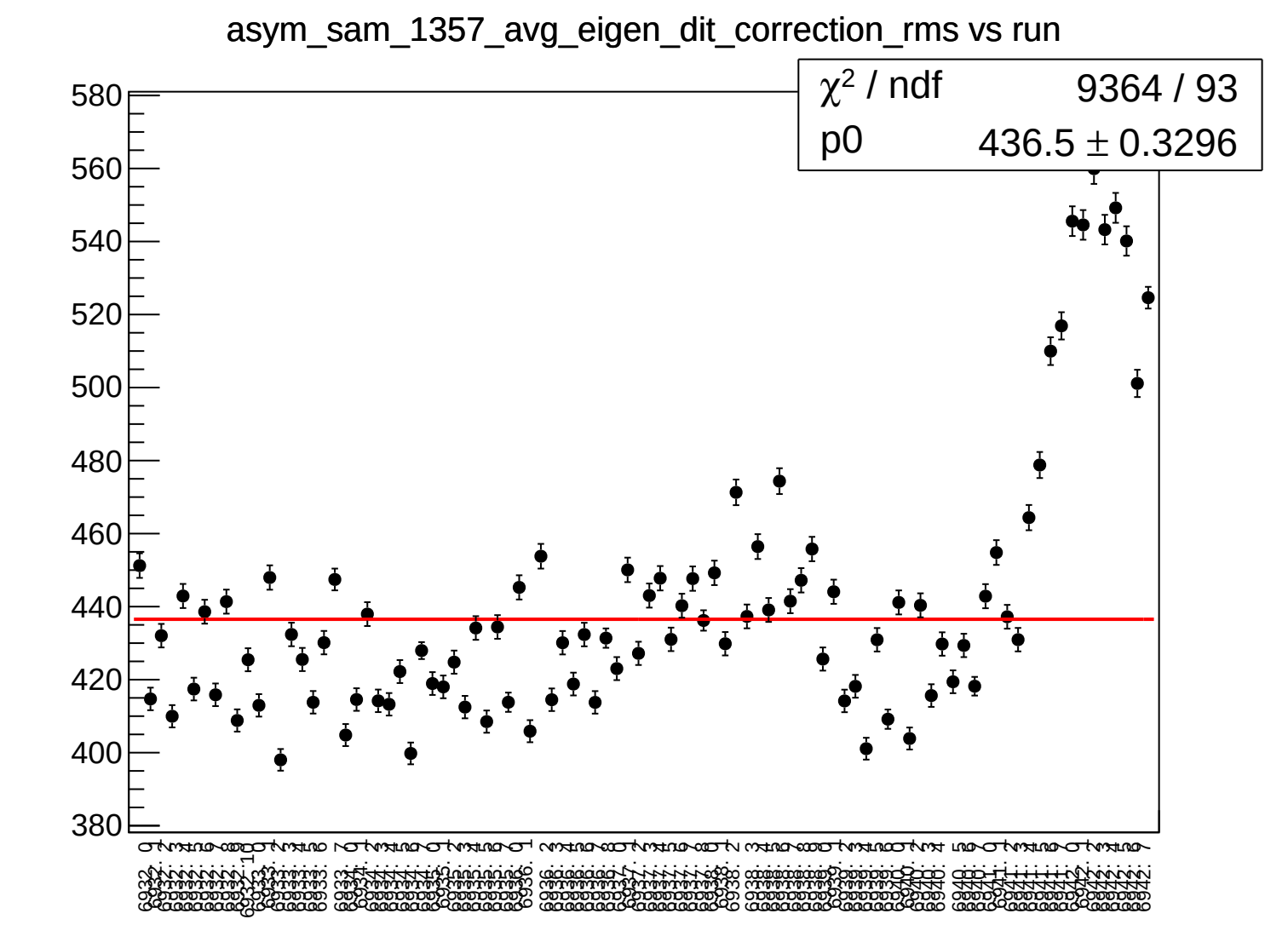

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 89.63 / 93
p0 −119.3 ± 59.75
pull
Entries 94
Mean 94.62
Std Dev 0

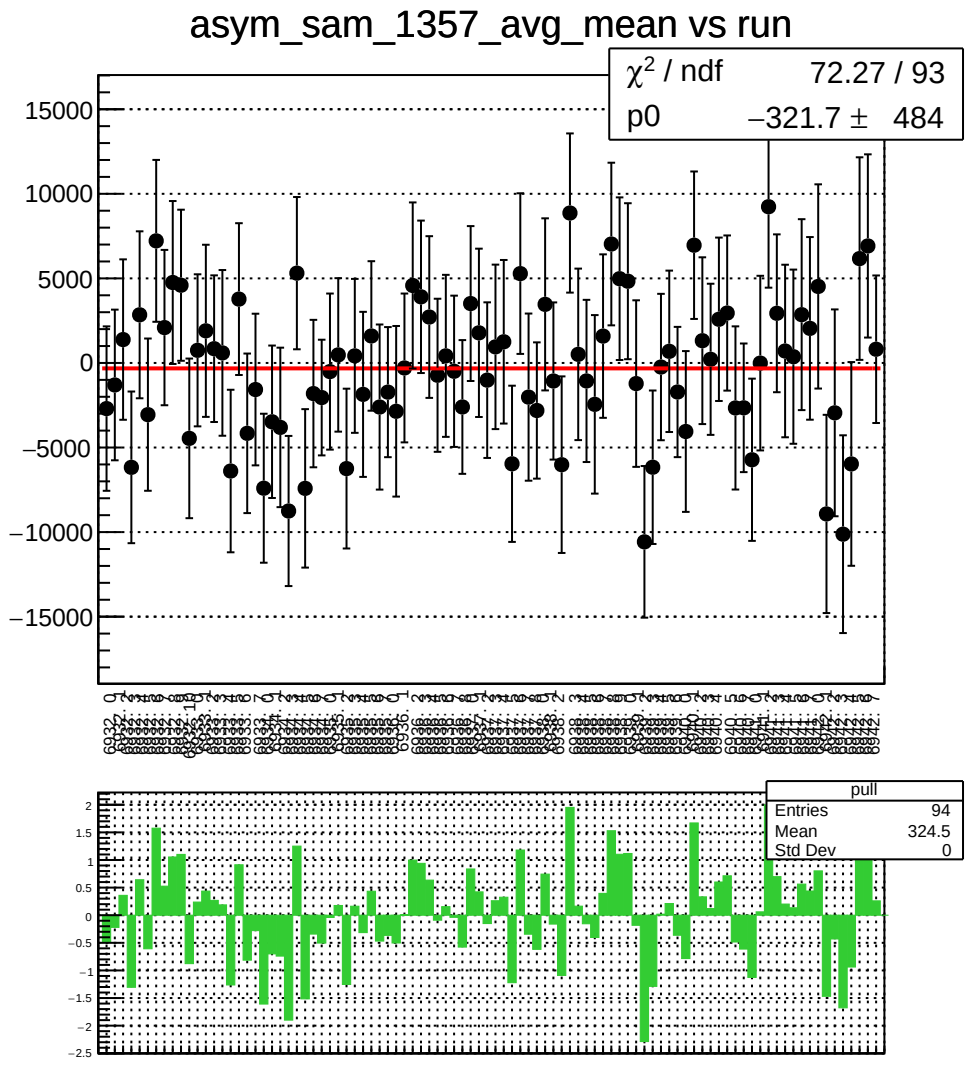

pull1D
Entries 94
Mean −0.01224
Std Dev 0.9764

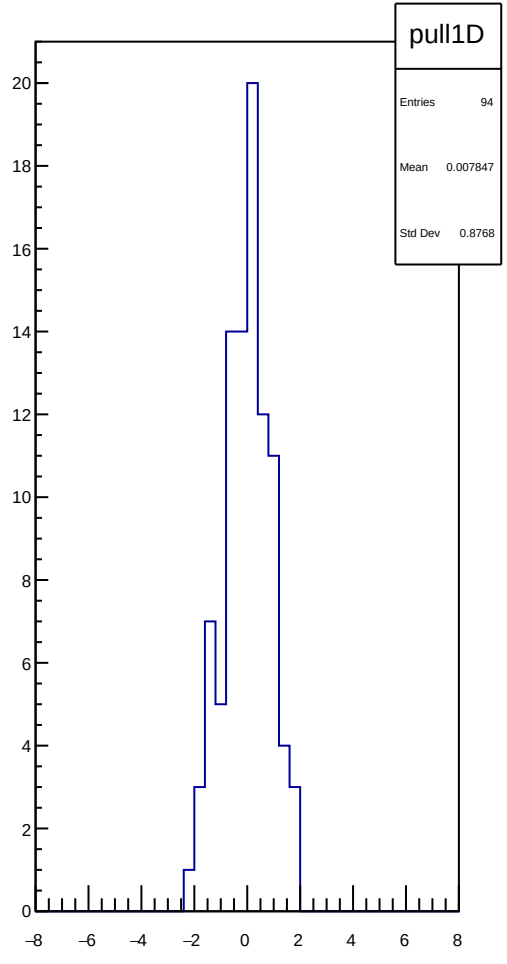

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.159e+04 / 93
p0 55.93 ± 0.04225
80
75
70
65
60
55
50

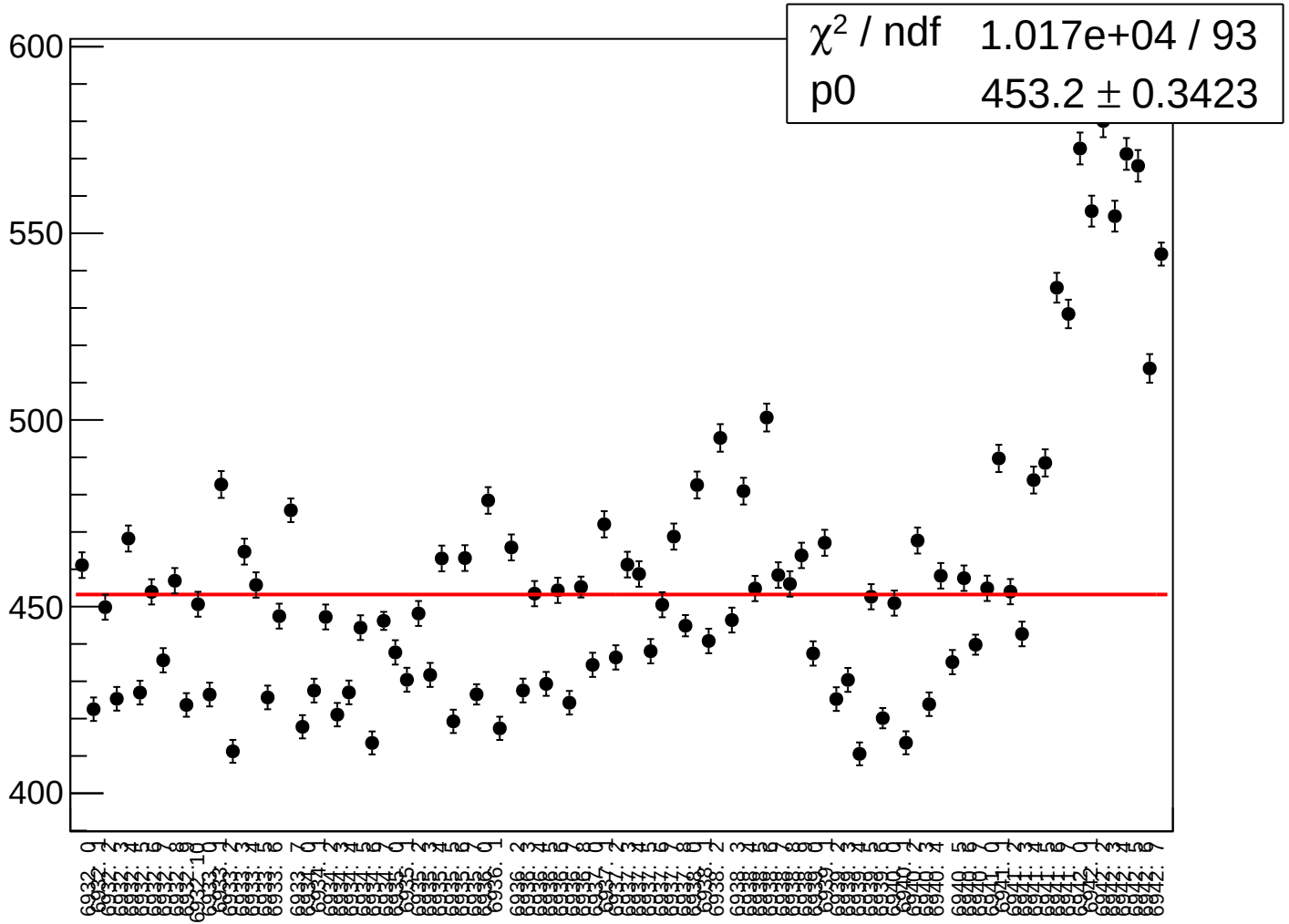

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.94 / 93
p0 192.1 ± 466.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 322
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

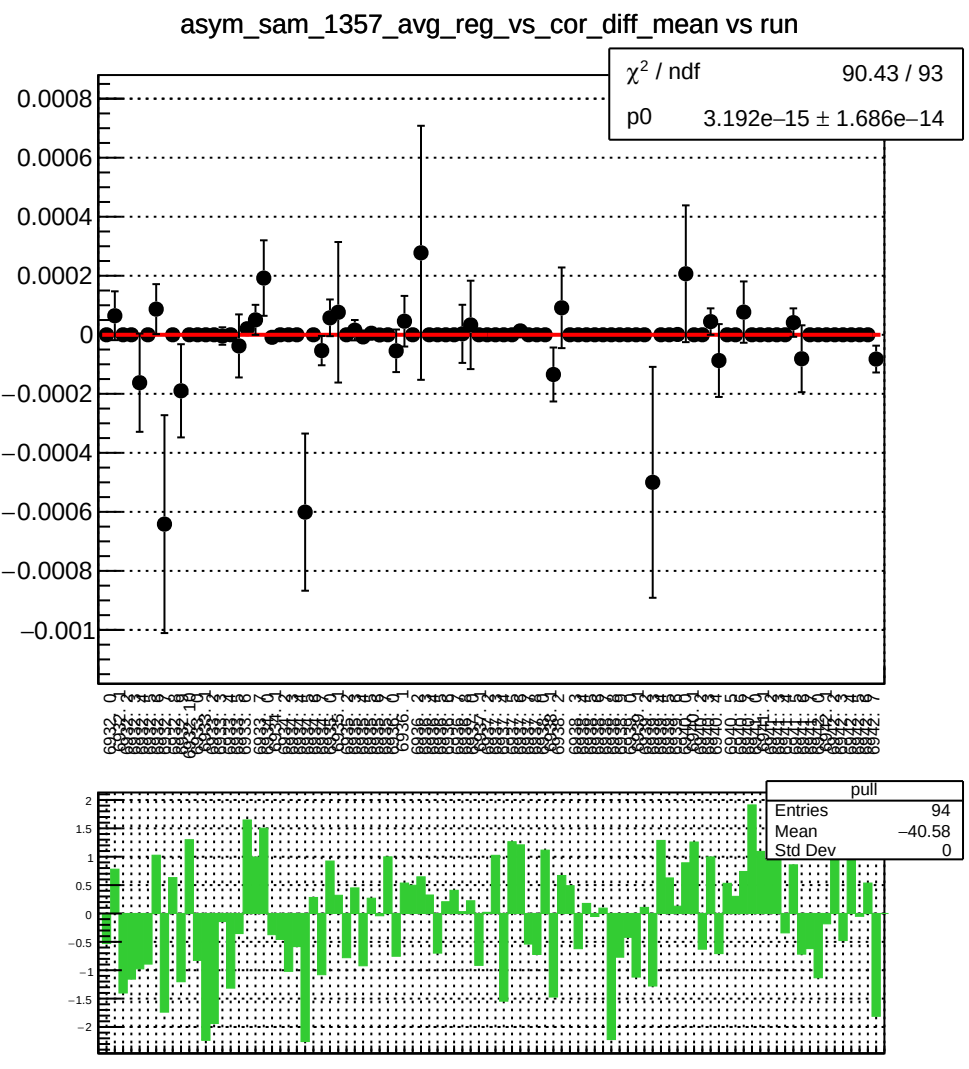

pull1D
Entries 94
Mean −0.008821
Std Dev 0.8625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

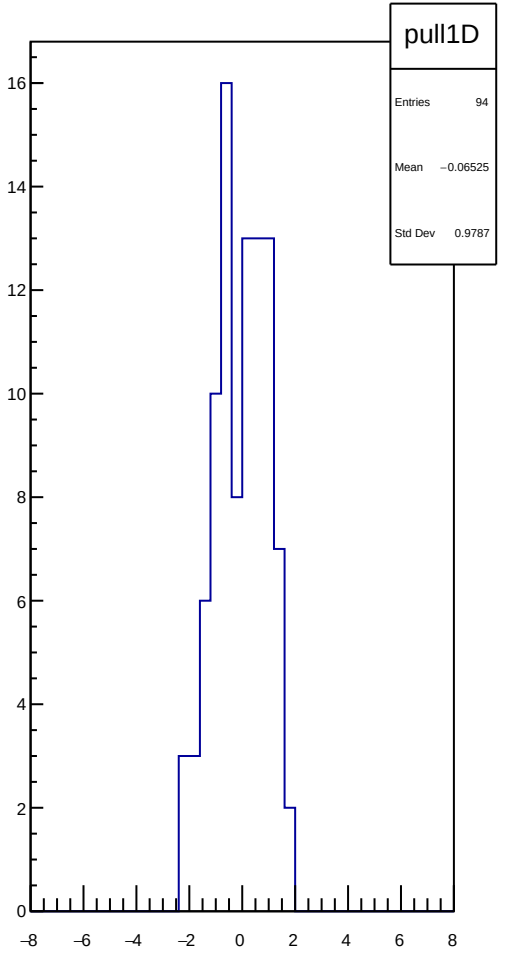

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 9364 / 93
p0 436.5 ± 0.3296
580
560
540
520
500
480
460
440
420
400
380

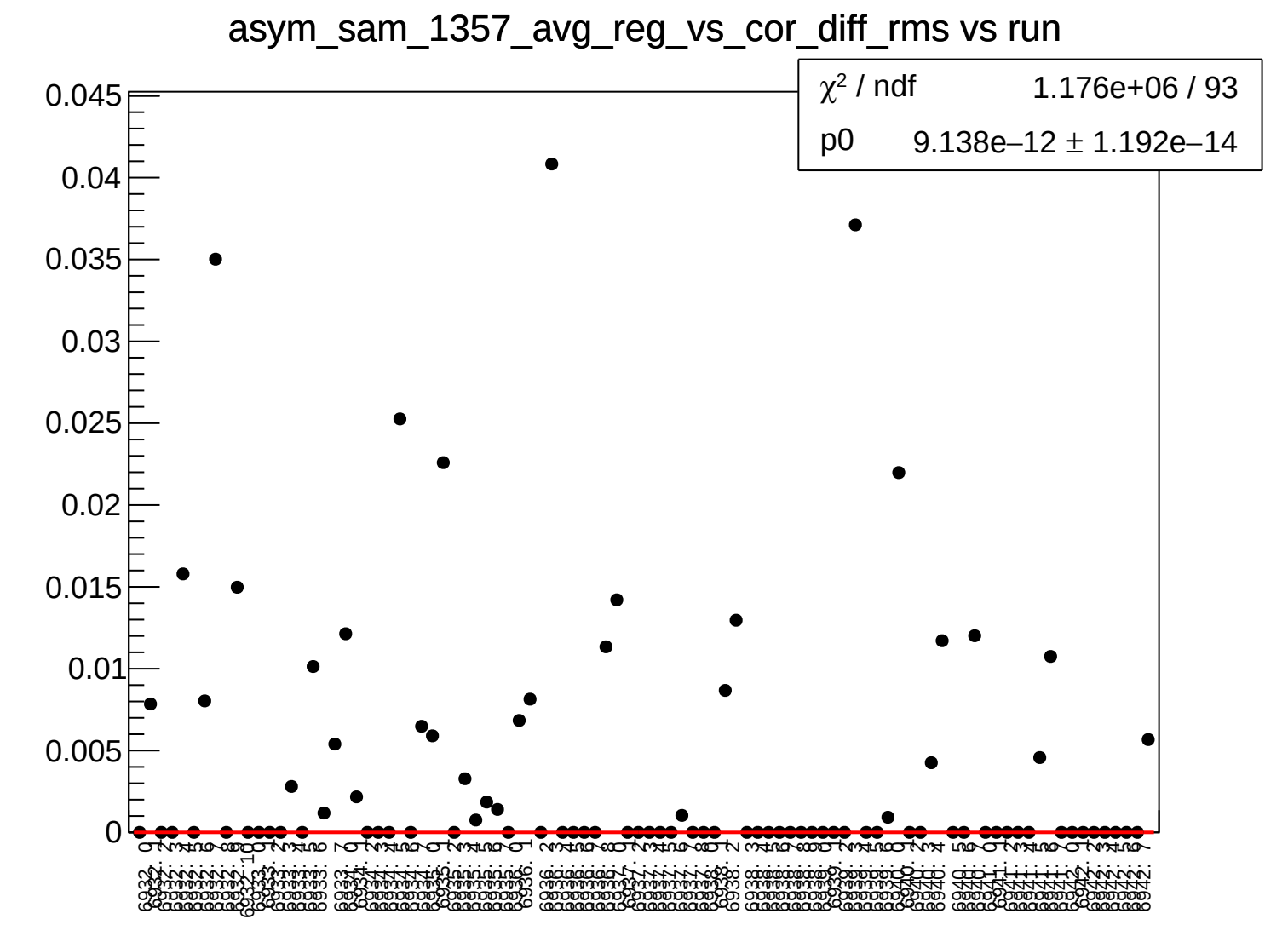

asym_sam_1357_avg_mean vs run
χ² / ndf 72.27 / 93
p0 −321.7 ± 484
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 324.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

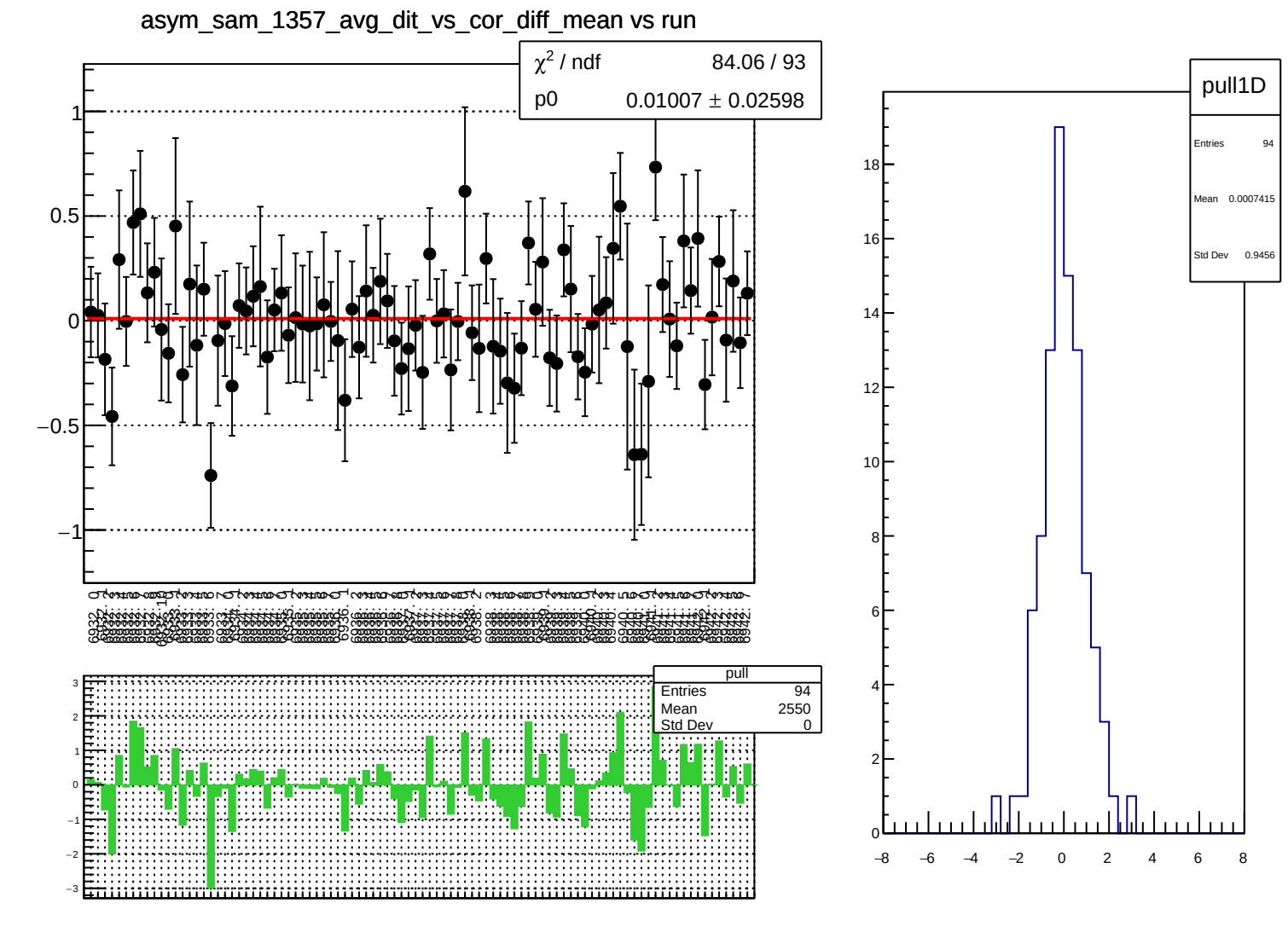

pull1D
Entries 94
Mean 0.007847
Std Dev 0.8768
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

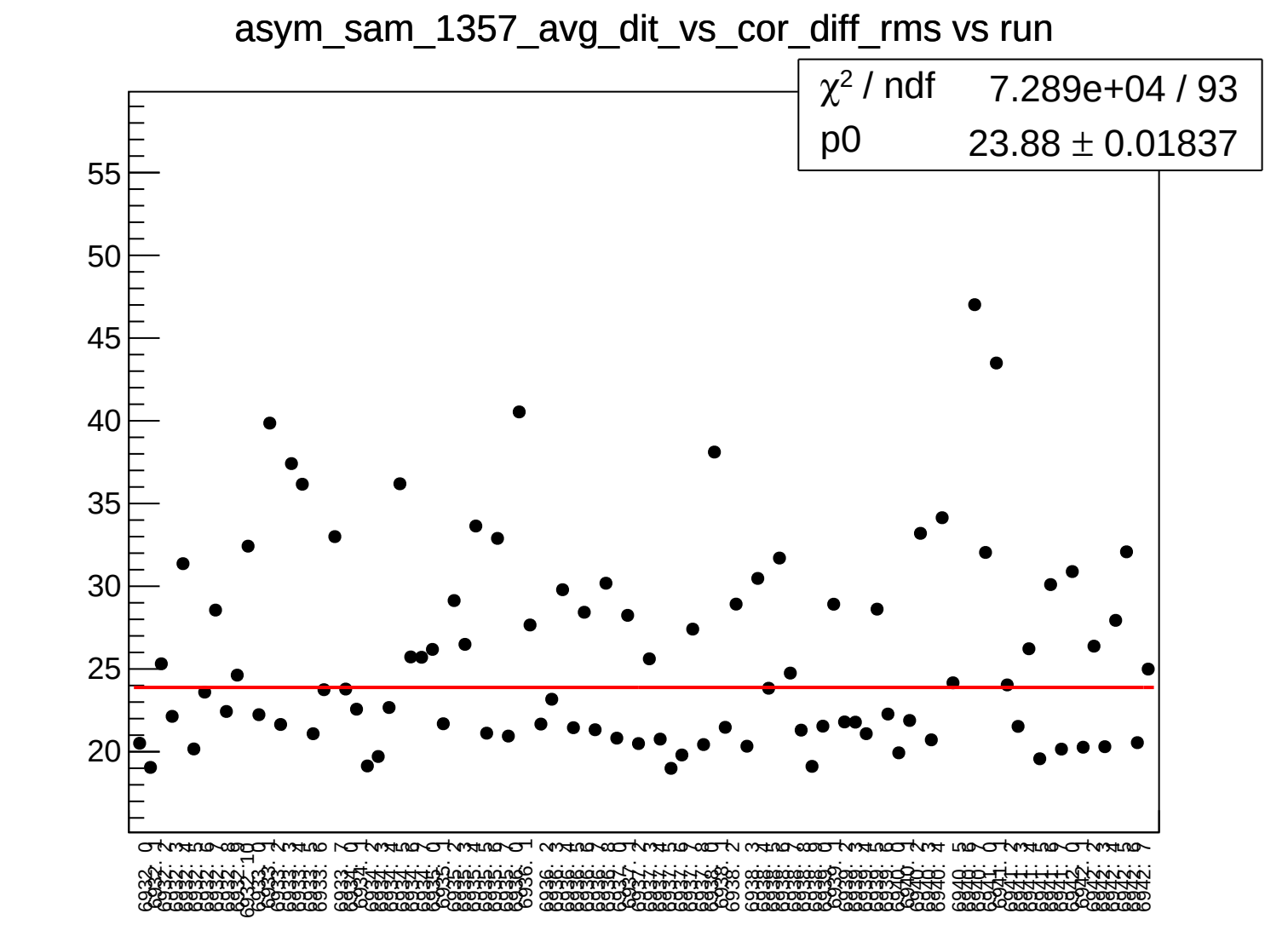

asym_sam_1357_avg_rms vs run
χ² / ndf 1.017e+04 / 93
p0 453.2 ± 0.3423
600
550
500
450
400

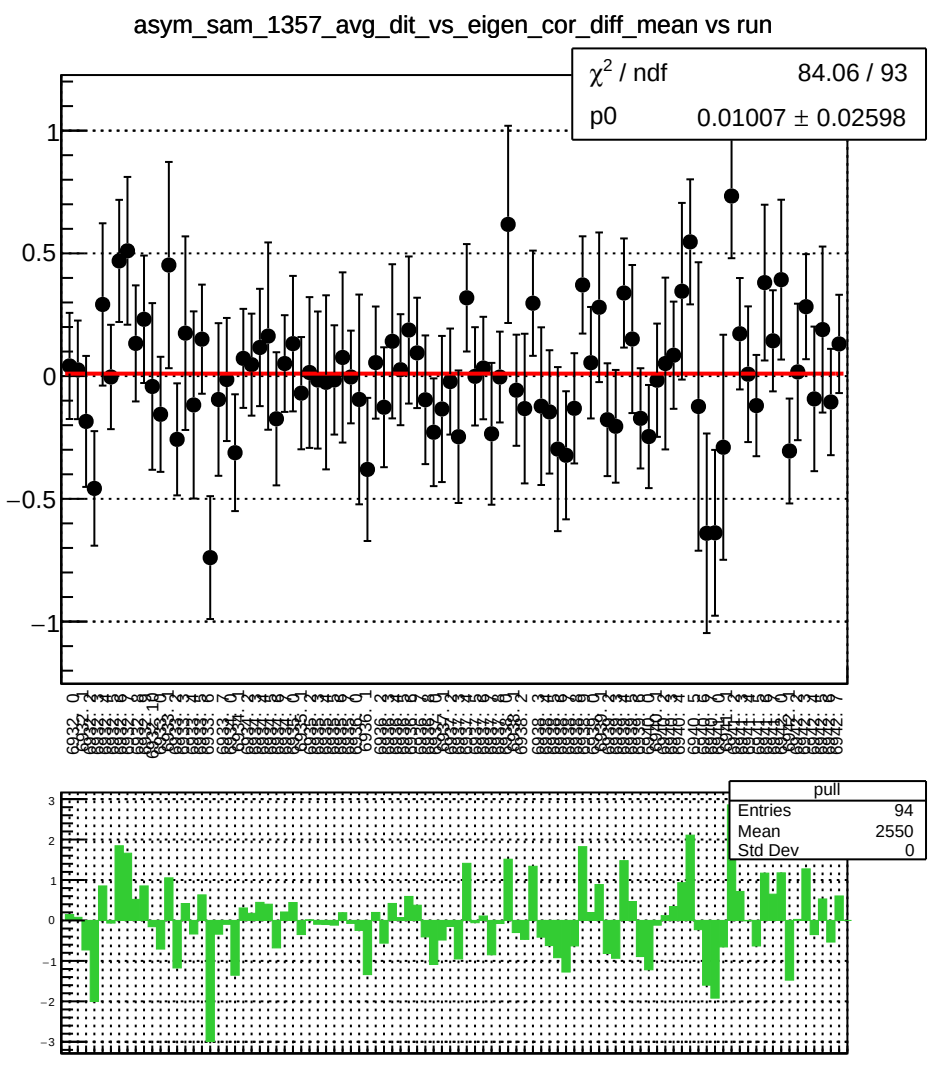

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.43 / 93
p0 3.192e−15 ± 1.686e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 94
Mean −40.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

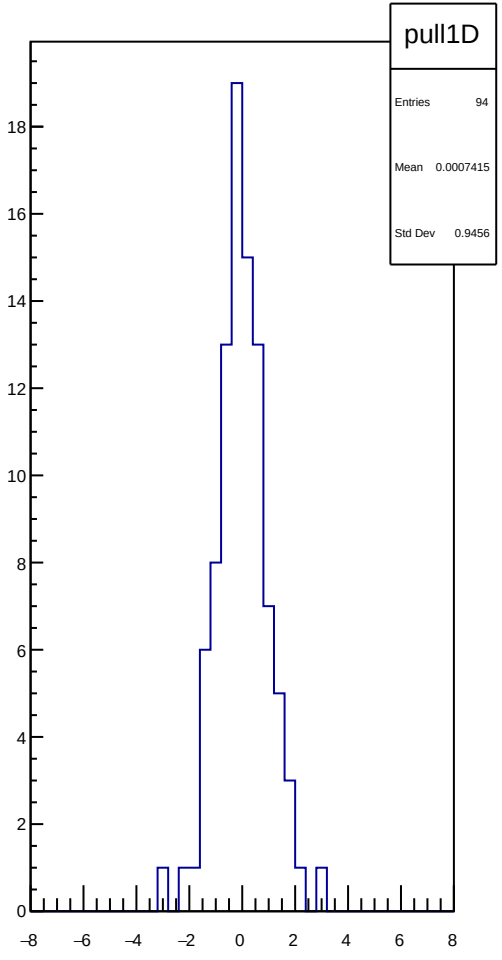

pull1D
Entries 94
Mean −0.06525
Std Dev 0.9787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

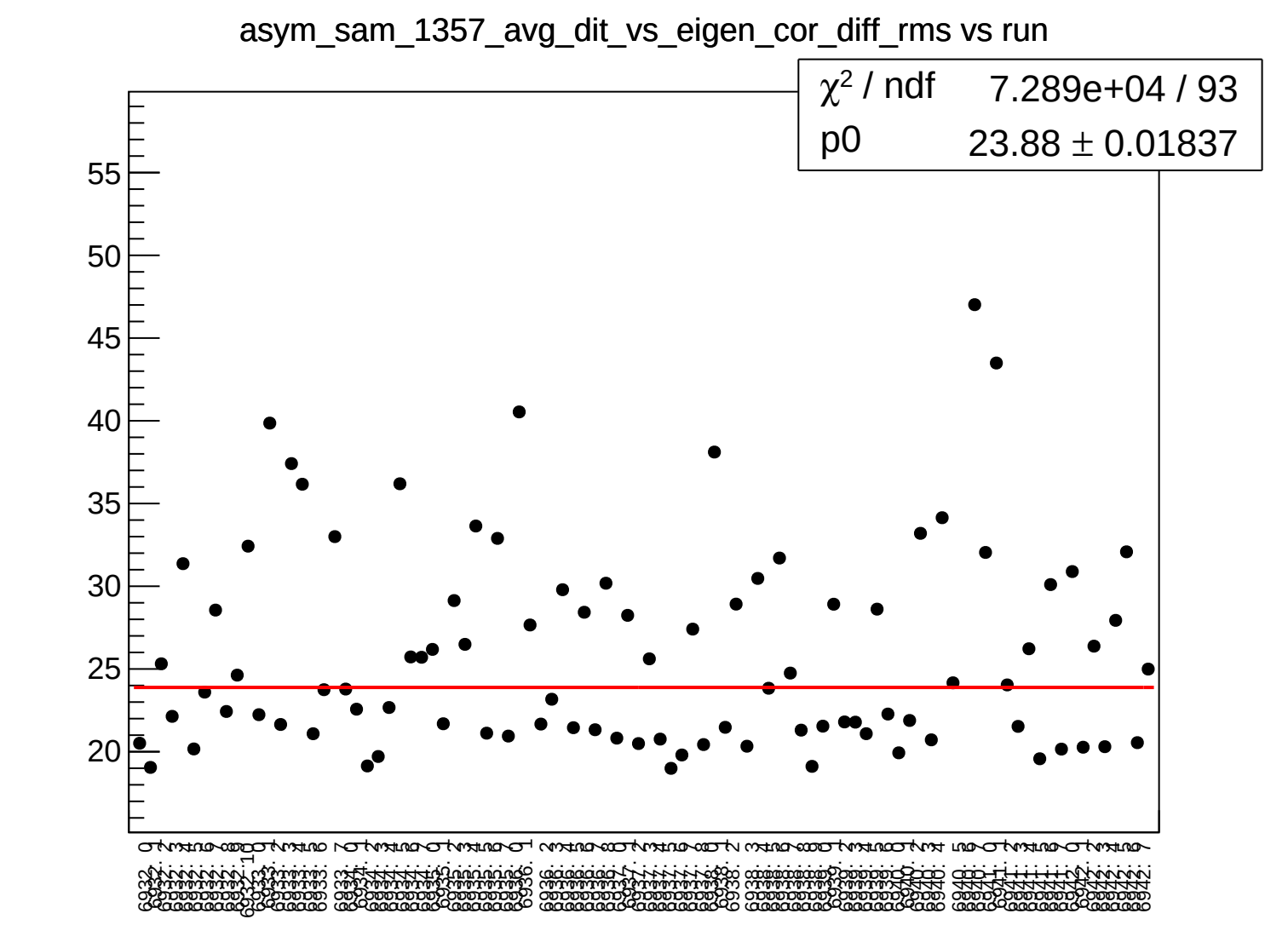

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 93
p0 9.138e−12 ± 1.192e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

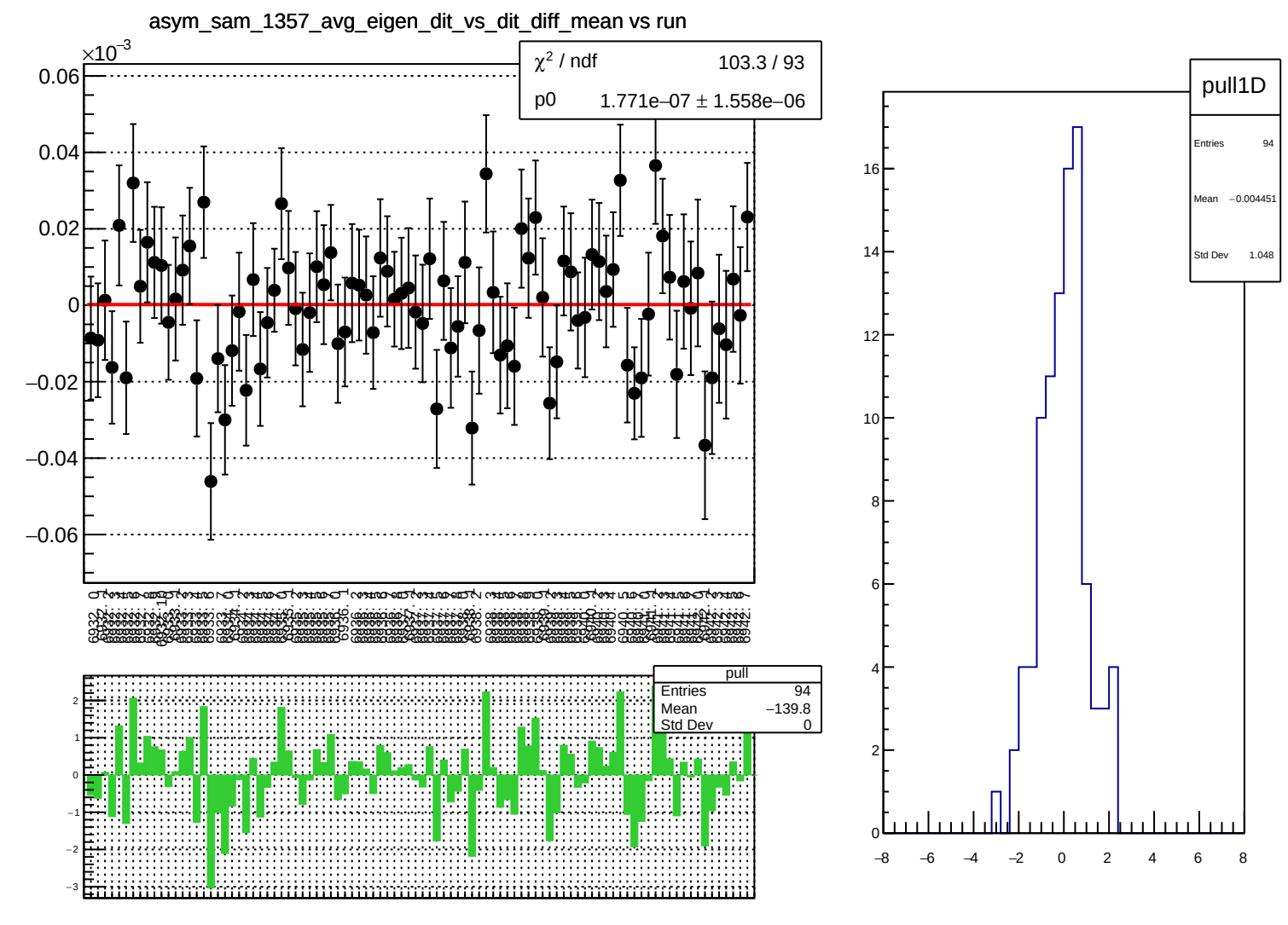

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.06 / 93
p0 0.01007 ± 0.02598
pull
Entries 94
Mean 2550
Std Dev 0
pull1D
Entries 94
Mean 0.0007415
Std Dev 0.9456

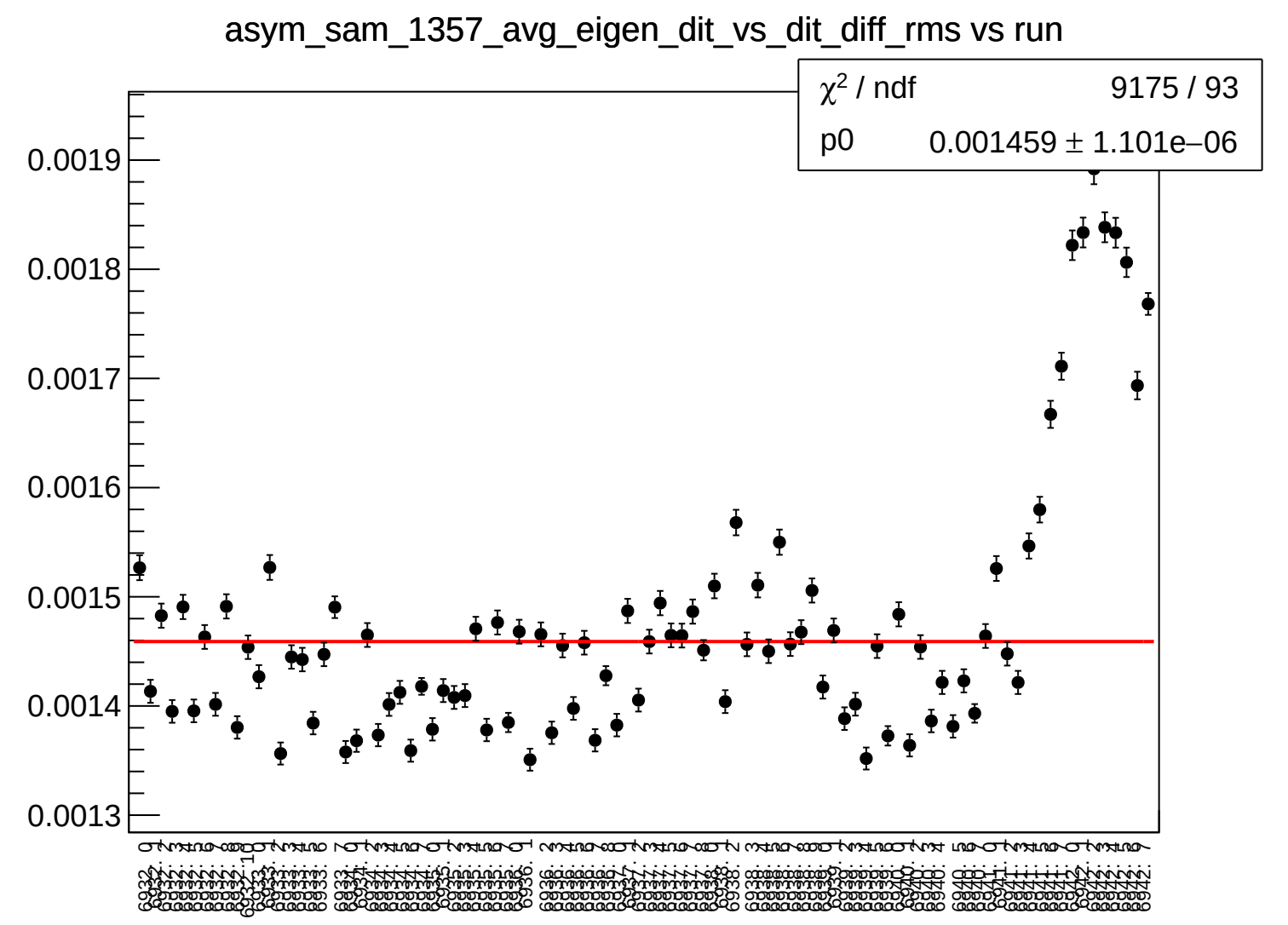

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.289e+04 / 93
p0 23.88 ± 0.01837
55
50
45
40
35
30
25
20

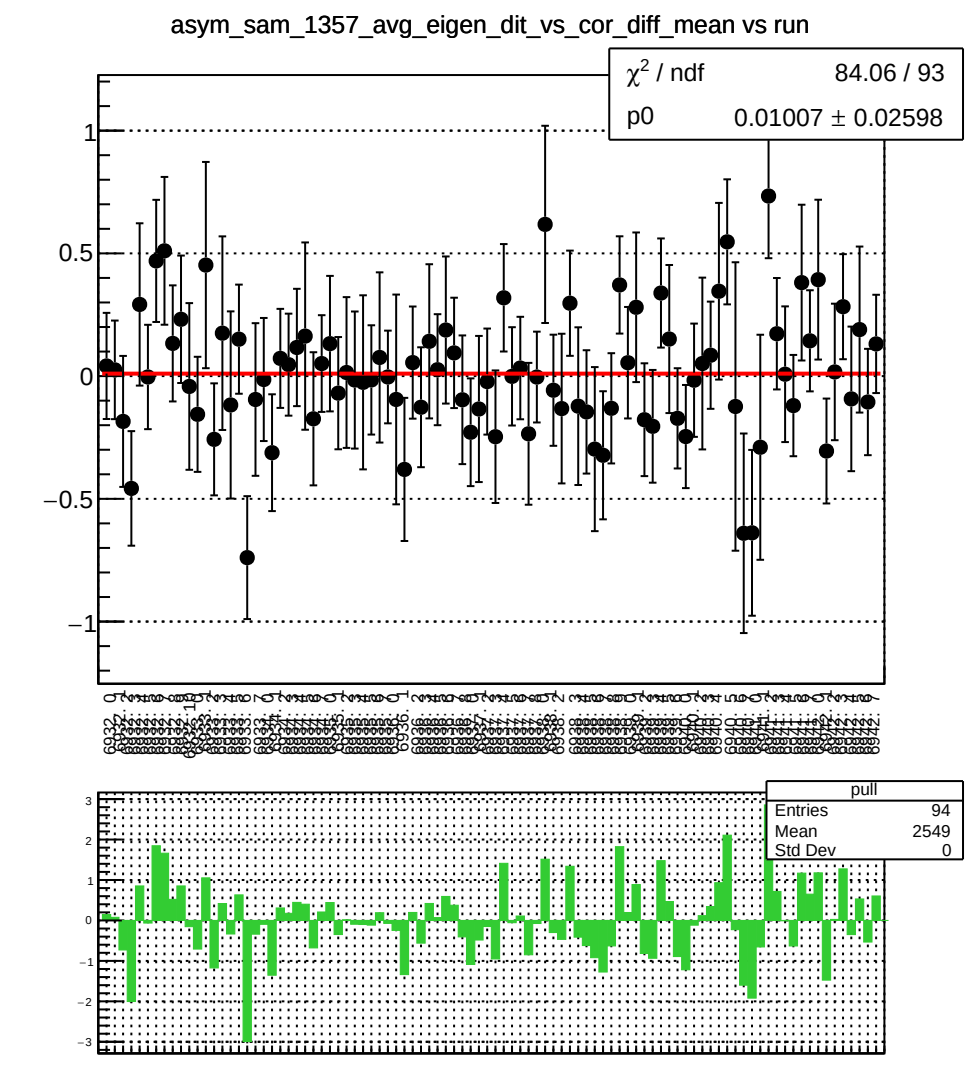

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.06 / 93
p0 0.01007 ± 0.02598
pull
Entries 94
Mean 2550
Std Dev 0

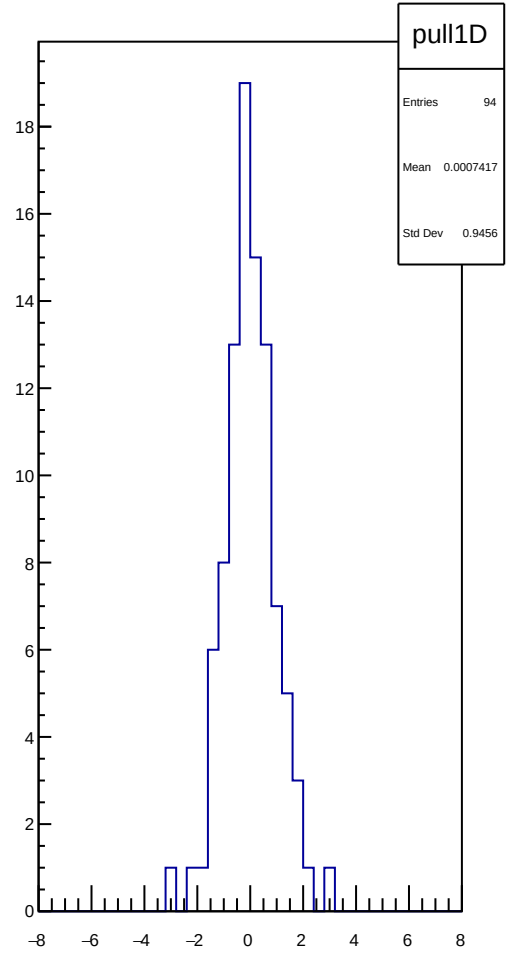

pull1D
Entries 94
Mean 0.0007415
Std Dev 0.9456

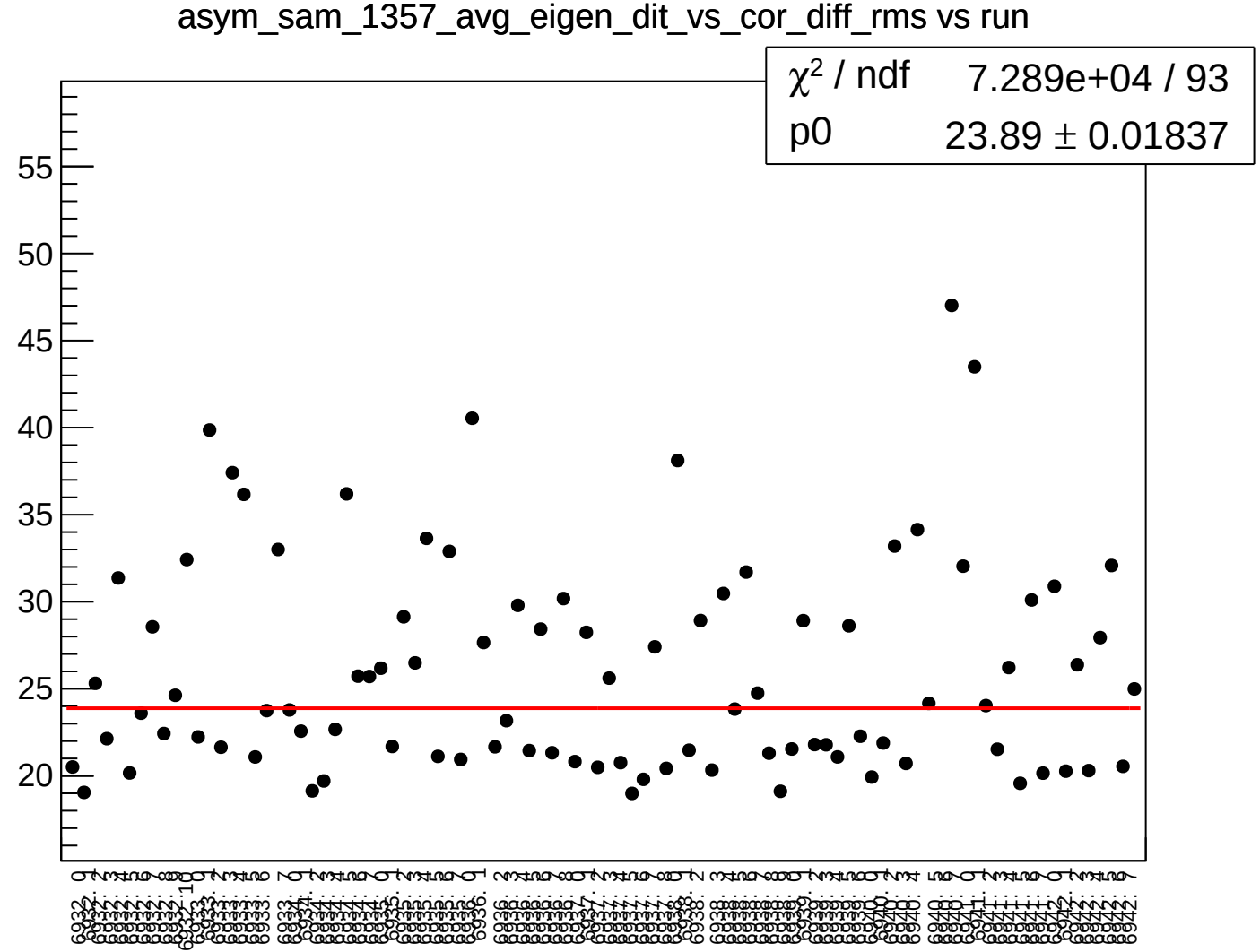

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.289e+04 / 93
p0 23.88 ± 0.01837
55
50
45
40
35
30
25
20

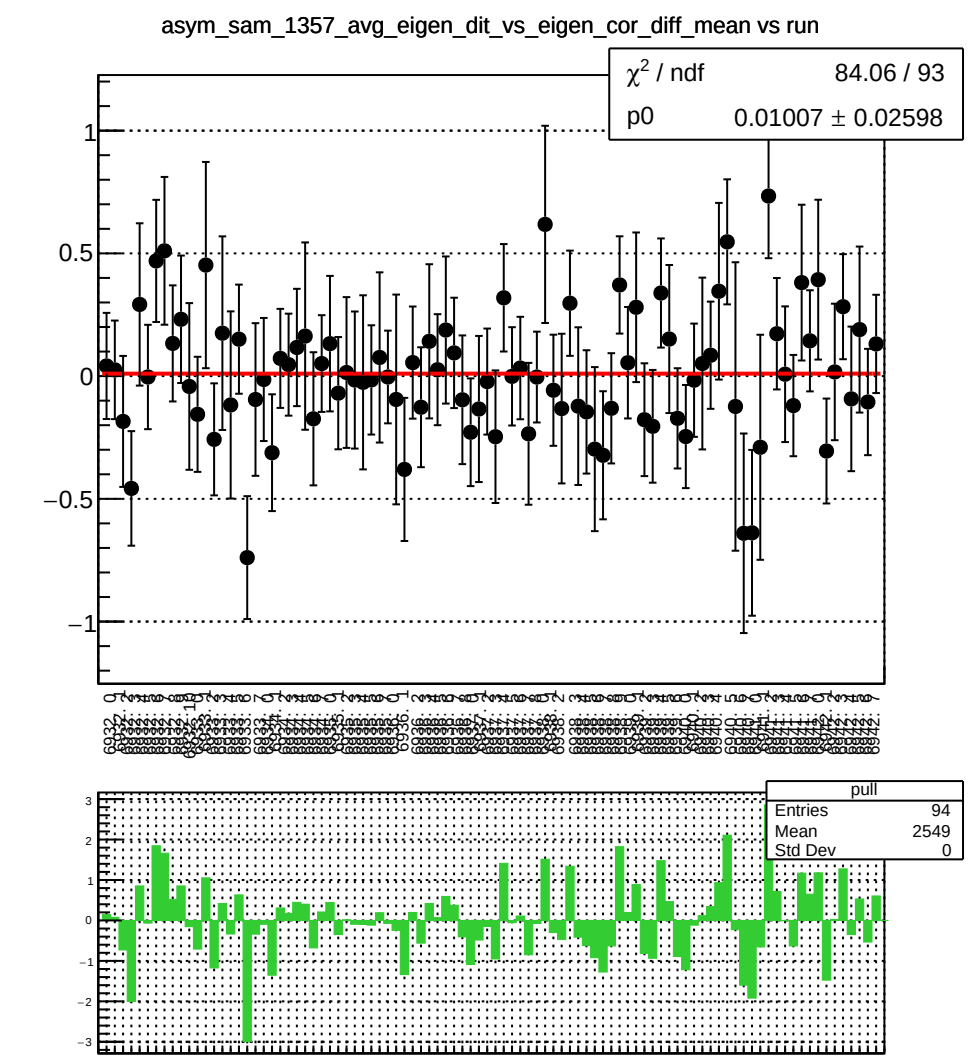

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.3 / 93
p0 1.771e−07 ± 1.558e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −139.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.004451
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

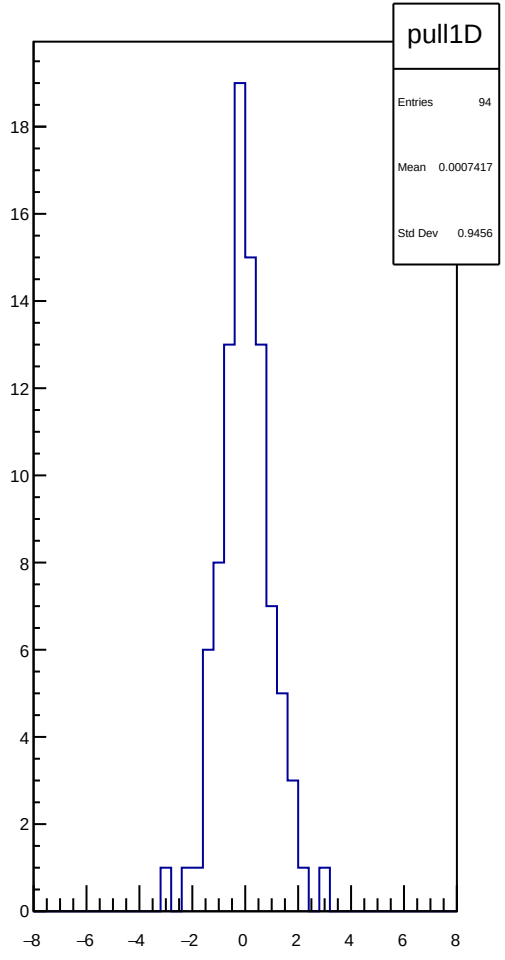

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9175 / 93
p0 0.001459 ± 1.101e−06
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

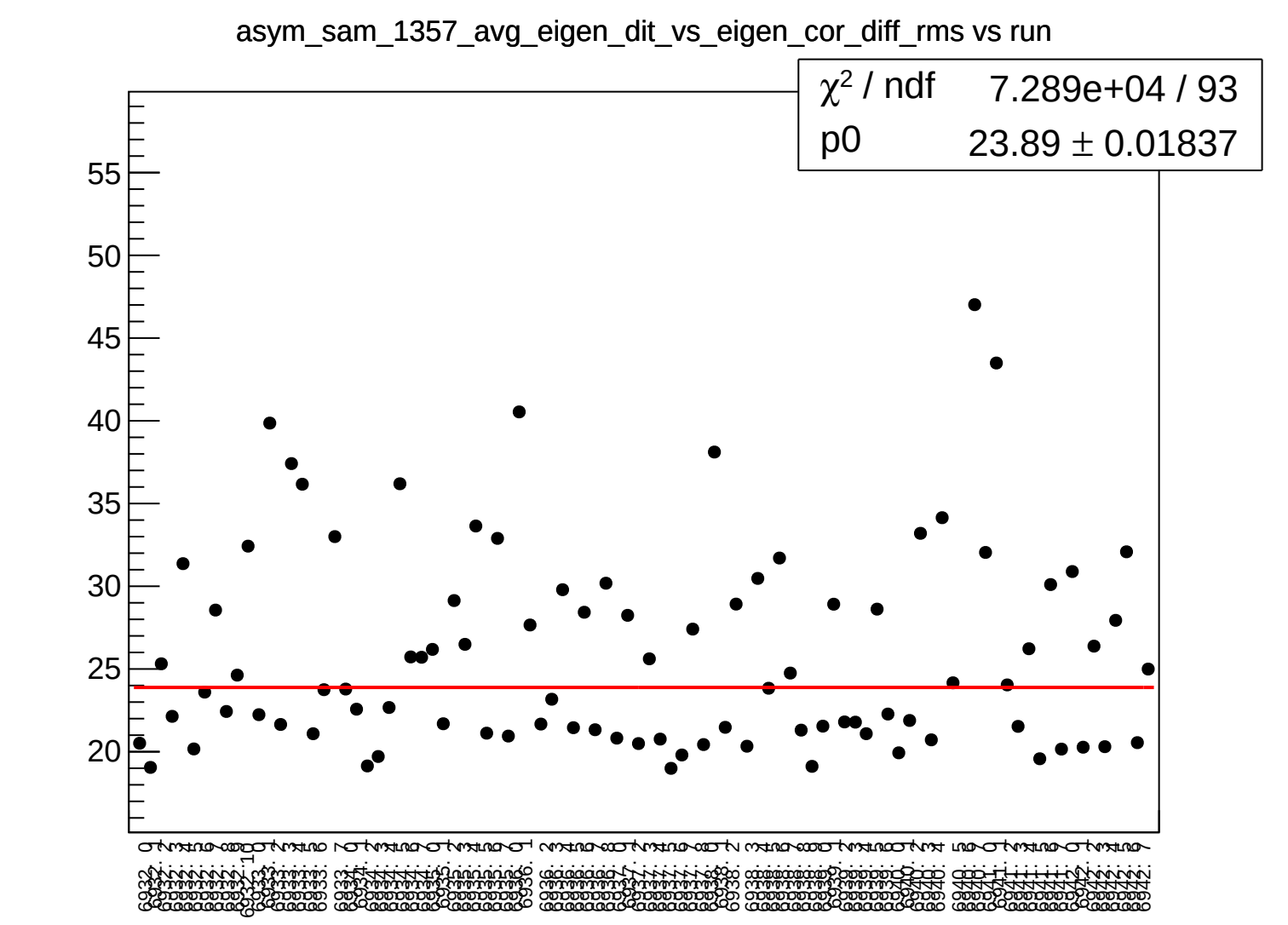

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.06 / 93
p0 0.01007 ± 0.02598
pull
Entries 94
Mean 2549
Std Dev 0

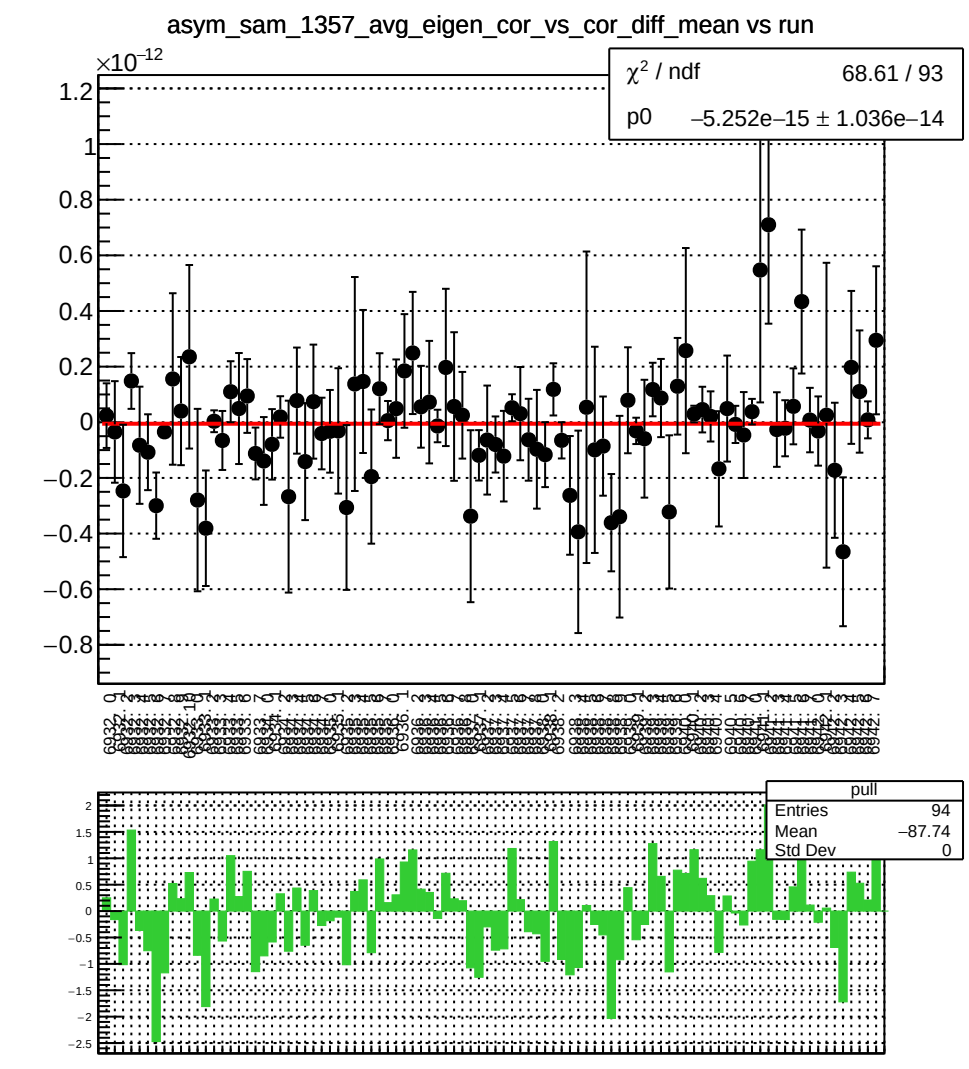

pull1D
Entries 94
Mean 0.0007417
Std Dev 0.9456

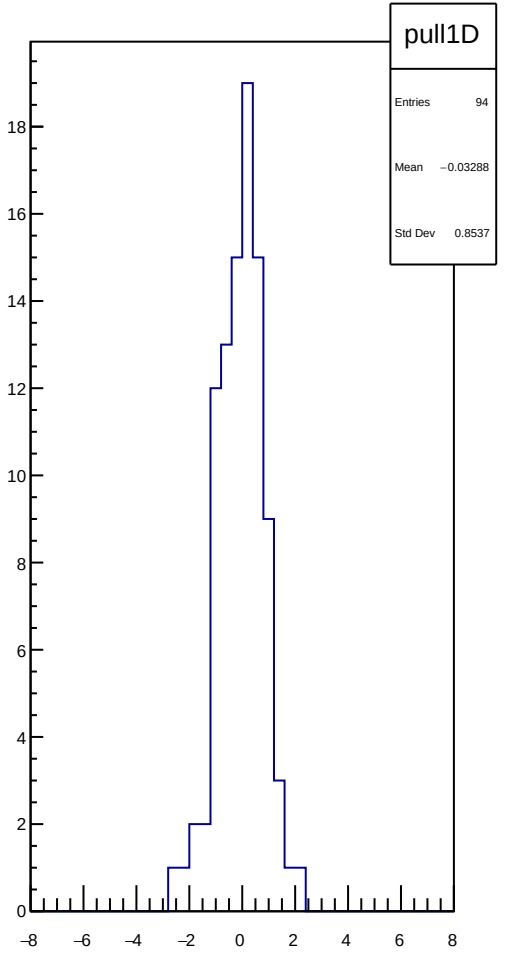

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.289e+04 / 93
p0 23.89 ± 0.01837
55
50
45
40
35
30
25
20

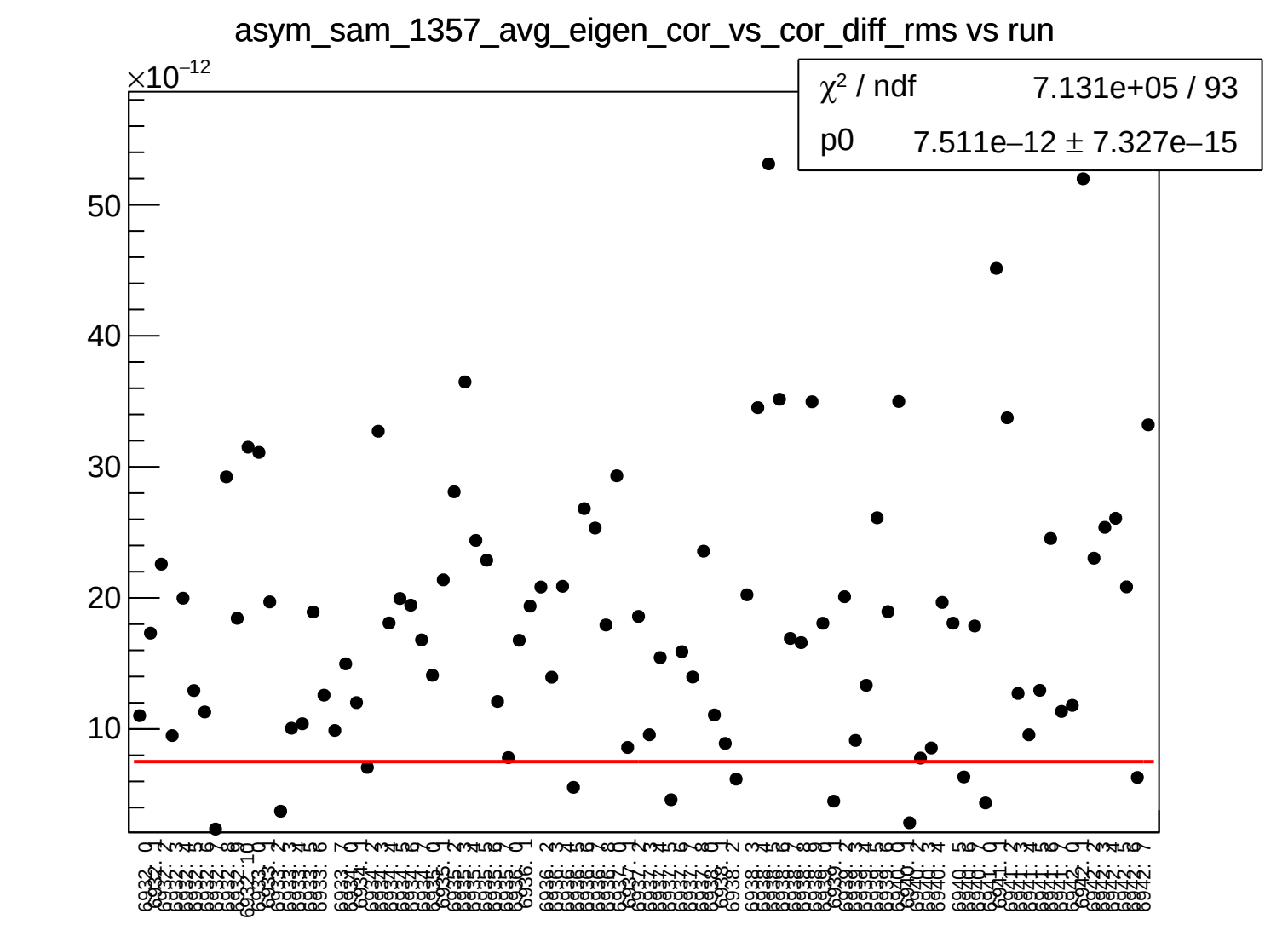

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.06 / 93
p0 0.01007 ± 0.02598
pull
Entries 94
Mean 2549
Std Dev 0

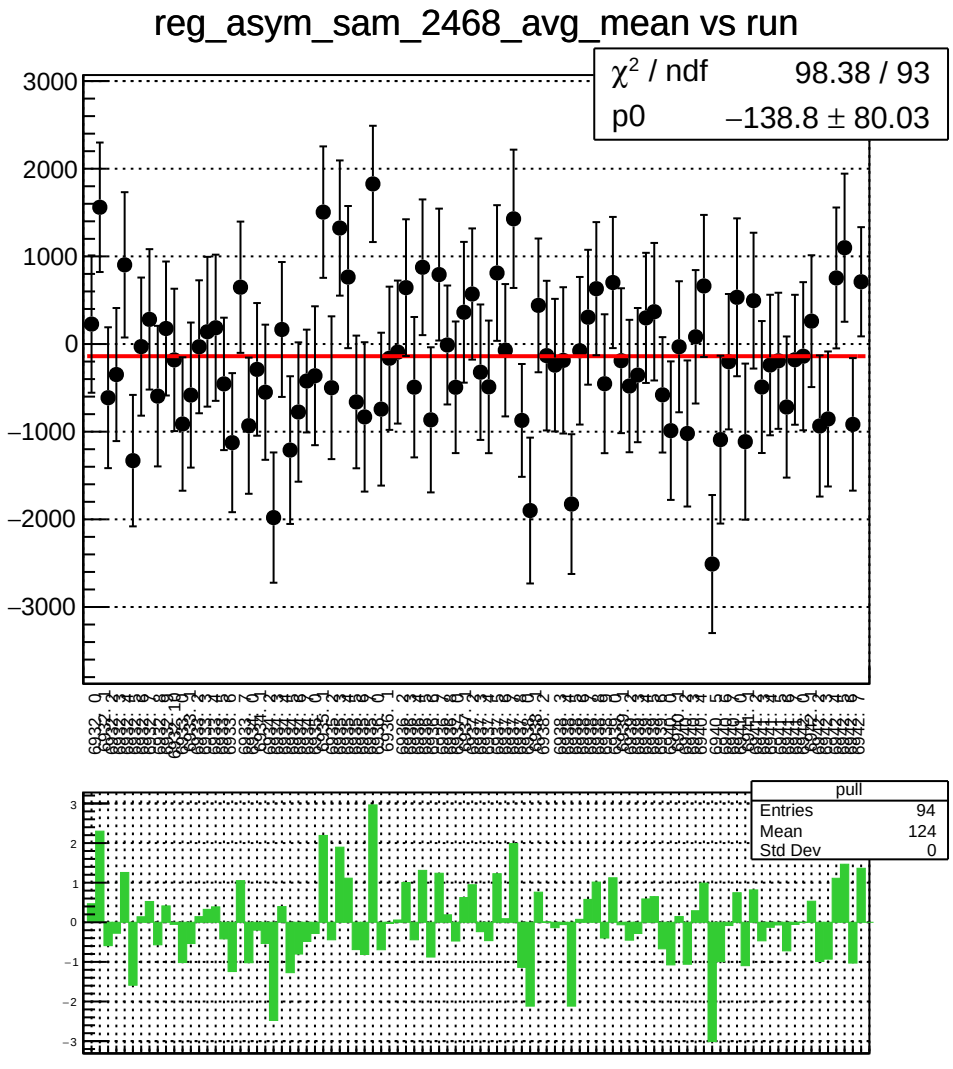

pull1D
Entries 94
Mean 0.0007417
Std Dev 0.9456

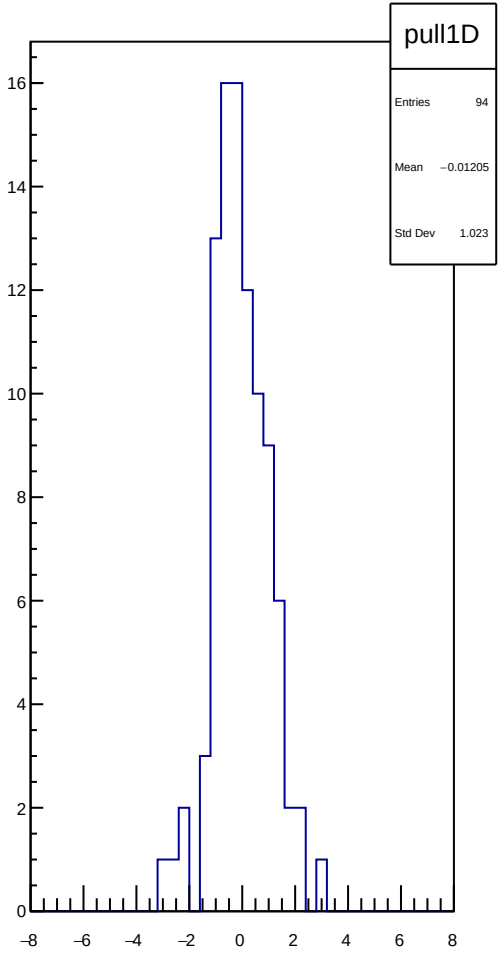

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.289e+04 / 93
p0 23.89 ± 0.01837
55
50
45
40
35
30
25
20

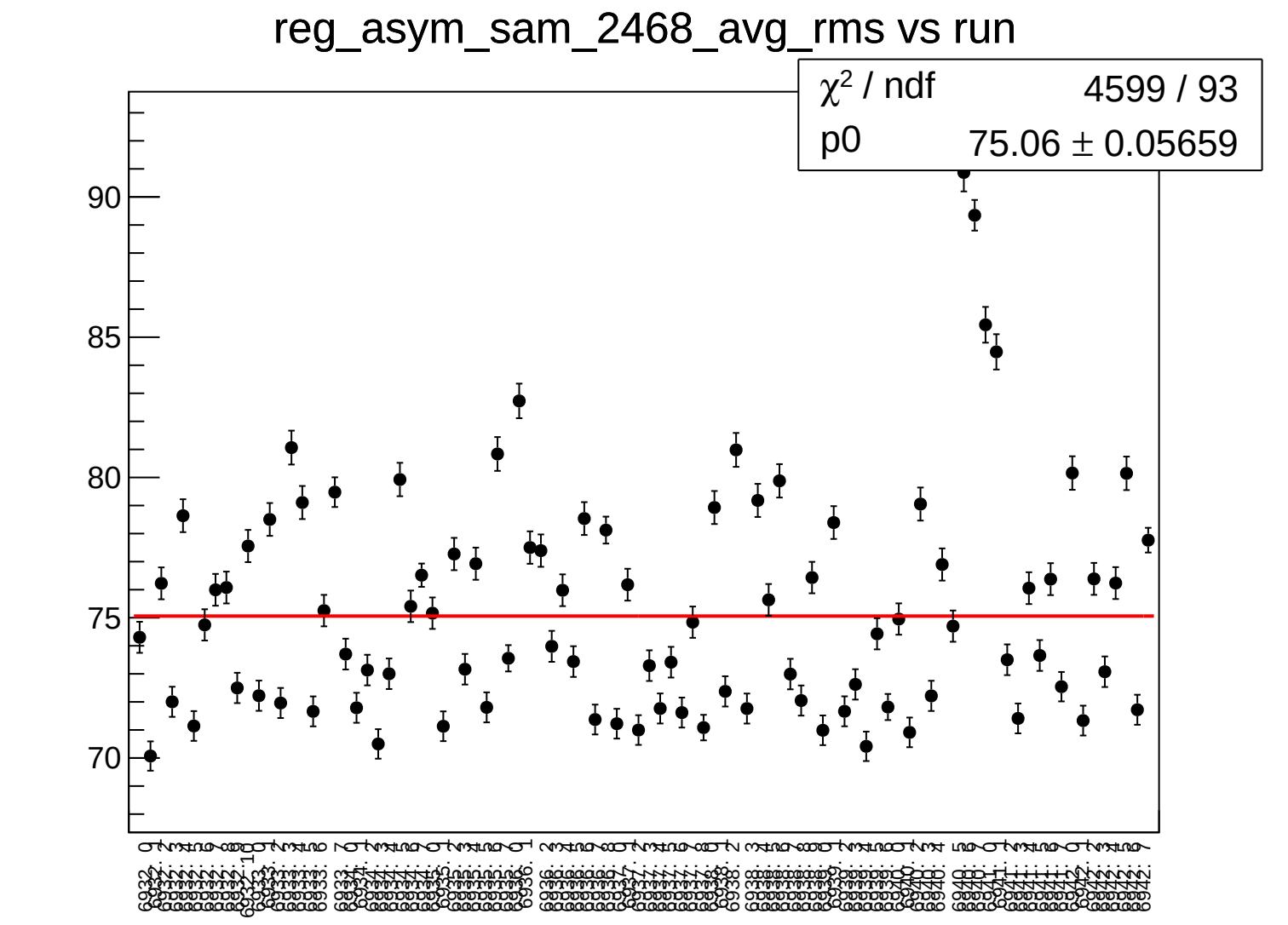

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 68.61 / 93
p0 −5.252e−15 ± 1.036e−14
pull
Entries 94
Mean −87.74
Std Dev 0

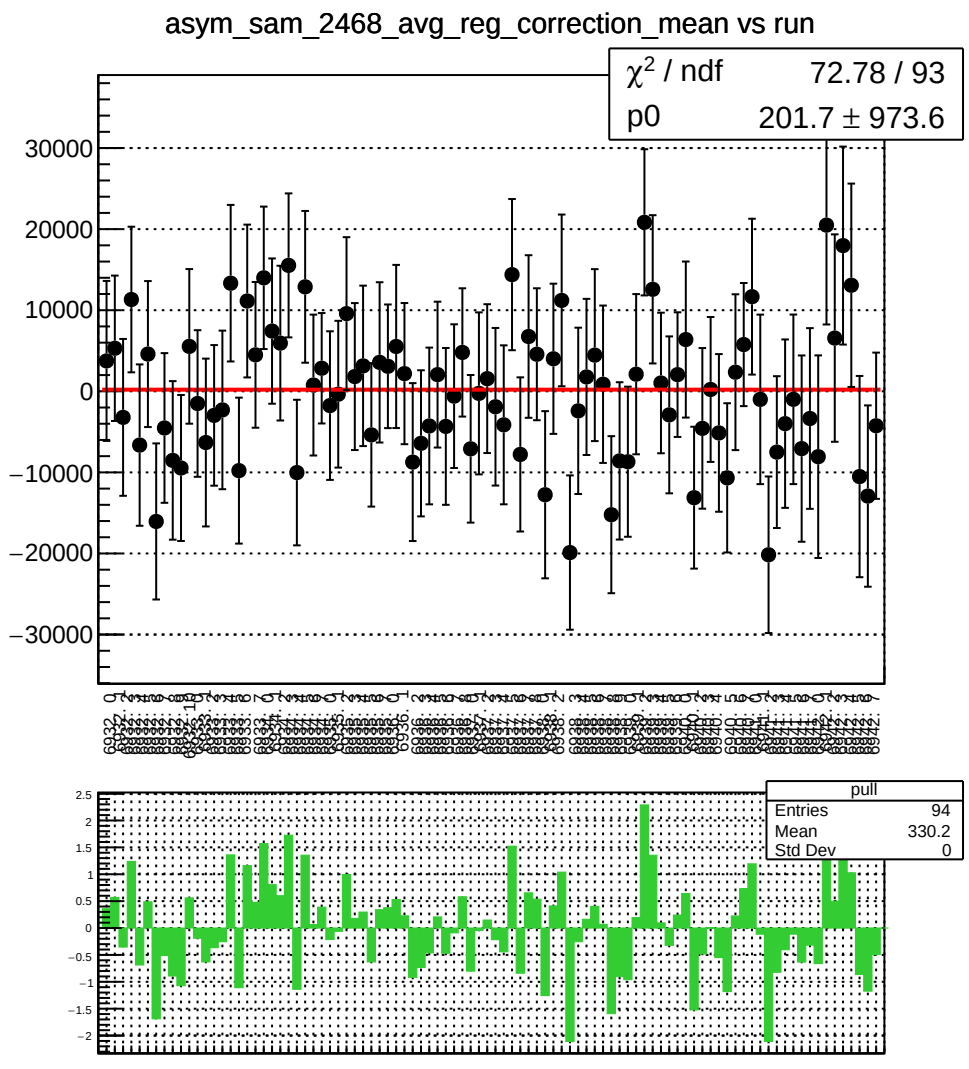

pull1D
Entries 94
Mean −0.03288
Std Dev 0.8537

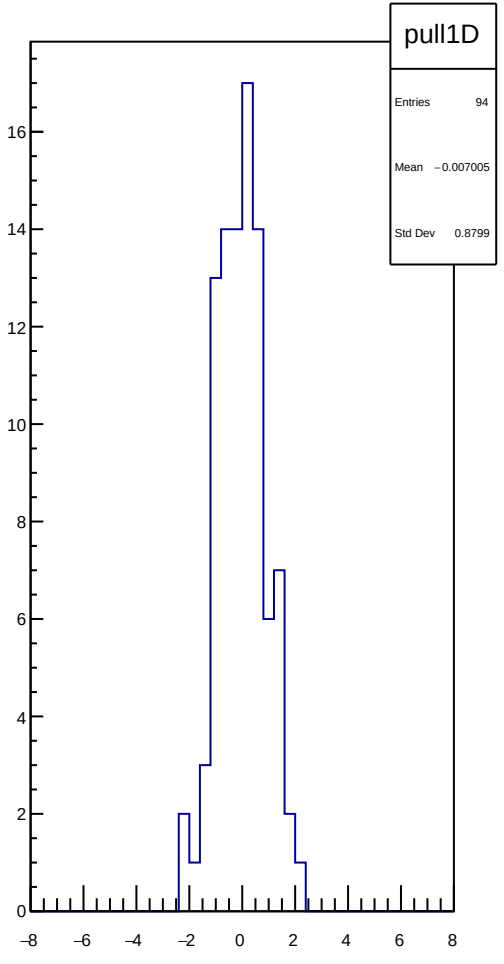

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.131e+05 / 93
p0 7.511e−12 ± 7.327e−15
50
40
30
20
10

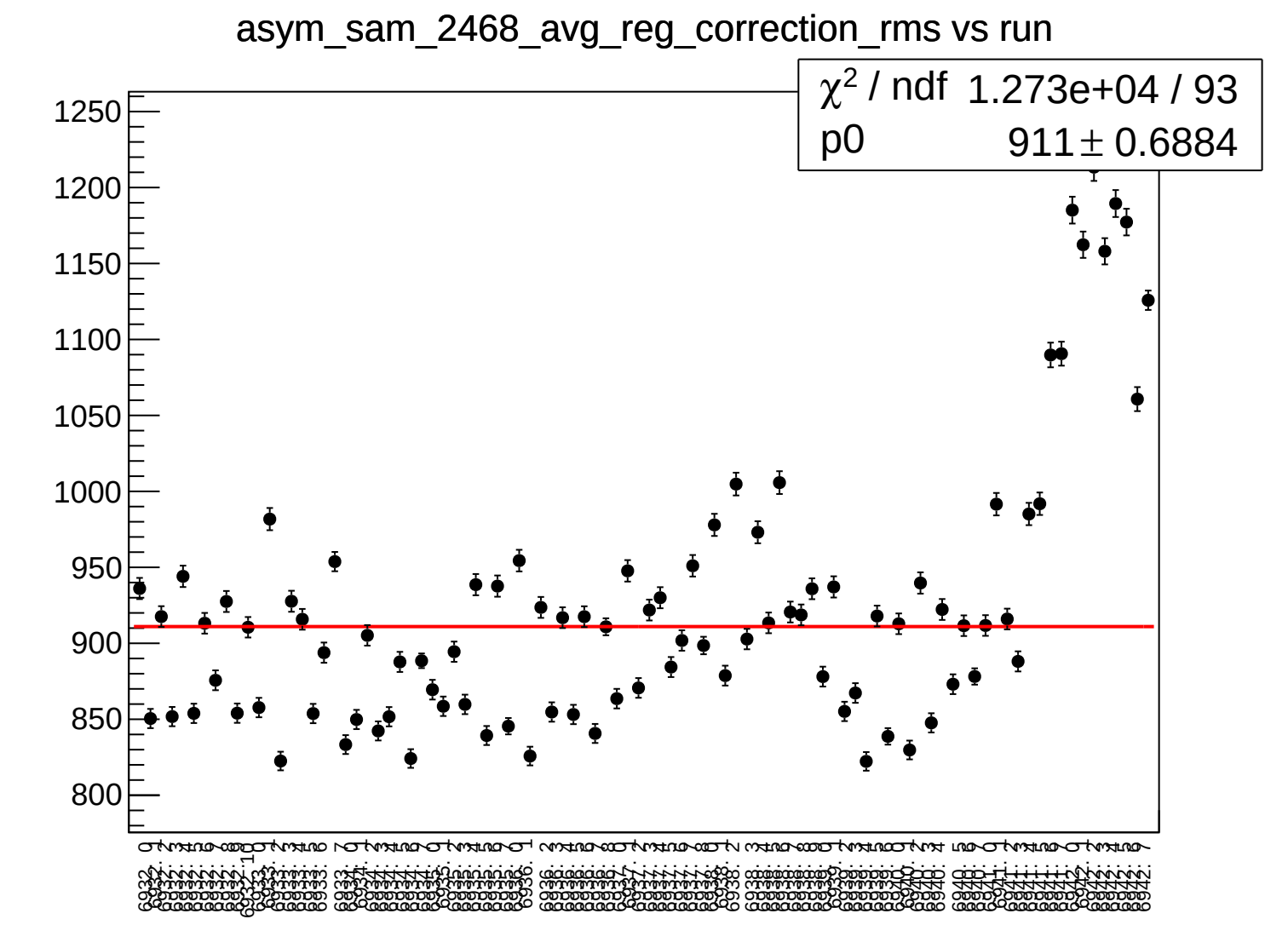

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 98.38 / 93
p0 −138.8 ± 80.03
pull
Entries 94
Mean 124
Std Dev 0

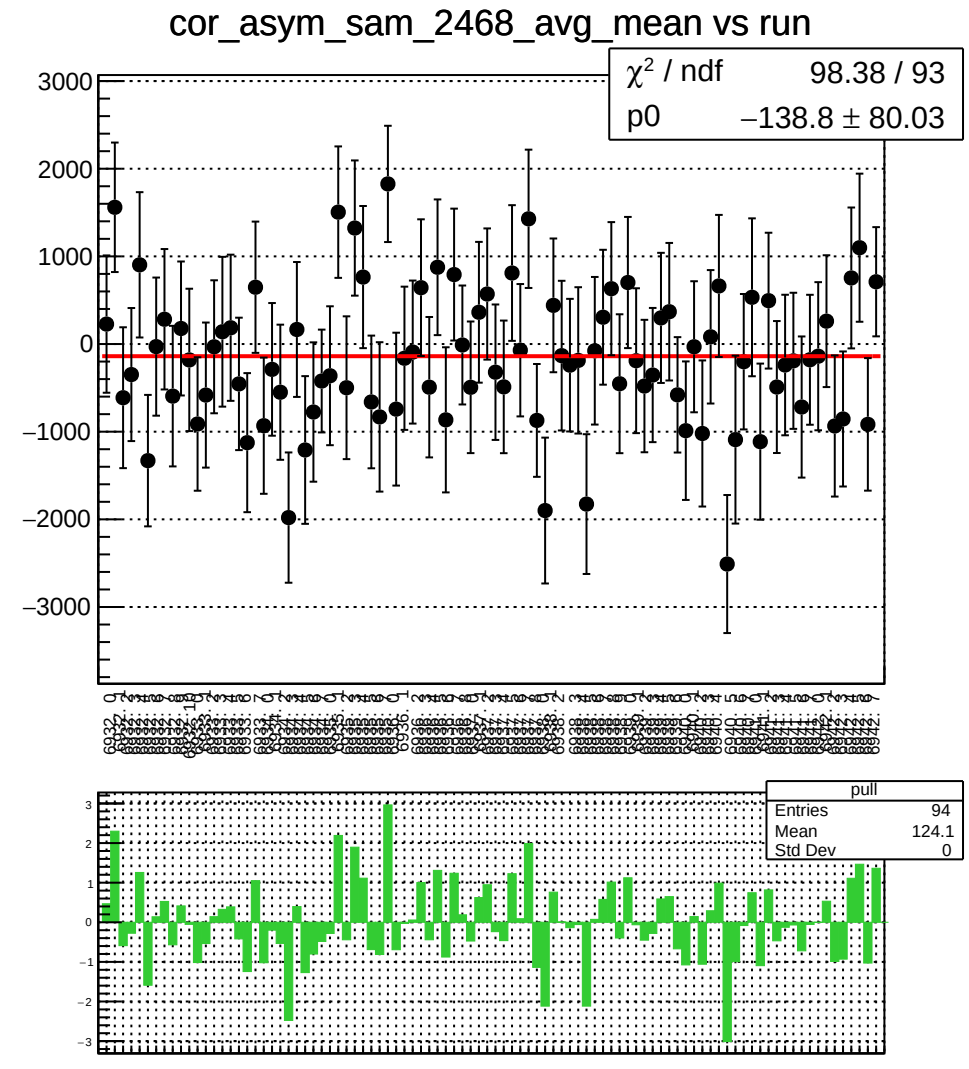

pull1D
Entries 94
Mean −0.01205
Std Dev 1.023

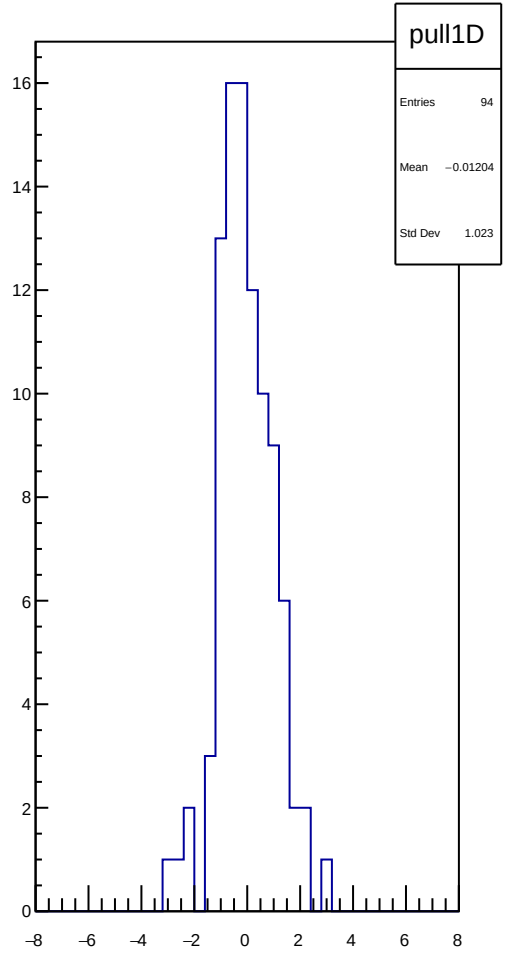

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4599 / 93
p0 75.06 ± 0.05659
90
85
80
75
70

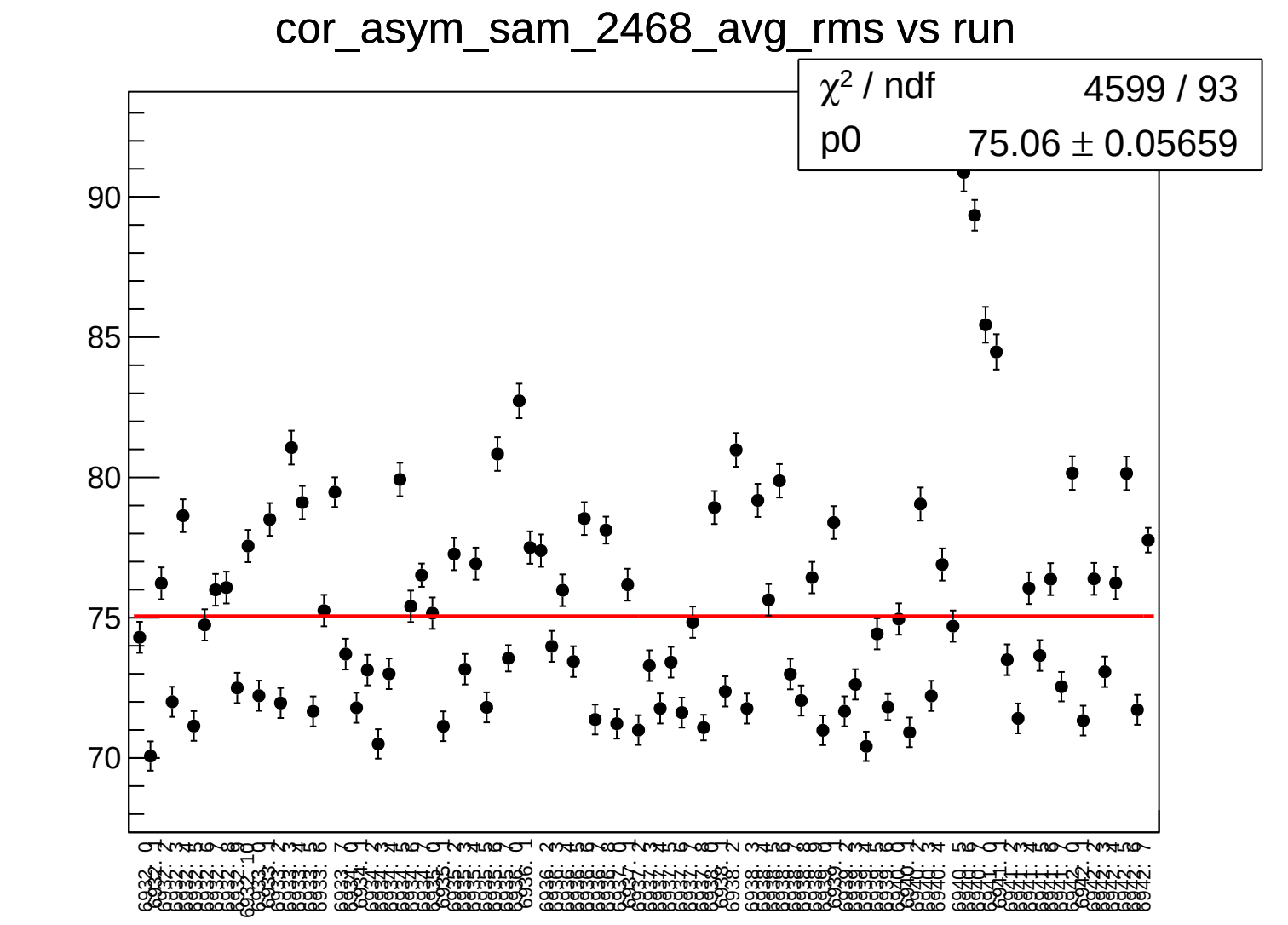

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 72.78 / 93
p0 201.7 ± 973.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 330.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

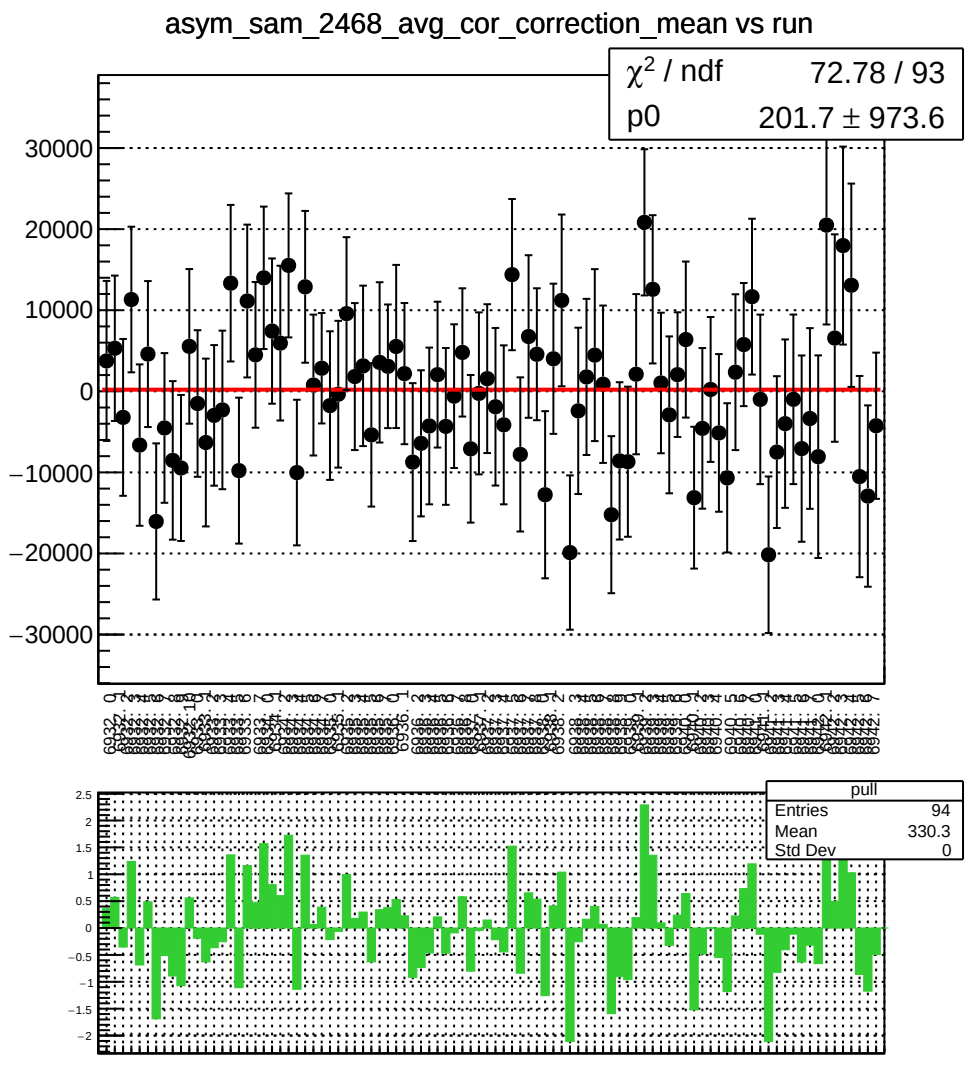

pull1D
Entries 94
Mean −0.007005
Std Dev 0.8799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

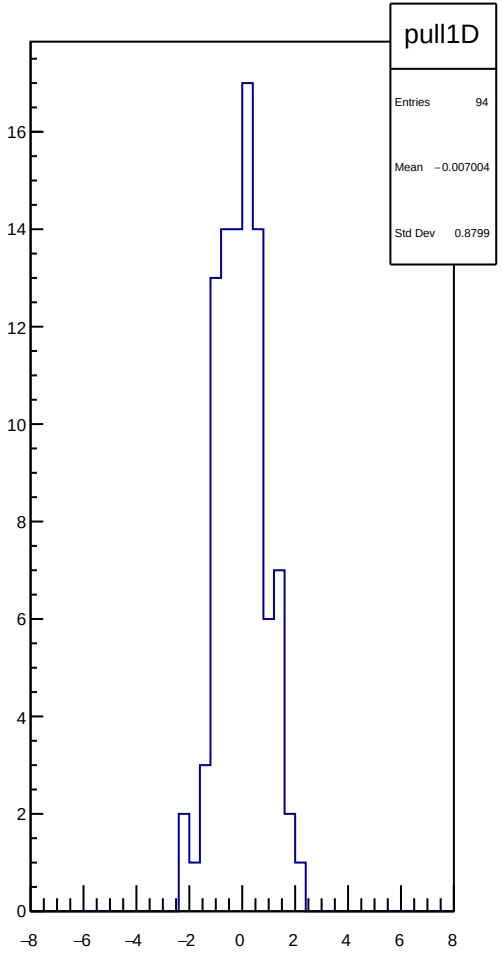

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.273e+04 / 93
p0 911 ± 0.6884
1250
1200
1150
1100
1050
1000
950
900
850
800

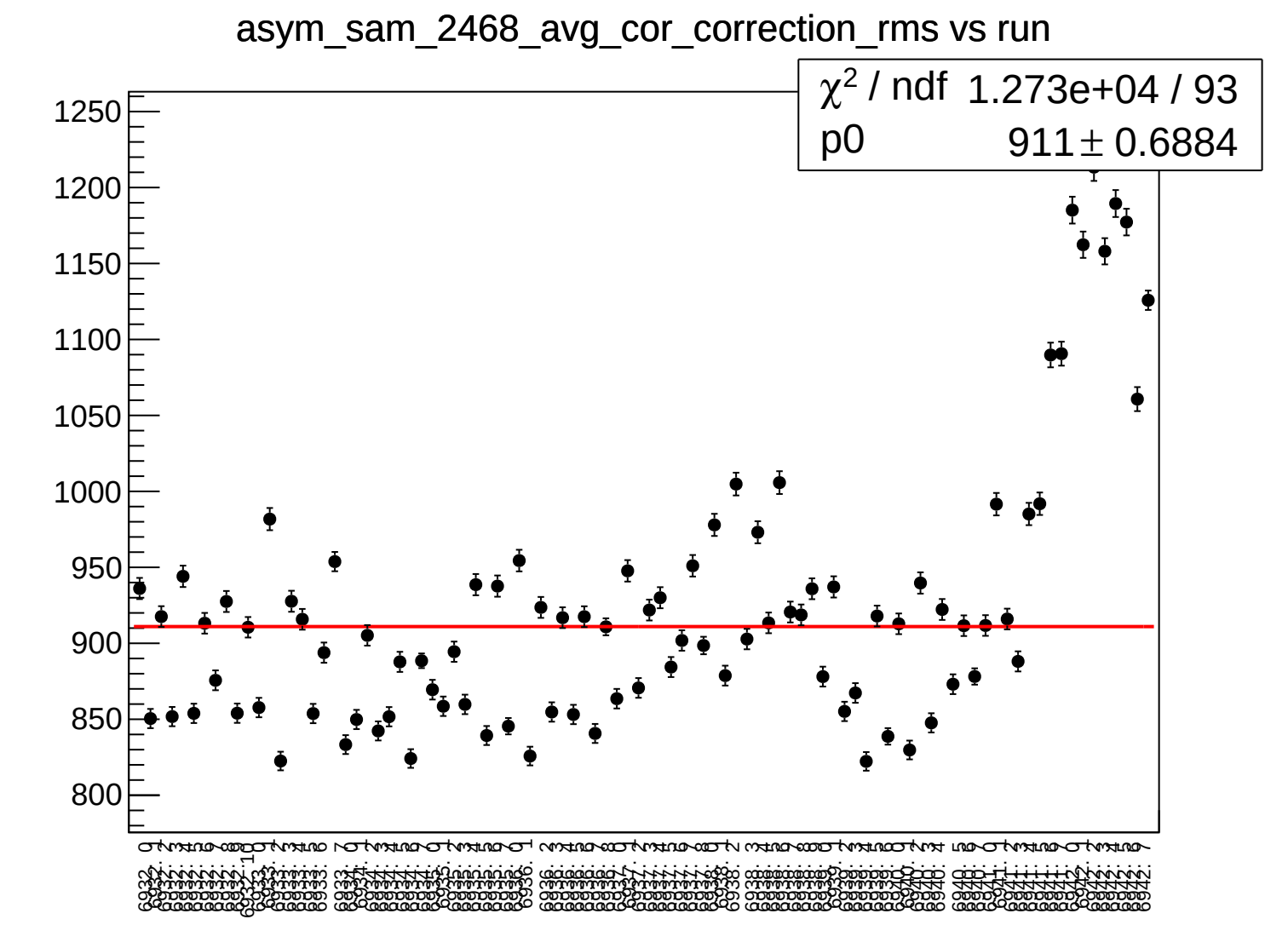

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 98.38 / 93
p0 −138.8 ± 80.03
pull
Entries 94
Mean 124.1
Std Dev 0

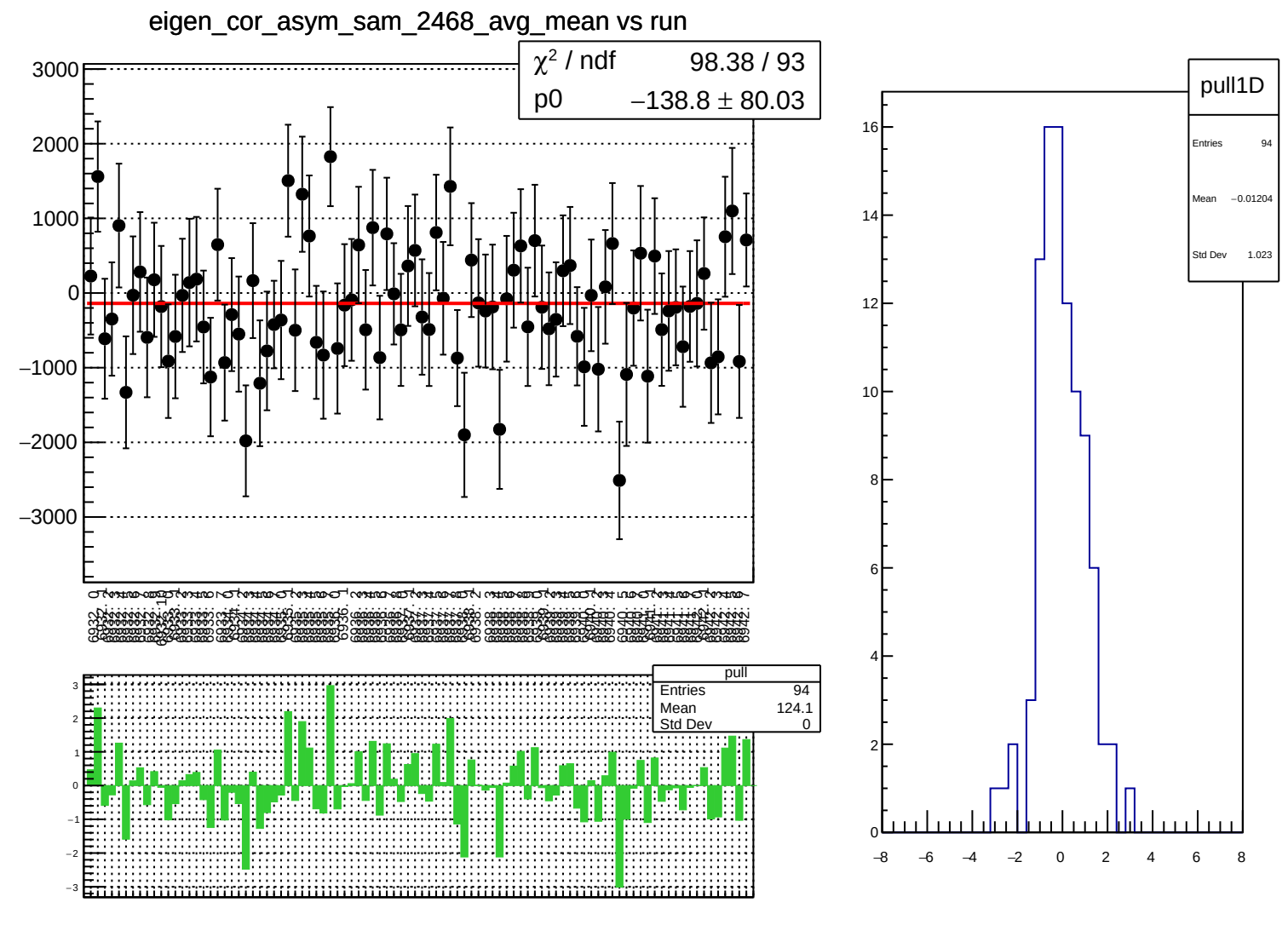

pull1D
Entries 94
Mean −0.01204
Std Dev 1.023

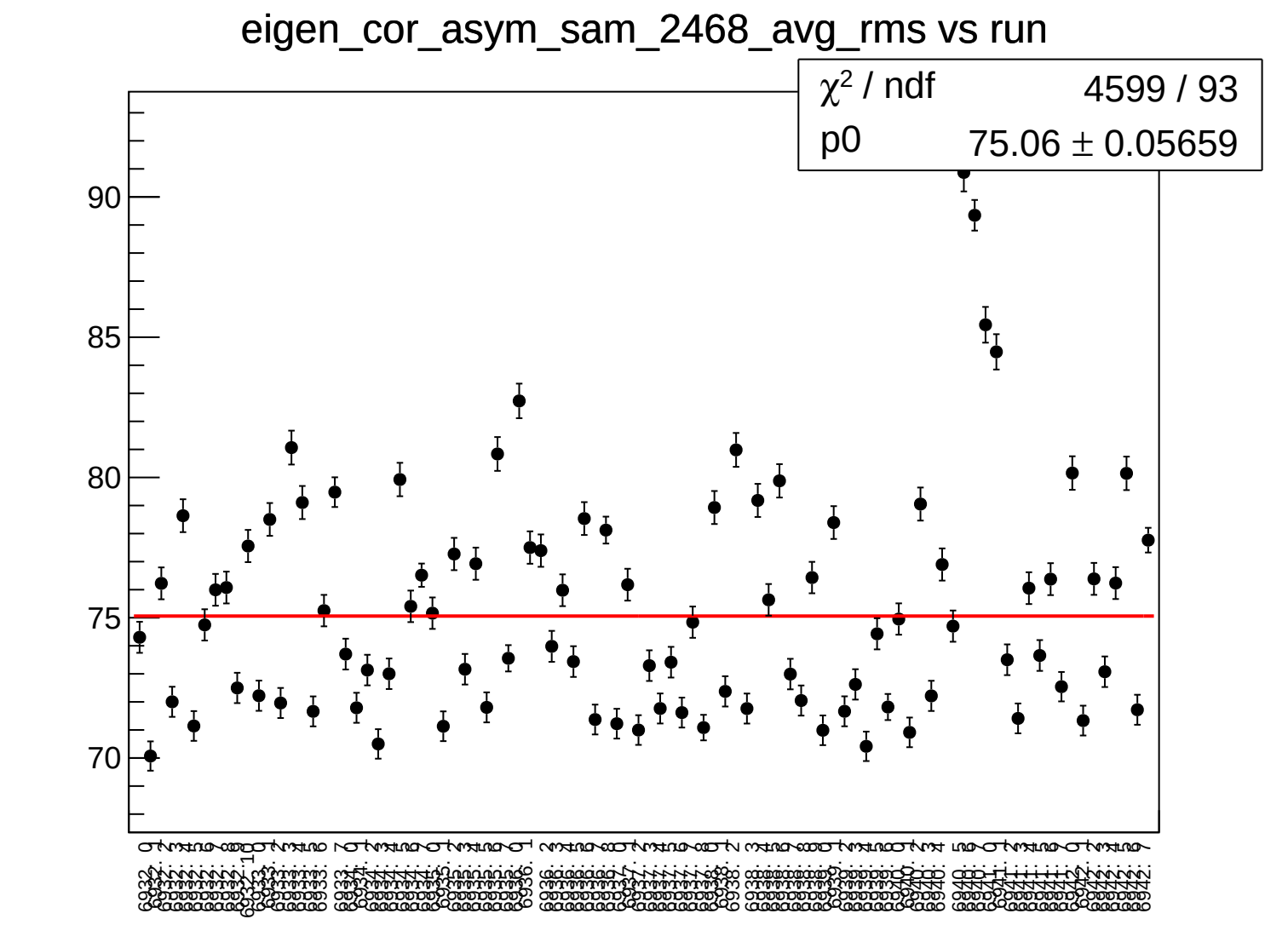

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4599 / 93
p0 75.06 ± 0.05659
90
85
80
75
70

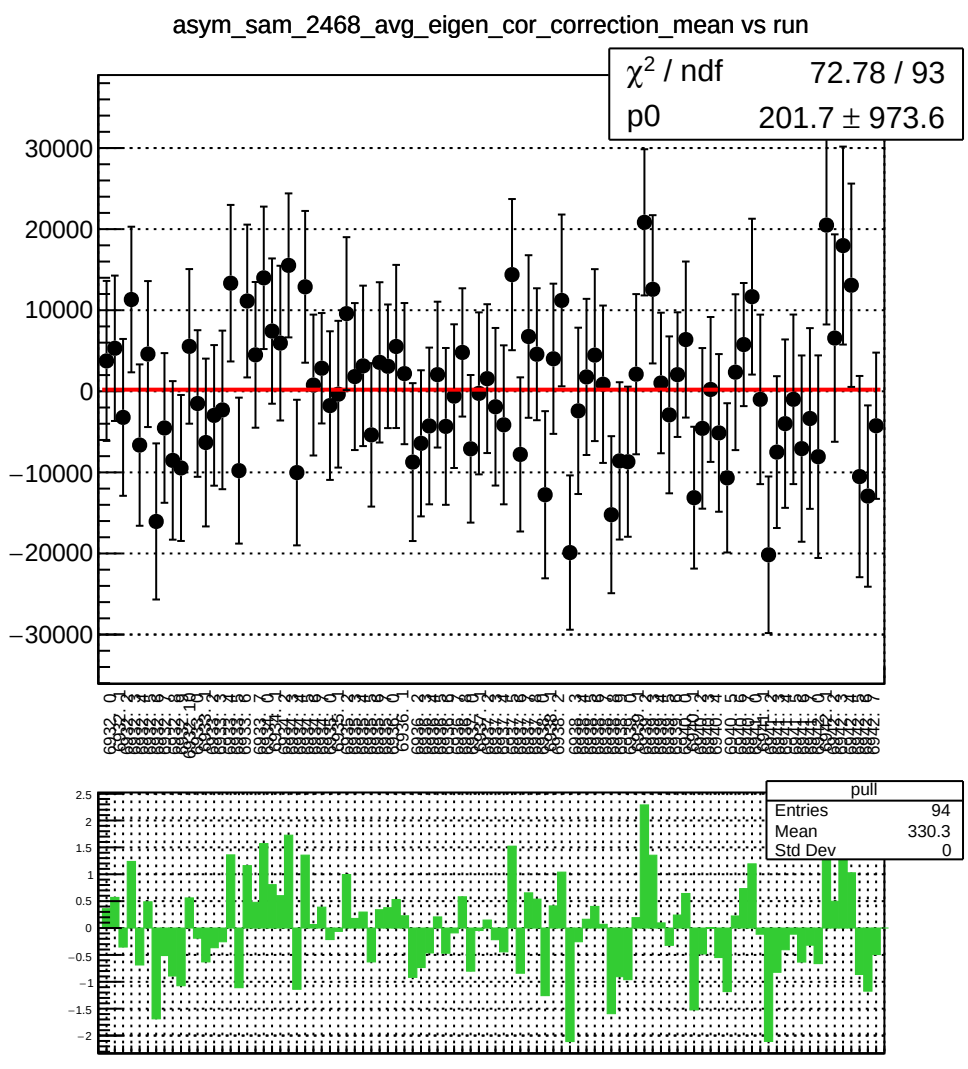

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 72.78 / 93
p0 201.7 ± 973.6
pull
Entries 94
Mean 330.3
Std Dev 0

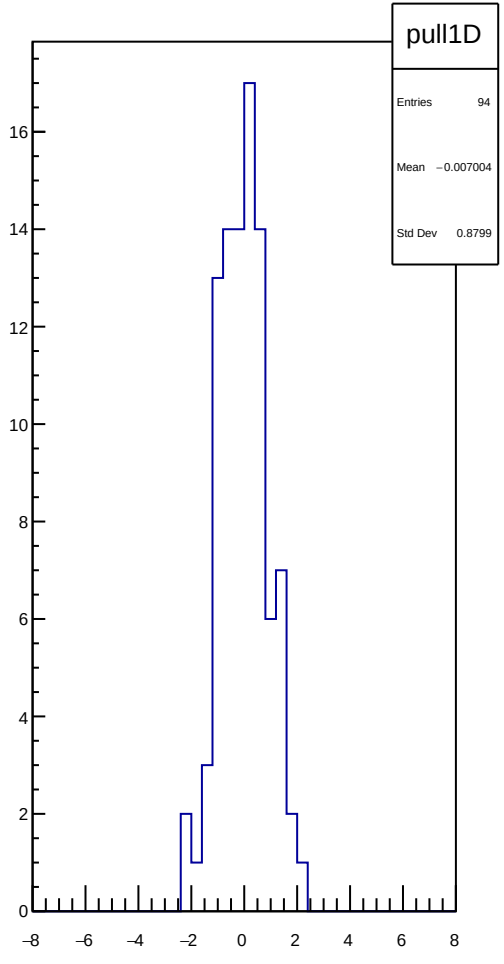

pull1D
Entries 94
Mean −0.007004
Std Dev 0.8799

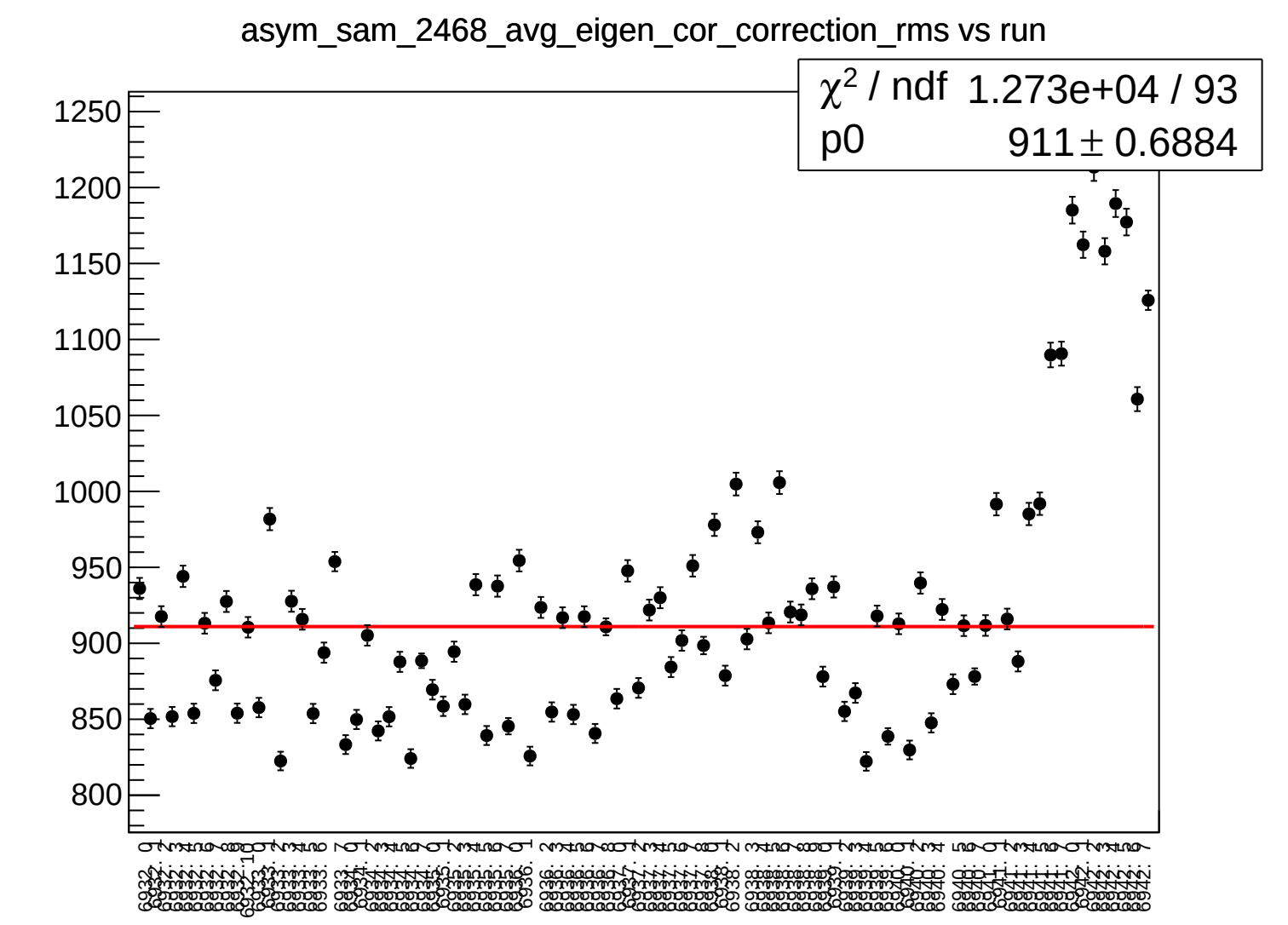

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.273e+04 / 93
p0 911 ± 0.6884
1250
1200
1150
1100
1050
1000
950
900
850
800

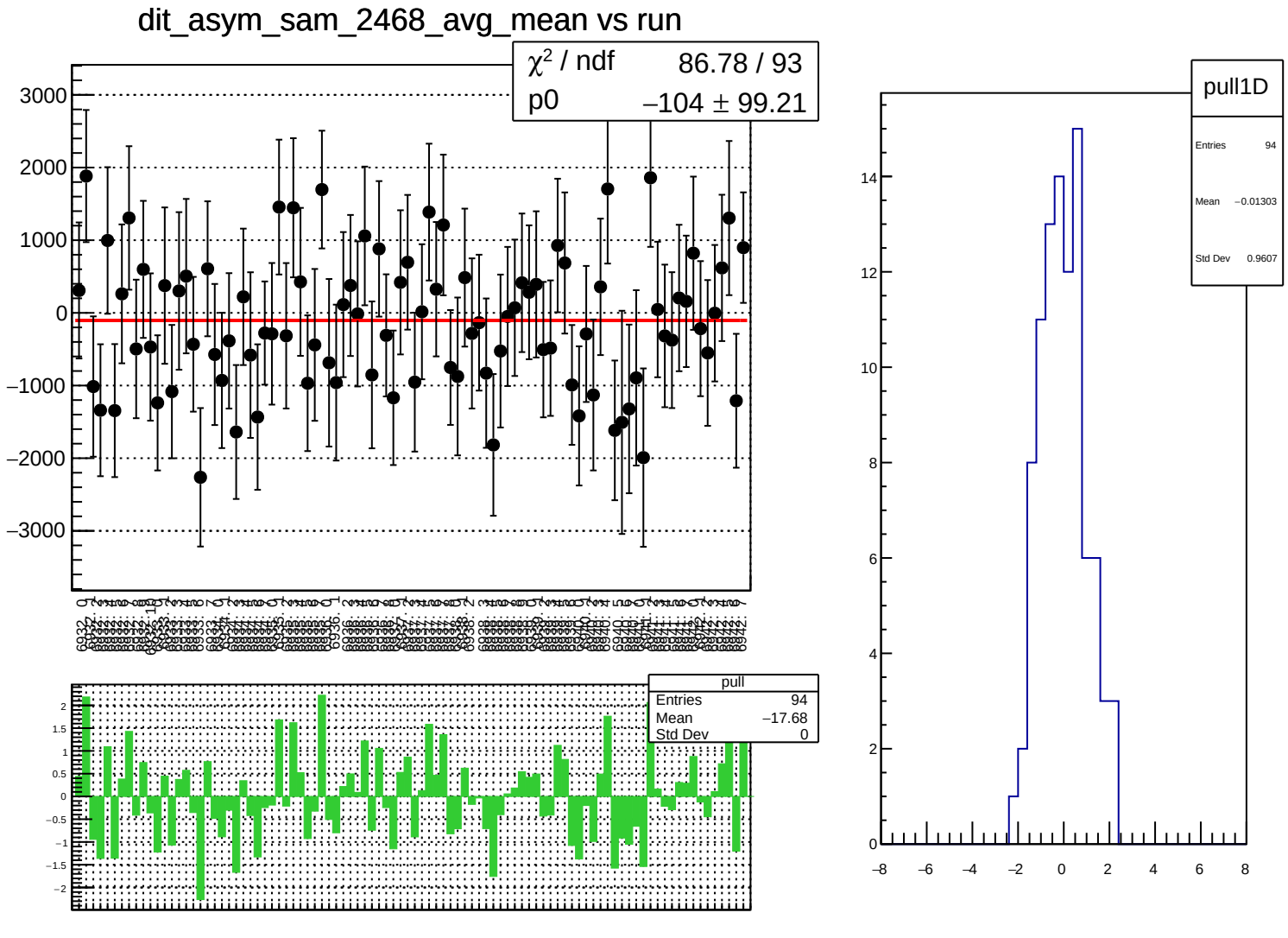

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 98.38 / 93
p0 −138.8 ± 80.03
pull
Entries 94
Mean 124.1
Std Dev 0
pull1D
Entries 94
Mean −0.01204
Std Dev 1.023

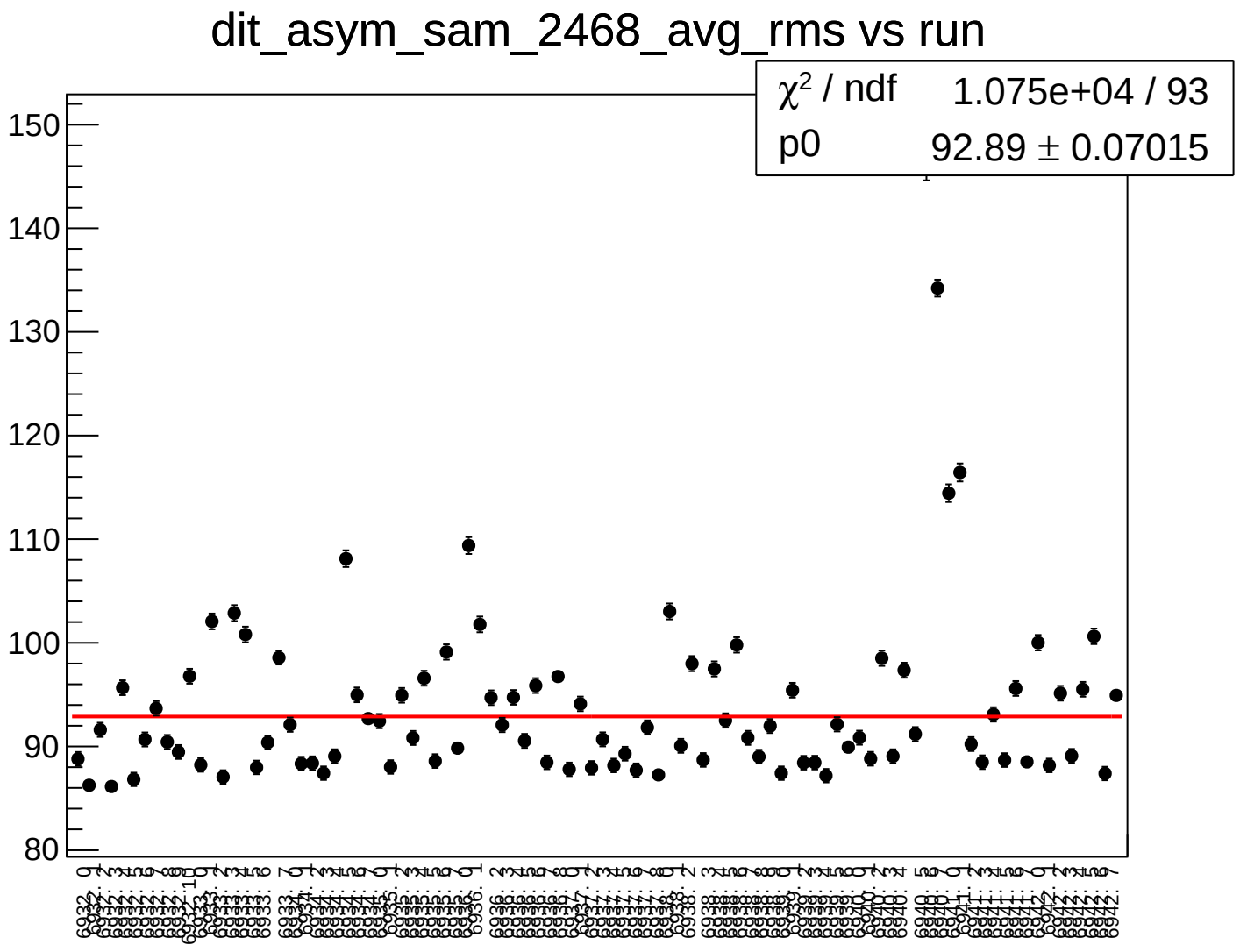

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4599 / 93
p0 75.06 ± 0.05659
90
85
80
75
70

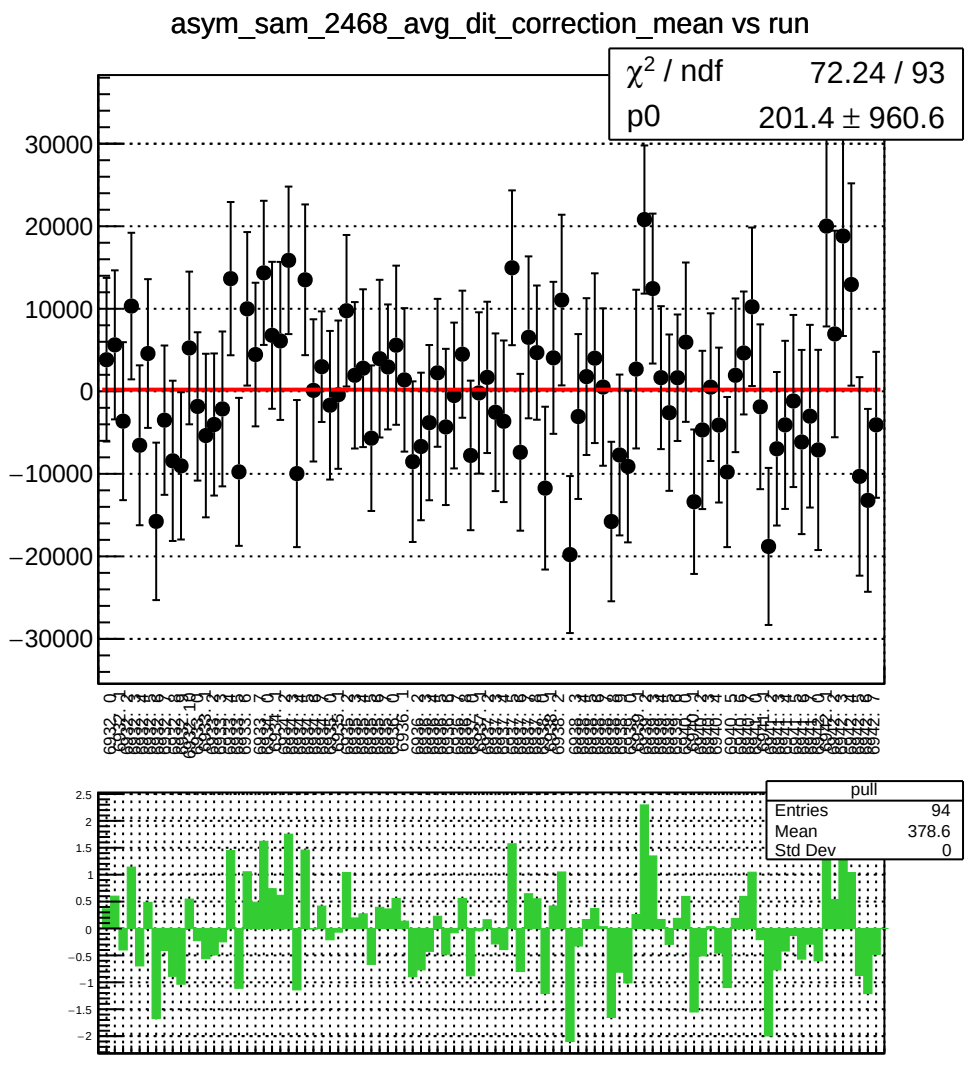

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.78 / 93
p0 201.7 ± 973.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 330.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

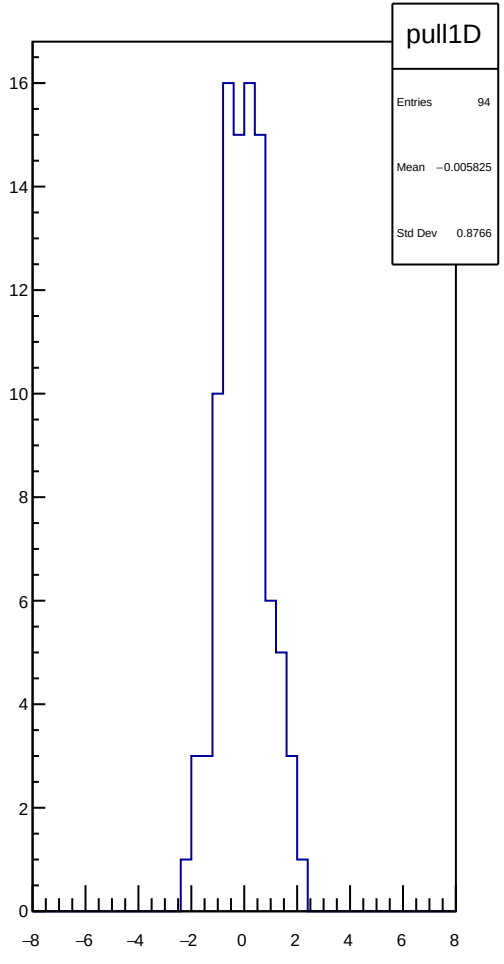

pull1D
Entries 94
Mean −0.007004
Std Dev 0.8799
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

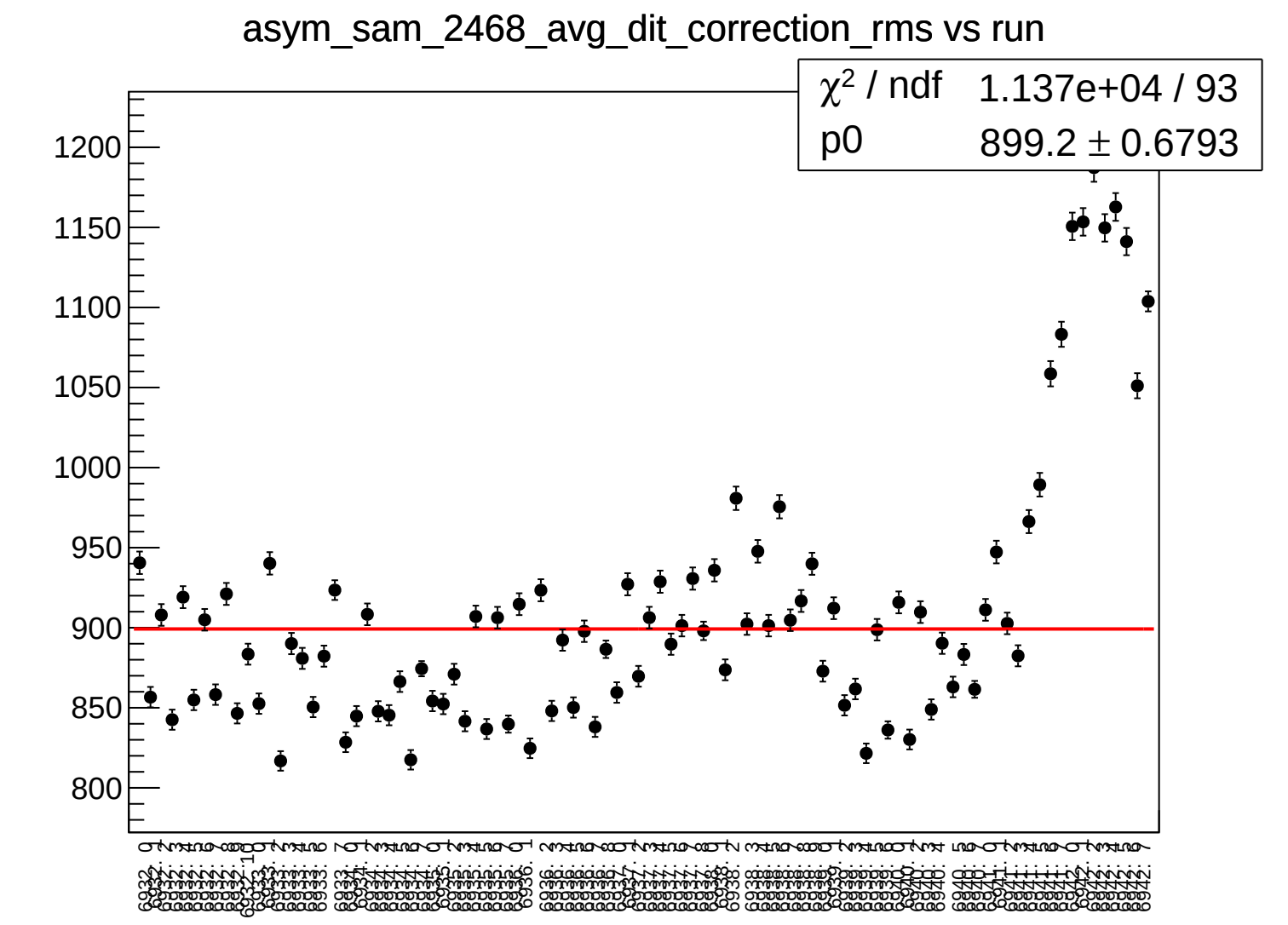

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.273e+04 / 93
p0 911 ± 0.6884
1250
1200
1150
1100
1050
1000
950
900
850
800

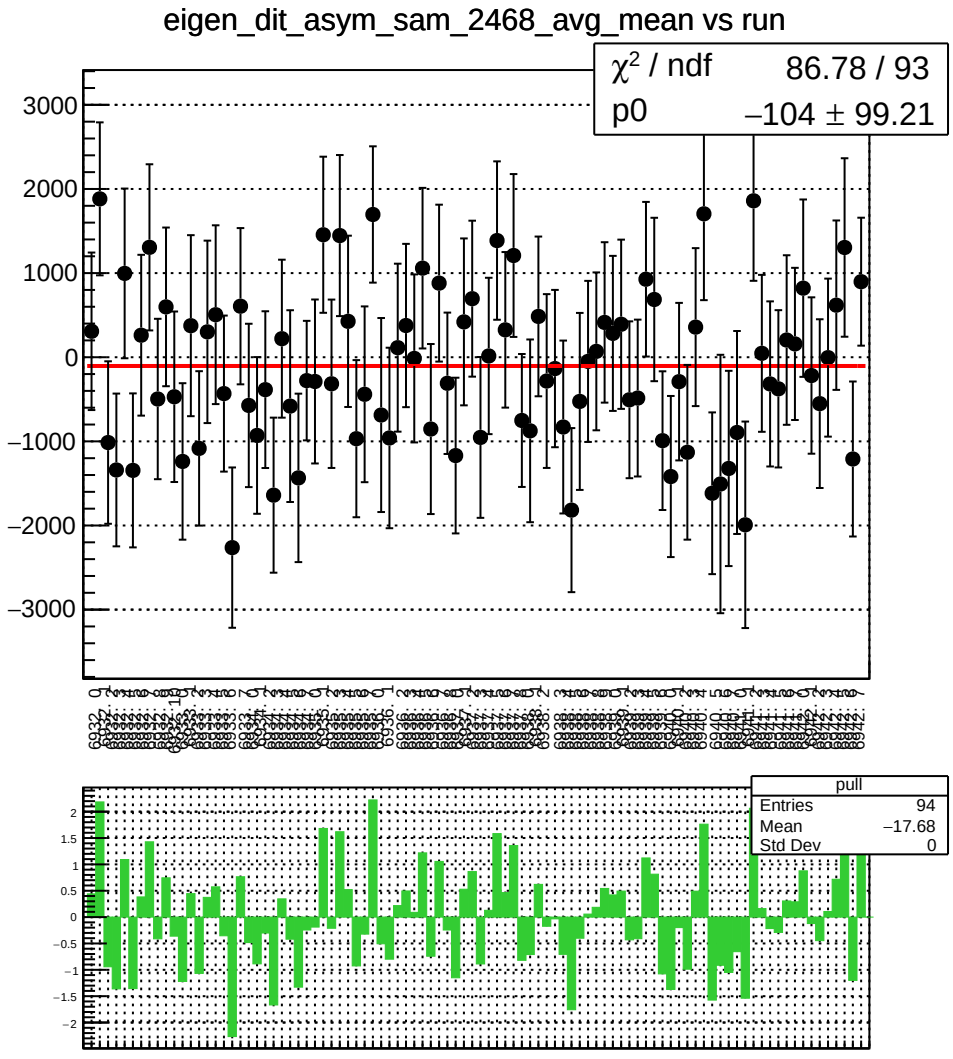

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 86.78 / 93
p0 −104 ± 99.21
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −17.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.01303
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

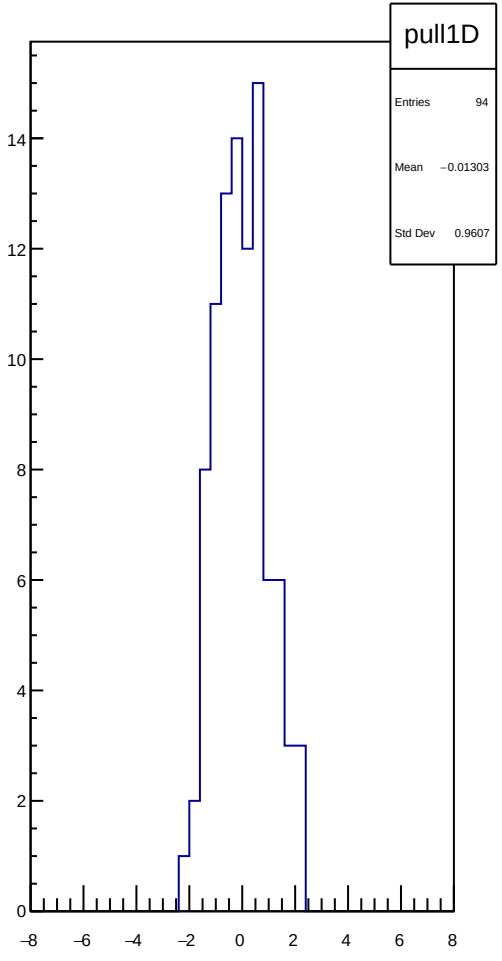

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.075e+04 / 93
p0 92.89 ± 0.07015
150
140
130
120
110
100
90
80

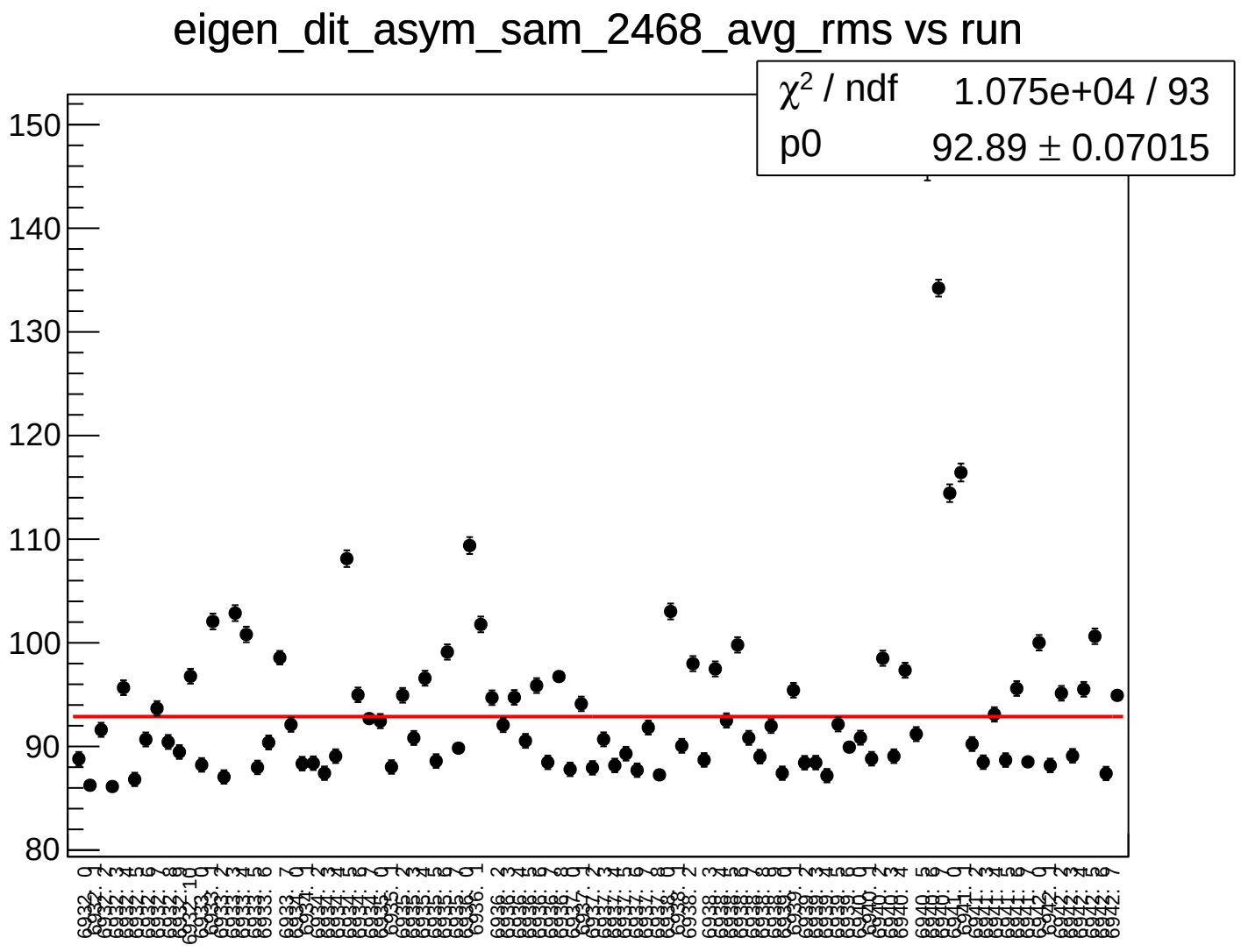

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 72.24 / 93
p0 201.4 ± 960.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 378.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

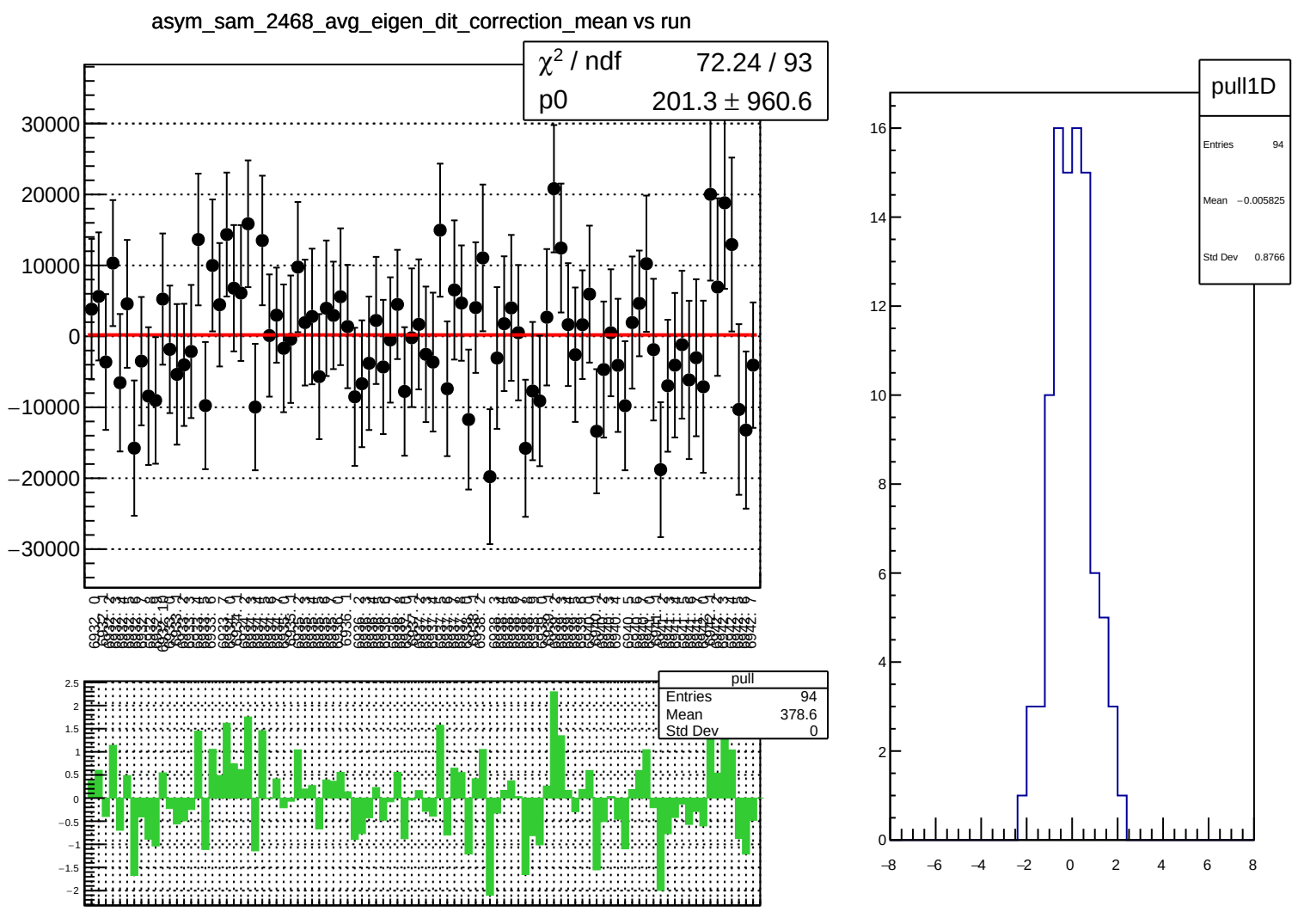

pull1D
Entries 94
Mean −0.005825
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

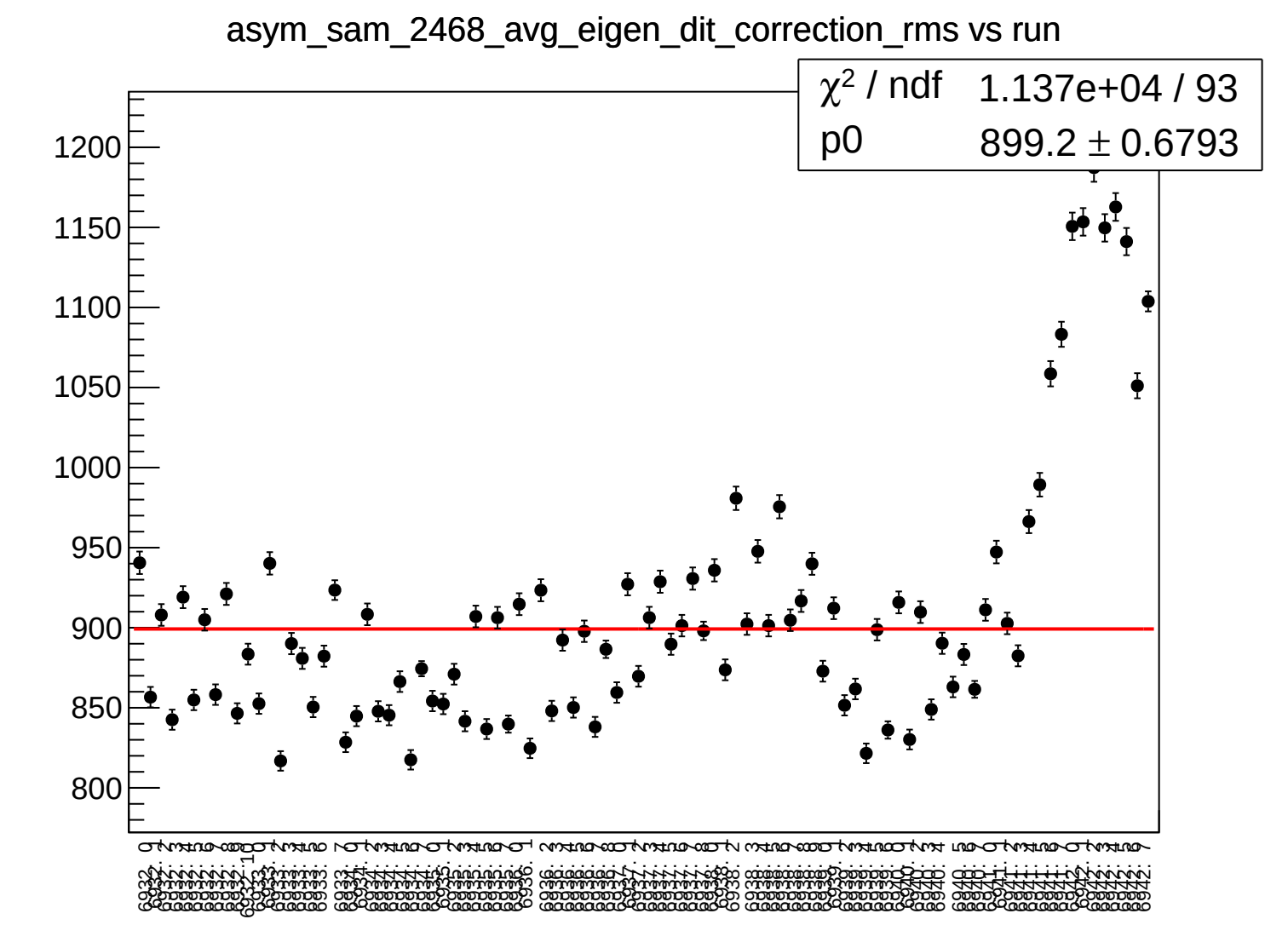

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.137e+04 / 93
p0 899.2 ± 0.6793
1200
1150
1100
1050
1000
950
900
850
800

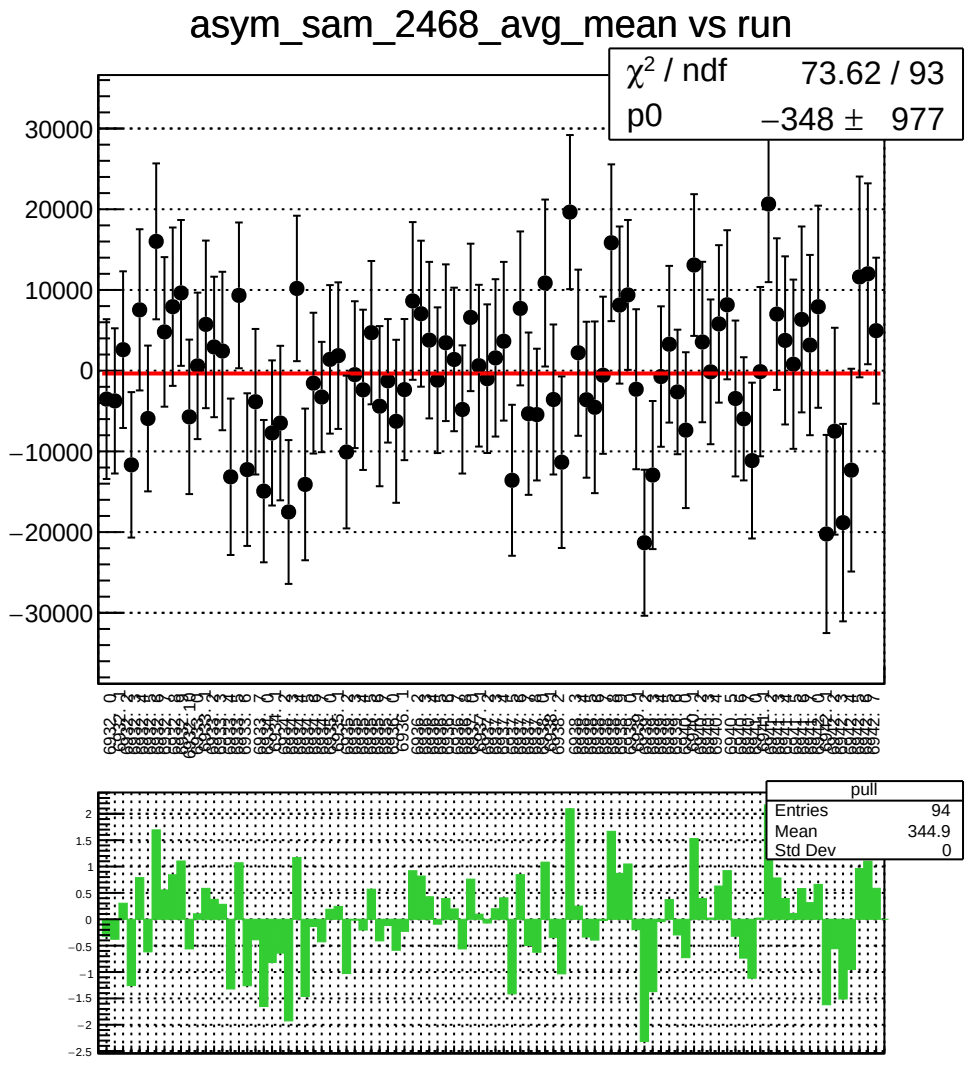

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 86.78 / 93
p0 −104 ± 99.21
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −17.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

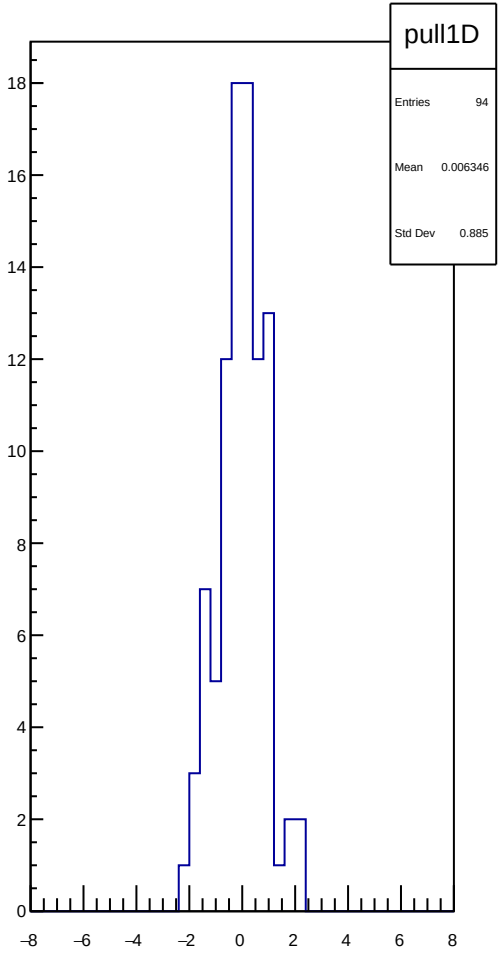

pull1D
Entries 94
Mean −0.01303
Std Dev 0.9607
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

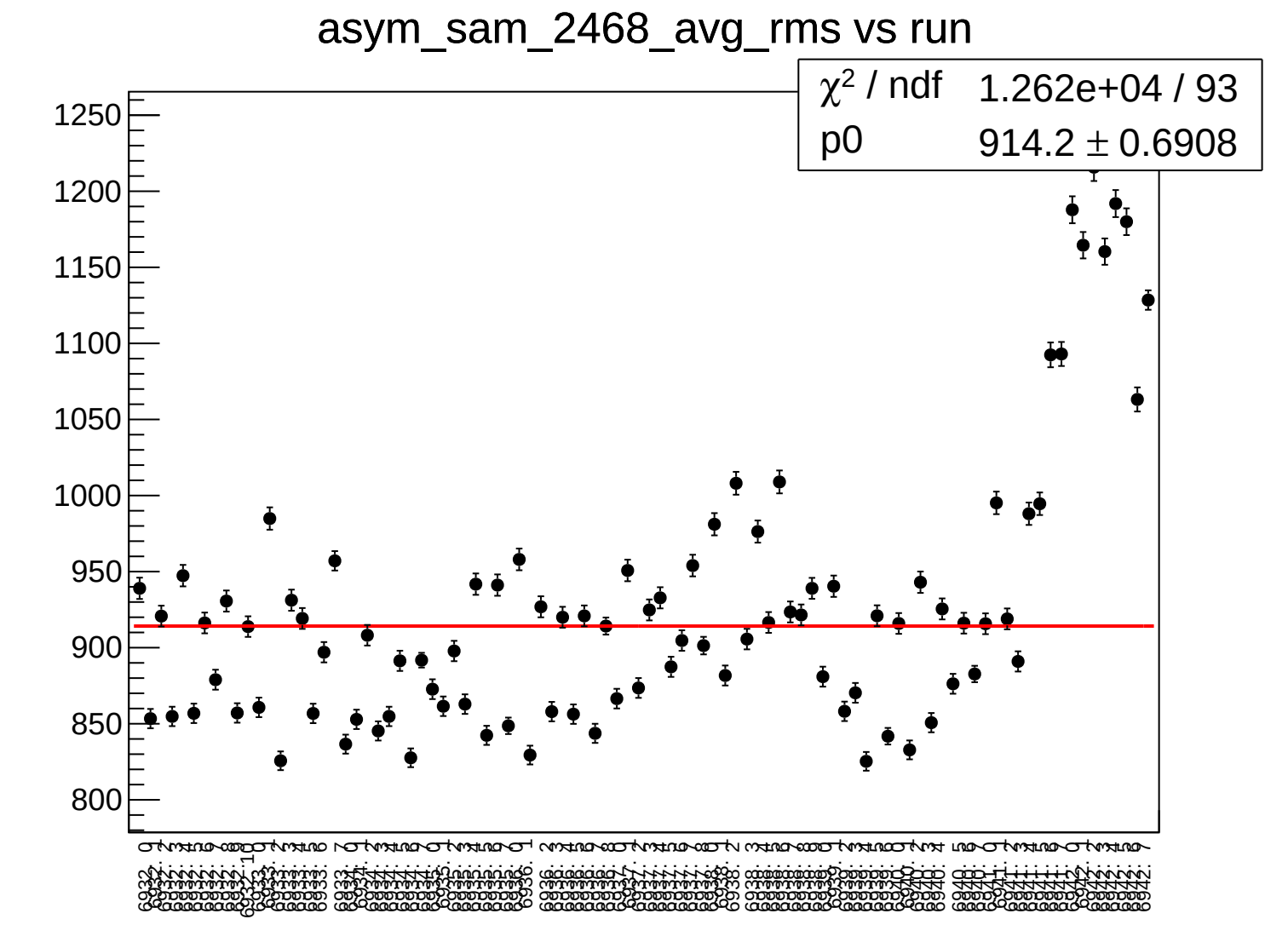

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.075e+04 / 93
p0 92.89 ± 0.07015
150
140
130
120
110
100
90
80

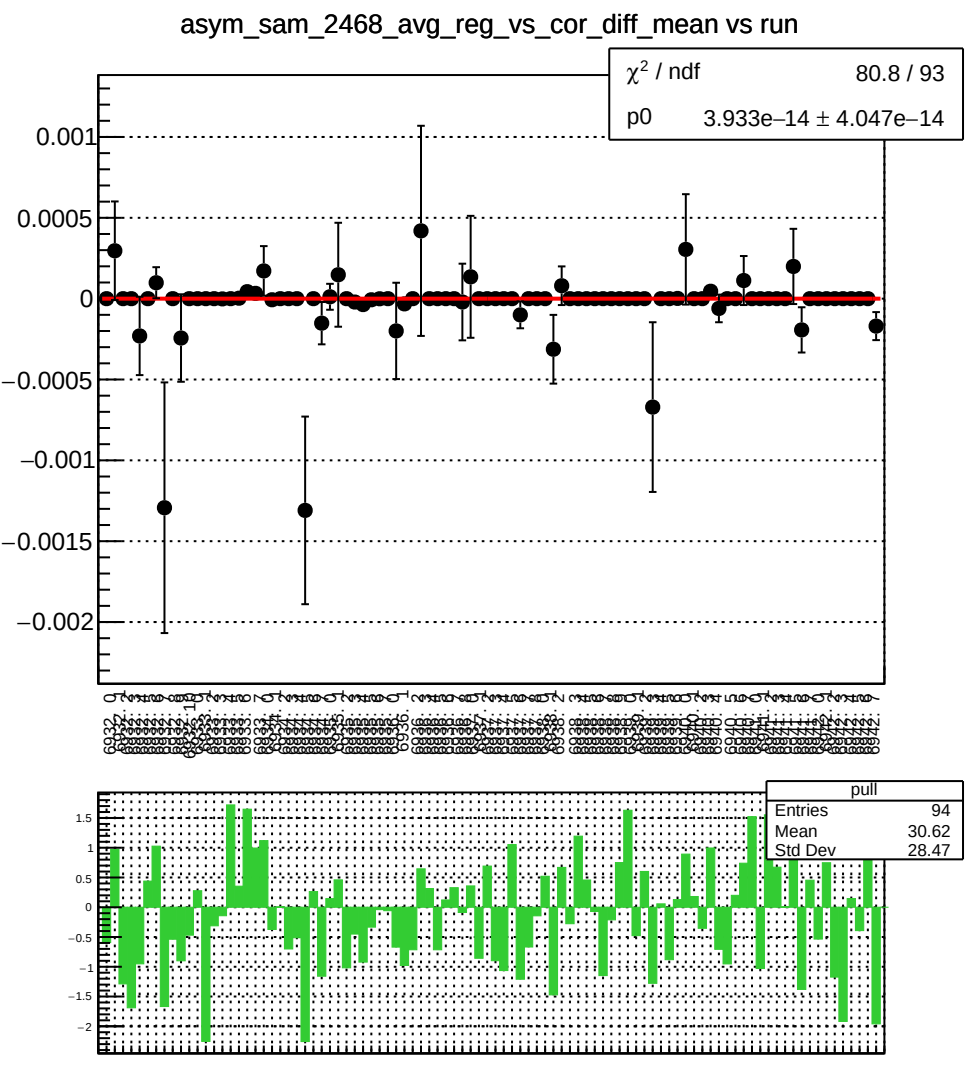

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.24 / 93
p0 201.3 ± 960.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 378.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.005825
Std Dev 0.8766
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

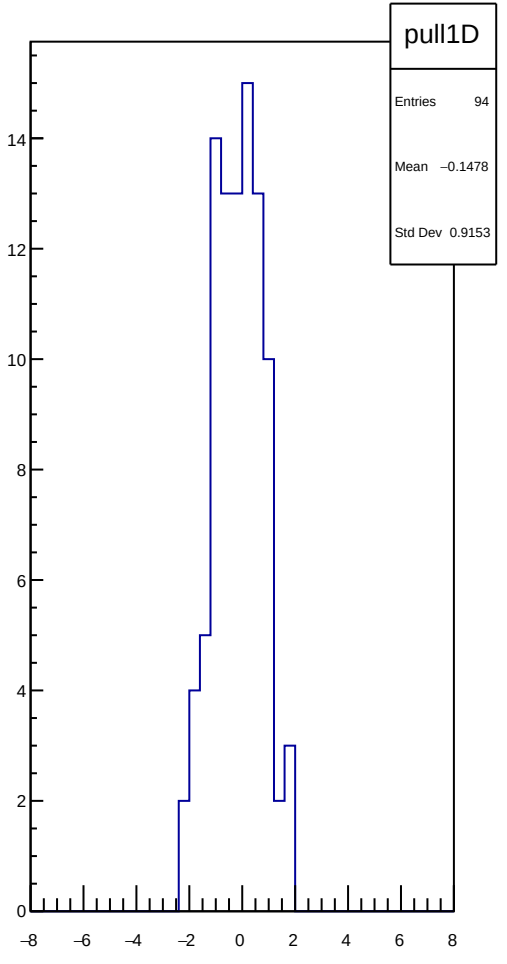

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.137e+04 / 93
p0 899.2 ± 0.6793
1200
1150
1100
1050
1000
950
900
850
800

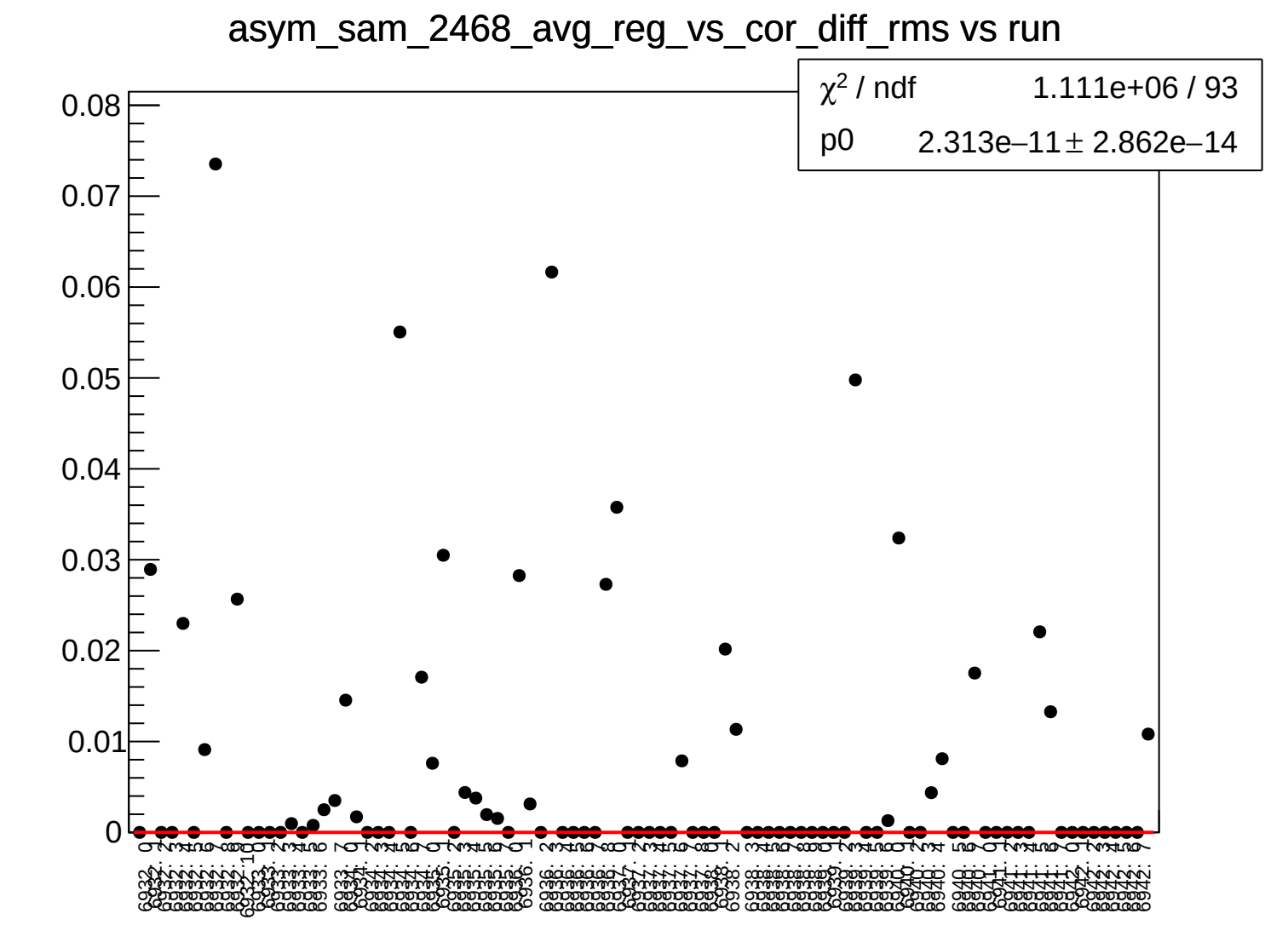

asym_sam_2468_avg_mean vs run
χ² / ndf 73.62 / 93
p0 −348 ± 977
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 344.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

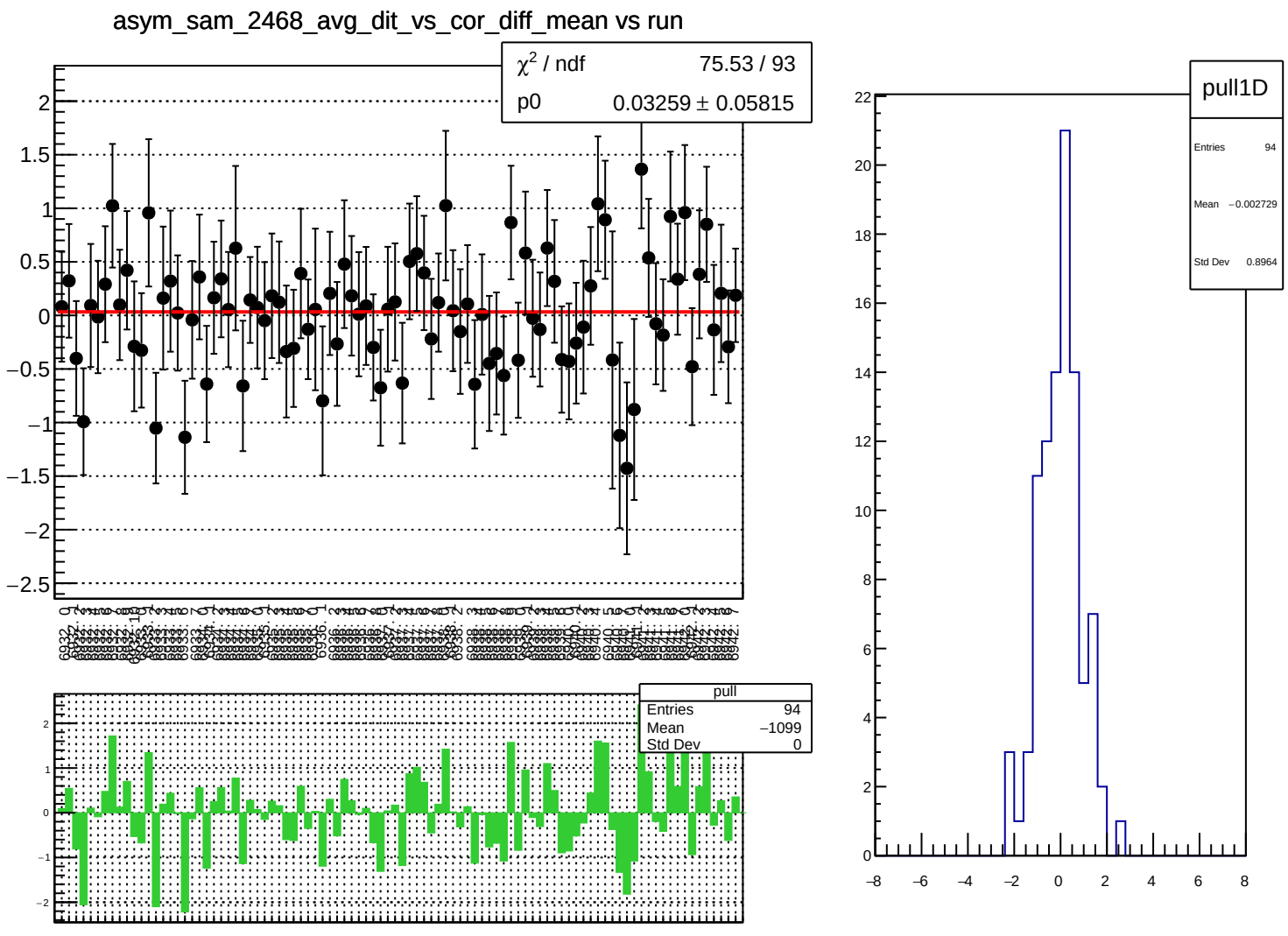

pull1D
Entries 94
Mean 0.006346
Std Dev 0.885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

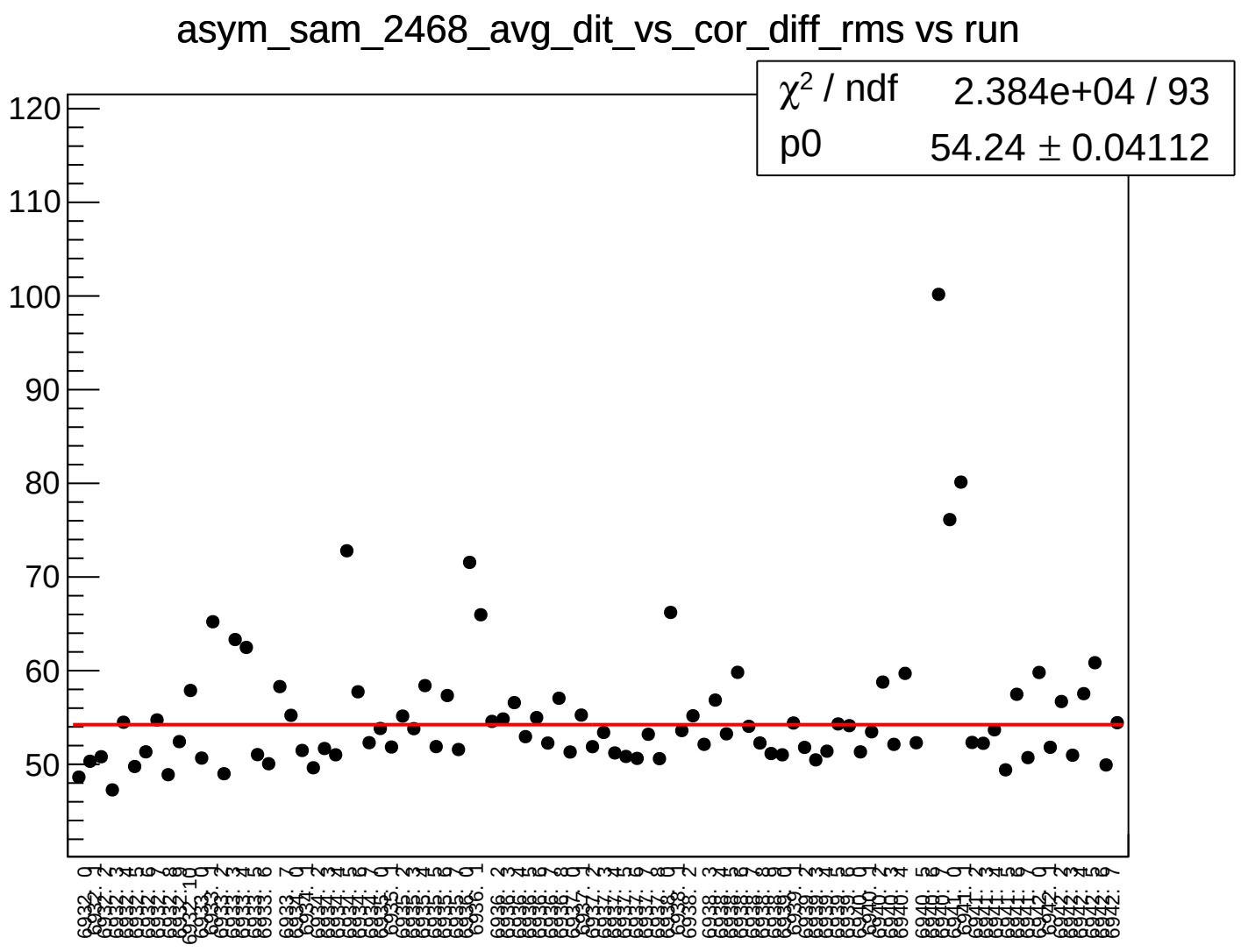

asym_sam_2468_avg_rms vs run
χ² / ndf 1.262e+04 / 93
p0 914.2 ± 0.6908
1250
1200
1150
1100
1050
1000
950
900
850
800

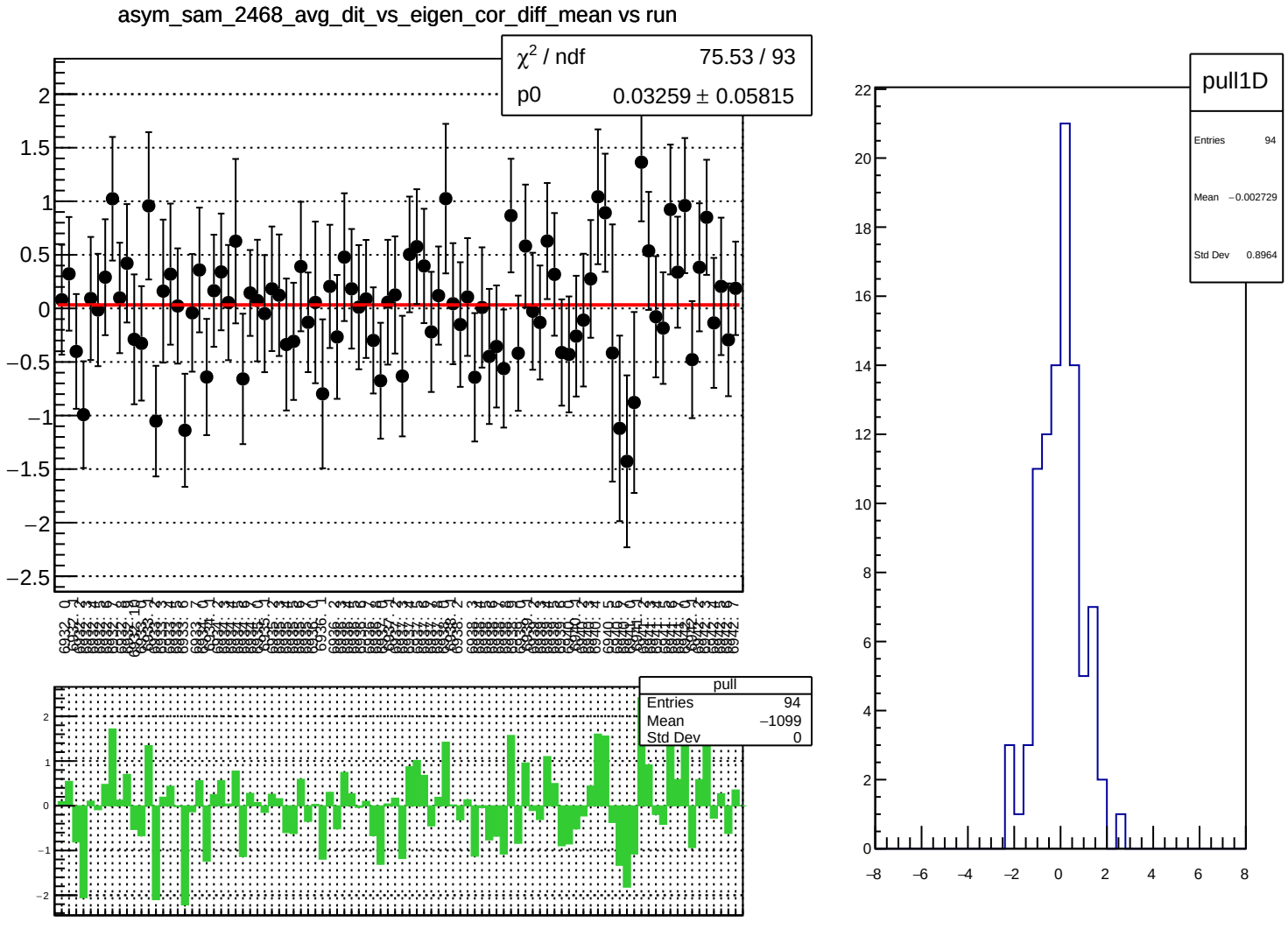

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.8 / 93
p0 3.933e−14 ± 4.047e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 30.62
Std Dev 28.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2

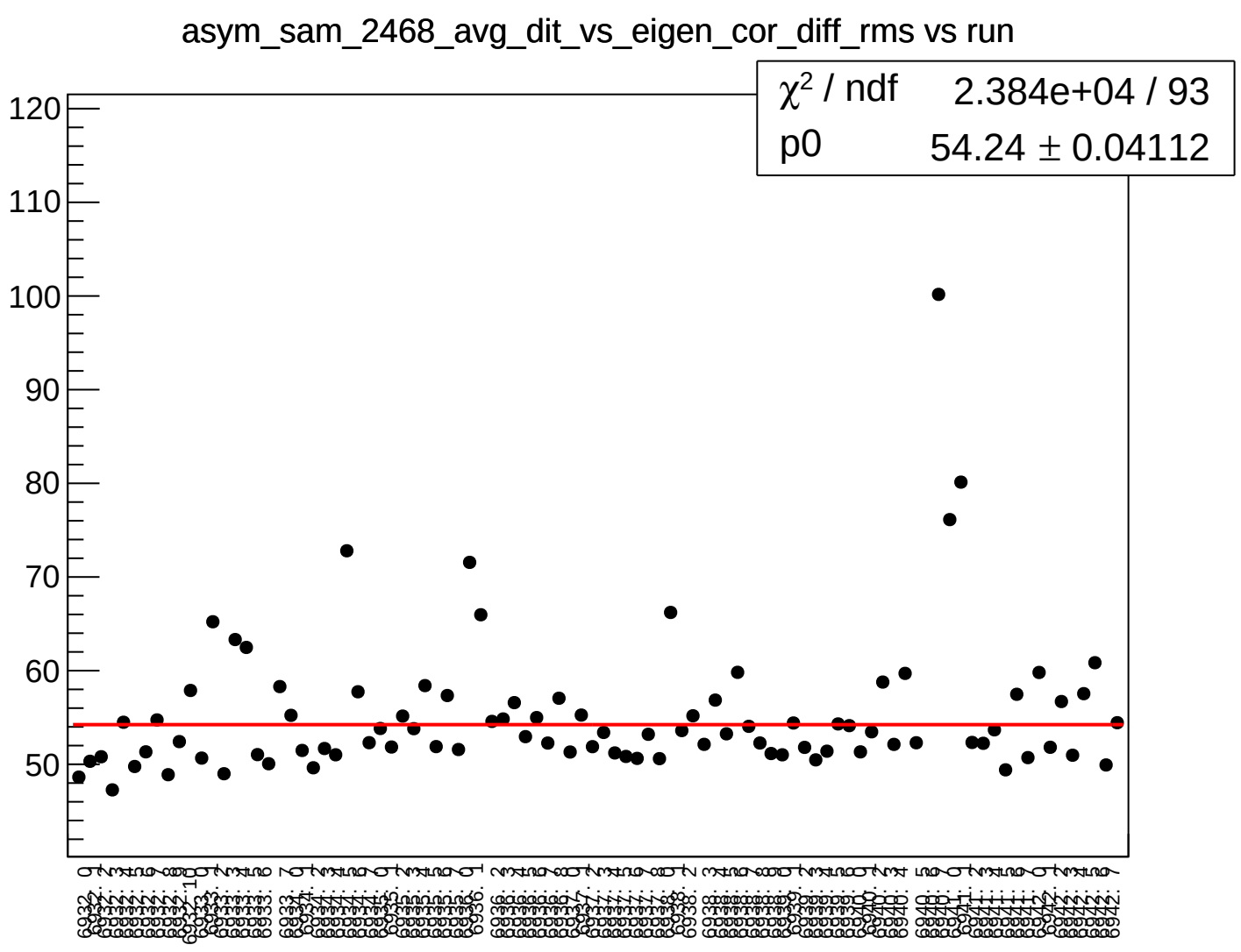

pull1D
Entries 94
Mean −0.1478
Std Dev 0.9153
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

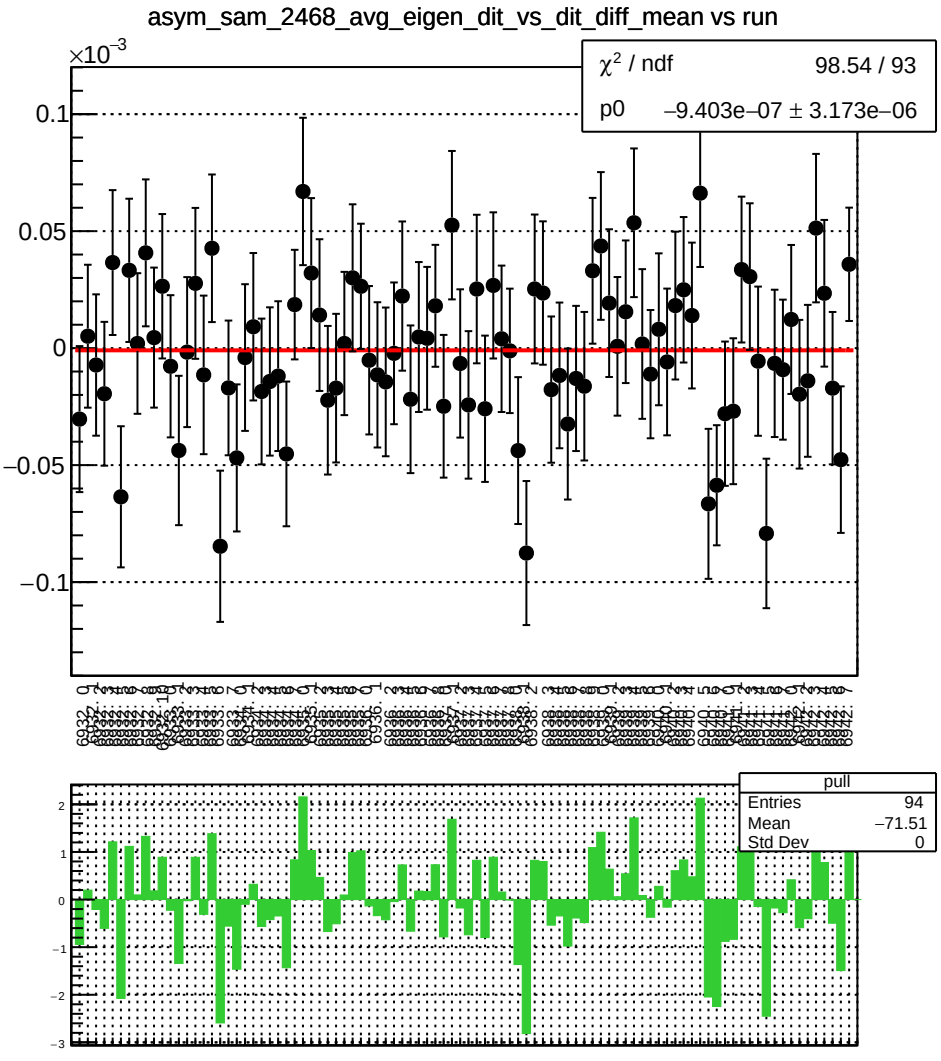

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 93
p0 2.313e−11 ± 2.862e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

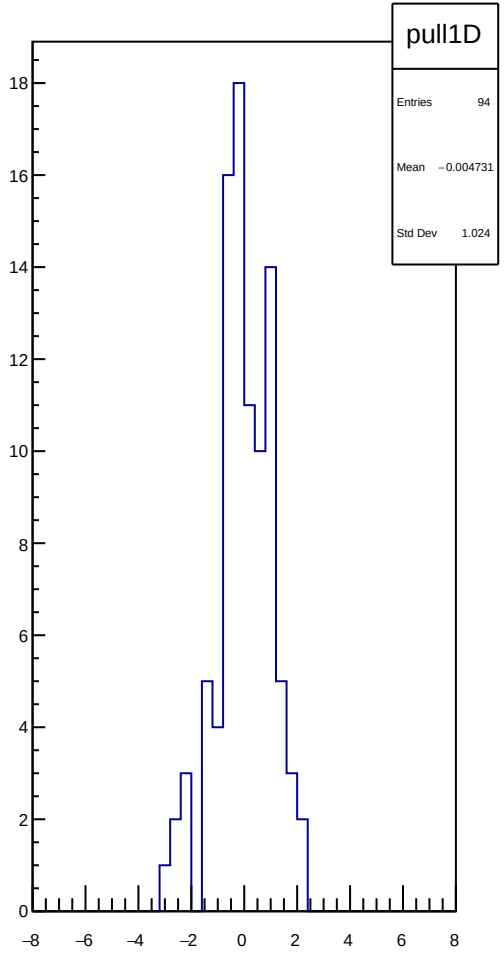

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 93
p0 0.03259 ± 0.05815
pull
Entries 94
Mean −1099
Std Dev 0
pull1D
Entries 94
Mean −0.002729
Std Dev 0.8964

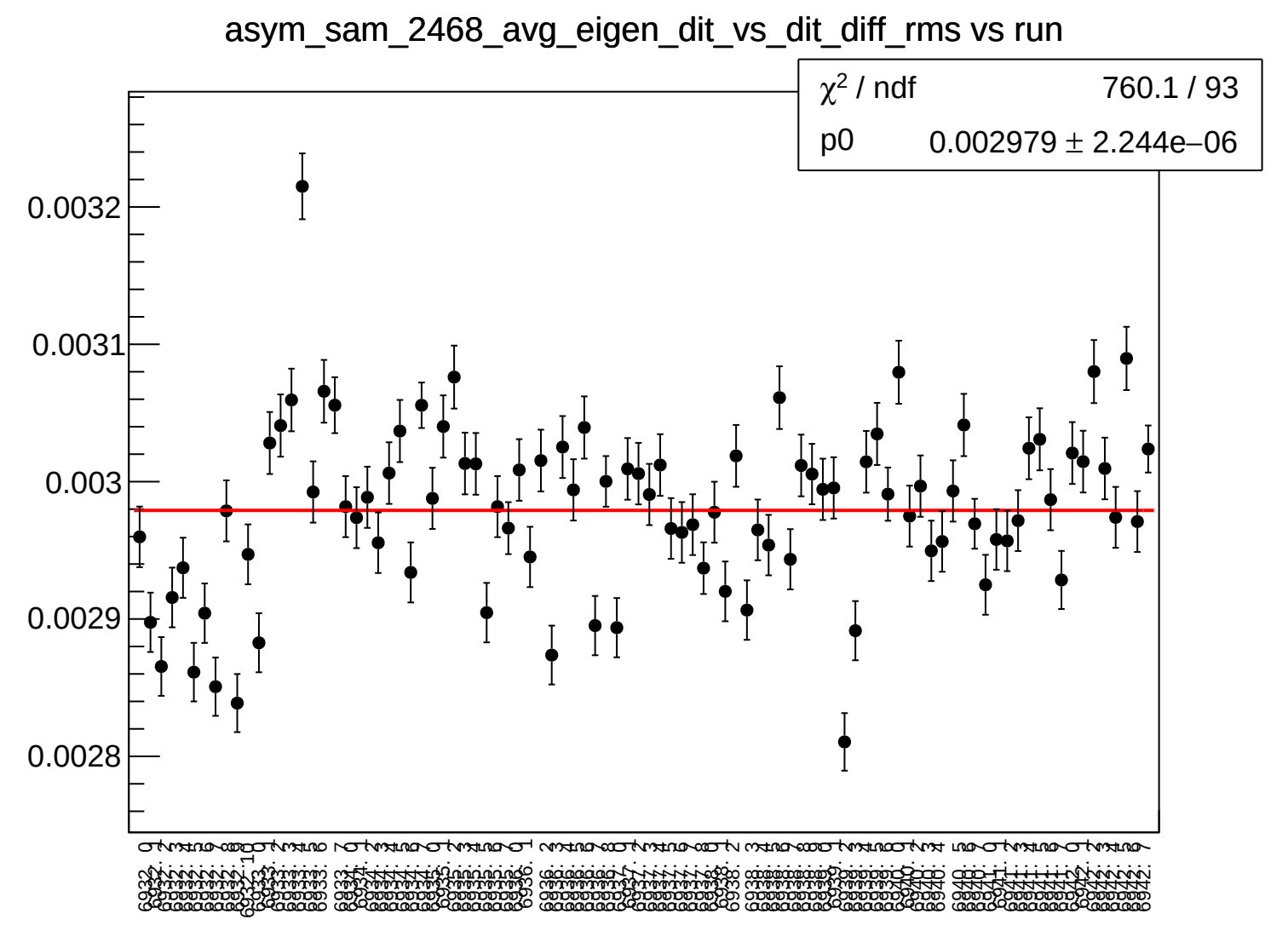

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.384e+04 / 93
p0 54.24 ± 0.04112
120
110
100
90
80
70
60
50

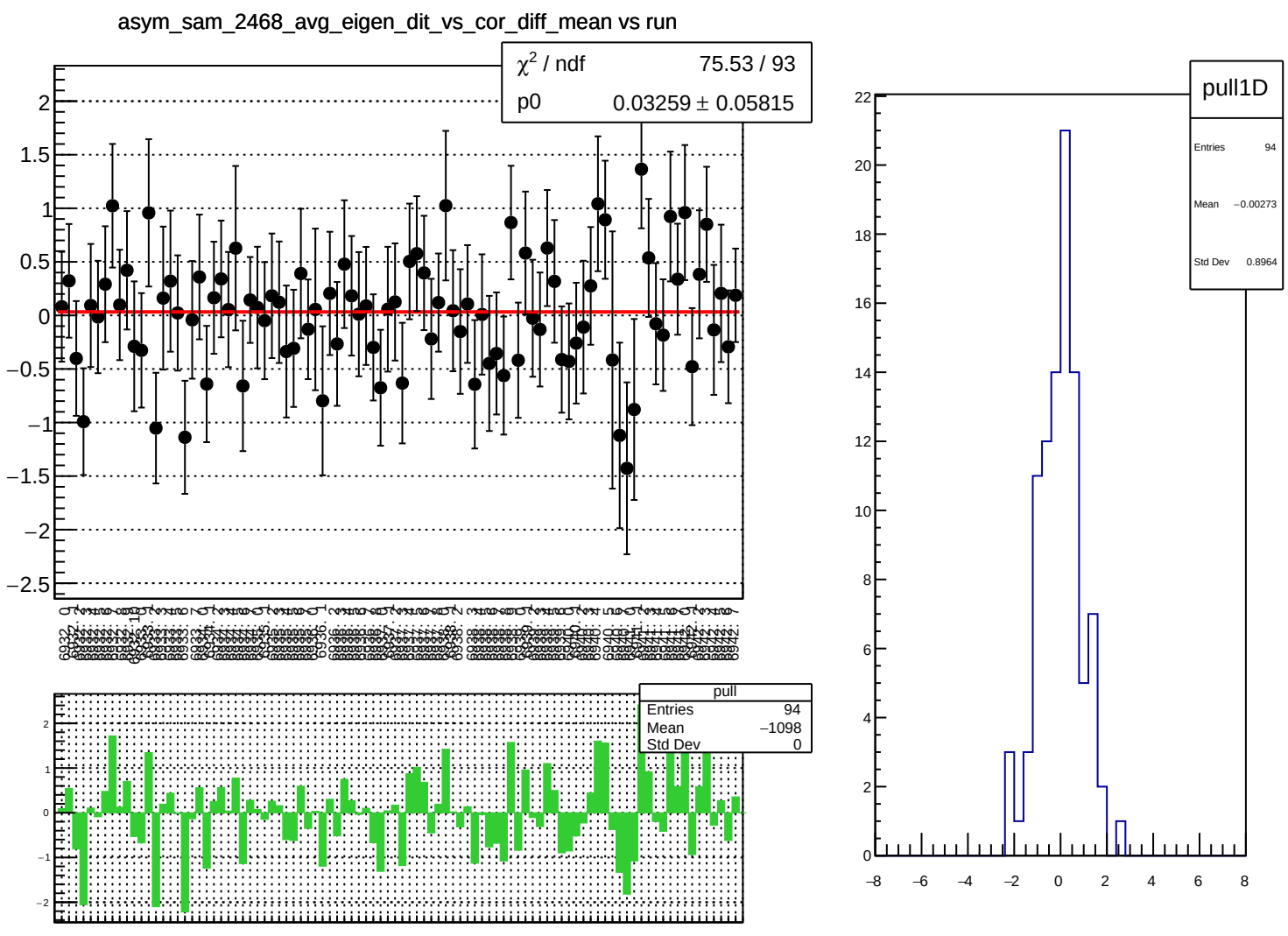

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.53 / 93
p0 0.03259 ± 0.05815
pull
Entries 94
Mean −1099
Std Dev 0
pull1D
Entries 94
Mean −0.002729
Std Dev 0.8964

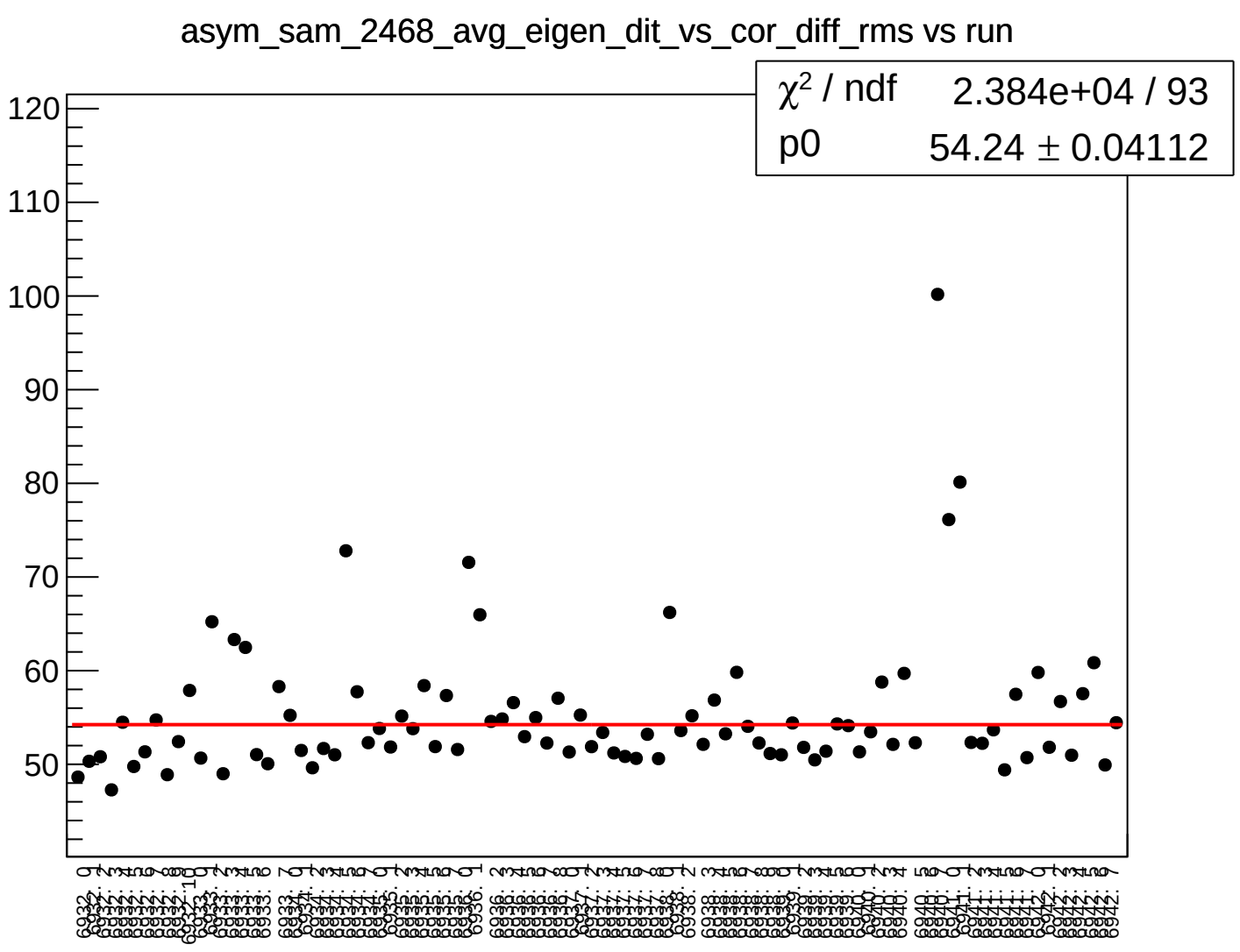

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+04 / 93
p0 54.24 ± 0.04112
120
110
100
90
80
70
60
50

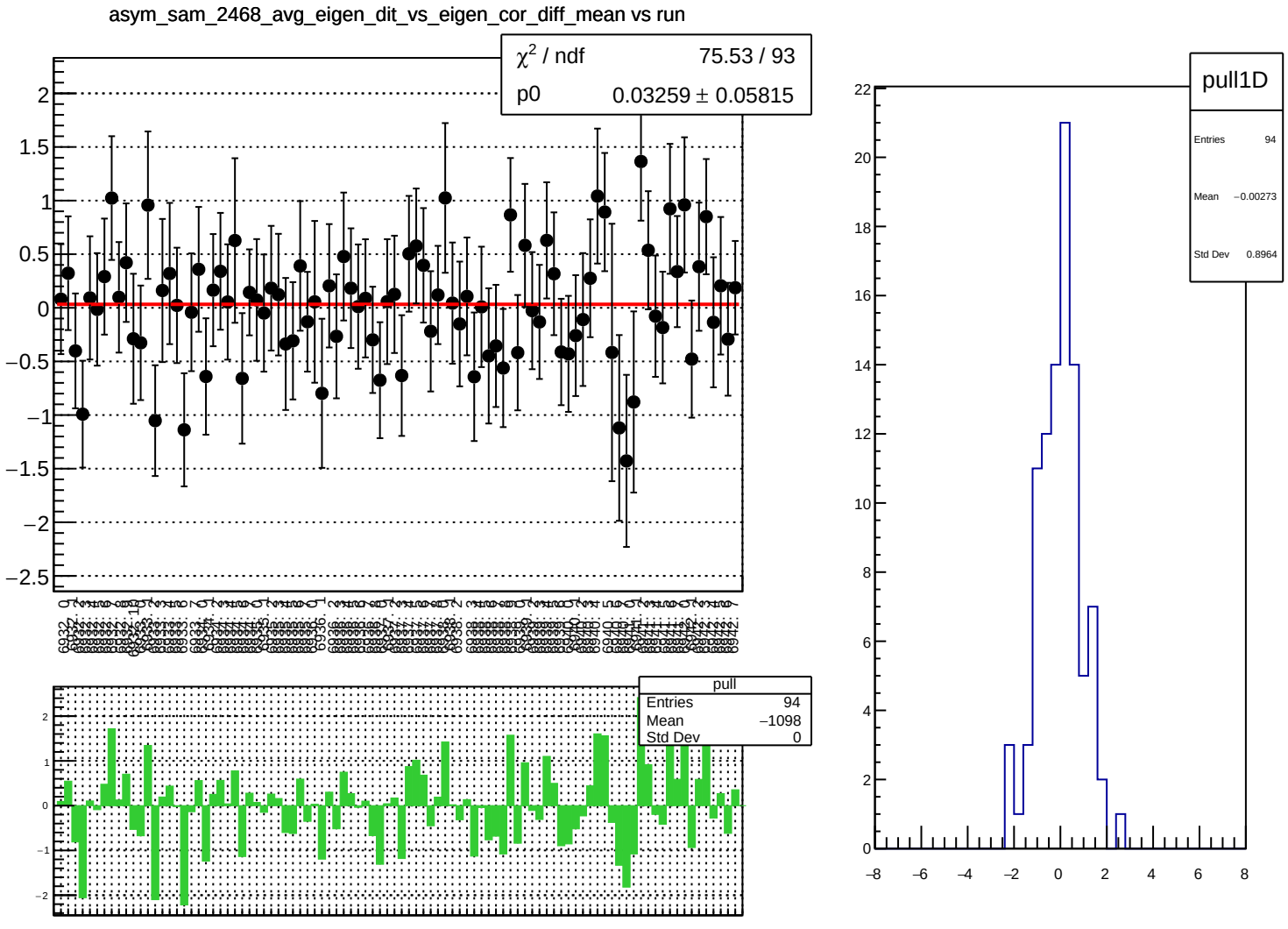

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 98.54 / 93
p0 −9.403e−07 ± 3.173e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −71.51
Std Dev 0
2
1
0
−1
−2
−3

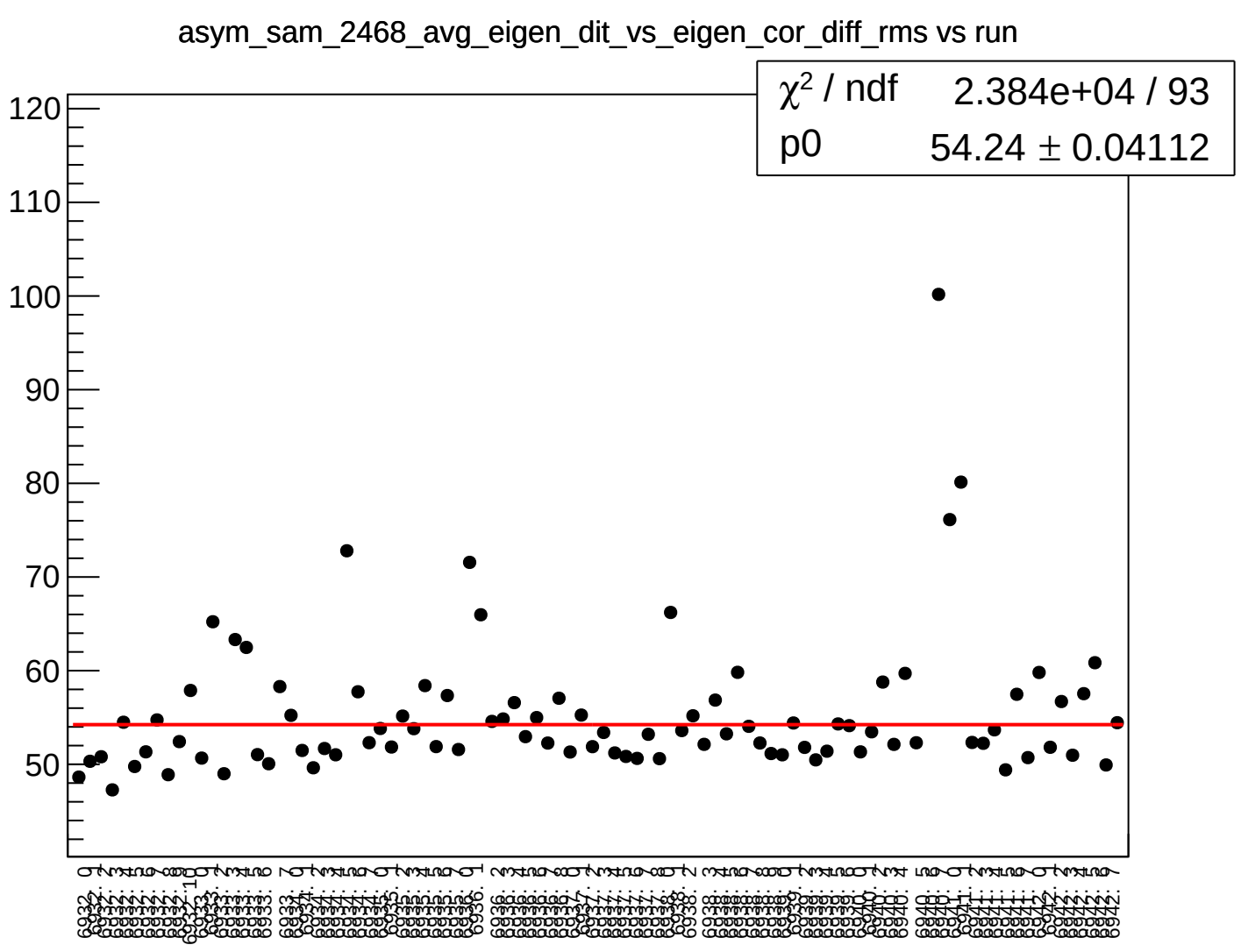

pull1D
Entries 94
Mean −0.004731
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

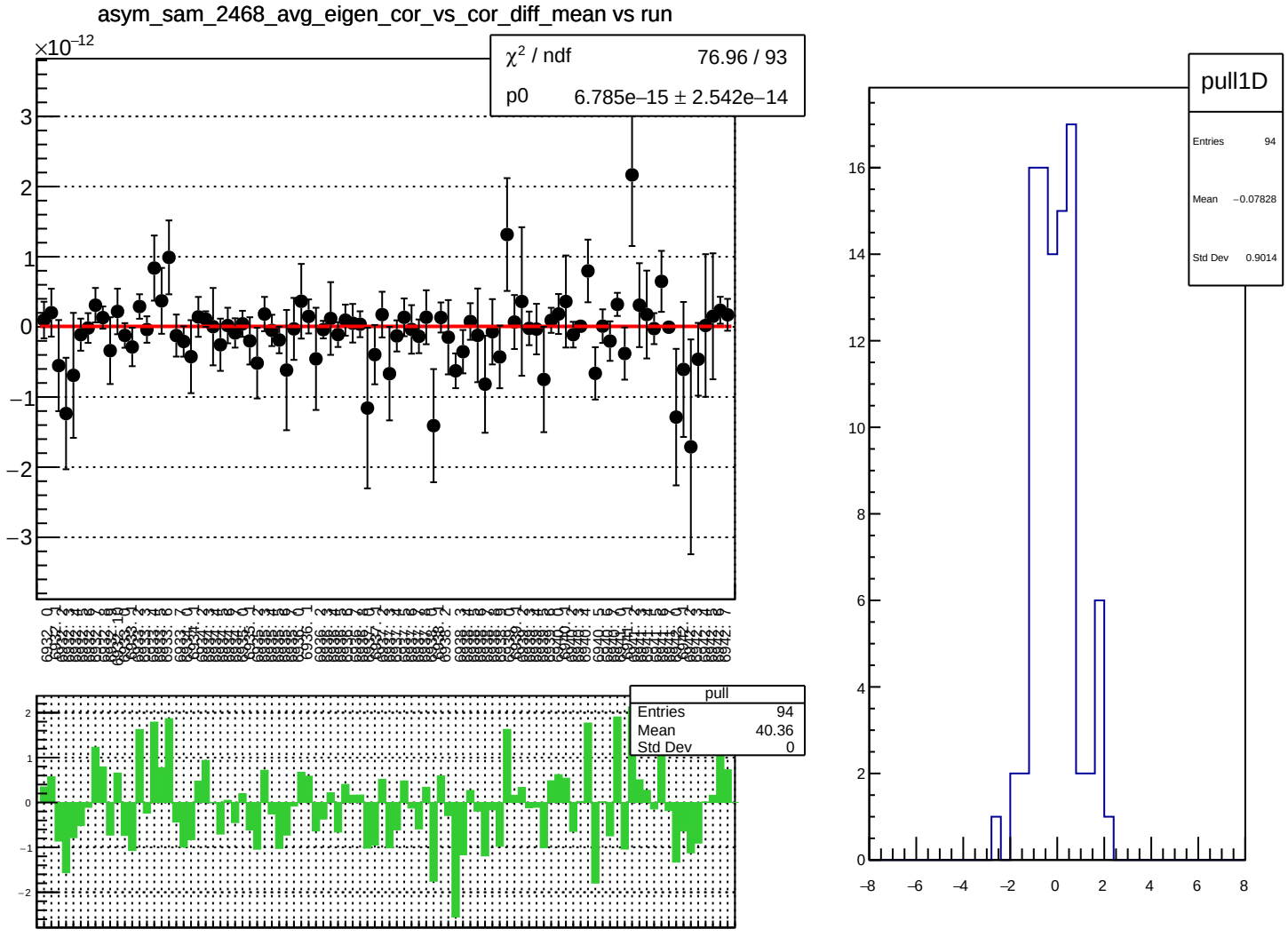

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 760.1 / 93
p0 0.002979 ± 2.244e−06
0.0032
0.0031
0.003
0.0029
0.0028

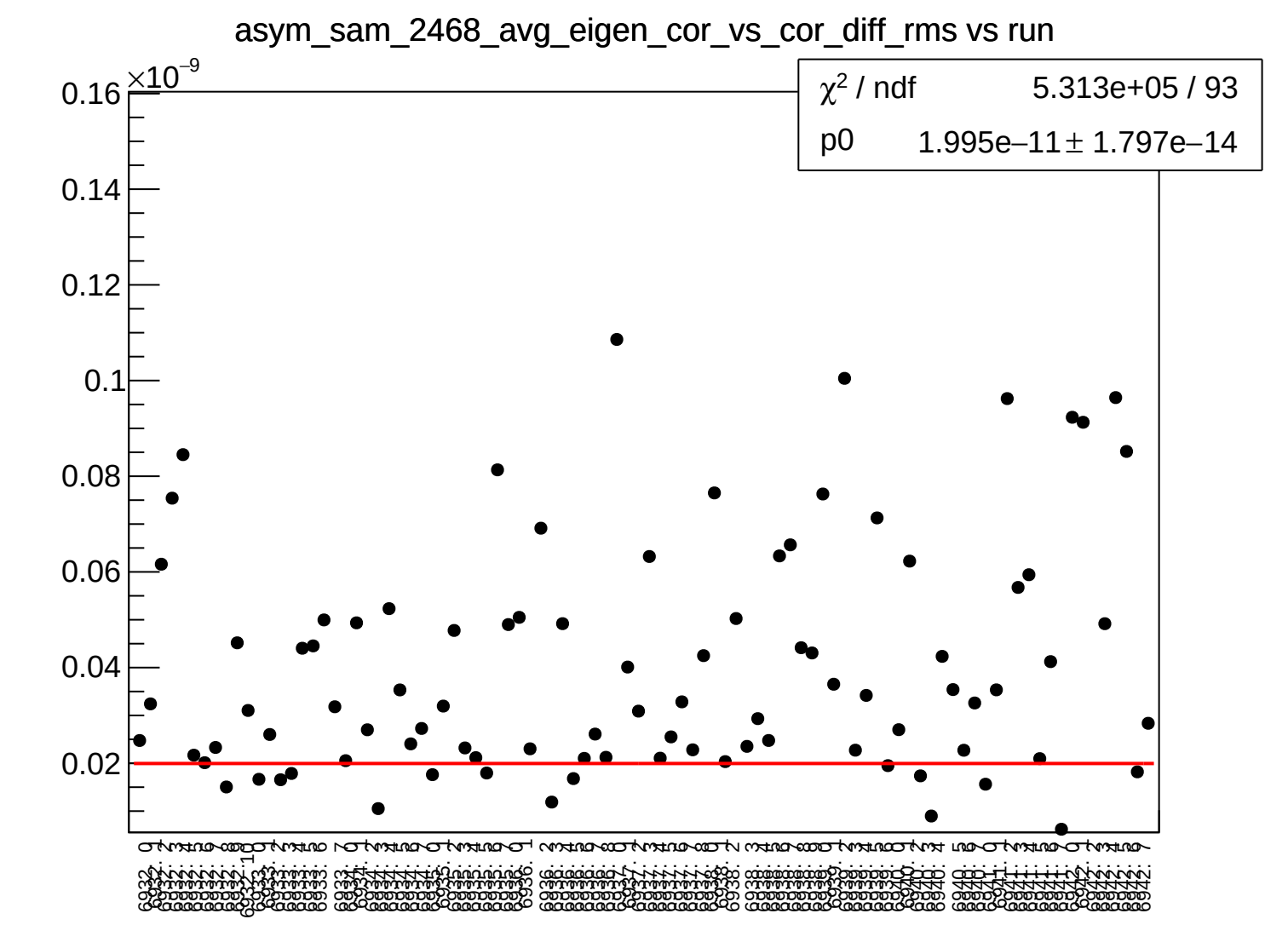

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.53 / 93
p0 0.03259 ± 0.05815
pull
Entries 94
Mean −1098
Std Dev 0
pull1D
Entries 94
Mean −0.00273
Std Dev 0.8964

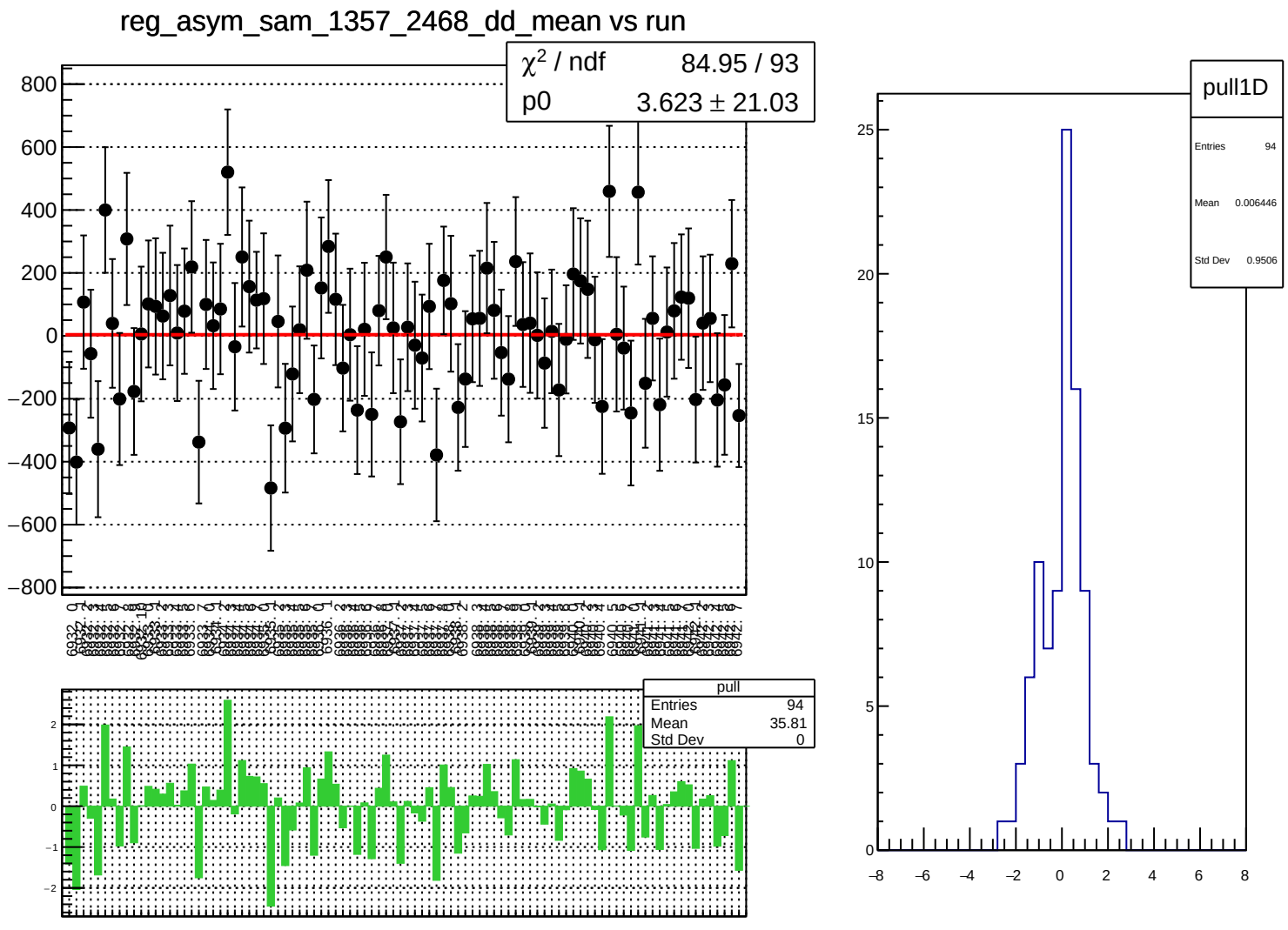

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.384e+04 / 93
p0 54.24 ± 0.04112
120
110
100
90
80
70
60
50

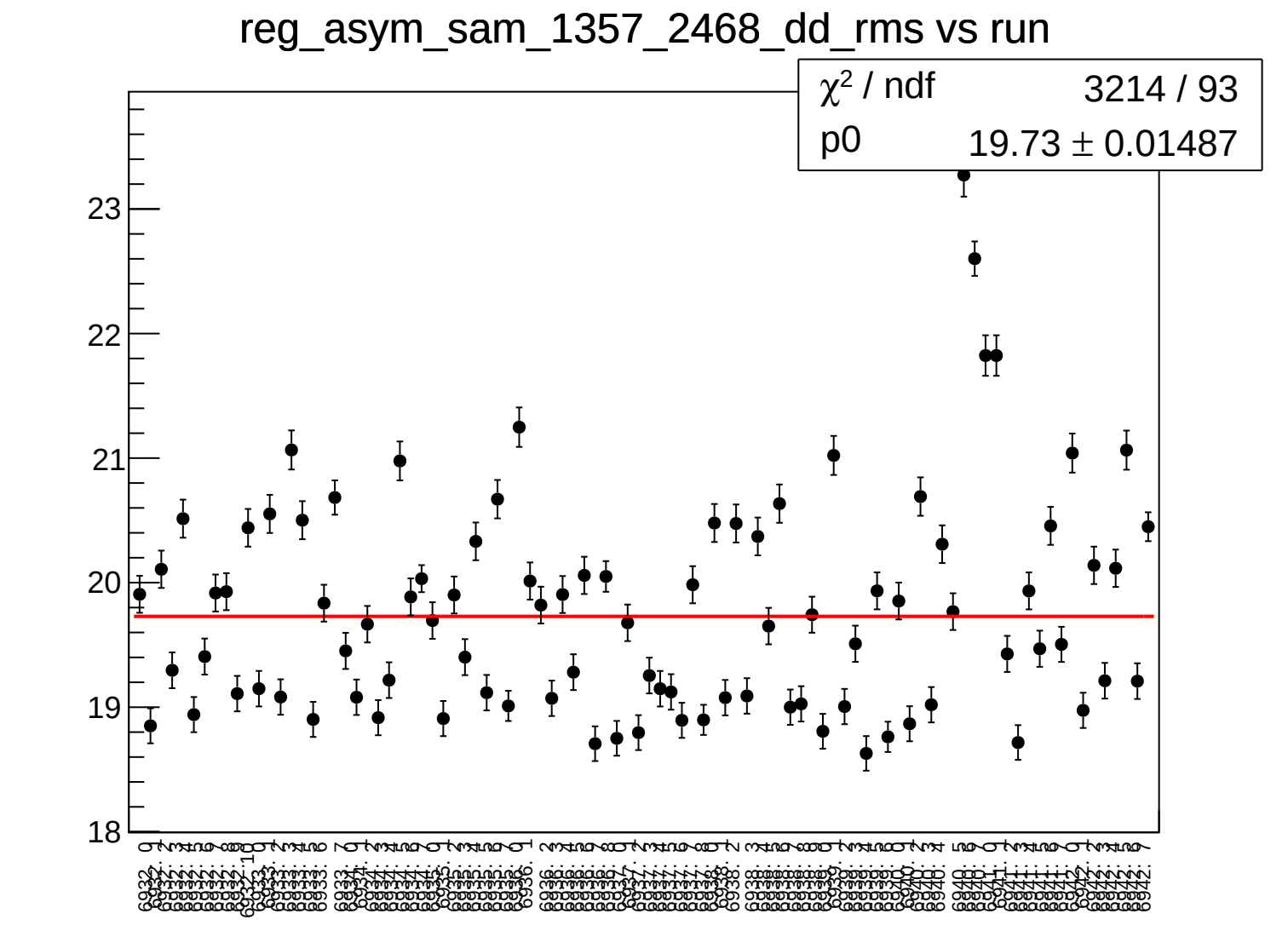

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.53 / 93
p0 0.03259 ± 0.05815
pull
Entries 94
Mean −1098
Std Dev 0
pull1D
Entries 94
Mean −0.00273
Std Dev 0.8964

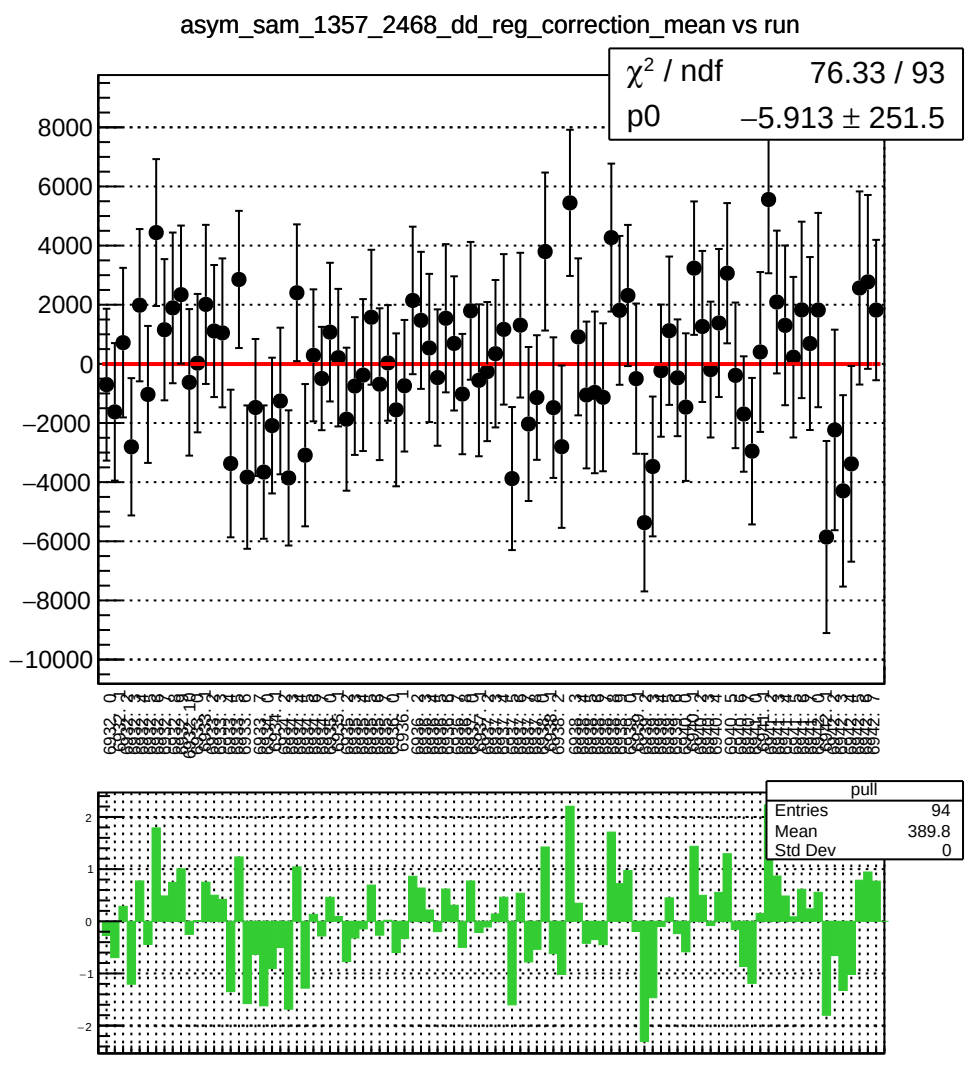

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.384e+04 / 93
p0 54.24 ± 0.04112
120
110
100
90
80
70
60
50

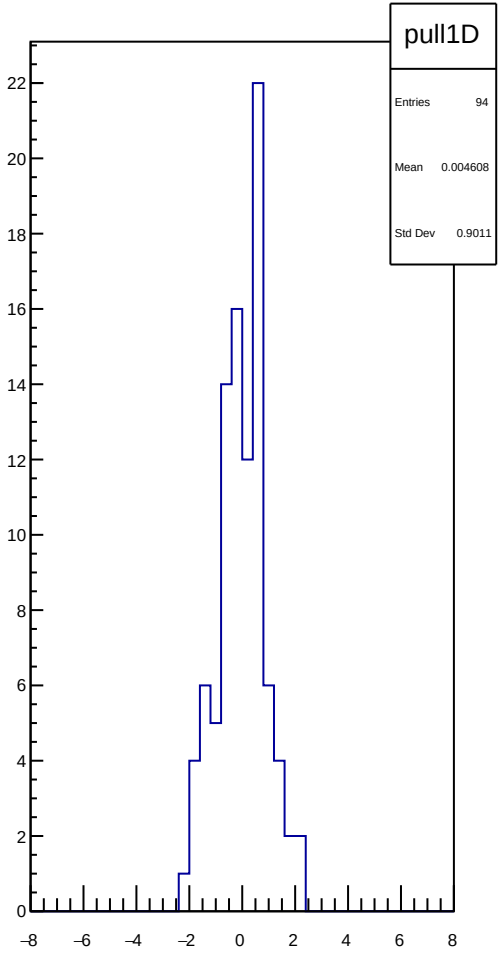

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.96 / 93
p0 6.785e−15 ± 2.542e−14
pull
Entries 94
Mean 40.36
Std Dev 0
pull1D
Entries 94
Mean −0.07828
Std Dev 0.9014

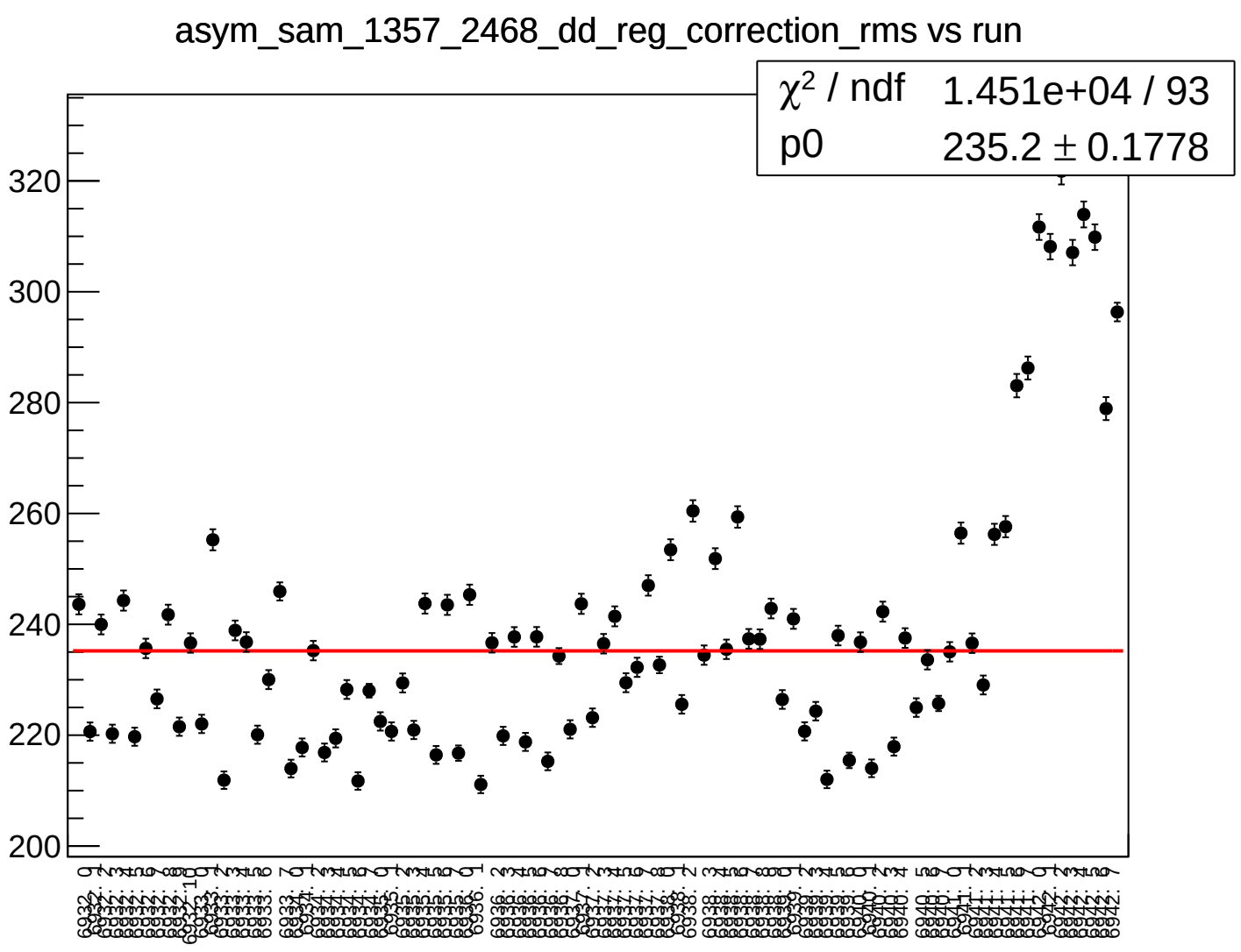

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.313e+05 / 93
p0 1.995e−11 ± 1.797e−14

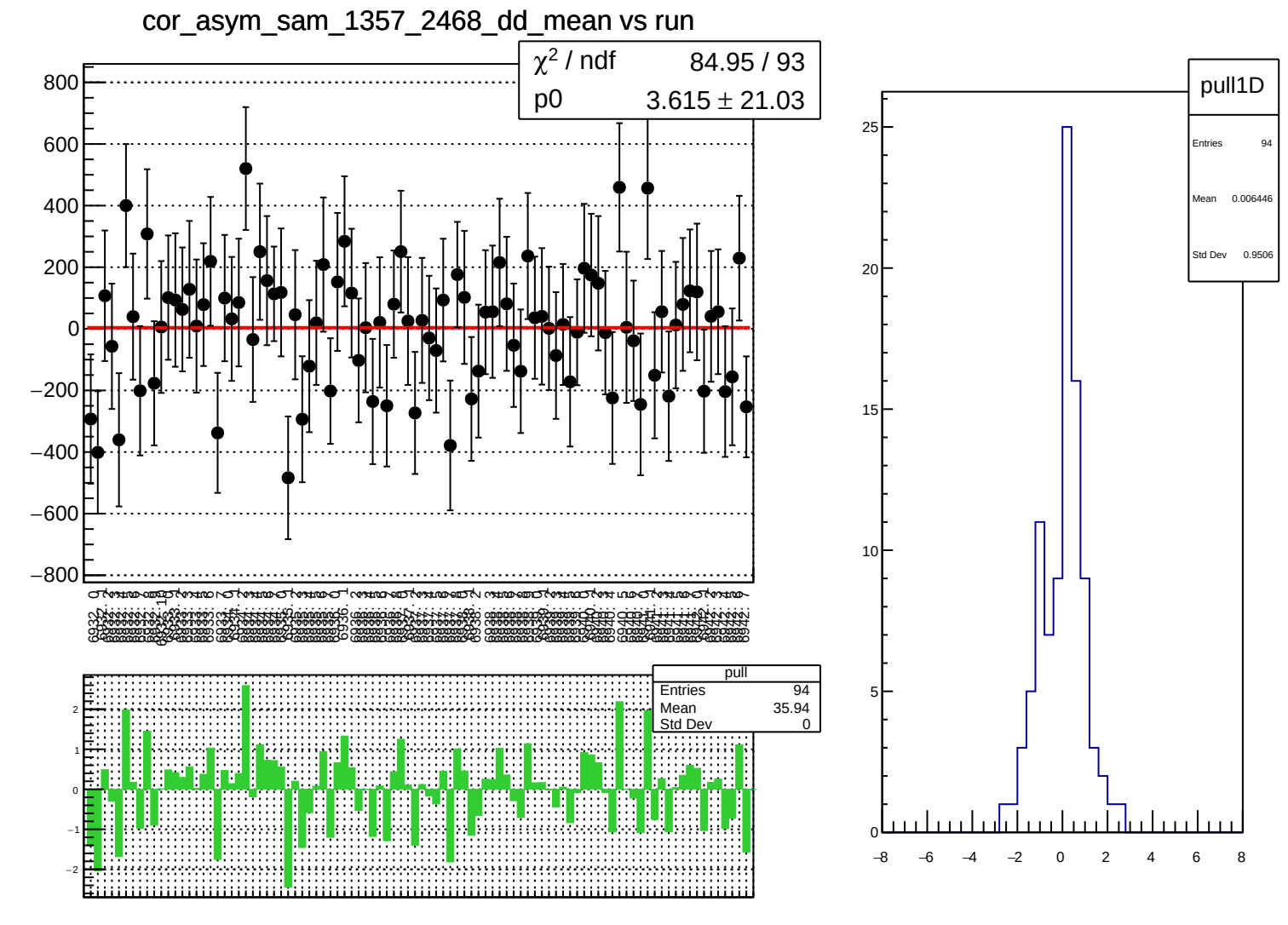

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.95 / 93
p0 3.623 ± 21.03
pull
Entries 94
Mean 35.81
Std Dev 0
pull1D
Entries 94
Mean 0.006446
Std Dev 0.9506

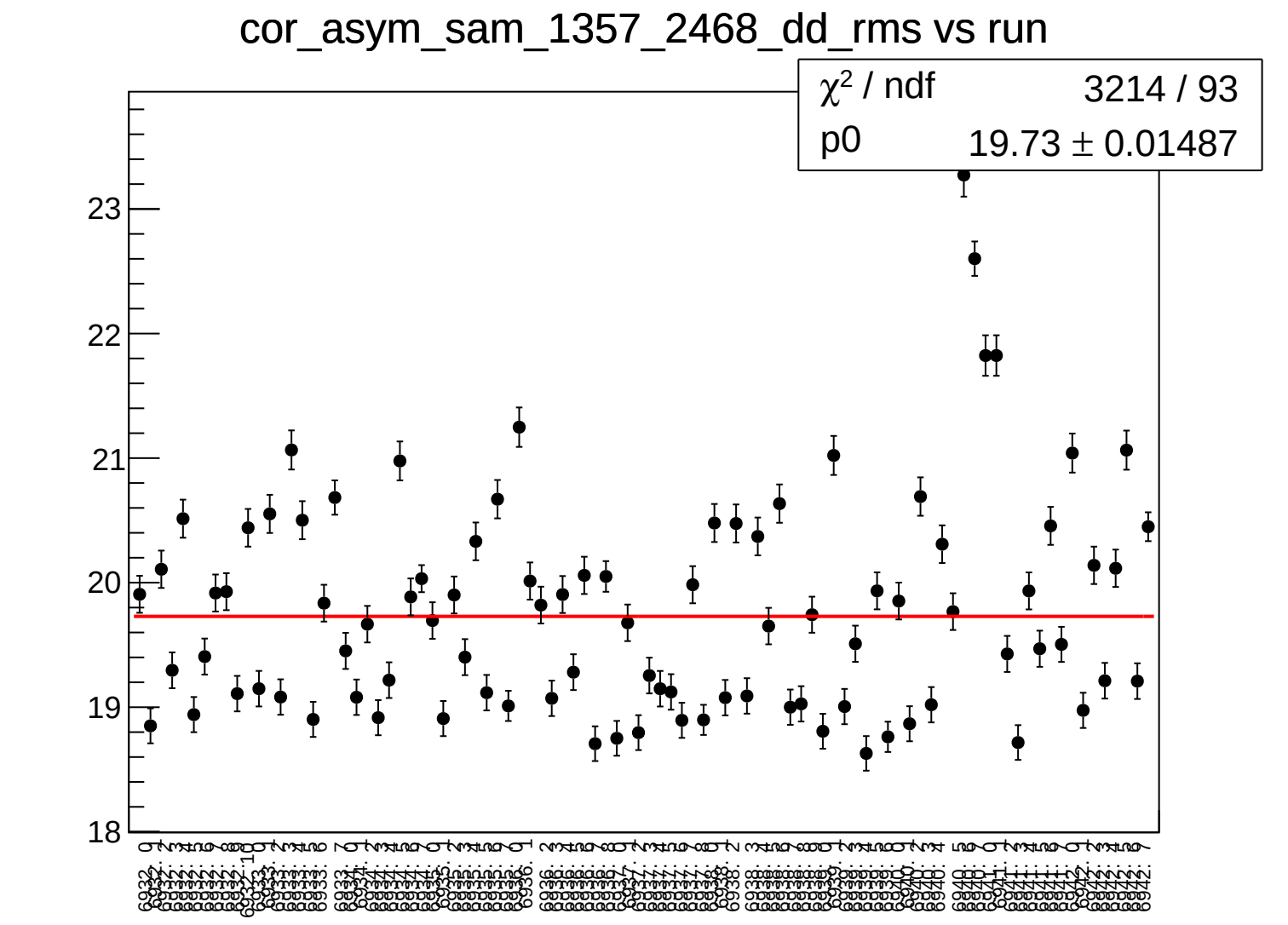

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3214 / 93
p0 19.73 ± 0.01487
23
22
21
20
19
18

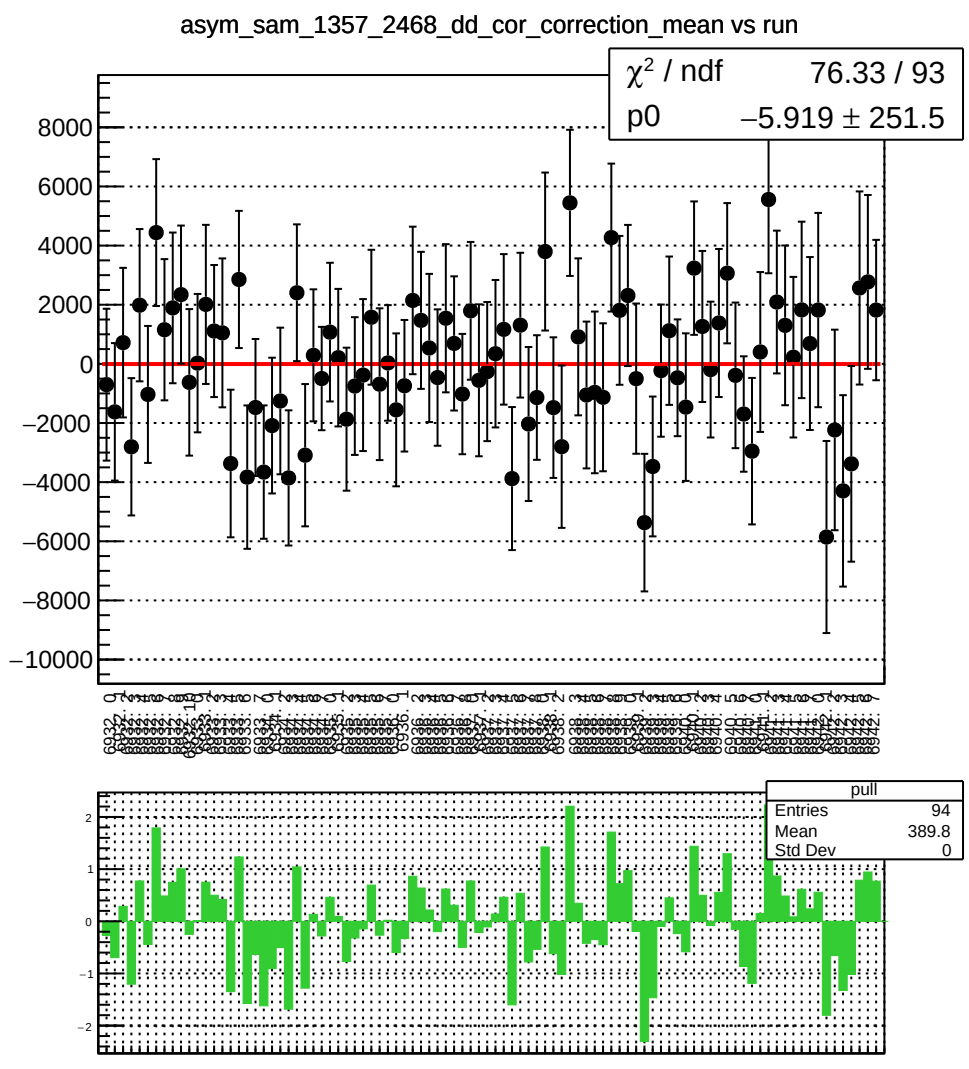

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 76.33 / 93
p0 −5.913 ± 251.5
pull
Entries 94
Mean 389.8
Std Dev 0

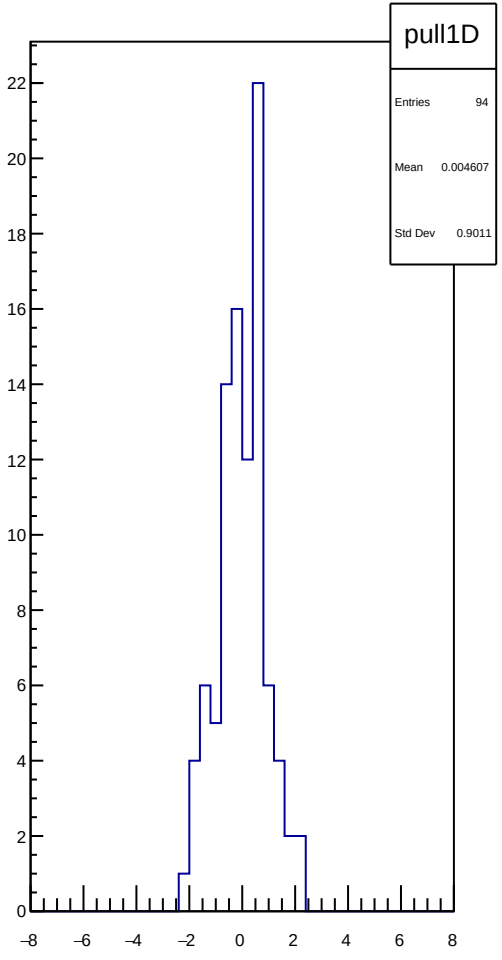

pull1D
Entries 94
Mean 0.004608
Std Dev 0.9011

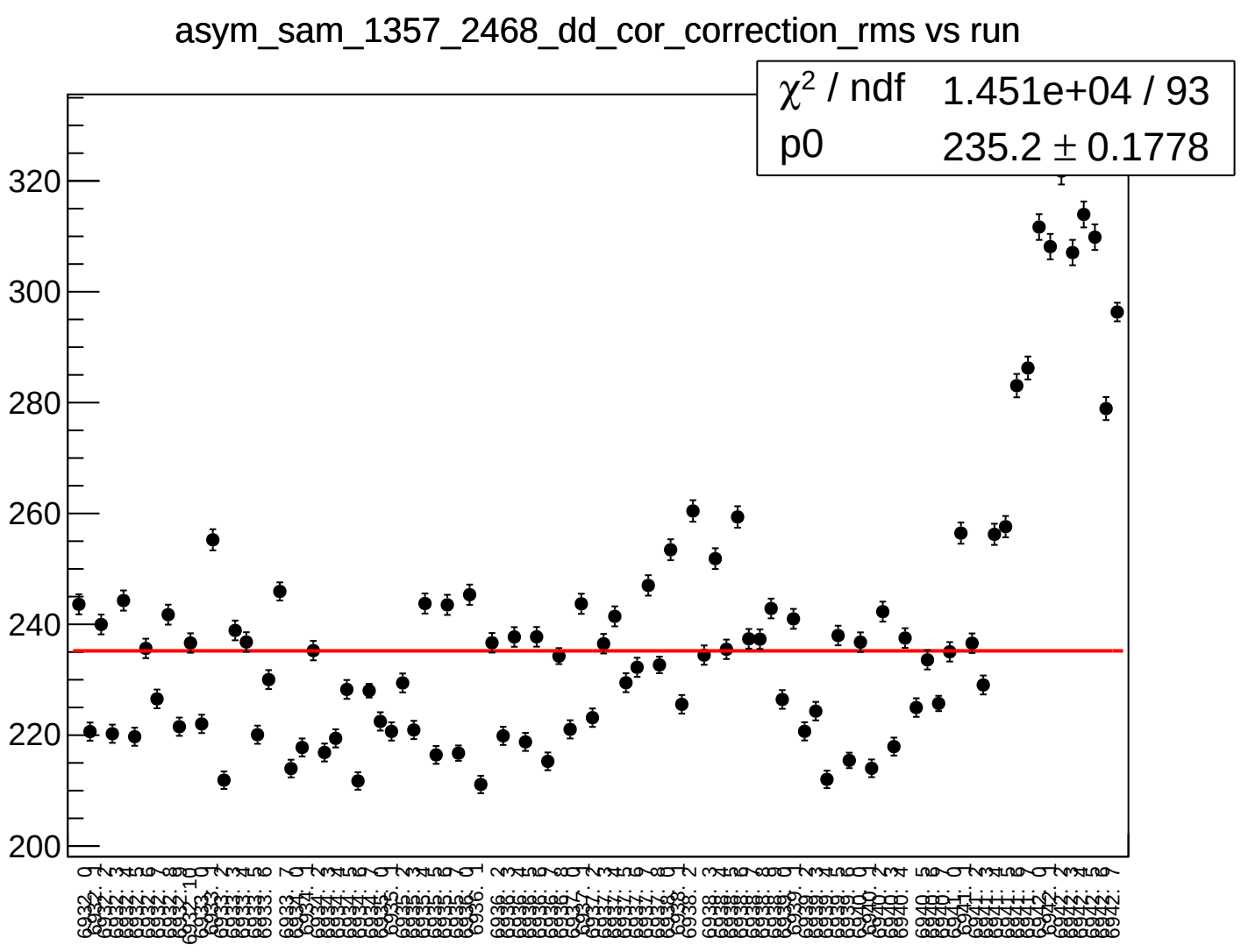

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.451e+04 / 93
p0 235.2 ± 0.1778
320
300
280
260
240
220
200

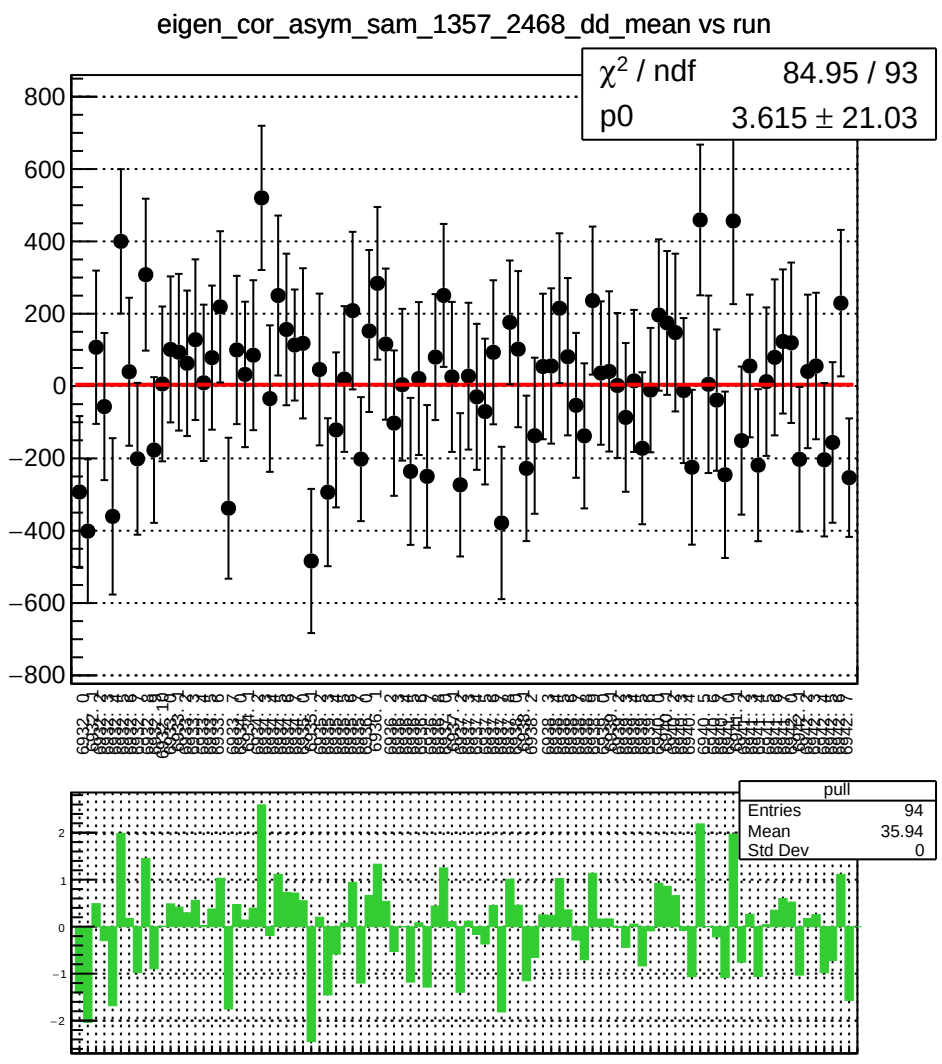

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.95 / 93
p0 3.615 ± 21.03
pull
Entries 94
Mean 35.94
Std Dev 0
pull1D
Entries 94
Mean 0.006446
Std Dev 0.9506

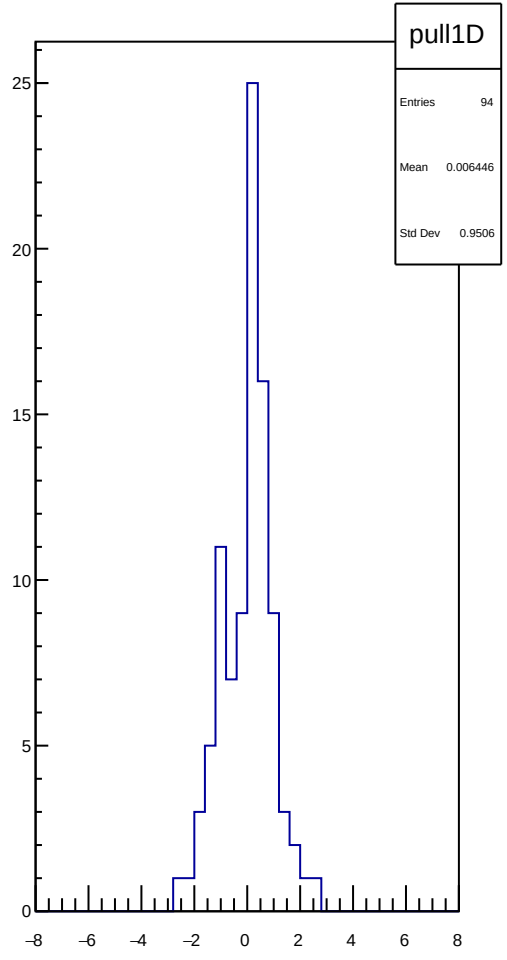

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3214 / 93
p0 19.73 ± 0.01487
23
22
21
20
19
18

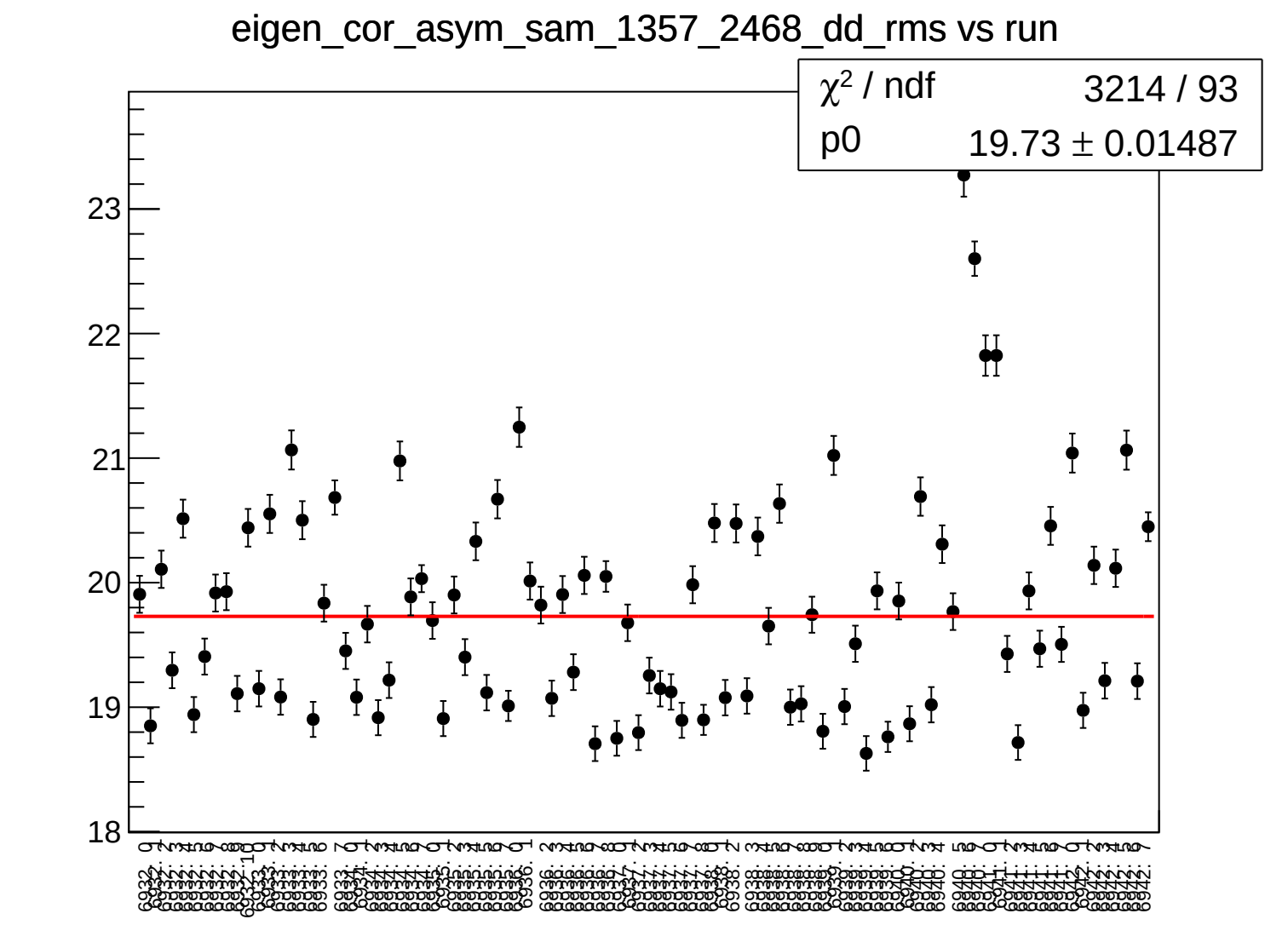

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 76.33 / 93
p0 −5.919 ± 251.5
pull
Entries 94
Mean 389.8
Std Dev 0

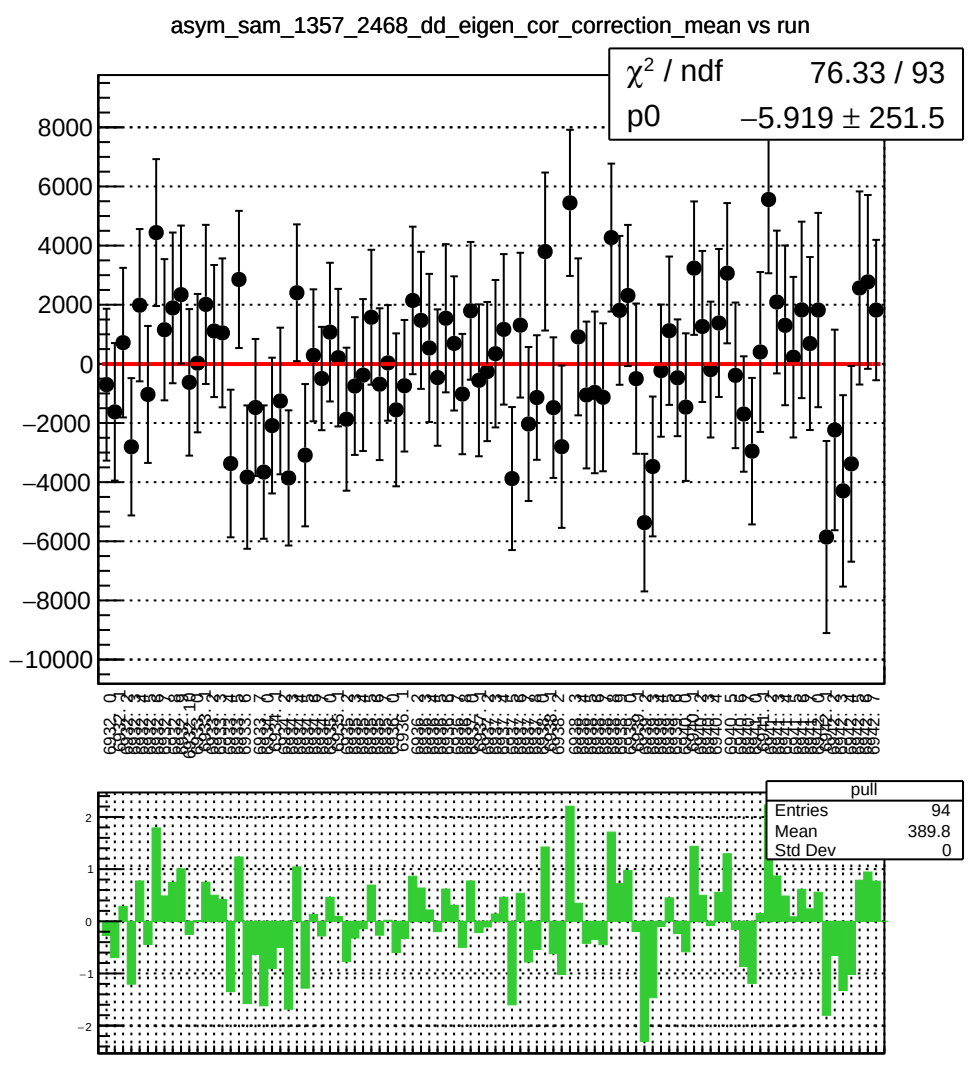

pull1D
Entries 94
Mean 0.004607
Std Dev 0.9011

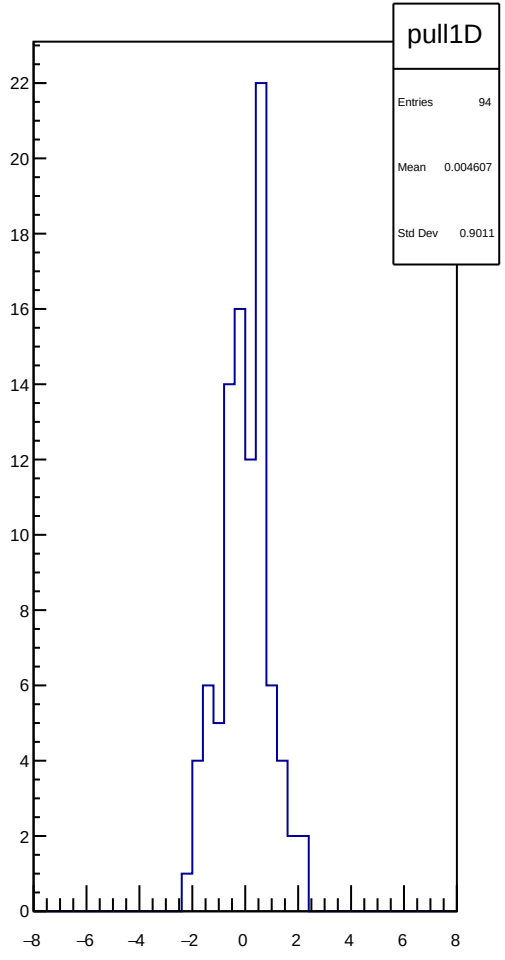

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.451e+04 / 93
p0 235.2 ± 0.1778
320
300
280
260
240
220
200

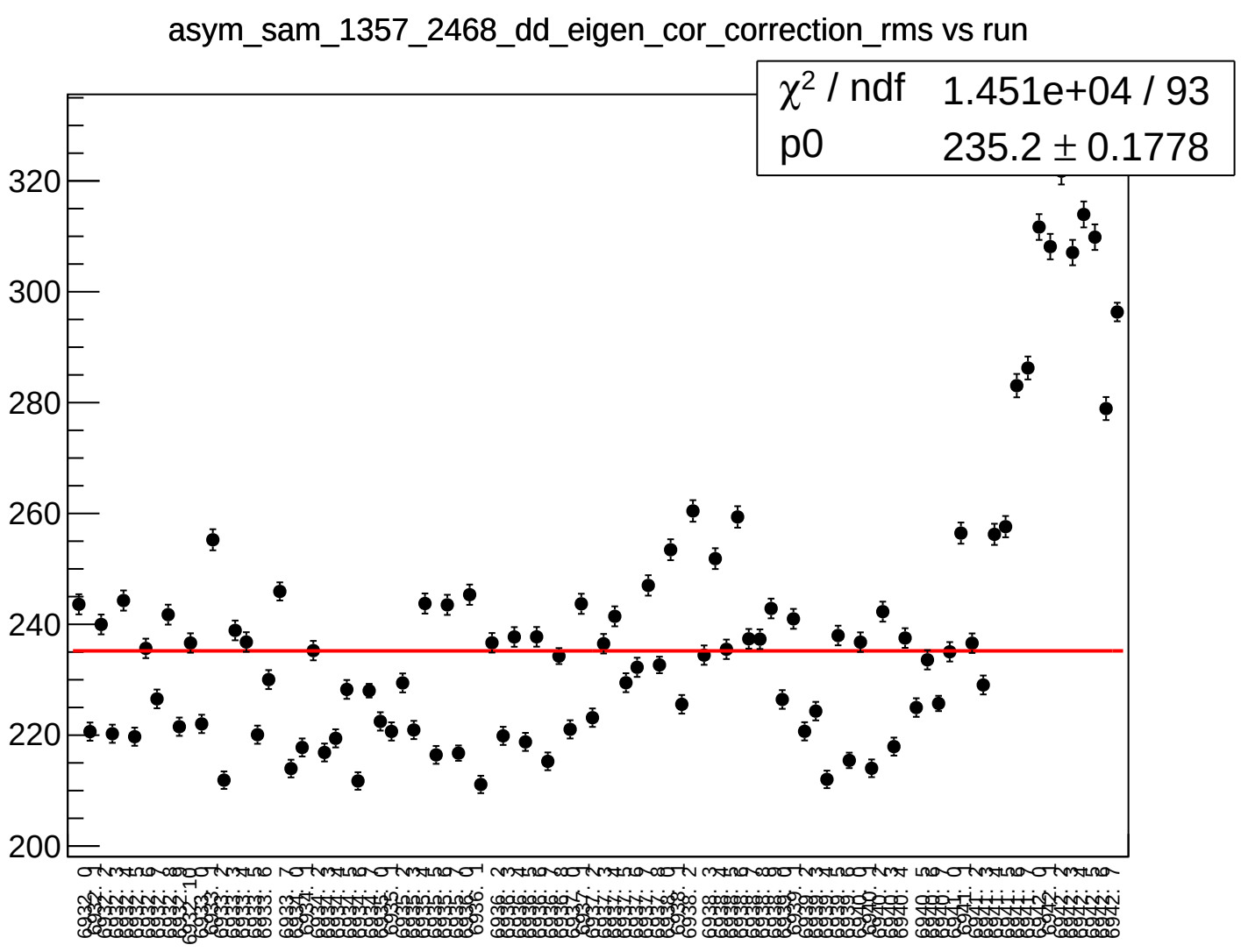

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.95 / 93
p0 3.615 ± 21.03
pull
Entries 94
Mean 35.94
Std Dev 0

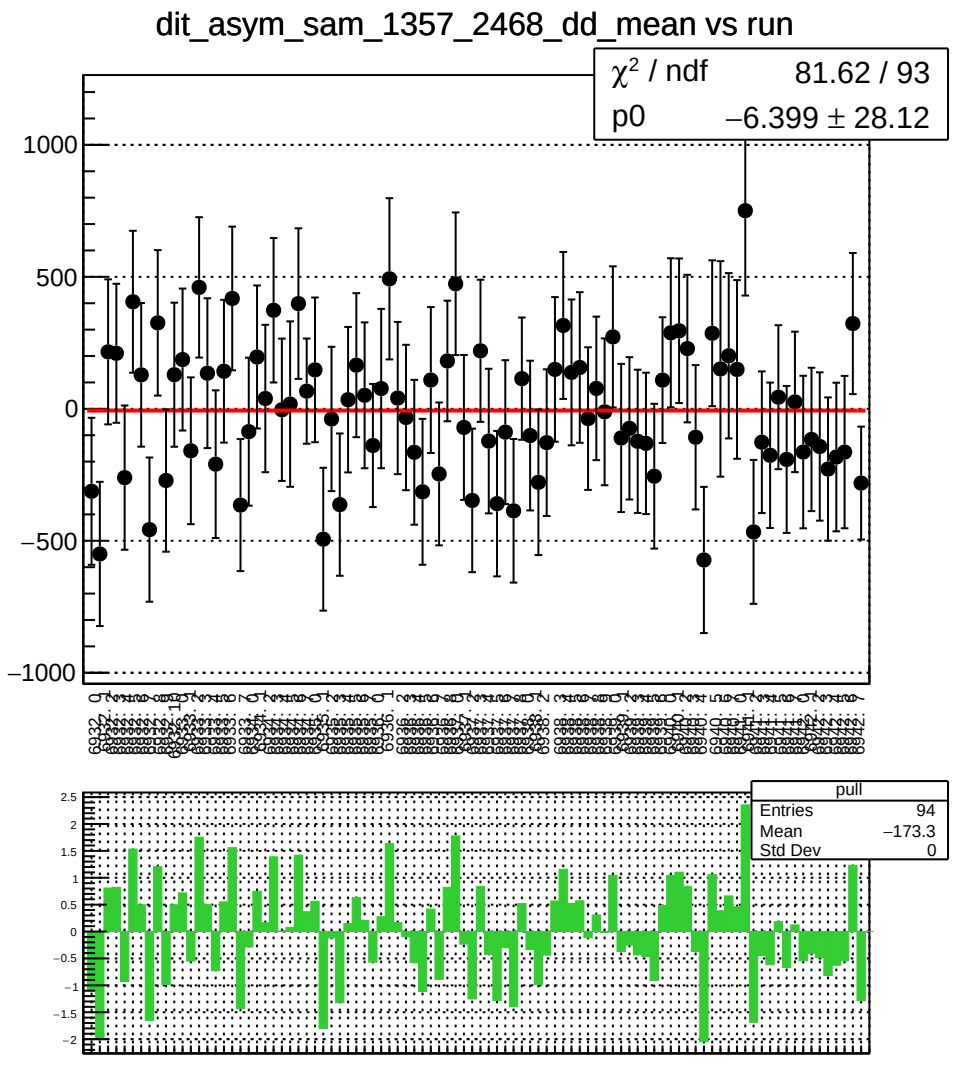

pull1D
Entries 94
Mean 0.006446
Std Dev 0.9506

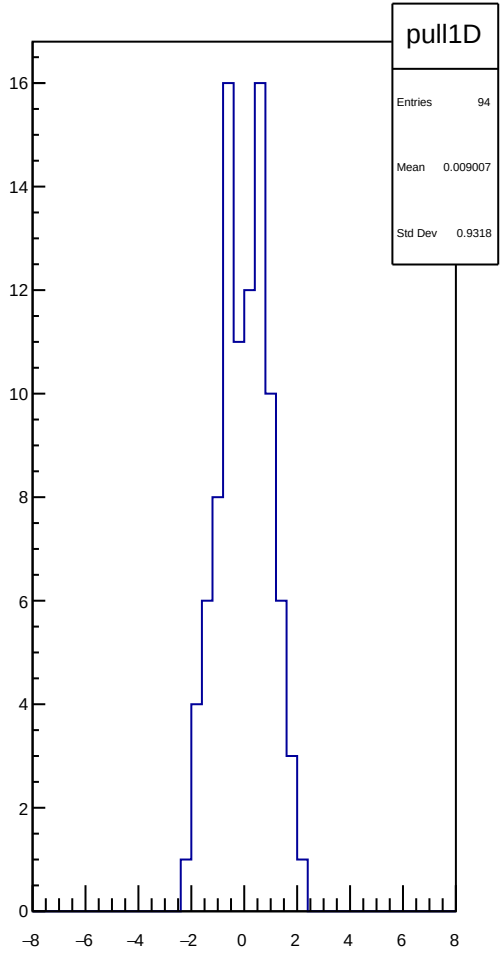

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3214 / 93
p0 19.73 ± 0.01487
23
22
21
20
19
18

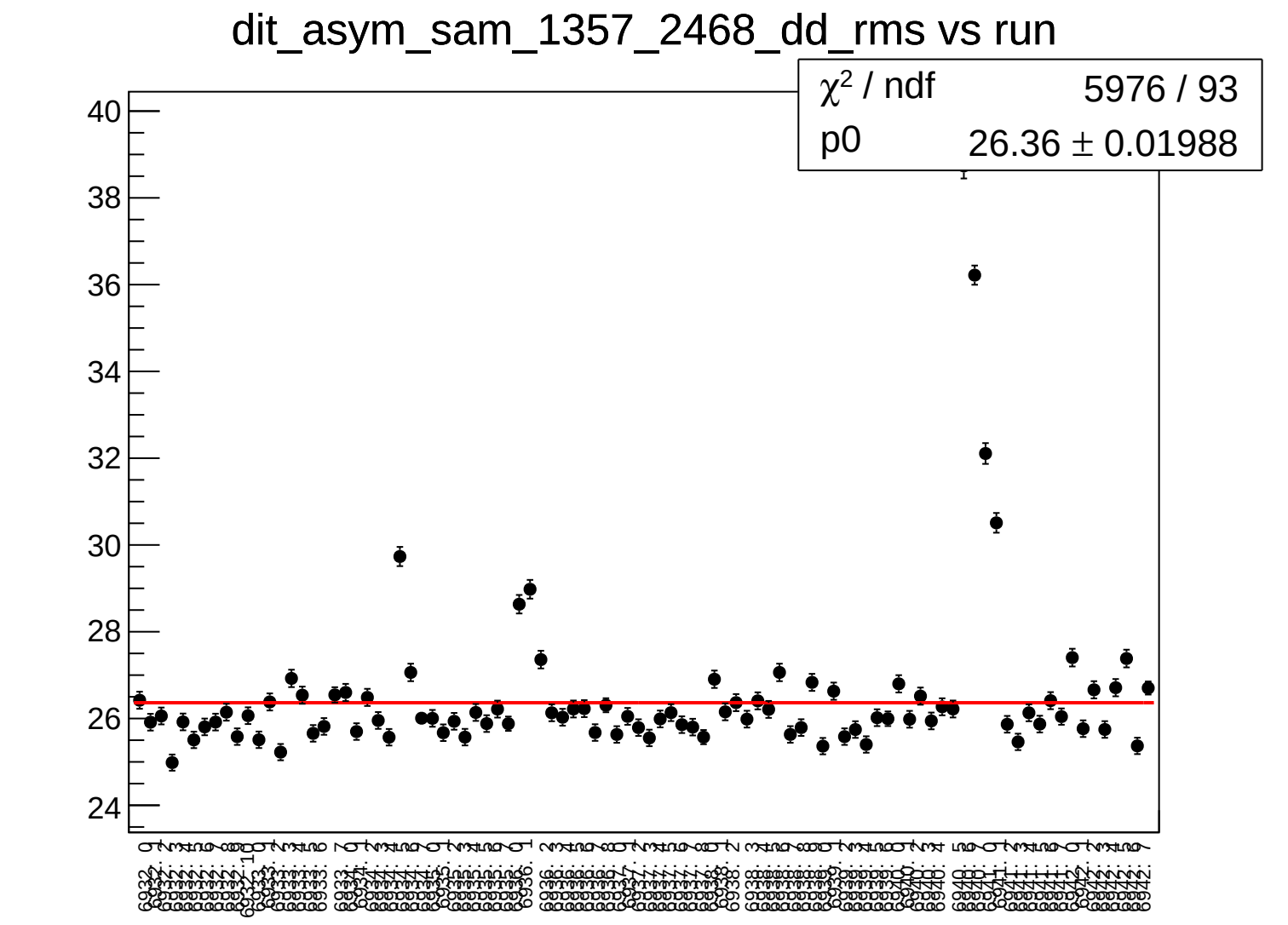

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.33 / 93
p0 −5.919 ± 251.5
pull
Entries 94
Mean 389.8
Std Dev 0

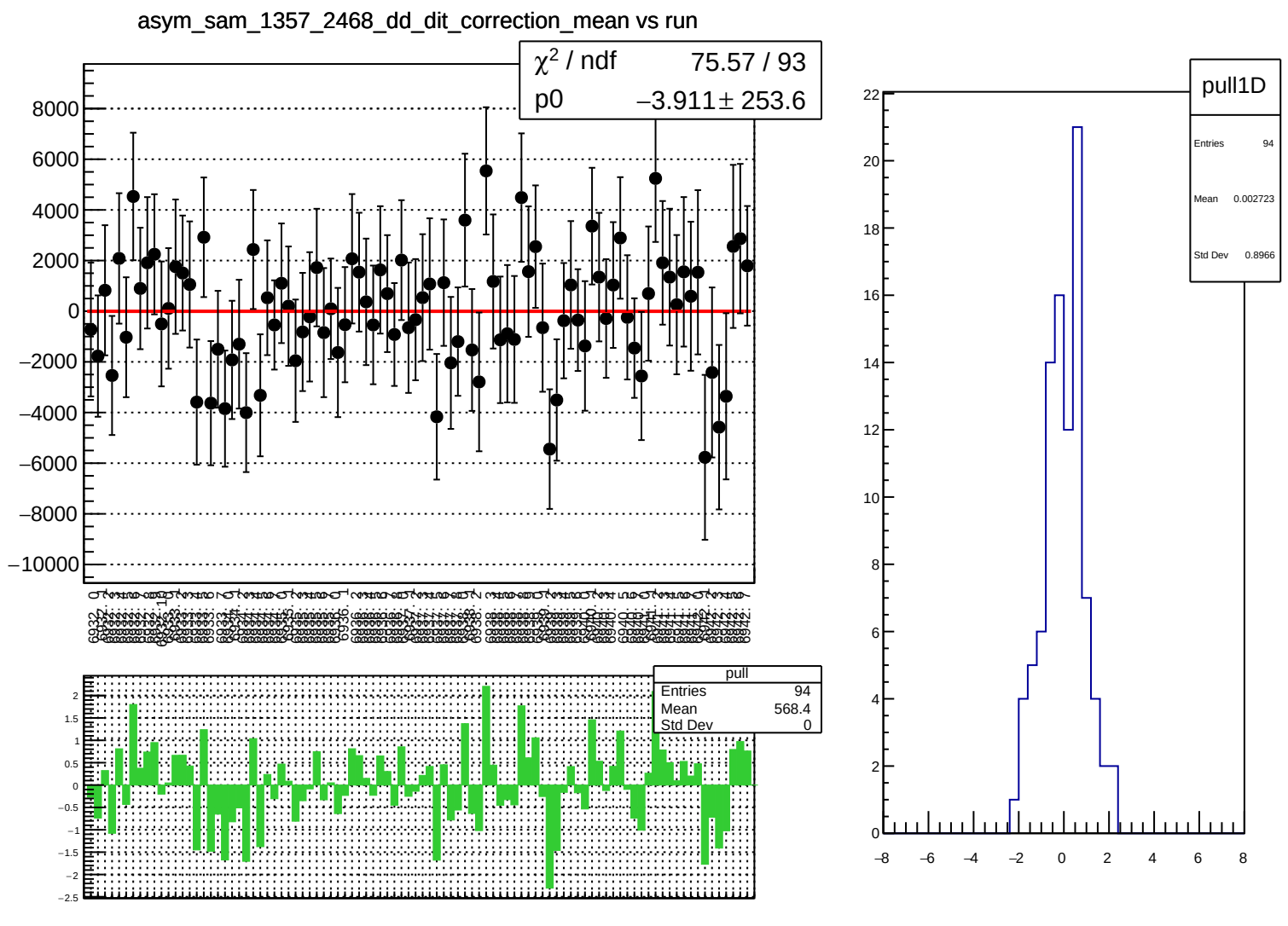

pull1D
Entries 94
Mean 0.004607
Std Dev 0.9011

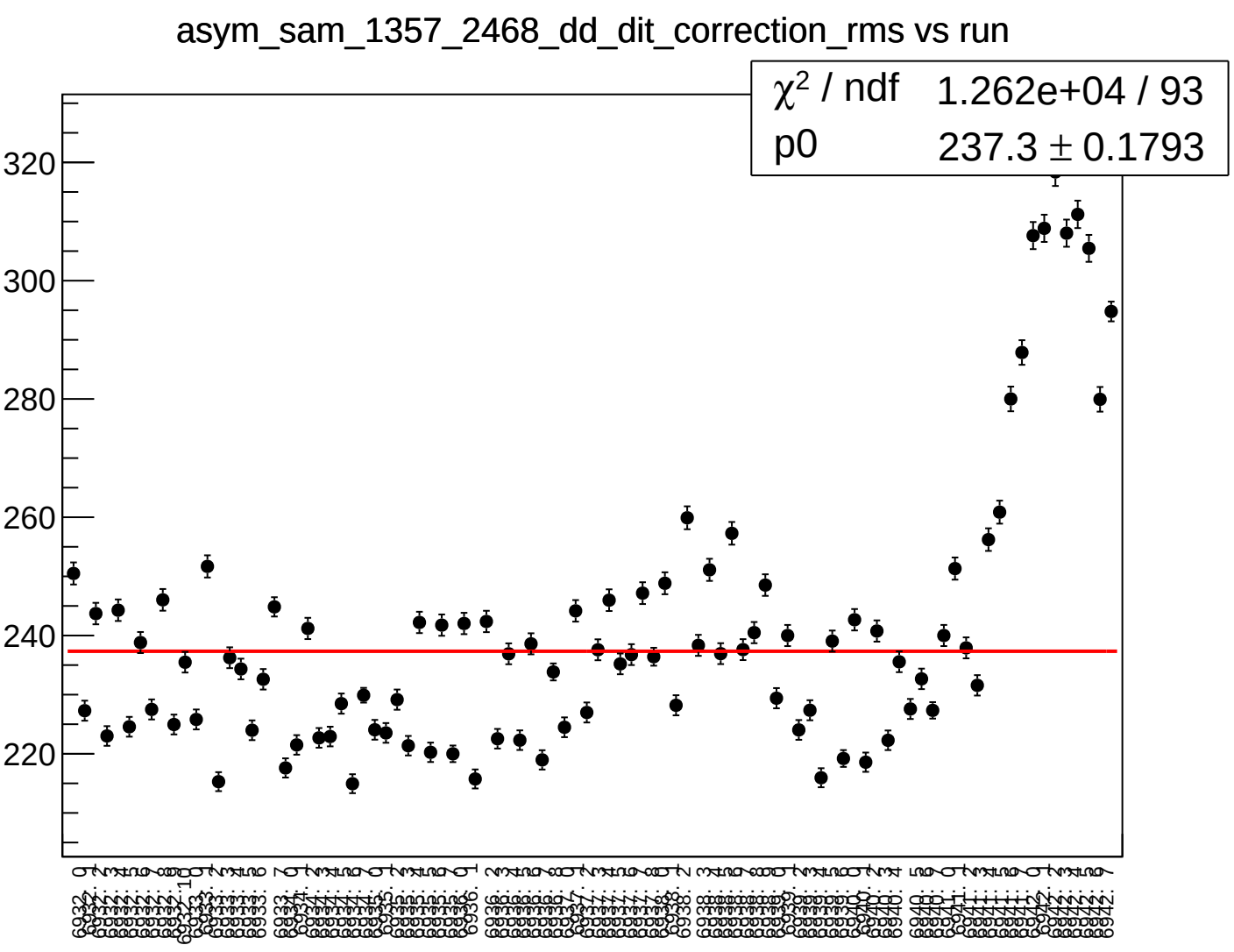

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.451e+04 / 93
p0 235.2 ± 0.1778
320
300
280
260
240
220
200

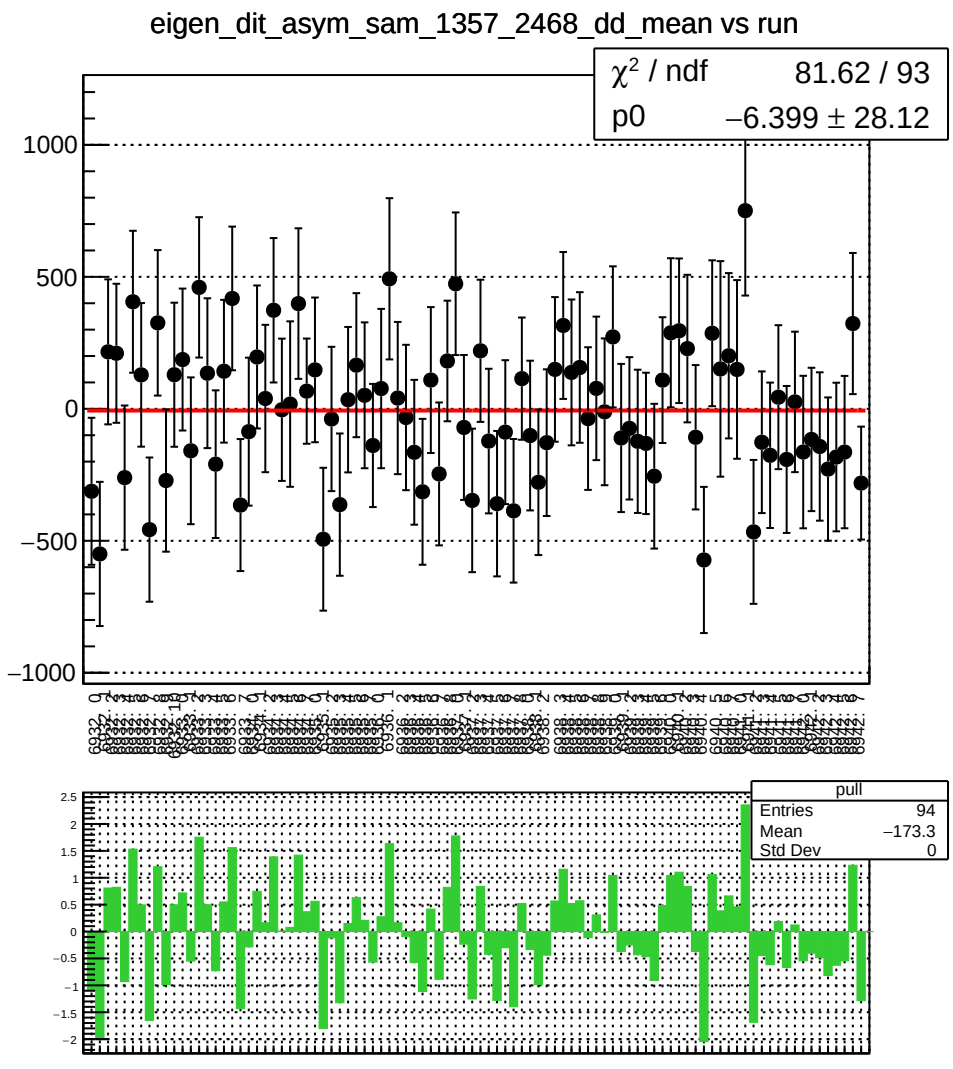

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.62 / 93
p0 −6.399 ± 28.12
1000
500
0
−500
−1000
pull
Entries 94
Mean −173.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

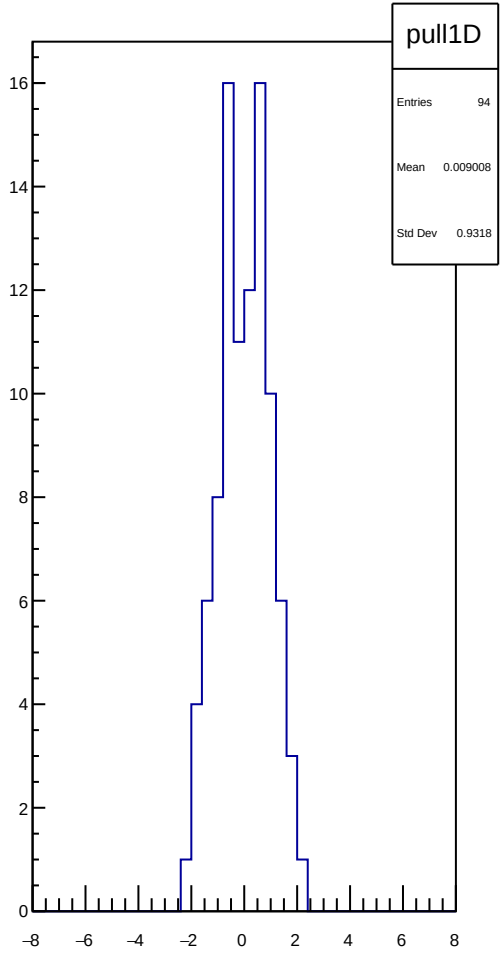

pull1D
Entries 94
Mean 0.009007
Std Dev 0.9318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

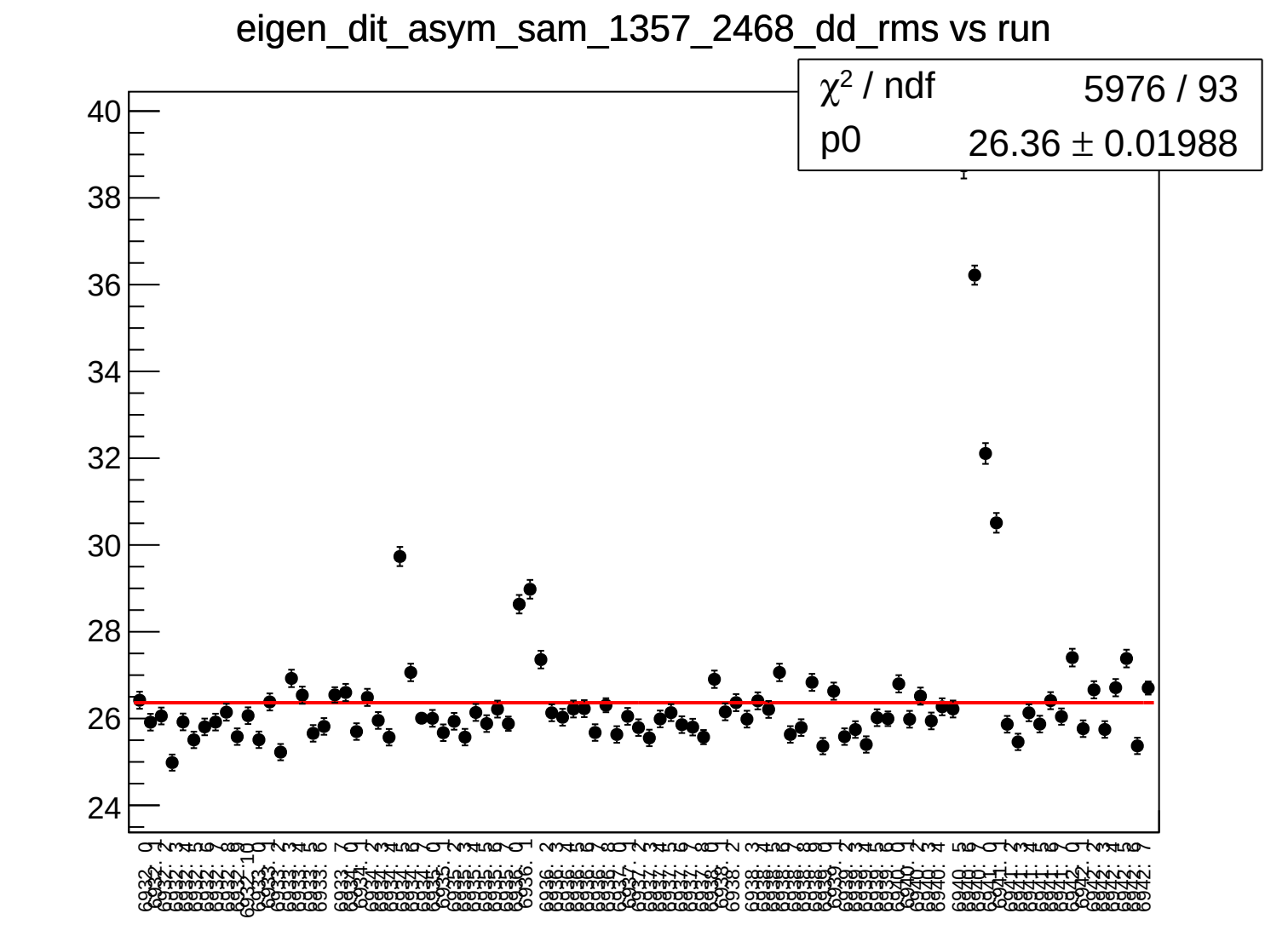

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 5976 / 93
p0 26.36 ± 0.01988
40
38
36
34
32
30
28
26
24

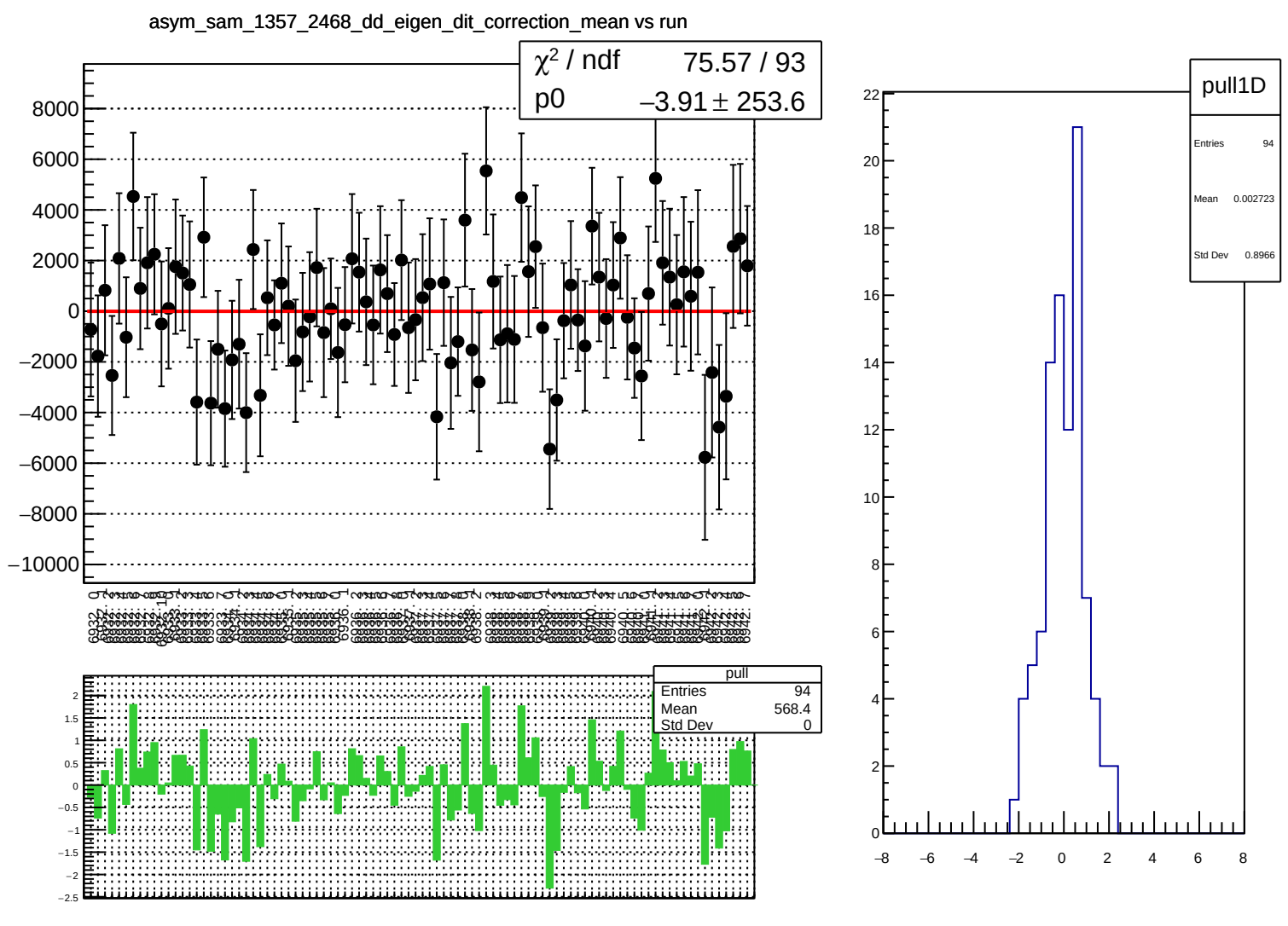

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 75.57 / 93
p0 −3.911± 253.6
pull
Entries 94
Mean 568.4
Std Dev 0
pull1D
Entries 94
Mean 0.002723
Std Dev 0.8966

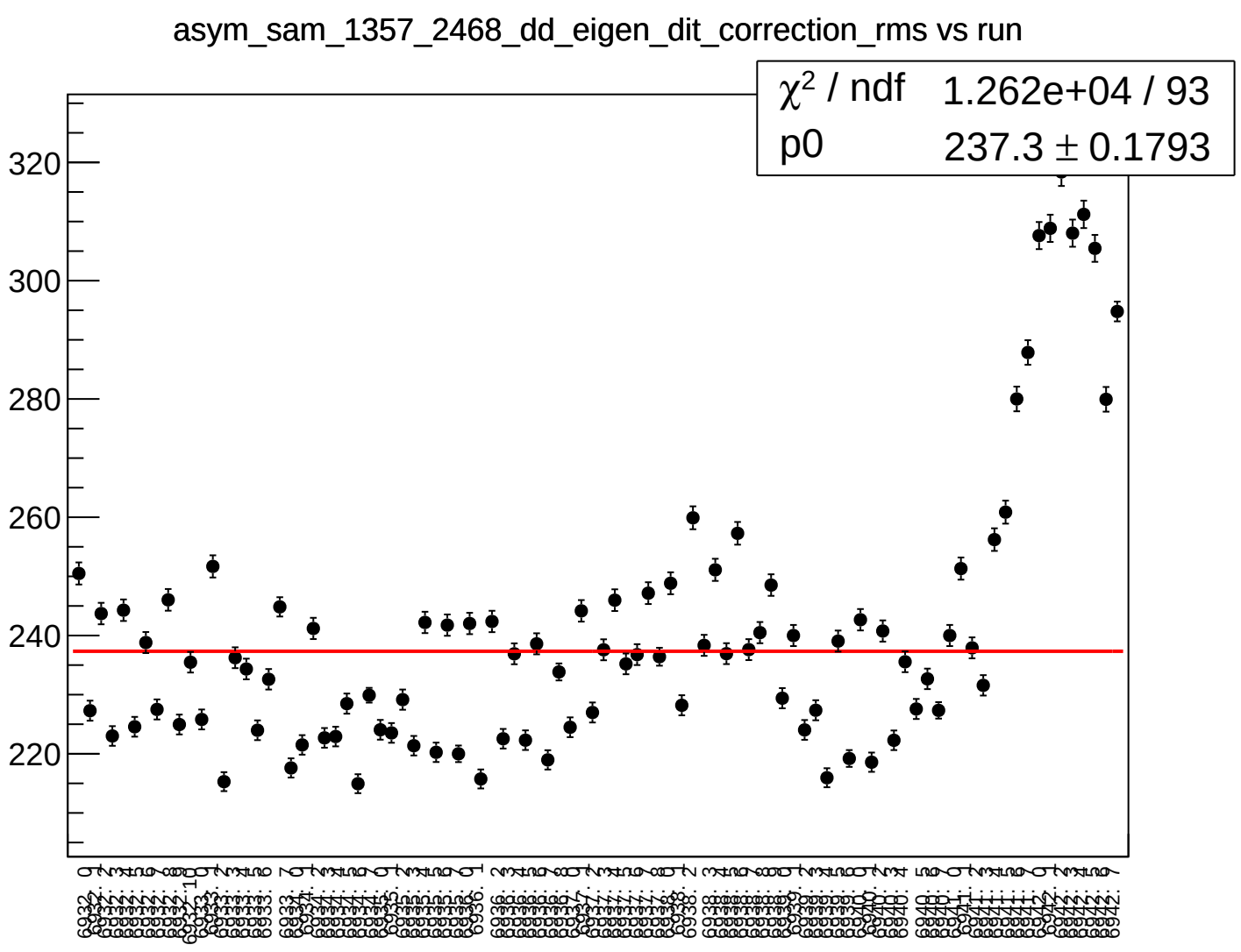

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 1.262e+04 / 93
p0 237.3 ± 0.1793
320
300
280
260
240
220

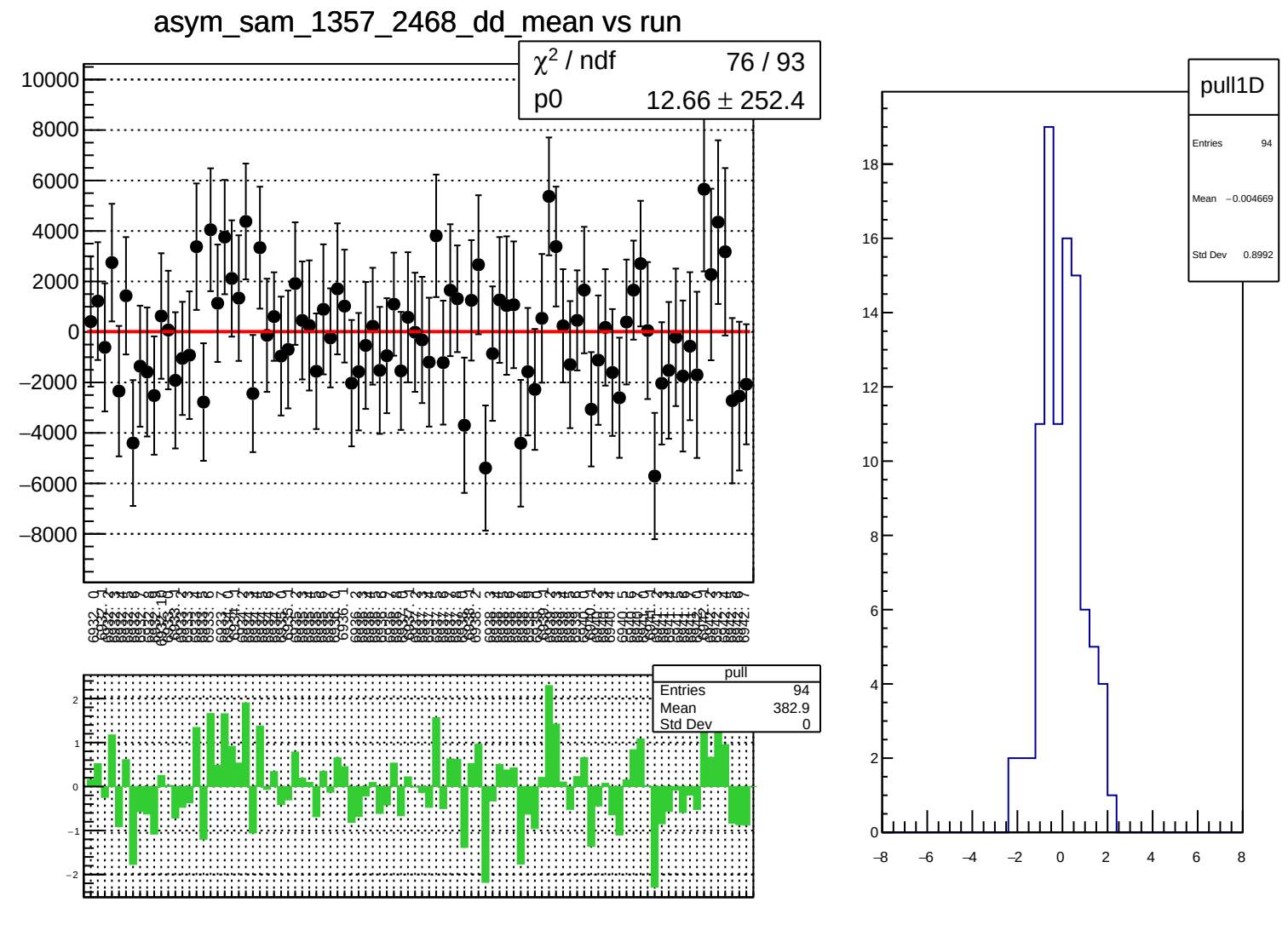

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.62 / 93
p0 −6.399 ± 28.12
1000
500
0
−500
−1000
pull
Entries 94
Mean −173.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

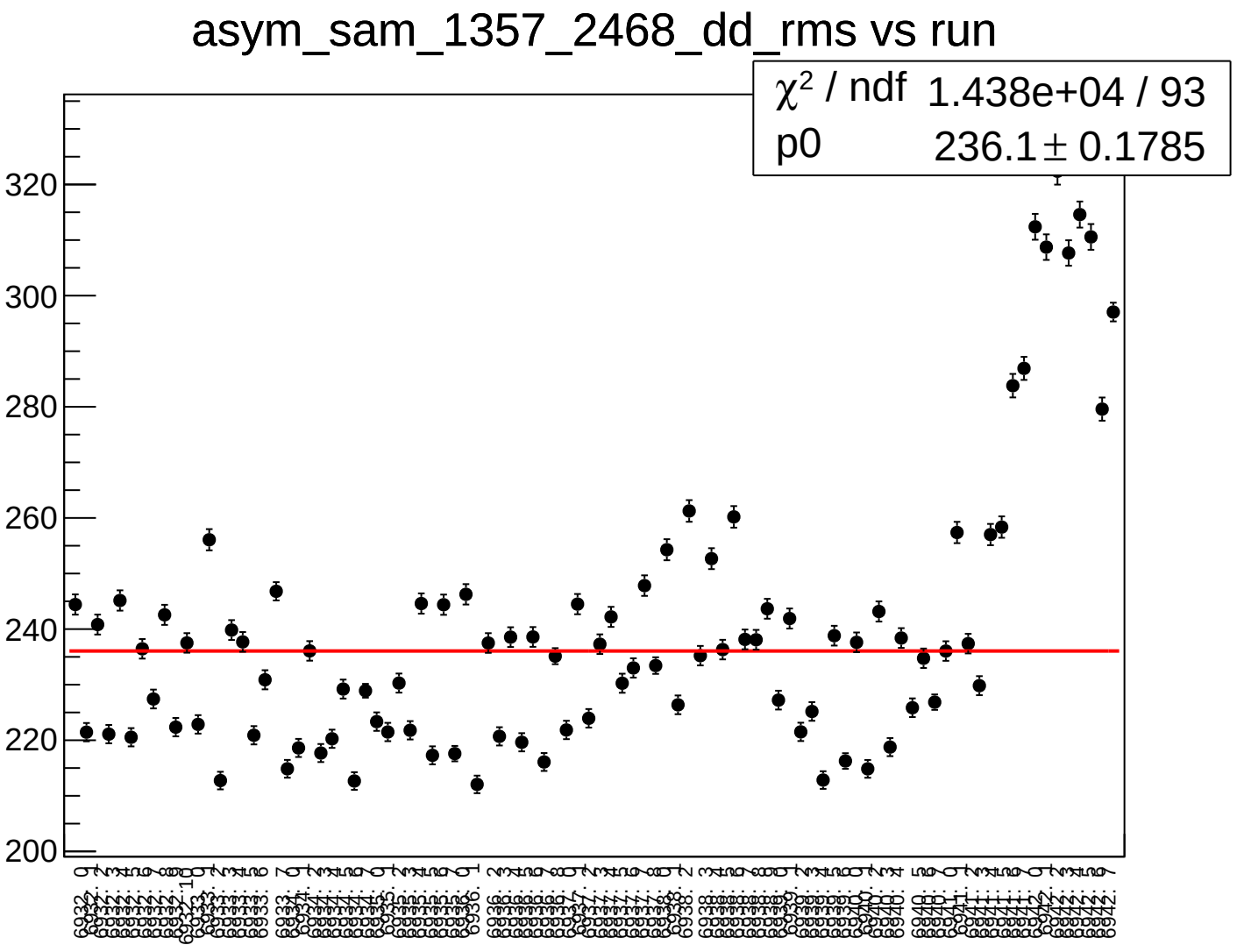

pull1D
Entries 94
Mean 0.009008
Std Dev 0.9318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

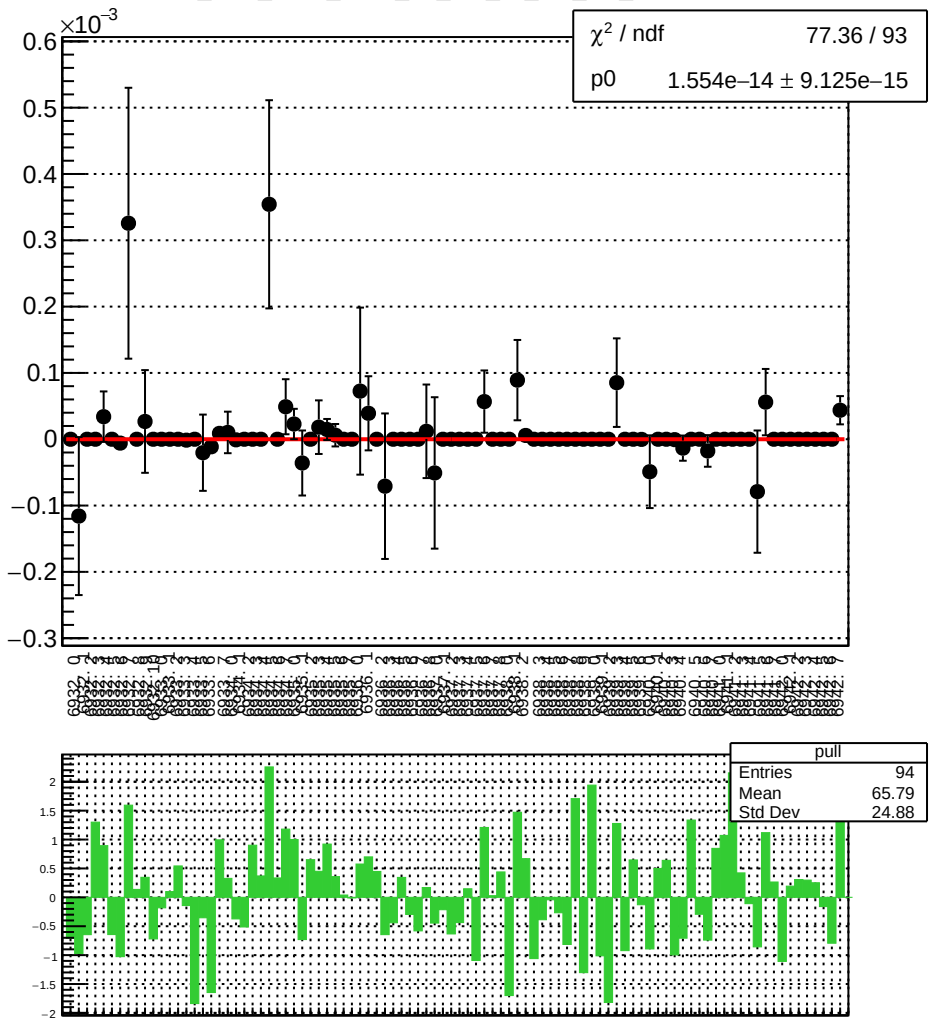

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 5976 / 93
p0 26.36 ± 0.01988
40
38
36
34
32
30
28
26
24

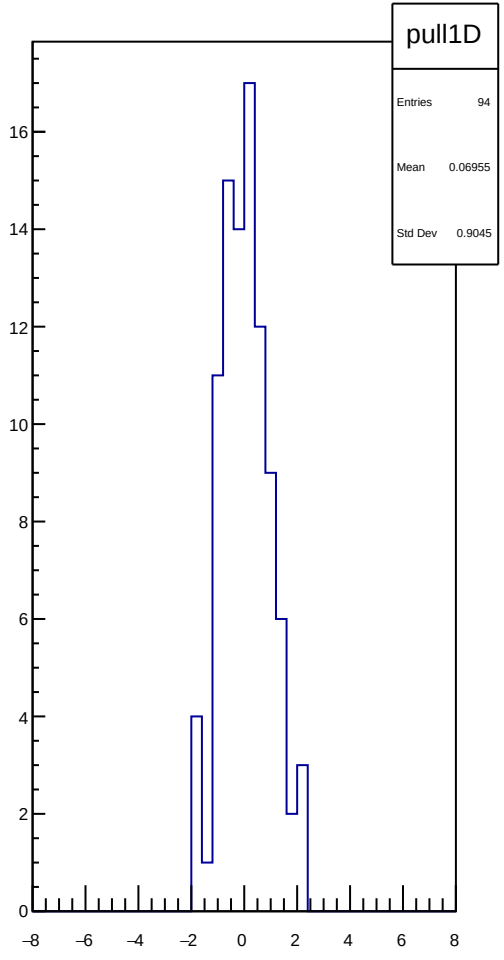

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.57 / 93
p0 −3.91 ± 253.6
pull
Entries 94
Mean 568.4
Std Dev 0
pull1D
Entries 94
Mean 0.002723
Std Dev 0.8966

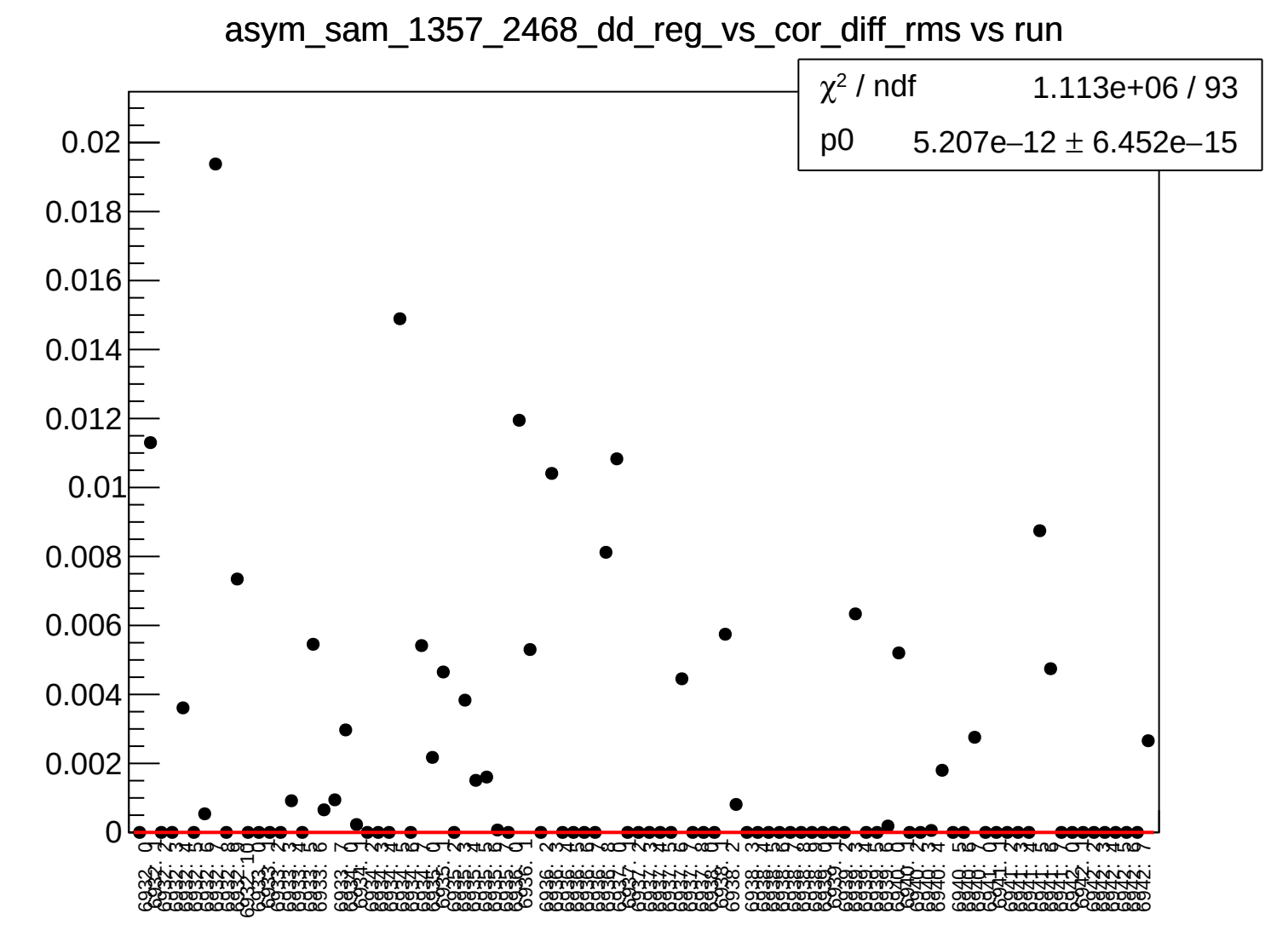

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.262e+04 / 93
p0 237.3 ± 0.1793
320
300
280
260
240
220

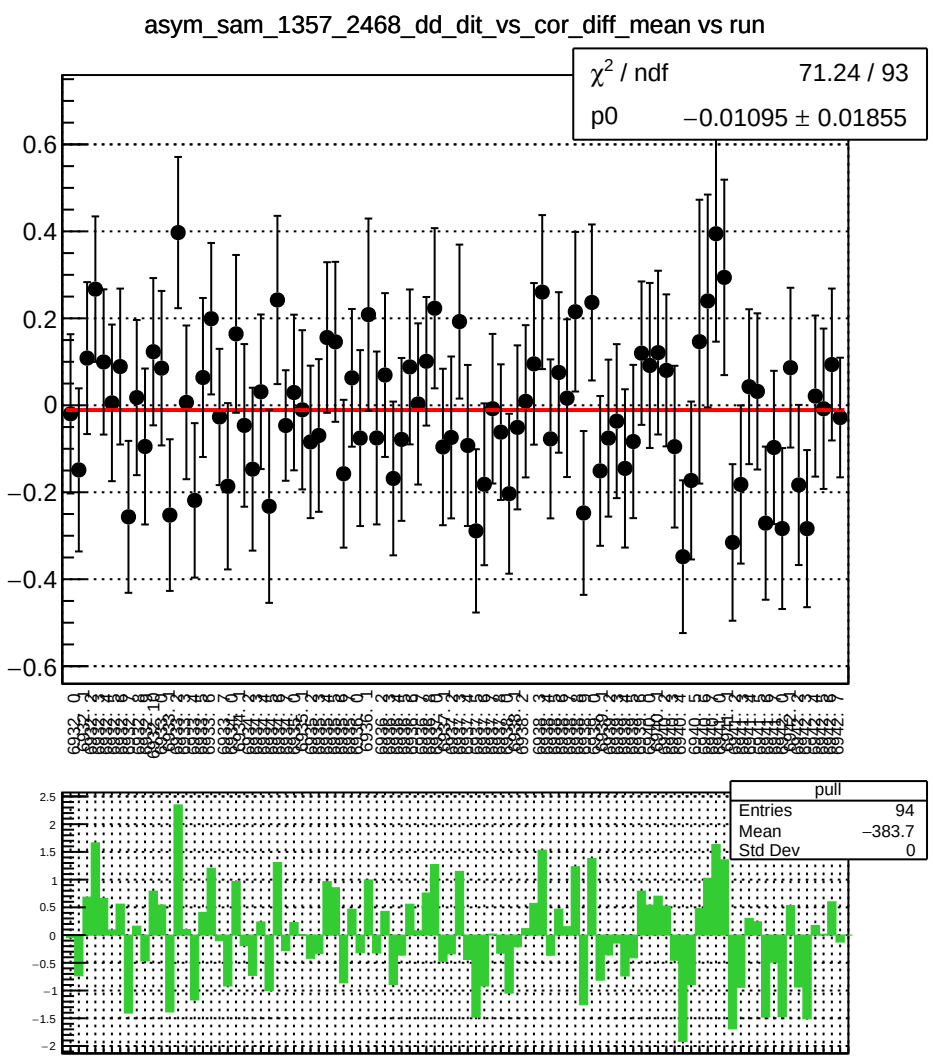

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76 / 93
p0 12.66 ± 252.4
pull
Entries 94
Mean 382.9
Std Dev 0
pull1D
Entries 94
Mean −0.004669
Std Dev 0.8992

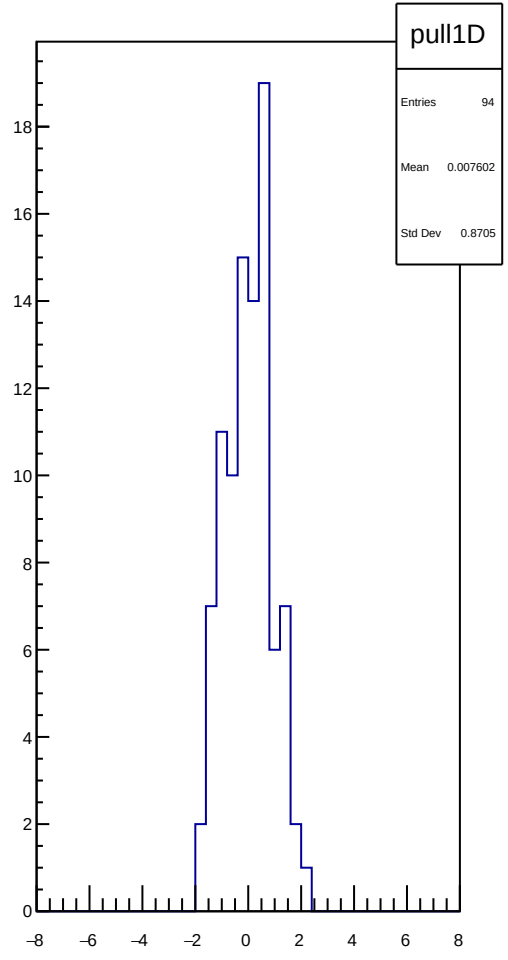

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.438e+04 / 93
p0 236.1 ± 0.1785
320
300
280
260
240
220
200

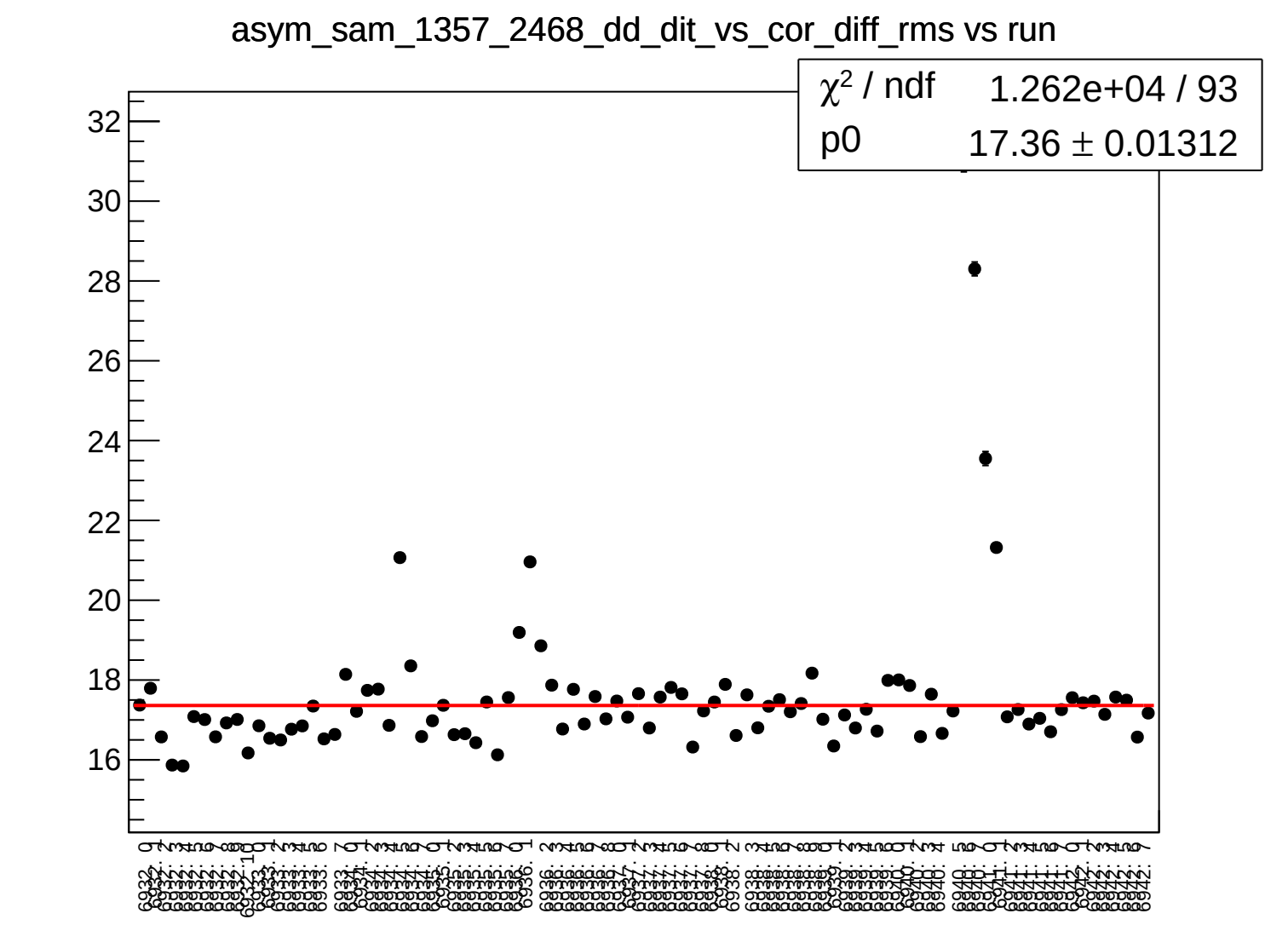

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 77.36 / 93
p0 1.554e−14 ± 9.125e−15
pull
Entries 94
Mean 65.79
Std Dev 24.88

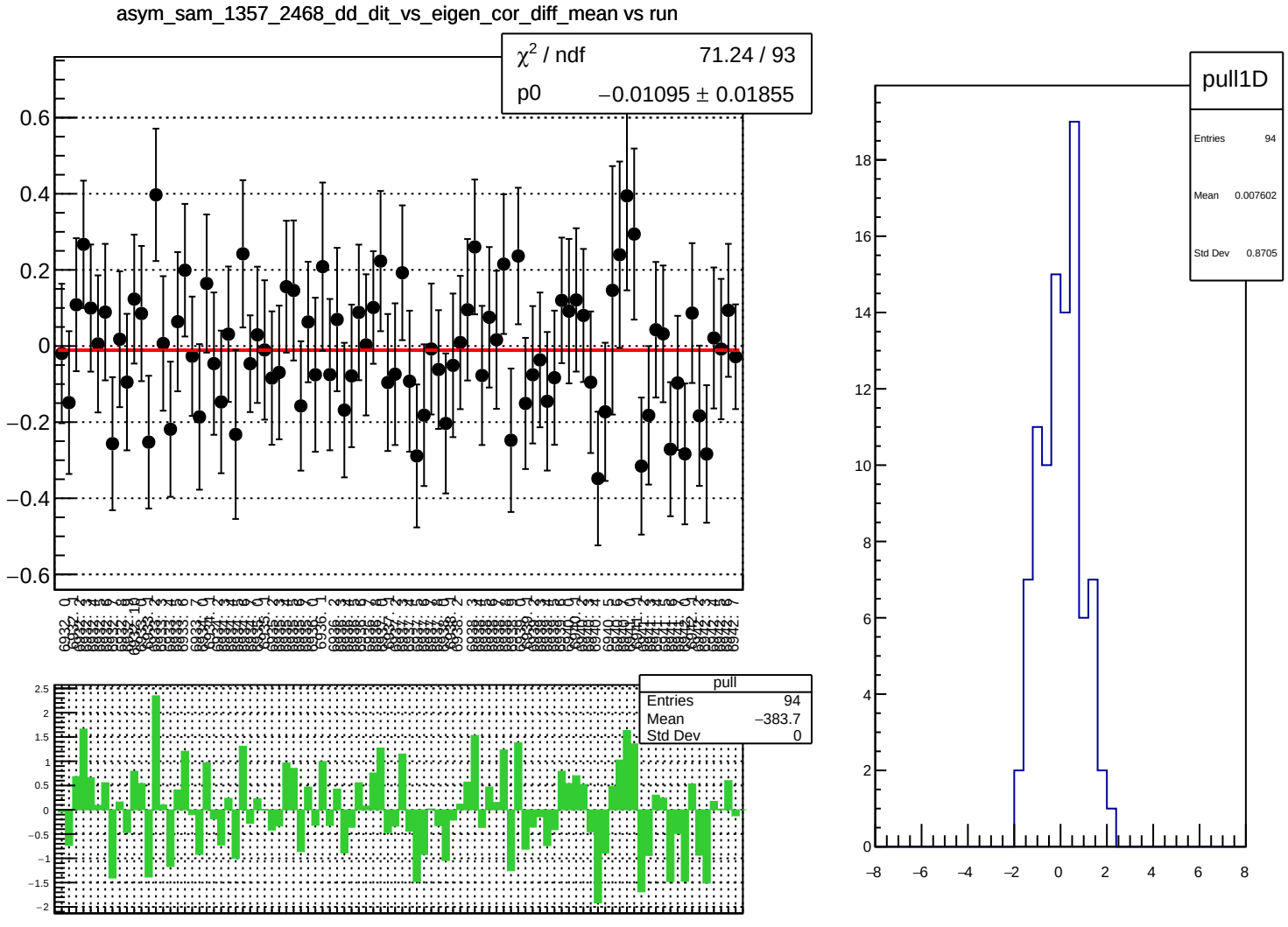

pull1D
Entries 94
Mean 0.06955
Std Dev 0.9045

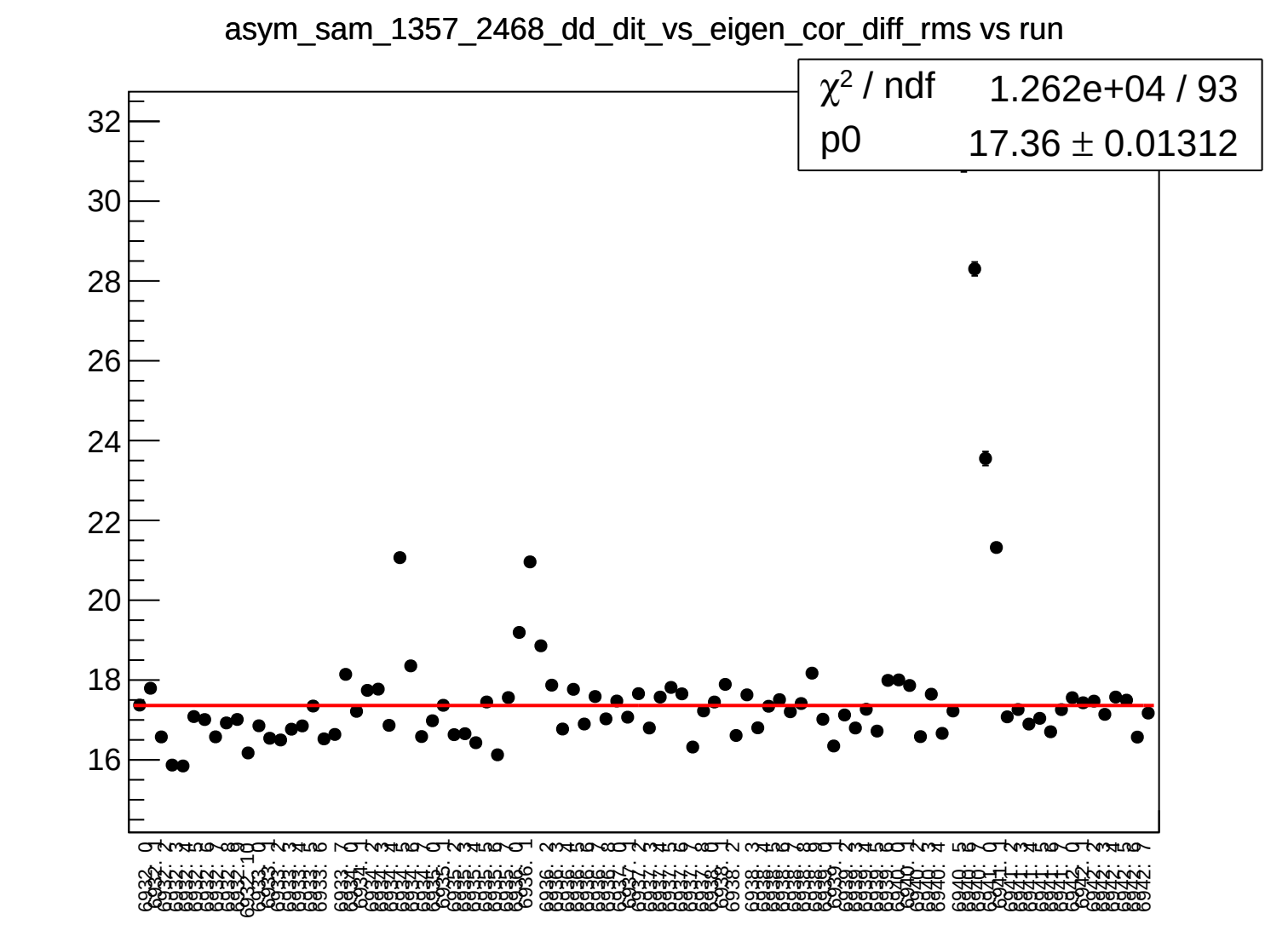

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 93
p0 5.207e−12 ± 6.452e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

