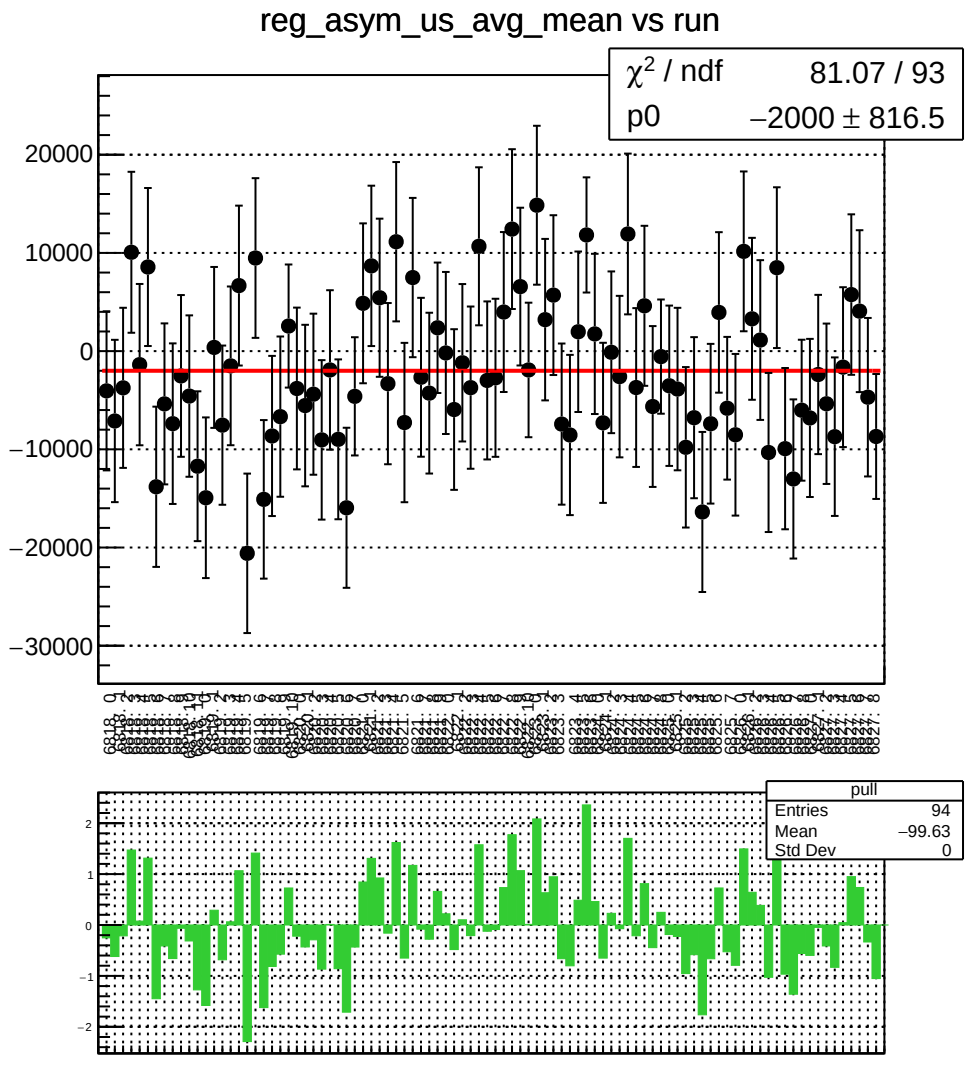
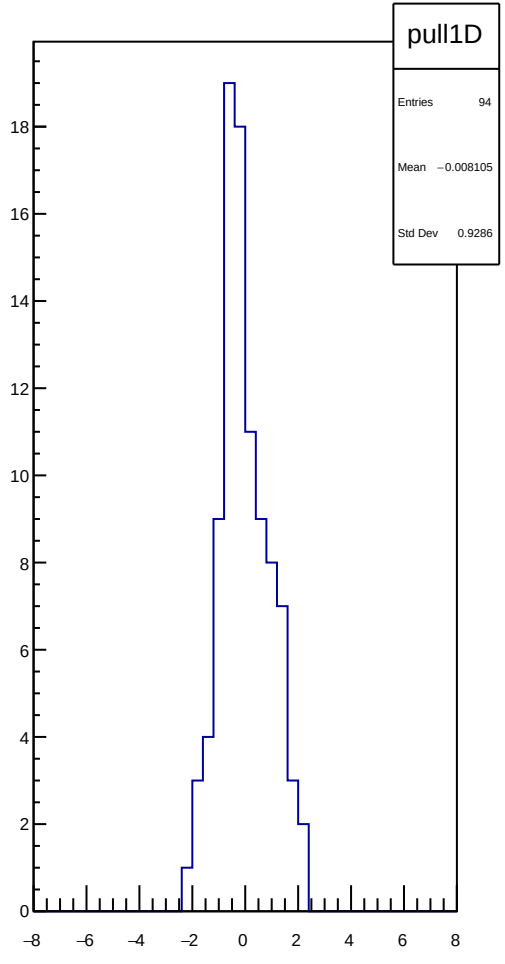
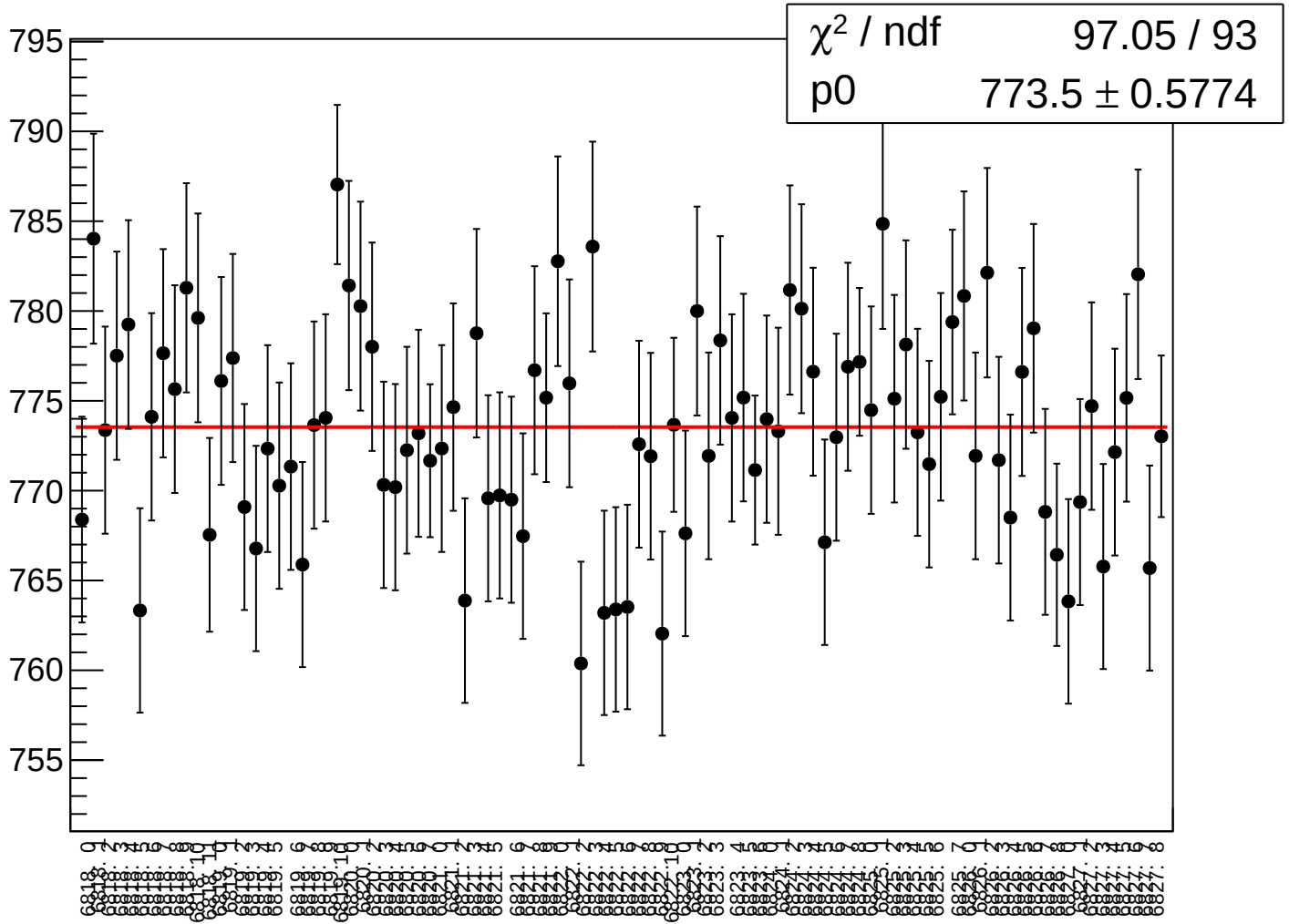
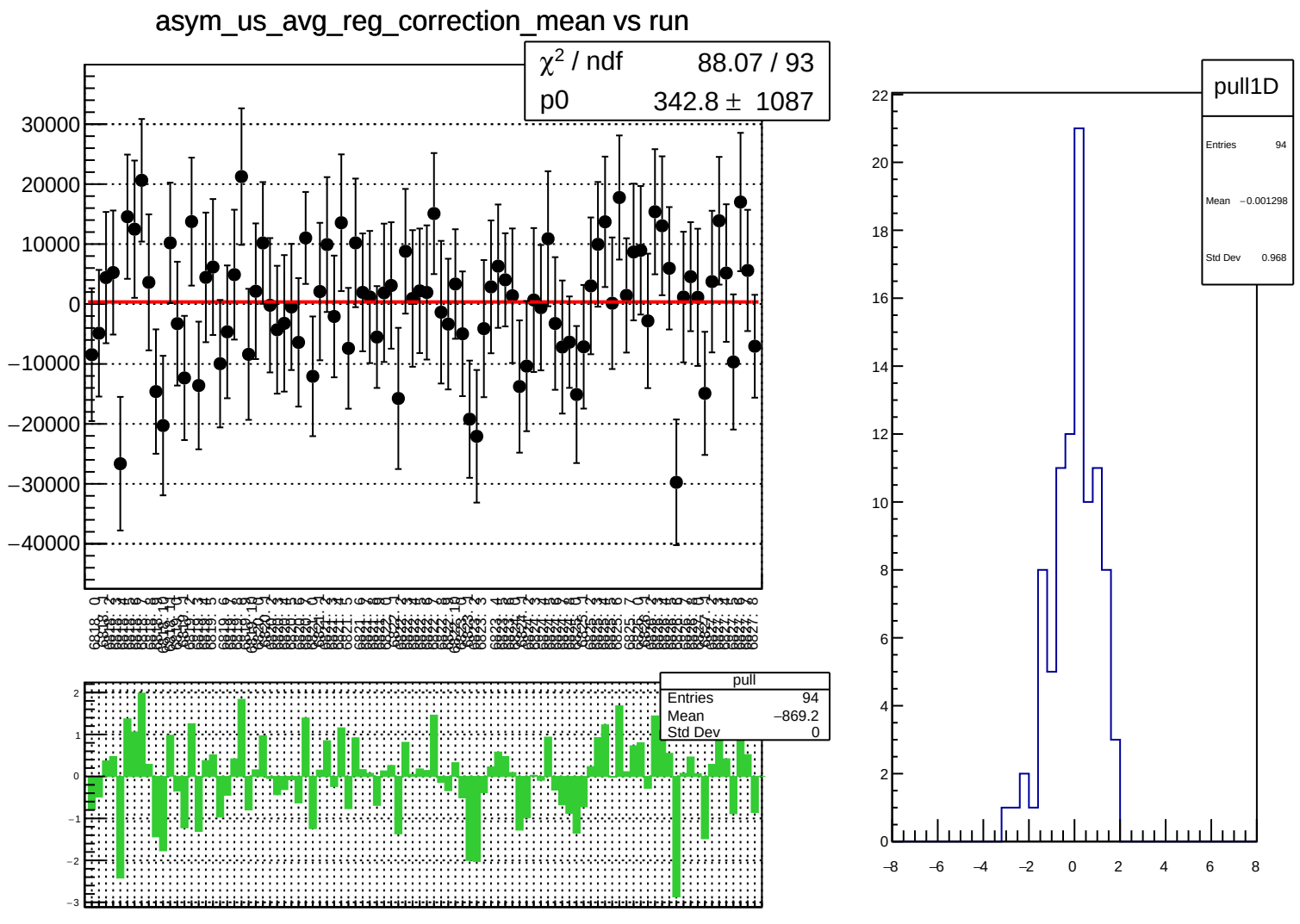
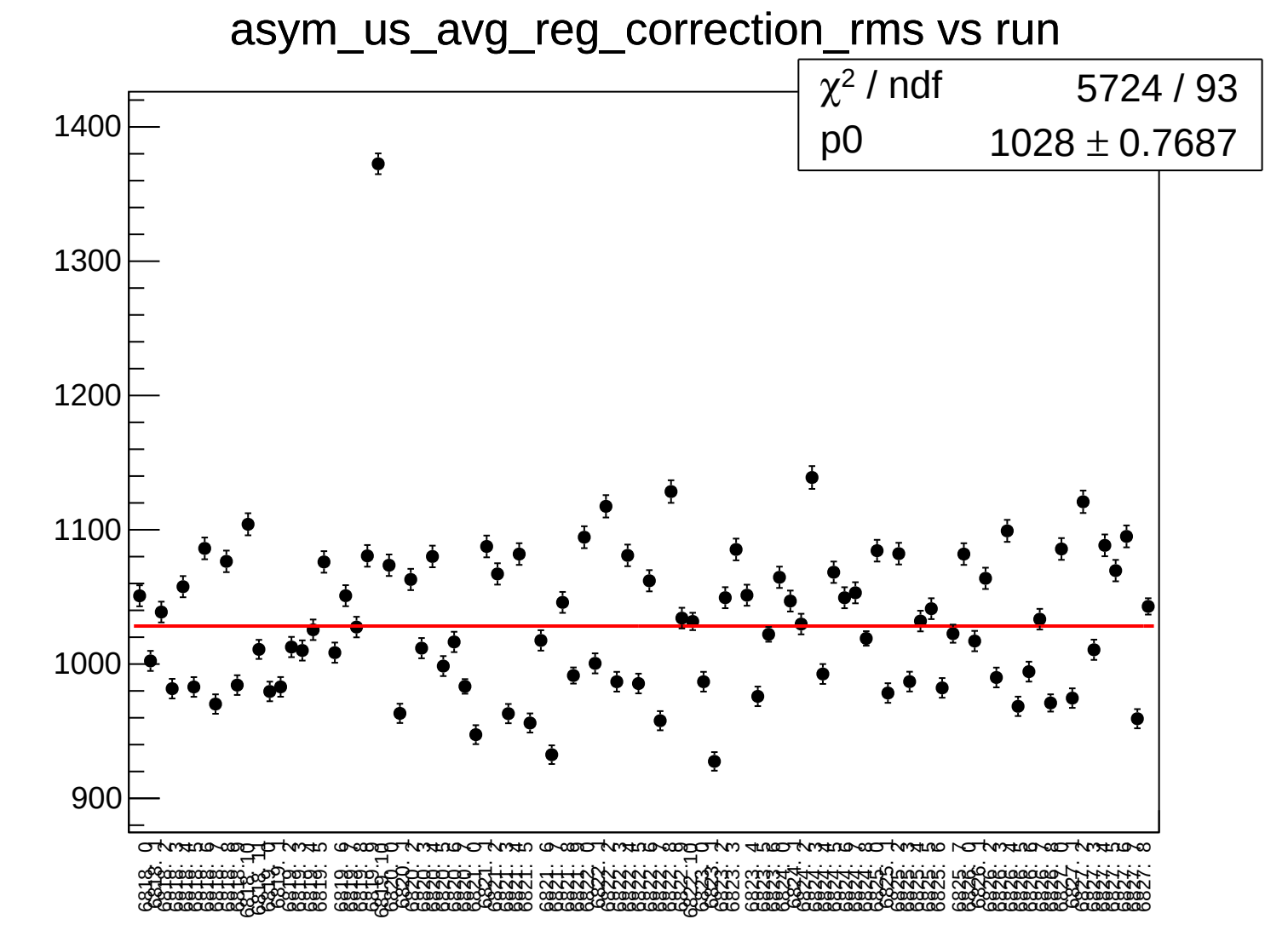
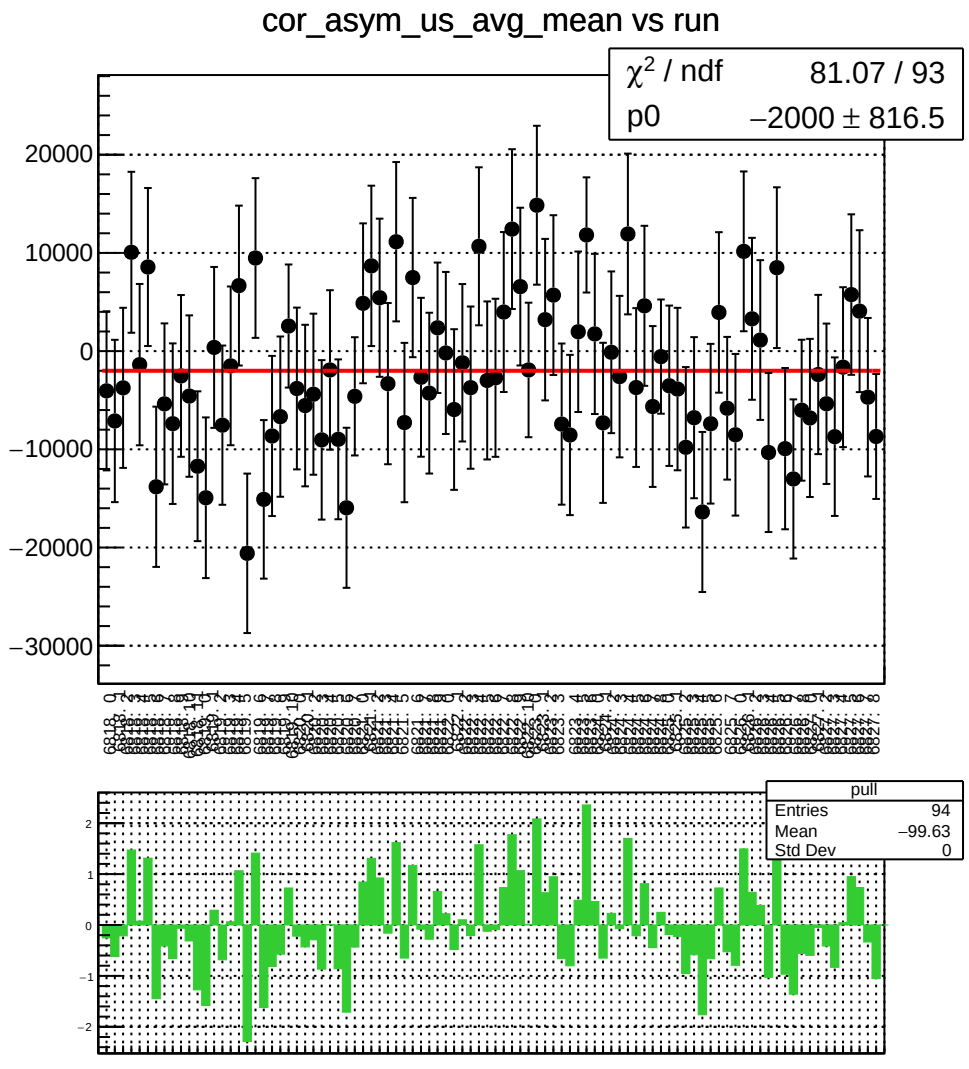

reg_asym_us_avg_mean vs run
χ² / ndf 81.07 / 93
p0 −2000 ± 816.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −99.63
Std Dev 0
2
1
0
−1
−2

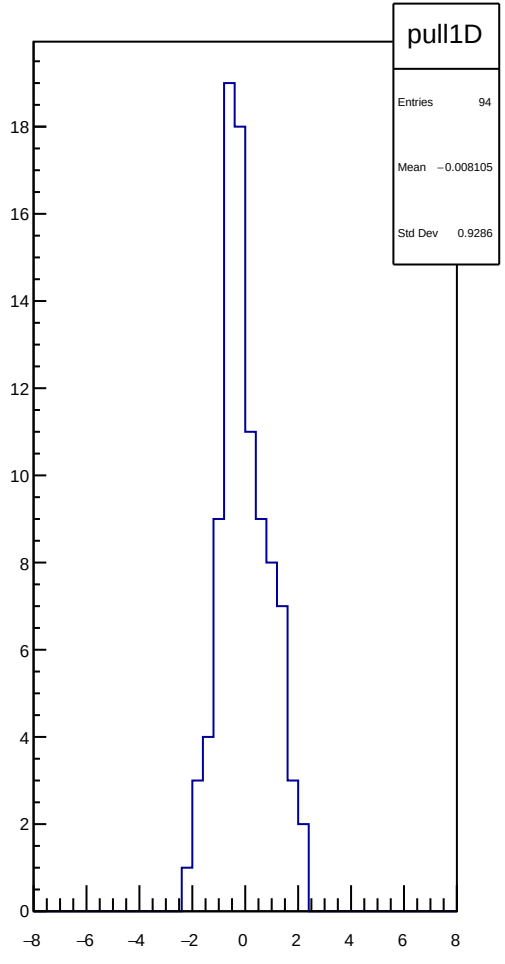

pull1D
Entries 94
Mean −0.008105
Std Dev 0.9286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

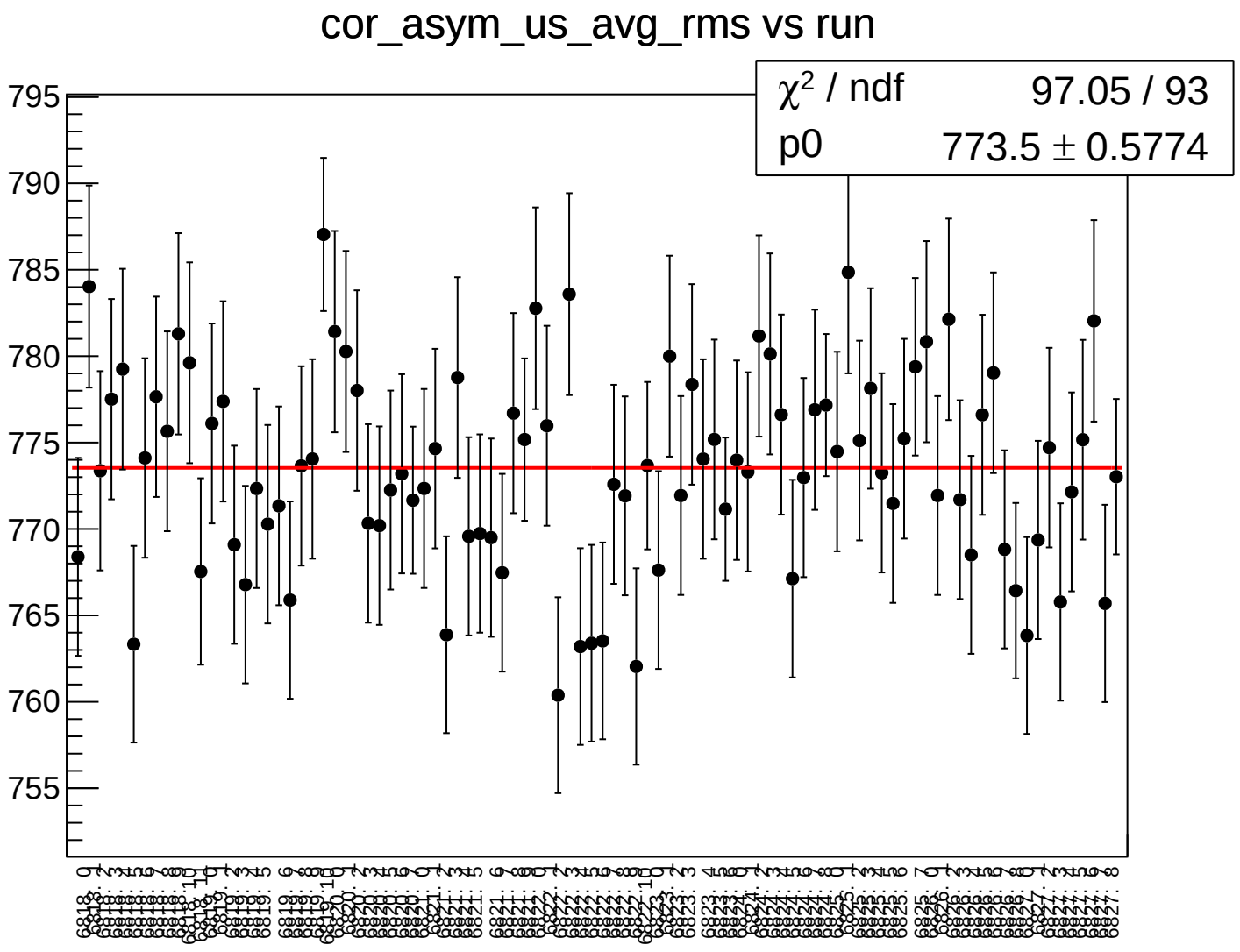

reg_asym_us_avg_rms vs run
χ² / ndf 97.05 / 93
p0 773.5 ± 0.5774
795
790
785
780
775
770
765
760
755

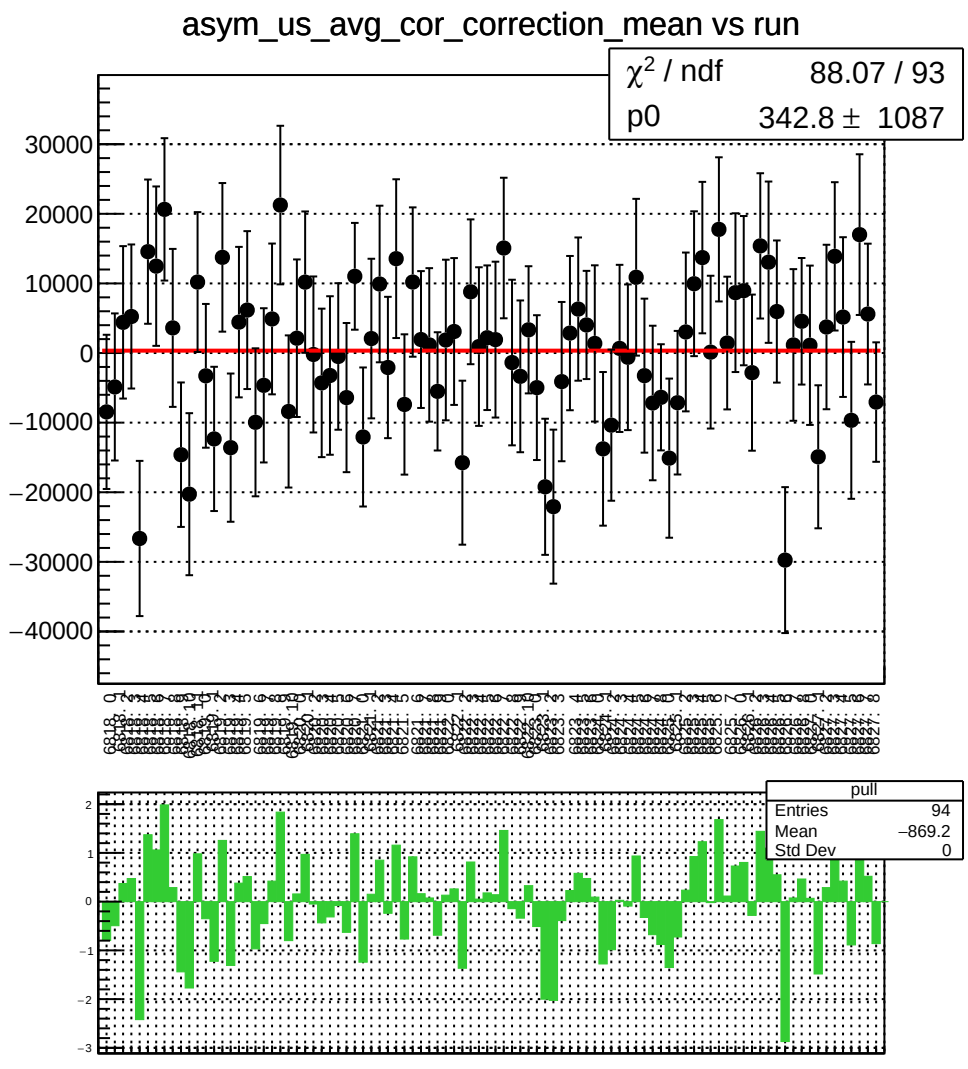

asym_us_avg_reg_correction_mean vs run
χ² / ndf 88.07 / 93
p0 342.8 ± 1087
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −869.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.001298
Std Dev 0.968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

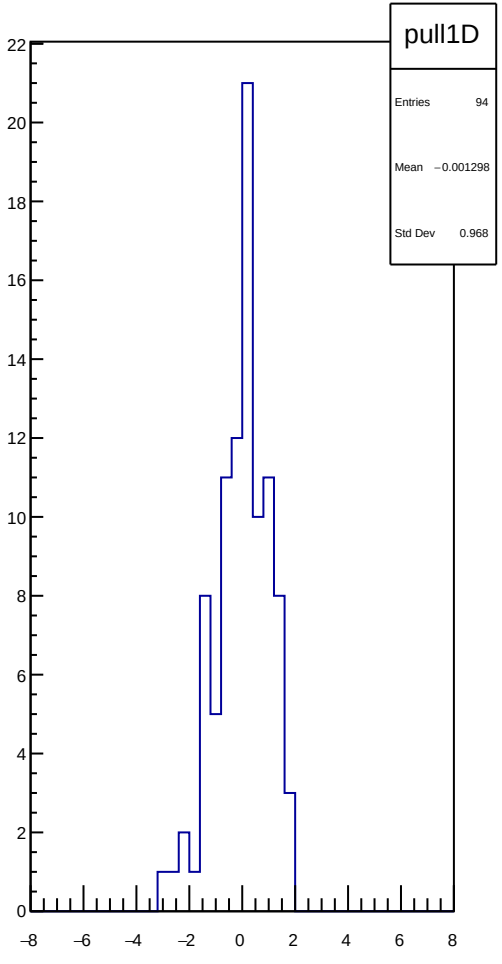

asym_us_avg_reg_correction_rms vs run
χ² / ndf 5724 / 93
p0 1028 ± 0.7687
1400
1300
1200
1100
1000
900

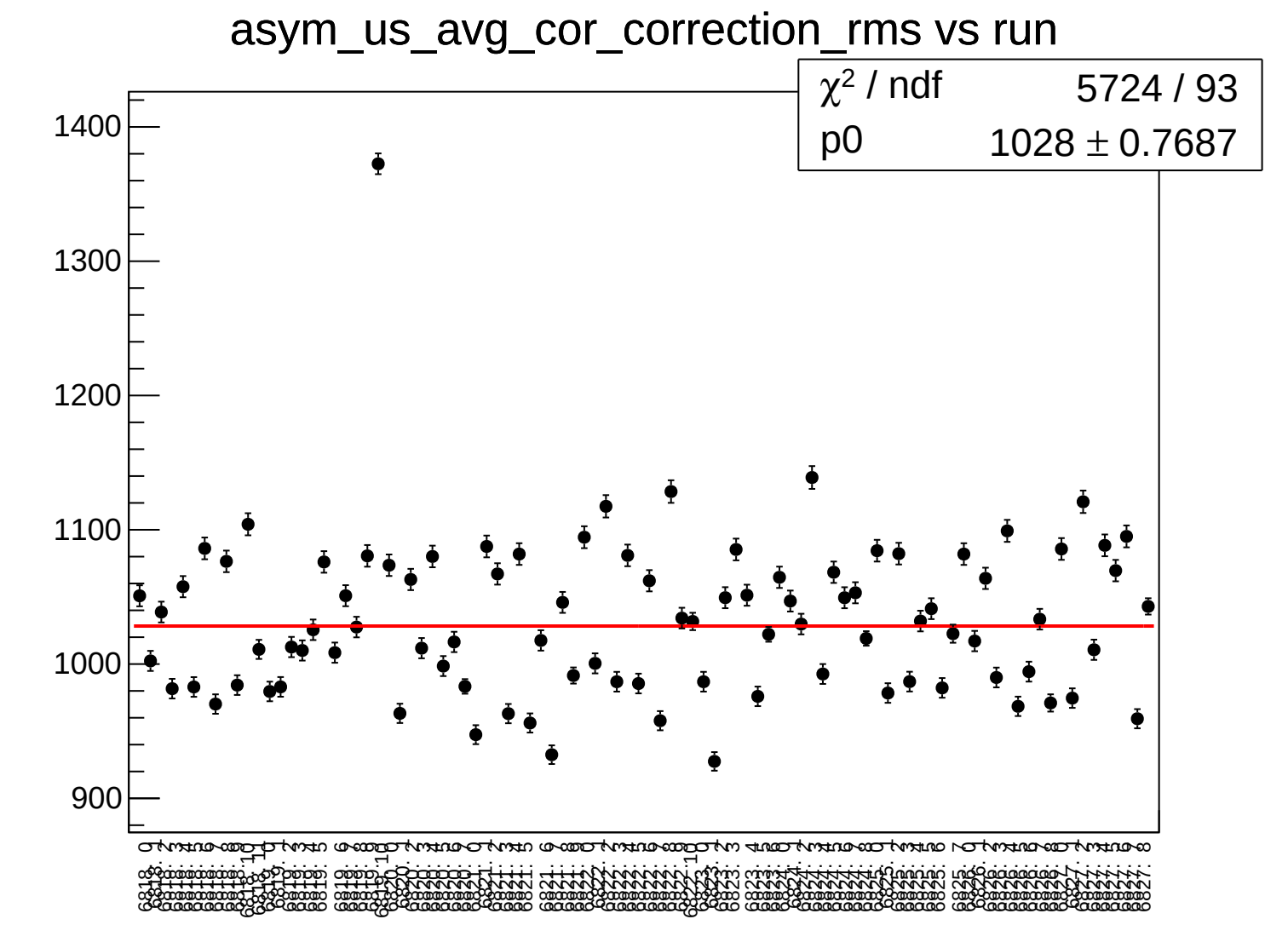

cor_asym_us_avg_mean vs run
χ² / ndf 81.07 / 93
p0 −2000 ± 816.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −99.63
Std Dev 0
2
1
0
−1
−2

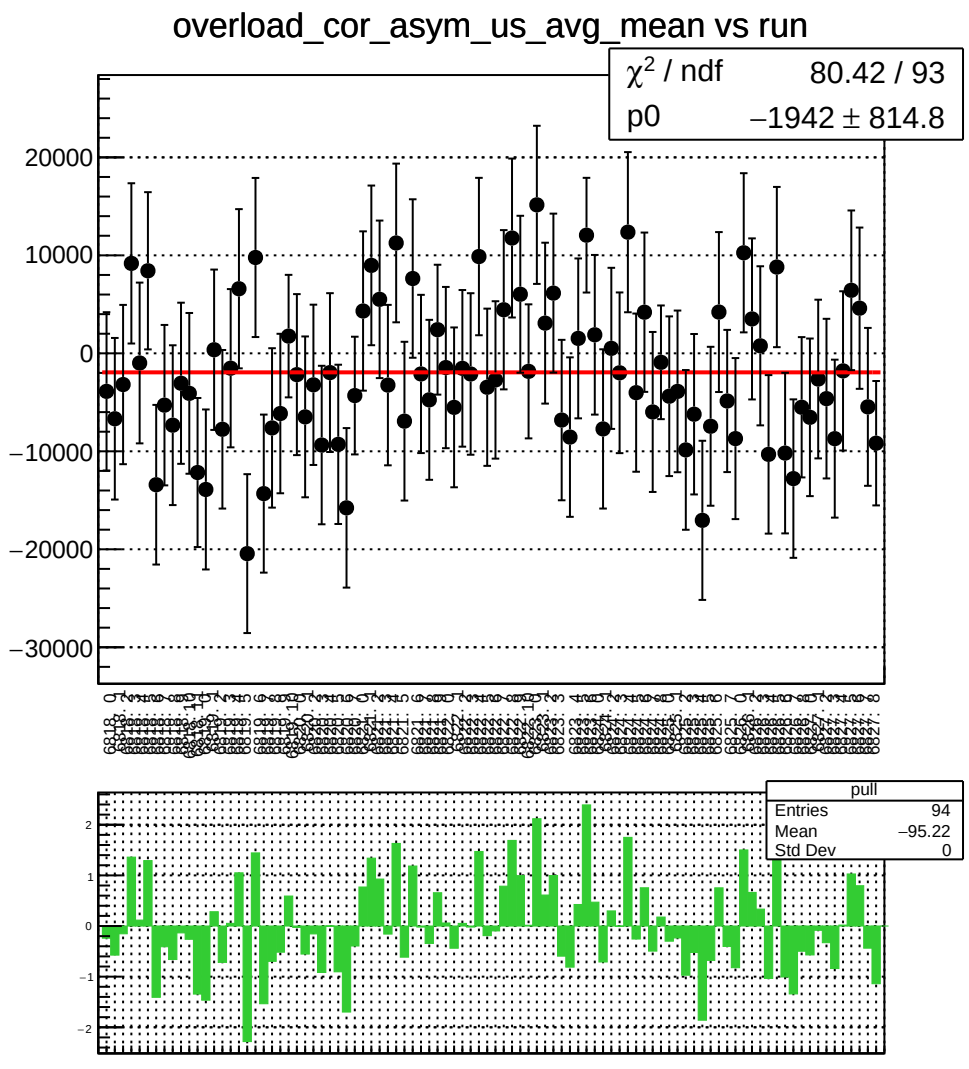

pull1D
Entries 94
Mean −0.008105
Std Dev 0.9286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

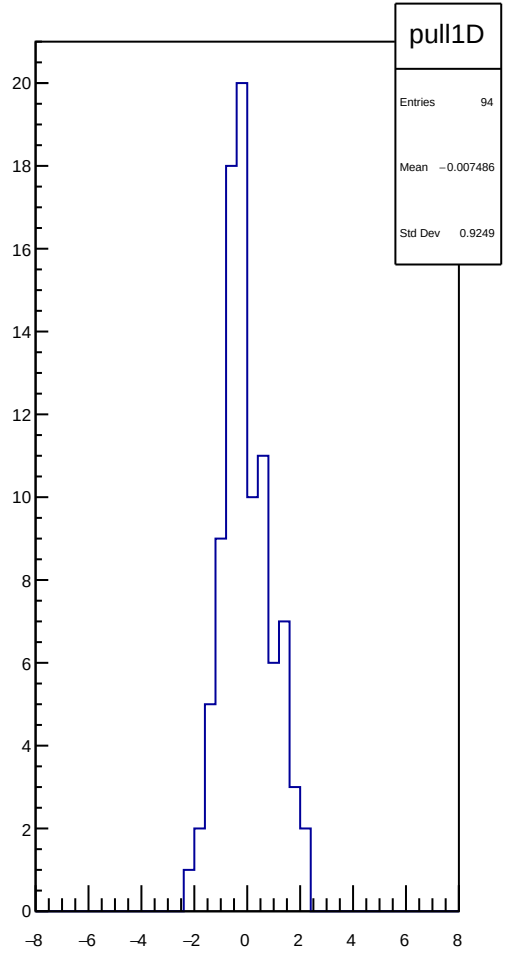

cor_asym_us_avg_rms vs run
χ² / ndf 97.05 / 93
p0 773.5 ± 0.5774
795
790
785
780
775
770
765
760
755

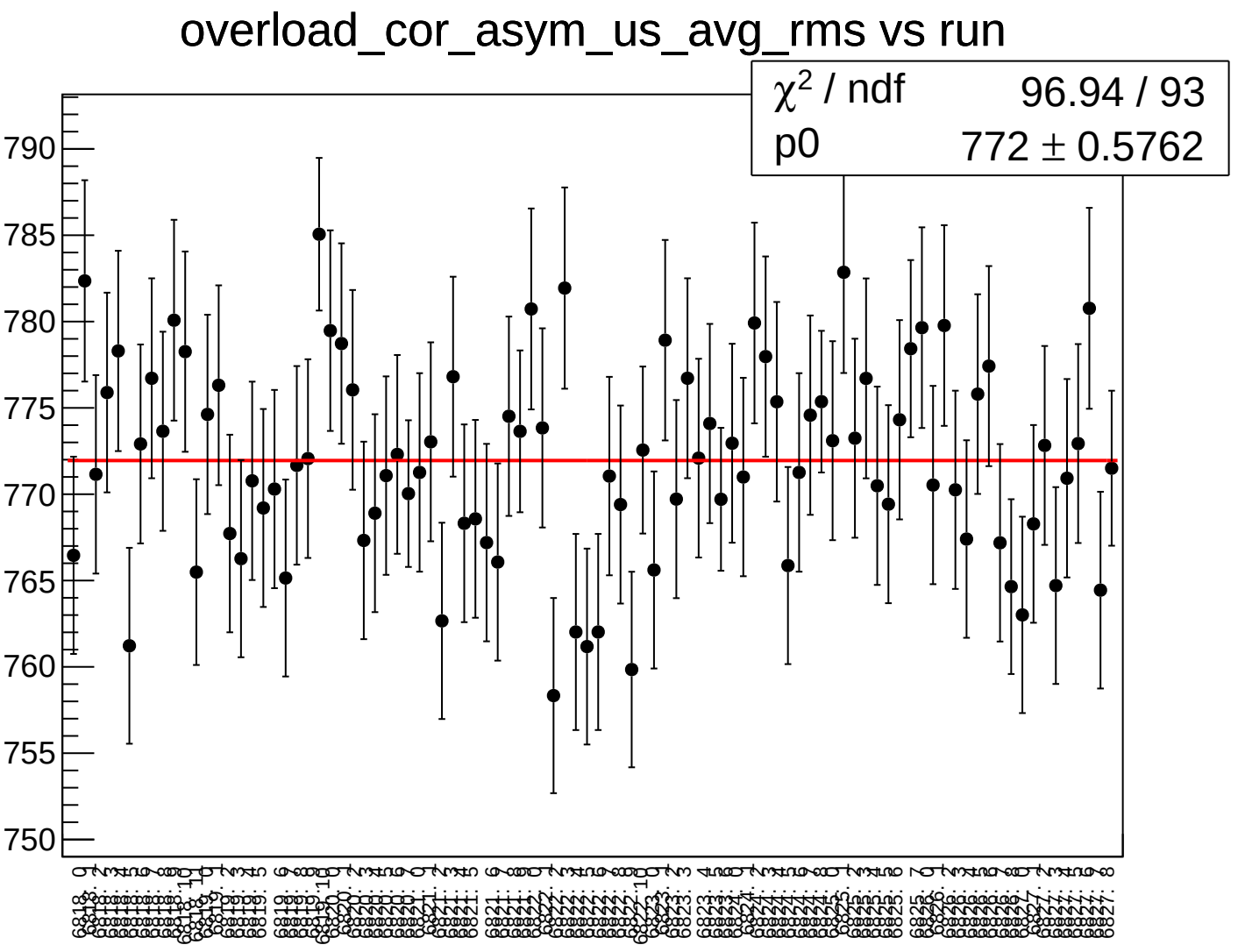

asym_us_avg_cor_correction_mean vs run
χ² / ndf 88.07 / 93
p0 342.8 ± 1087
pull
Entries 94
Mean −869.2
Std Dev 0

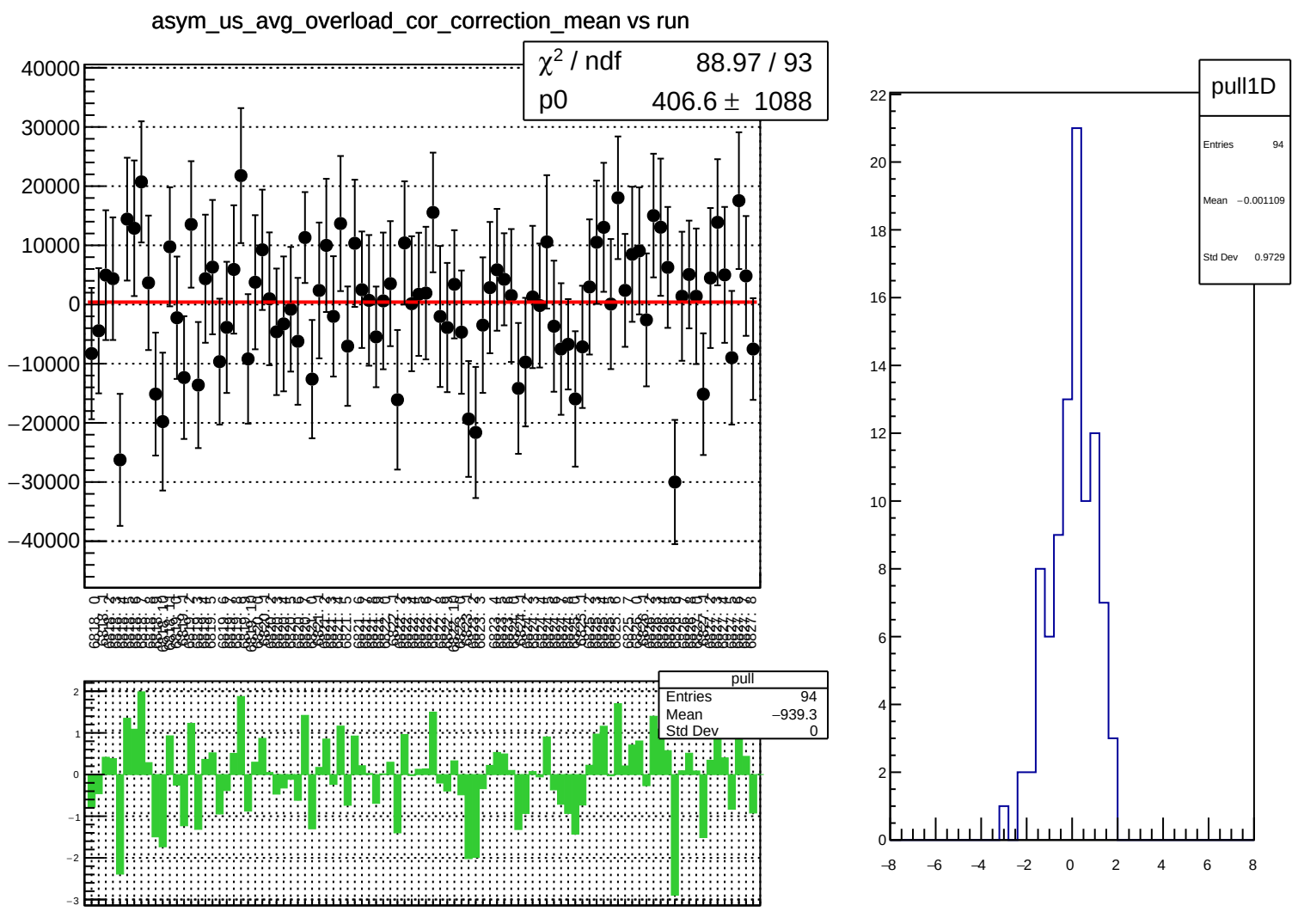

pull1D
Entries 94
Mean −0.001298
Std Dev 0.968

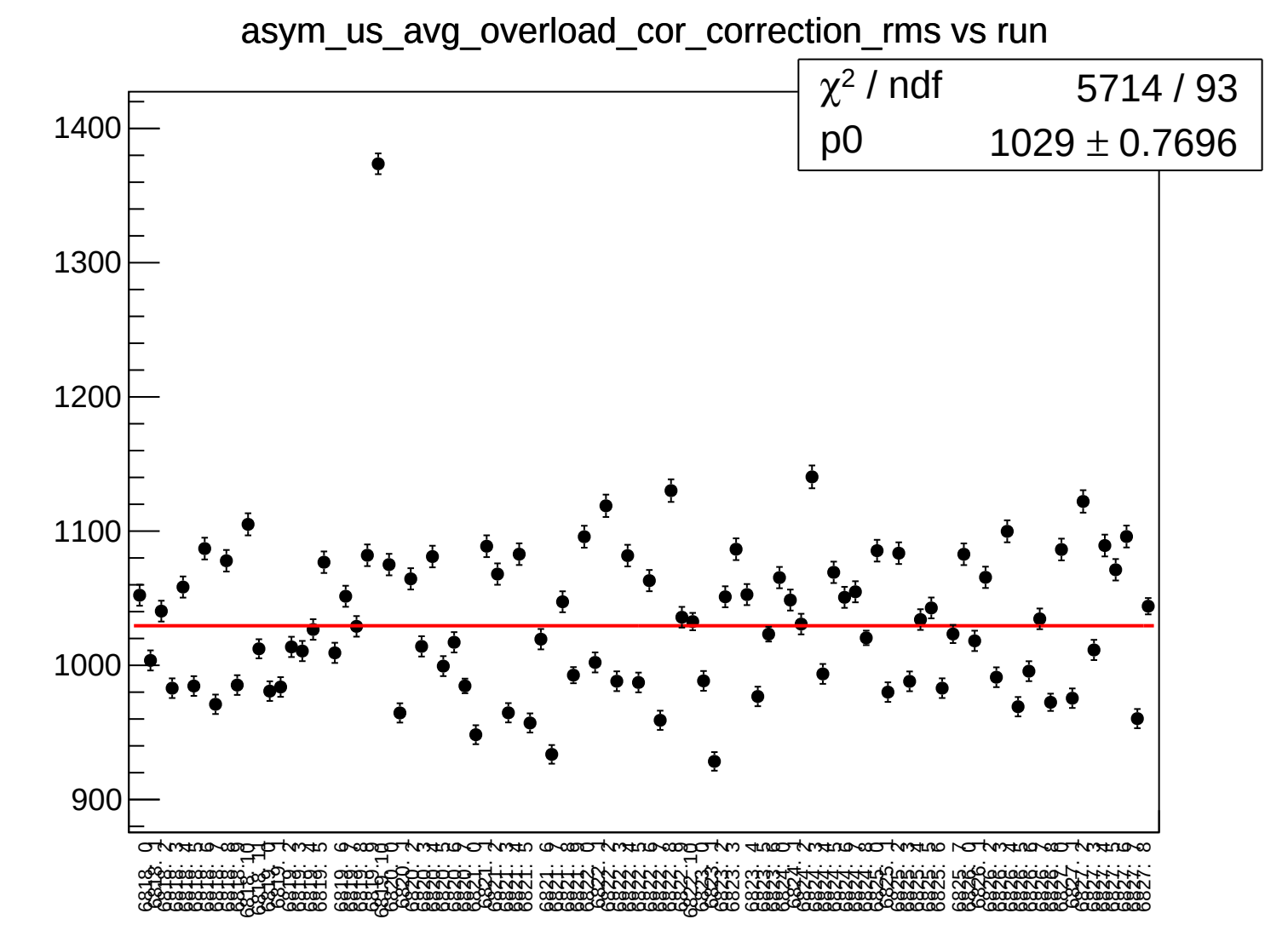

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5724 / 93
p0 1028 ± 0.7687
1400
1300
1200
1100
1000
900

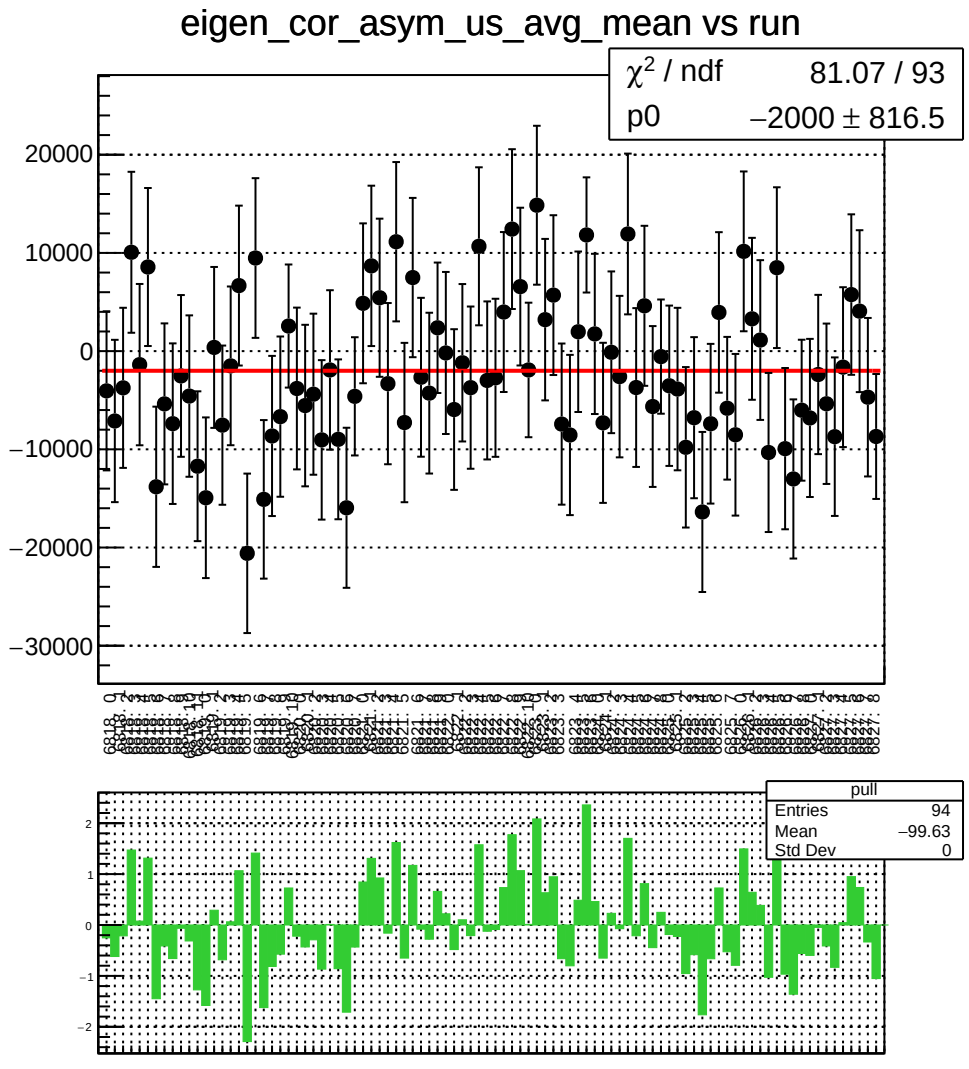

overload_cor_asym_us_avg_mean vs run
χ² / ndf 80.42 / 93
p0 −1942 ± 814.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −95.22
Std Dev 0
2
1
0
−1
−2

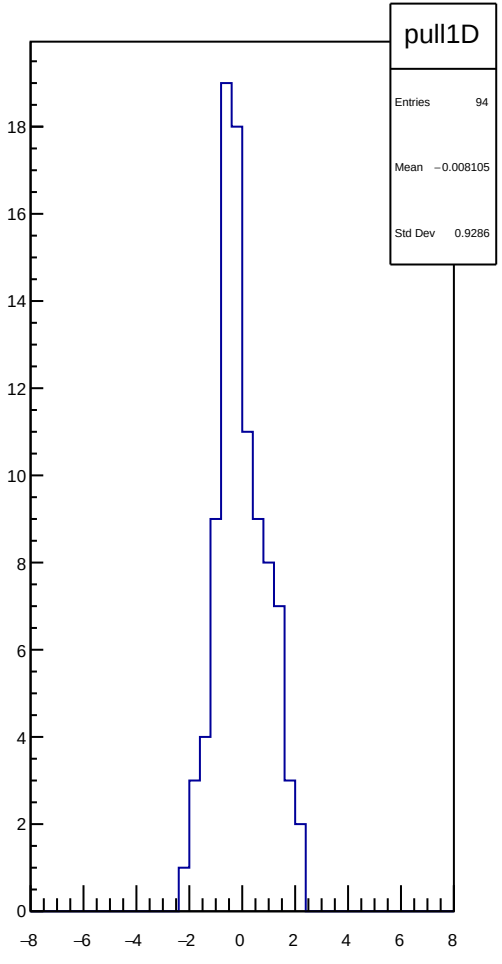

pull1D
Entries 94
Mean −0.007486
Std Dev 0.9249
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

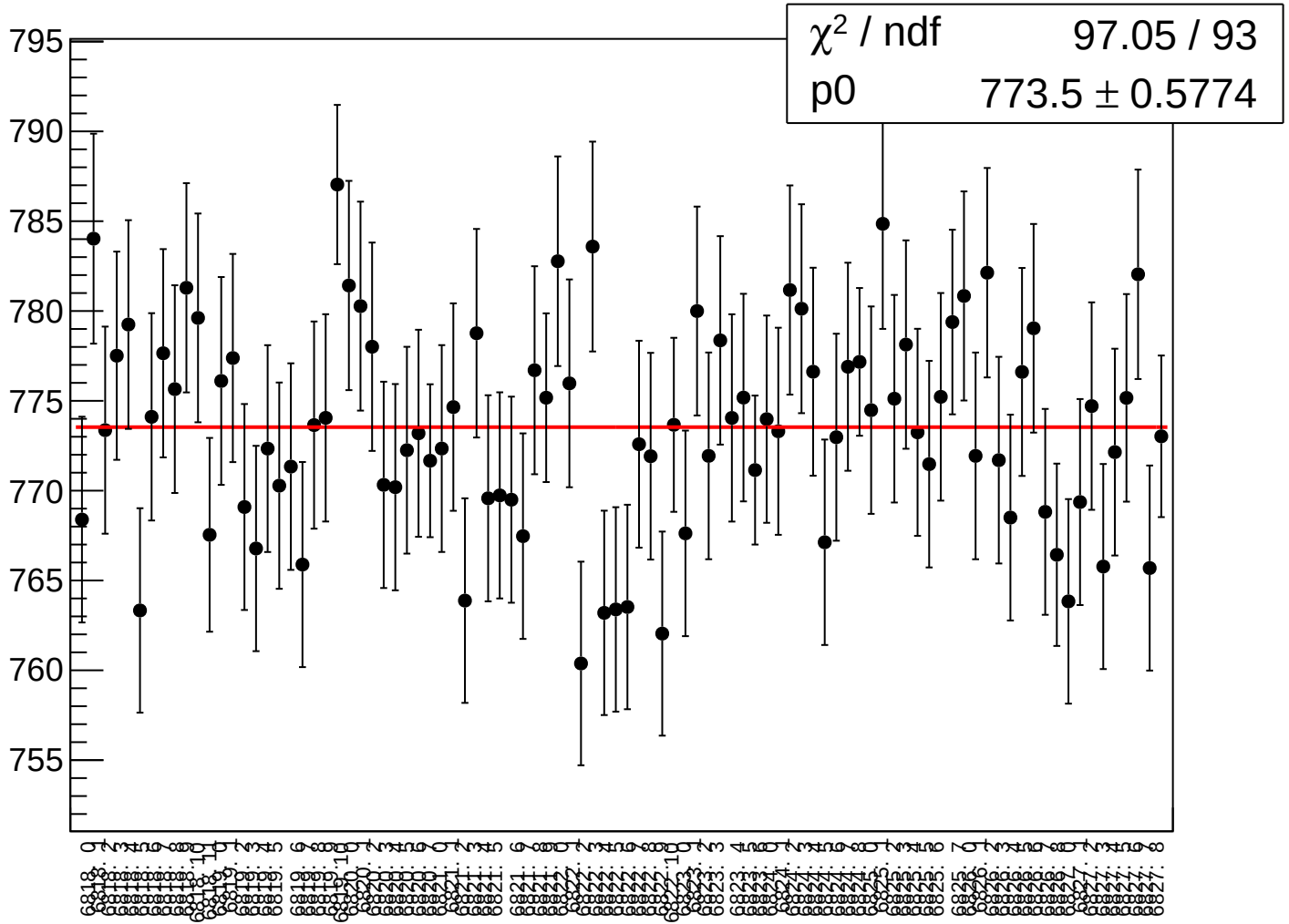

overload_cor_asym_us_avg_rms vs run
χ² / ndf 96.94 / 93
p0 772 ± 0.5762
790
785
780
775
770
765
760
755
750

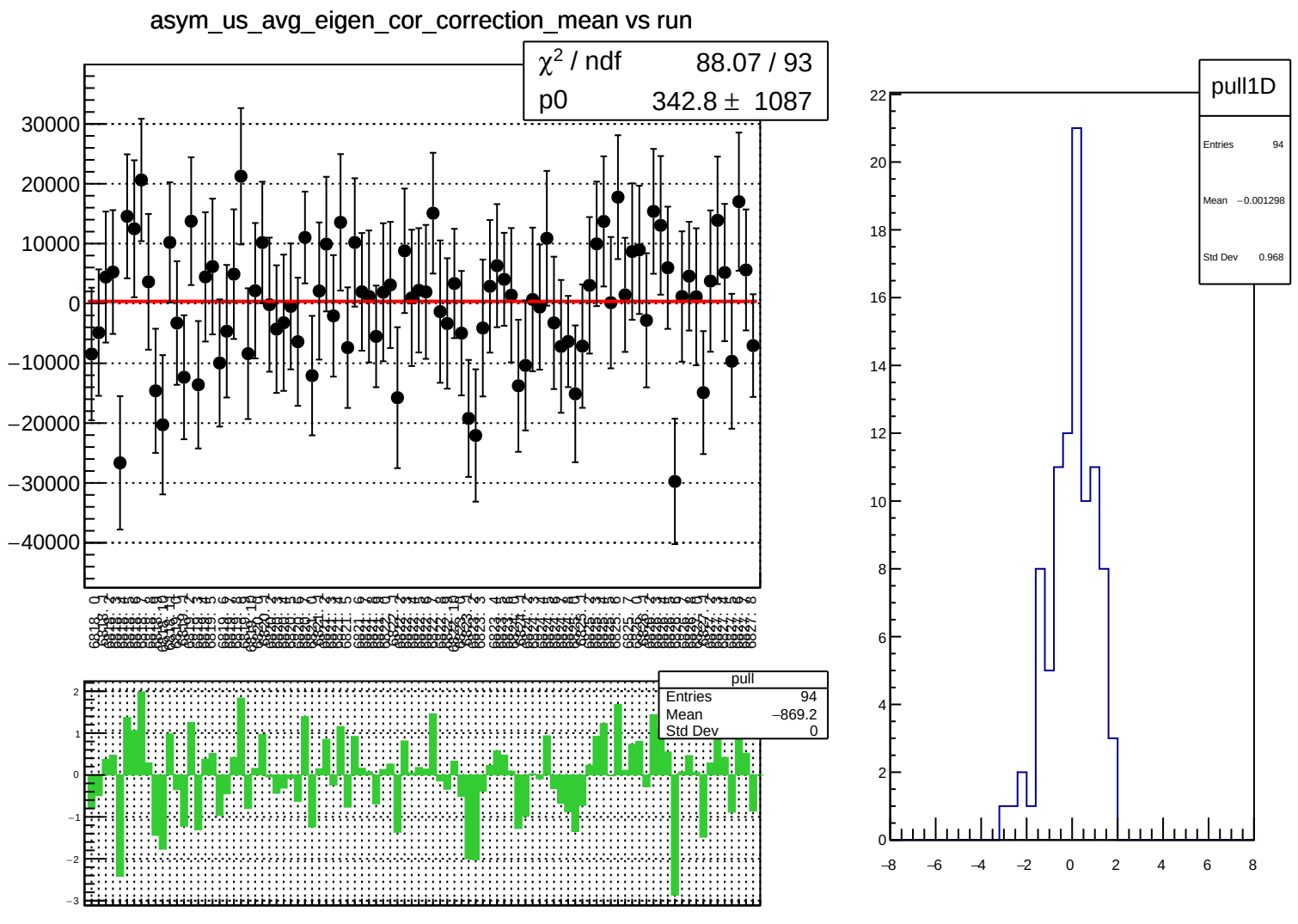

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 88.97 / 93
p0 406.6 ± 1088
pull
Entries 94
Mean −939.3
Std Dev 0
pull1D
Entries 94
Mean −0.001109
Std Dev 0.9729

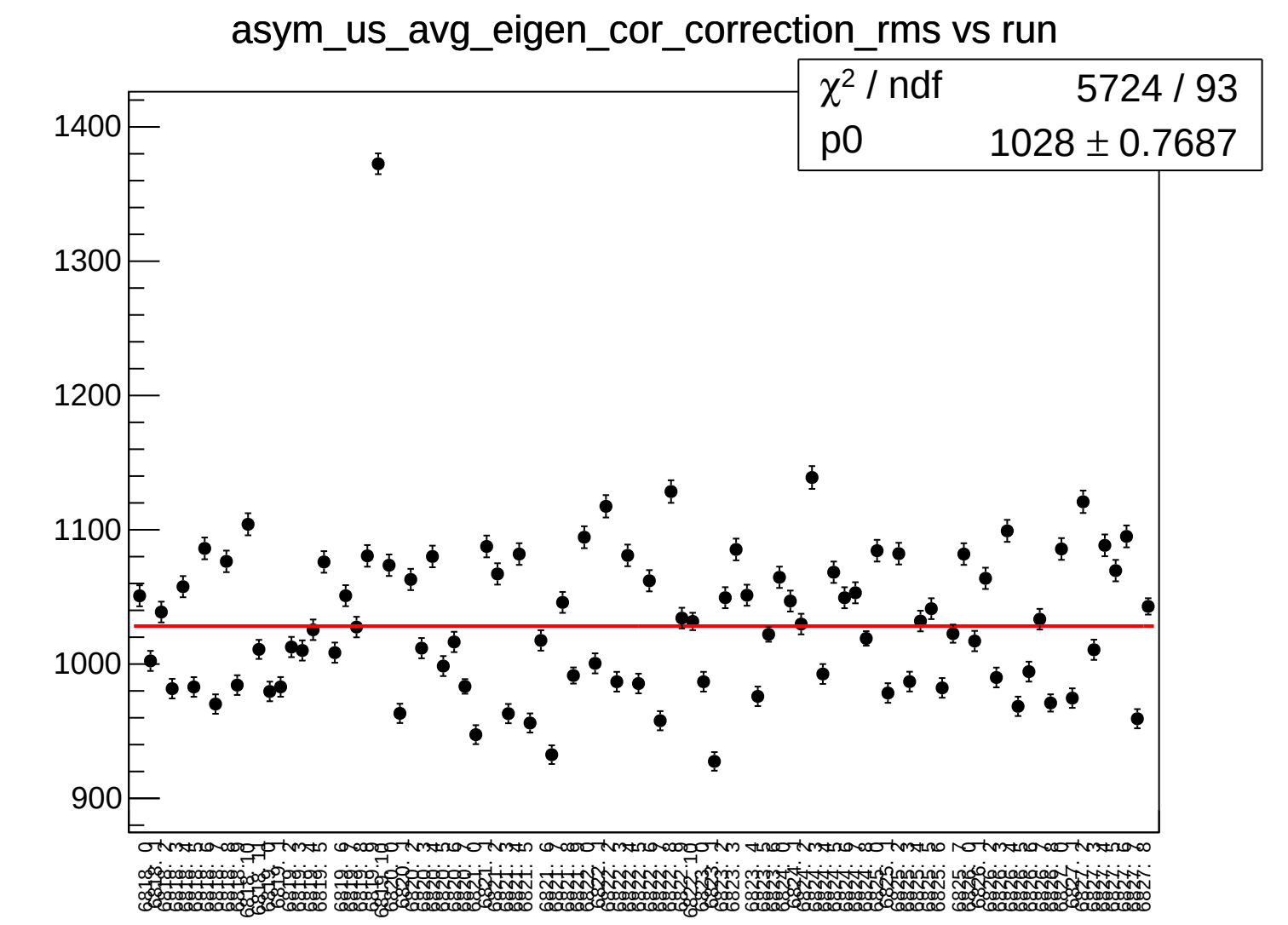

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5714 / 93
p0 1029 ± 0.7696
1400
1300
1200
1100
1000
900

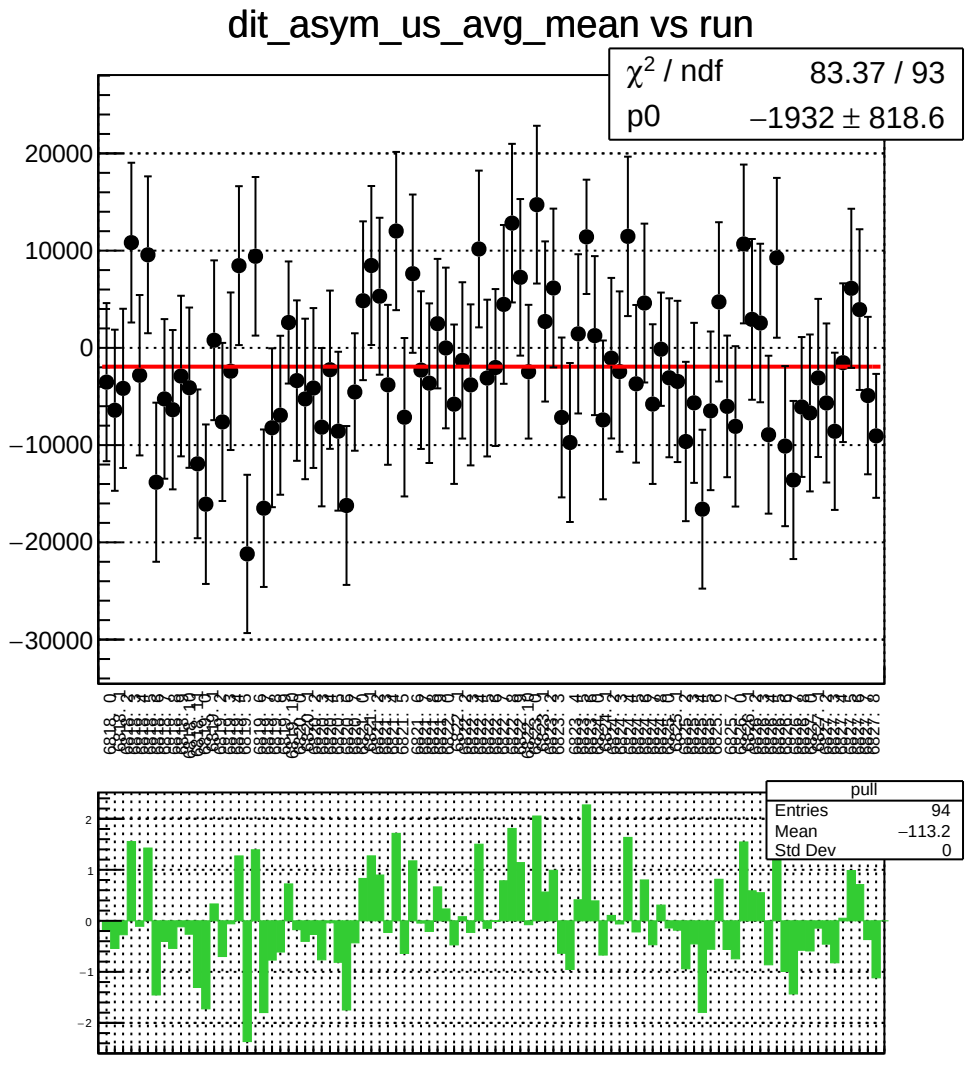

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 81.07 / 93
p0 −2000 ± 816.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −99.63
Std Dev 0
2
1
0
−1
−2

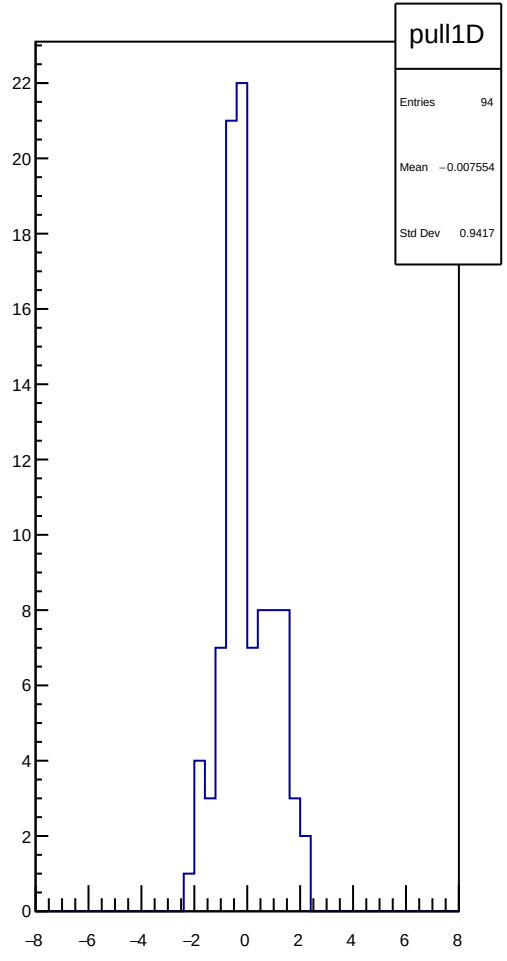

pull1D
Entries 94
Mean −0.008105
Std Dev 0.9286
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

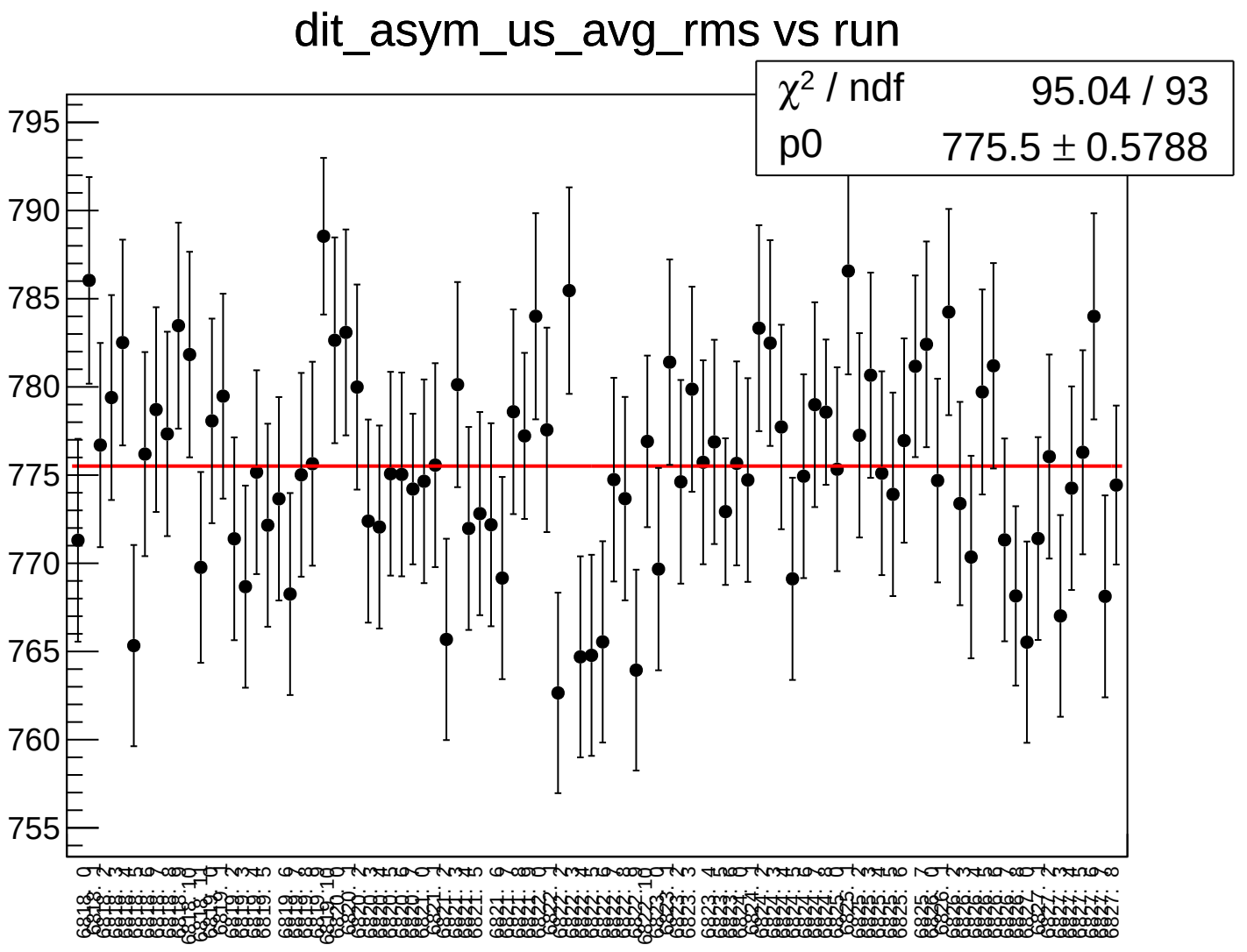

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 97.05 / 93
p0 773.5 ± 0.5774
795
790
785
780
775
770
765
760
755

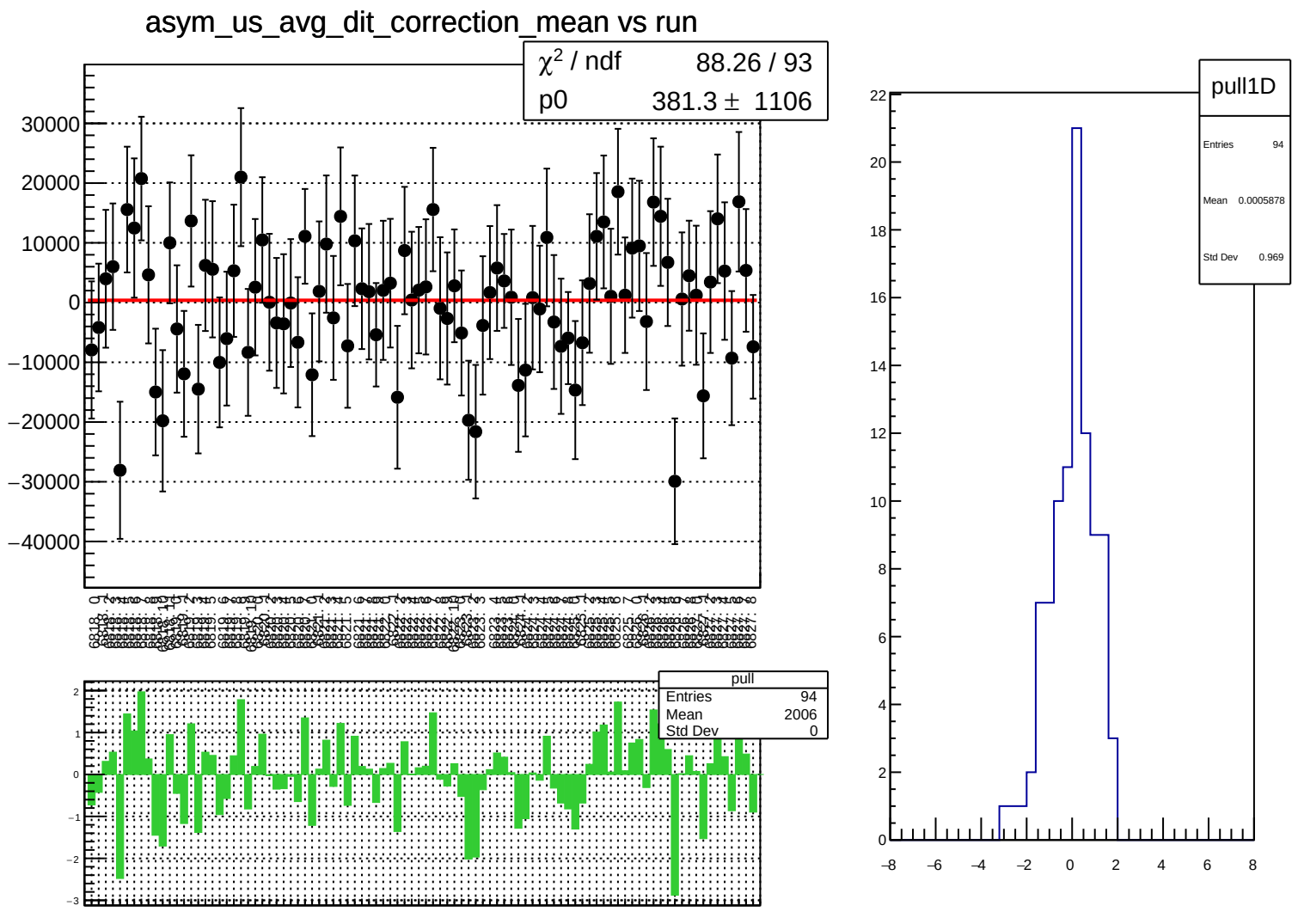

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.07 / 93
p0 342.8 ± 1087
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −869.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.001298
Std Dev 0.968
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

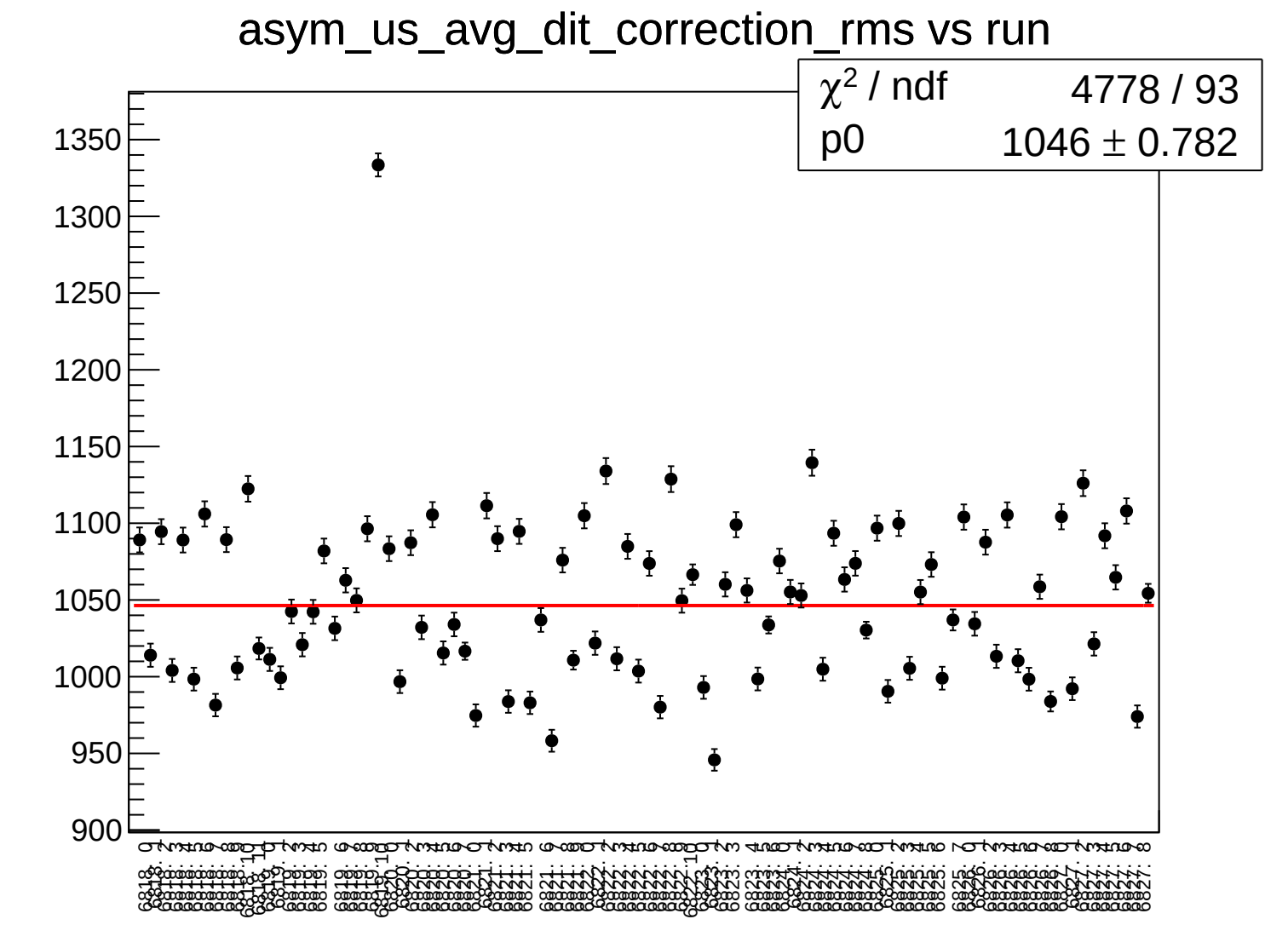

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5724 / 93
p0 1028 ± 0.7687
1400
1300
1200
1100
1000
900

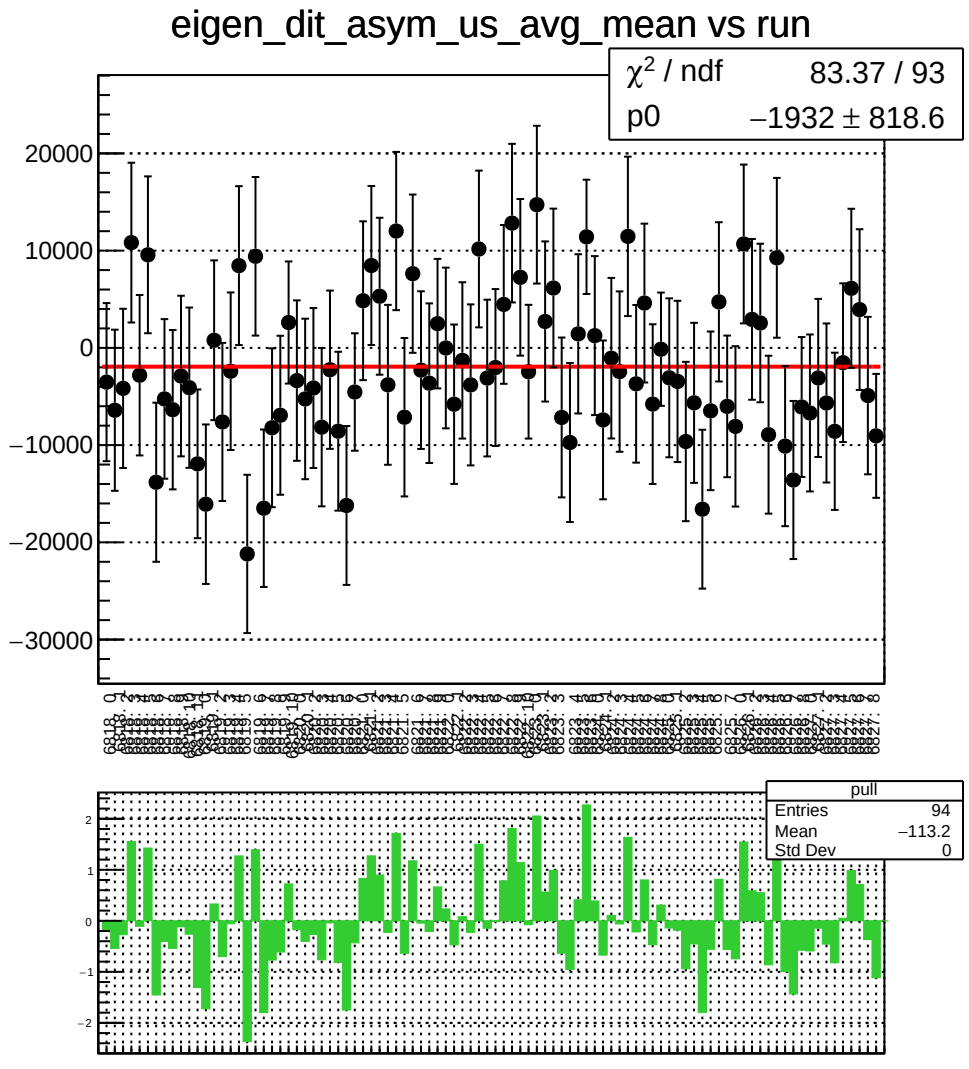

dit_asym_us_avg_mean vs run
χ² / ndf 83.37 / 93
p0 −1932 ± 818.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −113.2
Std Dev 0
2
1
0
−1
−2

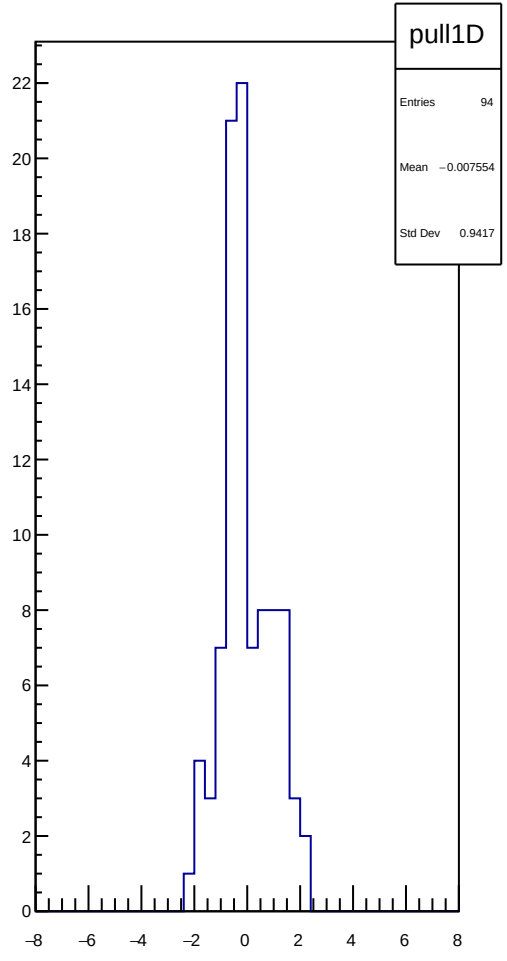

pull1D
Entries 94
Mean −0.007554
Std Dev 0.9417
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

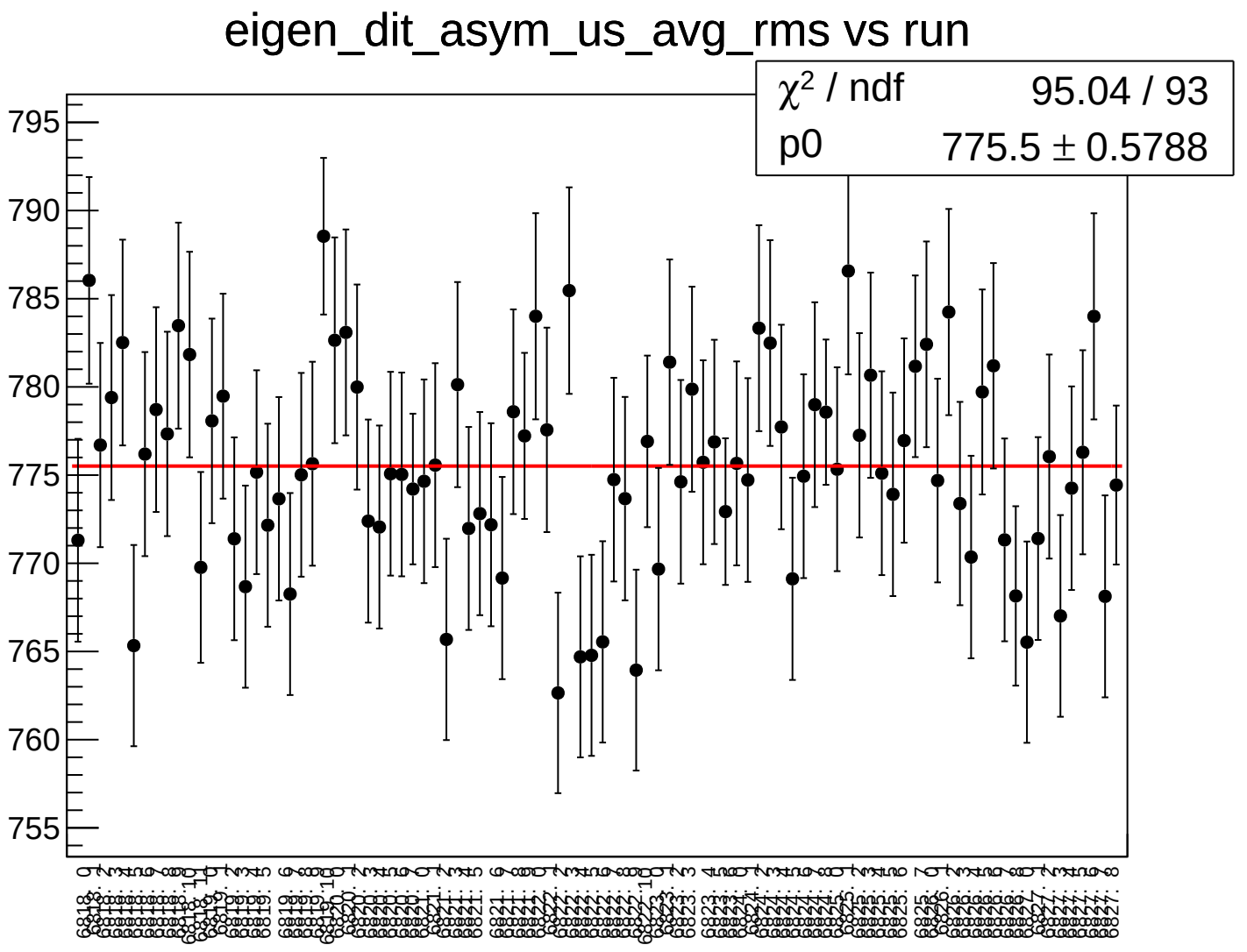

dit_asym_us_avg_rms vs run
χ² / ndf 95.04 / 93
p0 775.5 ± 0.5788
795
790
785
780
775
770
765
760
755

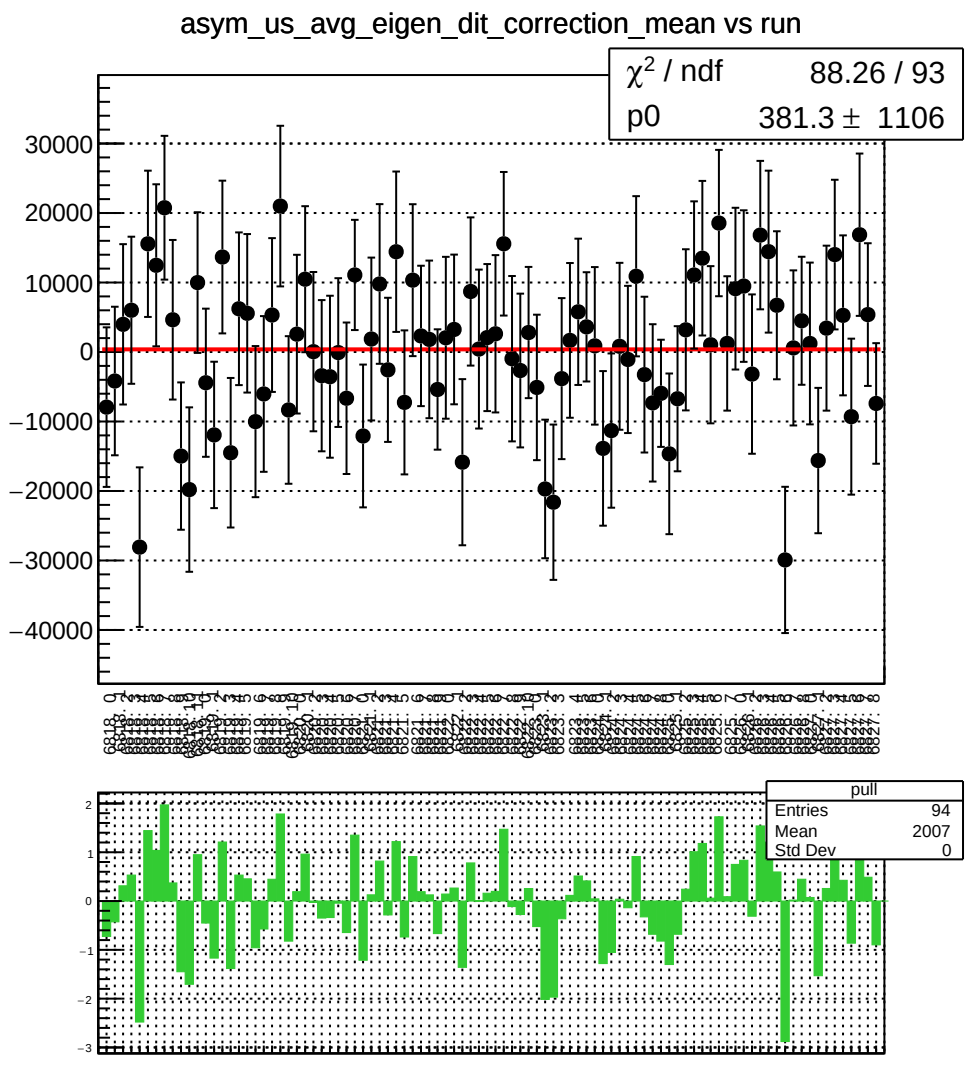

asym_us_avg_dit_correction_mean vs run
χ² / ndf 88.26 / 93
p0 381.3 ± 1106
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 2006
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0005878
Std Dev 0.969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

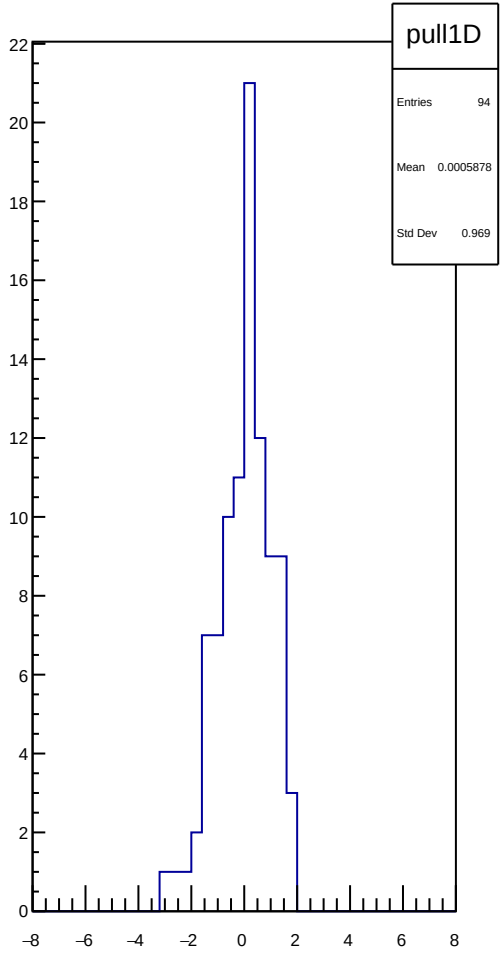

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4778 / 93
p0 1046 ± 0.782
1350
1300
1250
1200
1150
1100
1050
1000
950
900

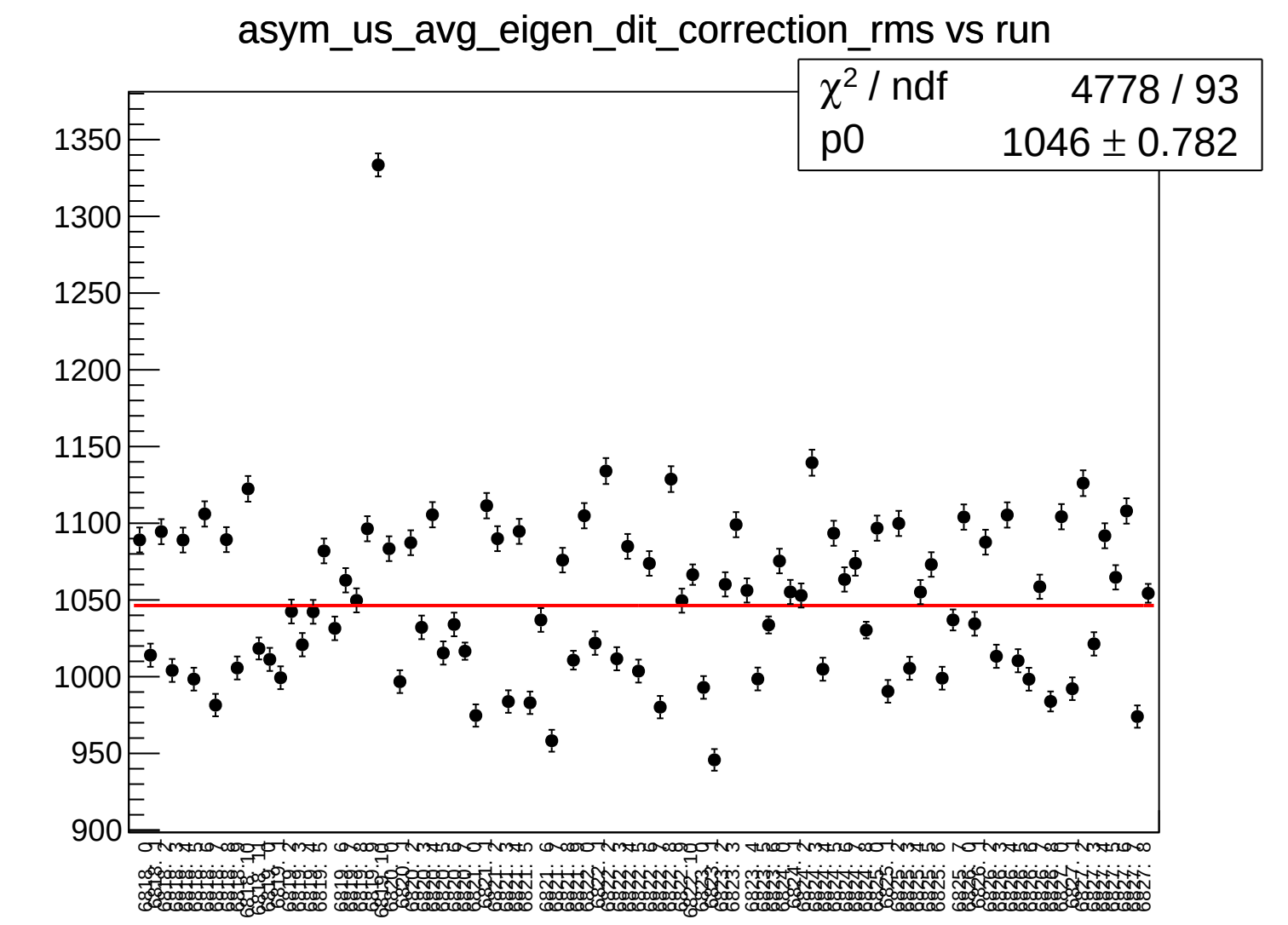

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 83.37 / 93
p0 −1932 ± 818.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −113.2
Std Dev 0
2
1
0
−1
−2

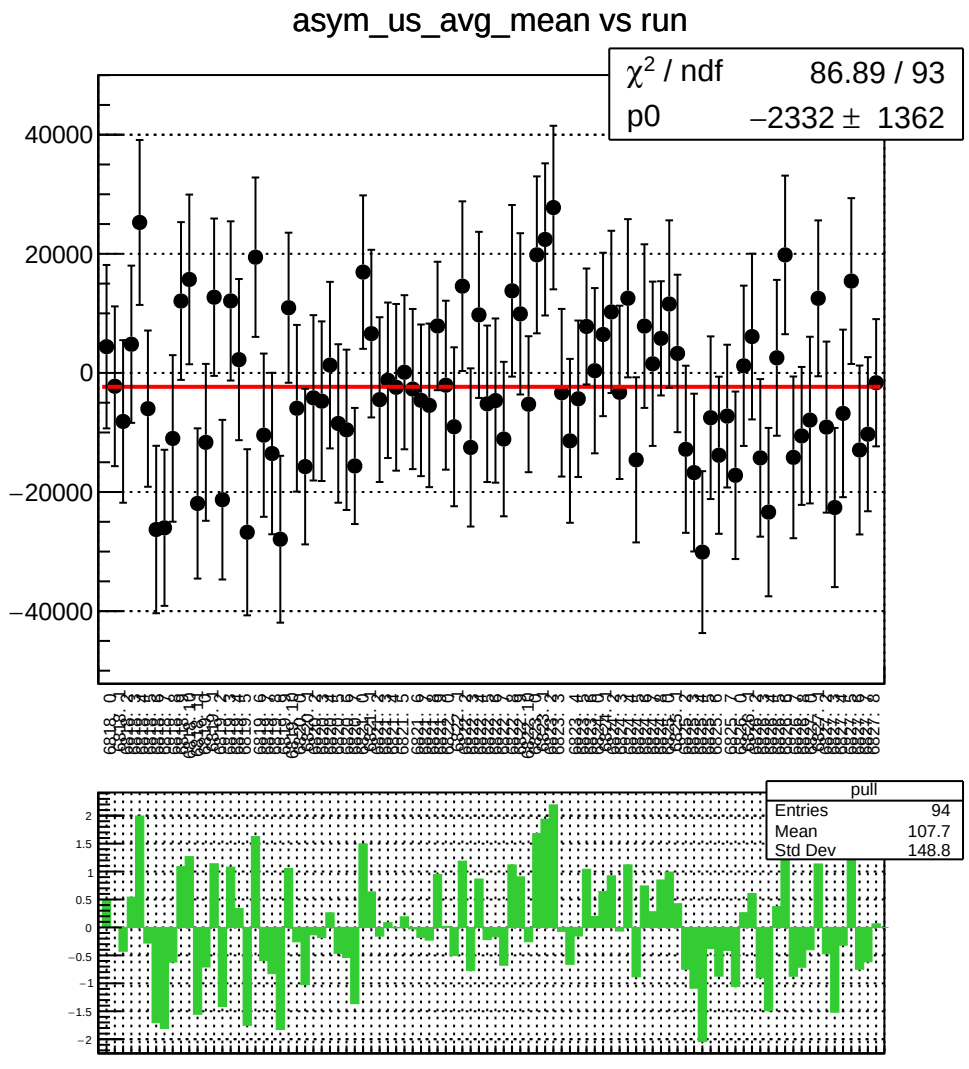

pull1D
Entries 94
Mean −0.007554
Std Dev 0.9417
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

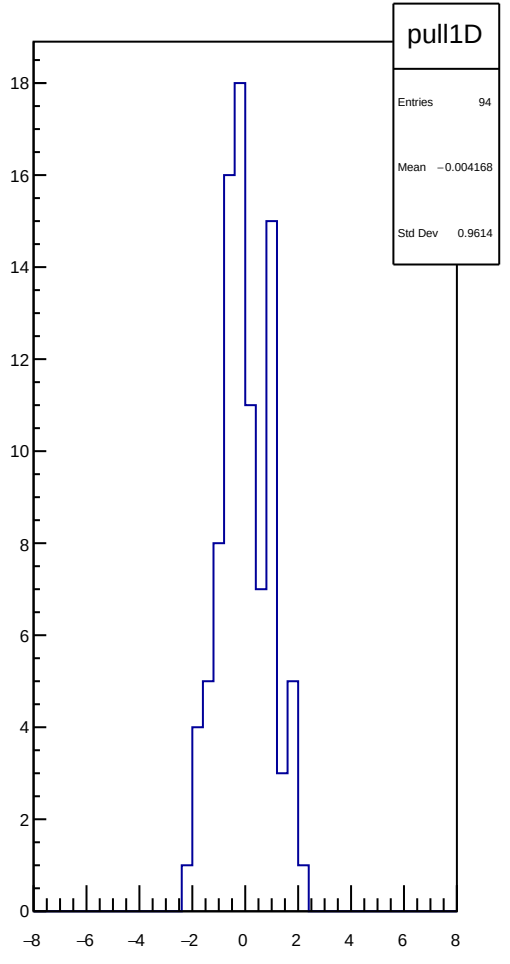

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 95.04 / 93
p0 775.5 ± 0.5788
795
790
785
780
775
770
765
760
755