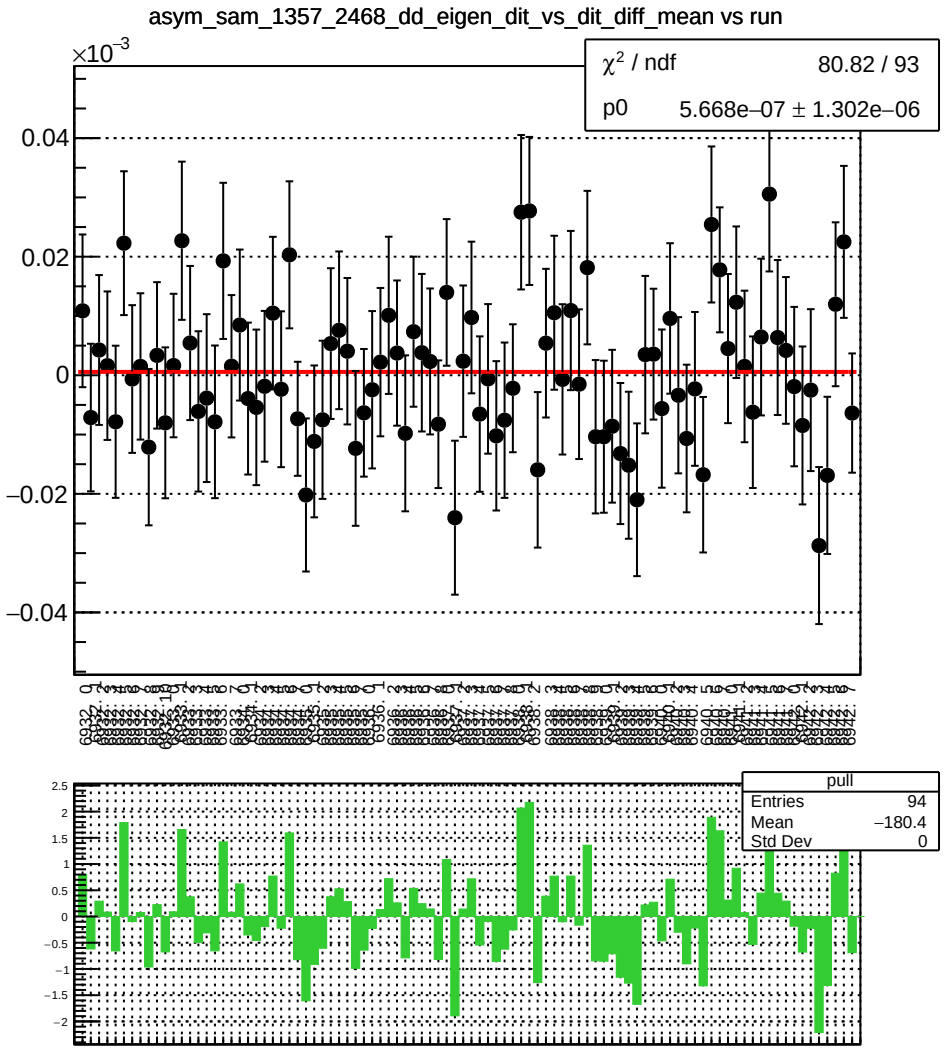

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.24 / 93
p0 −0.01095 ± 0.01855
pull
Entries 94
Mean −383.7
Std Dev 0

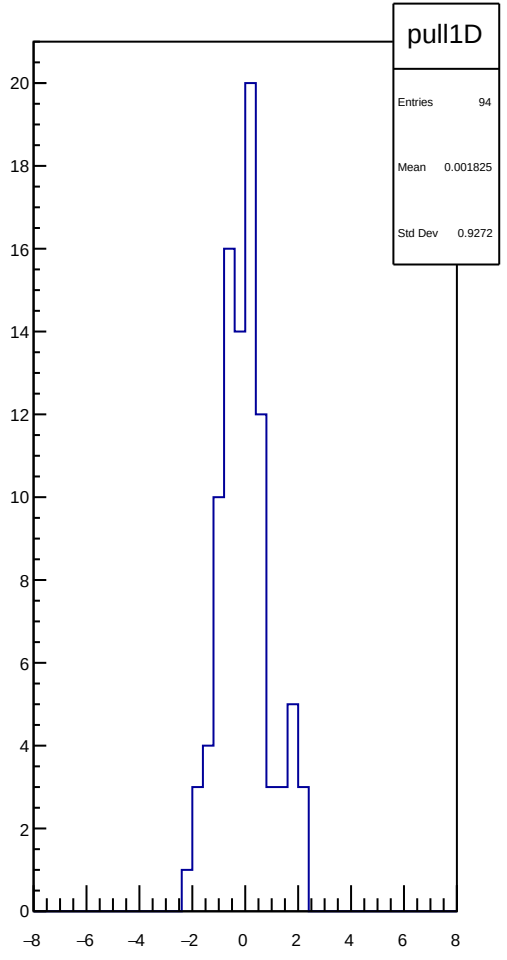

pull1D
Entries 94
Mean 0.007602
Std Dev 0.8705

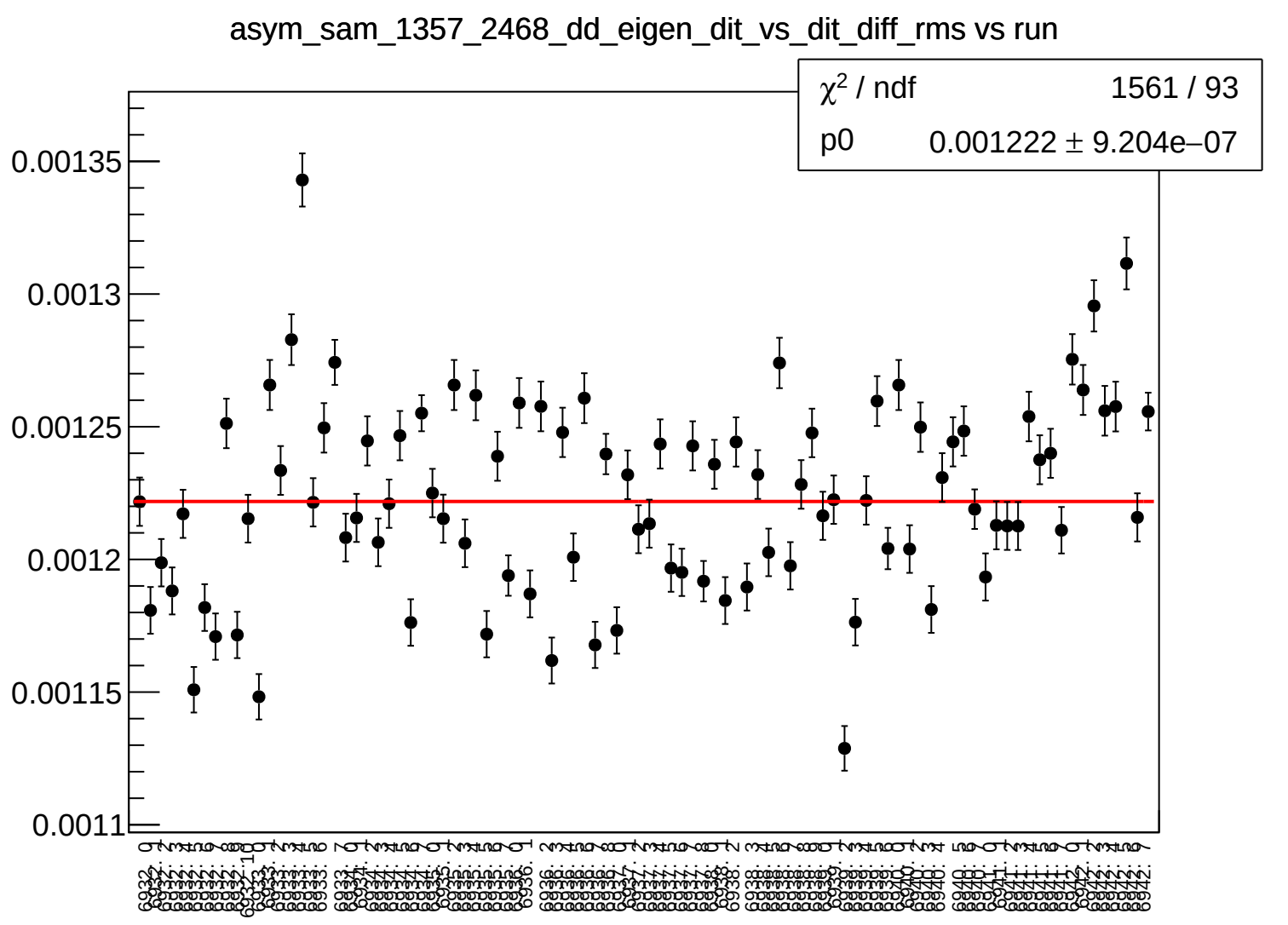

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 17.36 ± 0.01312
32
30
28
26
24
22
20
18
16

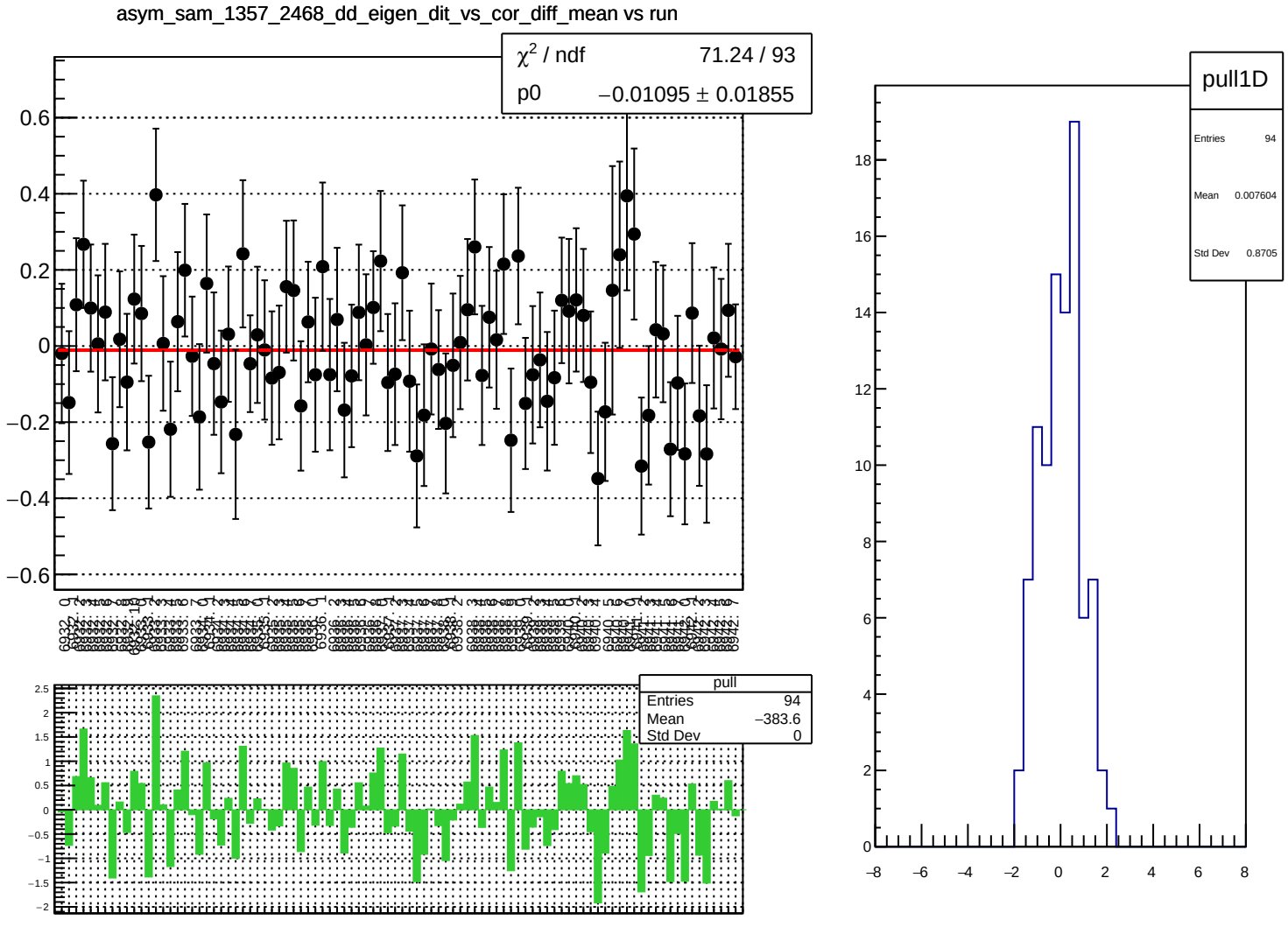

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.24 / 93
p0 −0.01095 ± 0.01855
pull
Entries 94
Mean −383.7
Std Dev 0
pull1D
Entries 94
Mean 0.007602
Std Dev 0.8705

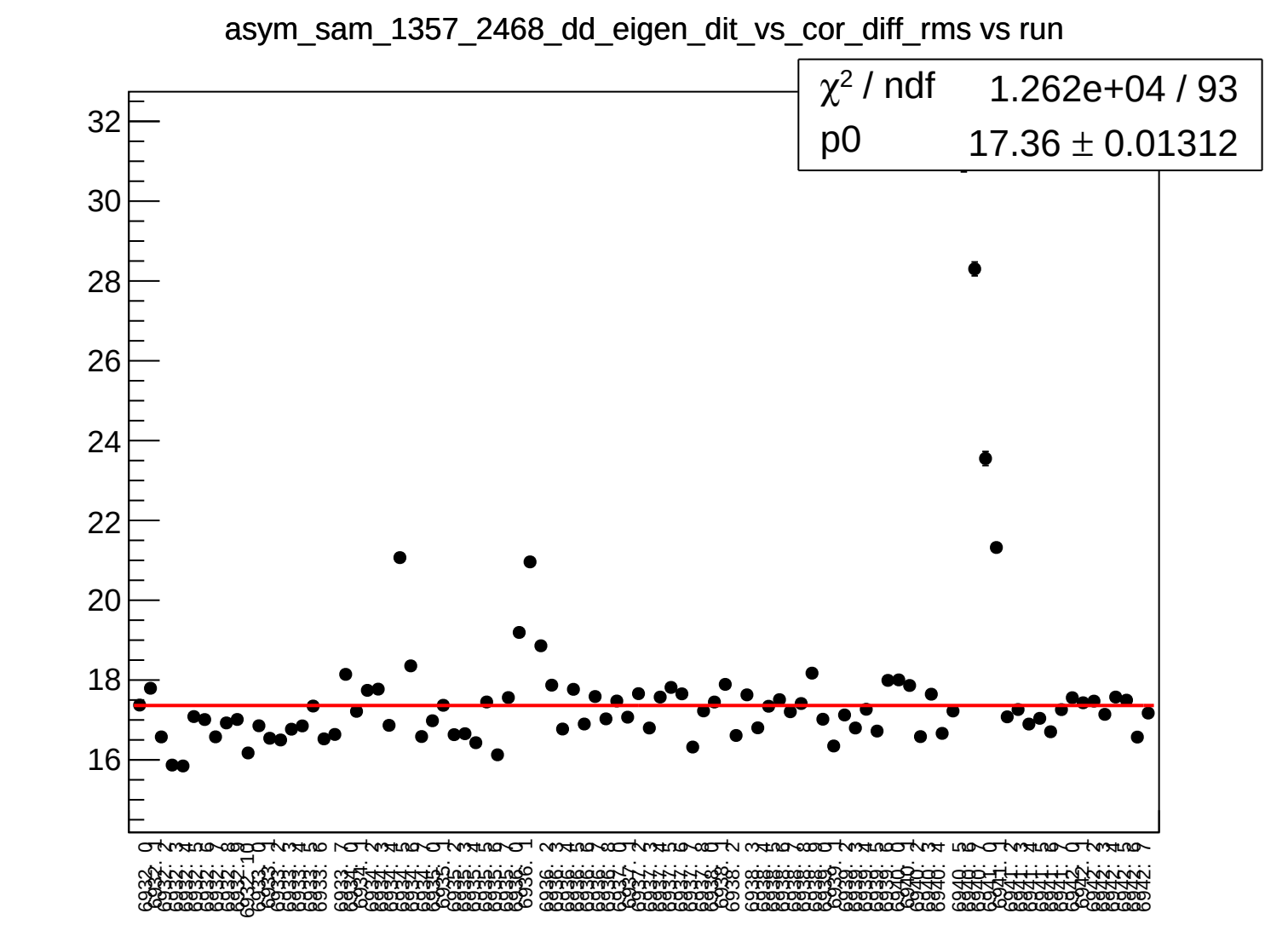

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 17.36 ± 0.01312
32
30
28
26
24
22
20
18
16

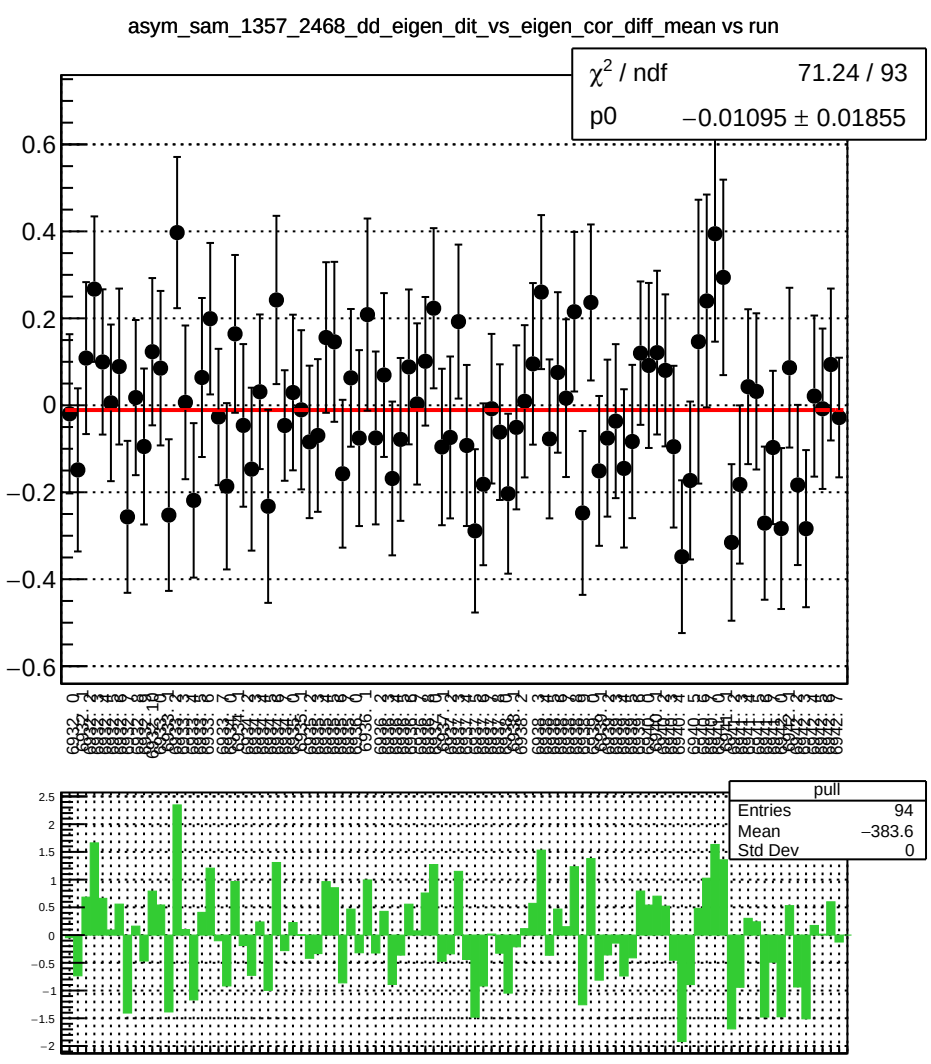

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.82 / 93
p0 5.668e−07 ± 1.302e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −180.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

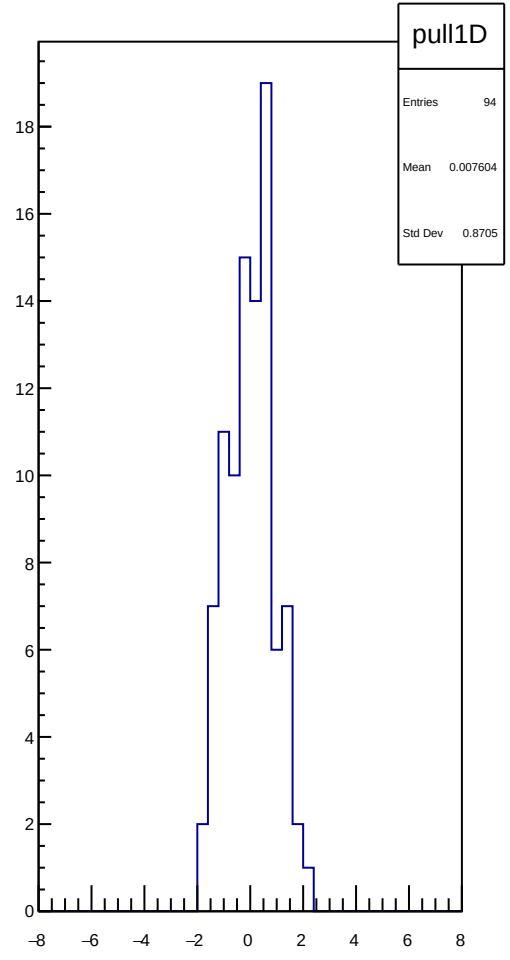

pull1D
Entries 94
Mean 0.001825
Std Dev 0.9272
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

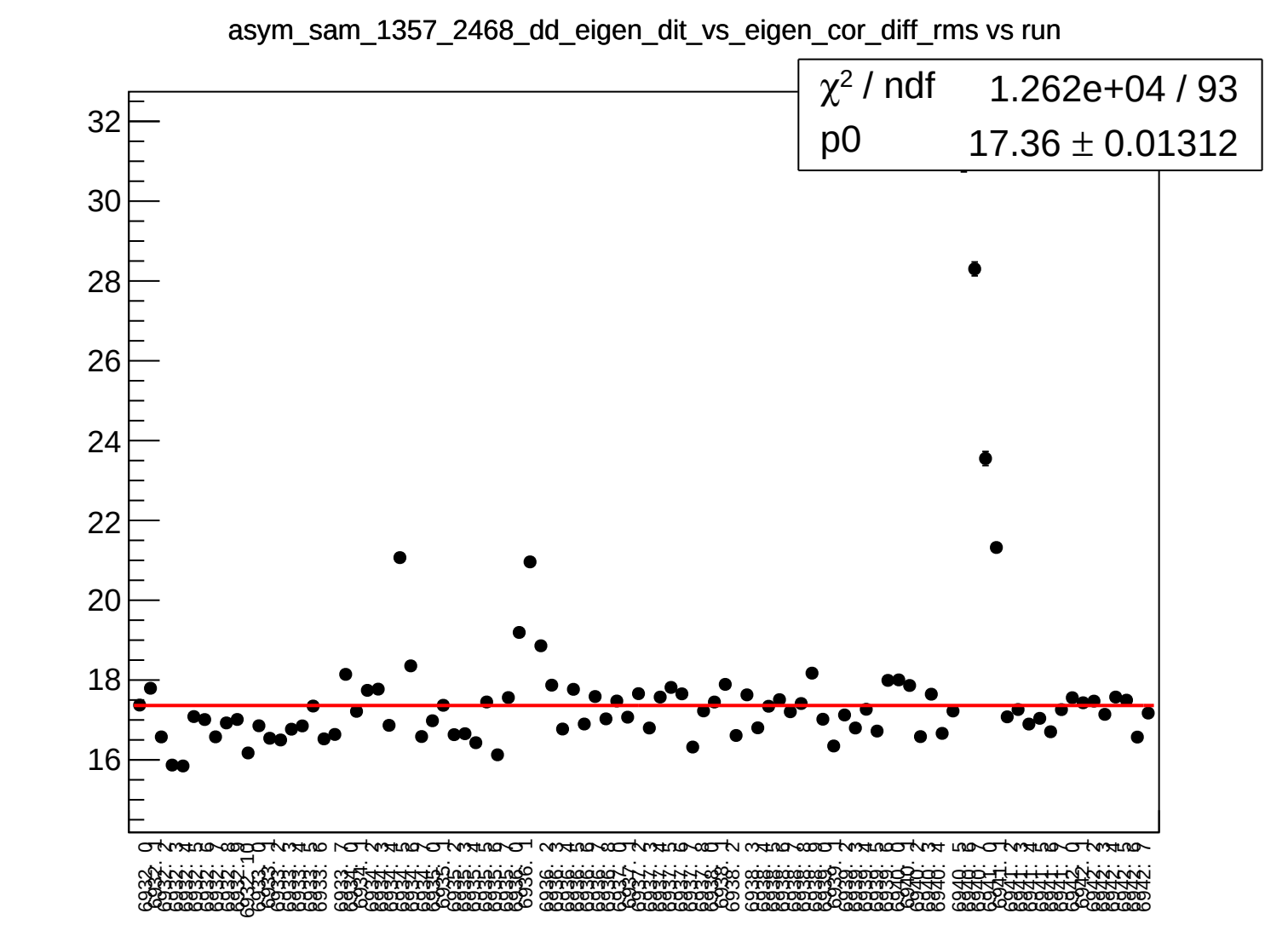

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1561 / 93
p0 0.001222 ± 9.204e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

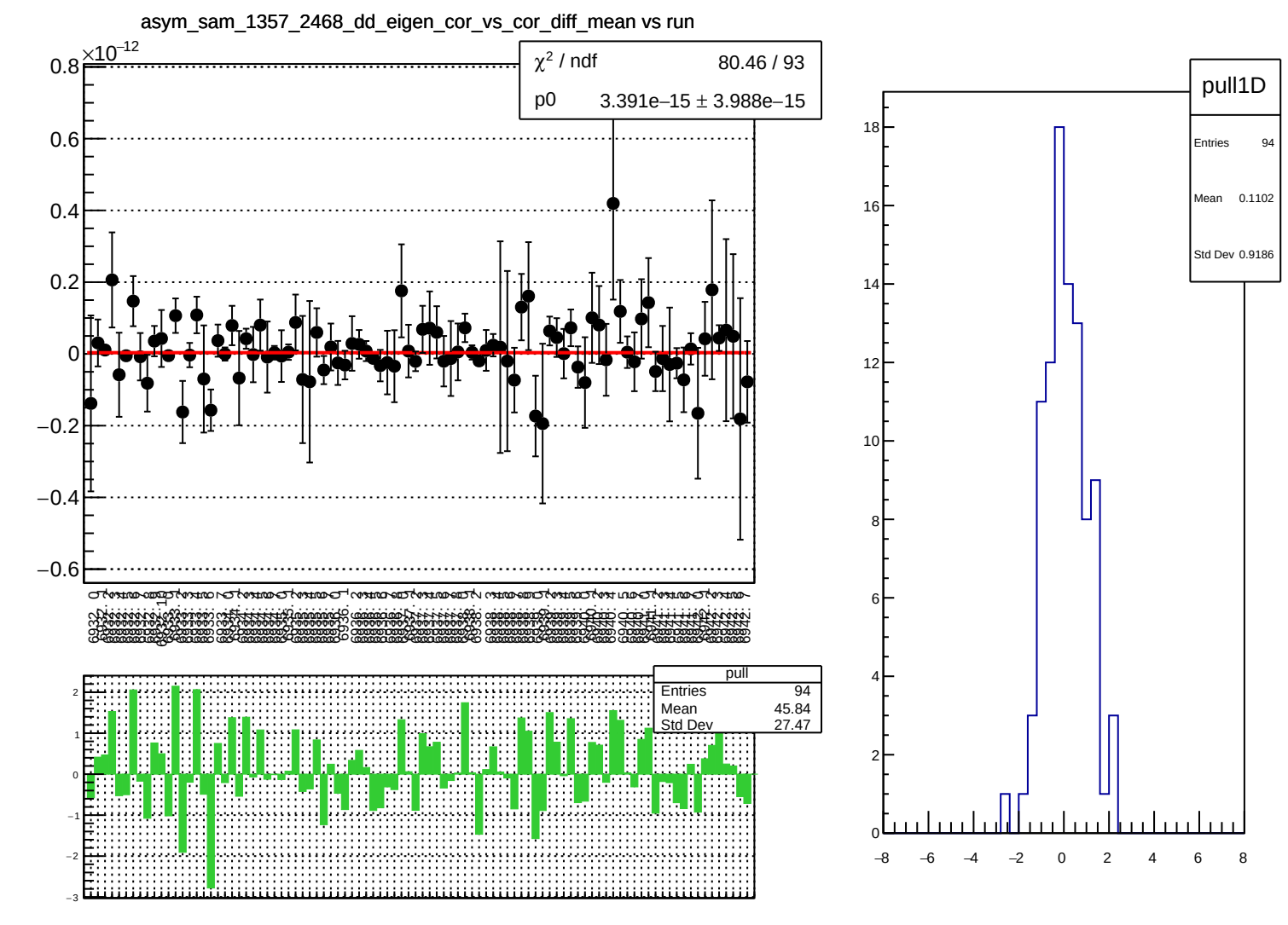

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.24 / 93
p0 −0.01095 ± 0.01855
pull
Entries 94
Mean −383.6
Std Dev 0
pull1D
Entries 94
Mean 0.007604
Std Dev 0.8705

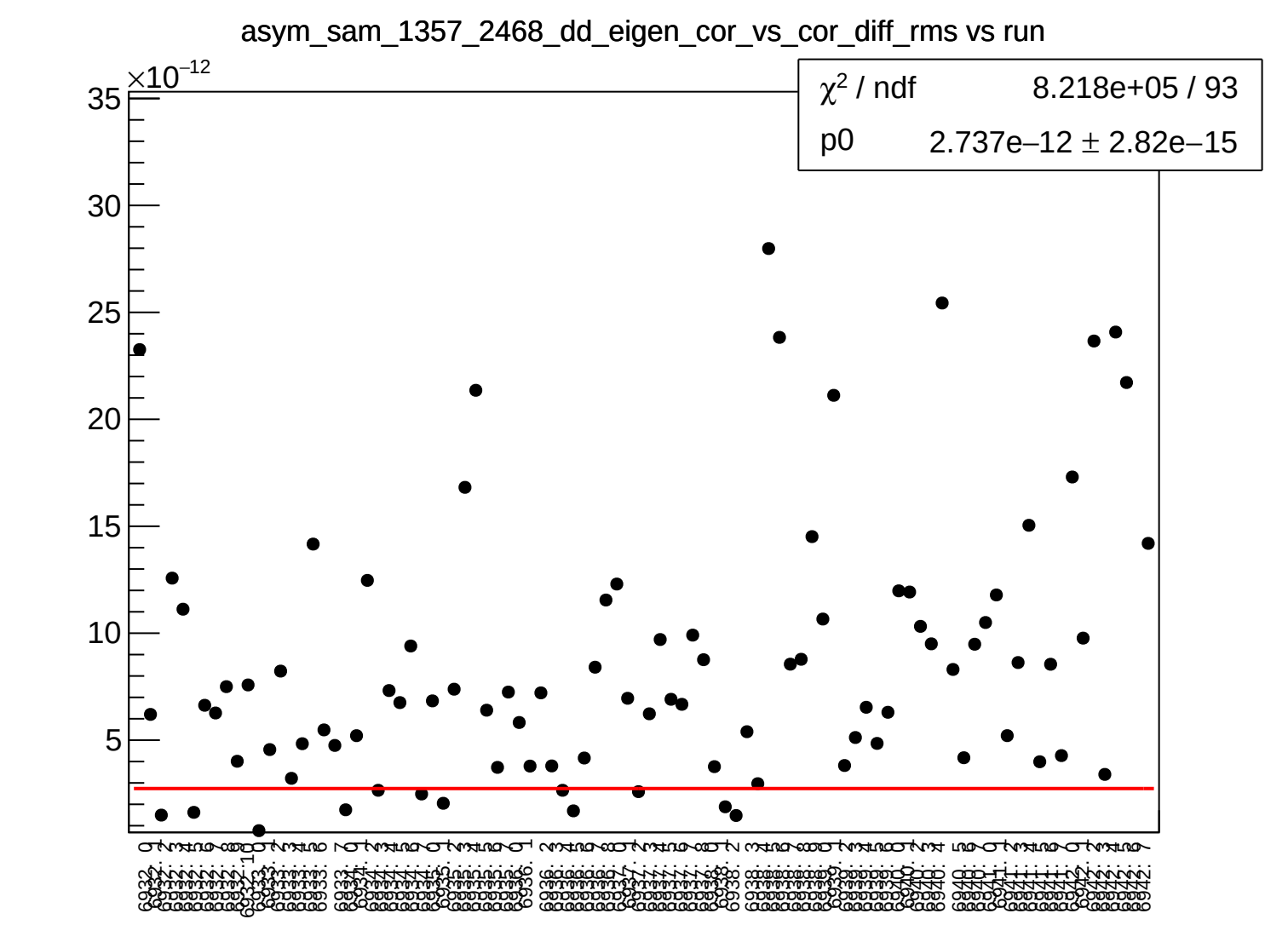

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 17.36 ± 0.01312
32
30
28
26
24
22
20
18
16

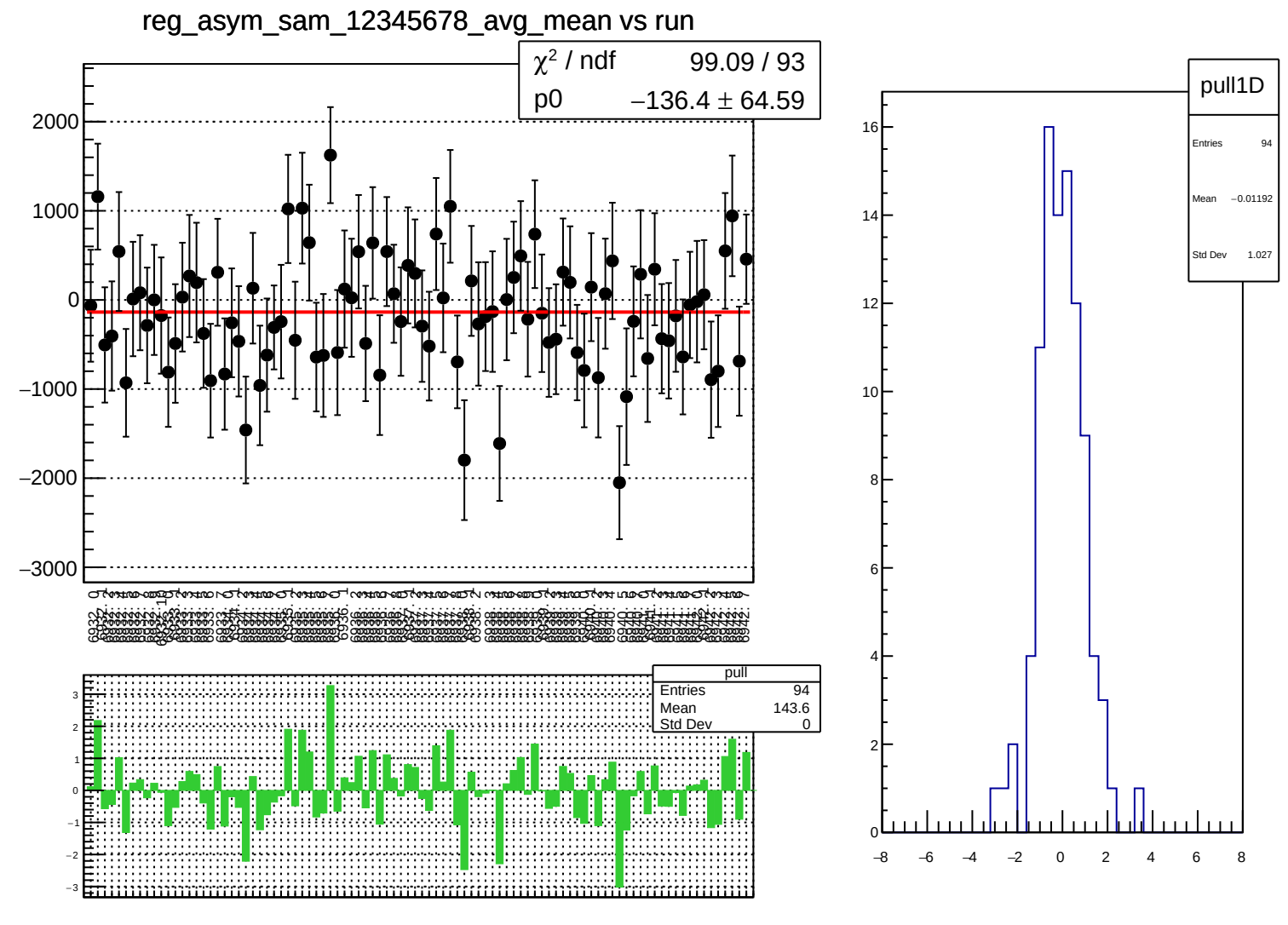

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.24 / 93
p0 −0.01095 ± 0.01855
pull
Entries 94
Mean −383.6
Std Dev 0

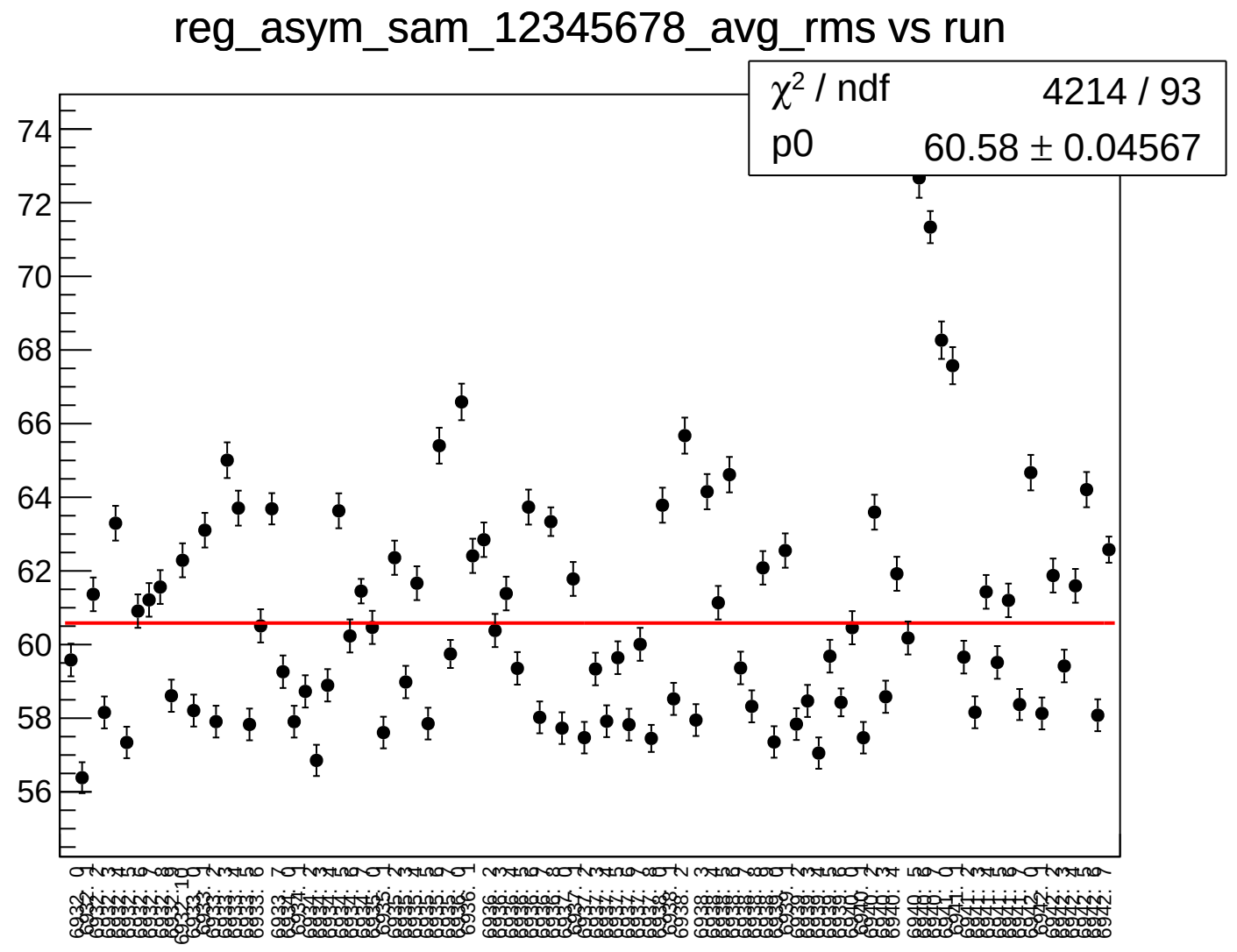

pull1D
Entries 94
Mean 0.007604
Std Dev 0.8705

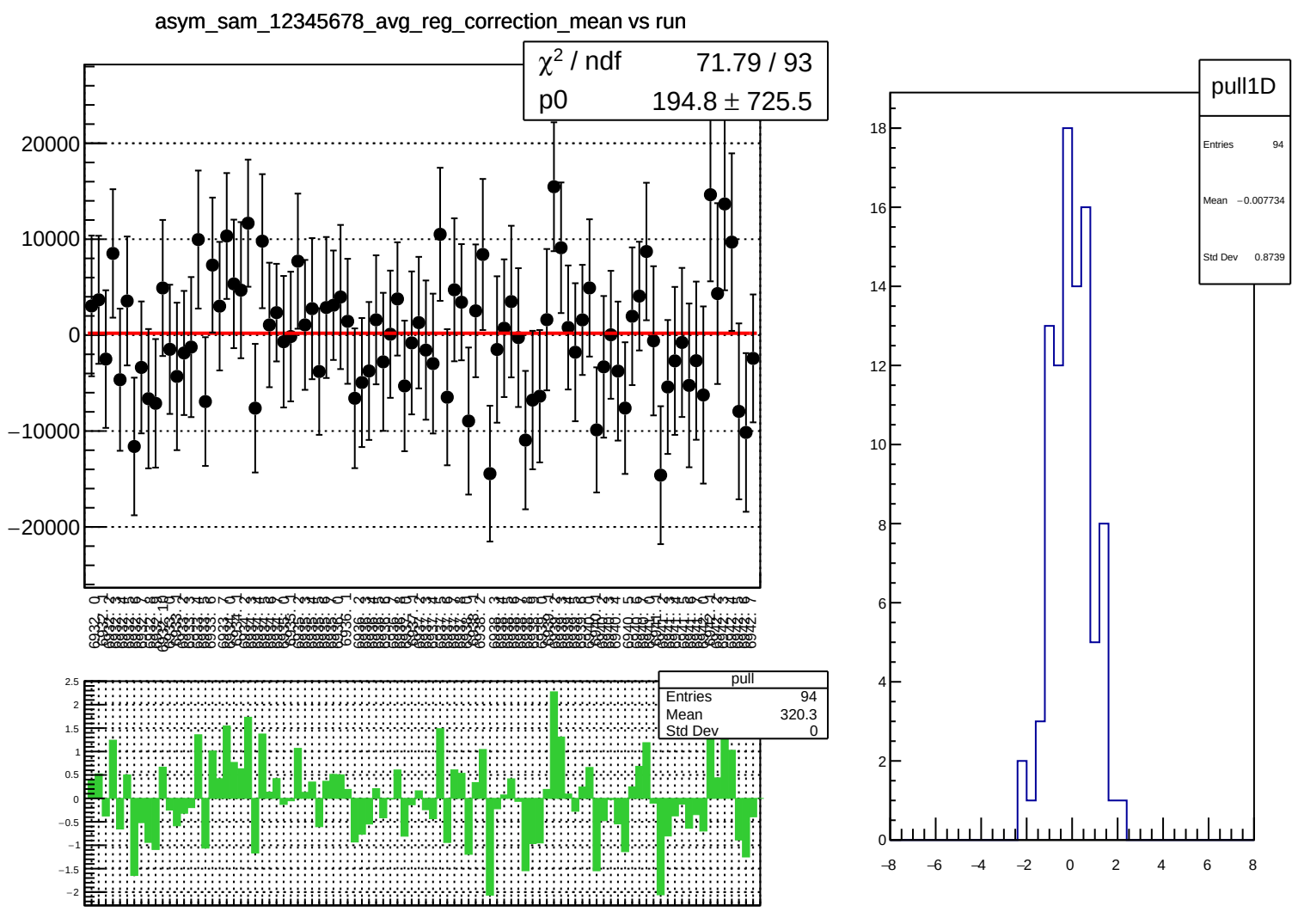

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.262e+04 / 93
p0 17.36 ± 0.01312
32
30
28
26
24
22
20
18
16

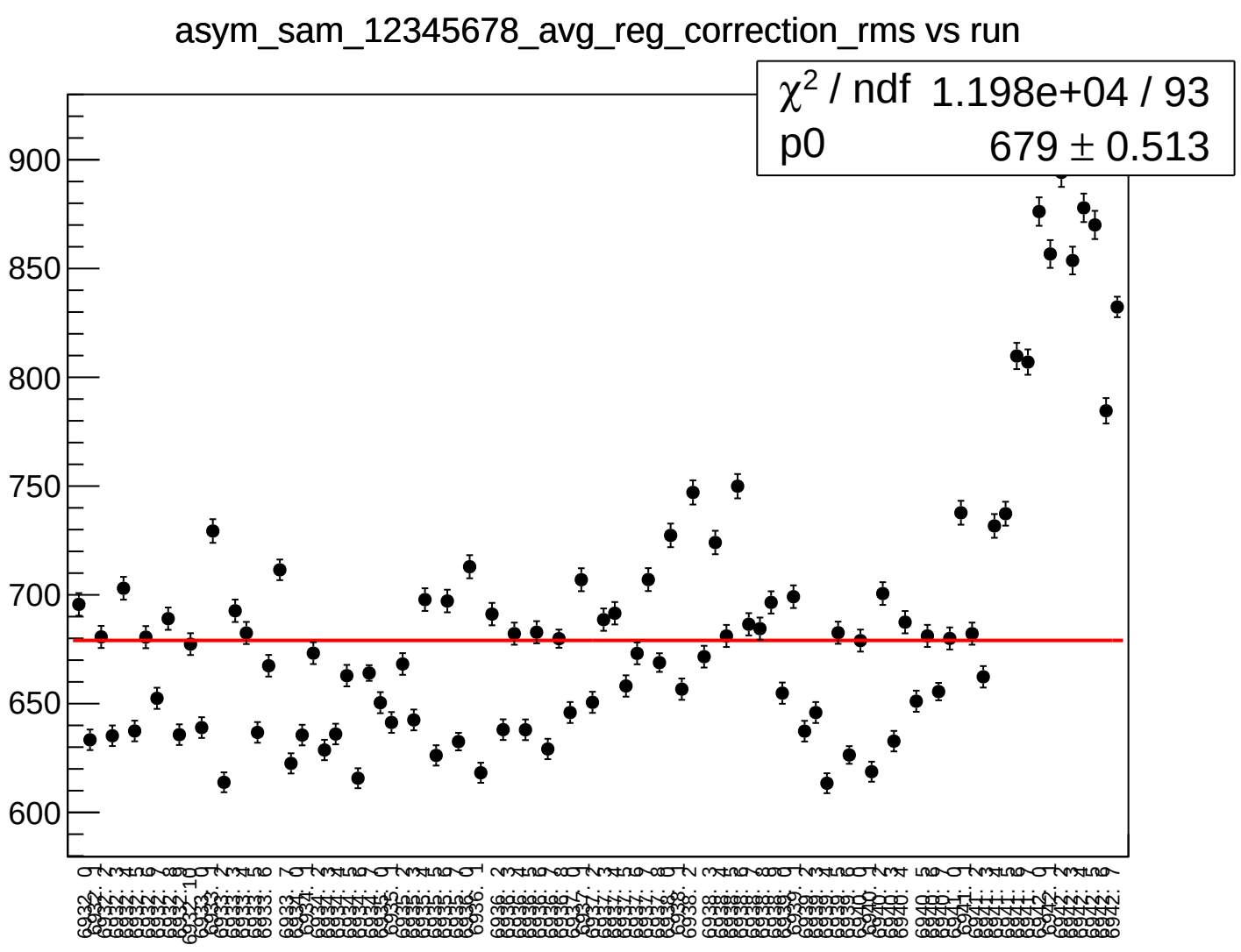

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.46 / 93
p0 3.391e−15 ± 3.988e−15
pull
Entries 94
Mean 45.84
Std Dev 27.47
pull1D
Entries 94
Mean 0.1102
Std Dev 0.9186

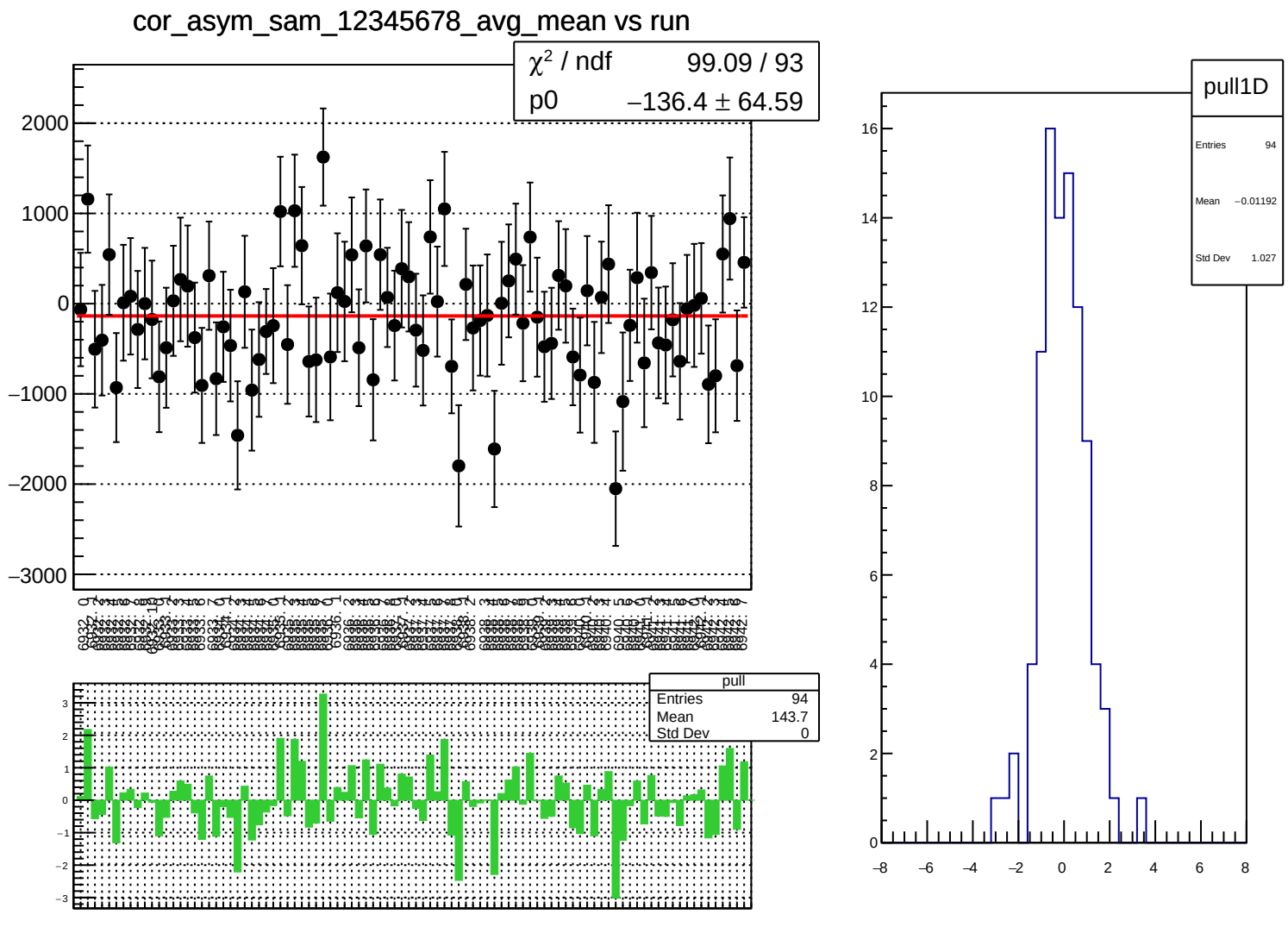

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
35
30
25
20
15
10
5
χ² / ndf 8.218e+05 / 93
p0 2.737e−12 ± 2.82e−15

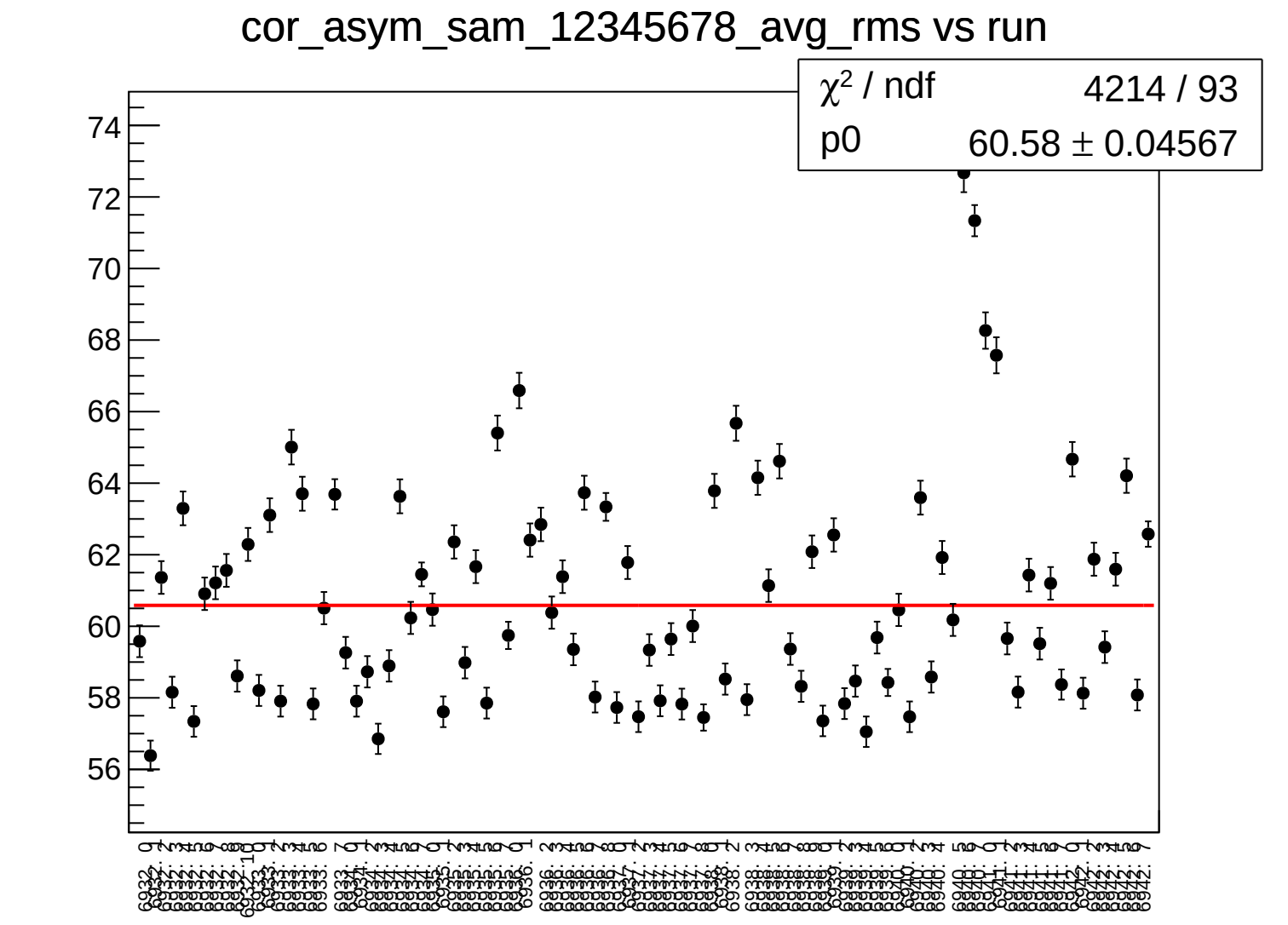

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.09 / 93
p0 −136.4 ± 64.59
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 143.6
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01192
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

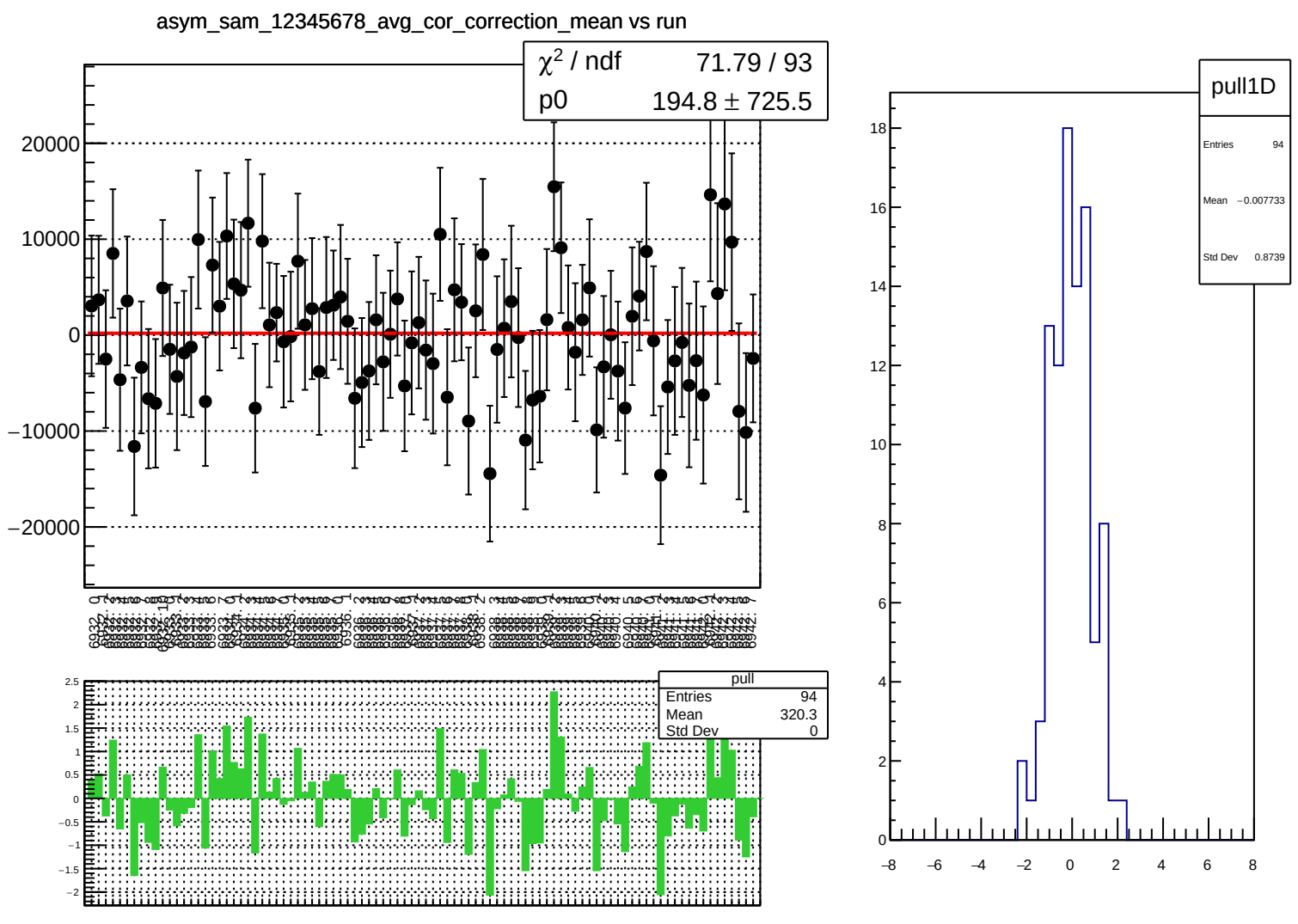

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4214 / 93
p0 60.58 ± 0.04567
74
72
70
68
66
64
62
60
58
56

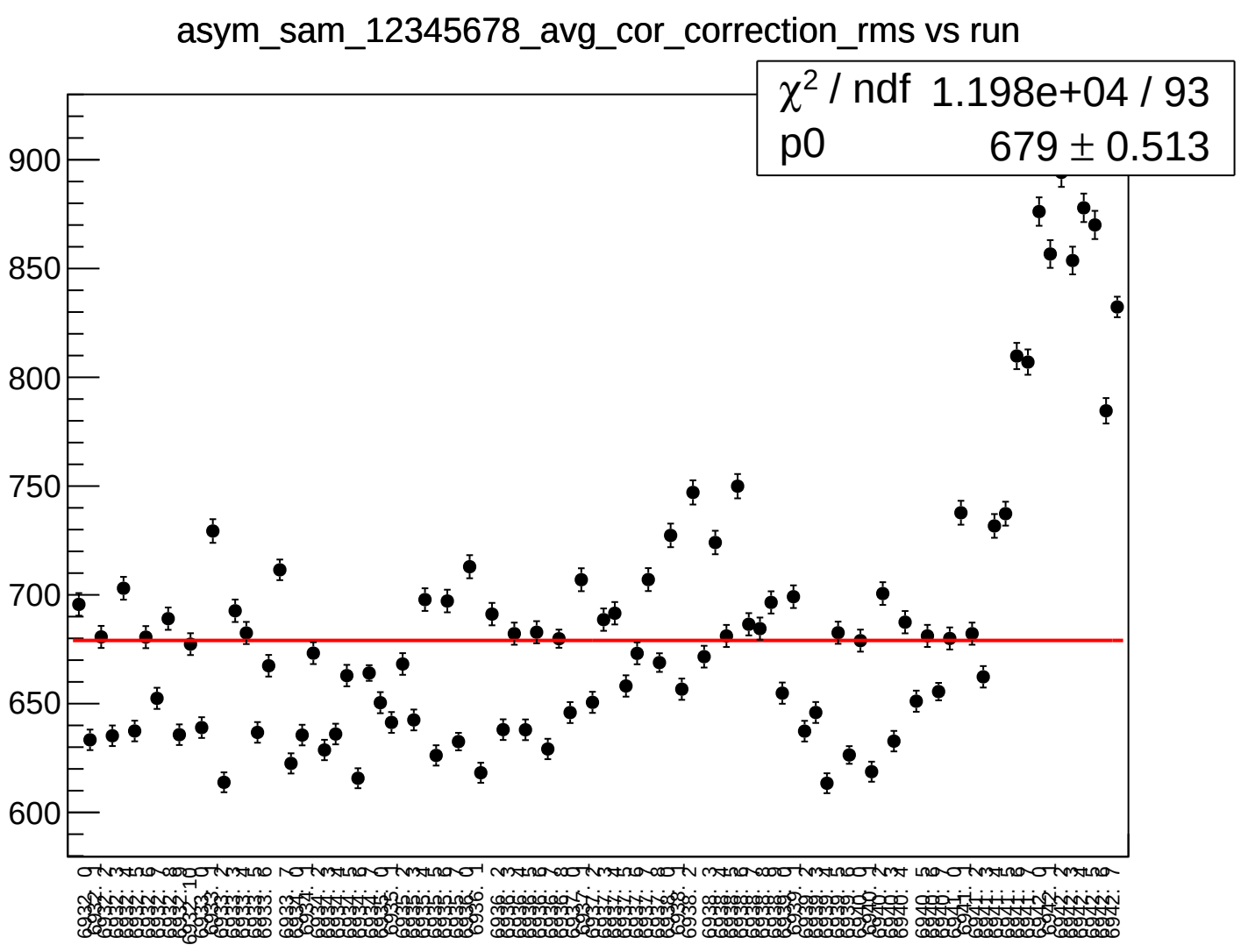

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 71.79 / 93
p0 194.8 ± 725.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 320.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007734
Std Dev 0.8739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

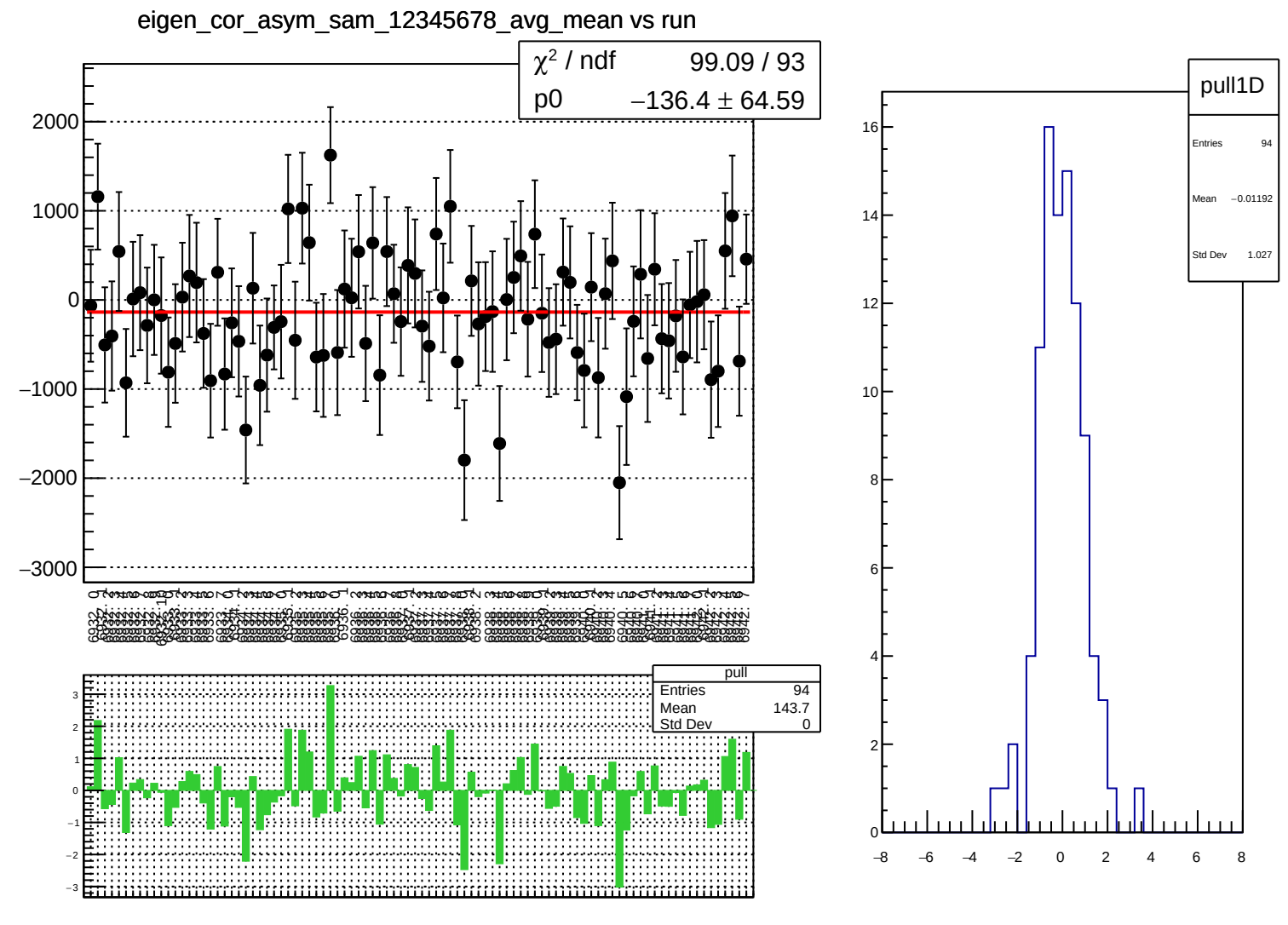

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.198e+04 / 93
p0 679 ± 0.513
900
850
800
750
700
650
600

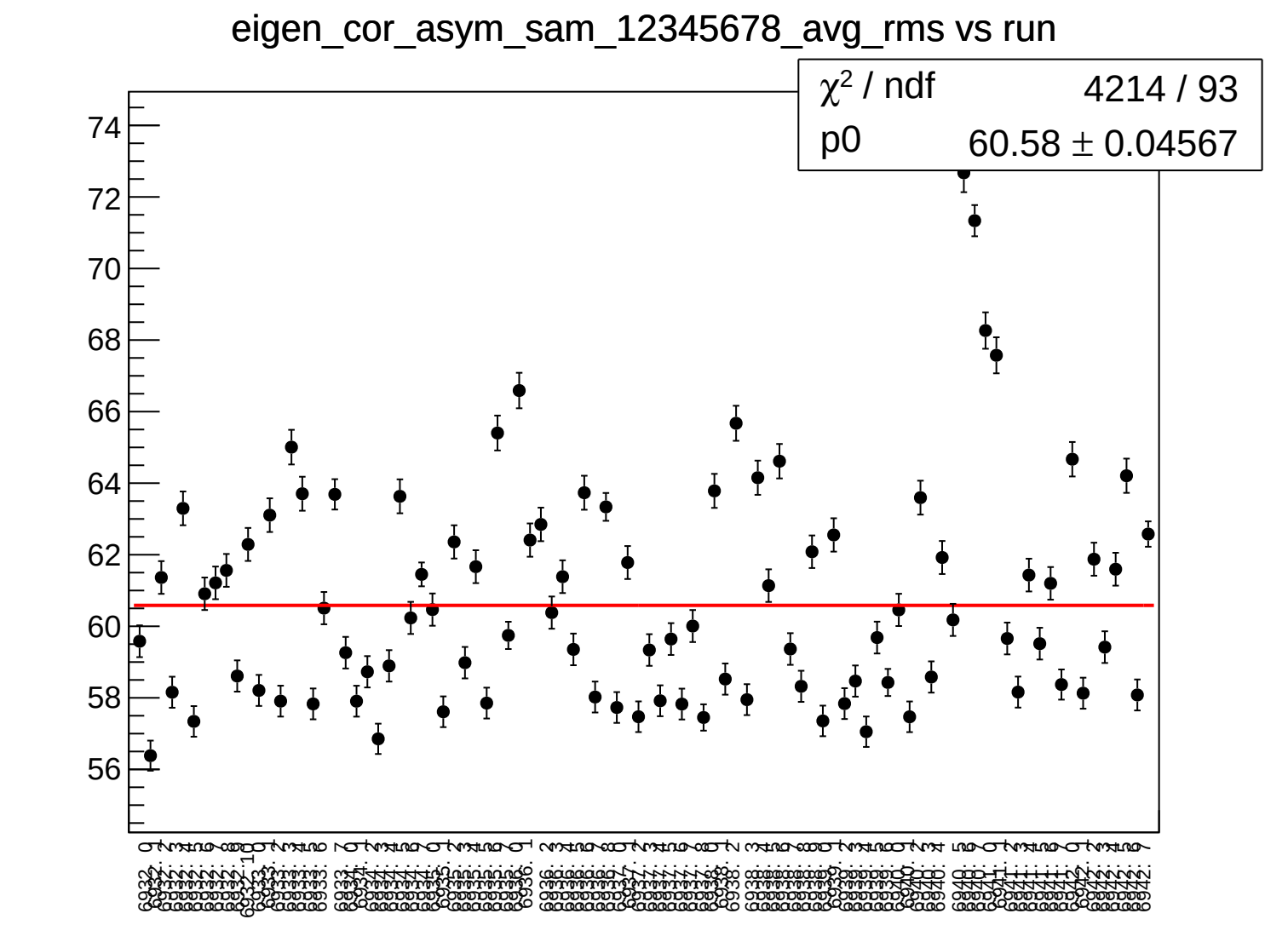

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.09 / 93
p0 −136.4 ± 64.59
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 143.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01192
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

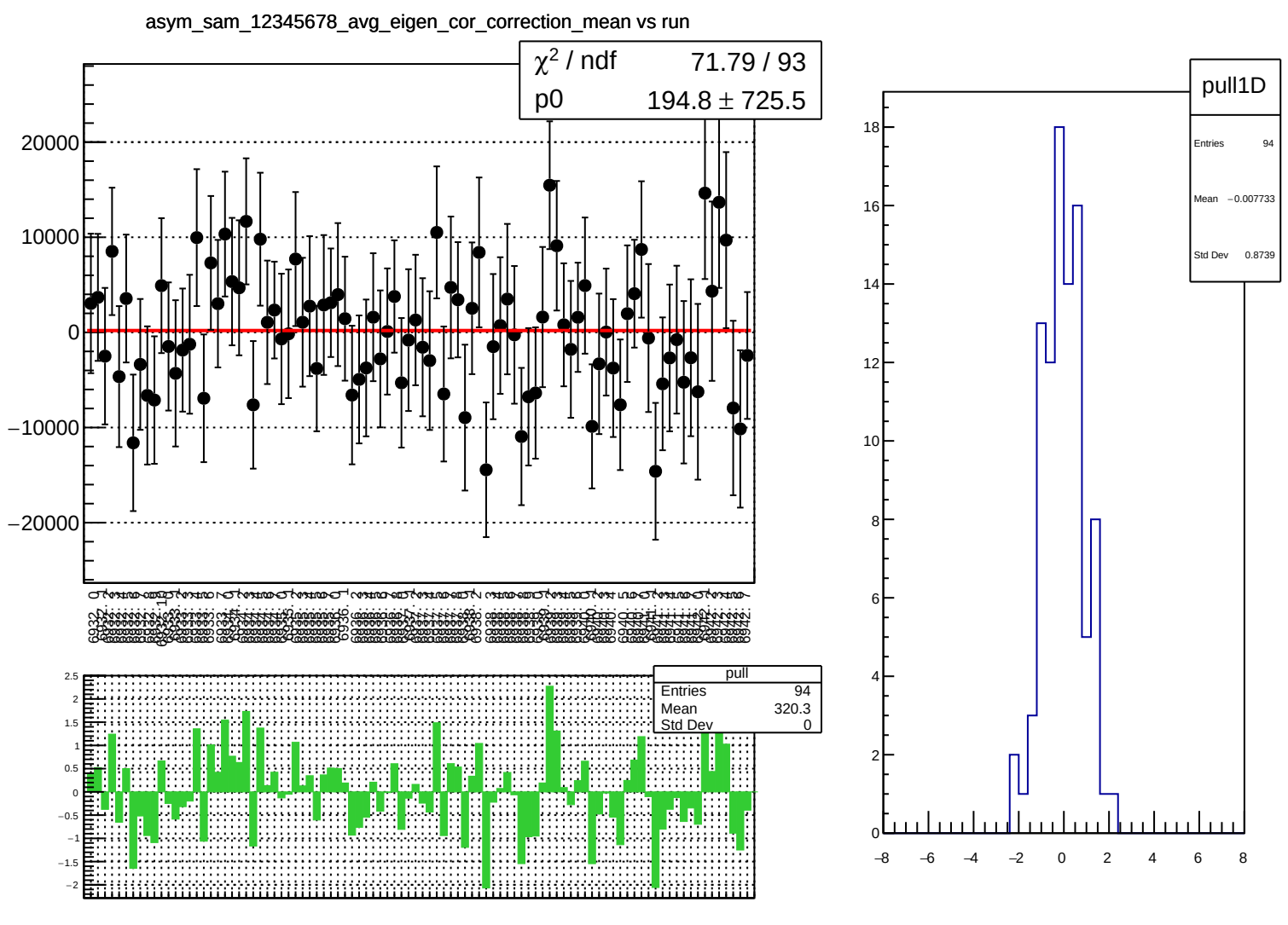

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4214 / 93
p0 60.58 ± 0.04567
74
72
70
68
66
64
62
60
58
56

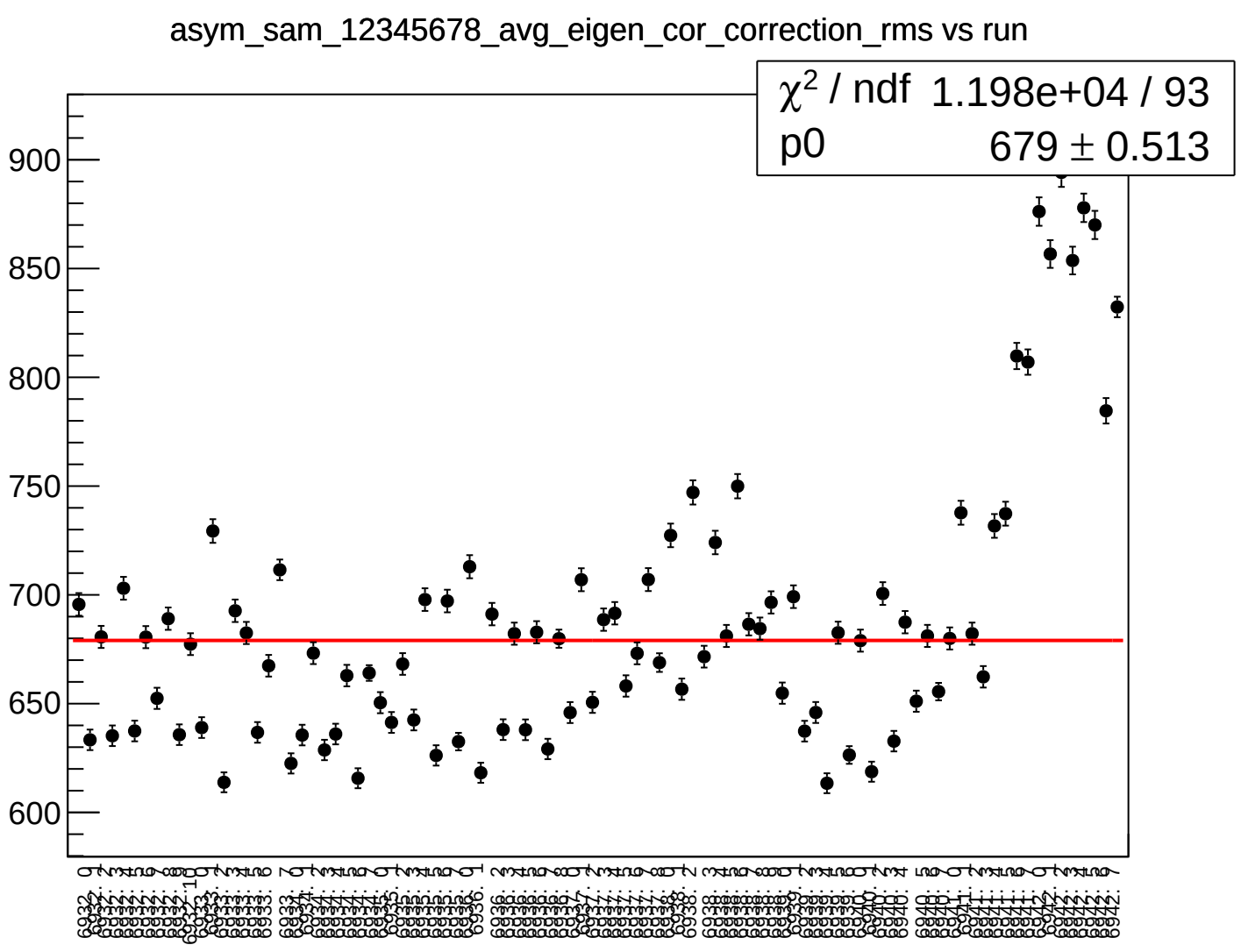

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 71.79 / 93
p0 194.8 ± 725.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 320.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007733
Std Dev 0.8739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

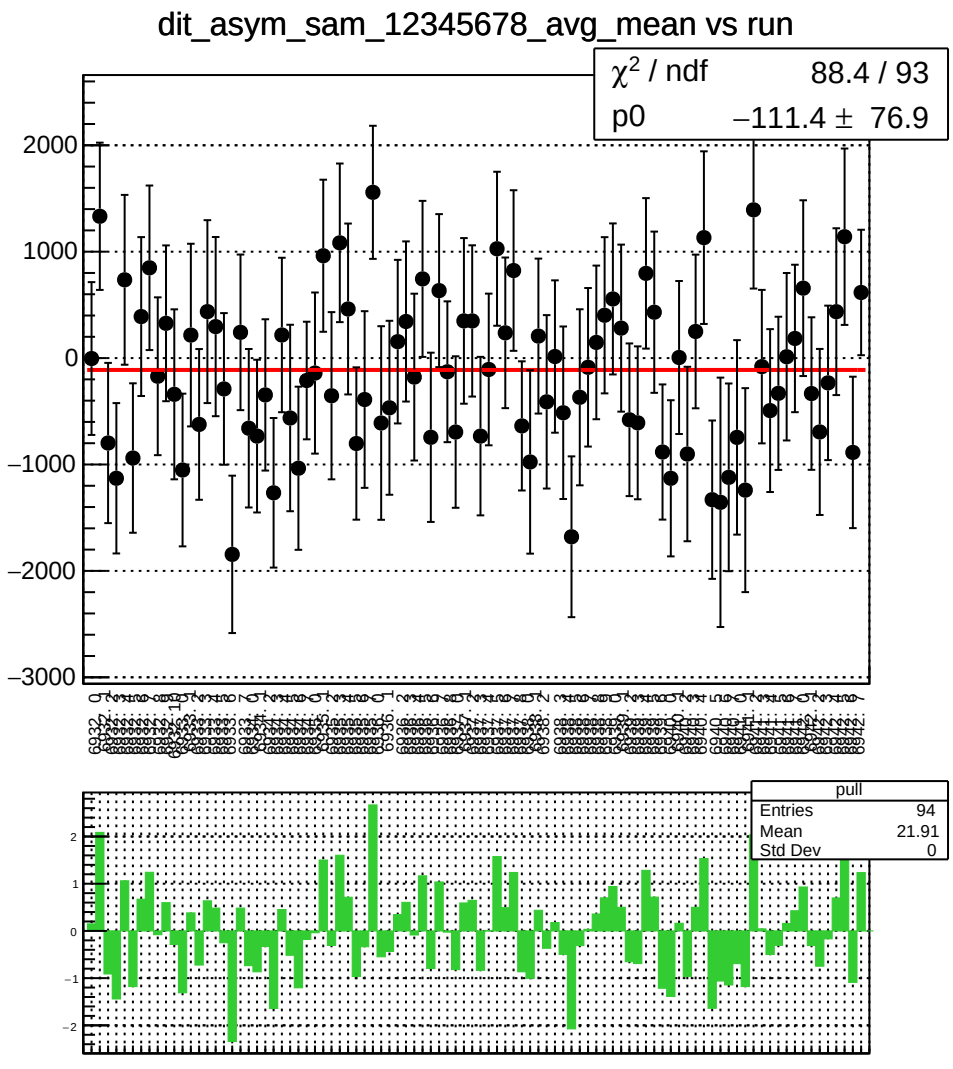

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 93
p0 679 ± 0.513
900
850
800
750
700
650
600

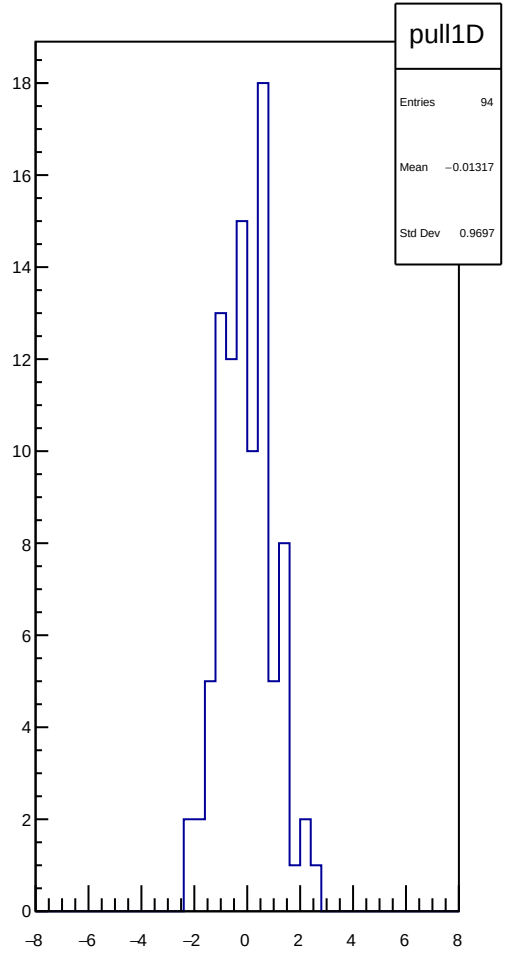

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 99.09 / 93
p0 −136.4 ± 64.59
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 143.7
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.01192
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

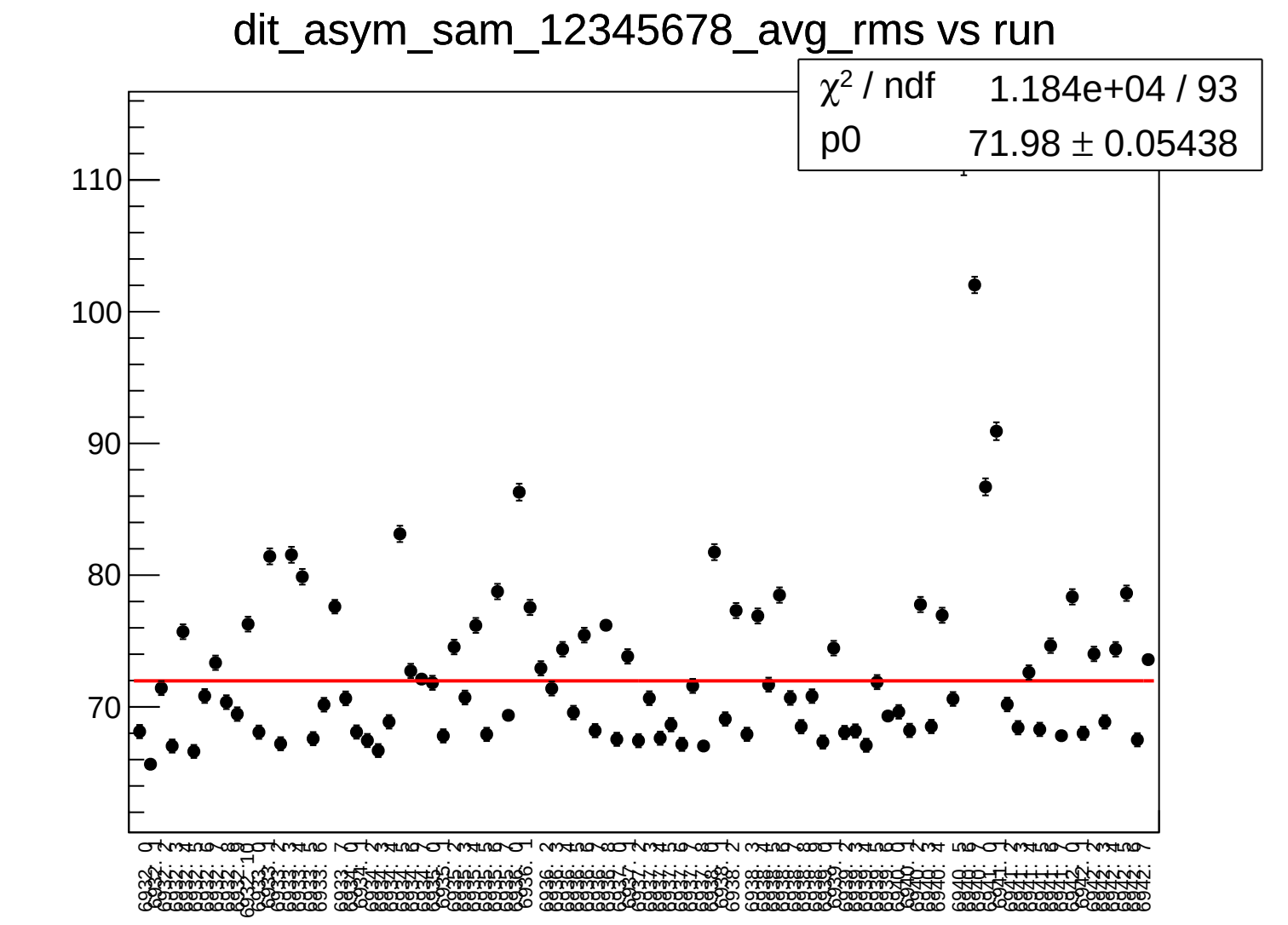

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4214 / 93
p0 60.58 ± 0.04567
74
72
70
68
66
64
62
60
58
56

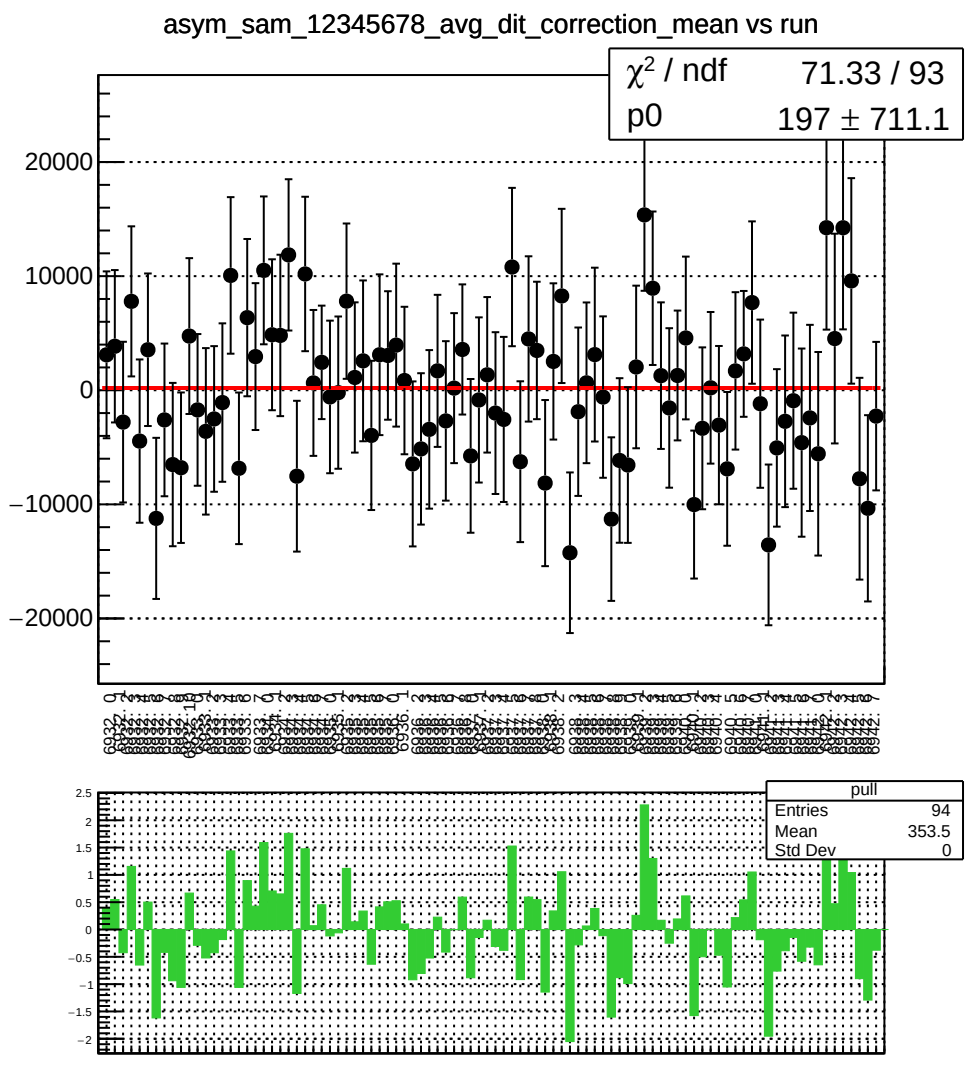

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.79 / 93
p0 194.8 ± 725.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 320.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007733
Std Dev 0.8739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

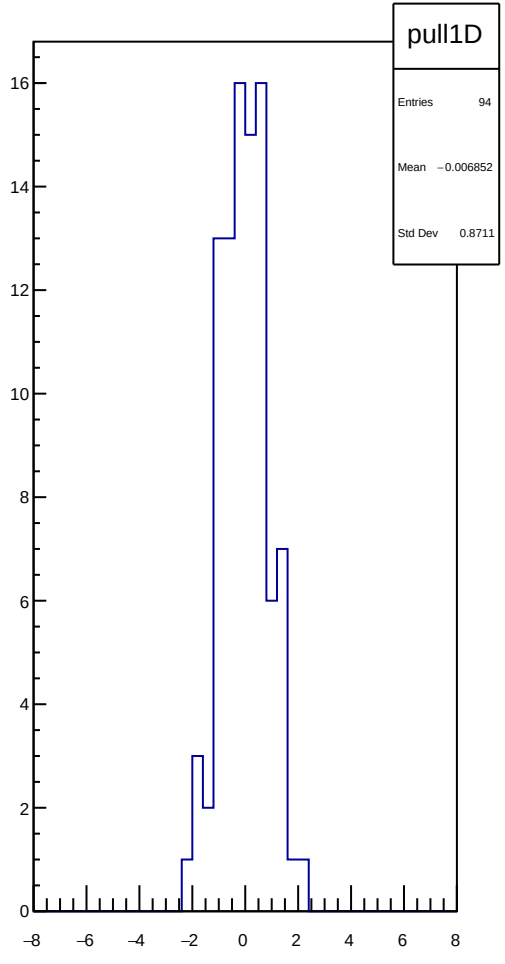

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.198e+04 / 93
p0 679 ± 0.513
900
850
800
750
700
650
600

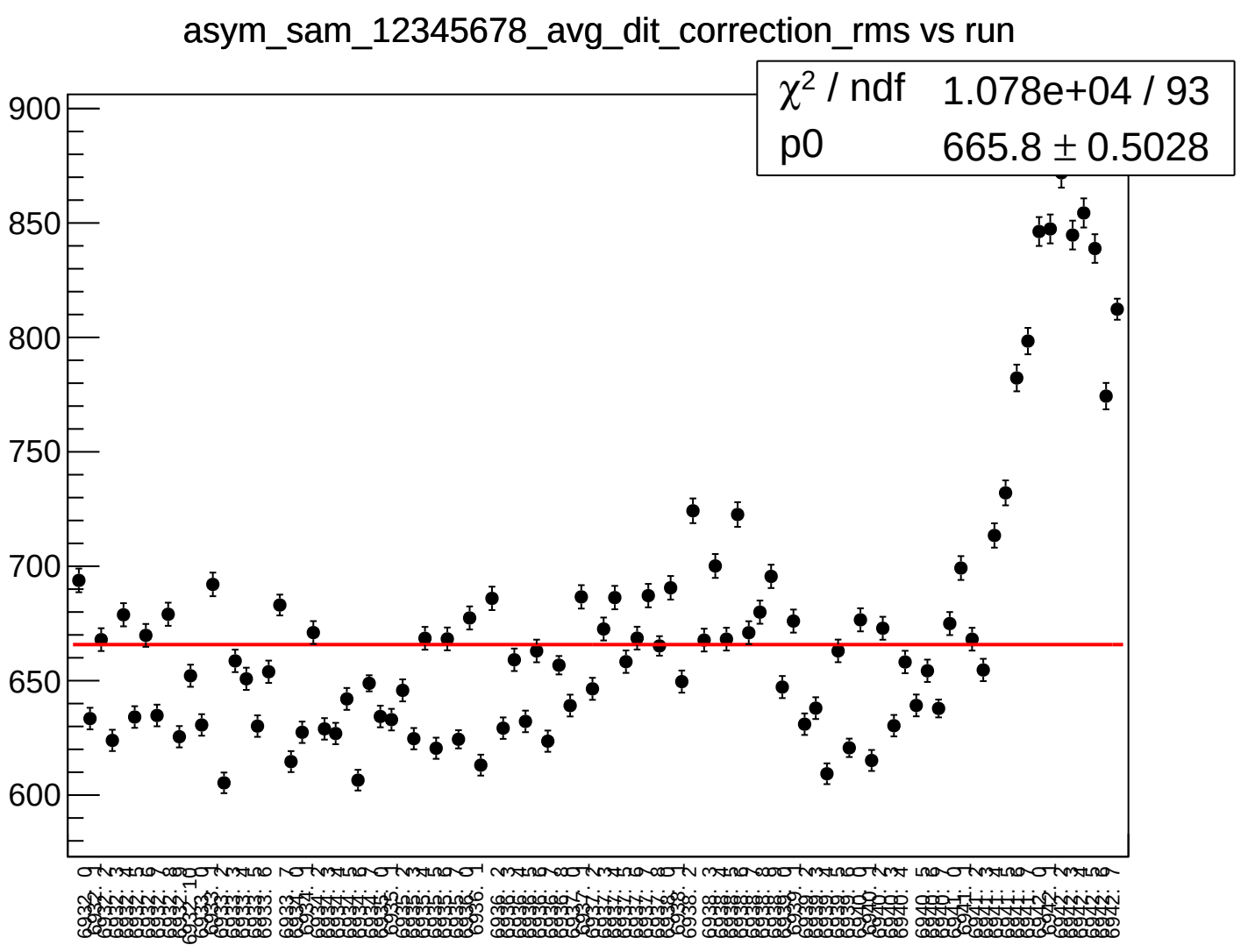

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 88.4 / 93
p0 −111.4 ± 76.9
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 21.91
Std Dev 0
2
1
0
−1
−2

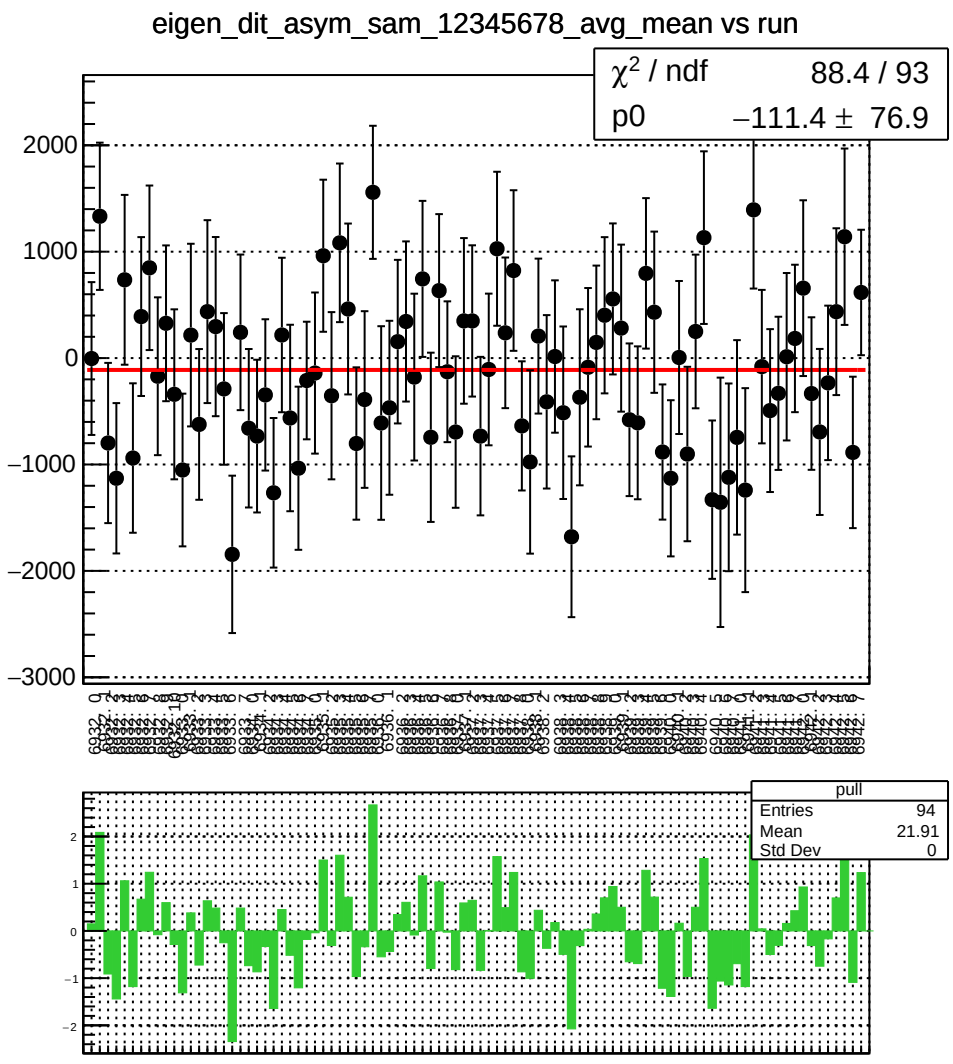

pull1D
Entries 94
Mean −0.01317
Std Dev 0.9697
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

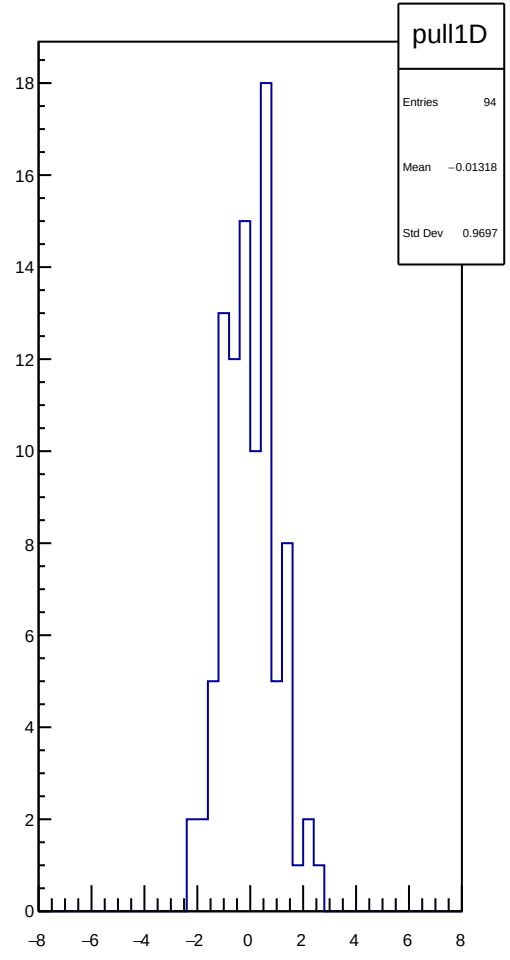

dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.184e+04 / 93
p0 71.98 ± 0.05438
110
100
90
80
70

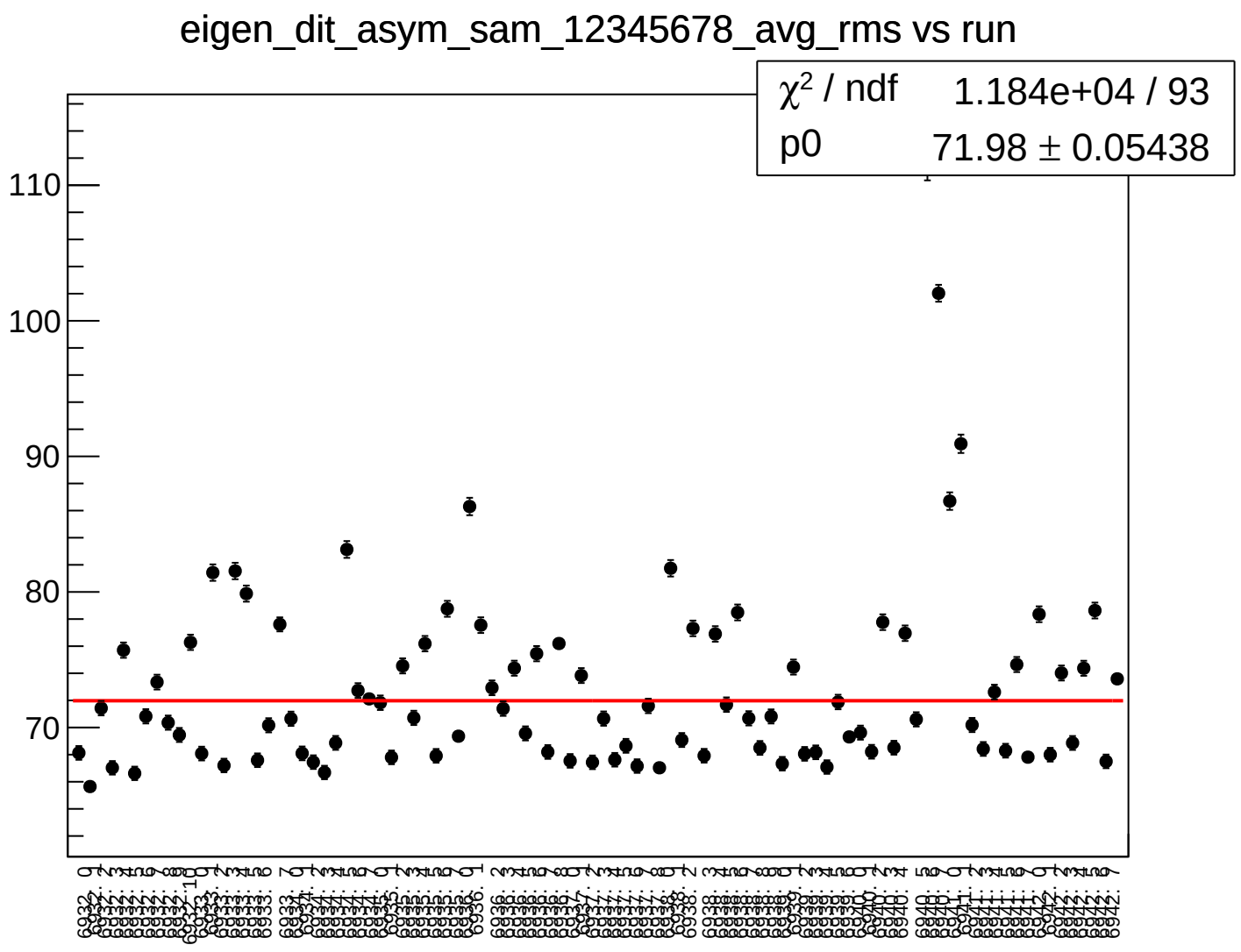

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 71.33 / 93
p0 197 ± 711.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 353.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

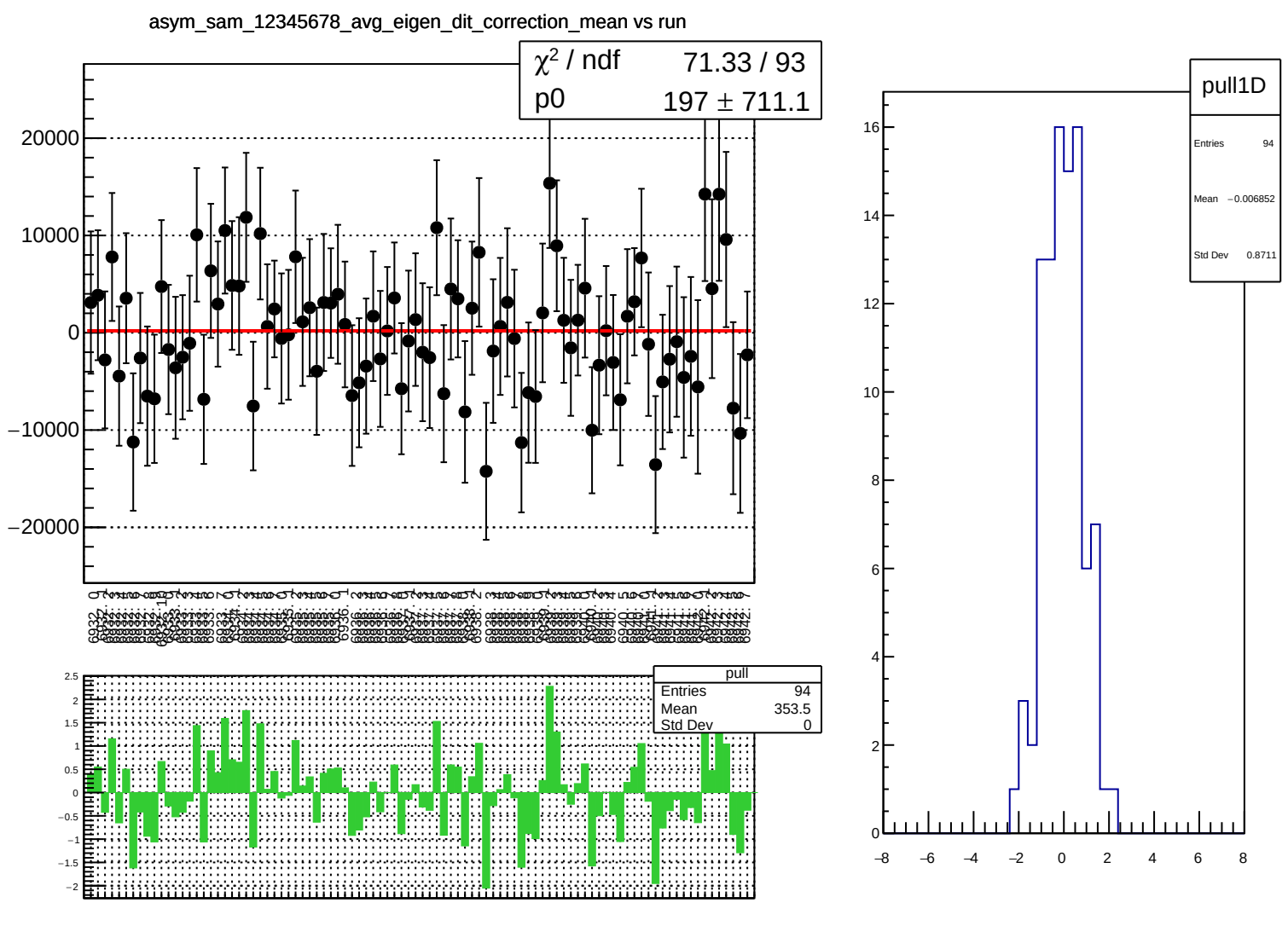

pull1D
Entries 94
Mean −0.006852
Std Dev 0.8711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

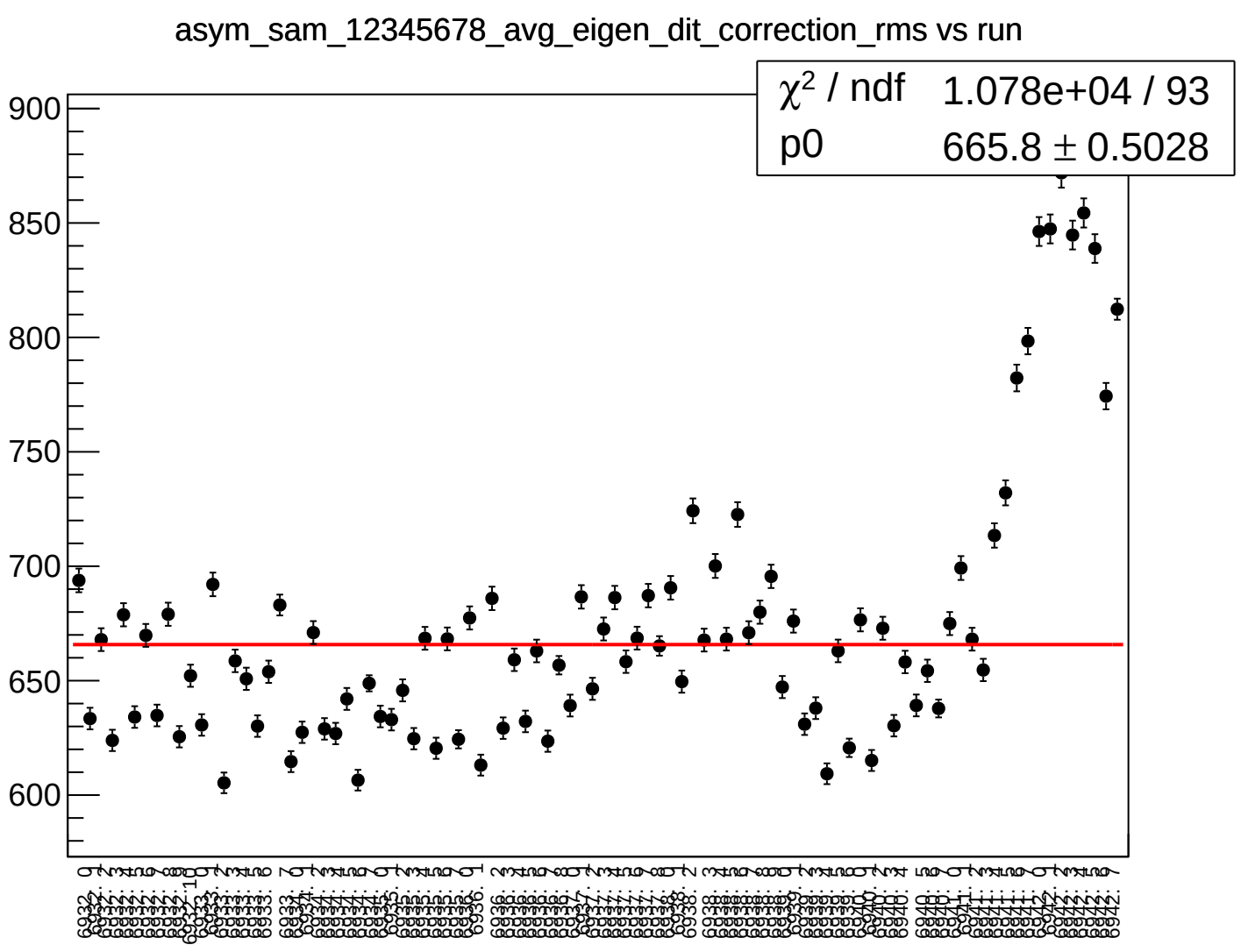

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 93
p0 665.8 ± 0.5028
900
850
800
750
700
650
600

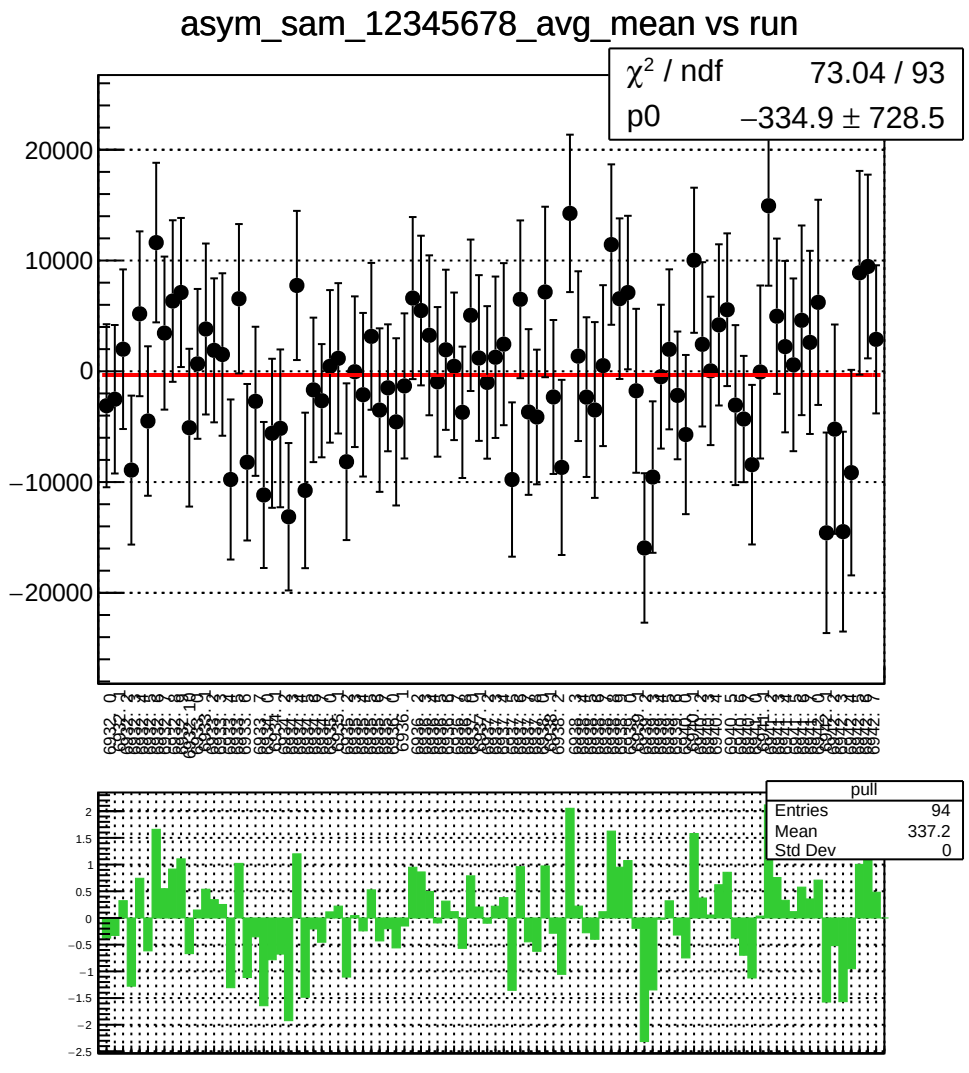

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 88.4 / 93
p0 −111.4 ± 76.9
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 21.91
Std Dev 0
2
1
0
−1
−2

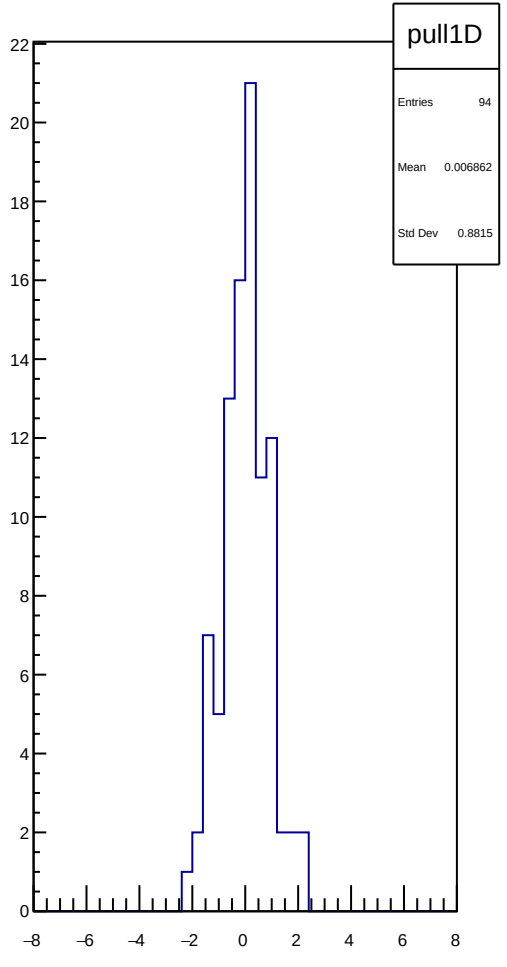

pull1D
Entries 94
Mean −0.01318
Std Dev 0.9697
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

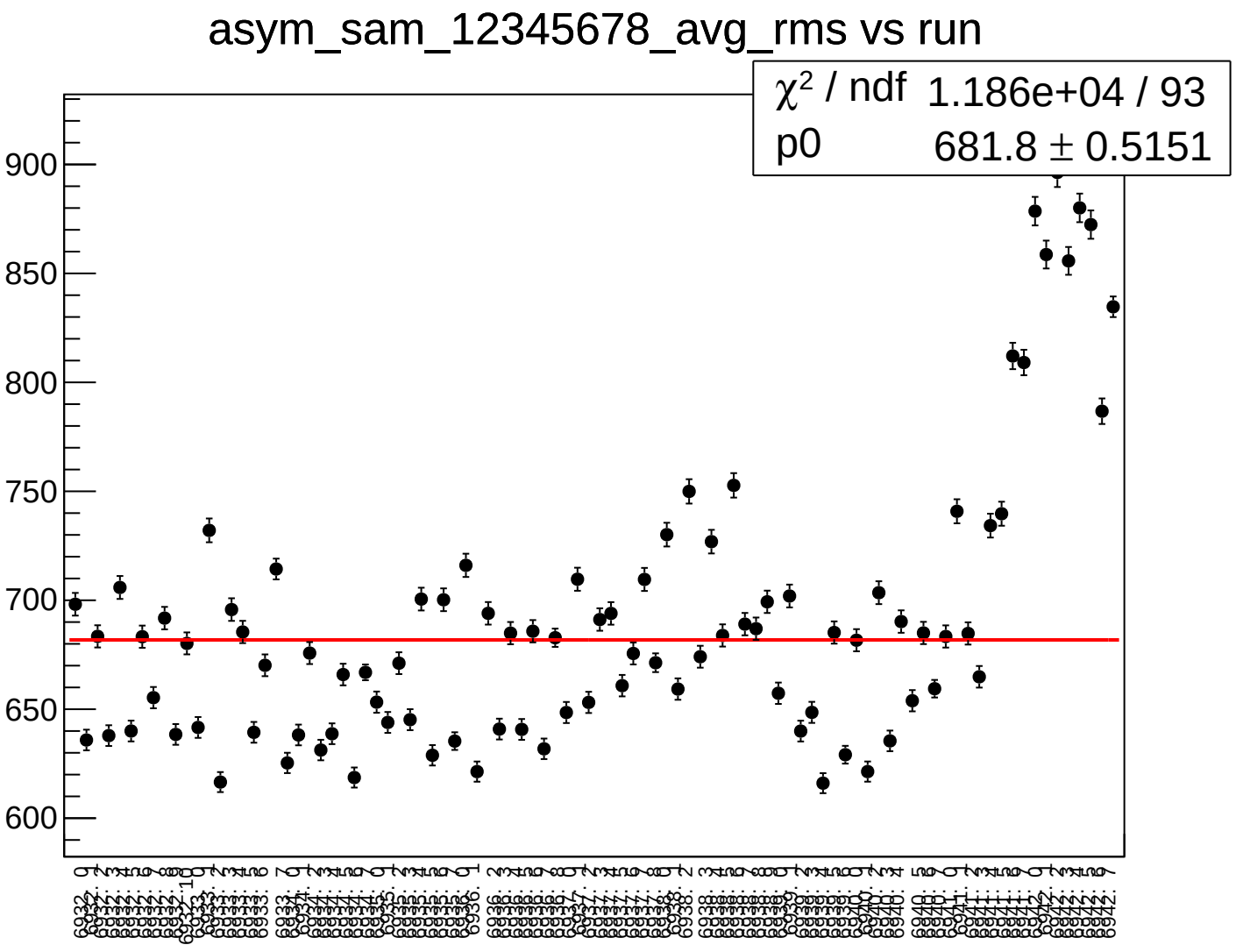

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.184e+04 / 93
p0 71.98 ± 0.05438
110
100
90
80
70

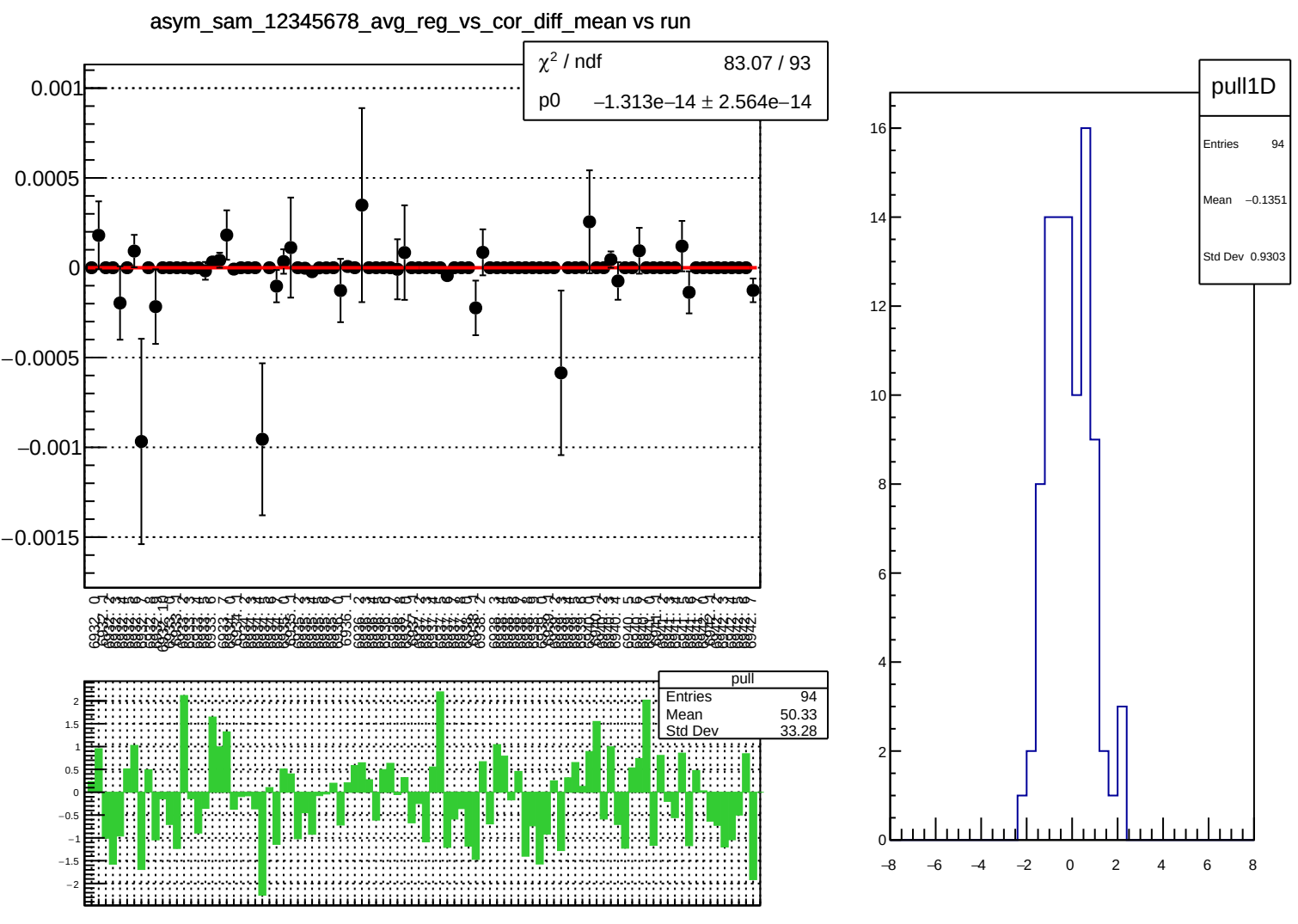

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.33 / 93
p0 197 ± 711.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 353.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.006852
Std Dev 0.8711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

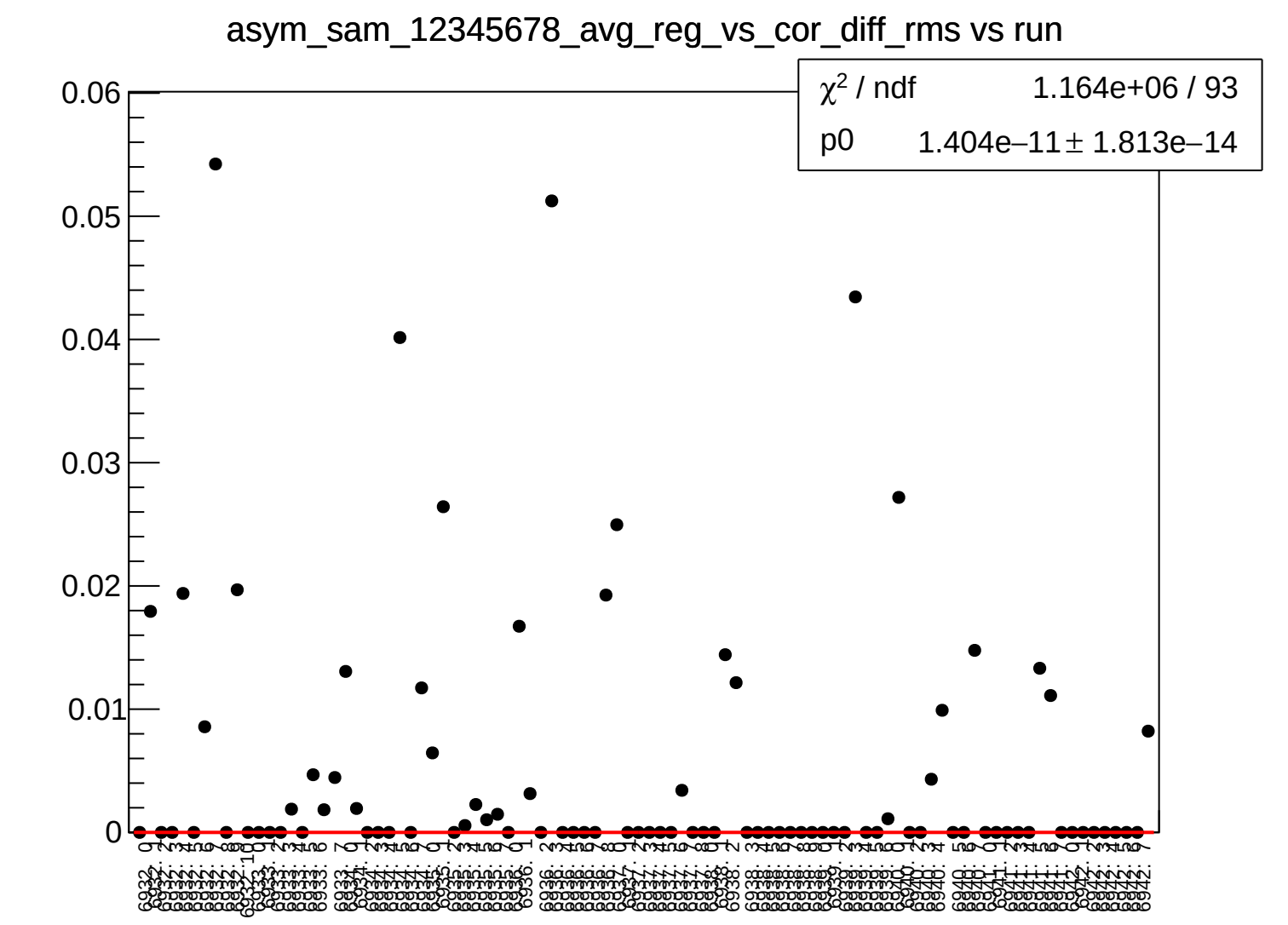

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.078e+04 / 93
p0 665.8 ± 0.5028
900
850
800
750
700
650
600

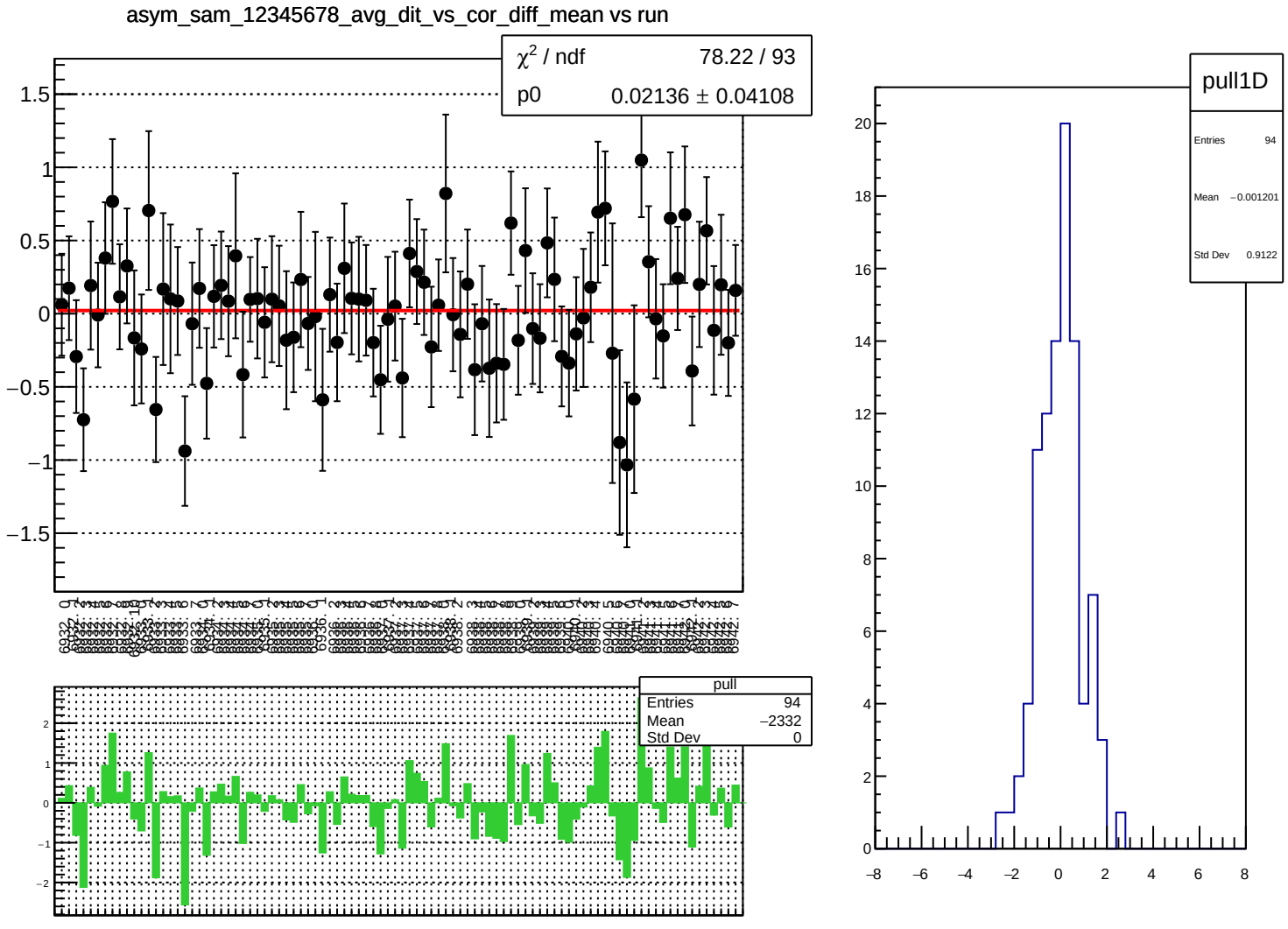

asym_sam_12345678_avg_mean vs run
χ² / ndf 73.04 / 93
p0 −334.9 ± 728.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 337.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

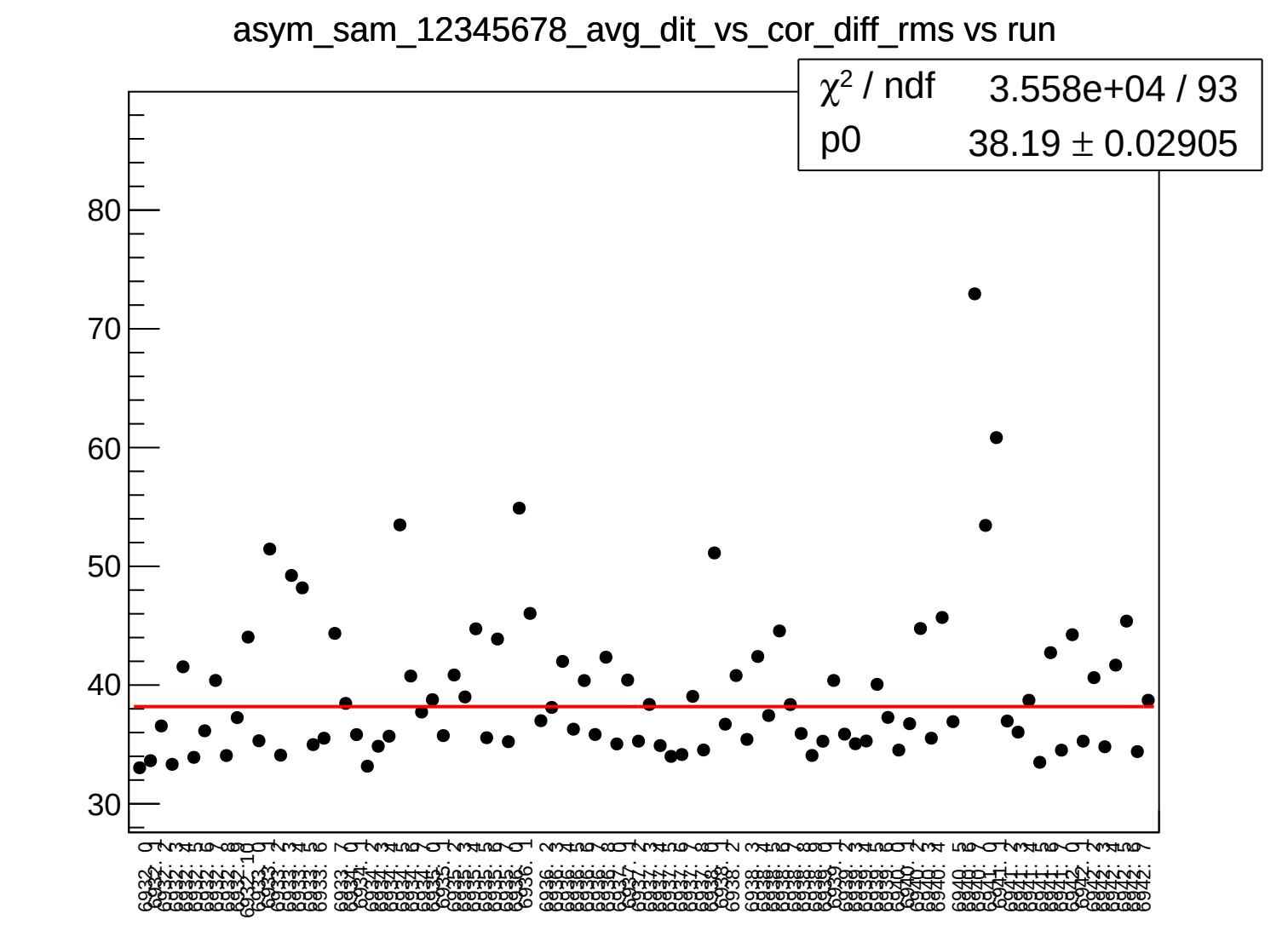

pull1D
Entries 94
Mean 0.006862
Std Dev 0.8815
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

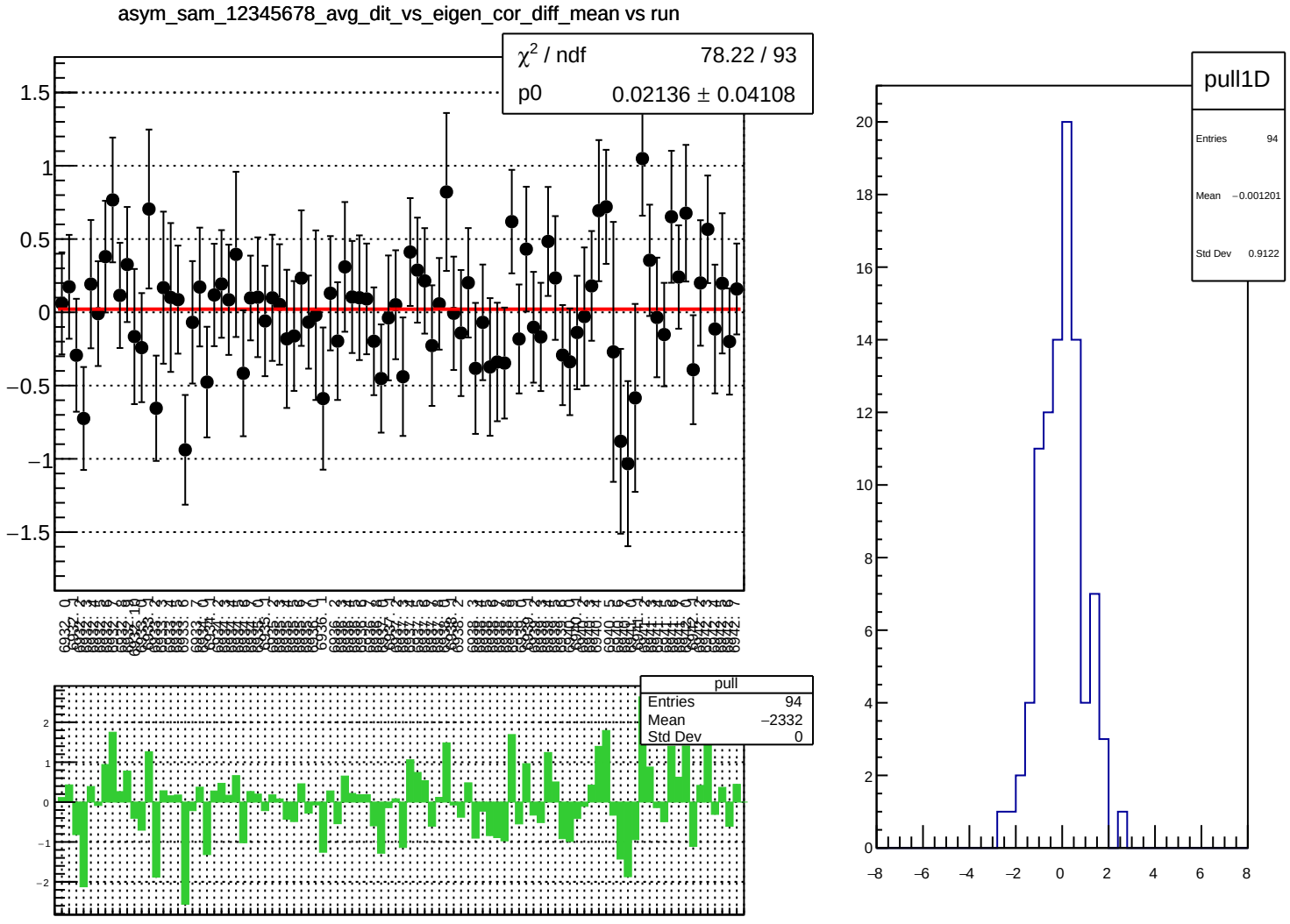

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.186e+04 / 93
p0 681.8 ± 0.5151
900
850
800
750
700
650
600

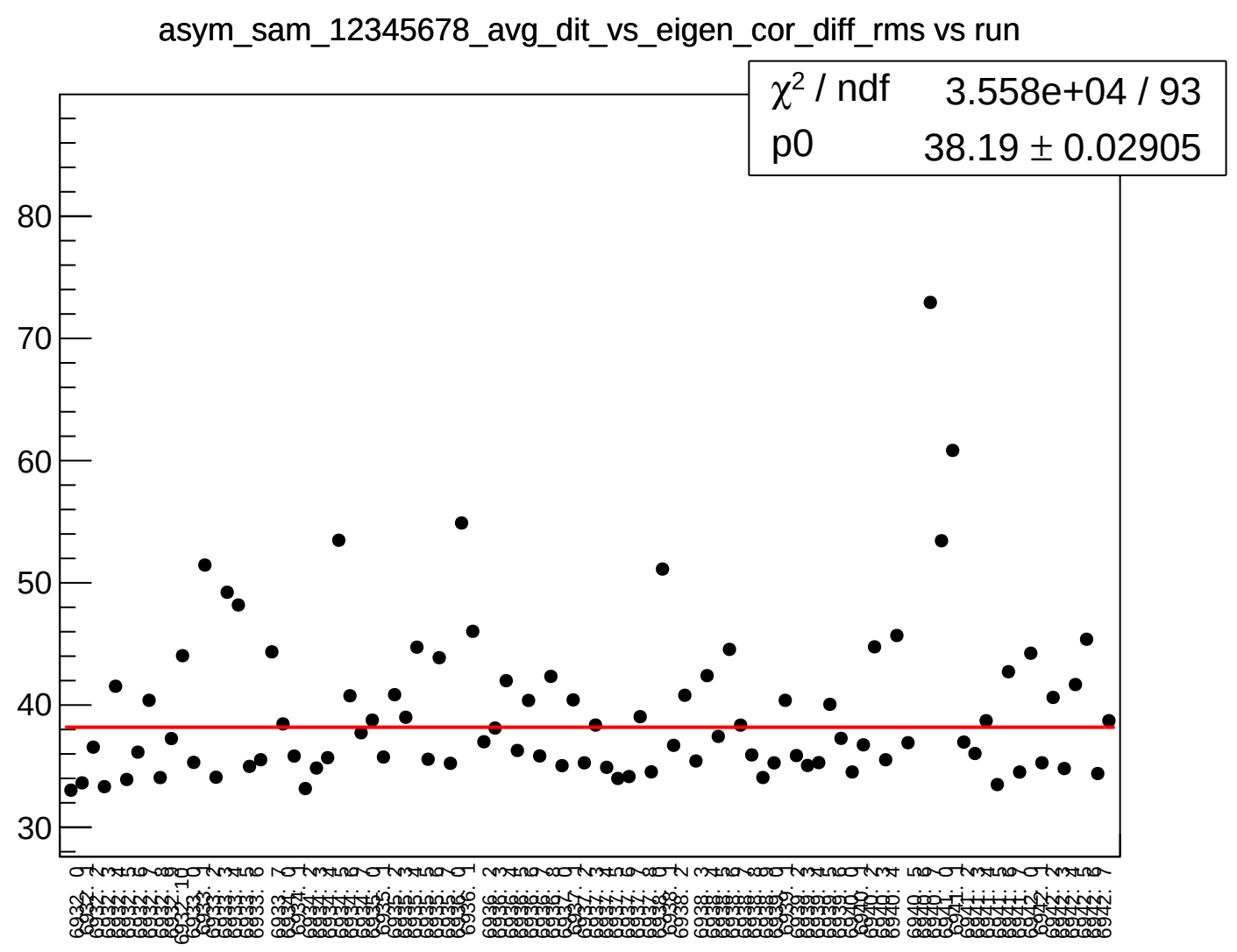

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.07 / 93
p0 −1.313e−14 ± 2.564e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 50.33
Std Dev 33.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.1351
Std Dev 0.9303
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

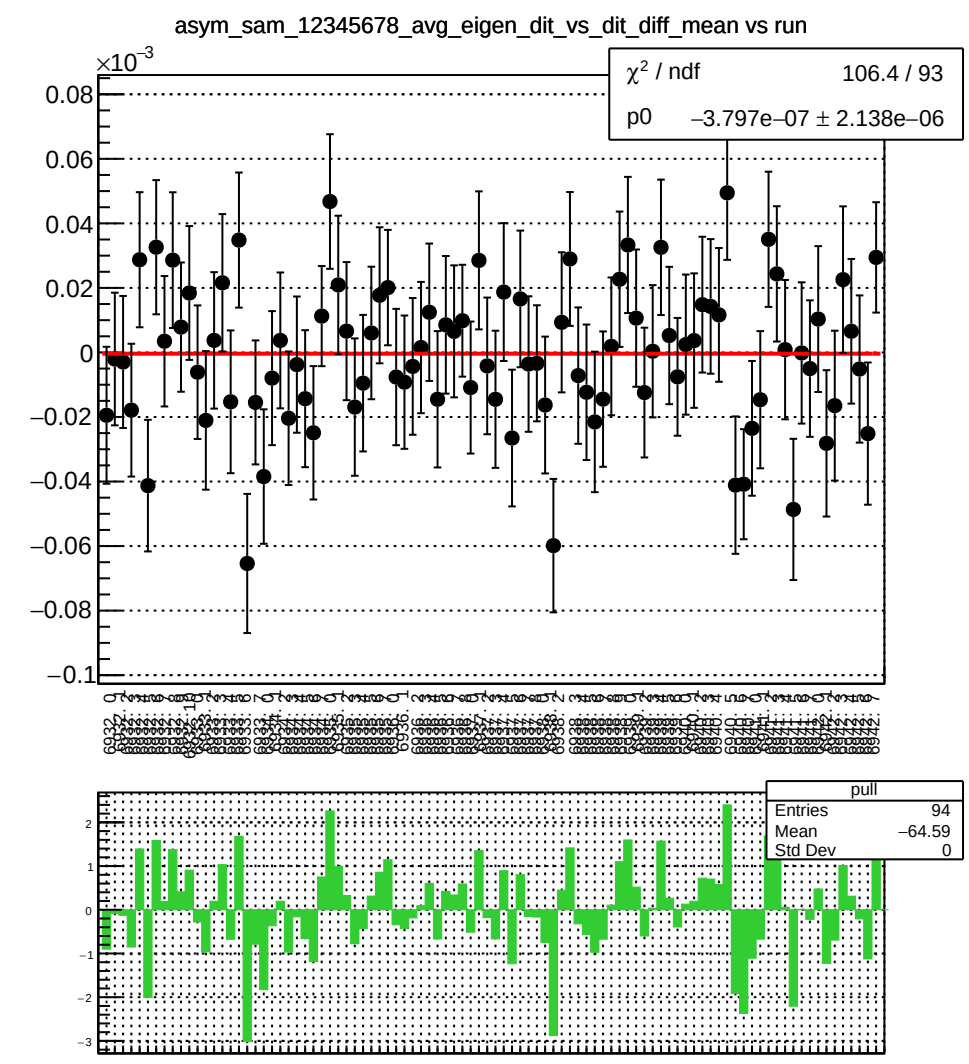

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.164e+06 / 93
p0 1.404e−11 ± 1.813e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

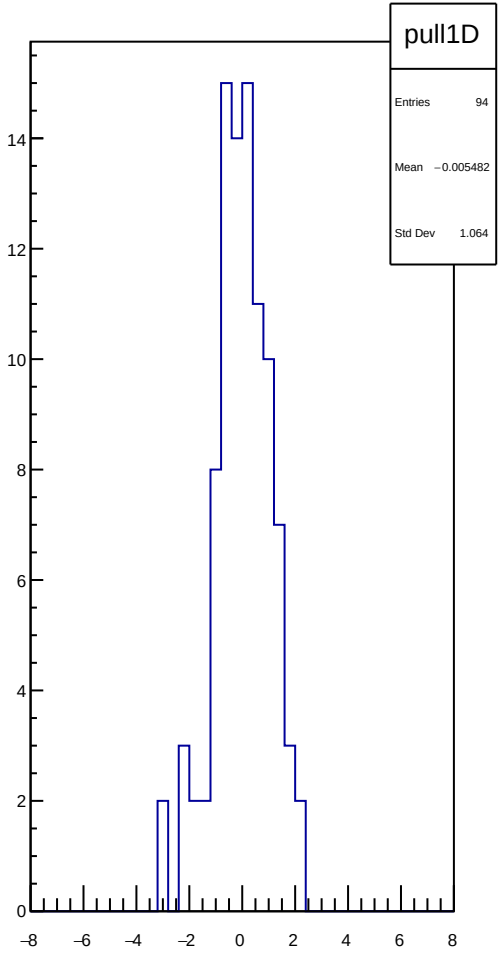

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.22 / 93
p0 0.02136 ± 0.04108
pull
Entries 94
Mean −2332
Std Dev 0
pull1D
Entries 94
Mean −0.001201
Std Dev 0.9122

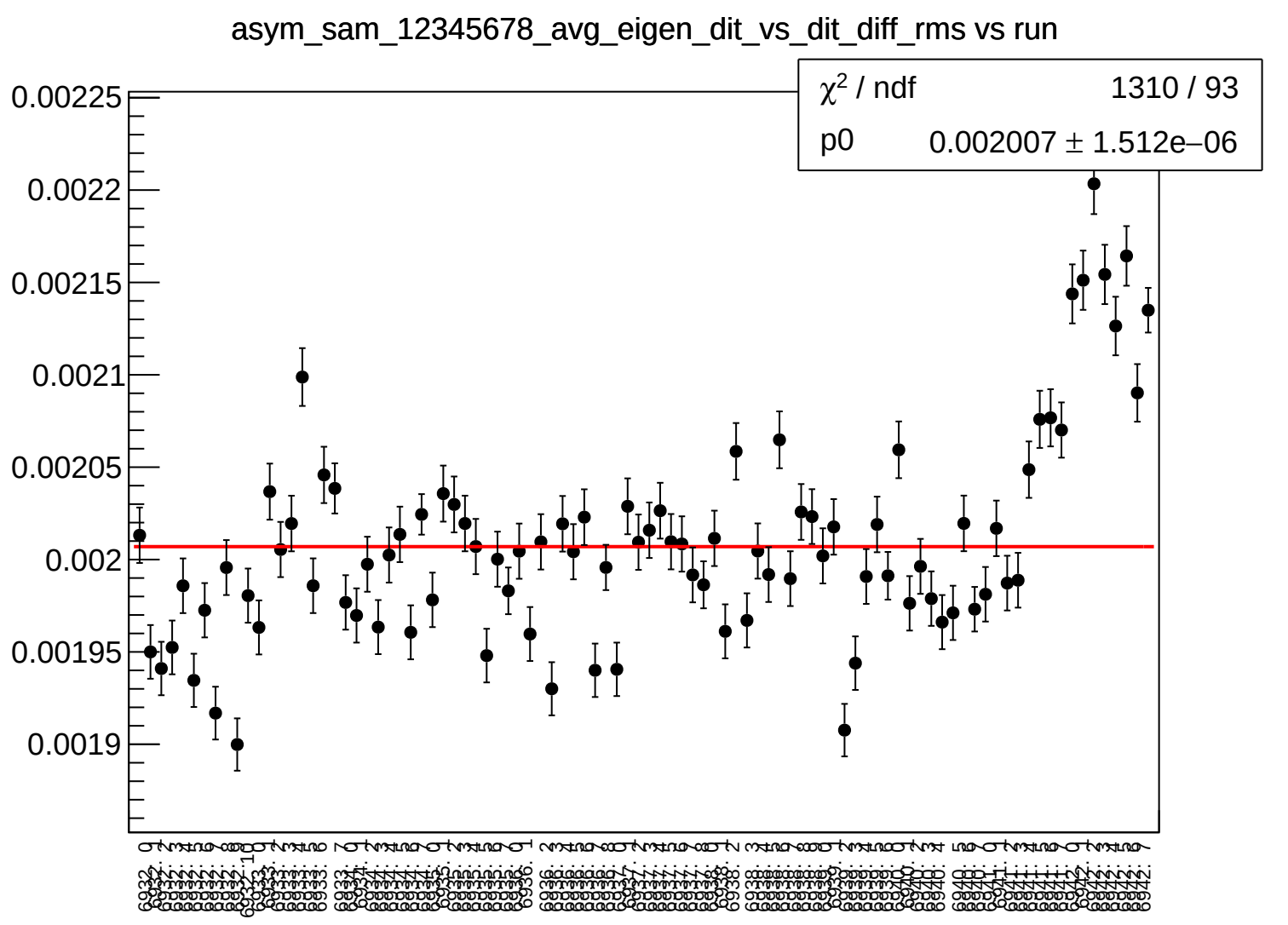

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 93
p0 38.19 ± 0.02905
80
70
60
50
40
30

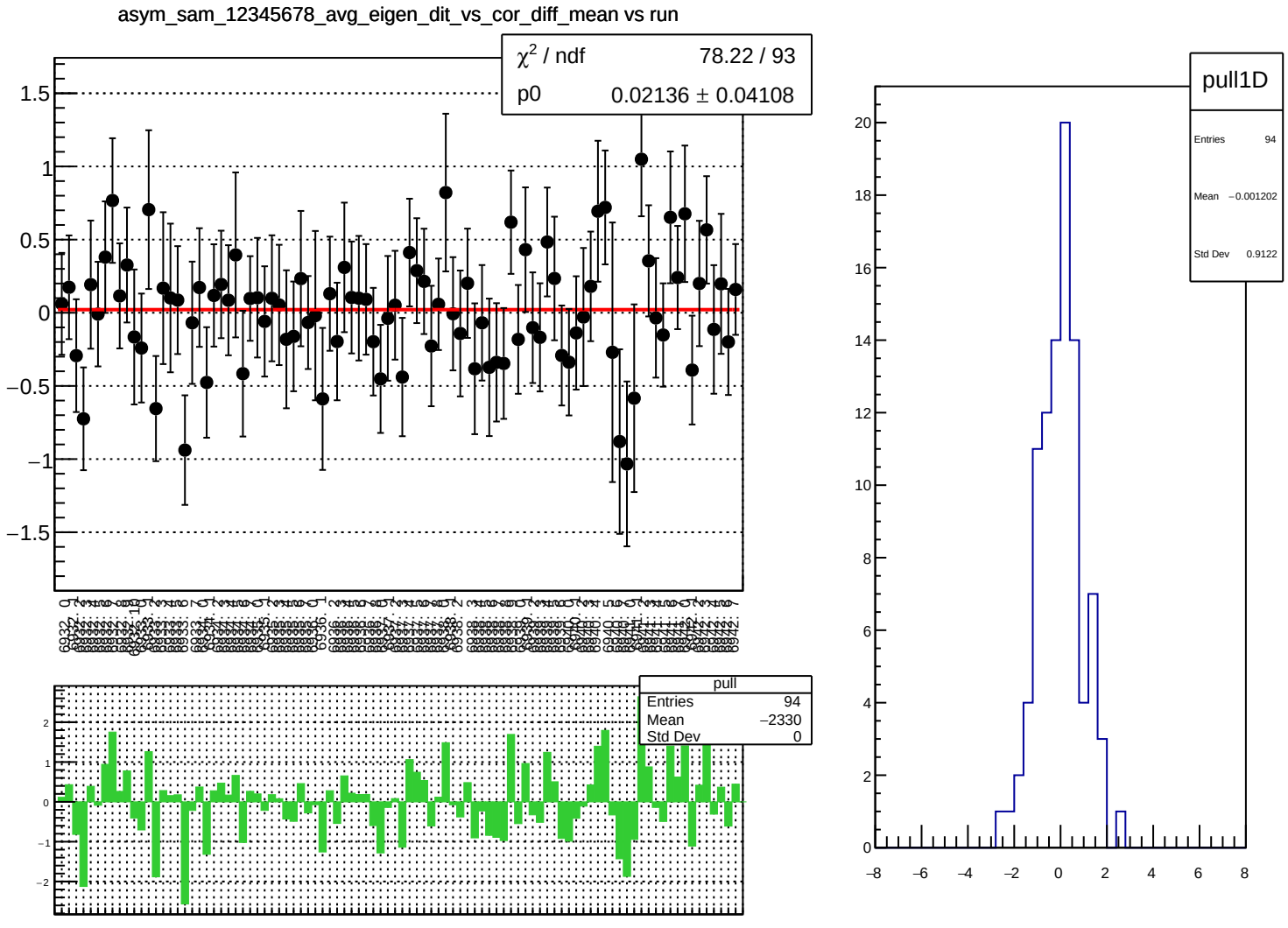

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.22 / 93
p0 0.02136 ± 0.04108
pull
Entries 94
Mean −2332
Std Dev 0
pull1D
Entries 94
Mean −0.001201
Std Dev 0.9122

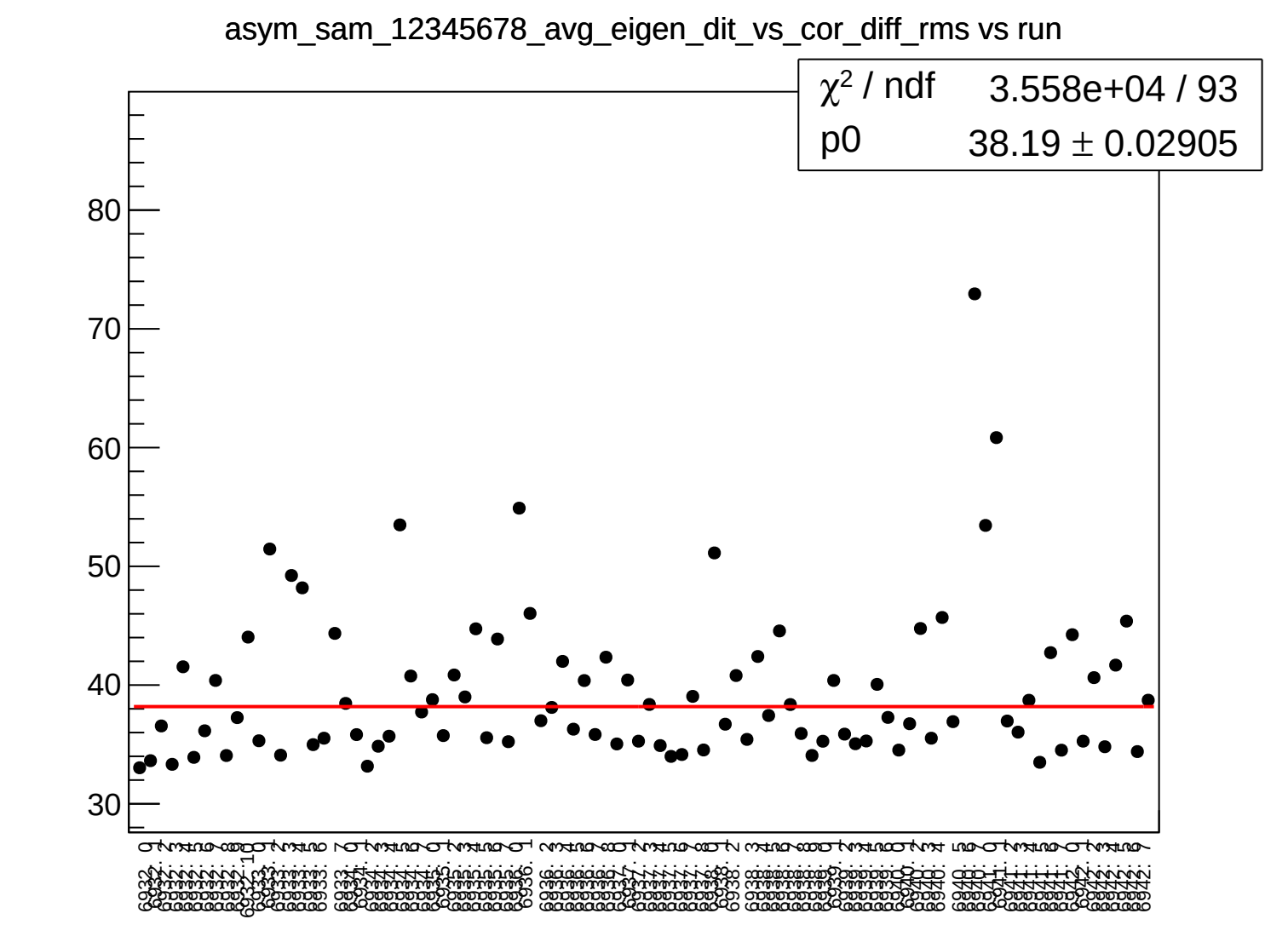

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 93
p0 38.19 ± 0.02905
80
70
60
50
40
30

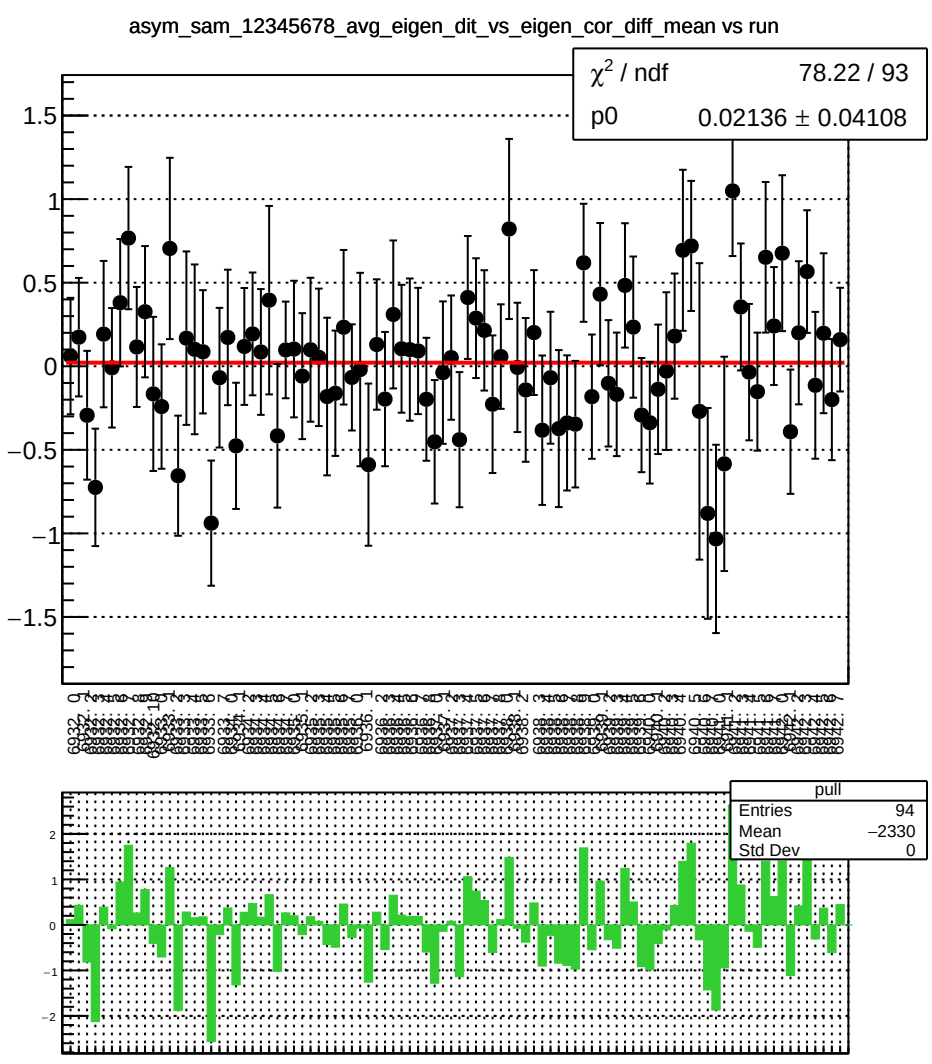

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.4 / 93
p0 −3.797e−07 ± 2.138e−06
pull
Entries 94
Mean −64.59
Std Dev 0

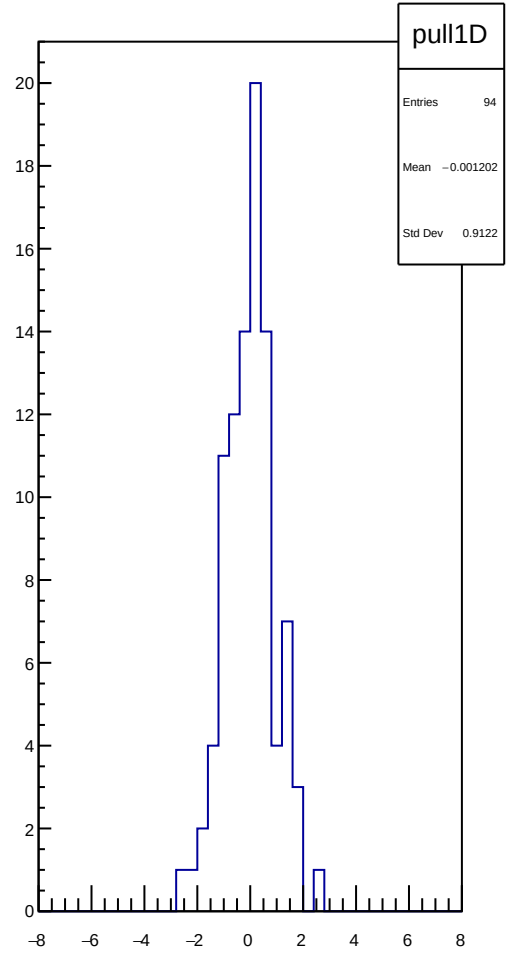

pull1D
Entries 94
Mean −0.005482
Std Dev 1.064

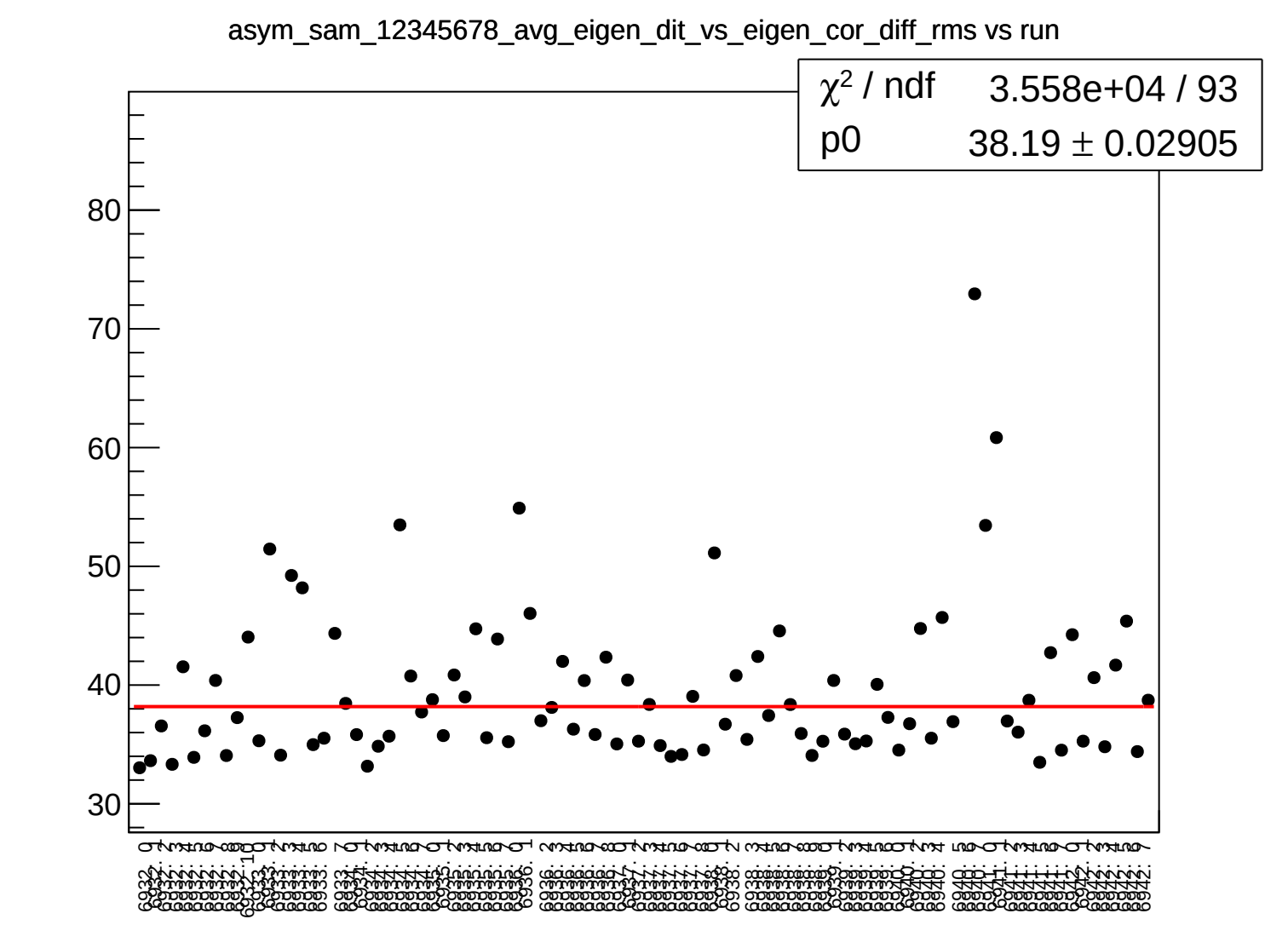

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1310 / 93
p0 0.002007 ± 1.512e−06
0.00225
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019

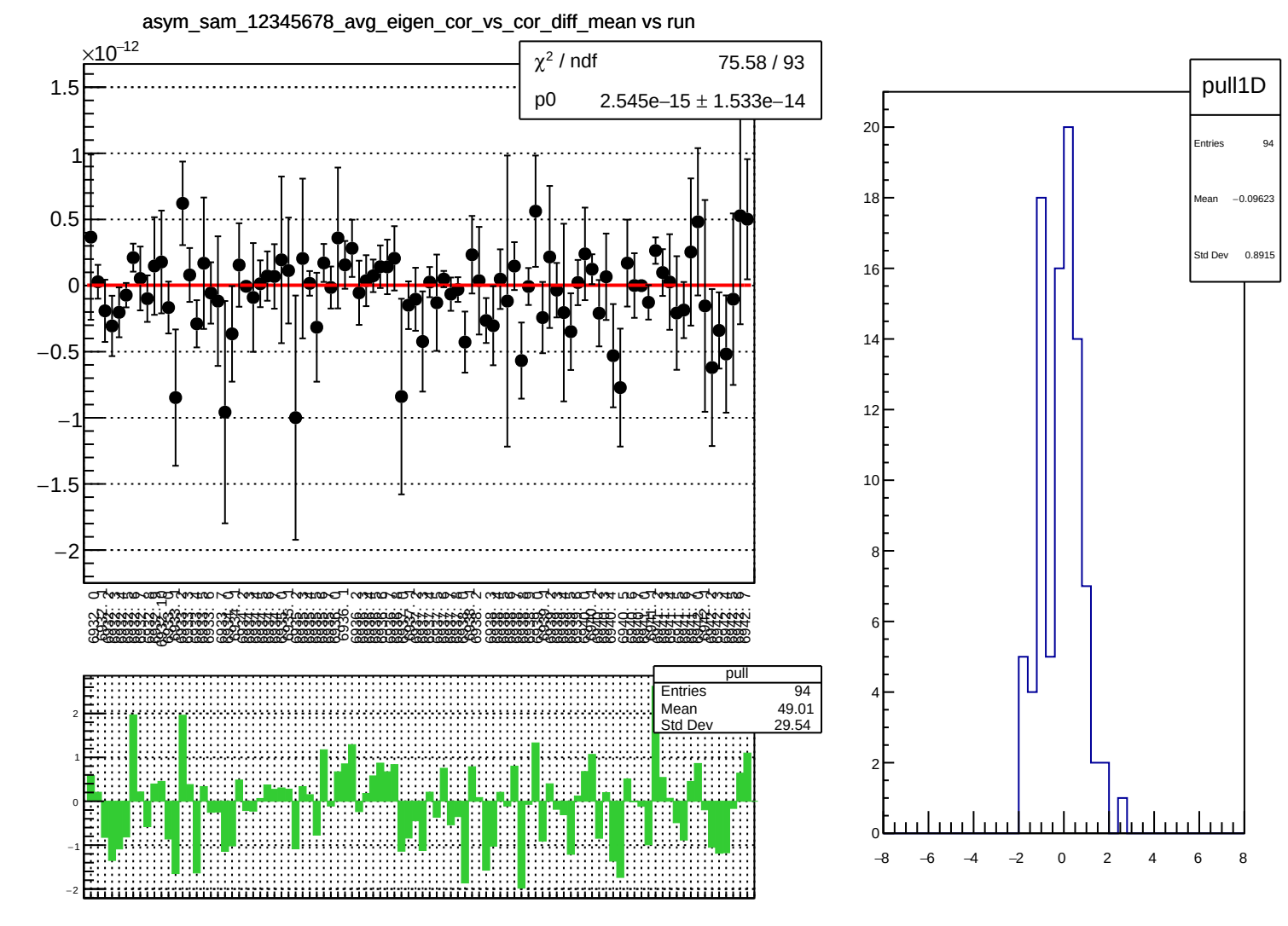

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.22 / 93
p0 0.02136 ± 0.04108
pull
Entries 94
Mean −2330
Std Dev 0
pull1D
Entries 94
Mean −0.001202
Std Dev 0.9122

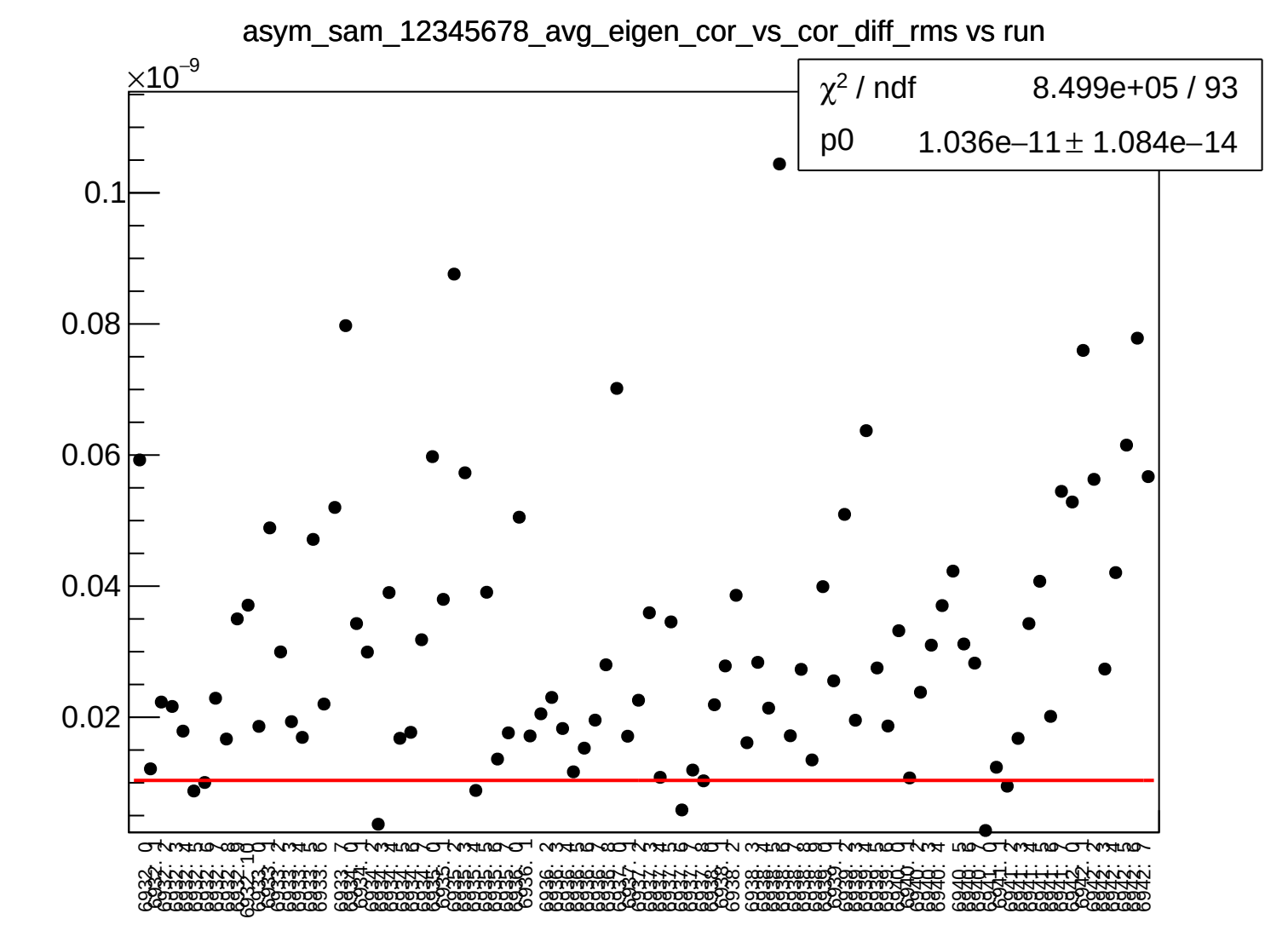

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 93
p0 38.19 ± 0.02905
80
70
60
50
40
30

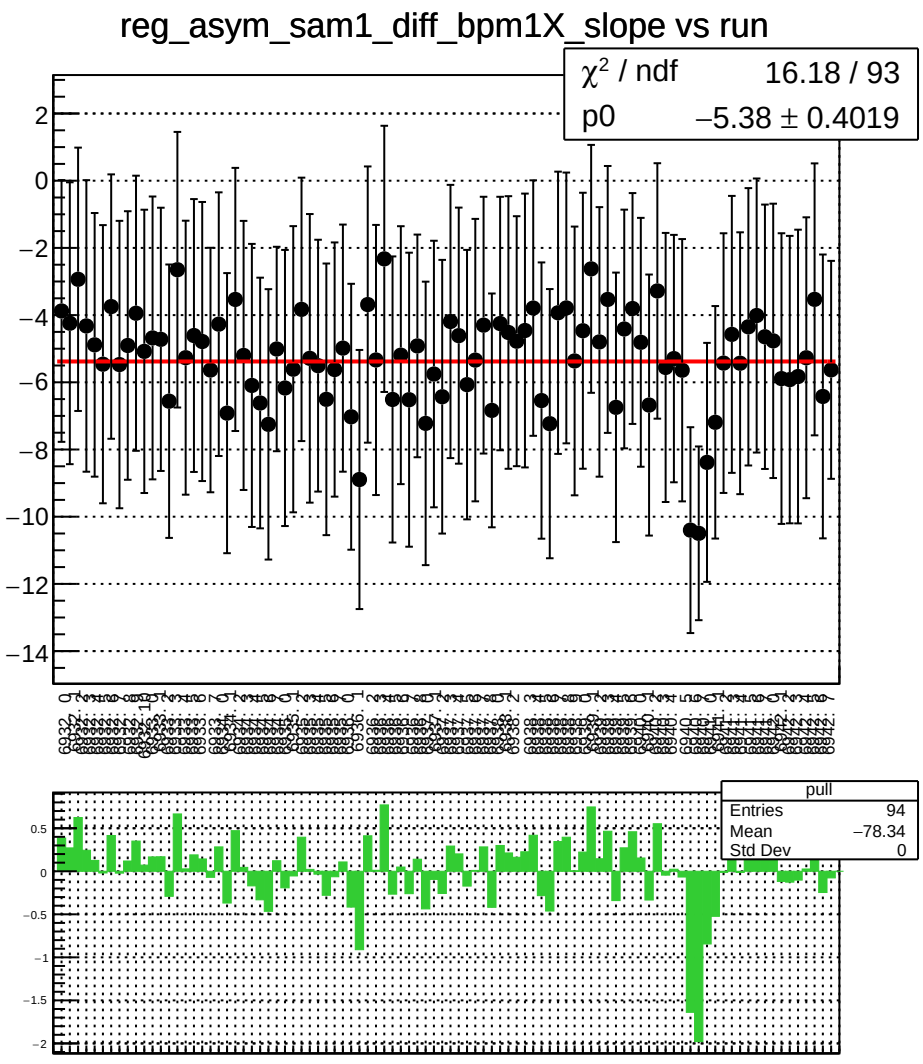

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.22 / 93
p0 0.02136 ± 0.04108
pull
Entries 94
Mean −2330
Std Dev 0

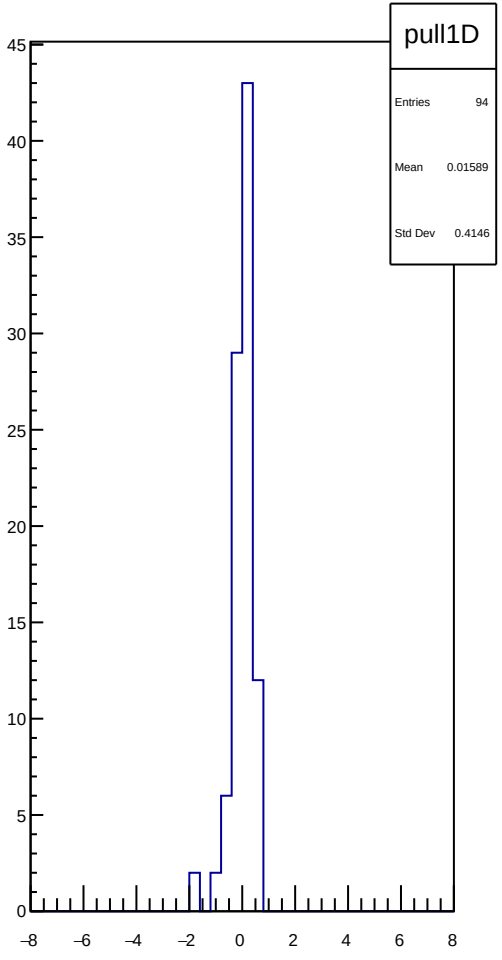

pull1D
Entries 94
Mean −0.001202
Std Dev 0.9122

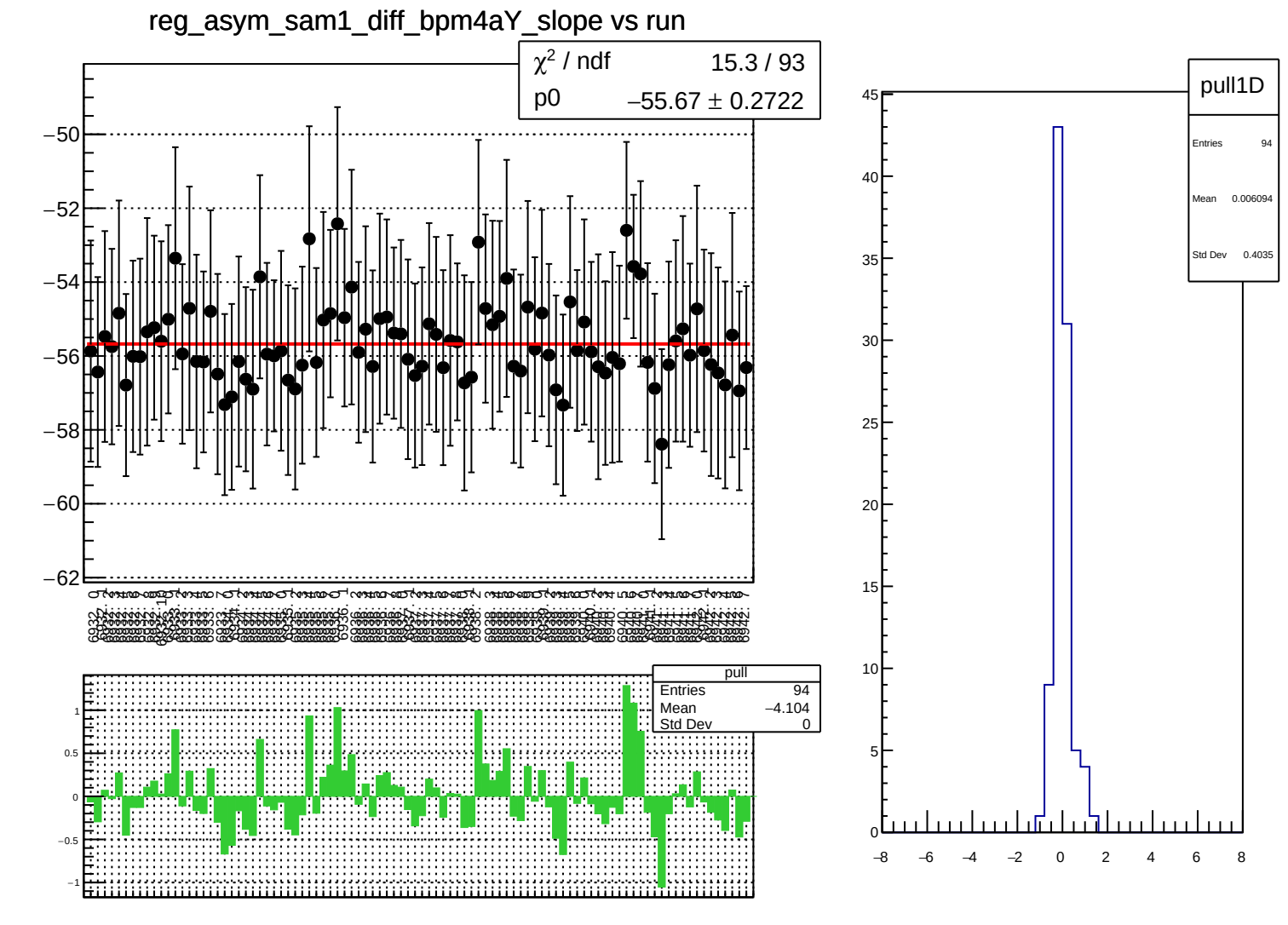

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.558e+04 / 93
p0 38.19 ± 0.02905
80
70
60
50
40
30

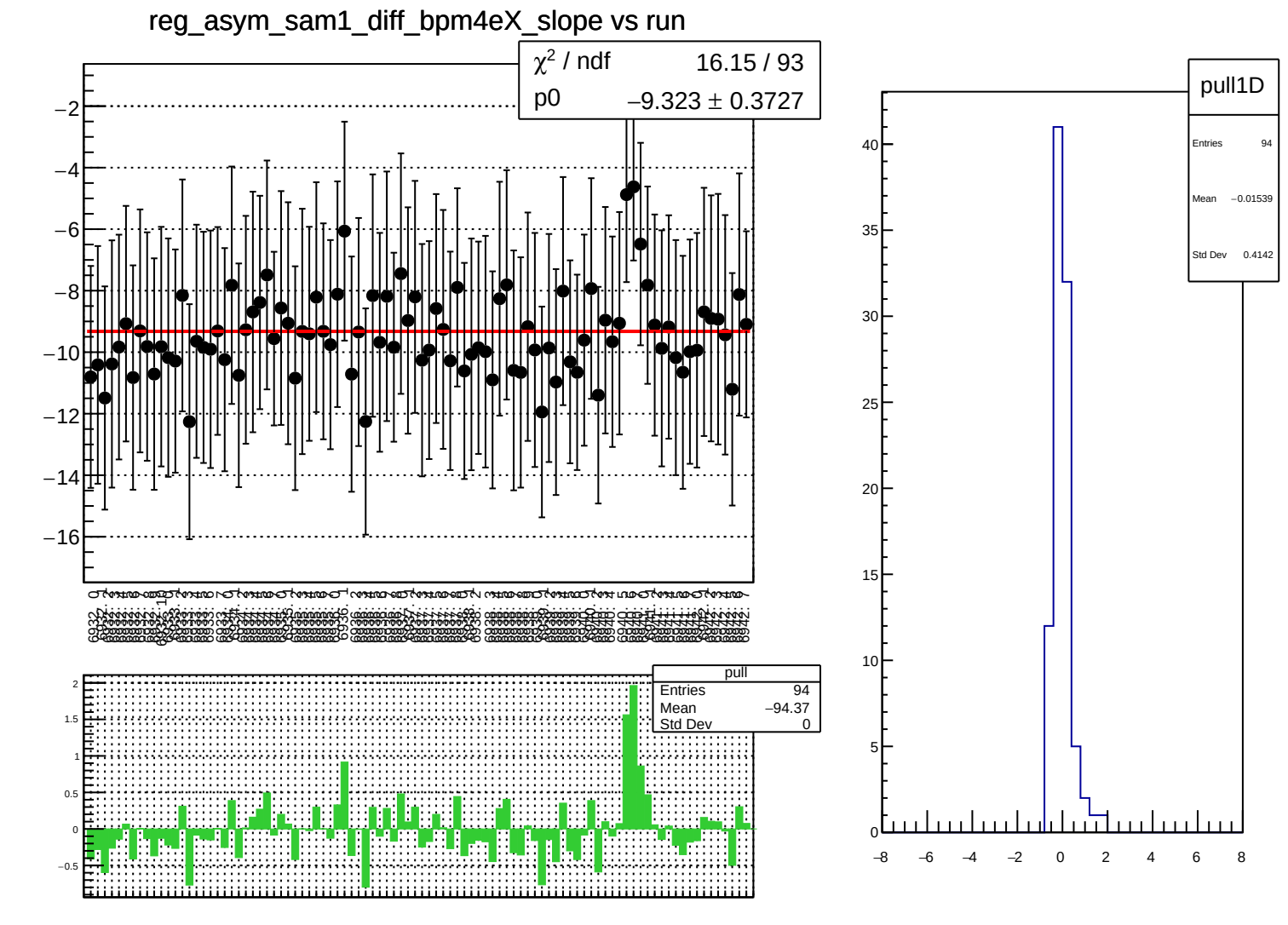

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 75.58 / 93
p0 2.545e−15 ± 1.533e−14
pull
Entries 94
Mean 49.01
Std Dev 29.54
pull1D
Entries 94
Mean −0.09623
Std Dev 0.8915

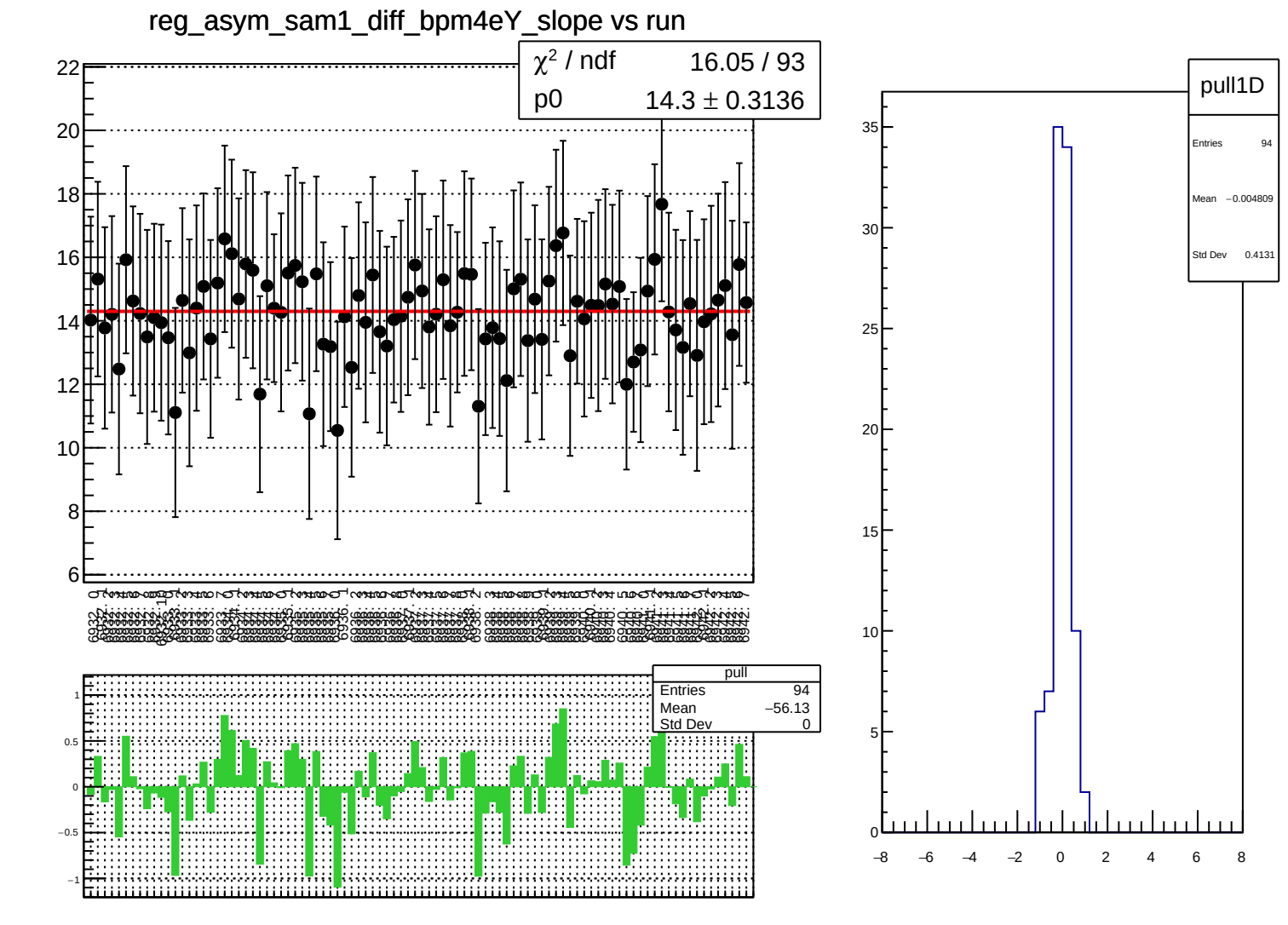

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.499e+05 / 93
p0 1.036e−11 ± 1.084e−14
0.1
0.08
0.06
0.04
0.02

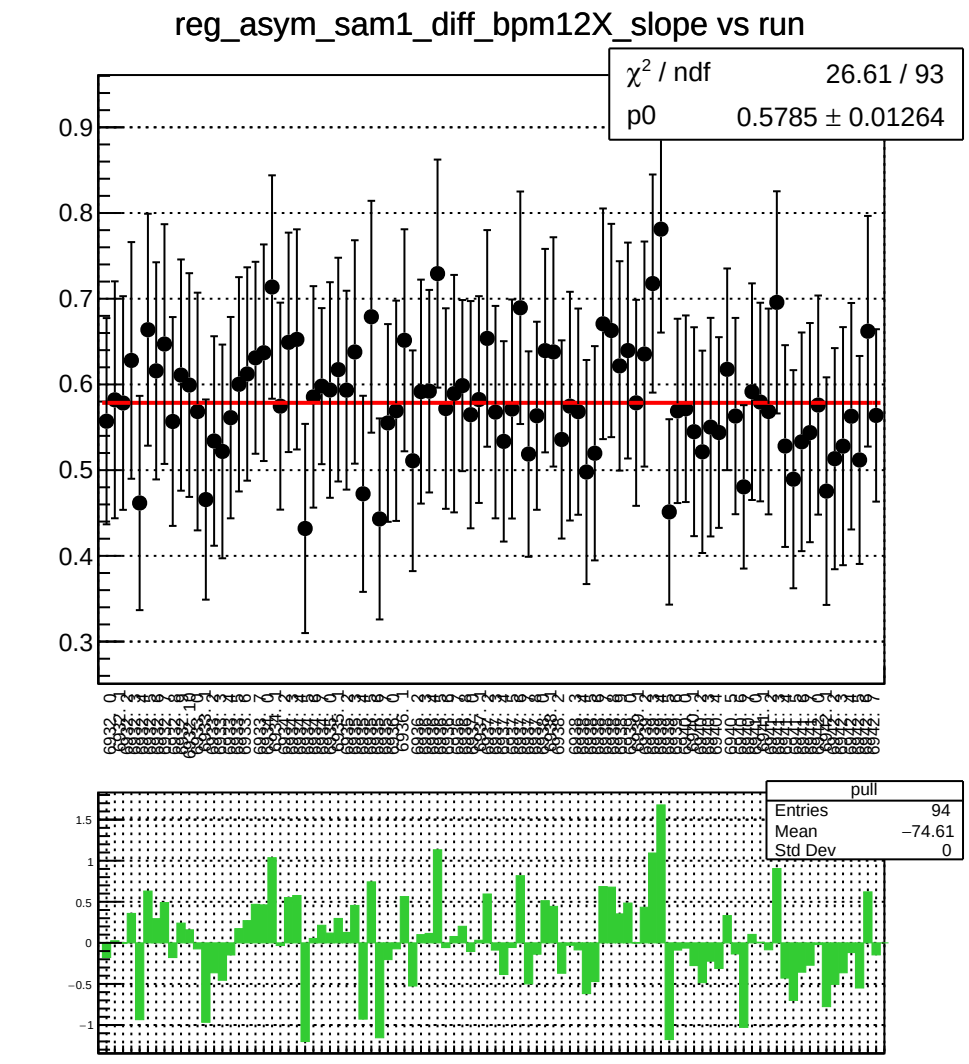

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 16.18 / 93
p0 −5.38 ± 0.4019
pull
Entries 94
Mean −78.34
Std Dev 0

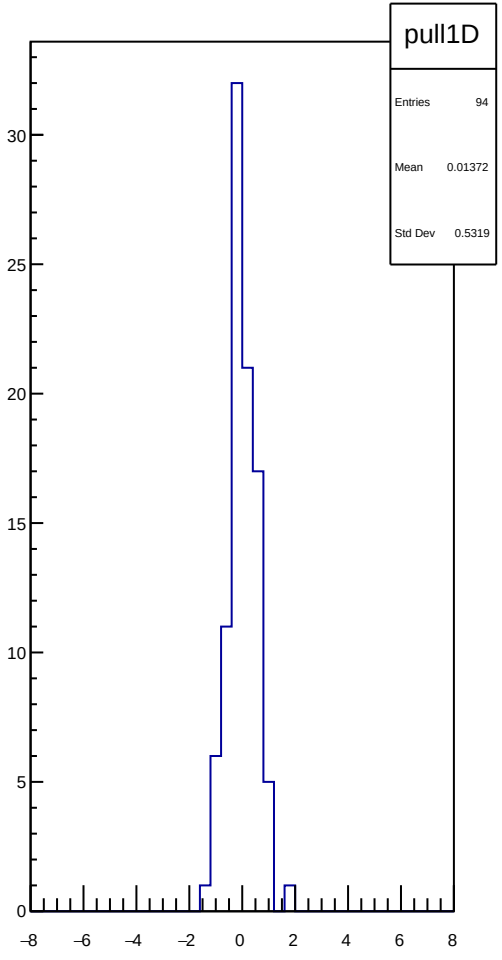

pull1D
Entries 94
Mean 0.01589
Std Dev 0.4146

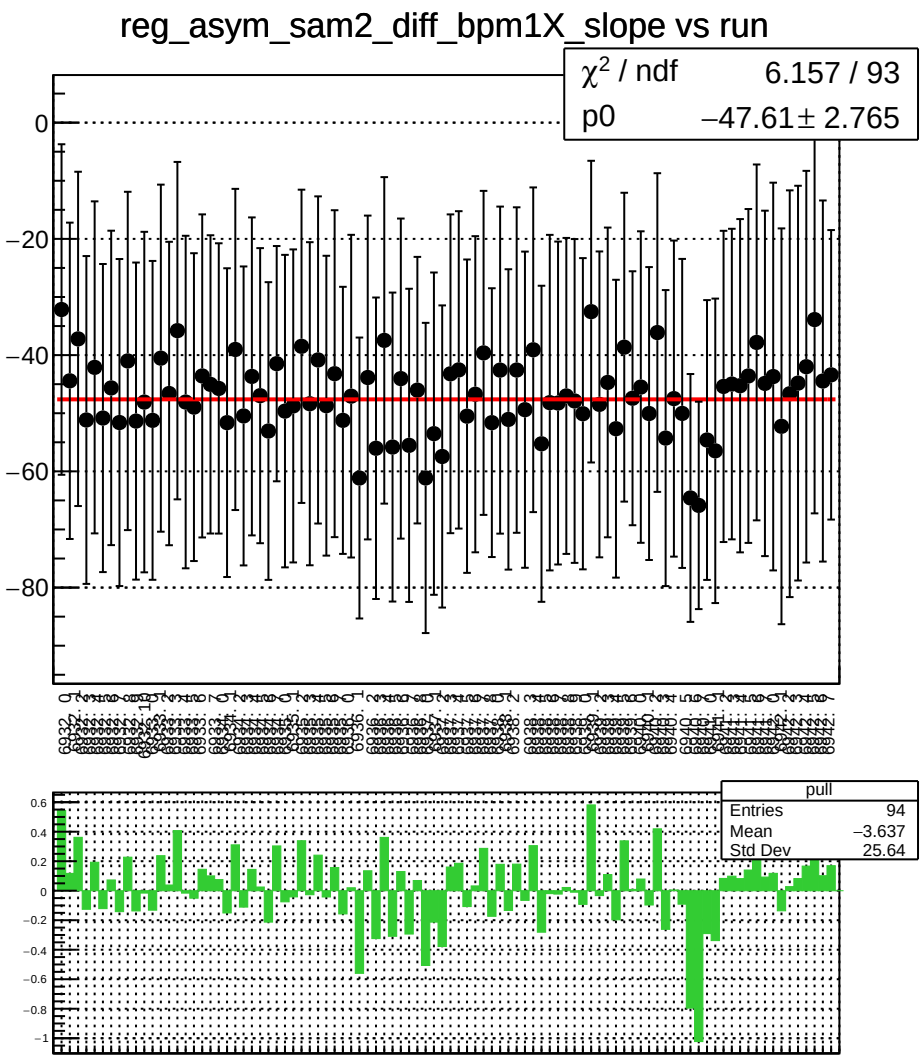

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 15.3 / 93
p0 −55.67 ± 0.2722
pull
Entries 94
Mean −4.104
Std Dev 0
pull1D
Entries 94
Mean 0.006094
Std Dev 0.4035

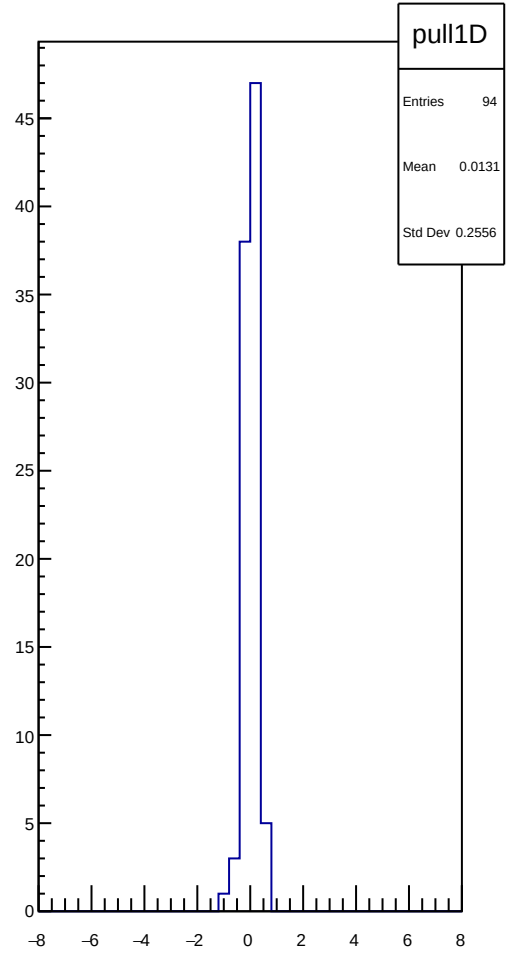

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 16.15 / 93
p0 −9.323 ± 0.3727
pull
Entries 94
Mean −94.37
Std Dev 0
pull1D
Entries 94
Mean −0.01539
Std Dev 0.4142

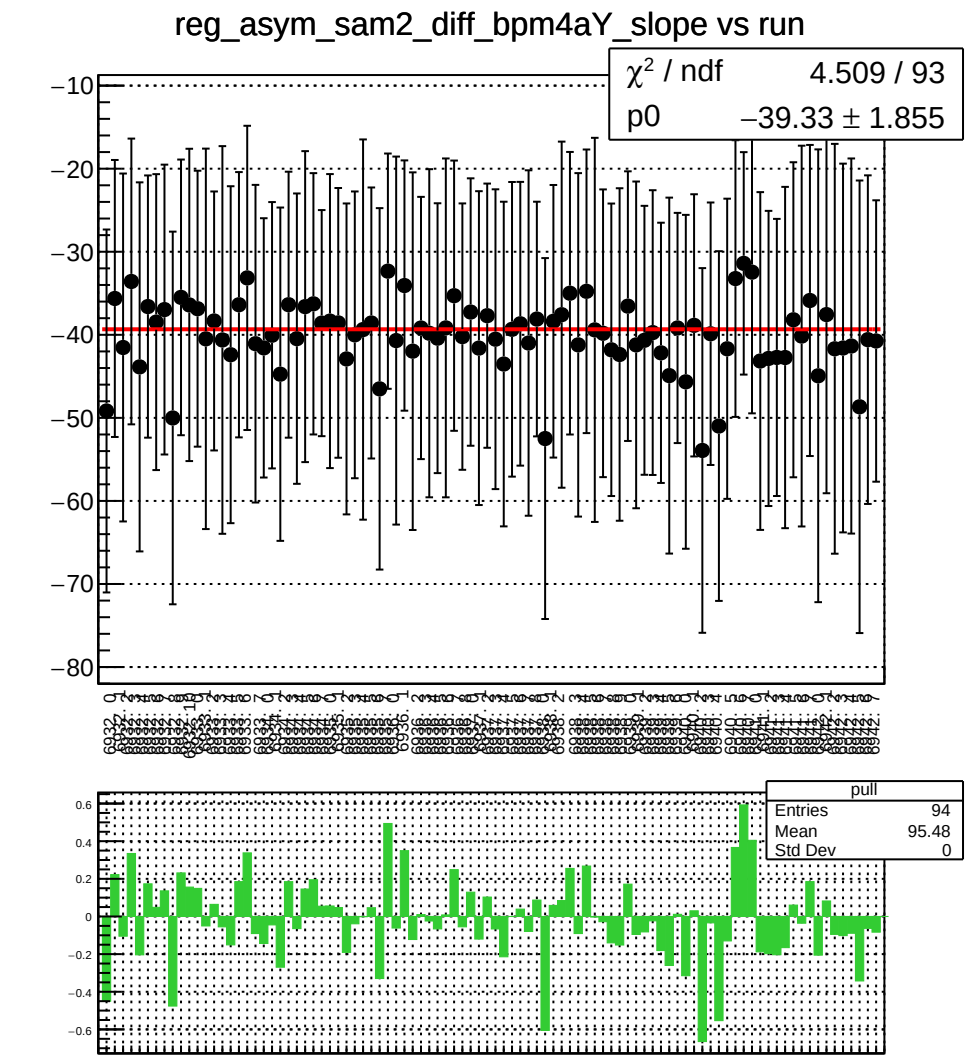

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 16.05 / 93
p0 14.3 ± 0.3136
pull
Entries 94
Mean −56.13
Std Dev 0
pull1D
Entries 94
Mean −0.004809
Std Dev 0.4131

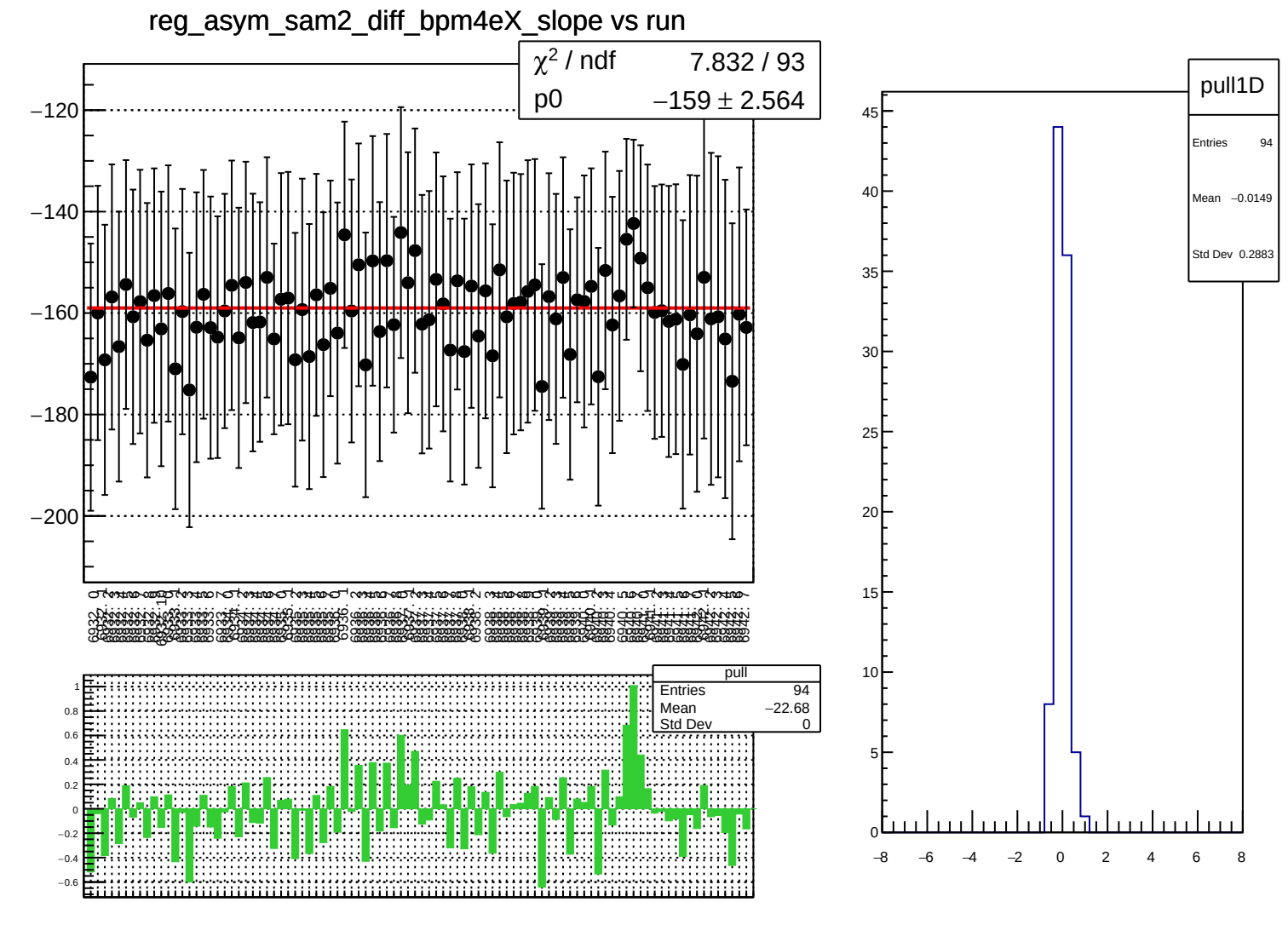

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 26.61 / 93
p0 0.5785 ± 0.01264
pull
Entries 94
Mean −74.61
Std Dev 0

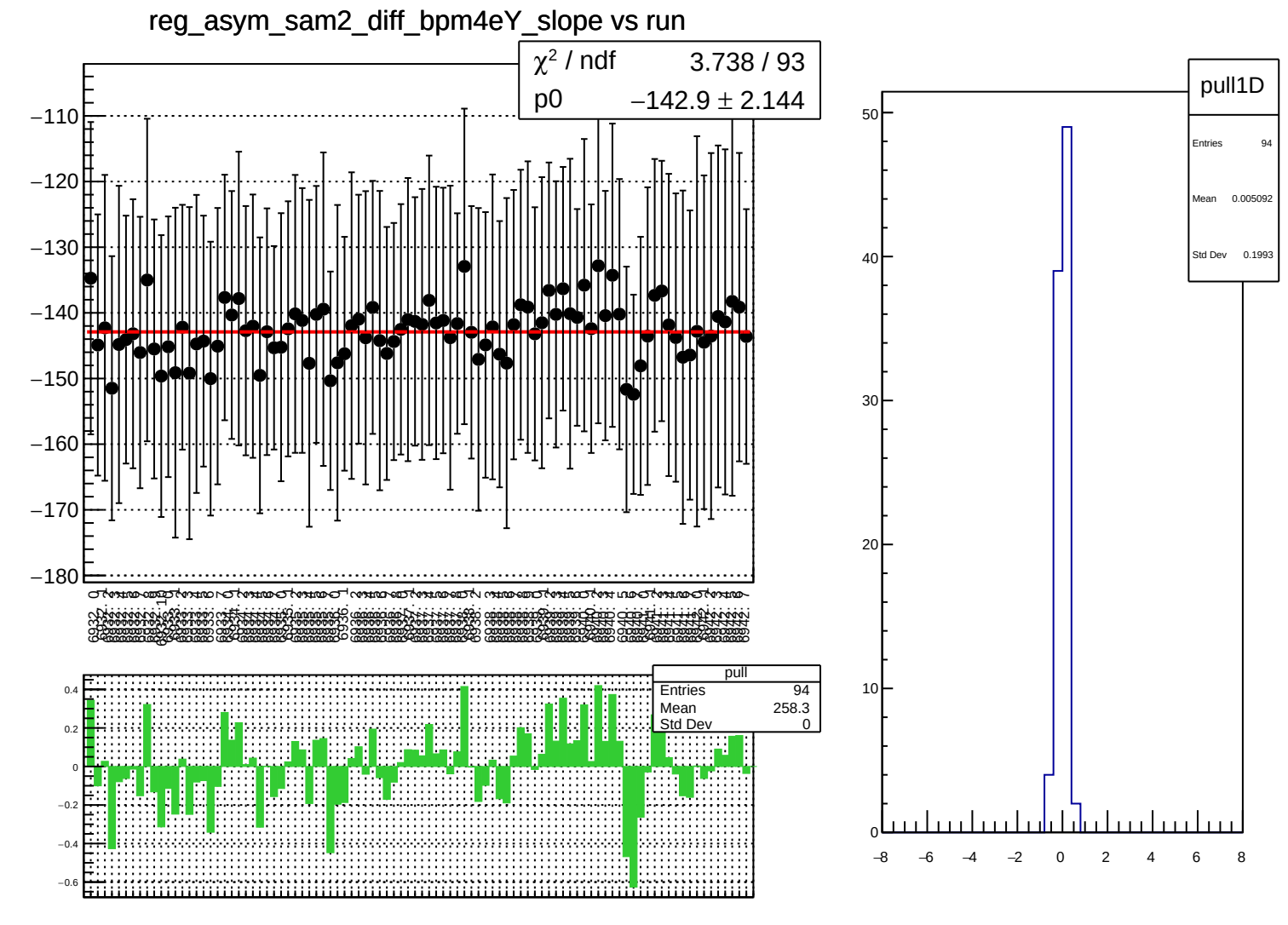

pull1D
Entries 94
Mean 0.01372
Std Dev 0.5319

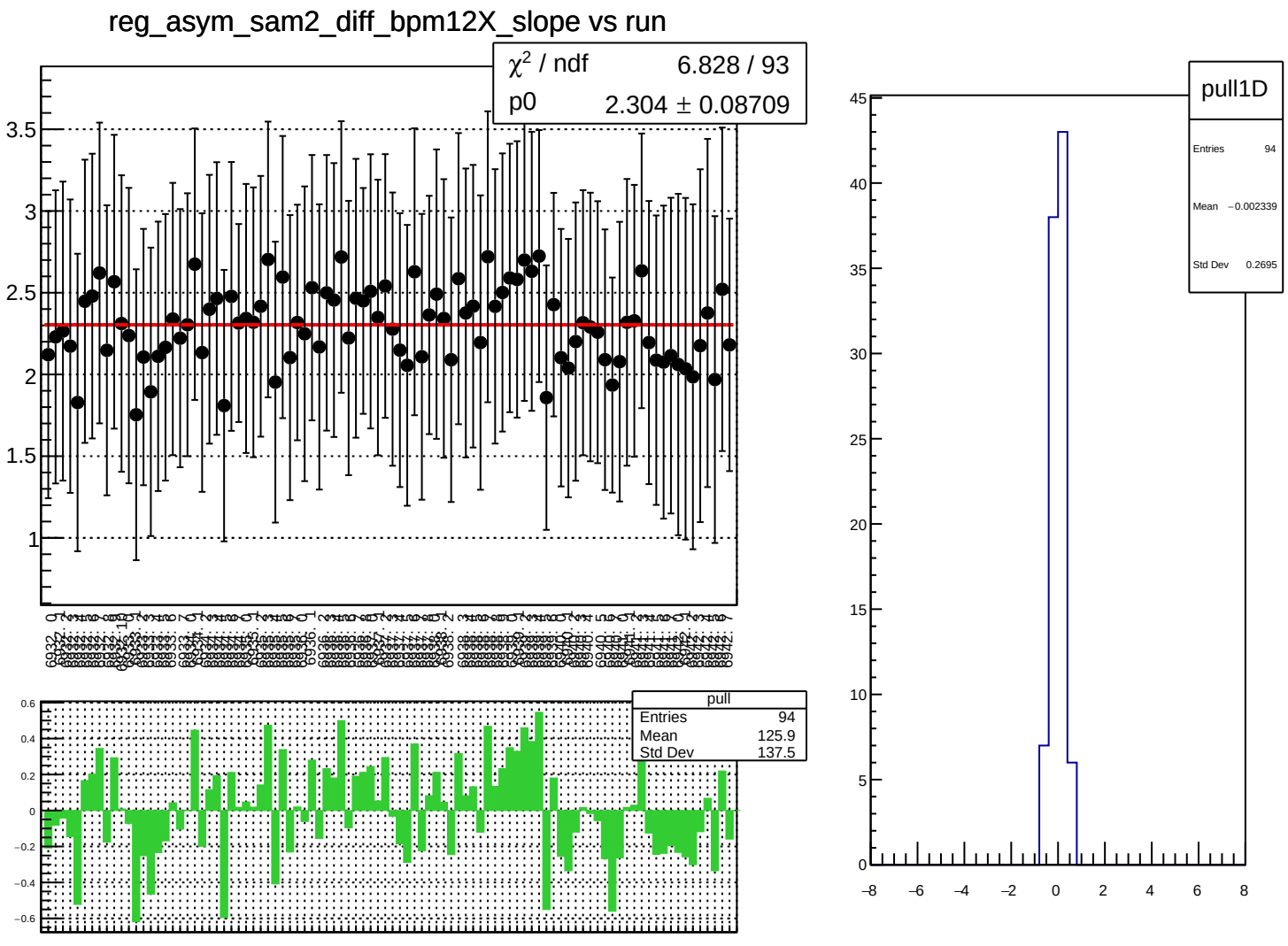

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 6.157 / 93
p0 −47.61± 2.765
pull
Entries 94
Mean −3.637
Std Dev 25.64

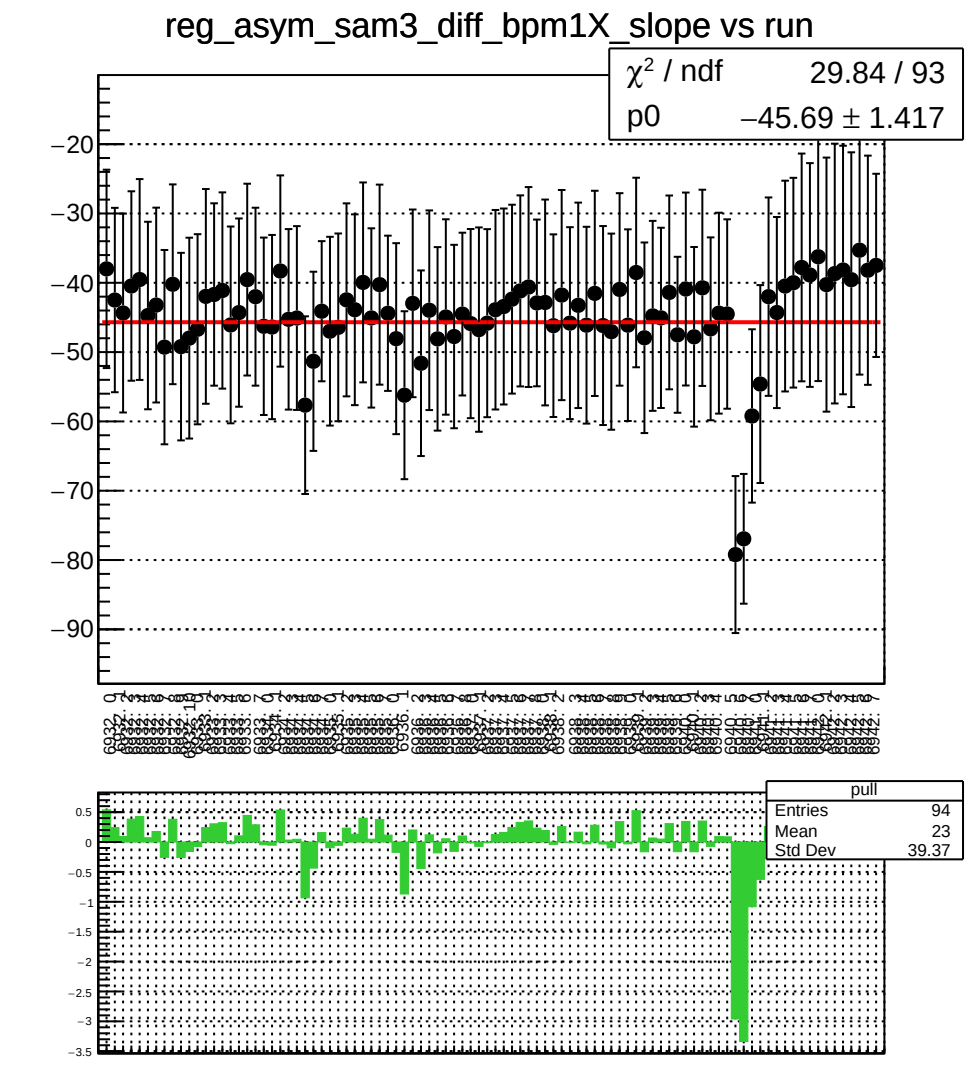

pull1D
Entries 94
Mean 0.0131
Std Dev 0.2556

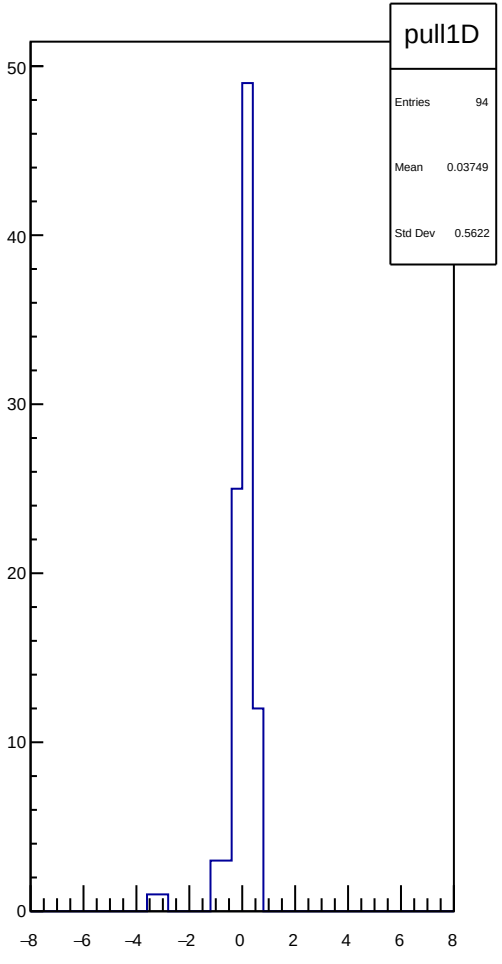

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 4.509 / 93
p0 −39.33 ± 1.855
pull
Entries 94
Mean 95.48
Std Dev 0
pull1D
Entries 94
Mean −0.01907
Std Dev 0.2182

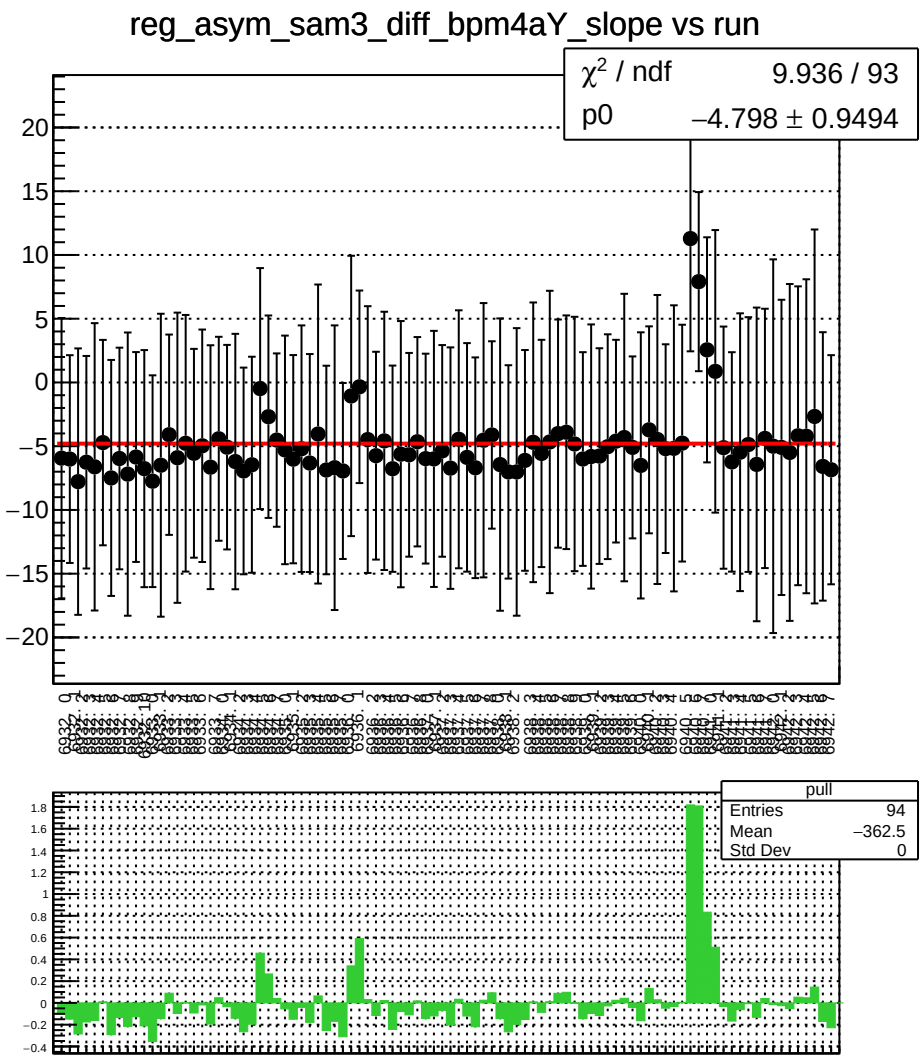

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 7.832 / 93
p0 −159 ± 2.564
−120
−140
−160
−180
−200
pull
Entries 94
Mean −22.68
Std Dev 0
pull1D
Entries 94
Mean −0.0149
Std Dev 0.2883

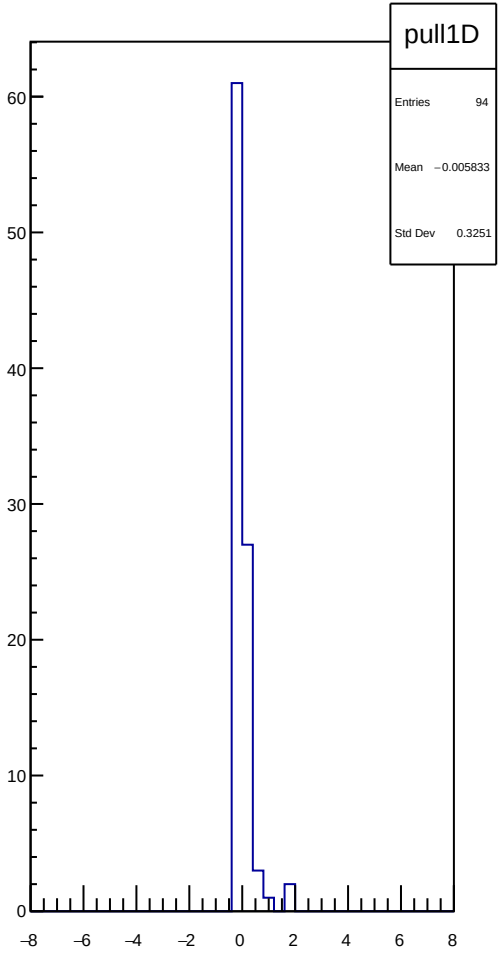

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 3.738 / 93
p0 −142.9 ± 2.144
−110
−120
−130
−140
−150
−160
−170
−180
pull
Entries 94
Mean 258.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.005092
Std Dev 0.1993
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

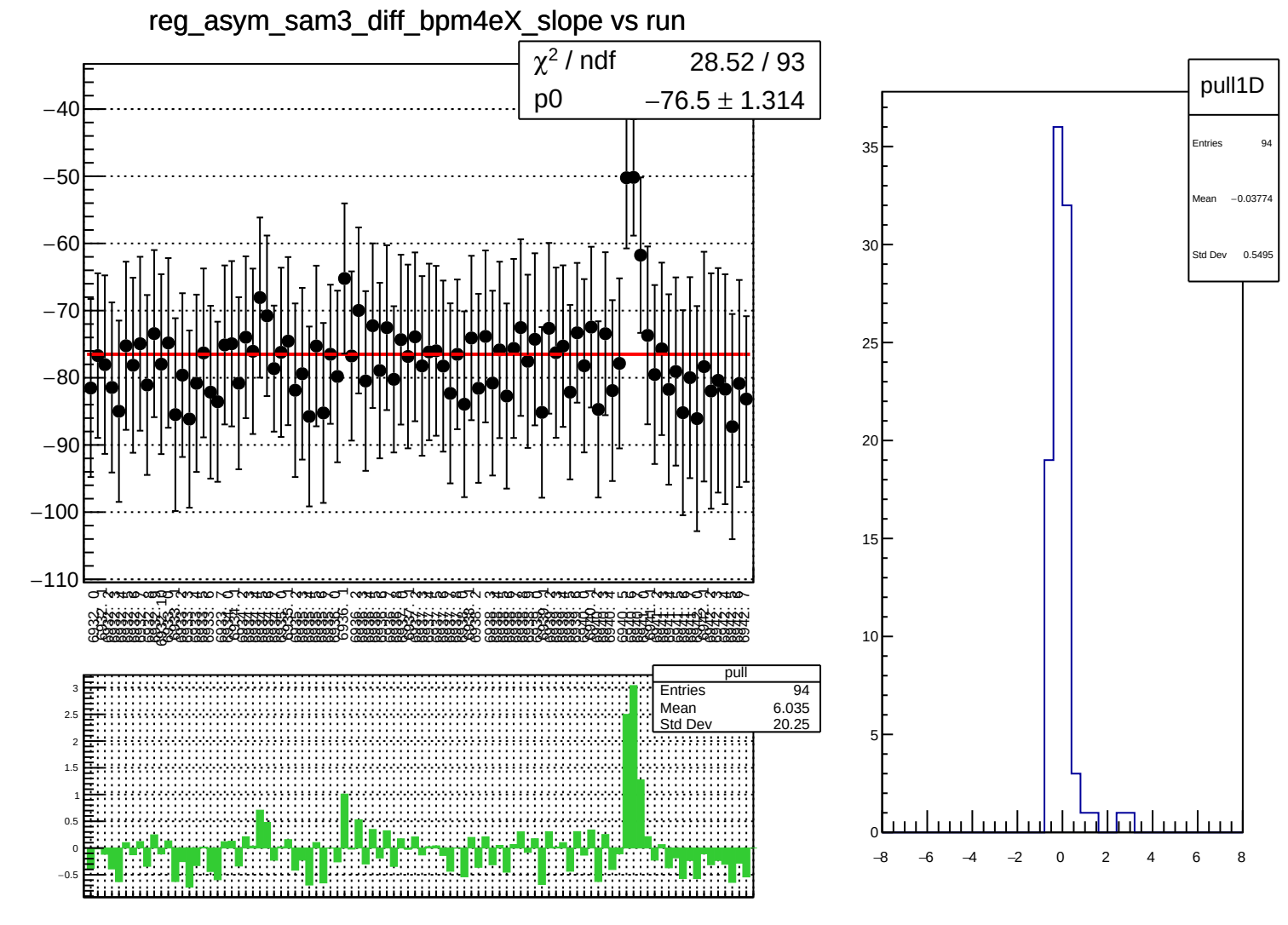

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.828 / 93
p0 2.304 ± 0.08709
pull
Entries 94
Mean 125.9
Std Dev 137.5
pull1D
Entries 94
Mean −0.002339
Std Dev 0.2695

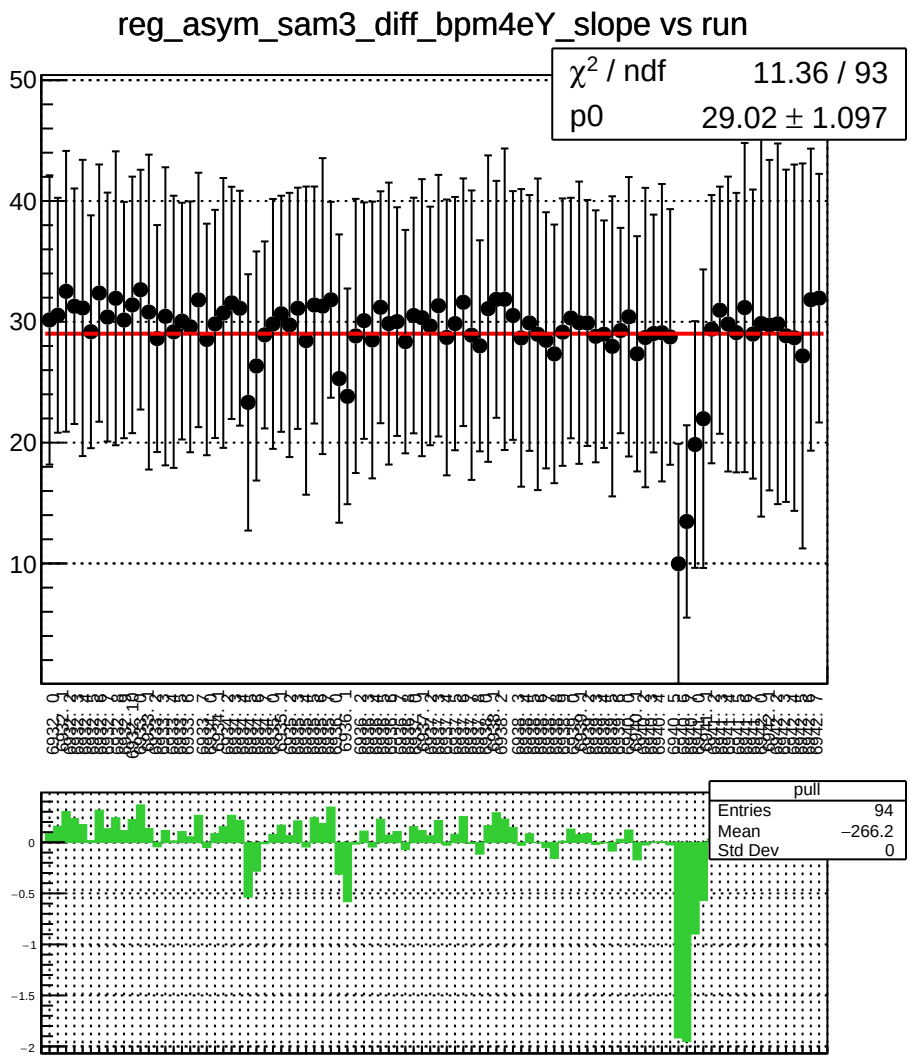

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 29.84 / 93
p0 −45.69 ± 1.417
pull
Entries 94
Mean 23
Std Dev 39.37

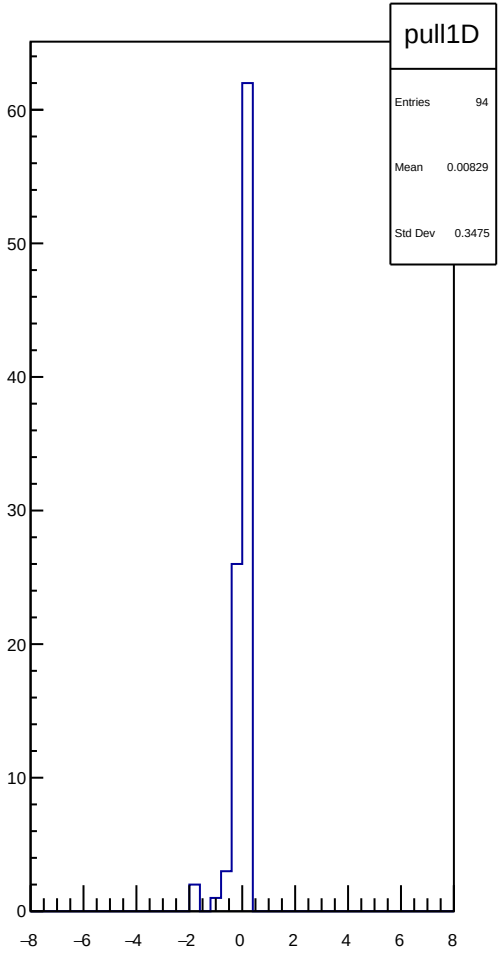

pull1D
Entries 94
Mean 0.03749
Std Dev 0.5622

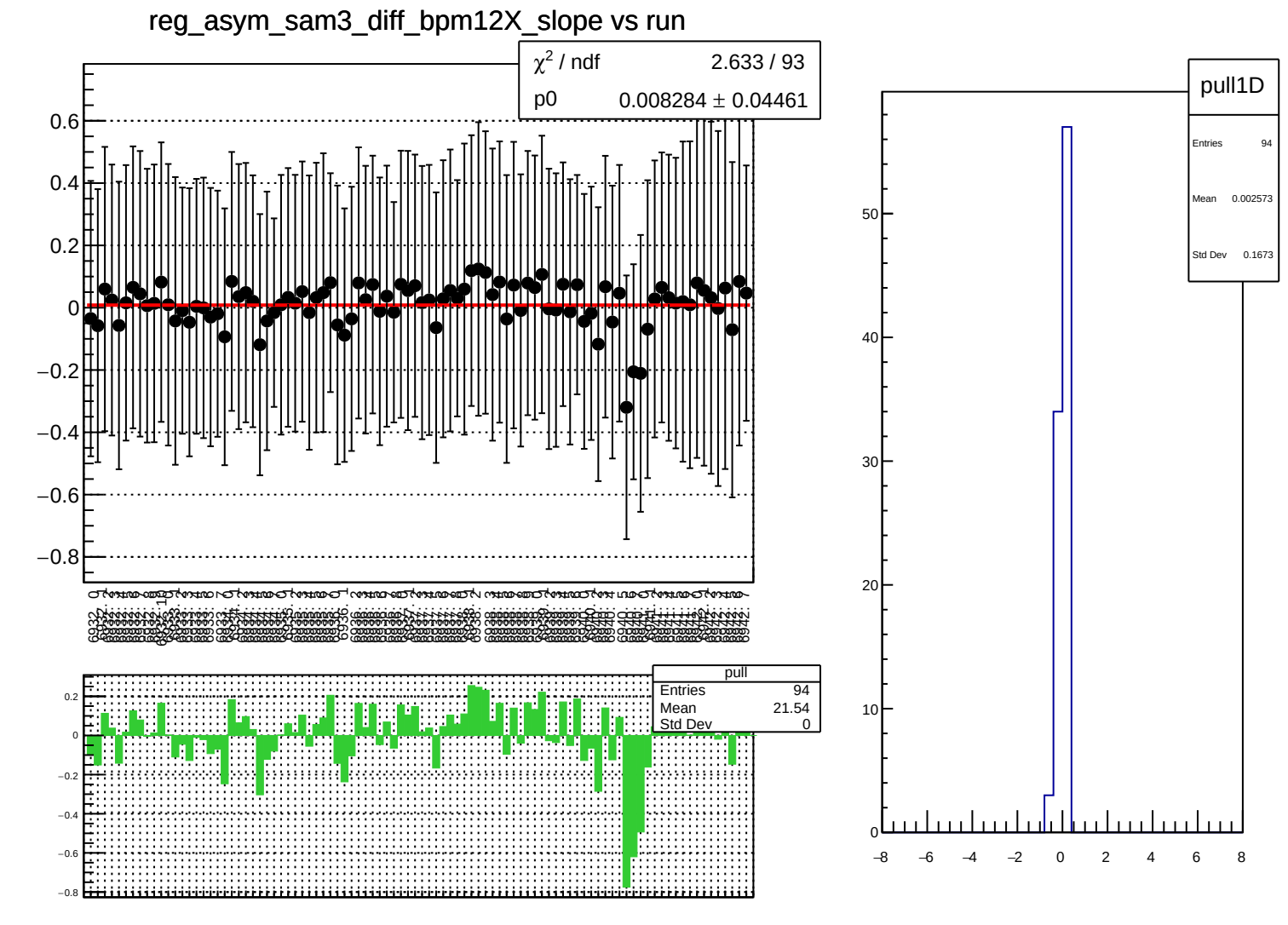

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 9.936 / 93
p0 −4.798 ± 0.9494
pull
Entries 94
Mean −362.5
Std Dev 0

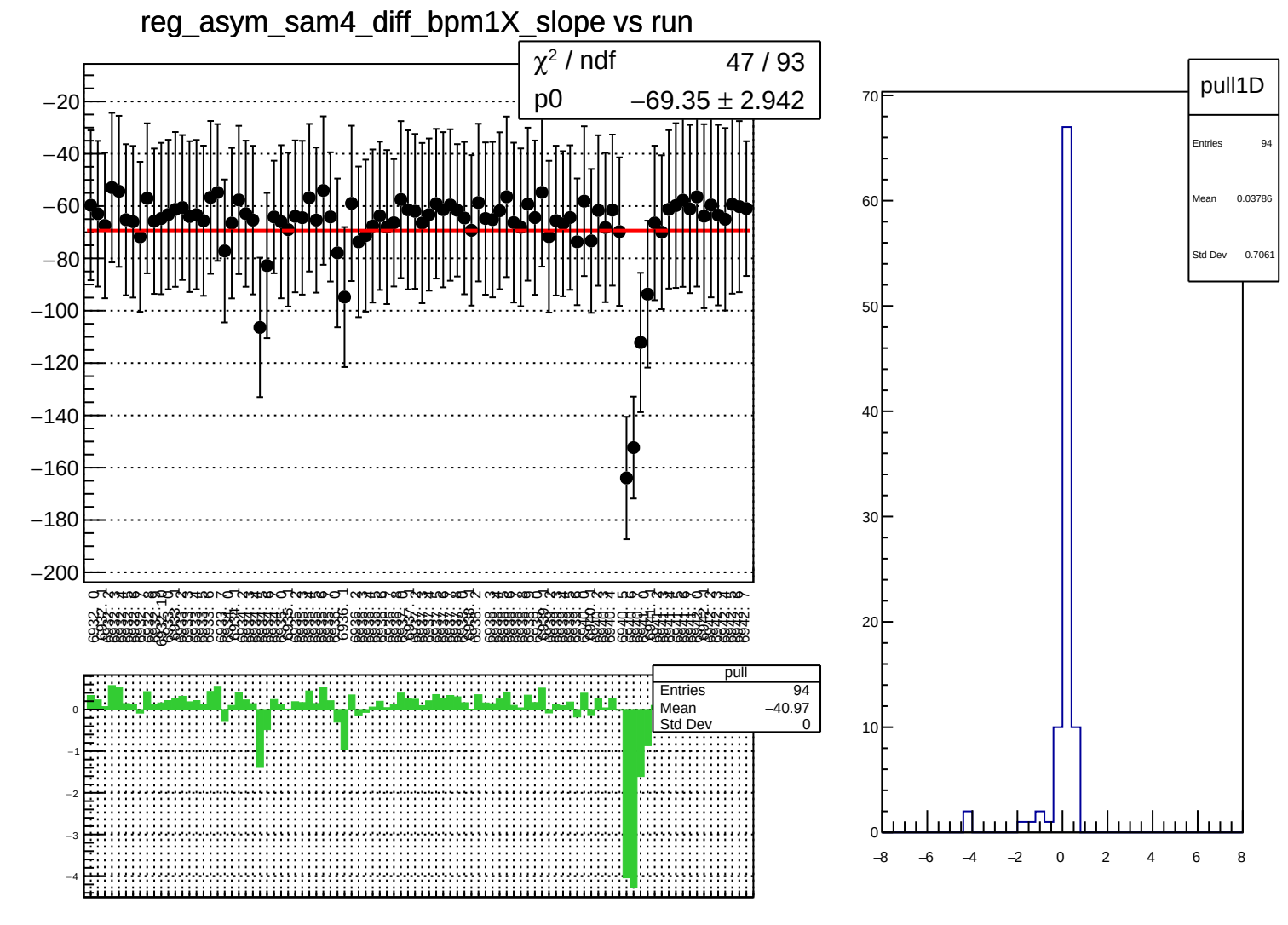

pull1D
Entries 94
Mean −0.005833
Std Dev 0.3251

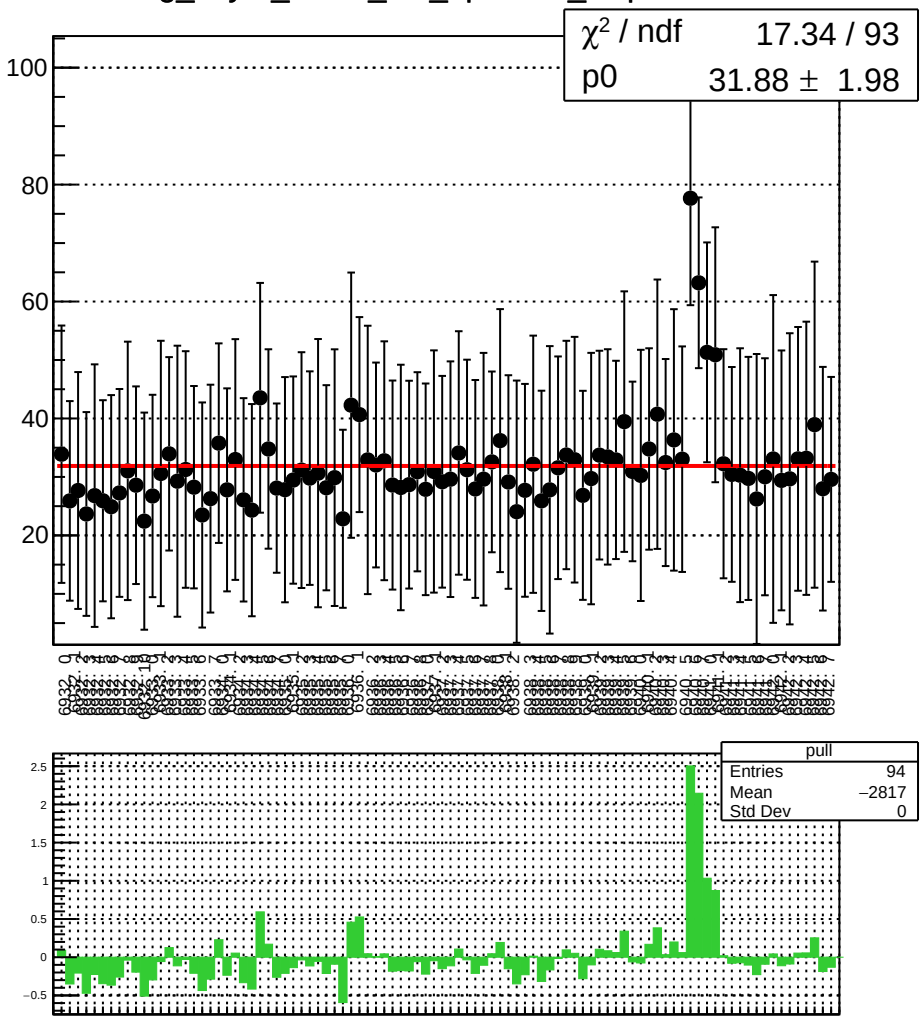

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 28.52 / 93
p0 −76.5 ± 1.314
pull
Entries 94
Mean 6.035
Std Dev 20.25
pull1D
Entries 94
Mean −0.03774
Std Dev 0.5495

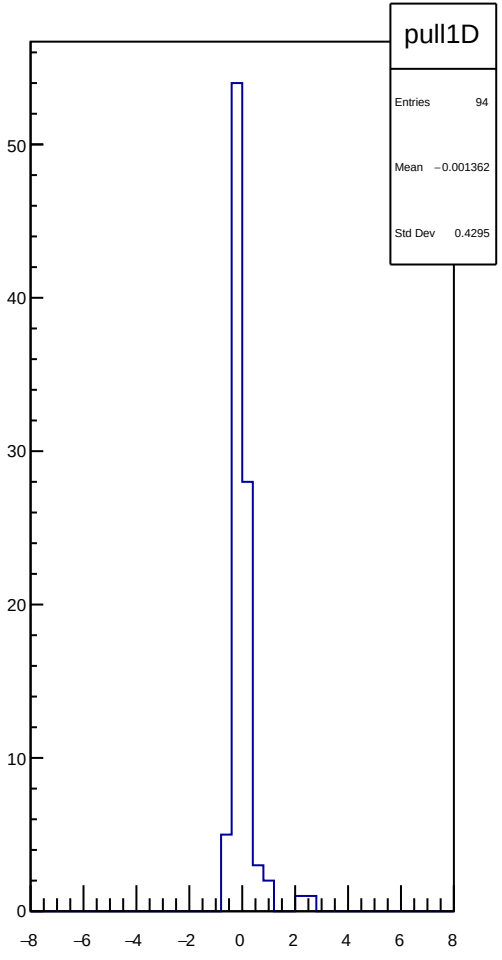

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 11.36 / 93
p0 29.02 ± 1.097
pull
Entries 94
Mean −266.2
Std Dev 0

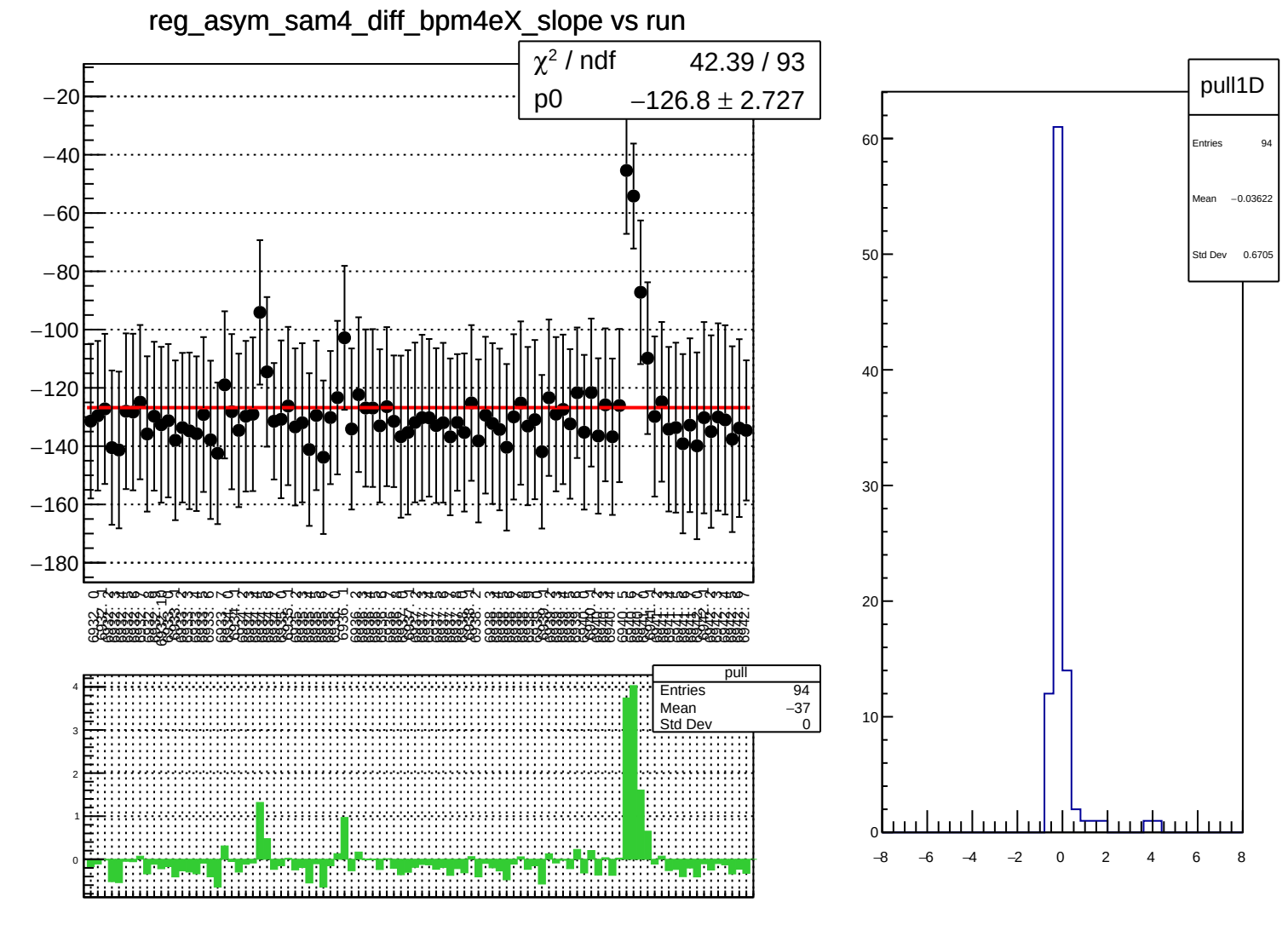

pull1D
Entries 94
Mean 0.00829
Std Dev 0.3475

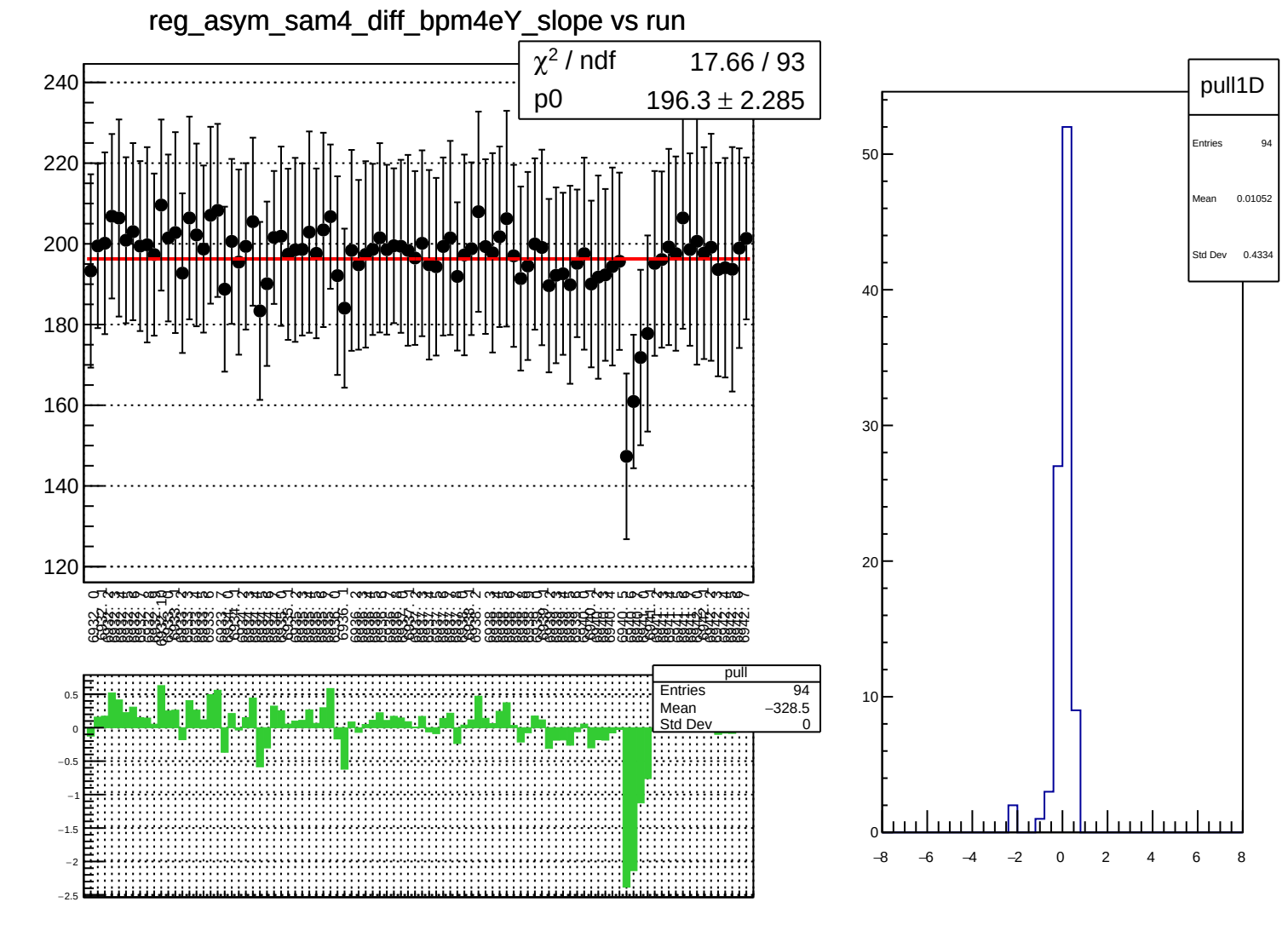

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.633 / 93
p0 0.008284 ± 0.04461
pull
Entries 94
Mean 21.54
Std Dev 0
pull1D
Entries 94
Mean 0.002573
Std Dev 0.1673

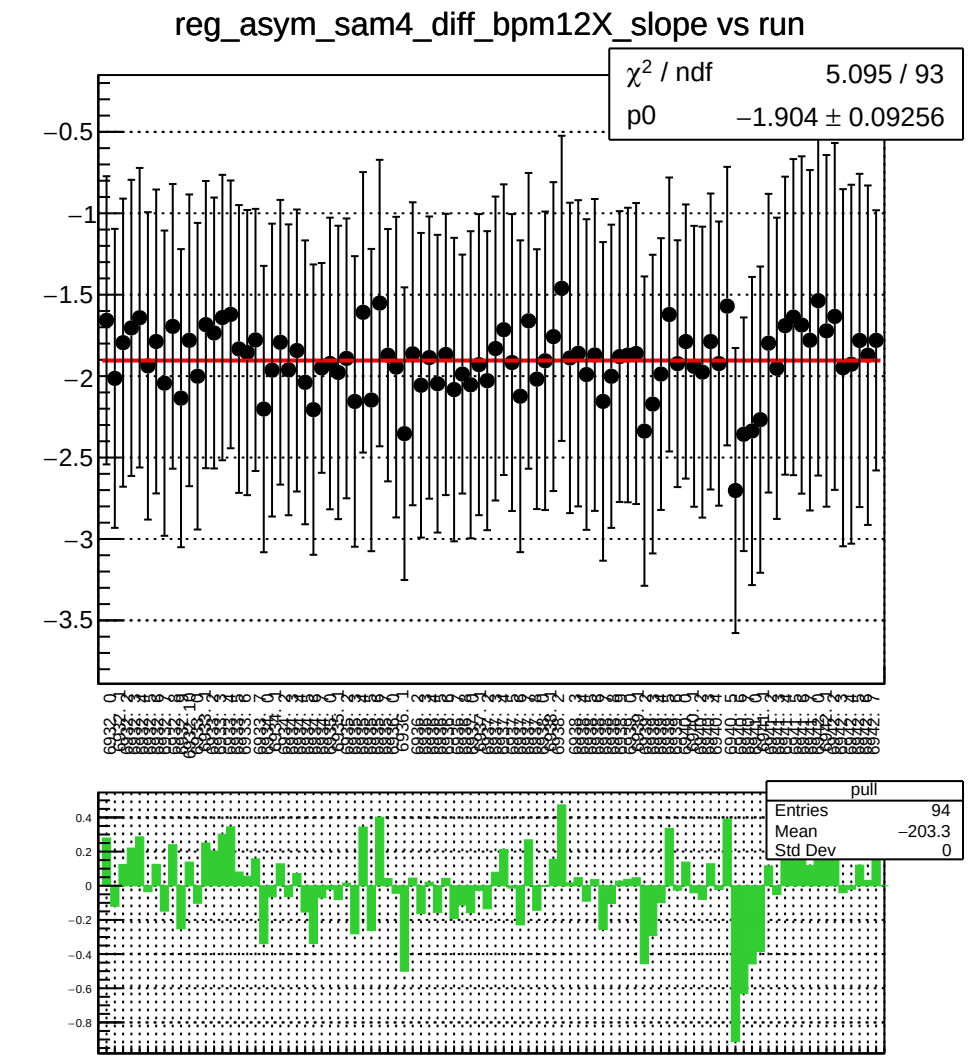

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 47 / 93
p0 −69.35 ± 2.942
pull
Entries 94
Mean −40.97
Std Dev 0
pull1D
Entries 94
Mean 0.03786
Std Dev 0.7061

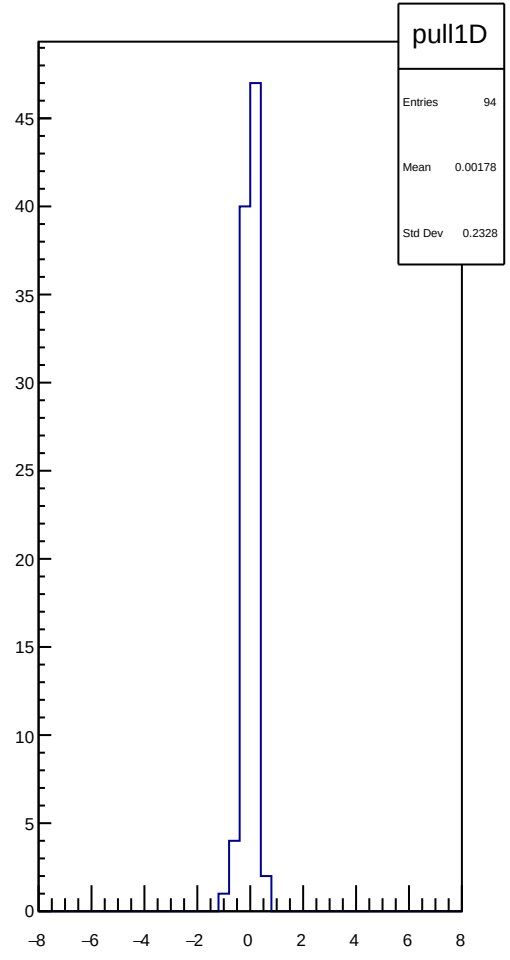

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 17.34 / 93
p0 31.88 ± 1.98
pull
Entries 94
Mean −2817
Std Dev 0

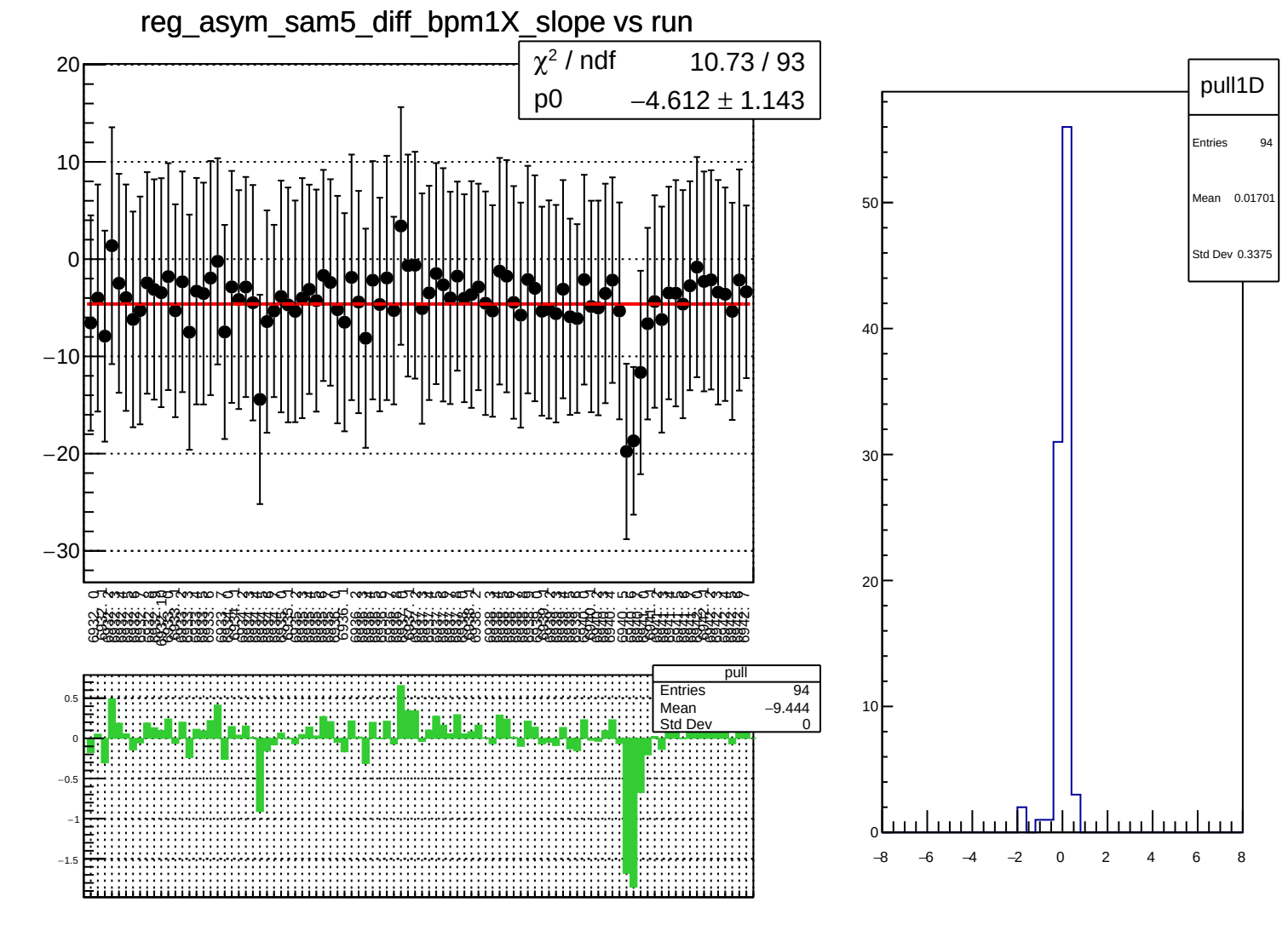

pull1D
Entries 94
Mean −0.001362
Std Dev 0.4295

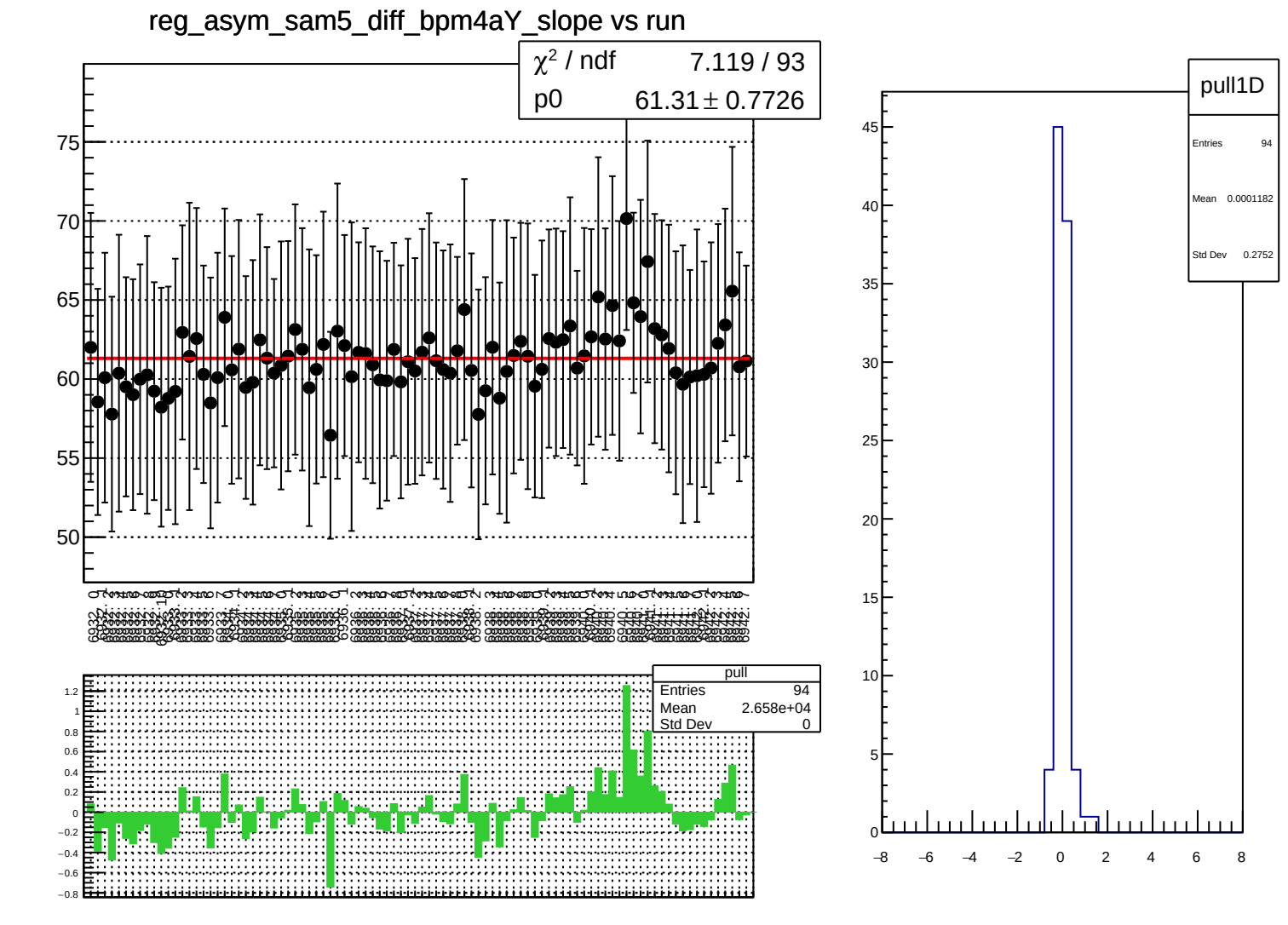

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 42.39 / 93
p0 −126.8 ± 2.727
pull
Entries 94
Mean −37
Std Dev 0
pull1D
Entries 94
Mean −0.03622
Std Dev 0.6705

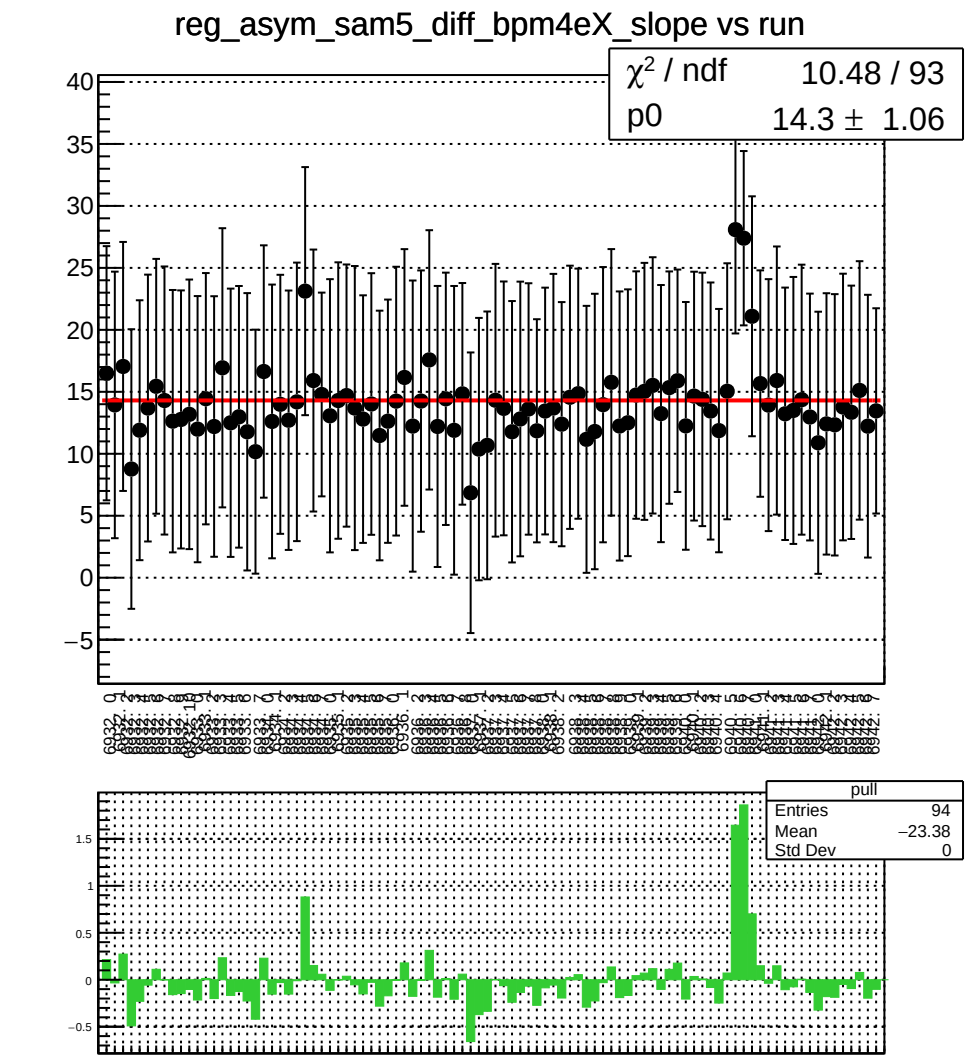

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 17.66 / 93
p0 196.3 ± 2.285
240
220
200
180
160
140
120
pull
Entries 94
Mean −328.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.01052
Std Dev 0.4334
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

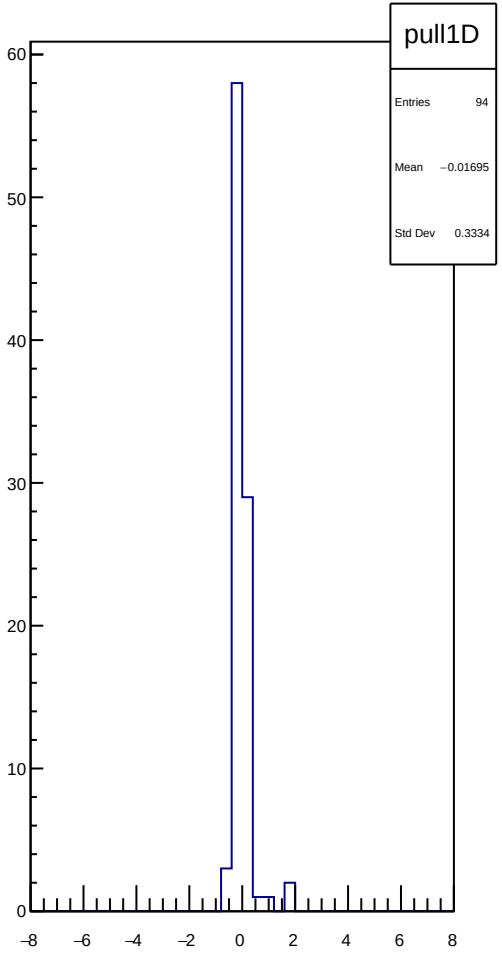

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 5.095 / 93
p0 −1.904 ± 0.09256
pull
Entries 94
Mean −203.3
Std Dev 0

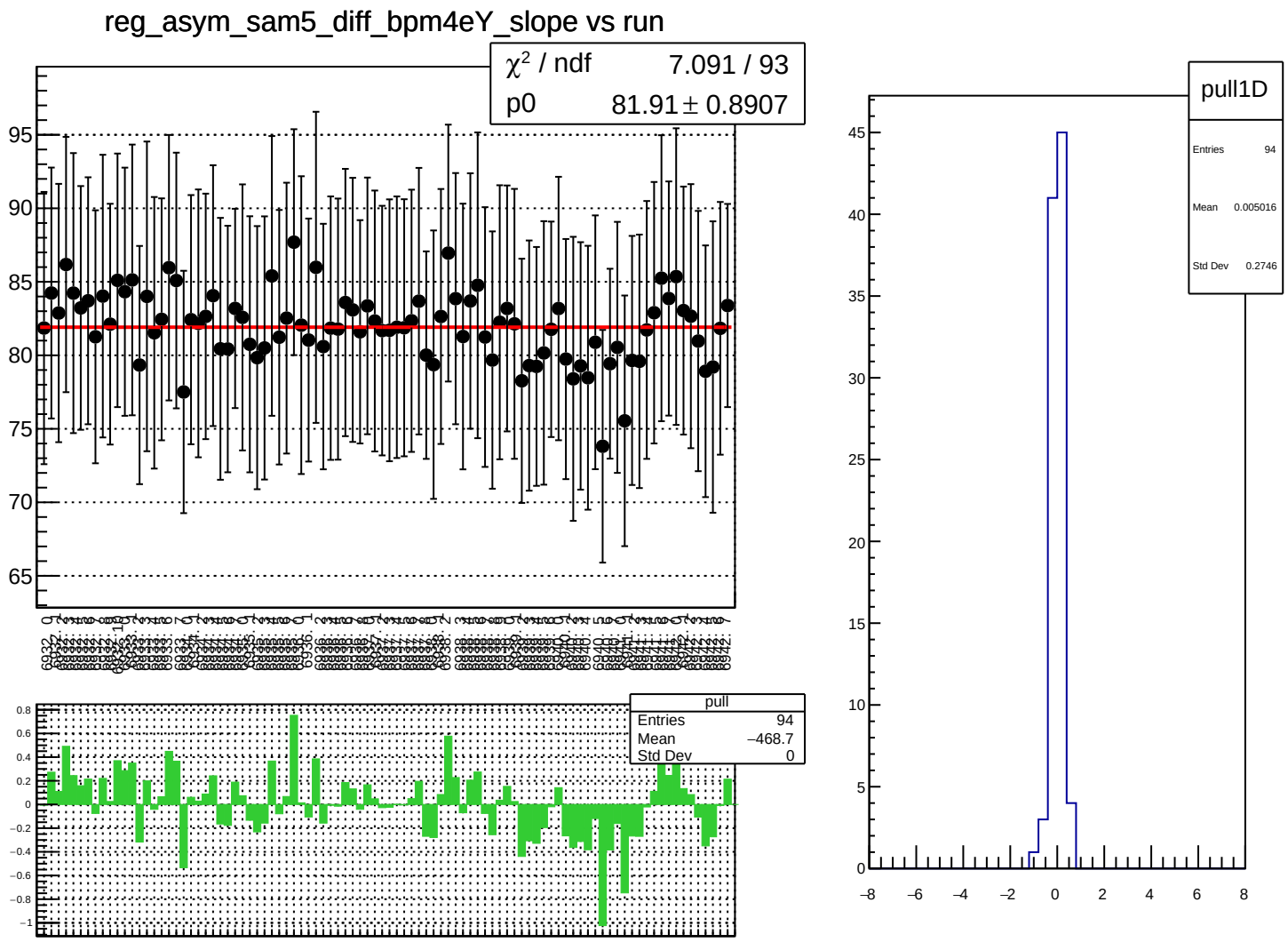

pull1D
Entries 94
Mean 0.00178
Std Dev 0.2328

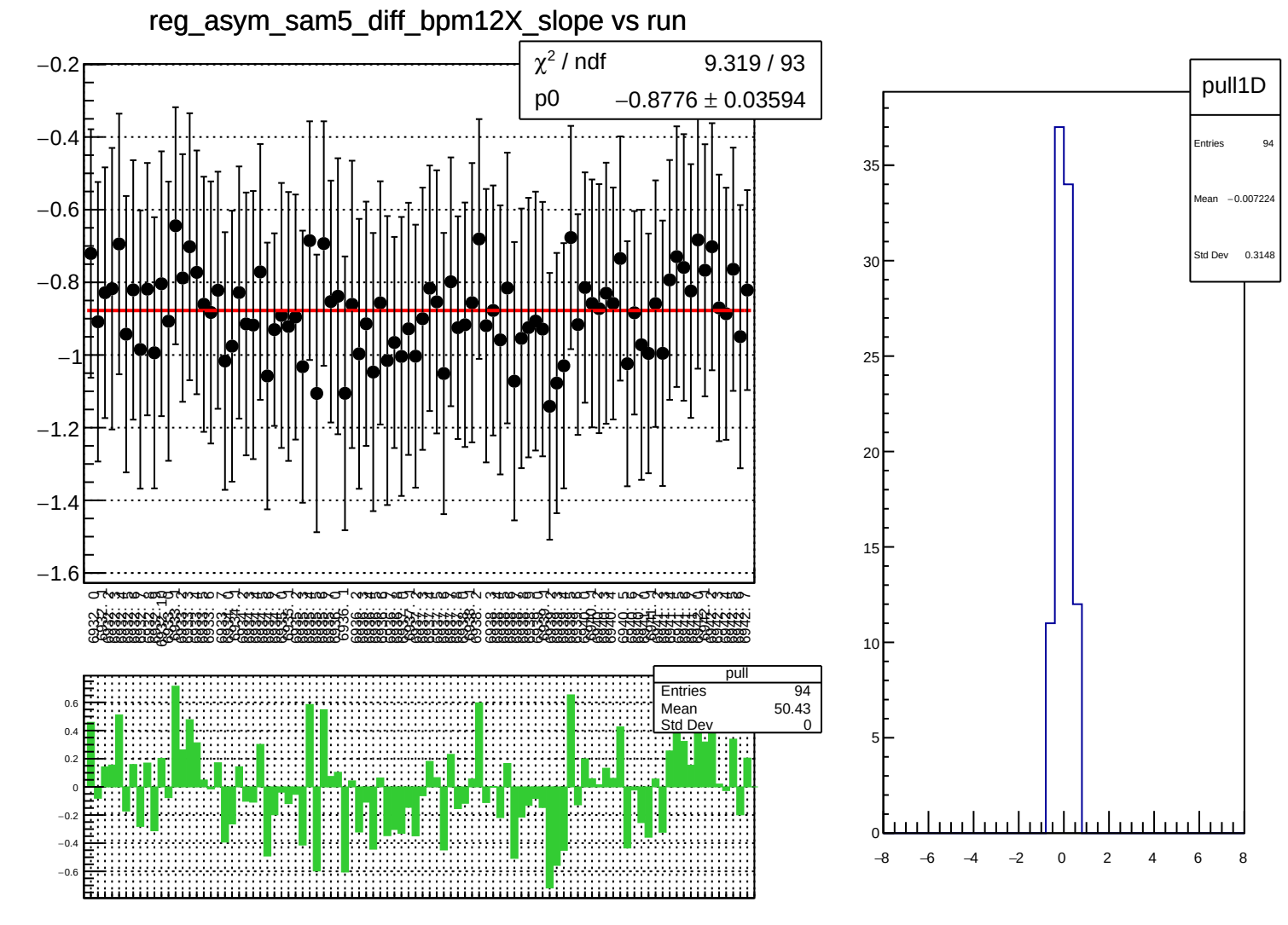

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 10.73 / 93
p0 −4.612 ± 1.143
pull
Entries 94
Mean −9.444
Std Dev 0
pull1D
Entries 94
Mean 0.01701
Std Dev 0.3375

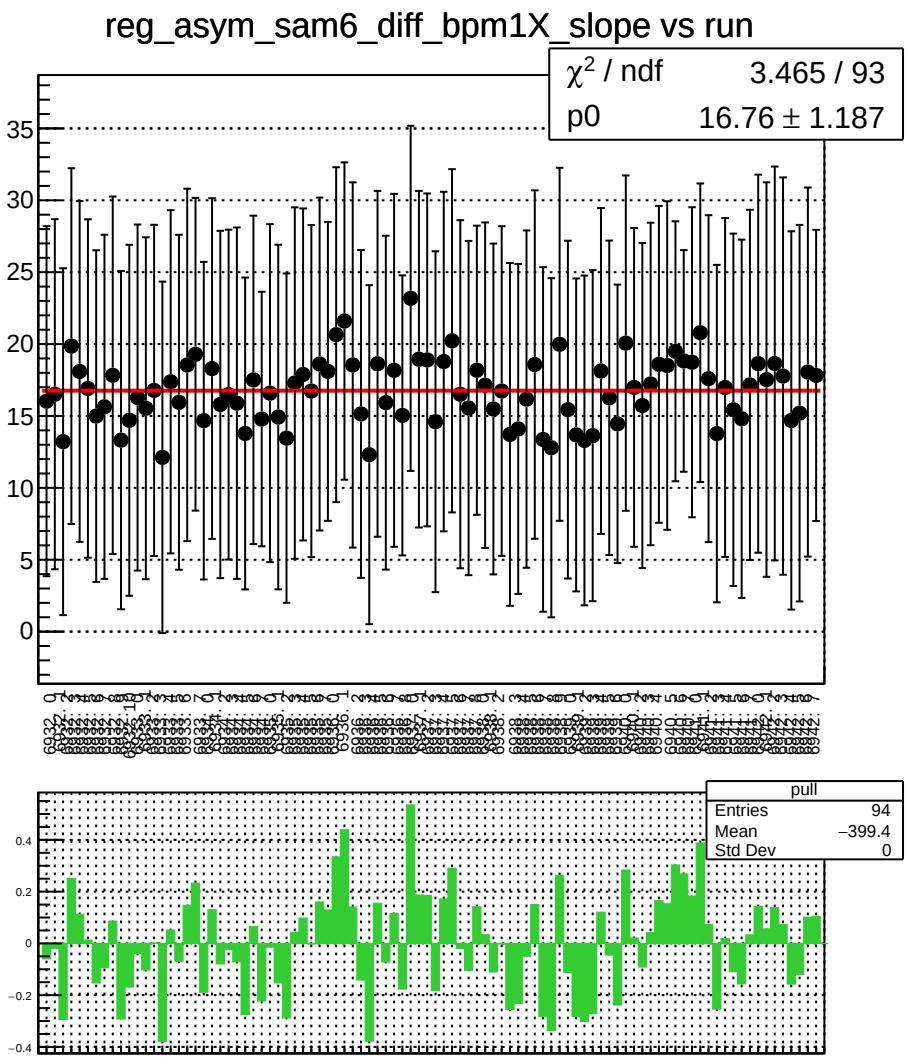

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 7.119 / 93
p0 61.31 ± 0.7726
pull
Entries 94
Mean 2.658e+04
Std Dev 0
pull1D
Entries 94
Mean 0.0001182
Std Dev 0.2752

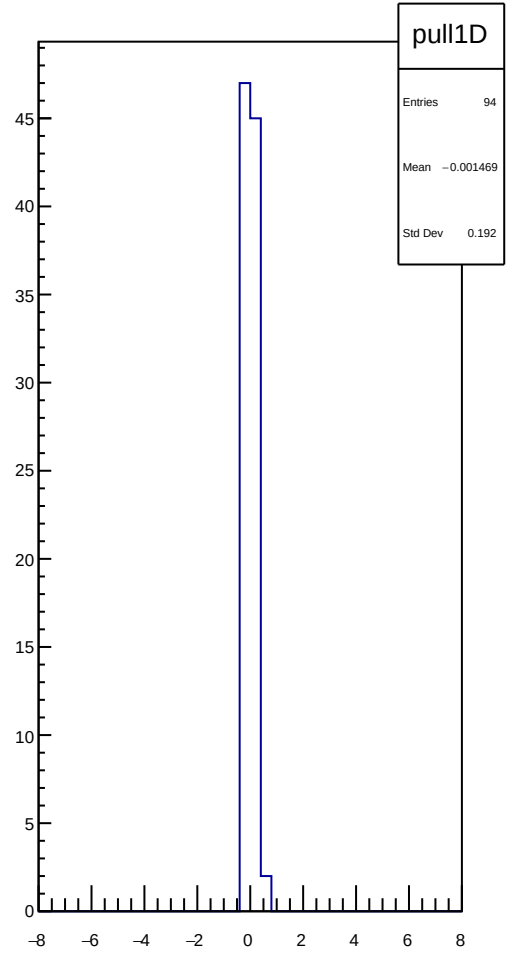

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 10.48 / 93
p0 14.3 ± 1.06
pull
Entries 94
Mean −23.38
Std Dev 0

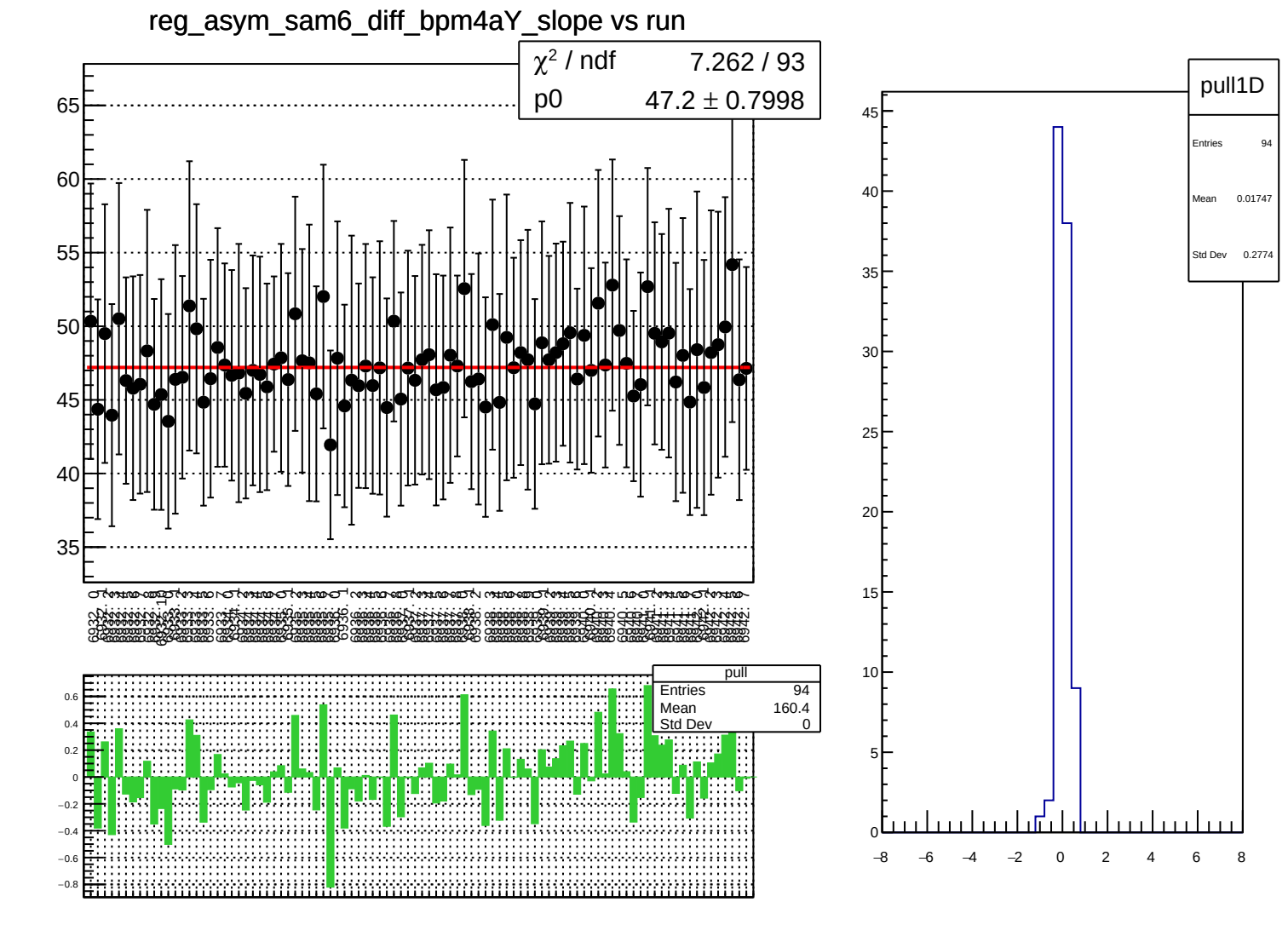

pull1D
Entries 94
Mean −0.01695
Std Dev 0.3334

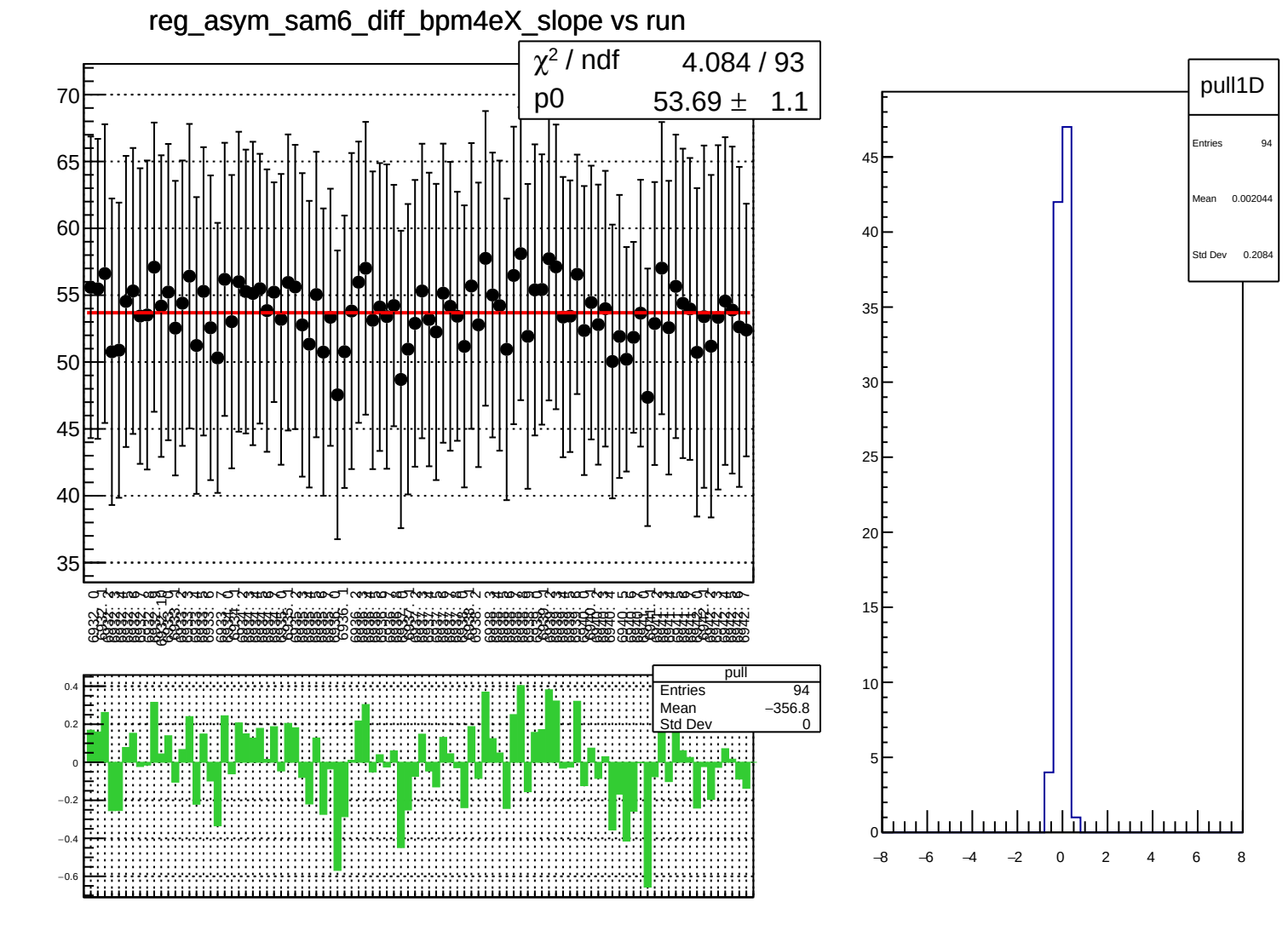

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 7.091 / 93
p0 81.91 ± 0.8907
pull
Entries 94
Mean −468.7
Std Dev 0
pull1D
Entries 94
Mean 0.005016
Std Dev 0.2746

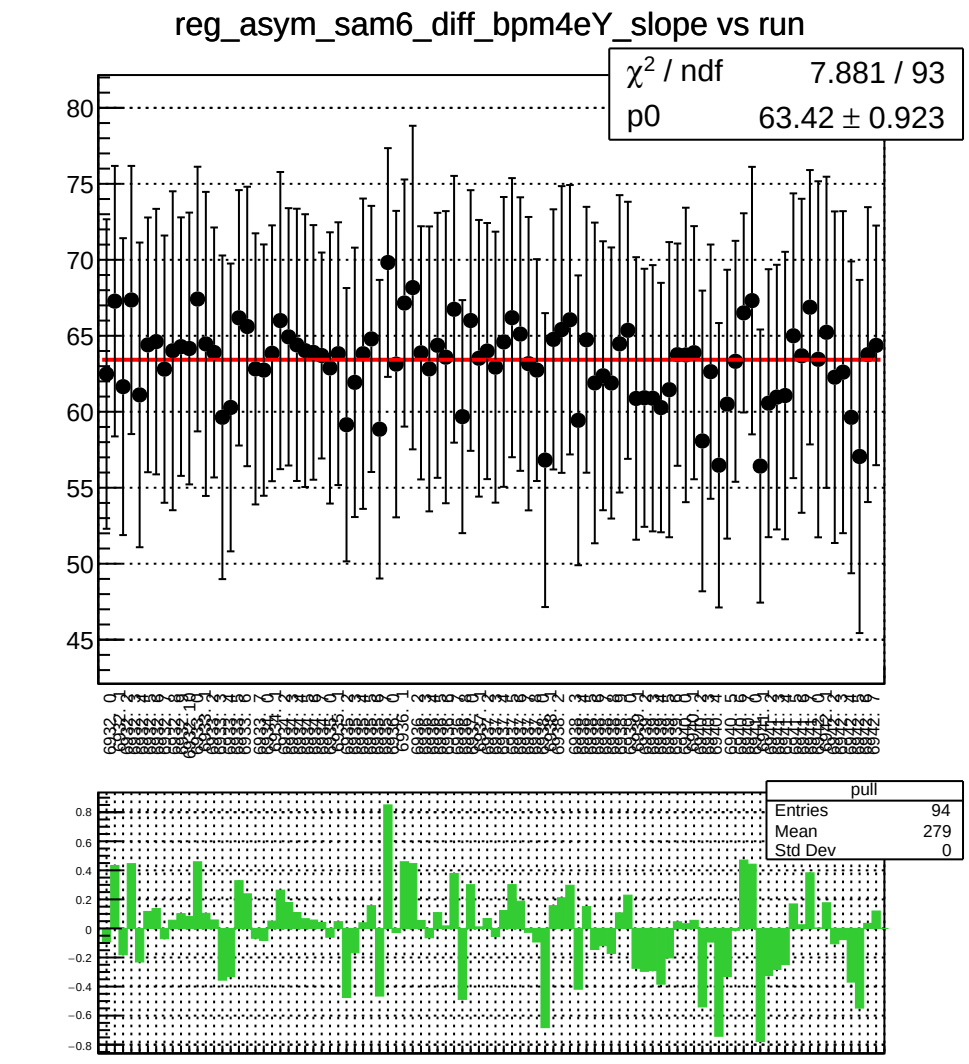

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 9.319 / 93
p0 −0.8776 ± 0.03594
pull
Entries 94
Mean 50.43
Std Dev 0
pull1D
Entries 94
Mean −0.007224
Std Dev 0.3148

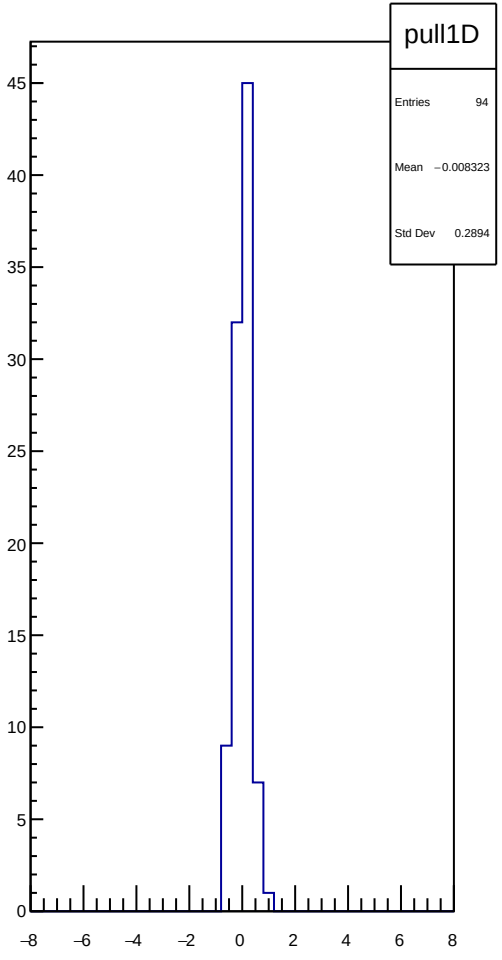

reg_asym_sam6_diff_bpm1X_slope vs run
χ^2 / ndf 3.465 / 93
p0 16.76 ± 1.187
pull
Entries 94
Mean −399.4
Std Dev 0

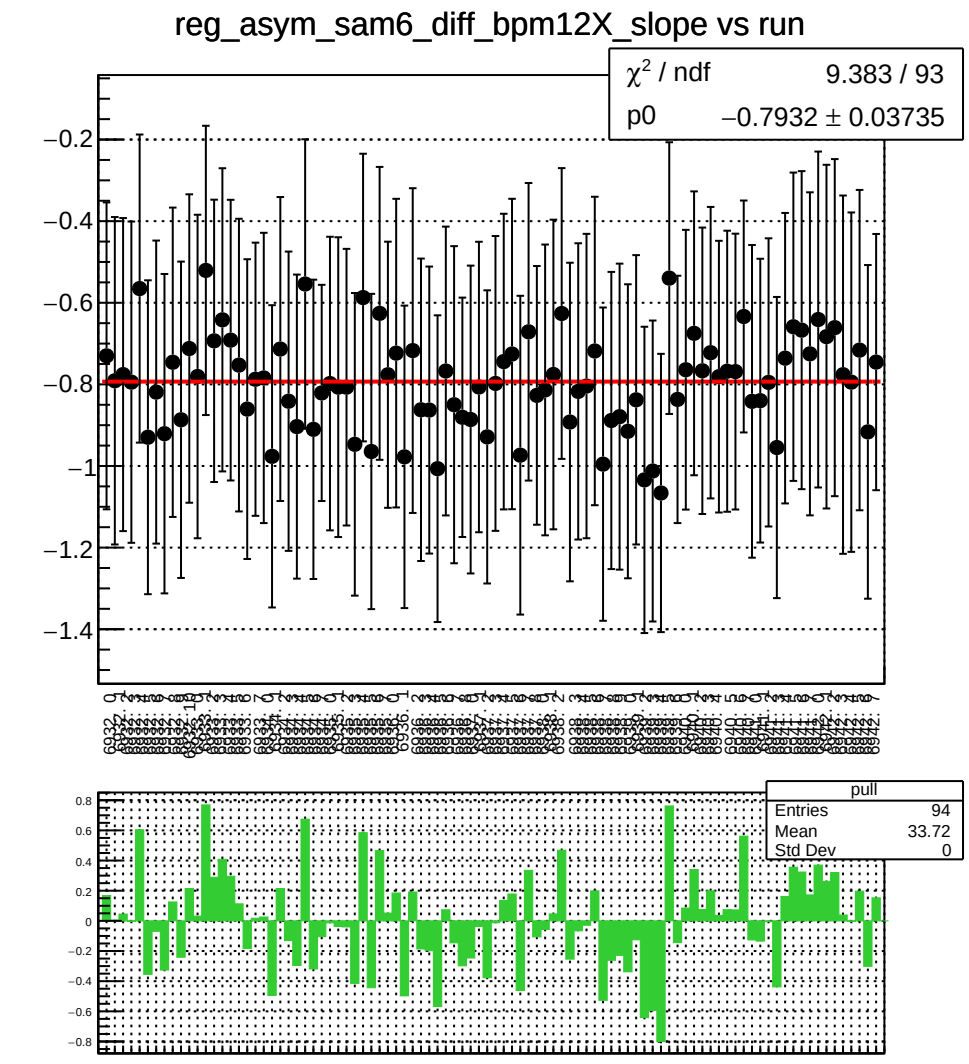

pull1D
Entries 94
Mean −0.001469
Std Dev 0.192

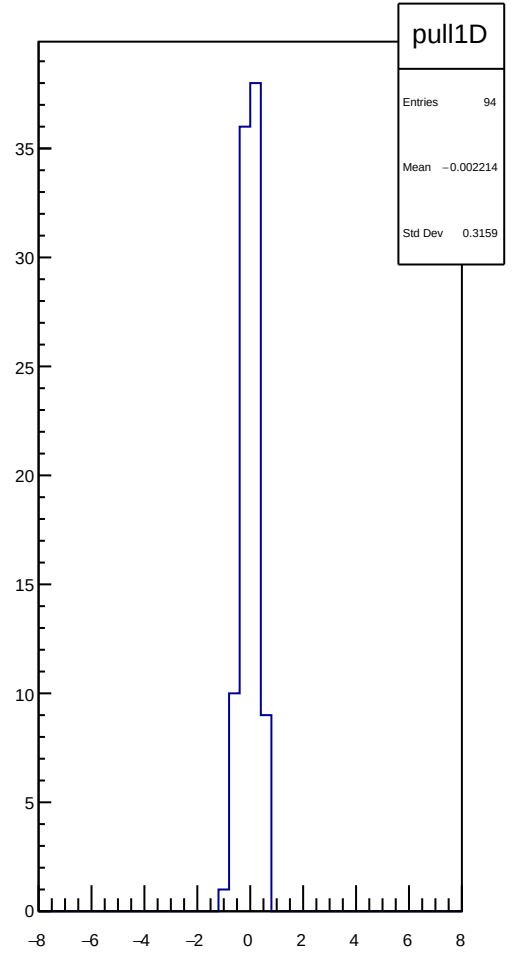

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 7.262 / 93
p0 47.2 ± 0.7998
pull
Entries 94
Mean 160.4
Std Dev 0
pull1D
Entries 94
Mean 0.01747
Std Dev 0.2774

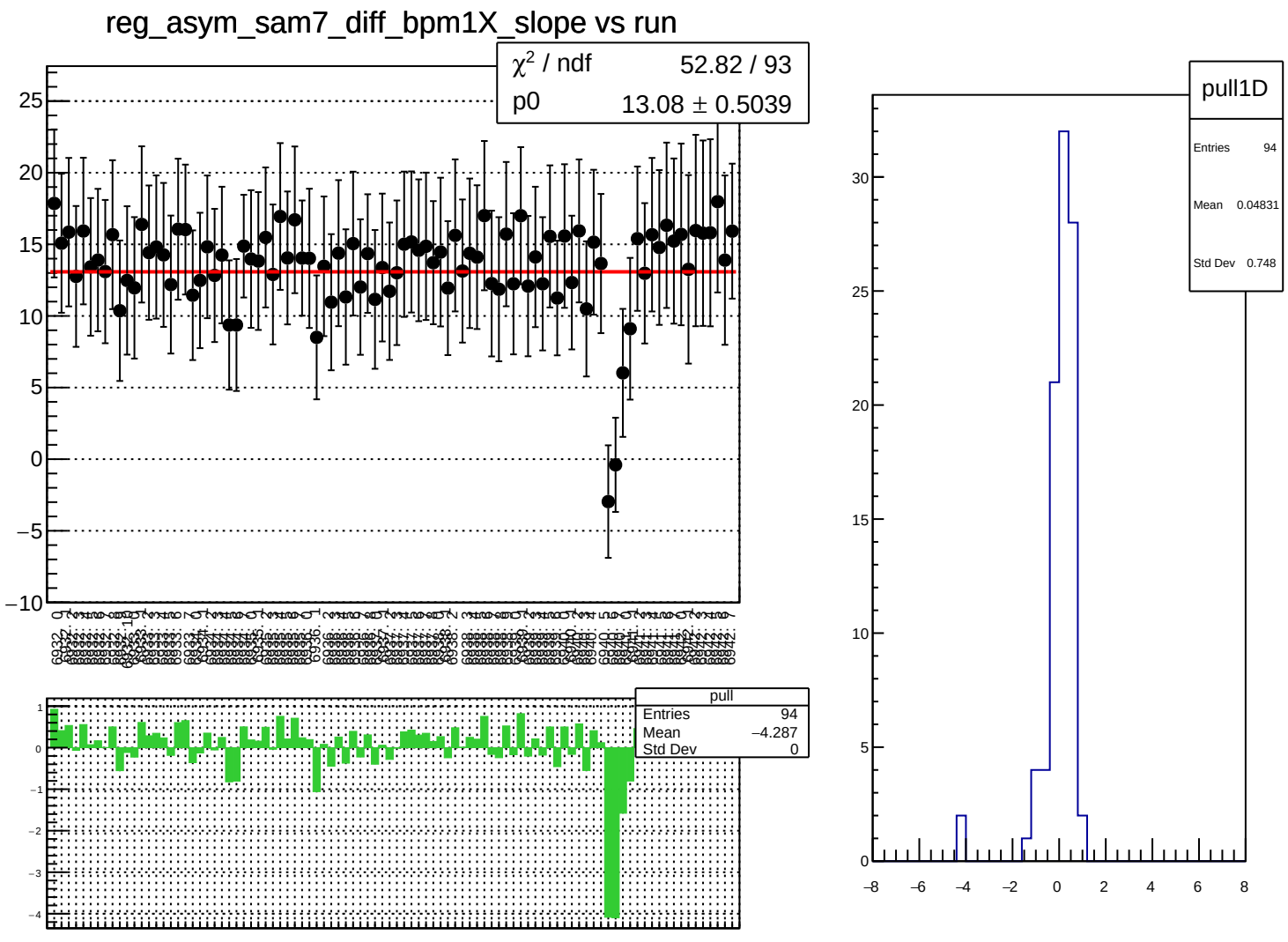

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 4.084 / 93
p0 53.69 ± 1.1
pull
Entries 94
Mean −356.8
Std Dev 0
pull1D
Entries 94
Mean 0.002044
Std Dev 0.2084

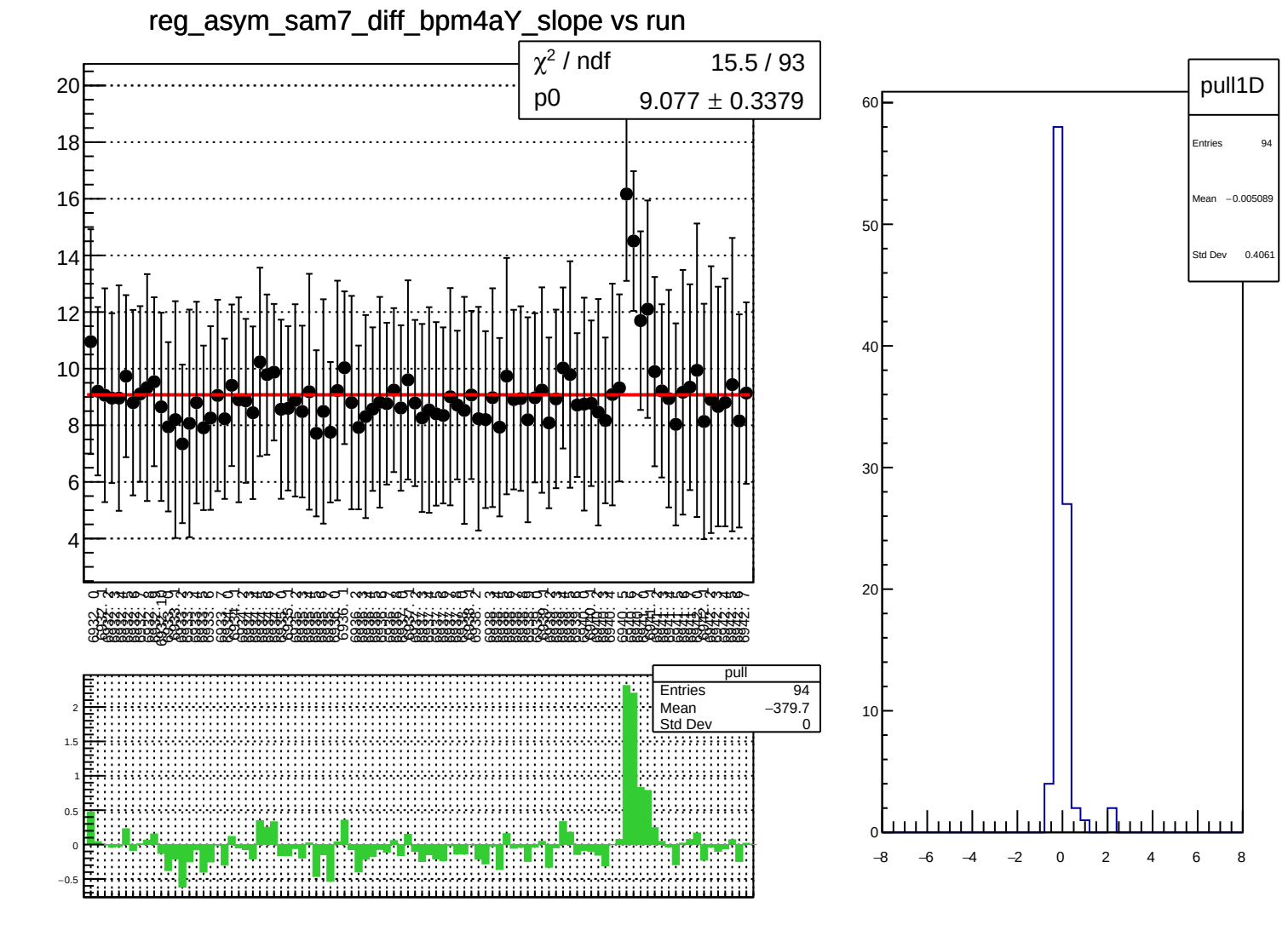

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 7.881 / 93
p0 63.42 ± 0.923
pull
Entries 94
Mean 279
Std Dev 0

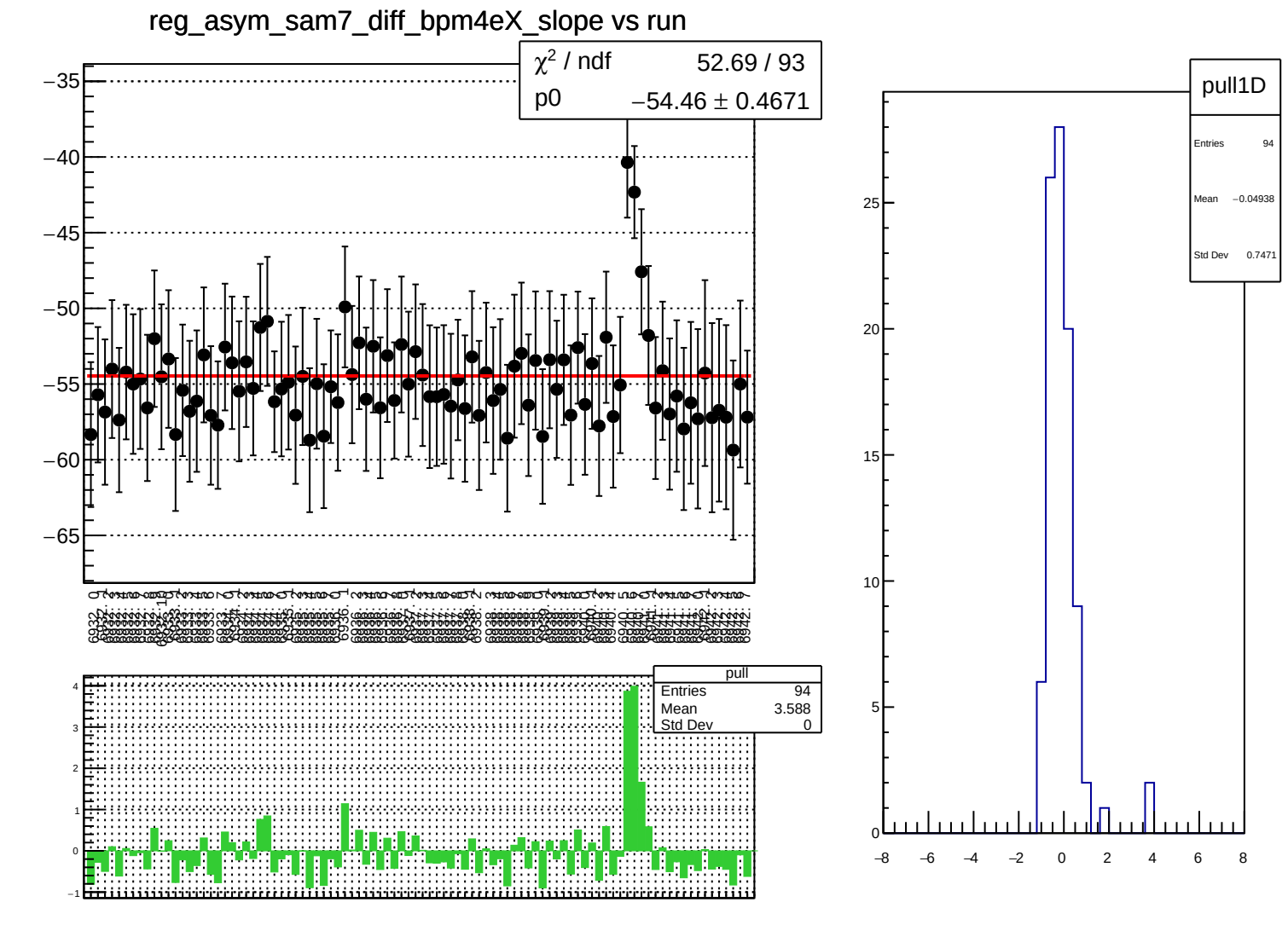

pull1D
Entries 94
Mean −0.008323
Std Dev 0.2894

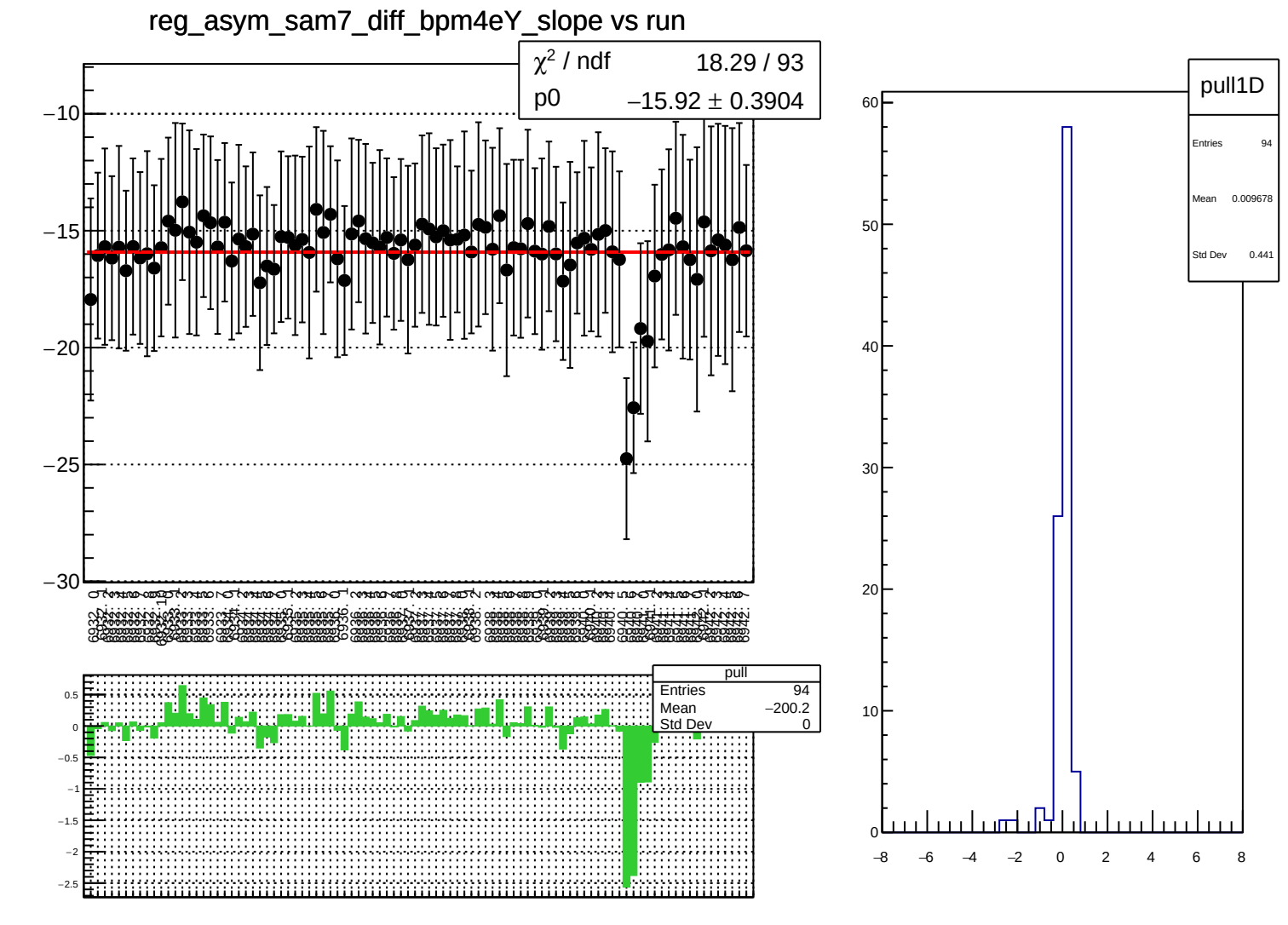

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 9.383 / 93
p0 −0.7932 ± 0.03735
pull
Entries 94
Mean 33.72
Std Dev 0

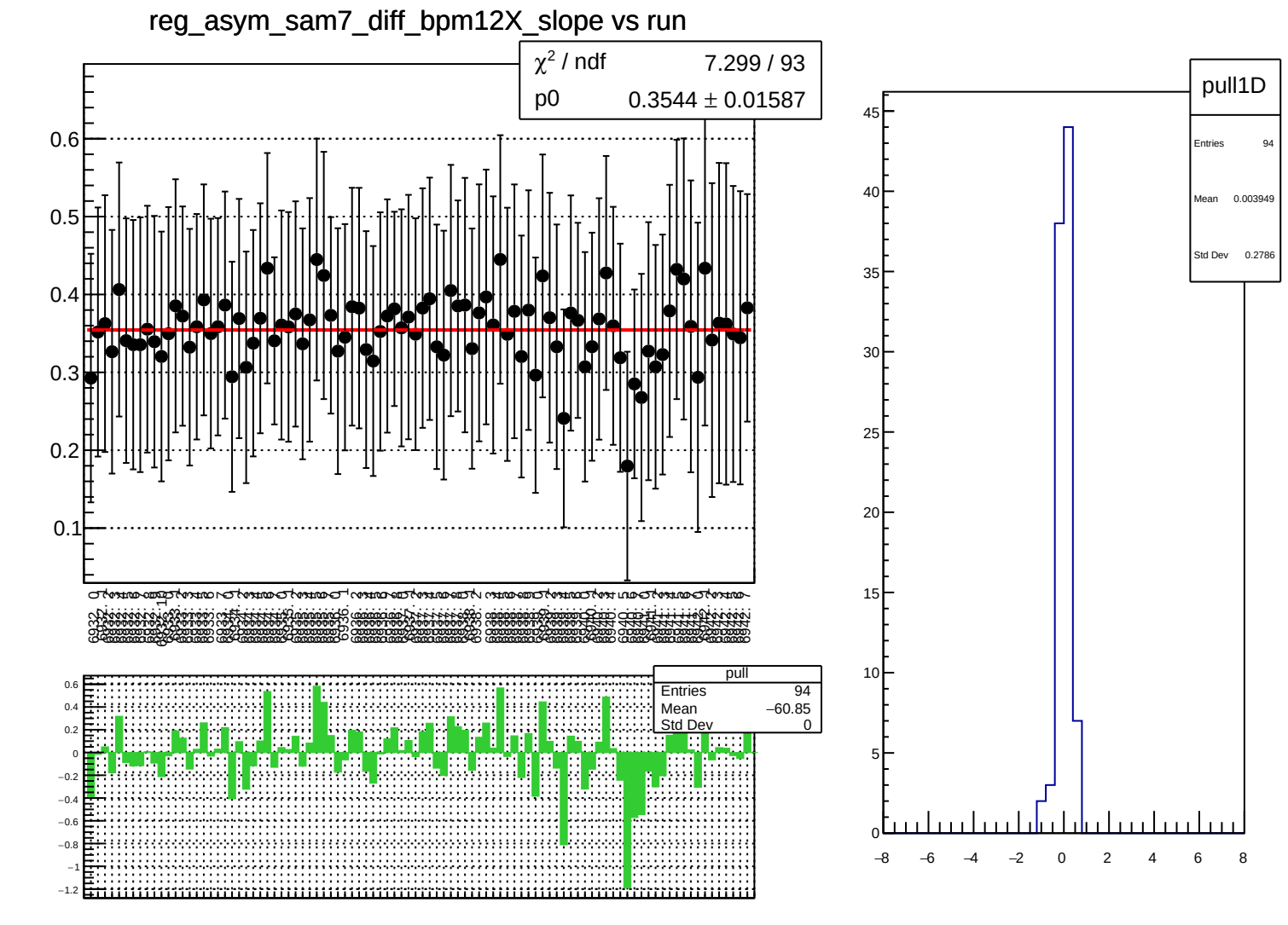

pull1D
Entries 94
Mean −0.002214
Std Dev 0.3159

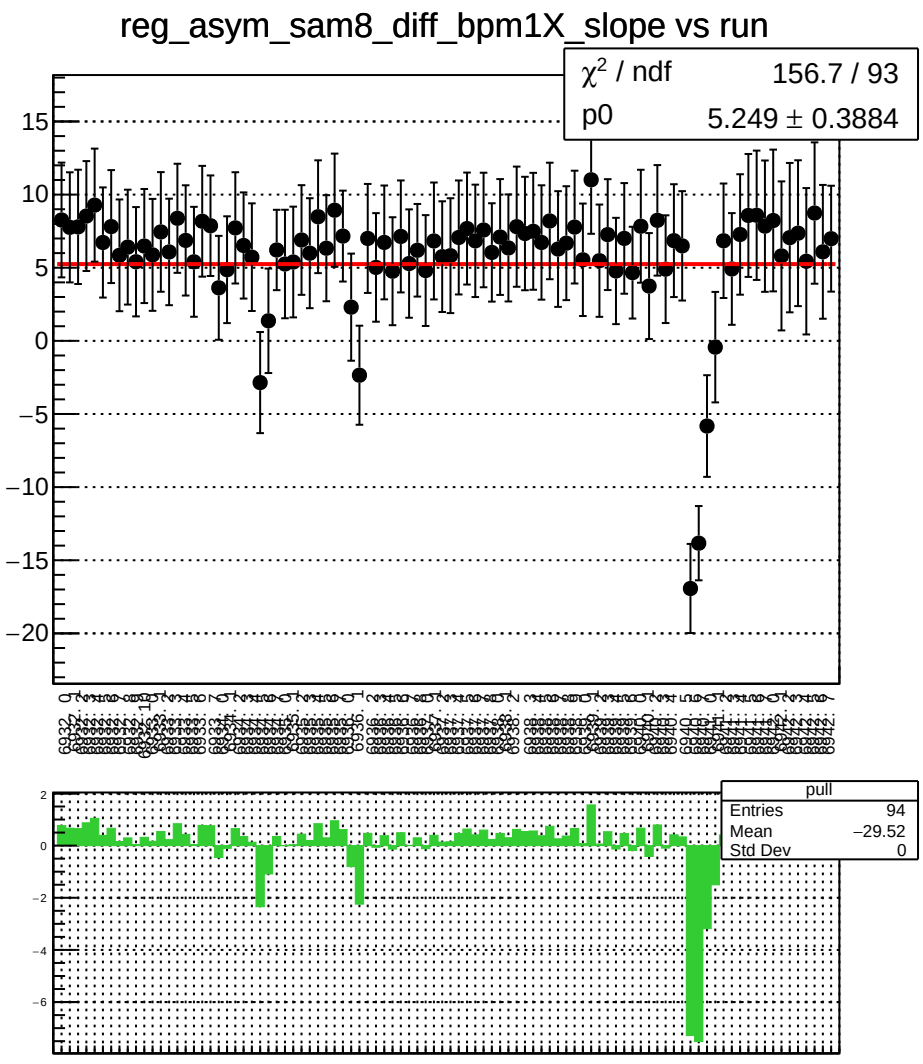

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 52.82 / 93
p0 13.08 ± 0.5039
pull
Entries 94
Mean −4.287
Std Dev 0
pull1D
Entries 94
Mean 0.04831
Std Dev 0.748

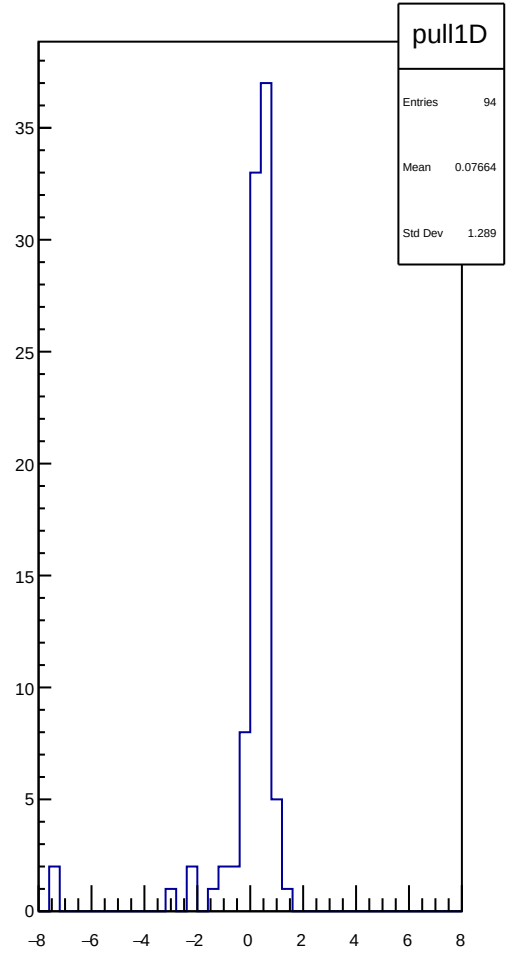

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 15.5 / 93
p0 9.077 ± 0.3379
pull
Entries 94
Mean −379.7
Std Dev 0
pull1D
Entries 94
Mean −0.005089
Std Dev 0.4061

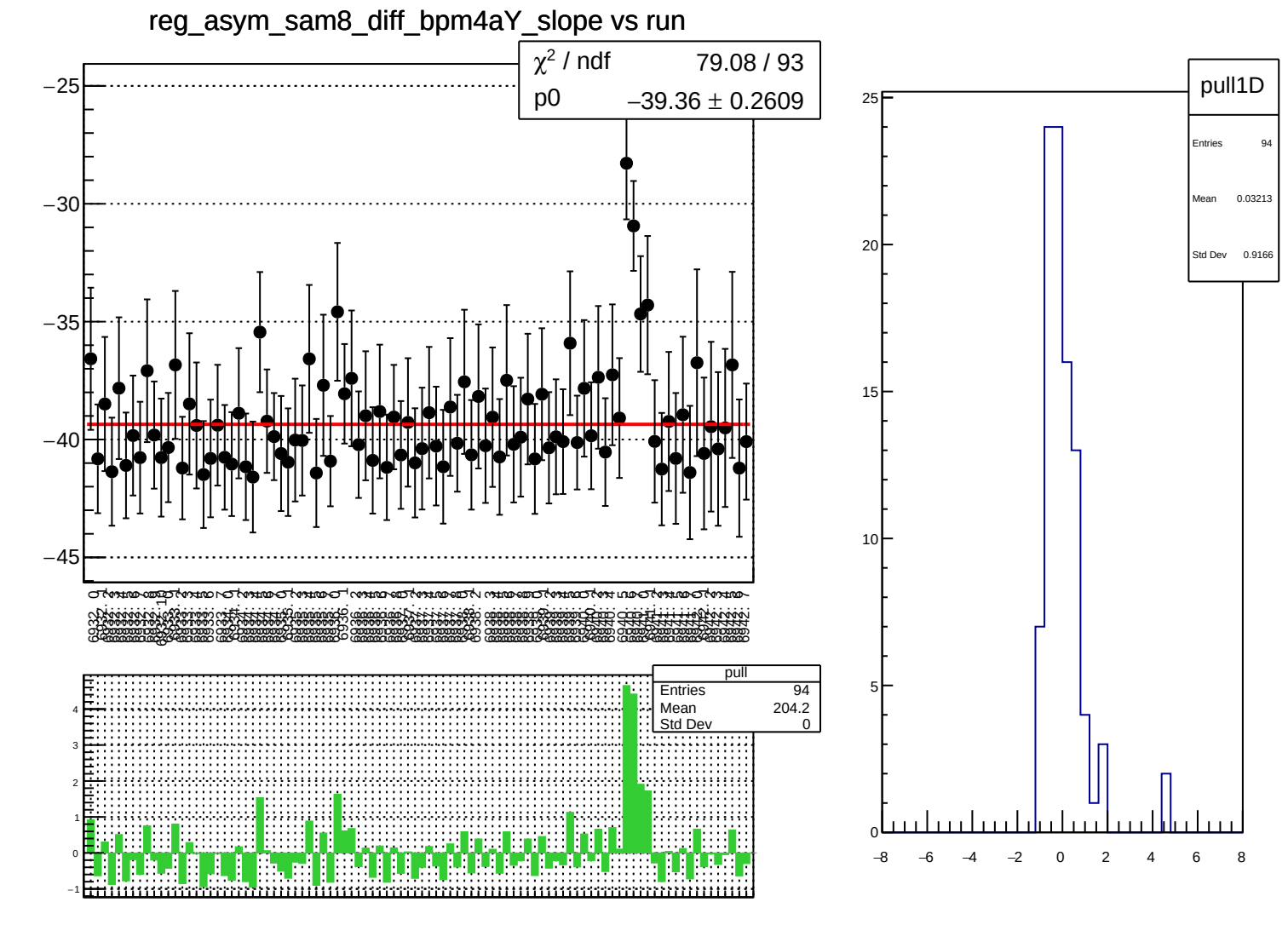

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 52.69 / 93
p0 −54.46 ± 0.4671
pull
Entries 94
Mean 3.588
Std Dev 0
pull1D
Entries 94
Mean −0.04938
Std Dev 0.7471

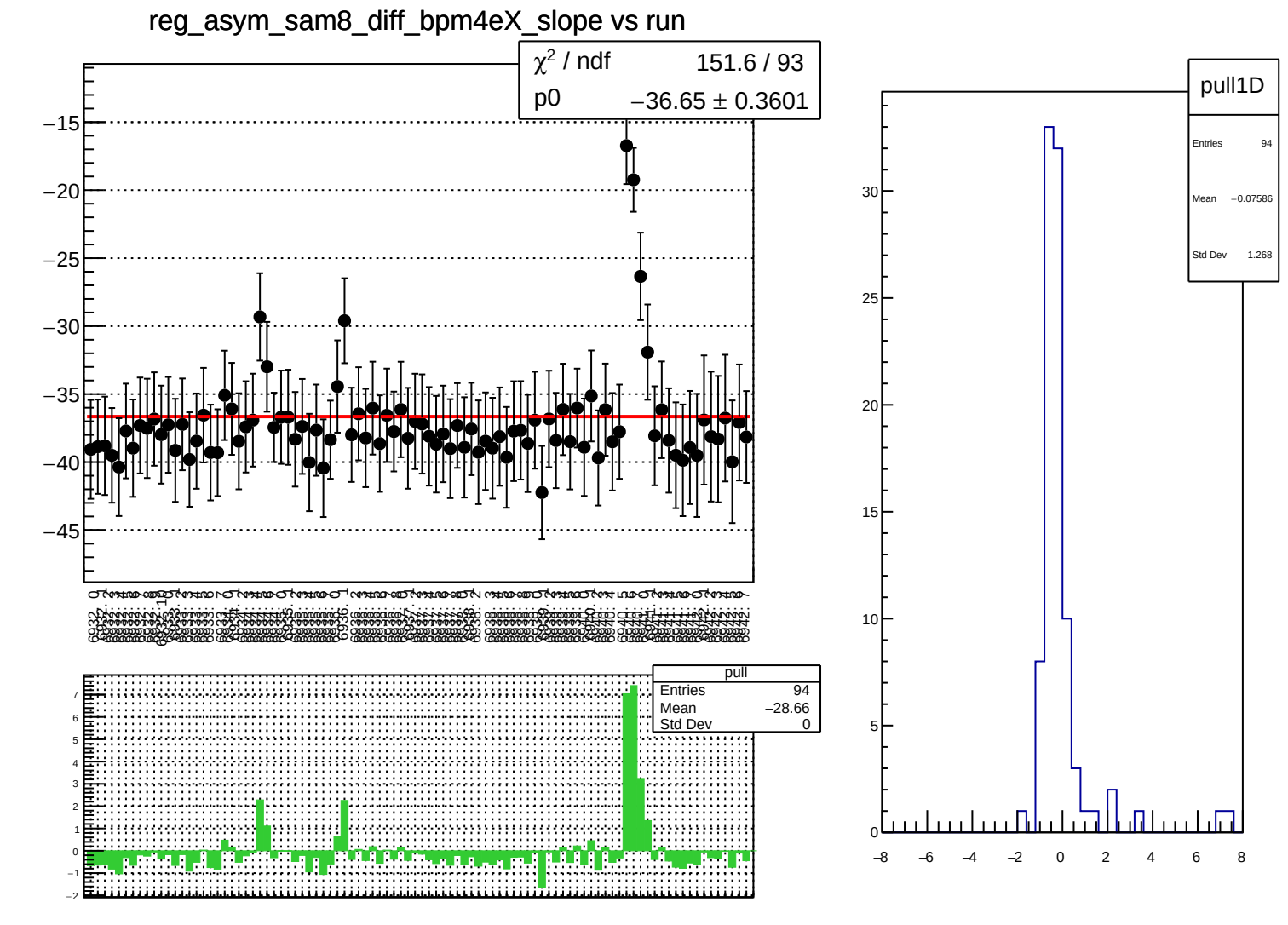

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 18.29 / 93
p0 −15.92 ± 0.3904
pull
Entries 94
Mean −200.2
Std Dev 0
pull1D
Entries 94
Mean 0.009678
Std Dev 0.441

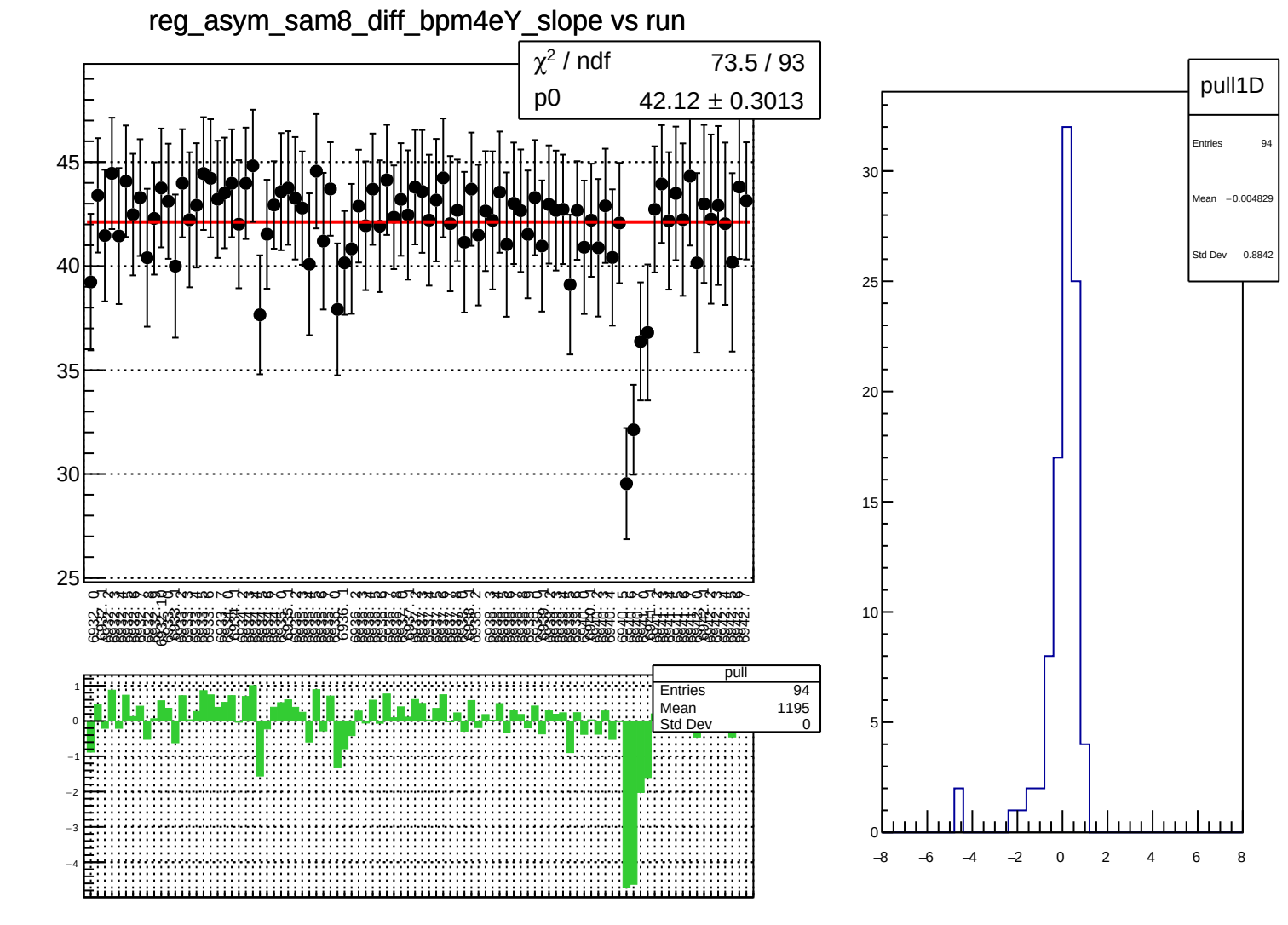

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 7.299 / 93
p0 0.3544 ± 0.01587
pull
Entries 94
Mean −60.85
Std Dev 0
pull1D
Entries 94
Mean 0.003949
Std Dev 0.2786

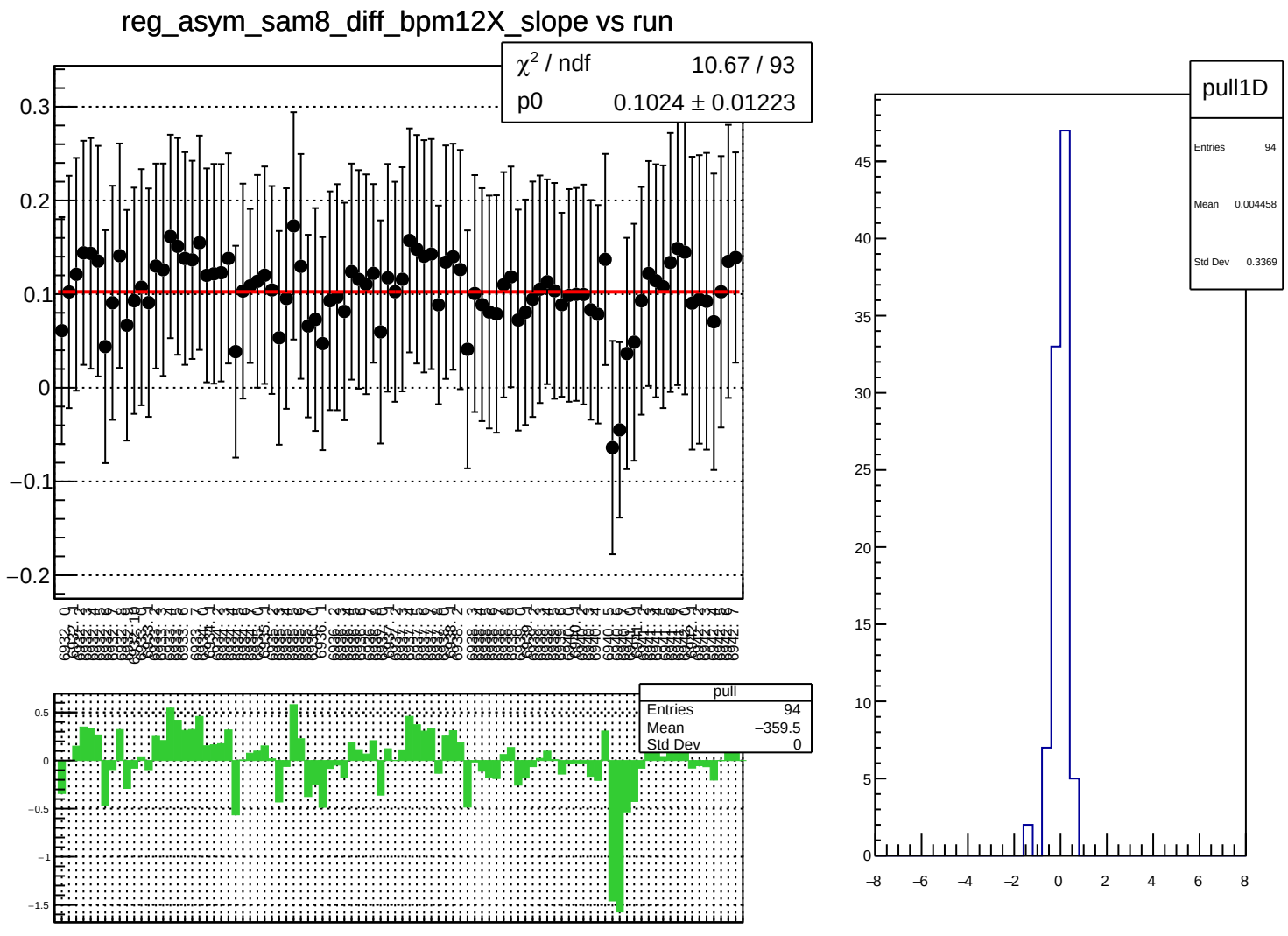

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 156.7 / 93
p0 5.249 ± 0.3884
pull
Entries 94
Mean −29.52
Std Dev 0

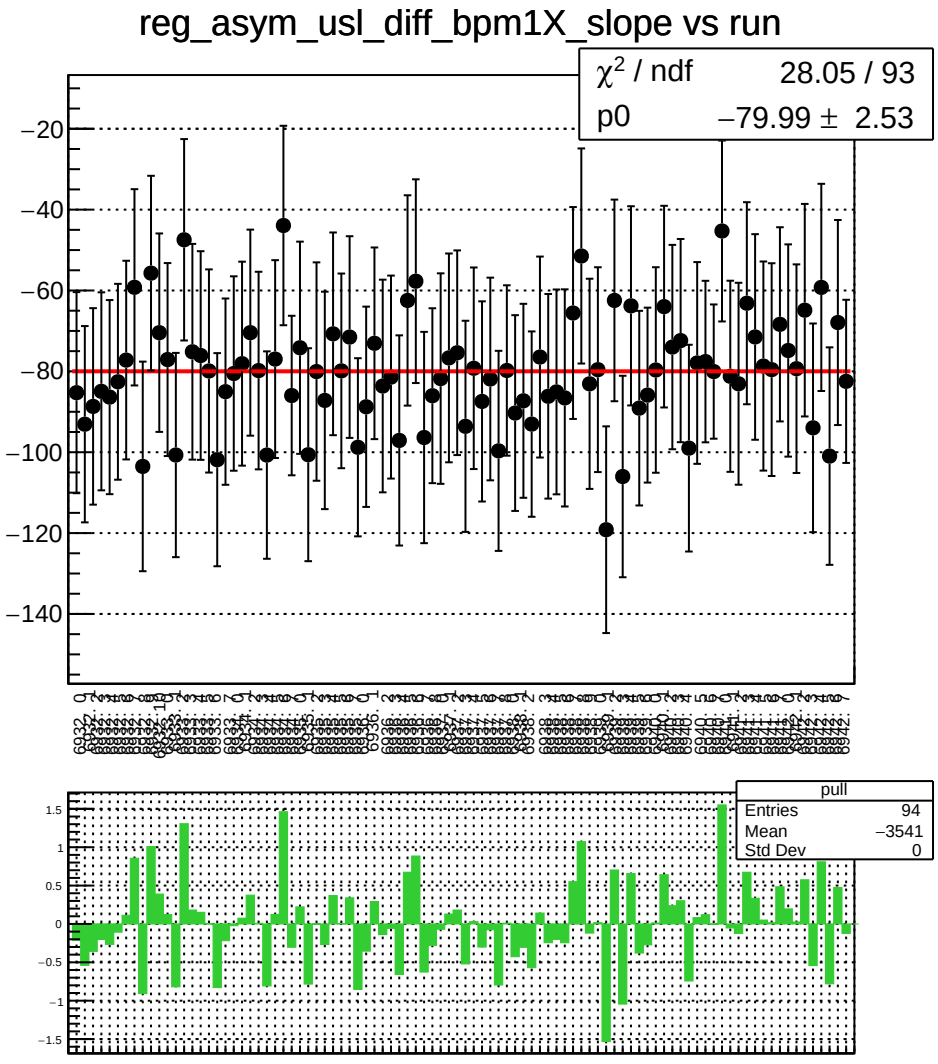

pull1D
Entries 94
Mean 0.07664
Std Dev 1.289

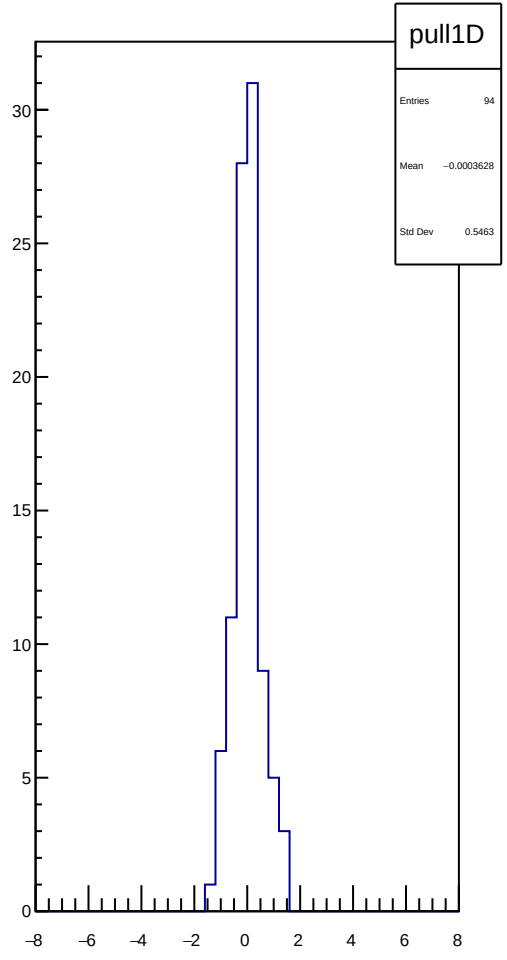

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 79.08 / 93
p0 −39.36 ± 0.2609
pull
Entries 94
Mean 204.2
Std Dev 0
pull1D
Entries 94
Mean 0.03213
Std Dev 0.9166

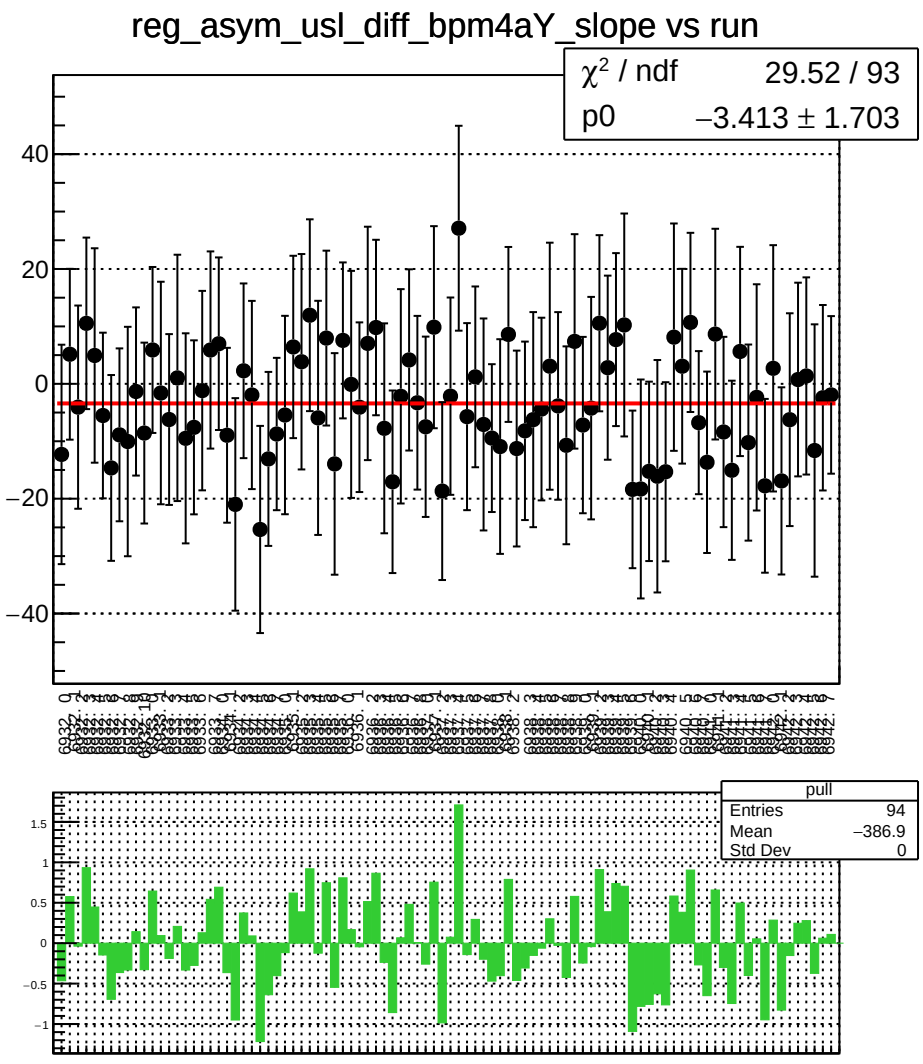

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 151.6 / 93
p0 −36.65 ± 0.3601
pull
Entries 94
Mean −28.66
Std Dev 0
pull1D
Entries 94
Mean −0.07586
Std Dev 1.268

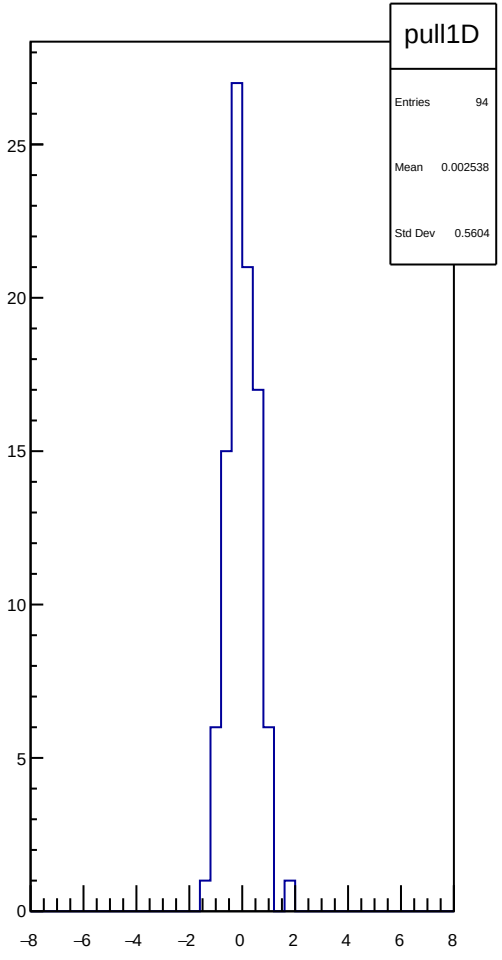

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 73.5 / 93
p0 42.12 ± 0.3013
pull
Entries 94
Mean 1195
Std Dev 0
pull1D
Entries 94
Mean −0.004829
Std Dev 0.8842

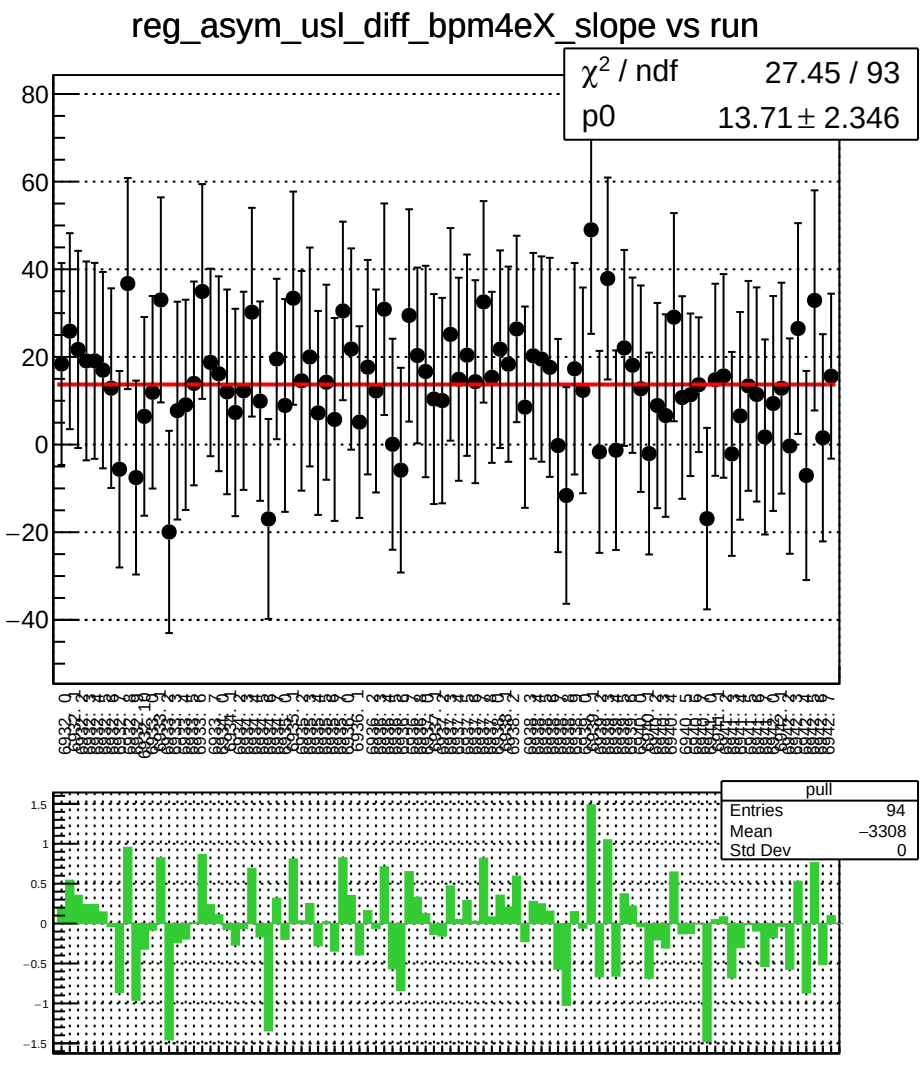

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 10.67 / 93
p0 0.1024 ± 0.01223
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean −359.5
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.004458
Std Dev 0.3369
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

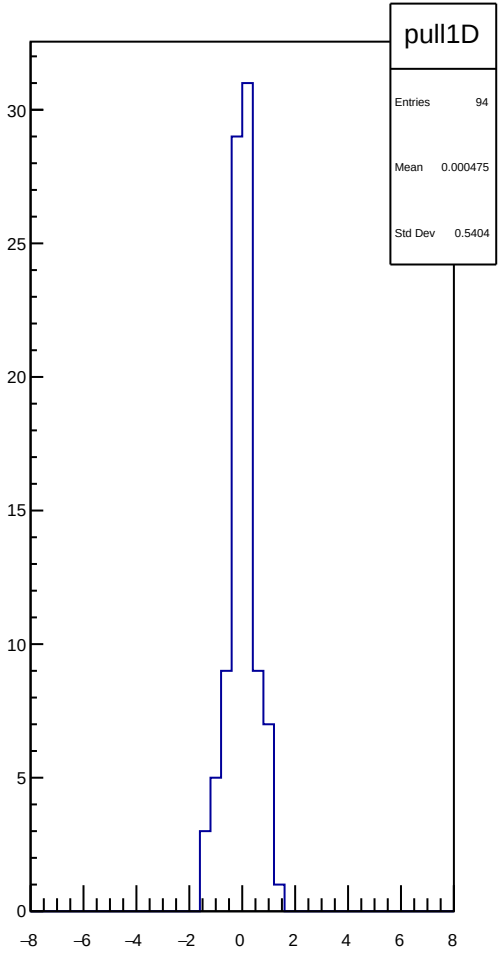

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 28.05 / 93
p0 −79.99 ± 2.53
−20
−40
−60
−80
−100
−120
−140
pull
Entries 94
Mean −3541
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

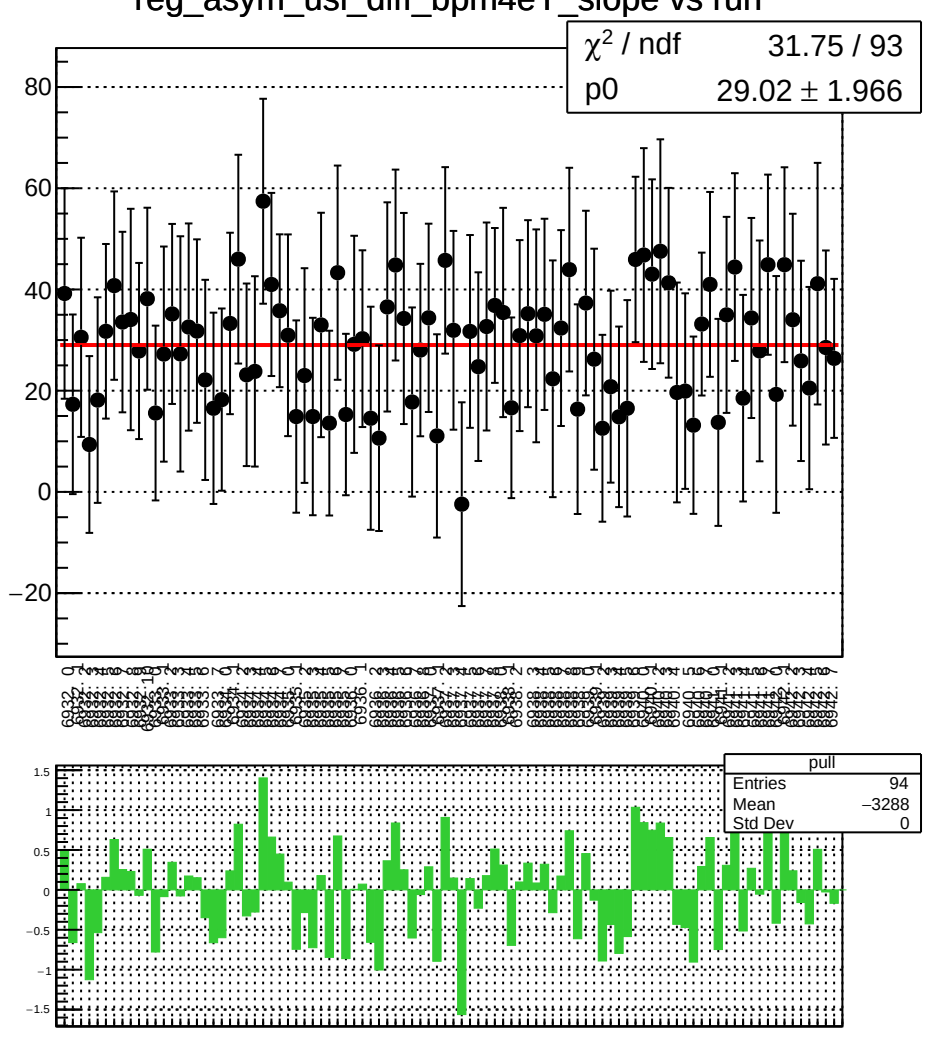

pull1D
Entries 94
Mean −0.0003628
Std Dev 0.5463
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

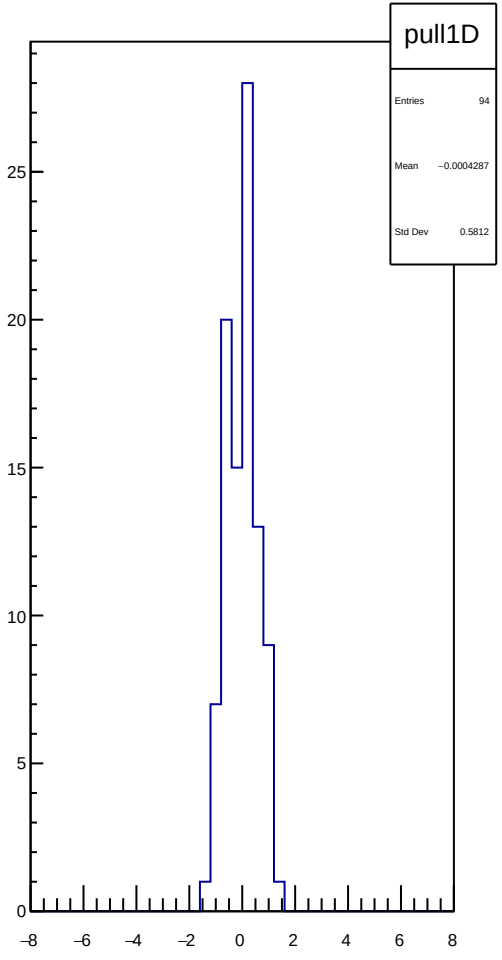

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 29.52 / 93
p0 −3.413 ± 1.703
40
20
0
−20
−40
pull
Entries 94
Mean −386.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

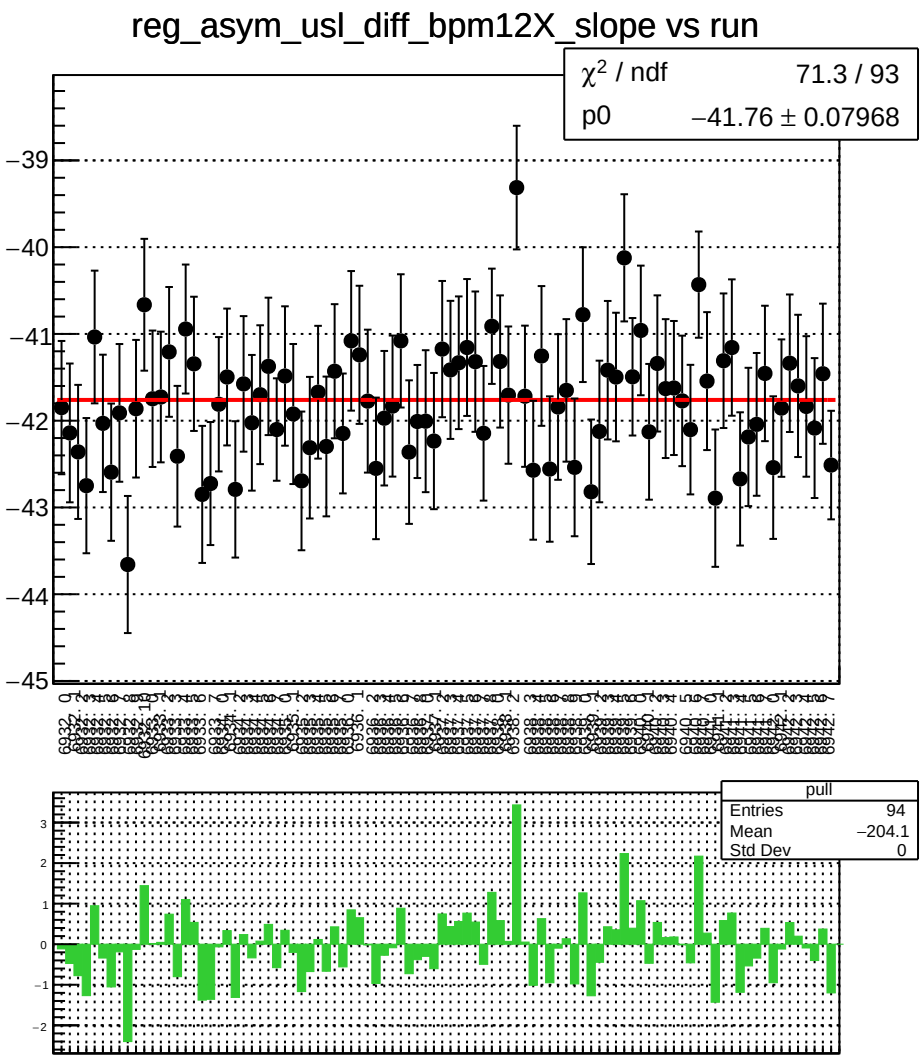

pull1D
Entries 94
Mean 0.002538
Std Dev 0.5604
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

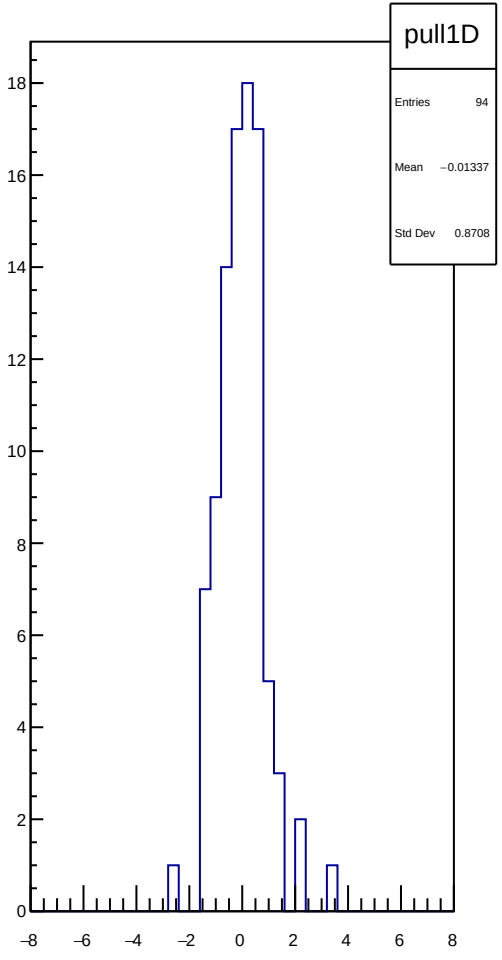

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 27.45 / 93
p0 13.71 ± 2.346
pull
Entries 94
Mean −3308
Std Dev 0

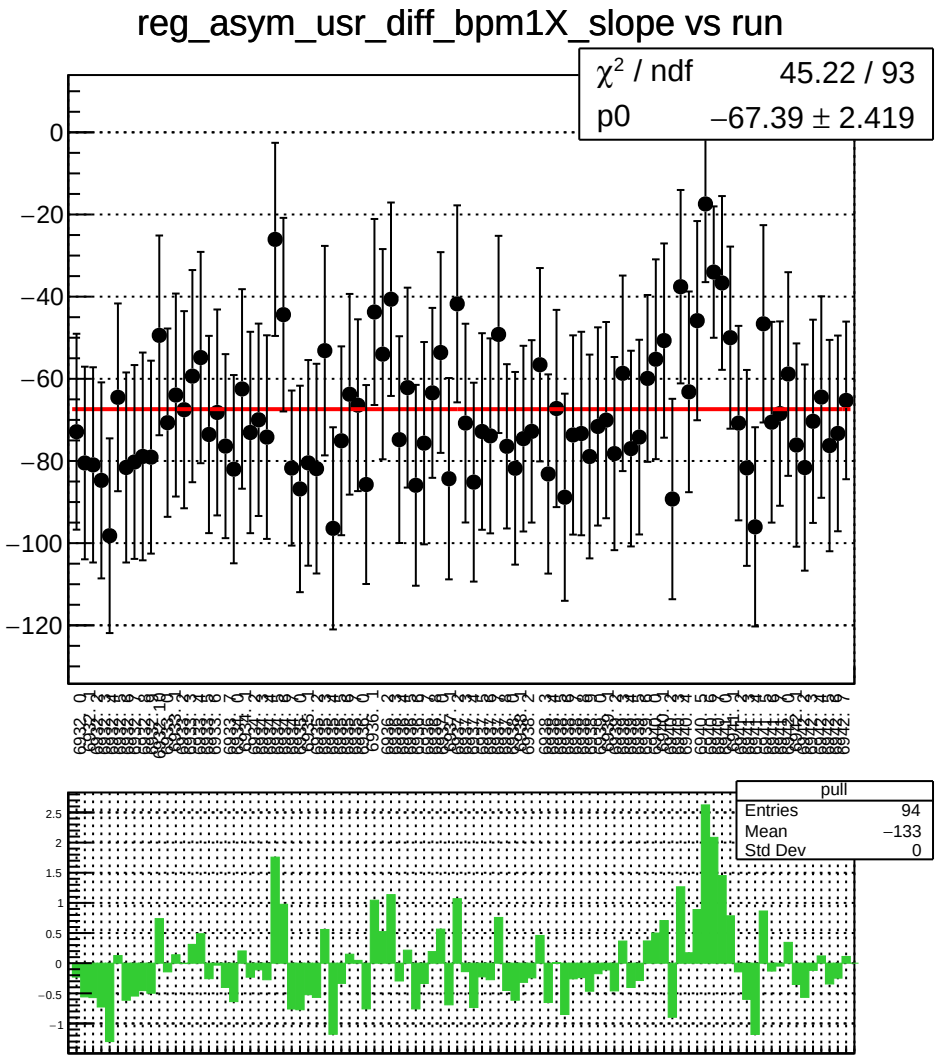

pull1D
Entries 94
Mean 0.000475
Std Dev 0.5404

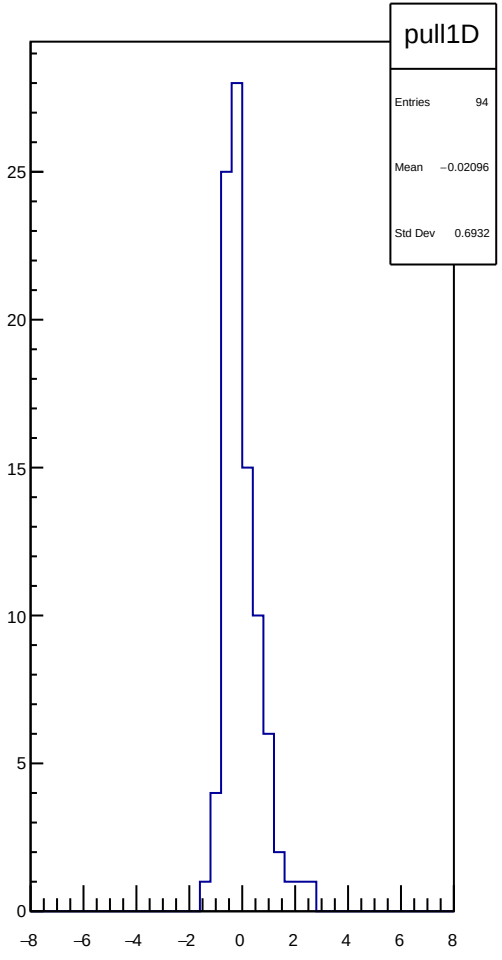

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 31.75 / 93
p0 29.02 ± 1.966
pull
Entries 94
Mean −3288
Std Dev 0

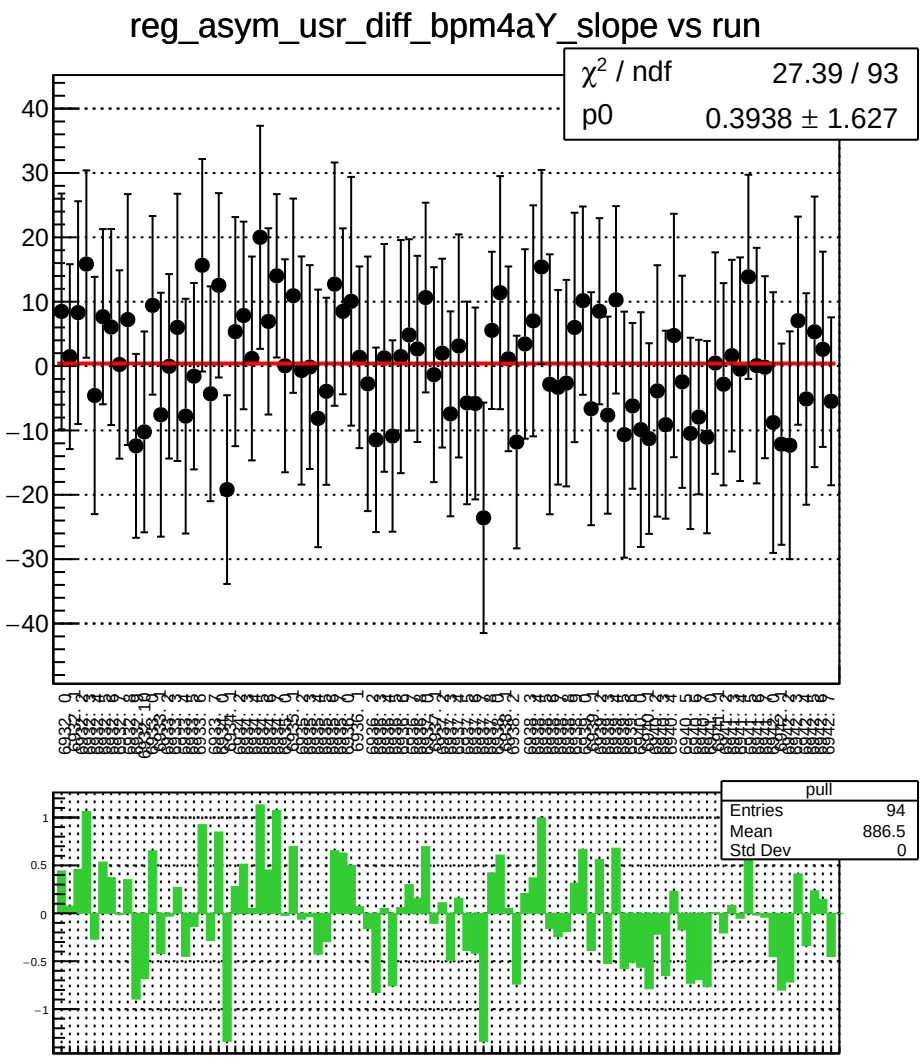

pull1D
Entries 94
Mean −0.0004287
Std Dev 0.5812

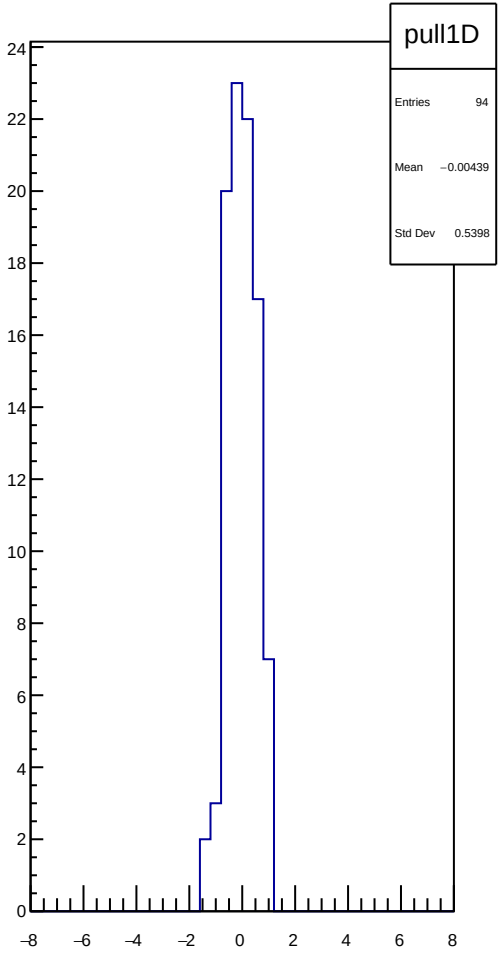

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 71.3 / 93
p0 −41.76 ± 0.07968
pull
Entries 94
Mean −204.1
Std Dev 0

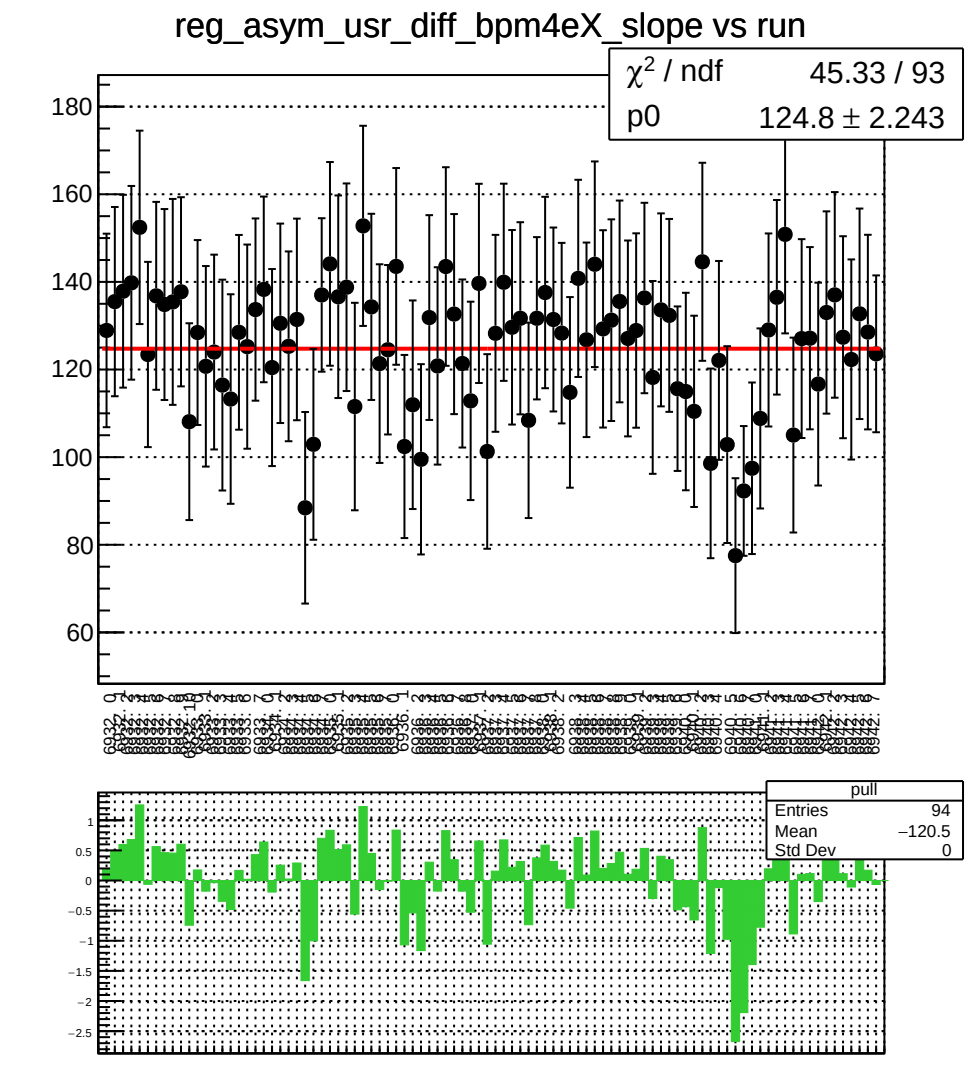

pull1D
Entries 94
Mean −0.01337
Std Dev 0.8708

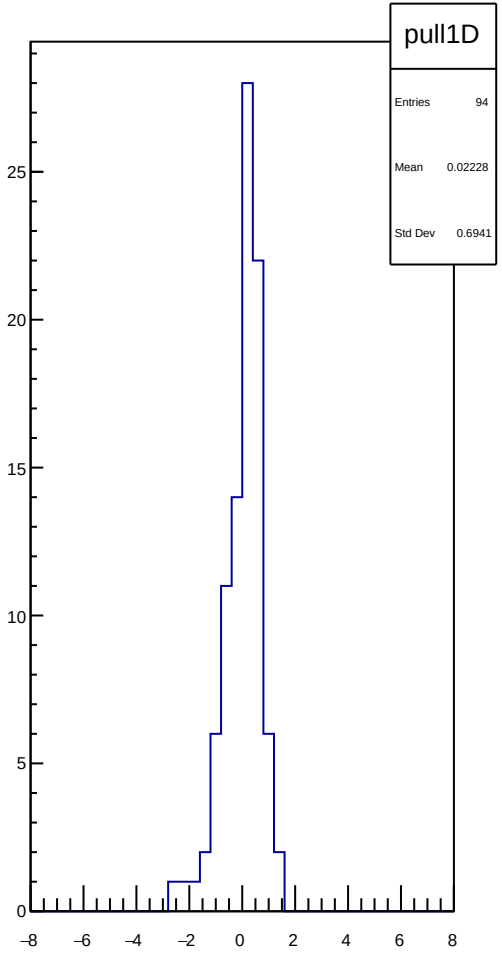

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 45.22 / 93
p0 −67.39 ± 2.419
0
−20
−40
−60
−80
−100
−120
pull
Entries 94
Mean −133
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

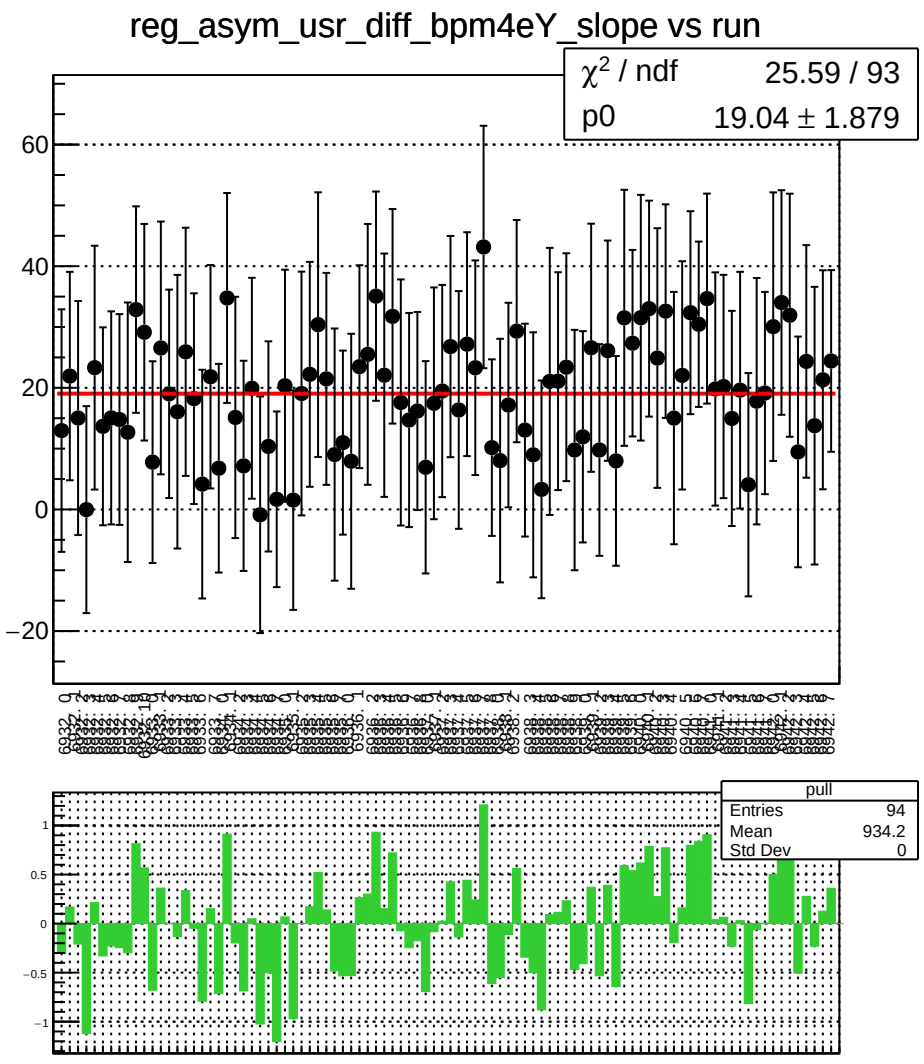

pull1D
Entries 94
Mean −0.02096
Std Dev 0.6932
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

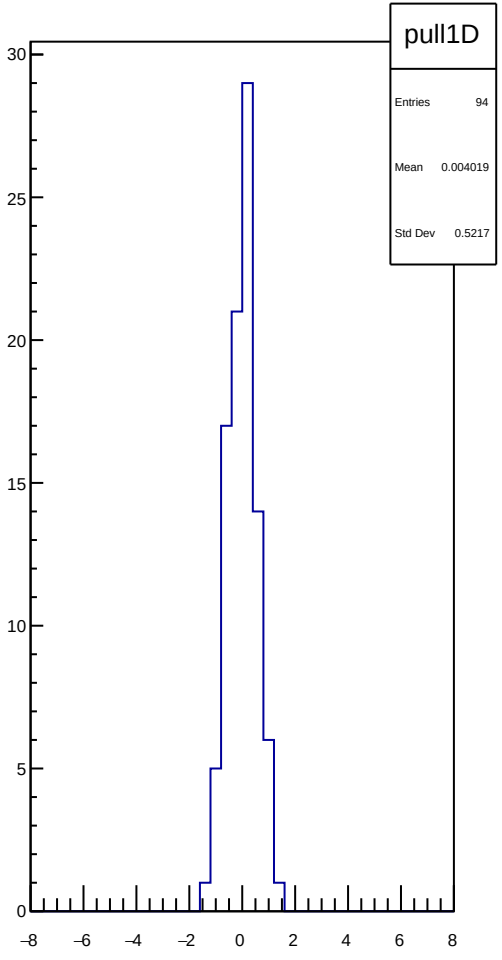

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 27.39 / 93
p0 0.3938 ± 1.627
pull
Entries 94
Mean 886.5
Std Dev 0

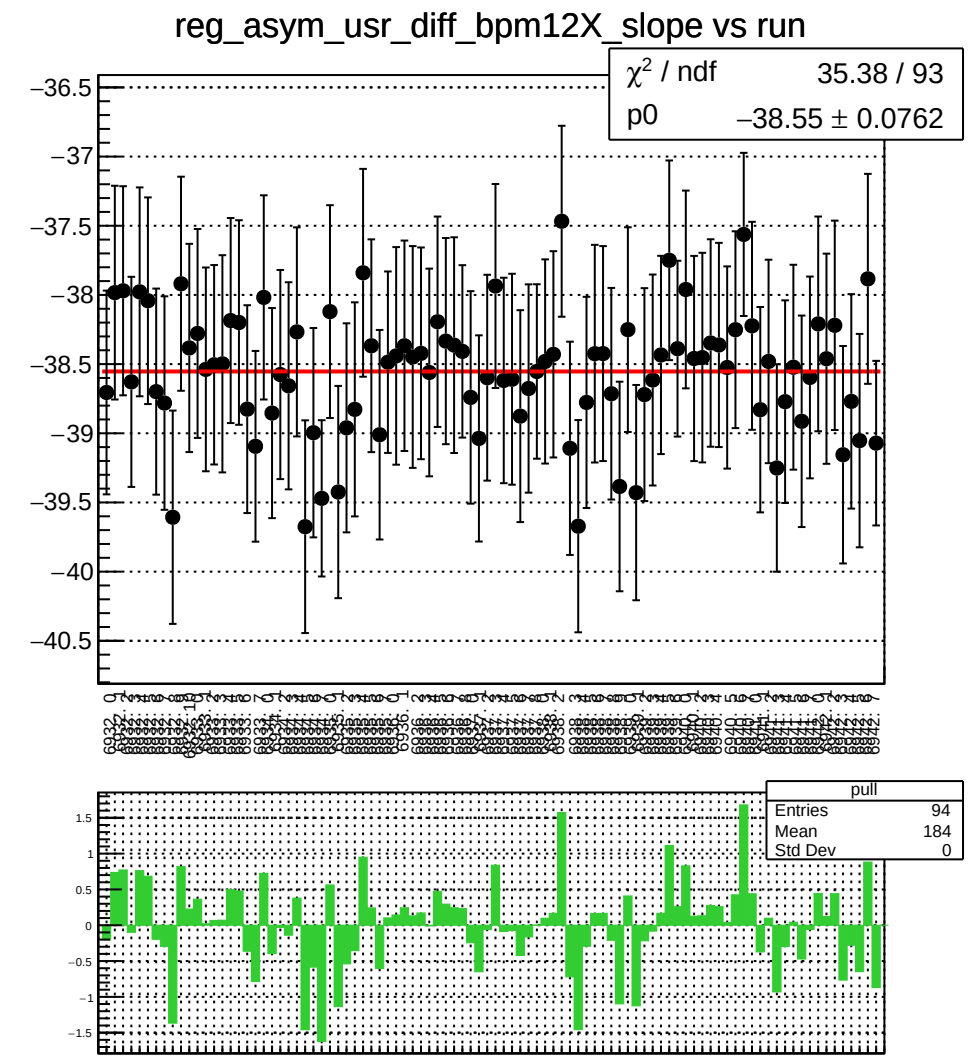

pull1D
Entries 94
Mean −0.00439
Std Dev 0.5398

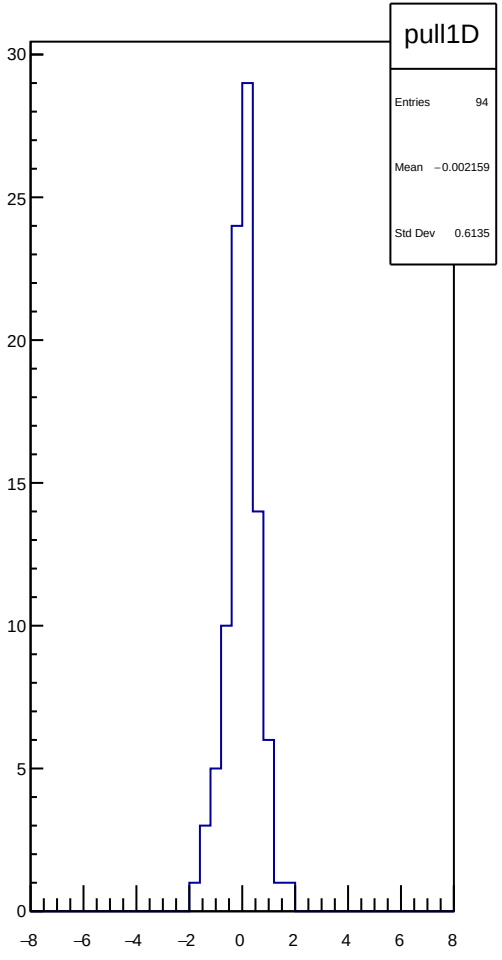

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 45.33 / 93
p0 124.8 ± 2.243
pull
Entries 94
Mean −120.5
Std Dev 0

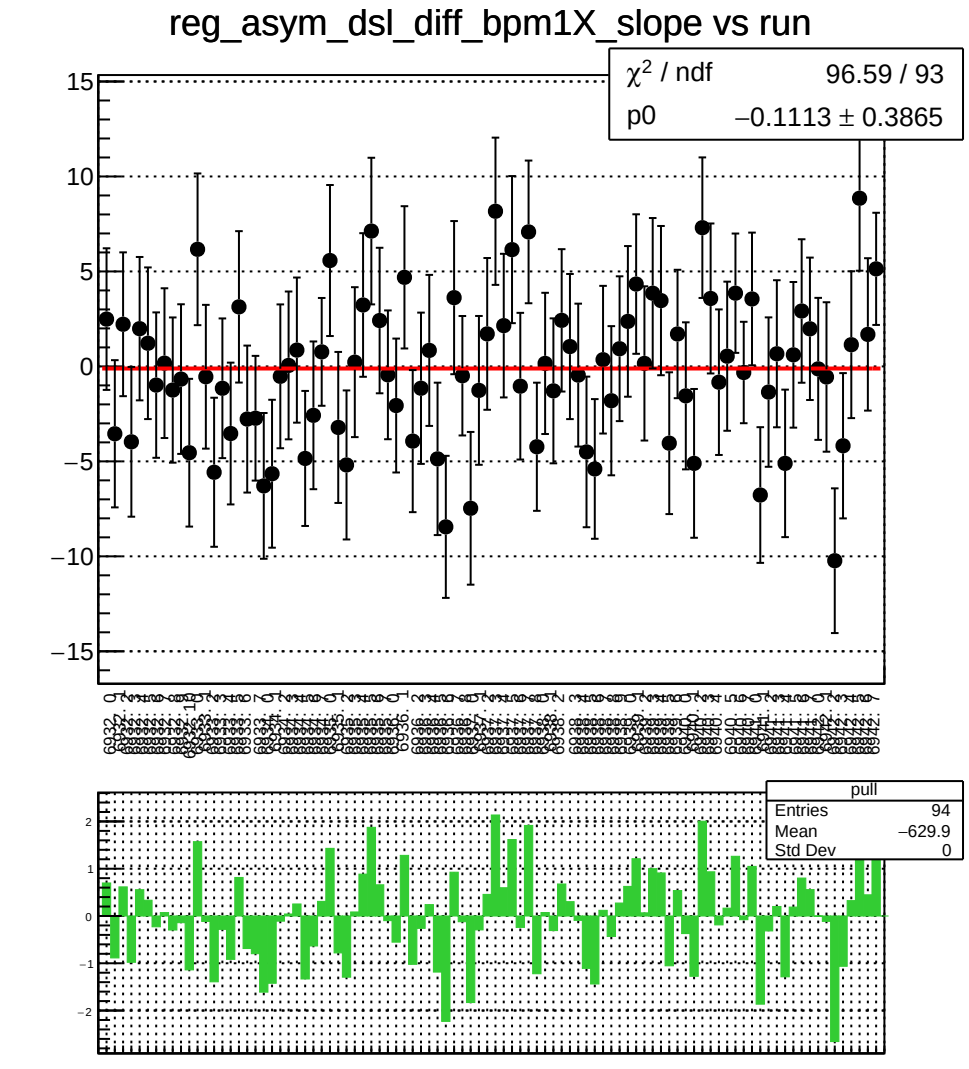

pull1D
Entries 94
Mean 0.02228
Std Dev 0.6941

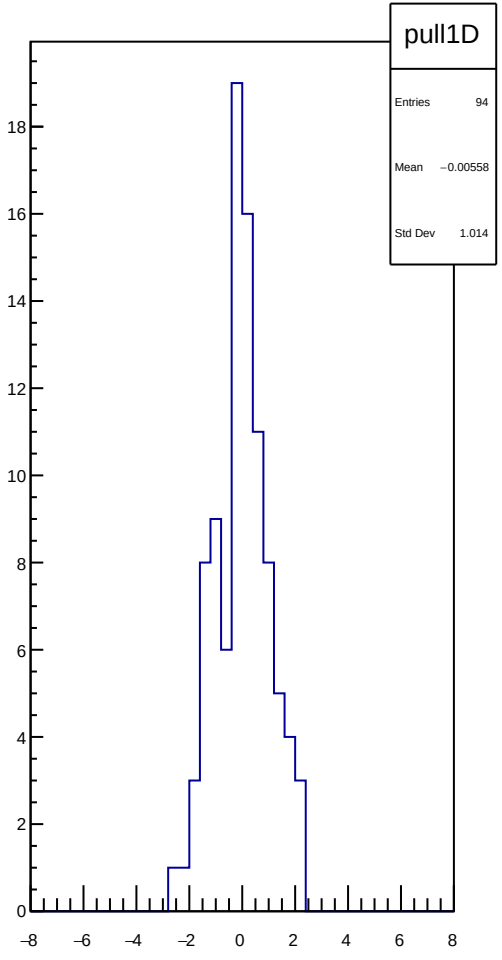

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 25.59 / 93
p0 19.04 ± 1.879
pull
Entries 94
Mean 934.2
Std Dev 0

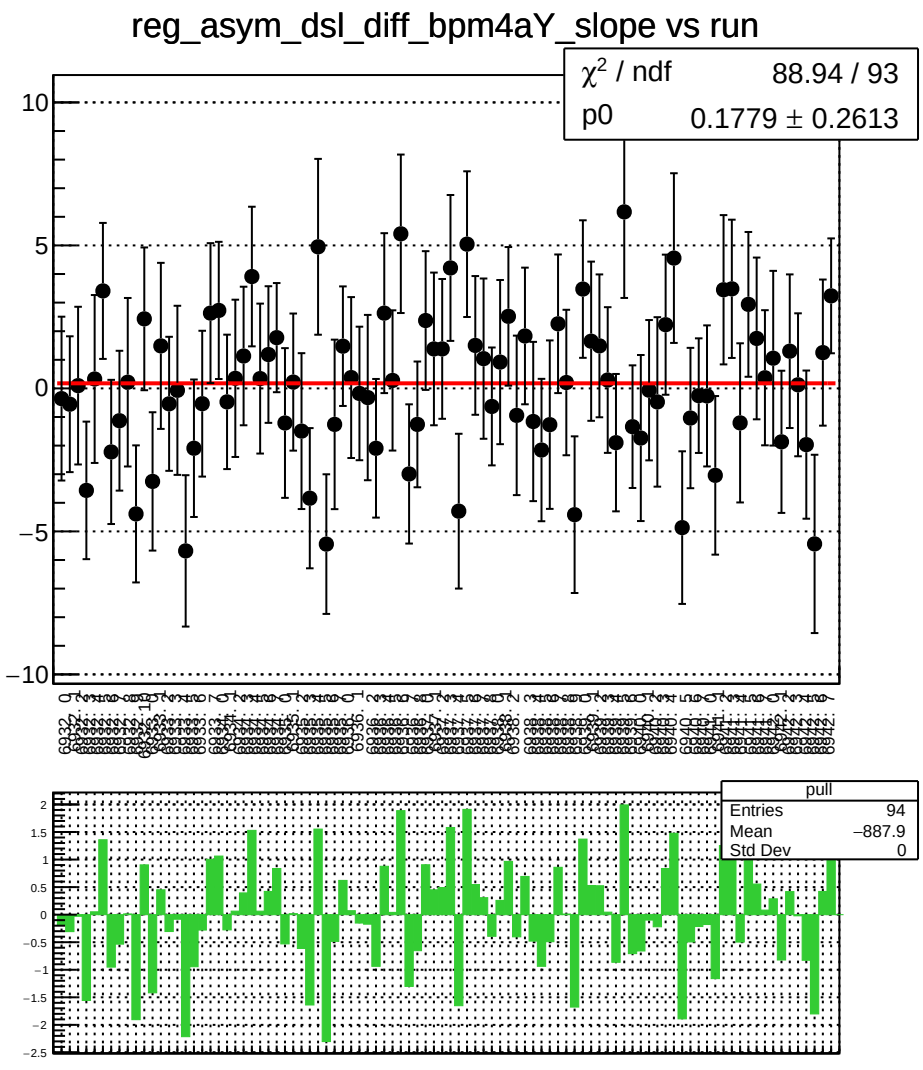

pull1D
Entries 94
Mean 0.004019
Std Dev 0.5217

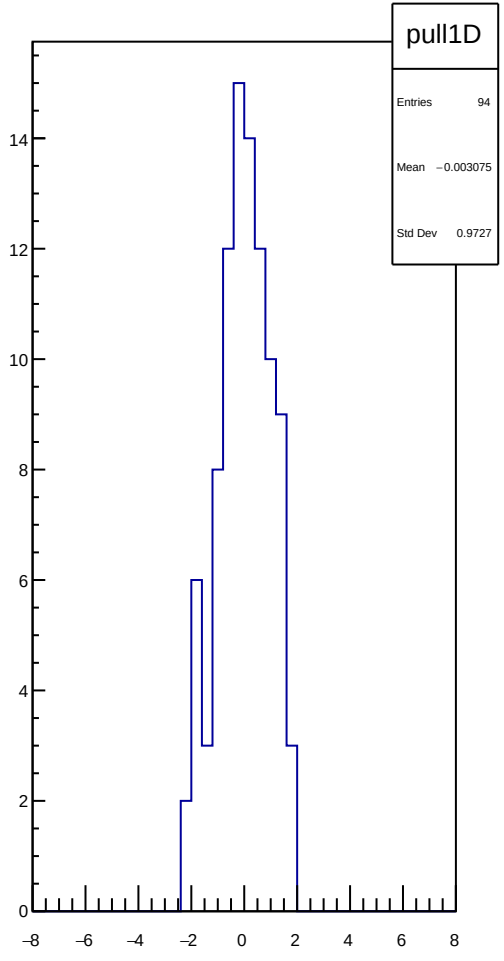

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 35.38 / 93
p0 −38.55 ± 0.0762
pull
Entries 94
Mean 184
Std Dev 0

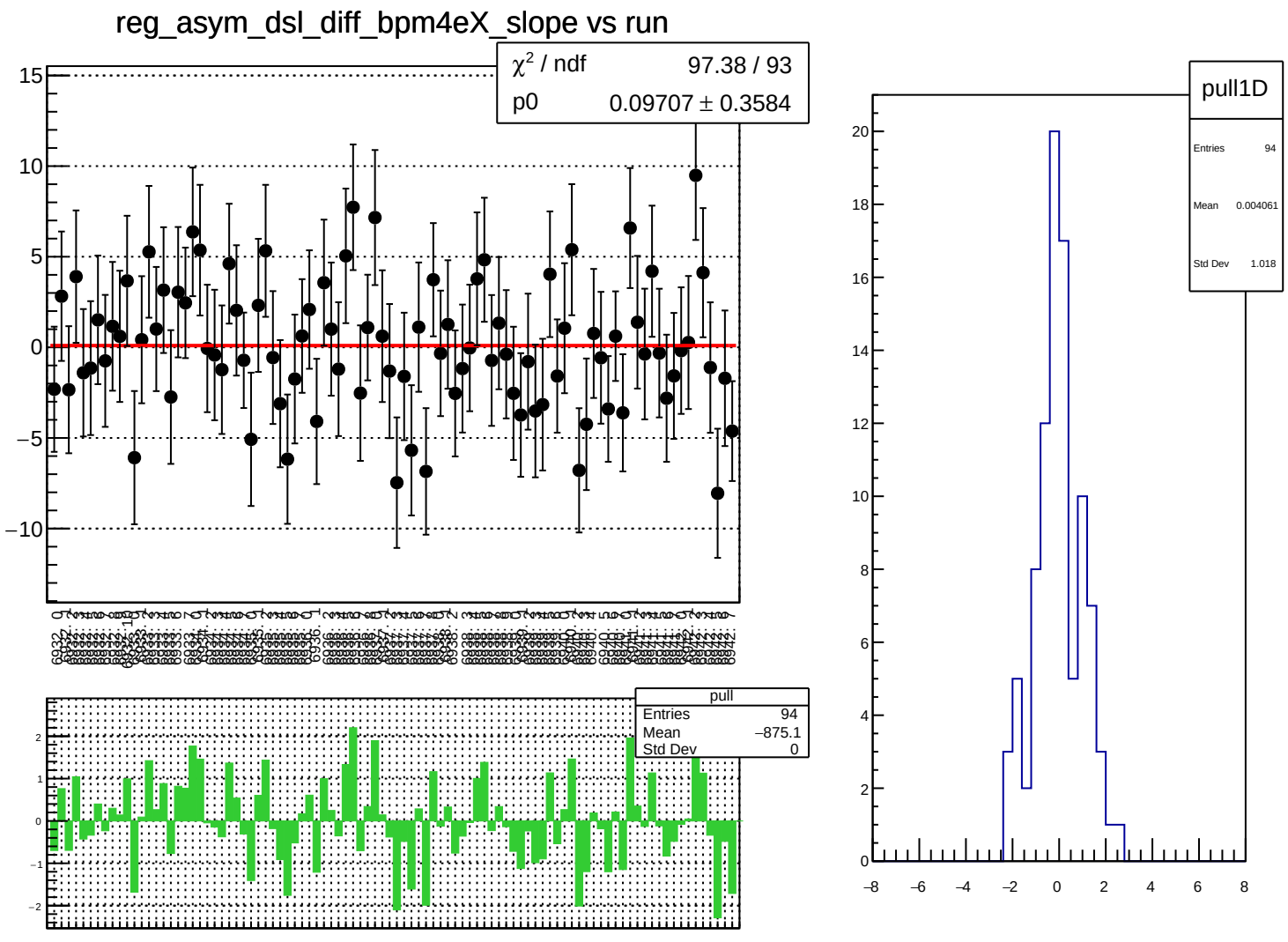

pull1D
Entries 94
Mean −0.002159
Std Dev 0.6135

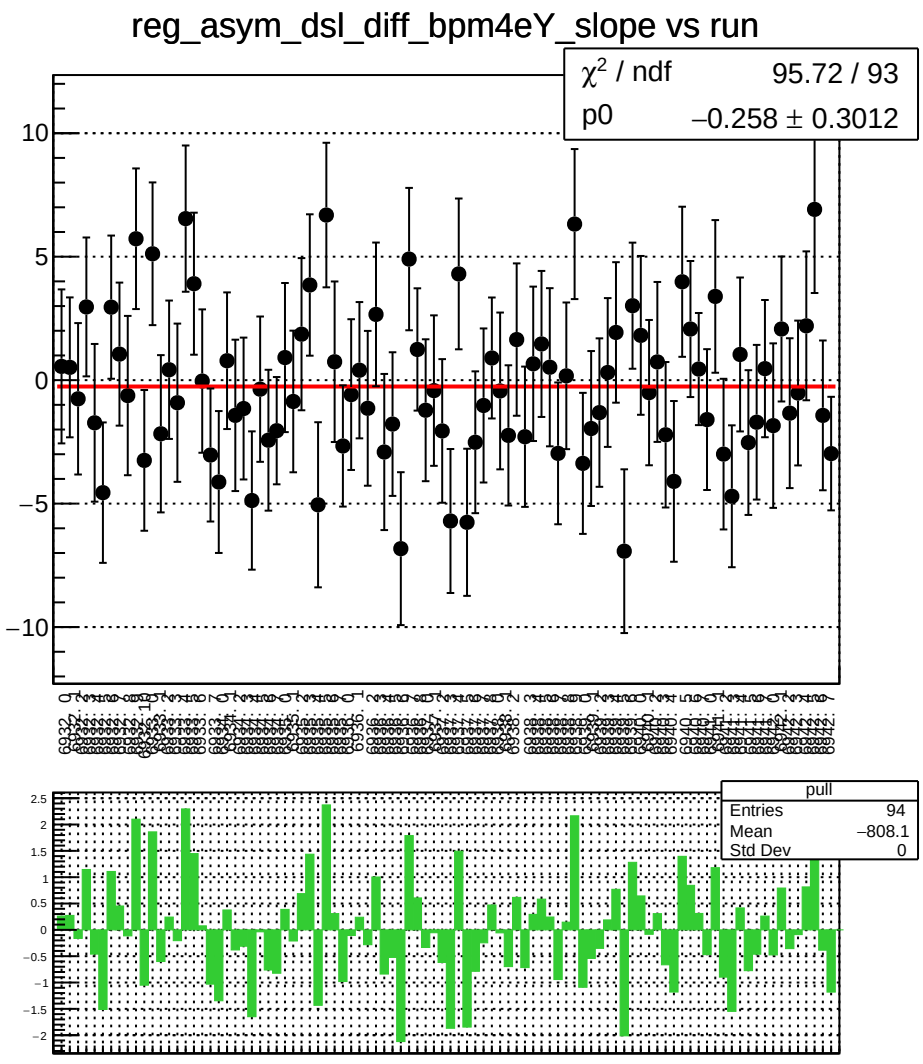

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 96.59 / 93
p0 −0.1113 ± 0.3865
pull
Entries 94
Mean −629.9
Std Dev 0

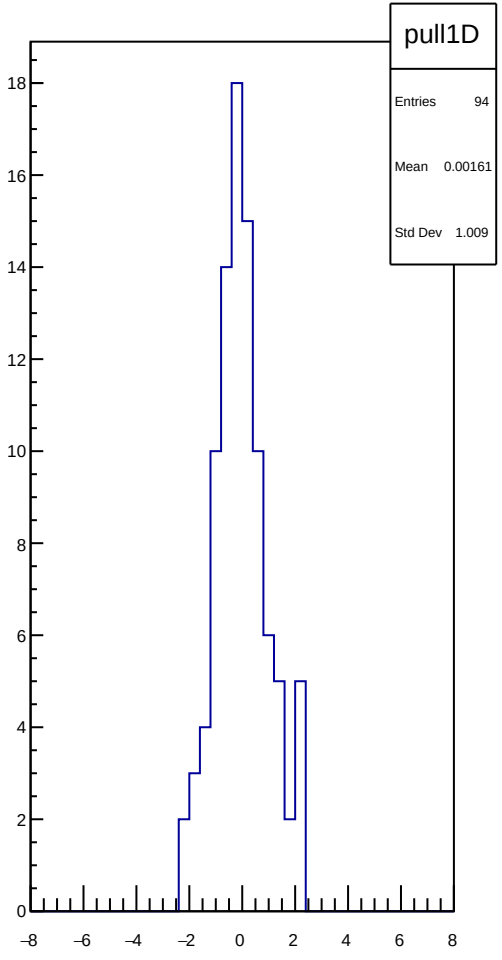

pull1D
Entries 94
Mean −0.00558
Std Dev 1.014

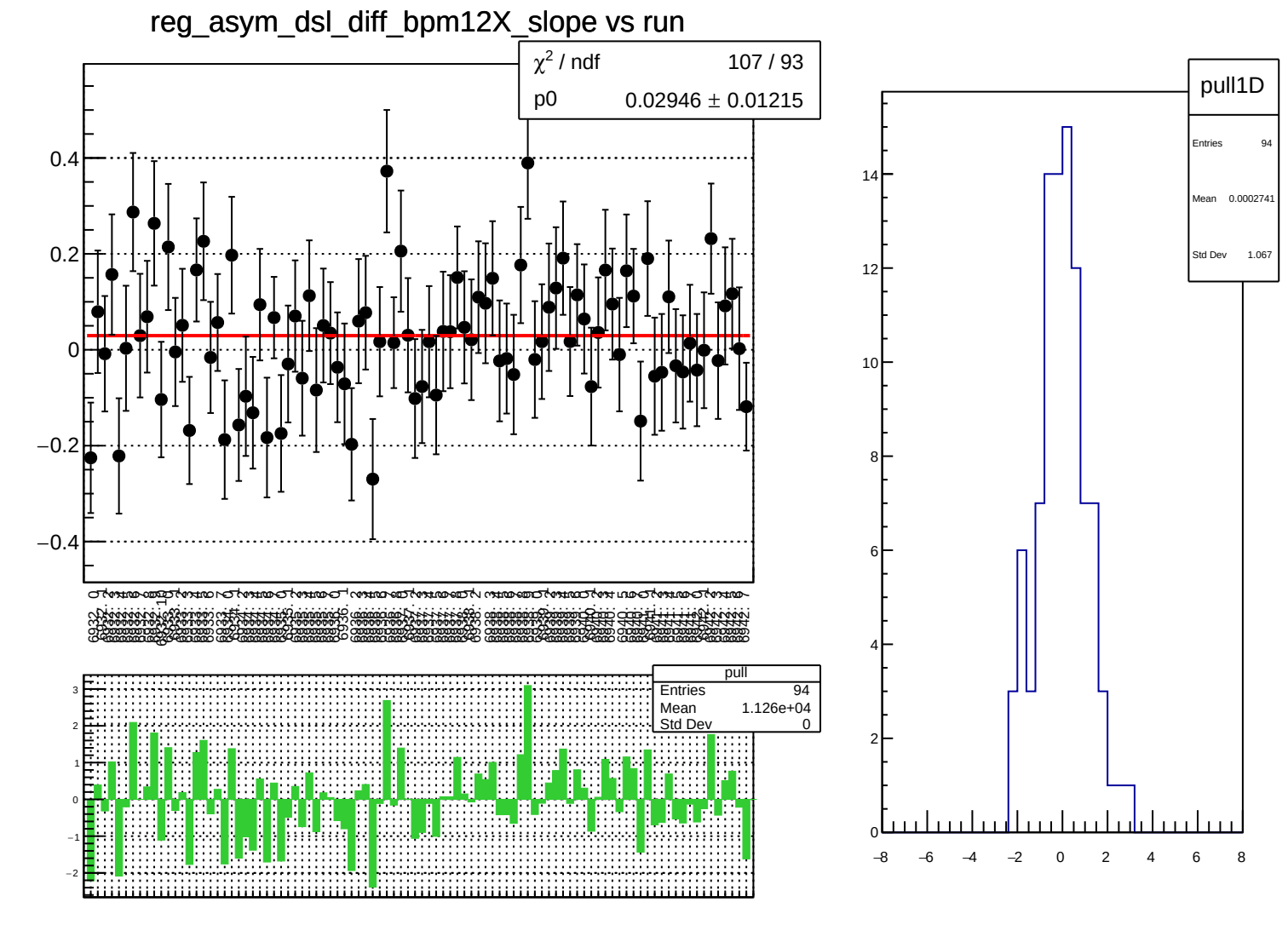

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 88.94 / 93
p0 0.1779 ± 0.2613
pull
Entries 94
Mean −887.9
Std Dev 0

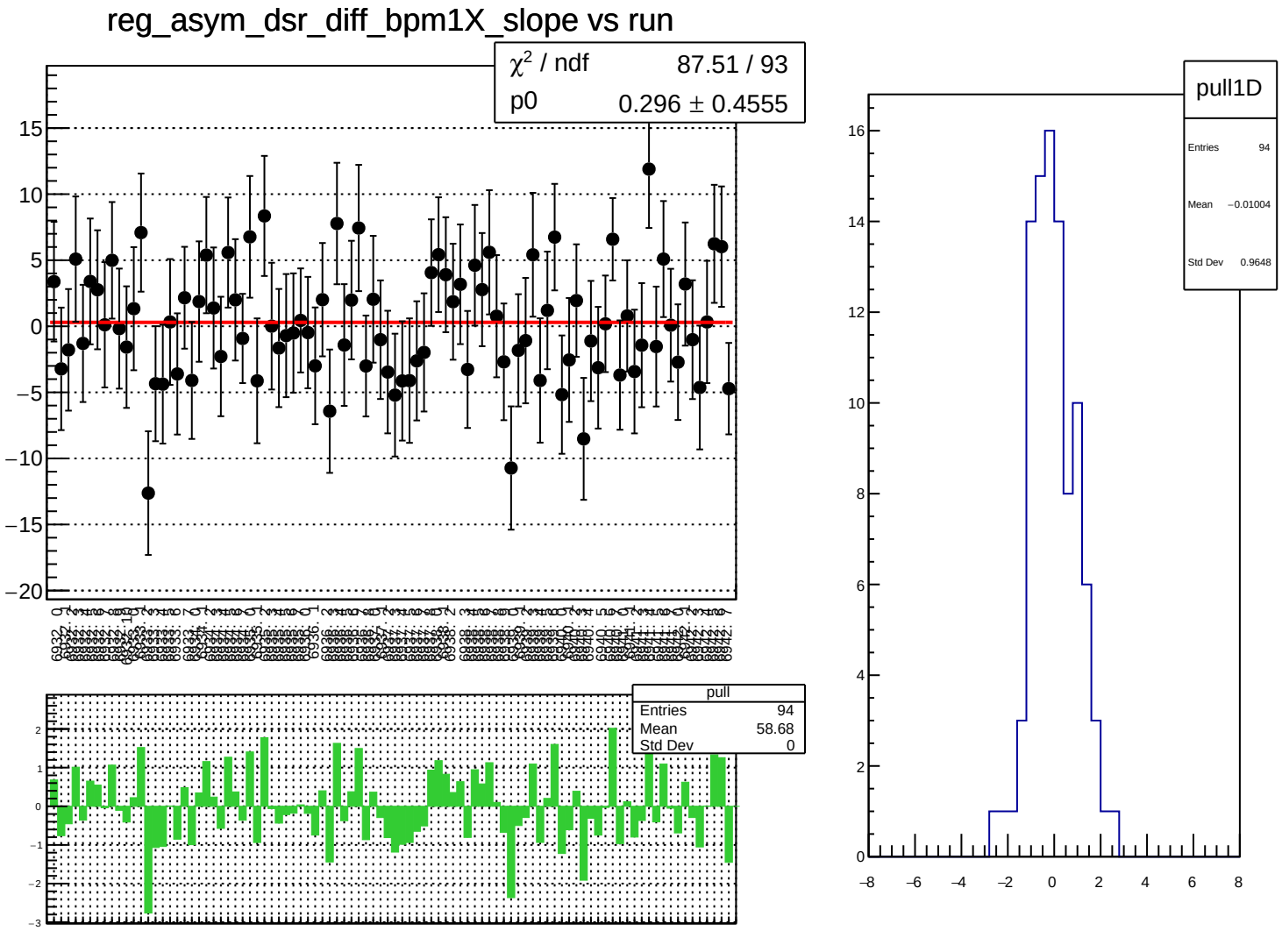

pull1D
Entries 94
Mean −0.003075
Std Dev 0.9727

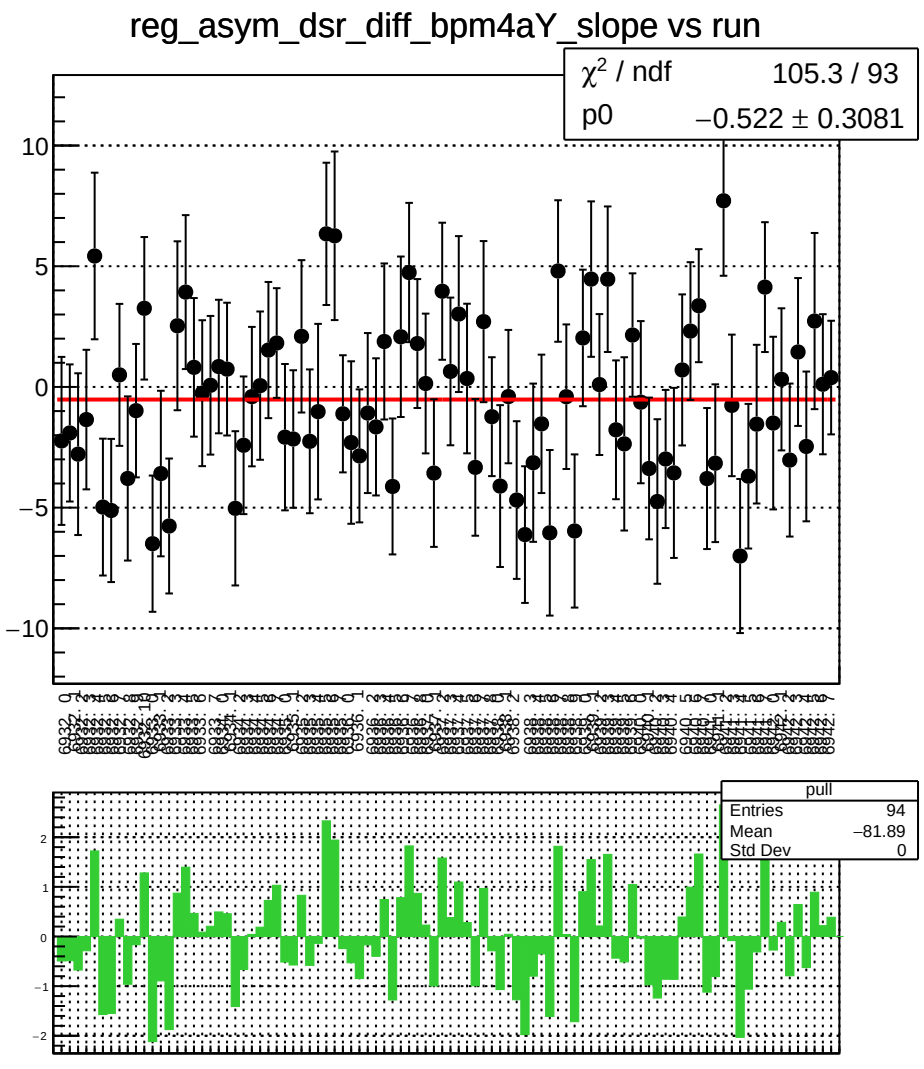

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 97.38 / 93
p0 0.09707 ± 0.3584
pull
Entries 94
Mean −875.1
Std Dev 0
pull1D
Entries 94
Mean 0.004061
Std Dev 1.018

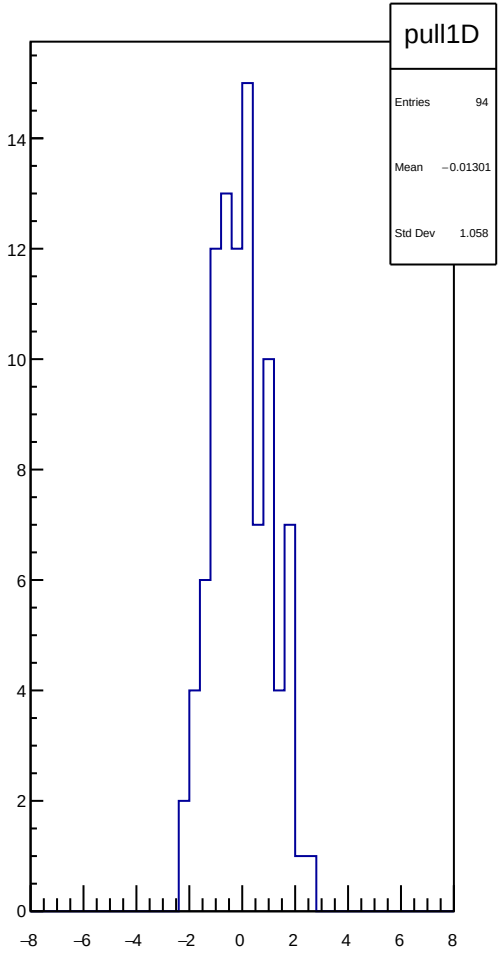

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 95.72 / 93
p0 −0.258 ± 0.3012
pull
Entries 94
Mean −808.1
Std Dev 0

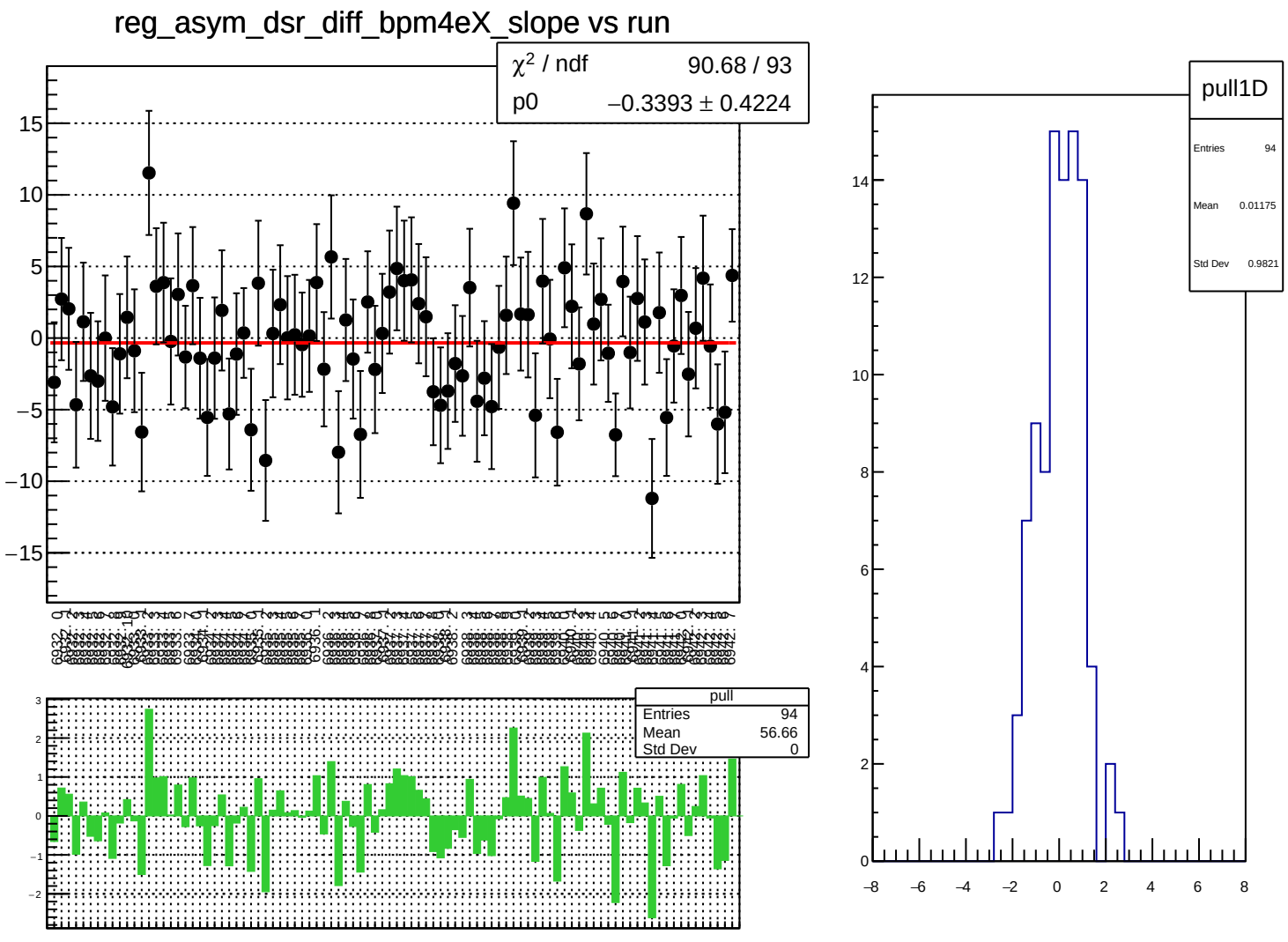

pull1D
Entries 94
Mean 0.00161
Std Dev 1.009

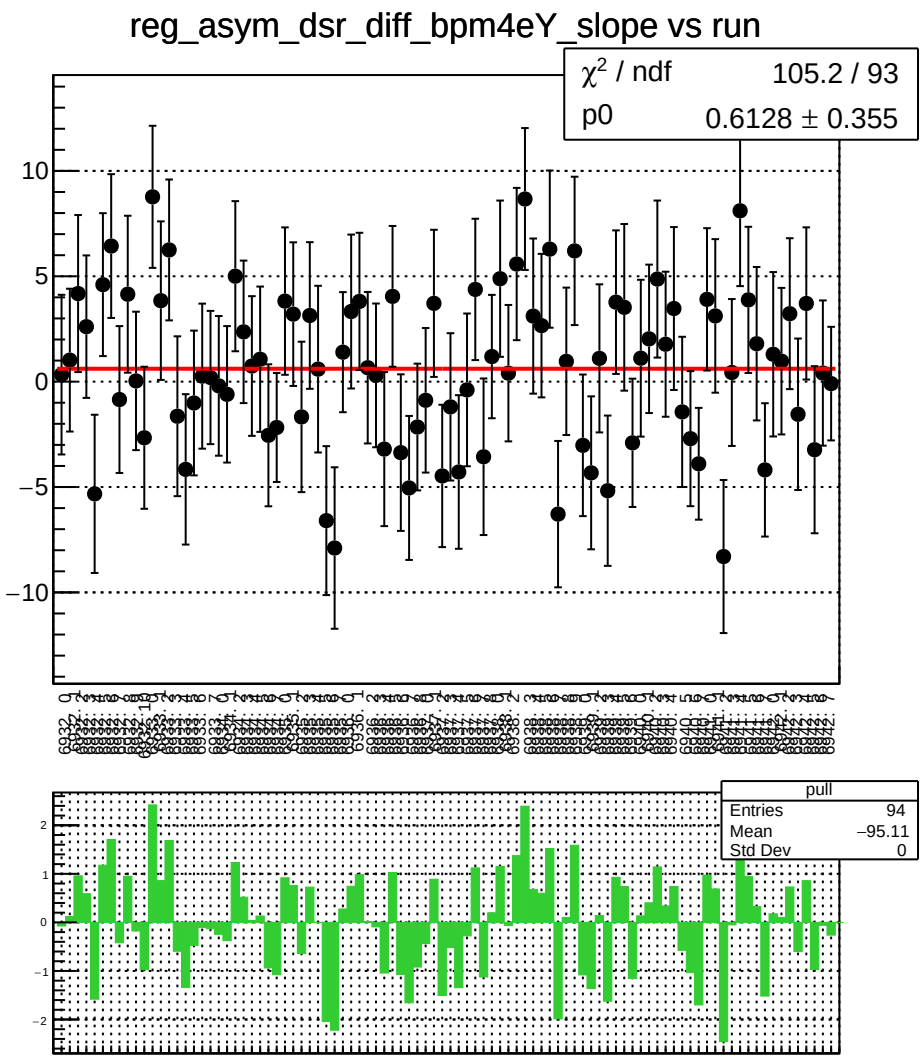

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 107 / 93
p0 0.02946 ± 0.01215
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 1.126e+04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0002741
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

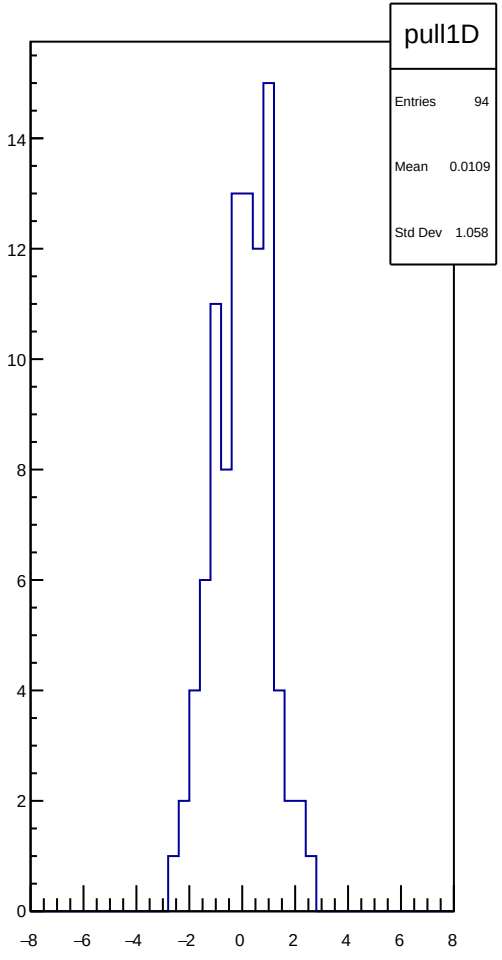

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 87.51 / 93
p0 0.296 ± 0.4555
pull
Entries 94
Mean 58.68
Std Dev 0
pull1D
Entries 94
Mean −0.01004
Std Dev 0.9648

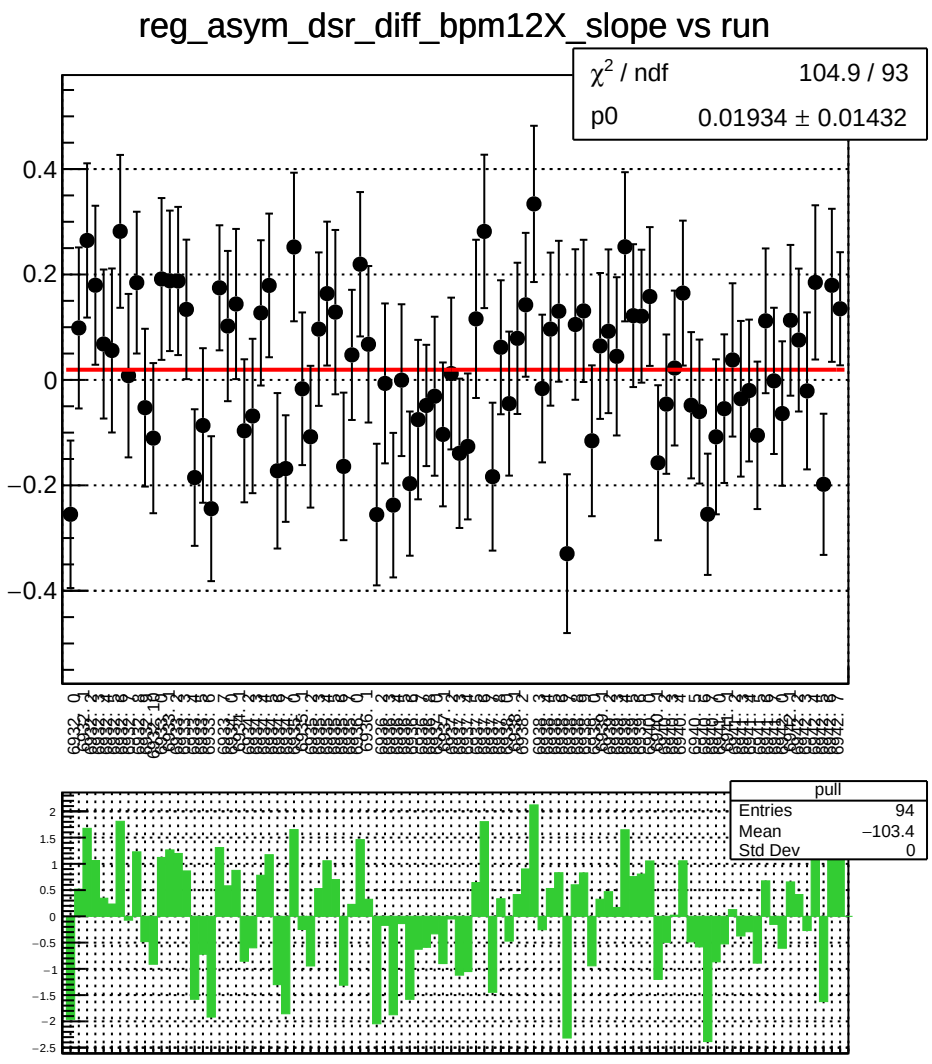

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 105.3 / 93
p0 −0.522 ± 0.3081
pull
Entries 94
Mean −81.89
Std Dev 0

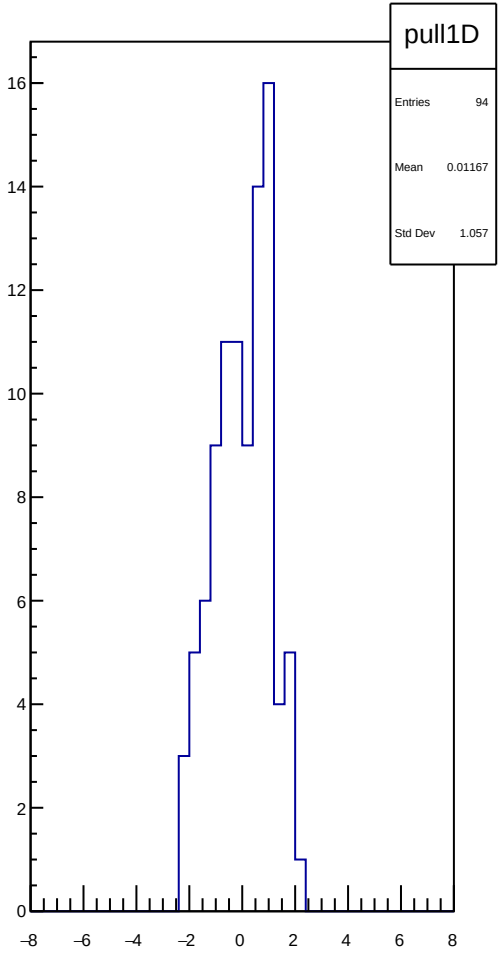

pull1D
Entries 94
Mean −0.01301
Std Dev 1.058

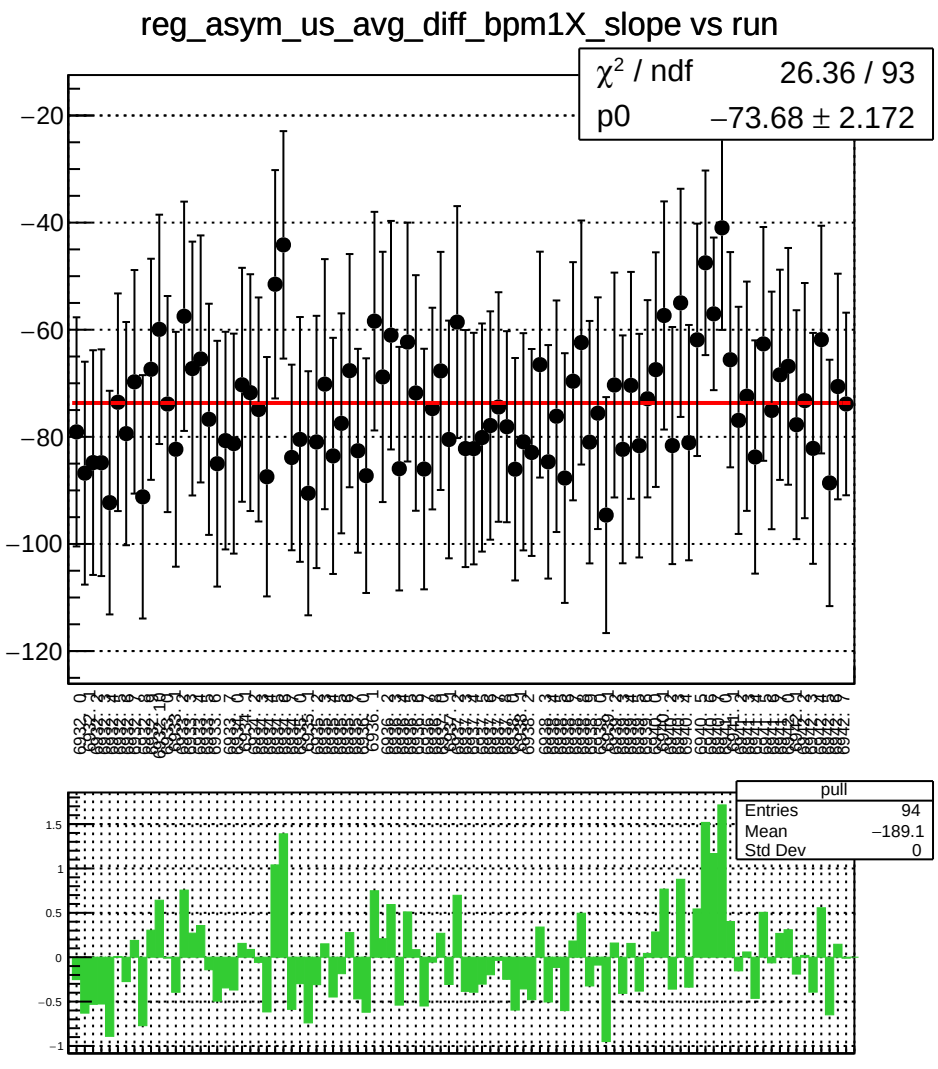

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 90.68 / 93
p0 −0.3393 ± 0.4224
pull
Entries 94
Mean 56.66
Std Dev 0
pull1D
Entries 94
Mean 0.01175
Std Dev 0.9821

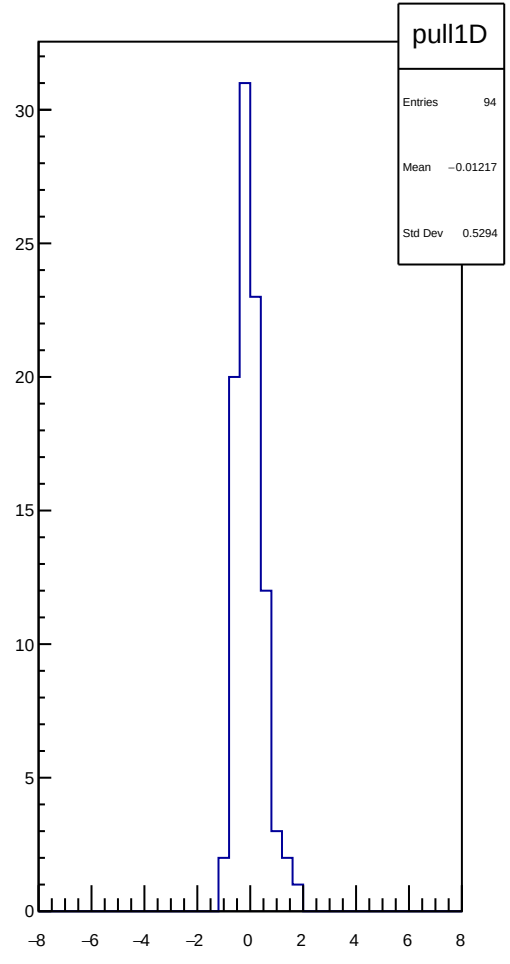

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 105.2 / 93
p0 0.6128 ± 0.355
pull
Entries 94
Mean −95.11
Std Dev 0

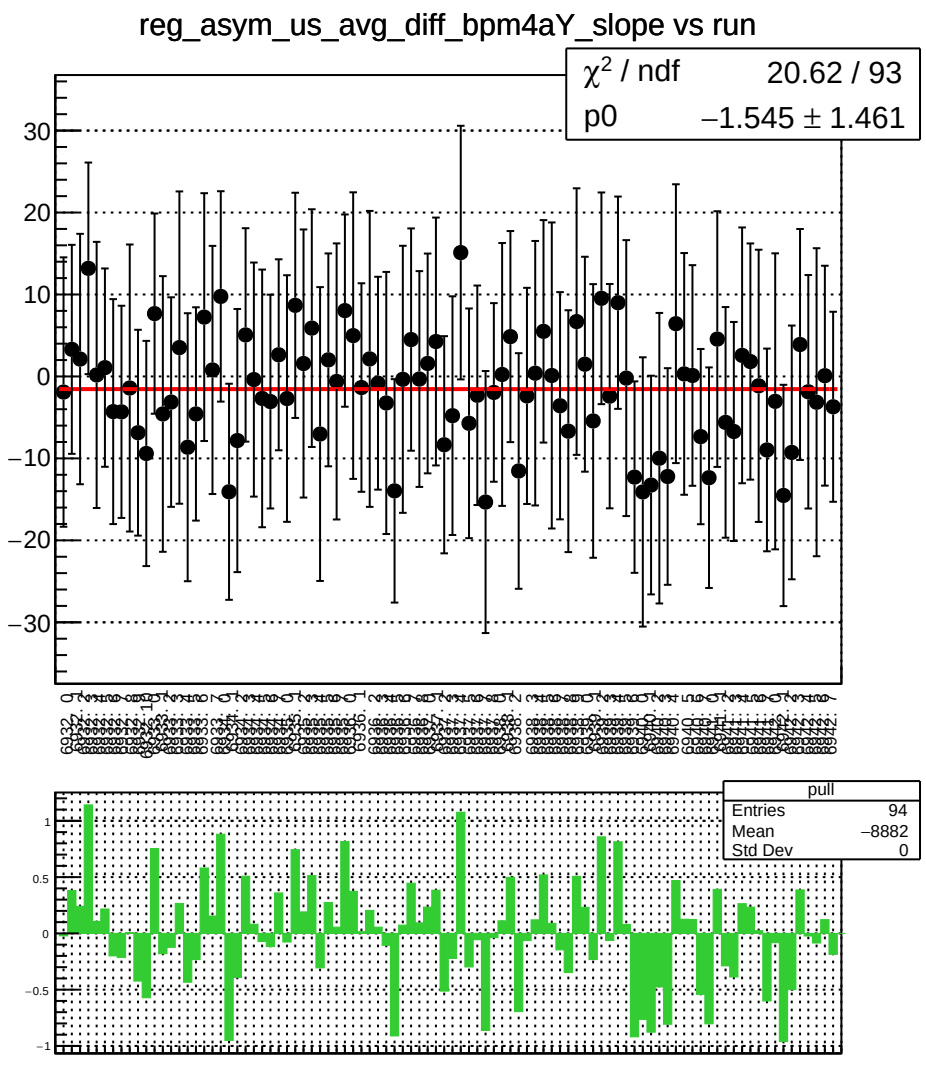

pull1D
Entries 94
Mean 0.0109
Std Dev 1.058

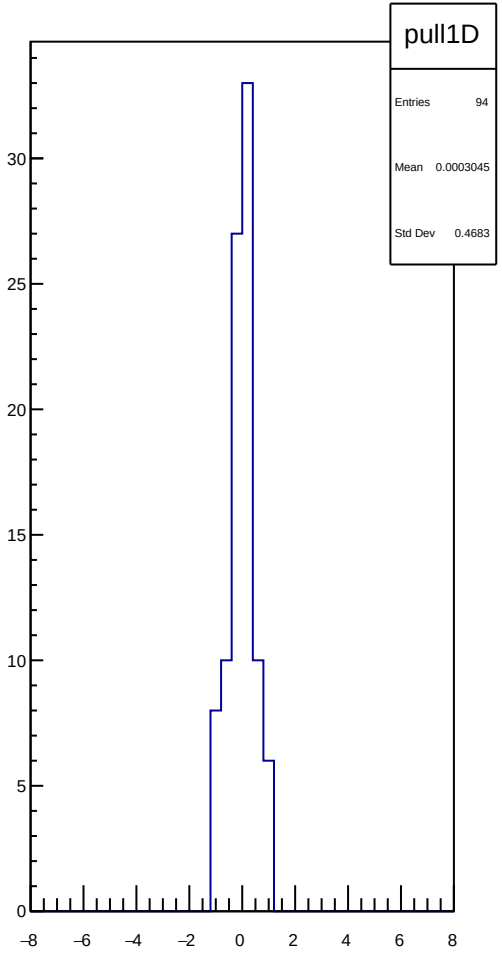

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 104.9 / 93
p0 0.01934 ± 0.01432
pull
Entries 94
Mean −103.4
Std Dev 0

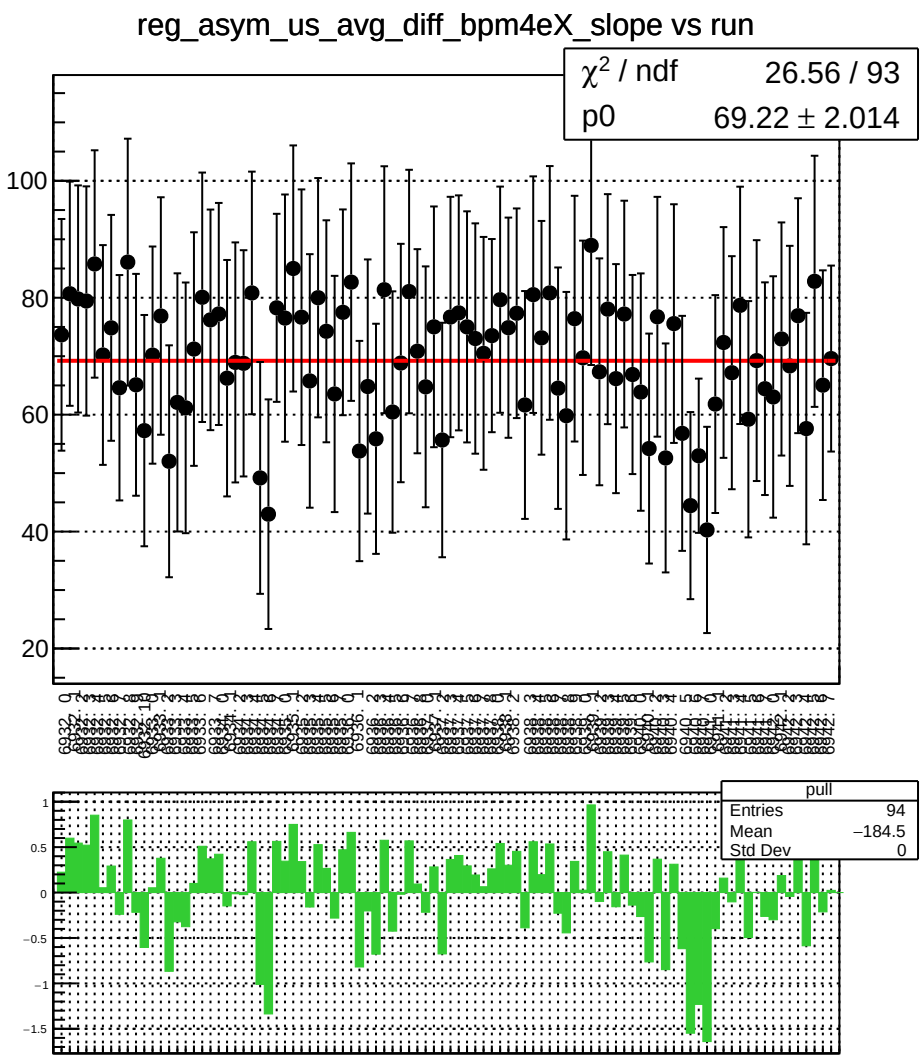

pull1D
Entries 94
Mean 0.01167
Std Dev 1.057

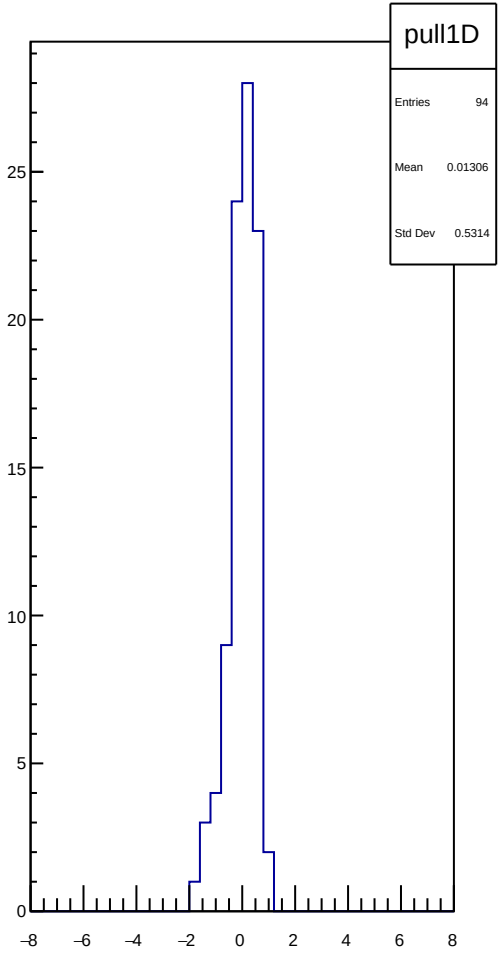

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 26.36 / 93
p0 −73.68 ± 2.172
pull
Entries 94
Mean −189.1
Std Dev 0

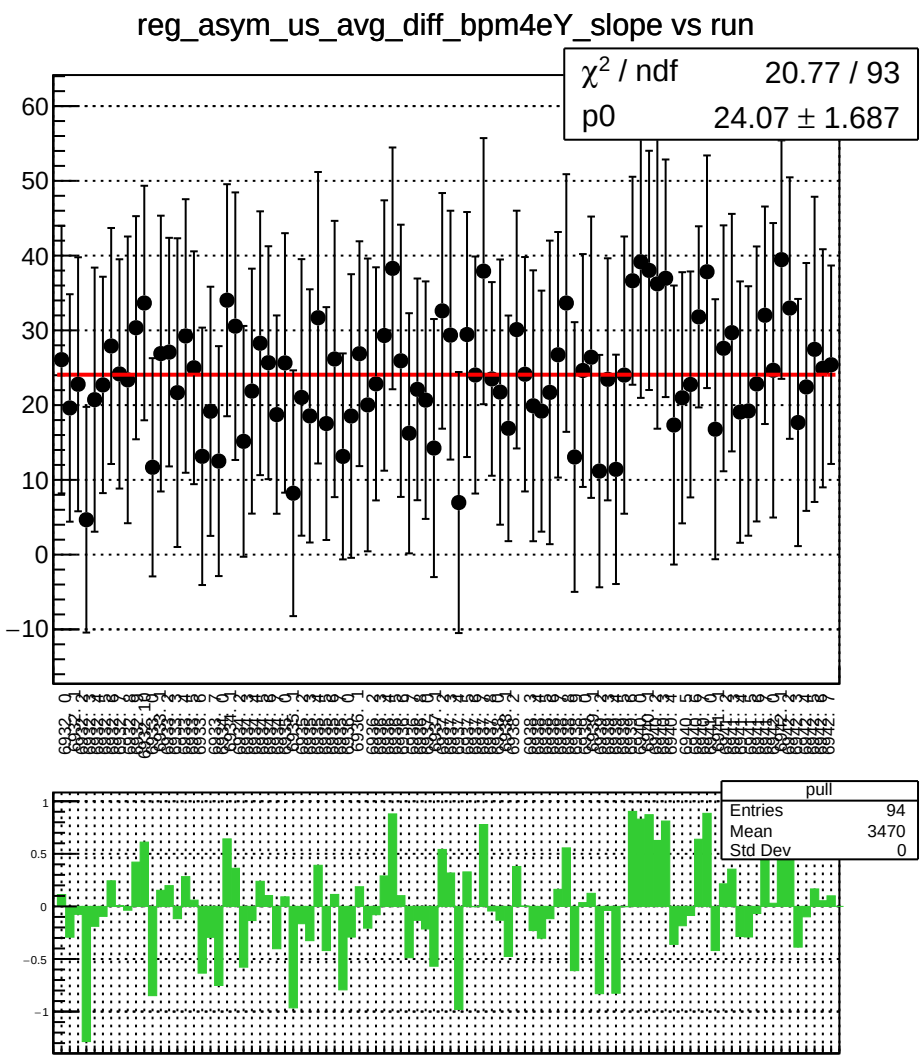

pull1D
Entries 94
Mean −0.01217
Std Dev 0.5294

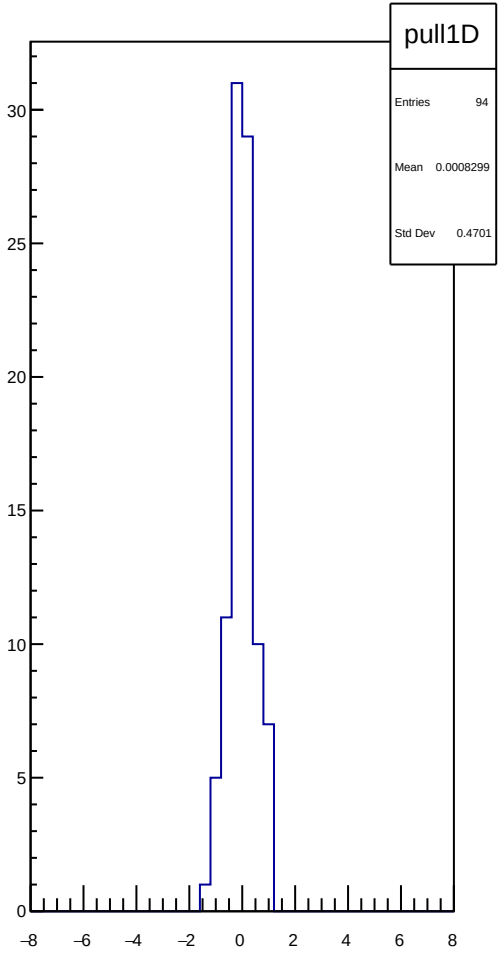

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.62 / 93
p0 −1.545 ± 1.461
pull
Entries 94
Mean −8882
Std Dev 0

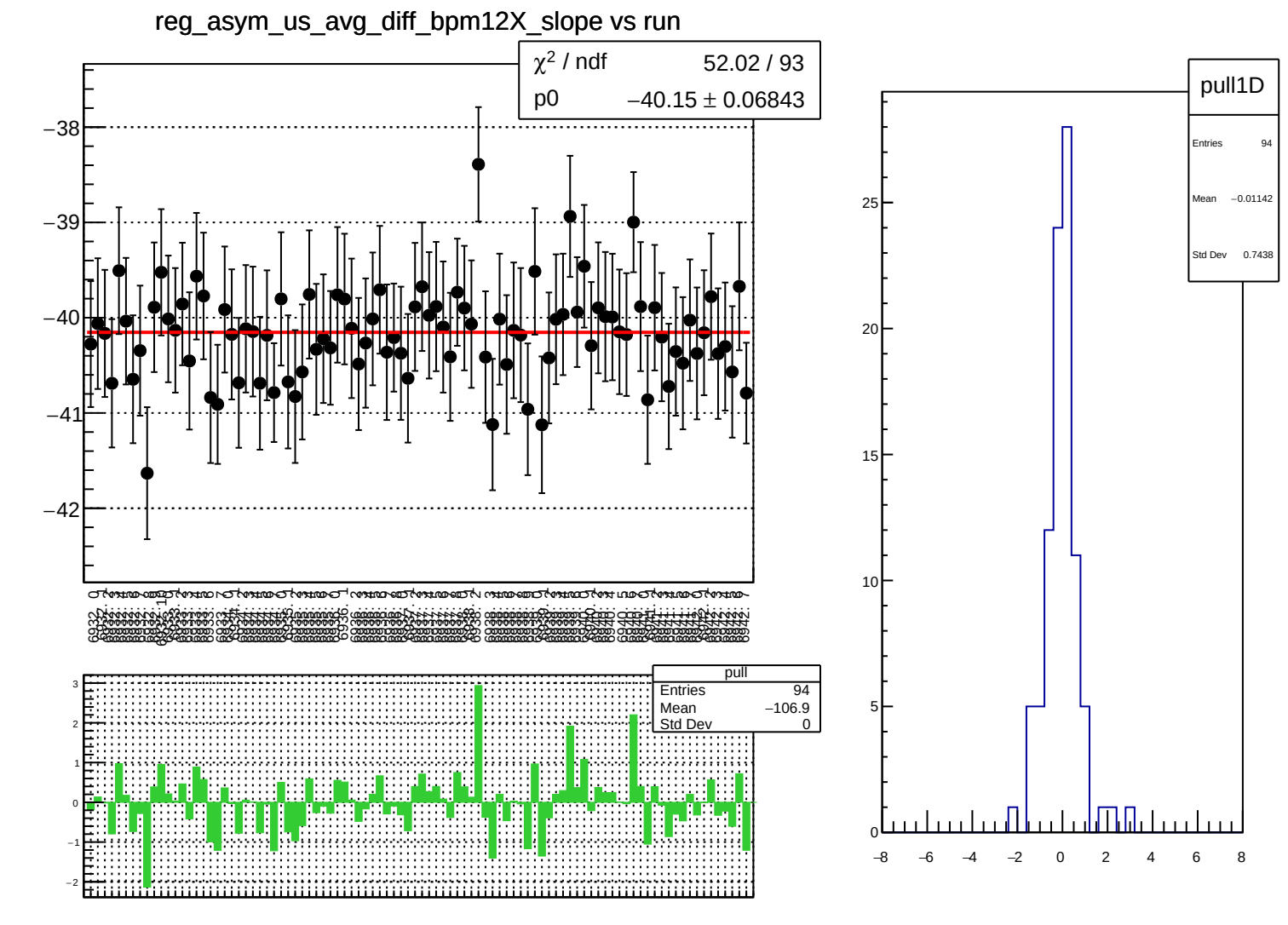

pull1D
Entries 94
Mean 0.0003045
Std Dev 0.4683

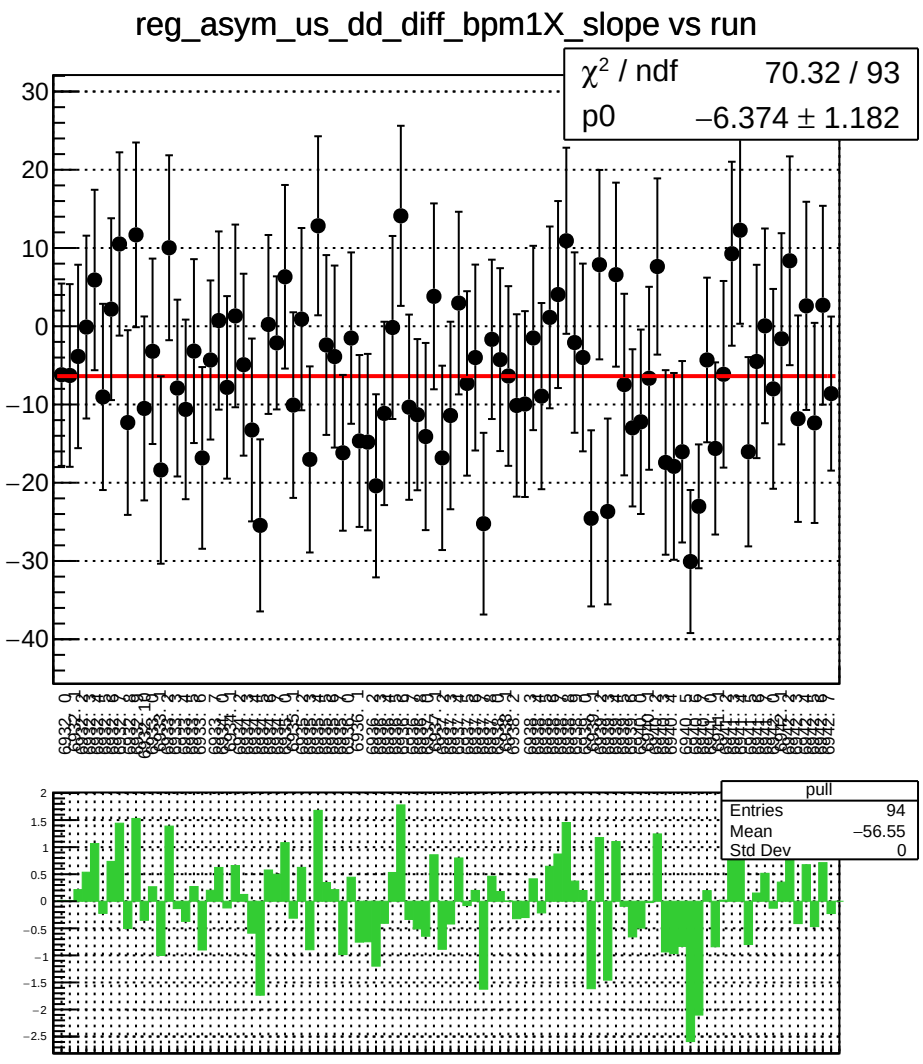

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.56 / 93
p0 69.22 ± 2.014
100
80
60
40
20
pull
Entries 94
Mean −184.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

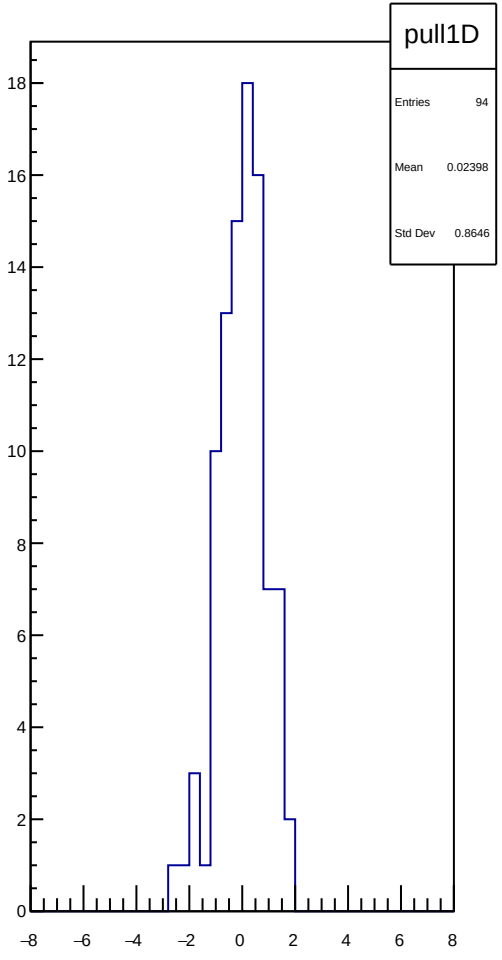

pull1D
Entries 94
Mean 0.01306
Std Dev 0.5314
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

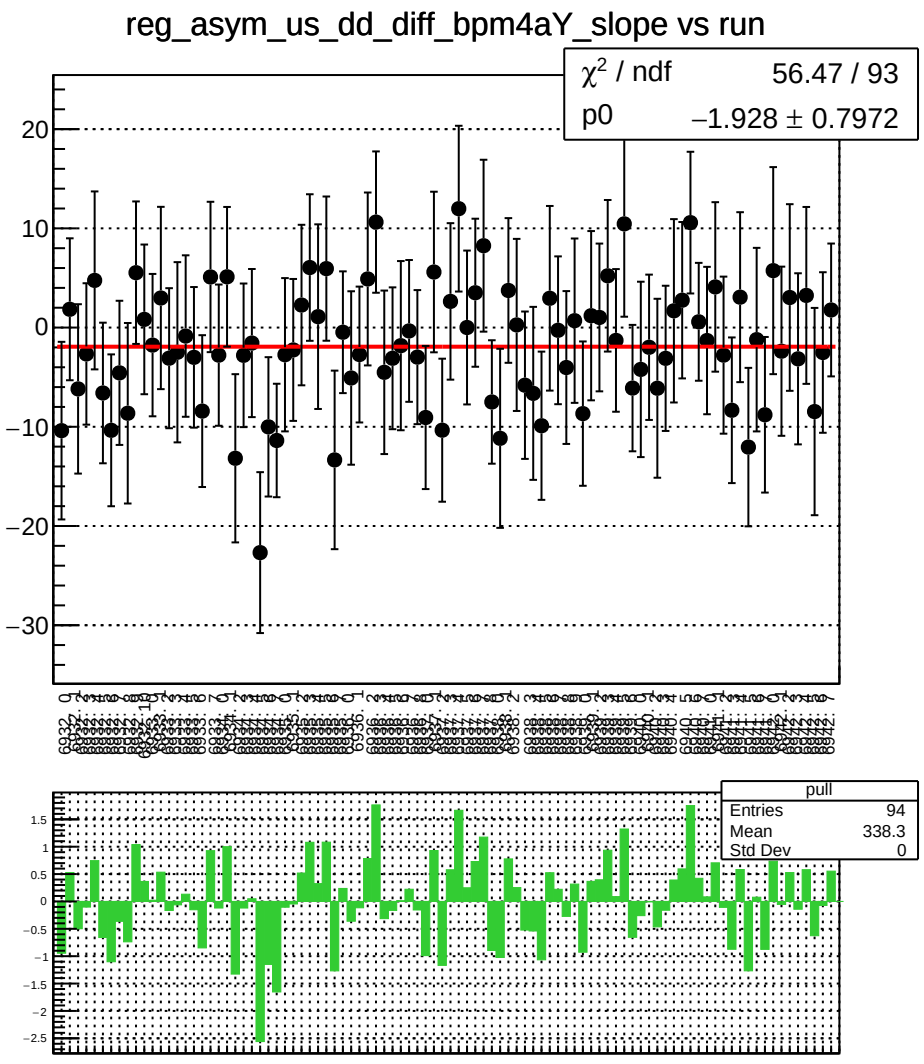

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.77 / 93
p0 24.07 ± 1.687
pull
Entries 94
Mean 3470
Std Dev 0

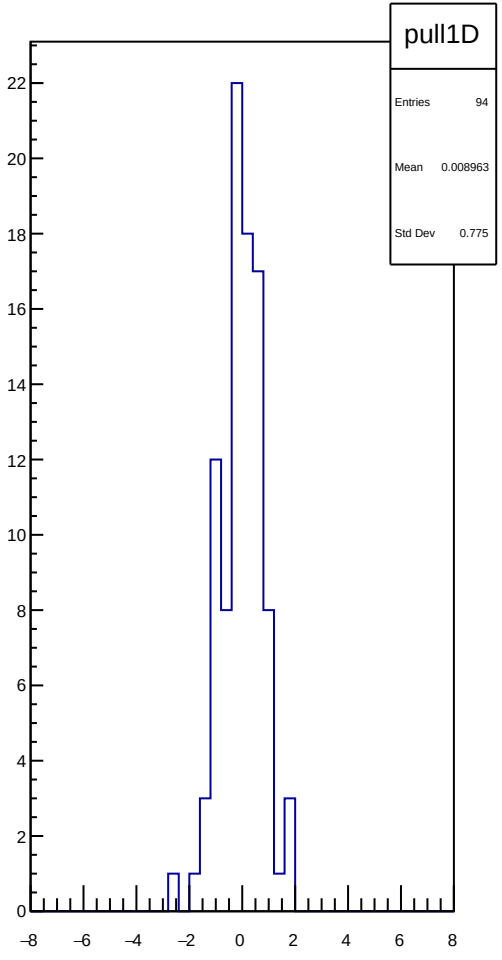

pull1D
Entries 94
Mean 0.0008299
Std Dev 0.4701

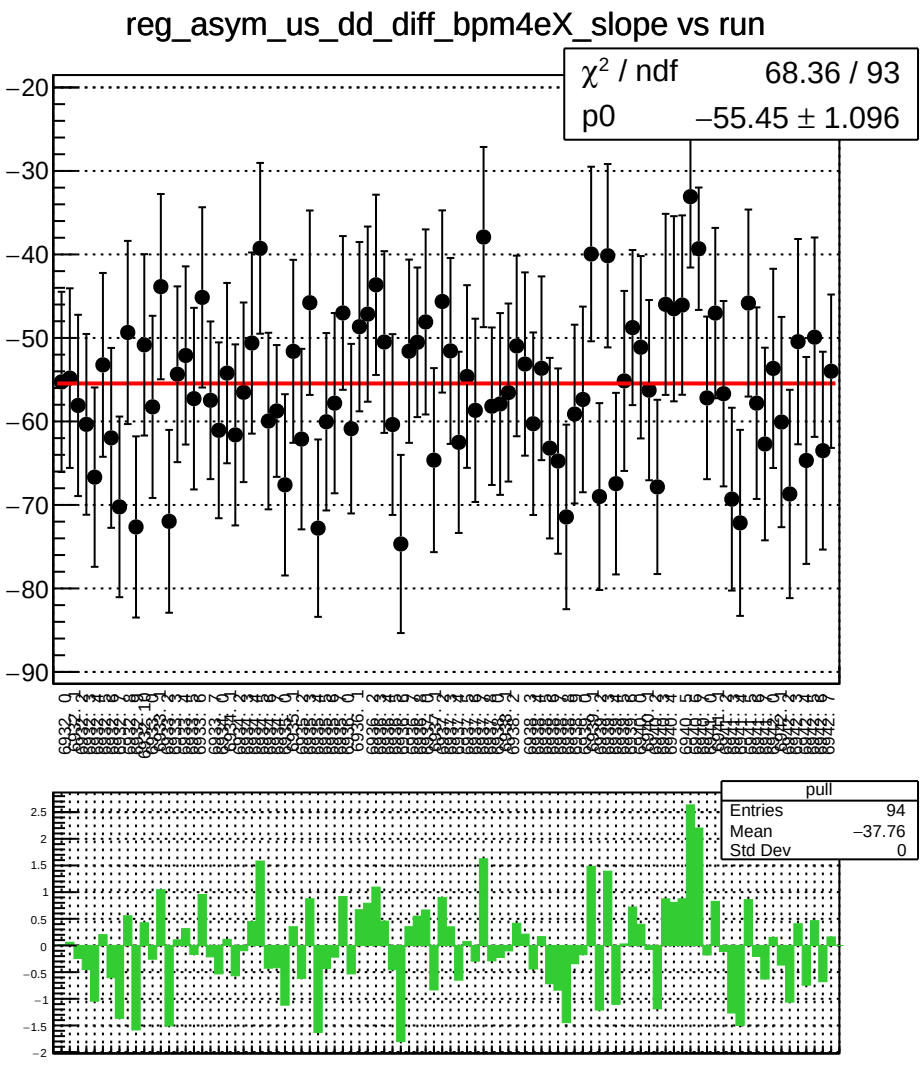

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 52.02 / 93
p0 −40.15 ± 0.06843
−38
−39
−40
−41
−42
pull
Entries 94
Mean −106.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01142
Std Dev 0.7438
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

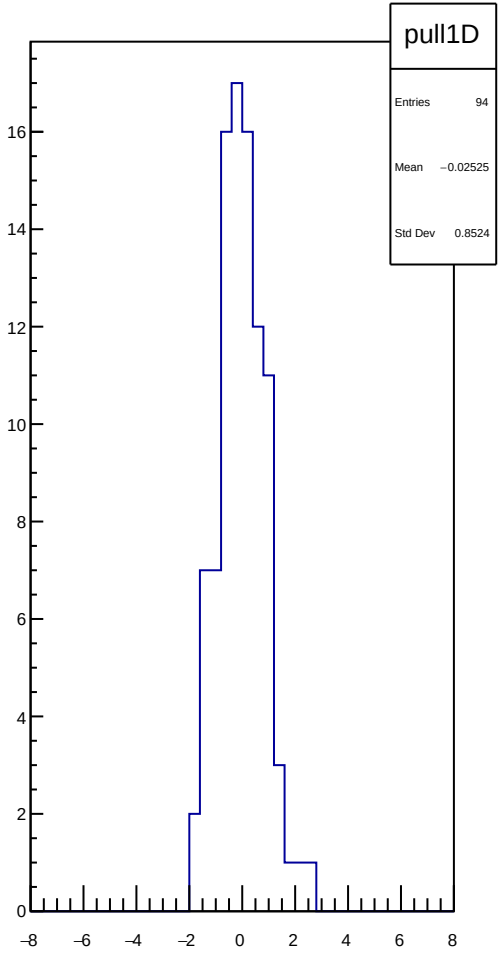

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 70.32 / 93
p0 −6.374 ± 1.182
pull
Entries 94
Mean −56.55
Std Dev 0

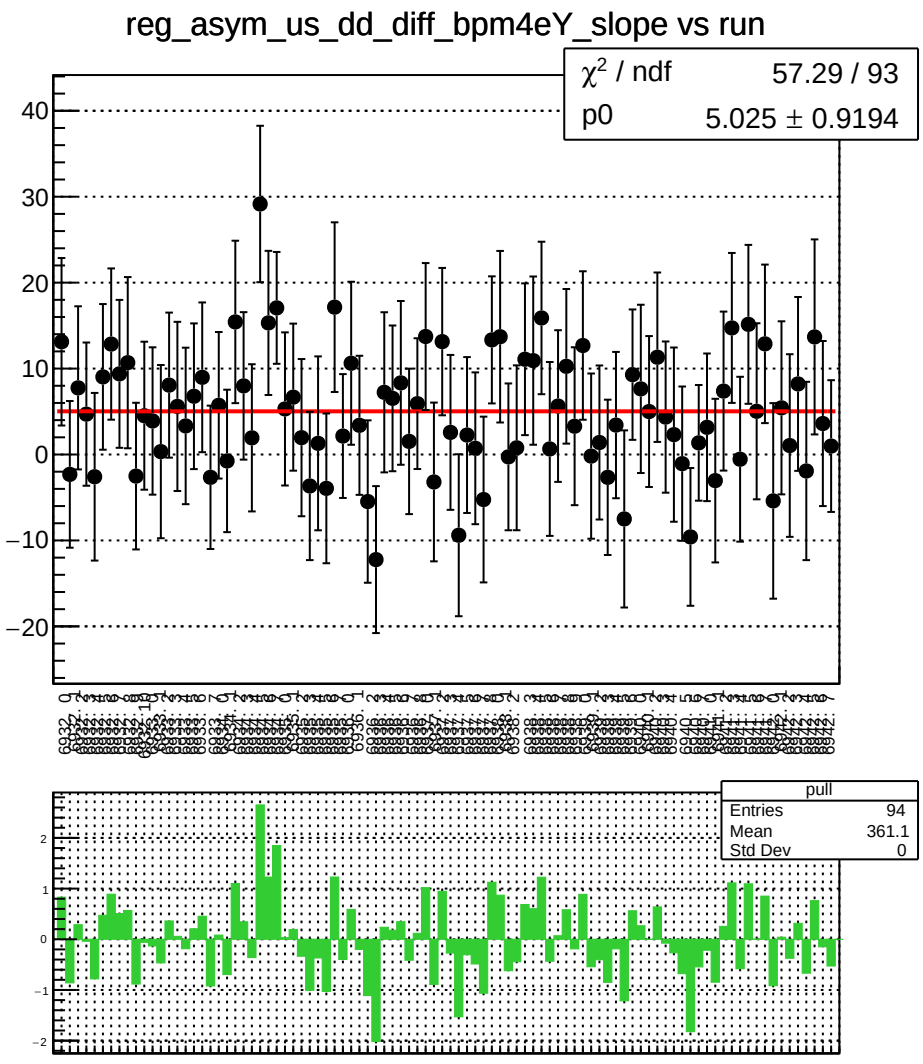

pull1D
Entries 94
Mean 0.02398
Std Dev 0.8646

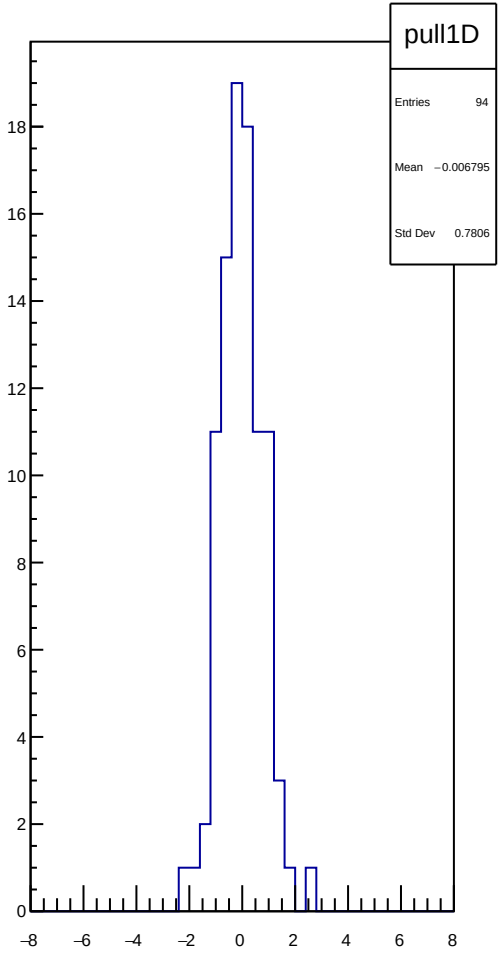

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.47 / 93
p0 −1.928 ± 0.7972
pull
Entries 94
Mean 338.3
Std Dev 0

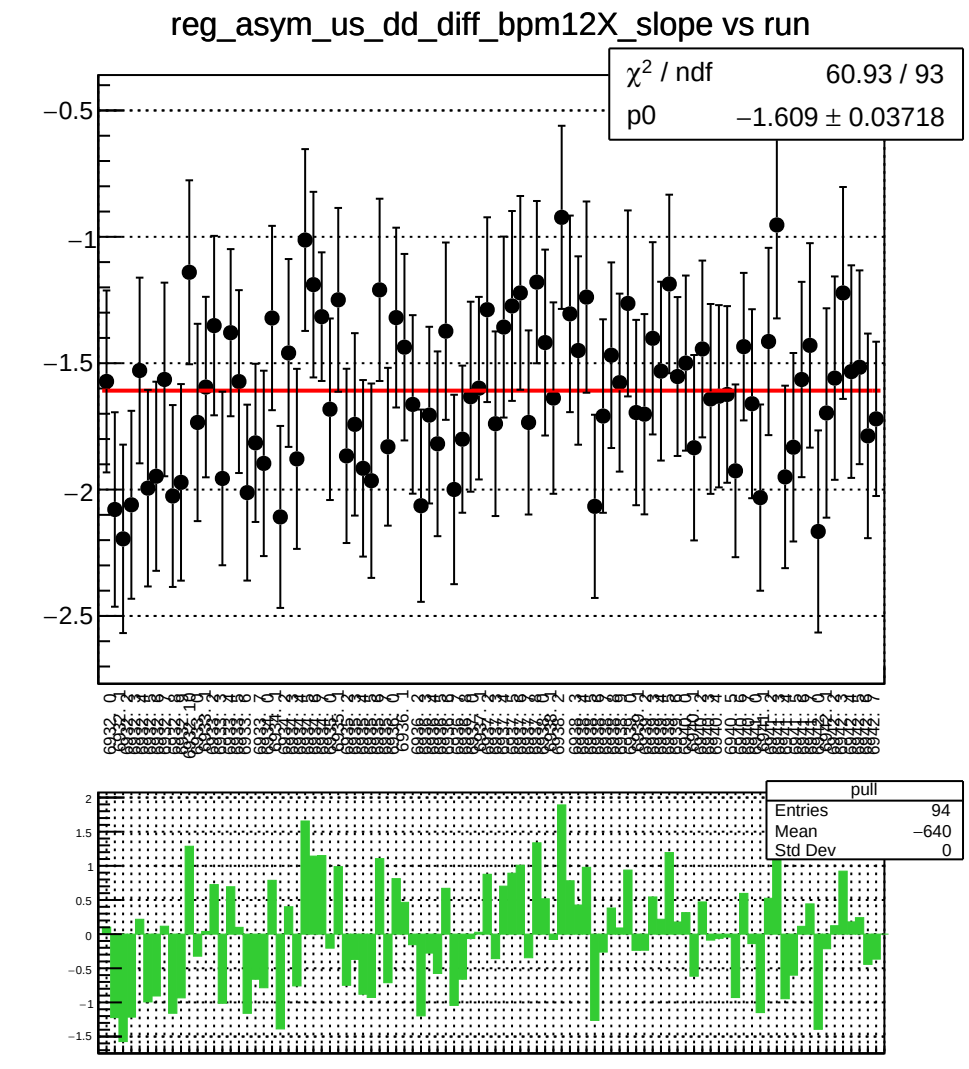

pull1D
Entries 94
Mean 0.008963
Std Dev 0.775

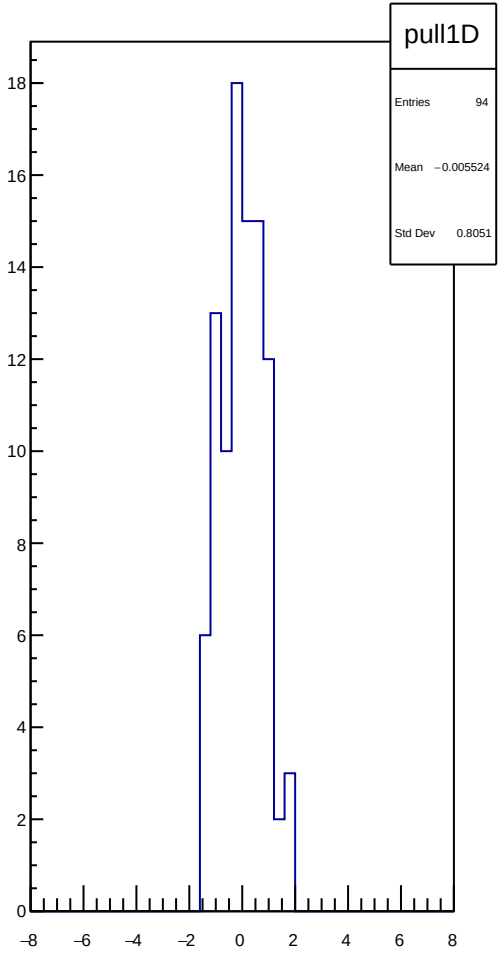

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.36 / 93
p0 −55.45 ± 1.096
pull
Entries 94
Mean −37.76
Std Dev 0

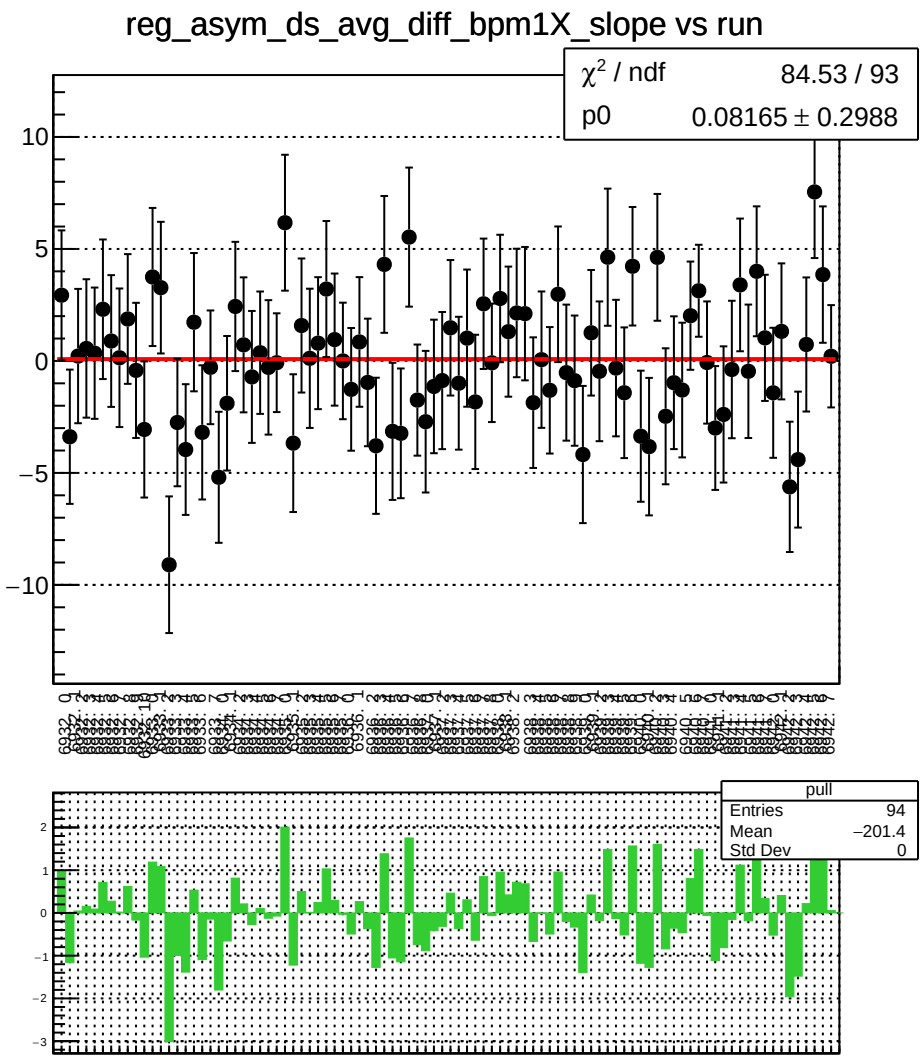

pull1D
Entries 94
Mean −0.02525
Std Dev 0.8524

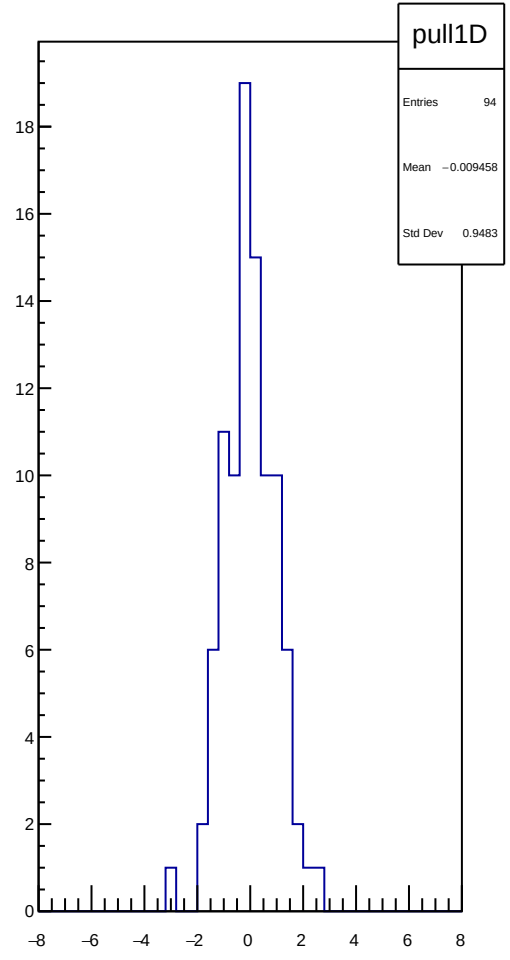

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.29 / 93
p0 5.025 ± 0.9194
pull
Entries 94
Mean 361.1
Std Dev 0

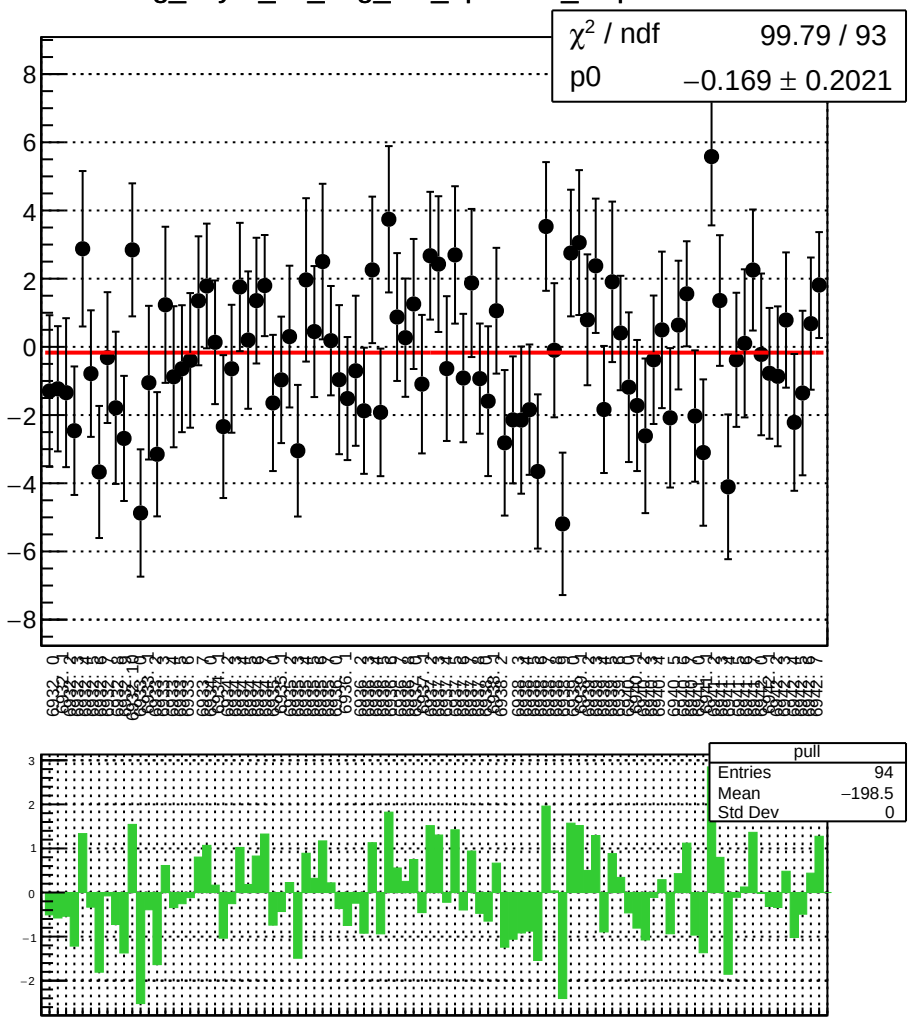

pull1D
Entries 94
Mean −0.006795
Std Dev 0.7806

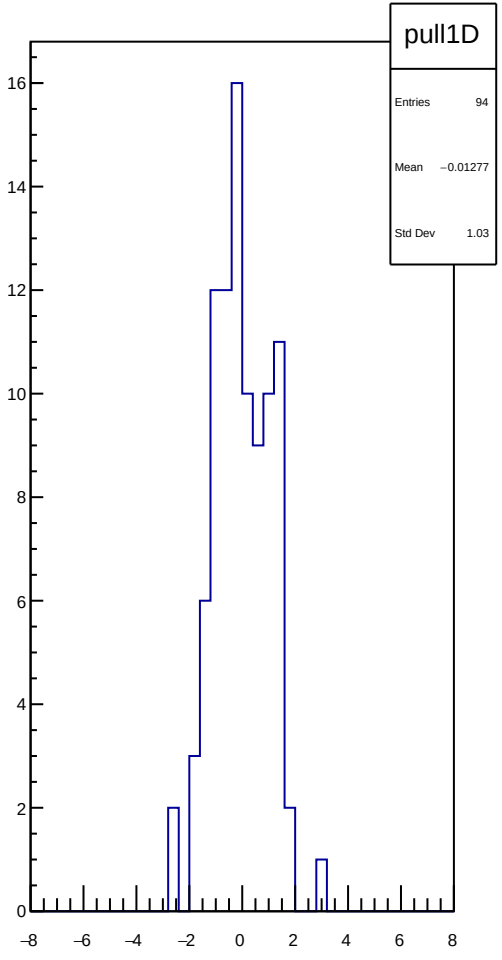

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 60.93 / 93
p0 −1.609 ± 0.03718
pull
Entries 94
Mean −640
Std Dev 0

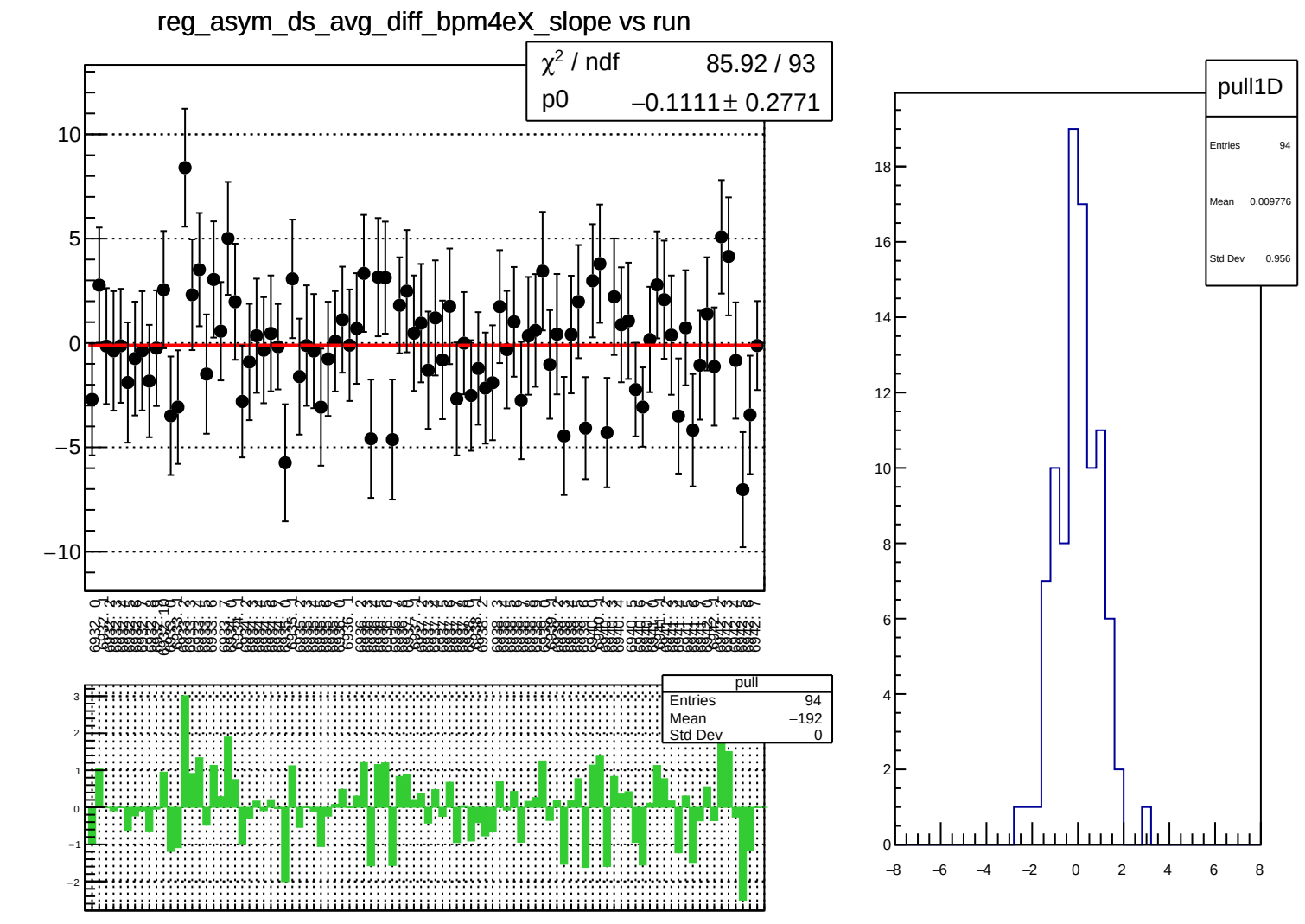

pull1D
Entries 94
Mean −0.005524
Std Dev 0.8051

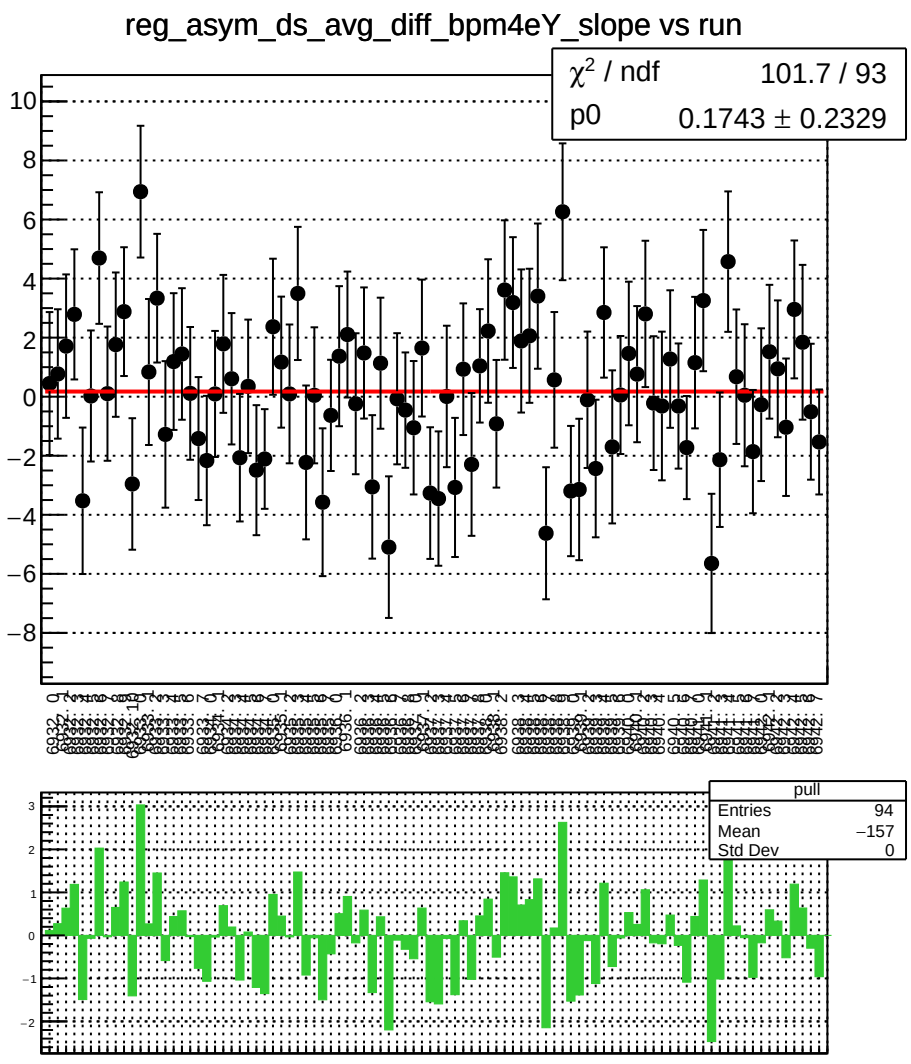

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ^2 / ndf 84.53 / 93
p0 0.08165 ± 0.2988
pull
Entries 94
Mean −201.4
Std Dev 0

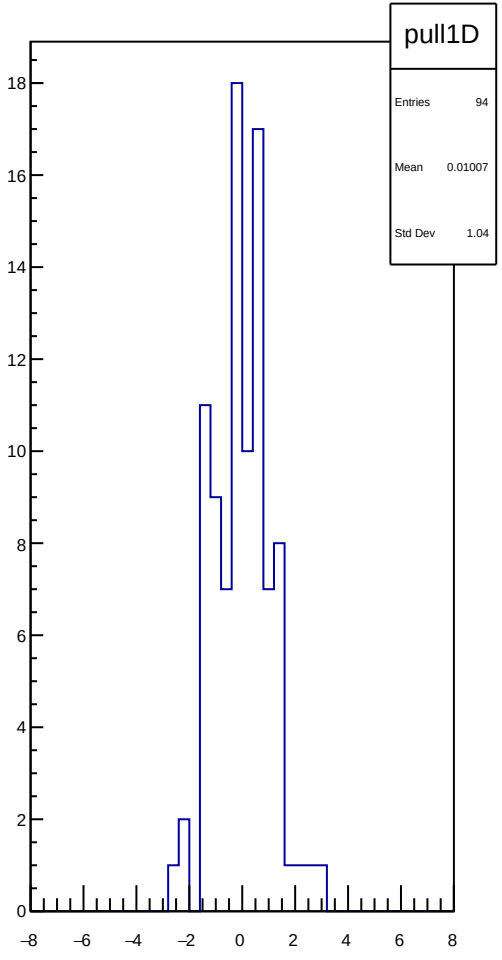

pull1D
Entries 94
Mean −0.009458
Std Dev 0.9483

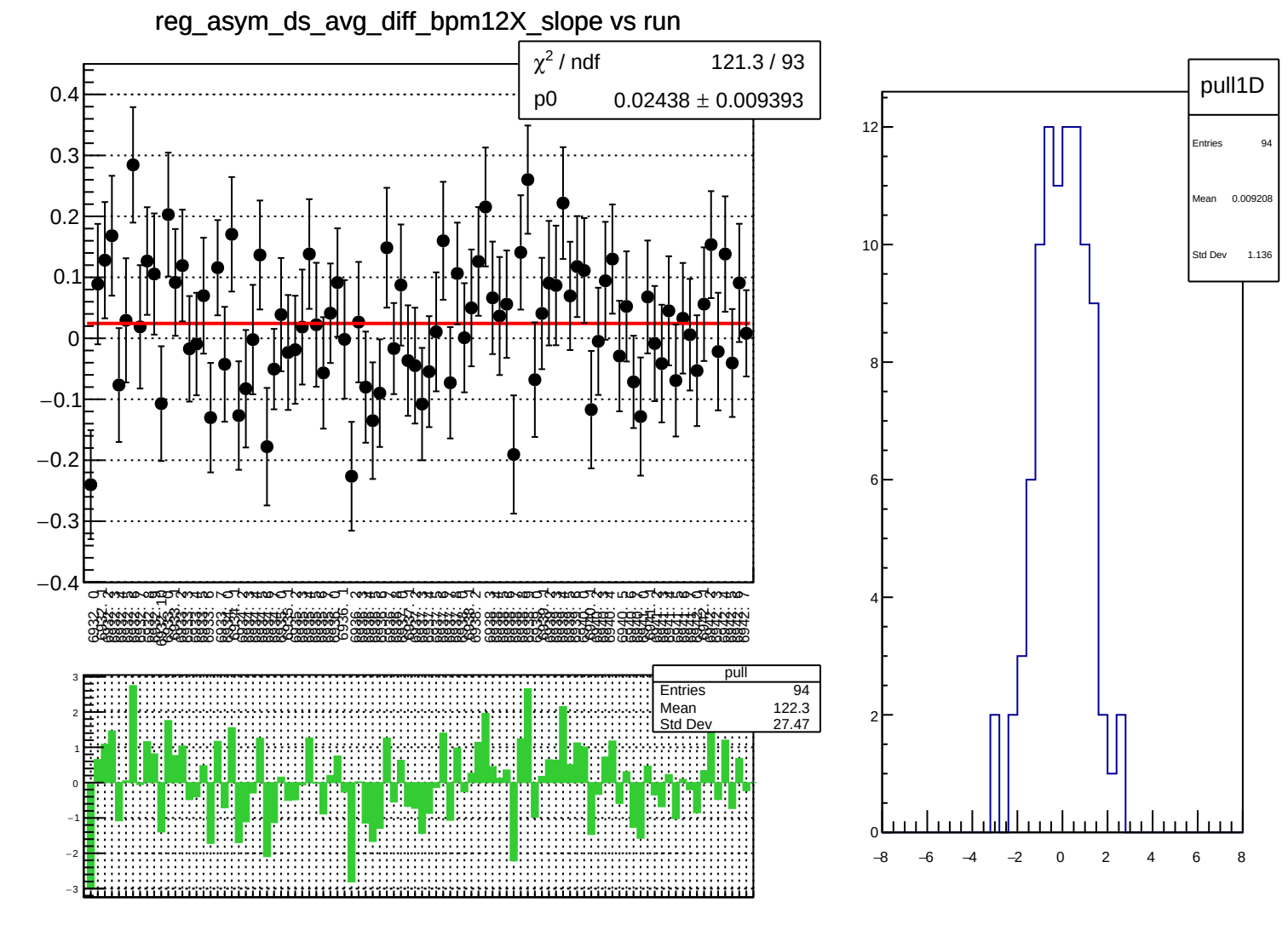

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.79 / 93
p0 −0.169 ± 0.2021
pull
Entries 94
Mean −198.5
Std Dev 0

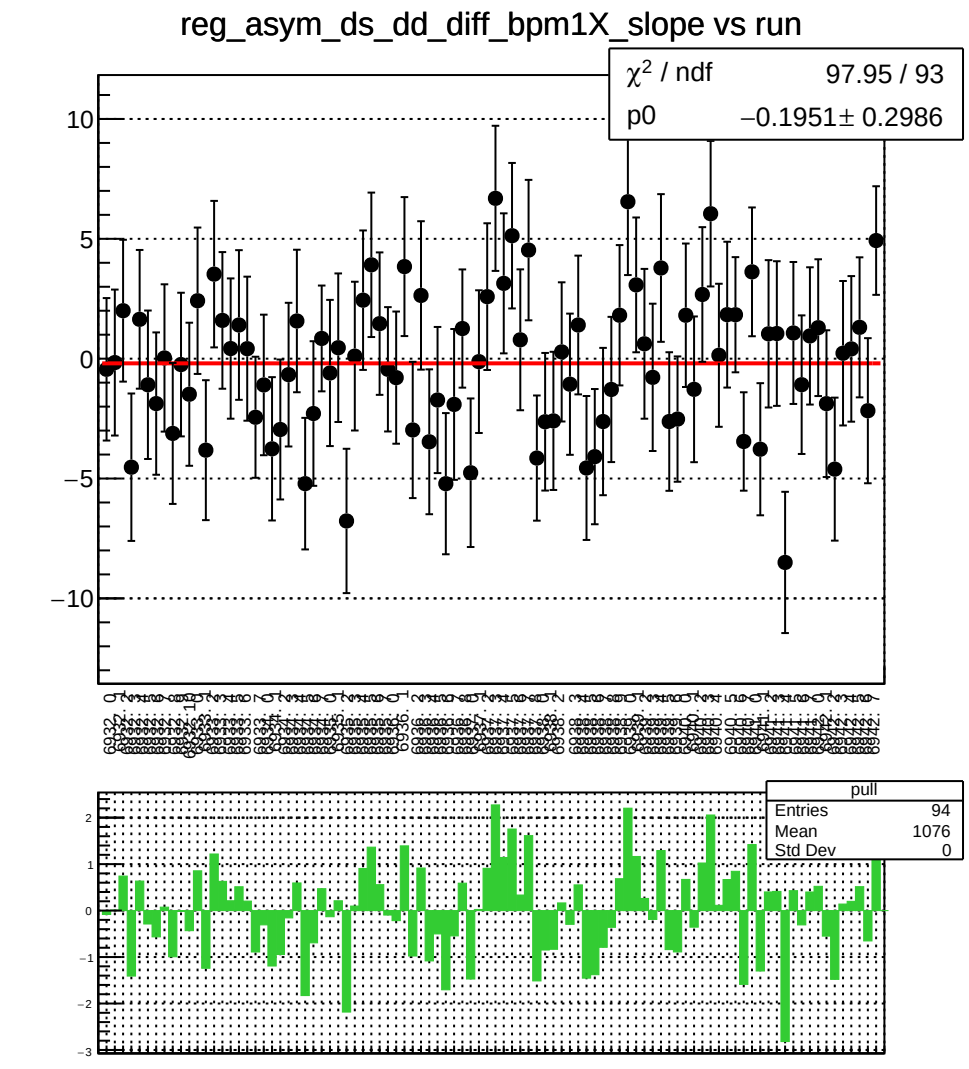

pull1D
Entries 94
Mean −0.01277
Std Dev 1.03

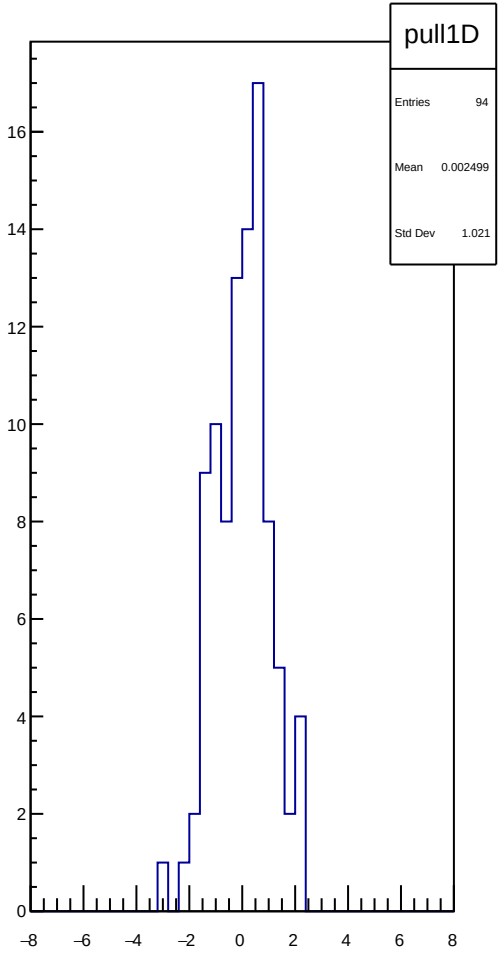

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.92 / 93
p0 −0.1111 ± 0.2771
pull
Entries 94
Mean −192
Std Dev 0
pull1D
Entries 94
Mean 0.009776
Std Dev 0.956

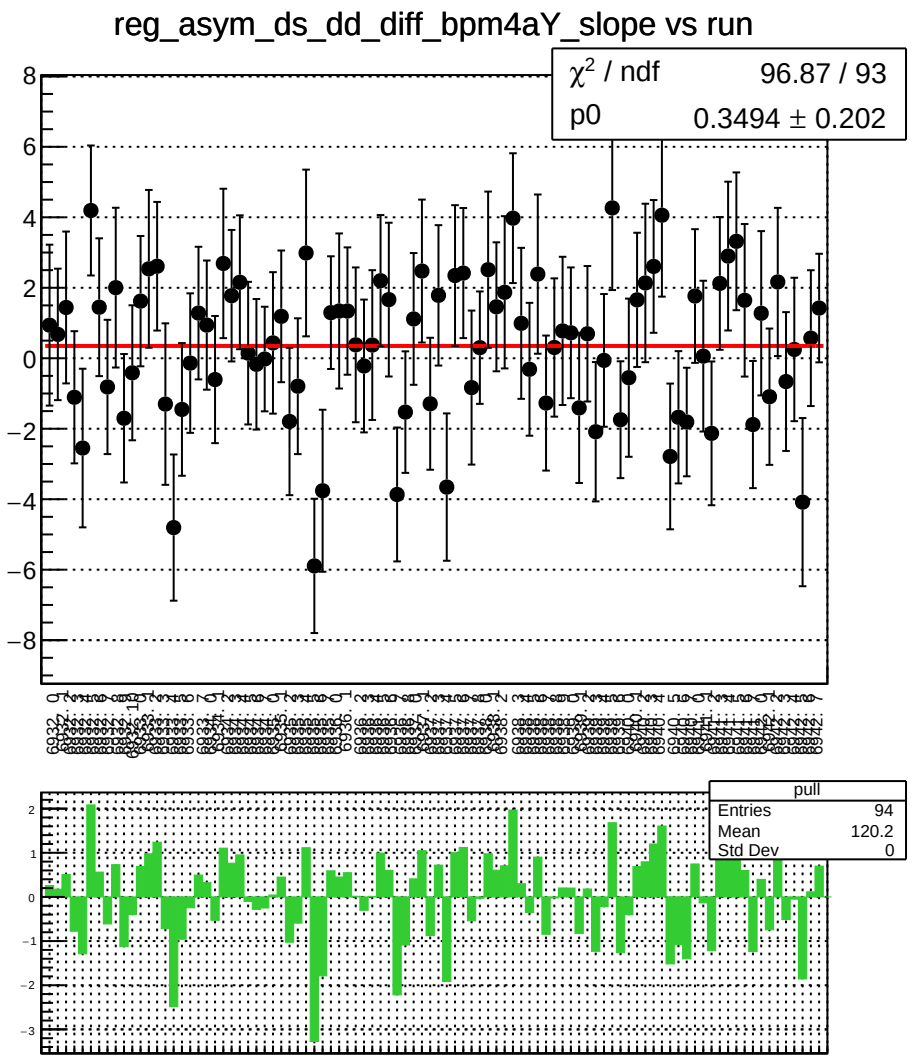

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.7 / 93
p0 0.1743 ± 0.2329
pull
Entries 94
Mean −157
Std Dev 0

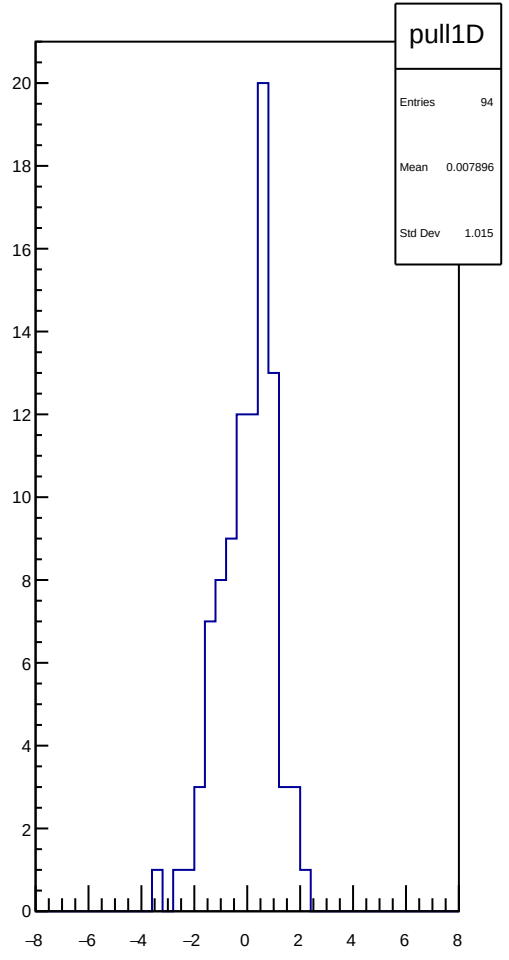

pull1D
Entries 94
Mean 0.01007
Std Dev 1.04

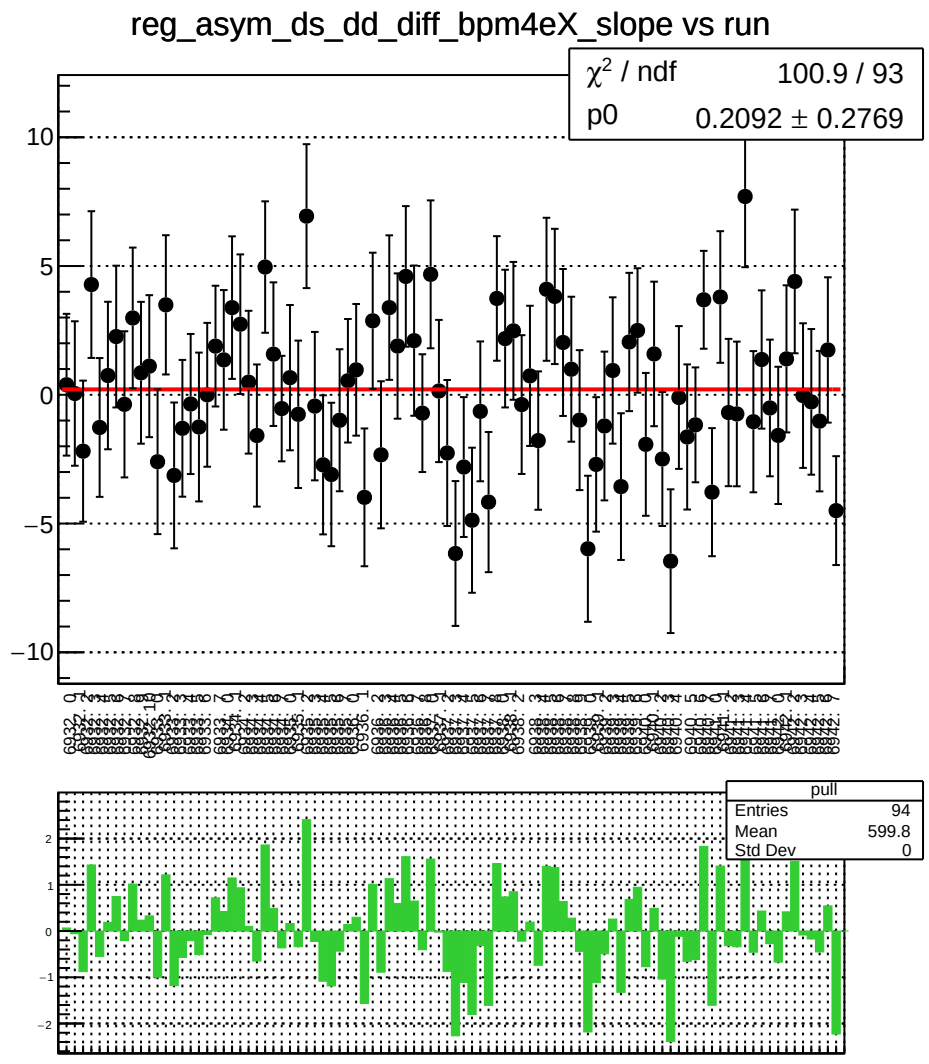

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 121.3 / 93
p0 0.02438 ± 0.009393
pull
Entries 94
Mean 122.3
Std Dev 27.47
pull1D
Entries 94
Mean 0.009208
Std Dev 1.136

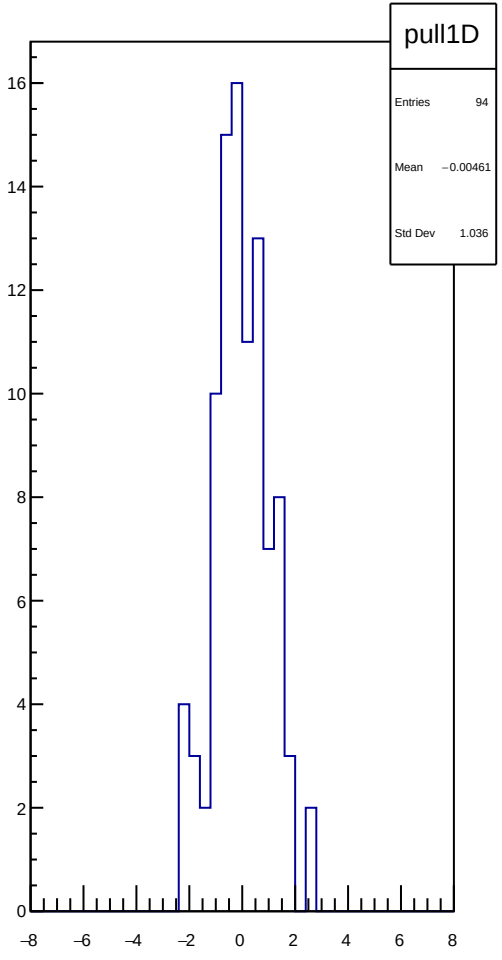

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 97.95 / 93
p0 −0.1951± 0.2986
pull
Entries 94
Mean 1076
Std Dev 0

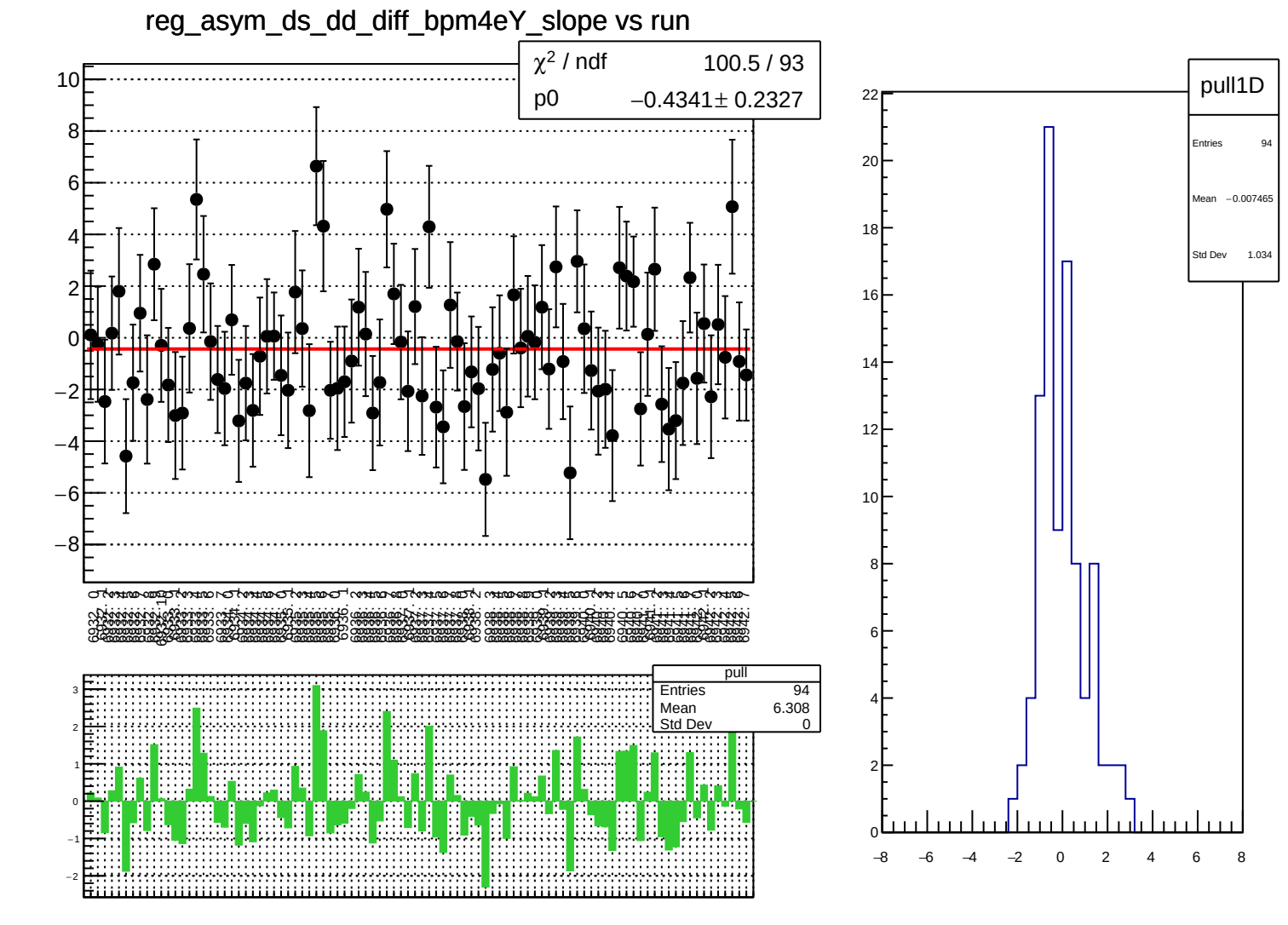

pull1D
Entries 94
Mean 0.002499
Std Dev 1.021

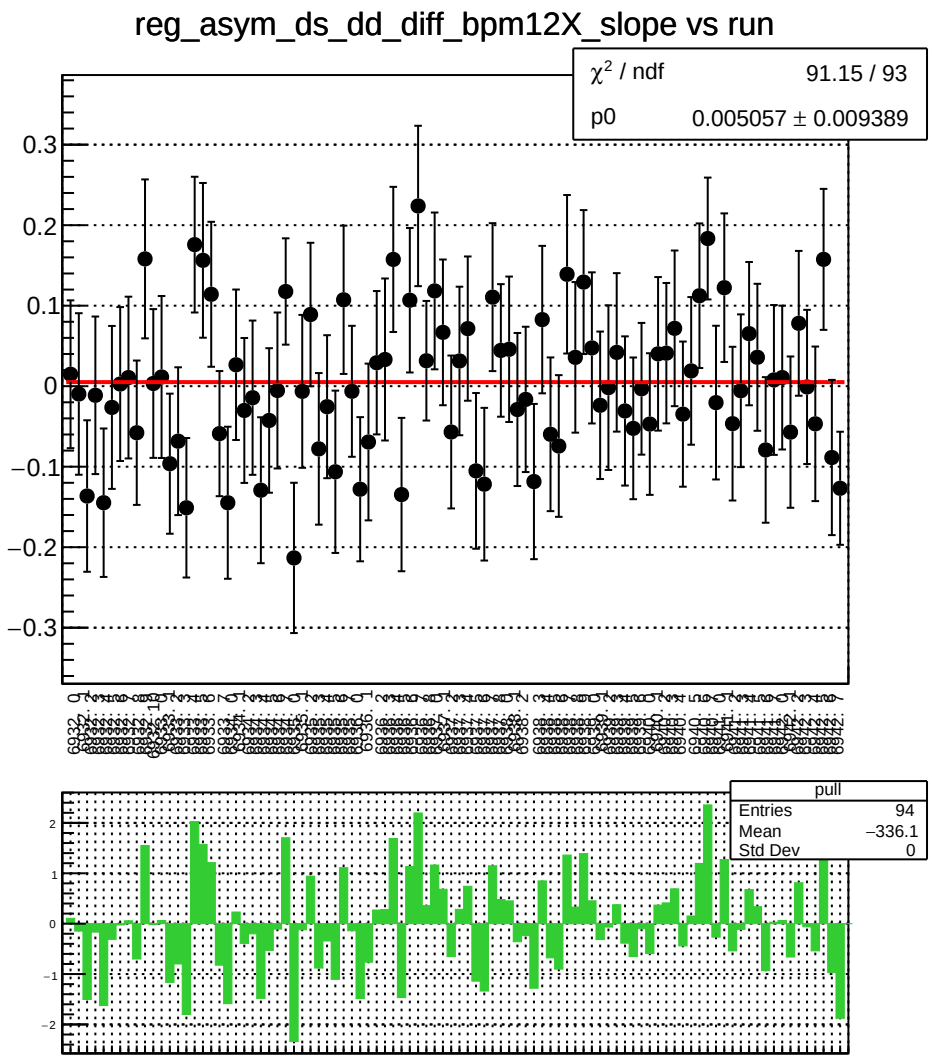

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.87 / 93
p0 0.3494 ± 0.202
pull
Entries 94
Mean 120.2
Std Dev 0

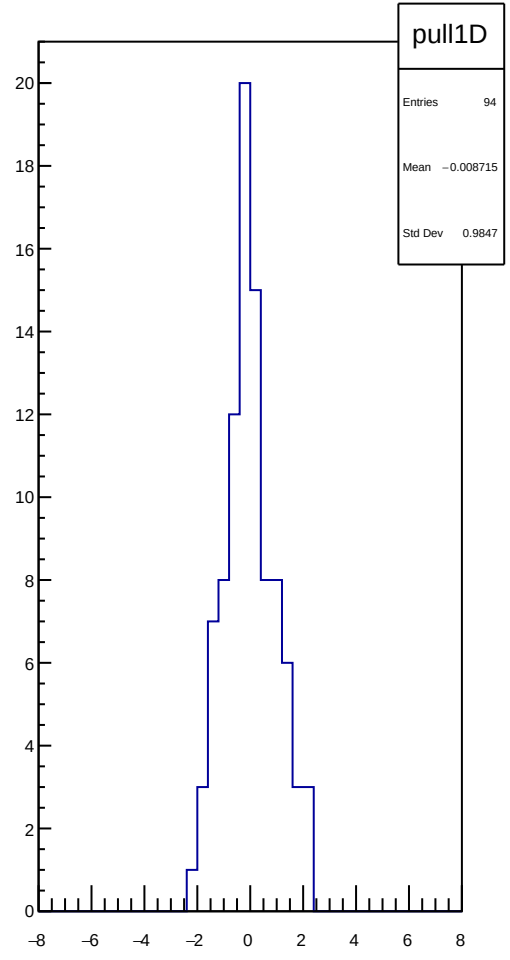

pull1D
Entries 94
Mean 0.007896
Std Dev 1.015

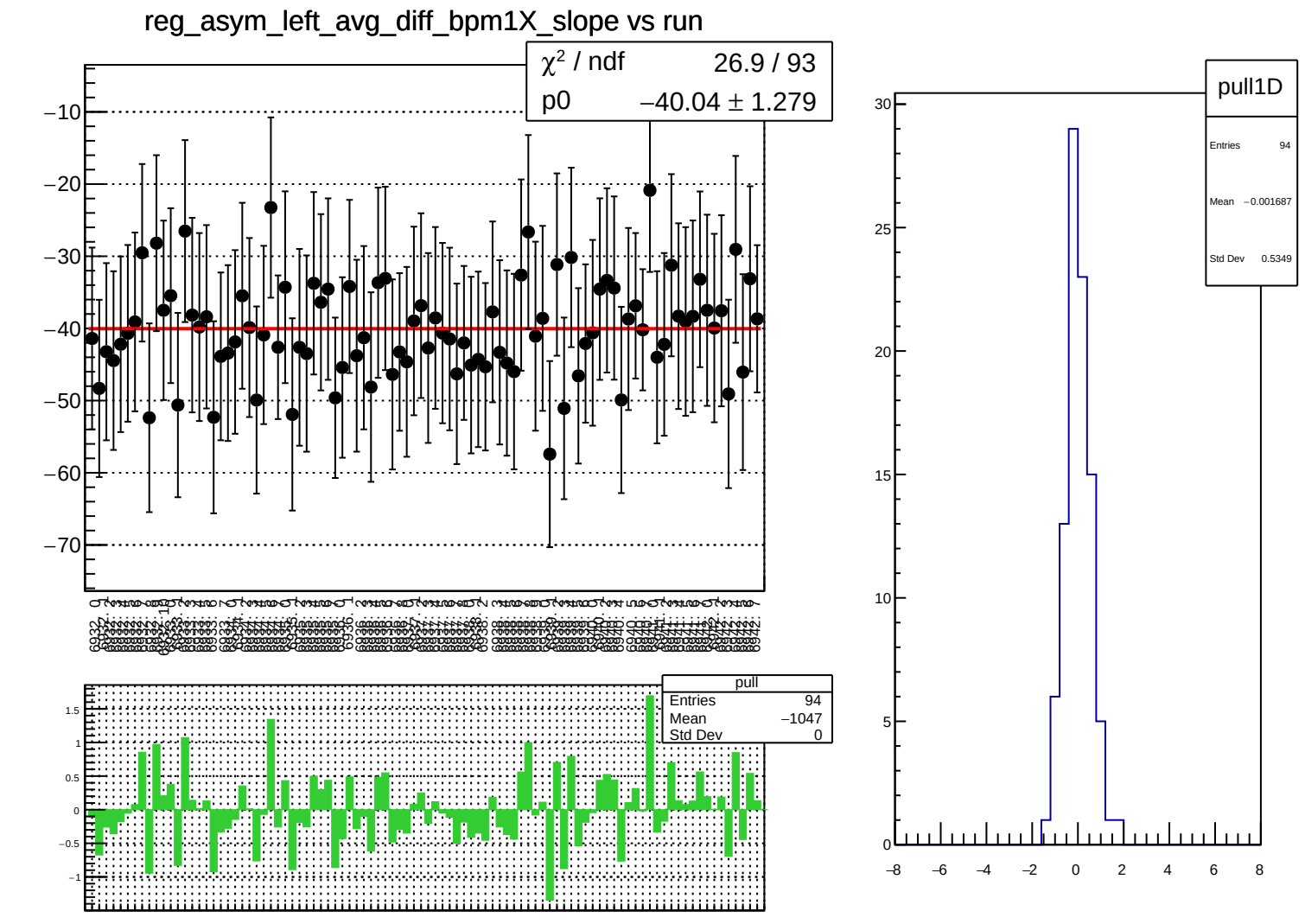

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.9 / 93
p0 0.2092 ± 0.2769
pull
Entries 94
Mean 599.8
Std Dev 0

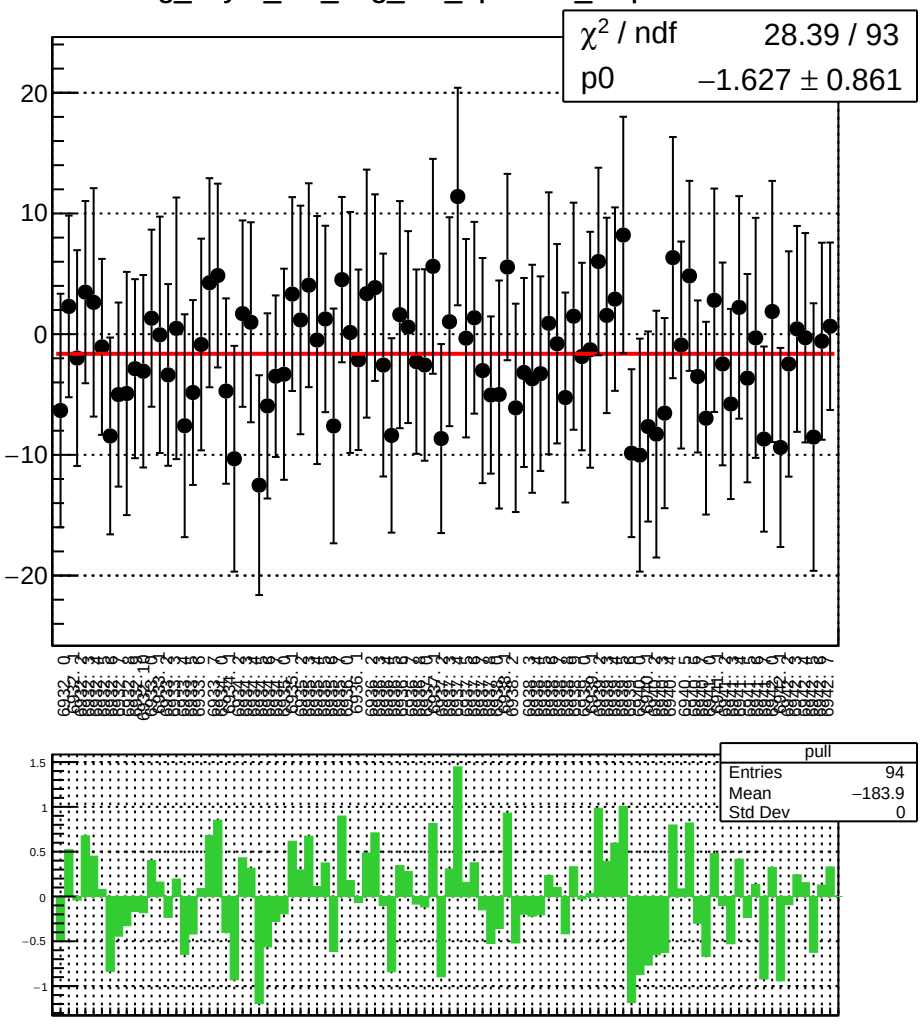

pull1D
Entries 94
Mean −0.00461
Std Dev 1.036

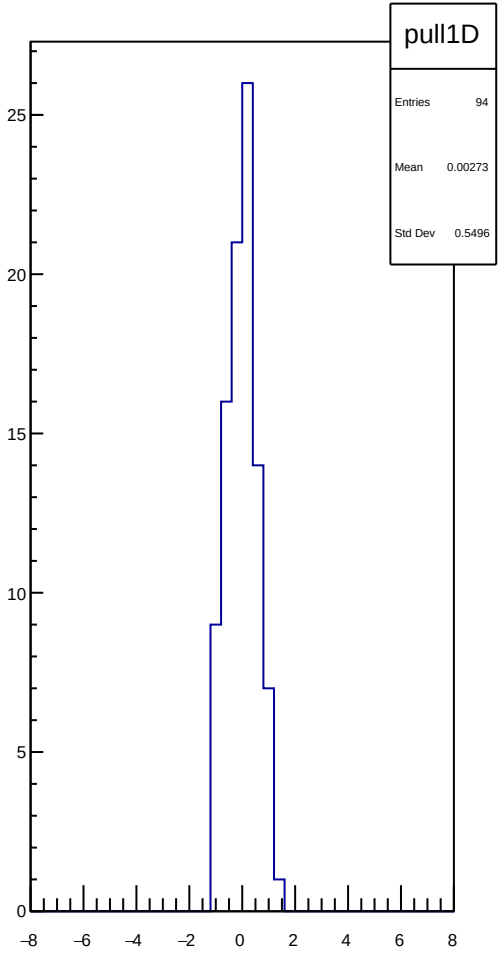

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.5 / 93
p0 −0.4341± 0.2327
pull
Entries 94
Mean 6.308
Std Dev 0
pull1D
Entries 94
Mean −0.007465
Std Dev 1.034

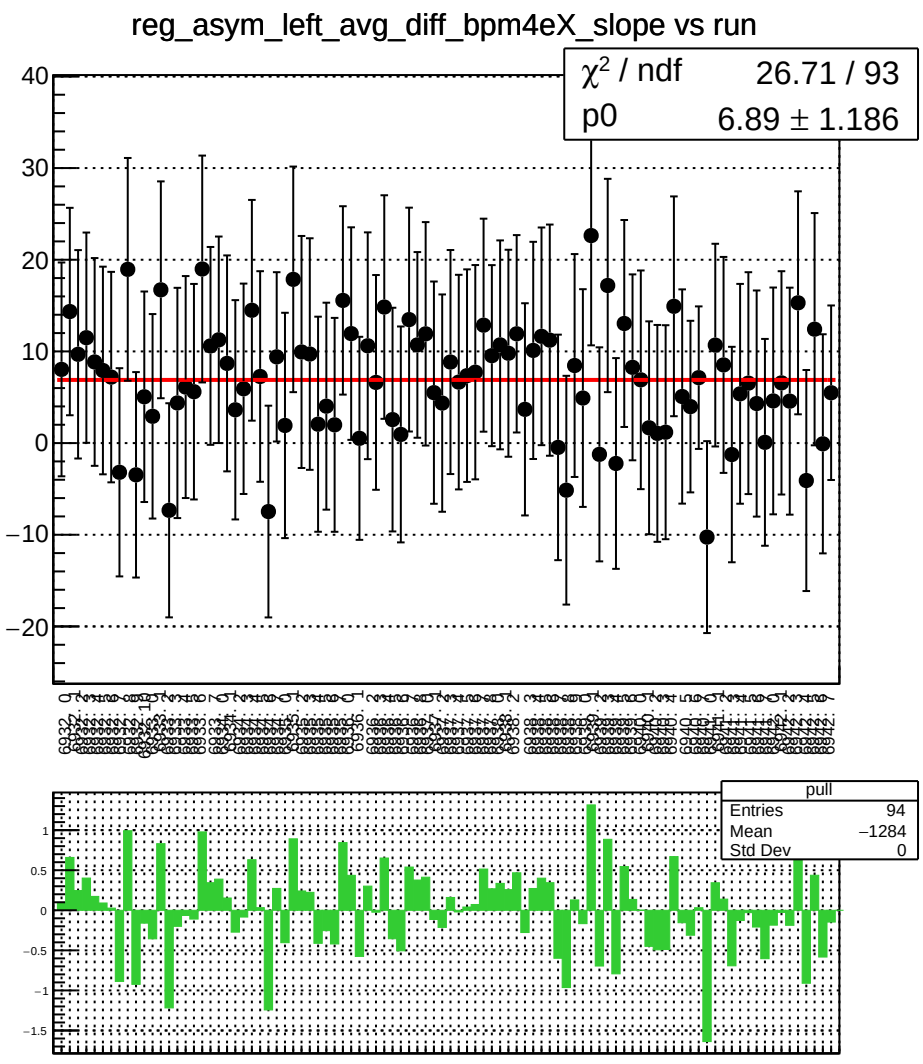

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 91.15 / 93
p0 0.005057 ± 0.009389
pull
Entries 94
Mean −336.1
Std Dev 0

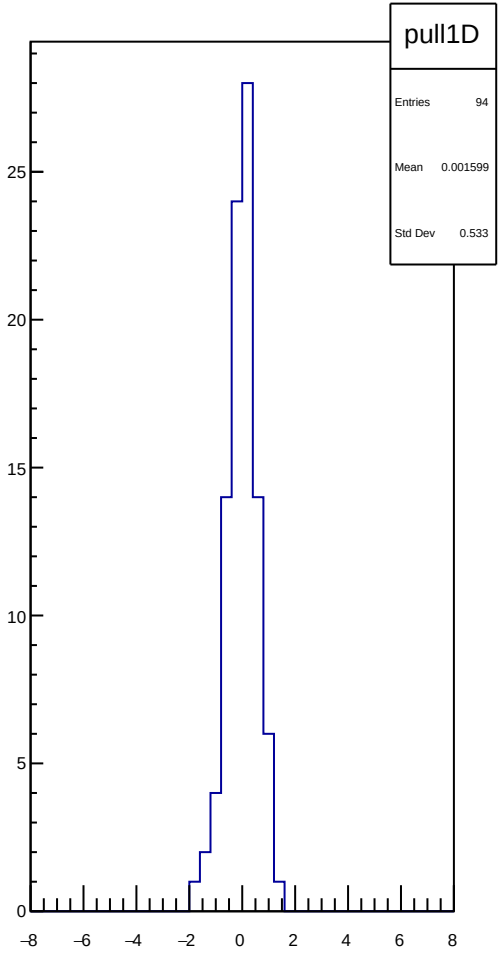

pull1D
Entries 94
Mean −0.008715
Std Dev 0.9847

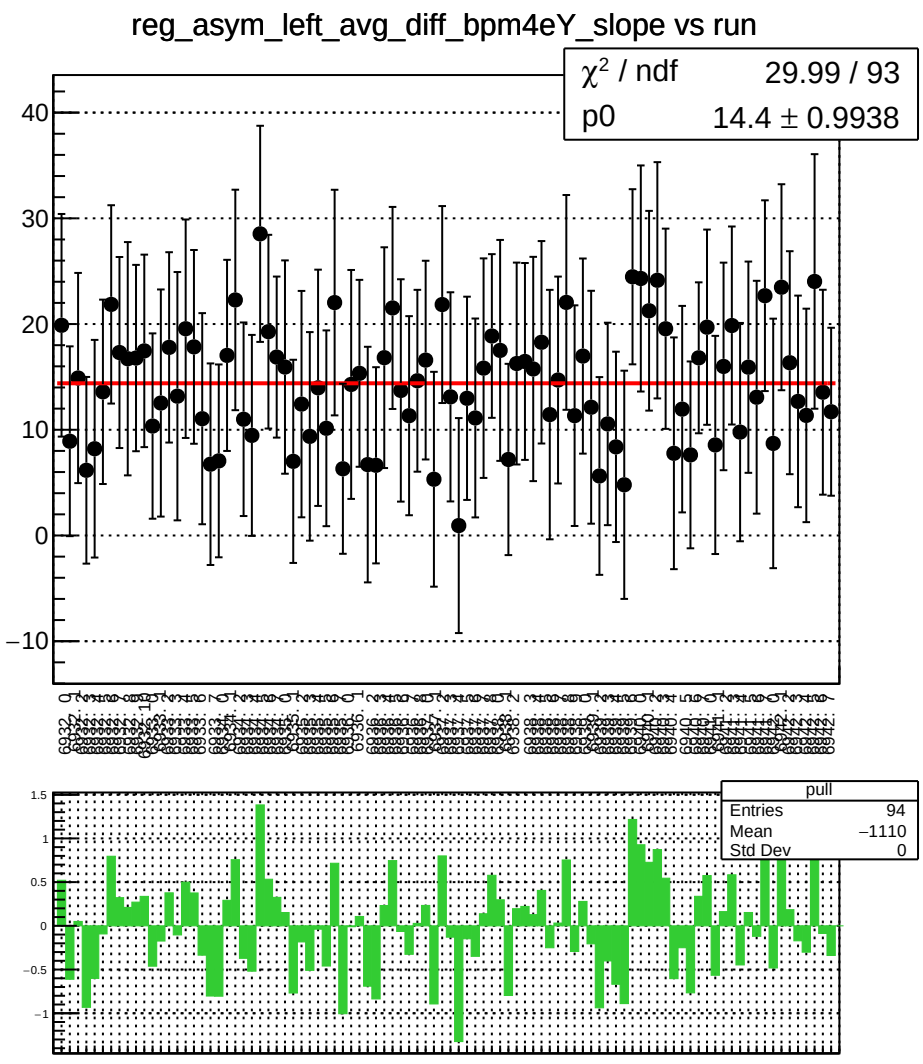

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 26.9 / 93
p0 −40.04 ± 1.279
pull
Entries 94
Mean −1047
Std Dev 0
pull1D
Entries 94
Mean −0.001687
Std Dev 0.5349

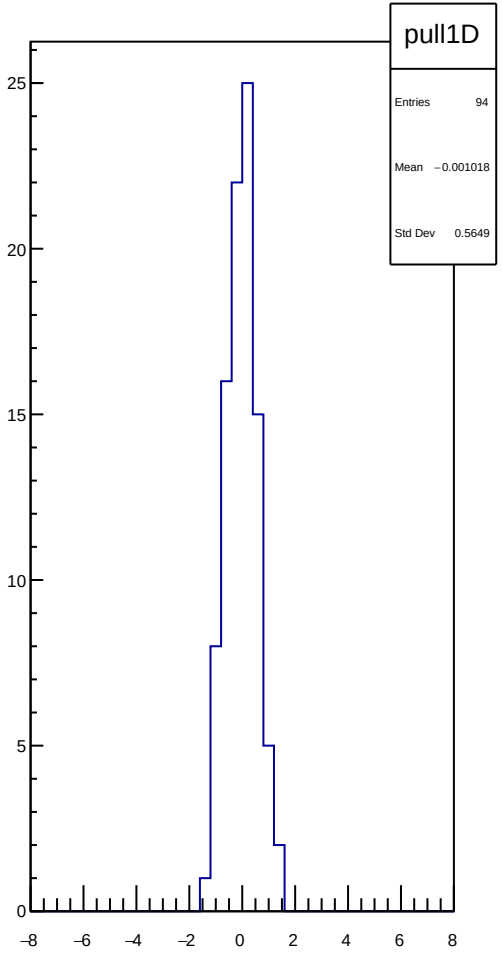

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 28.39 / 93
p0 −1.627 ± 0.861
pull
Entries 94
Mean −183.9
Std Dev 0

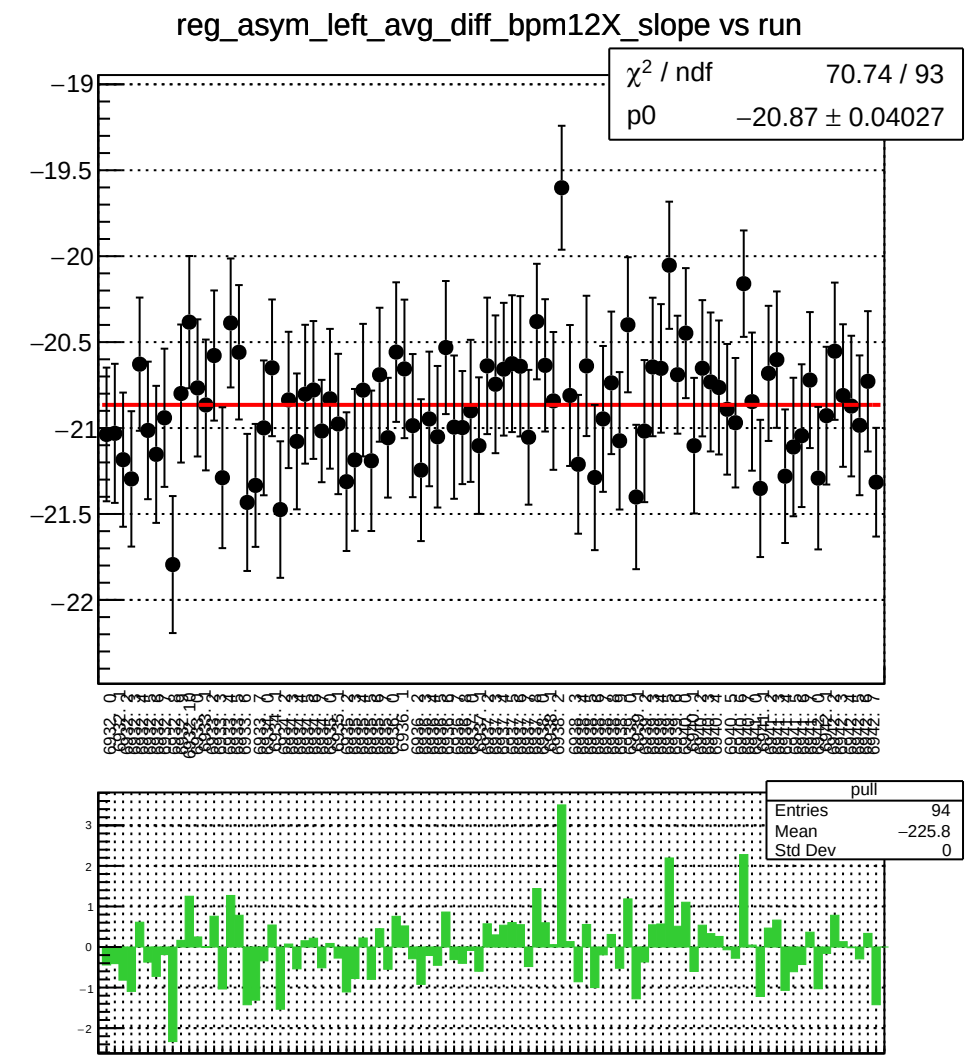

pull1D
Entries 94
Mean 0.00273
Std Dev 0.5496

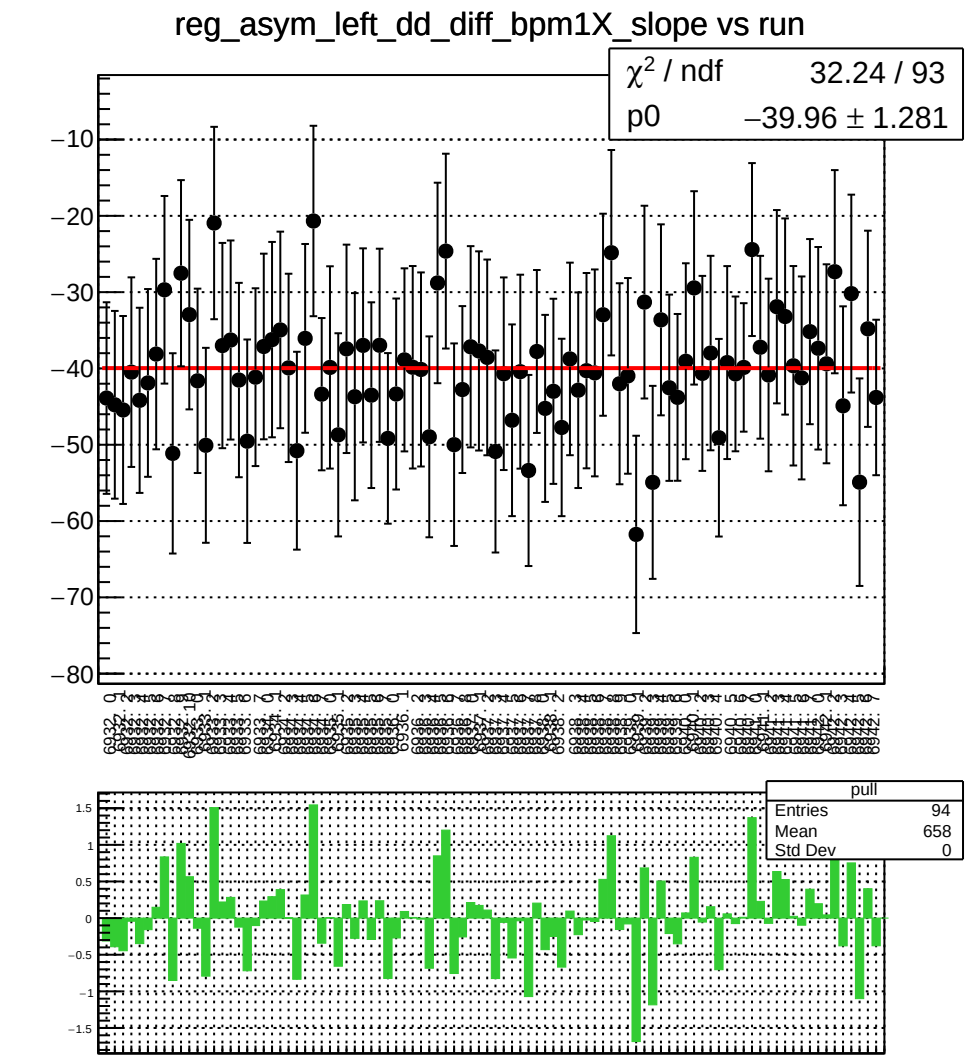

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.71 / 93
p0 6.89 ± 1.186
pull
Entries 94
Mean −1284
Std Dev 0

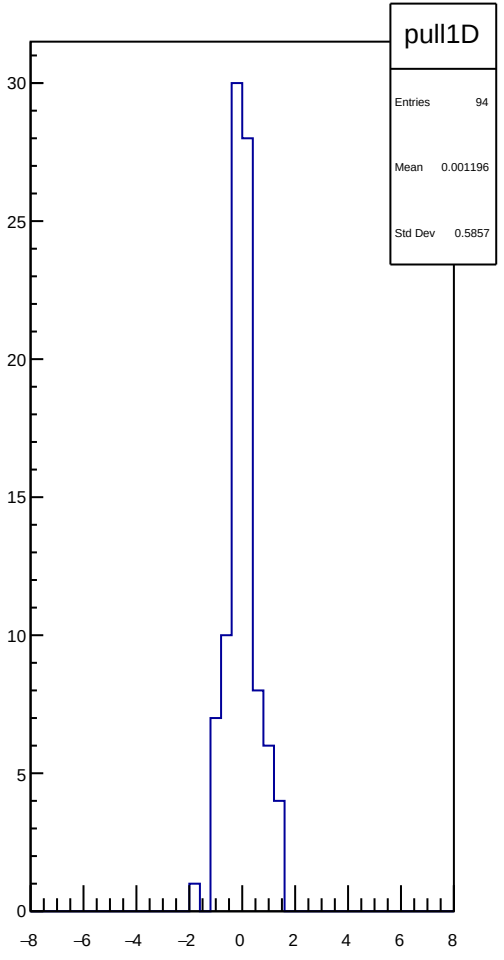

pull1D
Entries 94
Mean 0.001599
Std Dev 0.533

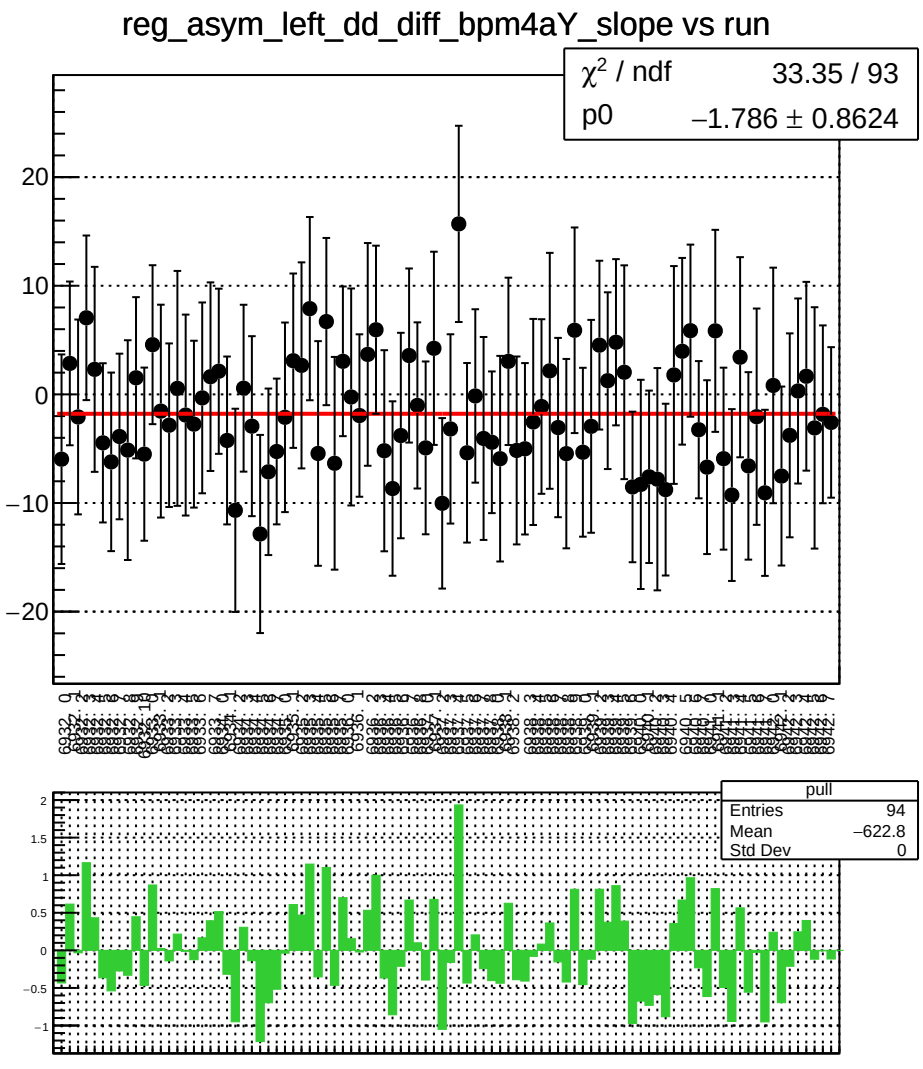

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.99 / 93
p0 14.4 ± 0.9938
pull
Entries 94
Mean −1110
Std Dev 0

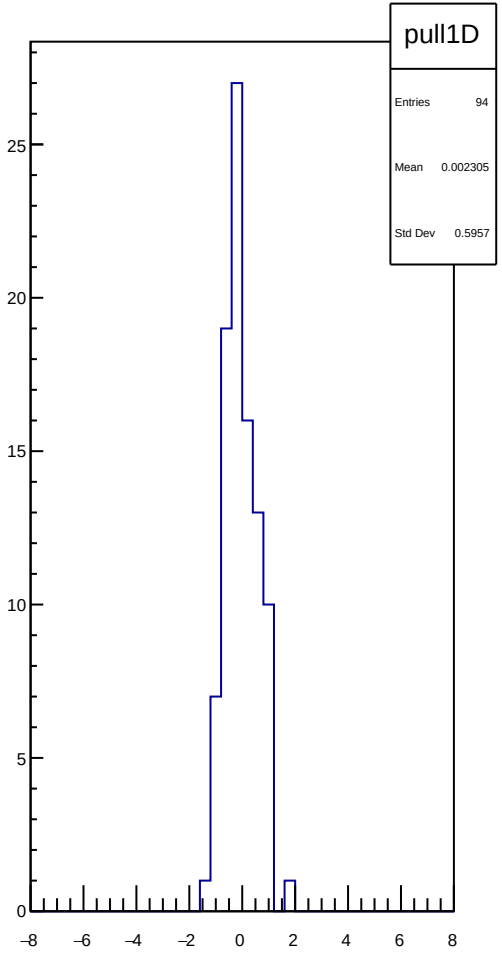

pull1D
Entries 94
Mean −0.001018
Std Dev 0.5649

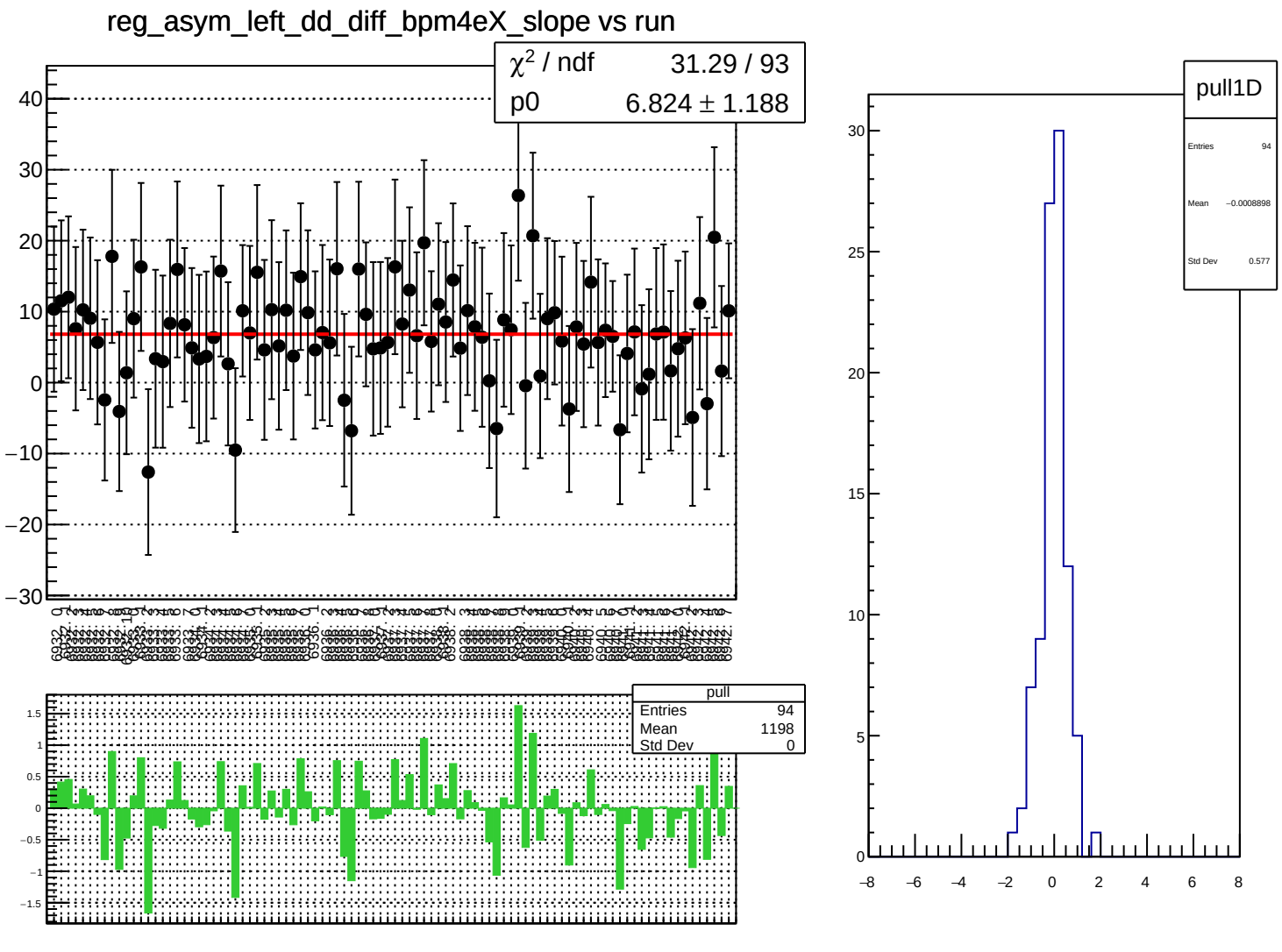

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 70.74 / 93
p0 −20.87 ± 0.04027
pull
Entries 94
Mean −225.8
Std Dev 0
pull1D
Entries 94
Mean −0.0138
Std Dev 0.8674

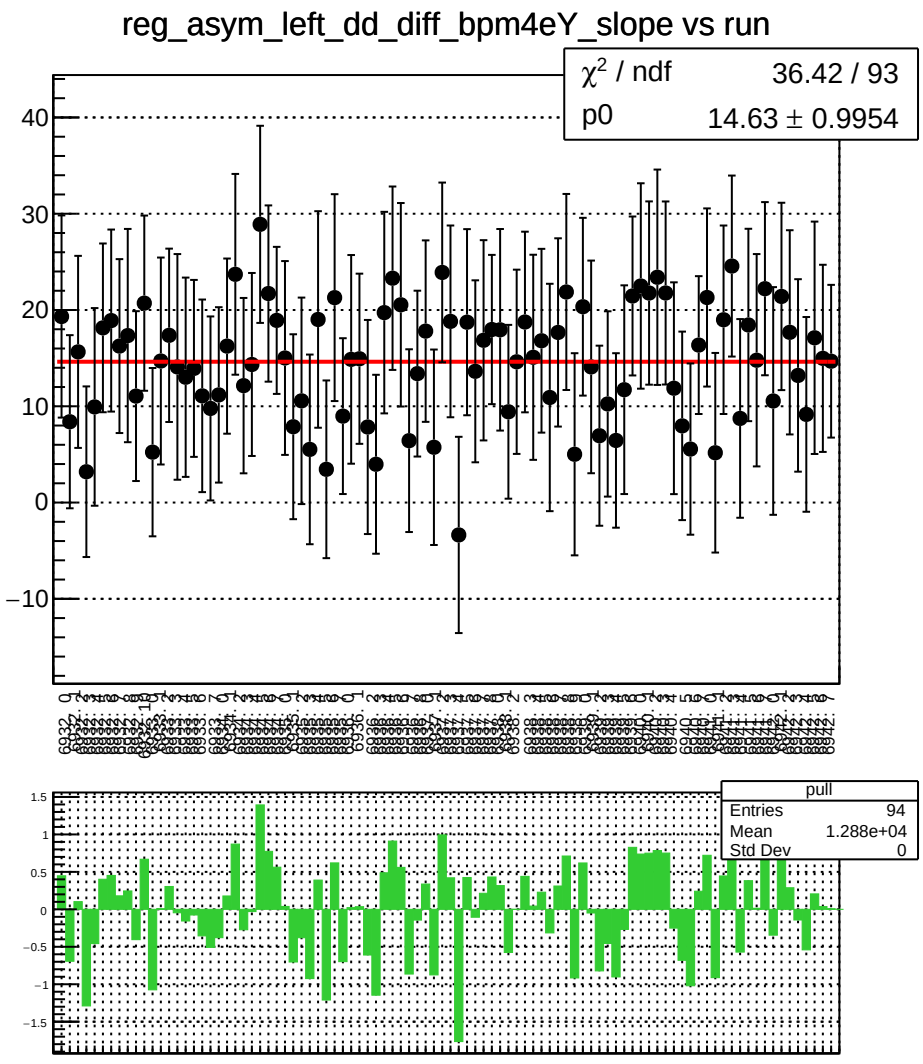

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 32.24 / 93
p0 −39.96 ± 1.281
pull
Entries 94
Mean 658
Std Dev 0

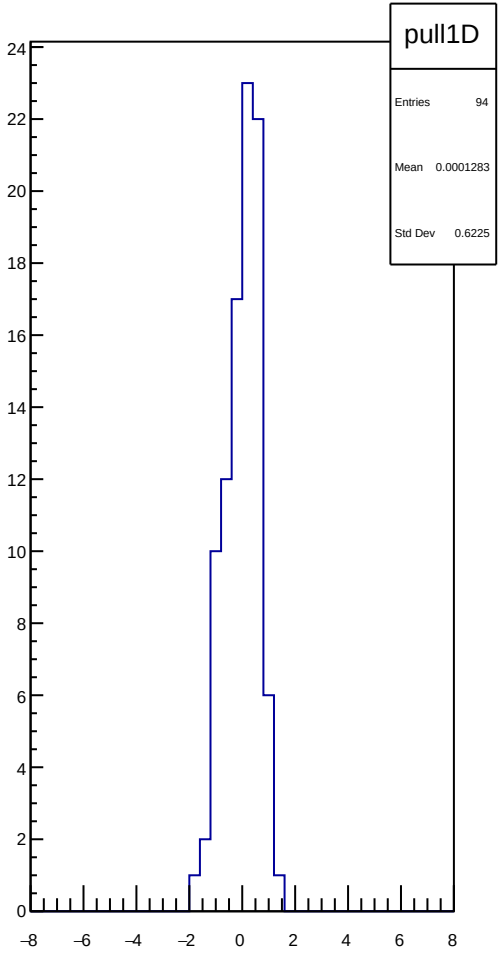

pull1D
Entries 94
Mean 0.001196
Std Dev 0.5857

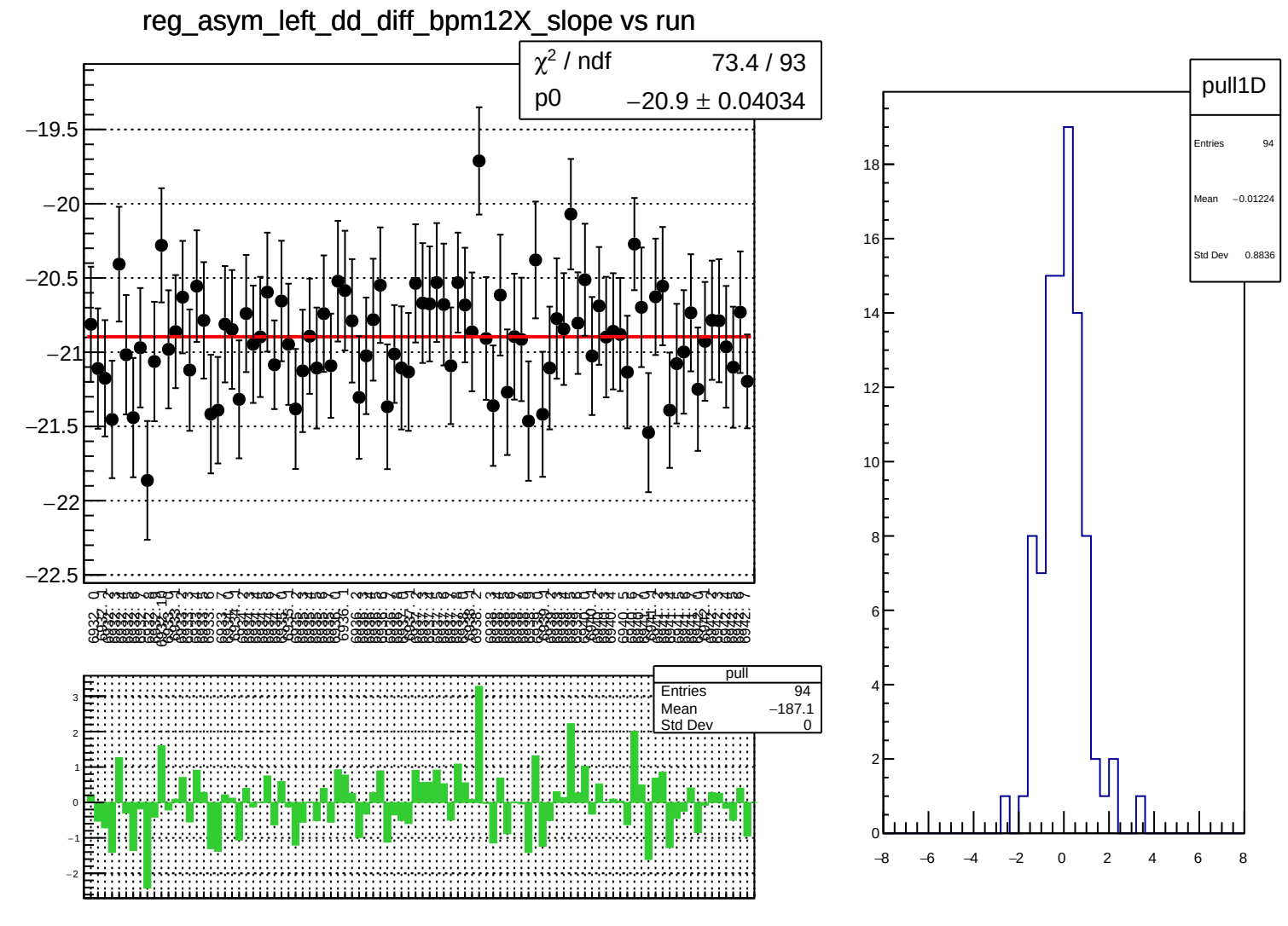

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.35 / 93
p0 −1.786 ± 0.8624
pull
Entries 94
Mean −622.8
Std Dev 0

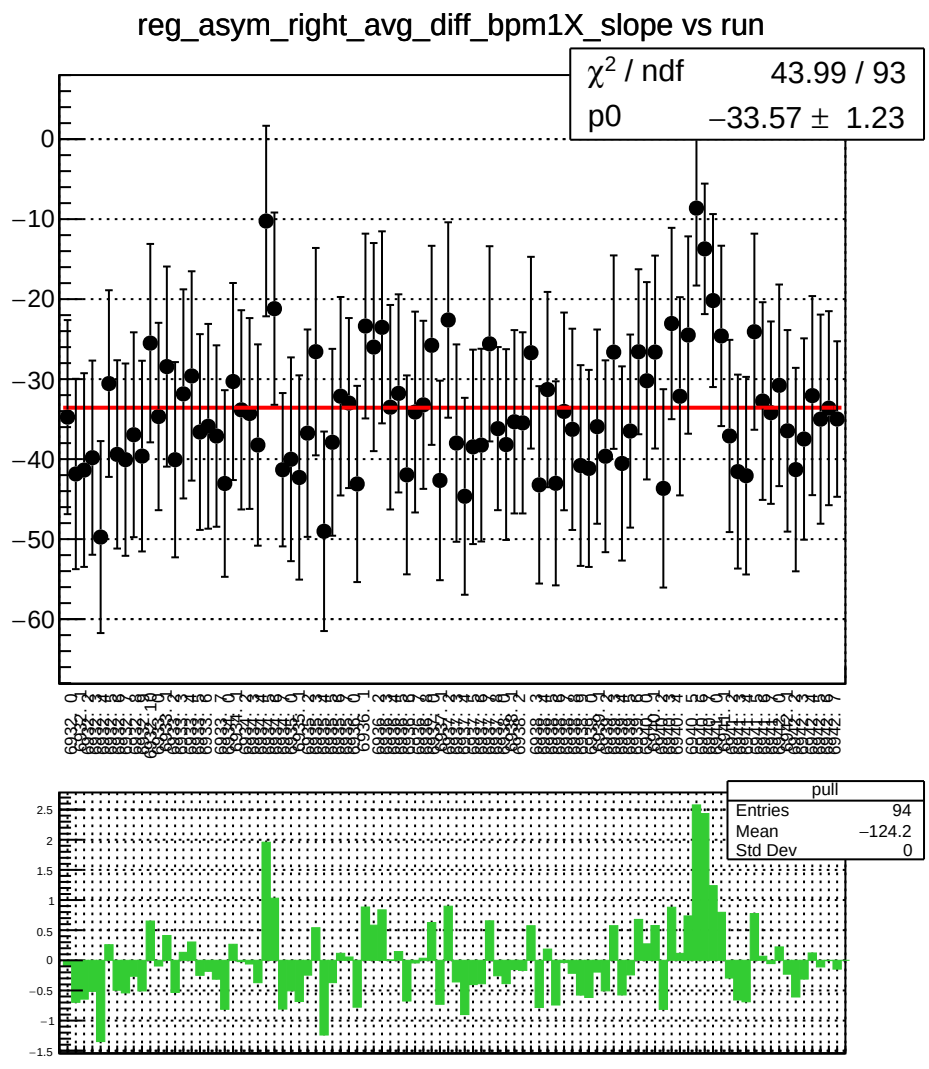

pull1D
Entries 94
Mean 0.002305
Std Dev 0.5957

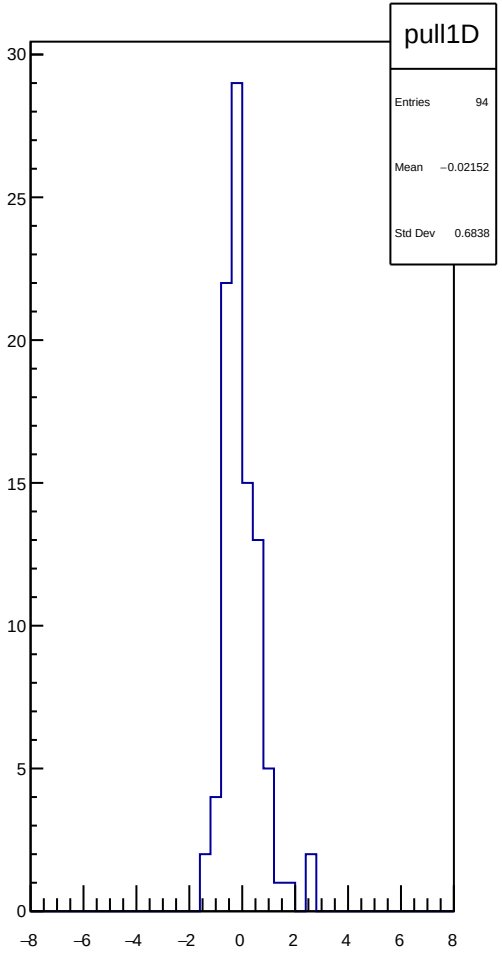

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.29 / 93
p0 6.824 ± 1.188
pull
Entries 94
Mean 1198
Std Dev 0
pull1D
Entries 94
Mean −0.0008898
Std Dev 0.577

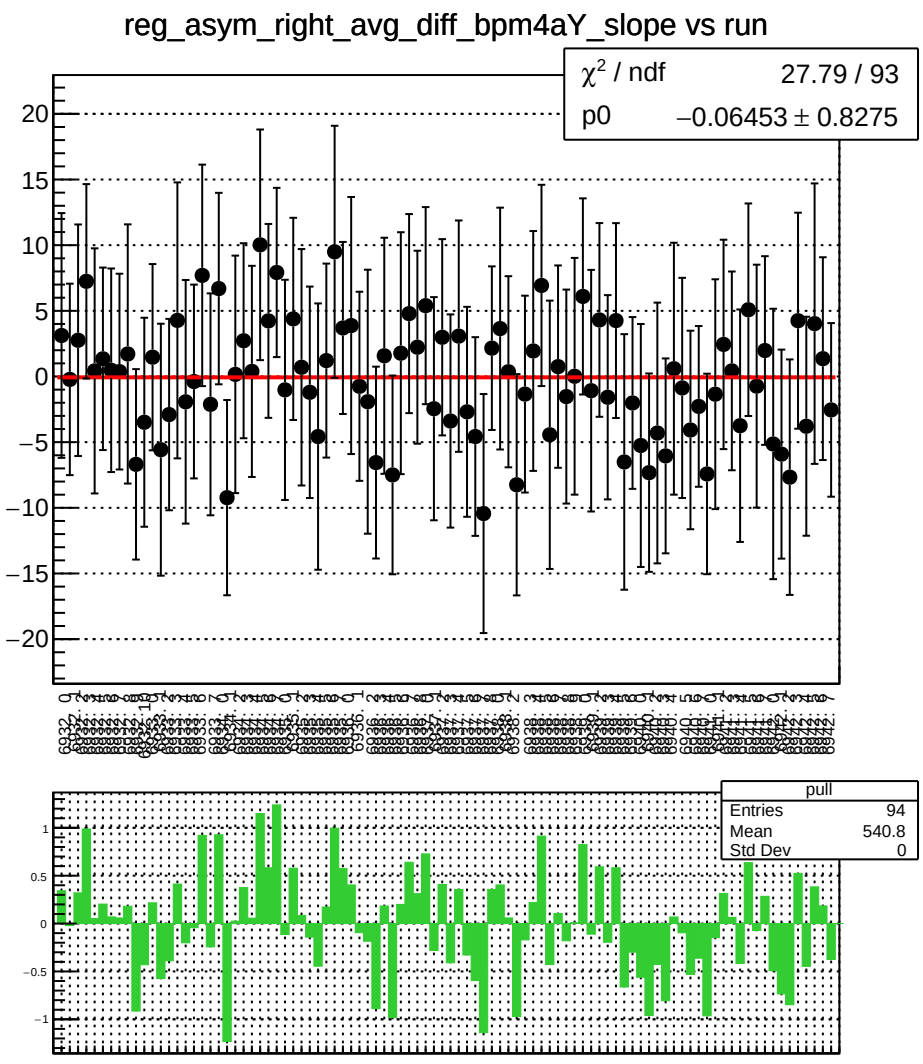

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.42 / 93
p0 14.63 ± 0.9954
pull
Entries 94
Mean 1.288e+04
Std Dev 0

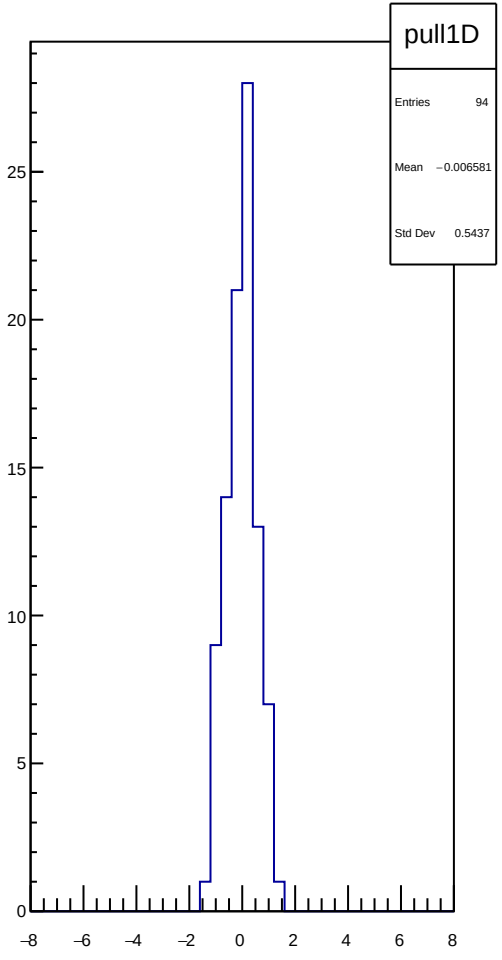

pull1D
Entries 94
Mean 0.0001283
Std Dev 0.6225

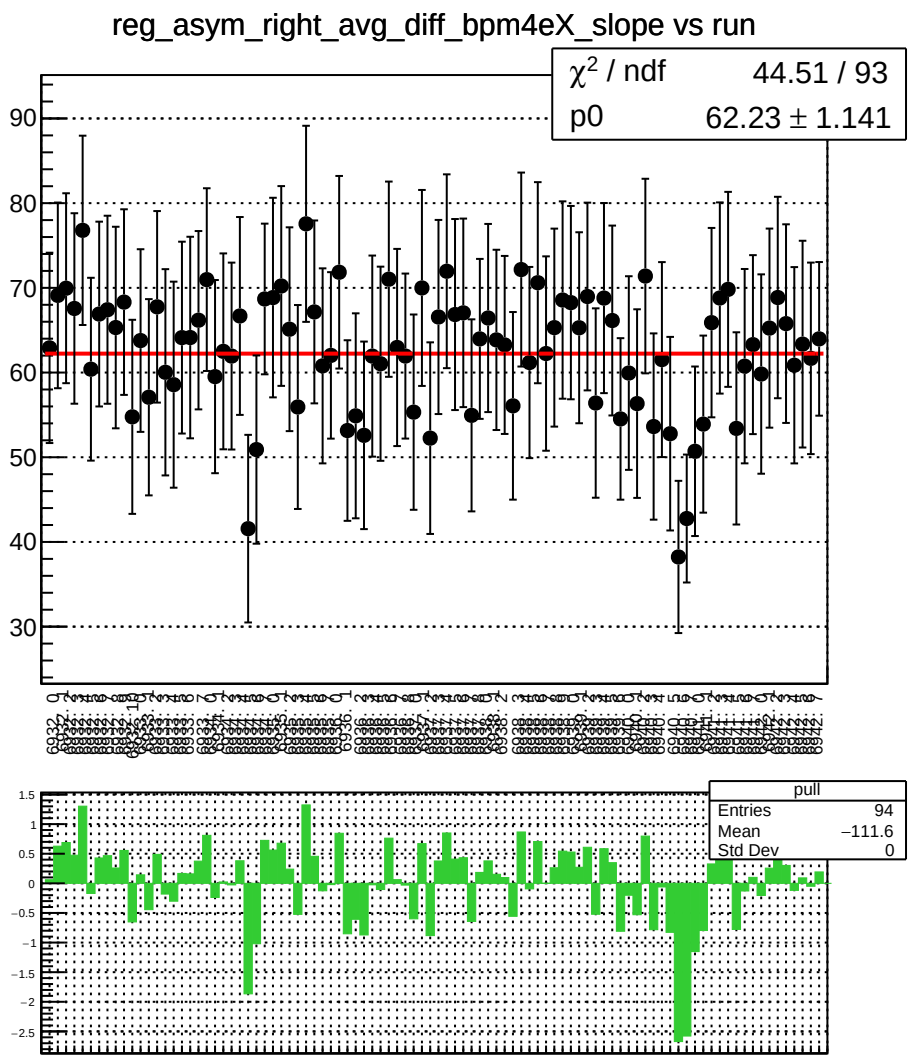

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 73.4 / 93
p0 −20.9 ± 0.04034
−19.5
−20
−20.5
−21
−21.5
−22
−22.5
pull
Entries 94
Mean −187.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01224
Std Dev 0.8836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

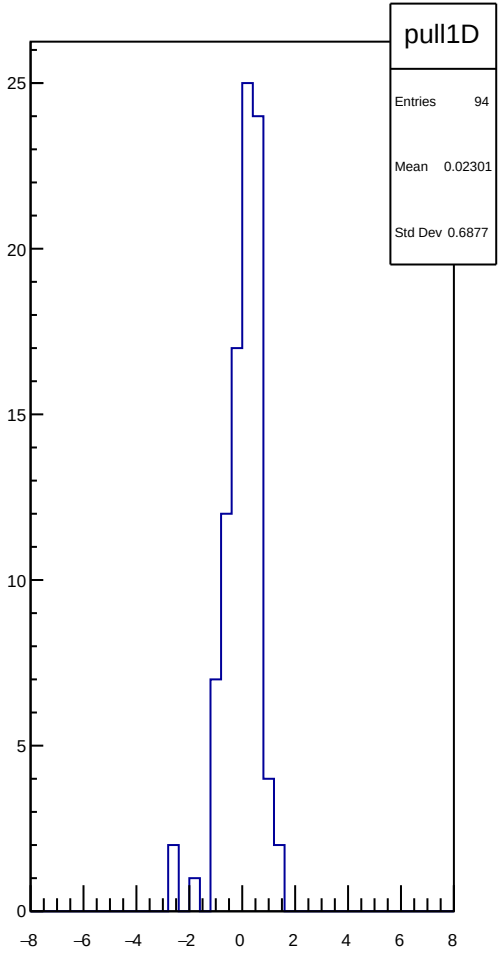

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 43.99 / 93
p0 −33.57 ± 1.23
pull
Entries 94
Mean −124.2
Std Dev 0

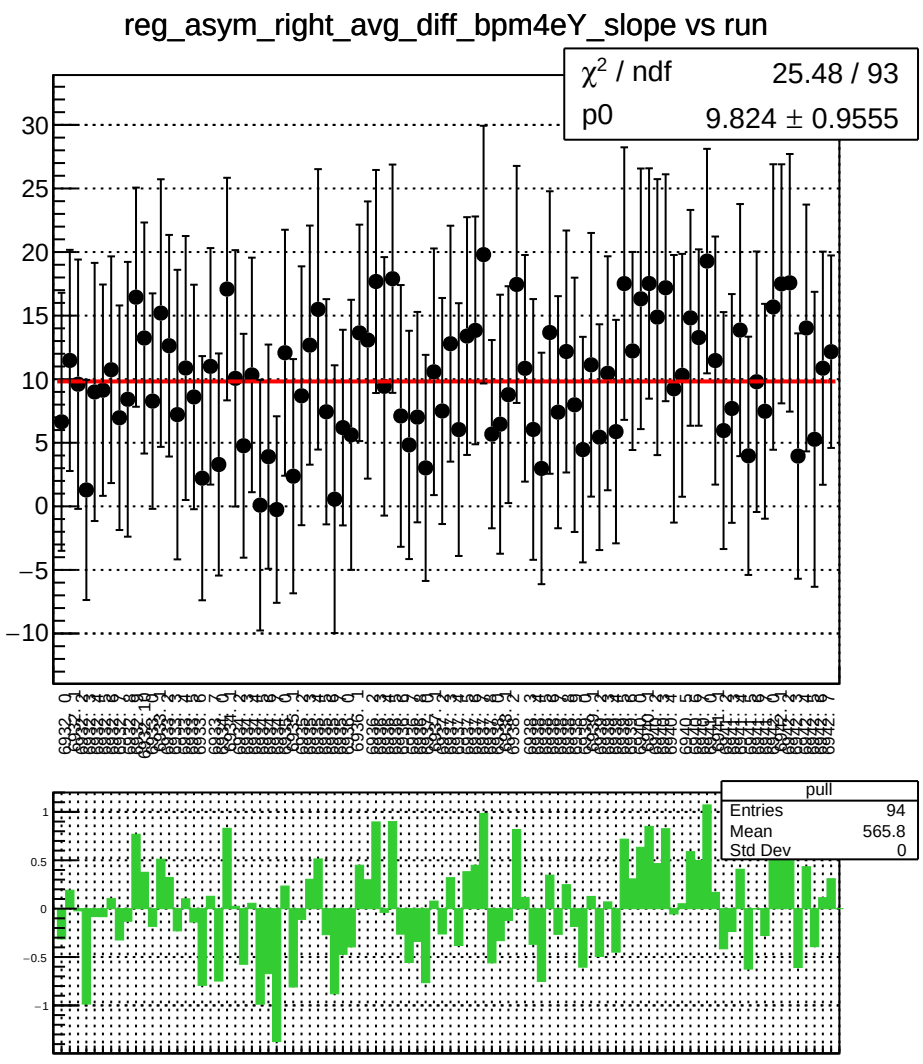

pull1D
Entries 94
Mean −0.02152
Std Dev 0.6838

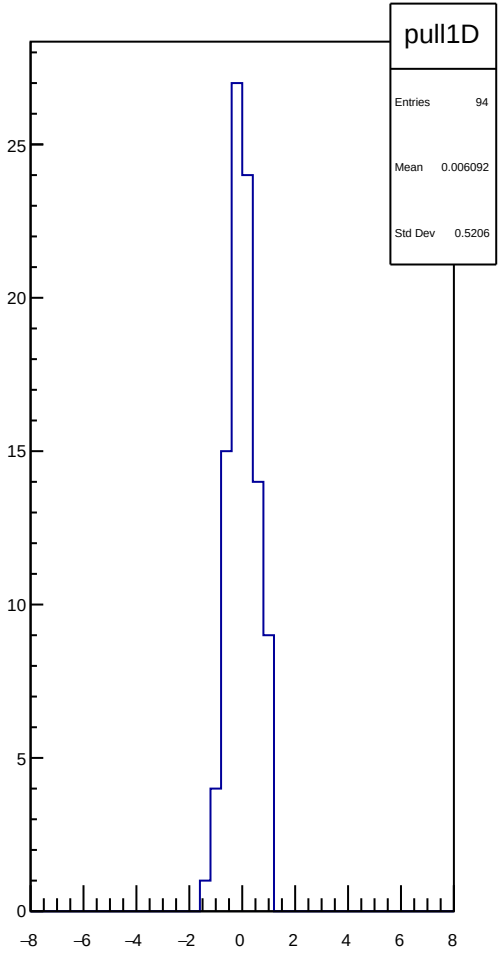

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.79 / 93
p0 −0.06453 ± 0.8275
pull
Entries 94
Mean 540.8
Std Dev 0

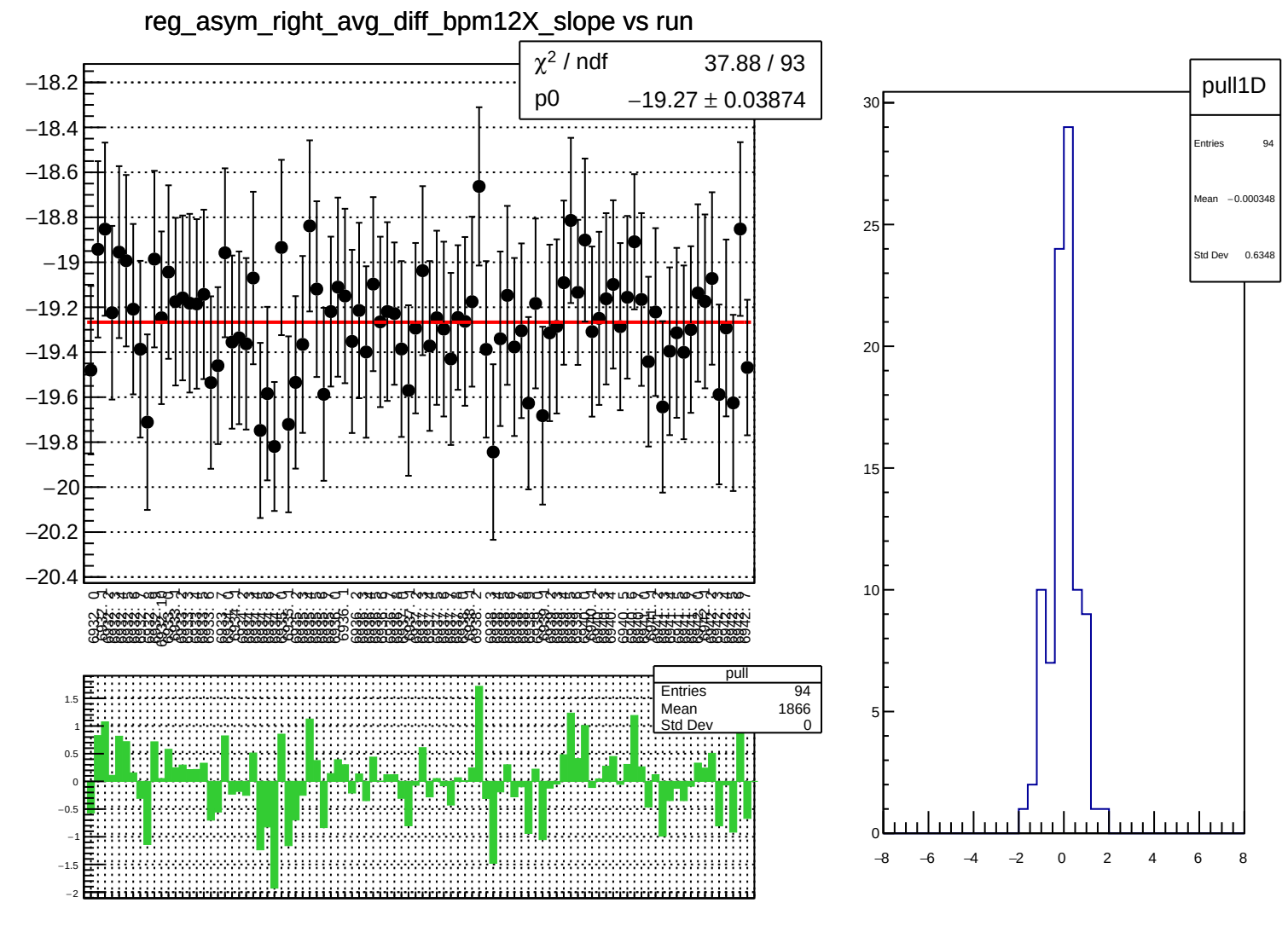

pull1D
Entries 94
Mean −0.006581
Std Dev 0.5437

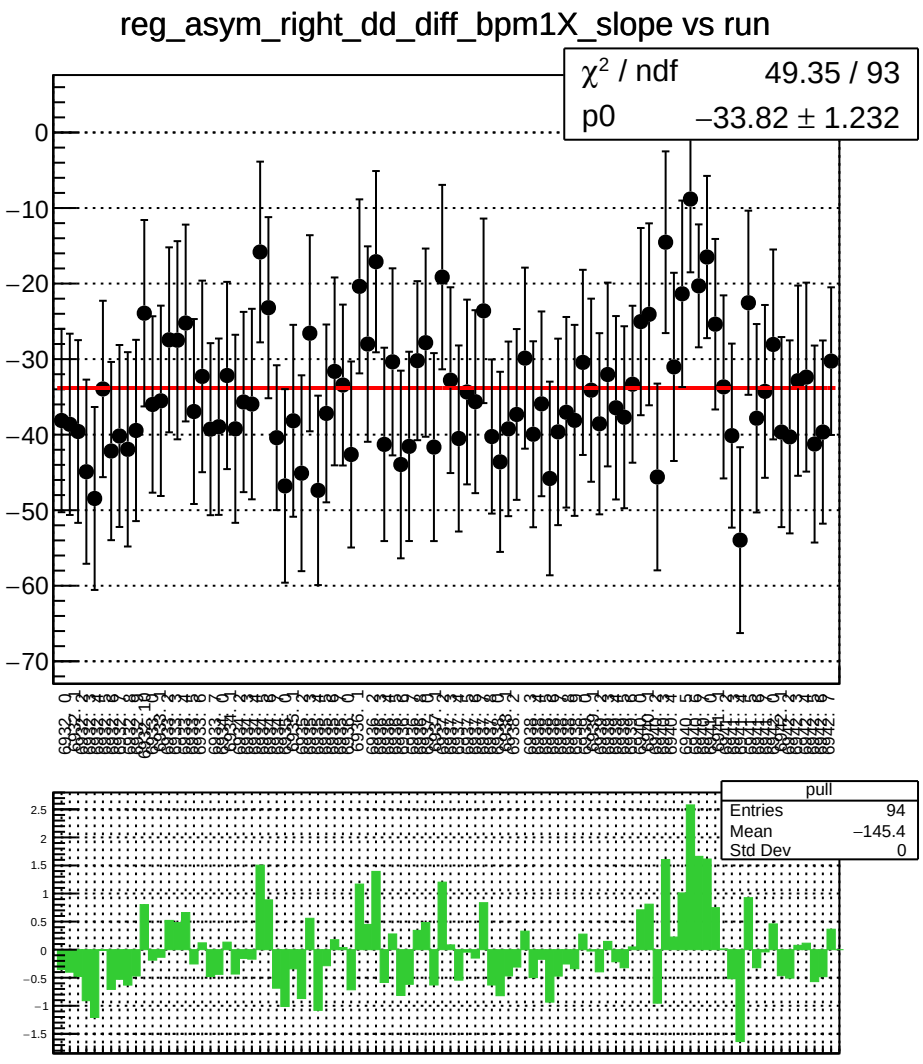

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.51 / 93
p0 62.23 ± 1.141
pull
Entries 94
Mean −111.6
Std Dev 0

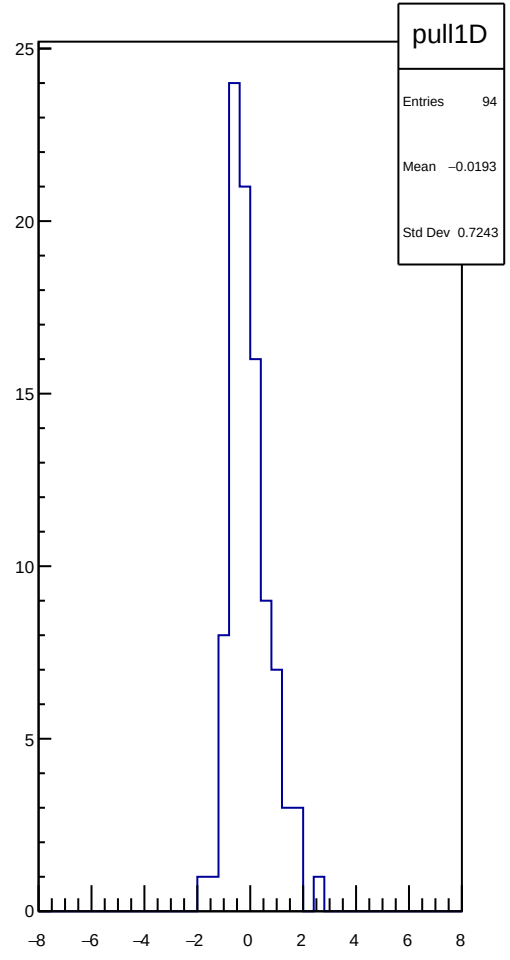

pull1D
Entries 94
Mean 0.02301
Std Dev 0.6877

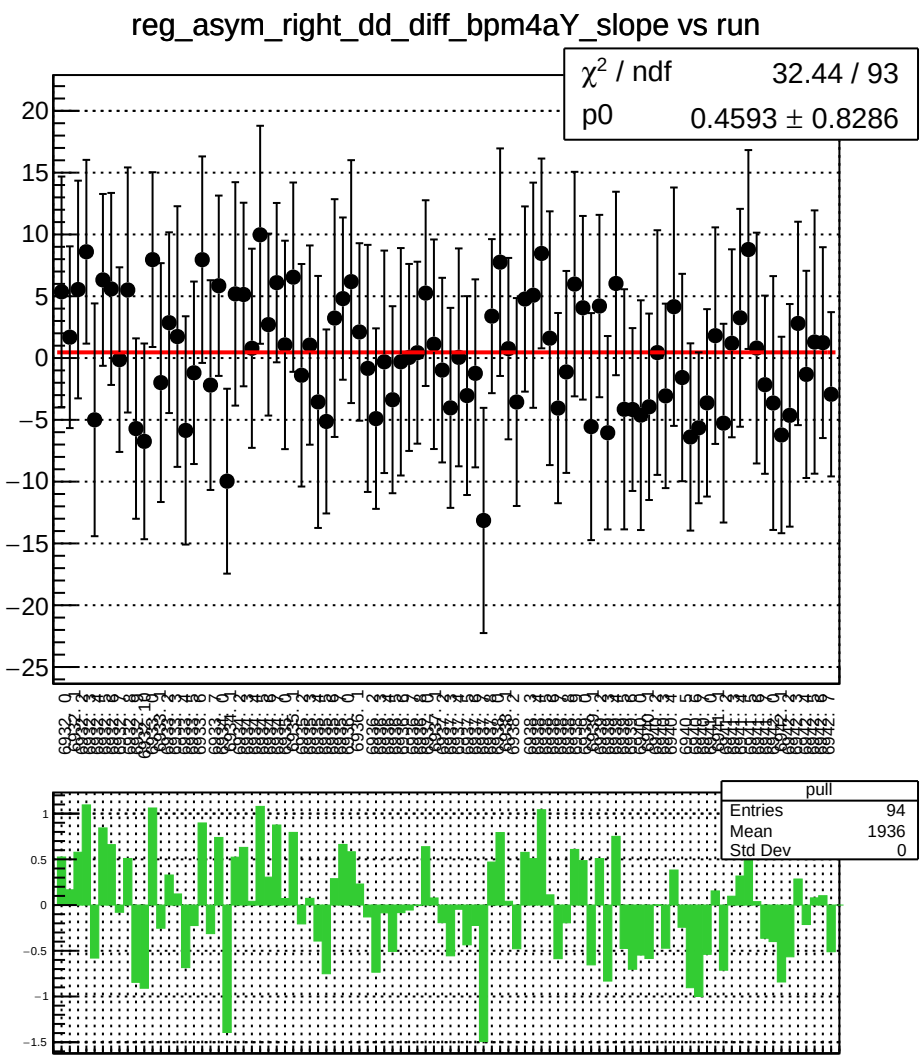

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.48 / 93
p0 9.824 ± 0.9555
pull
Entries 94
Mean 565.8
Std Dev 0

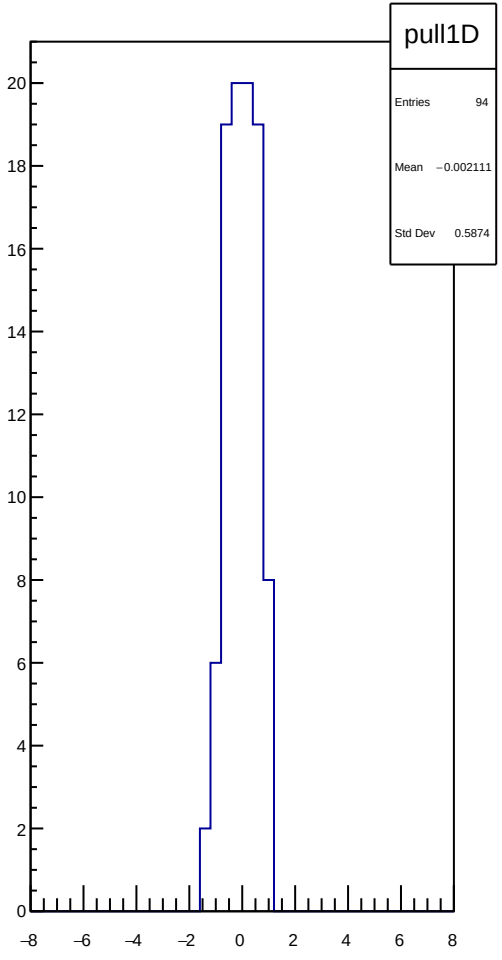

pull1D
Entries 94
Mean 0.006092
Std Dev 0.5206

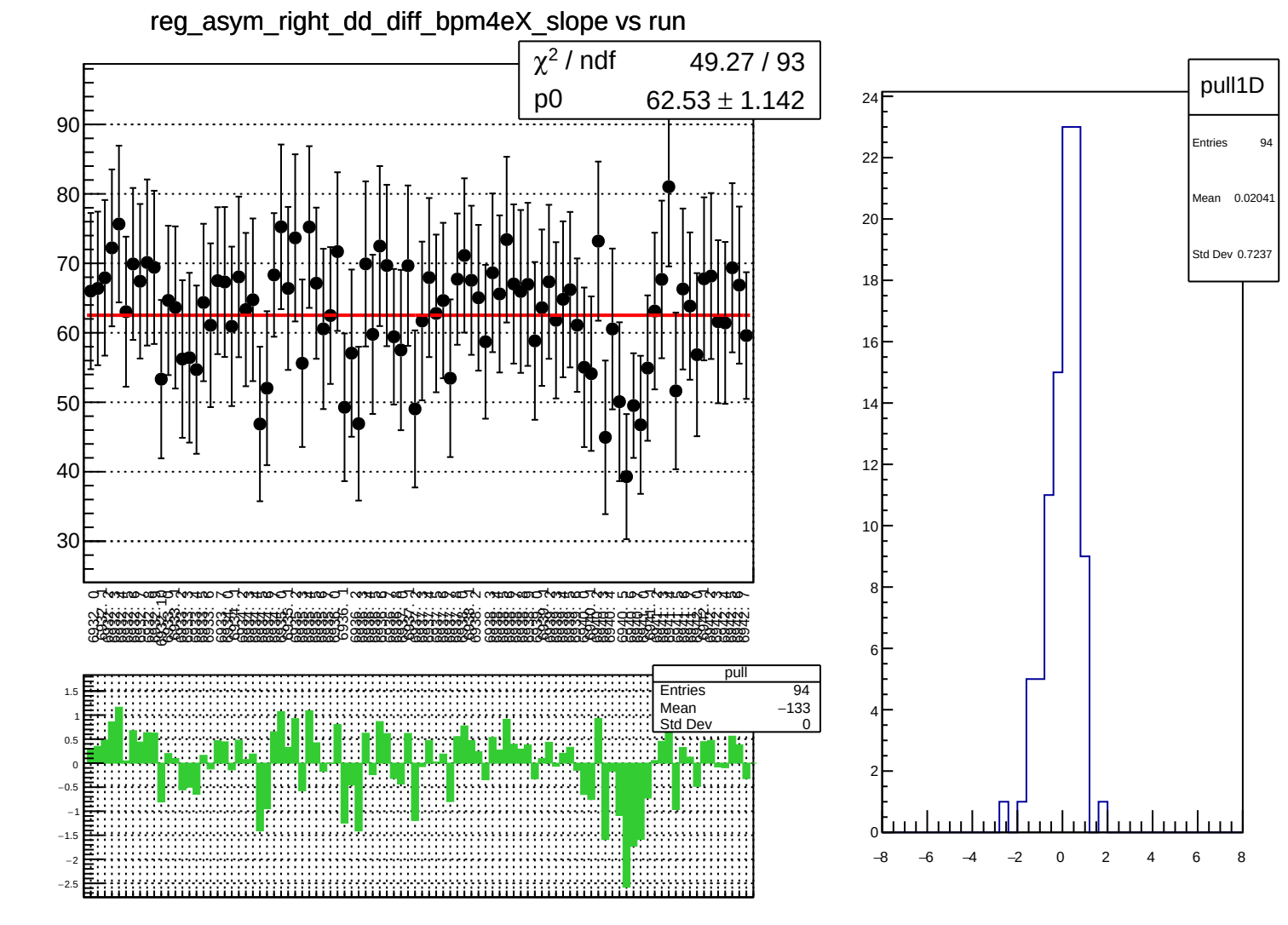

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 37.88 / 93
p0 −19.27 ± 0.03874
pull
Entries 94
Mean 1866
Std Dev 0
pull1D
Entries 94
Mean −0.000348
Std Dev 0.6348

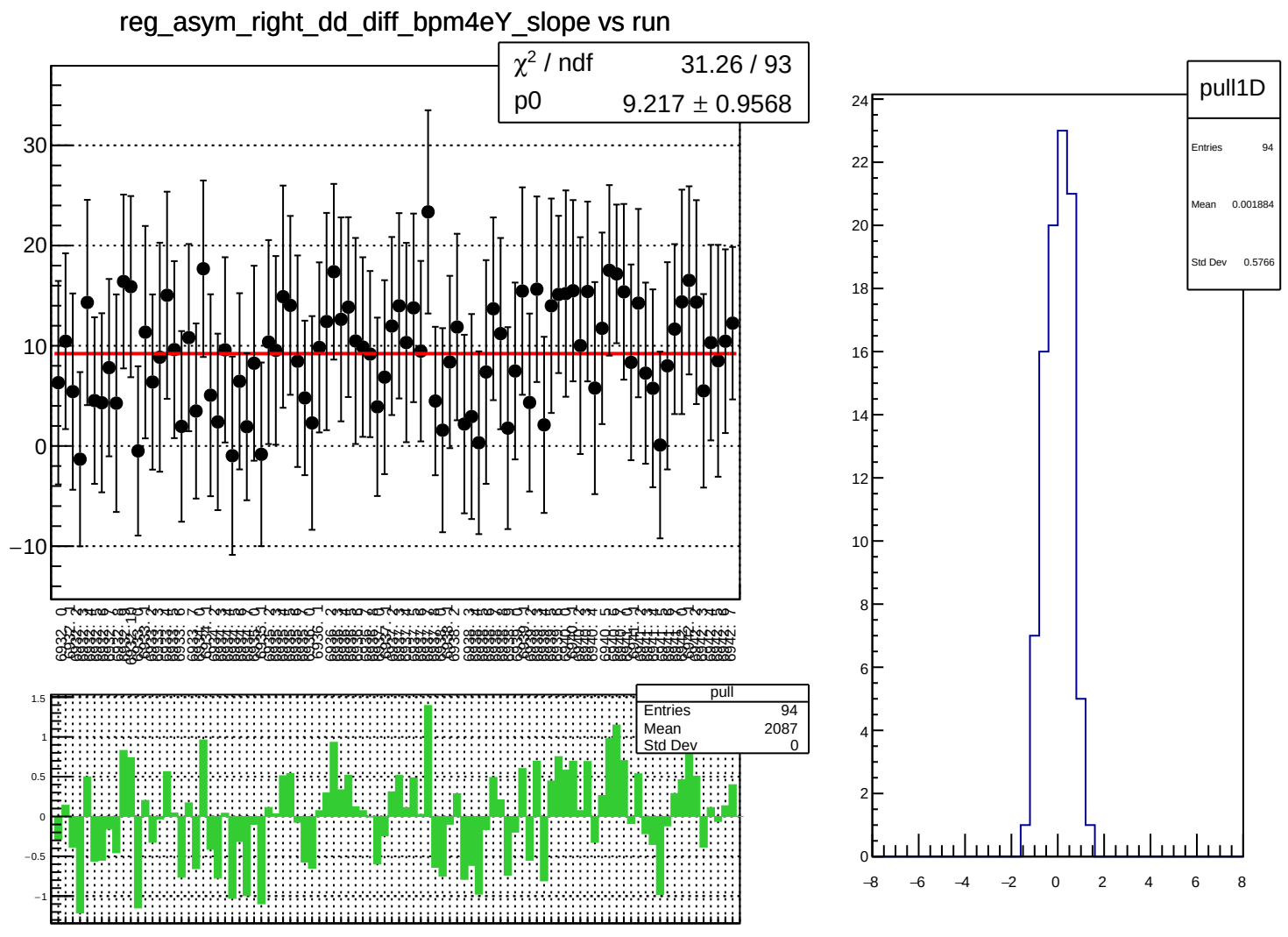

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 49.35 / 93
p0 −33.82 ± 1.232
pull
Entries 94
Mean −145.4
Std Dev 0

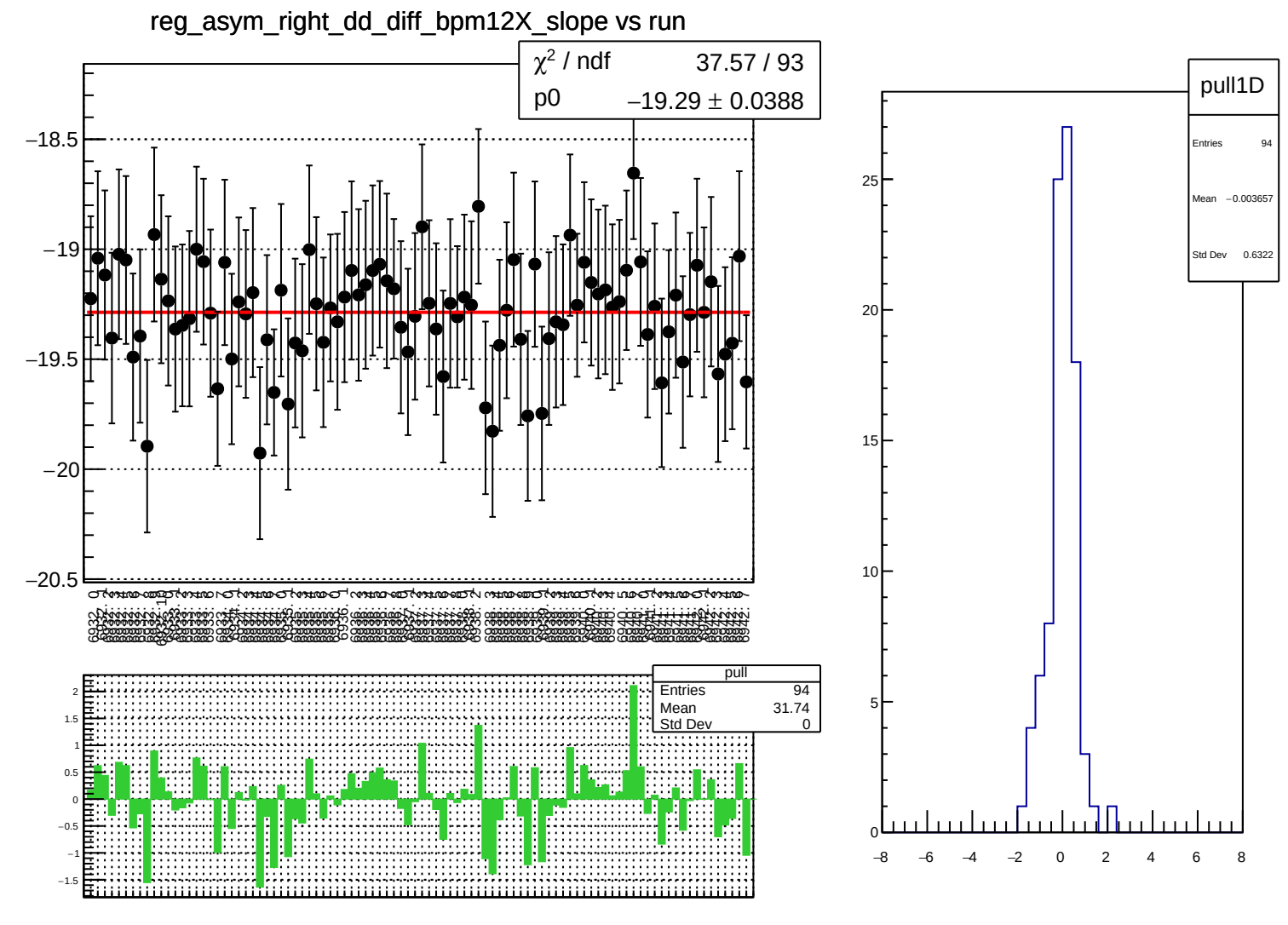

pull1D
Entries 94
Mean −0.0193
Std Dev 0.7243

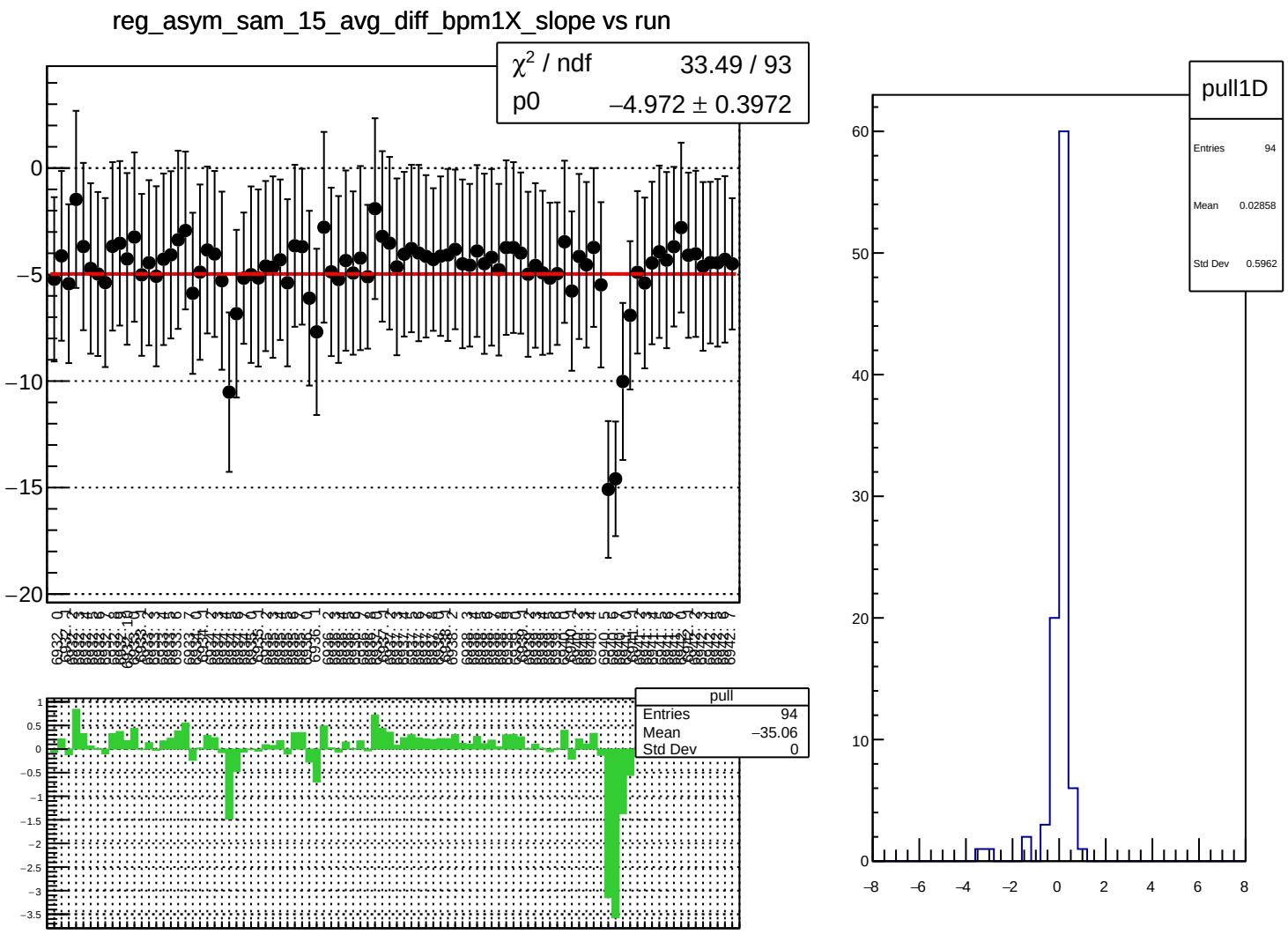

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.44 / 93
p0 0.4593 ± 0.8286
pull
Entries 94
Mean 1936
Std Dev 0

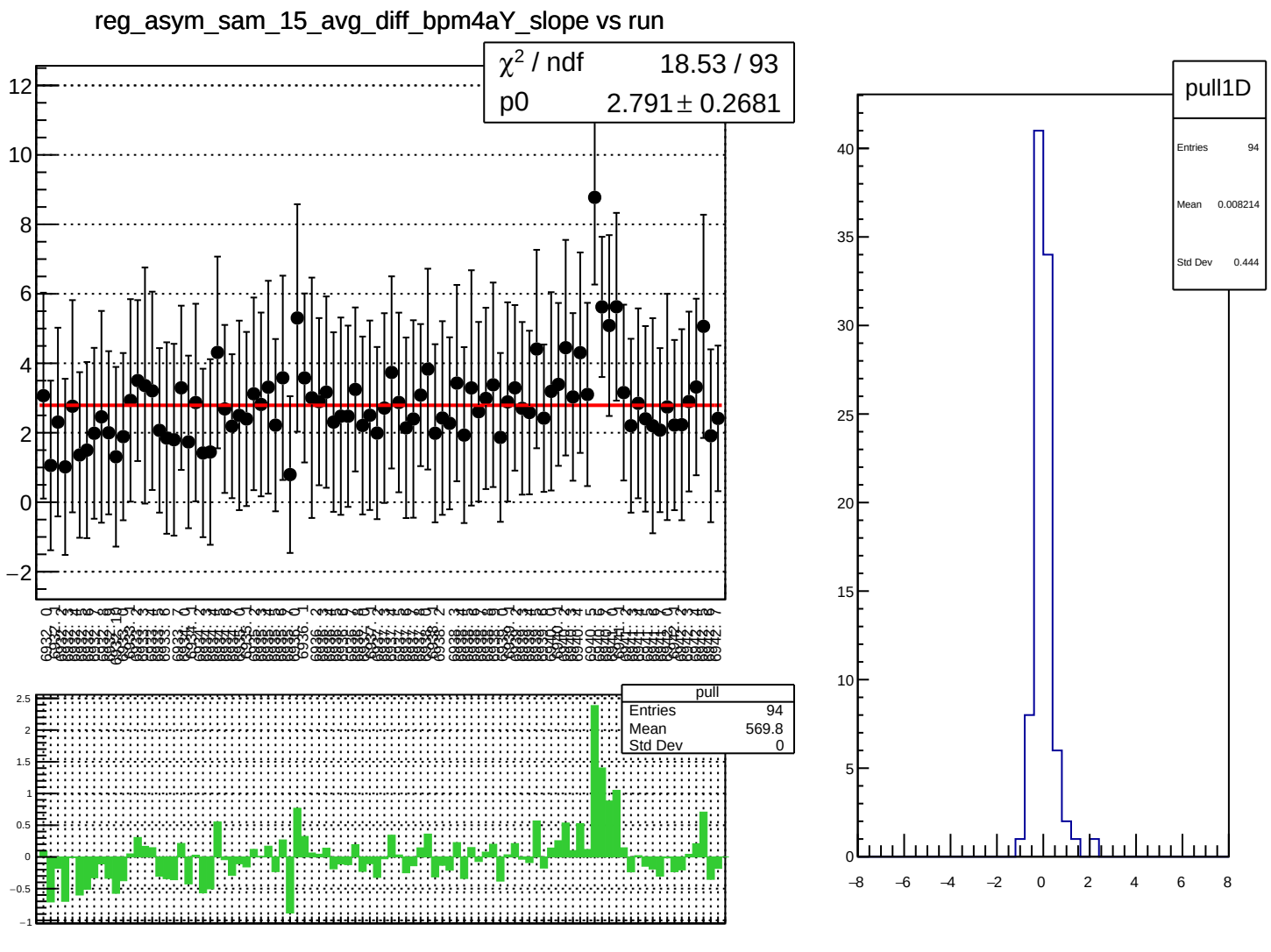

pull1D
Entries 94
Mean −0.002111
Std Dev 0.5874

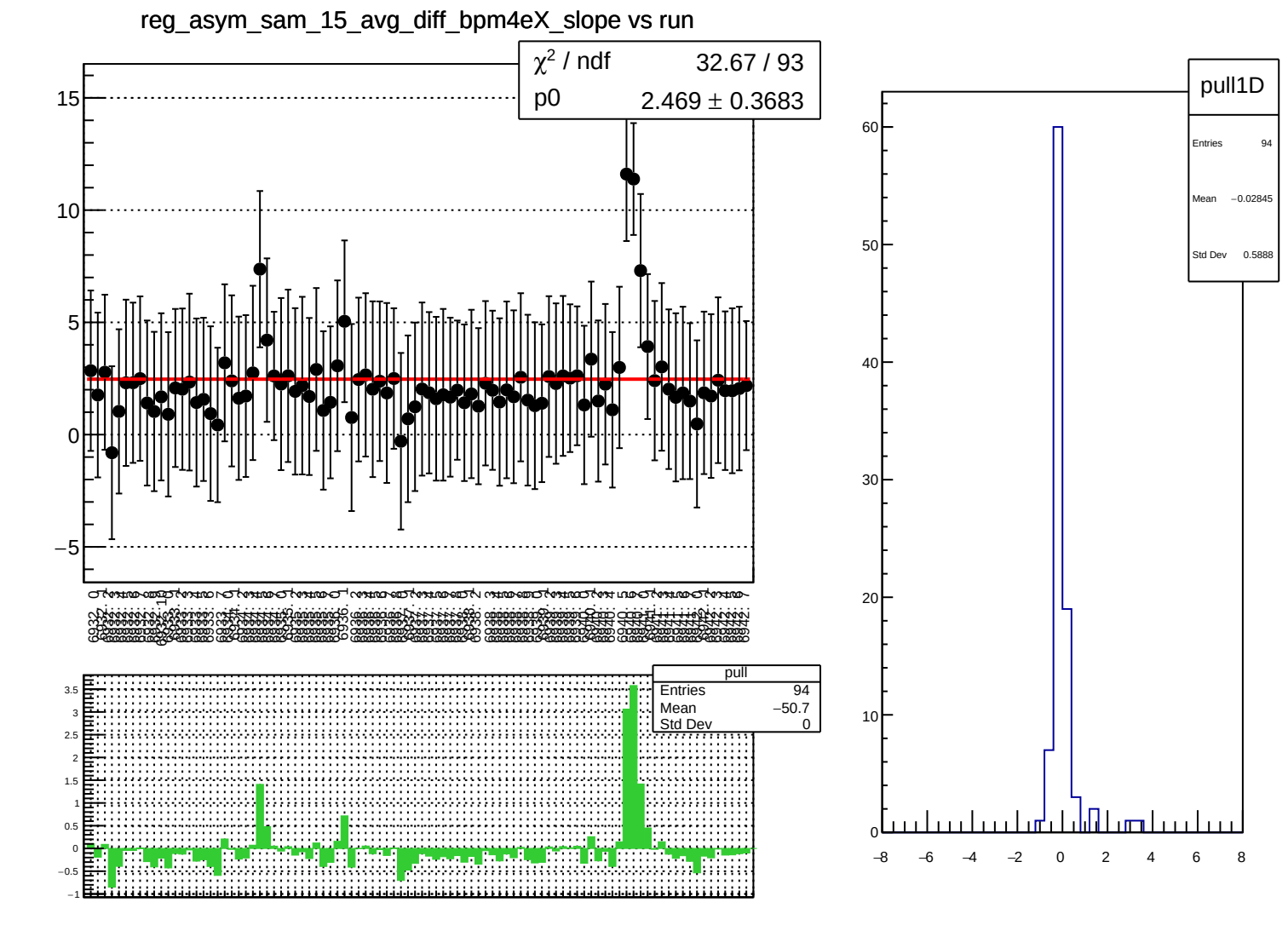

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.27 / 93
p0 62.53 ± 1.142
pull
Entries 94
Mean −133
Std Dev 0
pull1D
Entries 94
Mean 0.02041
Std Dev 0.7237

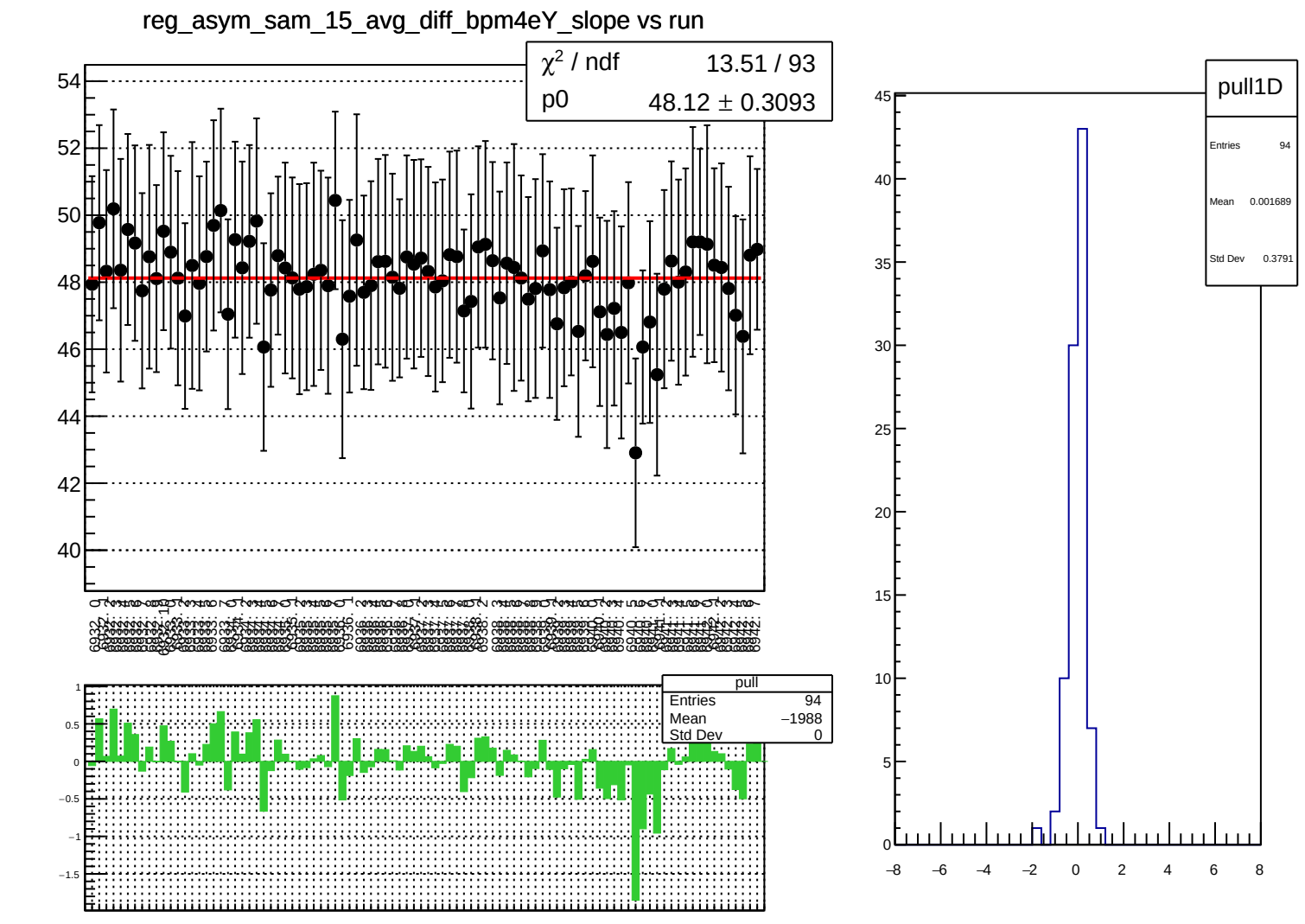

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.26 / 93
p0 9.217 ± 0.9568
pull
Entries 94
Mean 2087
Std Dev 0
pull1D
Entries 94
Mean 0.001884
Std Dev 0.5766

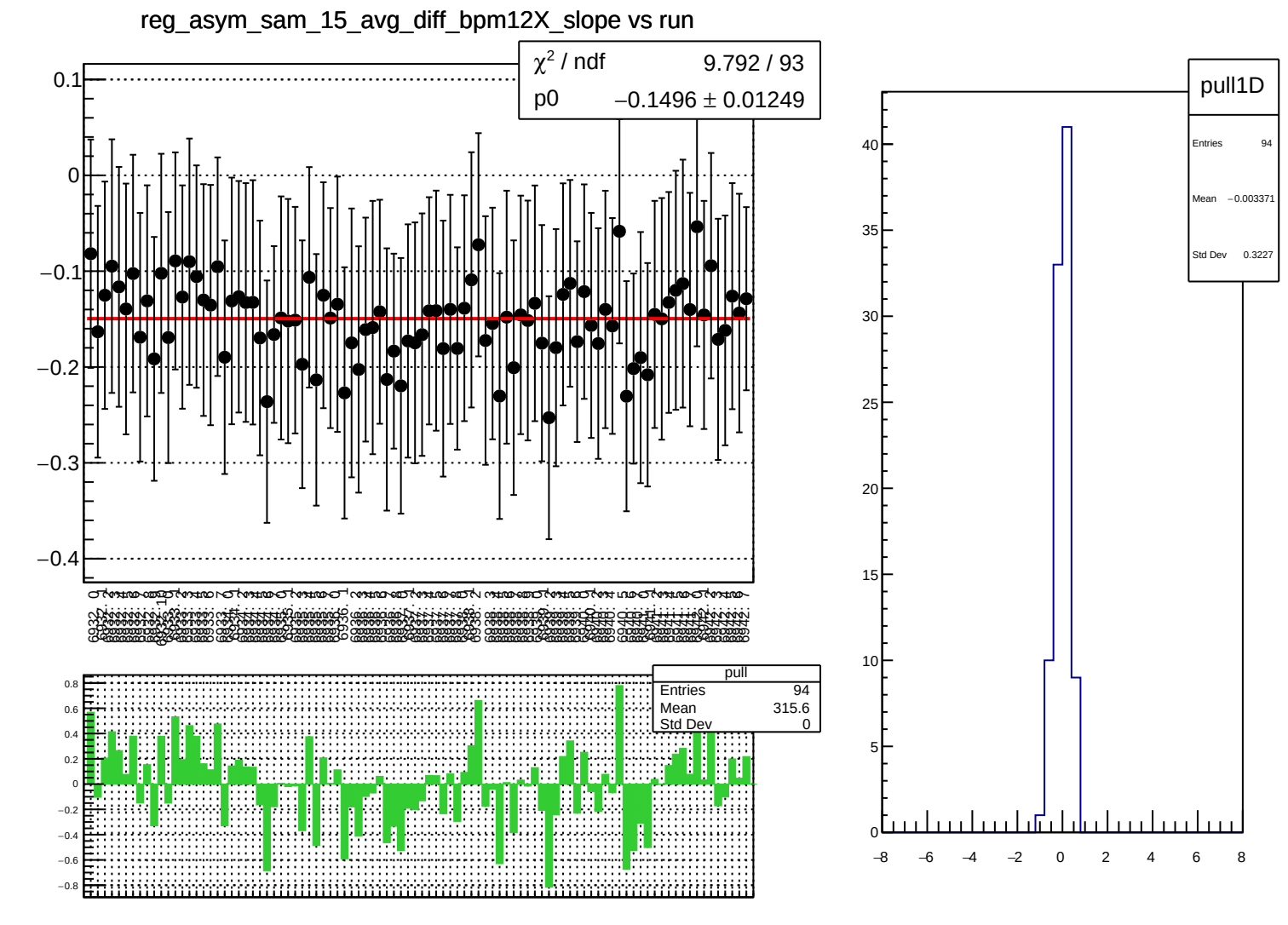

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 37.57 / 93
p0 −19.29 ± 0.0388
−18.5
−19
−19.5
−20
−20.5
pull
Entries 94
Mean 31.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.003657
Std Dev 0.6322
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

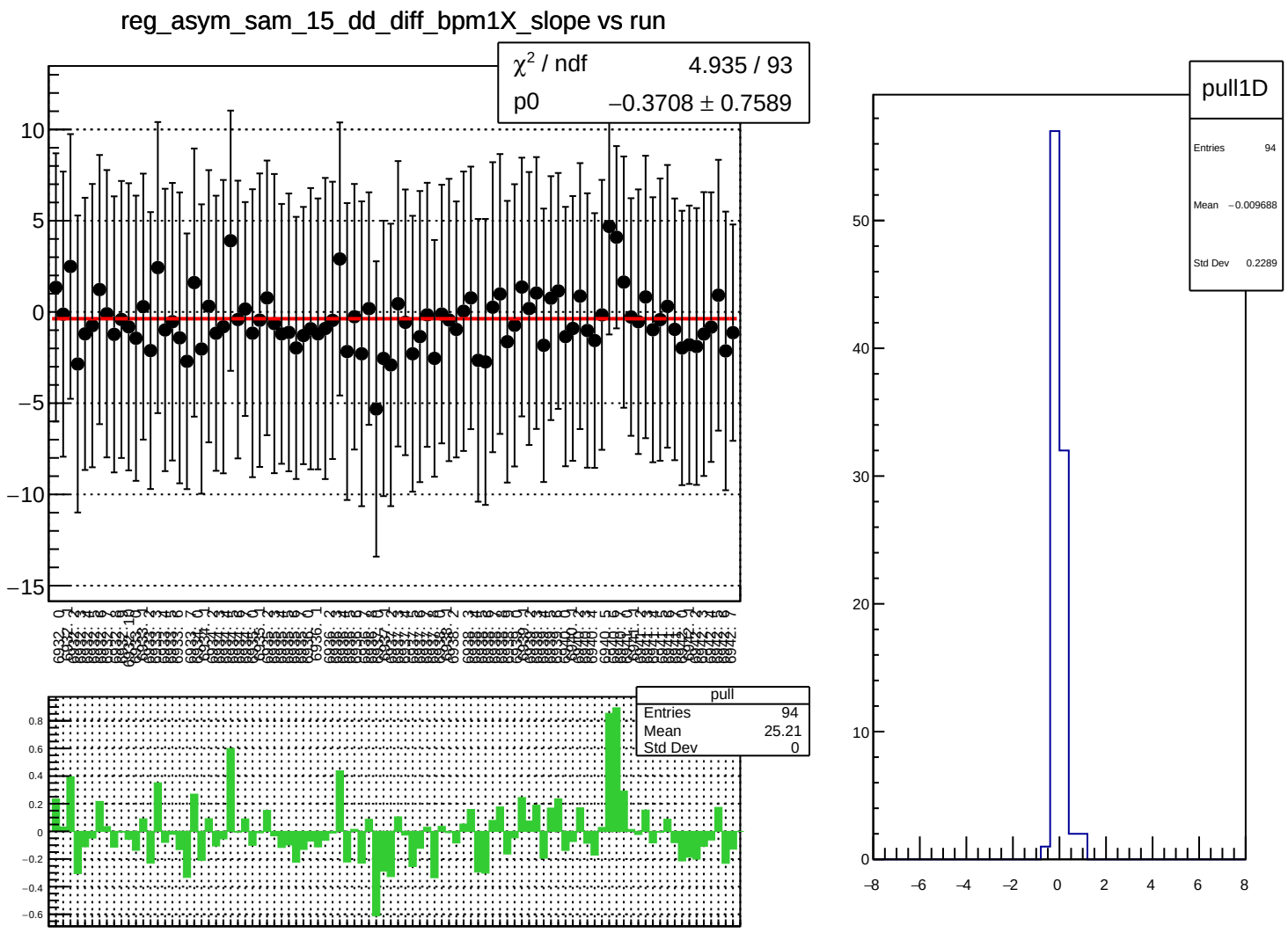

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 33.49 / 93
p0 −4.972 ± 0.3972
pull
Entries 94
Mean −35.06
Std Dev 0
pull1D
Entries 94
Mean 0.02858
Std Dev 0.5962

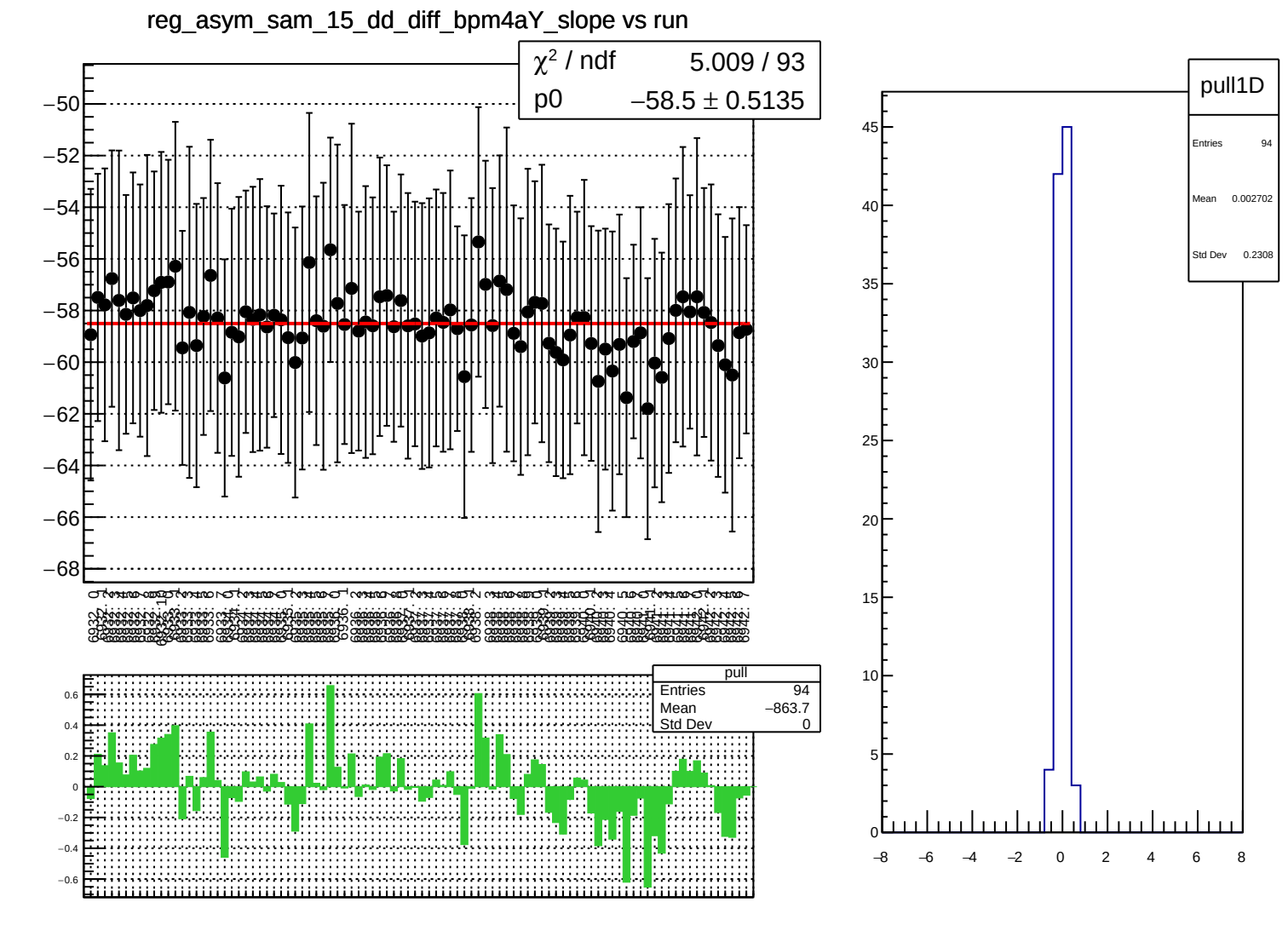

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.53 / 93
p0 2.791 ± 0.2681
pull
Entries 94
Mean 569.8
Std Dev 0
pull1D
Entries 94
Mean 0.008214
Std Dev 0.444

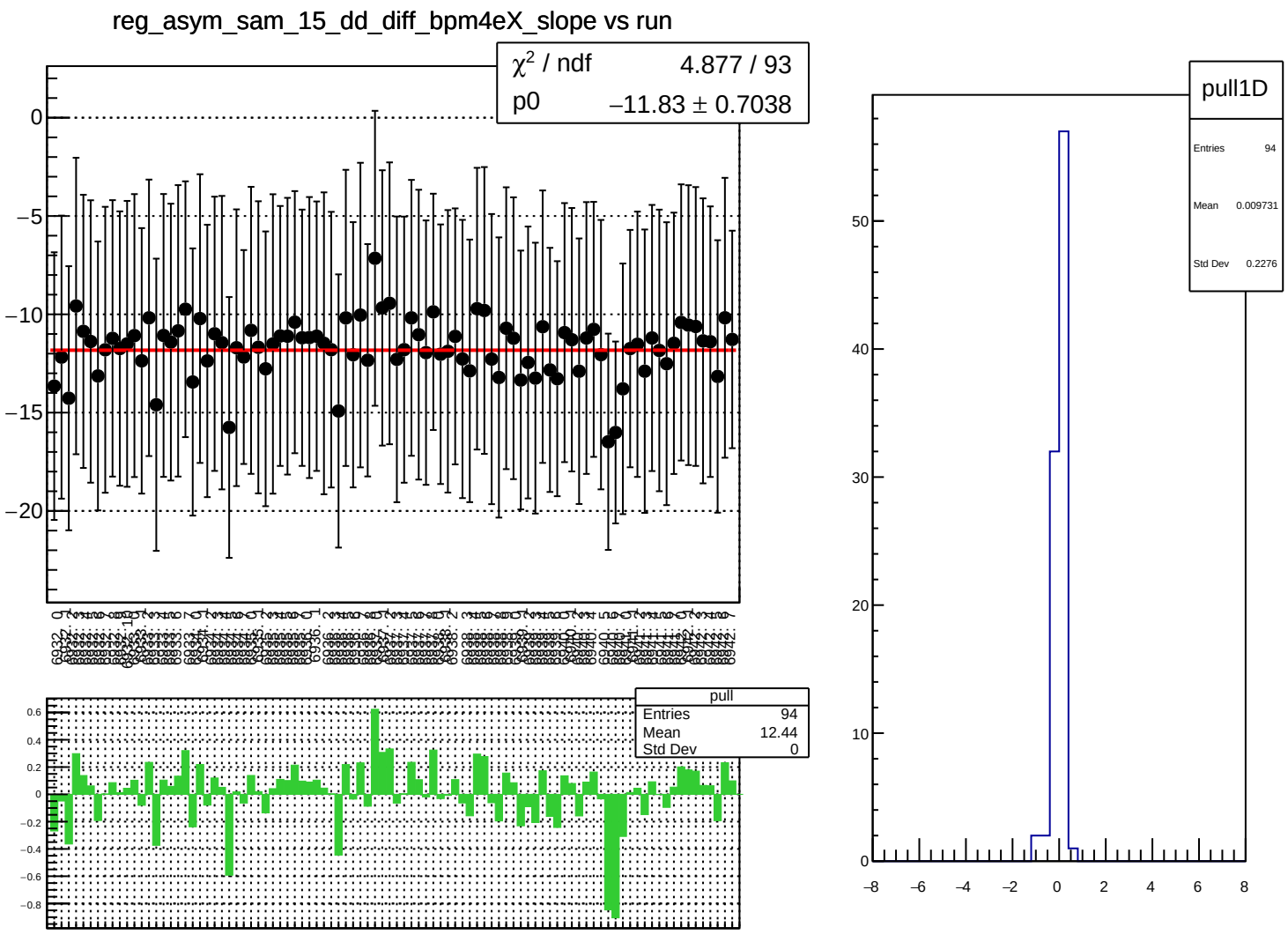

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.67 / 93
p0 2.469 ± 0.3683
pull
Entries 94
Mean −50.7
Std Dev 0
pull1D
Entries 94
Mean −0.02845
Std Dev 0.5888

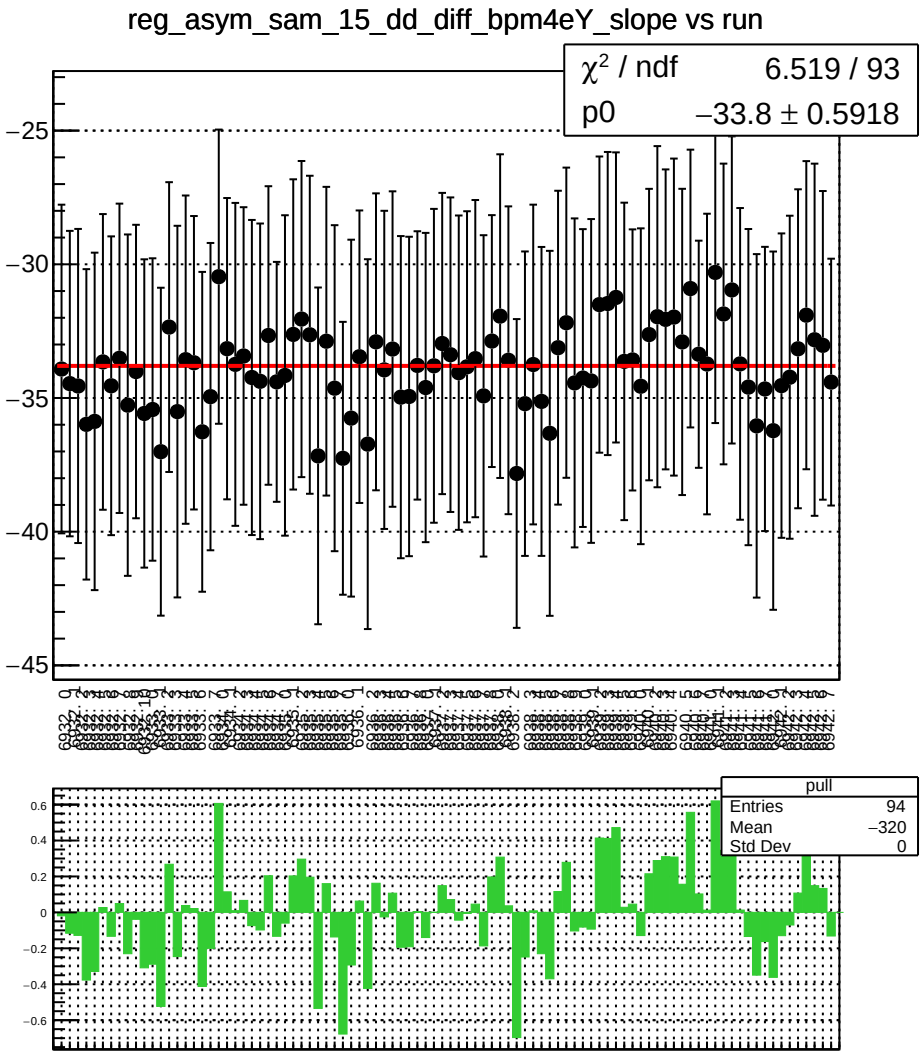

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.51 / 93
p0 48.12 ± 0.3093
pull
Entries 94
Mean −1988
Std Dev 0
pull1D
Entries 94
Mean 0.001689
Std Dev 0.3791

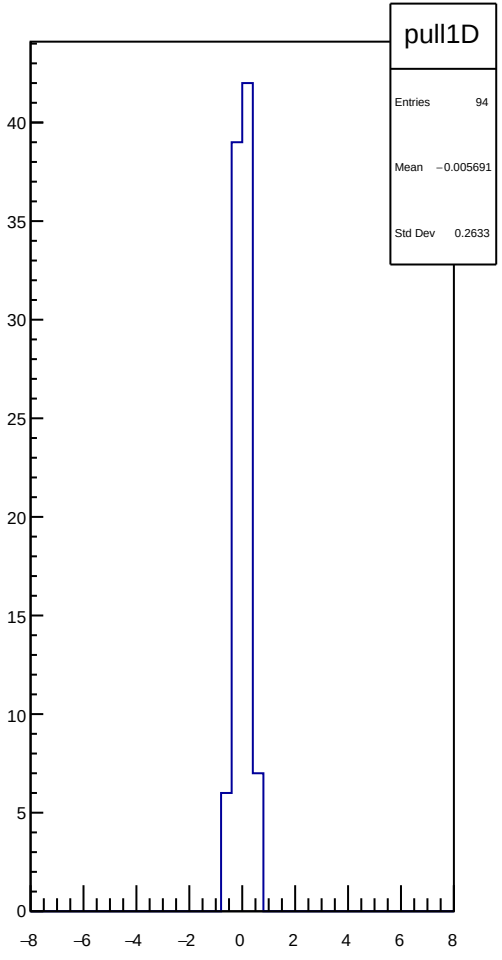

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 9.792 / 93
p0 −0.1496 ± 0.01249
pull
Entries 94
Mean 315.6
Std Dev 0
pull1D
Entries 94
Mean −0.003371
Std Dev 0.3227

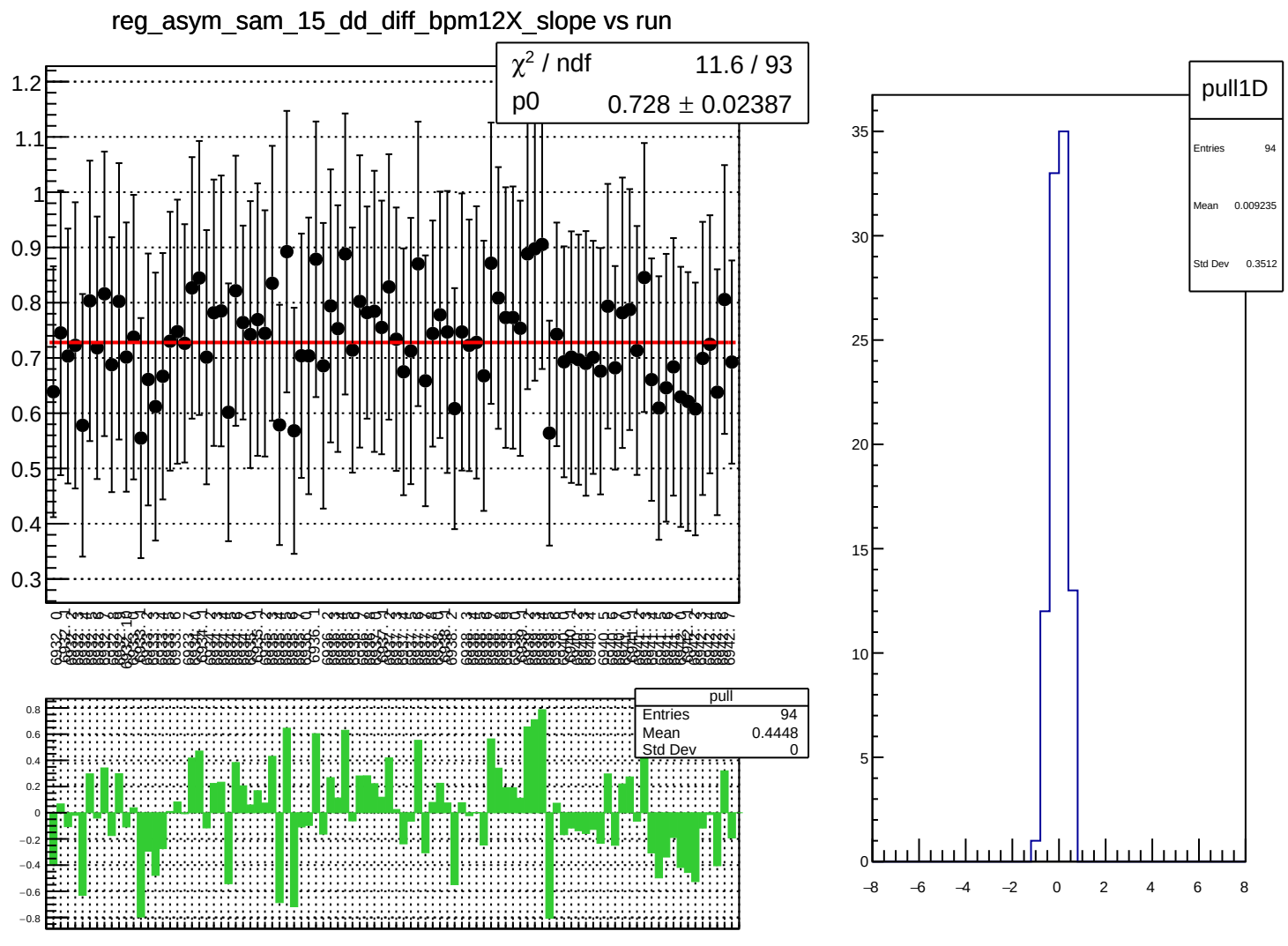

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.935 / 93
p0 −0.3708 ± 0.7589
pull
Entries 94
Mean 25.21
Std Dev 0
pull1D
Entries 94
Mean −0.009688
Std Dev 0.2289

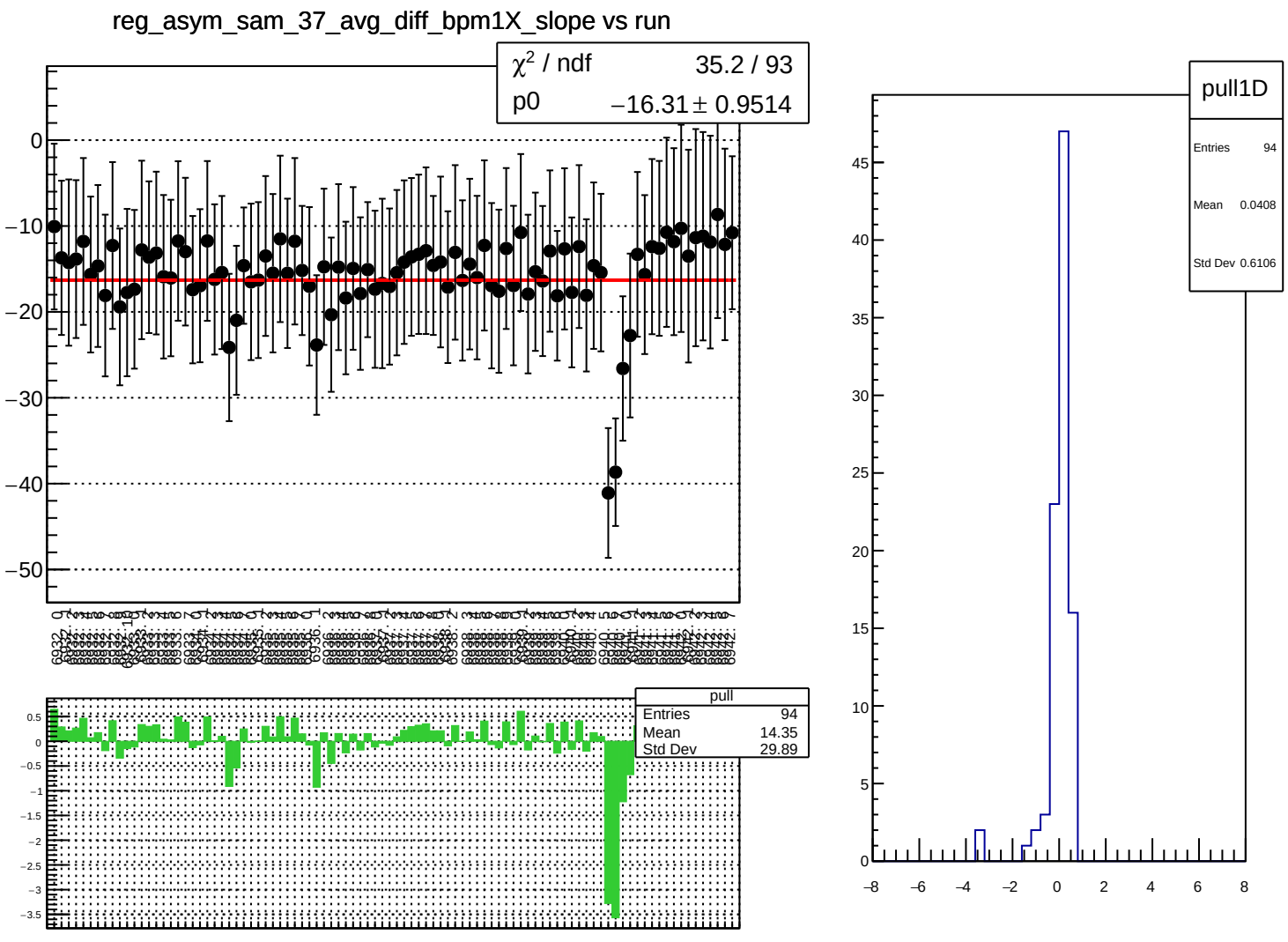

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.009 / 93
p0 −58.5 ± 0.5135
pull
Entries 94
Mean −863.7
Std Dev 0
pull1D
Entries 94
Mean 0.002702
Std Dev 0.2308

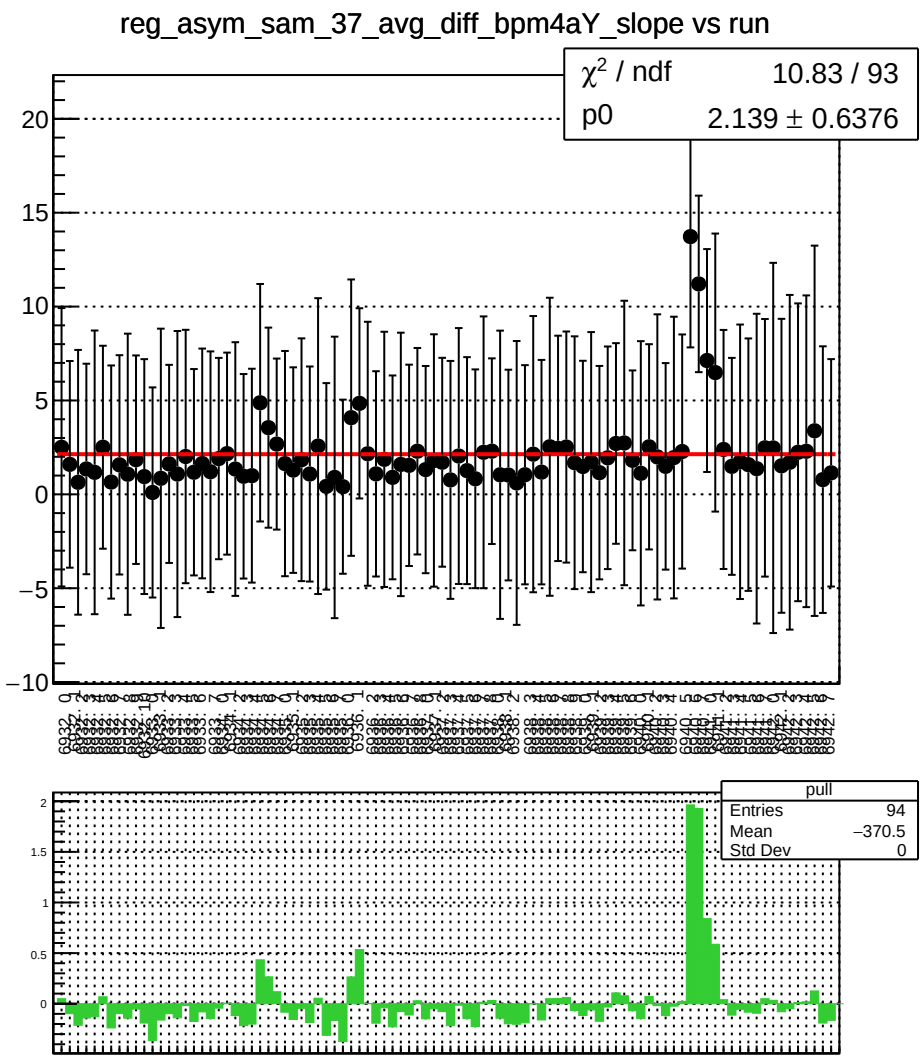

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.877 / 93
p0 −11.83 ± 0.7038
pull
Entries 94
Mean 12.44
Std Dev 0
pull1D
Entries 94
Mean 0.009731
Std Dev 0.2276

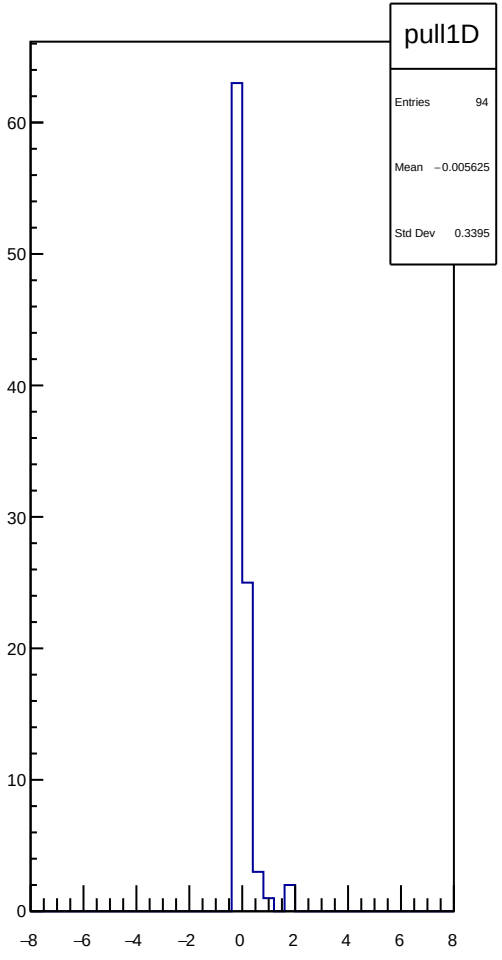

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.519 / 93
p0 −33.8 ± 0.5918
−25
−30
−35
−40
−45
pull
Entries 94
Mean −320
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

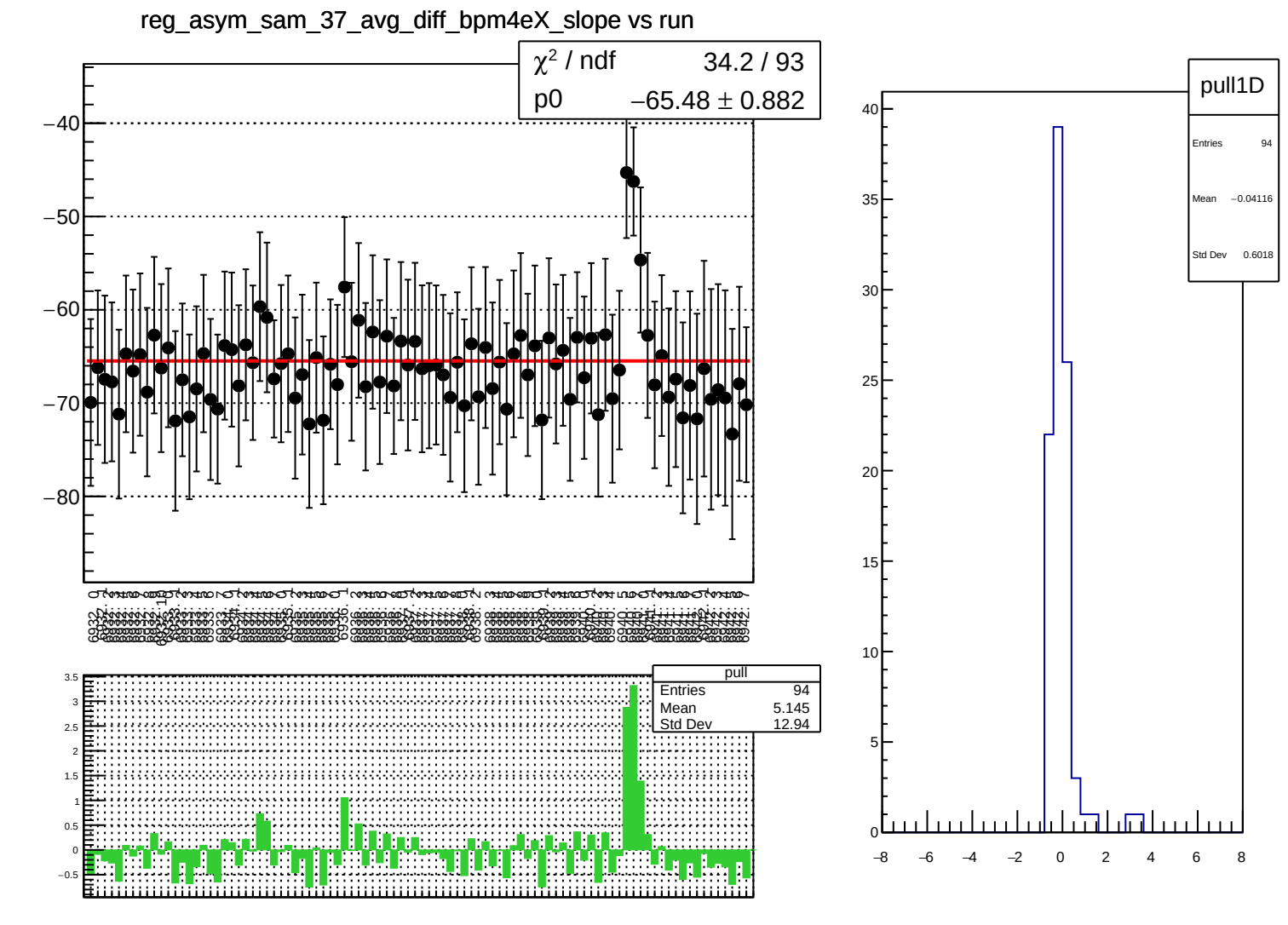

pull1D
Entries 94
Mean −0.005691
Std Dev 0.2633
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

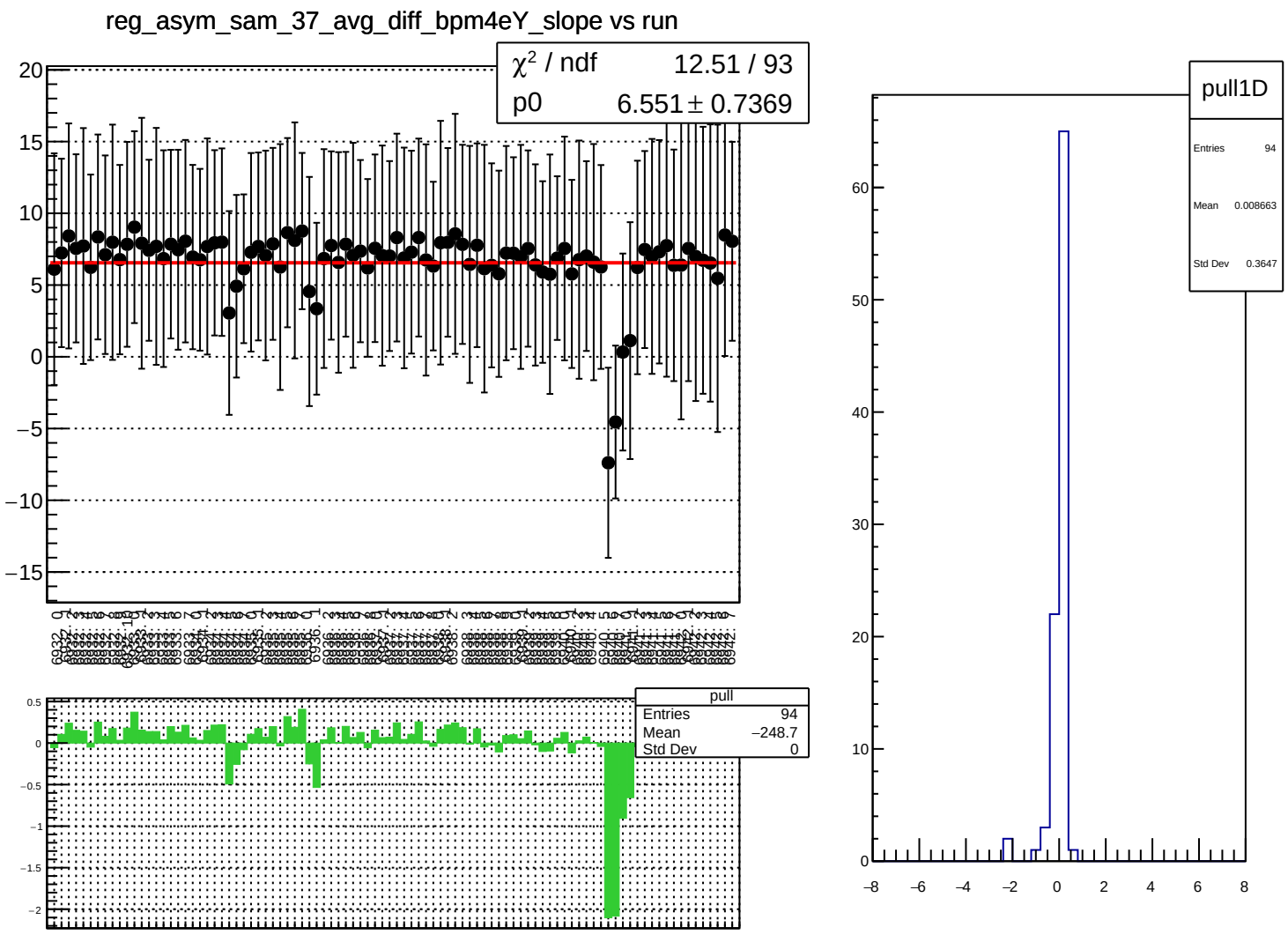

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 11.6 / 93
p0 0.728 ± 0.02387
pull
Entries 94
Mean 0.4448
Std Dev 0
pull1D
Entries 94
Mean 0.009235
Std Dev 0.3512