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.26 / 93
p0 381.3 ± 1106
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 2007
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 94
Mean 0.0005878
Std Dev 0.969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4778 / 93
p0 1046 ± 0.782
1350
1300
1250
1200
1150
1100
1050
1000
950
900


asym_us_avg_mean vs run
χ² / ndf 86.89 / 93
p0 −2332 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 107.7
Std Dev 148.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 94
Mean −0.004168
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
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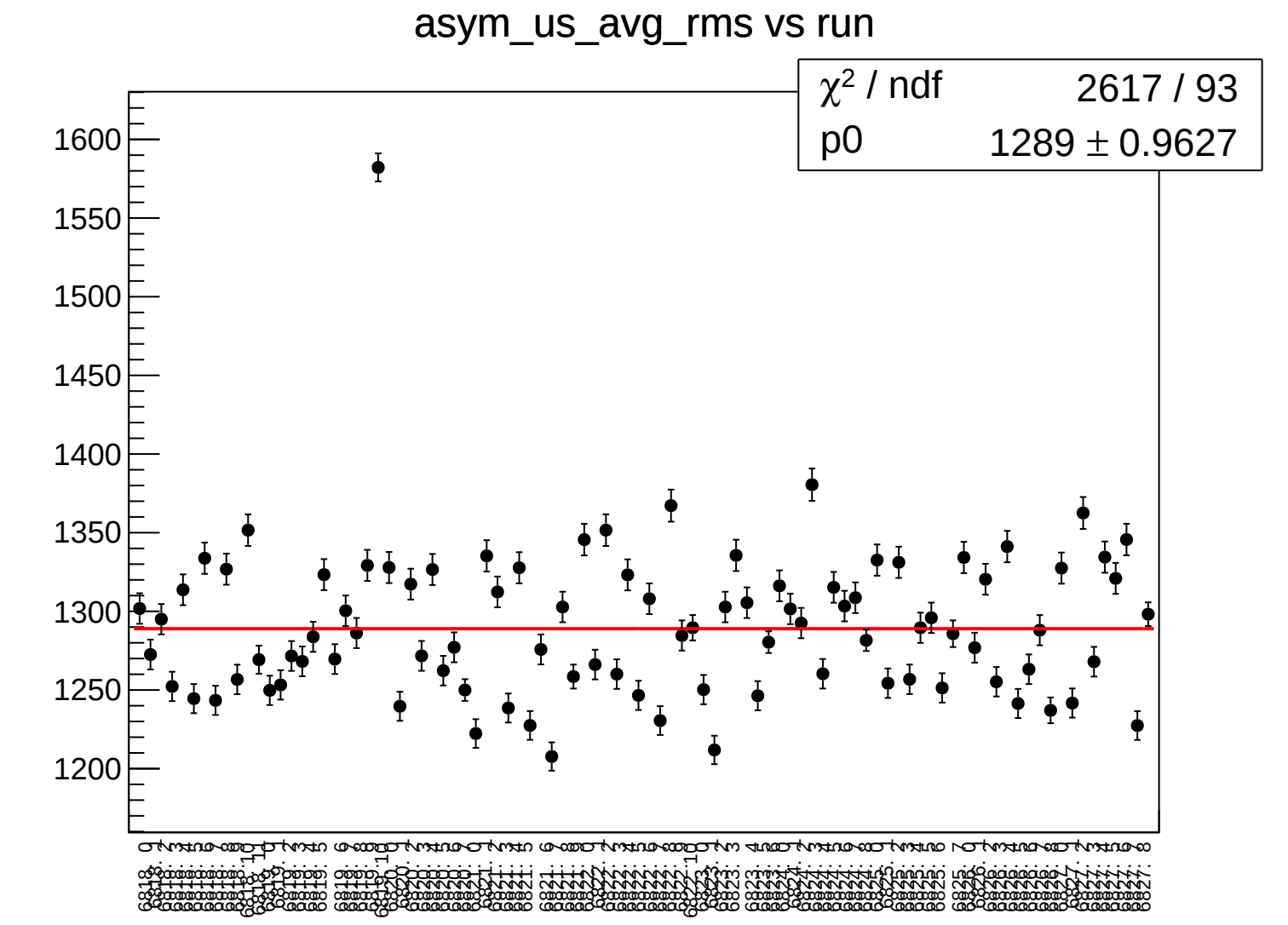
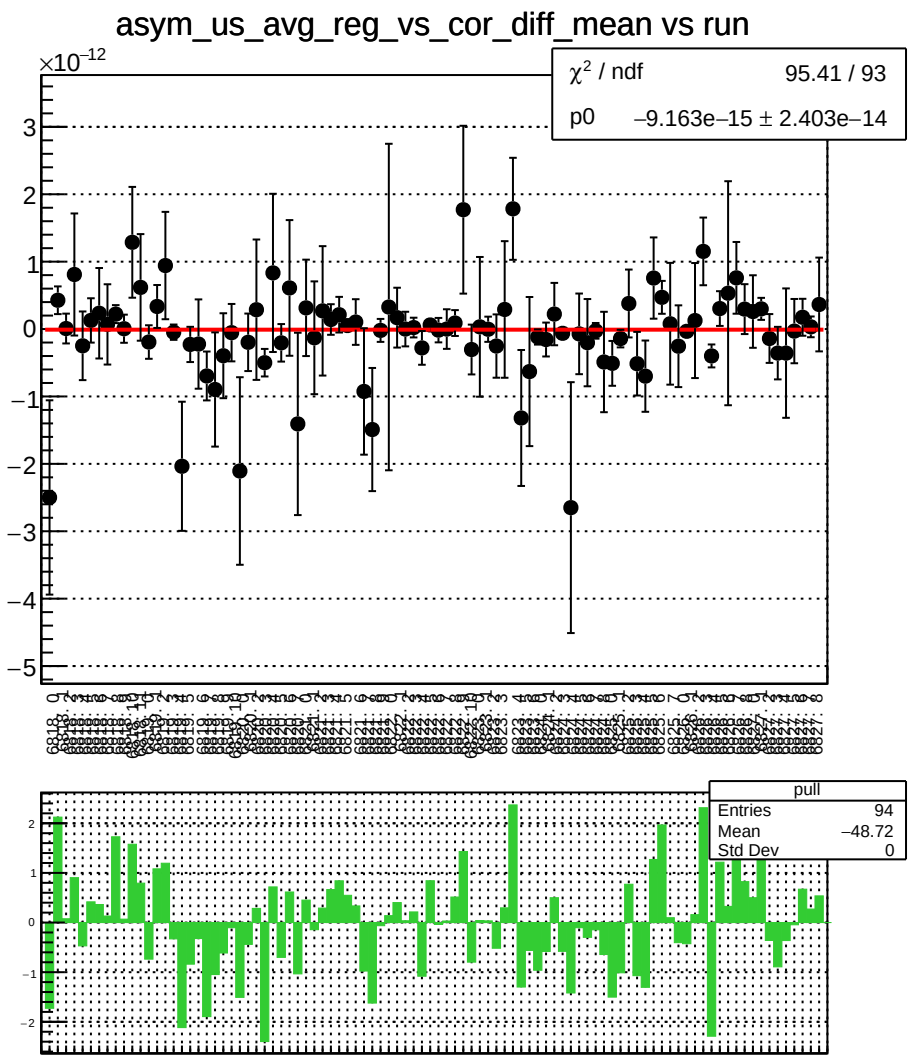
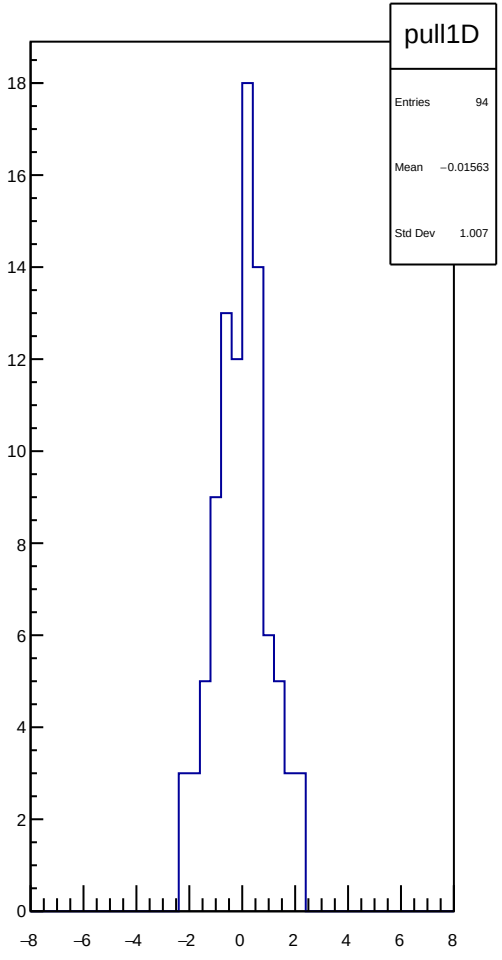
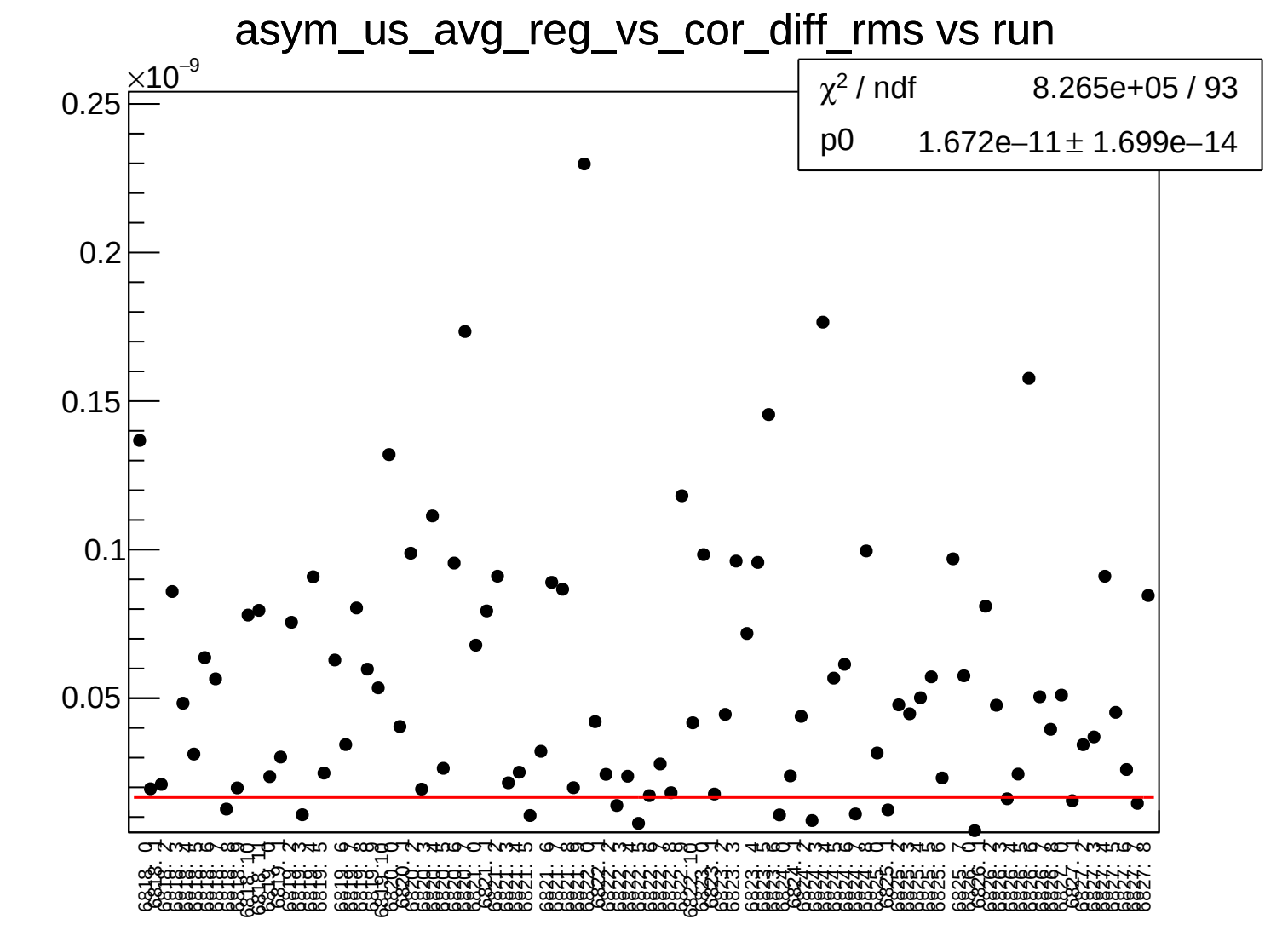
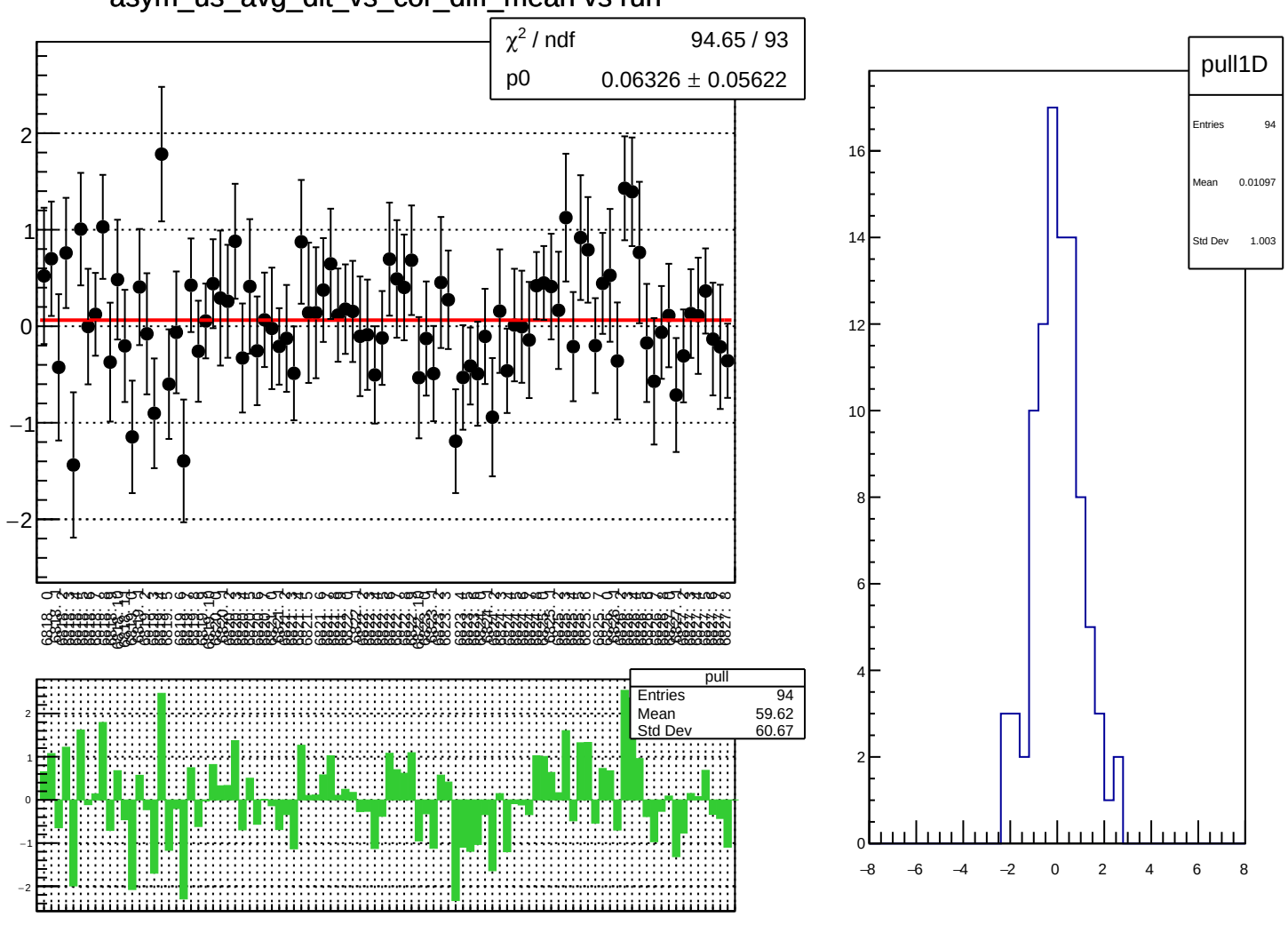
2
4
6
8

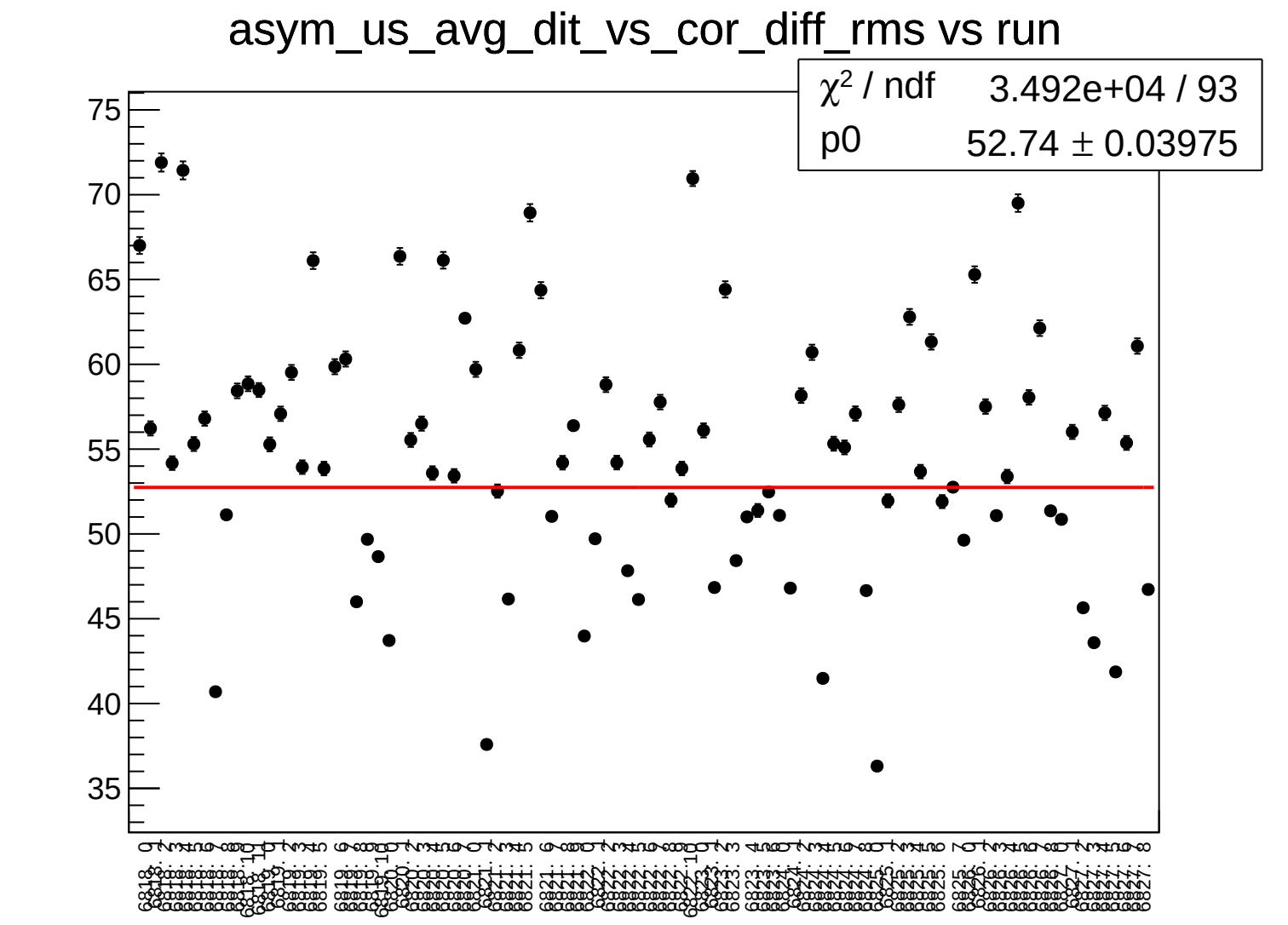

asym_us_avg_rms vs run
χ² / ndf 2617 / 93
p0 1289 ± 0.9627
1600
1550
1500
1450
1400
1350
1300
1250
1200

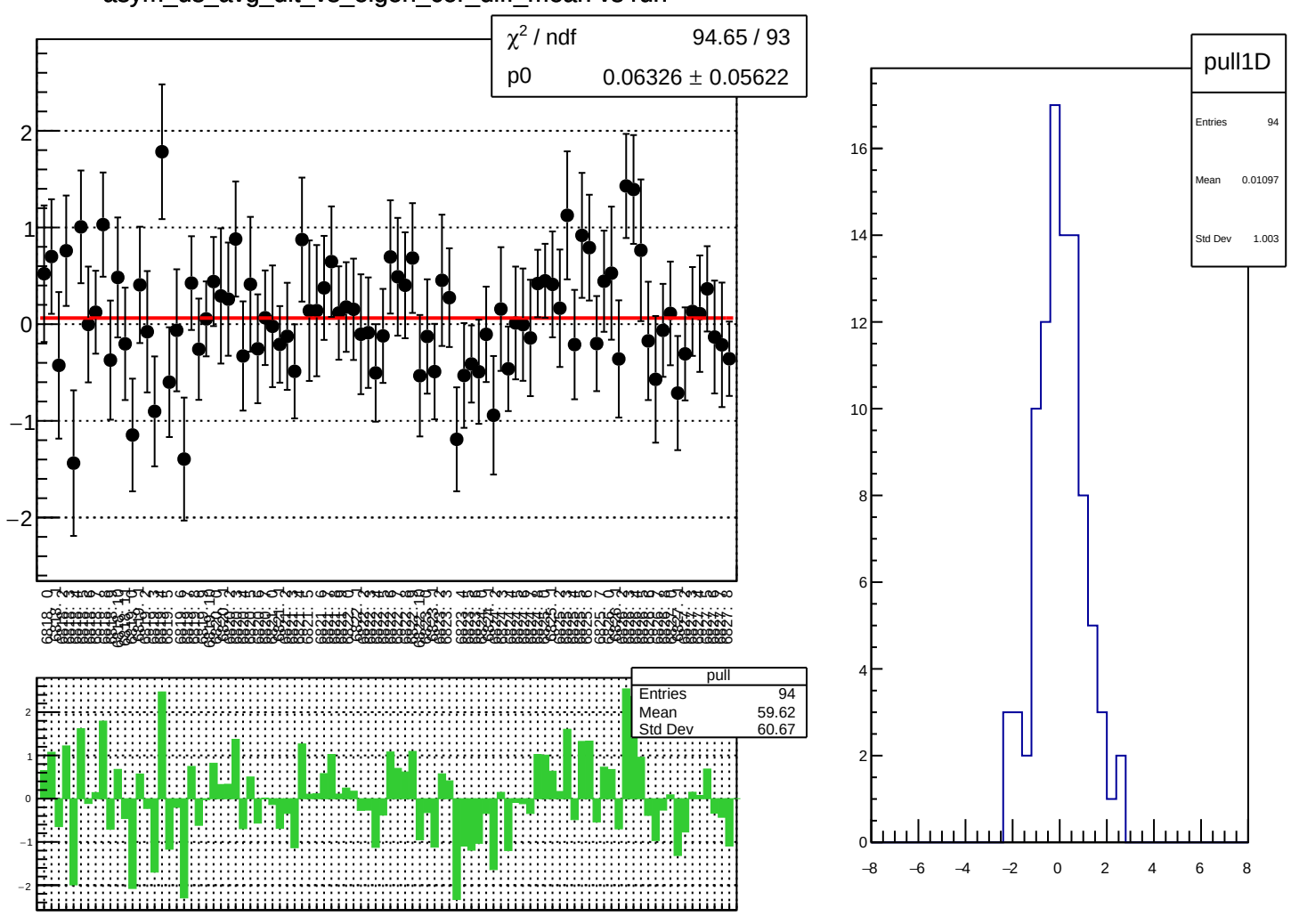

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.41 / 93
p0 −9.163e−15 ± 2.403e−14
pull
Entries 94
Mean −48.72
Std Dev 0

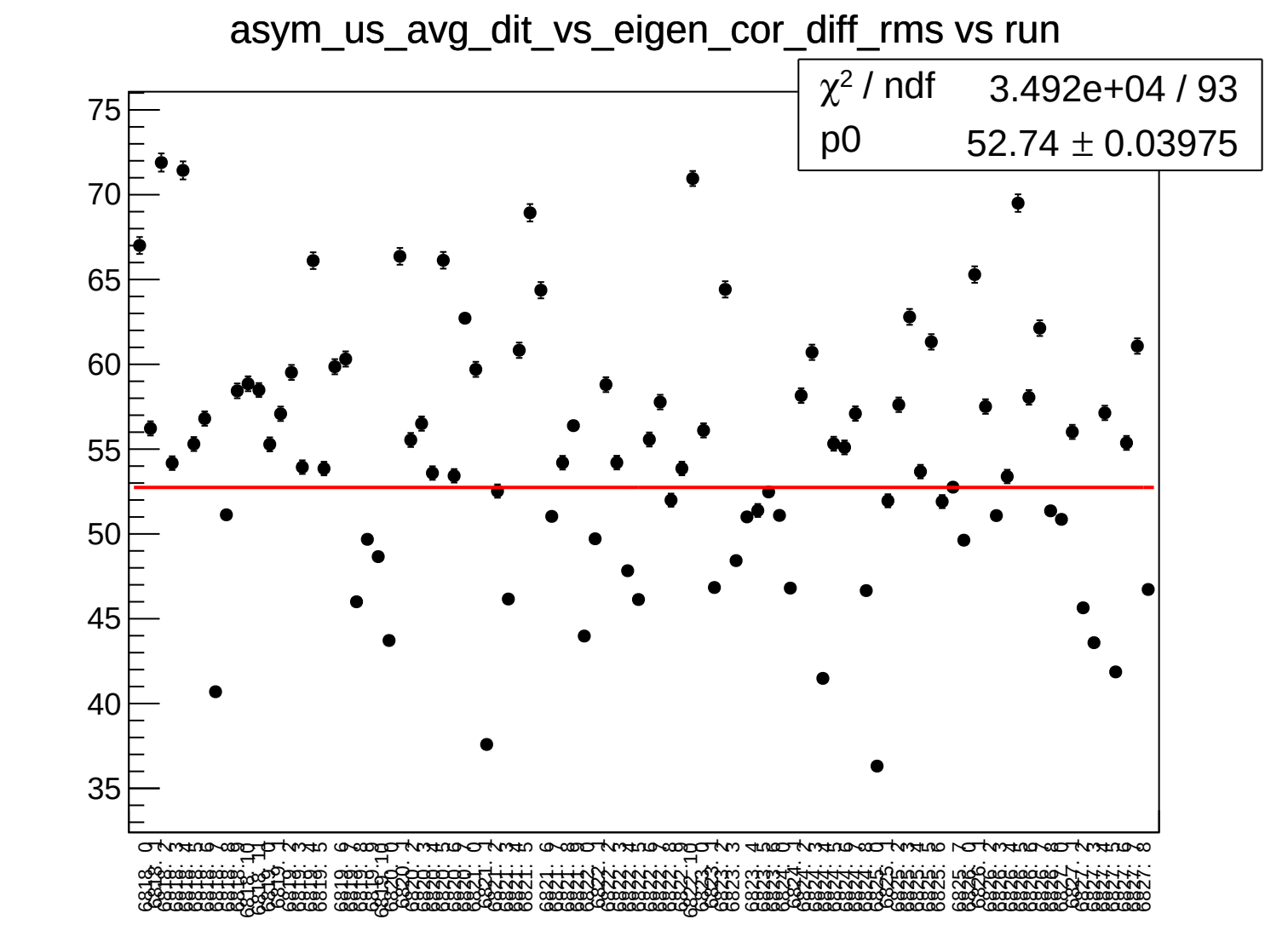

pull1D
Entries 94
Mean −0.01563
Std Dev 1.007

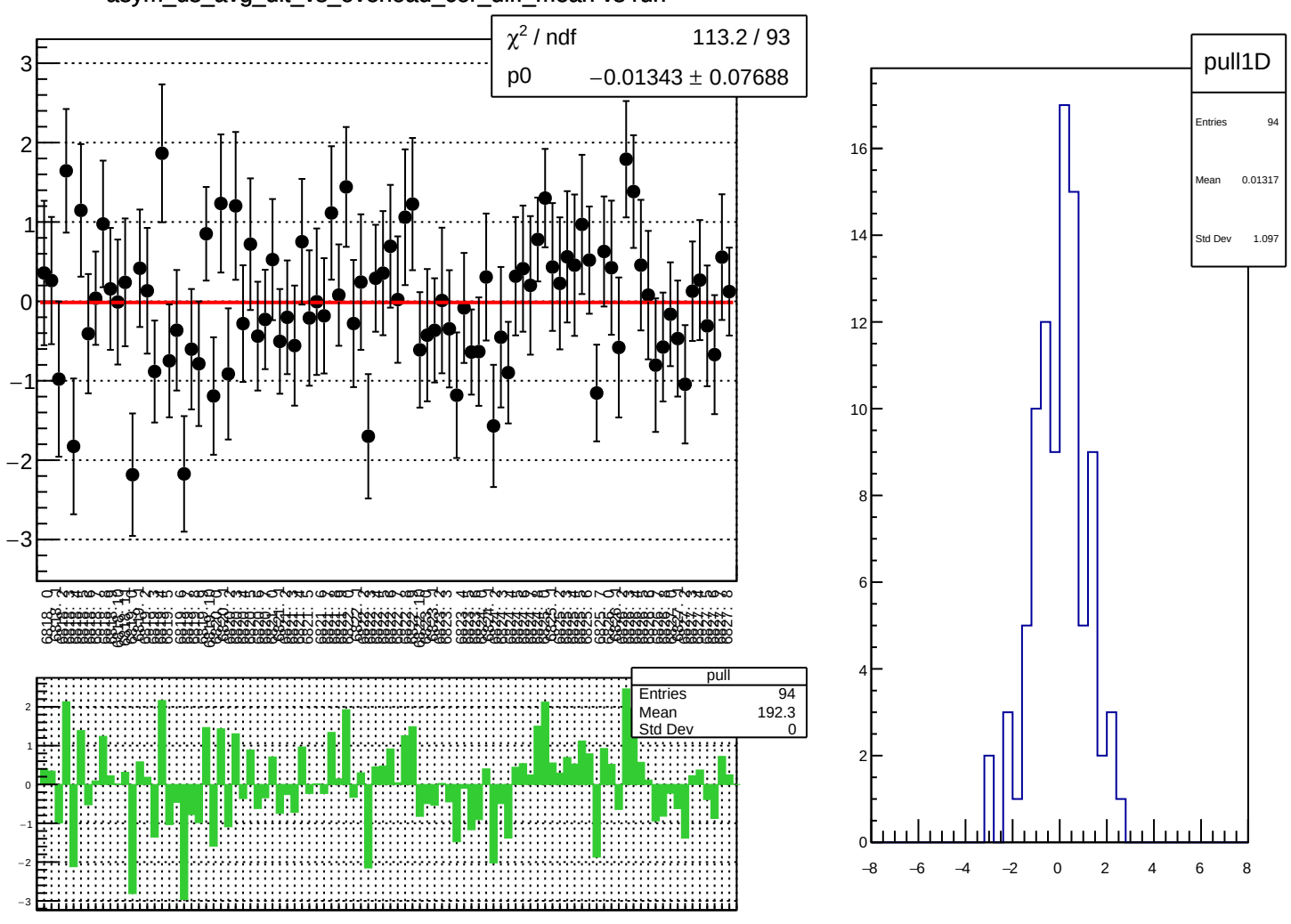

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.265e+05 / 93
p0 1.672e−11 ± 1.699e−14

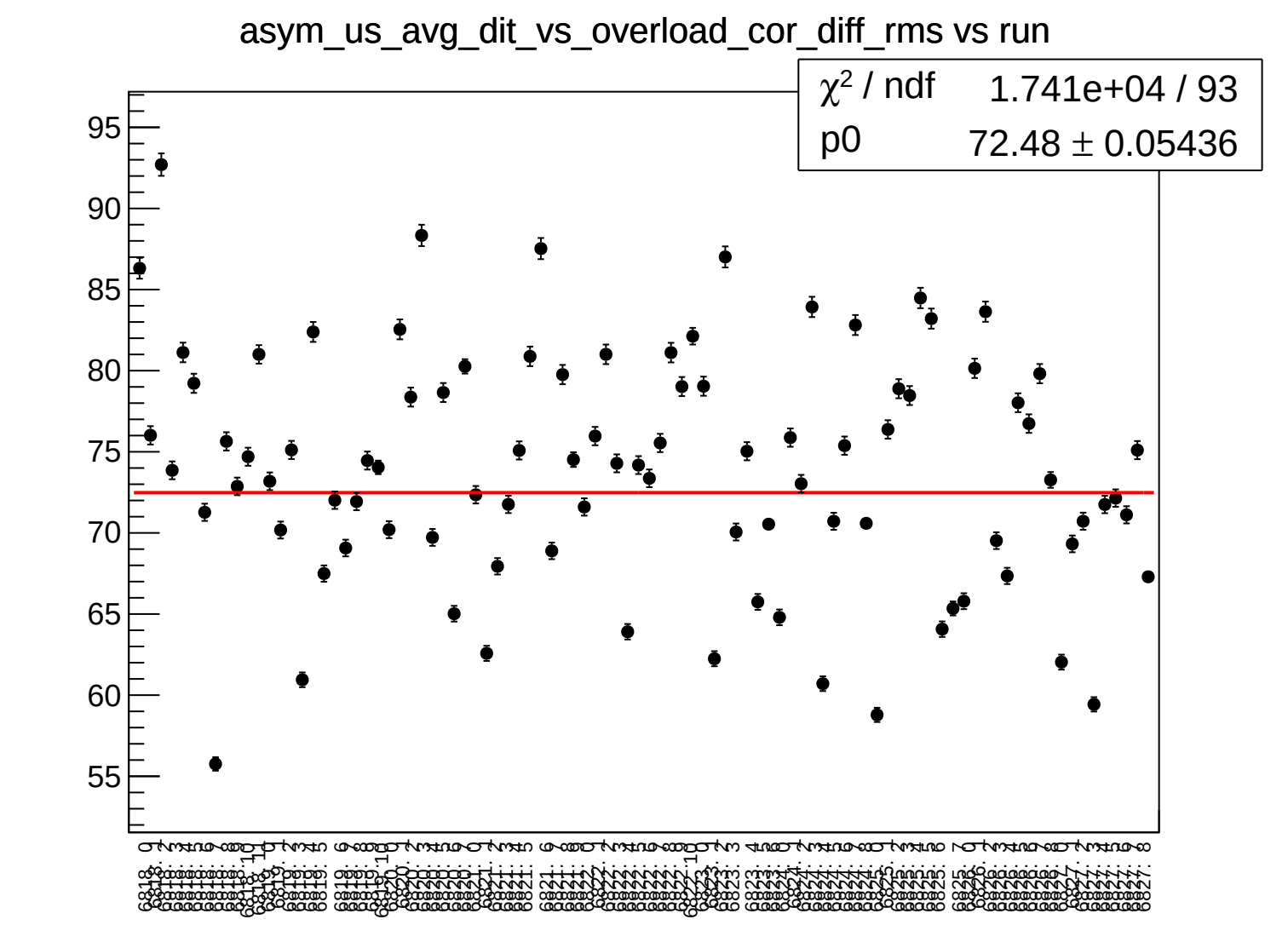

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 93
p0 0.06326 ± 0.05622
pull
Entries 94
Mean 59.62
Std Dev 60.67
pull1D
Entries 94
Mean 0.01097
Std Dev 1.003

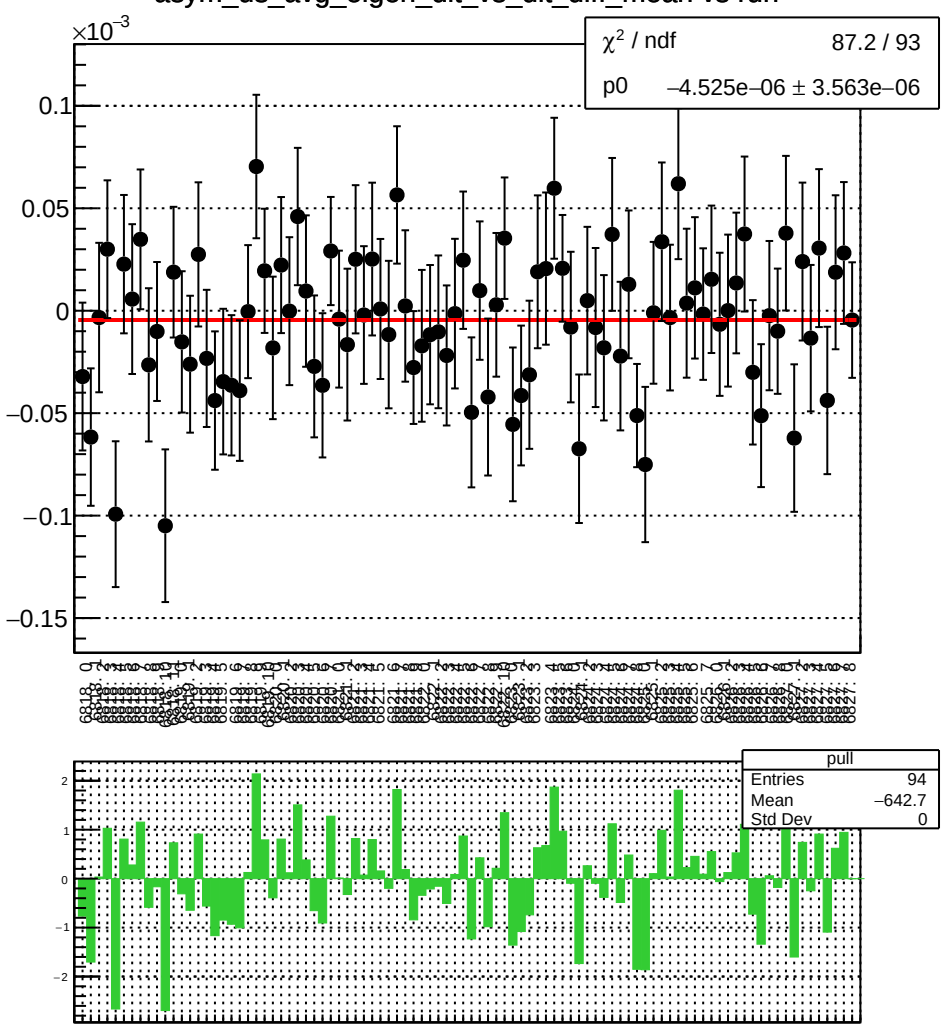

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.492e+04 / 93
p0 52.74 ± 0.03975
75
70
65
60
55
50
45
40
35

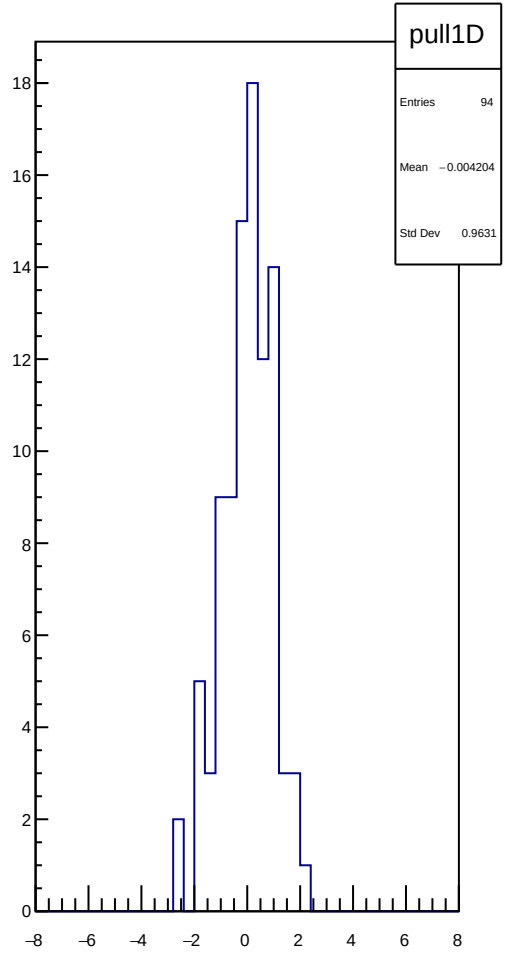

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.65 / 93
p0 0.06326 ± 0.05622
pull
Entries 94
Mean 59.62
Std Dev 60.67
pull1D
Entries 94
Mean 0.01097
Std Dev 1.003

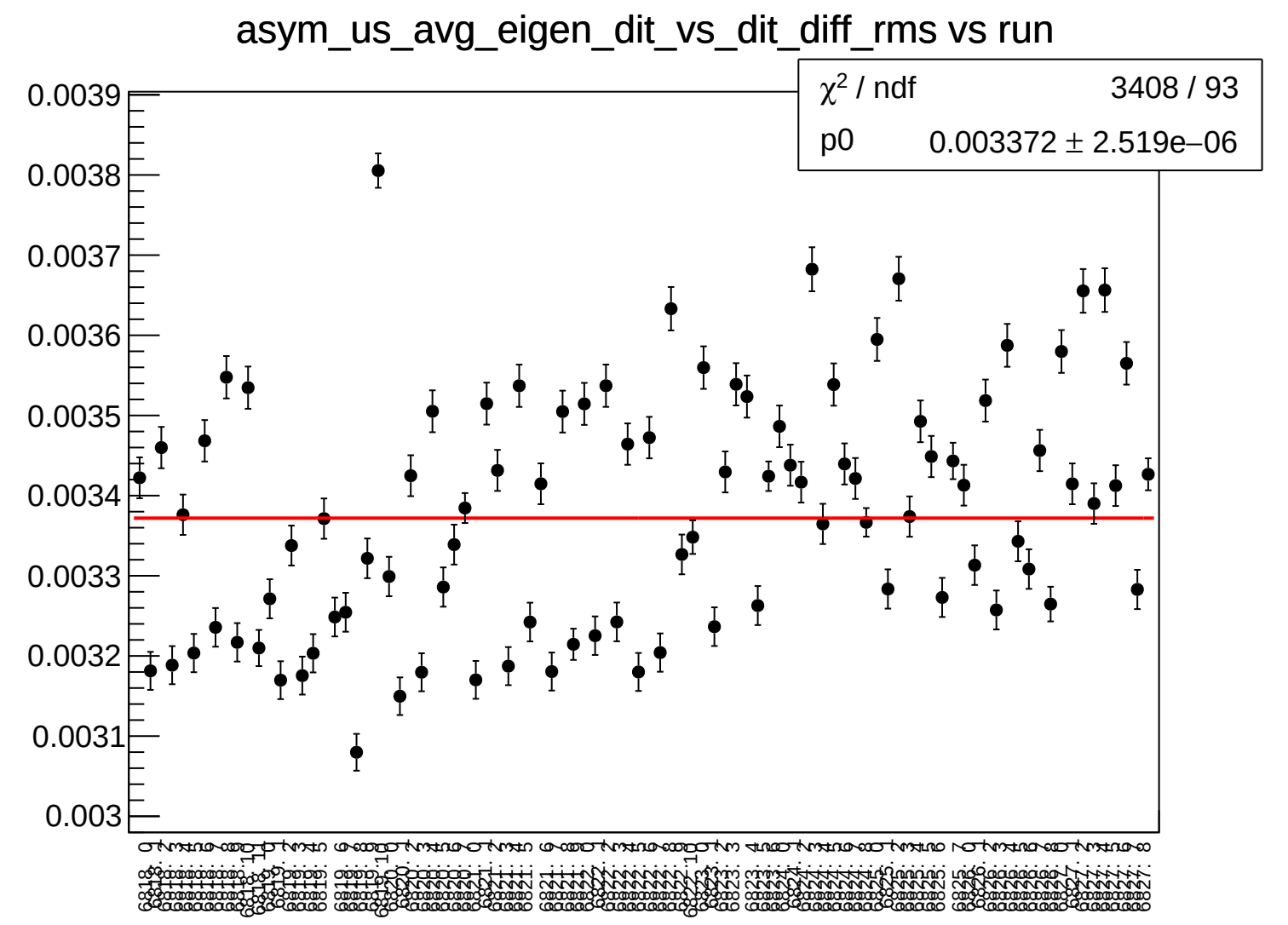

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.492e+04 / 93
p0 52.74 ± 0.03975
75
70
65
60
55
50
45
40
35

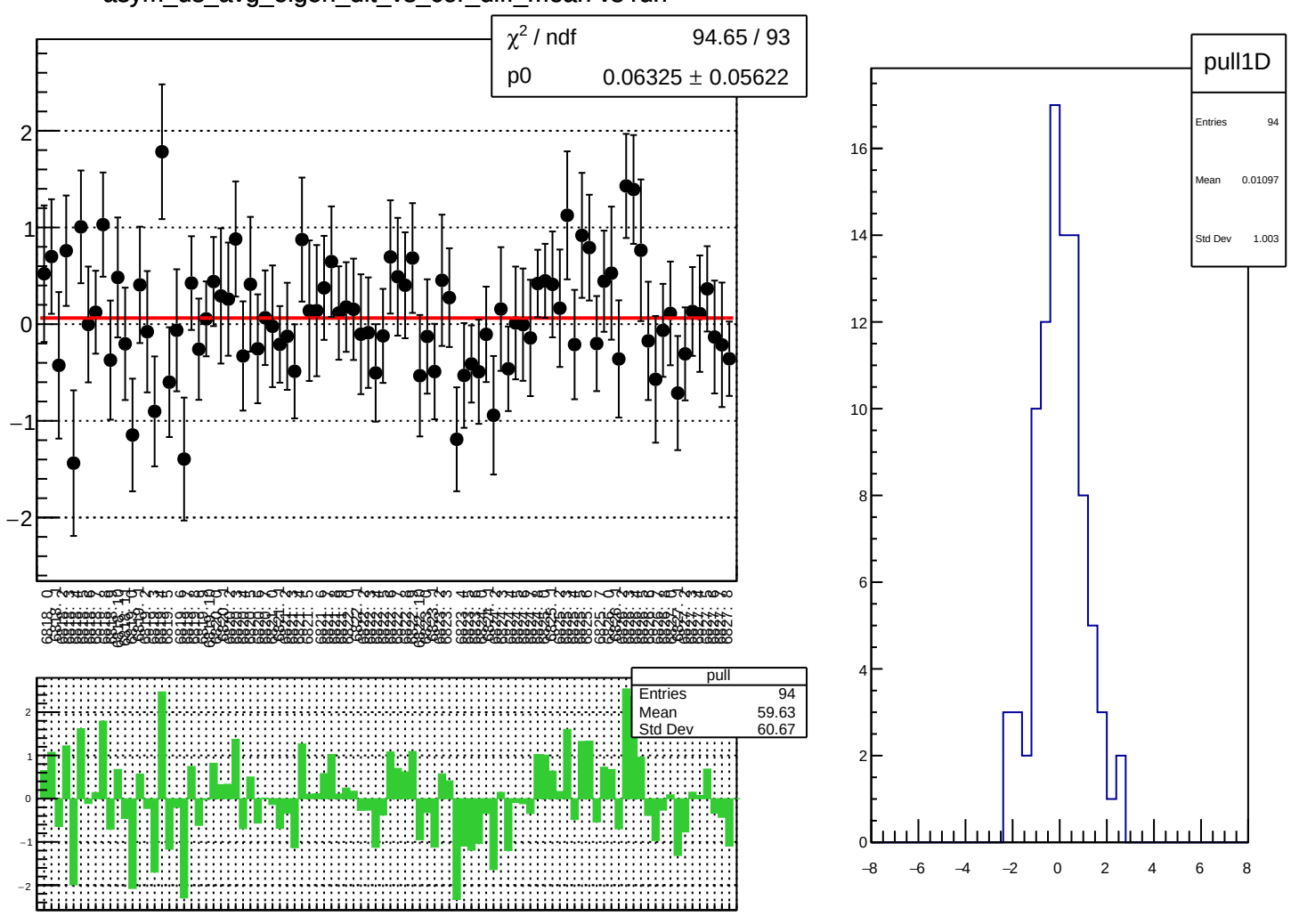

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.2 / 93
p0 −0.01343 ± 0.07688
pull
Entries 94
Mean 192.3
Std Dev 0
pull1D
Entries 94
Mean 0.01317
Std Dev 1.097

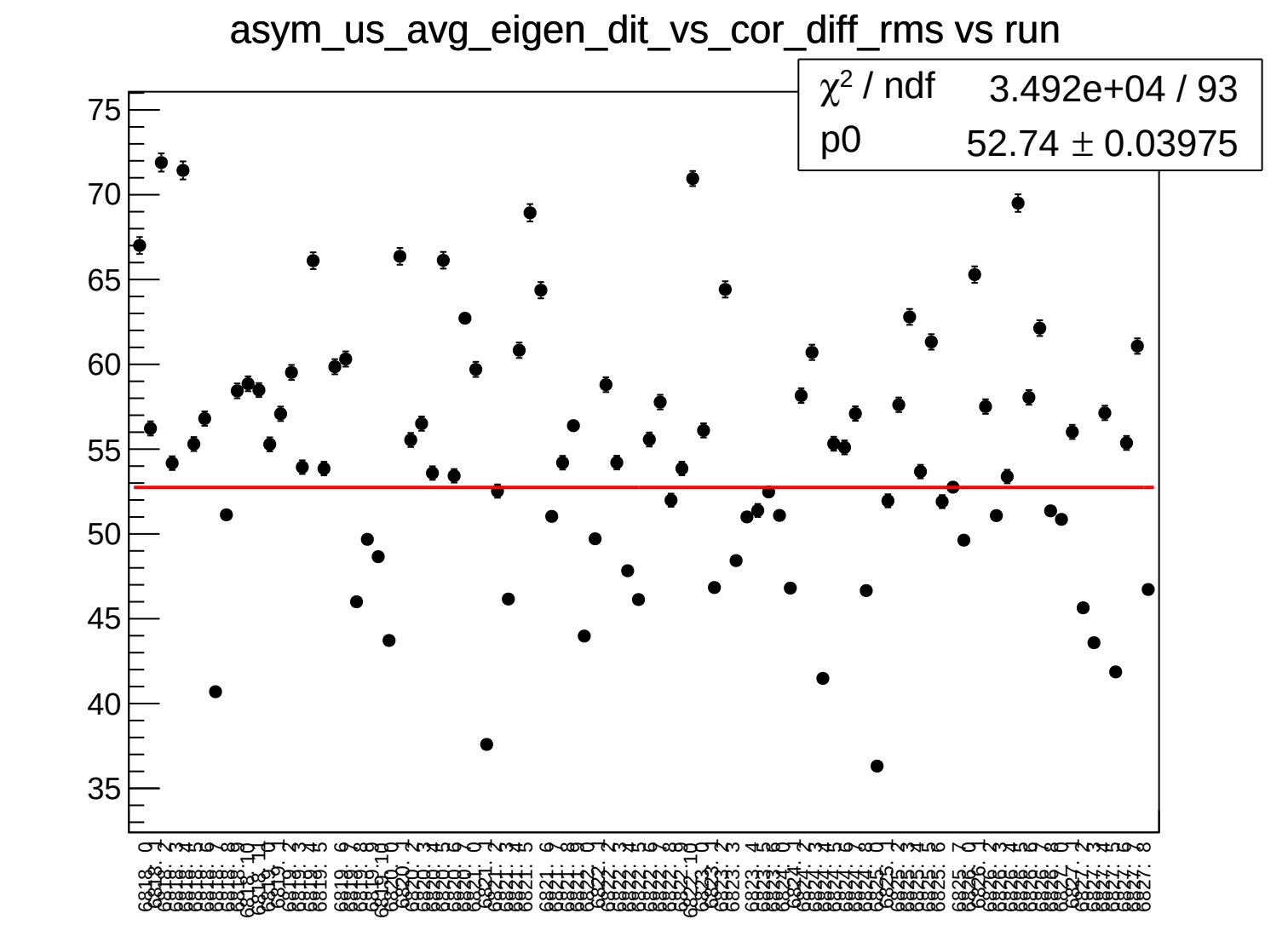

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 93
p0 72.48 ± 0.05436
95
90
85
80
75
70
65
60
55

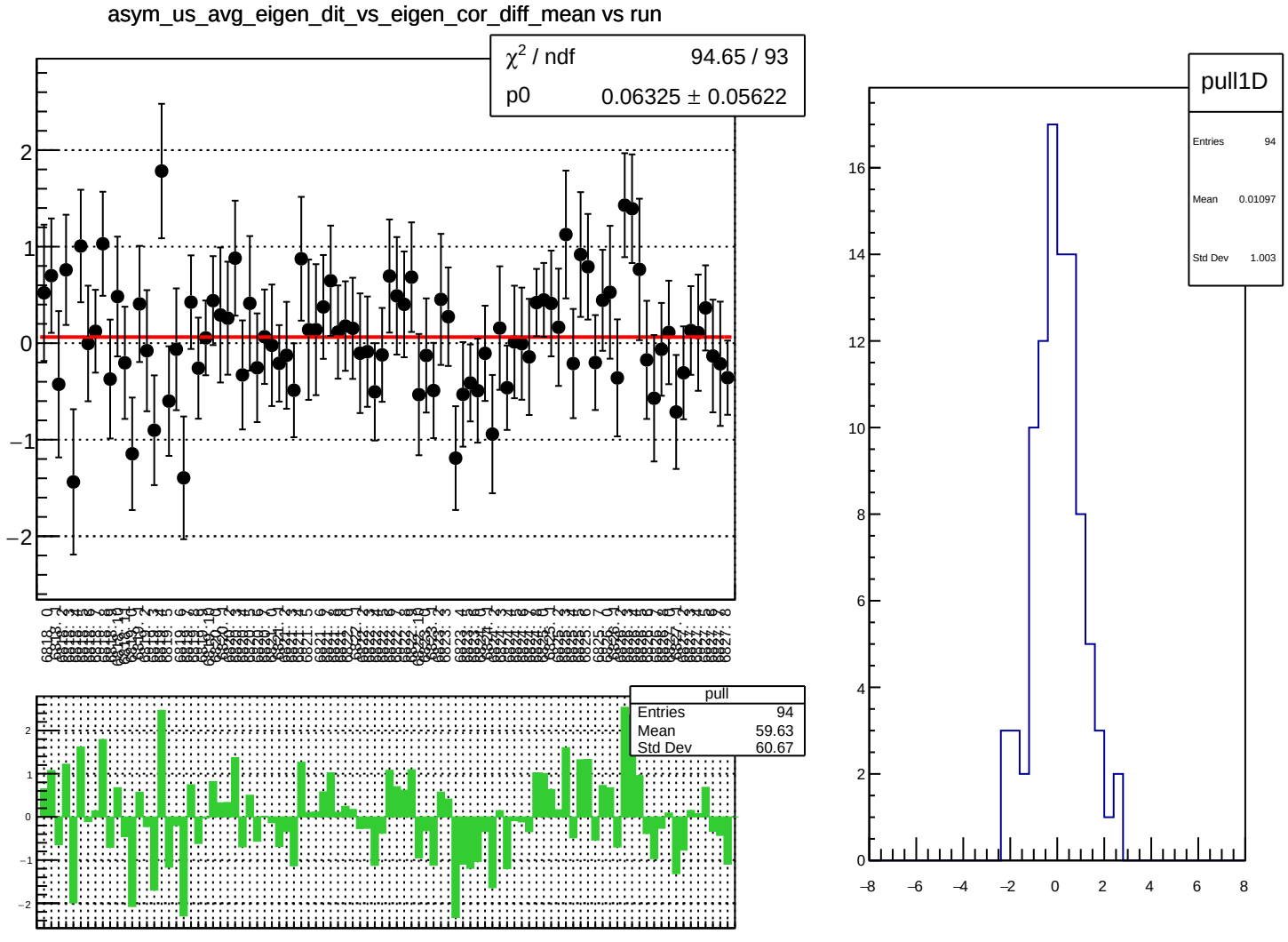

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.2 / 93
p0 −4.525e−06 ± 3.563e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −642.7
Std Dev 0
2
1
0
−1
−2

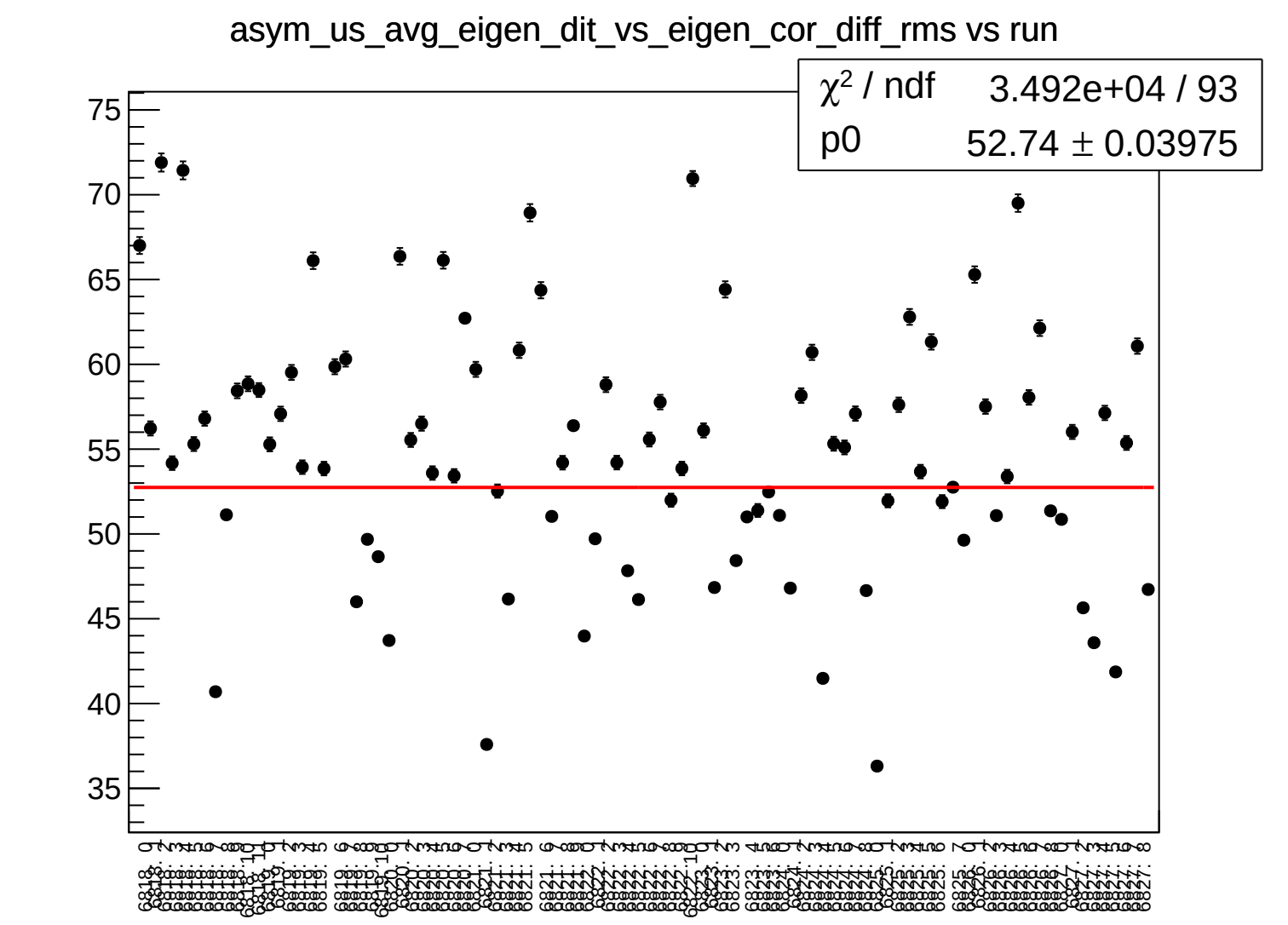

pull1D
Entries 94
Mean −0.004204
Std Dev 0.9631
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

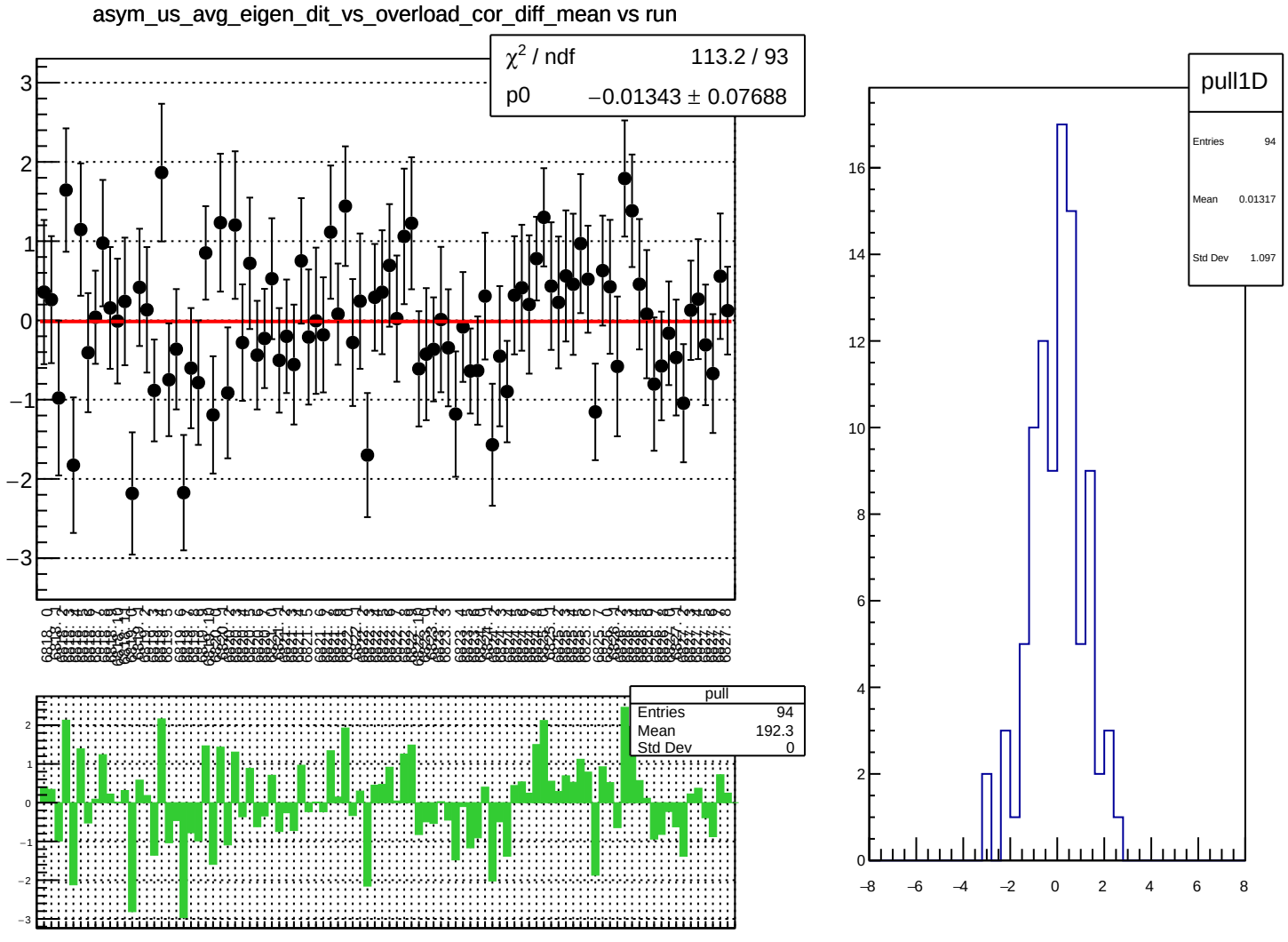

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3408 / 93
p0 0.003372 ± 2.519e−06
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003

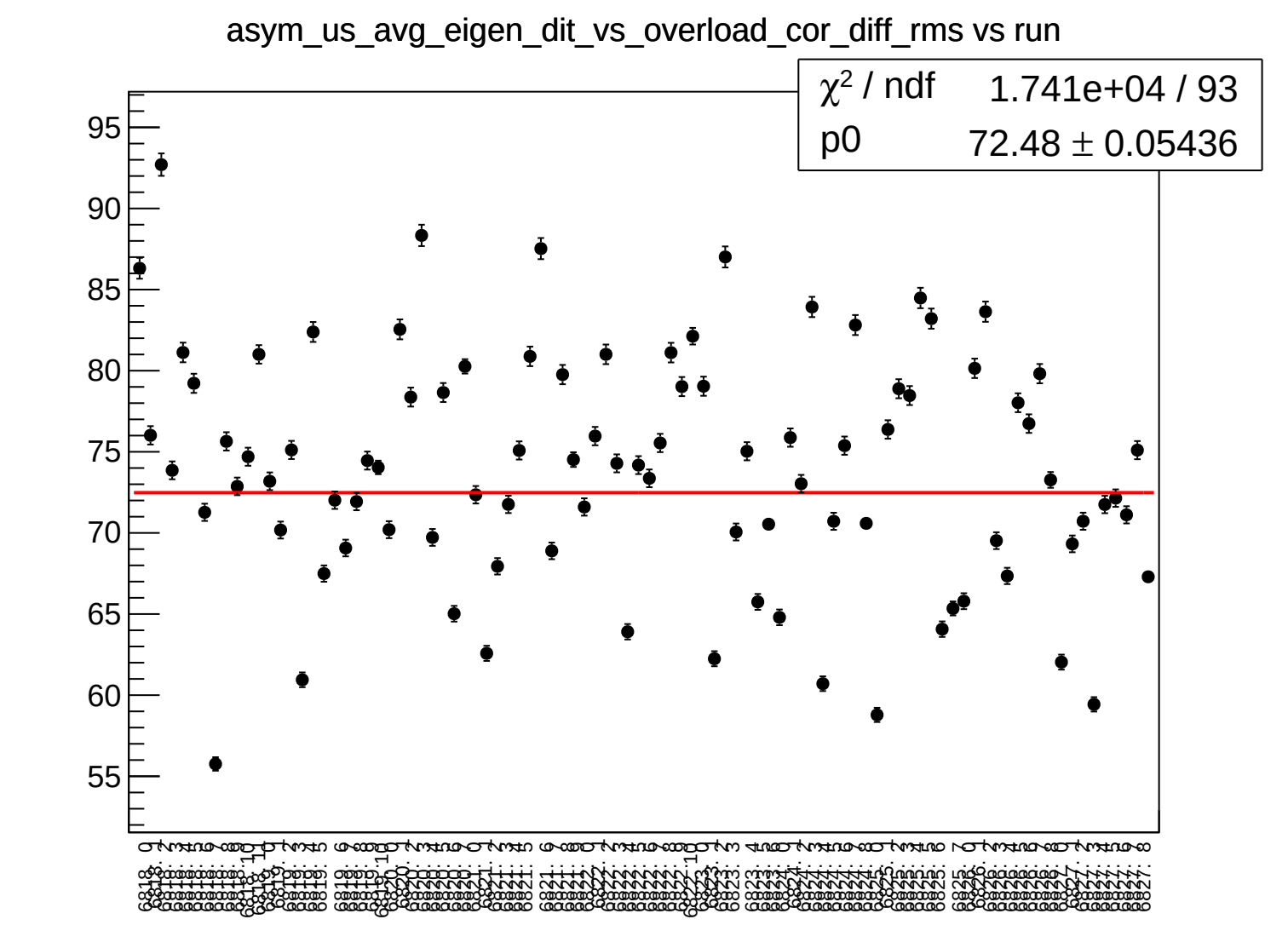

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.65 / 93
p0 0.06325 ± 0.05622
pull
Entries 94
Mean 59.63
Std Dev 60.67
pull1D
Entries 94
Mean 0.01097
Std Dev 1.003

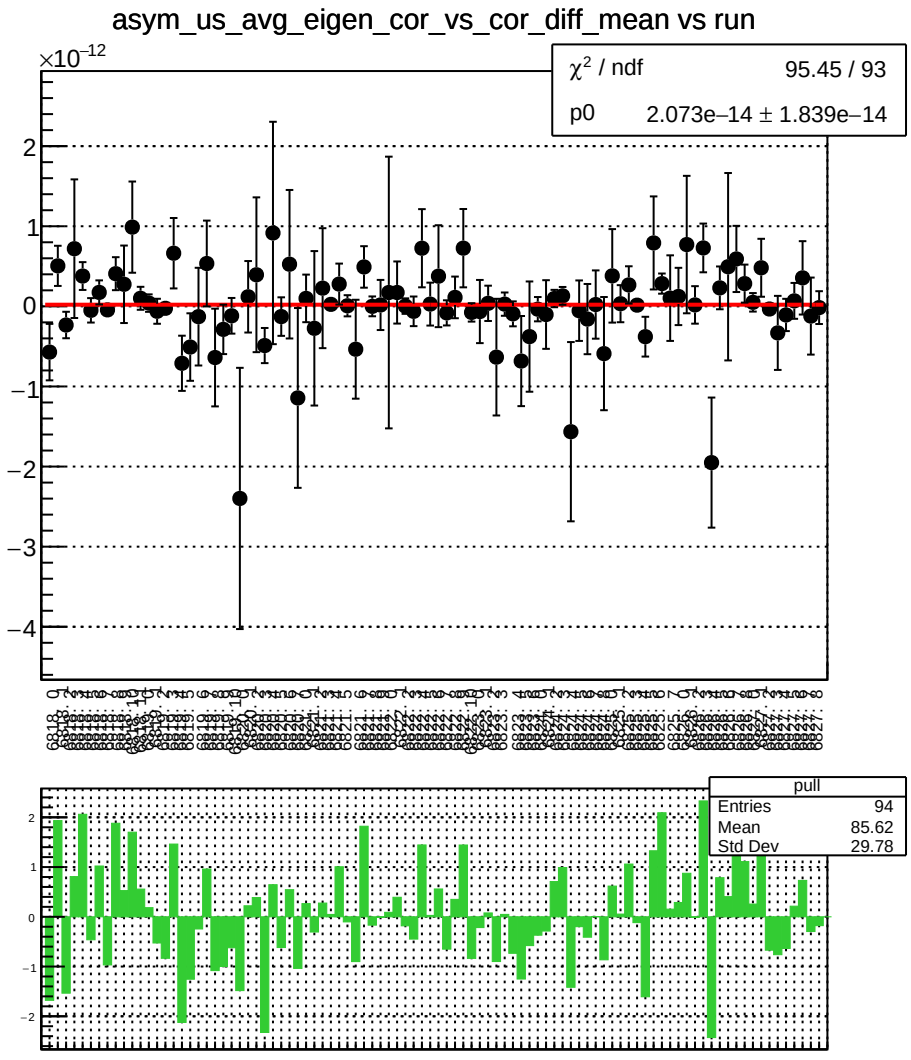

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.492e+04 / 93
p0 52.74 ± 0.03975
75
70
65
60
55
50
45
40
35

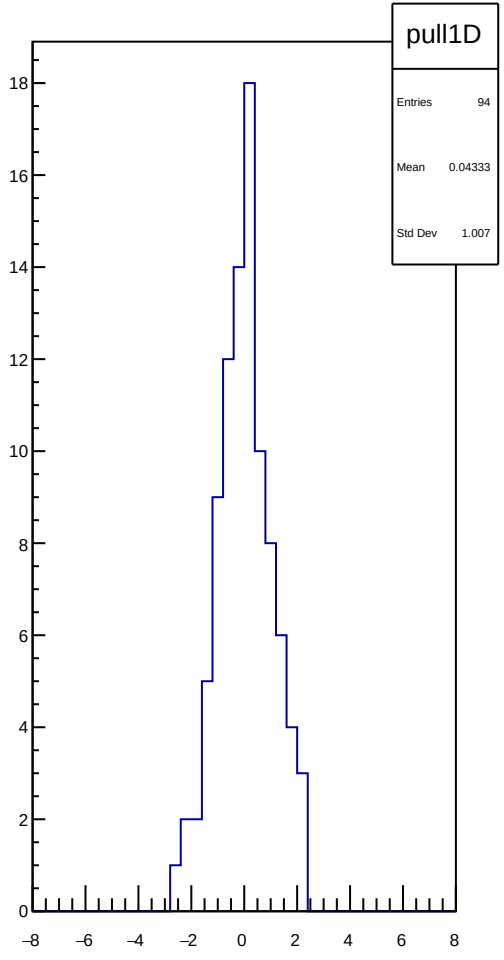

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.65 / 93
p0 0.06325 ± 0.05622
pull
Entries 94
Mean 59.63
Std Dev 60.67
pull1D
Entries 94
Mean 0.01097
Std Dev 1.003

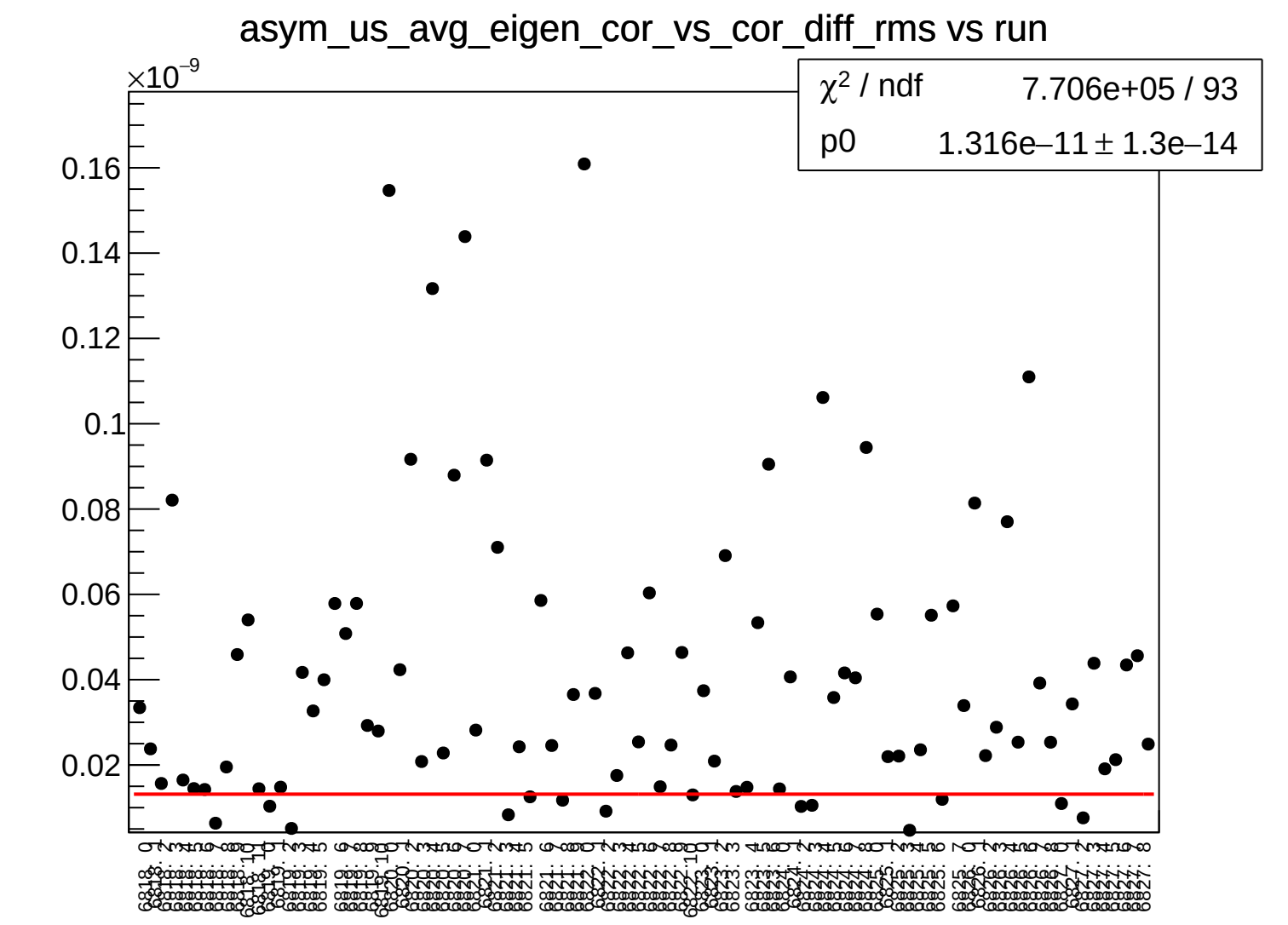

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.492e+04 / 93
p0 52.74 ± 0.03975
75
70
65
60
55
50
45
40
35

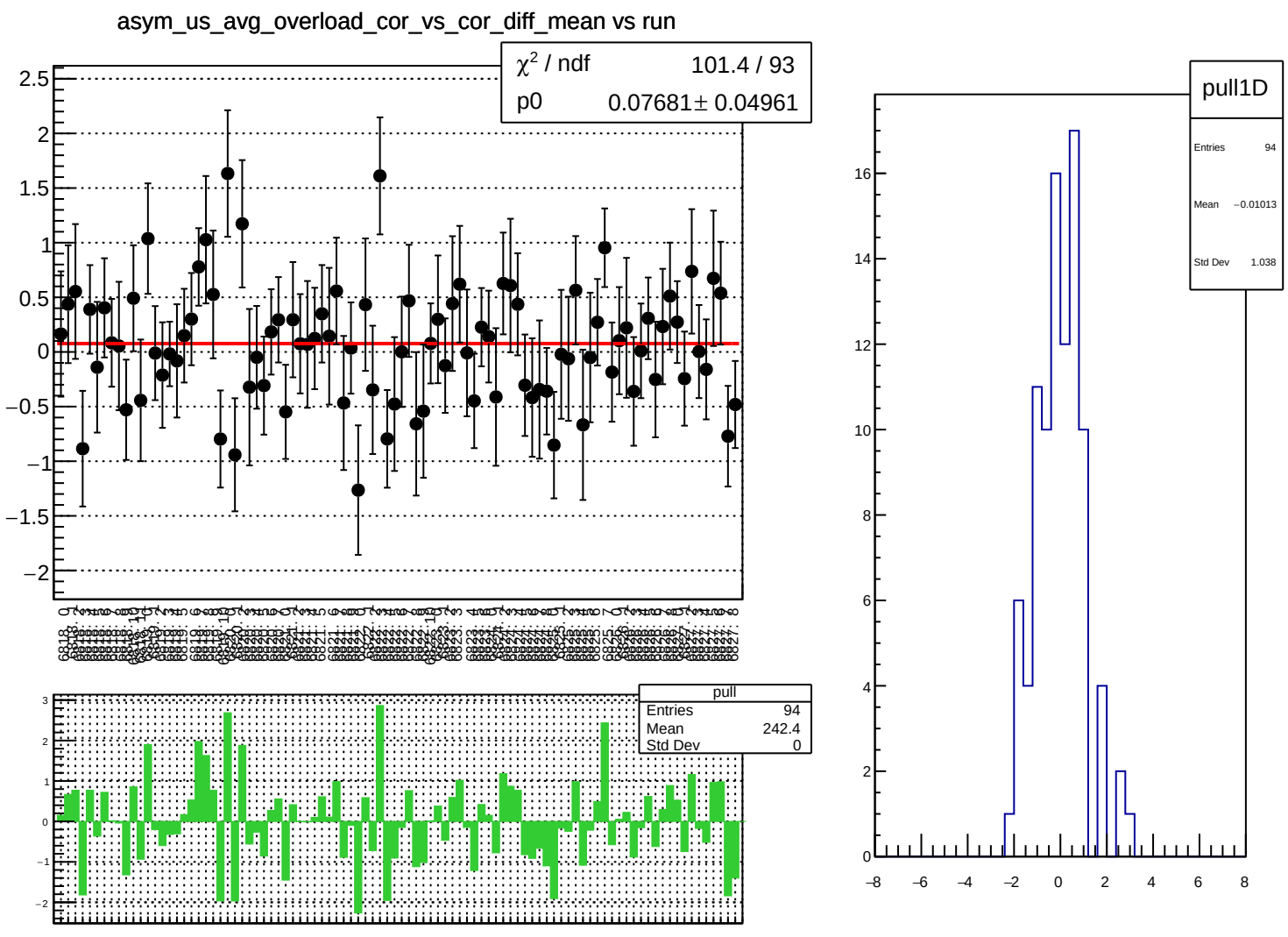

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.2 / 93
p0 −0.01343 ± 0.07688
pull
Entries 94
Mean 192.3
Std Dev 0
pull1D
Entries 94
Mean 0.01317
Std Dev 1.097

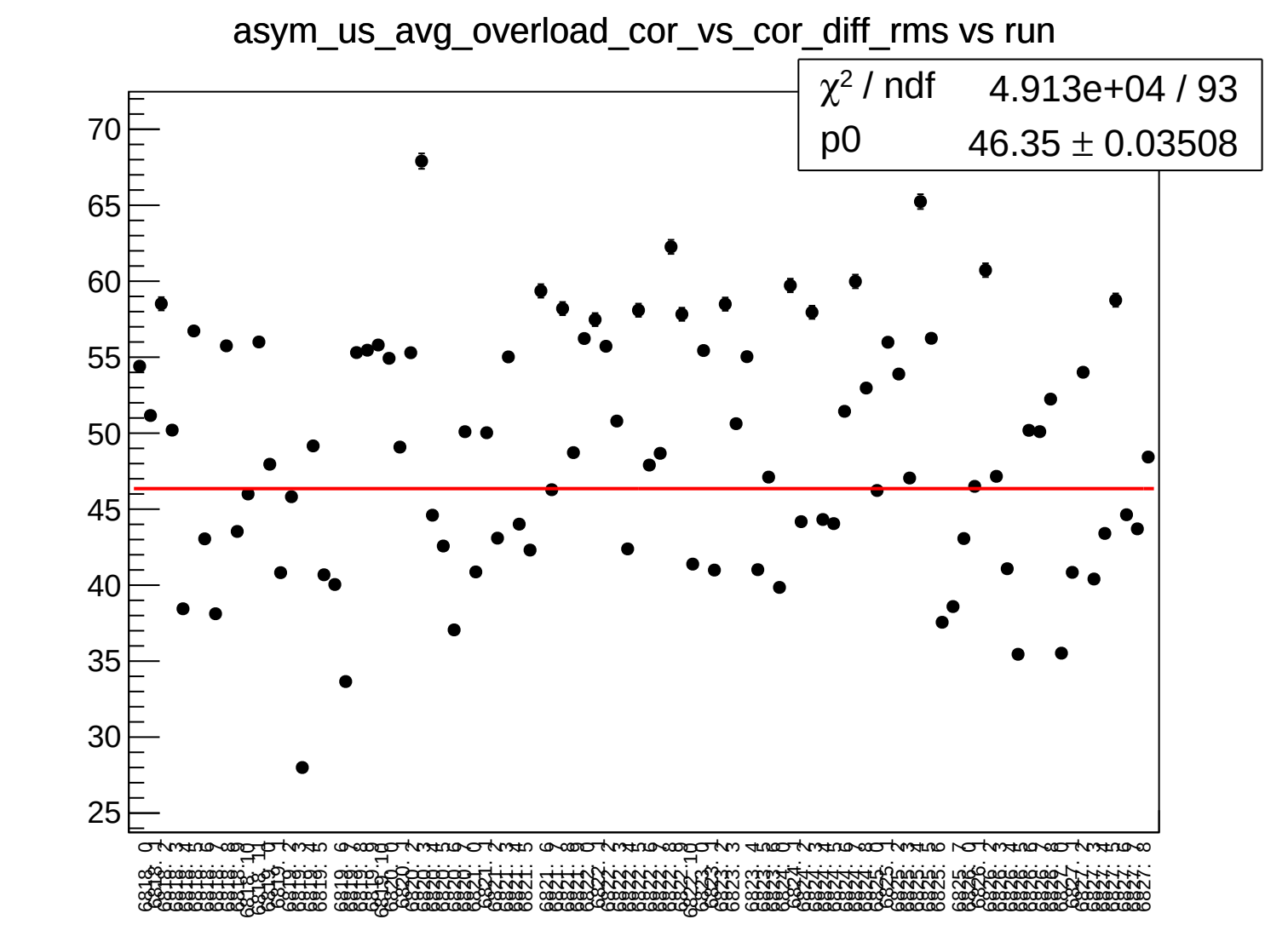

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.741e+04 / 93
p0 72.48 ± 0.05436
95
90
85
80
75
70
65
60
55

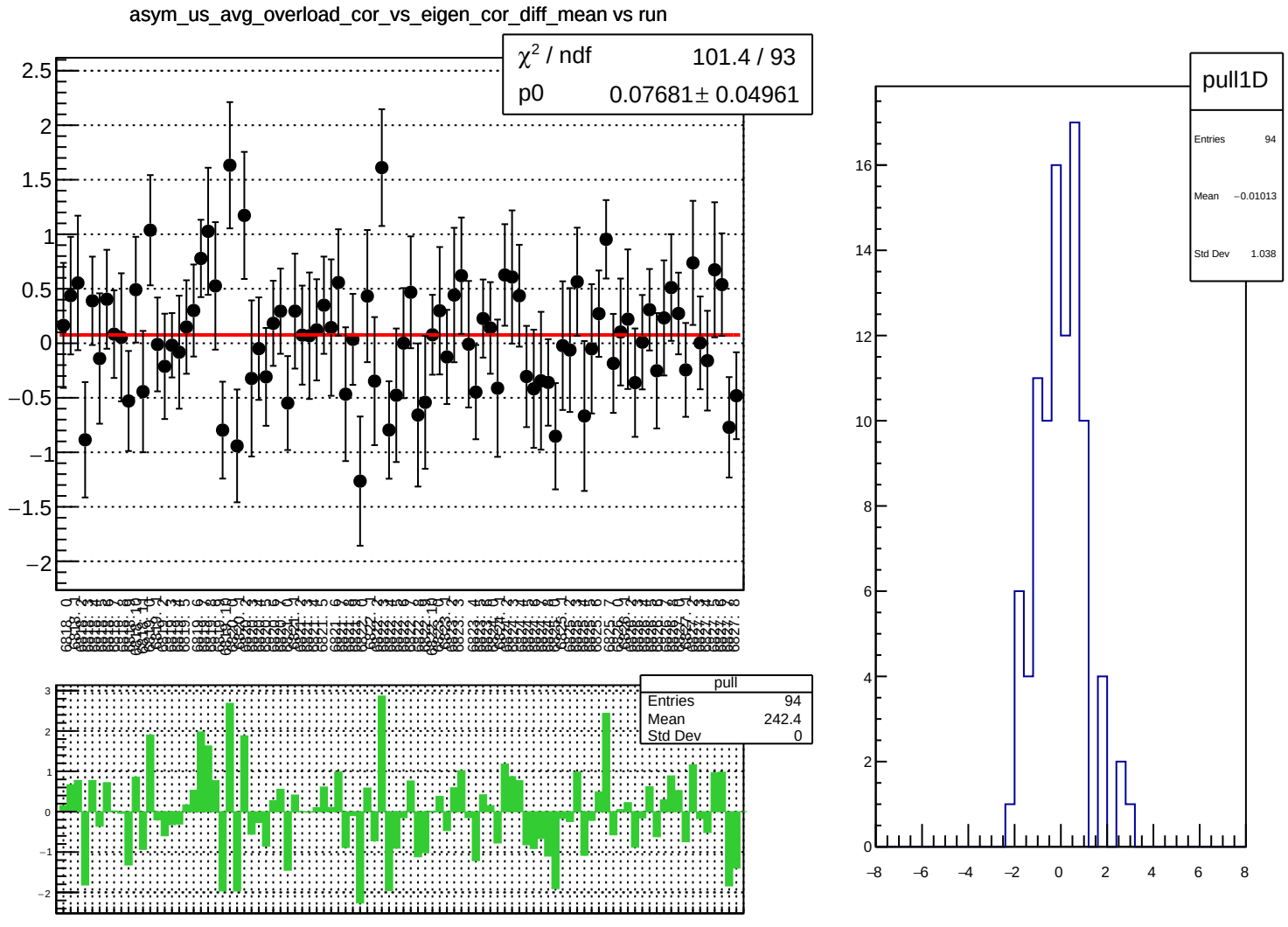

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.45 / 93
p0 2.073e−14 ± 1.839e−14
pull
Entries 94
Mean 85.62
Std Dev 29.78

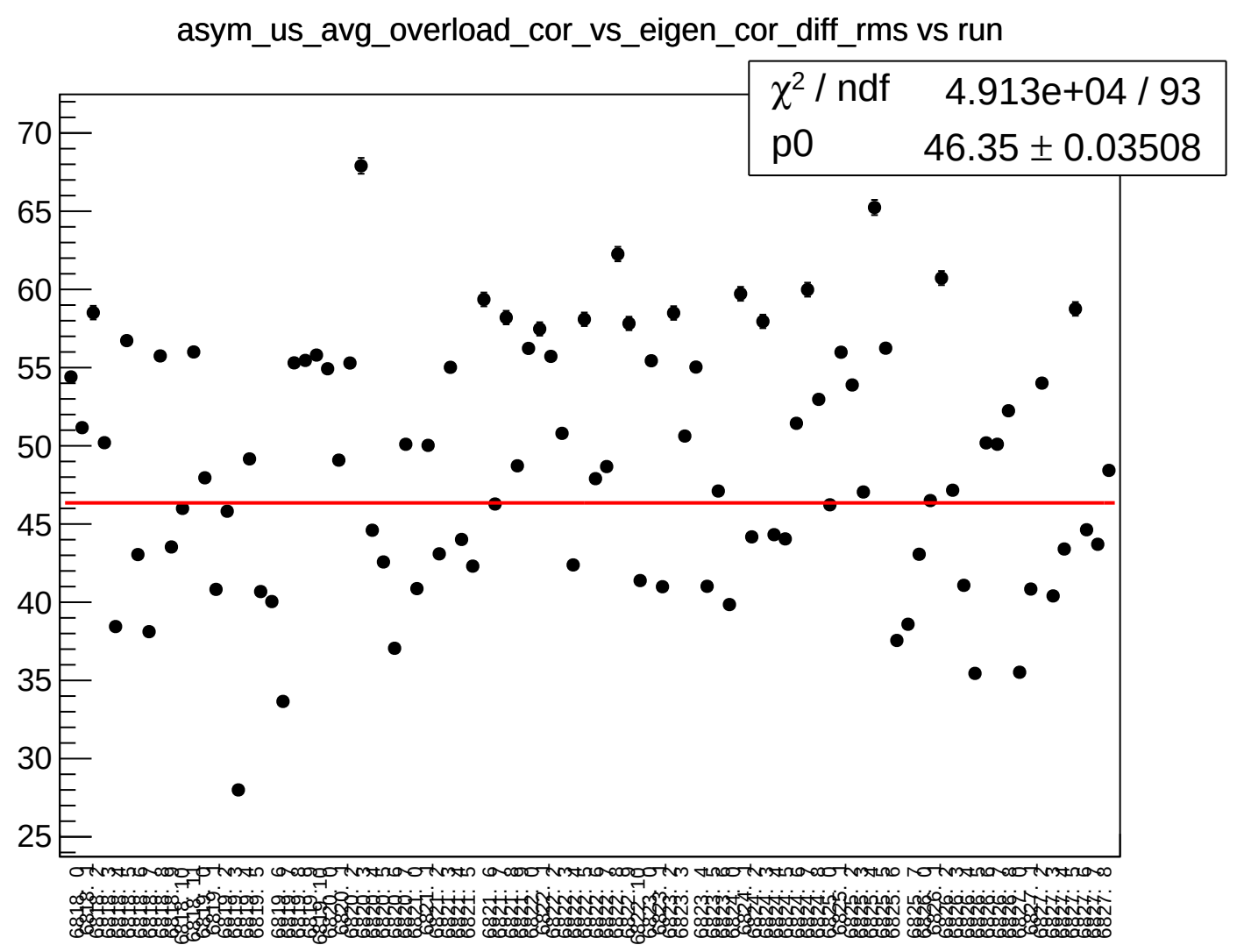

pull1D
Entries 94
Mean 0.04333
Std Dev 1.007

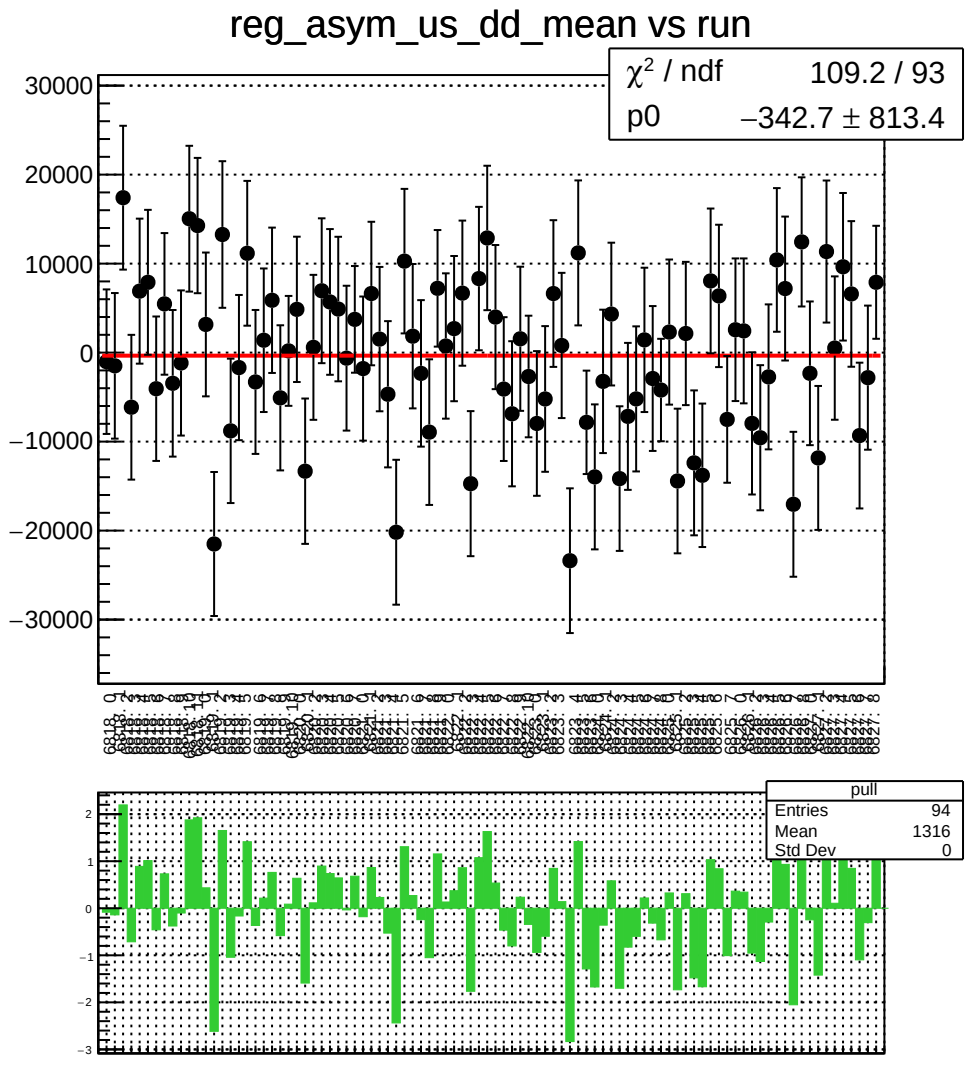

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.706e+05 / 93
p0 1.316e−11 ± 1.3e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

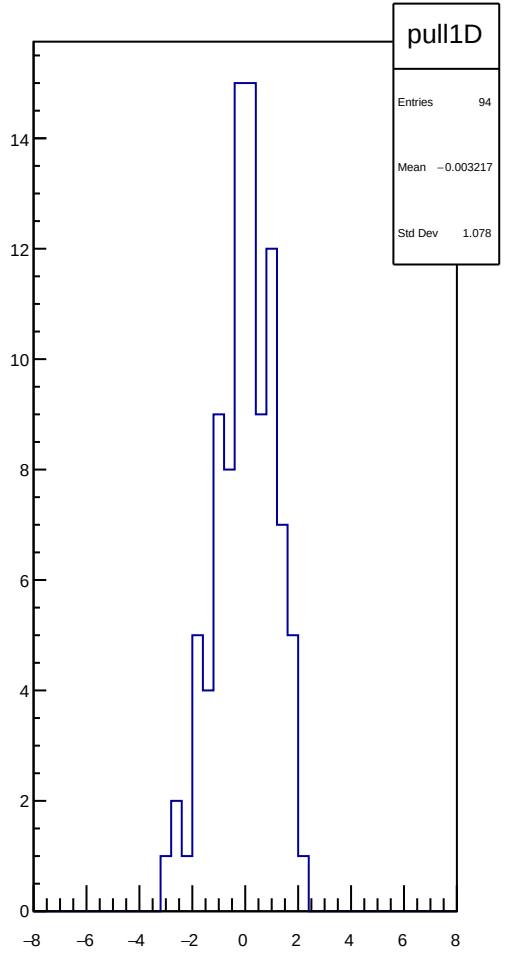

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 101.4 / 93
p0 0.07681 ± 0.04961
pull
Entries 94
Mean 242.4
Std Dev 0
pull1D
Entries 94
Mean −0.01013
Std Dev 1.038

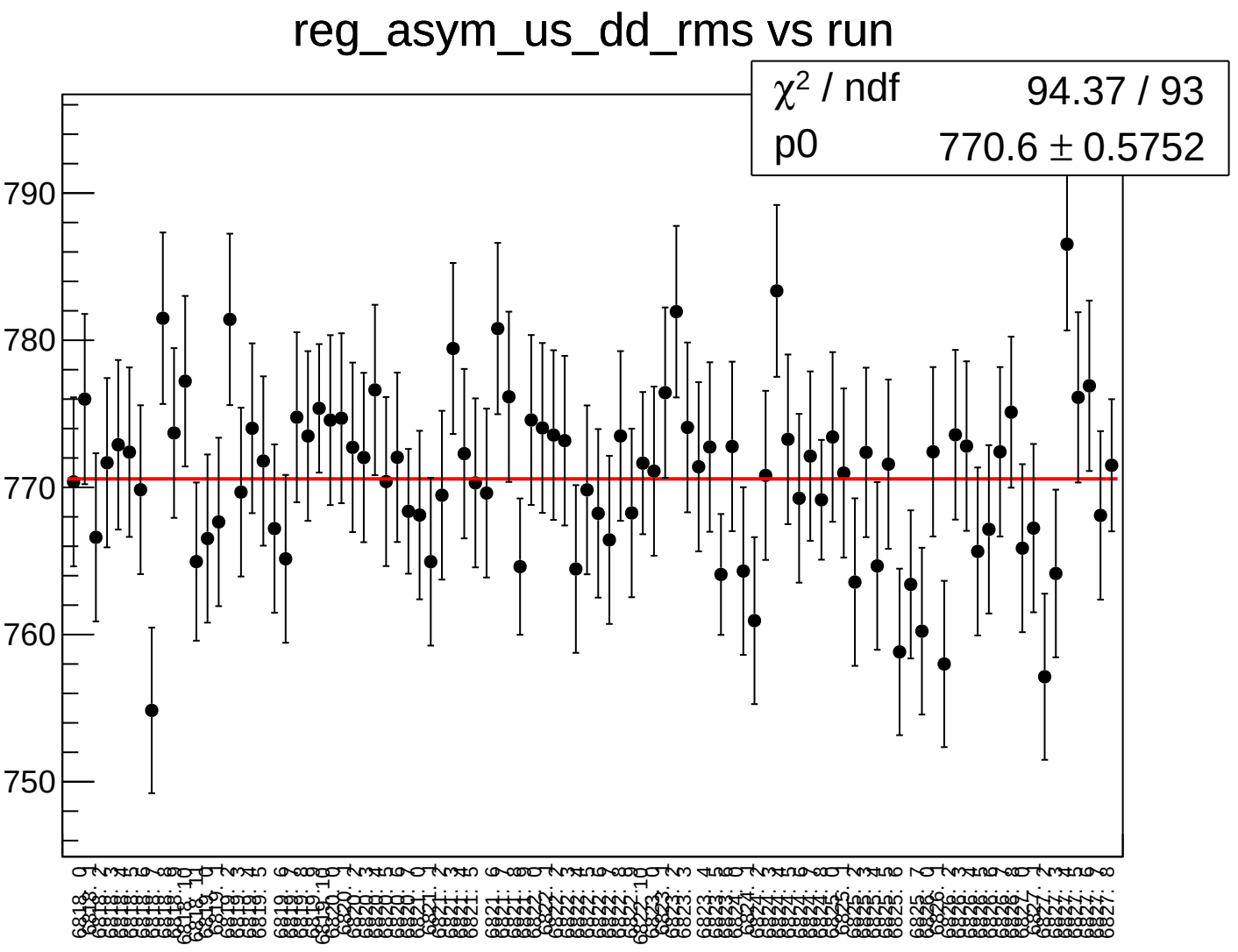

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 4.913e+04 / 93
p0 46.35 ± 0.03508
70
65
60
55
50
45
40
35
30
25

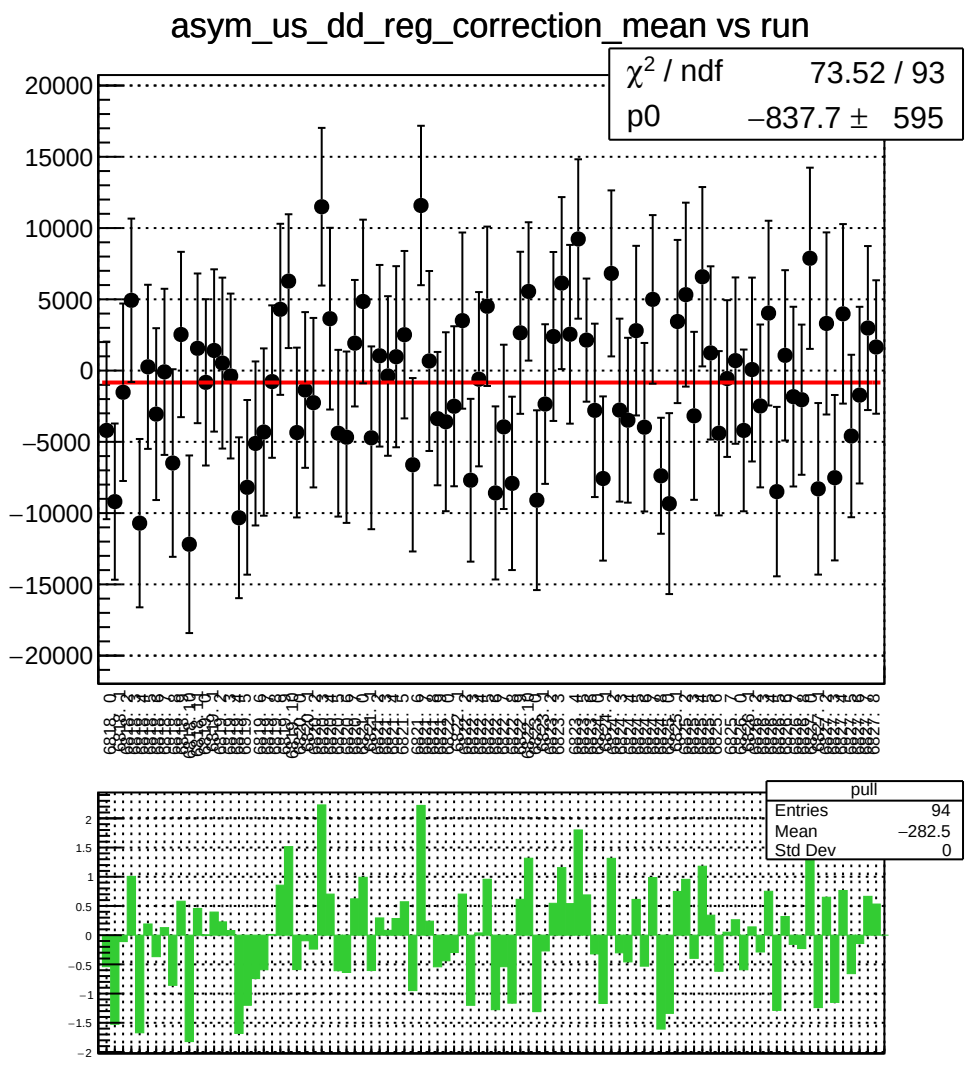

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.4 / 93
p0 0.07681 ± 0.04961
pull
Entries 94
Mean 242.4
Std Dev 0
pull1D
Entries 94
Mean −0.01013
Std Dev 1.038

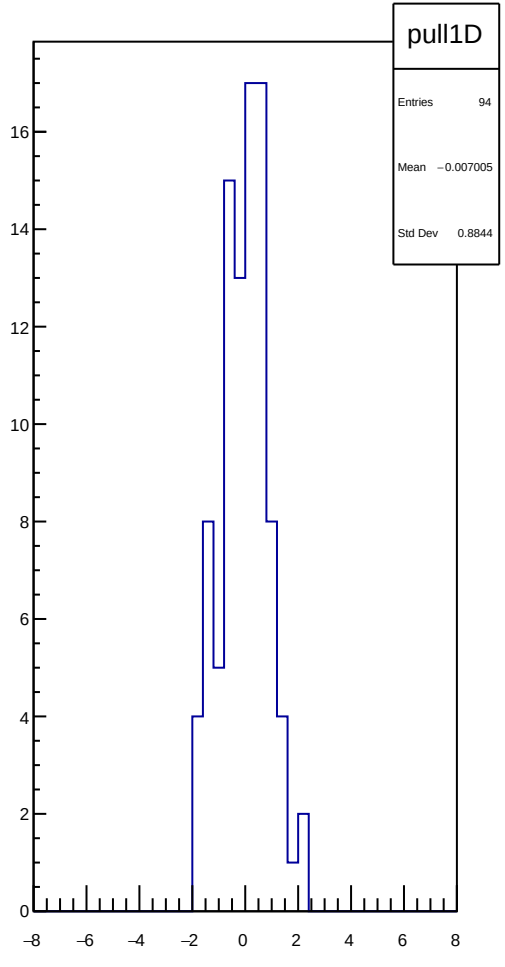

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.913e+04 / 93
p0 46.35 ± 0.03508
70
65
60
55
50
45
40
35
30
25