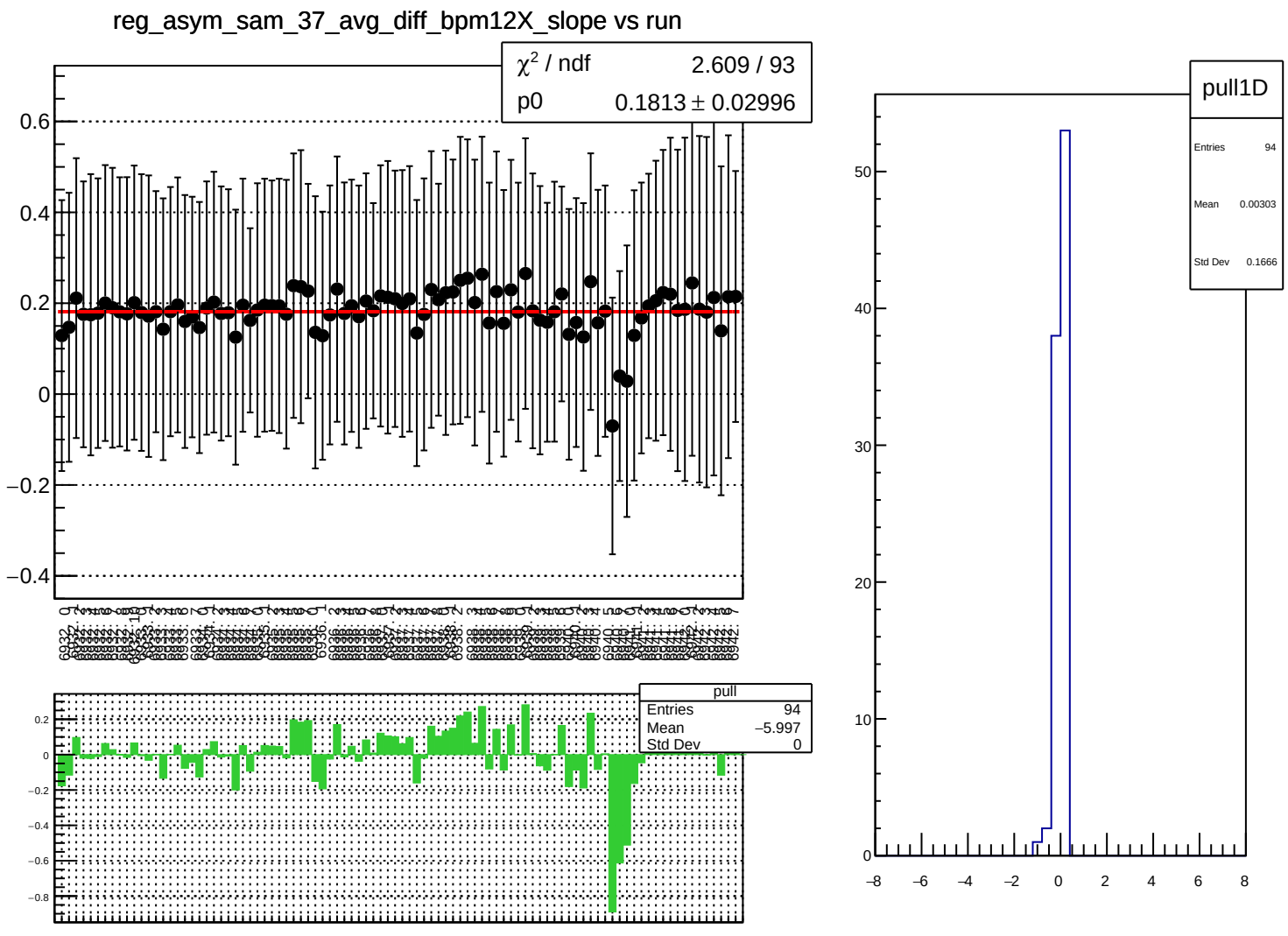

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 35.2 / 93
p0 −16.31 ± 0.9514
pull
Entries 94
Mean 14.35
Std Dev 29.89
pull1D
Entries 94
Mean 0.0408
Std Dev 0.6106

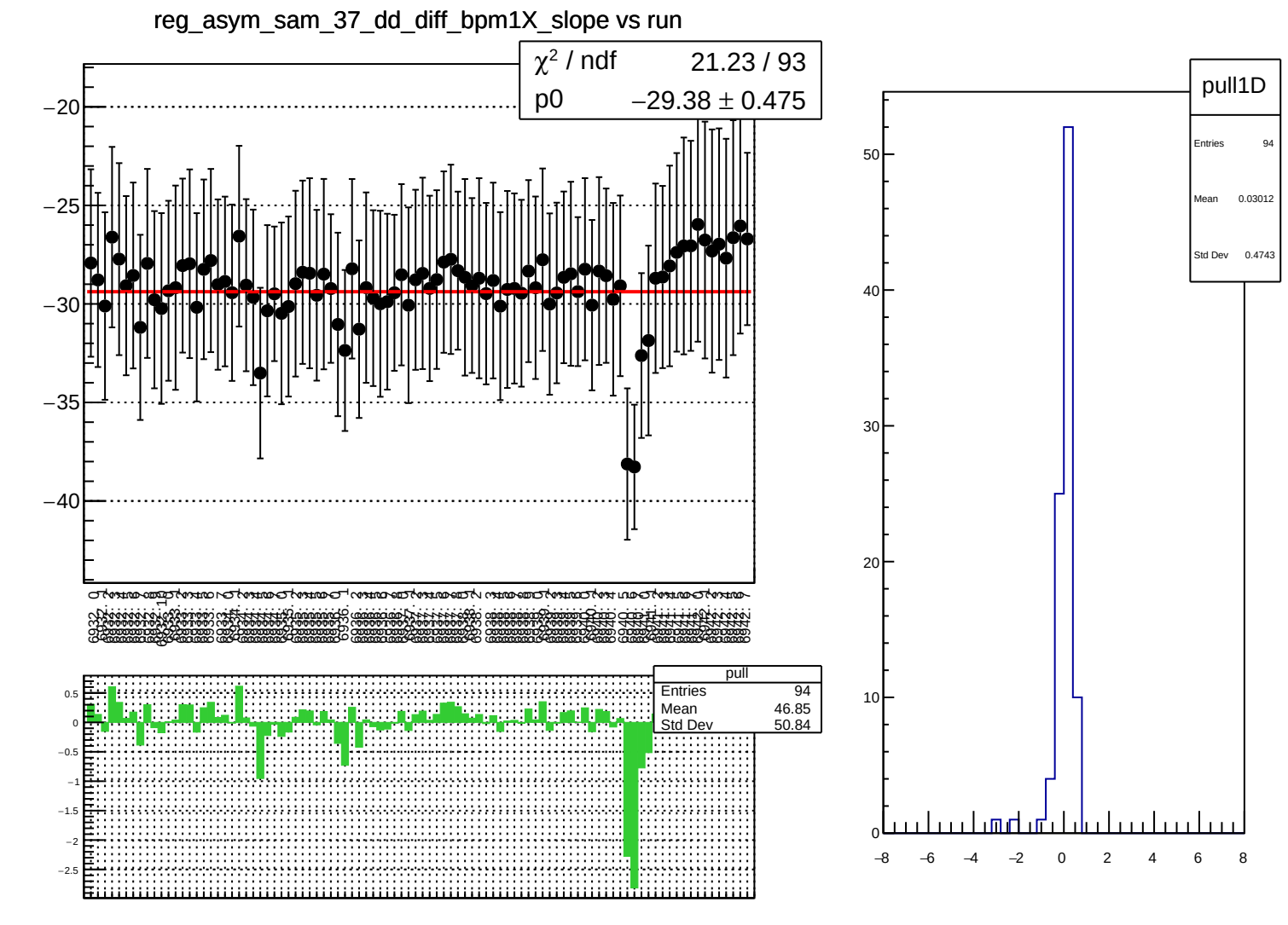

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.83 / 93
p0 2.139 ± 0.6376
pull
Entries 94
Mean −370.5
Std Dev 0

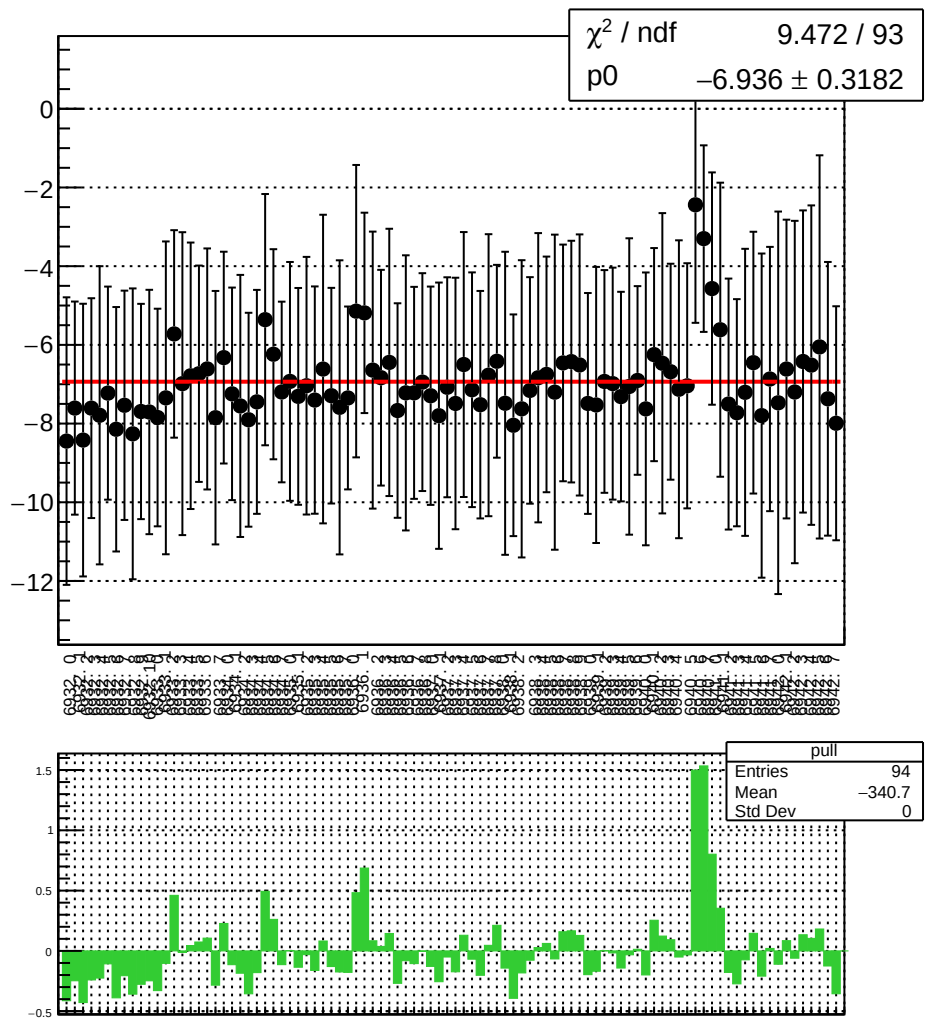

pull1D
Entries 94
Mean −0.005625
Std Dev 0.3395

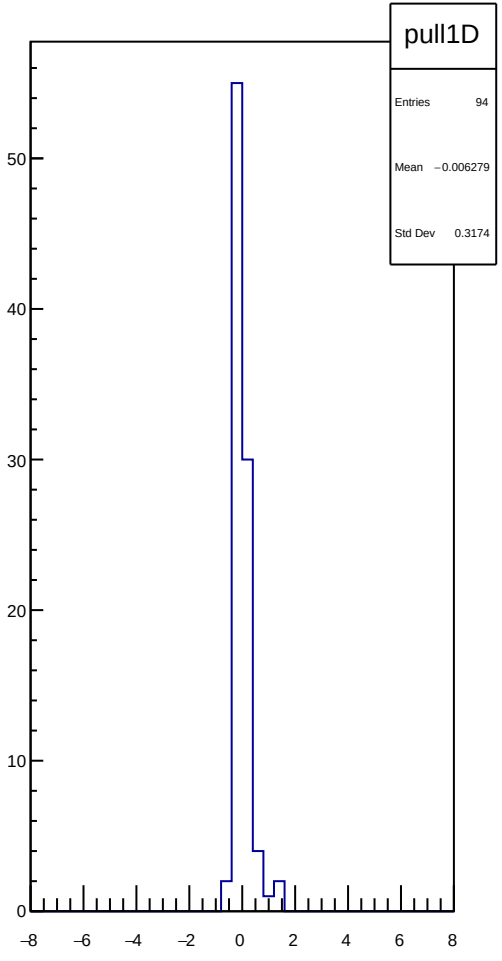

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 34.2 / 93
p0 −65.48 ± 0.882
−40
−50
−60
−70
−80
pull
Entries 94
Mean 5.145
Std Dev 12.94
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.04116
Std Dev 0.6018
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

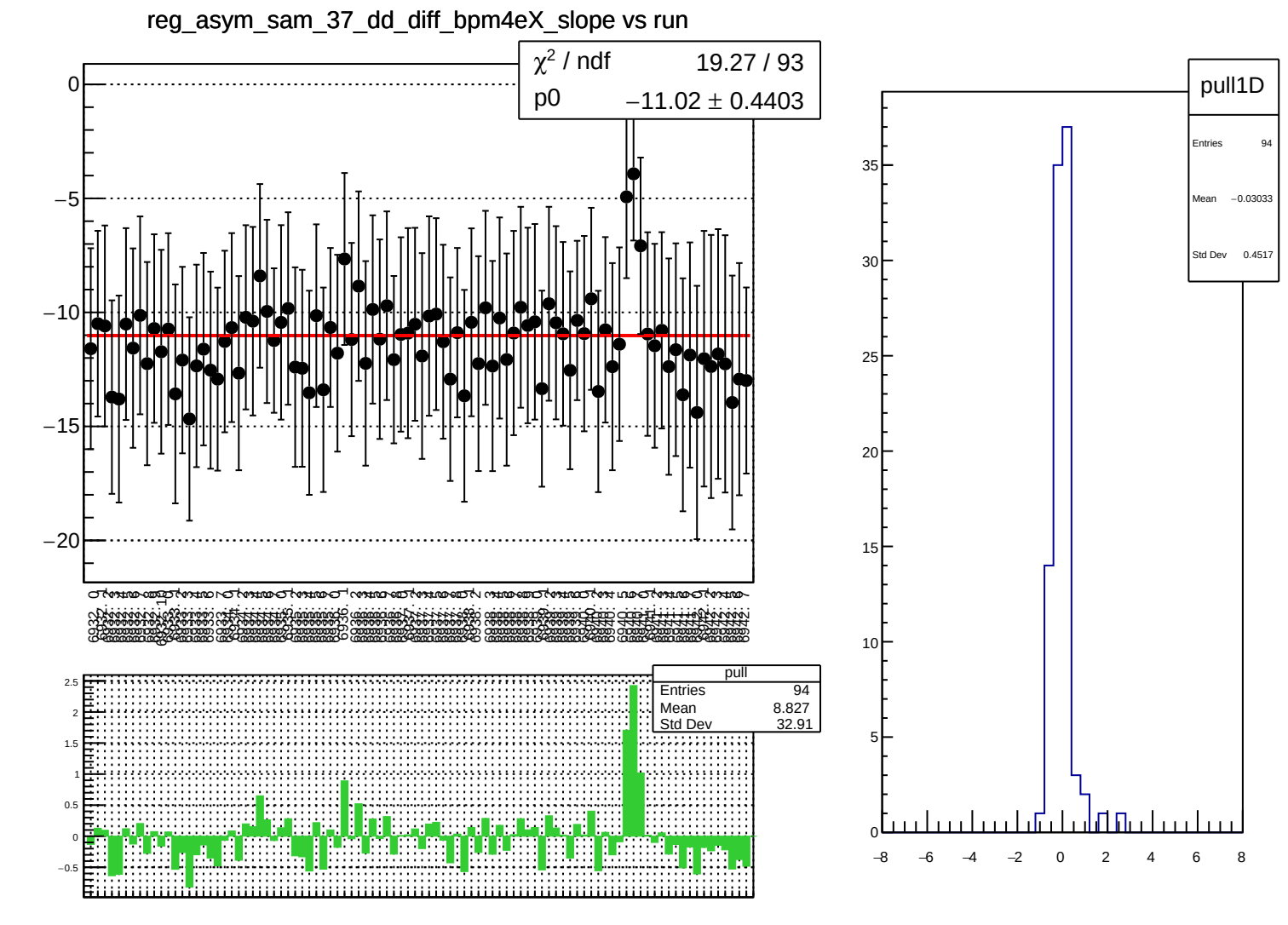

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.51 / 93
p0 6.551 ± 0.7369
pull
Entries 94
Mean −248.7
Std Dev 0
pull1D
Entries 94
Mean 0.008663
Std Dev 0.3647

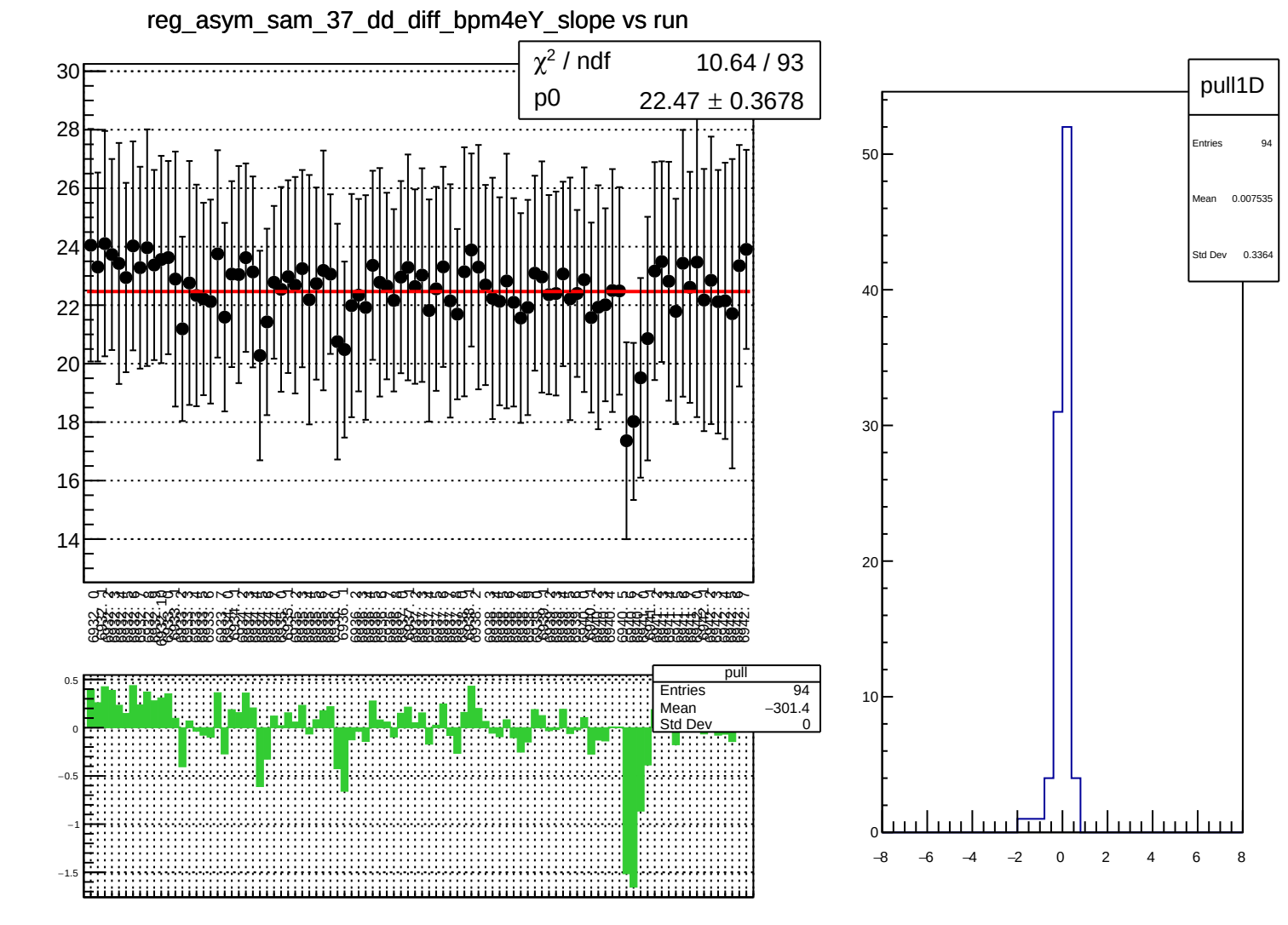

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 2.609 / 93
p0 0.1813 ± 0.02996
pull
Entries 94
Mean −5.997
Std Dev 0
pull1D
Entries 94
Mean 0.00303
Std Dev 0.1666

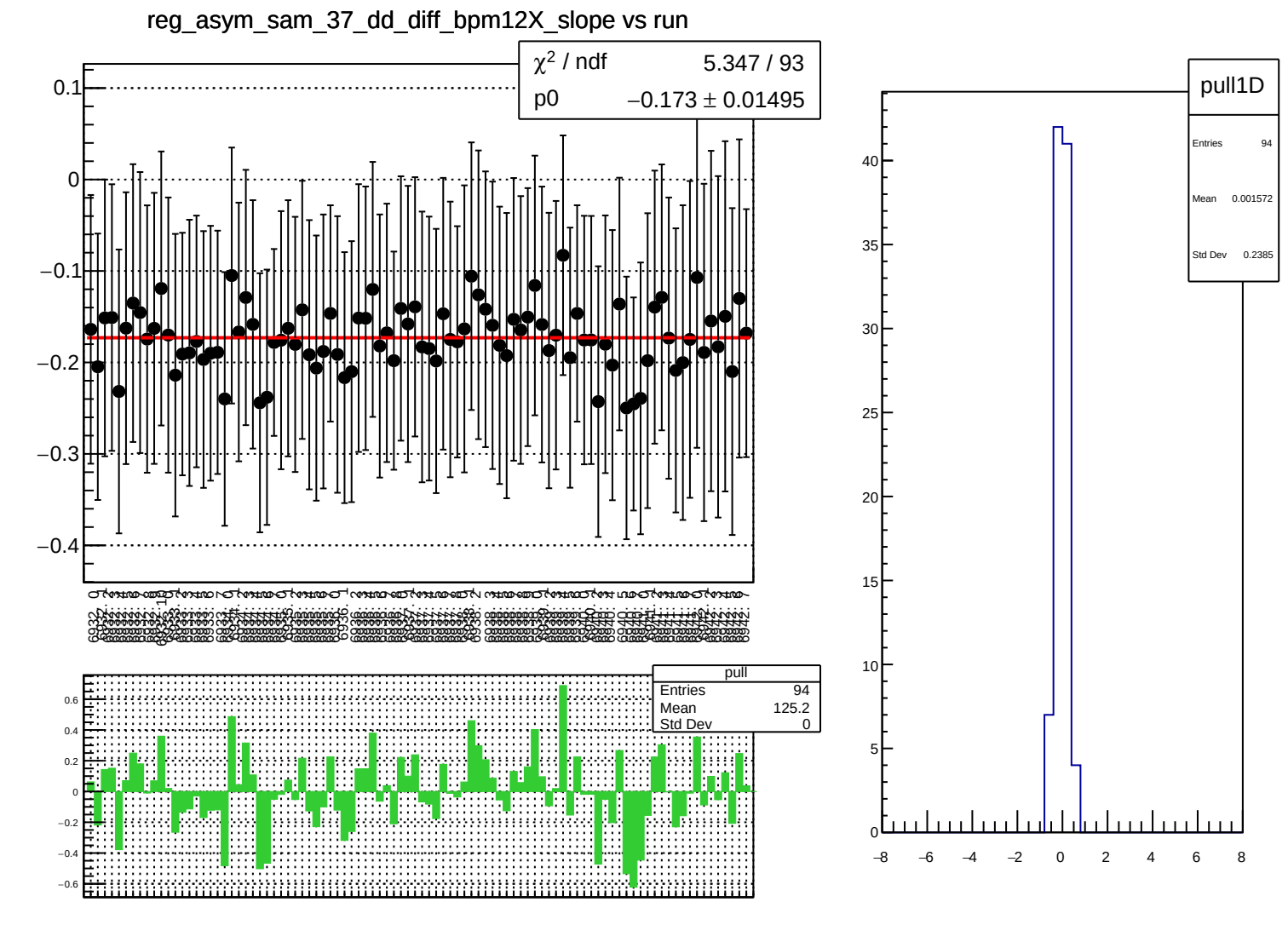

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 21.23 / 93
p0 −29.38 ± 0.475
pull
Entries 94
Mean 46.85
Std Dev 50.84
pull1D
Entries 94
Mean 0.03012
Std Dev 0.4743

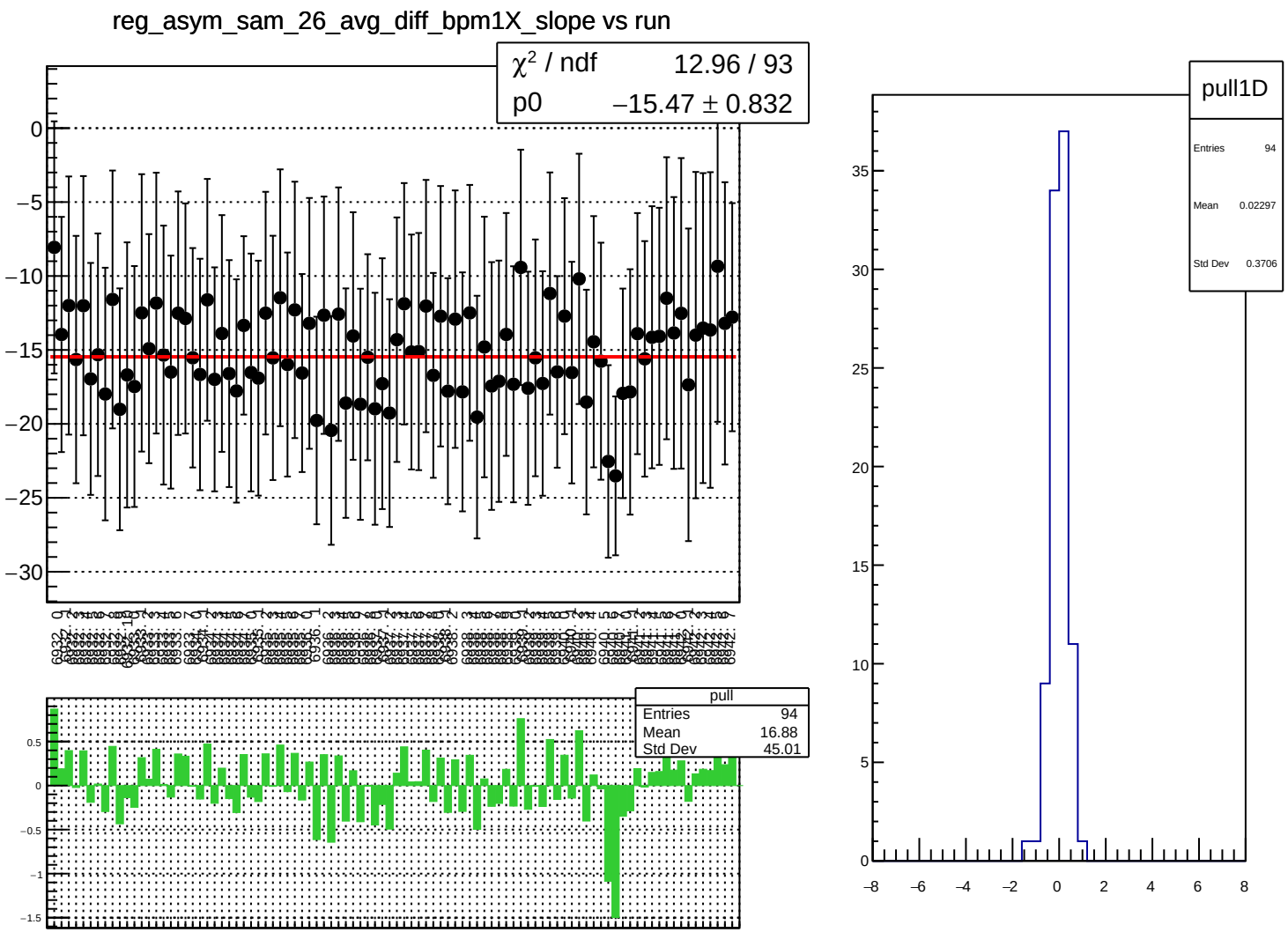

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.472 / 93
p0 −6.936 ± 0.3182
pull
Entries 94
Mean −340.7
Std Dev 0

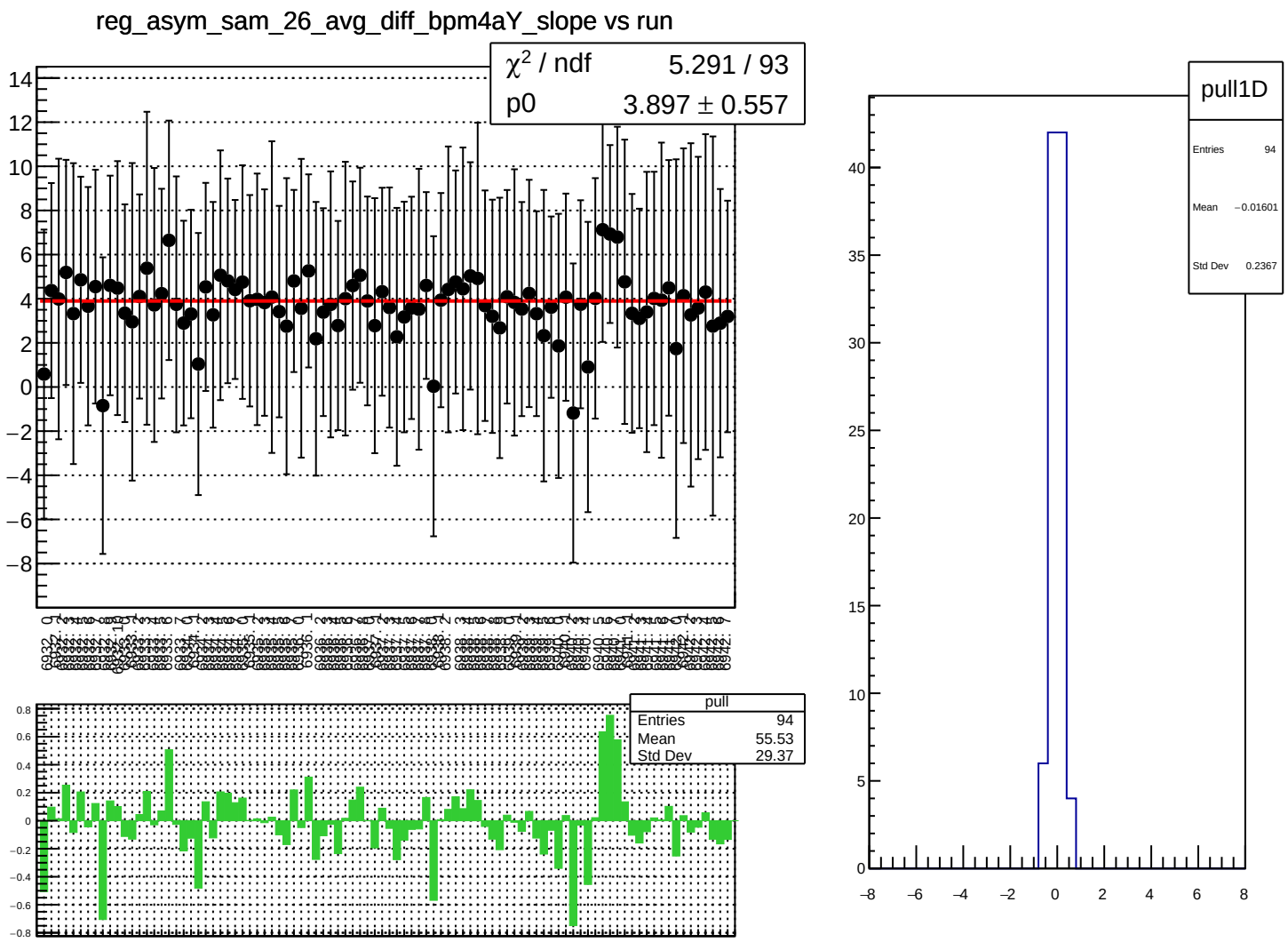

pull1D
Entries 94
Mean −0.006279
Std Dev 0.3174

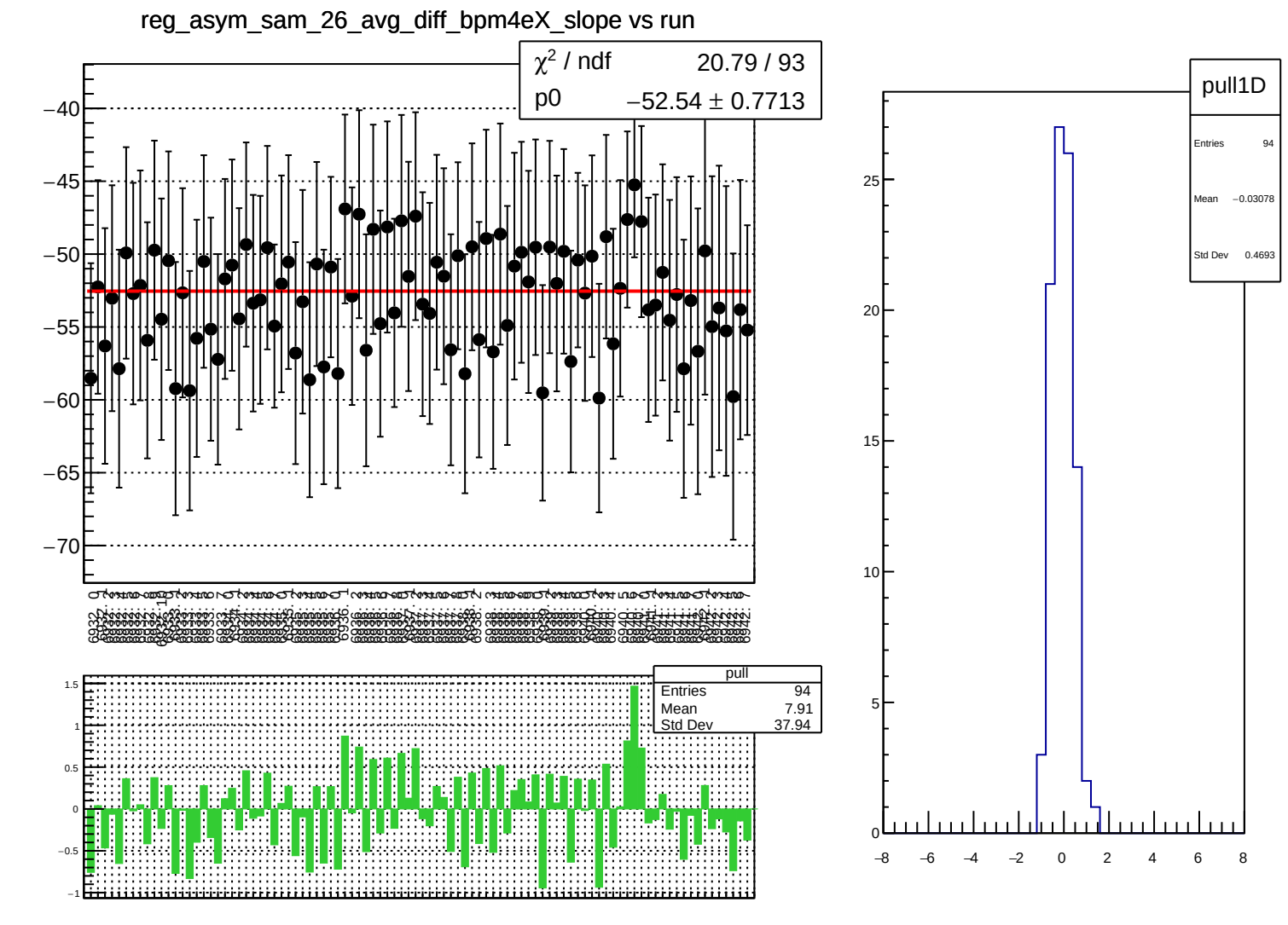

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.27 / 93
p0 −11.02 ± 0.4403
pull
Entries 94
Mean 8.827
Std Dev 32.91
pull1D
Entries 94
Mean −0.03033
Std Dev 0.4517

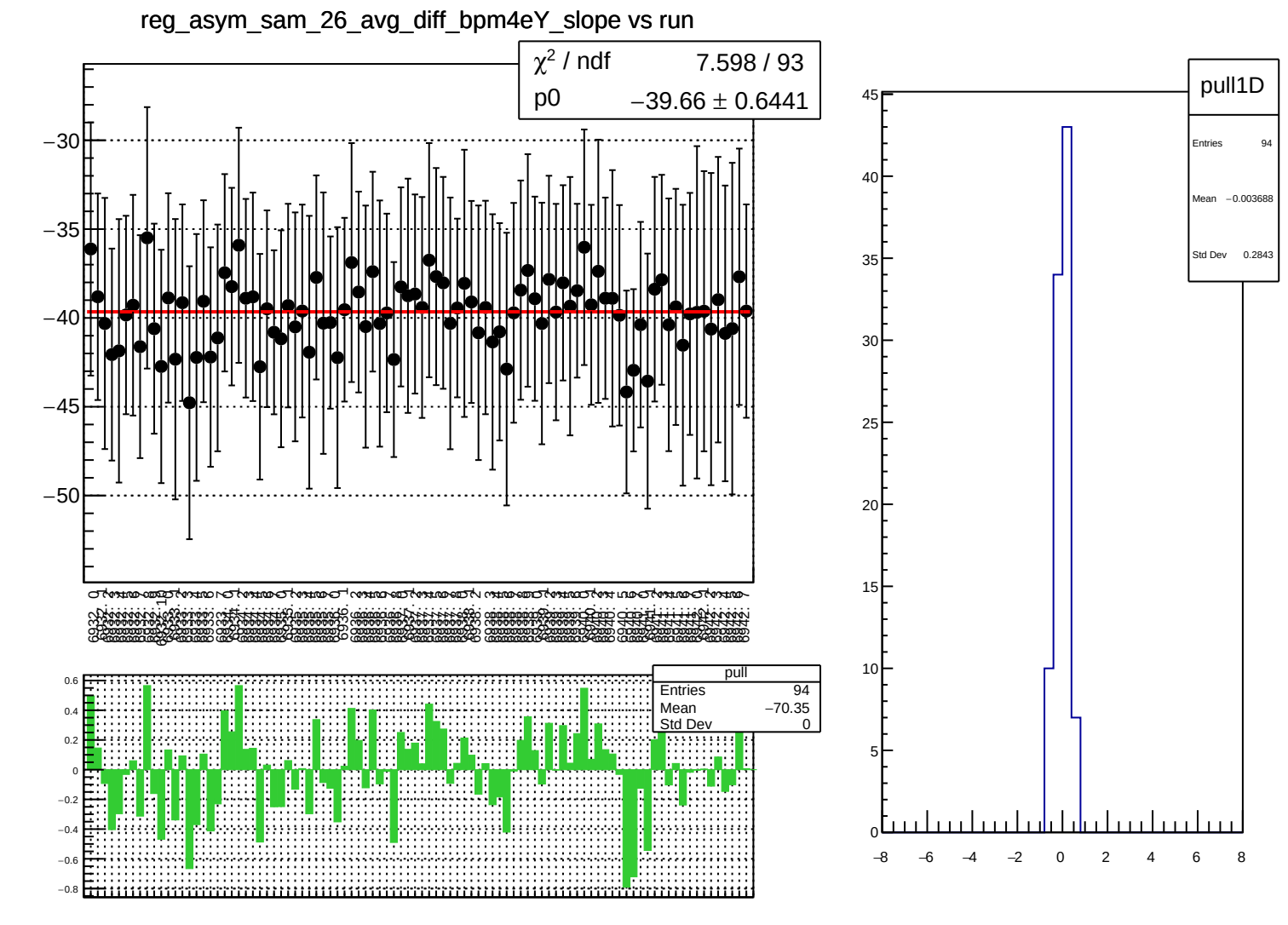

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.64 / 93
p0 22.47 ± 0.3678
pull
Entries 94
Mean −301.4
Std Dev 0
pull1D
Entries 94
Mean 0.007535
Std Dev 0.3364

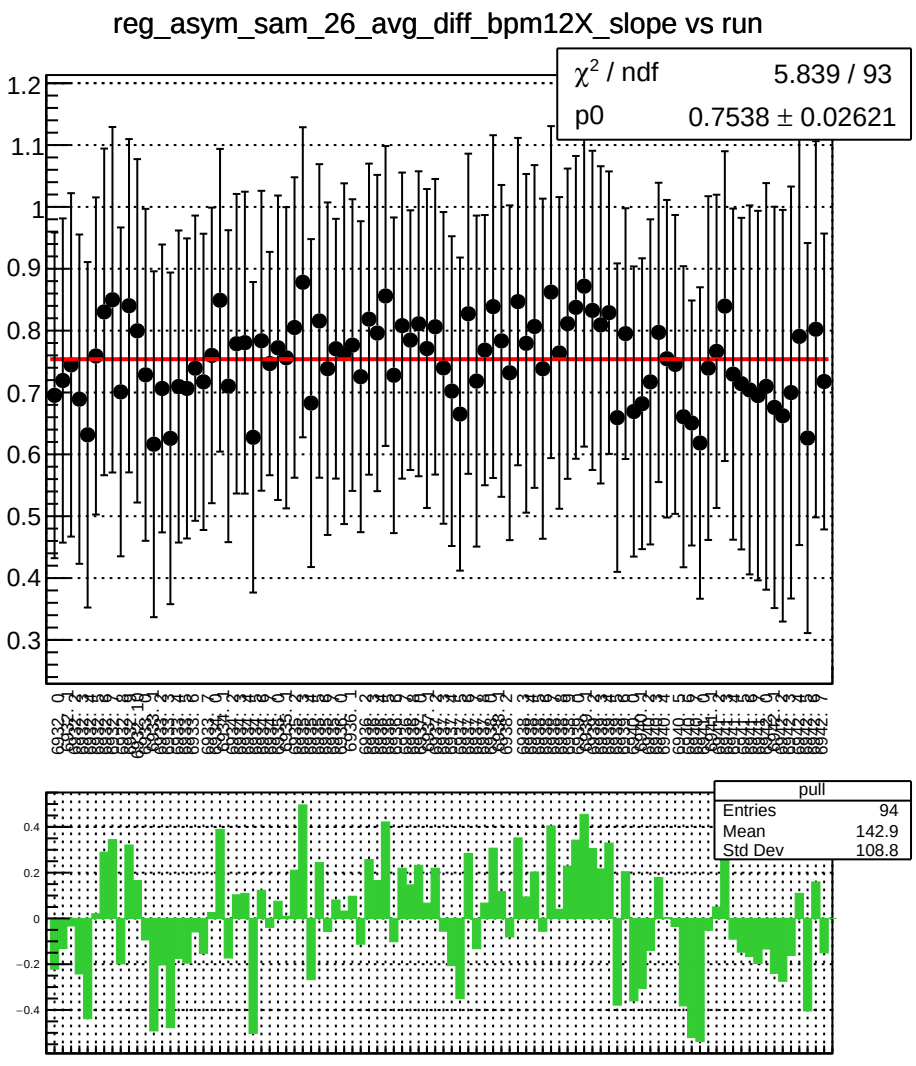

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.347 / 93
p0 −0.173 ± 0.01495
pull
Entries 94
Mean 125.2
Std Dev 0
pull1D
Entries 94
Mean 0.001572
Std Dev 0.2385

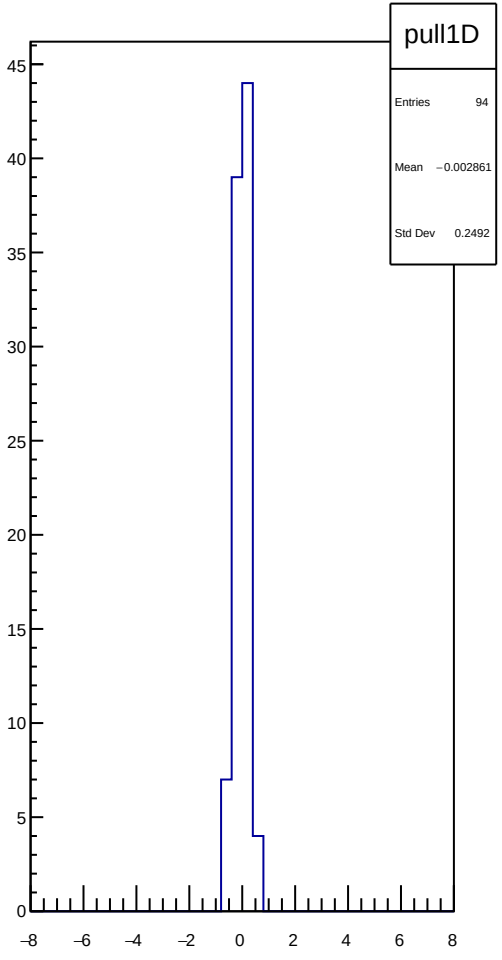

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 12.96 / 93
p0 −15.47 ± 0.832
pull
Entries 94
Mean 16.88
Std Dev 45.01
pull1D
Entries 94
Mean 0.02297
Std Dev 0.3706

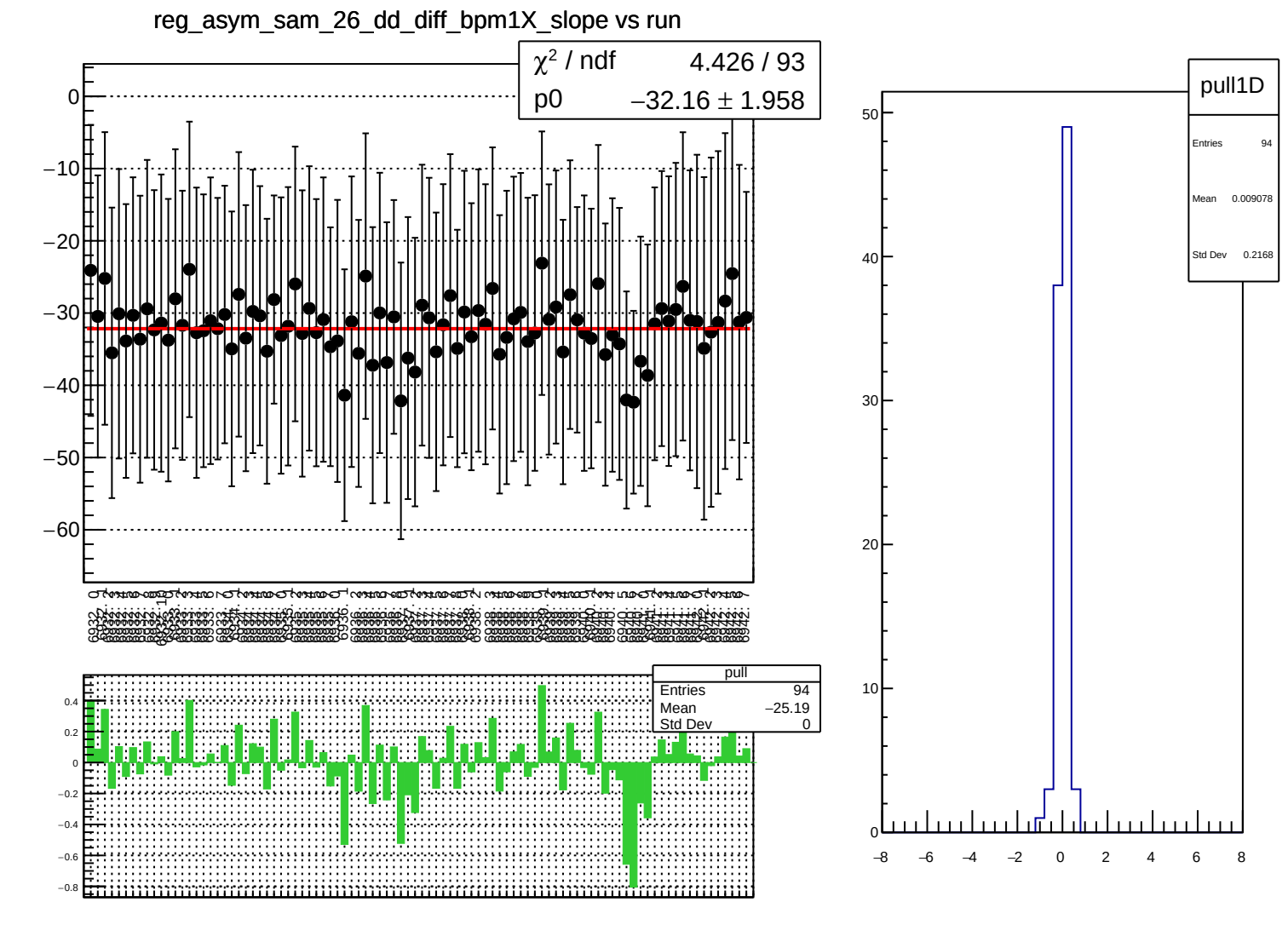

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.291 / 93
p0 3.897 ± 0.557
pull
Entries 94
Mean 55.53
Std Dev 29.37
pull1D
Entries 94
Mean −0.01601
Std Dev 0.2367

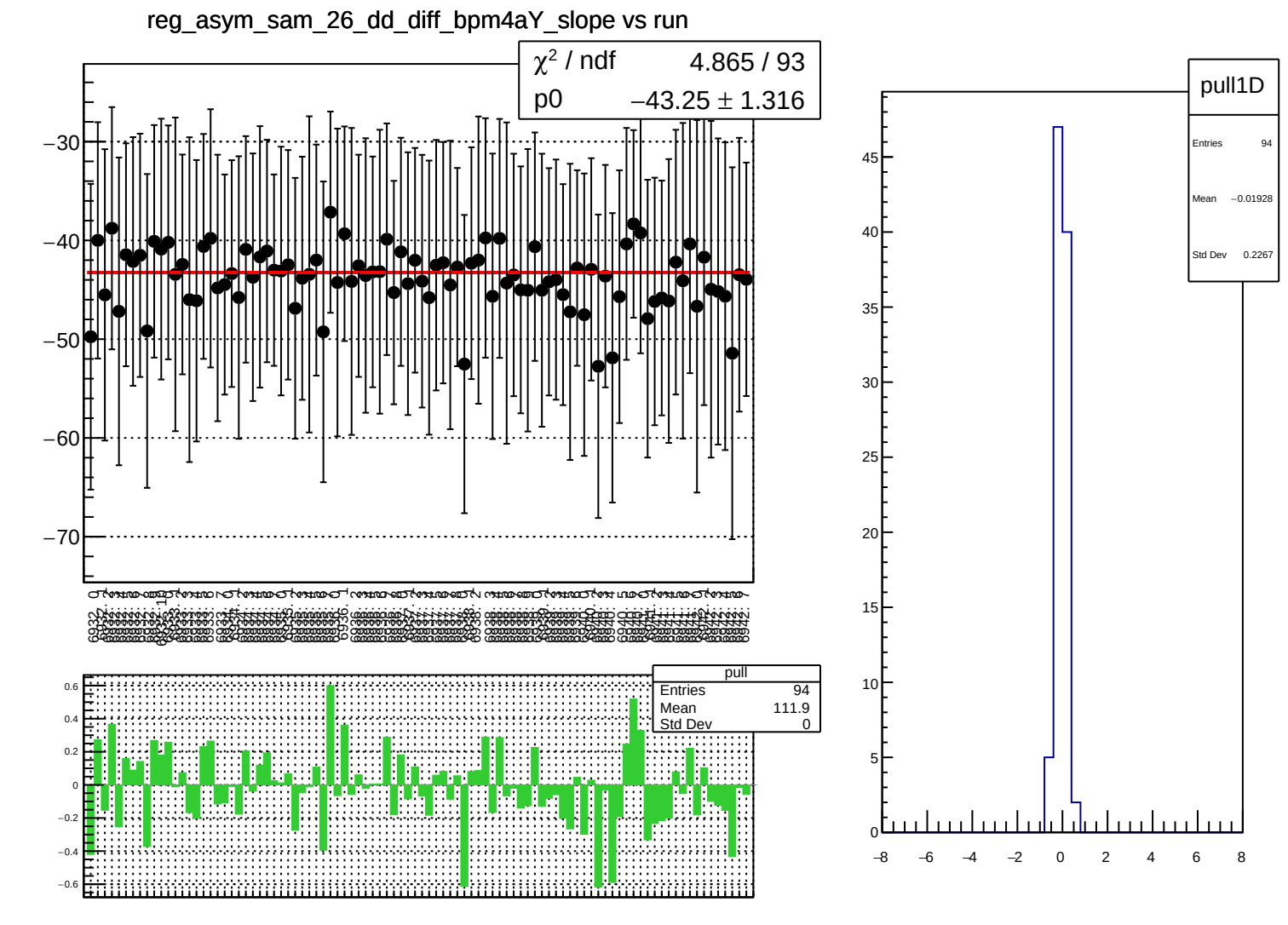

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.79 / 93
p0 −52.54 ± 0.7713
pull
Entries 94
Mean 7.91
Std Dev 37.94
pull1D
Entries 94
Mean −0.03078
Std Dev 0.4693

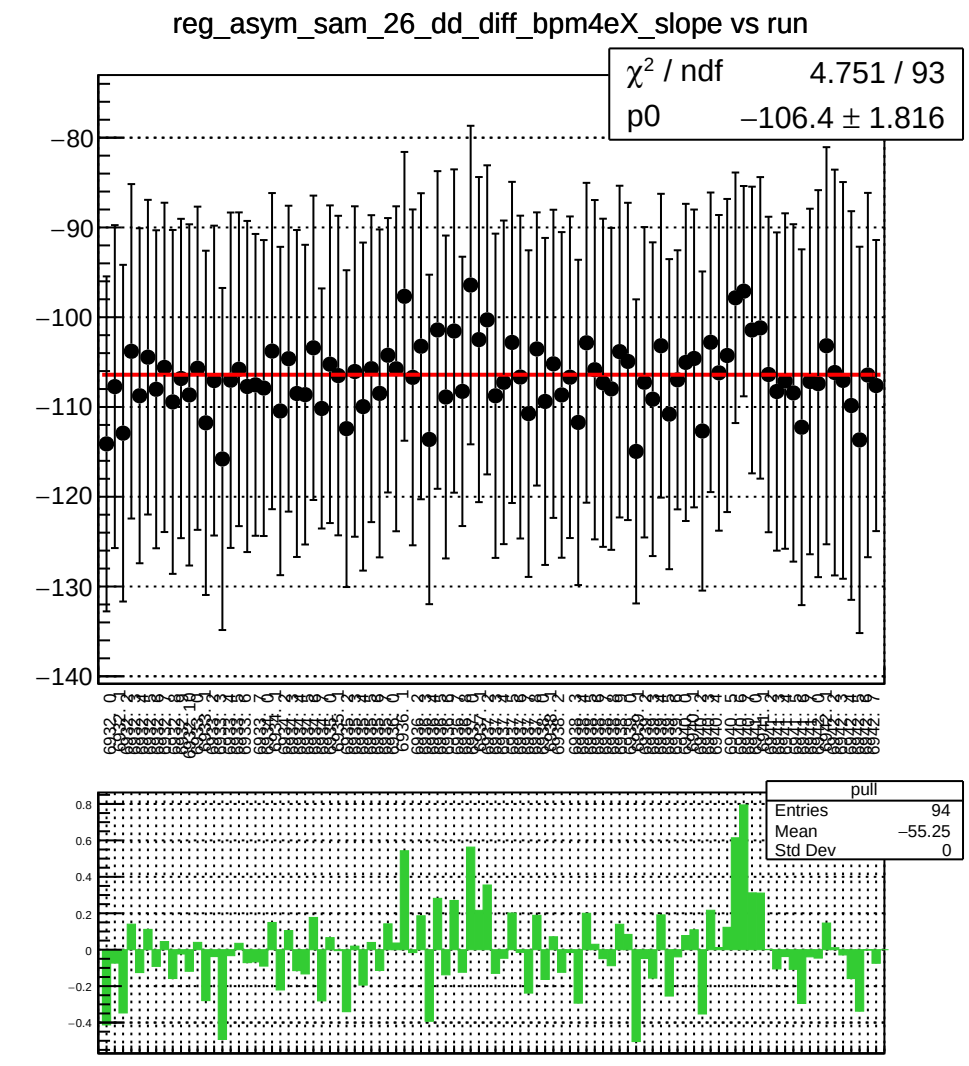

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.598 / 93
p0 −39.66 ± 0.6441
pull
Entries 94
Mean −70.35
Std Dev 0
pull1D
Entries 94
Mean −0.003688
Std Dev 0.2843

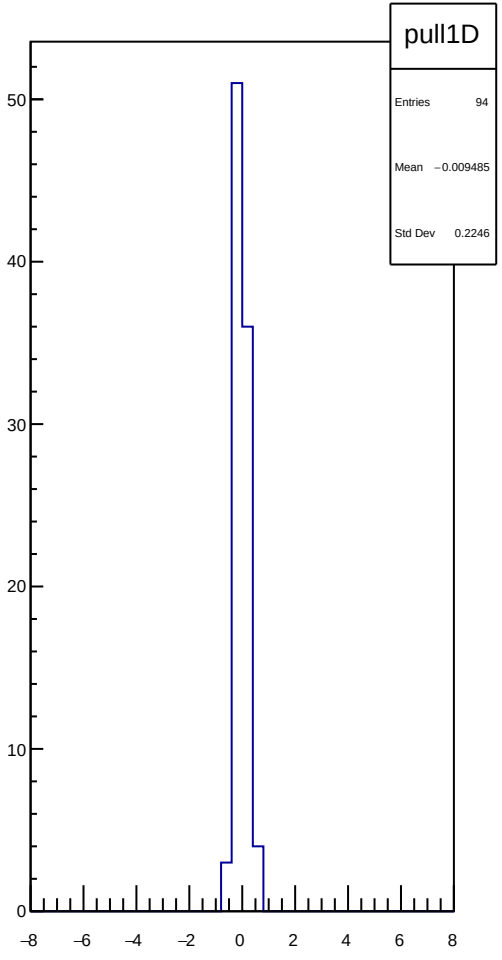

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 5.839 / 93
p0 0.7538 ± 0.02621
pull
Entries 94
Mean 142.9
Std Dev 108.8

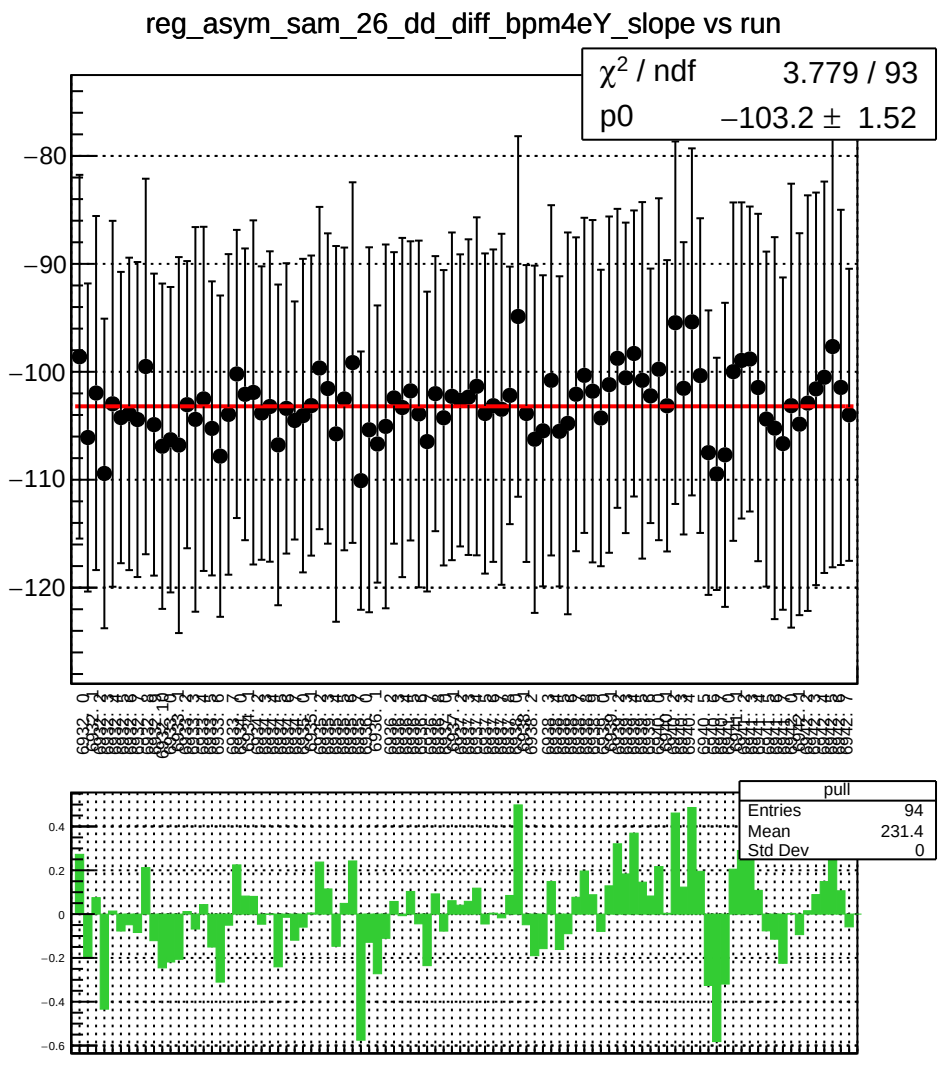

pull1D
Entries 94
Mean −0.002861
Std Dev 0.2492

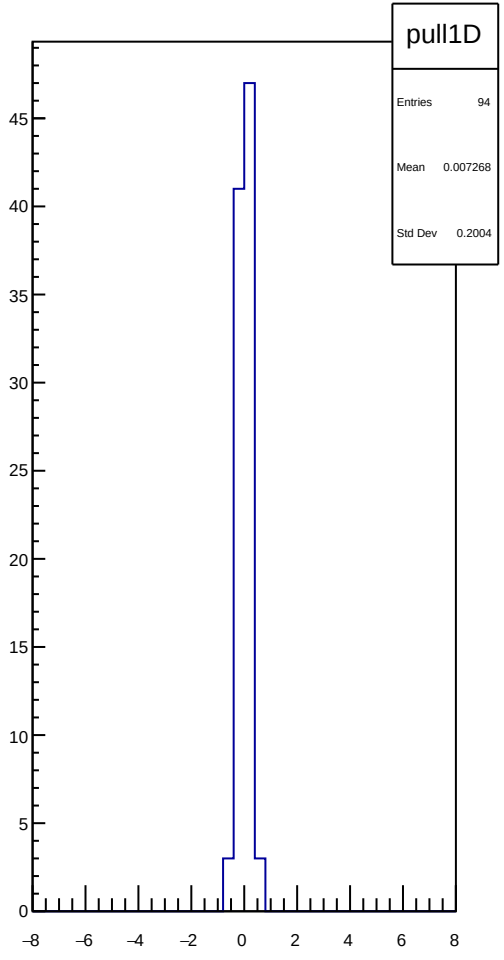

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.426 / 93
p0 −32.16 ± 1.958
pull
Entries 94
Mean −25.19
Std Dev 0
pull1D
Entries 94
Mean 0.009078
Std Dev 0.2168

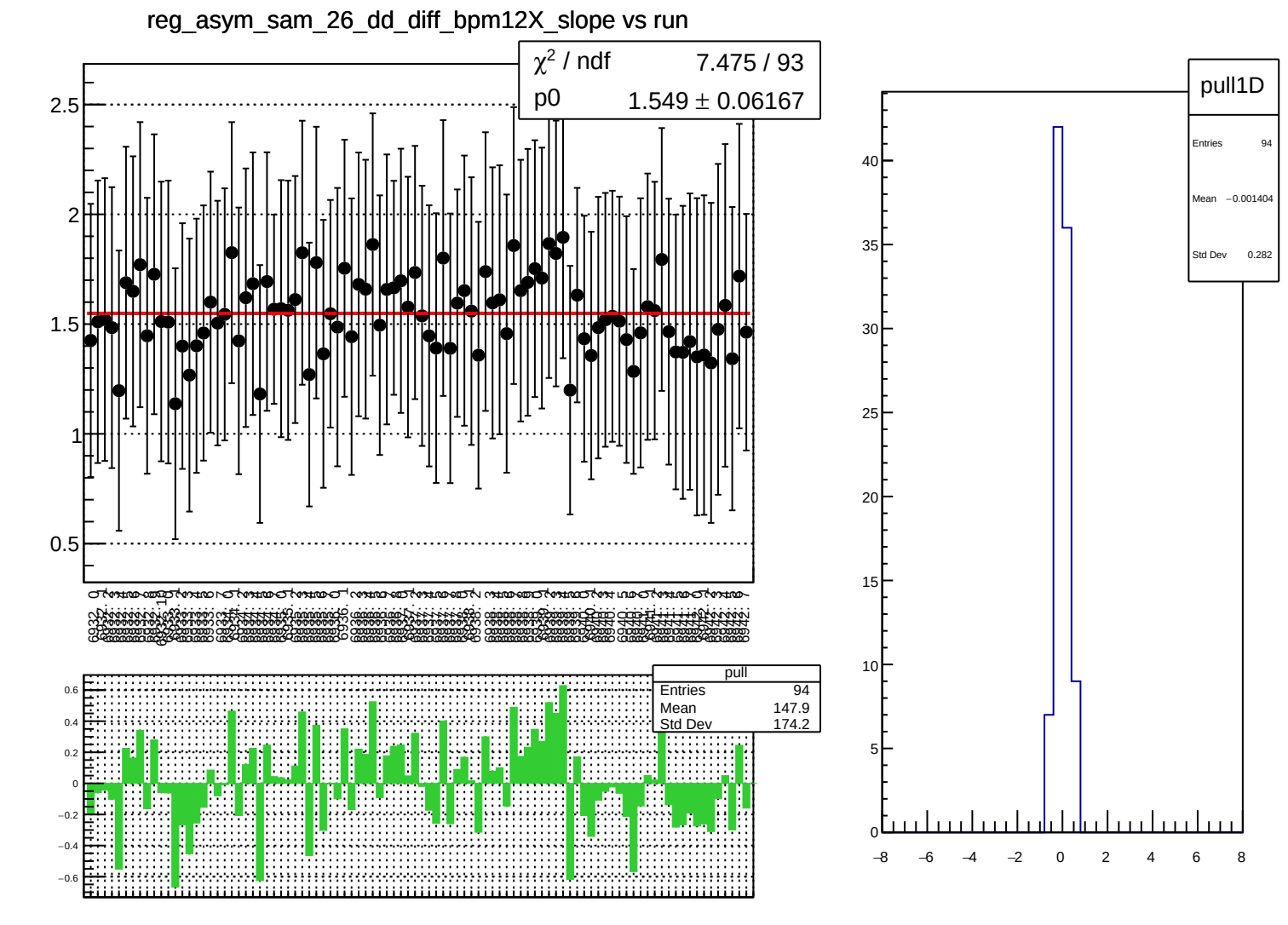

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.865 / 93
p0 −43.25 ± 1.316
−30
−40
−50
−60
−70
pull
Entries 94
Mean 111.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.01928
Std Dev 0.2267
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

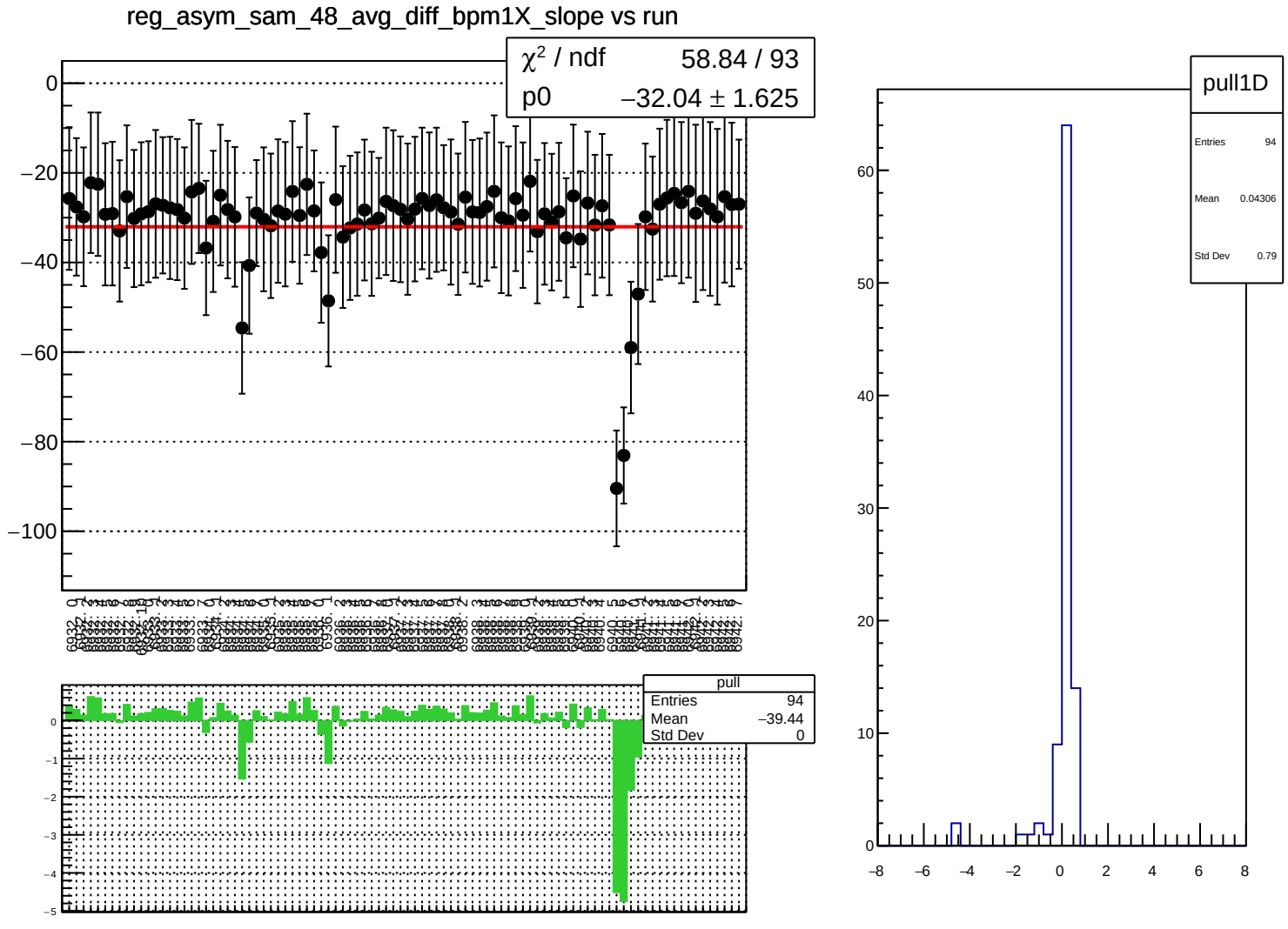

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.751 / 93
p0 −106.4 ± 1.816
pull
Entries 94
Mean −55.25
Std Dev 0

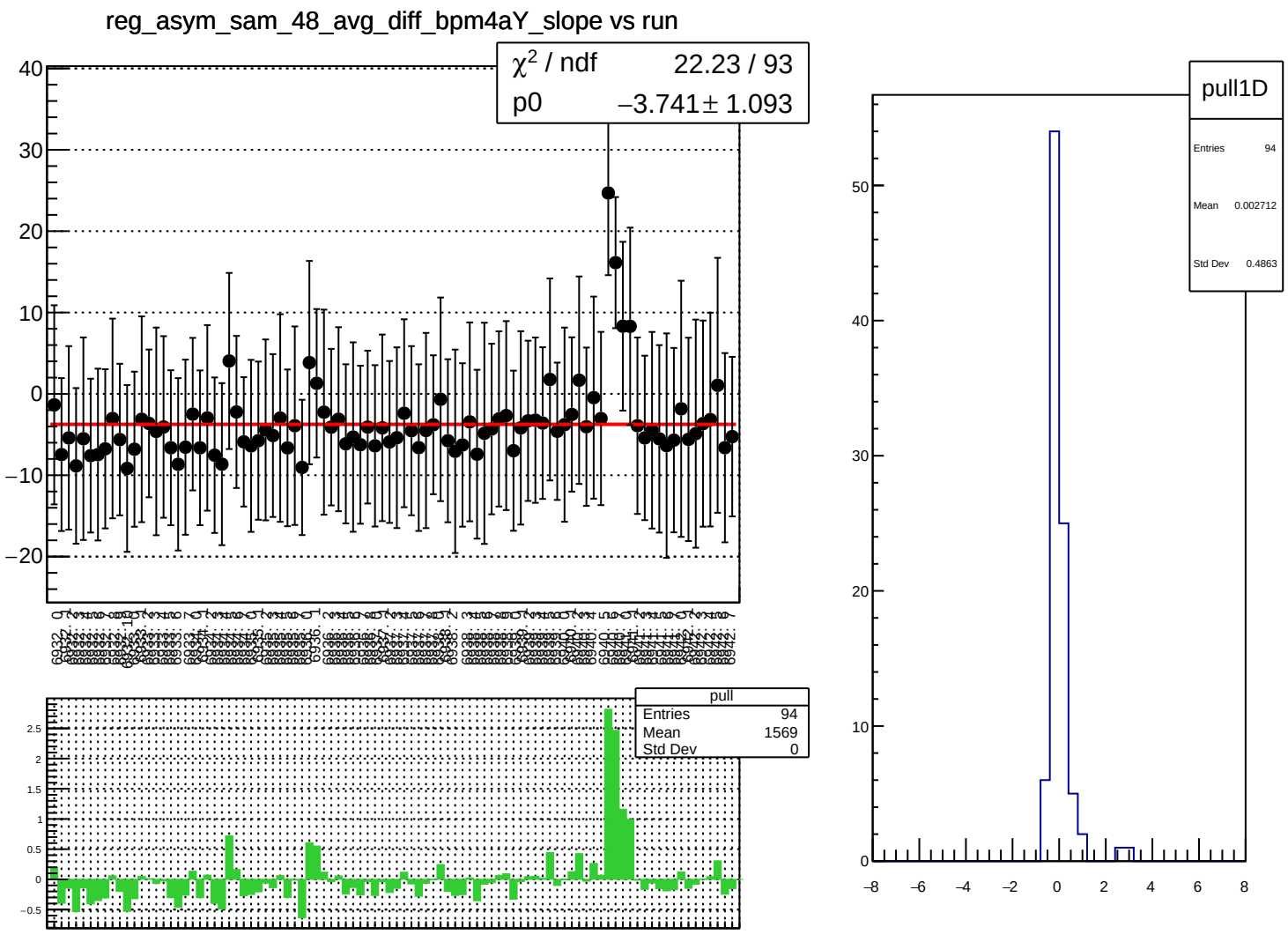

pull1D
Entries 94
Mean −0.009485
Std Dev 0.2246

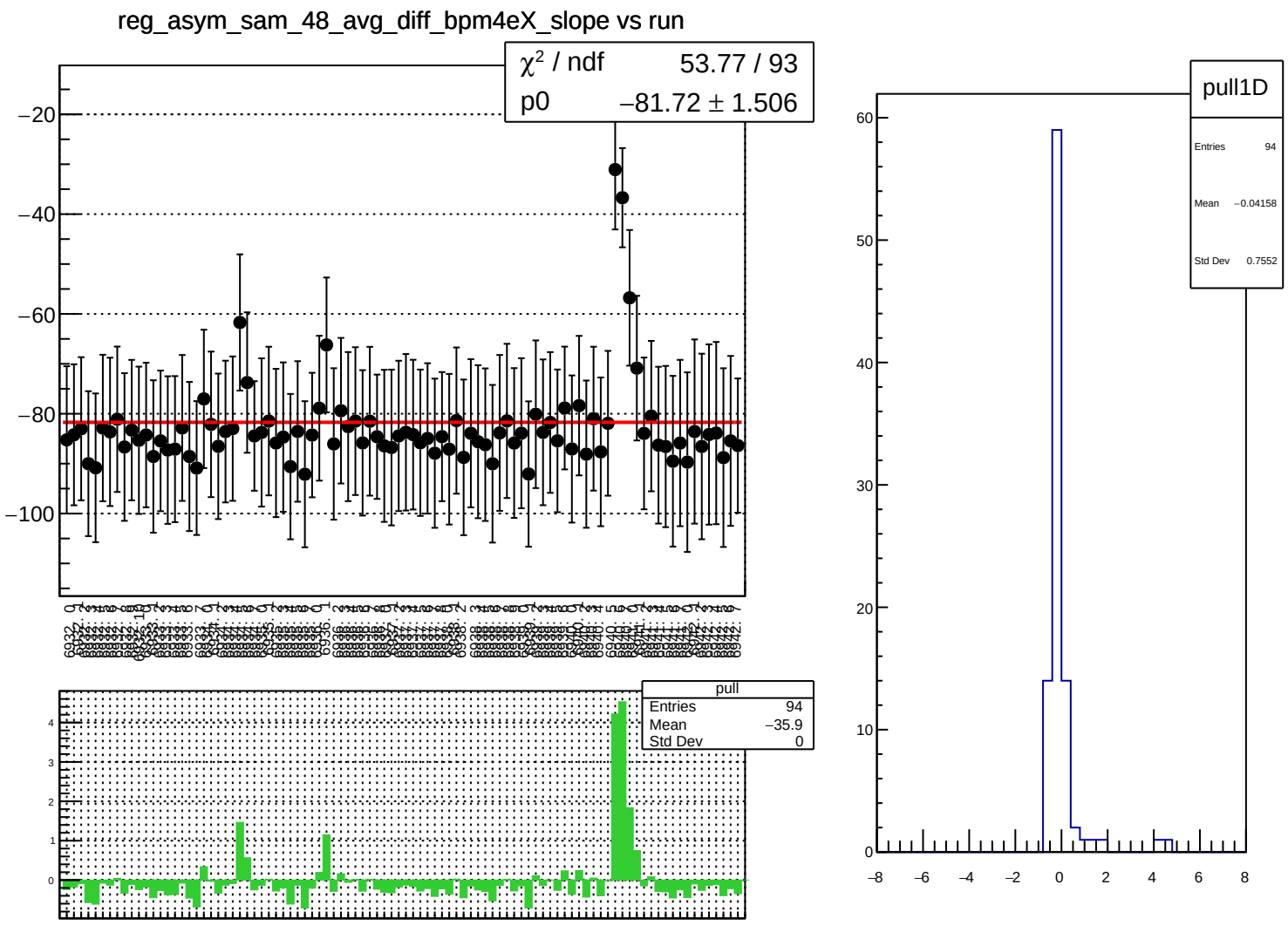

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.779 / 93
p0 −103.2 ± 1.52
−80
−90
−100
−110
−120
pull
Entries 94
Mean 231.4
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

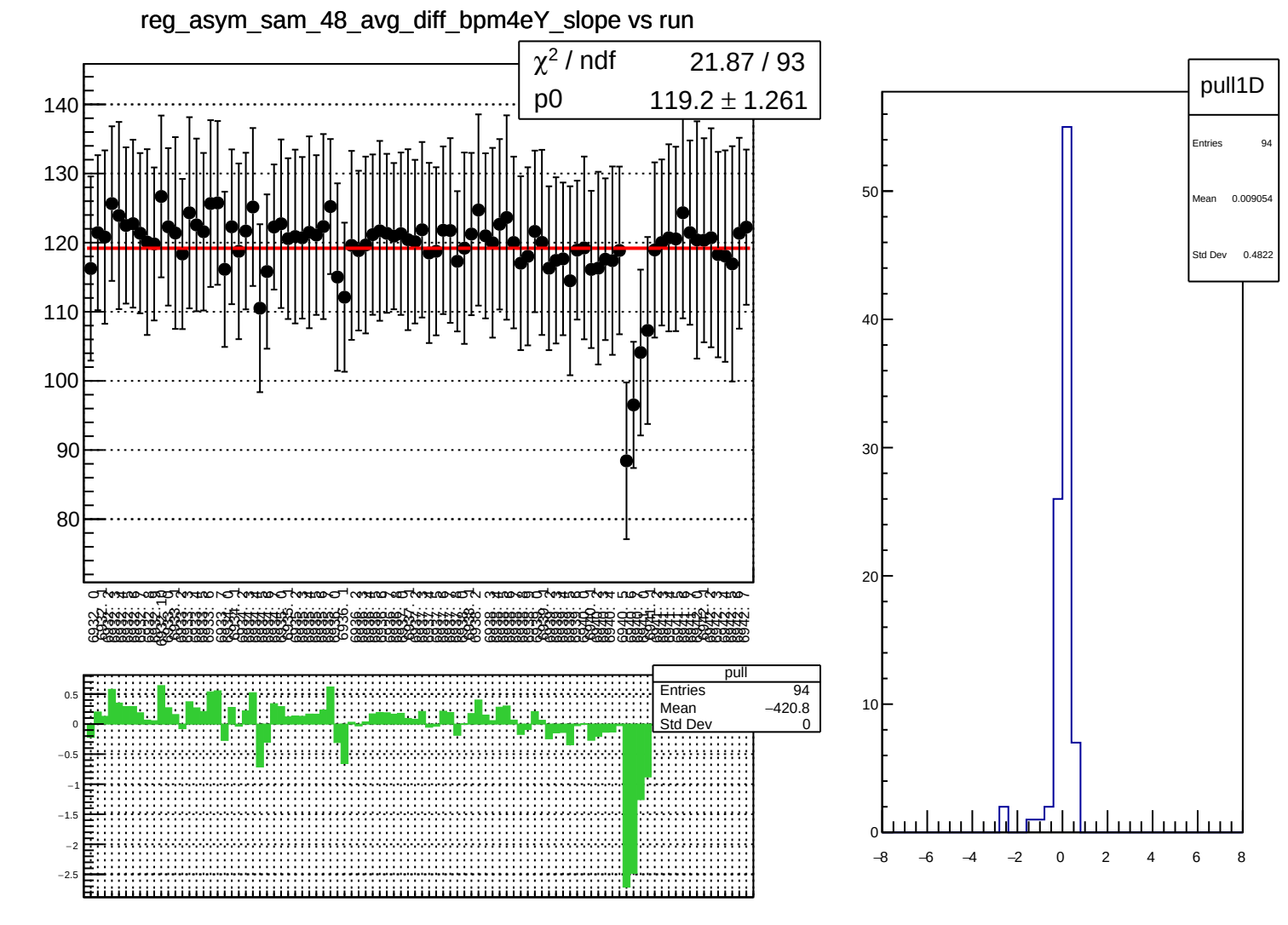

pull1D
Entries 94
Mean 0.007268
Std Dev 0.2004
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

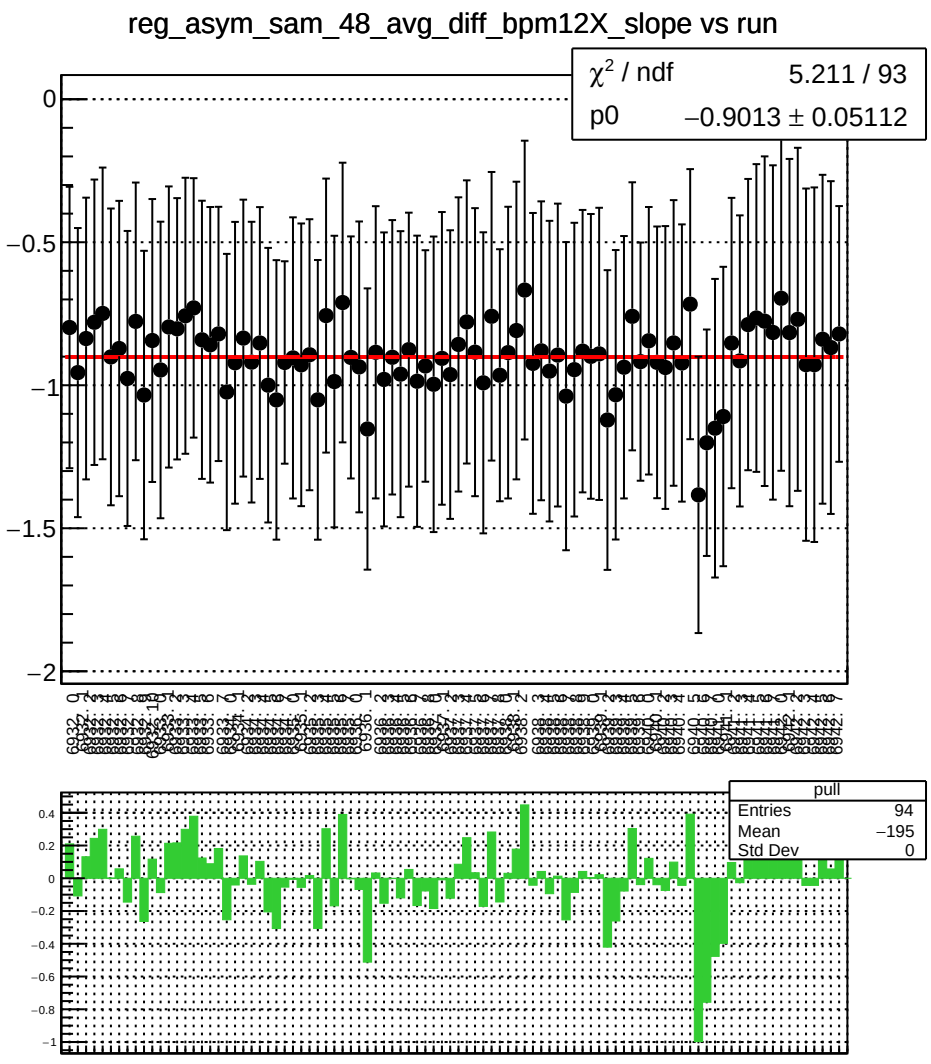

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.475 / 93
p0 1.549 ± 0.06167
pull
Entries 94
Mean 147.9
Std Dev 174.2
pull1D
Entries 94
Mean −0.001404
Std Dev 0.282

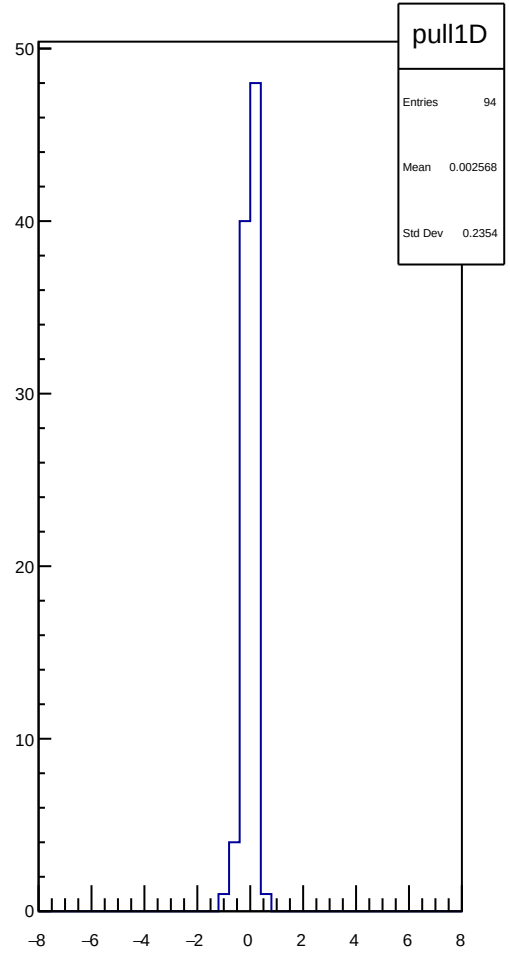

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 58.84 / 93
p0 −32.04 ± 1.625
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean −39.44
Std Dev 0
pull1D
Entries 94
Mean 0.04306
Std Dev 0.79
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

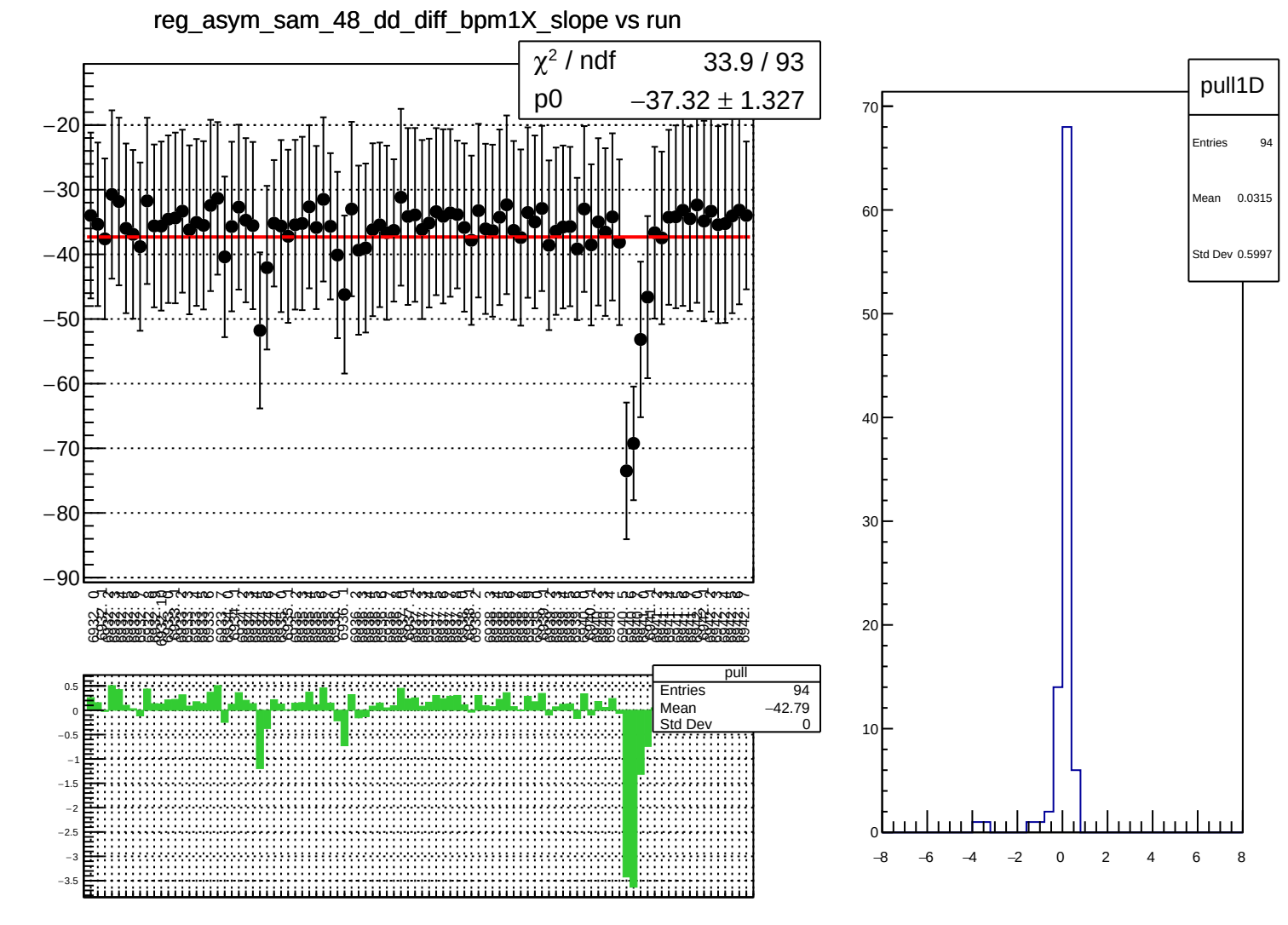

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.23 / 93
p0 −3.741 ± 1.093
pull
Entries 94
Mean 1569
Std Dev 0
pull1D
Entries 94
Mean 0.002712
Std Dev 0.4863

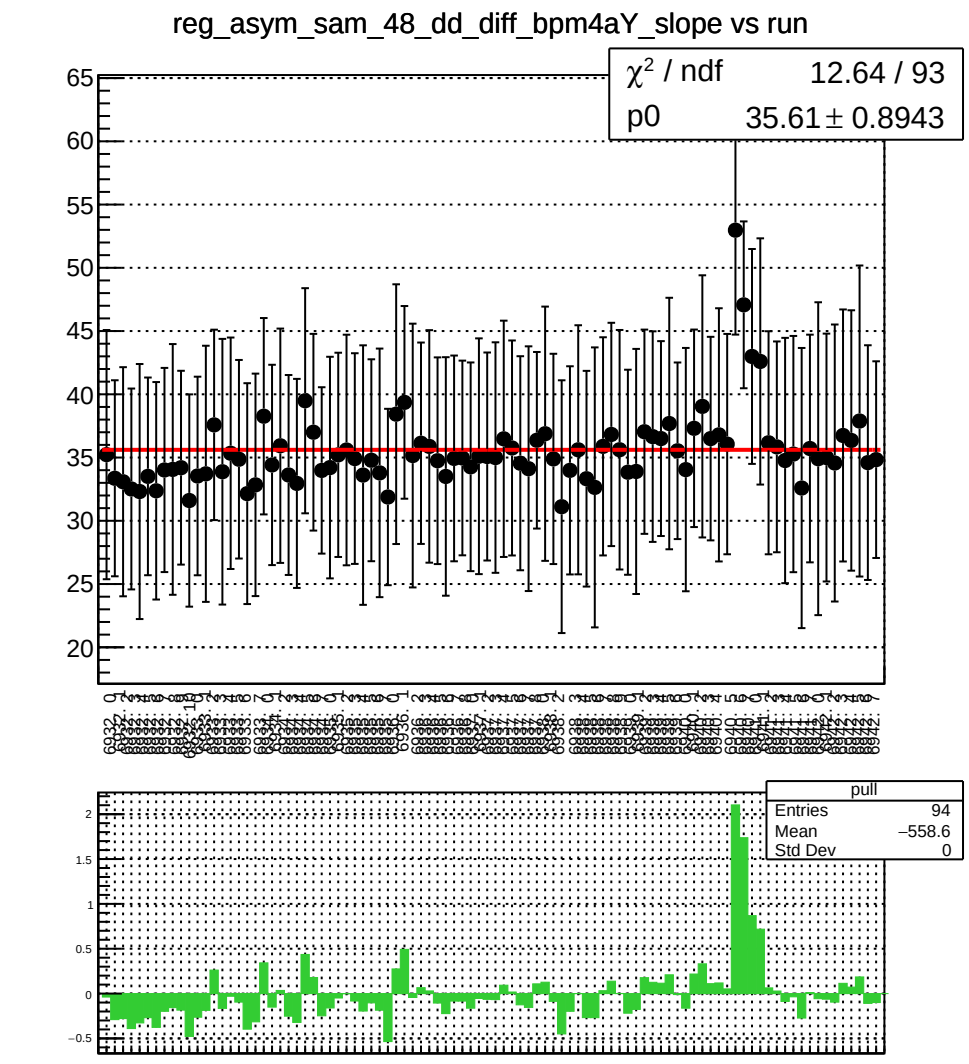

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.77 / 93
p0 −81.72 ± 1.506
−20
−40
−60
−80
−100
pull
Entries 94
Mean −35.9
Std Dev 0
4
3
2
1
0
pull1D
Entries 94
Mean −0.04158
Std Dev 0.7552
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

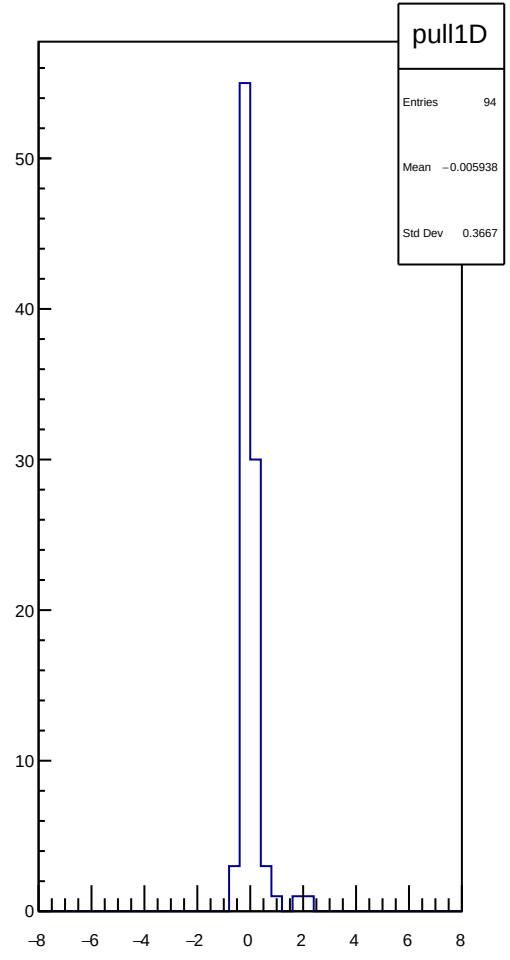

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.87 / 93
p0 119.2 ± 1.261
pull
Entries 94
Mean −420.8
Std Dev 0
pull1D
Entries 94
Mean 0.009054
Std Dev 0.4822

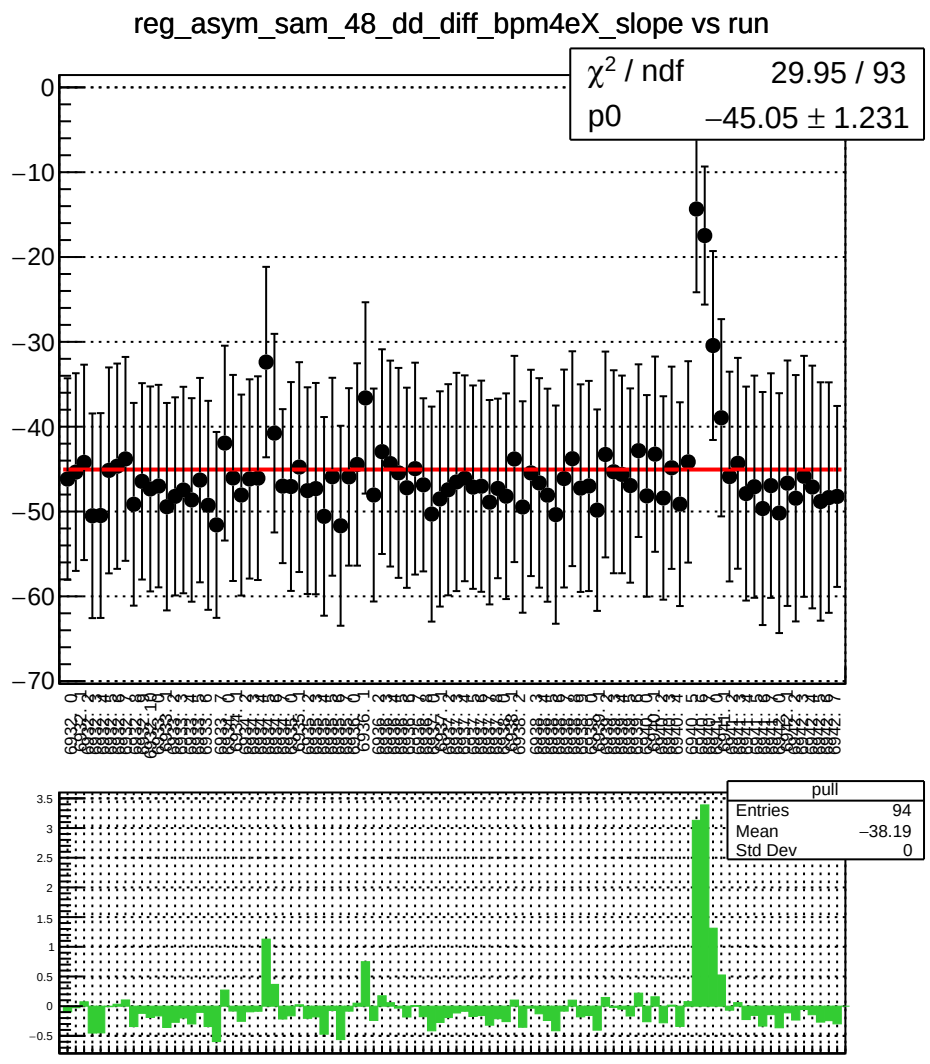

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 5.211 / 93
p0 −0.9013 ± 0.05112
pull
Entries 94
Mean −195
Std Dev 0

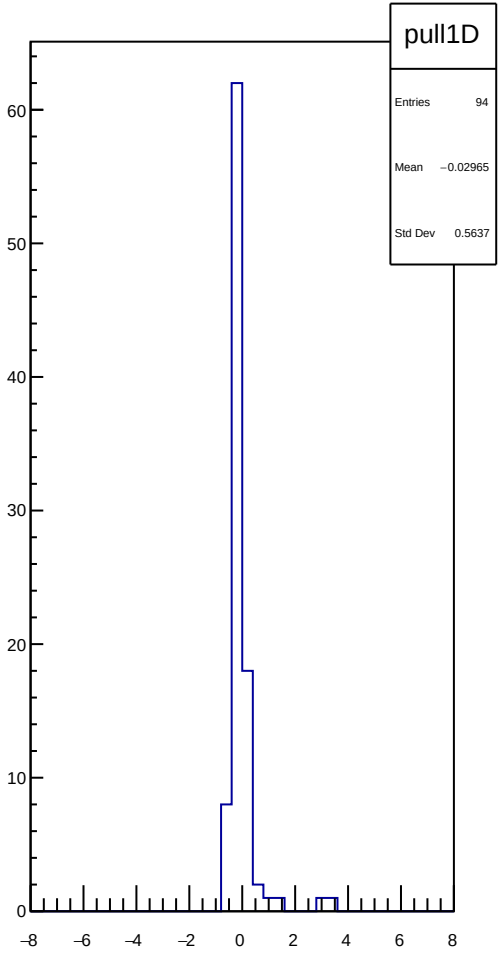

pull1D
Entries 94
Mean 0.002568
Std Dev 0.2354

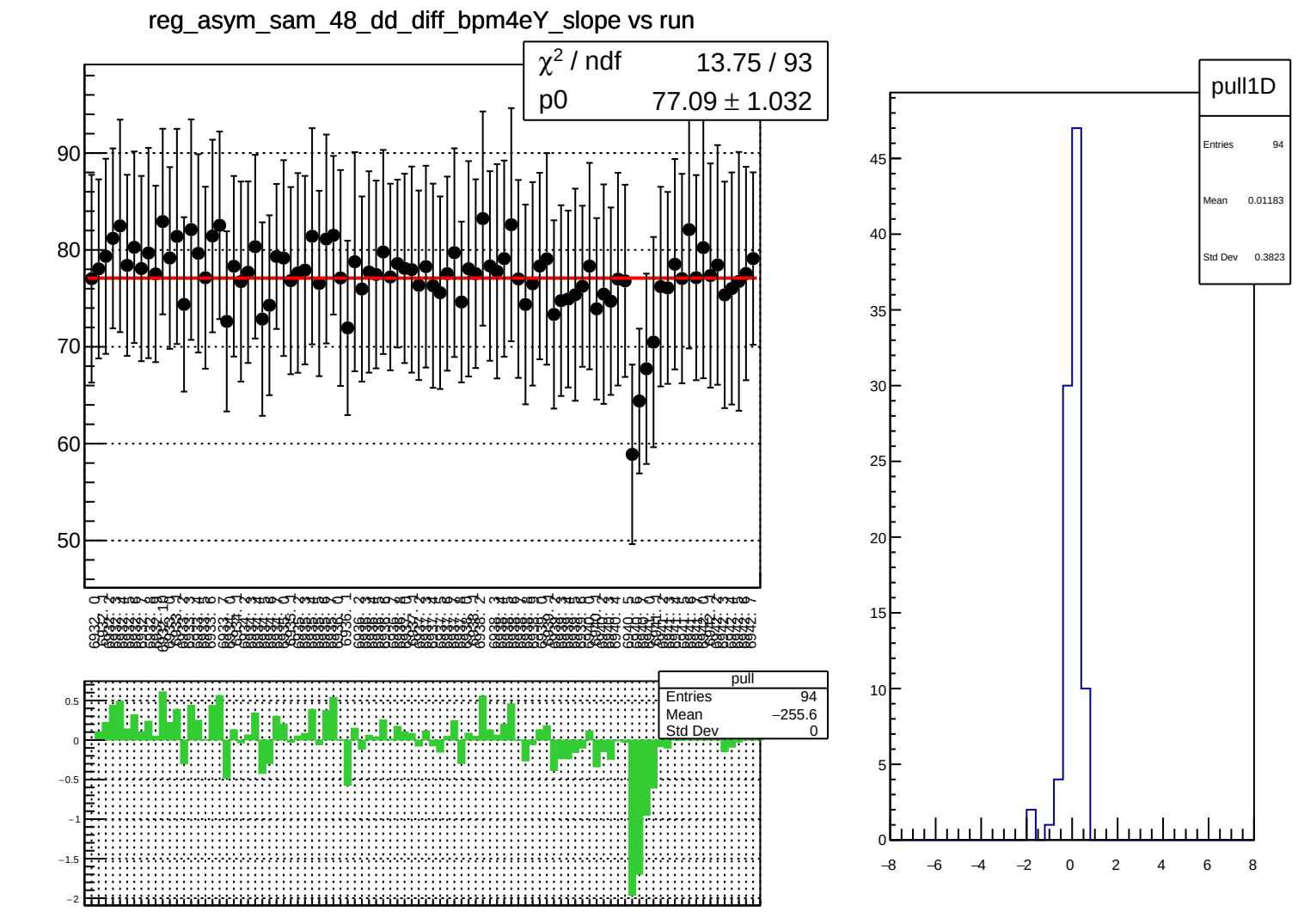

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 33.9 / 93
p0 −37.32 ± 1.327
pull
Entries 94
Mean −42.79
Std Dev 0
pull1D
Entries 94
Mean 0.0315
Std Dev 0.5997

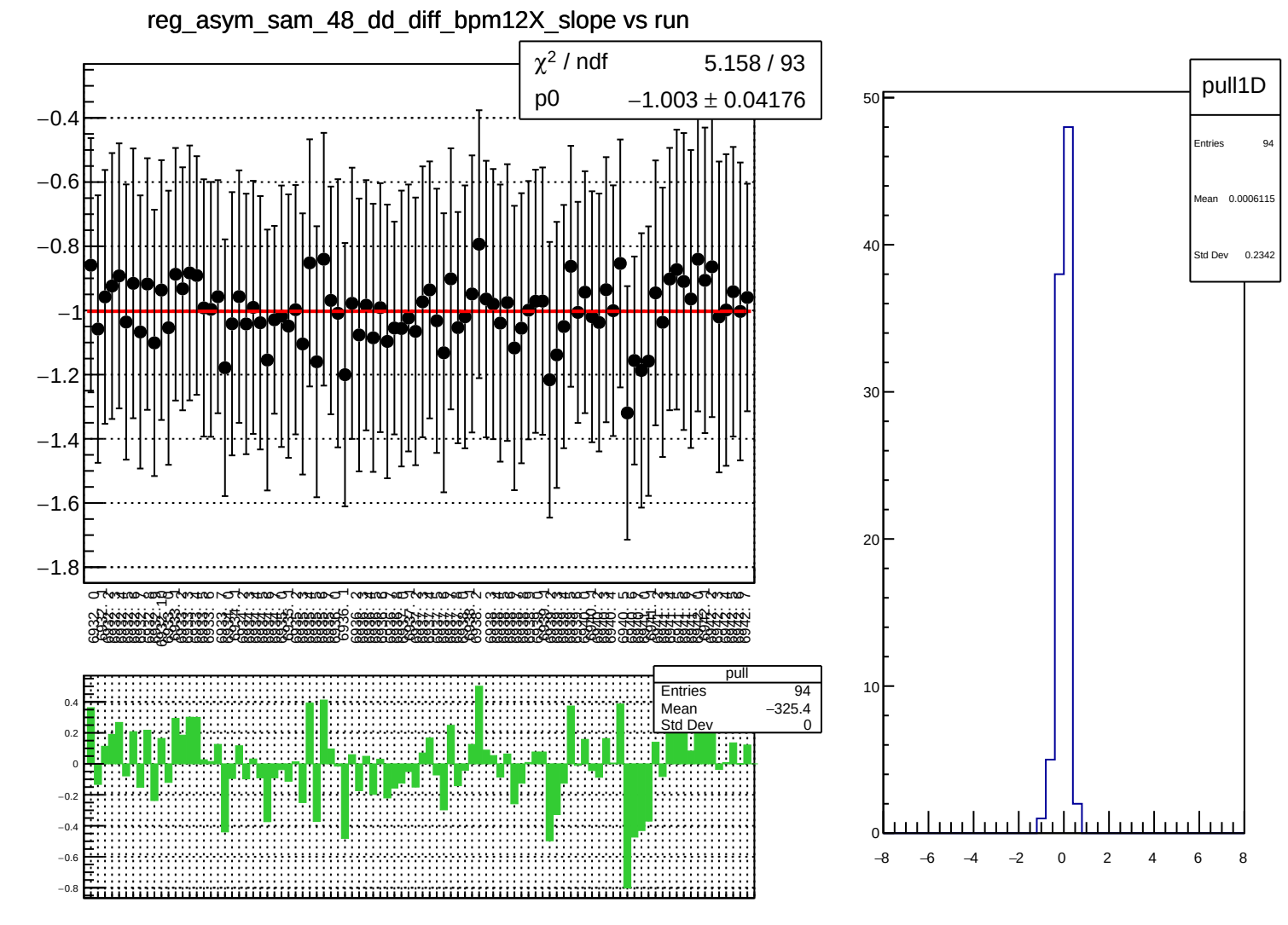

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.64 / 93
p0 35.61 ± 0.8943
pull
Entries 94
Mean −558.6
Std Dev 0

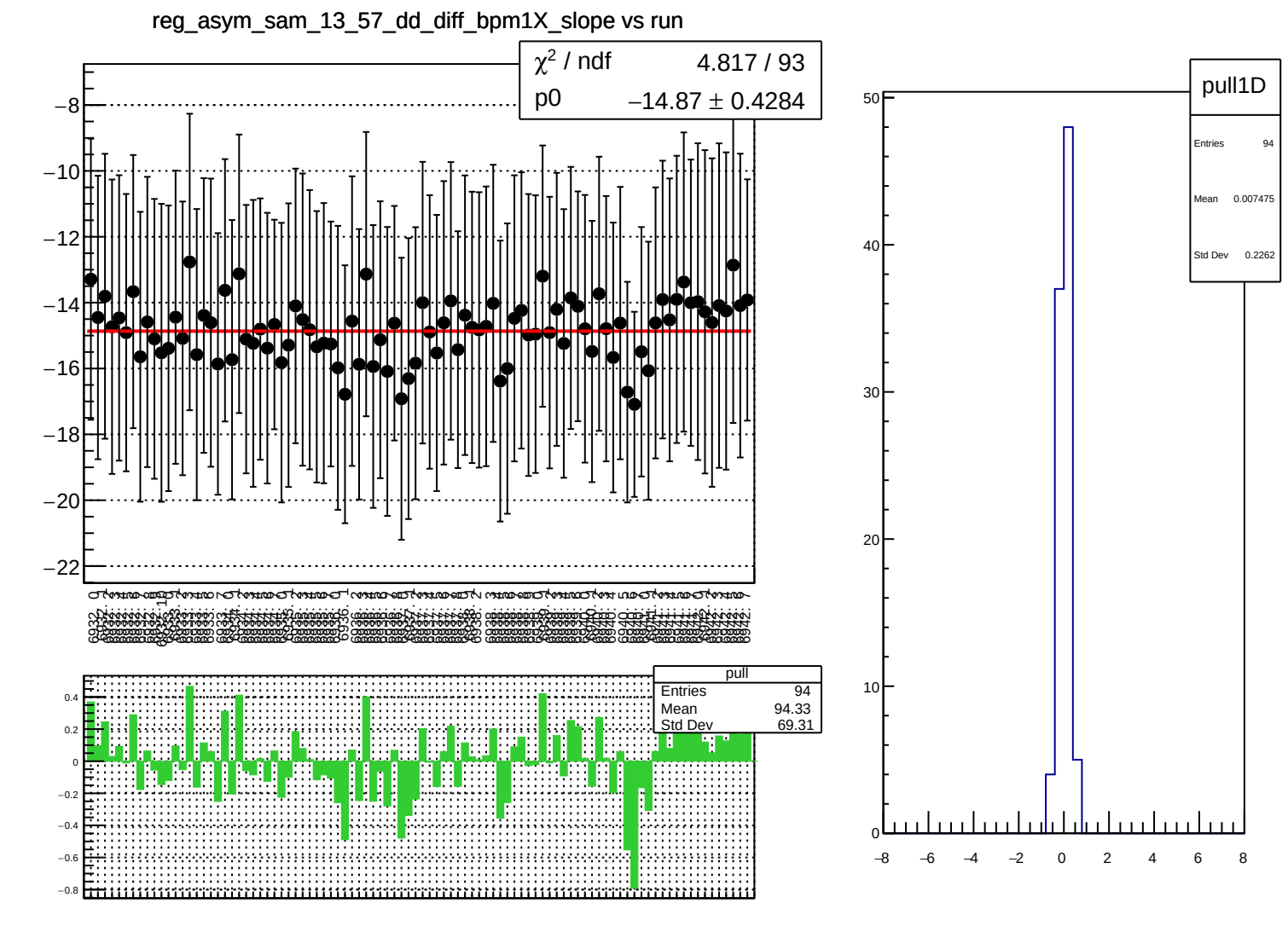

pull1D
Entries 94
Mean −0.005938
Std Dev 0.3667

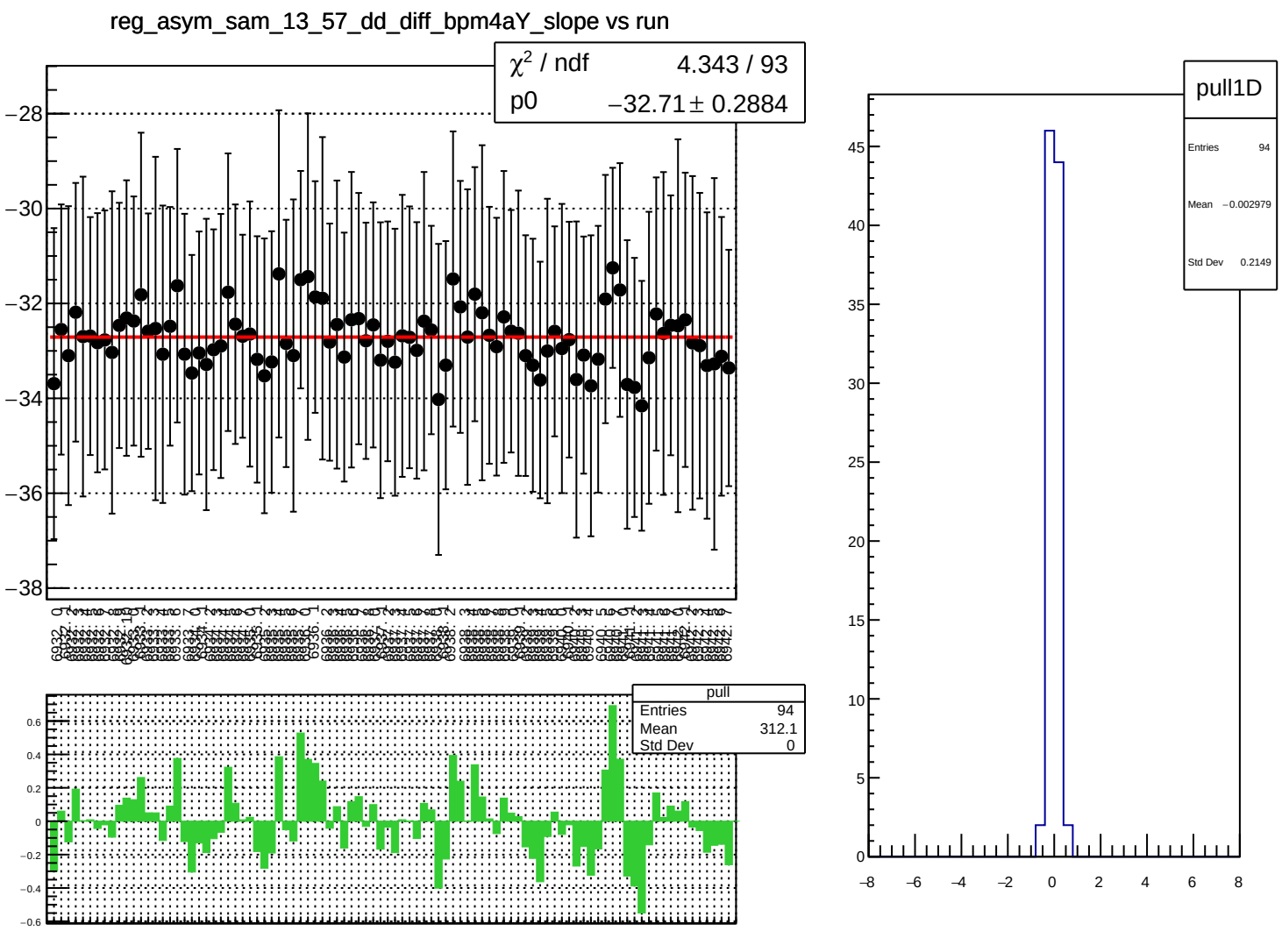

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.95 / 93
p0 −45.05 ± 1.231
pull
Entries 94
Mean −38.19
Std Dev 0

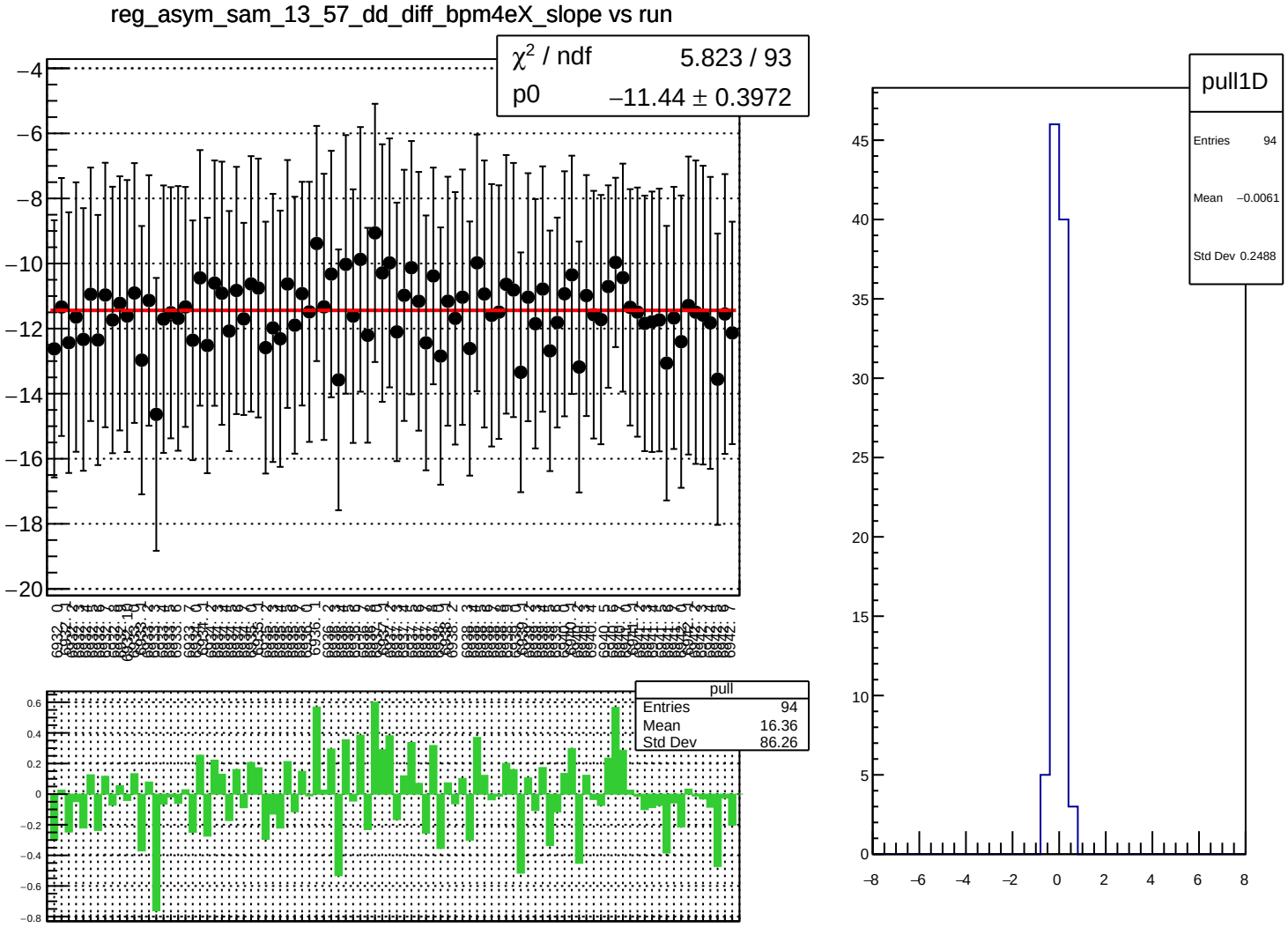

pull1D
Entries 94
Mean −0.02965
Std Dev 0.5637

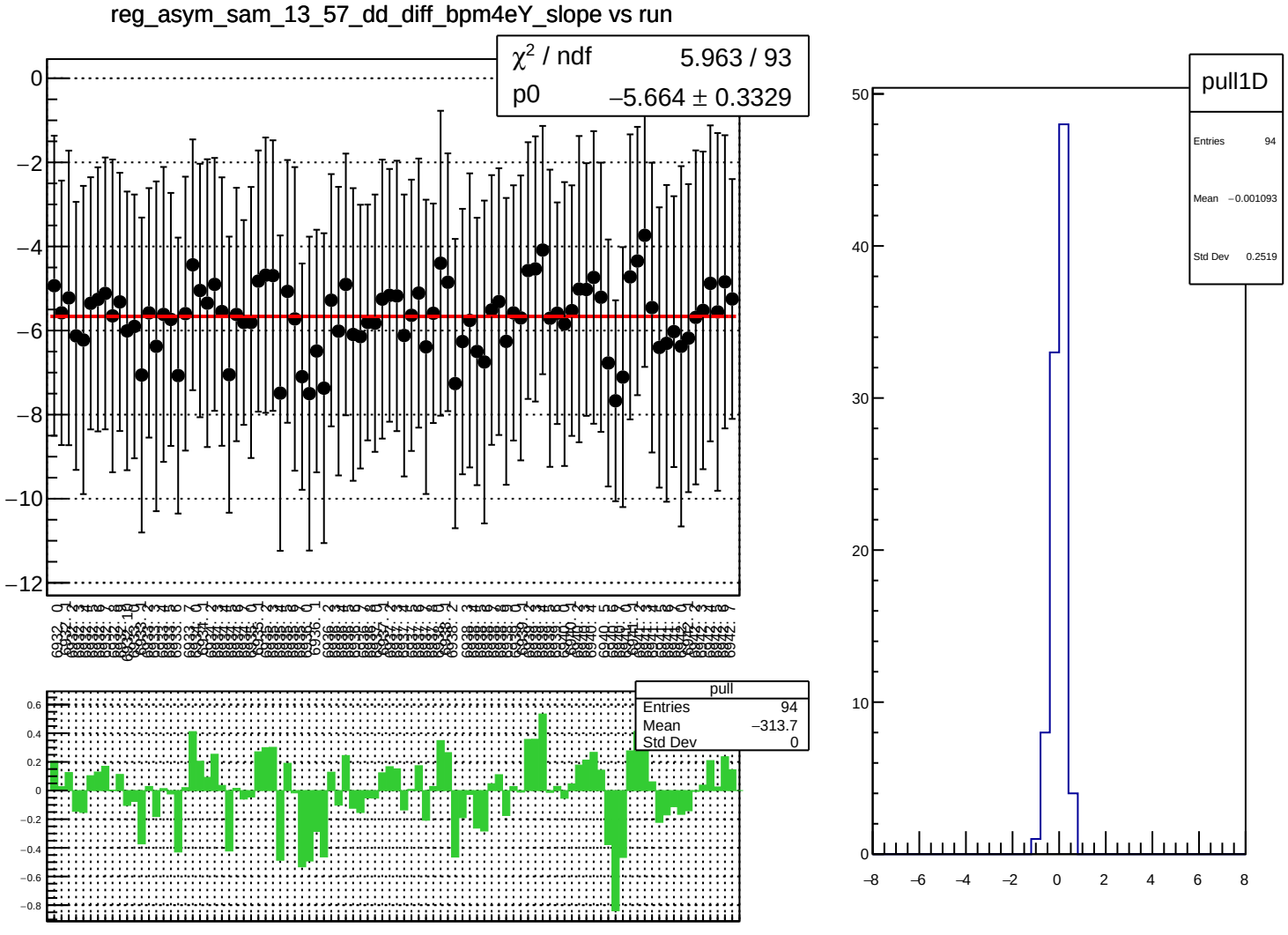

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.75 / 93
p0 77.09 ± 1.032
pull
Entries 94
Mean −255.6
Std Dev 0
pull1D
Entries 94
Mean 0.01183
Std Dev 0.3823

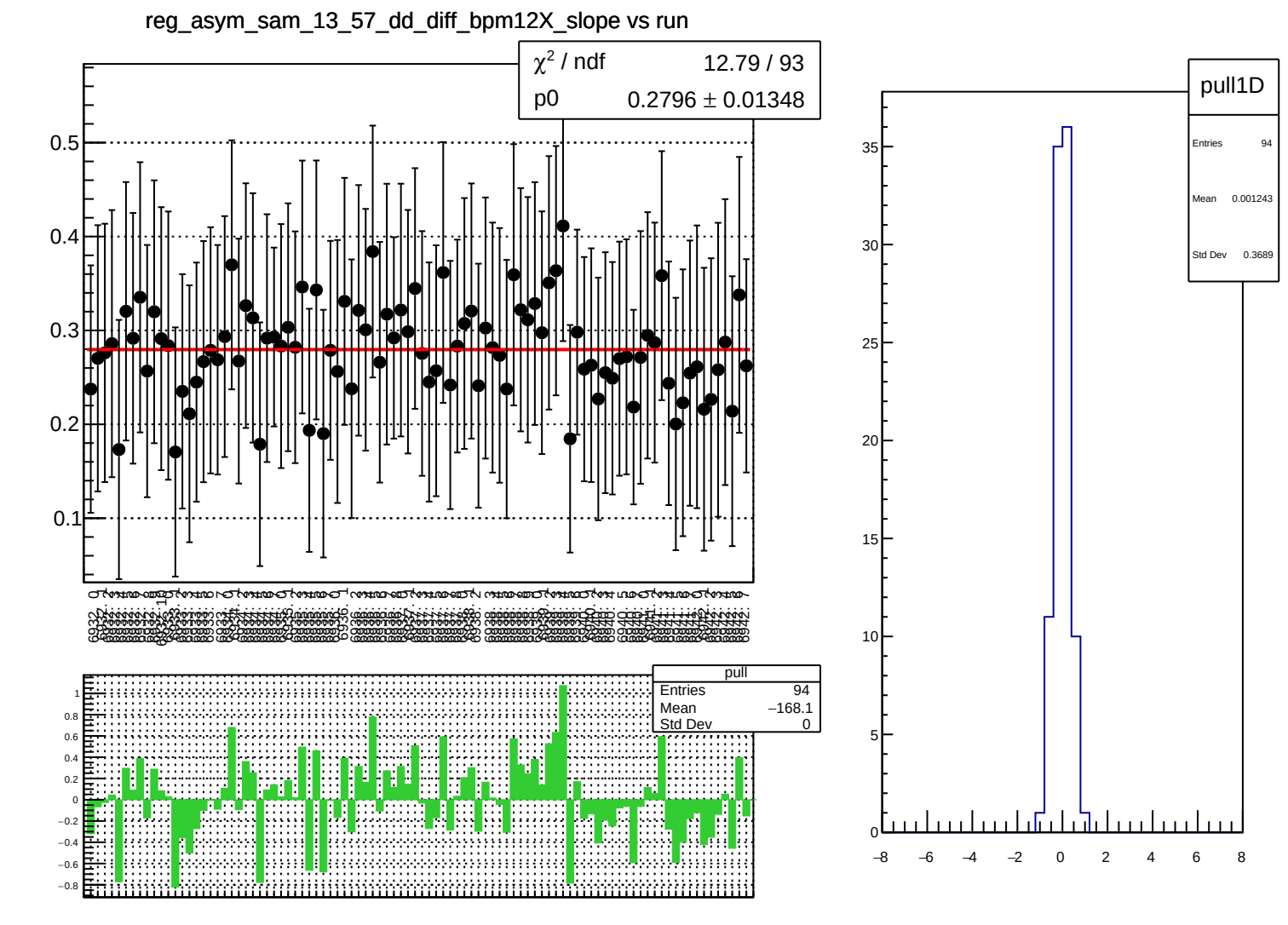

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 5.158 / 93
p0 −1.003 ± 0.04176
pull
Entries 94
Mean −325.4
Std Dev 0
pull1D
Entries 94
Mean 0.0006115
Std Dev 0.2342

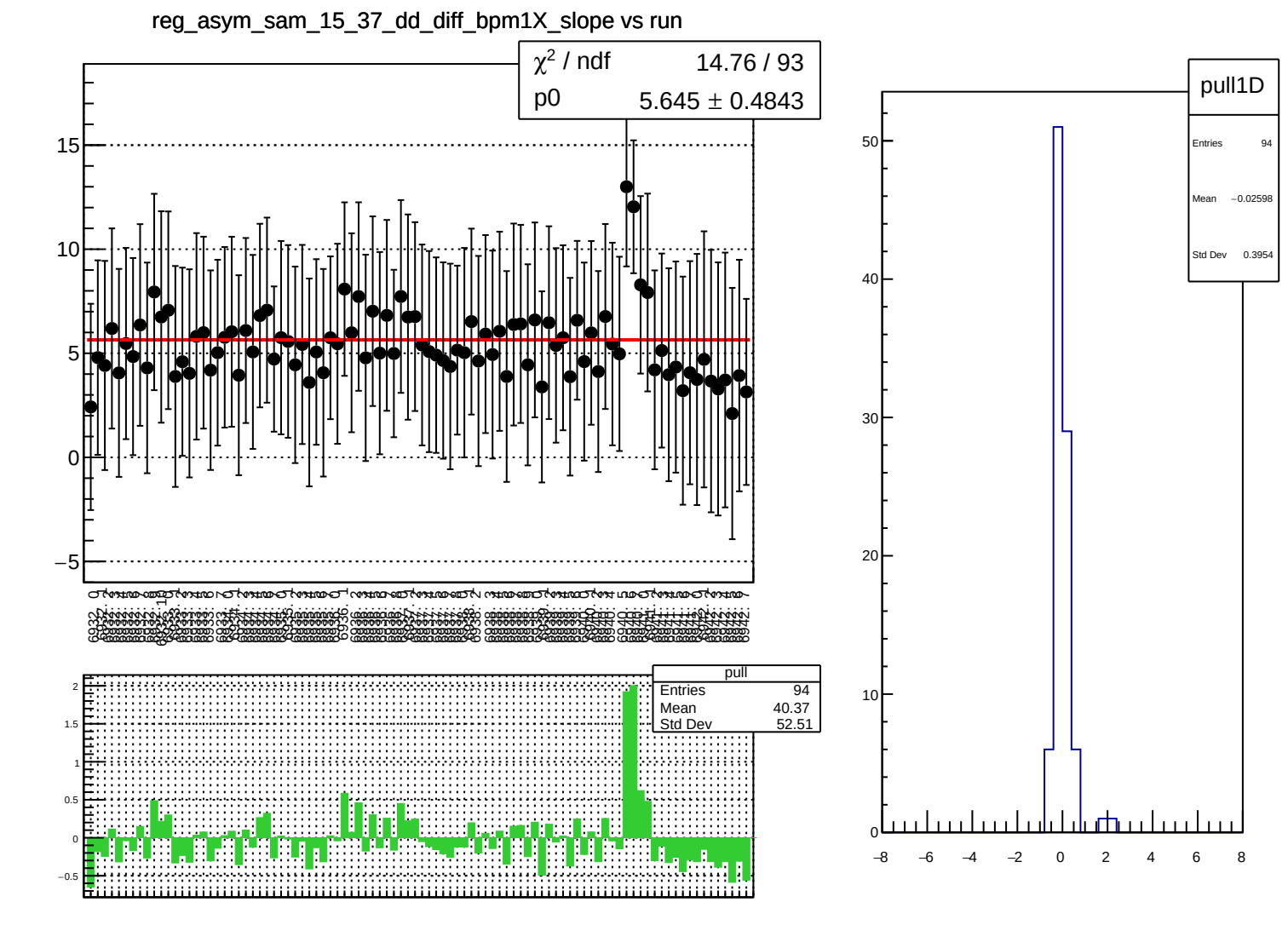

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 4.817 / 93
p0 −14.87 ± 0.4284
pull
Entries 94
Mean 94.33
Std Dev 69.31
pull1D
Entries 94
Mean 0.007475
Std Dev 0.2262

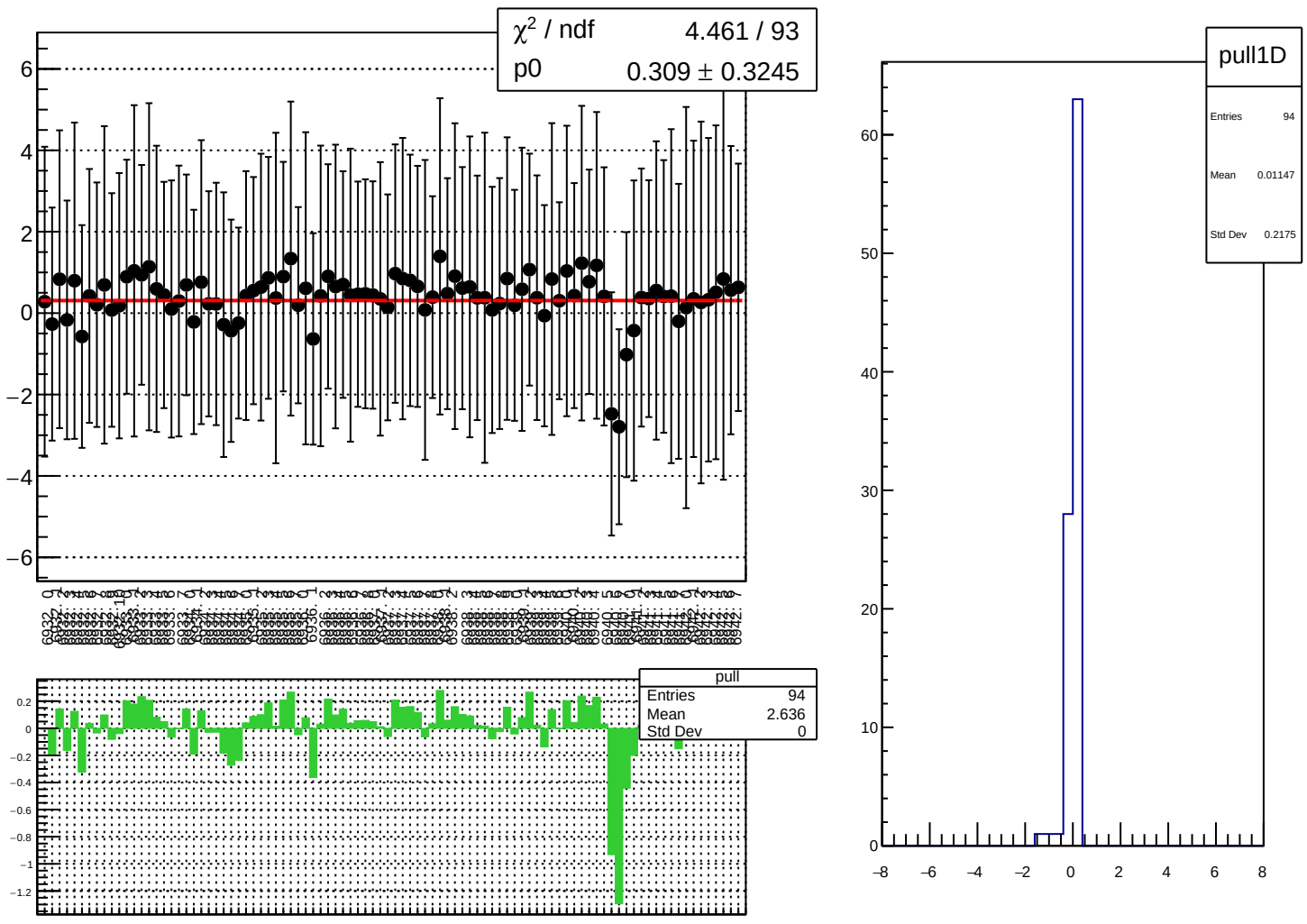

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.343 / 93
p0 −32.71 ± 0.2884
−28
−30
−32
−34
−36
−38
pull
Entries 94
Mean 312.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.002979
Std Dev 0.2149
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

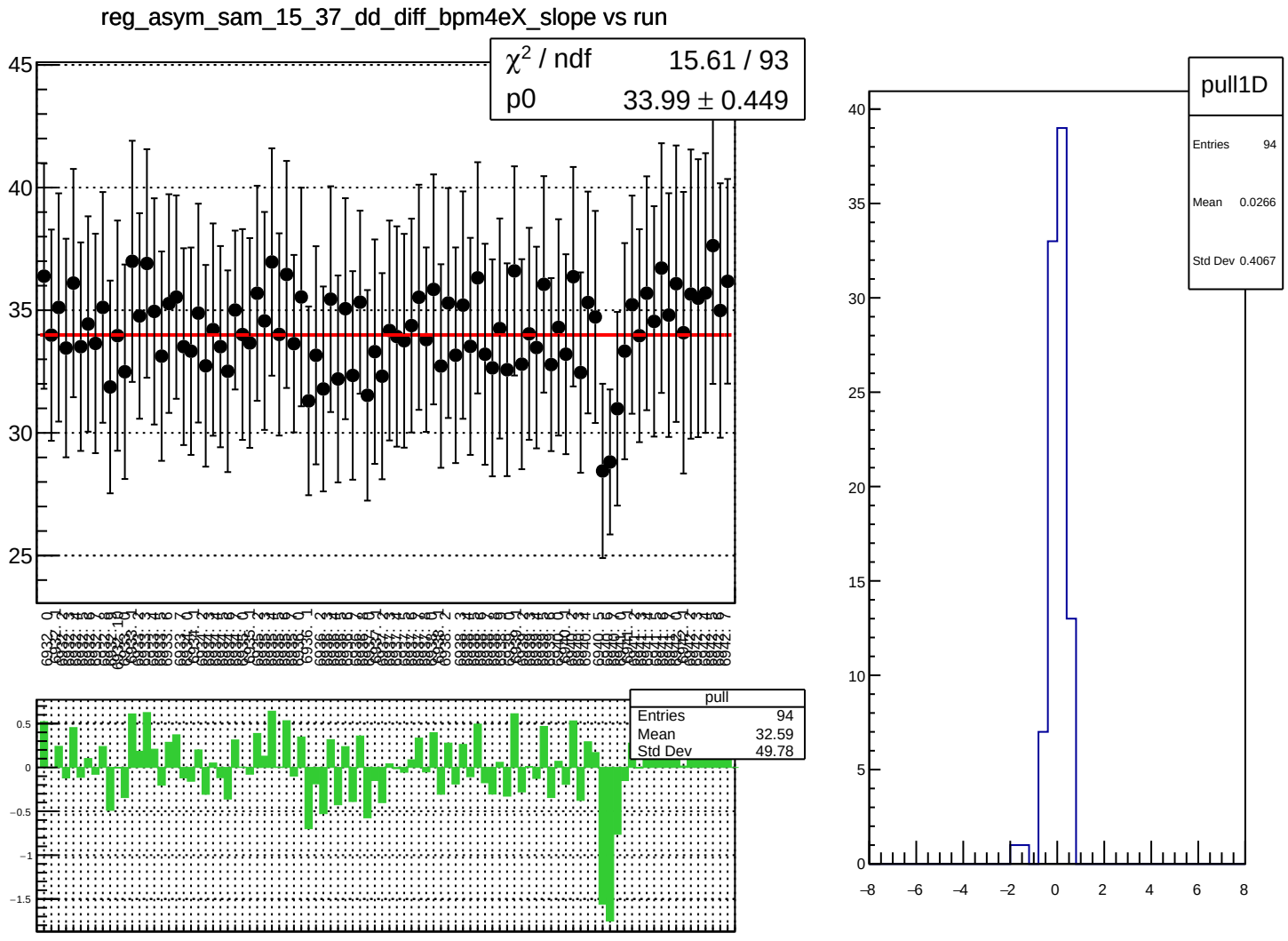

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.823 / 93
p0 −11.44 ± 0.3972
pull
Entries 94
Mean 16.36
Std Dev 86.26
pull1D
Entries 94
Mean −0.0061
Std Dev 0.2488

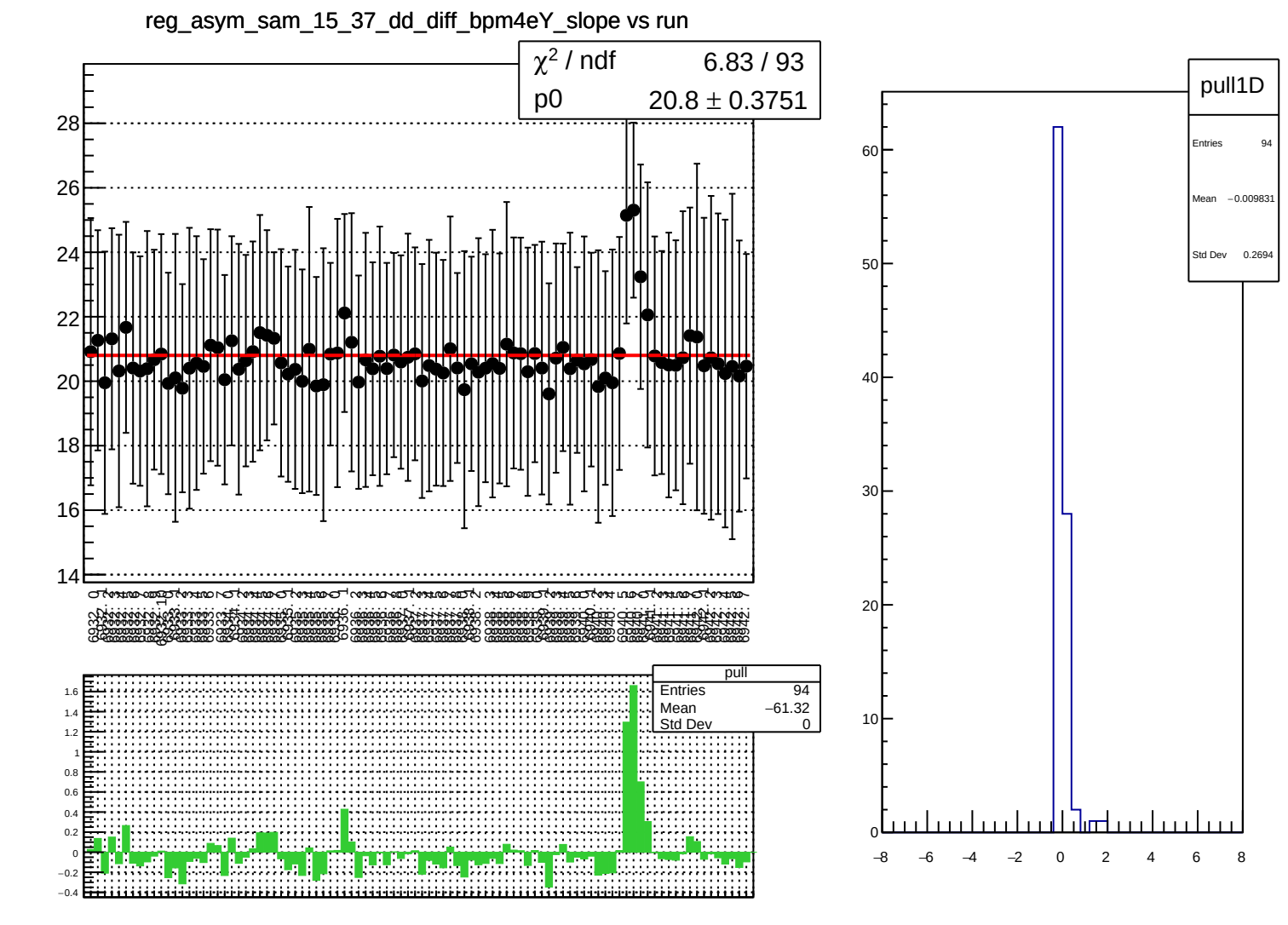

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.963 / 93
p0 −5.664 ± 0.3329
pull
Entries 94
Mean −313.7
Std Dev 0
pull1D
Entries 94
Mean −0.001093
Std Dev 0.2519

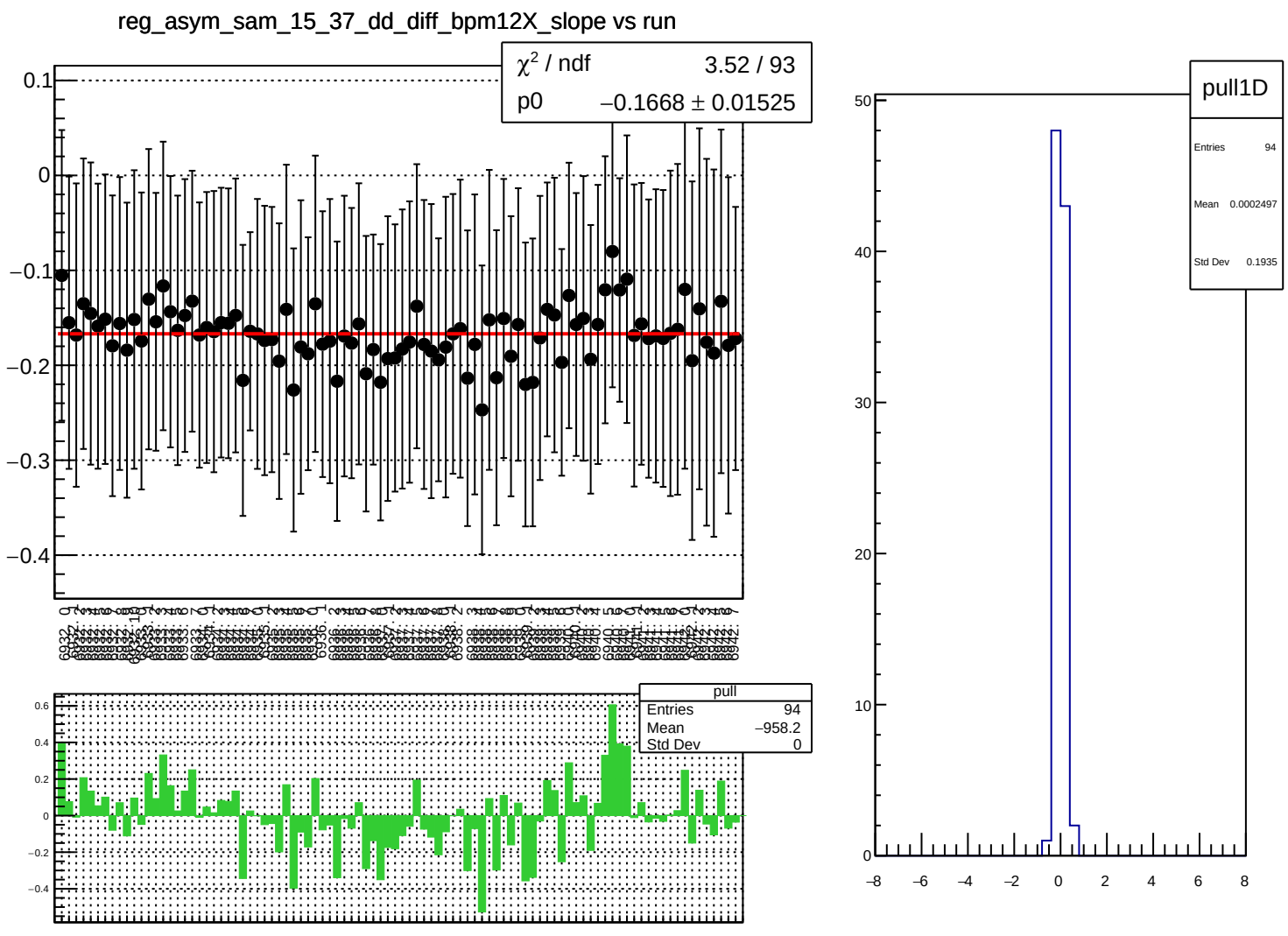

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 12.79 / 93
p0 0.2796 ± 0.01348
pull
Entries 94
Mean −168.1
Std Dev 0
pull1D
Entries 94
Mean 0.001243
Std Dev 0.3689

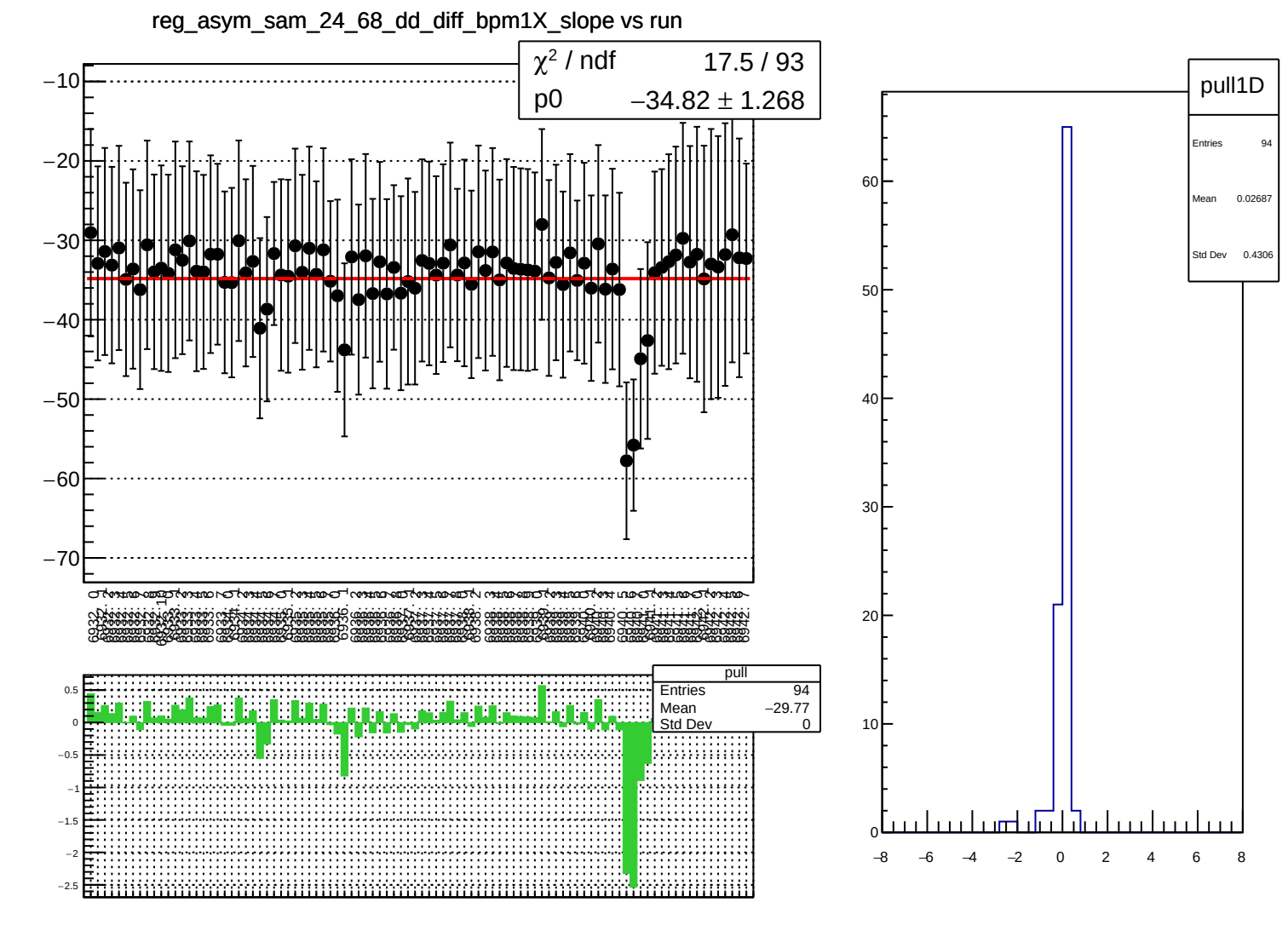

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 14.76 / 93
p0 5.645 ± 0.4843
pull
Entries 94
Mean 40.37
Std Dev 52.51
pull1D
Entries 94
Mean −0.02598
Std Dev 0.3954

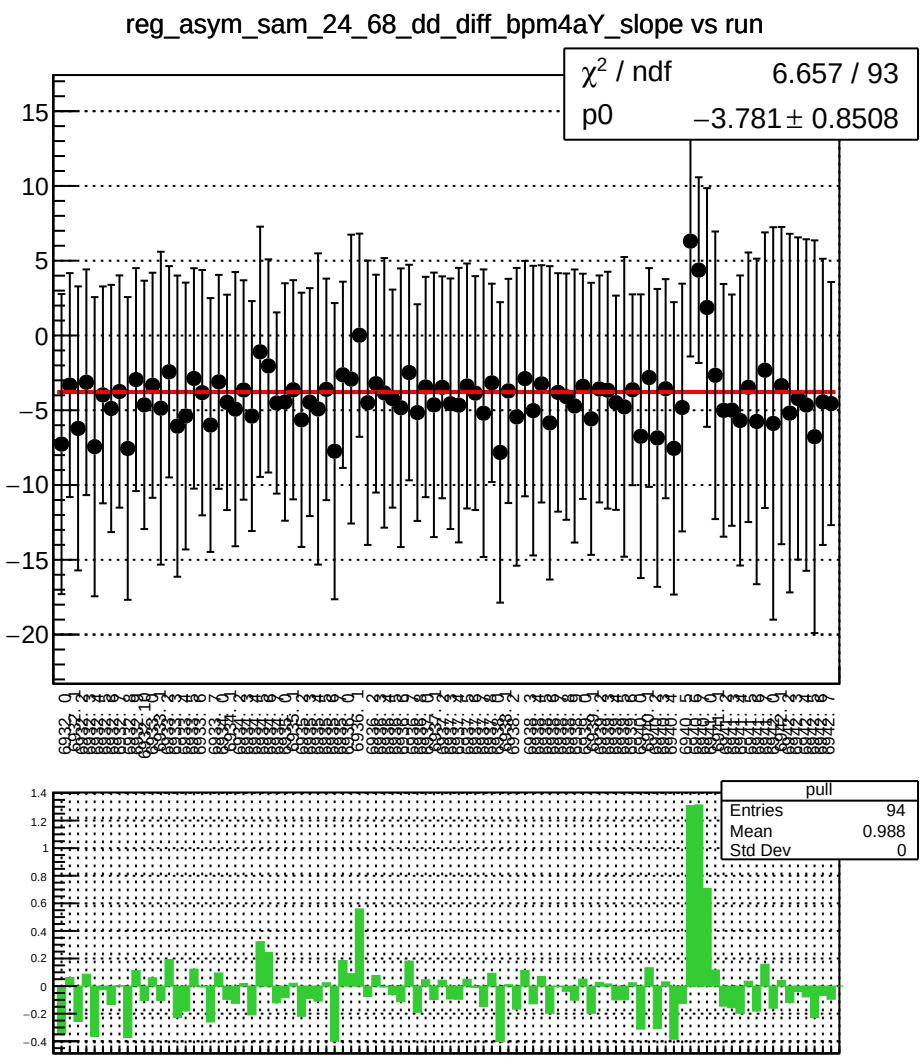

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.461 / 93
p0 0.309 ± 0.3245
pull
Entries 94
Mean 2.636
Std Dev 0
pull1D
Entries 94
Mean 0.01147
Std Dev 0.2175

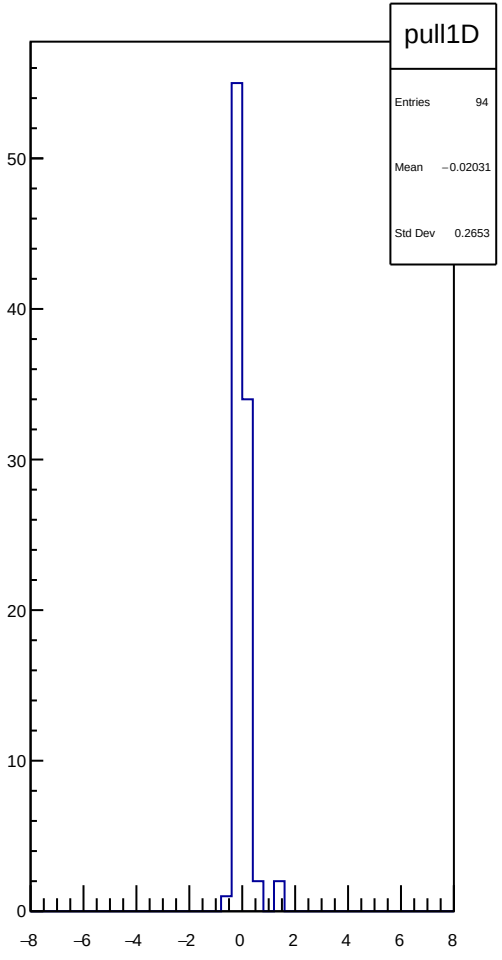

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.61 / 93
p0 33.99 ± 0.449
pull
Entries 94
Mean 32.59
Std Dev 49.78
pull1D
Entries 94
Mean 0.0266
Std Dev 0.4067

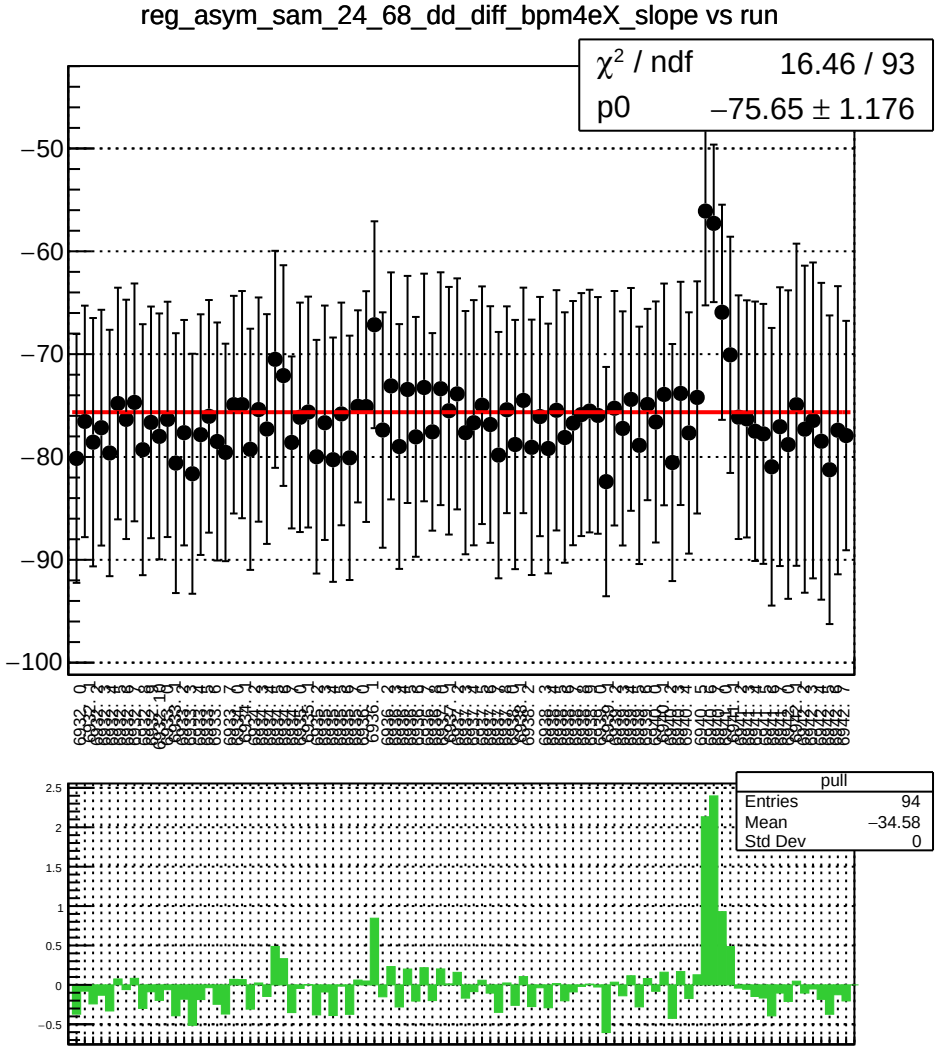

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.83 / 93
p0 20.8 ± 0.3751
pull
Entries 94
Mean −61.32
Std Dev 0
pull1D
Entries 94
Mean −0.009831
Std Dev 0.2694

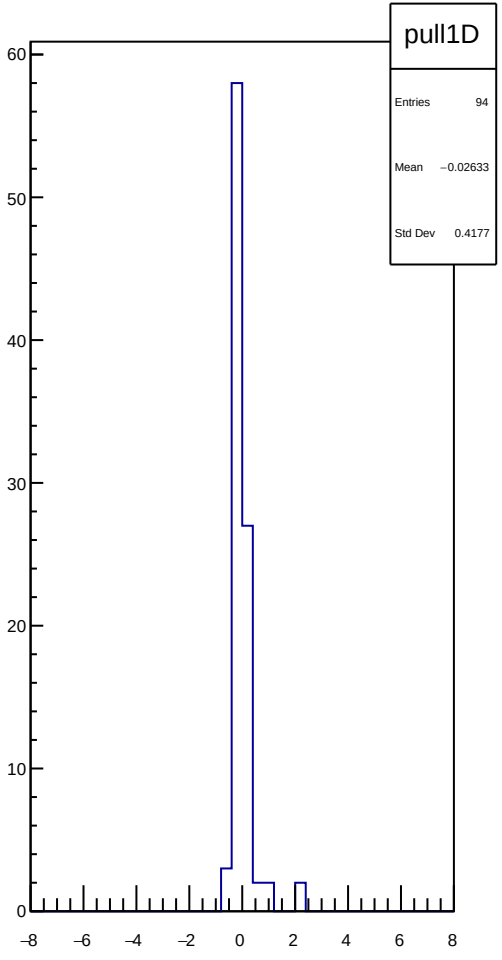

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 3.52 / 93
p0 −0.1668 ± 0.01525
pull
Entries 94
Mean −958.2
Std Dev 0
pull1D
Entries 94
Mean 0.0002497
Std Dev 0.1935

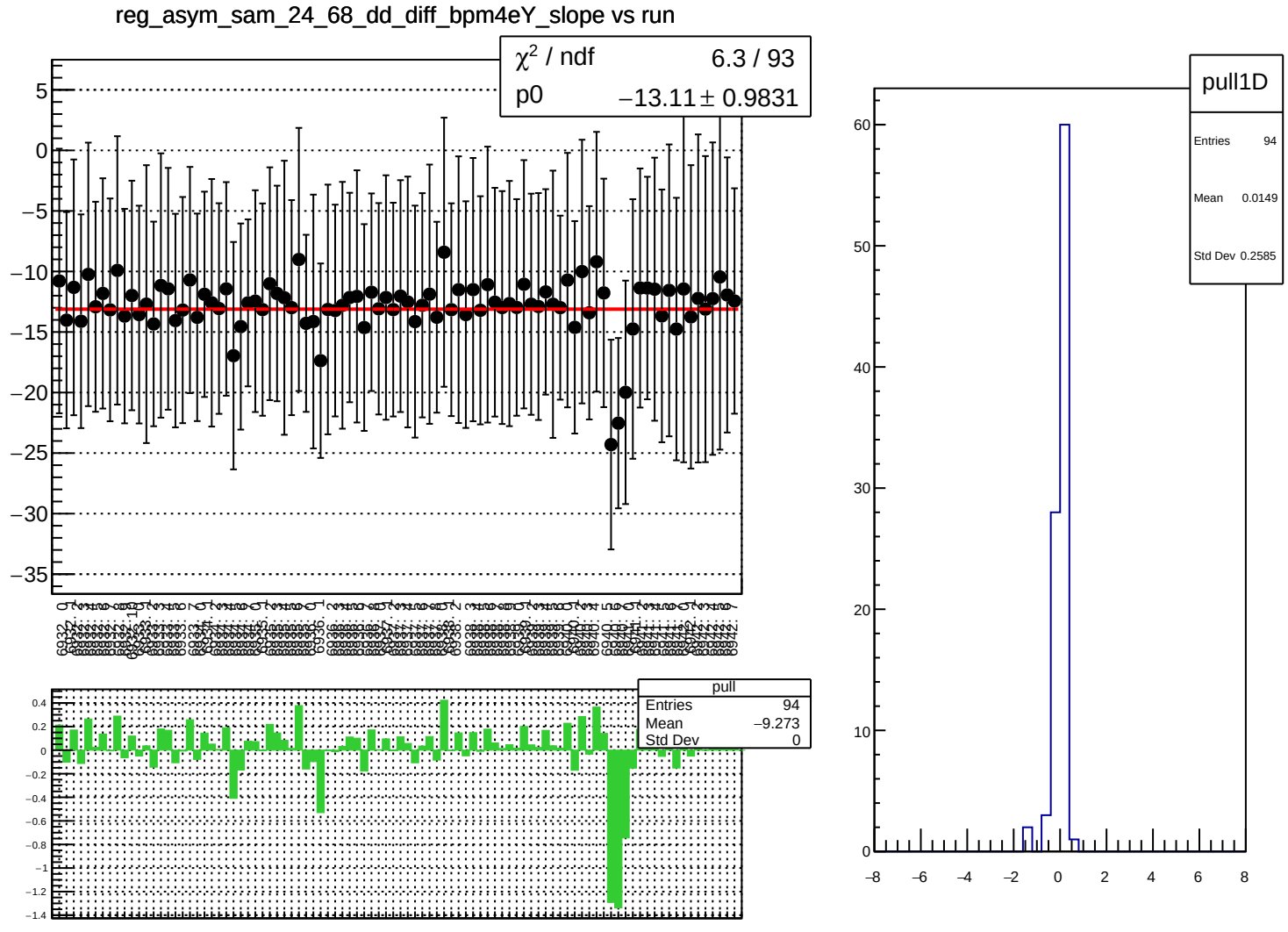

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 17.5 / 93
p0 −34.82 ± 1.268
pull
Entries 94
Mean −29.77
Std Dev 0
pull1D
Entries 94
Mean 0.02687
Std Dev 0.4306

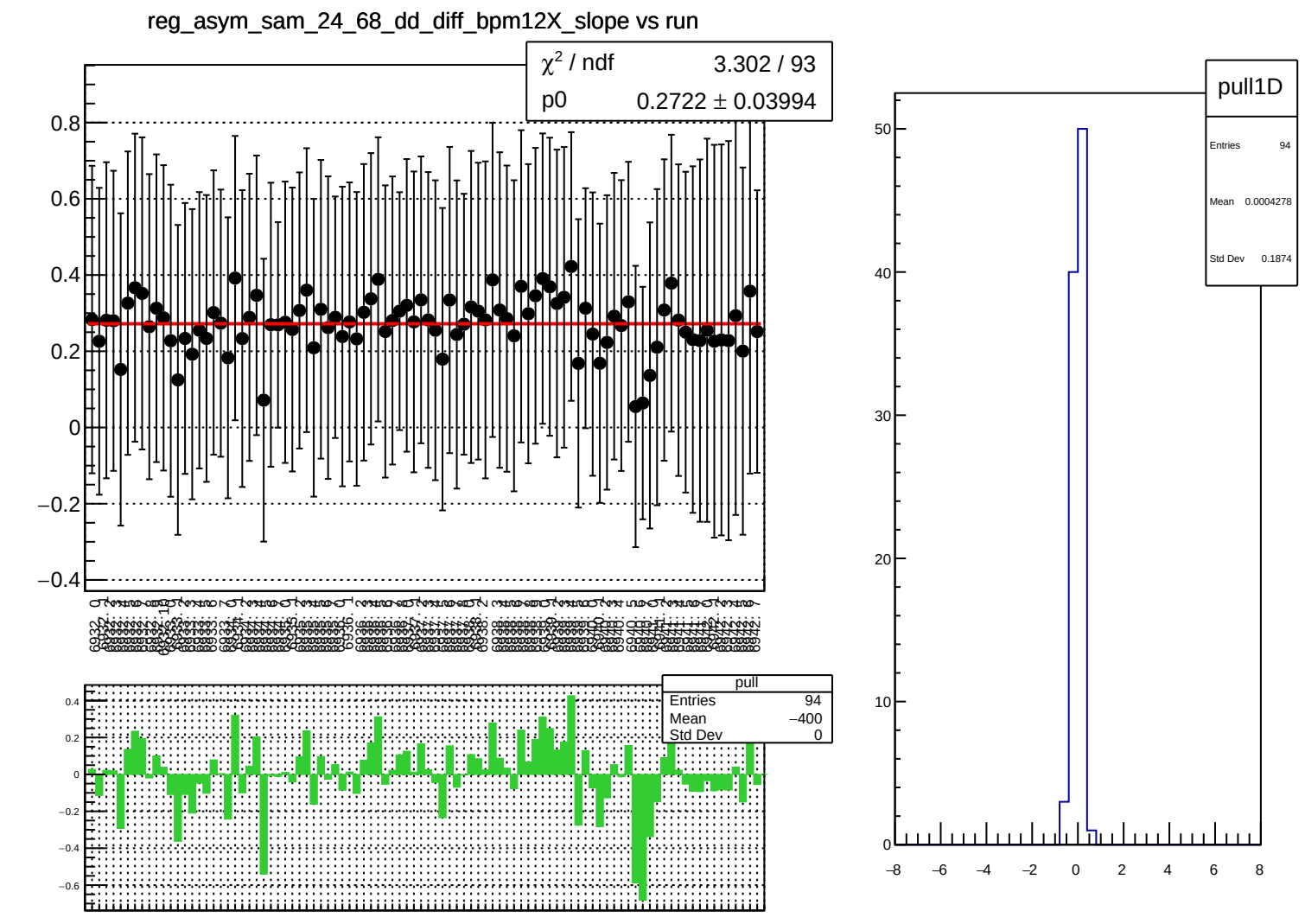

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.657 / 93
p0 −3.781 ± 0.8508
pull
Entries 94
Mean 0.988
Std Dev 0

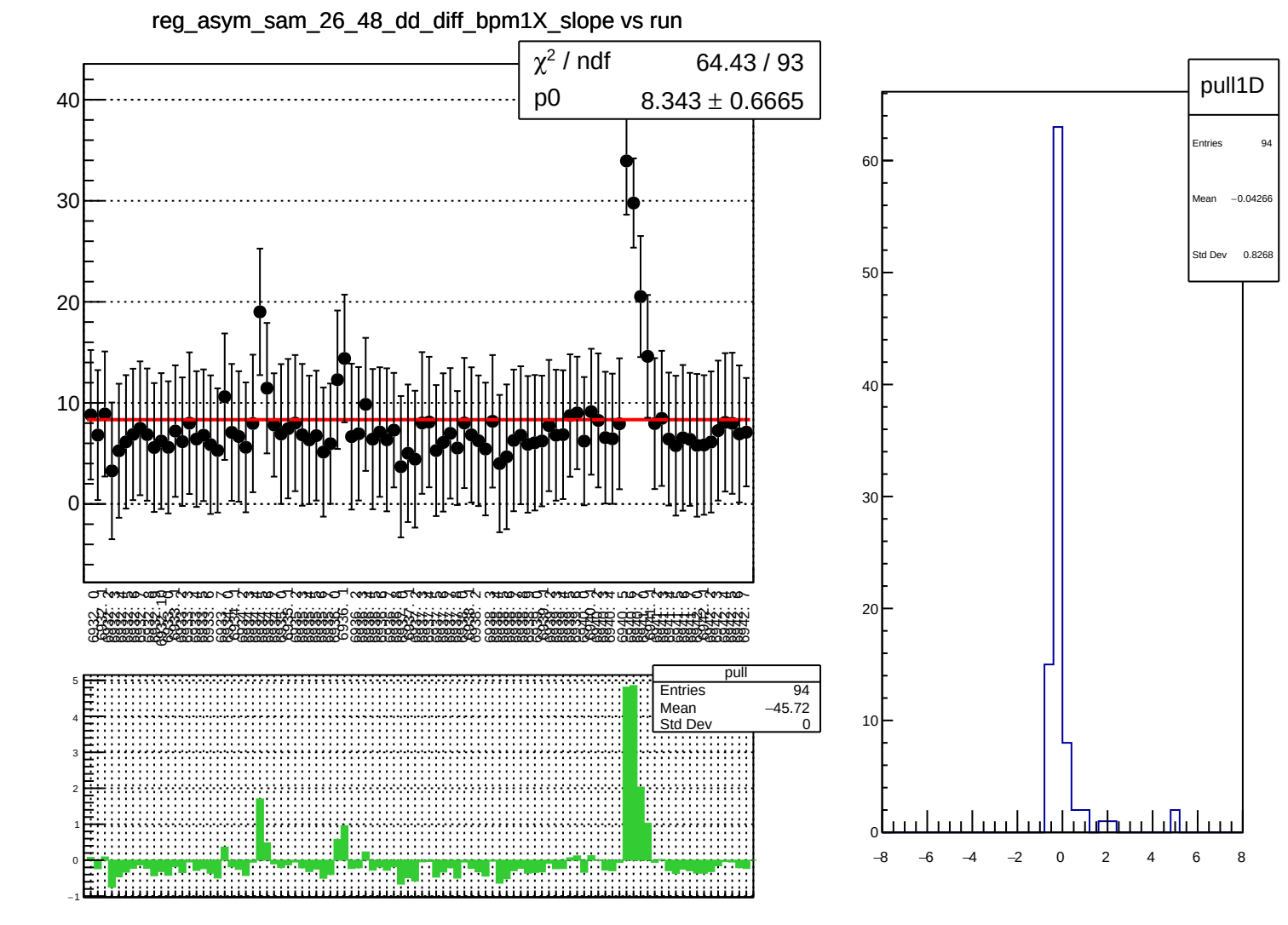

pull1D
Entries 94
Mean −0.02031
Std Dev 0.2653

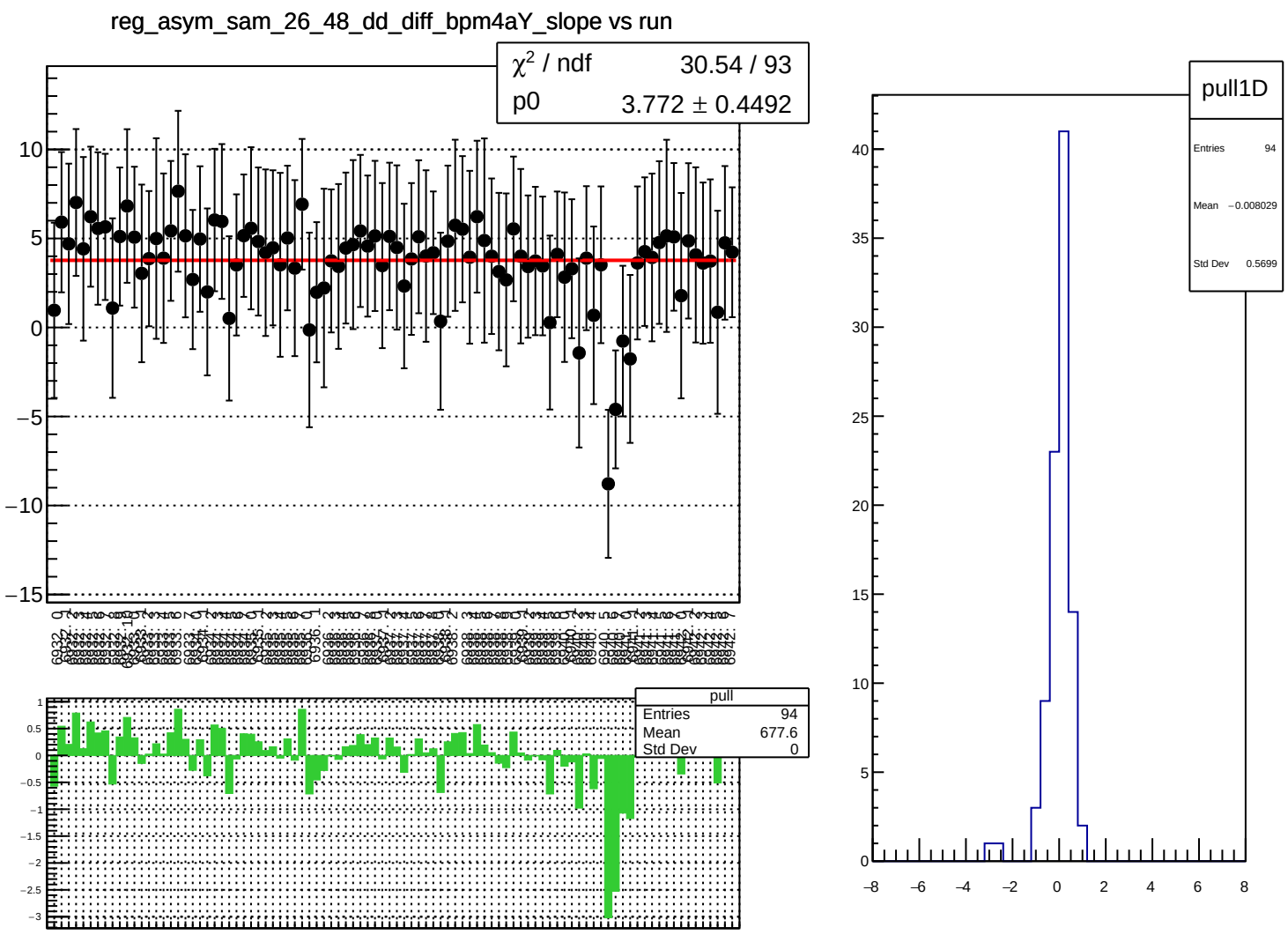

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.46 / 93
p0 −75.65 ± 1.176
pull
Entries 94
Mean −34.58
Std Dev 0

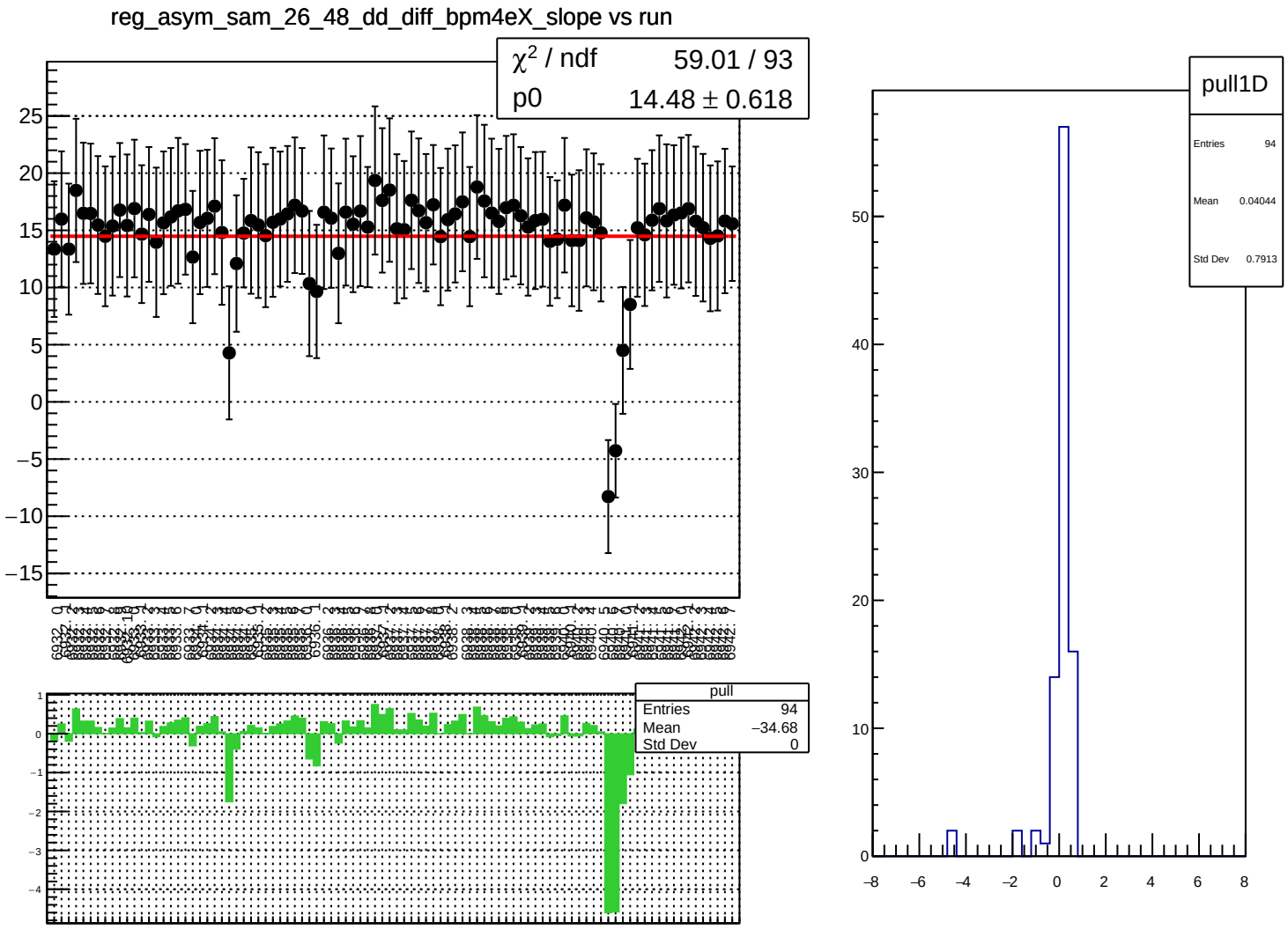

pull1D
Entries 94
Mean −0.02633
Std Dev 0.4177

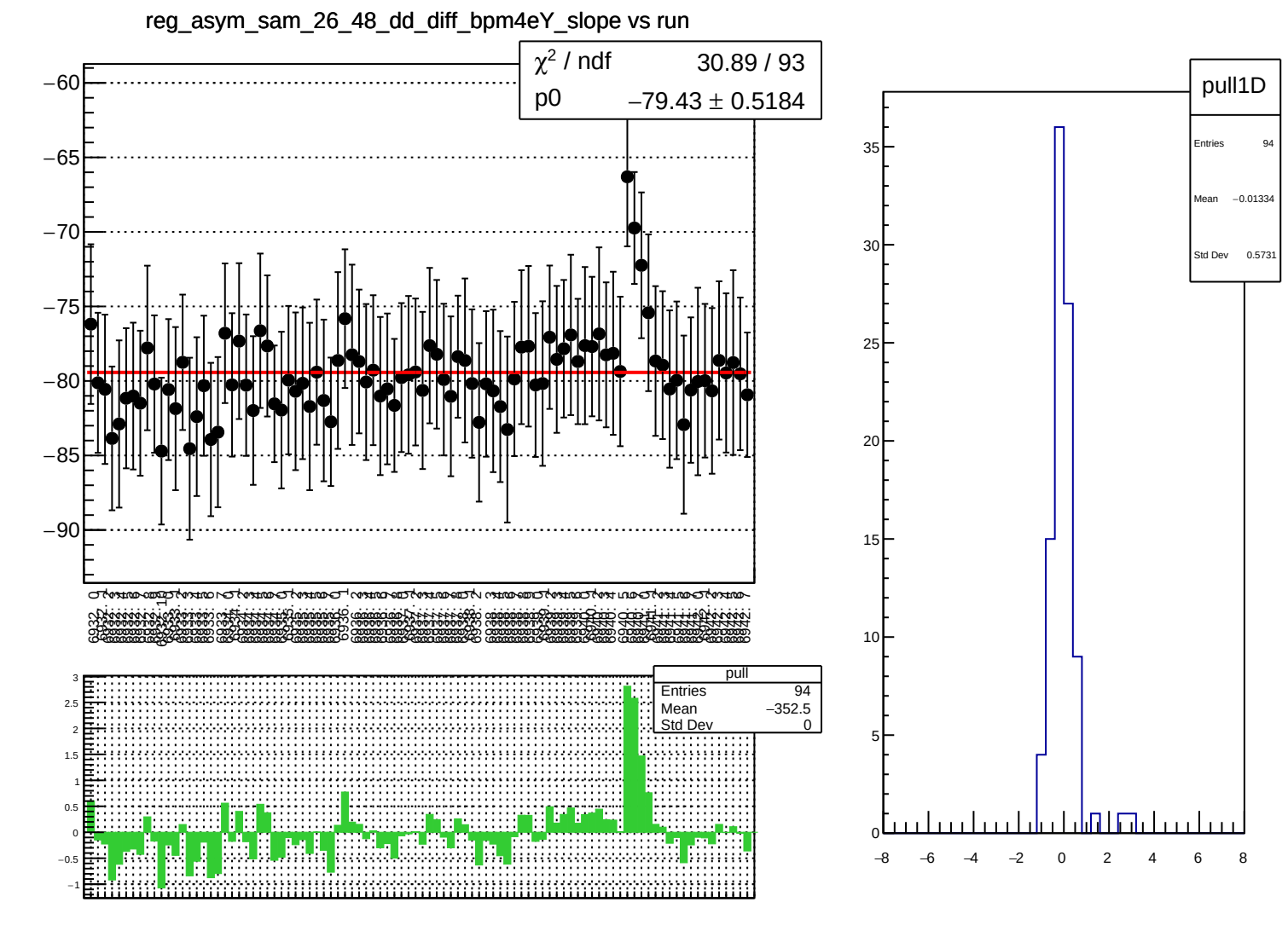

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.3 / 93
p0 −13.11 ± 0.9831
pull
Entries 94
Mean −9.273
Std Dev 0
pull1D
Entries 94
Mean 0.0149
Std Dev 0.2585

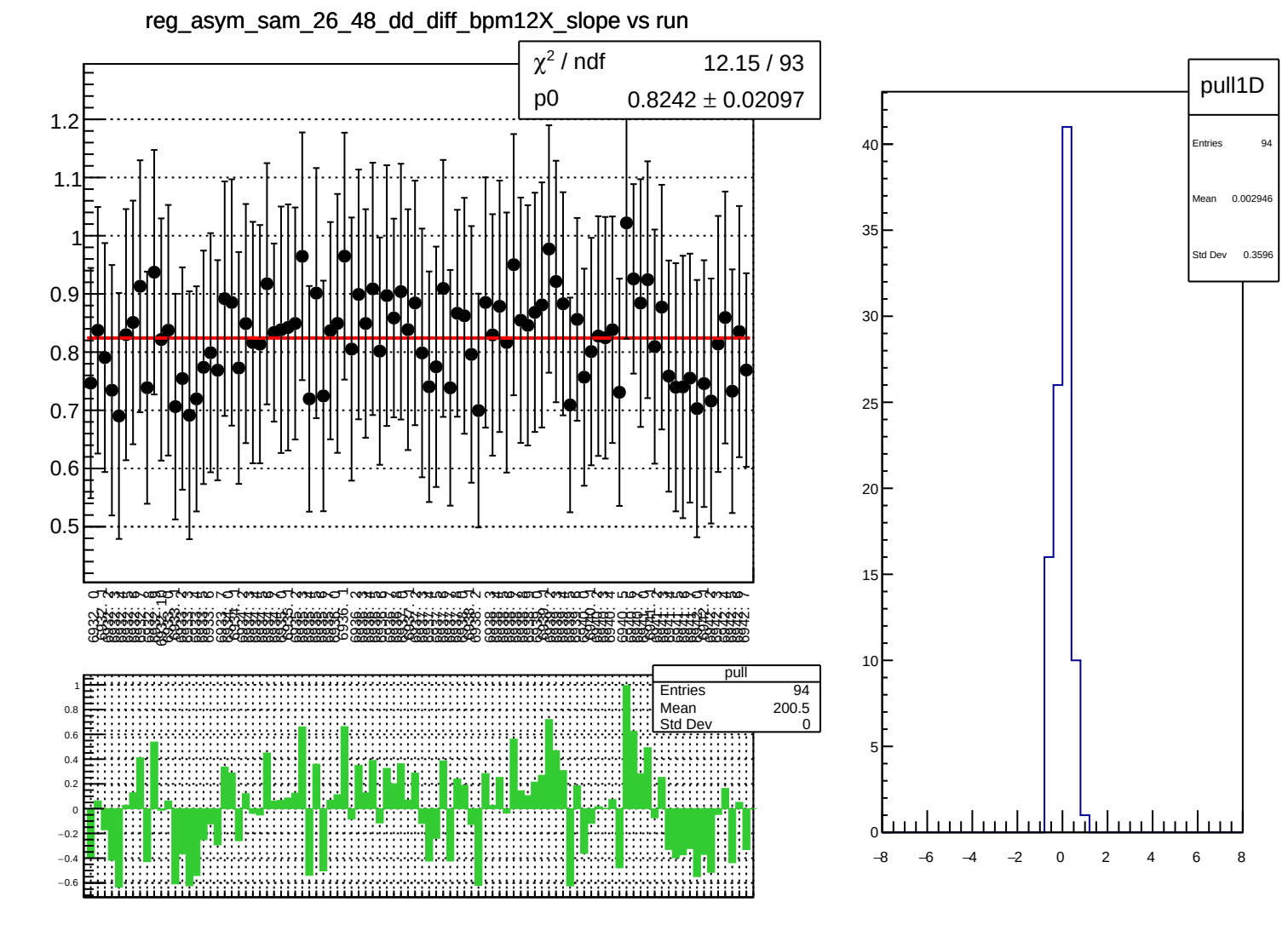

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.302 / 93
p0 0.2722 ± 0.03994
pull
Entries 94
Mean −400
Std Dev 0
pull1D
Entries 94
Mean 0.0004278
Std Dev 0.1874

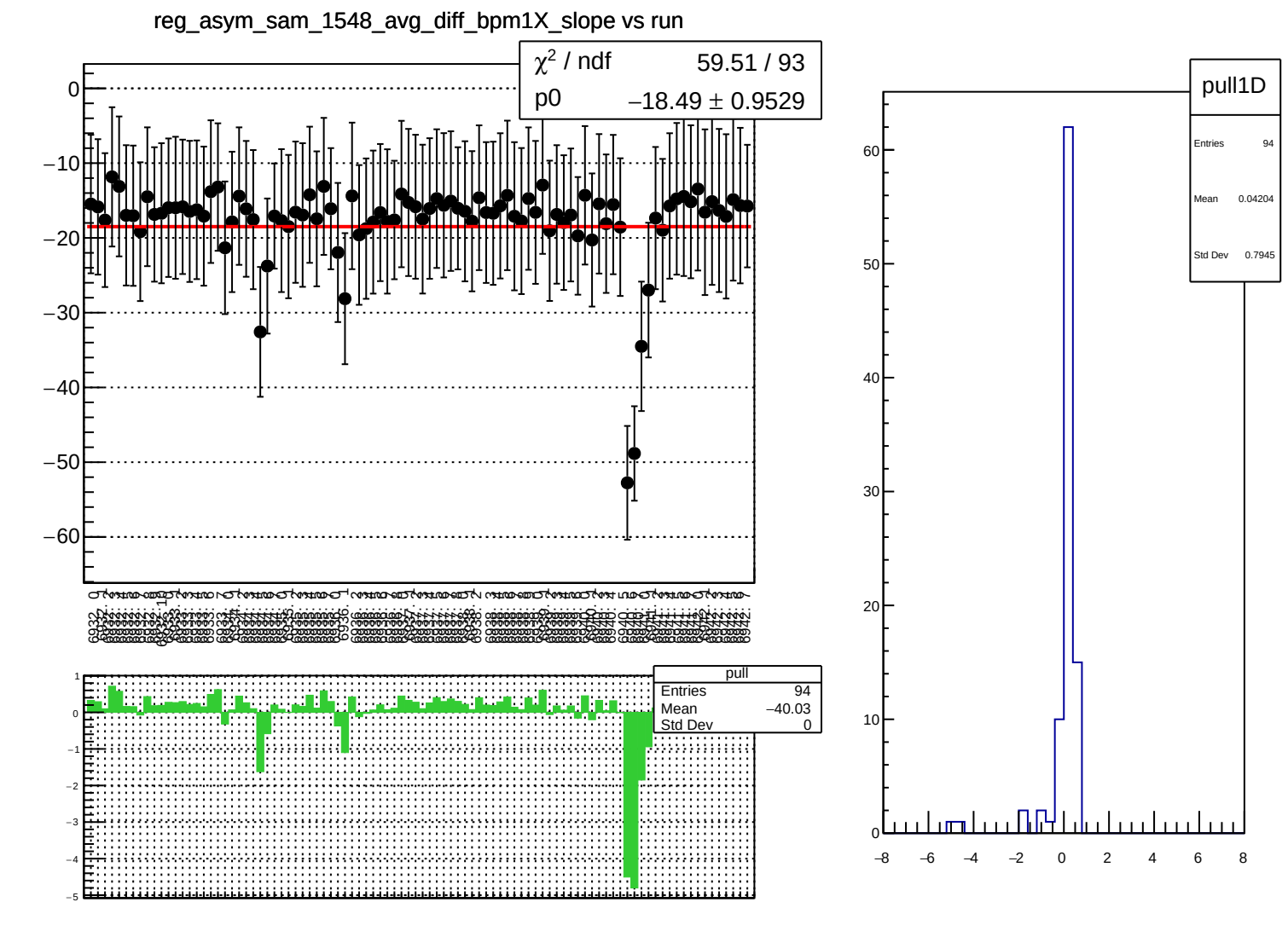

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 64.43 / 93
p0 8.343 ± 0.6665
pull
Entries 94
Mean −45.72
Std Dev 0
pull1D
Entries 94
Mean −0.04266
Std Dev 0.8268

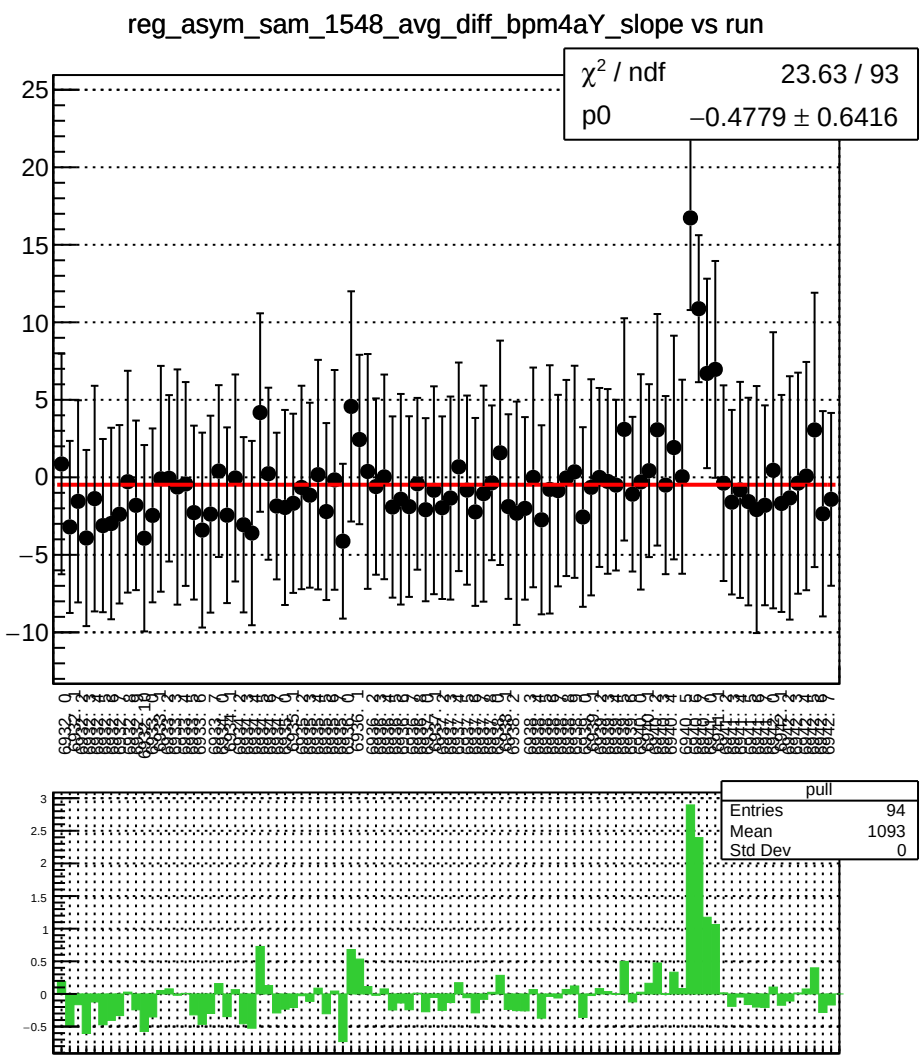

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 30.54 / 93
p0 3.772 ± 0.4492
pull
Entries 94
Mean 677.6
Std Dev 0
pull1D
Entries 94
Mean −0.008029
Std Dev 0.5699

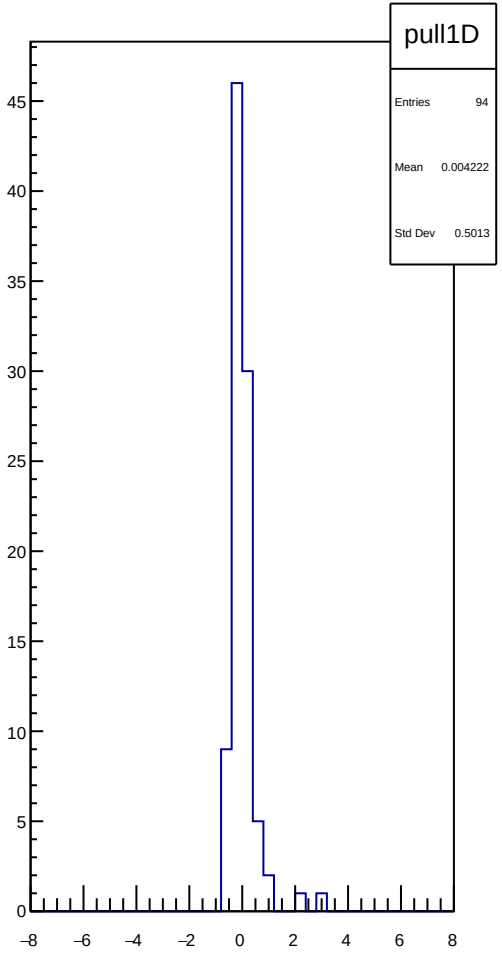

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.01 / 93
p0 14.48 ± 0.618
pull
Entries 94
Mean −34.68
Std Dev 0
pull1D
Entries 94
Mean 0.04044
Std Dev 0.7913

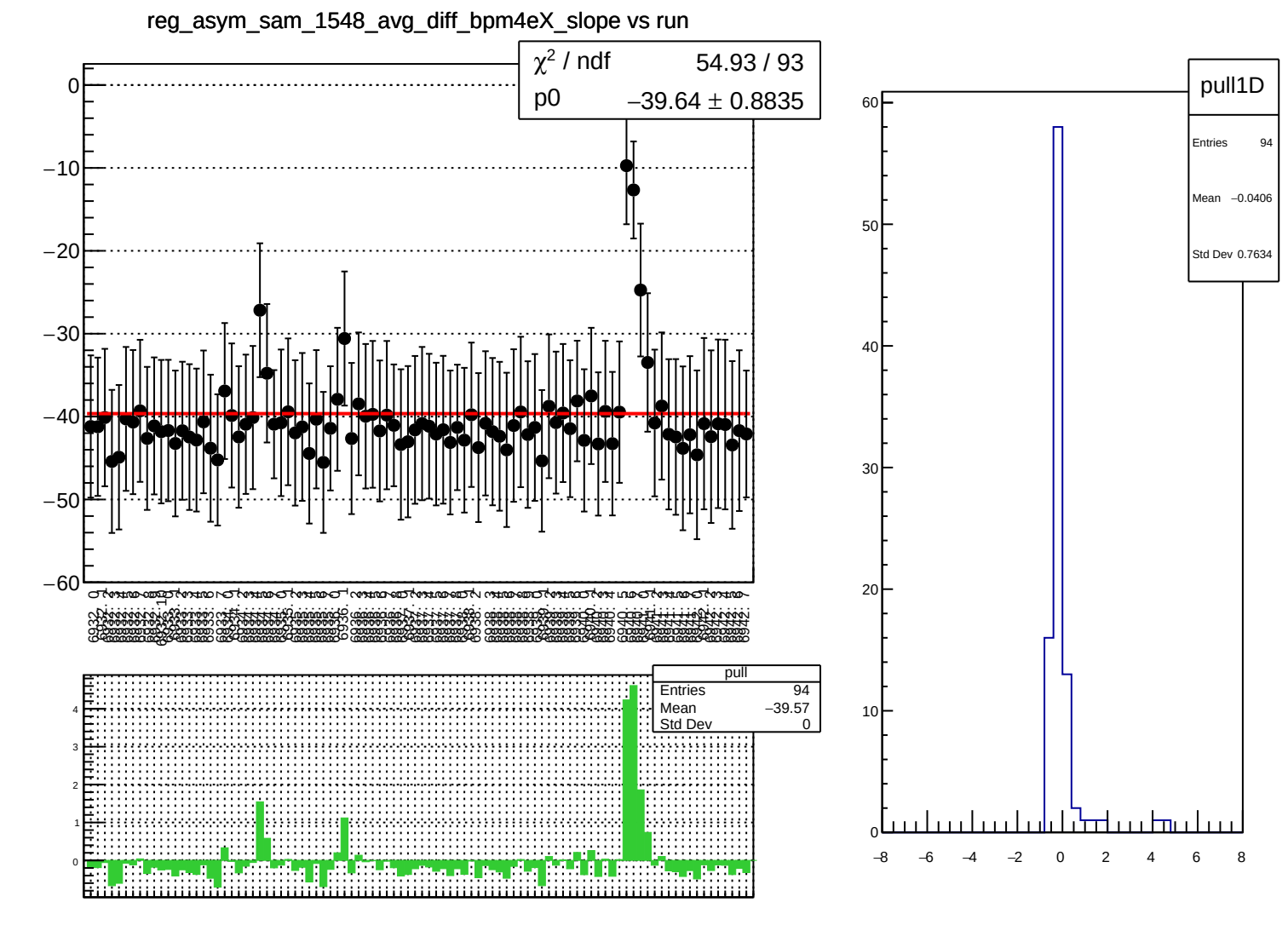

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.89 / 93
p0 −79.43 ± 0.5184
−60
−65
−70
−75
−80
−85
−90
pull
Entries 94
Mean −352.5
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.01334
Std Dev 0.5731
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

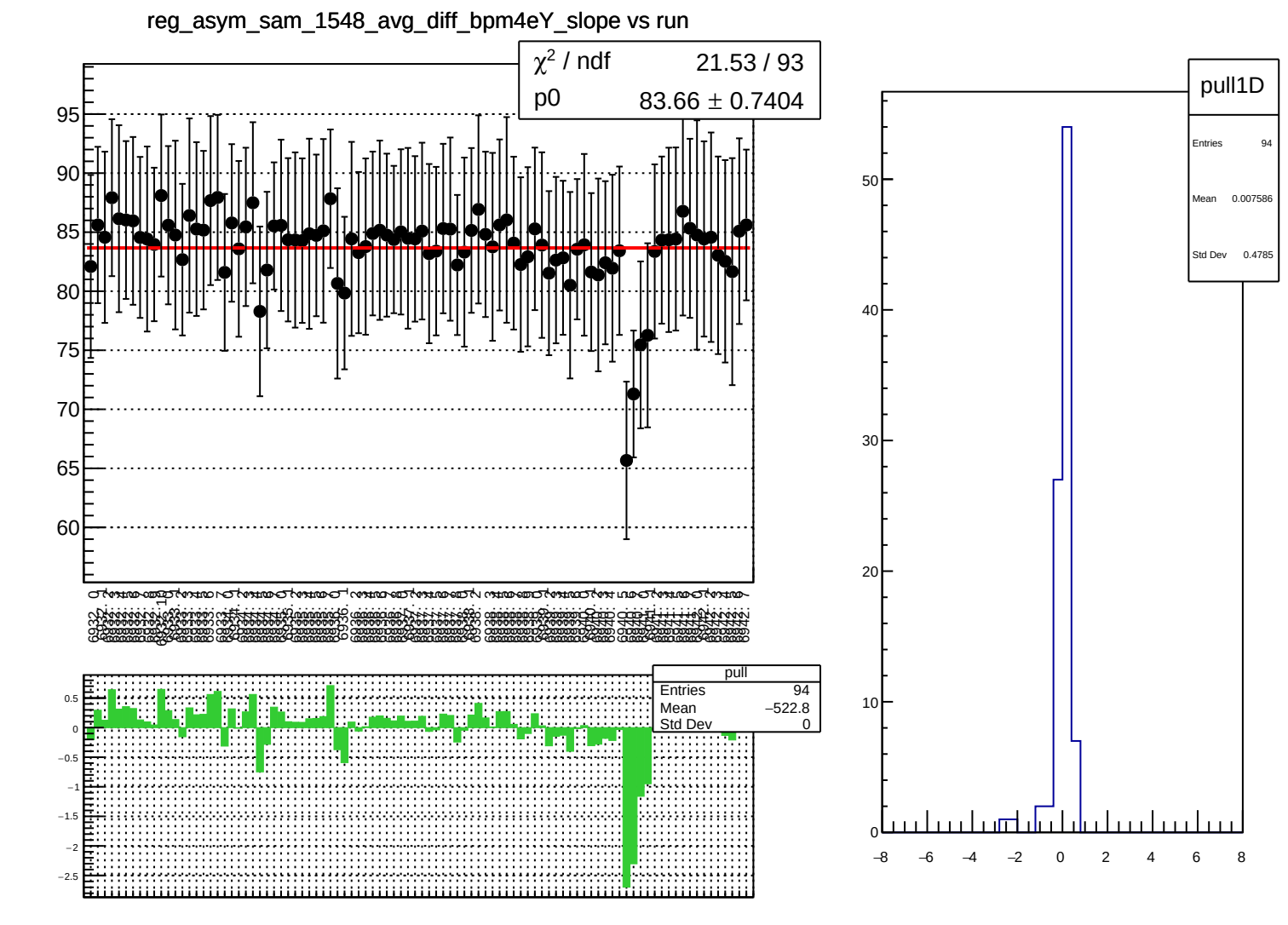

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.15 / 93
p0 0.8242 ± 0.02097
pull
Entries 94
Mean 200.5
Std Dev 0
pull1D
Entries 94
Mean 0.002946
Std Dev 0.3596

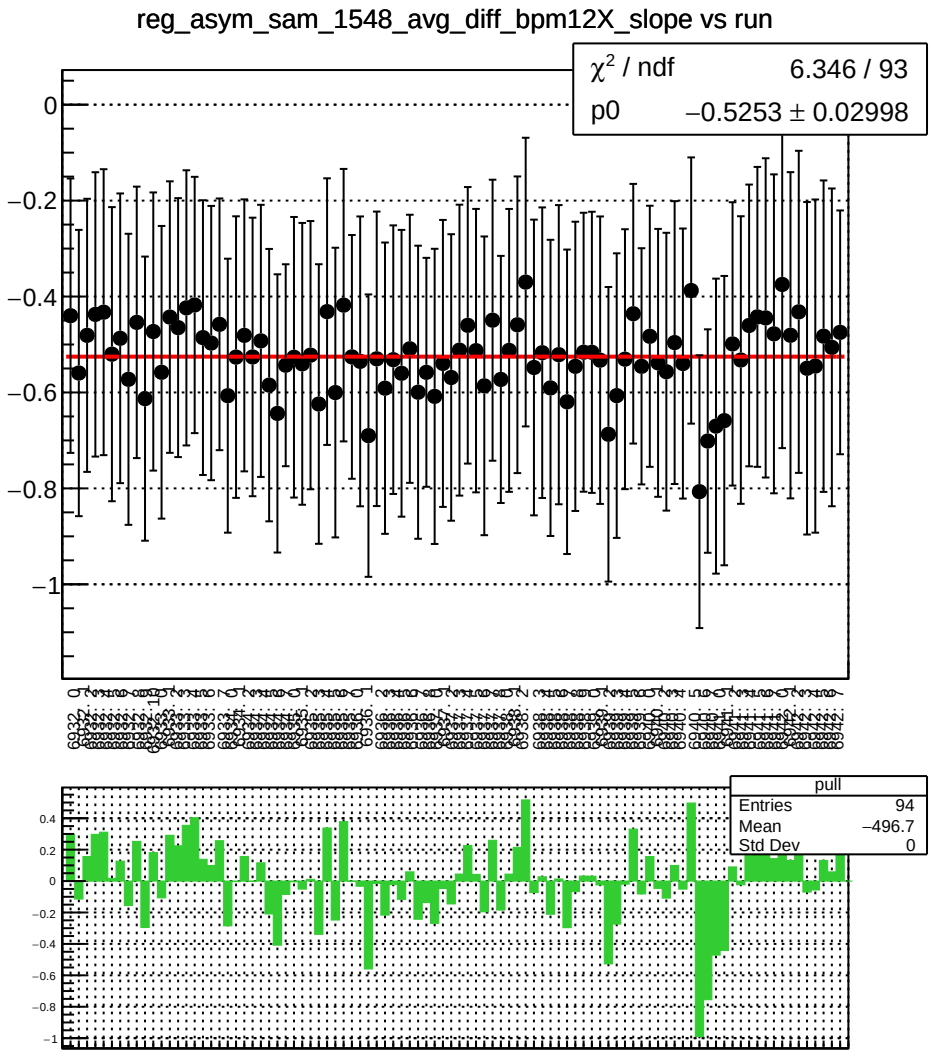

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 59.51 / 93
p0 −18.49 ± 0.9529
pull
Entries 94
Mean −40.03
Std Dev 0
pull1D
Entries 94
Mean 0.04204
Std Dev 0.7945

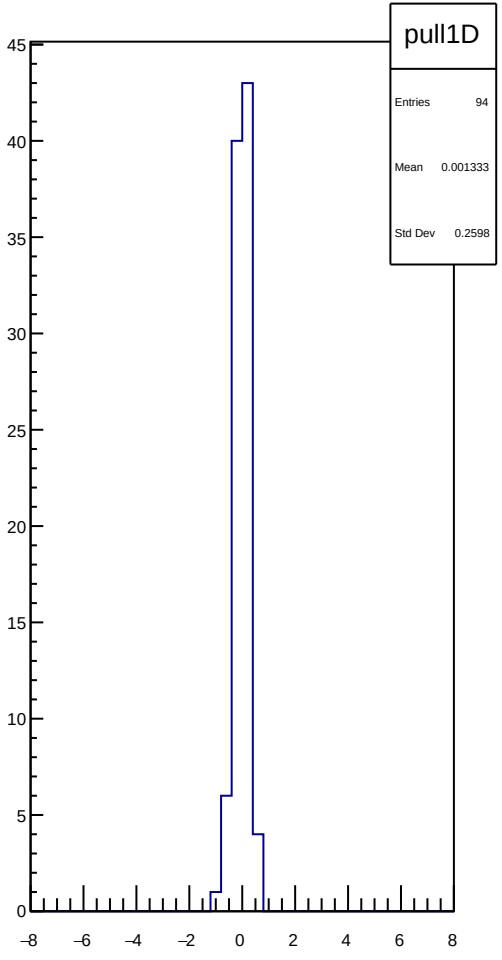

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.63 / 93
p0 −0.4779 ± 0.6416
pull
Entries 94
Mean 1093
Std Dev 0

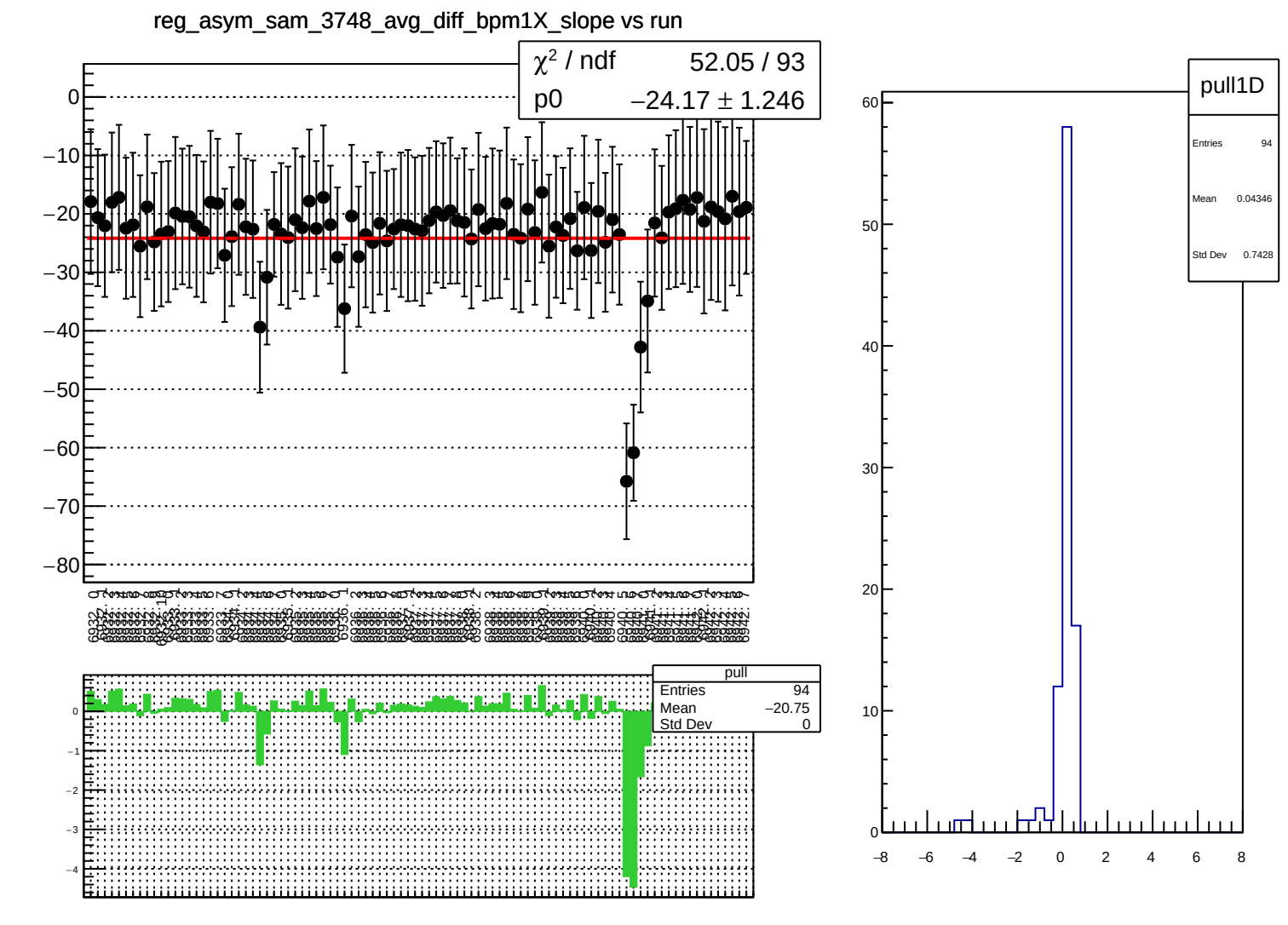

pull1D
Entries 94
Mean 0.004222
Std Dev 0.5013

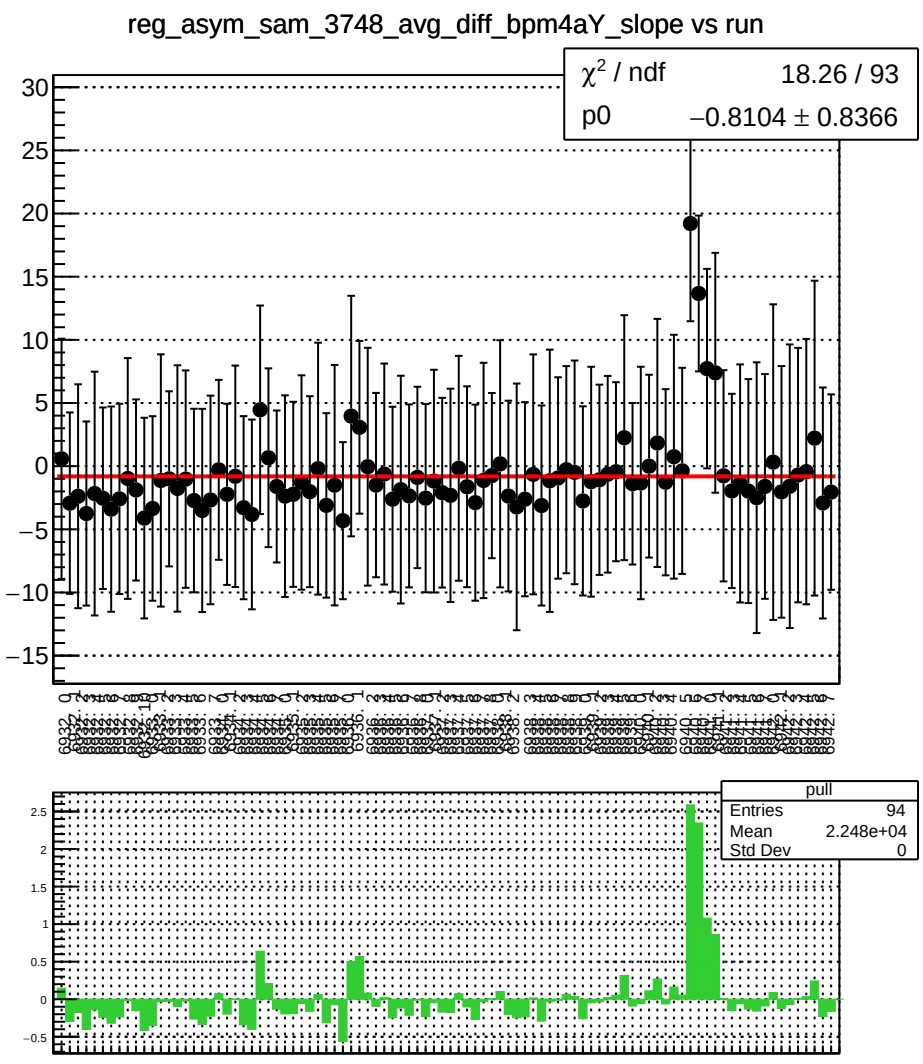

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.93 / 93
p0 −39.64 ± 0.8835
pull
Entries 94
Mean −39.57
Std Dev 0
pull1D
Entries 94
Mean −0.0406
Std Dev 0.7634

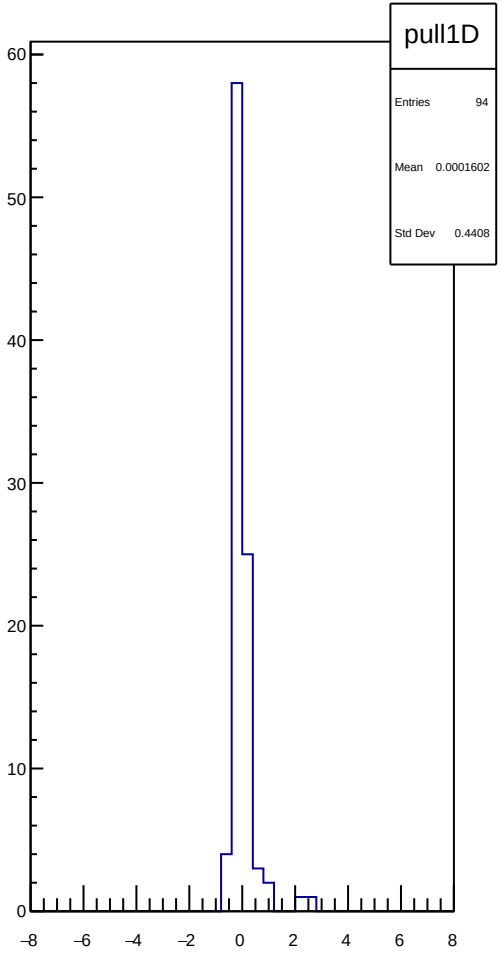

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.53 / 93
p0 83.66 ± 0.7404
pull
Entries 94
Mean −522.8
Std Dev 0
pull1D
Entries 94
Mean 0.007586
Std Dev 0.4785

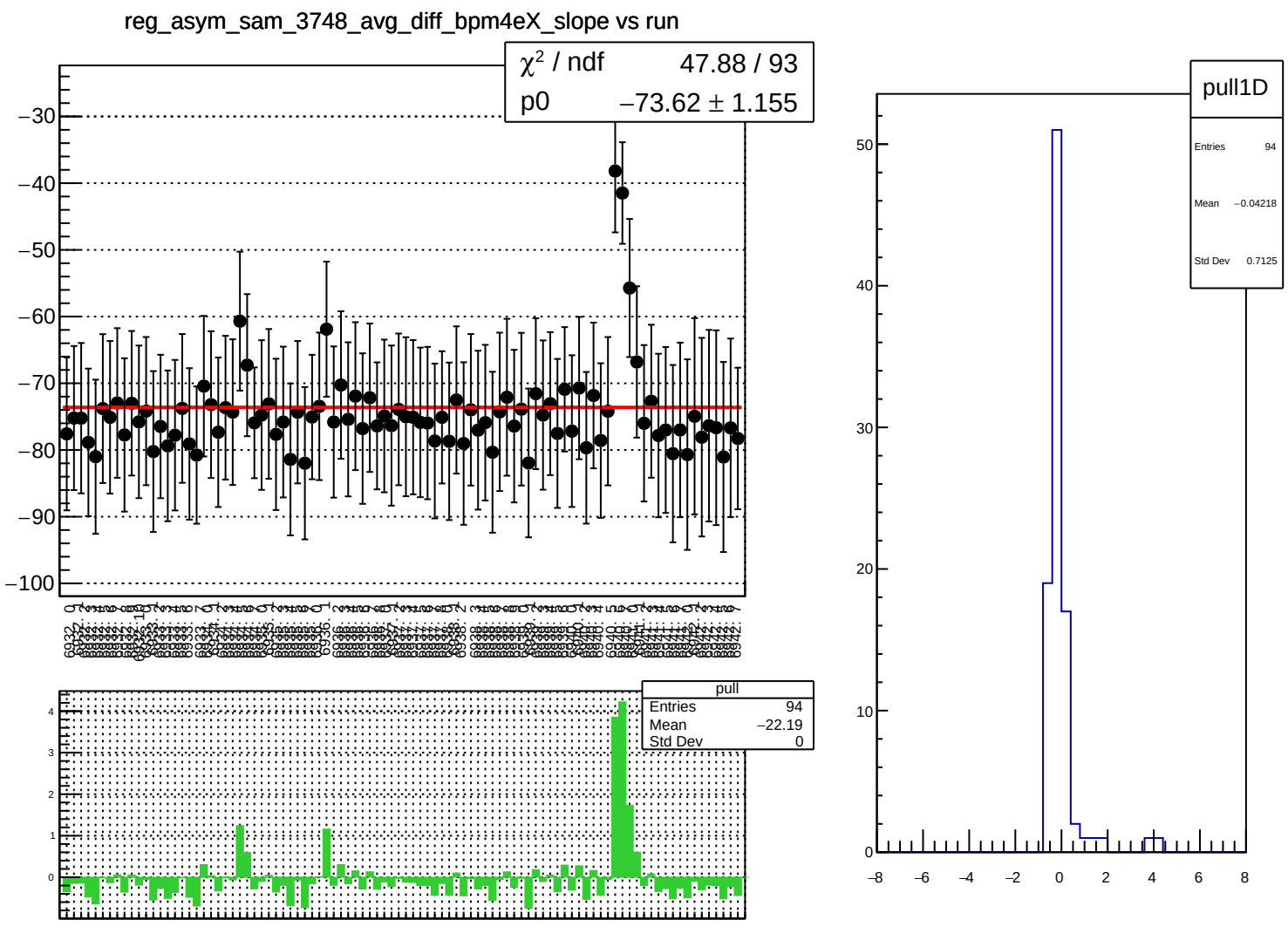

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 6.346 / 93
p0 −0.5253 ± 0.02998
pull
Entries 94
Mean −496.7
Std Dev 0

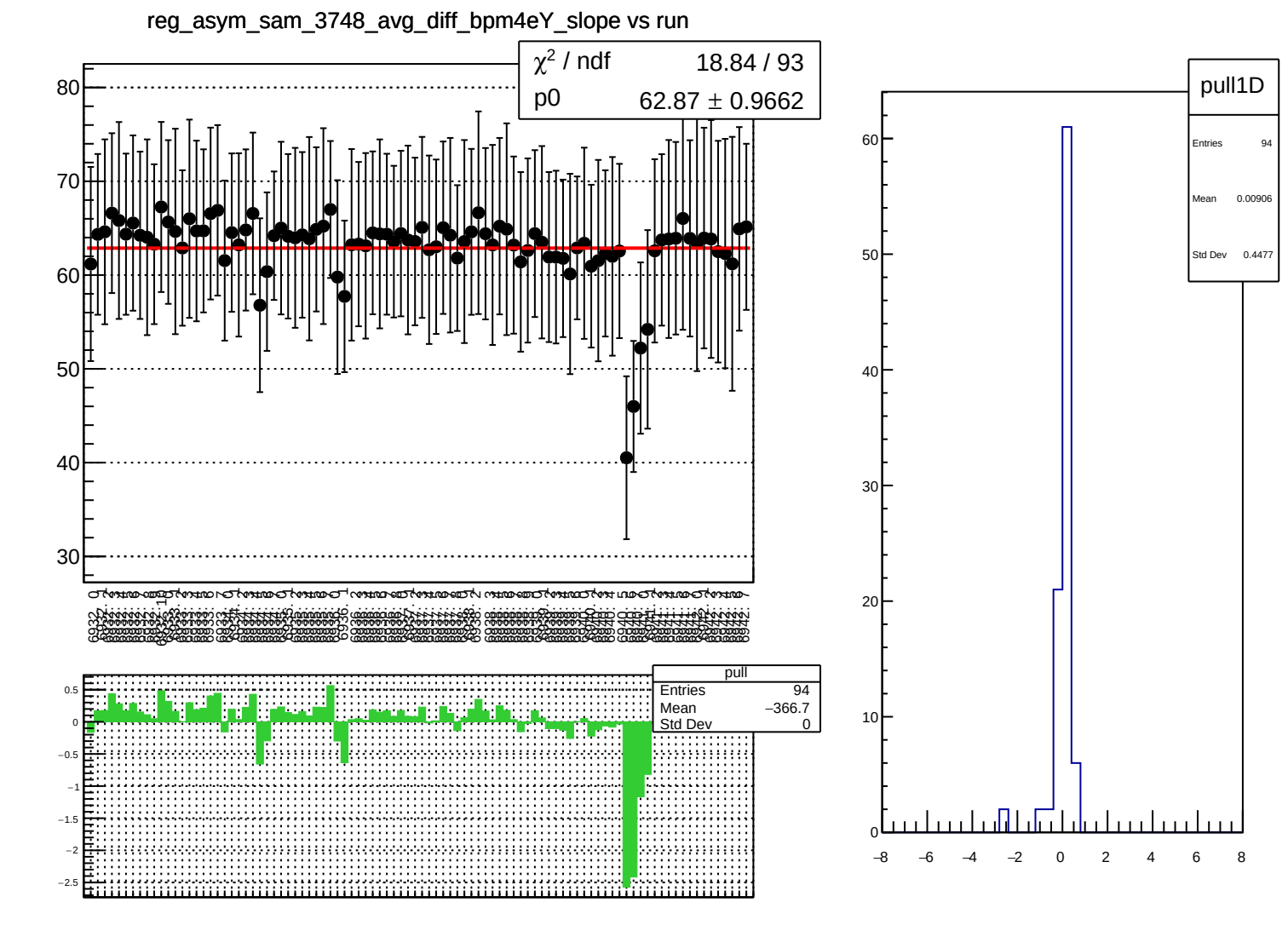

pull1D
Entries 94
Mean 0.001333
Std Dev 0.2598

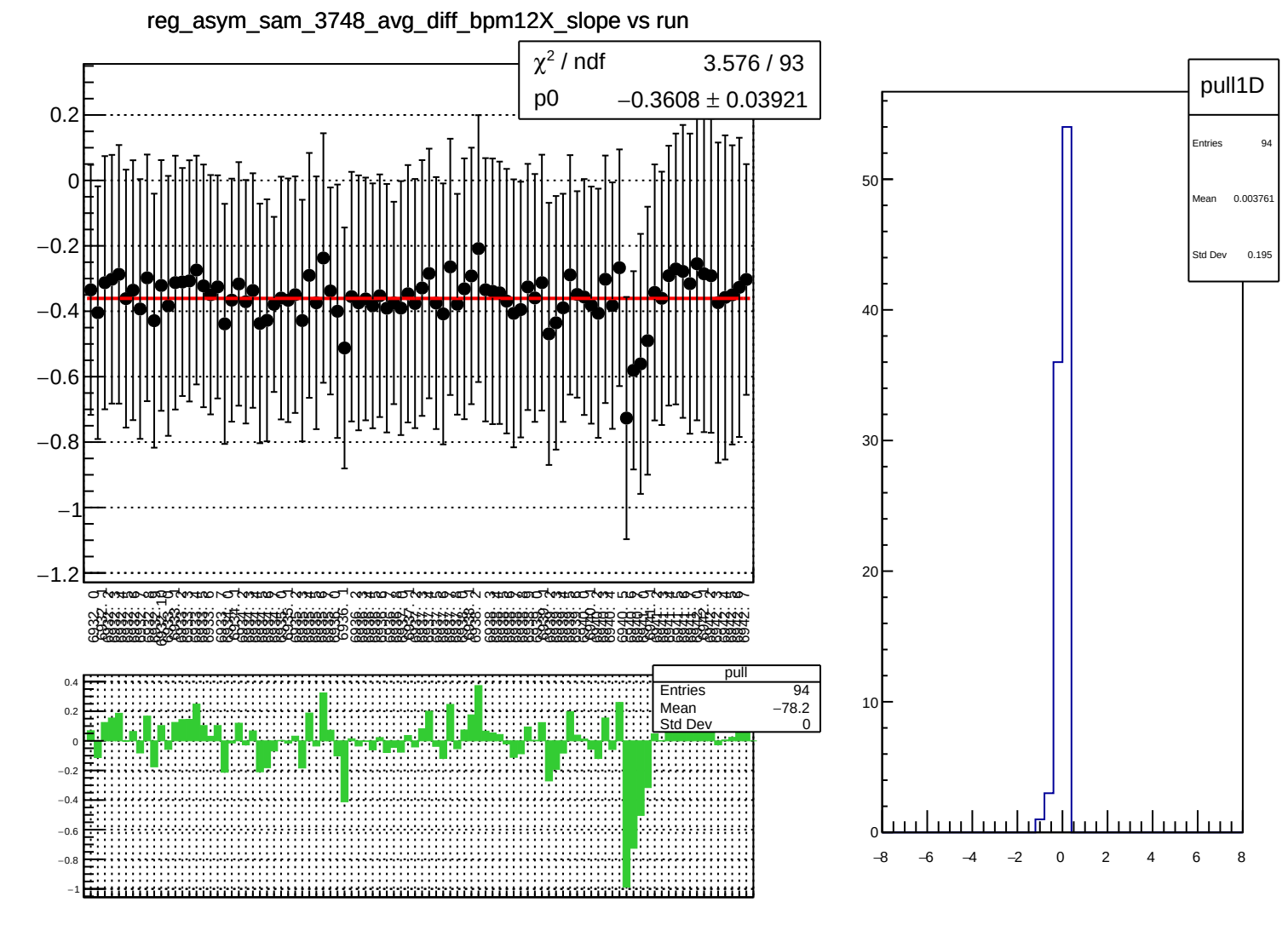

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 52.05 / 93
p0 −24.17 ± 1.246
pull
Entries 94
Mean −20.75
Std Dev 0
pull1D
Entries 94
Mean 0.04346
Std Dev 0.7428

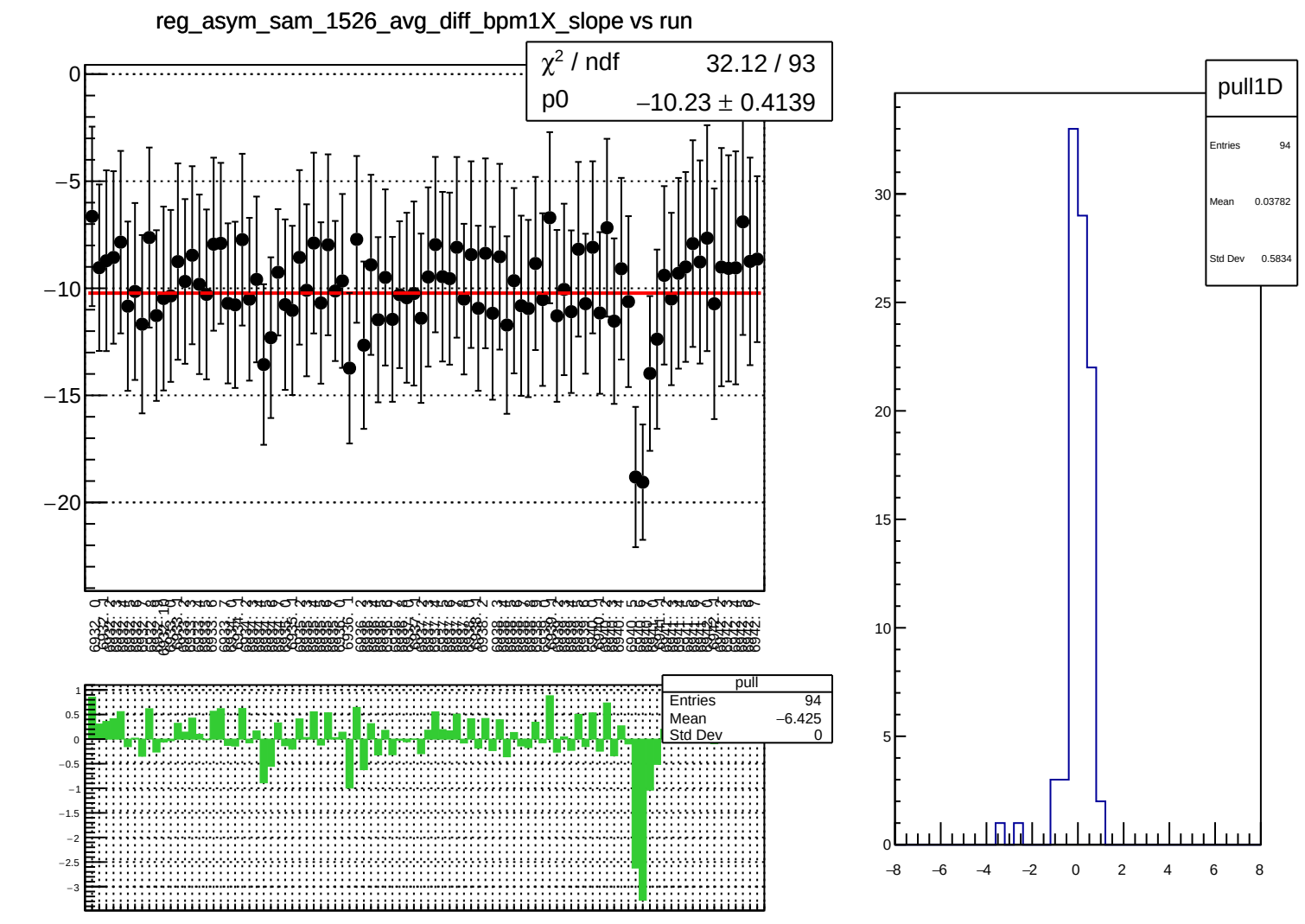

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.26 / 93
p0 −0.8104 ± 0.8366
pull
Entries 94
Mean 2.248e+04
Std Dev 0

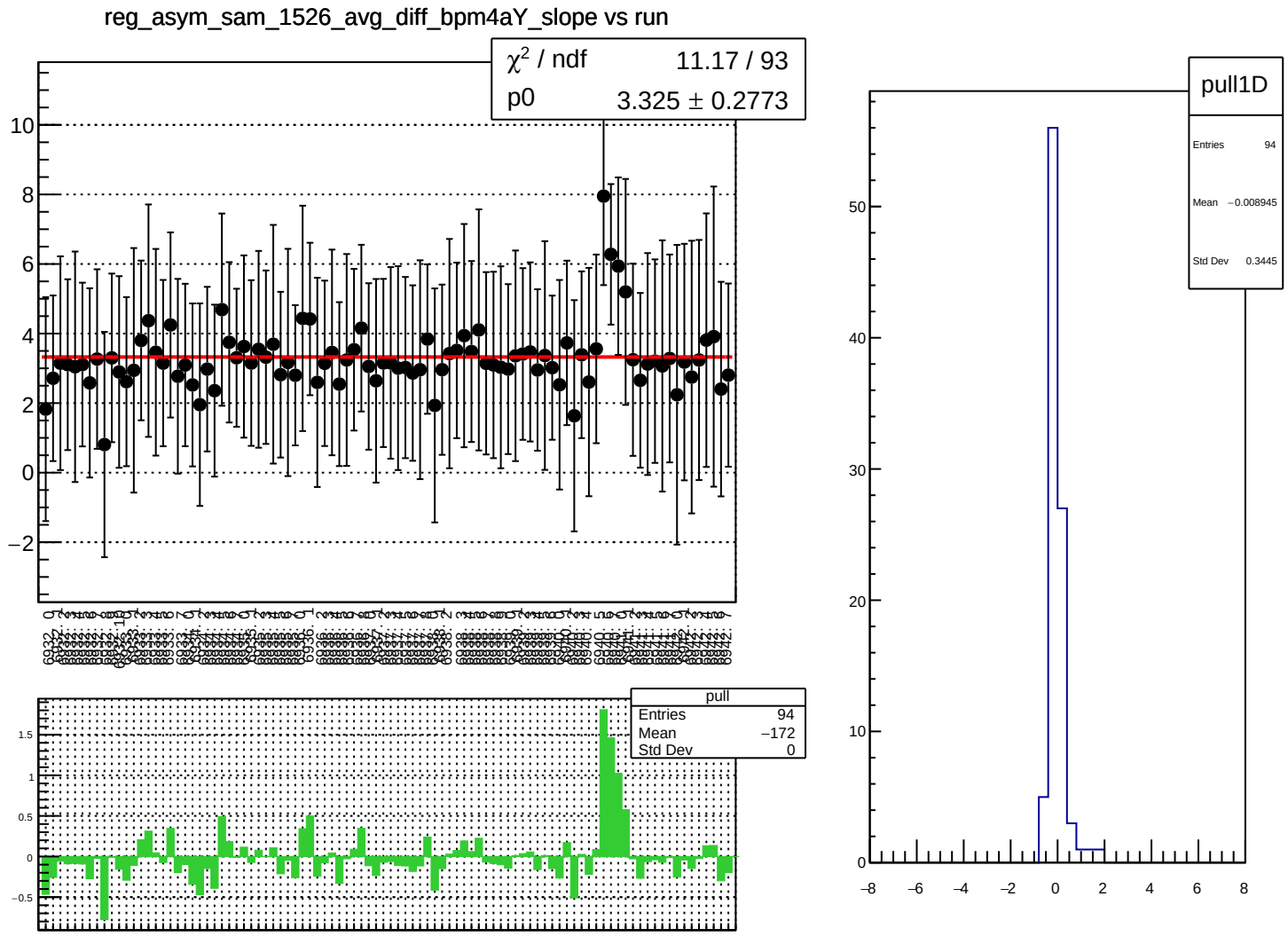

pull1D
Entries 94
Mean 0.0001602
Std Dev 0.4408

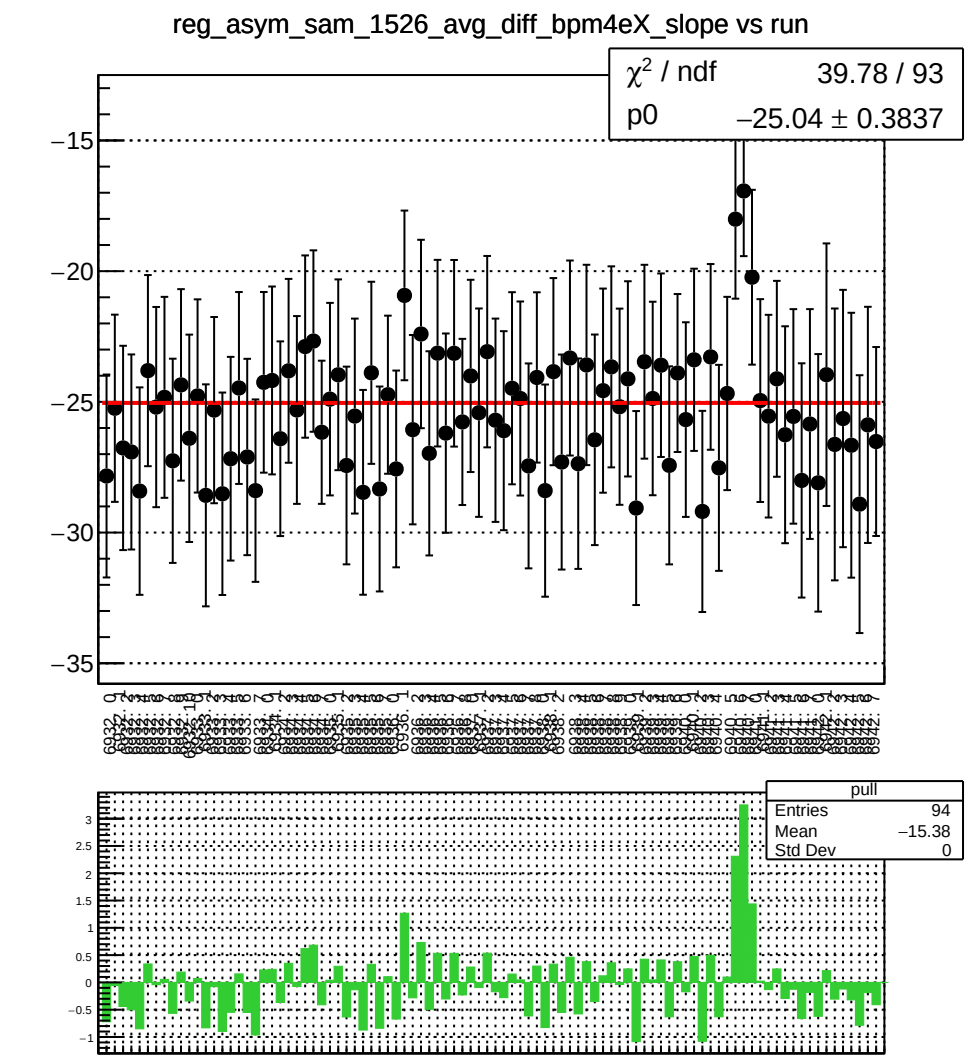

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.88 / 93
p0 −73.62 ± 1.155
−30
−40
−50
−60
−70
−80
−90
−100
pull
Entries 94
Mean −22.19
Std Dev 0
4
3
2
1
0
pull1D
Entries 94
Mean −0.04218
Std Dev 0.7125
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

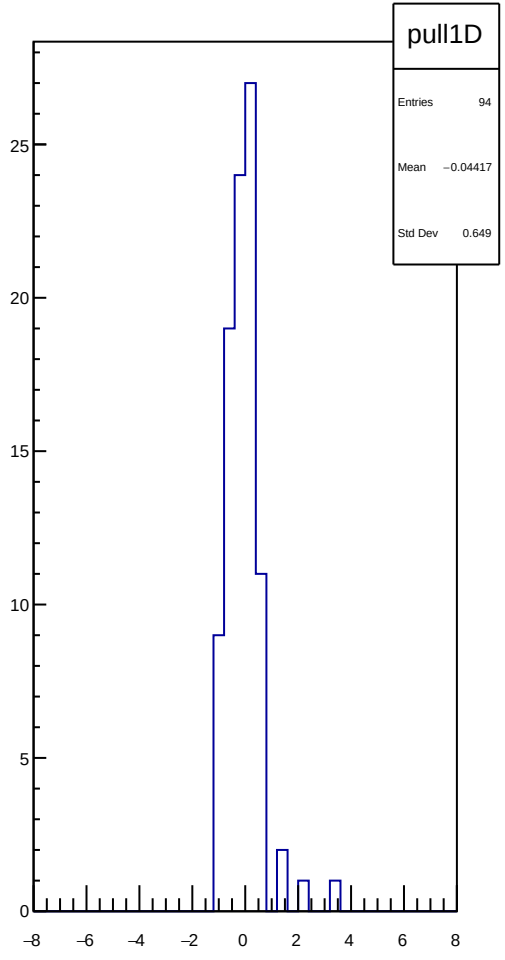

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.84 / 93
p0 62.87 ± 0.9662
pull
Entries 94
Mean −366.7
Std Dev 0
pull1D
Entries 94
Mean 0.00906
Std Dev 0.4477

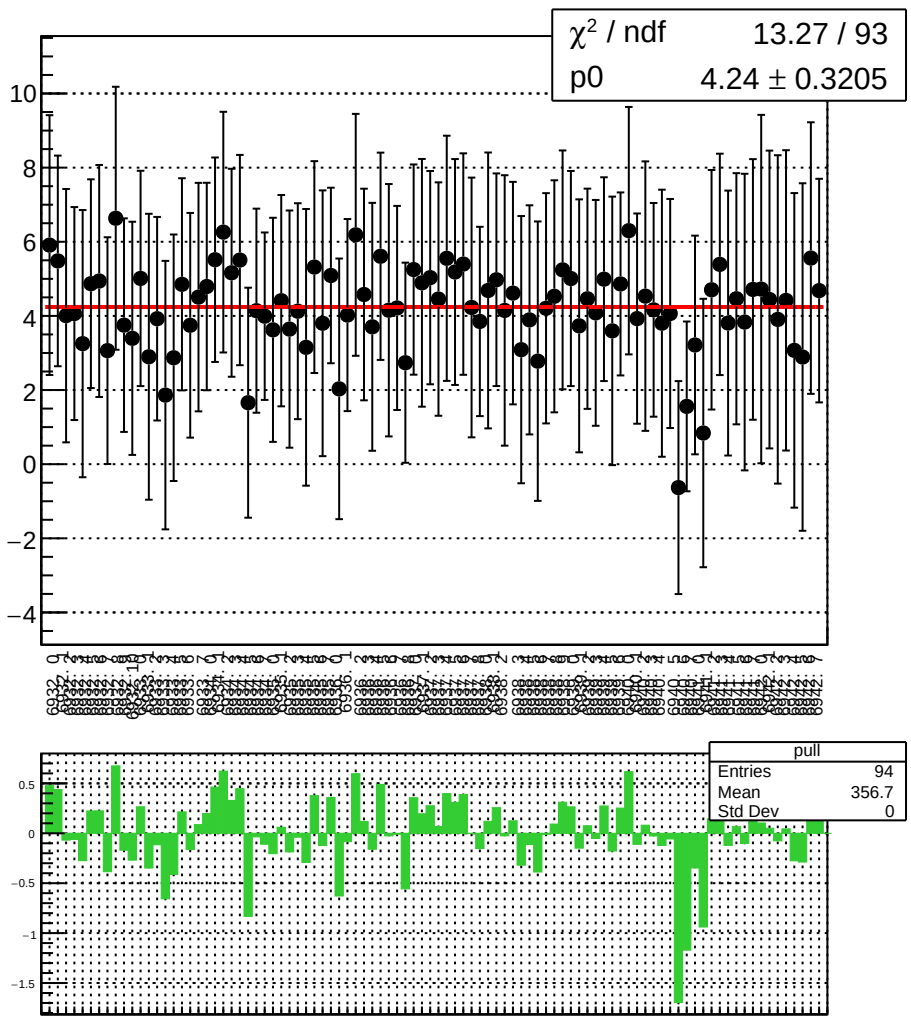

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 3.576 / 93
p0 −0.3608 ± 0.03921
pull
Entries 94
Mean −78.2
Std Dev 0
pull1D
Entries 94
Mean 0.003761
Std Dev 0.195

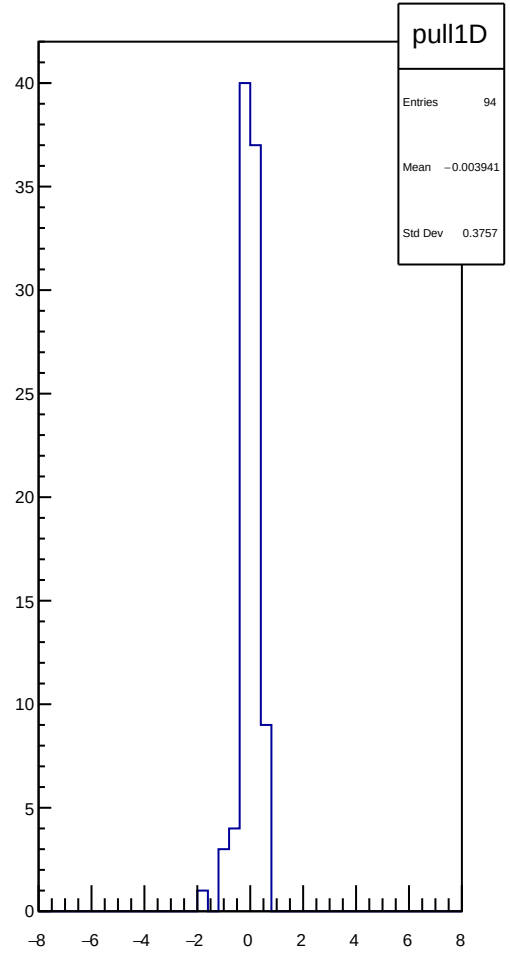

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 32.12 / 93
p0 −10.23 ± 0.4139
0
−5
−10
−15
−20
pull
Entries 94
Mean −6.425
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 94
Mean 0.03782
Std Dev 0.5834
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

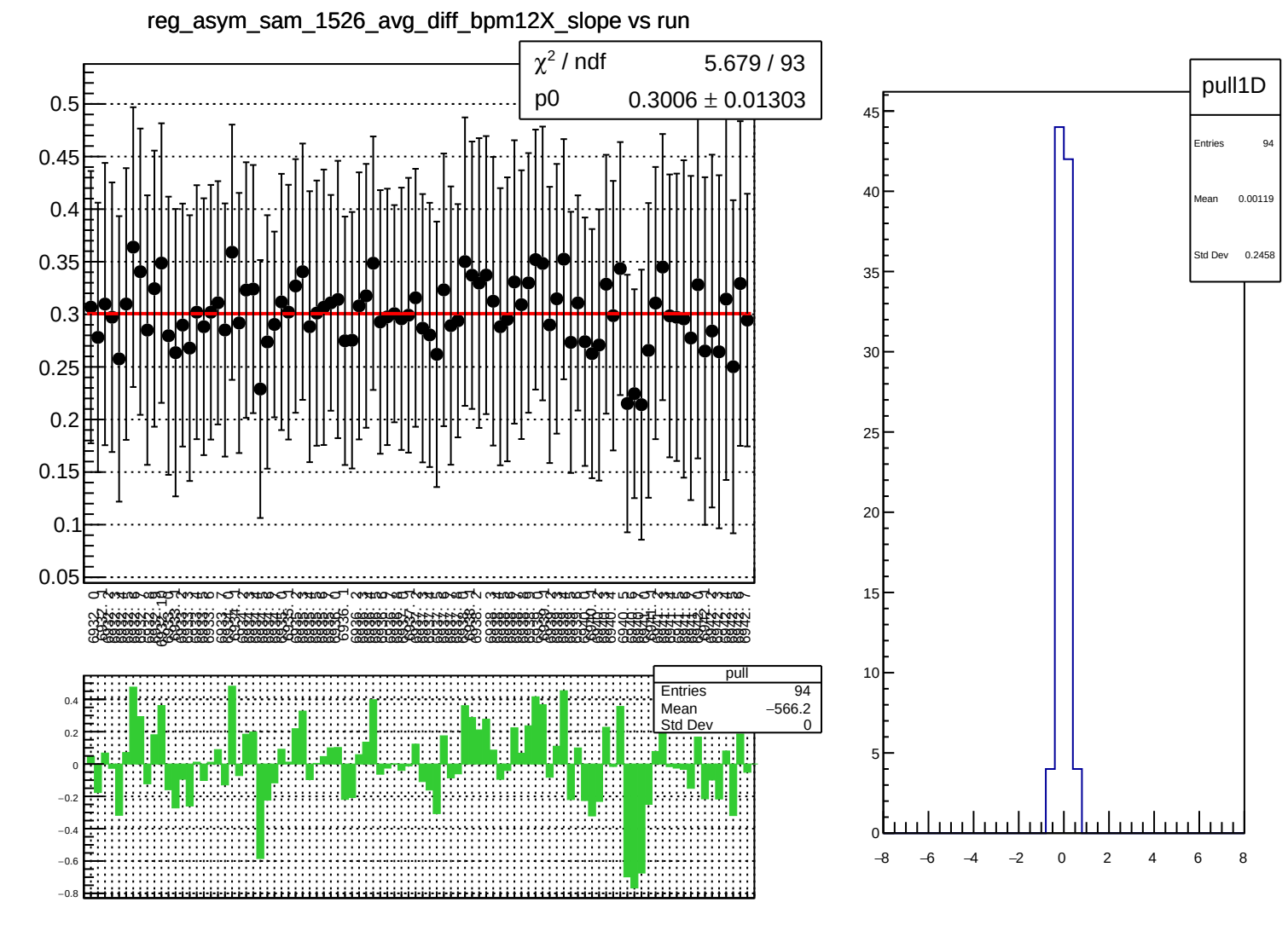

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.17 / 93
p0 3.325 ± 0.2773
pull
Entries 94
Mean −172
Std Dev 0
pull1D
Entries 94
Mean −0.008945
Std Dev 0.3445

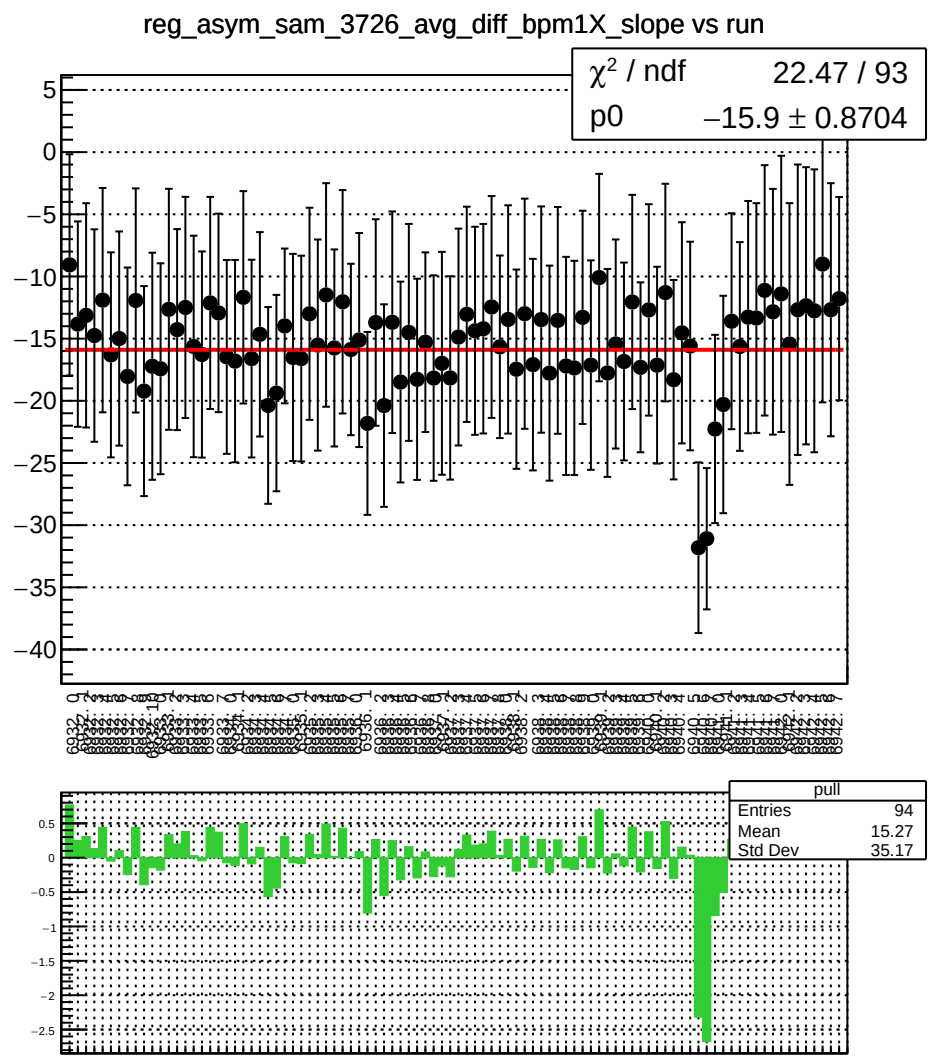

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 39.78 / 93
p0 −25.04 ± 0.3837
−15
−20
−25
−30
−35
pull
Entries 94
Mean −15.38
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

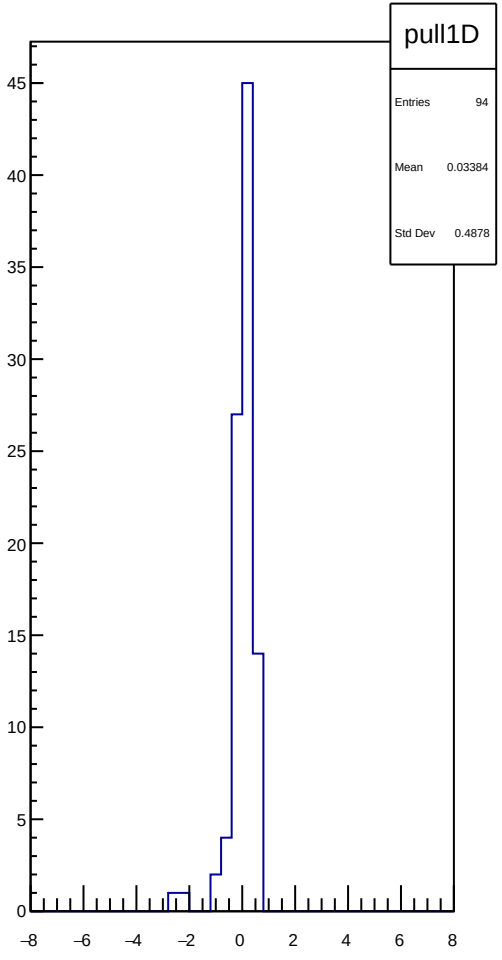

pull1D
Entries 94
Mean −0.04417
Std Dev 0.649
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

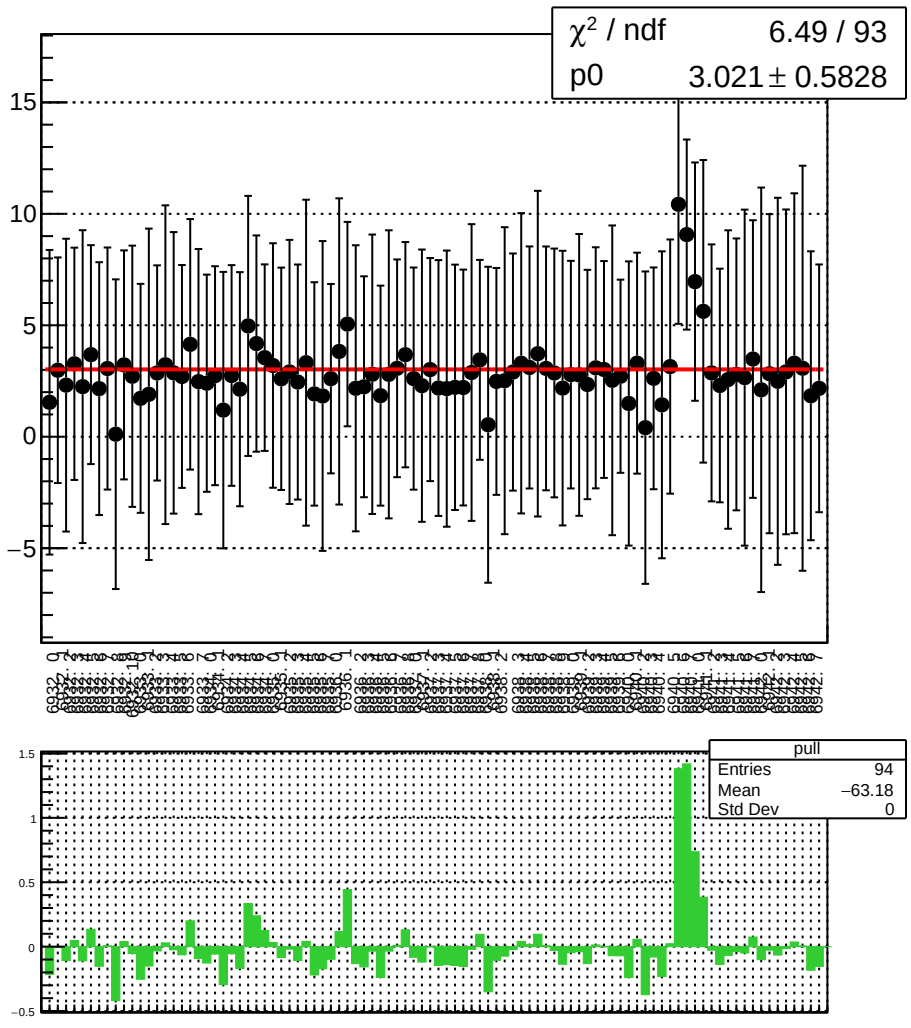

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.27 / 93
p0 4.24 ± 0.3205
pull
Entries 94
Mean 356.7
Std Dev 0

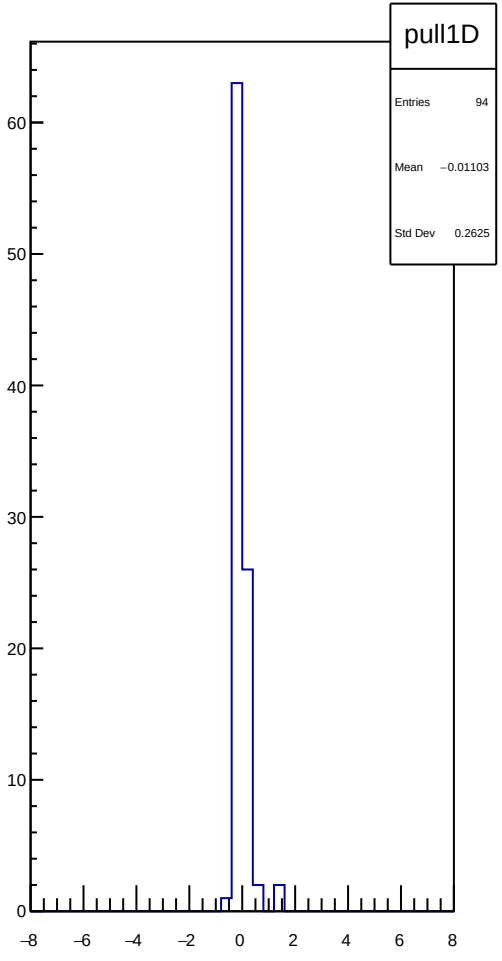

pull1D
Entries 94
Mean −0.003941
Std Dev 0.3757

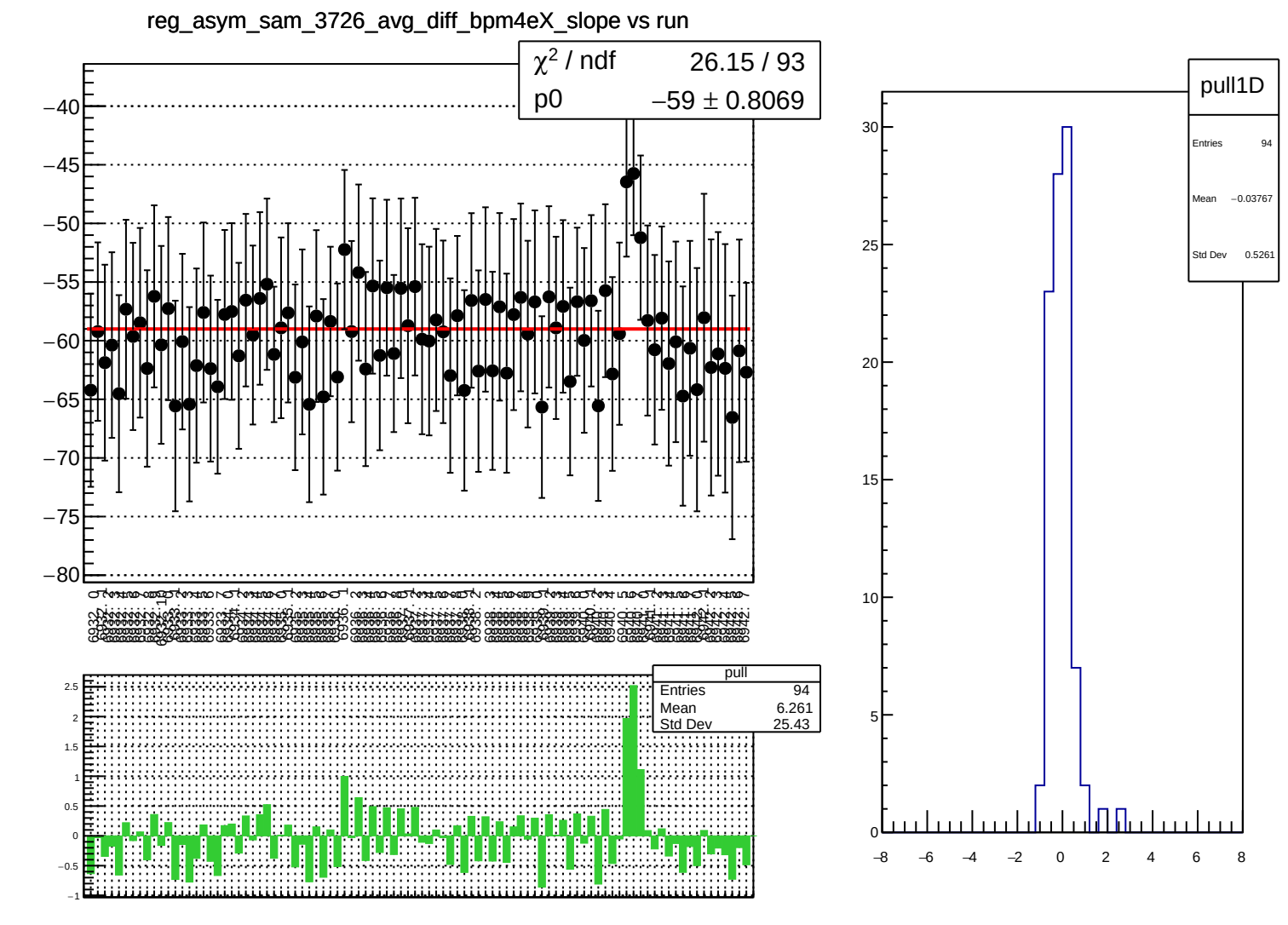

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 5.679 / 93
p0 0.3006 ± 0.01303
pull
Entries 94
Mean −566.2
Std Dev 0
pull1D
Entries 94
Mean 0.00119
Std Dev 0.2458

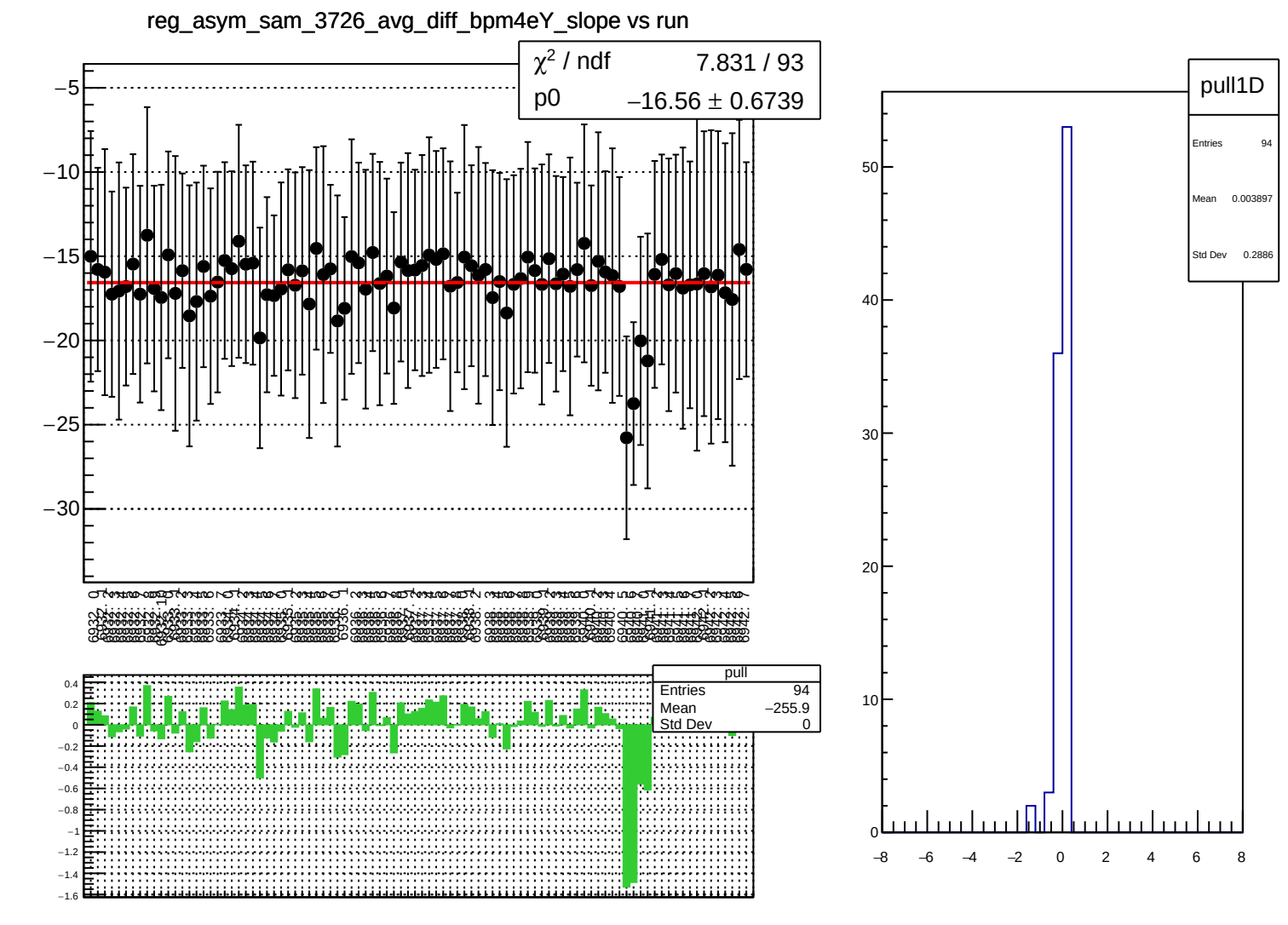

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 22.47 / 93
p0 −15.9 ± 0.8704
pull
Entries 94
Mean 15.27
Std Dev 35.17

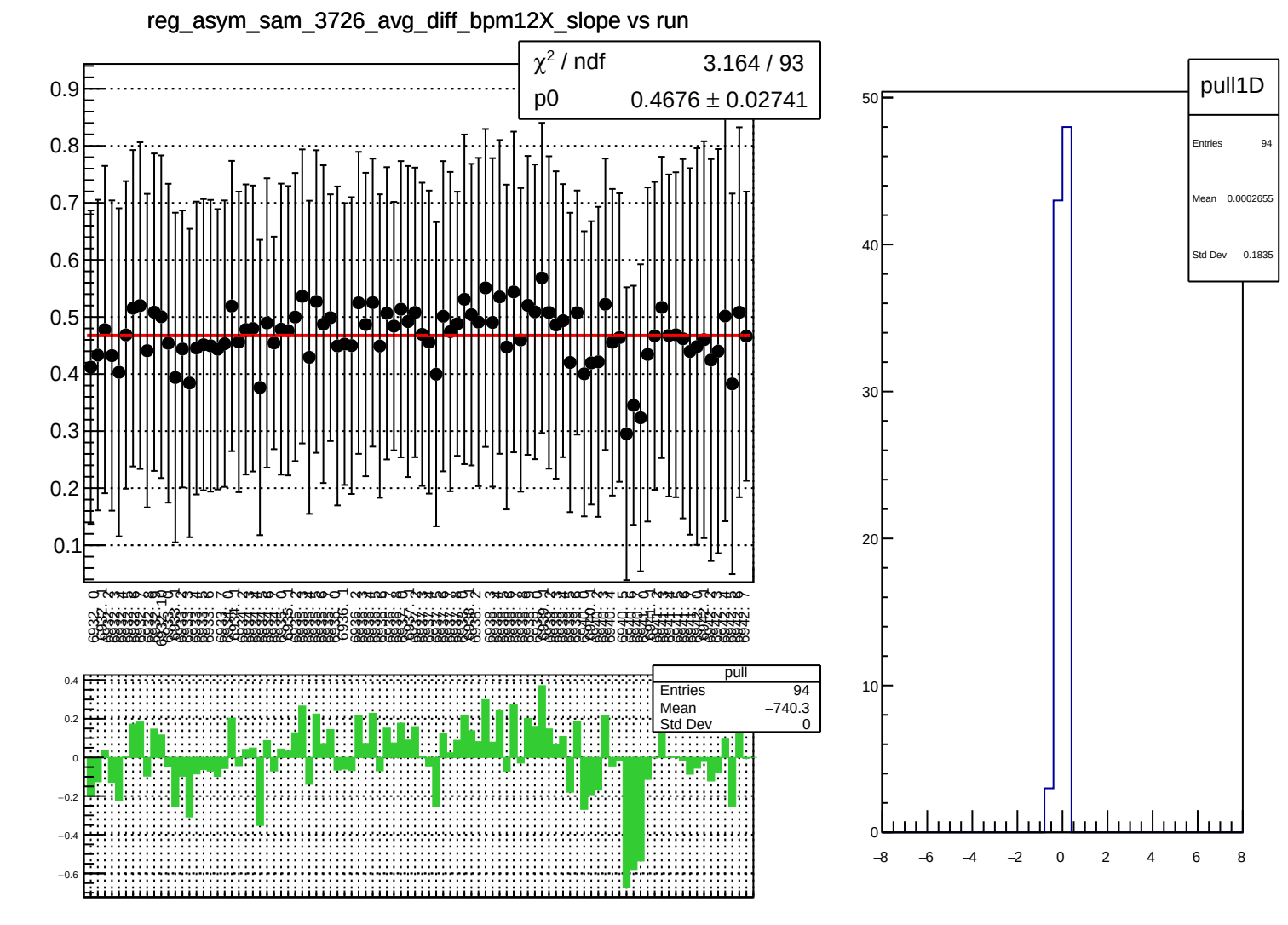

pull1D
Entries 94
Mean 0.03384
Std Dev 0.4878

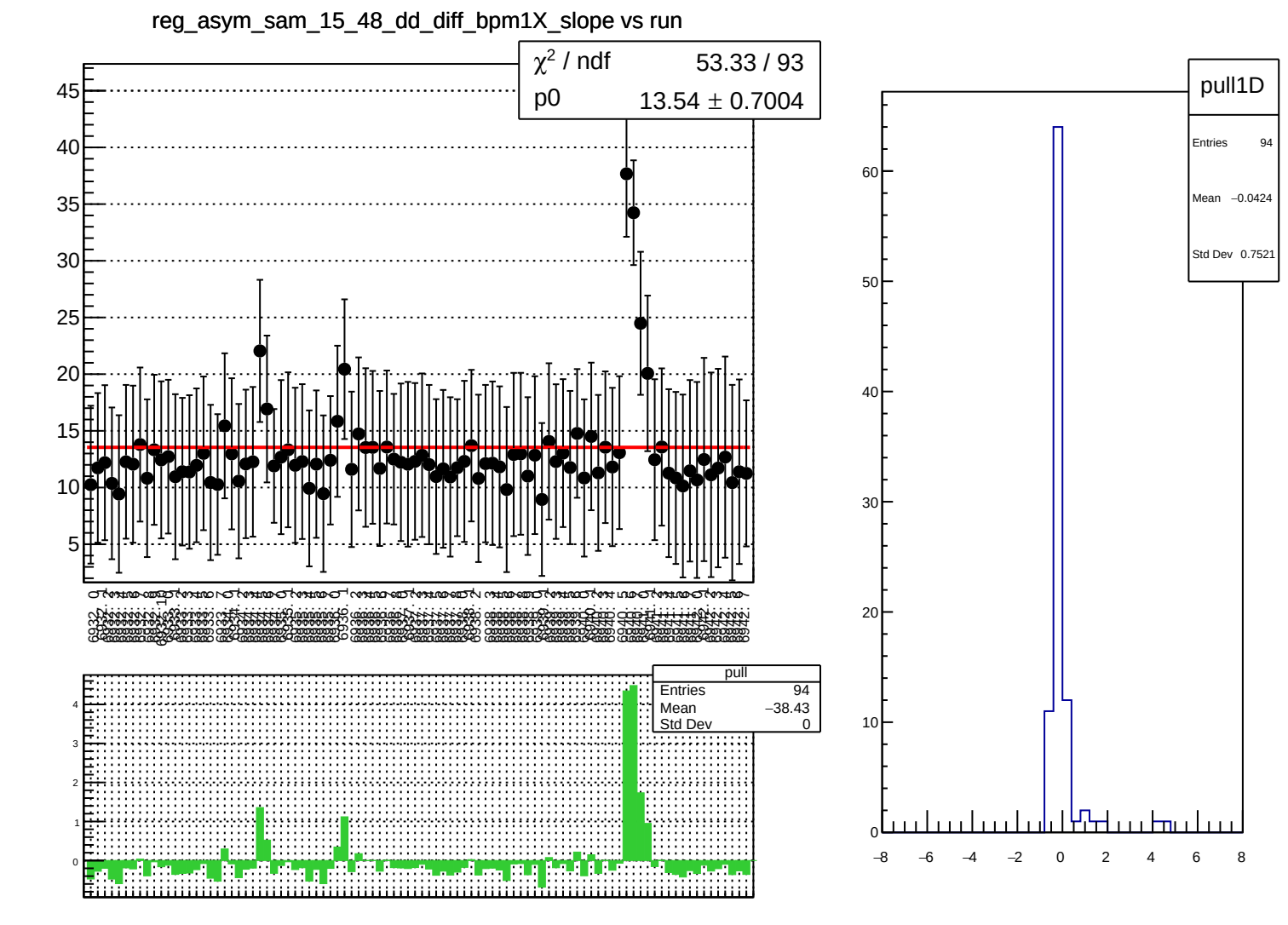

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.49 / 93
p0 3.021 ± 0.5828
pull
Entries 94
Mean −63.18
Std Dev 0

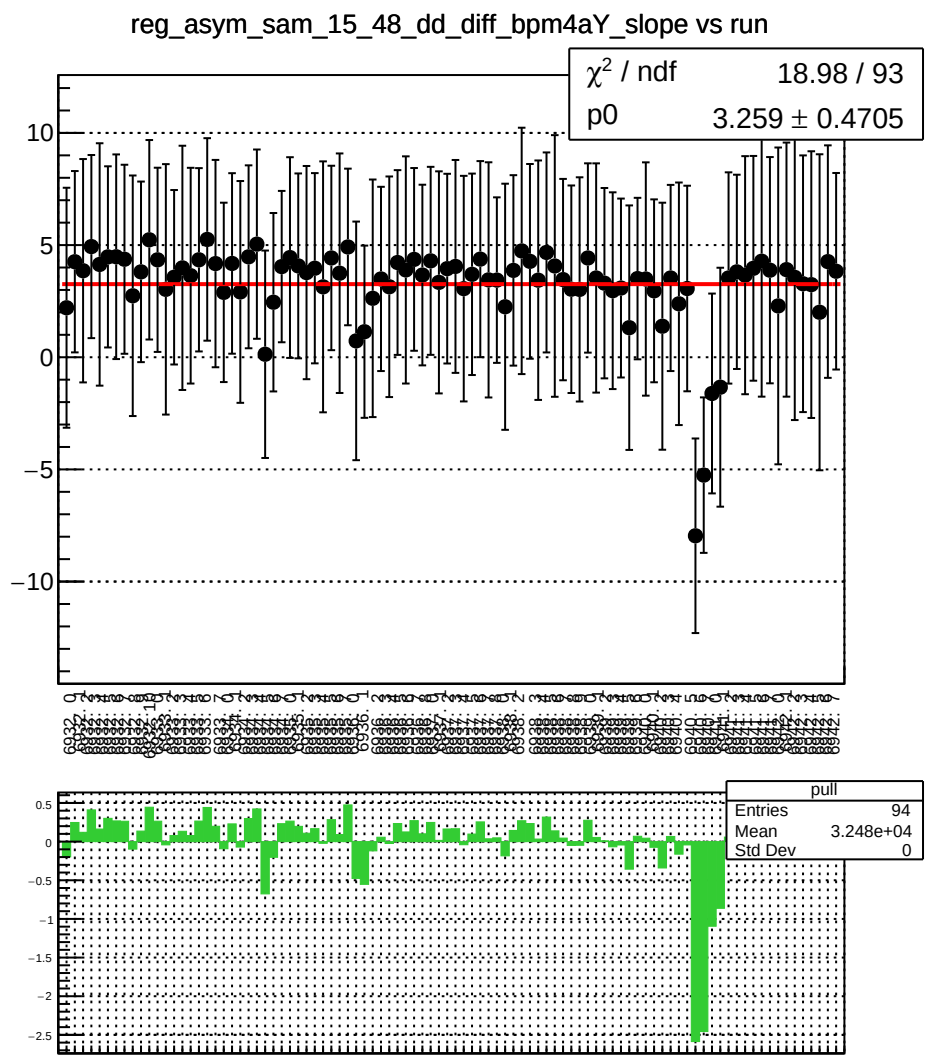

pull1D
Entries 94
Mean −0.01103
Std Dev 0.2625

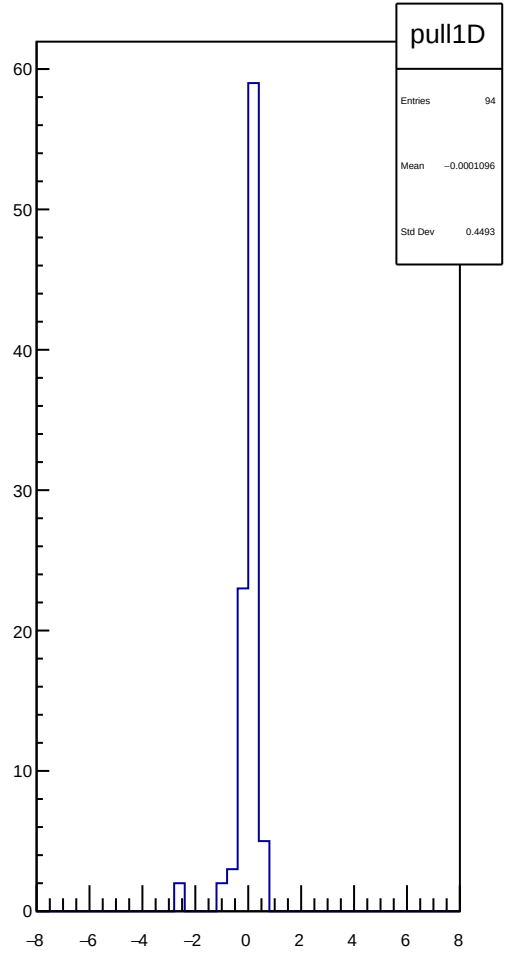

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.15 / 93
p0 −59 ± 0.8069
pull
Entries 94
Mean 6.261
Std Dev 25.43
pull1D
Entries 94
Mean −0.03767
Std Dev 0.5261

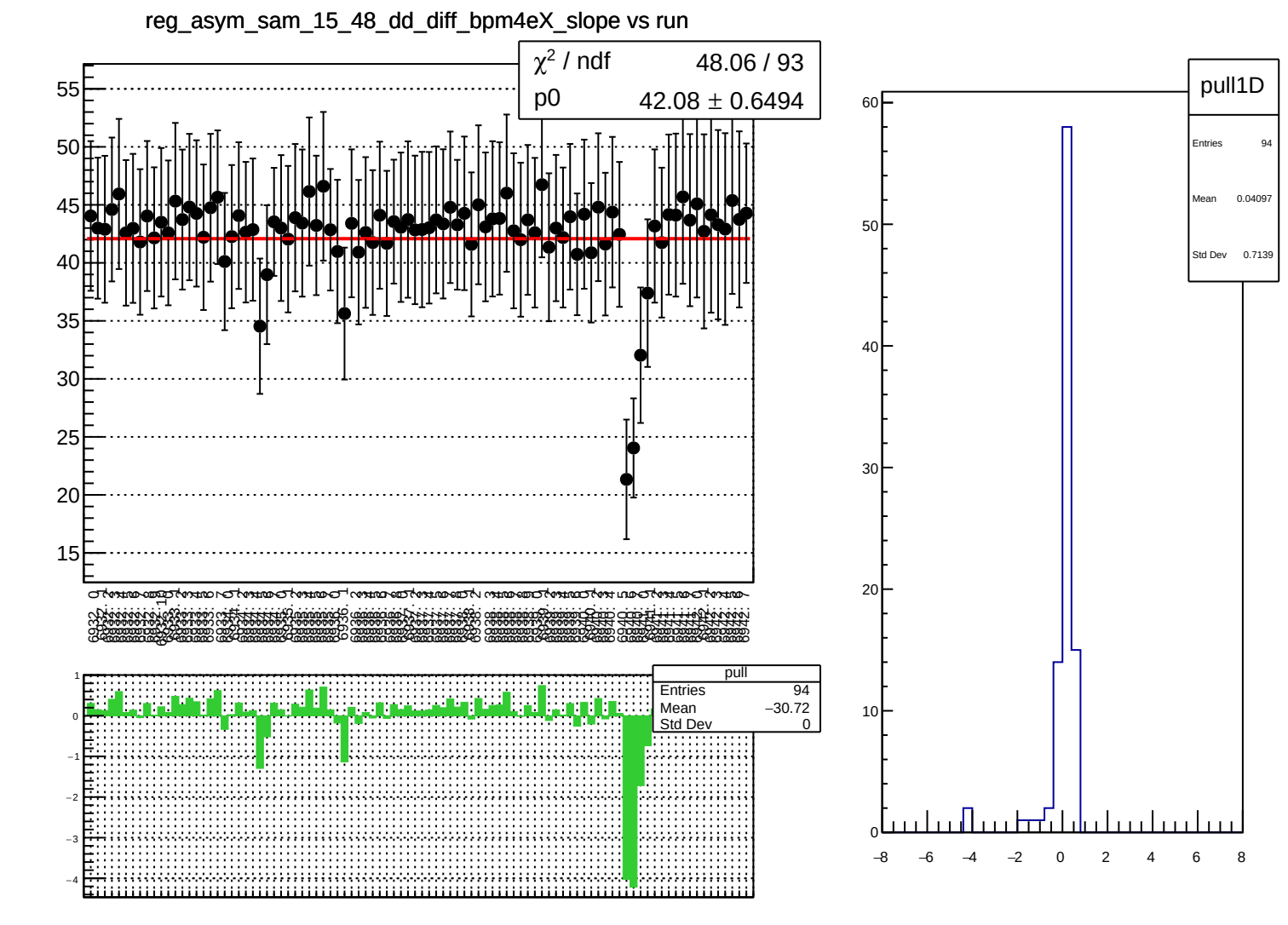

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.831 / 93
p0 −16.56 ± 0.6739
pull
Entries 94
Mean −255.9
Std Dev 0
pull1D
Entries 94
Mean 0.003897
Std Dev 0.2886

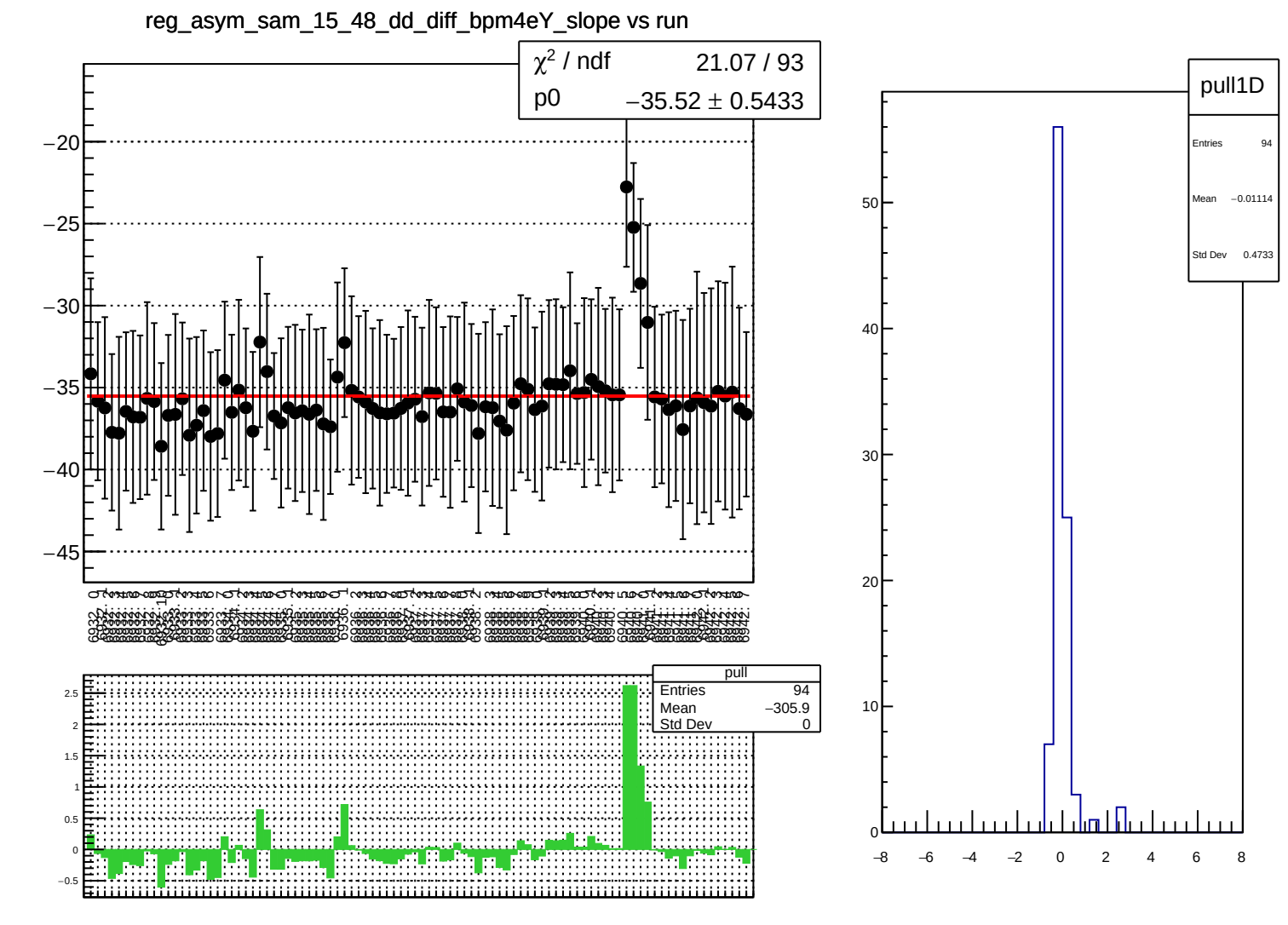

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 3.164 / 93
p0 0.4676 ± 0.02741
pull
Entries 94
Mean −740.3
Std Dev 0
pull1D
Entries 94
Mean 0.0002655
Std Dev 0.1835

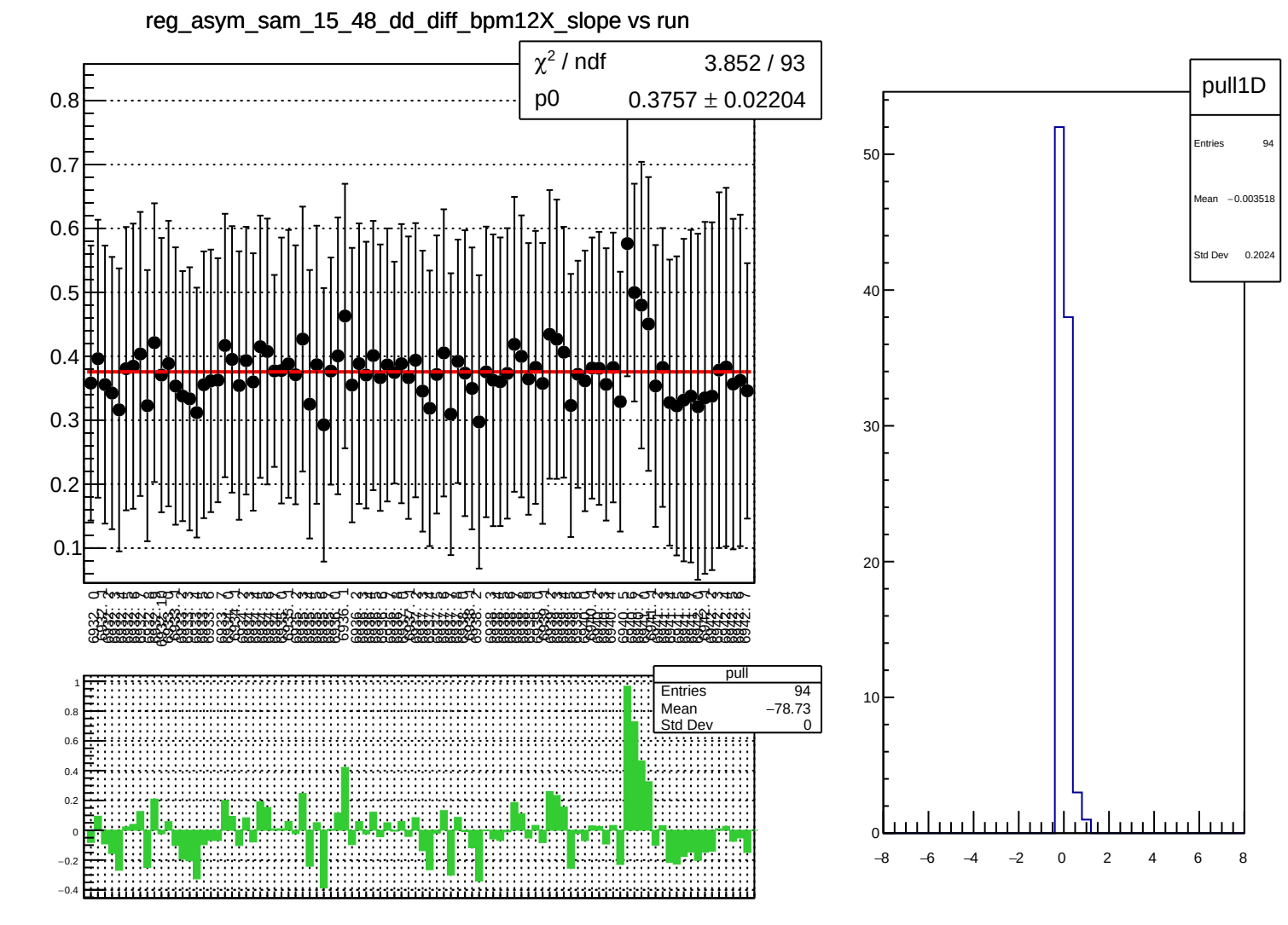

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 53.33 / 93
p0 13.54 ± 0.7004
pull
Entries 94
Mean −38.43
Std Dev 0
pull1D
Entries 94
Mean −0.0424
Std Dev 0.7521

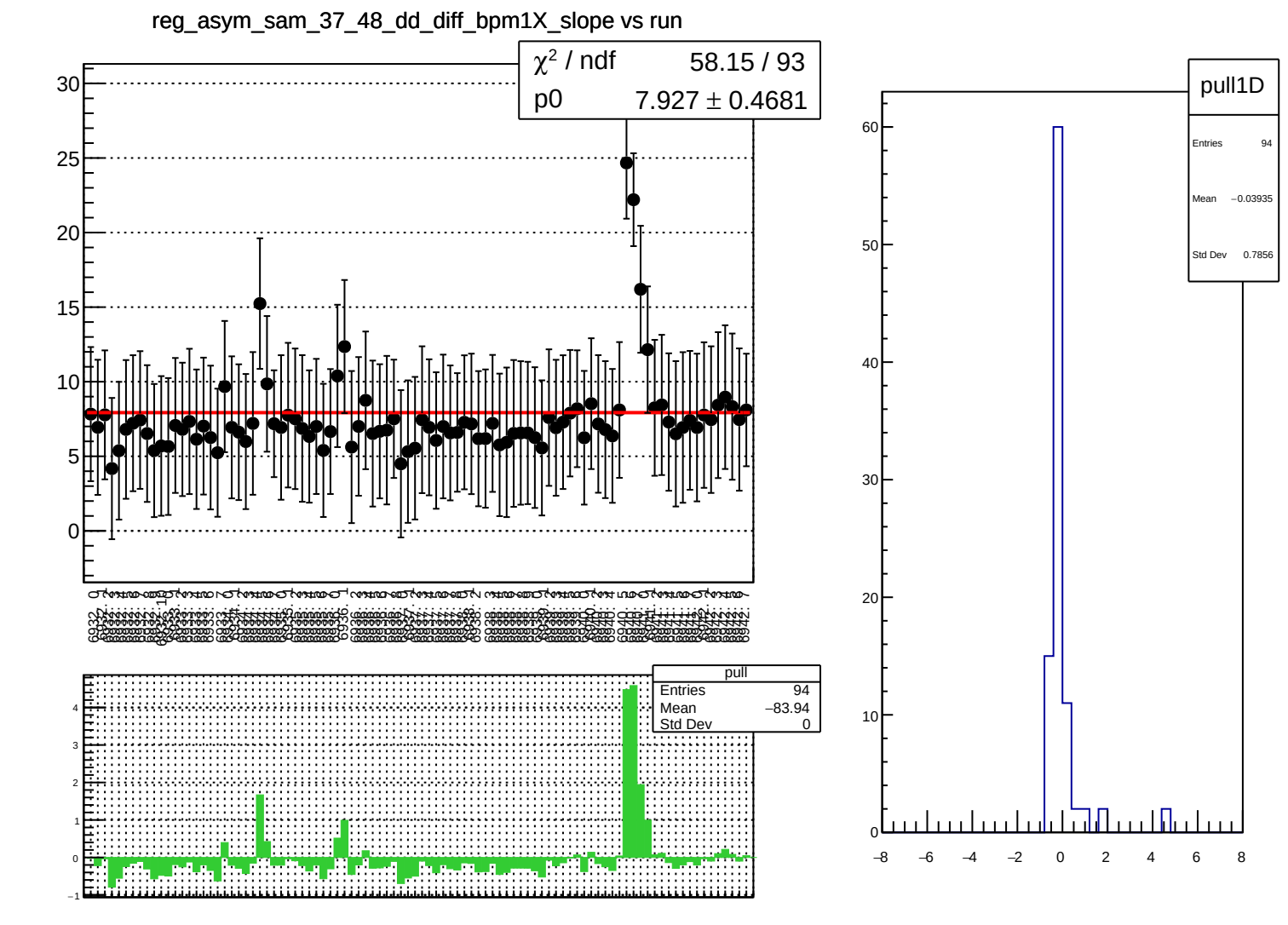

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.98 / 93
p0 3.259 ± 0.4705
pull
Entries 94
Mean 3.248e+04
Std Dev 0

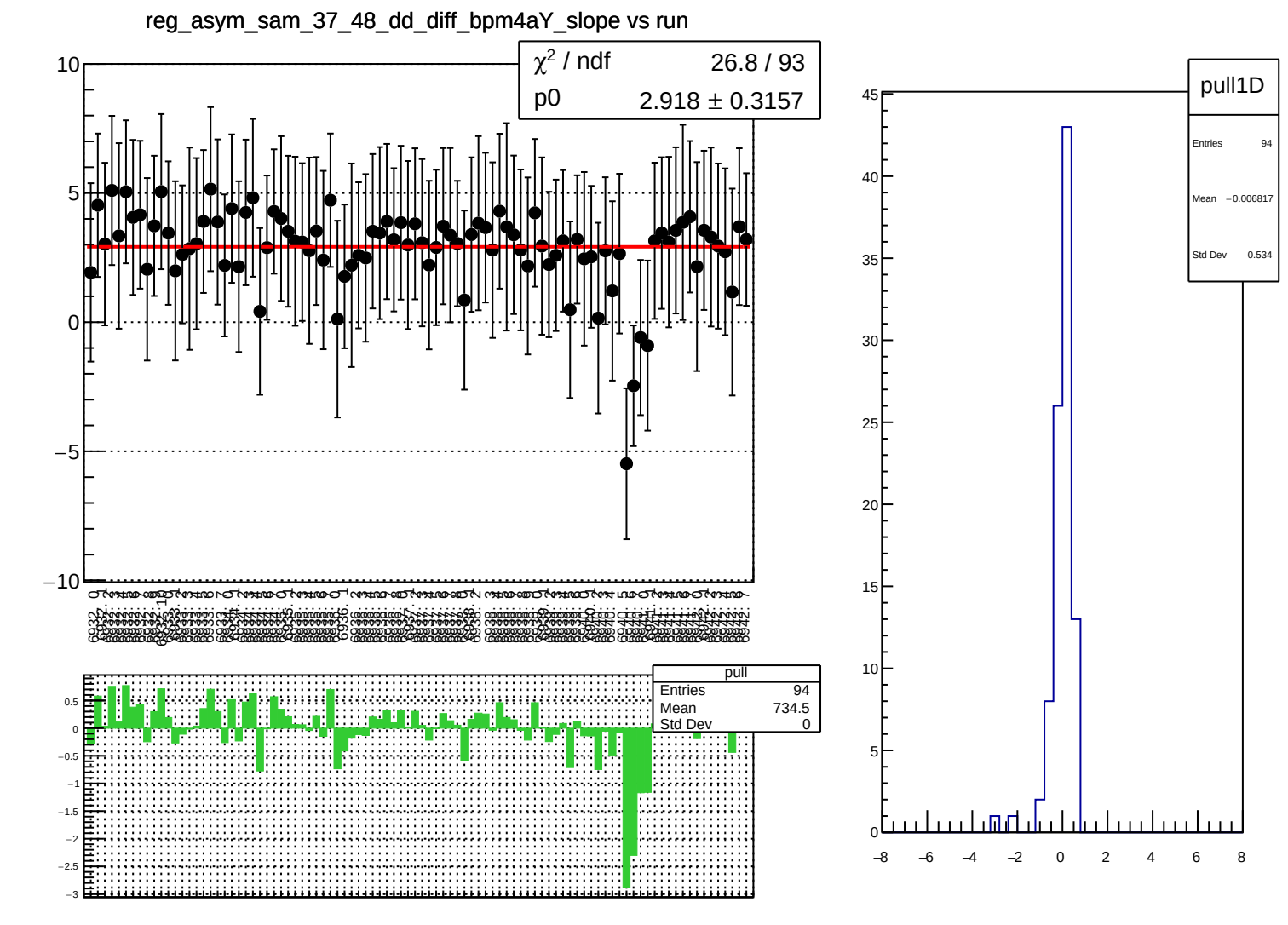

pull1D
Entries 94
Mean −0.0001096
Std Dev 0.4493

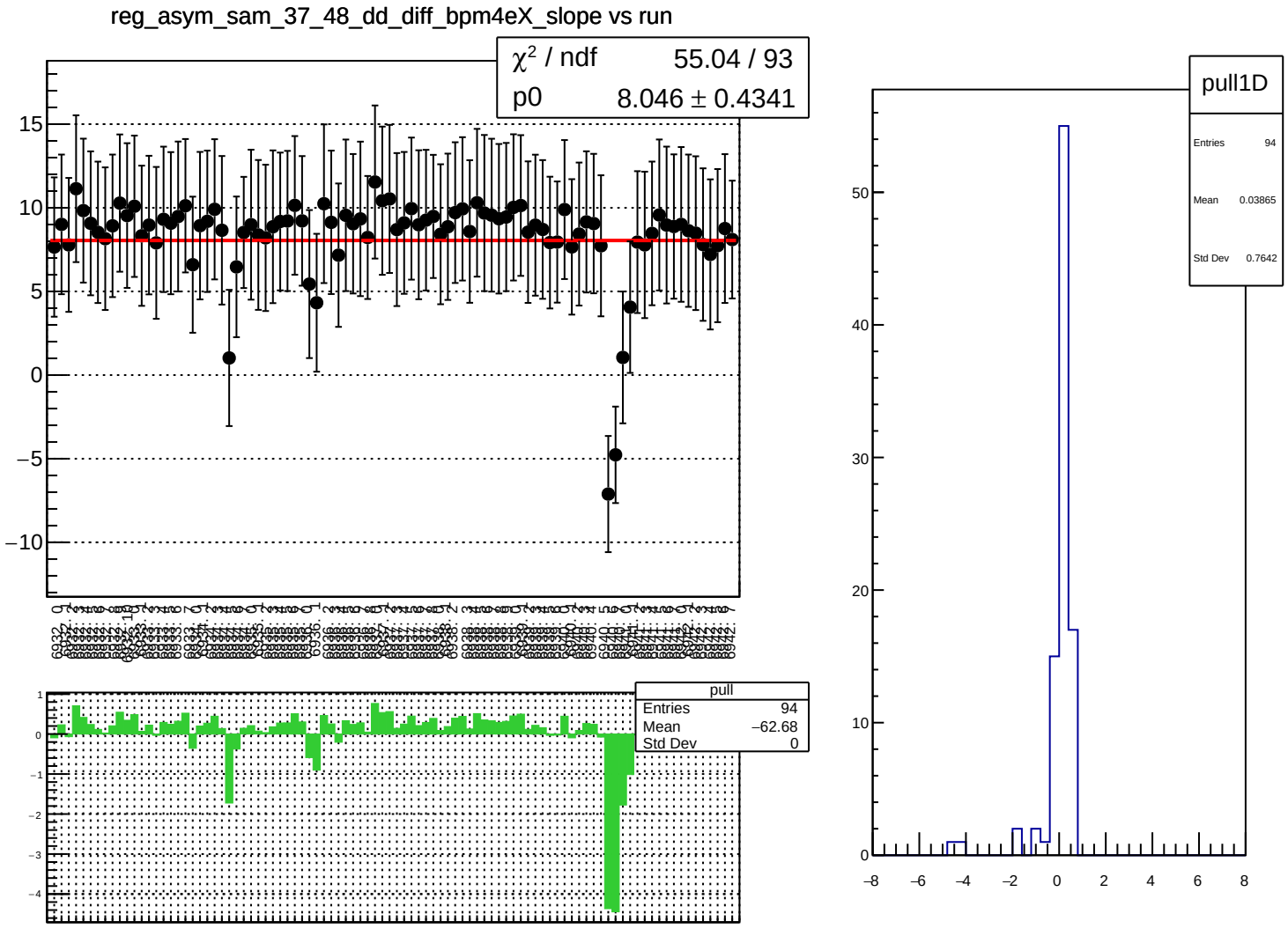

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 48.06 / 93
p0 42.08 ± 0.6494
pull
Entries 94
Mean −30.72
Std Dev 0
pull1D
Entries 94
Mean 0.04097
Std Dev 0.7139

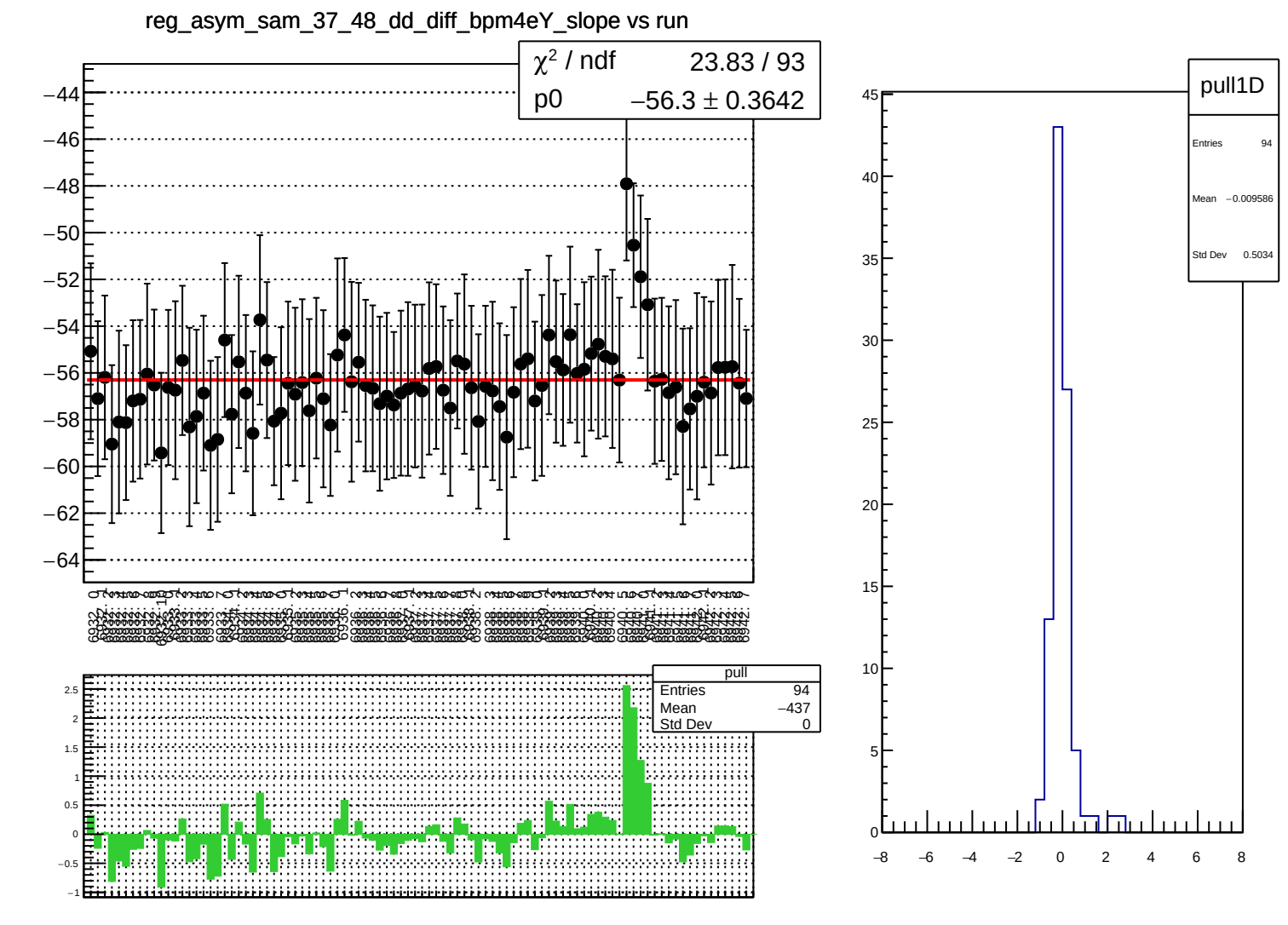

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.07 / 93
p0 −35.52 ± 0.5433
pull
Entries 94
Mean −305.9
Std Dev 0
pull1D
Entries 94
Mean −0.01114
Std Dev 0.4733

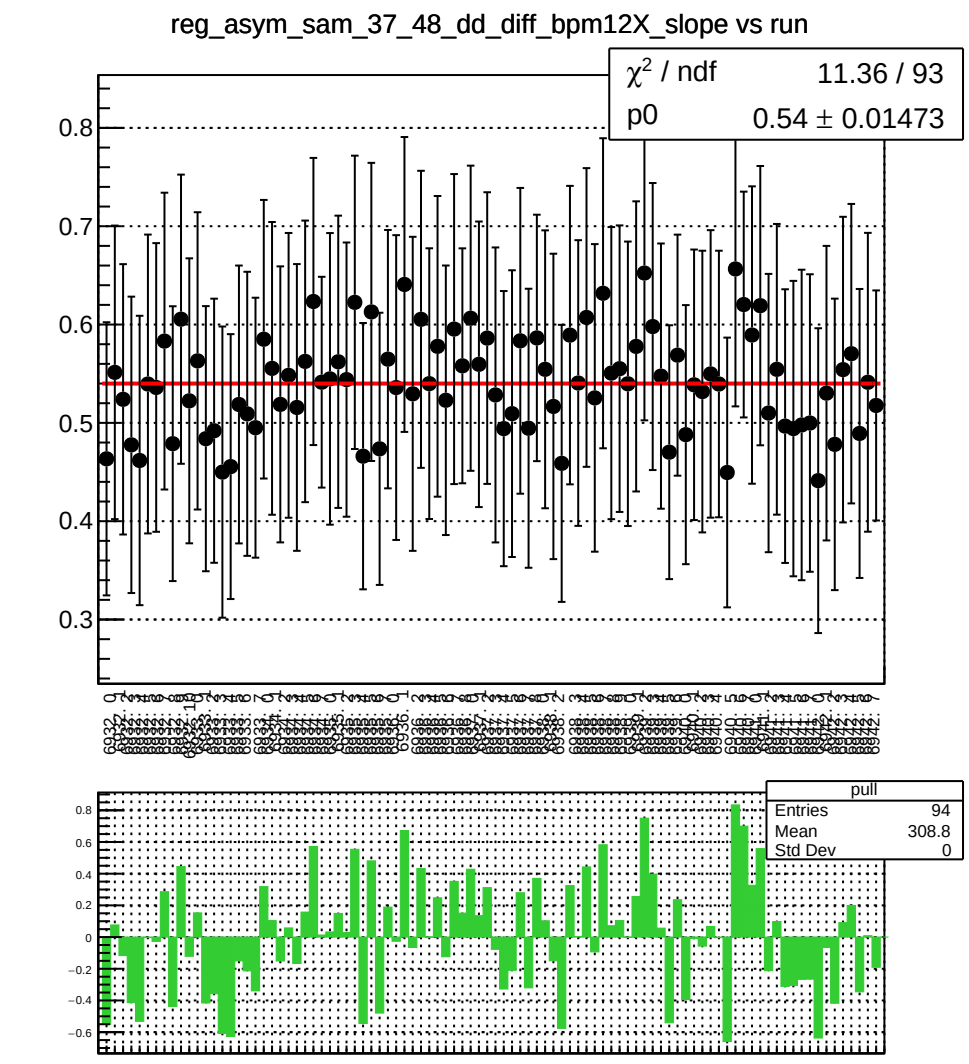

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.852 / 93
p0 0.3757 ± 0.02204
pull
Entries 94
Mean −78.73
Std Dev 0
pull1D
Entries 94
Mean −0.003518
Std Dev 0.2024

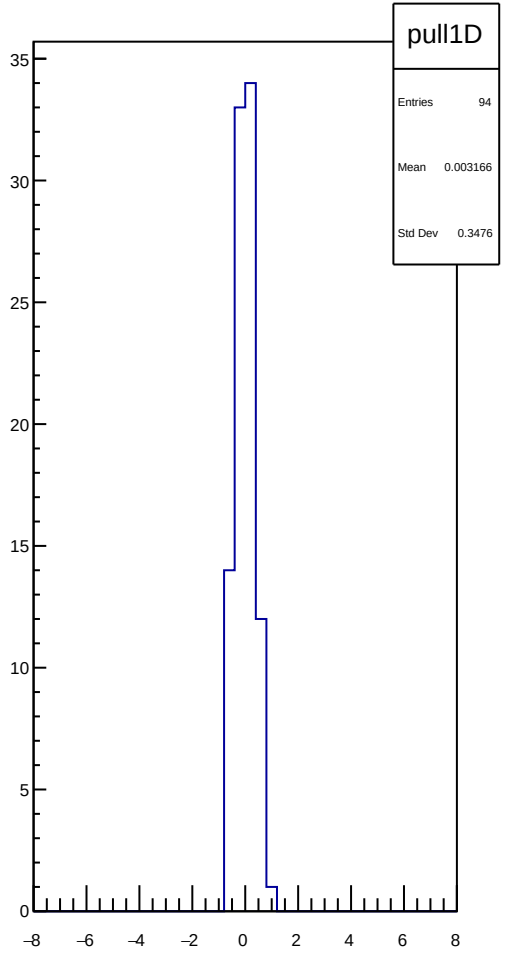

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 58.15 / 93
p0 7.927 ± 0.4681
pull
Entries 94
Mean −83.94
Std Dev 0
pull1D
Entries 94
Mean −0.03935
Std Dev 0.7856

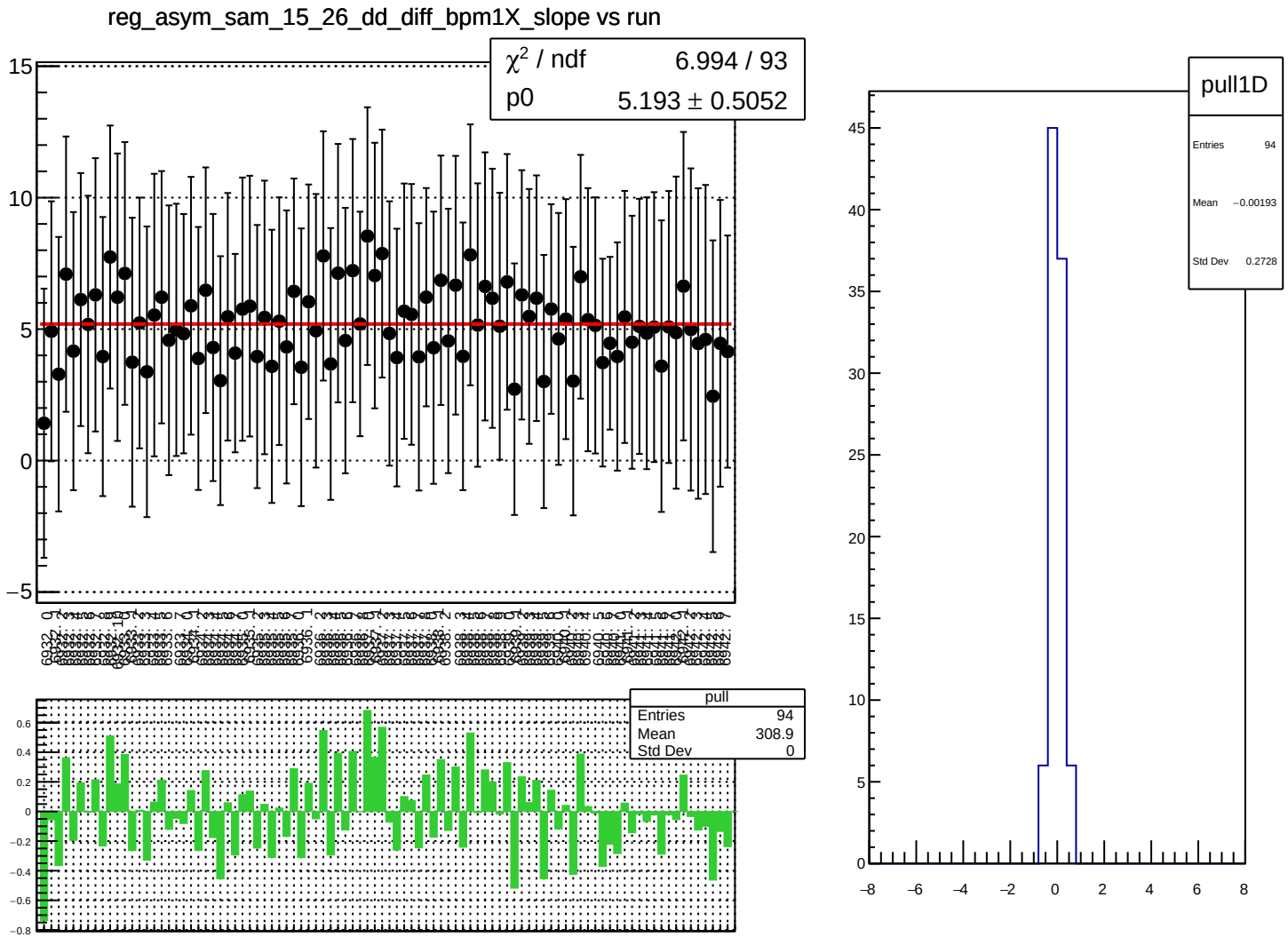

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.8 / 93
p0 2.918 ± 0.3157
pull
Entries 94
Mean 734.5
Std Dev 0
pull1D
Entries 94
Mean −0.006817
Std Dev 0.534

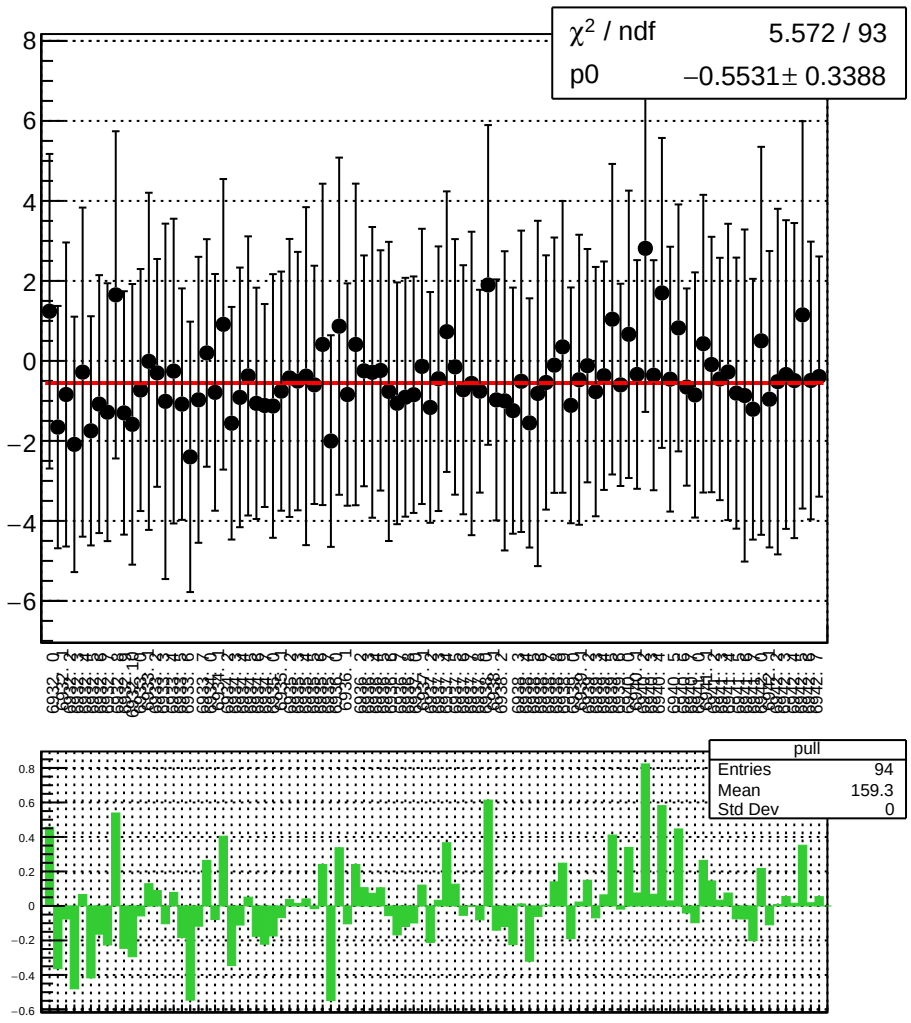

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.04 / 93
p0 8.046 ± 0.4341
pull
Entries 94
Mean −62.68
Std Dev 0
pull1D
Entries 94
Mean 0.03865
Std Dev 0.7642

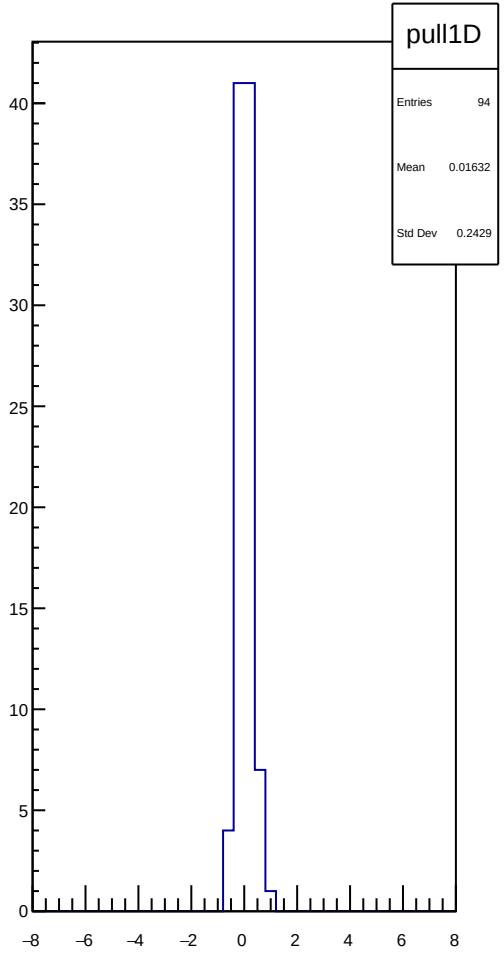

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.83 / 93
p0 −56.3 ± 0.3642
pull
Entries 94
Mean −437
Std Dev 0
pull1D
Entries 94
Mean −0.009586
Std Dev 0.5034

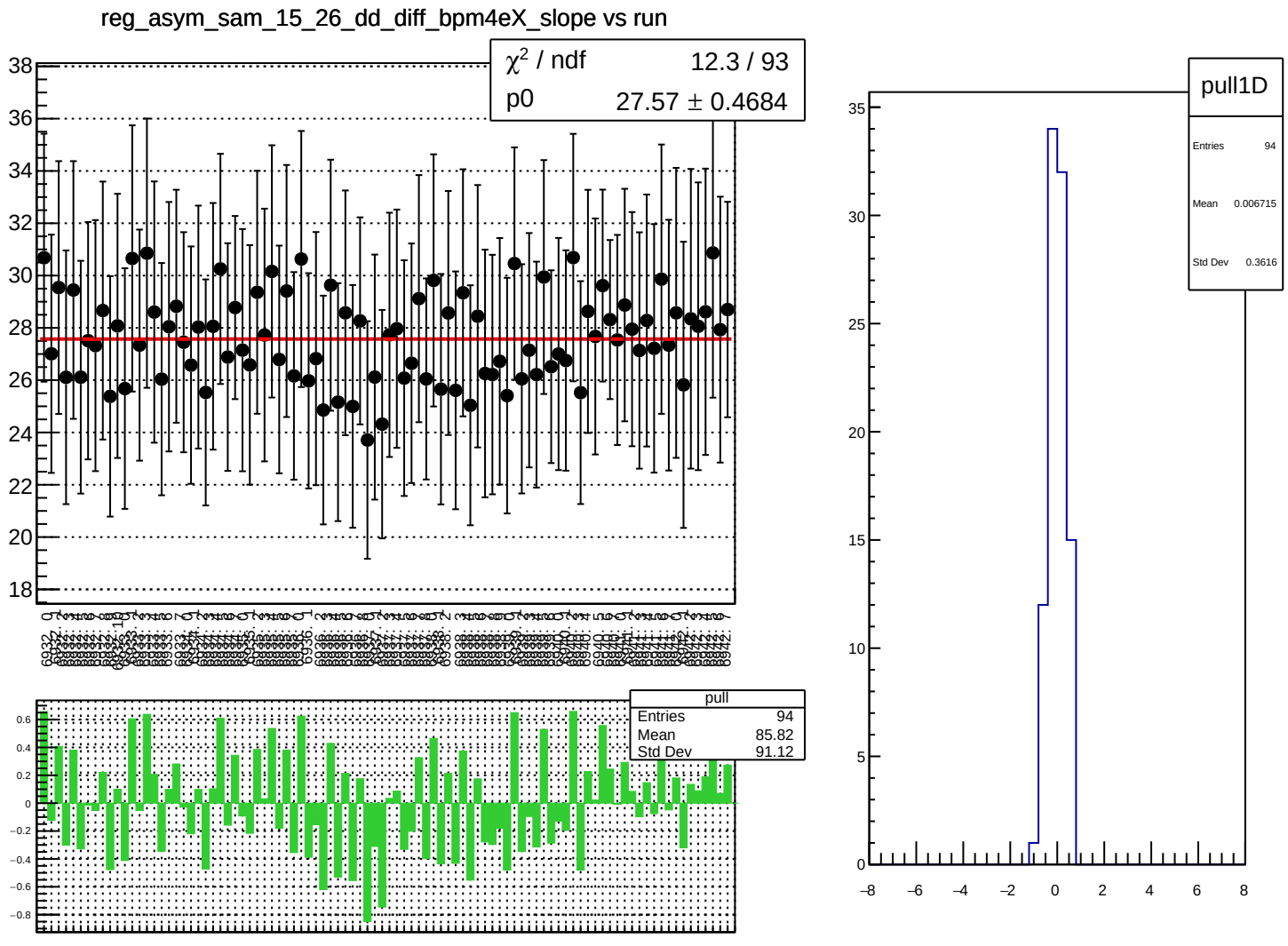

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 11.36 / 93
p0 0.54 ± 0.01473
pull
Entries 94
Mean 308.8
Std Dev 0

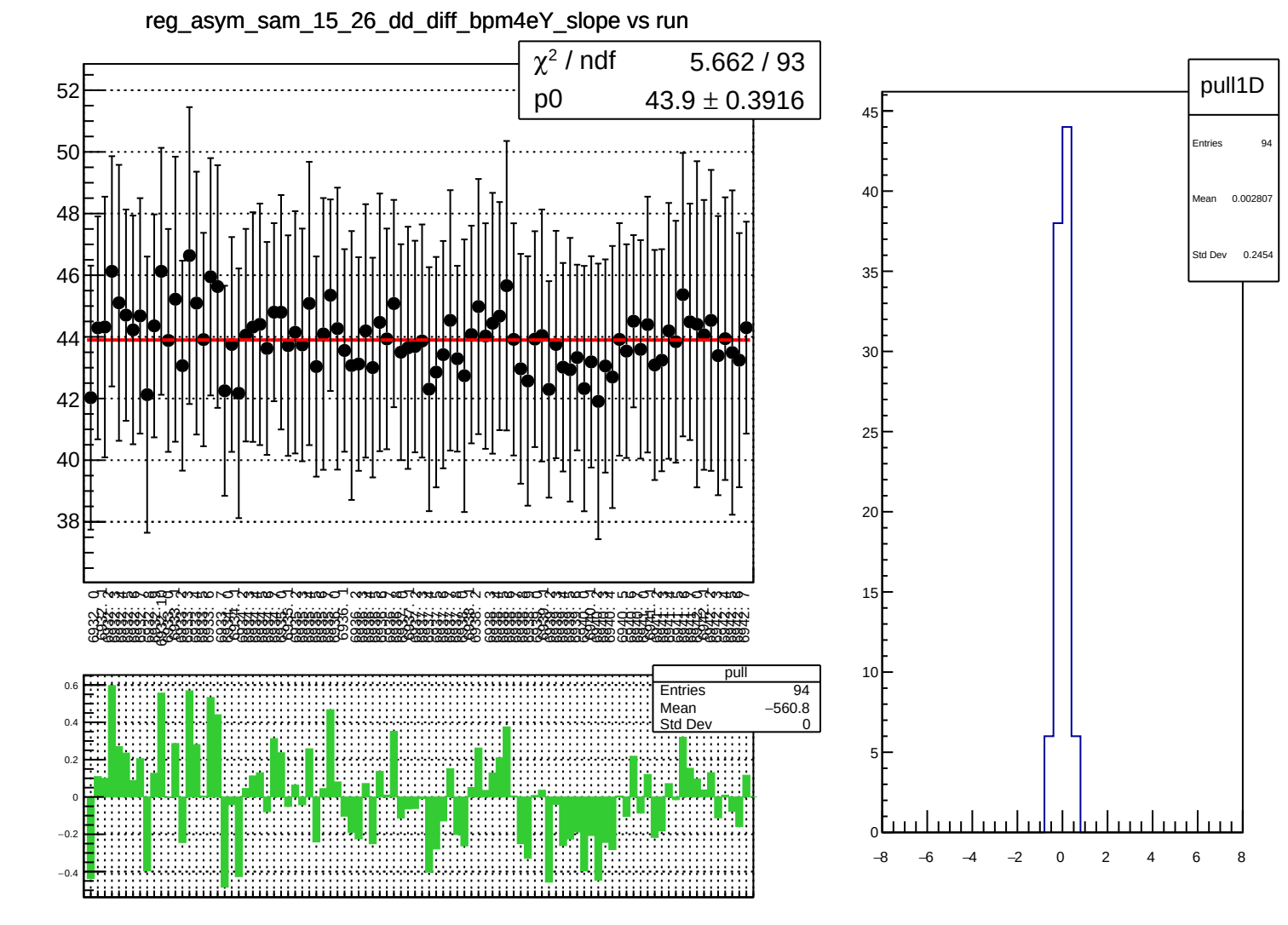

pull1D
Entries 94
Mean 0.003166
Std Dev 0.3476

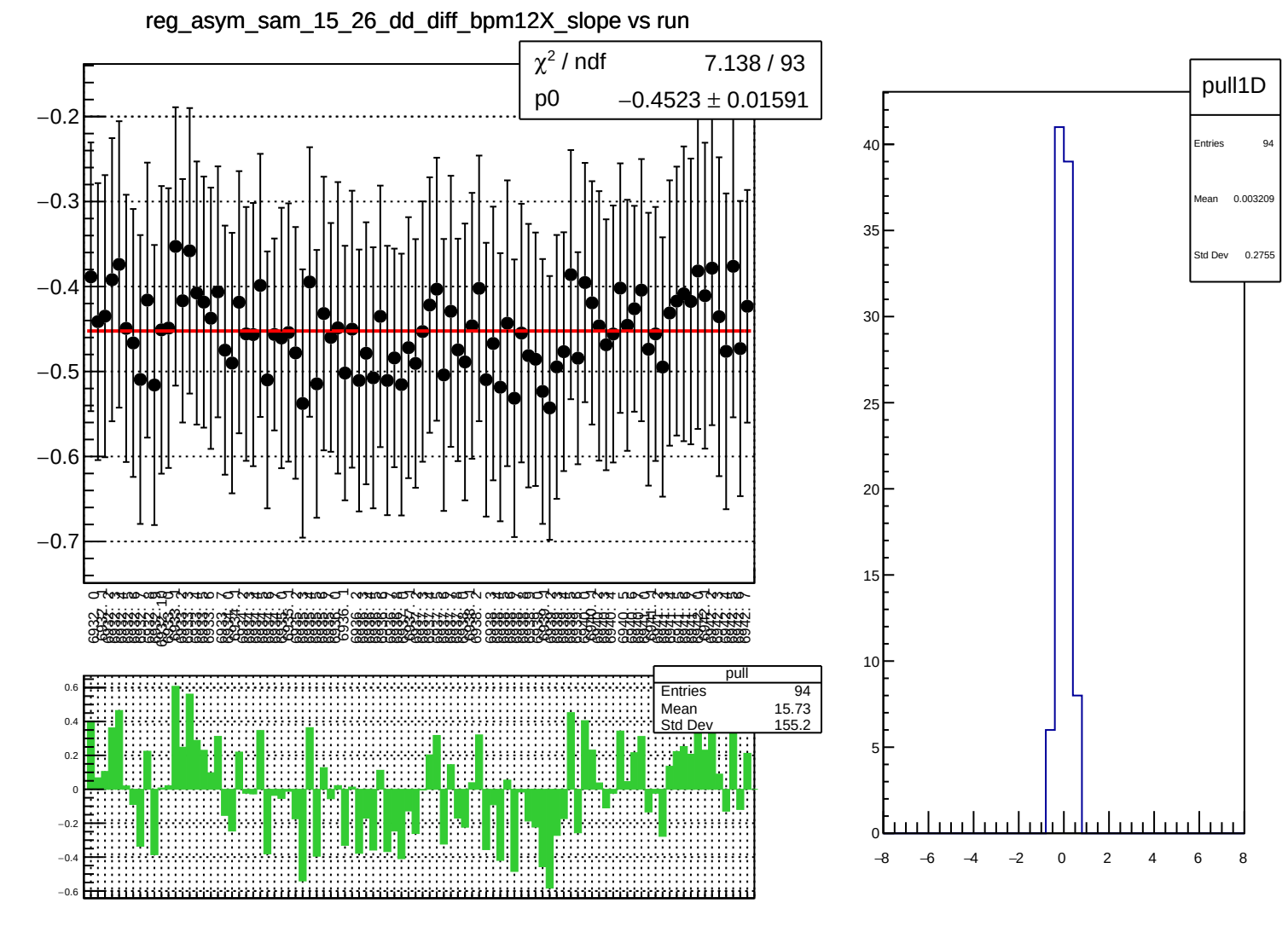

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 6.994 / 93
p0 5.193 ± 0.5052
pull
Entries 94
Mean 308.9
Std Dev 0
pull1D
Entries 94
Mean −0.00193
Std Dev 0.2728

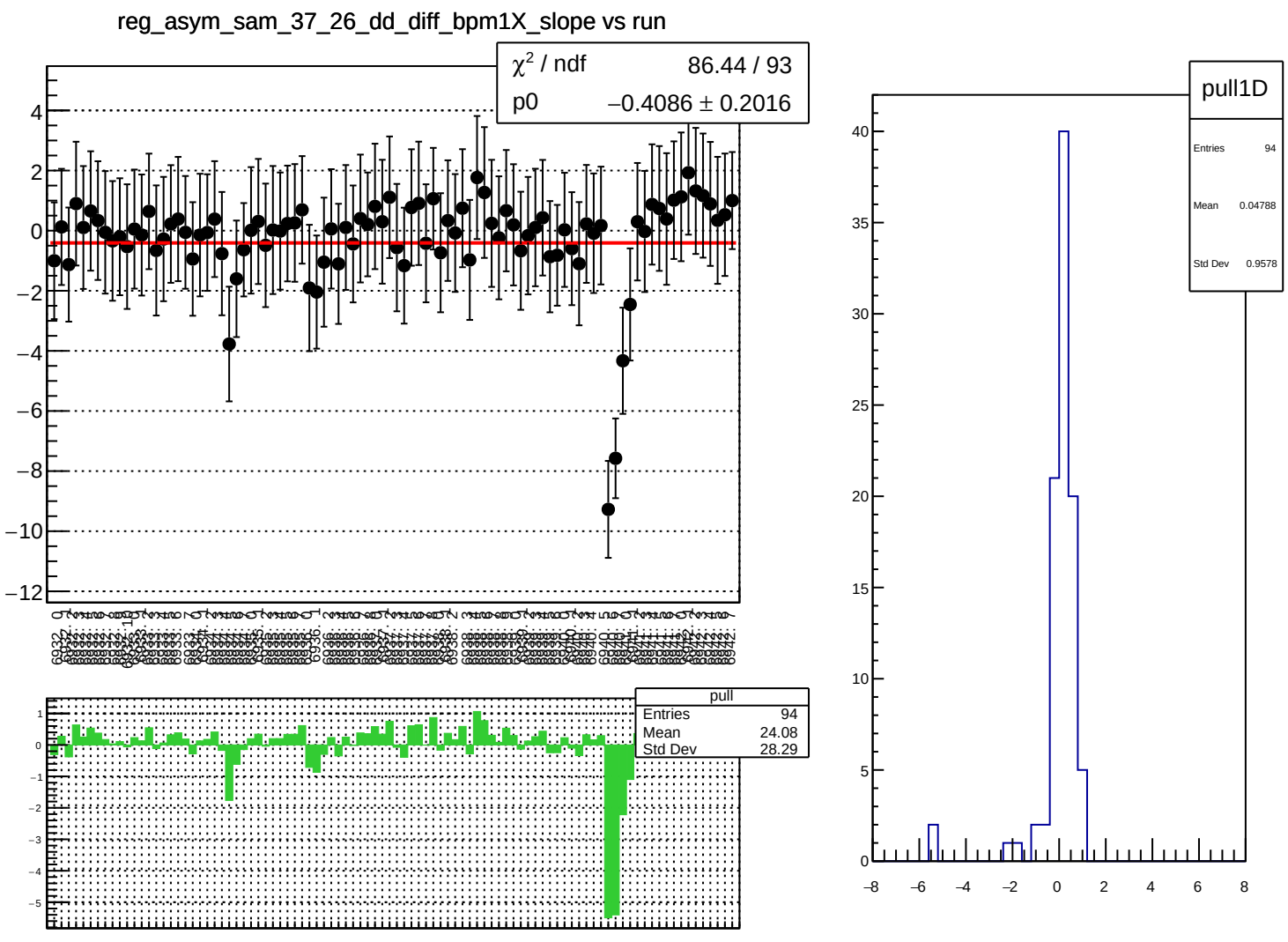

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.572 / 93
p0 −0.5531± 0.3388
pull
Entries 94
Mean 159.3
Std Dev 0

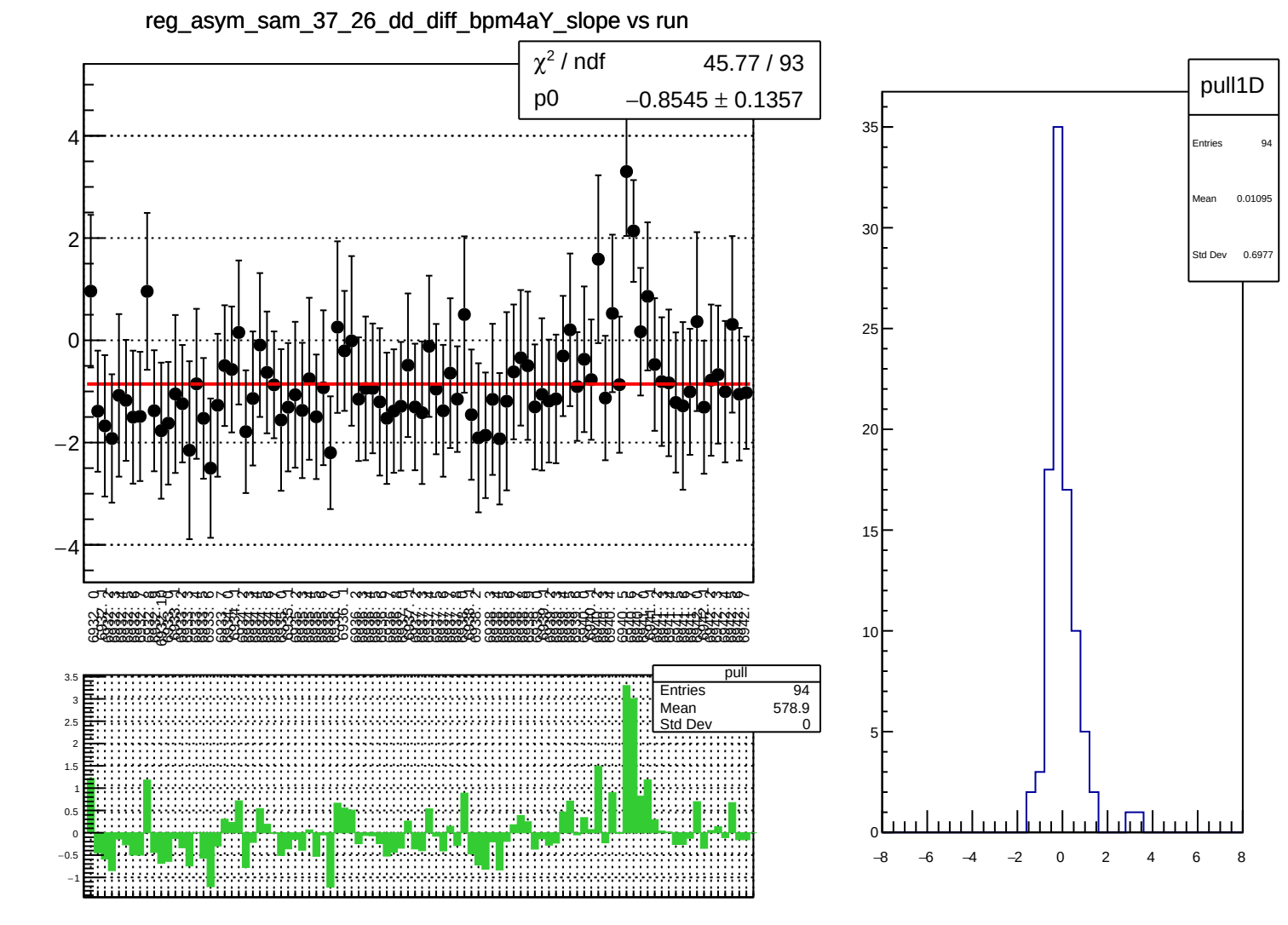

pull1D
Entries 94
Mean 0.01632
Std Dev 0.2429

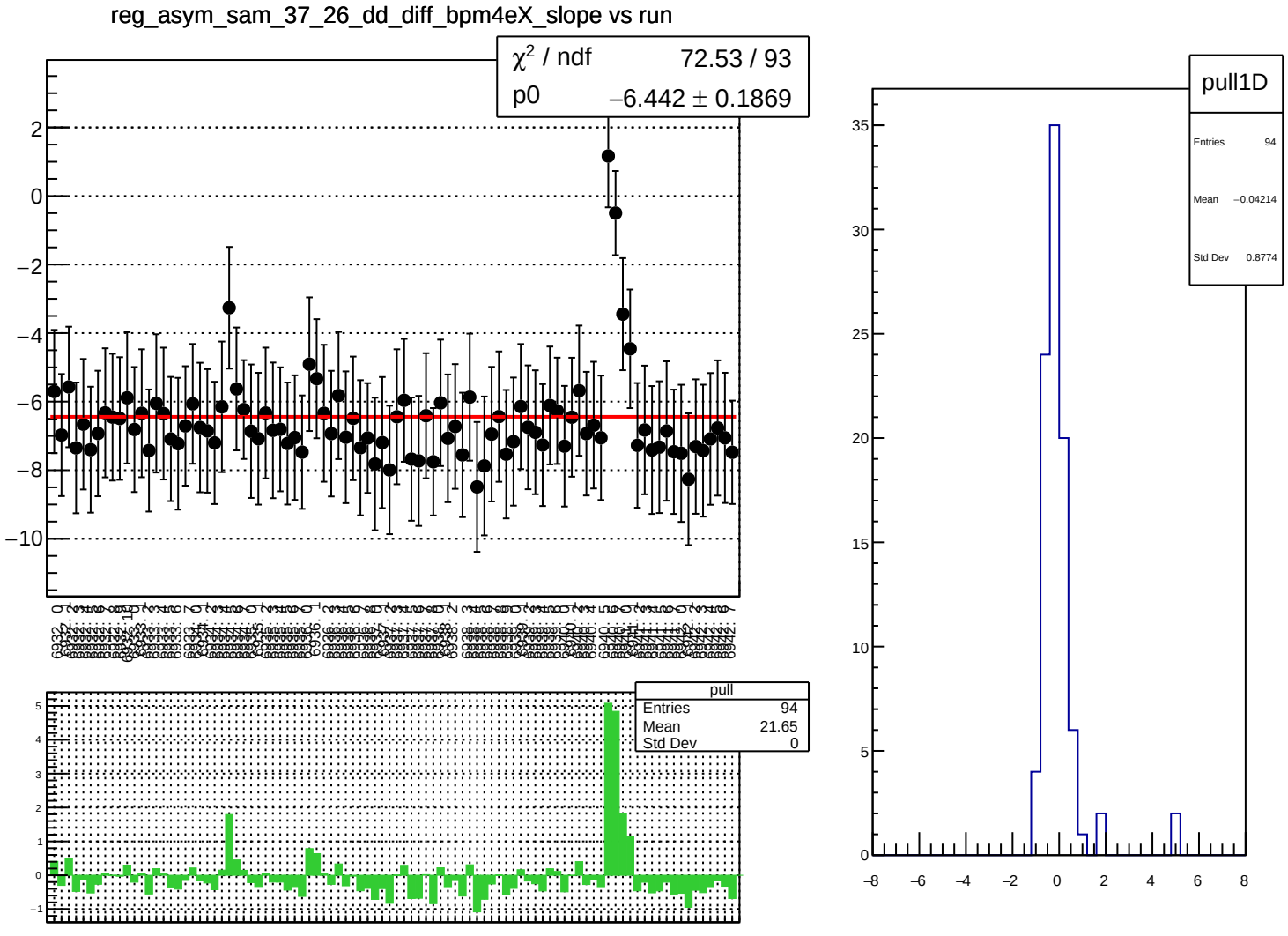

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.3 / 93
p0 27.57 ± 0.4684
pull
Entries 94
Mean 85.82
Std Dev 91.12
pull1D
Entries 94
Mean 0.006715
Std Dev 0.3616

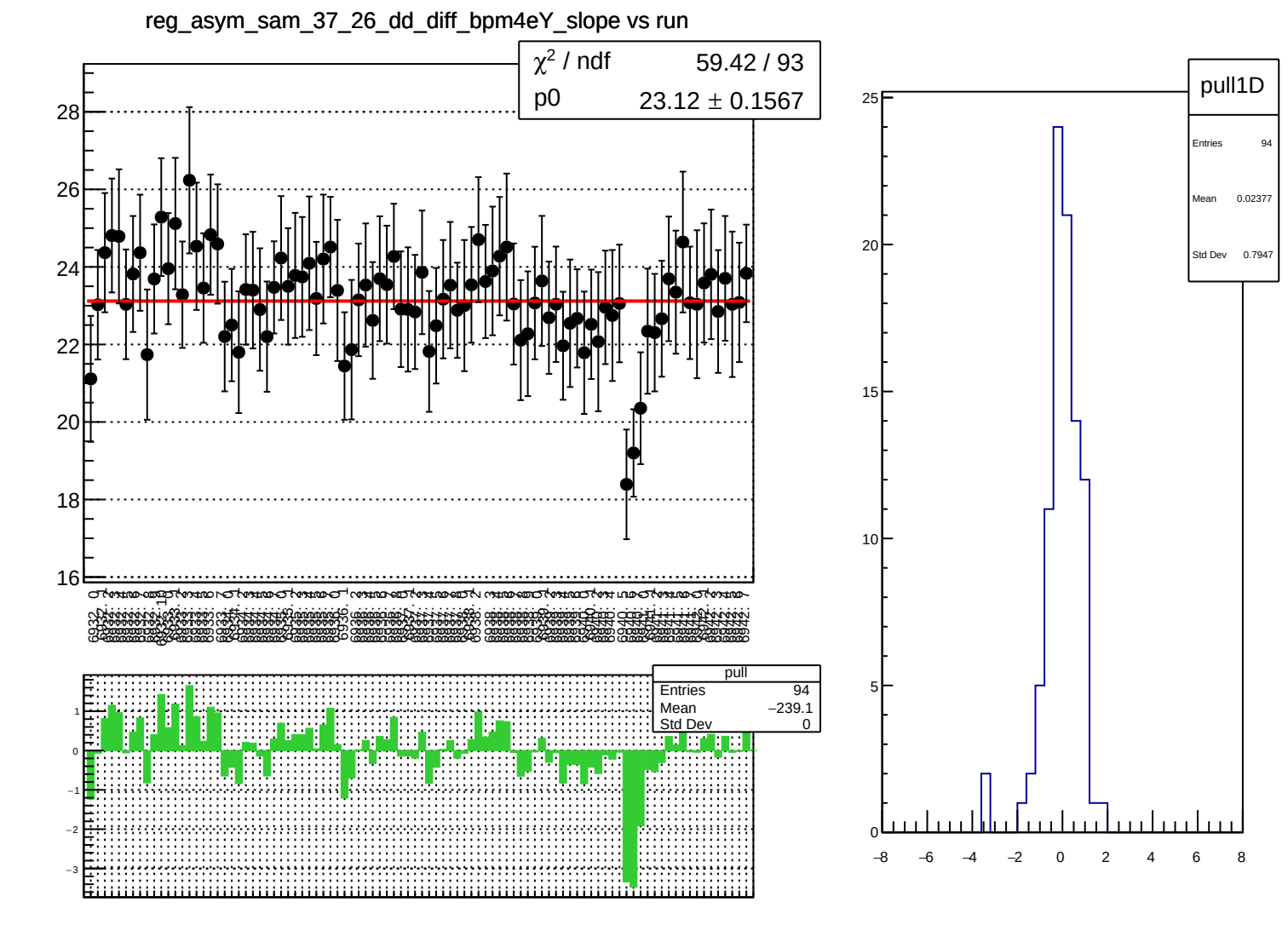

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.662 / 93
p0 43.9 ± 0.3916
pull
Entries 94
Mean −560.8
Std Dev 0
pull1D
Entries 94
Mean 0.002807
Std Dev 0.2454

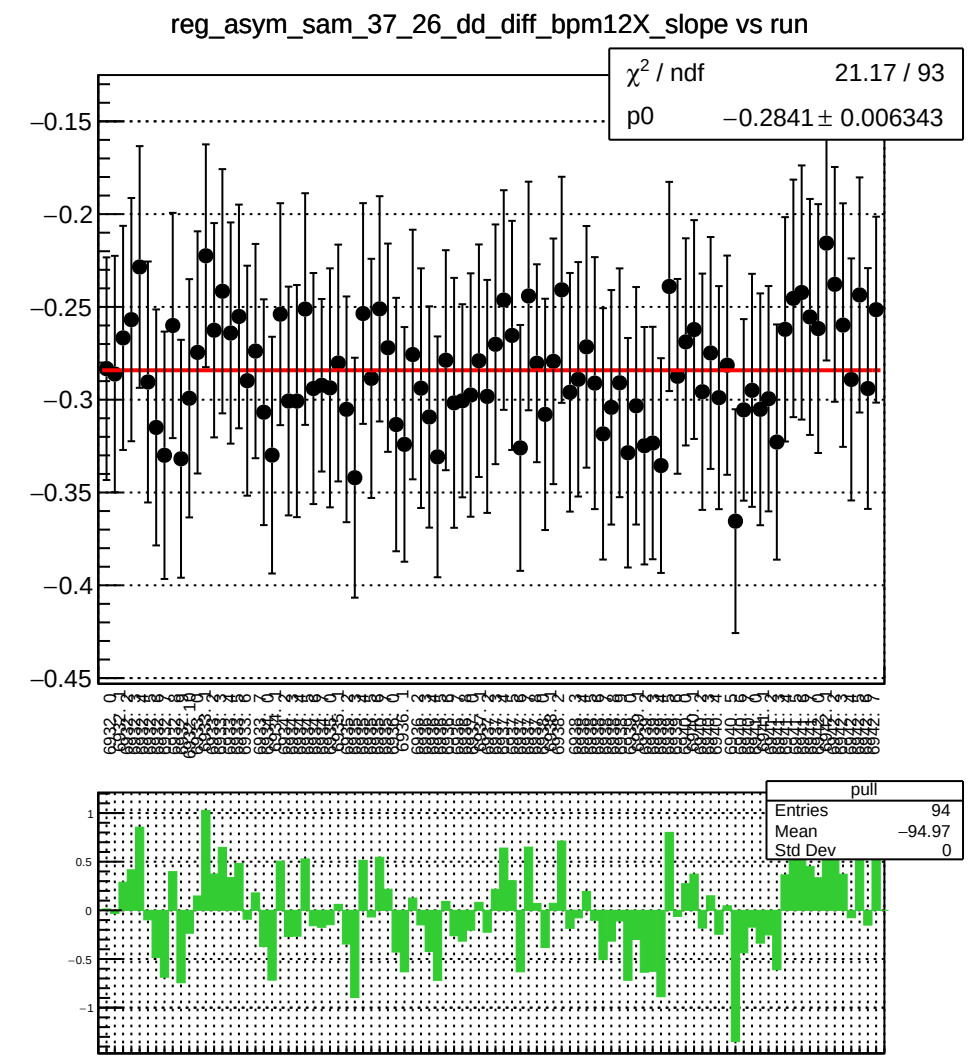

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.138 / 93
p0 −0.4523 ± 0.01591
pull
Entries 94
Mean 15.73
Std Dev 155.2
pull1D
Entries 94
Mean 0.003209
Std Dev 0.2755

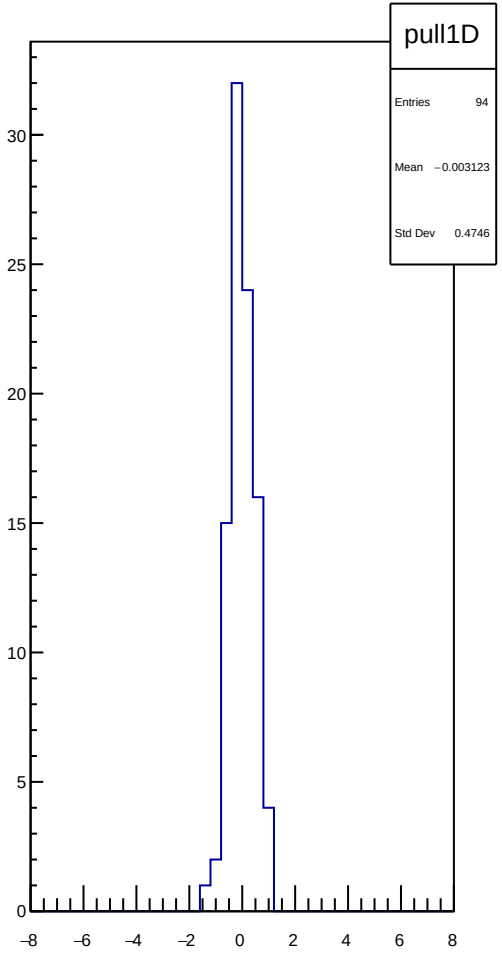

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 86.44 / 93
p0 −0.4086 ± 0.2016
pull
Entries 94
Mean 24.08
Std Dev 28.29
pull1D
Entries 94
Mean 0.04788
Std Dev 0.9578

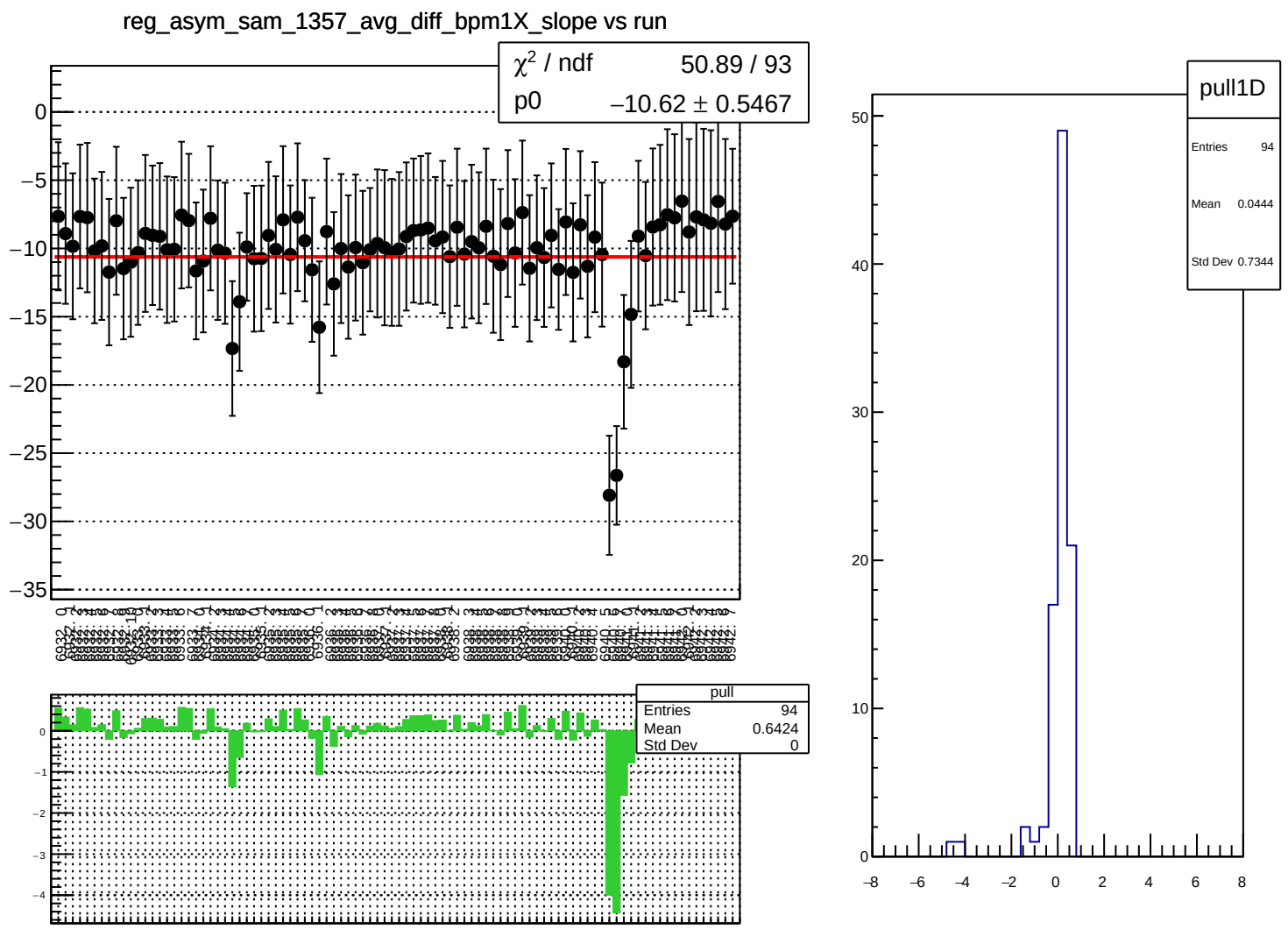

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 45.77 / 93
p0 −0.8545 ± 0.1357
pull
Entries 94
Mean 578.9
Std Dev 0
pull1D
Entries 94
Mean 0.01095
Std Dev 0.6977

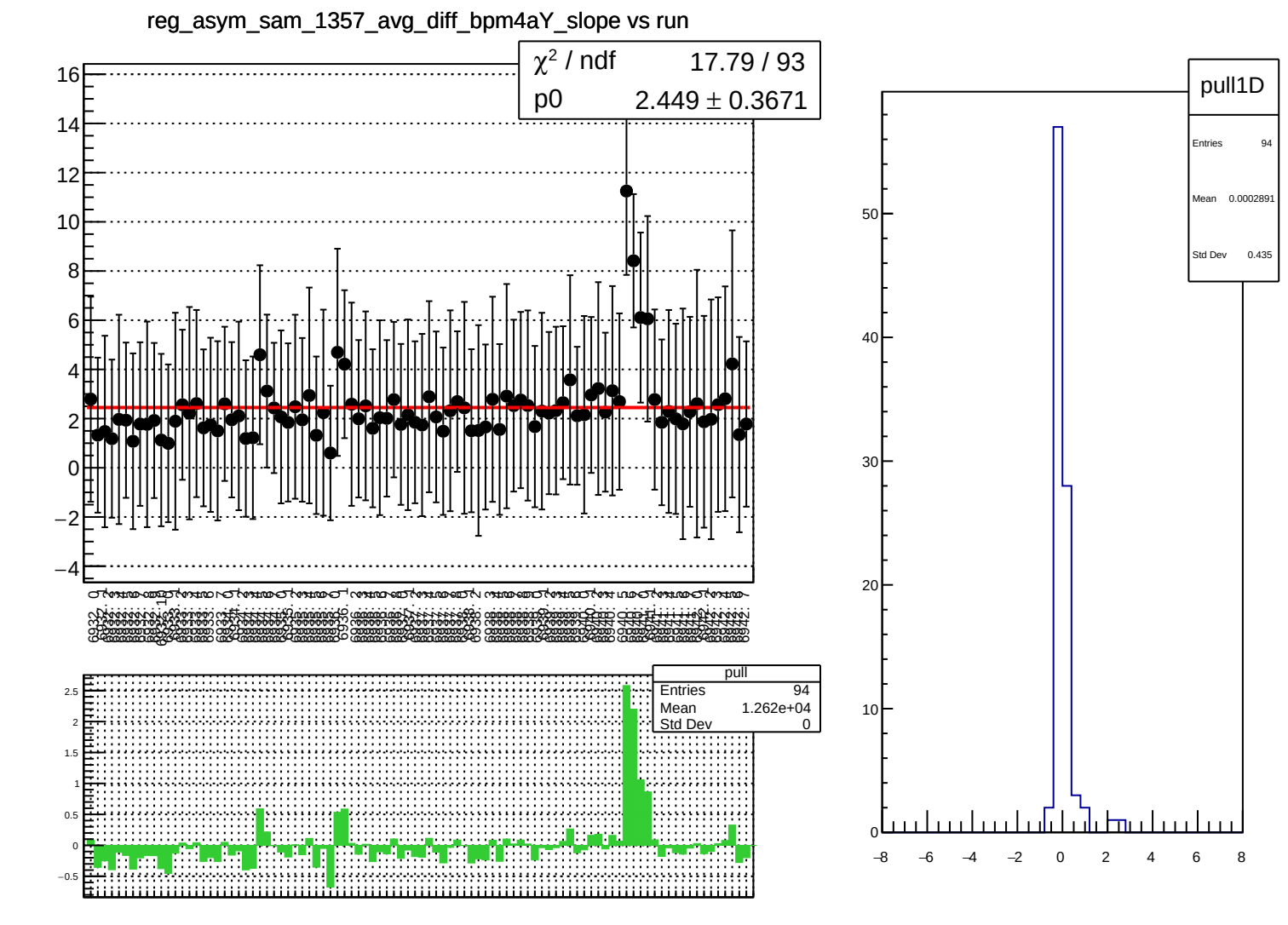

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.53 / 93
p0 −6.442 ± 0.1869
pull
Entries 94
Mean 21.65
Std Dev 0
pull1D
Entries 94
Mean −0.04214
Std Dev 0.8774

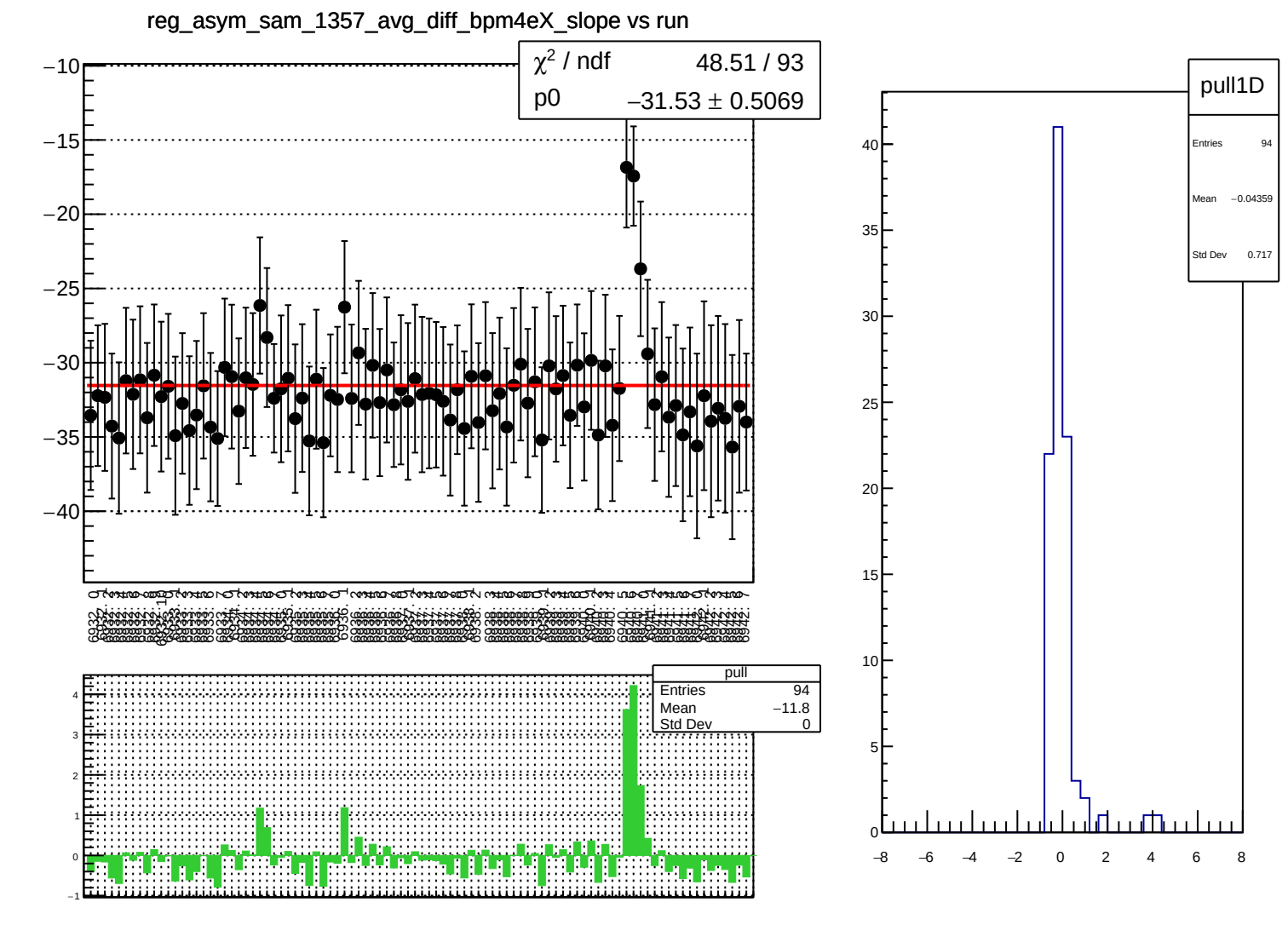

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.42 / 93
p0 23.12 ± 0.1567
pull
Entries 94
Mean −239.1
Std Dev 0
pull1D
Entries 94
Mean 0.02377
Std Dev 0.7947

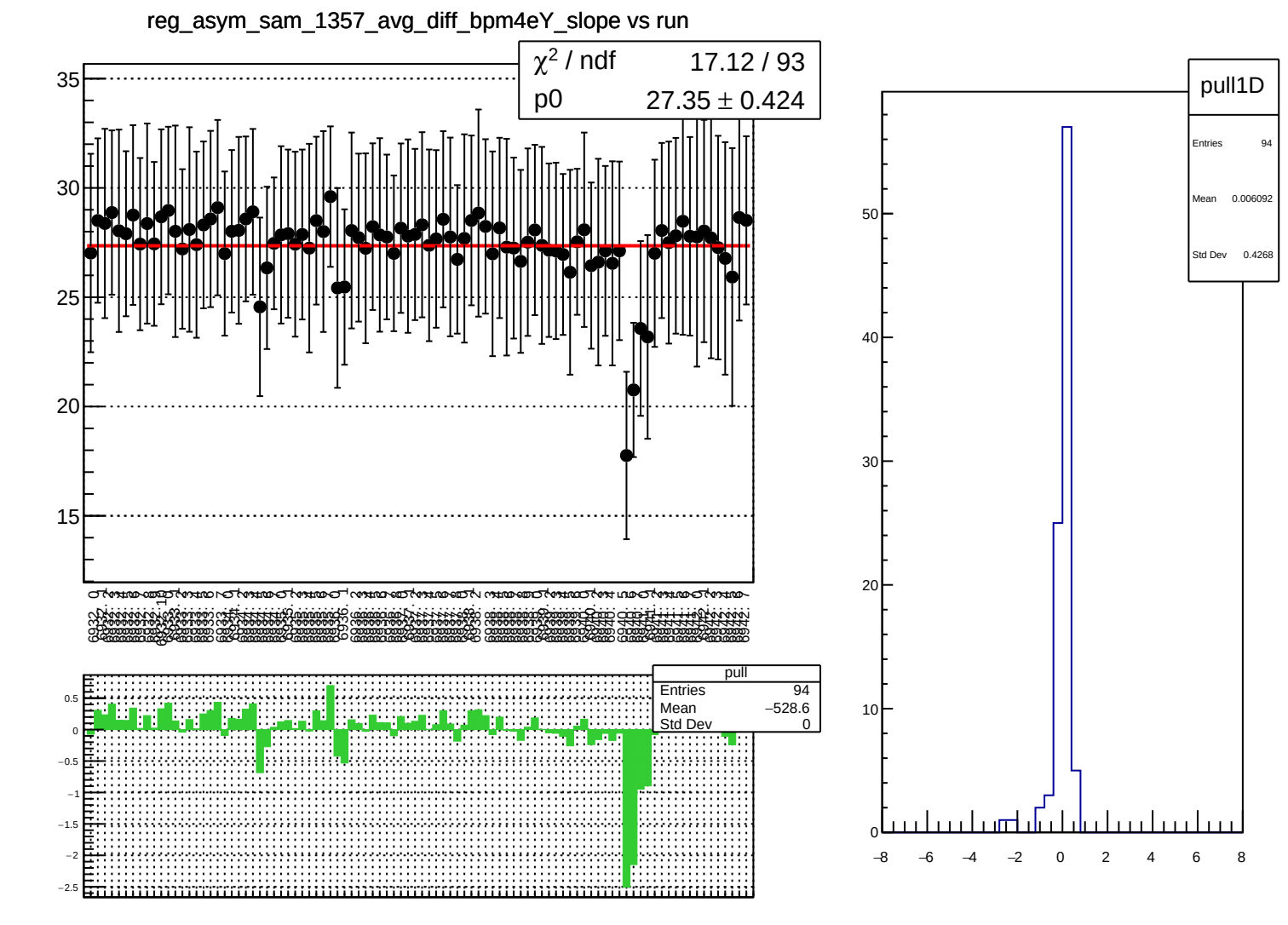

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 21.17 / 93
p0 −0.2841 ± 0.006343
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
−0.45
pull
Entries 94
Mean −94.97
Std Dev 0
1
0.5
0
−0.5
−1

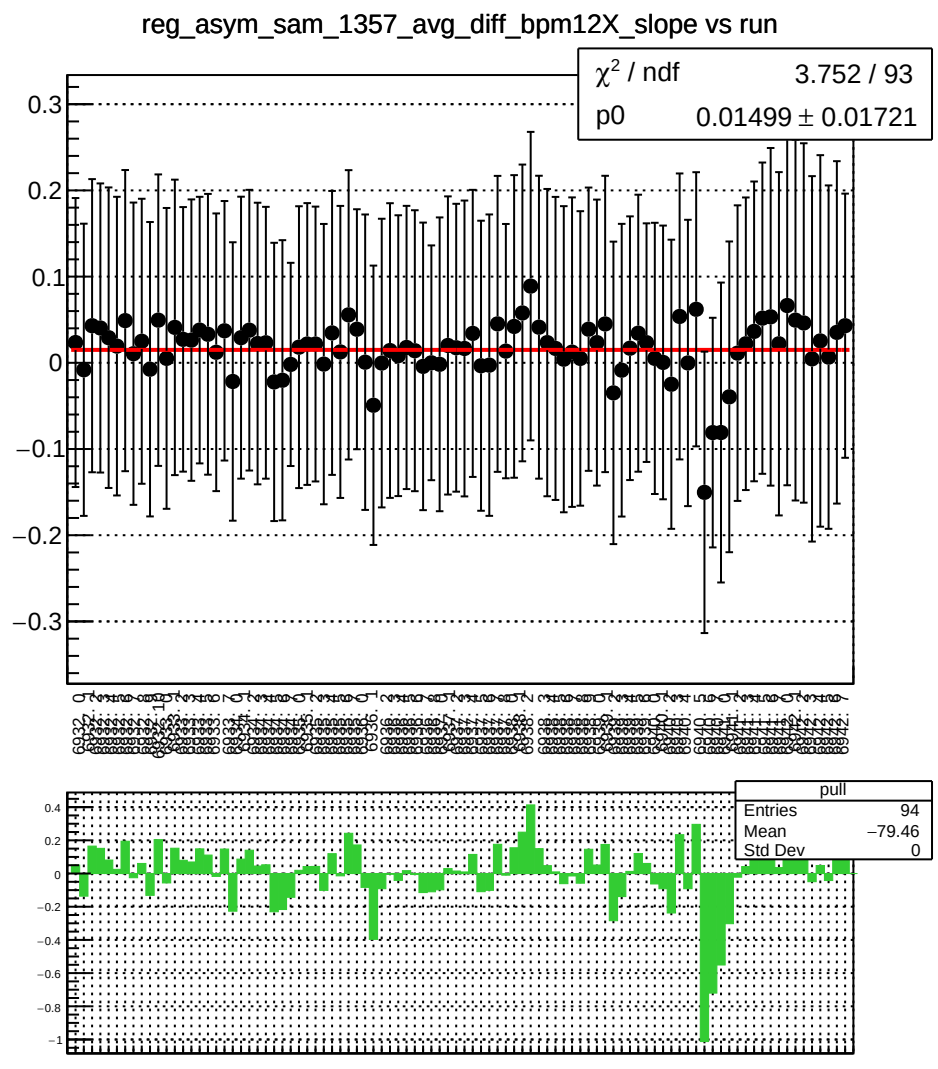

pull1D
Entries 94
Mean −0.003123
Std Dev 0.4746
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

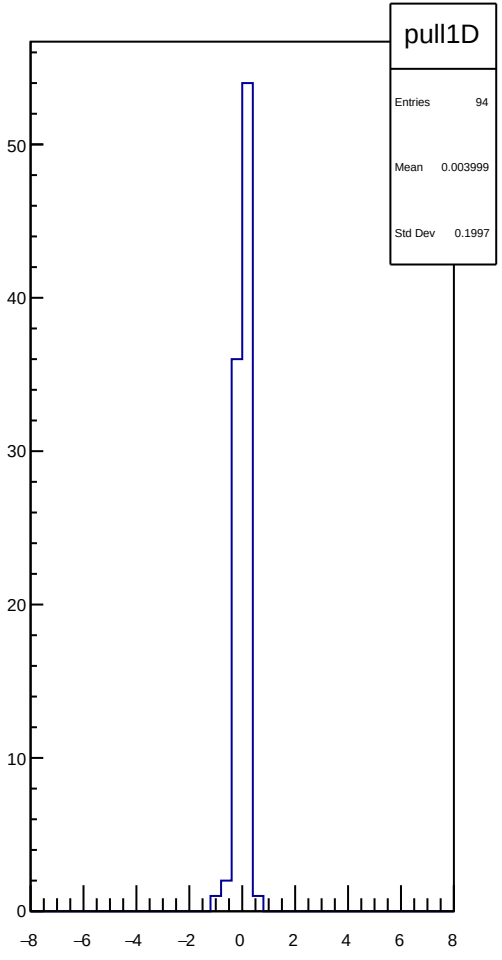

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 50.89 / 93
p0 −10.62 ± 0.5467
pull
Entries 94
Mean 0.6424
Std Dev 0
pull1D
Entries 94
Mean 0.0444
Std Dev 0.7344

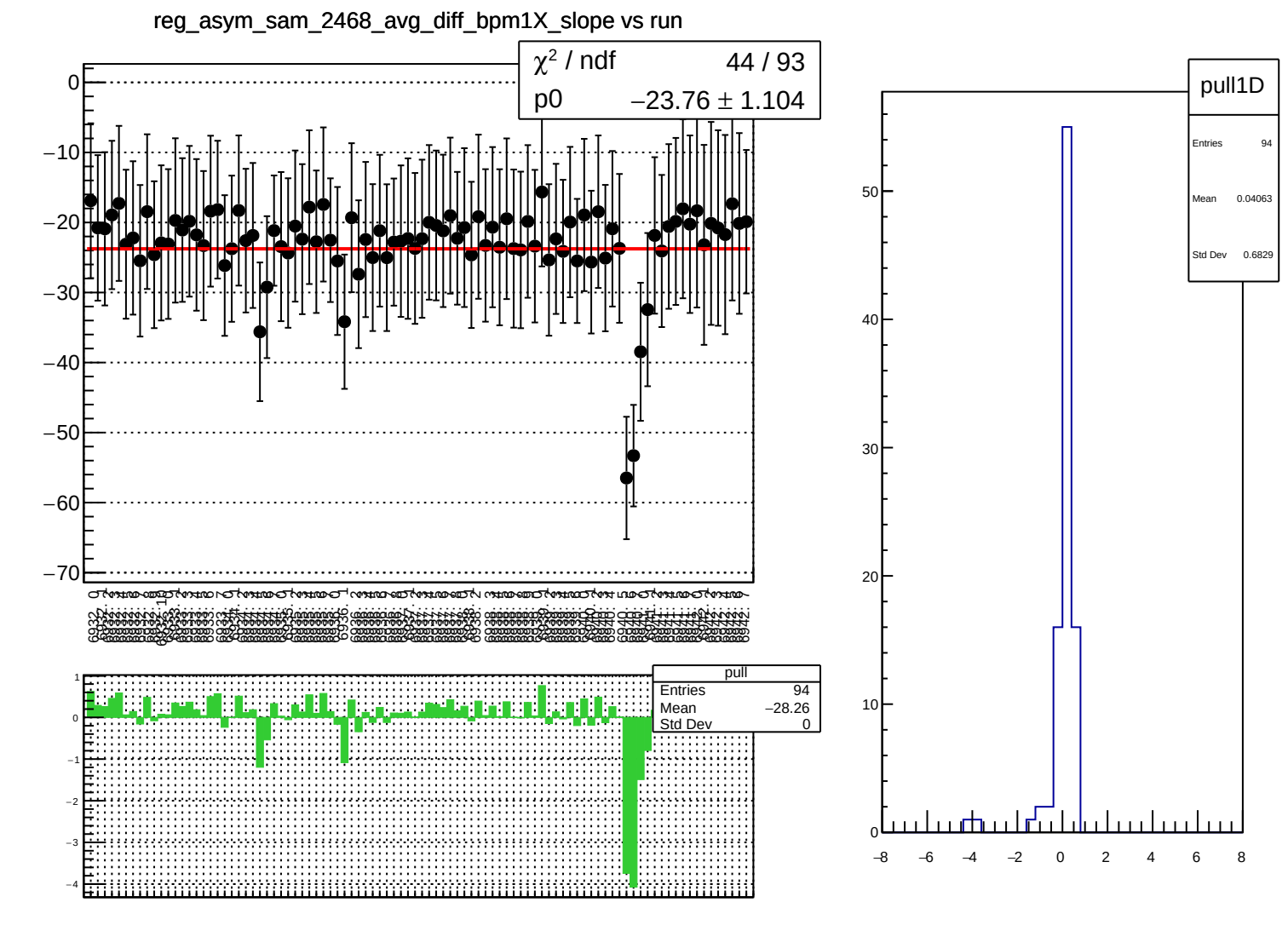

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.79 / 93
p0 2.449 ± 0.3671
pull
Entries 94
Mean 1.262e+04
Std Dev 0
pull1D
Entries 94
Mean 0.0002891
Std Dev 0.435

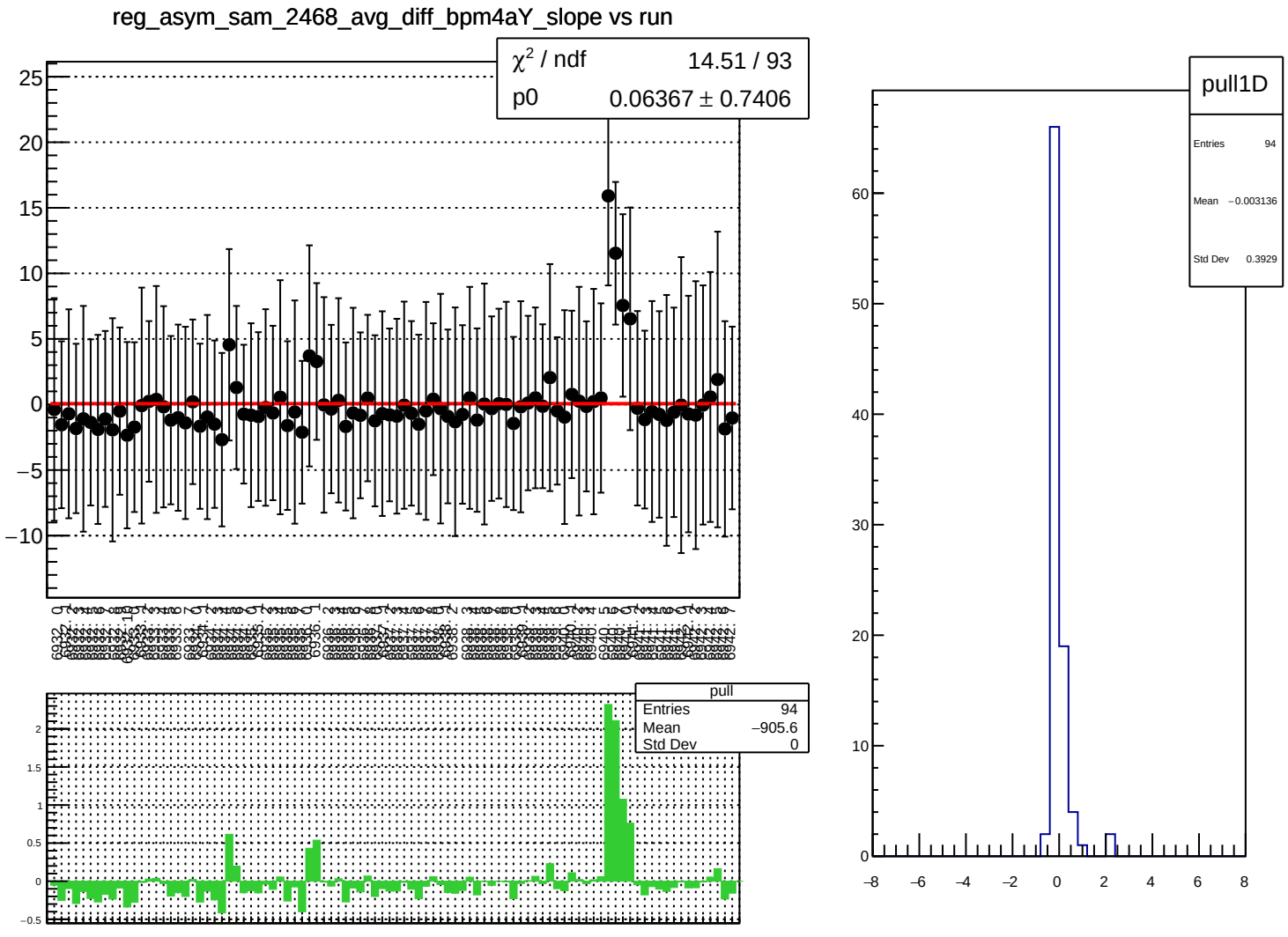

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.51 / 93
p0 −31.53 ± 0.5069
pull
Entries 94
Mean −11.8
Std Dev 0
pull1D
Entries 94
Mean −0.04359
Std Dev 0.717

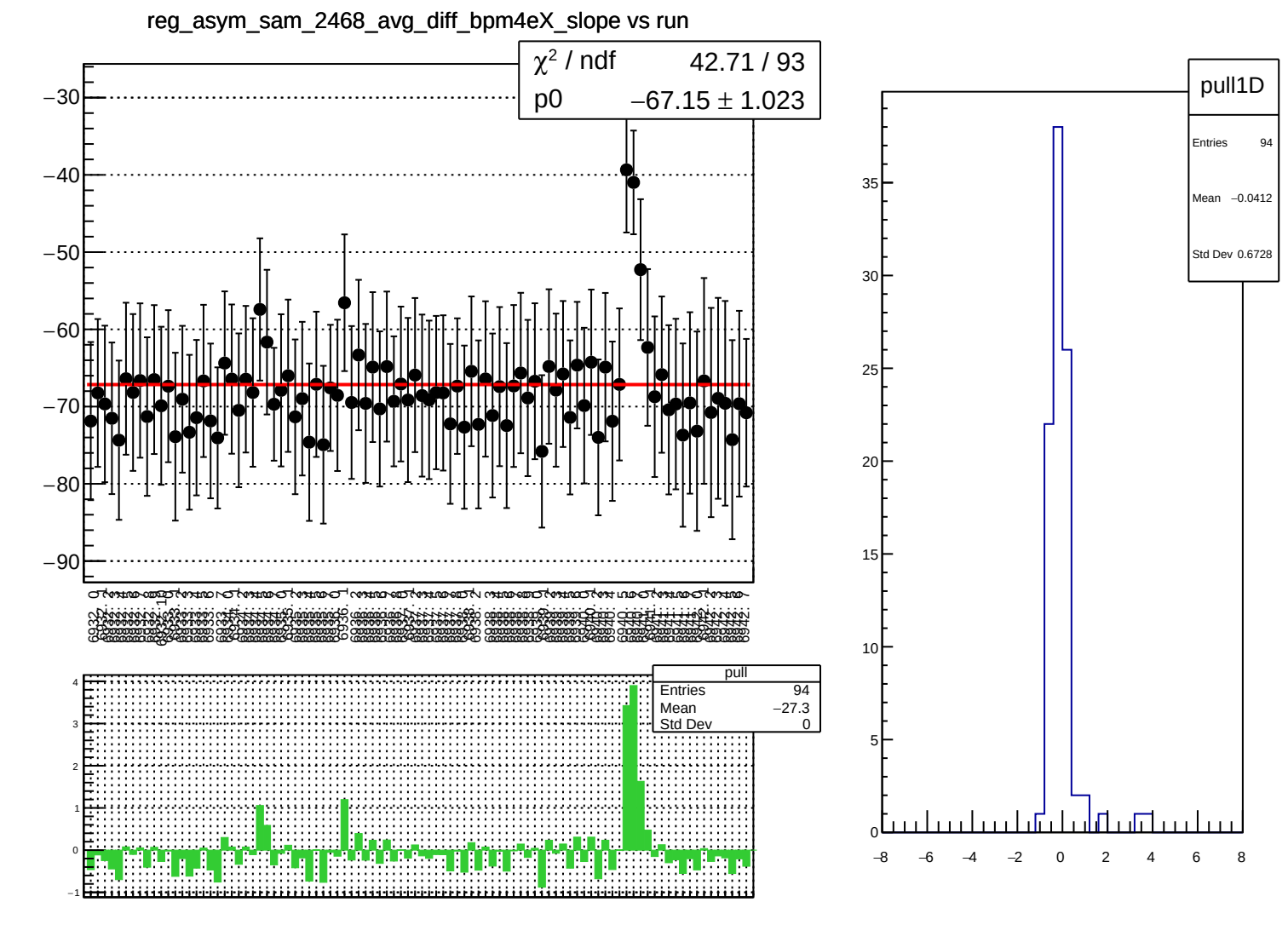

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.12 / 93
p0 27.35 ± 0.424
pull
Entries 94
Mean −528.6
Std Dev 0
pull1D
Entries 94
Mean 0.006092
Std Dev 0.4268

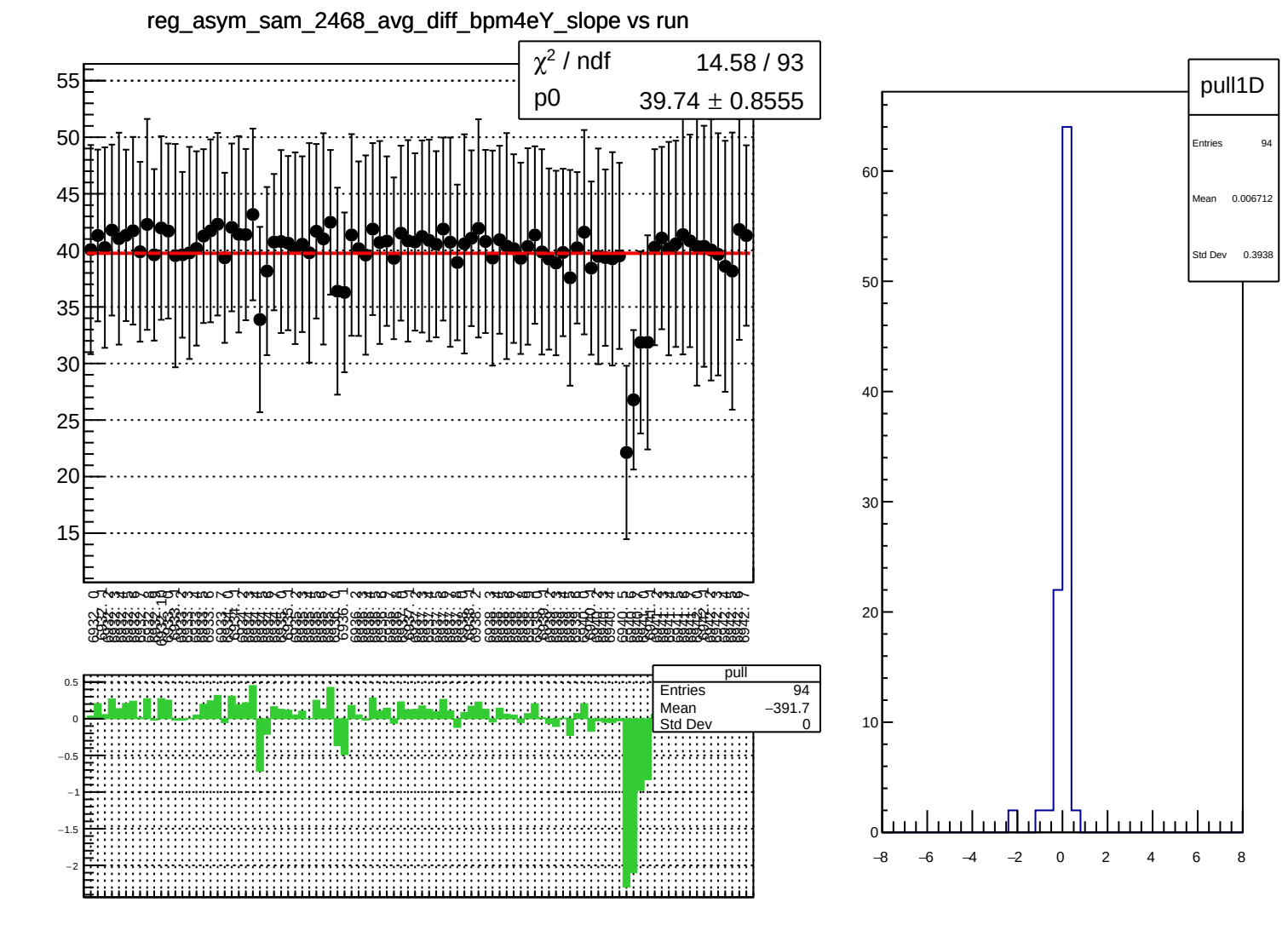

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 3.752 / 93
p0 0.01499 ± 0.01721
pull
Entries 94
Mean −79.46
Std Dev 0

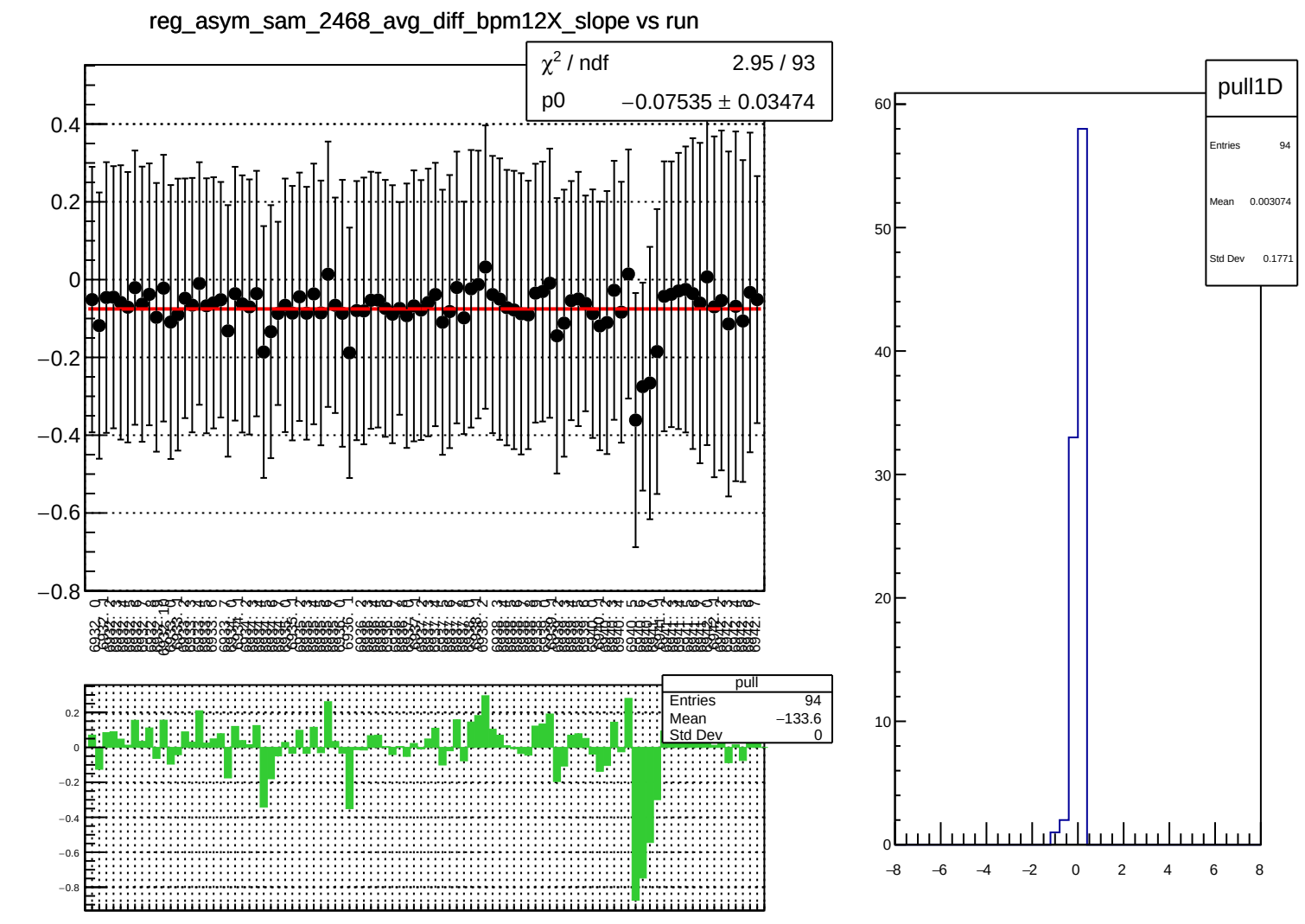

pull1D
Entries 94
Mean 0.003999
Std Dev 0.1997

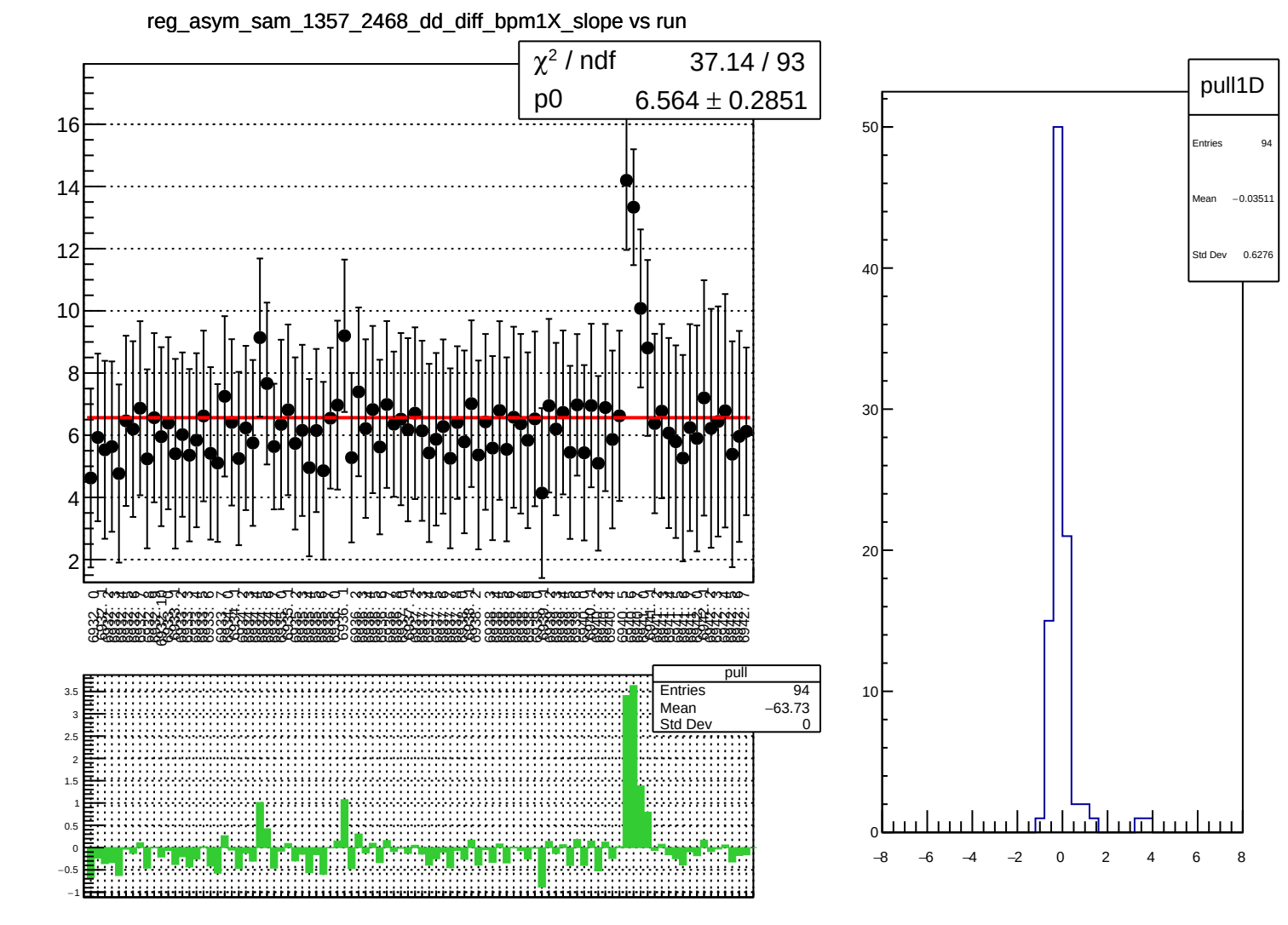

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 44 / 93
p0 −23.76 ± 1.104
pull
Entries 94
Mean −28.26
Std Dev 0
pull1D
Entries 94
Mean 0.04063
Std Dev 0.6829

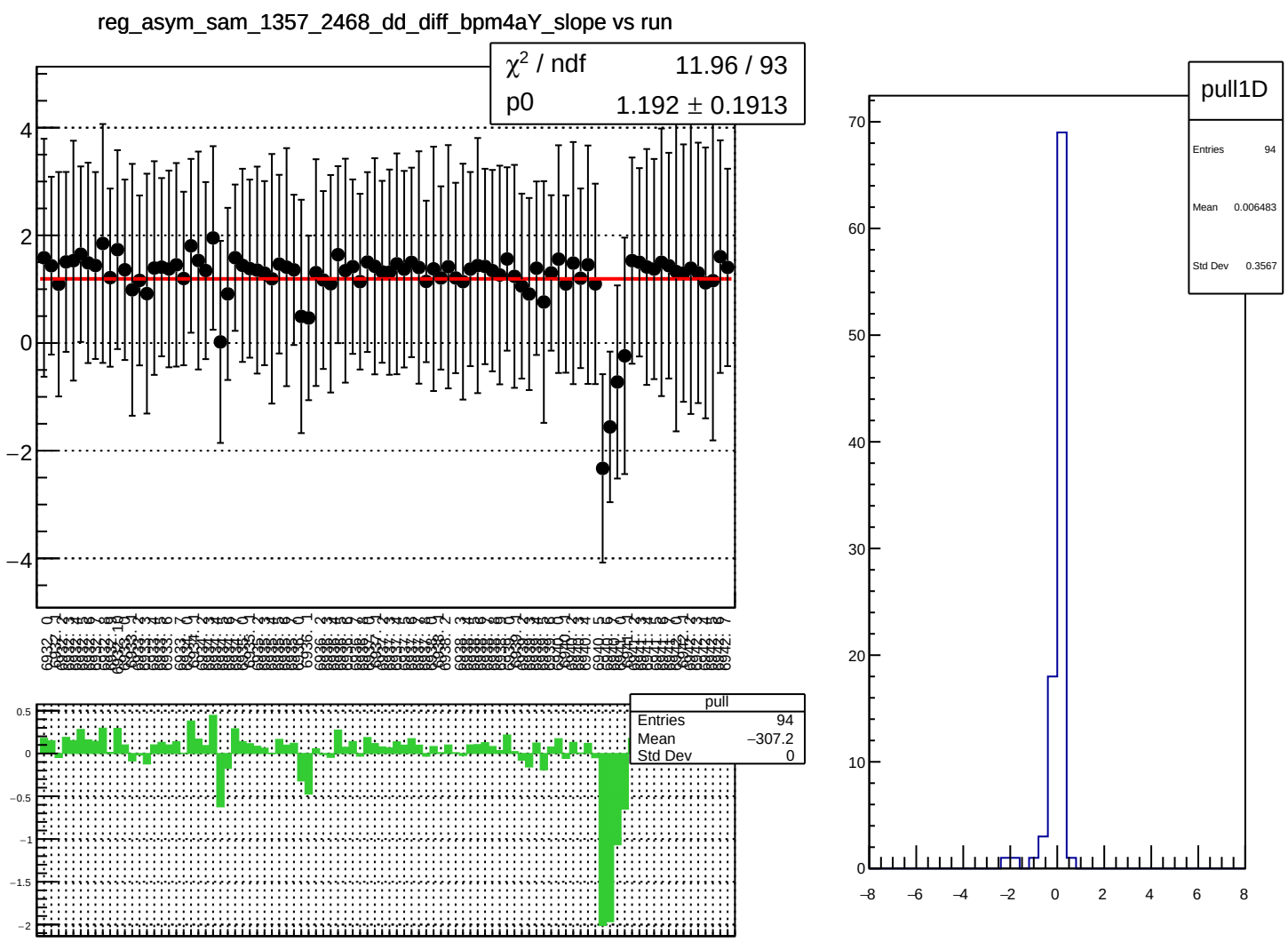

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.51 / 93
p0 0.06367 ± 0.7406
pull
Entries 94
Mean −905.6
Std Dev 0
pull1D
Entries 94
Mean −0.003136
Std Dev 0.3929

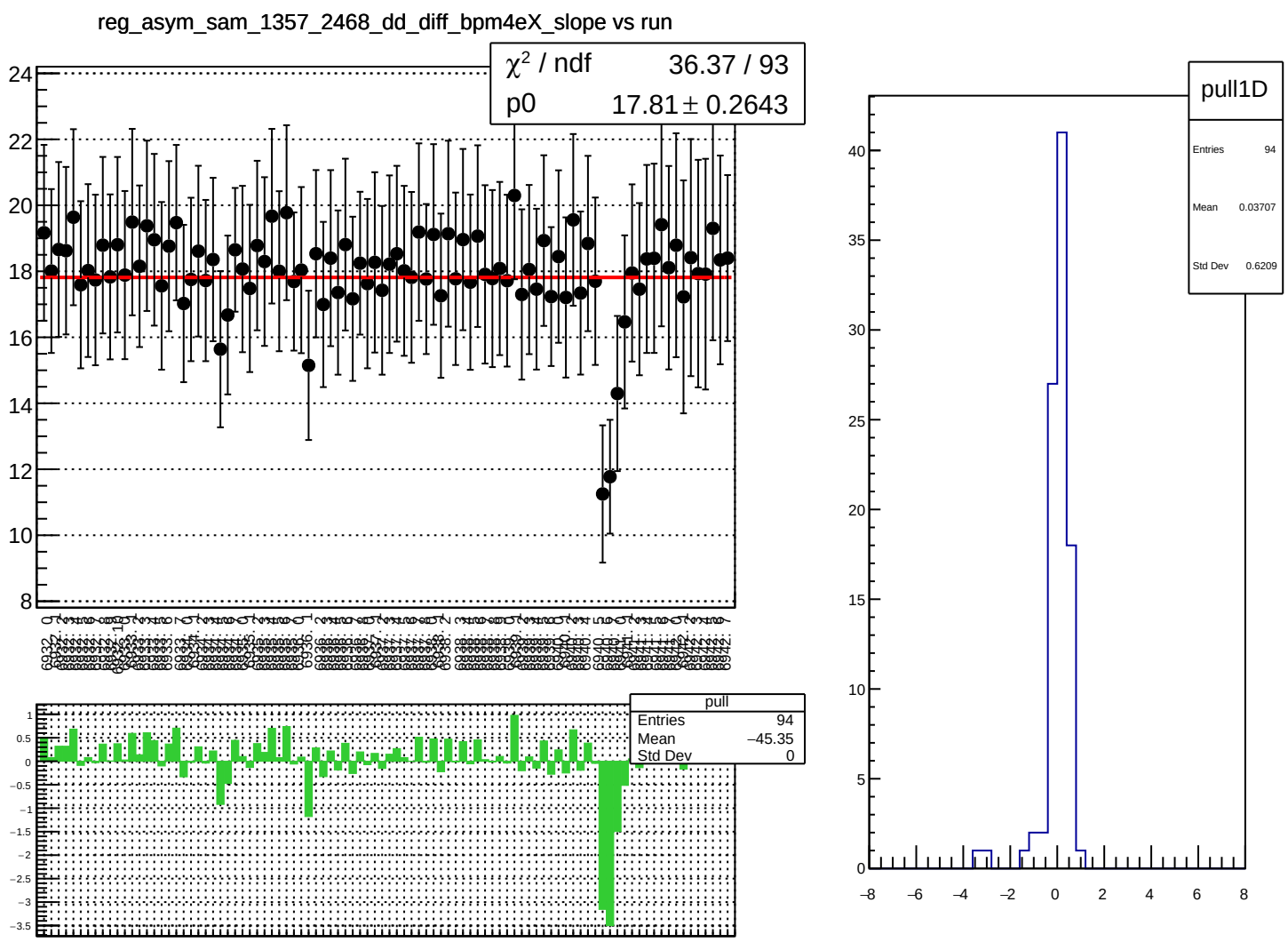

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.71 / 93
p0 −67.15 ± 1.023
pull
Entries 94
Mean −27.3
Std Dev 0
pull1D
Entries 94
Mean −0.0412
Std Dev 0.6728

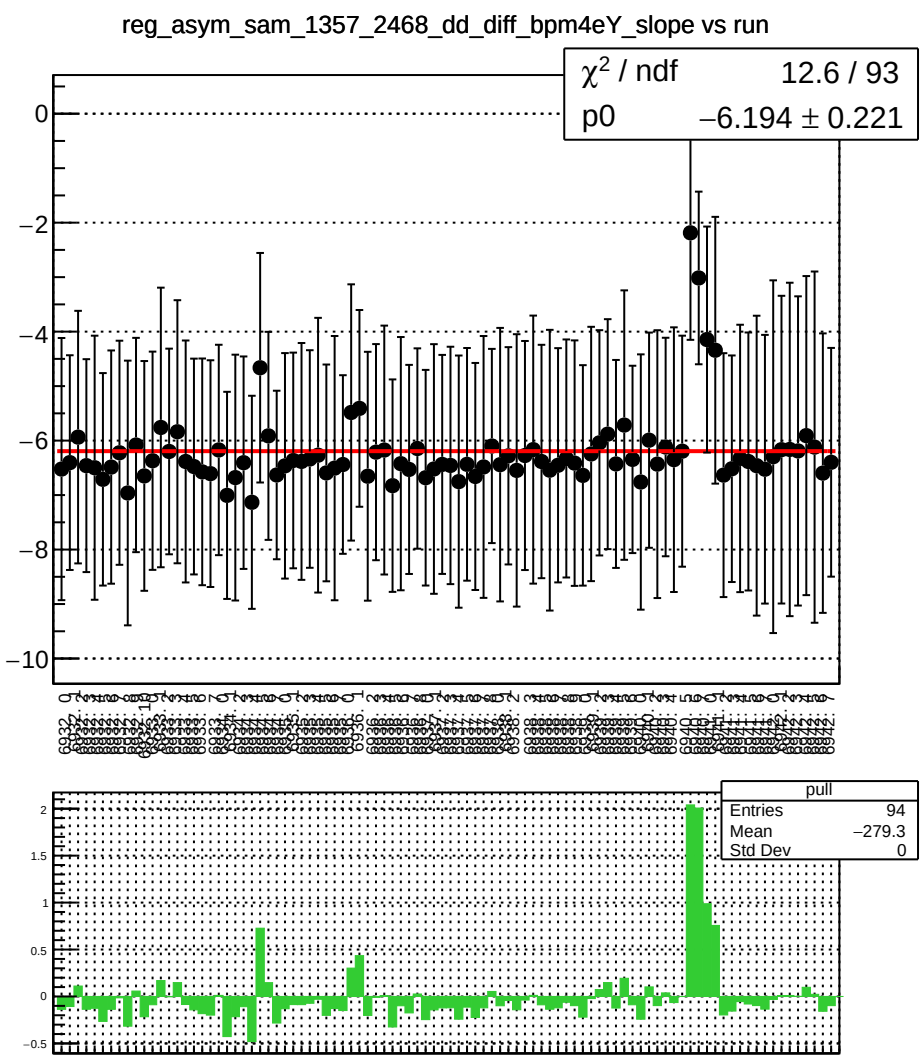

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.58 / 93
p0 39.74 ± 0.8555
pull
Entries 94
Mean −391.7
Std Dev 0
pull1D
Entries 94
Mean 0.006712
Std Dev 0.3938

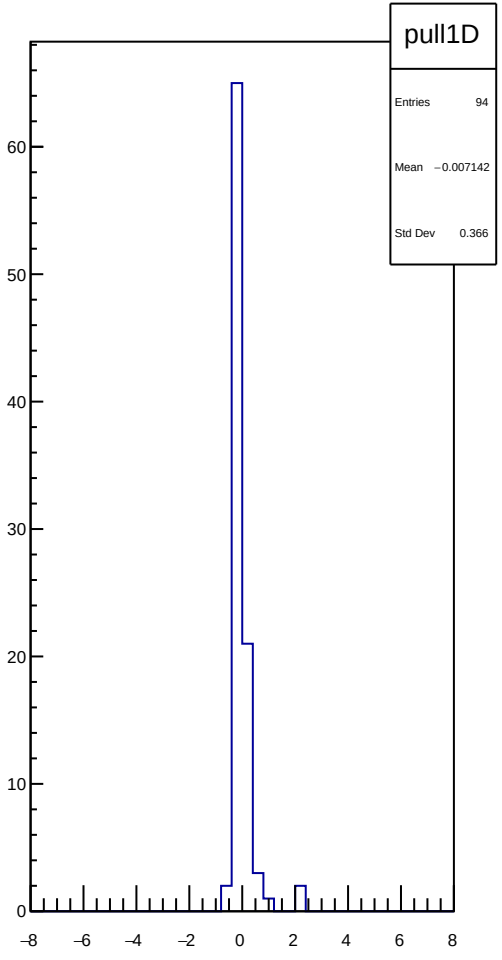

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.95 / 93
p0 −0.07535 ± 0.03474
pull
Entries 94
Mean −133.6
Std Dev 0
pull1D
Entries 94
Mean 0.003074
Std Dev 0.1771

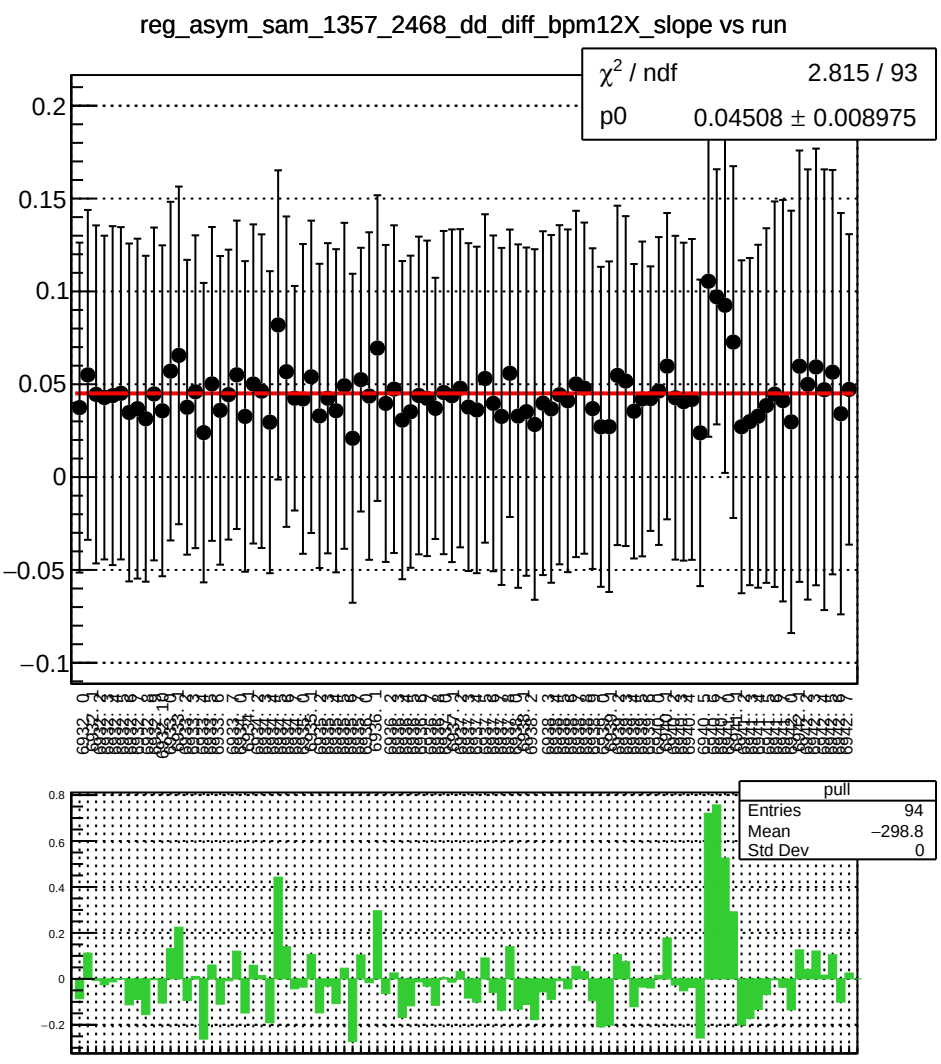

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 37.14 / 93
p0 6.564 ± 0.2851
pull
Entries 94
Mean −63.73
Std Dev 0
pull1D
Entries 94
Mean −0.03511
Std Dev 0.6276

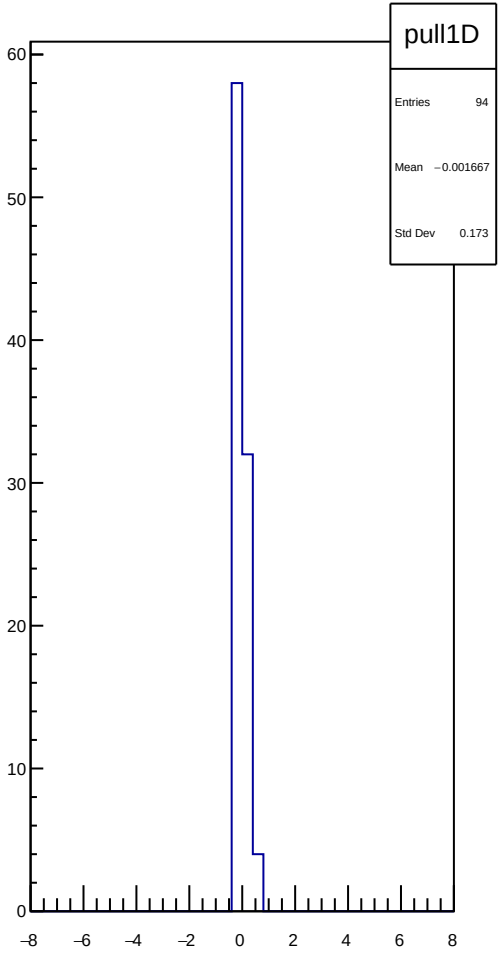

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.96 / 93
p0 1.192 ± 0.1913
pull
Entries 94
Mean −307.2
Std Dev 0
pull1D
Entries 94
Mean 0.006483
Std Dev 0.3567

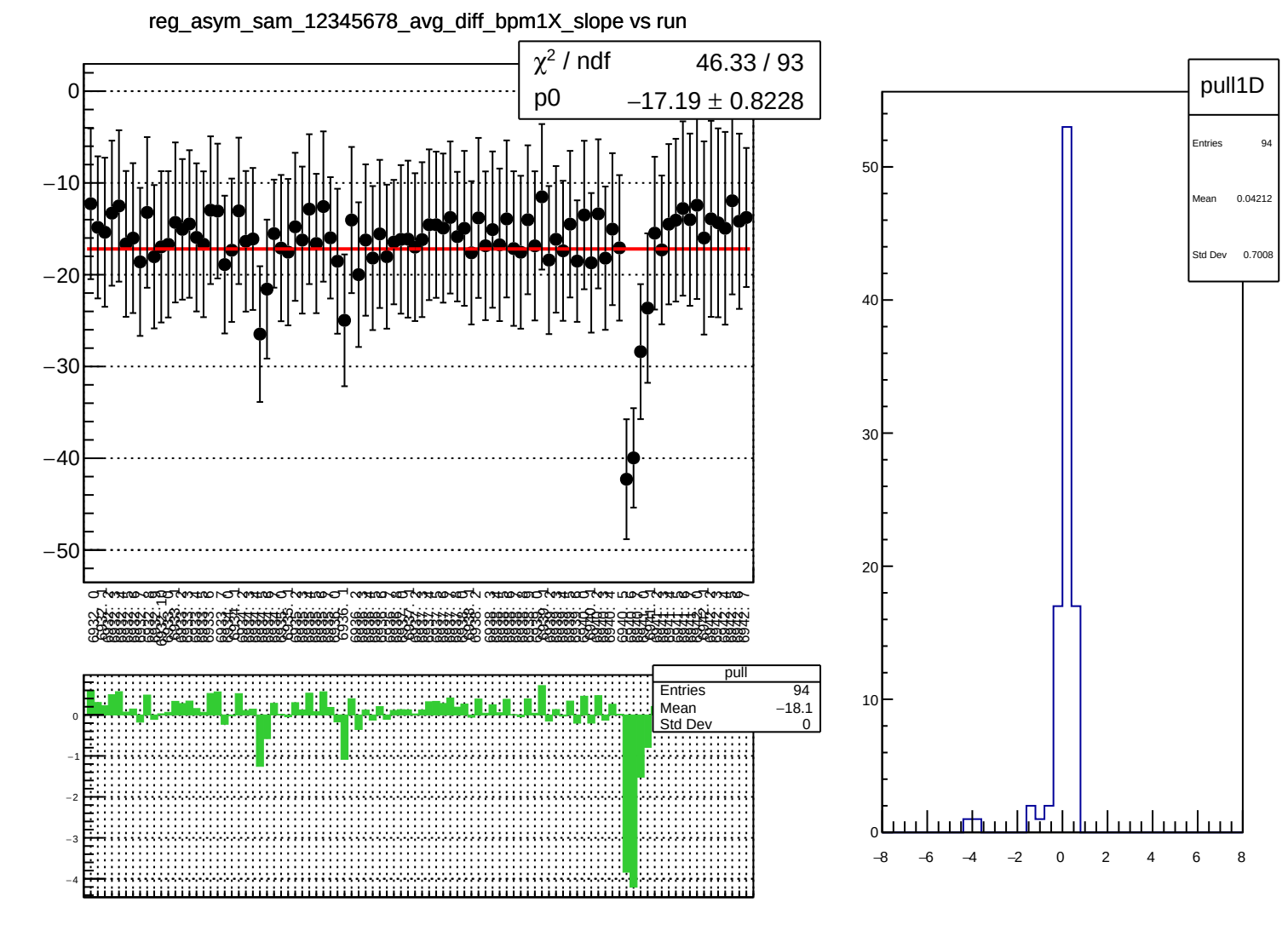

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.37 / 93
p0 17.81 ± 0.2643
pull
Entries 94
Mean −45.35
Std Dev 0
pull1D
Entries 94
Mean 0.03707
Std Dev 0.6209

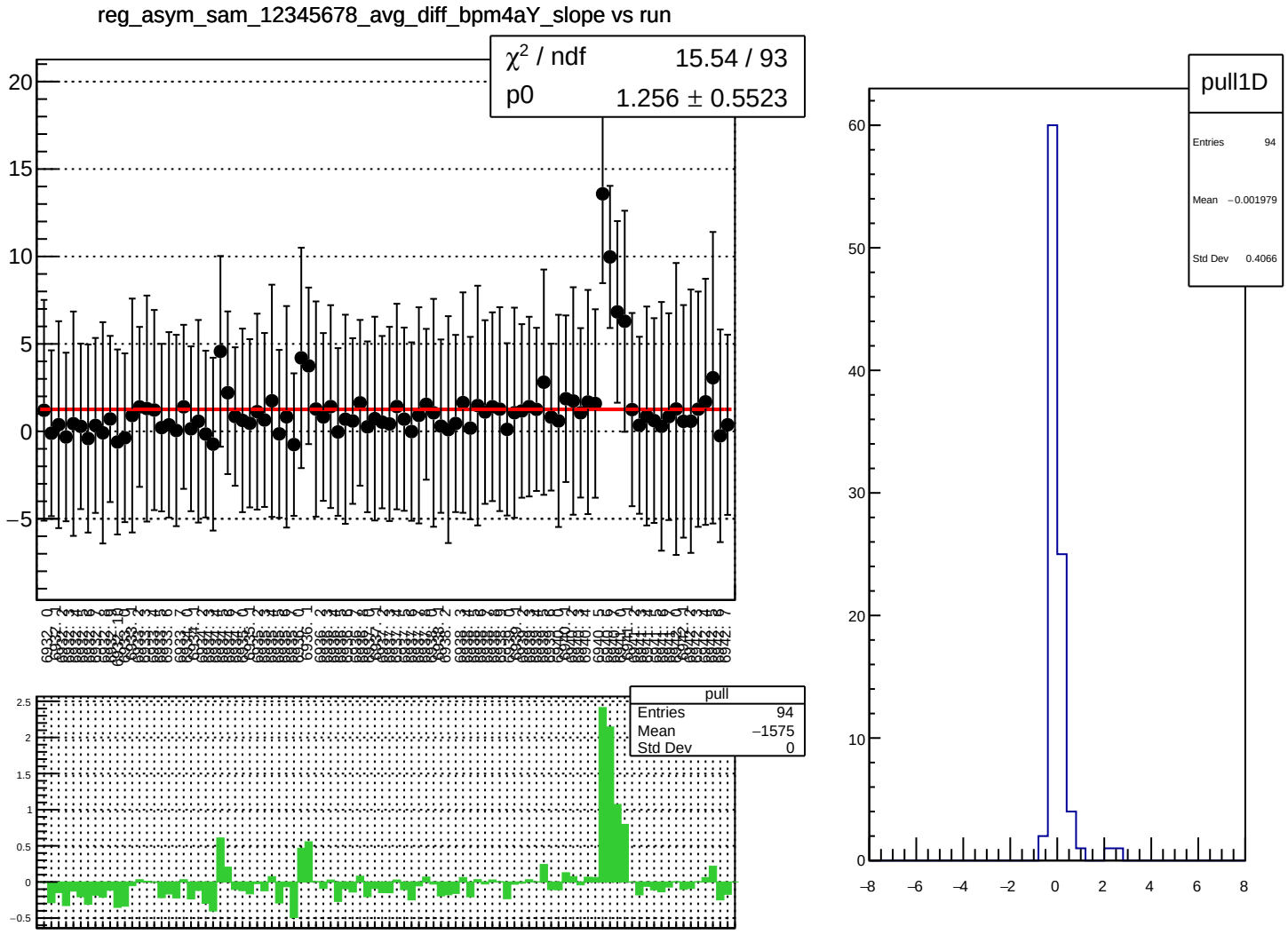

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.6 / 93
p0 −6.194 ± 0.221
pull
Entries 94
Mean −279.3
Std Dev 0

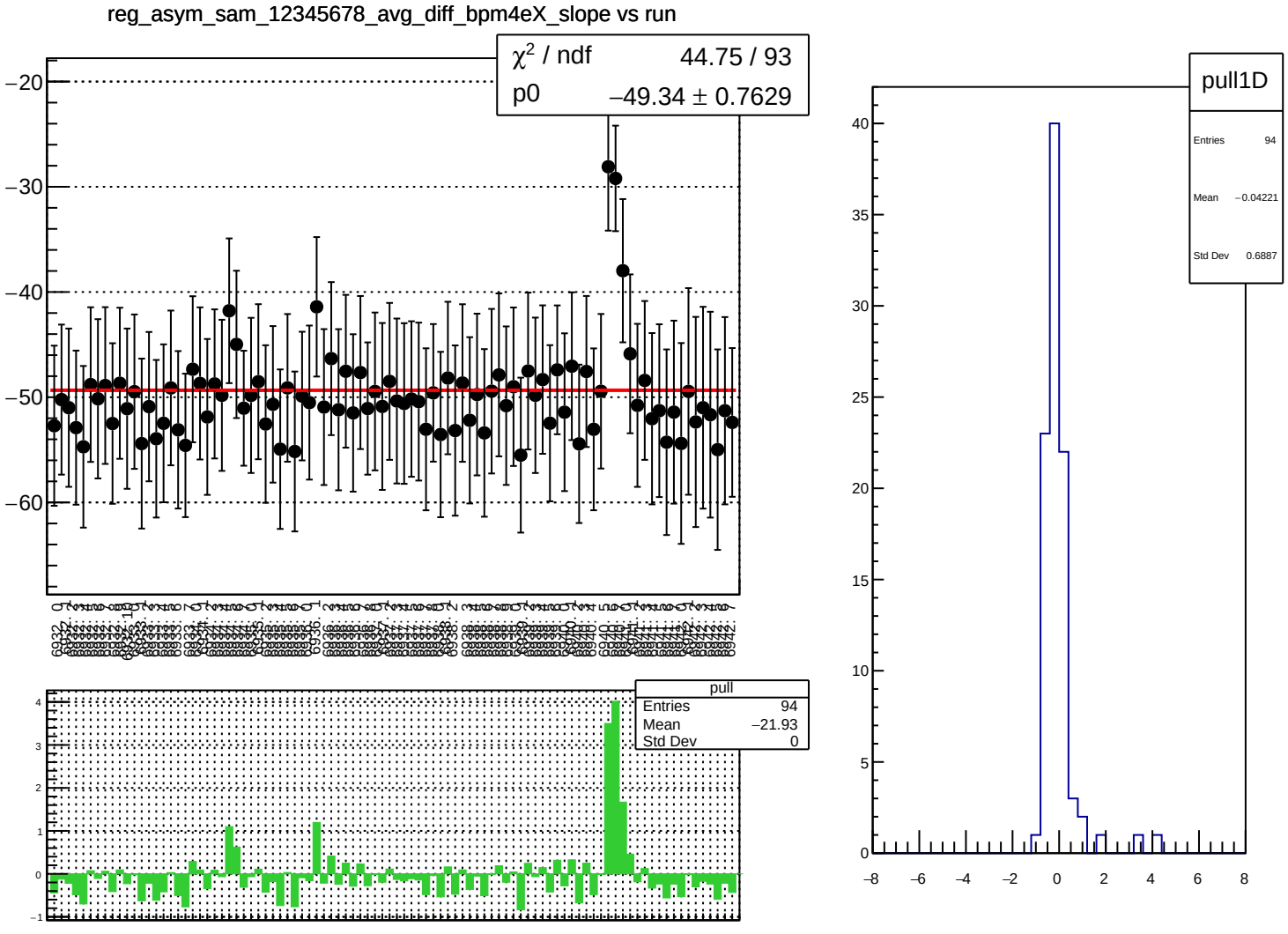

pull1D
Entries 94
Mean −0.007142
Std Dev 0.366

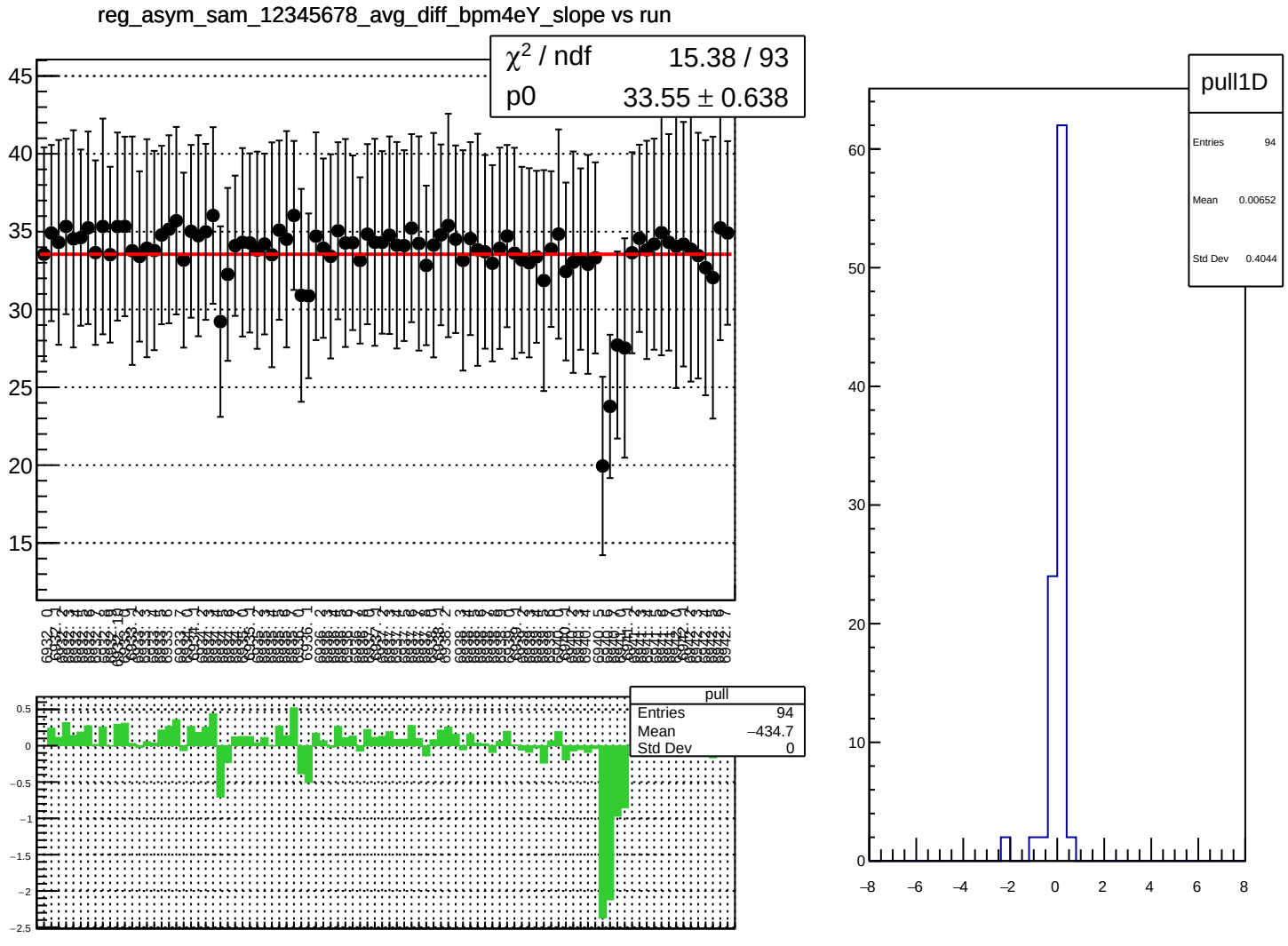

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.815 / 93
p0 0.04508 ± 0.008975
pull
Entries 94
Mean −298.8
Std Dev 0

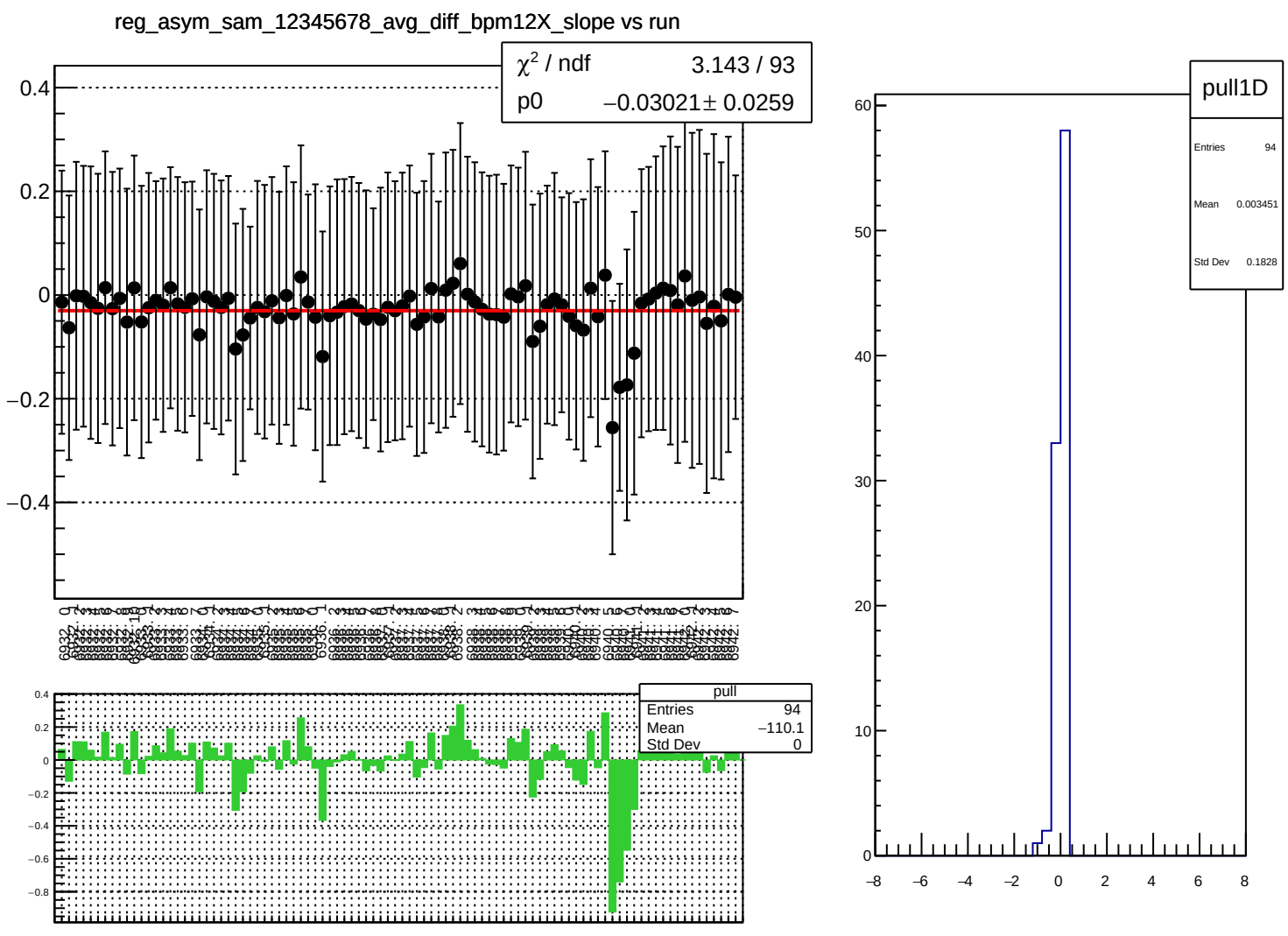

pull1D
Entries 94
Mean −0.001667
Std Dev 0.173

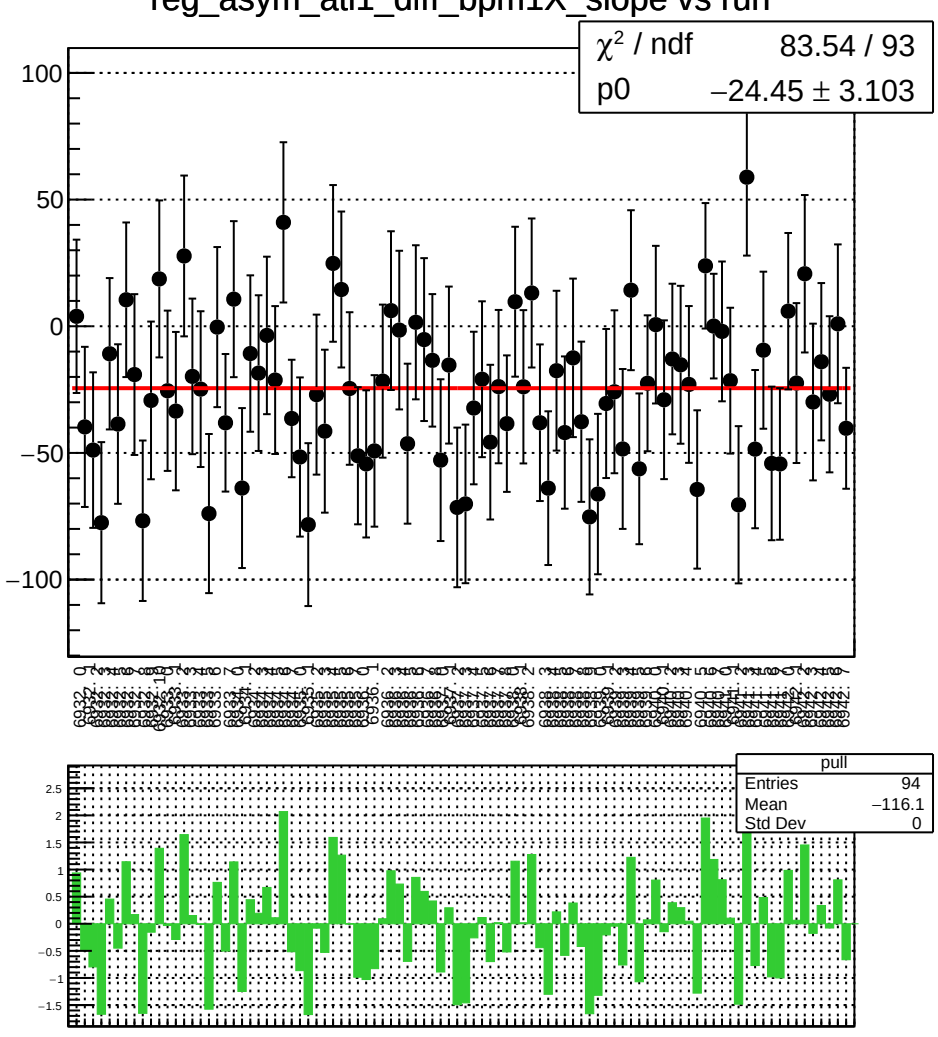

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 46.33 / 93
p0 −17.19 ± 0.8228
pull
Entries 94
Mean −18.1
Std Dev 0
pull1D
Entries 94
Mean 0.04212
Std Dev 0.7008

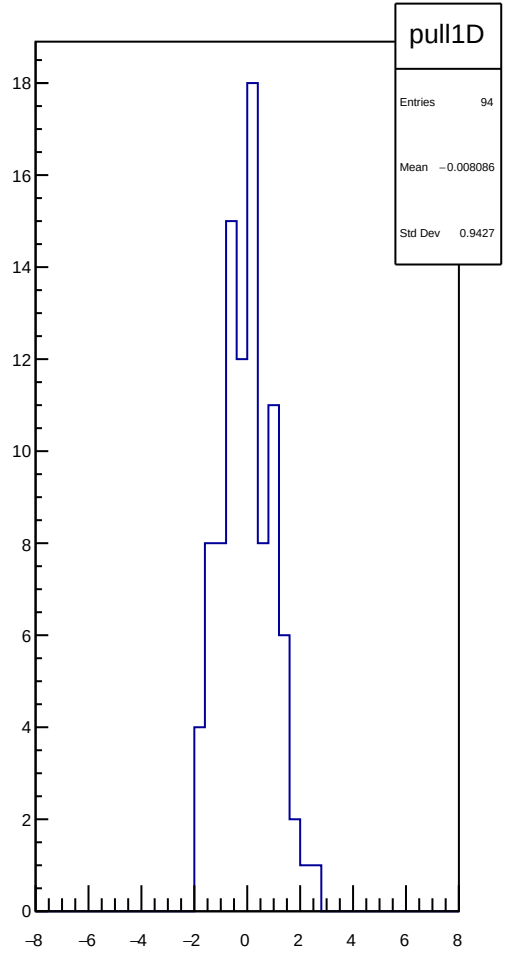

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.54 / 93
p0 1.256 ± 0.5523
pull
Entries 94
Mean −1575
Std Dev 0
pull1D
Entries 94
Mean −0.001979
Std Dev 0.4066

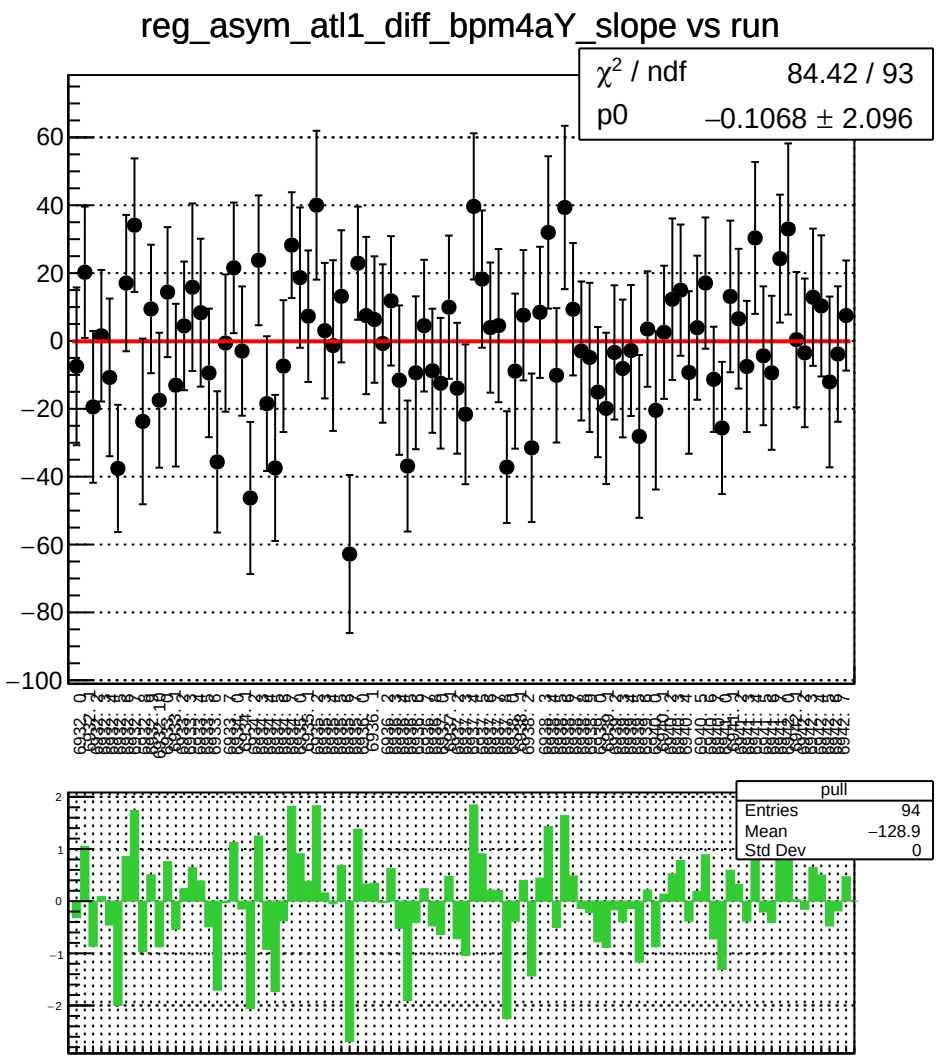

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.75 / 93
p0 −49.34 ± 0.7629
pull
Entries 94
Mean −21.93
Std Dev 0
pull1D
Entries 94
Mean −0.04221
Std Dev 0.6887

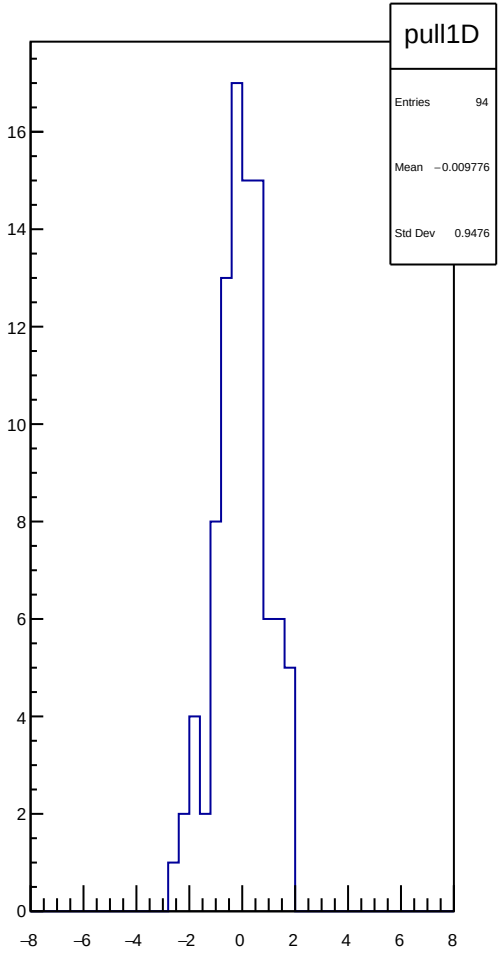

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.38 / 93
p0 33.55 ± 0.638
pull
Entries 94
Mean −434.7
Std Dev 0
pull1D
Entries 94
Mean 0.00652
Std Dev 0.4044

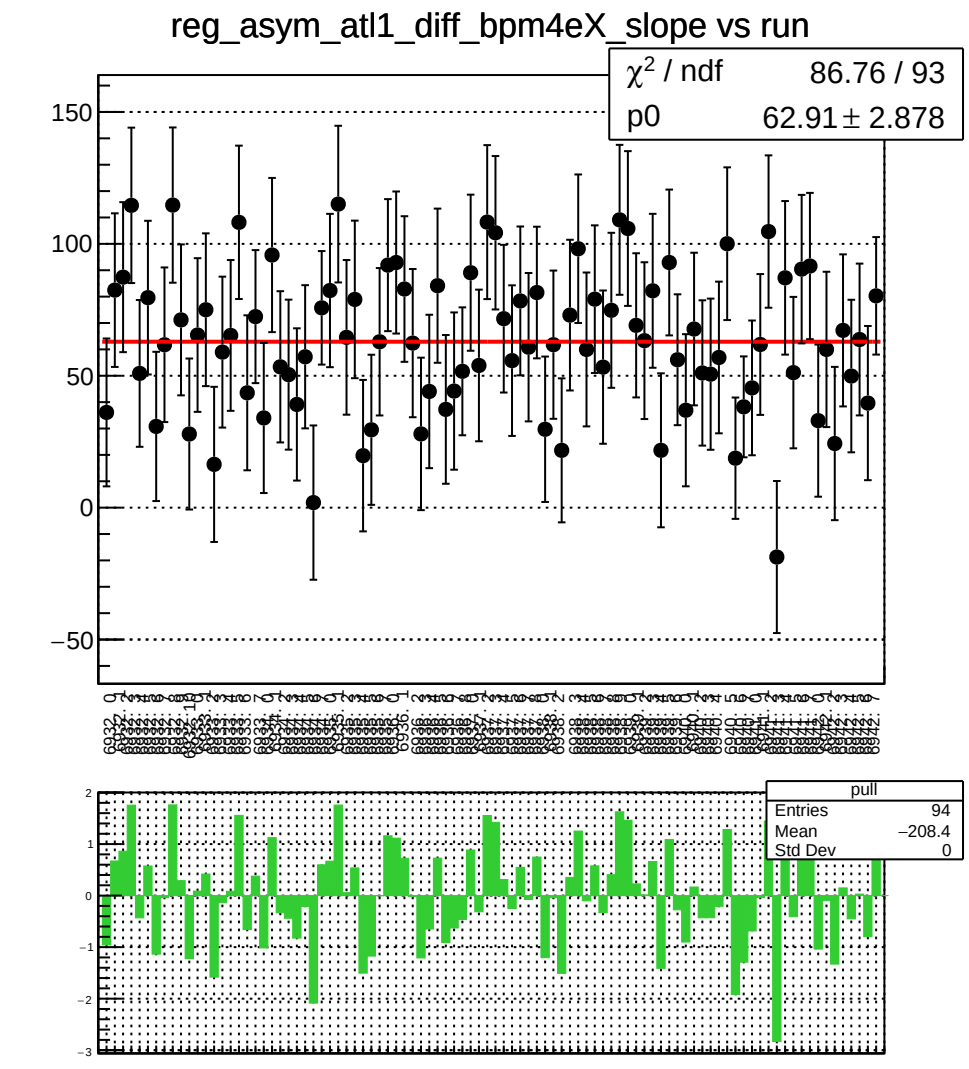

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.143 / 93
p0 −0.03021 ± 0.0259
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean −110.1
Std Dev 0
pull1D
Entries 94
Mean 0.003451
Std Dev 0.1828
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

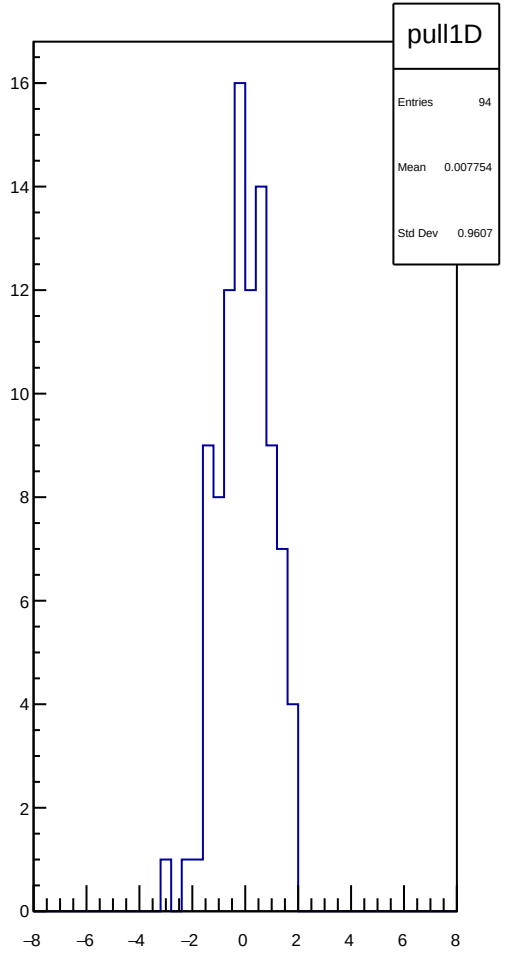

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 83.54 / 93
p0 −24.45 ± 3.103
100
50
0
−50
−100
pull
Entries 94
Mean −116.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

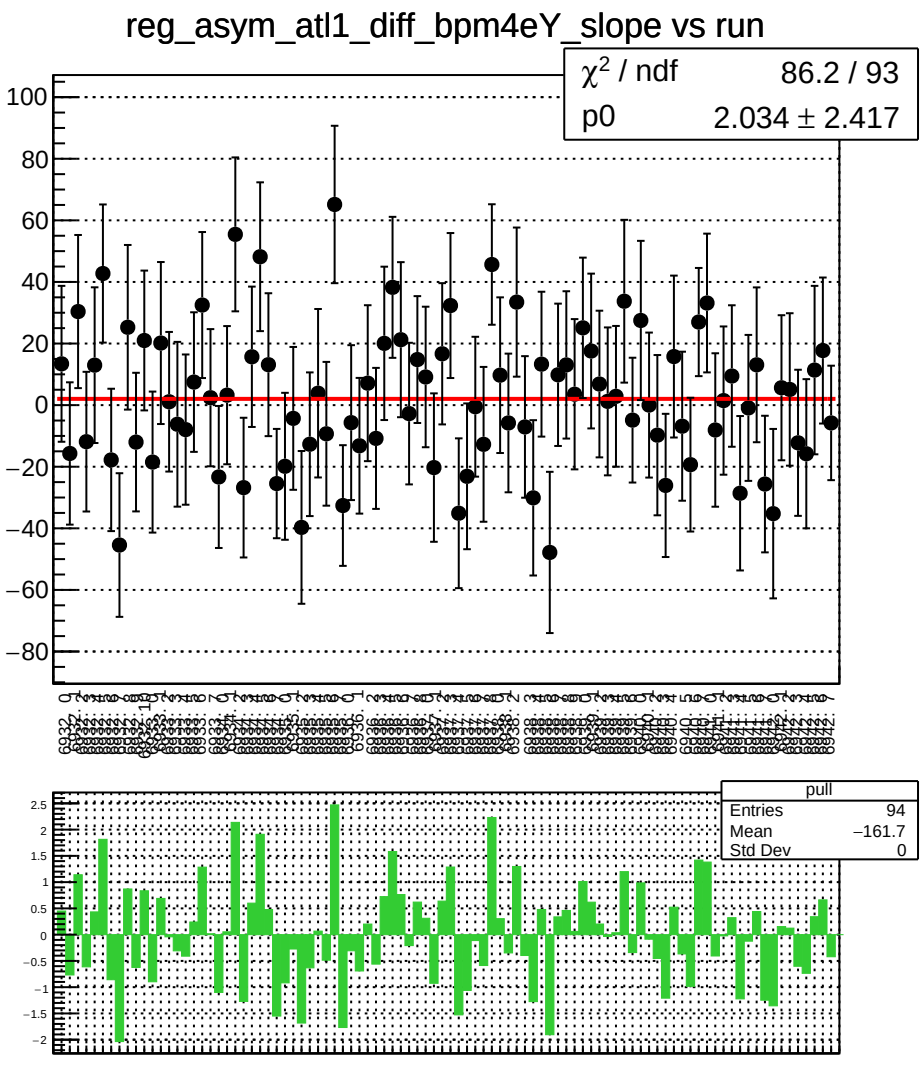

pull1D
Entries 94
Mean −0.008086
Std Dev 0.9427
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

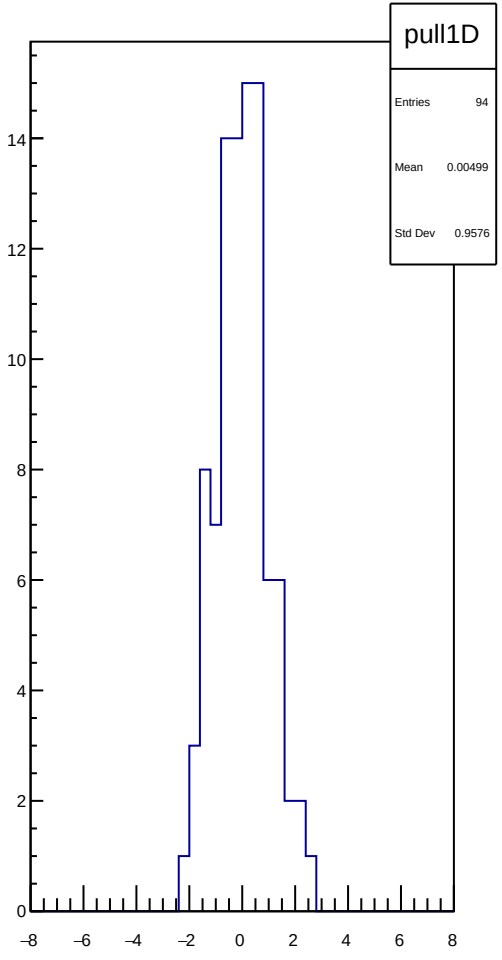

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 84.42 / 93
p0 −0.1068 ± 2.096
pull
Entries 94
Mean −128.9
Std Dev 0

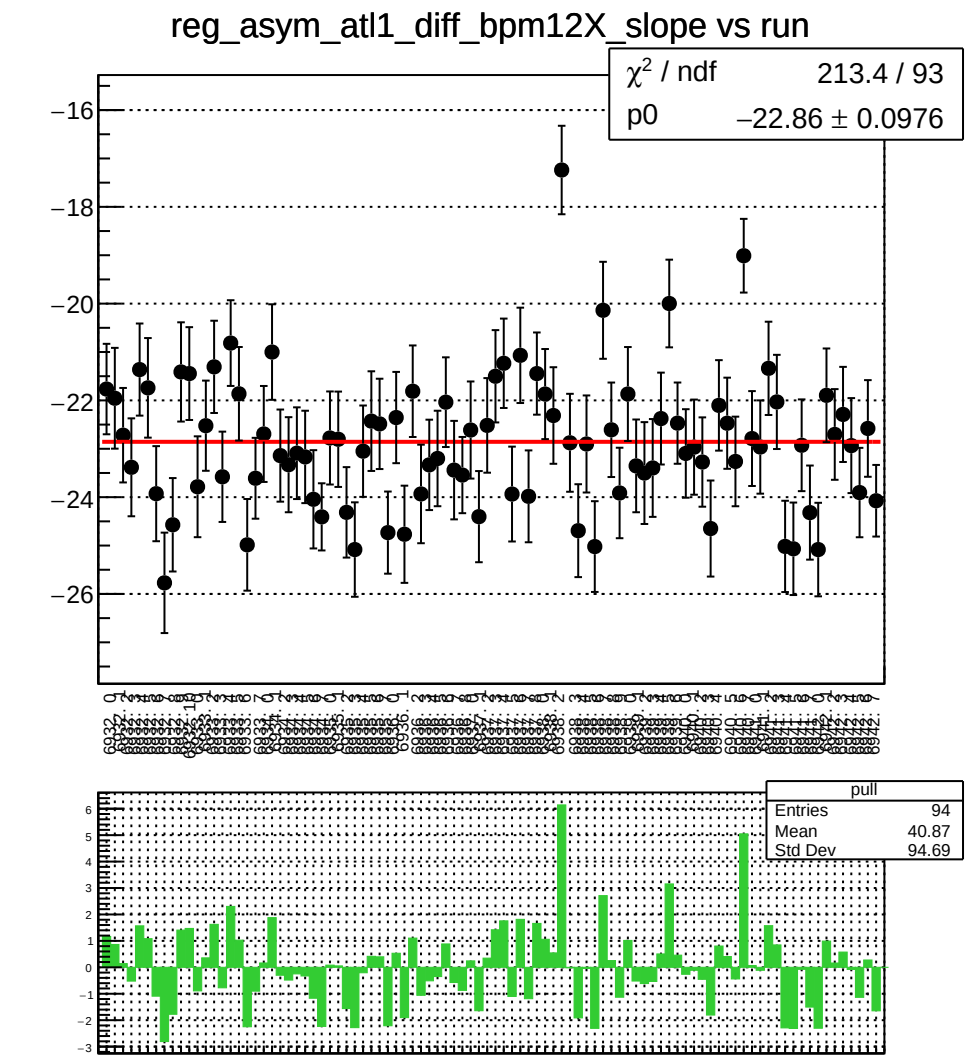

pull1D
Entries 94
Mean −0.009776
Std Dev 0.9476

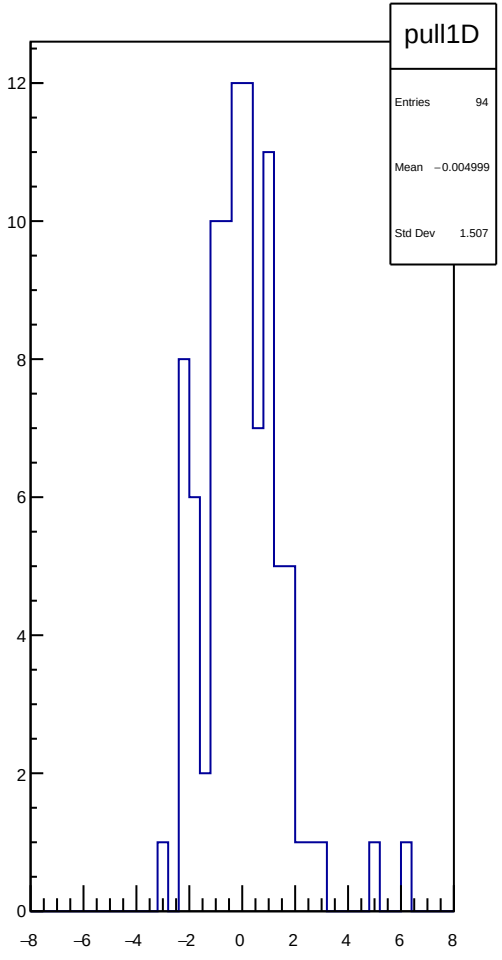

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 86.76 / 93
p0 62.91 ± 2.878
150
100
50
0
−50
pull
Entries 94
Mean −208.4
Std Dev 0
2
1
0
−1
−2
−3

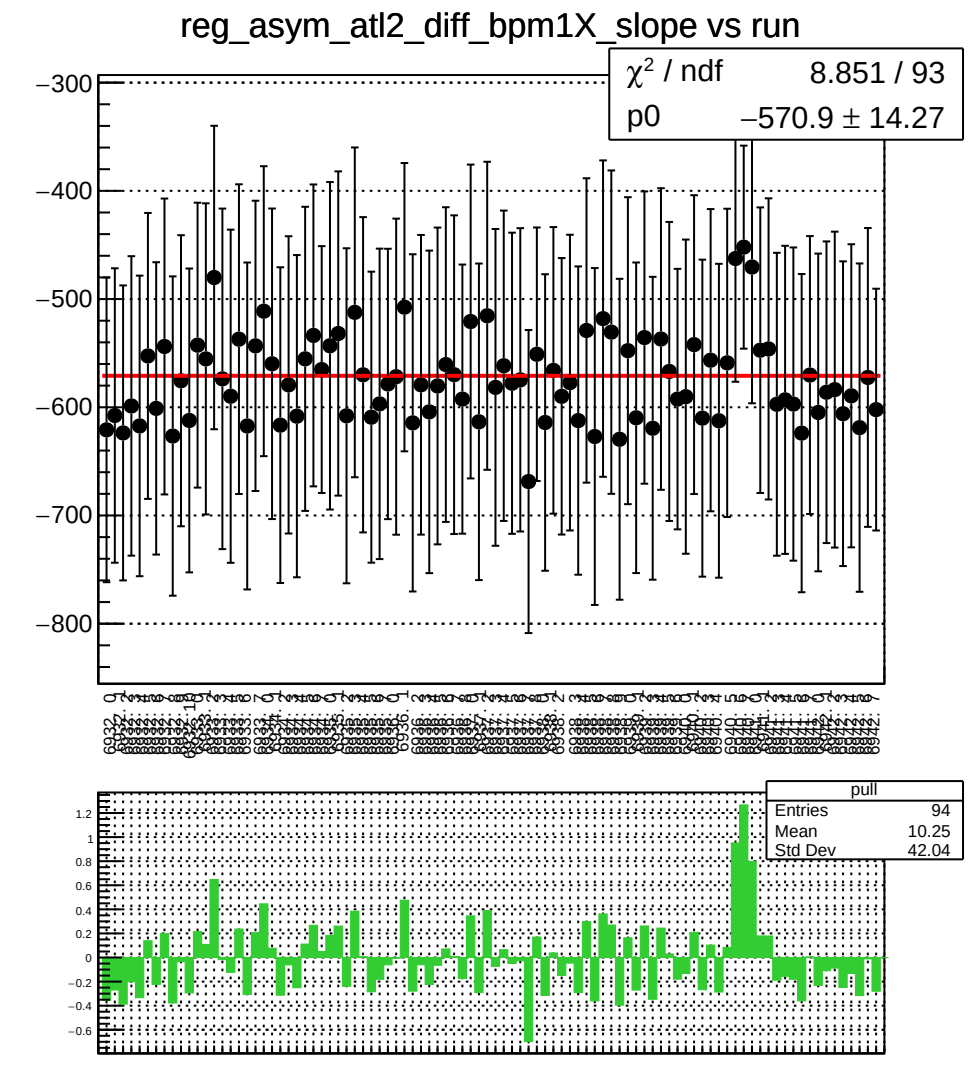

pull1D
Entries 94
Mean 0.007754
Std Dev 0.9607
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

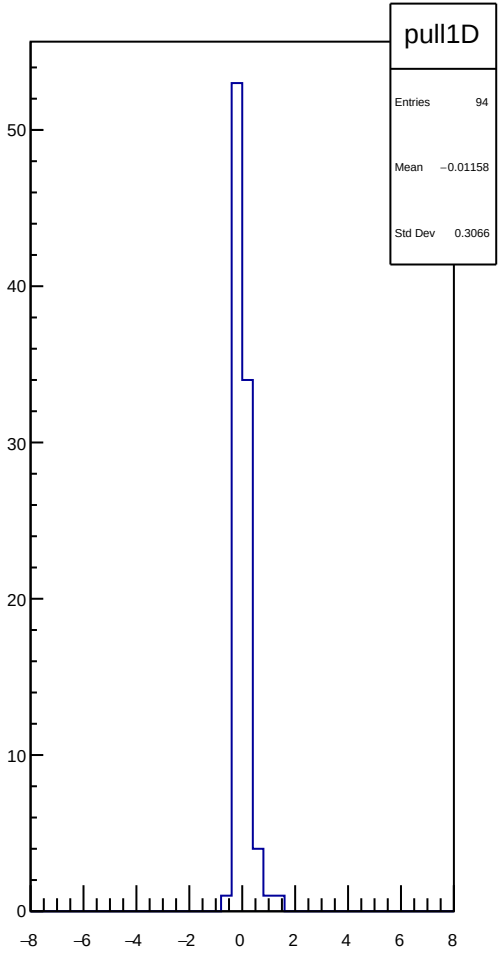

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 86.2 / 93
p0 2.034 ± 2.417
pull
Entries 94
Mean −161.7
Std Dev 0

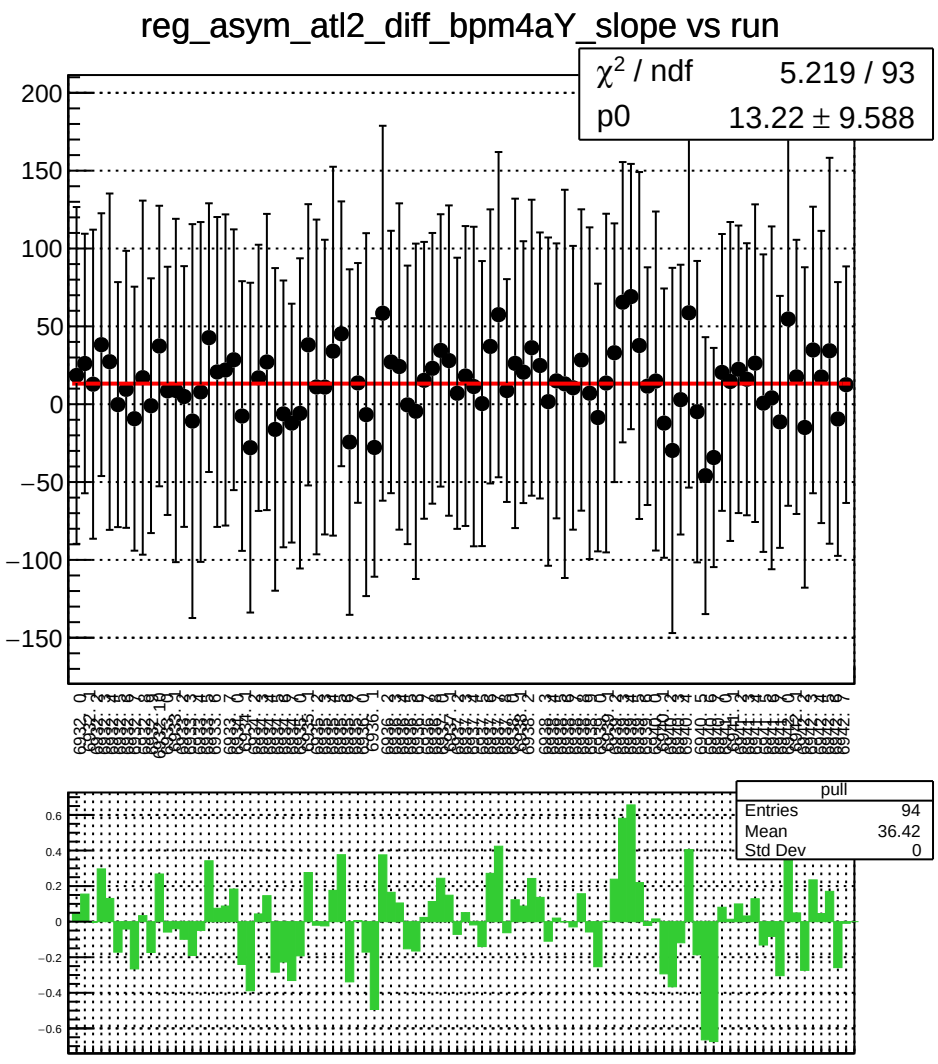

pull1D
Entries 94
Mean 0.00499
Std Dev 0.9576

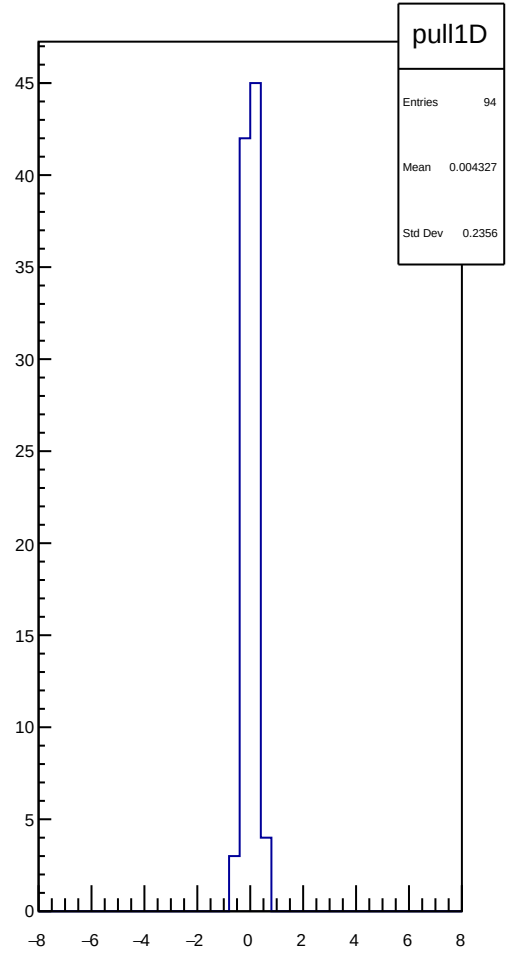

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 213.4 / 93
p0 −22.86 ± 0.0976
pull
Entries 94
Mean 40.87
Std Dev 94.69

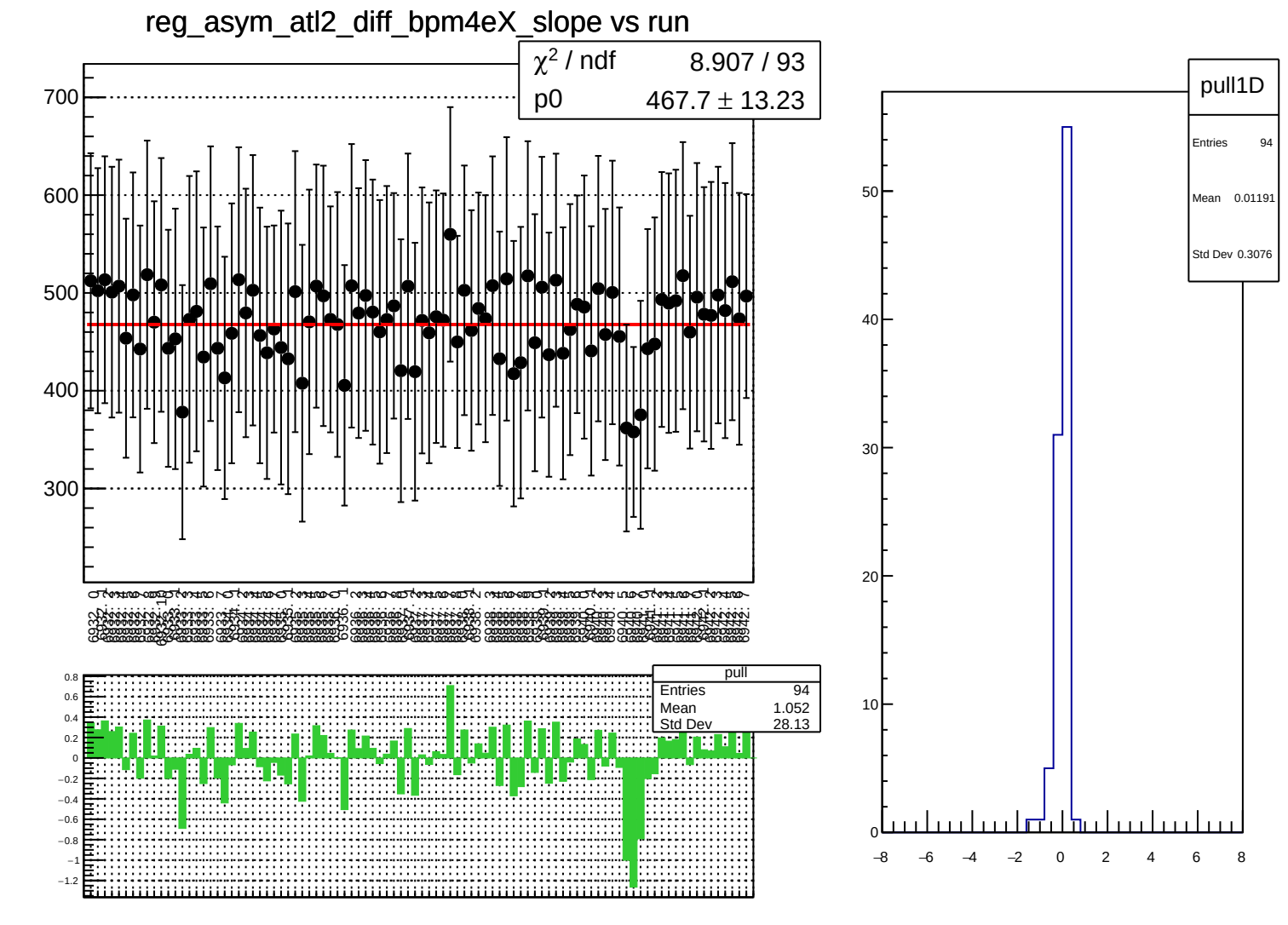

pull1D
Entries 94
Mean −0.004999
Std Dev 1.507

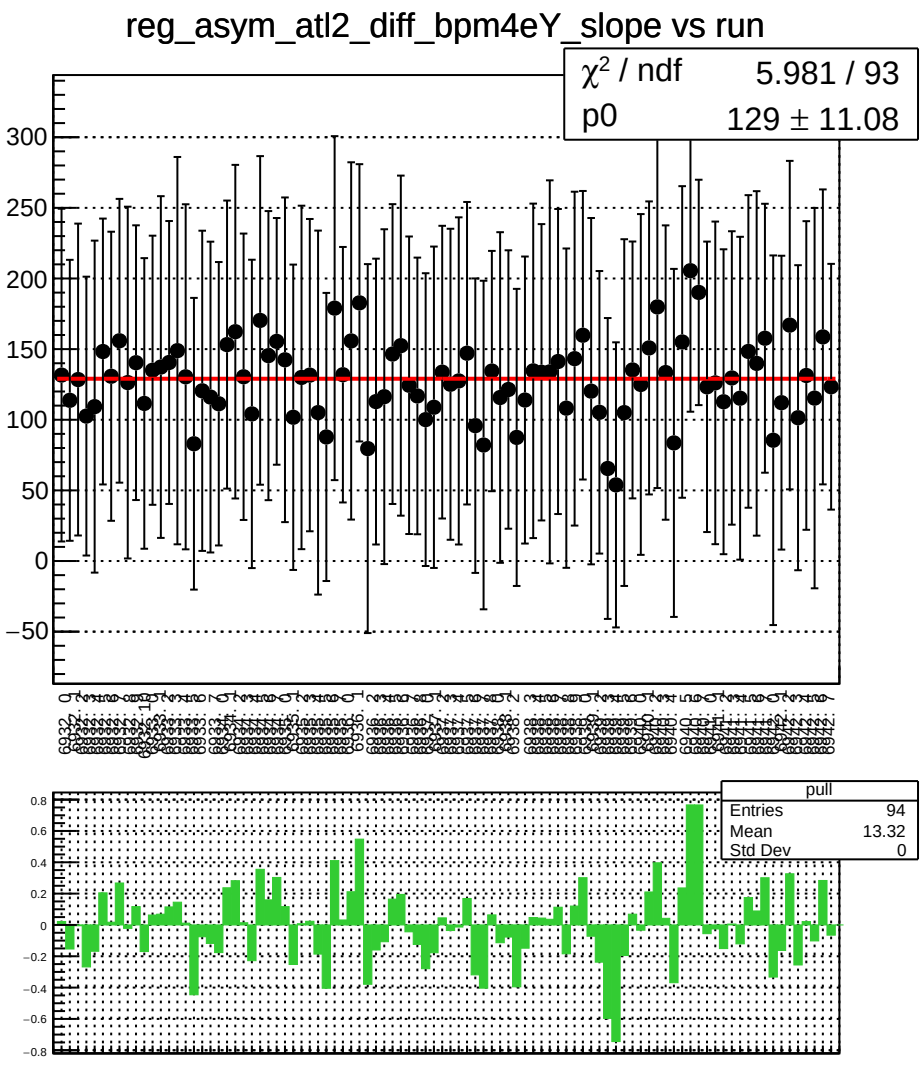

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 8.851 / 93
p0 −570.9 ± 14.27
−300
−400
−500
−600
−700
−800
pull
Entries 94
Mean 10.25
Std Dev 42.04
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

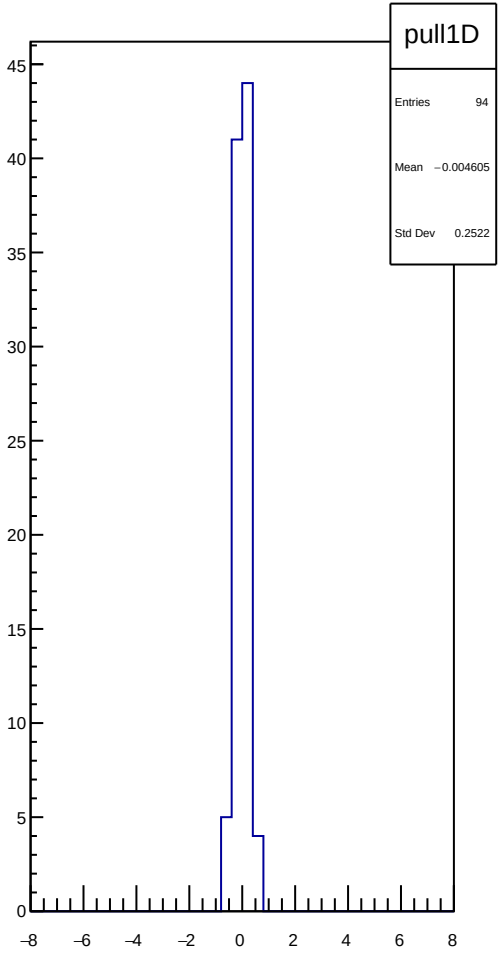

pull1D
Entries 94
Mean −0.01158
Std Dev 0.3066
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

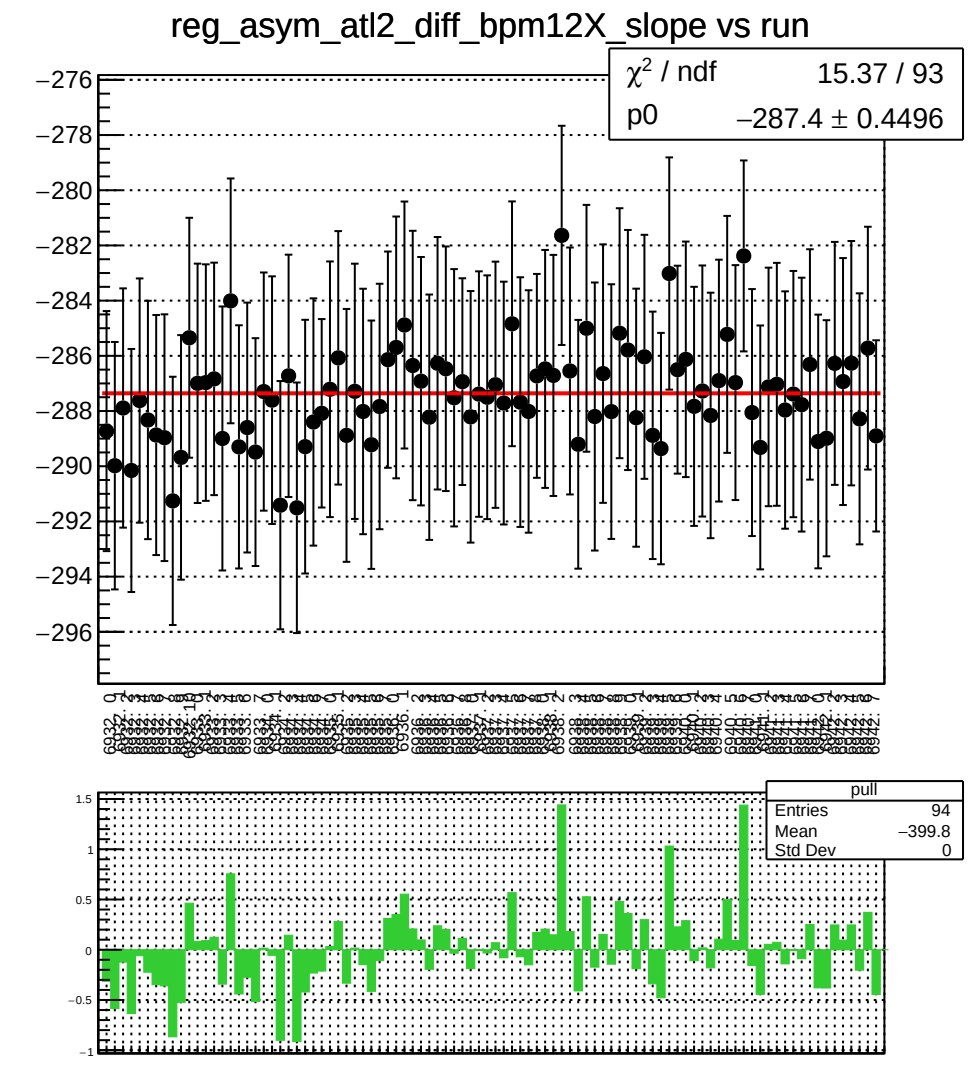

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 5.219 / 93
p0 13.22 ± 9.588
pull
Entries 94
Mean 36.42
Std Dev 0

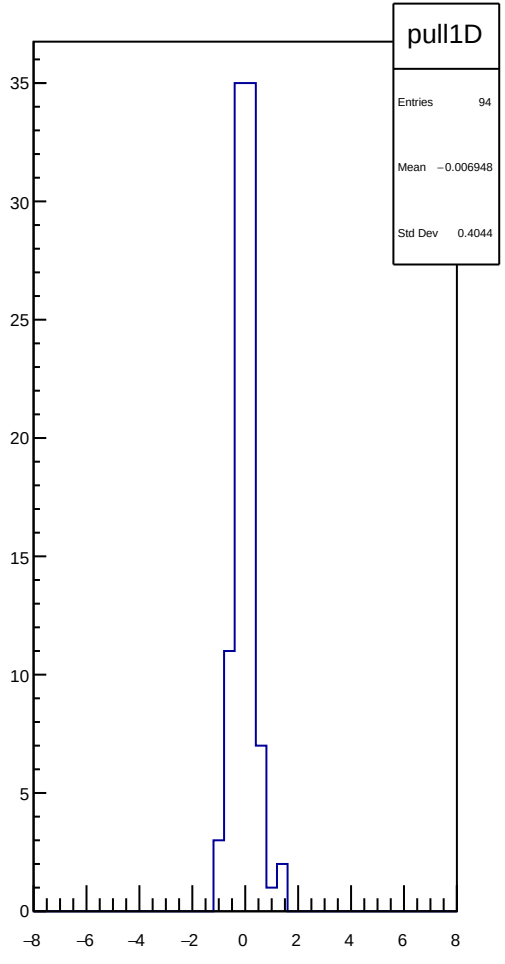

pull1D
Entries 94
Mean 0.004327
Std Dev 0.2356

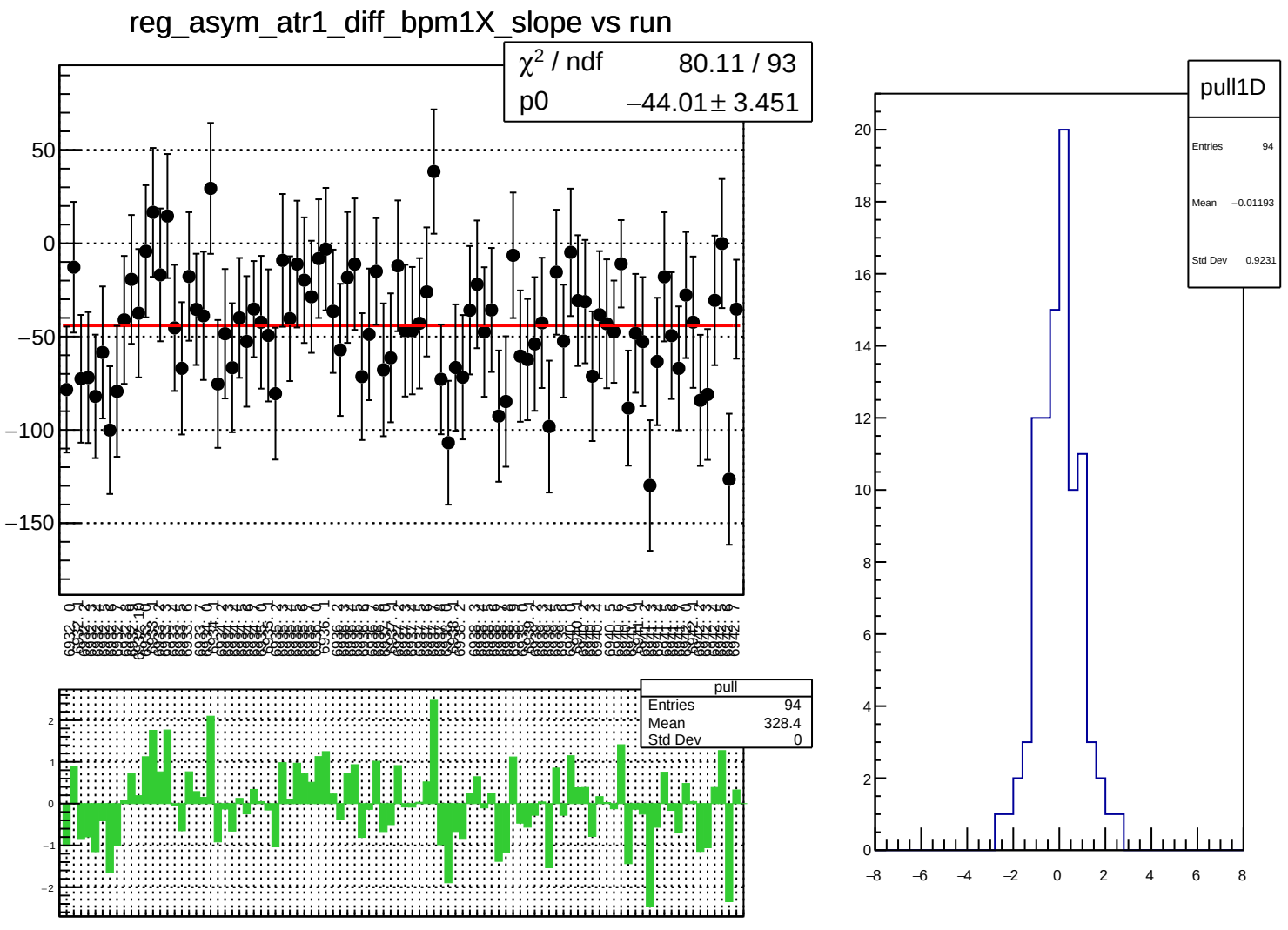

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 8.907 / 93
p0 467.7 ± 13.23
700
600
500
400
300
pull
Entries 94
Mean 1.052
Std Dev 28.13
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.01191
Std Dev 0.3076
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

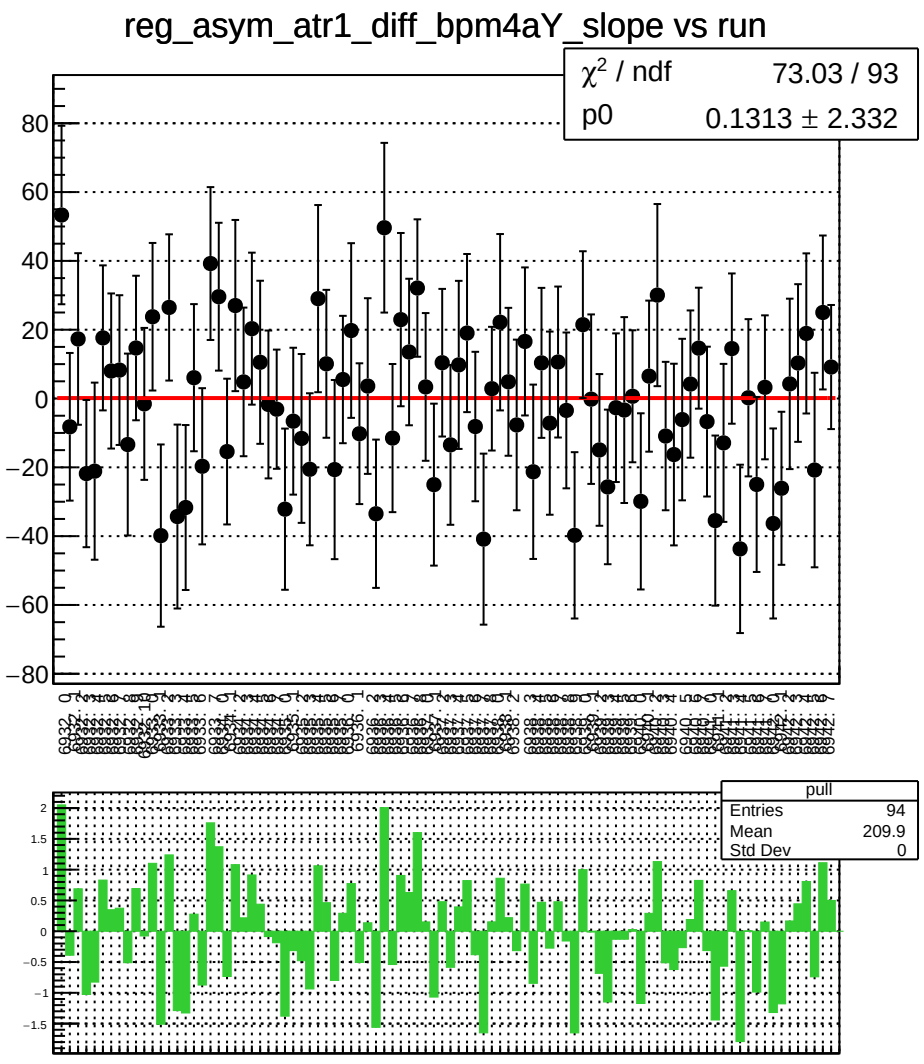

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.981 / 93
p0 129 ± 11.08
pull
Entries 94
Mean 13.32
Std Dev 0

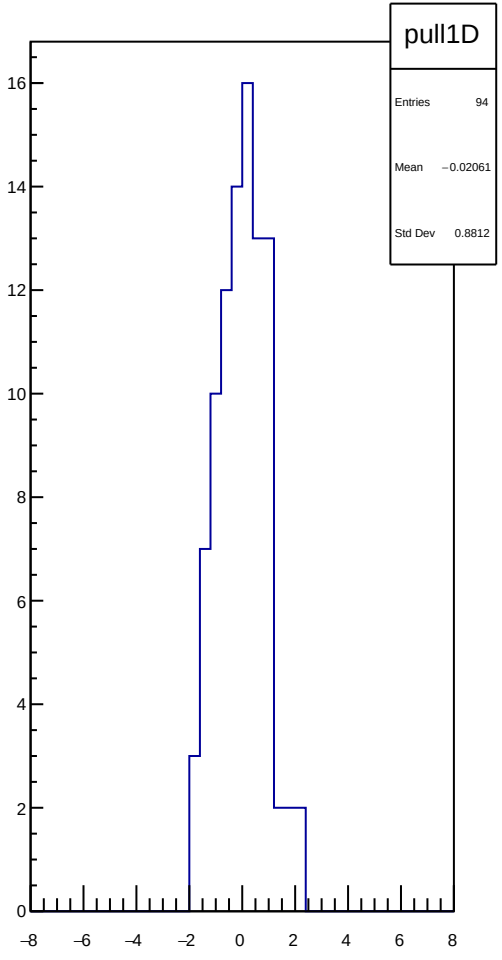

pull1D
Entries 94
Mean −0.004605
Std Dev 0.2522

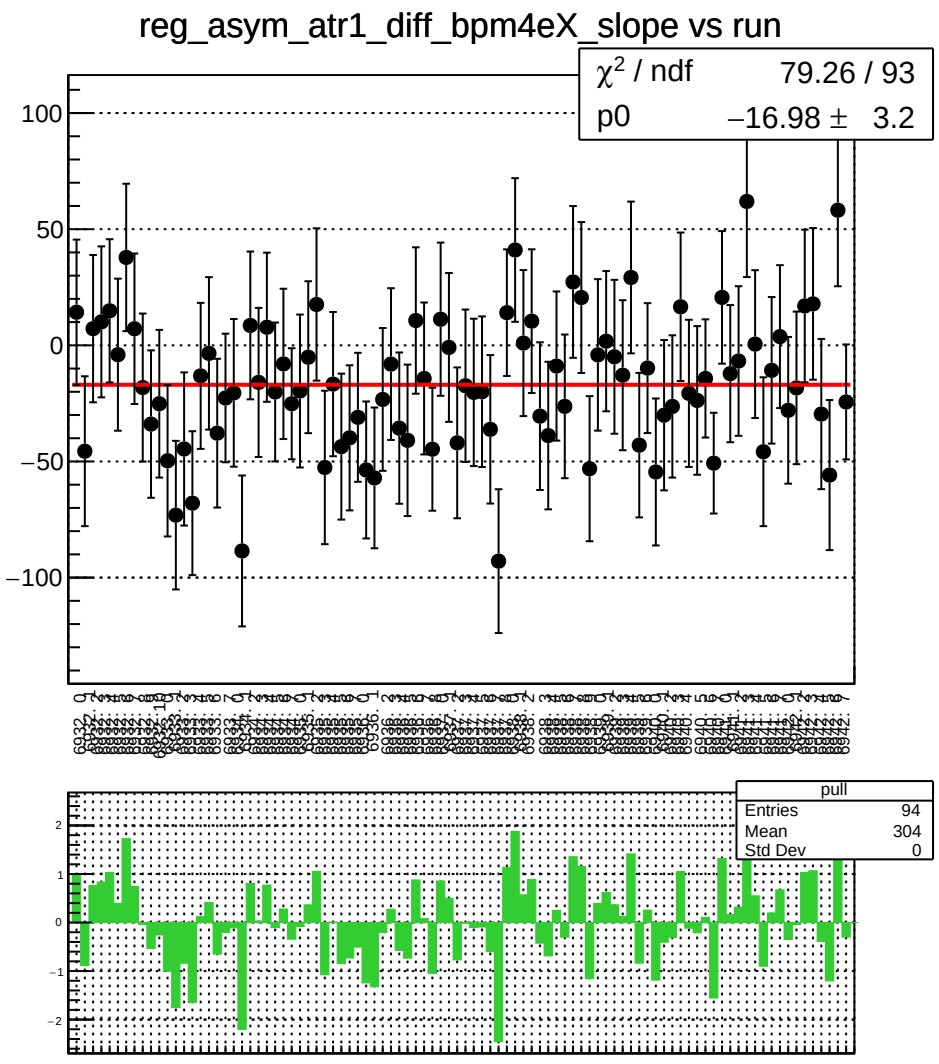

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.37 / 93
p0 −287.4 ± 0.4496
pull
Entries 94
Mean −399.8
Std Dev 0

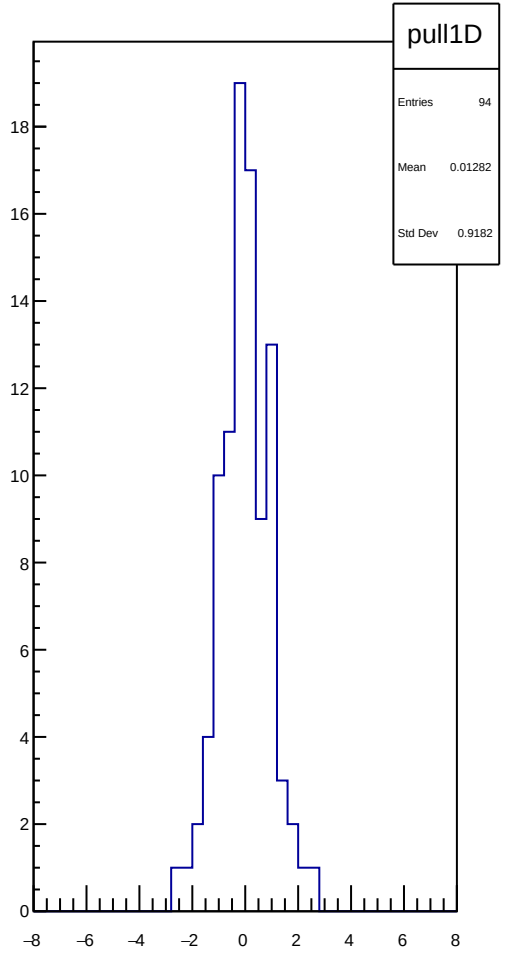

pull1D
Entries 94
Mean −0.006948
Std Dev 0.4044

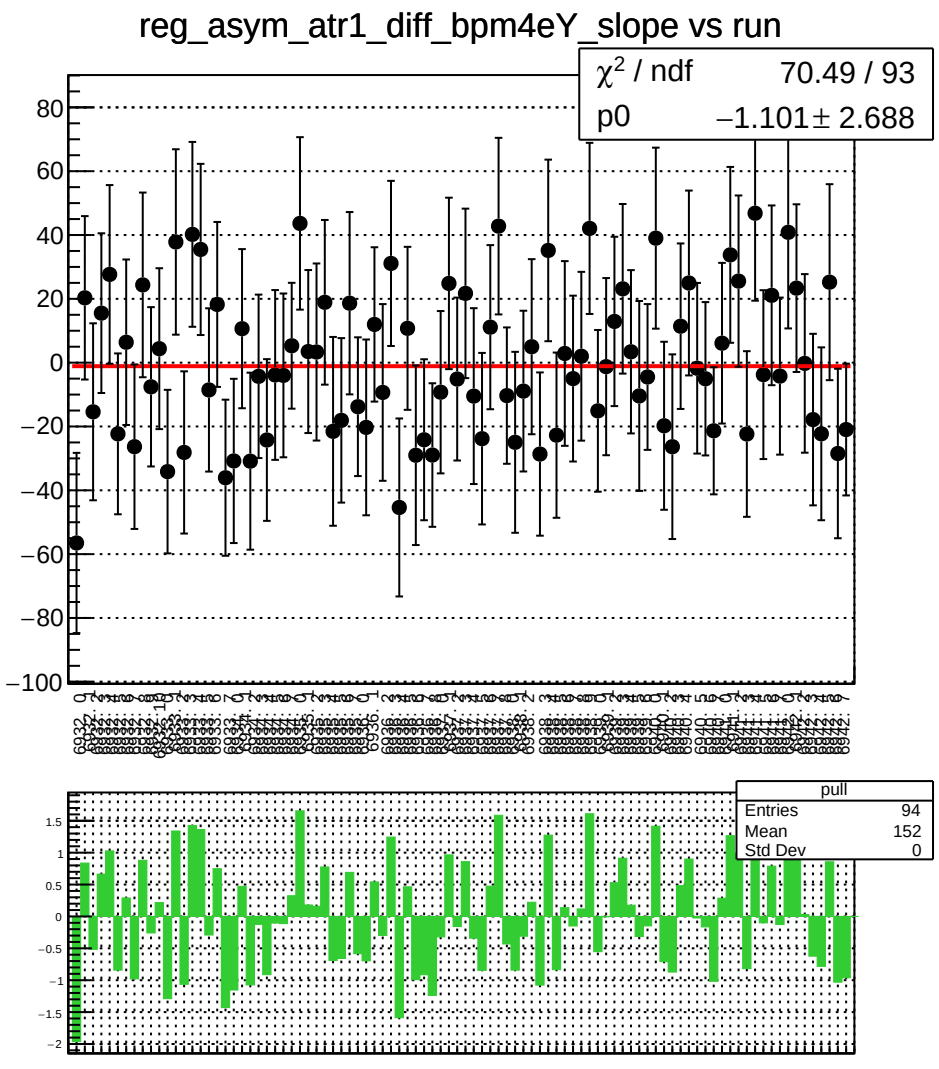

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 80.11 / 93
p0 −44.01 ± 3.451
50
0
−50
−100
−150
pull
Entries 94
Mean 328.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01193
Std Dev 0.9231
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

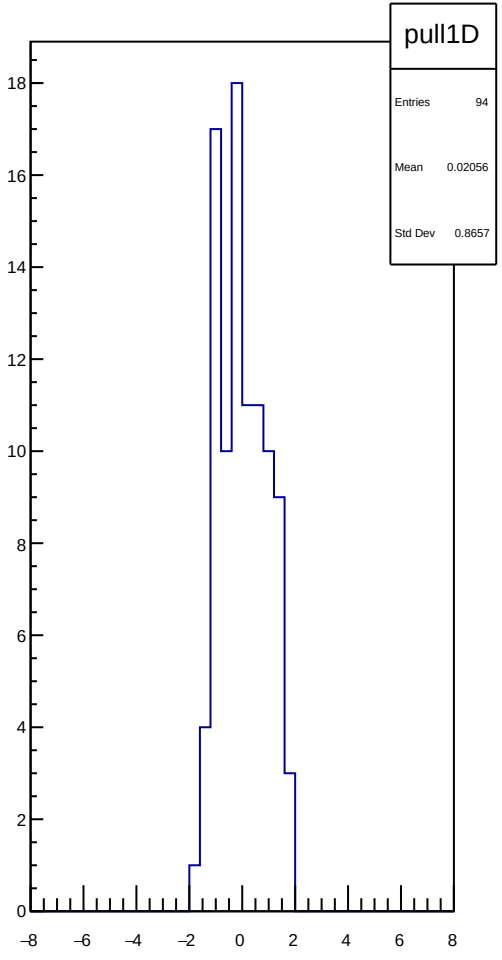

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 73.03 / 93
p0 0.1313 ± 2.332
pull
Entries 94
Mean 209.9
Std Dev 0

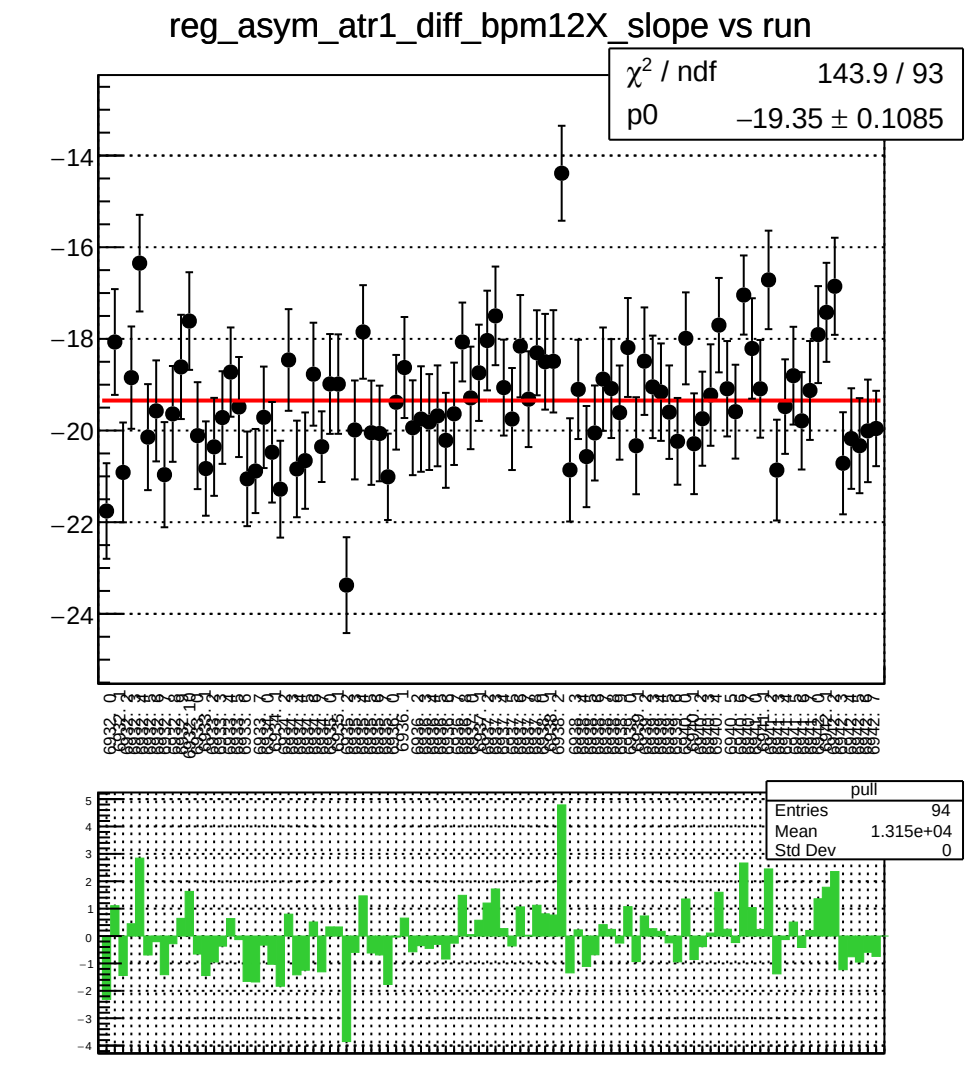

pull1D
Entries 94
Mean −0.02061
Std Dev 0.8812

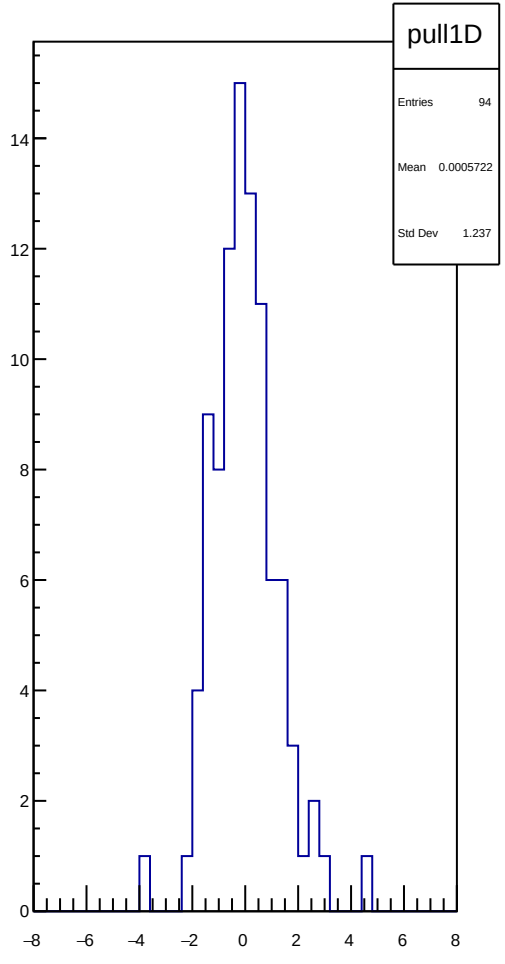

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 79.26 / 93
p0 −16.98 ± 3.2
100
50
0
−50
−100
pull
Entries 94
Mean 304
Std Dev 0
2
1
0
−1
−2

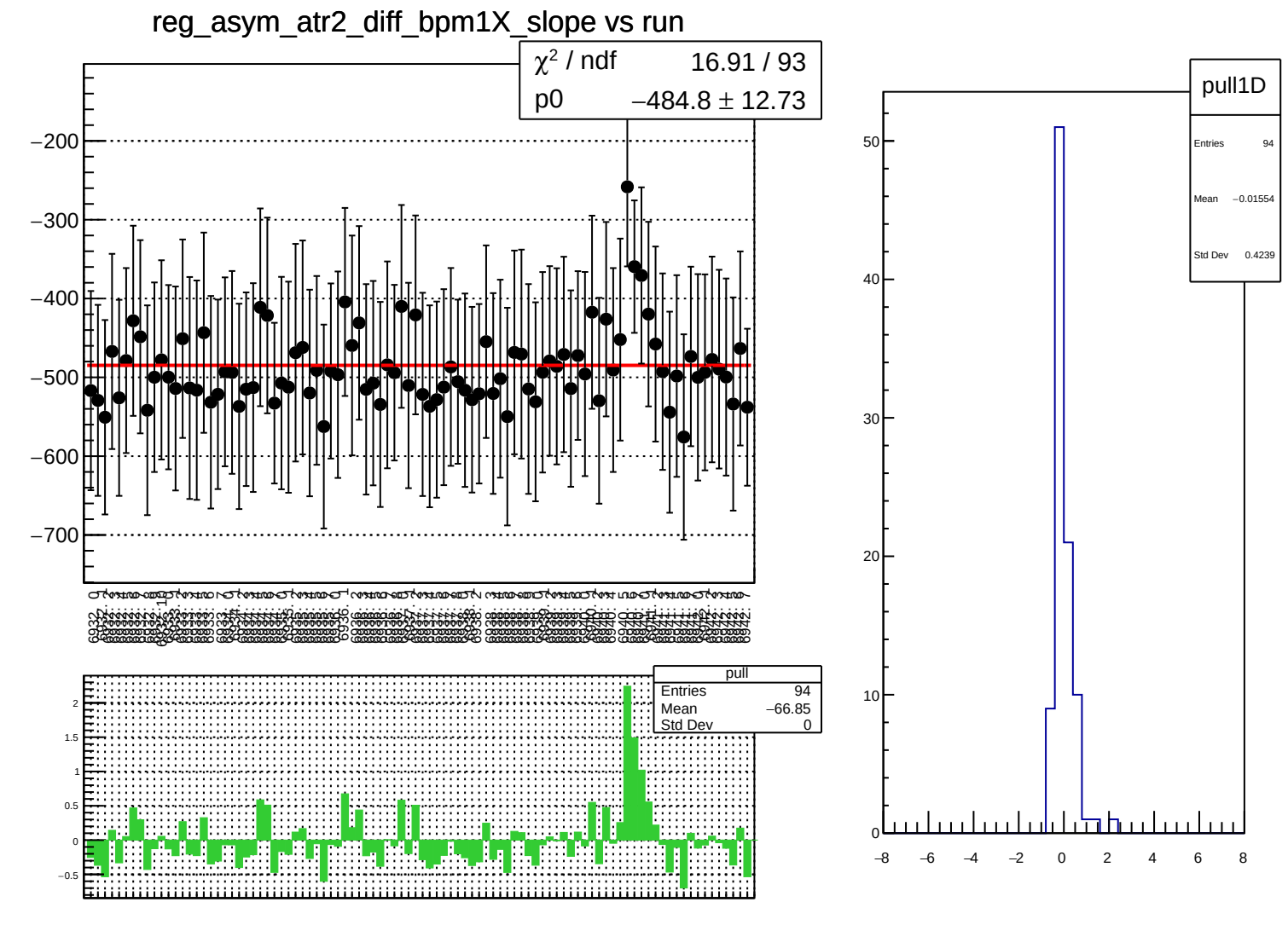

pull1D
Entries 94
Mean 0.01282
Std Dev 0.9182
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

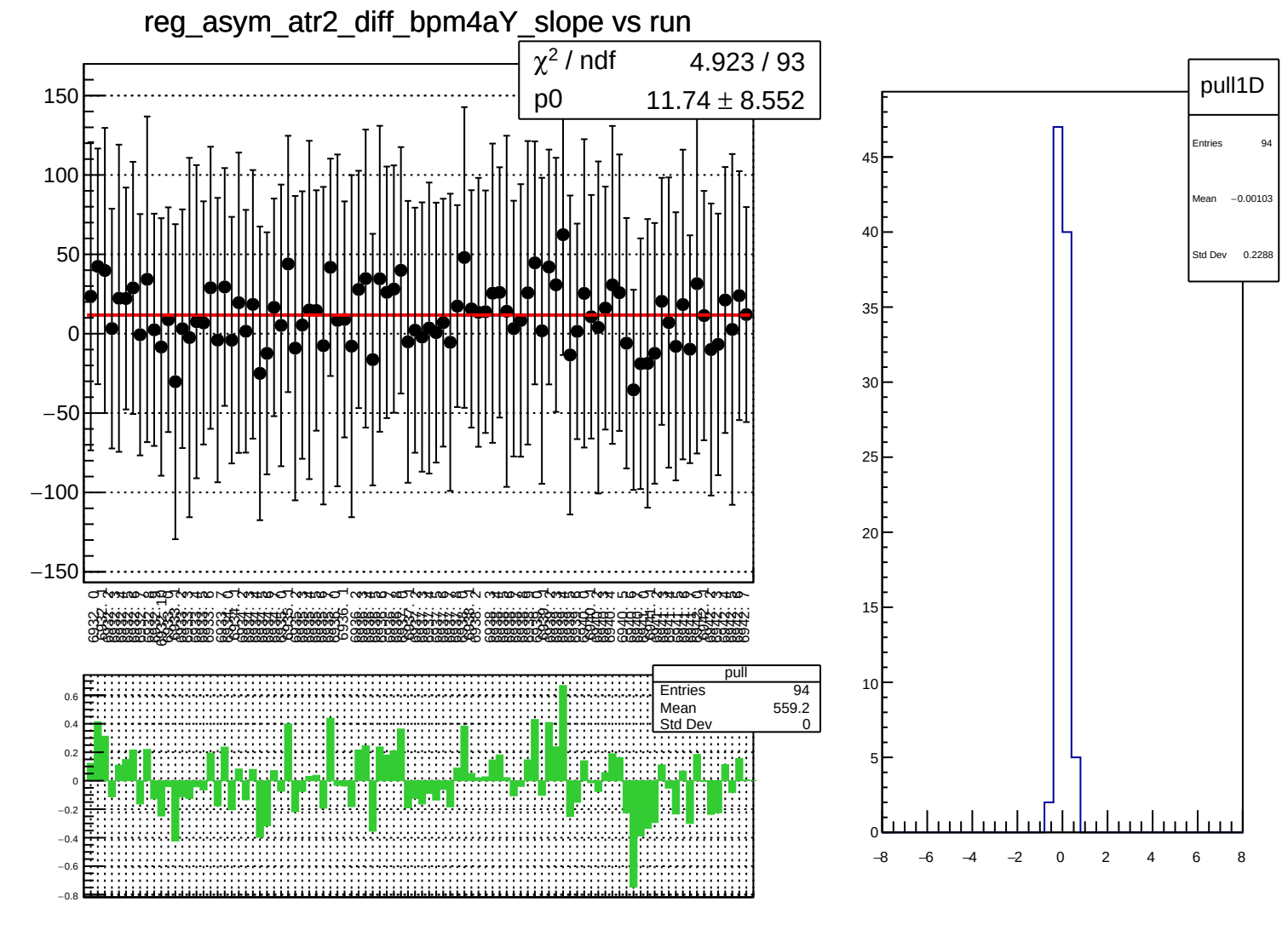

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 70.49 / 93
p0 −1.101 ± 2.688
pull
Entries 94
Mean 152
Std Dev 0

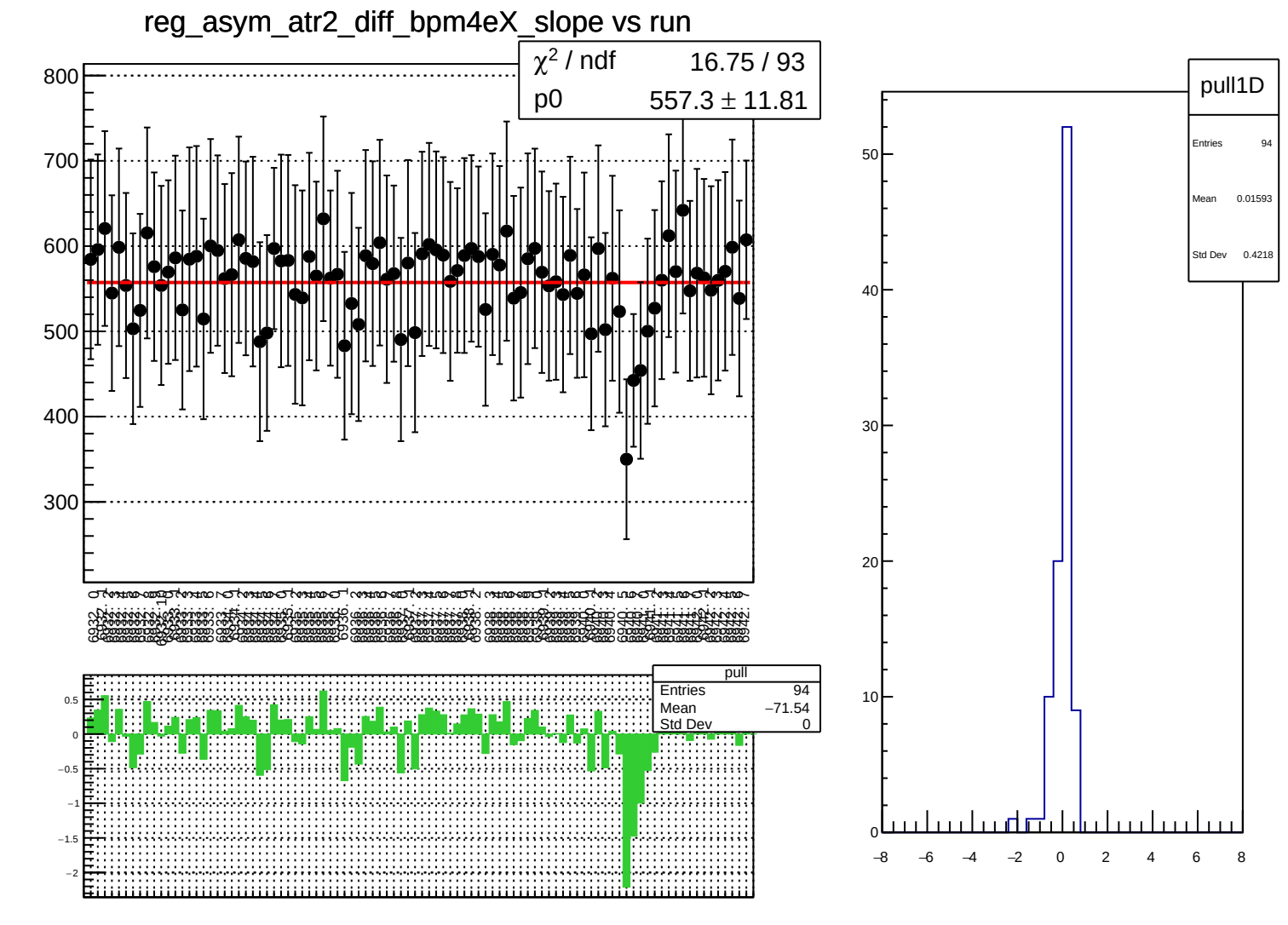

pull1D
Entries 94
Mean 0.02056
Std Dev 0.8657

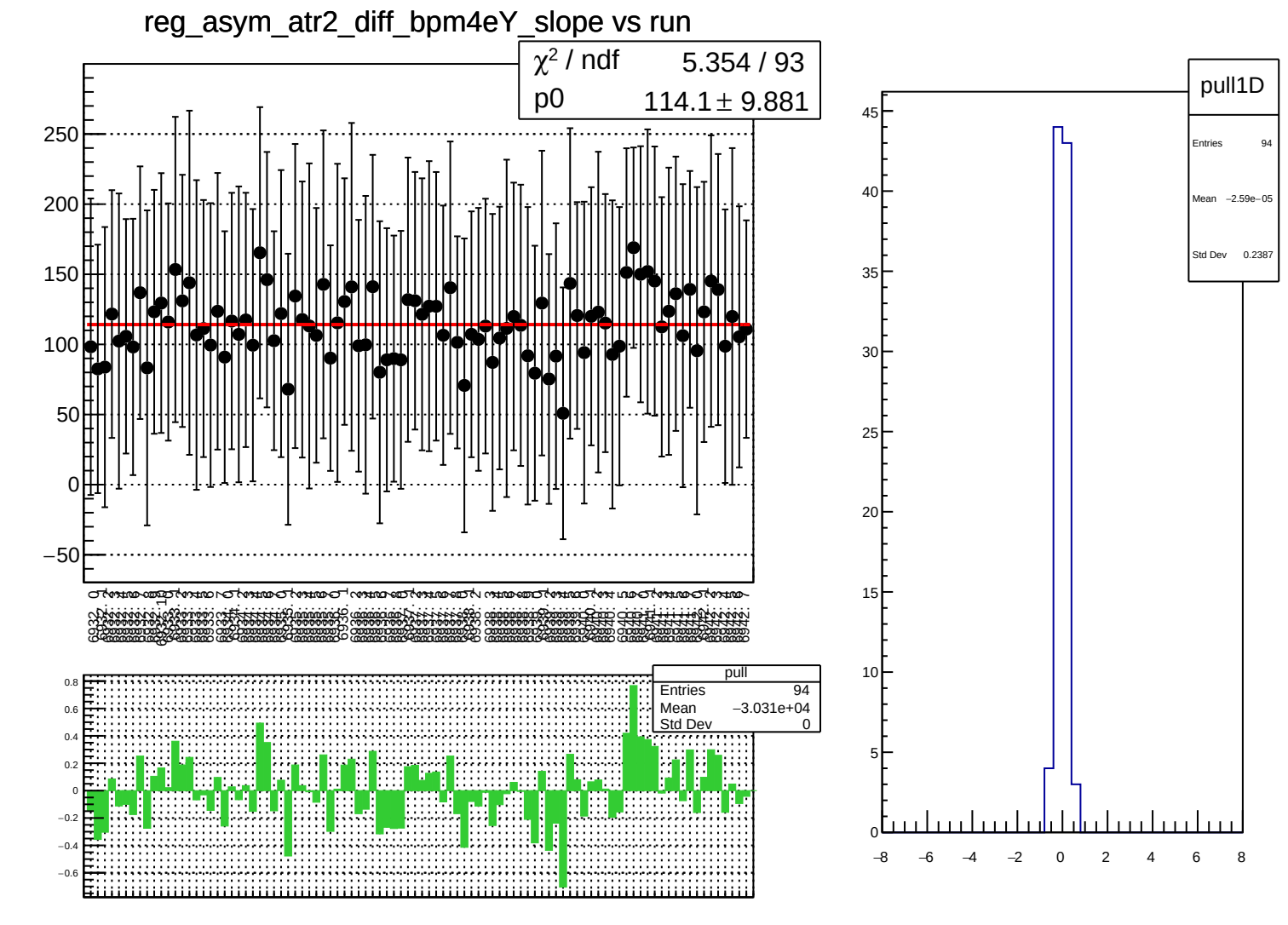

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 143.9 / 93
p0 −19.35 ± 0.1085
−14
−16
−18
−20
−22
−24
pull
Entries 94
Mean 1.315e+04
Std Dev 0
5
4
3
2
1
0
−1
−2
−3
−4

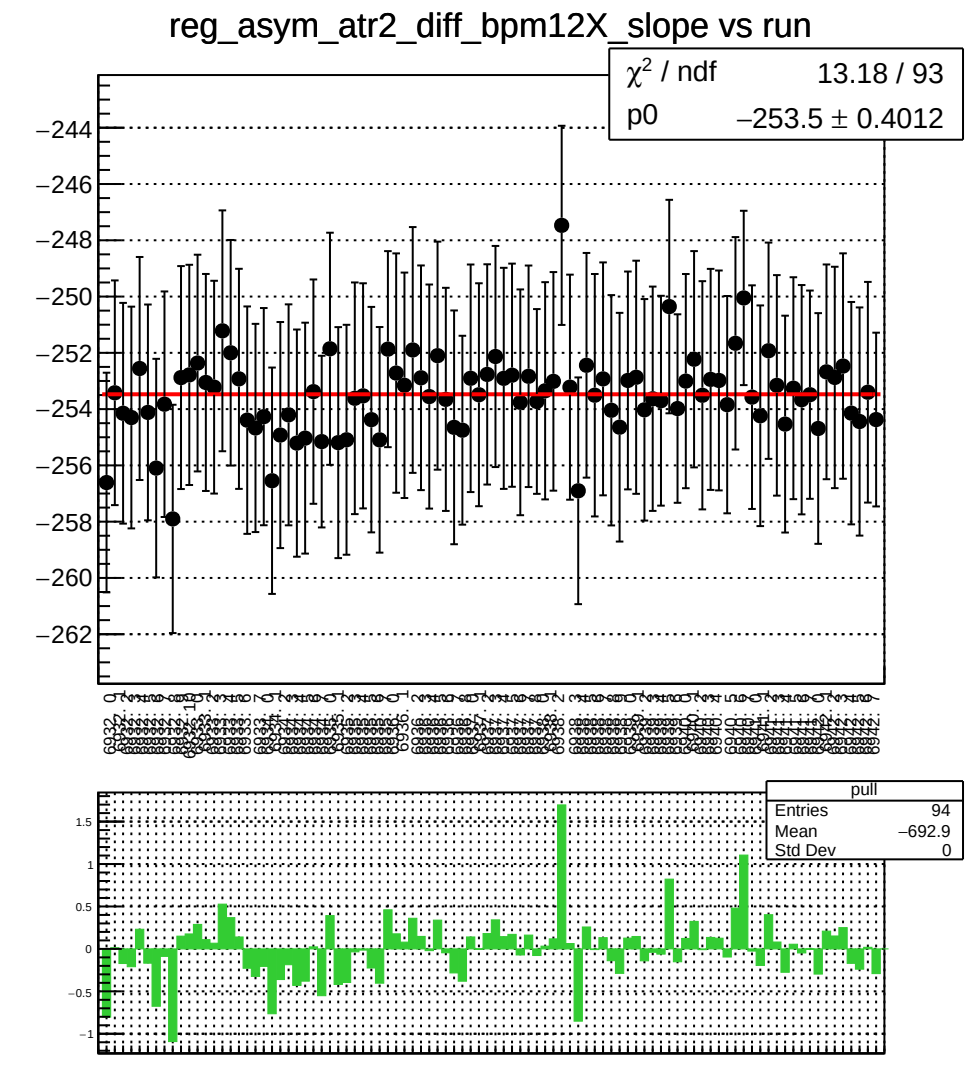

pull1D
Entries 94
Mean 0.0005722
Std Dev 1.237
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

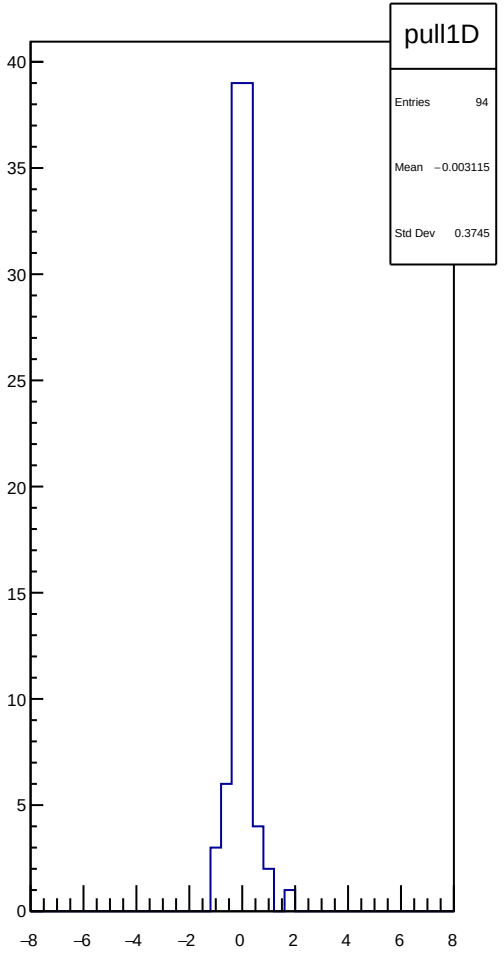

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 16.91 / 93
p0 −484.8 ± 12.73
−200
−300
−400
−500
−600
−700
pull
Entries 94
Mean −66.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01554
Std Dev 0.4239
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

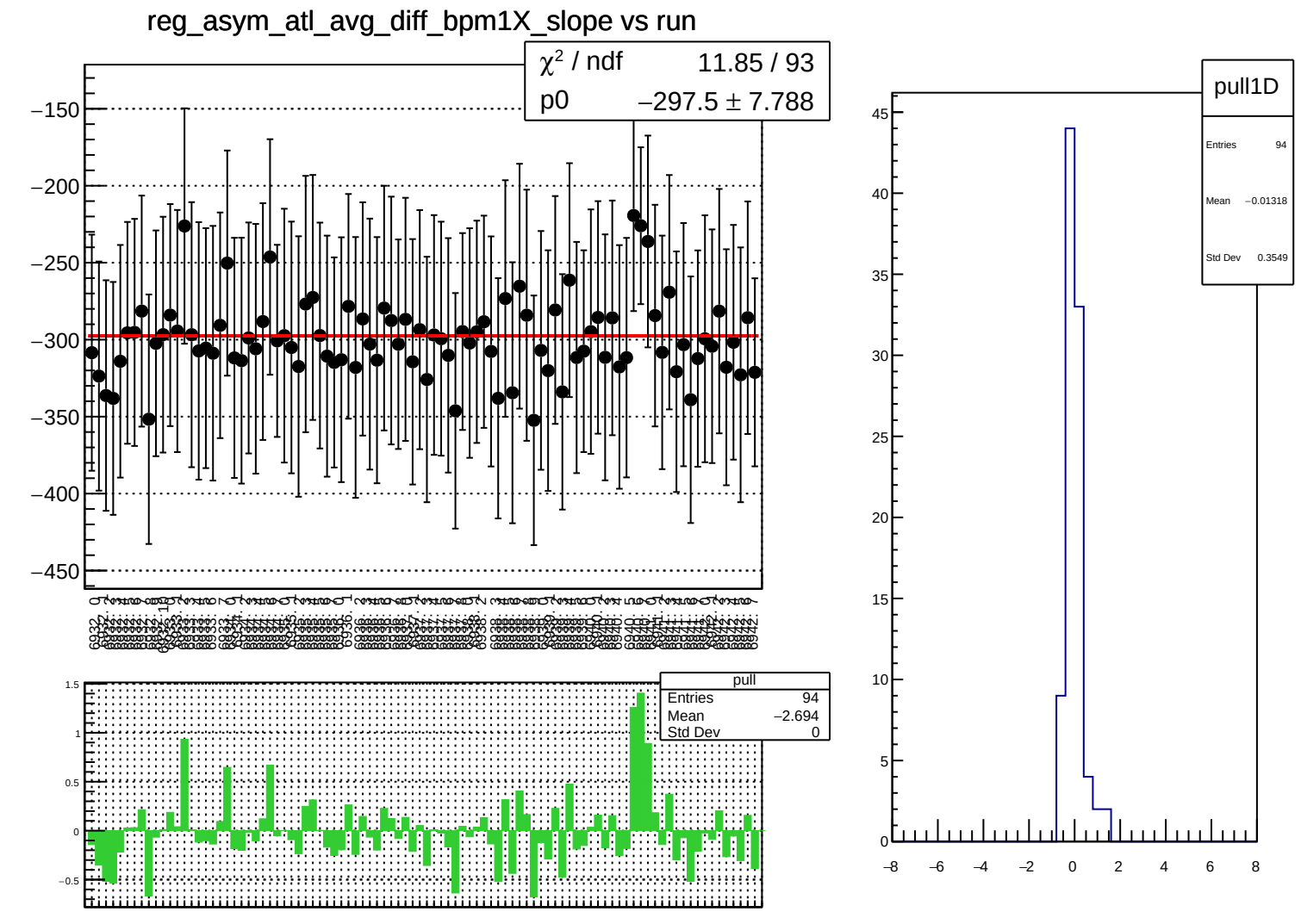

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 4.923 / 93
p0 11.74 ± 8.552
pull
Entries 94
Mean 559.2
Std Dev 0
pull1D
Entries 94
Mean −0.00103
Std Dev 0.2288

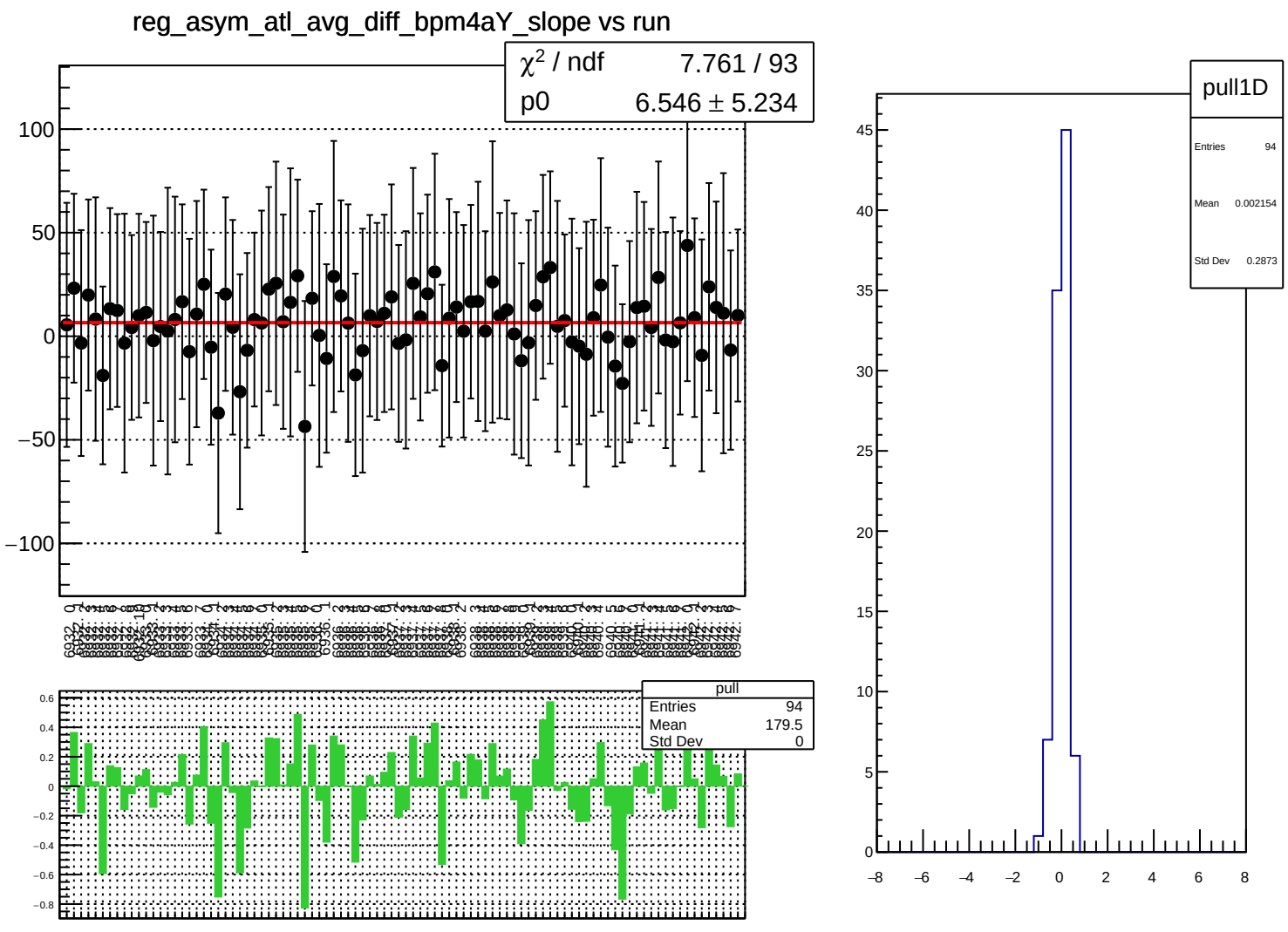

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 16.75 / 93
p0 557.3 ± 11.81
800
700
600
500
400
300
pull
Entries 94
Mean −71.54
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01593
Std Dev 0.4218
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

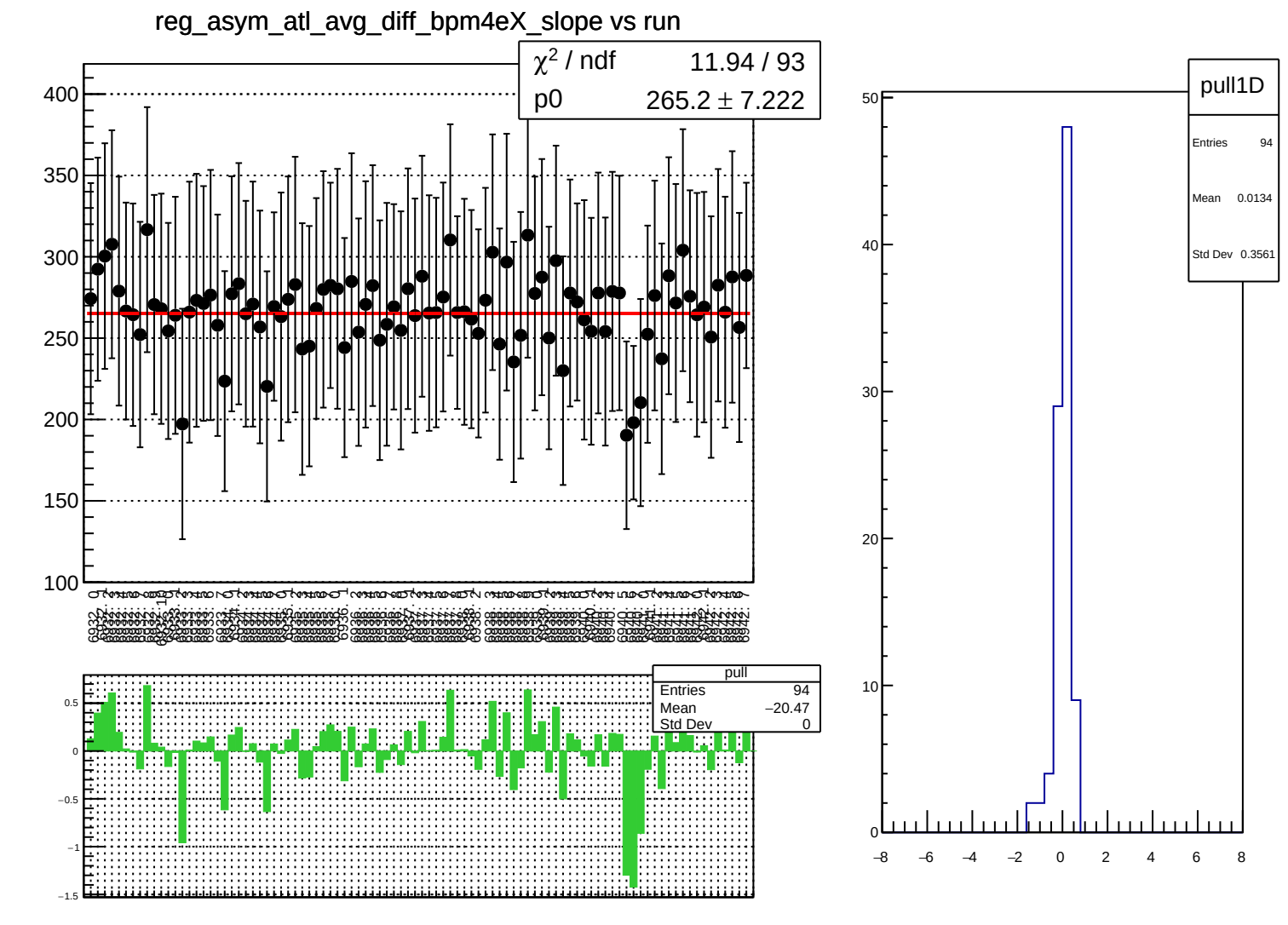

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 5.354 / 93
p0 114.1 ± 9.881
pull
Entries 94
Mean −3.031e+04
Std Dev 0
pull1D
Entries 94
Mean −2.59e−05
Std Dev 0.2387

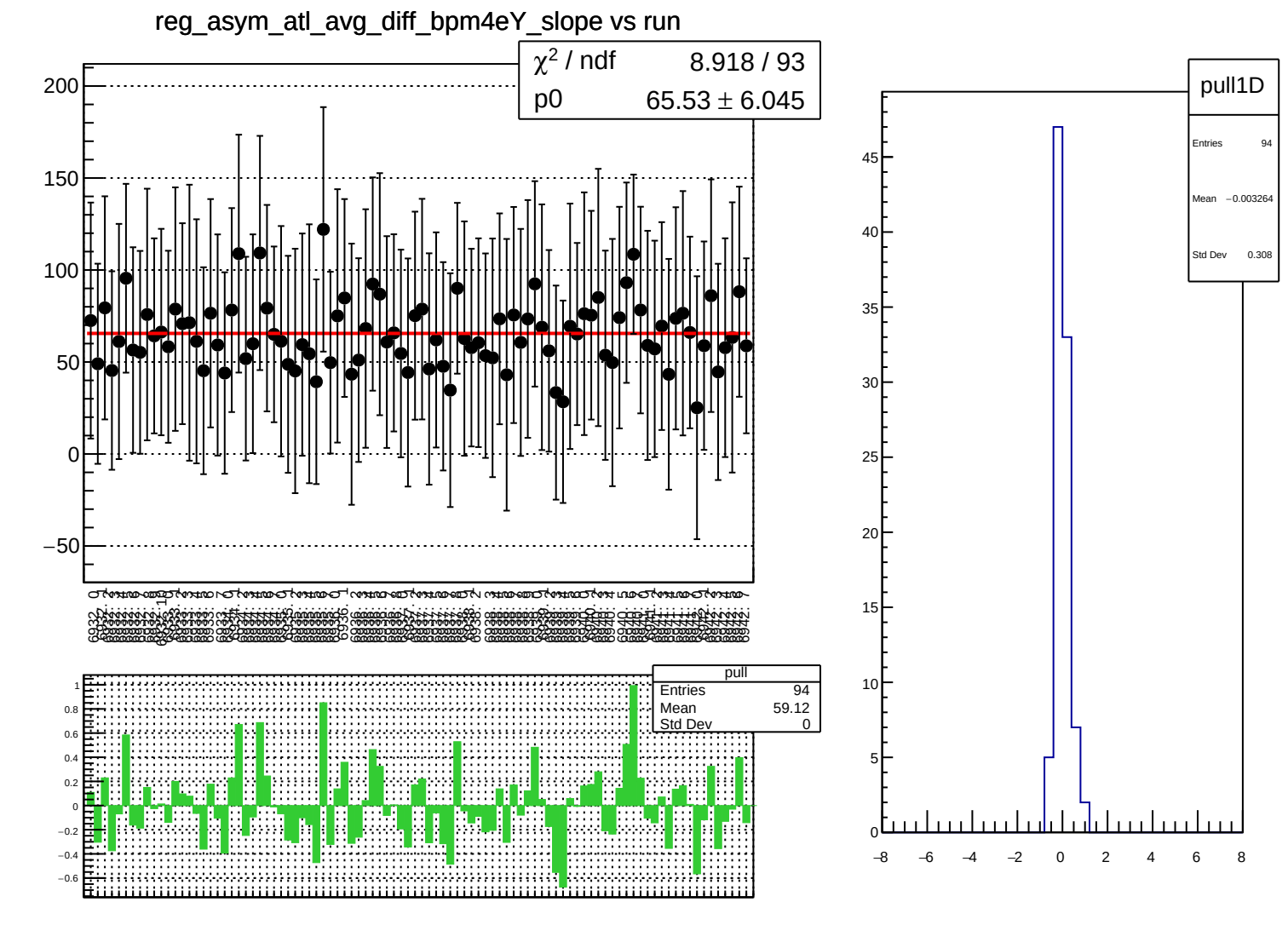

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 13.18 / 93
p0 −253.5 ± 0.4012
pull
Entries 94
Mean −692.9
Std Dev 0

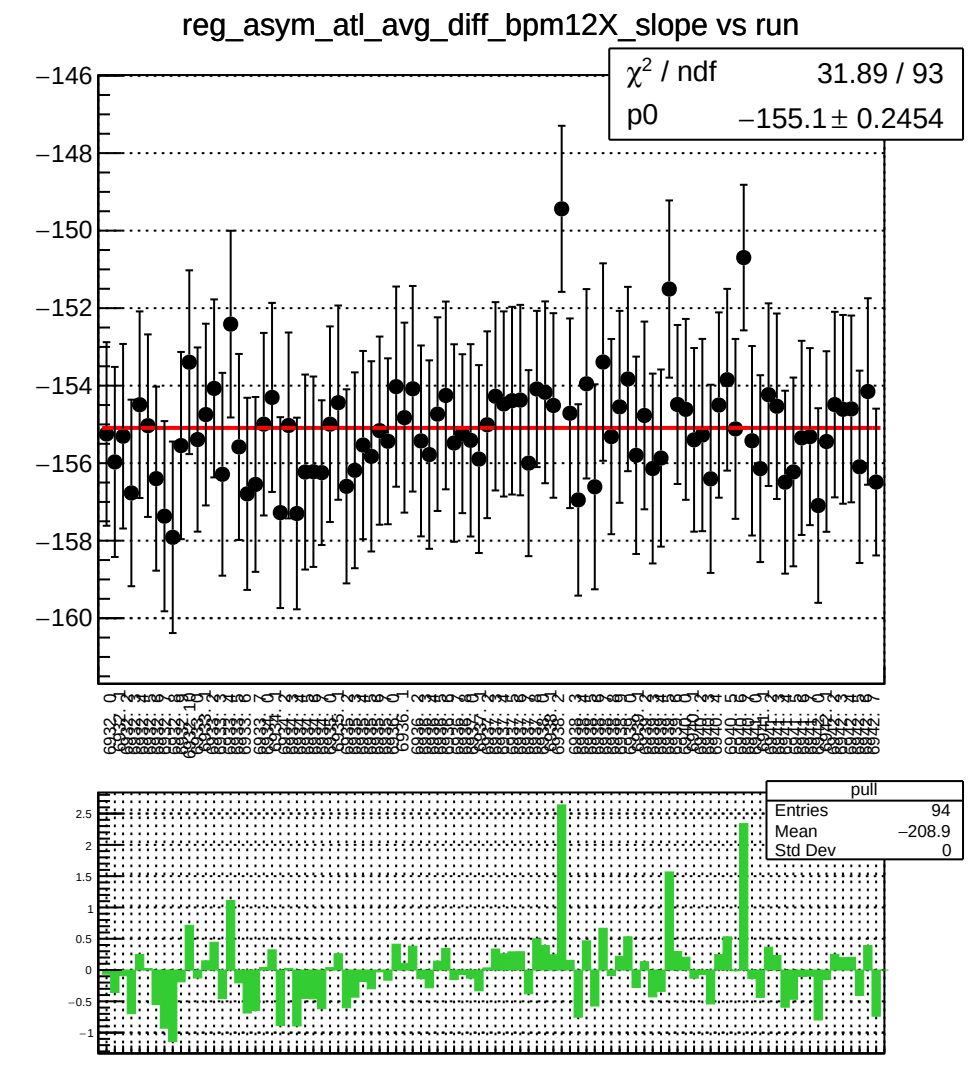

pull1D
Entries 94
Mean −0.003115
Std Dev 0.3745

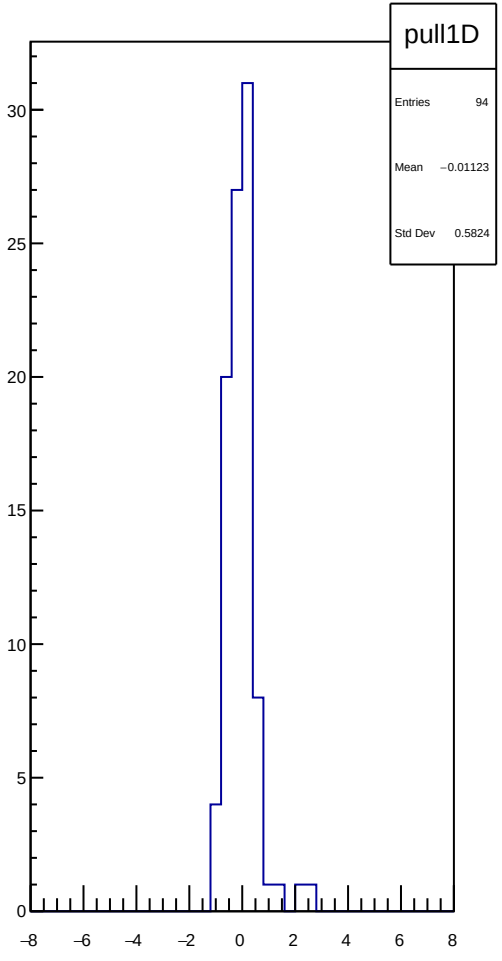

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 11.85 / 93
p0 −297.5 ± 7.788
−150
−200
−250
−300
−350
−400
−450
pull
Entries 94
Mean −2.694
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01318
Std Dev 0.3549
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

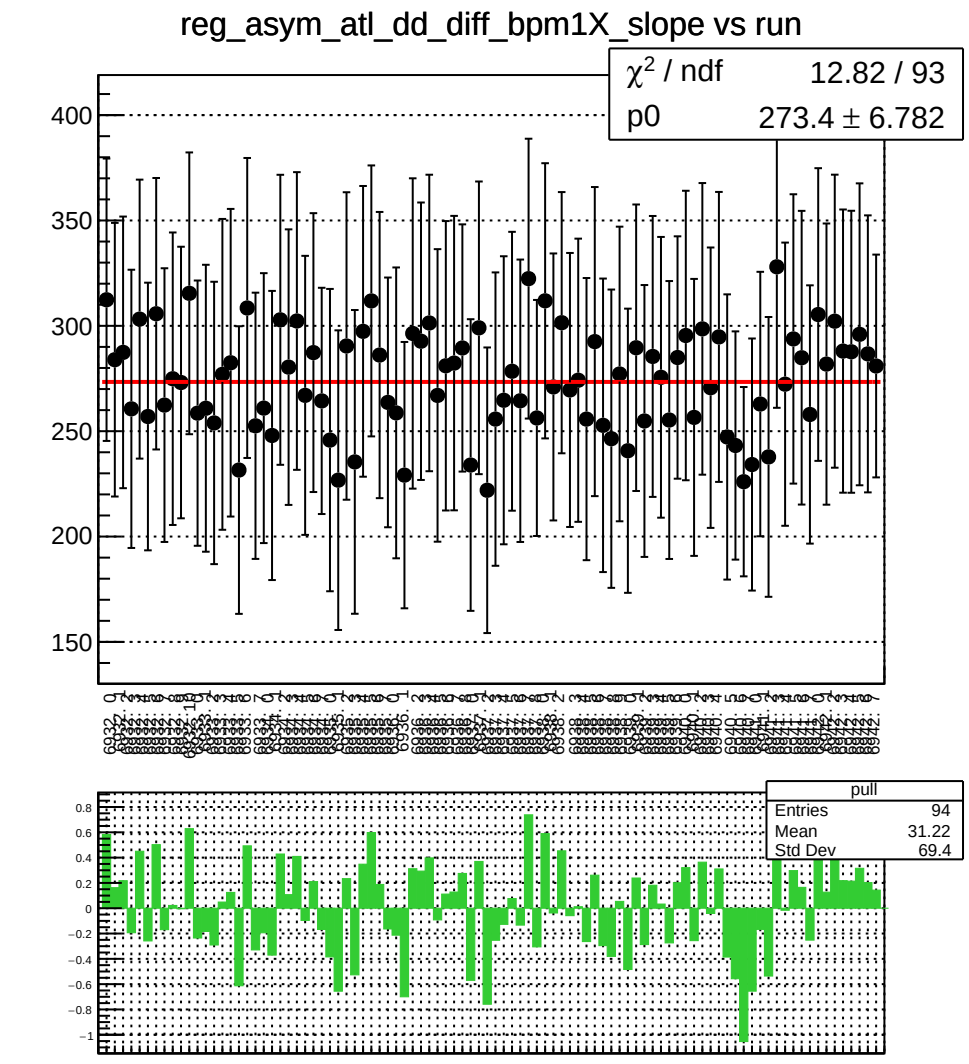

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.761 / 93
p0 6.546 ± 5.234
100
50
0
−50
−100
pull
Entries 94
Mean 179.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean 0.002154
Std Dev 0.2873
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

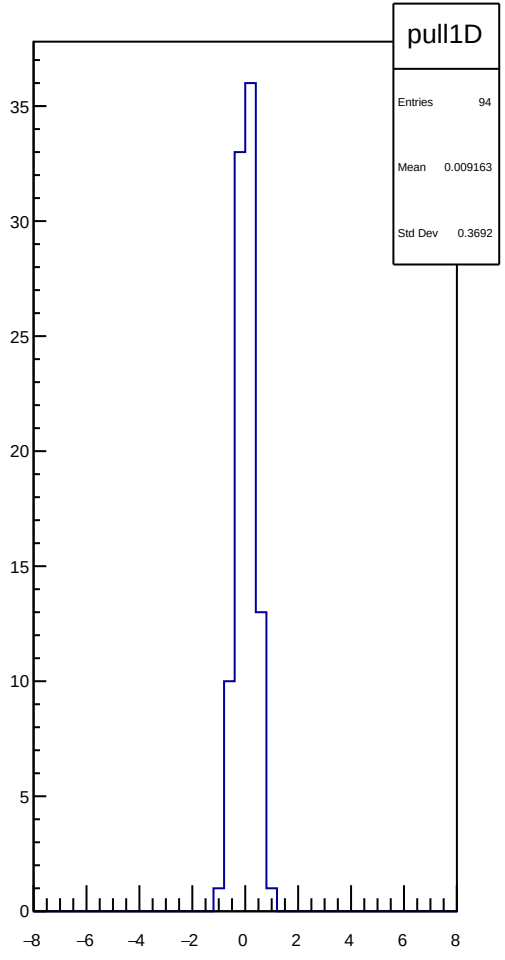

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.94 / 93
p0 265.2 ± 7.222
pull
Entries 94
Mean −20.47
Std Dev 0
pull1D
Entries 94
Mean 0.0134
Std Dev 0.3561

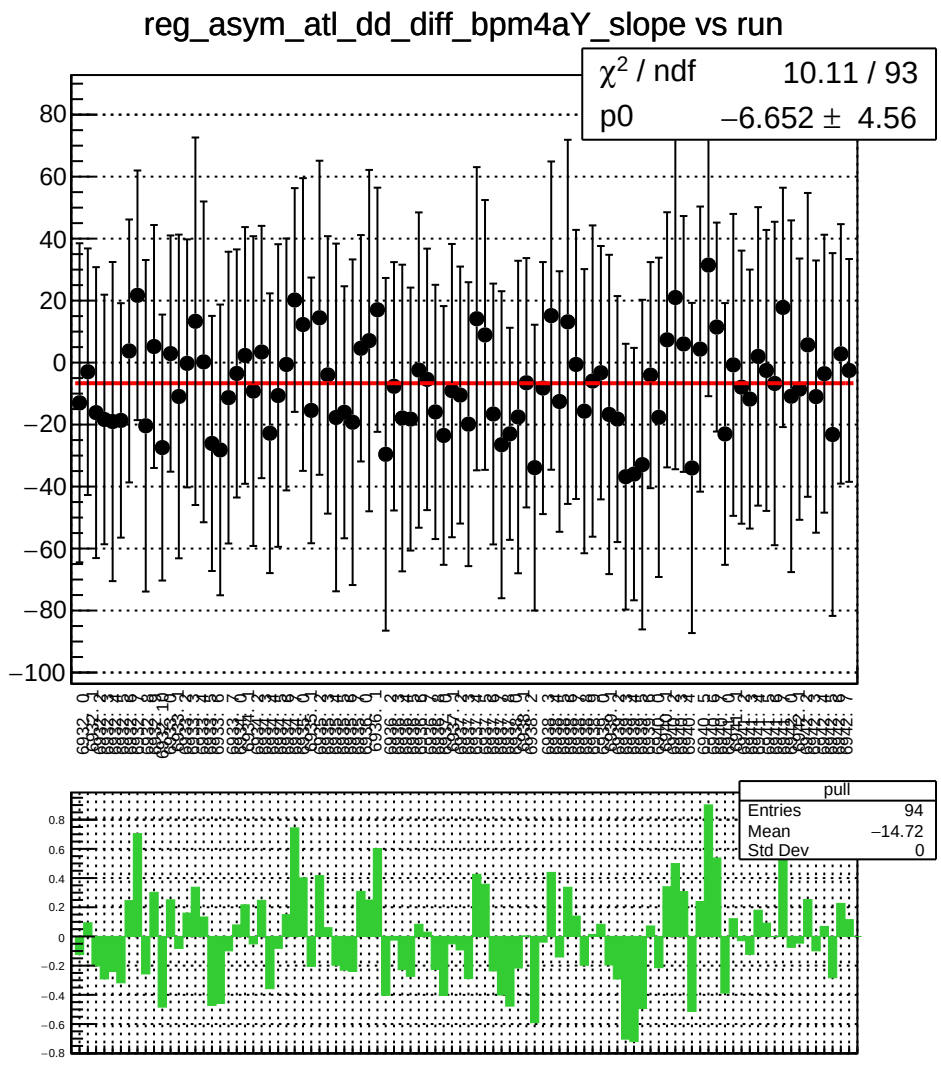

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.918 / 93
p0 65.53 ± 6.045
pull
Entries 94
Mean 59.12
Std Dev 0
pull1D
Entries 94
Mean −0.003264
Std Dev 0.308

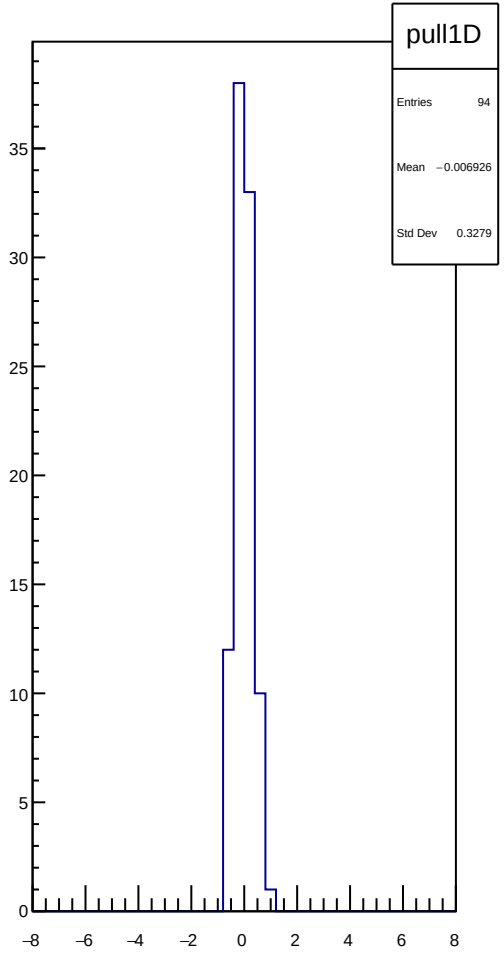

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 31.89 / 93
p0 −155.1 ± 0.2454
pull
Entries 94
Mean −208.9
Std Dev 0

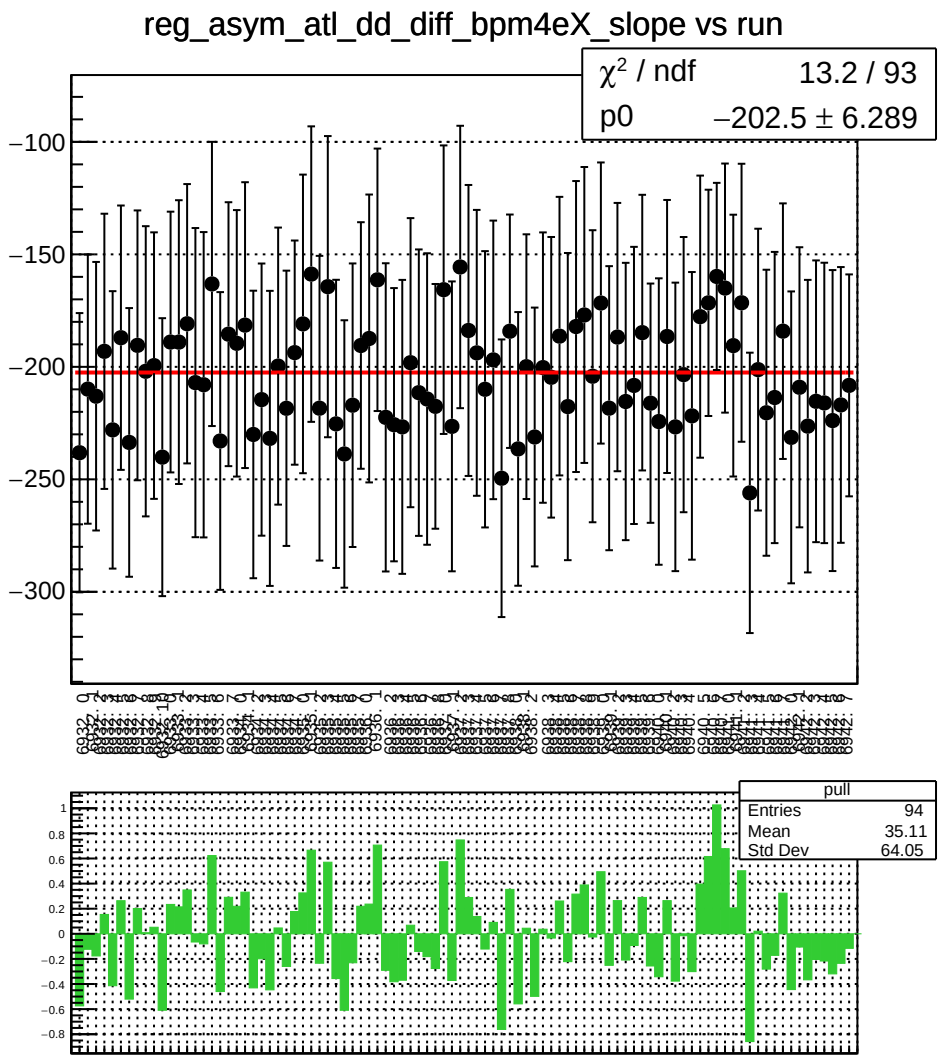

pull1D
Entries 94
Mean −0.01123
Std Dev 0.5824

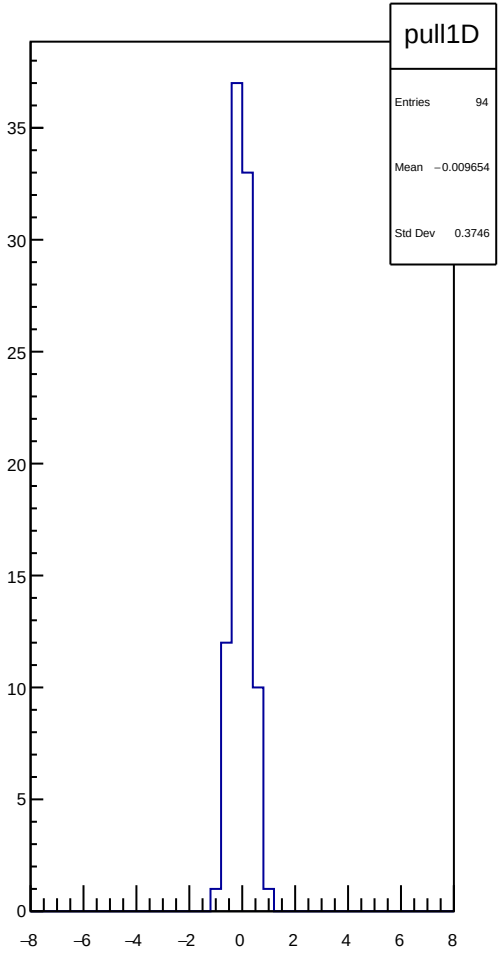

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 12.82 / 93
p0 273.4 ± 6.782
400
350
300
250
200
150
pull
Entries 94
Mean 31.22
Std Dev 69.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

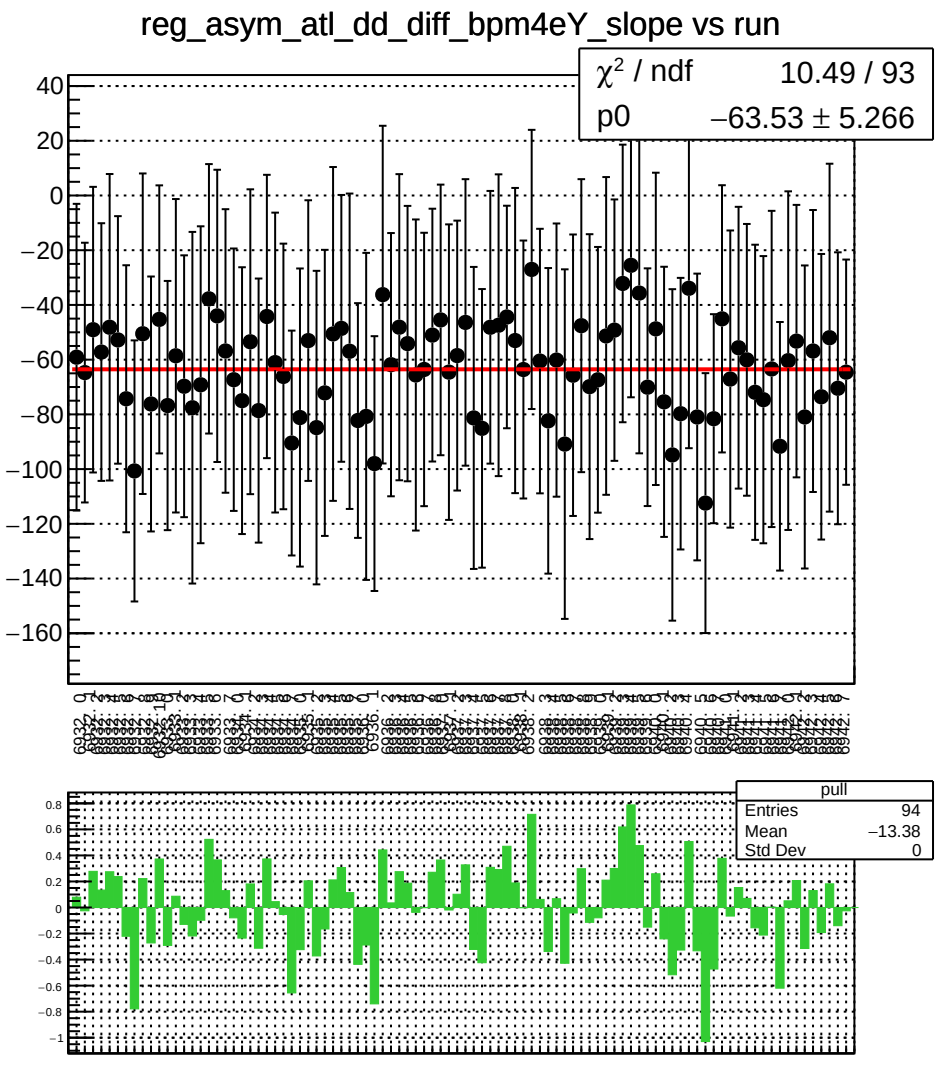

pull1D
Entries 94
Mean 0.009163
Std Dev 0.3692
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

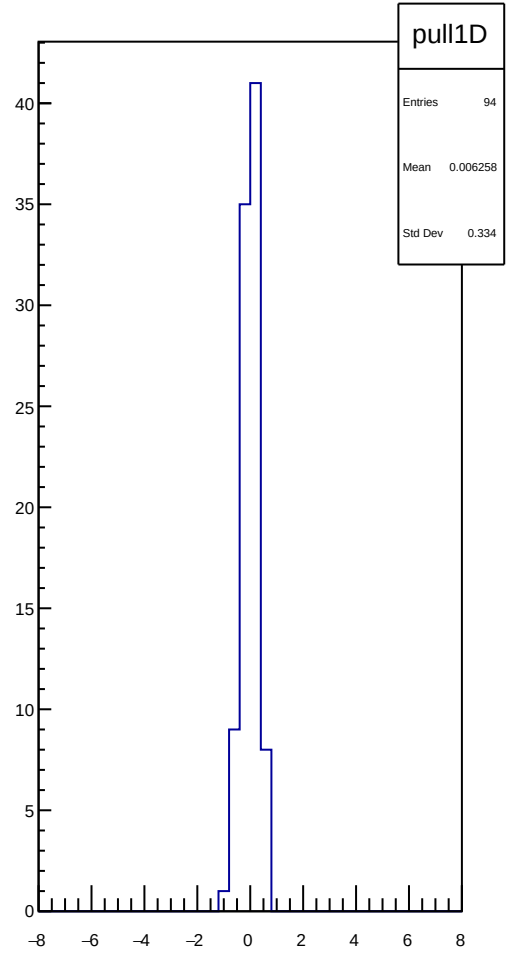

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.11 / 93
p0 −6.652 ± 4.56
pull
Entries 94
Mean −14.72
Std Dev 0

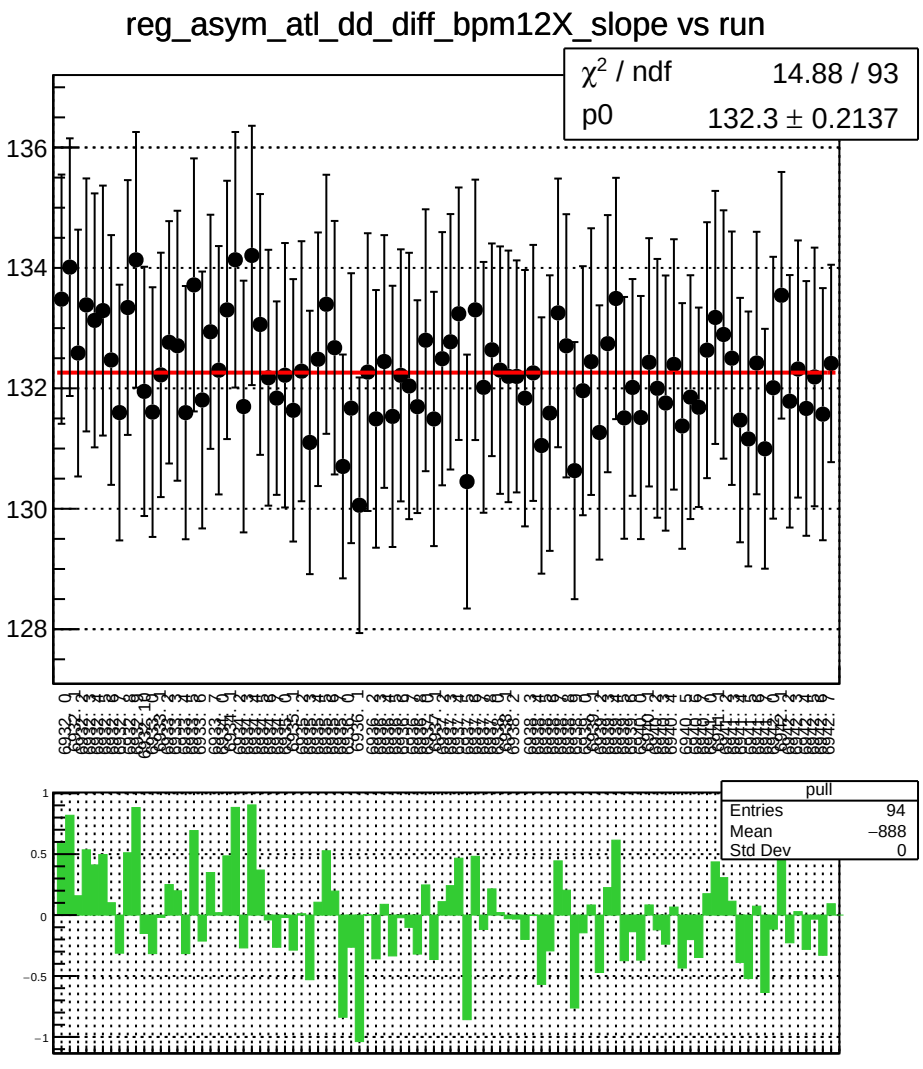

pull1D
Entries 94
Mean −0.006926
Std Dev 0.3279

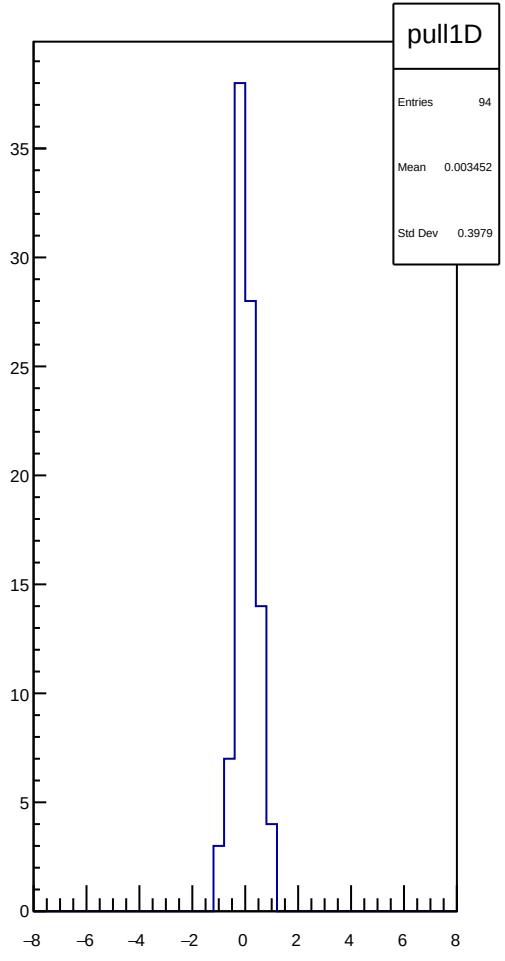

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.2 / 93
p0 −202.5 ± 6.289
−100
−150
−200
−250
−300
pull
Entries 94
Mean 35.11
Std Dev 64.05
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

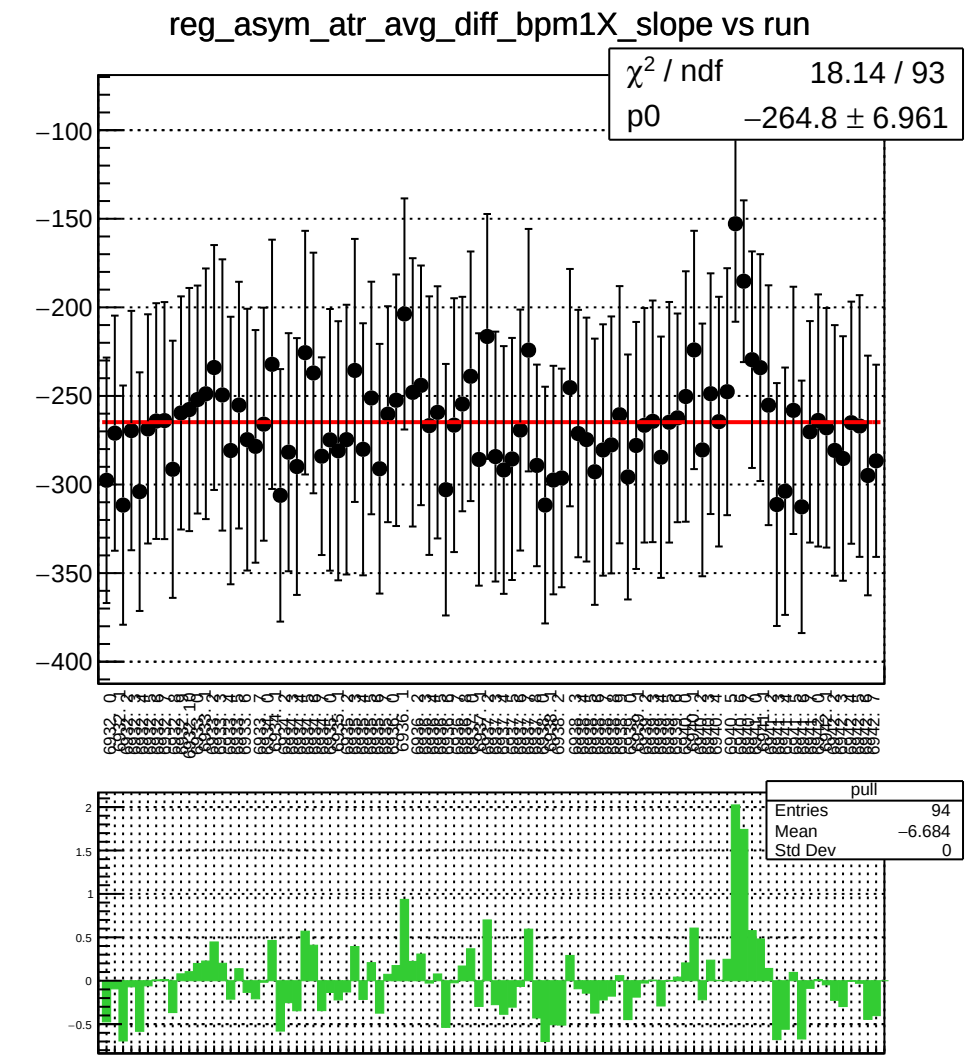

pull1D
Entries 94
Mean −0.009654
Std Dev 0.3746
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

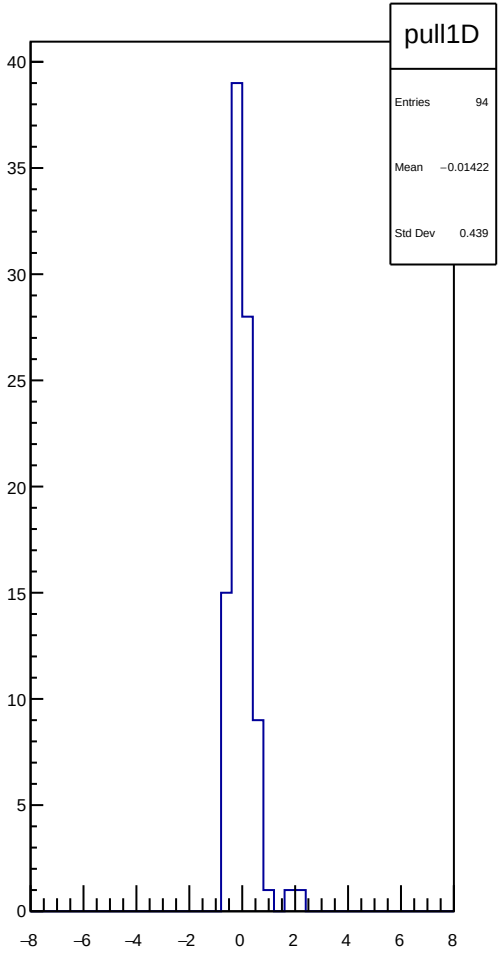

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.49 / 93
p0 −63.53 ± 5.266
pull
Entries 94
Mean −13.38
Std Dev 0

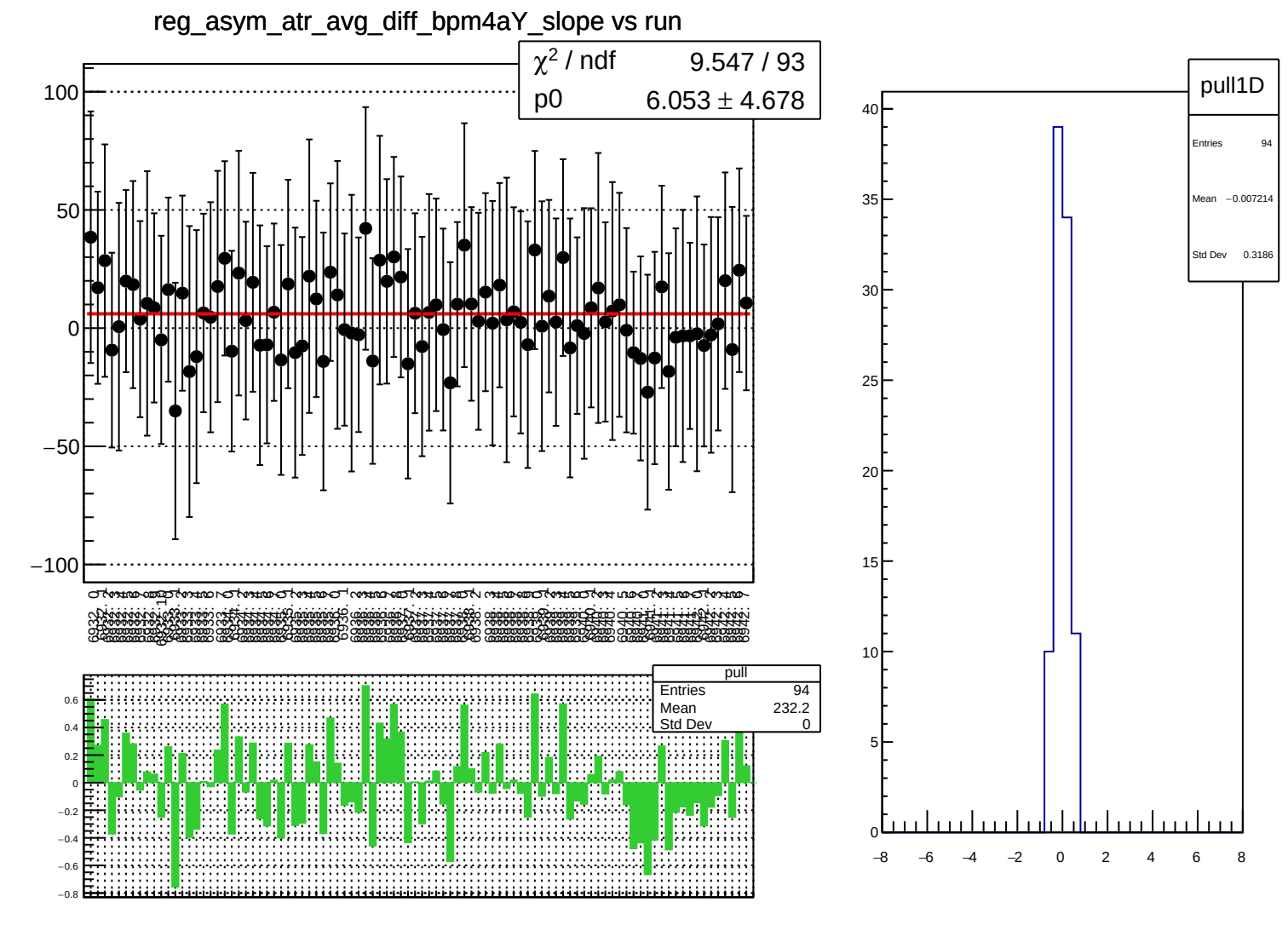

pull1D
Entries 94
Mean 0.006258
Std Dev 0.334

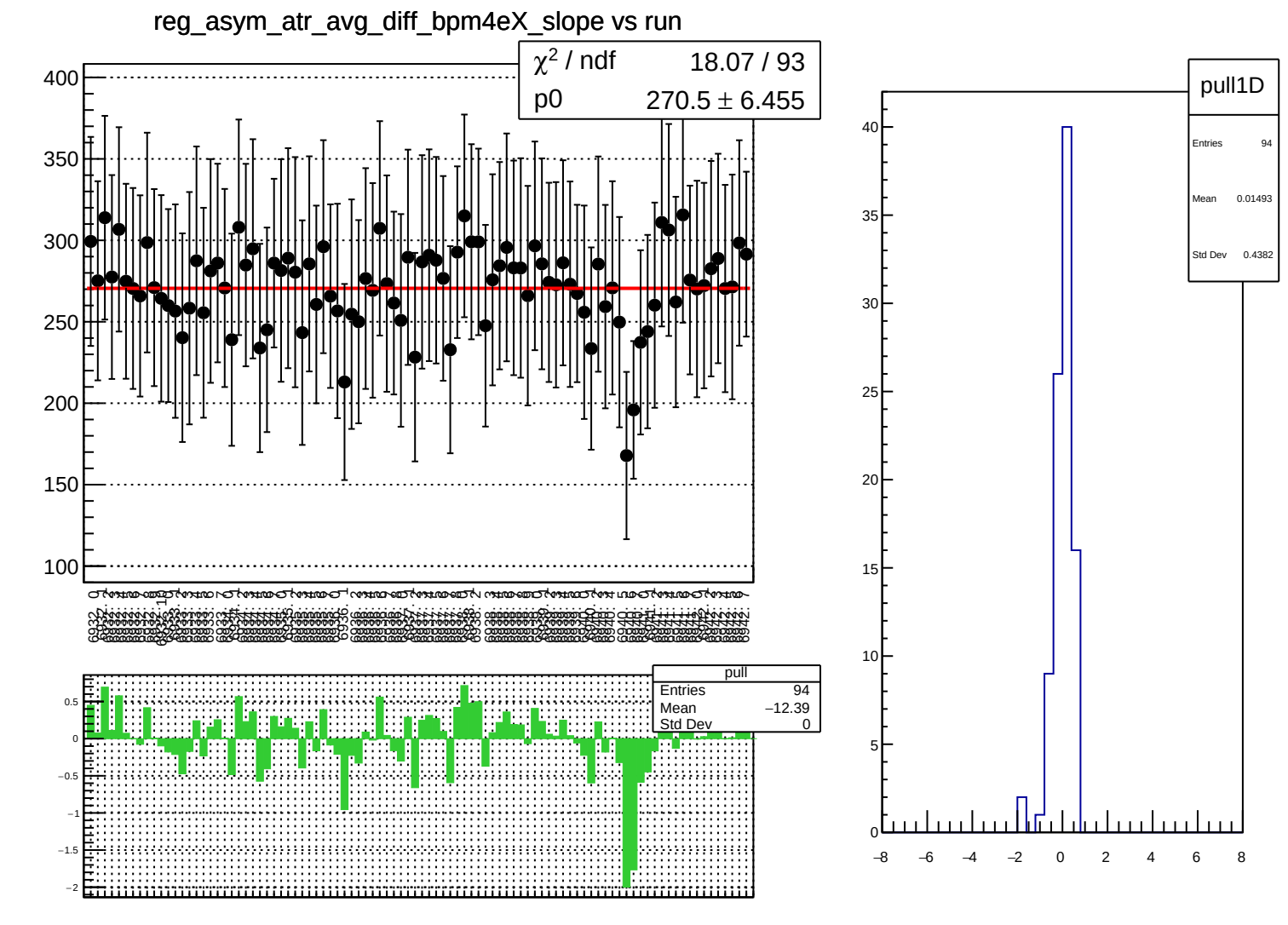

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 14.88 / 93
p0 132.3 ± 0.2137
136
134
132
130
128
pull
Entries 94
Mean −888
Std Dev 0
1
0.5
0
−0.5
−1

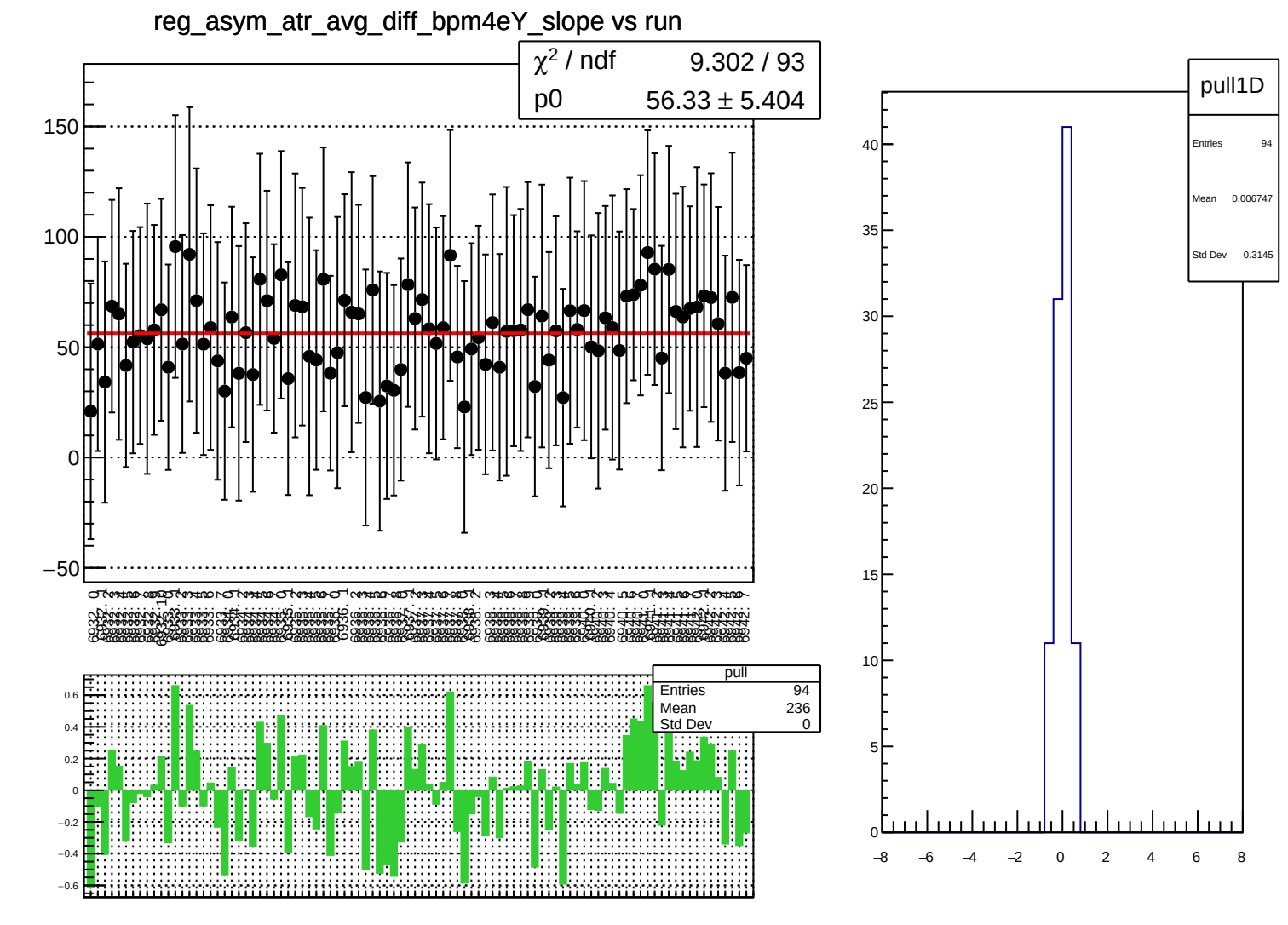

pull1D
Entries 94
Mean 0.003452
Std Dev 0.3979
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

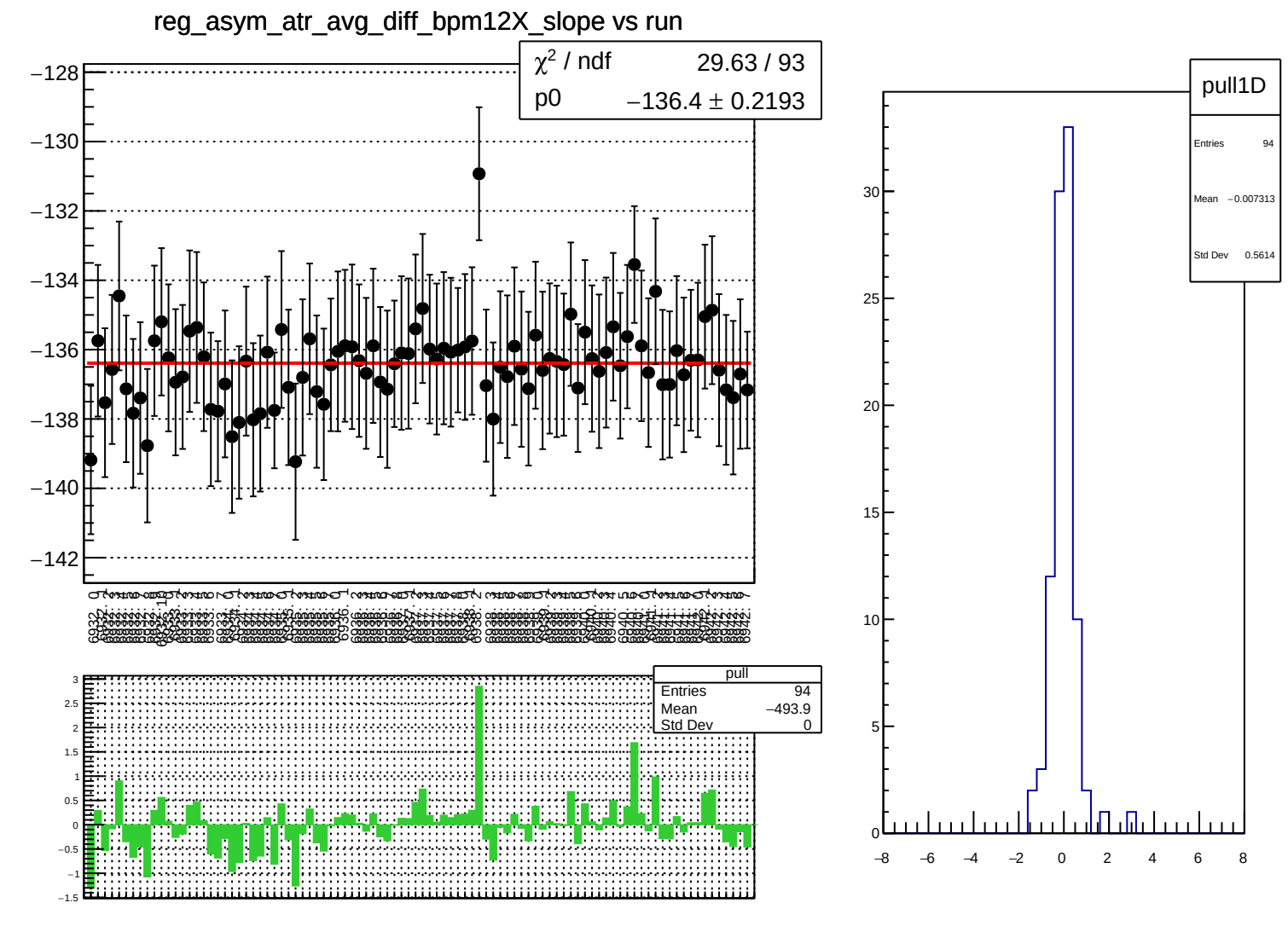

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 18.14 / 93
p0 −264.8 ± 6.961
−100
−150
−200
−250
−300
−350
−400
pull
Entries 94
Mean −6.684
Std Dev 0
2
1.5
1
0.5
0
−0.5

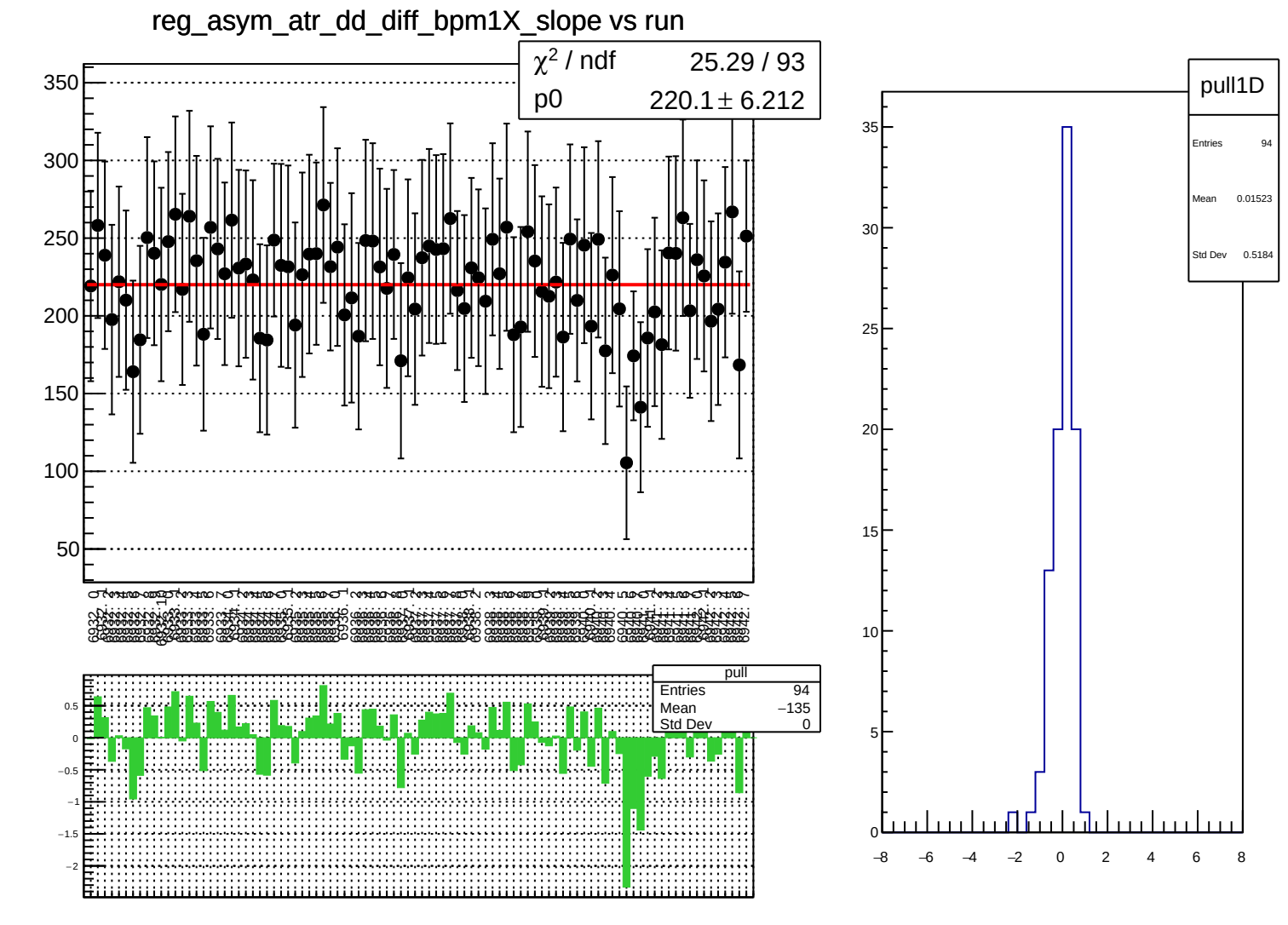

pull1D
Entries 94
Mean −0.01422
Std Dev 0.439
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

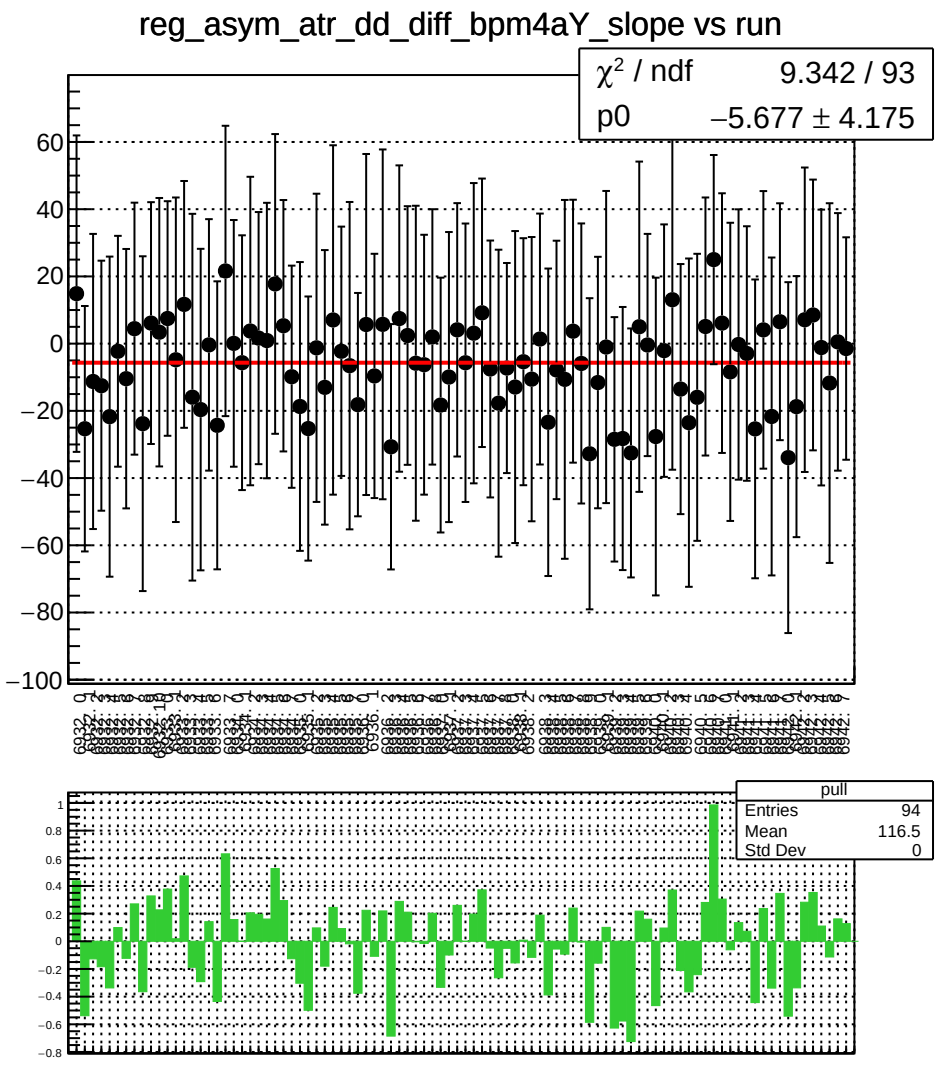

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.547 / 93
p0 6.053 ± 4.678
100
50
0
−50
−100
pull
Entries 94
Mean 232.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.007214
Std Dev 0.3186
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

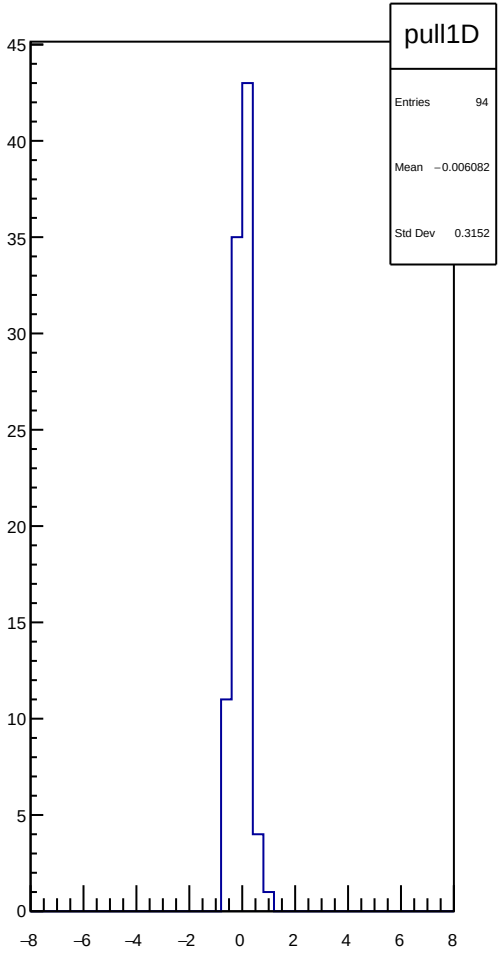

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.07 / 93
p0 270.5 ± 6.455
pull
Entries 94
Mean −12.39
Std Dev 0
pull1D
Entries 94
Mean 0.01493
Std Dev 0.4382

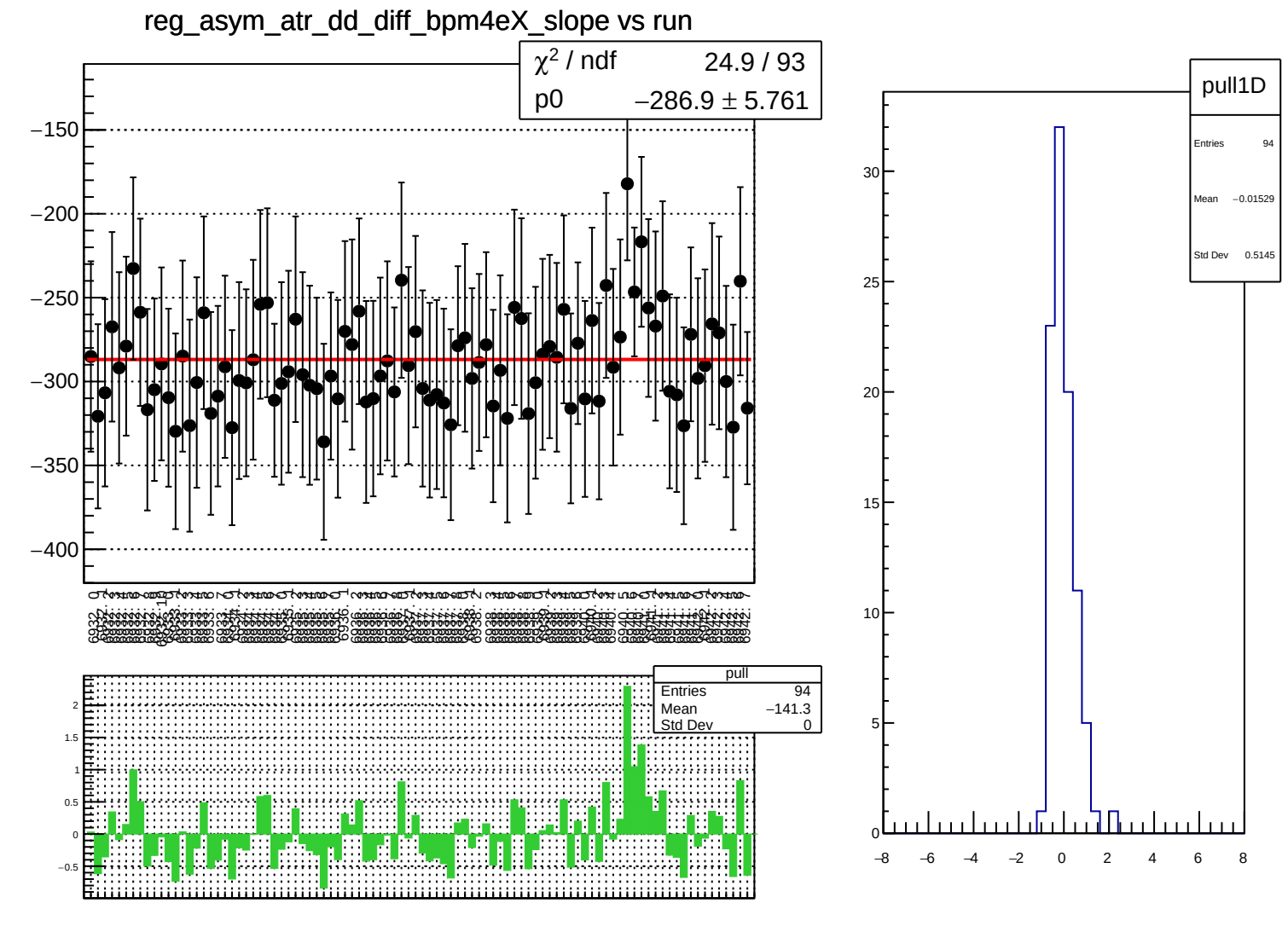

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.302 / 93
p0 56.33 ± 5.404
150
100
50
0
−50
pull
Entries 94
Mean 236
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.006747
Std Dev 0.3145
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

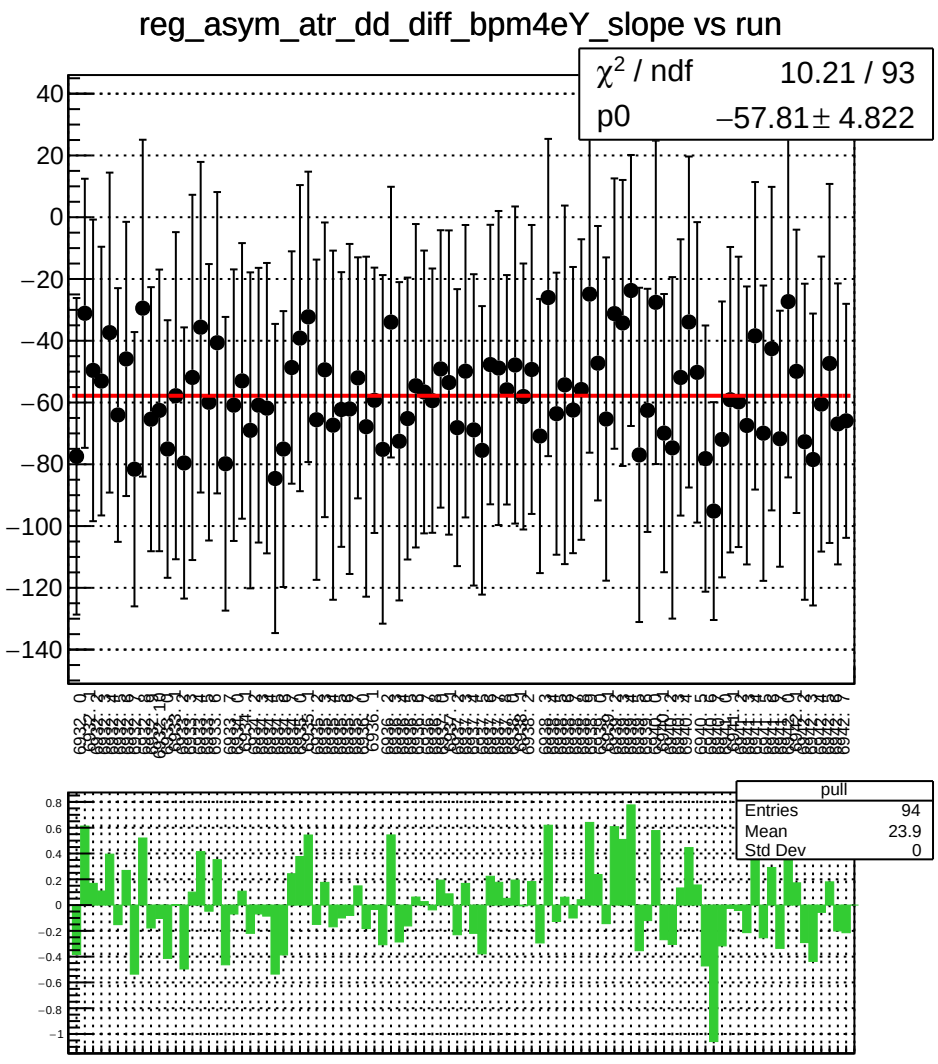

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 29.63 / 93
p0 −136.4 ± 0.2193
pull
Entries 94
Mean −493.9
Std Dev 0
pull1D
Entries 94
Mean −0.007313
Std Dev 0.5614

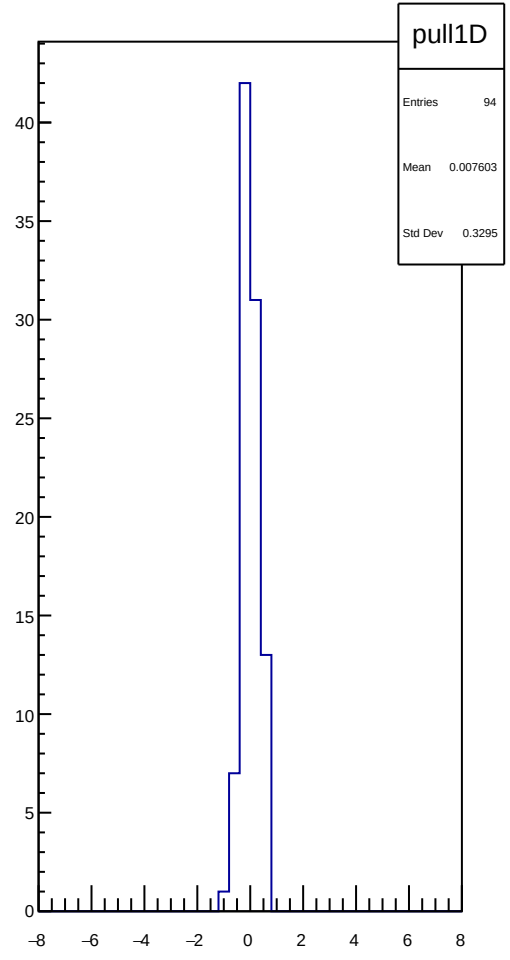

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 25.29 / 93
p0 220.1 ± 6.212
pull
Entries 94
Mean −135
Std Dev 0
pull1D
Entries 94
Mean 0.01523
Std Dev 0.5184

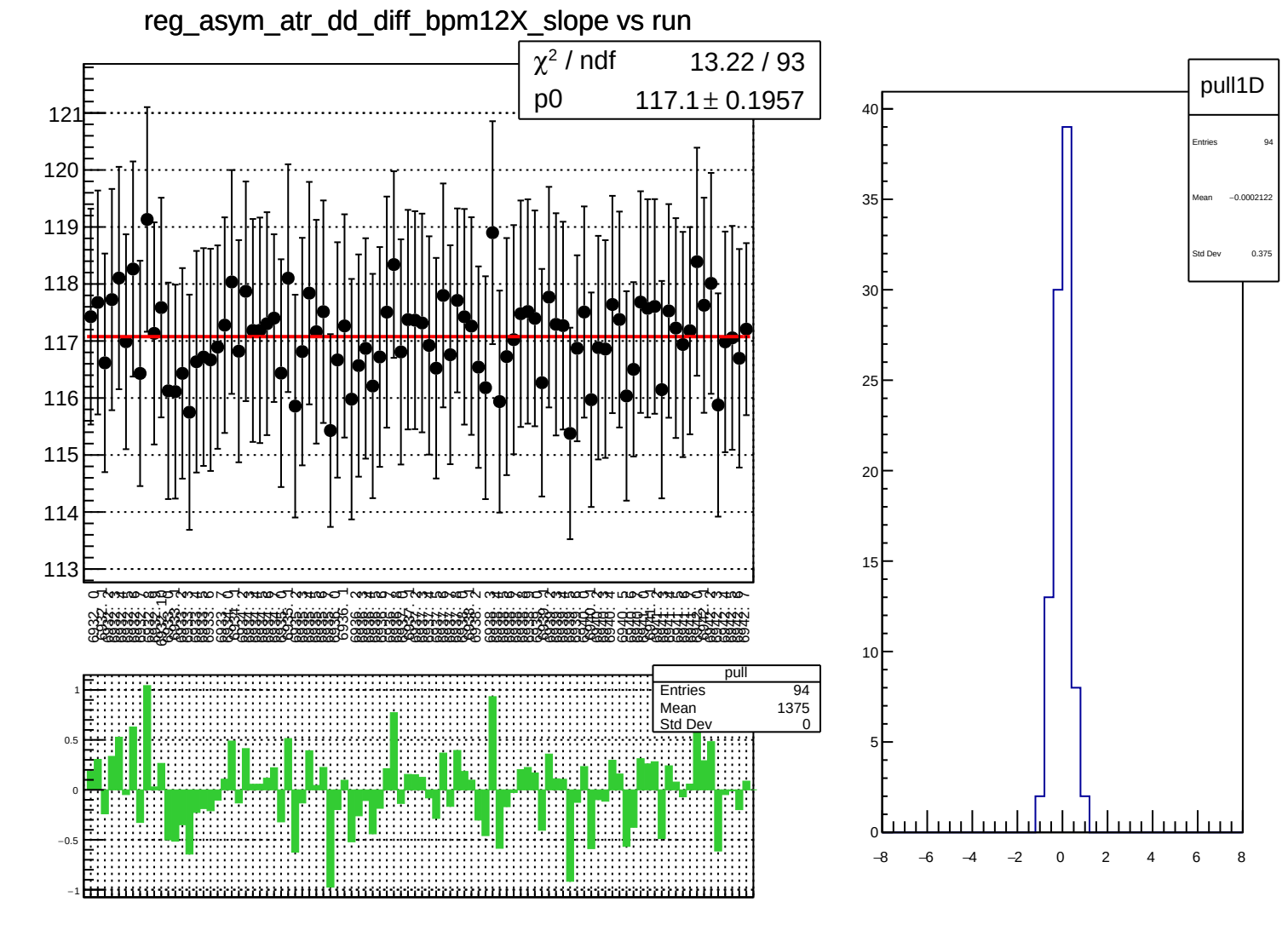

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.342 / 93
p0 −5.677 ± 4.175
pull
Entries 94
Mean 116.5
Std Dev 0

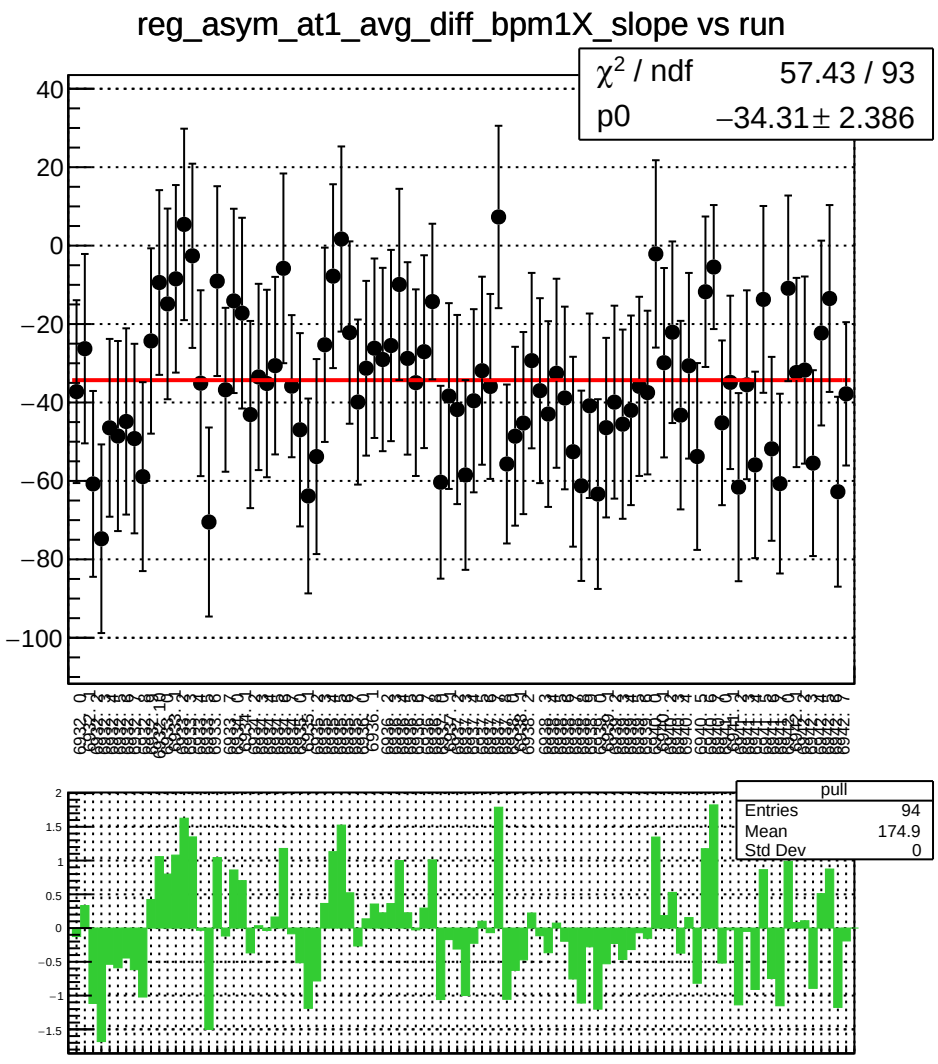

pull1D
Entries 94
Mean −0.006082
Std Dev 0.3152

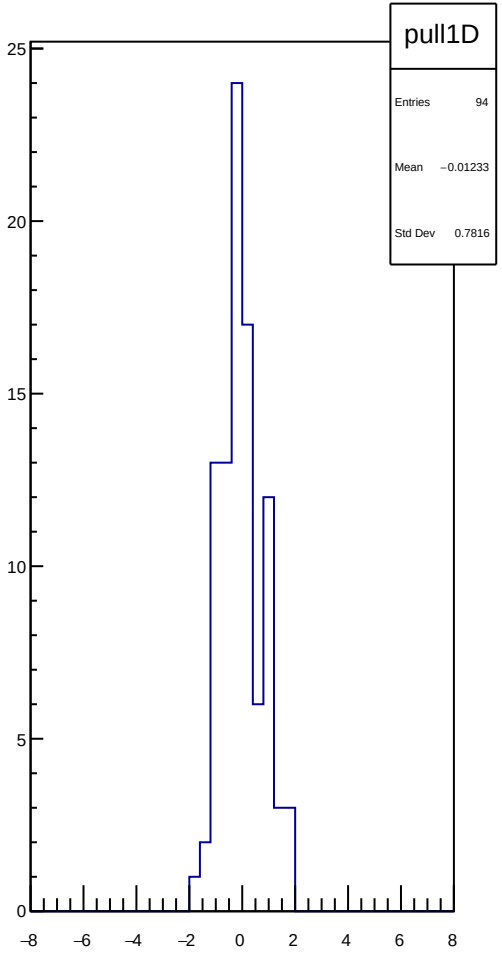

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.9 / 93
p0 −286.9 ± 5.761
−150
−200
−250
−300
−350
−400
pull
Entries 94
Mean −141.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01529
Std Dev 0.5145
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

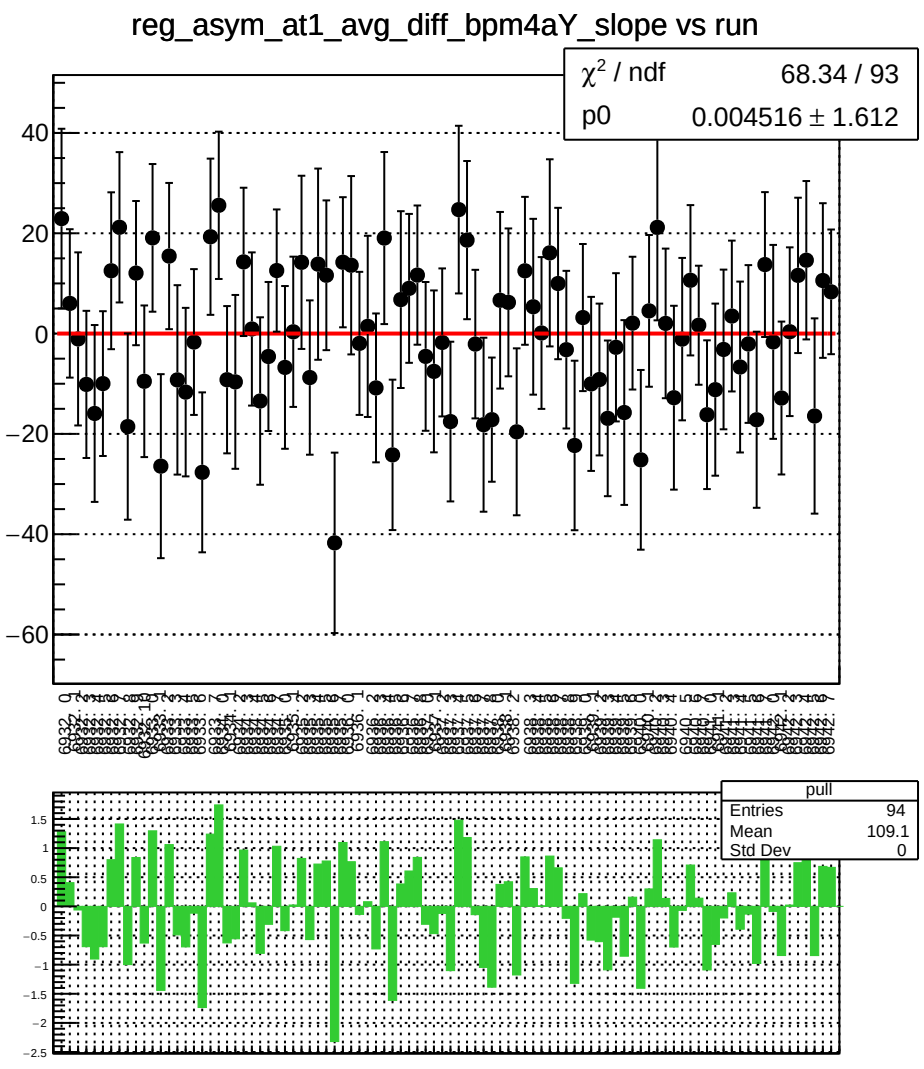

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.21 / 93
p0 −57.81 ± 4.822
pull
Entries 94
Mean 23.9
Std Dev 0

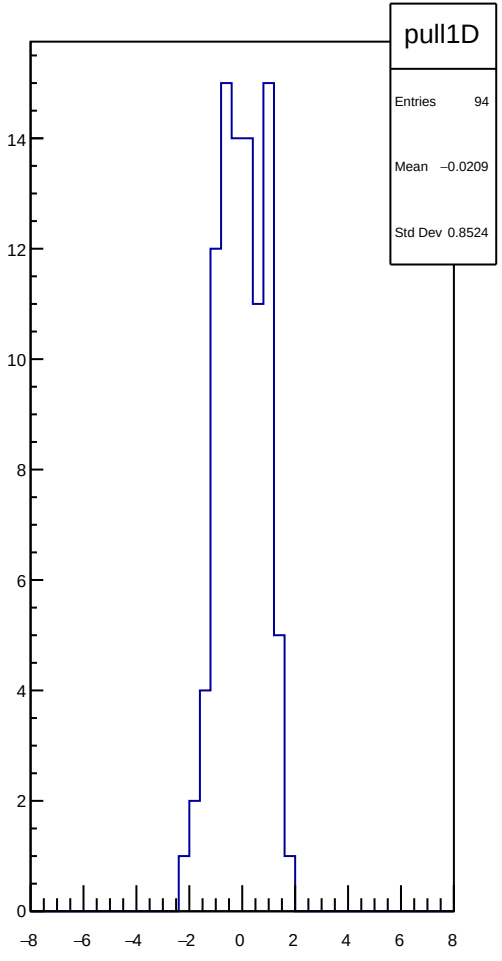

pull1D
Entries 94
Mean 0.007603
Std Dev 0.3295

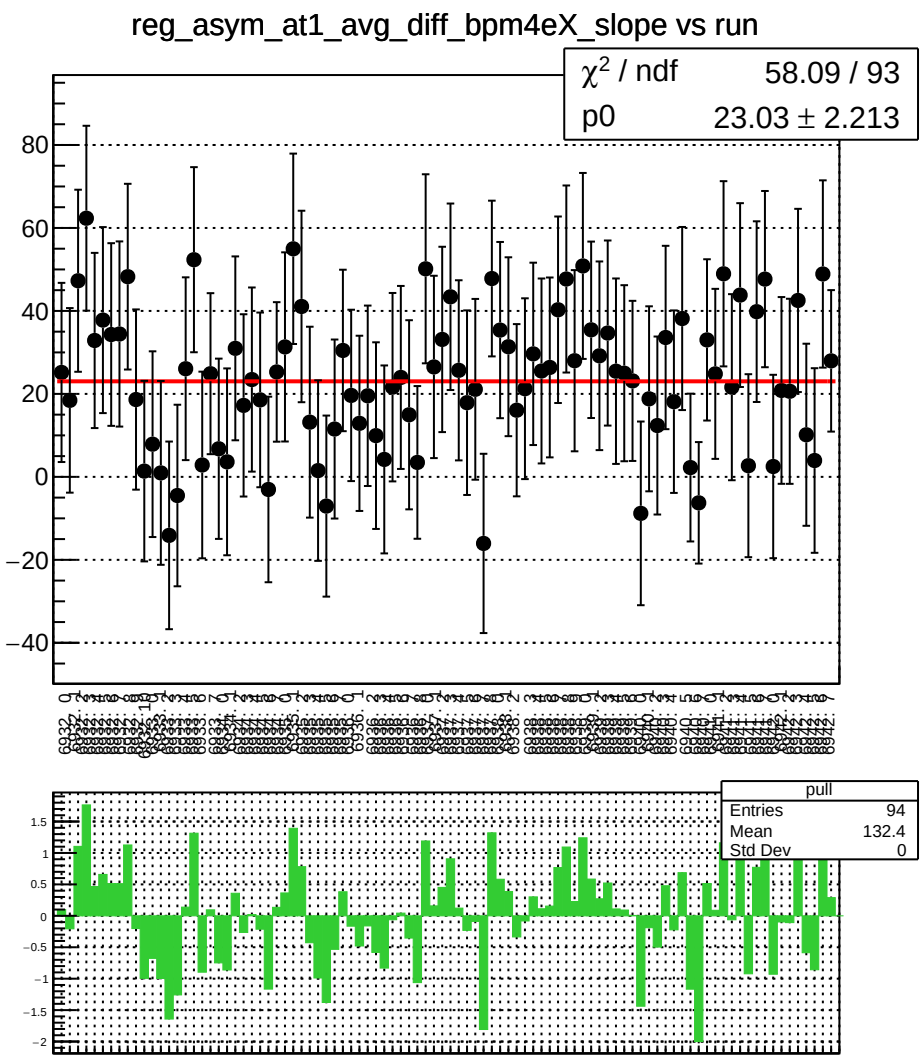

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ^2 / ndf 13.22 / 93
p0 117.1 ± 0.1957
pull
Entries 94
Mean 1375
Std Dev 0
pull1D
Entries 94
Mean −0.0002122
Std Dev 0.375

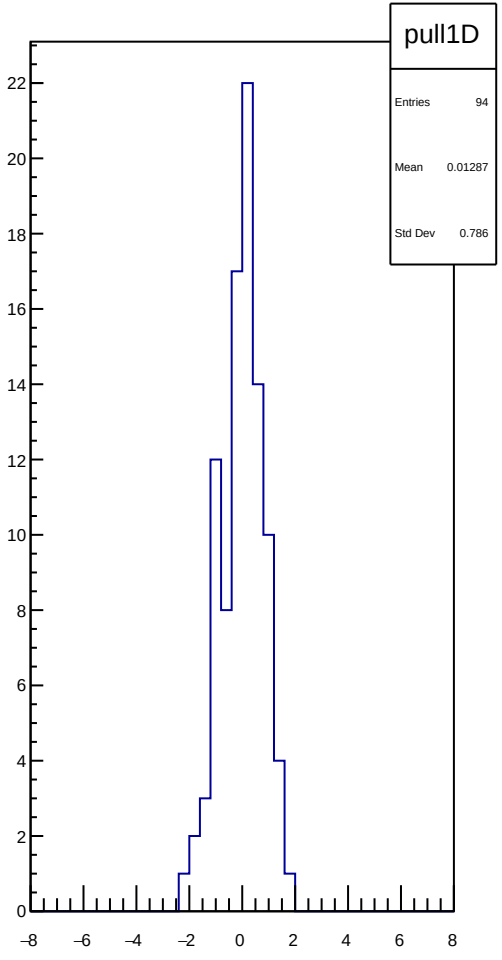

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 57.43 / 93
p0 −34.31 ± 2.386
pull
Entries 94
Mean 174.9
Std Dev 0

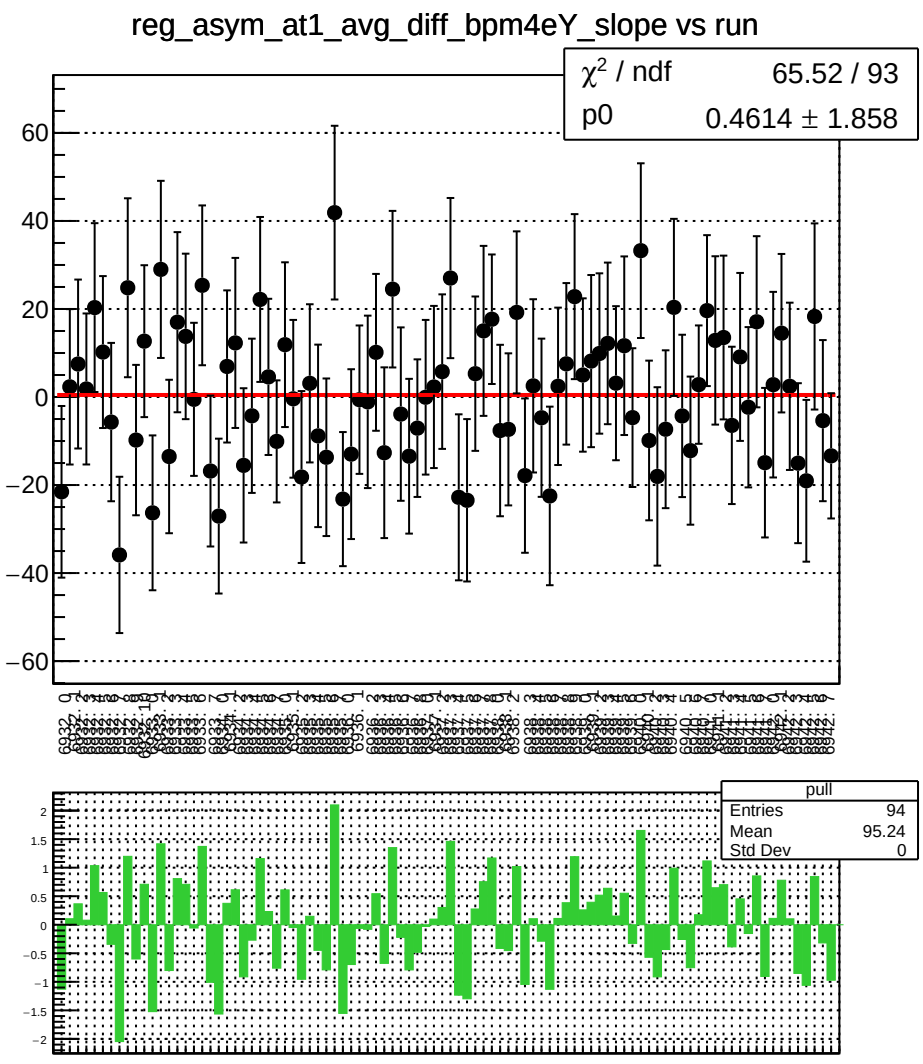

pull1D
Entries 94
Mean −0.01233
Std Dev 0.7816

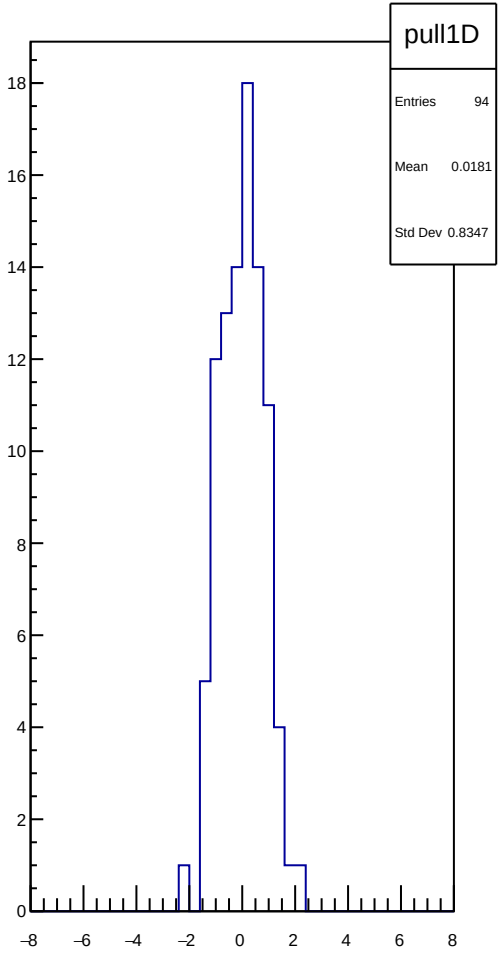

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.34 / 93
p0 0.004516 ± 1.612
pull
Entries 94
Mean 109.1
Std Dev 0

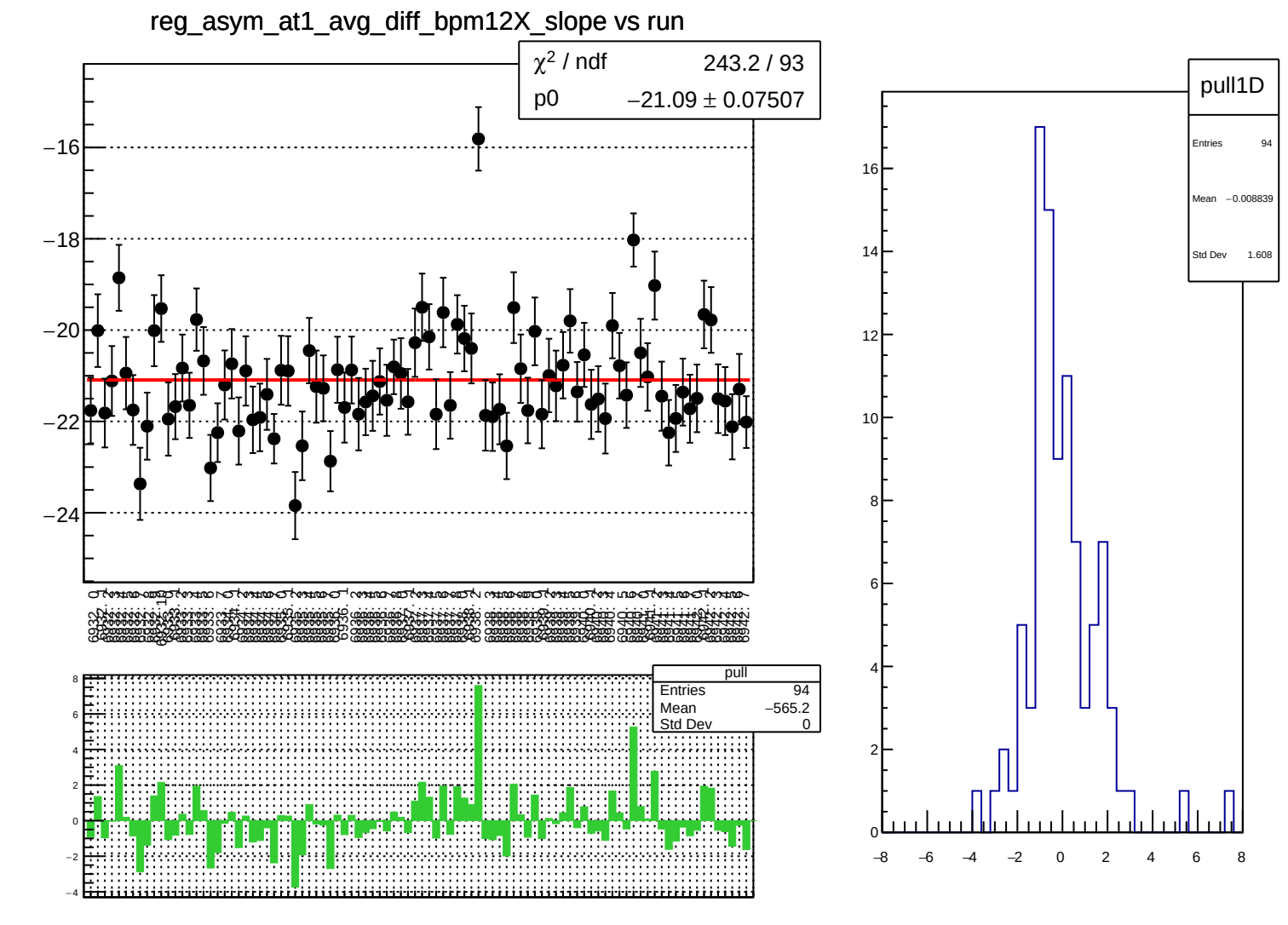

pull1D
Entries 94
Mean −0.0209
Std Dev 0.8524

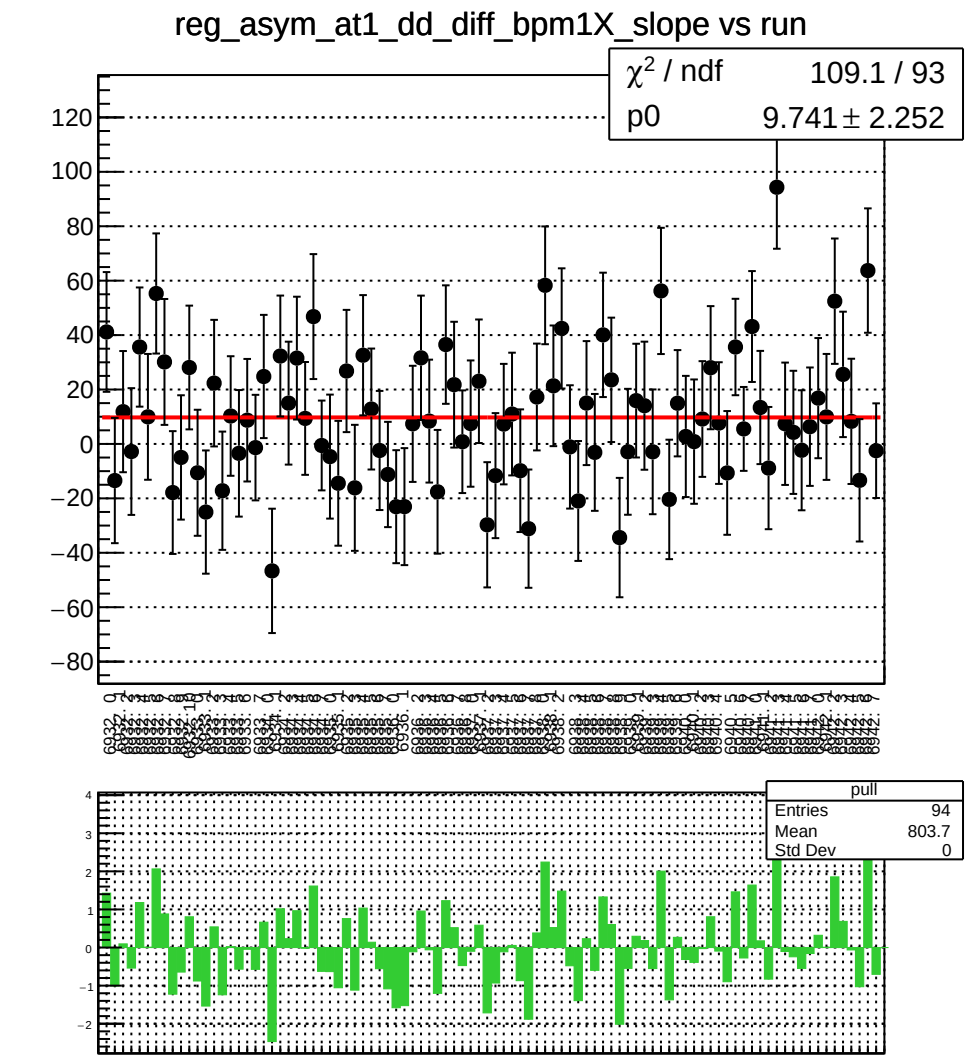

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.09 / 93
p0 23.03 ± 2.213
pull
Entries 94
Mean 132.4
Std Dev 0

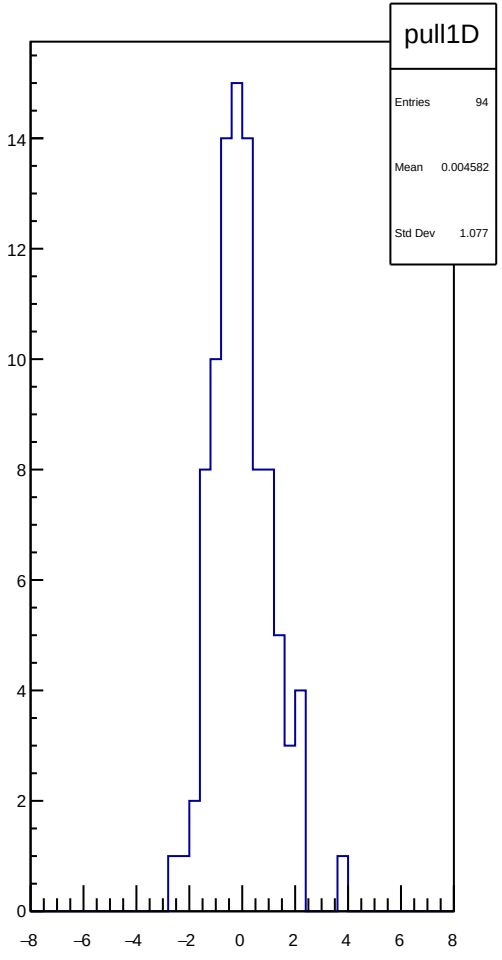

pull1D
Entries 94
Mean 0.01287
Std Dev 0.786

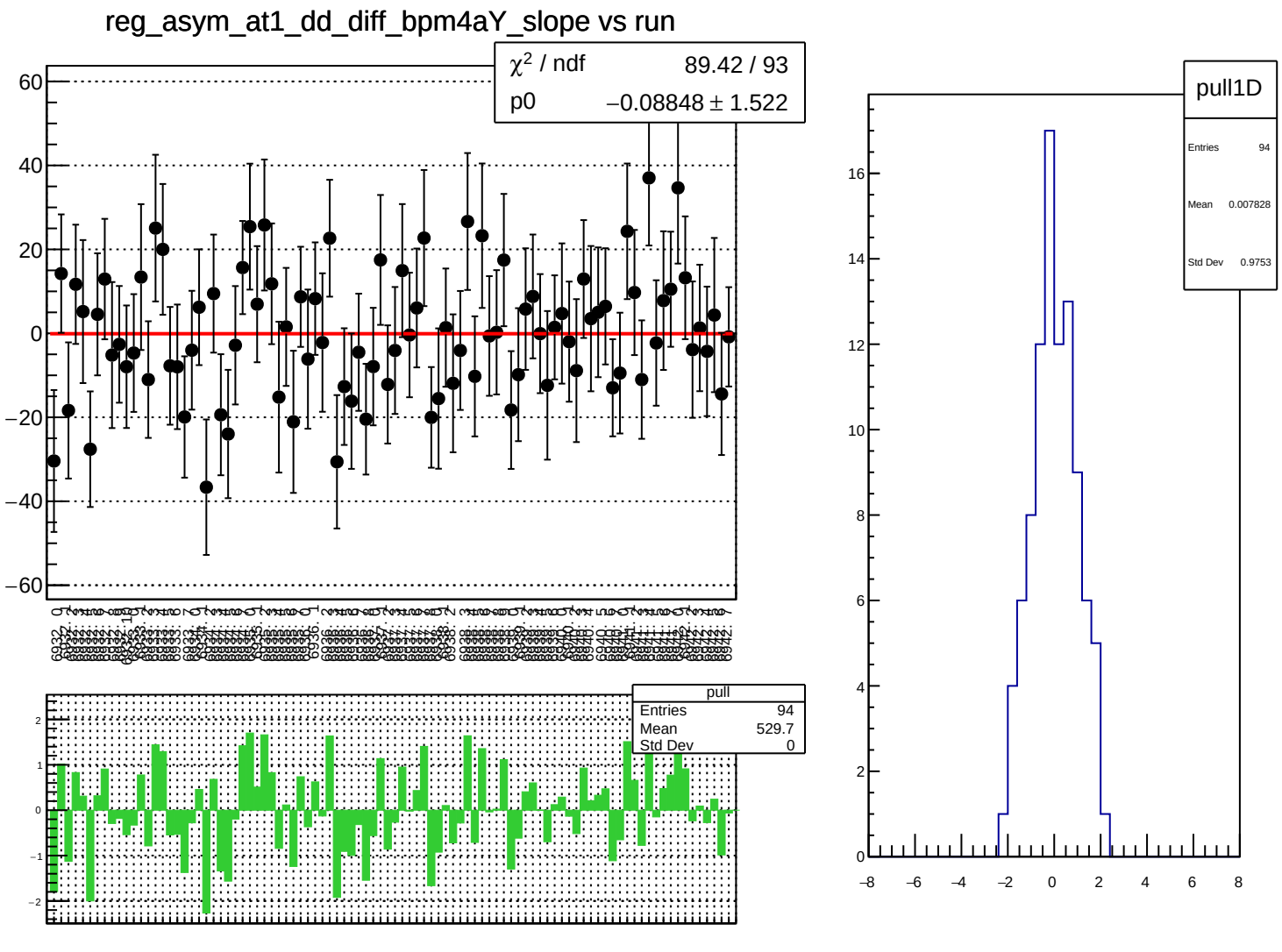

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.52 / 93
p0 0.4614 ± 1.858
pull
Entries 94
Mean 95.24
Std Dev 0

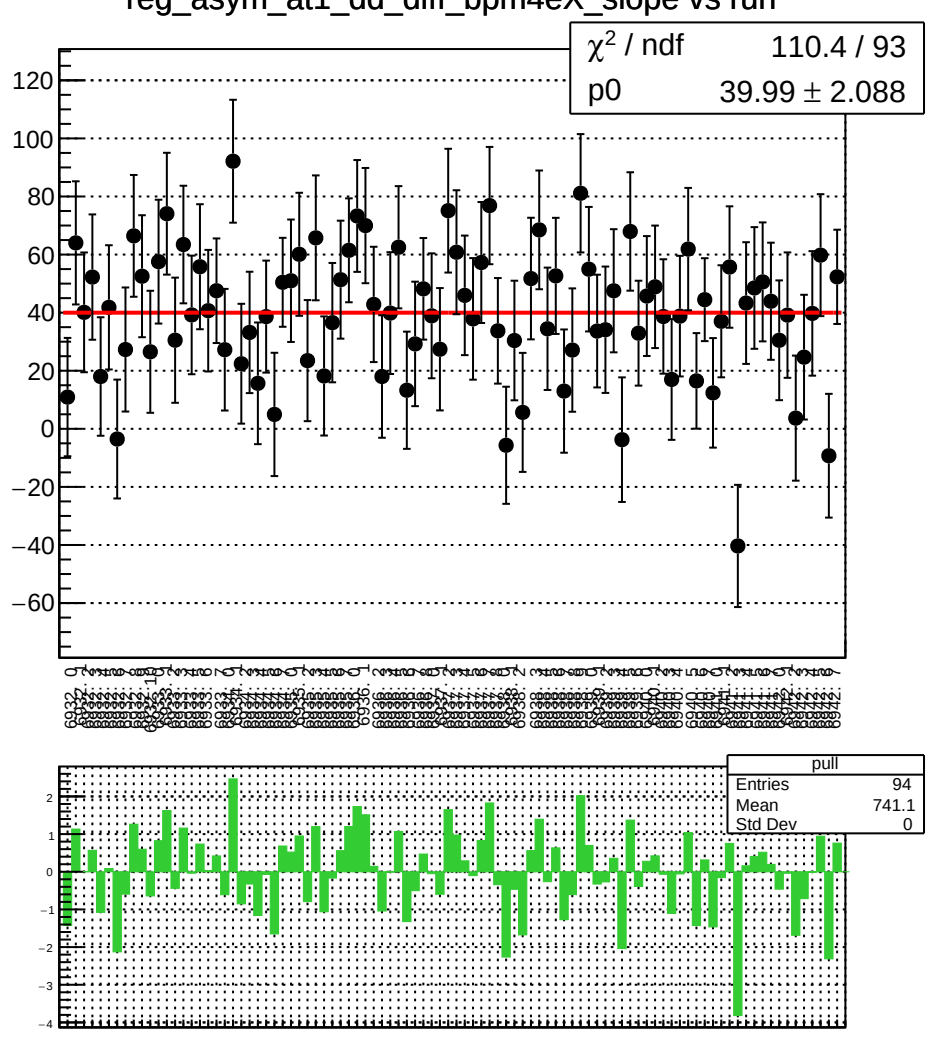

pull1D
Entries 94
Mean 0.0181
Std Dev 0.8347

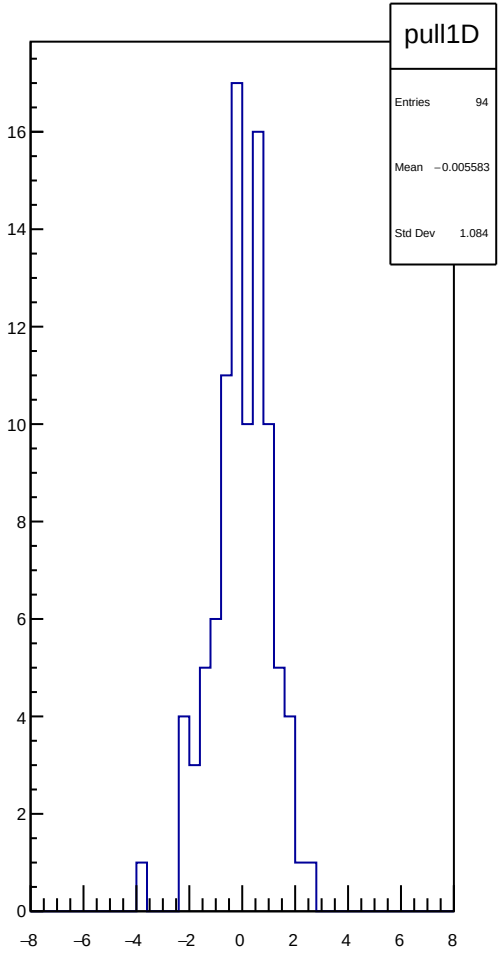

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 243.2 / 93
p0 −21.09 ± 0.07507
−16
−18
−20
−22
−24
pull
Entries 94
Mean −565.2
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.008839
Std Dev 1.608
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

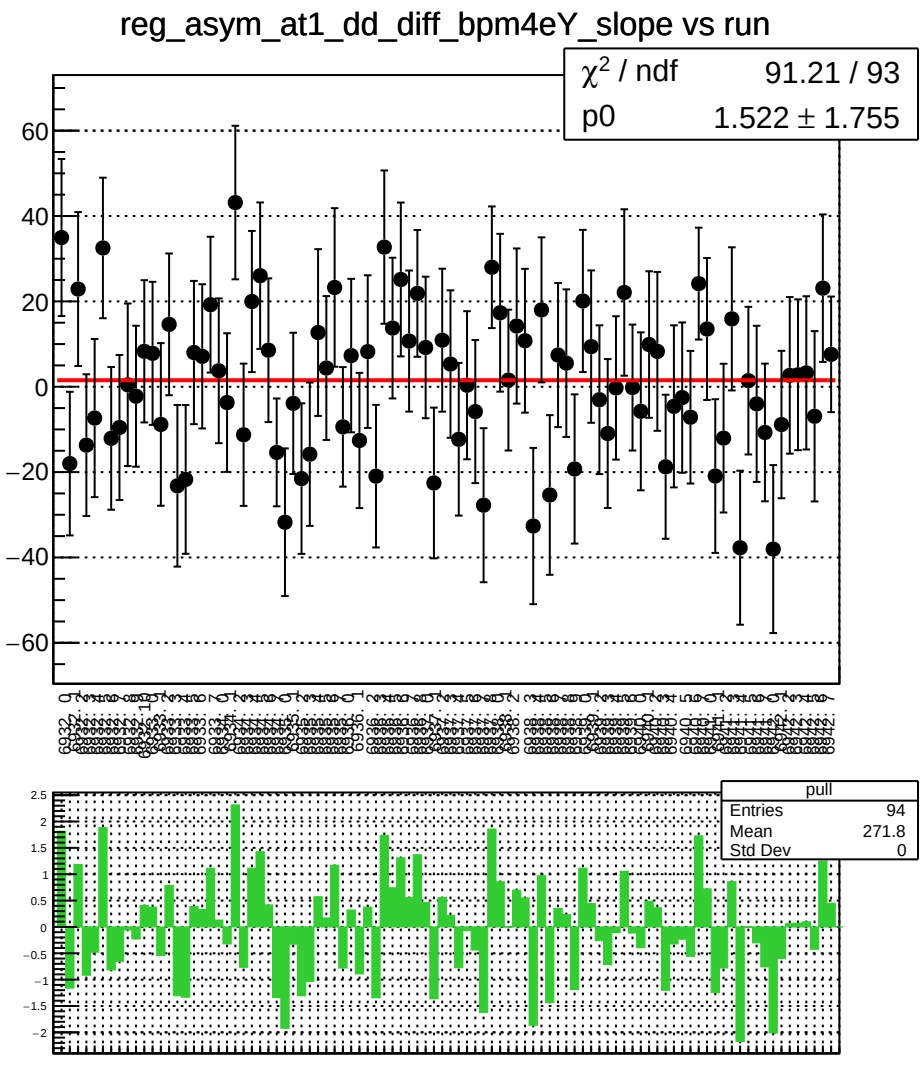

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 109.1 / 93
p0 9.741 ± 2.252
pull
Entries 94
Mean 803.7
Std Dev 0

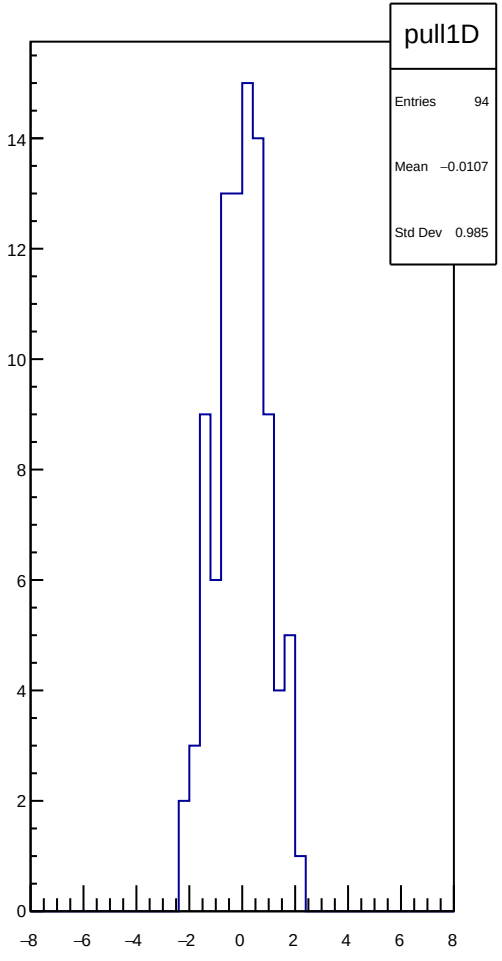

pull1D
Entries 94
Mean 0.004582
Std Dev 1.077

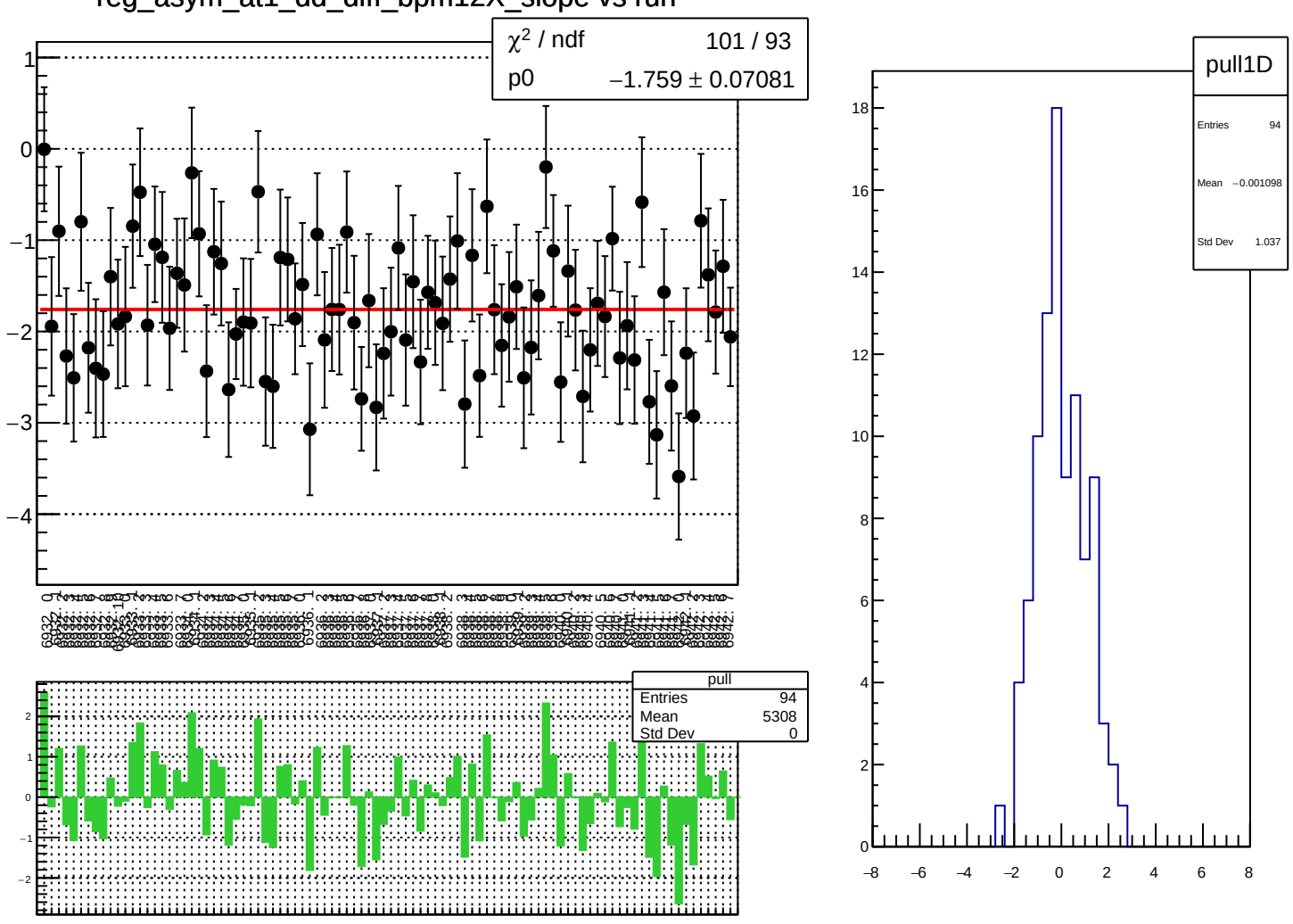

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.42 / 93
p0 −0.08848 ± 1.522
pull
Entries 94
Mean 529.7
Std Dev 0
pull1D
Entries 94
Mean 0.007828
Std Dev 0.9753

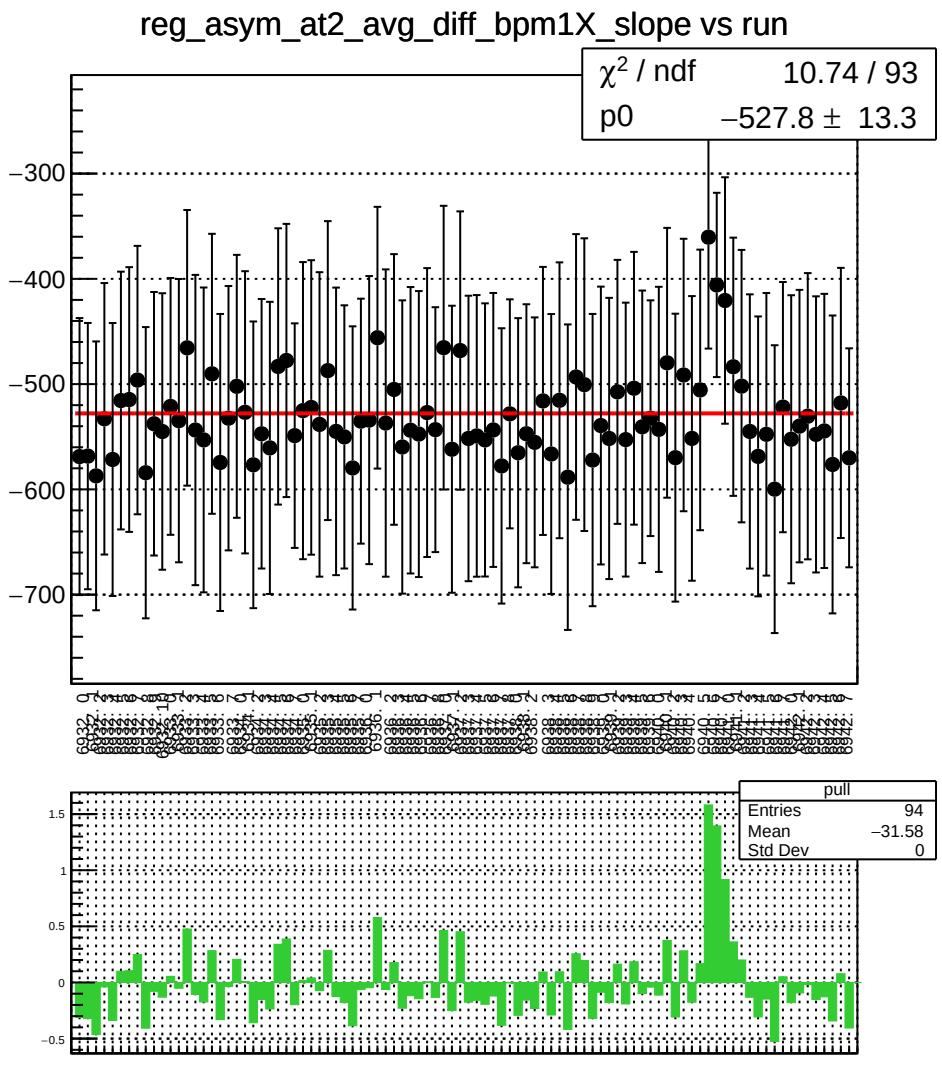

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 110.4 / 93
p0 39.99 ± 2.088
pull
Entries 94
Mean 741.1
Std Dev 0

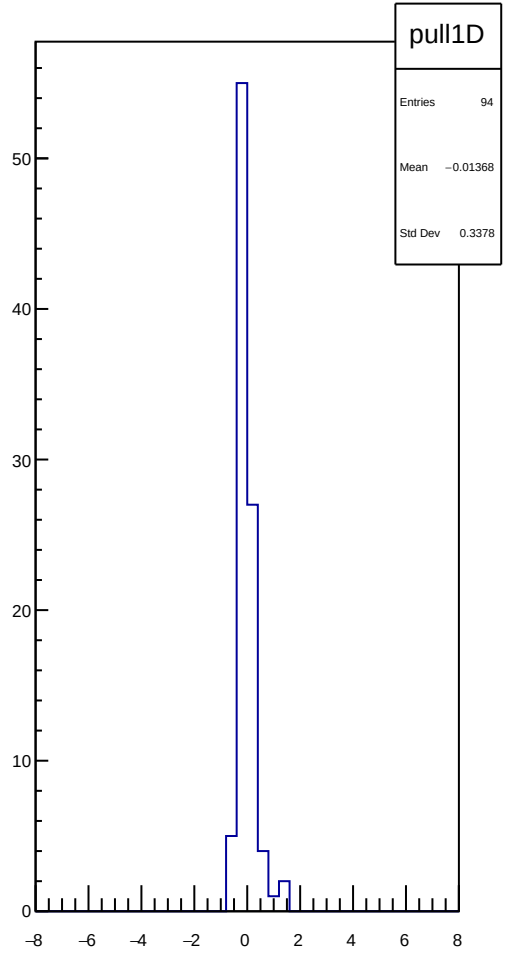

pull1D
Entries 94
Mean −0.005583
Std Dev 1.084

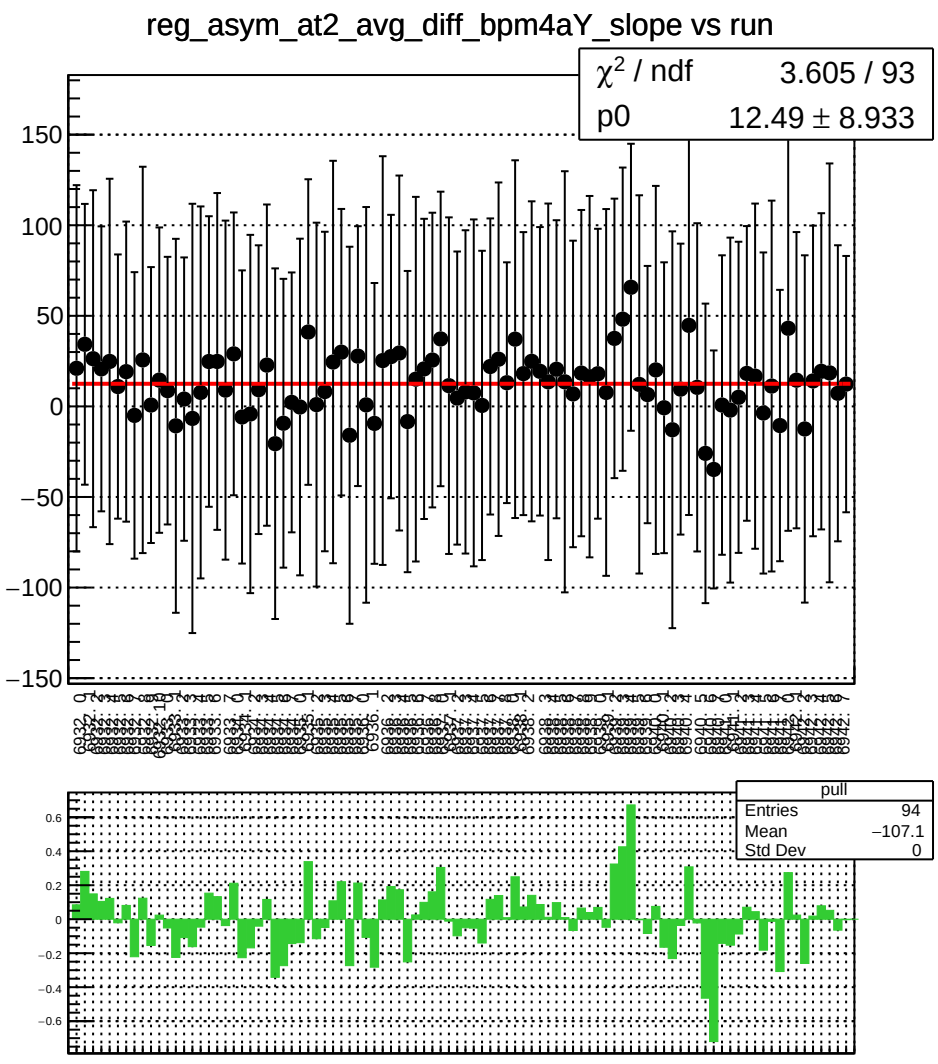

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.21 / 93
p0 1.522 ± 1.755
pull
Entries 94
Mean 271.8
Std Dev 0

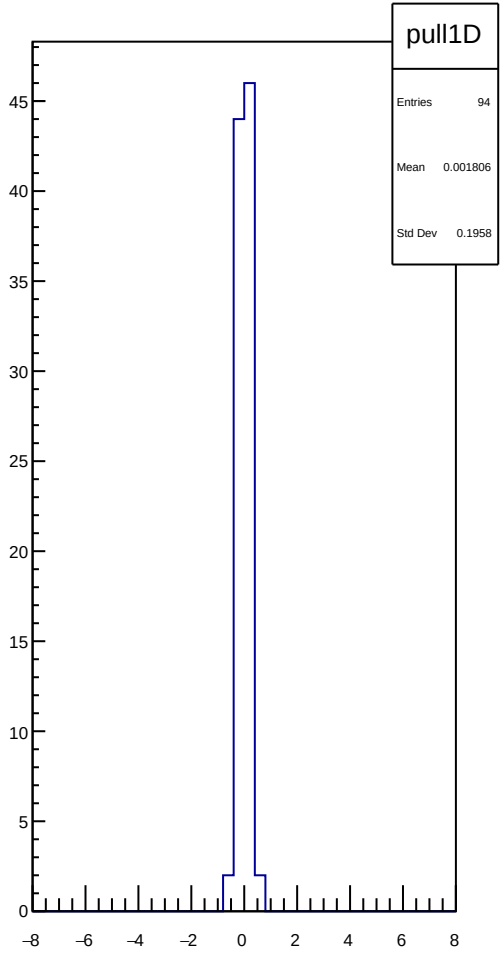

pull1D
Entries 94
Mean −0.0107
Std Dev 0.985

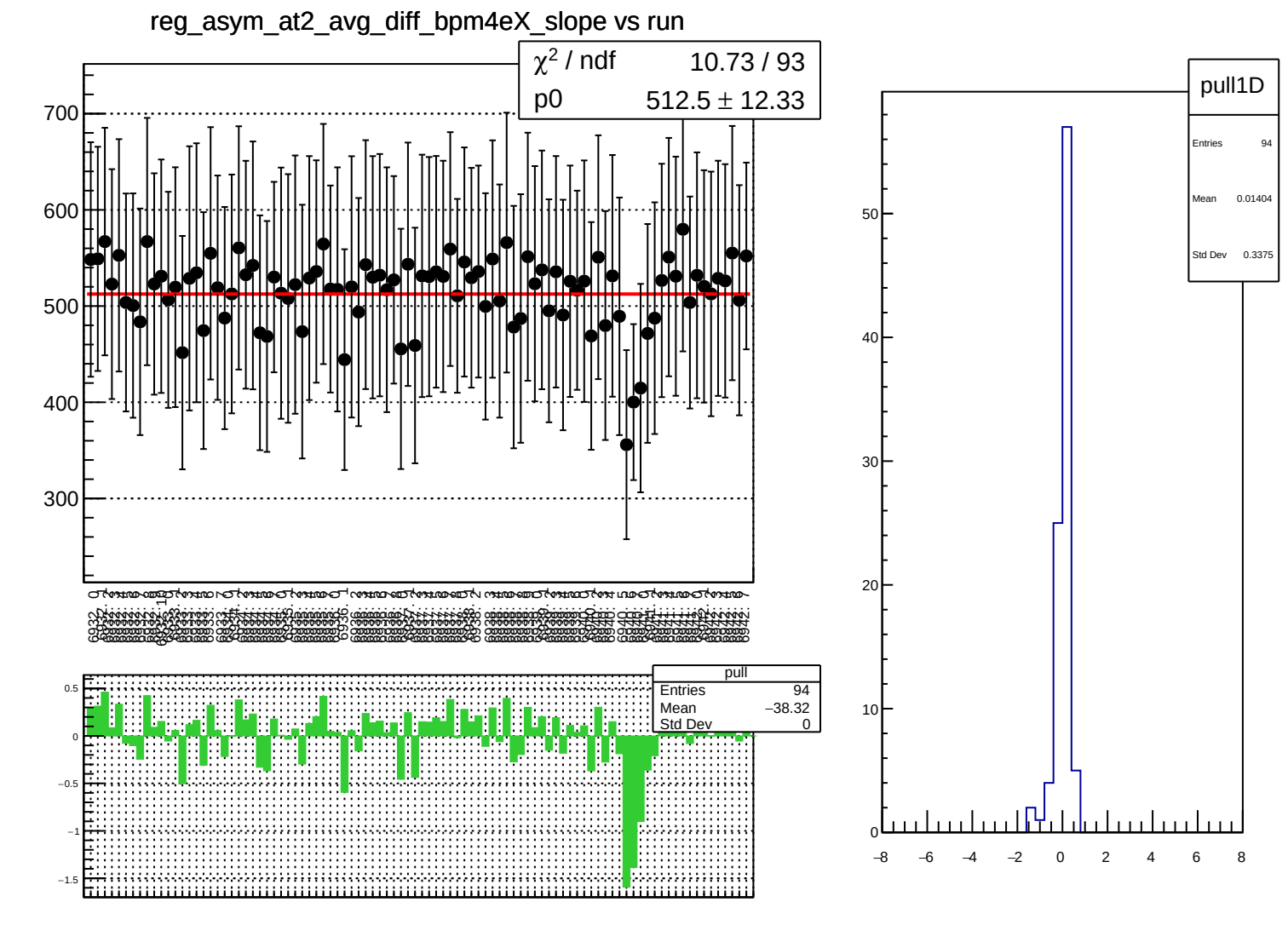

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 101 / 93
p0 −1.759 ± 0.07081
pull
Entries 94
Mean 5308
Std Dev 0
pull1D
Entries 94
Mean −0.001098
Std Dev 1.037