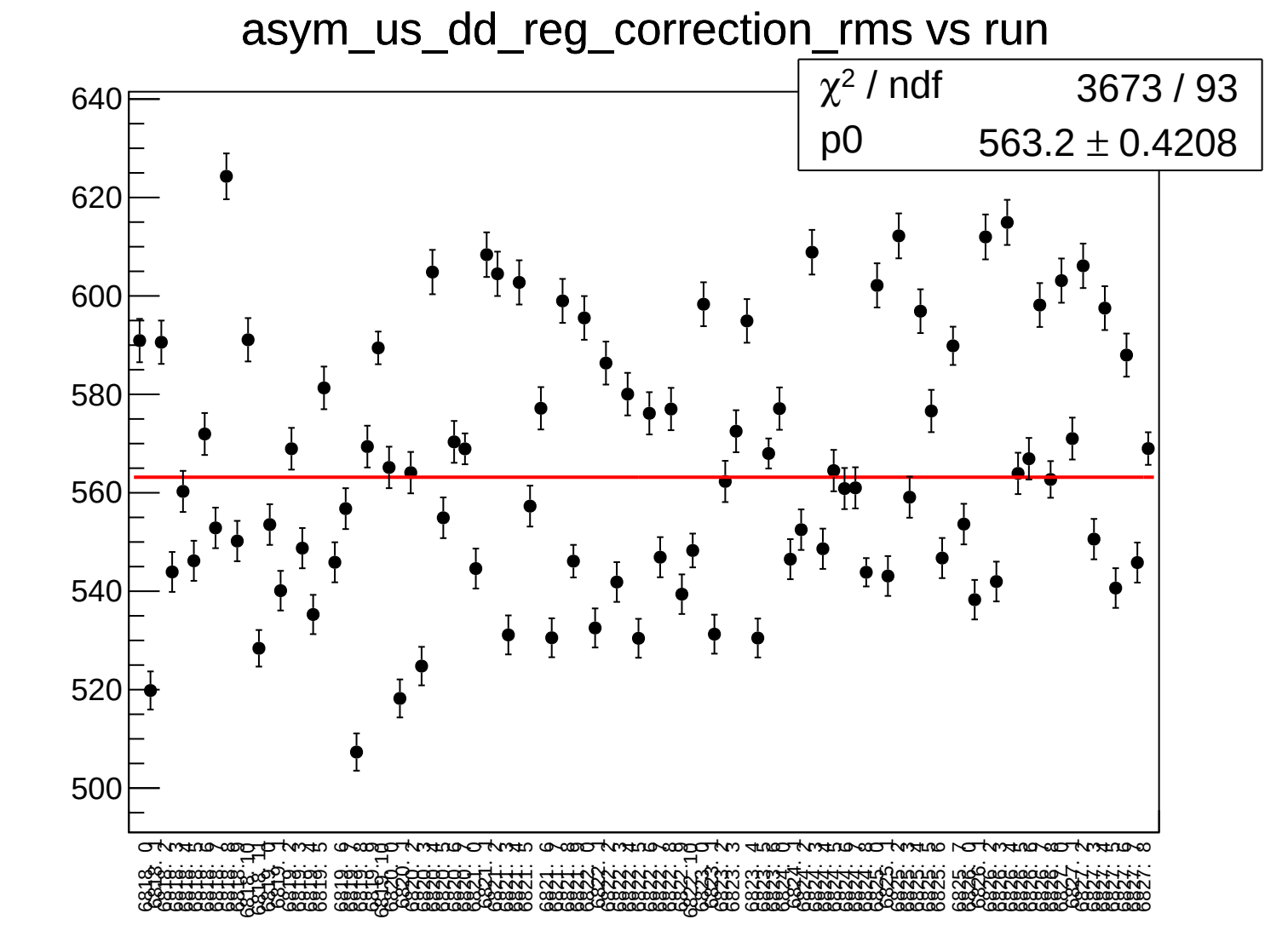

reg_asym_us_dd_mean vs run
χ² / ndf 109.2 / 93
p0 −342.7 ± 813.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1316
Std Dev 0
2
1
0
−1
−2
−3

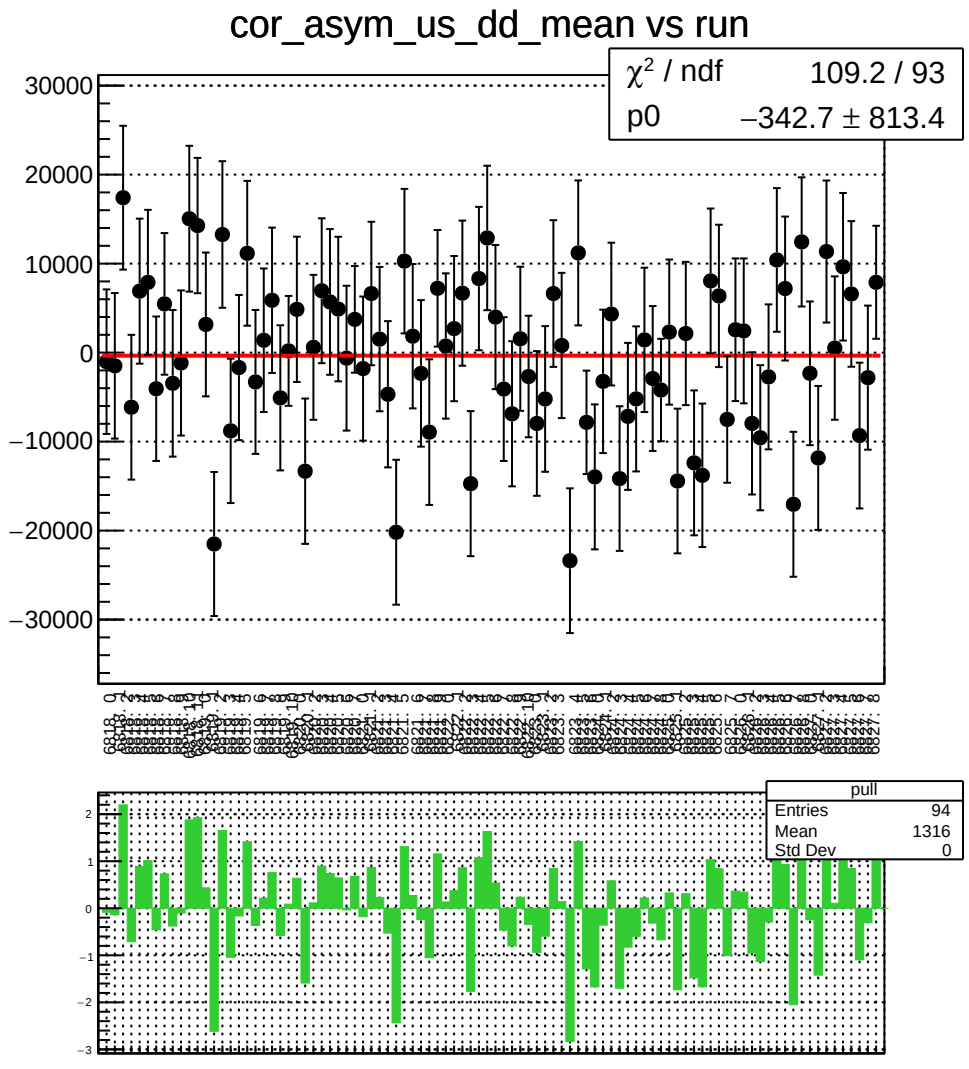

pull1D
Entries 94
Mean −0.003217
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

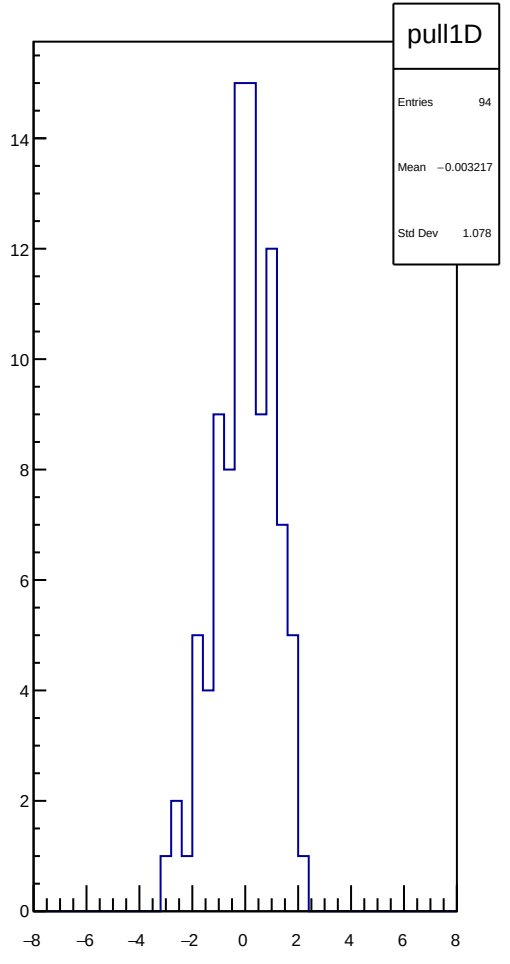

reg_asym_us_dd_rms vs run
χ² / ndf 94.37 / 93
p0 770.6 ± 0.5752
790
780
770
760
750

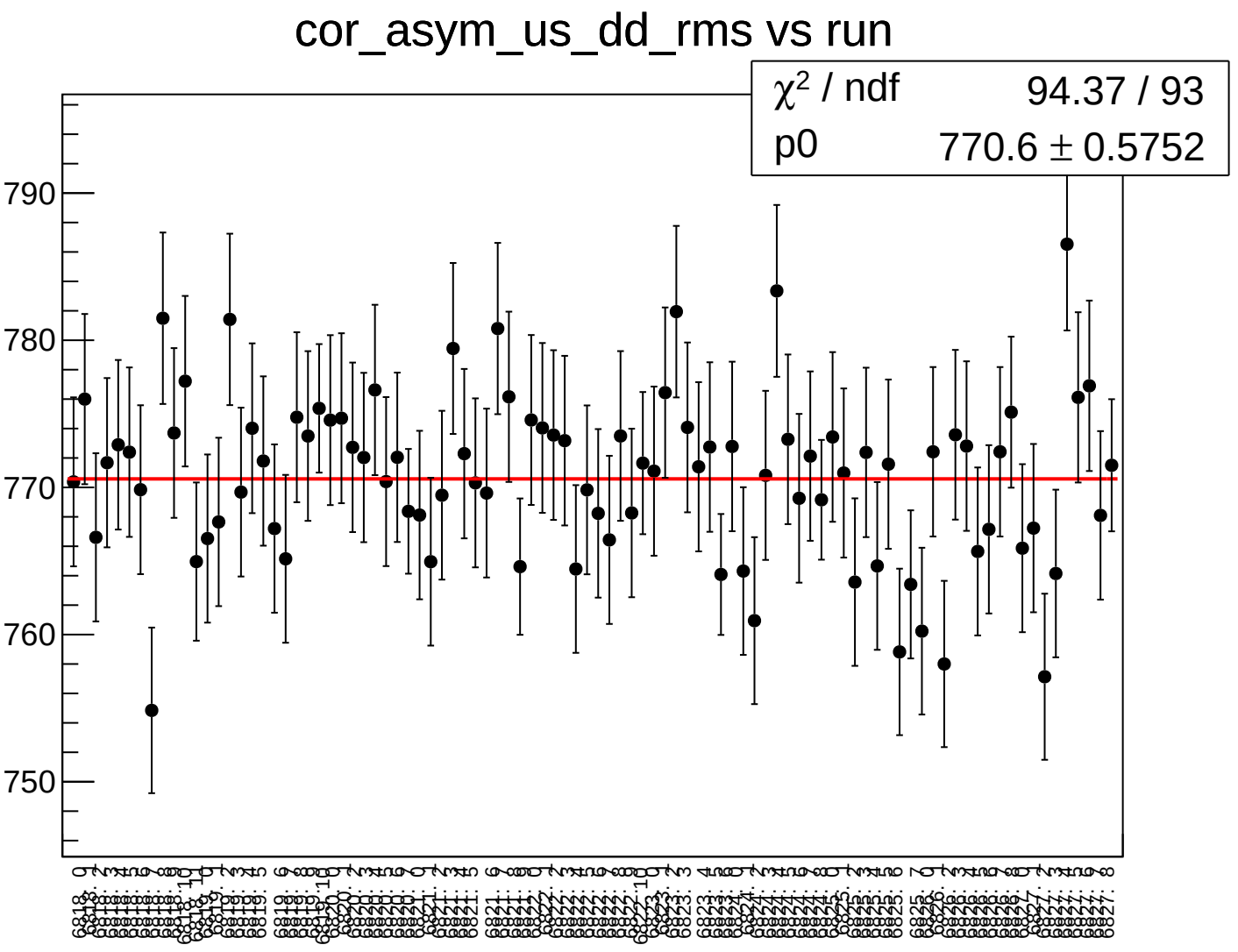

asym_us_dd_reg_correction_mean vs run
χ² / ndf 73.52 / 93
p0 −837.7 ± 595
pull
Entries 94
Mean −282.5
Std Dev 0

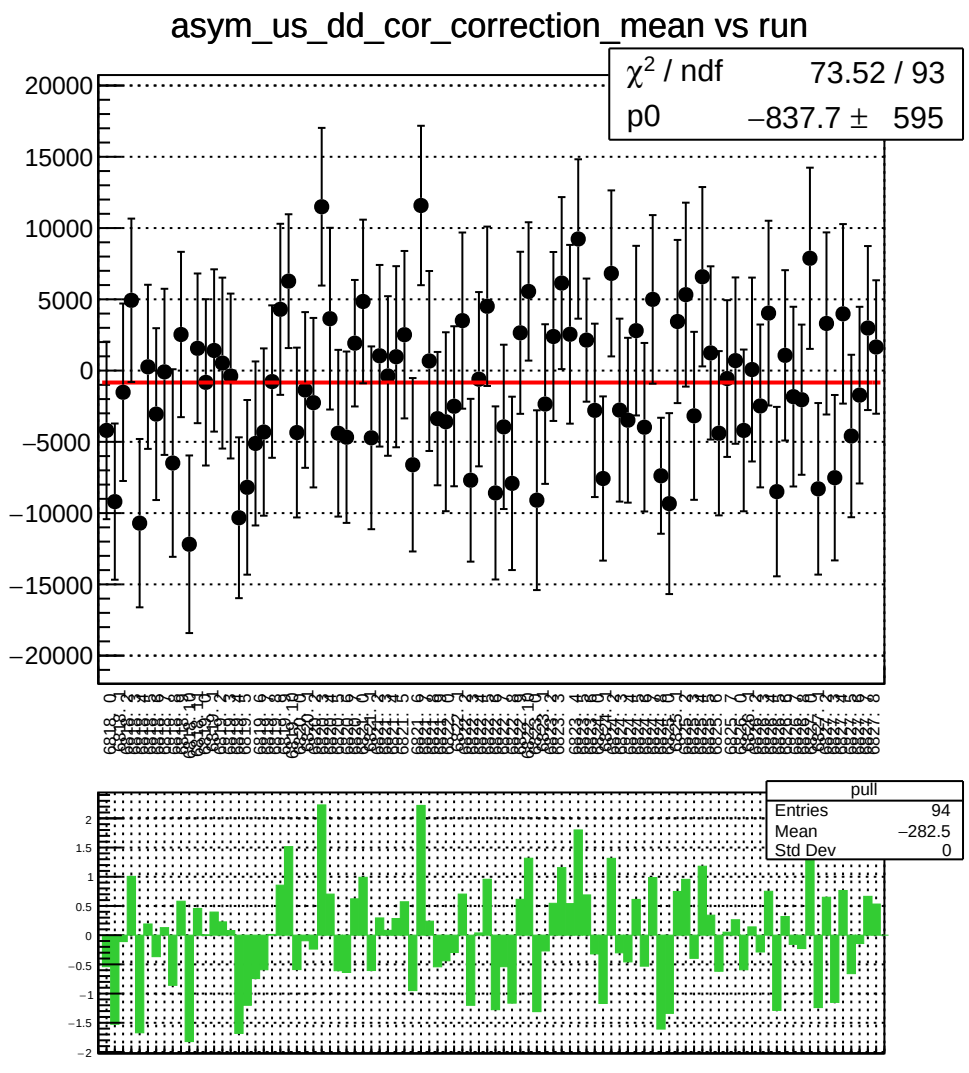

pull1D
Entries 94
Mean −0.007005
Std Dev 0.8844

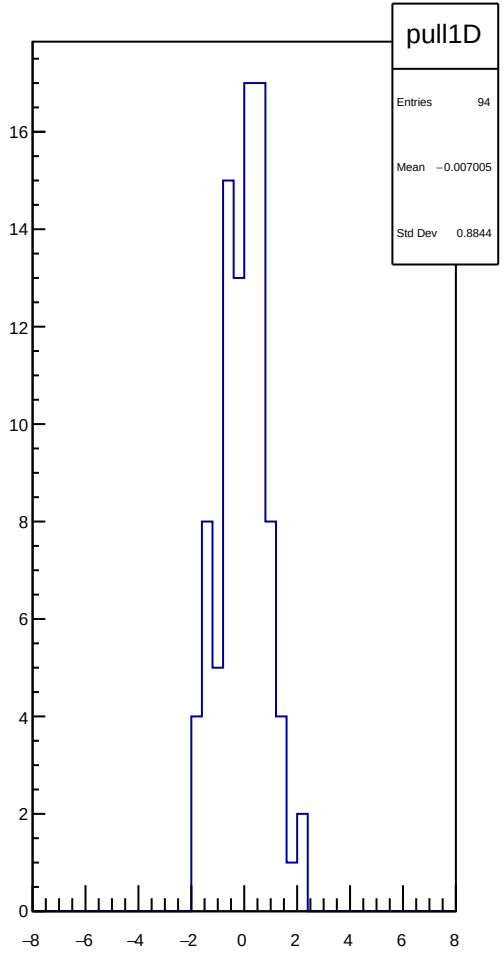

asym_us_dd_reg_correction_rms vs run
χ² / ndf 3673 / 93
p0 563.2 ± 0.4208
640
620
600
580
560
540
520
500

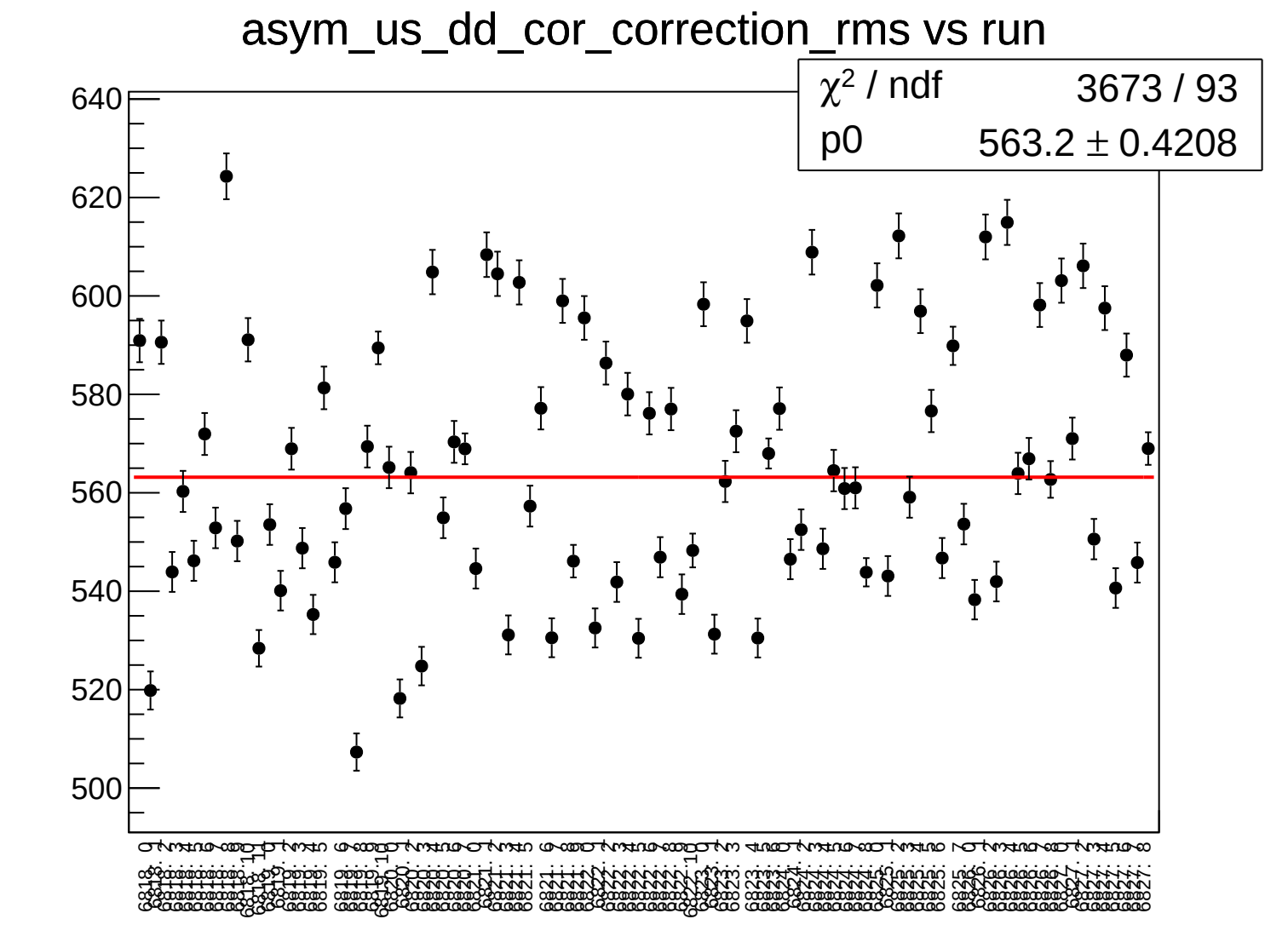

cor_asym_us_dd_mean vs run
χ² / ndf 109.2 / 93
p0 −342.7 ± 813.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1316
Std Dev 0
2
1
0
−1
−2
−3

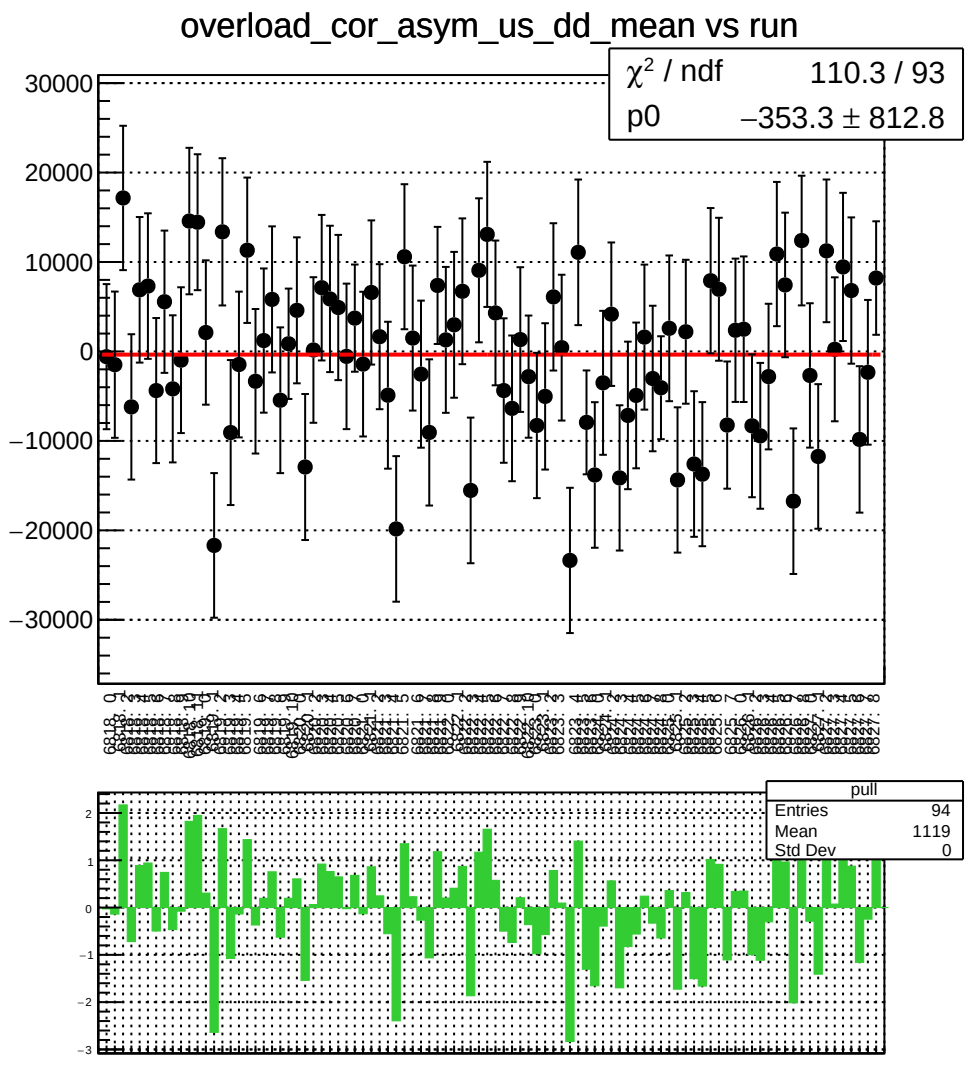

pull1D
Entries 94
Mean −0.003217
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

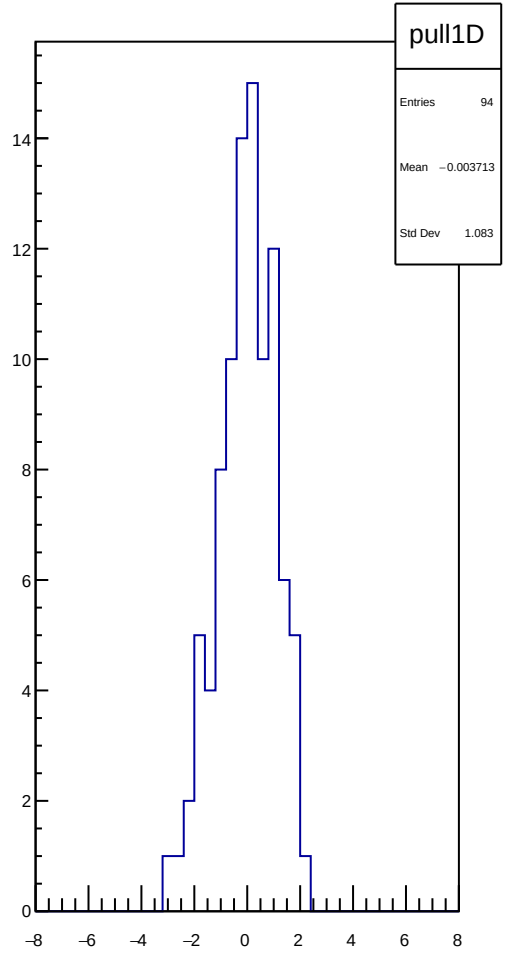

cor_asym_us_dd_rms vs run
χ² / ndf 94.37 / 93
p0 770.6 ± 0.5752
790
780
770
760
750

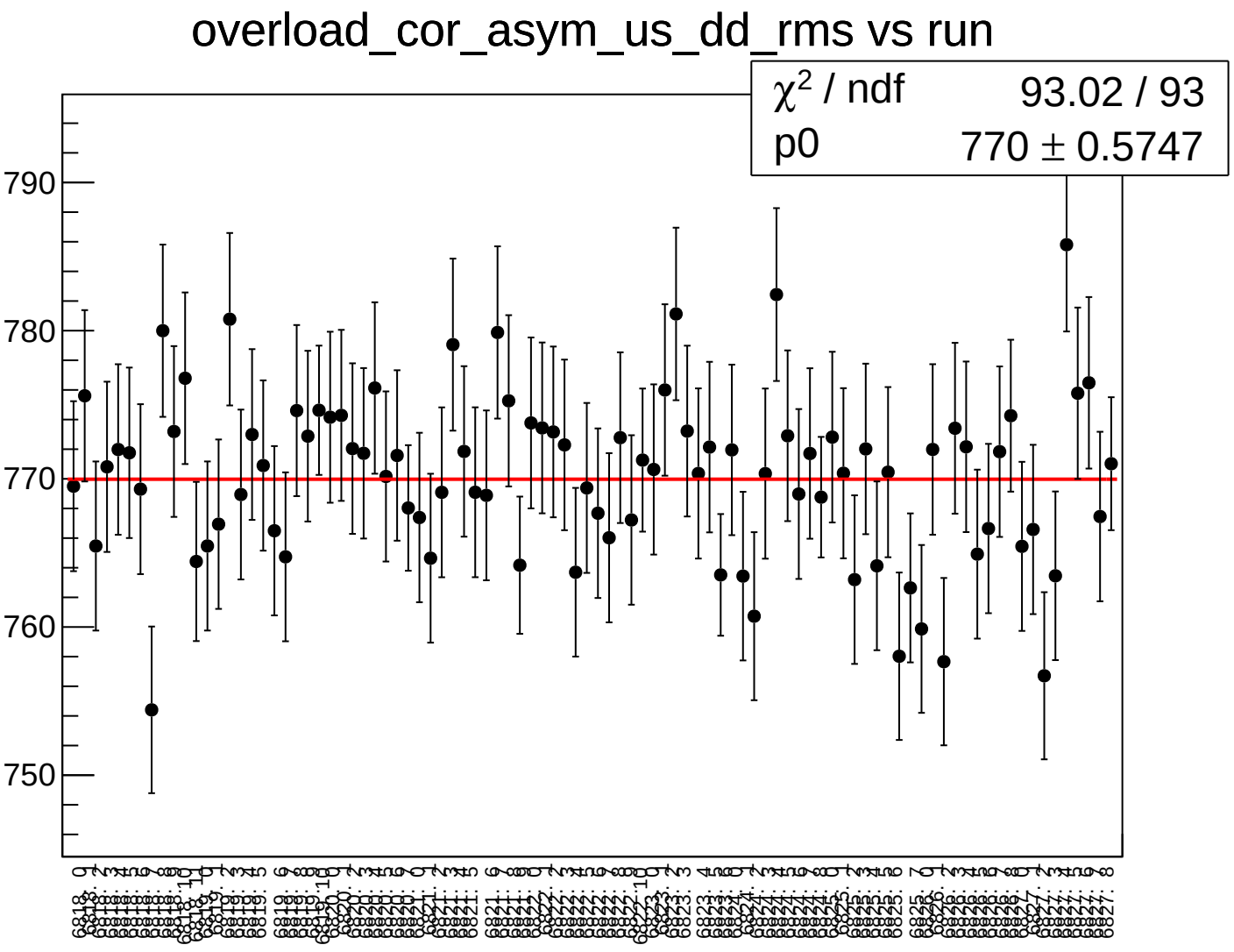

asym_us_dd_cor_correction_mean vs run
χ² / ndf 73.52 / 93
p0 −837.7 ± 595
pull
Entries 94
Mean −282.5
Std Dev 0

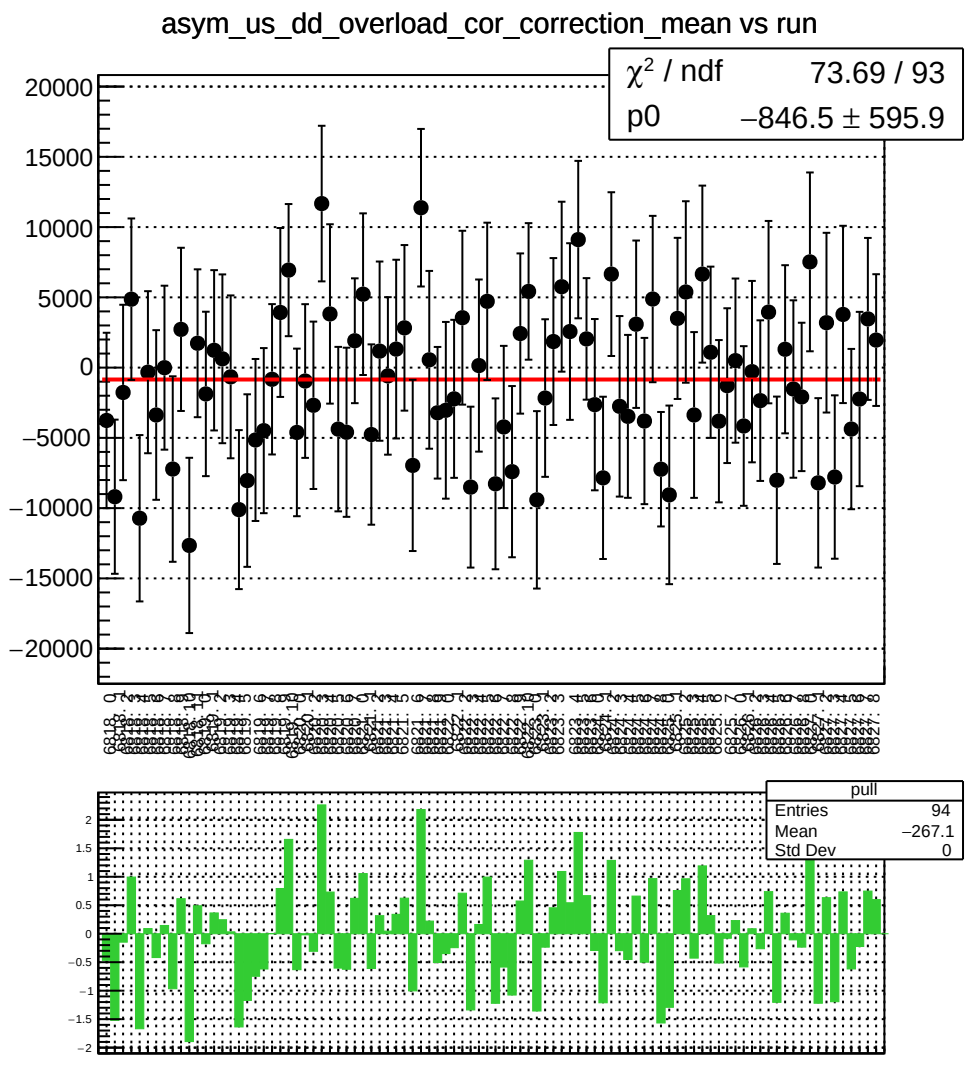

pull1D
Entries 94
Mean −0.007005
Std Dev 0.8844

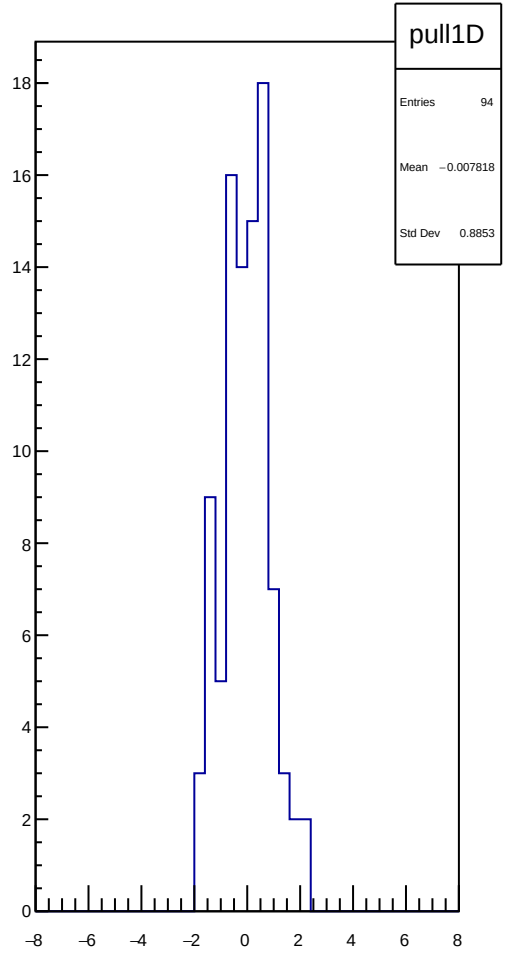

asym_us_dd_cor_correction_rms vs run
χ² / ndf 3673 / 93
p0 563.2 ± 0.4208
640
620
600
580
560
540
520
500

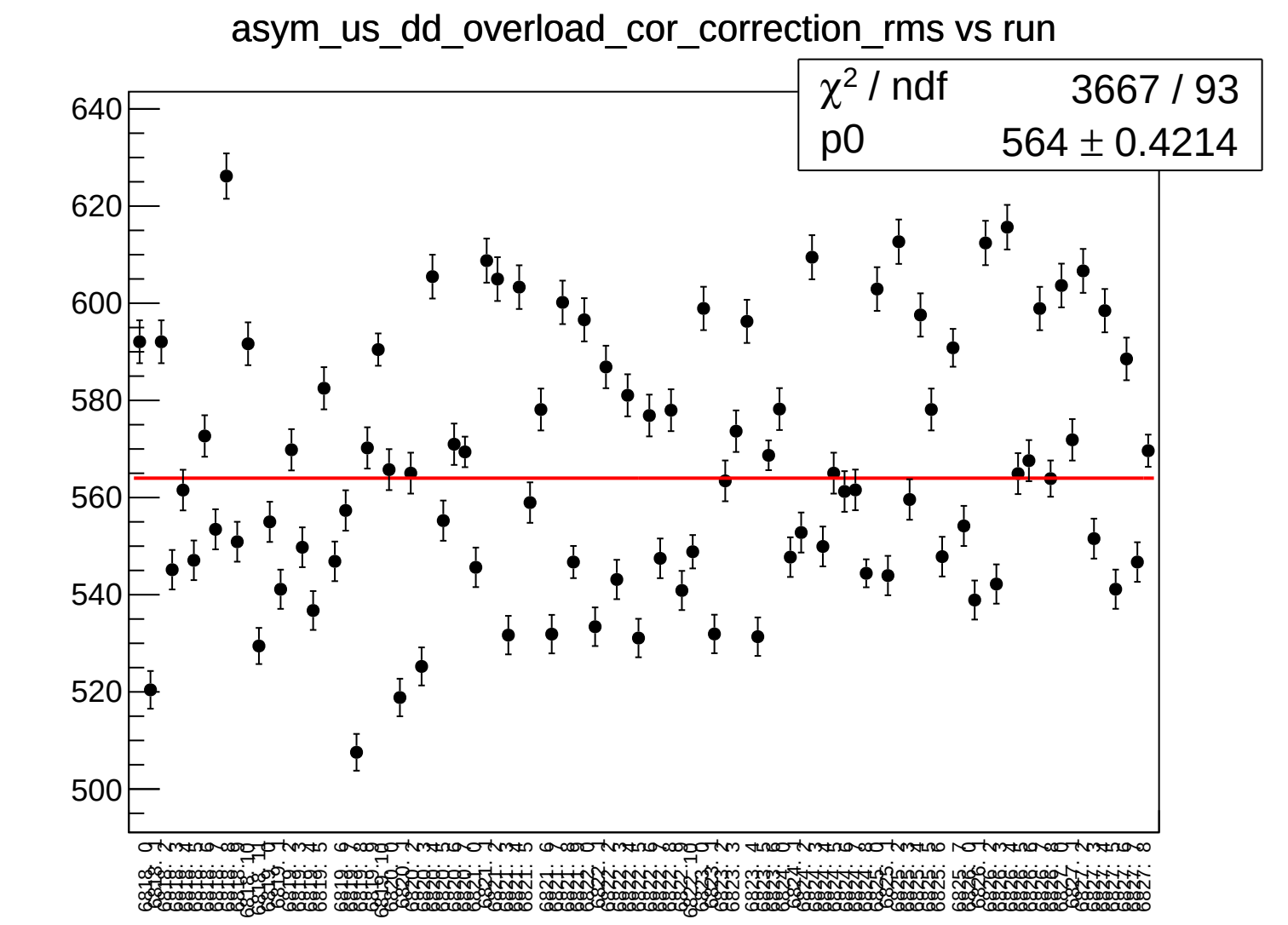

overload_cor_asym_us_dd_mean vs run
χ² / ndf 110.3 / 93
p0 −353.3 ± 812.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1119
Std Dev 0
2
1
0
−1
−2
−3

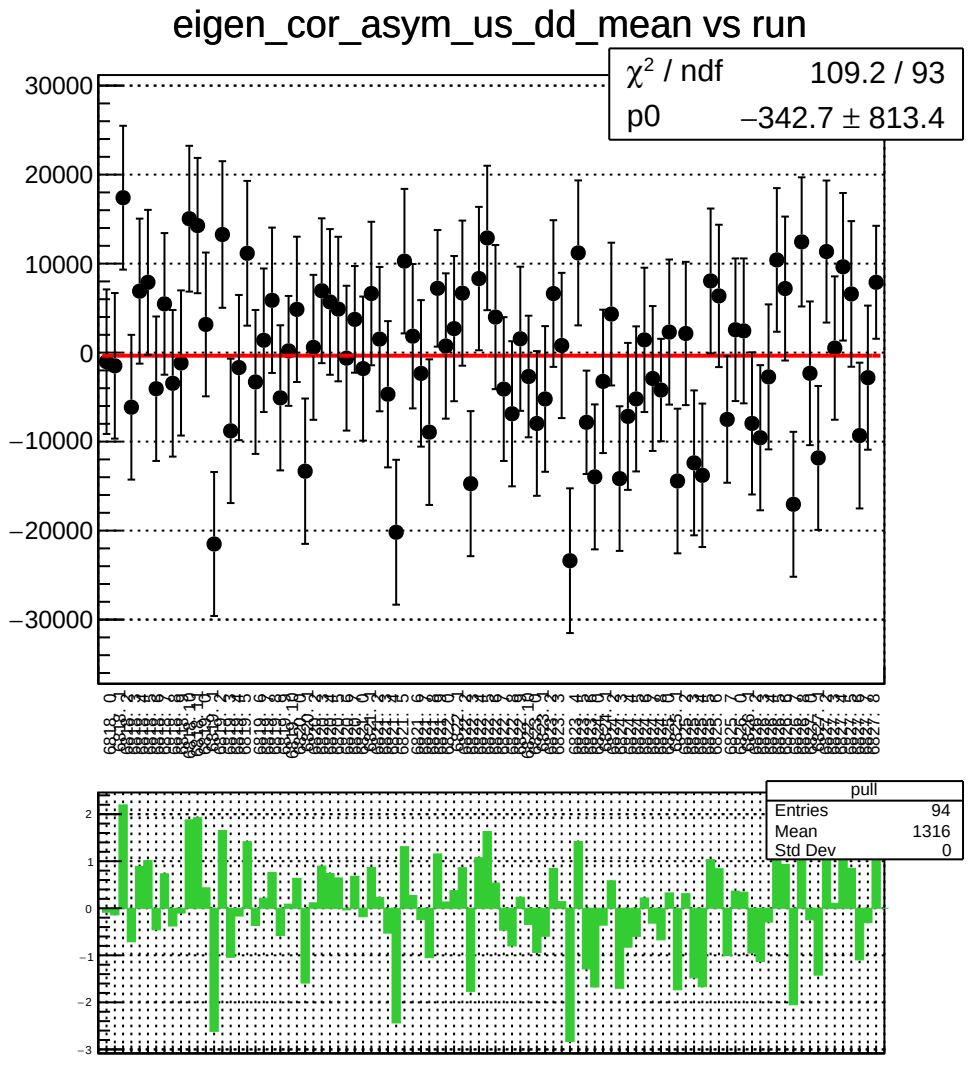

pull1D
Entries 94
Mean −0.003713
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

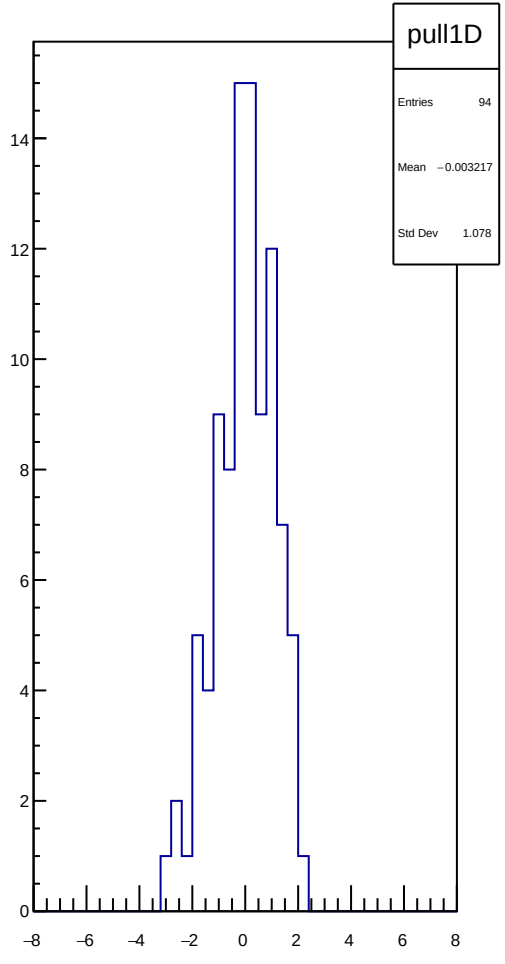

overload_cor_asym_us_dd_rms vs run
χ² / ndf 93.02 / 93
p0 770 ± 0.5747
790
780
770
760
750

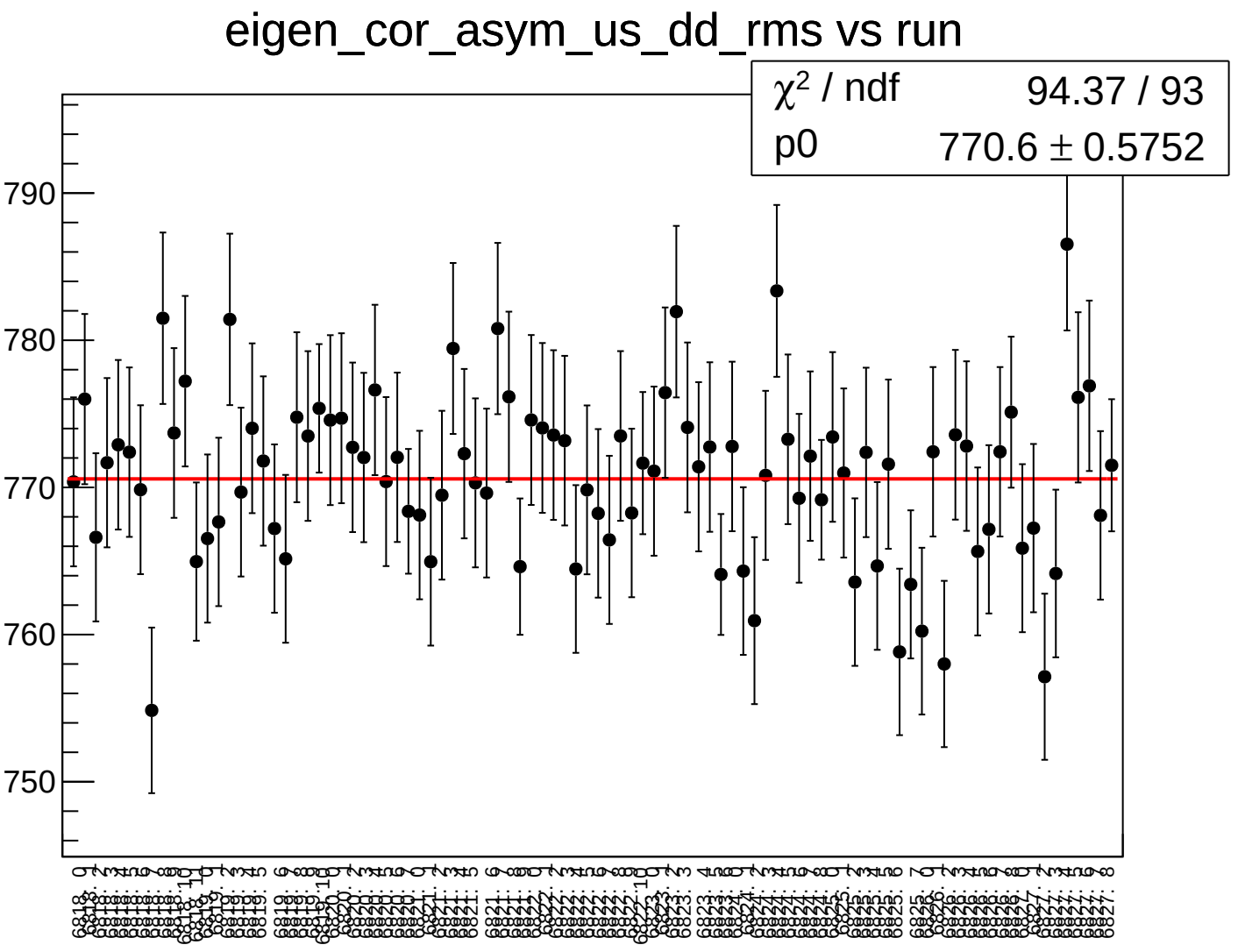

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 73.69 / 93
p0 −846.5 ± 595.9
pull
Entries 94
Mean −267.1
Std Dev 0

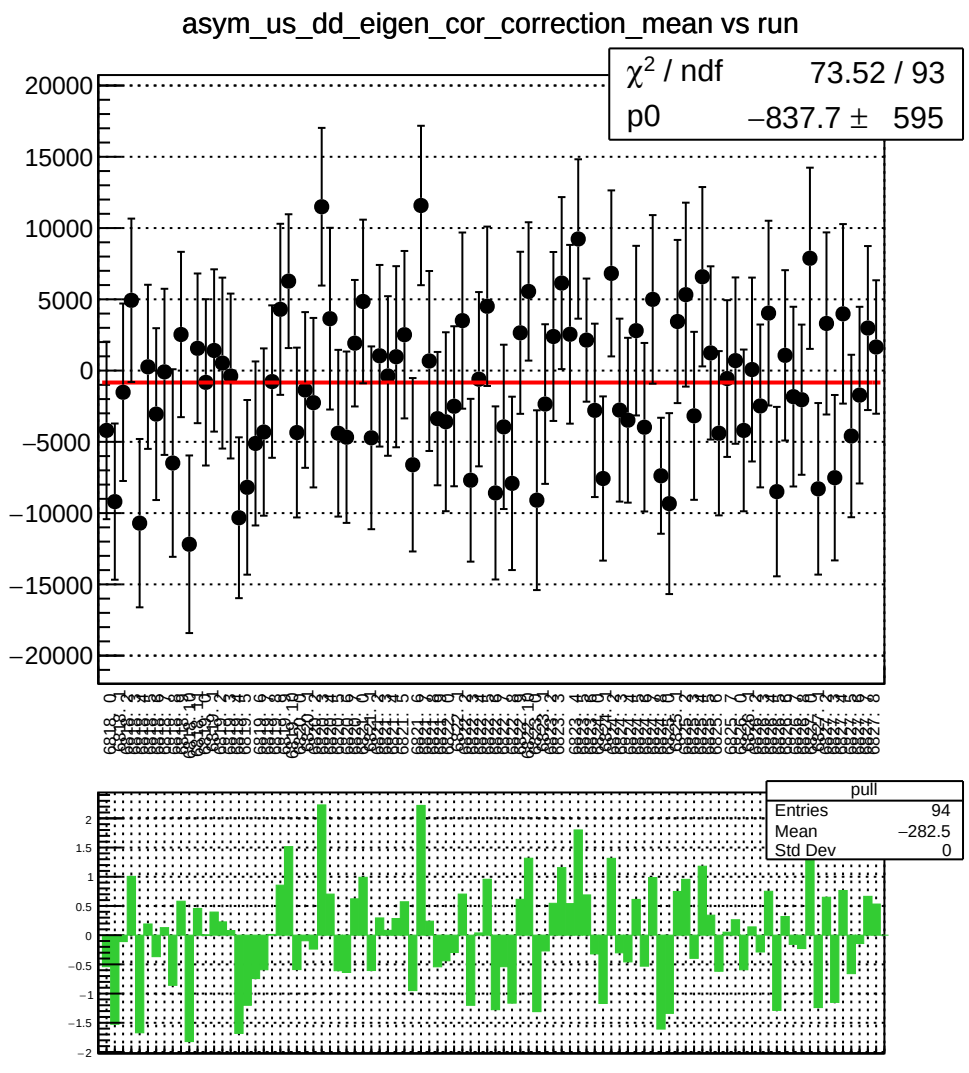

pull1D
Entries 94
Mean −0.007818
Std Dev 0.8853

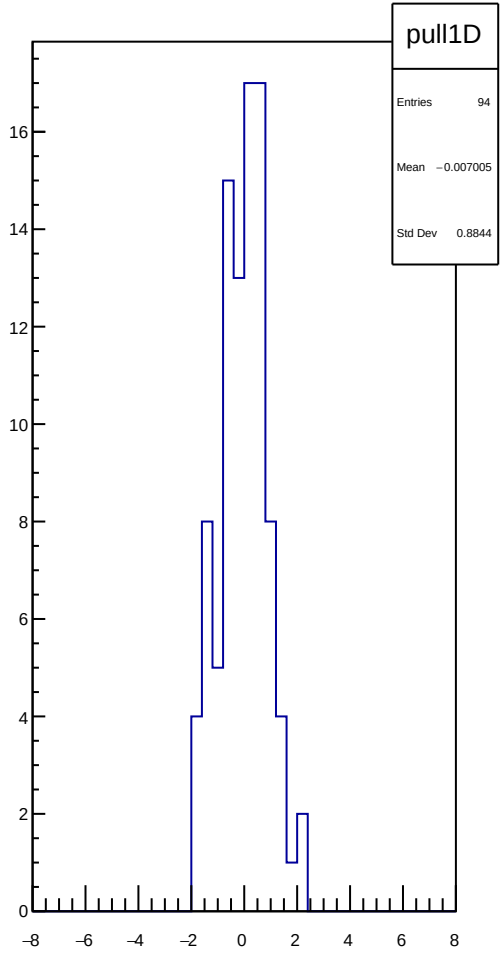

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 3667 / 93
p0 564 ± 0.4214
640
620
600
580
560
540
520
500

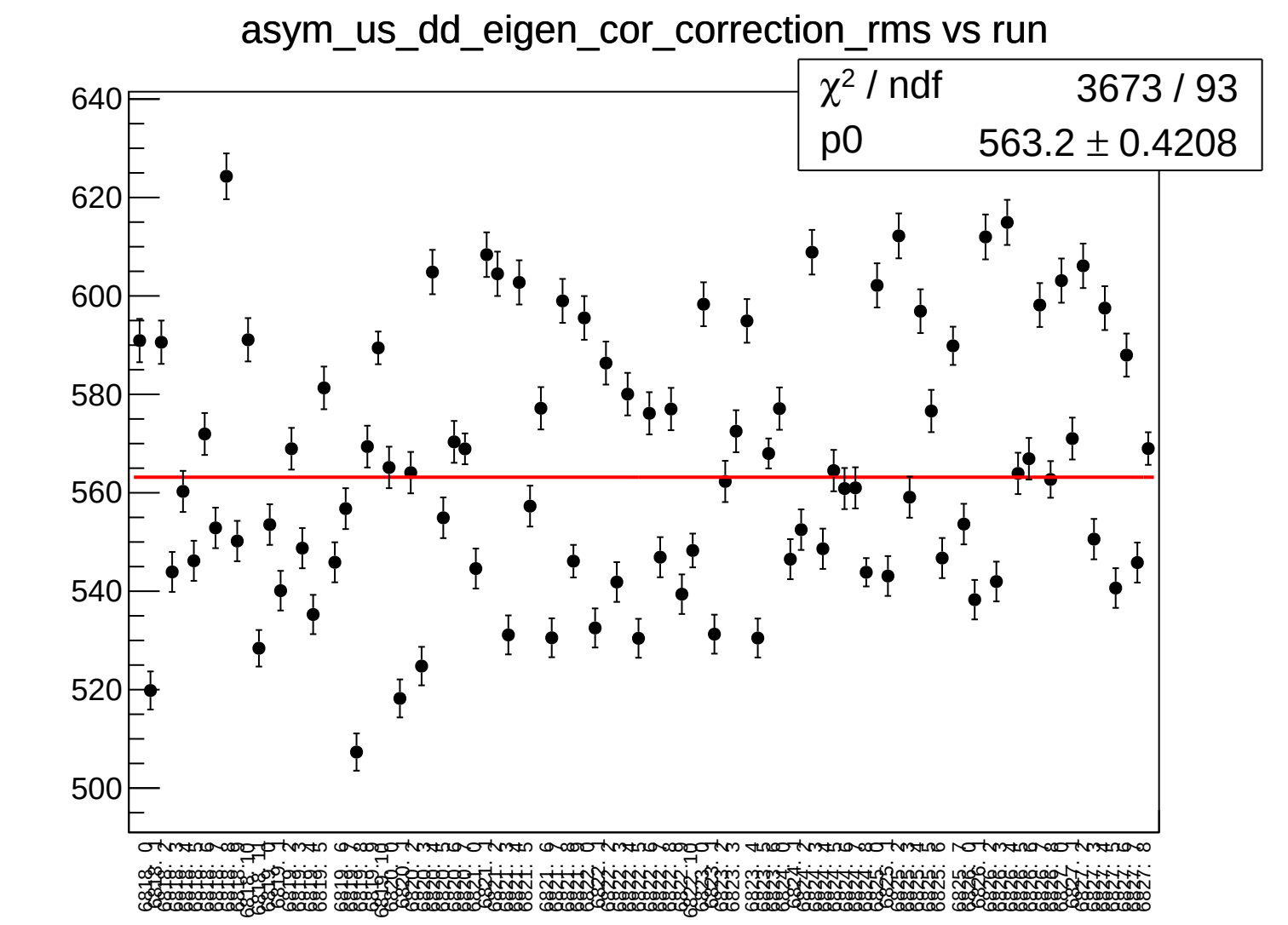

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 109.2 / 93
p0 −342.7 ± 813.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1316
Std Dev 0
2
1
0
−1
−2
−3

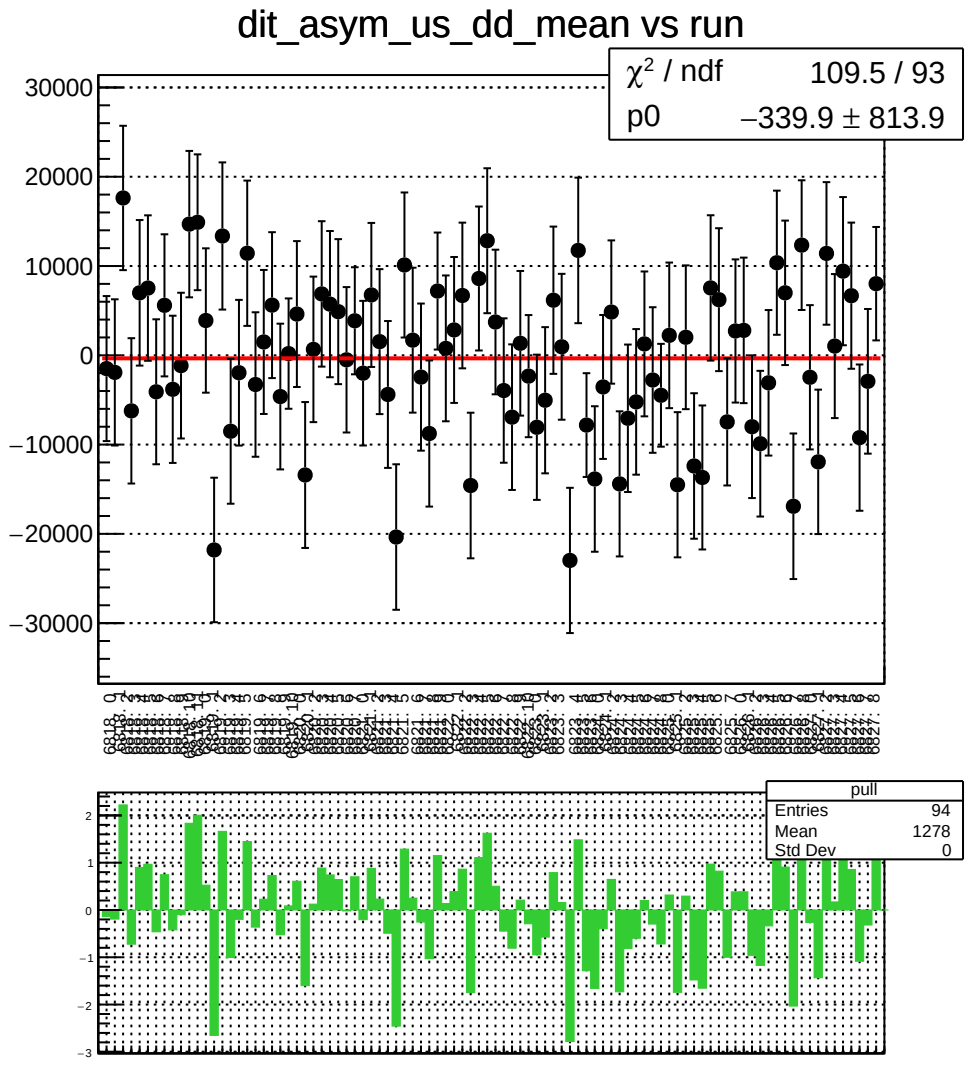

pull1D
Entries 94
Mean −0.003217
Std Dev 1.078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

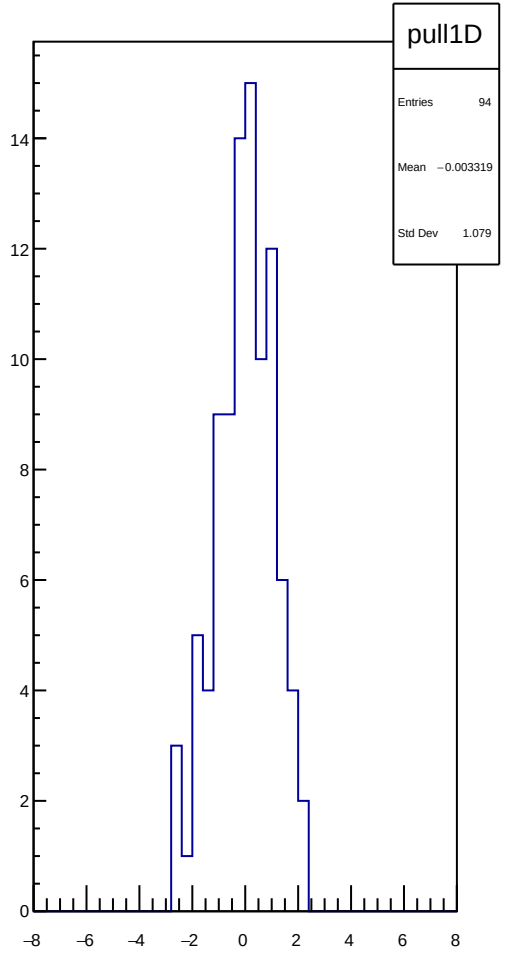

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 94.37 / 93
p0 770.6 ± 0.5752
790
780
770
760
750

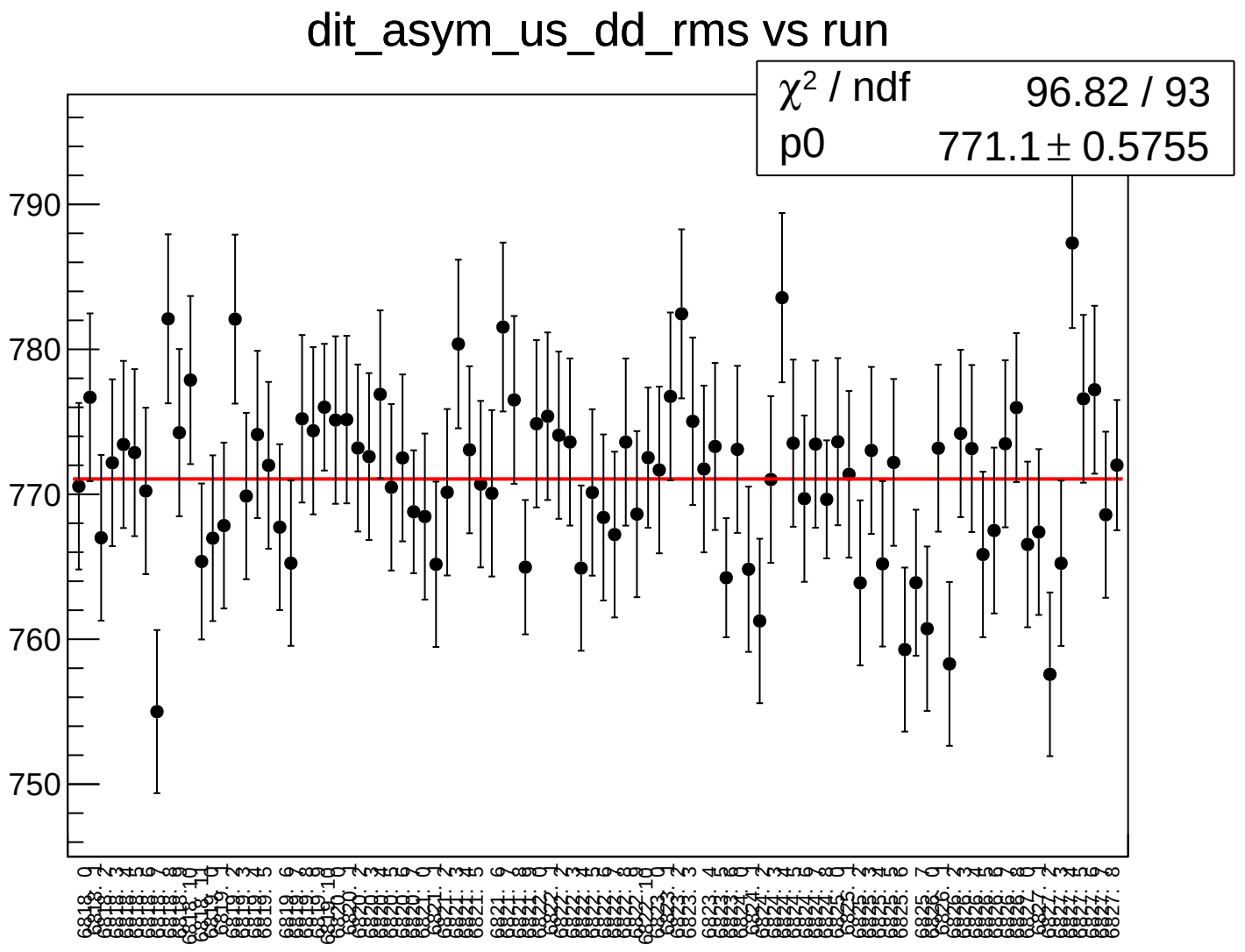

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.52 / 93
p0 −837.7 ± 595
pull
Entries 94
Mean −282.5
Std Dev 0

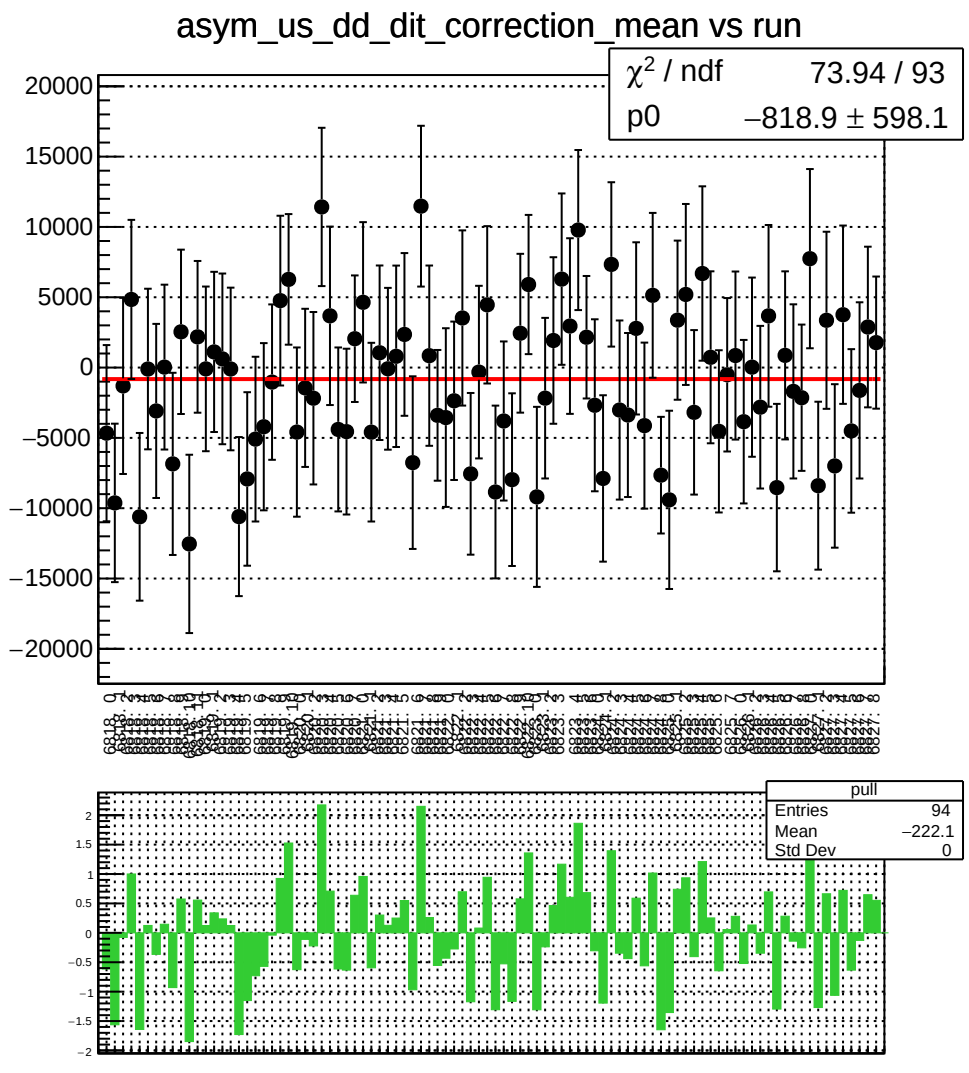

pull1D
Entries 94
Mean −0.007005
Std Dev 0.8844

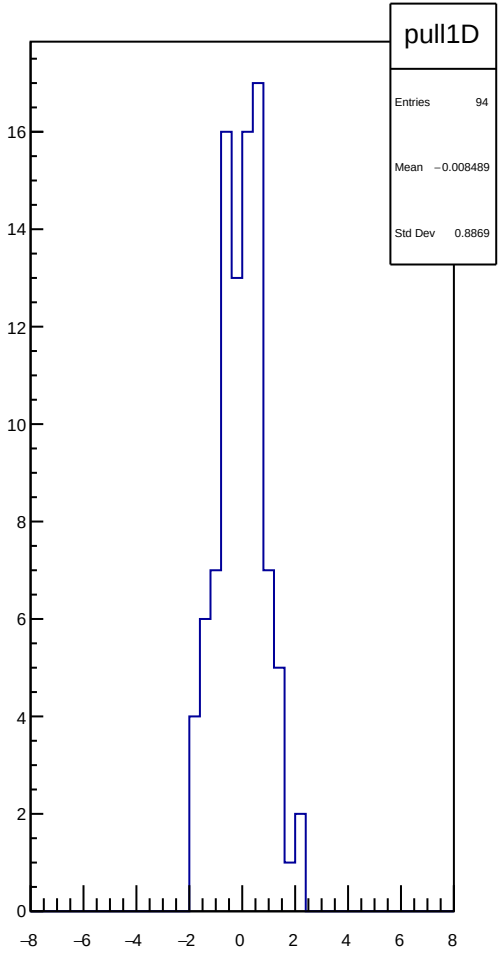

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 3673 / 93
p0 563.2 ± 0.4208
640
620
600
580
560
540
520
500

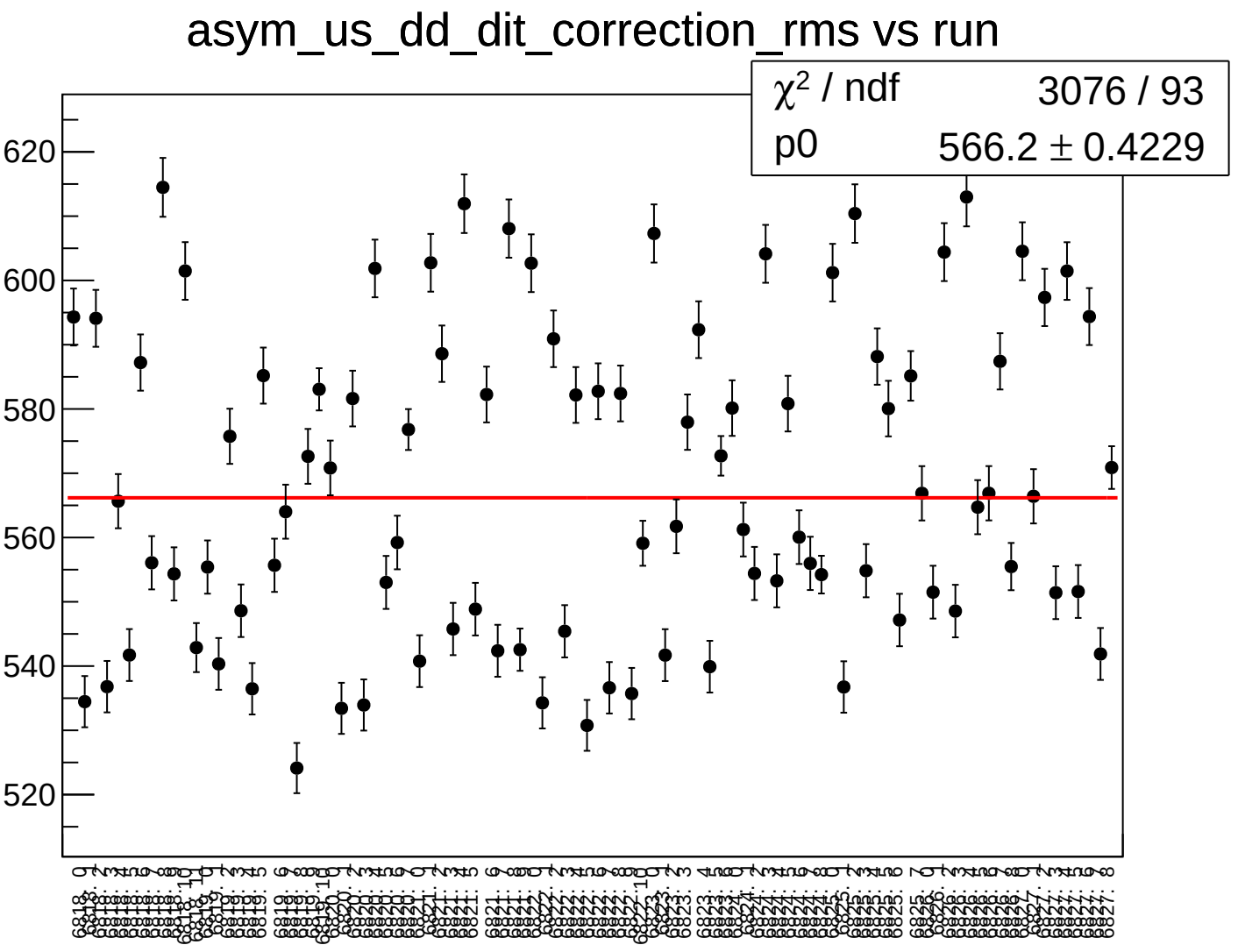

dit_asym_us_dd_mean vs run
χ² / ndf 109.5 / 93
p0 −339.9 ± 813.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1278
Std Dev 0
2
1
0
−1
−2
−3

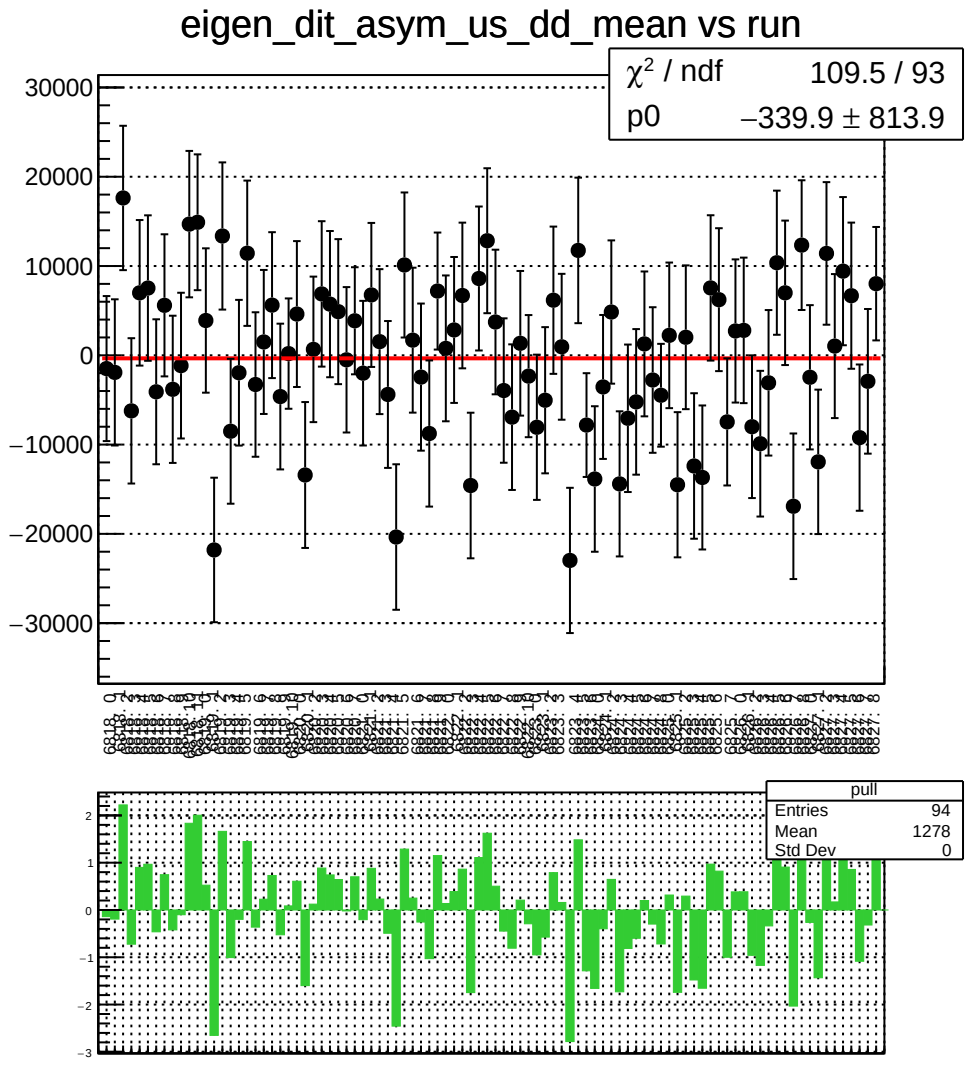

pull1D
Entries 94
Mean −0.003319
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

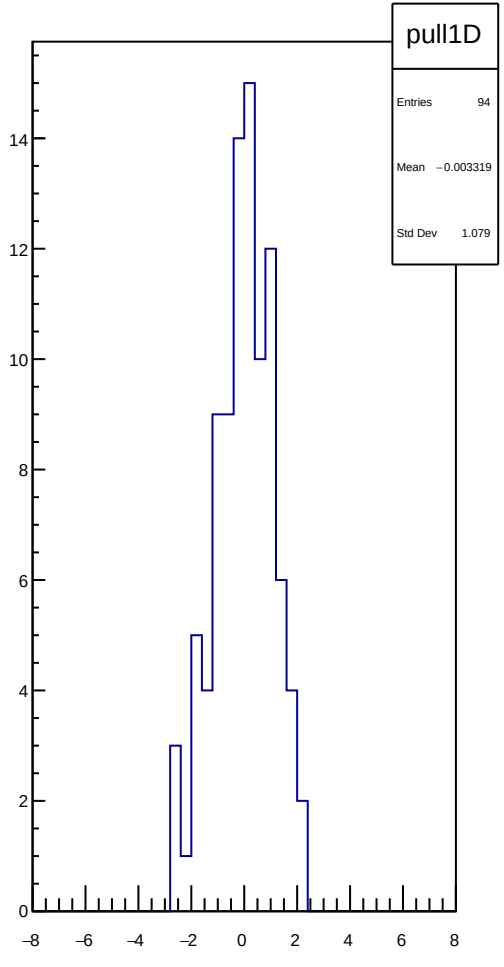

dit_asym_us_dd_rms vs run
χ² / ndf 96.82 / 93
p0 771.1 ± 0.5755
790
780
770
760
750

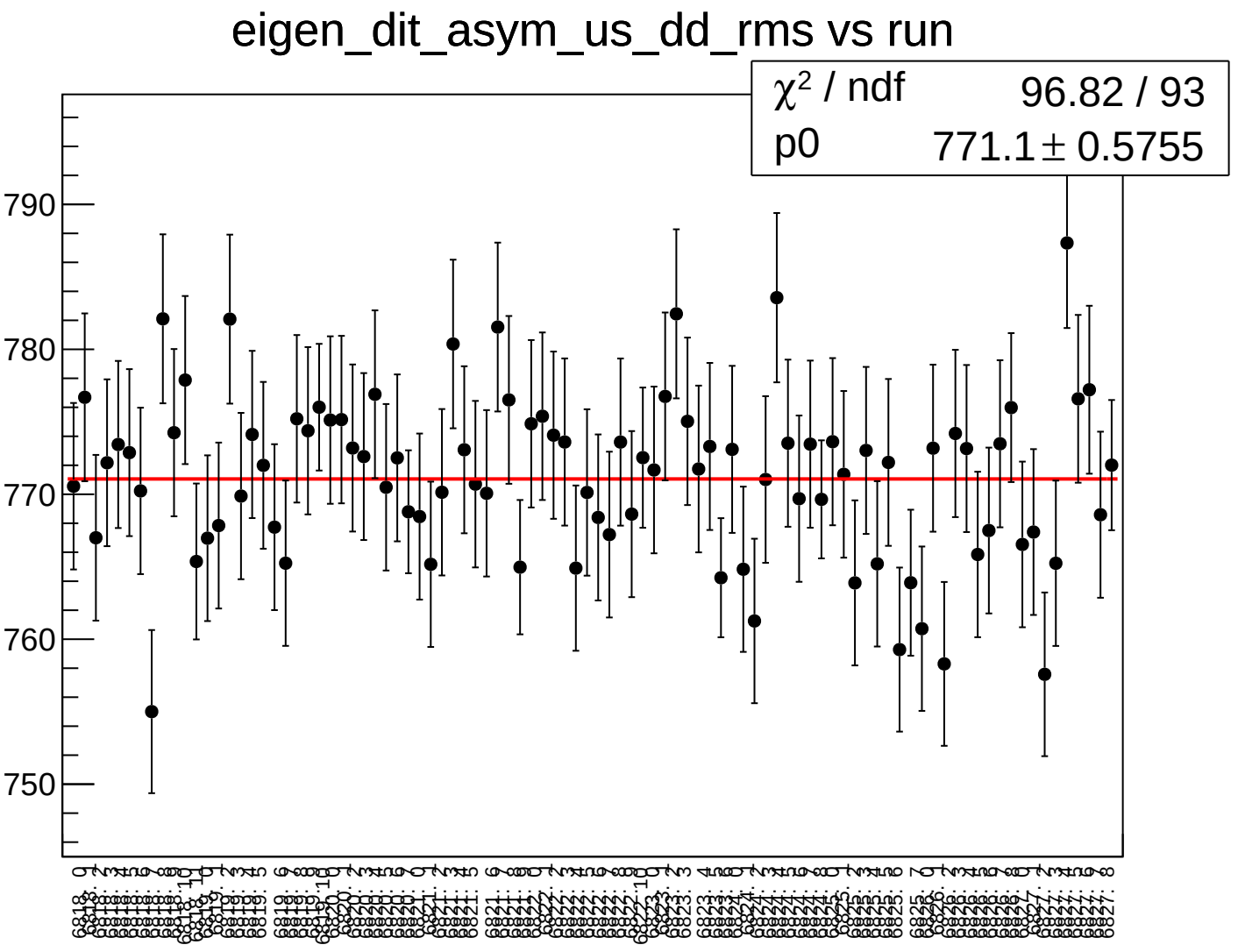

asym_us_dd_dit_correction_mean vs run
χ² / ndf 73.94 / 93
p0 −818.9 ± 598.1
pull
Entries 94
Mean −222.1
Std Dev 0

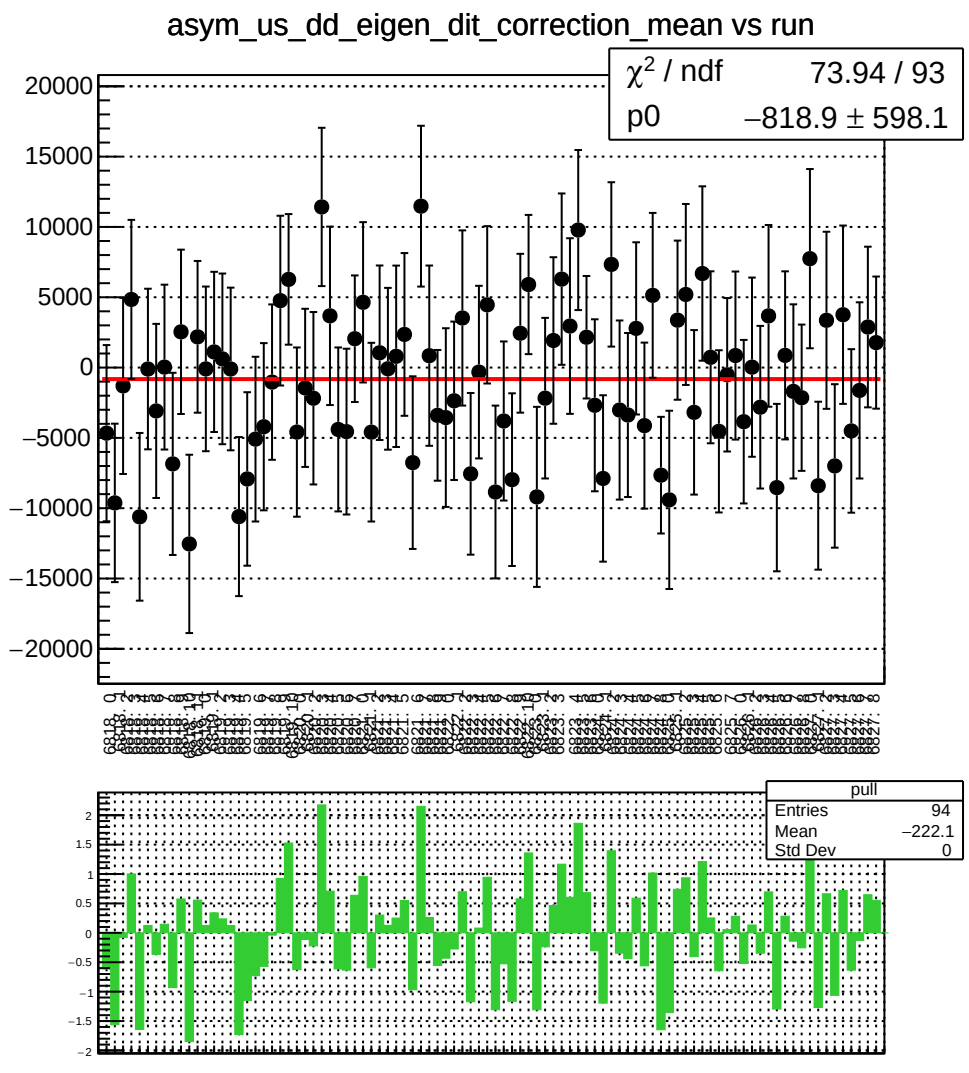

pull1D
Entries 94
Mean −0.008489
Std Dev 0.8869

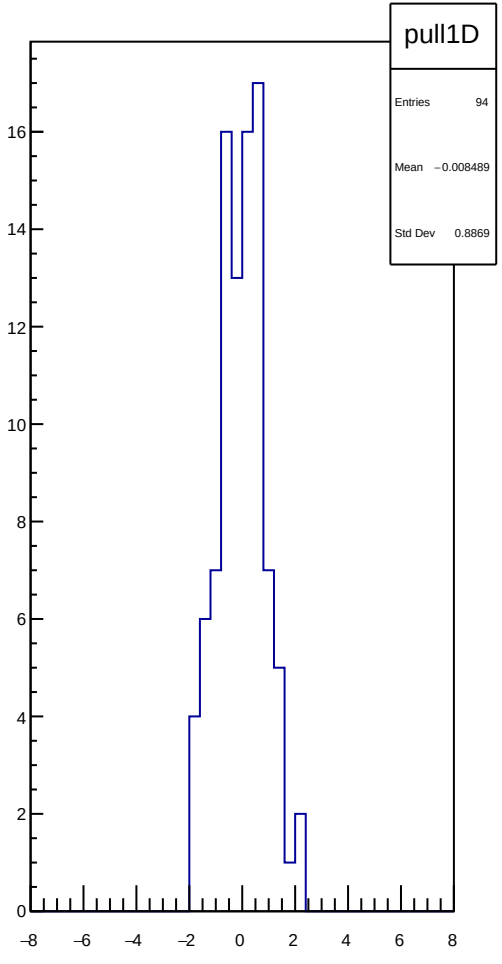

asym_us_dd_dit_correction_rms vs run
χ² / ndf 3076 / 93
p0 566.2 ± 0.4229
620
600
580
560
540
520

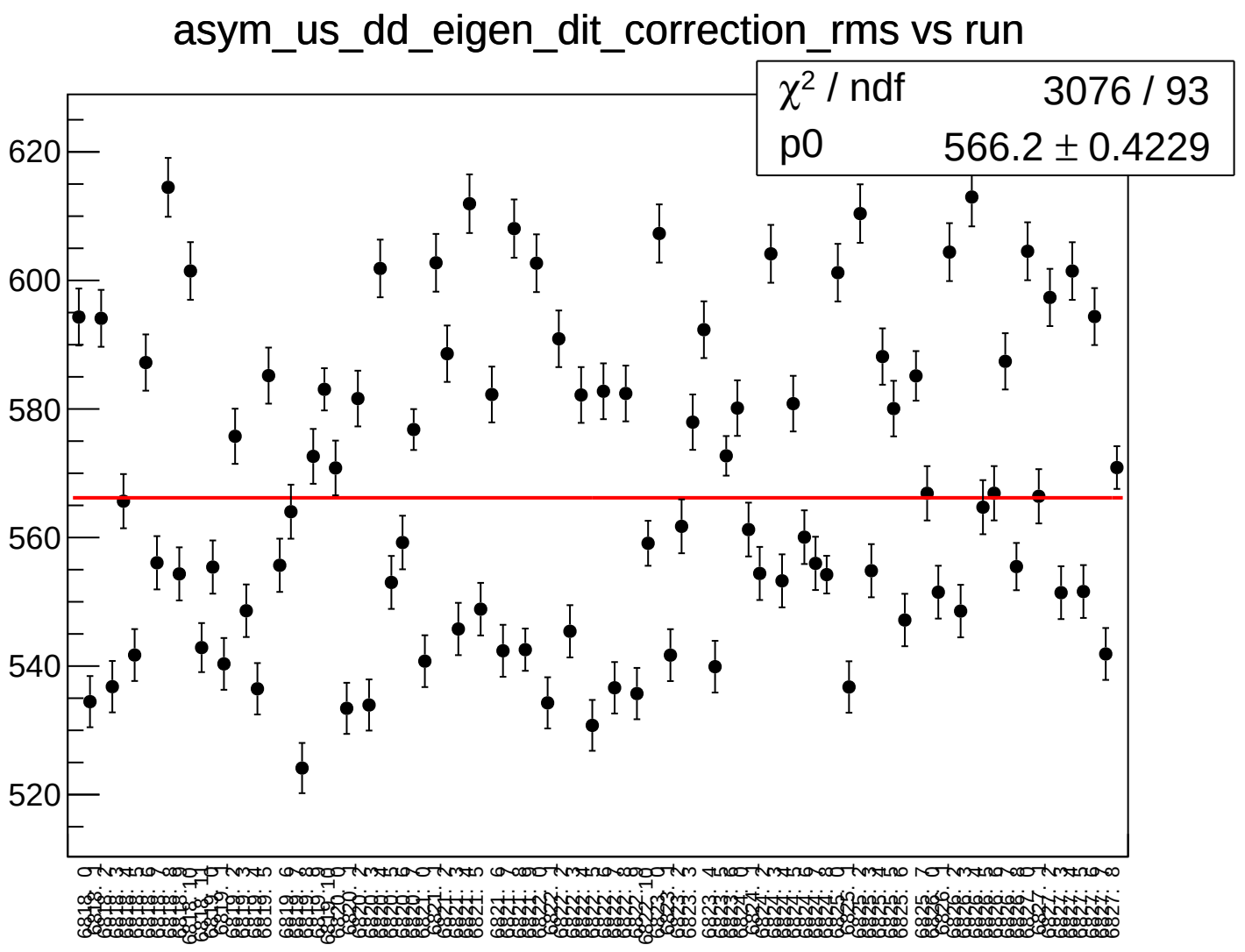

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 109.5 / 93
p0 −339.9 ± 813.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1278
Std Dev 0
2
1
0
−1
−2
−3

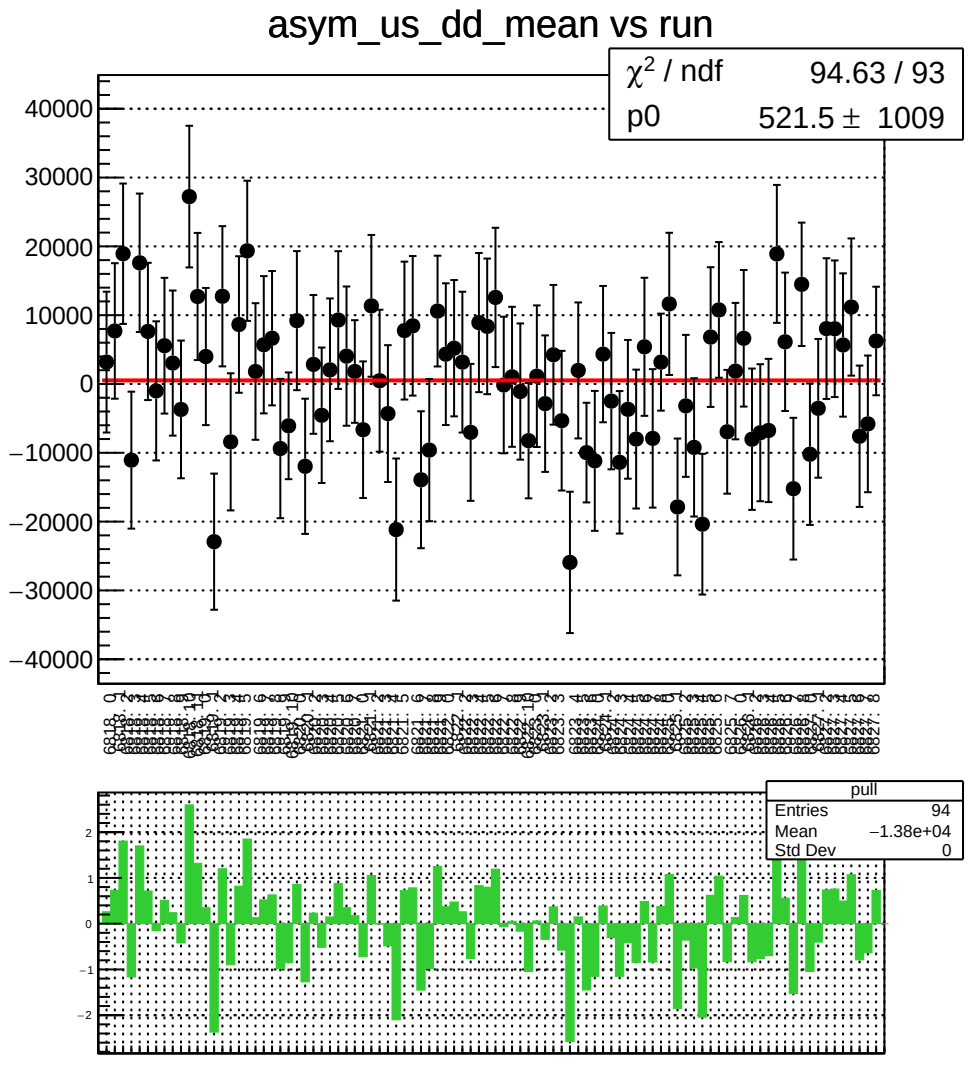

pull1D
Entries 94
Mean −0.003319
Std Dev 1.079
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

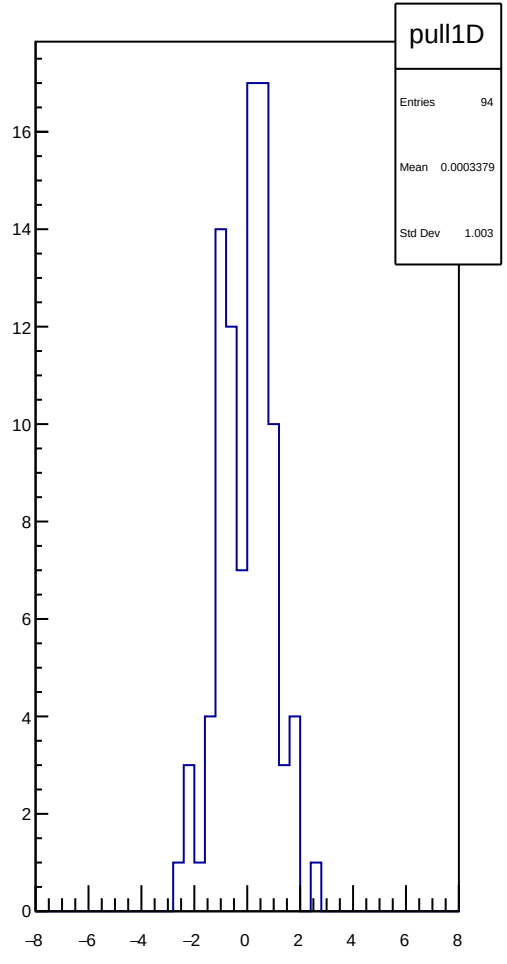

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 96.82 / 93
p0 771.1 ± 0.5755
790
780
770
760
750

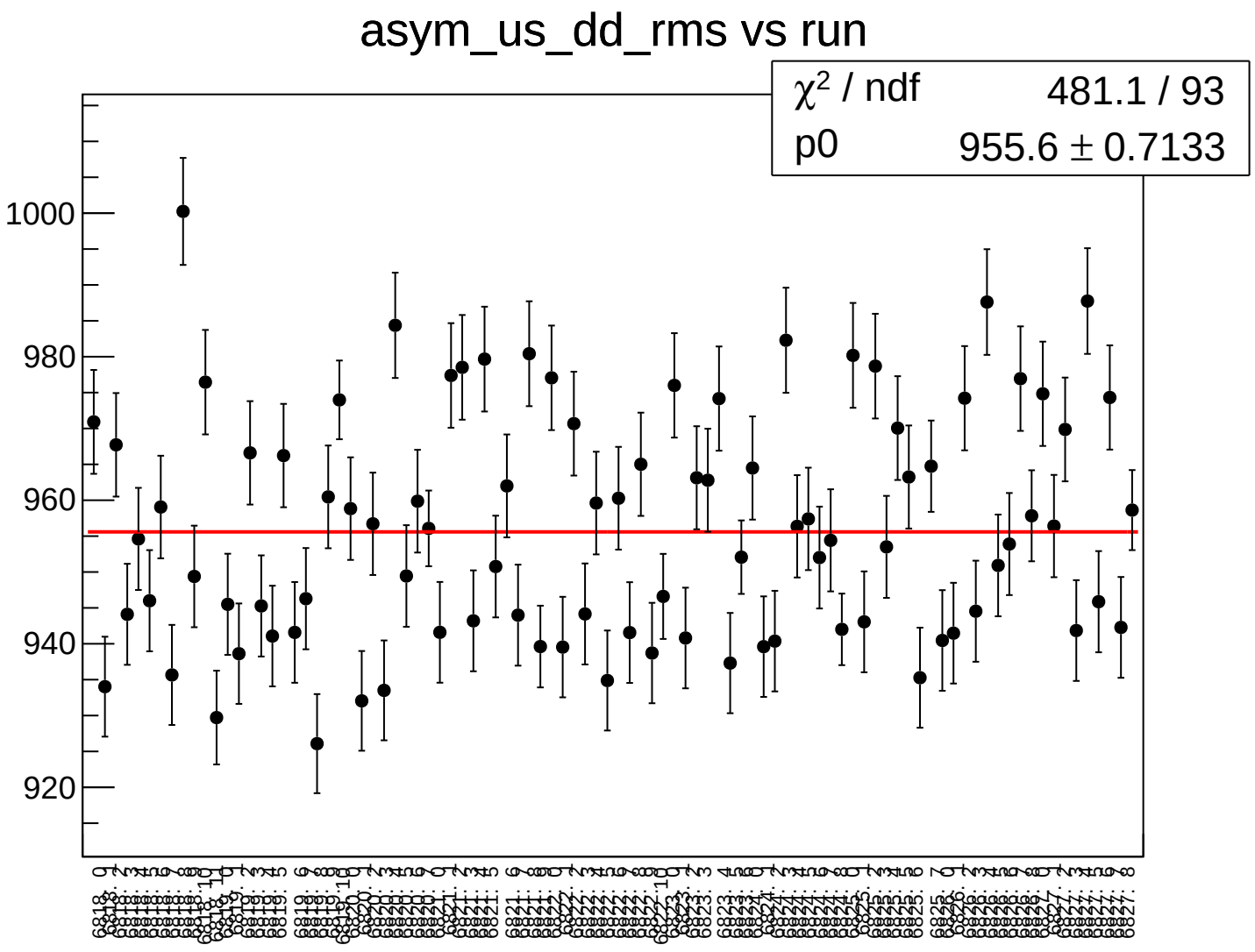

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.94 / 93
p0 −818.9 ± 598.1
pull
Entries 94
Mean −222.1
Std Dev 0

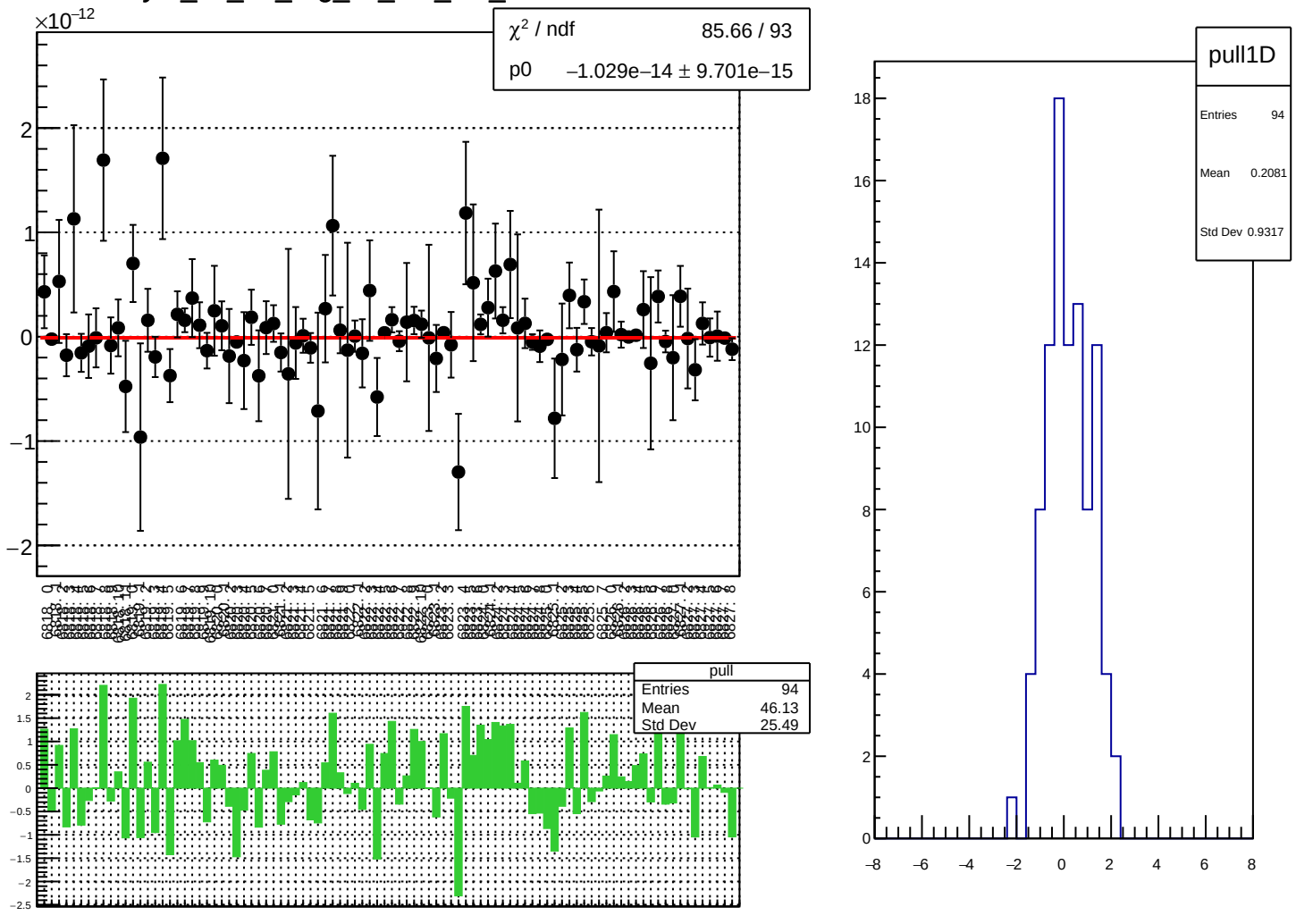

pull1D
Entries 94
Mean −0.008489
Std Dev 0.8869

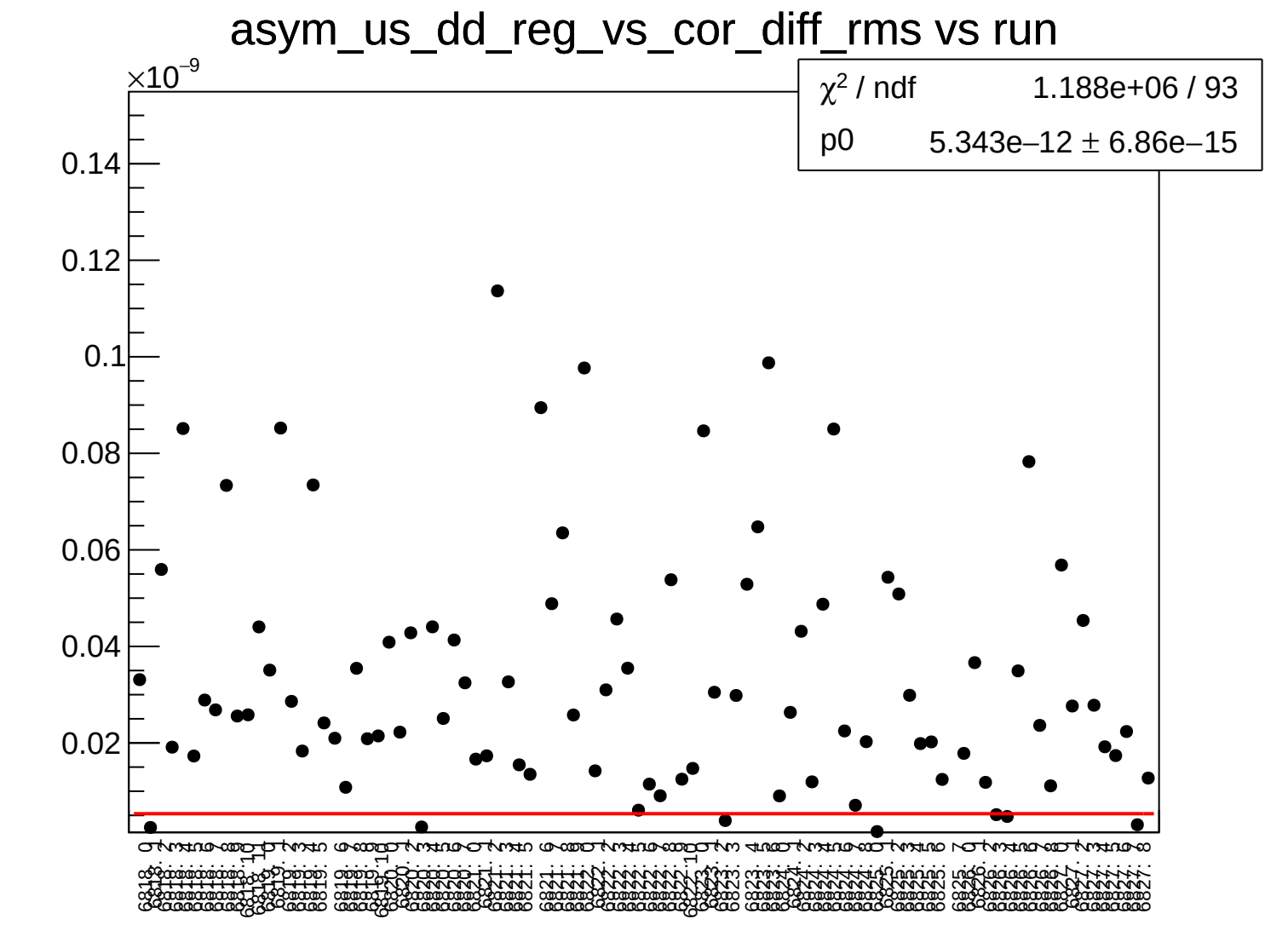

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 3076 / 93
p0 566.2 ± 0.4229
620
600
580
560
540
520