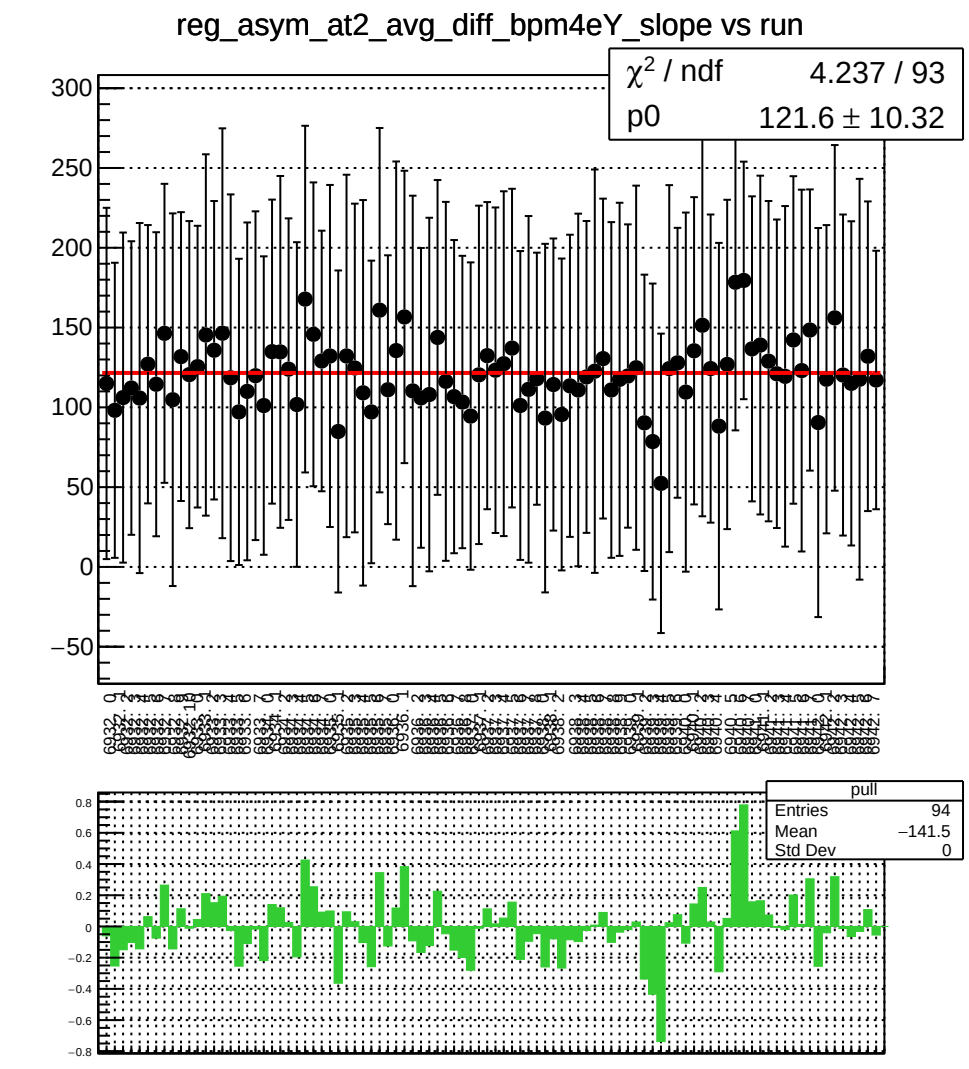

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 10.74 / 93
p0 −527.8 ± 13.3
−300
−400
−500
−600
−700
pull
Entries 94
Mean −31.58
Std Dev 0
1.5
1
0.5
0
−0.5

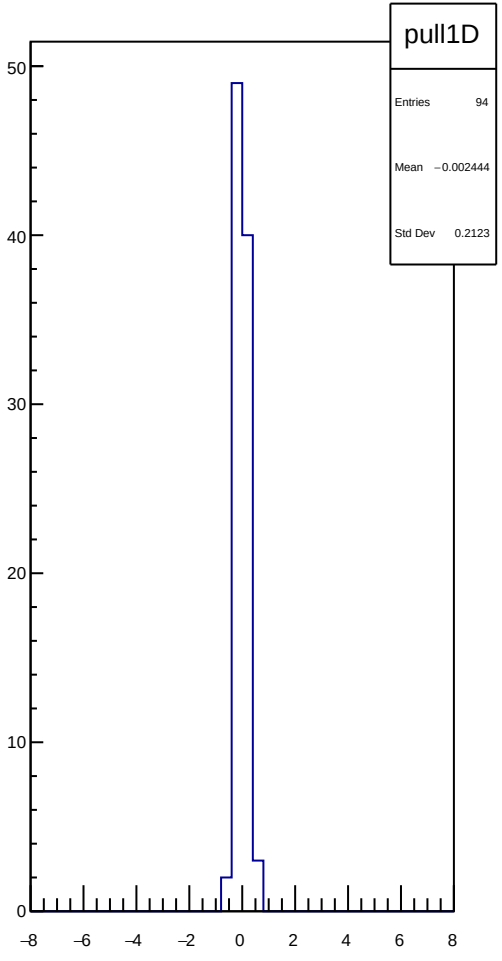

pull1D
Entries 94
Mean −0.01368
Std Dev 0.3378
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

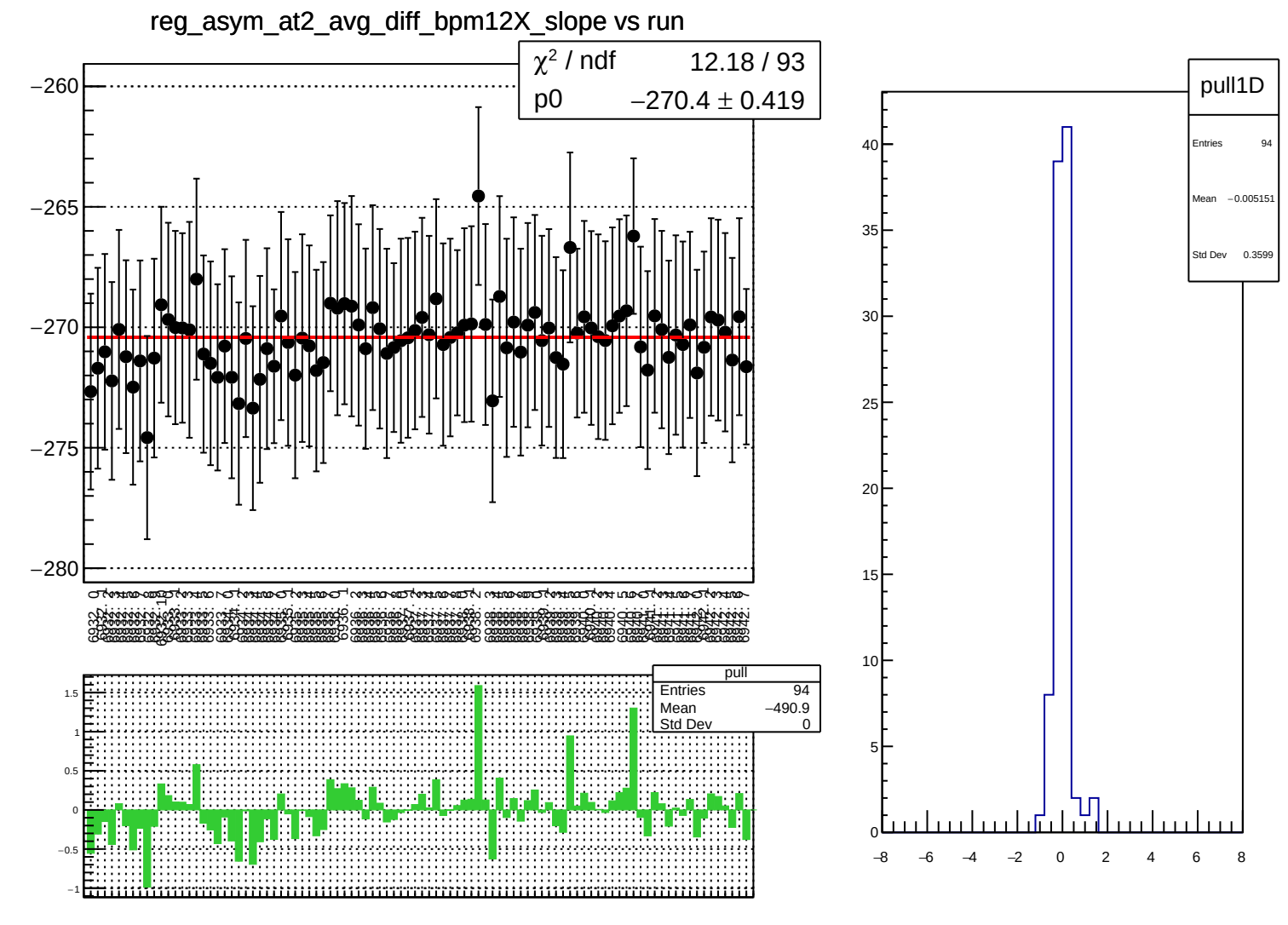

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.605 / 93
p0 12.49 ± 8.933
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −107.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

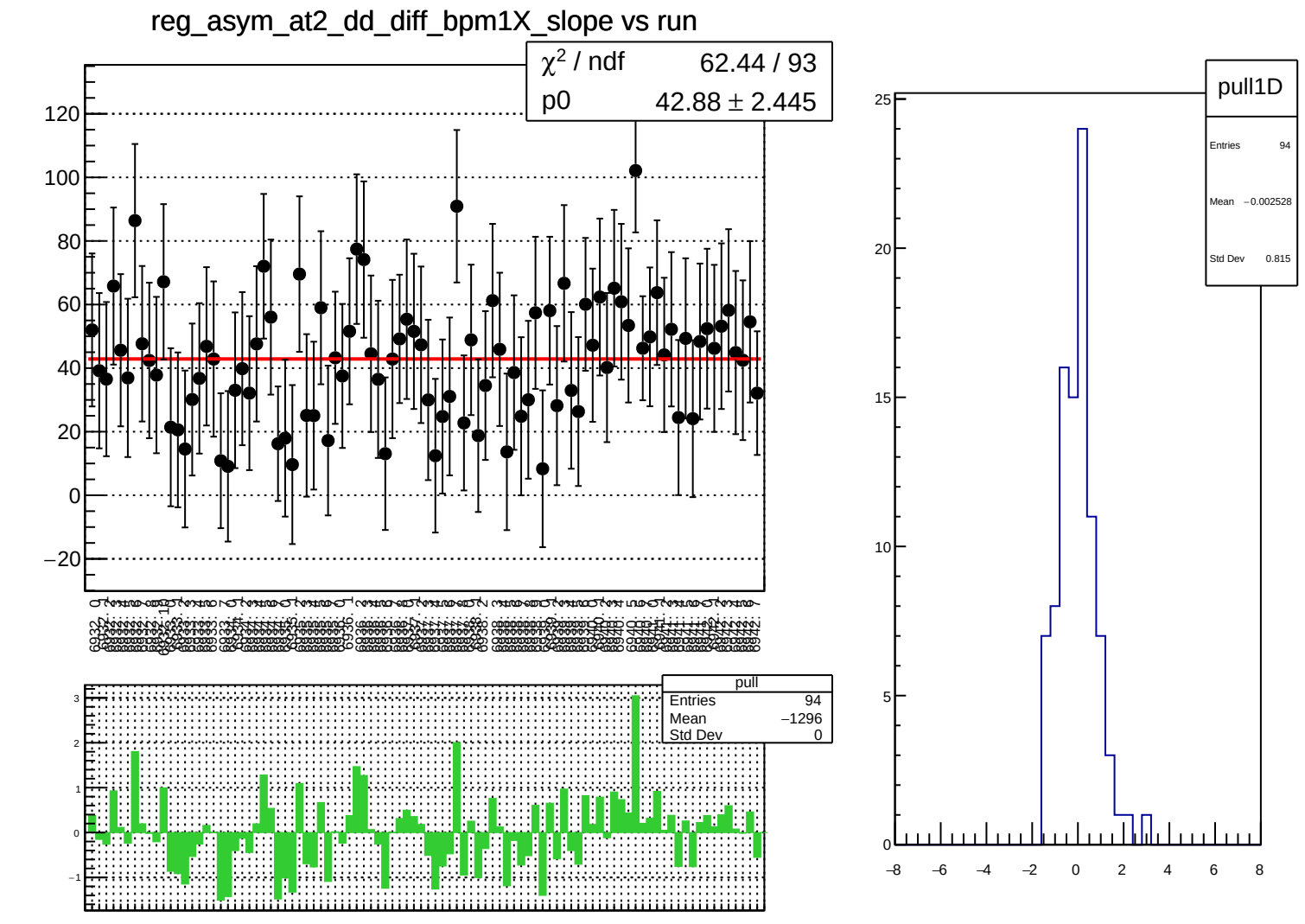

pull1D
Entries 94
Mean 0.001806
Std Dev 0.1958
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

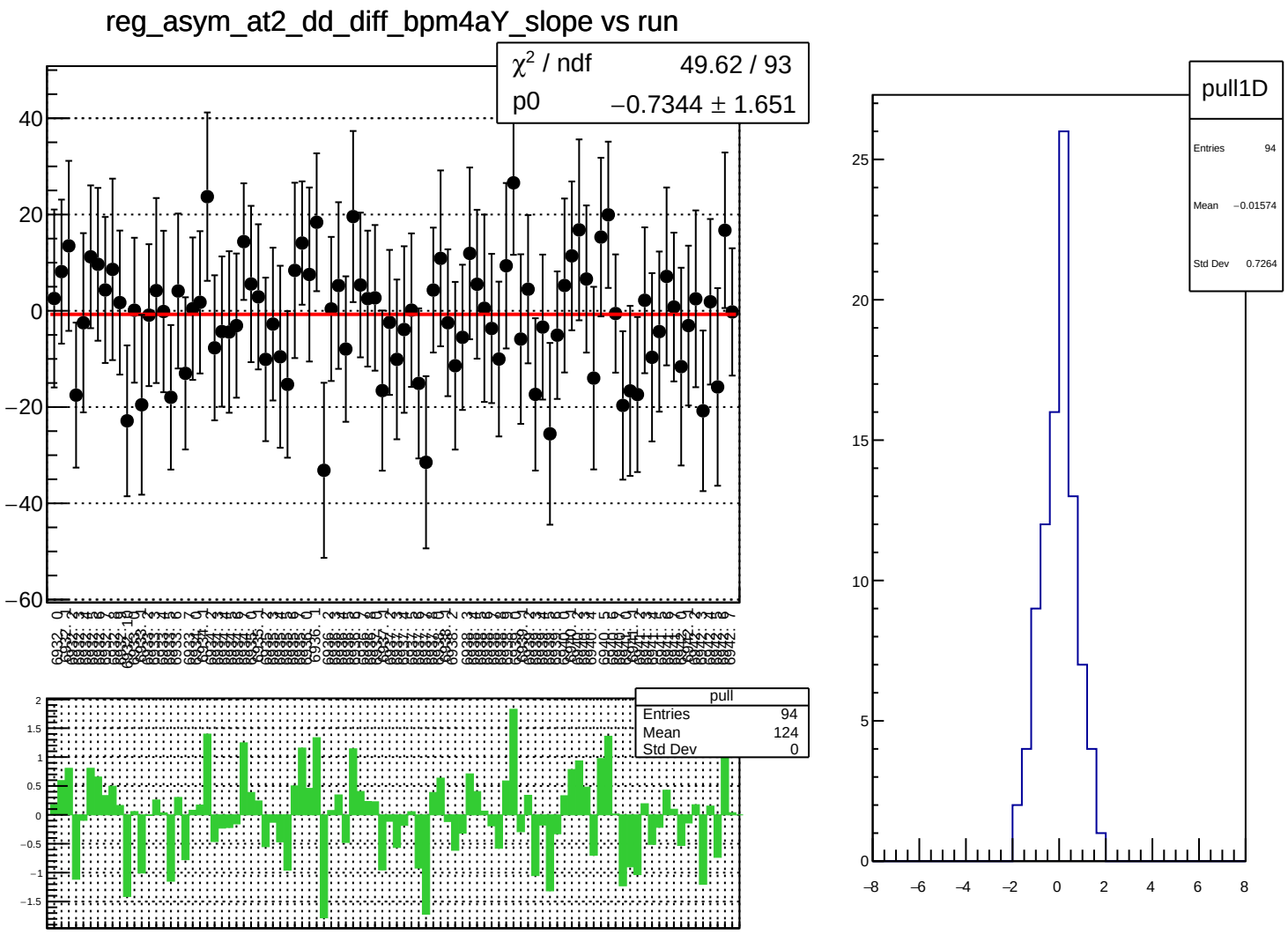

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.73 / 93
p0 512.5 ± 12.33
700
600
500
400
300
pull
Entries 94
Mean −38.32
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01404
Std Dev 0.3375
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

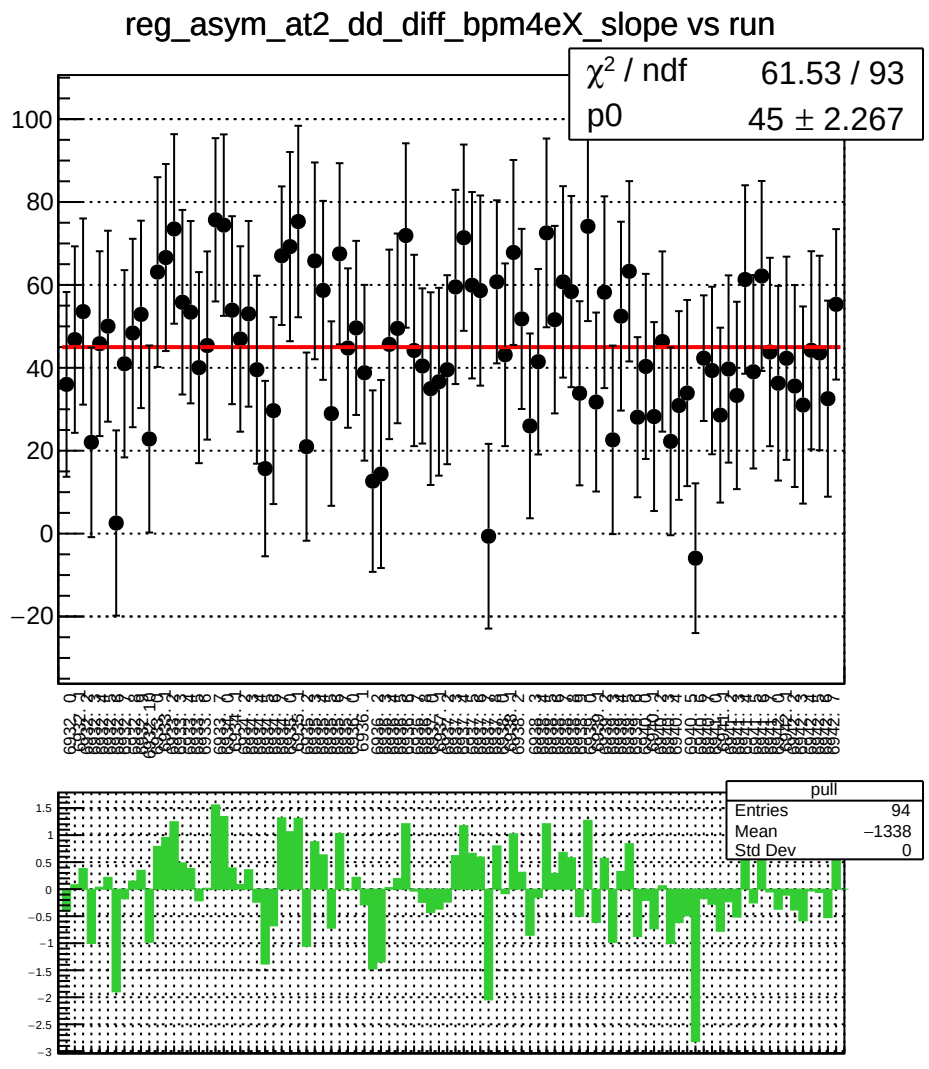

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.237 / 93
p0 121.6 ± 10.32
300
250
200
150
100
50
0
−50
pull
Entries 94
Mean −141.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

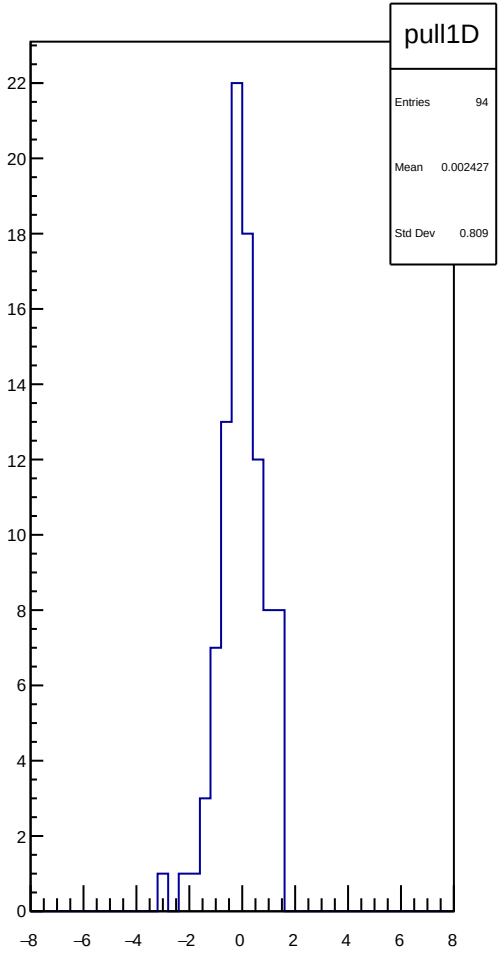

pull1D
Entries 94
Mean −0.002444
Std Dev 0.2123
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

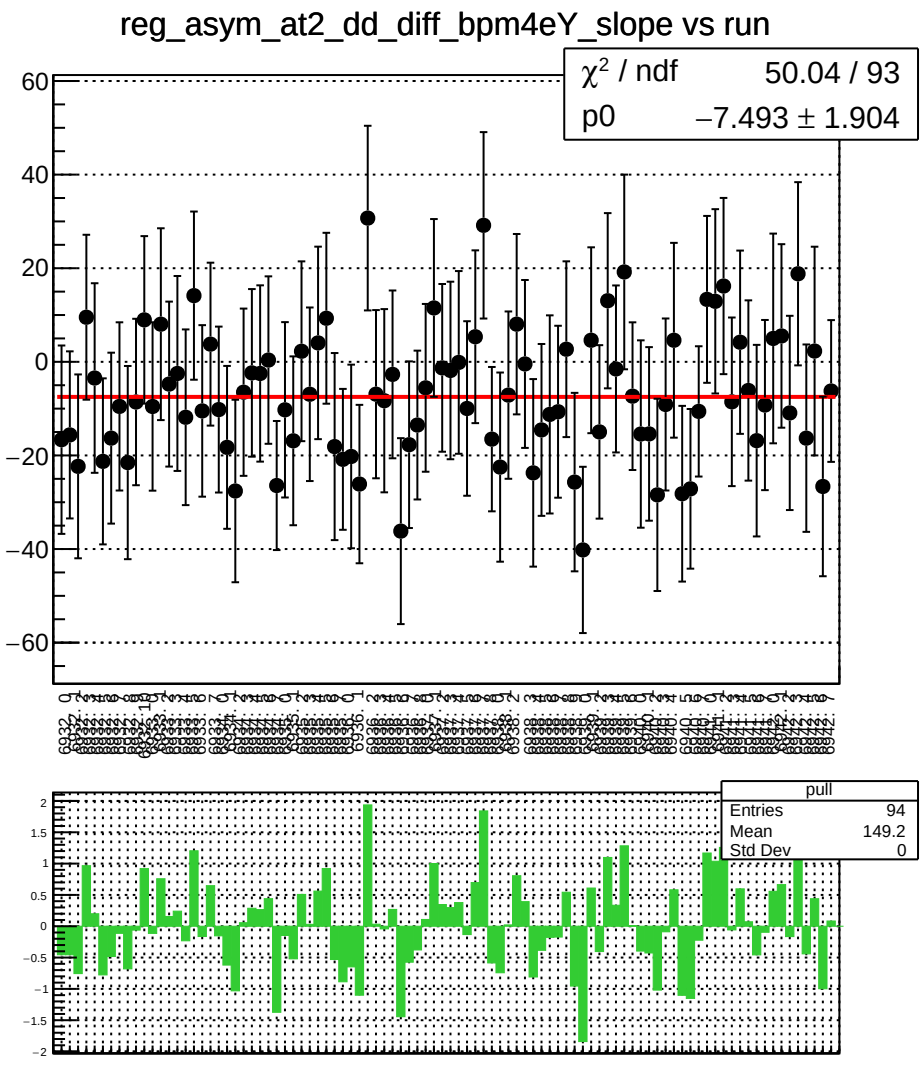

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 12.18 / 93
p0 −270.4 ± 0.419
−260
−265
−270
−275
−280
pull
Entries 94
Mean −490.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.005151
Std Dev 0.3599
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

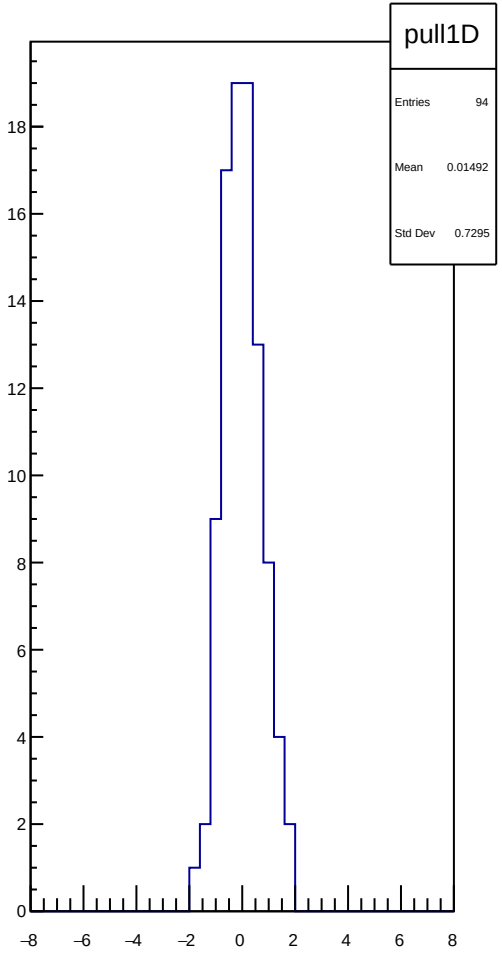

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 62.44 / 93
p0 42.88 ± 2.445
pull
Entries 94
Mean −1296
Std Dev 0
pull1D
Entries 94
Mean −0.002528
Std Dev 0.815

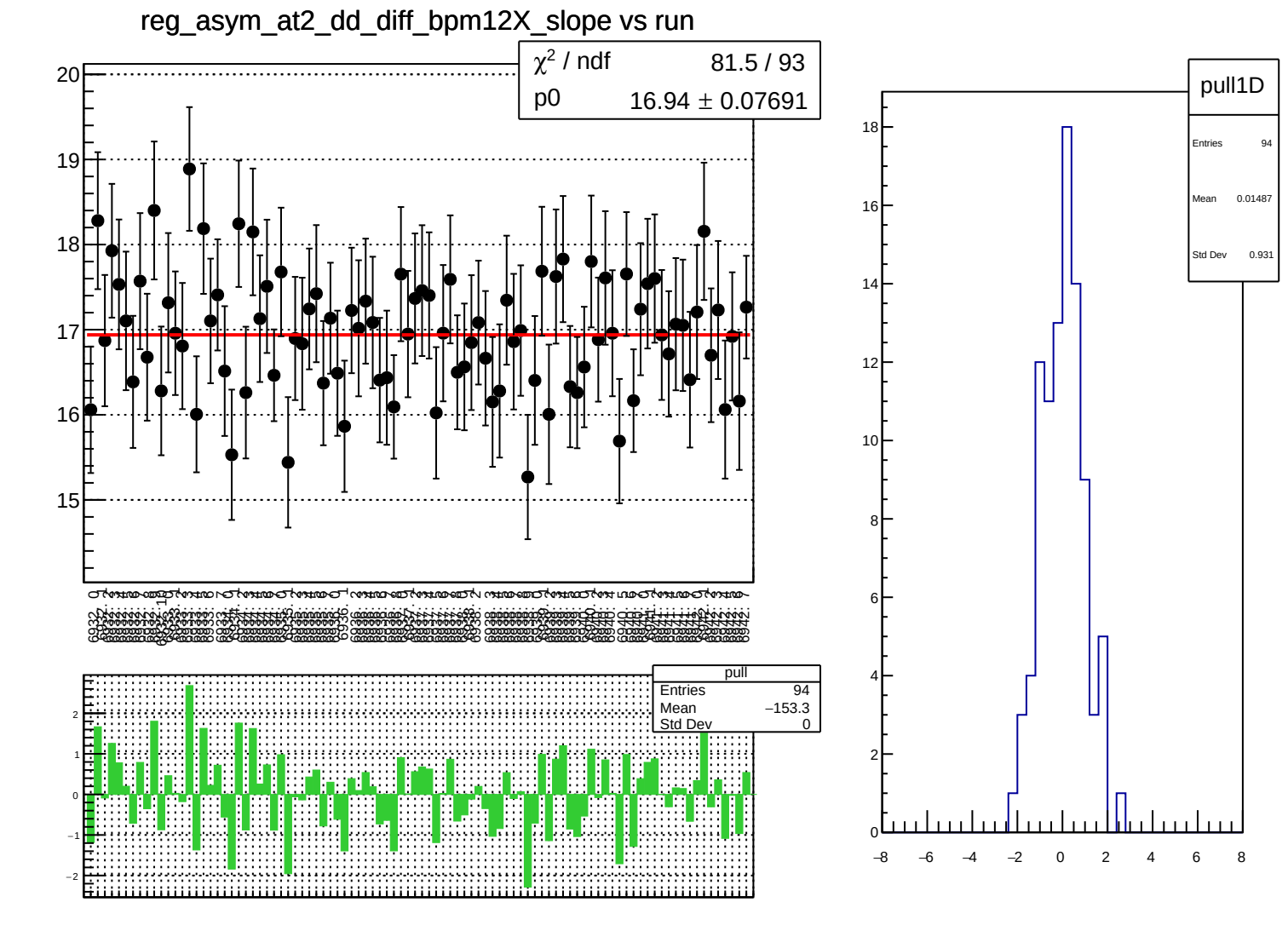

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.62 / 93
p0 −0.7344 ± 1.651
pull
Entries 94
Mean 124
Std Dev 0
pull1D
Entries 94
Mean −0.01574
Std Dev 0.7264

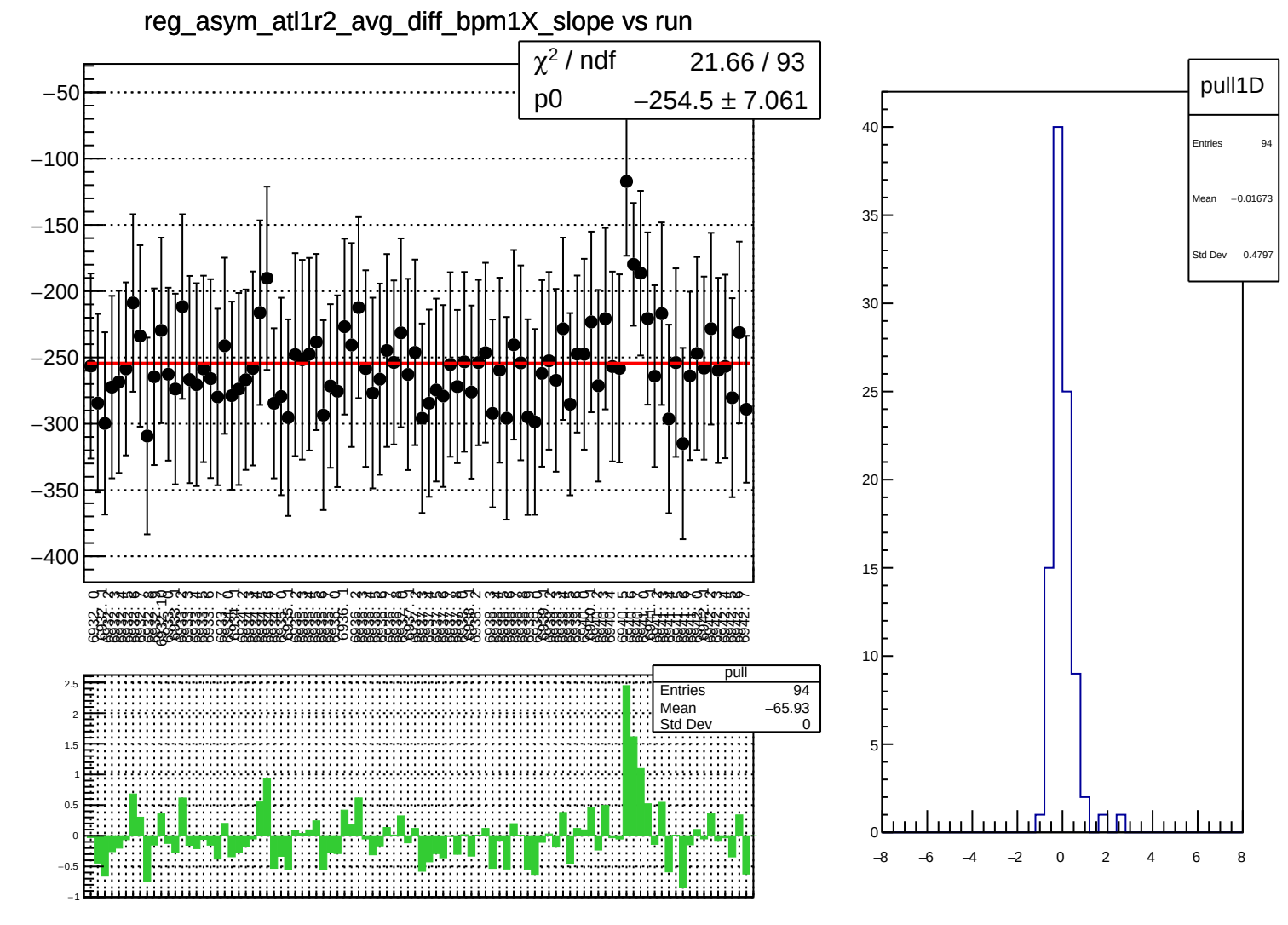

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.53 / 93
p0 45 ± 2.267
pull
Entries 94
Mean −1338
Std Dev 0

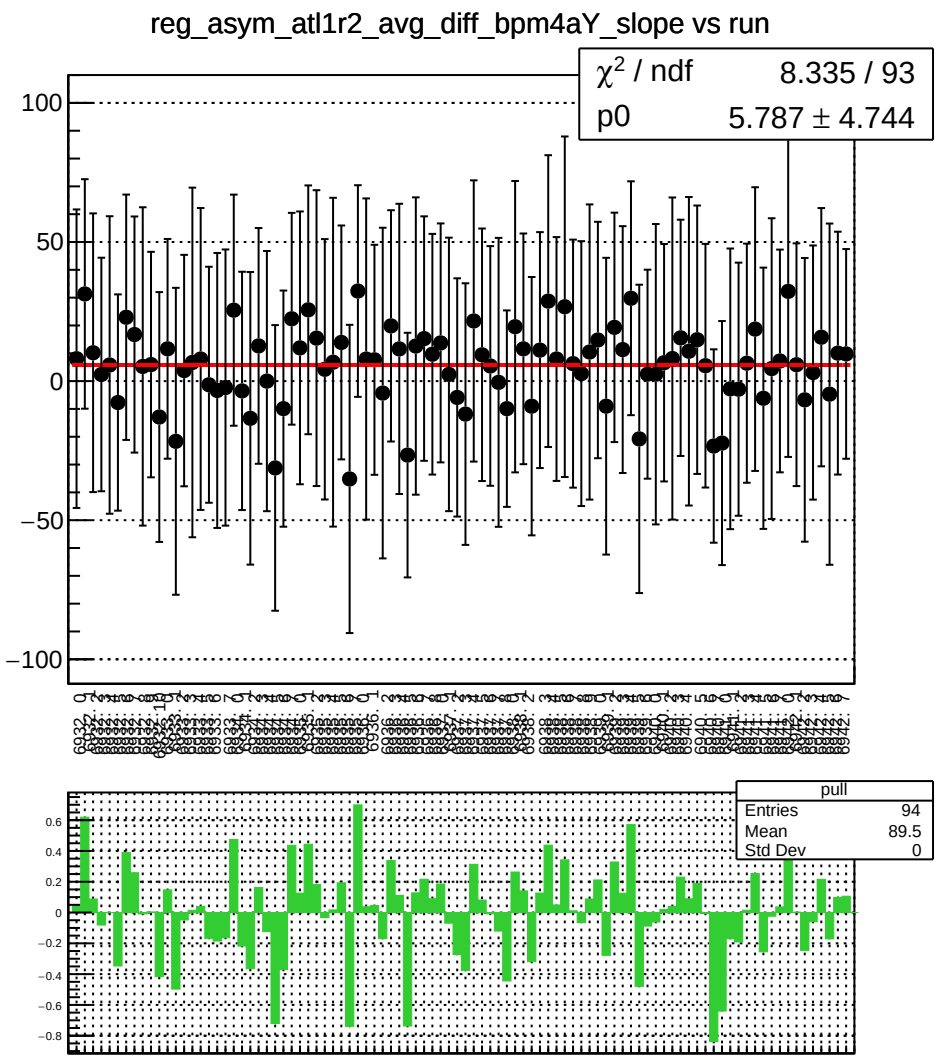

pull1D
Entries 94
Mean 0.002427
Std Dev 0.809

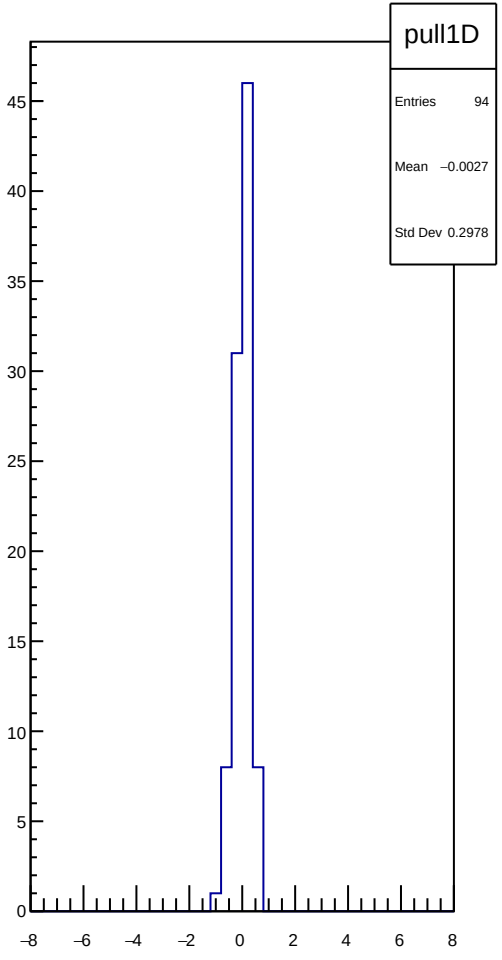

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.04 / 93
p0 −7.493 ± 1.904
pull
Entries 94
Mean 149.2
Std Dev 0

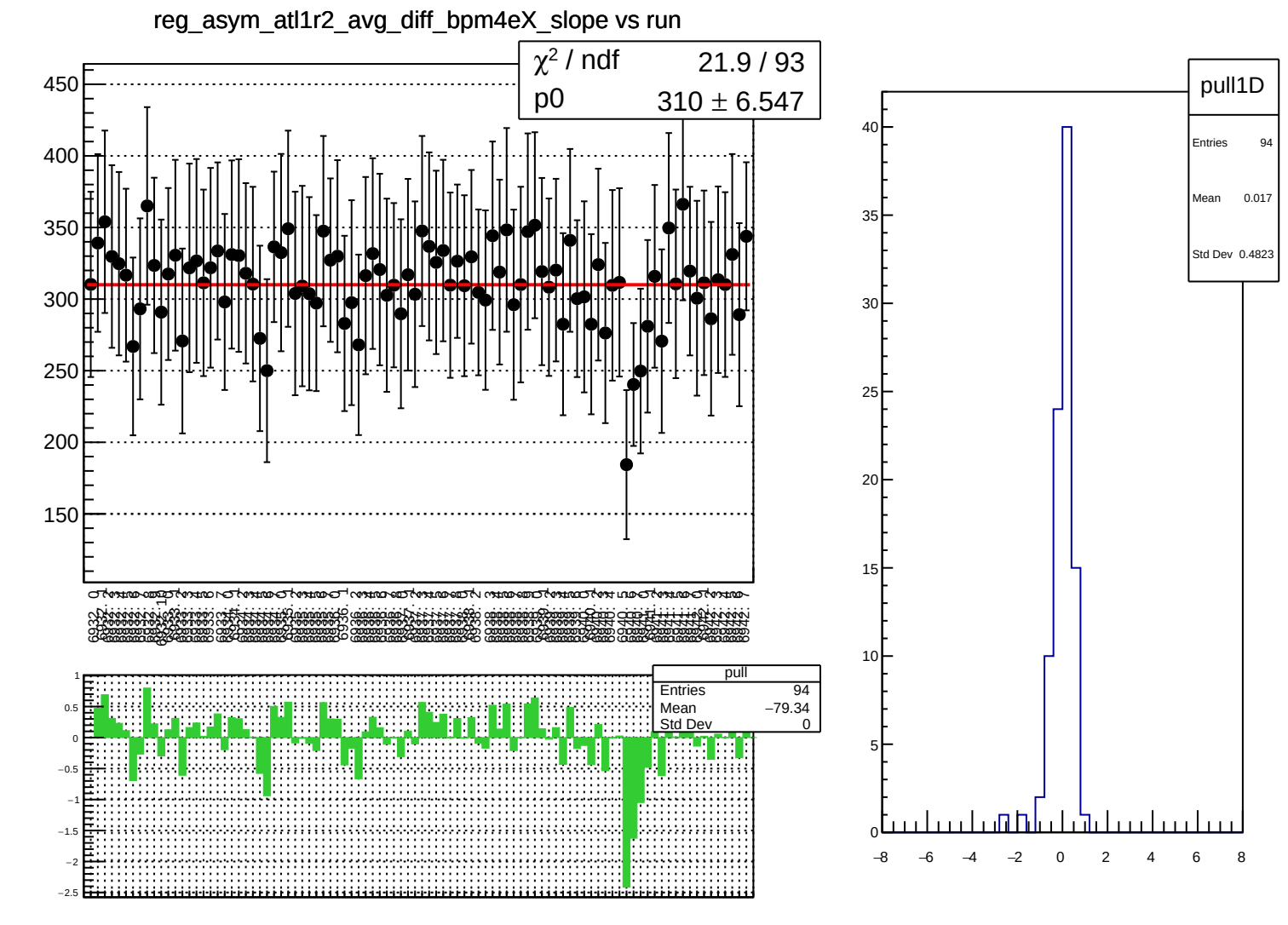

pull1D
Entries 94
Mean 0.01492
Std Dev 0.7295

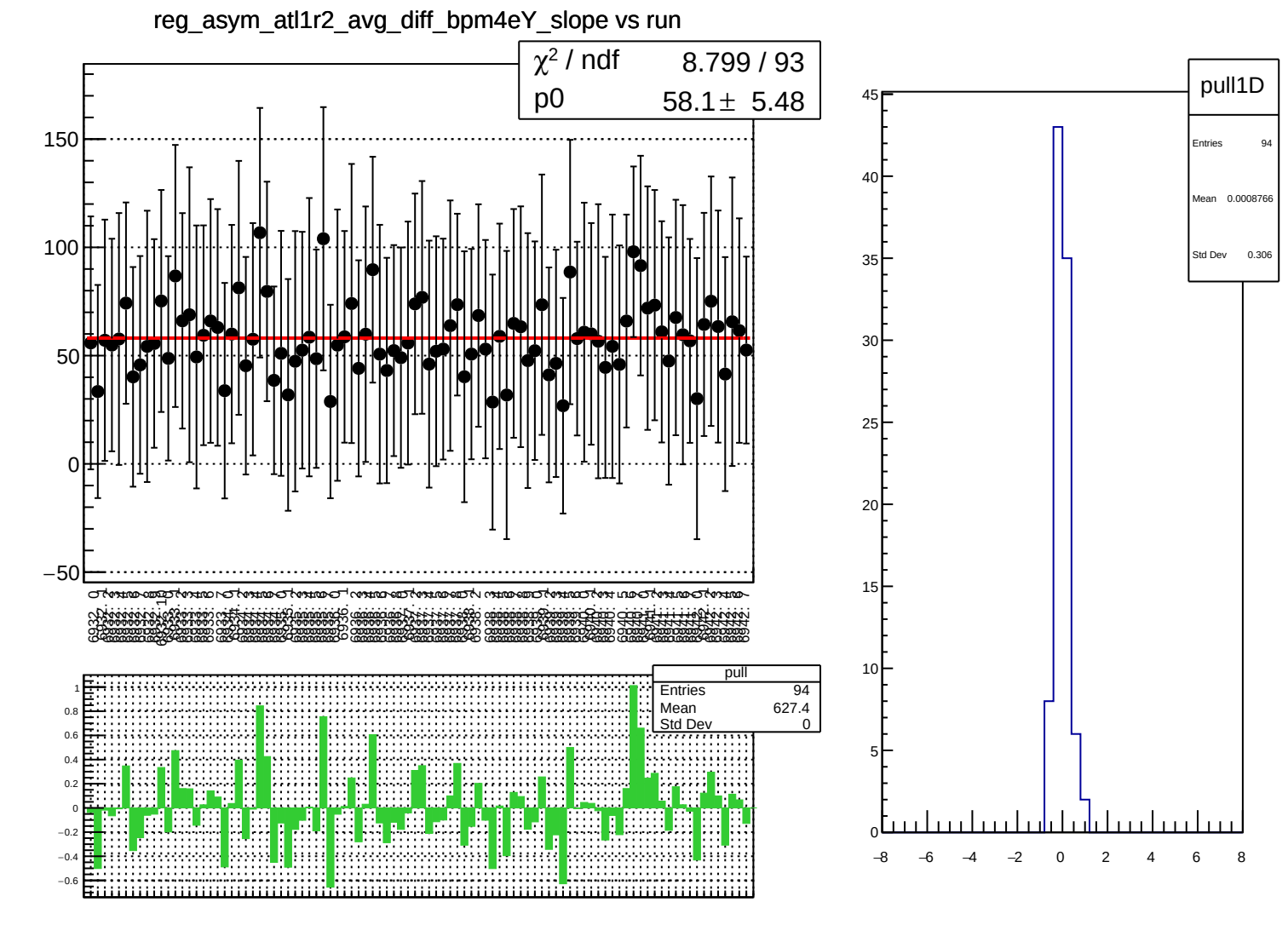

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 81.5 / 93
p0 16.94 ± 0.07691
pull
Entries 94
Mean −153.3
Std Dev 0
pull1D
Entries 94
Mean 0.01487
Std Dev 0.931

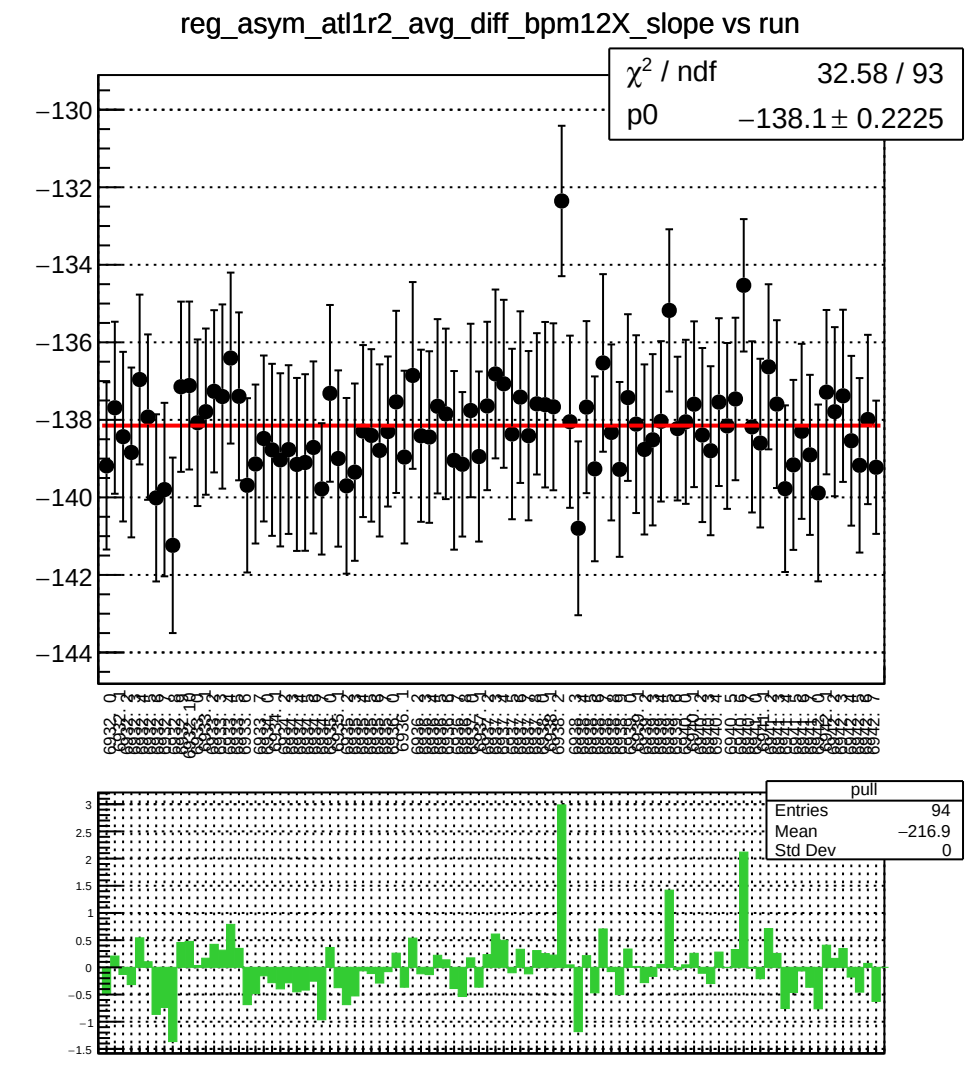

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.66 / 93
p0 −254.5 ± 7.061
pull
Entries 94
Mean −65.93
Std Dev 0
pull1D
Entries 94
Mean −0.01673
Std Dev 0.4797

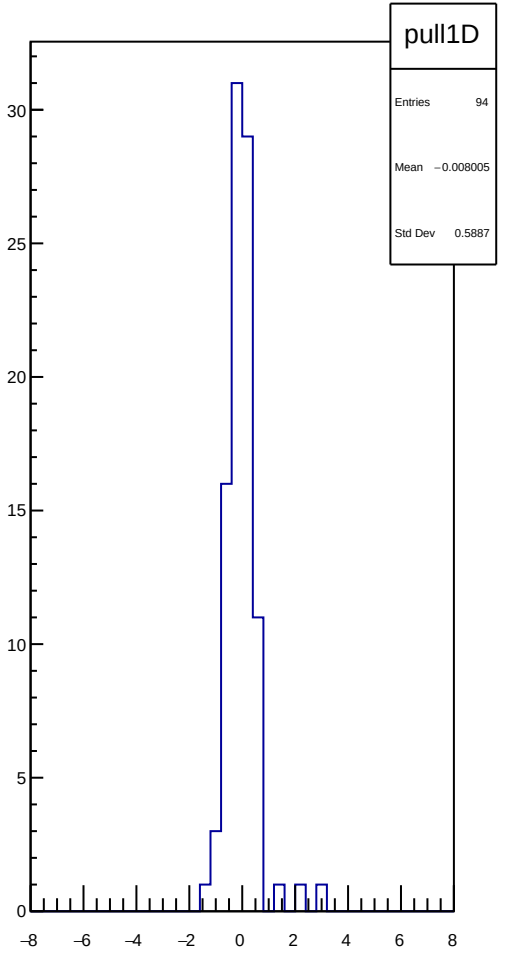

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.335 / 93
p0 5.787 ± 4.744
100
50
0
−50
−100
pull
Entries 94
Mean 89.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

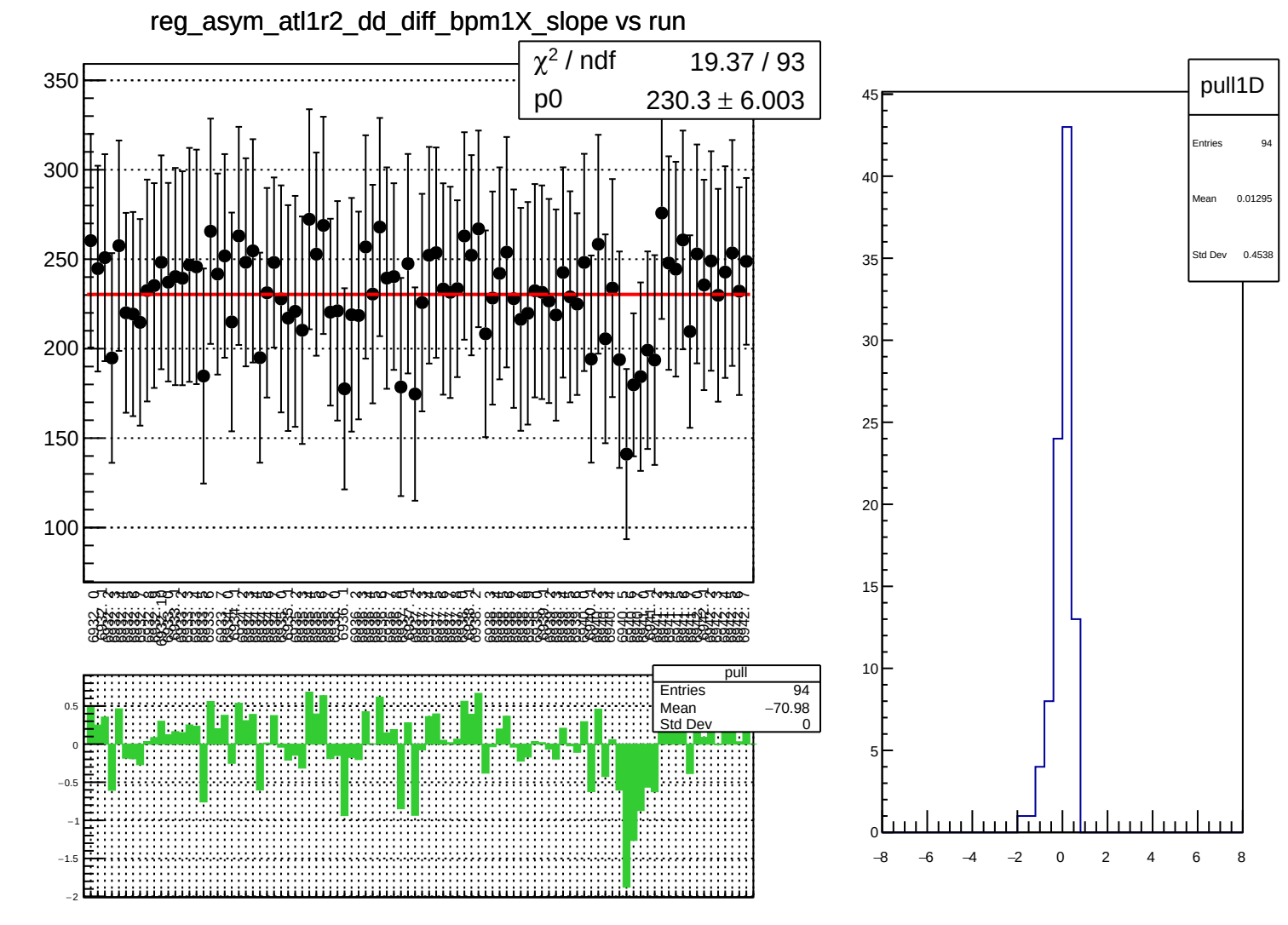

pull1D
Entries 94
Mean −0.0027
Std Dev 0.2978
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

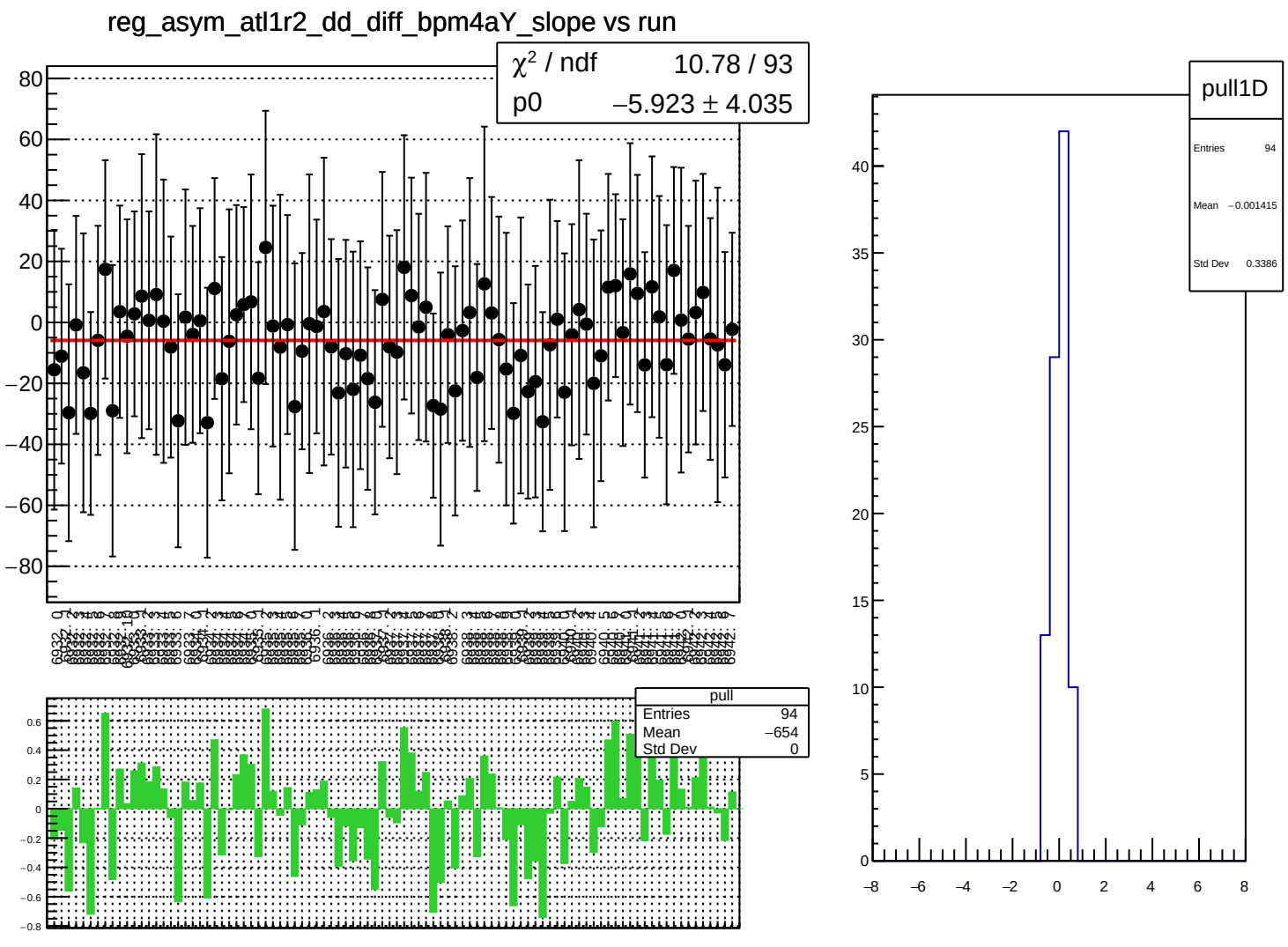

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.9 / 93
p0 310 ± 6.547
pull
Entries 94
Mean −79.34
Std Dev 0
pull1D
Entries 94
Mean 0.017
Std Dev 0.4823

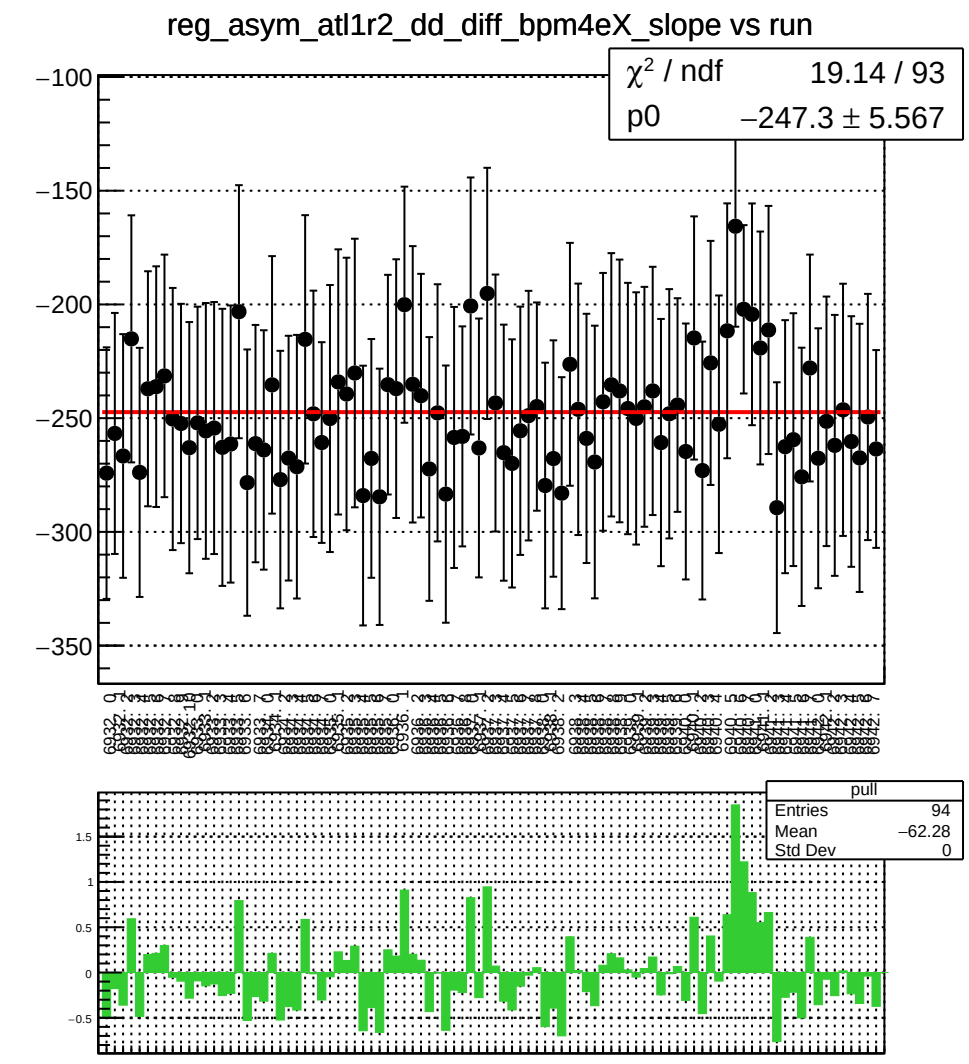

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.799 / 93
p0 58.1 ± 5.48
150
100
50
0
−50
pull
Entries 94
Mean 627.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.0008766
Std Dev 0.306
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

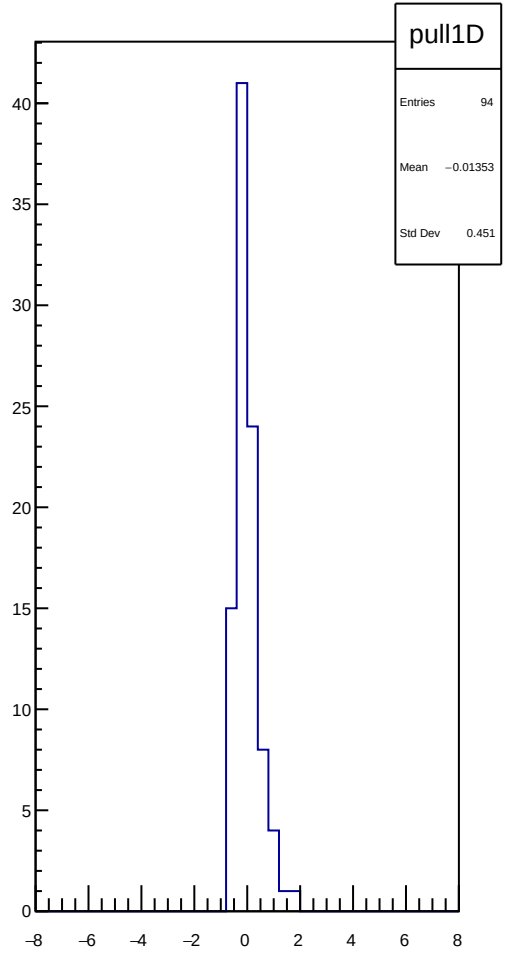

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 32.58 / 93
p0 −138.1 ± 0.2225
pull
Entries 94
Mean −216.9
Std Dev 0

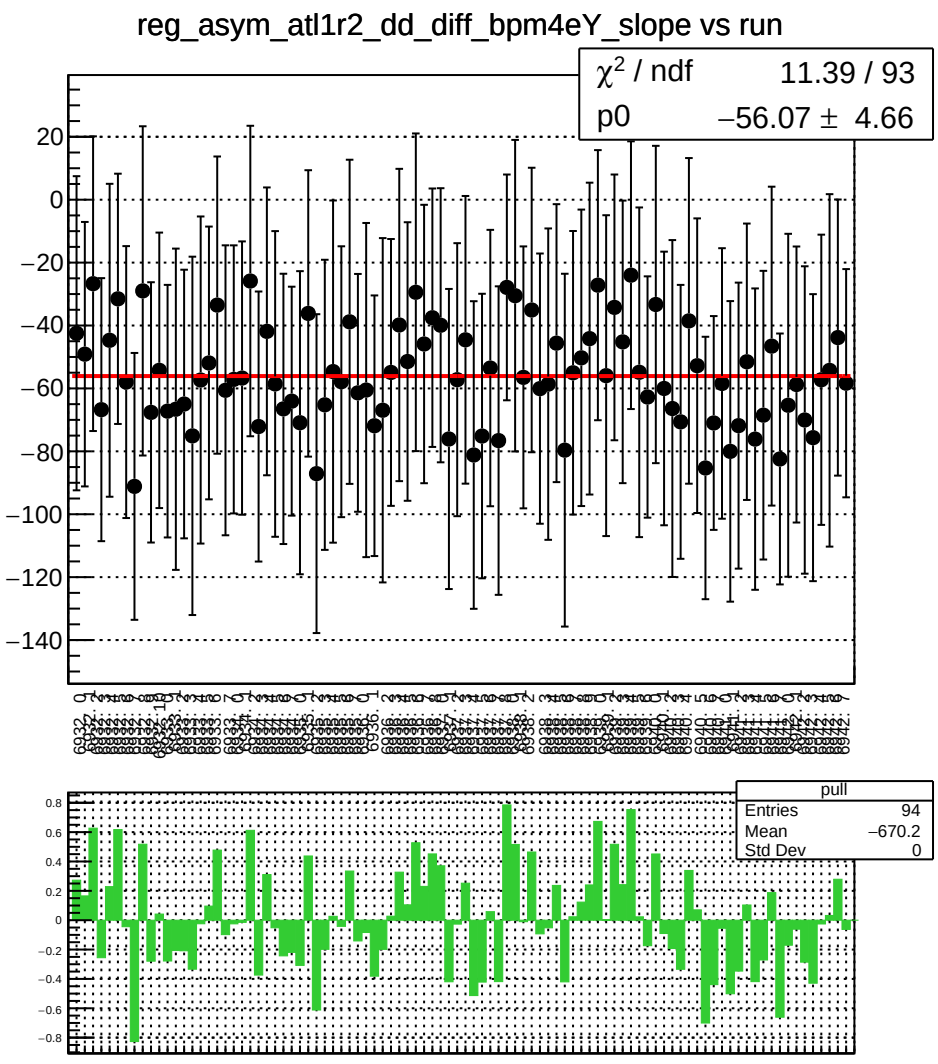

pull1D
Entries 94
Mean −0.008005
Std Dev 0.5887

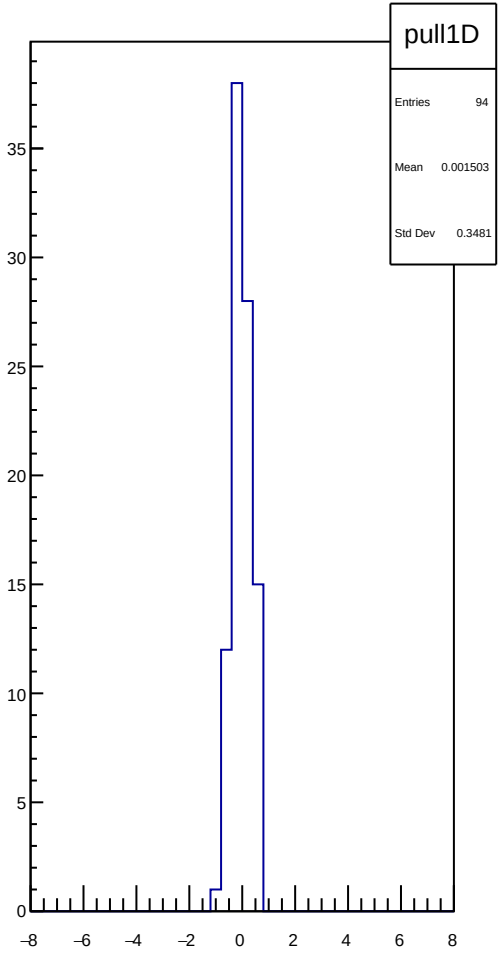

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 19.37 / 93
p0 230.3 ± 6.003
pull
Entries 94
Mean −70.98
Std Dev 0
pull1D
Entries 94
Mean 0.01295
Std Dev 0.4538

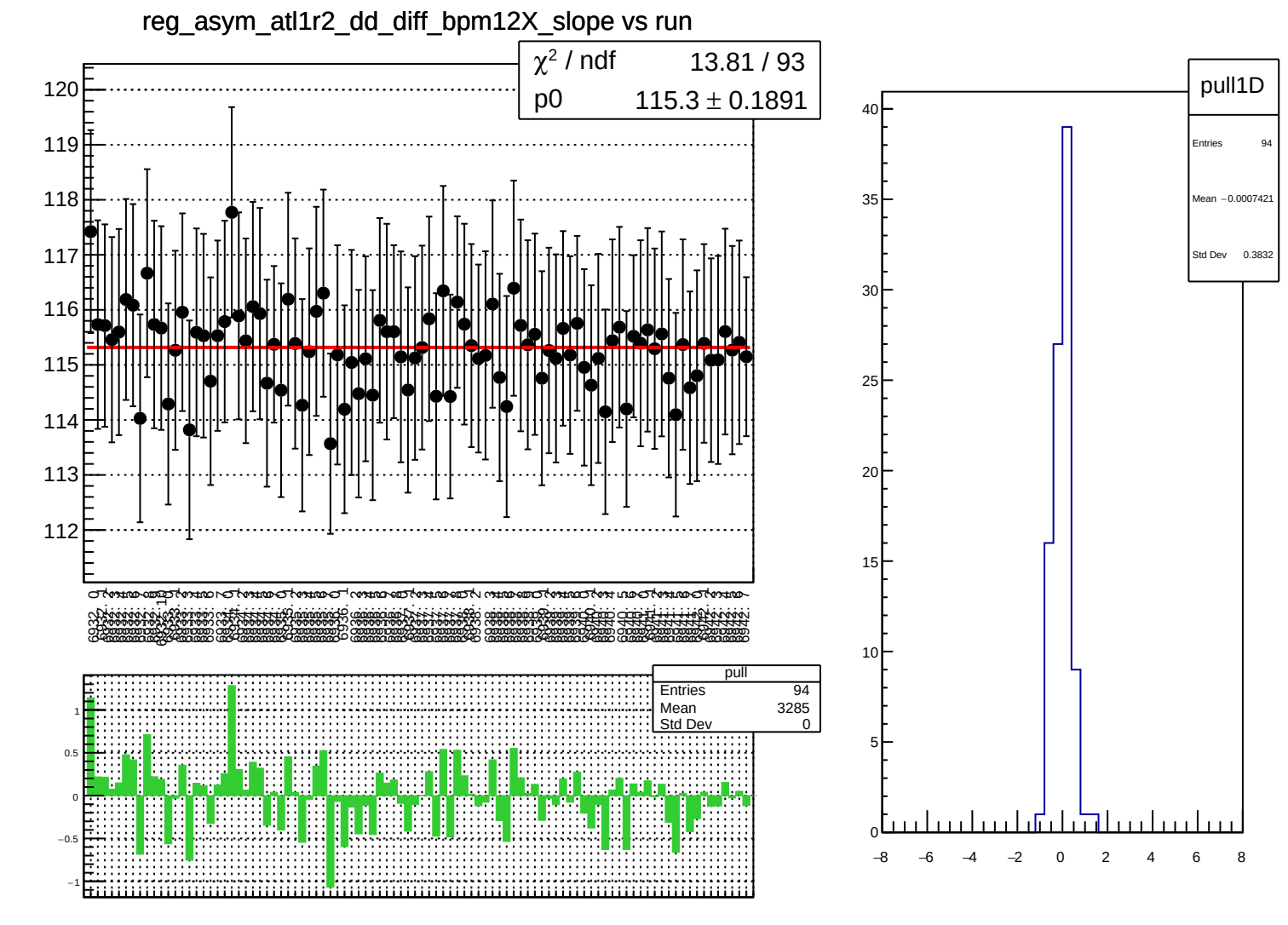

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.78 / 93
p0 −5.923 ± 4.035
pull
Entries 94
Mean −654
Std Dev 0
pull1D
Entries 94
Mean −0.001415
Std Dev 0.3386

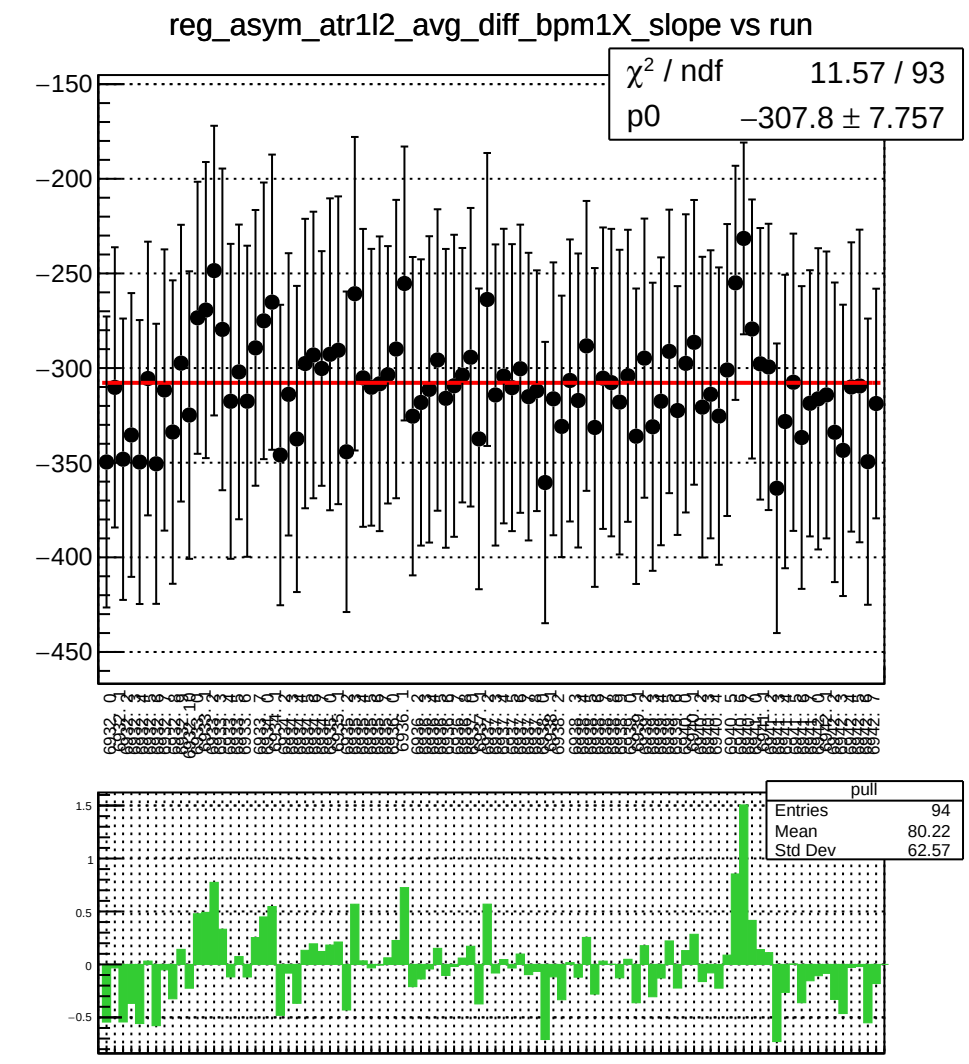

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.14 / 93
p0 −247.3 ± 5.567
−100
−150
−200
−250
−300
−350
pull
Entries 94
Mean −62.28
Std Dev 0
1.5
1
0.5
0
−0.5

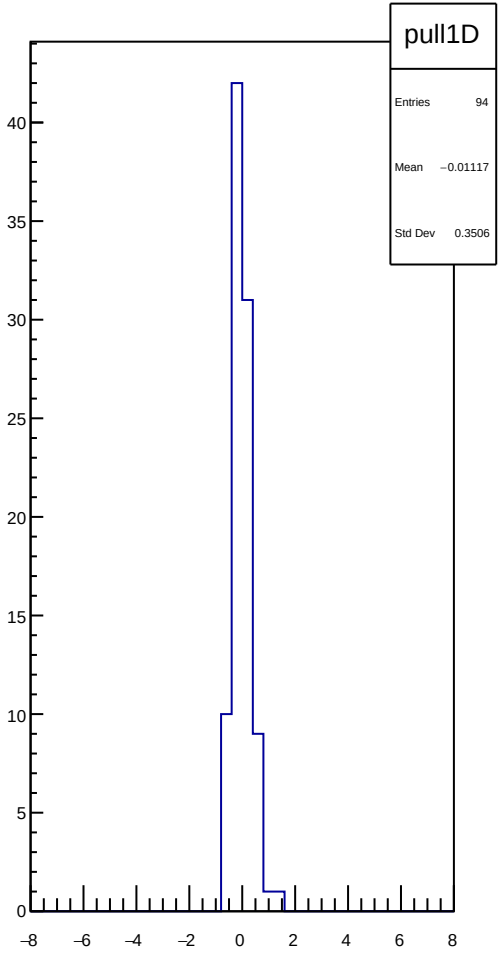

pull1D
Entries 94
Mean −0.01353
Std Dev 0.451
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

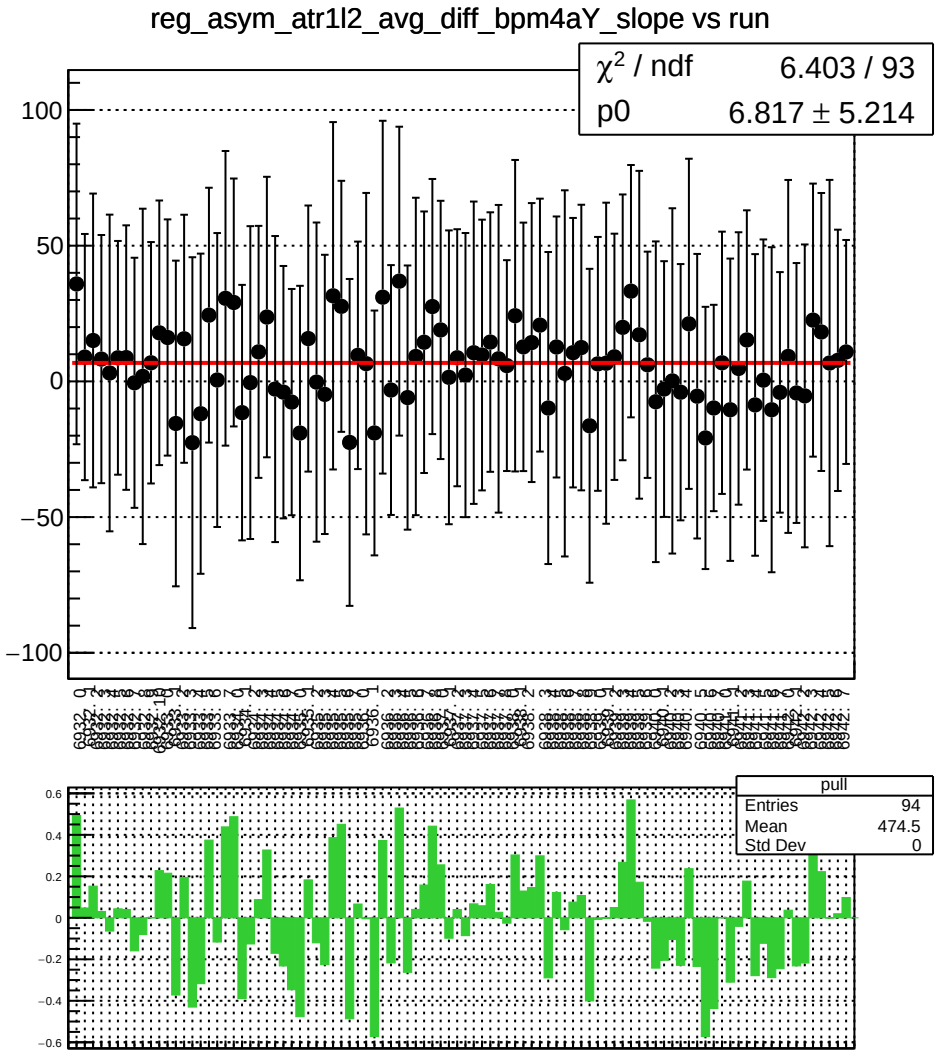

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.39 / 93
p0 −56.07 ± 4.66
pull
Entries 94
Mean −670.2
Std Dev 0

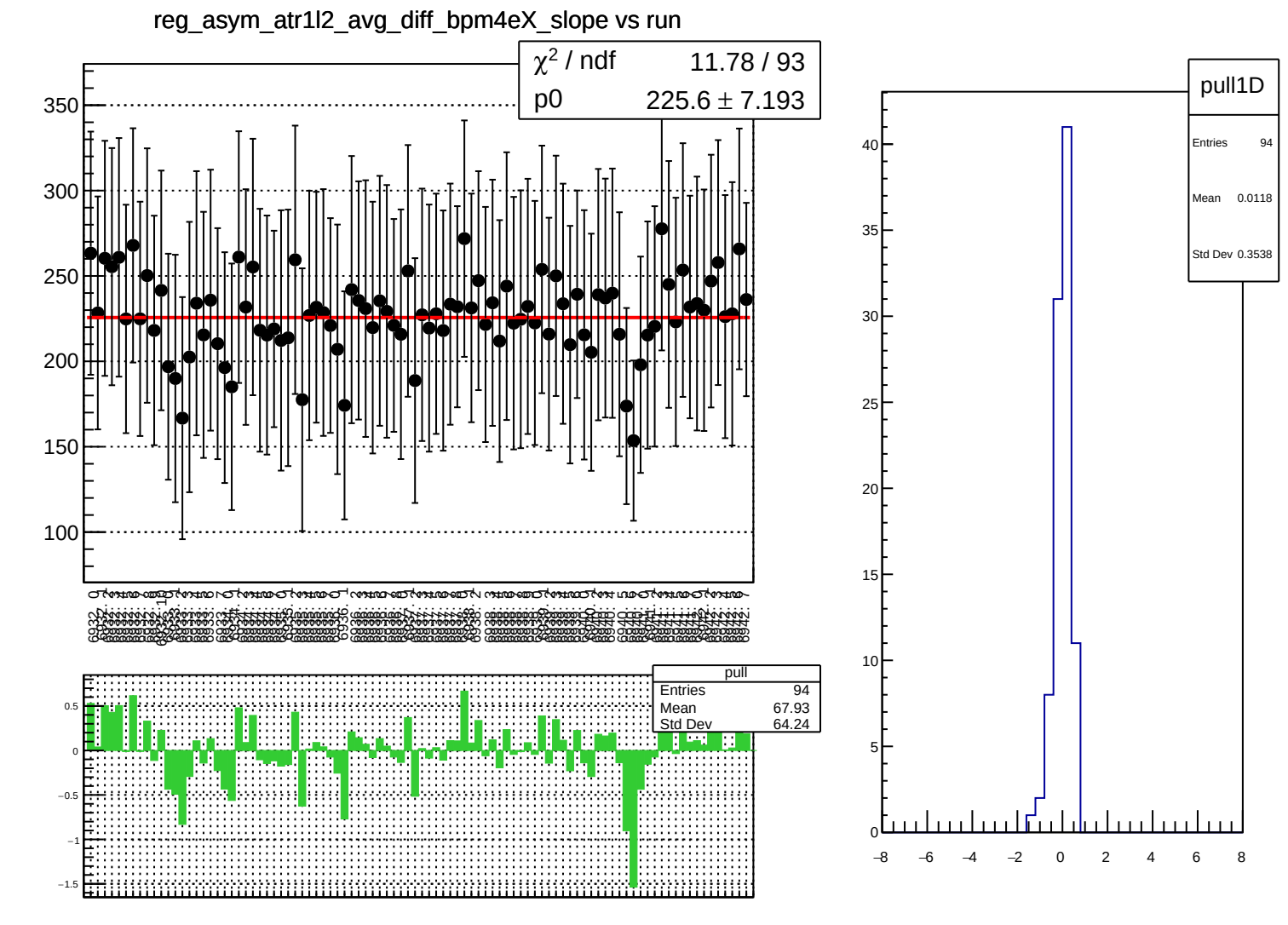

pull1D
Entries 94
Mean 0.001503
Std Dev 0.3481

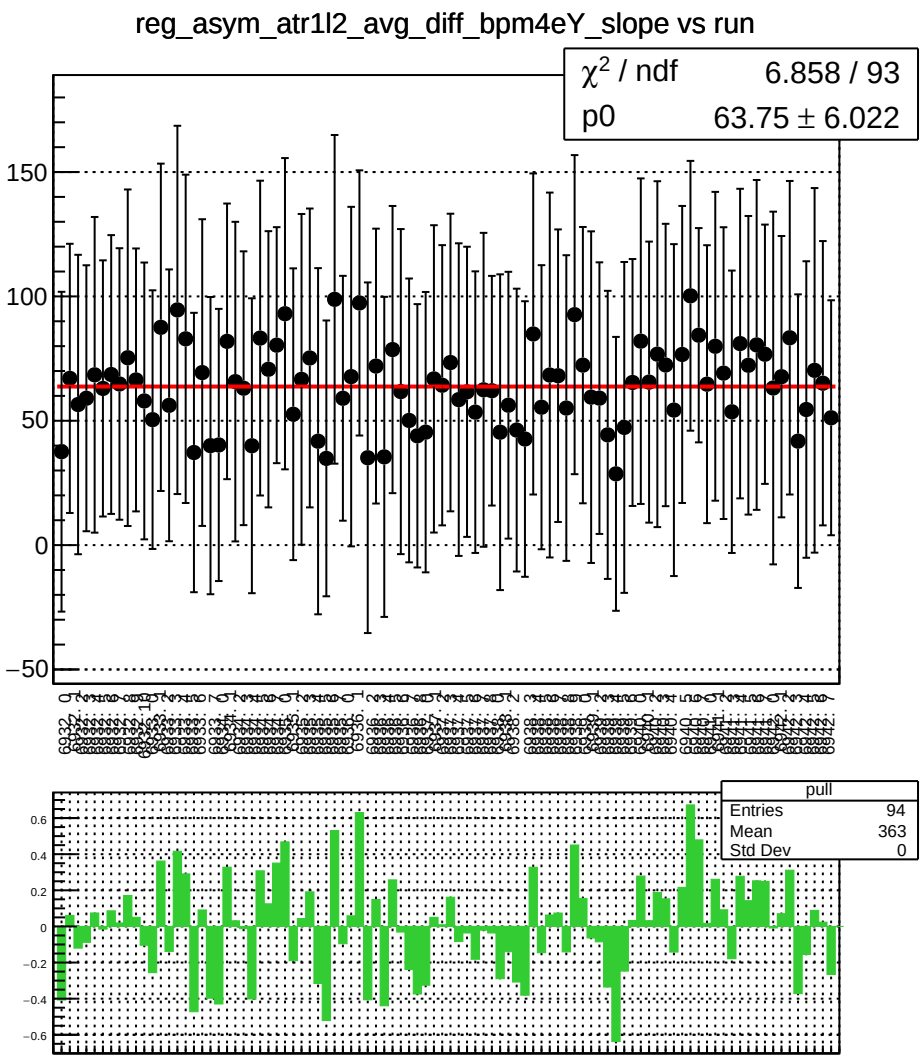

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.81 / 93
p0 115.3 ± 0.1891
pull
Entries 94
Mean 3285
Std Dev 0
pull1D
Entries 94
Mean −0.0007421
Std Dev 0.3832

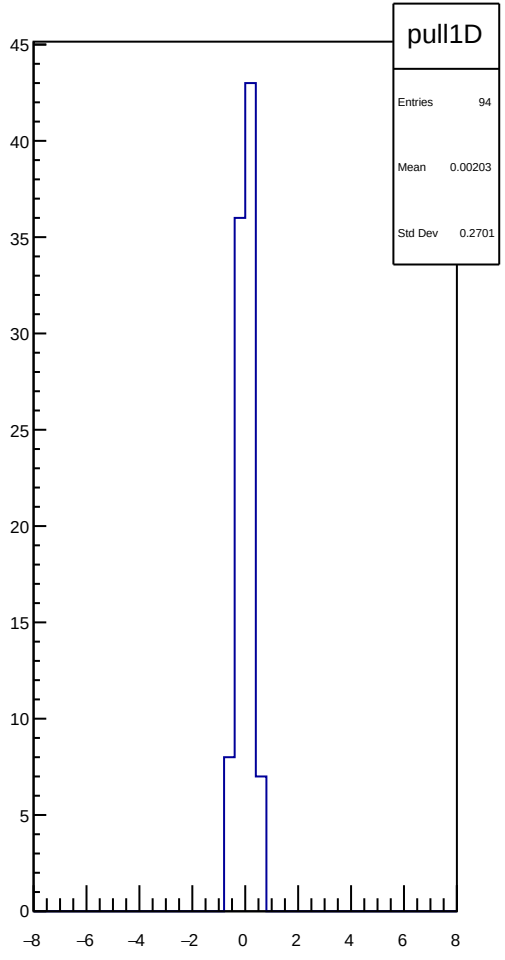

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.57 / 93
p0 −307.8 ± 7.757
pull
Entries 94
Mean 80.22
Std Dev 62.57

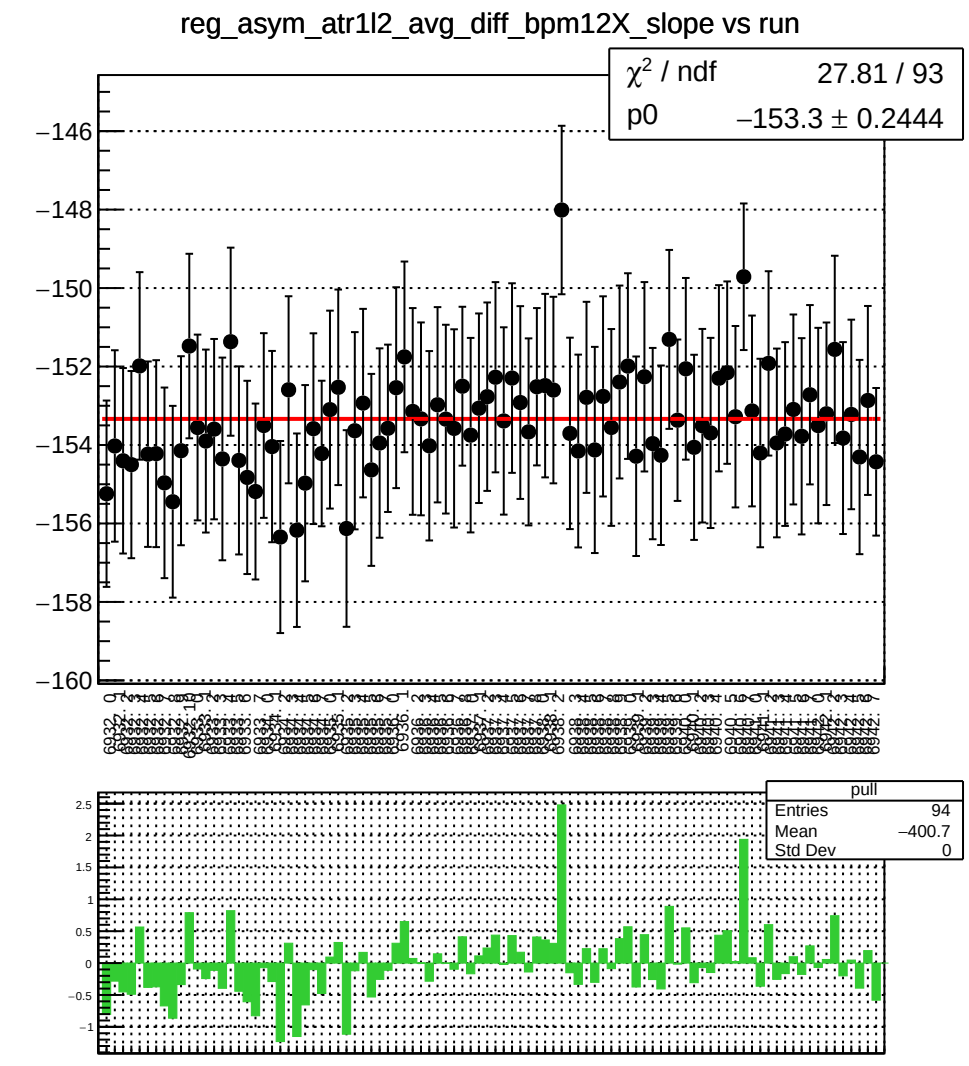

pull1D
Entries 94
Mean −0.01117
Std Dev 0.3506

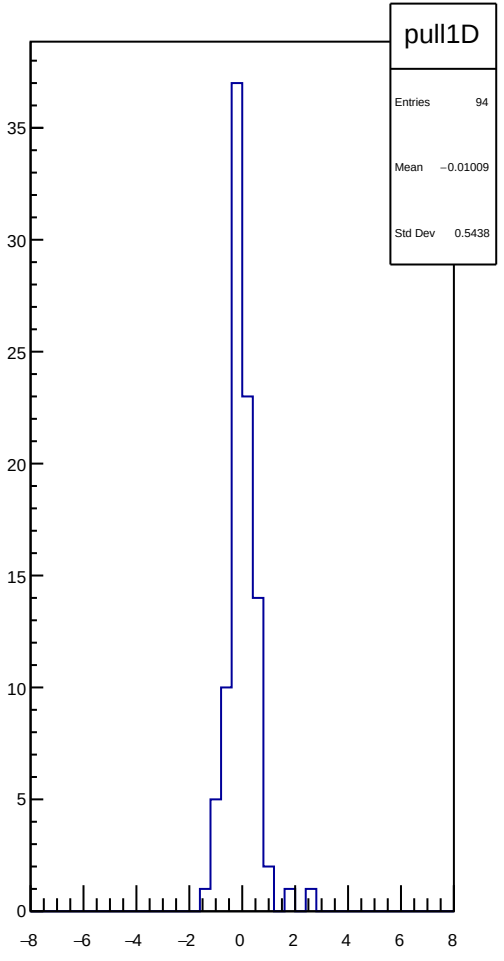

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.403 / 93
p0 6.817 ± 5.214
pull
Entries 94
Mean 474.5
Std Dev 0
pull1D
Entries 94
Mean −0.00189
Std Dev 0.261

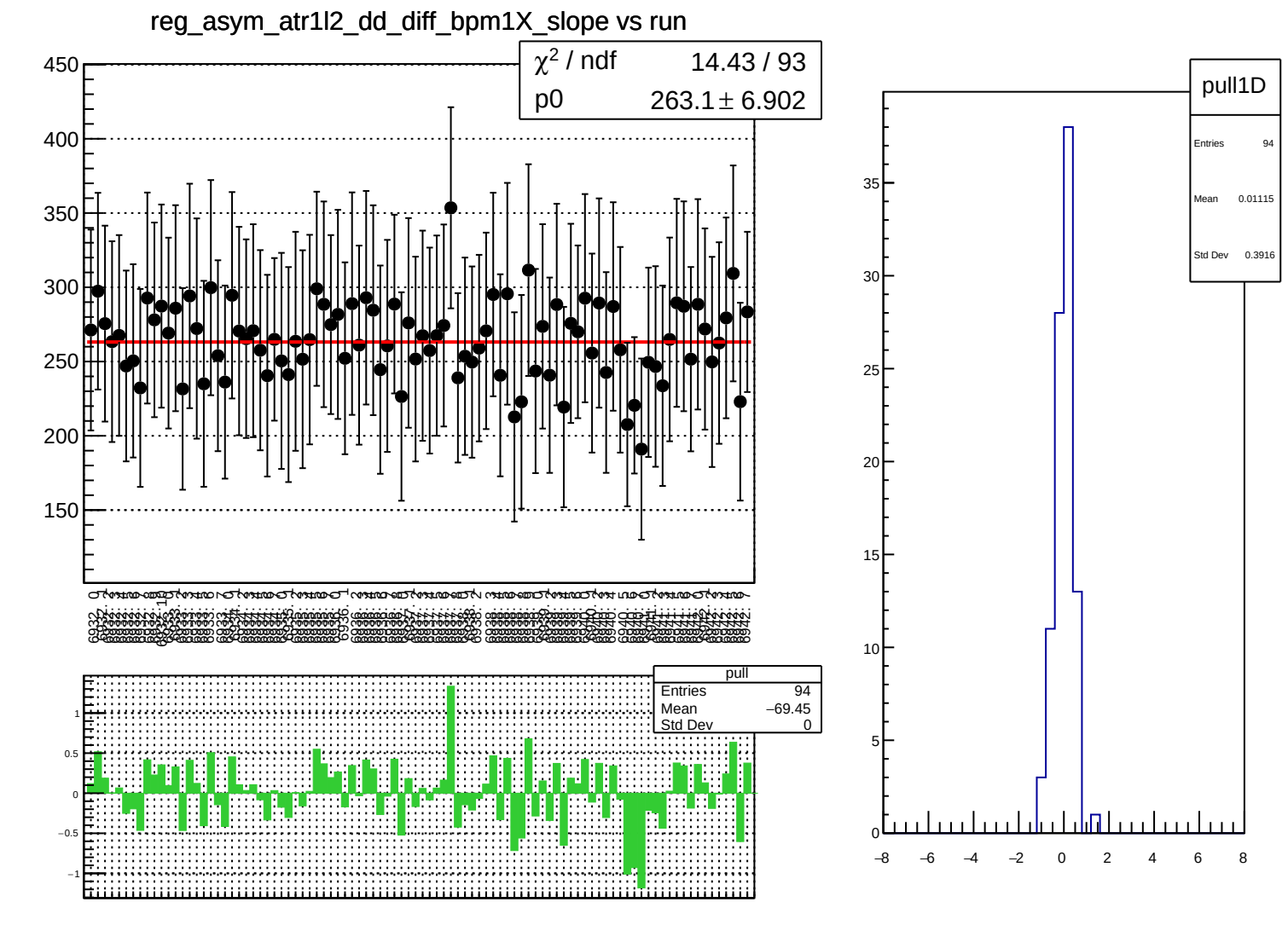

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.78 / 93
p0 225.6 ± 7.193
350
300
250
200
150
100
pull
Entries 94
Mean 67.93
Std Dev 64.24
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.0118
Std Dev 0.3538
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

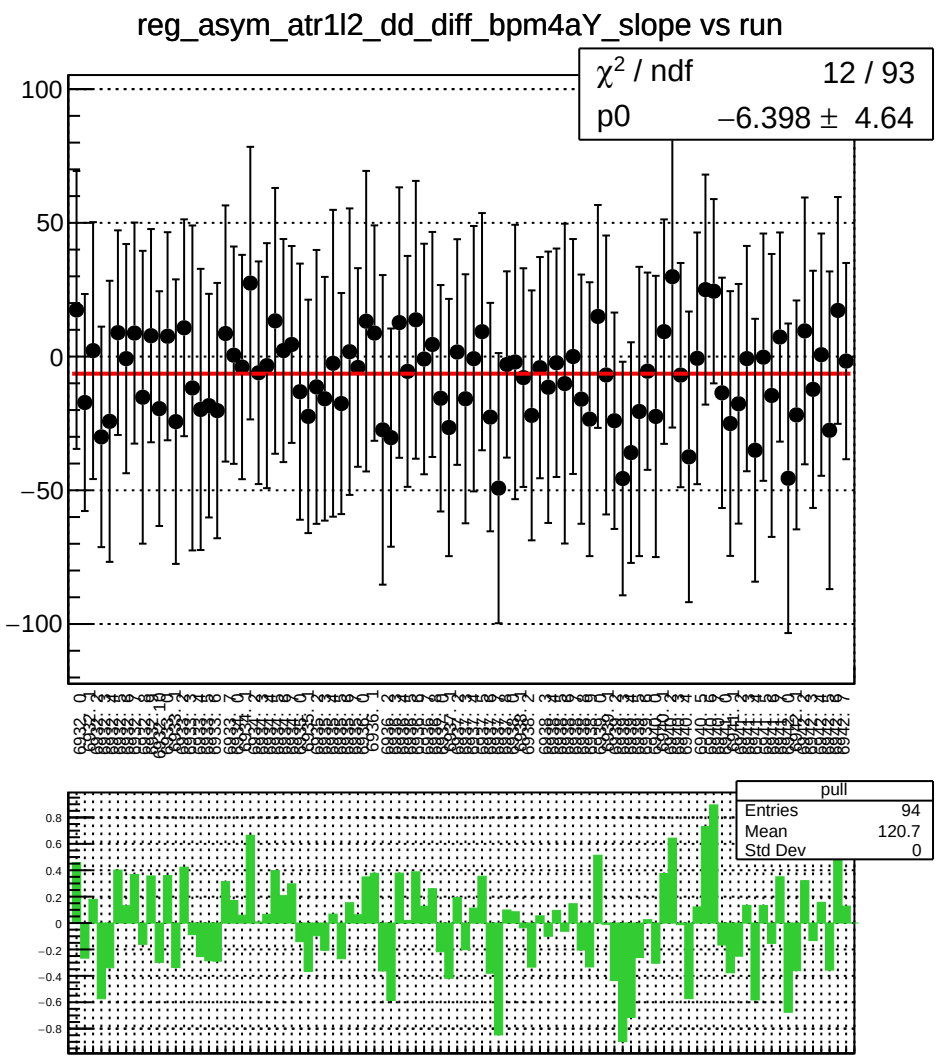

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.858 / 93
p0 63.75 ± 6.022
150
100
50
0
−50
pull
Entries 94
Mean 363
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

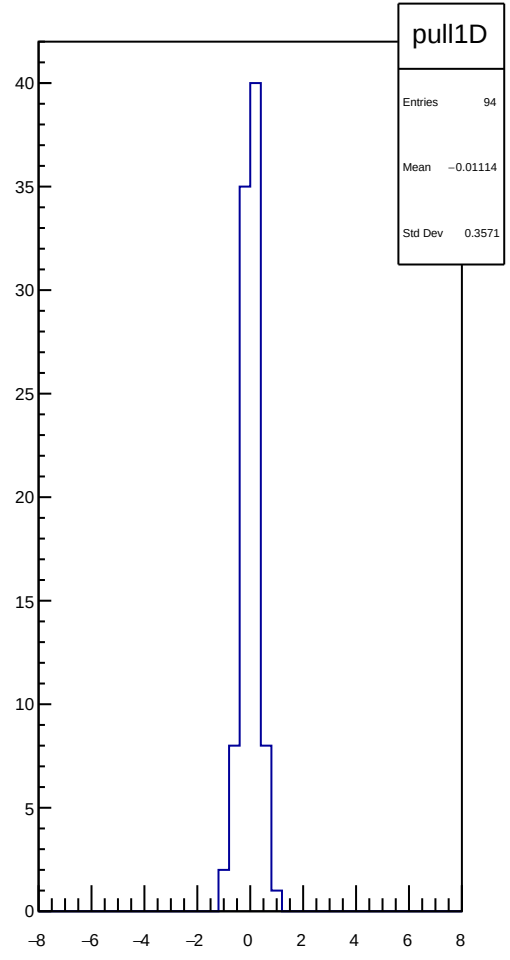

pull1D
Entries 94
Mean 0.00203
Std Dev 0.2701
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

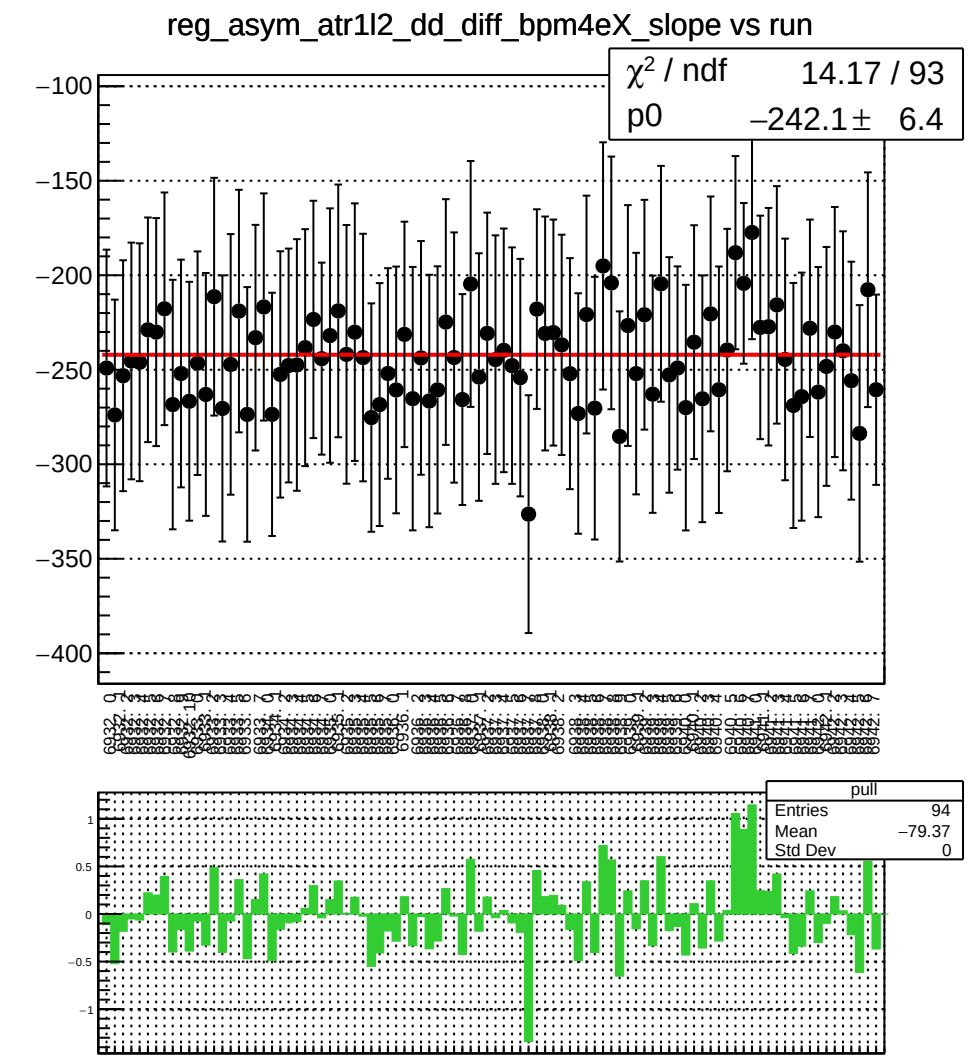

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 27.81 / 93
p0 −153.3 ± 0.2444
−146
−148
−150
−152
−154
−156
−158
−160
pull
Entries 94
Mean −400.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

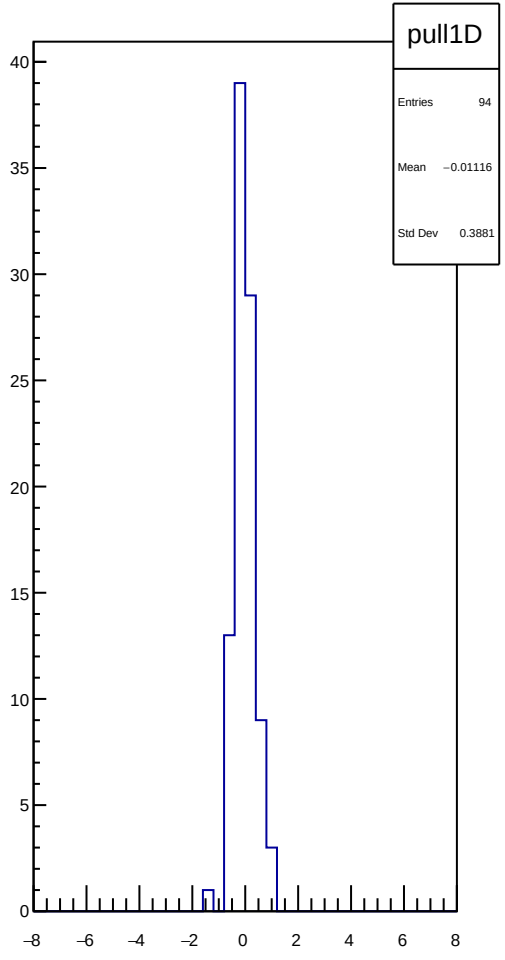

pull1D
Entries 94
Mean −0.01009
Std Dev 0.5438
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

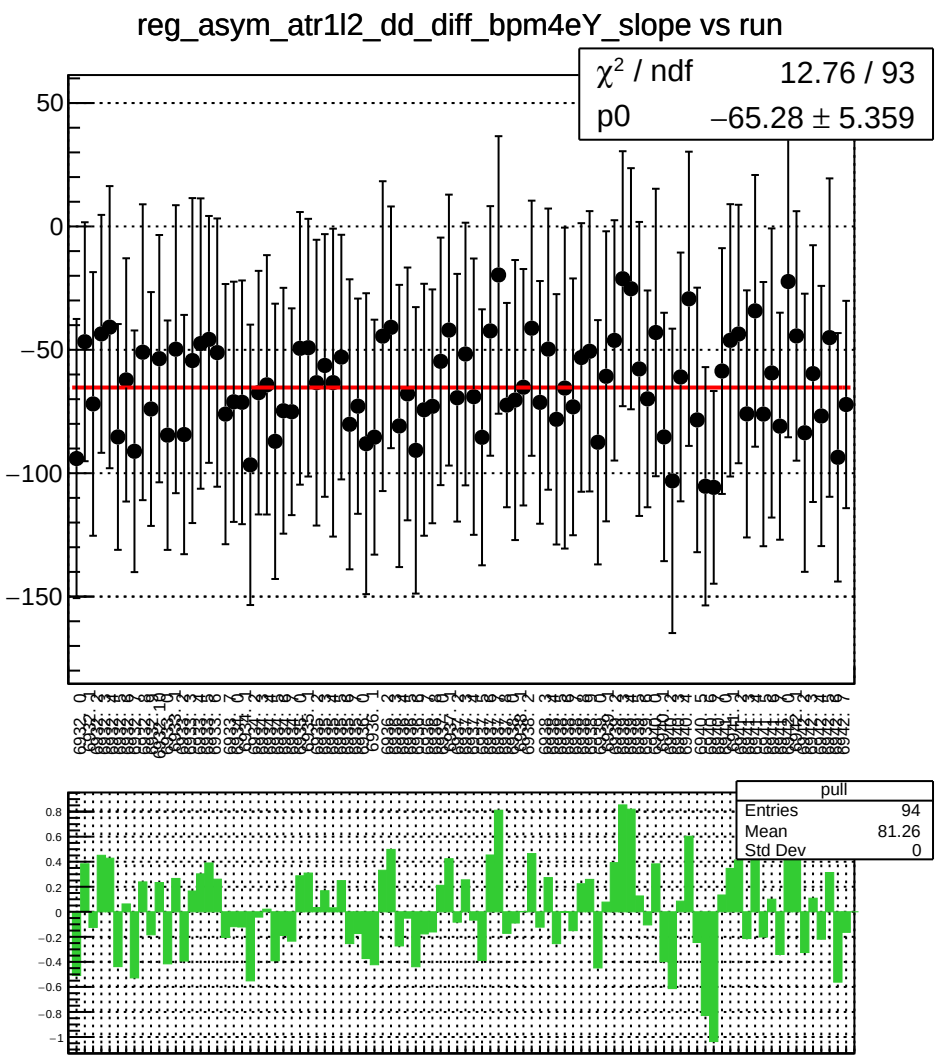

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 14.43 / 93
p0 263.1 ± 6.902
pull
Entries 94
Mean −69.45
Std Dev 0
pull1D
Entries 94
Mean 0.01115
Std Dev 0.3916

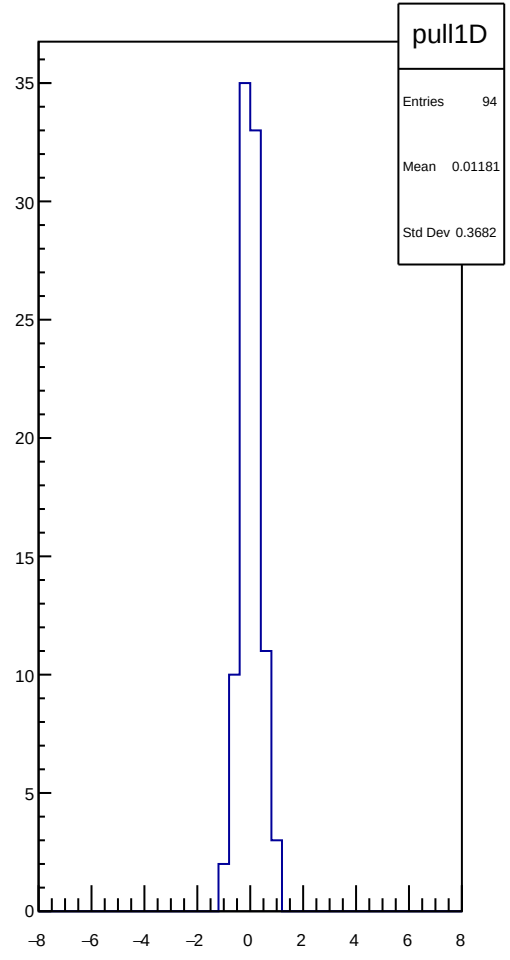

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 12 / 93
p0 −6.398 ± 4.64
100
50
0
−50
−100
pull
Entries 94
Mean 120.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

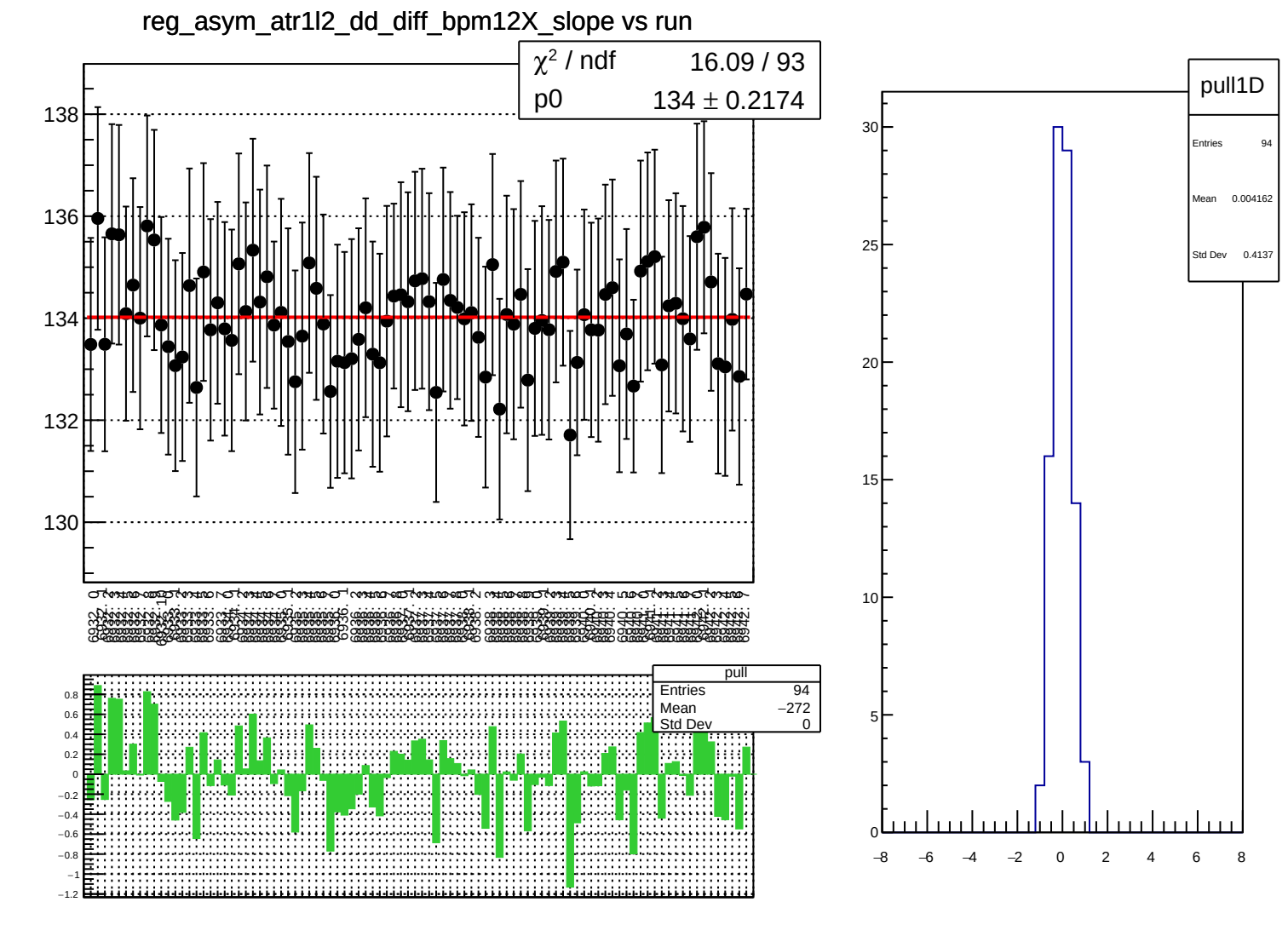

pull1D
Entries 94
Mean −0.01114
Std Dev 0.3571
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

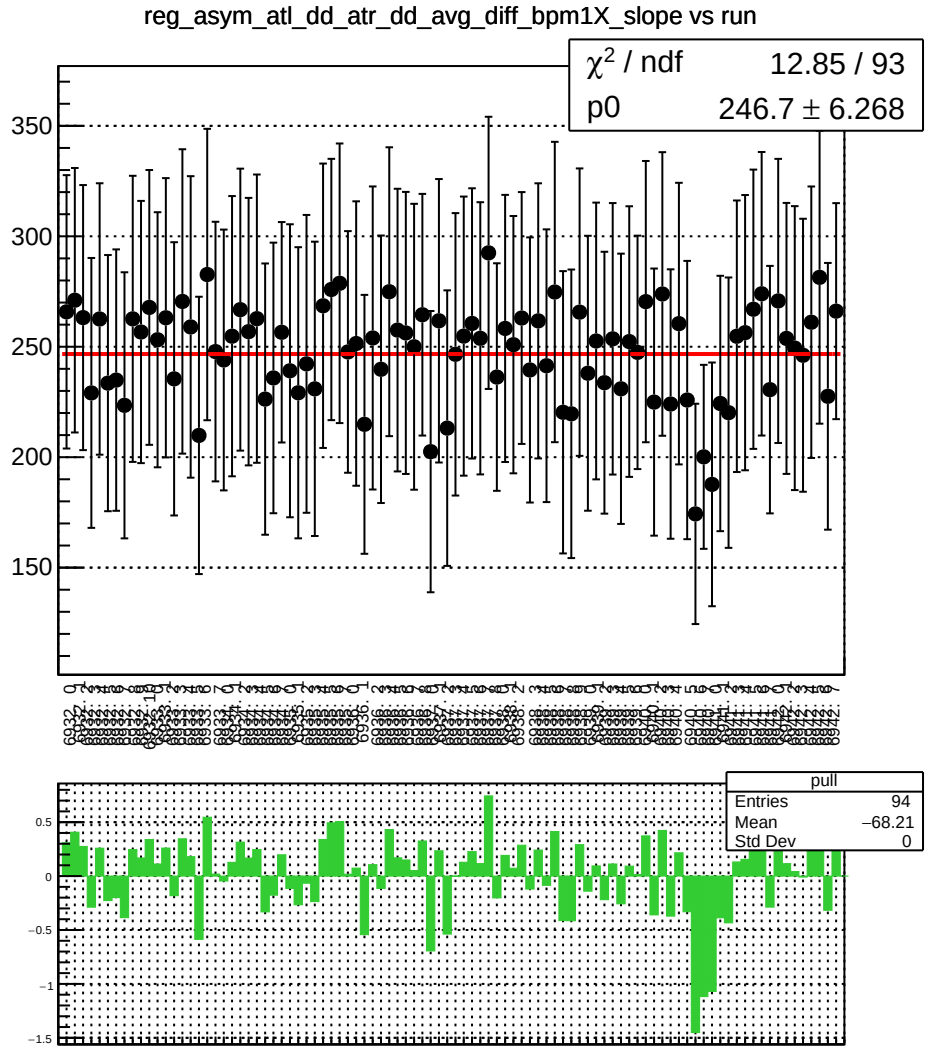

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.17 / 93
p0 −242.1 ± 6.4
−100
−150
−200
−250
−300
−350
−400
pull
Entries 94
Mean −79.37
Std Dev 0
1
0.5
0
−0.5
−1

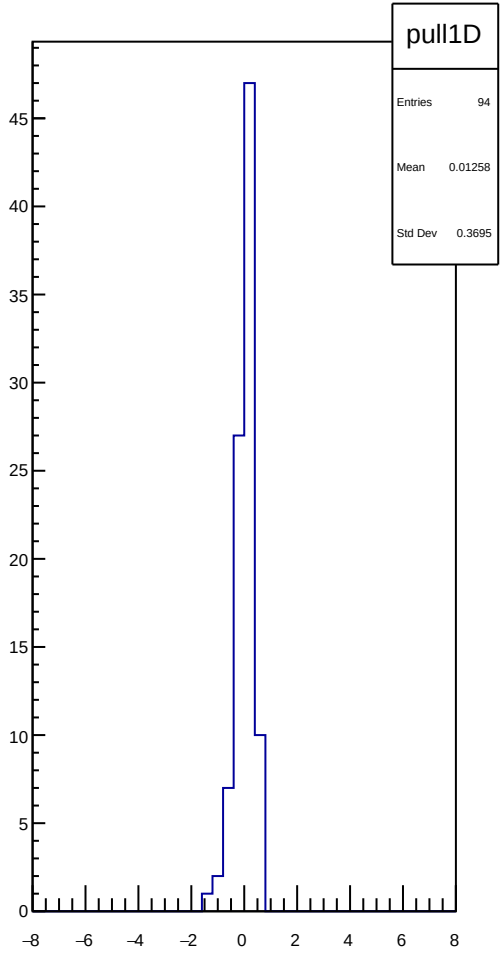

pull1D
Entries 94
Mean −0.01116
Std Dev 0.3881
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

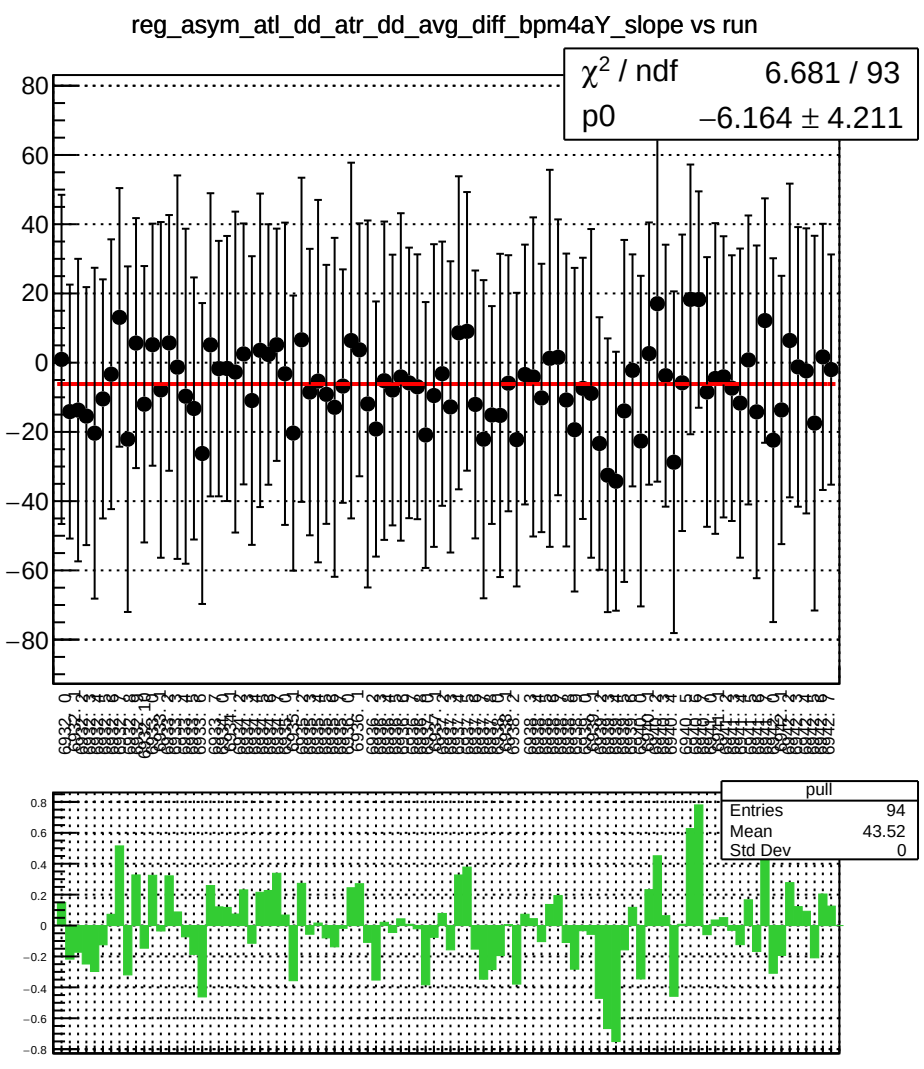

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.76 / 93
p0 −65.28 ± 5.359
50
0
−50
−100
−150
pull
Entries 94
Mean 81.26
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

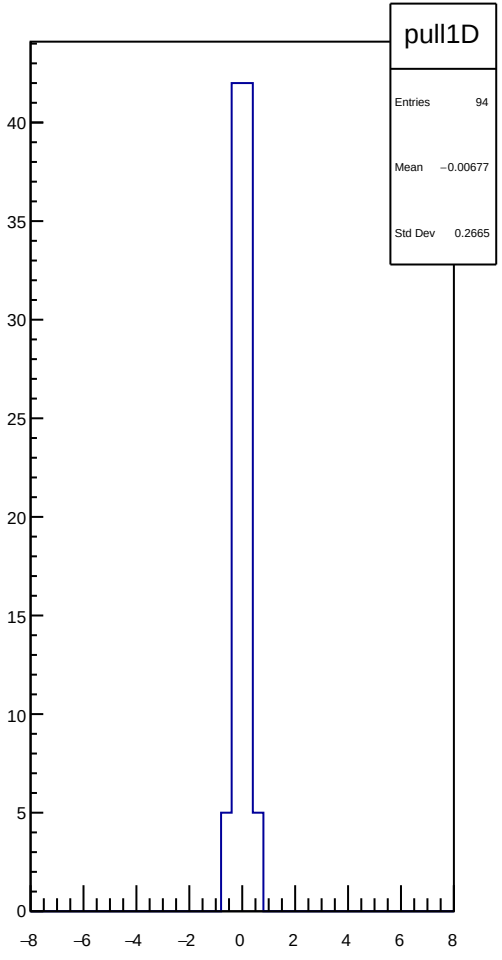

pull1D
Entries 94
Mean 0.01181
Std Dev 0.3682
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

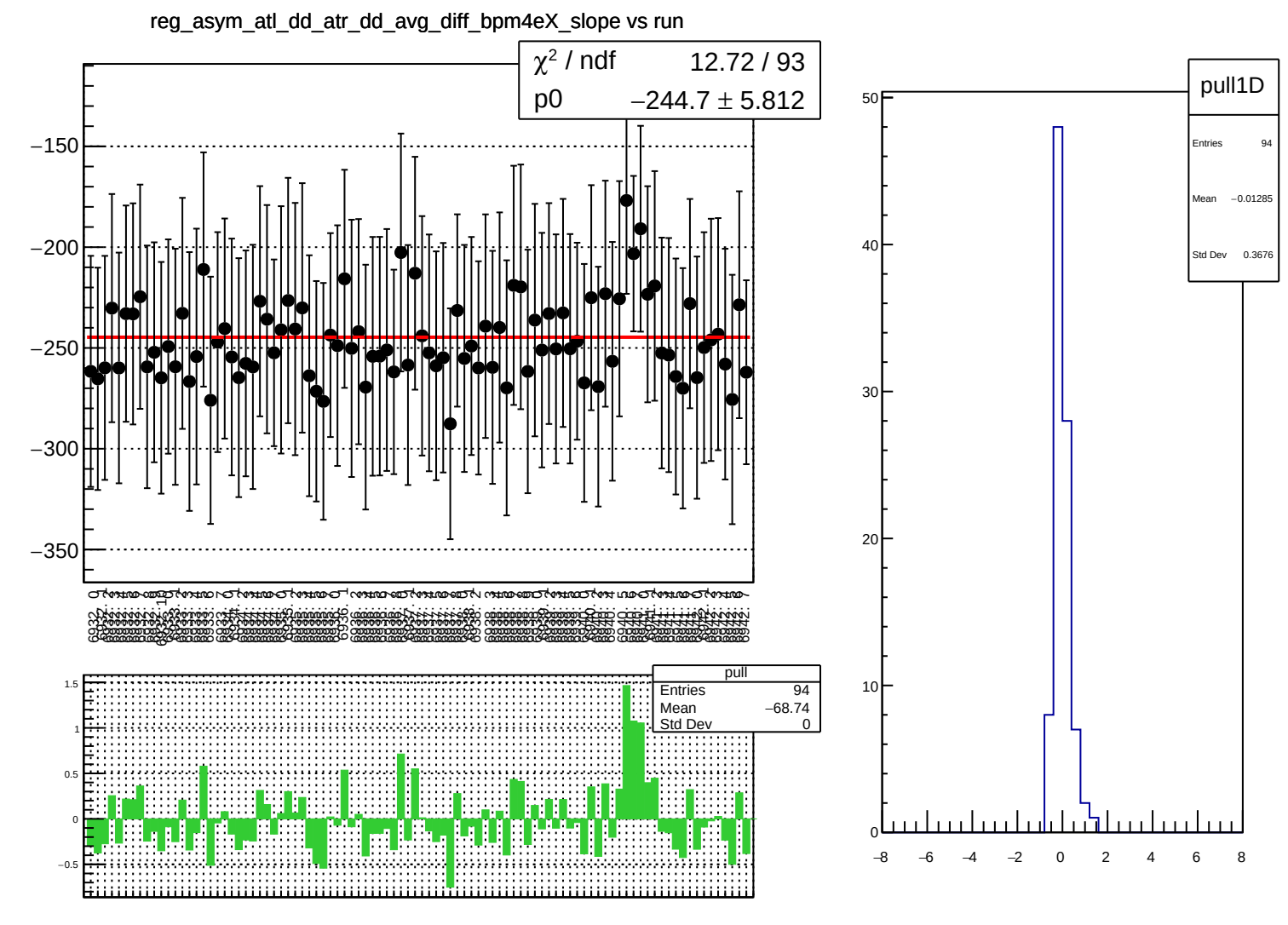

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.09 / 93
p0 134 ± 0.2174
138
136
134
132
130
pull
Entries 94
Mean −272
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 94
Mean 0.004162
Std Dev 0.4137
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

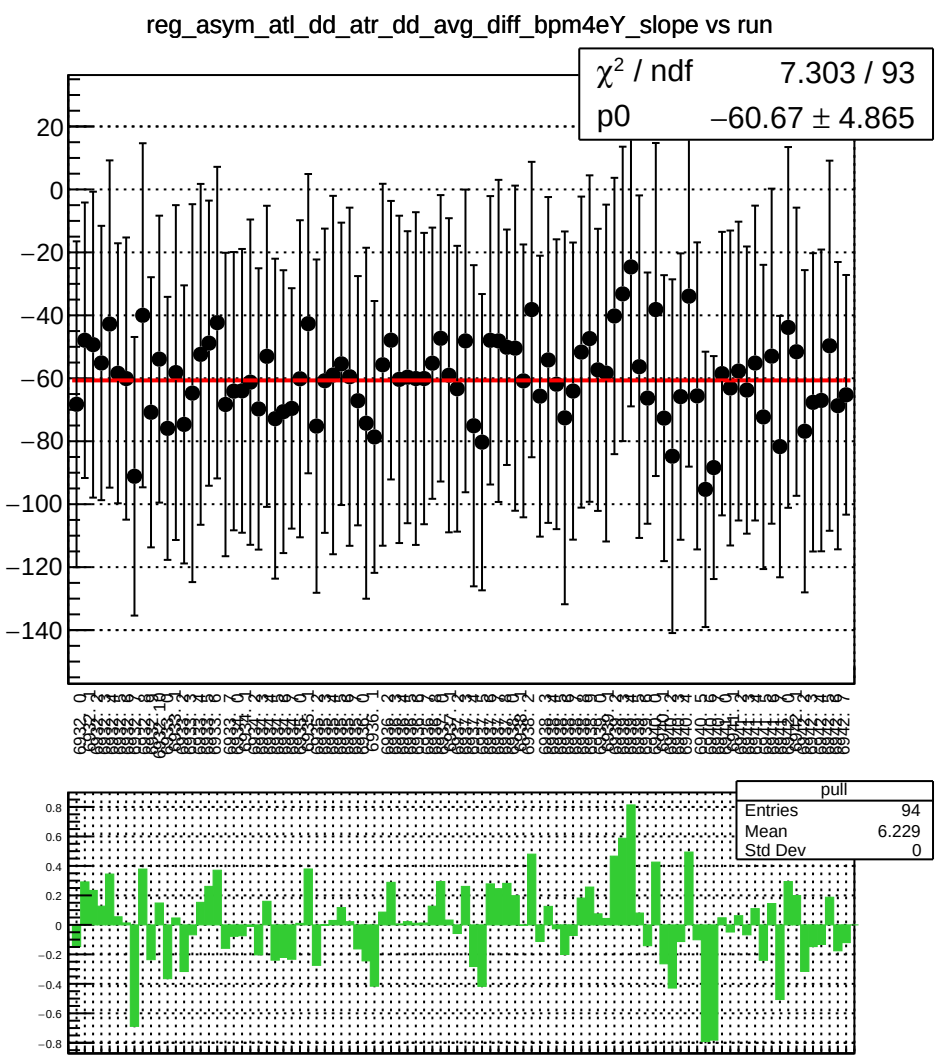

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 12.85 / 93
p0 246.7 ± 6.268
350
300
250
200
150
pull
Entries 94
Mean −68.21
Std Dev 0
0.5
0
−0.5
−1
−1.5

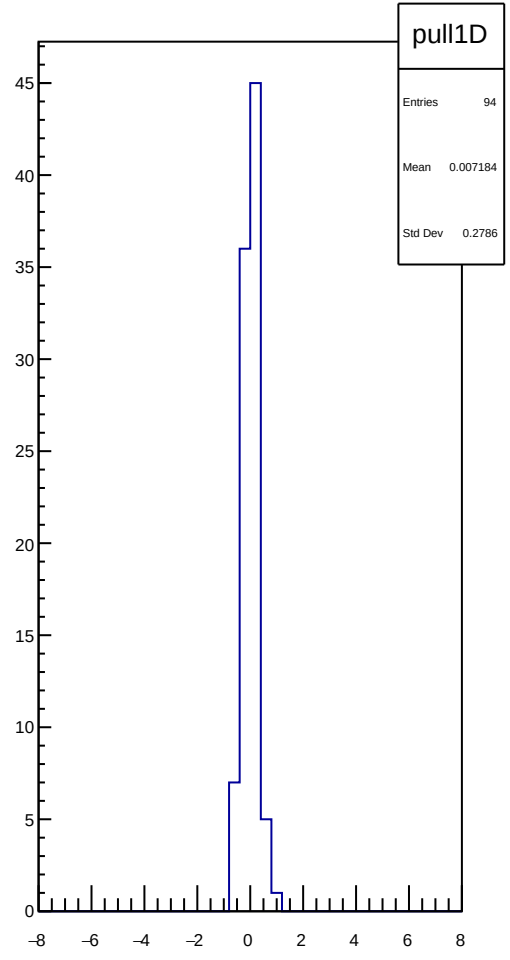

pull1D
Entries 94
Mean 0.01258
Std Dev 0.3695
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

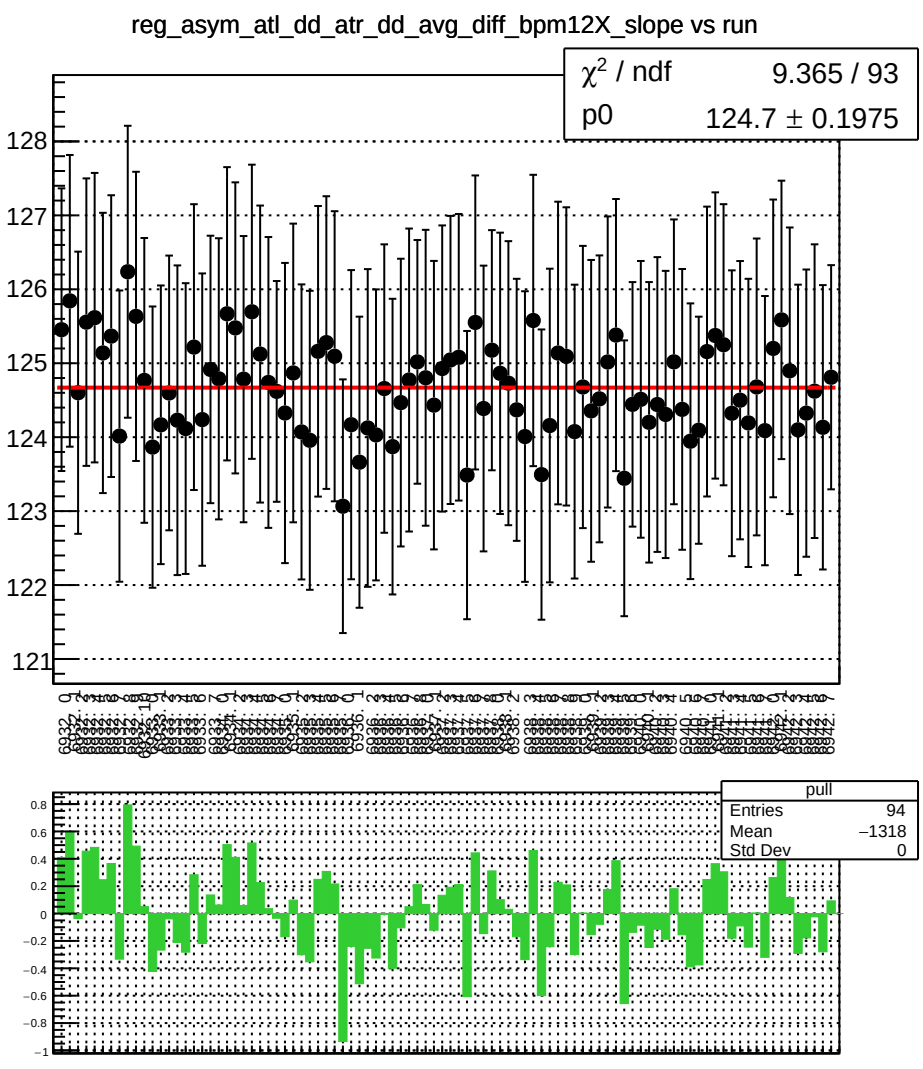

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.681 / 93
p0 −6.164 ± 4.211
pull
Entries 94
Mean 43.52
Std Dev 0

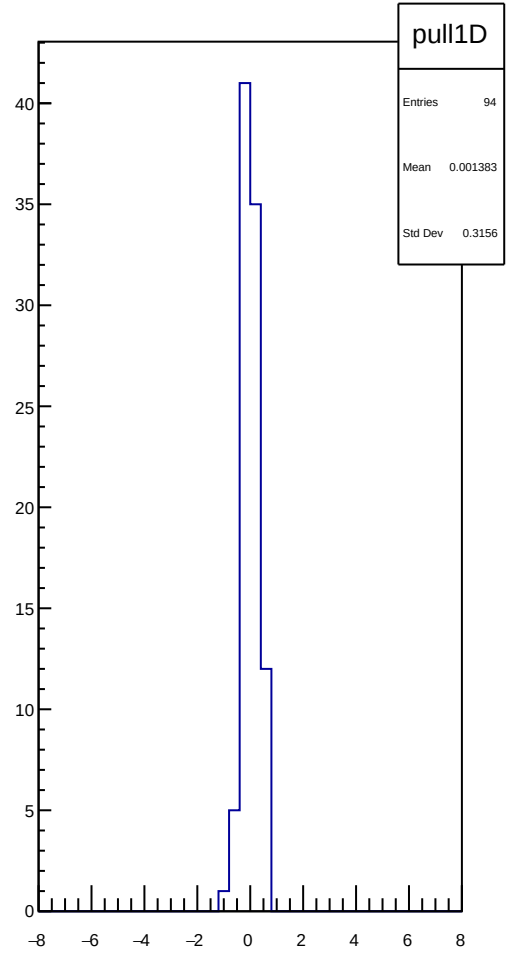

pull1D
Entries 94
Mean −0.00677
Std Dev 0.2665

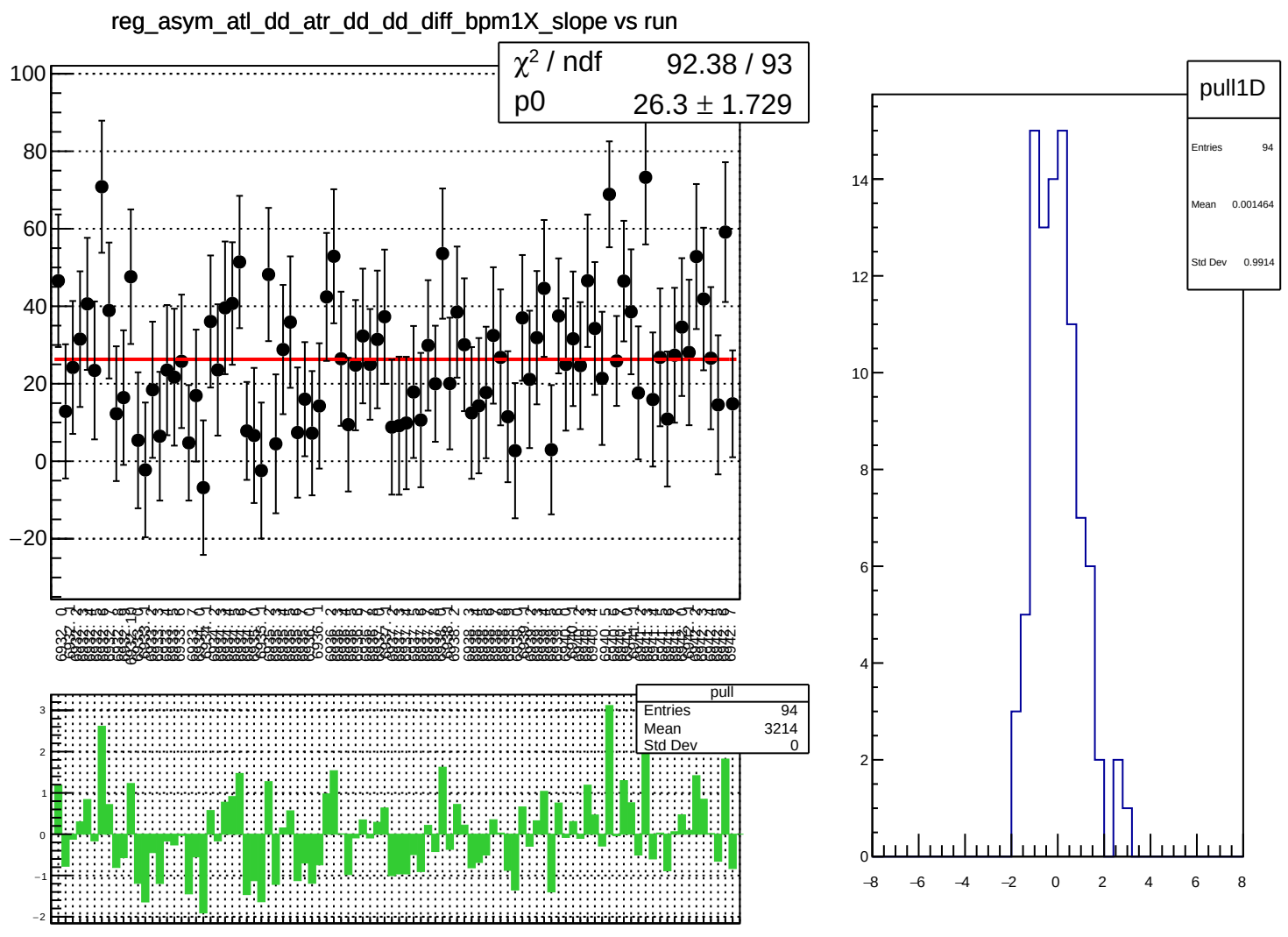

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.72 / 93
p0 −244.7 ± 5.812
−150
−200
−250
−300
−350
pull
Entries 94
Mean −68.74
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01285
Std Dev 0.3676
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

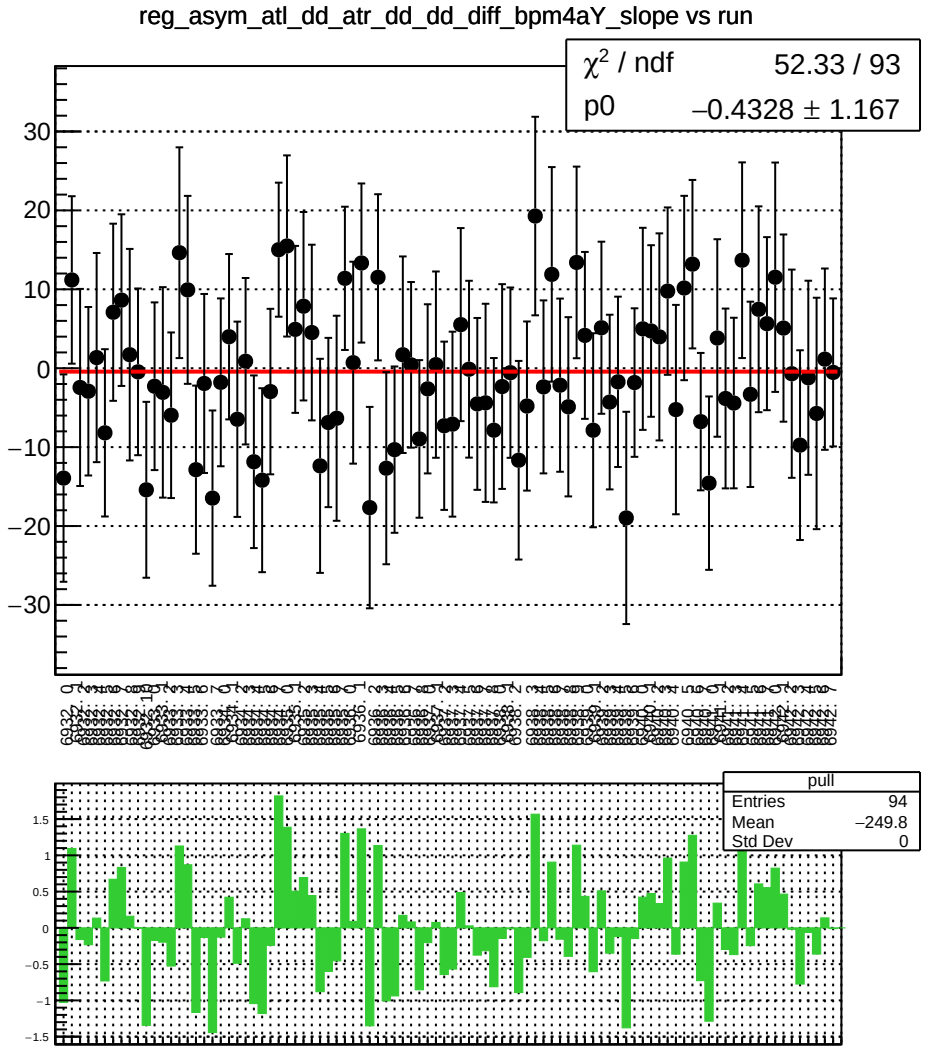

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.303 / 93
p0 −60.67 ± 4.865
pull
Entries 94
Mean 6.229
Std Dev 0

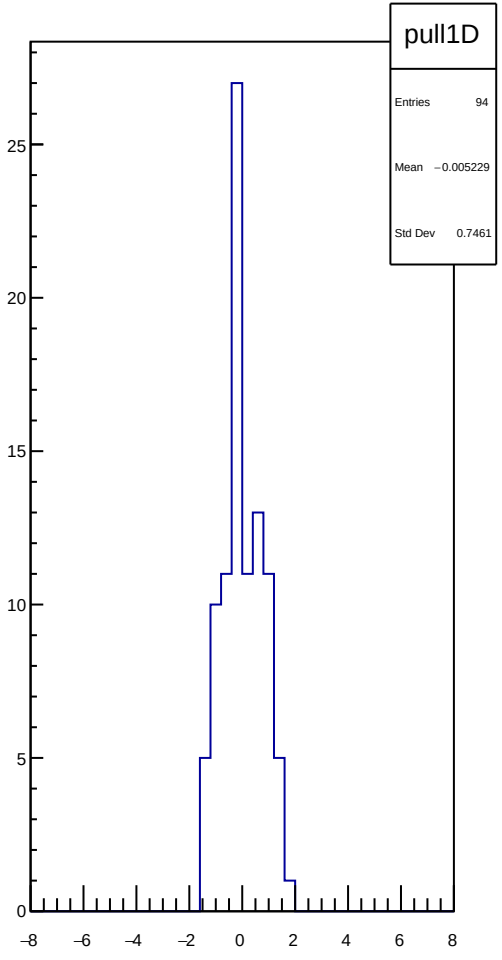

pull1D
Entries 94
Mean 0.007184
Std Dev 0.2786

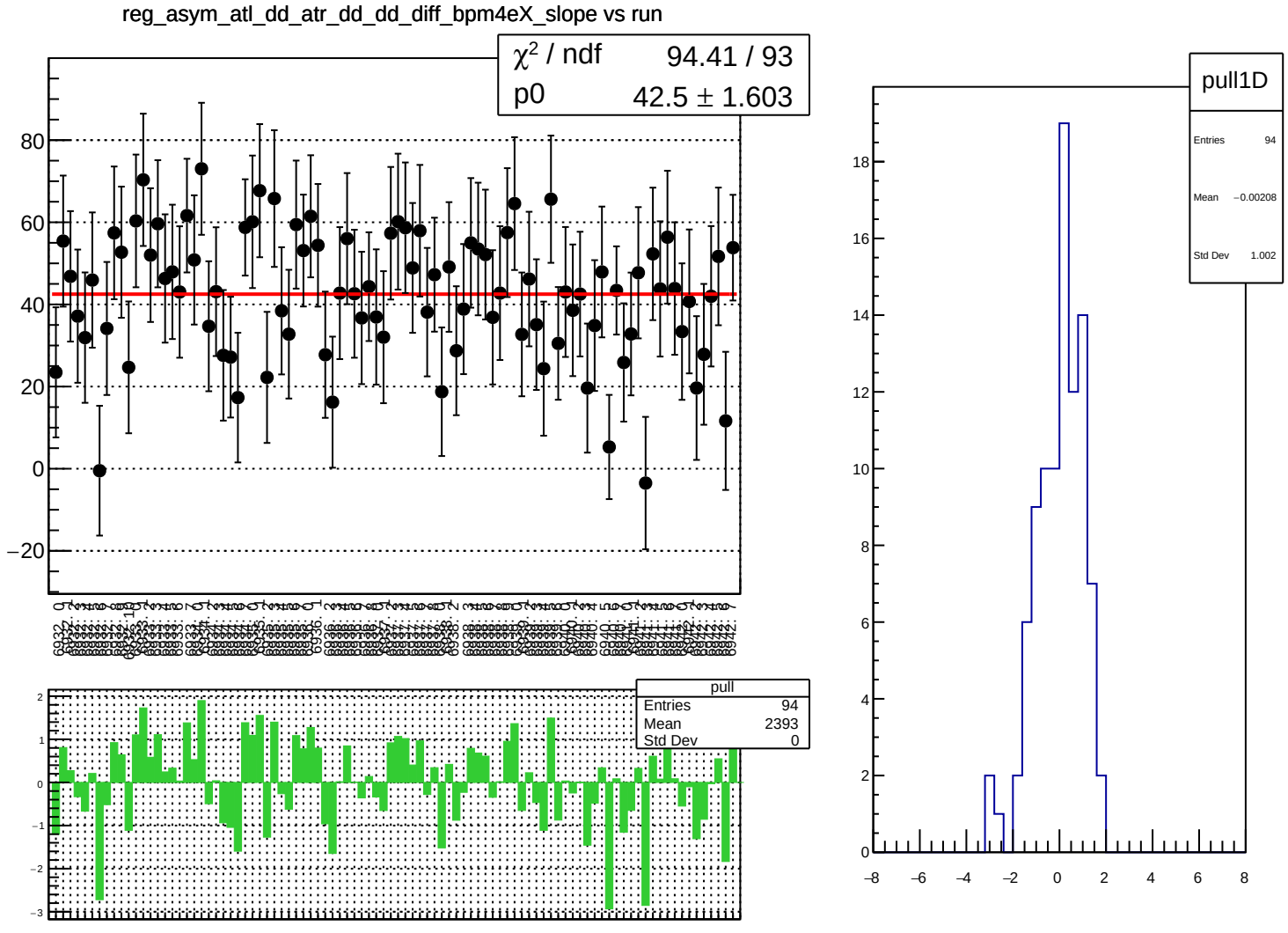

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 9.365 / 93
p0 124.7 ± 0.1975
pull
Entries 94
Mean −1318
Std Dev 0

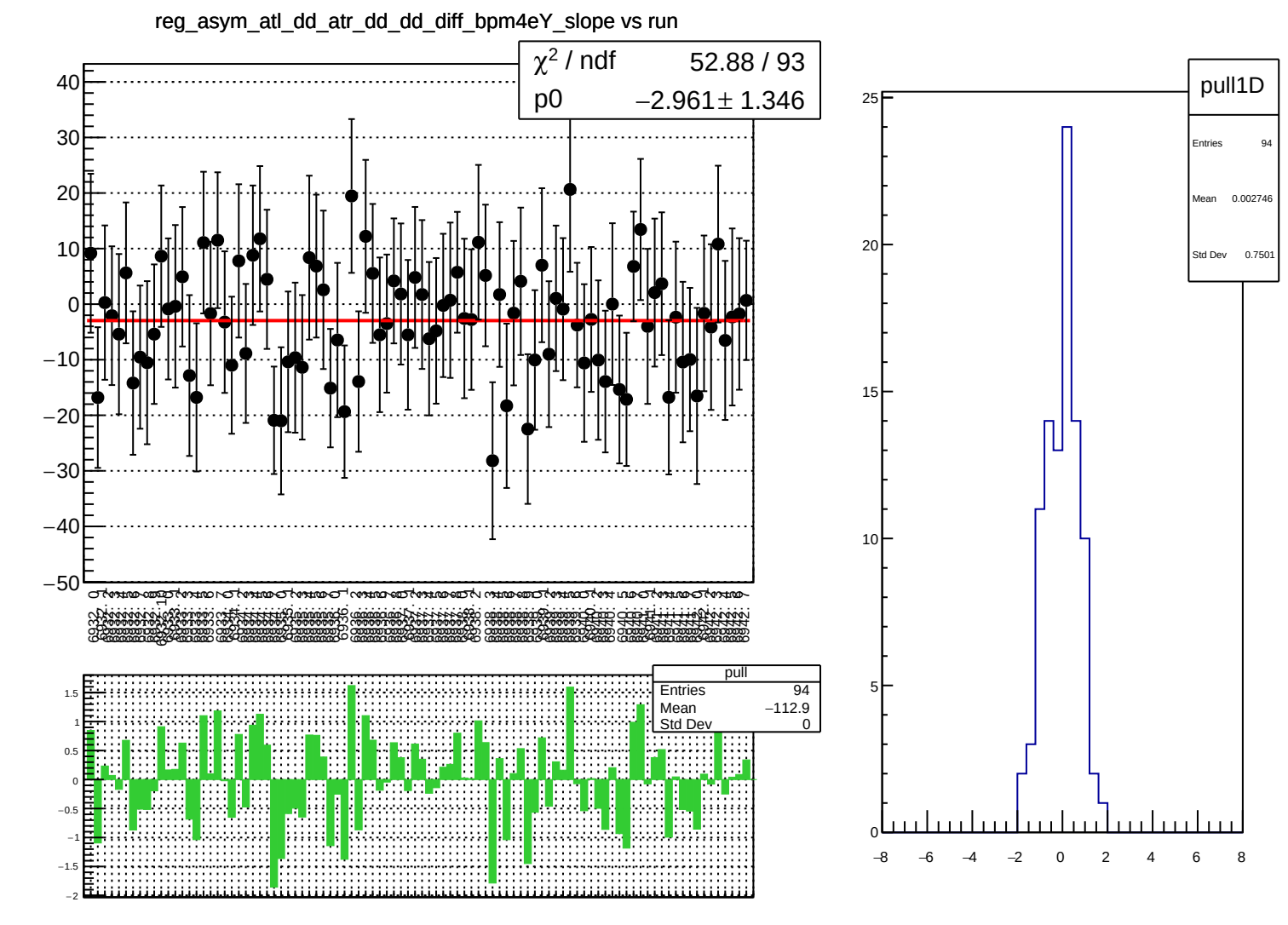

pull1D
Entries 94
Mean 0.001383
Std Dev 0.3156

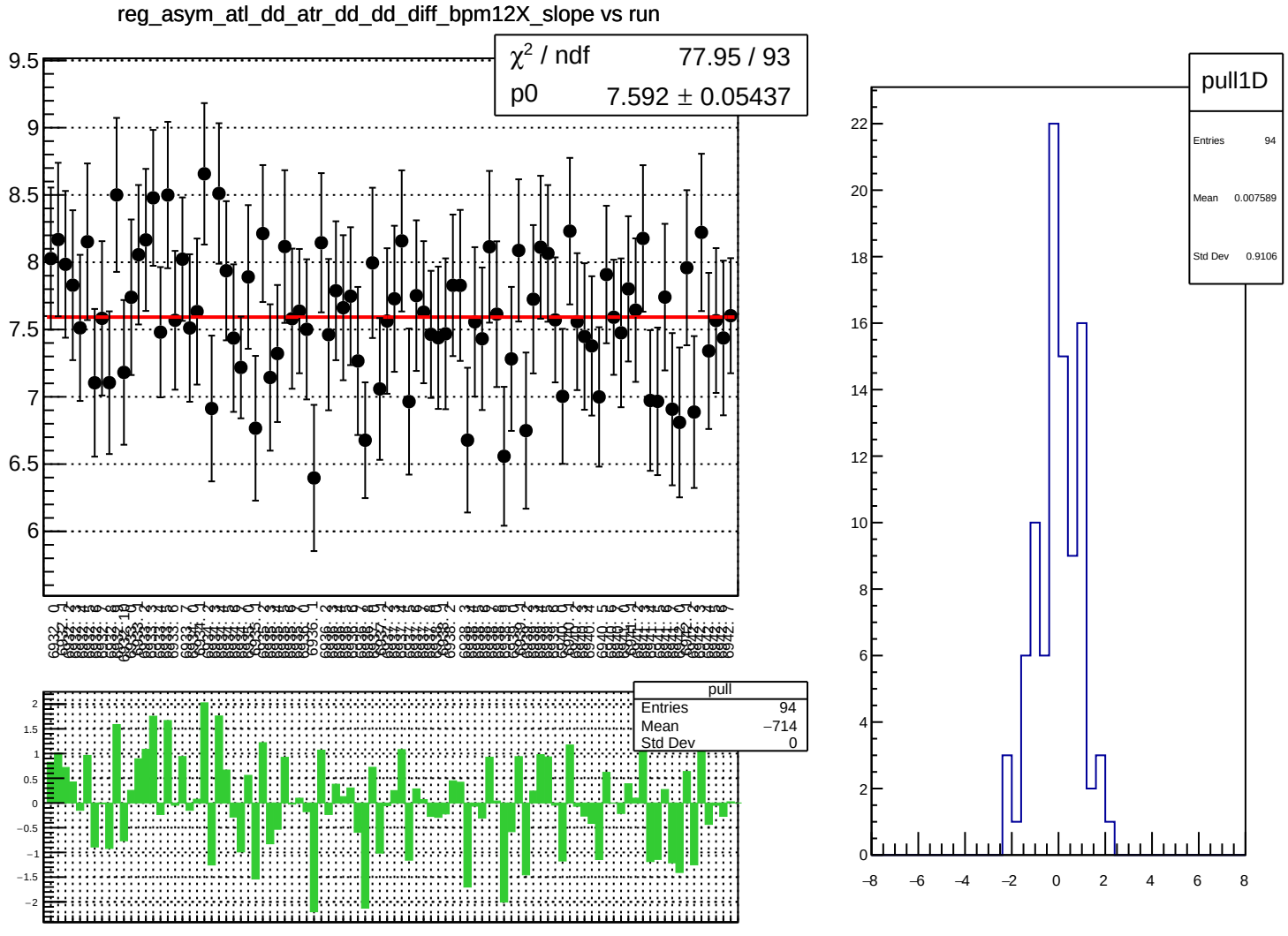

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 92.38 / 93
p0 26.3 ± 1.729
pull
Entries 94
Mean 3214
Std Dev 0
pull1D
Entries 94
Mean 0.001464
Std Dev 0.9914

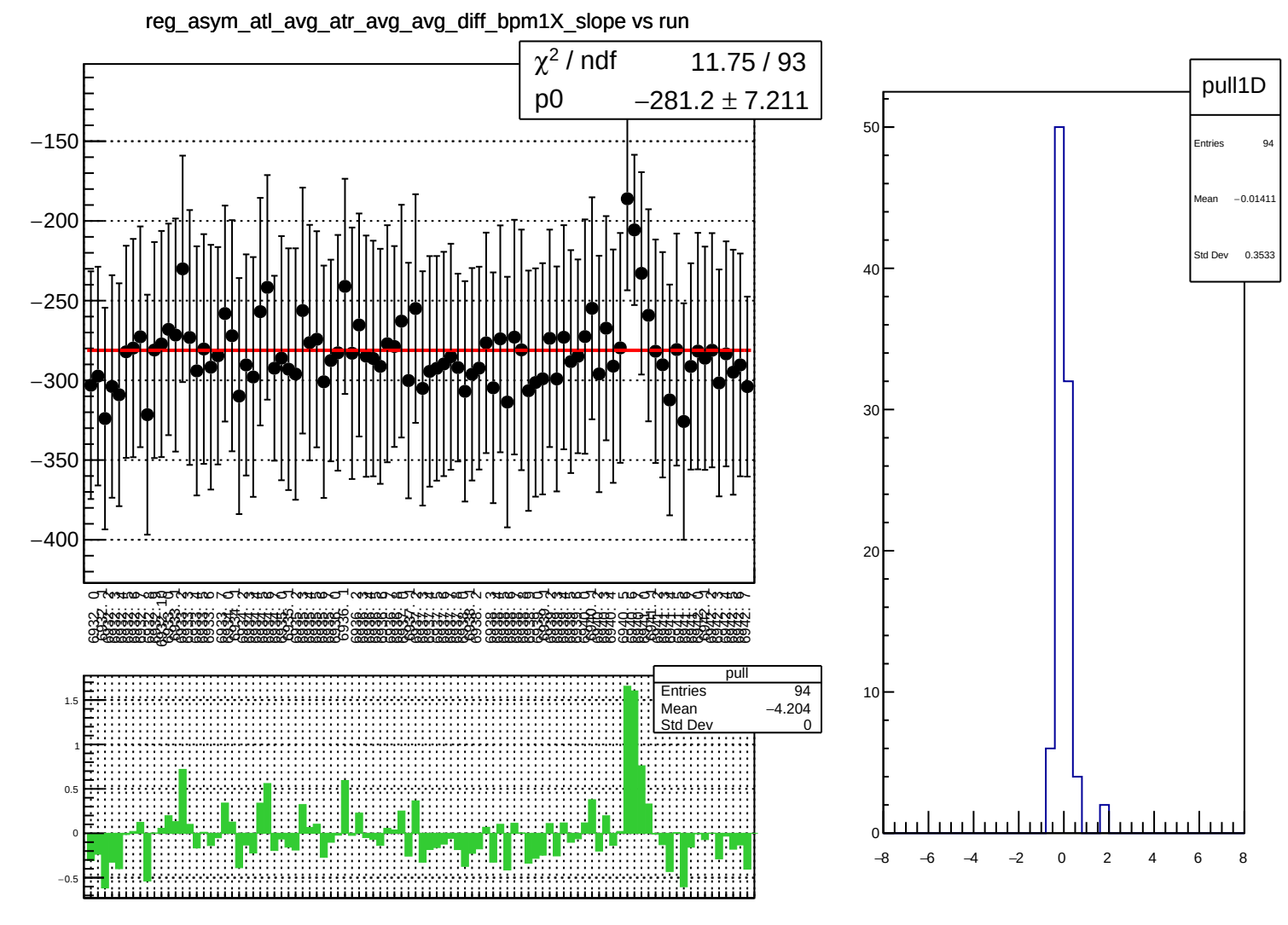

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.33 / 93
p0 −0.4328 ± 1.167
pull
Entries 94
Mean −249.8
Std Dev 0

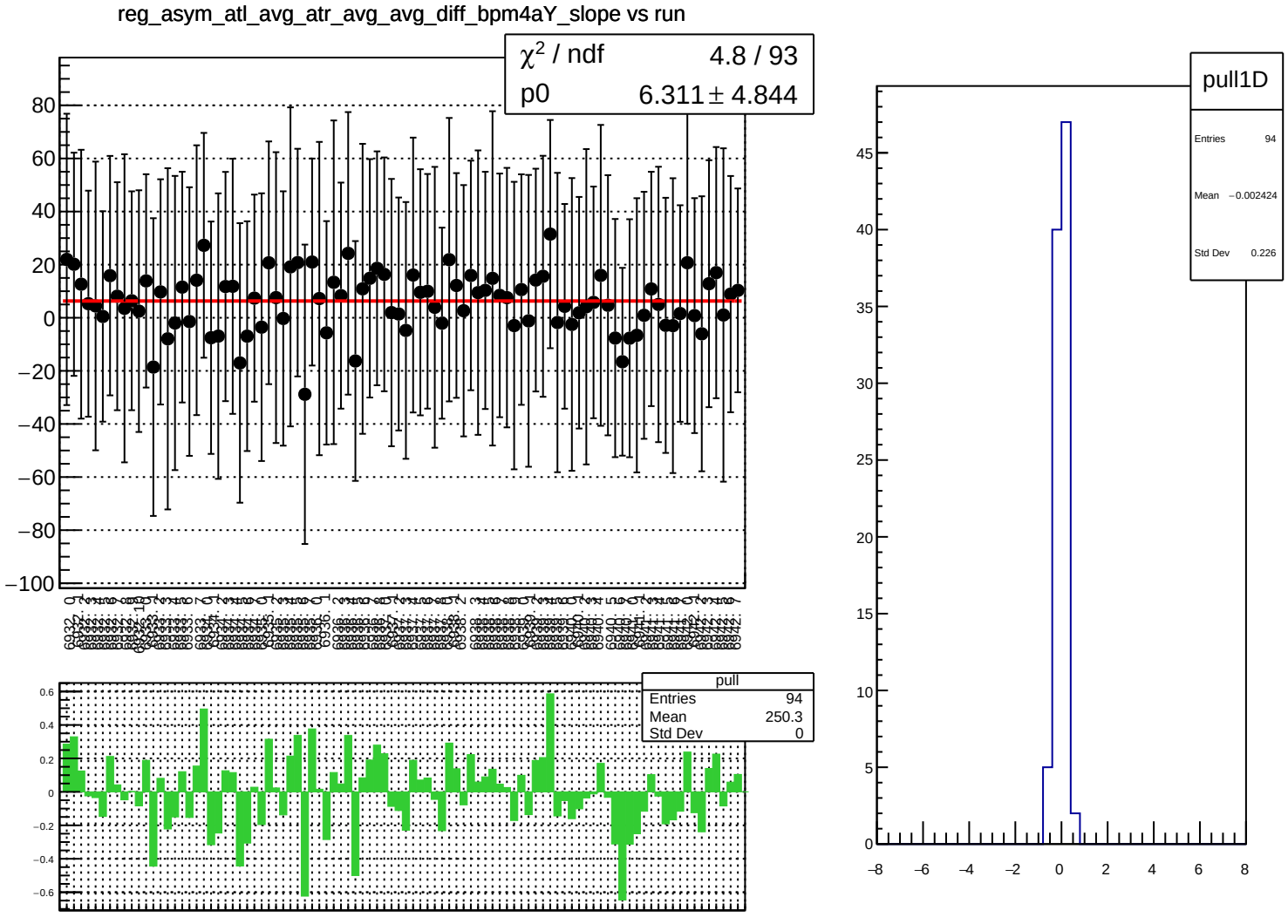

pull1D
Entries 94
Mean −0.005229
Std Dev 0.7461

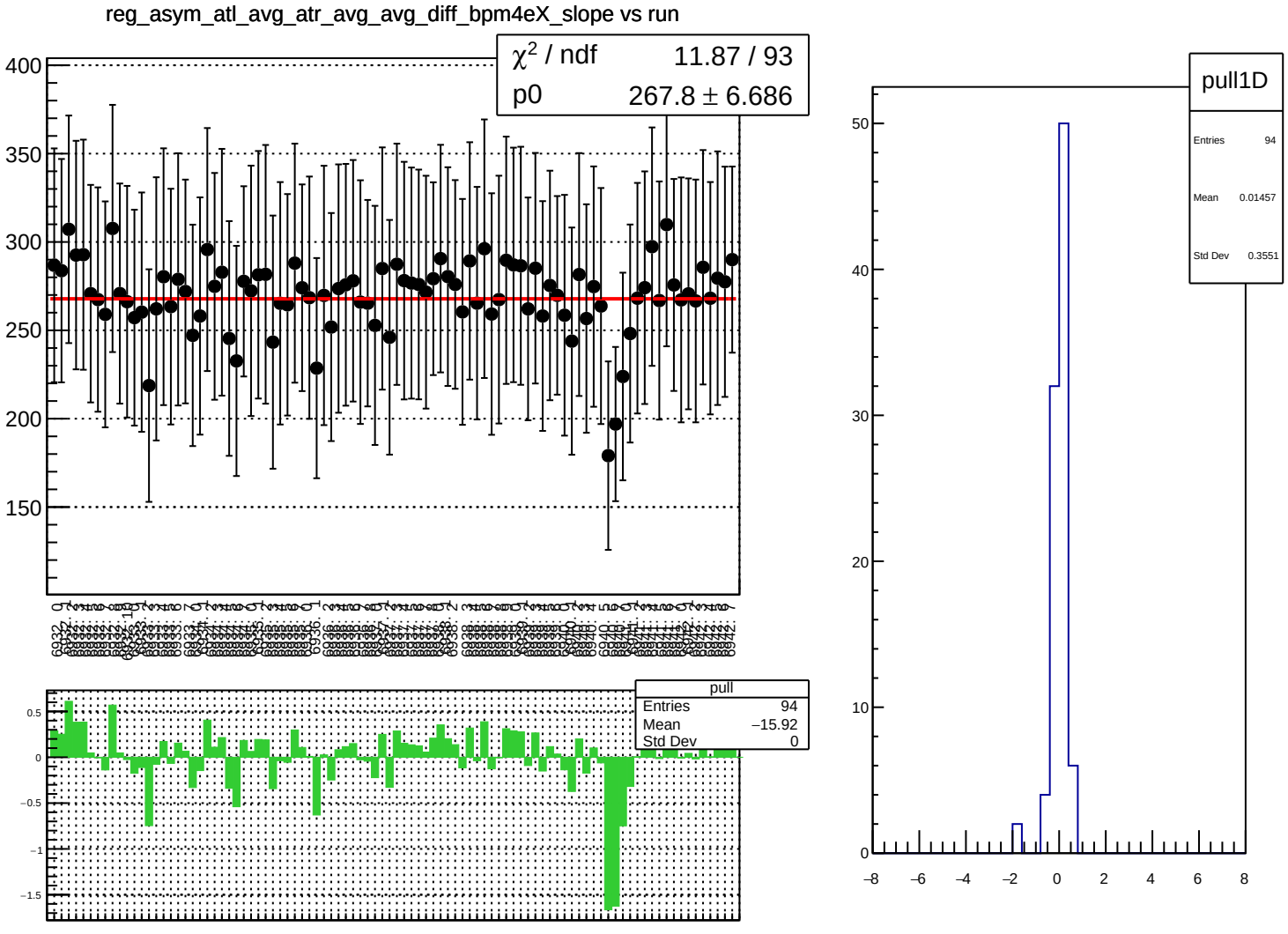

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.41 / 93
p0 42.5 ± 1.603
pull
Entries 94
Mean 2393
Std Dev 0
pull1D
Entries 94
Mean −0.00208
Std Dev 1.002

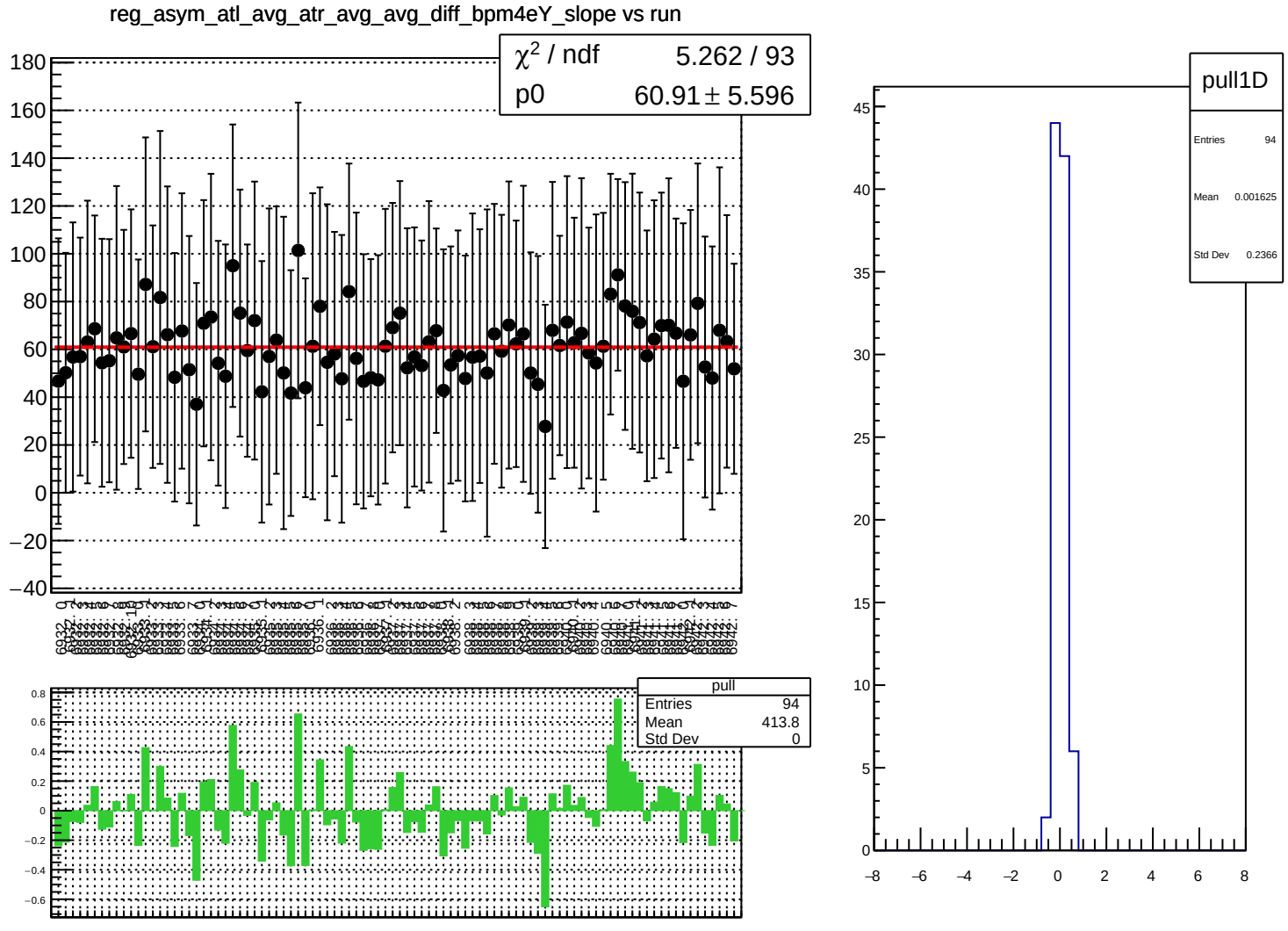

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.88 / 93
p0 −2.961± 1.346
pull
Entries 94
Mean −112.9
Std Dev 0
pull1D
Entries 94
Mean 0.002746
Std Dev 0.7501

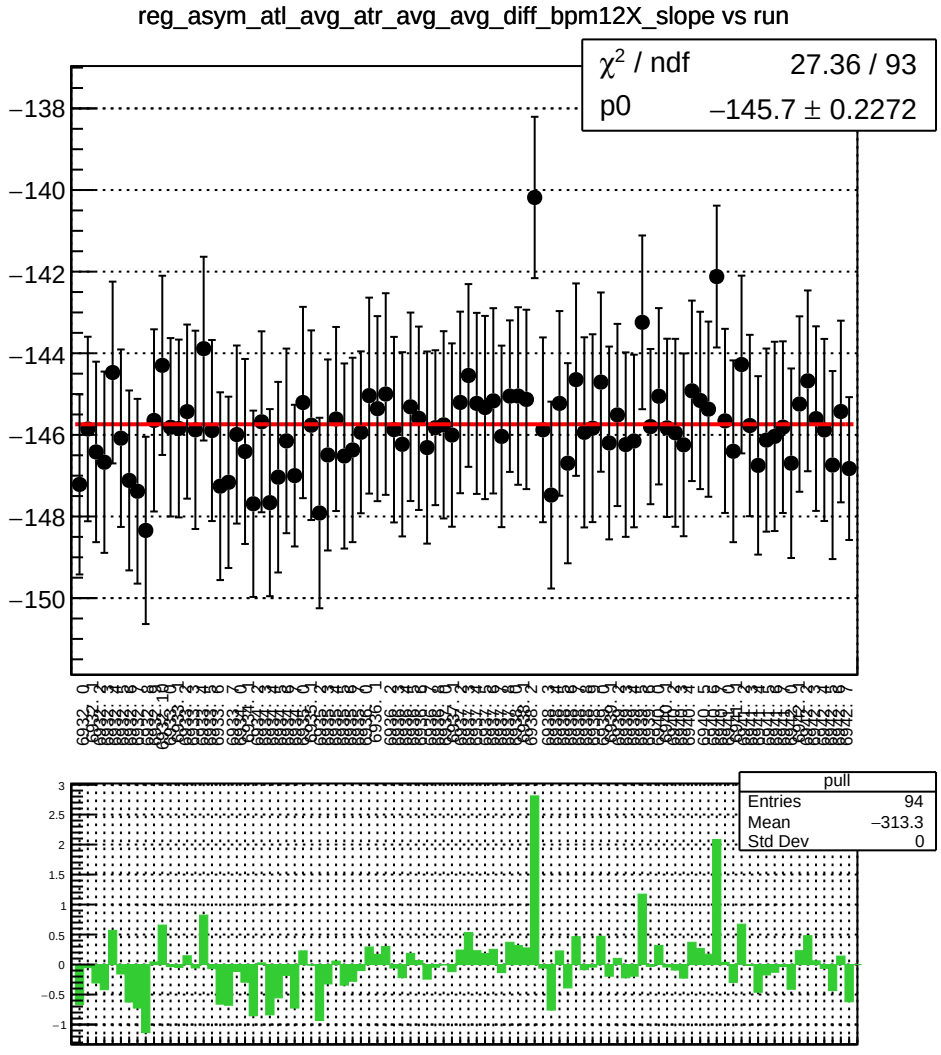

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 77.95 / 93
p0 7.592 ± 0.05437
pull
Entries 94
Mean −714
Std Dev 0
pull1D
Entries 94
Mean 0.007589
Std Dev 0.9106

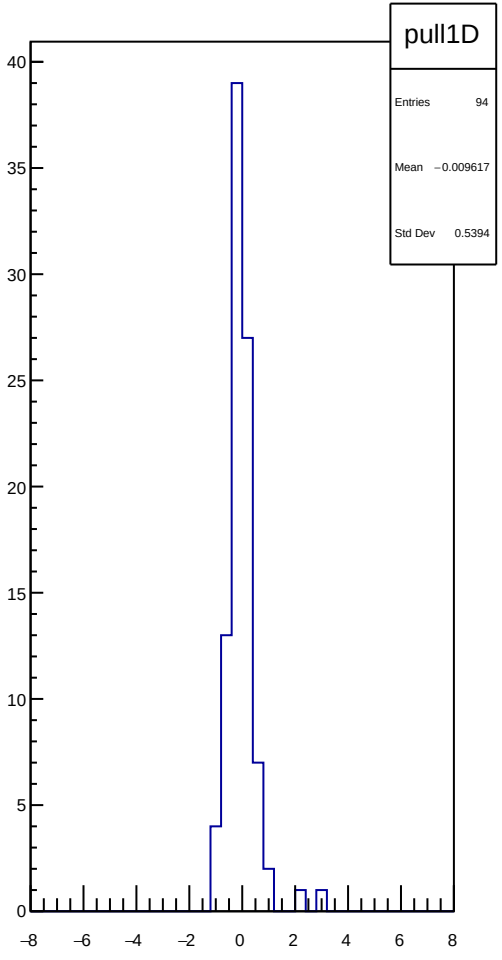

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.75 / 93
p0 −281.2 ± 7.211
−150
−200
−250
−300
−350
−400
pull
Entries 94
Mean −4.204
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01411
Std Dev 0.3533
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

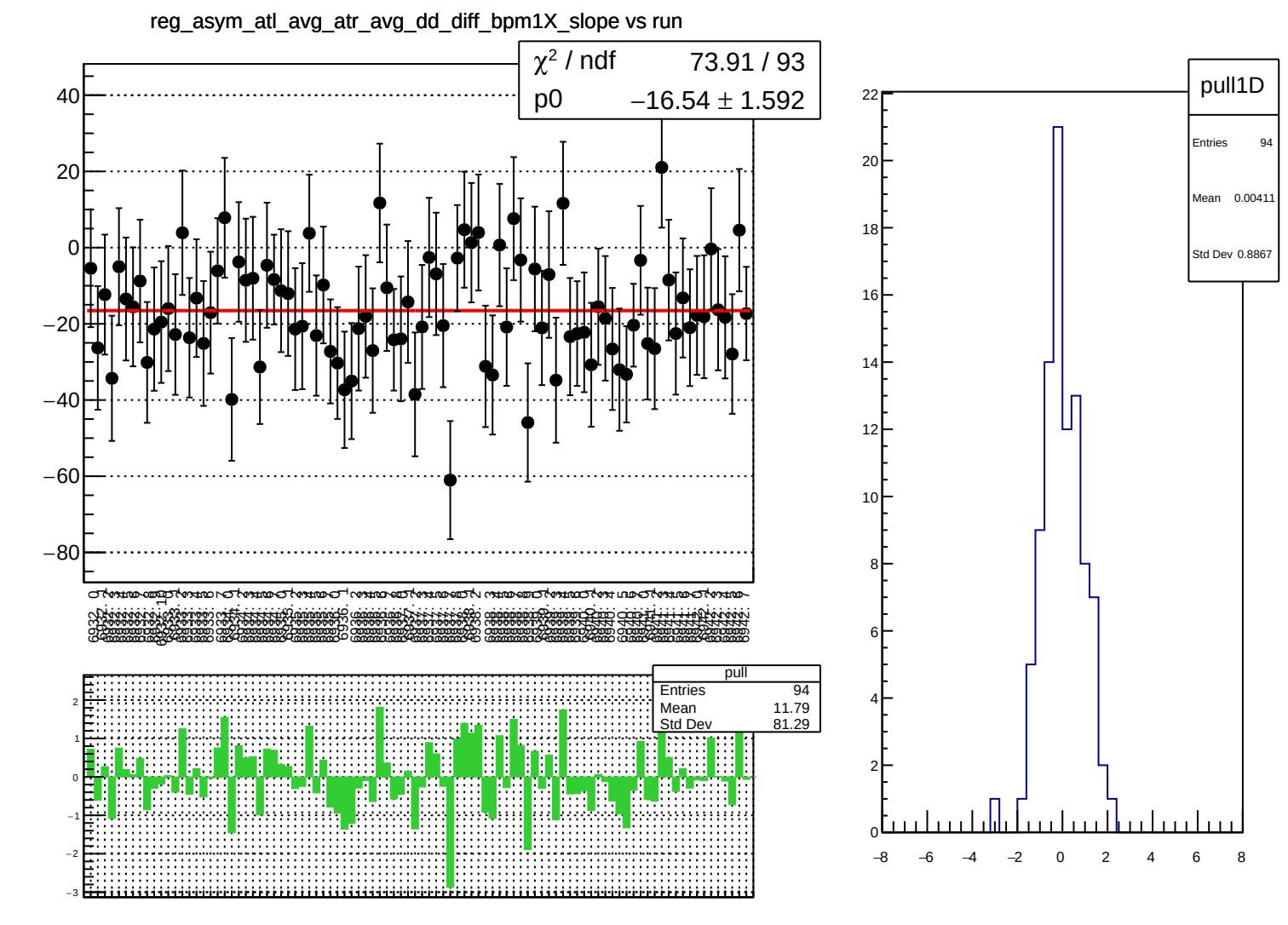

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.8 / 93
p0 6.311 ± 4.844
pull
Entries 94
Mean 250.3
Std Dev 0
pull1D
Entries 94
Mean −0.002424
Std Dev 0.226

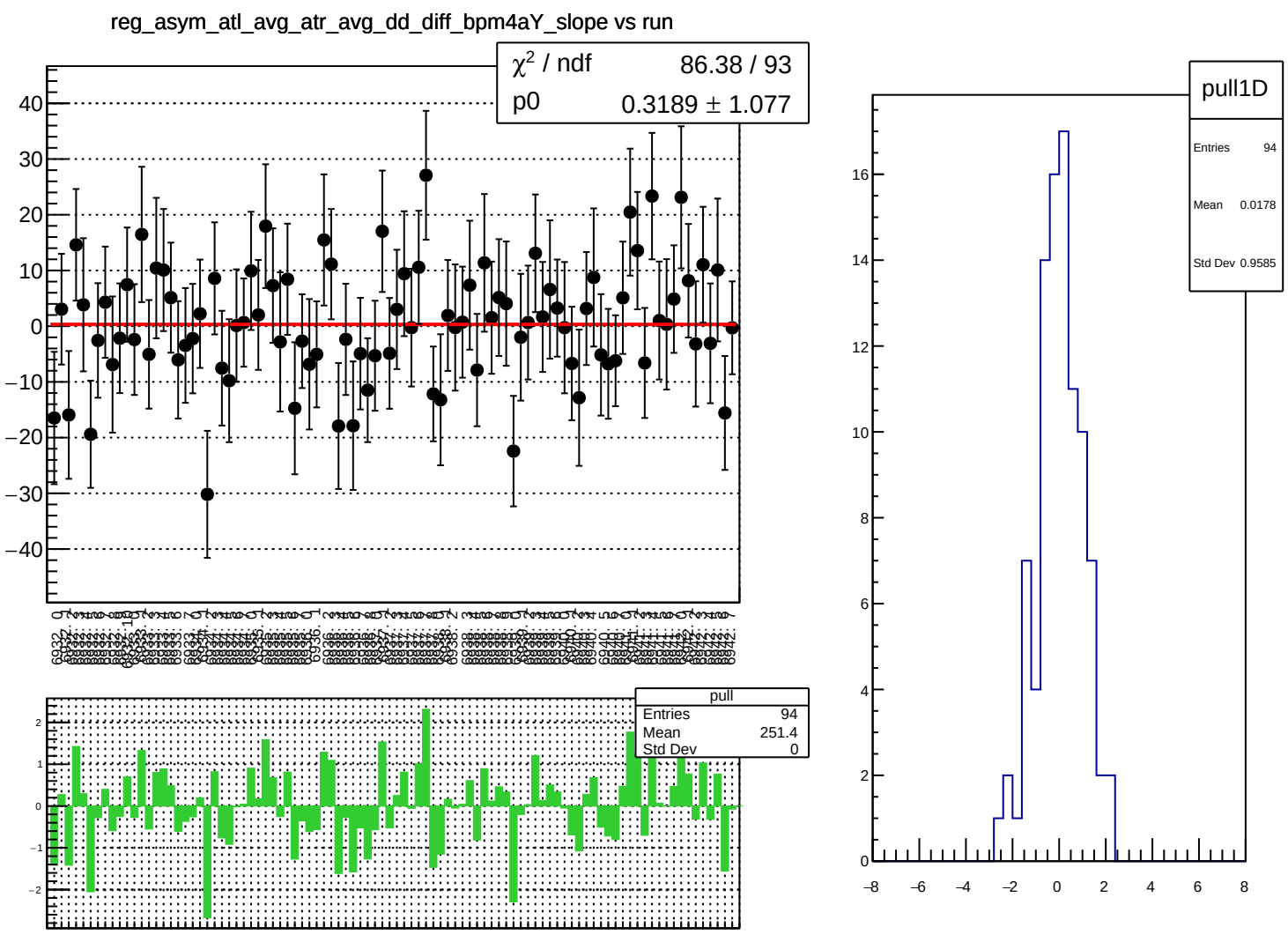

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.87 / 93
p0 267.8 ± 6.686
400
350
300
250
200
150
pull
Entries 94
Mean −15.92
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01457
Std Dev 0.3551
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

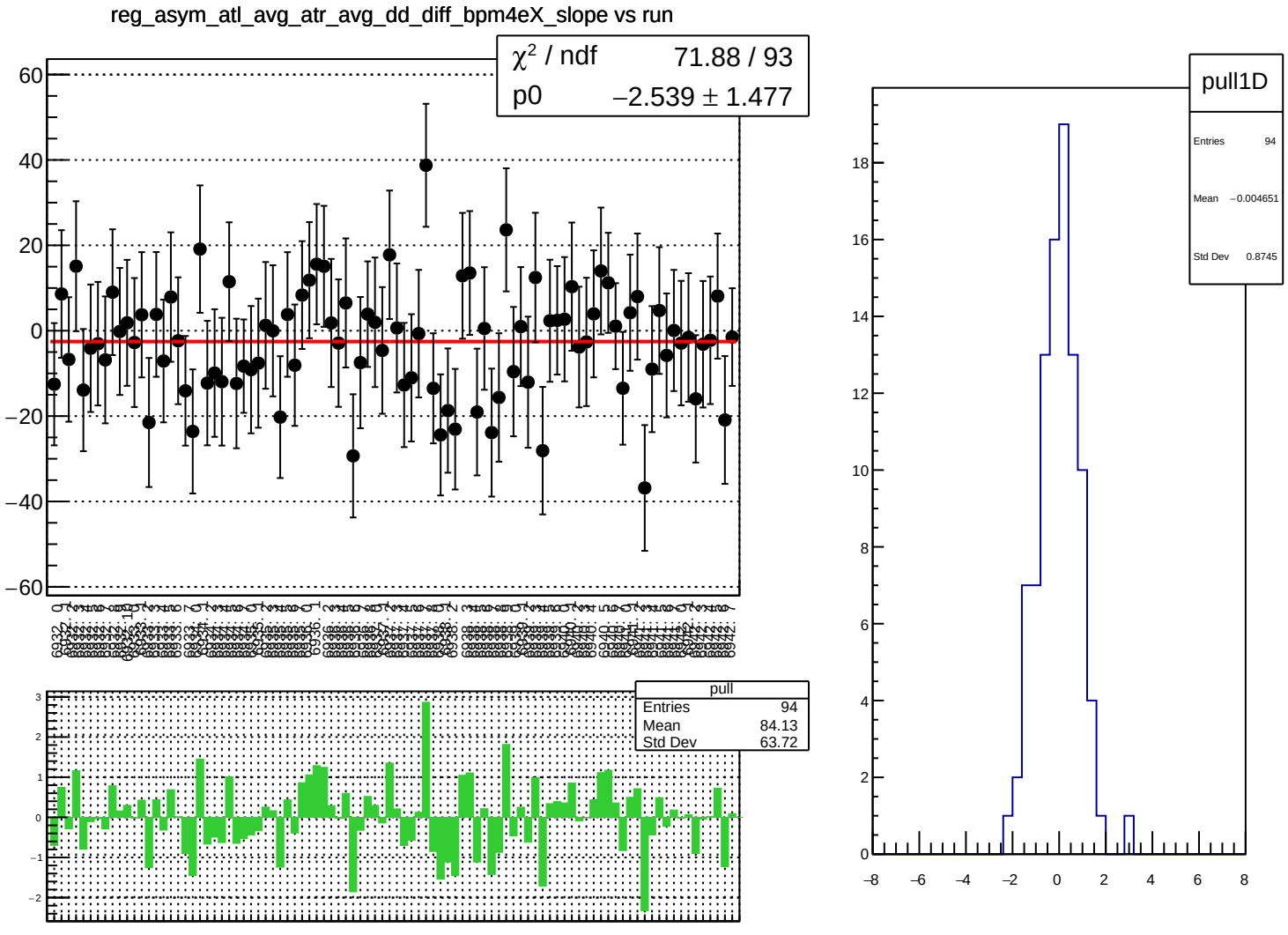

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.262 / 93
p0 60.91 ± 5.596
pull
Entries 94
Mean 413.8
Std Dev 0
pull1D
Entries 94
Mean 0.001625
Std Dev 0.2366

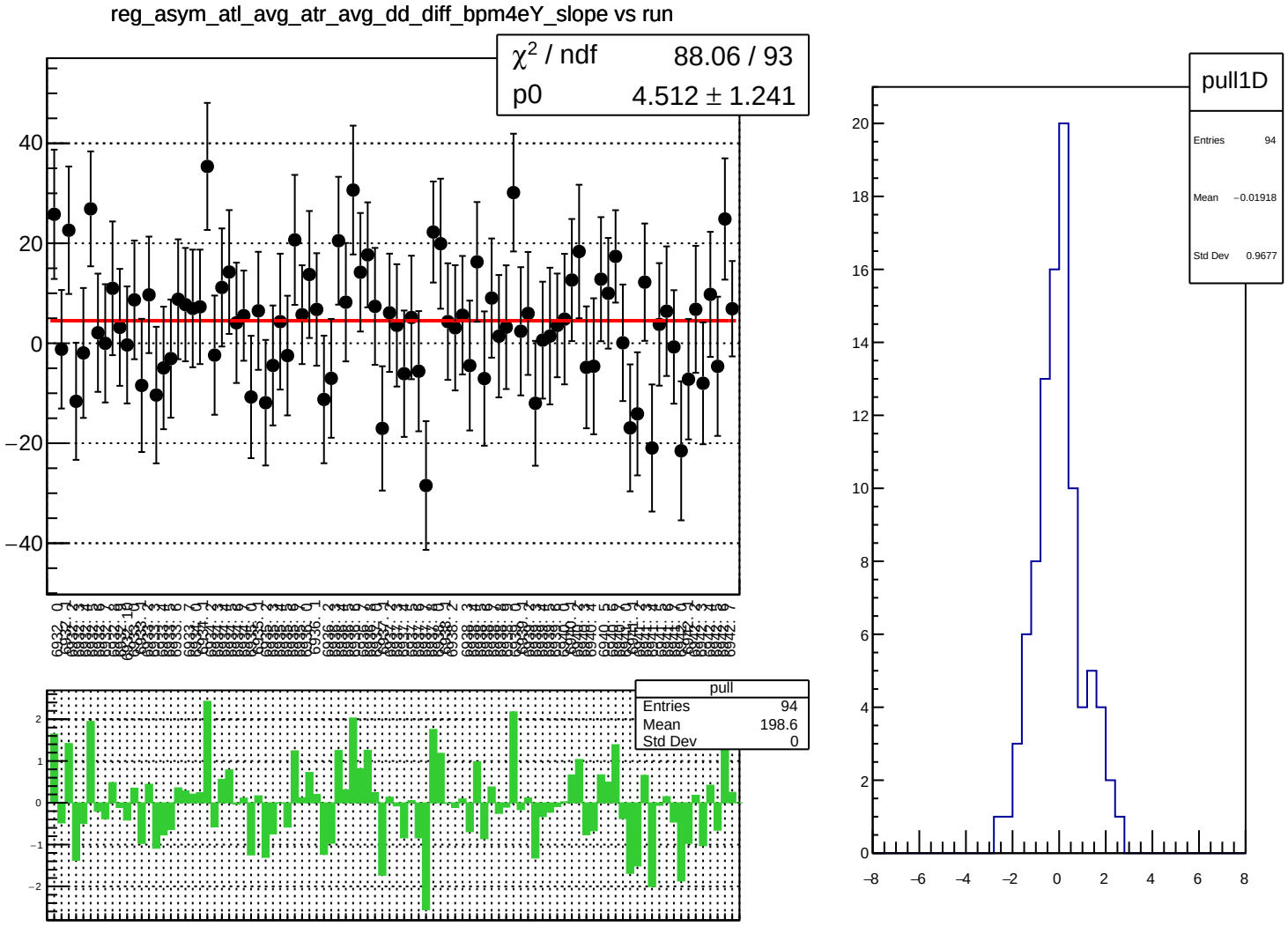

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 27.36 / 93
p0 −145.7 ± 0.2272
pull
Entries 94
Mean −313.3
Std Dev 0

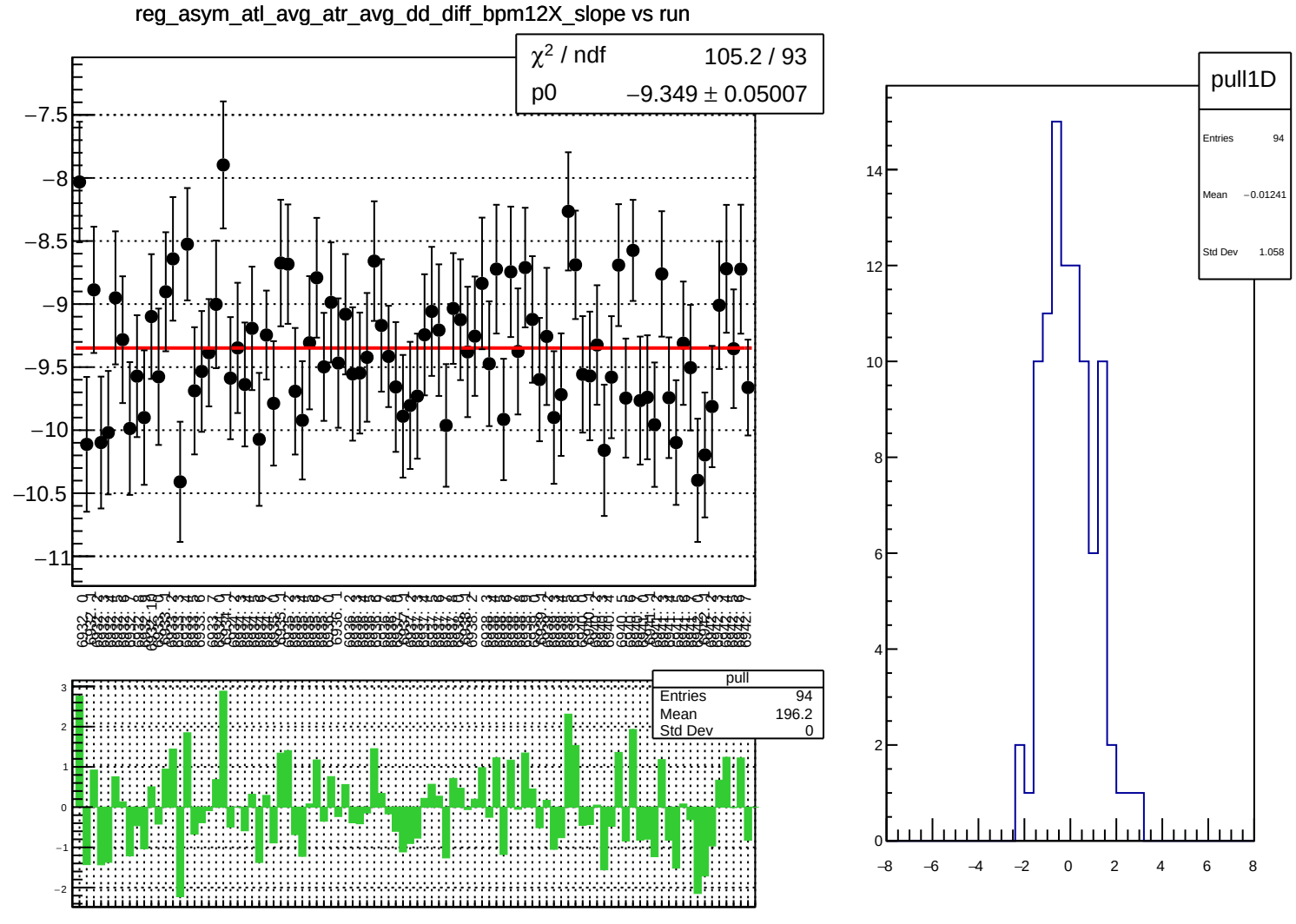

pull1D
Entries 94
Mean −0.009617
Std Dev 0.5394

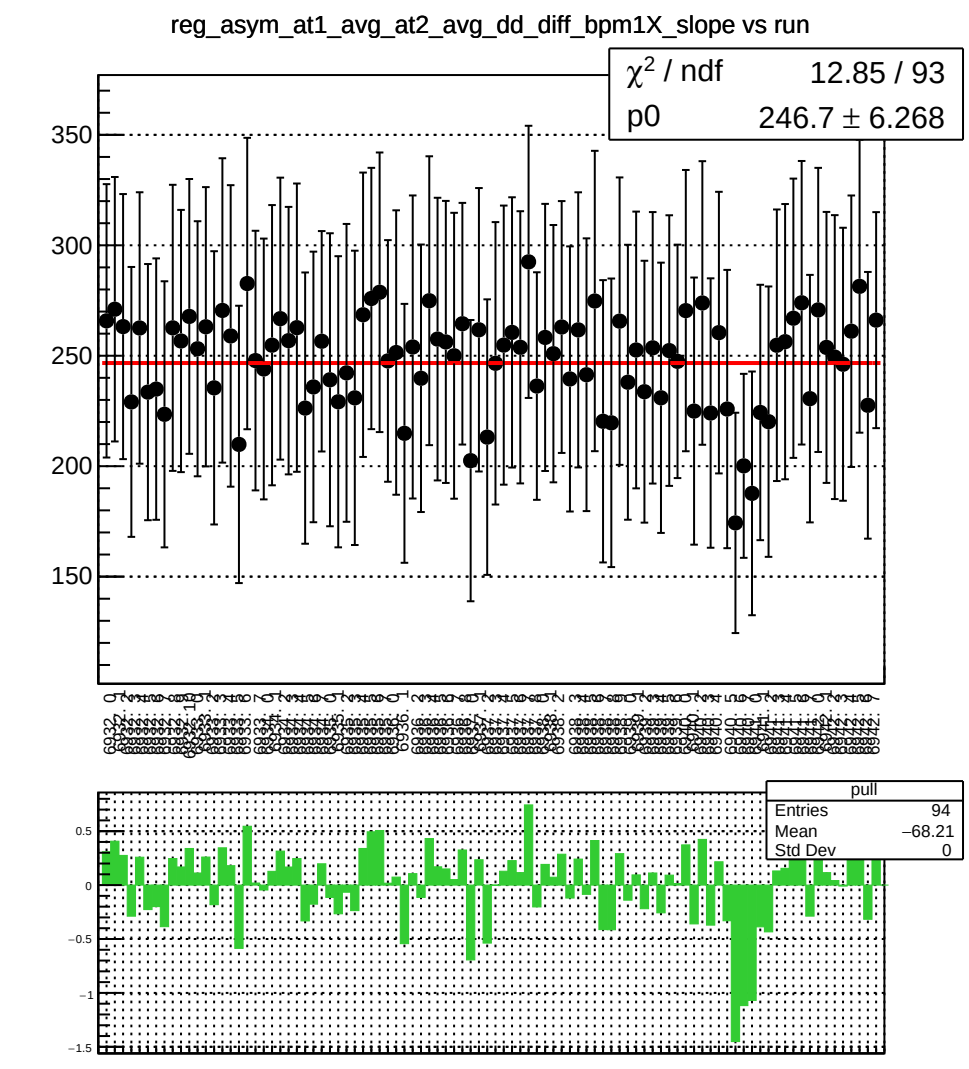

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 73.91 / 93
p0 −16.54 ± 1.592
pull
Entries 94
Mean 11.79
Std Dev 81.29
pull1D
Entries 94
Mean 0.00411
Std Dev 0.8867

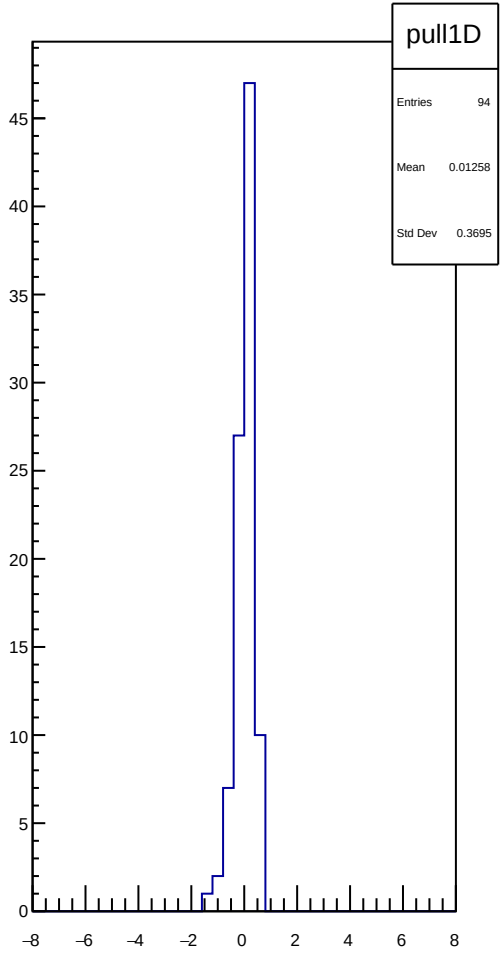

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.38 / 93
p0 0.3189 ± 1.077
pull
Entries 94
Mean 251.4
Std Dev 0
pull1D
Entries 94
Mean 0.0178
Std Dev 0.9585

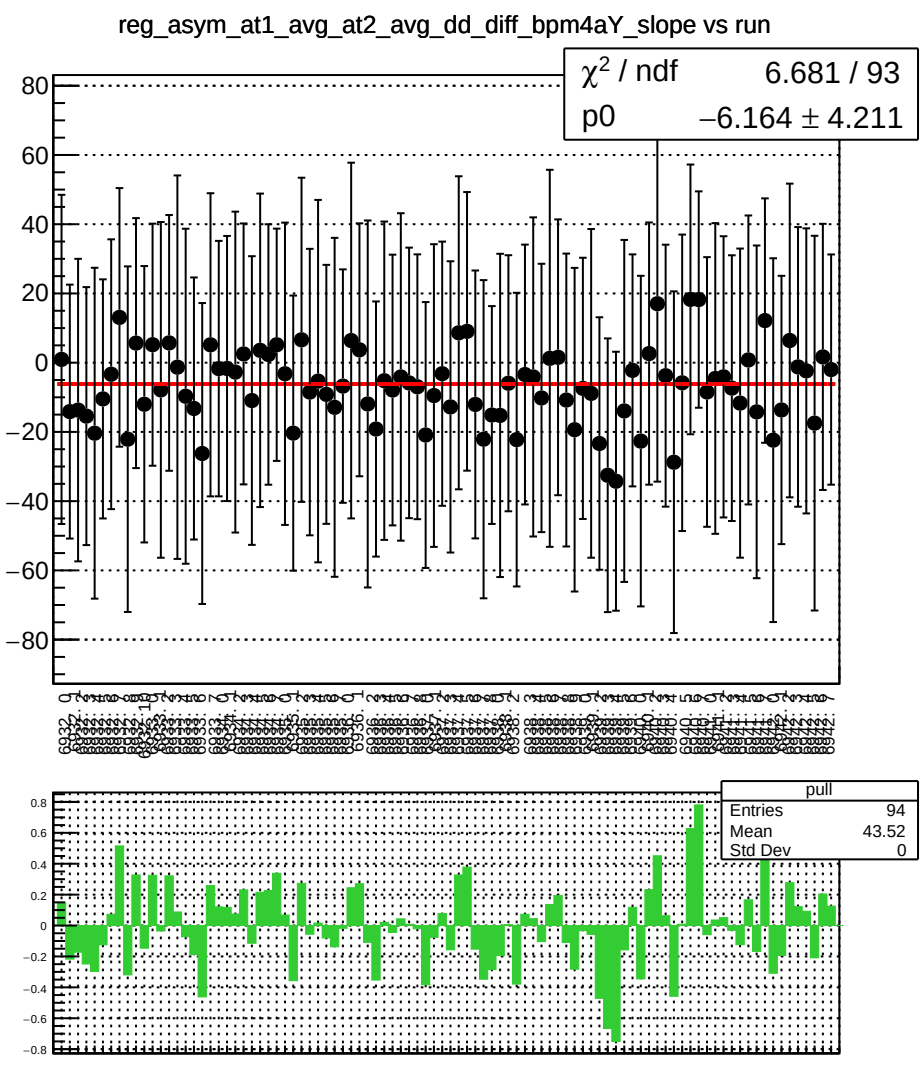

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.88 / 93
p0 −2.539 ± 1.477
pull
Entries 94
Mean 84.13
Std Dev 63.72
pull1D
Entries 94
Mean −0.004651
Std Dev 0.8745

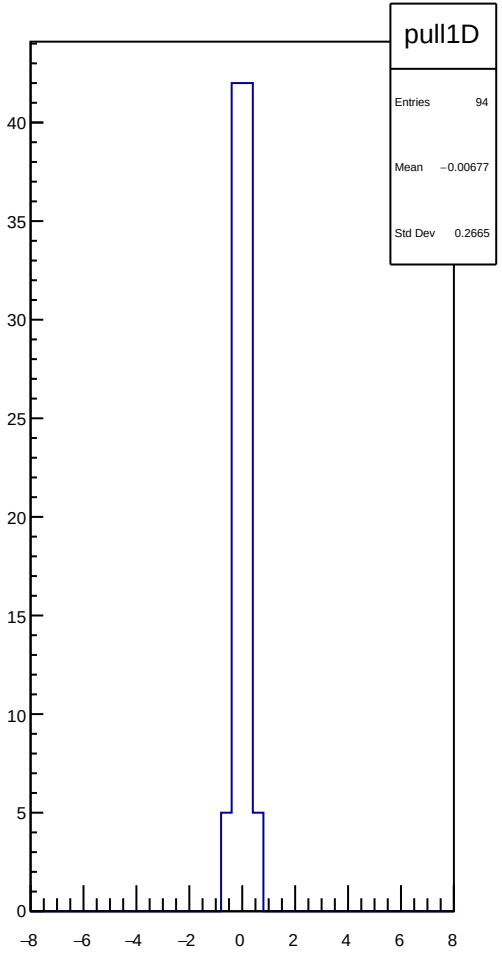

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.06 / 93
p0 4.512 ± 1.241
40
20
0
−20
−40
pull
Entries 94
Mean 198.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01918
Std Dev 0.9677
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

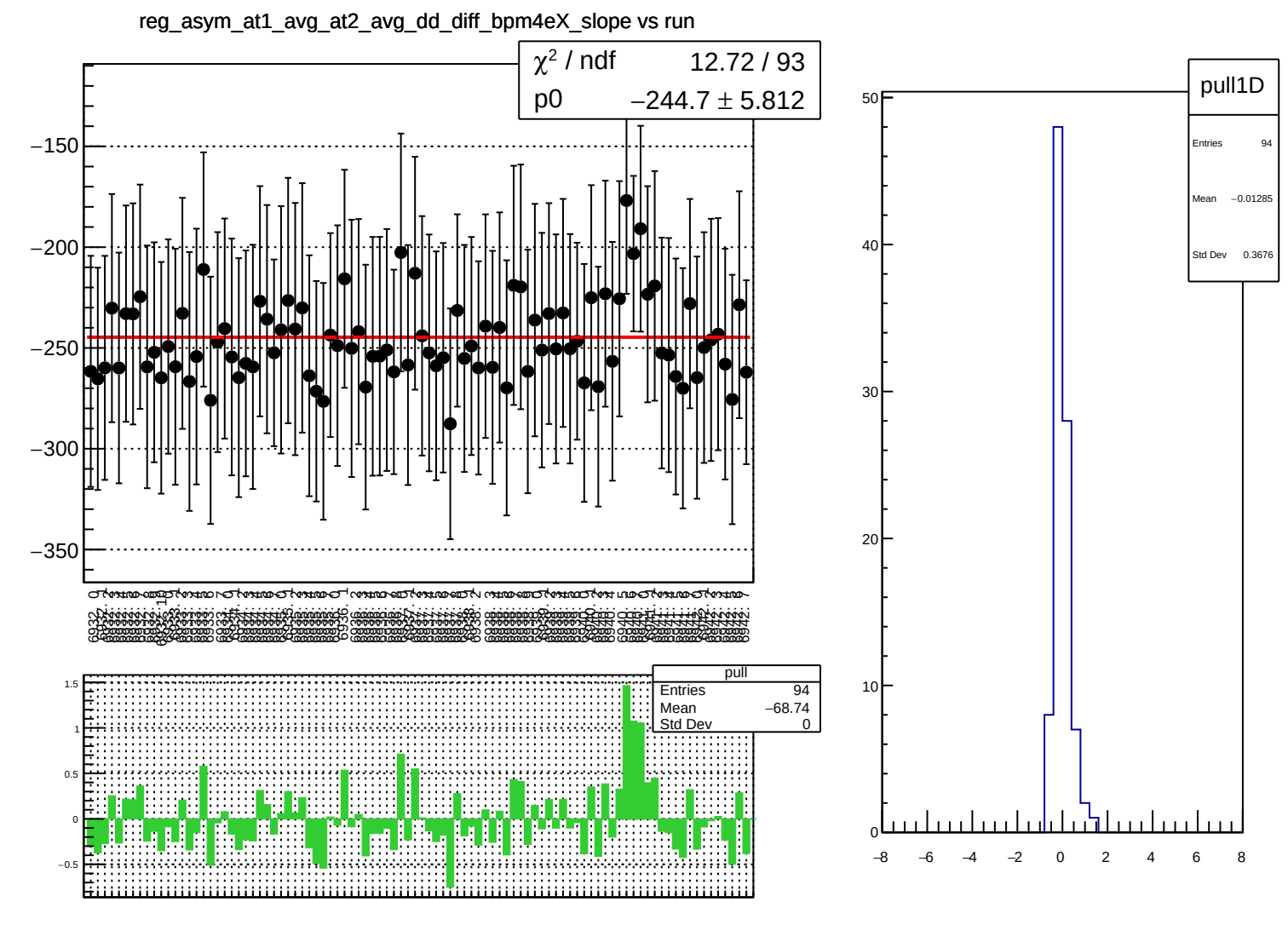

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 105.2 / 93
p0 −9.349 ± 0.05007
−7.5
−8
−8.5
−9
−9.5
−10
−10.5
−11
pull
Entries 94
Mean 196.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01241
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

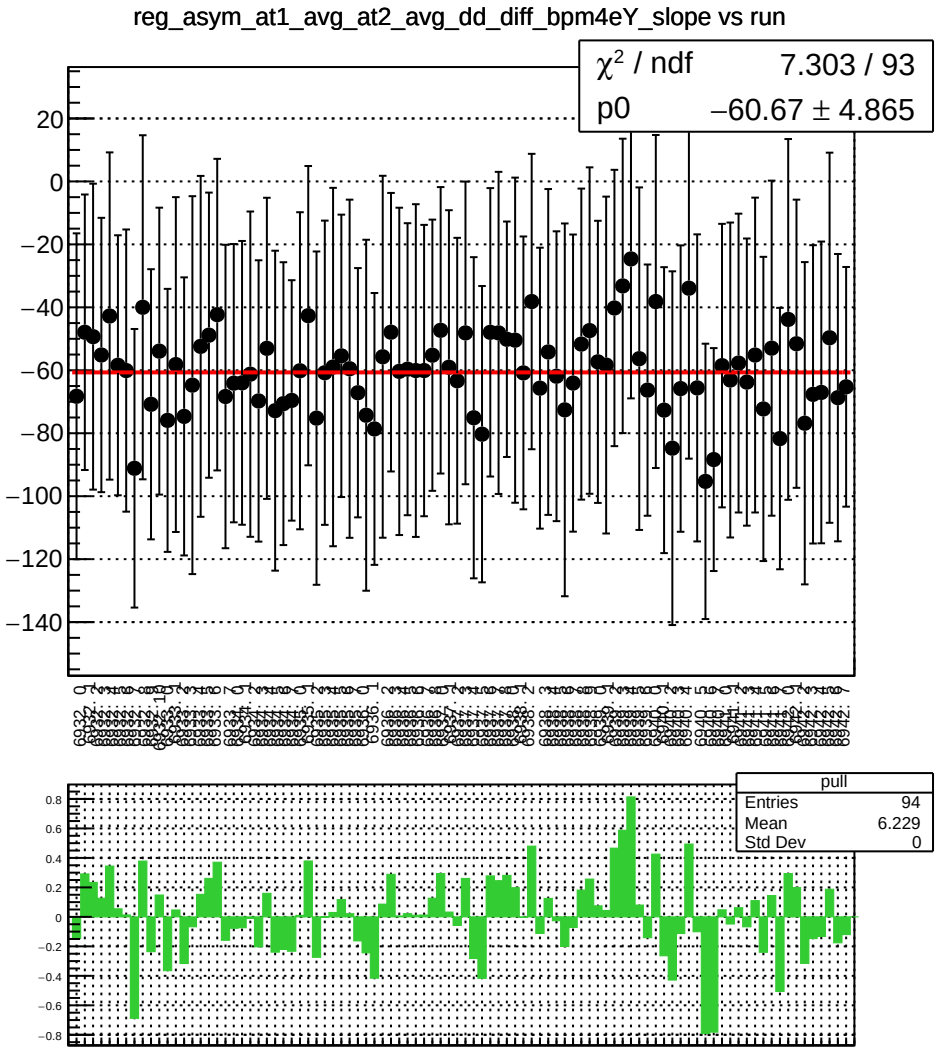

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 12.85 / 93
p0 246.7 ± 6.268
350
300
250
200
150
pull
Entries 94
Mean −68.21
Std Dev 0
0.5
0
−0.5
−1
−1.5

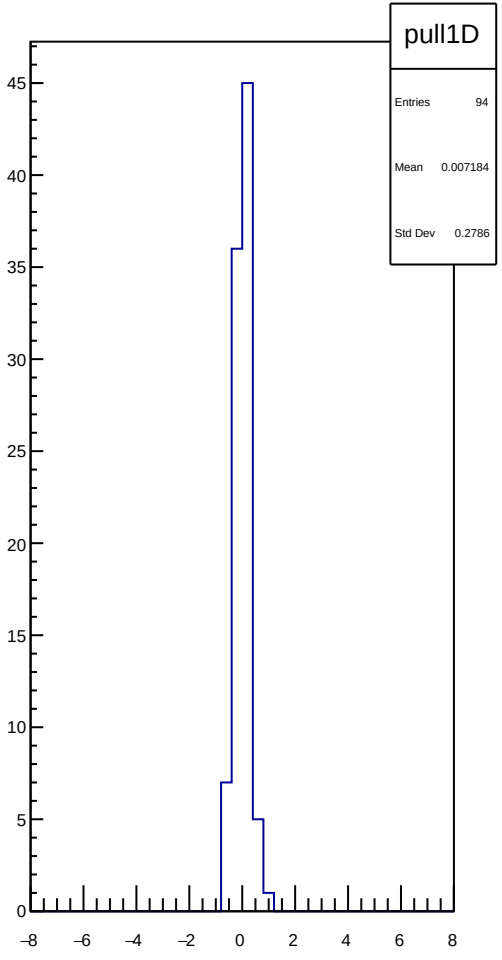

pull1D
Entries 94
Mean 0.01258
Std Dev 0.3695
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

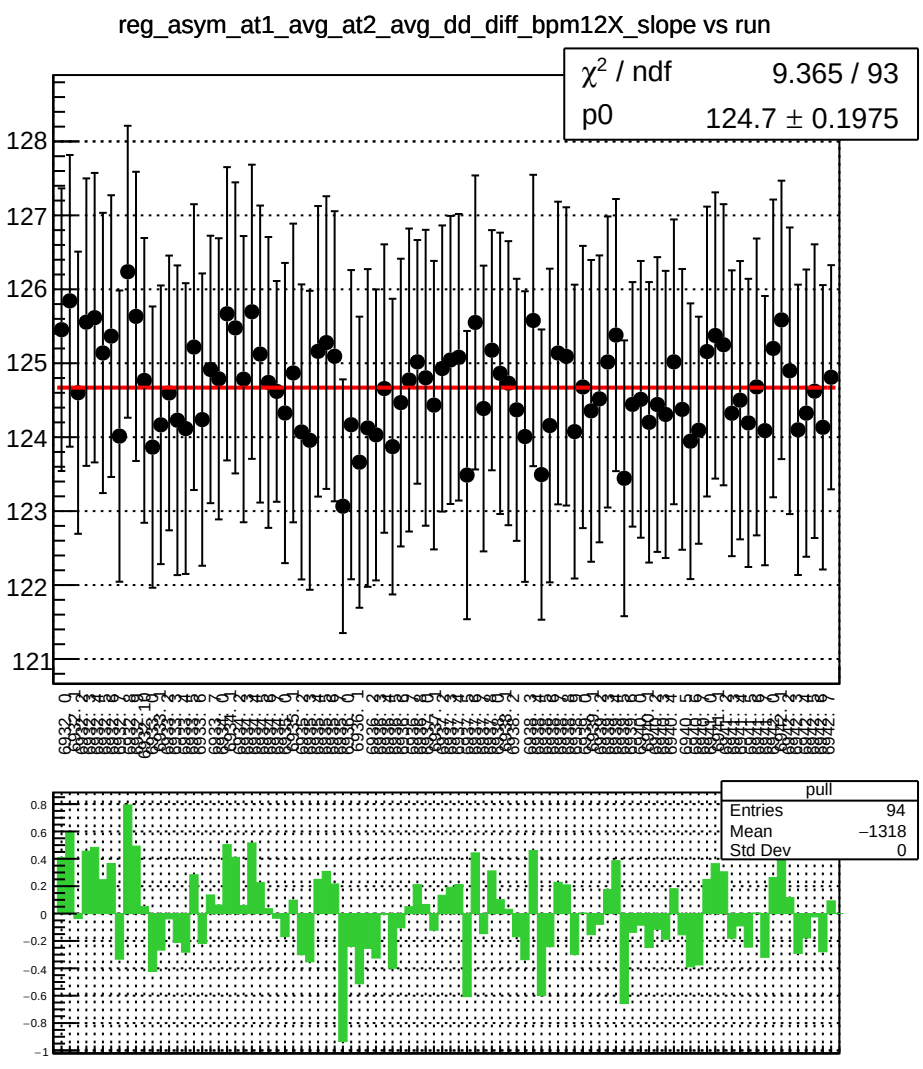

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.681 / 93
p0 −6.164 ± 4.211
pull
Entries 94
Mean 43.52
Std Dev 0

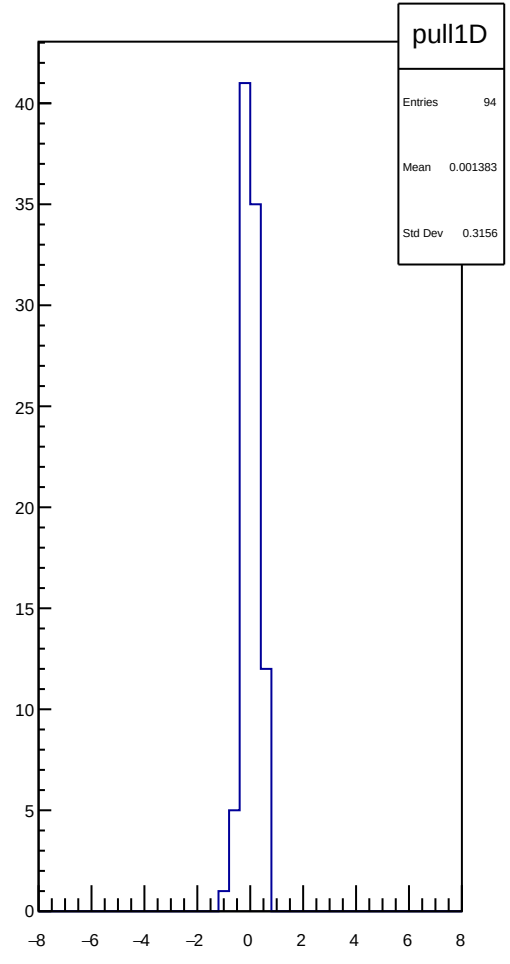

pull1D
Entries 94
Mean −0.00677
Std Dev 0.2665

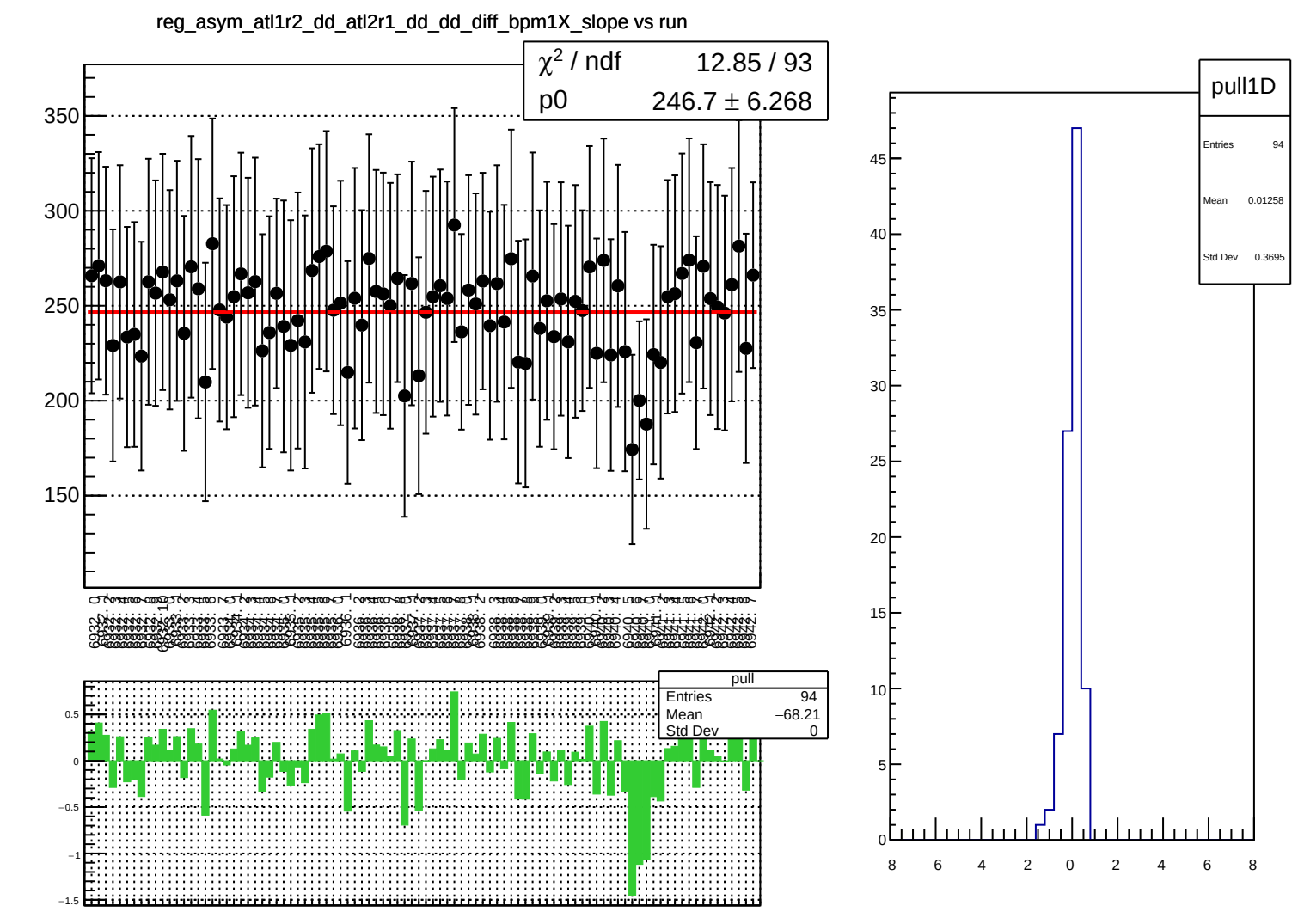

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.72 / 93
p0 −244.7 ± 5.812
−150
−200
−250
−300
−350
pull
Entries 94
Mean −68.74
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01285
Std Dev 0.3676
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

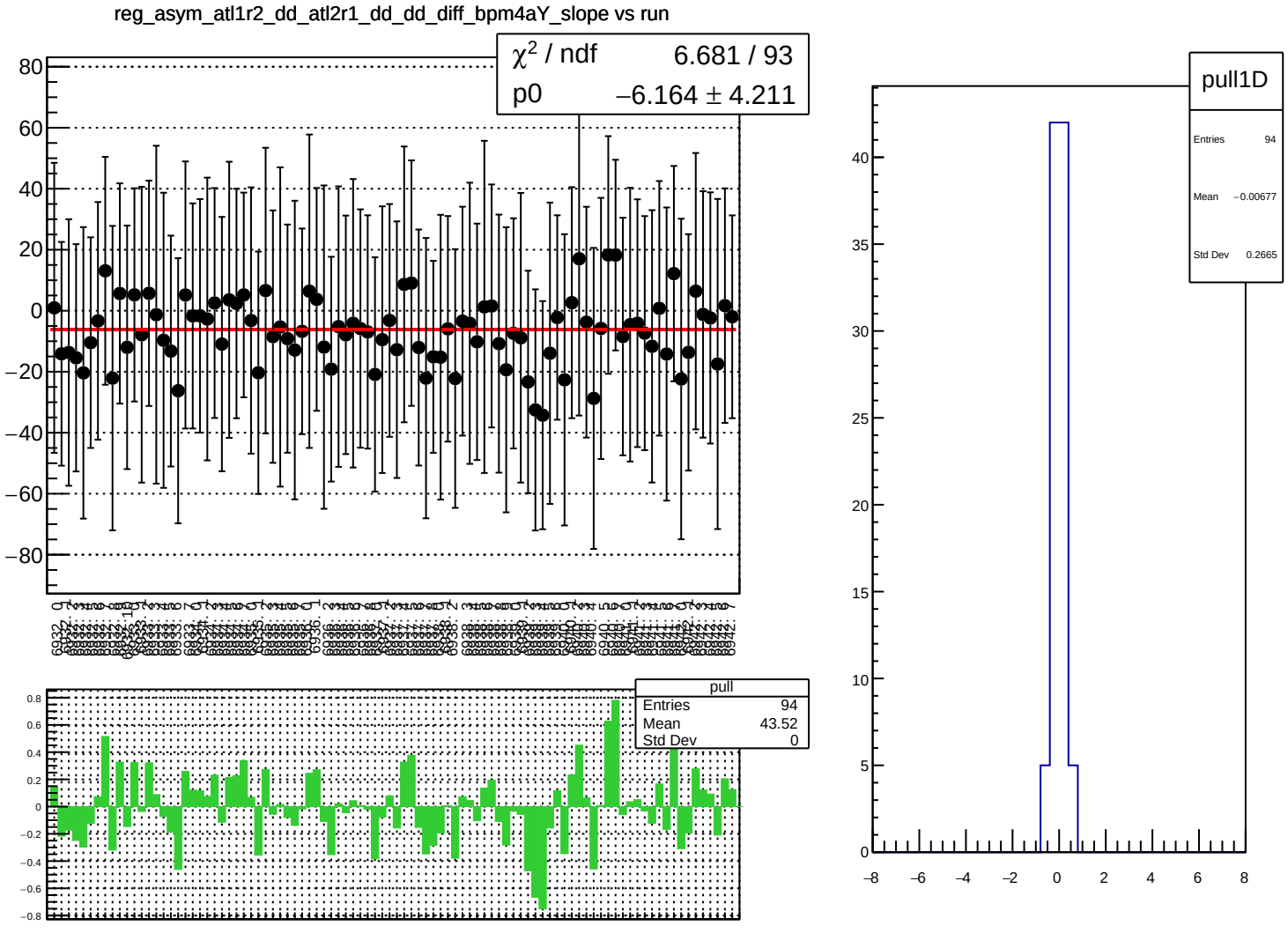

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.303 / 93
p0 −60.67 ± 4.865
pull
Entries 94
Mean 6.229
Std Dev 0

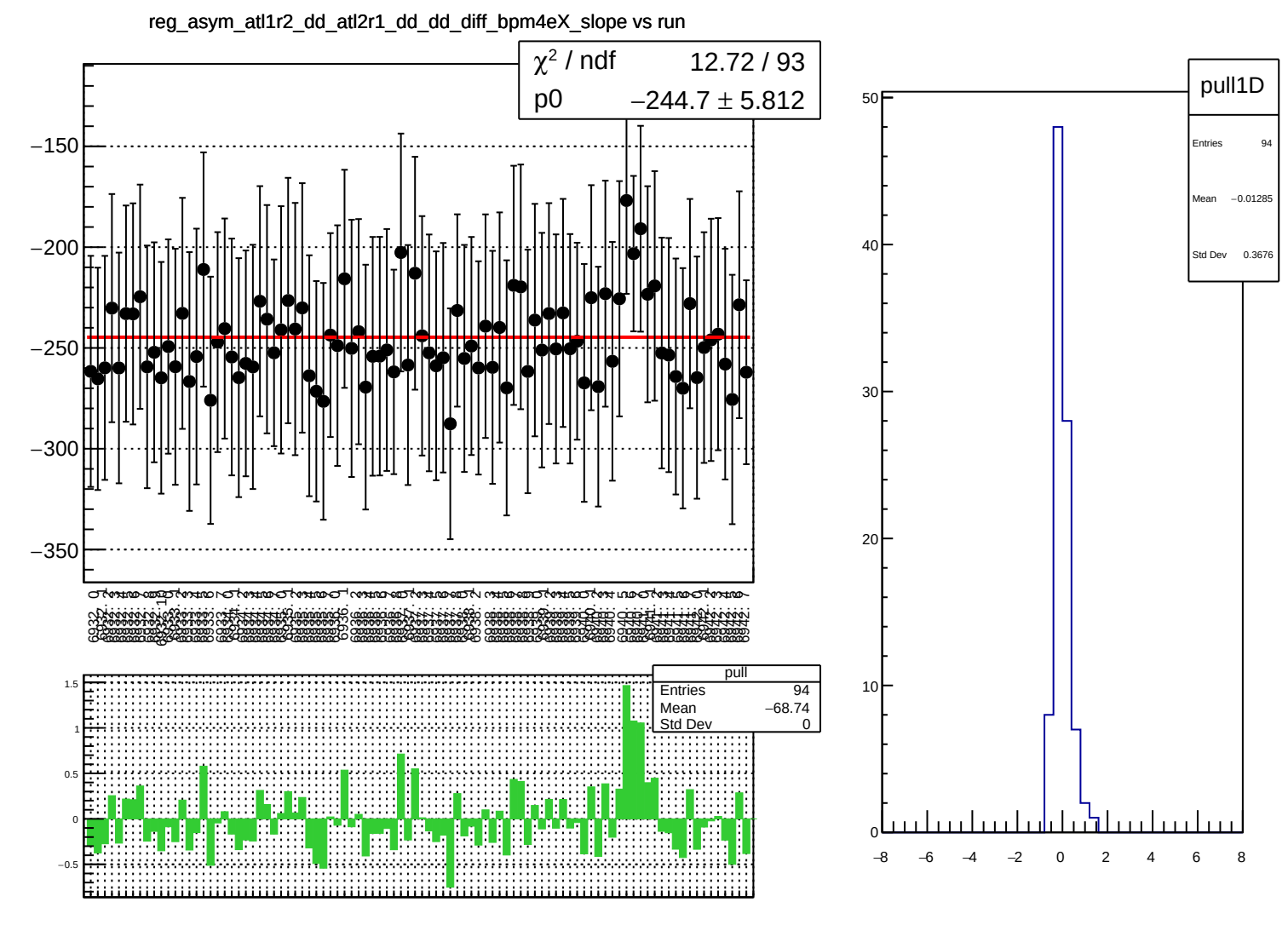

pull1D
Entries 94
Mean 0.007184
Std Dev 0.2786

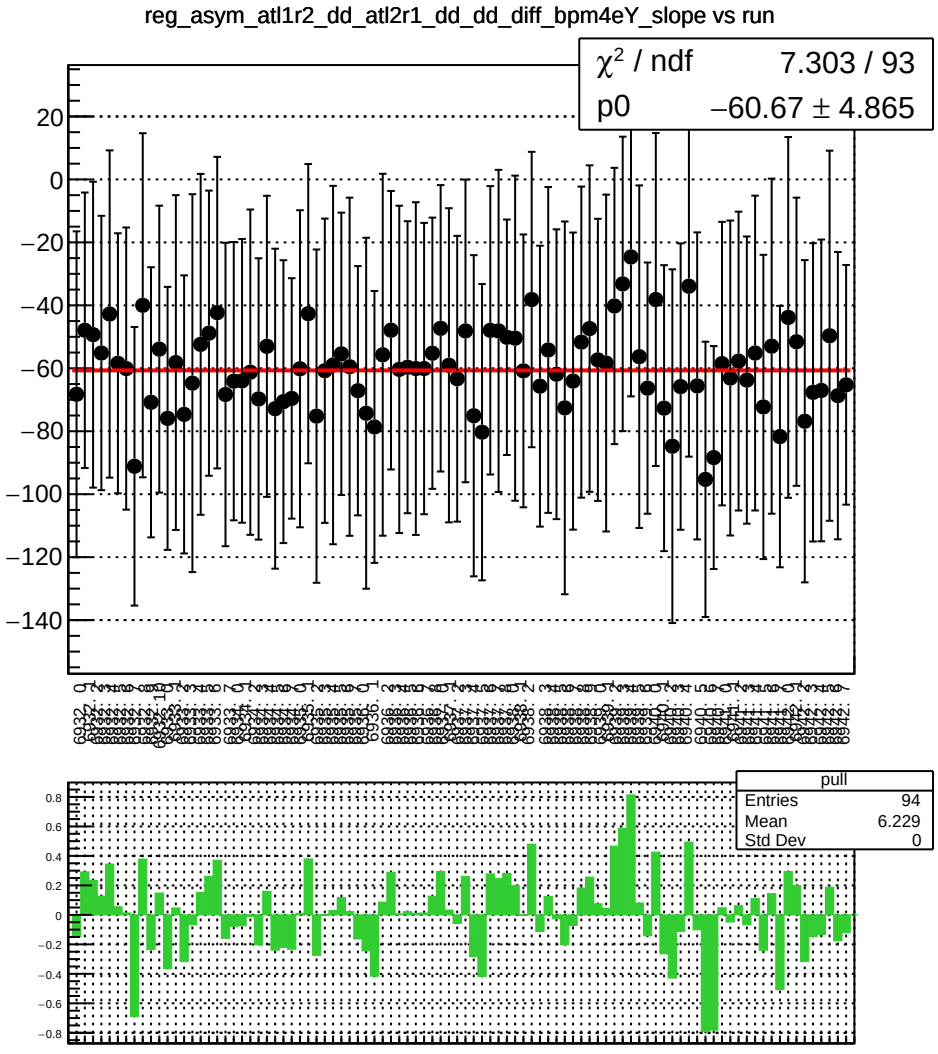

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 9.365 / 93
p0 124.7 ± 0.1975
pull
Entries 94
Mean −1318
Std Dev 0

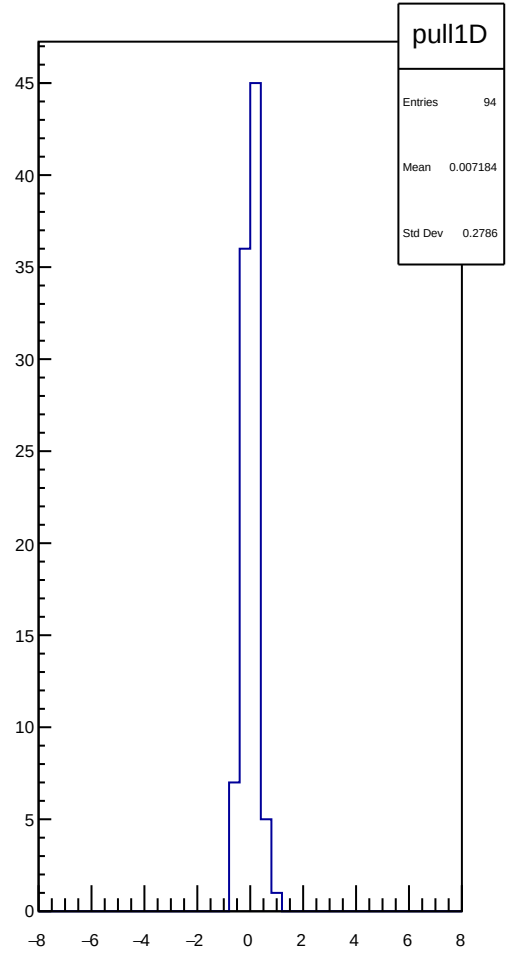

pull1D
Entries 94
Mean 0.001383
Std Dev 0.3156

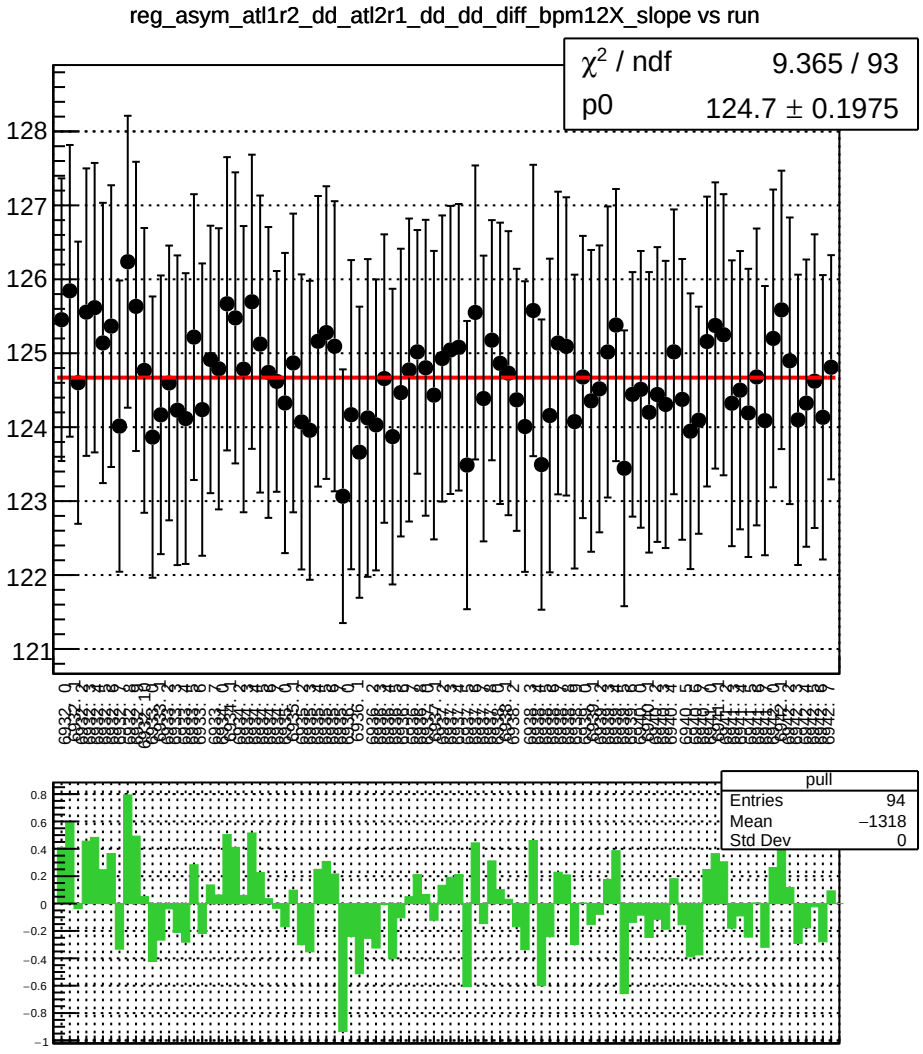

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 12.85 / 93
p0 246.7 ± 6.268
350
300
250
200
150
pull
Entries 94
Mean −68.21
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01258
Std Dev 0.3695
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

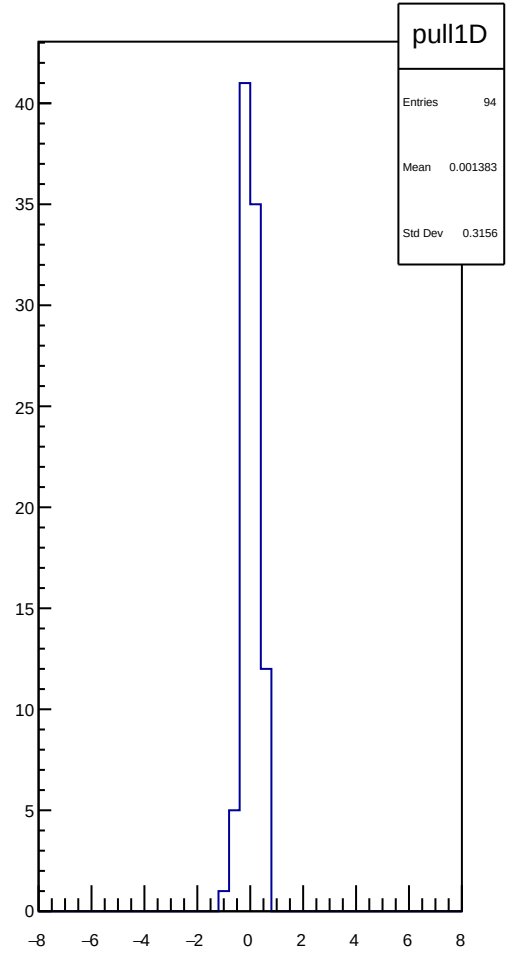

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.681 / 93
p0 −6.164 ± 4.211
pull
Entries 94
Mean 43.52
Std Dev 0
pull1D
Entries 94
Mean −0.00677
Std Dev 0.2665

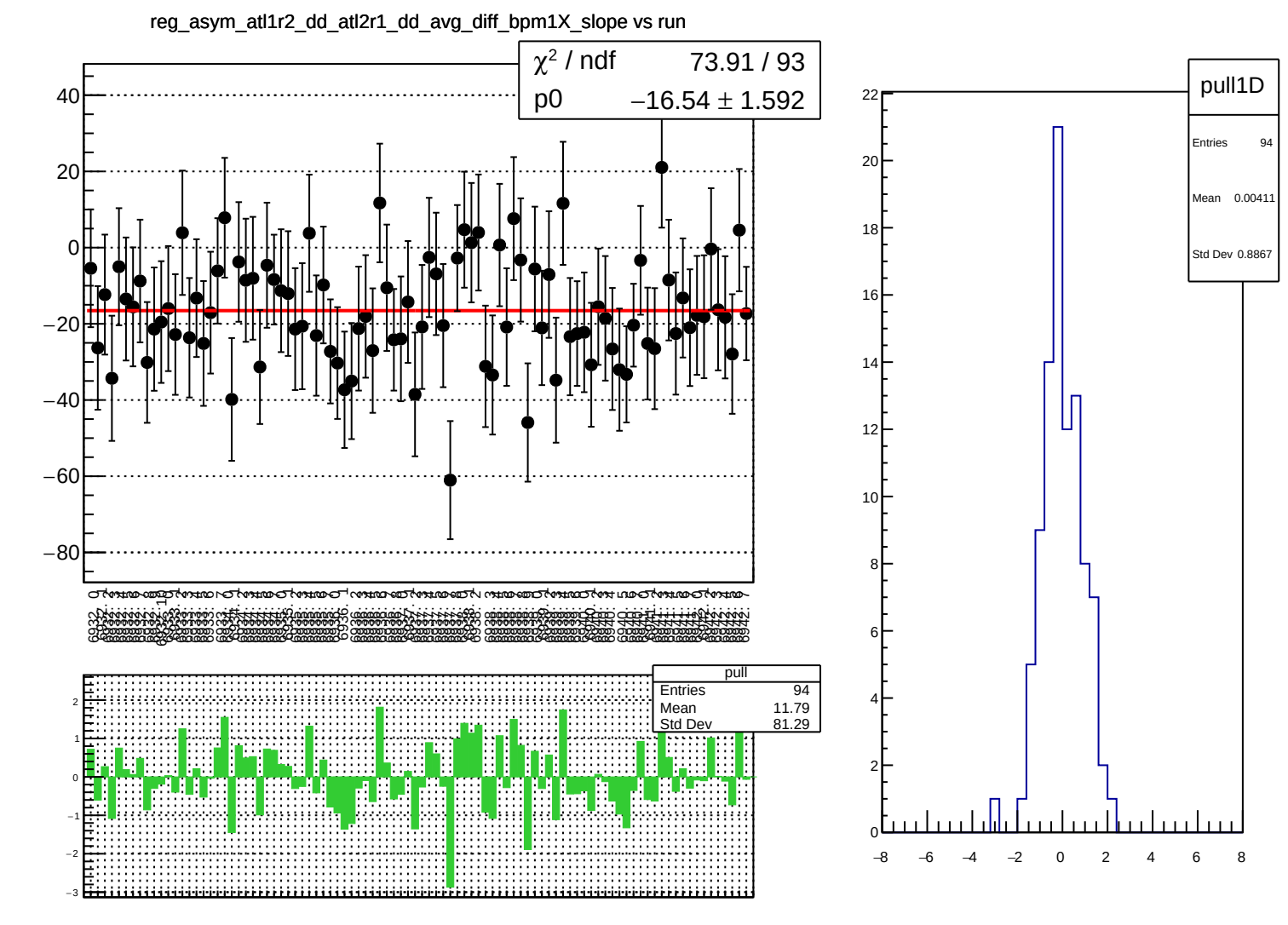

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.72 / 93
p0 −244.7 ± 5.812
−150
−200
−250
−300
−350
pull
Entries 94
Mean −68.74
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01285
Std Dev 0.3676
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

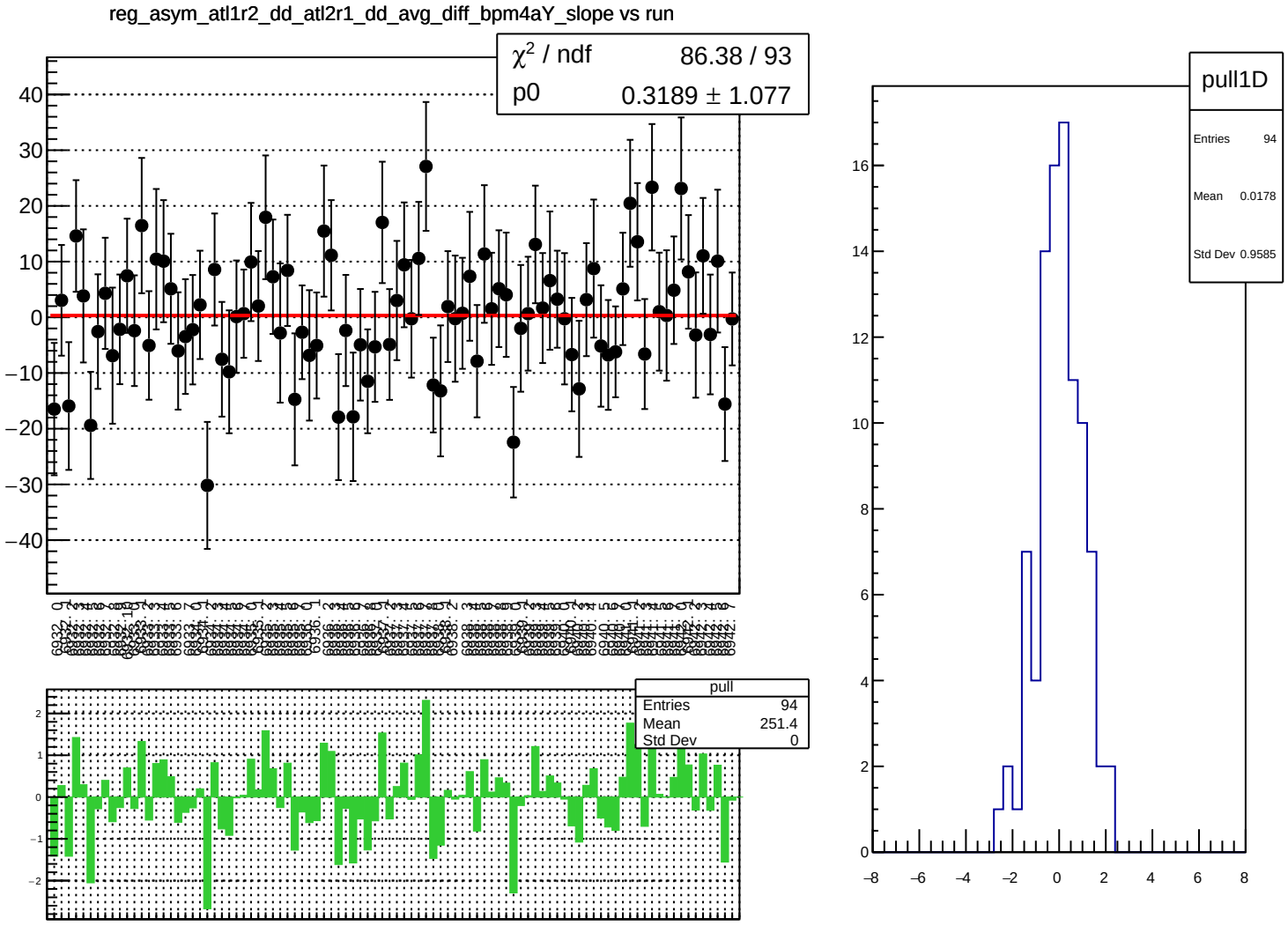

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.303 / 93
p0 −60.67 ± 4.865
pull
Entries 94
Mean 6.229
Std Dev 0

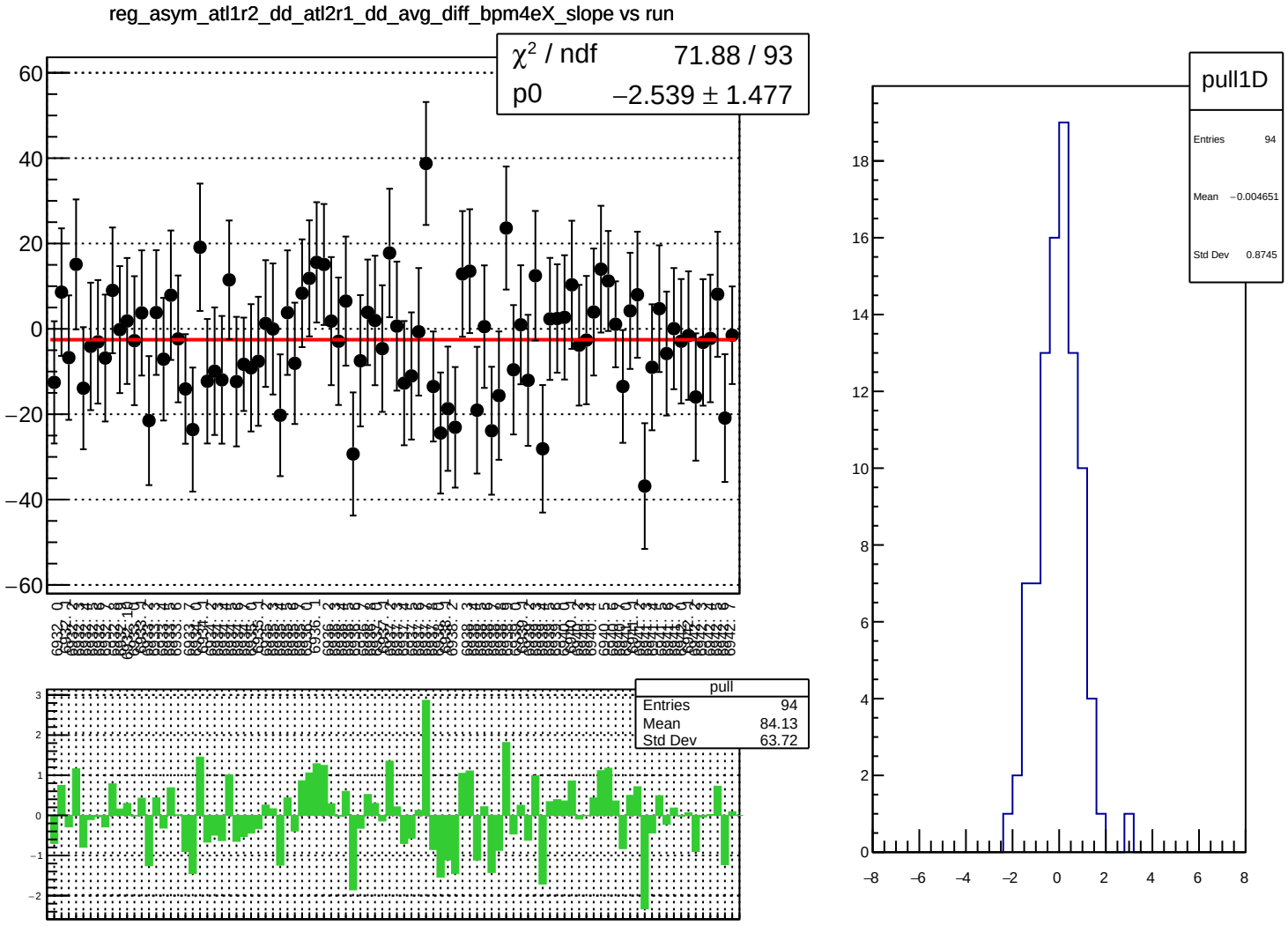

pull1D
Entries 94
Mean 0.007184
Std Dev 0.2786

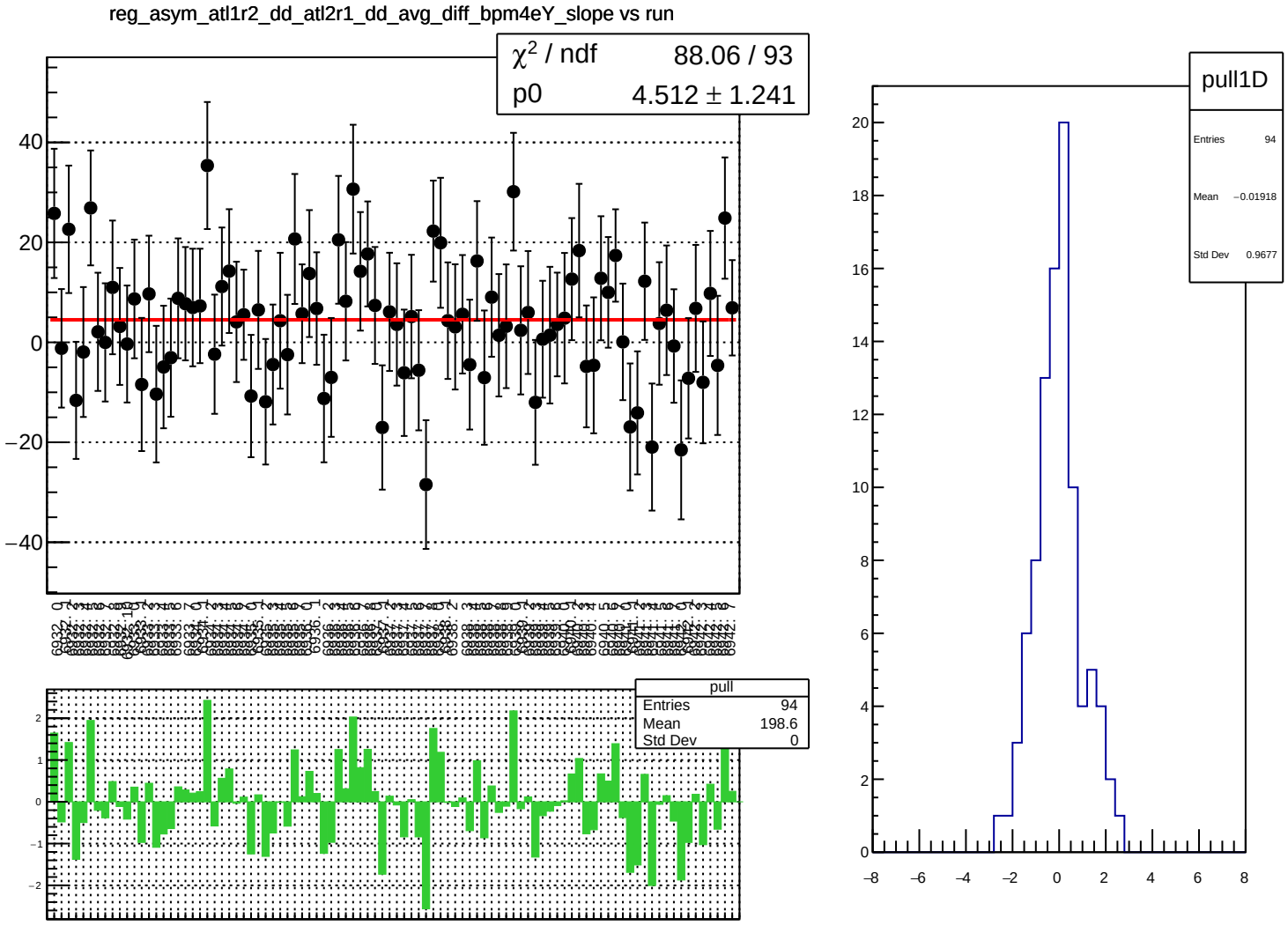

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 9.365 / 93
p0 124.7 ± 0.1975
pull
Entries 94
Mean −1318
Std Dev 0

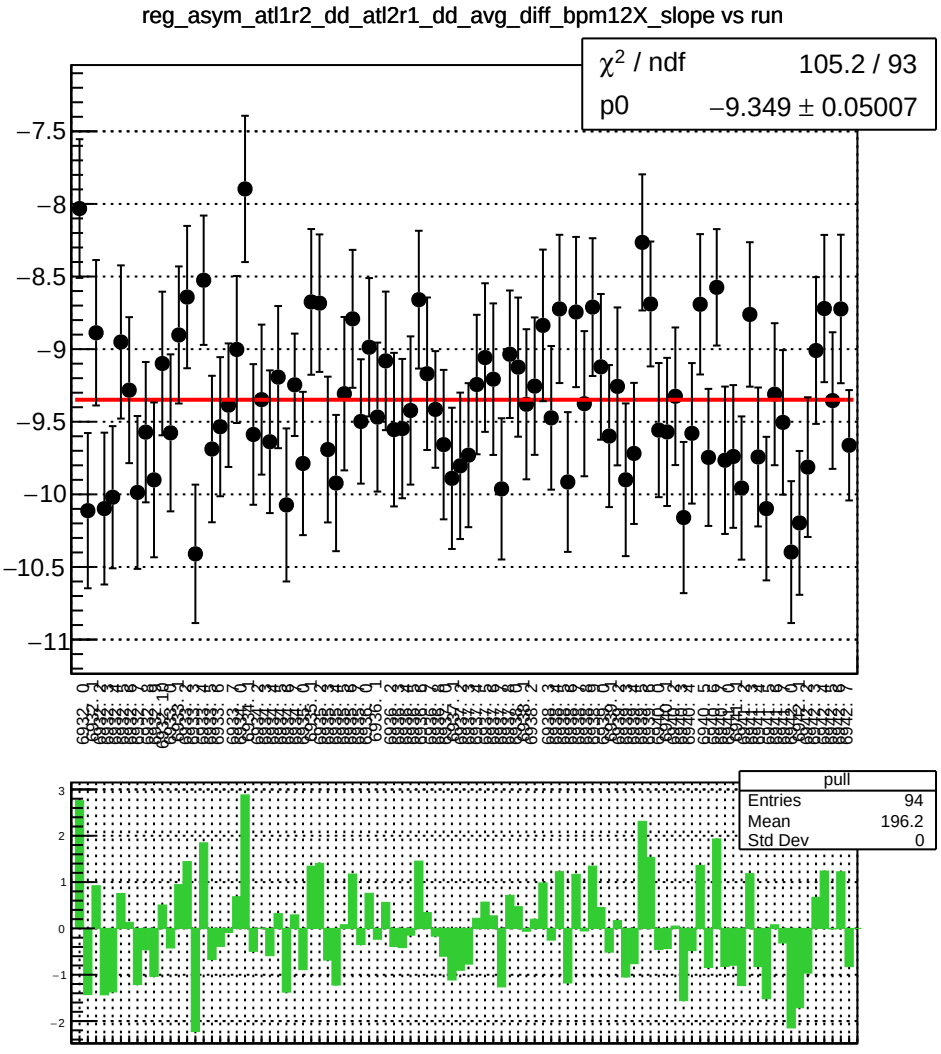

pull1D
Entries 94
Mean 0.001383
Std Dev 0.3156

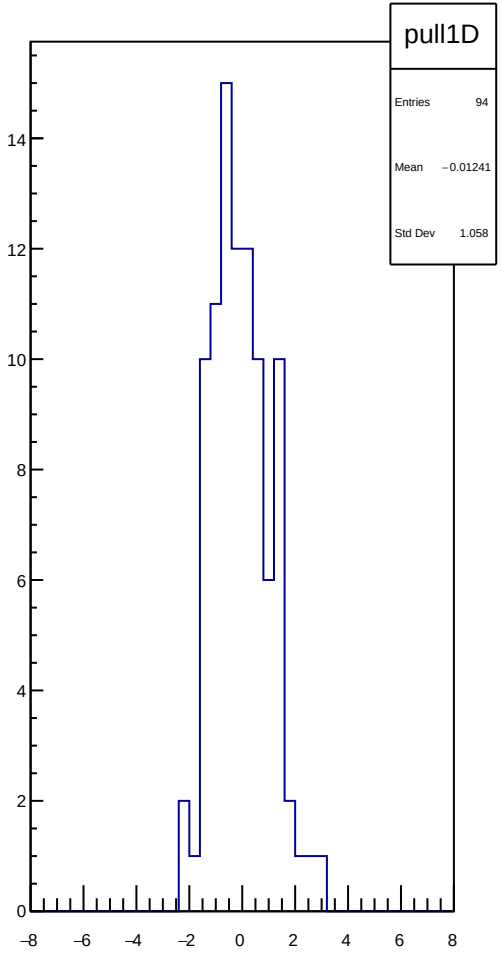

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 73.91 / 93
p0 −16.54 ± 1.592
pull
Entries 94
Mean 11.79
Std Dev 81.29
pull1D
Entries 94
Mean 0.00411
Std Dev 0.8867

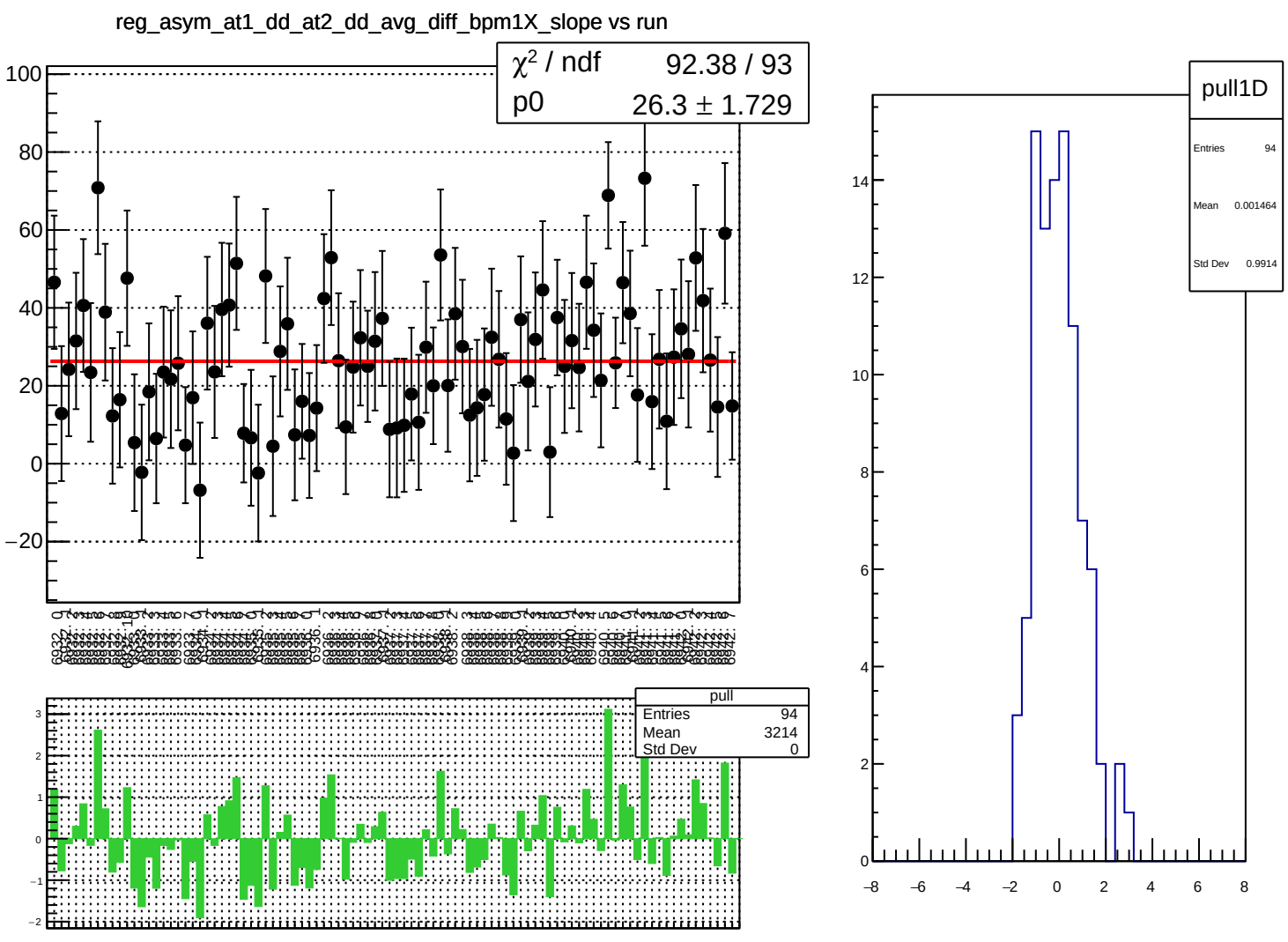

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.38 / 93
p0 0.3189 ± 1.077
pull
Entries 94
Mean 251.4
Std Dev 0
pull1D
Entries 94
Mean 0.0178
Std Dev 0.9585

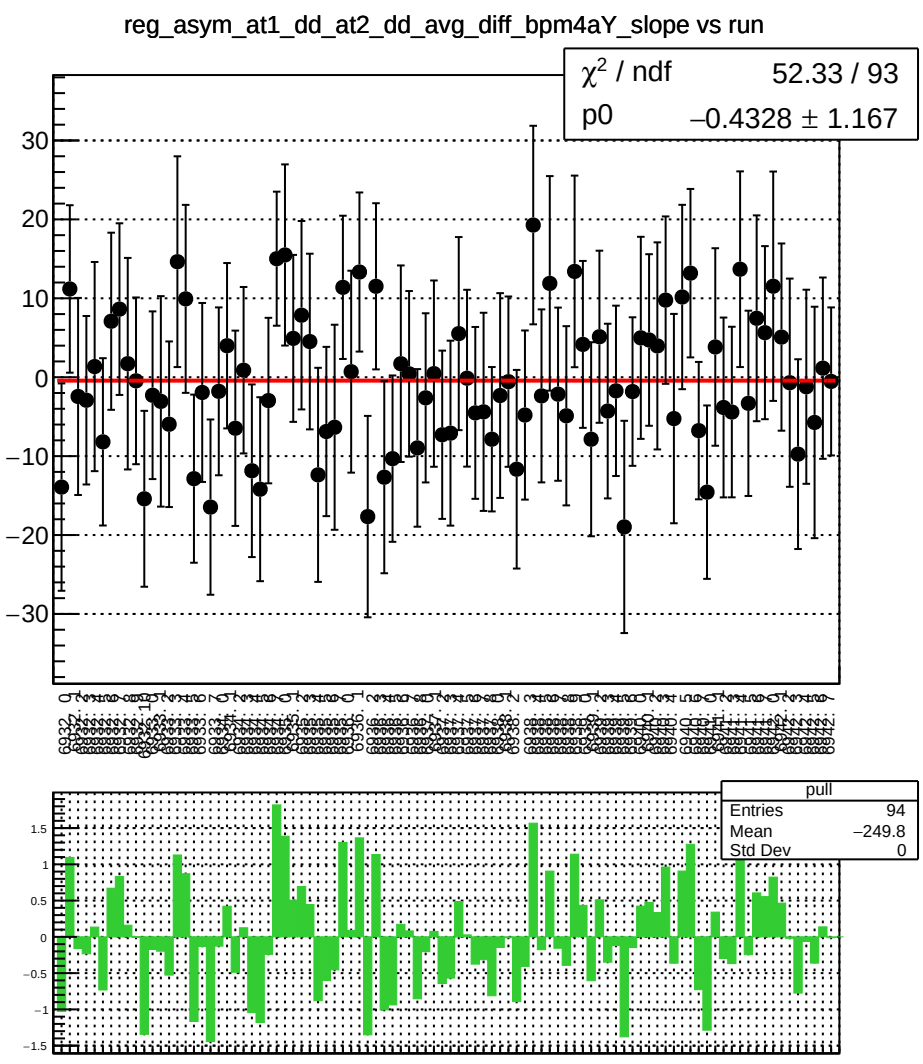

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.88 / 93
p0 −2.539 ± 1.477
pull
Entries 94
Mean 84.13
Std Dev 63.72
pull1D
Entries 94
Mean −0.004651
Std Dev 0.8745

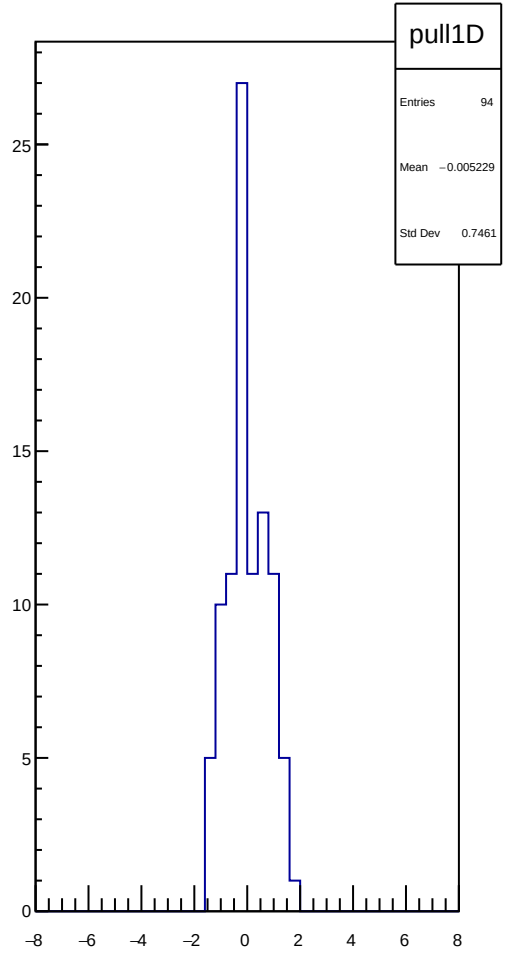

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.06 / 93
p0 4.512 ± 1.241
40
20
0
−20
−40
pull
Entries 94
Mean 198.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01918
Std Dev 0.9677
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

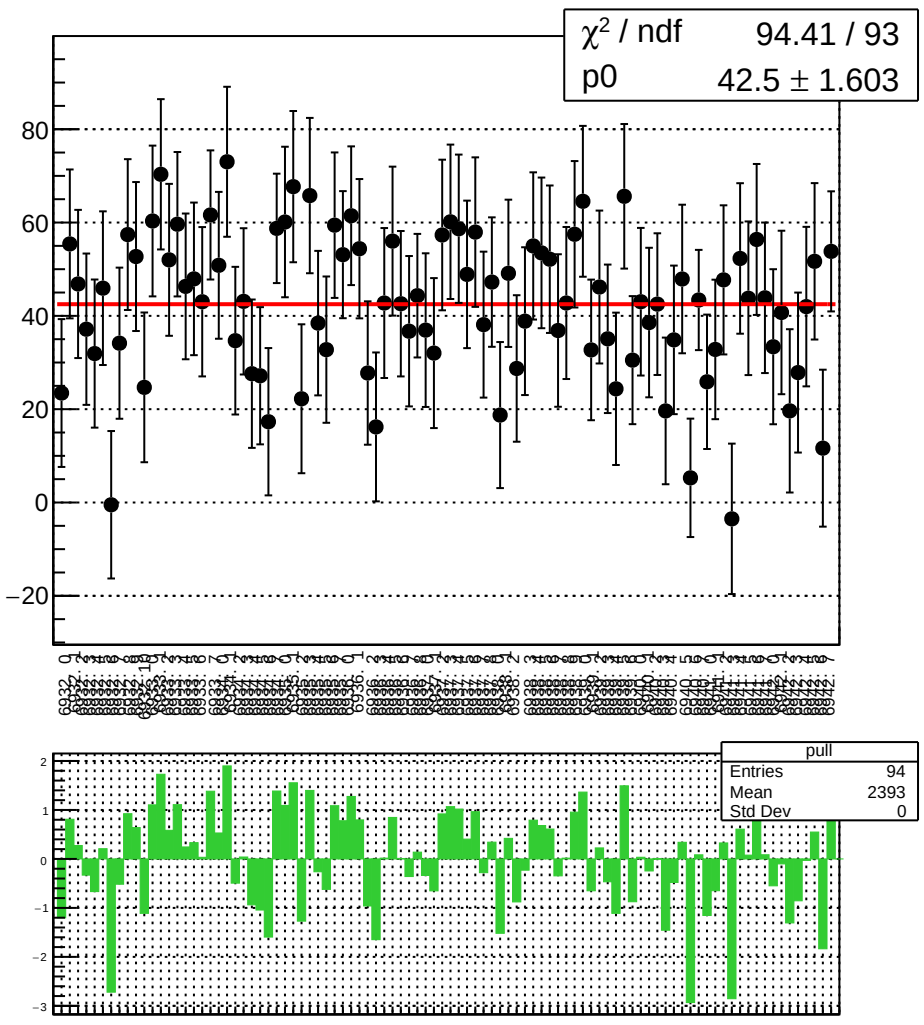

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 105.2 / 93
p0 −9.349 ± 0.05007
pull
Entries 94
Mean 196.2
Std Dev 0

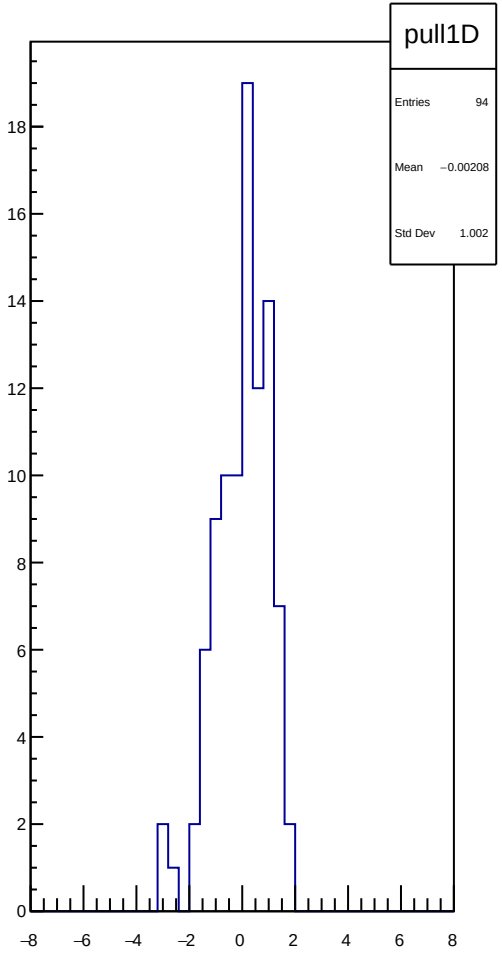

pull1D
Entries 94
Mean −0.01241
Std Dev 1.058

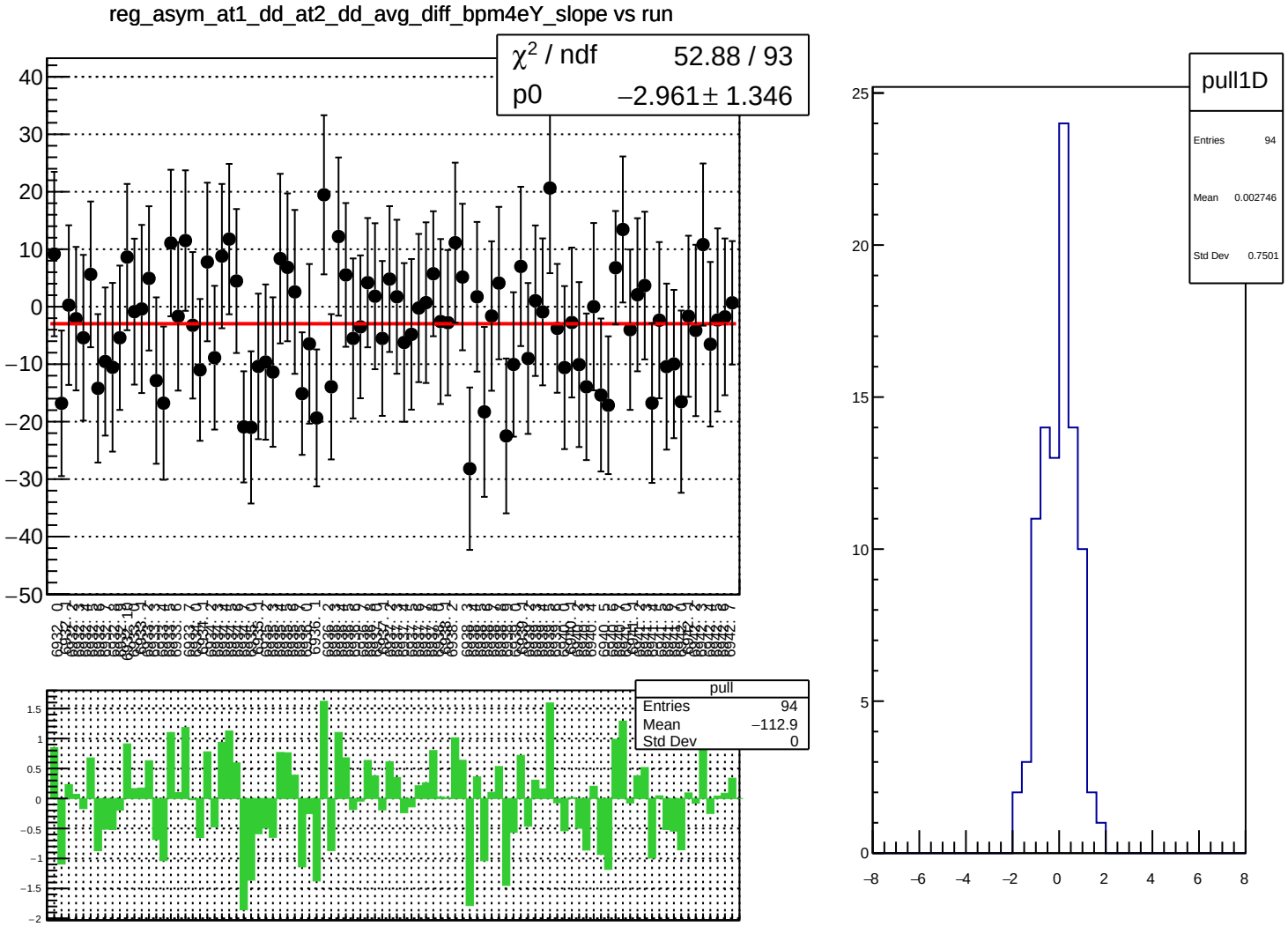

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 92.38 / 93
p0 26.3 ± 1.729
pull
Entries 94
Mean 3214
Std Dev 0
pull1D
Entries 94
Mean 0.001464
Std Dev 0.9914

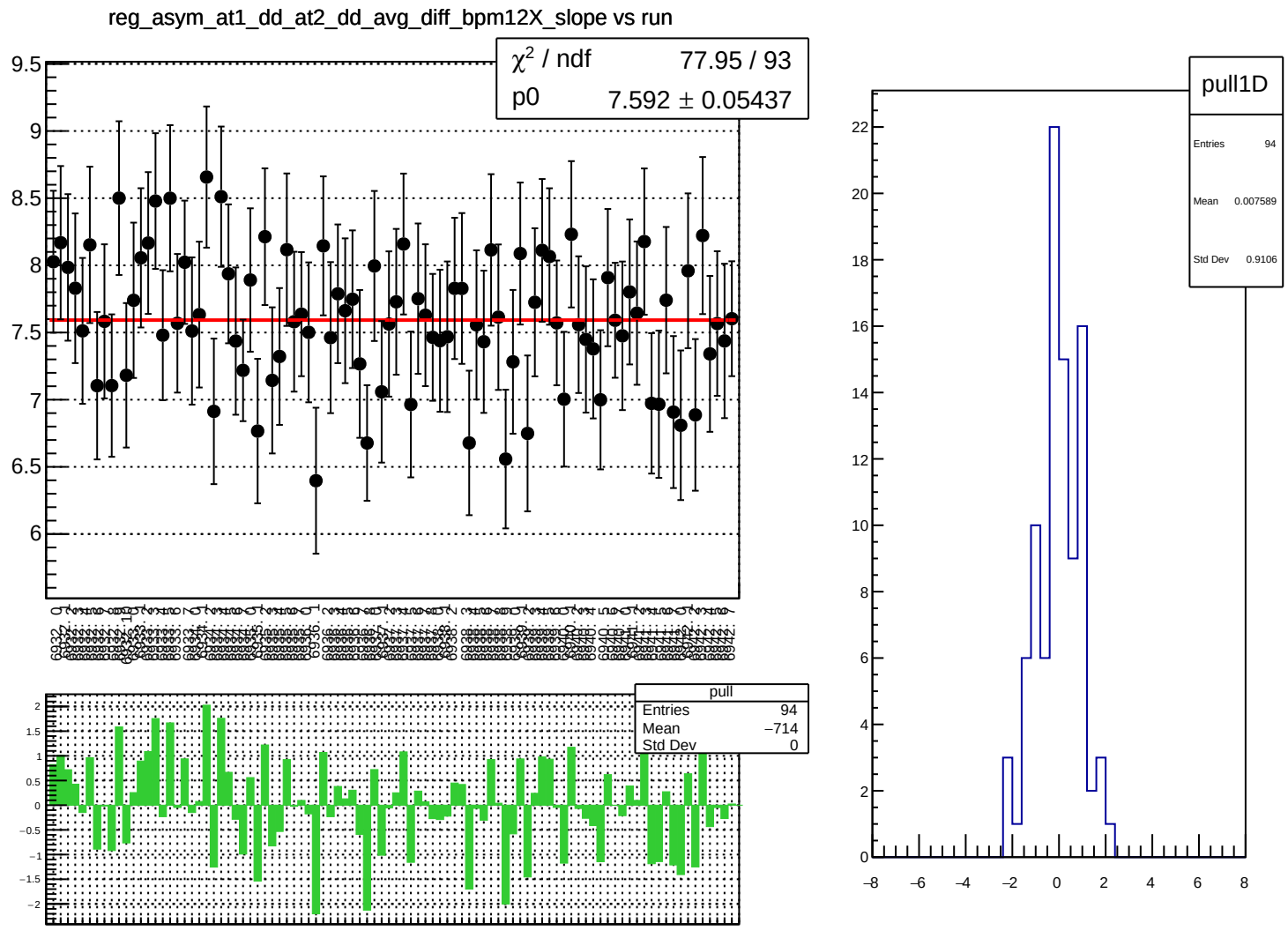

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.33 / 93
p0 −0.4328 ± 1.167
pull
Entries 94
Mean −249.8
Std Dev 0

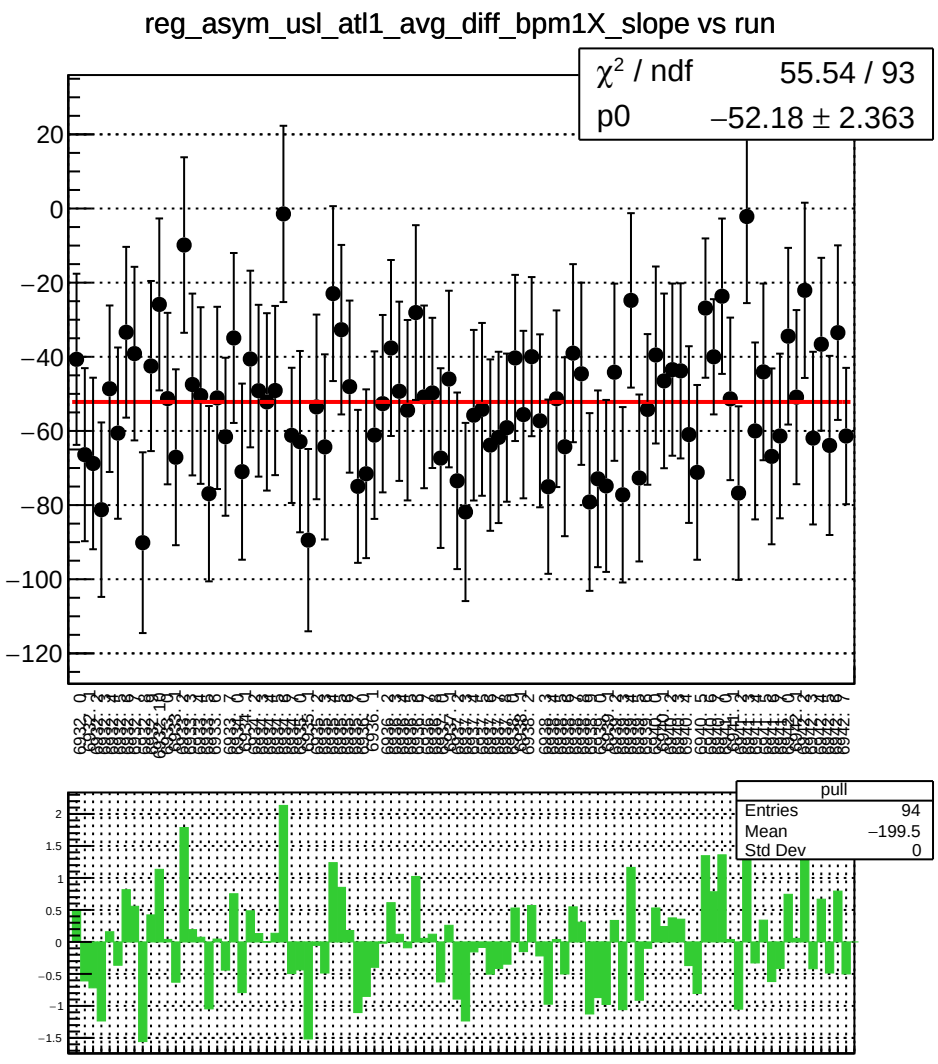

pull1D
Entries 94
Mean −0.005229
Std Dev 0.7461

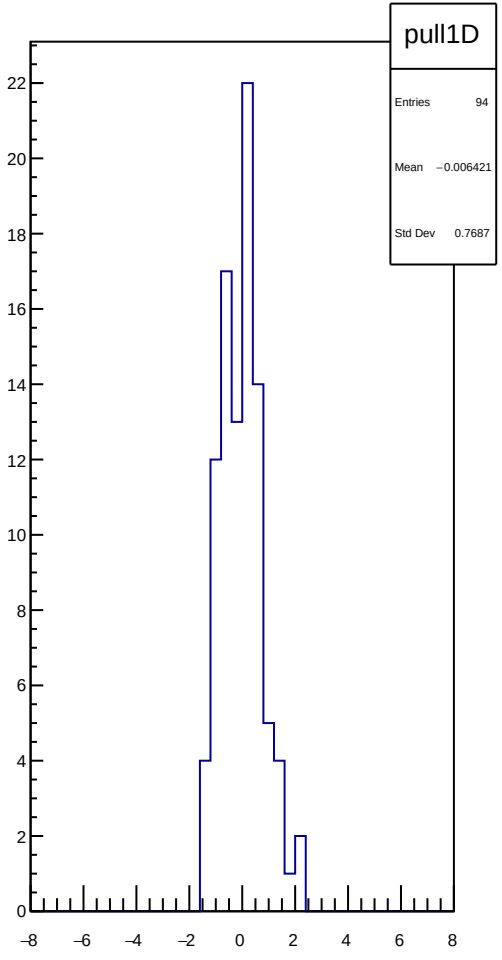

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.41 / 93
p0 42.5 ± 1.603
pull
Entries 94
Mean 2393
Std Dev 0

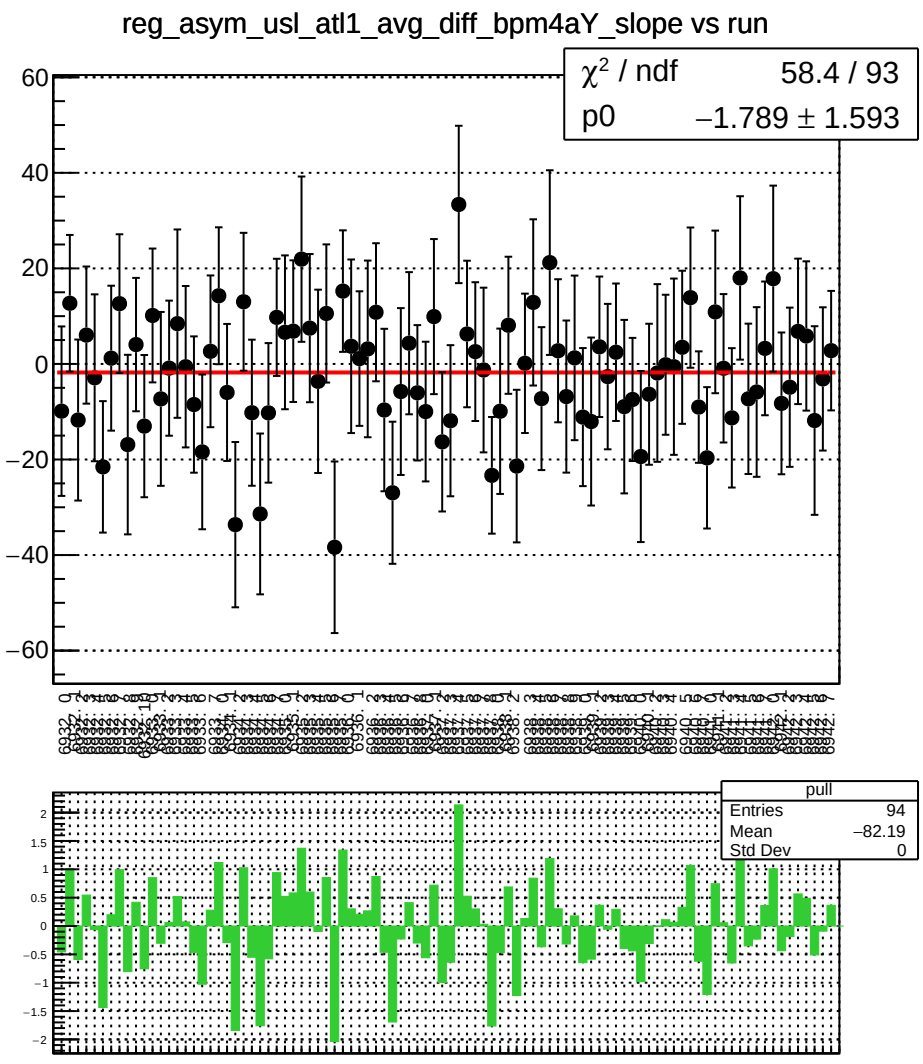

pull1D
Entries 94
Mean −0.00208
Std Dev 1.002

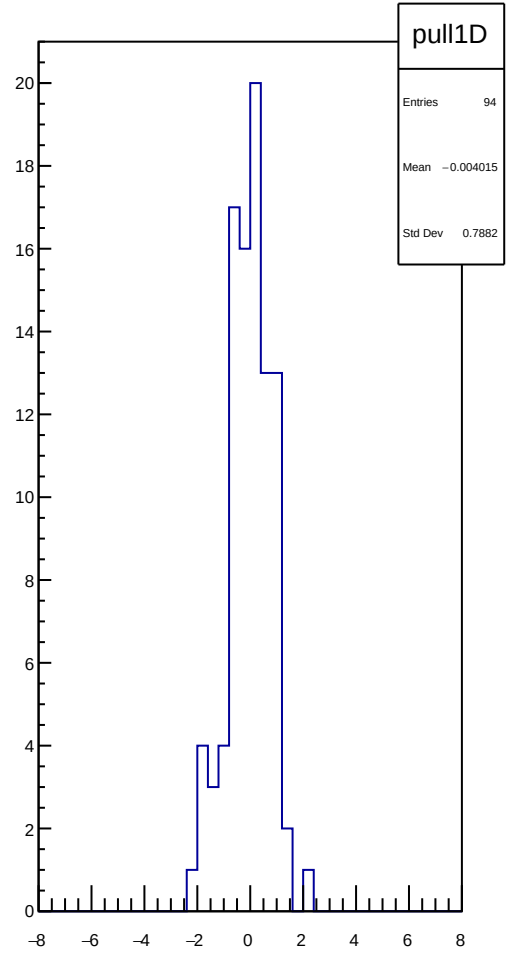

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 52.88 / 93
p0 −2.961± 1.346
pull
Entries 94
Mean −112.9
Std Dev 0
pull1D
Entries 94
Mean 0.002746
Std Dev 0.7501

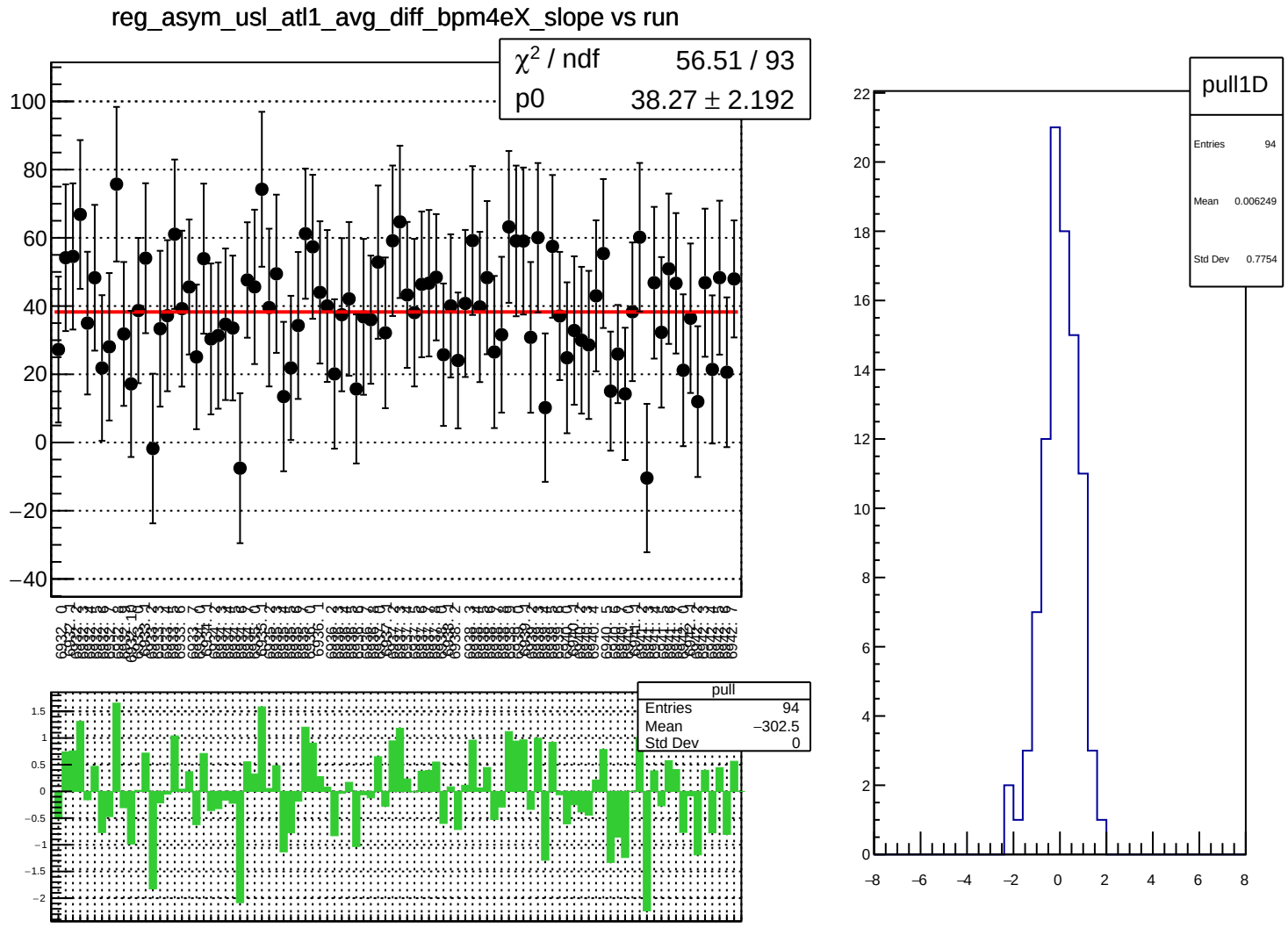

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 77.95 / 93
p0 7.592 ± 0.05437
pull
Entries 94
Mean −714
Std Dev 0
pull1D
Entries 94
Mean 0.007589
Std Dev 0.9106

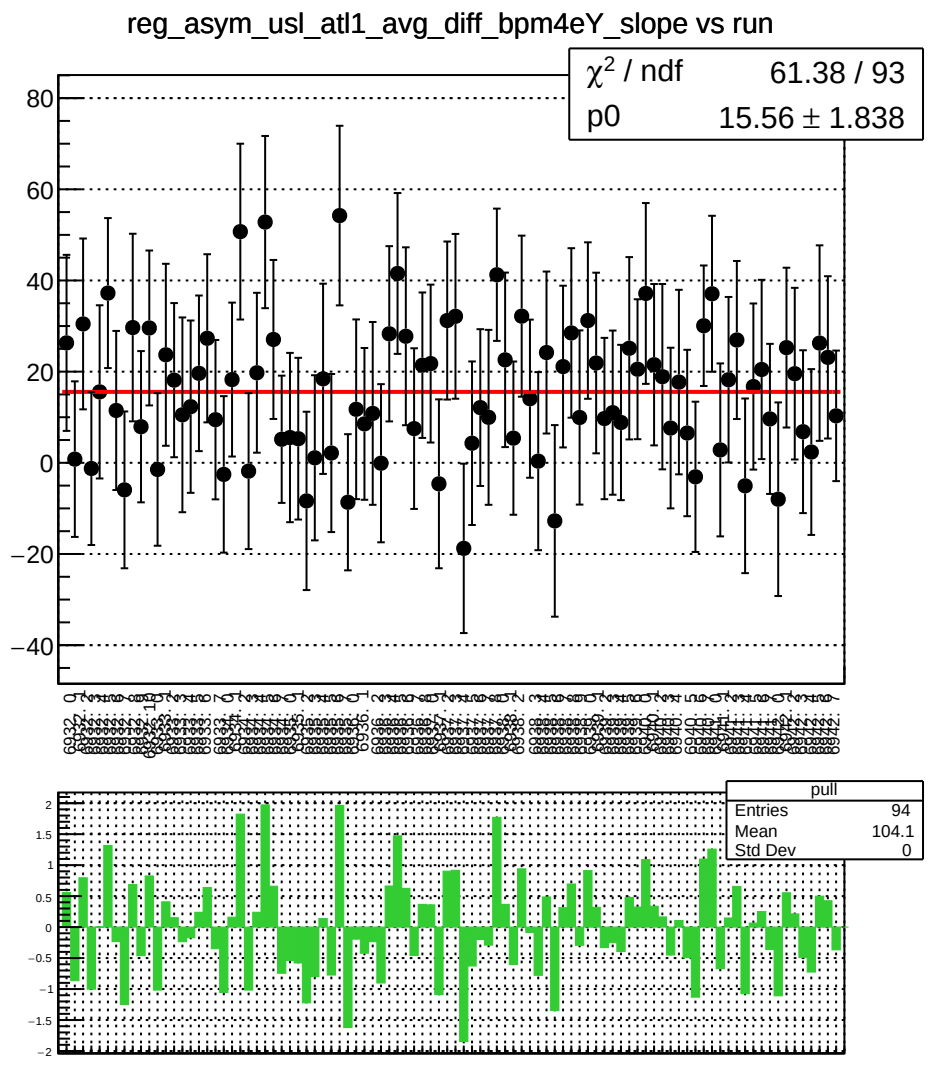

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 55.54 / 93
p0 −52.18 ± 2.363
pull
Entries 94
Mean −199.5
Std Dev 0

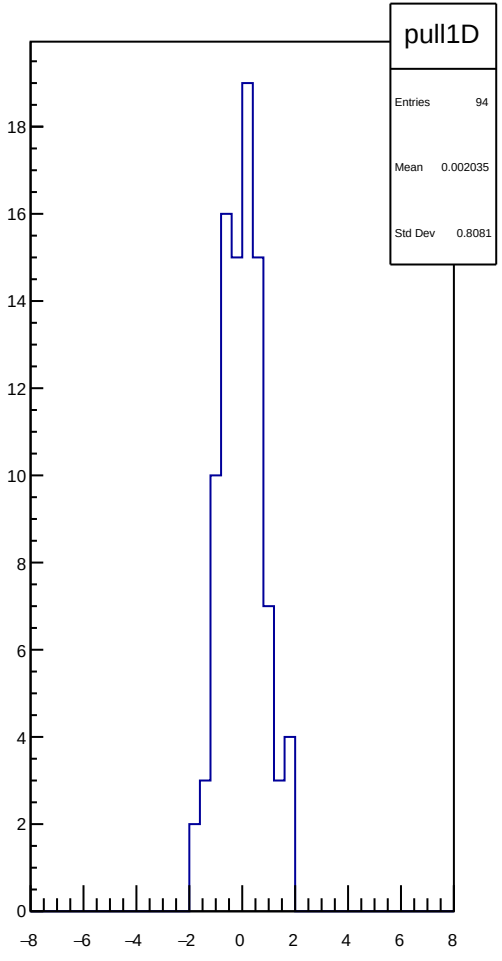

pull1D
Entries 94
Mean −0.006421
Std Dev 0.7687

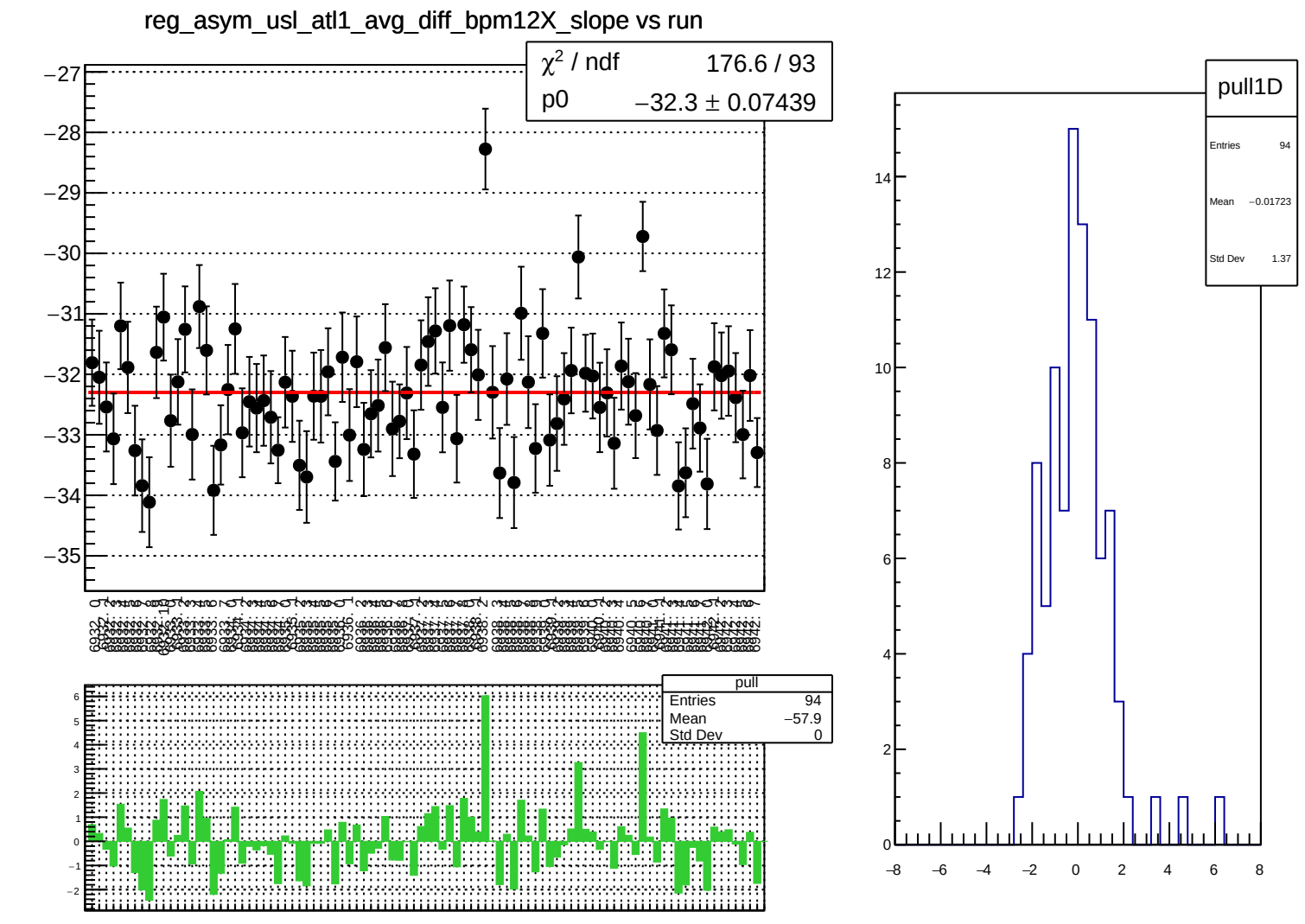

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.4 / 93
p0 −1.789 ± 1.593
pull
Entries 94
Mean −82.19
Std Dev 0

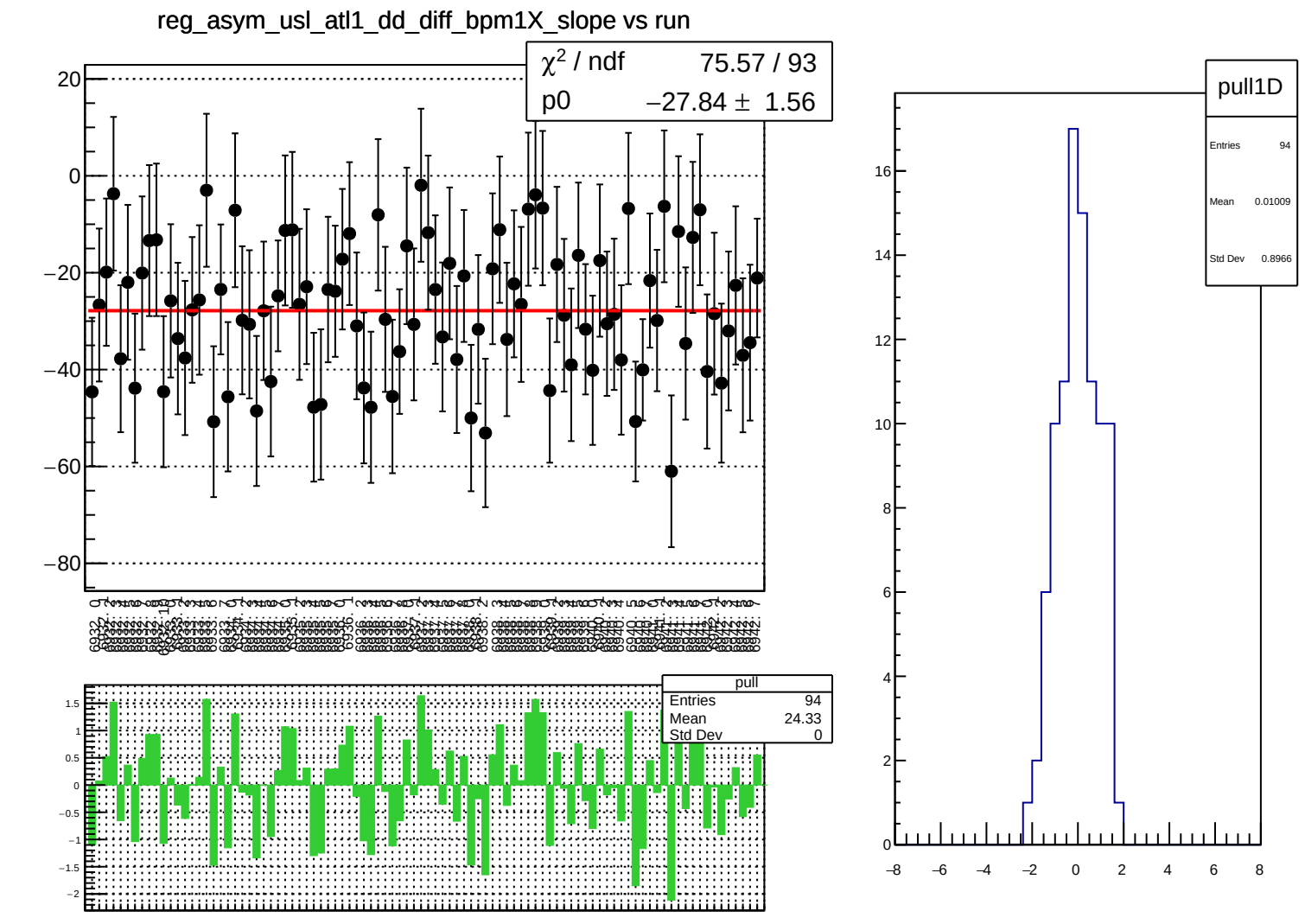

pull1D
Entries 94
Mean −0.004015
Std Dev 0.7882

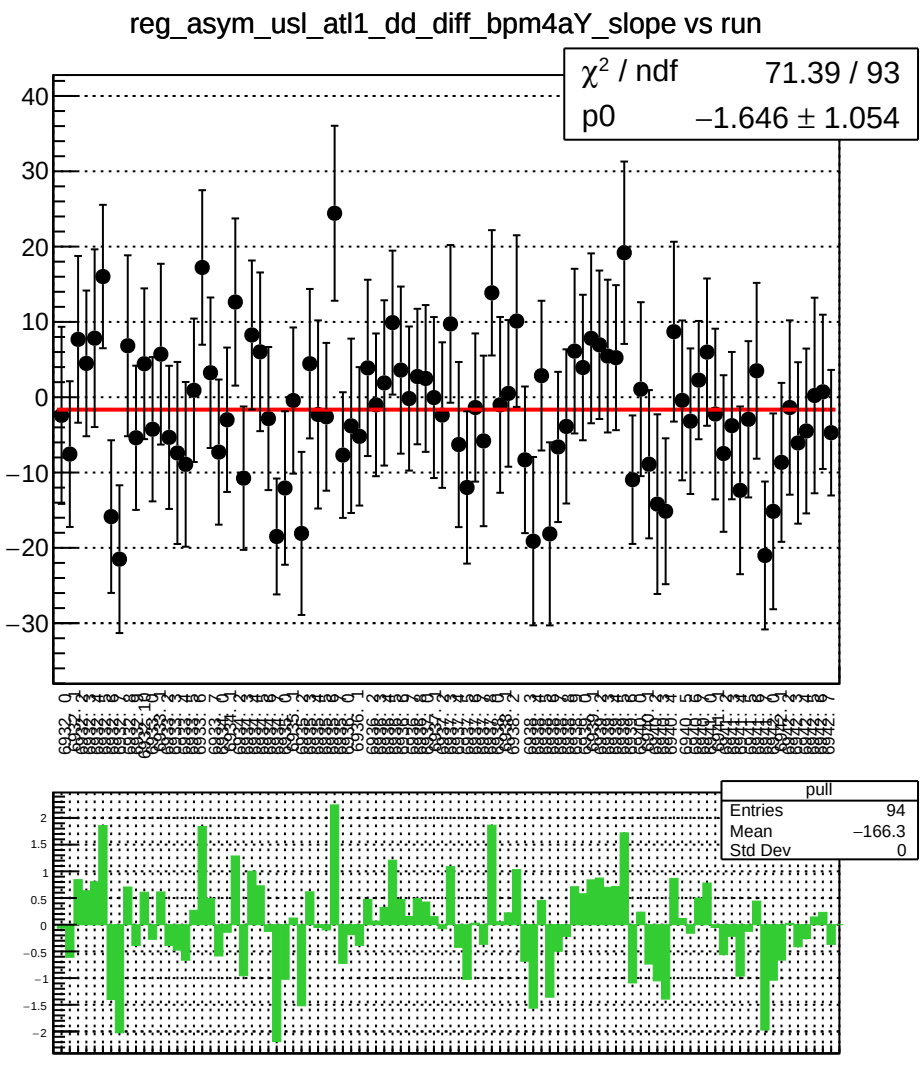

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.51 / 93
p0 38.27 ± 2.192
pull
Entries 94
Mean −302.5
Std Dev 0
pull1D
Entries 94
Mean 0.006249
Std Dev 0.7754

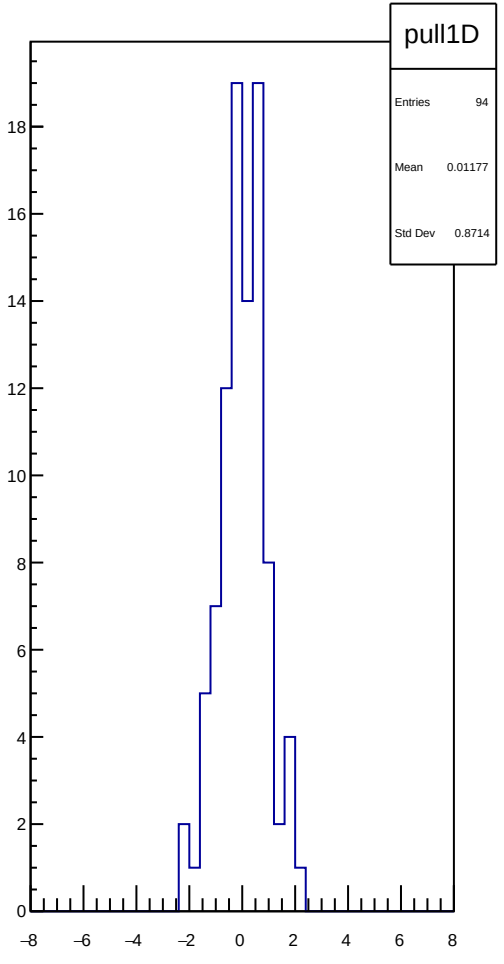

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.38 / 93
p0 15.56 ± 1.838
pull
Entries 94
Mean 104.1
Std Dev 0

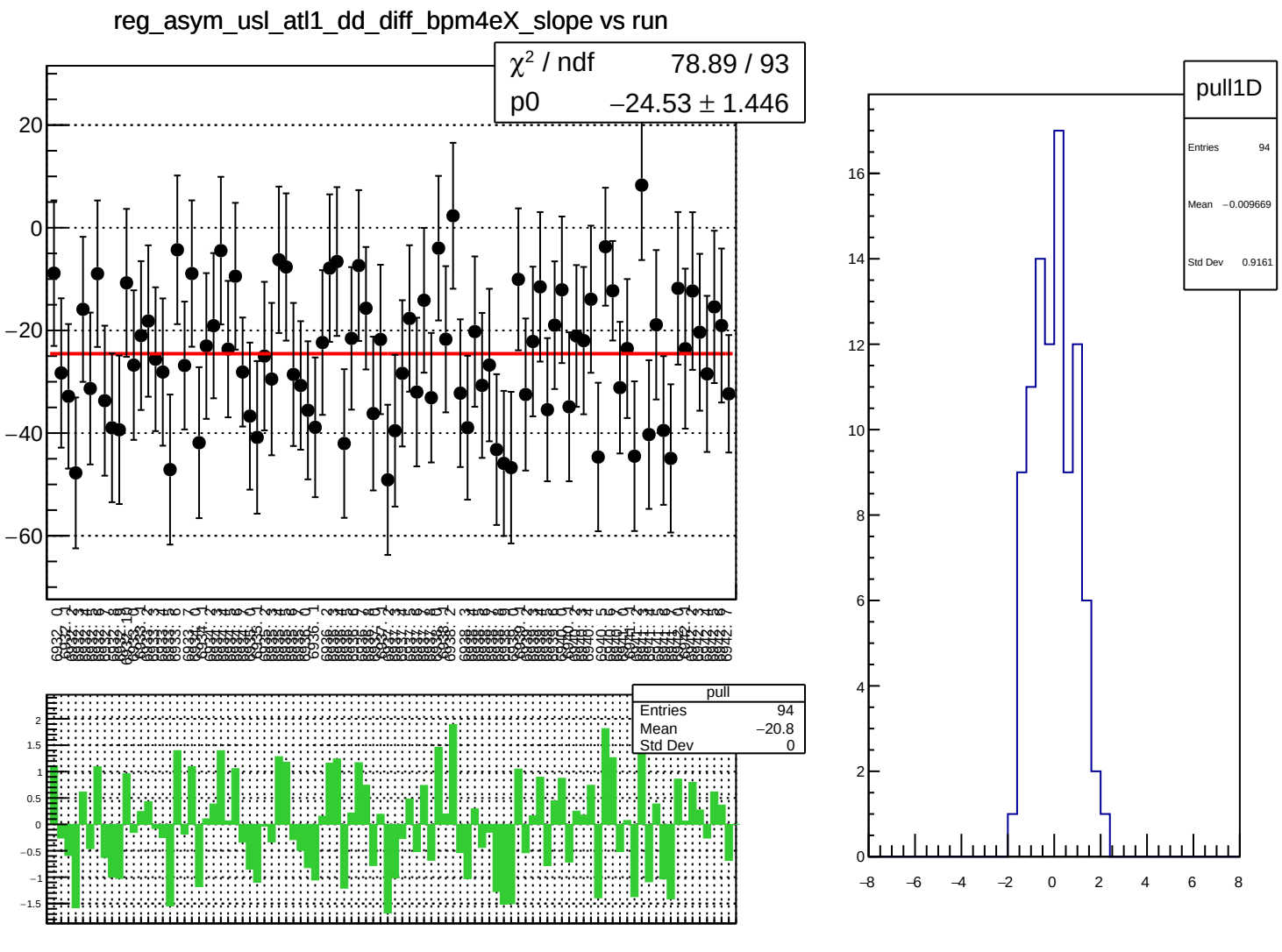

pull1D
Entries 94
Mean 0.002035
Std Dev 0.8081

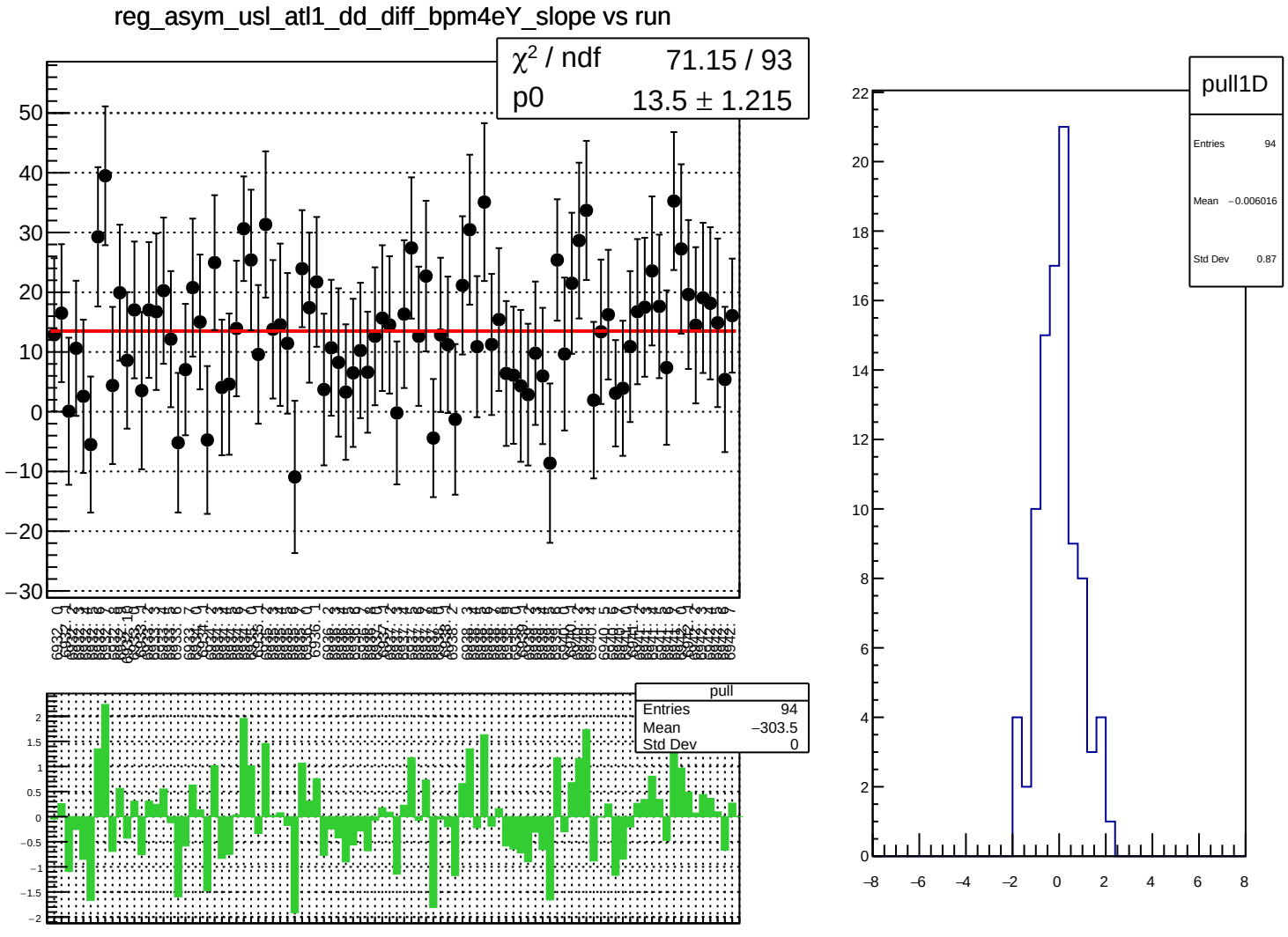

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 176.6 / 93
p0 −32.3 ± 0.07439
pull
Entries 94
Mean −57.9
Std Dev 0
pull1D
Entries 94
Mean −0.01723
Std Dev 1.37

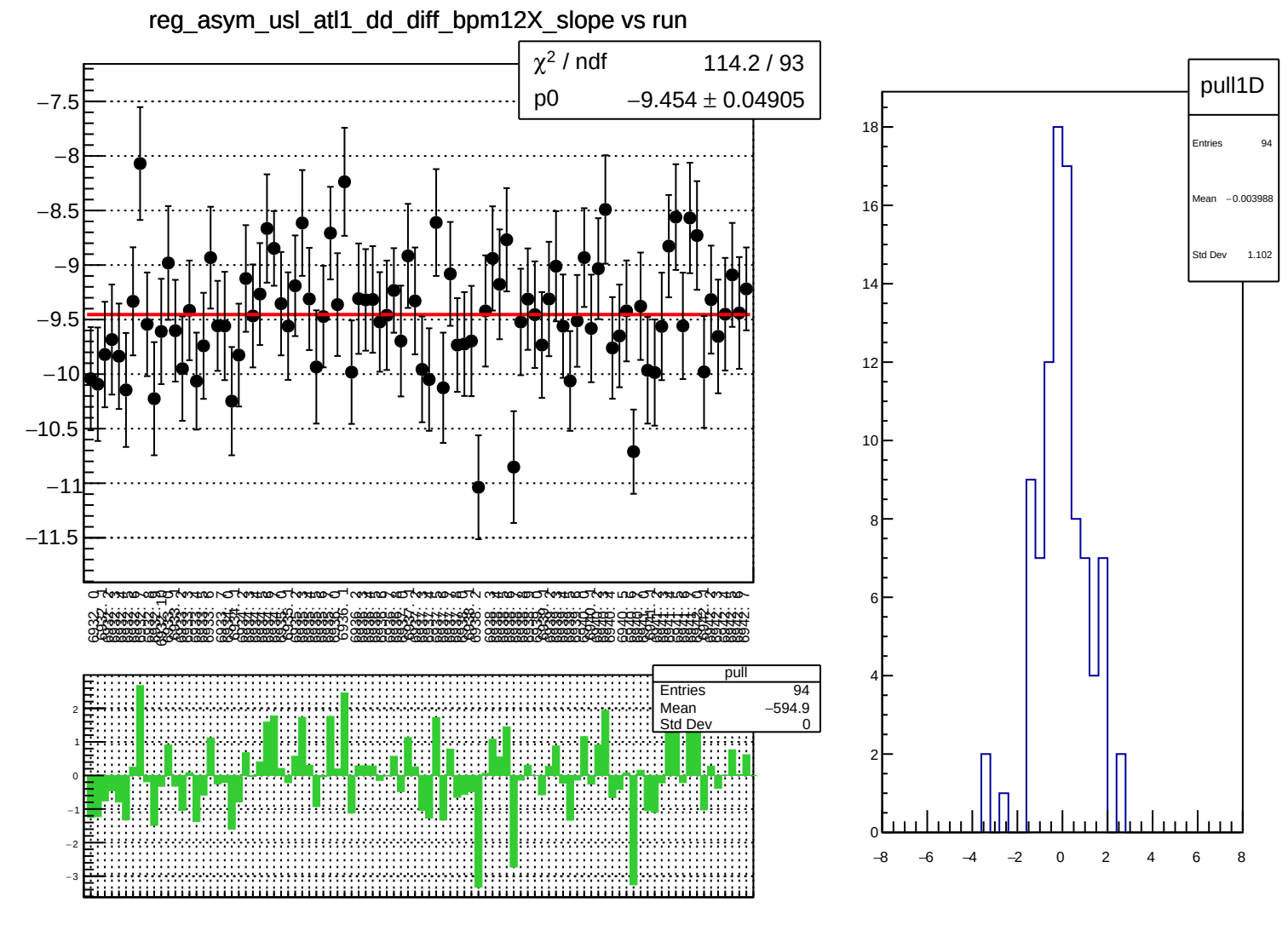

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 75.57 / 93
p0 −27.84 ± 1.56
pull
Entries 94
Mean 24.33
Std Dev 0
pull1D
Entries 94
Mean 0.01009
Std Dev 0.8966

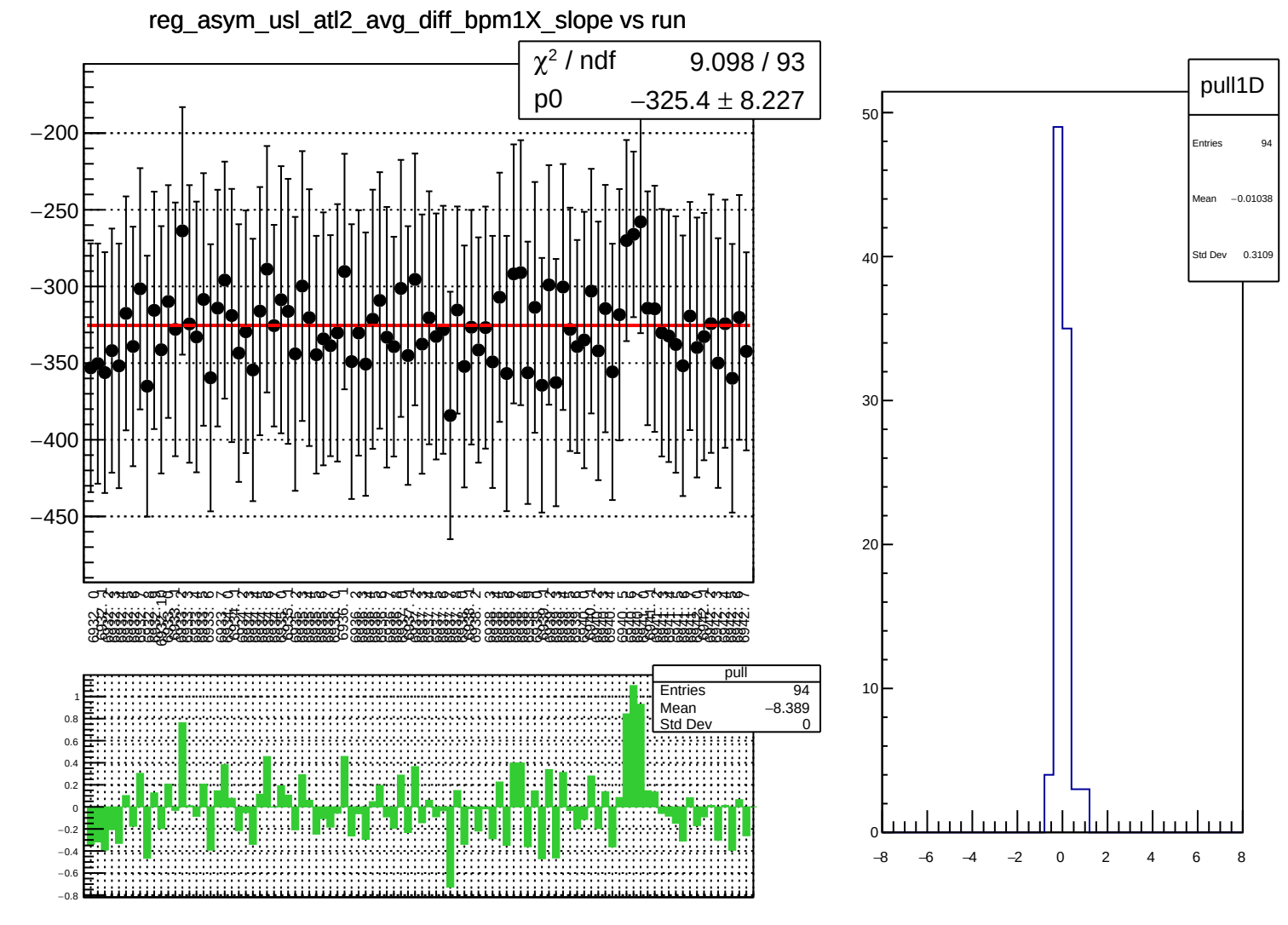

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.39 / 93
p0 −1.646 ± 1.054
pull
Entries 94
Mean −166.3
Std Dev 0