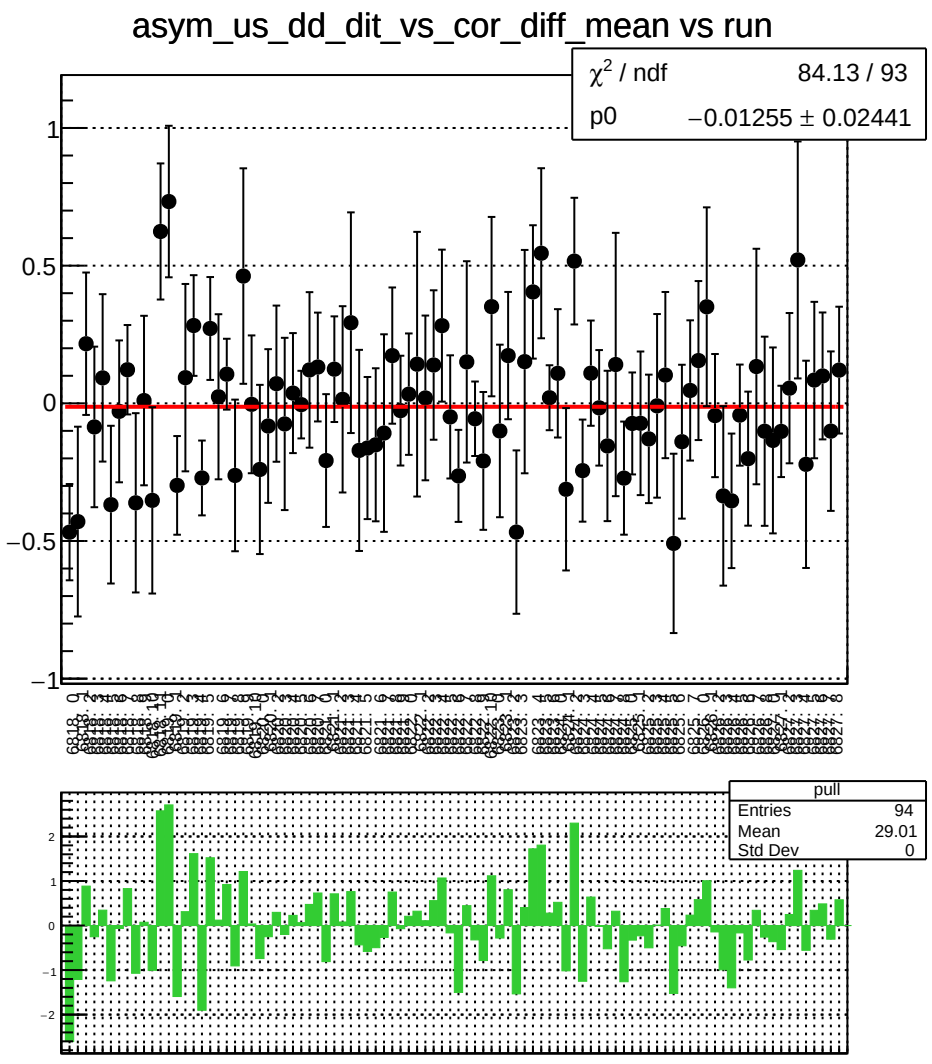

asym_us_dd_mean vs run
χ² / ndf 94.63 / 93
p0 521.5 ± 1009
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −1.38e+04
Std Dev 0
2
1
0
−1
−2

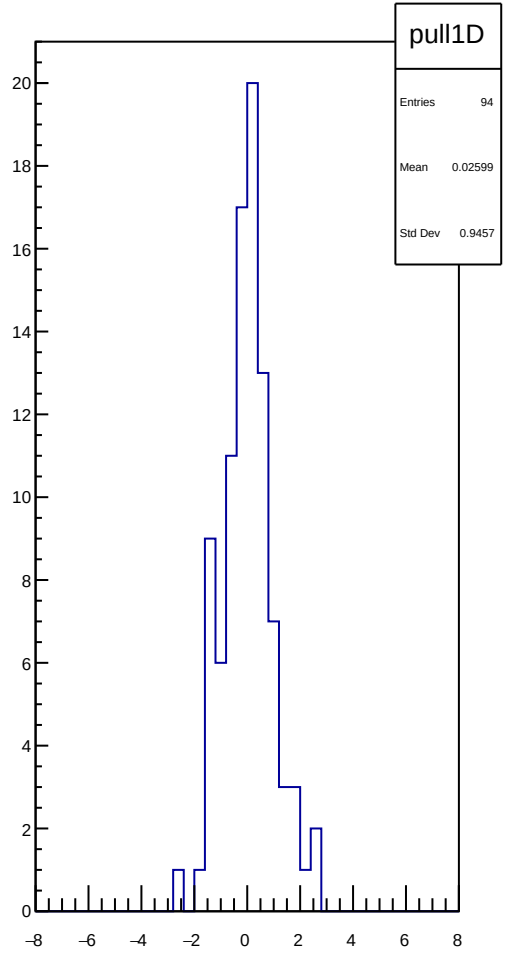

pull1D
Entries 94
Mean 0.0003379
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

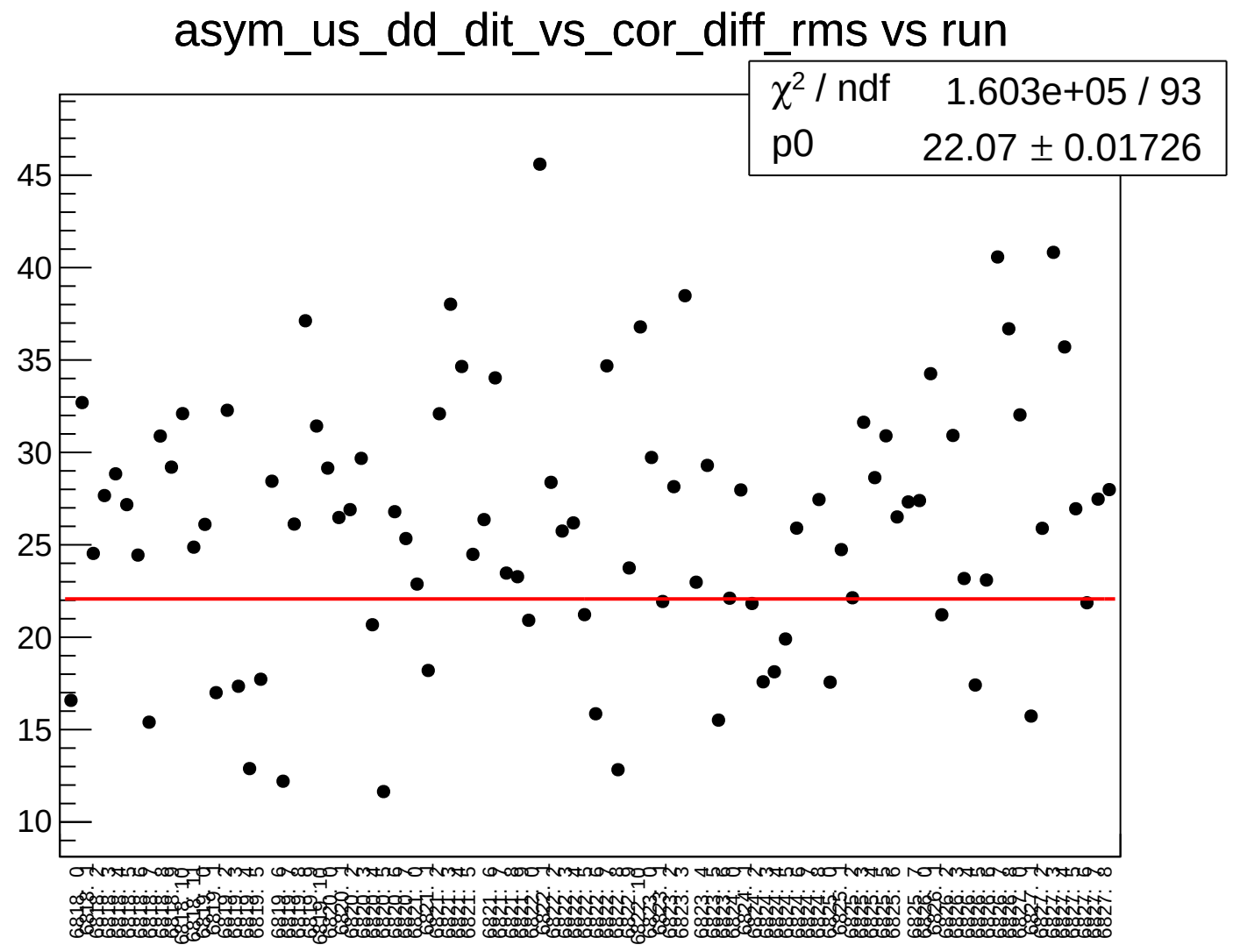

asym_us_dd_rms vs run
χ^2 / ndf 481.1 / 93
p0 955.6 ± 0.7133
1000
980
960
940
920

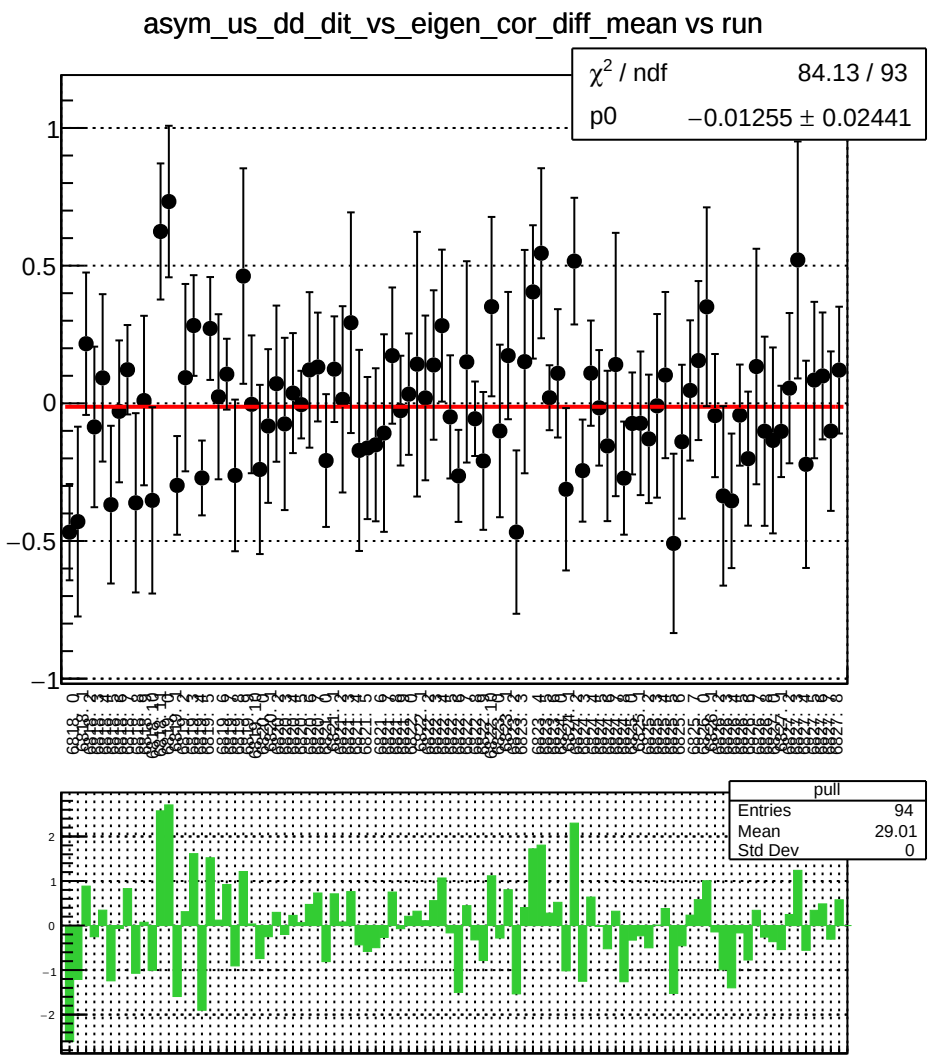

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.66 / 93
p0 −1.029e−14 ± 9.701e−15
pull
Entries 94
Mean 46.13
Std Dev 25.49
pull1D
Entries 94
Mean 0.2081
Std Dev 0.9317

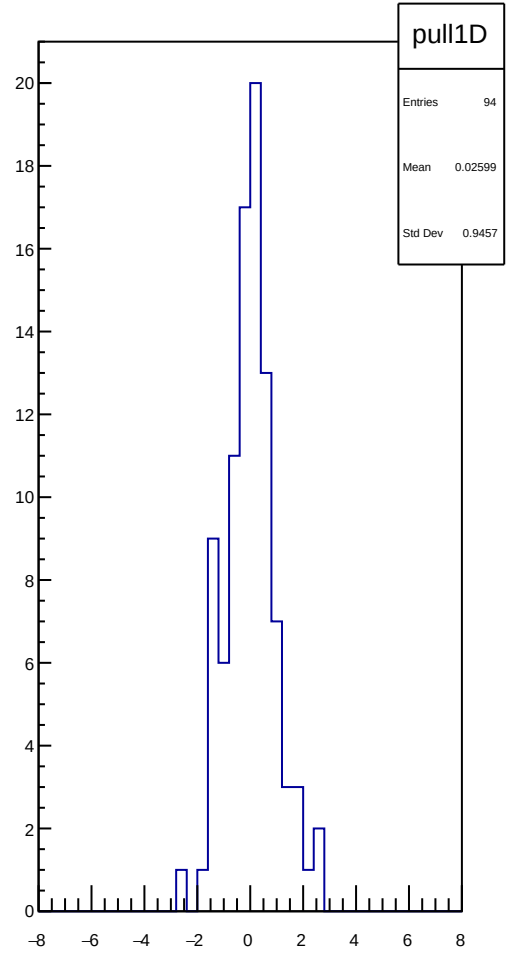

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.188e+06 / 93
p0 5.343e−12 ± 6.86e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

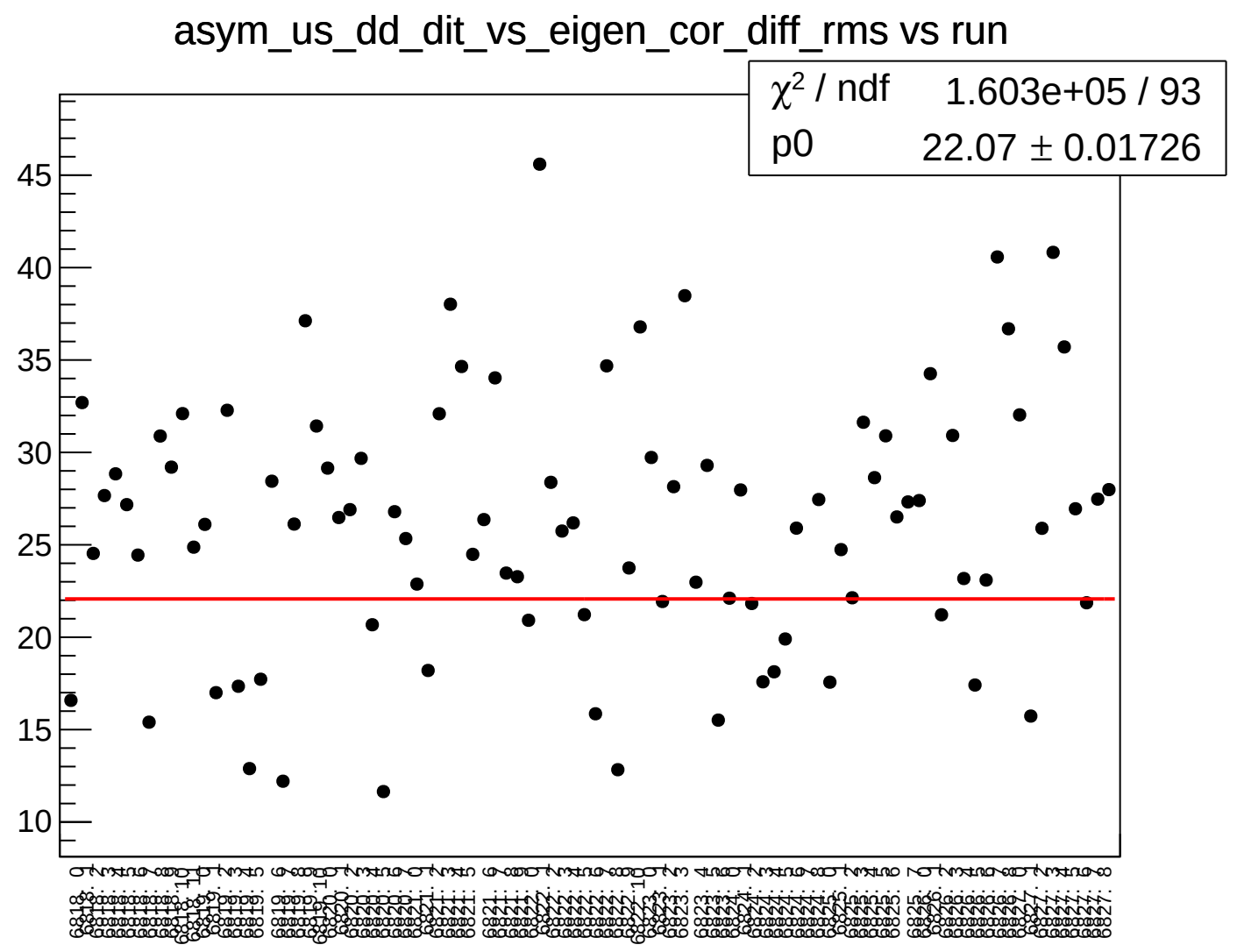

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 93
p0 −0.01255 ± 0.02441
pull
Entries 94
Mean 29.01
Std Dev 0

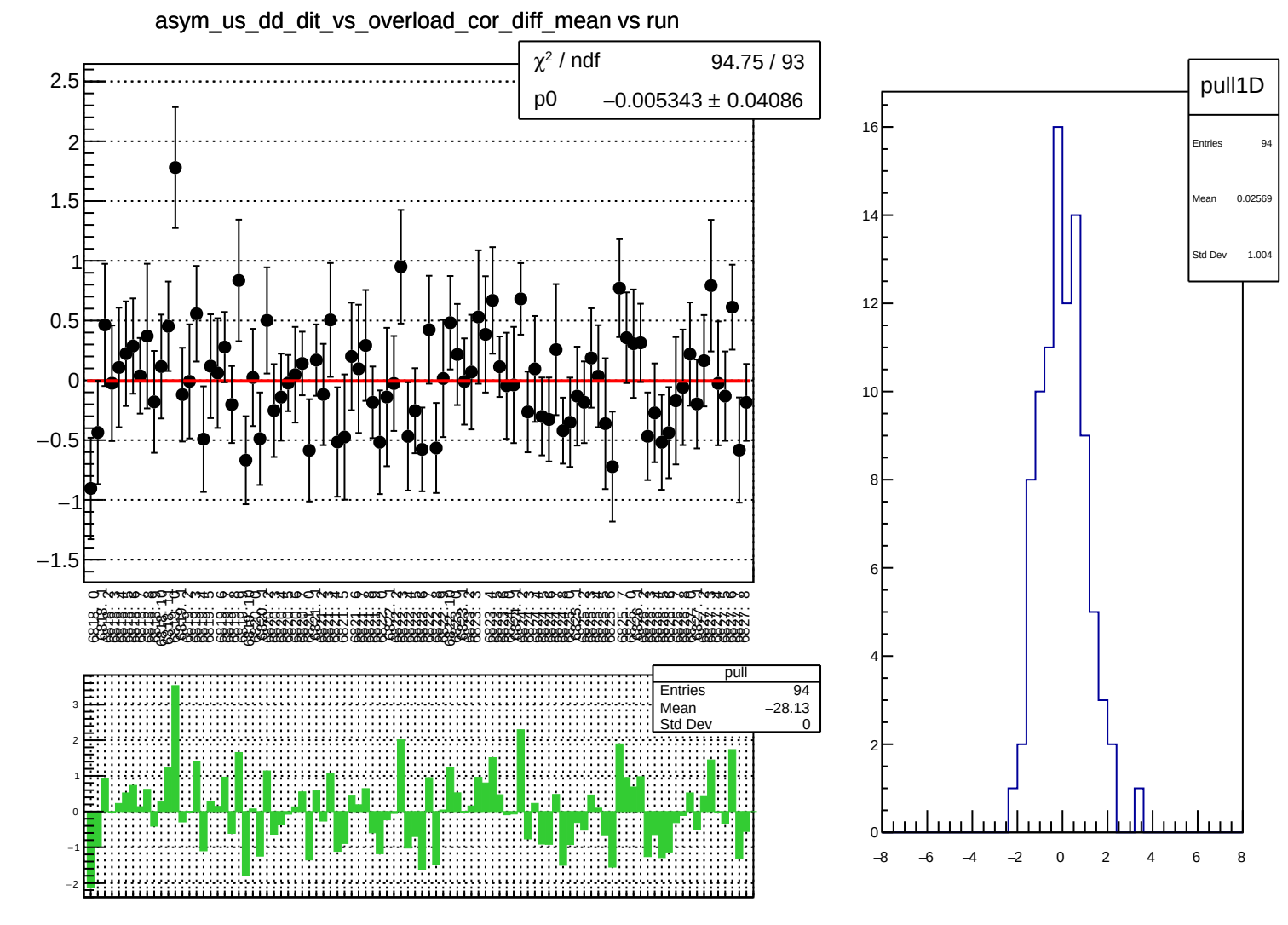

pull1D
Entries 94
Mean 0.02599
Std Dev 0.9457

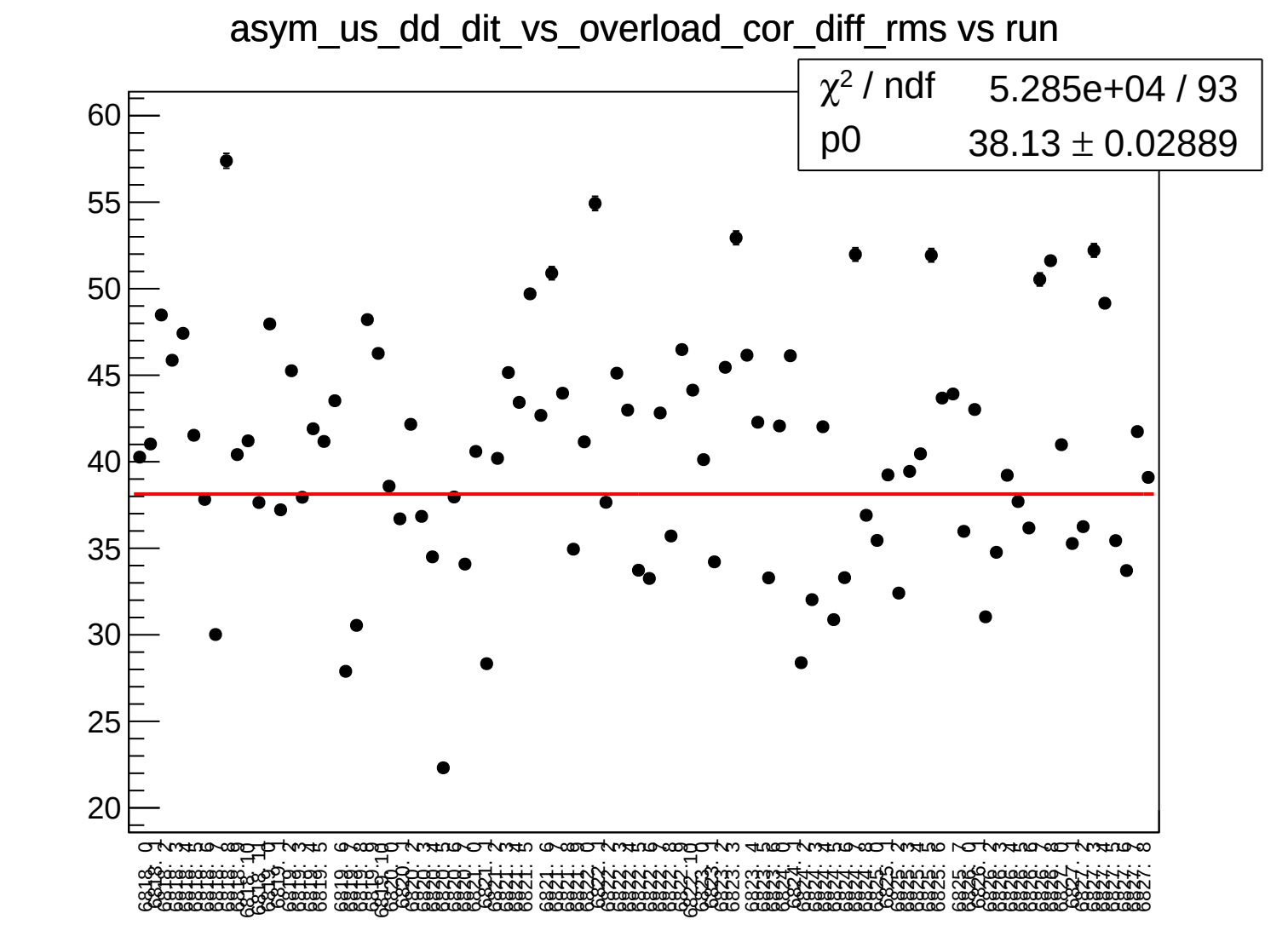

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.603e+05 / 93
p0 22.07 ± 0.01726
45
40
35
30
25
20
15
10

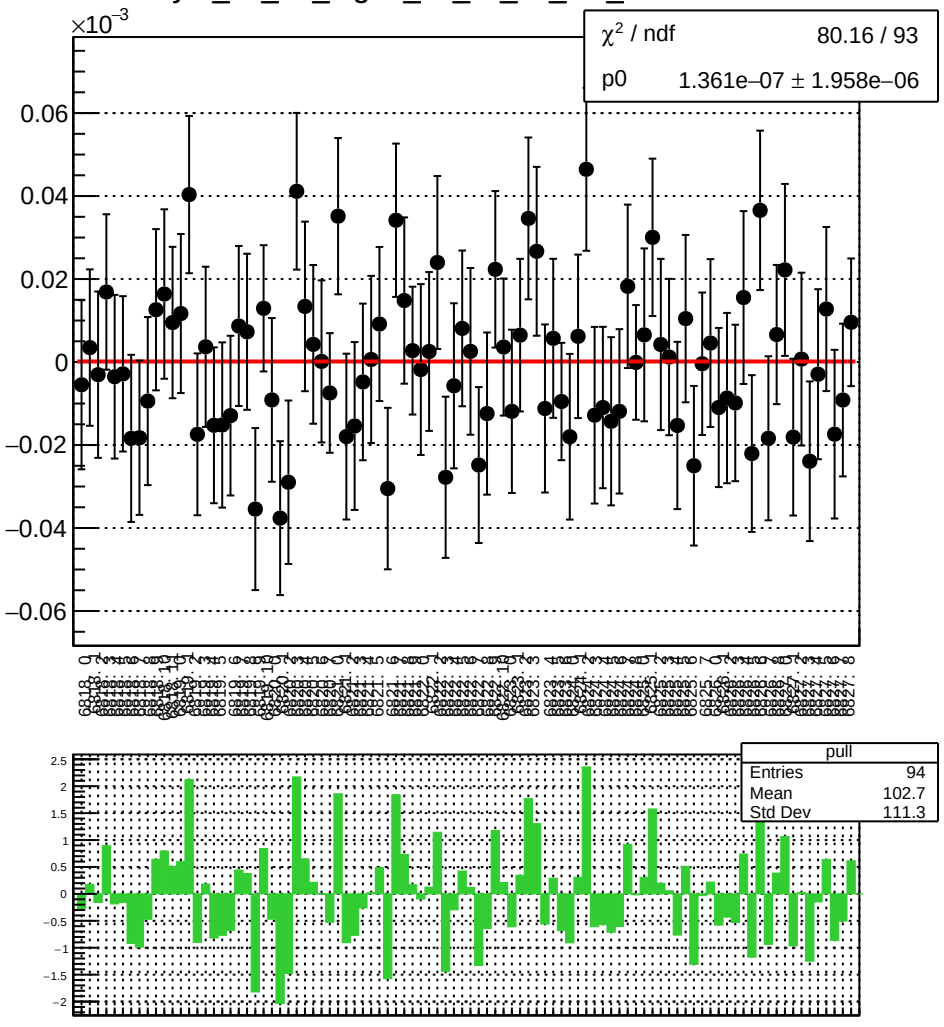

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.13 / 93
p0 −0.01255 ± 0.02441
pull
Entries 94
Mean 29.01
Std Dev 0

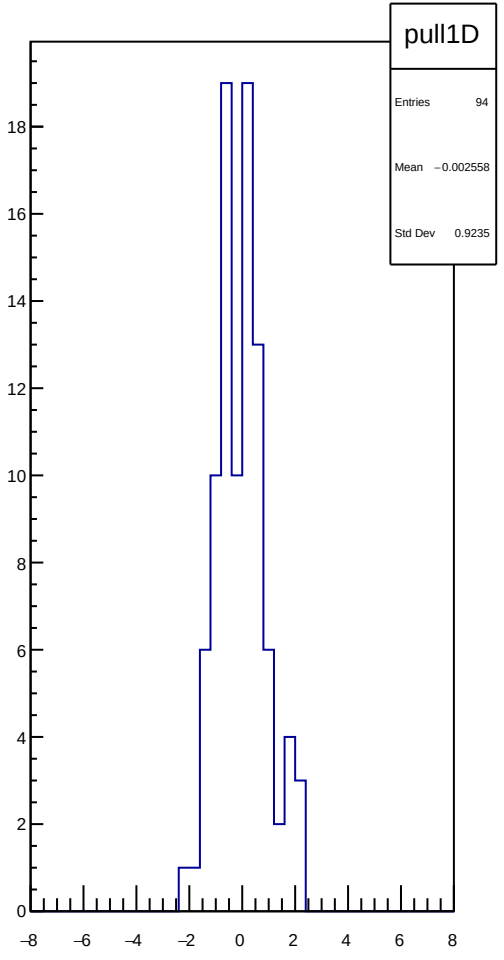

pull1D
Entries 94
Mean 0.02599
Std Dev 0.9457

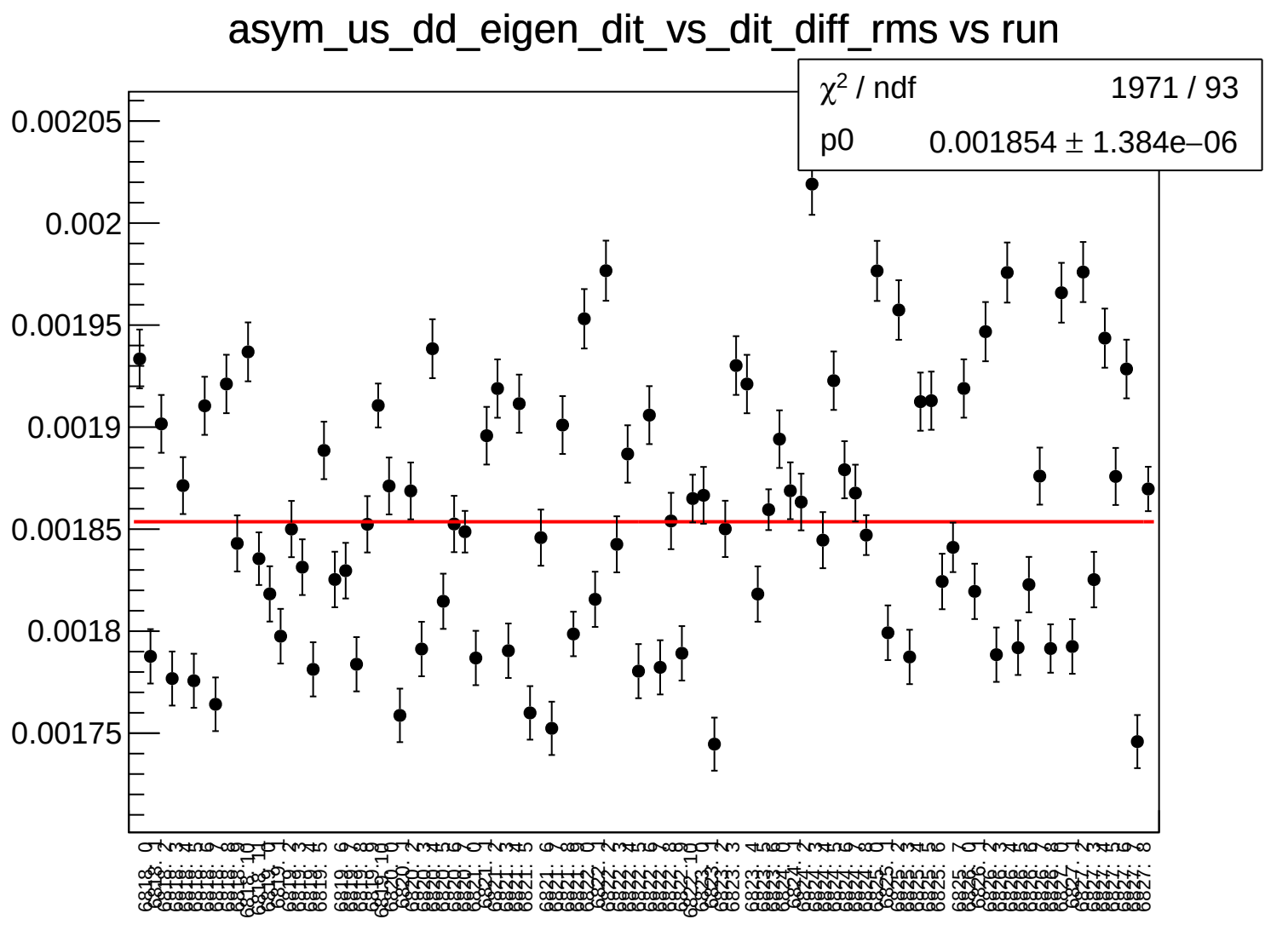

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.603e+05 / 93
p0 22.07 ± 0.01726
45
40
35
30
25
20
15
10

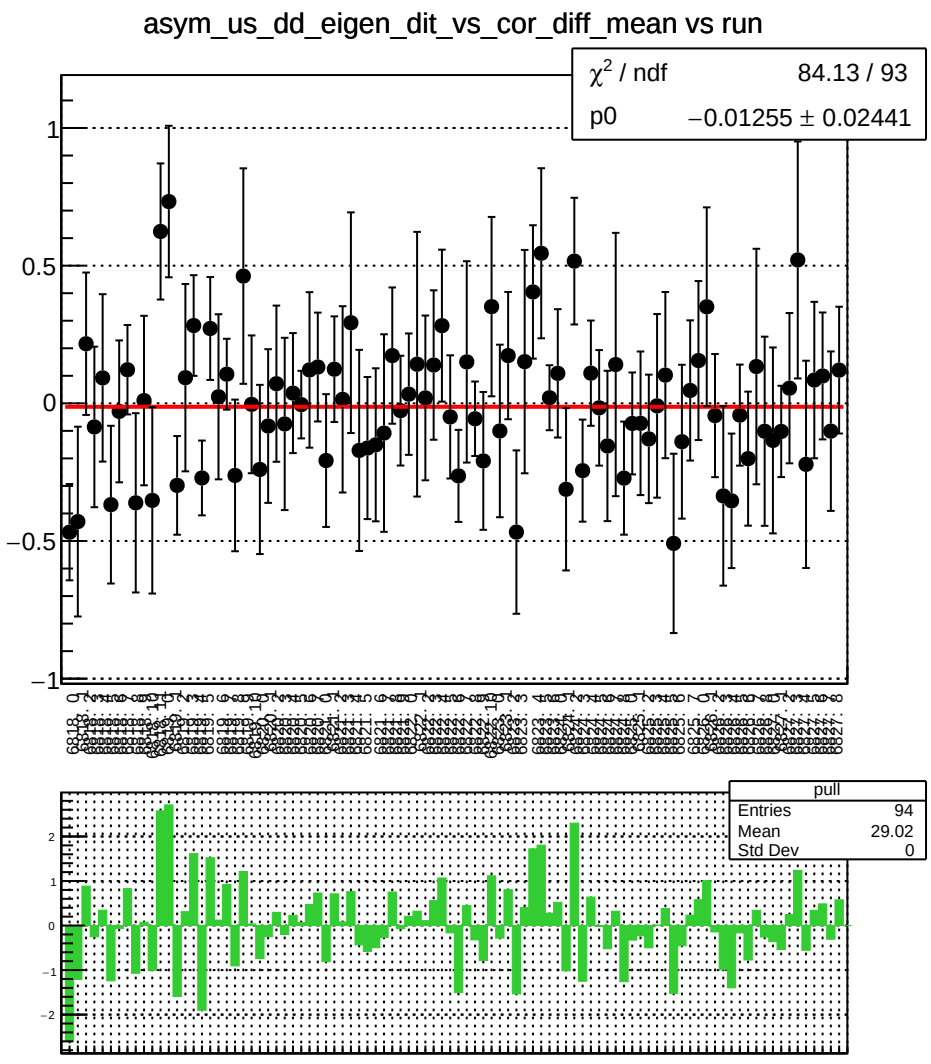

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.75 / 93
p0 −0.005343 ± 0.04086
pull
Entries 94
Mean −28.13
Std Dev 0
pull1D
Entries 94
Mean 0.02569
Std Dev 1.004

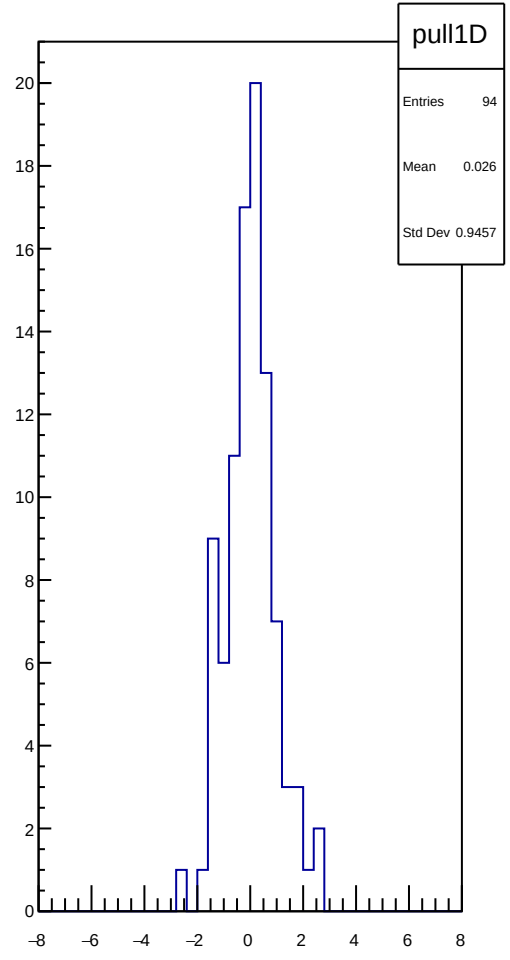

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.285e+04 / 93
p0 38.13 ± 0.02889
60
55
50
45
40
35
30
25
20

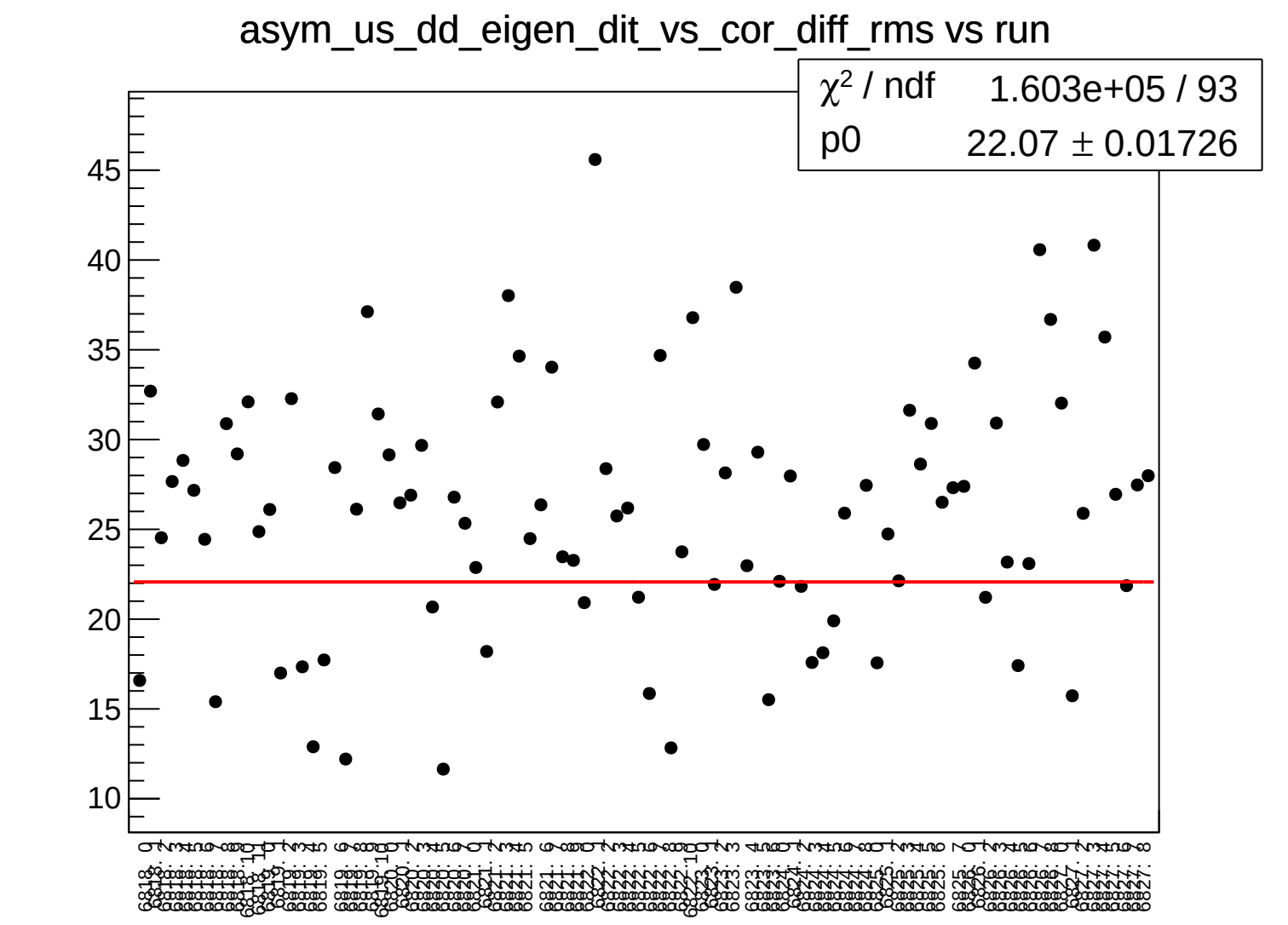

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.16 / 93
p0 1.361e−07 ± 1.958e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean 102.7
Std Dev 111.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

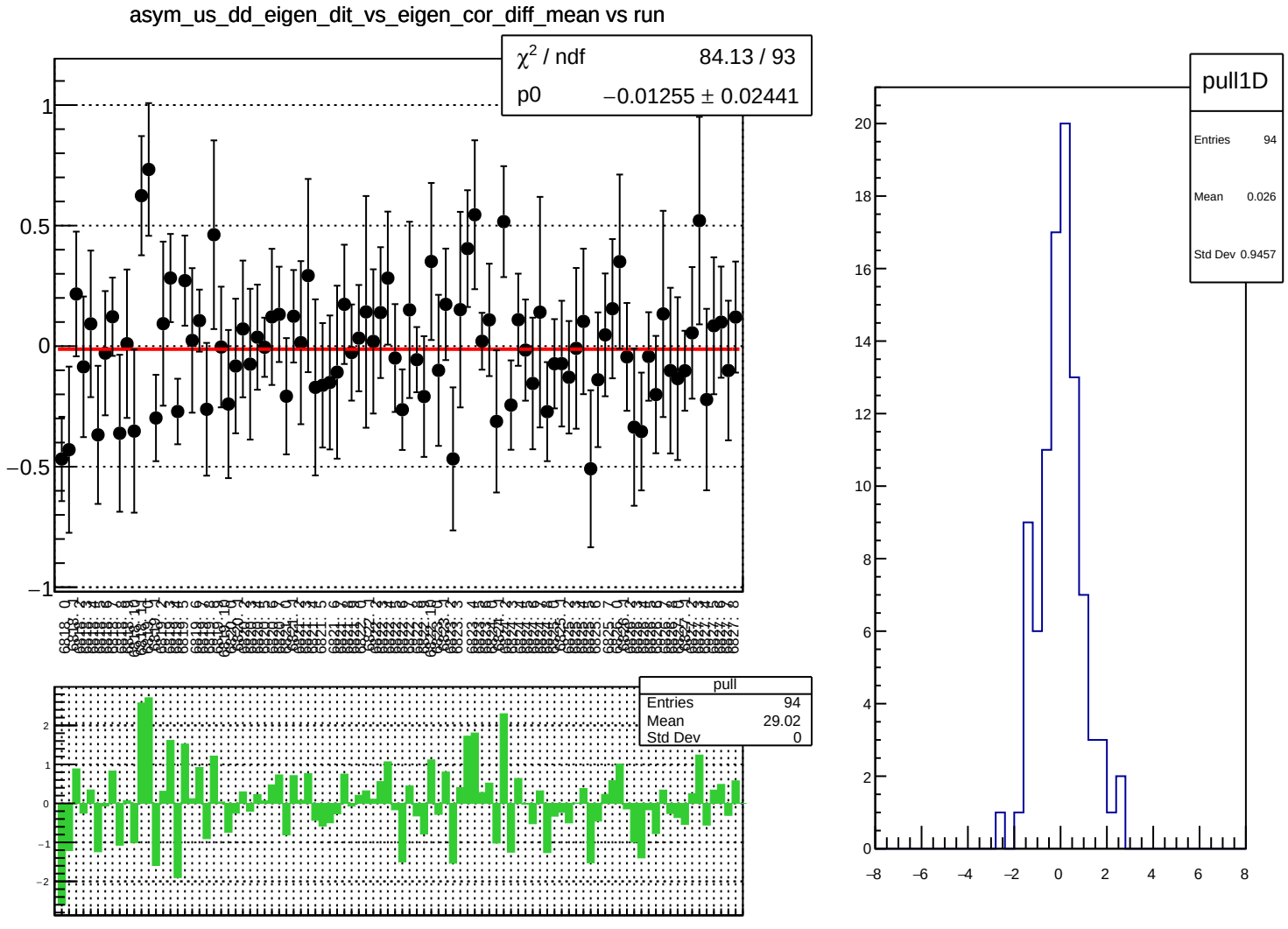

pull1D
Entries 94
Mean −0.002558
Std Dev 0.9235
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

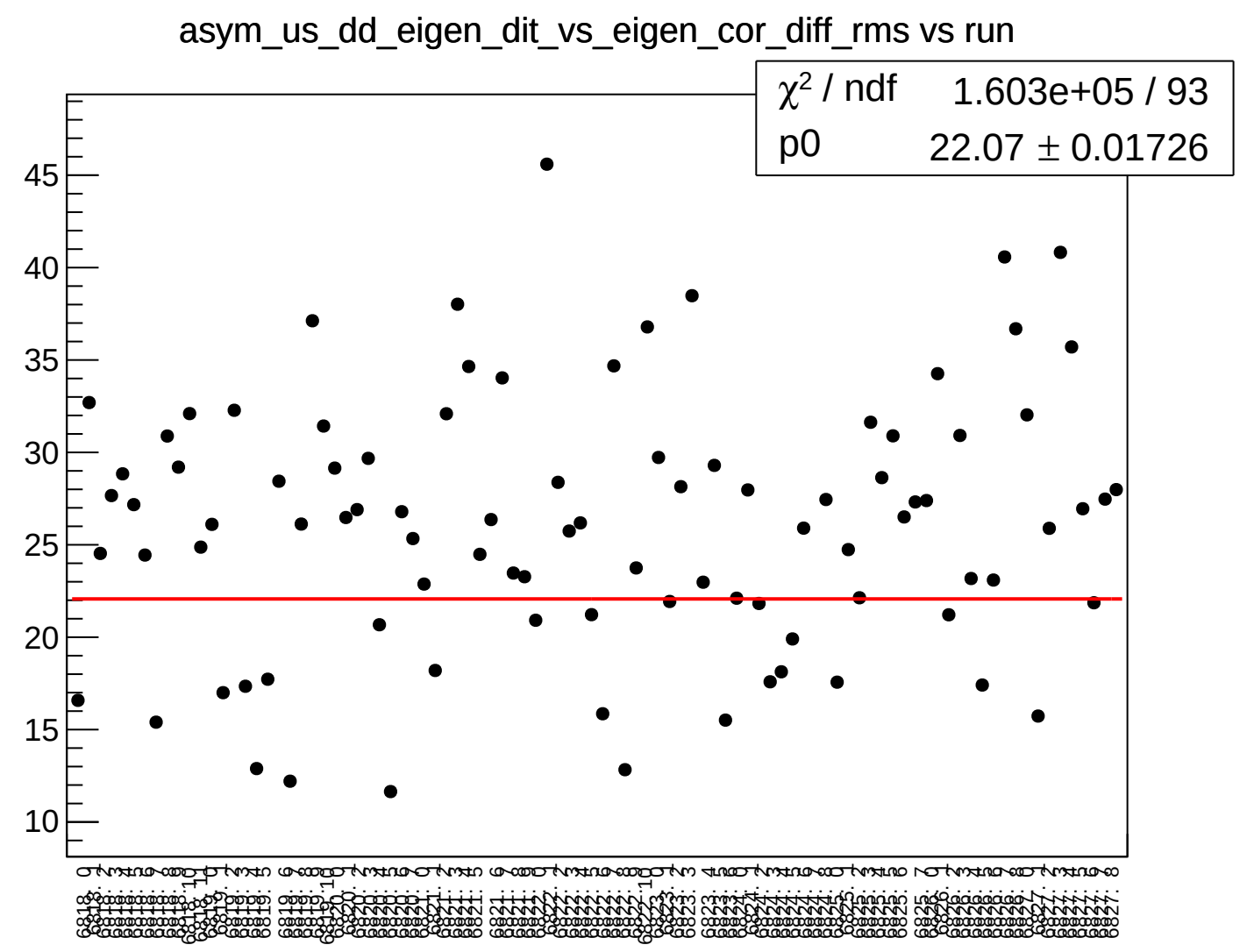

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1971 / 93
p0 0.001854 ± 1.384e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175

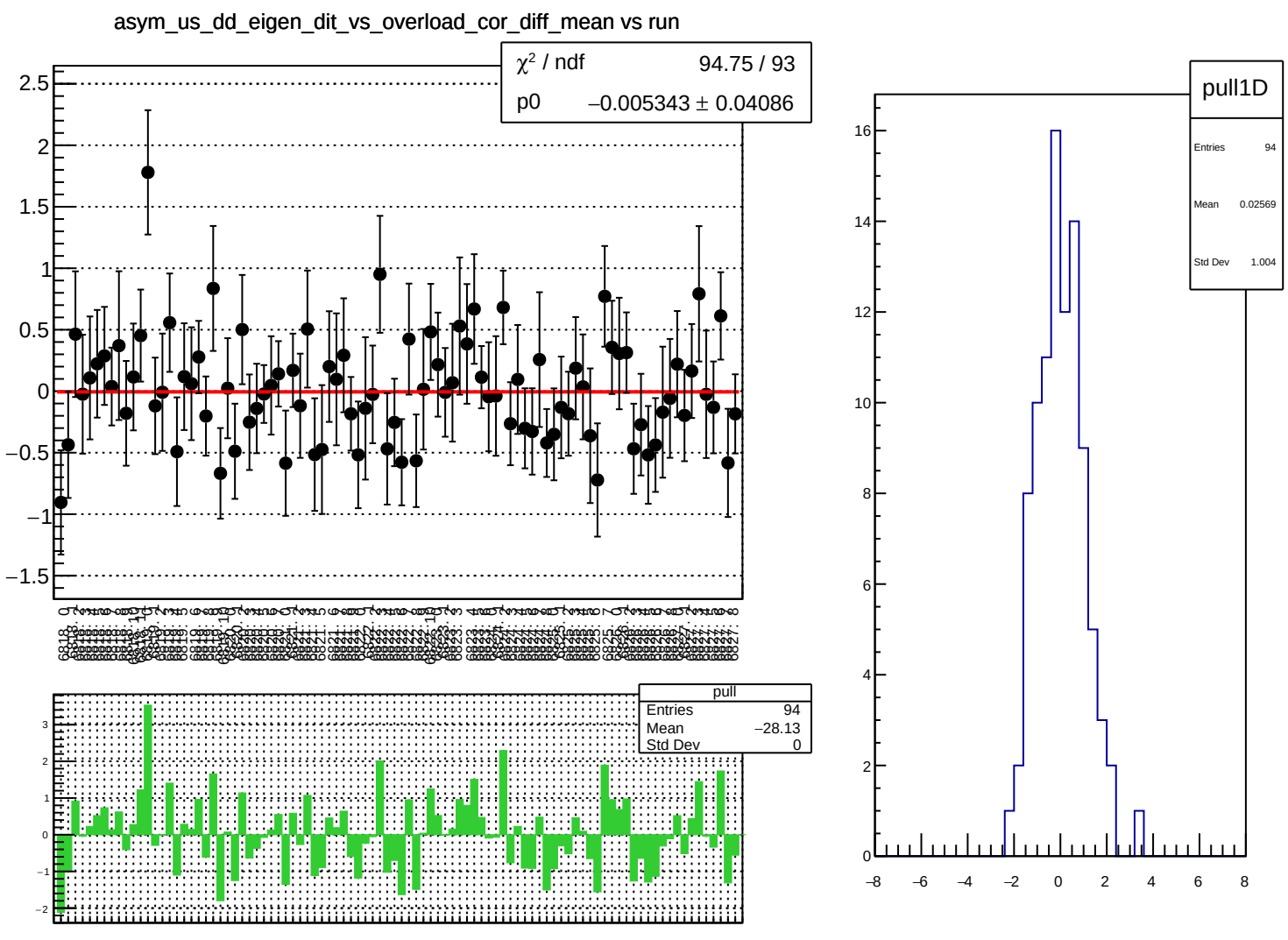

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.13 / 93
p0 −0.01255 ± 0.02441
pull
Entries 94
Mean 29.02
Std Dev 0

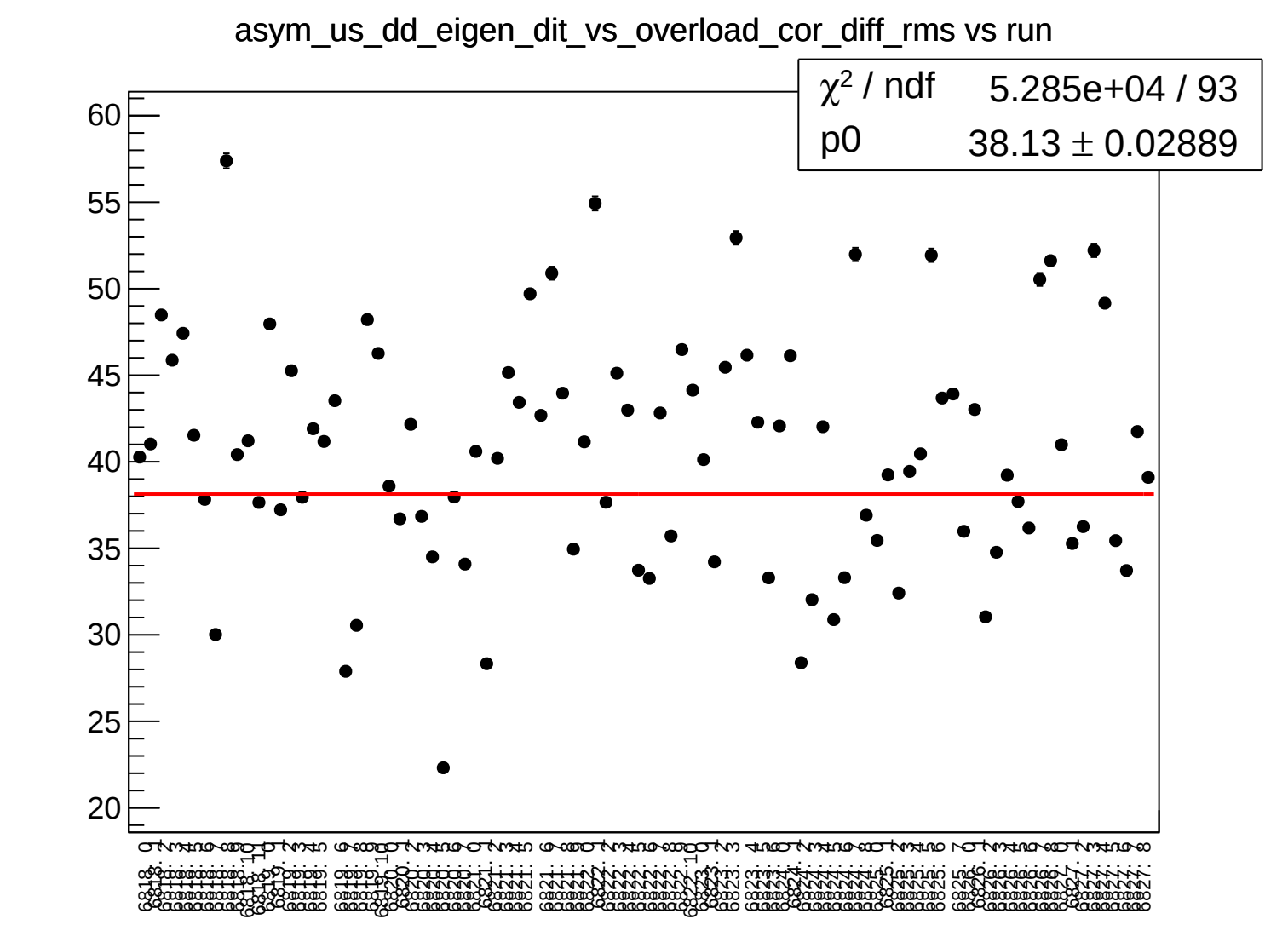

pull1D
Entries 94
Mean 0.026
Std Dev 0.9457

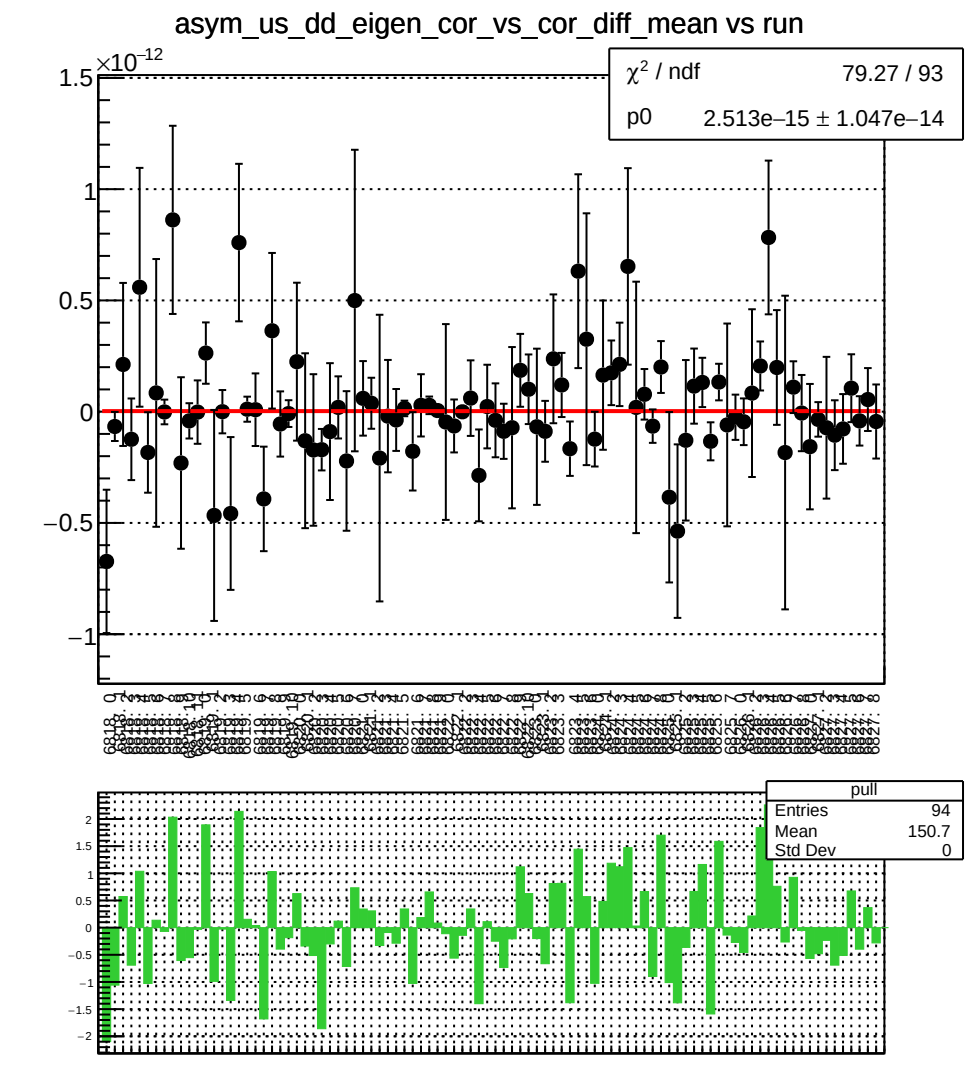

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.603e+05 / 93
p0 22.07 ± 0.01726
45
40
35
30
25
20
15
10

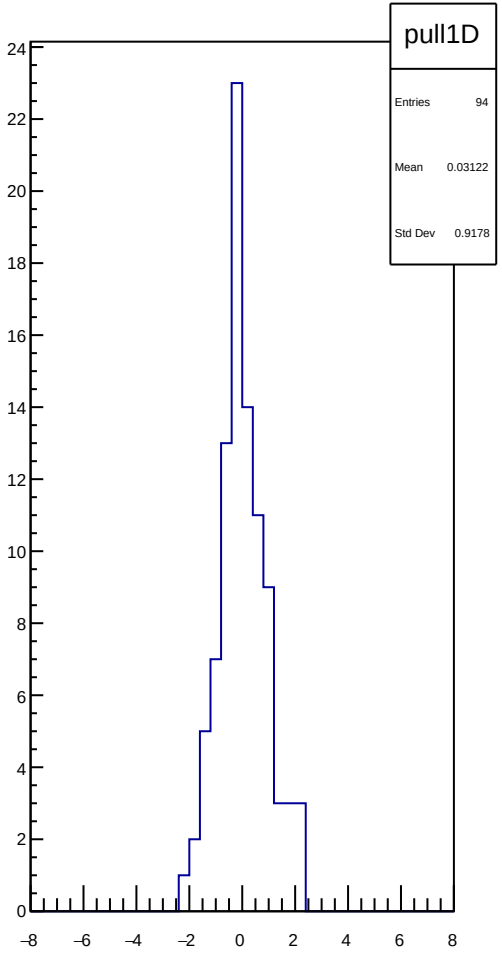

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.13 / 93
p0 −0.01255 ± 0.02441
pull
Entries 94
Mean 29.02
Std Dev 0
pull1D
Entries 94
Mean 0.026
Std Dev 0.9457

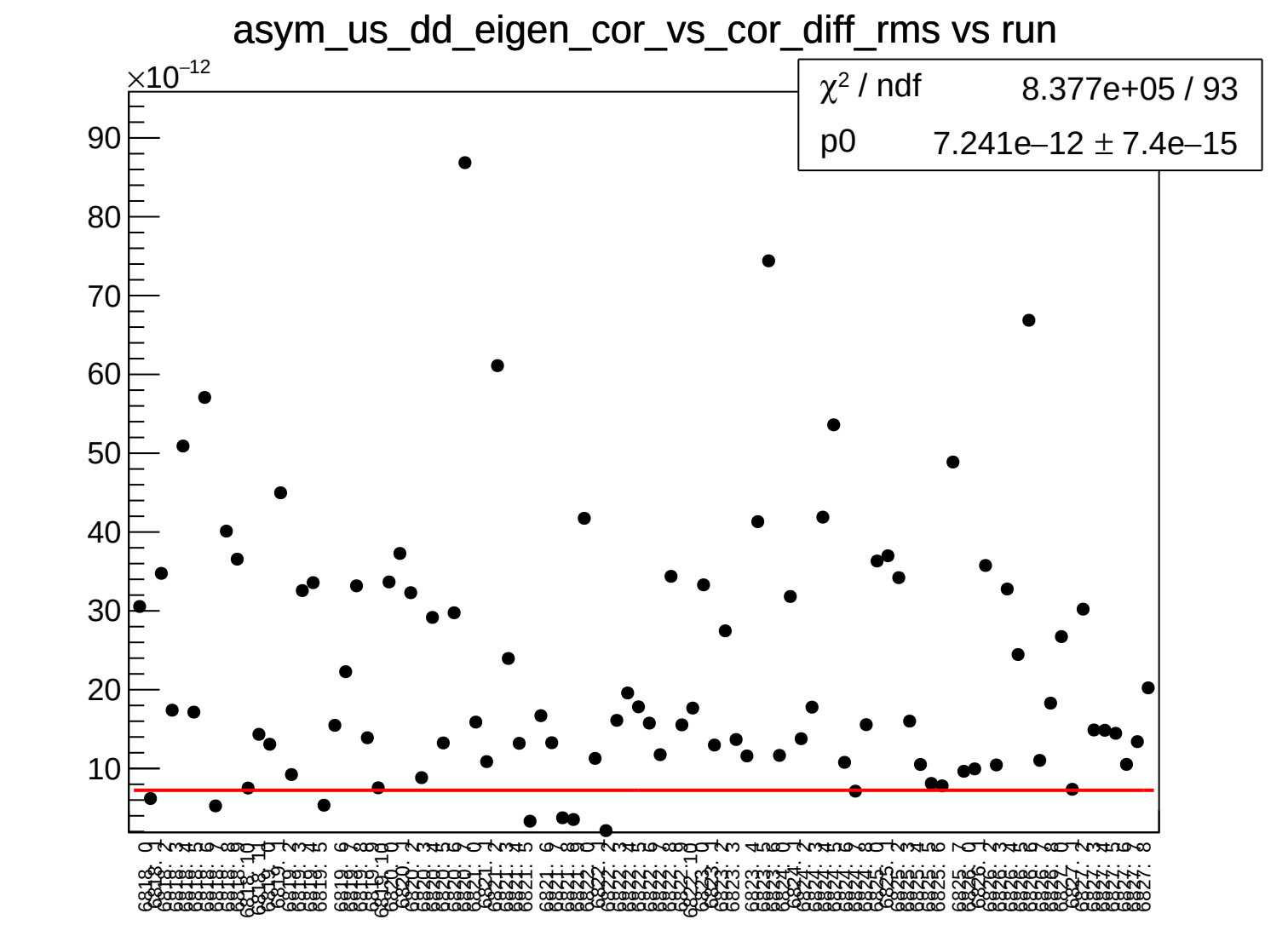

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.603e+05 / 93
p0 22.07 ± 0.01726
45
40
35
30
25
20
15
10

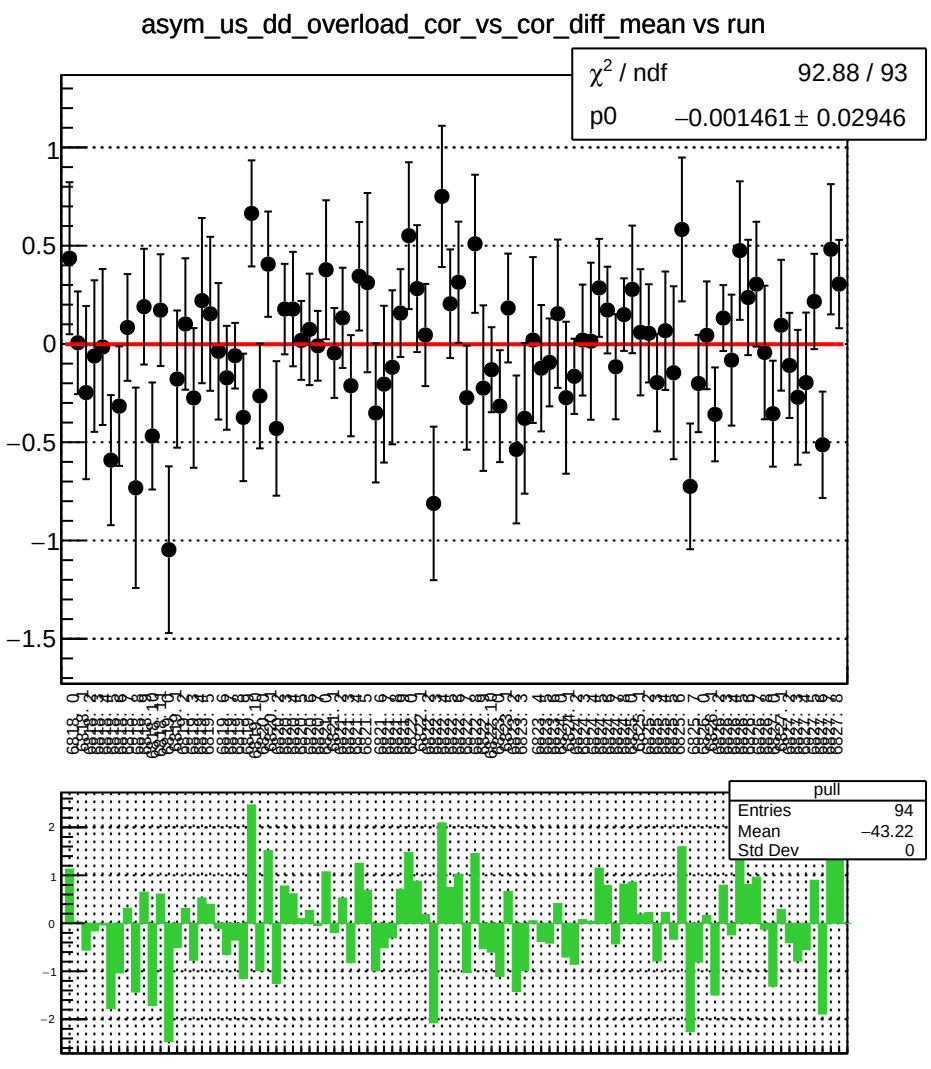

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.75 / 93
p0 −0.005343 ± 0.04086
pull
Entries 94
Mean −28.13
Std Dev 0
pull1D
Entries 94
Mean 0.02569
Std Dev 1.004

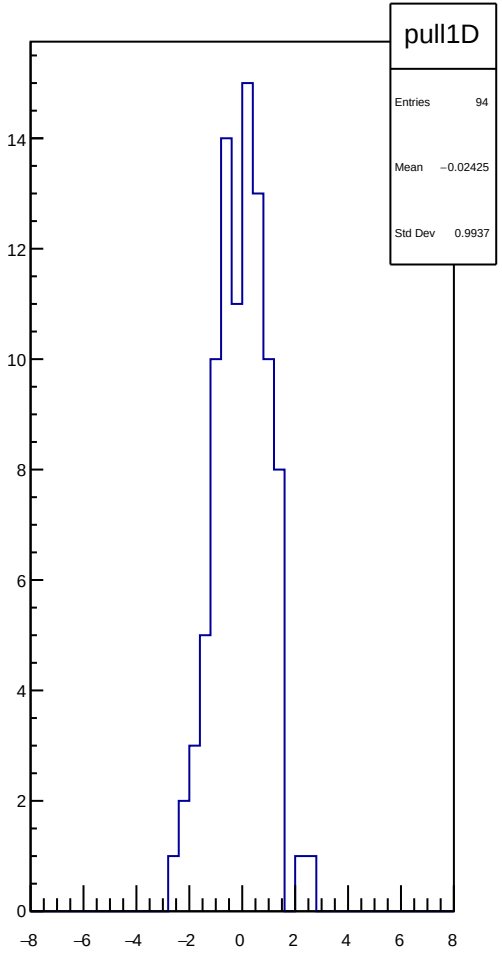

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.285e+04 / 93
p0 38.13 ± 0.02889
60
55
50
45
40
35
30
25
20

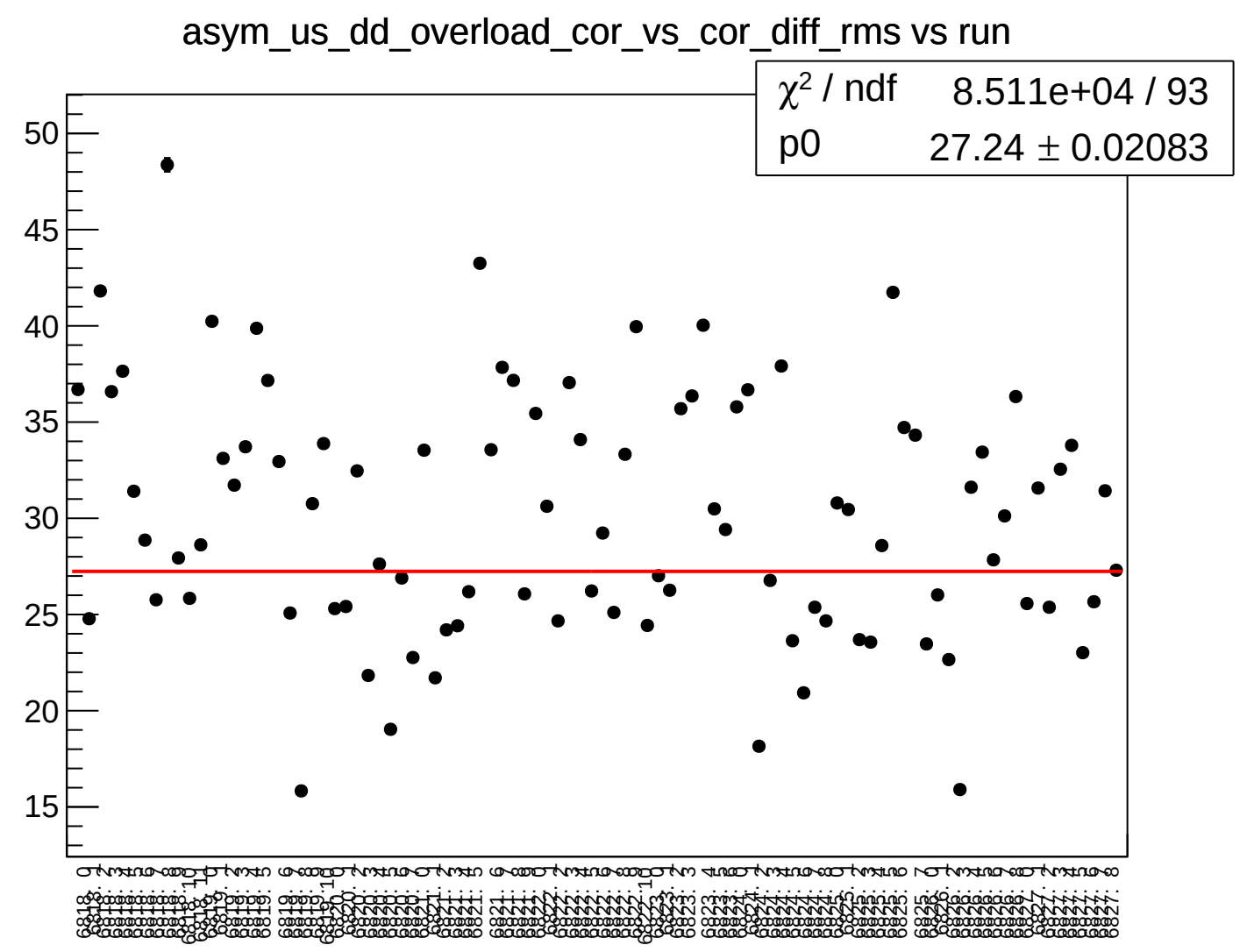

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.27 / 93
p0 2.513e−15 ± 1.047e−14
pull
Entries 94
Mean 150.7
Std Dev 0

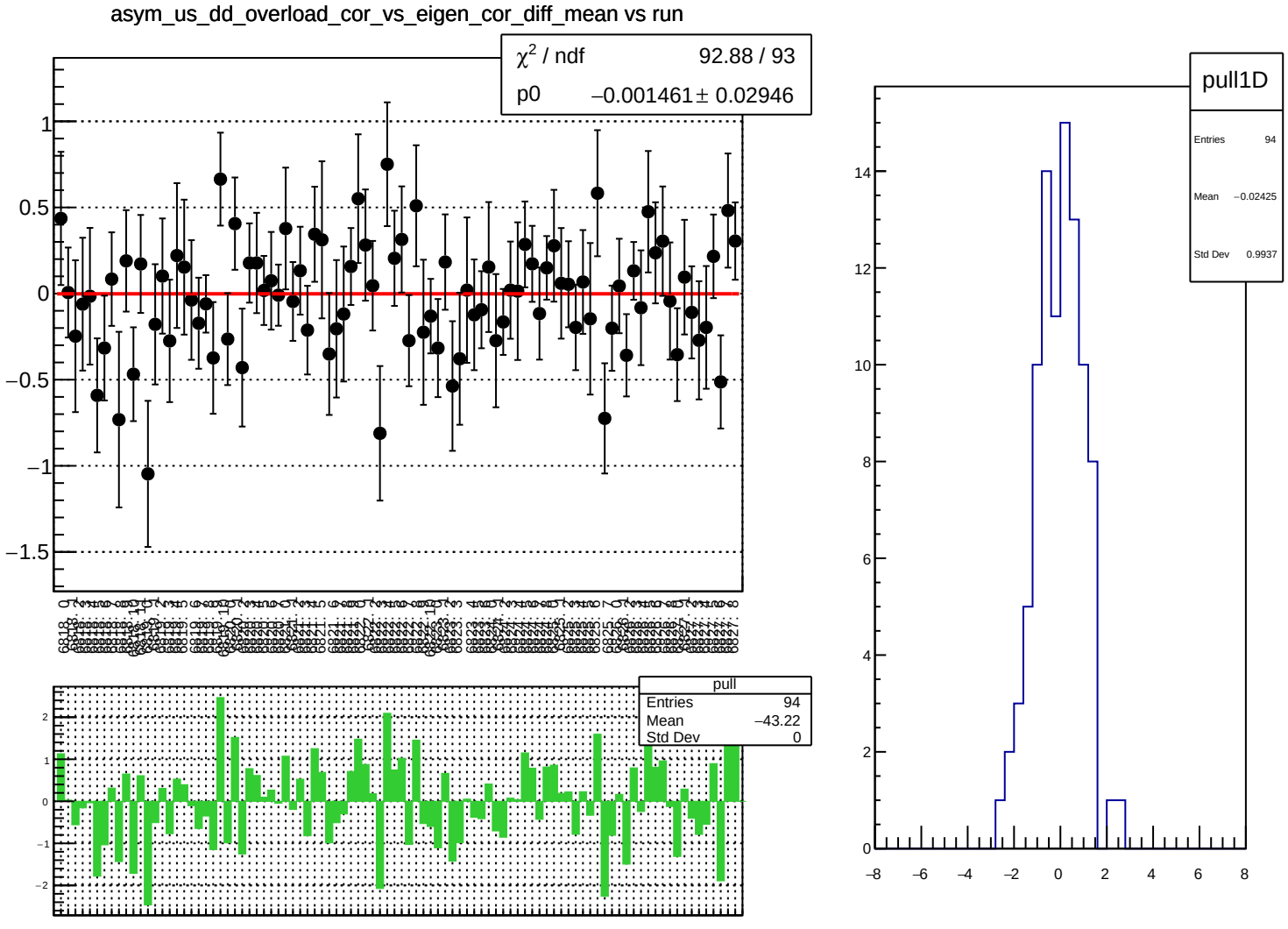

pull1D
Entries 94
Mean 0.03122
Std Dev 0.9178

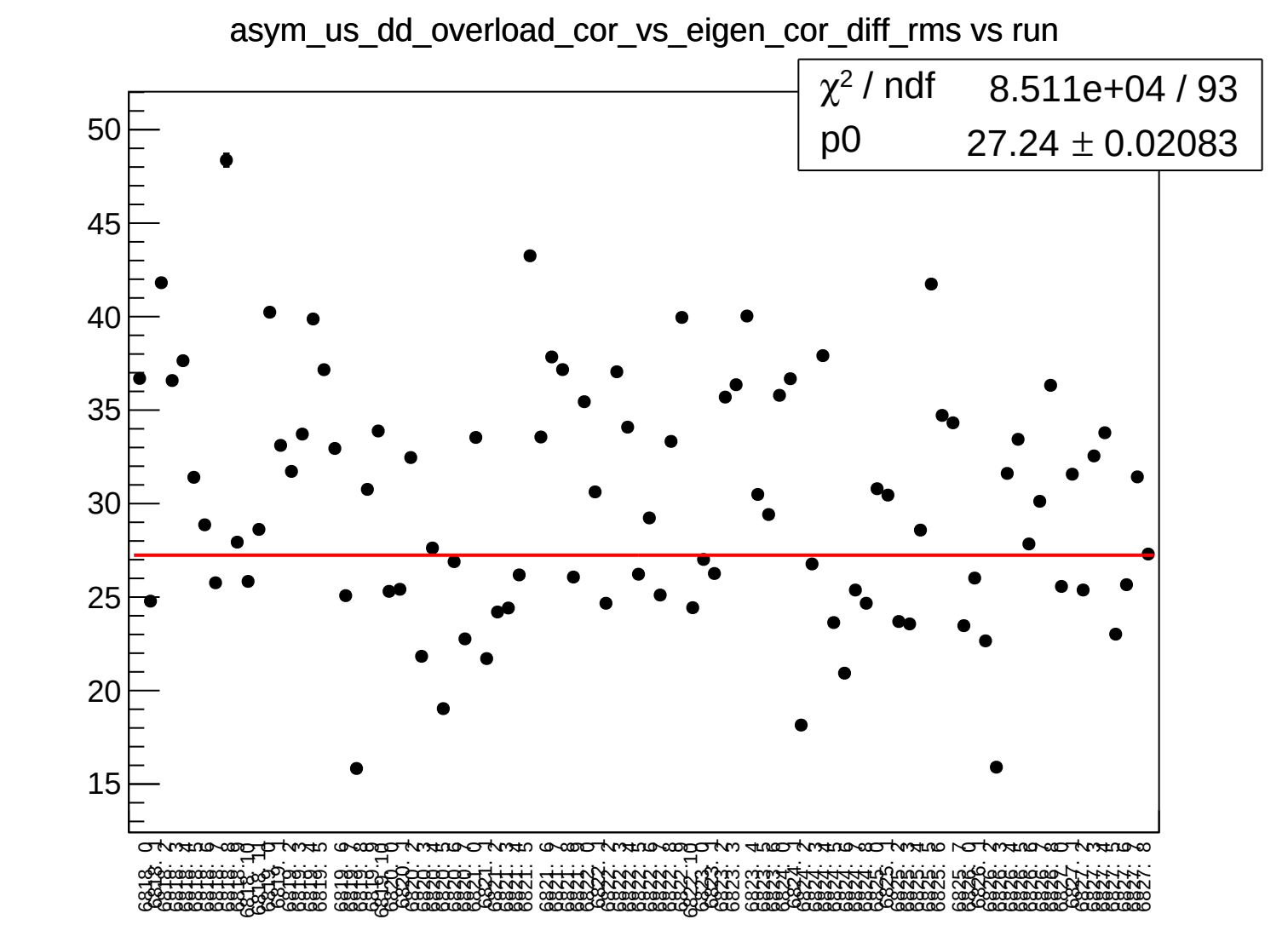

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.377e+05 / 93
p0 7.241e−12 ± 7.4e−15
90
80
70
60
50
40
30
20
10

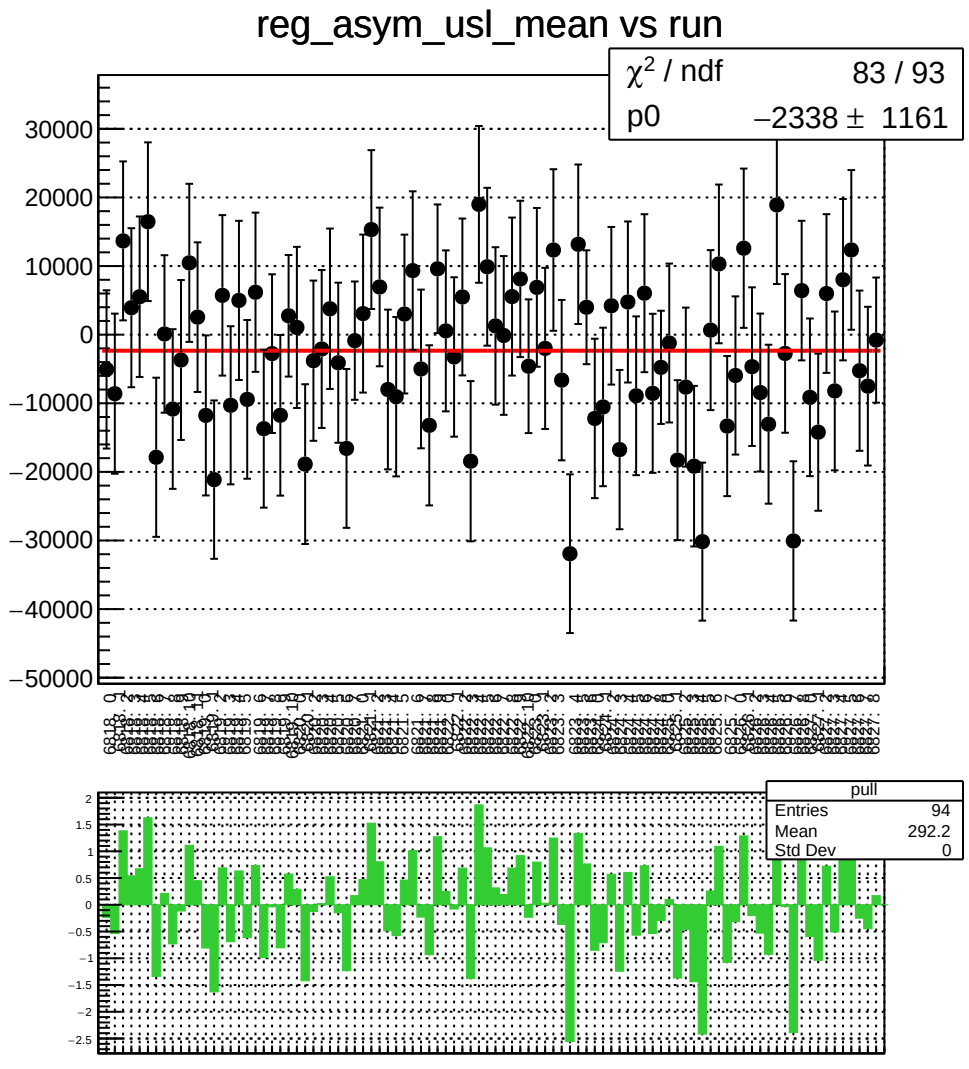

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.88 / 93
p0 −0.001461 ± 0.02946
pull
Entries 94
Mean −43.22
Std Dev 0

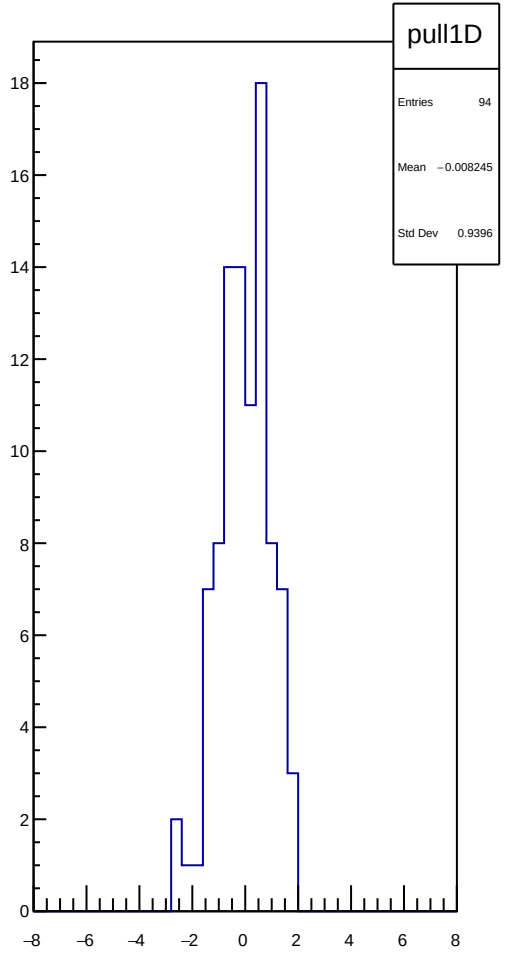

pull1D
Entries 94
Mean −0.02425
Std Dev 0.9937

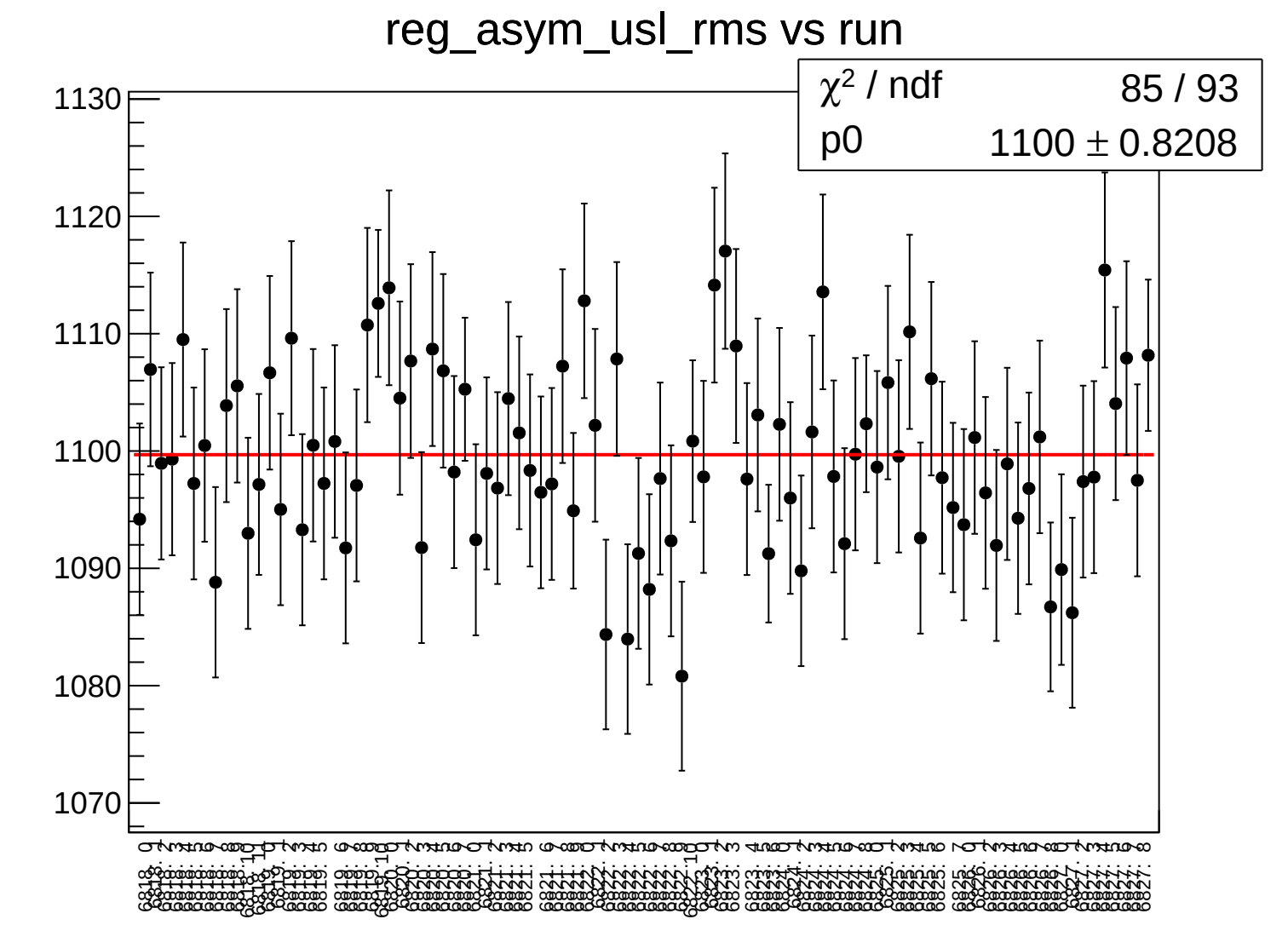

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 27.24 ± 0.02083
50
45
40
35
30
25
20
15

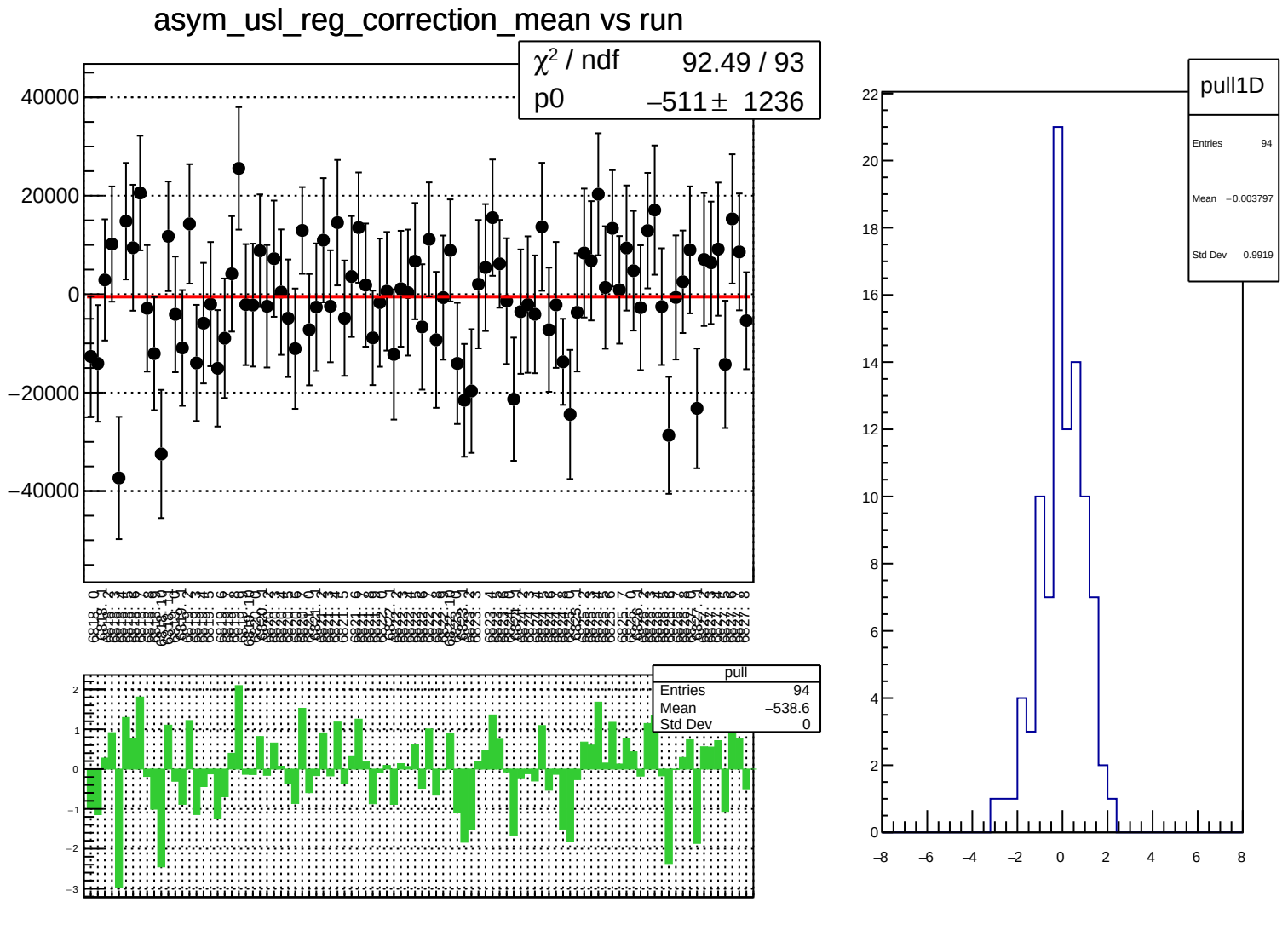

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.88 / 93
p0 −0.001461 ± 0.02946
pull
Entries 94
Mean −43.22
Std Dev 0
pull1D
Entries 94
Mean −0.02425
Std Dev 0.9937

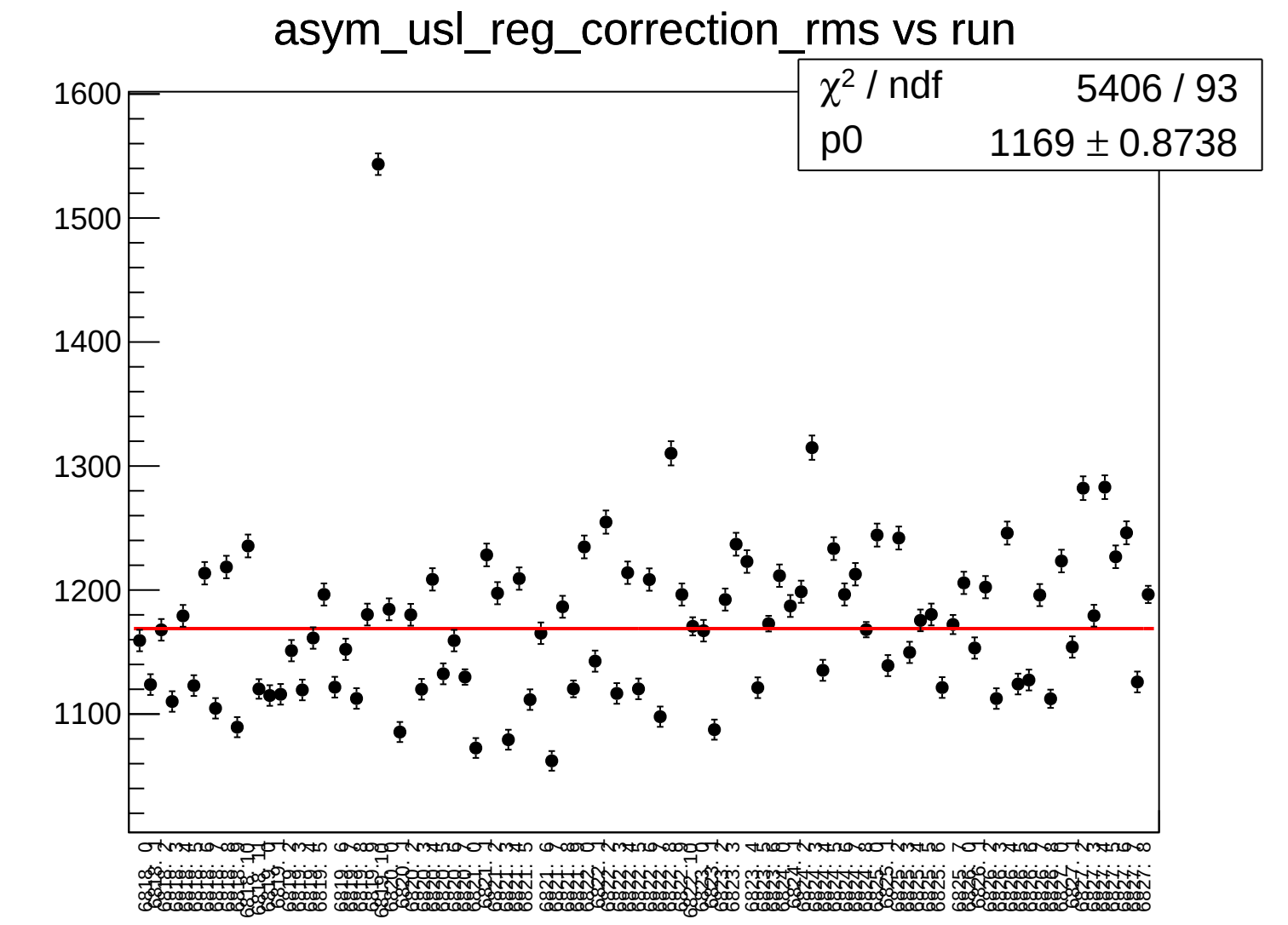

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.511e+04 / 93
p0 27.24 ± 0.02083
50
45
40
35
30
25
20
15

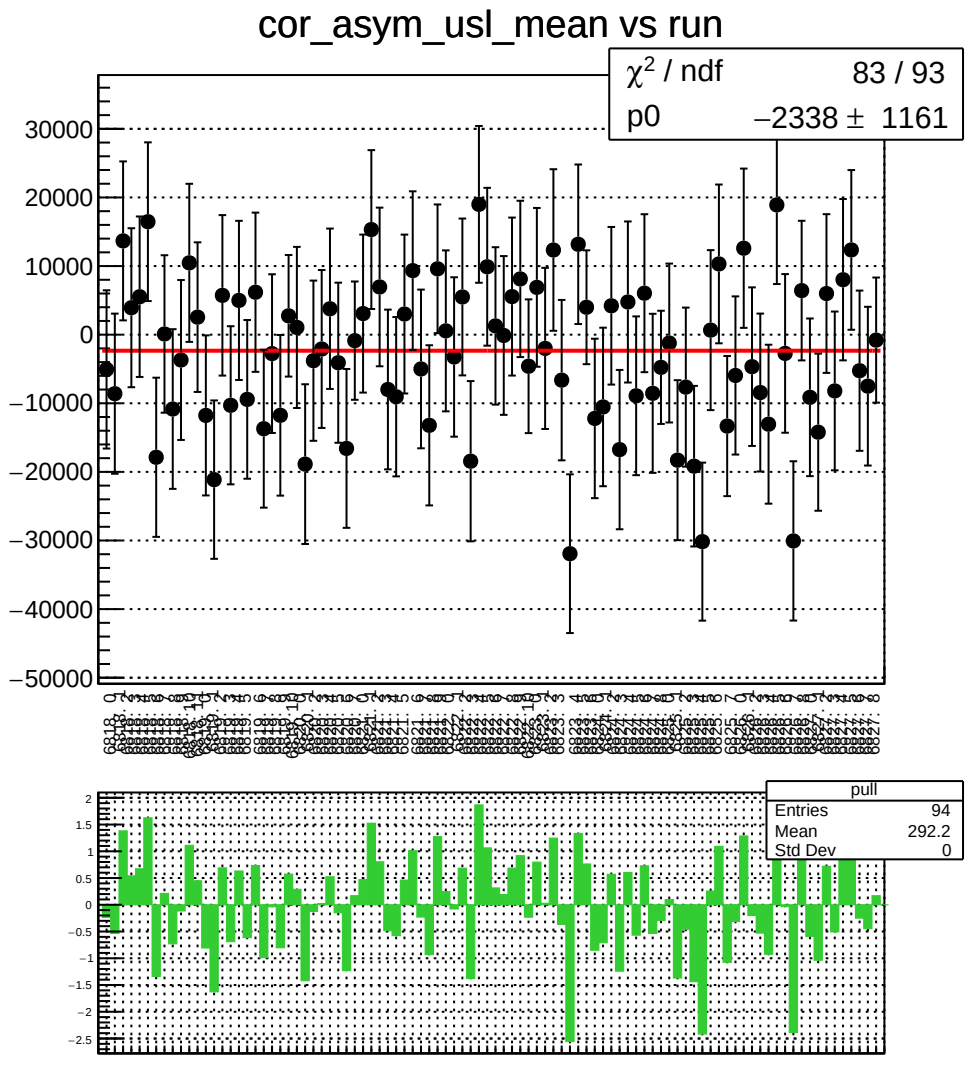

reg_asym_usl_mean vs run
χ² / ndf 83 / 93
p0 −2338 ± 1161
pull
Entries 94
Mean 292.2
Std Dev 0

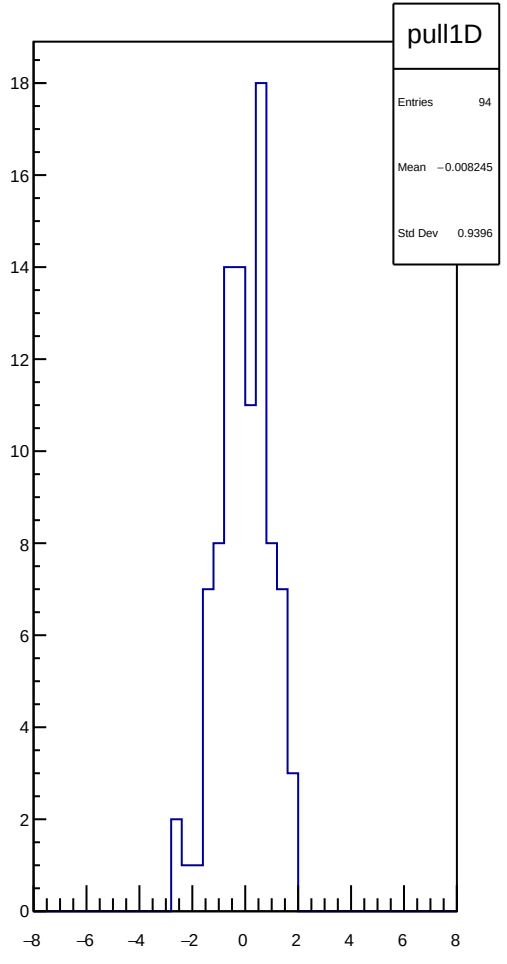

pull1D
Entries 94
Mean −0.008245
Std Dev 0.9396

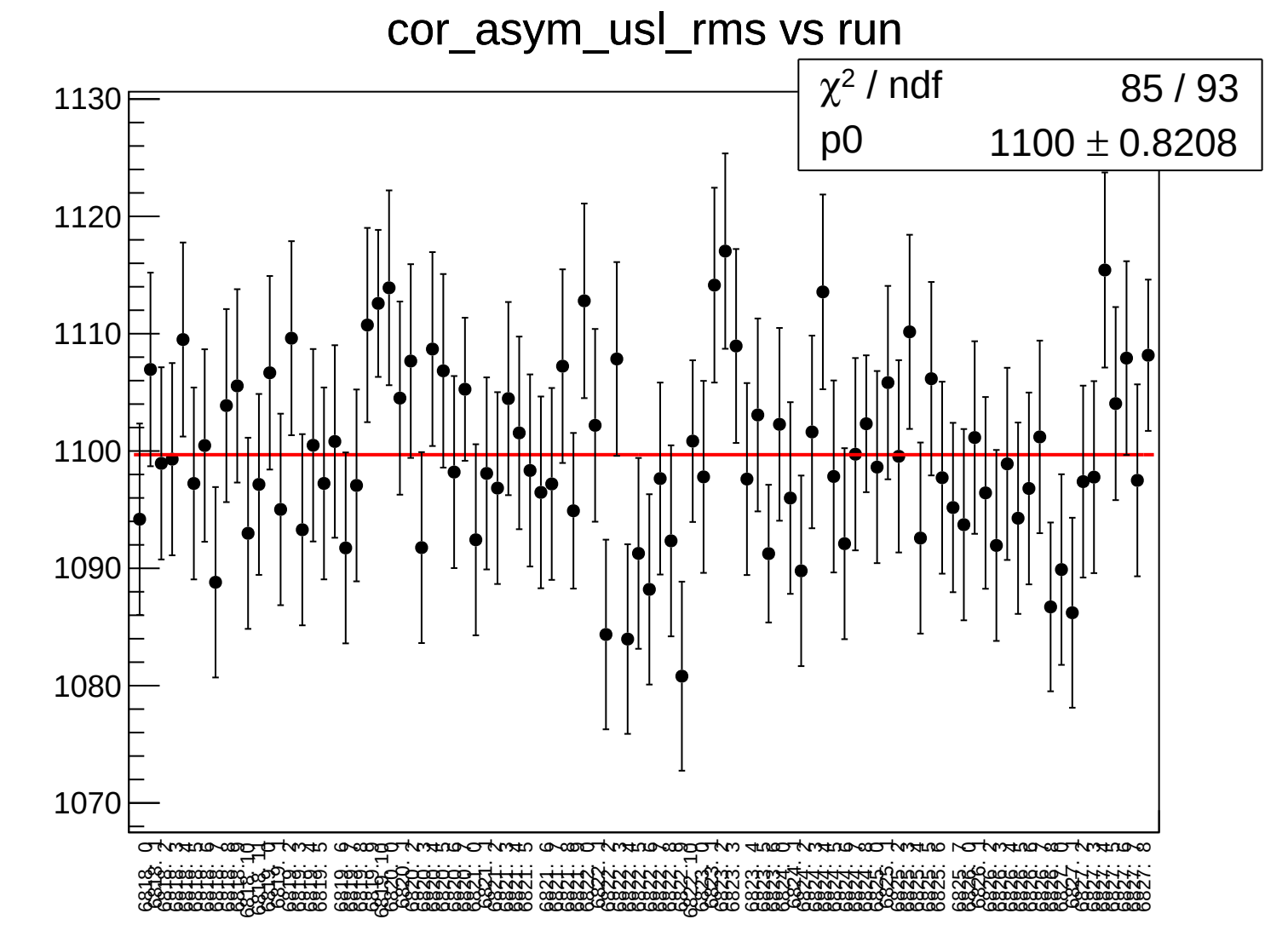

reg_asym_usl_rms vs run
χ² / ndf 85 / 93
p0 1100 ± 0.8208
1130
1120
1110
1100
1090
1080
1070

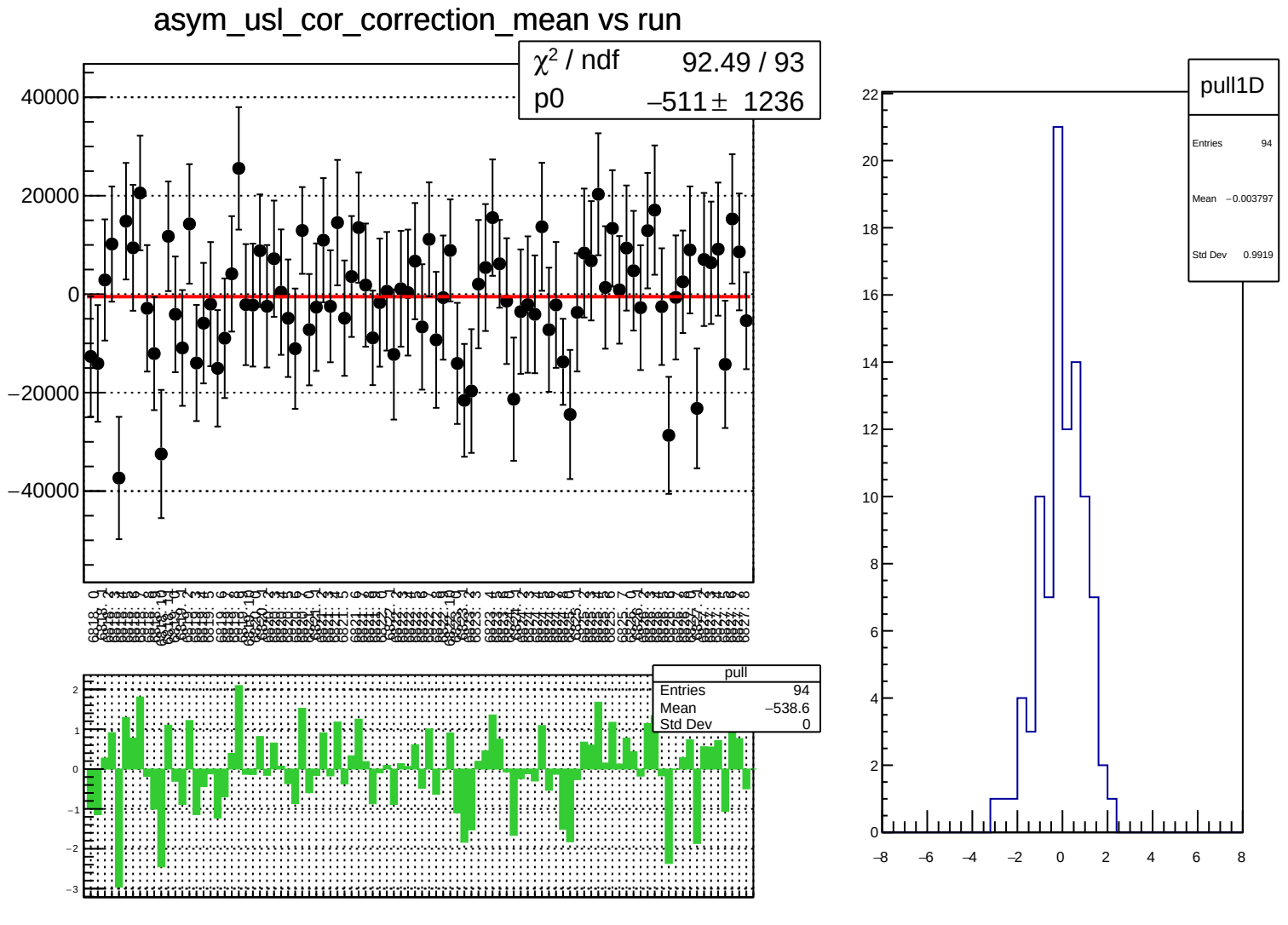

asym_usl_reg_correction_mean vs run
χ² / ndf 92.49 / 93
p0 −511 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −538.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003797
Std Dev 0.9919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

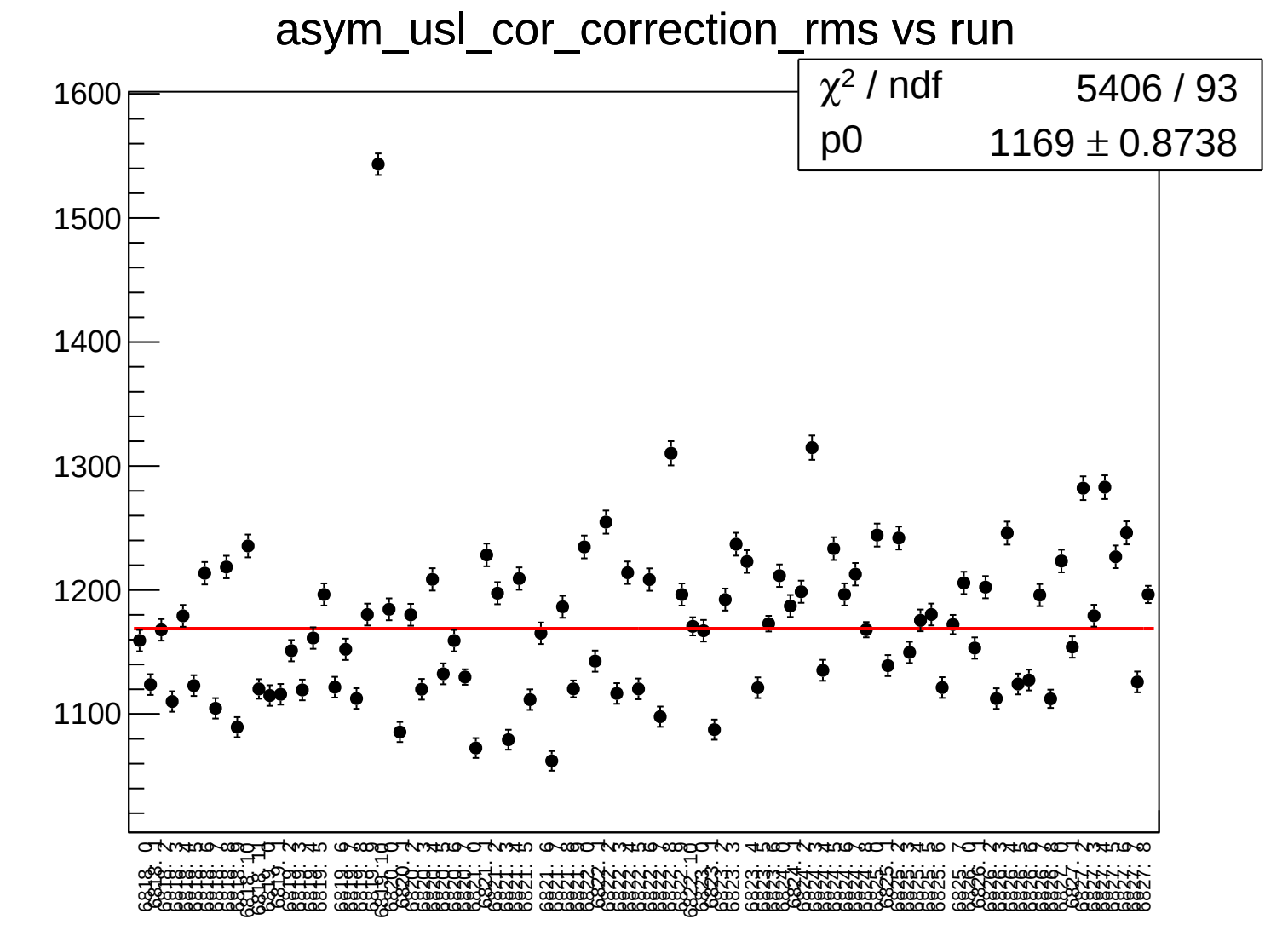

asym_usl_reg_correction_rms vs run
χ² / ndf 5406 / 93
p0 1169 ± 0.8738
1600
1500
1400
1300
1200
1100

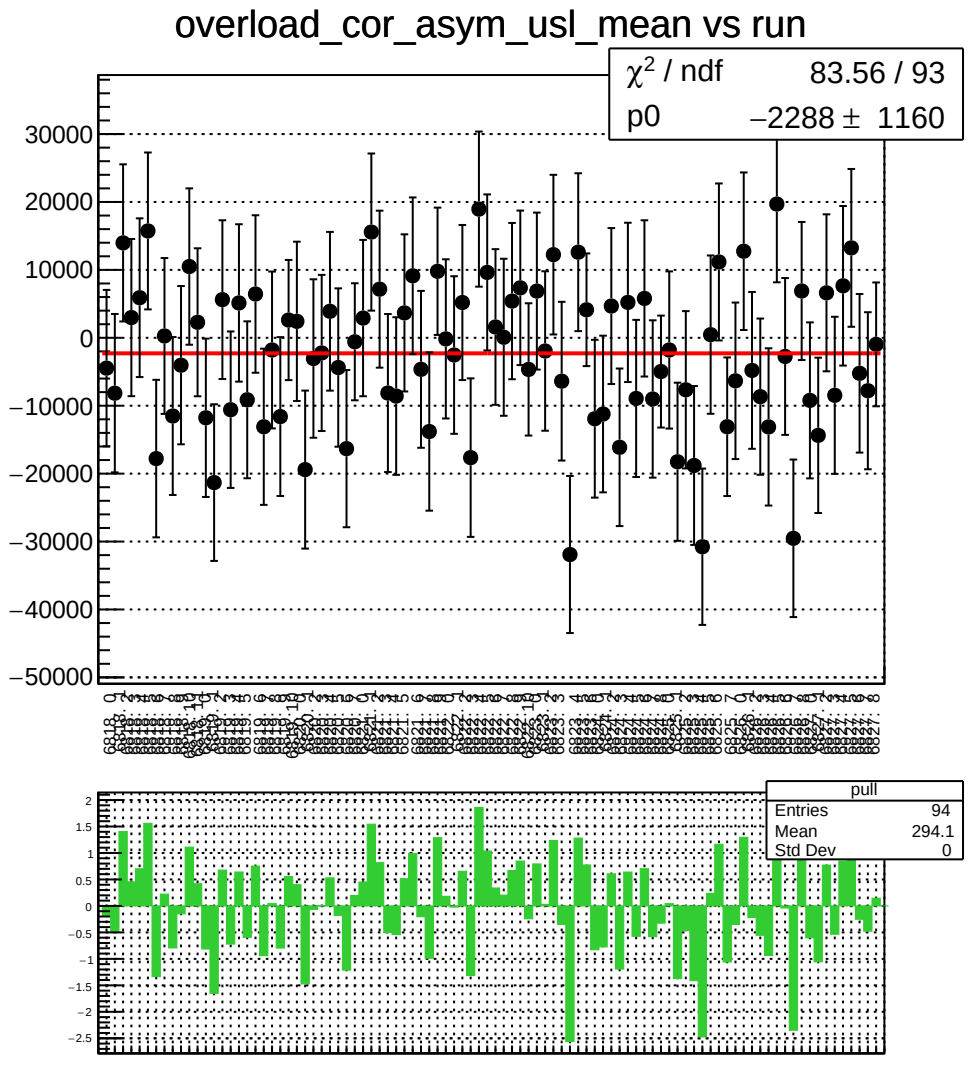

cor_asym_usl_mean vs run
χ² / ndf 83 / 93
p0 −2338 ± 1161
pull
Entries 94
Mean 292.2
Std Dev 0

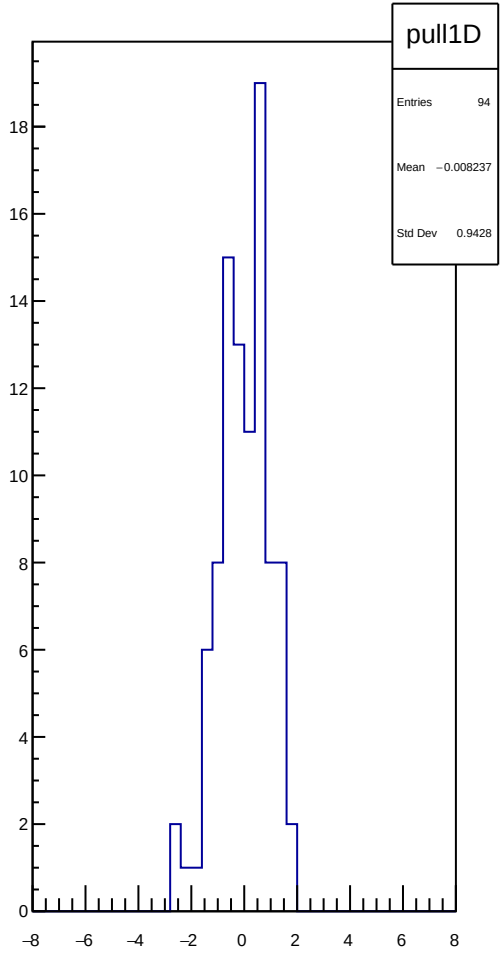

pull1D
Entries 94
Mean −0.008245
Std Dev 0.9396

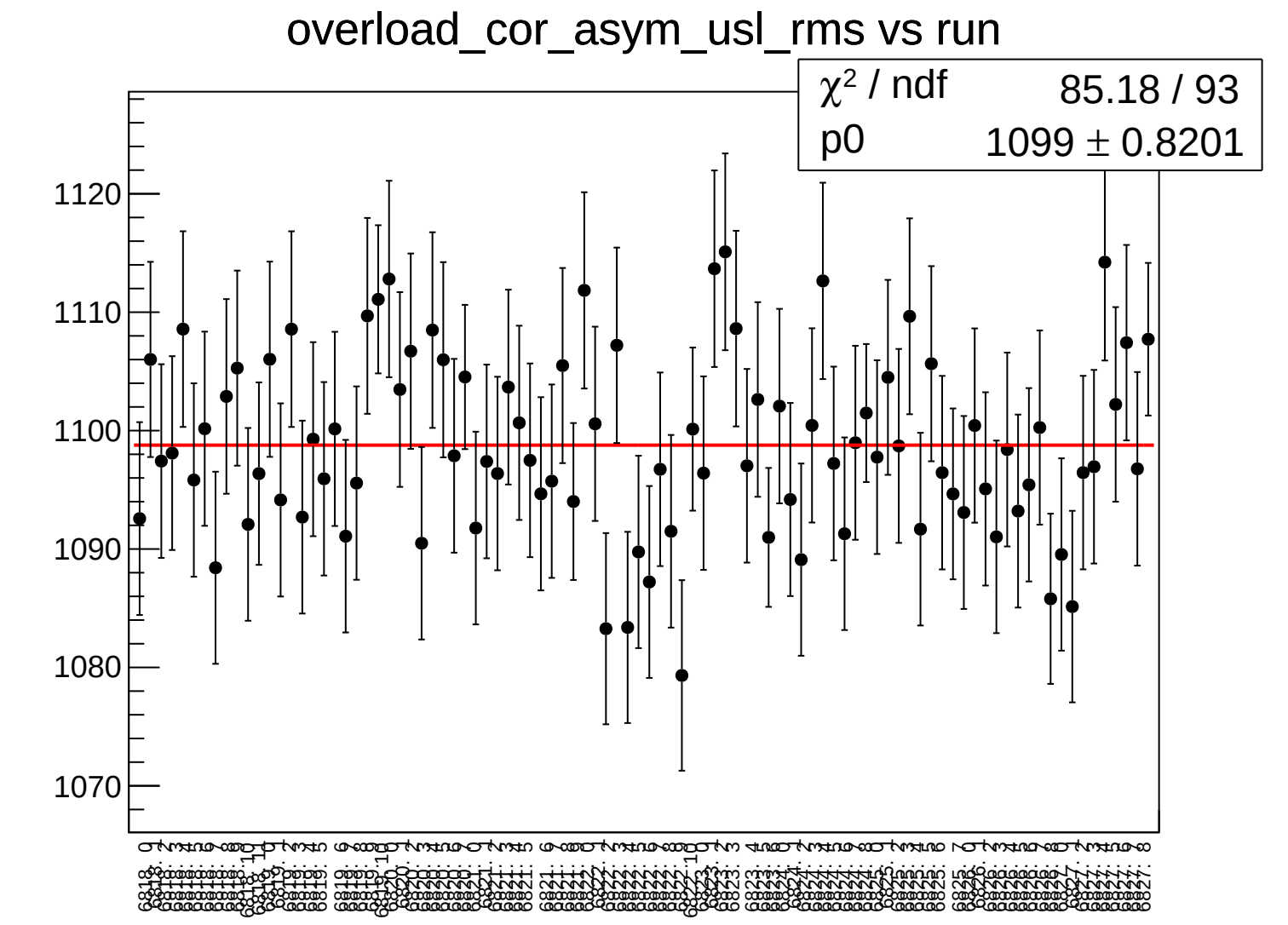

cor_asym_usl_rms vs run
χ² / ndf 85 / 93
p0 1100 ± 0.8208
1130
1120
1110
1100
1090
1080
1070

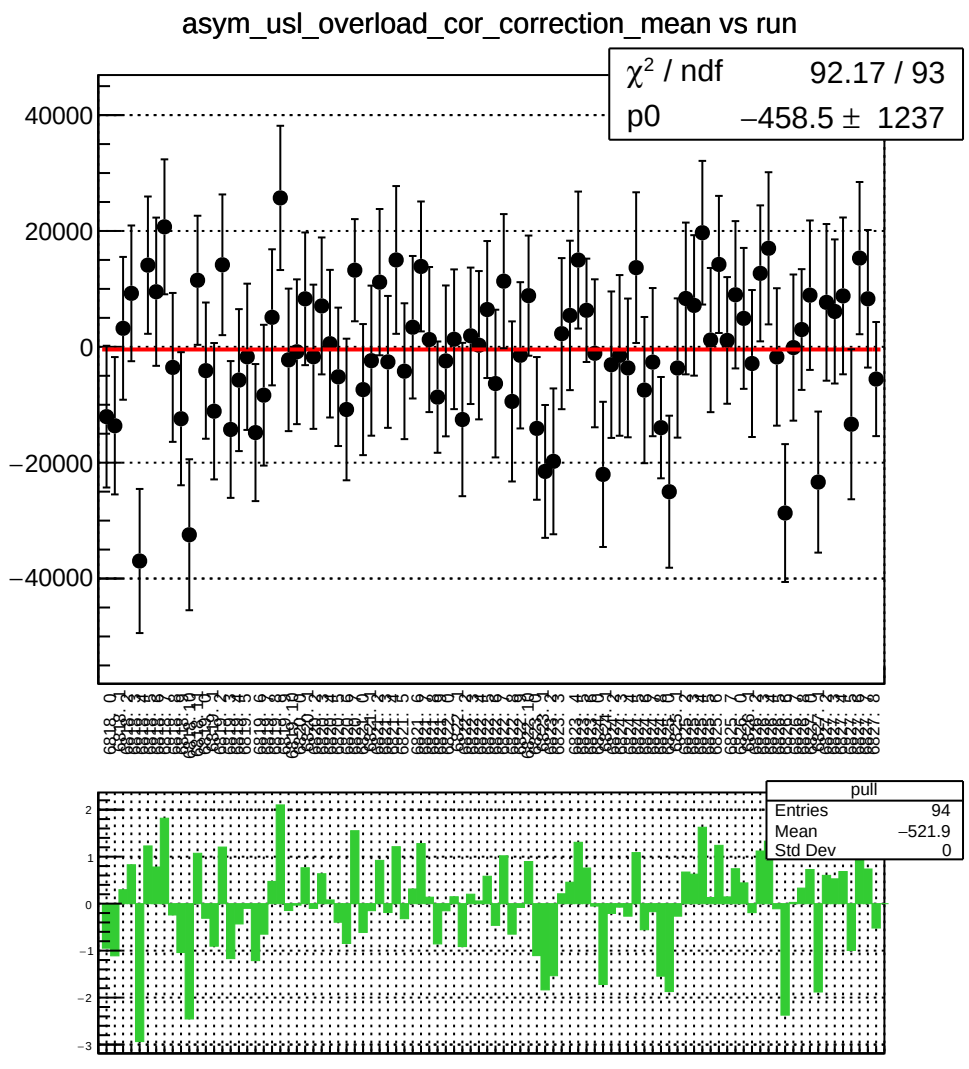

asym_usl_cor_correction_mean vs run
χ² / ndf 92.49 / 93
p0 −511 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −538.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003797
Std Dev 0.9919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

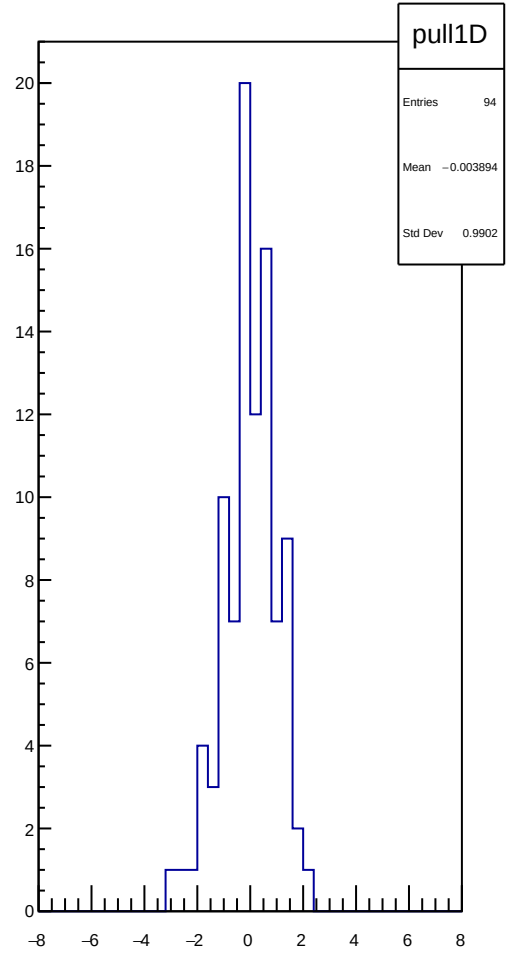

asym_usl_cor_correction_rms vs run
χ² / ndf 5406 / 93
p0 1169 ± 0.8738
1600
1500
1400
1300
1200
1100

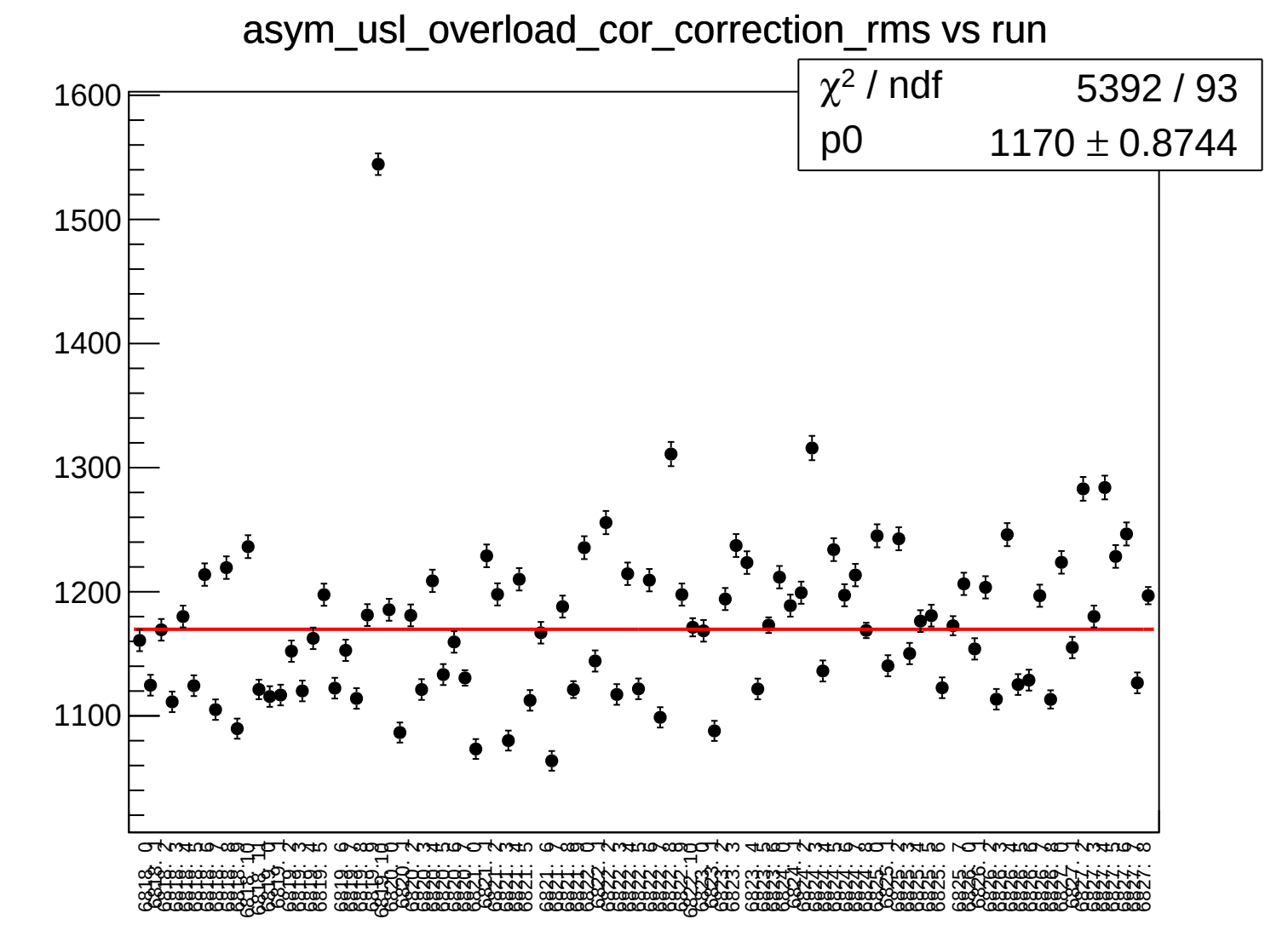

overload_cor_asym_usl_mean vs run
χ² / ndf 83.56 / 93
p0 −2288 ± 1160
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean 294.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

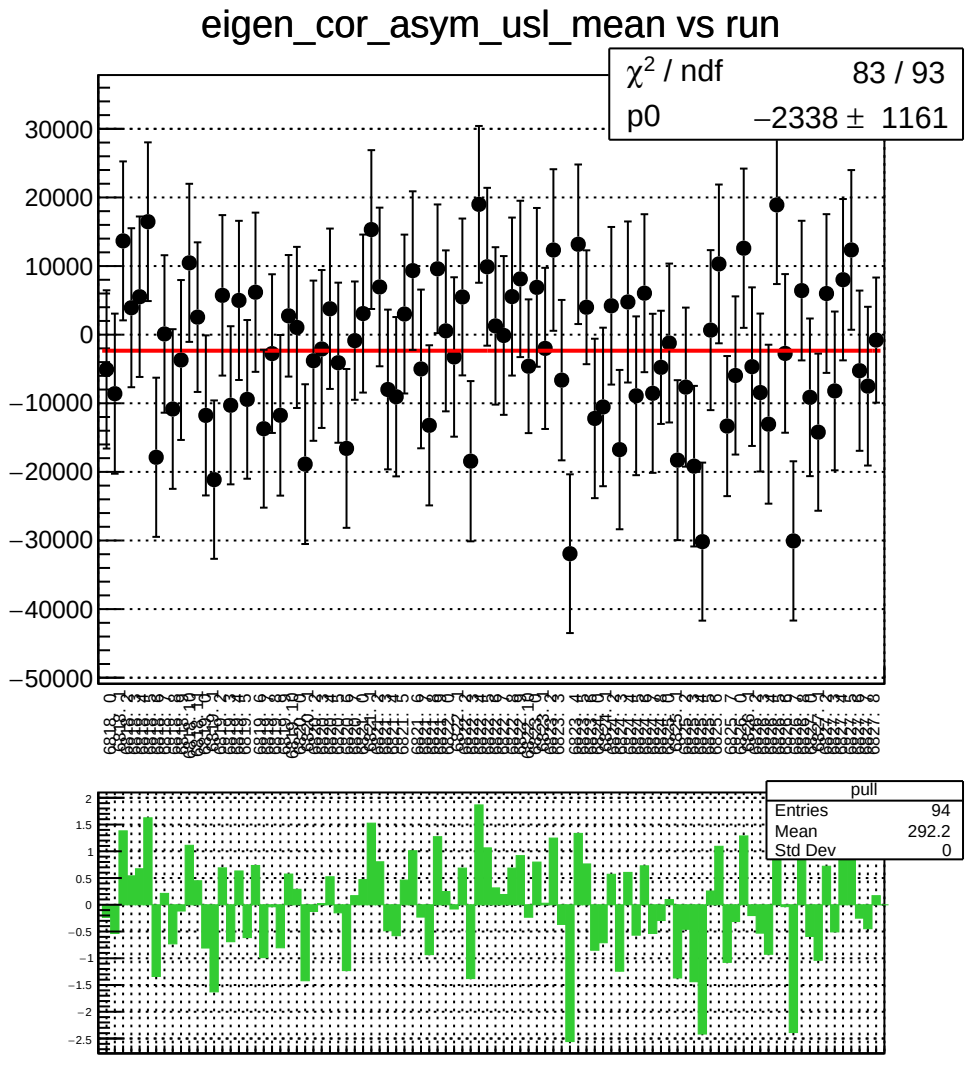

pull1D
Entries 94
Mean −0.008237
Std Dev 0.9428
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

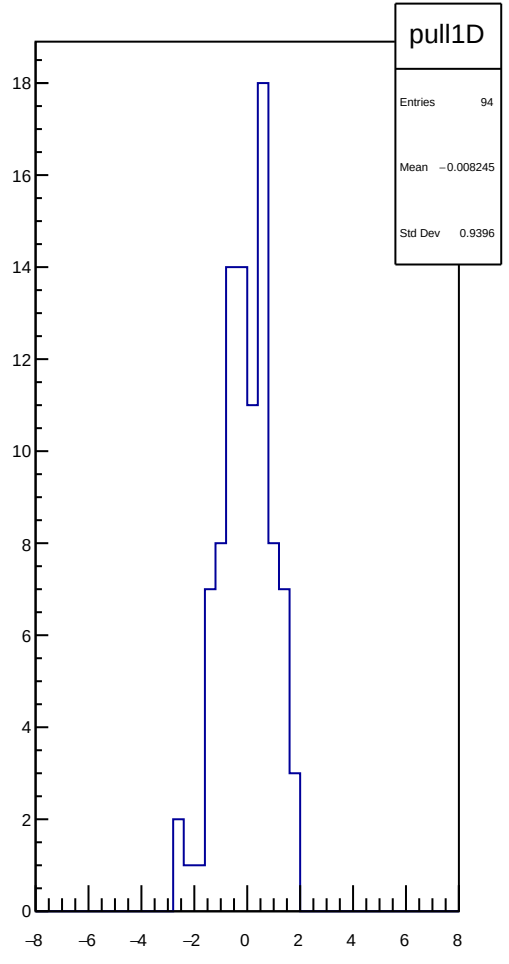

overload_cor_asym_usl_rms vs run
χ² / ndf 85.18 / 93
p0 1099 ± 0.8201
1120
1110
1100
1090
1080
1070

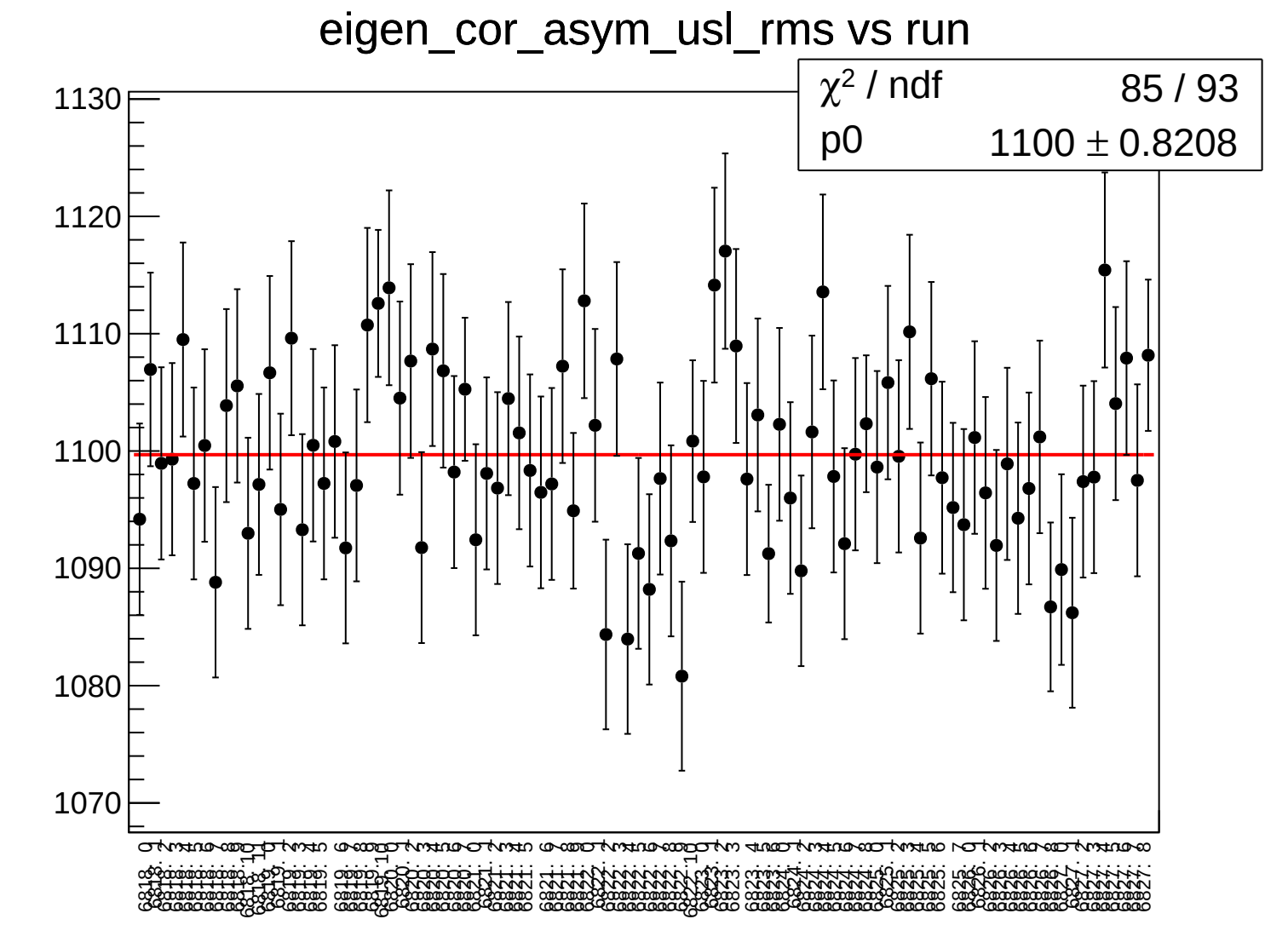

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 92.17 / 93
p0 −458.5 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −521.9
Std Dev 0
2
1
0
−1
−2
−3

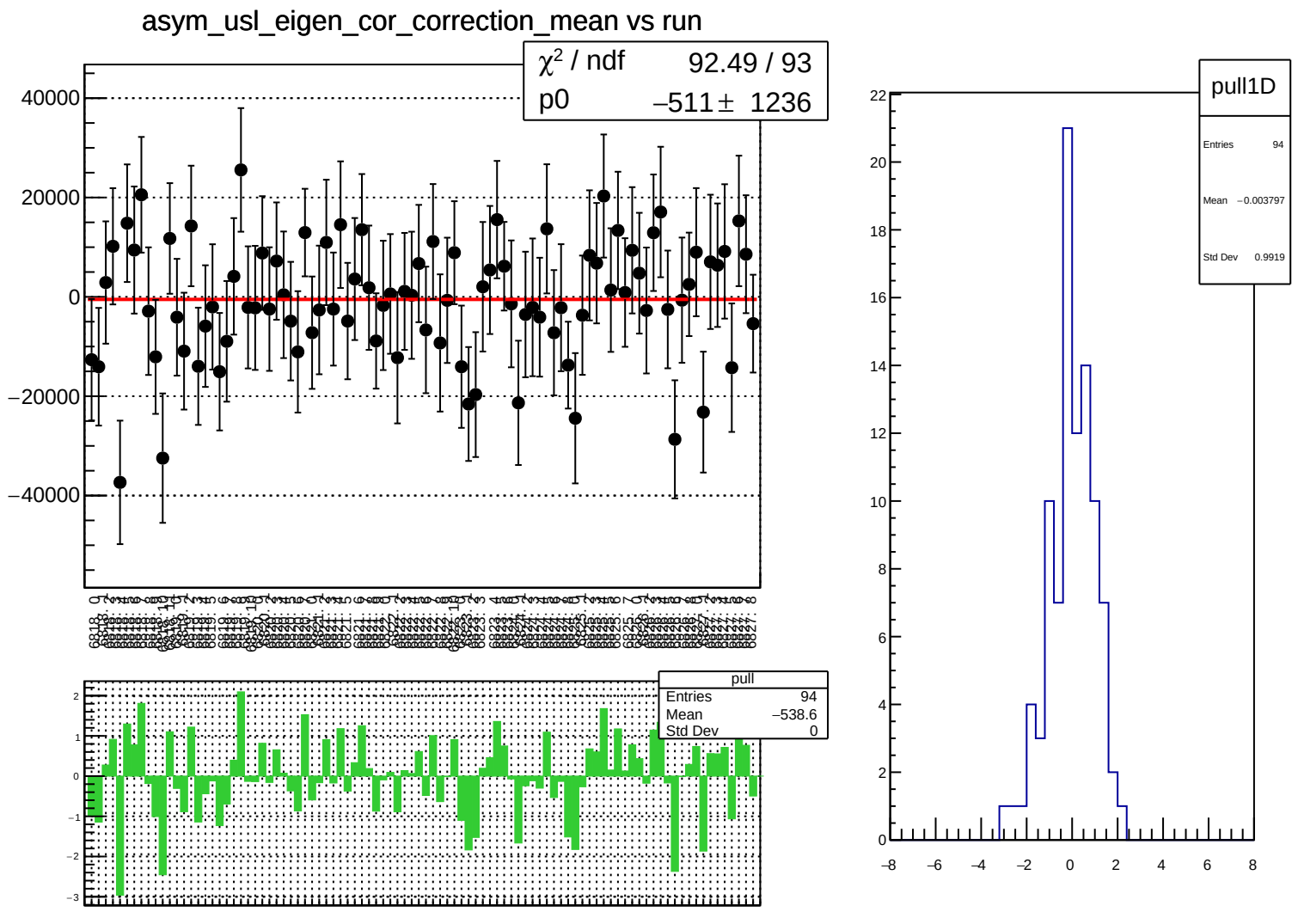

pull1D
Entries 94
Mean −0.003894
Std Dev 0.9902
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

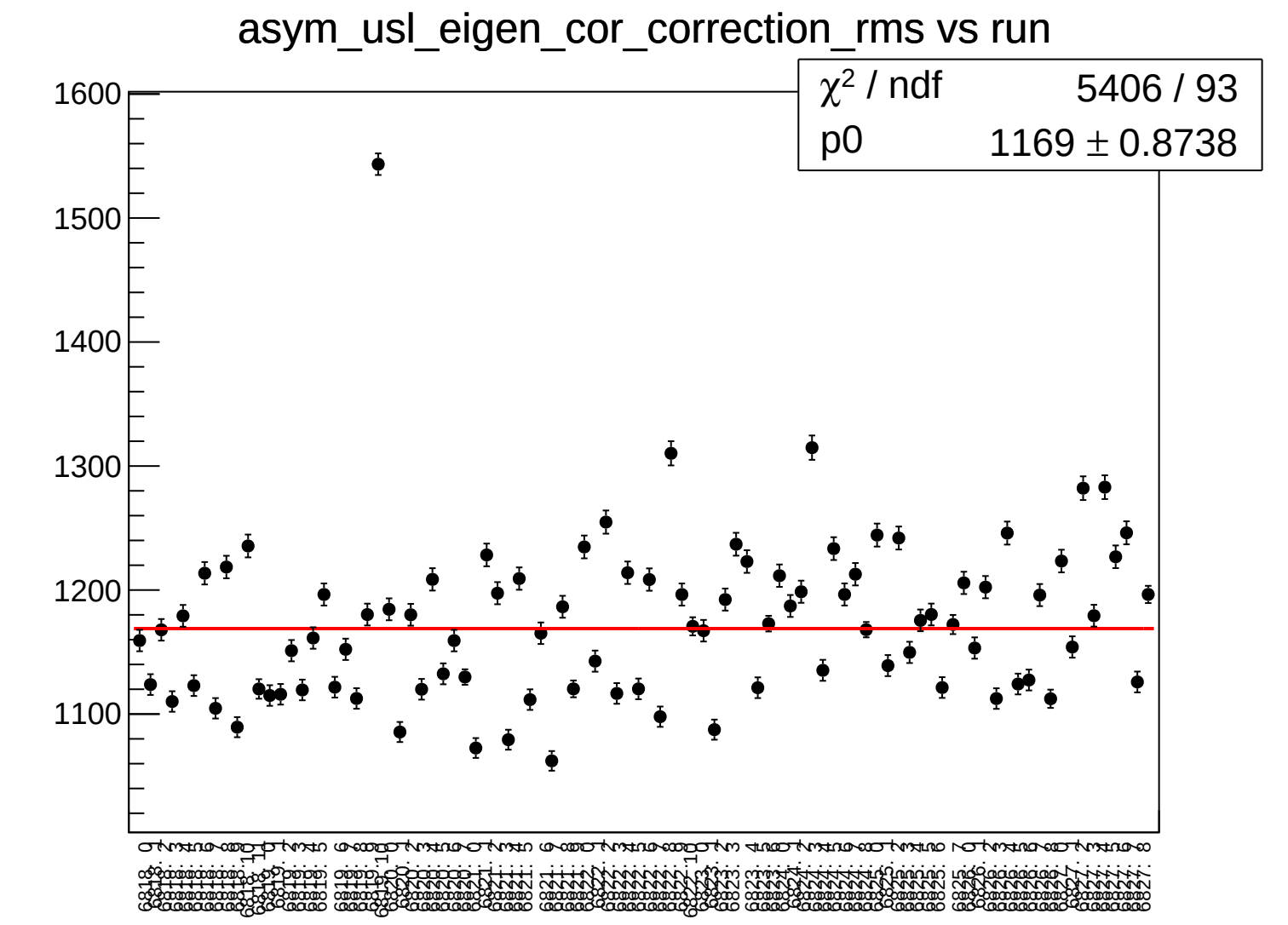

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 5392 / 93
p0 1170 ± 0.8744
1600
1500
1400
1300
1200
1100

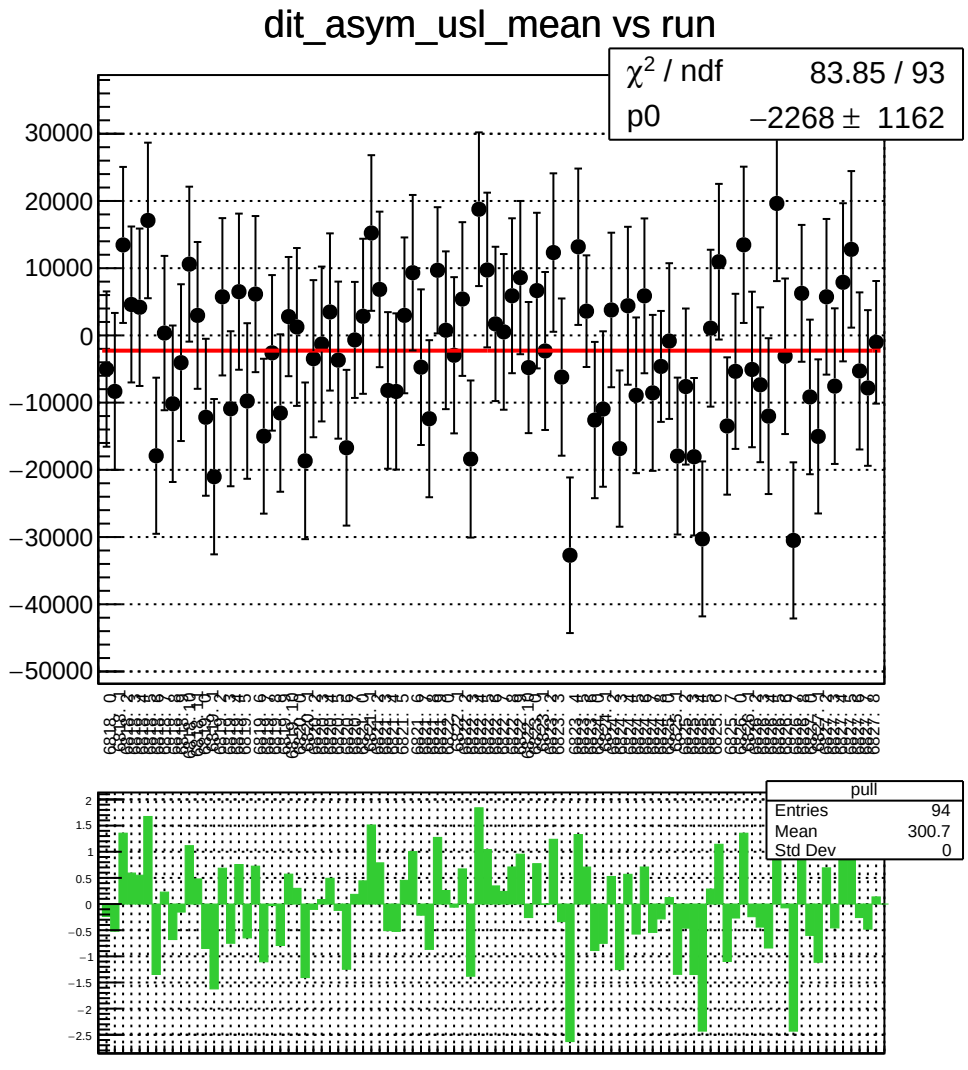

eigen_cor_asym_usl_mean vs run
χ² / ndf 83 / 93
p0 −2338 ± 1161
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean 292.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

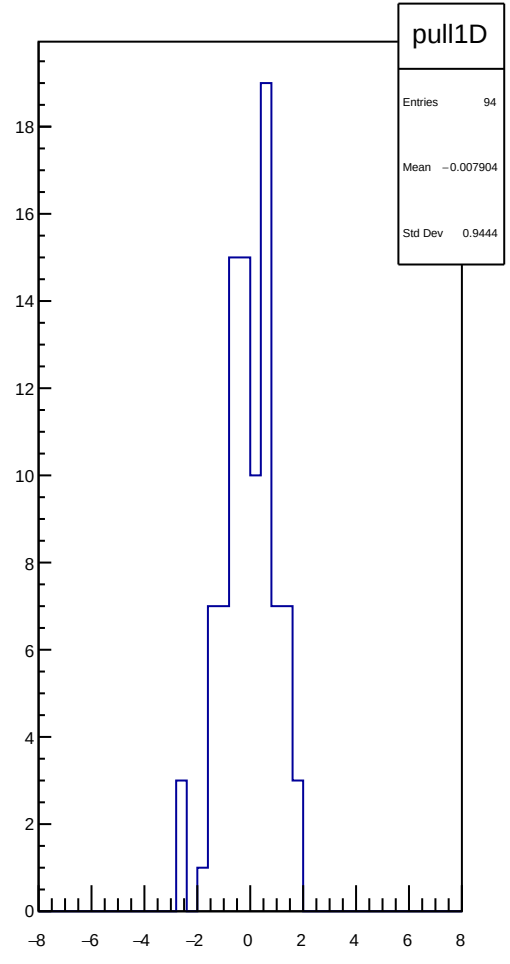

pull1D
Entries 94
Mean −0.008245
Std Dev 0.9396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

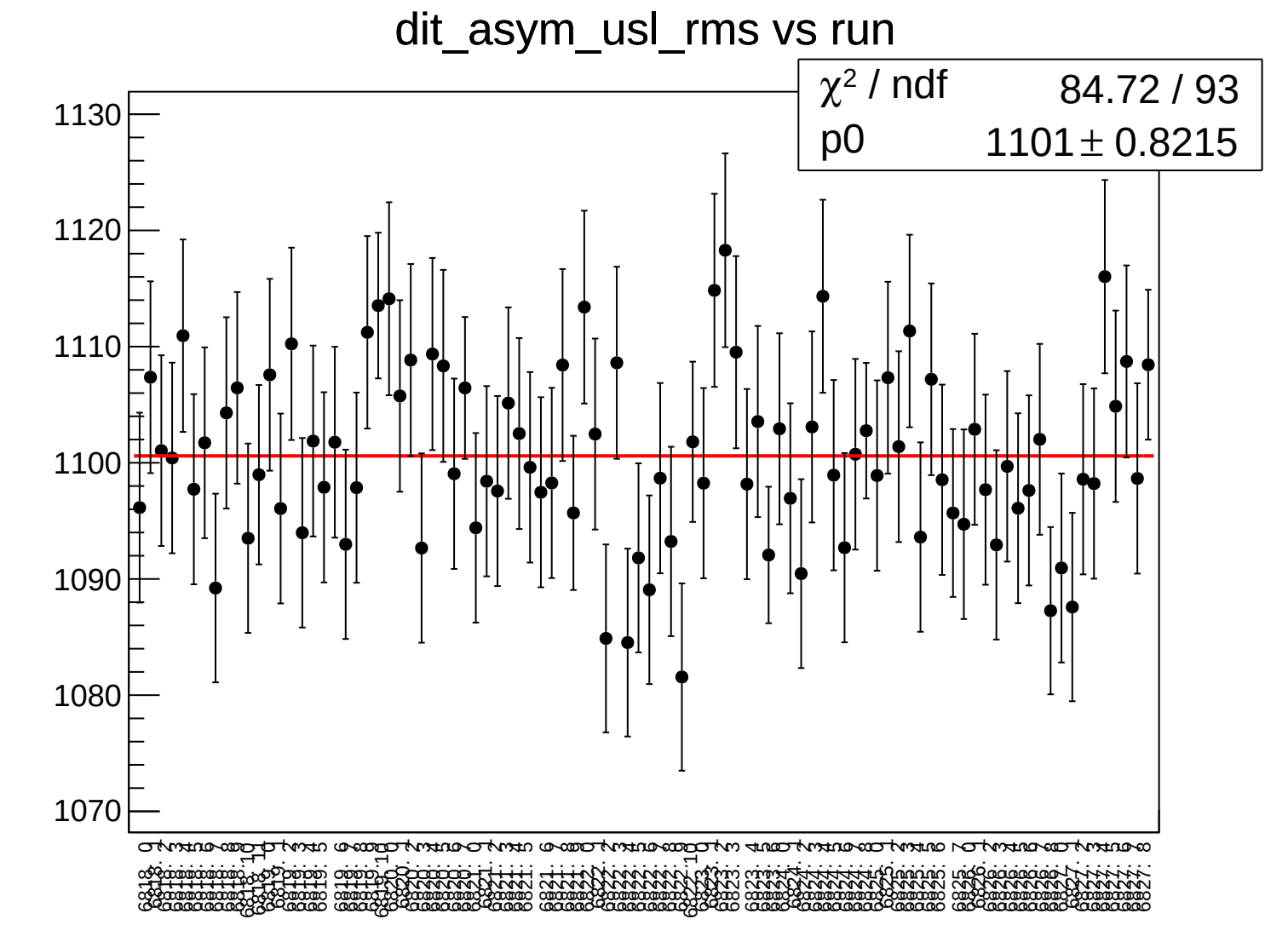

eigen_cor_asym_usl_rms vs run
χ² / ndf 85 / 93
p0 1100 ± 0.8208
1130
1120
1110
1100
1090
1080
1070

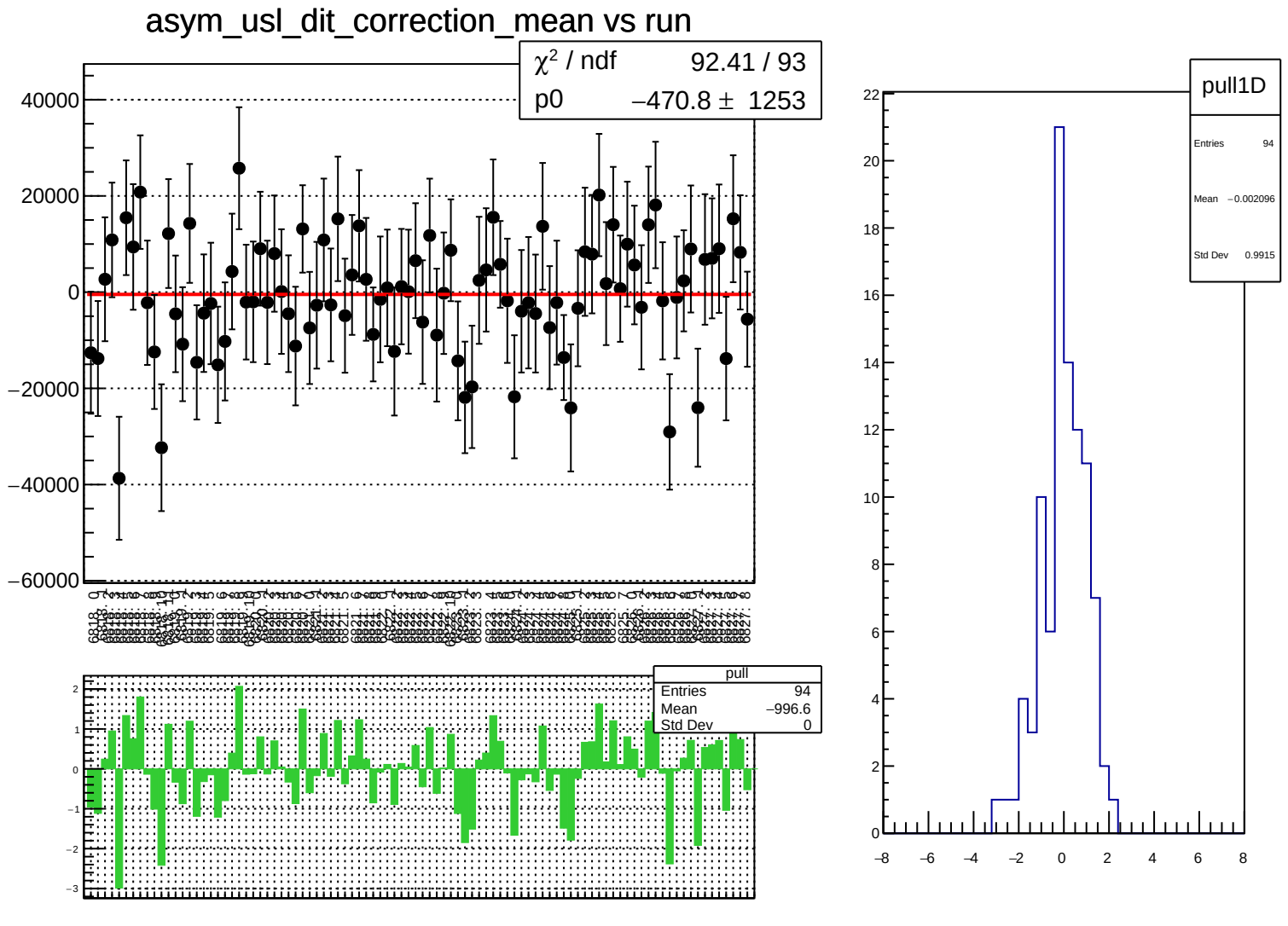

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 92.49 / 93
p0 −511 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −538.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003797
Std Dev 0.9919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

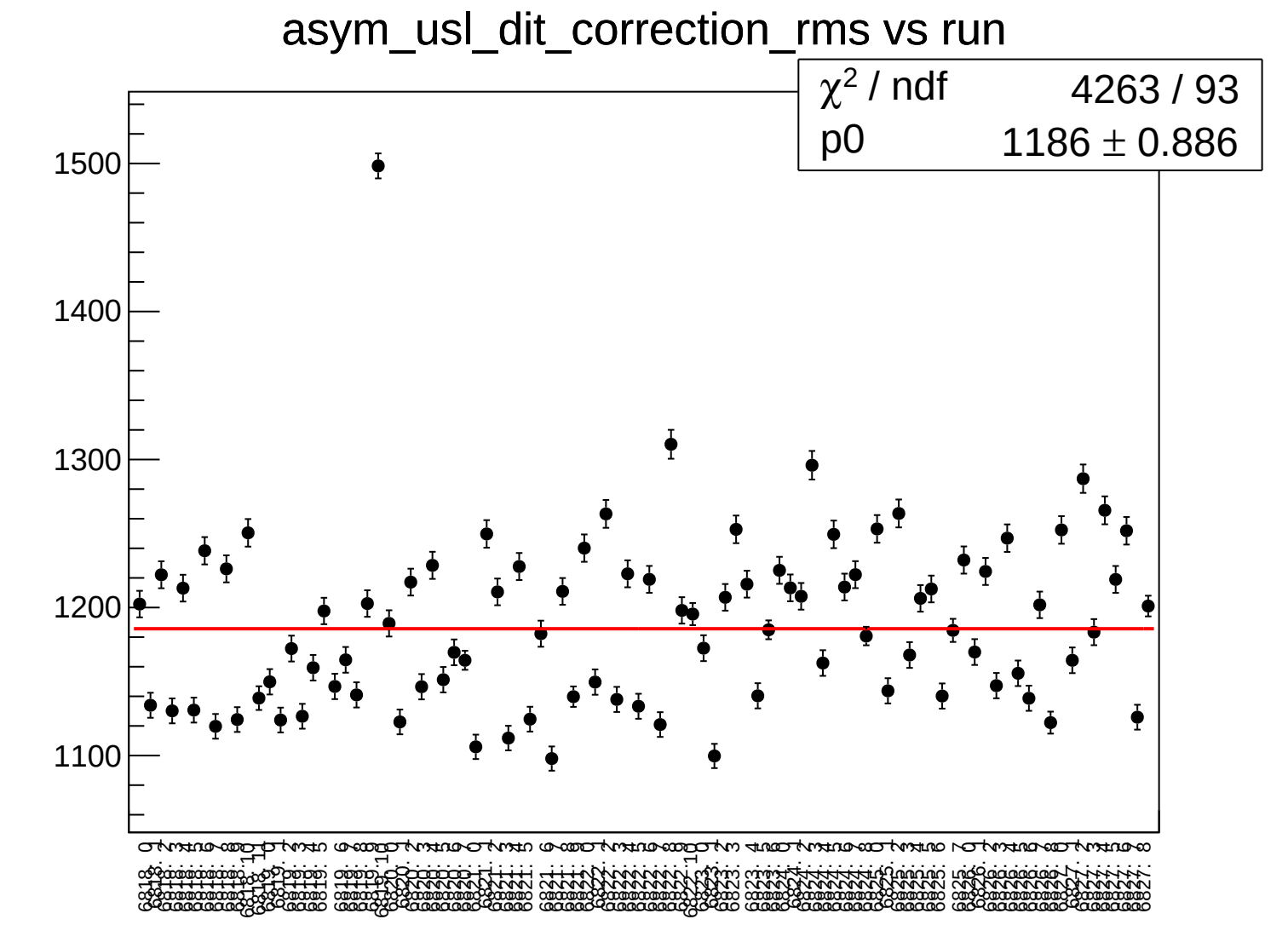

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 5406 / 93
p0 1169 ± 0.8738
1600
1500
1400
1300
1200
1100

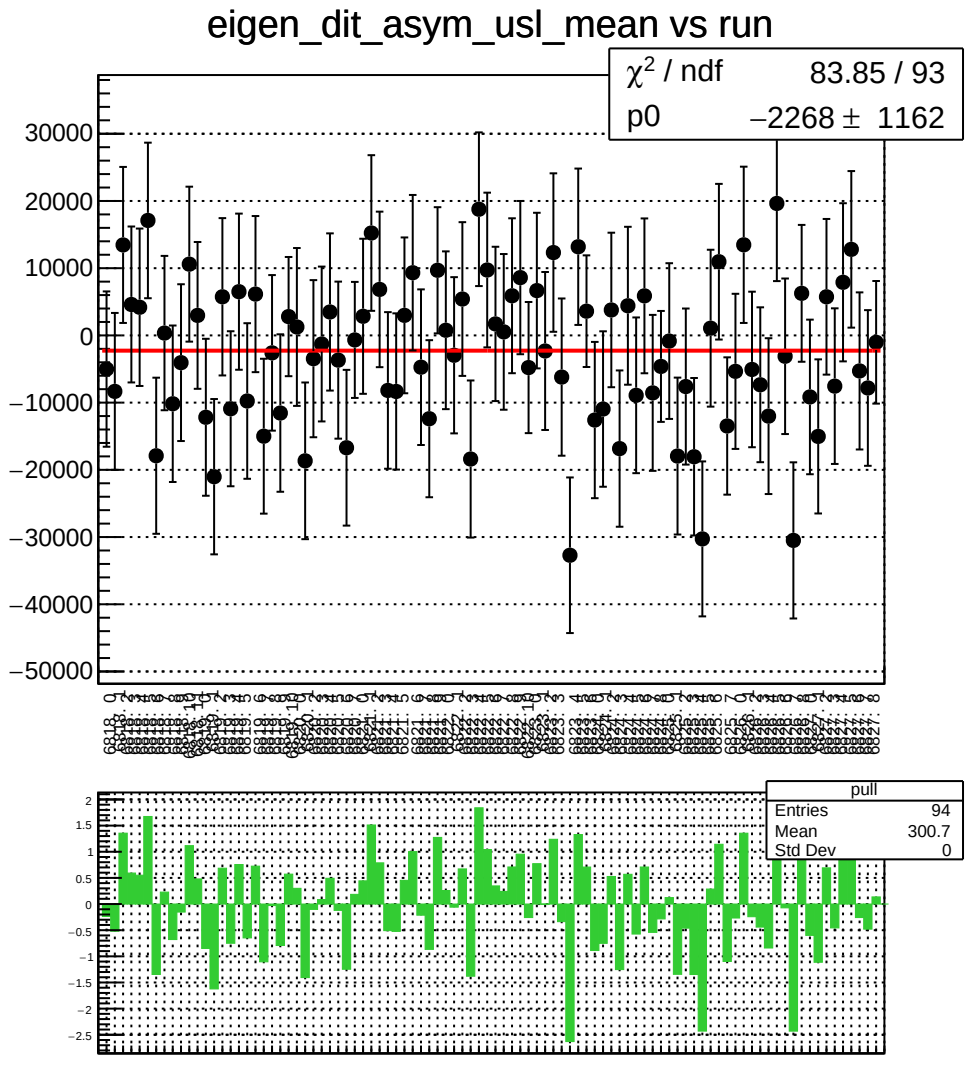

dit_asym_usl_mean vs run
χ² / ndf 83.85 / 93
p0 −2268 ± 1162
pull
Entries 94
Mean 300.7
Std Dev 0

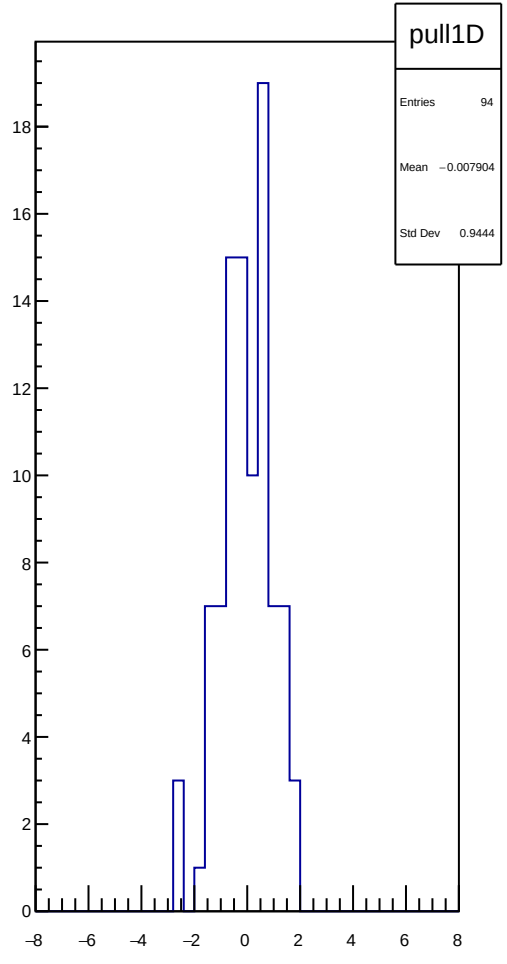

pull1D
Entries 94
Mean −0.007904
Std Dev 0.9444

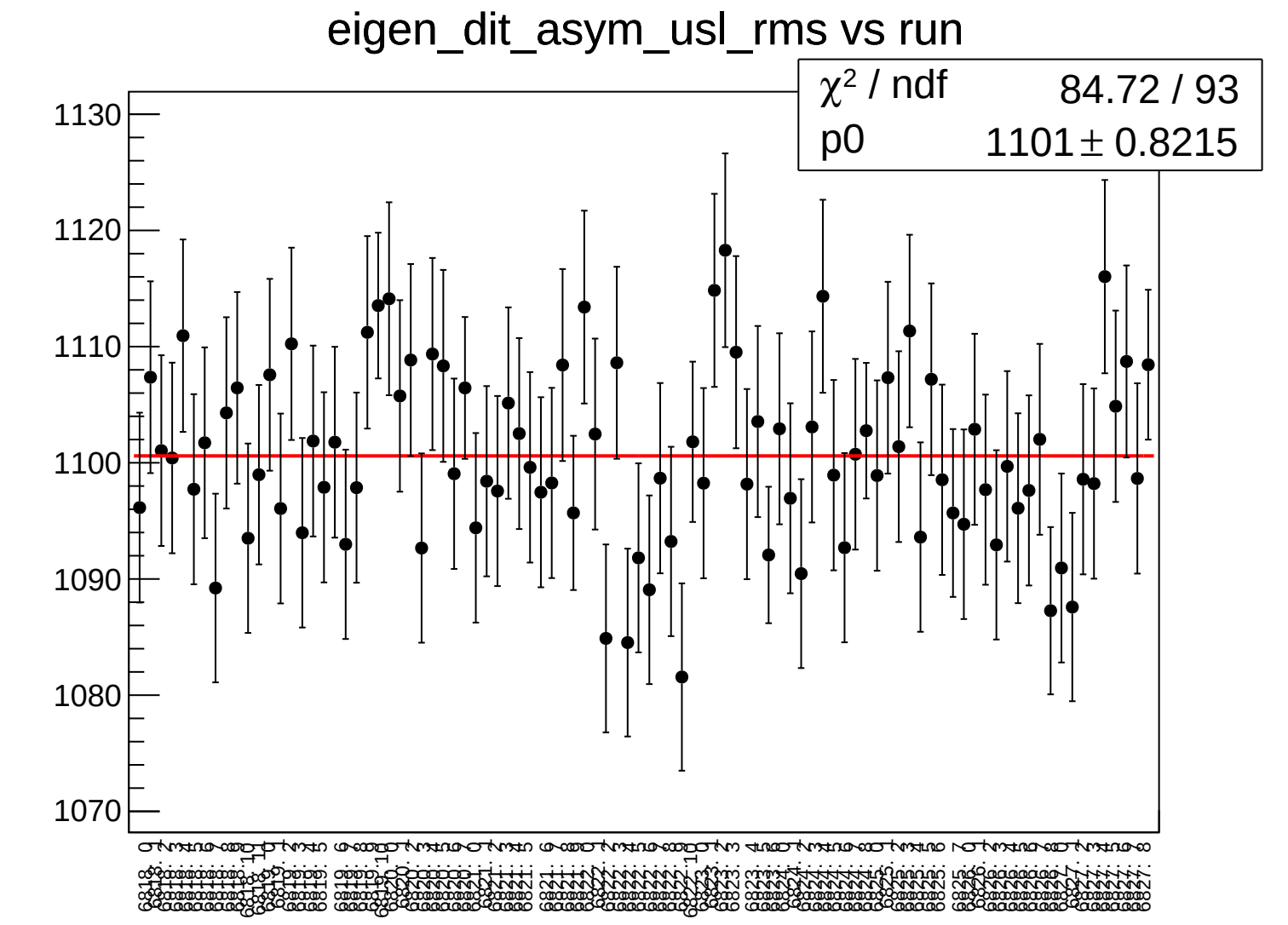

dit_asym_usl_rms vs run
χ² / ndf 84.72 / 93
p0 1101 ± 0.8215
1130
1120
1110
1100
1090
1080
1070

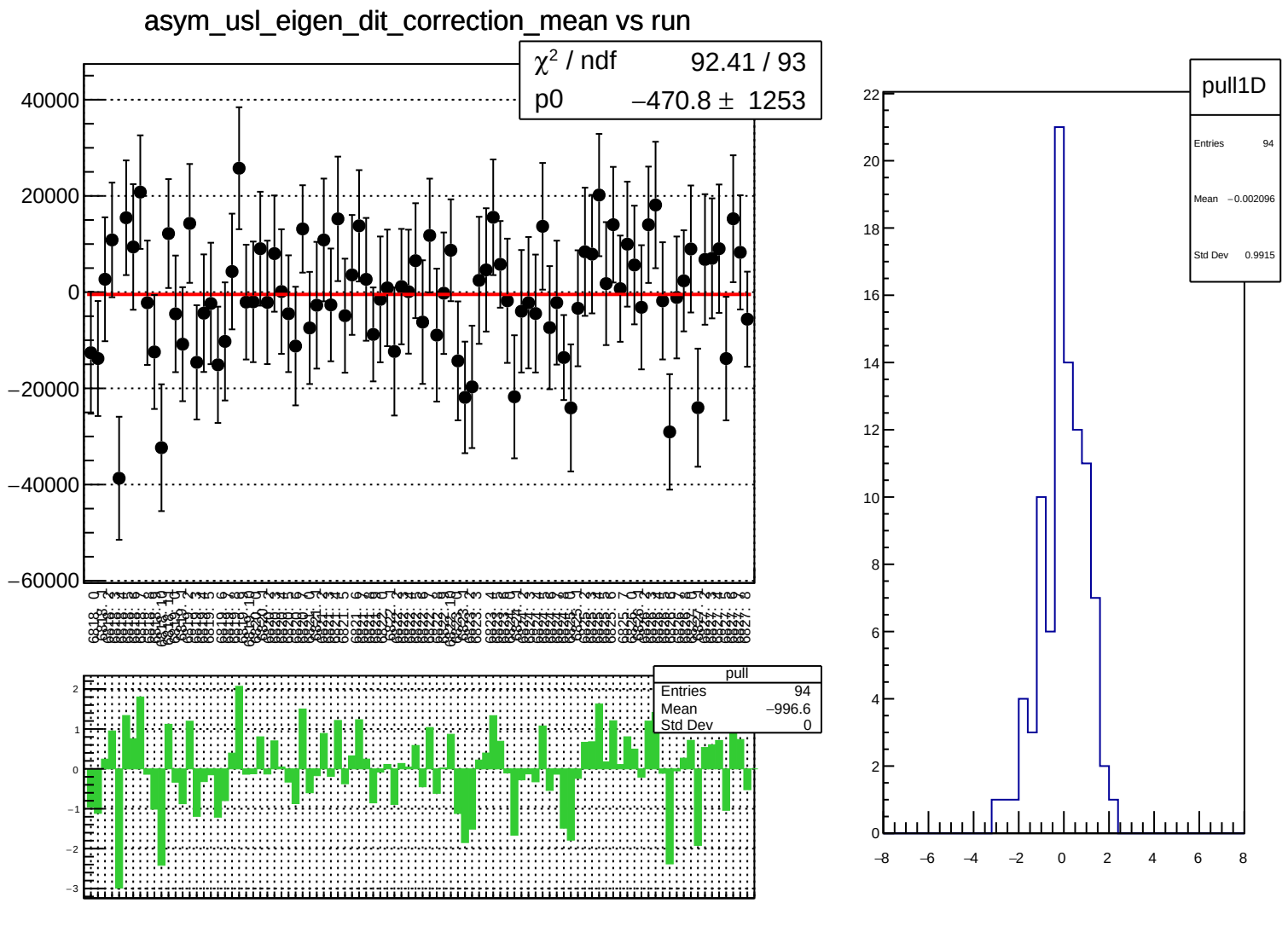

asym_usl_dit_correction_mean vs run
χ² / ndf 92.41 / 93
p0 −470.8 ± 1253
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −996.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002096
Std Dev 0.9915
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

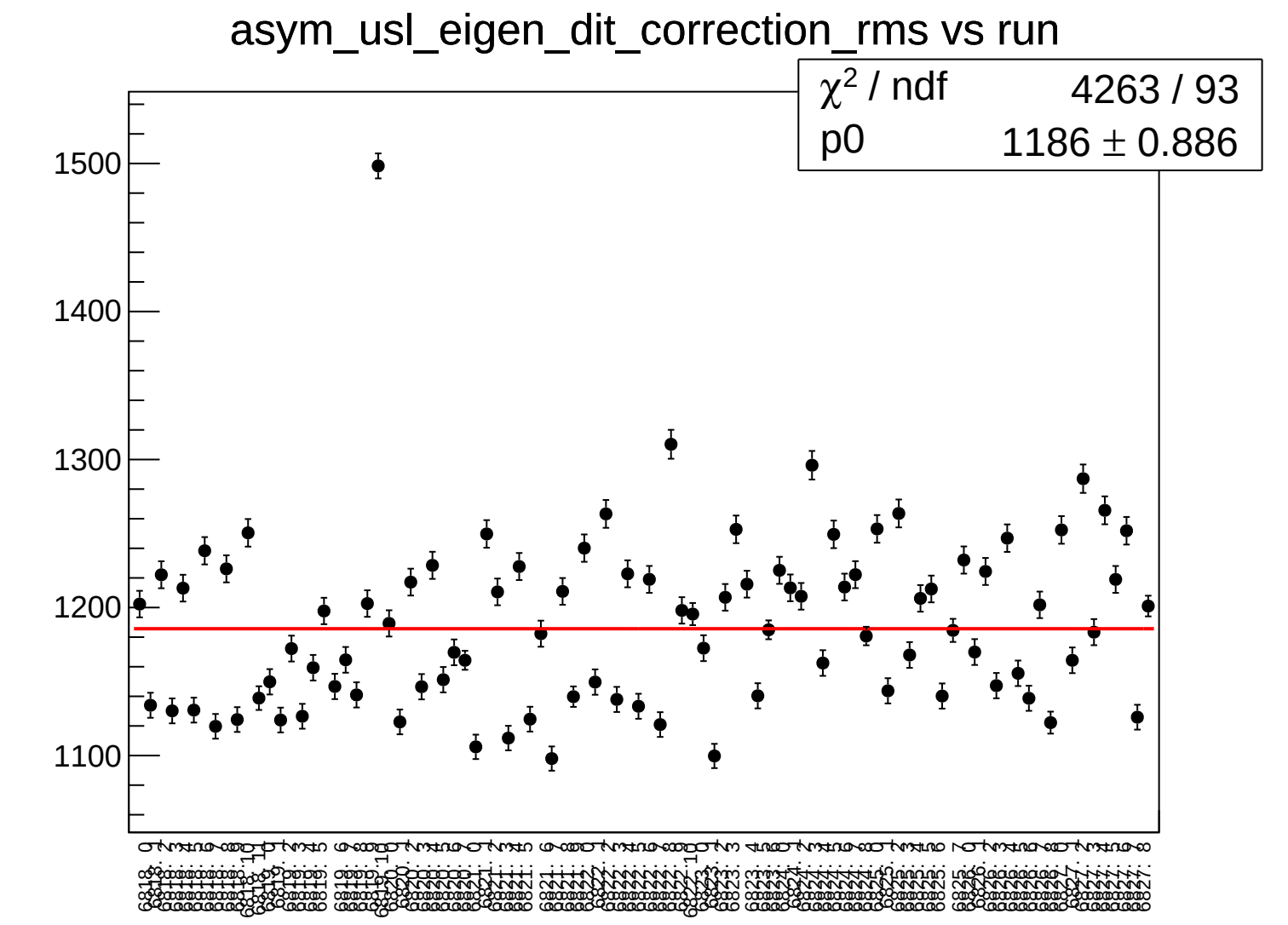

asym_usl_dit_correction_rms vs run
χ² / ndf 4263 / 93
p0 1186 ± 0.886
1500
1400
1300
1200
1100

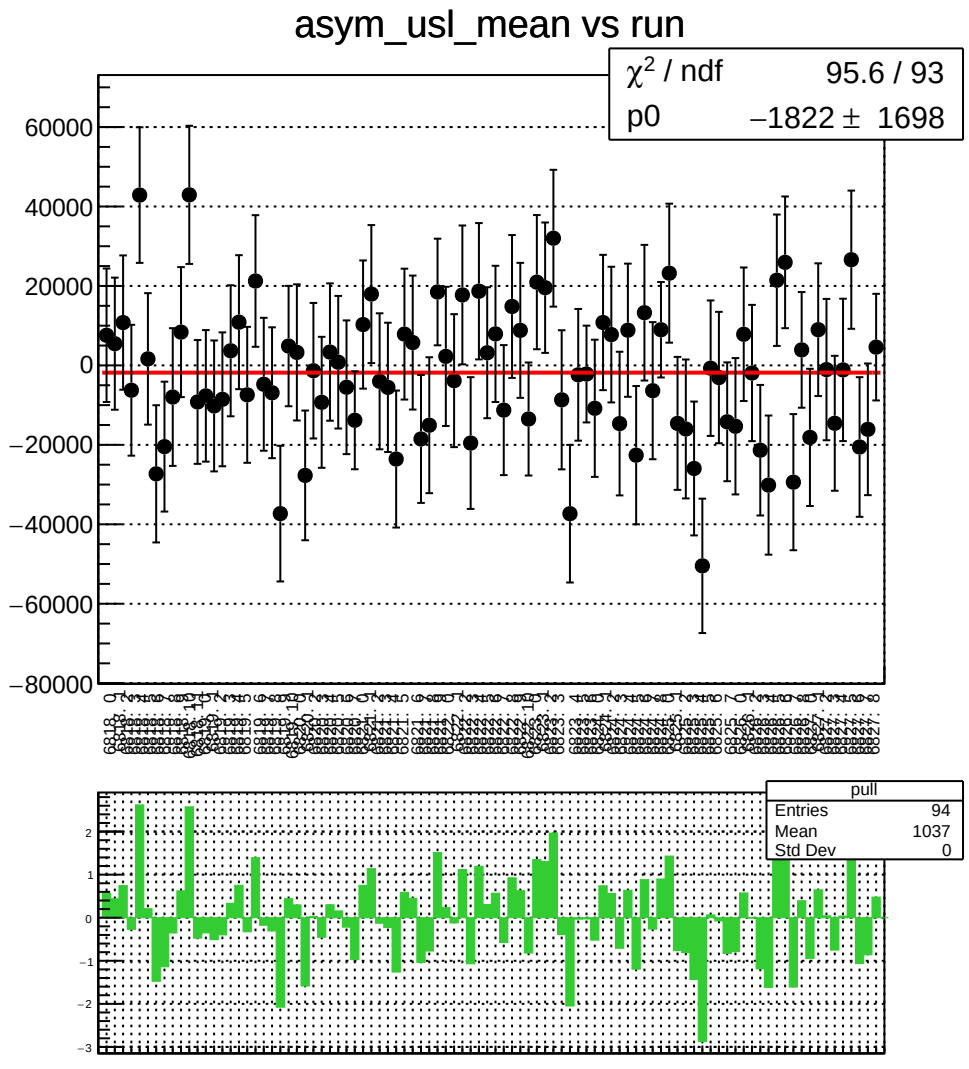

eigen_dit_asym_usl_mean vs run
χ² / ndf 83.85 / 93
p0 −2268 ± 1162
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean 300.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

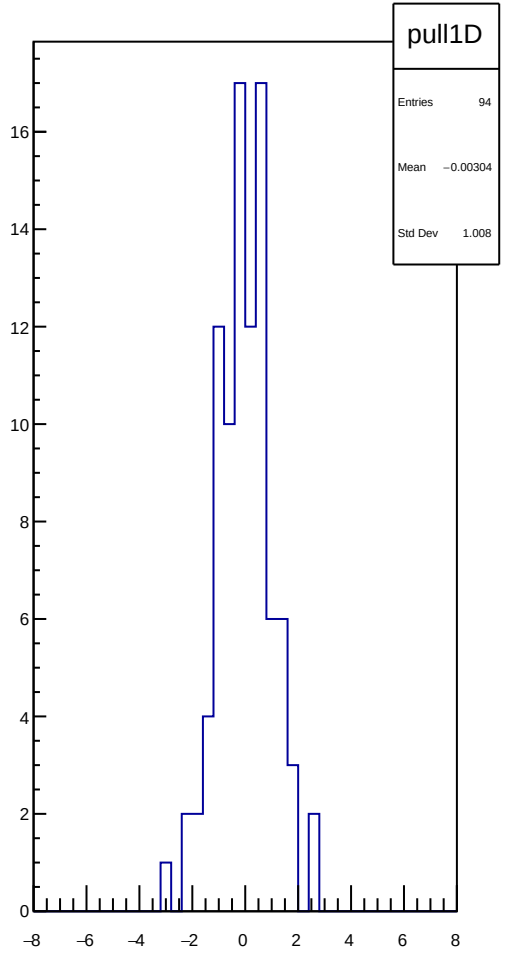

pull1D
Entries 94
Mean −0.007904
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

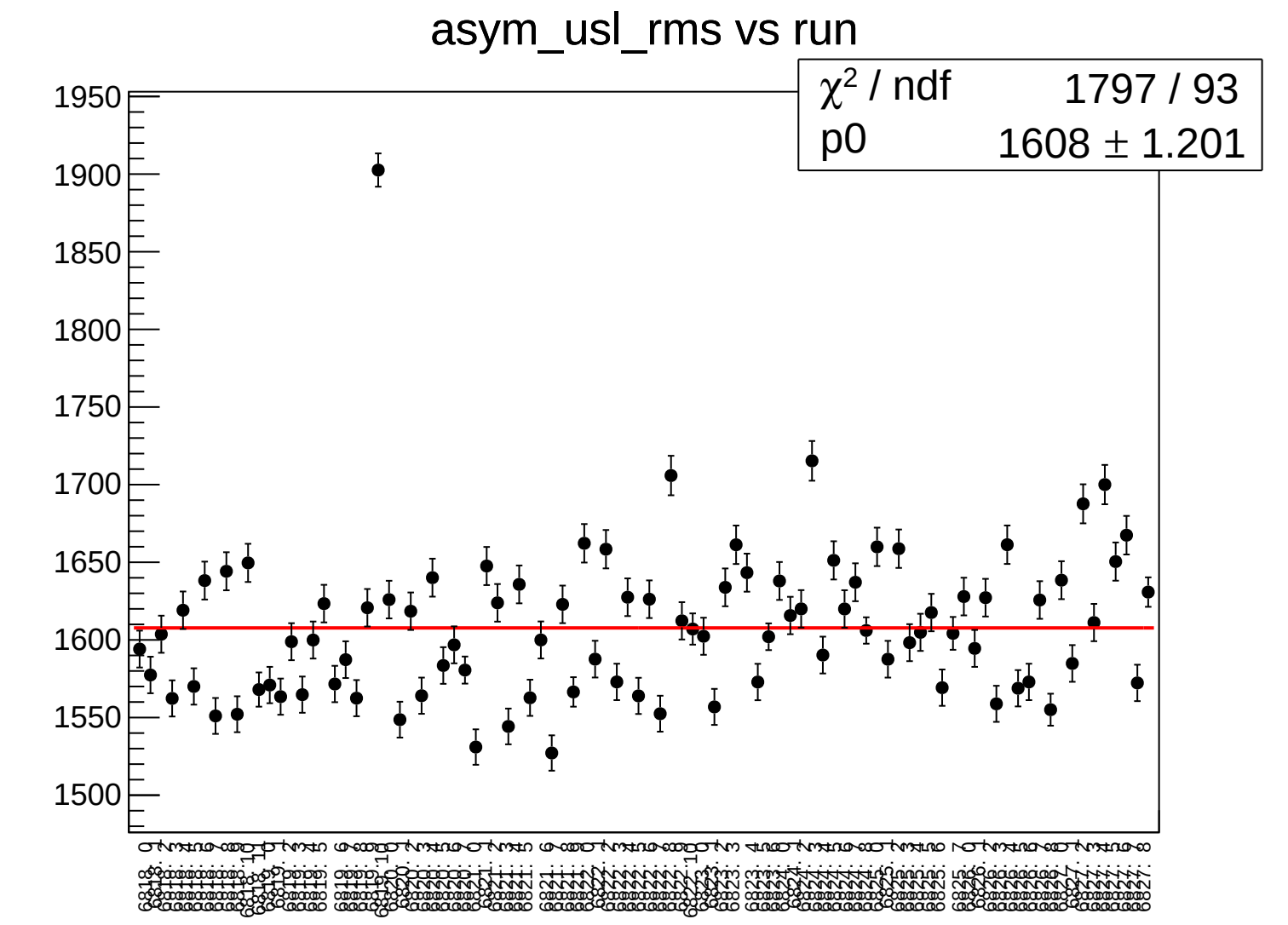

eigen_dit_asym_usl_rms vs run
χ² / ndf 84.72 / 93
p0 1101 ± 0.8215
1130
1120
1110
1100
1090
1080
1070

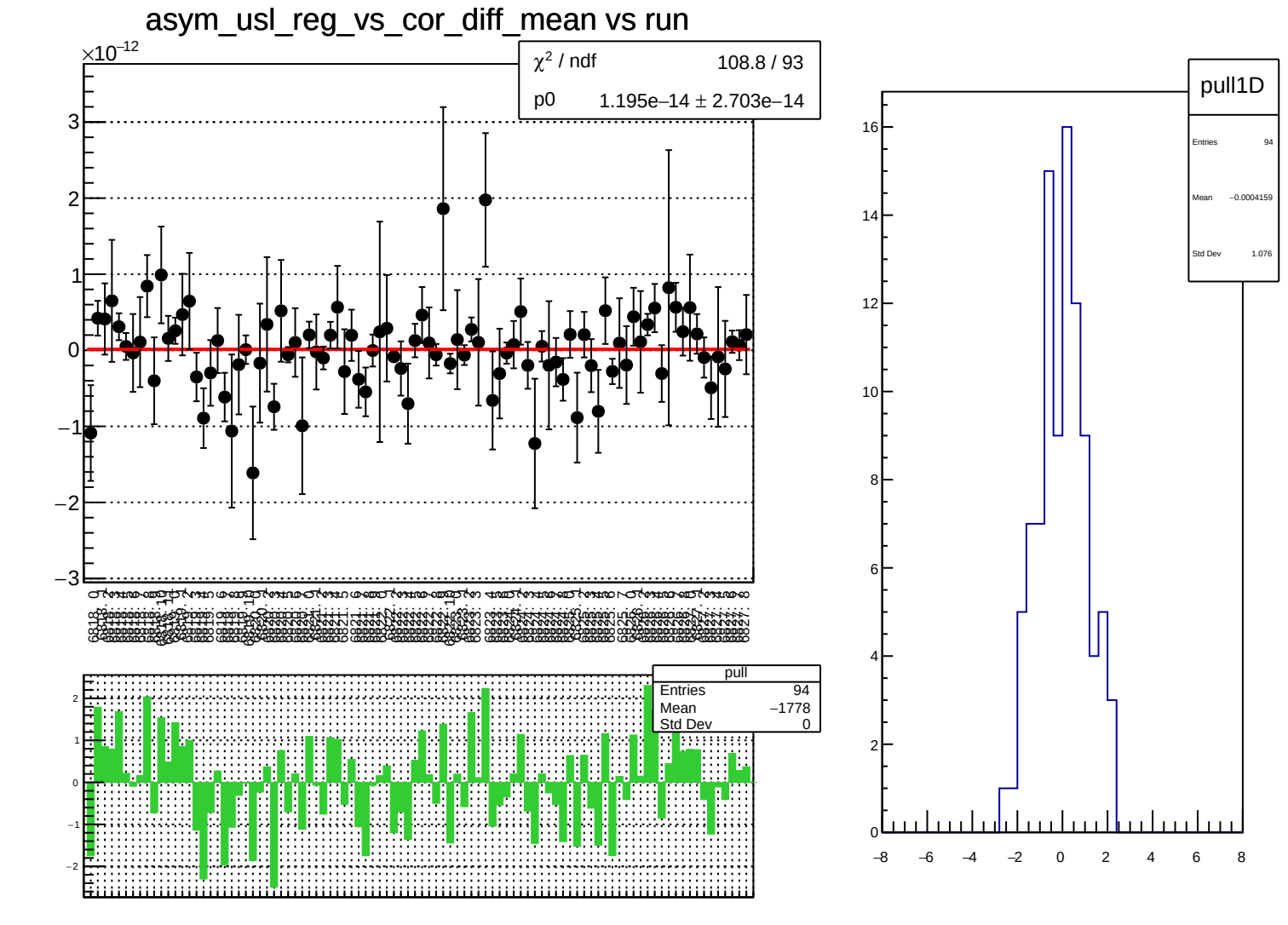

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 92.41 / 93
p0 −470.8 ± 1253
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −996.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002096
Std Dev 0.9915
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

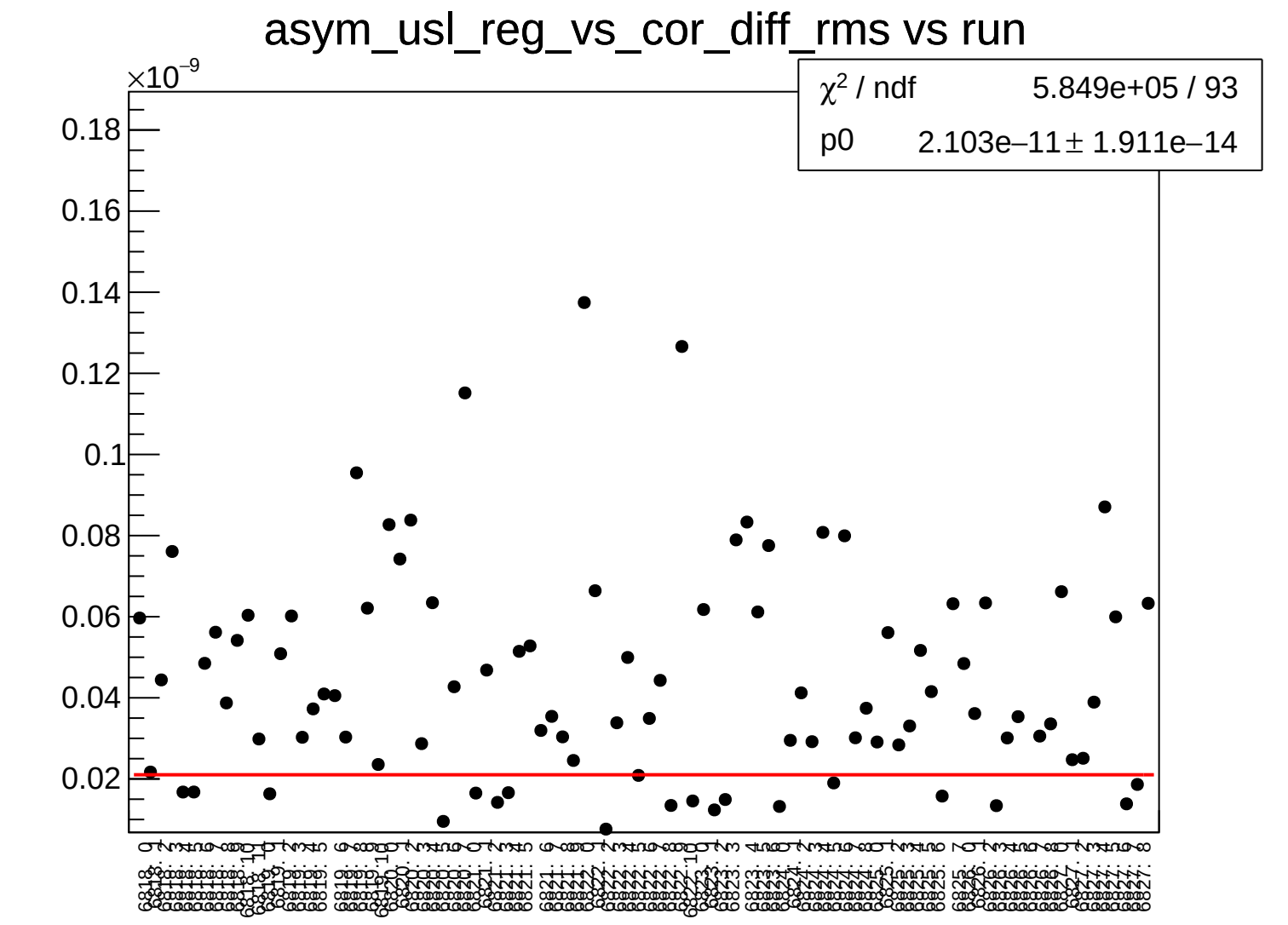

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4263 / 93
p0 1186 ± 0.886
1500
1400
1300
1200
1100

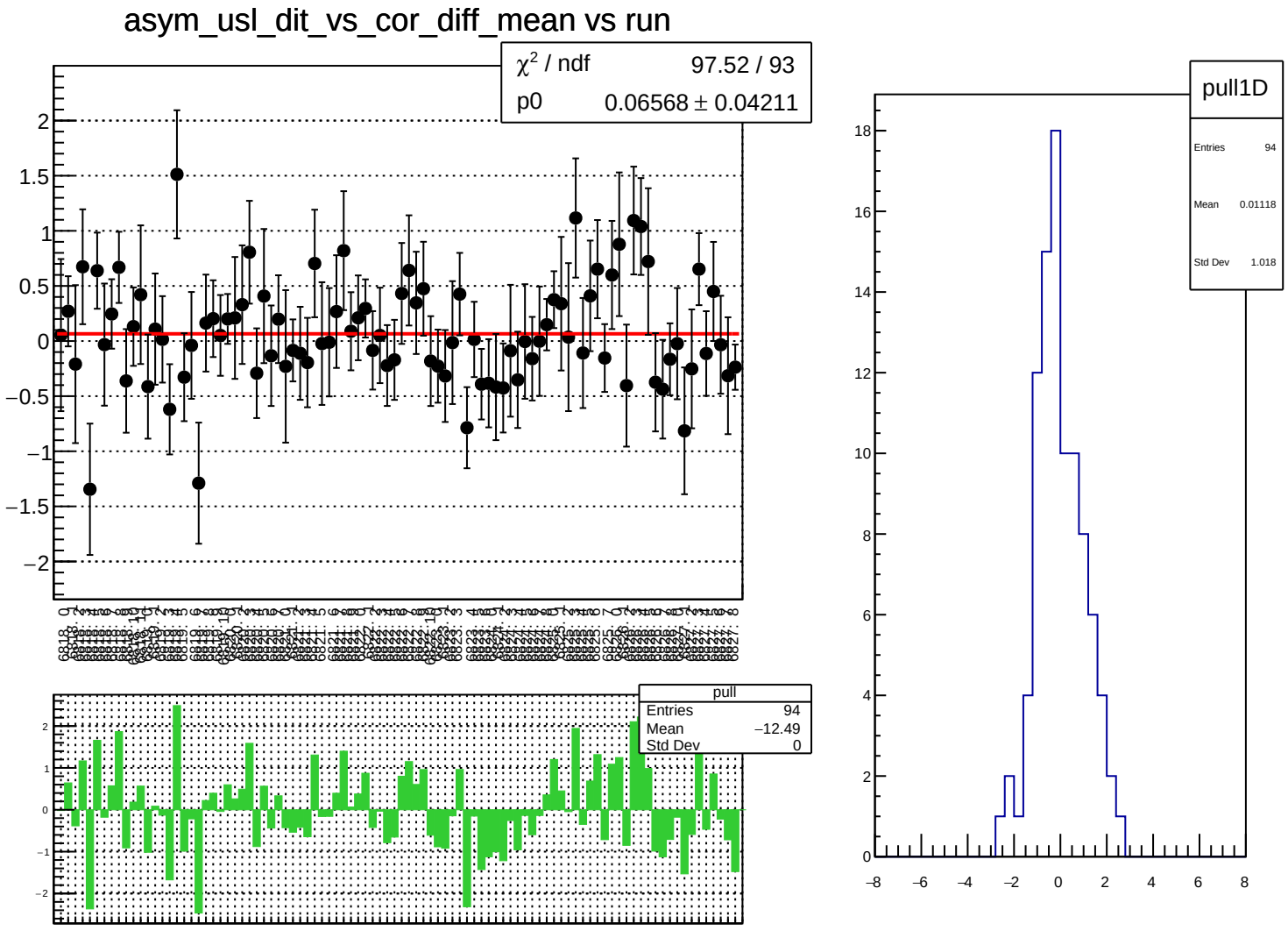

asym_usl_mean vs run
χ² / ndf 95.6 / 93
p0 −1822 ± 1698
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 1037
Std Dev 0
2
1
0
−1
−2
−3

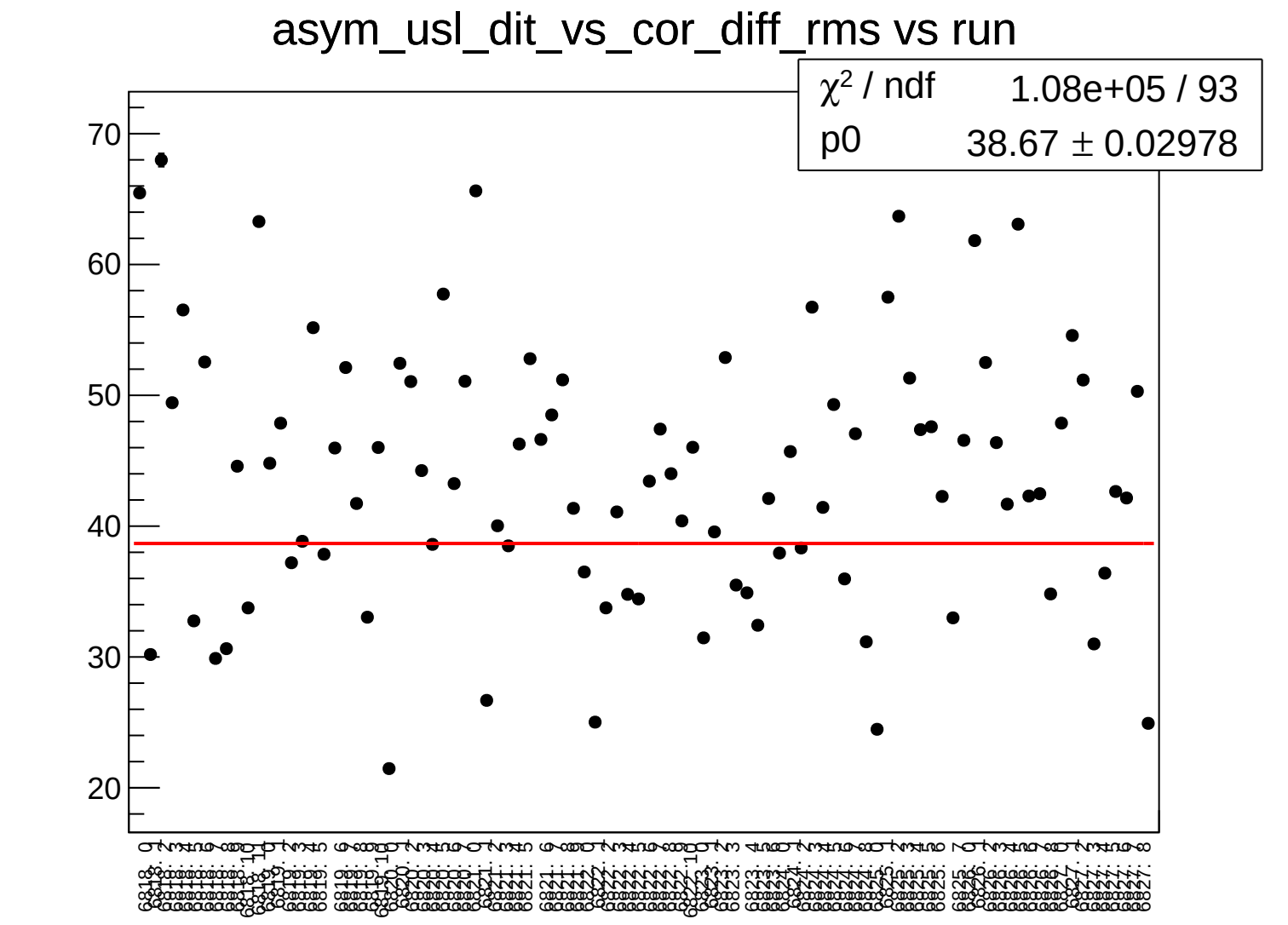

pull1D
Entries 94
Mean −0.00304
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