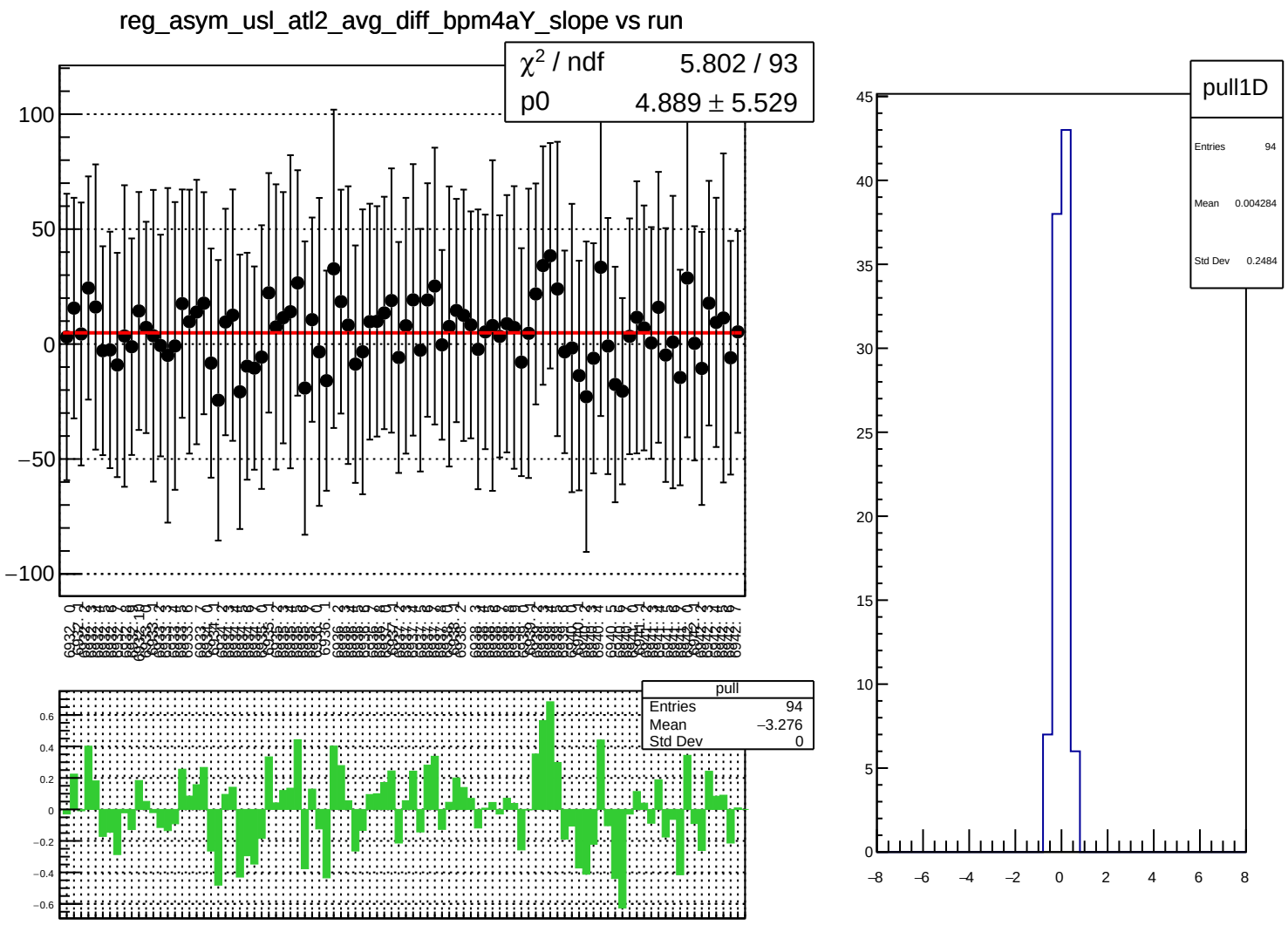

pull1D
Entries 94
Mean 0.01177
Std Dev 0.8714

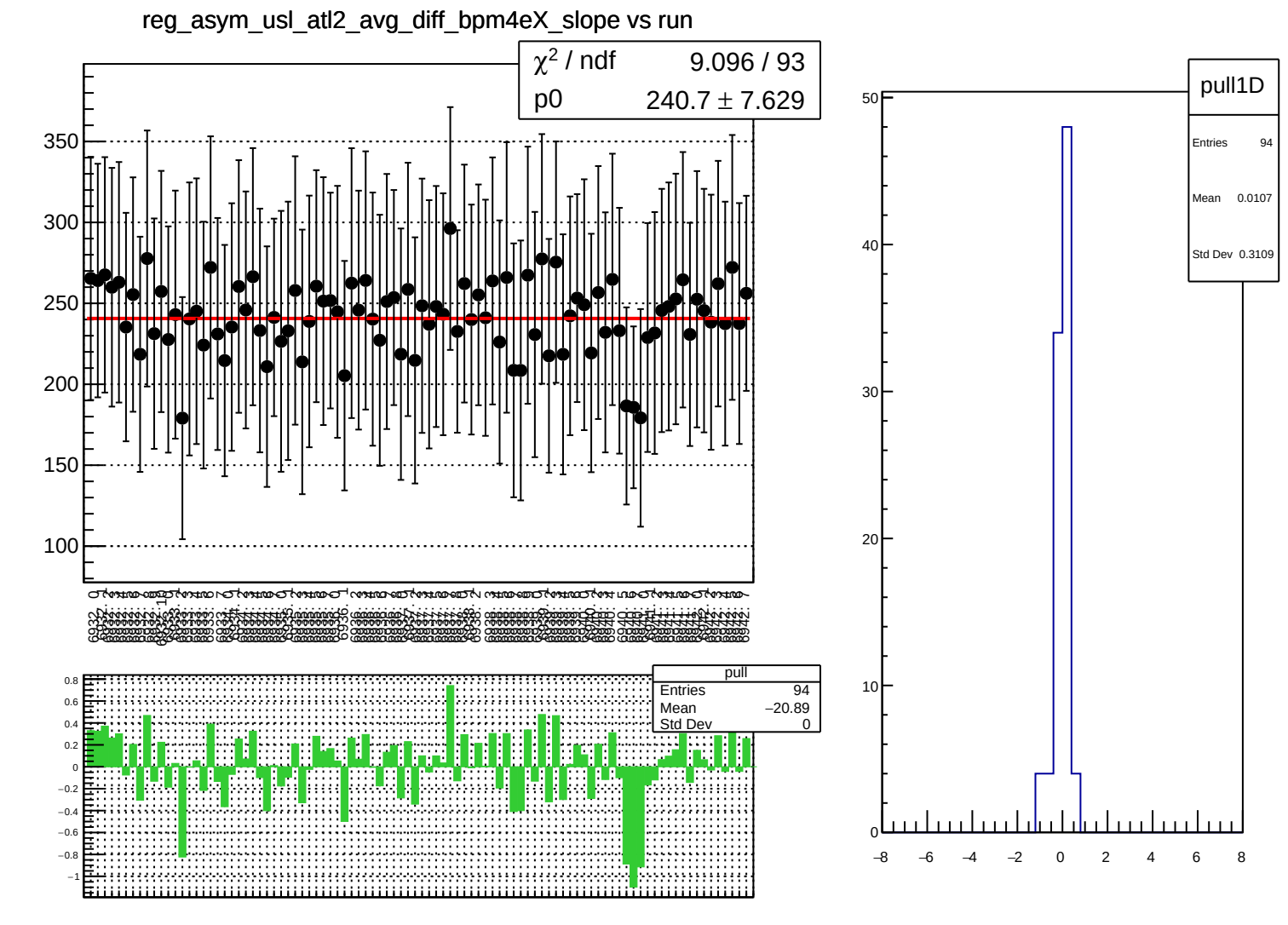

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.89 / 93
p0 −24.53 ± 1.446
pull
Entries 94
Mean −20.8
Std Dev 0
pull1D
Entries 94
Mean −0.009669
Std Dev 0.9161

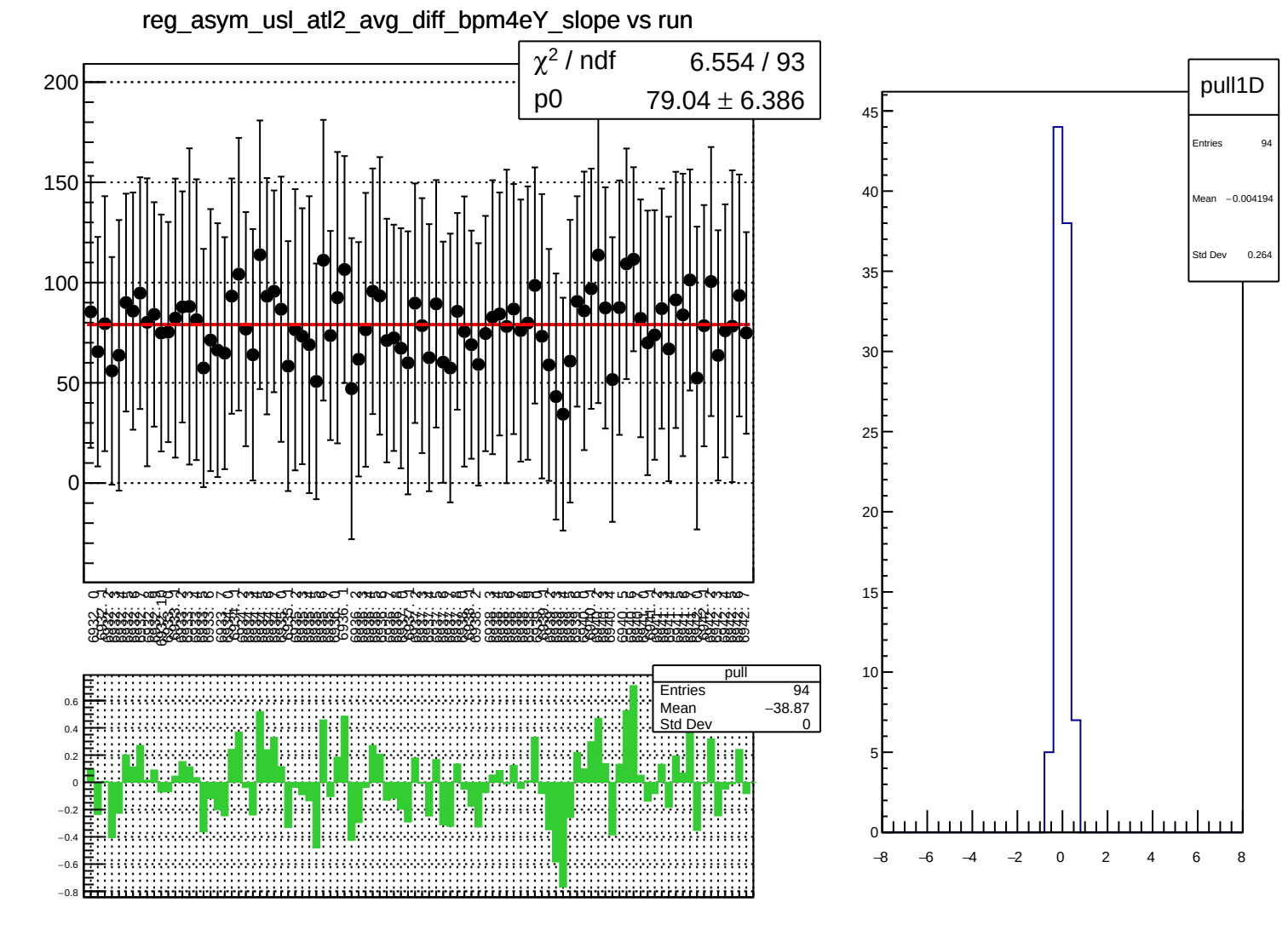

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.15 / 93
p0 13.5 ± 1.215
pull
Entries 94
Mean −303.5
Std Dev 0
pull1D
Entries 94
Mean −0.006016
Std Dev 0.87

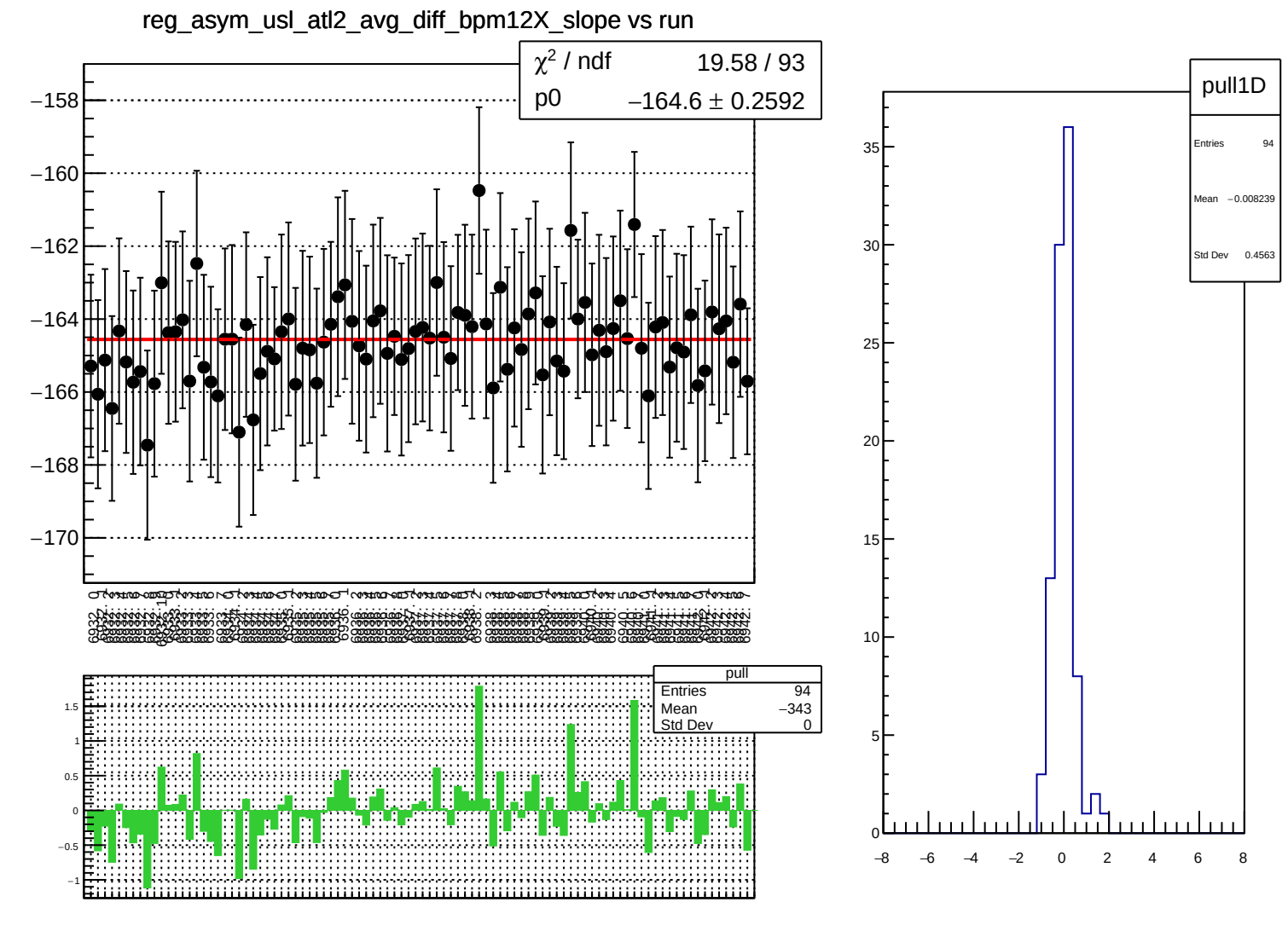

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 93
p0 −9.454 ± 0.04905
pull
Entries 94
Mean −594.9
Std Dev 0
pull1D
Entries 94
Mean −0.003988
Std Dev 1.102

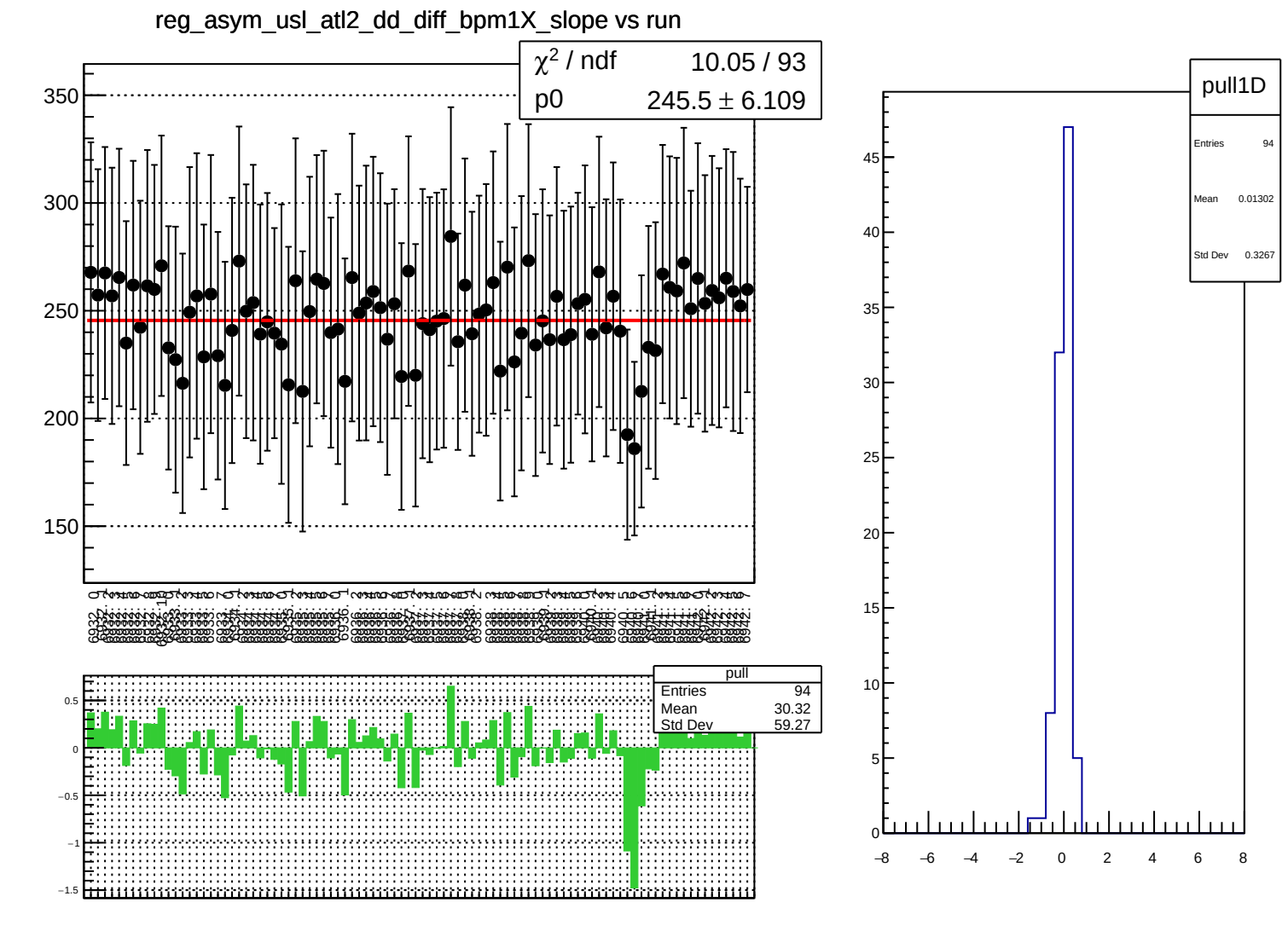

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 9.098 / 93
p0 −325.4 ± 8.227
−200
−250
−300
−350
−400
−450
pull
Entries 94
Mean −8.389
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.01038
Std Dev 0.3109
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

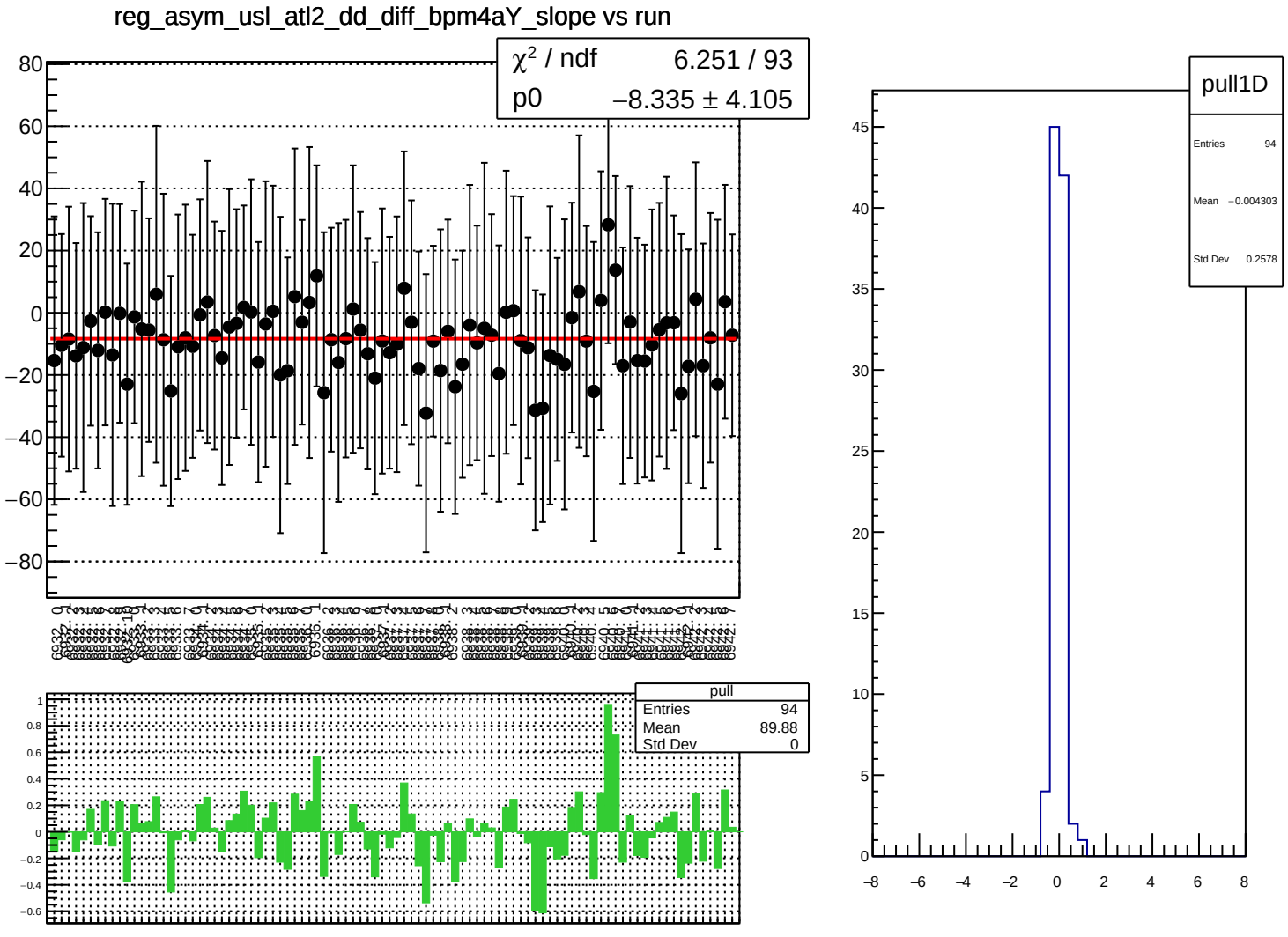

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.802 / 93
p0 4.889 ± 5.529
100
50
0
−50
−100
pull
Entries 94
Mean −3.276
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.004284
Std Dev 0.2484
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

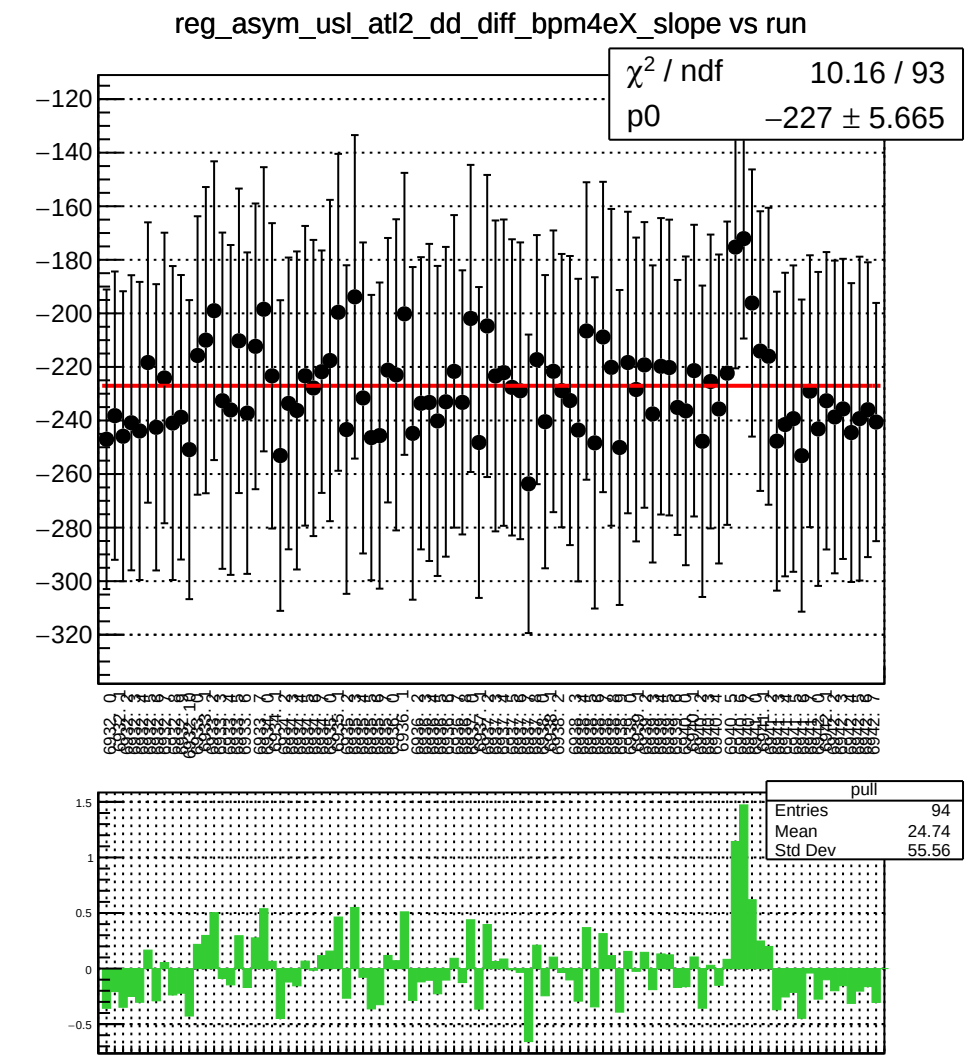

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.096 / 93
p0 240.7 ± 7.629
pull
Entries 94
Mean −20.89
Std Dev 0
pull1D
Entries 94
Mean 0.0107
Std Dev 0.3109

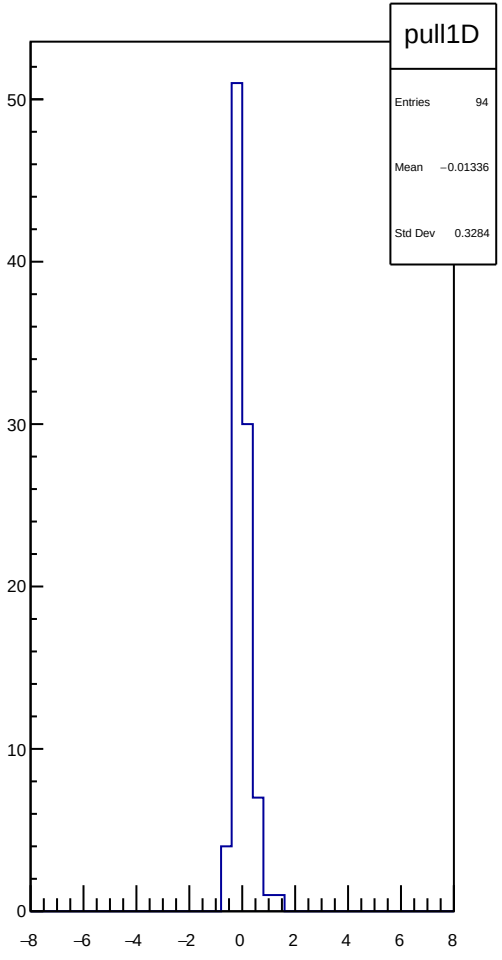

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.554 / 93
p0 79.04 ± 6.386
200
150
100
50
0
pull
Entries 94
Mean −38.87
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.004194
Std Dev 0.264
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

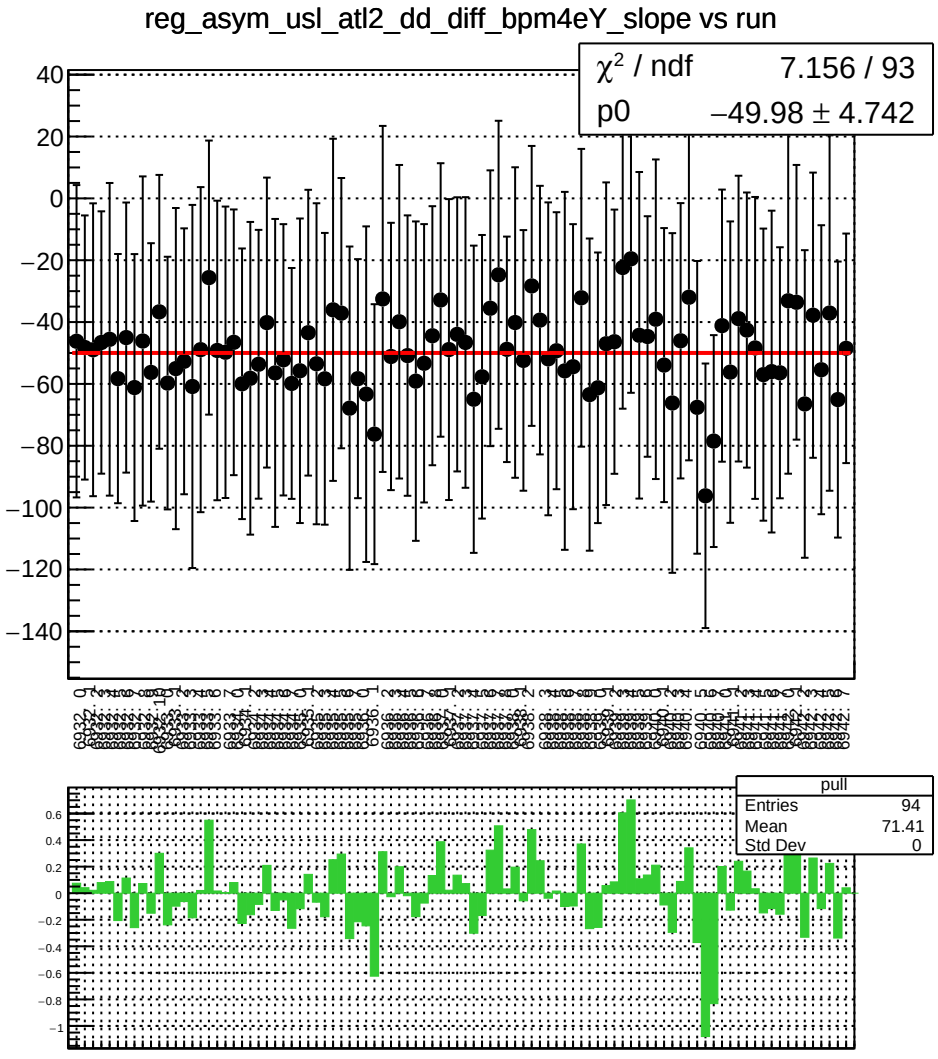

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.58 / 93
p0 −164.6 ± 0.2592
−158
−160
−162
−164
−166
−168
−170
pull
Entries 94
Mean −343
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.008239
Std Dev 0.4563
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

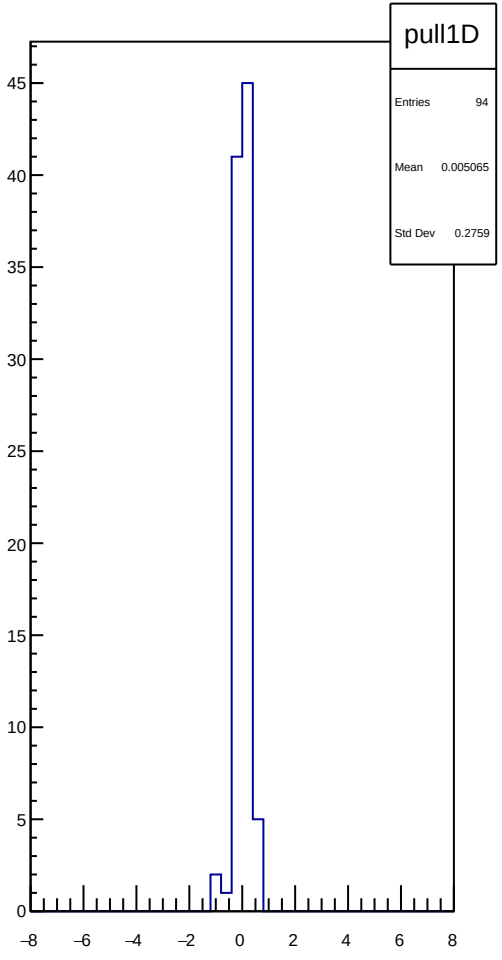

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 10.05 / 93
p0 245.5 ± 6.109
350
300
250
200
150
pull
Entries 94
Mean 30.32
Std Dev 59.27
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01302
Std Dev 0.3267
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

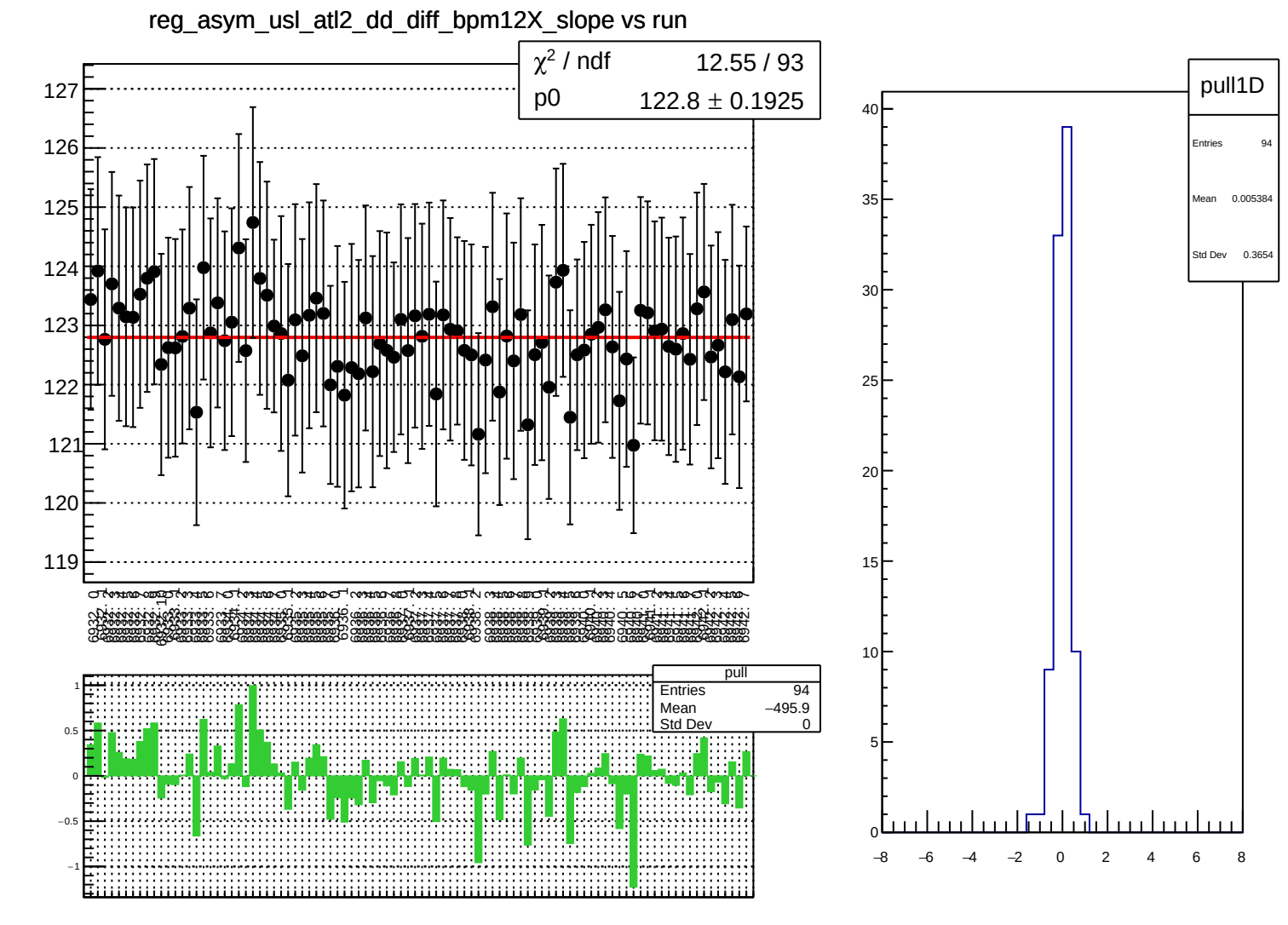

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.251 / 93
p0 −8.335 ± 4.105
pull
Entries 94
Mean 89.88
Std Dev 0
pull1D
Entries 94
Mean −0.004303
Std Dev 0.2578

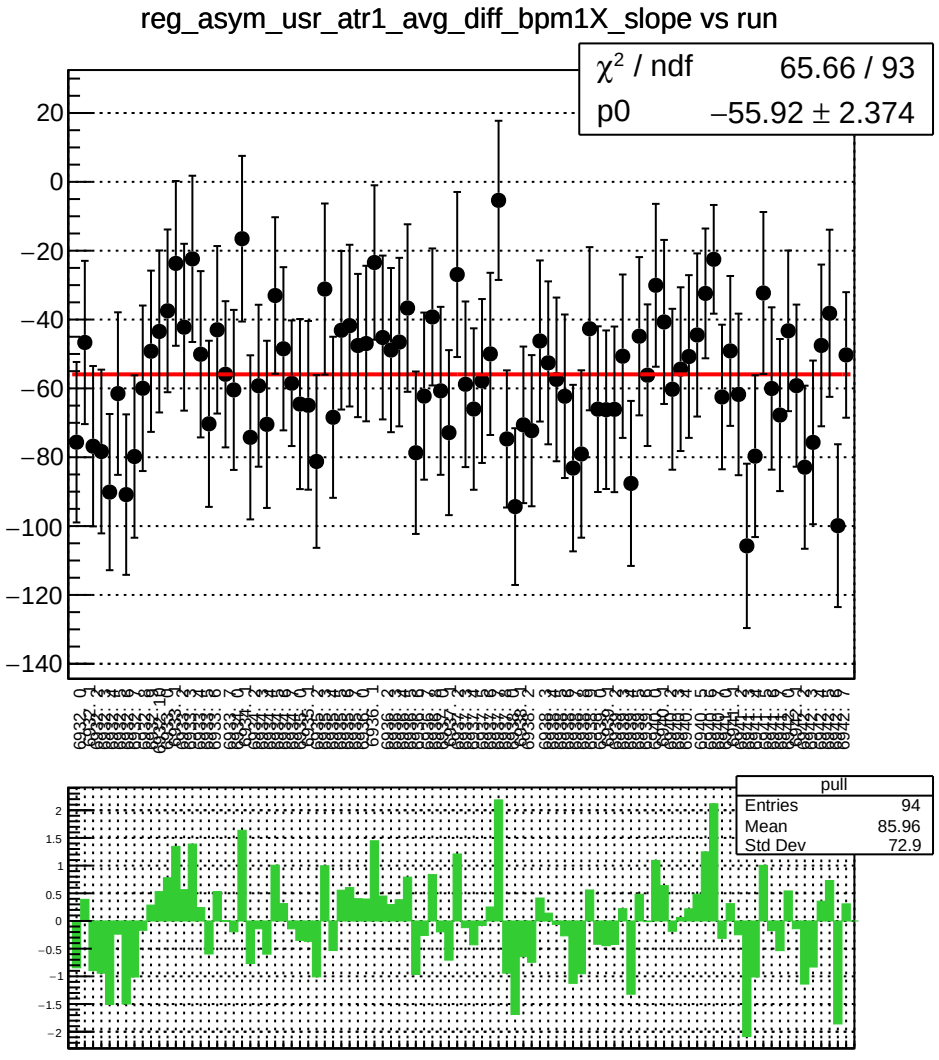

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.16 / 93
p0 −227 ± 5.665
pull
Entries 94
Mean 24.74
Std Dev 55.56

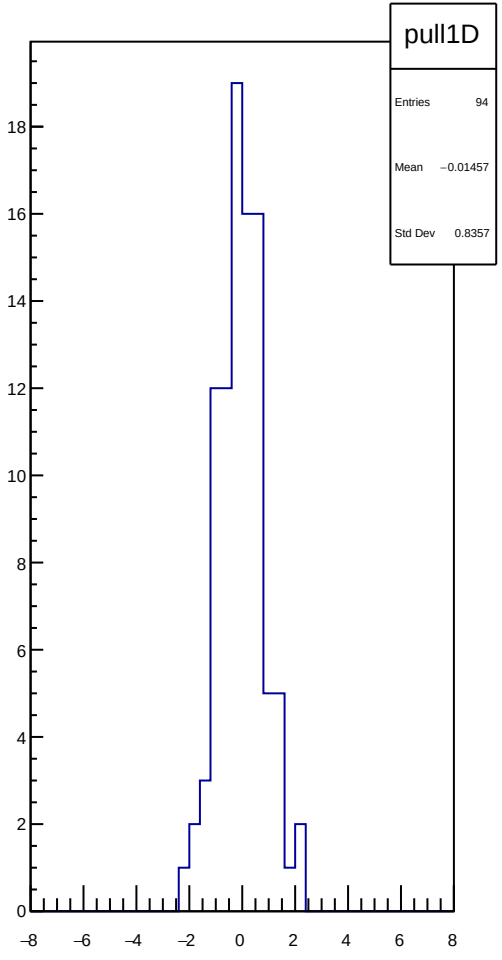

pull1D
Entries 94
Mean −0.01336
Std Dev 0.3284

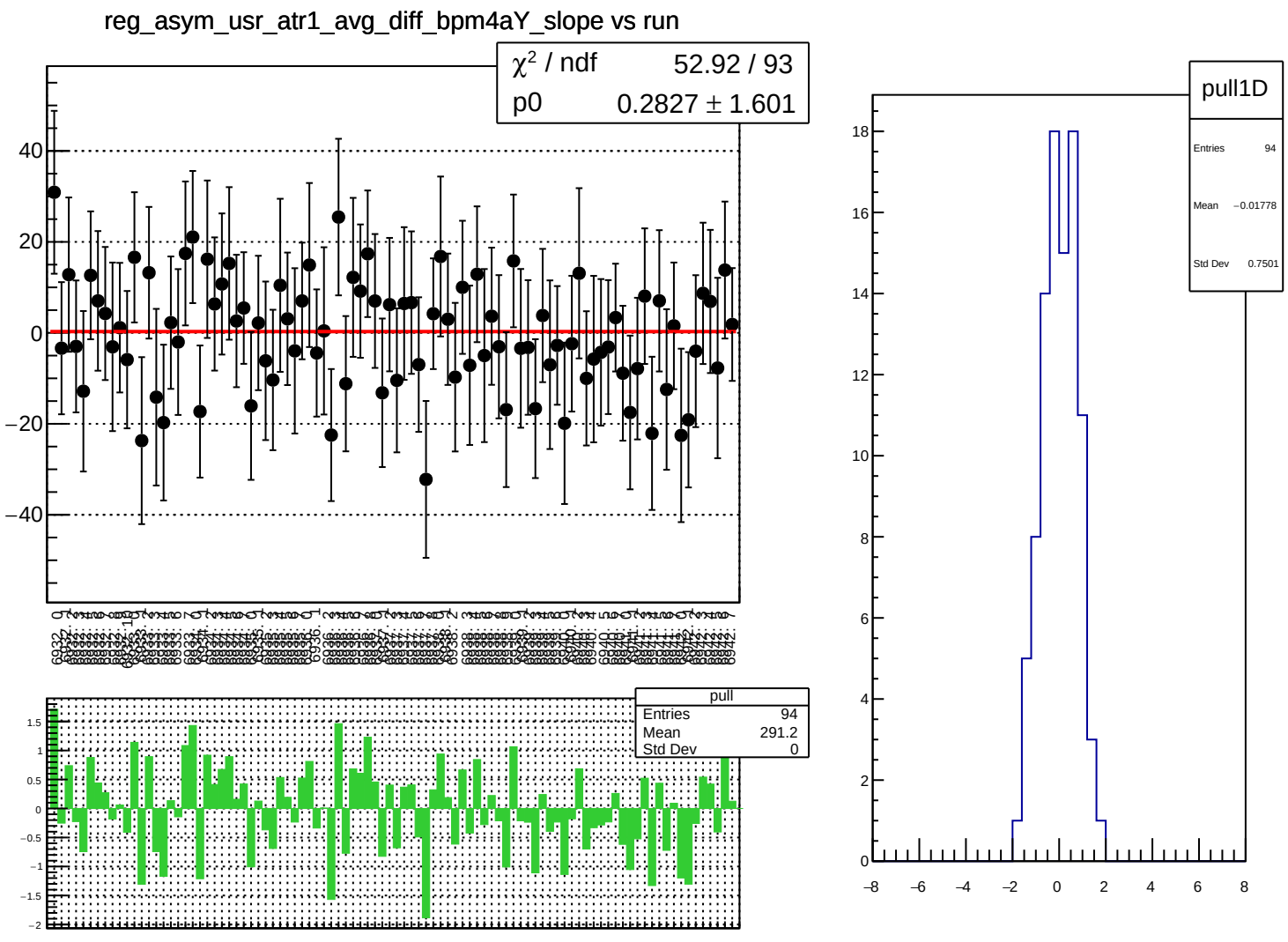

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.156 / 93
p0 −49.98 ± 4.742
pull
Entries 94
Mean 71.41
Std Dev 0

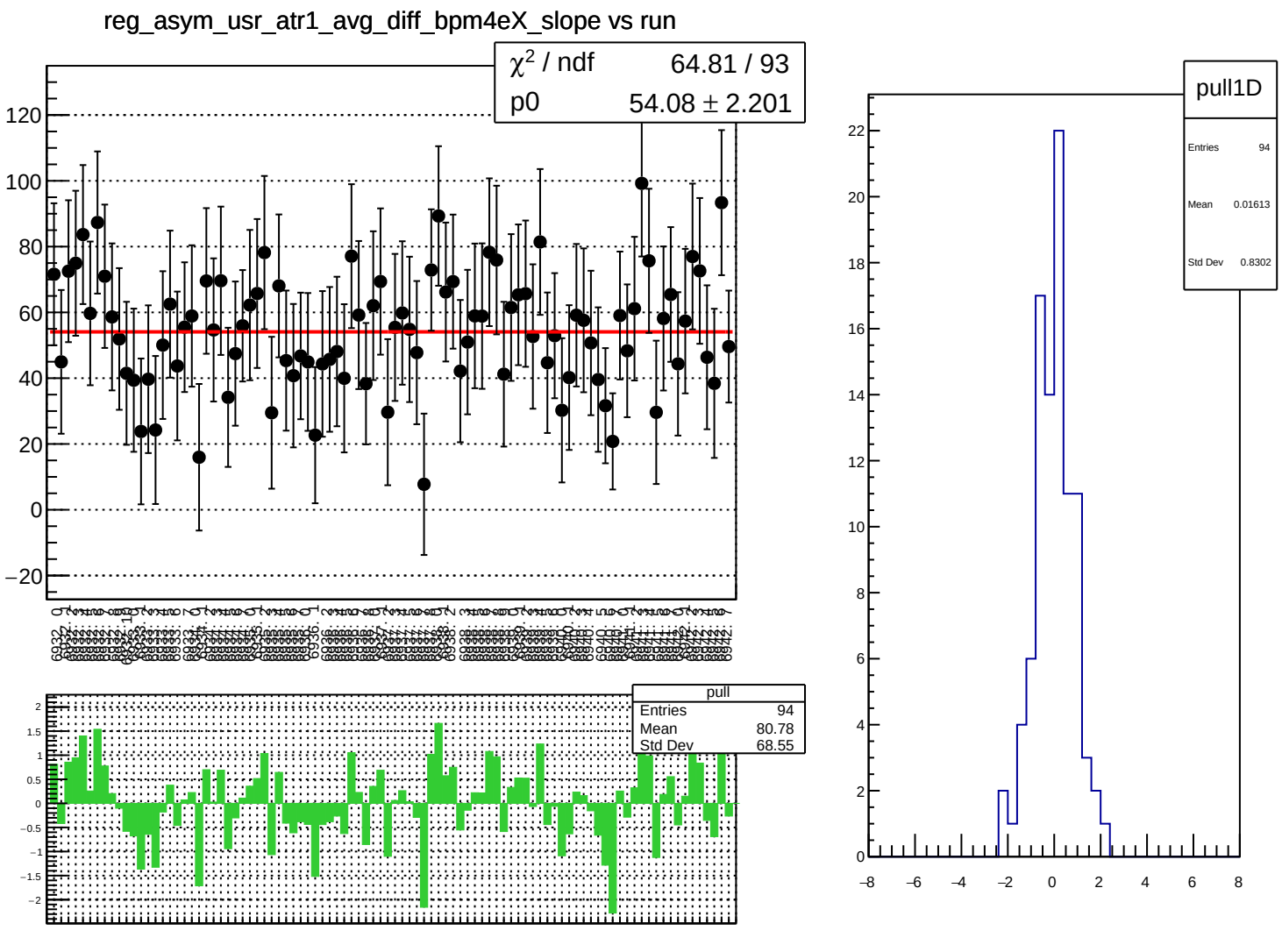

pull1D
Entries 94
Mean 0.005065
Std Dev 0.2759

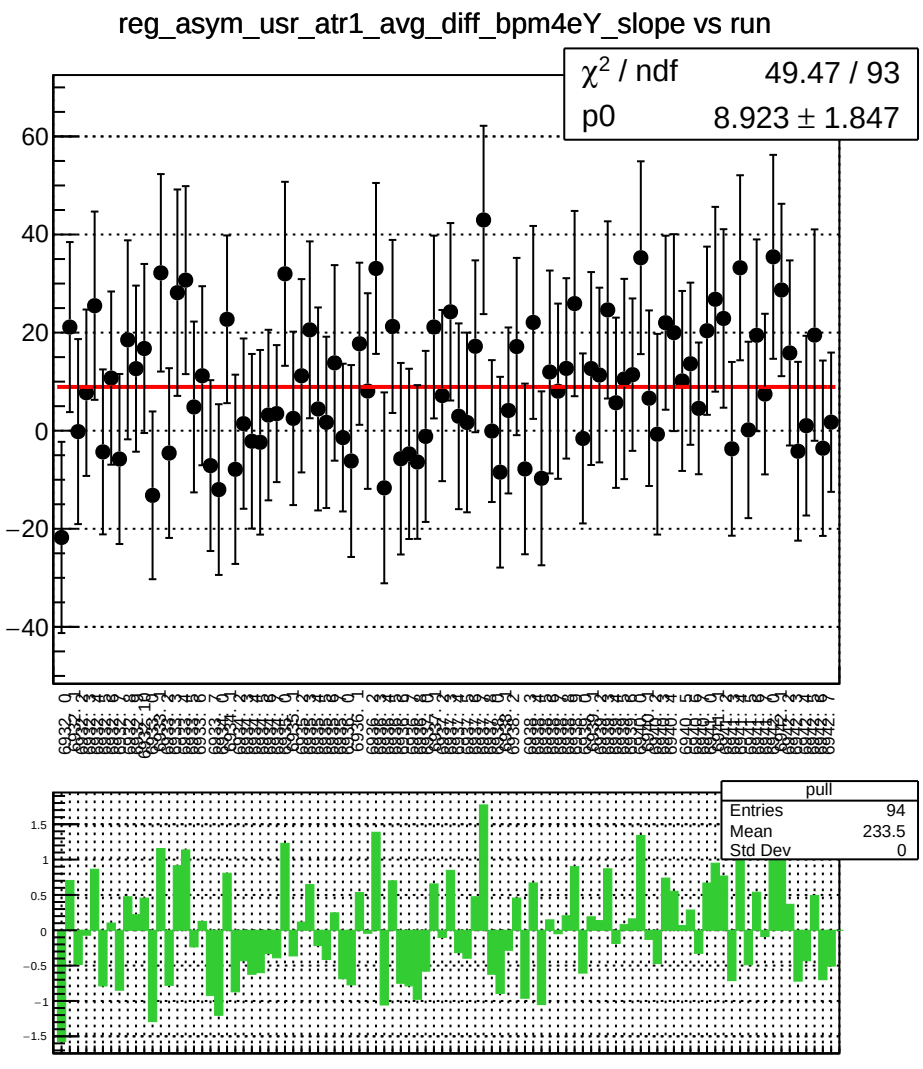

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 12.55 / 93
p0 122.8 ± 0.1925
127
126
125
124
123
122
121
120
119
pull
Entries 94
Mean −495.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.005384
Std Dev 0.3654
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

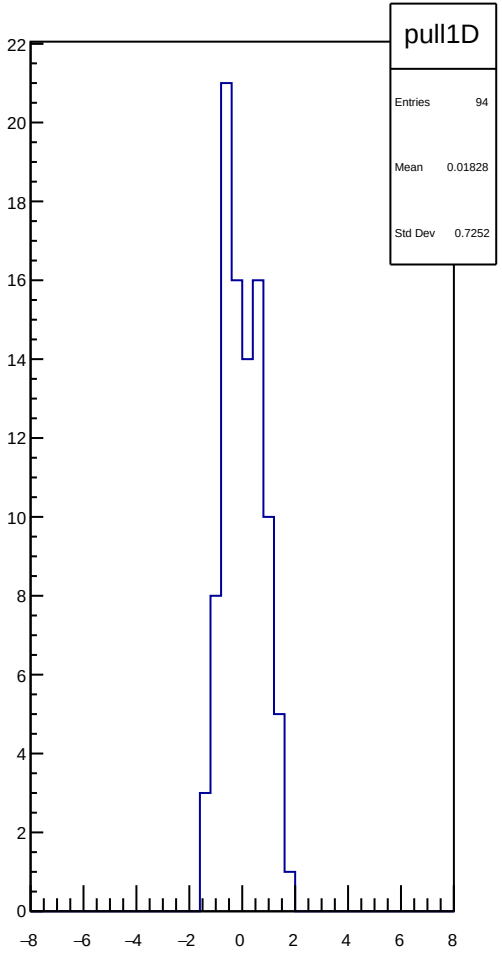

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 65.66 / 93
p0 −55.92 ± 2.374
pull
Entries 94
Mean 85.96
Std Dev 72.9

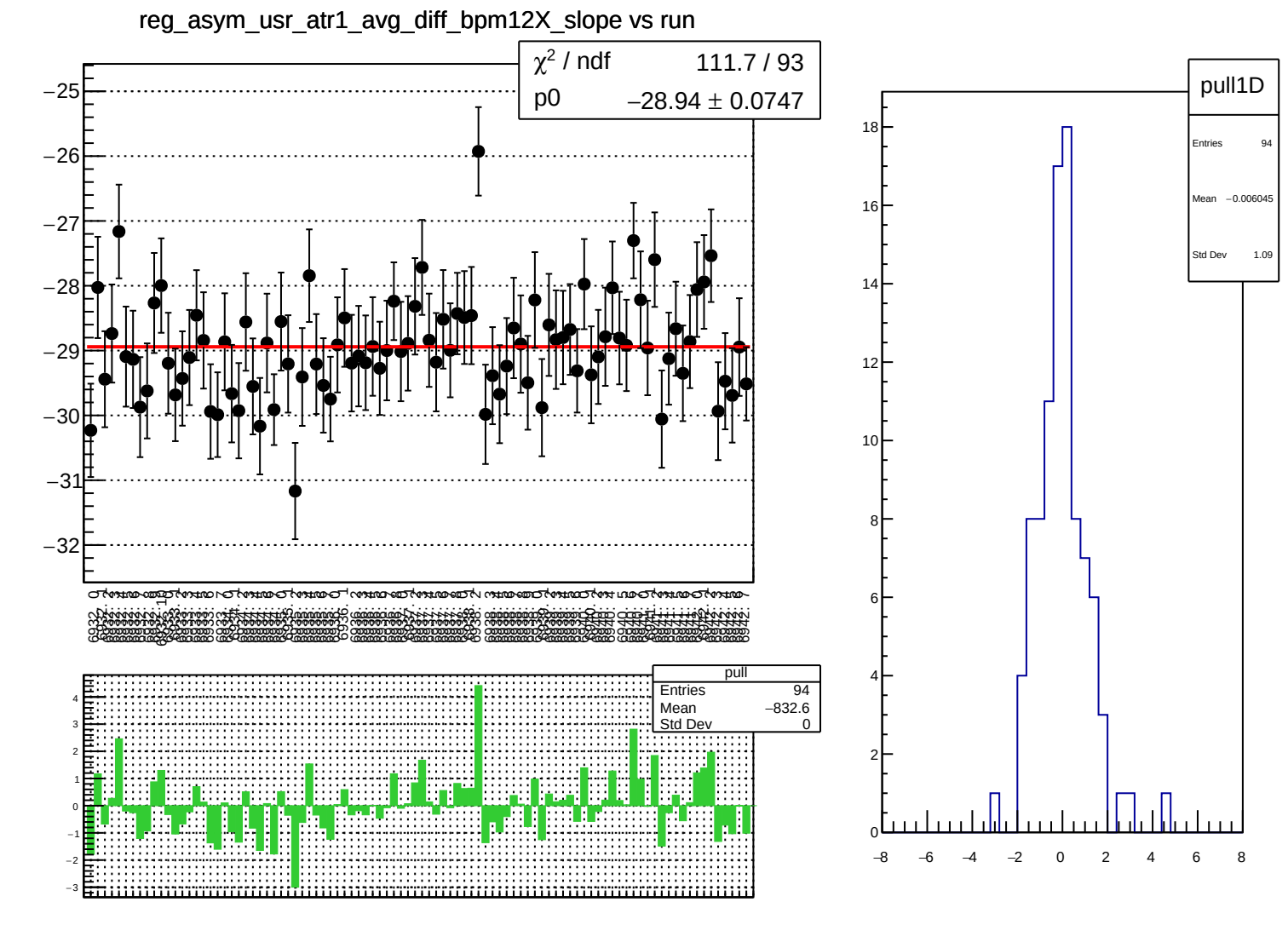

pull1D
Entries 94
Mean −0.01457
Std Dev 0.8357

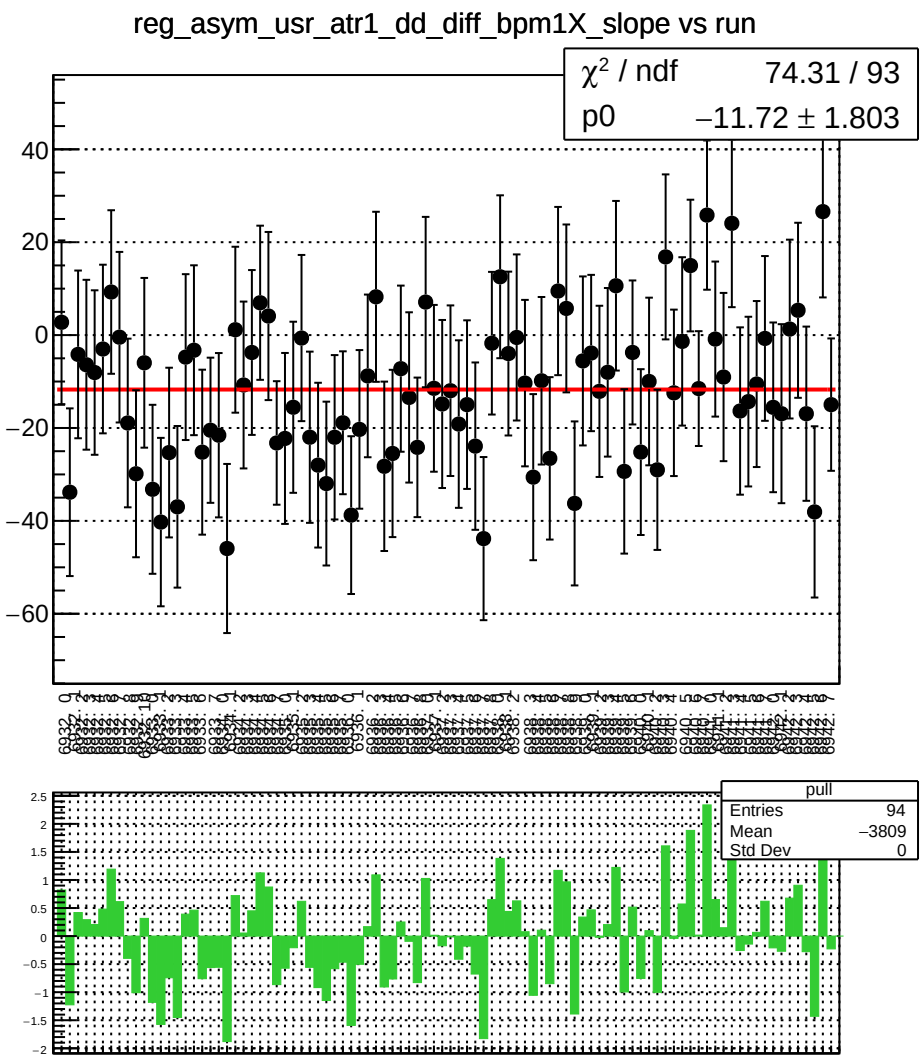

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.92 / 93
p0 0.2827 ± 1.601
40
20
0
−20
−40
pull
Entries 94
Mean 291.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.01778
Std Dev 0.7501
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

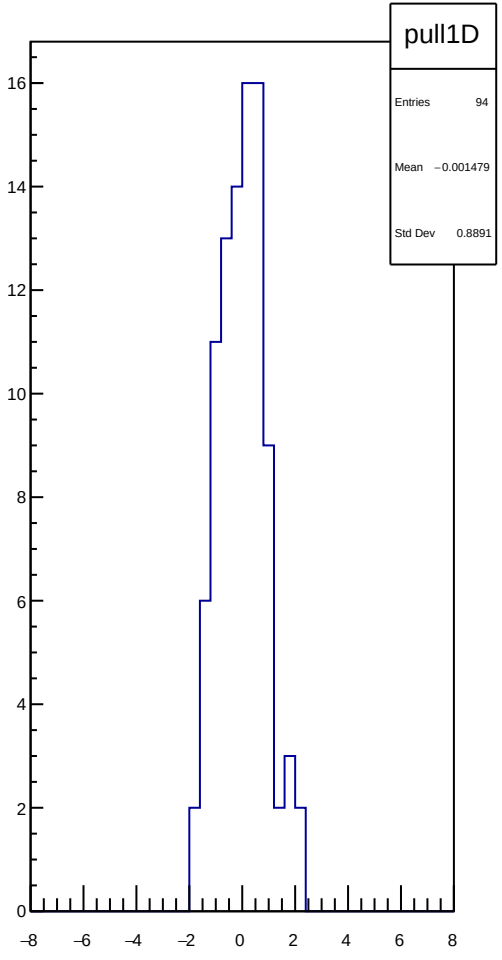

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.81 / 93
p0 54.08 ± 2.201
pull
Entries 94
Mean 80.78
Std Dev 68.55
pull1D
Entries 94
Mean 0.01613
Std Dev 0.8302

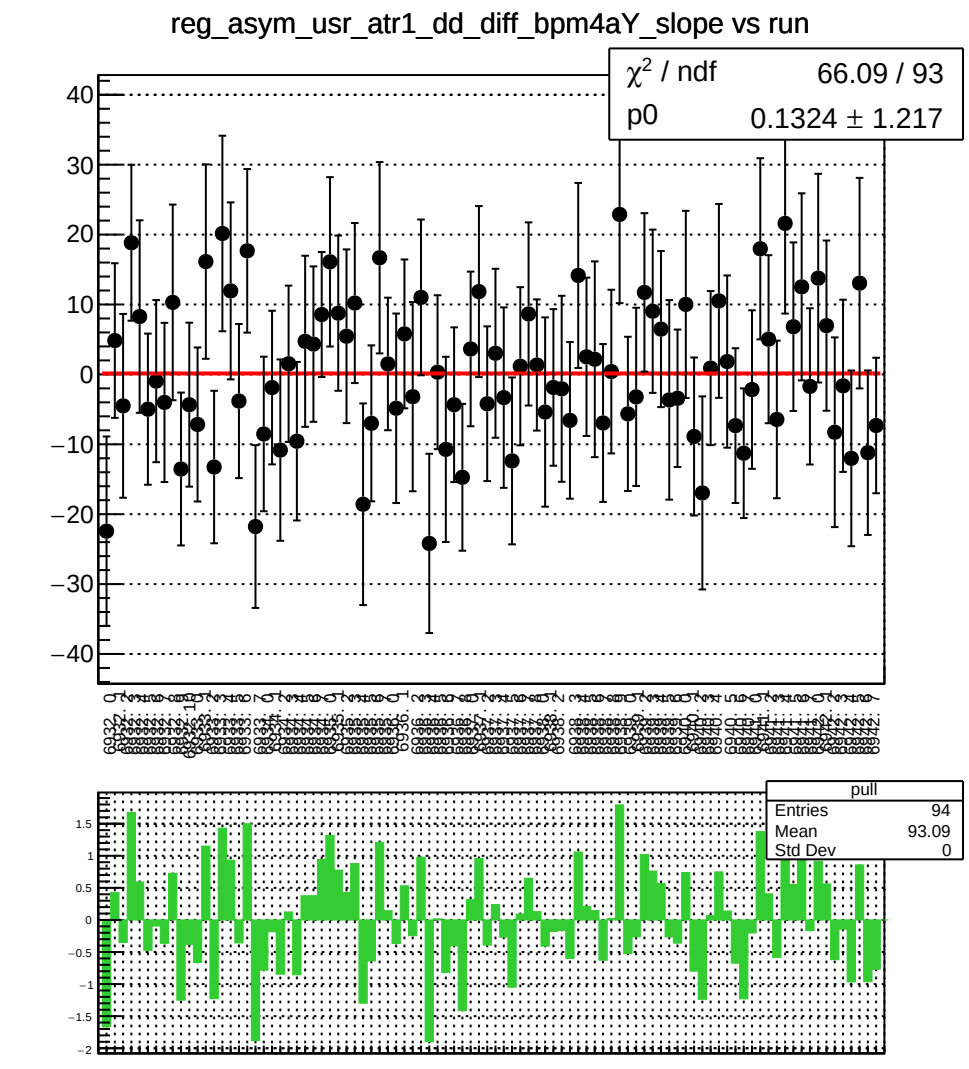

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.47 / 93
p0 8.923 ± 1.847
pull
Entries 94
Mean 233.5
Std Dev 0

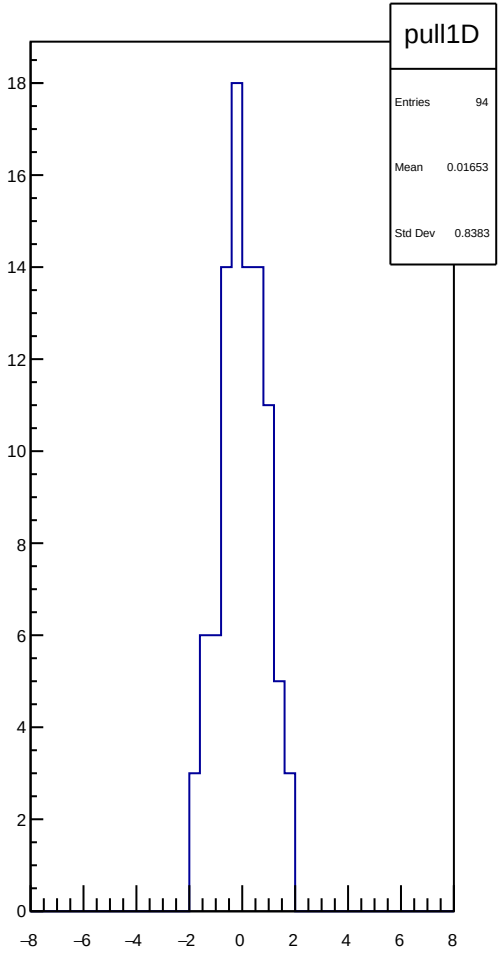

pull1D
Entries 94
Mean 0.01828
Std Dev 0.7252

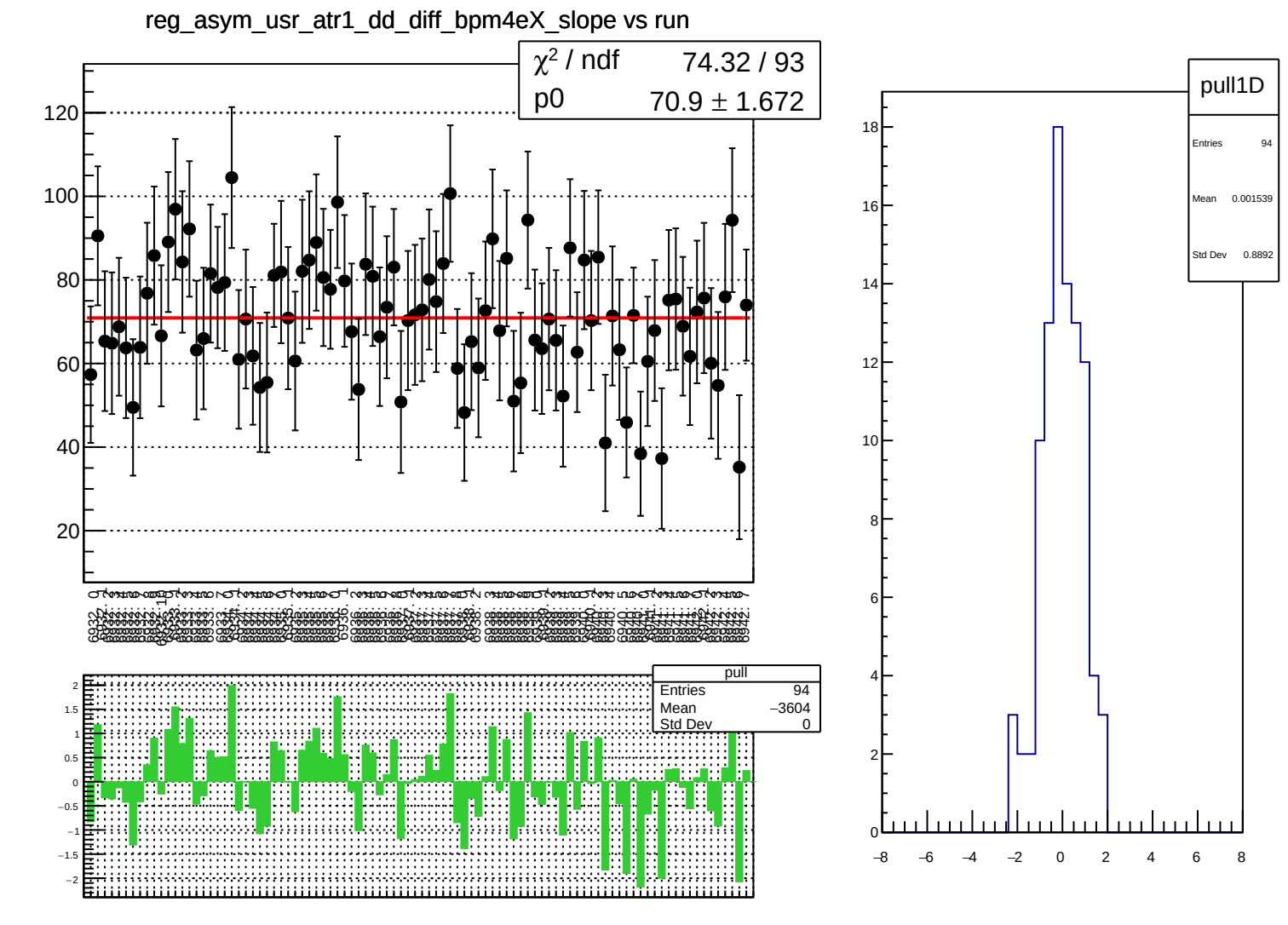

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 111.7 / 93
p0 −28.94 ± 0.0747
pull
Entries 94
Mean −832.6
Std Dev 0
pull1D
Entries 94
Mean −0.006045
Std Dev 1.09

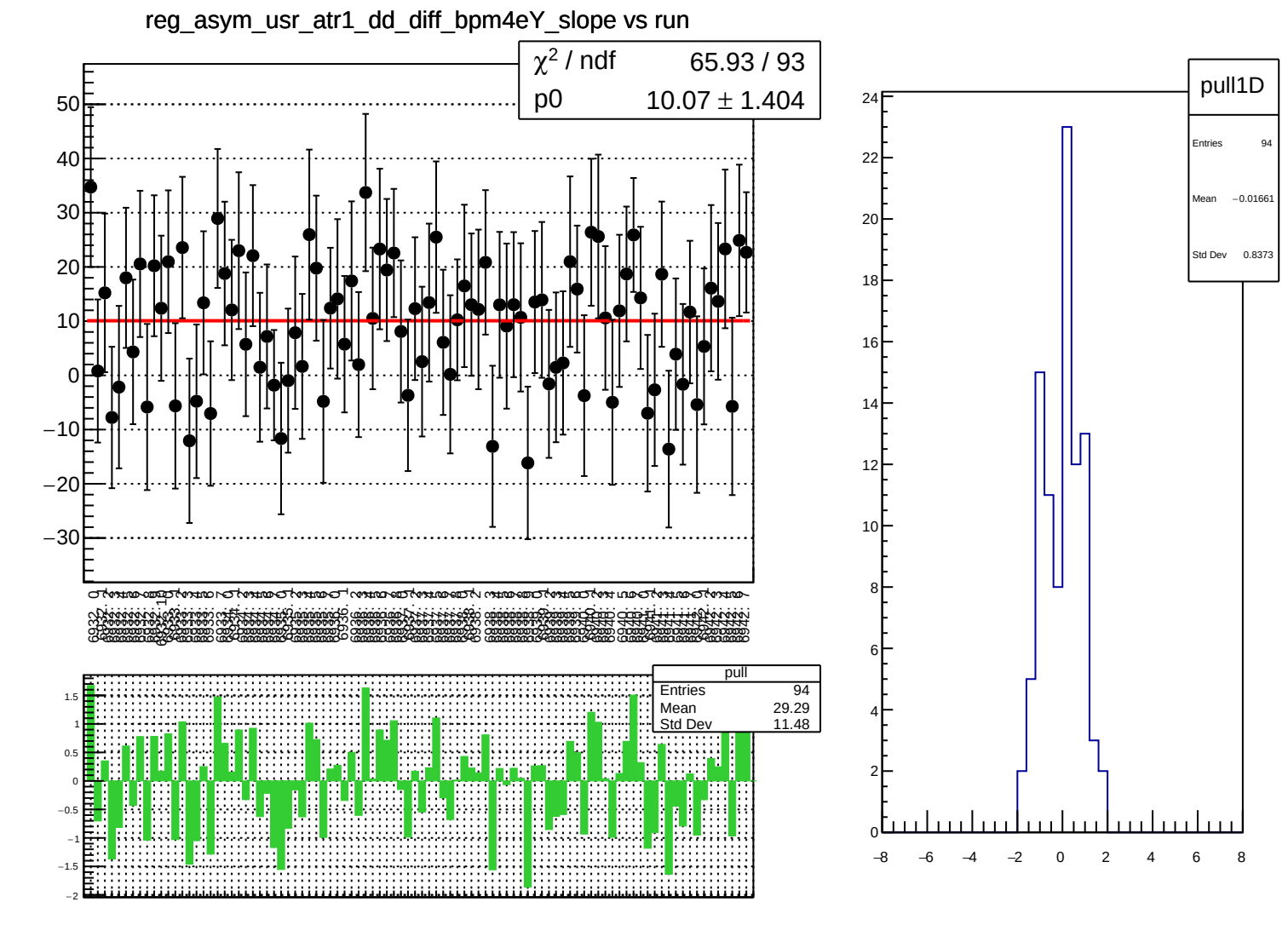

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 74.31 / 93
p0 −11.72 ± 1.803
pull
Entries 94
Mean −3809
Std Dev 0

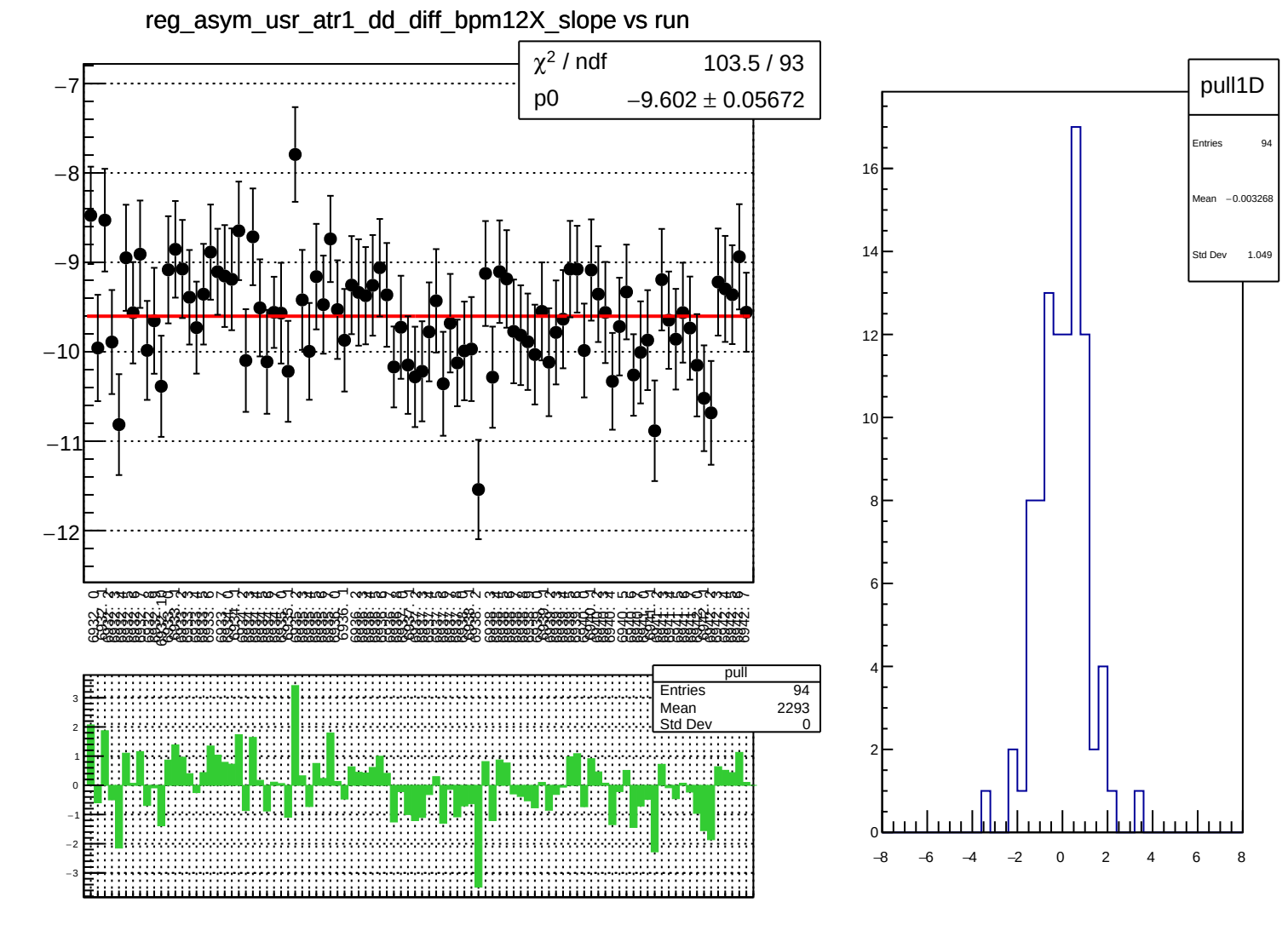

pull1D
Entries 94
Mean −0.001479
Std Dev 0.8891

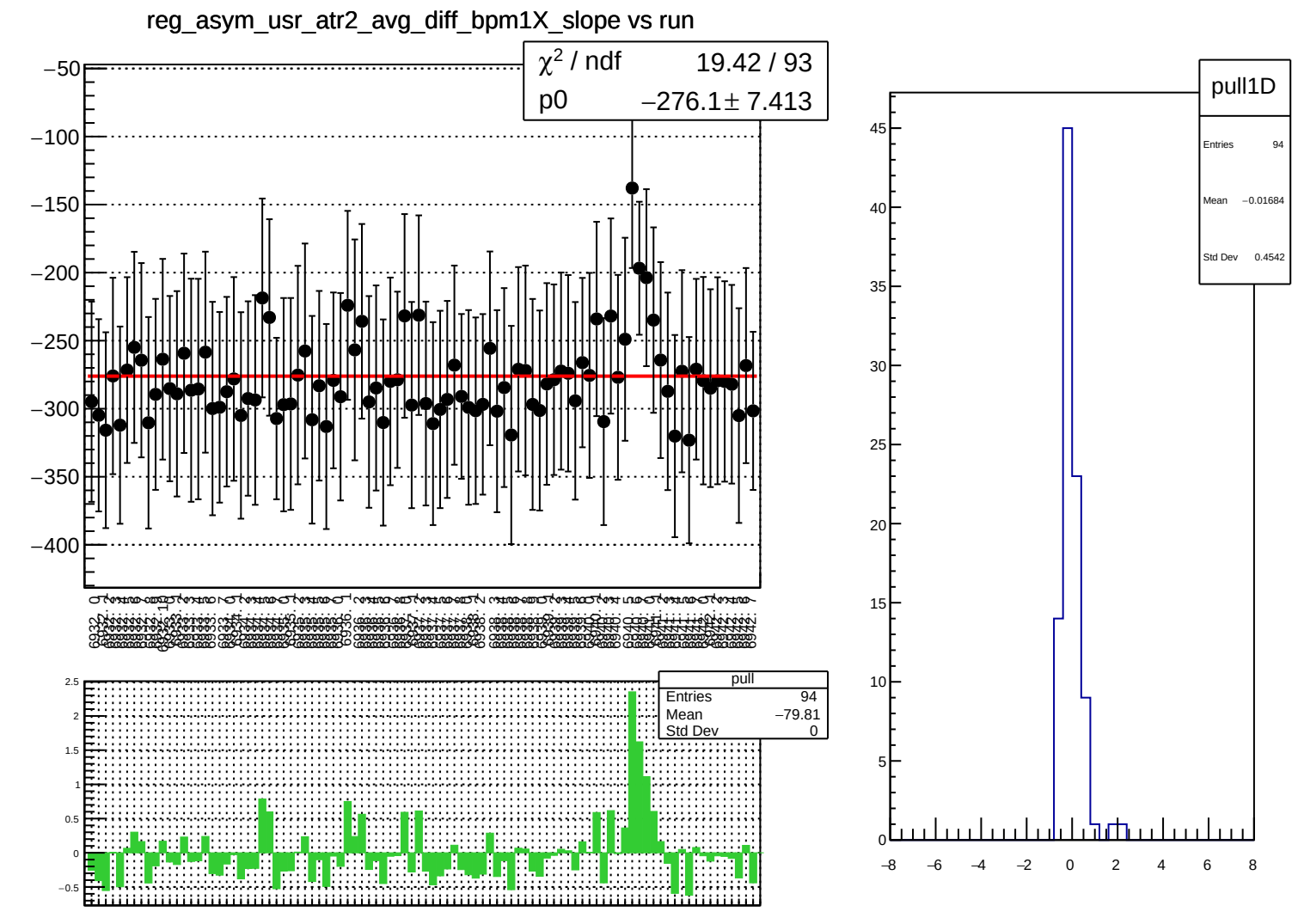

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.09 / 93
p0 0.1324 ± 1.217
pull
Entries 94
Mean 93.09
Std Dev 0

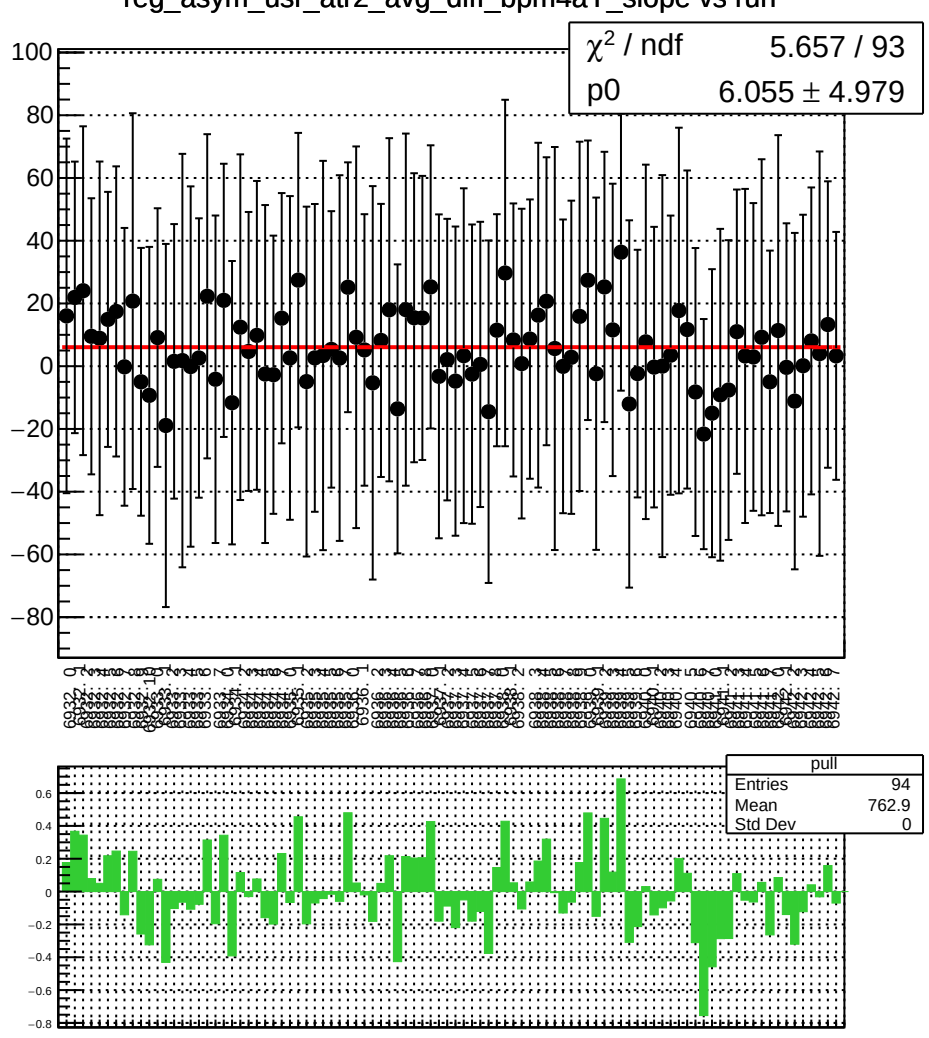

pull1D
Entries 94
Mean 0.01653
Std Dev 0.8383

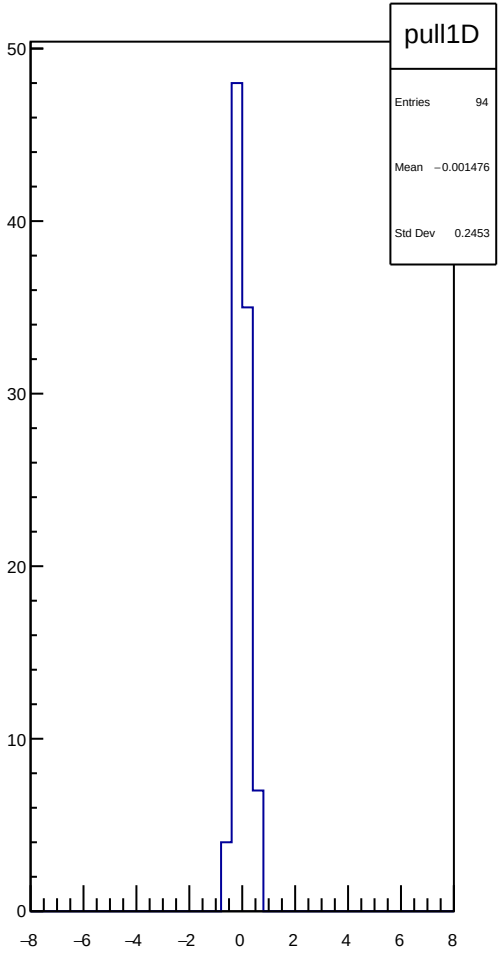

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.32 / 93
p0 70.9 ± 1.672
pull
Entries 94
Mean −3604
Std Dev 0
pull1D
Entries 94
Mean 0.001539
Std Dev 0.8892

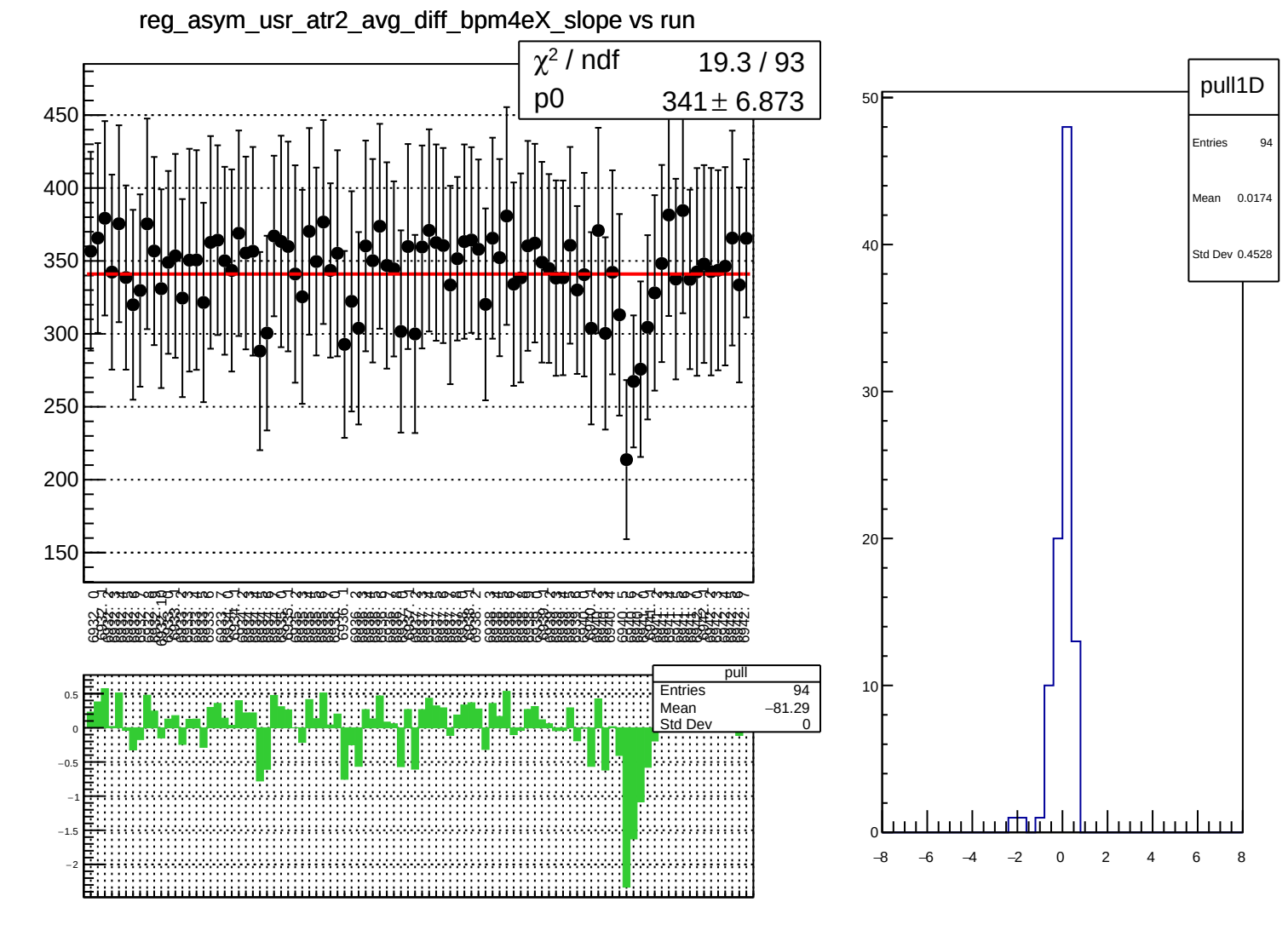

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.93 / 93
p0 10.07 ± 1.404
pull
Entries 94
Mean 29.29
Std Dev 11.48
pull1D
Entries 94
Mean −0.01661
Std Dev 0.8373

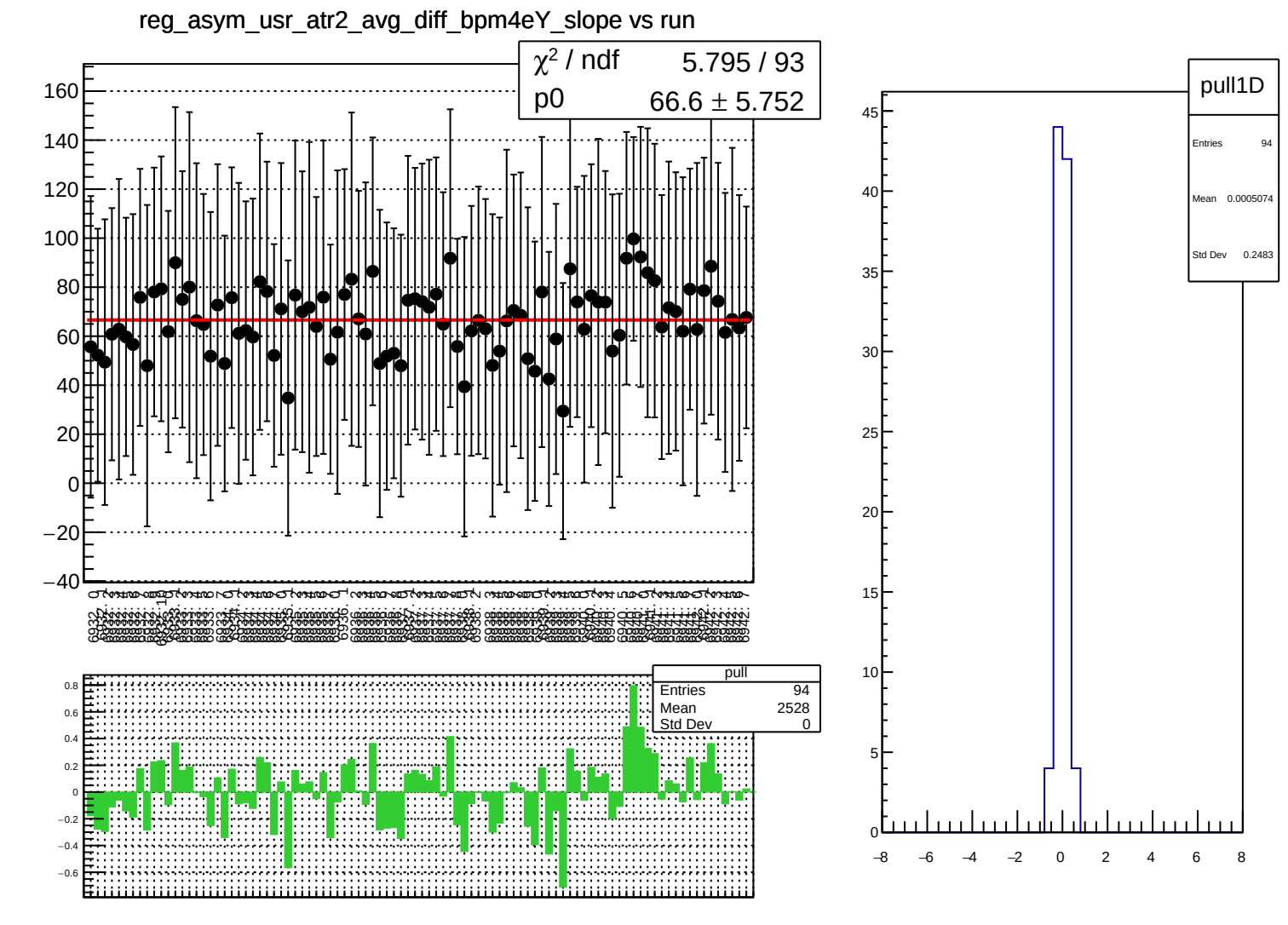

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 103.5 / 93
p0 −9.602 ± 0.05672
pull
Entries 94
Mean 2293
Std Dev 0
pull1D
Entries 94
Mean −0.003268
Std Dev 1.049

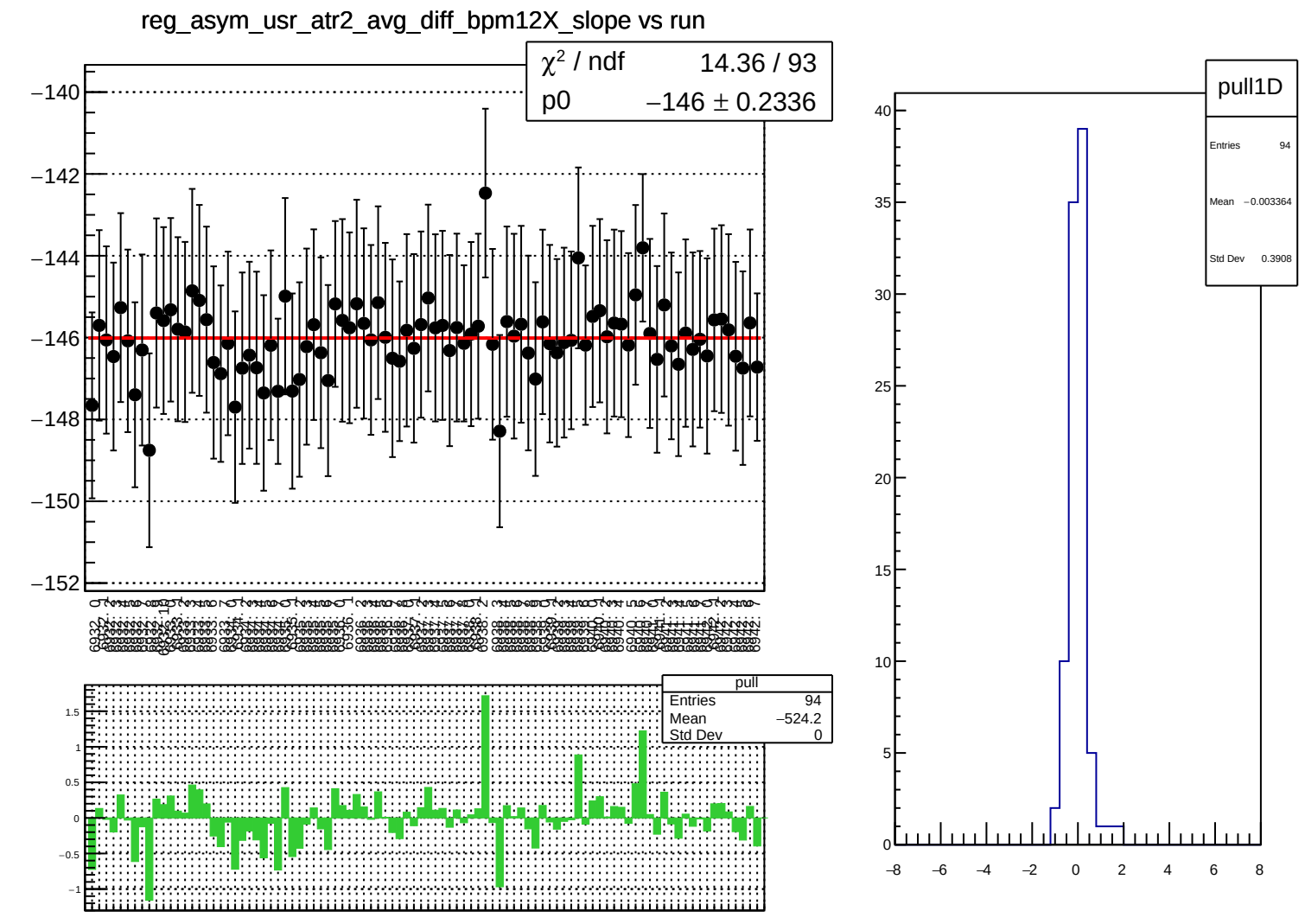

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 19.42 / 93
p0 −276.1± 7.413
pull
Entries 94
Mean −79.81
Std Dev 0
pull1D
Entries 94
Mean −0.01684
Std Dev 0.4542

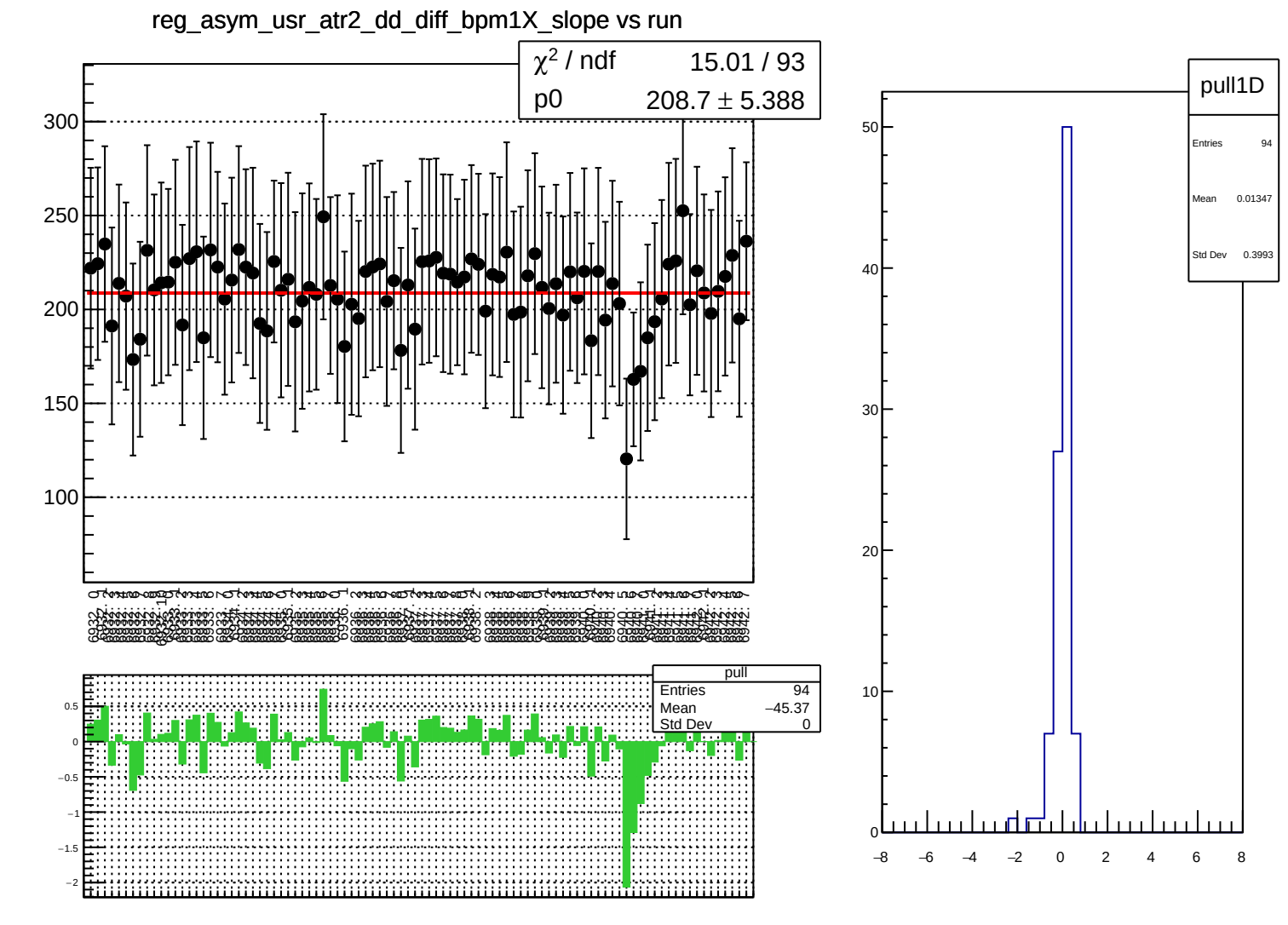

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.657 / 93
p0 6.055 ± 4.979
pull
Entries 94
Mean 762.9
Std Dev 0

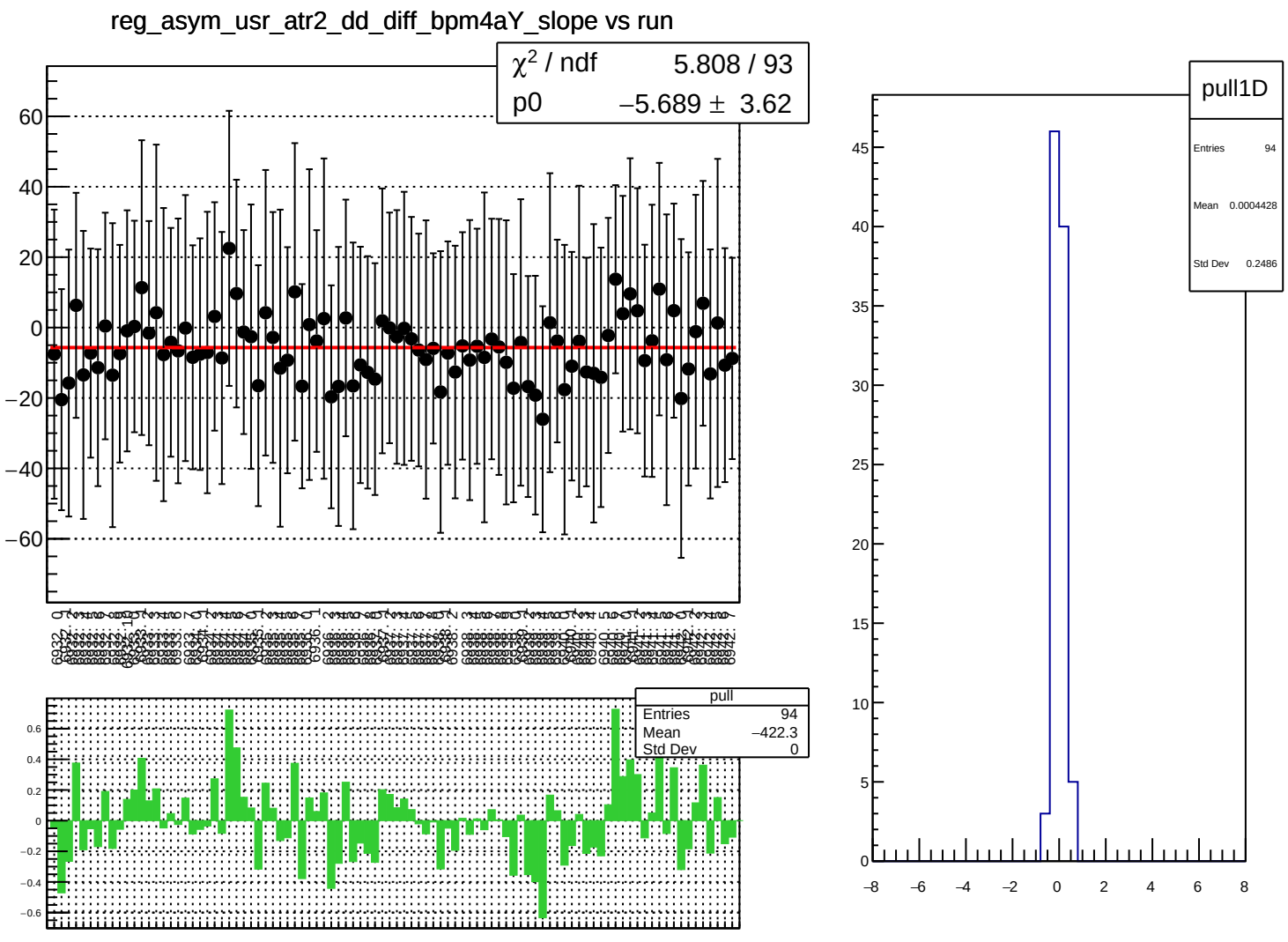

pull1D
Entries 94
Mean −0.001476
Std Dev 0.2453

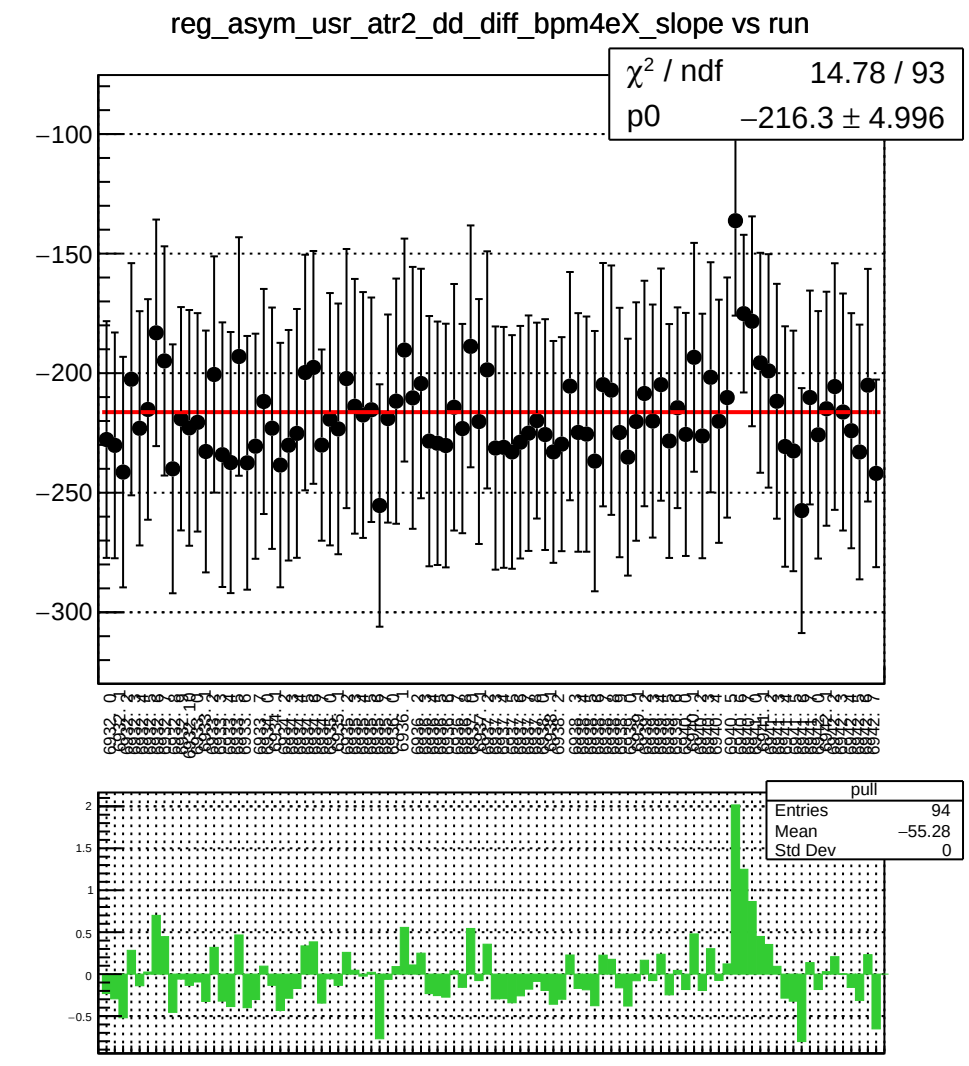

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.3 / 93
p0 341 ± 6.873
pull
Entries 94
Mean −81.29
Std Dev 0
pull1D
Entries 94
Mean 0.0174
Std Dev 0.4528

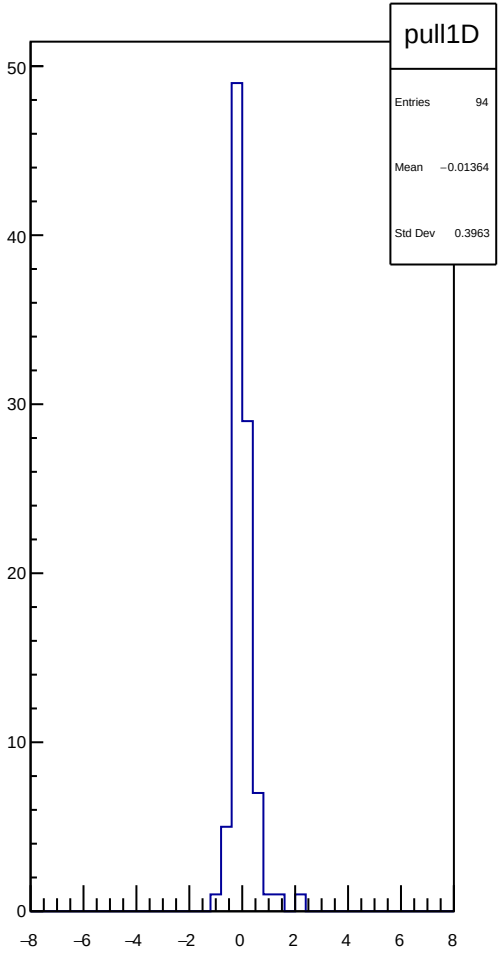

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.795 / 93
p0 66.6 ± 5.752
pull
Entries 94
Mean 2528
Std Dev 0
pull1D
Entries 94
Mean 0.0005074
Std Dev 0.2483

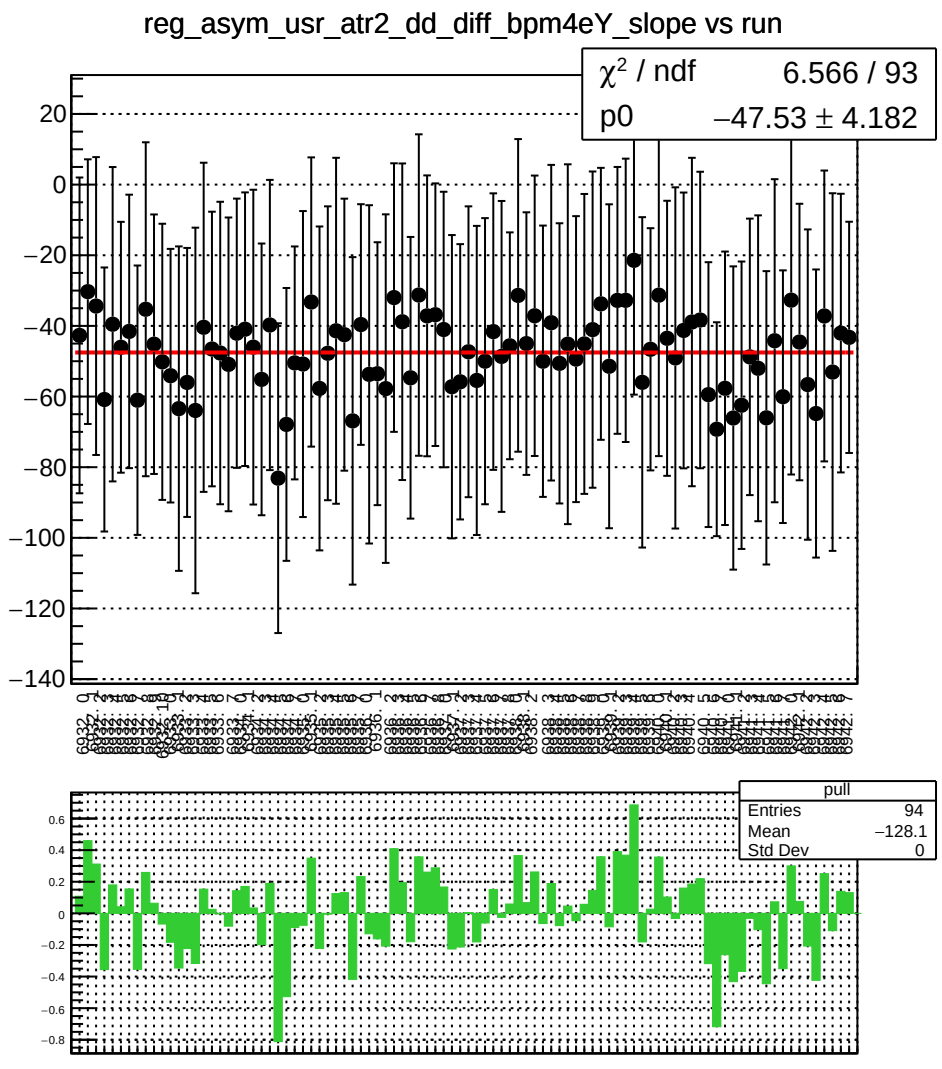

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.36 / 93
p0 −146 ± 0.2336
−140
−142
−144
−146
−148
−150
−152
pull
Entries 94
Mean −524.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.003364
Std Dev 0.3908
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

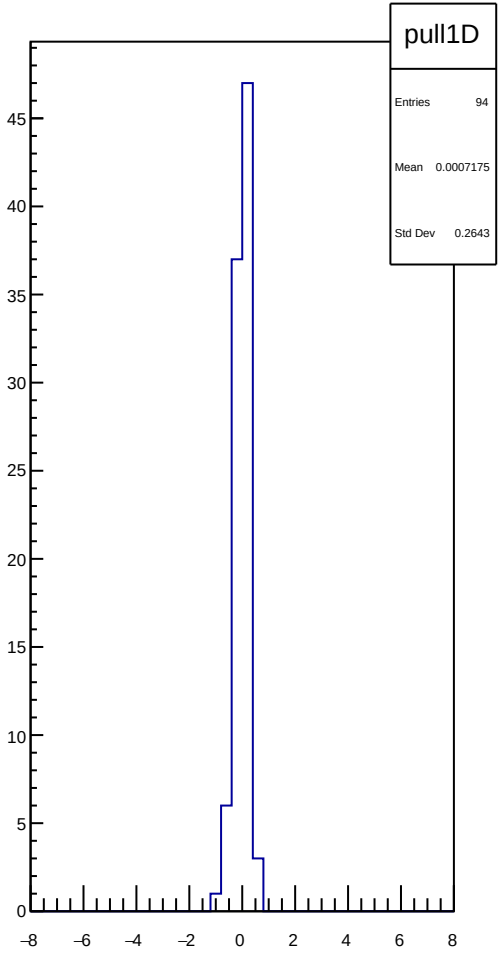

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 15.01 / 93
p0 208.7 ± 5.388
300
250
200
150
100
pull
Entries 94
Mean −45.37
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01347
Std Dev 0.3993
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

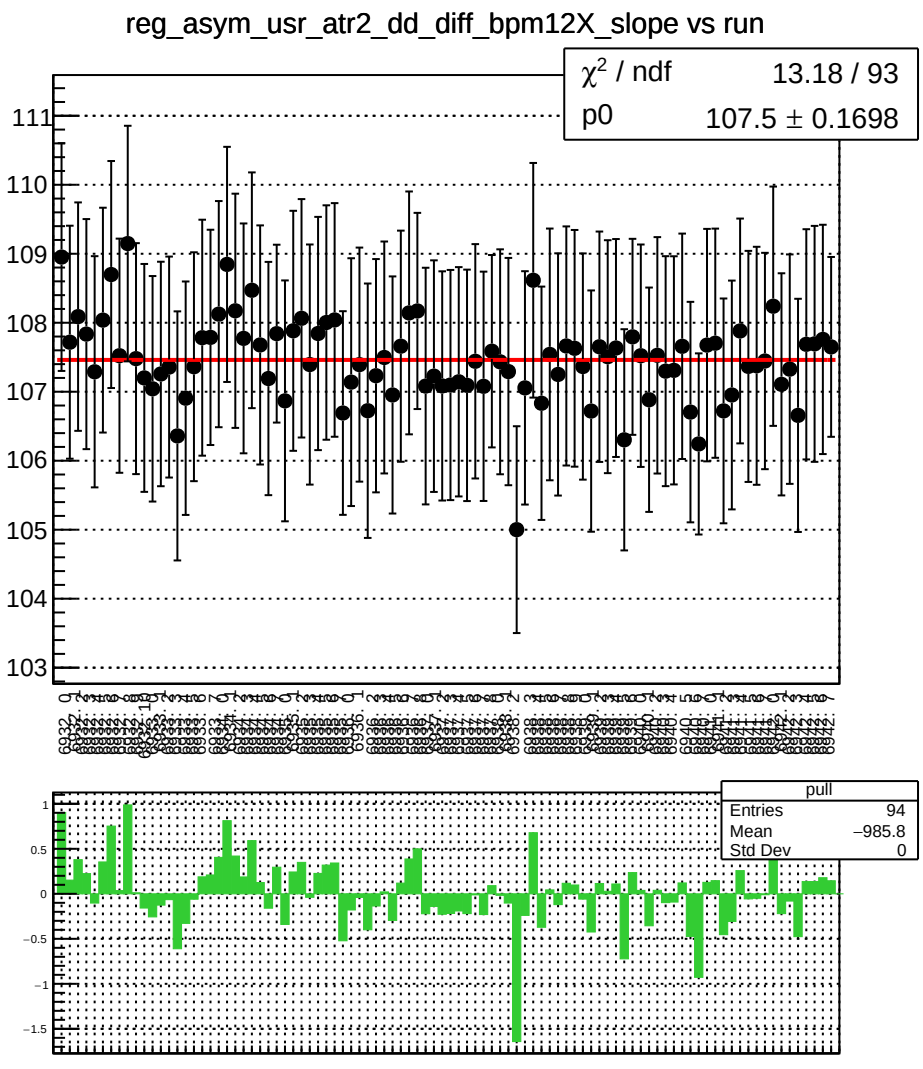

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.808 / 93
p0 −5.689 ± 3.62
pull
Entries 94
Mean −422.3
Std Dev 0
pull1D
Entries 94
Mean 0.0004428
Std Dev 0.2486

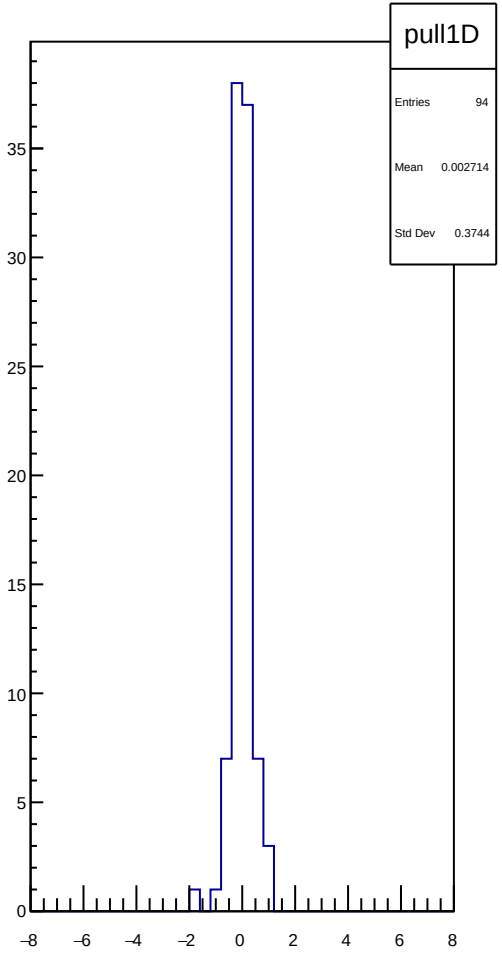

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.78 / 93
p0 −216.3 ± 4.996
−100
−150
−200
−250
−300
pull
Entries 94
Mean −55.28
Std Dev 0
2
1.5
1
0.5
0
−0.5

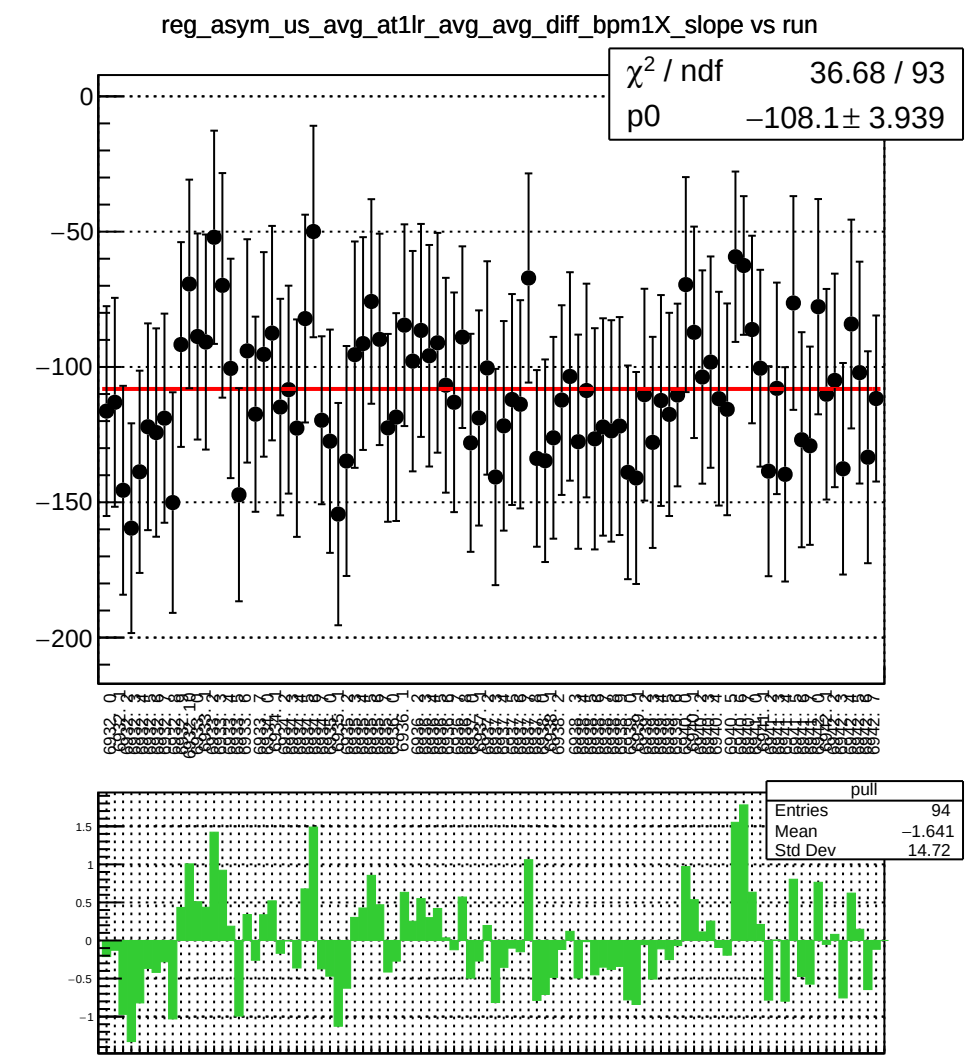

pull1D
Entries 94
Mean −0.01364
Std Dev 0.3963
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

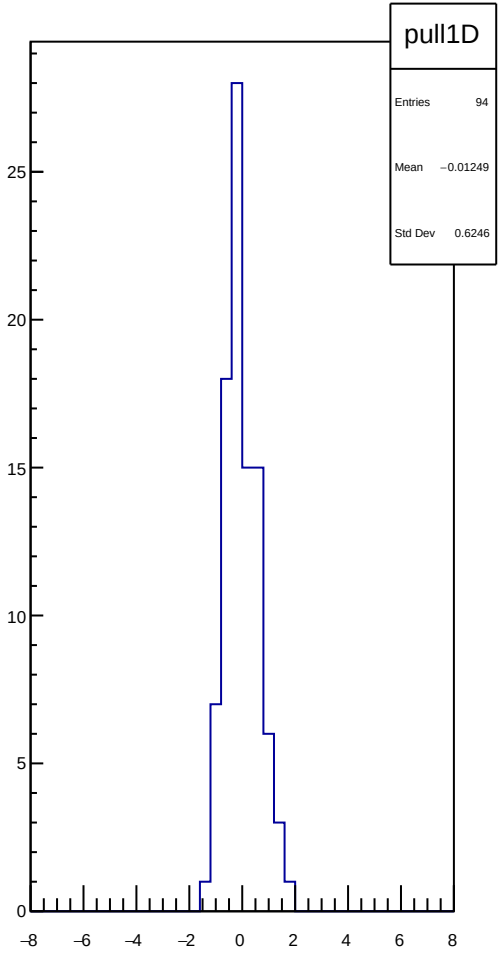

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.566 / 93
p0 −47.53 ± 4.182
pull
Entries 94
Mean −128.1
Std Dev 0

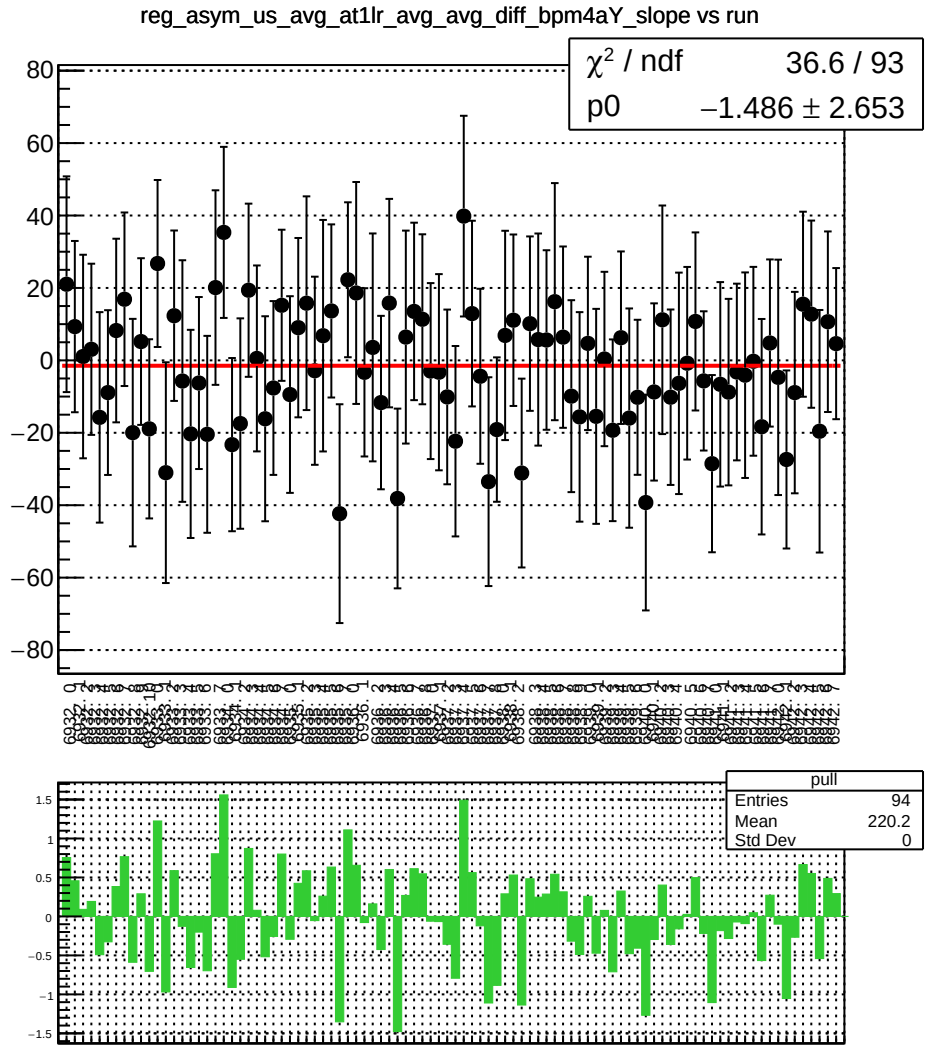

pull1D
Entries 94
Mean 0.0007175
Std Dev 0.2643

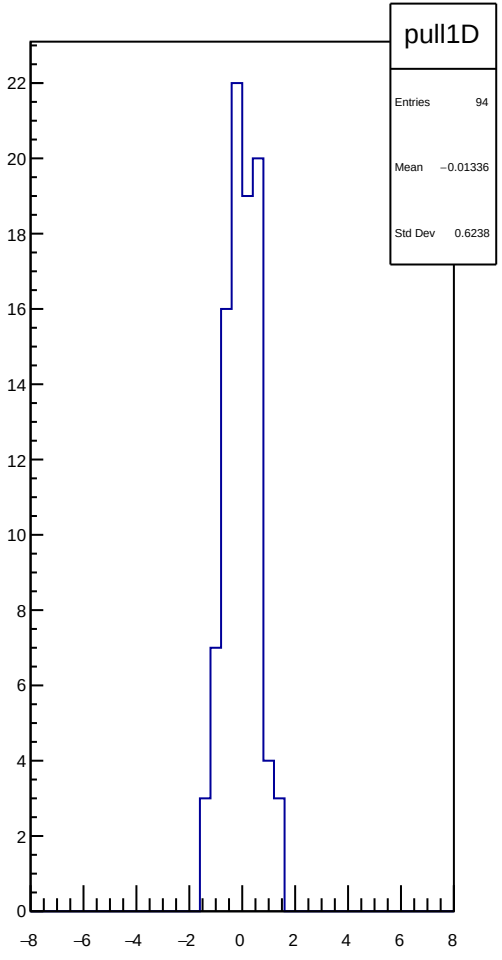

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 13.18 / 93
p0 107.5 ± 0.1698
111
110
109
108
107
106
105
104
103
pull
Entries 94
Mean −985.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

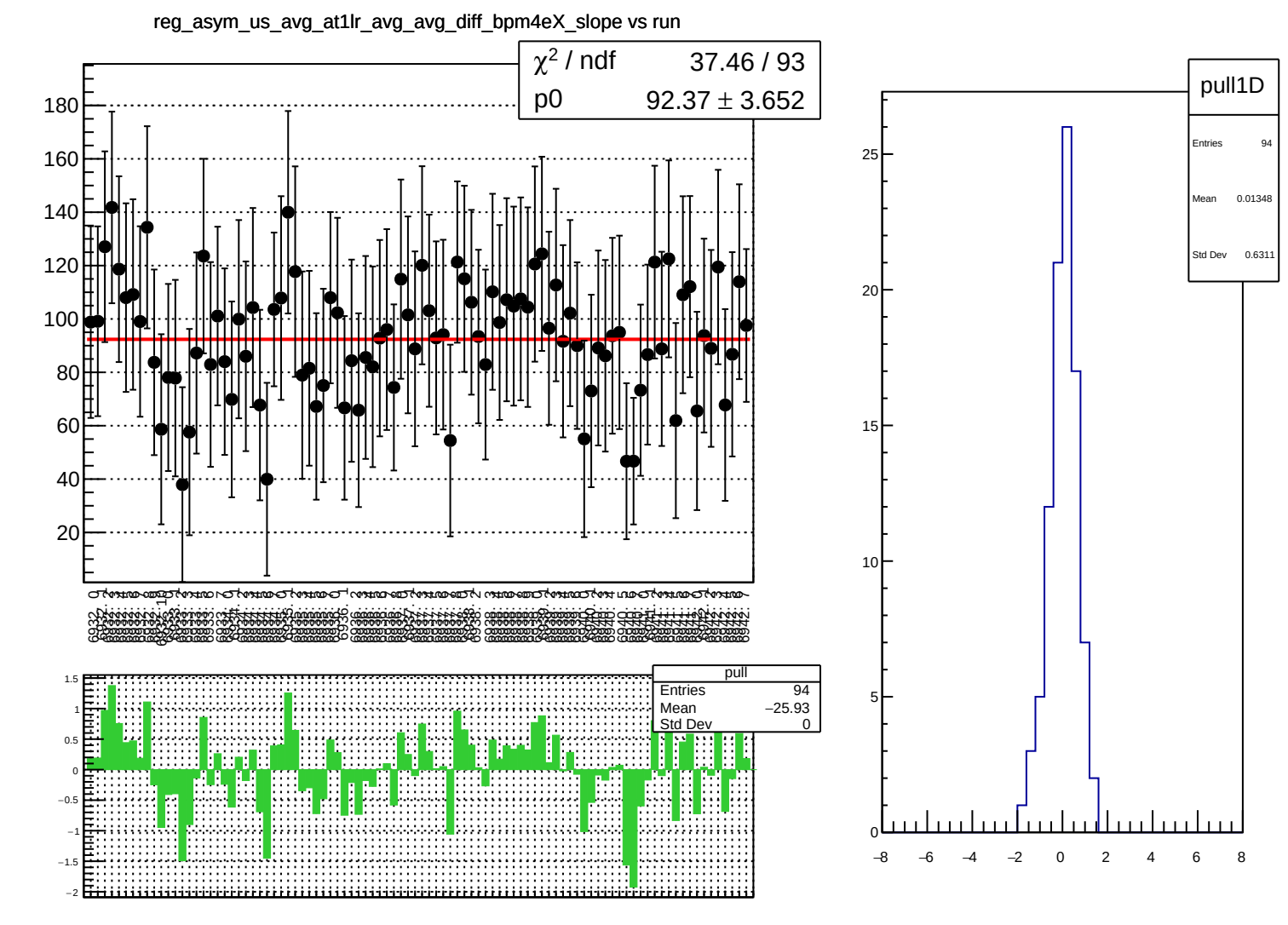

pull1D
Entries 94
Mean 0.002714
Std Dev 0.3744
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

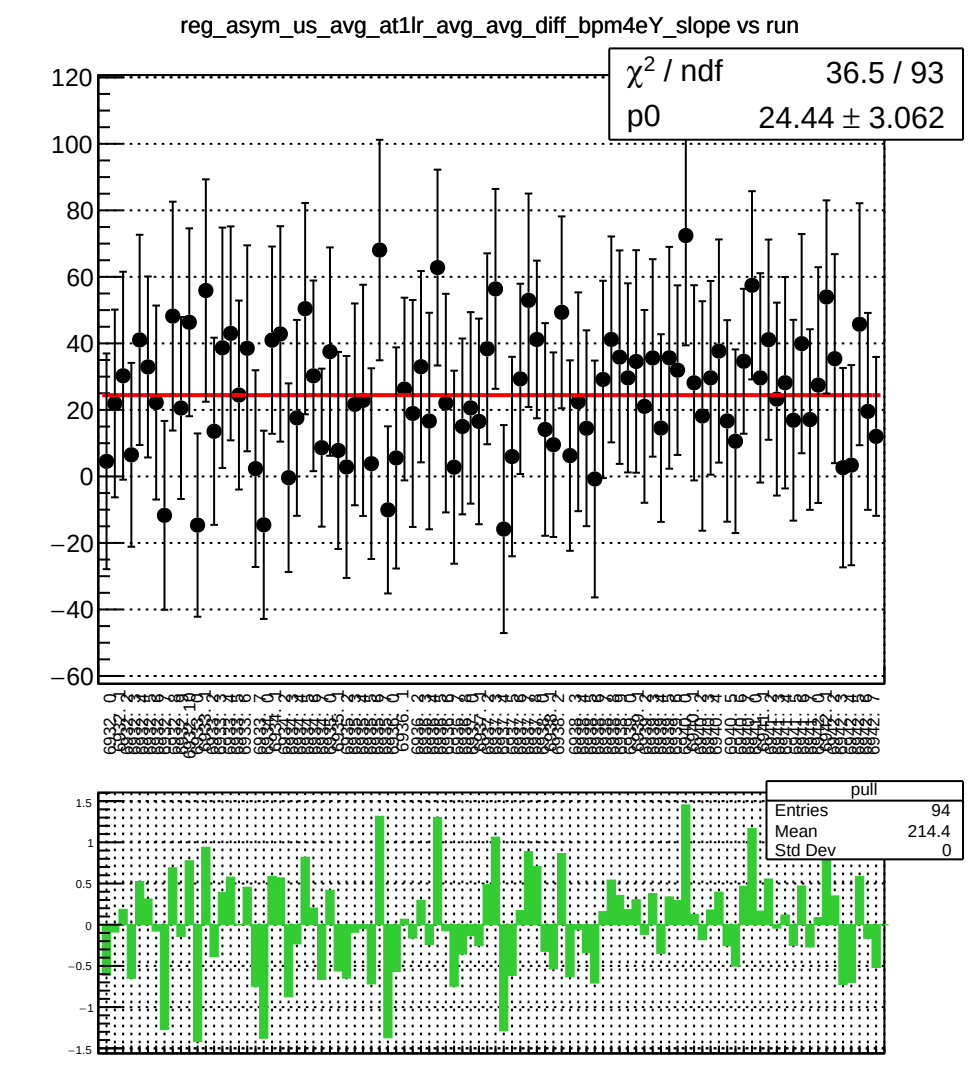

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 36.68 / 93
p0 −108.1± 3.939
0
−50
−100
−150
−200
pull
Entries 94
Mean −1.641
Std Dev 14.72
1.5
1
0.5
0
−0.5
−1

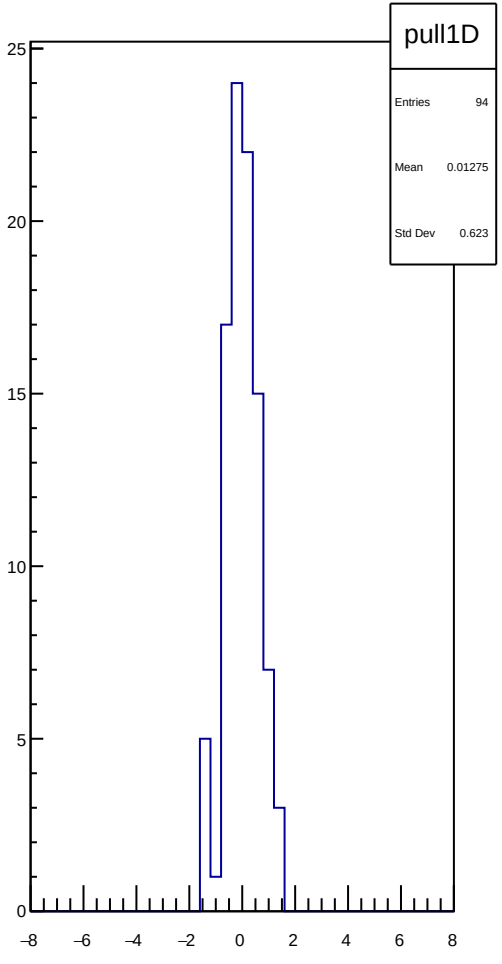

pull1D
Entries 94
Mean −0.01249
Std Dev 0.6246
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

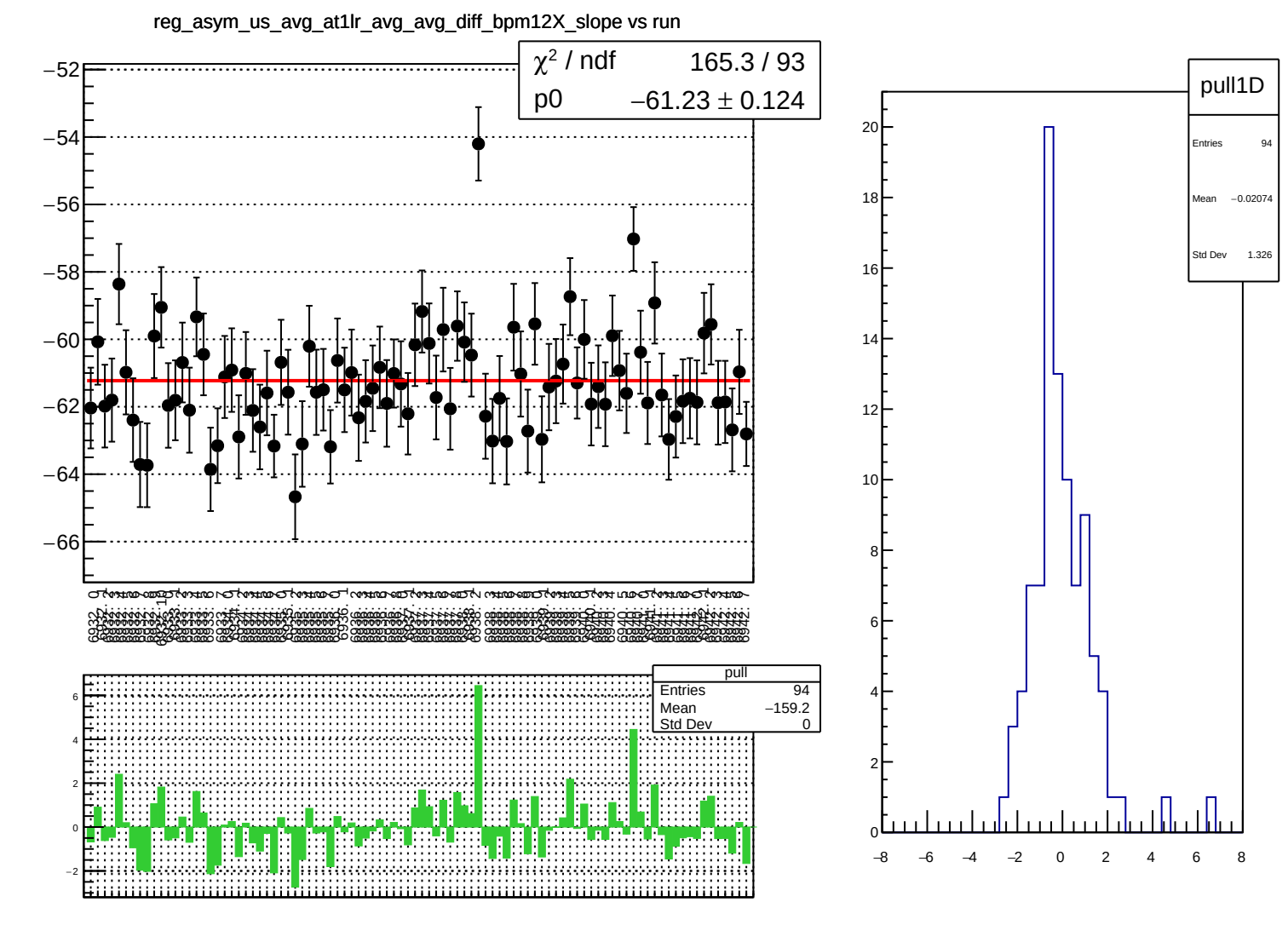

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.6 / 93
p0 −1.486 ± 2.653
pull
Entries 94
Mean 220.2
Std Dev 0

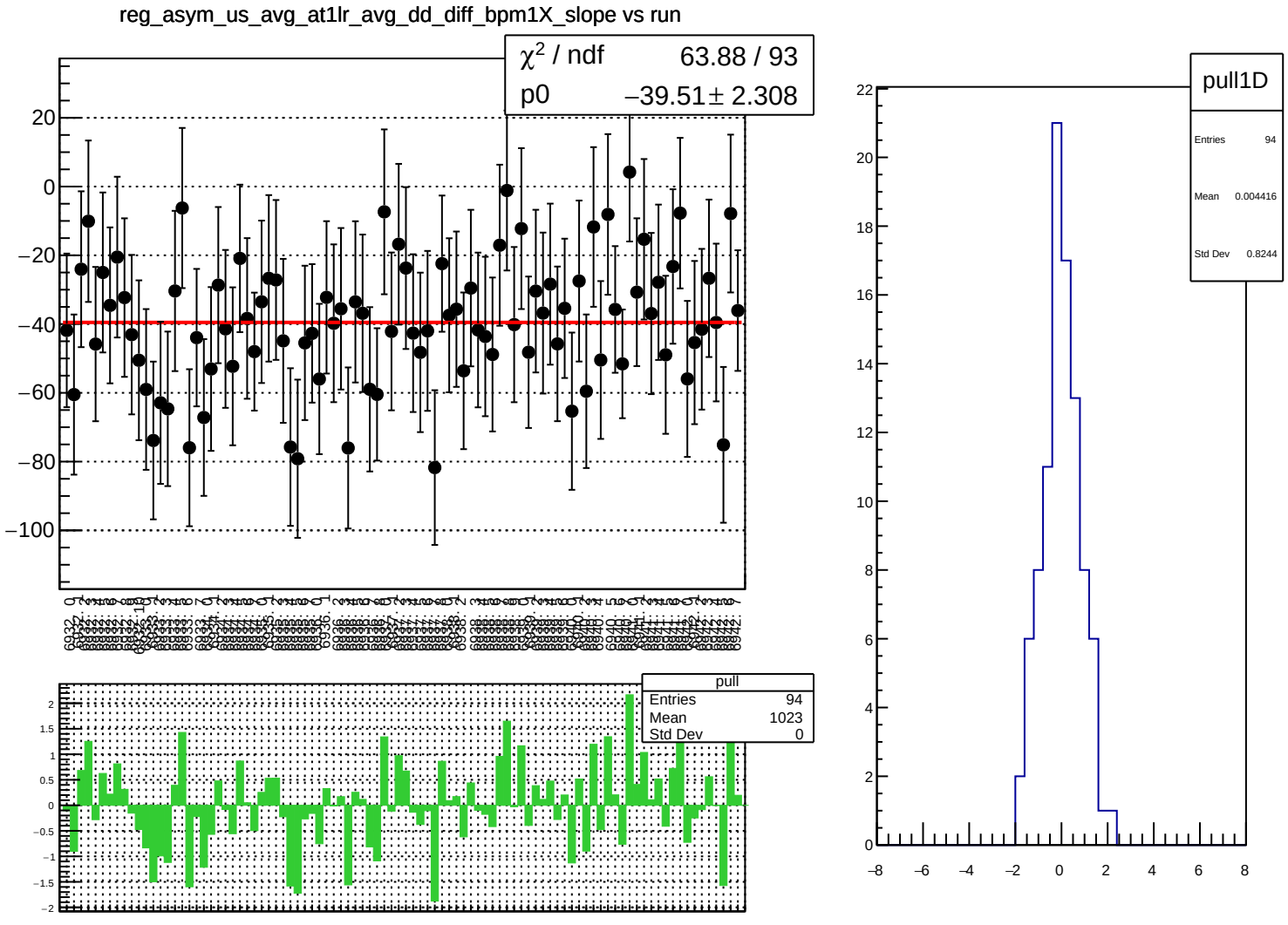

pull1D
Entries 94
Mean −0.01336
Std Dev 0.6238

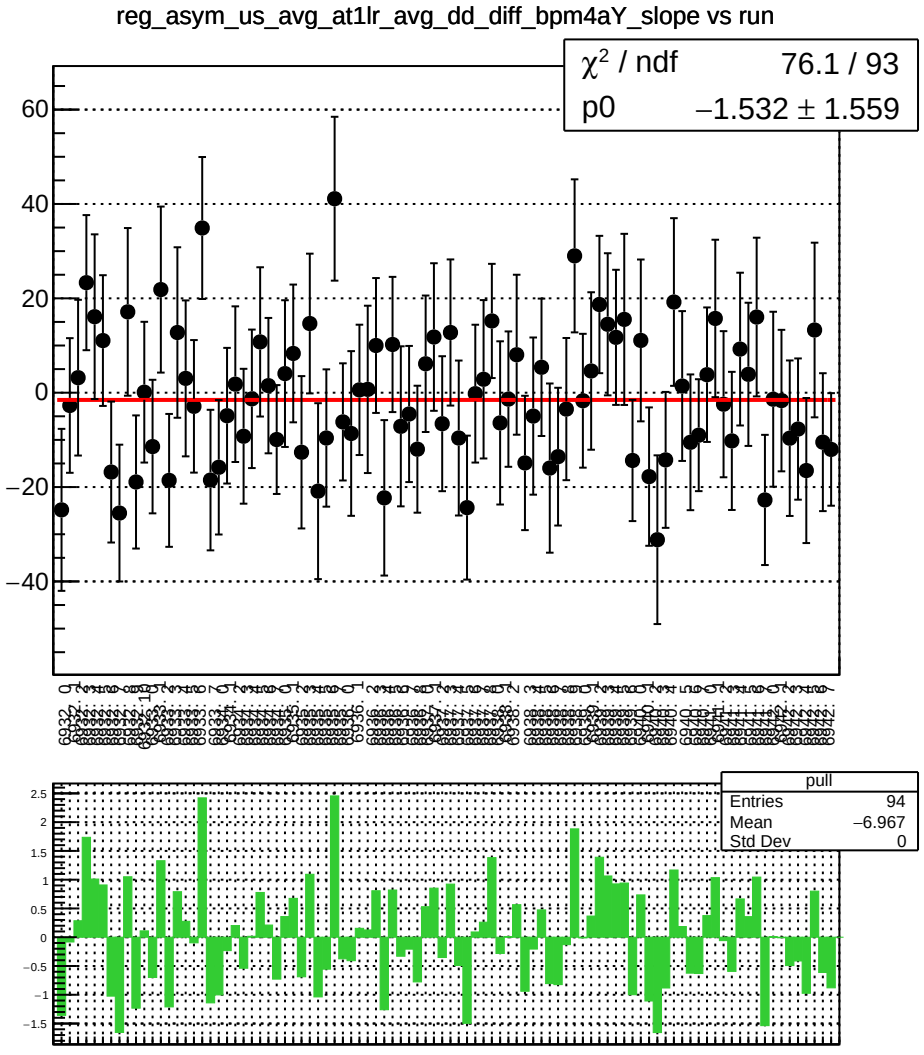

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.46 / 93
p0 92.37 ± 3.652
pull
Entries 94
Mean −25.93
Std Dev 0
pull1D
Entries 94
Mean 0.01348
Std Dev 0.6311

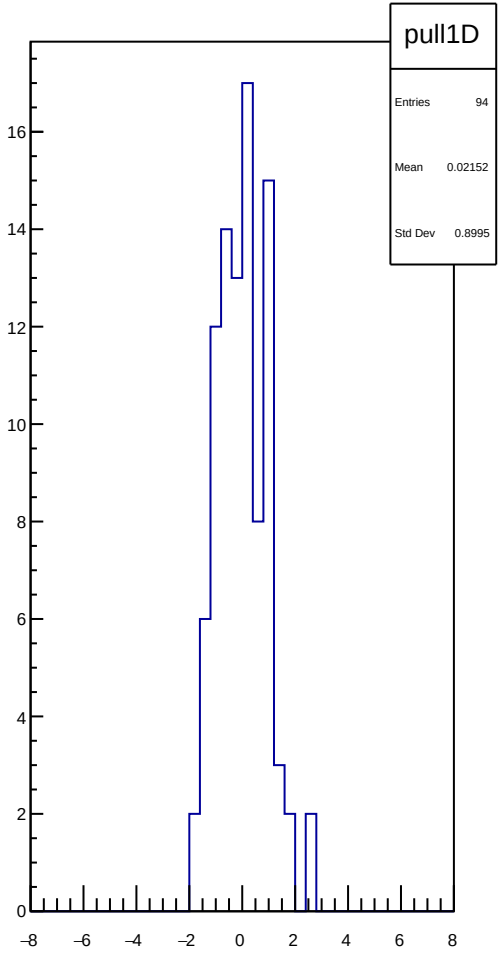

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.5 / 93
p0 24.44 ± 3.062
pull
Entries 94
Mean 214.4
Std Dev 0

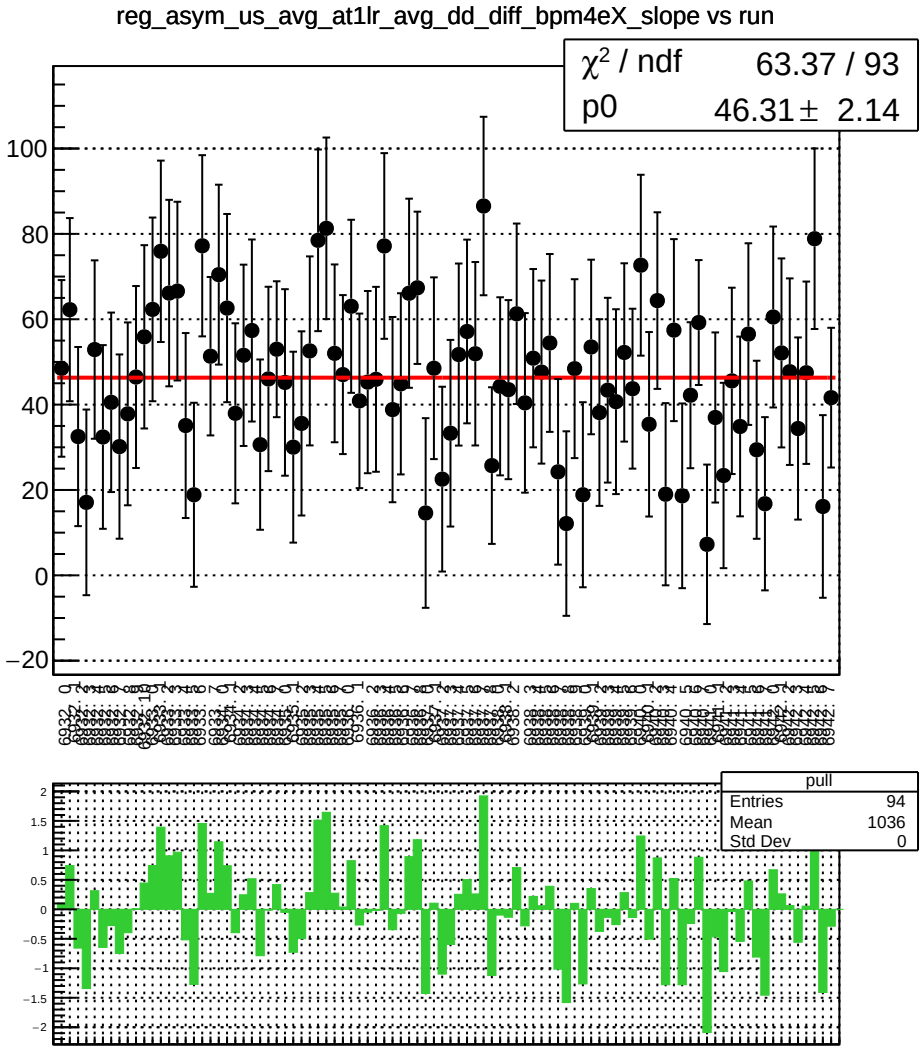

pull1D
Entries 94
Mean 0.01275
Std Dev 0.623

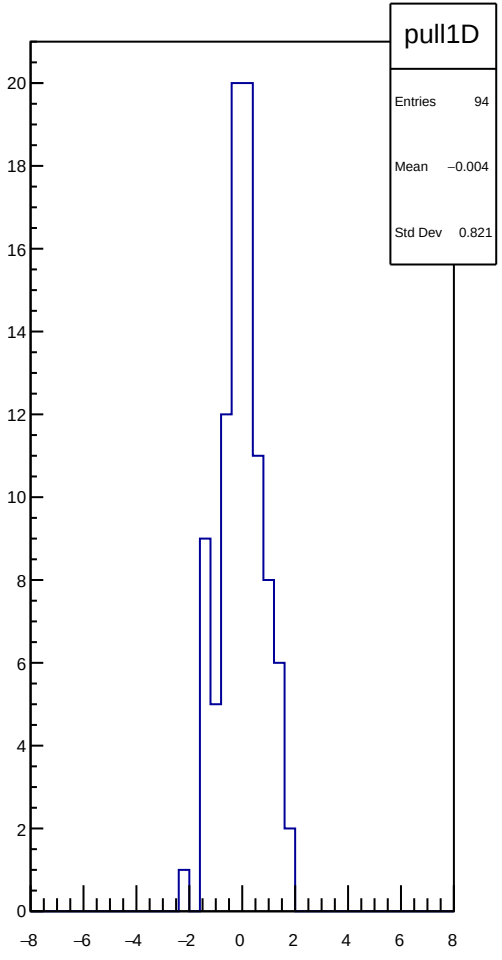

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 165.3 / 93
p0 −61.23 ± 0.124
pull
Entries 94
Mean −159.2
Std Dev 0
pull1D
Entries 94
Mean −0.02074
Std Dev 1.326

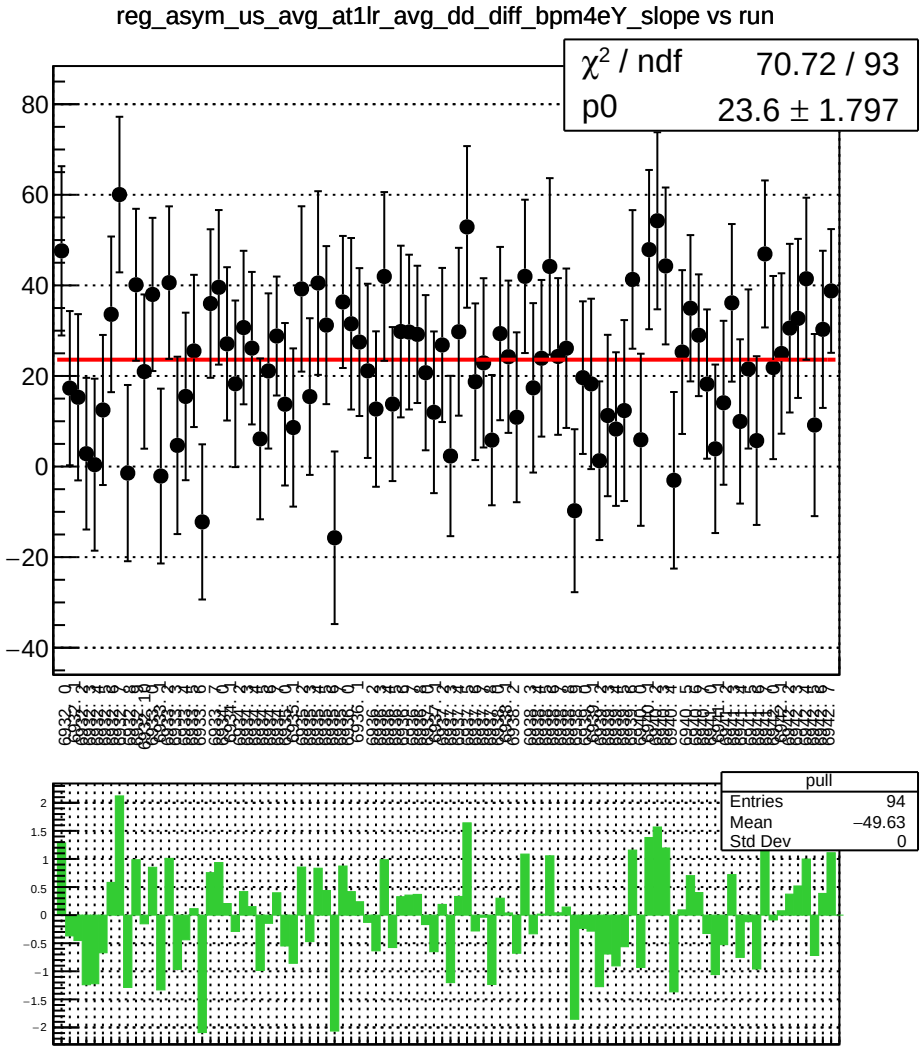

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 63.88 / 93
p0 −39.51 ± 2.308
pull
Entries 94
Mean 1023
Std Dev 0
pull1D
Entries 94
Mean 0.004416
Std Dev 0.8244

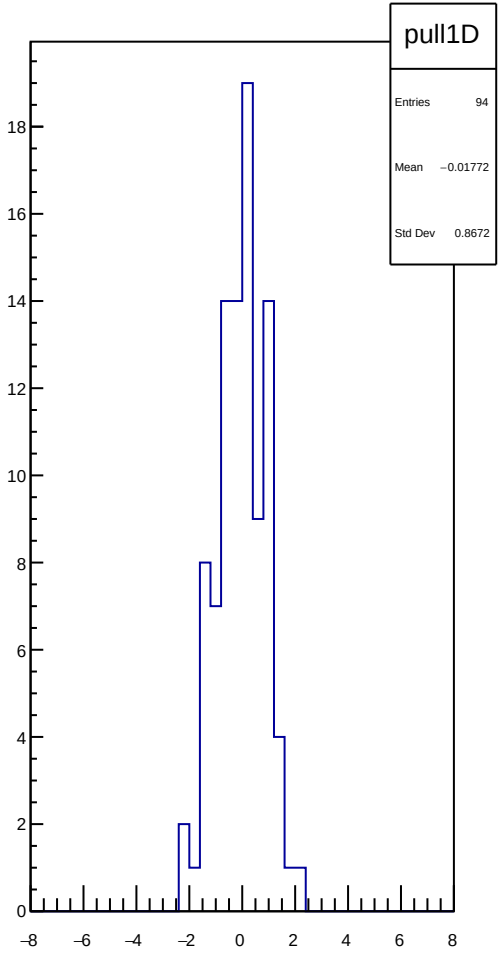

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.1 / 93
p0 −1.532 ± 1.559
pull
Entries 94
Mean −6.967
Std Dev 0

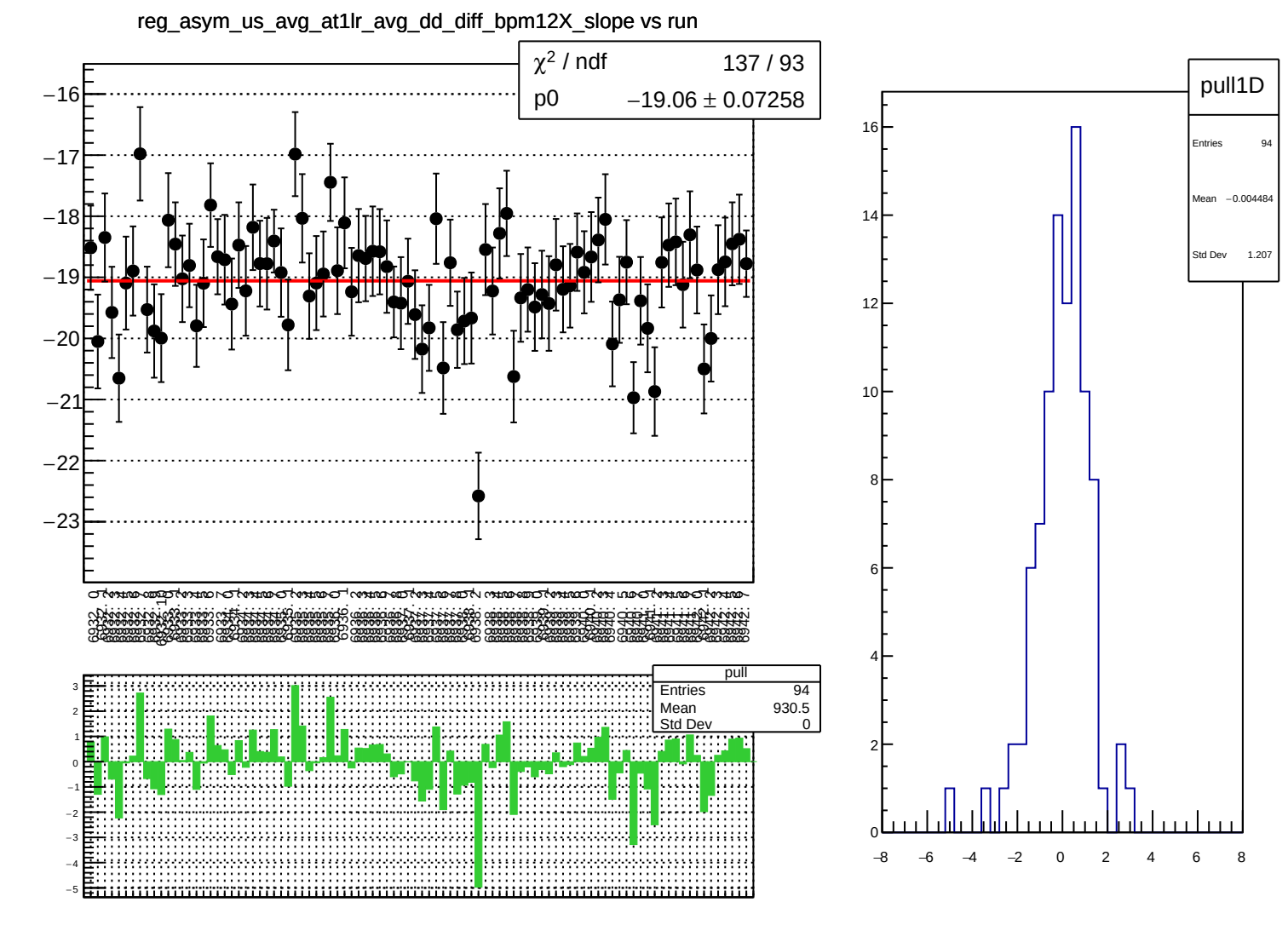

pull1D
Entries 94
Mean 0.02152
Std Dev 0.8995

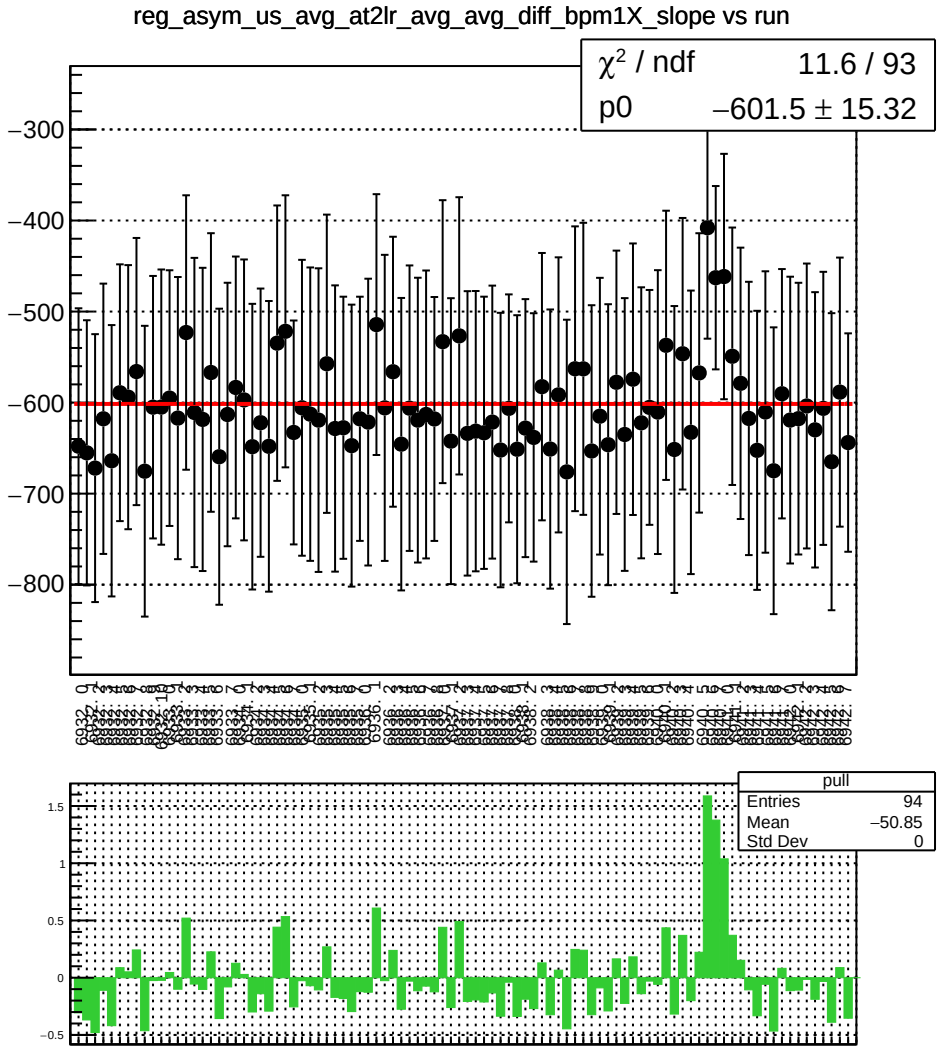

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.37 / 93
p0 46.31 ± 2.14
pull
Entries 94
Mean 1036
Std Dev 0

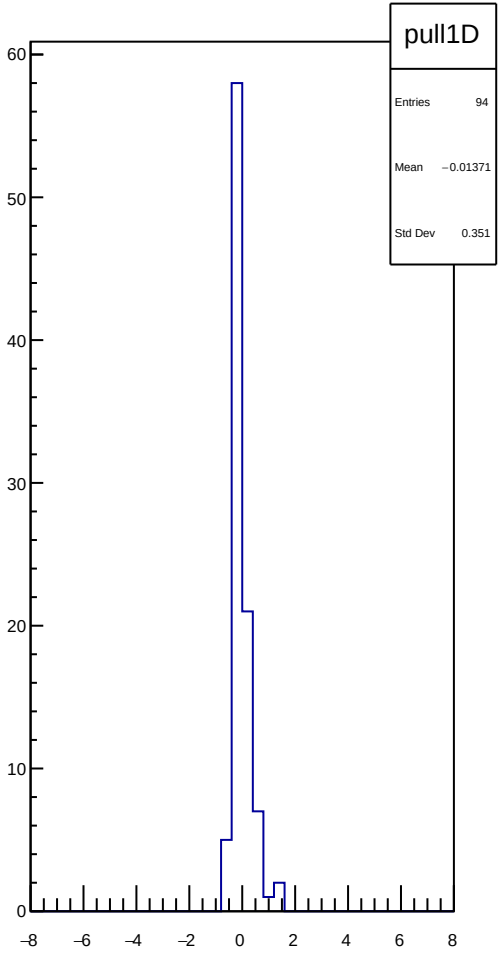

pull1D
Entries 94
Mean −0.004
Std Dev 0.821

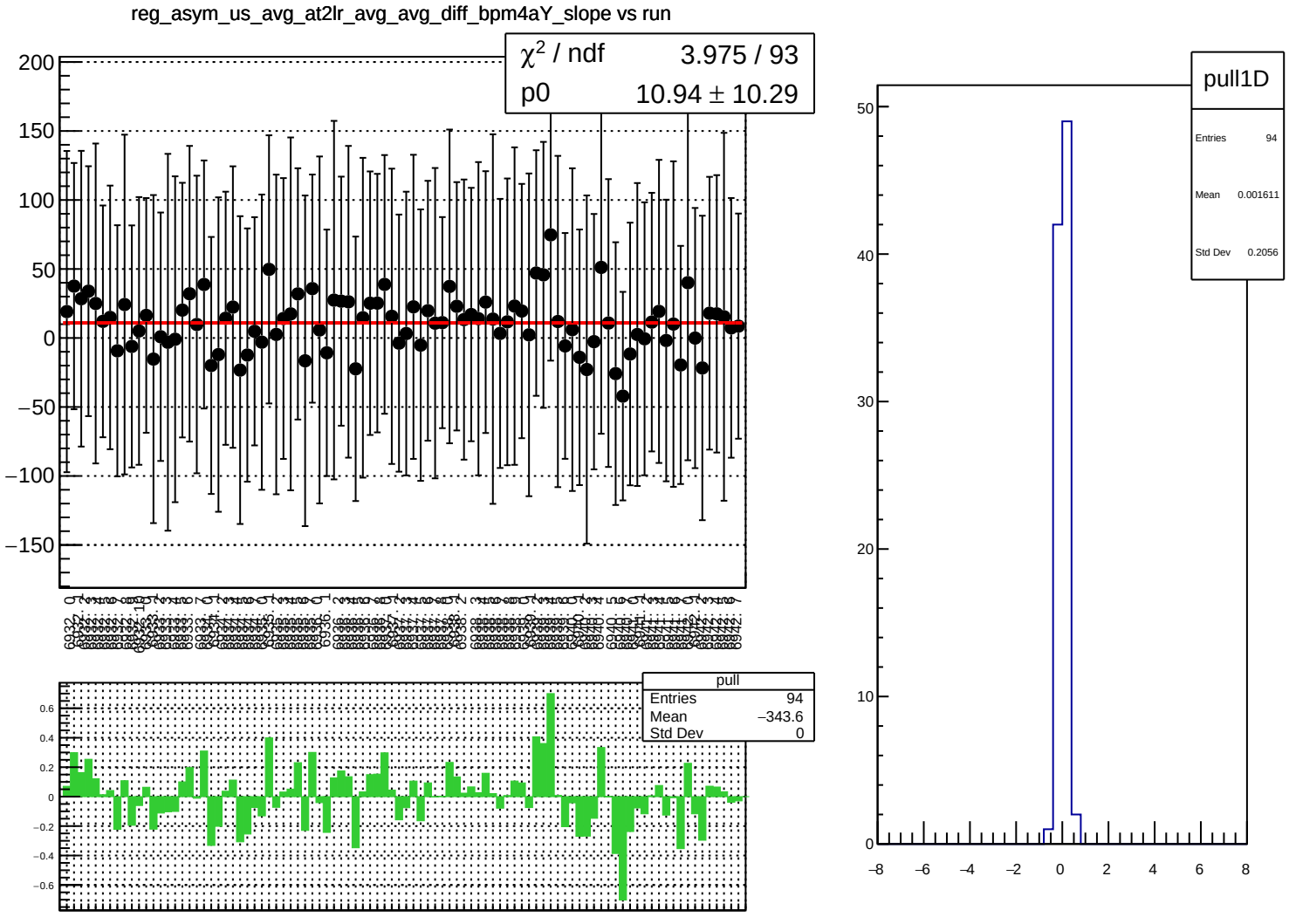

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.72 / 93
p0 23.6 ± 1.797
pull
Entries 94
Mean −49.63
Std Dev 0

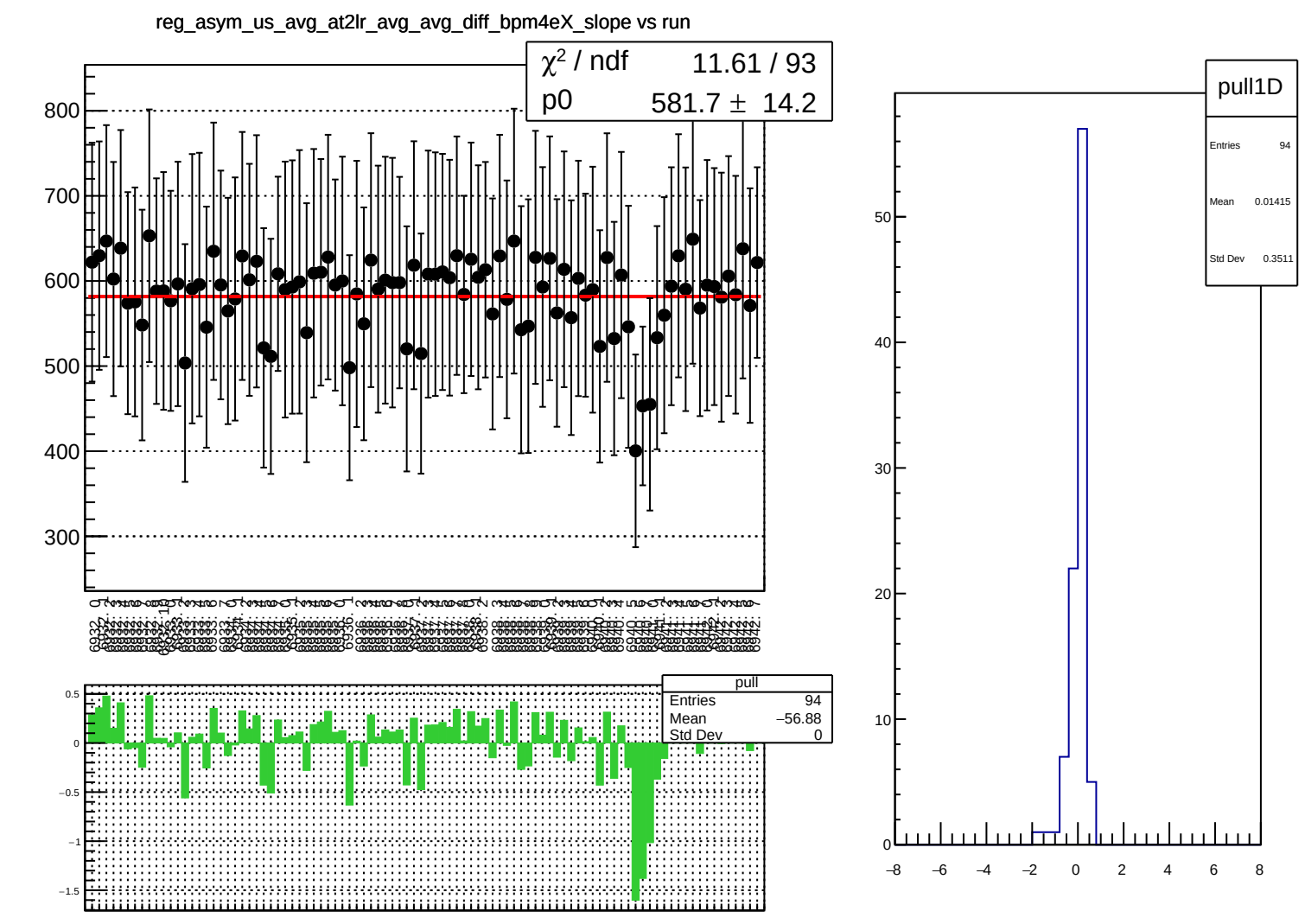

pull1D
Entries 94
Mean −0.01772
Std Dev 0.8672

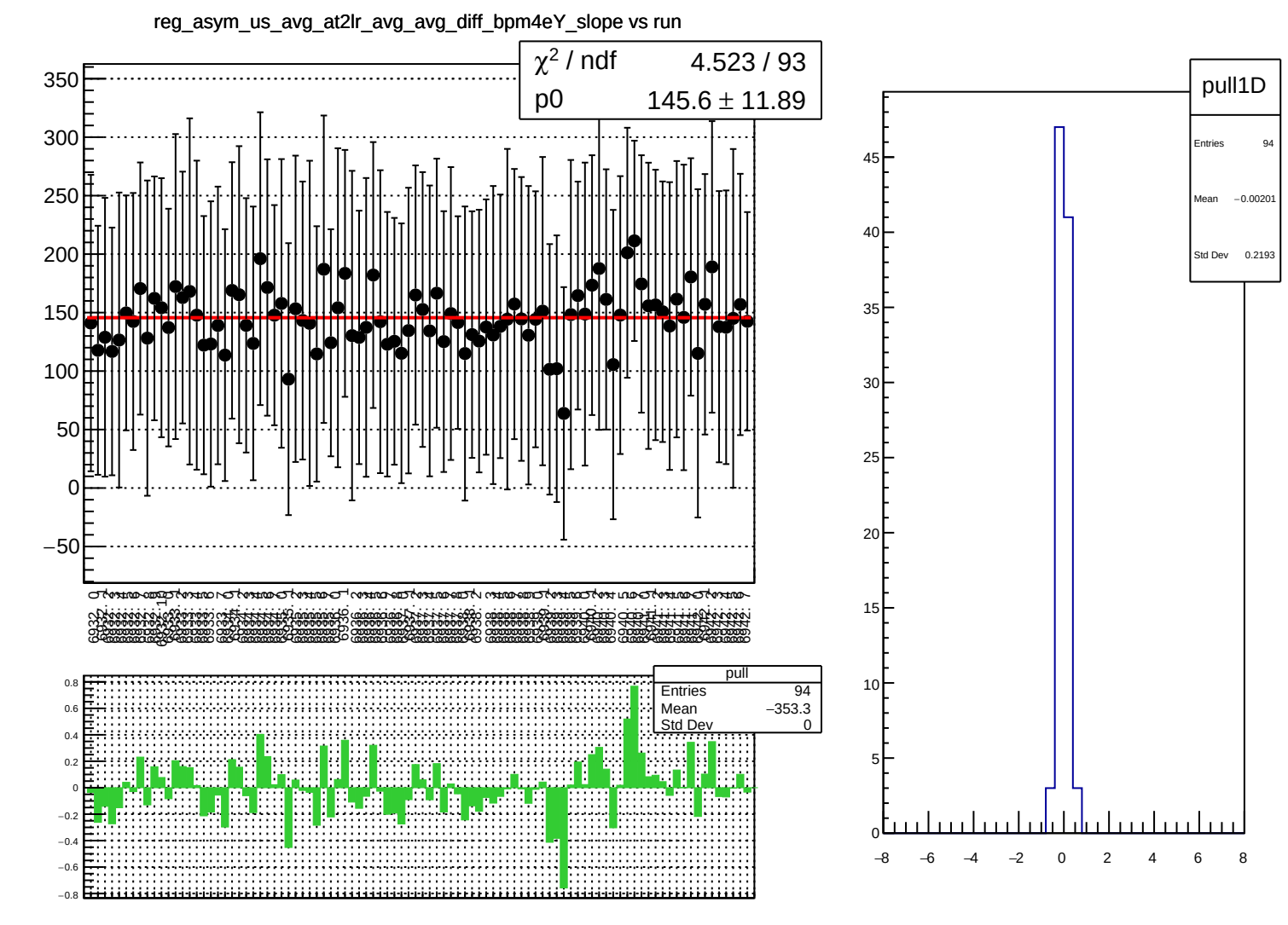

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 137 / 93
p0 −19.06 ± 0.07258
pull
Entries 94
Mean 930.5
Std Dev 0
pull1D
Entries 94
Mean −0.004484
Std Dev 1.207

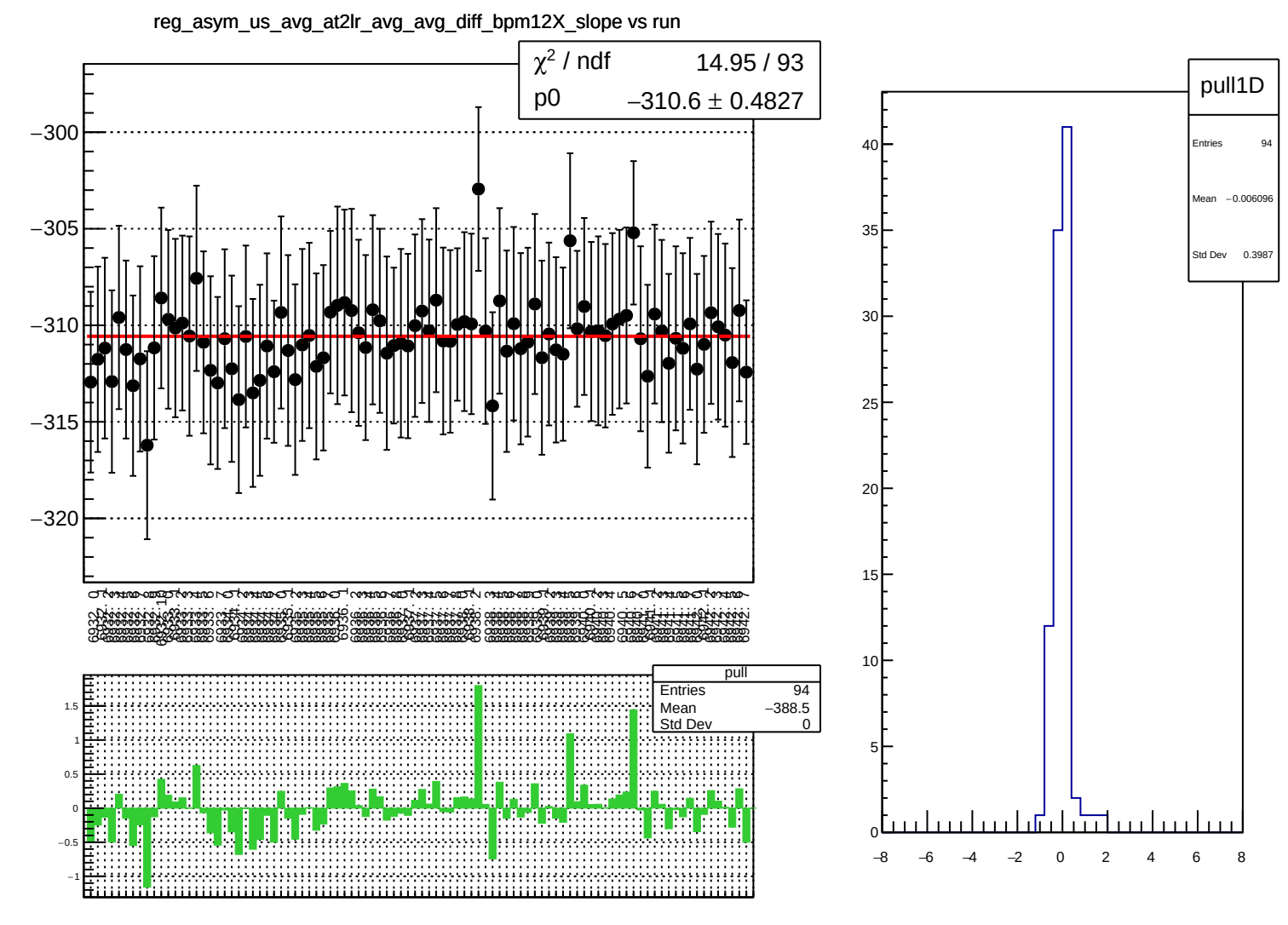

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 11.6 / 93
p0 −601.5 ± 15.32
−300
−400
−500
−600
−700
−800
pull
Entries 94
Mean −50.85
Std Dev 0
1.5
1
0.5
0
−0.5

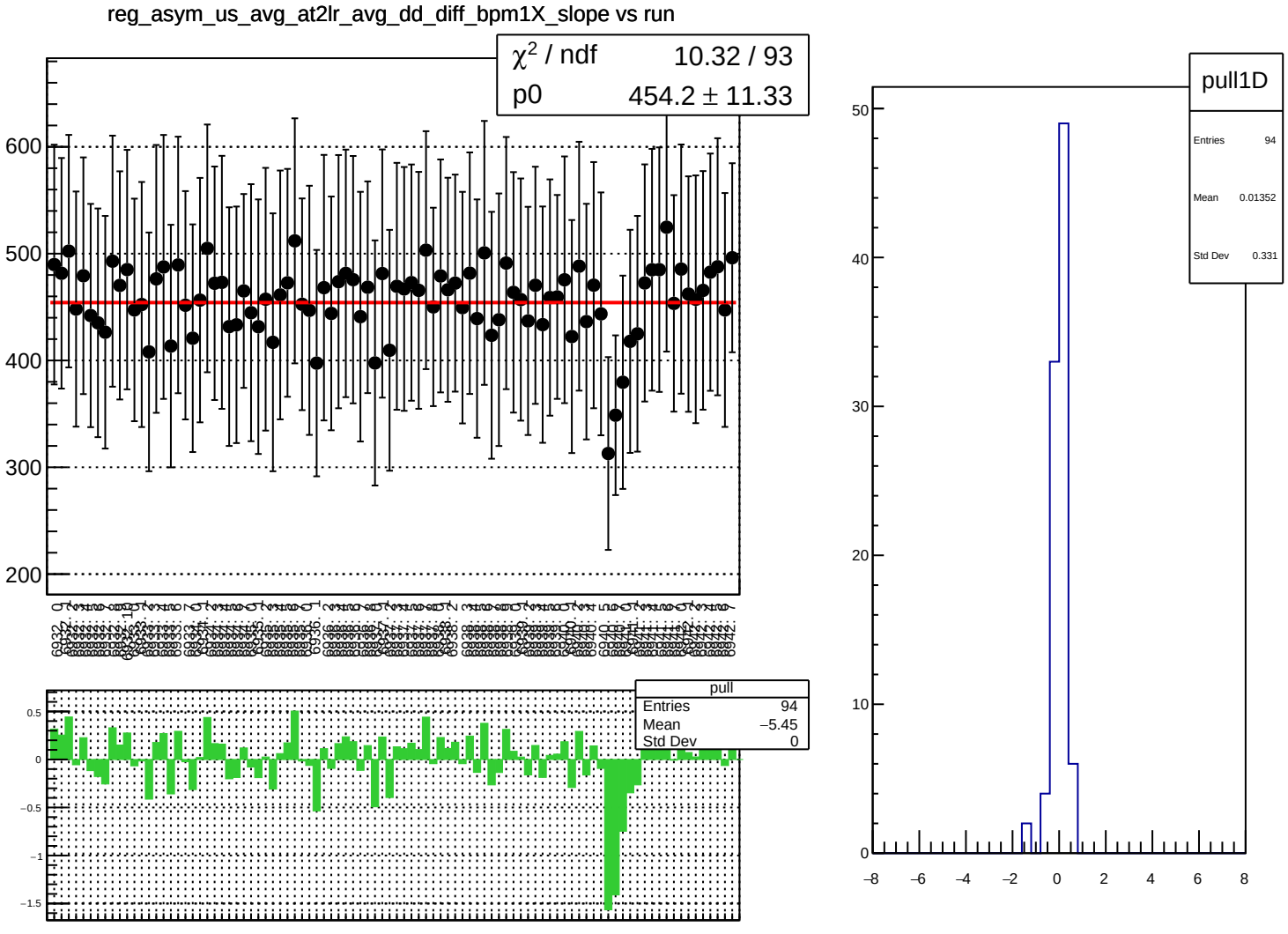

pull1D
Entries 94
Mean −0.01371
Std Dev 0.351
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

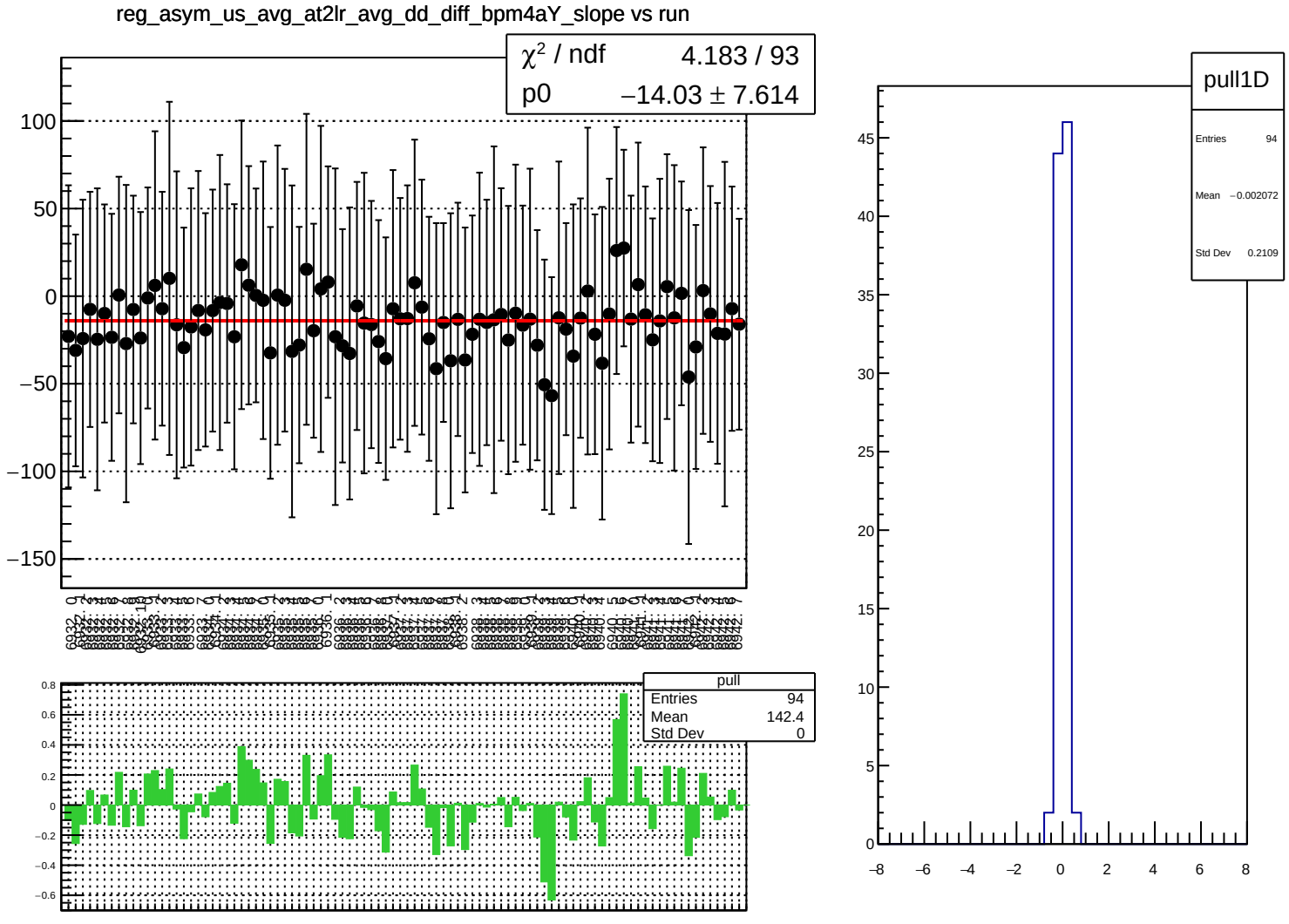

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.975 / 93
p0 10.94 ± 10.29
pull
Entries 94
Mean −343.6
Std Dev 0
pull1D
Entries 94
Mean 0.001611
Std Dev 0.2056

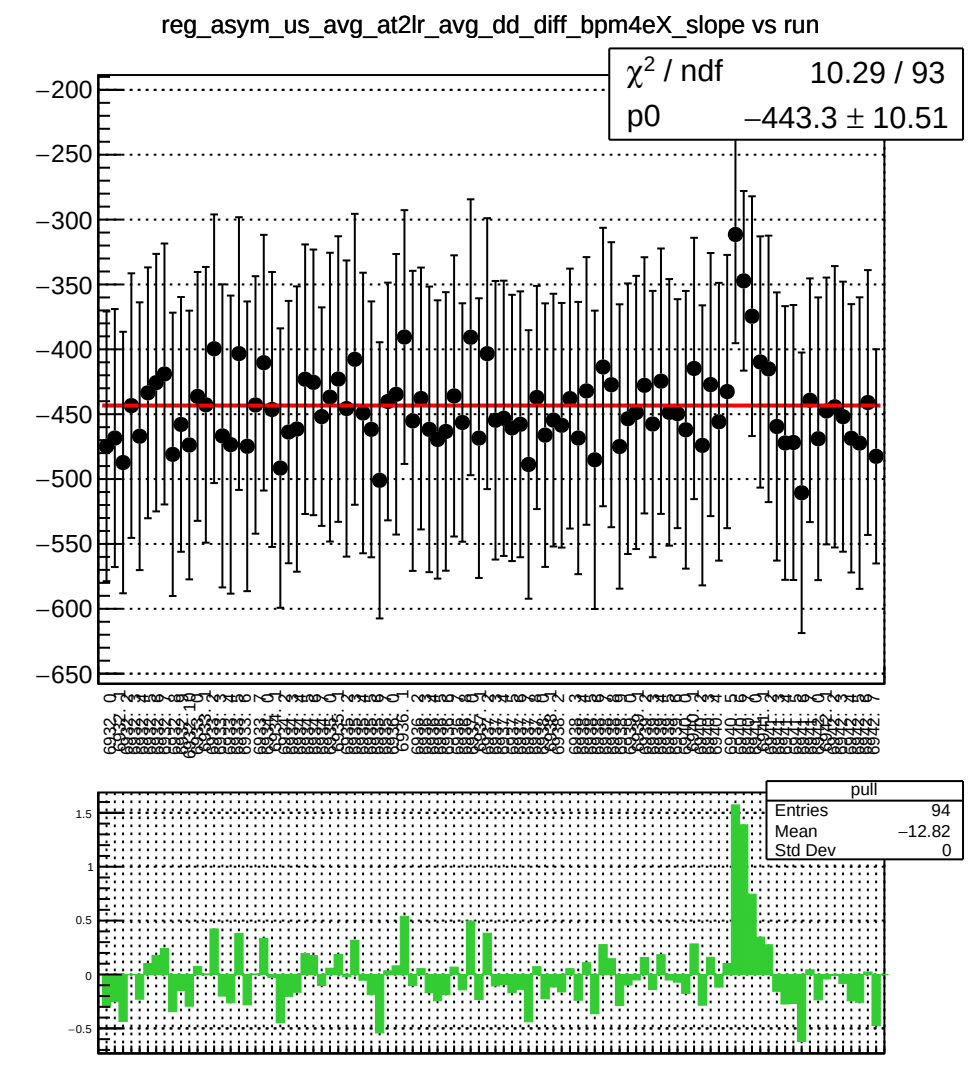

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.61 / 93
p0 581.7 ± 14.2
800
700
600
500
400
300
pull
Entries 94
Mean −56.88
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01415
Std Dev 0.3511
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

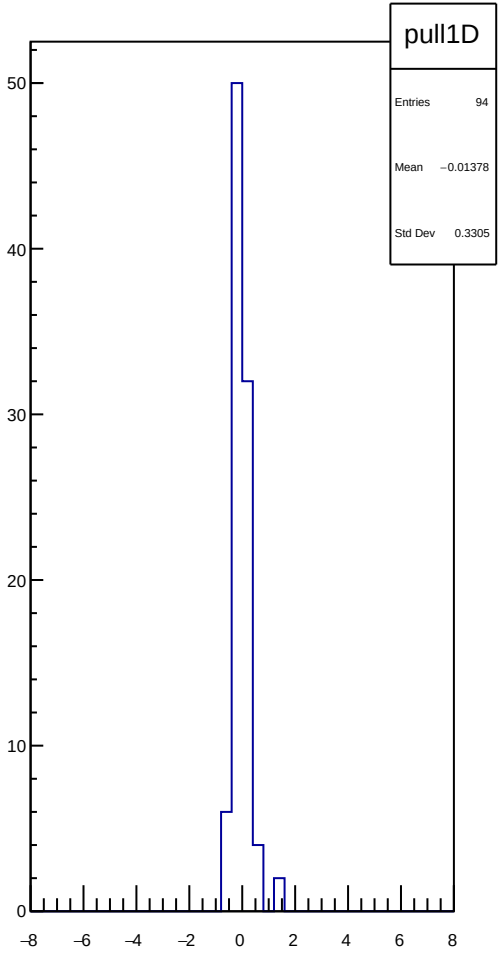

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.523 / 93
p0 145.6 ± 11.89
pull
Entries 94
Mean −353.3
Std Dev 0
pull1D
Entries 94
Mean −0.00201
Std Dev 0.2193

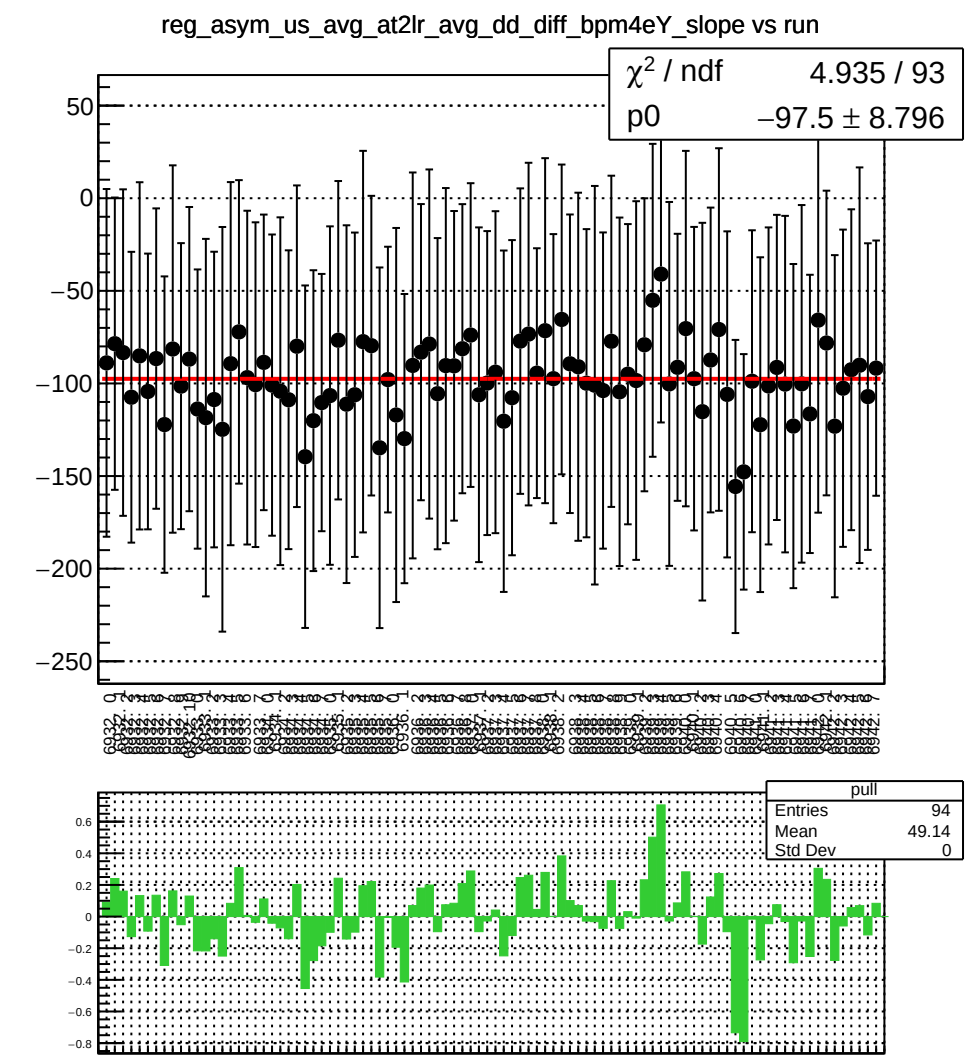

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 14.95 / 93
p0 −310.6 ± 0.4827
−300
−305
−310
−315
−320
pull
Entries 94
Mean −388.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.006096
Std Dev 0.3987
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

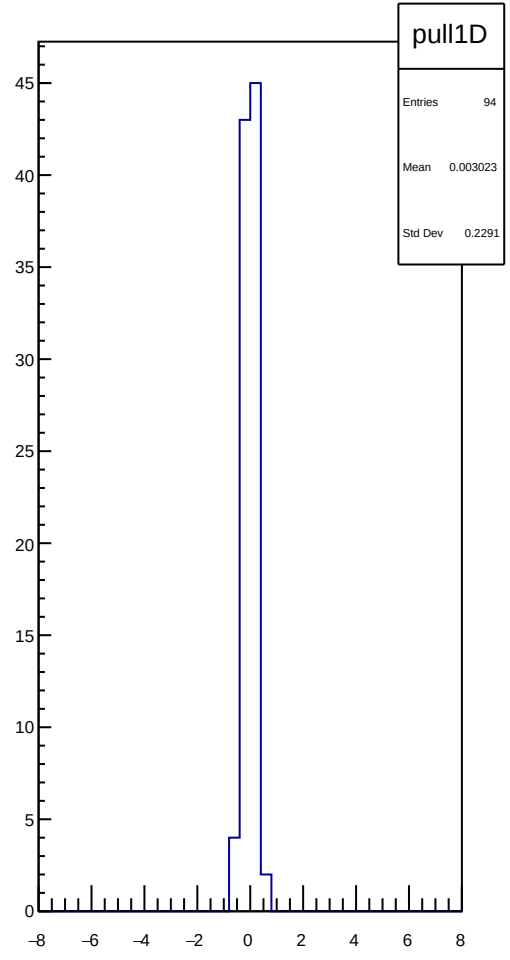

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.32 / 93
p0 454.2 ± 11.33
600
500
400
300
200
pull
Entries 94
Mean −5.45
Std Dev 0
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.01352
Std Dev 0.331
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

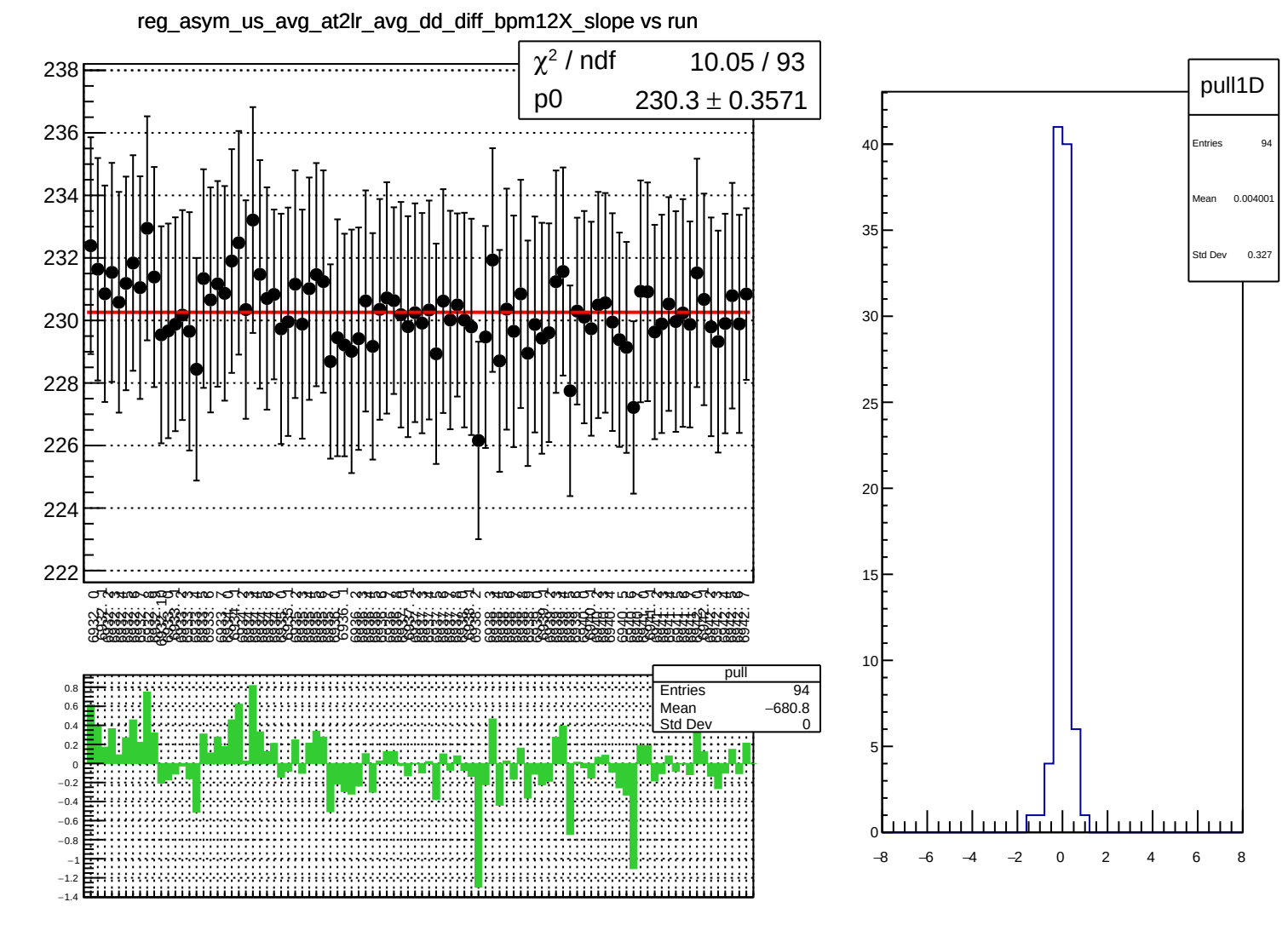

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.183 / 93
p0 −14.03 ± 7.614
100
50
0
−50
−100
−150
pull
Entries 94
Mean 142.4
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.002072
Std Dev 0.2109
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

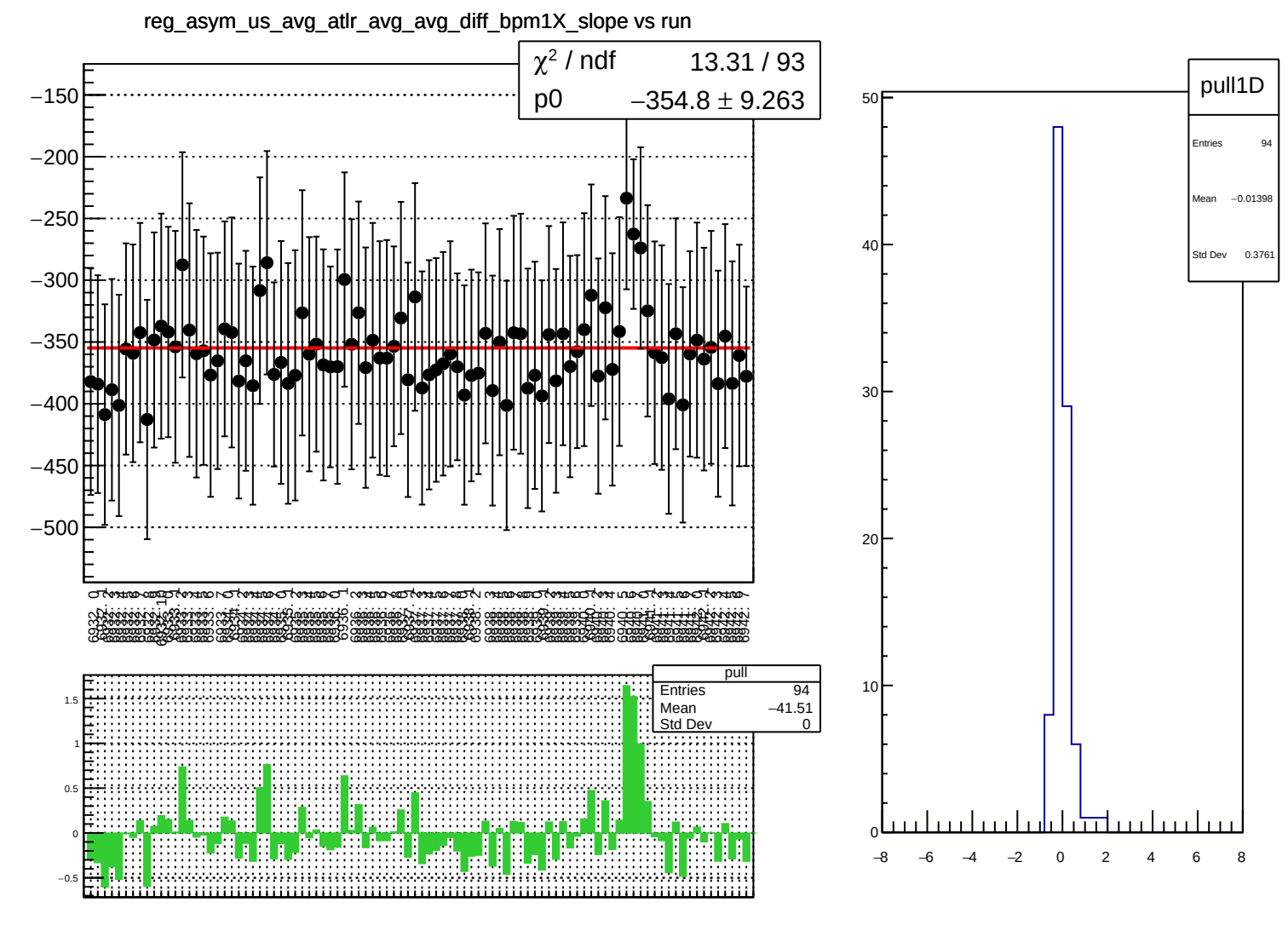

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.29 / 93
p0 −443.3 ± 10.51
pull
Entries 94
Mean −12.82
Std Dev 0

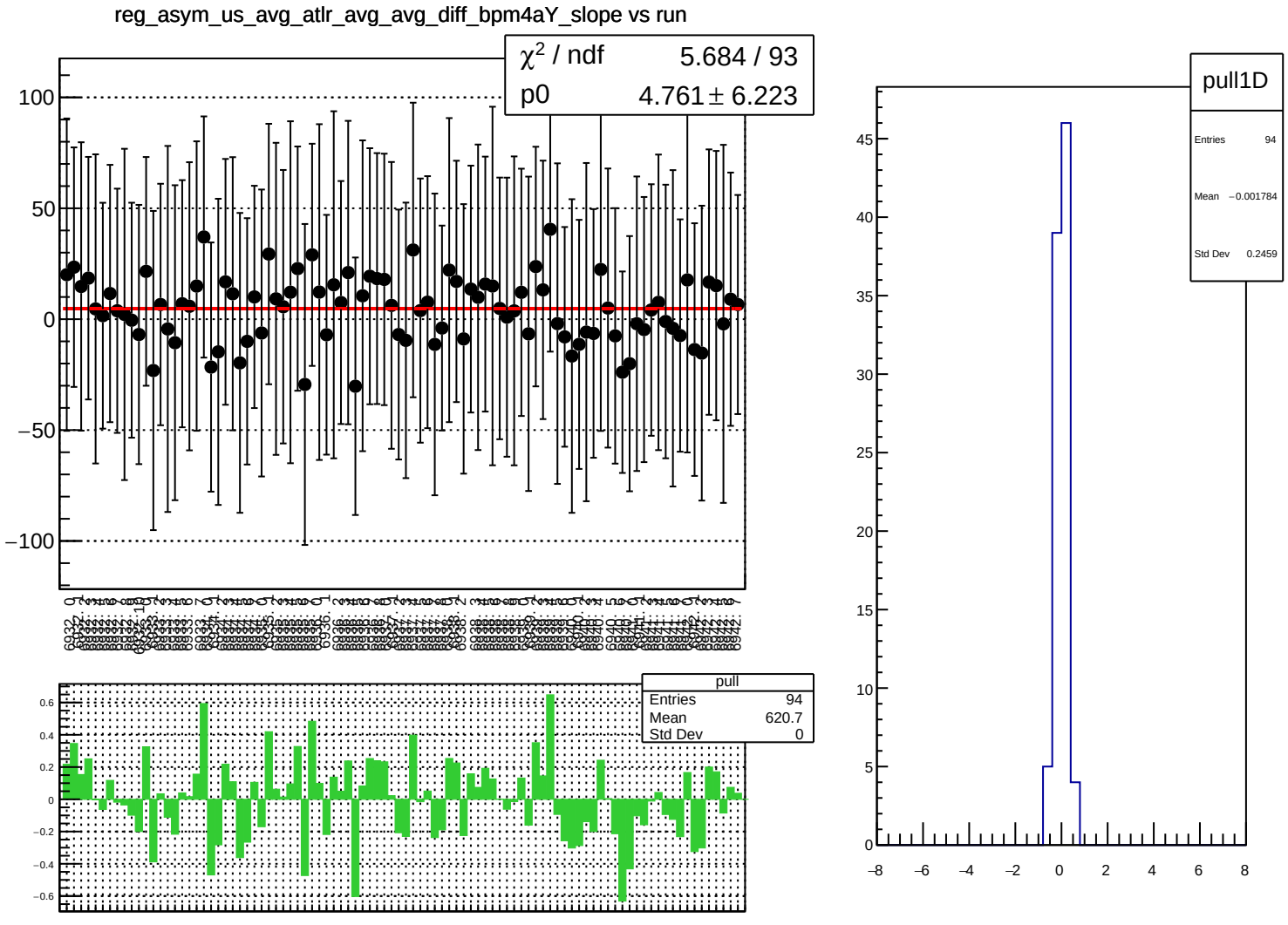

pull1D
Entries 94
Mean −0.01378
Std Dev 0.3305

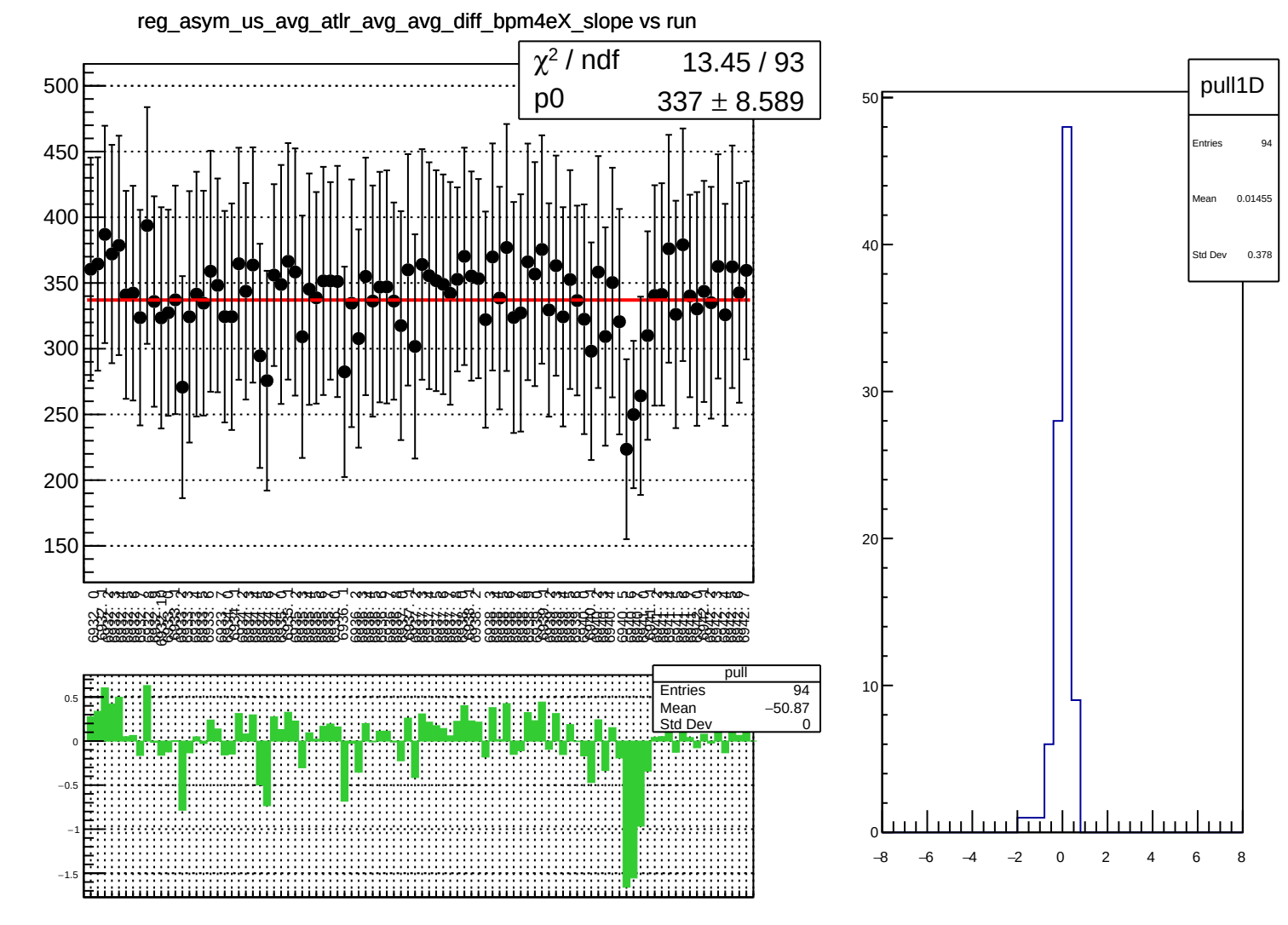

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.935 / 93
p0 −97.5 ± 8.796
50
0
−50
−100
−150
−200
−250
pull
Entries 94
Mean 49.14
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

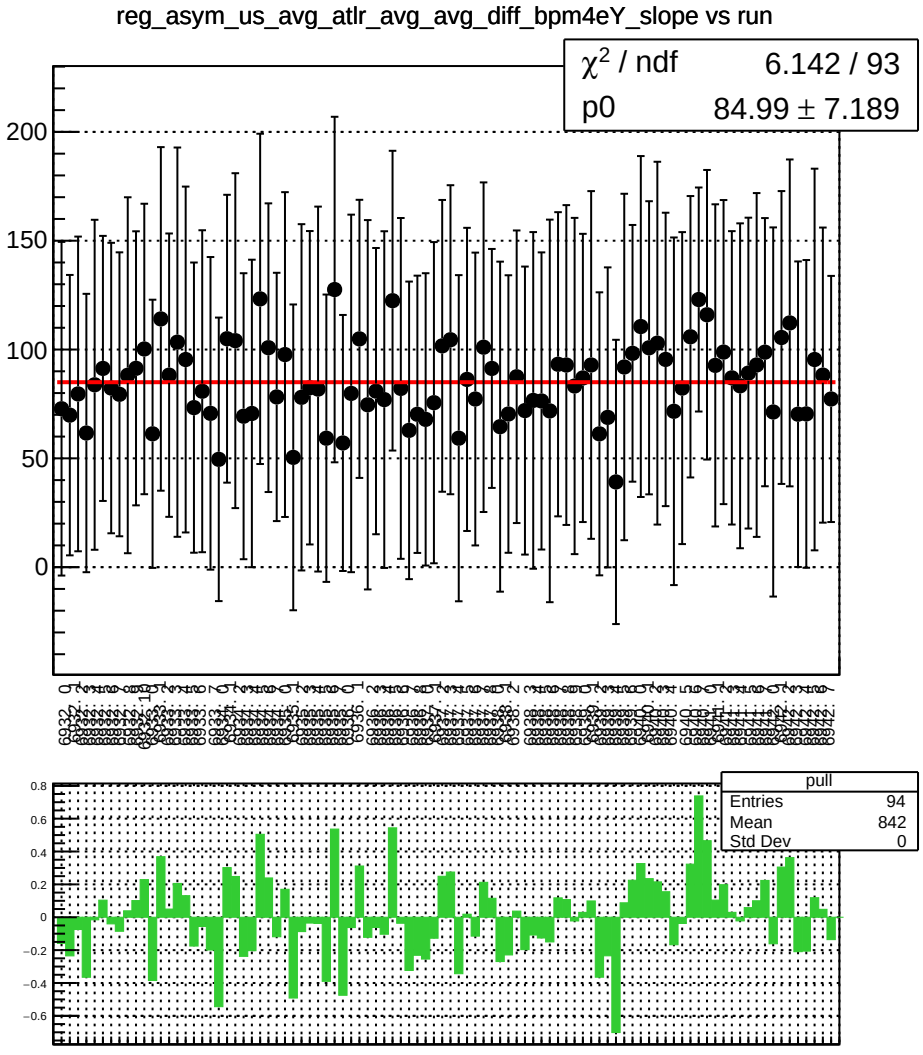

pull1D
Entries 94
Mean 0.003023
Std Dev 0.2291
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

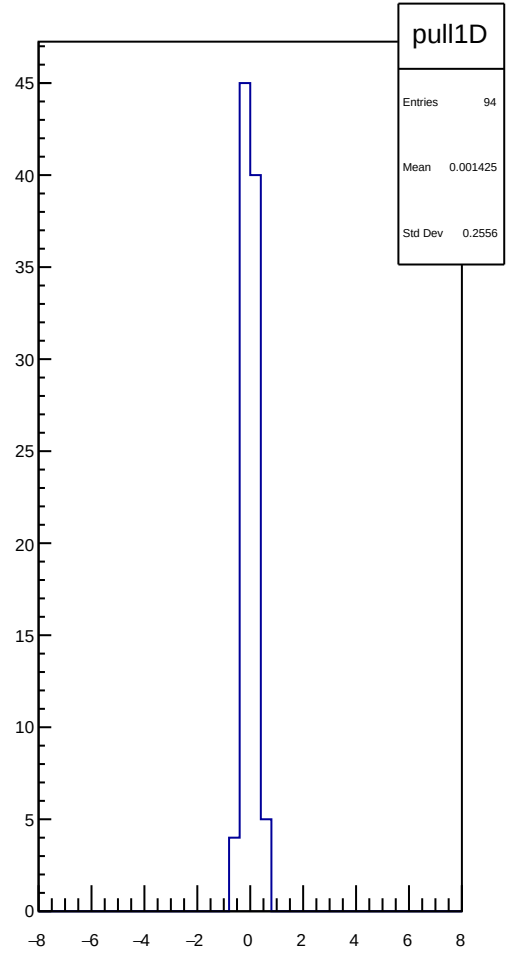

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 10.05 / 93
p0 230.3 ± 0.3571
238
236
234
232
230
228
226
224
222
pull
Entries 94
Mean −680.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 94
Mean 0.004001
Std Dev 0.327
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

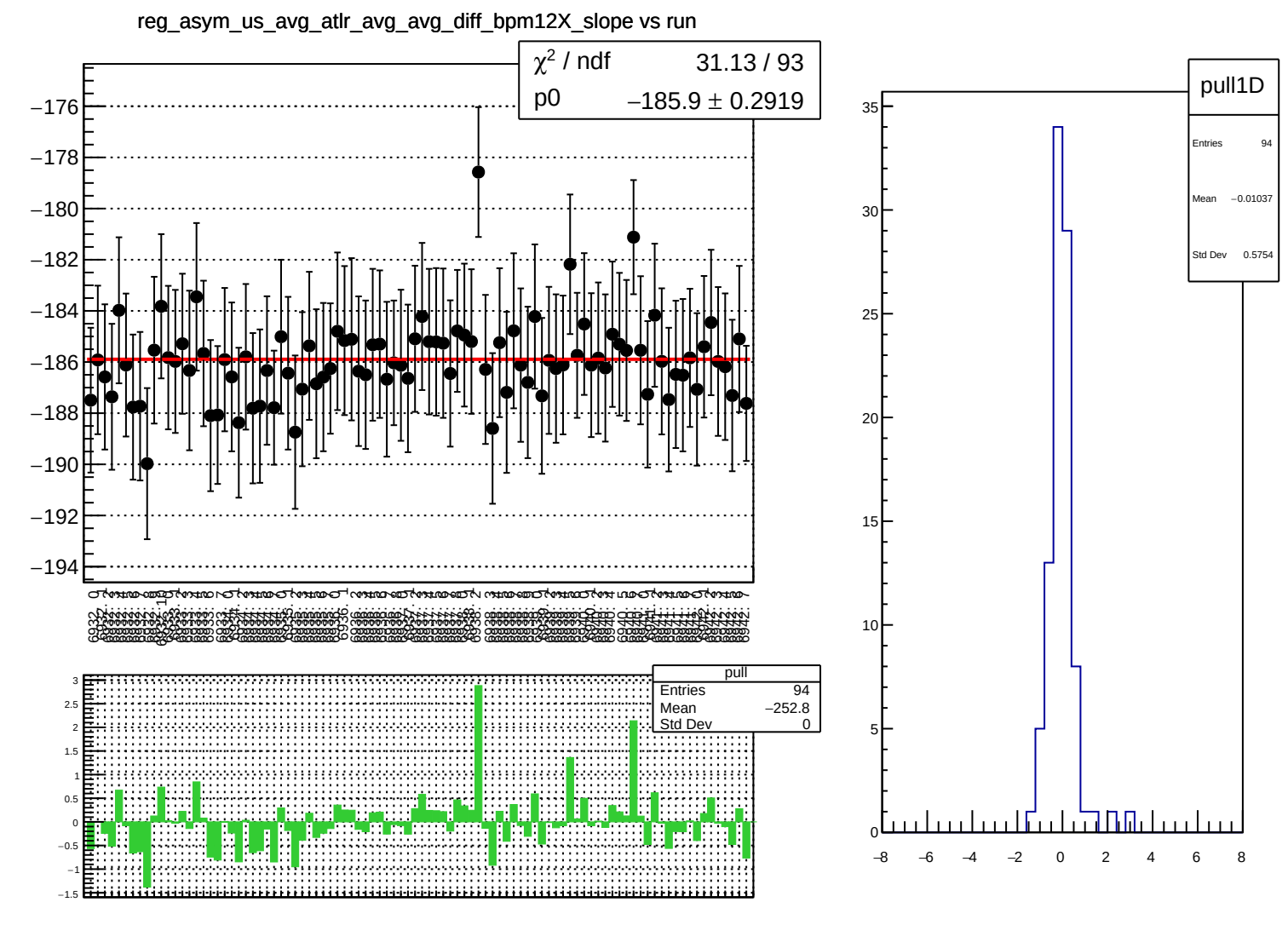

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 13.31 / 93
p0 −354.8 ± 9.263
−150
−200
−250
−300
−350
−400
−450
−500
pull
Entries 94
Mean −41.51
Std Dev 0
1.5
1
0.5
0
−0.5
pull1D
Entries 94
Mean −0.01398
Std Dev 0.3761
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

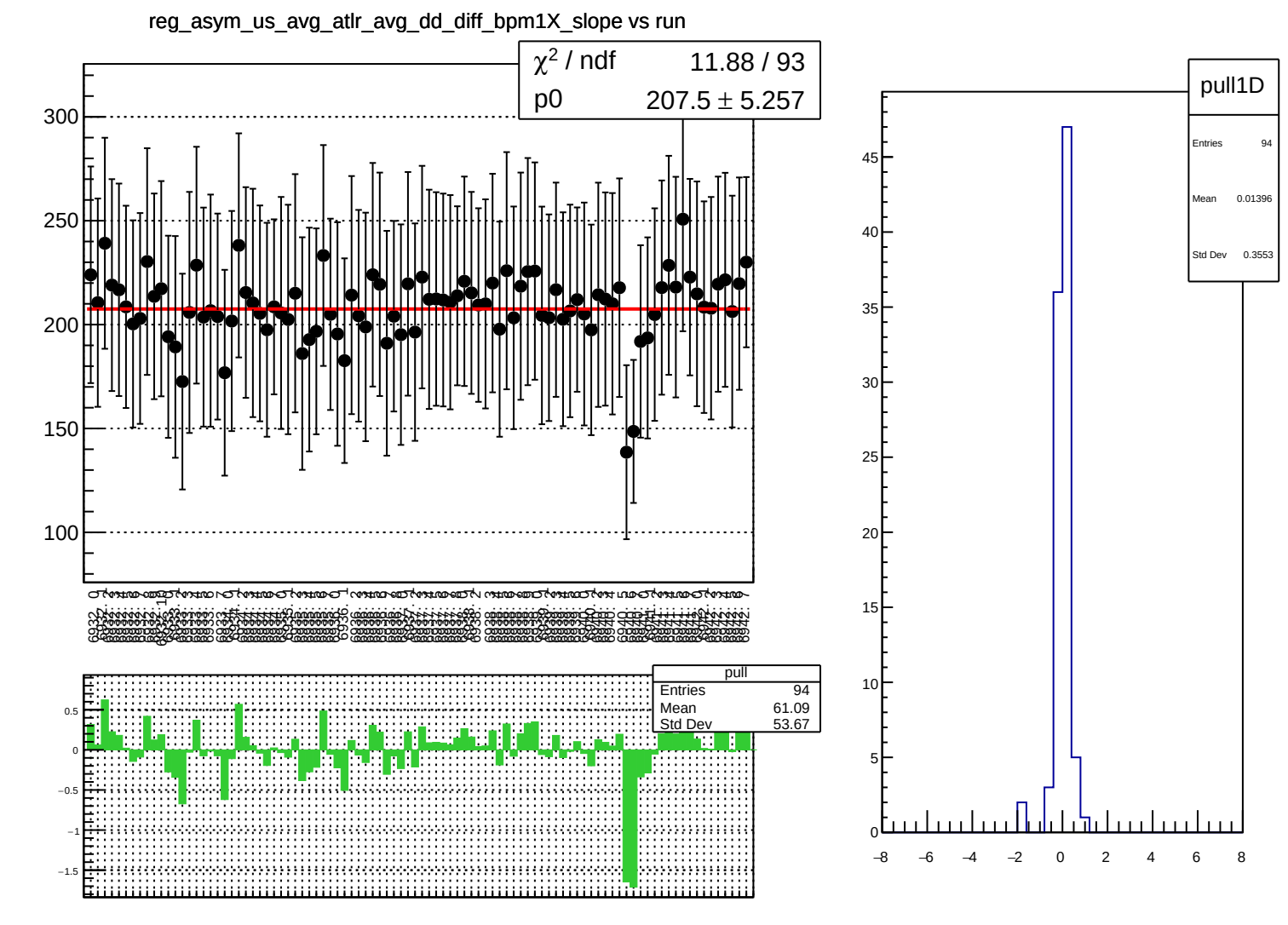

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.684 / 93
p0 4.761 ± 6.223
100
50
0
−50
−100
pull
Entries 94
Mean 620.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.001784
Std Dev 0.2459
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

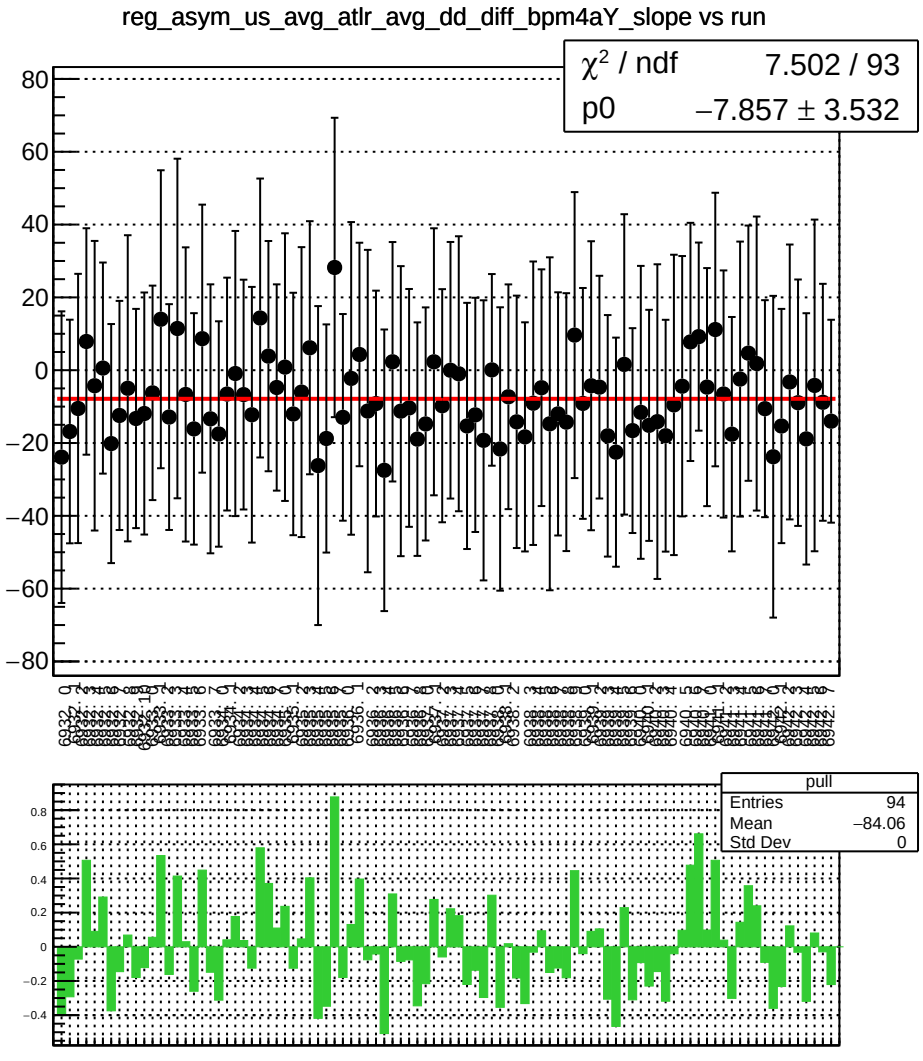

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.45 / 93
p0 337 ± 8.589
pull
Entries 94
Mean −50.87
Std Dev 0
pull1D
Entries 94
Mean 0.01455
Std Dev 0.378

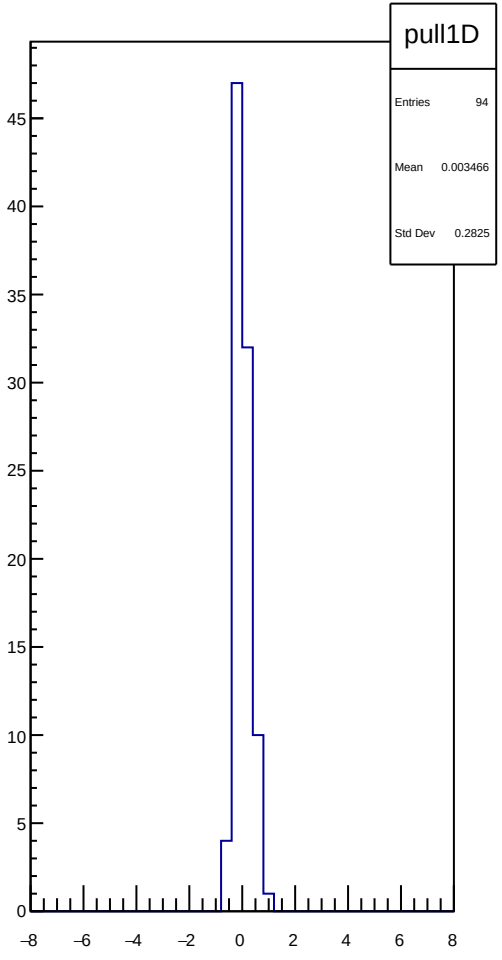

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.142 / 93
p0 84.99 ± 7.189
200
150
100
50
0
pull
Entries 94
Mean 842
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

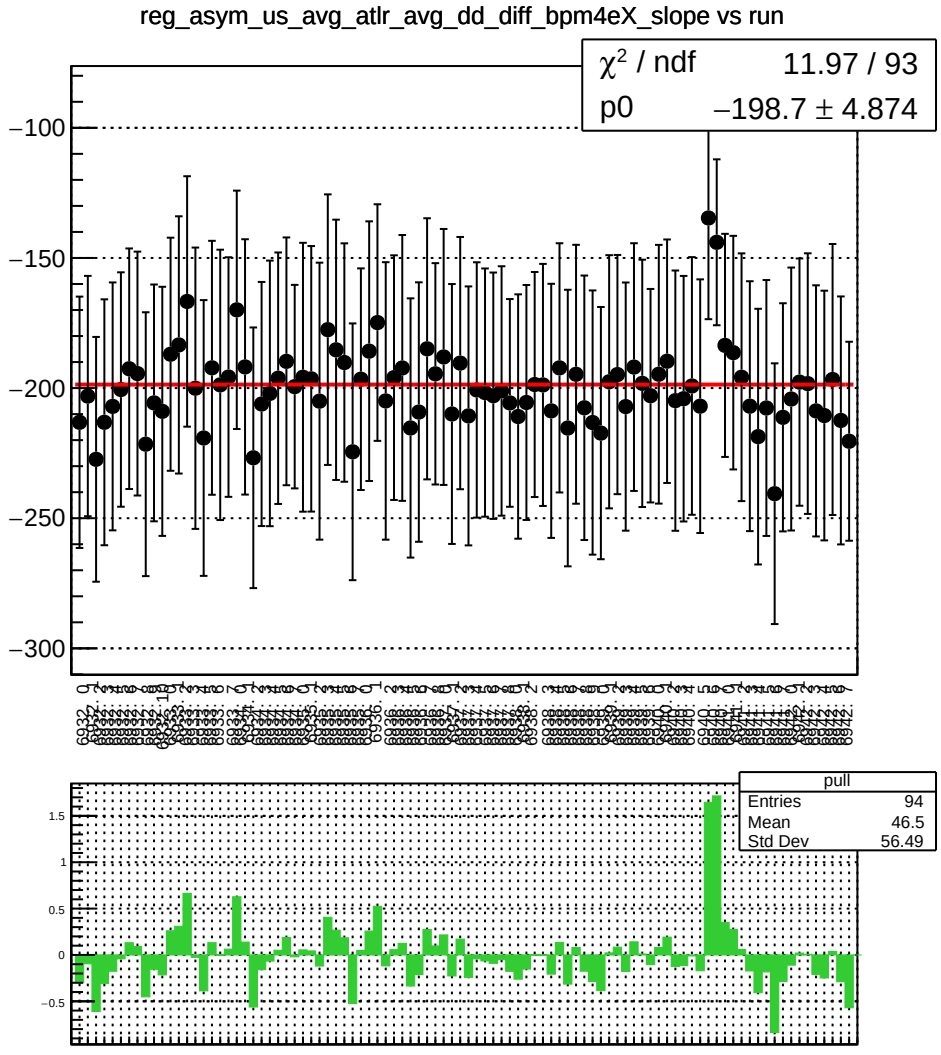

pull1D
Entries 94
Mean 0.001425
Std Dev 0.2556
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

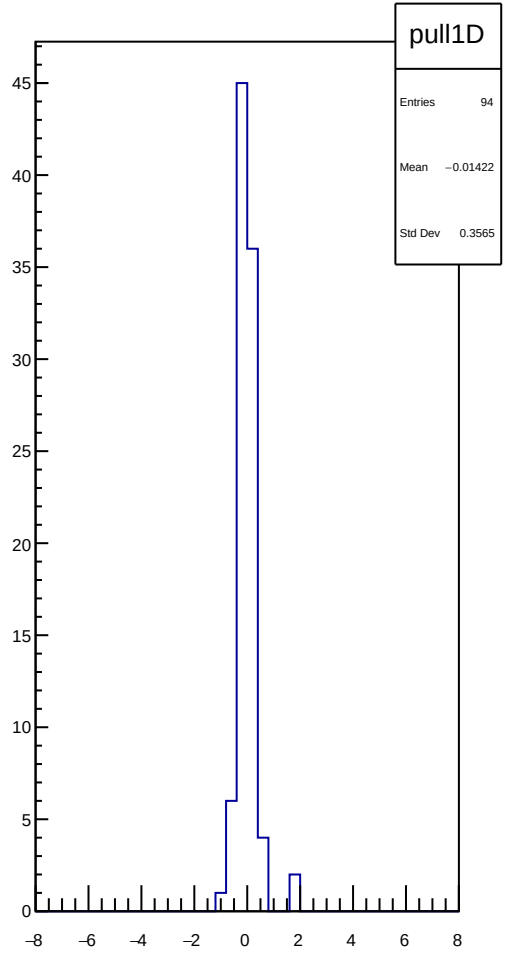

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 31.13 / 93
p0 −185.9 ± 0.2919
pull
Entries 94
Mean −252.8
Std Dev 0
pull1D
Entries 94
Mean −0.01037
Std Dev 0.5754

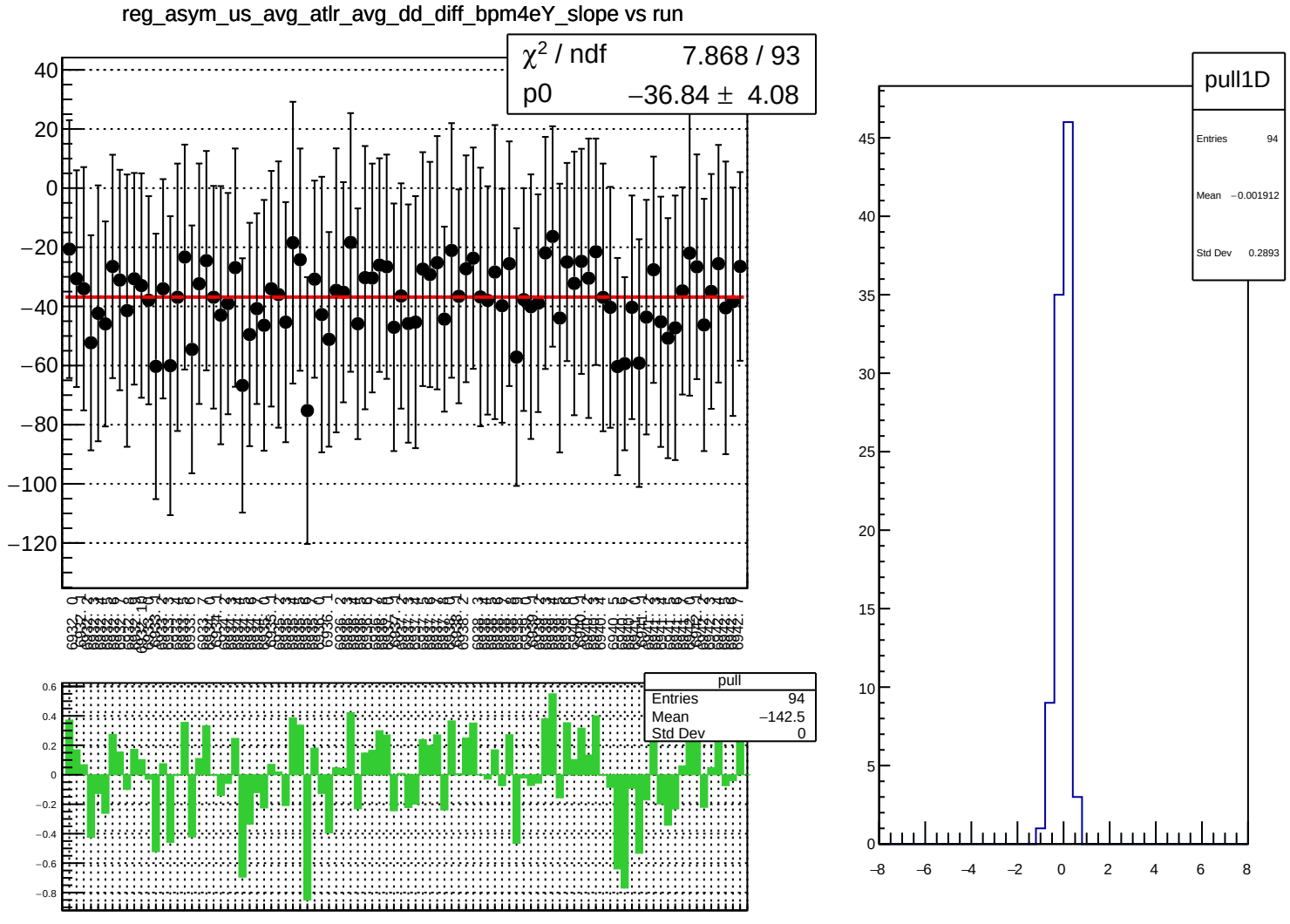

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.88 / 93
p0 207.5 ± 5.257
pull
Entries 94
Mean 61.09
Std Dev 53.67
pull1D
Entries 94
Mean 0.01396
Std Dev 0.3553

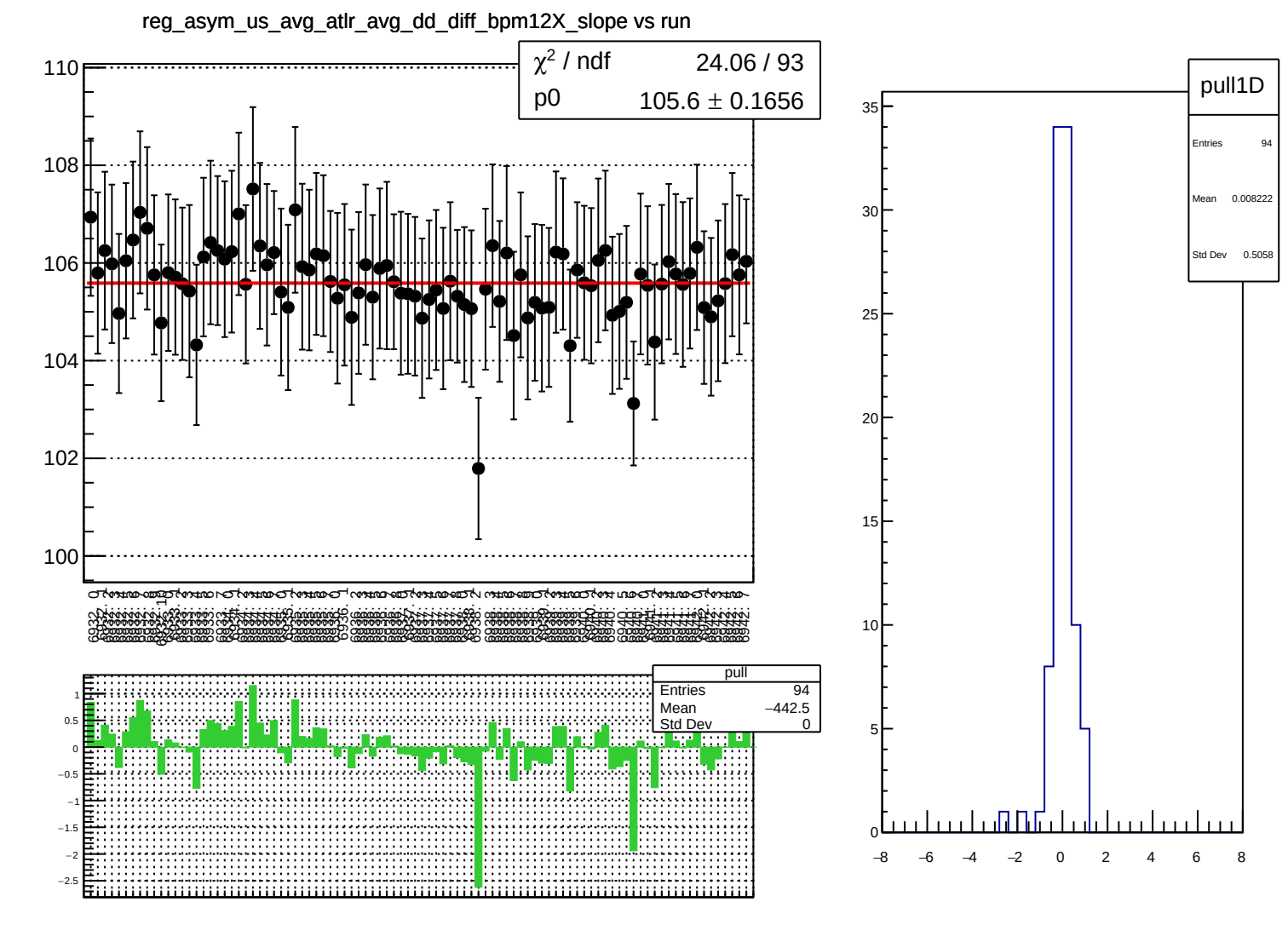

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.502 / 93
p0 −7.857 ± 3.532
pull
Entries 94
Mean −84.06
Std Dev 0

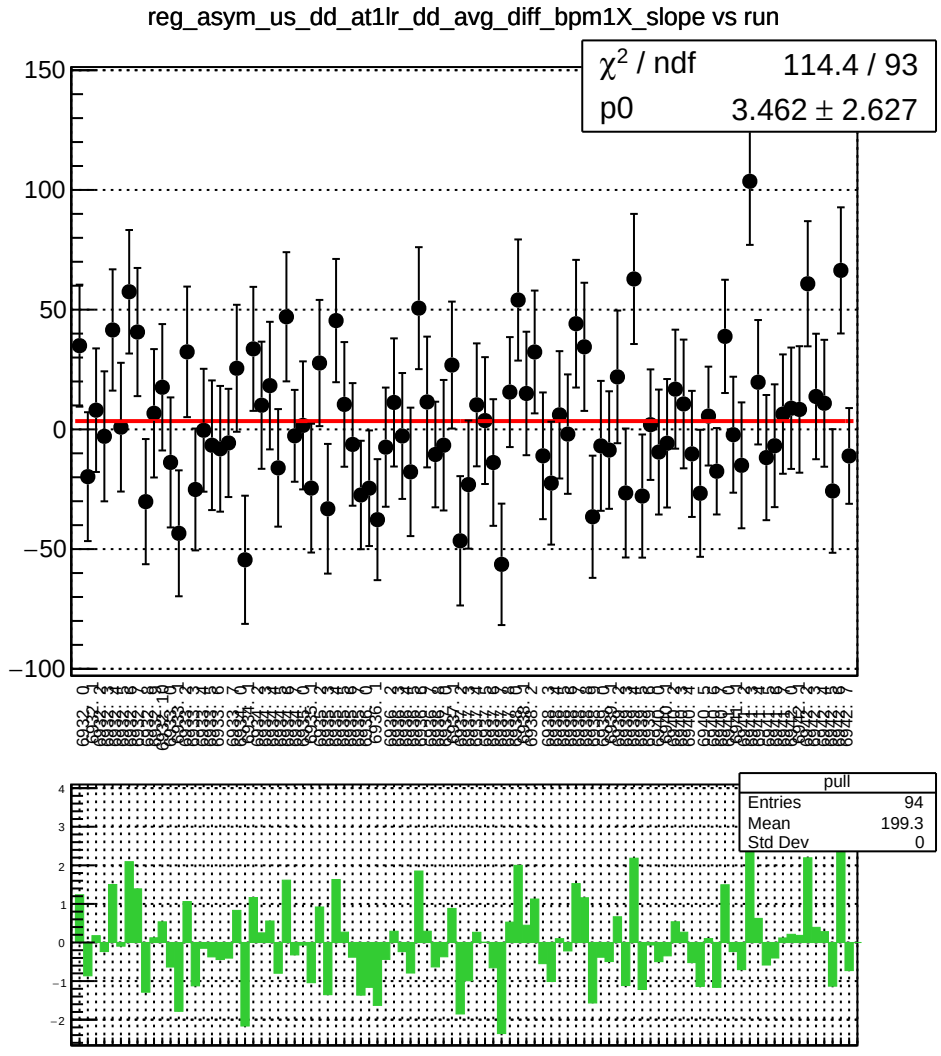

pull1D
Entries 94
Mean 0.003466
Std Dev 0.2825

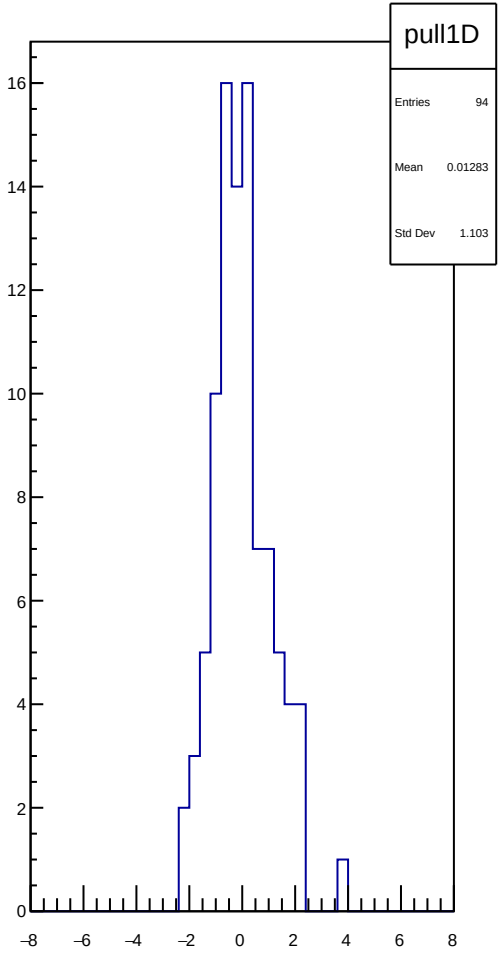

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.97 / 93
p0 −198.7 ± 4.874
−100
−150
−200
−250
−300
pull
Entries 94
Mean 46.5
Std Dev 56.49
1.5
1
0.5
0
−0.5

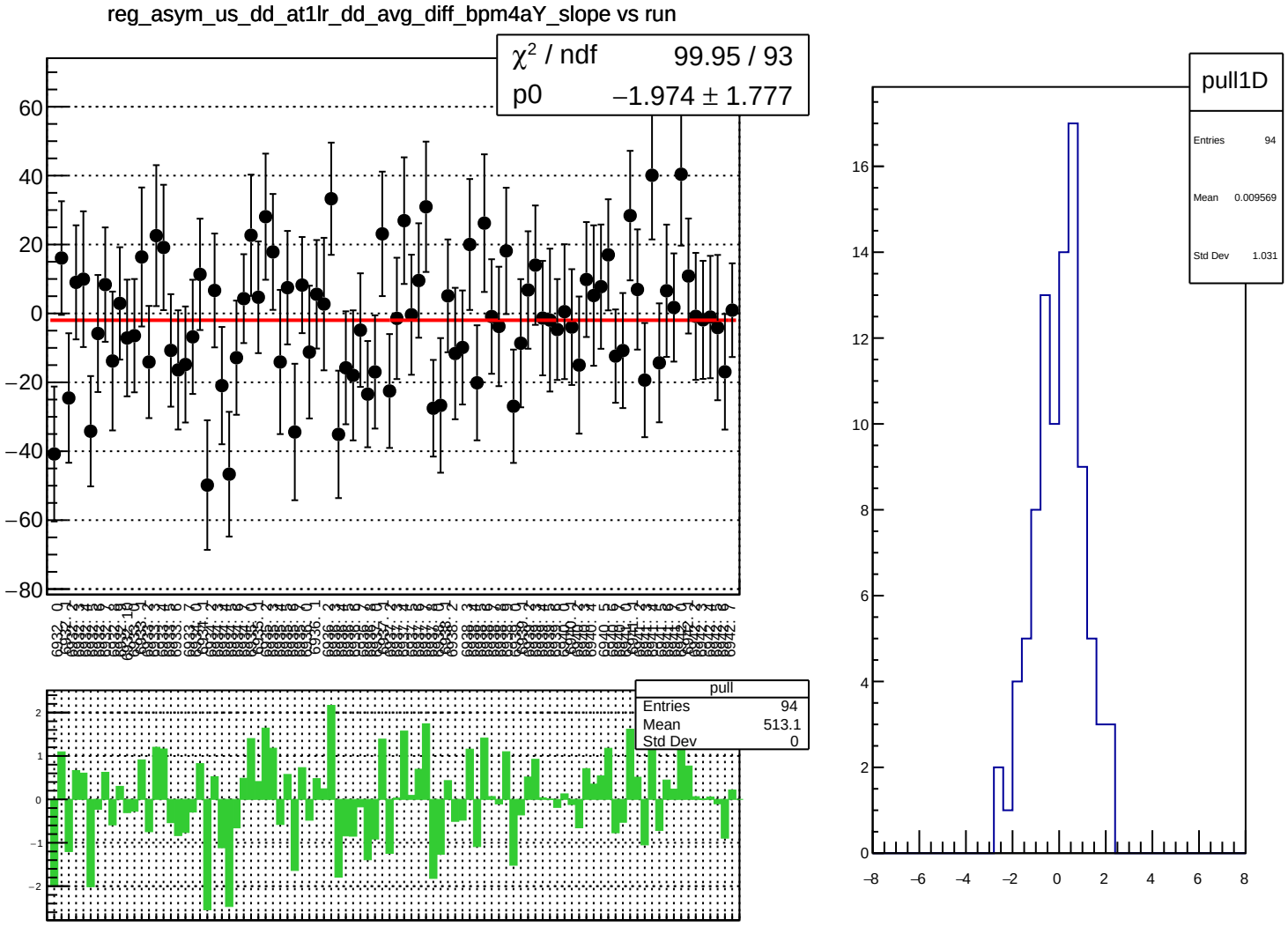

pull1D
Entries 94
Mean −0.01422
Std Dev 0.3565
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

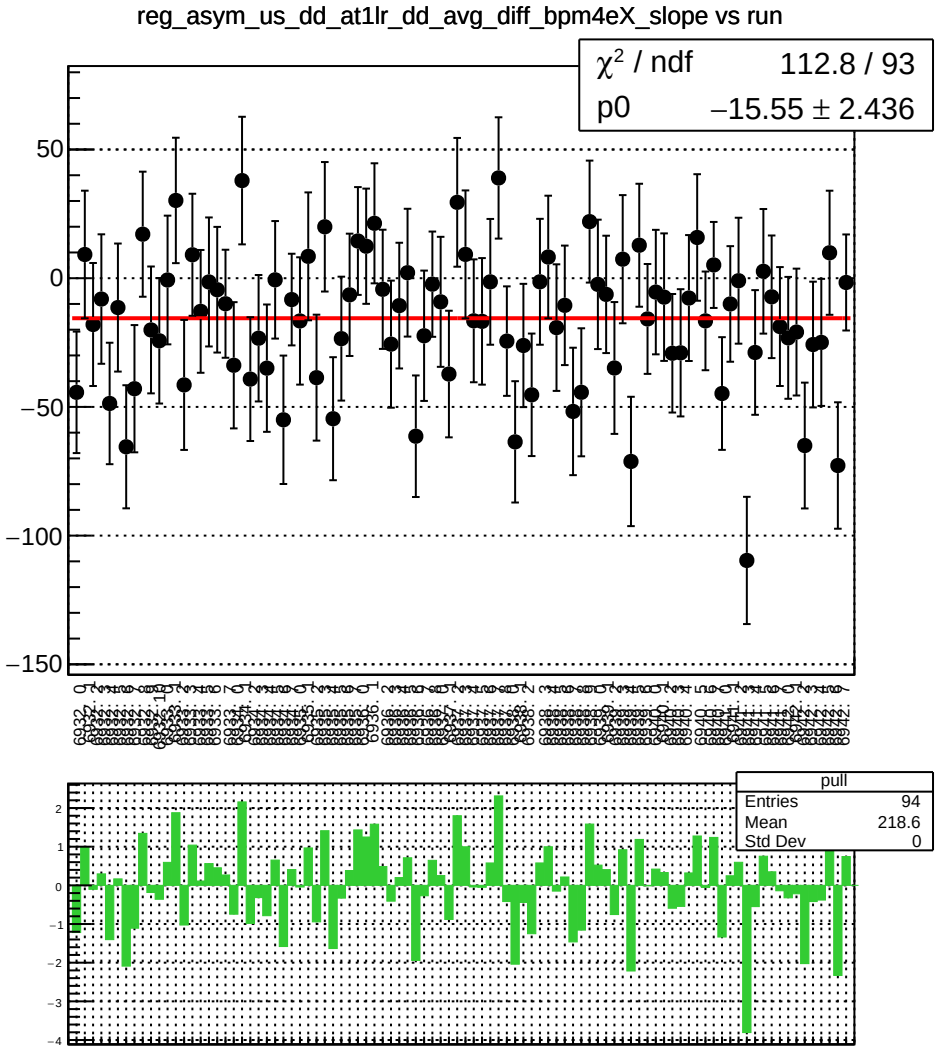

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 7.868 / 93
p0 −36.84 ± 4.08
pull
Entries 94
Mean −142.5
Std Dev 0
pull1D
Entries 94
Mean −0.001912
Std Dev 0.2893

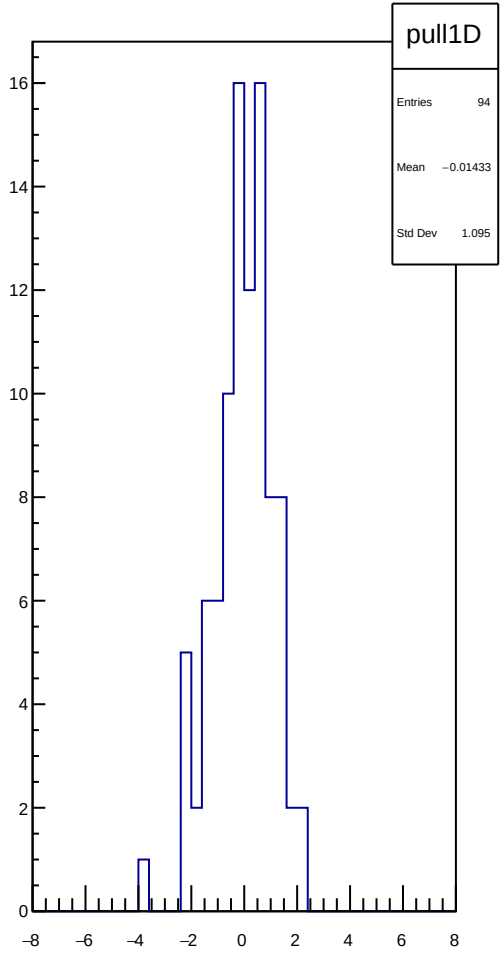

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 24.06 / 93
p0 105.6 ± 0.1656
pull
Entries 94
Mean −442.5
Std Dev 0
pull1D
Entries 94
Mean 0.008222
Std Dev 0.5058

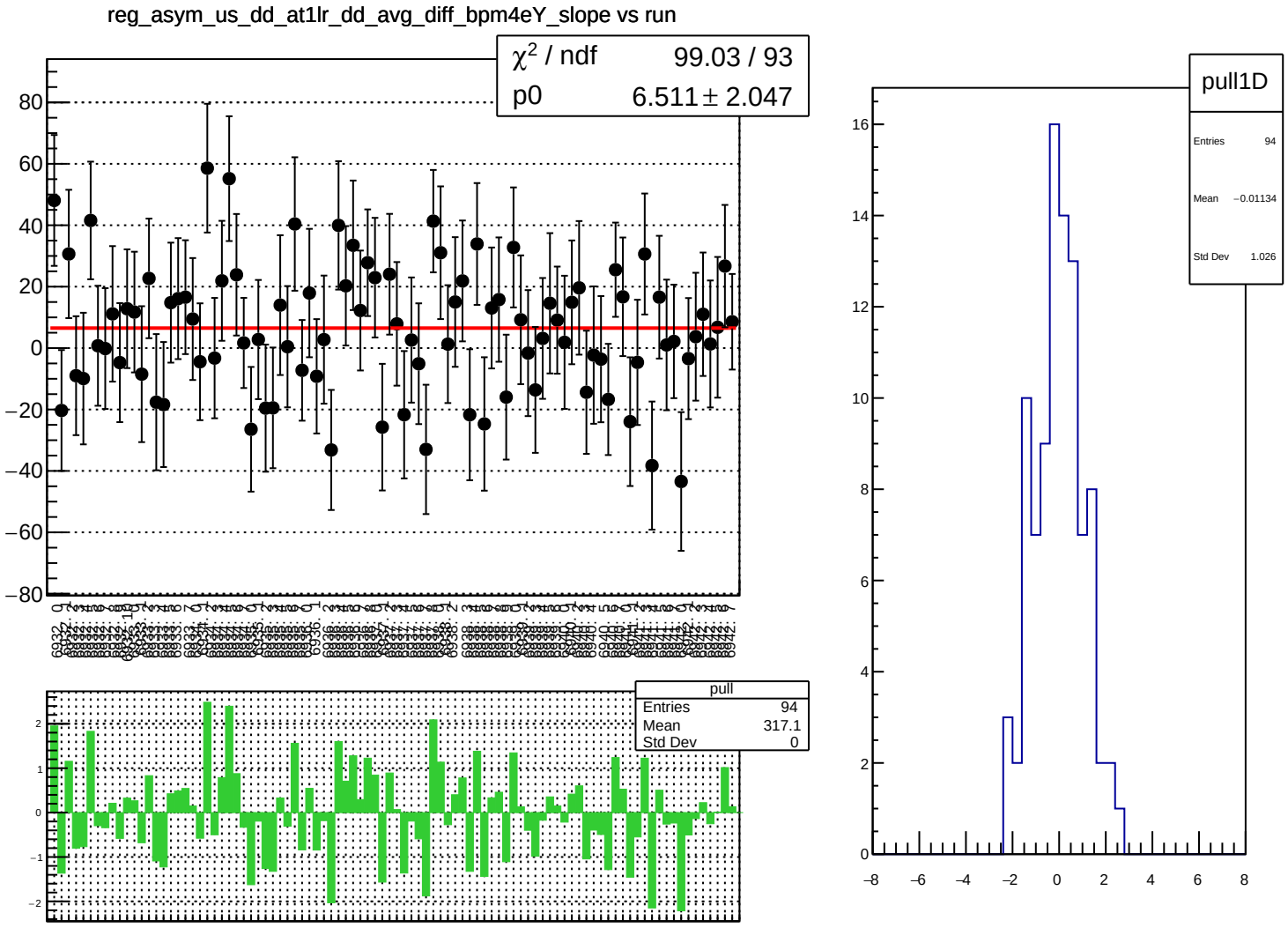

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 114.4 / 93
p0 3.462 ± 2.627
150
100
50
0
−50
−100
pull
Entries 94
Mean 199.3
Std Dev 0
4
3
2
1
0
−1
−2

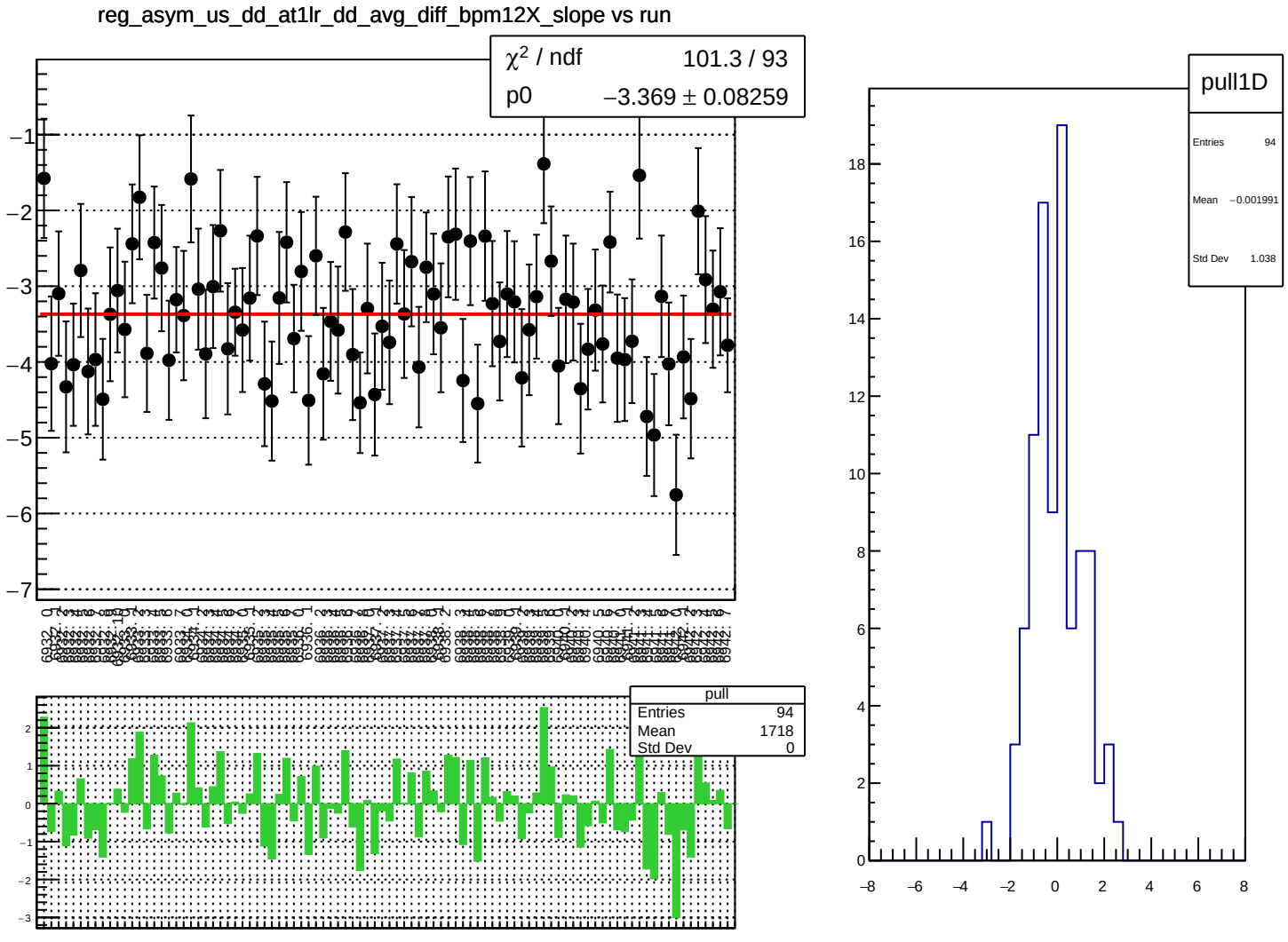

pull1D
Entries 94
Mean 0.01283
Std Dev 1.103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

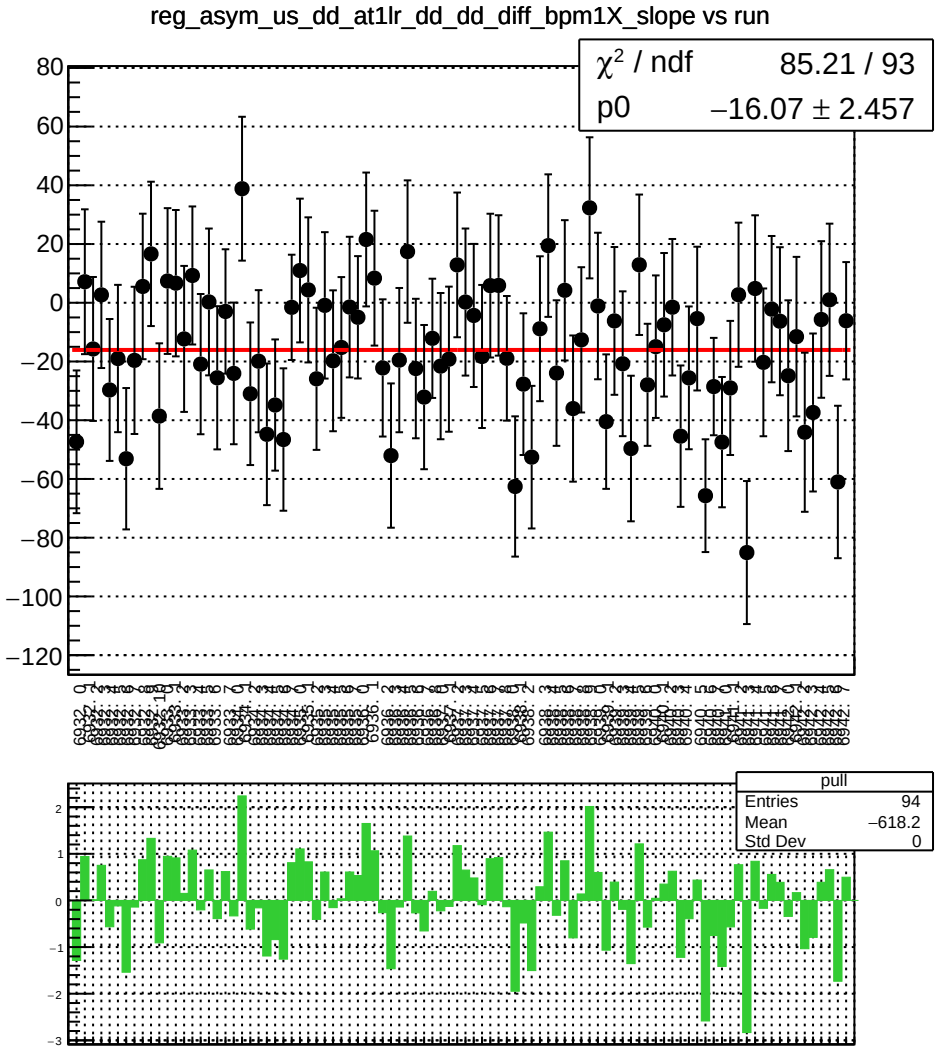

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 99.95 / 93
p0 −1.974 ± 1.777
pull
Entries 94
Mean 513.1
Std Dev 0
pull1D
Entries 94
Mean 0.009569
Std Dev 1.031

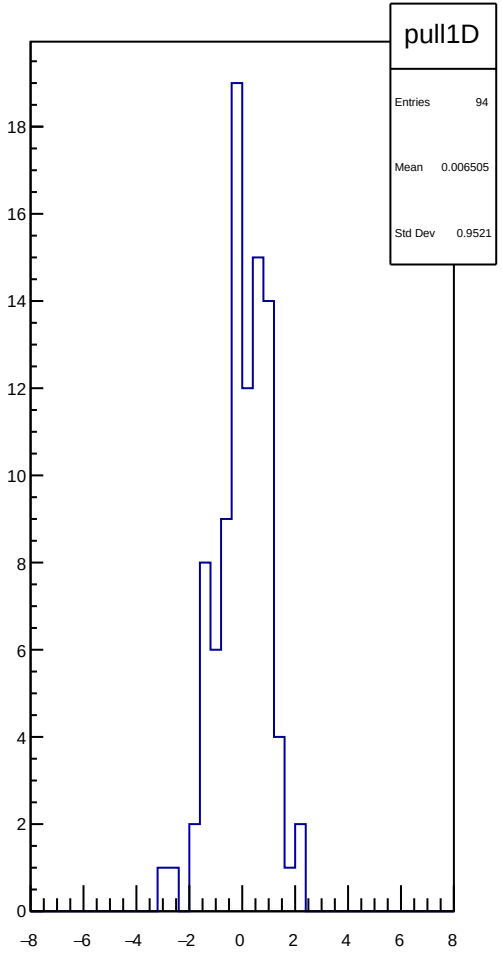

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 112.8 / 93
p0 −15.55 ± 2.436
50
0
−50
−100
−150
pull
Entries 94
Mean 218.6
Std Dev 0
2
1
0
−1
−2
−3
−4

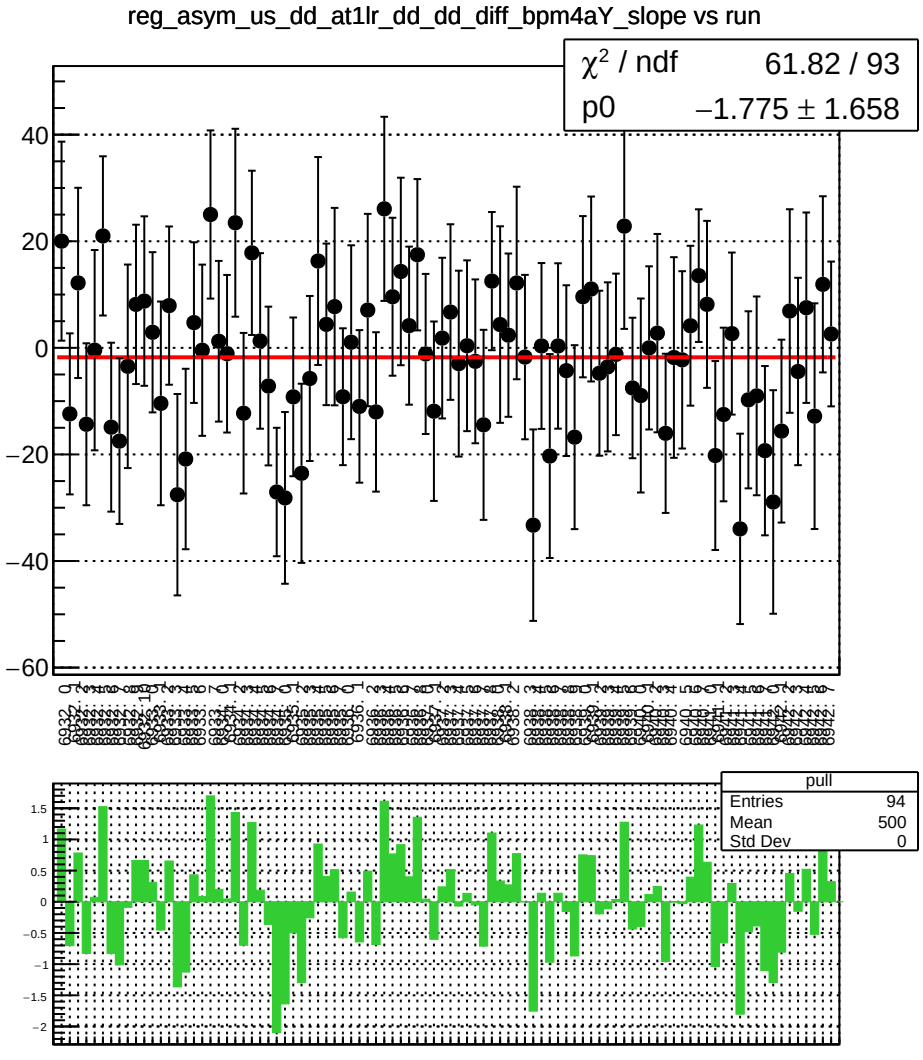

pull1D
Entries 94
Mean −0.01433
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

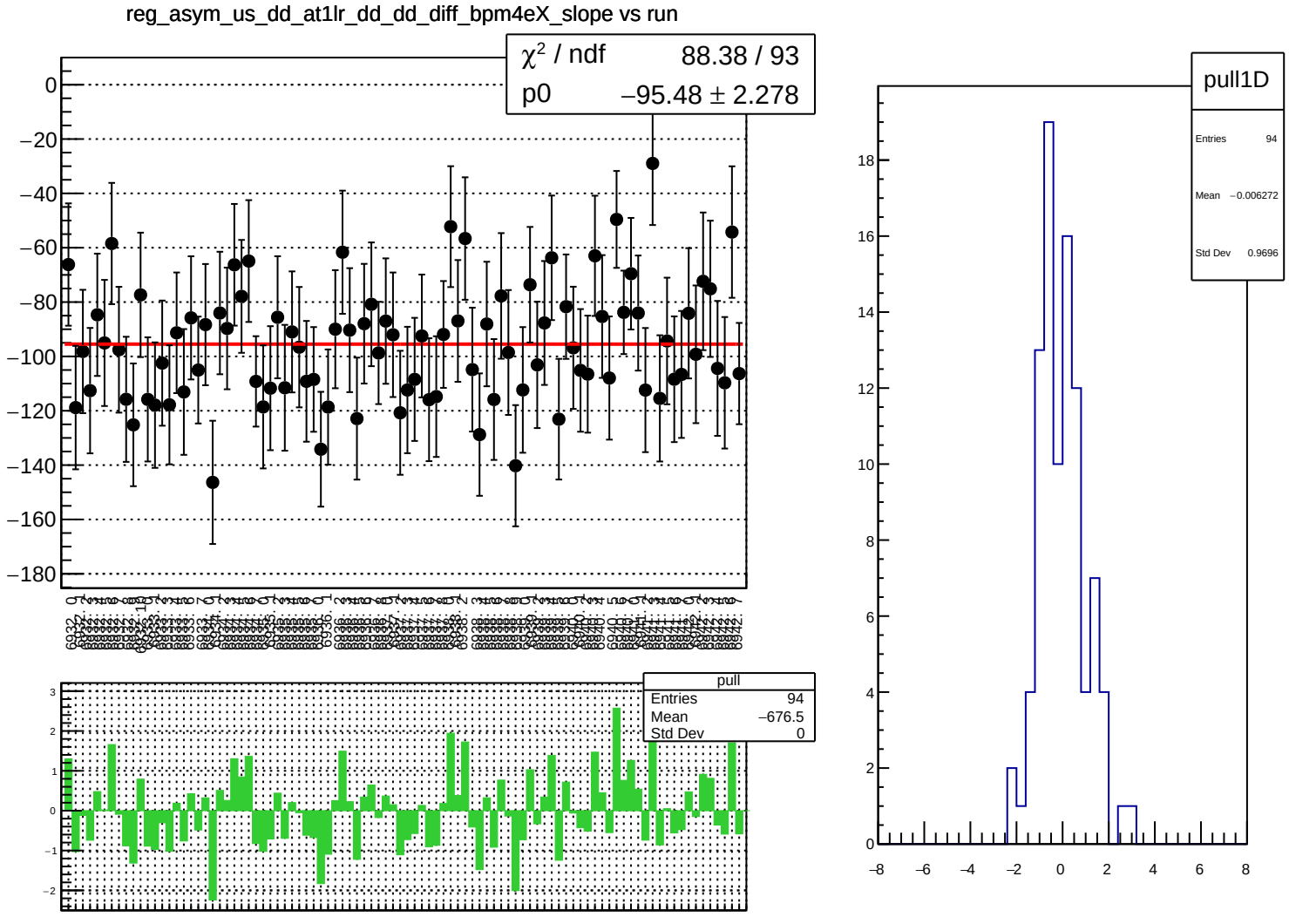

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.03 / 93
p0 6.511 ± 2.047
pull
Entries 94
Mean 317.1
Std Dev 0
pull1D
Entries 94
Mean −0.01134
Std Dev 1.026

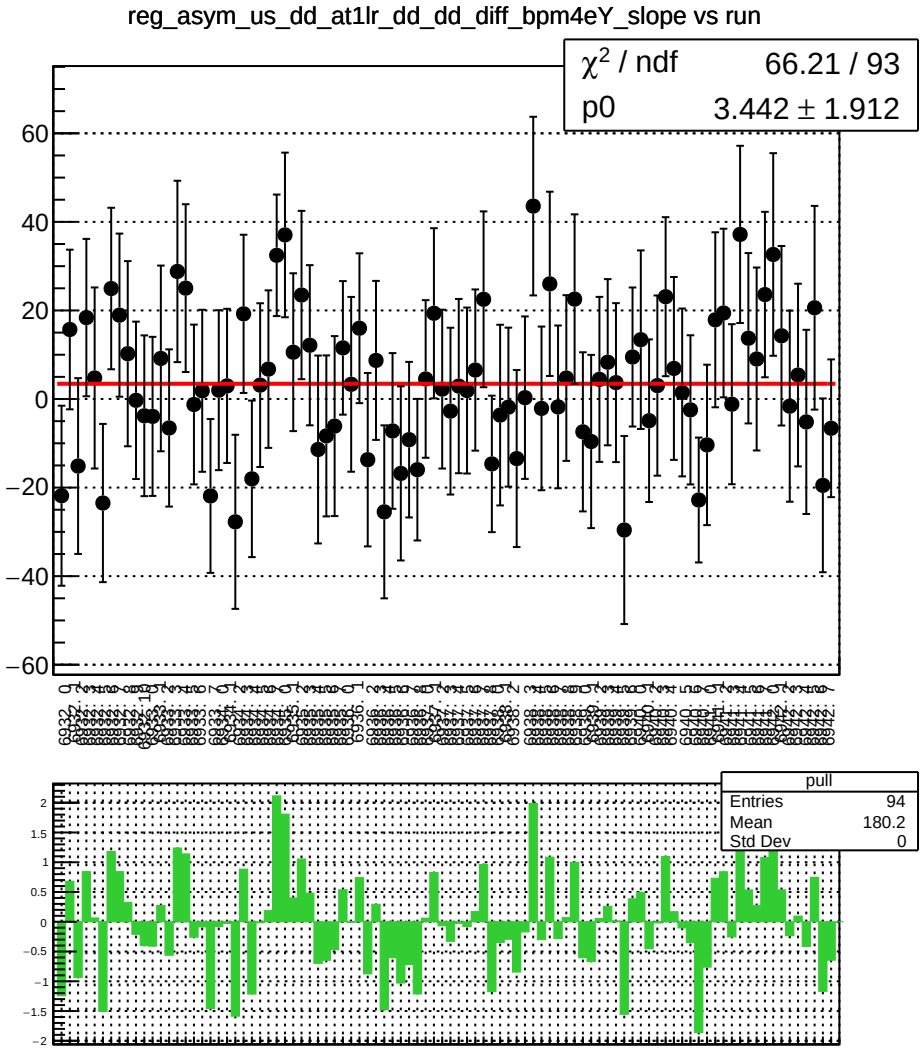

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 101.3 / 93
p0 −3.369 ± 0.08259
pull
Entries 94
Mean 1718
Std Dev 0
pull1D
Entries 94
Mean −0.001991
Std Dev 1.038

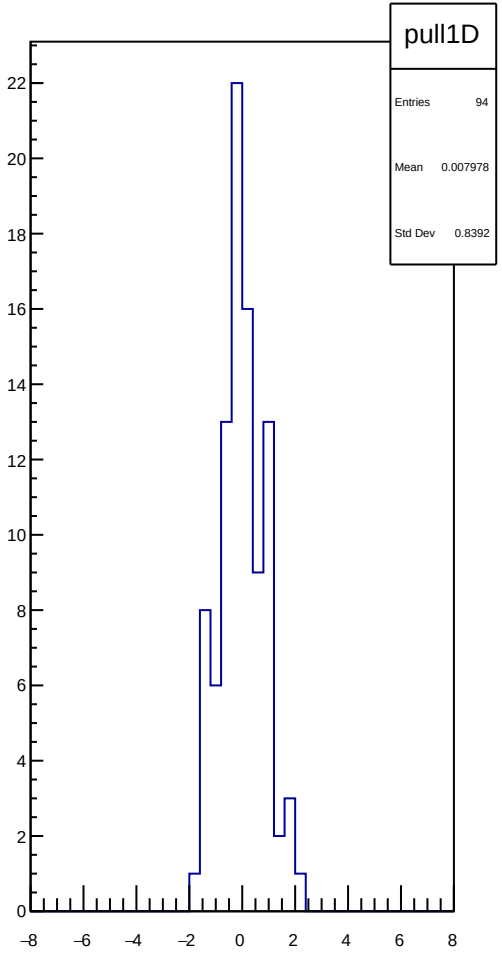

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 85.21 / 93
p0 −16.07 ± 2.457
pull
Entries 94
Mean −618.2
Std Dev 0

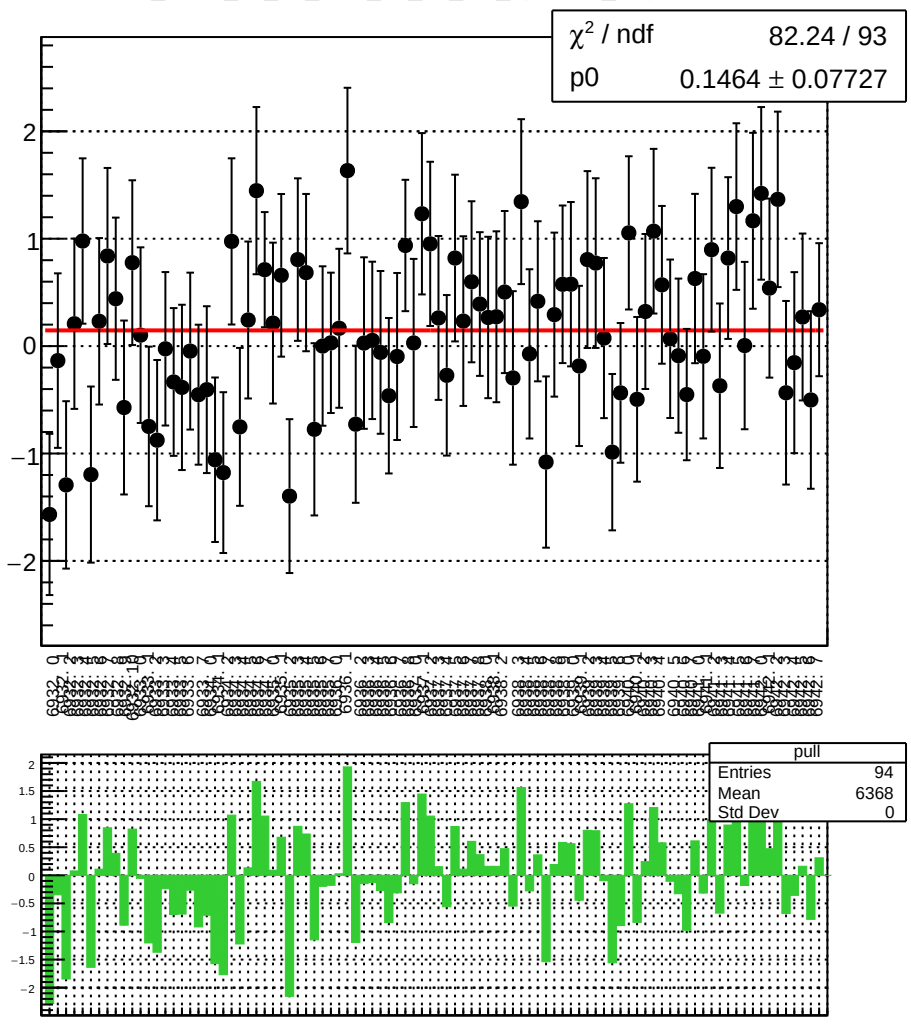

pull1D
Entries 94
Mean 0.006505
Std Dev 0.9521

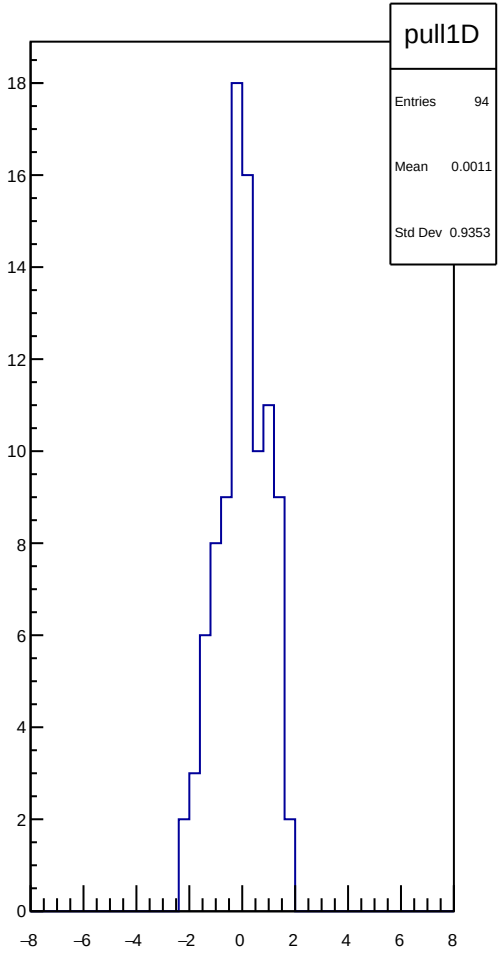

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.82 / 93
p0 −1.775 ± 1.658
pull
Entries 94
Mean 500
Std Dev 0
pull1D
Entries 94
Mean −0.004608
Std Dev 0.8109

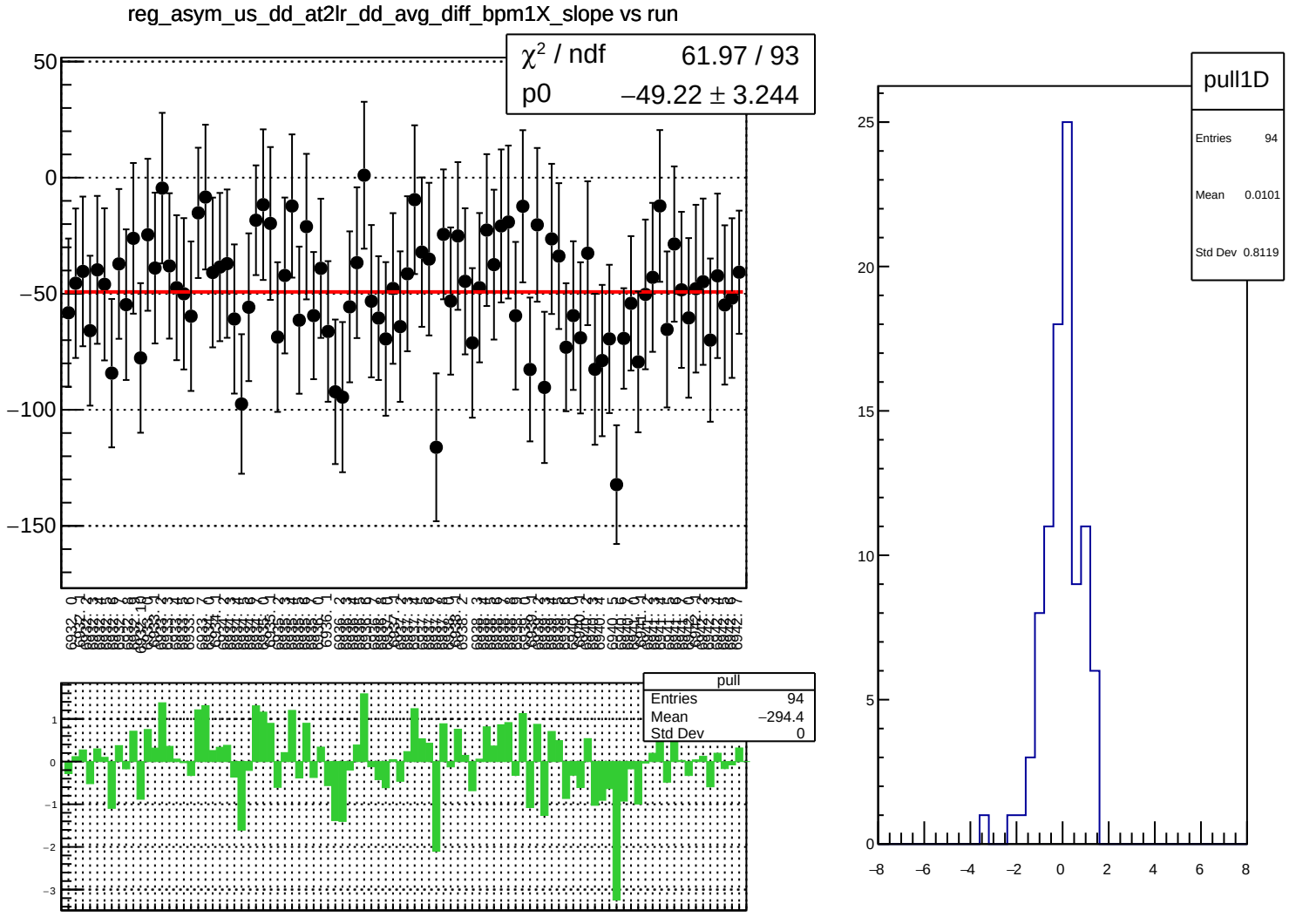

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.38 / 93
p0 −95.48 ± 2.278
pull
Entries 94
Mean −676.5
Std Dev 0
pull1D
Entries 94
Mean −0.006272
Std Dev 0.9696

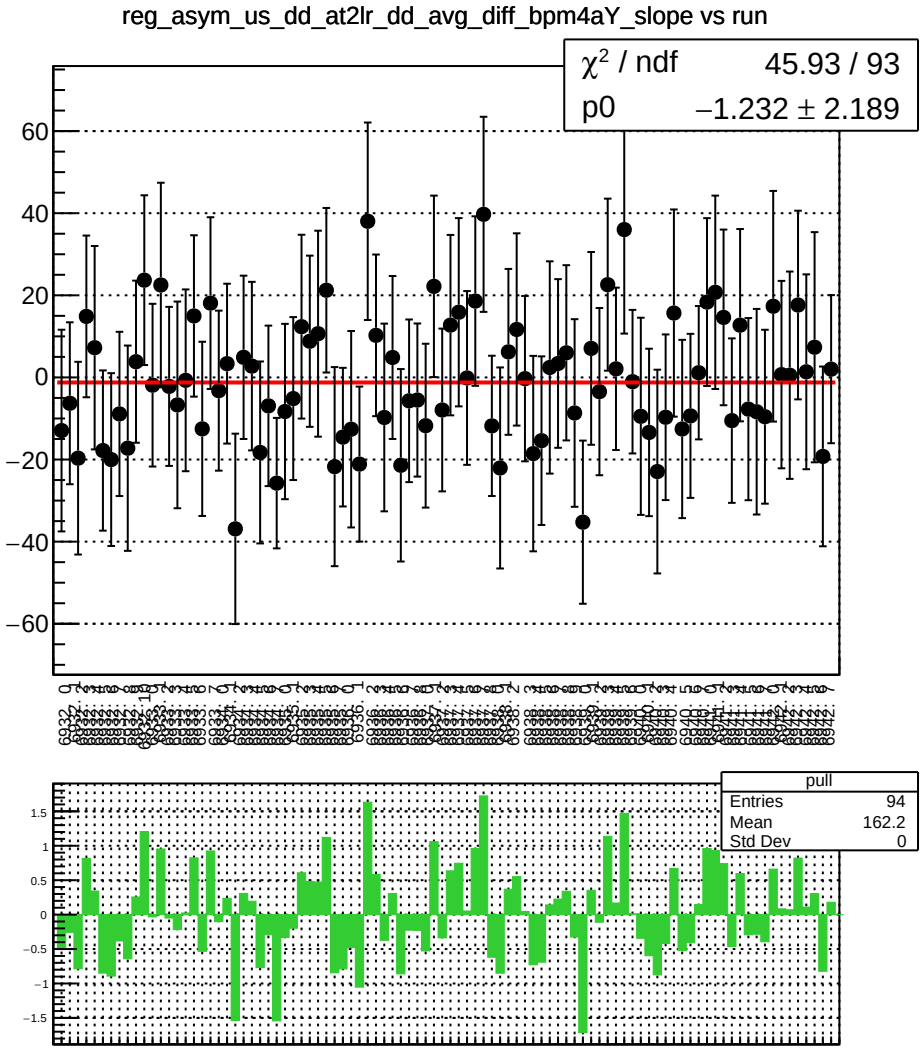

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.21 / 93
p0 3.442 ± 1.912
pull
Entries 94
Mean 180.2
Std Dev 0

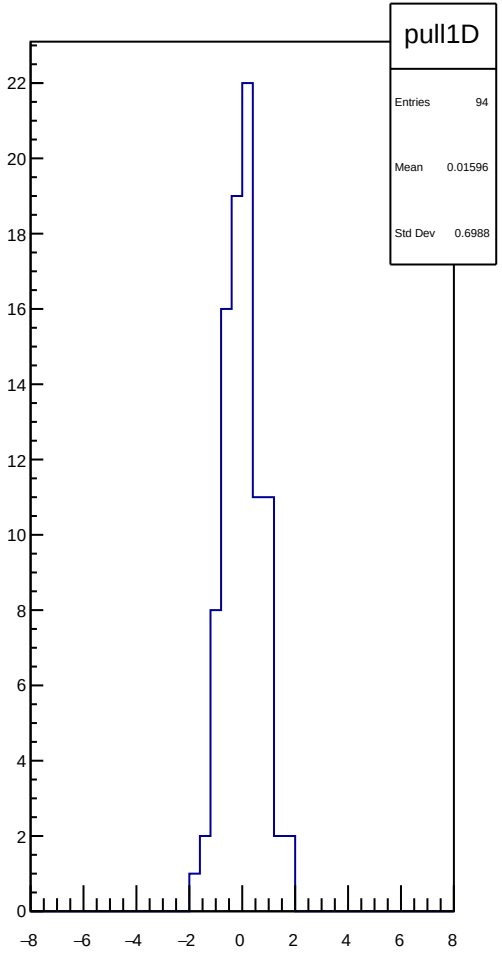

pull1D
Entries 94
Mean 0.007978
Std Dev 0.8392

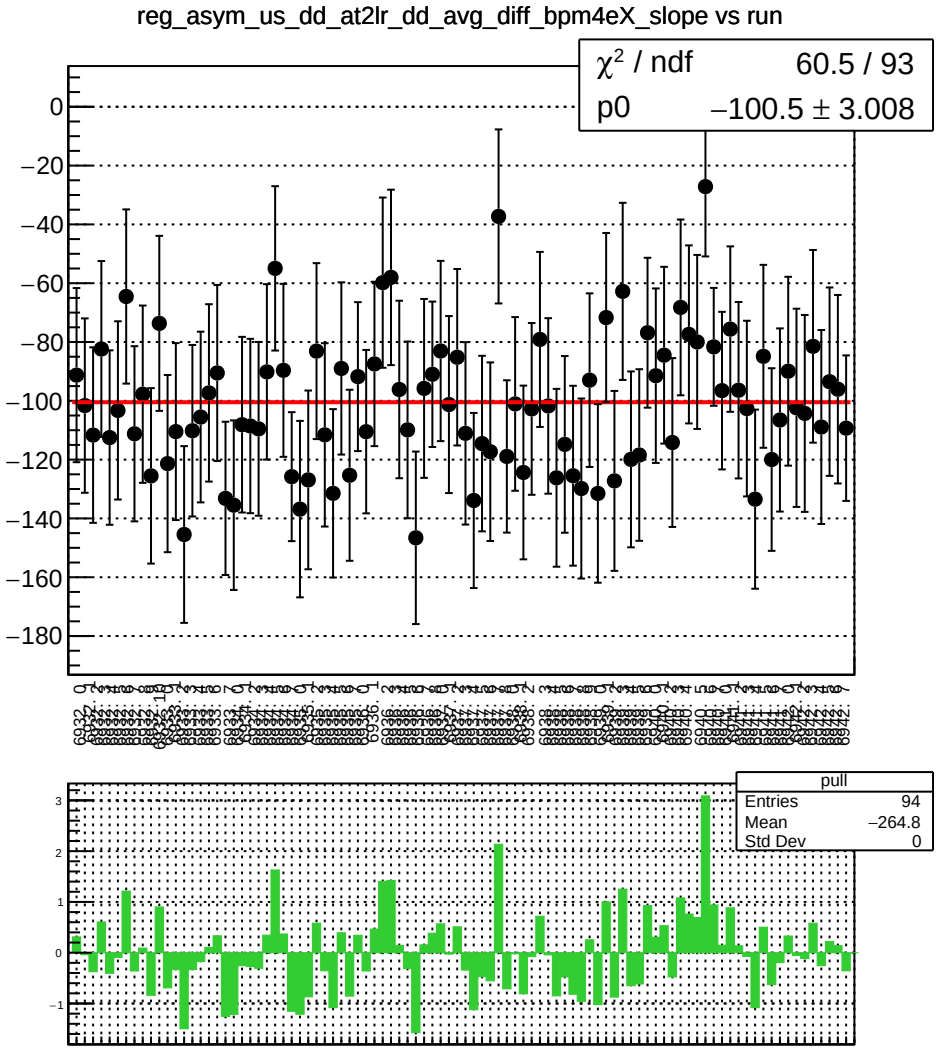

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 82.24 / 93
p0 0.1464 ± 0.07727
pull
Entries 94
Mean 6368
Std Dev 0

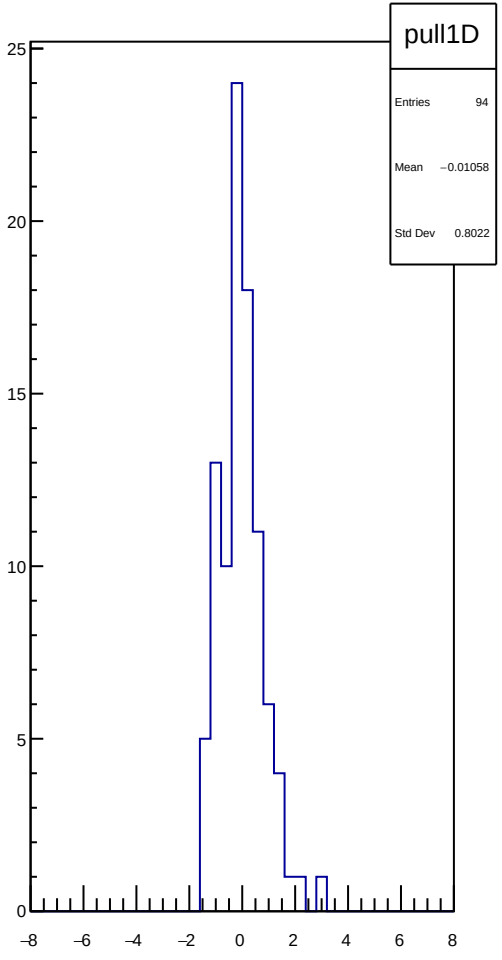

pull1D
Entries 94
Mean 0.0011
Std Dev 0.9353

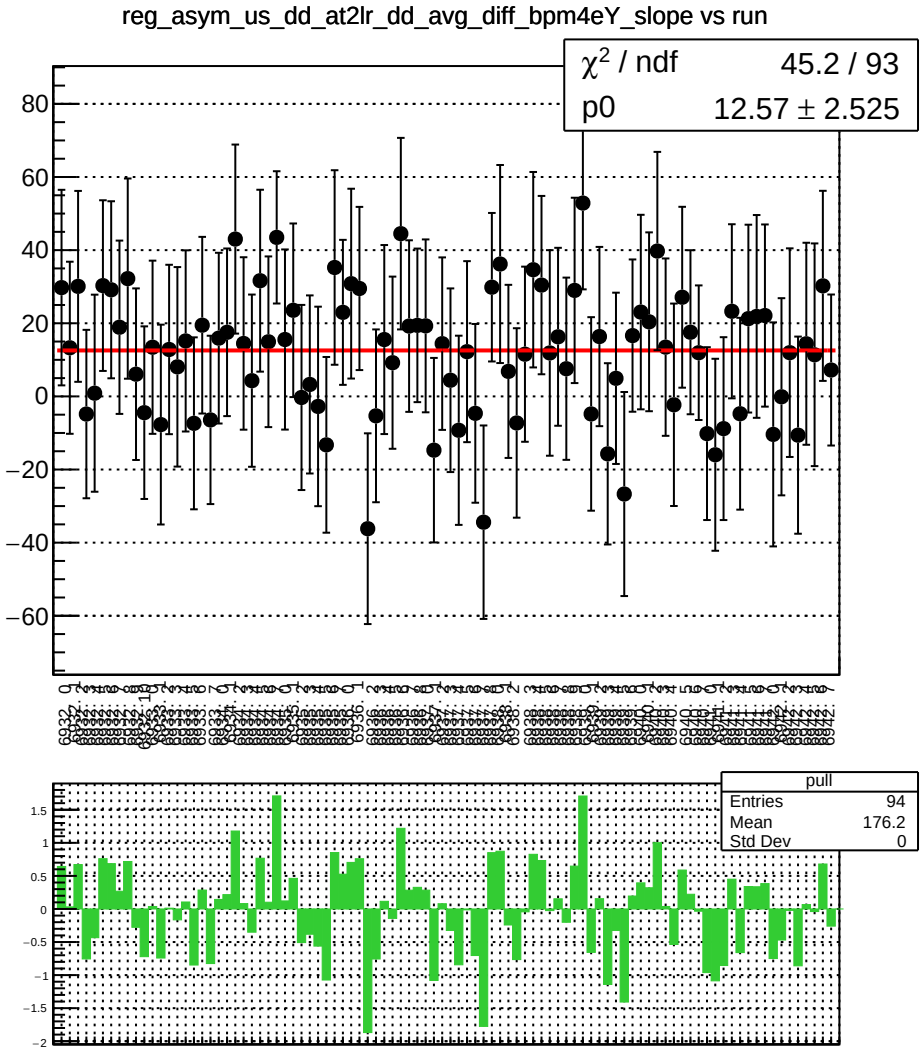

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 61.97 / 93
p0 −49.22 ± 3.244
pull
Entries 94
Mean −294.4
Std Dev 0
pull1D
Entries 94
Mean 0.0101
Std Dev 0.8119

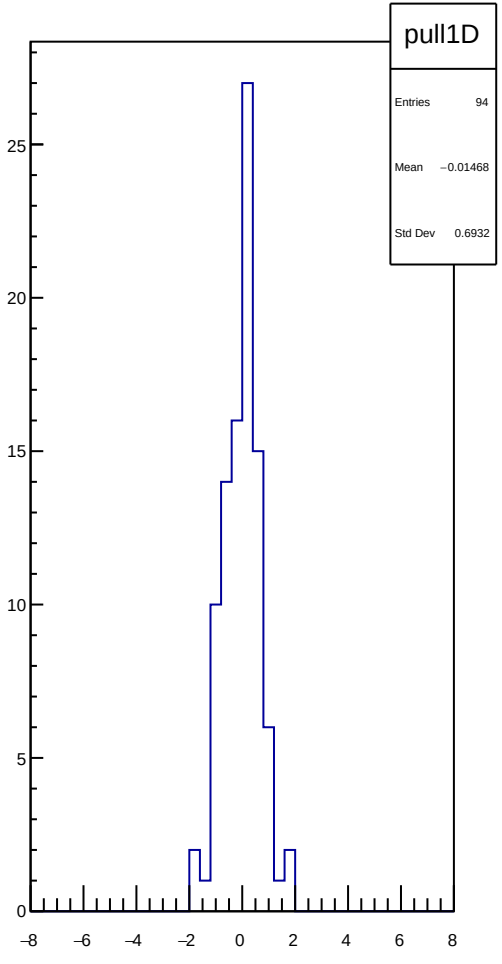

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.93 / 93
p0 −1.232 ± 2.189
pull
Entries 94
Mean 162.2
Std Dev 0

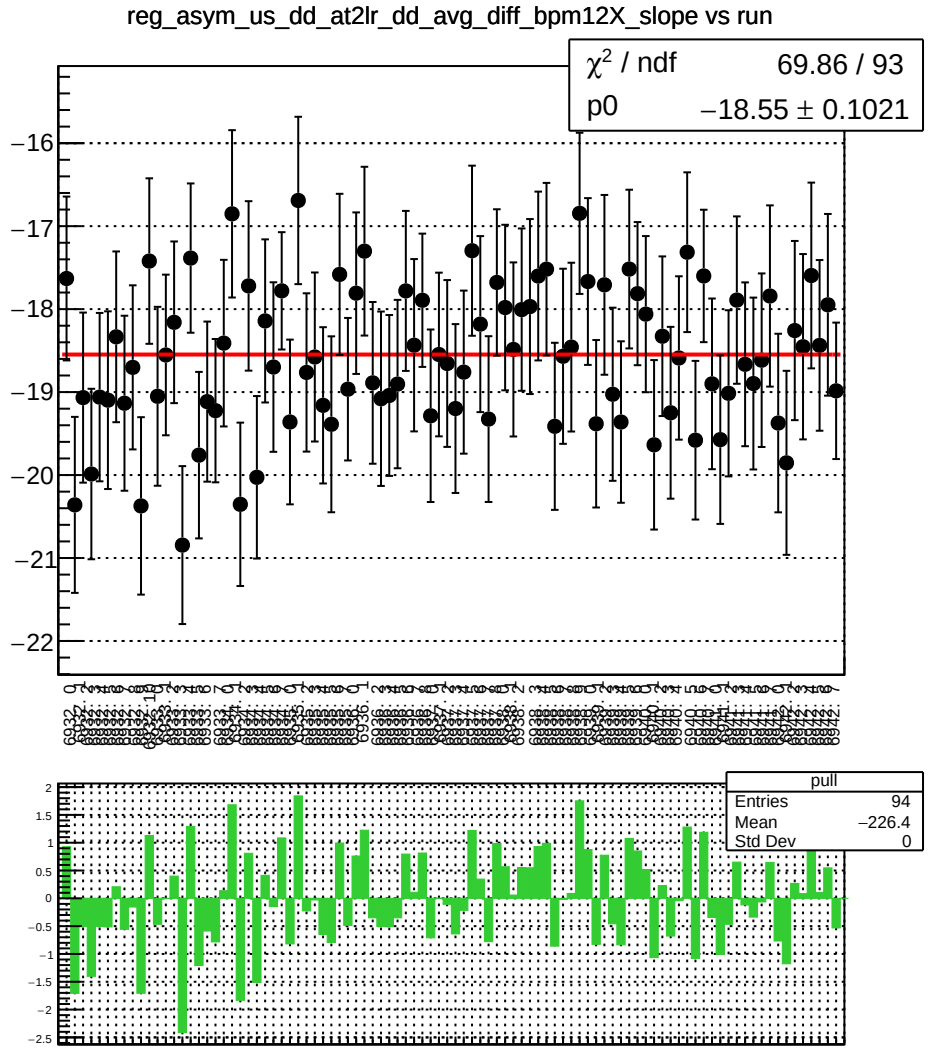

pull1D
Entries 94
Mean 0.01596
Std Dev 0.6988

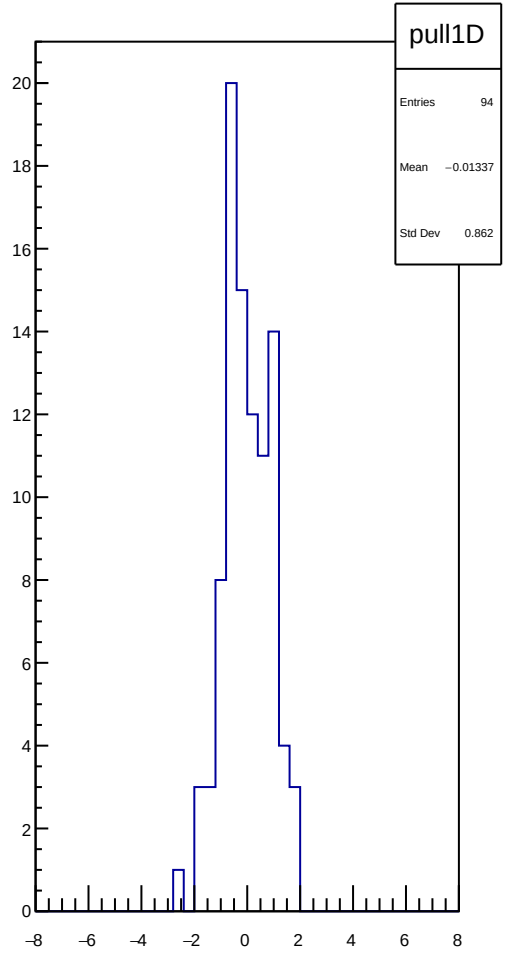

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 60.5 / 93
p0 −100.5 ± 3.008
pull
Entries 94
Mean −264.8
Std Dev 0

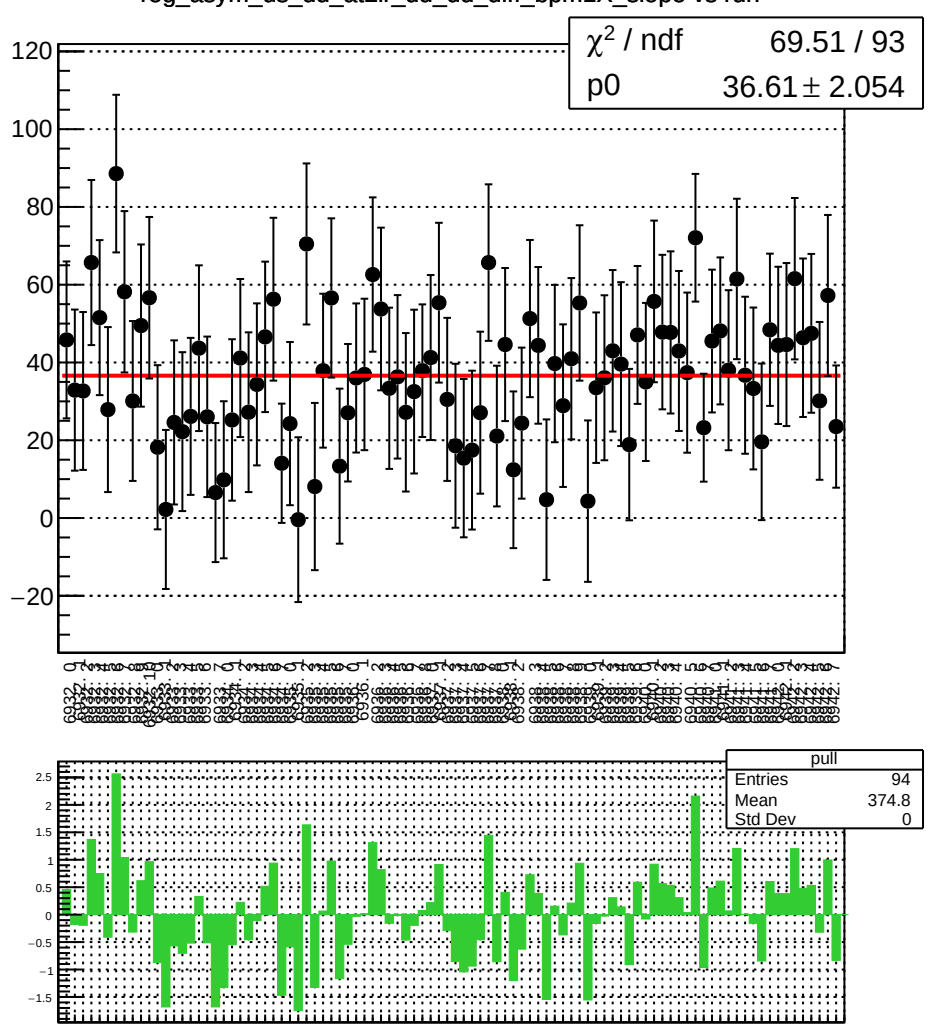

pull1D
Entries 94
Mean −0.01058
Std Dev 0.8022

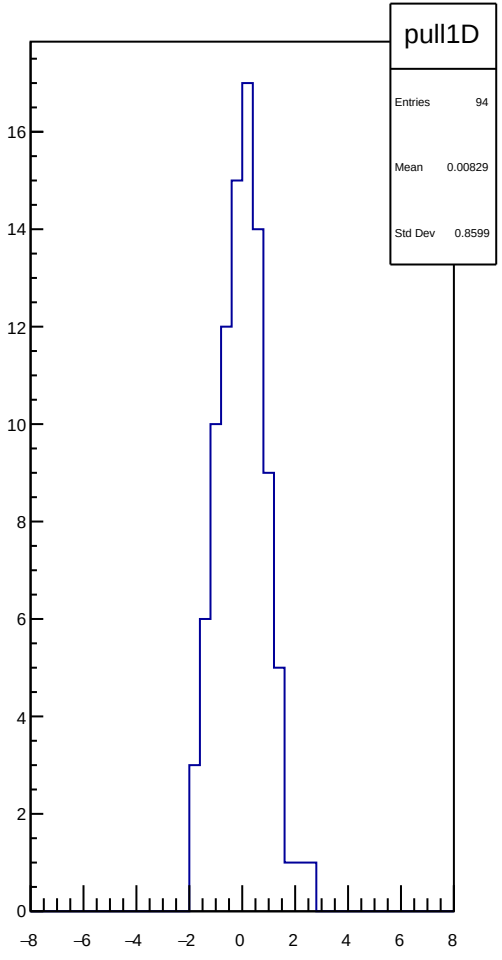

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.2 / 93
p0 12.57 ± 2.525
pull
Entries 94
Mean 176.2
Std Dev 0

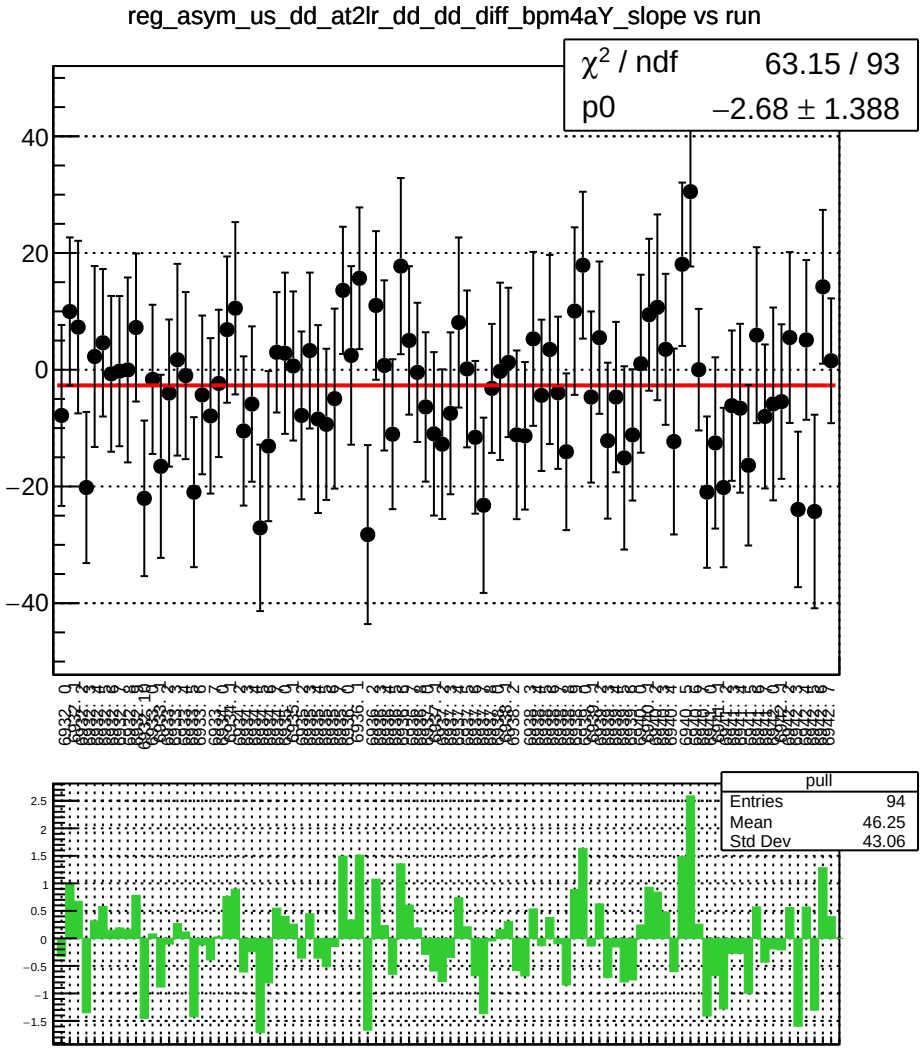

pull1D
Entries 94
Mean −0.01468
Std Dev 0.6932

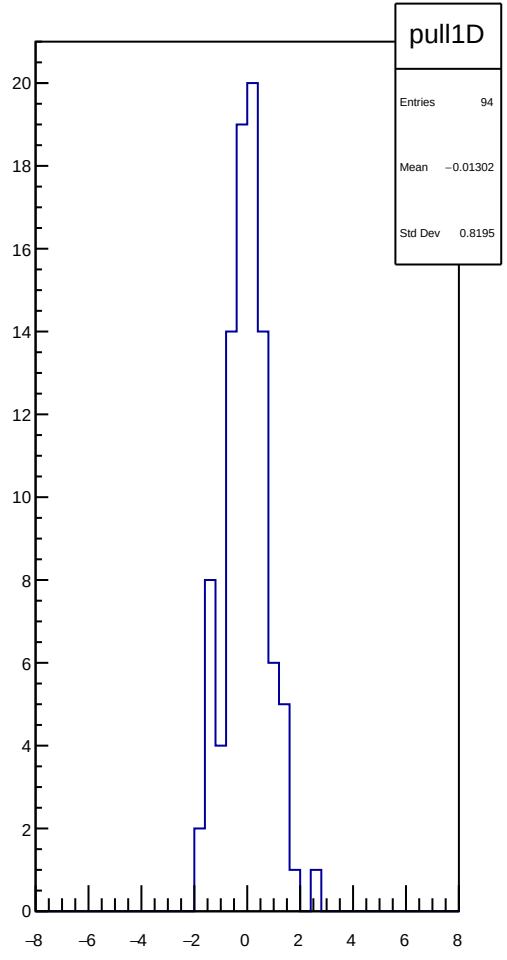

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 69.86 / 93
p0 −18.55 ± 0.1021
pull
Entries 94
Mean −226.4
Std Dev 0

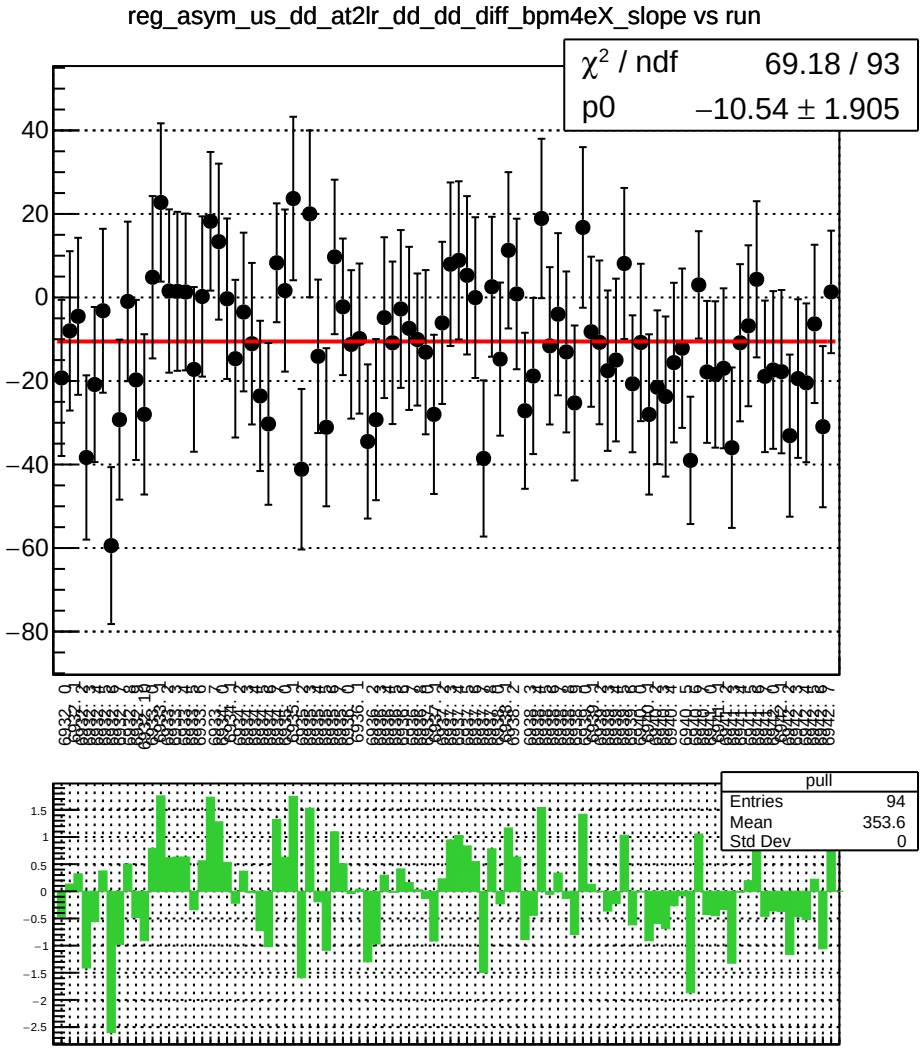

pull1D
Entries 94
Mean −0.01337
Std Dev 0.862

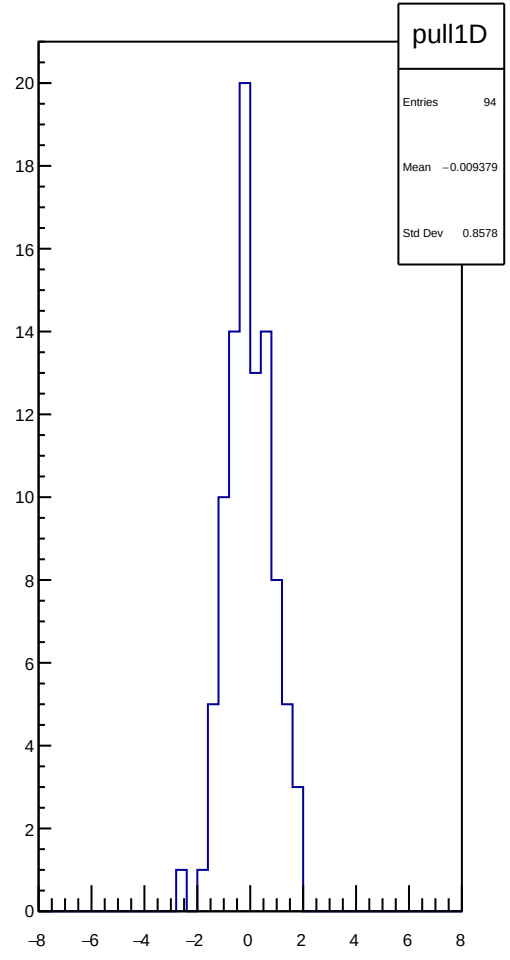

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 69.51 / 93
p0 36.61 ± 2.054
pull
Entries 94
Mean 374.8
Std Dev 0

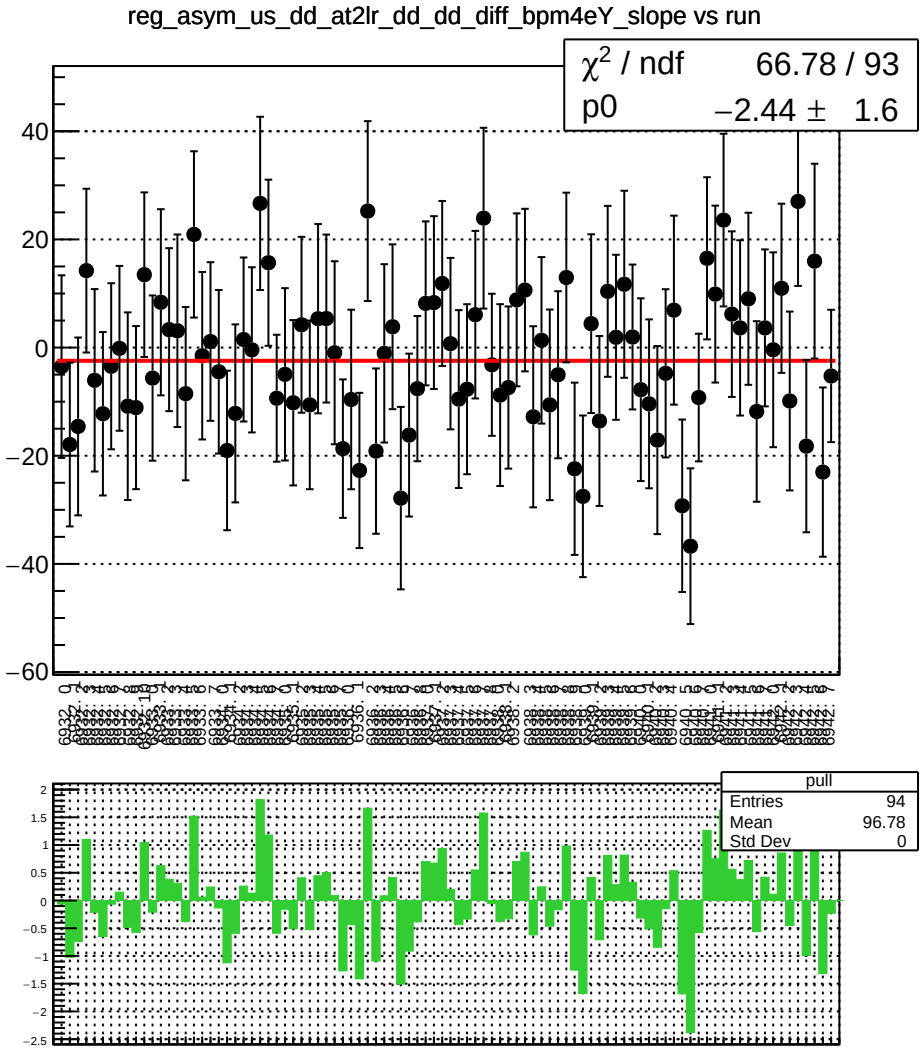

pull1D
Entries 94
Mean 0.00829
Std Dev 0.8599

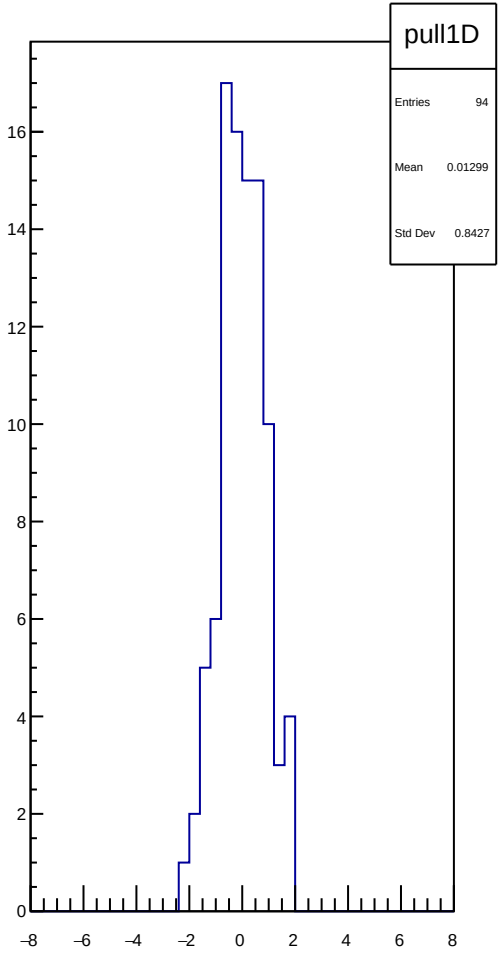

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.15 / 93
p0 −2.68 ± 1.388
40
20
0
−20
−40
pull
Entries 94
Mean 46.25
Std Dev 43.06
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

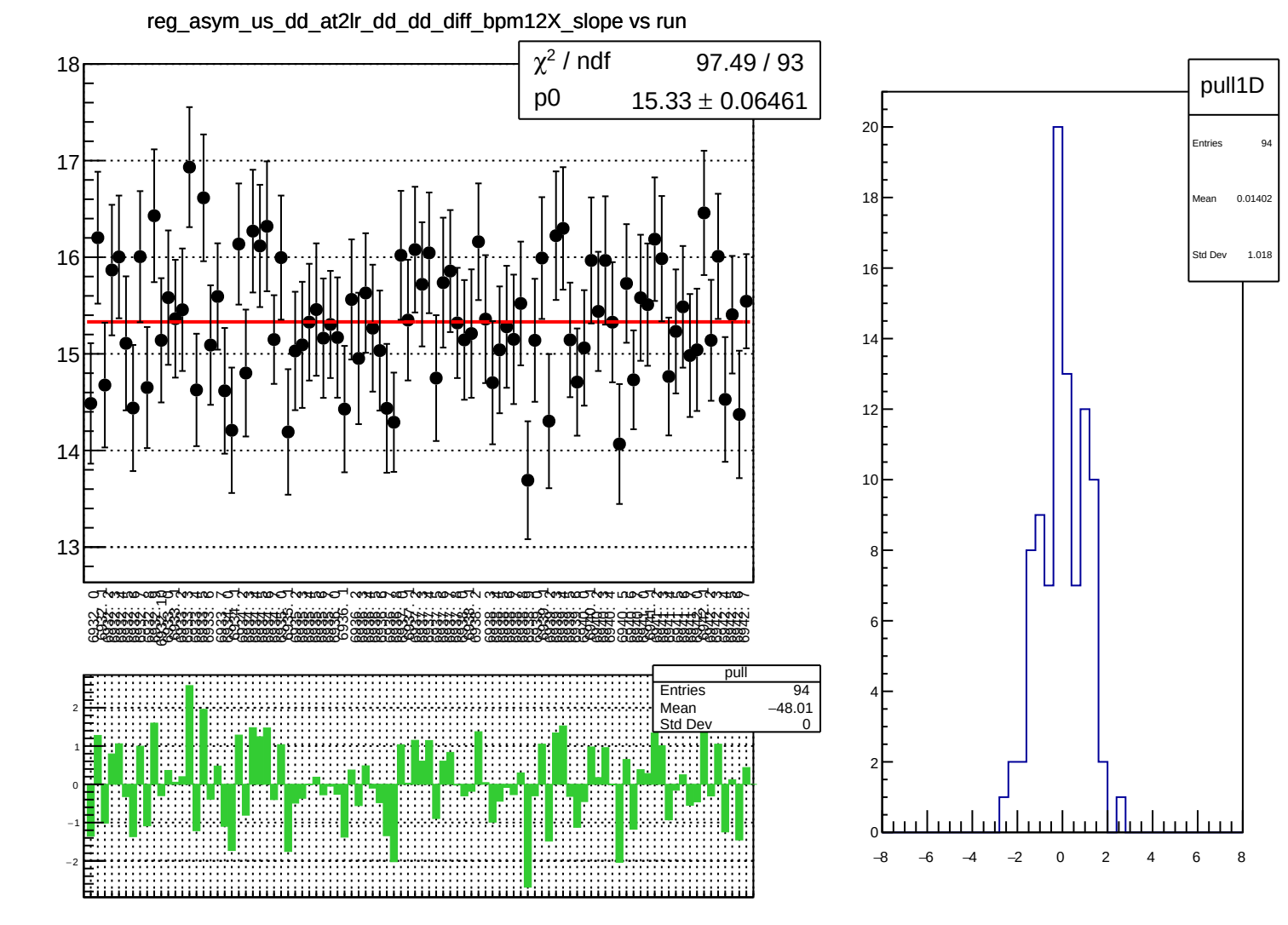

pull1D
Entries 94
Mean −0.01302
Std Dev 0.8195
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