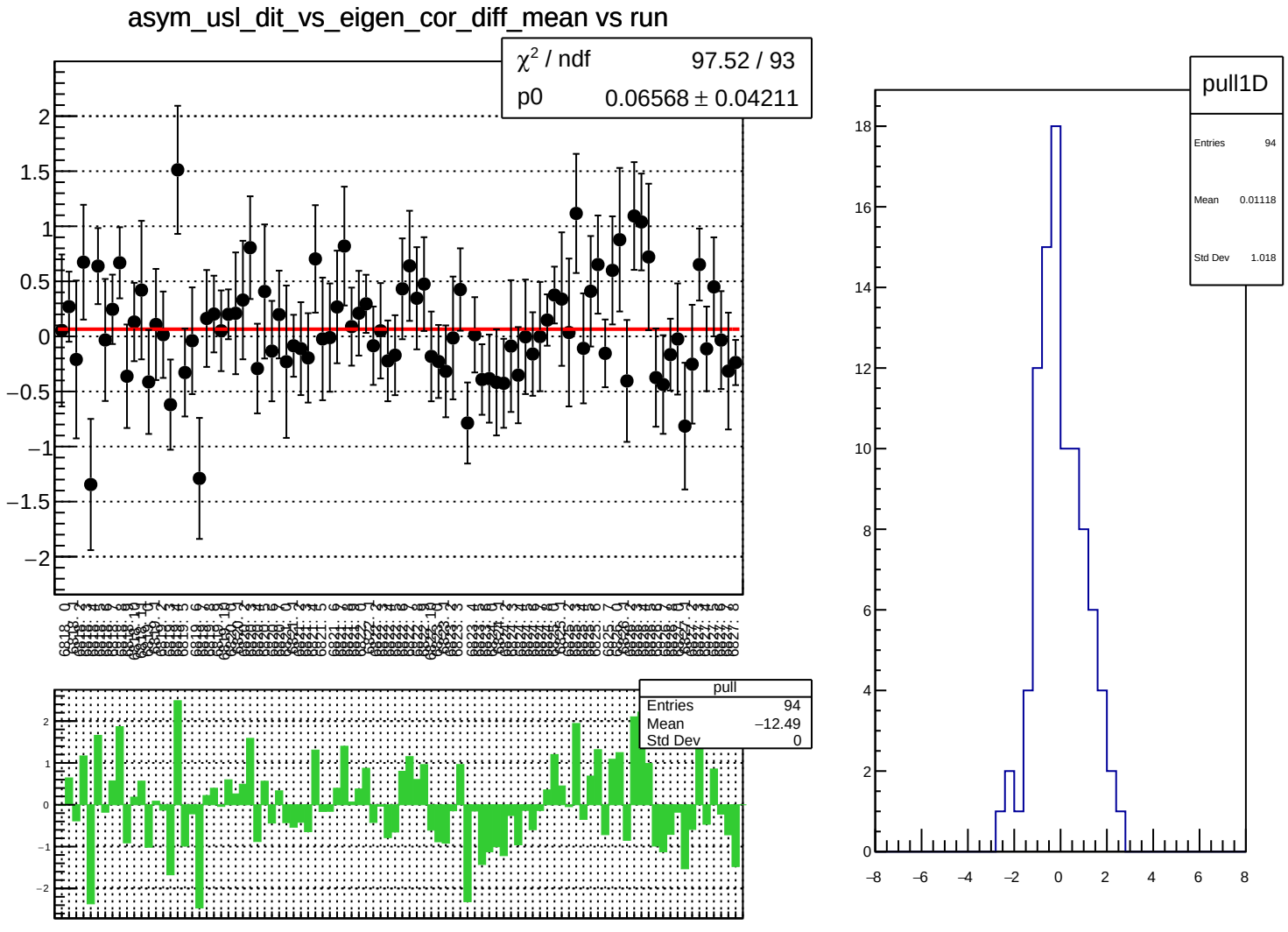

asym_usl_rms vs run
χ² / ndf 1797 / 93
p0 1608 ± 1.201
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

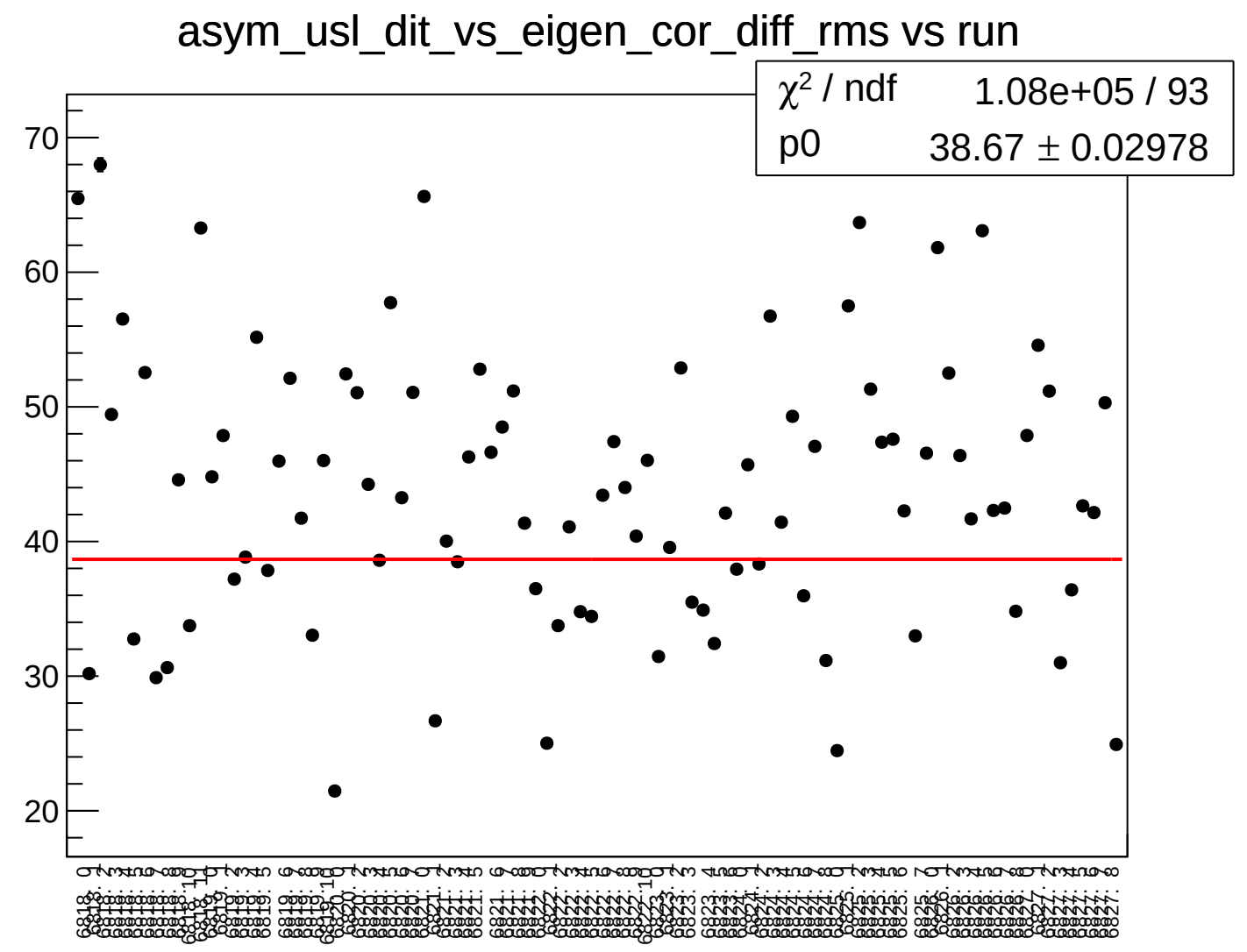

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.8 / 93
p0 1.195e−14 ± 2.703e−14
pull
Entries 94
Mean −1778
Std Dev 0
pull1D
Entries 94
Mean −0.0004159
Std Dev 1.076

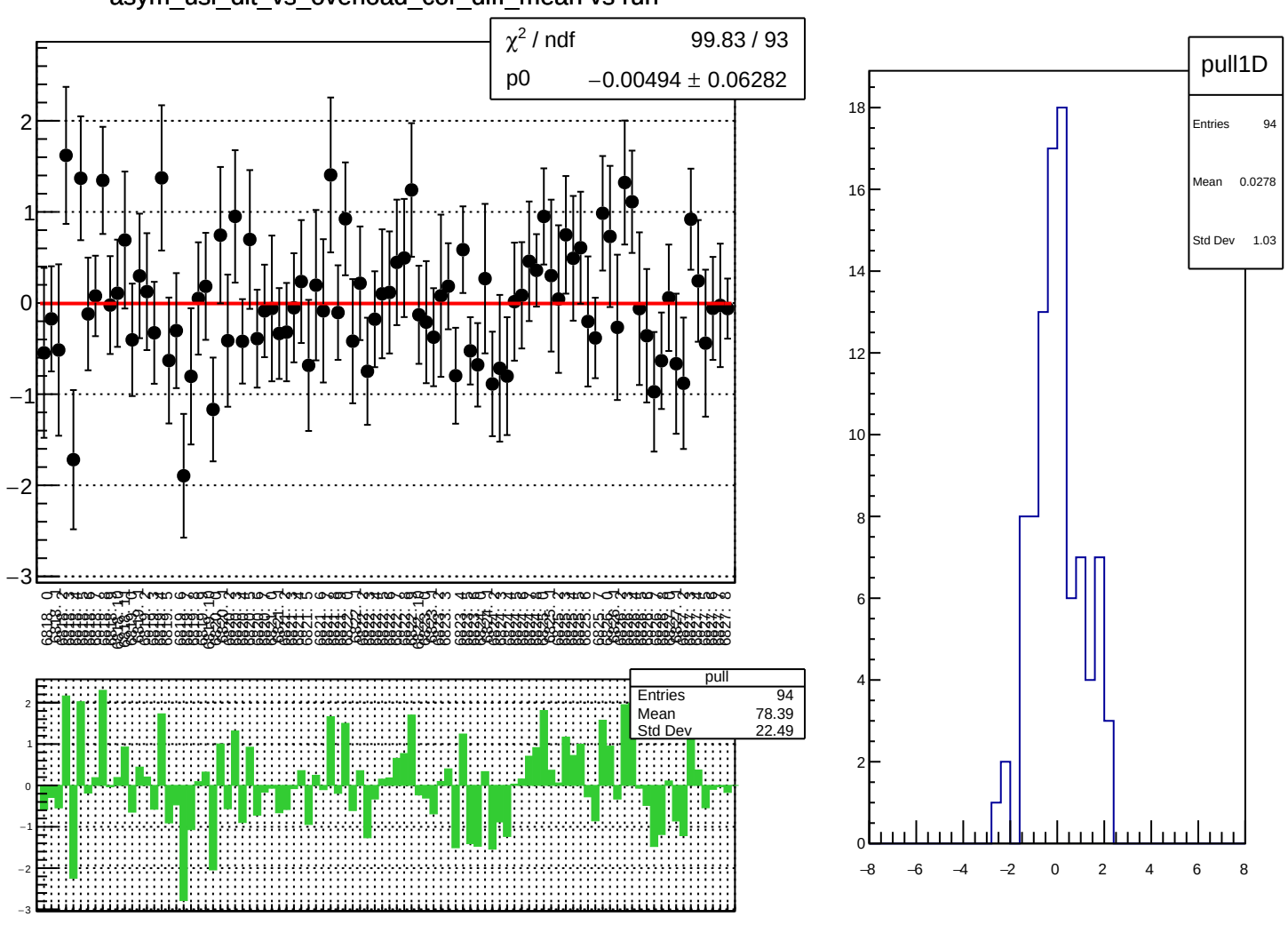

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.849e+05 / 93
p0 2.103e−11 ± 1.911e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

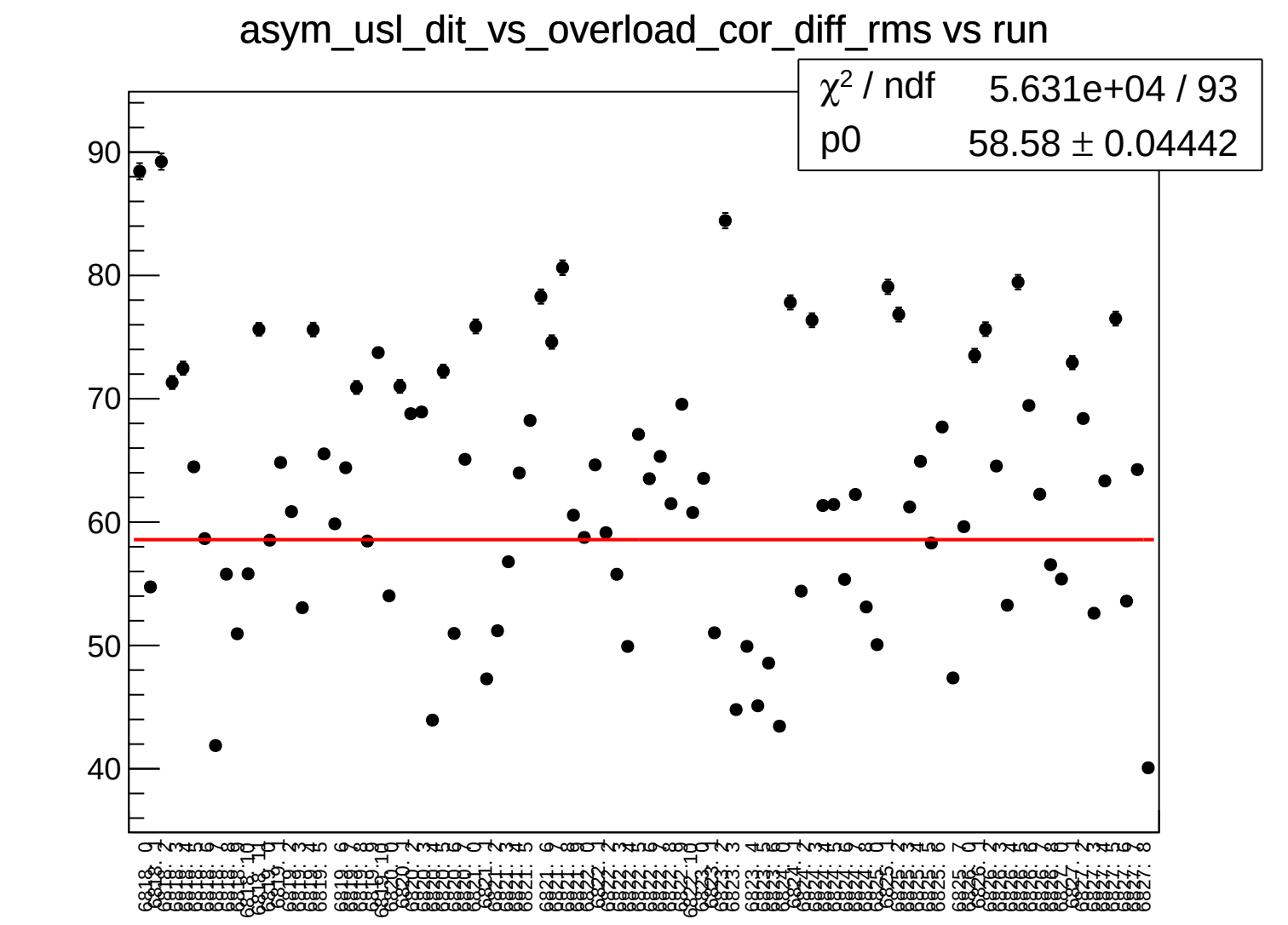

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.06568 ± 0.04211
pull
Entries 94
Mean −12.49
Std Dev 0
pull1D
Entries 94
Mean 0.01118
Std Dev 1.018

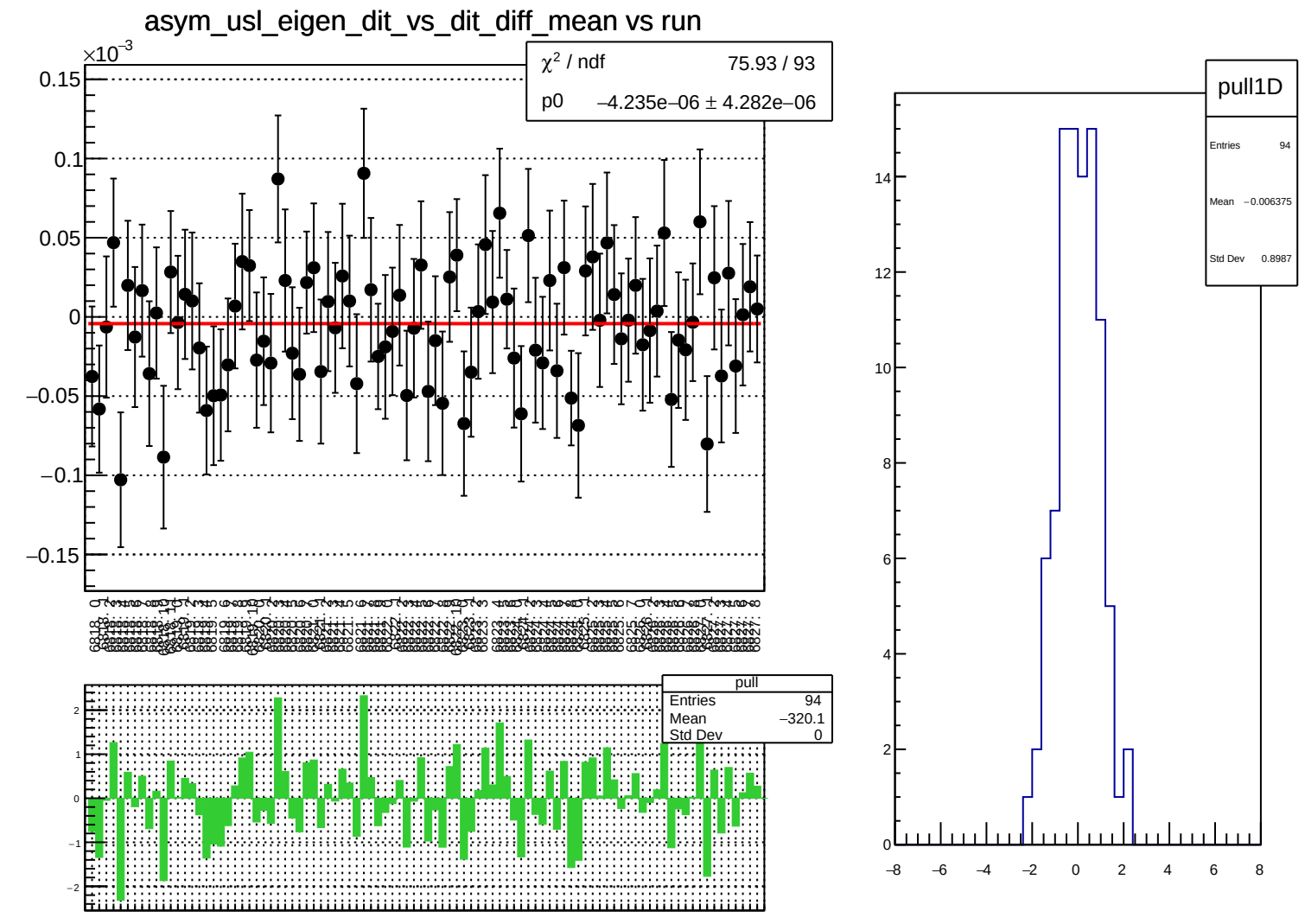

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.08e+05 / 93
p0 38.67 ± 0.02978
70
60
50
40
30
20

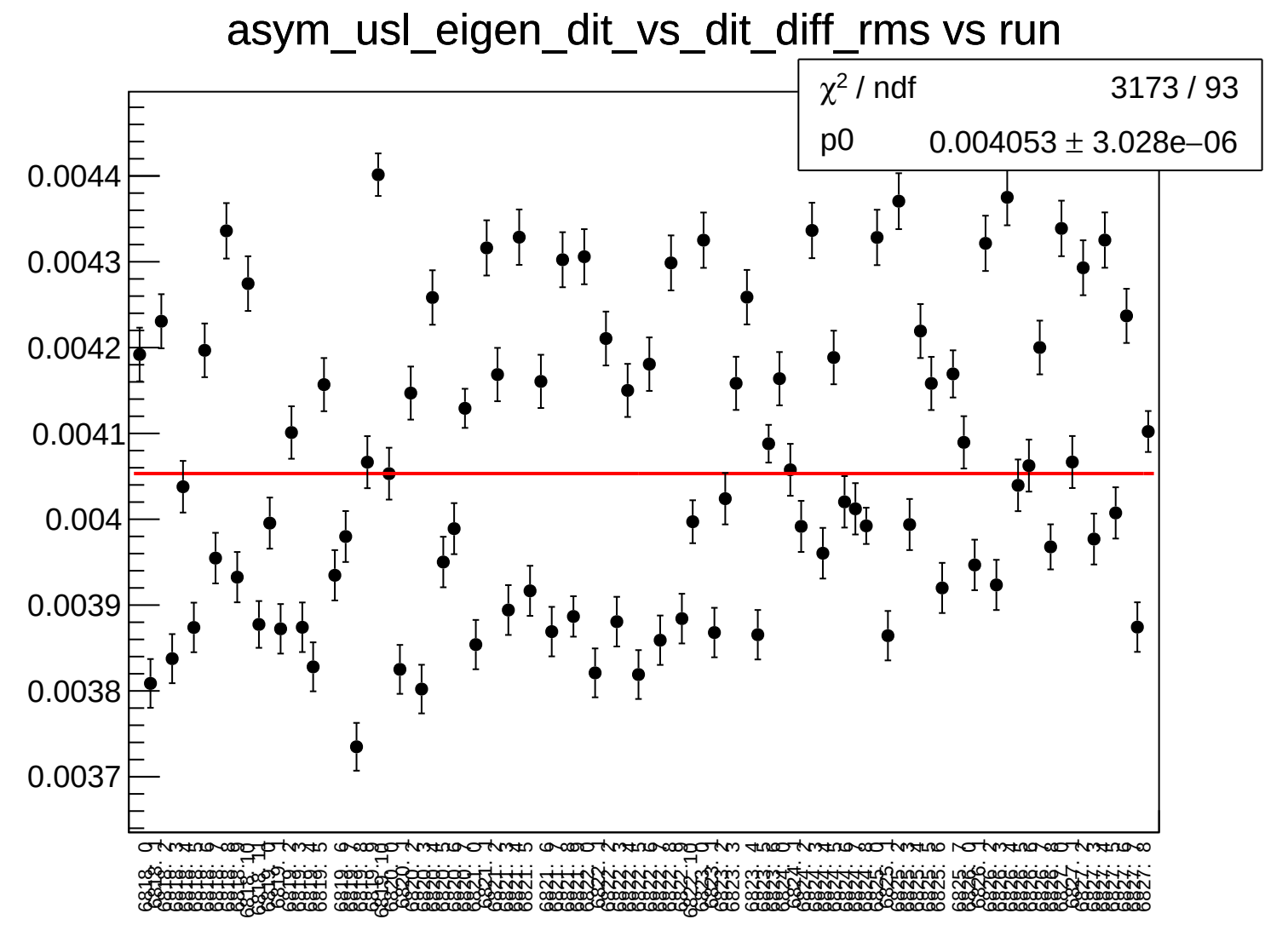

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.06568 ± 0.04211
pull
Entries 94
Mean −12.49
Std Dev 0
pull1D
Entries 94
Mean 0.01118
Std Dev 1.018

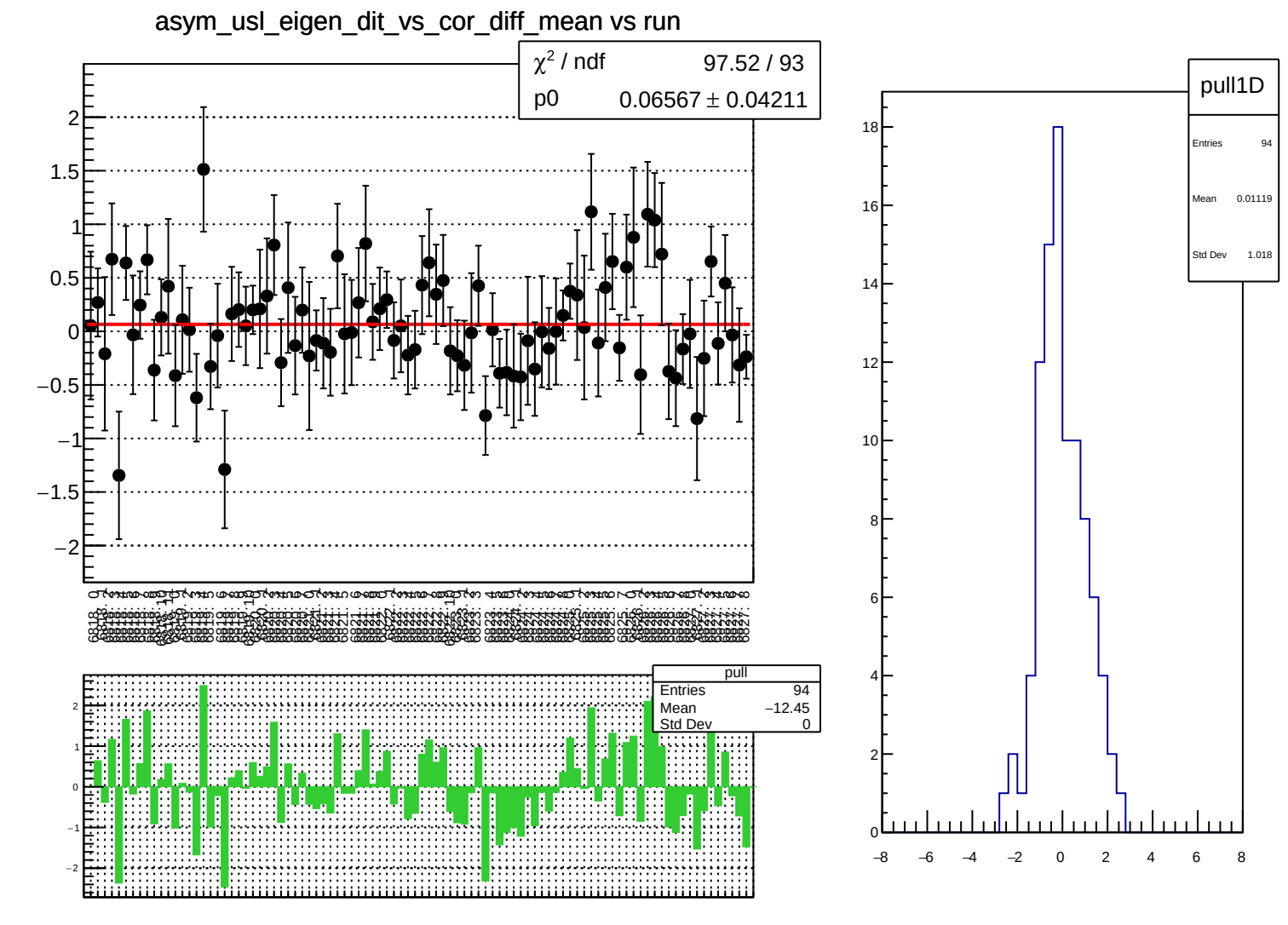

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.08e+05 / 93
p0 38.67 ± 0.02978
70
60
50
40
30
20

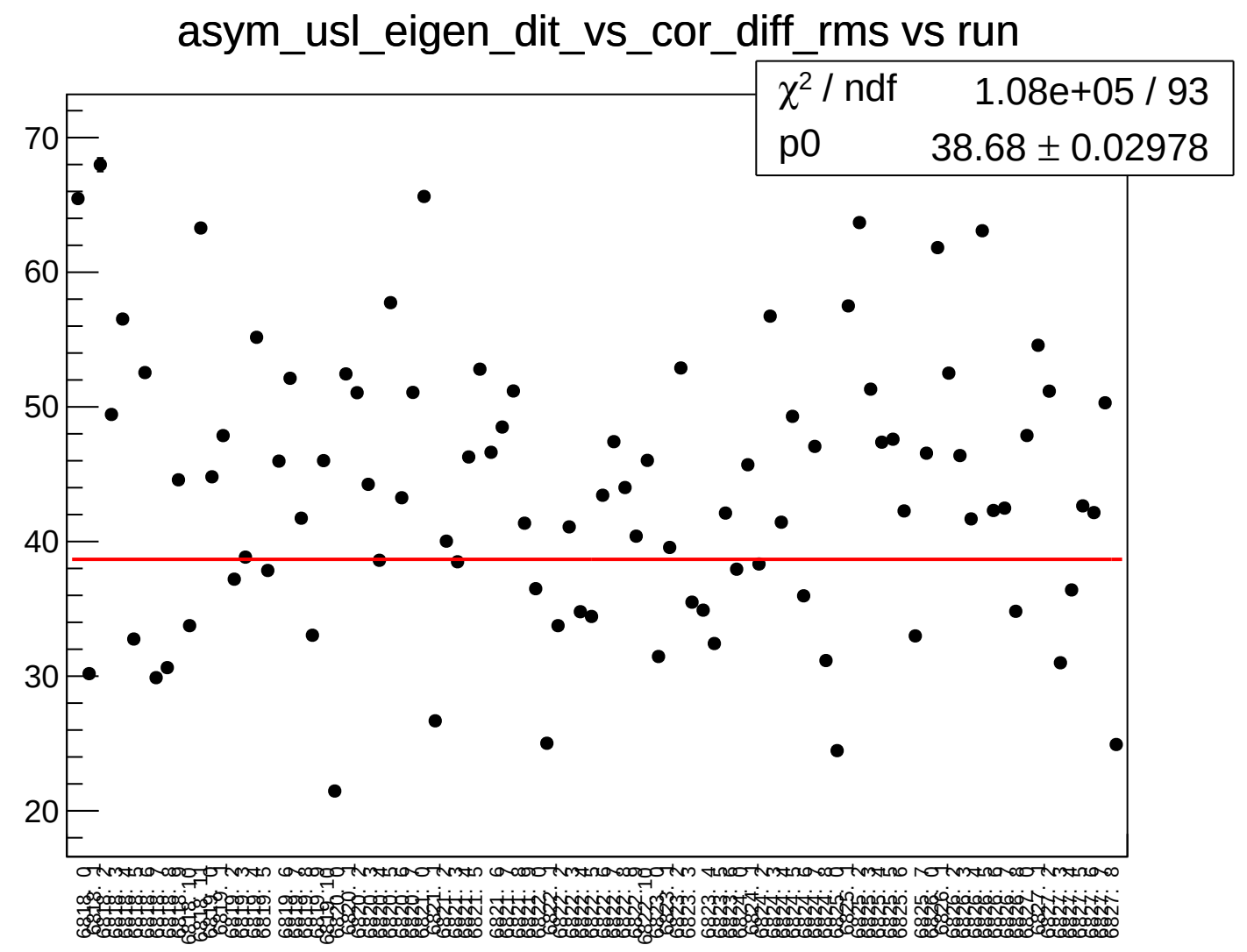

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.83 / 93
p0 −0.00494 ± 0.06282
pull
Entries 94
Mean 78.39
Std Dev 22.49
pull1D
Entries 94
Mean 0.0278
Std Dev 1.03

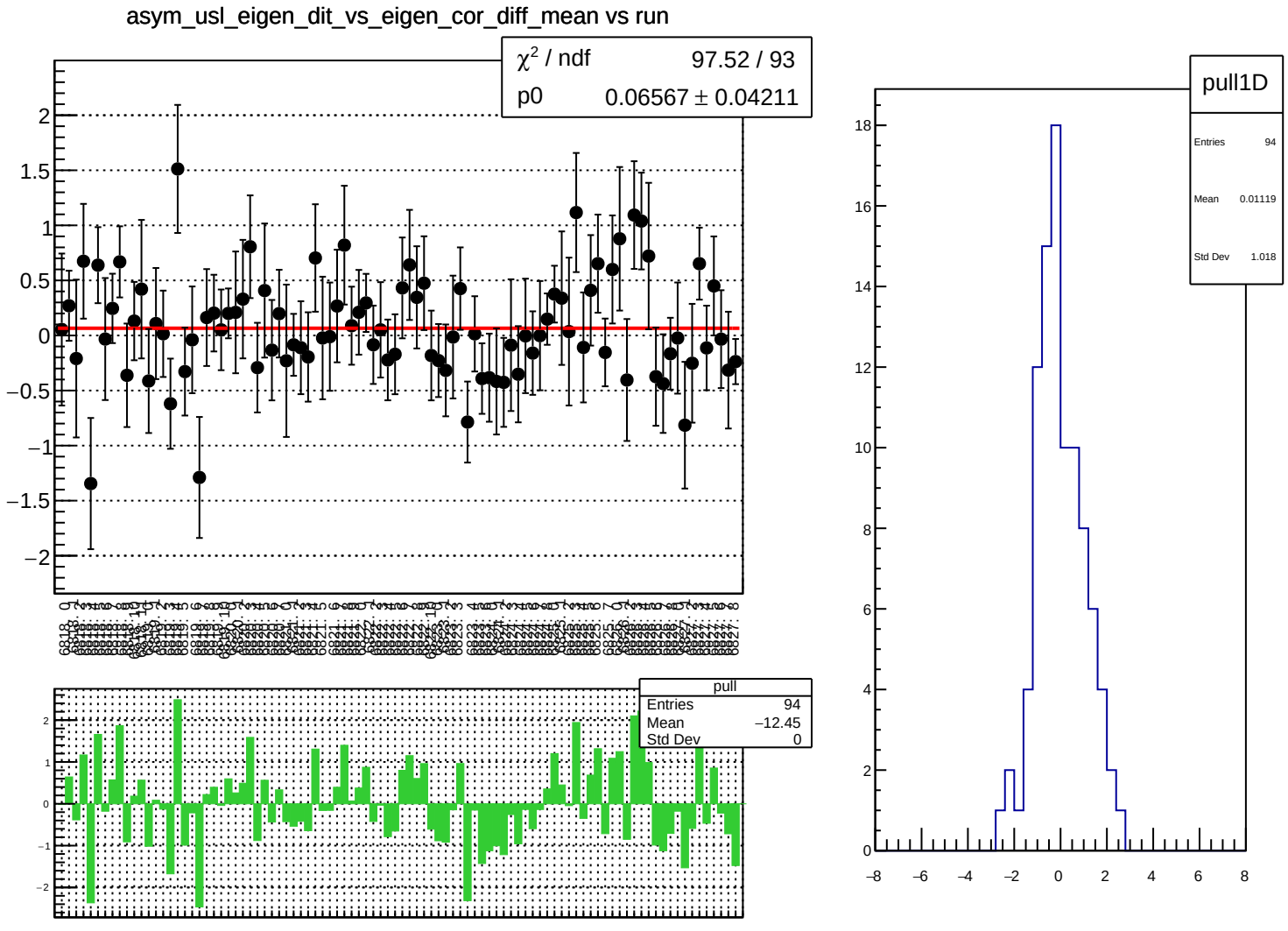

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.631e+04 / 93
p0 58.58 ± 0.04442
90
80
70
60
50
40

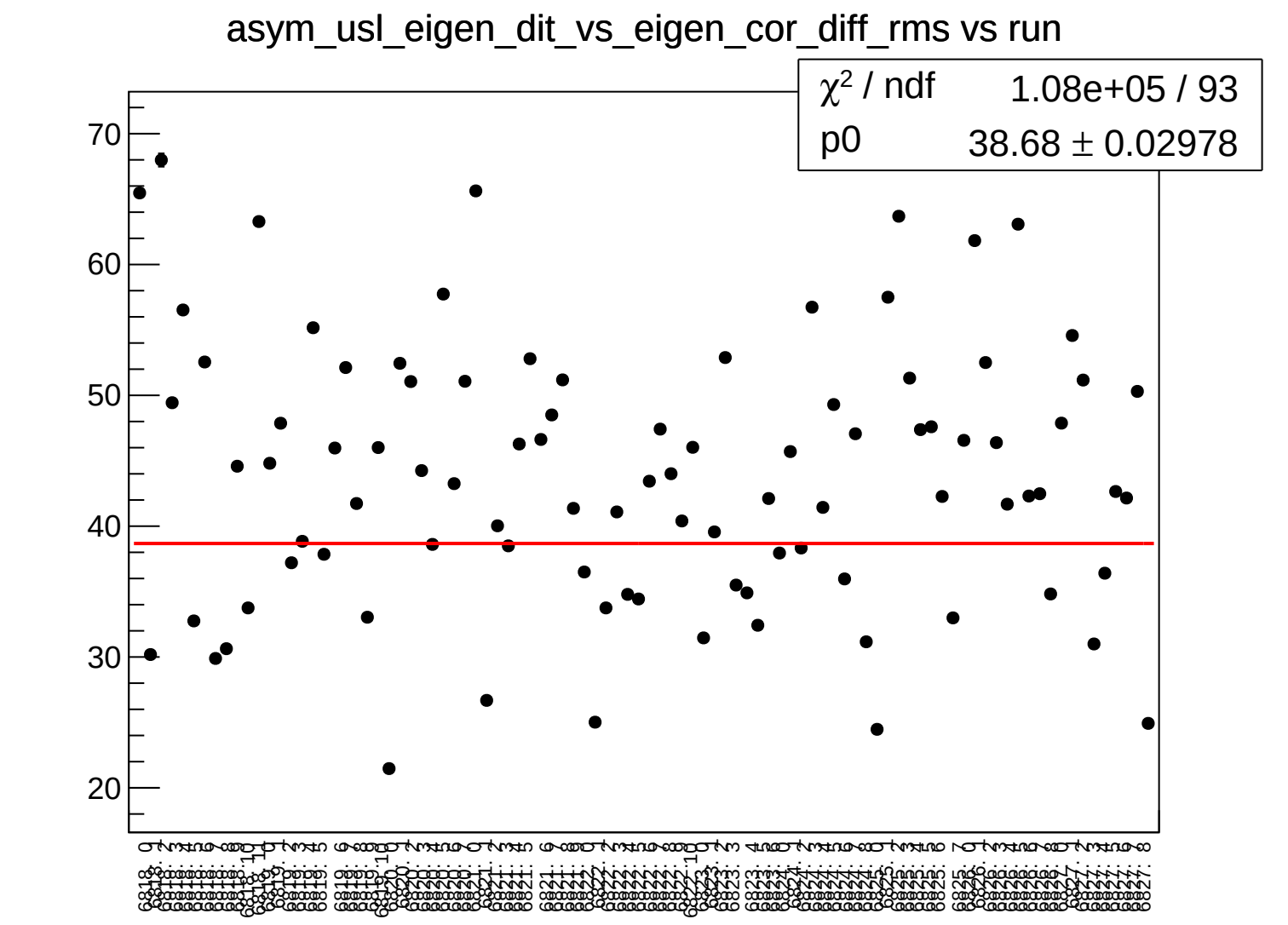

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.93 / 93
p0 −4.235e−06 ± 4.282e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −320.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006375
Std Dev 0.8987
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

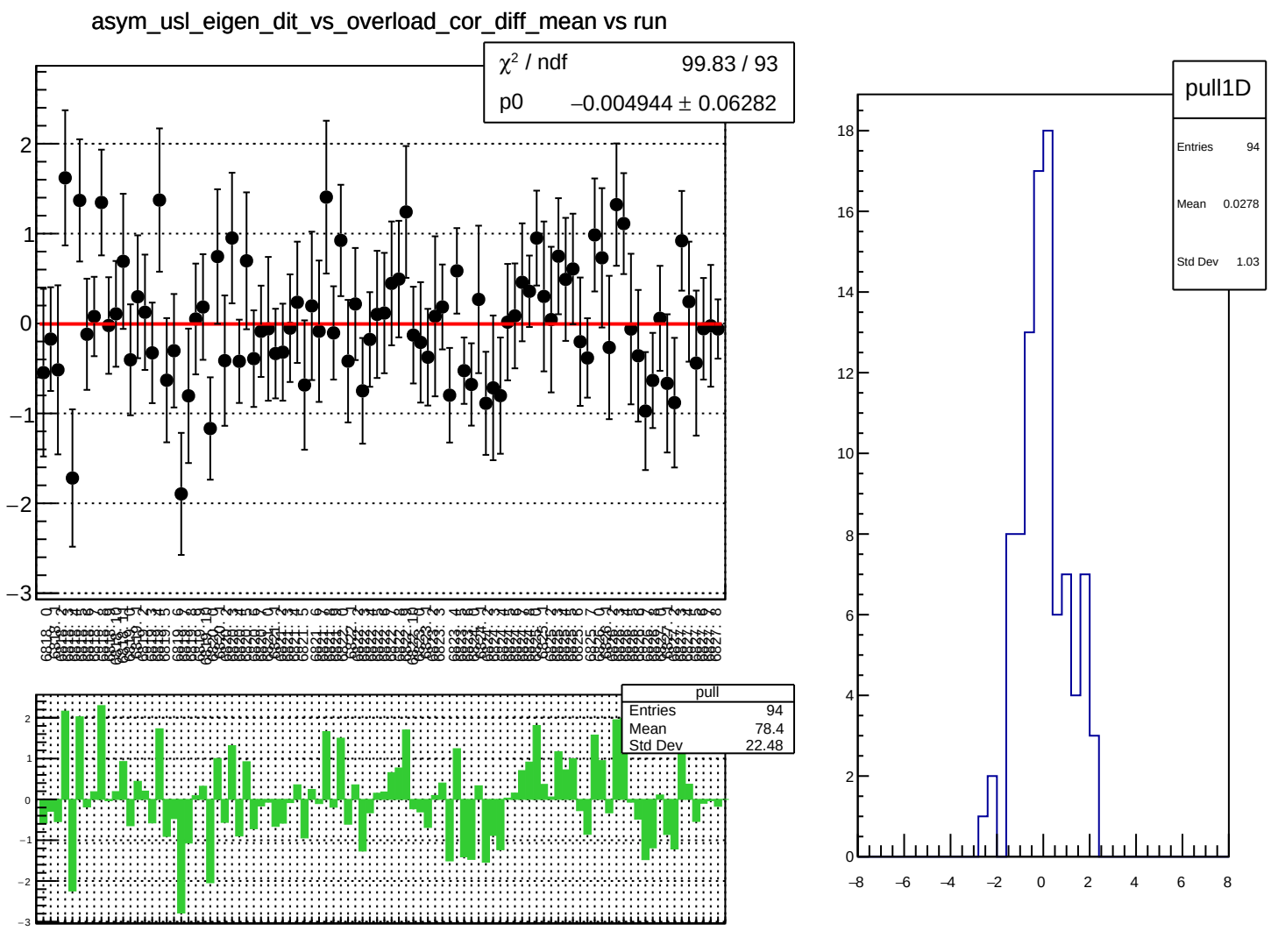

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3173 / 93
p0 0.004053 ± 3.028e−06
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
0.0037

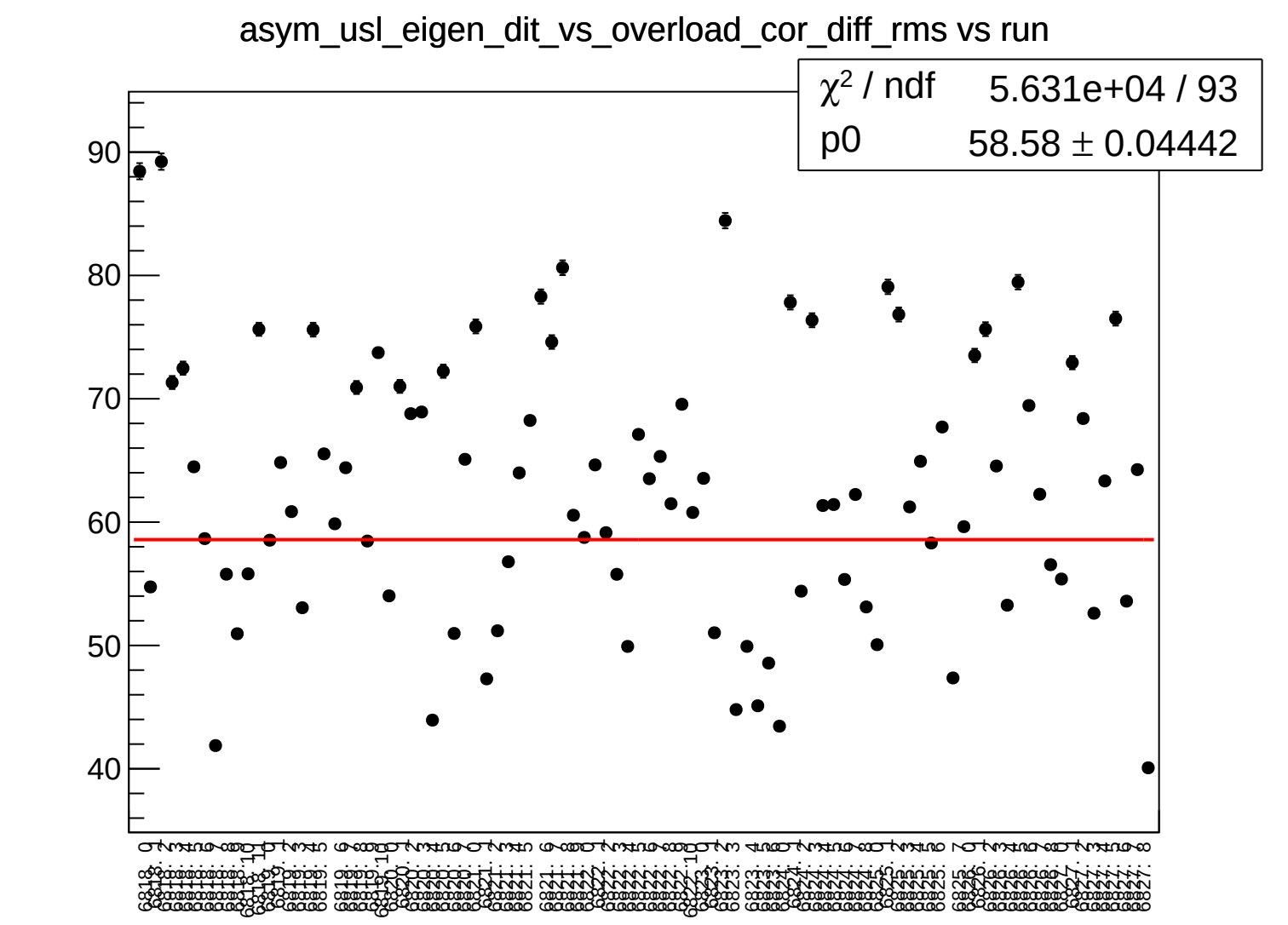

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.06567 ± 0.04211
pull
Entries 94
Mean −12.45
Std Dev 0
pull1D
Entries 94
Mean 0.01119
Std Dev 1.018

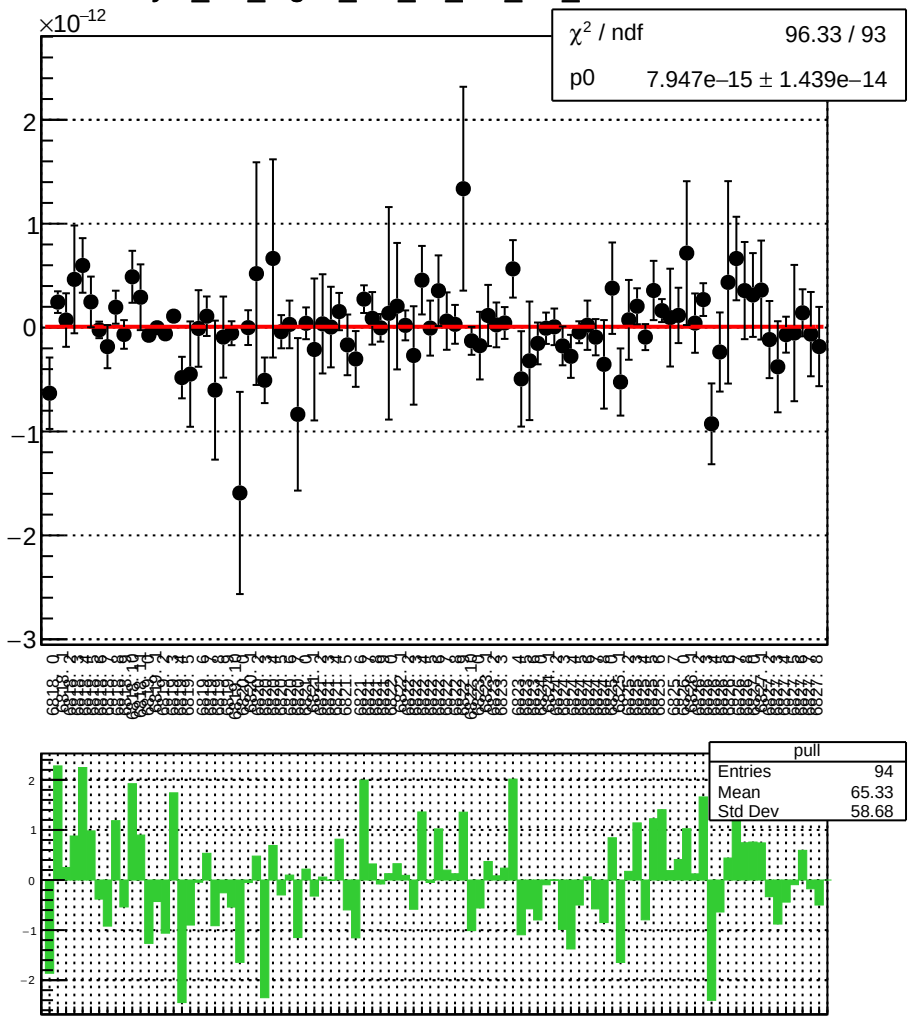

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.08e+05 / 93
p0 38.68 ± 0.02978
70
60
50
40
30
20

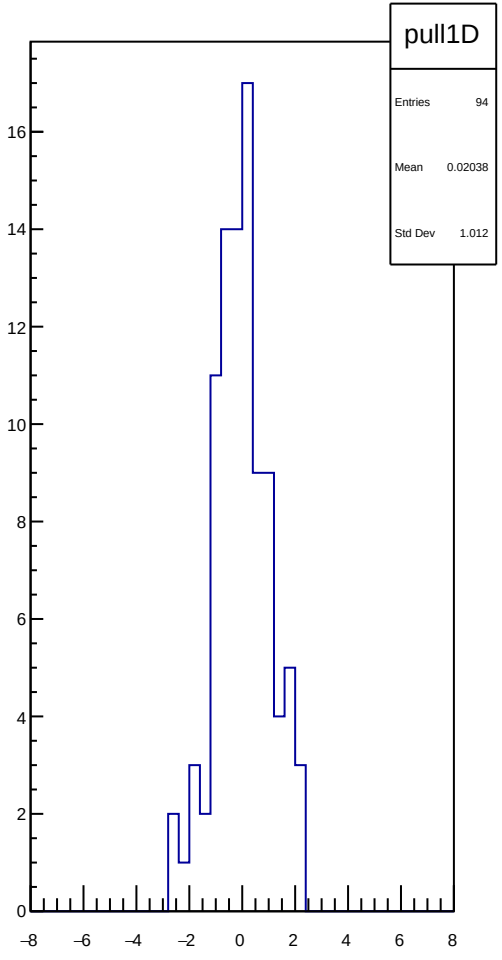

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.52 / 93
p0 0.06567 ± 0.04211
pull
Entries 94
Mean −12.45
Std Dev 0
pull1D
Entries 94
Mean 0.01119
Std Dev 1.018

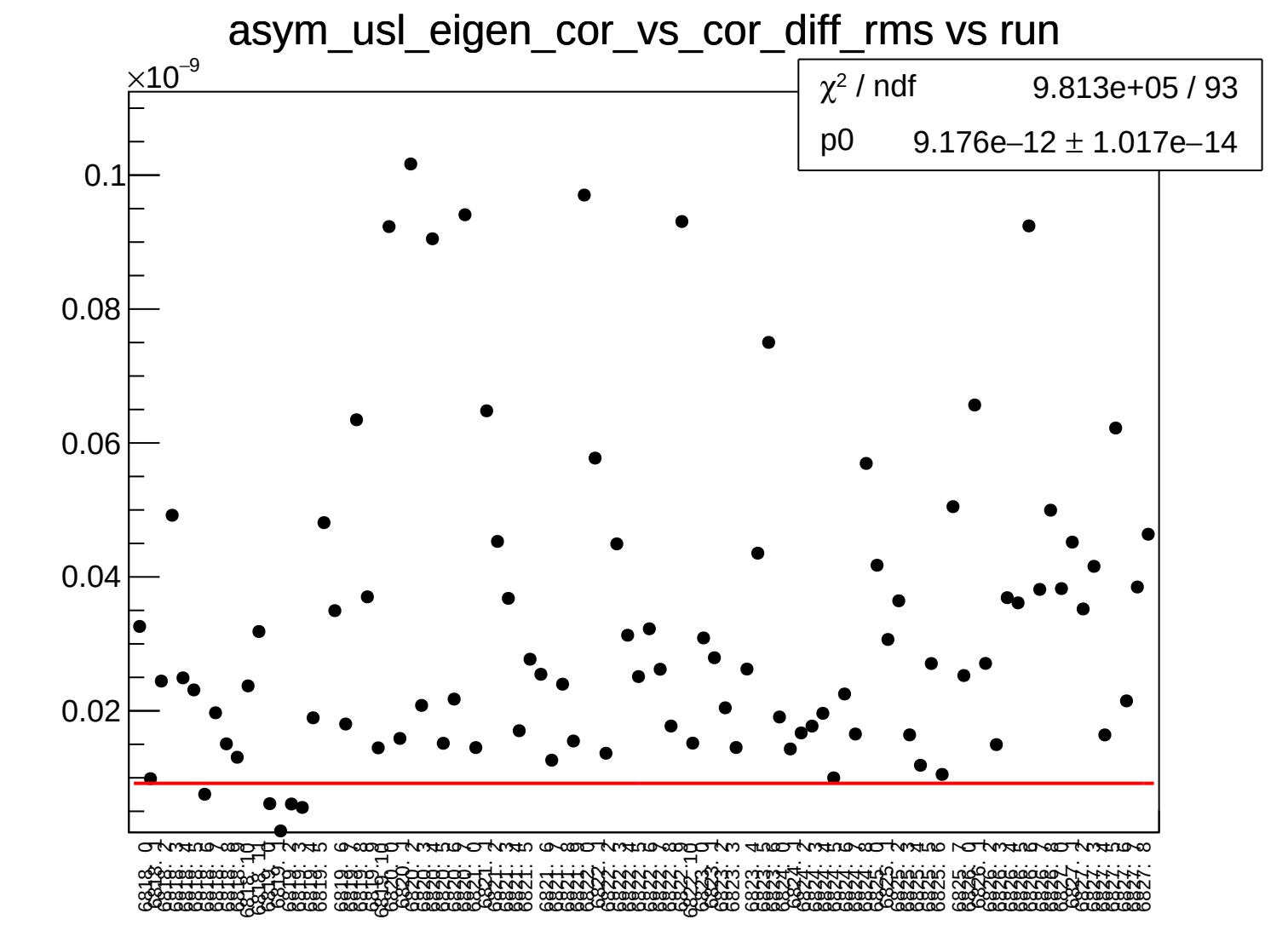

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.08e+05 / 93
p0 38.68 ± 0.02978
70
60
50
40
30
20

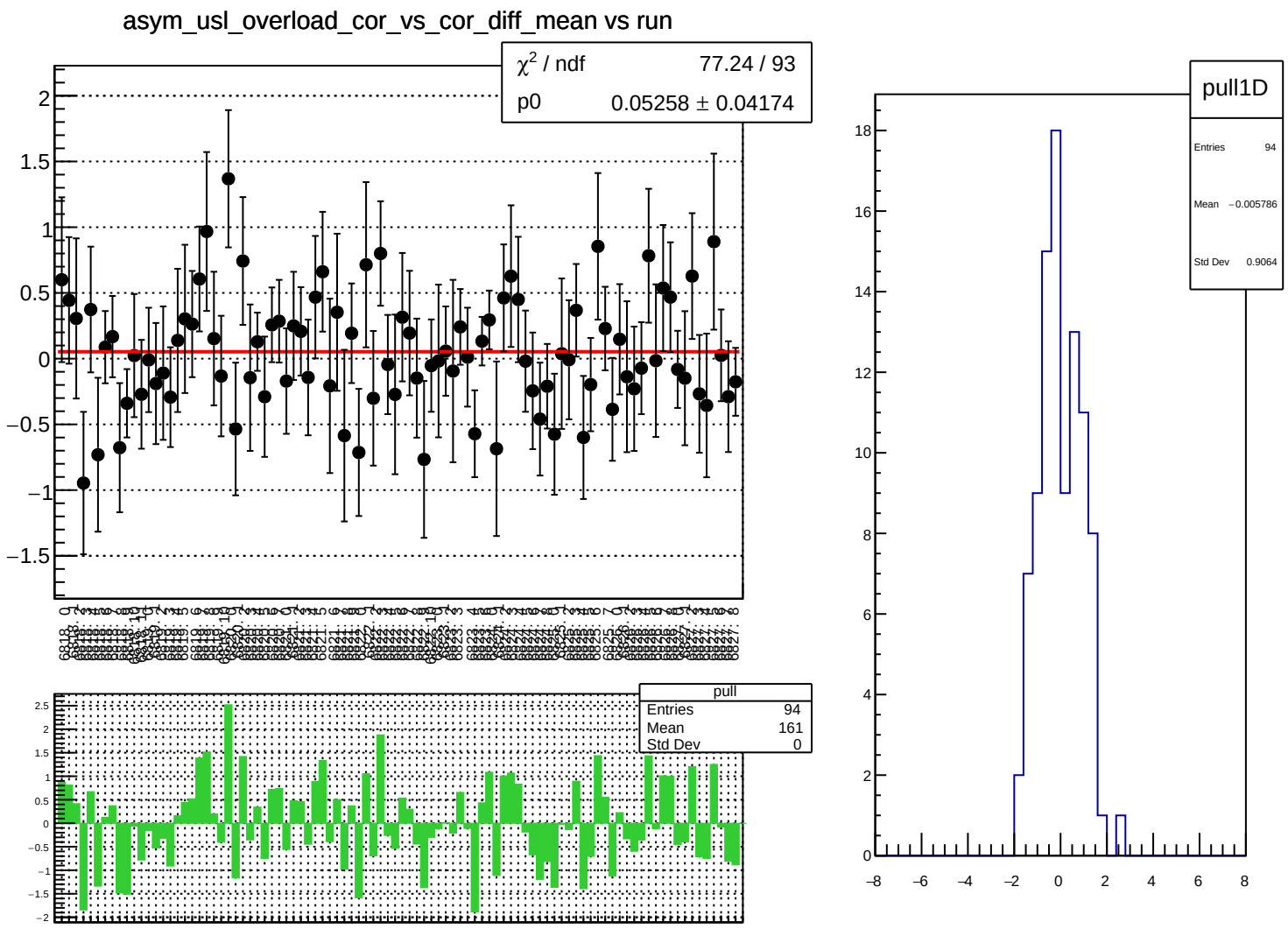

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 99.83 / 93
p0 −0.004944 ± 0.06282
pull
Entries 94
Mean 78.4
Std Dev 22.48
pull1D
Entries 94
Mean 0.0278
Std Dev 1.03

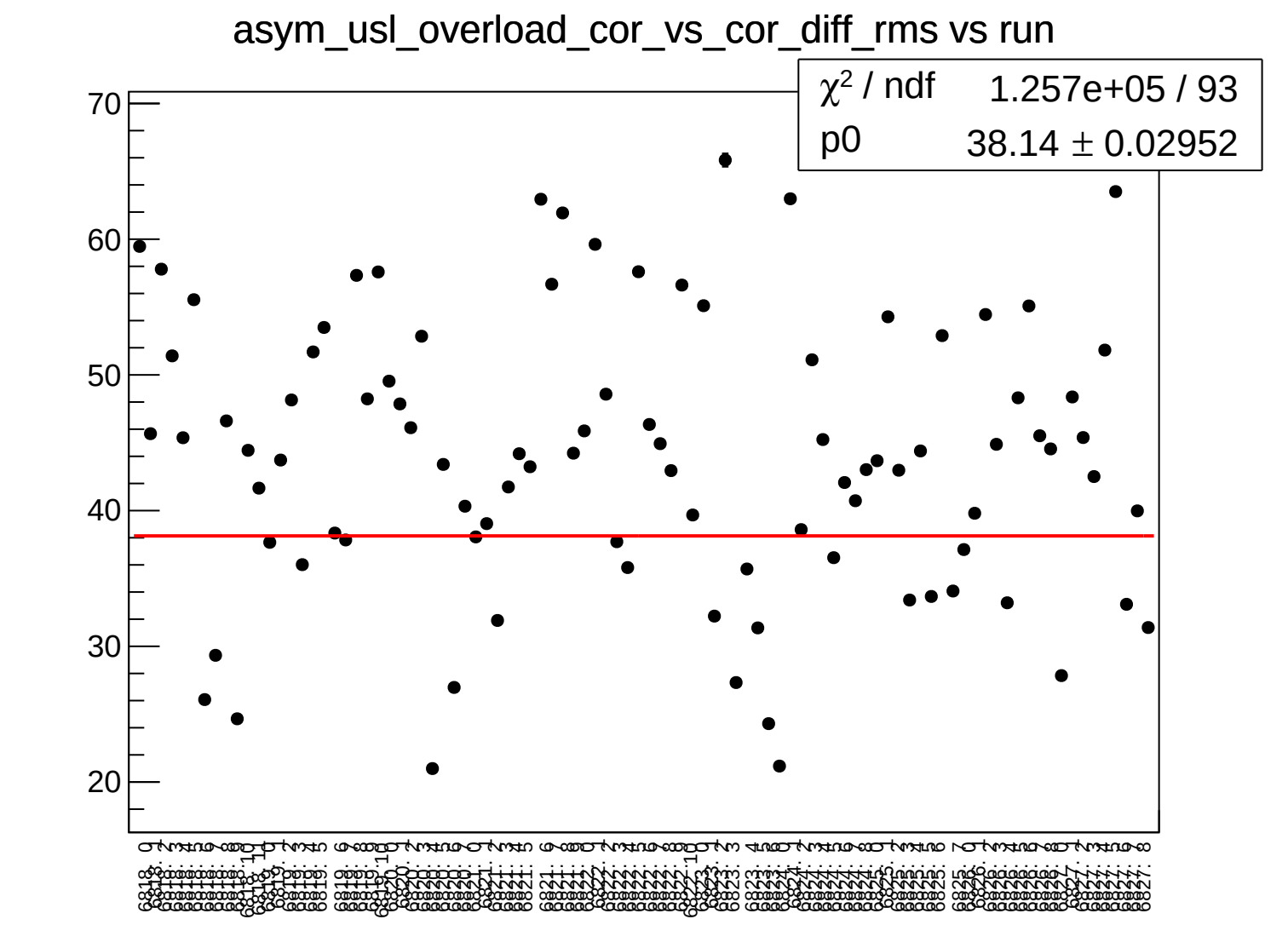

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.631e+04 / 93
p0 58.58 ± 0.04442
90
80
70
60
50
40

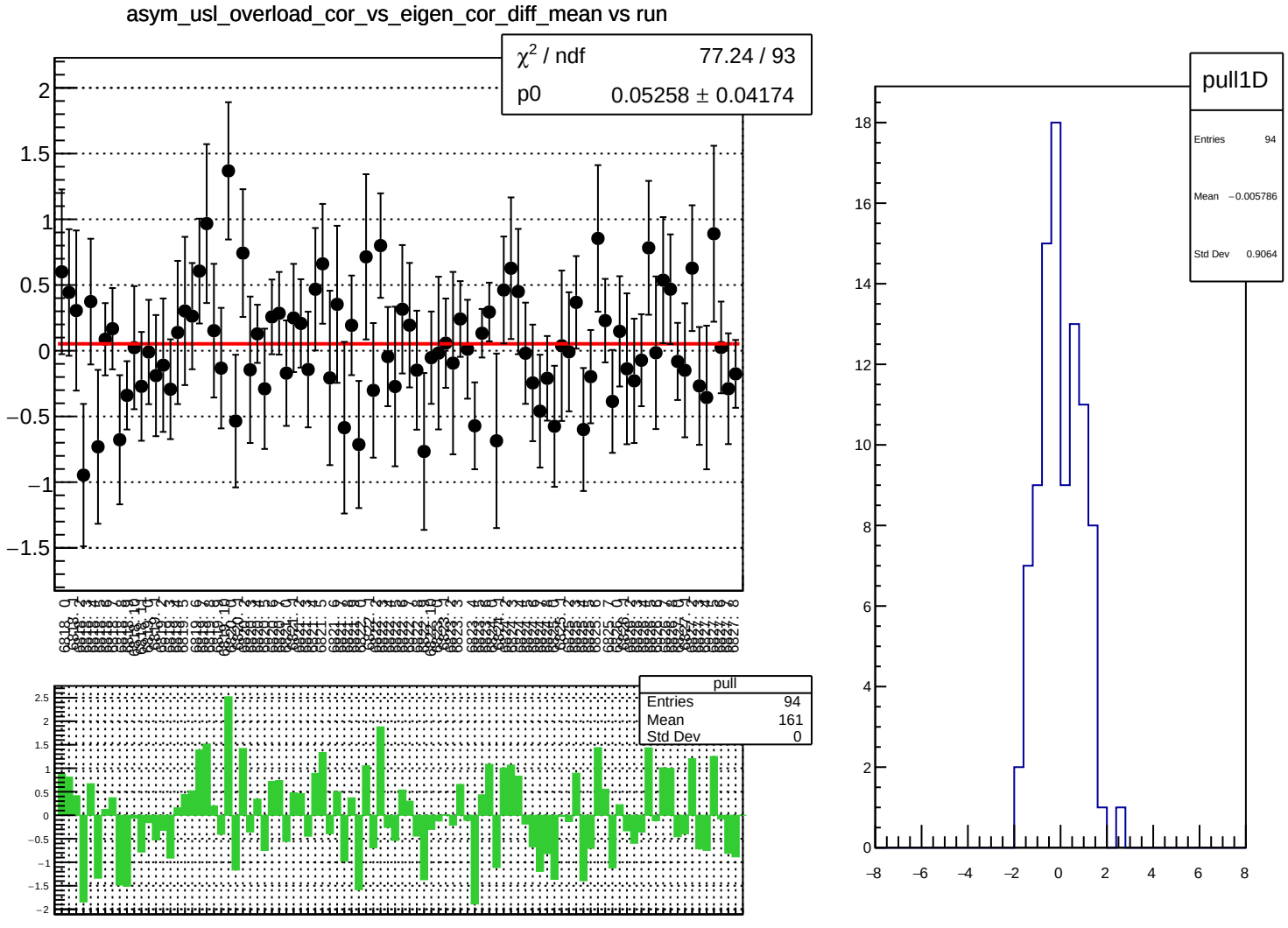

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.33 / 93
p0 7.947e−15 ± 1.439e−14
pull
Entries 94
Mean 65.33
Std Dev 58.68

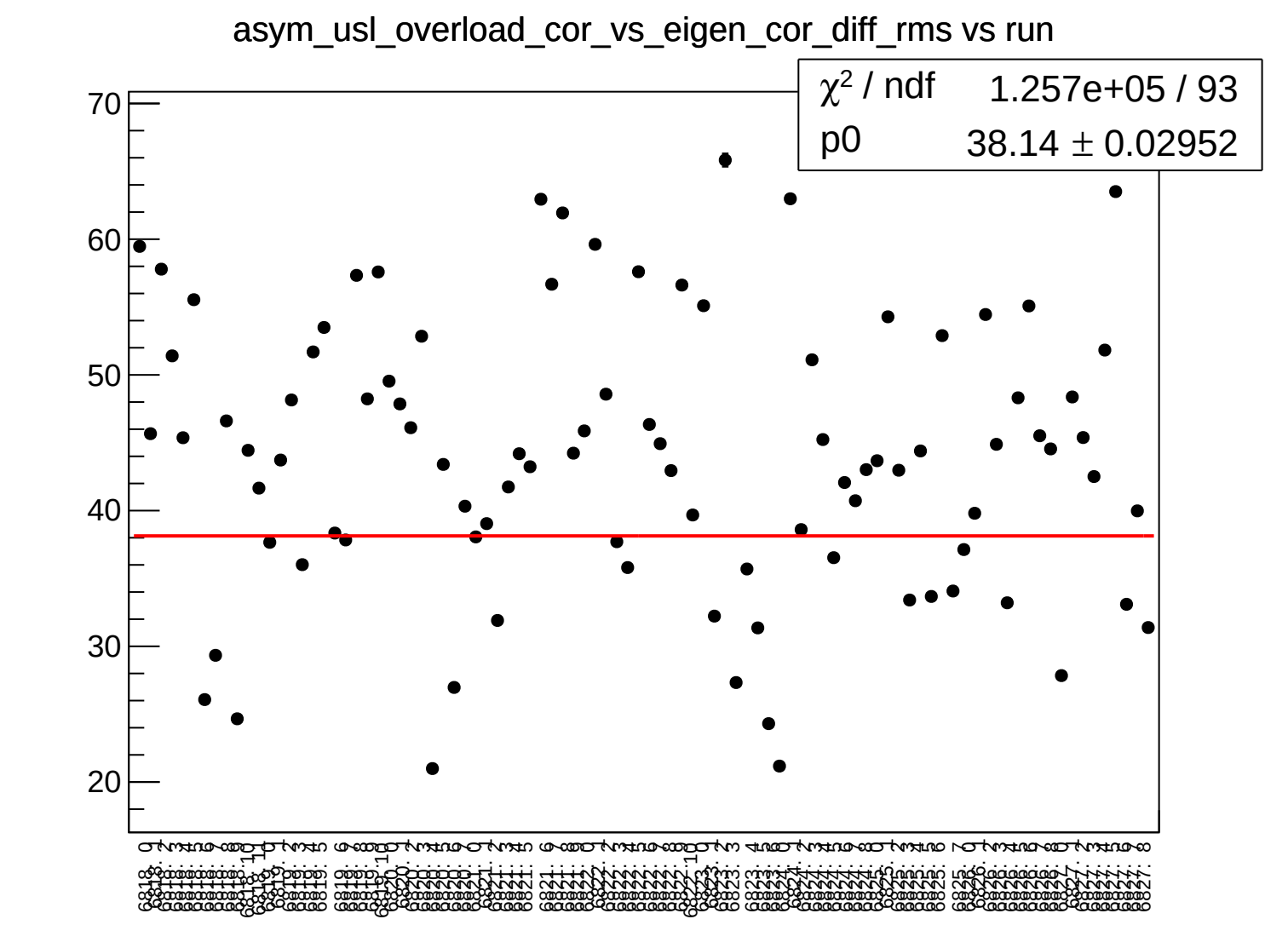

pull1D
Entries 94
Mean 0.02038
Std Dev 1.012

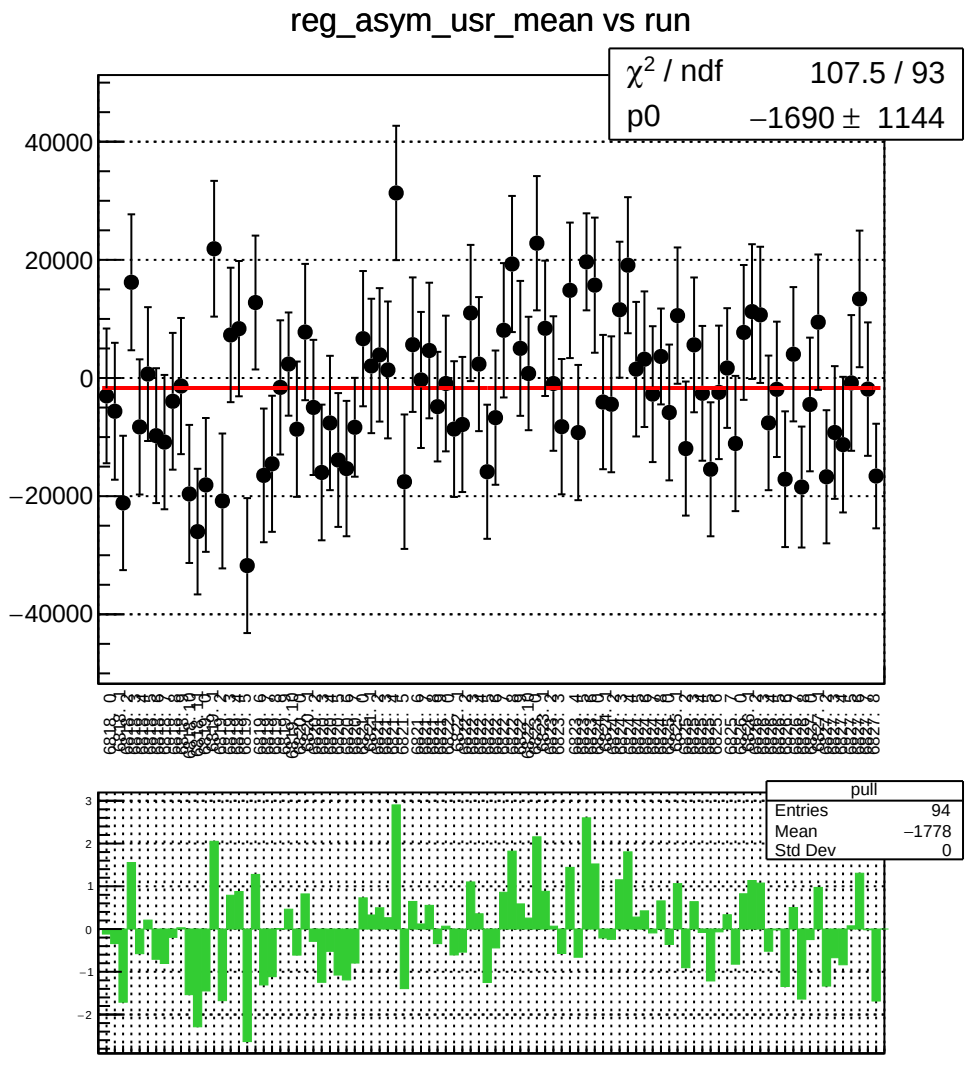

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.813e+05 / 93
p0 9.176e−12 ± 1.017e−14
0.1
0.08
0.06
0.04
0.02

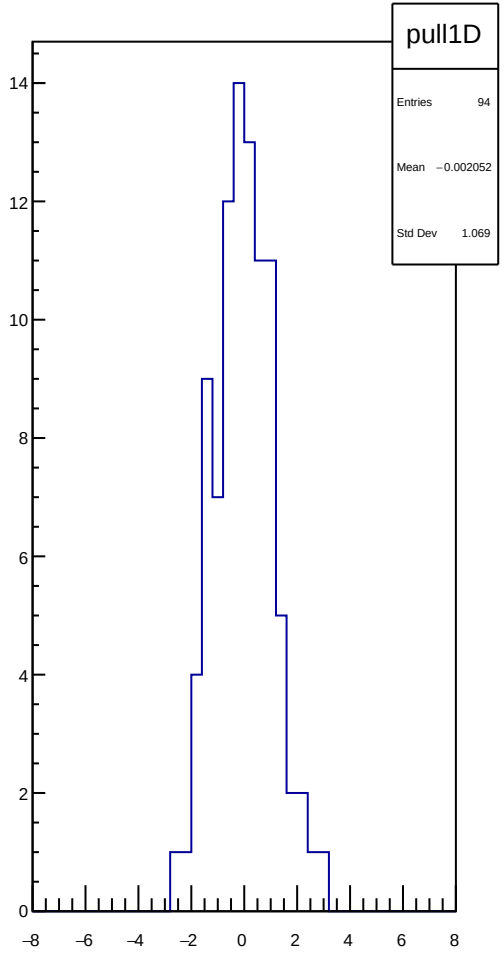

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 77.24 / 93
p0 0.05258 ± 0.04174
pull
Entries 94
Mean 161
Std Dev 0
pull1D
Entries 94
Mean −0.005786
Std Dev 0.9064

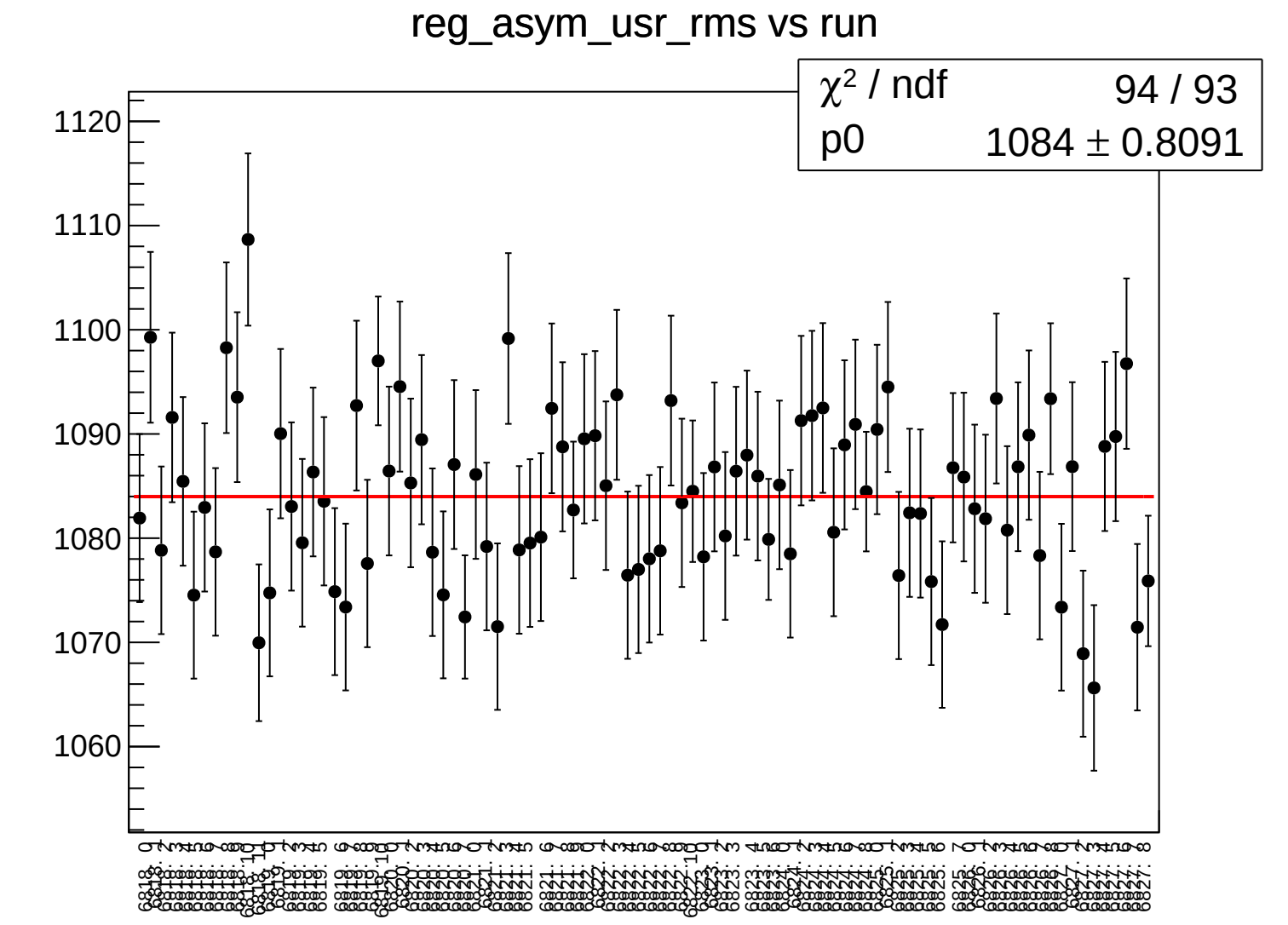

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 93
p0 38.14 ± 0.02952
70
60
50
40
30
20

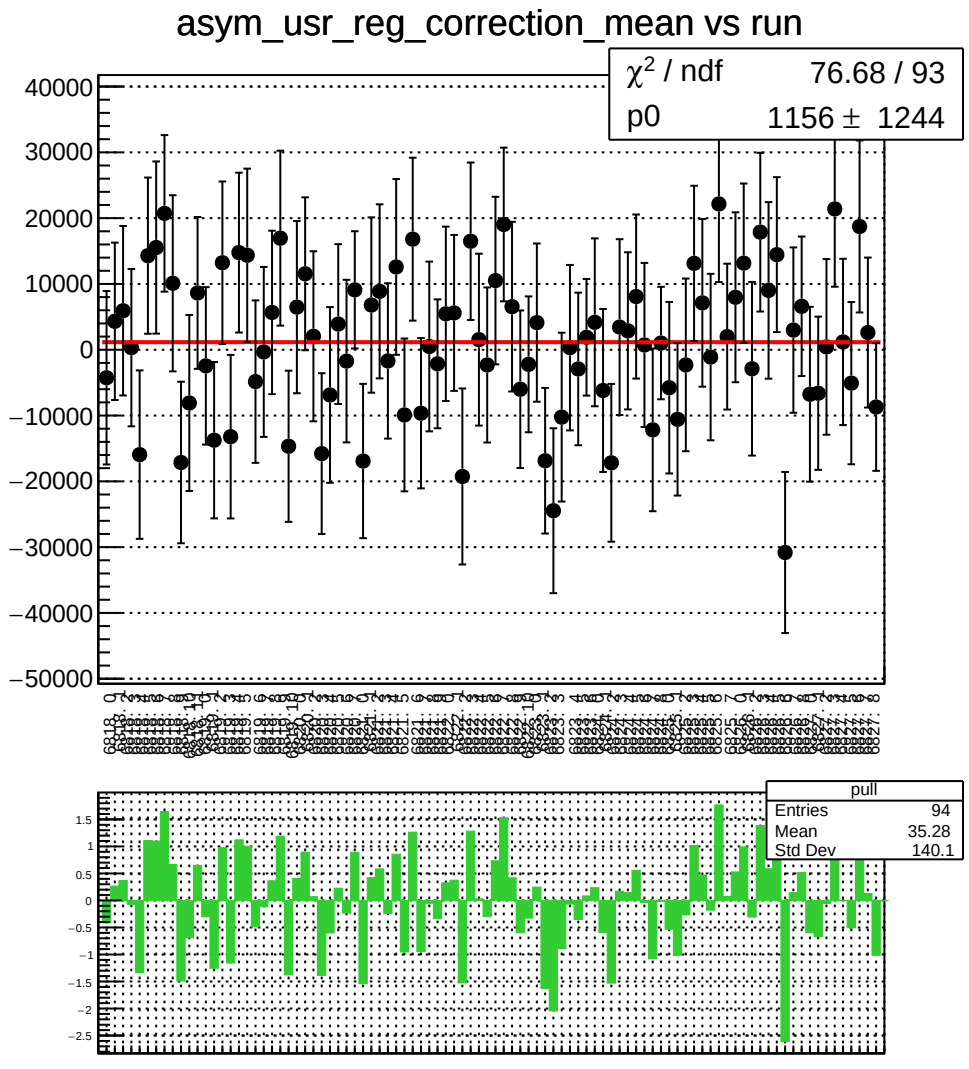

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.24 / 93
p0 0.05258 ± 0.04174
pull
Entries 94
Mean 161
Std Dev 0
pull1D
Entries 94
Mean −0.005786
Std Dev 0.9064

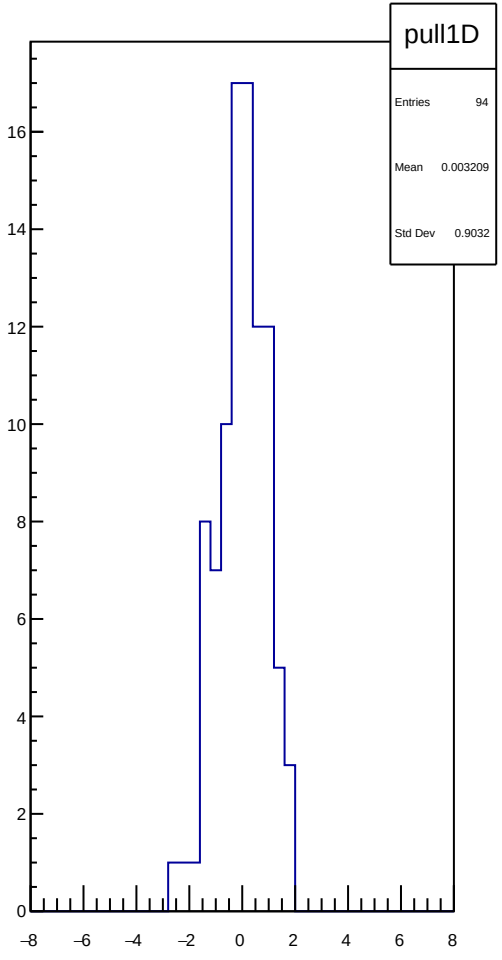

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.257e+05 / 93
p0 38.14 ± 0.02952
70
60
50
40
30
20

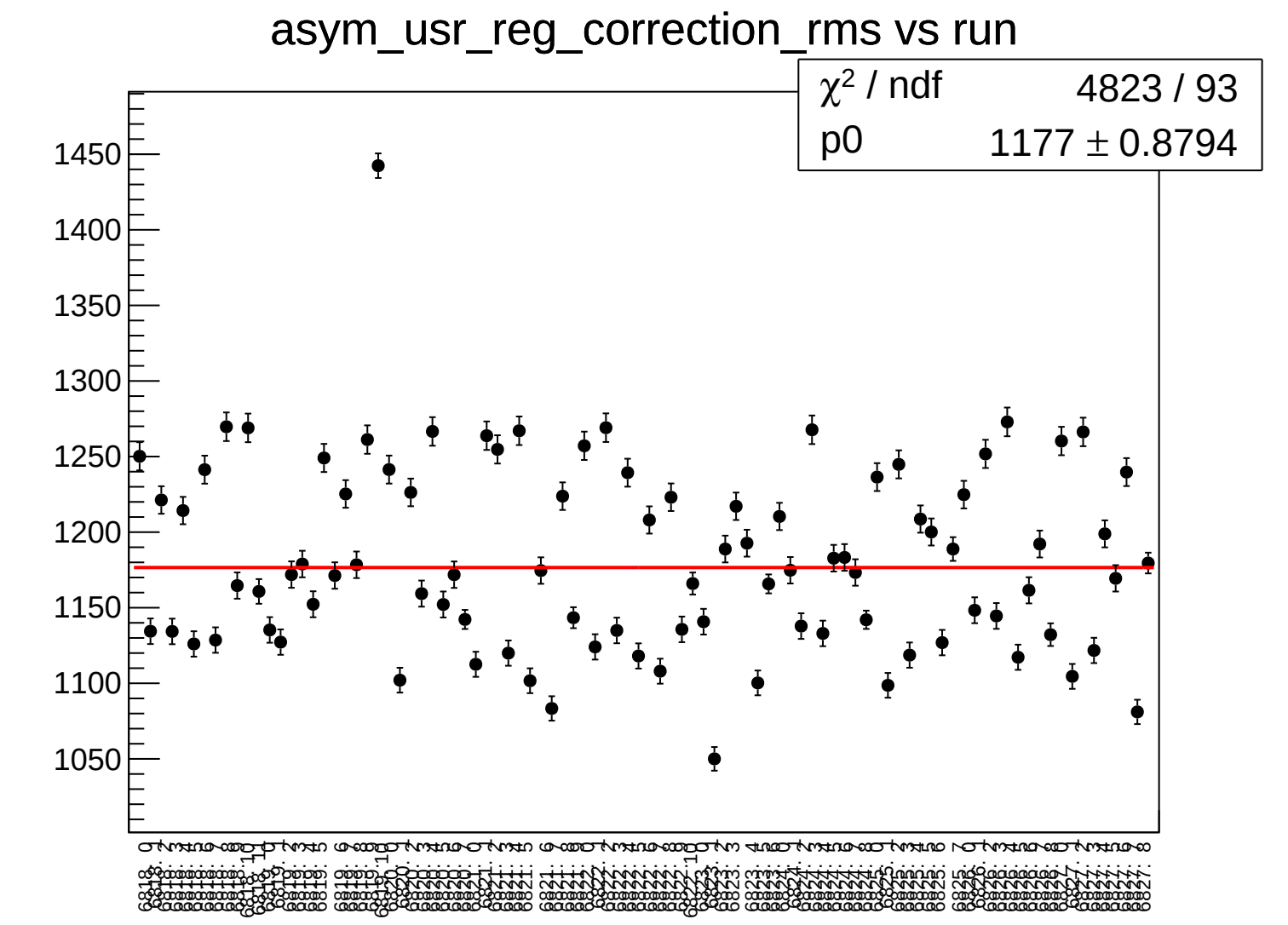

reg_asym_usr_mean vs run
χ² / ndf 107.5 / 93
p0 −1690 ± 1144
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1778
Std Dev 0
3
2
1
0
−1
−2

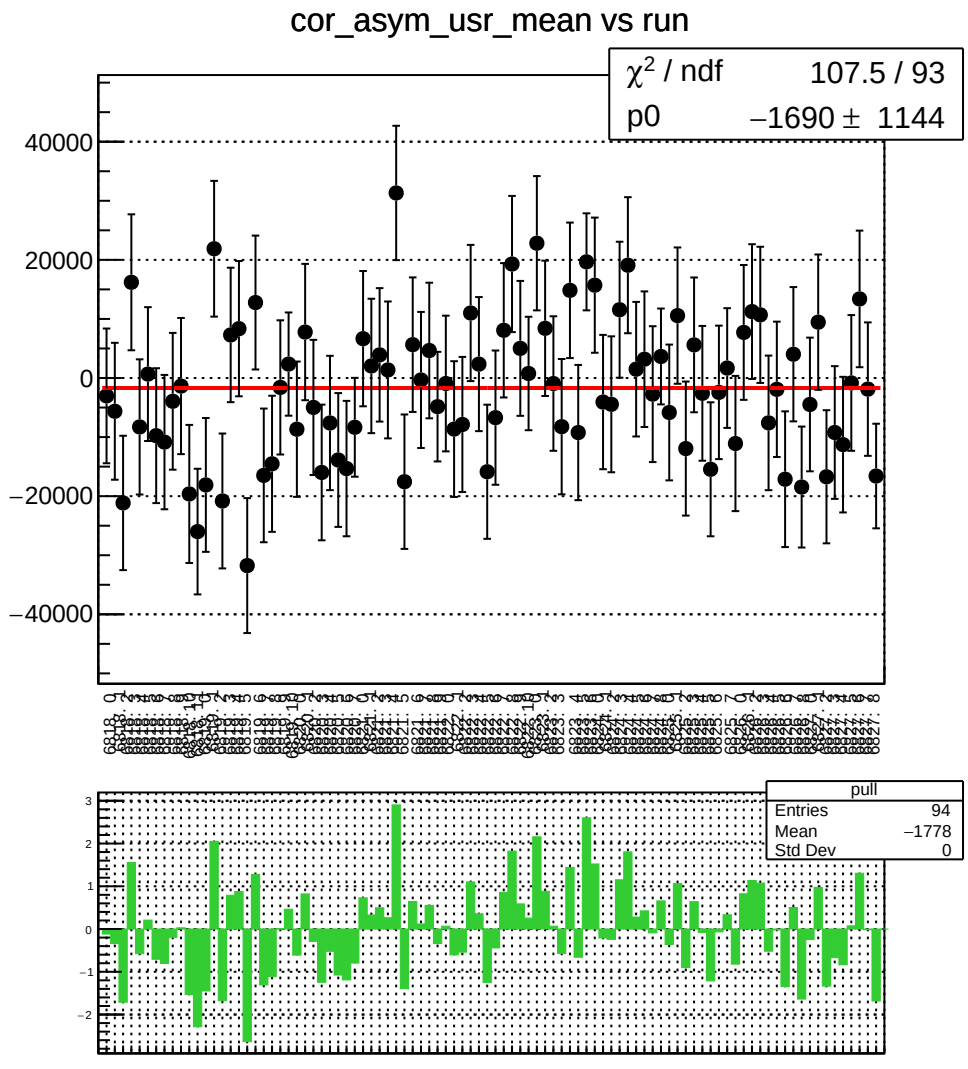

pull1D
Entries 94
Mean −0.002052
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

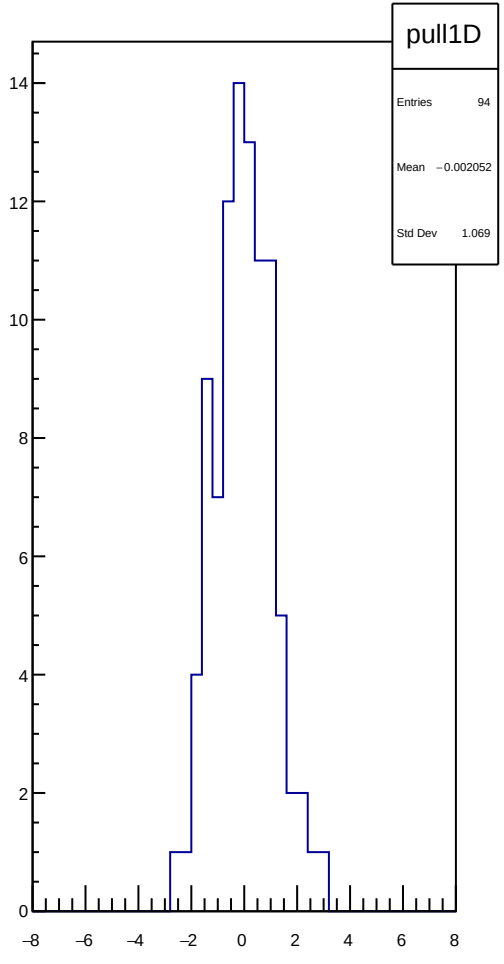

reg_asym_usr_rms vs run
χ² / ndf 94 / 93
p0 1084 ± 0.8091
1120
1110
1100
1090
1080
1070
1060

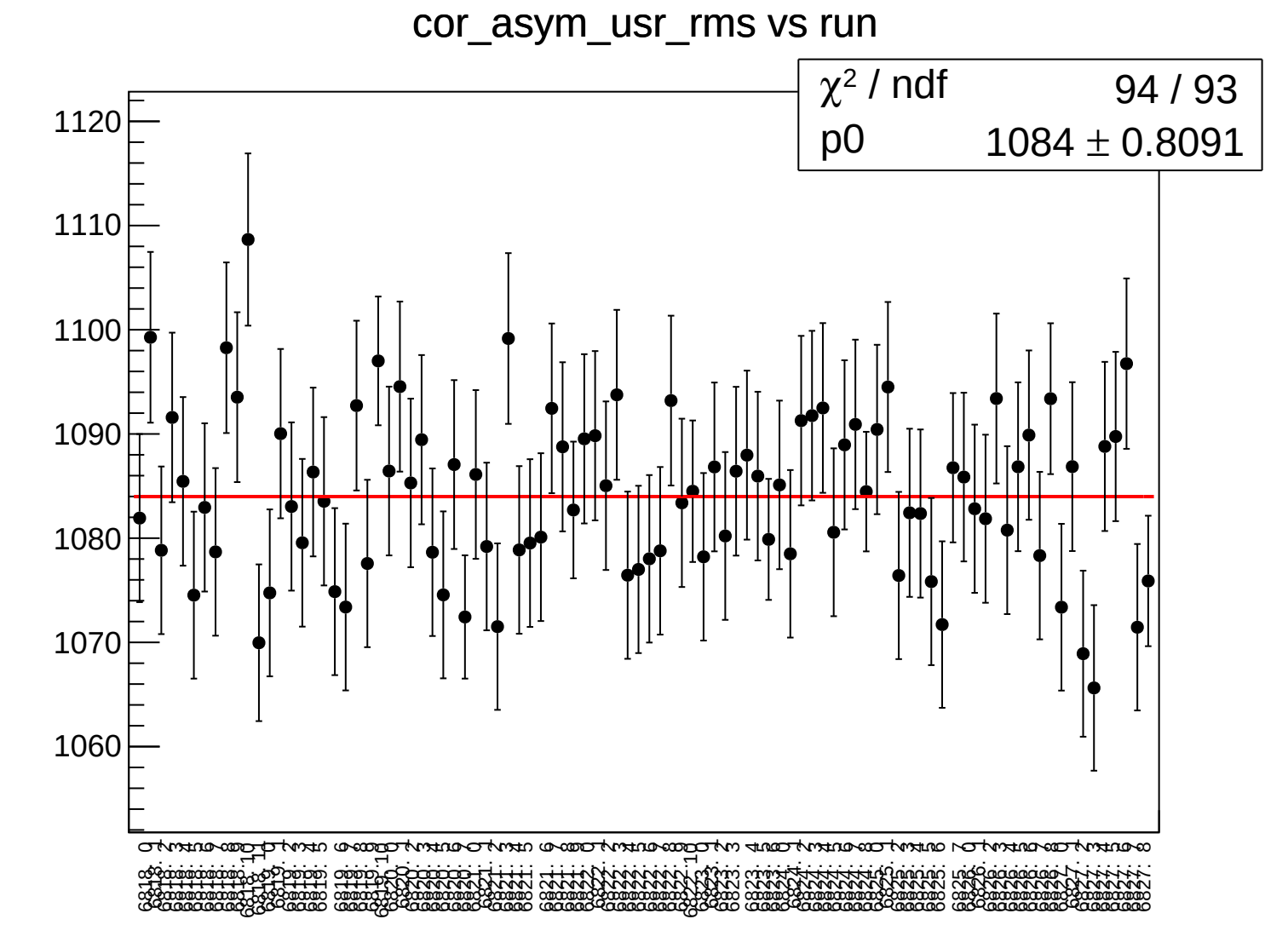

asym_usr_reg_correction_mean vs run
χ² / ndf 76.68 / 93
p0 1156 ± 1244
pull
Entries 94
Mean 35.28
Std Dev 140.1

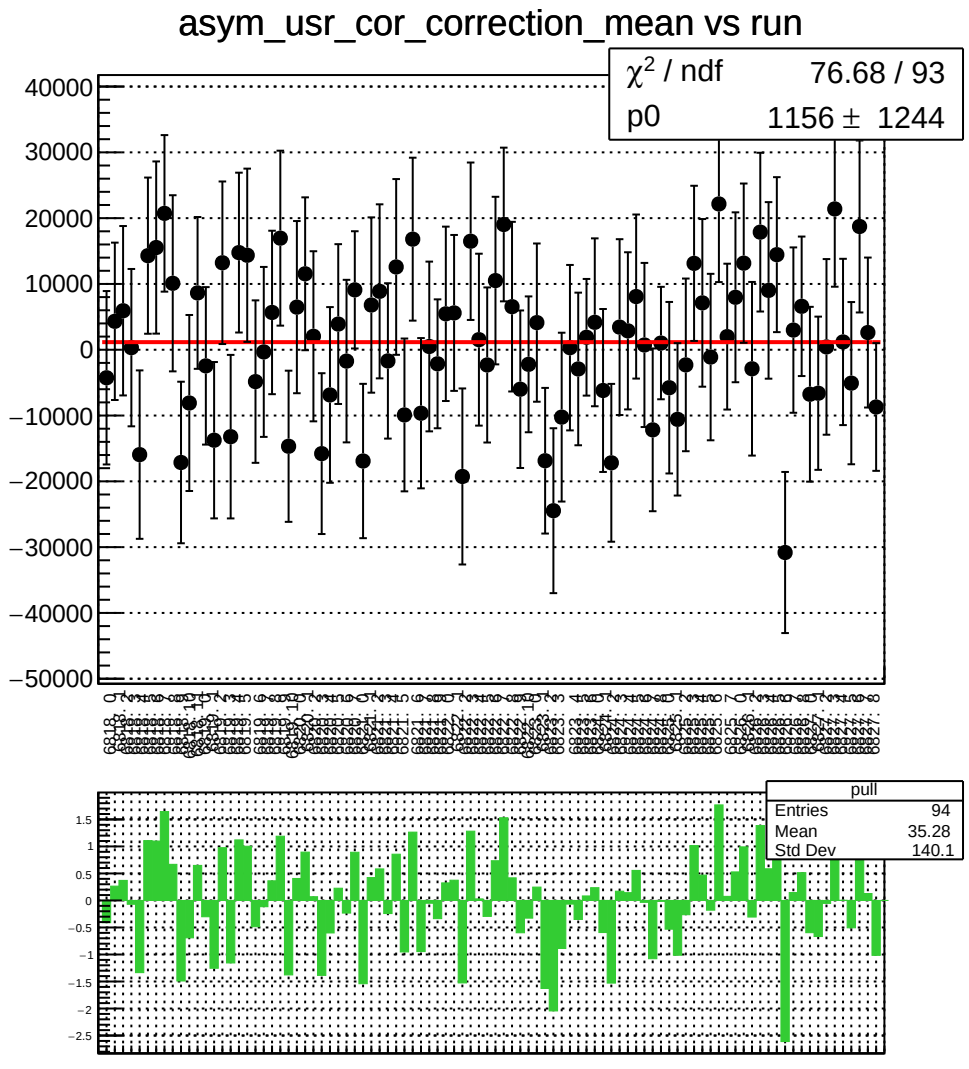

pull1D
Entries 94
Mean 0.003209
Std Dev 0.9032

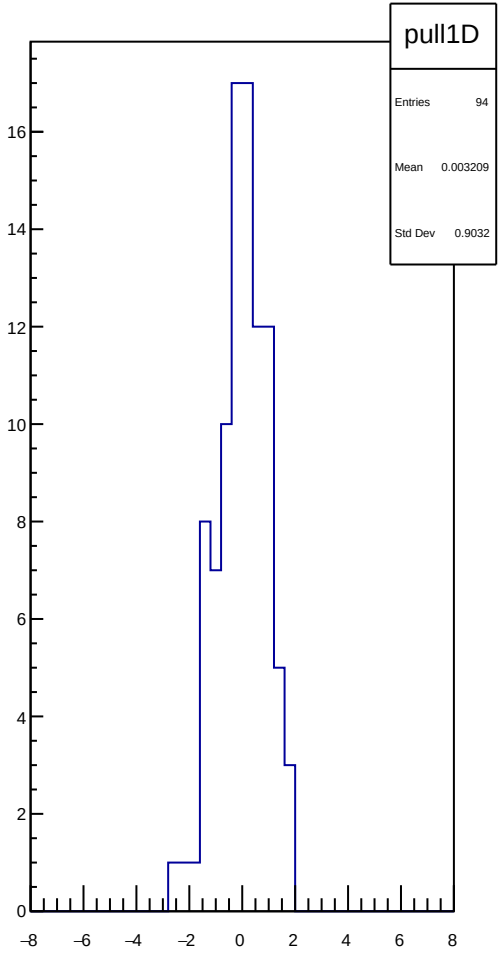

asym_usr_reg_correction_rms vs run
χ² / ndf 4823 / 93
p0 1177 ± 0.8794
1450
1400
1350
1300
1250
1200
1150
1100
1050

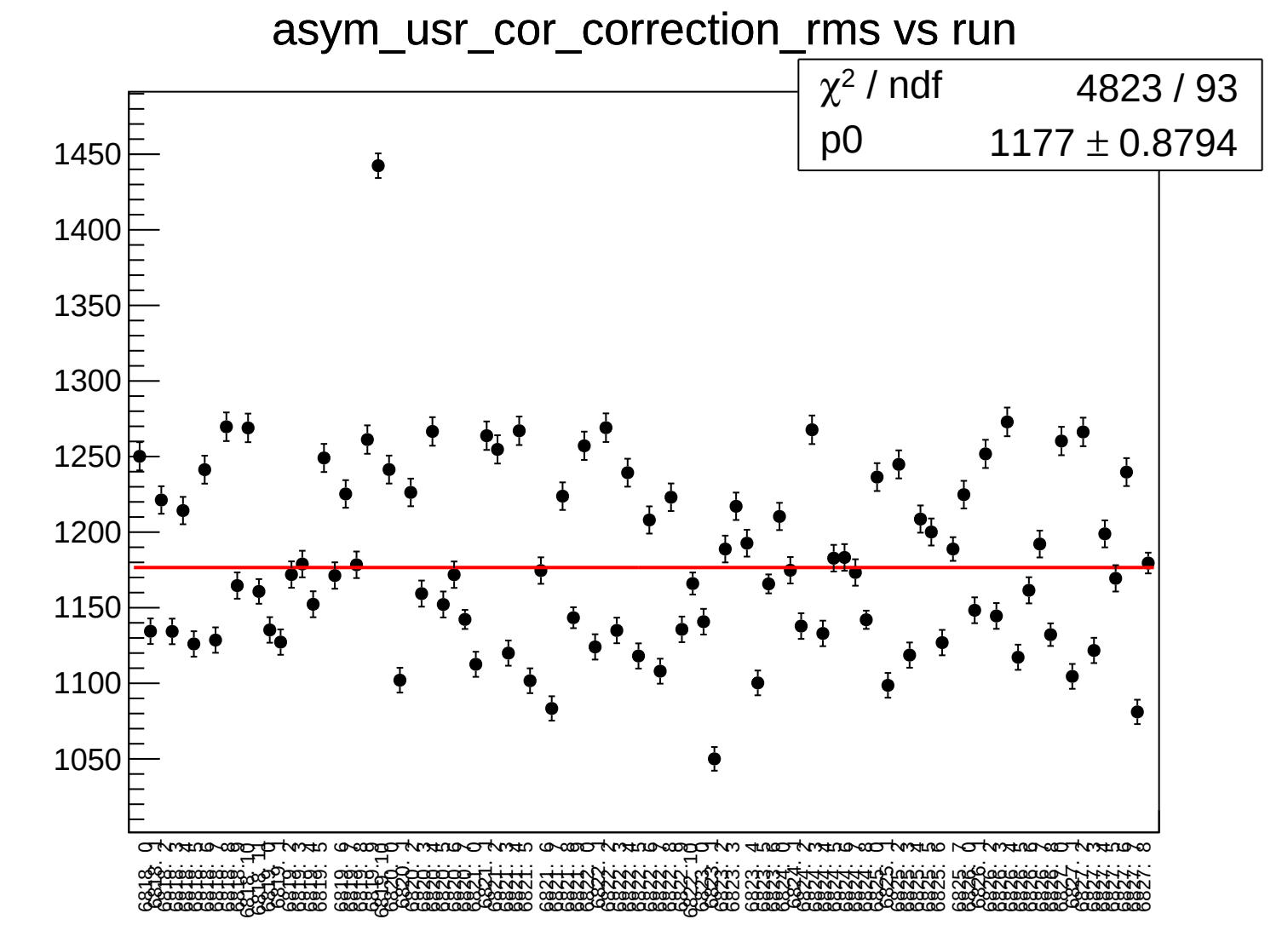

cor_asym_usr_mean vs run
χ² / ndf 107.5 / 93
p0 −1690 ± 1144
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1778
Std Dev 0
3
2
1
0
−1
−2

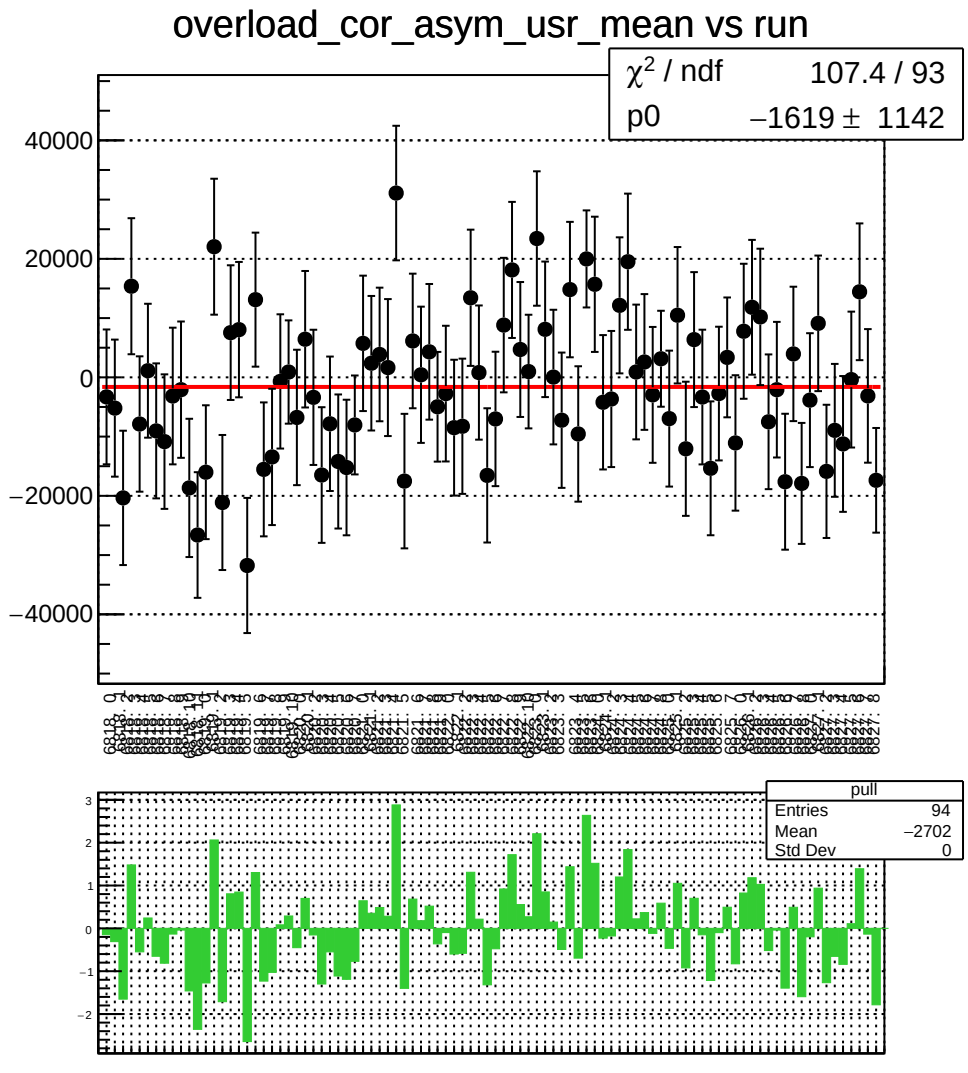

pull1D
Entries 94
Mean −0.002052
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

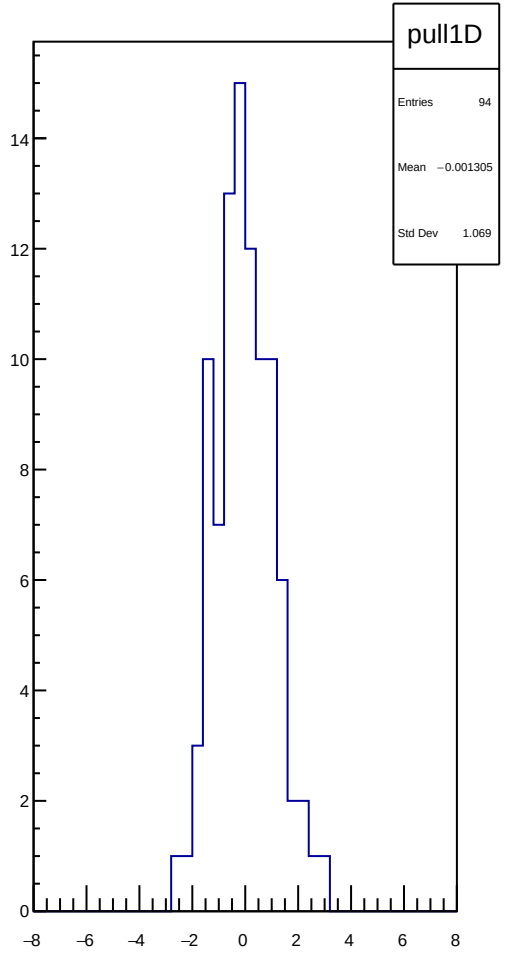

cor_asym_usr_rms vs run
χ² / ndf 94 / 93
p0 1084 ± 0.8091
1120
1110
1100
1090
1080
1070
1060

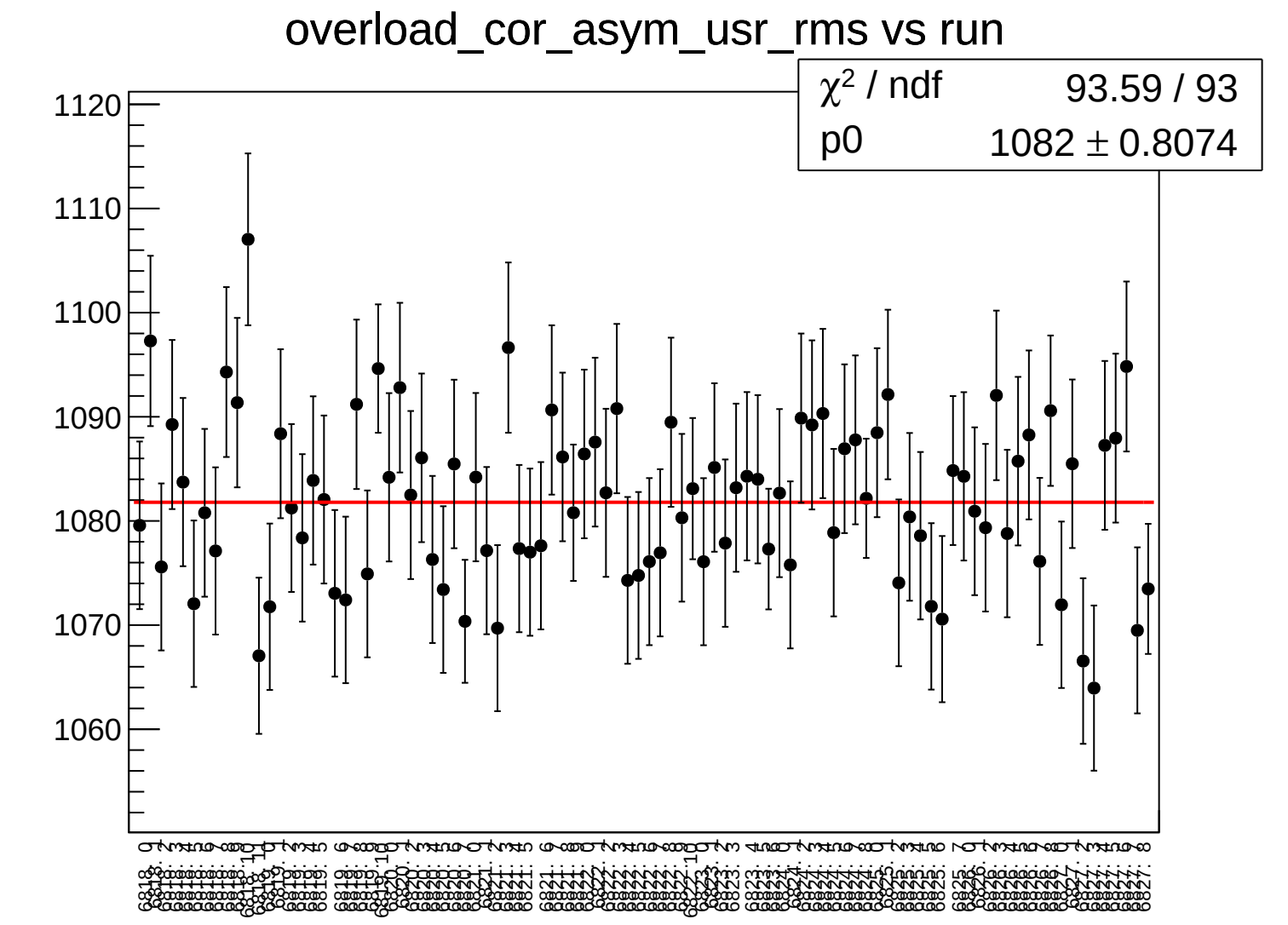

asym_usr_cor_correction_mean vs run
χ² / ndf 76.68 / 93
p0 1156 ± 1244
pull
Entries 94
Mean 35.28
Std Dev 140.1

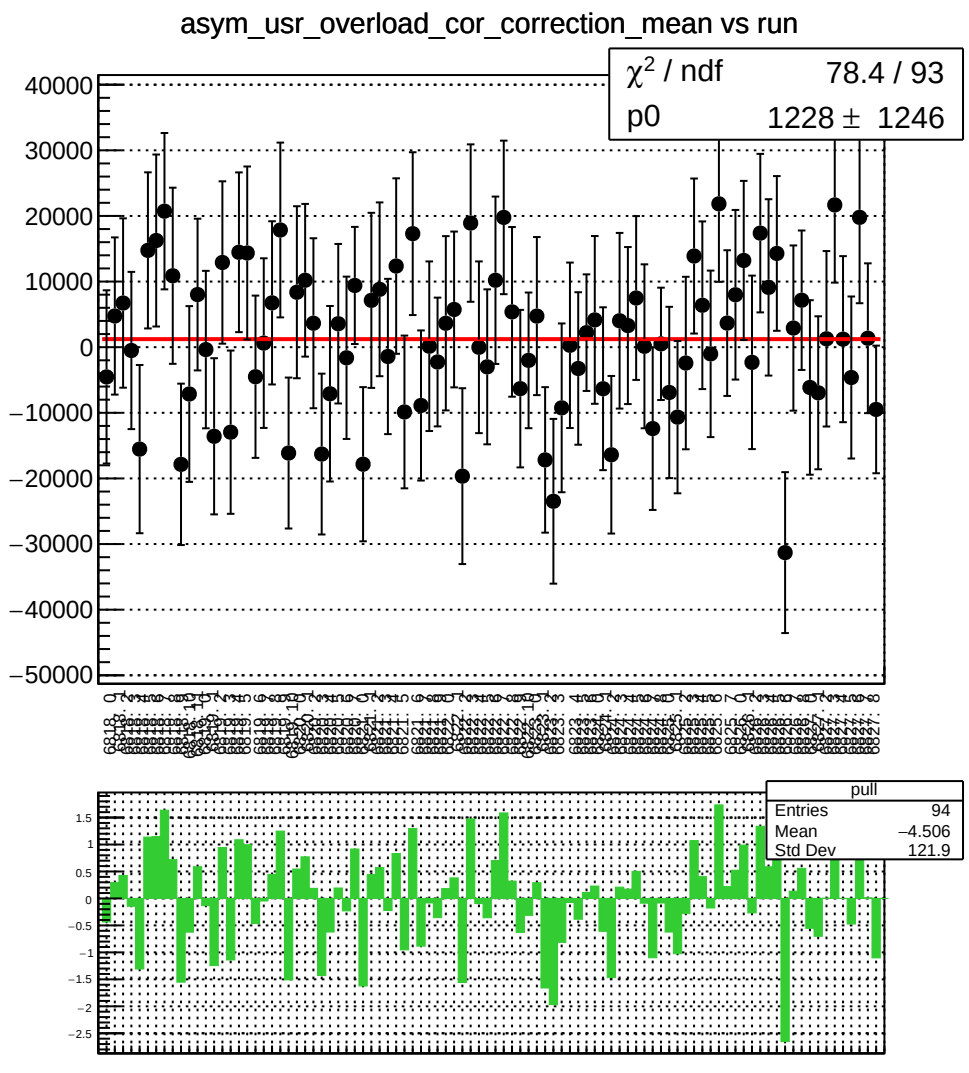

pull1D
Entries 94
Mean 0.003209
Std Dev 0.9032

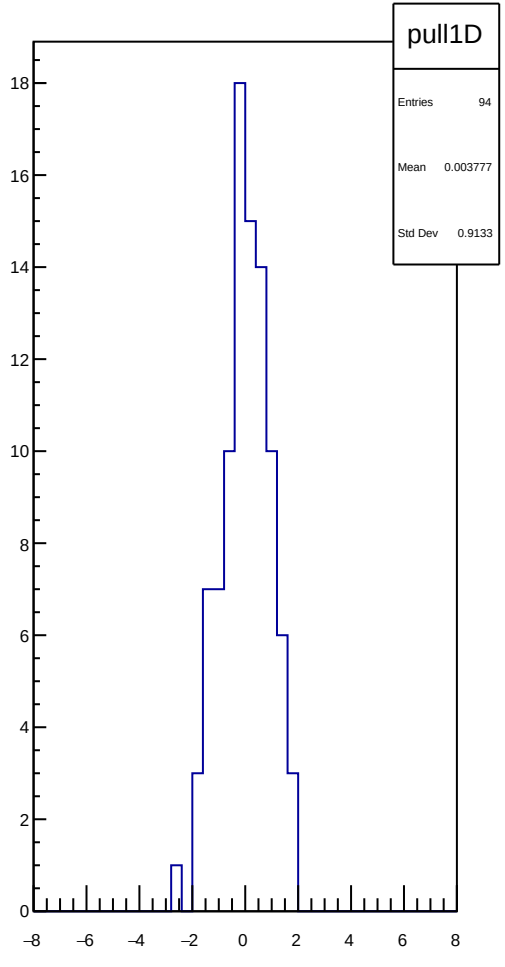

asym_usr_cor_correction_rms vs run
χ² / ndf 4823 / 93
p0 1177 ± 0.8794
1450
1400
1350
1300
1250
1200
1150
1100
1050

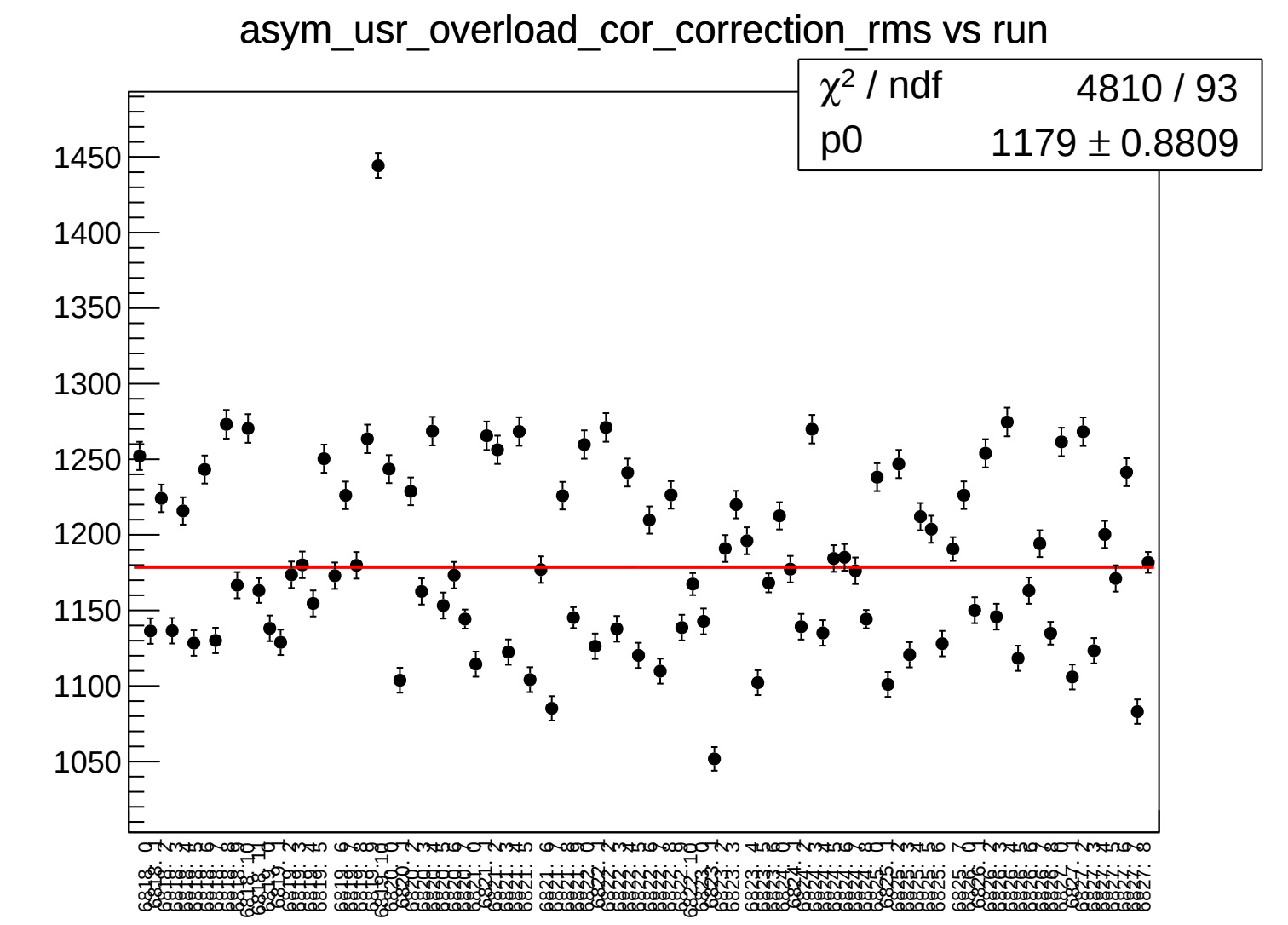

overload_cor_asym_usr_mean vs run
χ² / ndf 107.4 / 93
p0 −1619 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2702
Std Dev 0
3
2
1
0
−1
−2

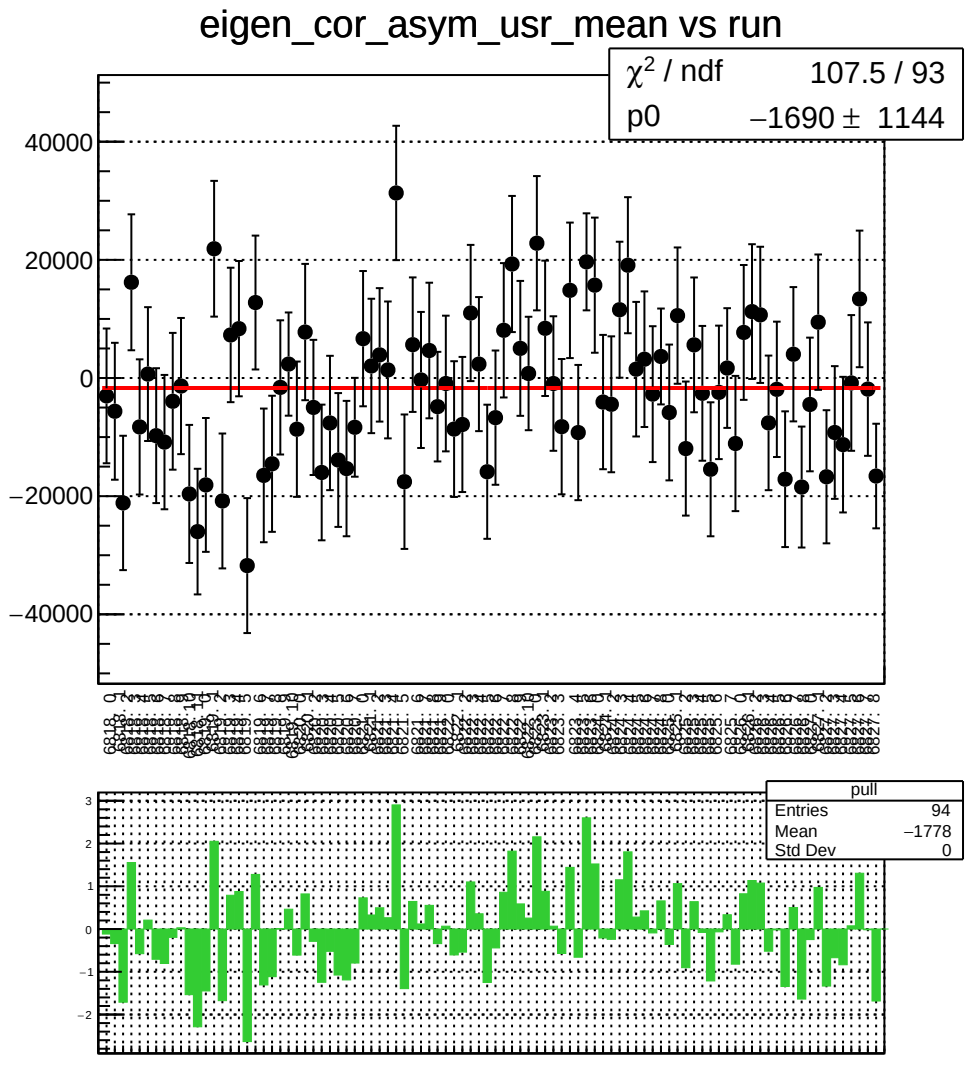

pull1D
Entries 94
Mean −0.001305
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

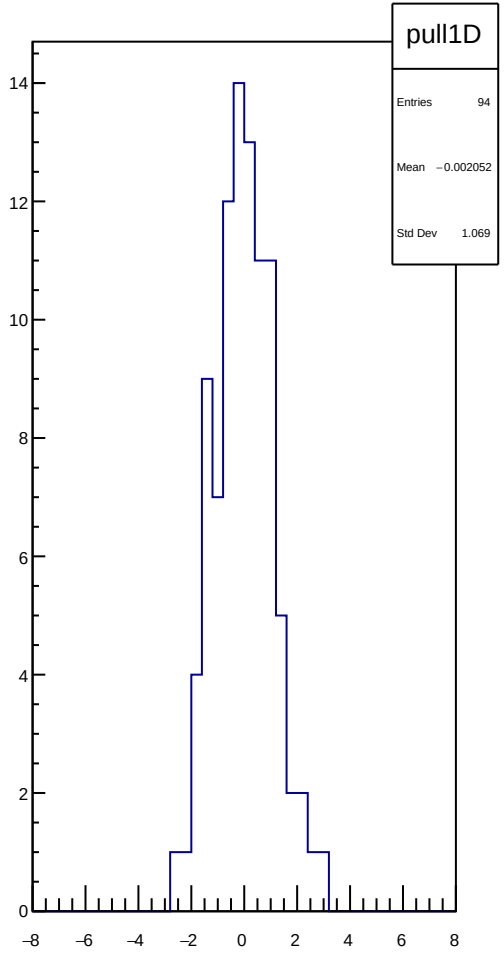

overload_cor_asym_usr_rms vs run
χ² / ndf 93.59 / 93
p0 1082 ± 0.8074
1120
1110
1100
1090
1080
1070
1060


asym_usr_overload_cor_correction_mean vs run
χ² / ndf 78.4 / 93
p0 1228 ± 1246
pull
Entries 94
Mean −4.506
Std Dev 121.9


pull1D
Entries 94
Mean 0.003777
Std Dev 0.9133


asym_usr_overload_cor_correction_rms vs run
χ² / ndf 4810 / 93
p0 1179 ± 0.8809
1450
1400
1350
1300
1250
1200
1150
1100
1050


eigen_cor_asym_usr_mean vs run
χ² / ndf 107.5 / 93
p0 −1690 ± 1144
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1778
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.002052
Std Dev 1.069
14
12
10
8
6
4
2
0
−8
−6
−4
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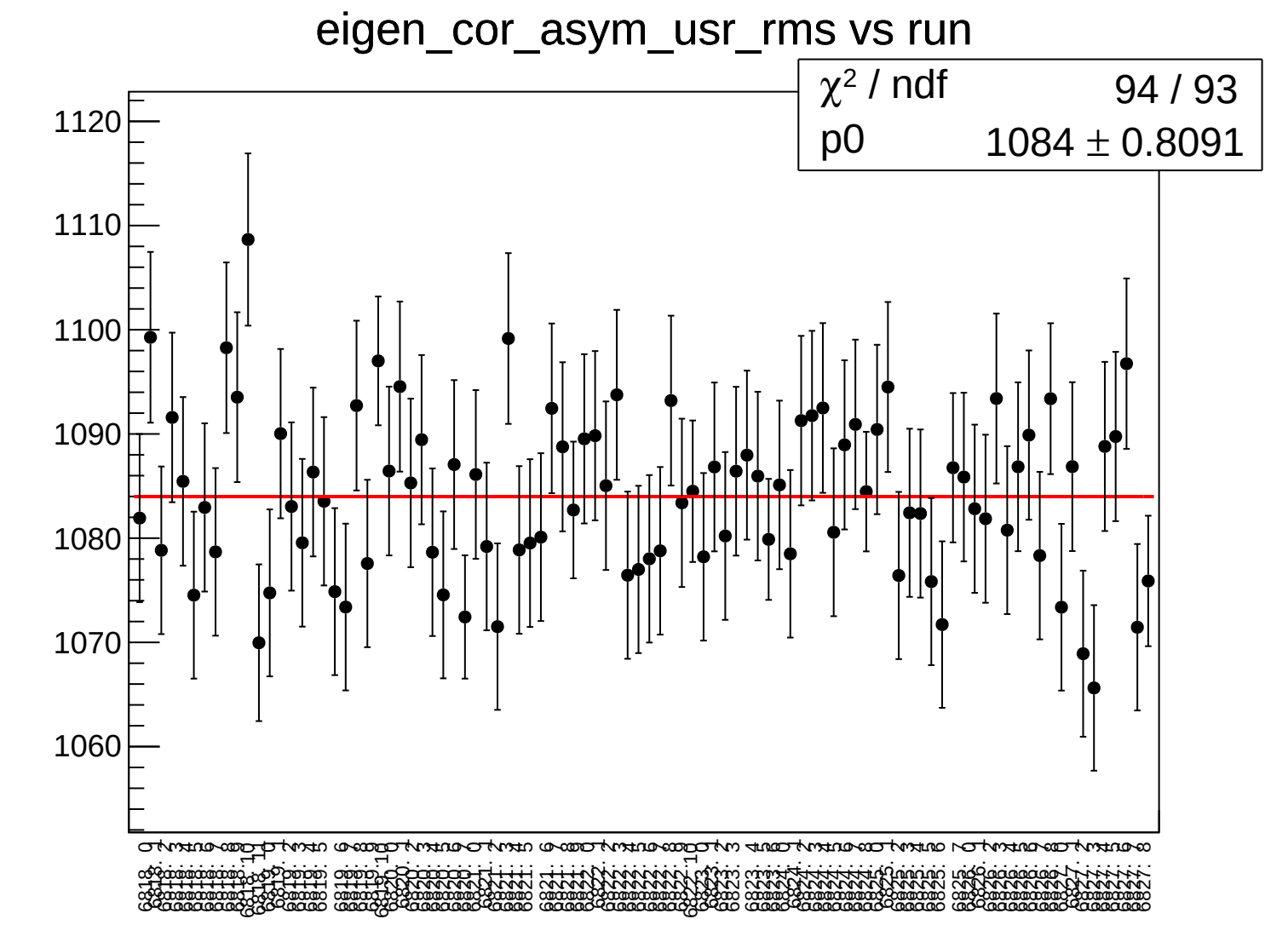
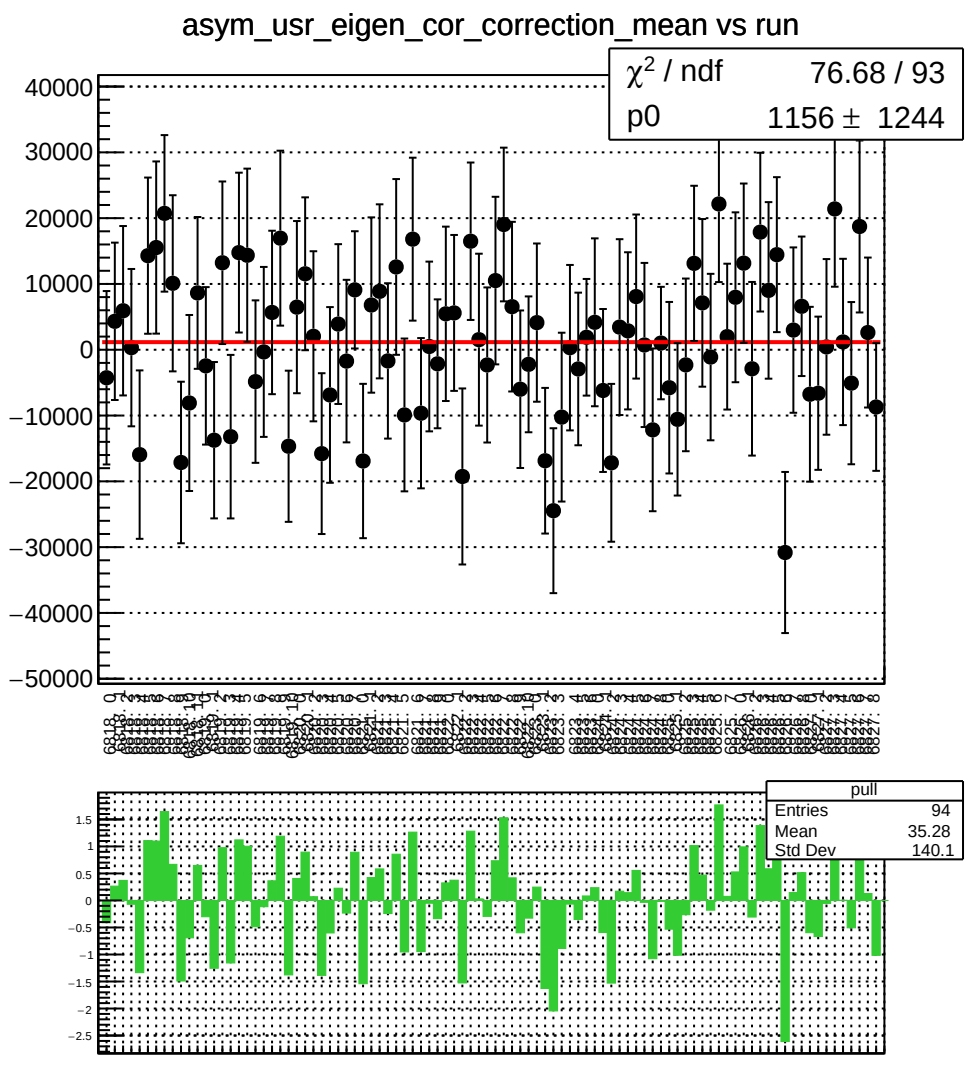
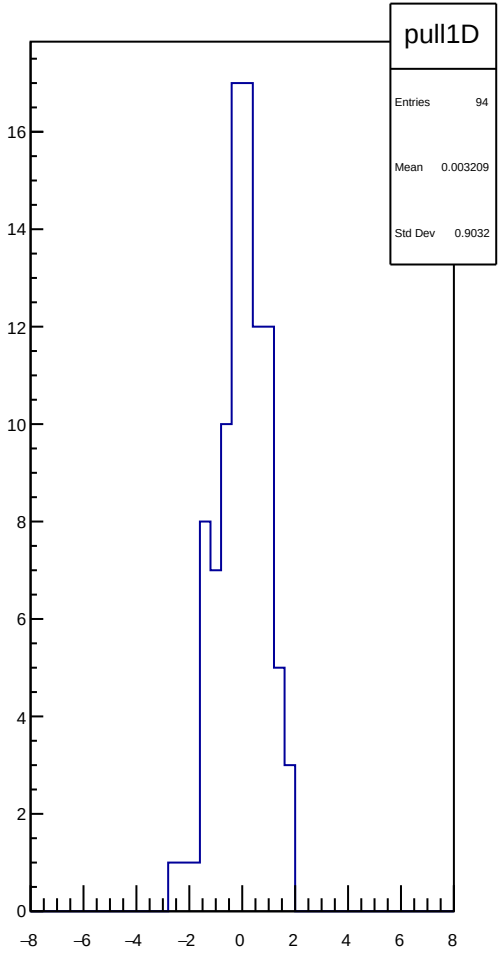
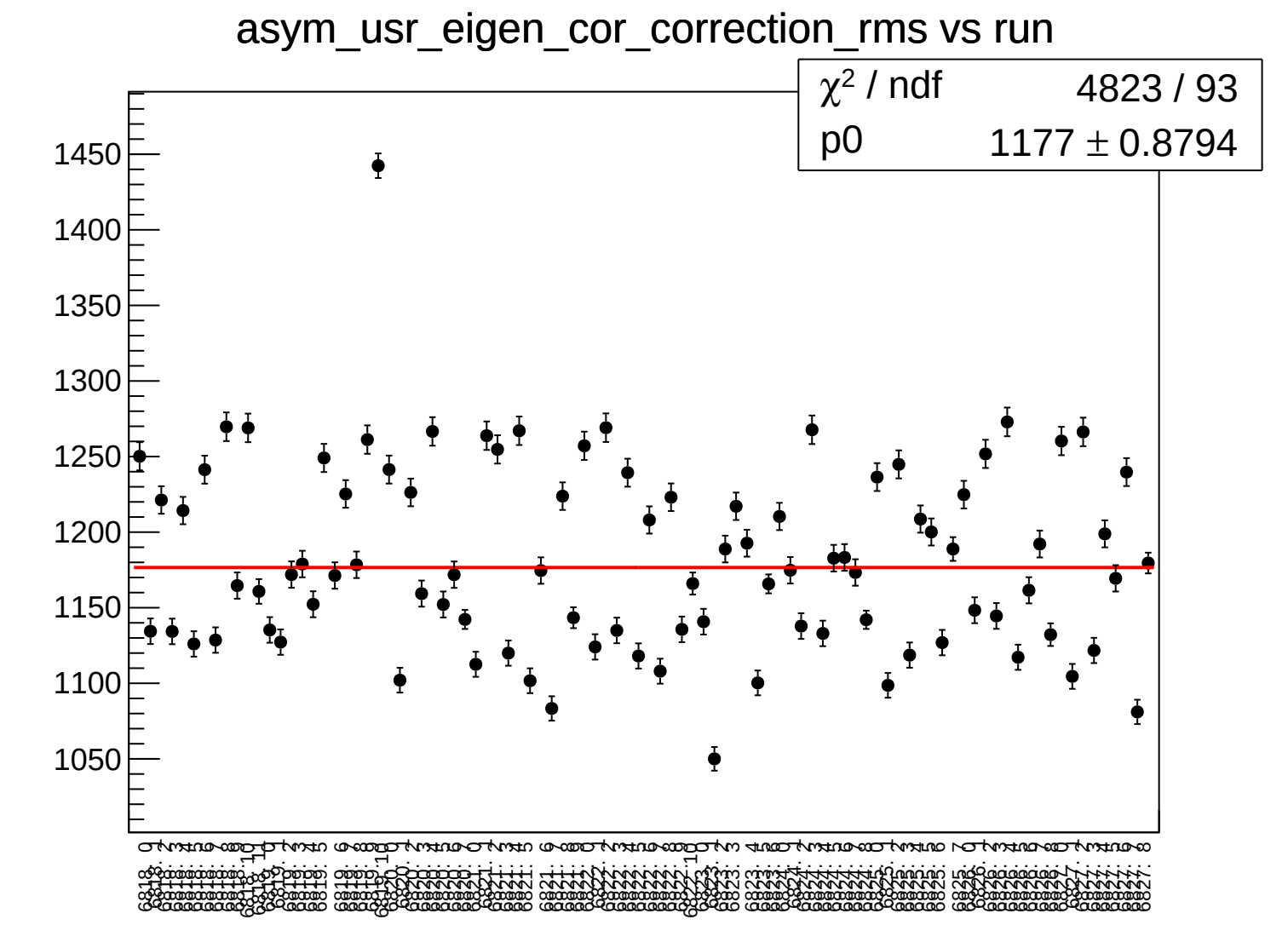
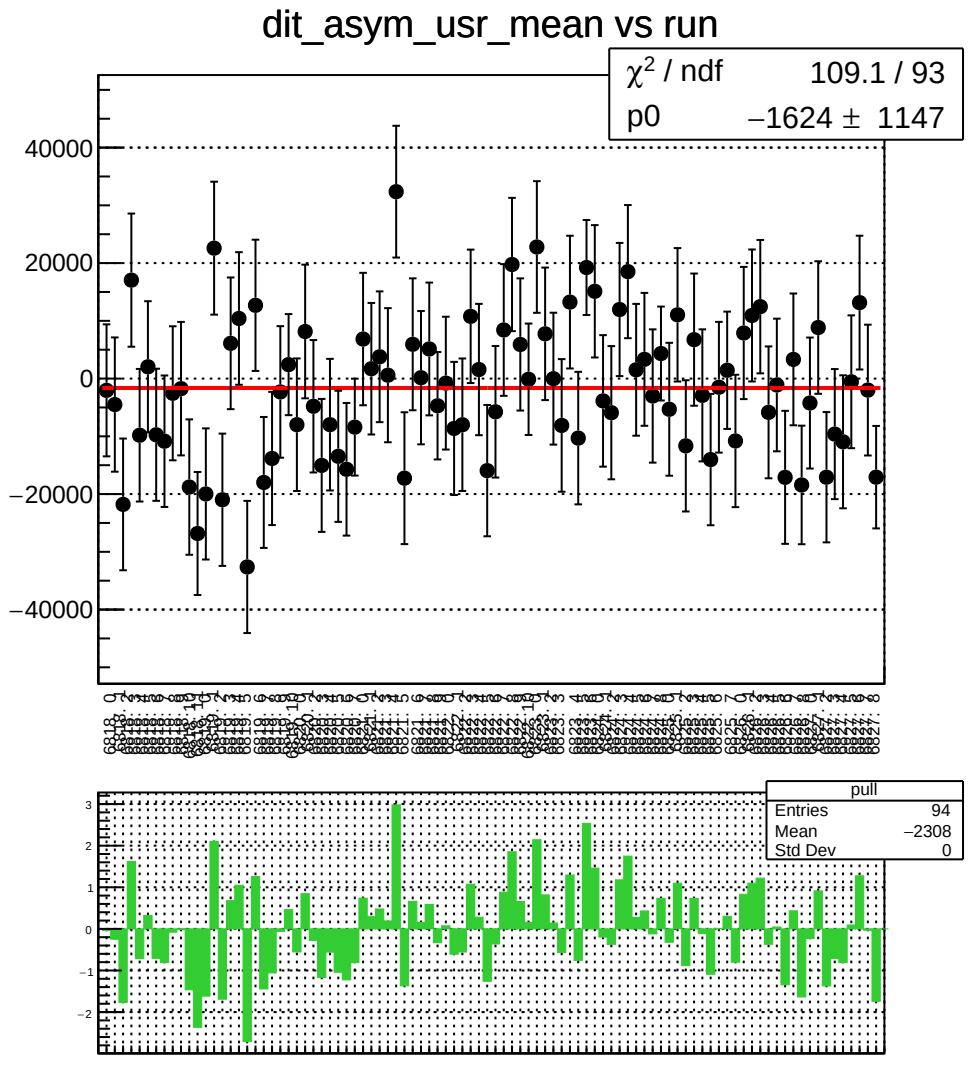
0
2
4
6
8

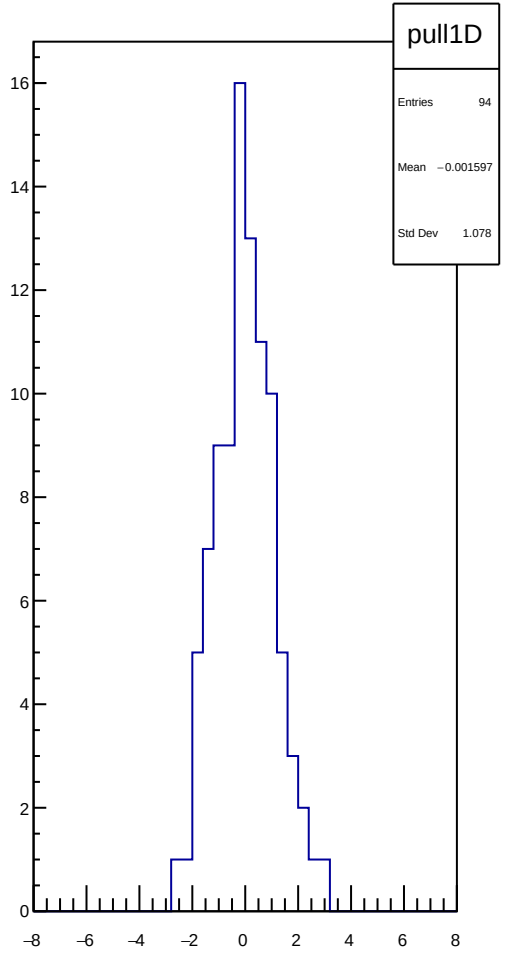

eigen_cor_asym_usr_rms vs run
χ² / ndf 94 / 93
p0 1084 ± 0.8091
1120
1110
1100
1090
1080
1070
1060

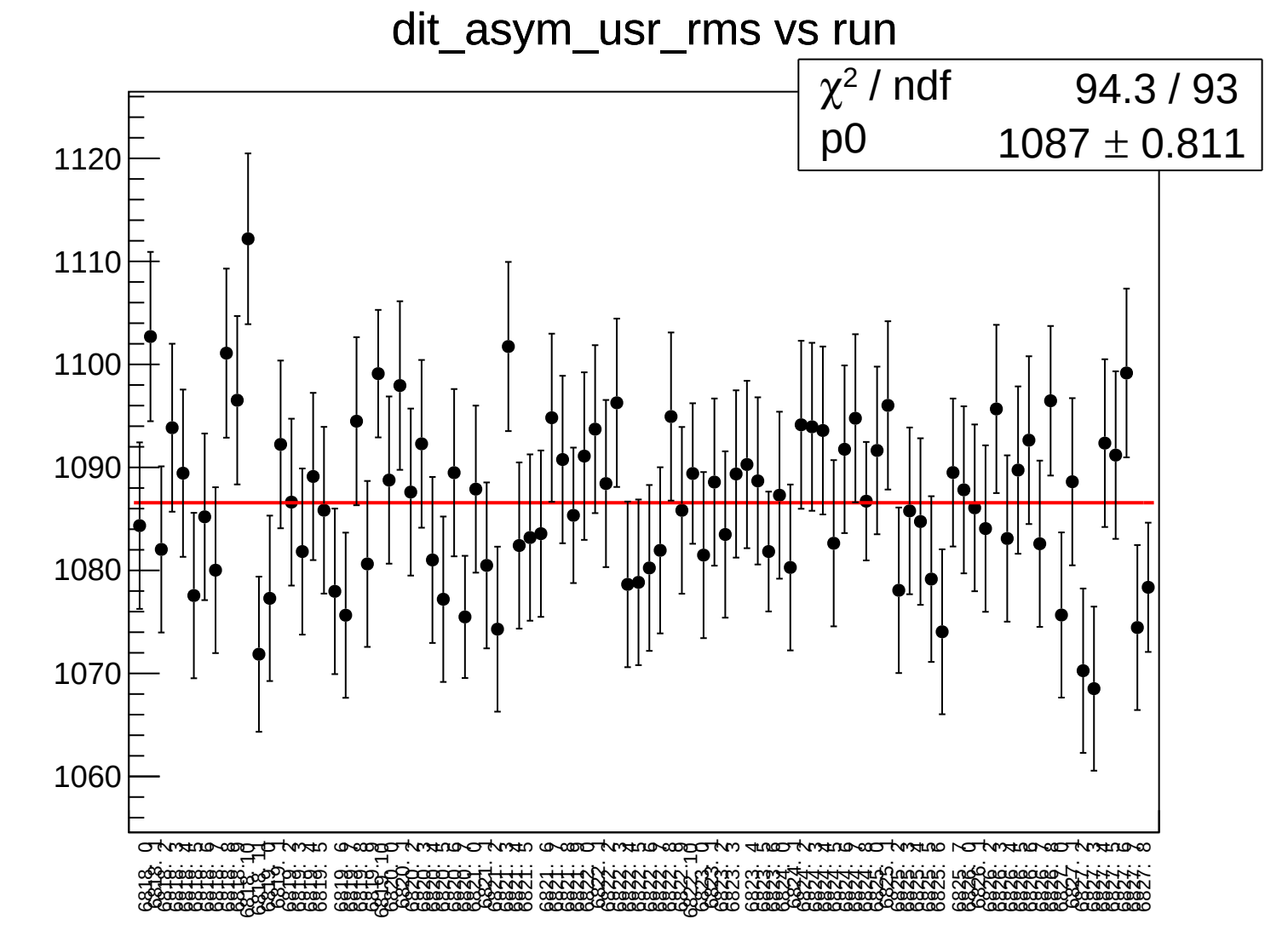

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 76.68 / 93
p0 1156 ± 1244
pull
Entries 94
Mean 35.28
Std Dev 140.1

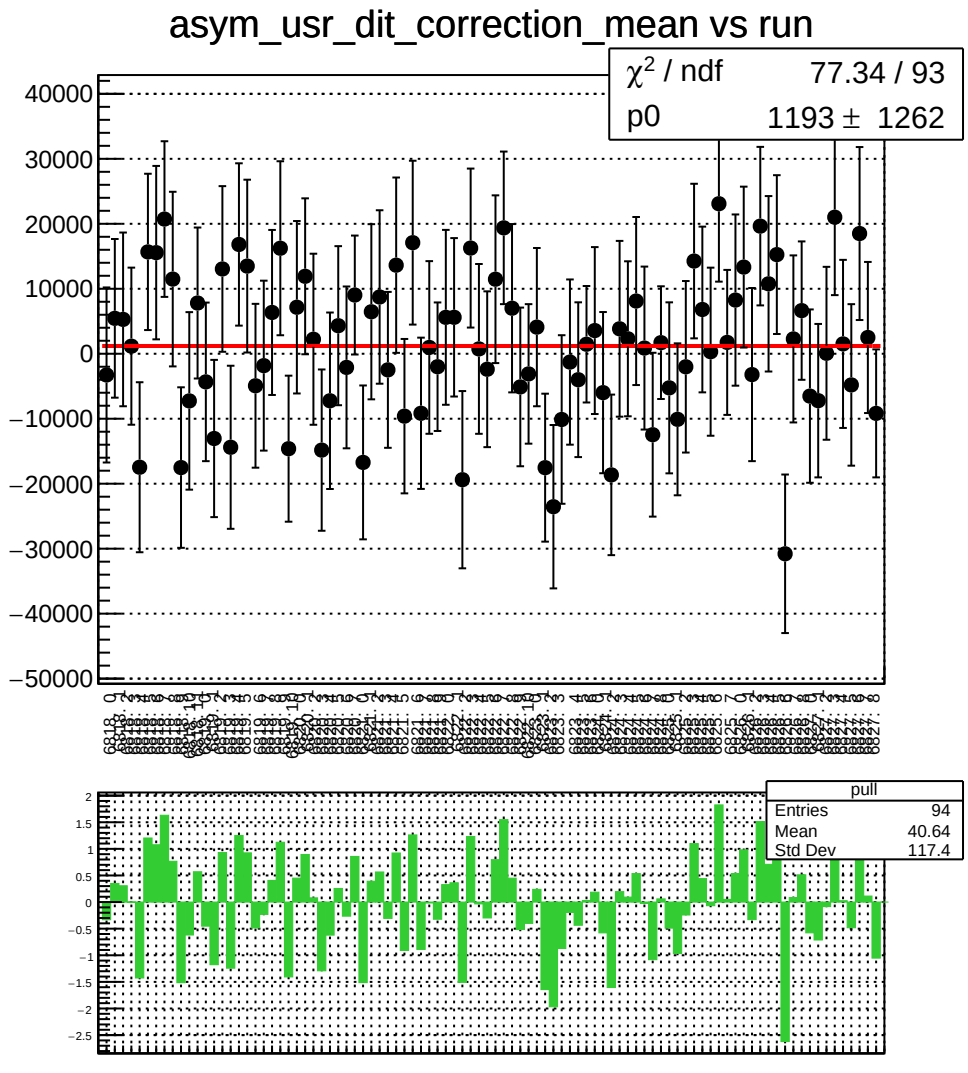

pull1D
Entries 94
Mean 0.003209
Std Dev 0.9032

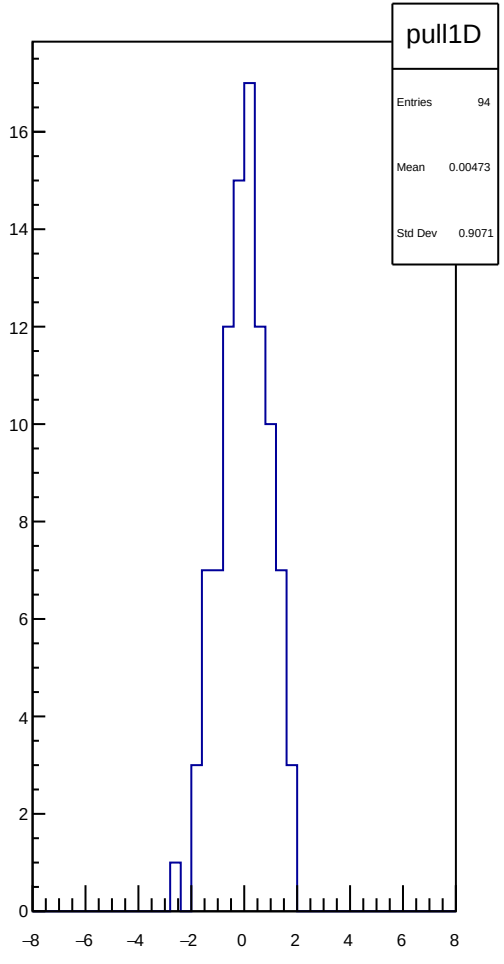

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 4823 / 93
p0 1177 ± 0.8794
1450
1400
1350
1300
1250
1200
1150
1100
1050

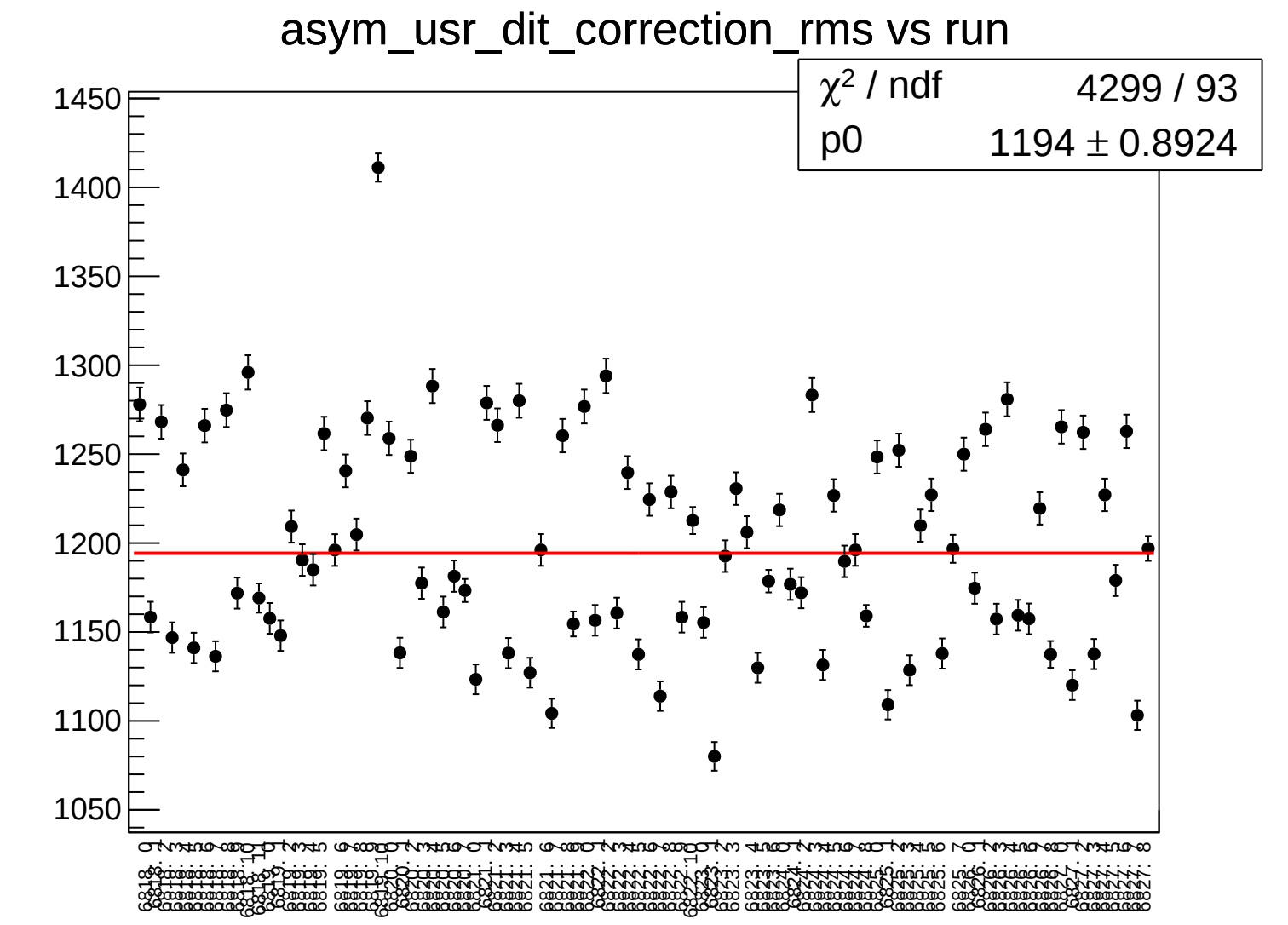

dit_asym_usr_mean vs run
χ² / ndf 109.1 / 93
p0 −1624 ± 1147
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2308
Std Dev 0
3
2
1
0
−1
−2

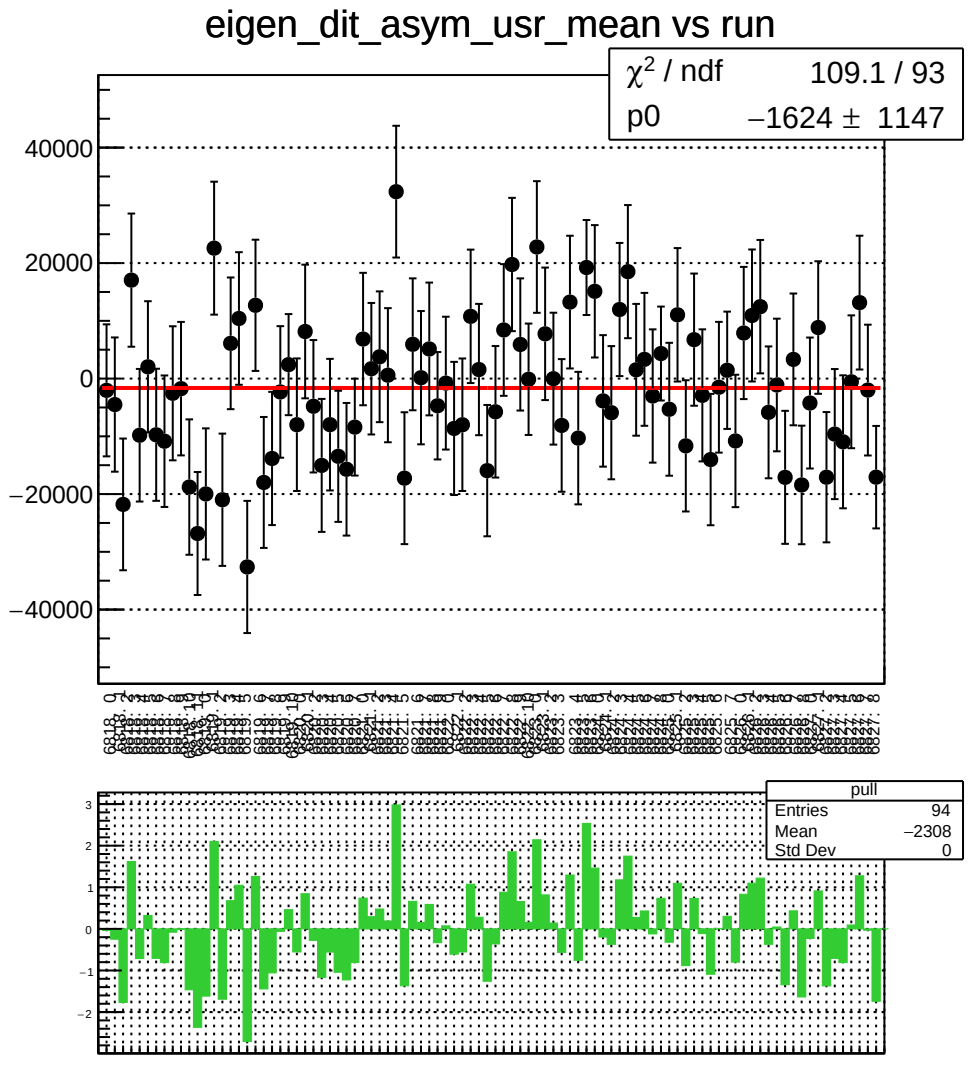

pull1D
Entries 94
Mean −0.001597
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

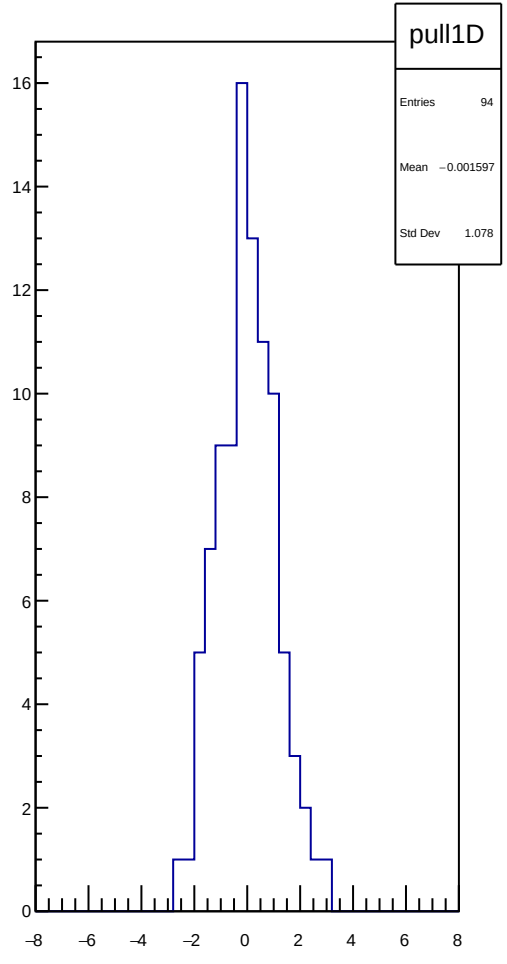

dit_asym_usr_rms vs run
χ² / ndf 94.3 / 93
p0 1087 ± 0.811
1120
1110
1100
1090
1080
1070
1060

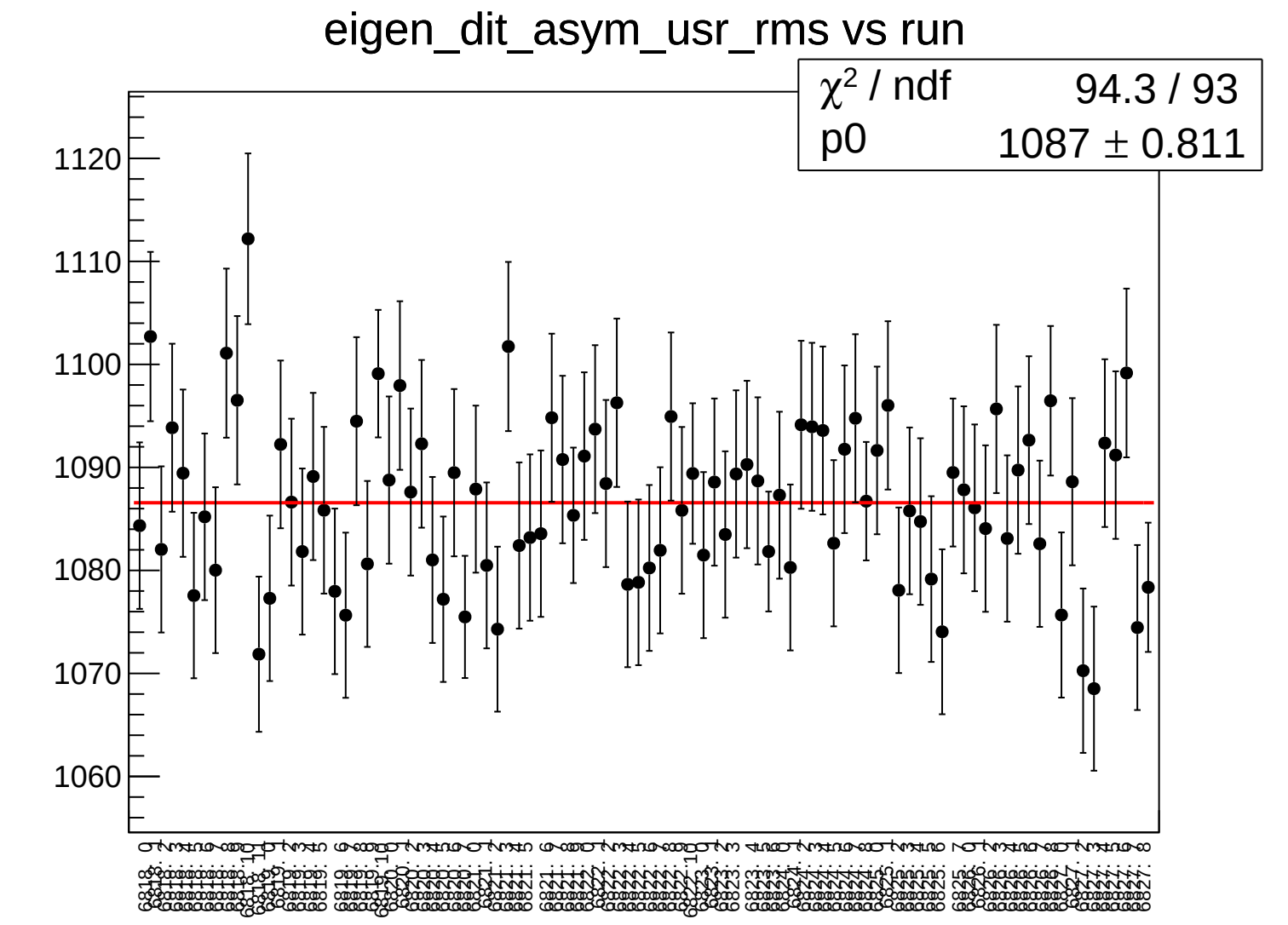

asym_usr_dit_correction_mean vs run
χ² / ndf 77.34 / 93
p0 1193 ± 1262
pull
Entries 94
Mean 40.64
Std Dev 117.4

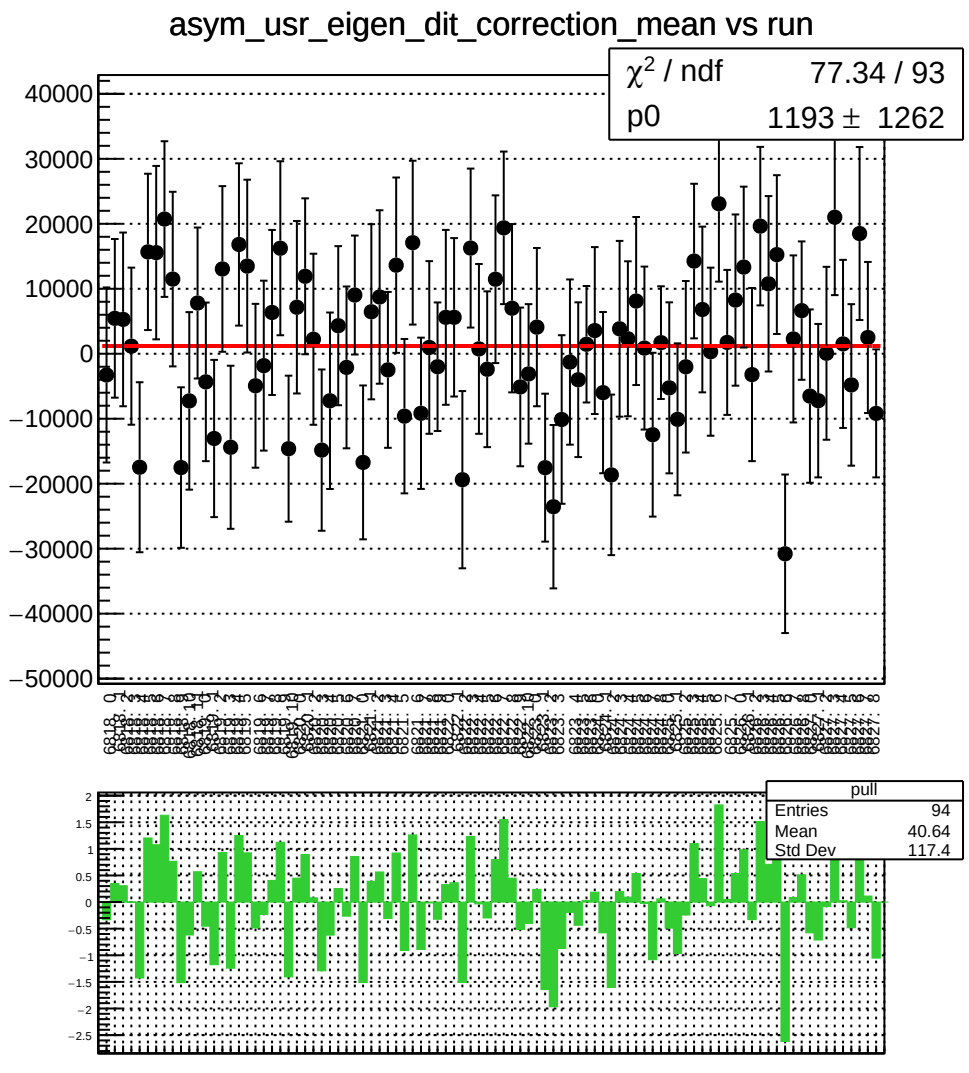

pull1D
Entries 94
Mean 0.00473
Std Dev 0.9071

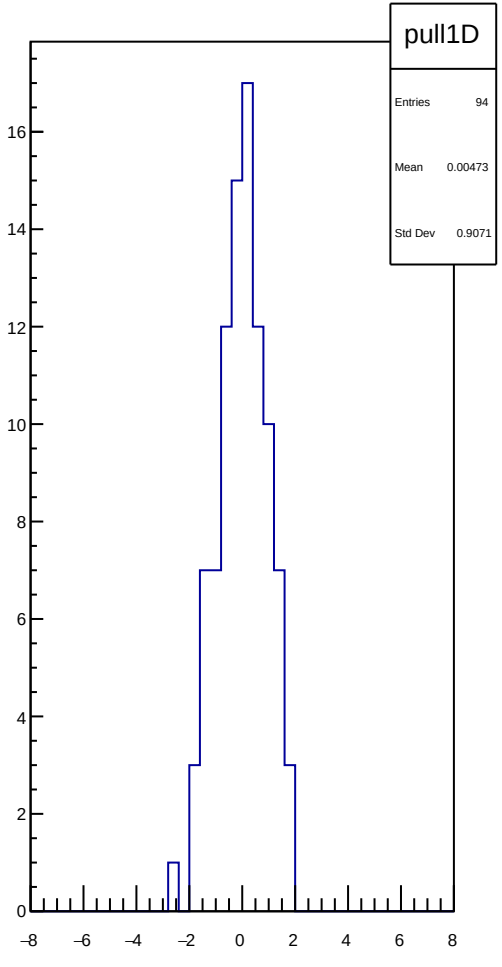

asym_usr_dit_correction_rms vs run
χ² / ndf 4299 / 93
p0 1194 ± 0.8924
1450
1400
1350
1300
1250
1200
1150
1100
1050

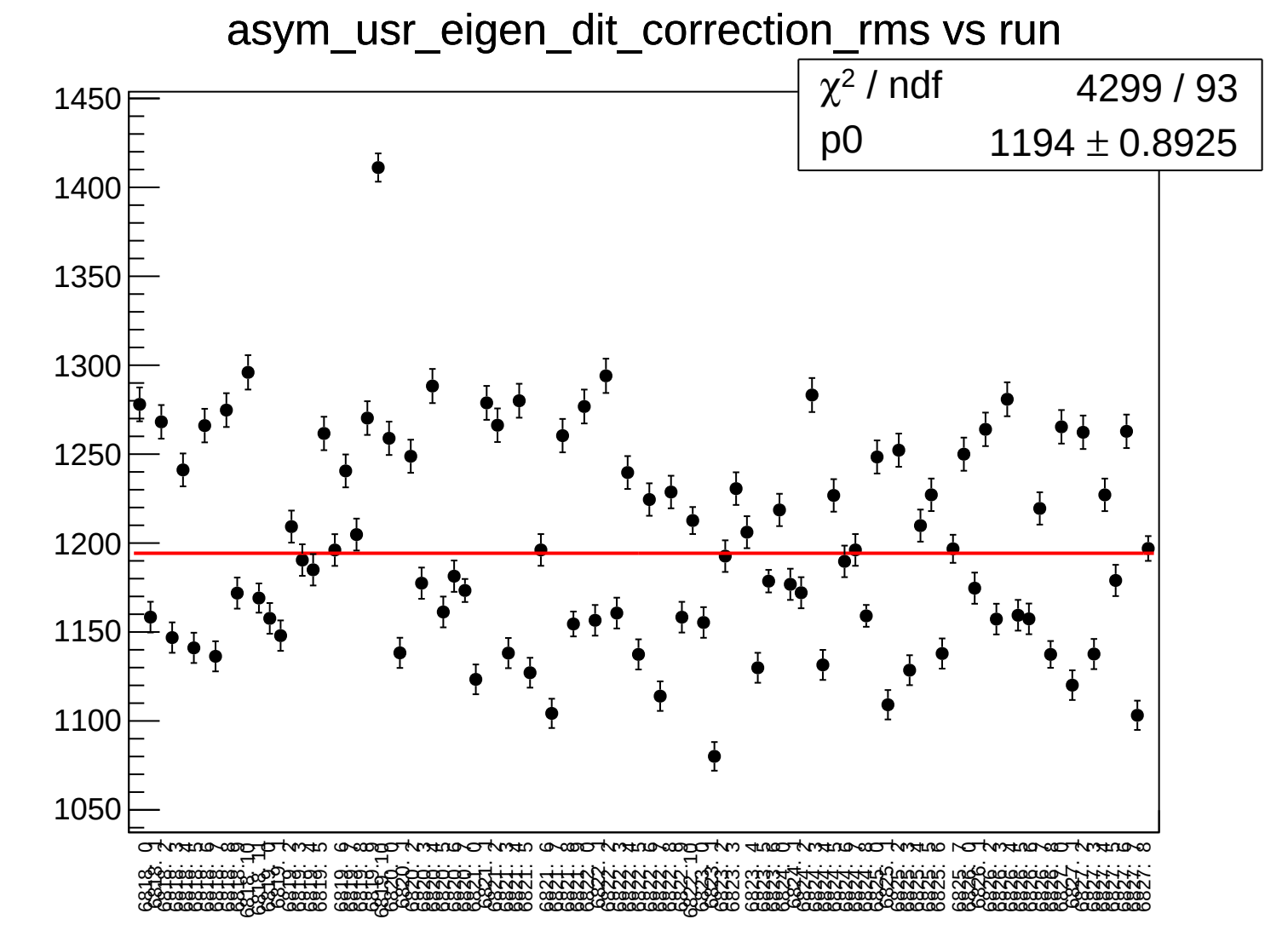

eigen_dit_asym_usr_mean vs run
χ² / ndf 109.1 / 93
p0 −1624 ± 1147
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −2308
Std Dev 0
3
2
1
0
−1
−2

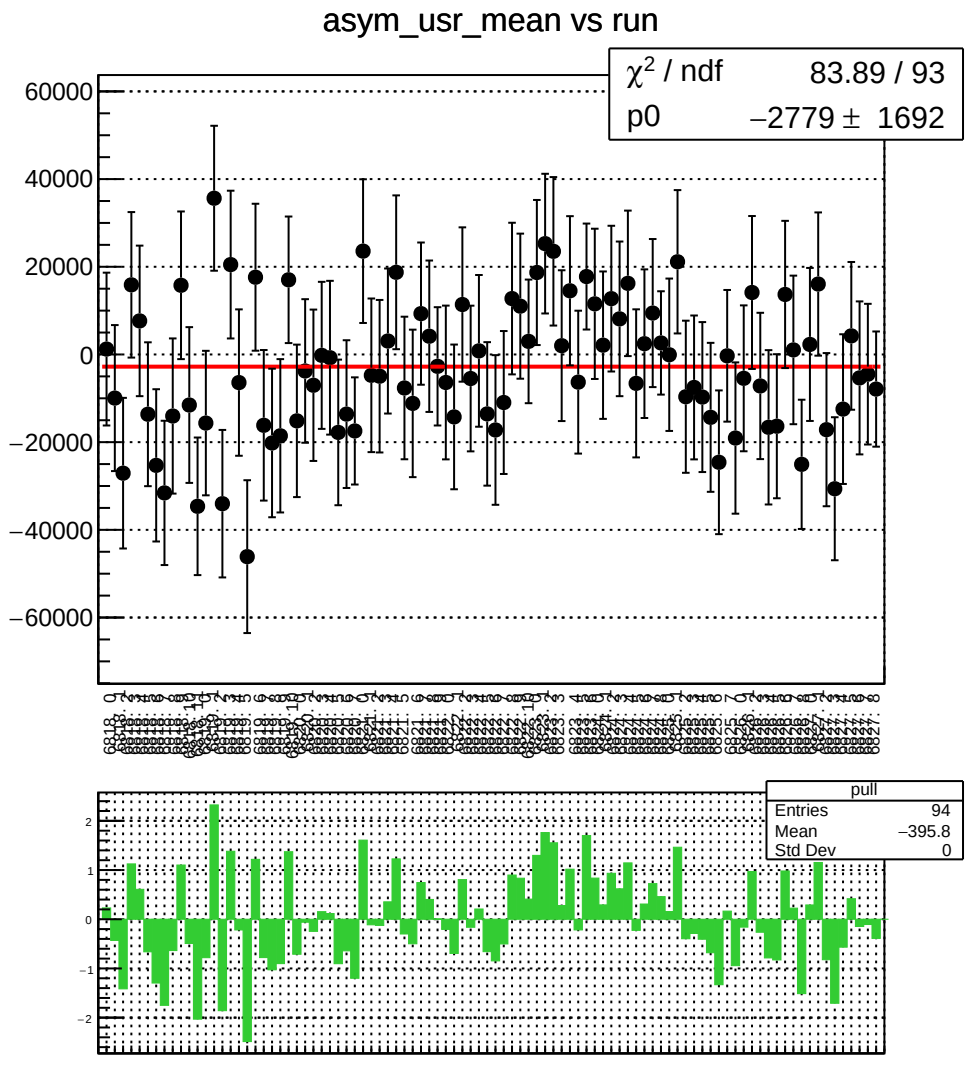

pull1D
Entries 94
Mean −0.001597
Std Dev 1.078
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

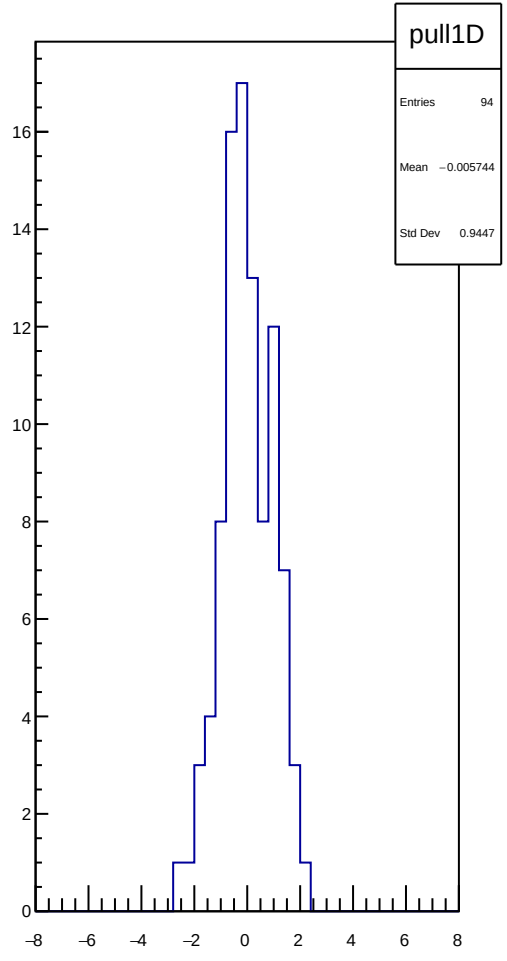

eigen_dit_asym_usr_rms vs run
χ² / ndf 94.3 / 93
p0 1087 ± 0.811
1120
1110
1100
1090
1080
1070
1060

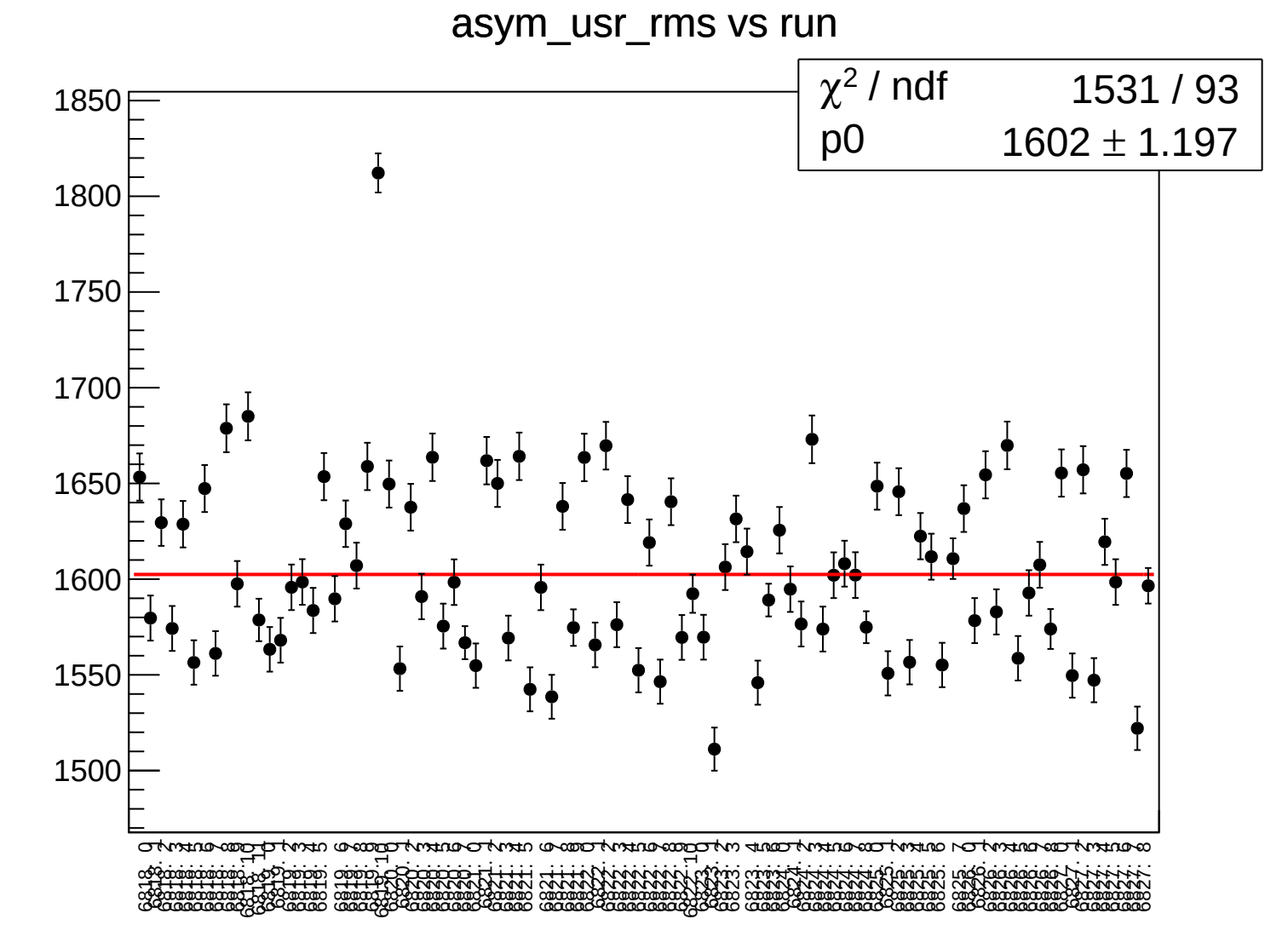

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 77.34 / 93
p0 1193 ± 1262
pull
Entries 94
Mean 40.64
Std Dev 117.4

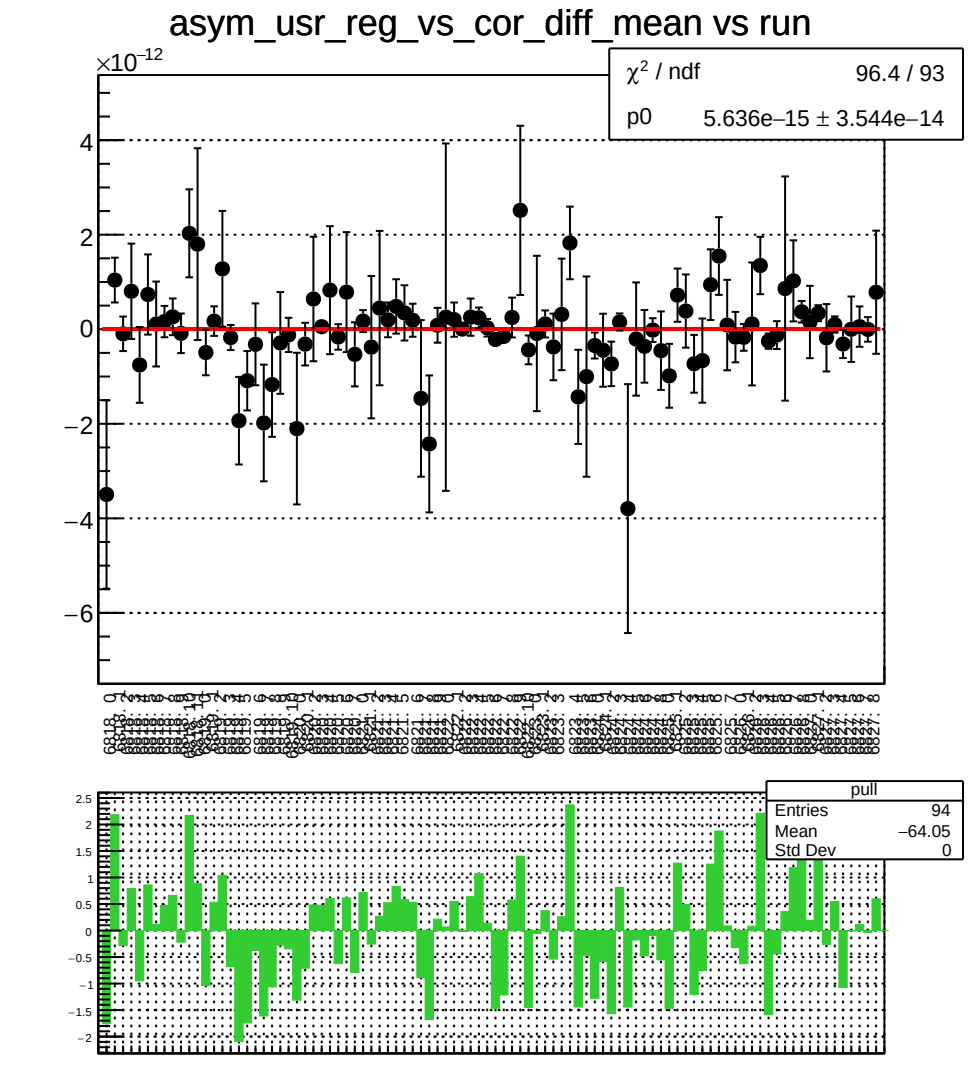

pull1D
Entries 94
Mean 0.00473
Std Dev 0.9071

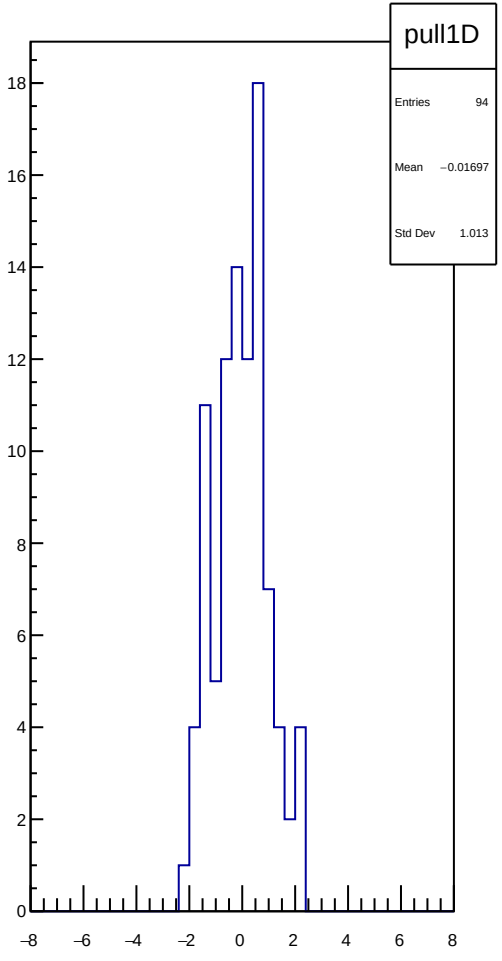

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 4299 / 93
p0 1194 ± 0.8925
1450
1400
1350
1300
1250
1200
1150
1100
1050

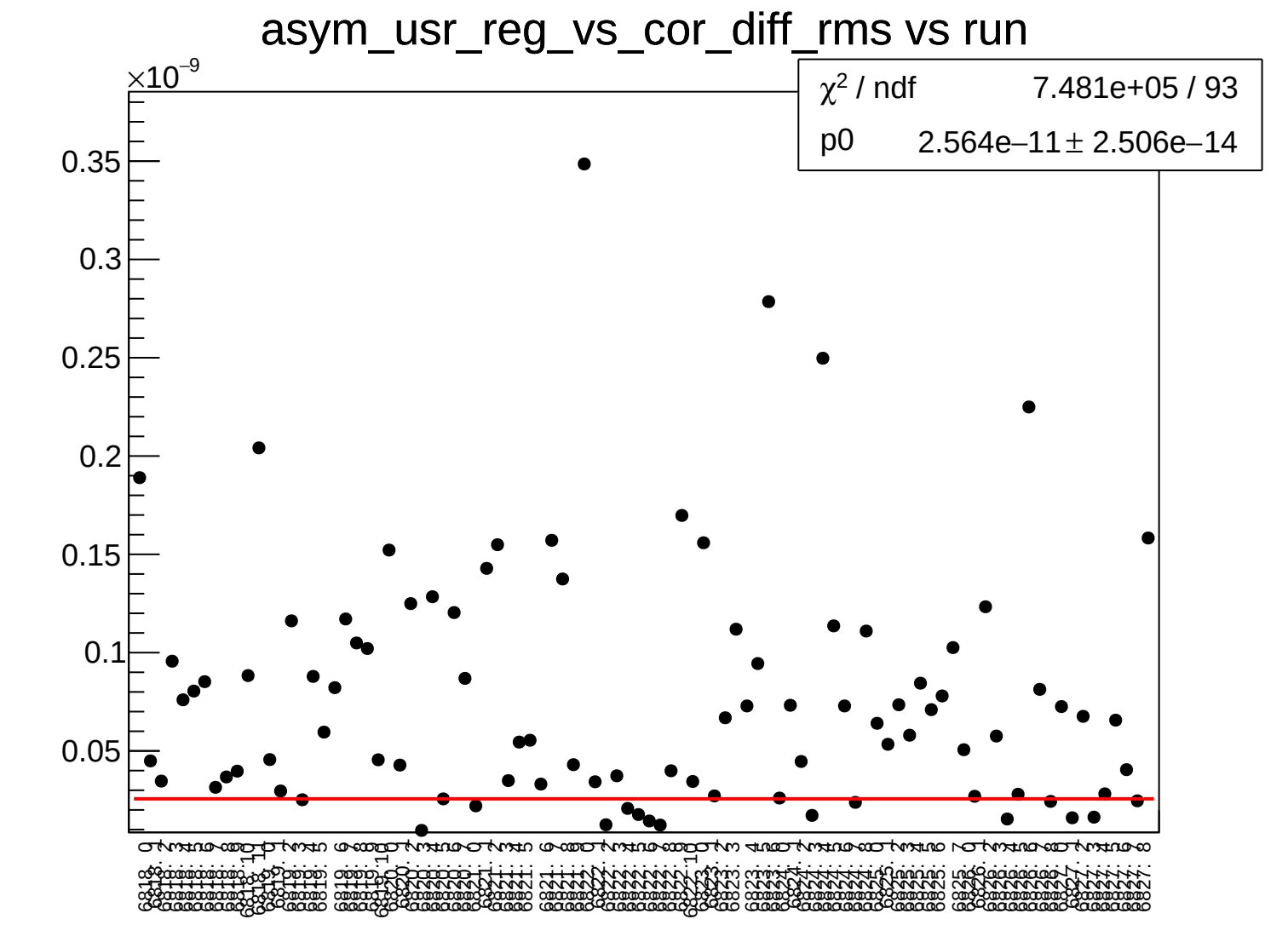

asym_usr_mean vs run
χ² / ndf 83.89 / 93
p0 −2779 ± 1692
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −395.8
Std Dev 0
2
1
0
−1
−2

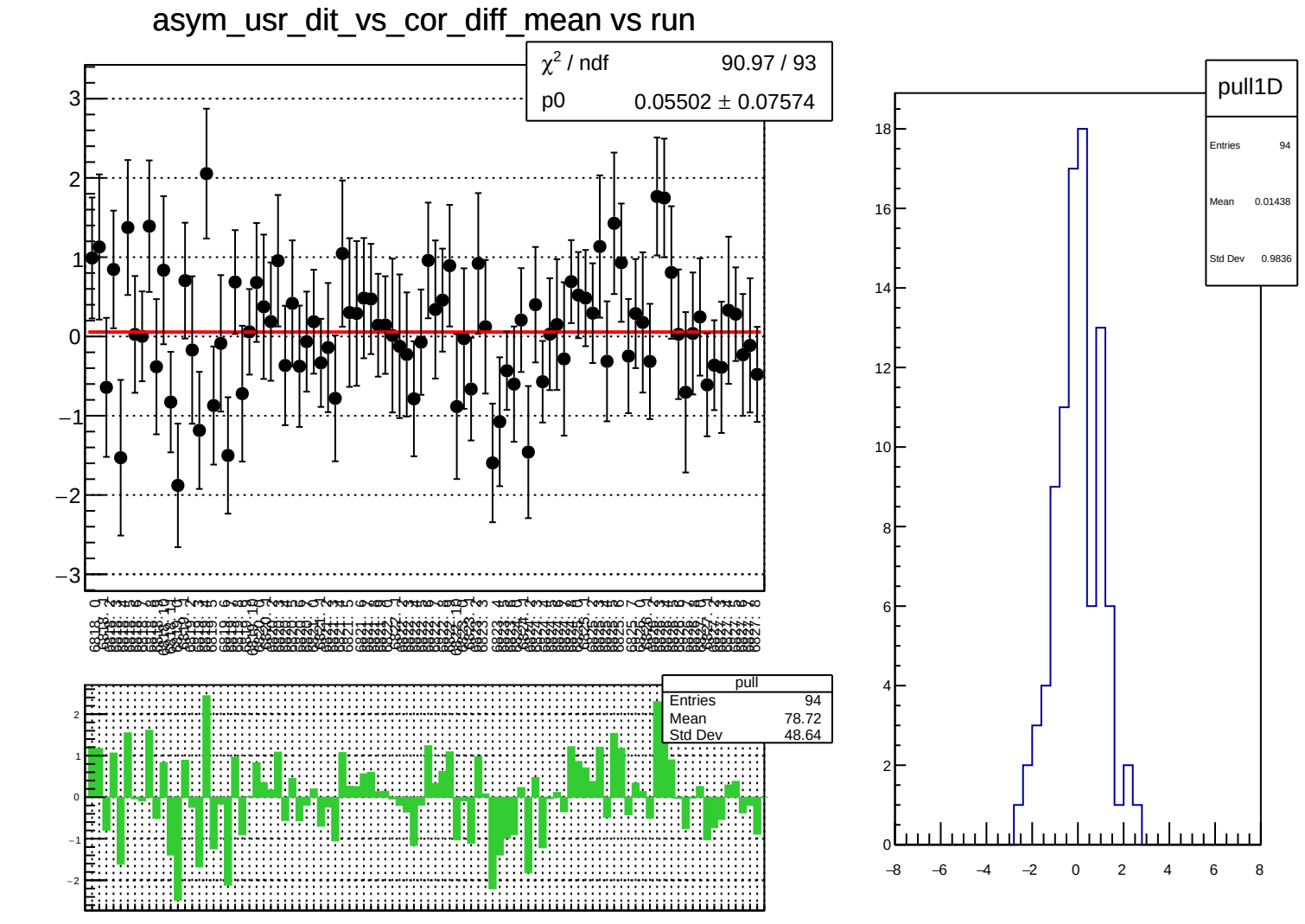

pull1D
Entries 94
Mean −0.005744
Std Dev 0.9447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

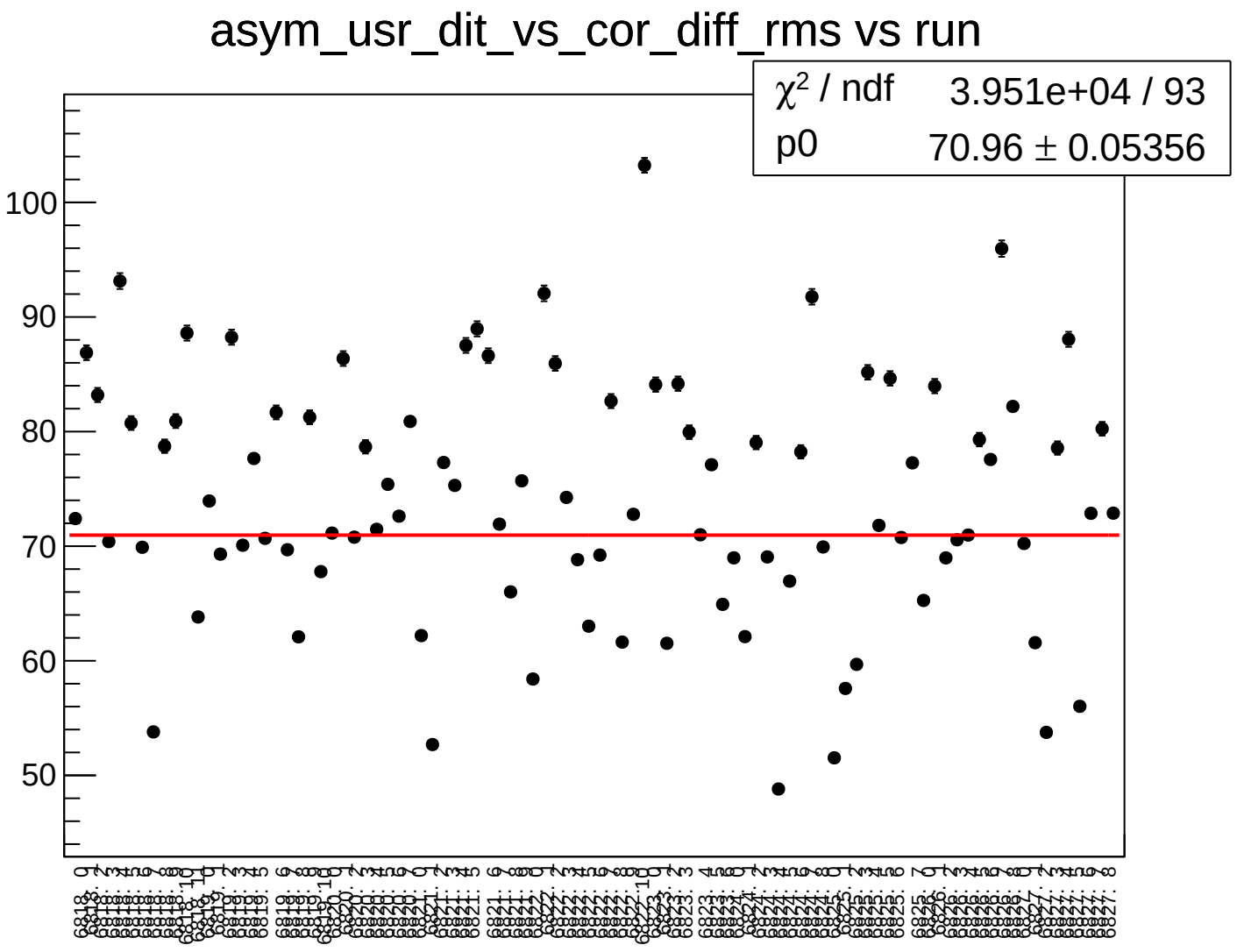

asym_usr_rms vs run
χ² / ndf 1531 / 93
p0 1602 ± 1.197
1850
1800
1750
1700
1650
1600
1550
1500

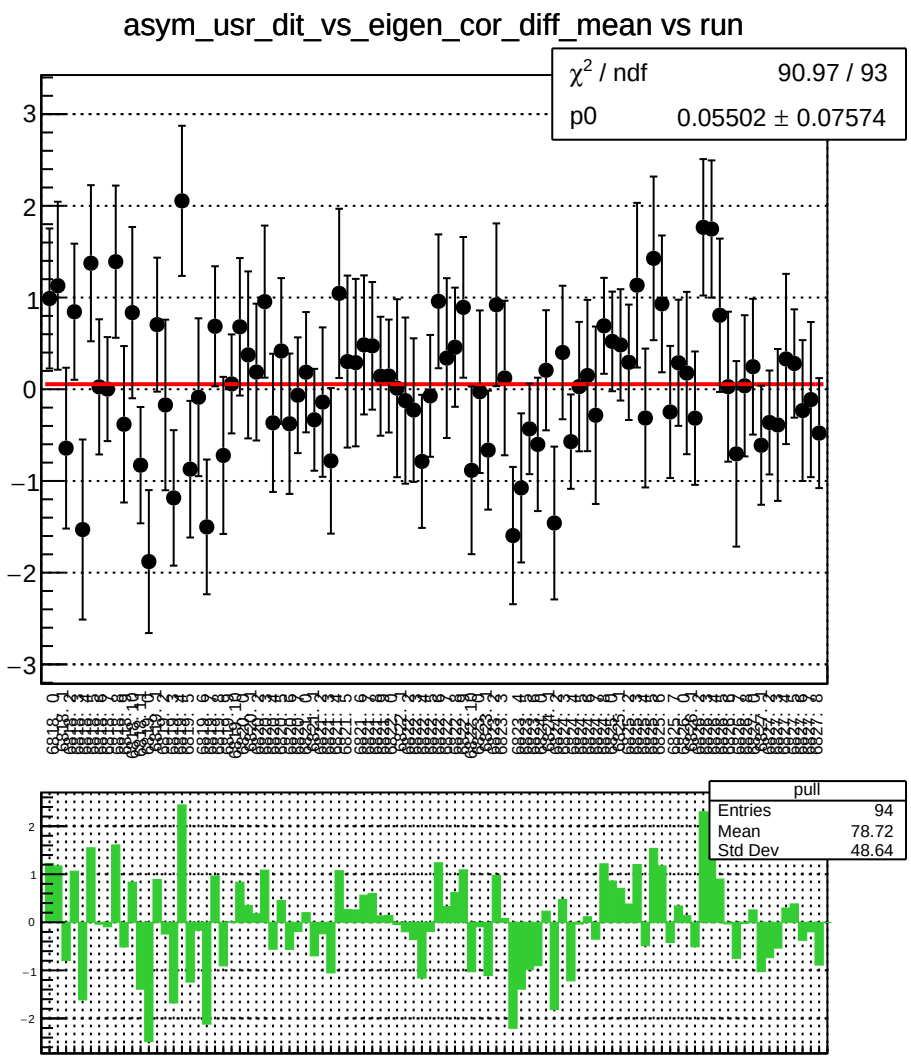

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.4 / 93
p0 5.636e−15 ± 3.544e−14
pull
Entries 94
Mean −64.05
Std Dev 0

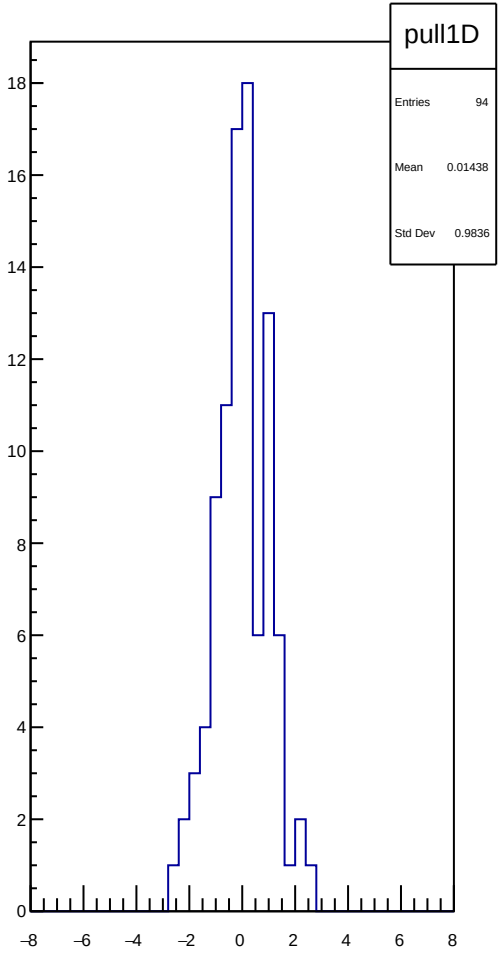

pull1D
Entries 94
Mean −0.01697
Std Dev 1.013

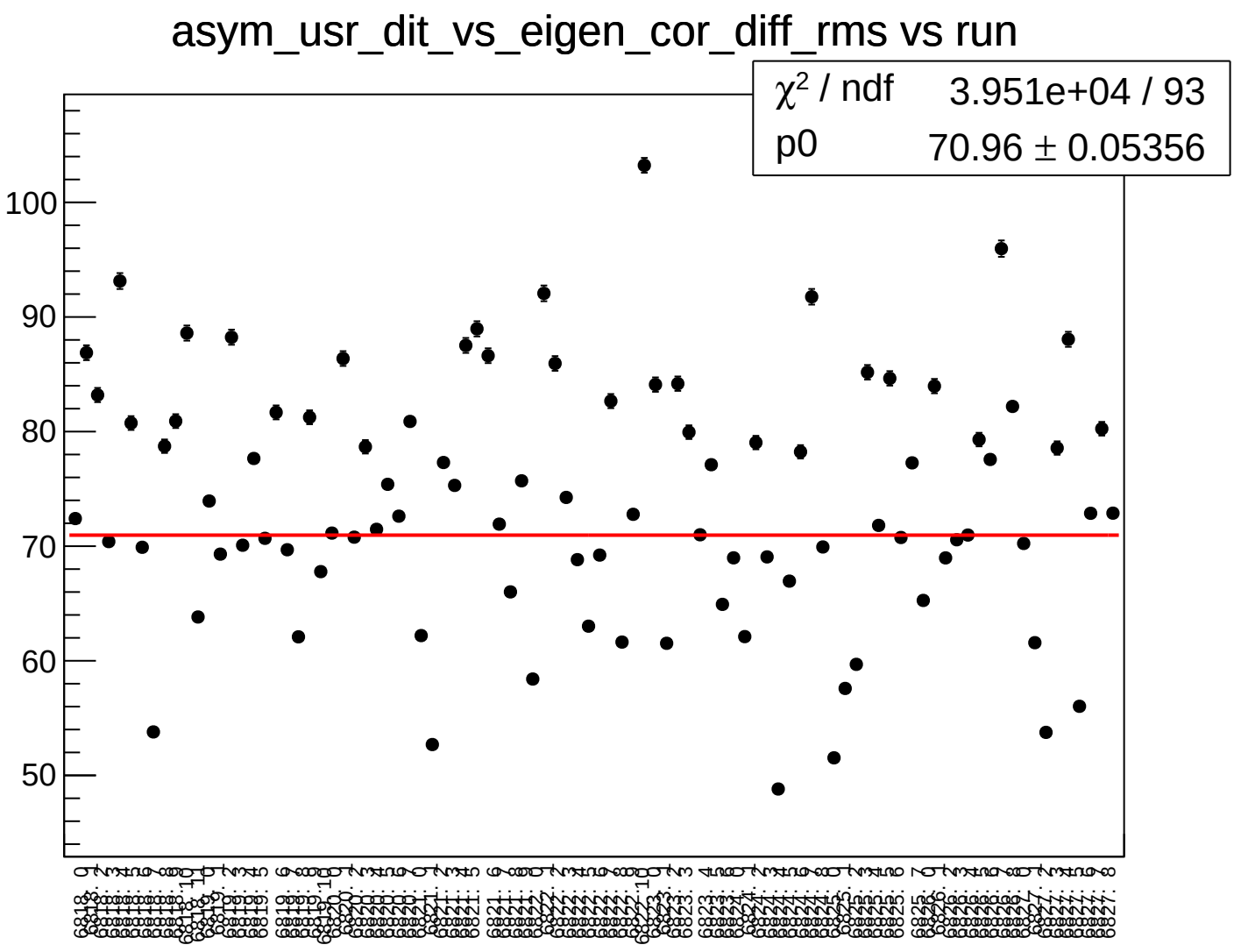

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.481e+05 / 93
p0 2.564e−11 ± 2.506e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