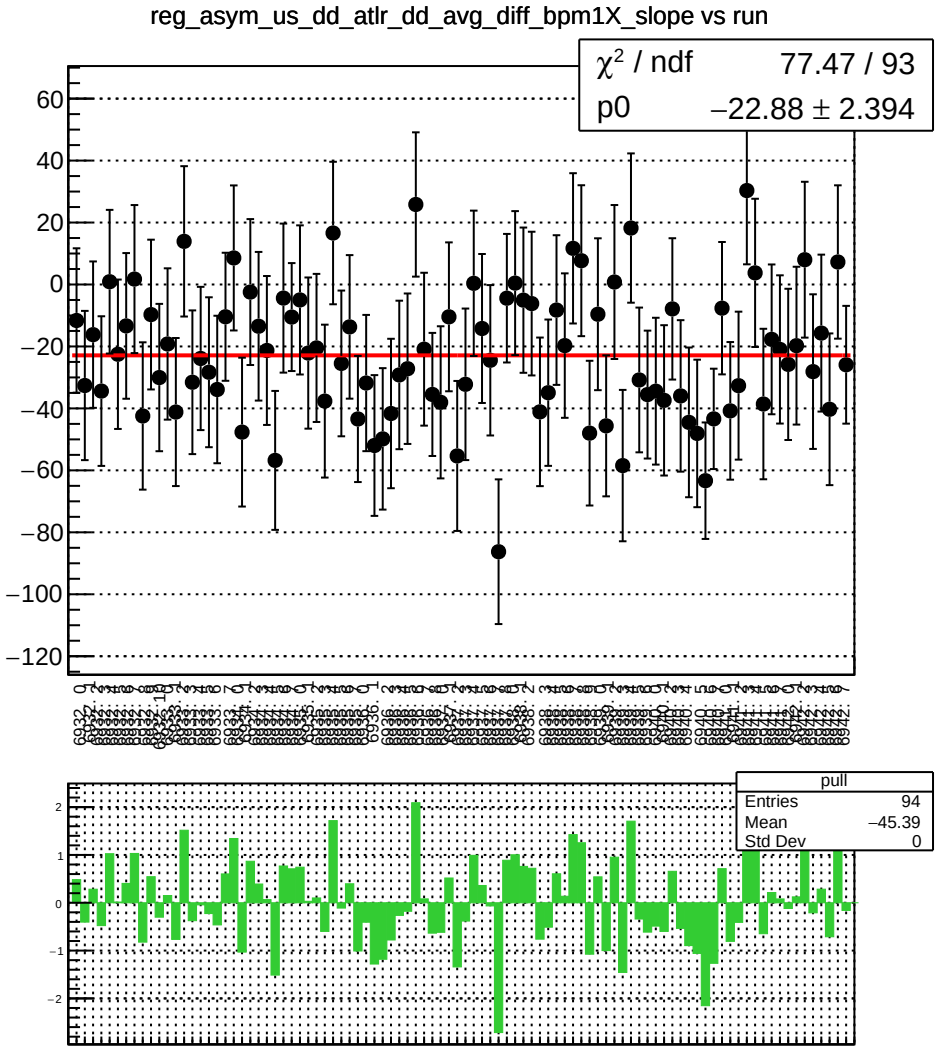

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.18 / 93
p0 −10.54 ± 1.905
pull
Entries 94
Mean 353.6
Std Dev 0

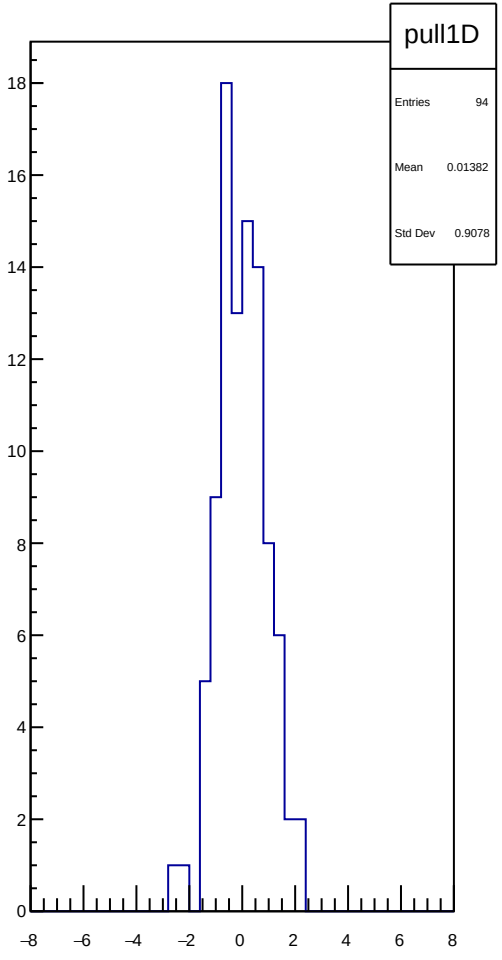

pull1D
Entries 94
Mean −0.009379
Std Dev 0.8578

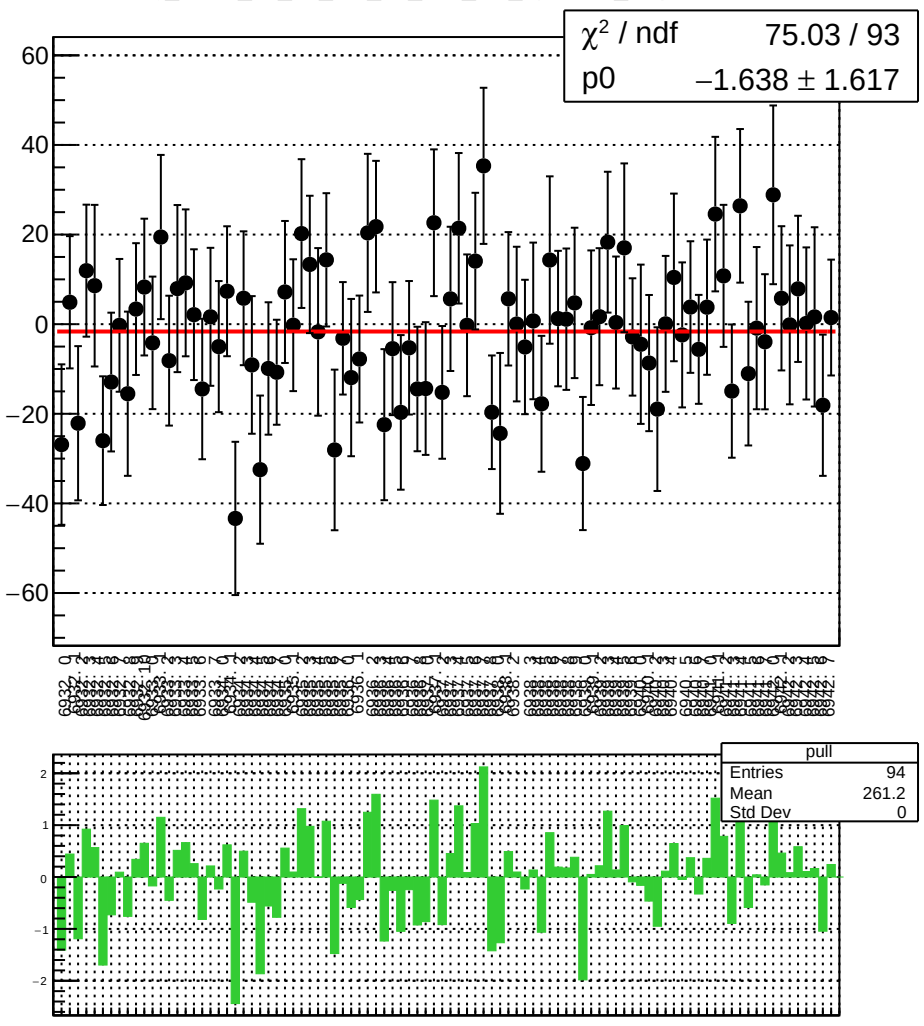

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.78 / 93
p0 −2.44 ± 1.6
pull
Entries 94
Mean 96.78
Std Dev 0

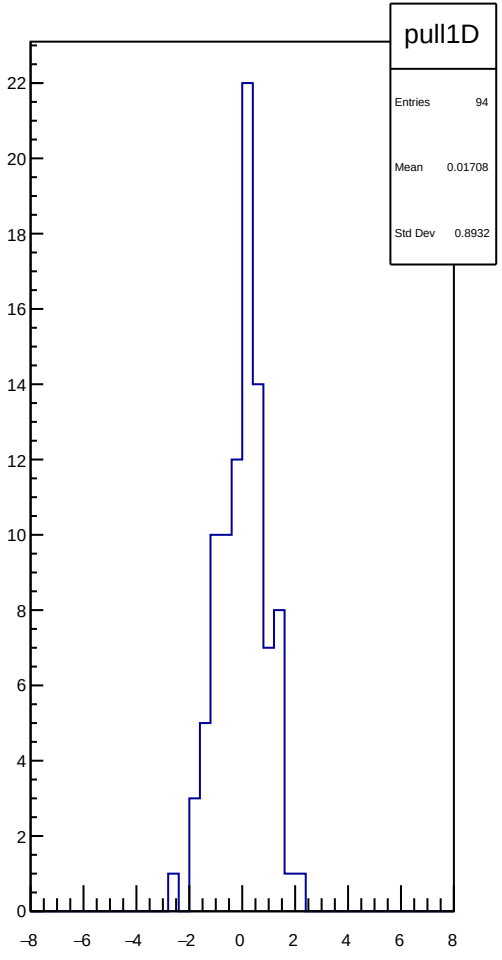

pull1D
Entries 94
Mean 0.01299
Std Dev 0.8427

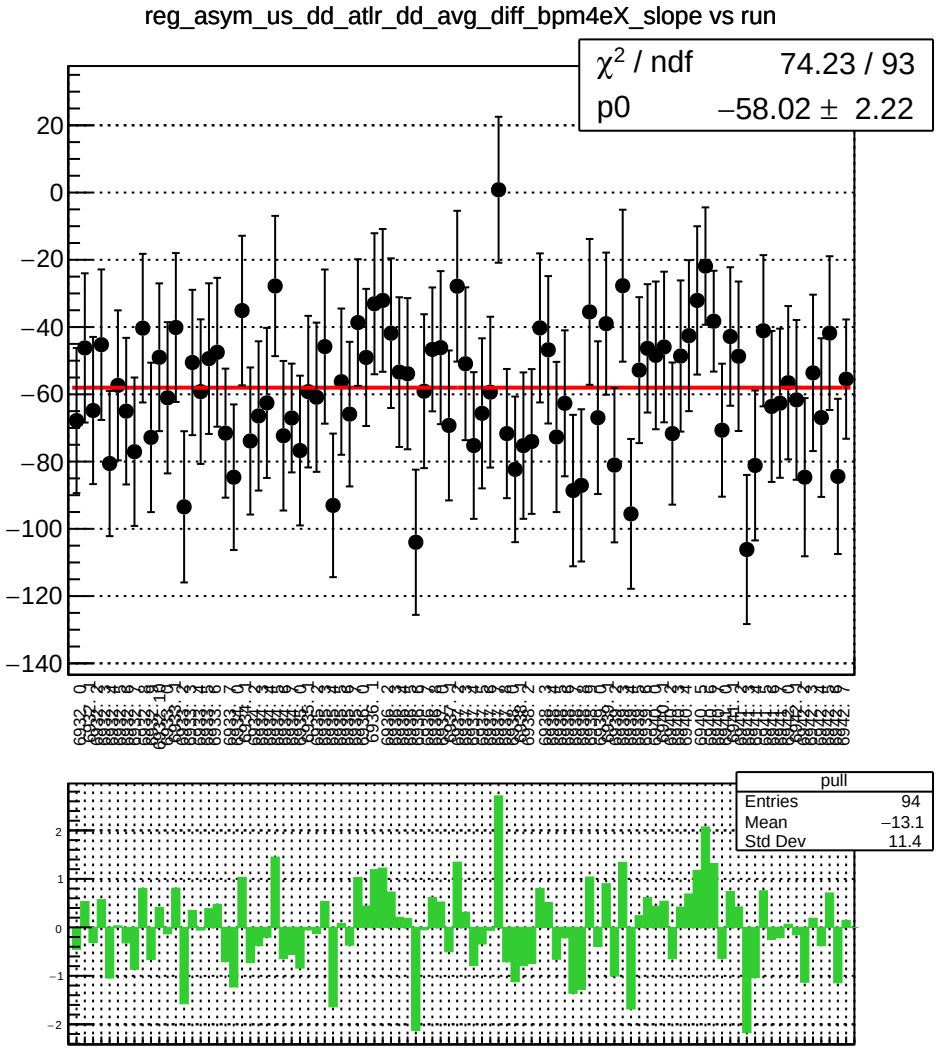

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 97.49 / 93
p0 15.33 ± 0.06461
pull
Entries 94
Mean −48.01
Std Dev 0
pull1D
Entries 94
Mean 0.01402
Std Dev 1.018

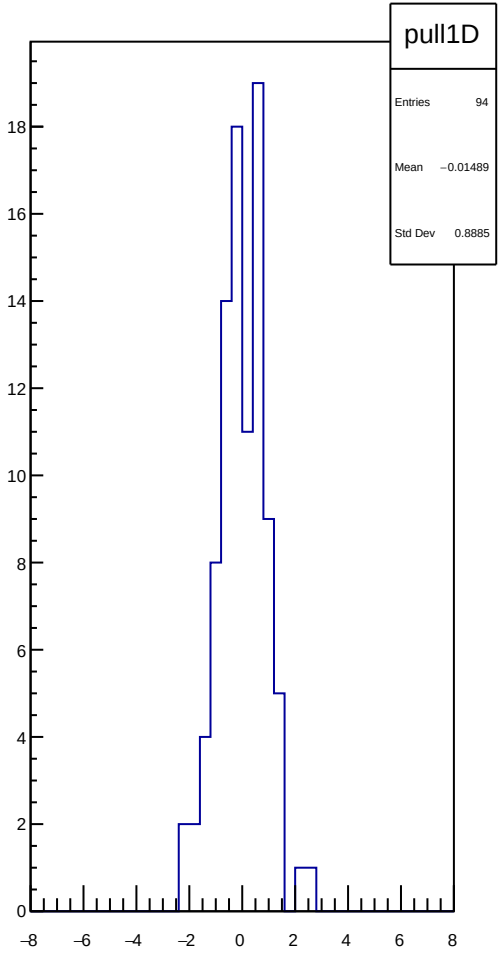

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 77.47 / 93
p0 −22.88 ± 2.394
pull
Entries 94
Mean −45.39
Std Dev 0

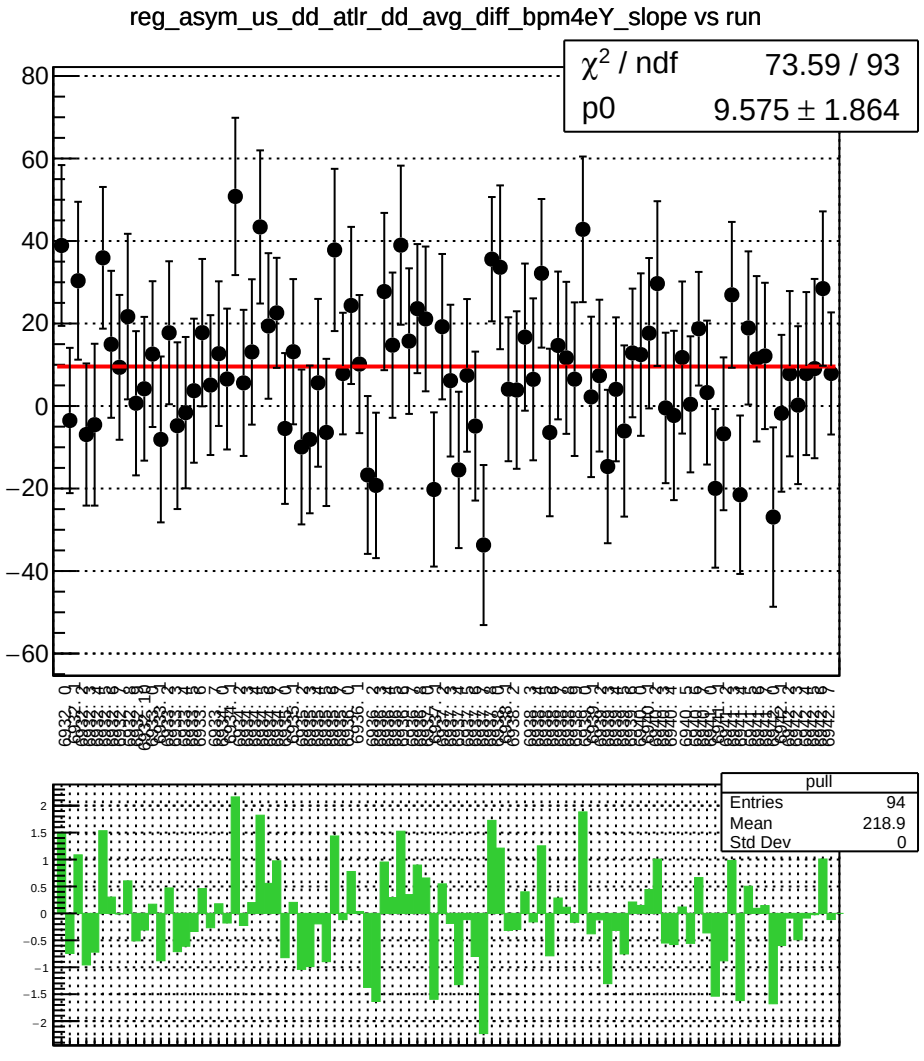

pull1D
Entries 94
Mean 0.01382
Std Dev 0.9078

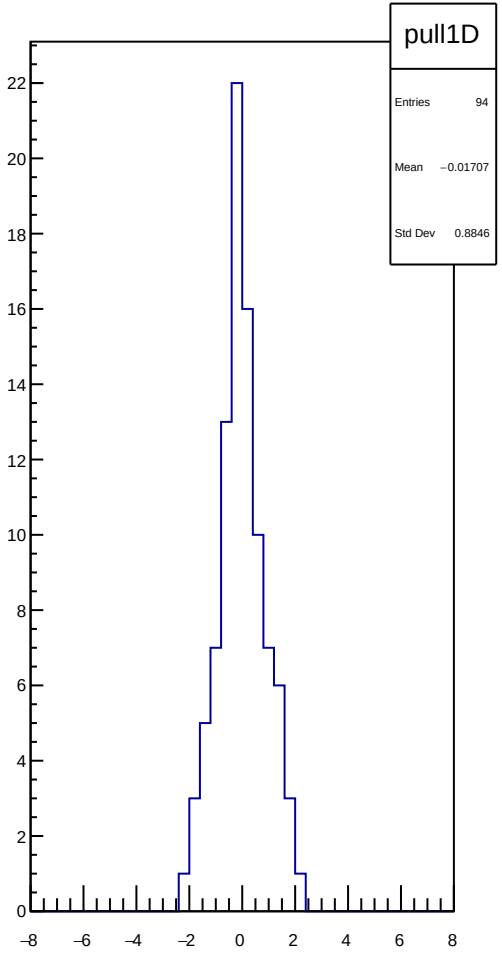

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.03 / 93
p0 −1.638 ± 1.617
pull
Entries 94
Mean 261.2
Std Dev 0

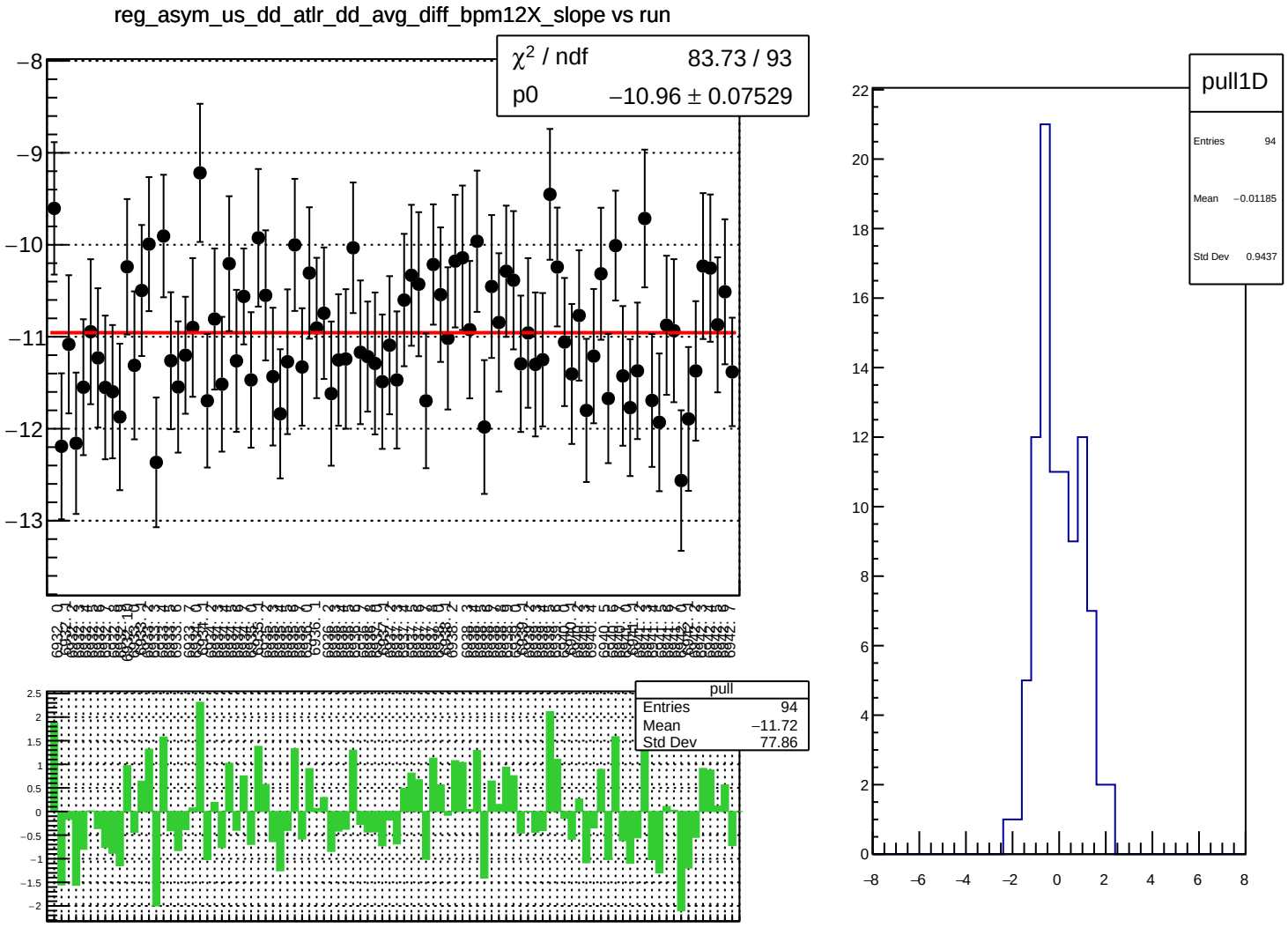

pull1D
Entries 94
Mean 0.01708
Std Dev 0.8932

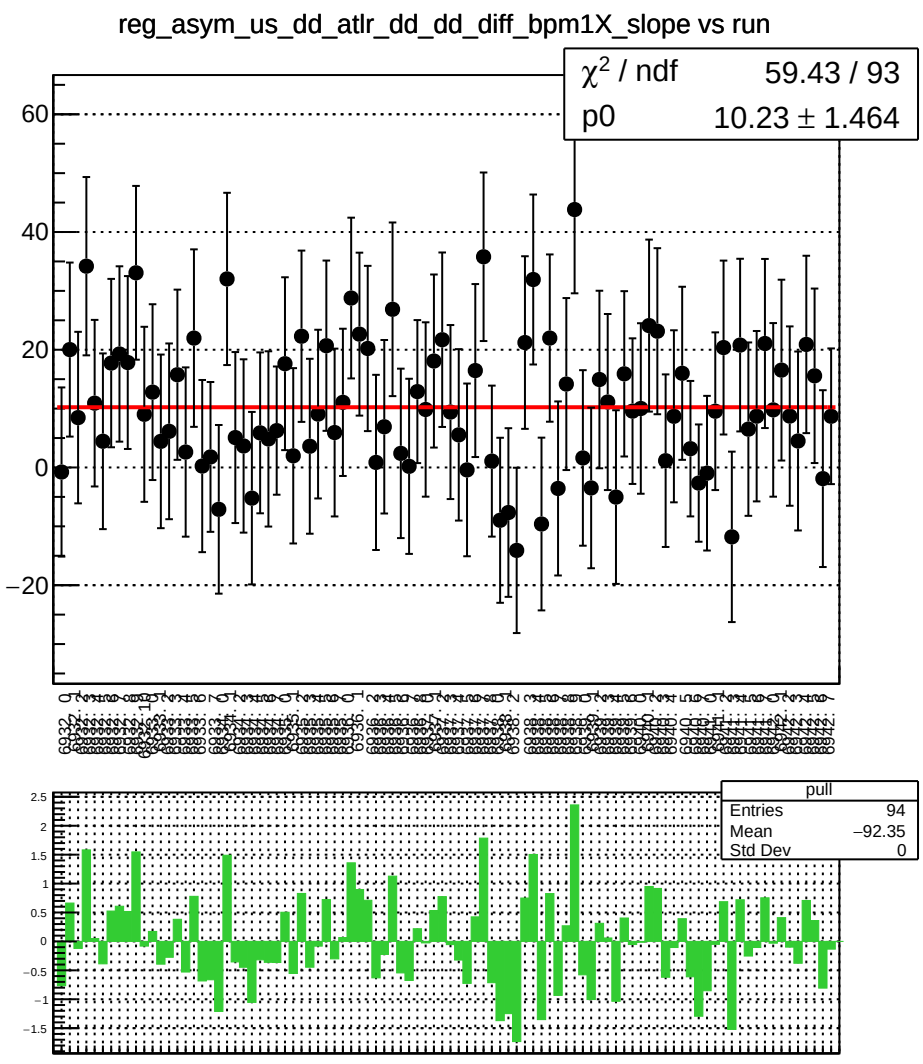

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.23 / 93
p0 −58.02 ± 2.22
pull
Entries 94
Mean −13.1
Std Dev 11.4

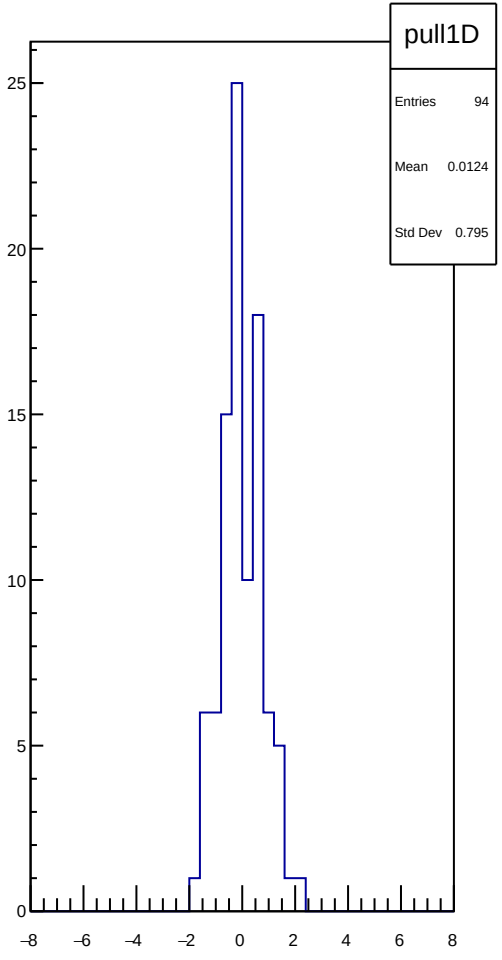

pull1D
Entries 94
Mean −0.01489
Std Dev 0.8885

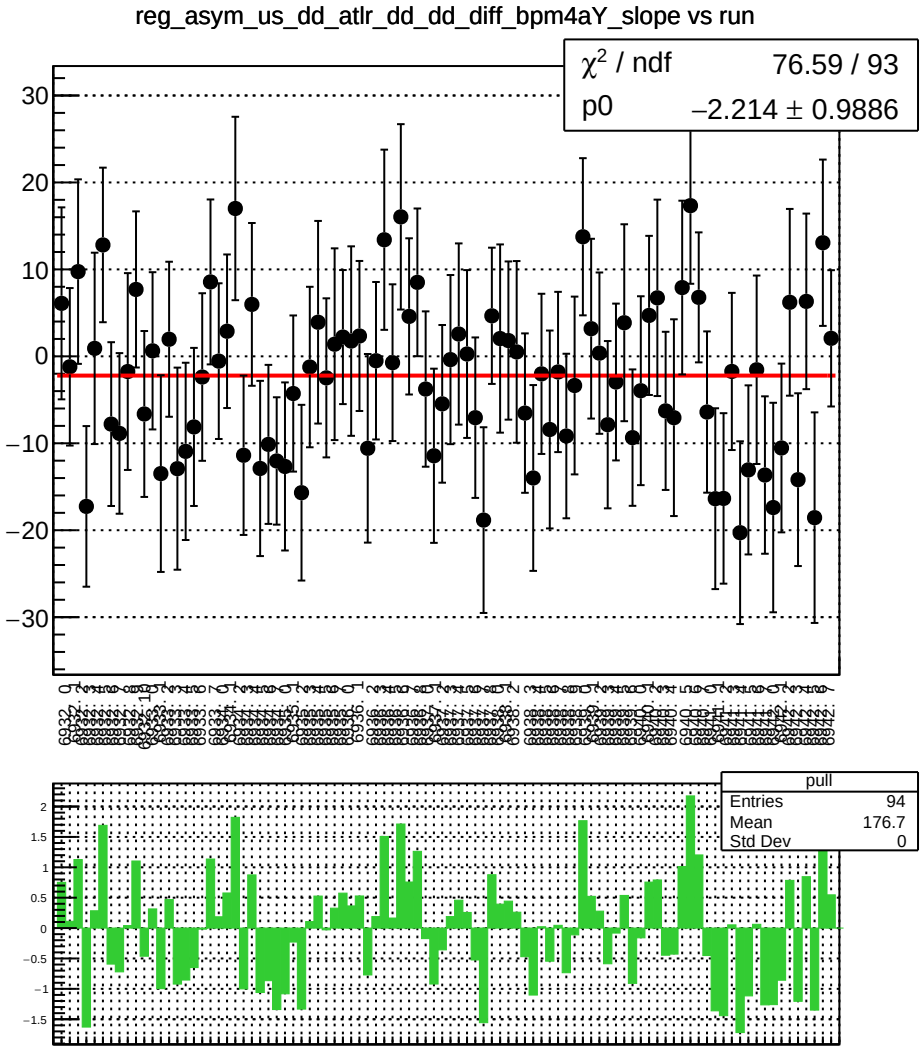

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.59 / 93
p0 9.575 ± 1.864
pull
Entries 94
Mean 218.9
Std Dev 0

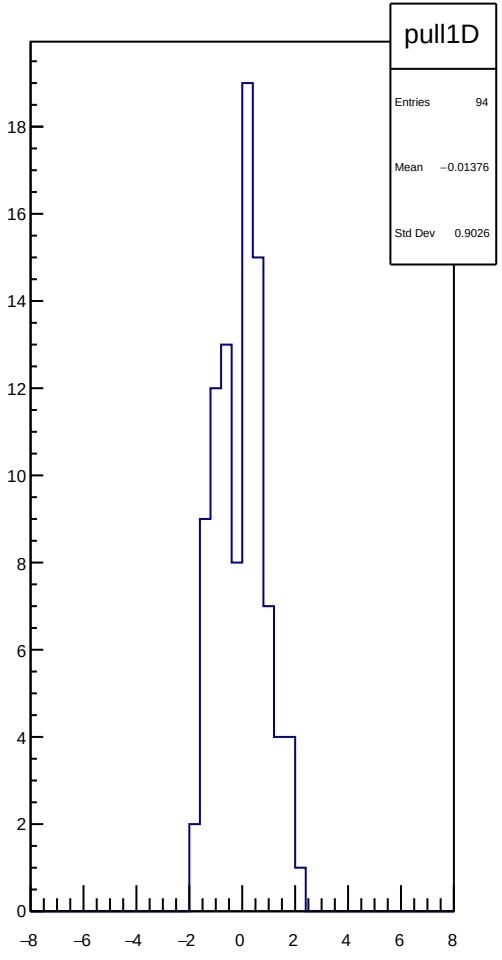

pull1D
Entries 94
Mean −0.01707
Std Dev 0.8846

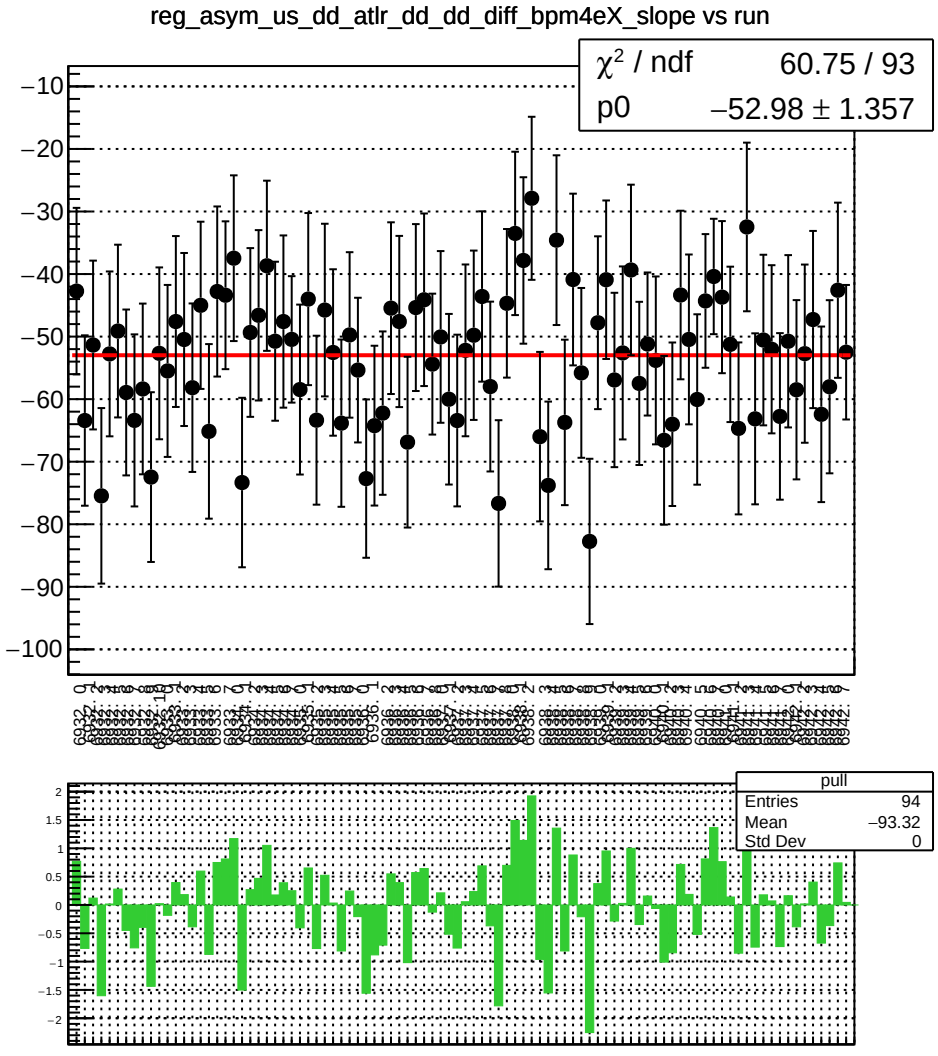

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.73 / 93
p0 −10.96 ± 0.07529
pull
Entries 94
Mean −11.72
Std Dev 77.86
pull1D
Entries 94
Mean −0.01185
Std Dev 0.9437

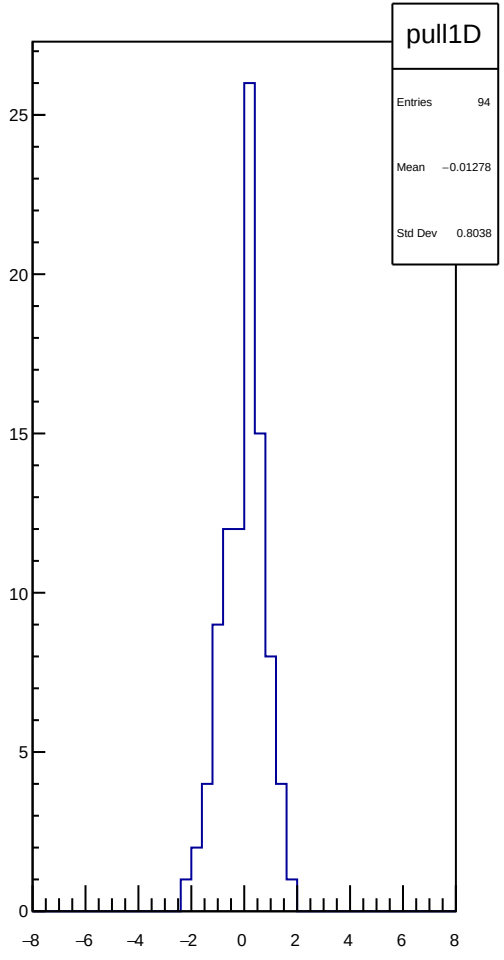

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 59.43 / 93
p0 10.23 ± 1.464
pull
Entries 94
Mean −92.35
Std Dev 0

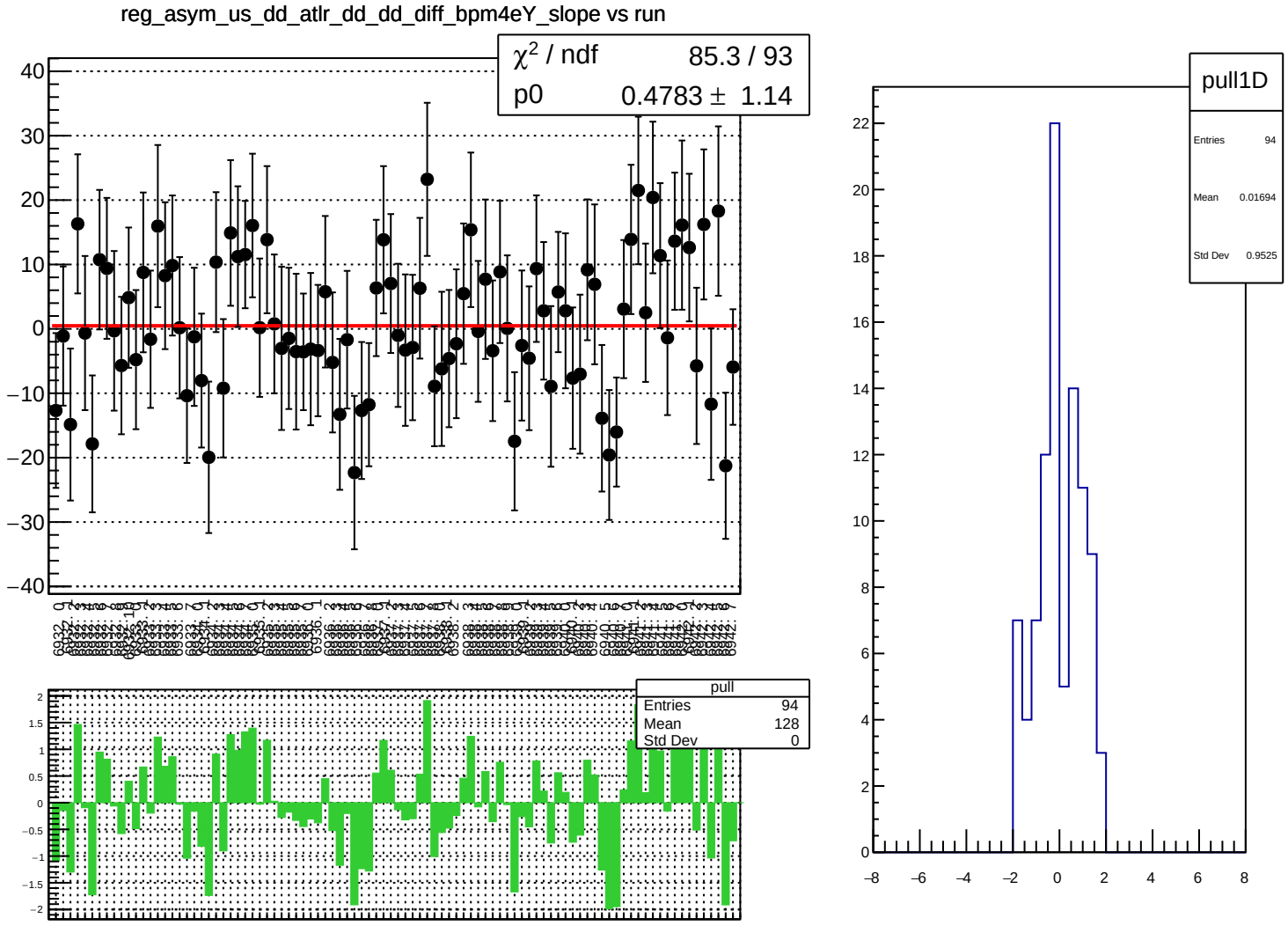

pull1D
Entries 94
Mean 0.0124
Std Dev 0.795

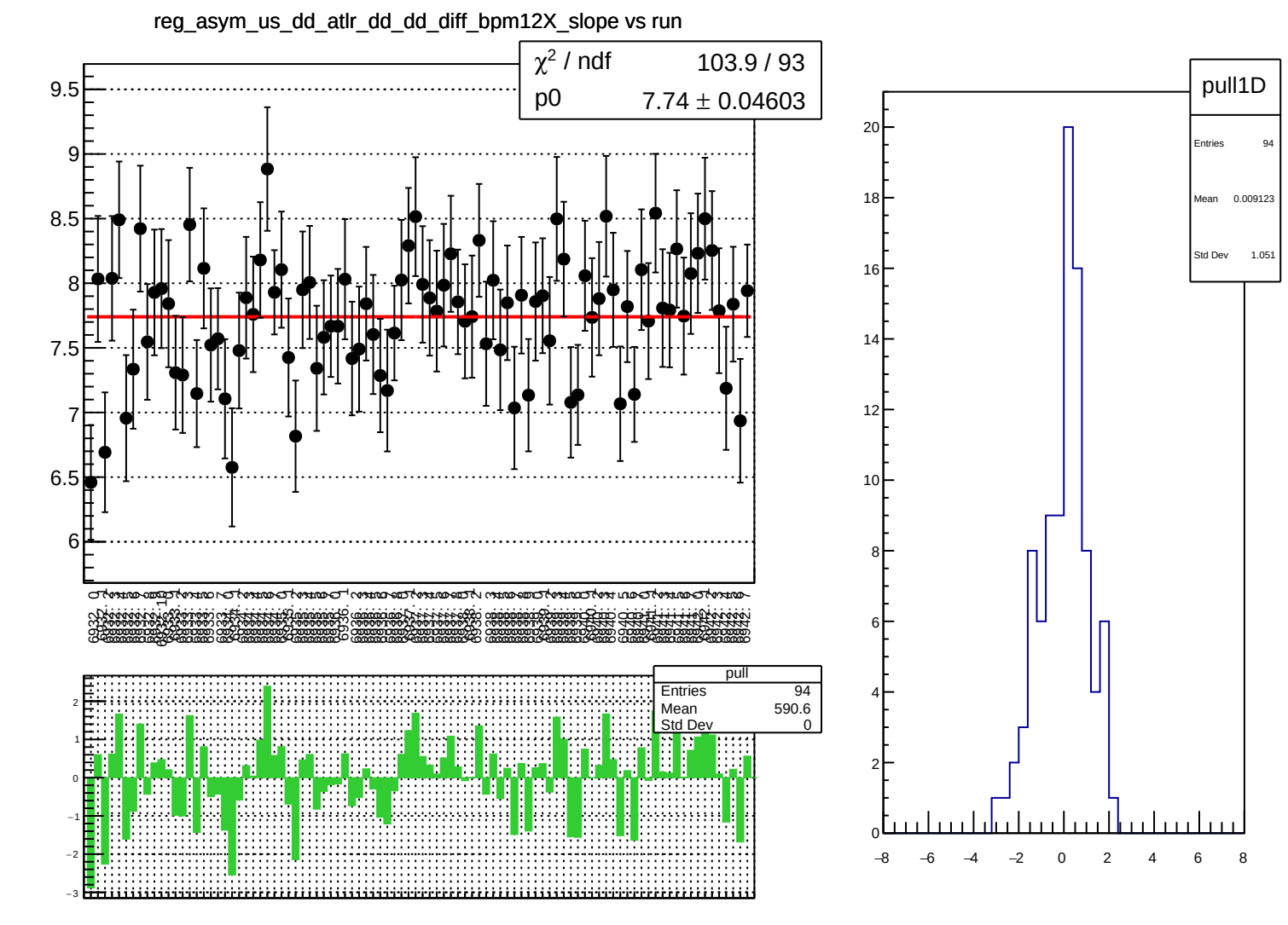

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.59 / 93
p0 −2.214 ± 0.9886
pull
Entries 94
Mean 176.7
Std Dev 0

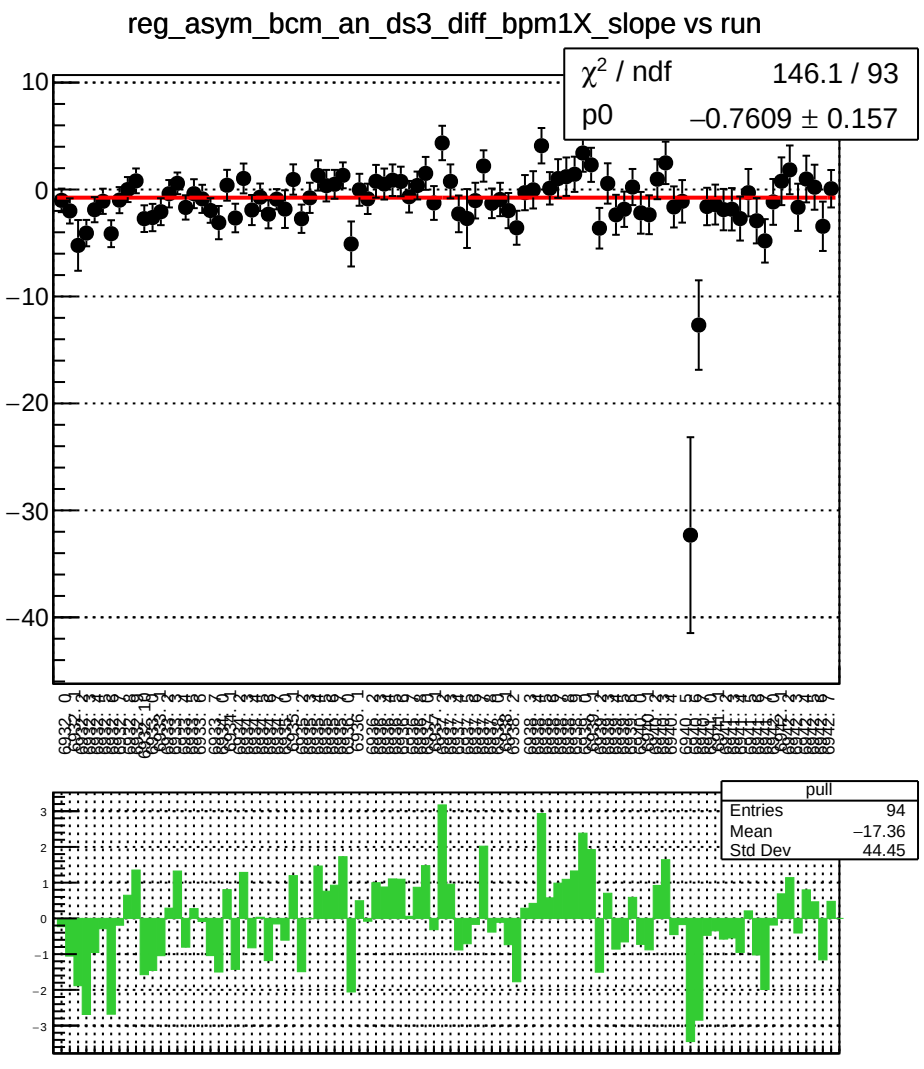

pull1D
Entries 94
Mean −0.01376
Std Dev 0.9026

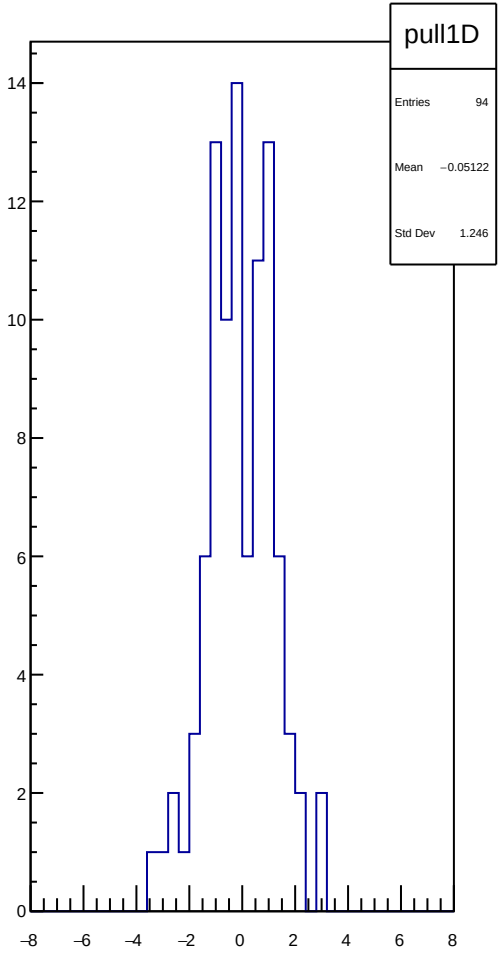

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.75 / 93
p0 −52.98 ± 1.357
pull
Entries 94
Mean −93.32
Std Dev 0

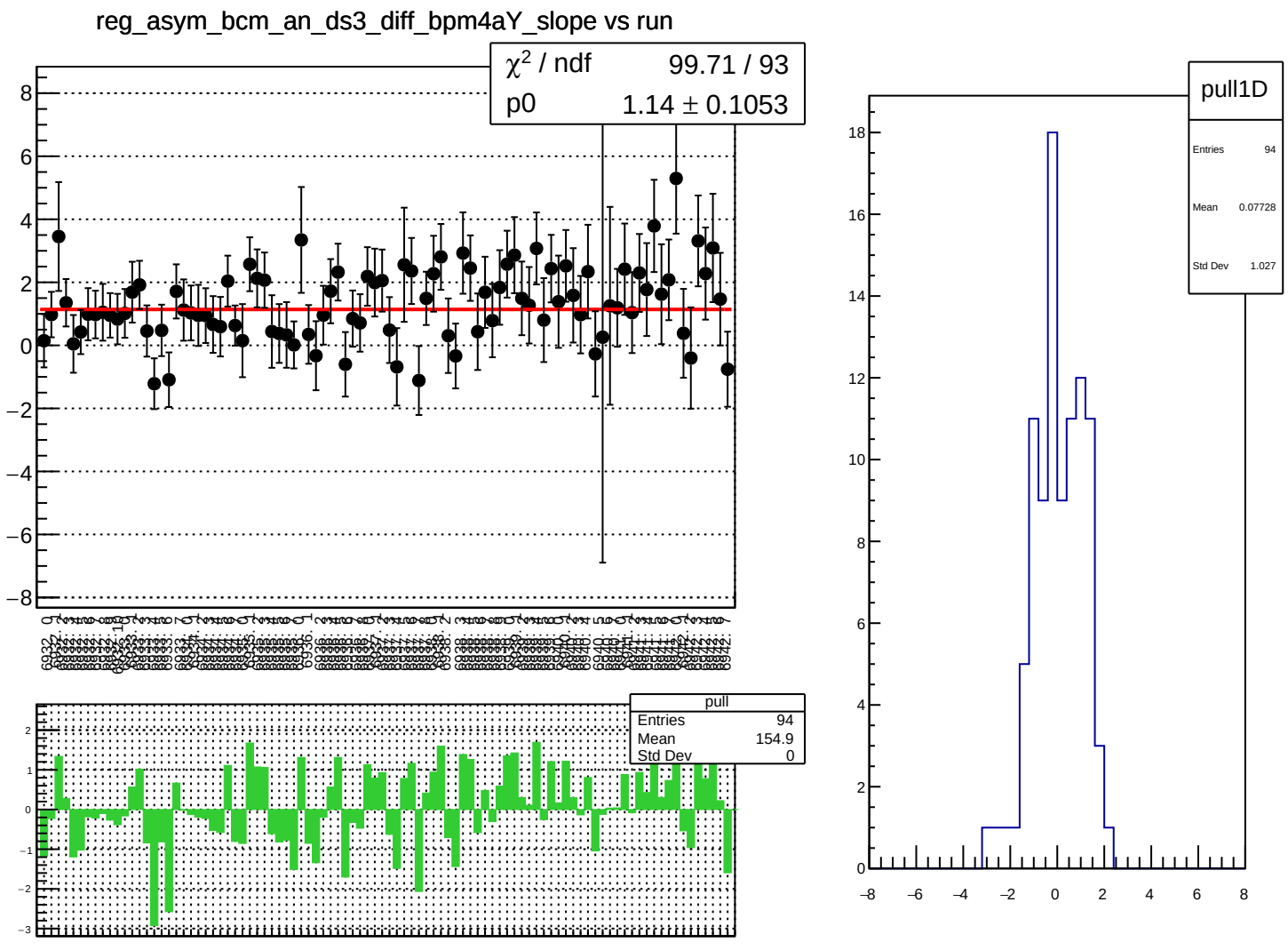

pull1D
Entries 94
Mean −0.01278
Std Dev 0.8038

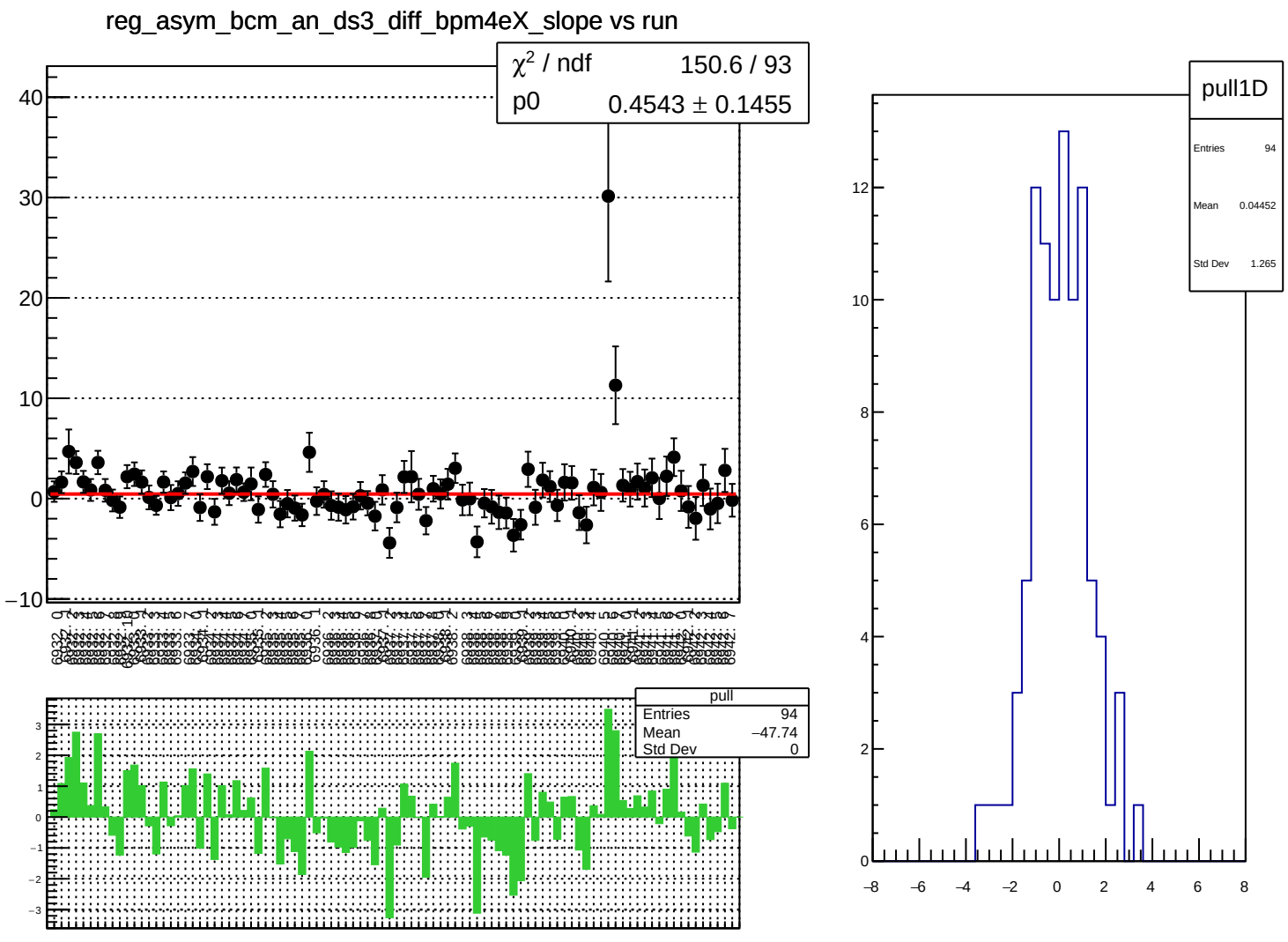

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.3 / 93
p0 0.4783 ± 1.14
pull
Entries 94
Mean 128
Std Dev 0
pull1D
Entries 94
Mean 0.01694
Std Dev 0.9525

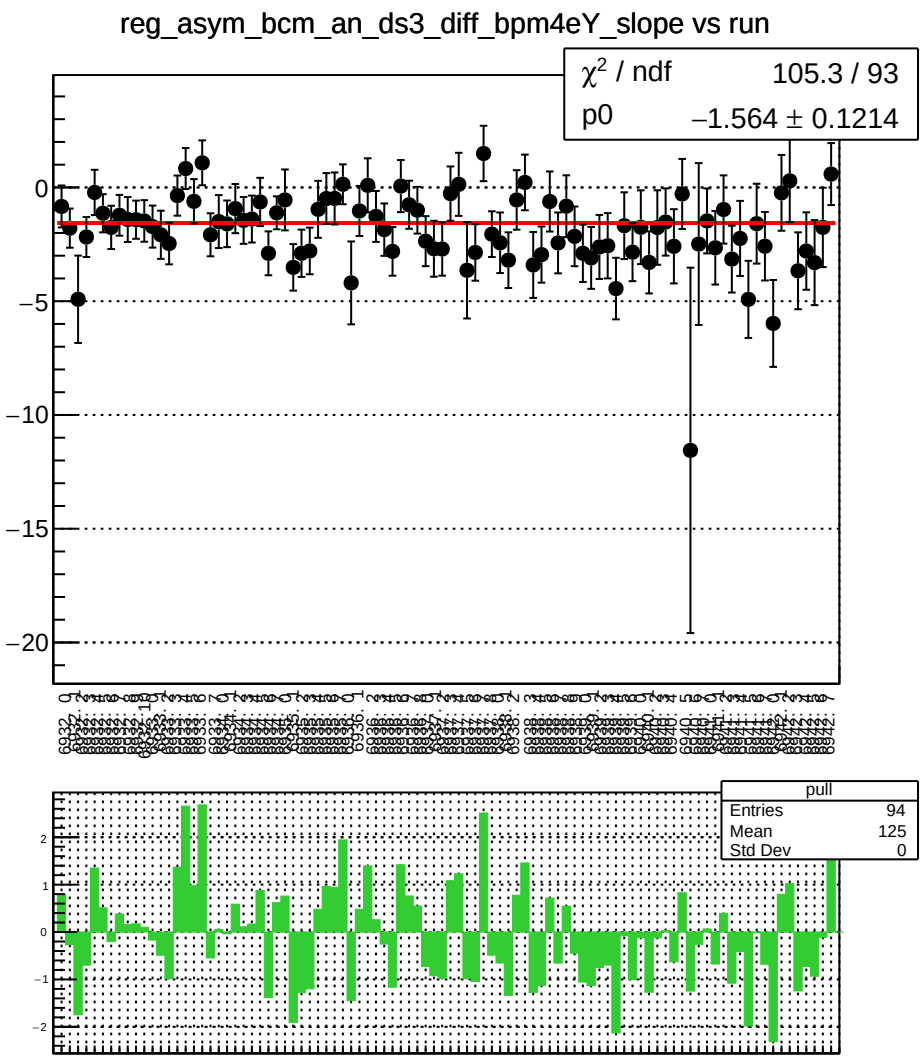

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 103.9 / 93
p0 7.74 ± 0.04603
pull
Entries 94
Mean 590.6
Std Dev 0
pull1D
Entries 94
Mean 0.009123
Std Dev 1.051

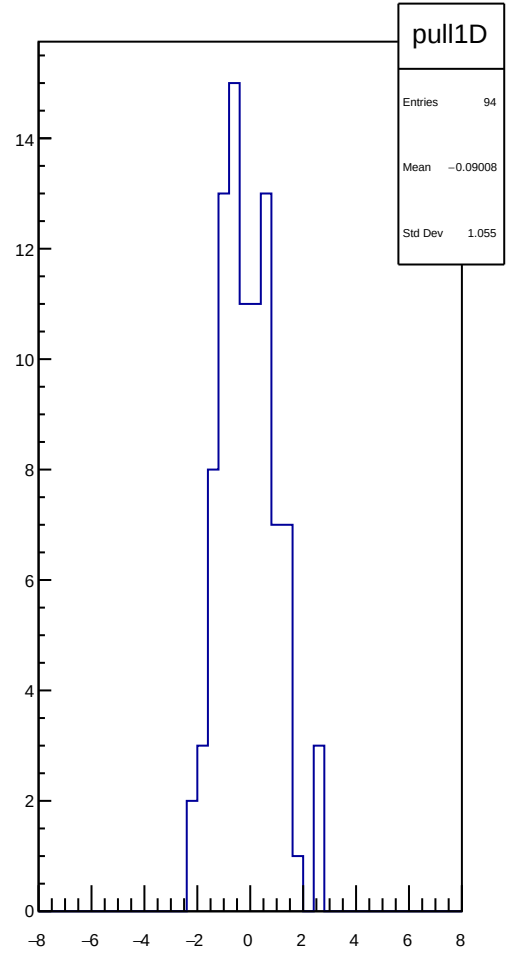

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 146.1 / 93
p0 −0.7609 ± 0.157
pull
Entries 94
Mean −17.36
Std Dev 44.45

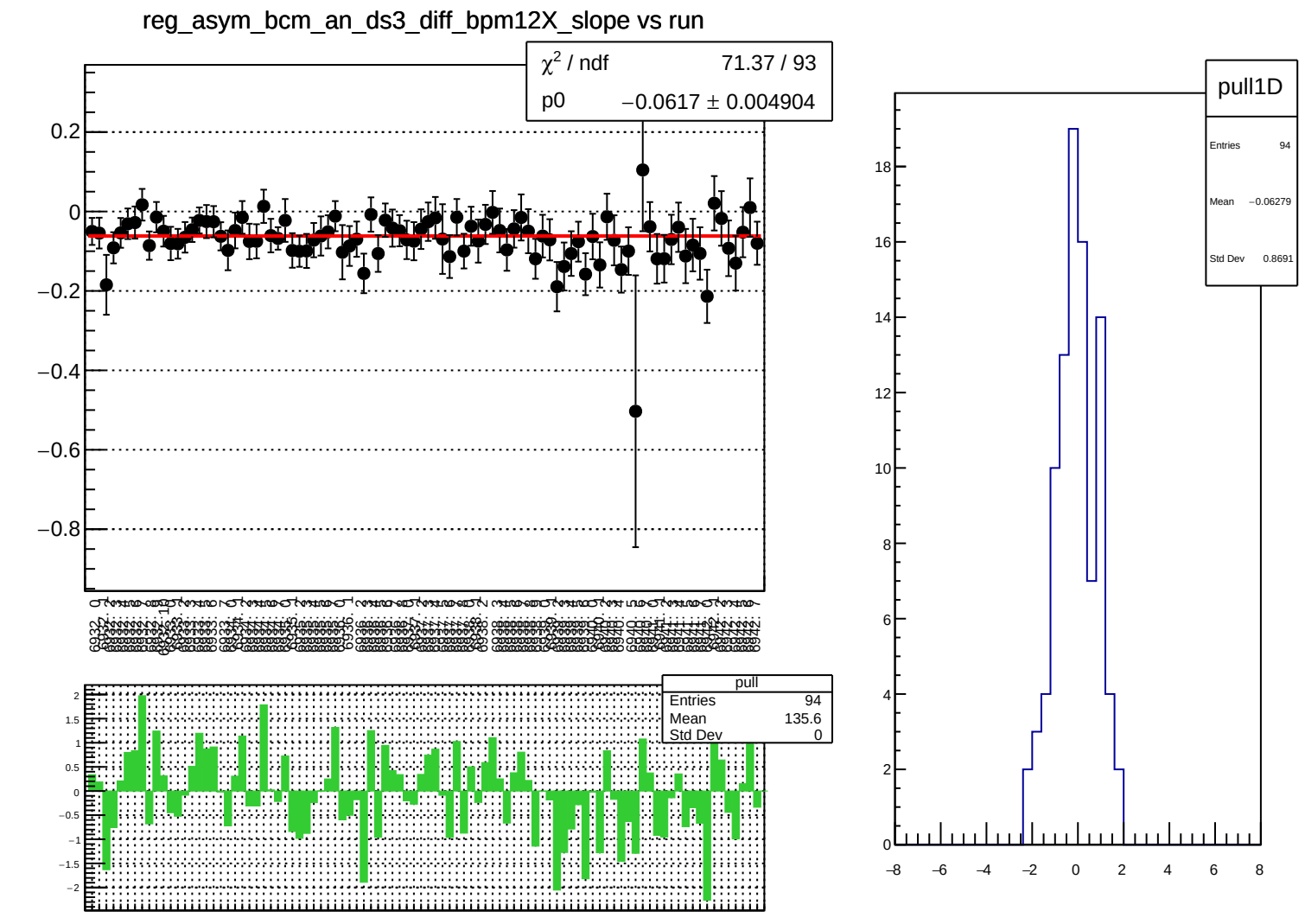

pull1D
Entries 94
Mean −0.05122
Std Dev 1.246

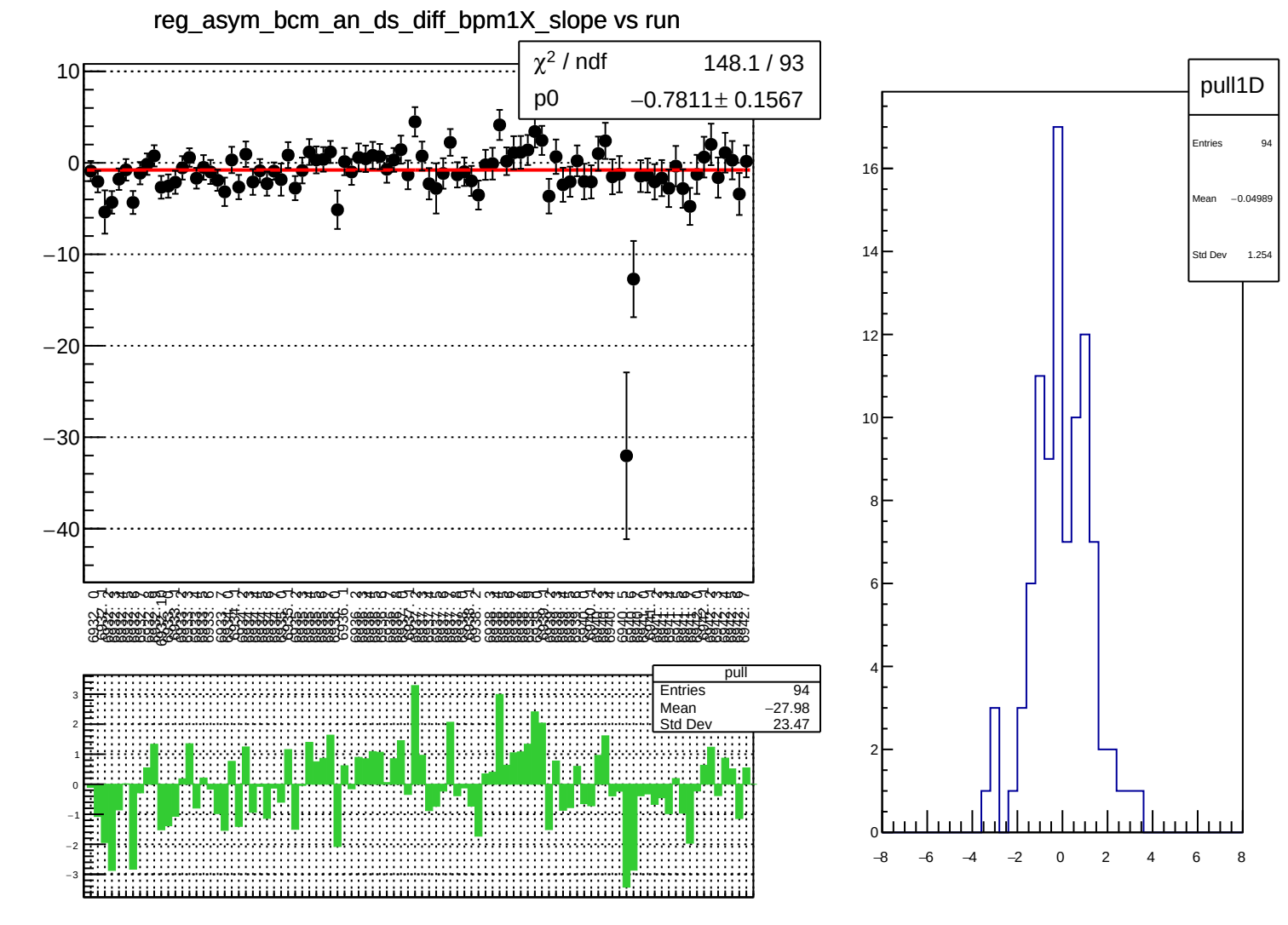

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 99.71 / 93
p0 1.14 ± 0.1053
pull
Entries 94
Mean 154.9
Std Dev 0
pull1D
Entries 94
Mean 0.07728
Std Dev 1.027

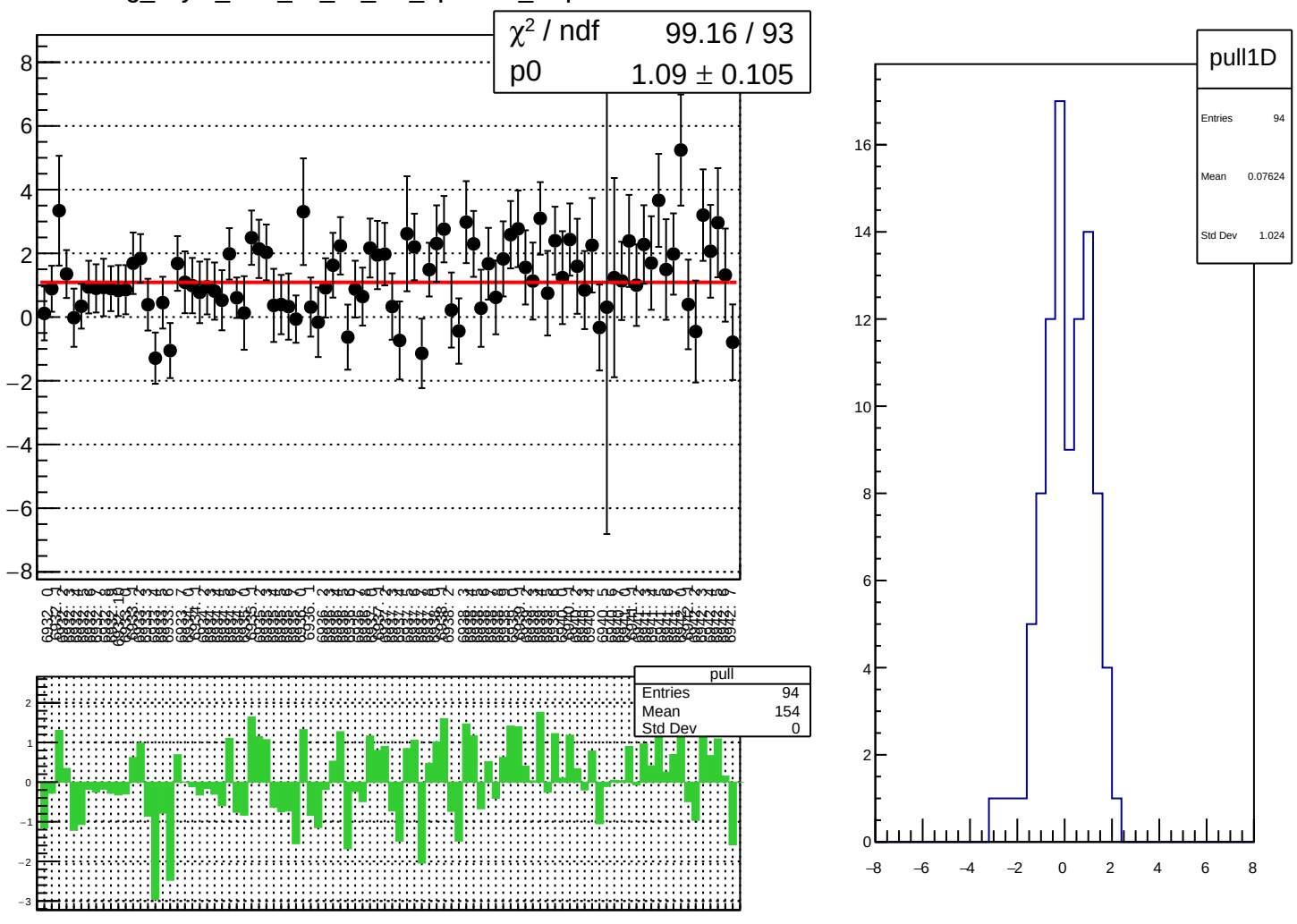

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 150.6 / 93
p0 0.4543 ± 0.1455
pull
Entries 94
Mean −47.74
Std Dev 0
pull1D
Entries 94
Mean 0.04452
Std Dev 1.265

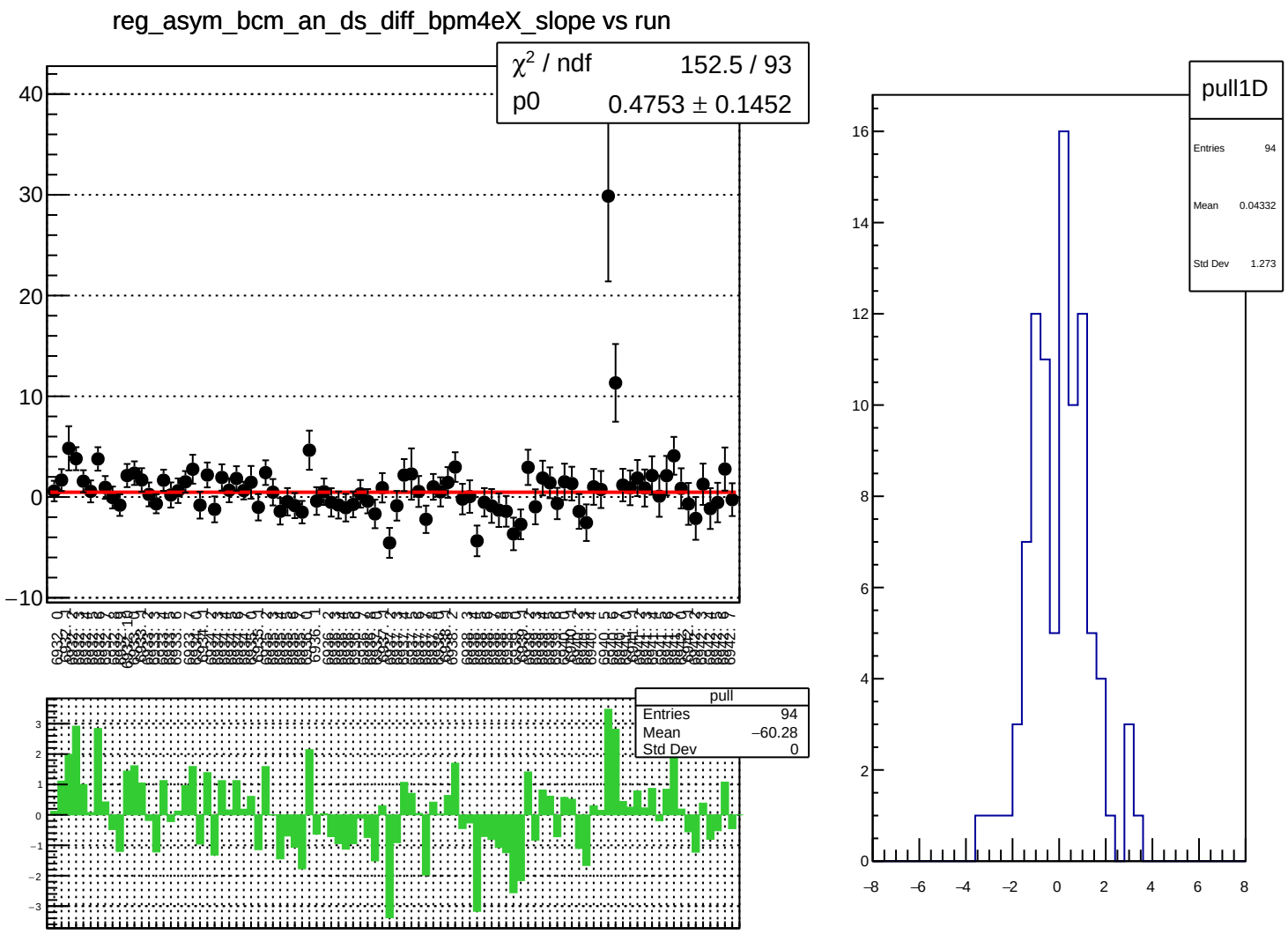

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 105.3 / 93
p0 −1.564 ± 0.1214
pull
Entries 94
Mean 125
Std Dev 0

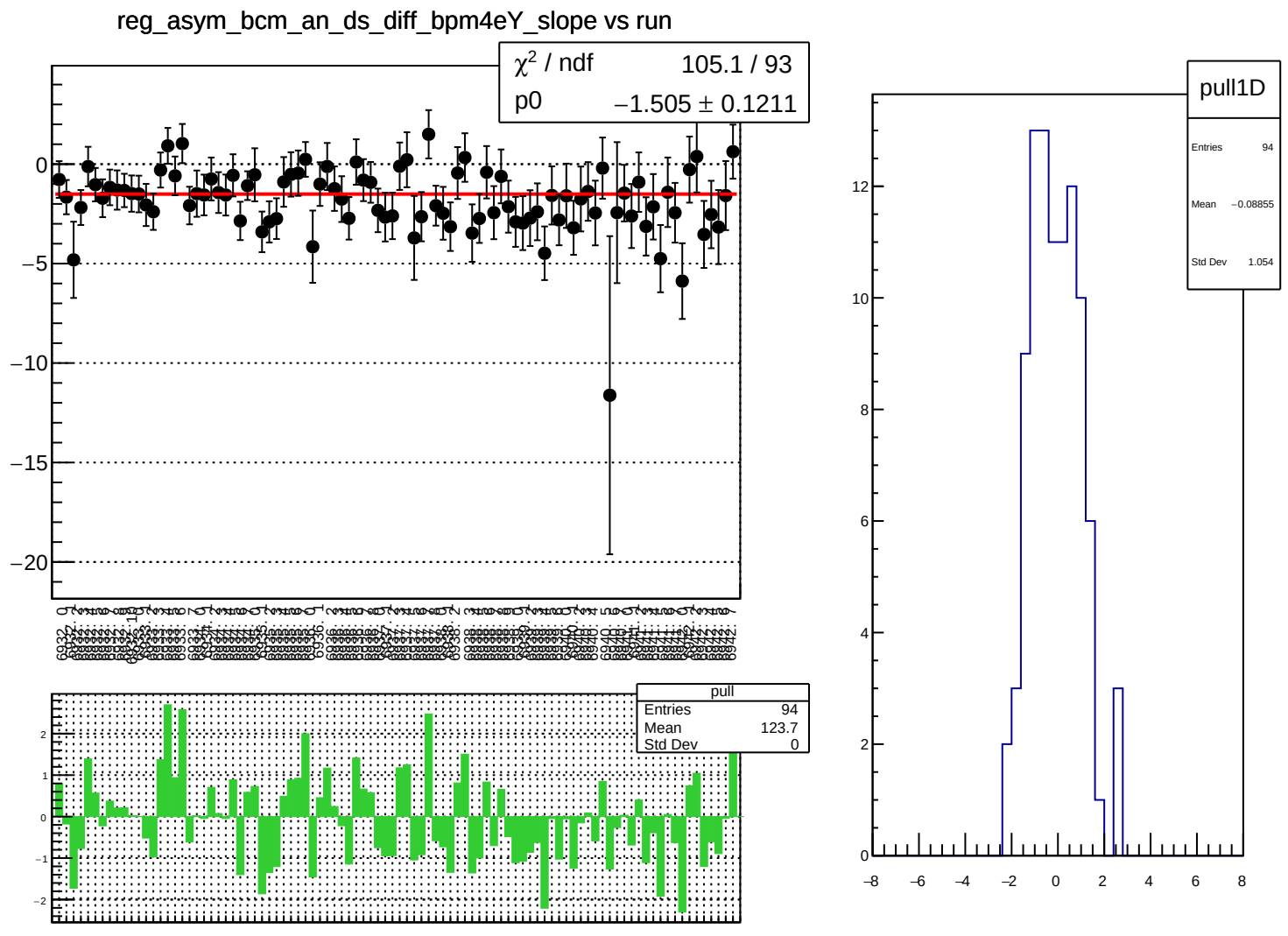

pull1D
Entries 94
Mean −0.09008
Std Dev 1.055

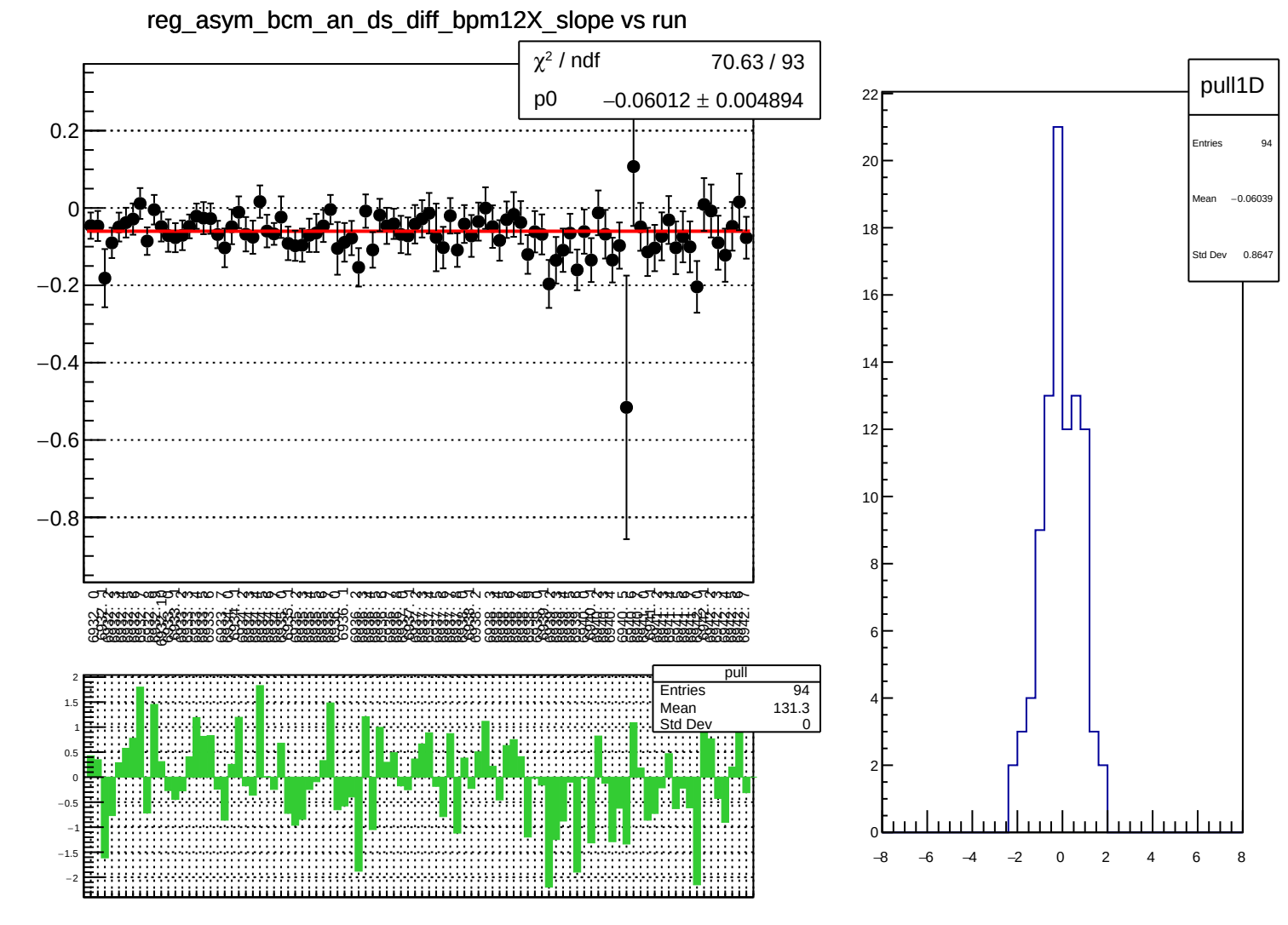

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 71.37 / 93
p0 −0.0617 ± 0.004904
pull
Entries 94
Mean 135.6
Std Dev 0
pull1D
Entries 94
Mean −0.06279
Std Dev 0.8691

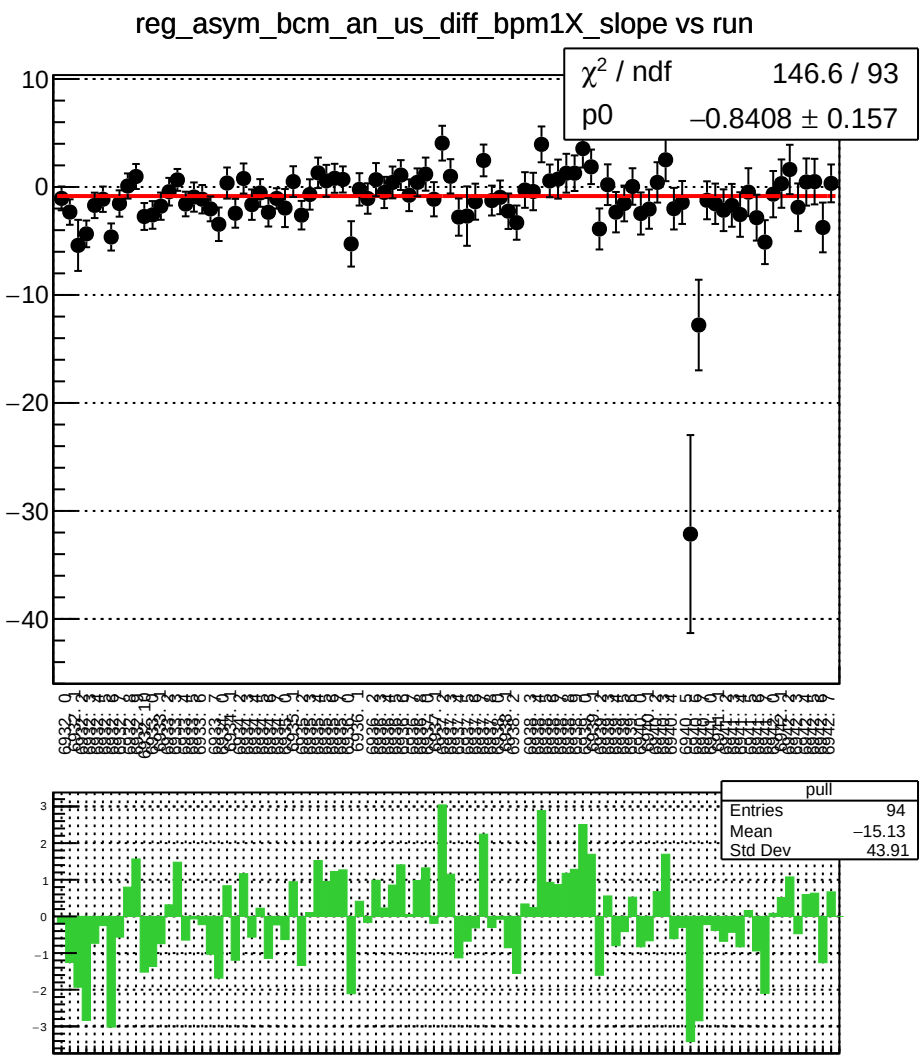

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 148.1 / 93
p0 −0.7811± 0.1567
pull
Entries 94
Mean −27.98
Std Dev 23.47
pull1D
Entries 94
Mean −0.04989
Std Dev 1.254

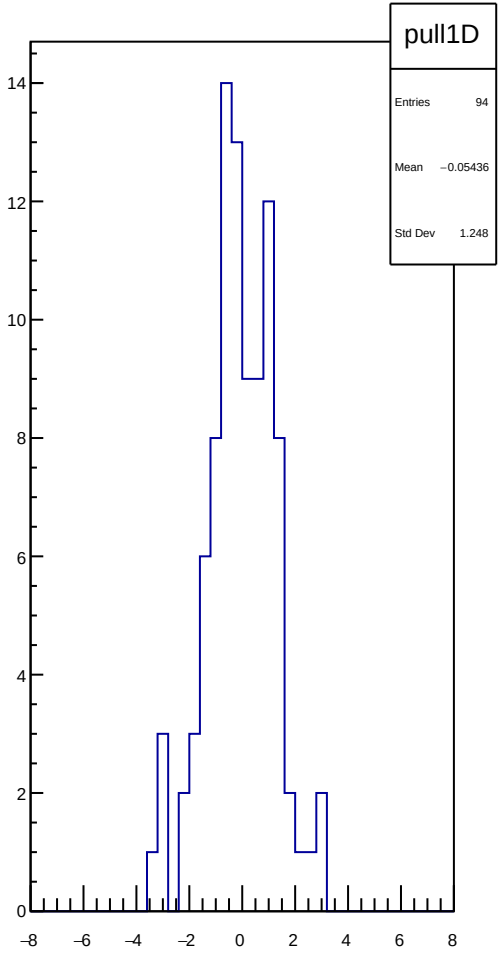

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 99.16 / 93
p0 1.09 ± 0.105
pull
Entries 94
Mean 154
Std Dev 0
pull1D
Entries 94
Mean 0.07624
Std Dev 1.024

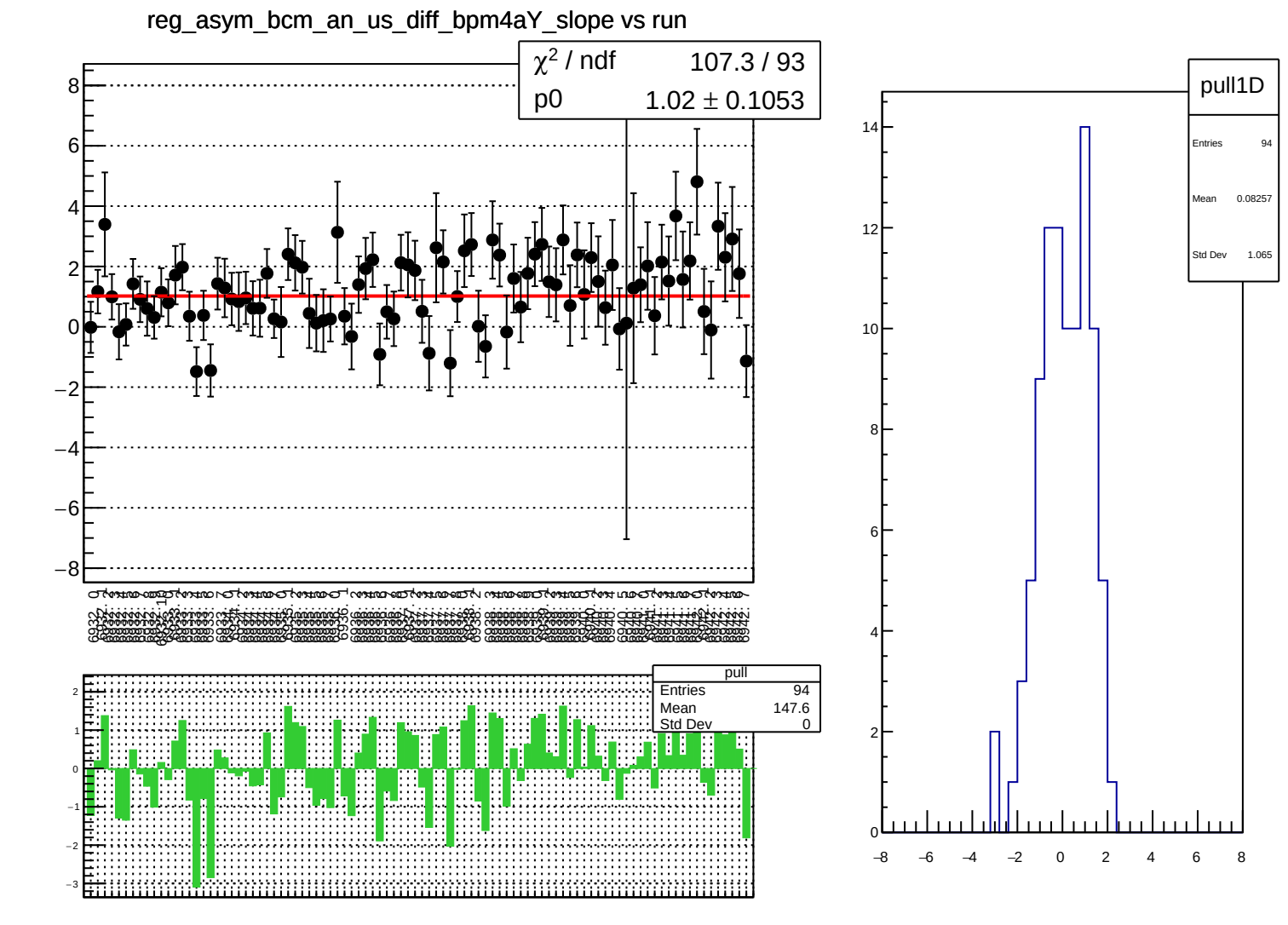

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 152.5 / 93
p0 0.4753 ± 0.1452
pull
Entries 94
Mean −60.28
Std Dev 0
pull1D
Entries 94
Mean 0.04332
Std Dev 1.273

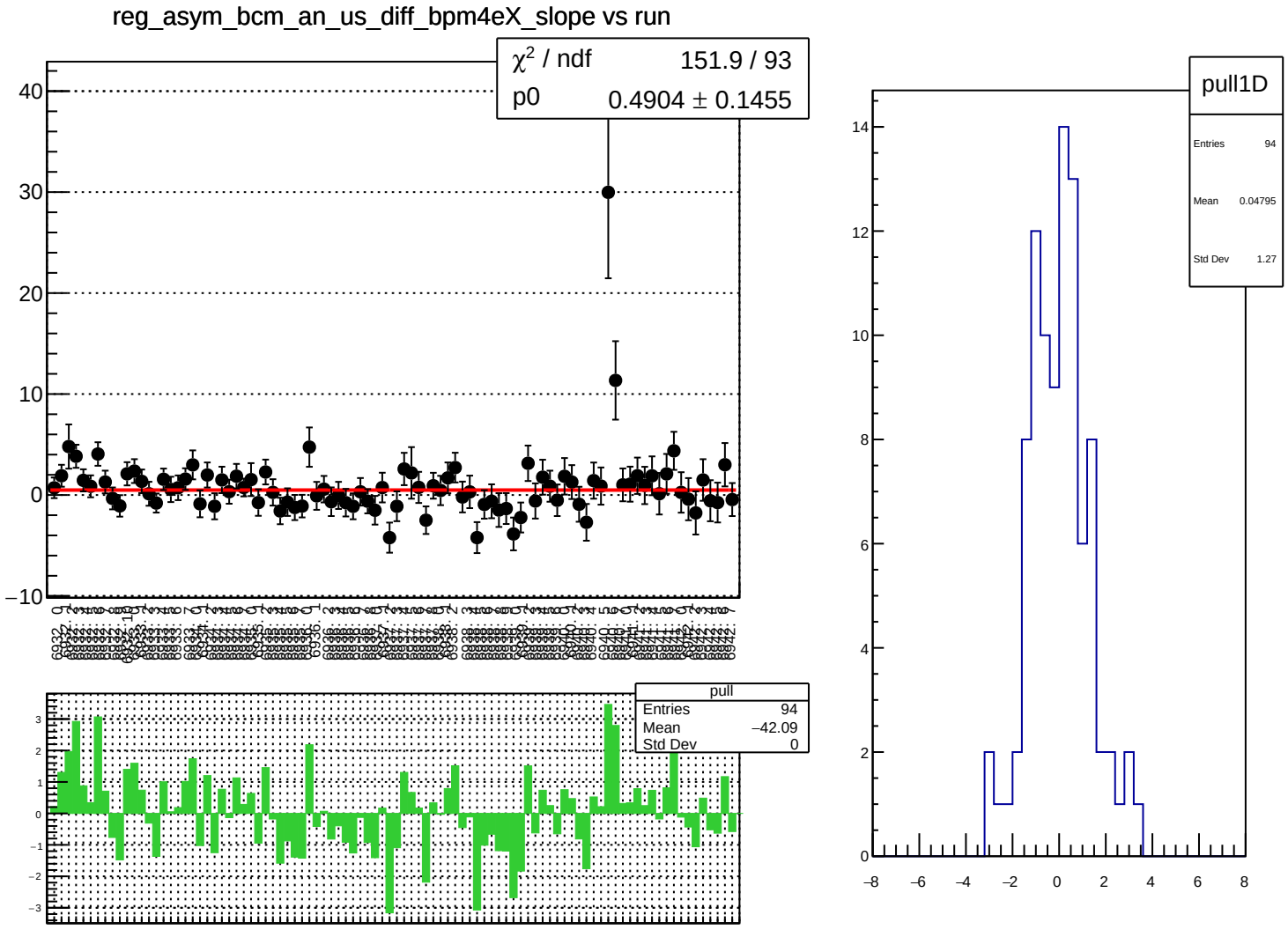

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 105.1 / 93
p0 −1.505 ± 0.1211
0
−5
−10
−15
−20
pull
Entries 94
Mean 123.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.08855
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

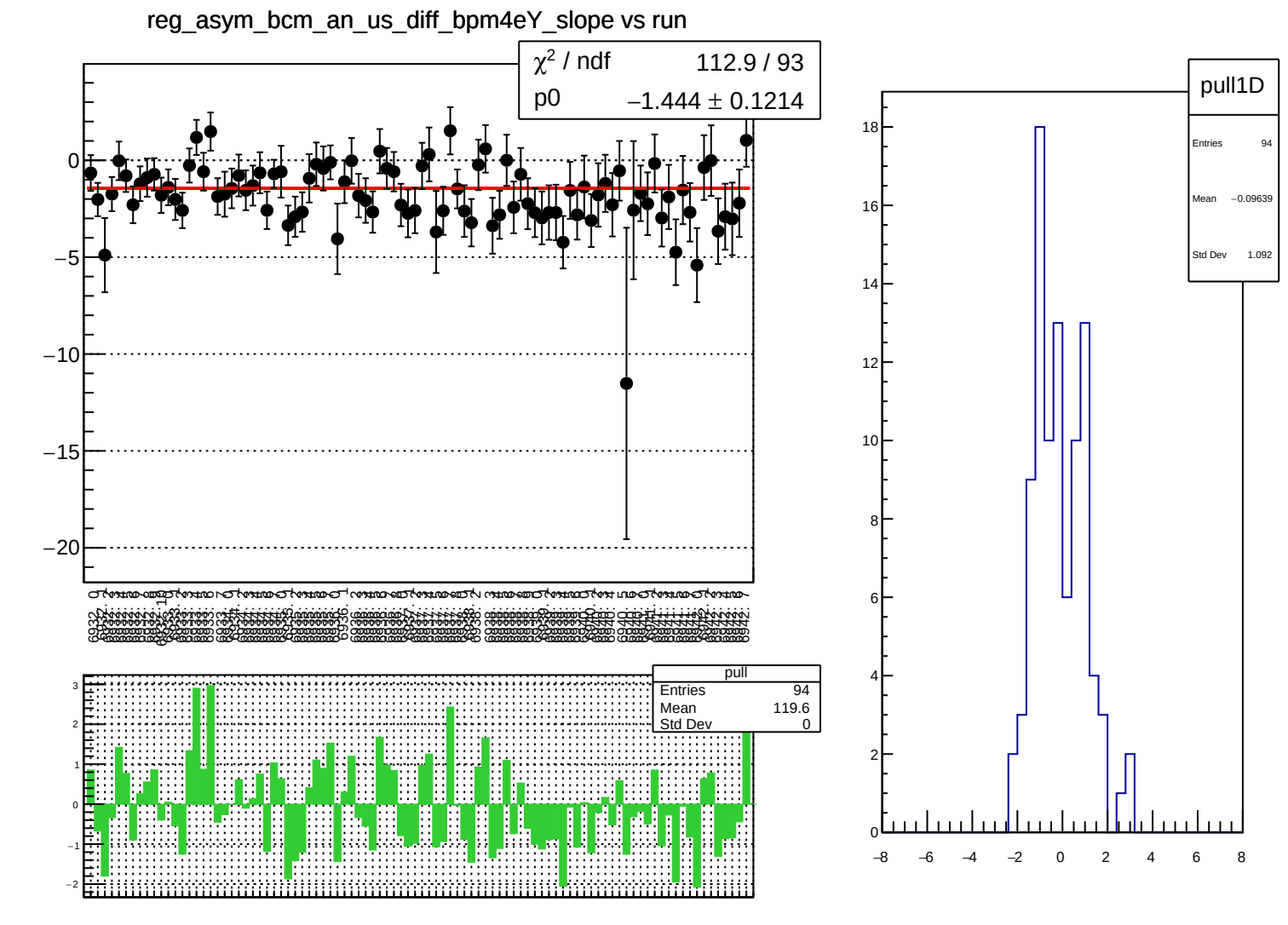

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 70.63 / 93
p0 −0.06012 ± 0.004894
pull
Entries 94
Mean 131.3
Std Dev 0
pull1D
Entries 94
Mean −0.06039
Std Dev 0.8647

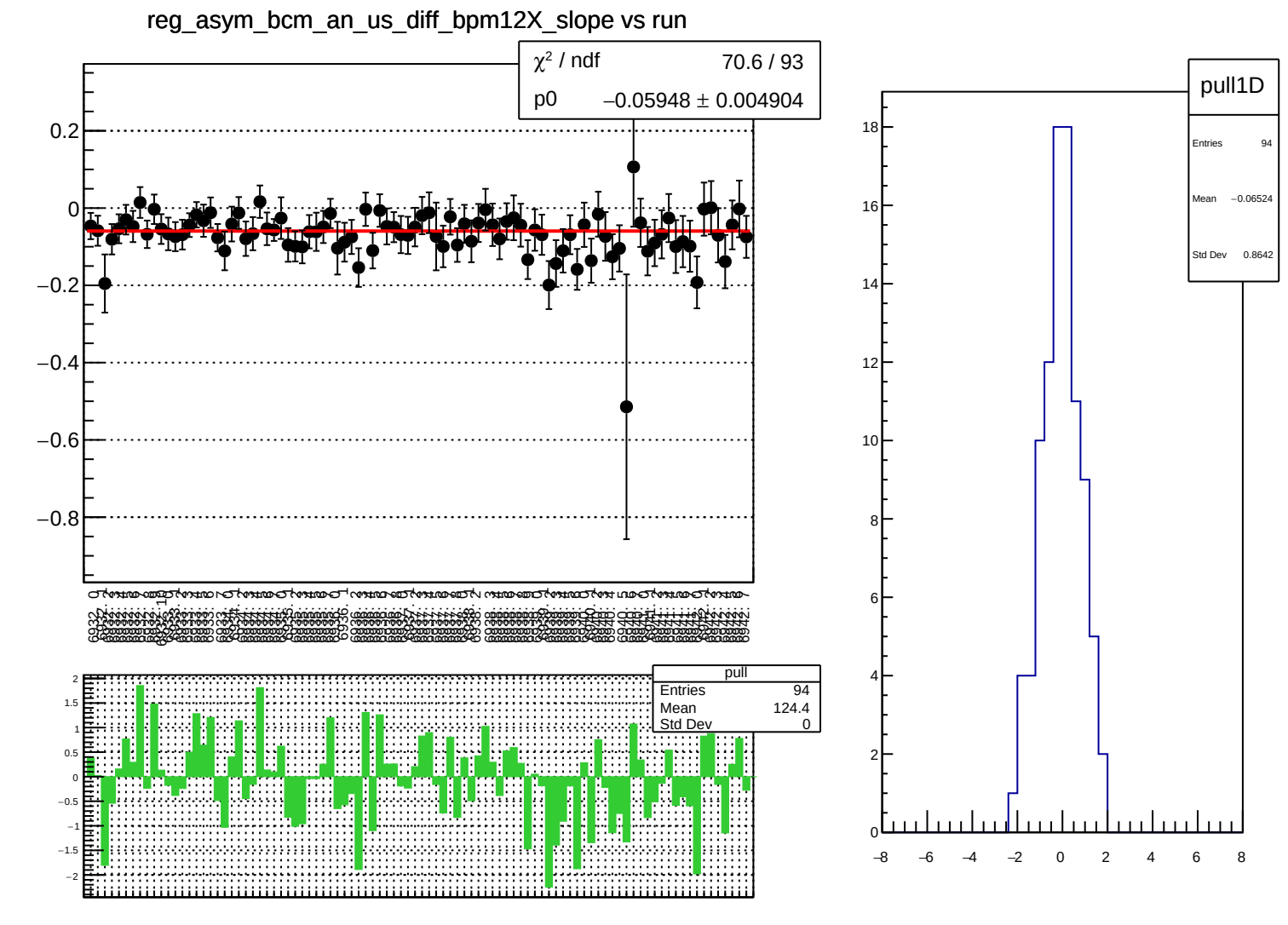

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 146.6 / 93
p0 −0.8408 ± 0.157
pull
Entries 94
Mean −15.13
Std Dev 43.91

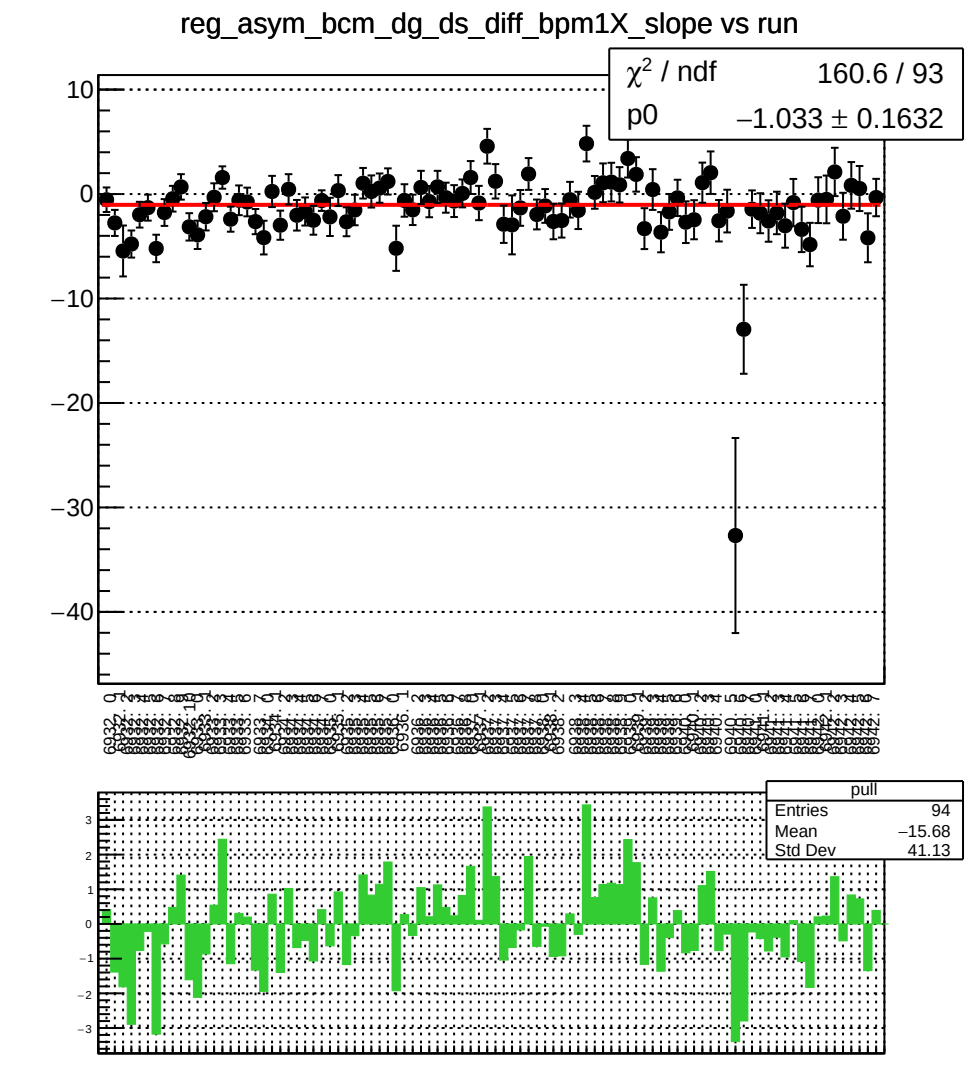

pull1D
Entries 94
Mean −0.05436
Std Dev 1.248

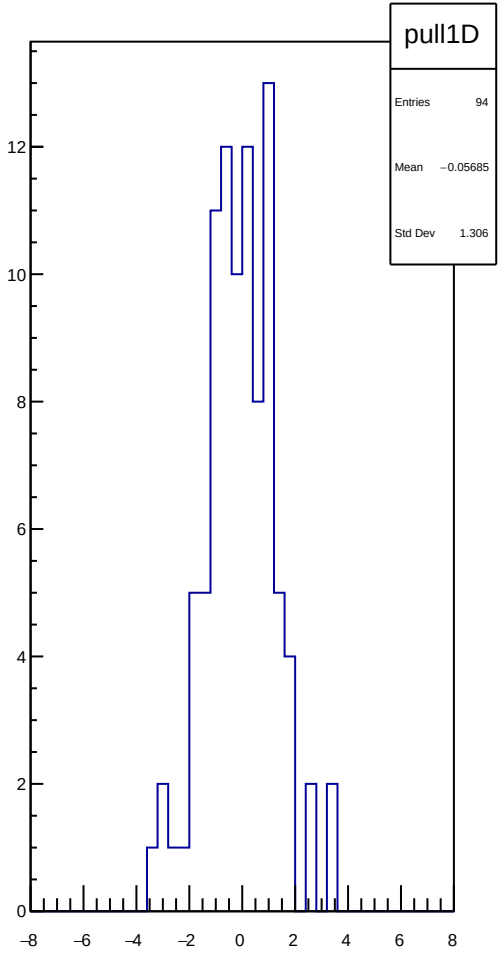

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 107.3 / 93
p0 1.02 ± 0.1053
pull
Entries 94
Mean 147.6
Std Dev 0
pull1D
Entries 94
Mean 0.08257
Std Dev 1.065

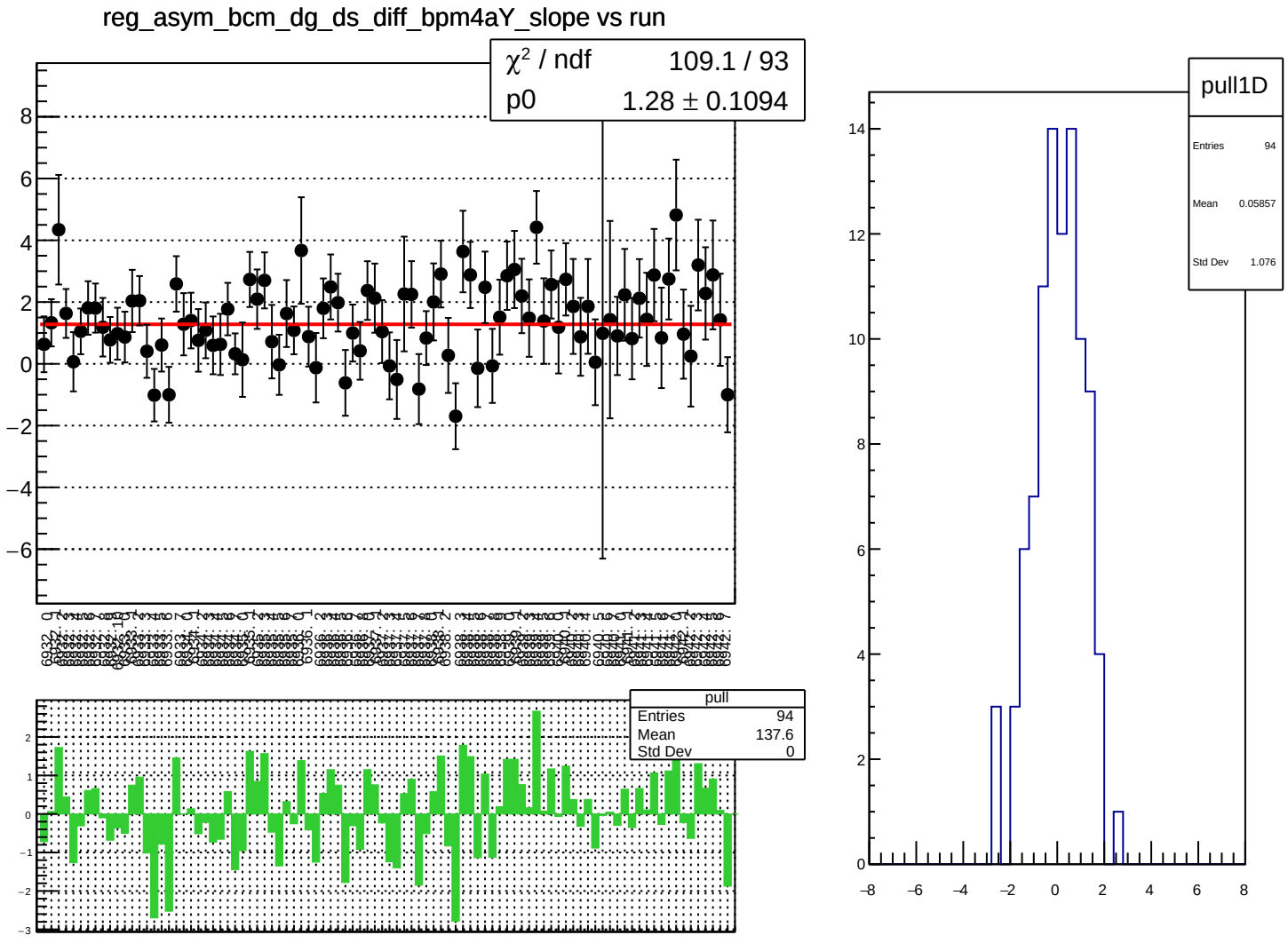

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 151.9 / 93
p0 0.4904 ± 0.1455
pull
Entries 94
Mean −42.09
Std Dev 0
pull1D
Entries 94
Mean 0.04795
Std Dev 1.27

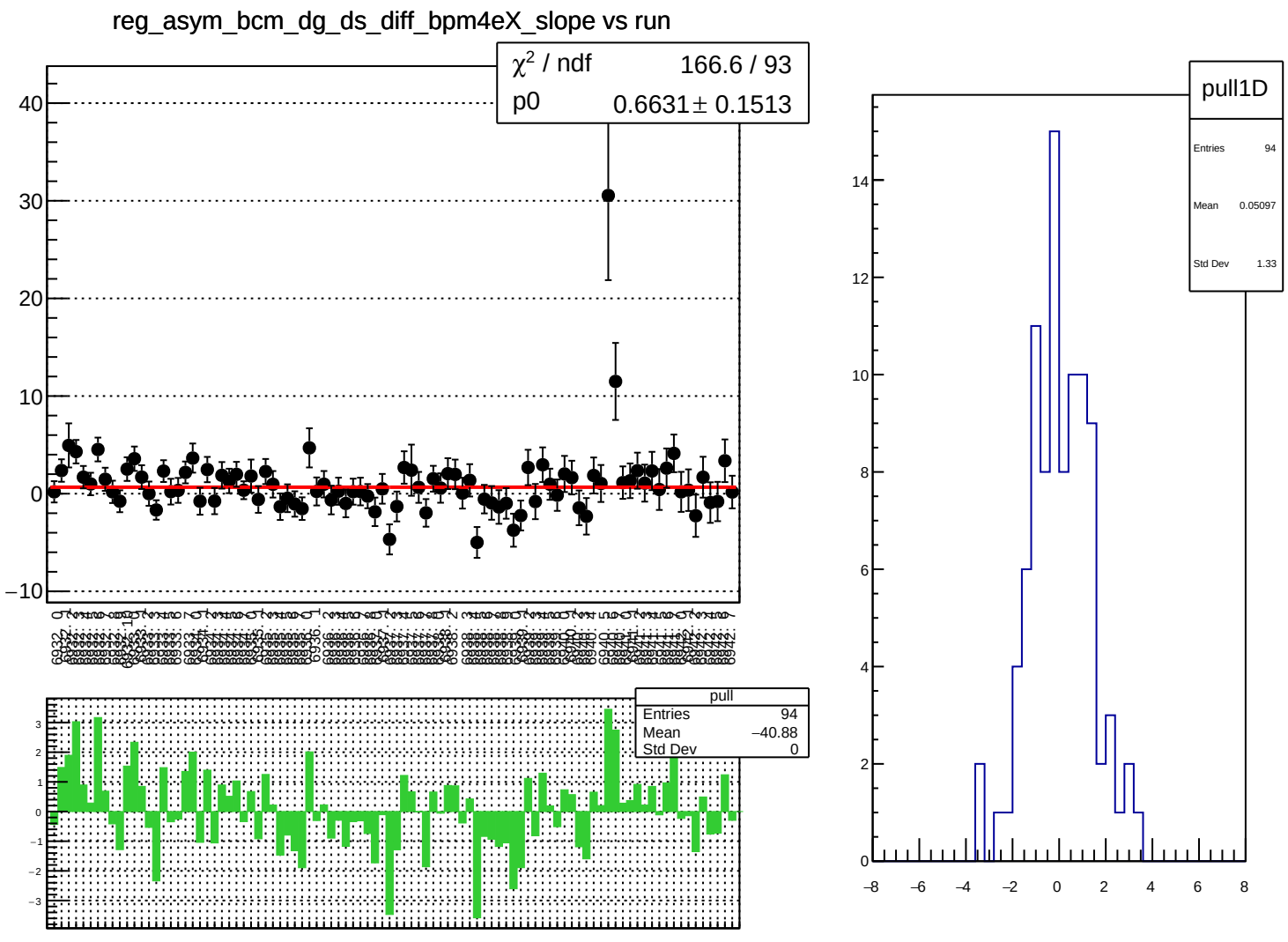

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 112.9 / 93
p0 −1.444 ± 0.1214
pull
Entries 94
Mean 119.6
Std Dev 0
pull1D
Entries 94
Mean −0.09639
Std Dev 1.092

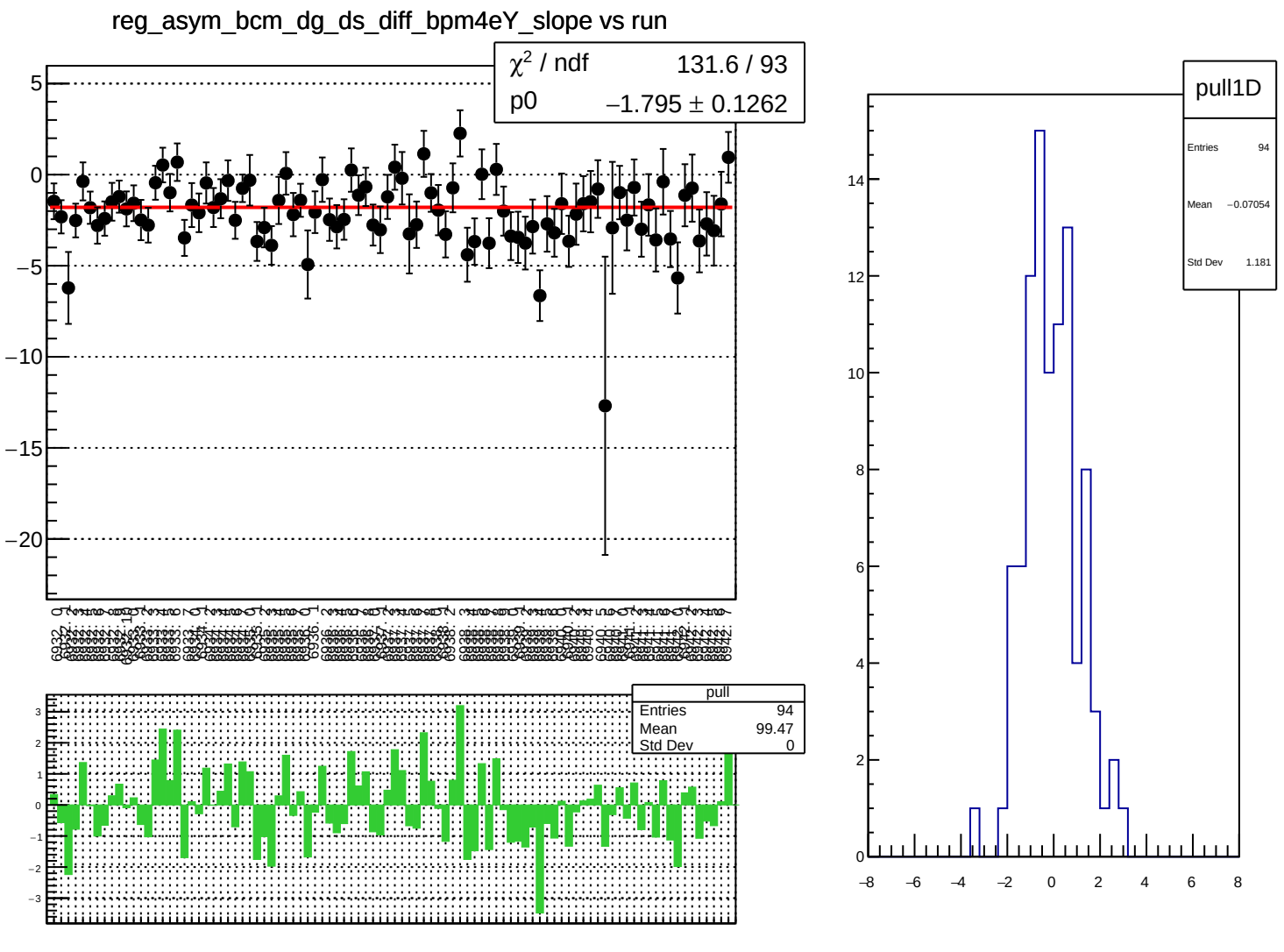

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 70.6 / 93
p0 −0.05948 ± 0.004904
pull
Entries 94
Mean 124.4
Std Dev 0
pull1D
Entries 94
Mean −0.06524
Std Dev 0.8642

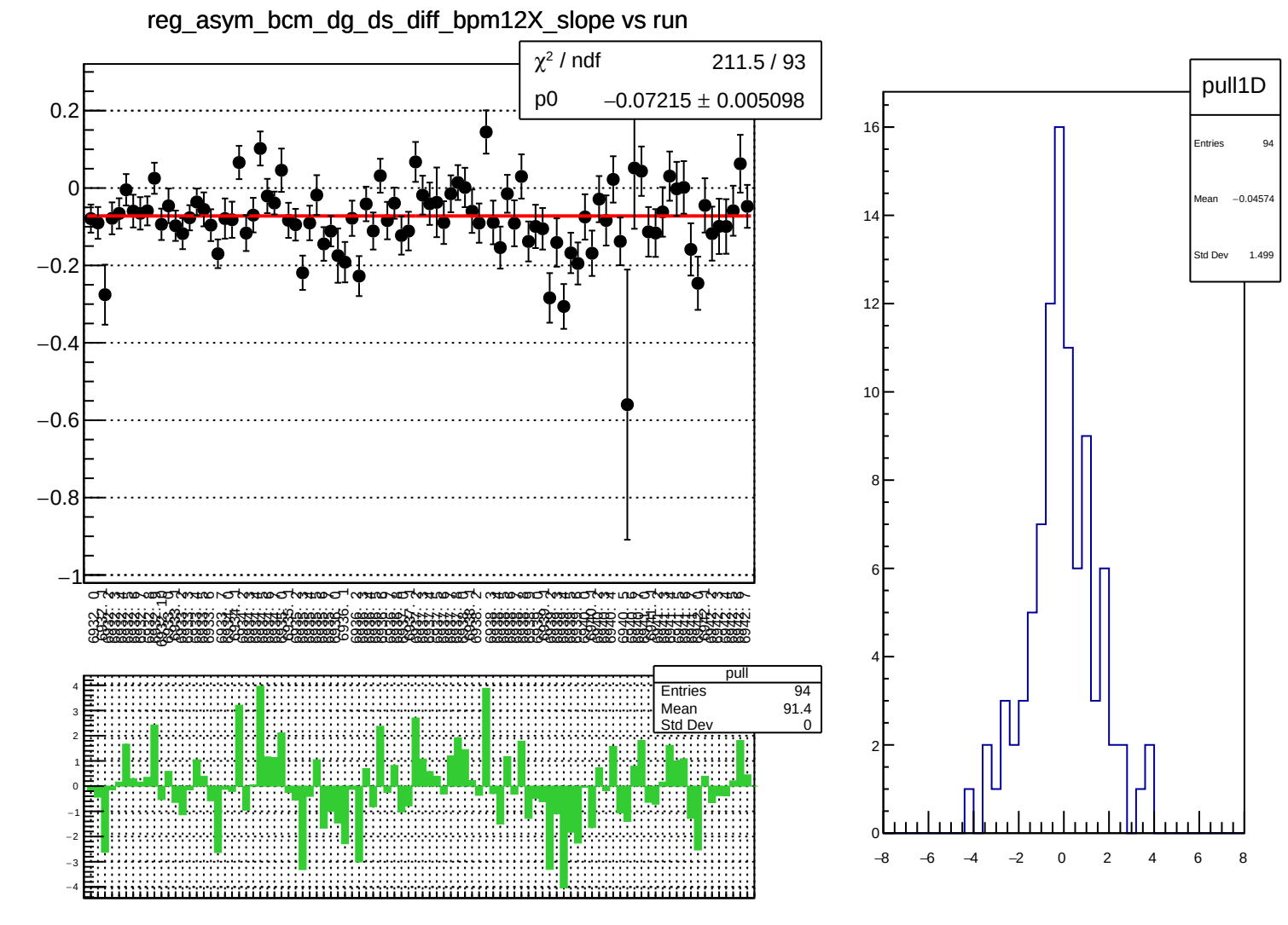

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 160.6 / 93
p0 −1.033 ± 0.1632
pull
Entries 94
Mean −15.68
Std Dev 41.13

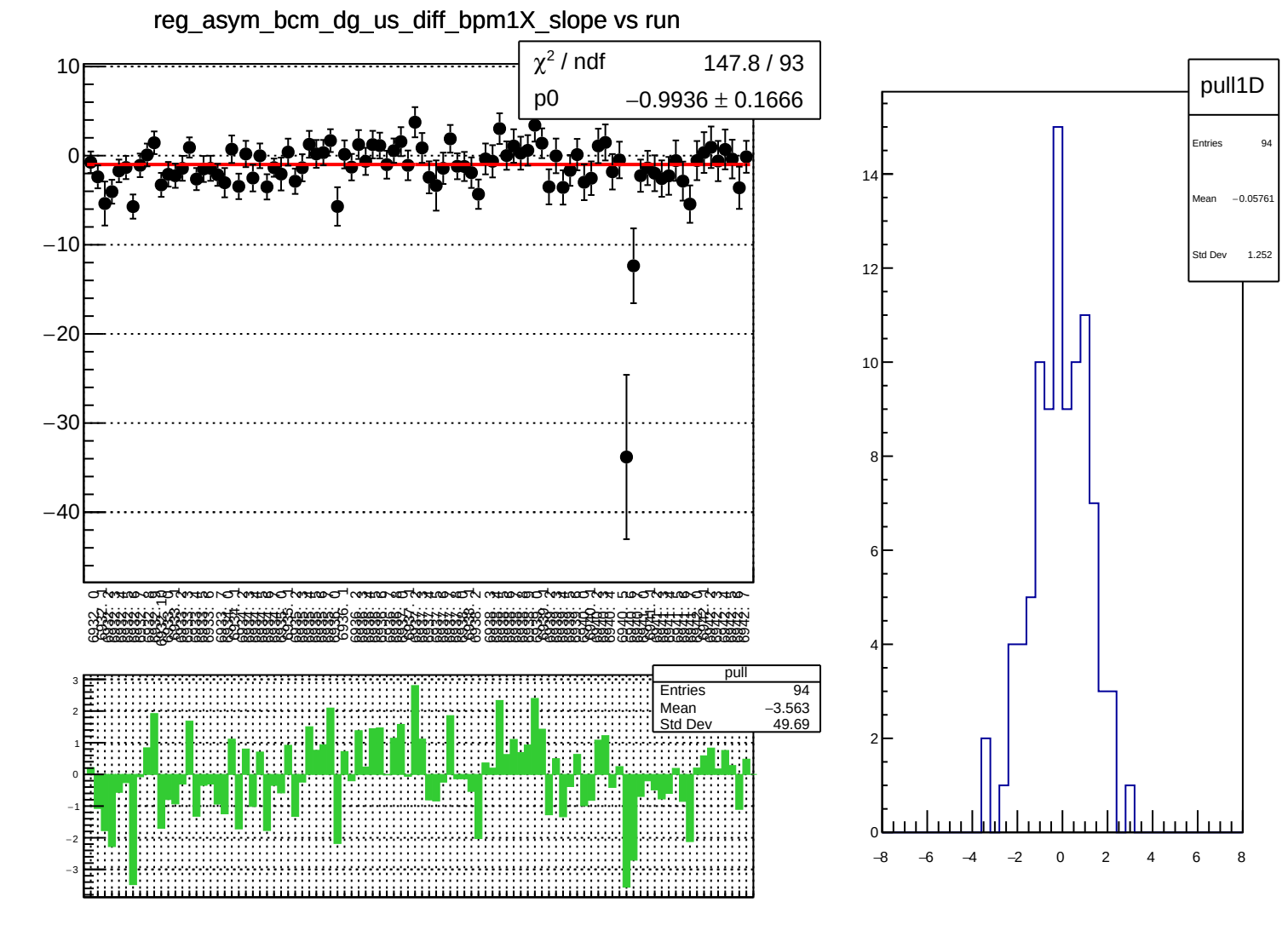

pull1D
Entries 94
Mean −0.05685
Std Dev 1.306

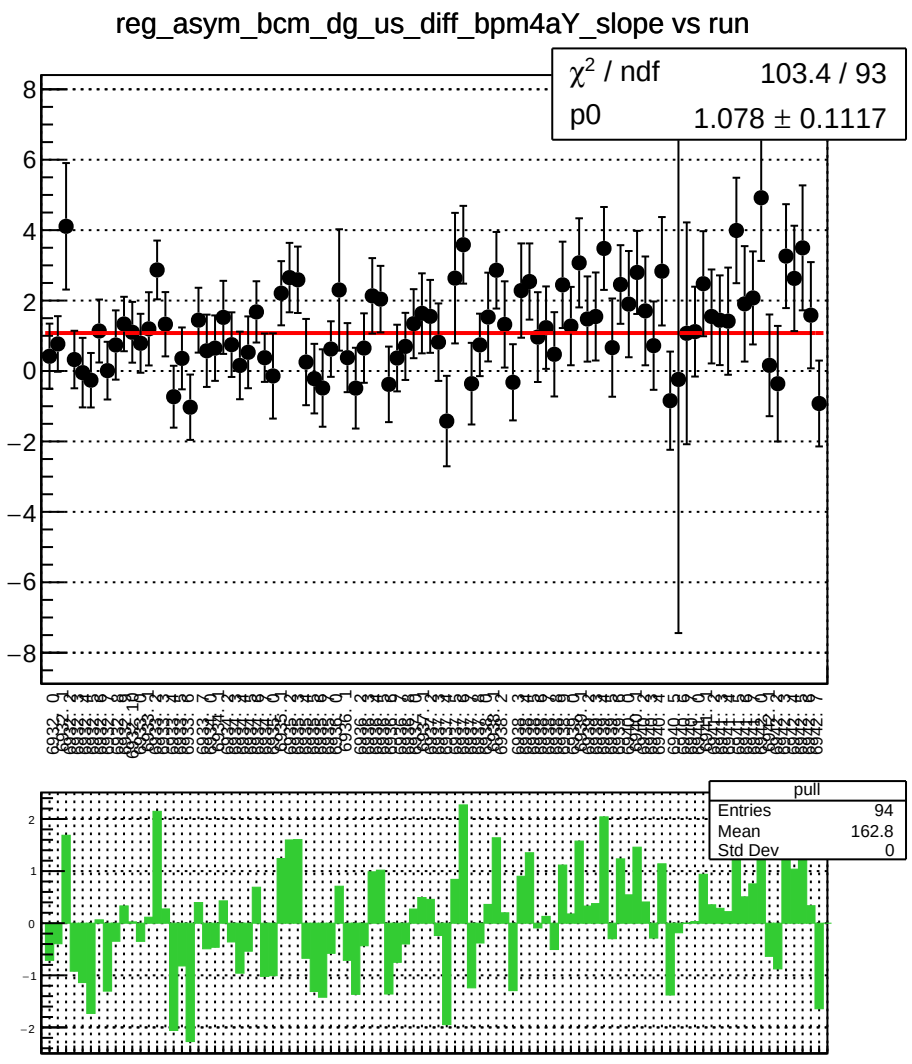

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 109.1 / 93
p0 1.28 ± 0.1094
pull
Entries 94
Mean 137.6
Std Dev 0
pull1D
Entries 94
Mean 0.05857
Std Dev 1.076

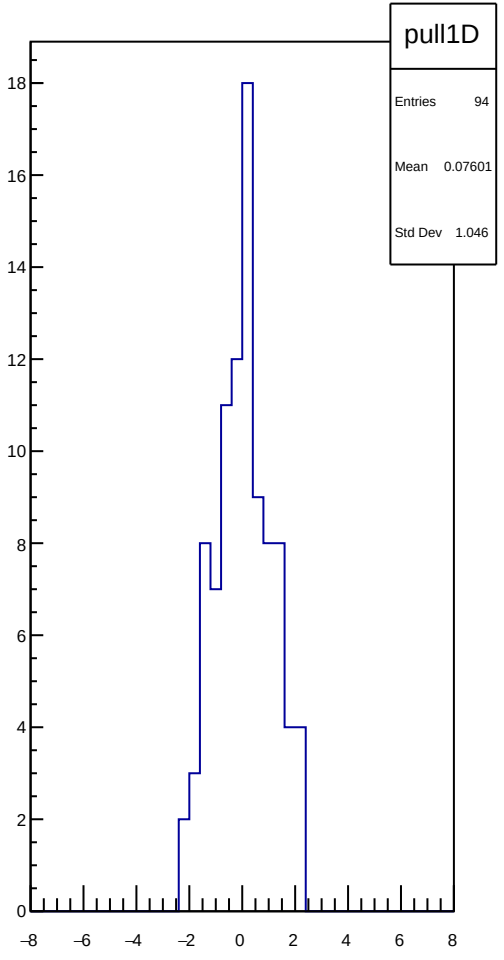

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 166.6 / 93
p0 0.6631± 0.1513
pull
Entries 94
Mean −40.88
Std Dev 0
pull1D
Entries 94
Mean 0.05097
Std Dev 1.33

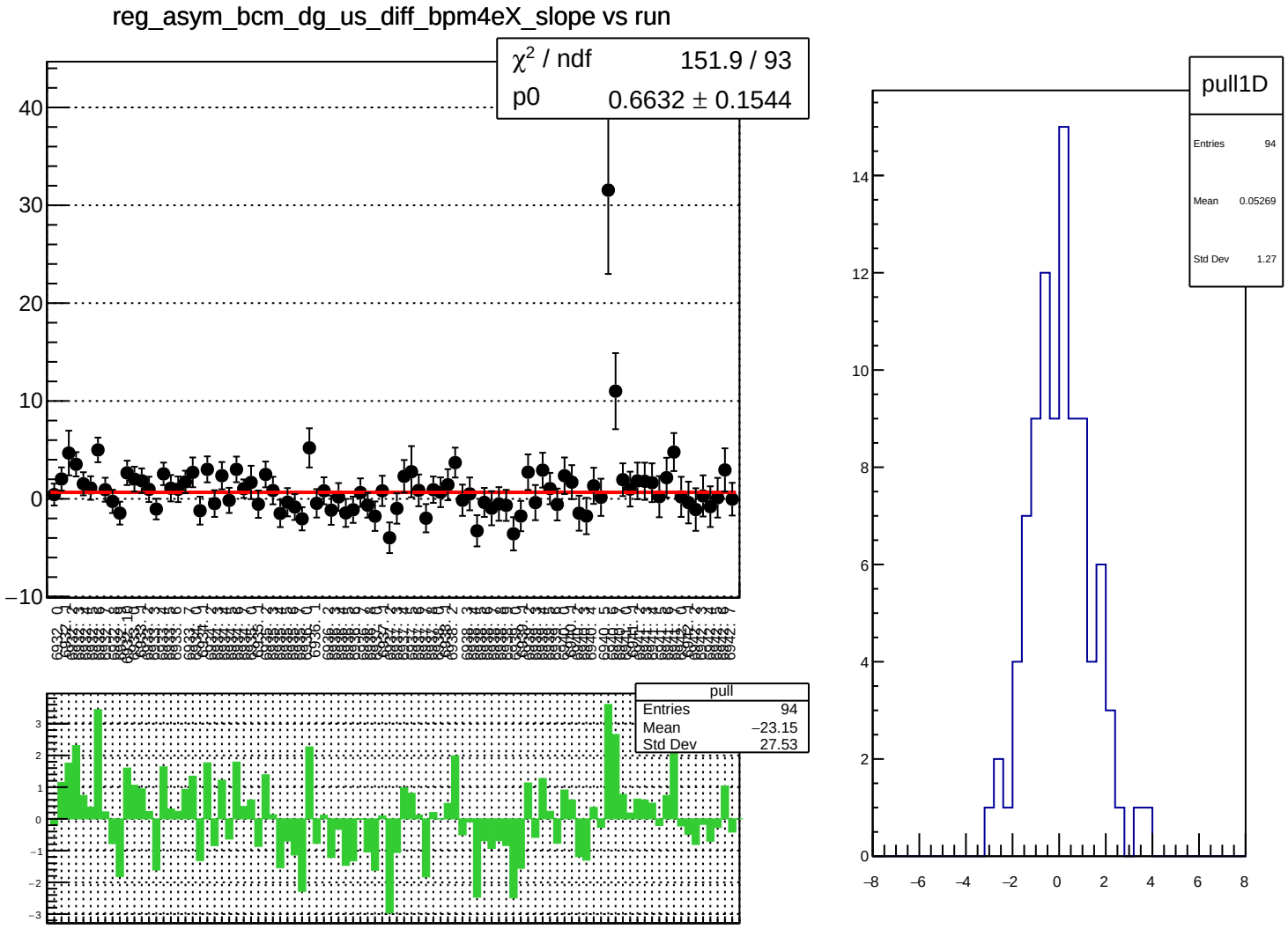

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 131.6 / 93
p0 −1.795 ± 0.1262
pull
Entries 94
Mean 99.47
Std Dev 0
pull1D
Entries 94
Mean −0.07054
Std Dev 1.181

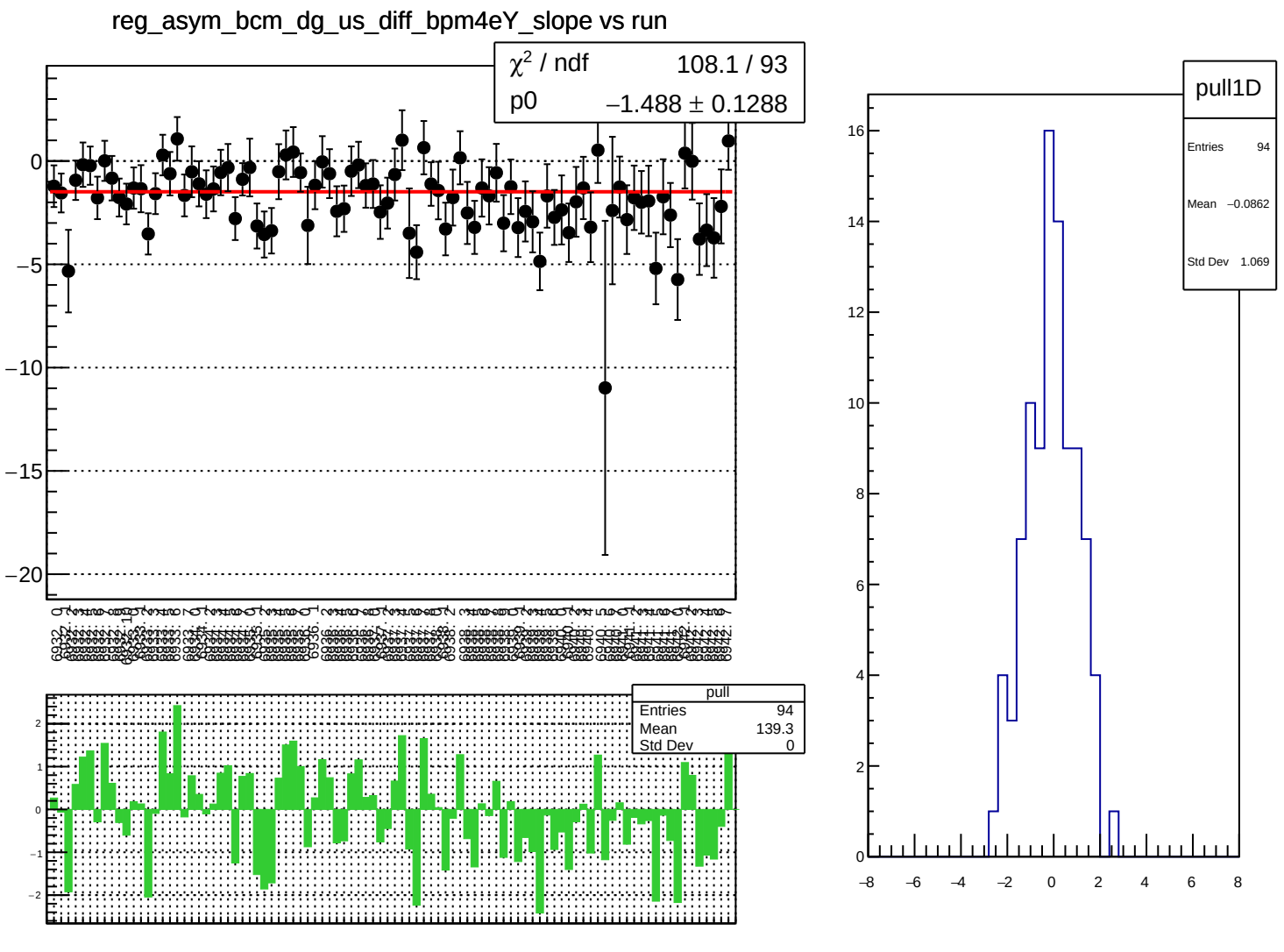

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 211.5 / 93
p0 −0.07215 ± 0.005098
pull
Entries 94
Mean 91.4
Std Dev 0
pull1D
Entries 94
Mean −0.04574
Std Dev 1.499

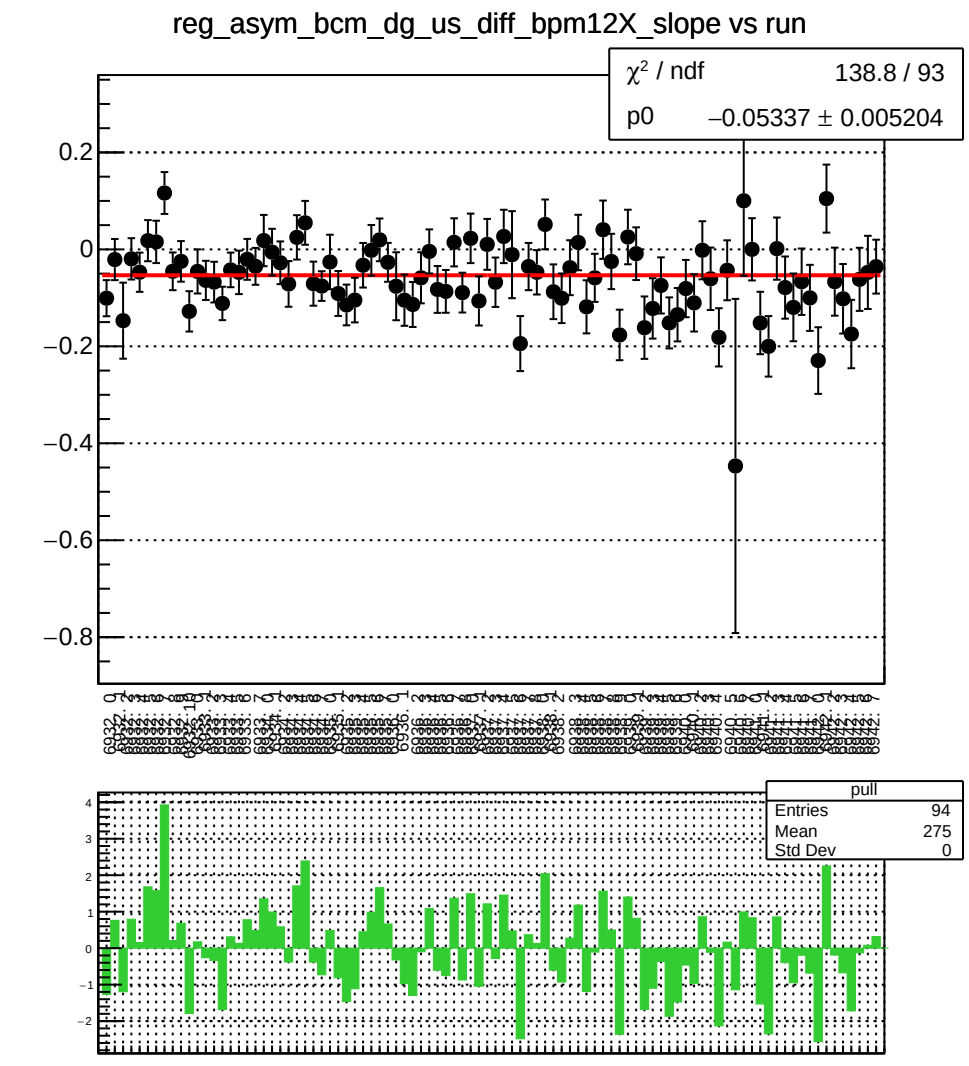

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 147.8 / 93
p0 −0.9936 ± 0.1666
pull
Entries 94
Mean −3.563
Std Dev 49.69
pull1D
Entries 94
Mean −0.05761
Std Dev 1.252

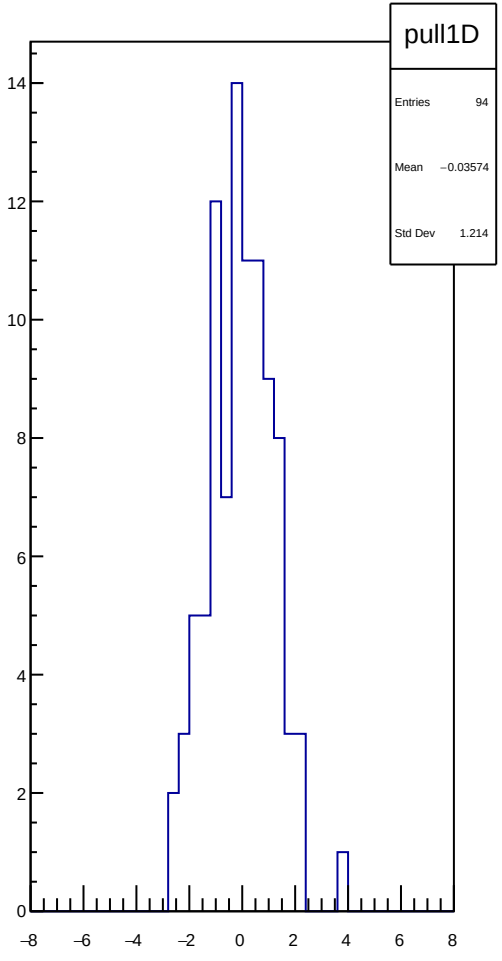

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 103.4 / 93
p0 1.078 ± 0.1117
pull
Entries 94
Mean 162.8
Std Dev 0

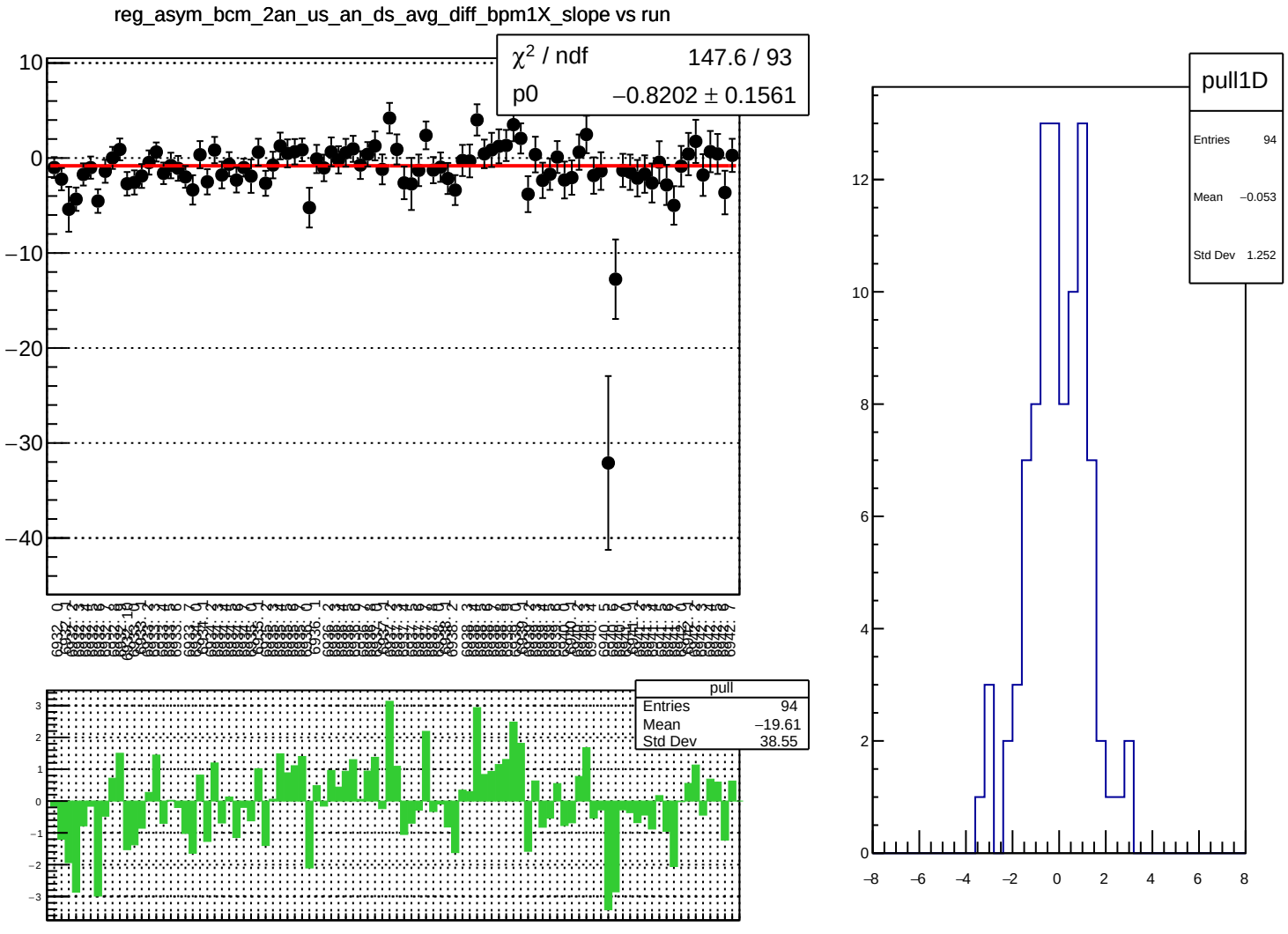

pull1D
Entries 94
Mean 0.07601
Std Dev 1.046

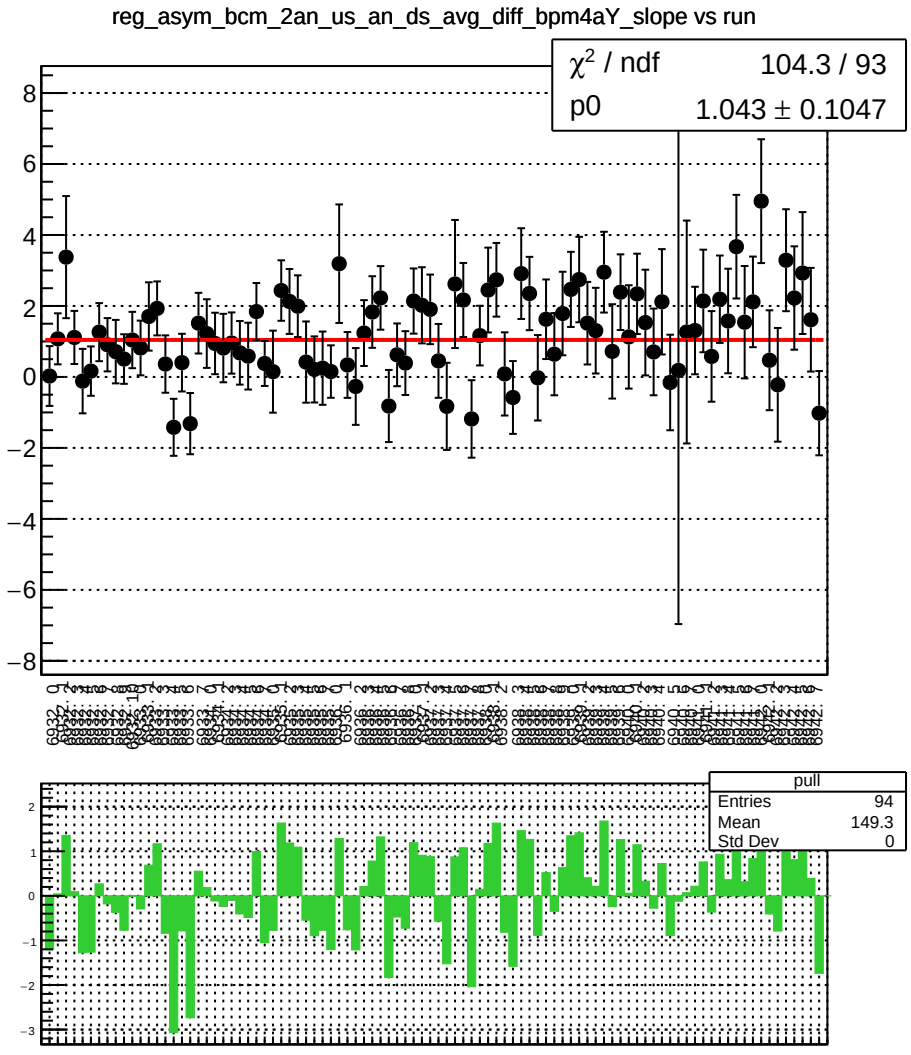

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 151.9 / 93
p0 0.6632 ± 0.1544
pull
Entries 94
Mean −23.15
Std Dev 27.53
pull1D
Entries 94
Mean 0.05269
Std Dev 1.27

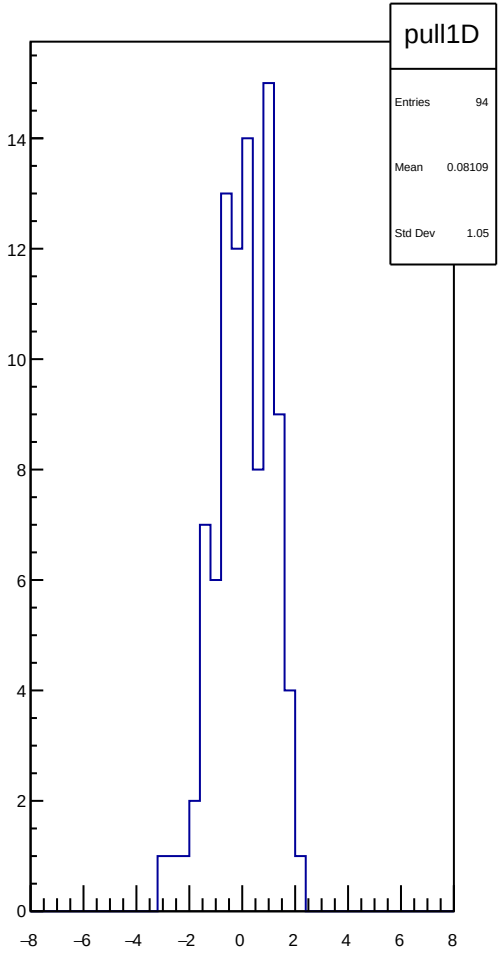

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 108.1 / 93
p0 −1.488 ± 0.1288
pull
Entries 94
Mean 139.3
Std Dev 0
pull1D
Entries 94
Mean −0.0862
Std Dev 1.069

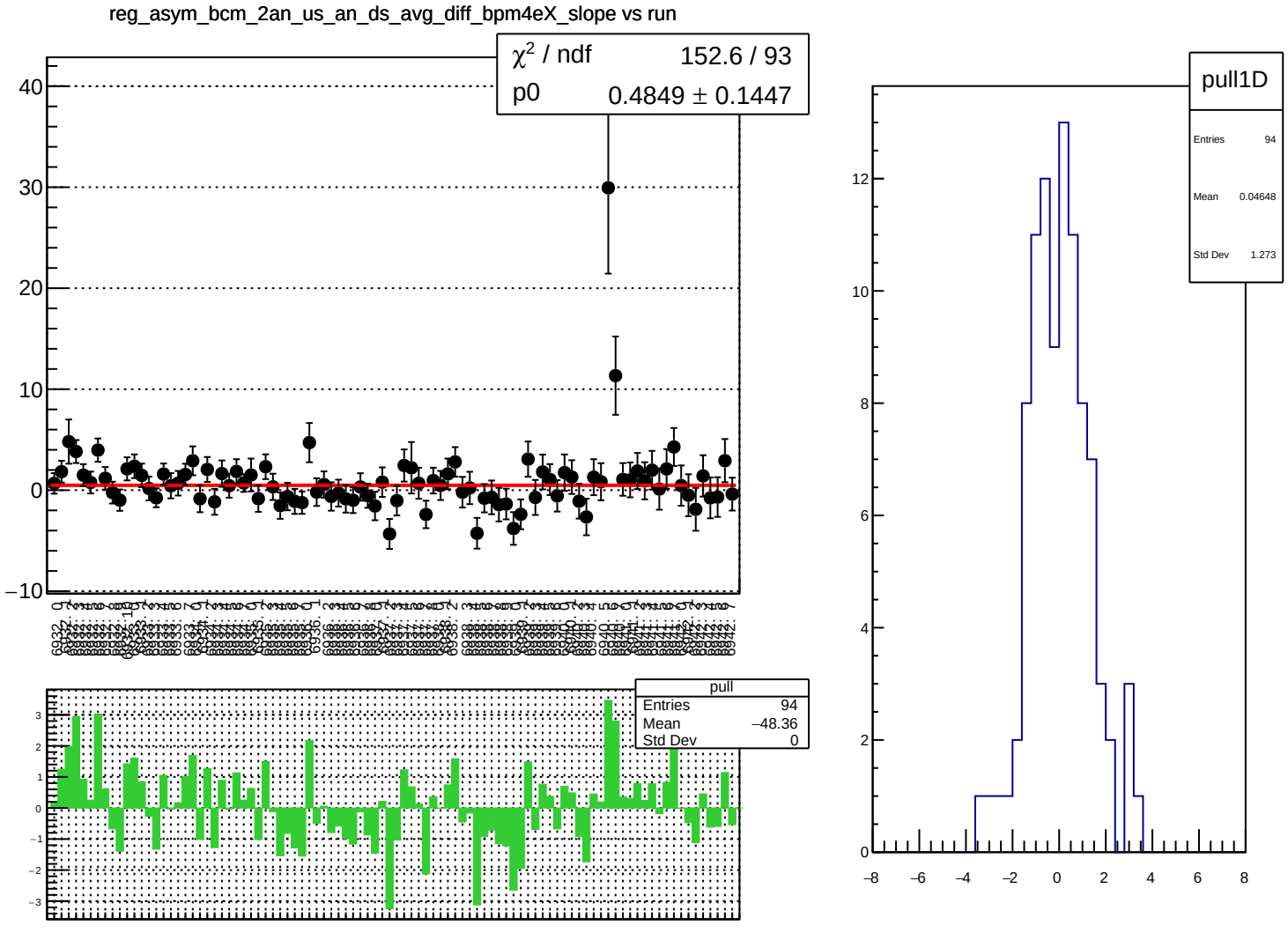

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 138.8 / 93
p0 −0.05337 ± 0.005204
pull
Entries 94
Mean 275
Std Dev 0

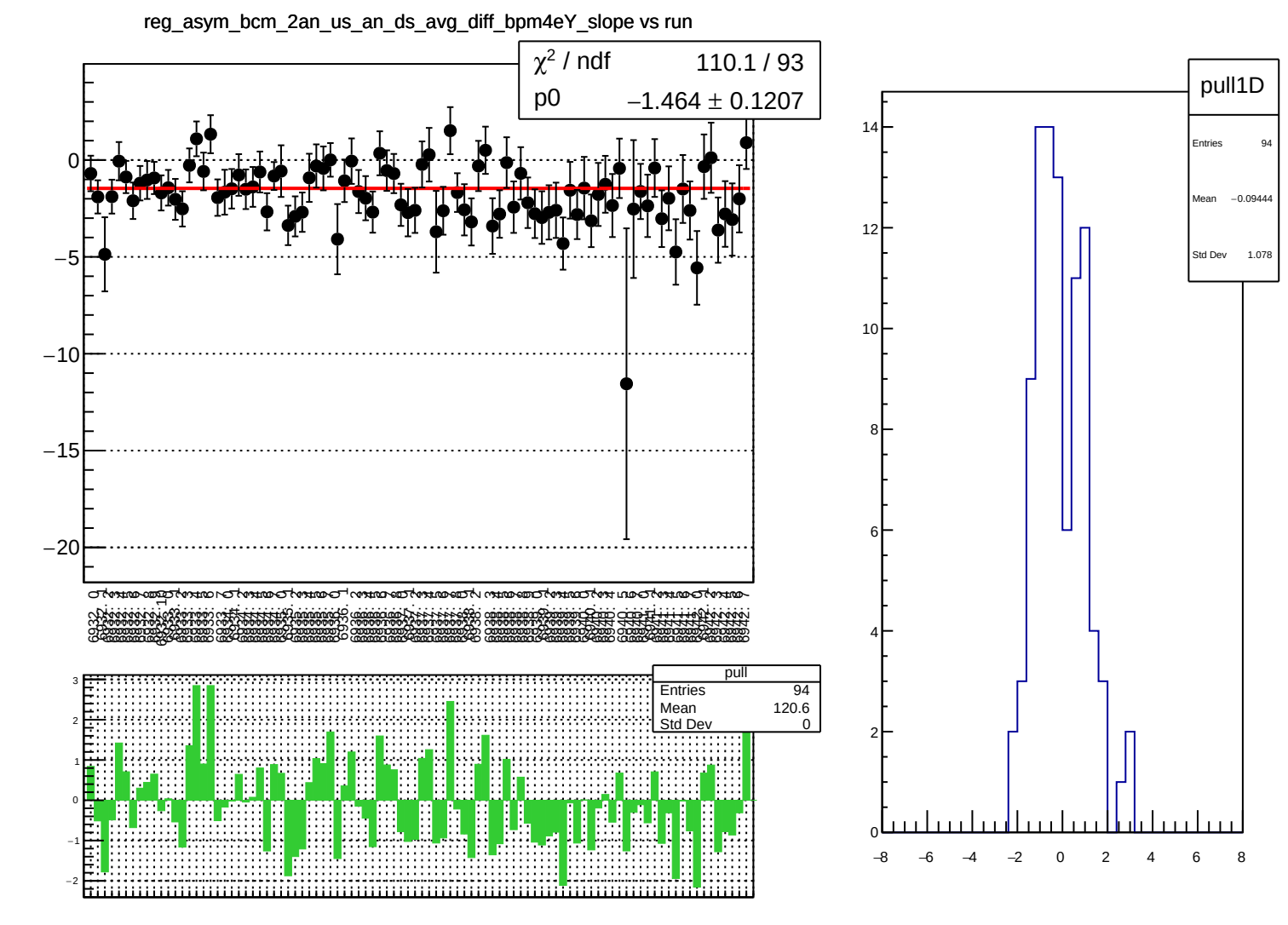

pull1D
Entries 94
Mean −0.03574
Std Dev 1.214

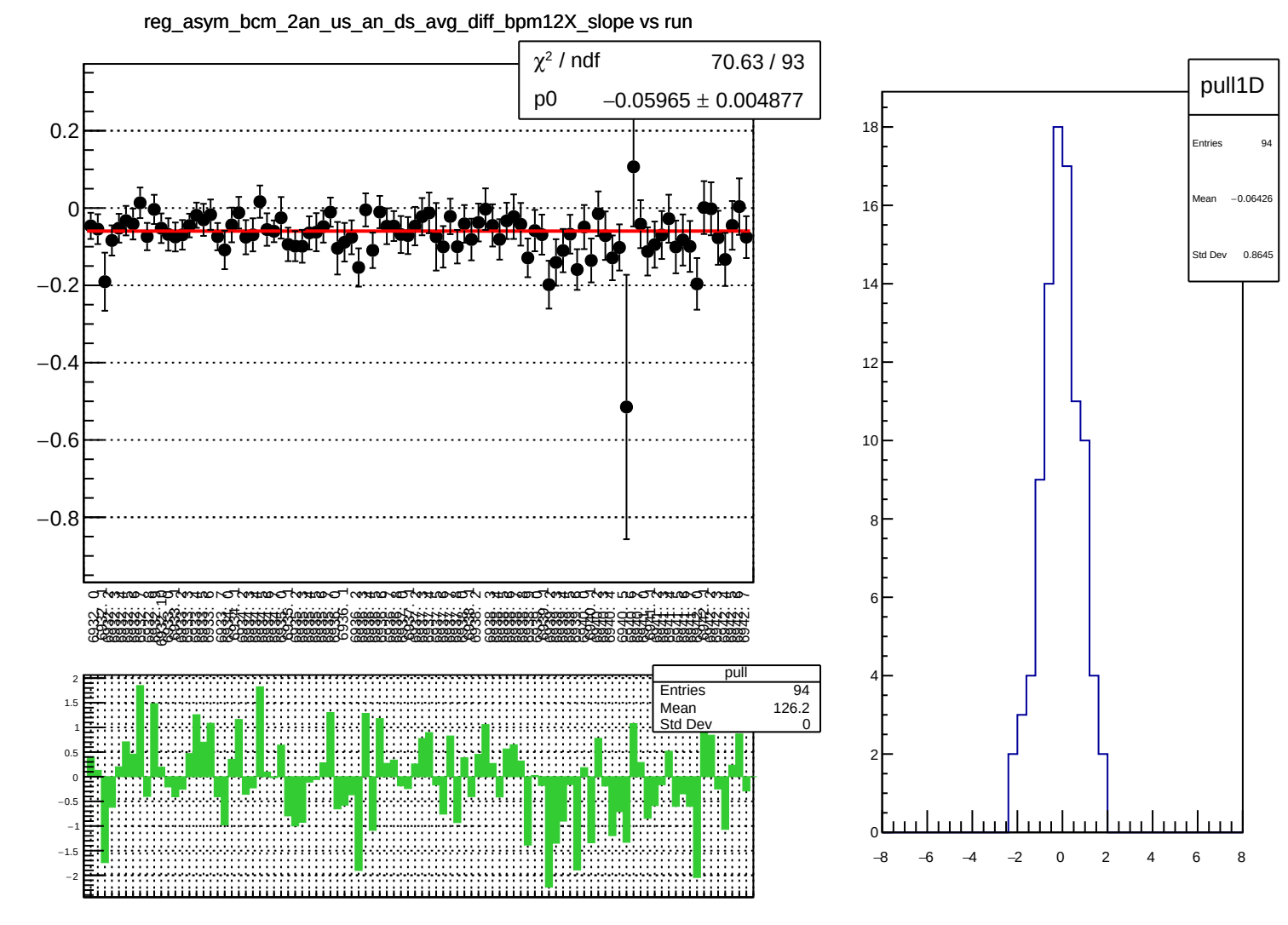

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 147.6 / 93
p0 −0.8202 ± 0.1561
pull
Entries 94
Mean −19.61
Std Dev 38.55
pull1D
Entries 94
Mean −0.053
Std Dev 1.252

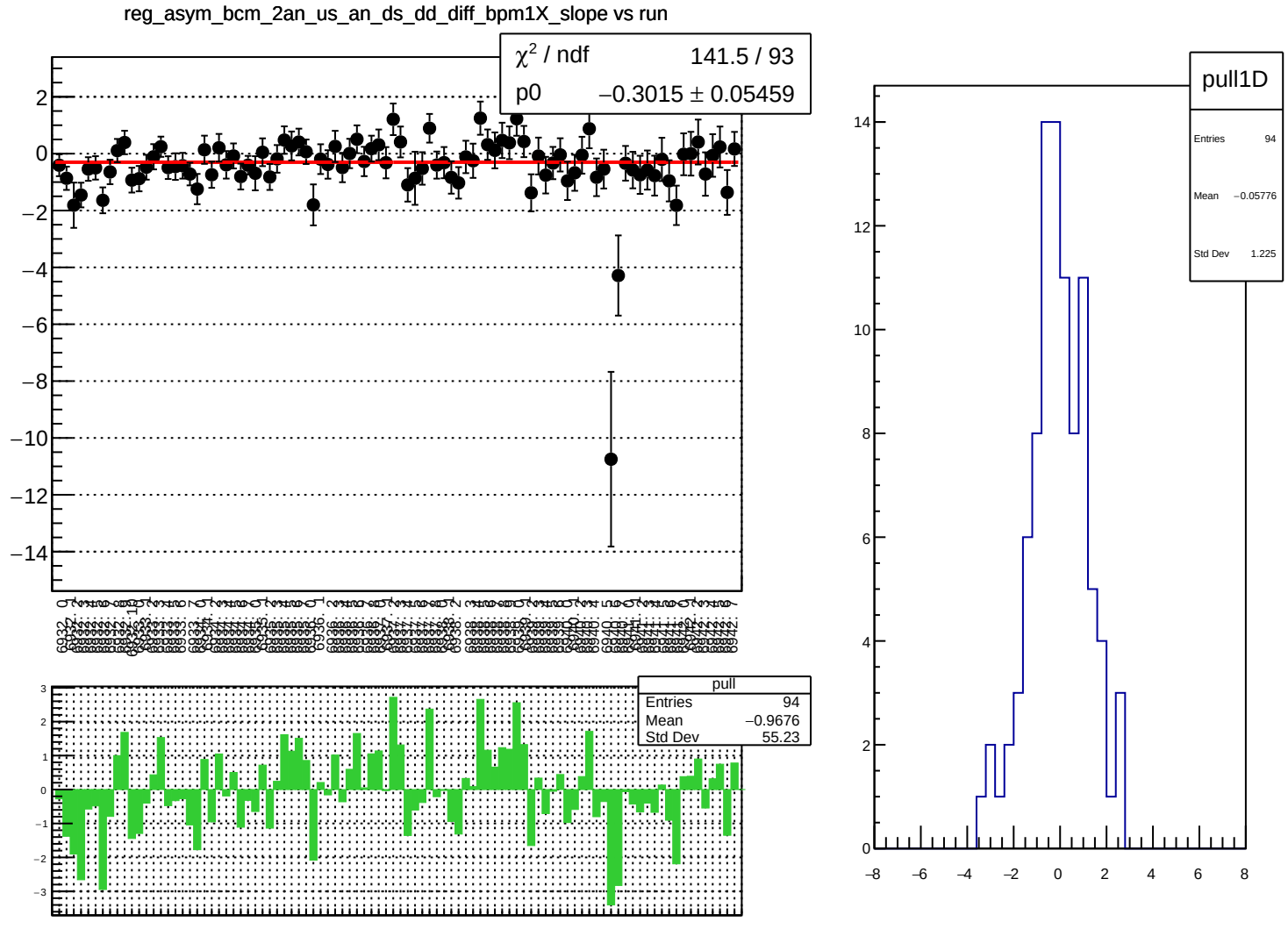

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.3 / 93
p0 1.043 ± 0.1047
pull
Entries 94
Mean 149.3
Std Dev 0

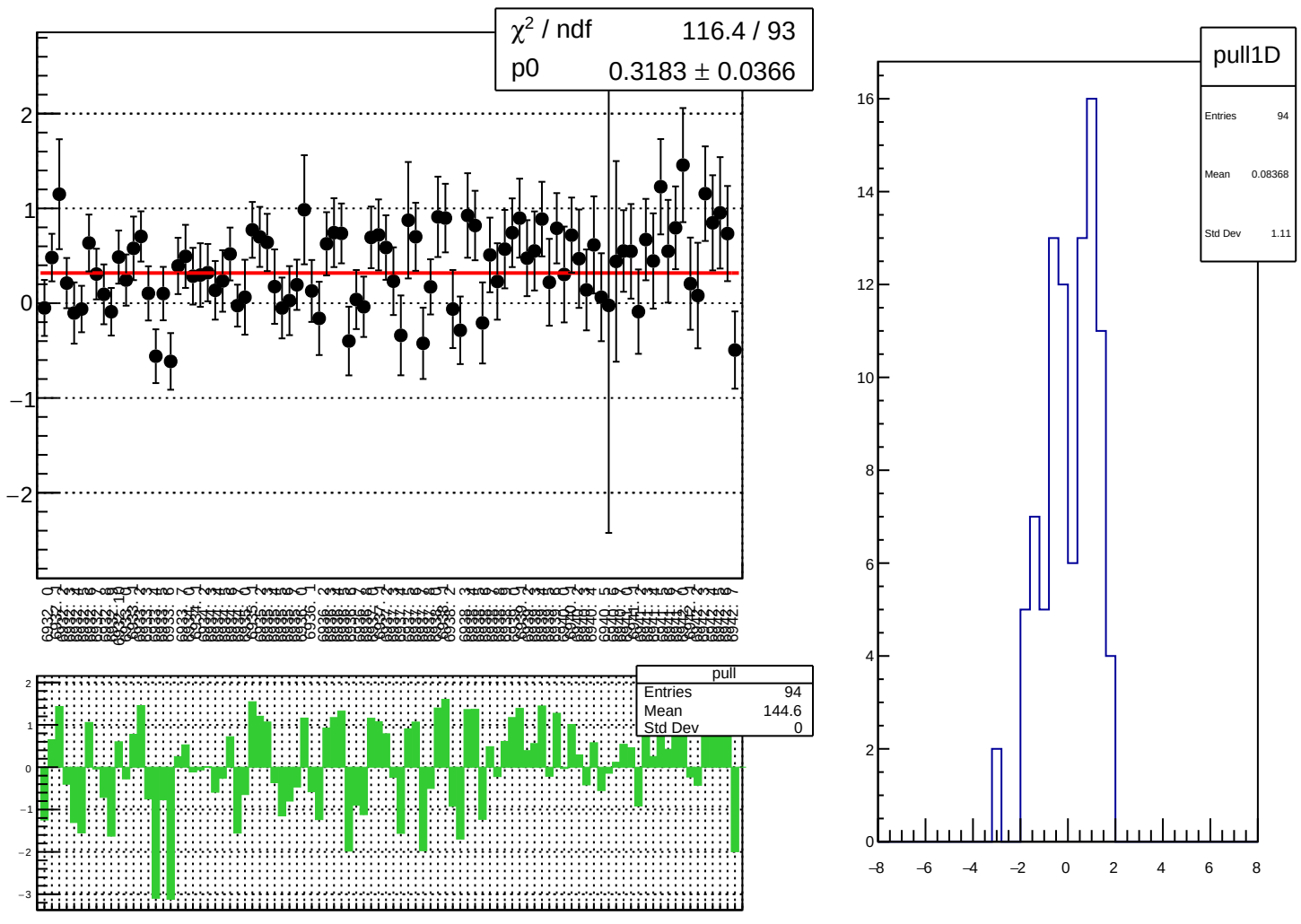

pull1D
Entries 94
Mean 0.08109
Std Dev 1.05

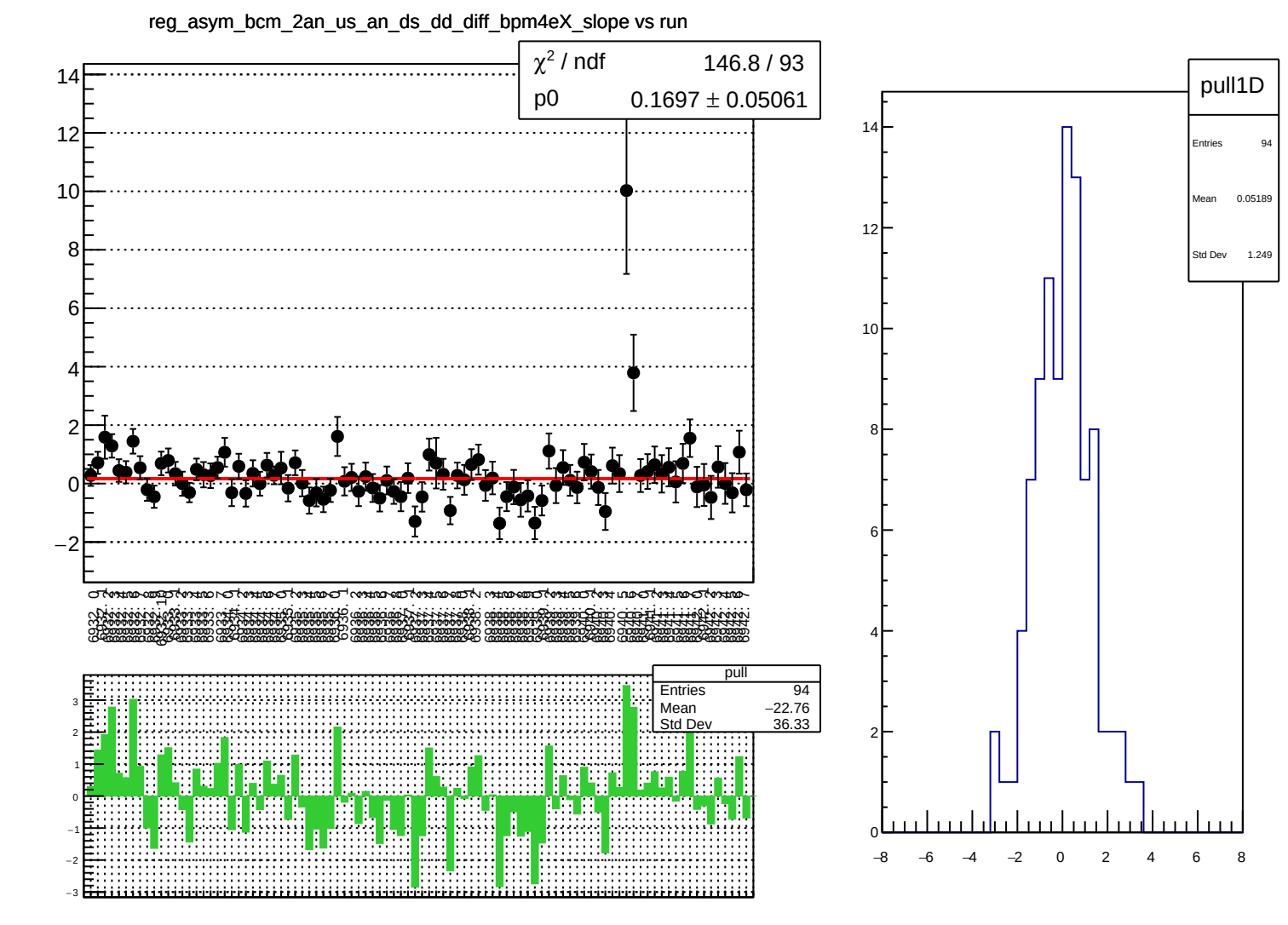

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.6 / 93
p0 0.4849 ± 0.1447
pull
Entries 94
Mean −48.36
Std Dev 0
pull1D
Entries 94
Mean 0.04648
Std Dev 1.273

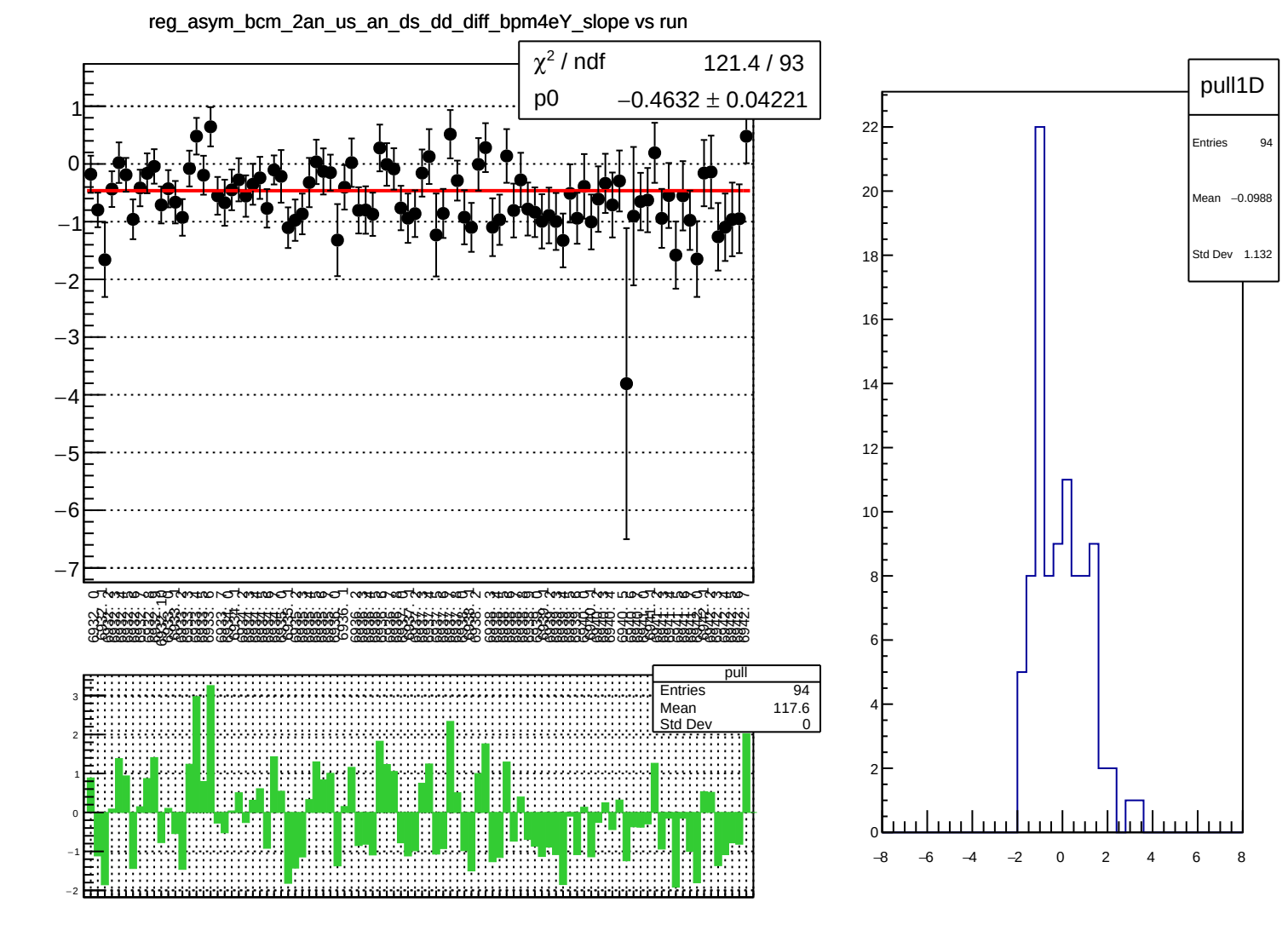

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 110.1 / 93
p0 −1.464 ± 0.1207
pull
Entries 94
Mean 120.6
Std Dev 0
pull1D
Entries 94
Mean −0.09444
Std Dev 1.078

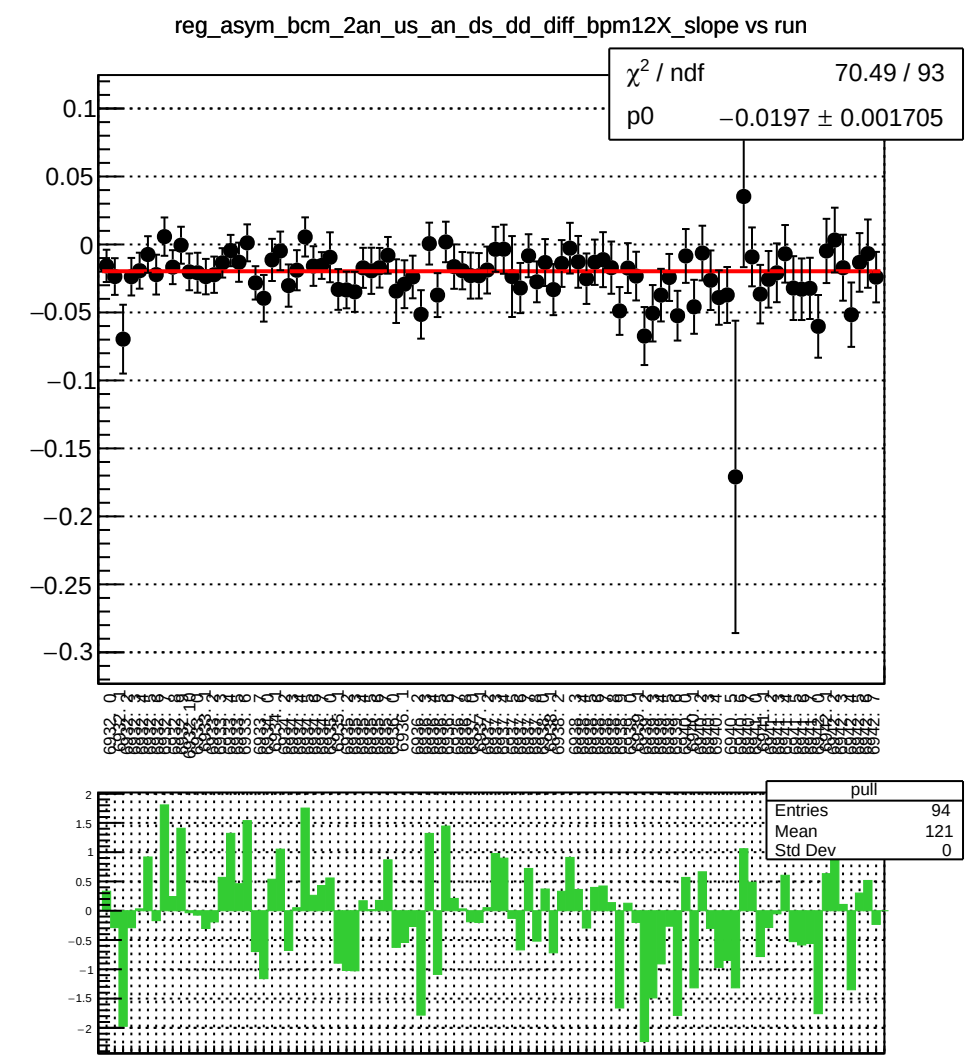

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 70.63 / 93
p0 −0.05965 ± 0.004877
pull
Entries 94
Mean 126.2
Std Dev 0
pull1D
Entries 94
Mean −0.06426
Std Dev 0.8645

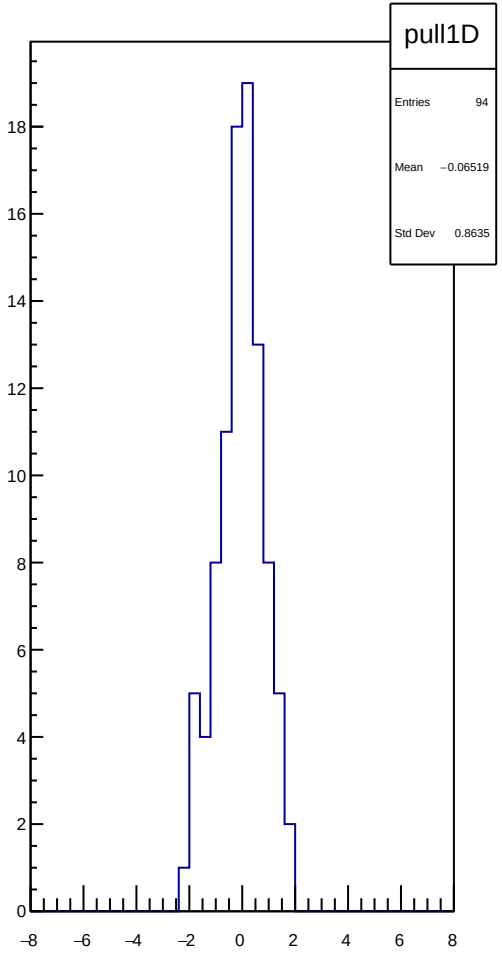

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 141.5 / 93
p0 −0.3015 ± 0.05459
pull
Entries 94
Mean −0.9676
Std Dev 55.23
pull1D
Entries 94
Mean −0.05776
Std Dev 1.225

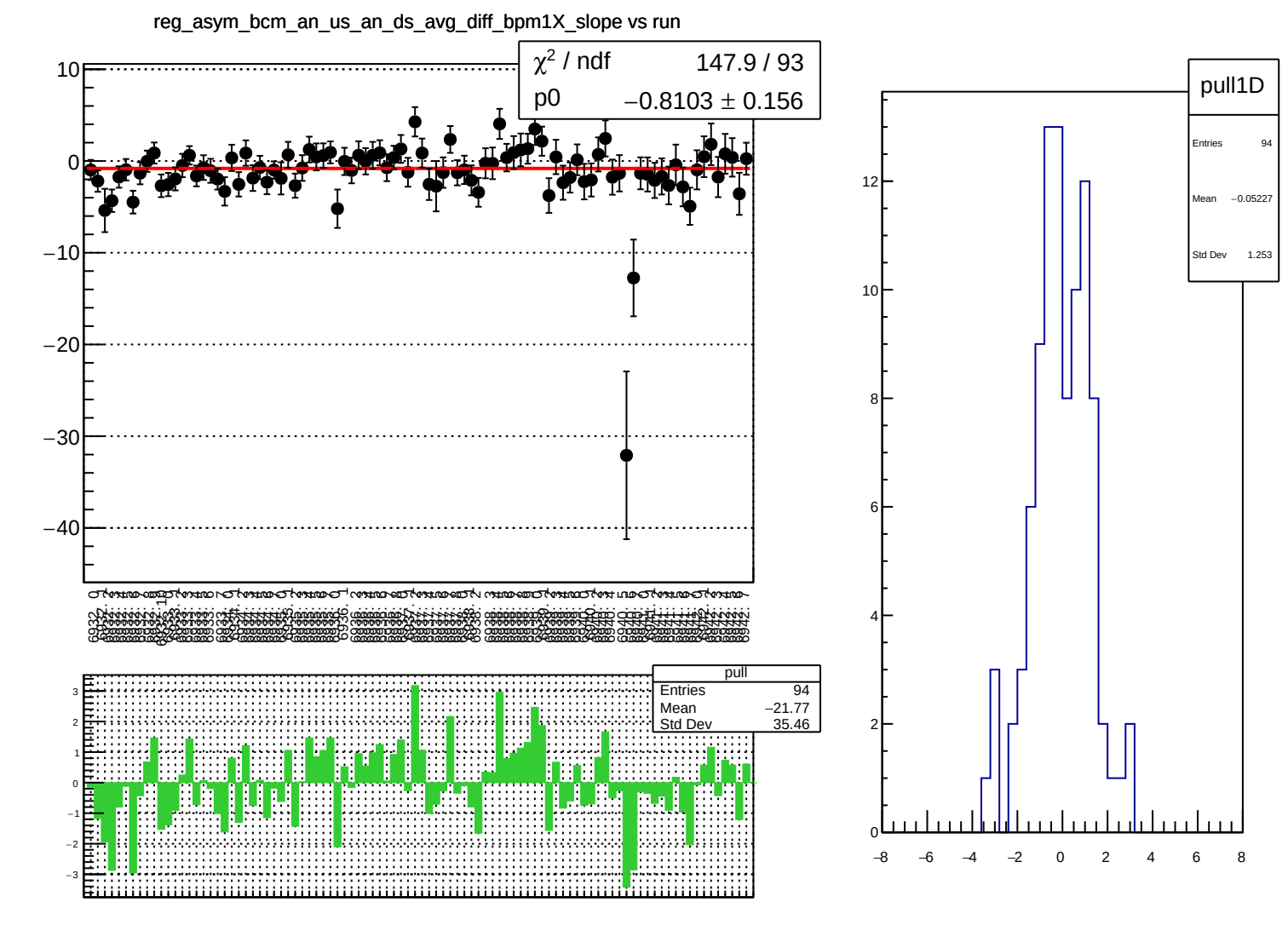

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 116.4 / 93
p0 0.3183 ± 0.0366
pull
Entries 94
Mean 144.6
Std Dev 0
pull1D
Entries 94
Mean 0.08368
Std Dev 1.11

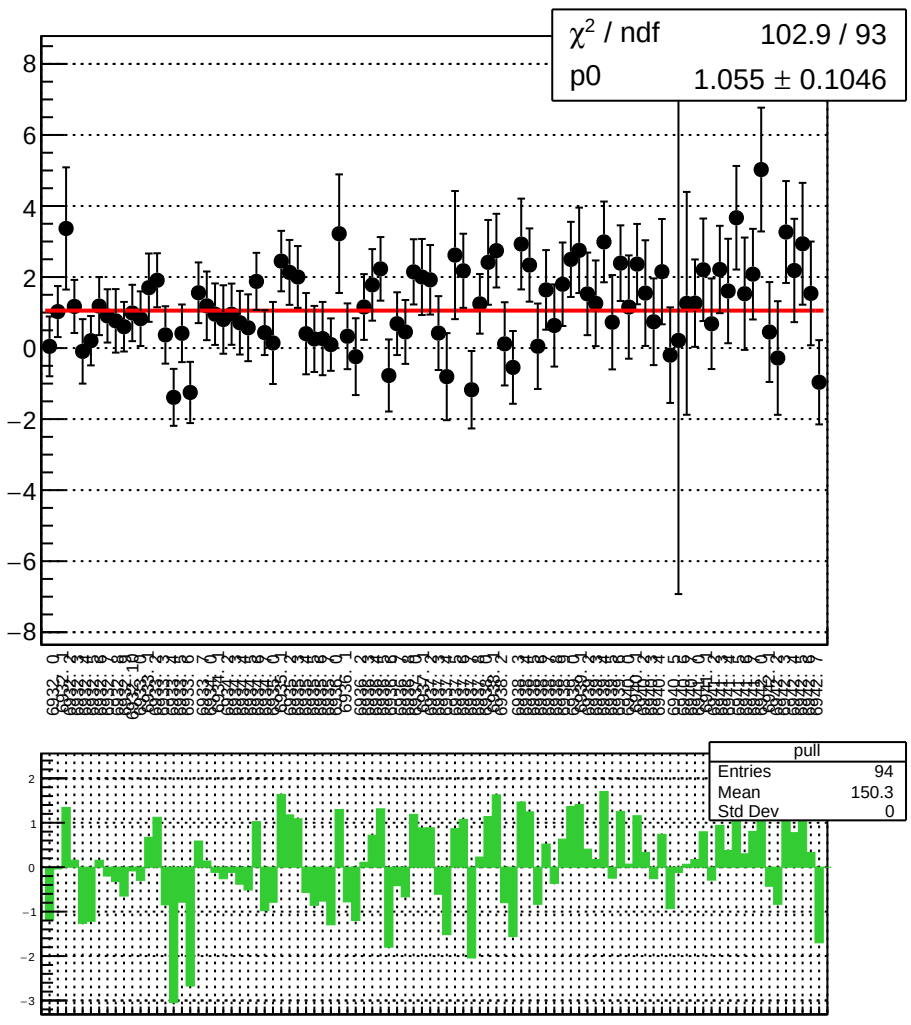

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 146.8 / 93
p0 0.1697 ± 0.05061
pull
Entries 94
Mean −22.76
Std Dev 36.33
pull1D
Entries 94
Mean 0.05189
Std Dev 1.249

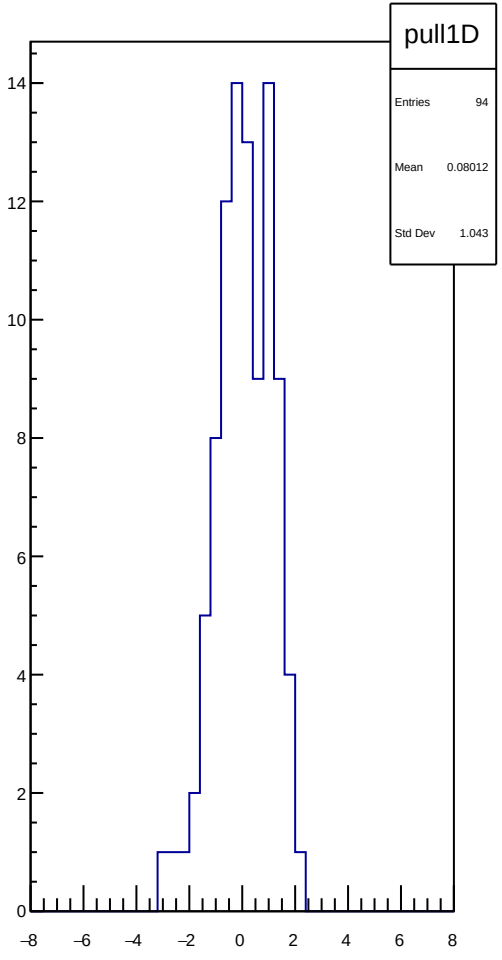

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 121.4 / 93
p0 −0.4632 ± 0.04221
pull
Entries 94
Mean 117.6
Std Dev 0
pull1D
Entries 94
Mean −0.0988
Std Dev 1.132

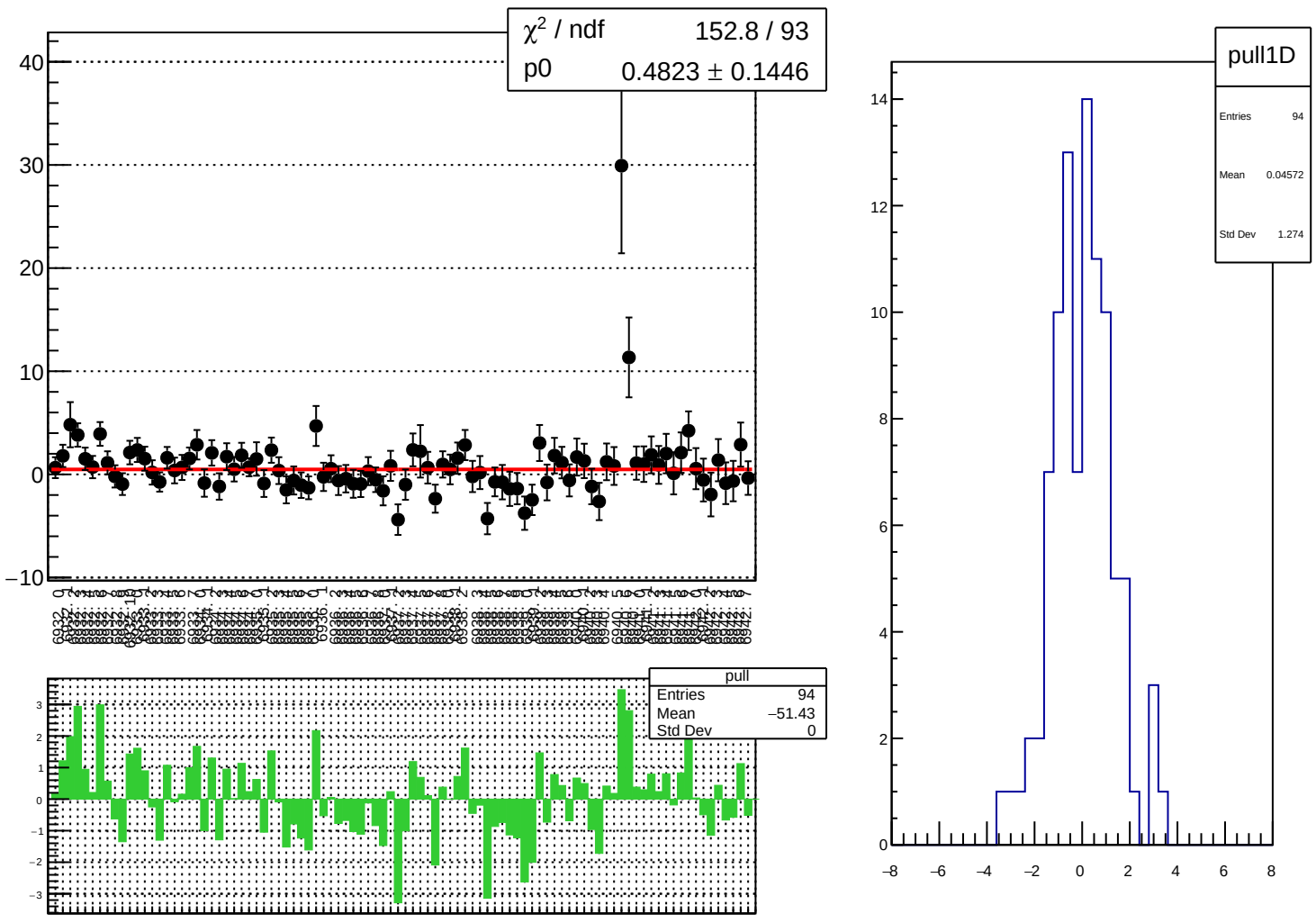

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 70.49 / 93
p0 −0.0197 ± 0.001705
pull
Entries 94
Mean 121
Std Dev 0

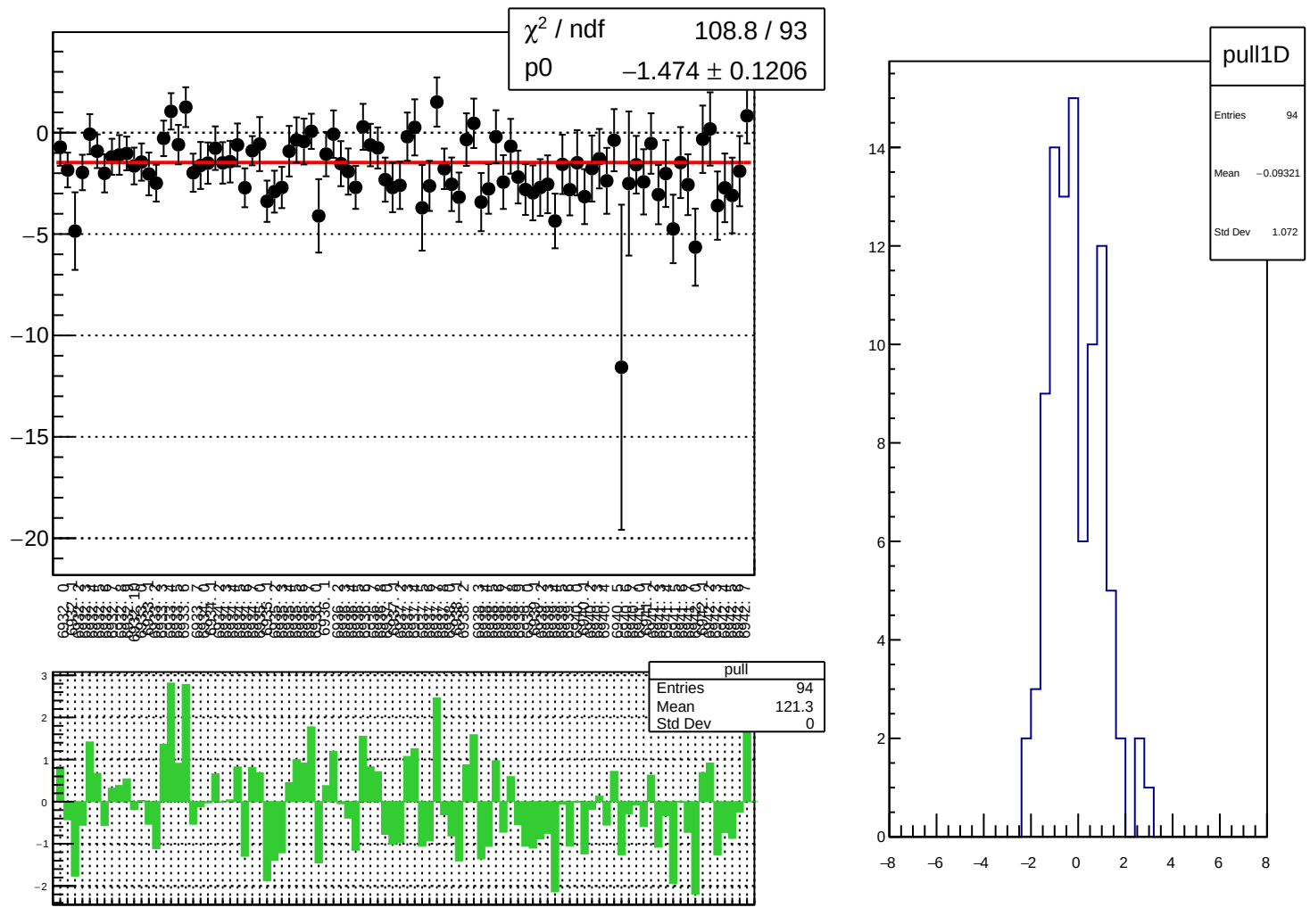

pull1D
Entries 94
Mean −0.06519
Std Dev 0.8635

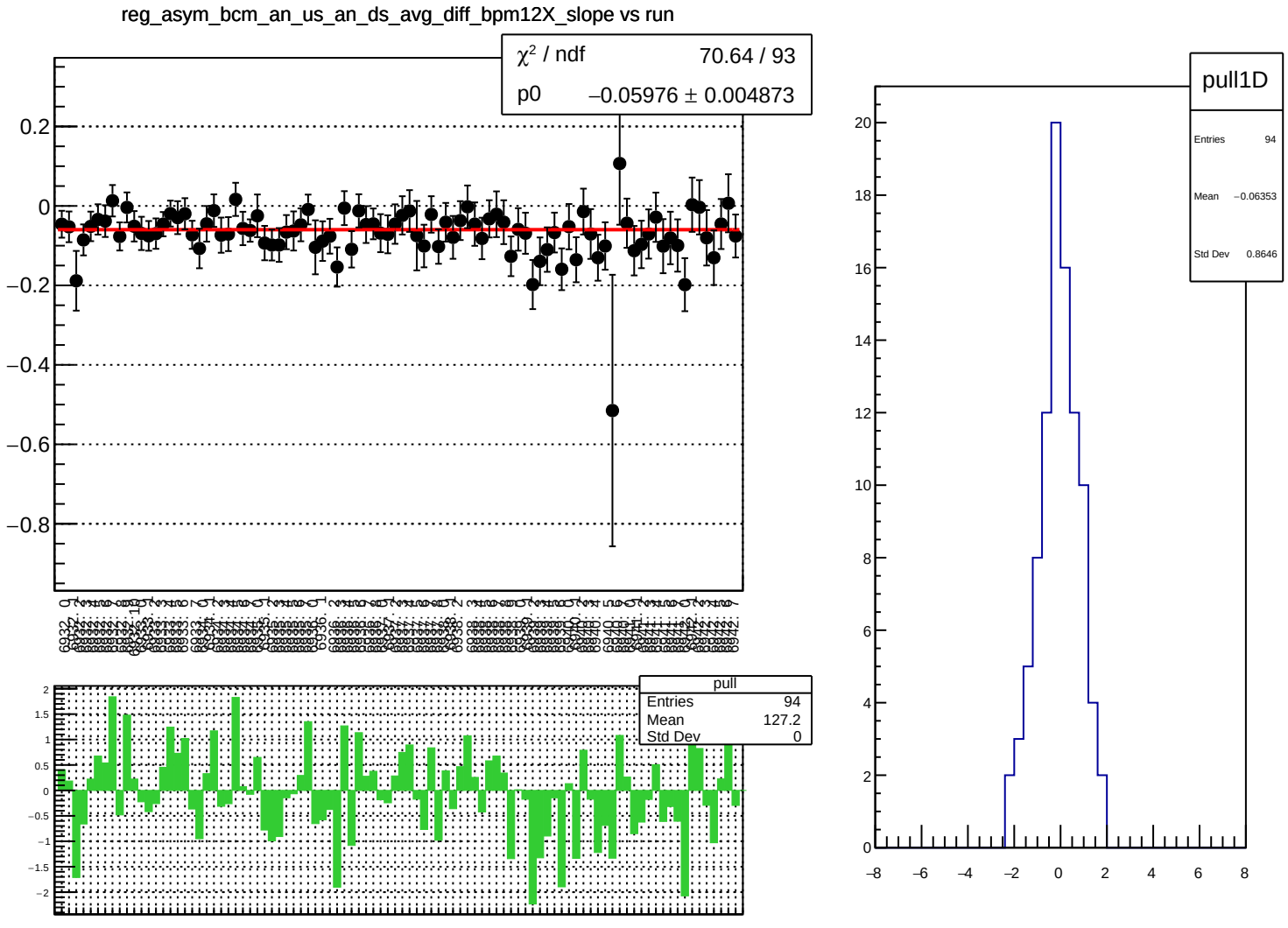

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 147.9 / 93
p0 −0.8103 ± 0.156
pull
Entries 94
Mean −21.77
Std Dev 35.46
pull1D
Entries 94
Mean −0.05227
Std Dev 1.253

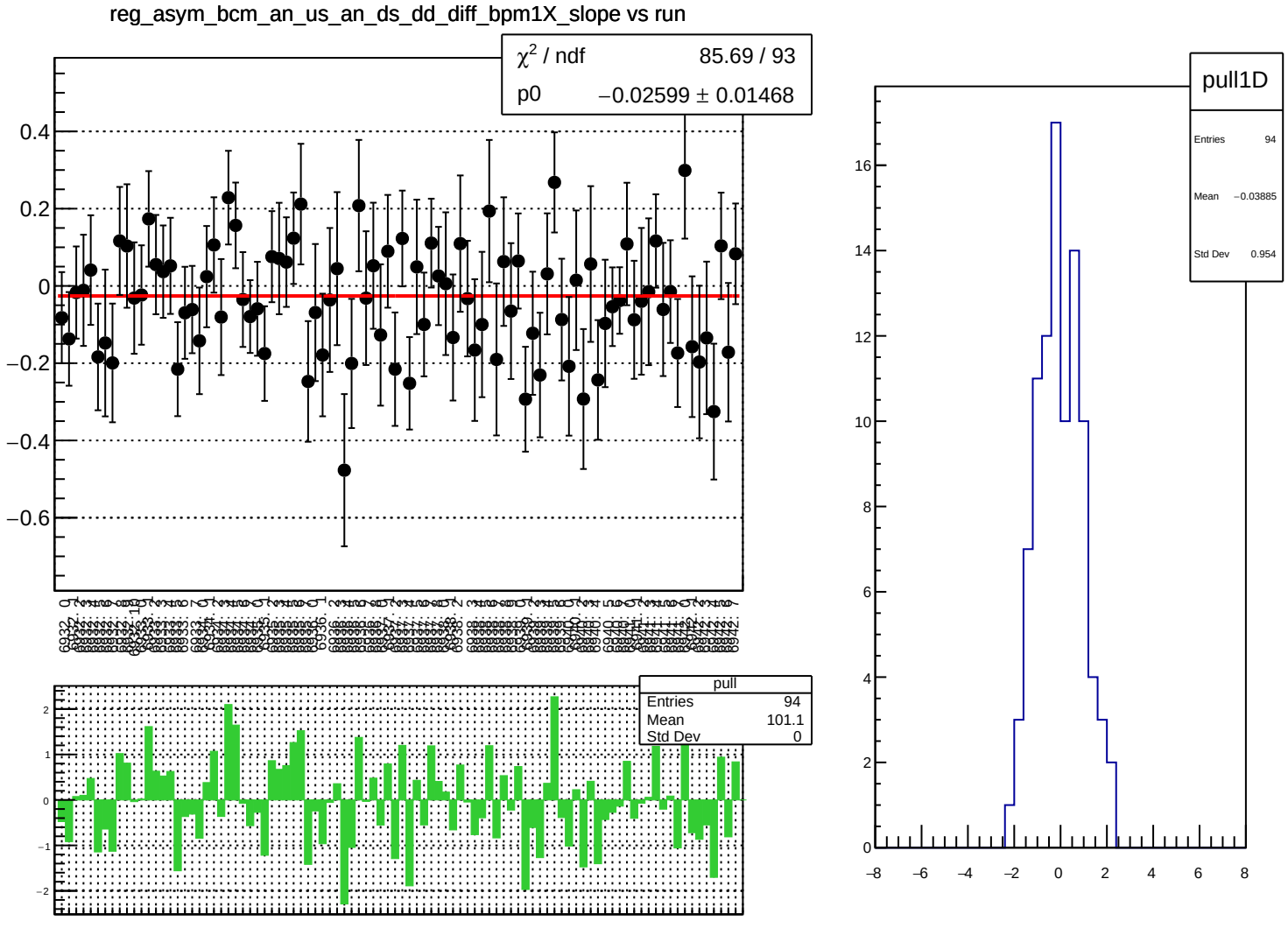

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 102.9 / 93
p0 1.055 ± 0.1046
pull
Entries 94
Mean 150.3
Std Dev 0

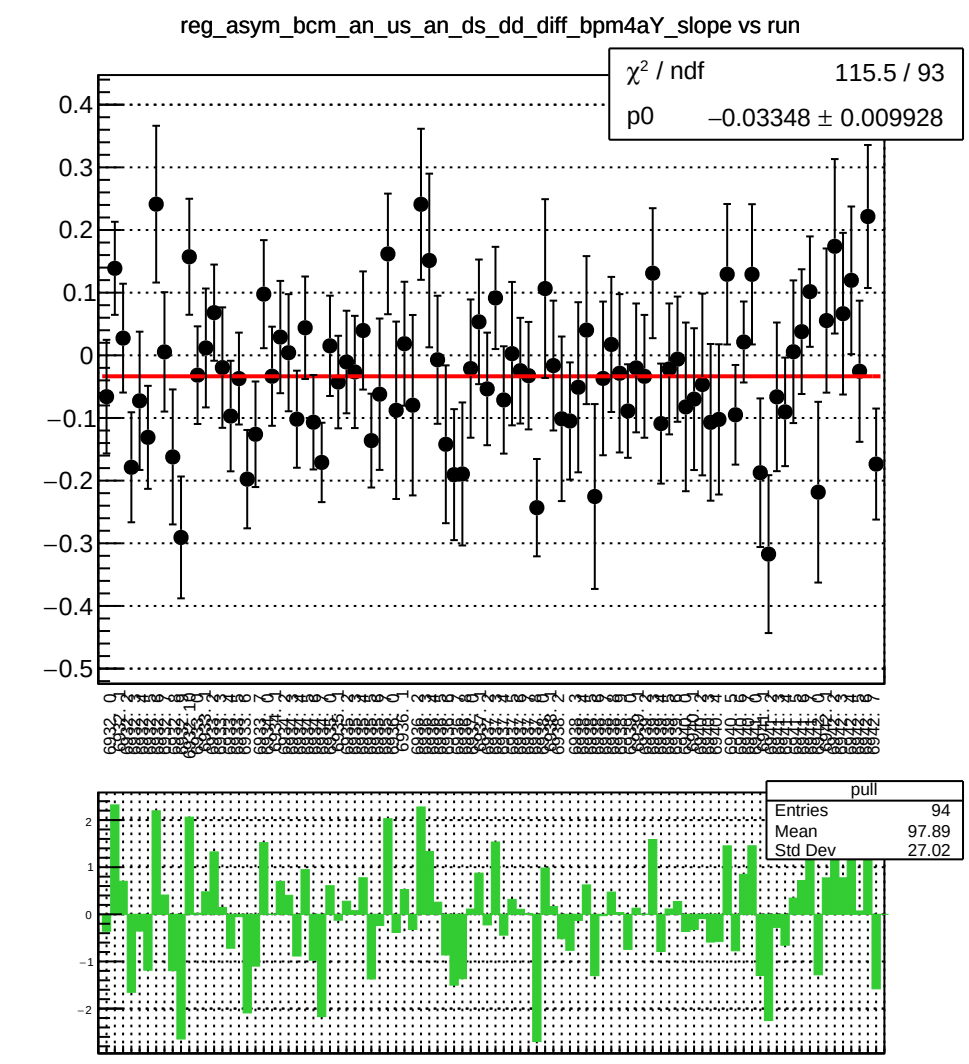

pull1D
Entries 94
Mean 0.08012
Std Dev 1.043

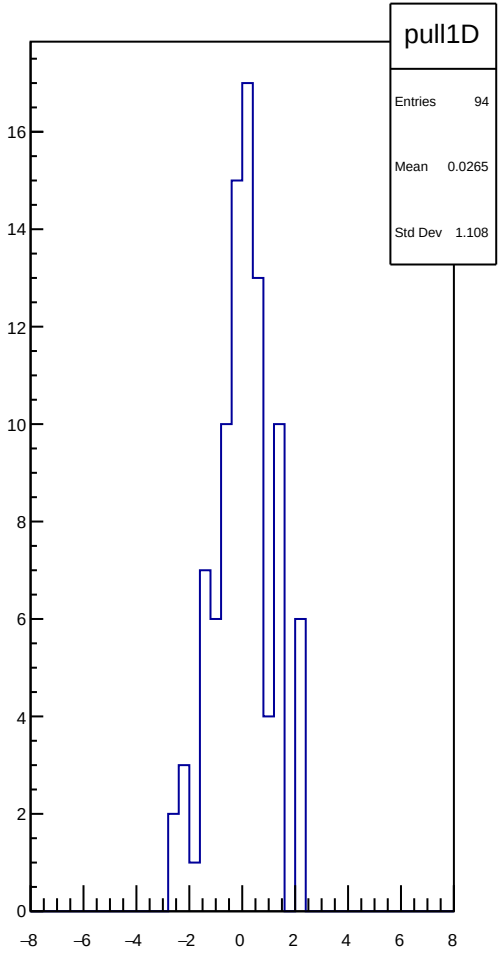

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 152.8 / 93
p0 0.4823 ± 0.1446
pull
Entries 94
Mean −51.43
Std Dev 0
pull1D
Entries 94
Mean 0.04572
Std Dev 1.274

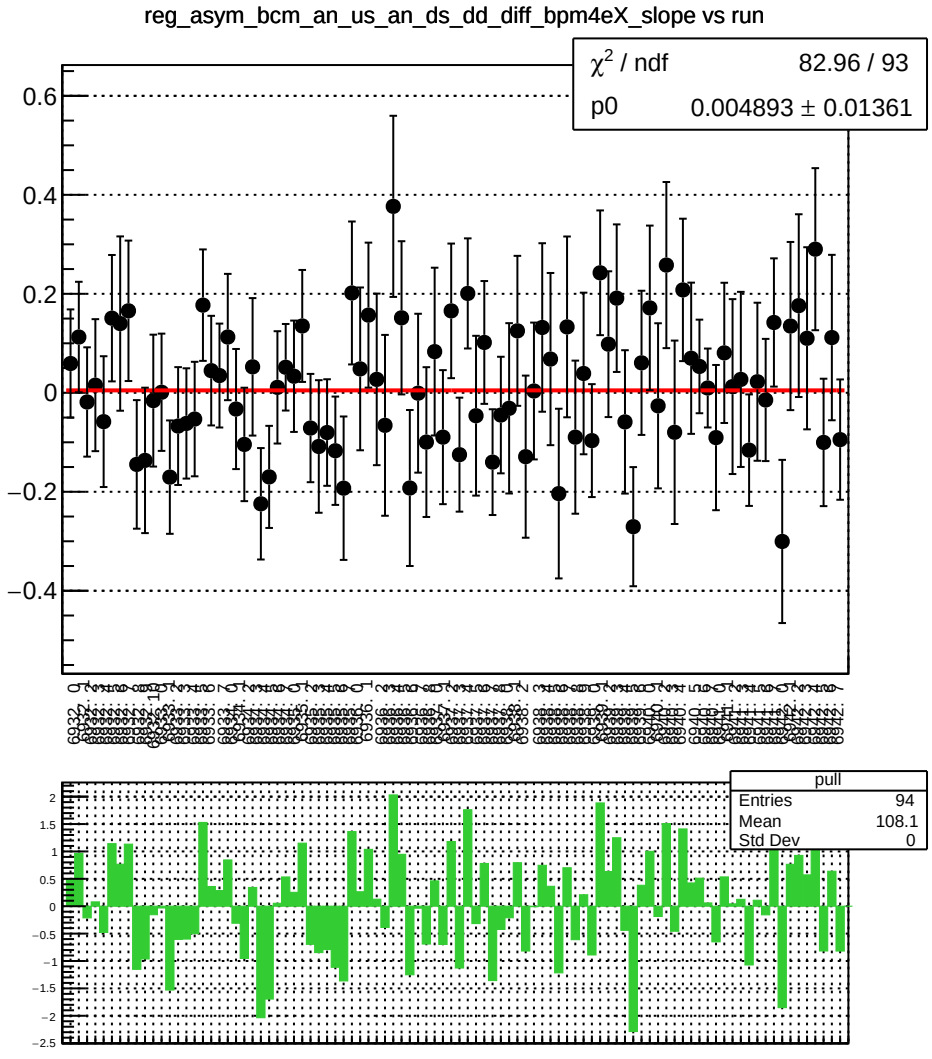

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.8 / 93
p0 −1.474 ± 0.1206
pull
Entries 94
Mean 121.3
Std Dev 0
pull1D
Entries 94
Mean −0.09321
Std Dev 1.072

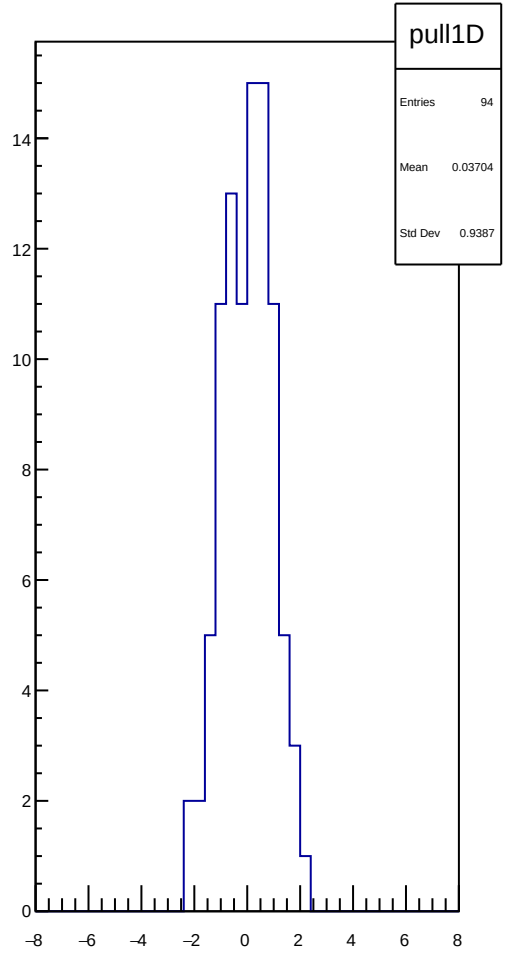

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 70.64 / 93
p0 −0.05976 ± 0.004873
pull
Entries 94
Mean 127.2
Std Dev 0
pull1D
Entries 94
Mean −0.06353
Std Dev 0.8646

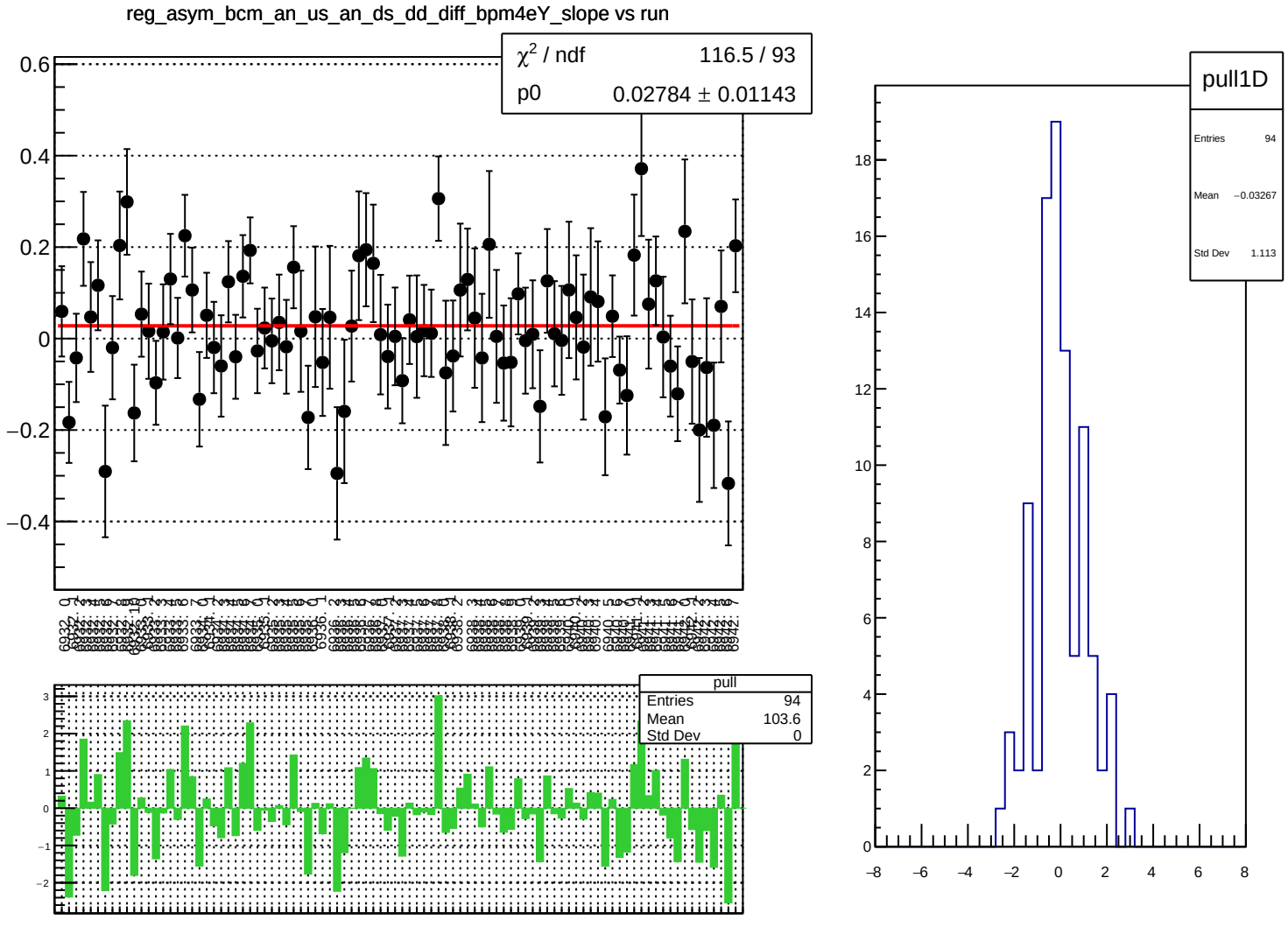

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 85.69 / 93
p0 −0.02599 ± 0.01468
pull
Entries 94
Mean 101.1
Std Dev 0
pull1D
Entries 94
Mean −0.03885
Std Dev 0.954

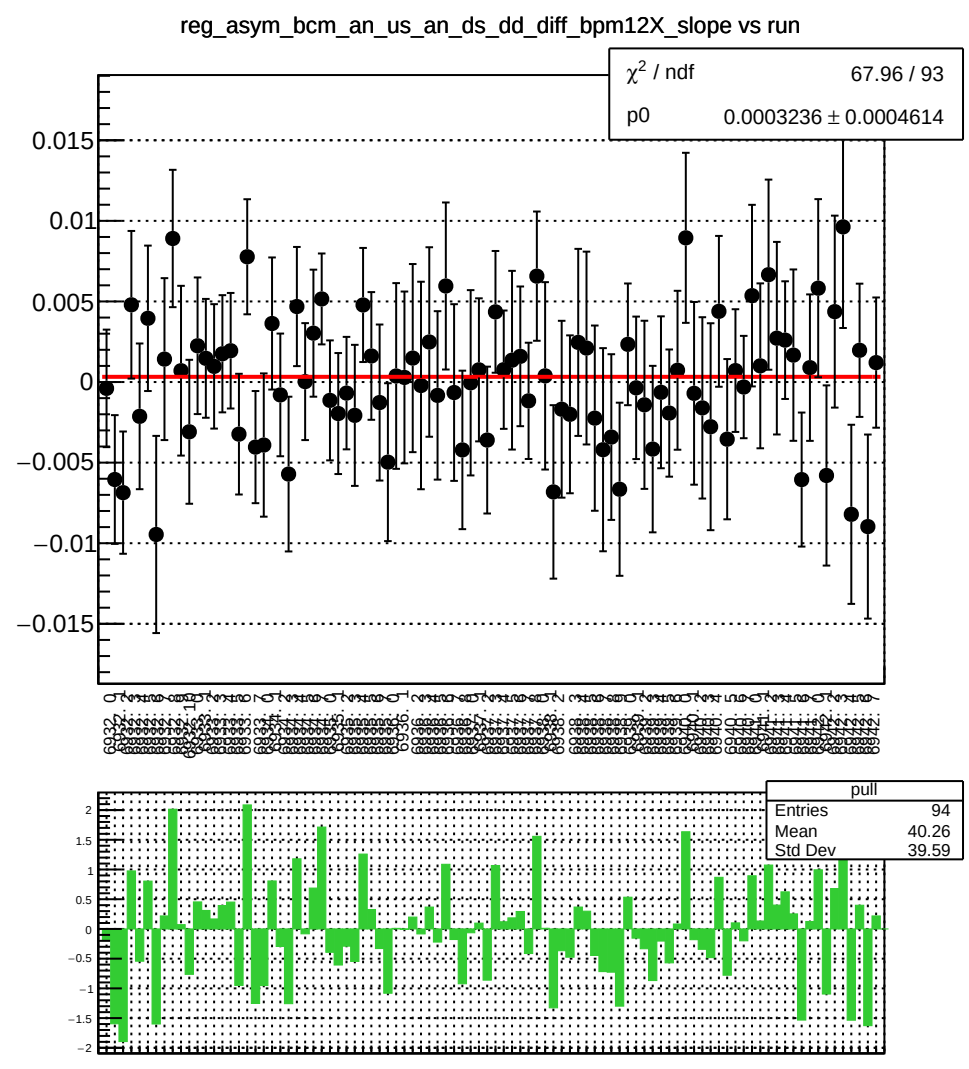

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 115.5 / 93
p0 −0.03348 ± 0.009928
pull
Entries 94
Mean 97.89
Std Dev 27.02

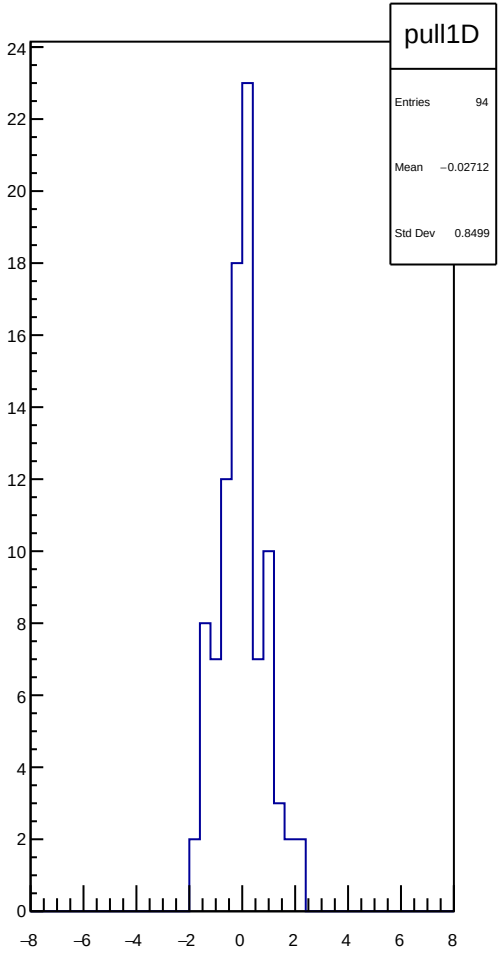

pull1D
Entries 94
Mean 0.0265
Std Dev 1.108

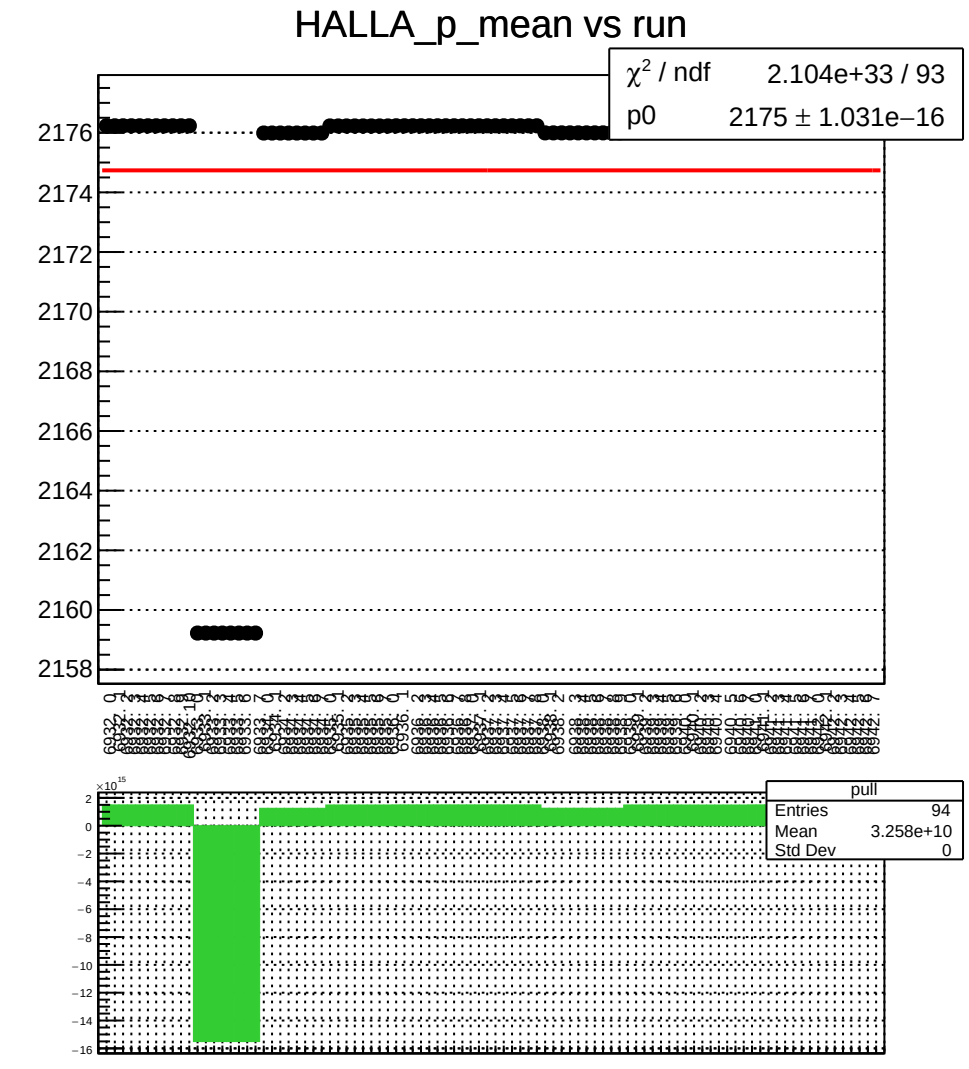

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.96 / 93
p0 0.004893 ± 0.01361
pull
Entries 94
Mean 108.1
Std Dev 0

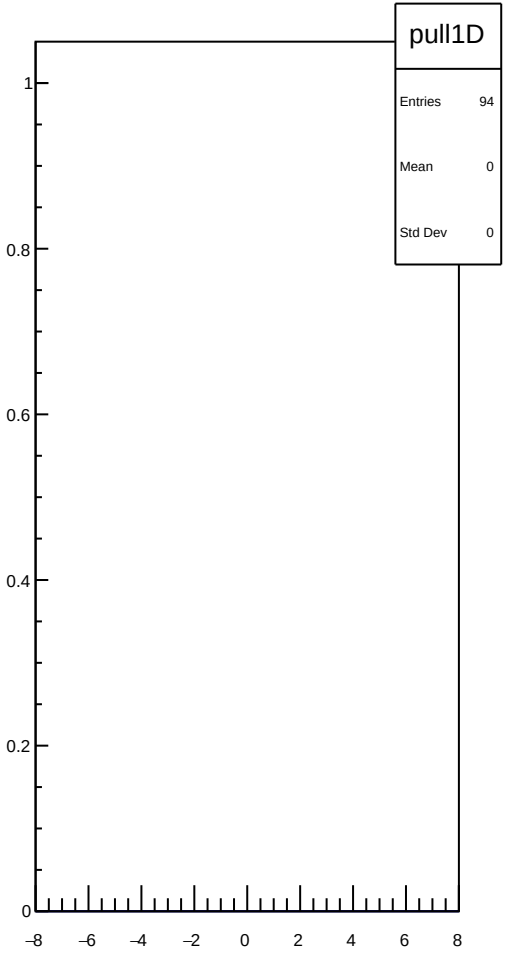

pull1D
Entries 94
Mean 0.03704
Std Dev 0.9387

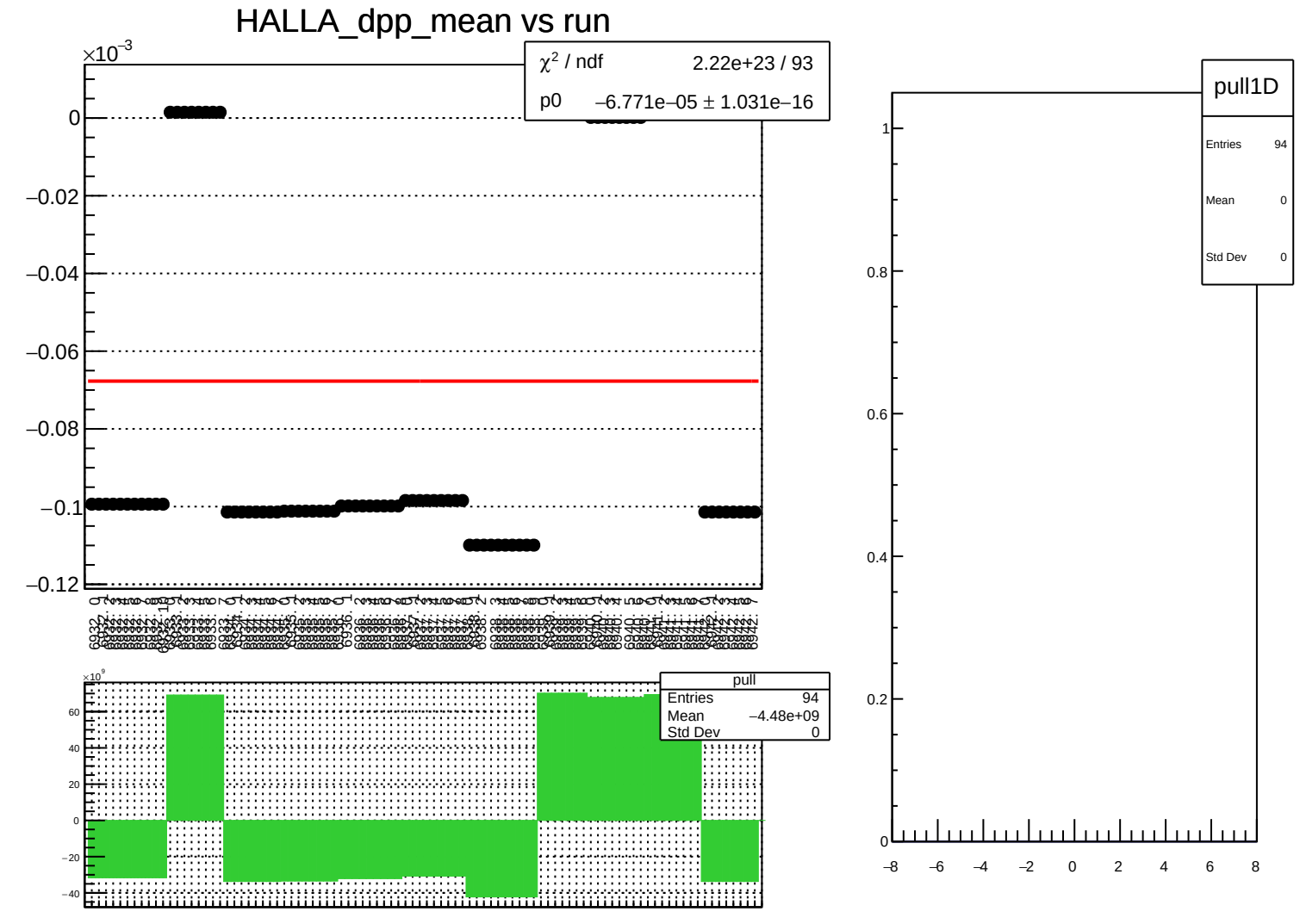

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 116.5 / 93
p0 0.02784 ± 0.01143
pull
Entries 94
Mean 103.6
Std Dev 0
pull1D
Entries 94
Mean −0.03267
Std Dev 1.113

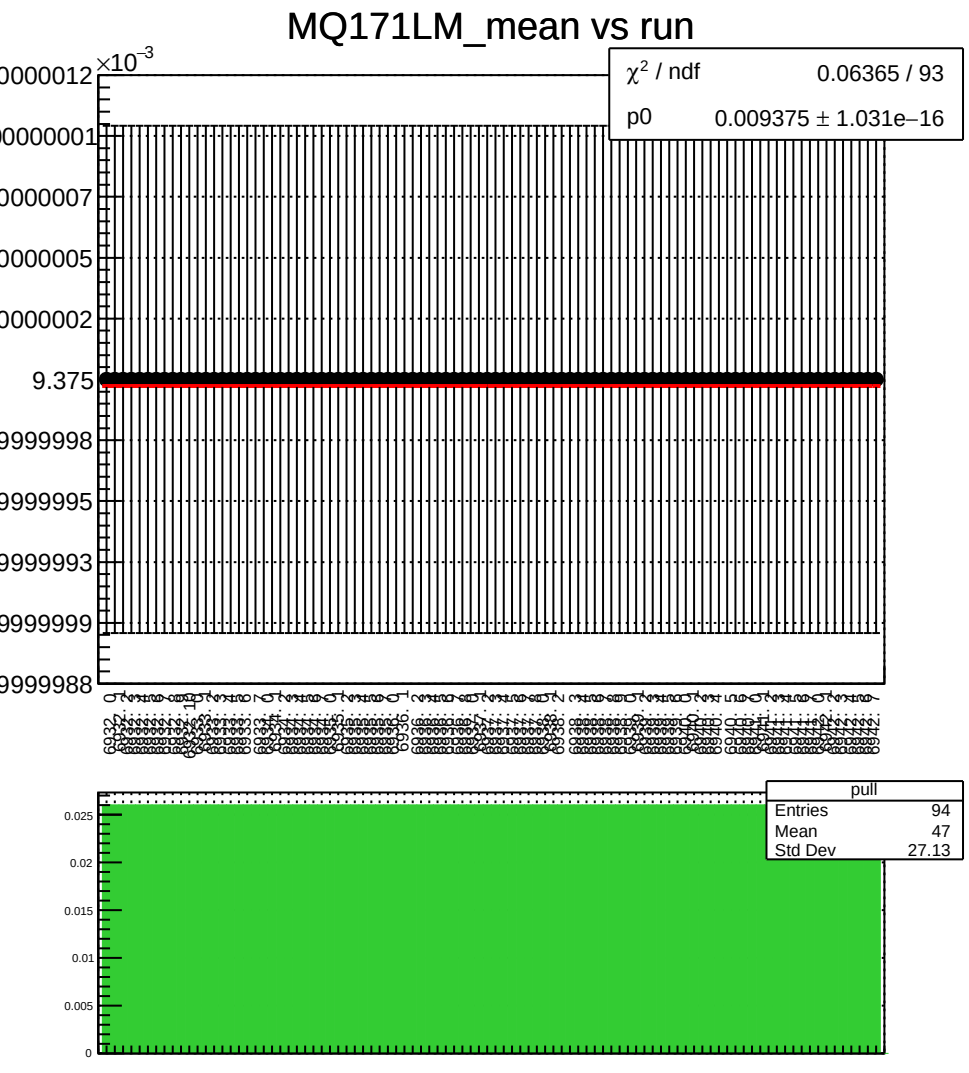

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 67.96 / 93
p0 0.0003236 ± 0.0004614
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 40.26
Std Dev 39.59
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

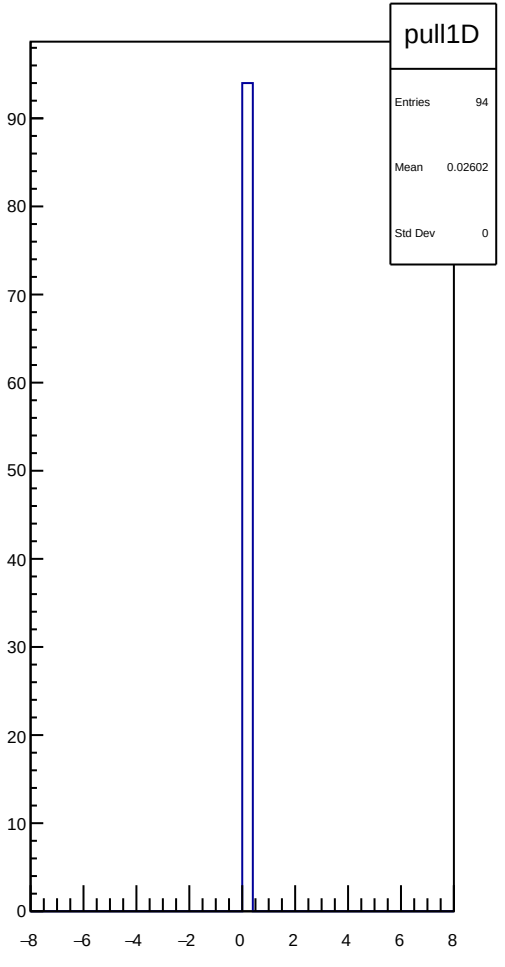

pull1D
Entries 94
Mean −0.02712
Std Dev 0.8499
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

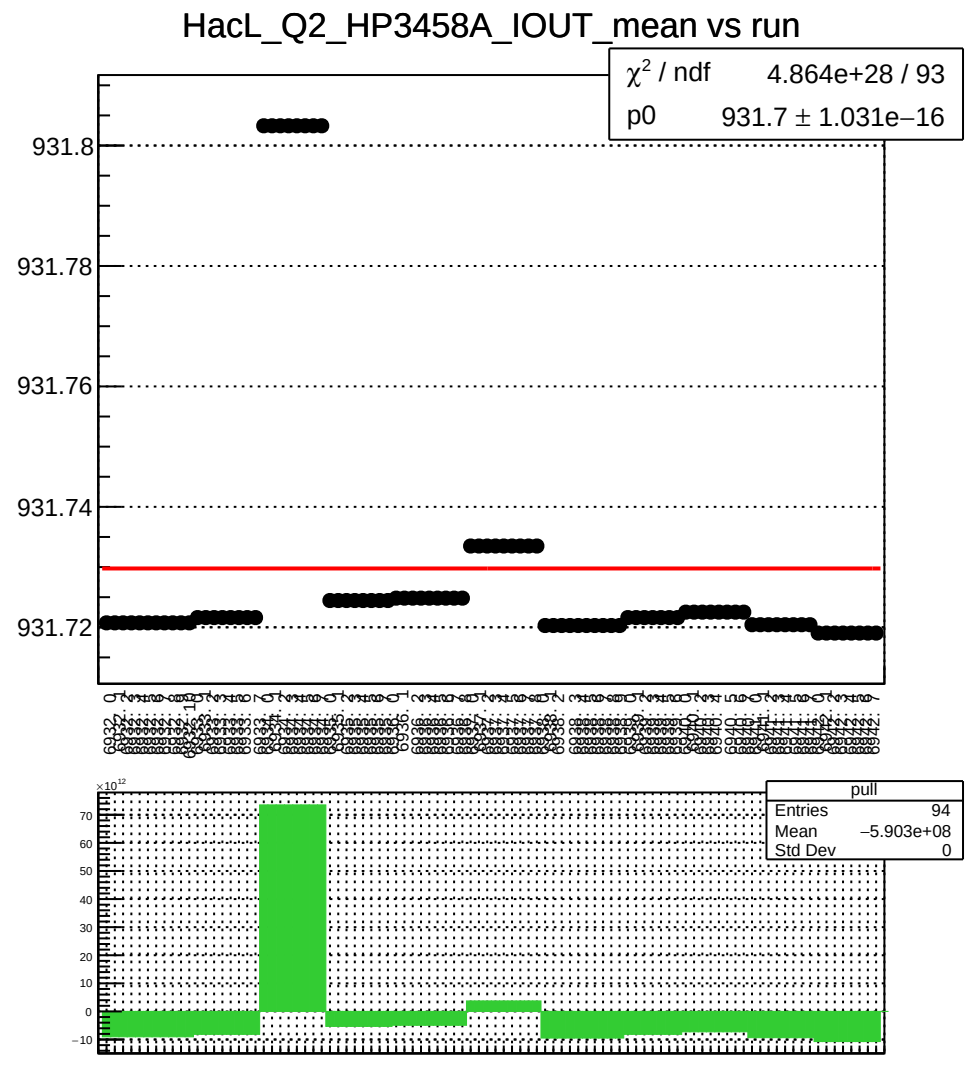

HALLA_p_mean vs run
χ² / ndf 2.104e+33 / 93
p0 2175 ± 1.031e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 94
Mean 3.258e+10
Std Dev 0
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
−16

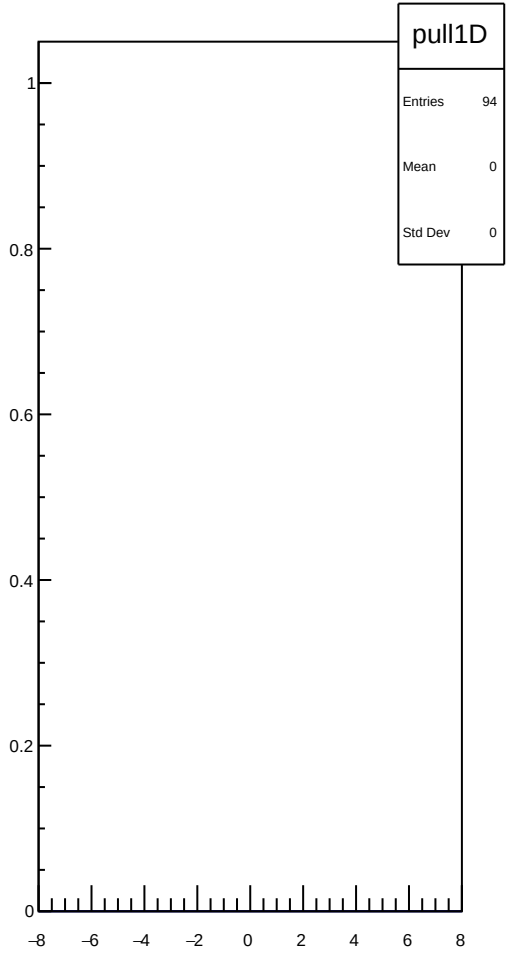

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

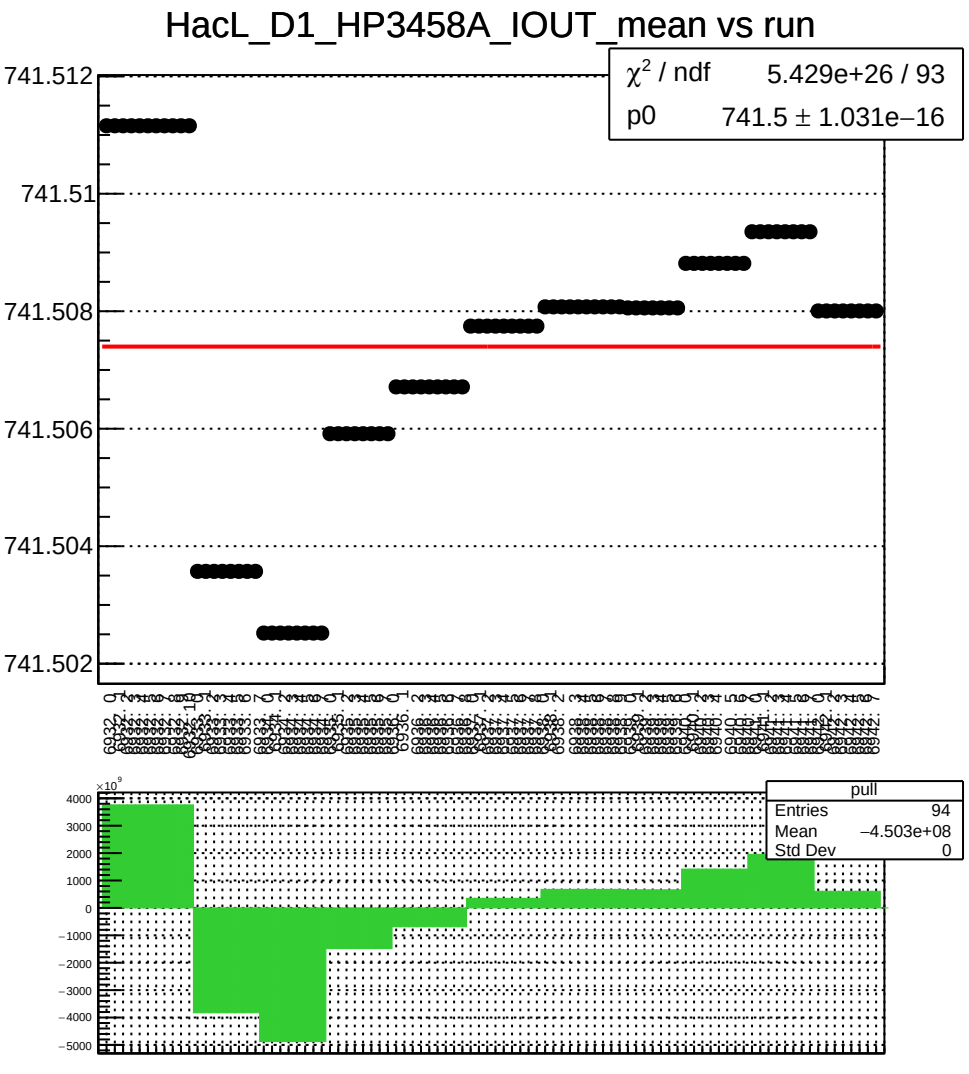

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.22e+23 / 93
p0 −6.771e−05 ± 1.031e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
pull
Entries 94
Mean −4.48e+09
Std Dev 0
60
40
20
0
−20
−40
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

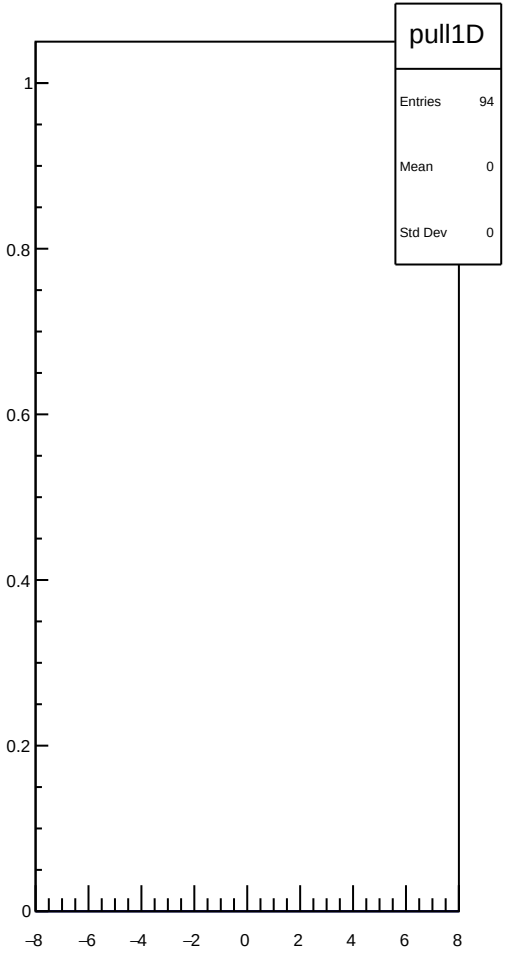

MQ171LM_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

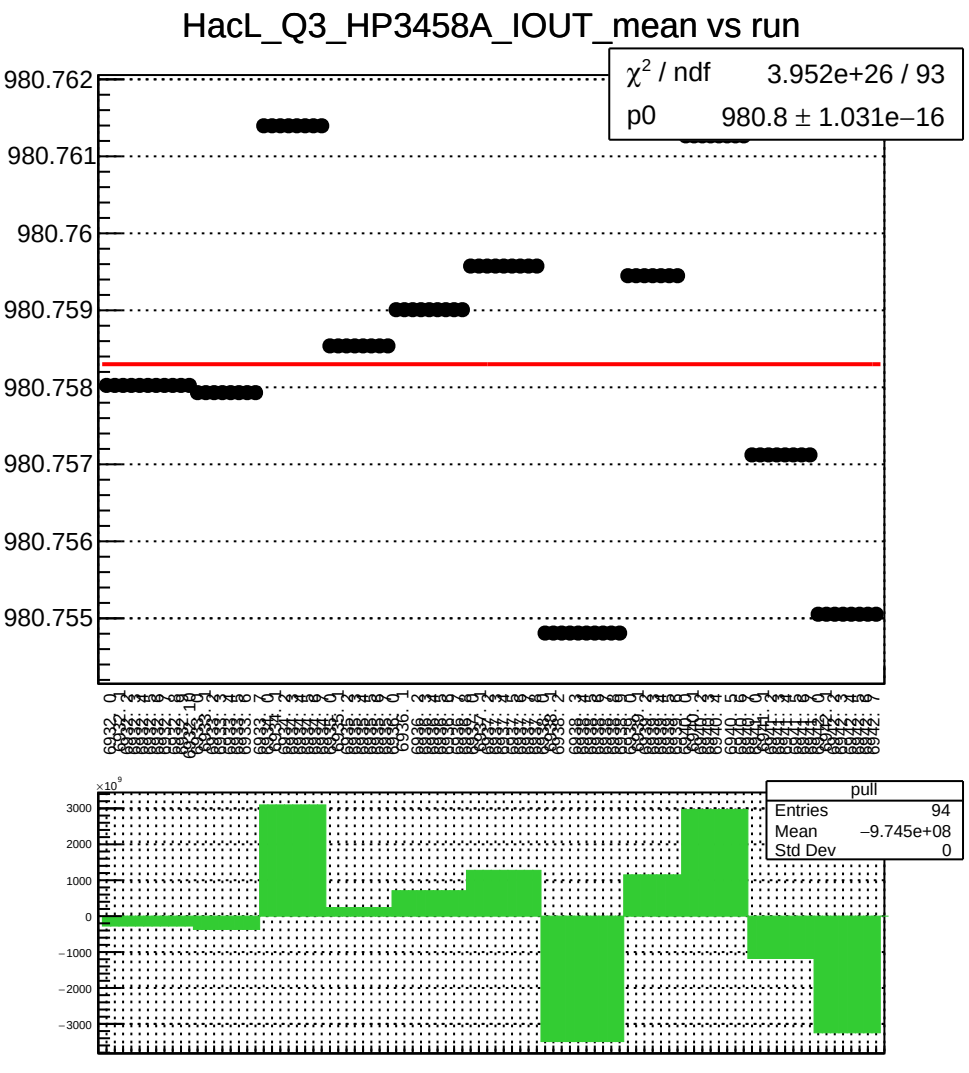

pull1D
Entries 94
Mean 0.02602
Std Dev 0

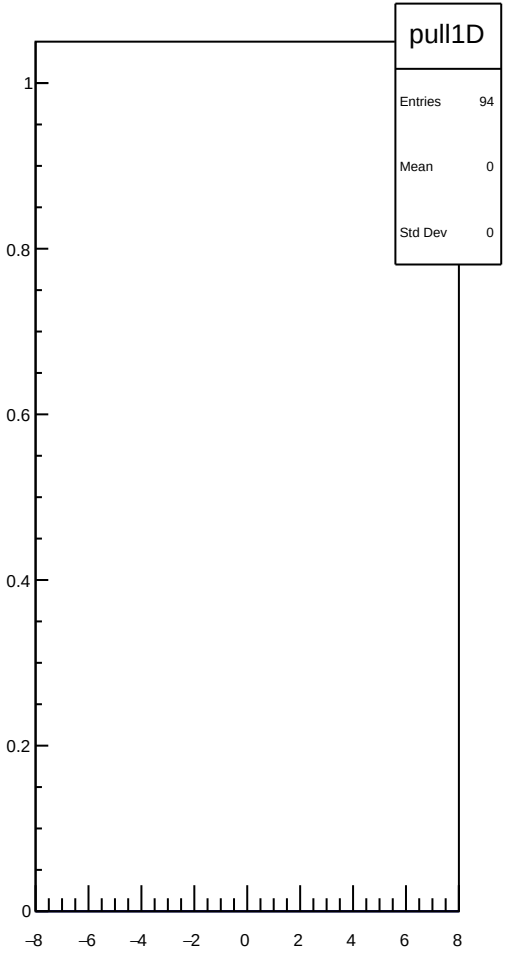

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.864e+28 / 93
p0 931.7 ± 1.031e−16
931.8
931.78
931.76
931.74
931.72
pull
Entries 94
Mean −5.903e+08
Std Dev 0
×10¹²
70
60
50
40
30
20
10
0
−10

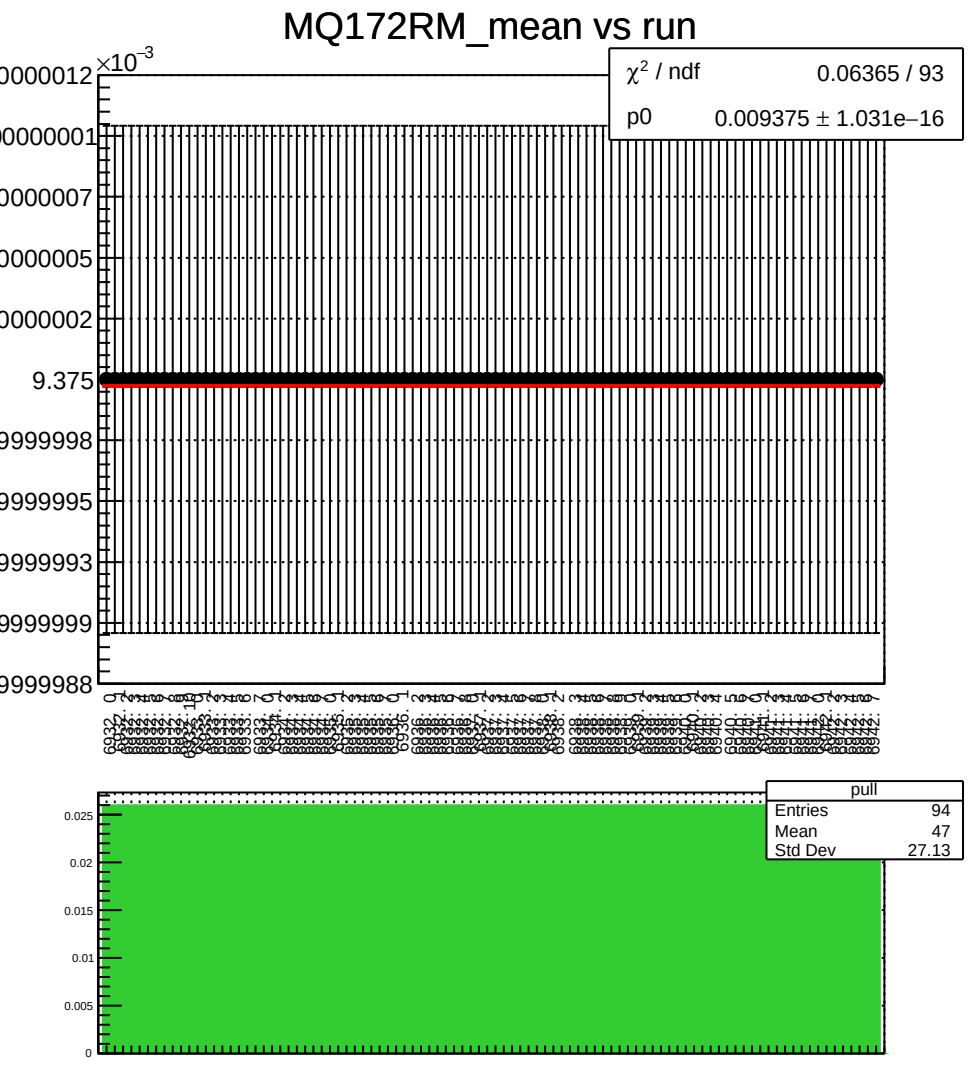

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

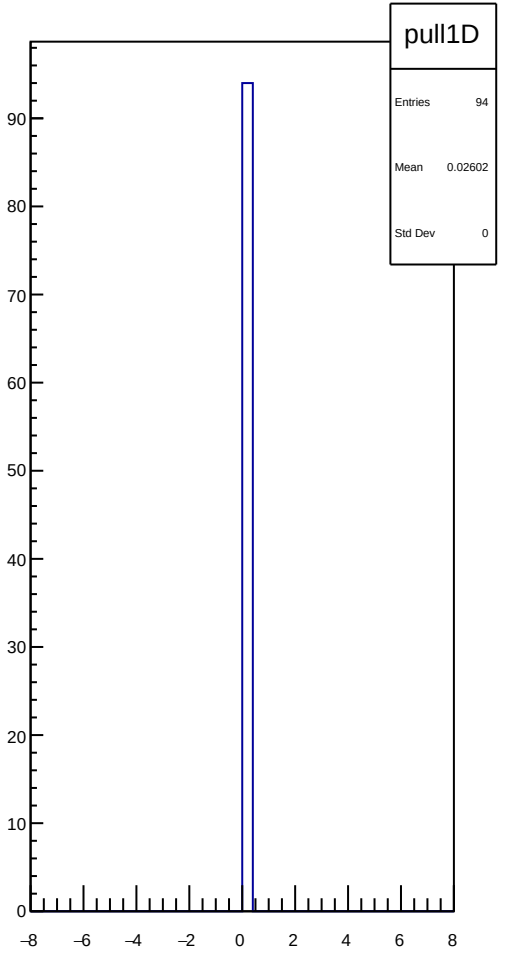

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.429e+26 / 93
p0 741.5 ± 1.031e−16
741.512
741.51
741.508
741.506
741.504
741.502
pull
Entries 94
Mean −4.503e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

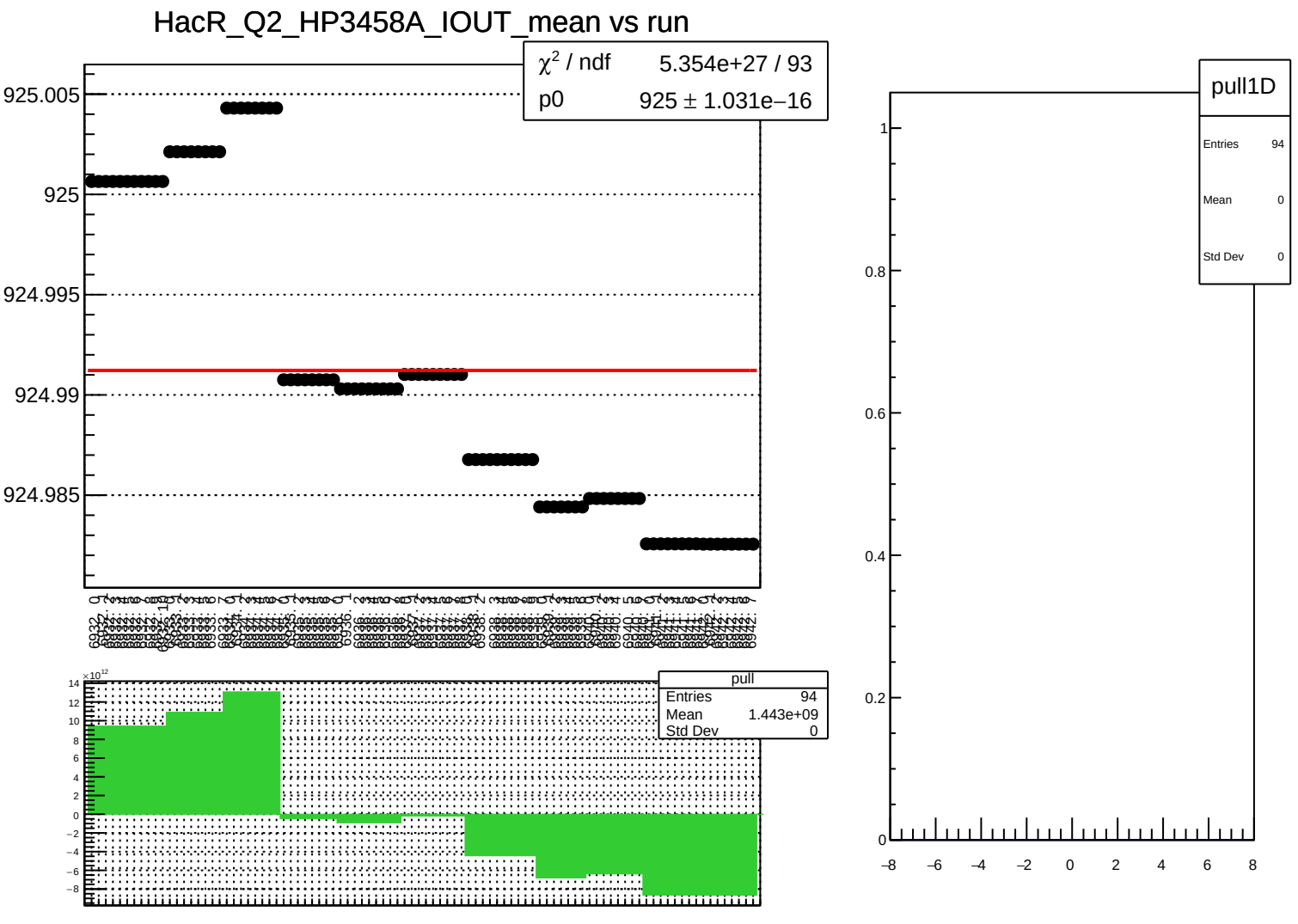

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

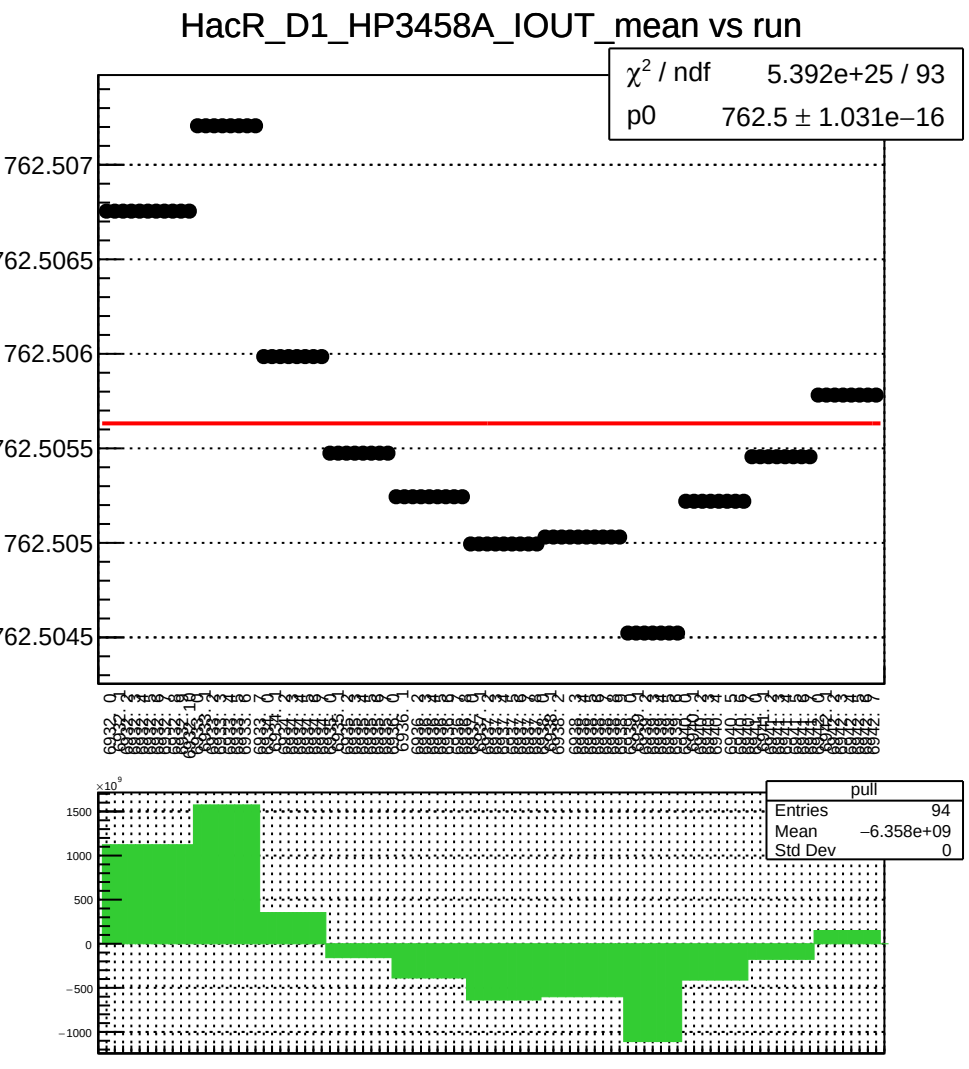

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.952e+26 / 93
p0 980.8 ± 1.031e−16
980.762
980.761
980.76
980.759
980.758
980.757
980.756
980.755
pull
Entries 94
Mean −9.745e+08
Std Dev 0
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

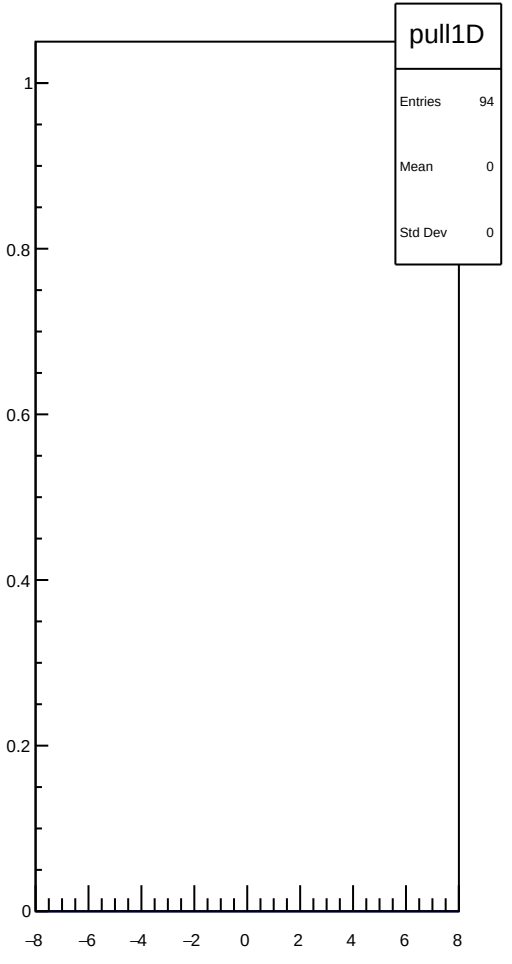

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

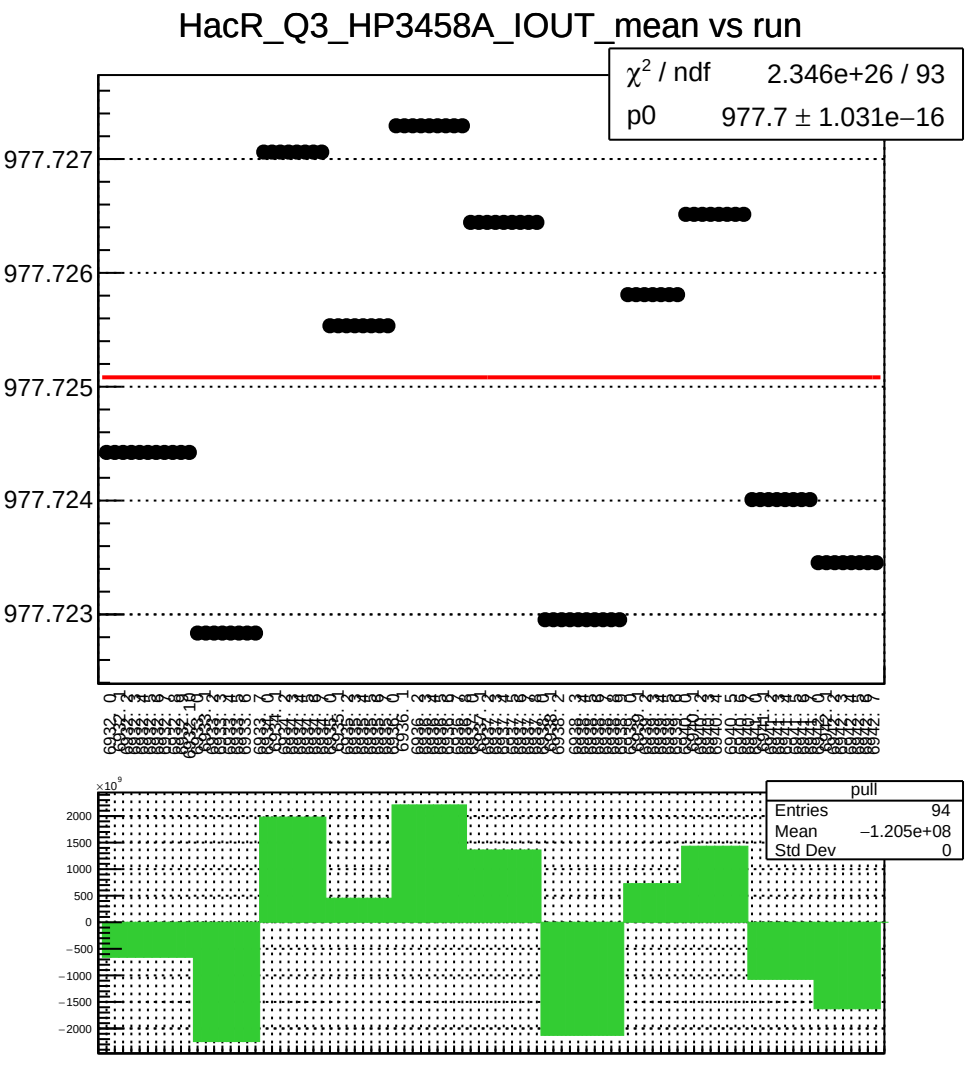

MQ172RM_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
9.375
pull
Entries 94
Mean 47
Std Dev 27.13

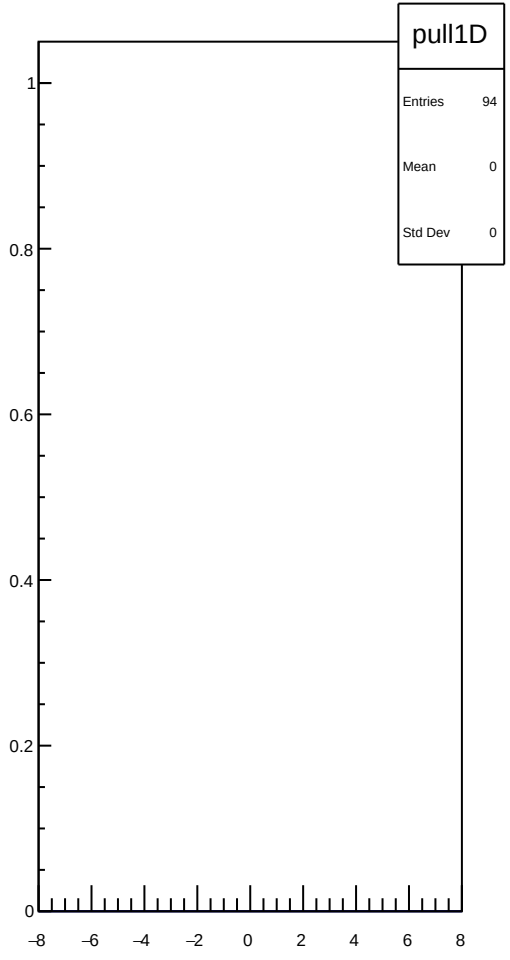

pull1D
Entries 94
Mean 0.02602
Std Dev 0

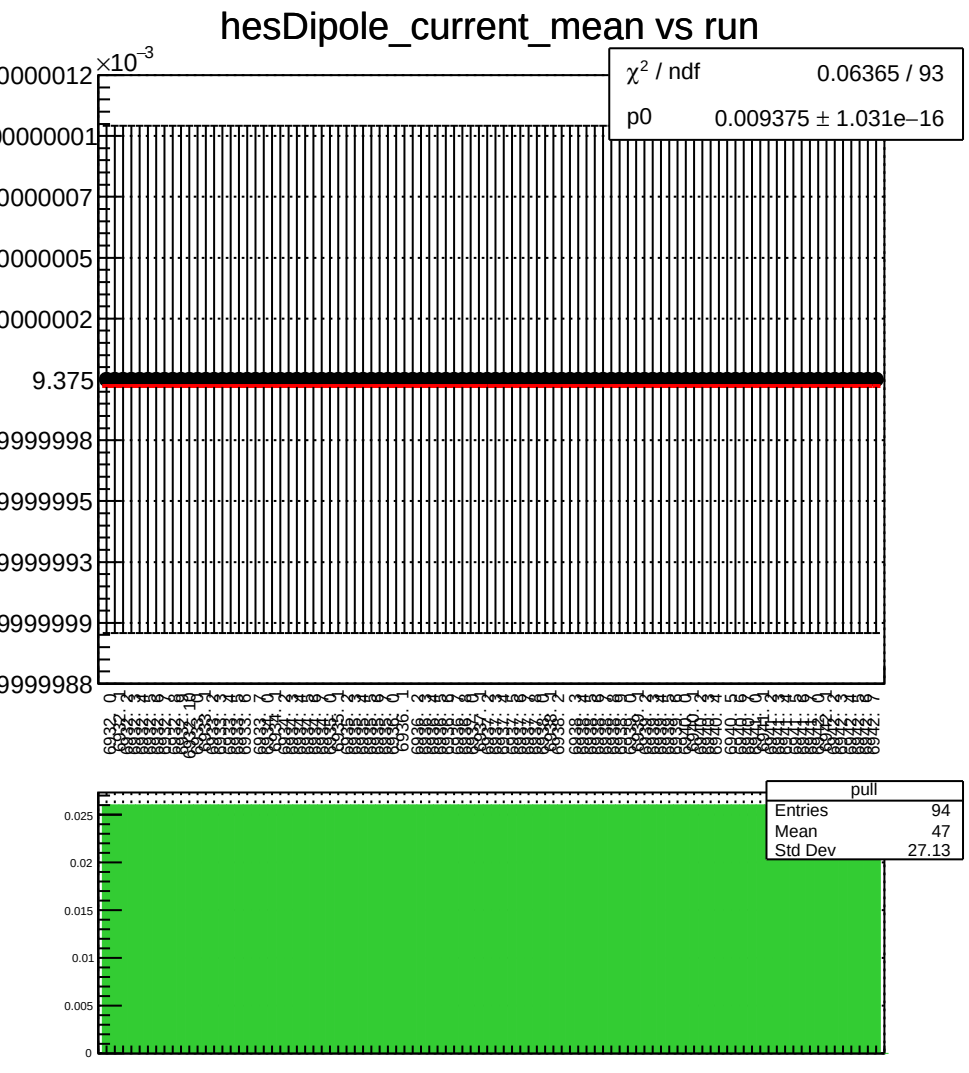

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.354e+27 / 93
p0 925 ± 1.031e−16
925.005
925
924.995
924.99
924.985
pull
Entries 94
Mean 1.443e+09
Std Dev 0
pull1D
Entries 94
Mean 0
Std Dev 0

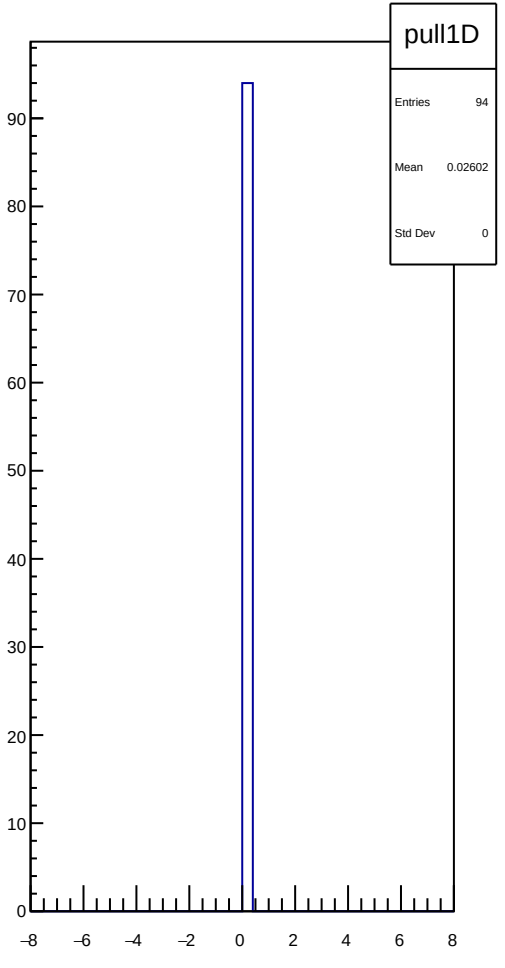

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.392e+25 / 93
p0 762.5 ± 1.031e−16
762.507
762.5065
762.506
762.5055
762.505
762.5045
×10⁹
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −6.358e+09
Std Dev 0

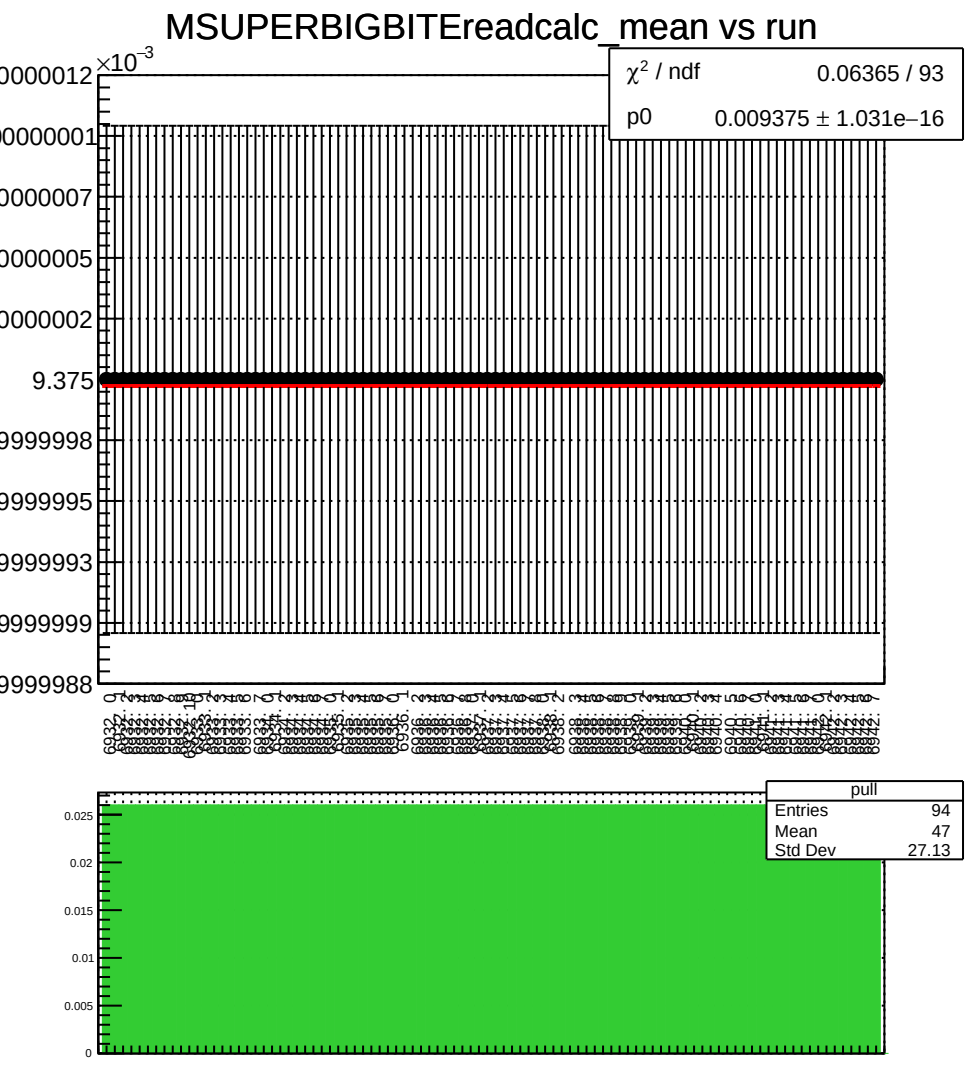

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

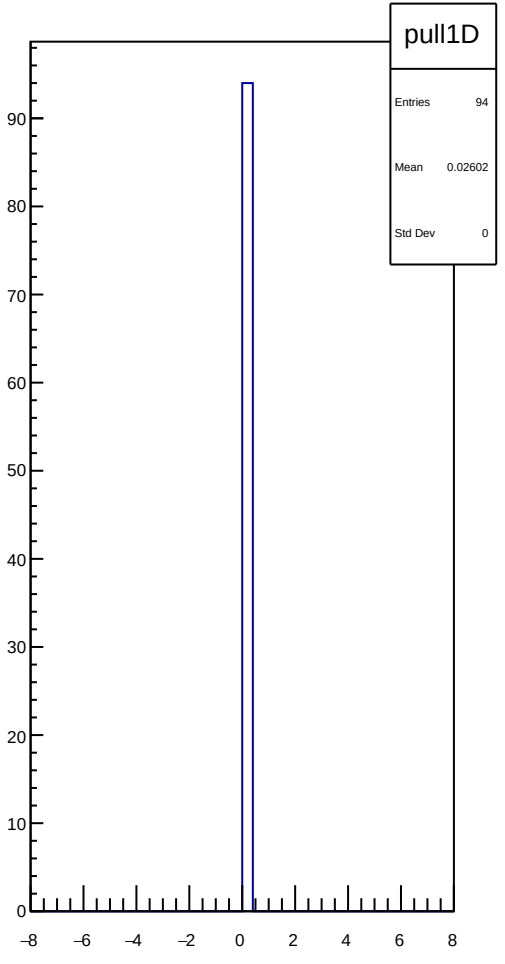

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.346e+26 / 93
p0 977.7 ± 1.031e−16
977.727
977.726
977.725
977.724
977.723
×10⁹
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean −1.205e+08
Std Dev 0

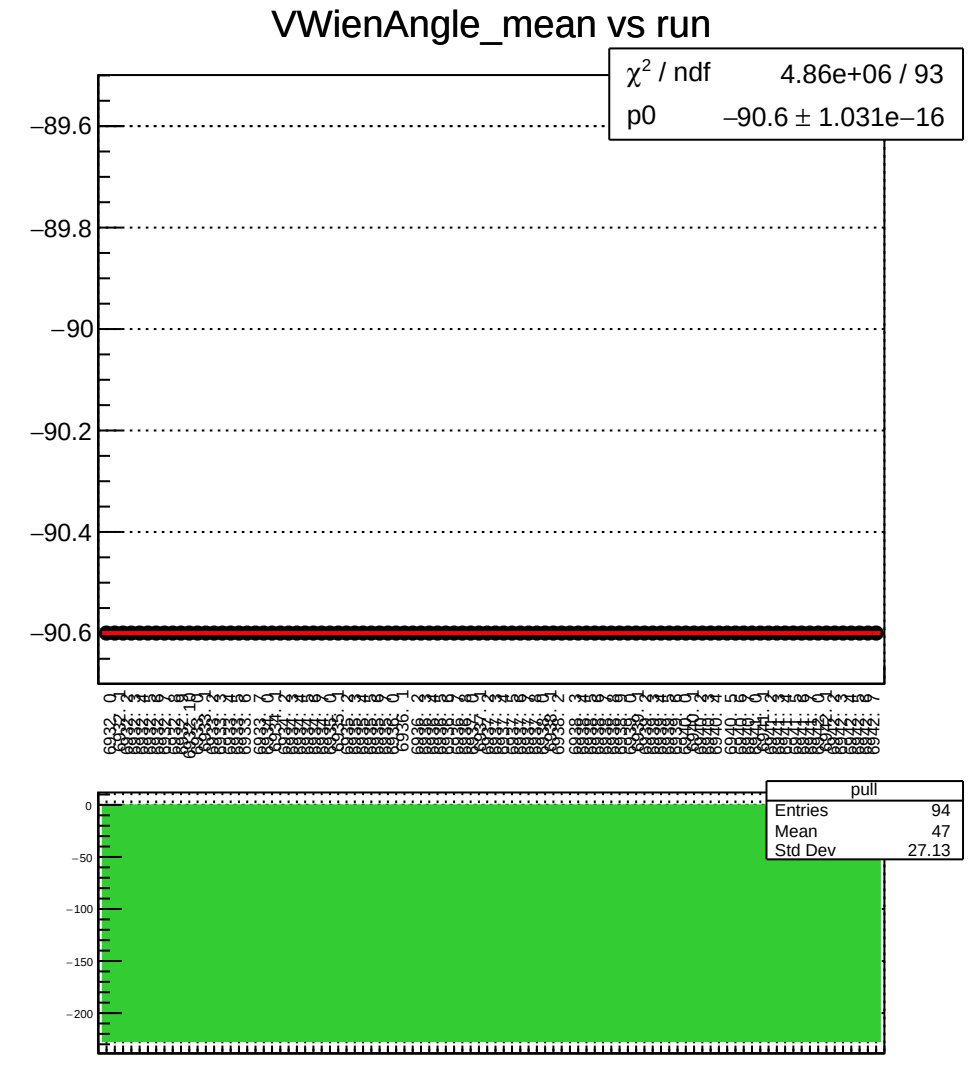

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

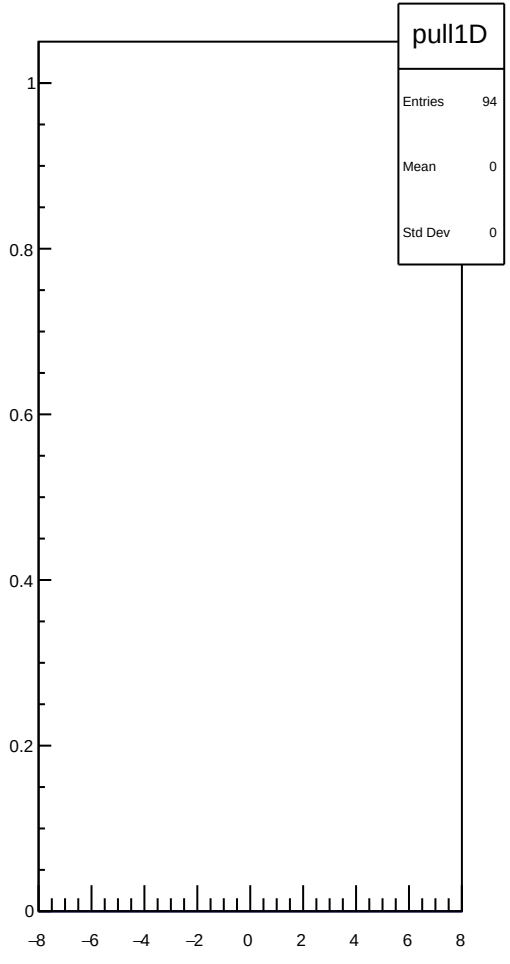

hesDipole_current_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

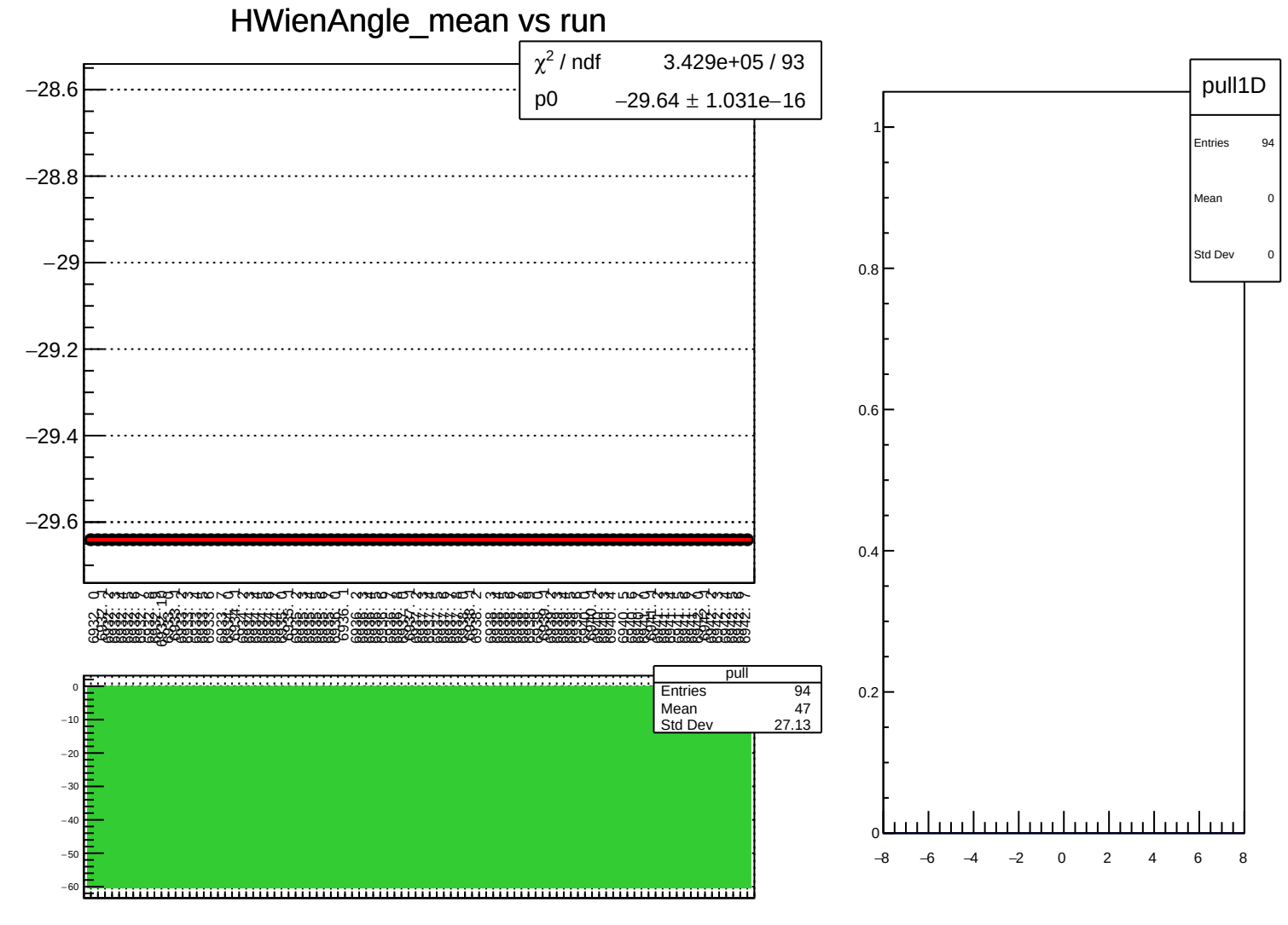

pull1D
Entries 94
Mean 0.02602
Std Dev 0

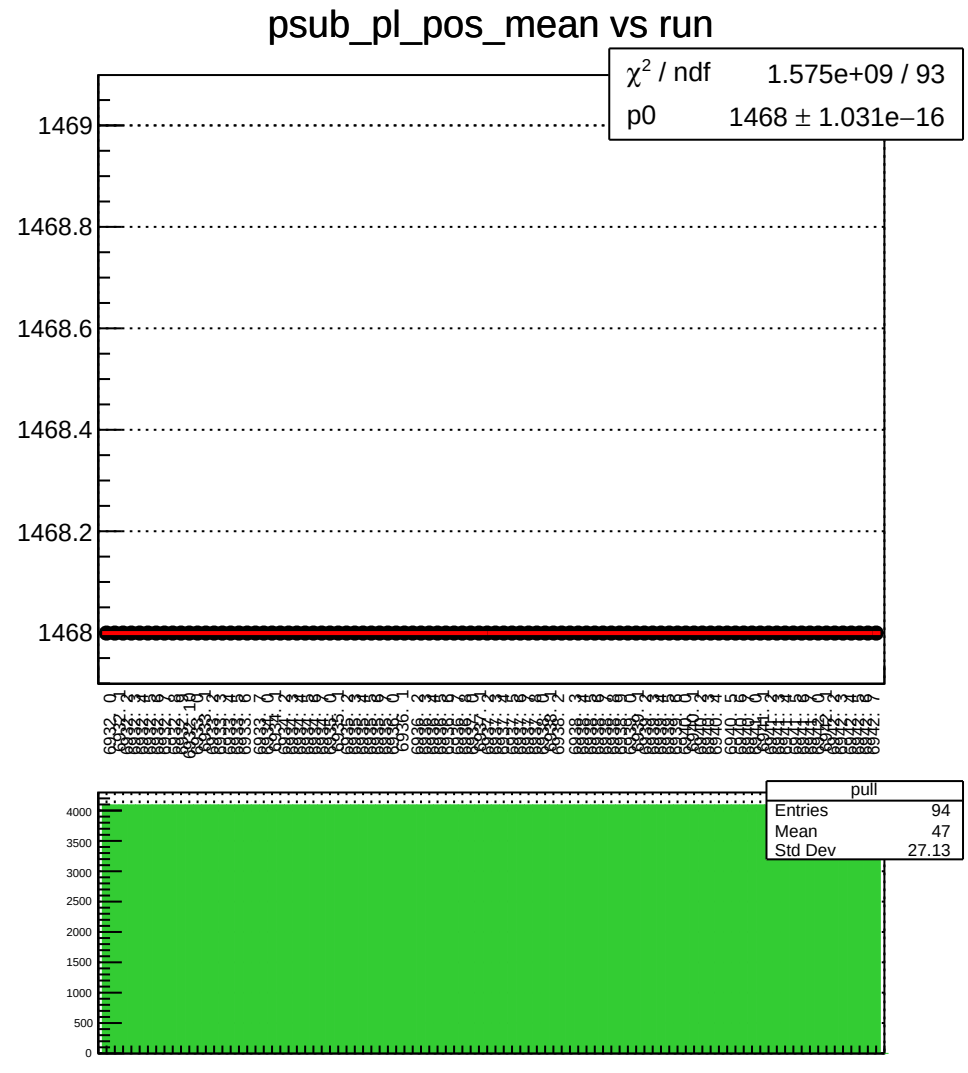

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

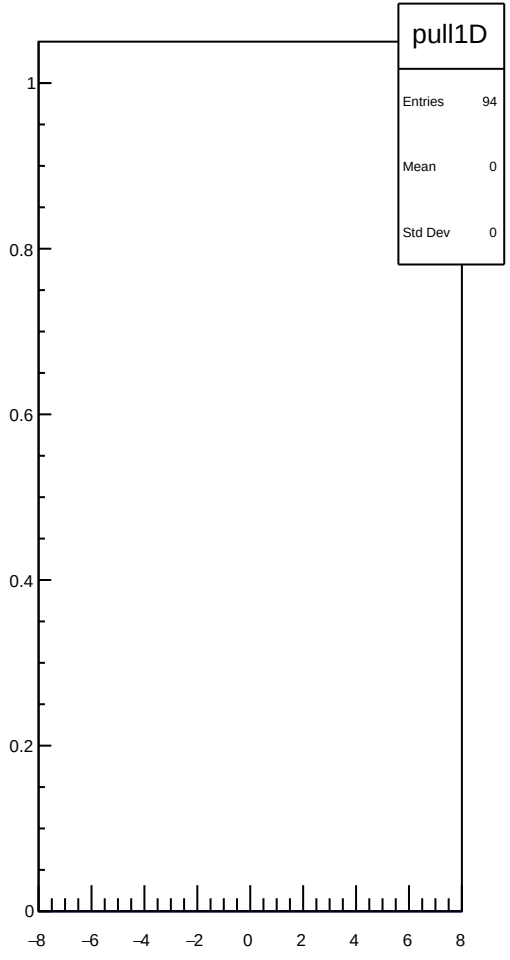

pull1D
Entries 94
Mean 0.02602
Std Dev 0

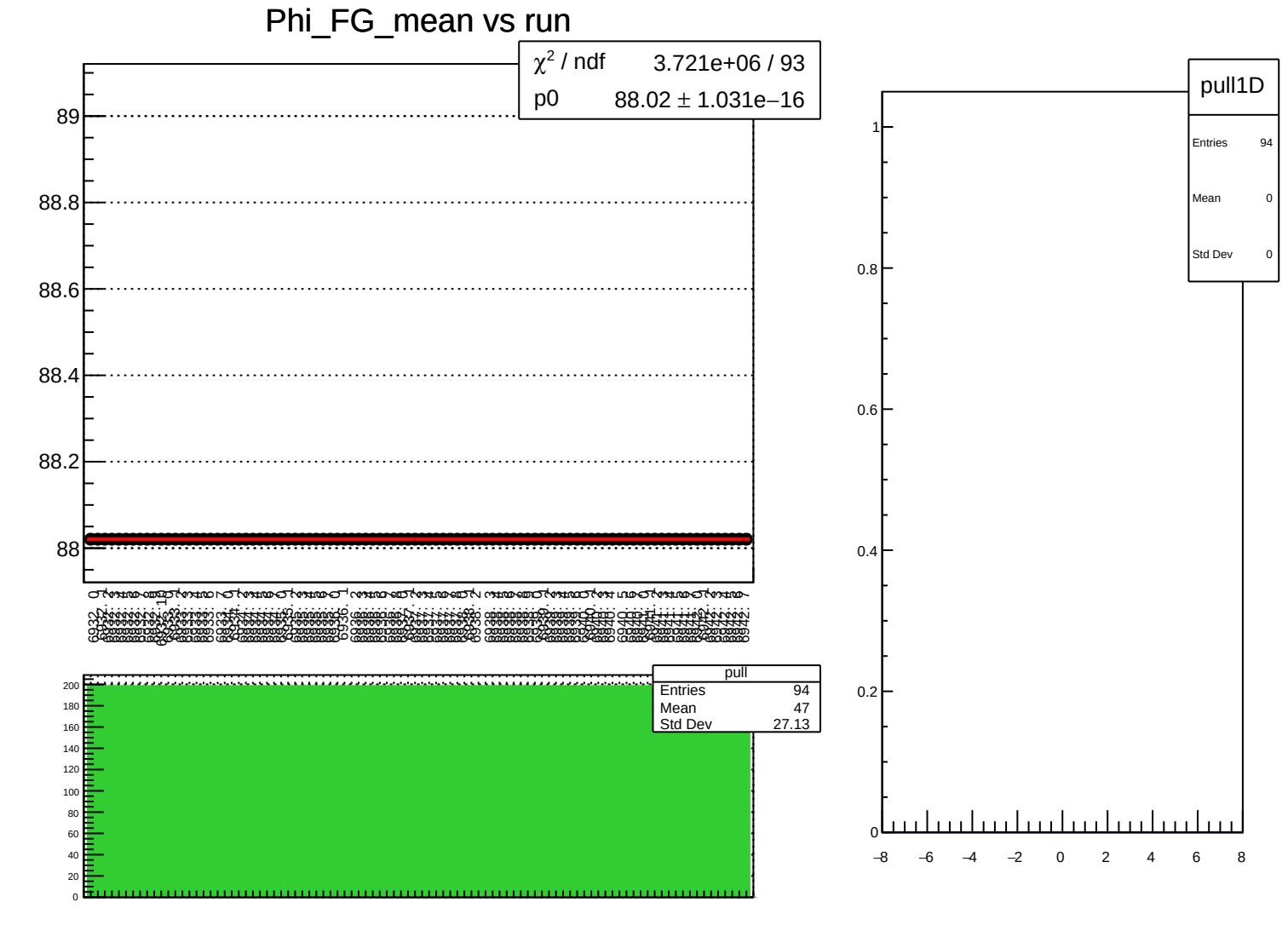

VWienAngle_mean vs run
χ² / ndf 4.86e+06 / 93
p0 −90.6 ± 1.031e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−50
−100
−150
−200

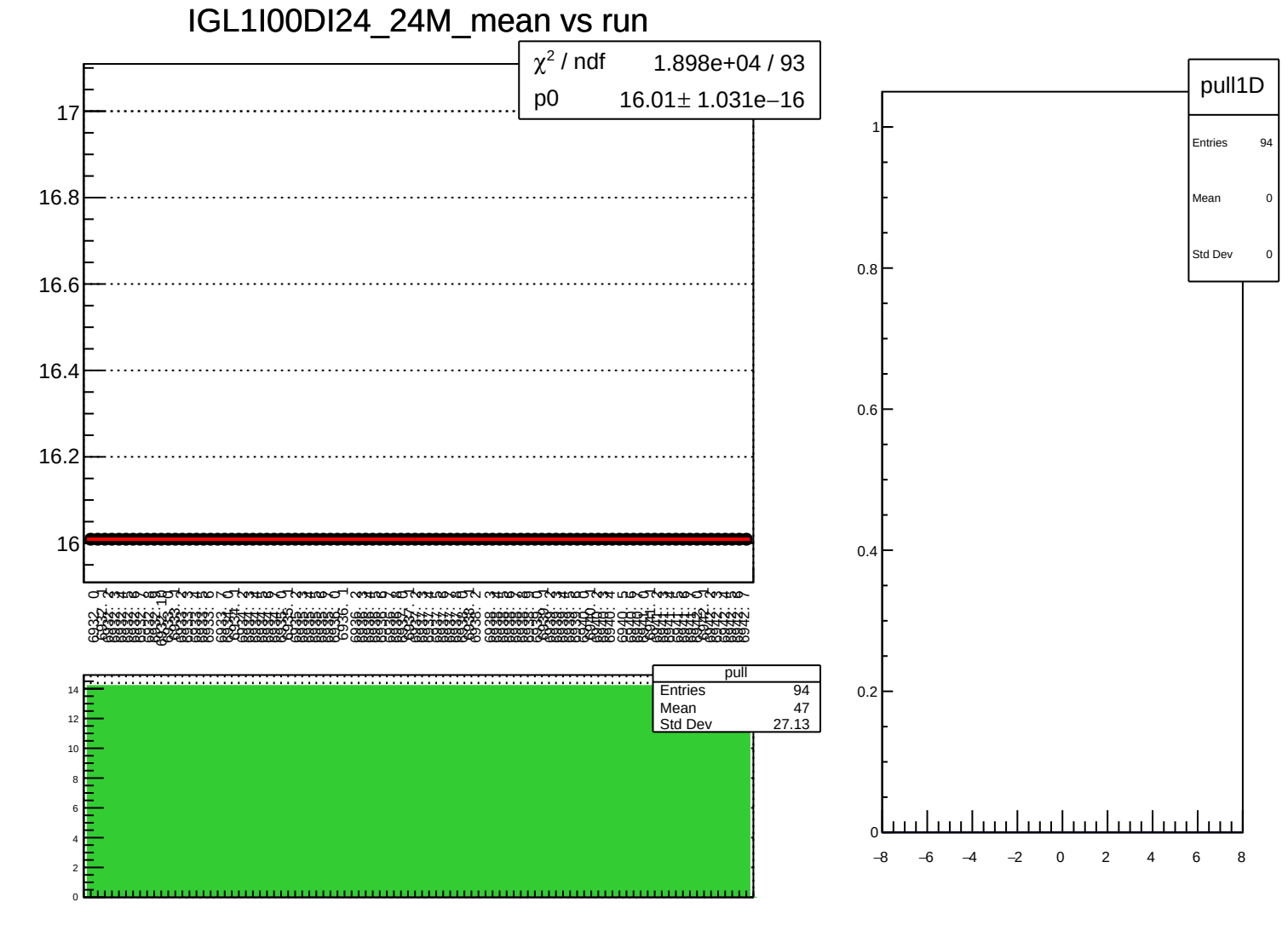

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

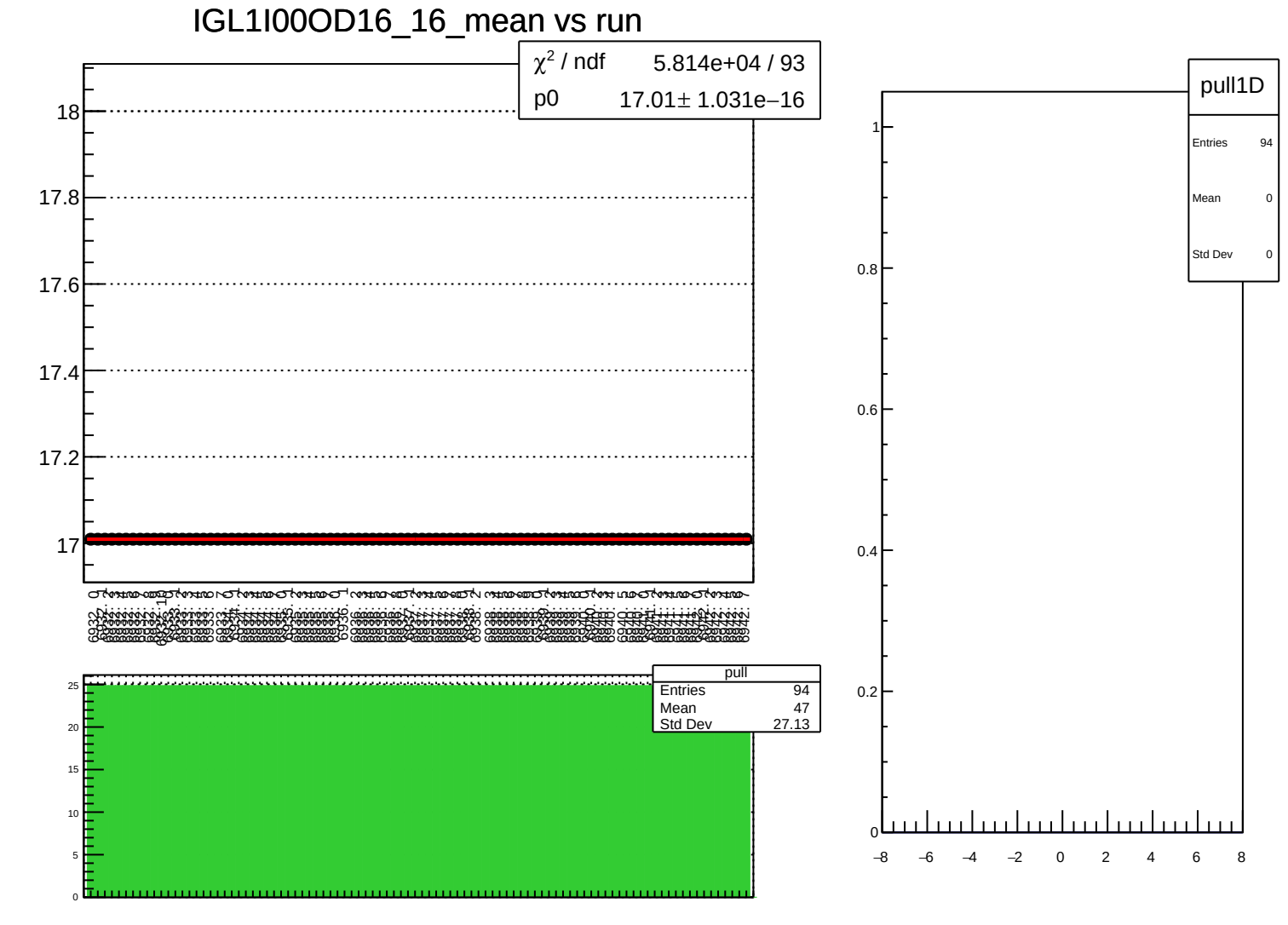

HWienAngle_mean vs run
χ² / ndf 3.429e+05 / 93
p0 −29.64 ± 1.031e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

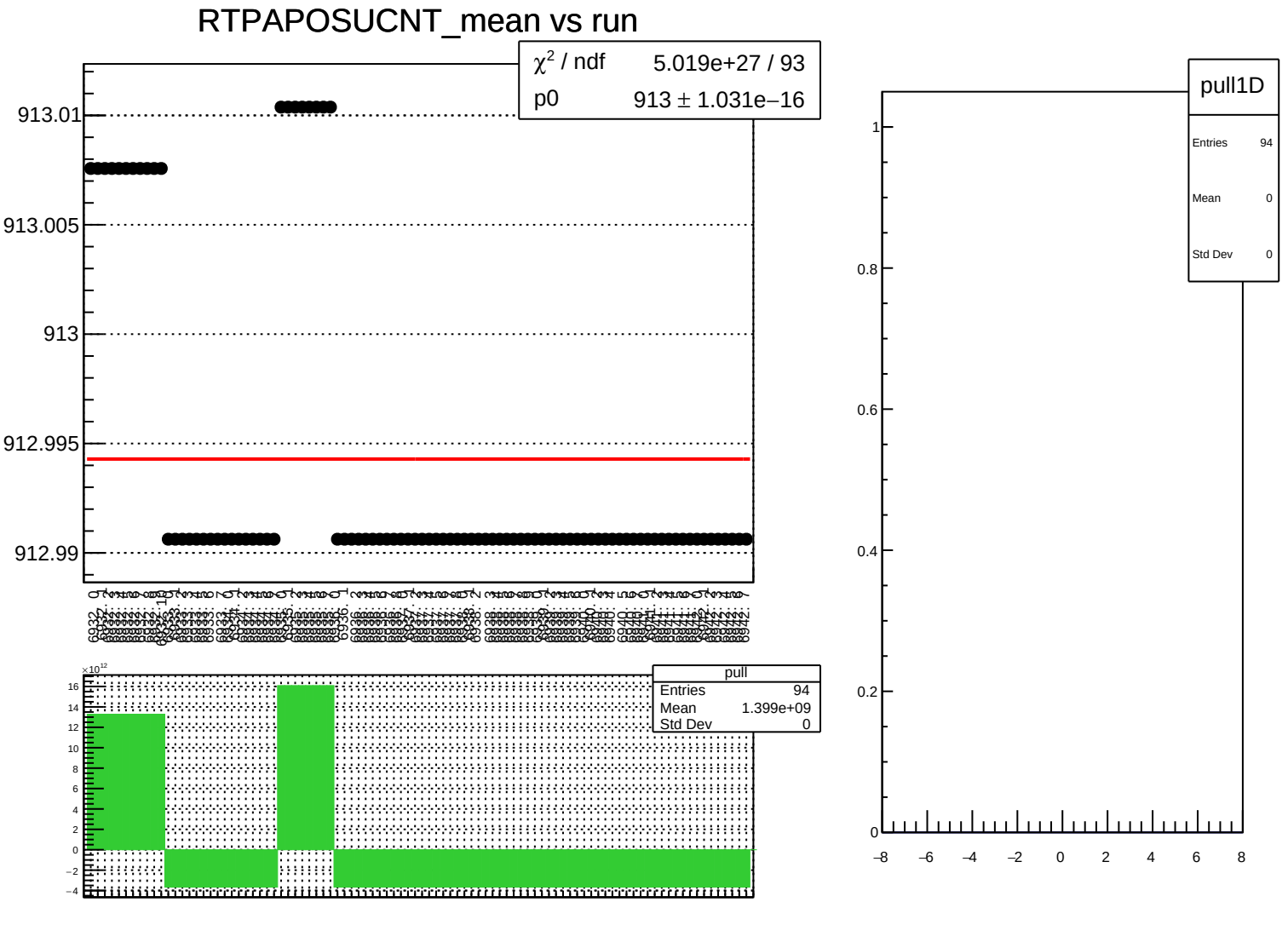

psub_pl_pos_mean vs run
χ² / ndf 1.575e+09 / 93
p0 1468 ± 1.031e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 94
Mean 47
Std Dev 27.13
4000
3500
3000
2500
2000
1500
1000
500
0

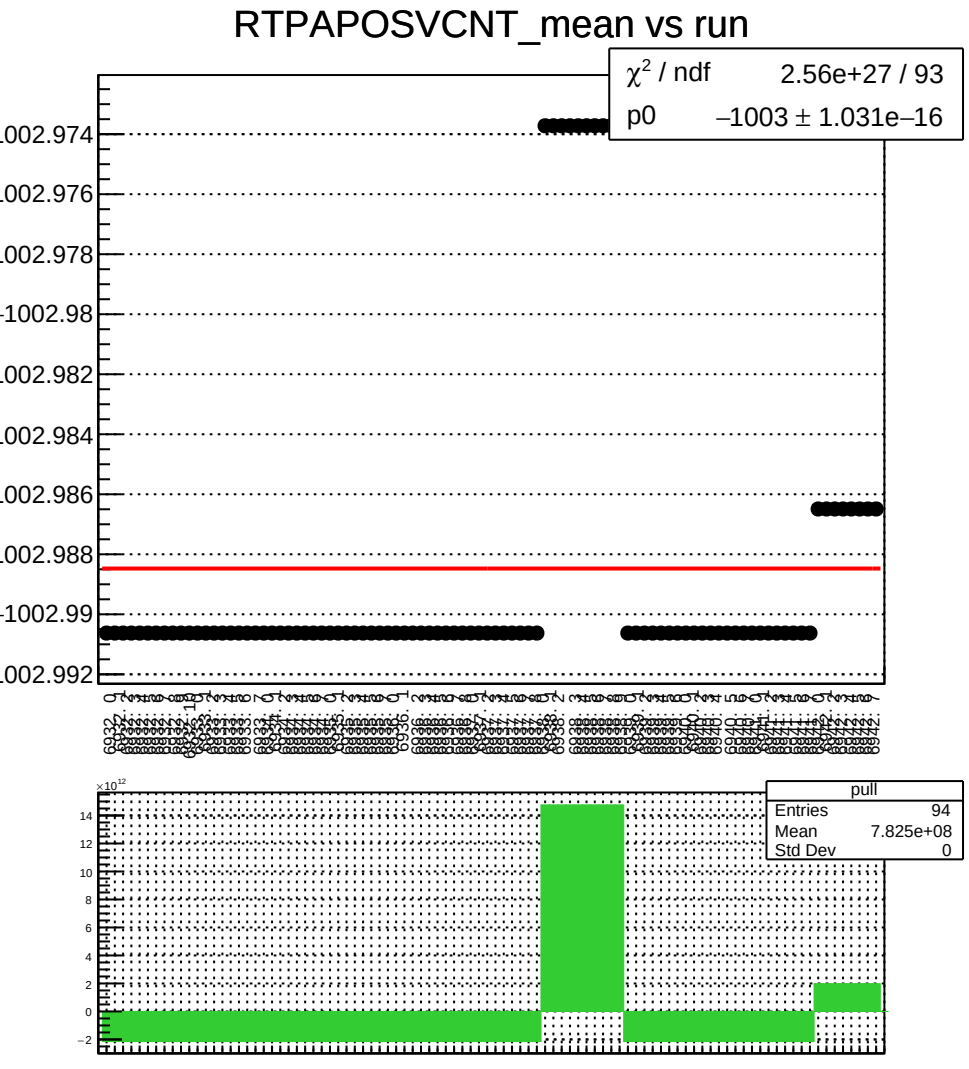

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

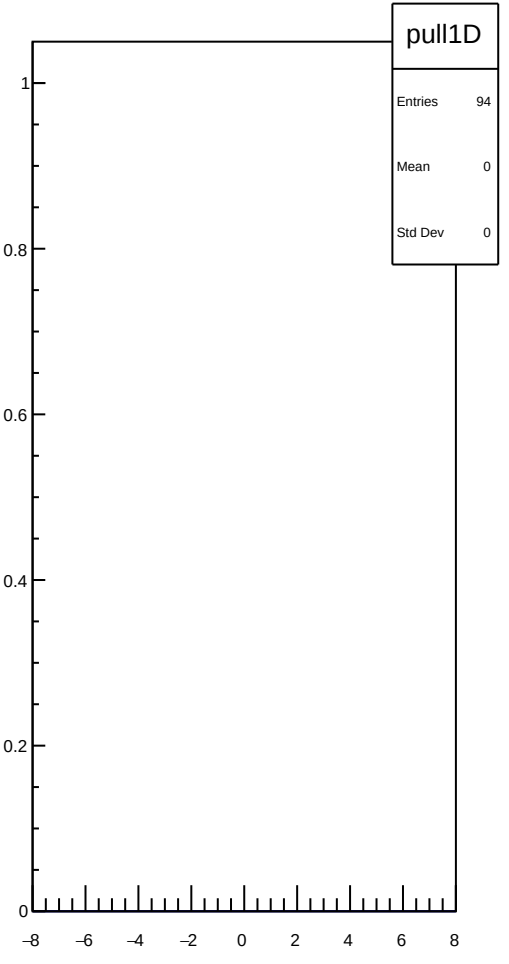

Phi_FG_mean vs run
χ² / ndf 3.721e+06 / 93
p0 88.02 ± 1.031e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 94
Mean 47
Std Dev 27.13
200
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

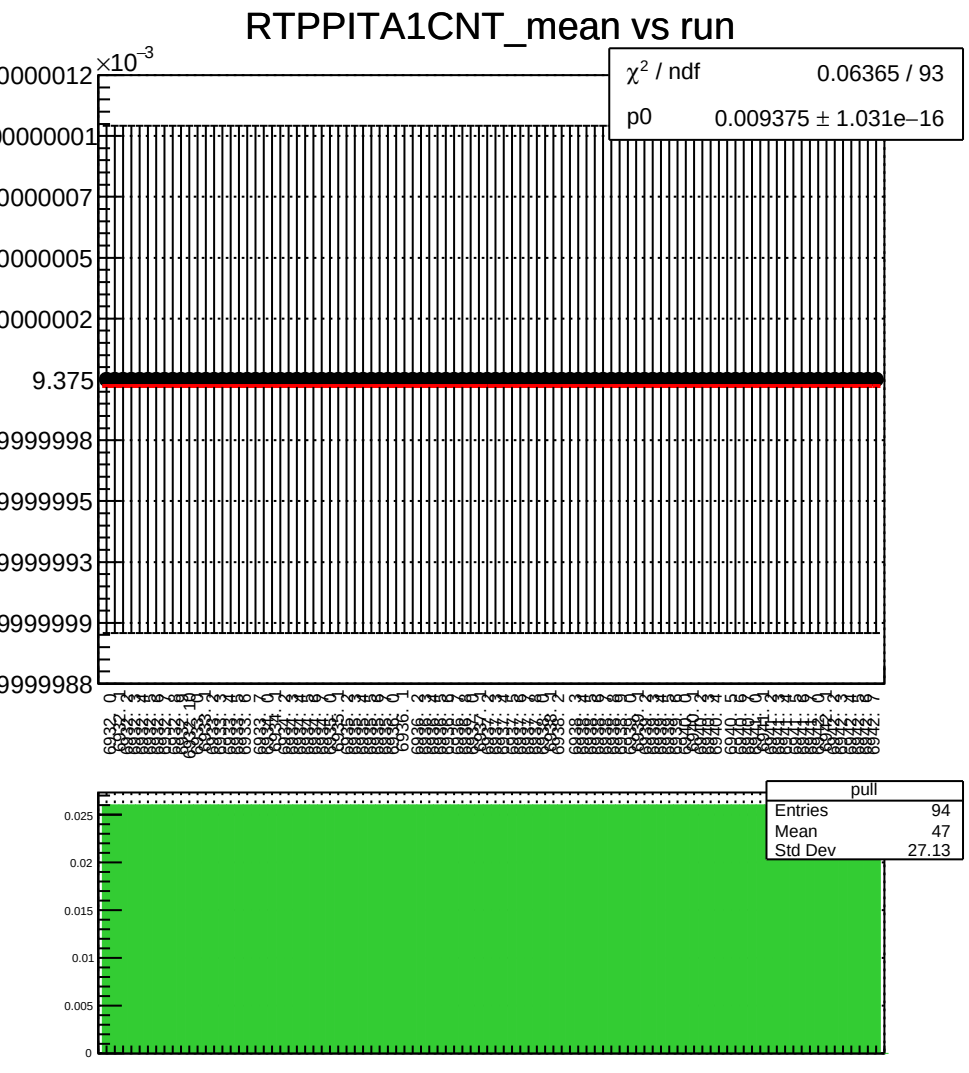

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.898e+04 / 93
p0 16.01± 1.031e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 94
Mean 47
Std Dev 27.13
14
12
10
8
6
4
2
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

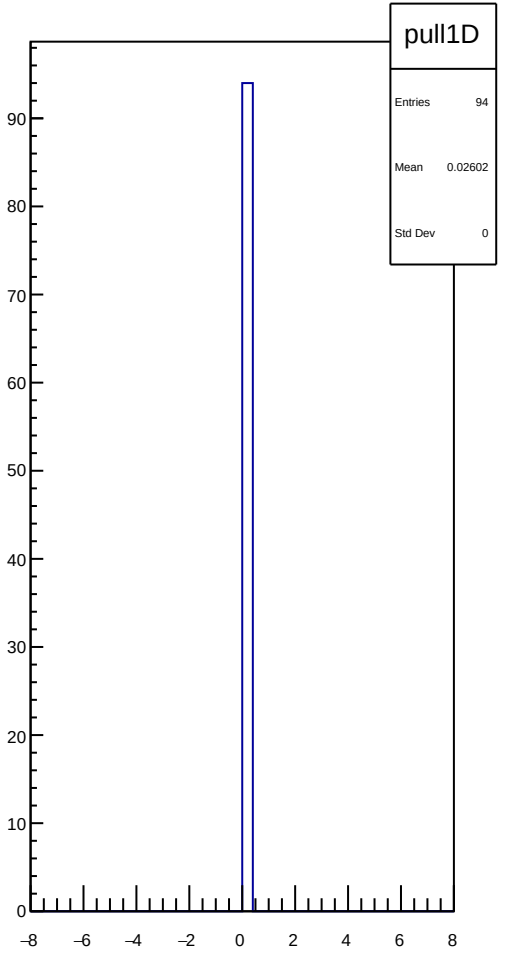

IGL1I00OD16_16_mean vs run
χ² / ndf 5.814e+04 / 93
p0 17.01± 1.031e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 94
Mean 47
Std Dev 27.13
25
20
15
10
5
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

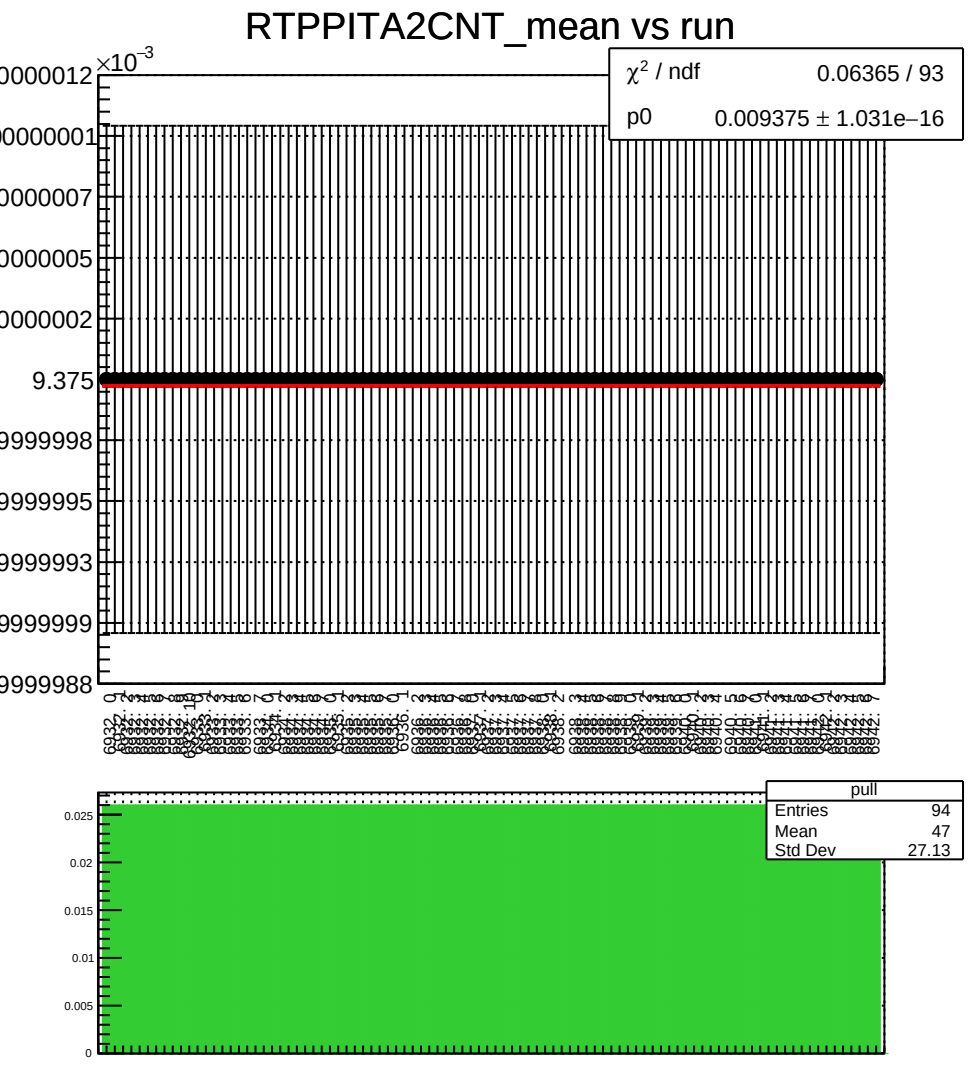

RTPAPOSUCNT_mean vs run
χ² / ndf 5.019e+27 / 93
p0 913 ± 1.031e−16
913.01
913.005
913
912.995
912.99
pull
Entries 94
Mean 1.399e+09
Std Dev 0
×10¹²
16
14
12
10
8
6
4
2
0
−2
−4
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

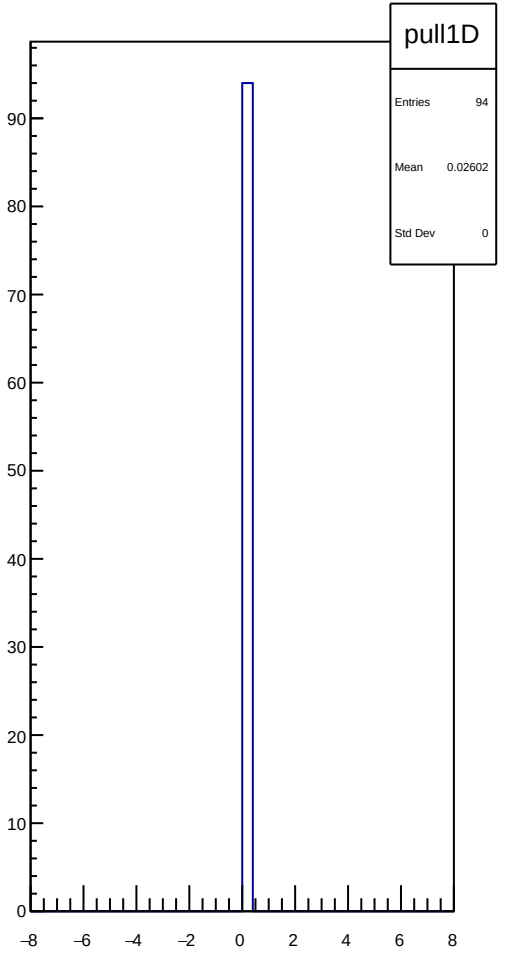

RTPAPOSVCNT_mean vs run
χ² / ndf 2.56e+27 / 93
p0 −1003 ± 1.031e−16
−1002.974
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 94
Mean 7.825e+08
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
−2


pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
9.375
pull
Entries 94
Mean 47
Std Dev 27.13


pull1D
Entries 94
Mean 0.02602
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
9.375
pull
Entries 94
Mean 47
Std Dev 27.13


pull1D
Entries 94
Mean 0.02602
Std Dev 0