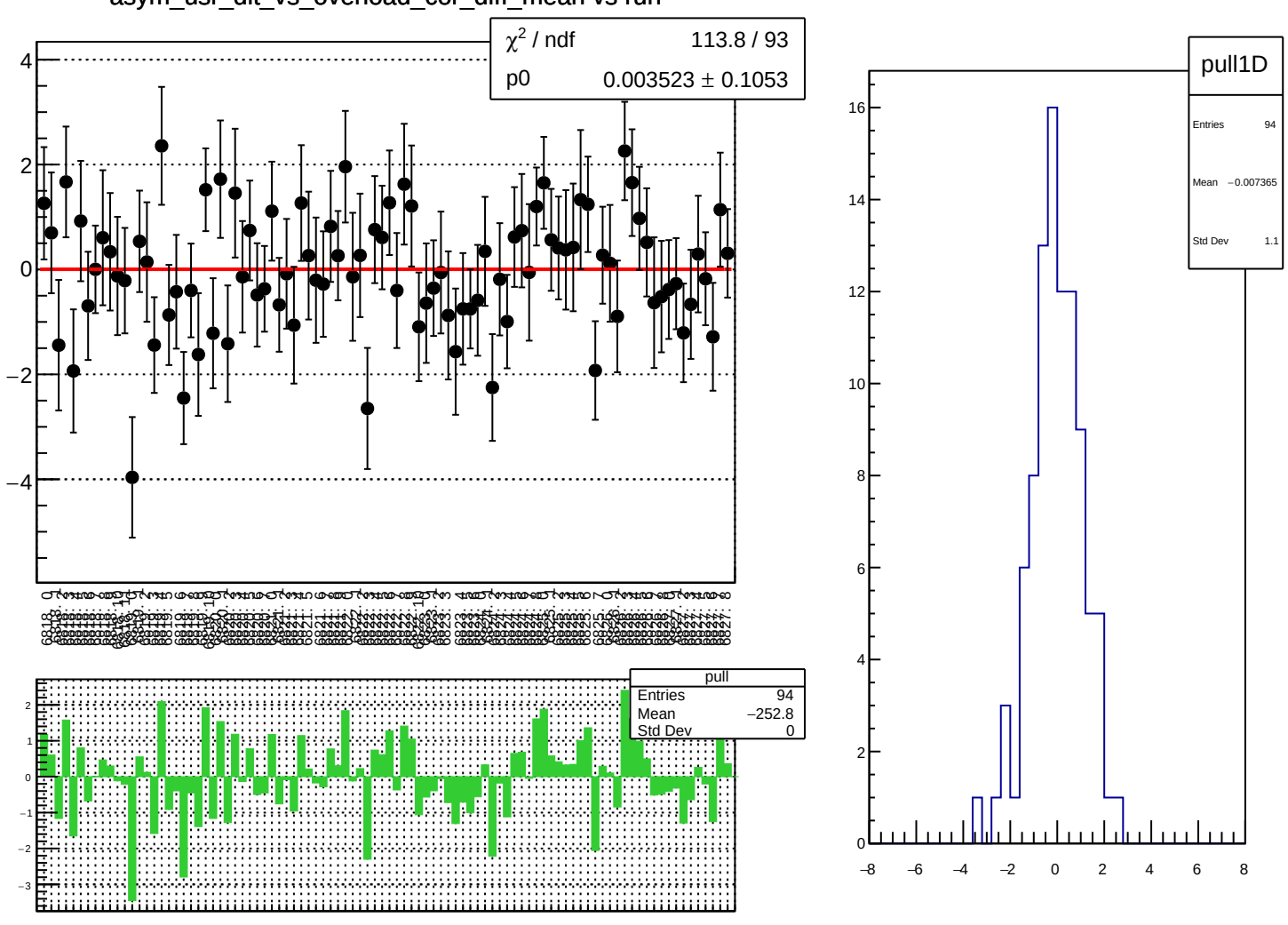

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 90.97 / 93
p0 0.05502 ± 0.07574
pull
Entries 94
Mean 78.72
Std Dev 48.64
pull1D
Entries 94
Mean 0.01438
Std Dev 0.9836

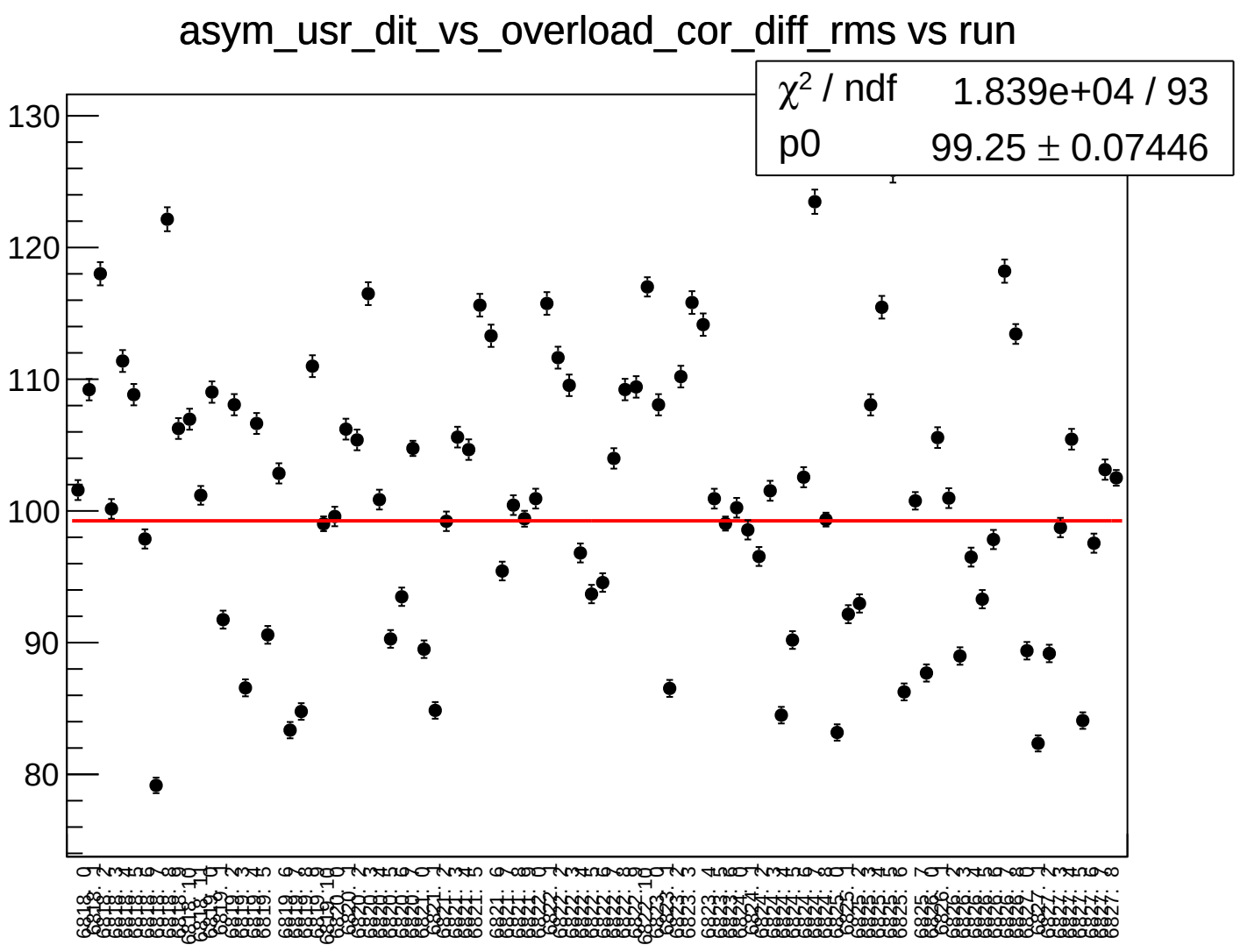

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 3.951e+04 / 93
p0 70.96 ± 0.05356
100
90
80
70
60
50

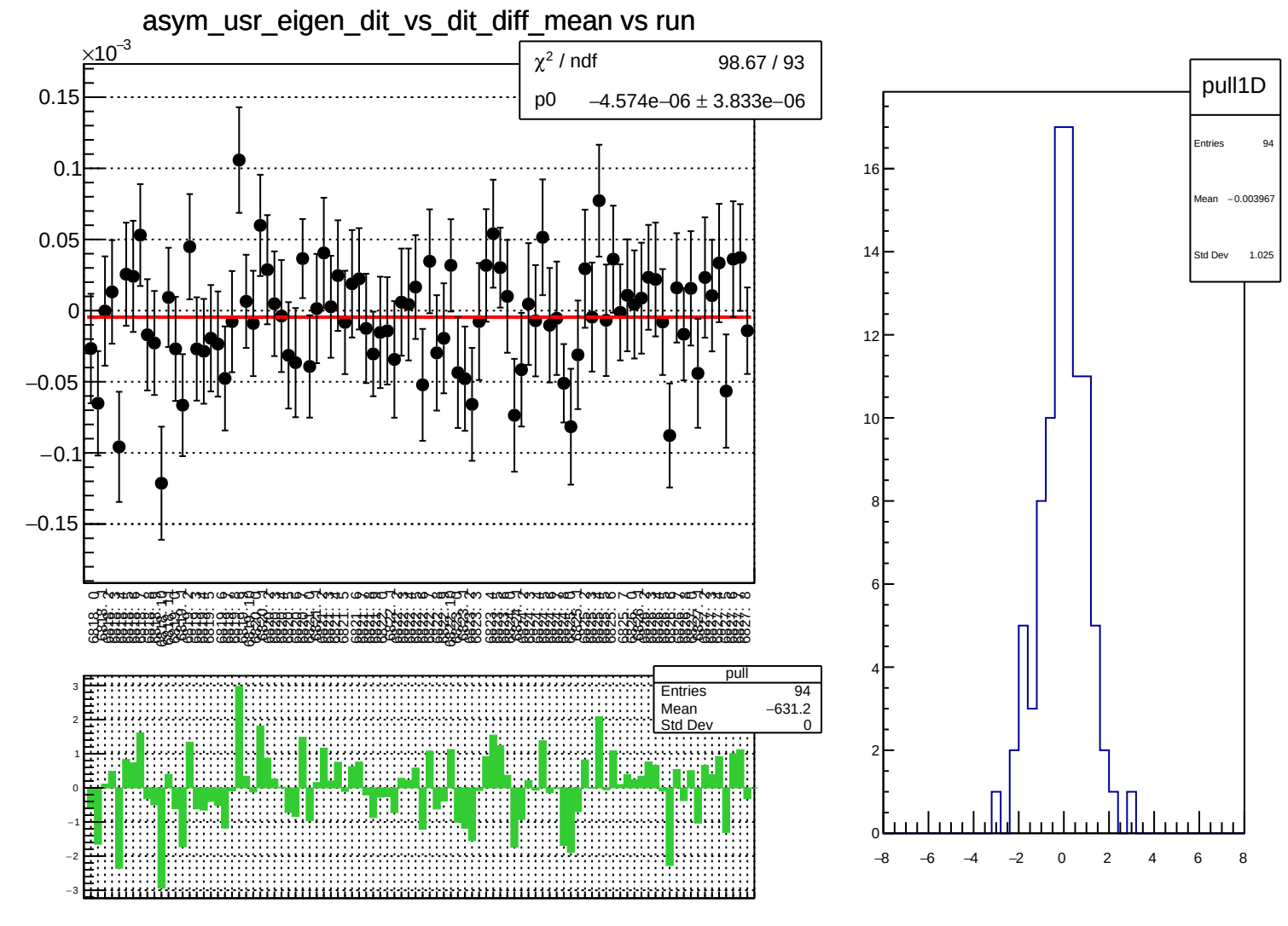

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.97 / 93
p0 0.05502 ± 0.07574
pull
Entries 94
Mean 78.72
Std Dev 48.64

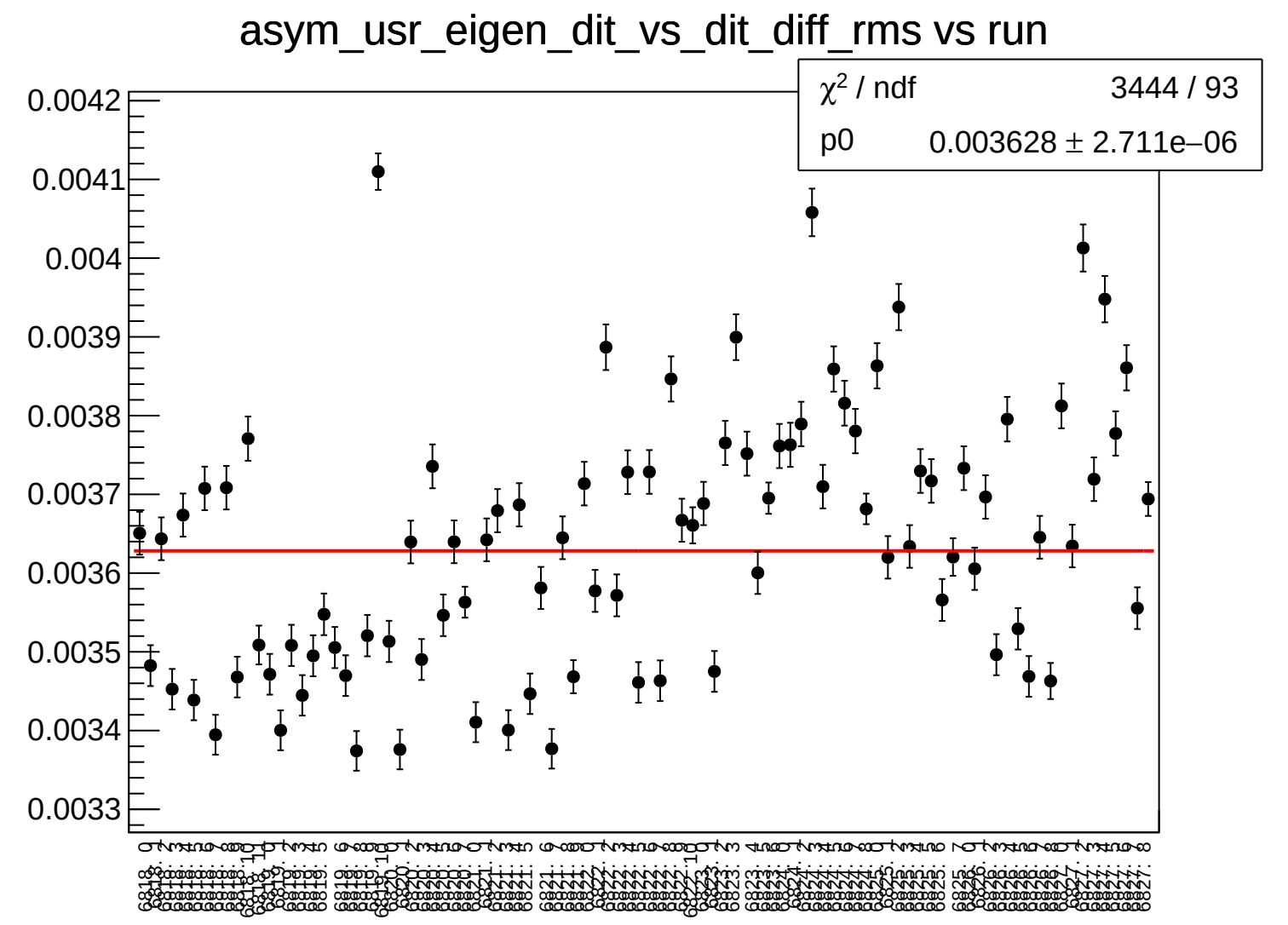

pull1D
Entries 94
Mean 0.01438
Std Dev 0.9836


asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.951e+04 / 93
p0 70.96 ± 0.05356
100
90
80
70
60
50

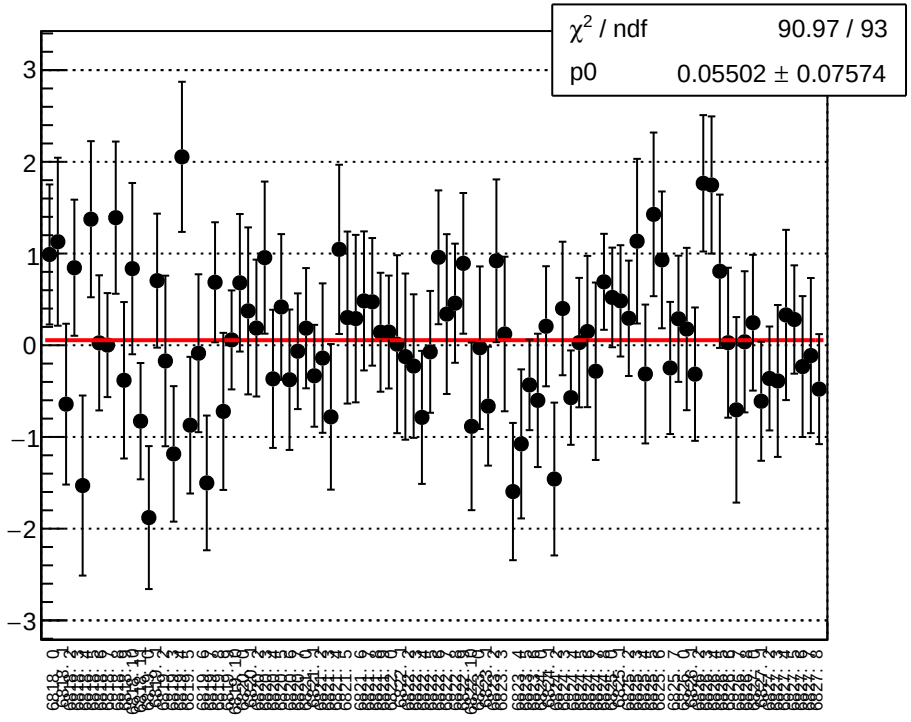

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.8 / 93
p0 0.003523 ± 0.1053
pull
Entries 94
Mean −252.8
Std Dev 0
pull1D
Entries 94
Mean −0.007365
Std Dev 1.1

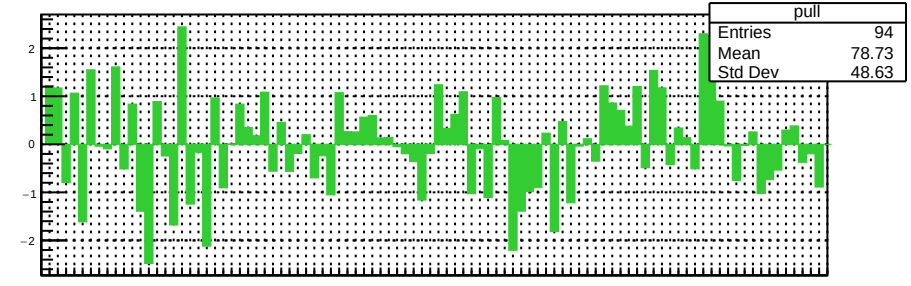

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ^2 / ndf 1.839e+04 / 93
p0 99.25 ± 0.07446
130
120
110
100
90
80

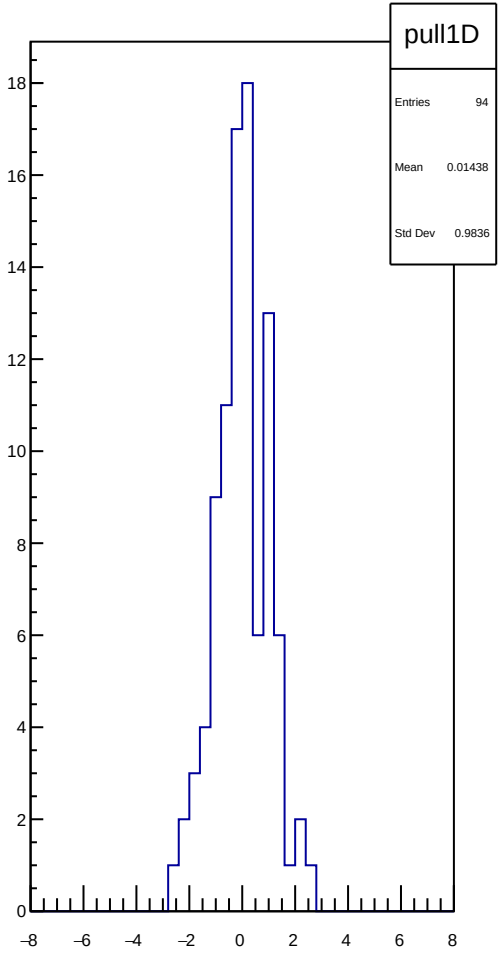

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.67 / 93
p0 −4.574e−06 ± 3.833e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −631.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003967
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

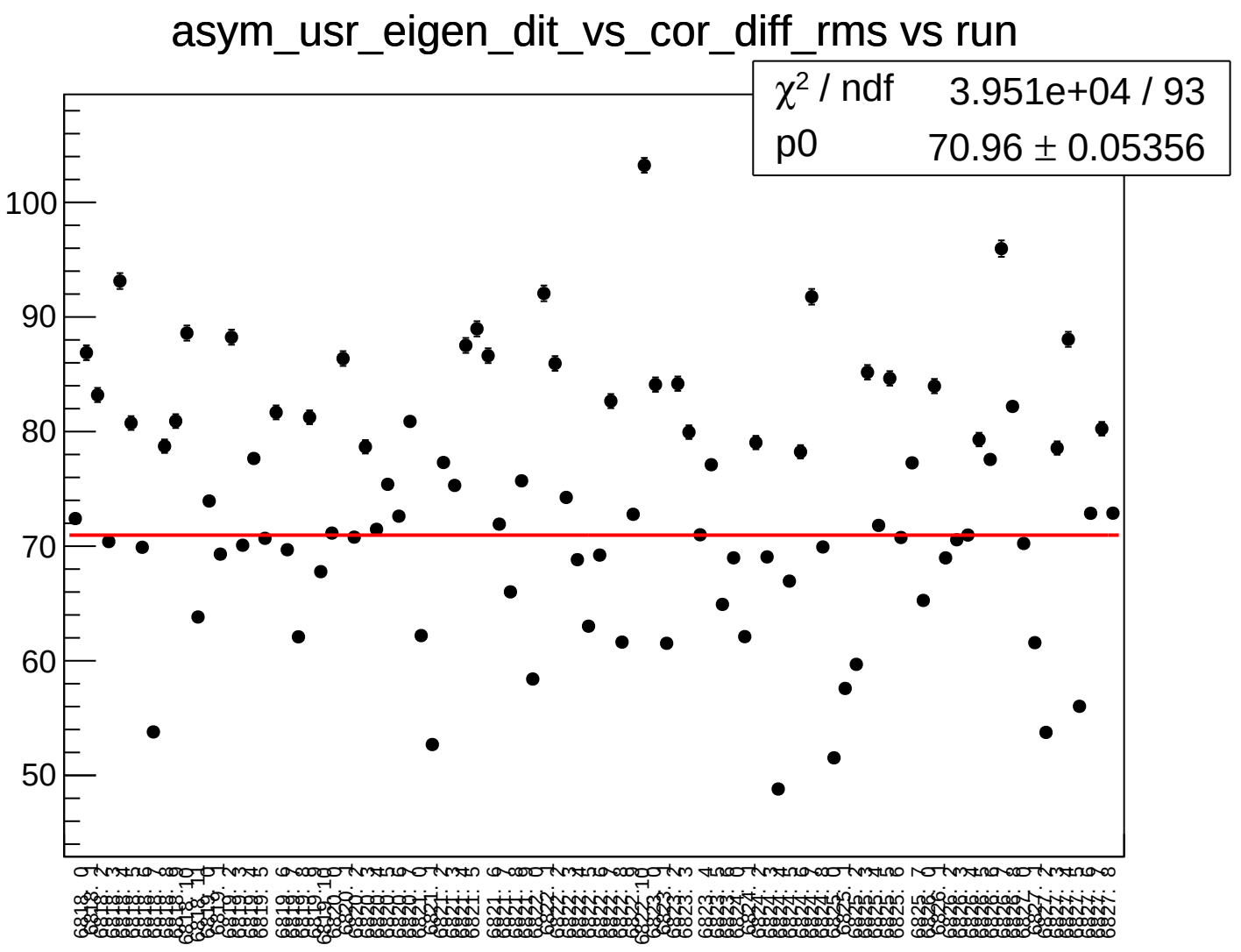

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3444 / 93
p0 0.003628 ± 2.711e−06
0.0042
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033

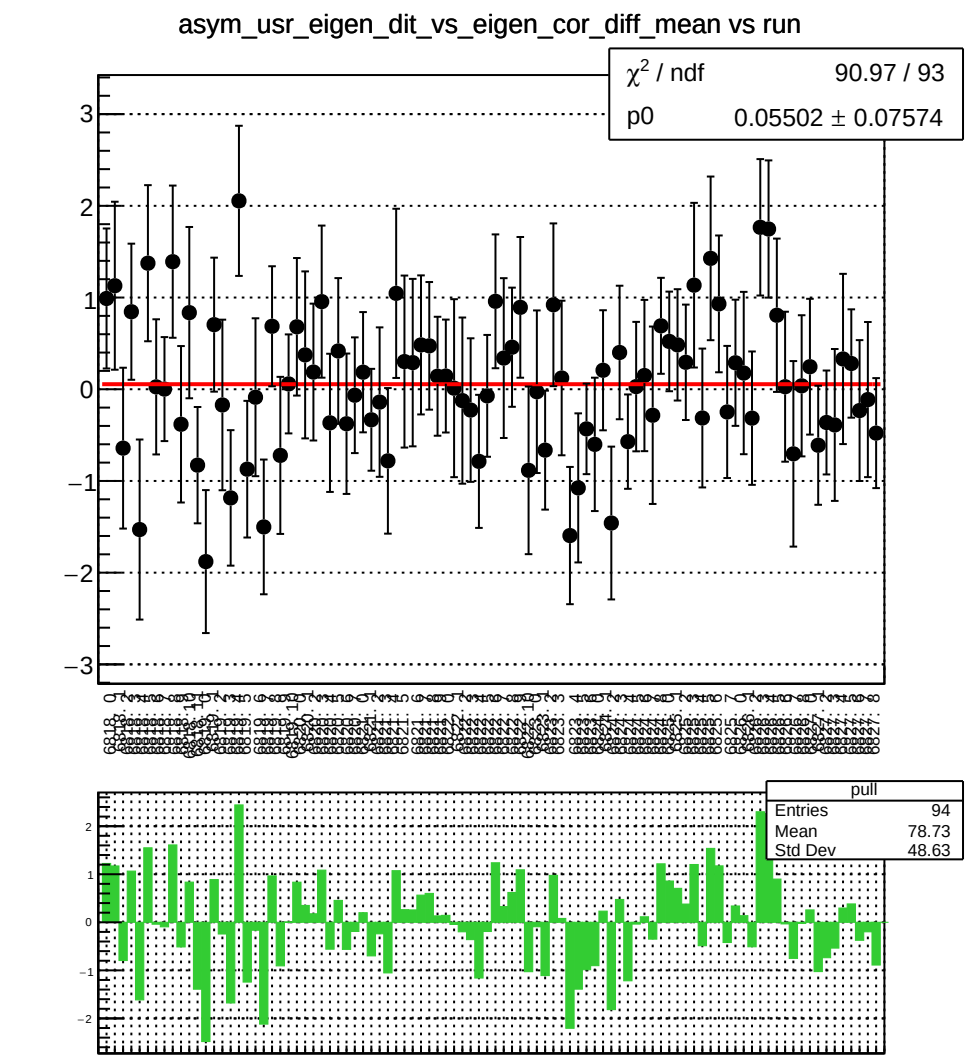
asym_usr_eigen_dit_vs_cor_diff_mean vs run

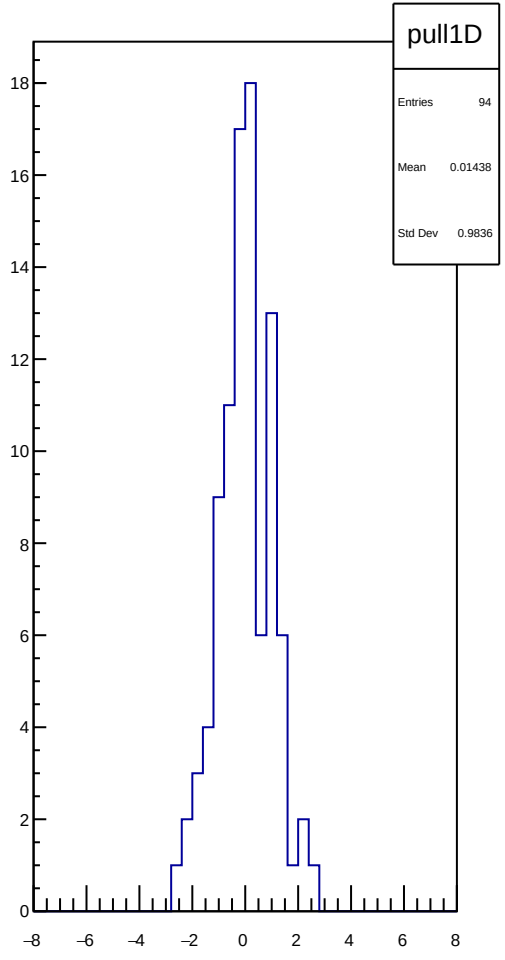


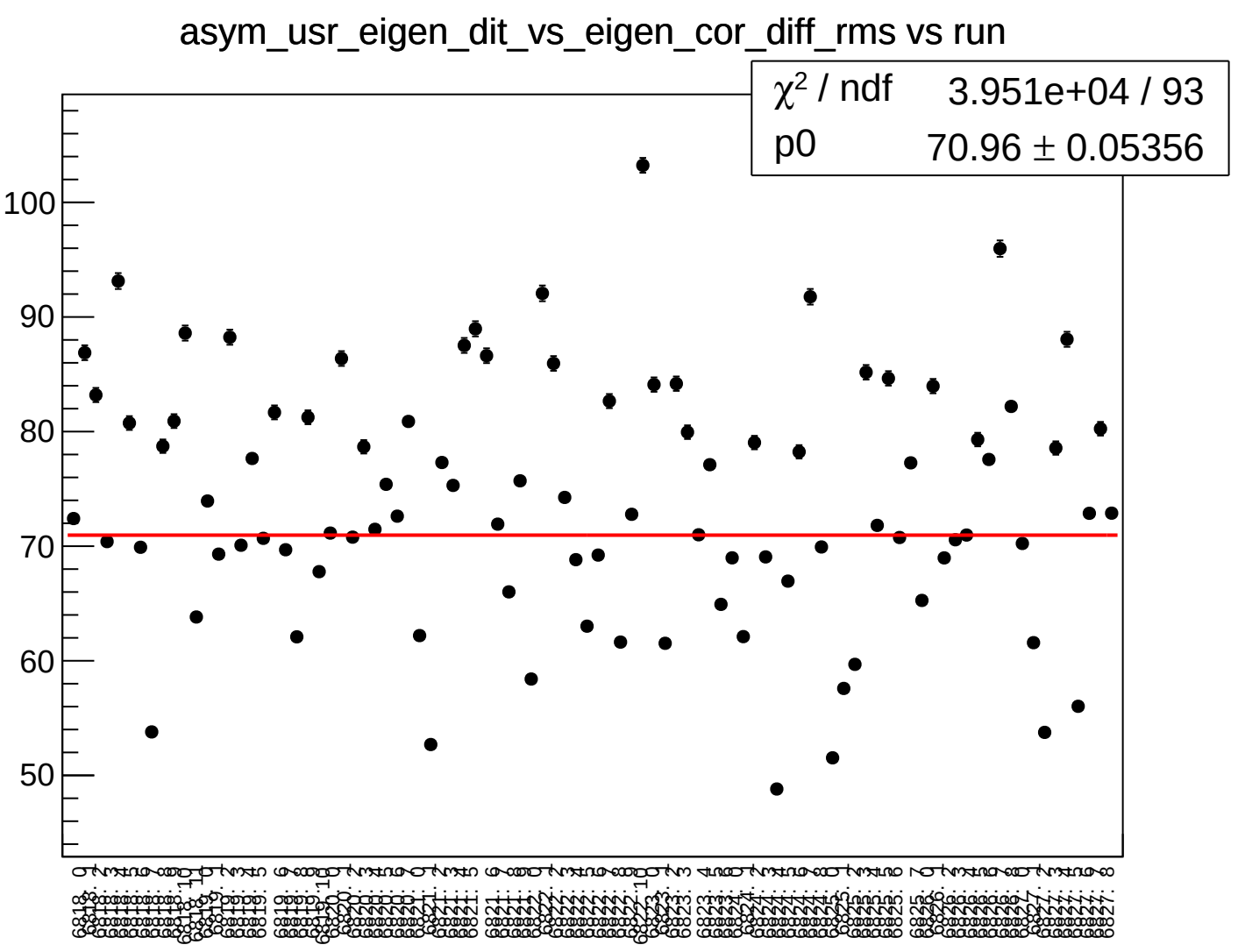


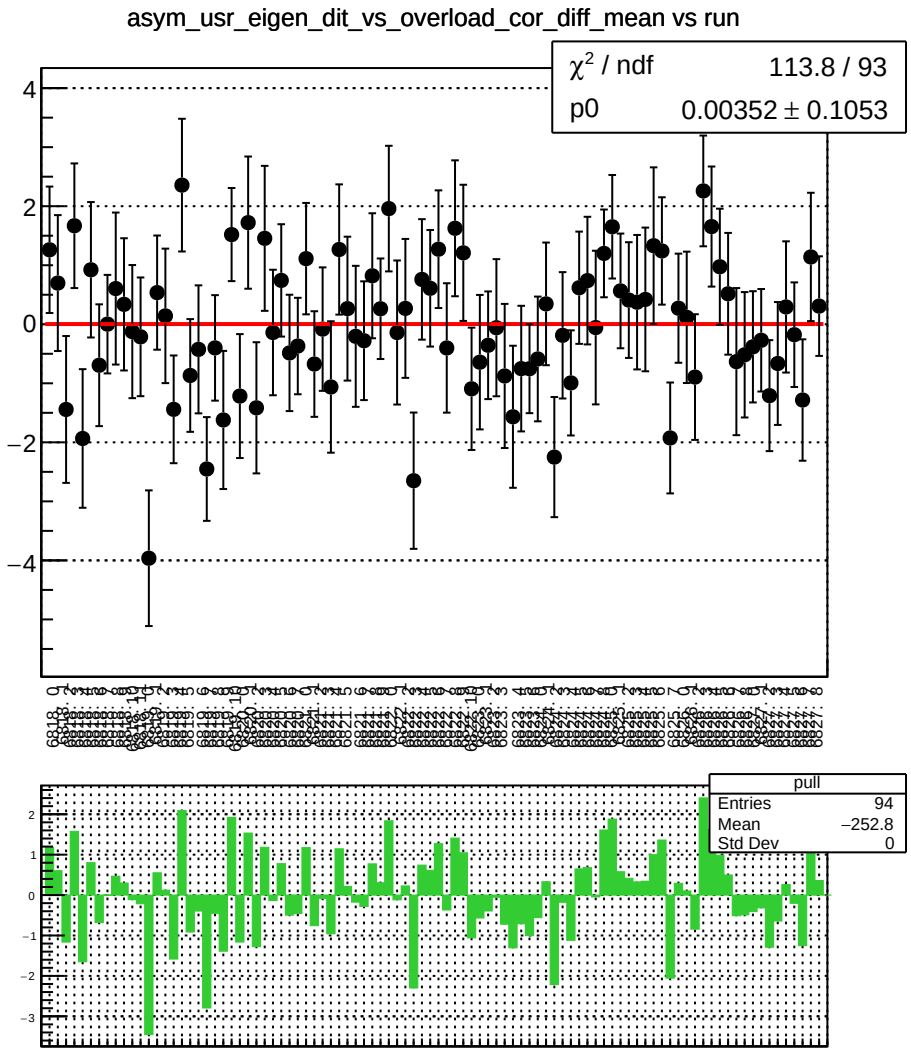


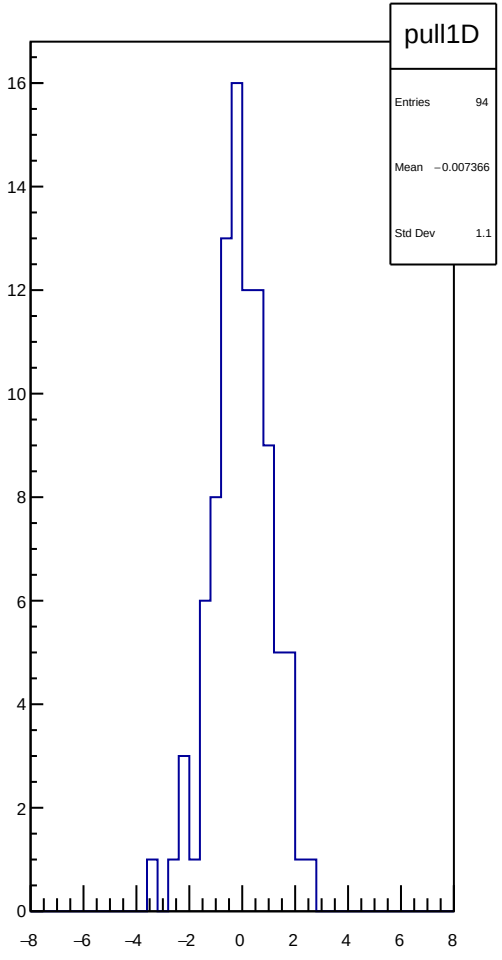

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.951e+04 / 93
p0 70.96 ± 0.05356
100
90
80
70
60
50

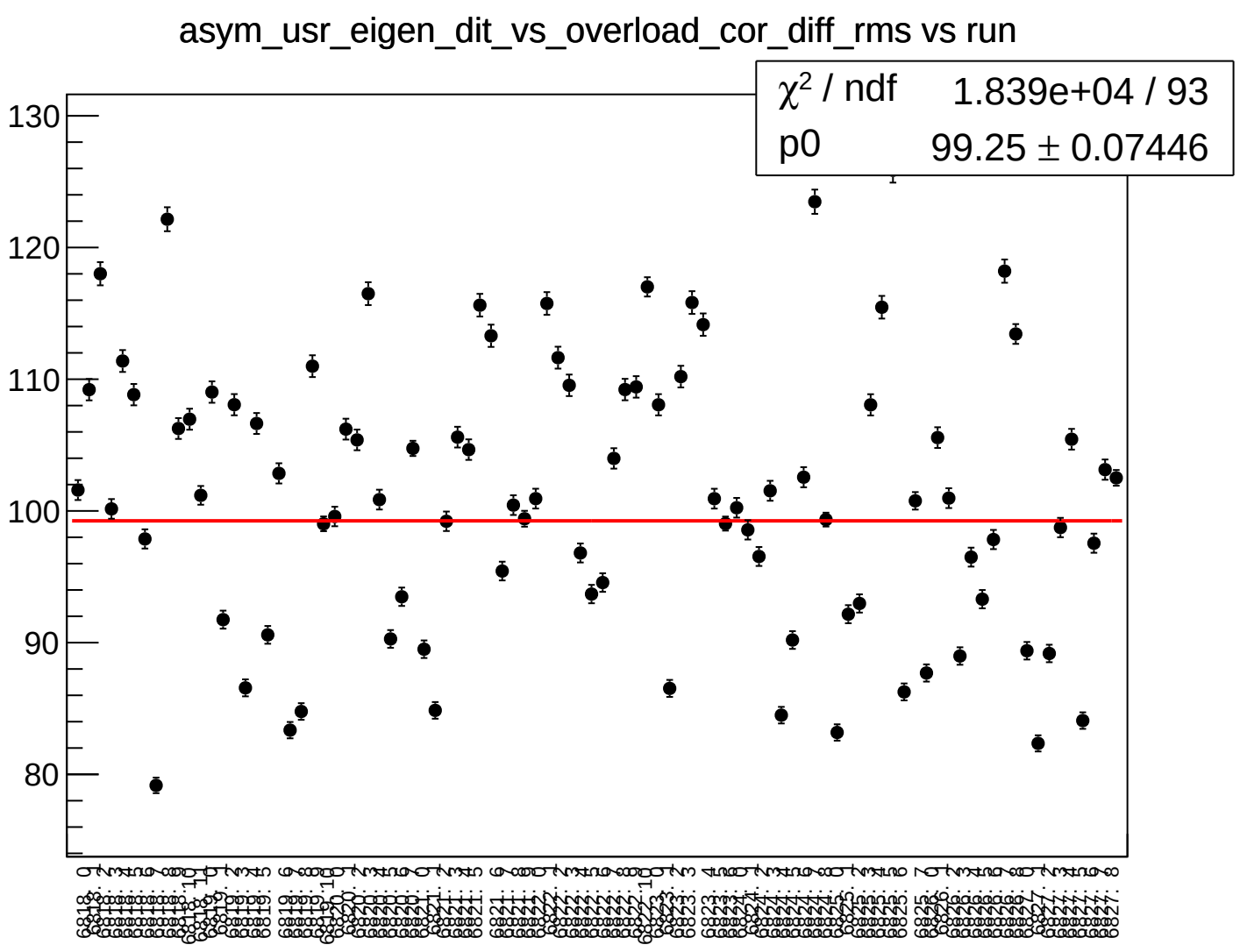

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.97 / 93
p0 0.05502 ± 0.07574
pull
Entries 94
Mean 78.73
Std Dev 48.63

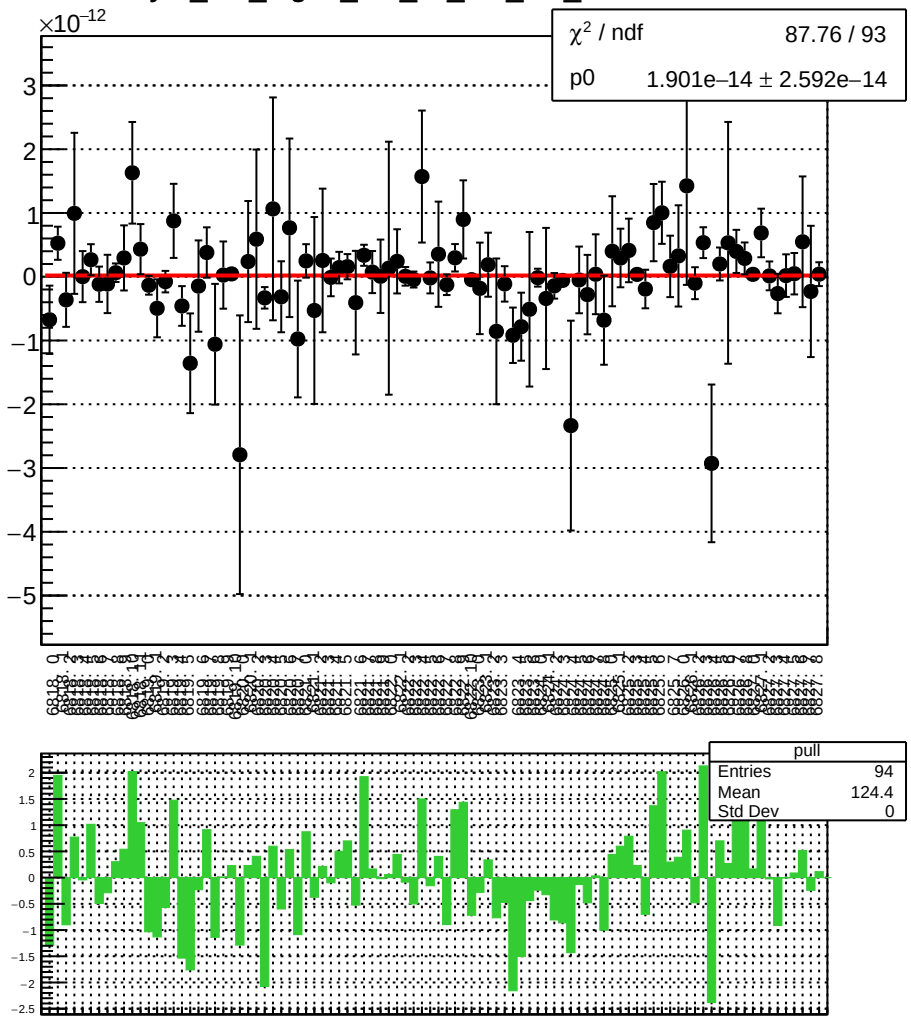

pull1D
Entries 94
Mean 0.01438
Std Dev 0.9836

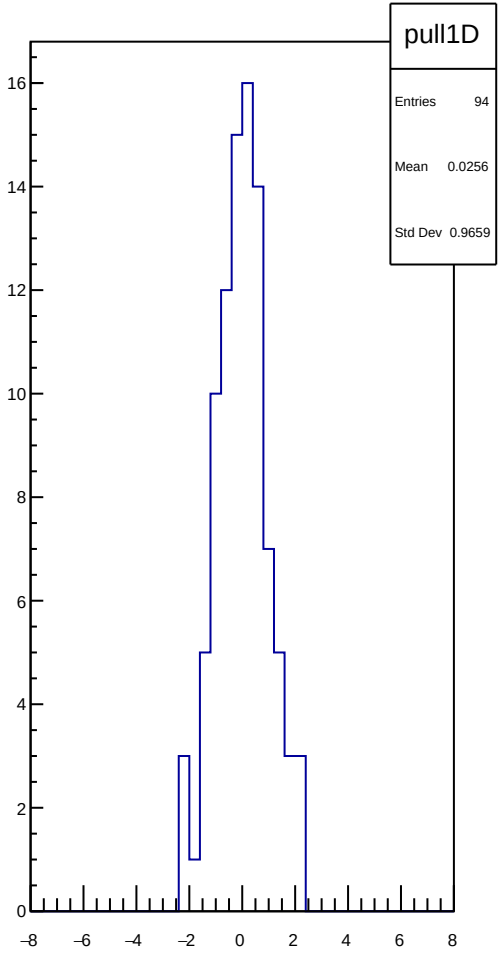

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.951e+04 / 93
p0 70.96 ± 0.05356
100
90
80
70
60
50

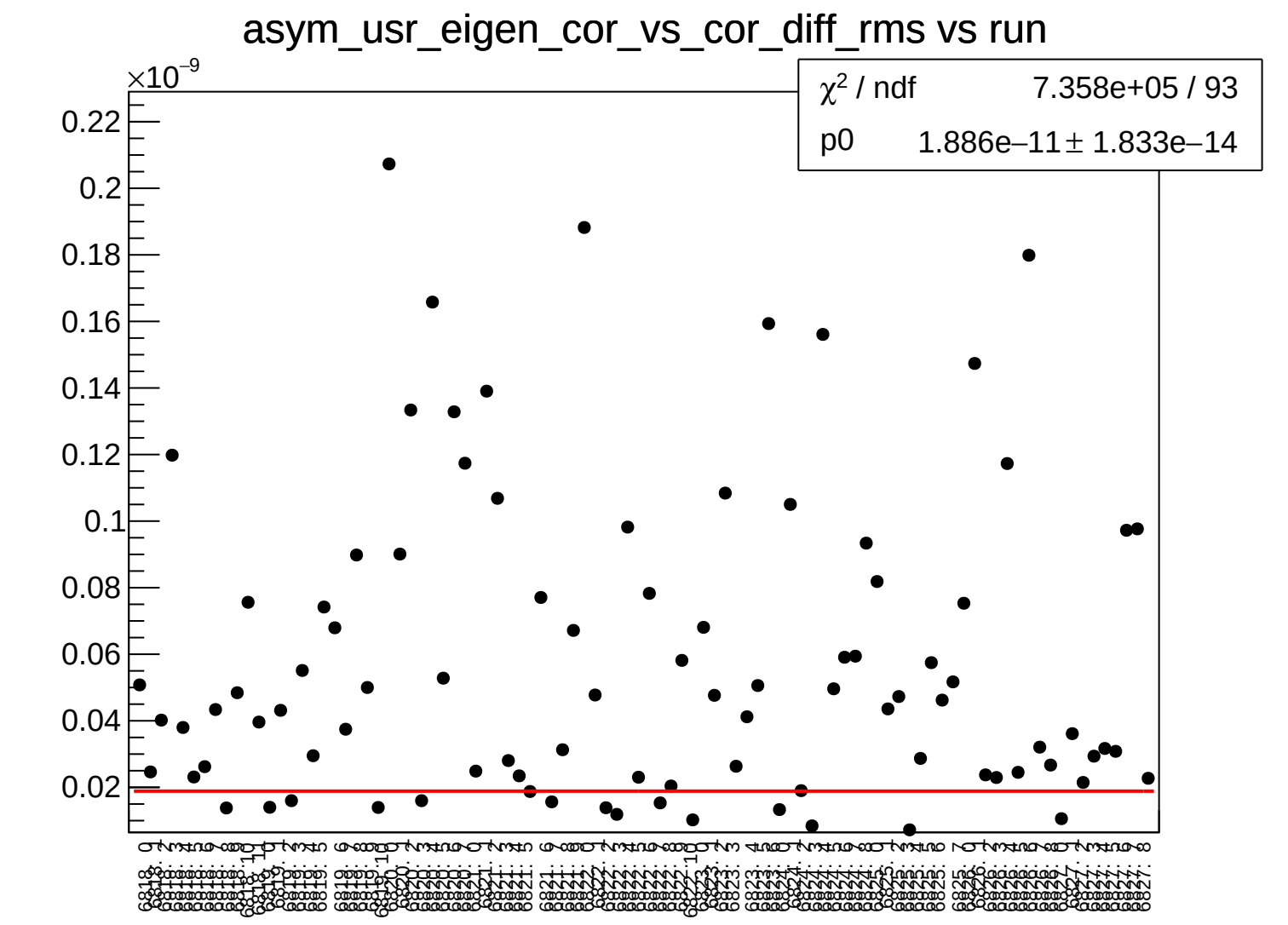

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 113.8 / 93
p0 0.00352 ± 0.1053
pull
Entries 94
Mean −252.8
Std Dev 0


pull1D
Entries 94
Mean −0.007366
Std Dev 1.1

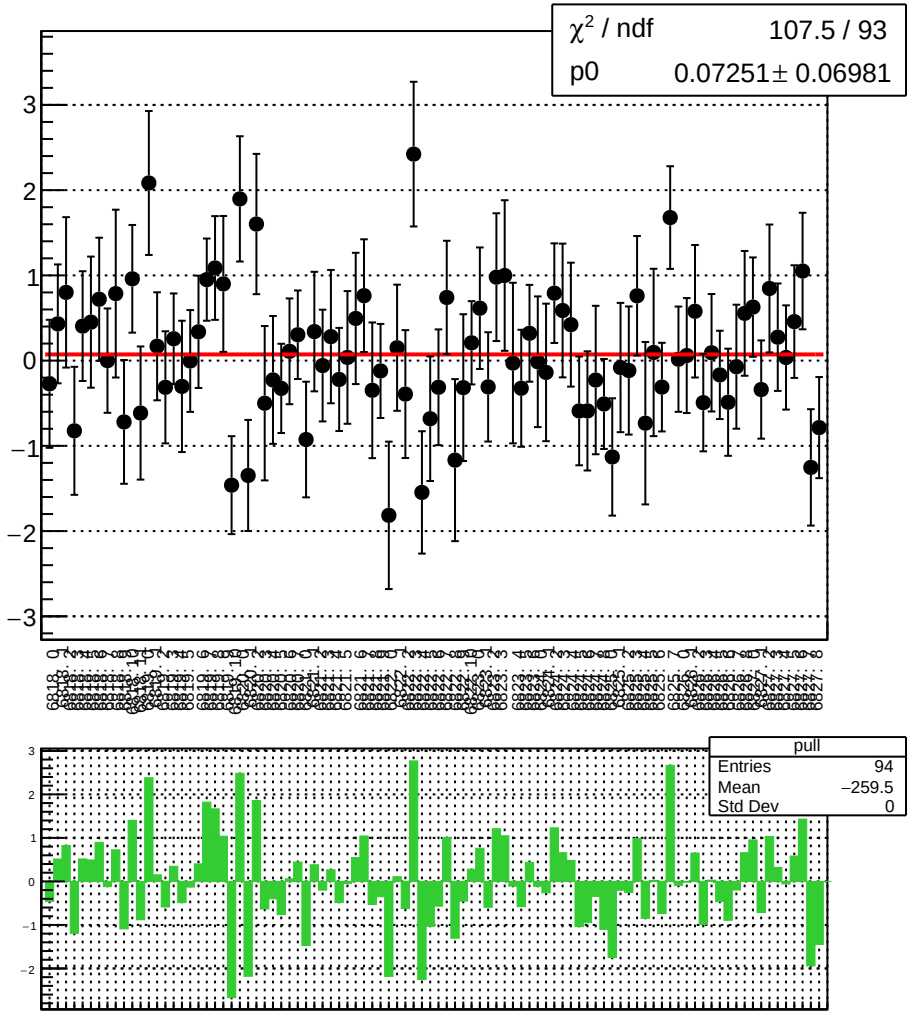

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.839e+04 / 93
p0 99.25 ± 0.07446
130
120
110
100
90
80

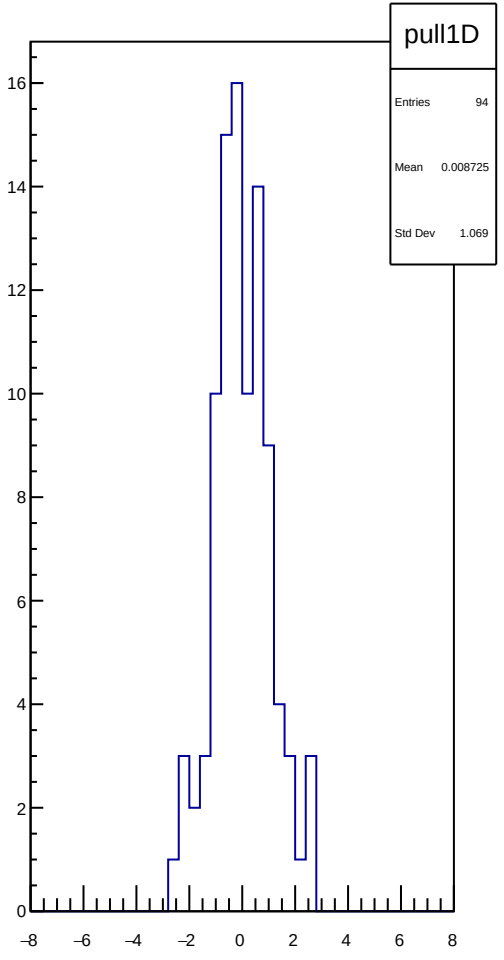

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.76 / 93
p0 1.901e−14 ± 2.592e−14
pull
Entries 94
Mean 124.4
Std Dev 0

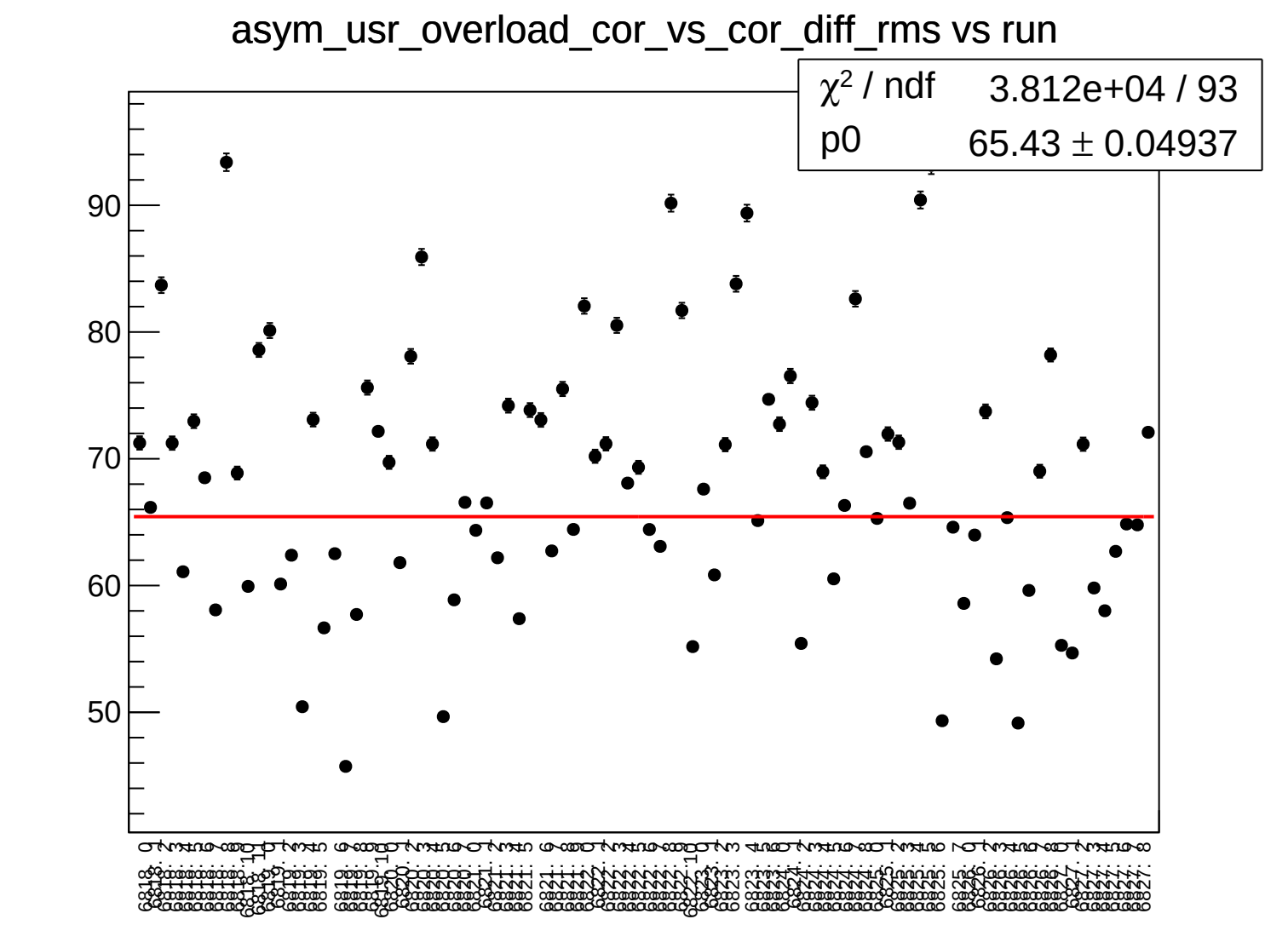

pull1D
Entries 94
Mean 0.0256
Std Dev 0.9659


asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.358e+05 / 93
p0 1.886e−11 ± 1.833e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

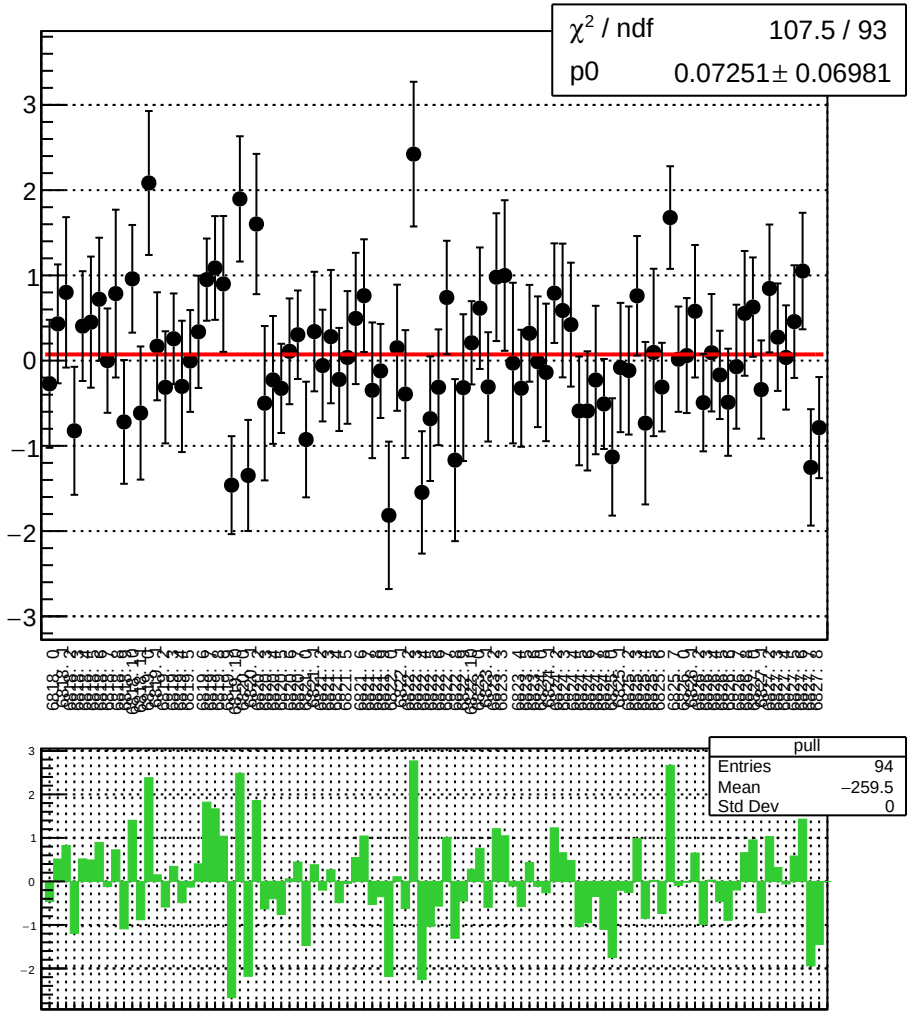
asym_usr_overload_cor_vs_cor_diff_mean vs run

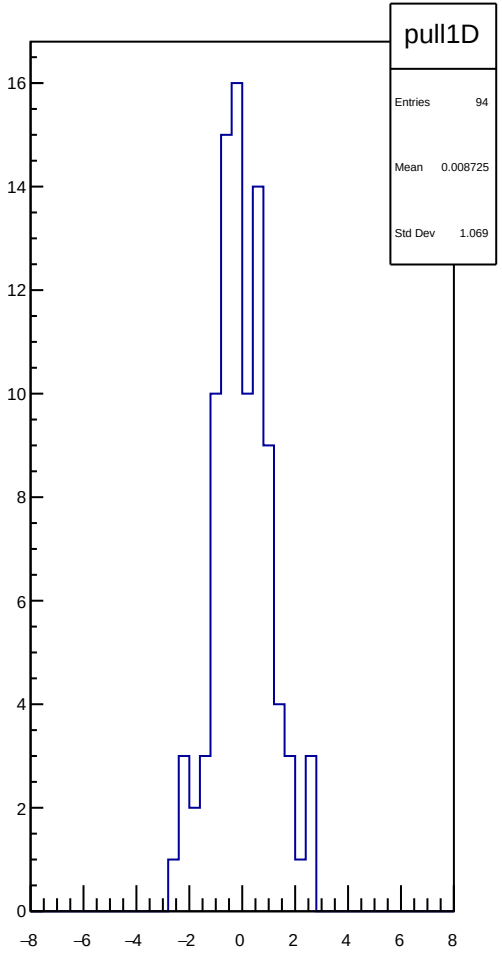


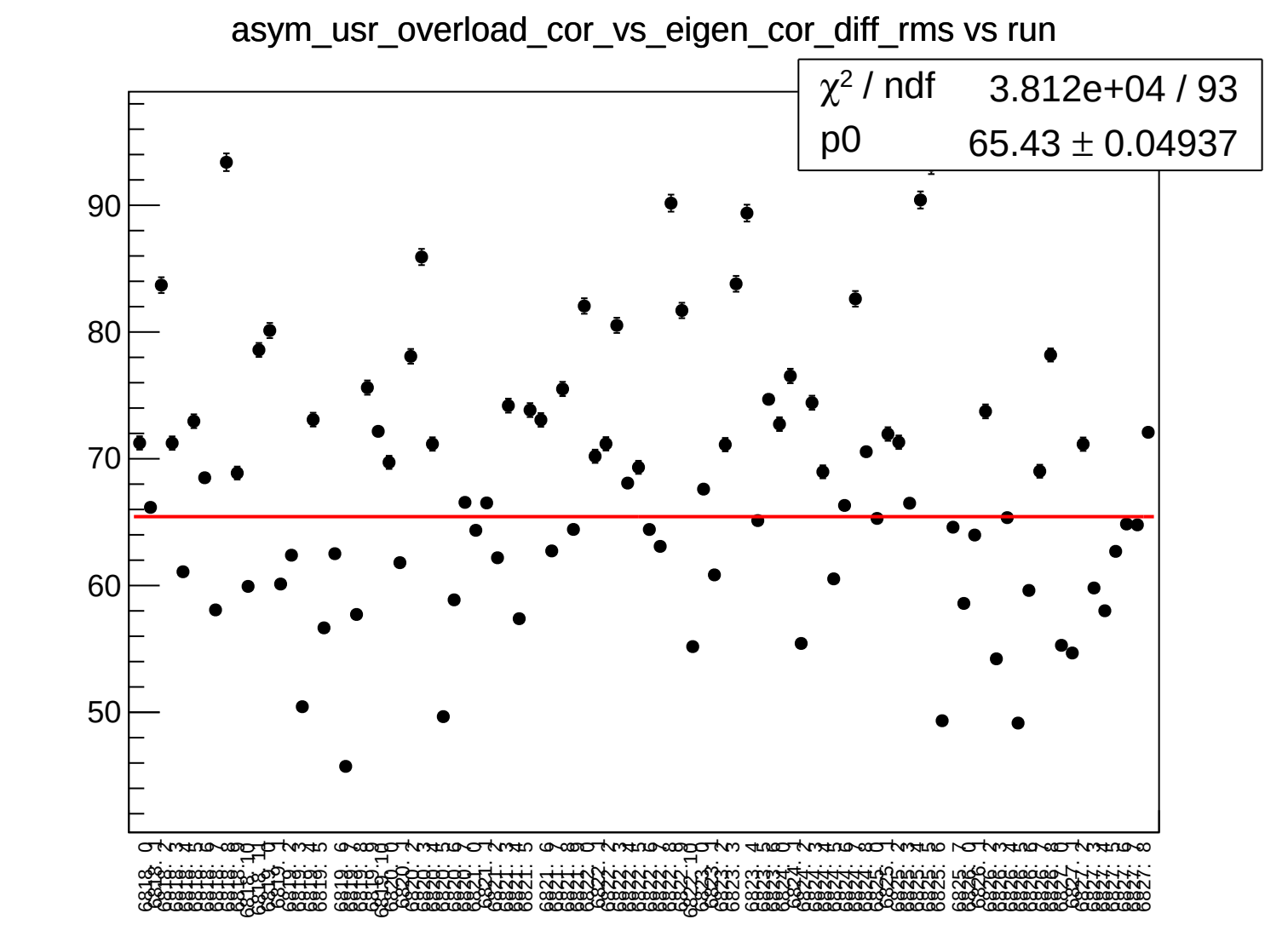


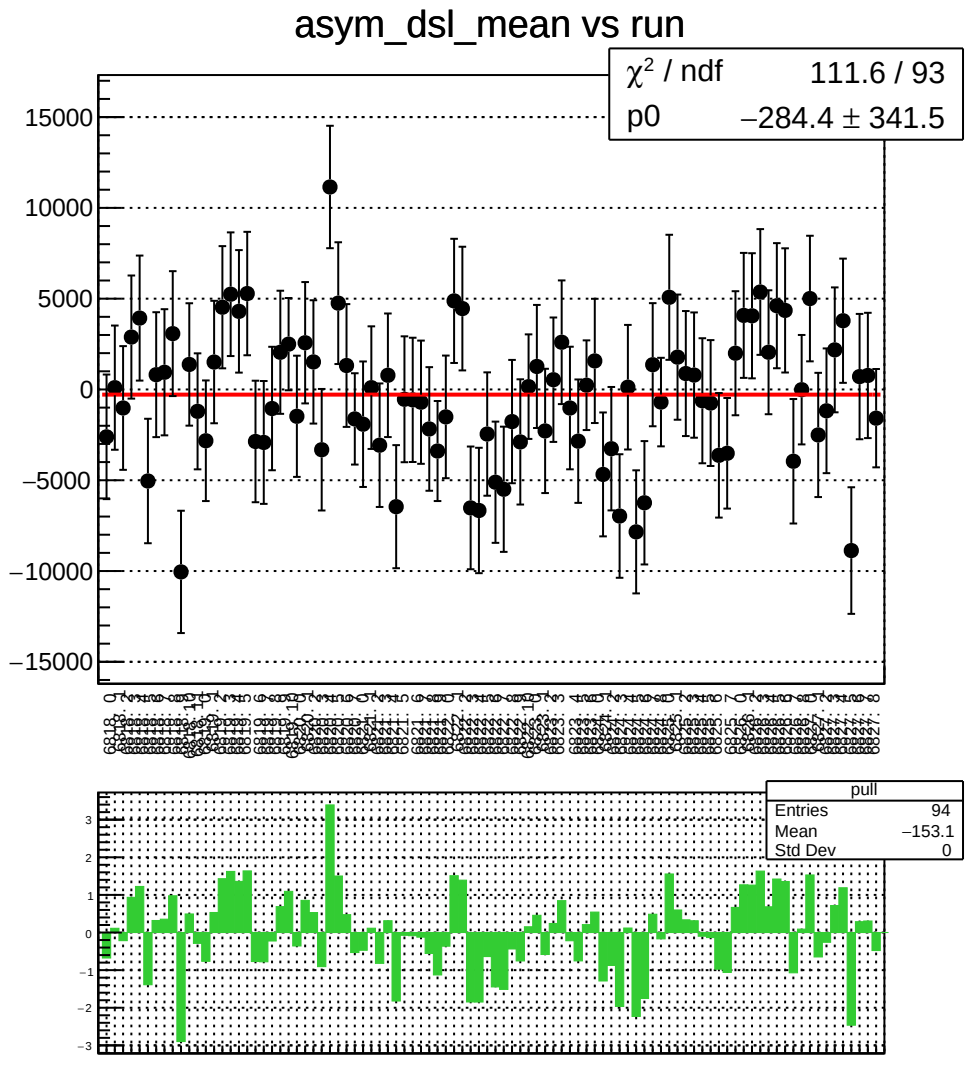

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 93
p0 65.43 ± 0.04937
90
80
70
60
50

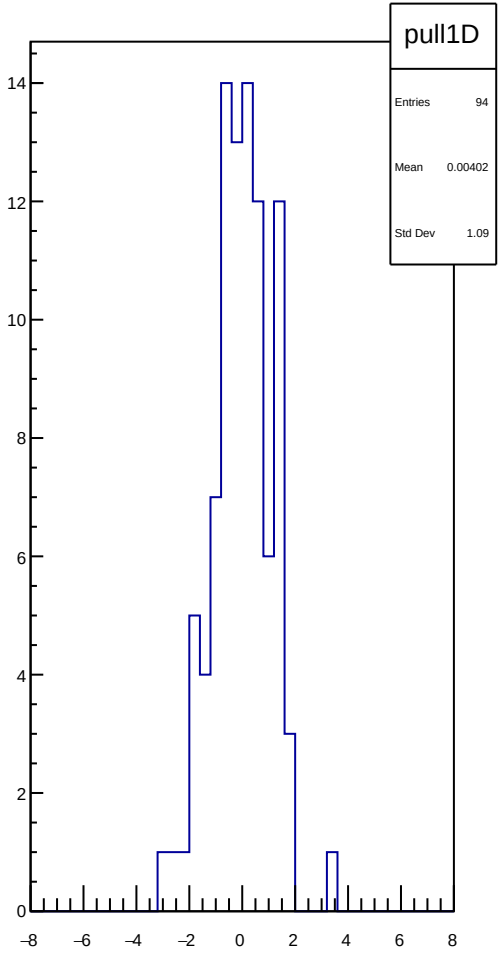
asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run

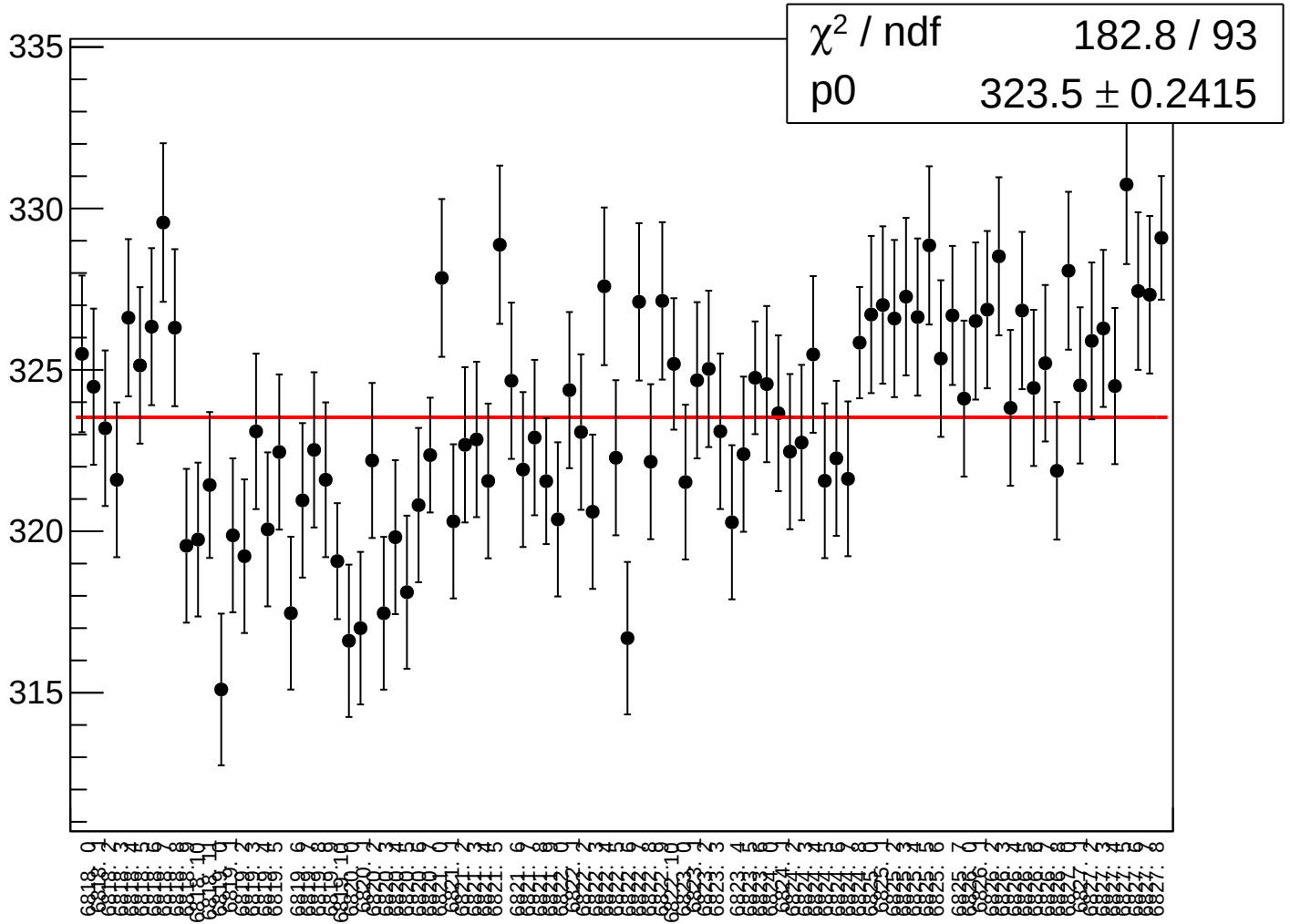


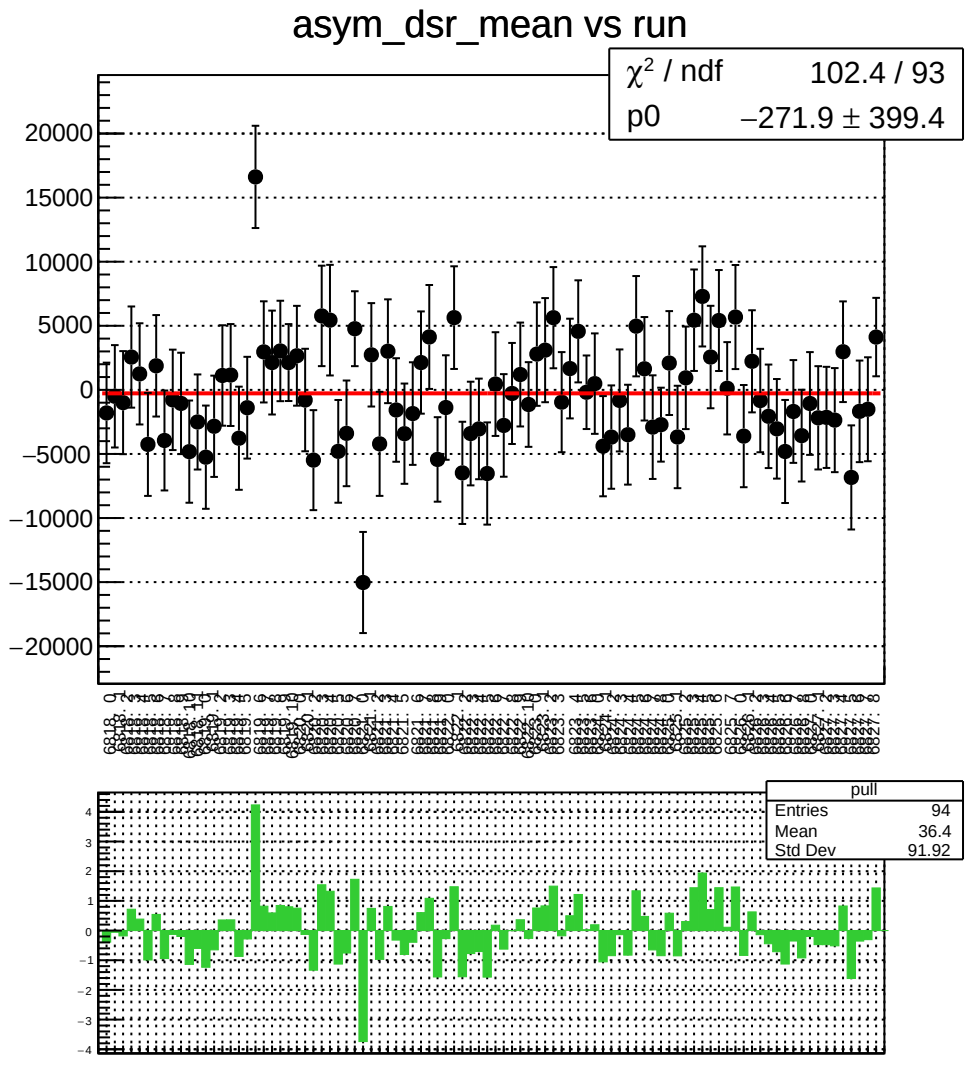


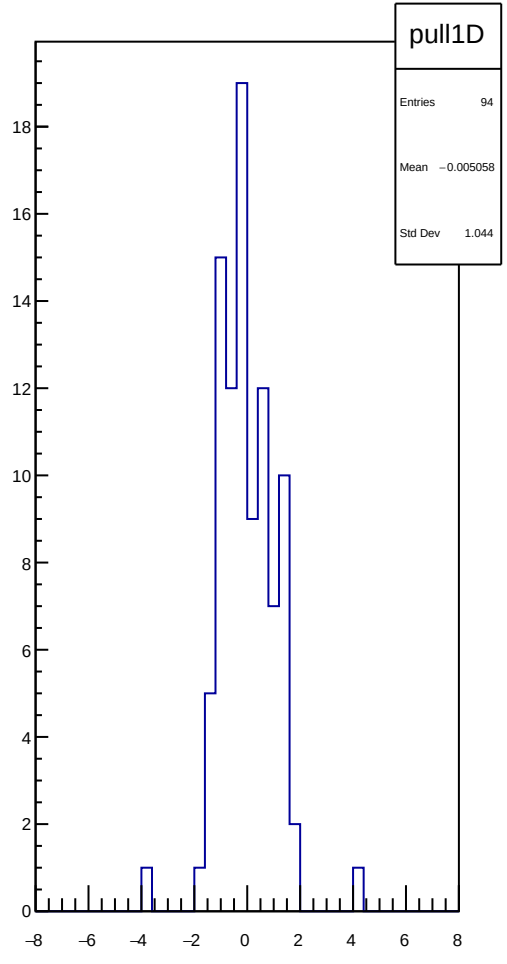

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.812e+04 / 93
p0 65.43 ± 0.04937
90
80
70
60
50

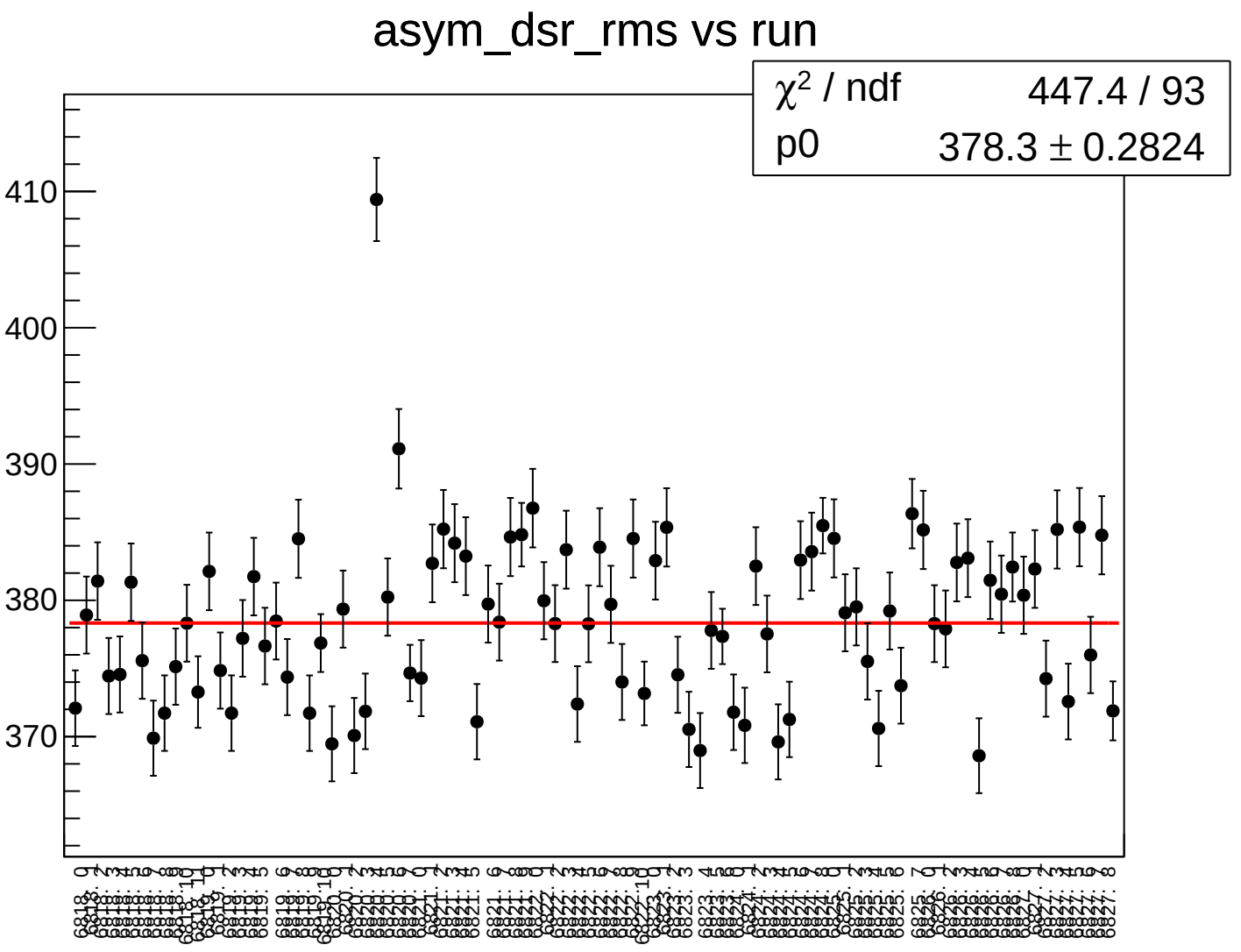

asym_dsl_mean vs run
χ² / ndf 111.6 / 93
p0 −284.4 ± 341.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −153.1
Std Dev 0
3
2
1
0
−1
−2
−3

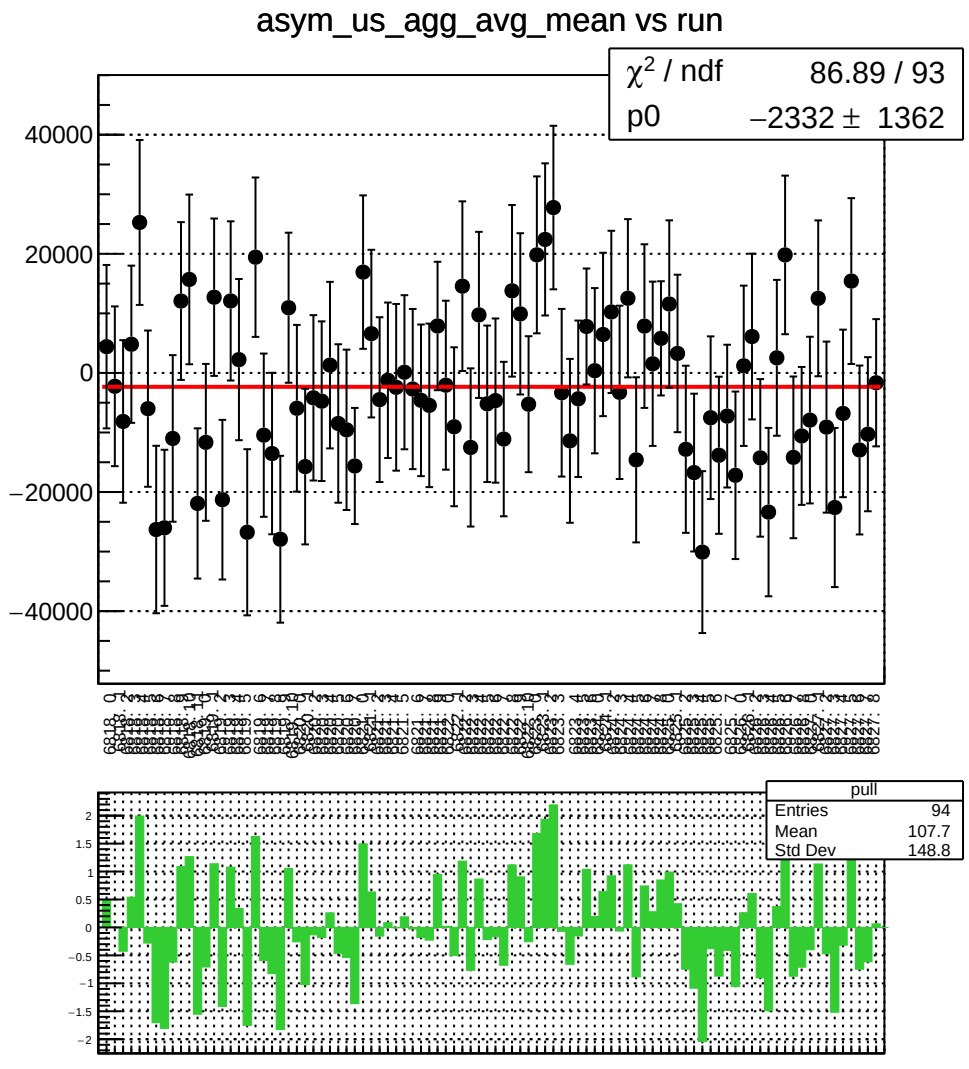

pull1D
Entries 94
Mean 0.00402
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

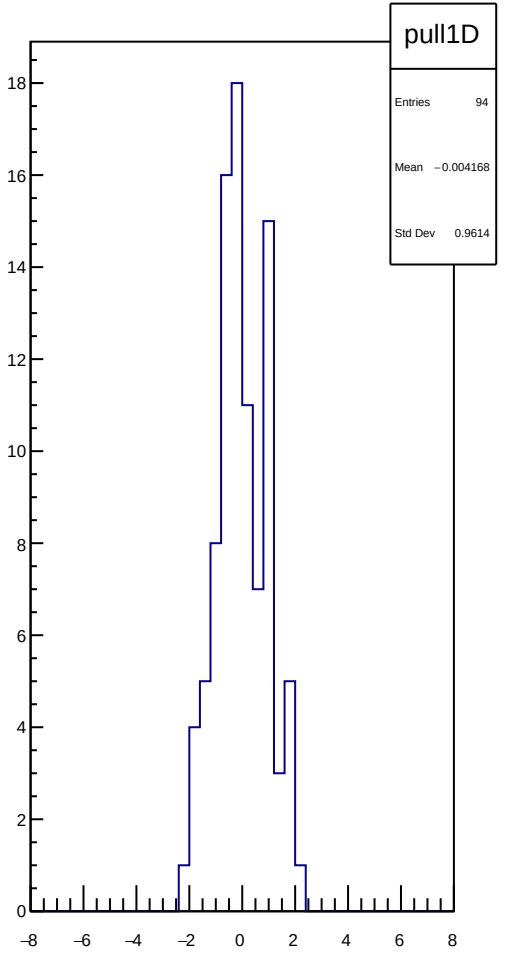

asym_dsl_rms vs run
χ² / ndf 182.8 / 93
p0 323.5 ± 0.2415
335
330
325
320
315

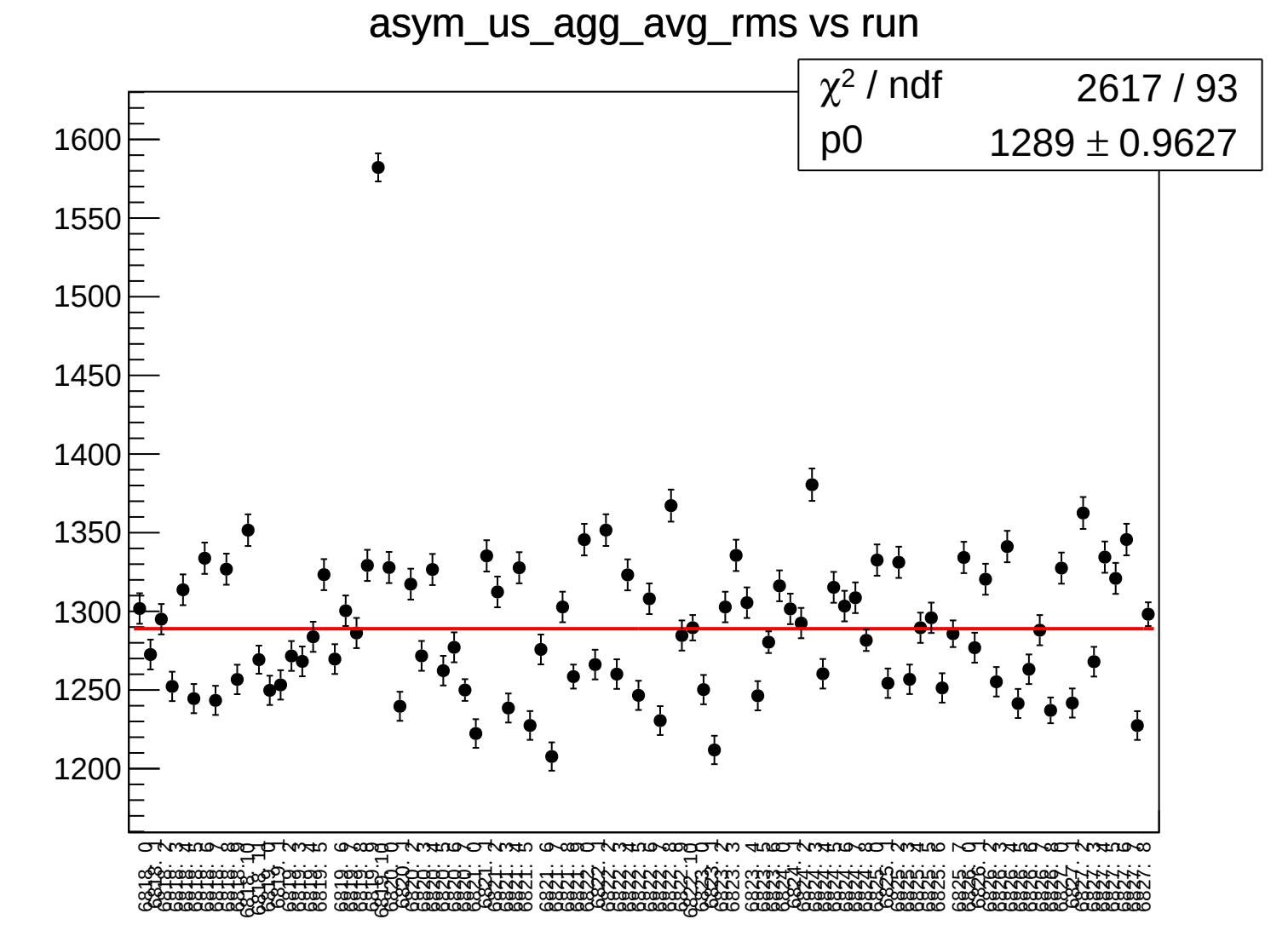

asym_dsr_mean vs run
χ² / ndf 102.4 / 93
p0 −271.9 ± 399.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean 36.4
Std Dev 91.92
4
3
2
1
0
−1
−2
−3
−4

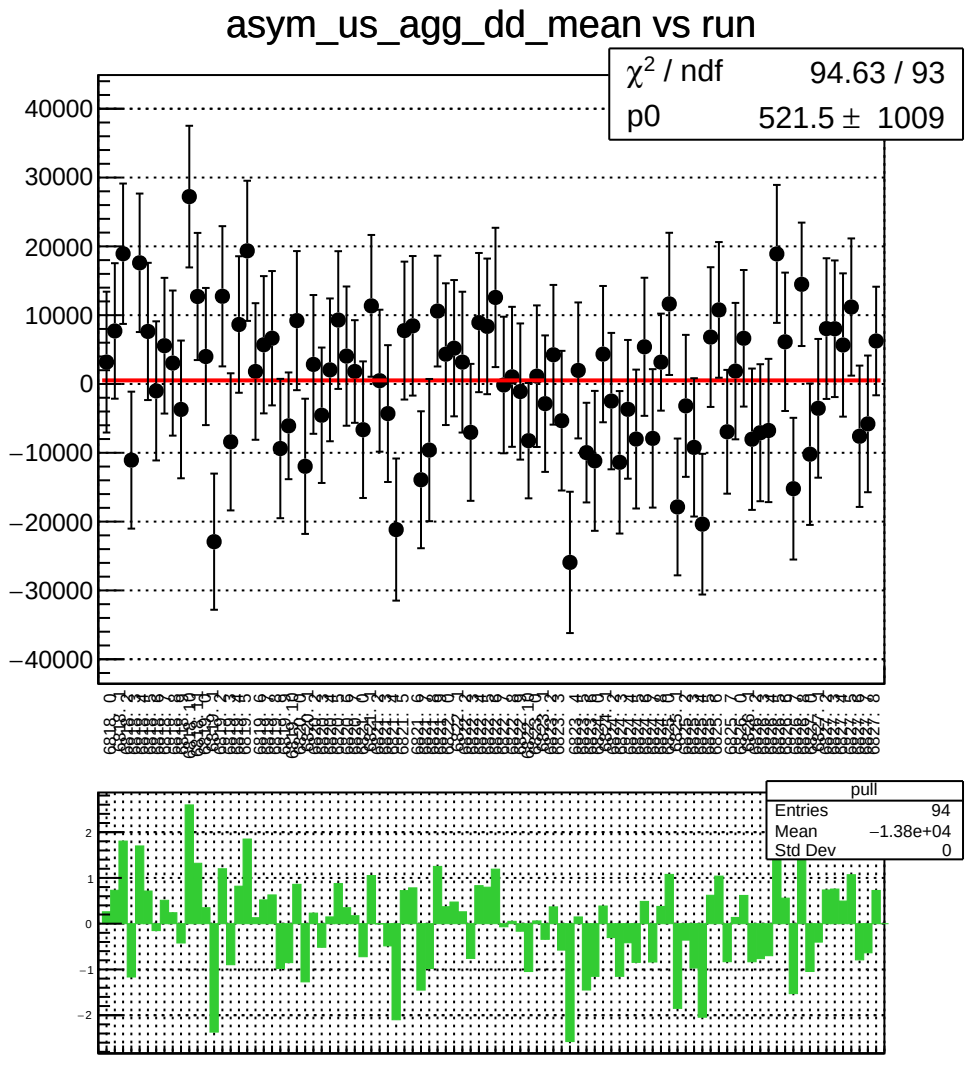

pull1D
Entries 94
Mean −0.005058
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

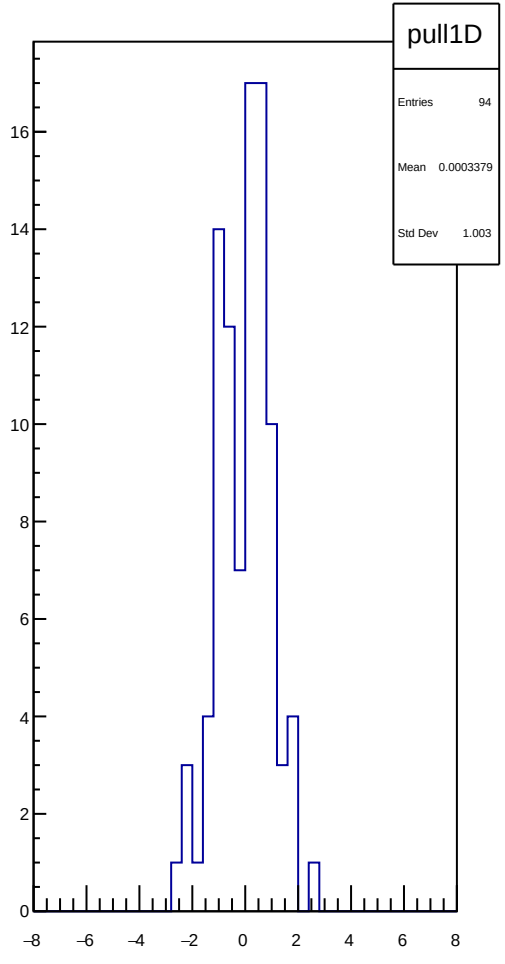

asym_dsr_rms vs run
χ² / ndf 447.4 / 93
p0 378.3 ± 0.2824
410
400
390
380
370

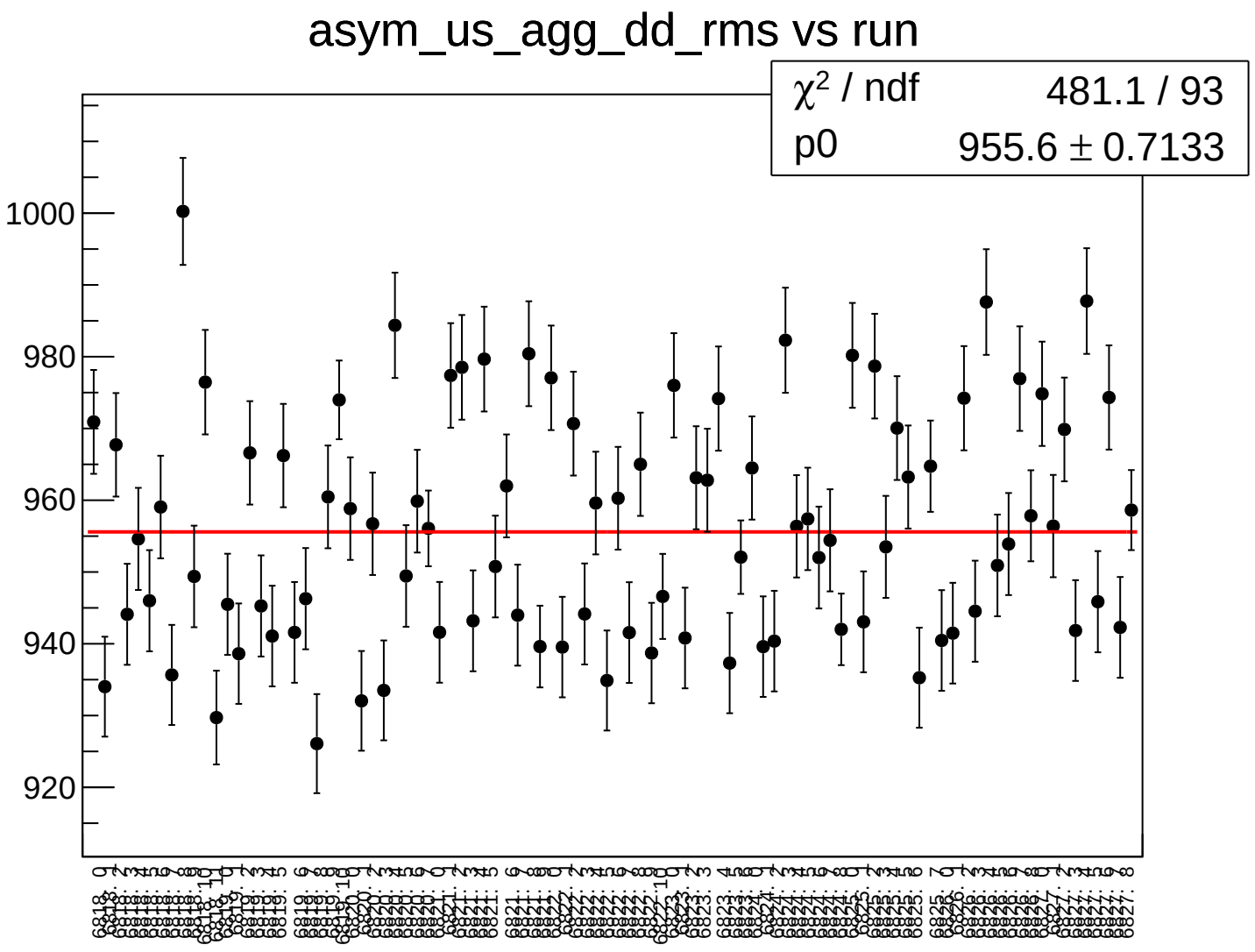

asym_us_agg_avg_mean vs run
χ² / ndf 86.89 / 93
p0 −2332 ± 1362
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 107.7
Std Dev 148.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

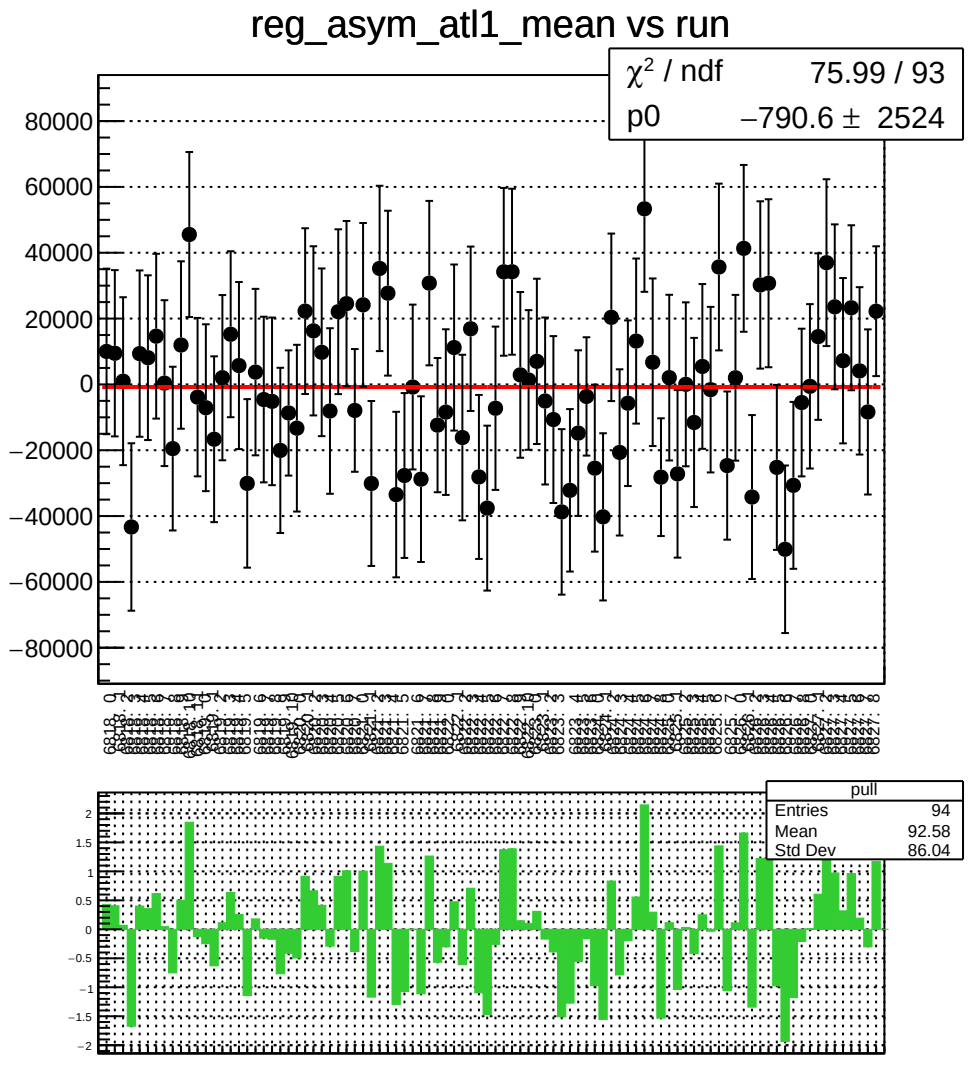

pull1D
Entries 94
Mean −0.004168
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

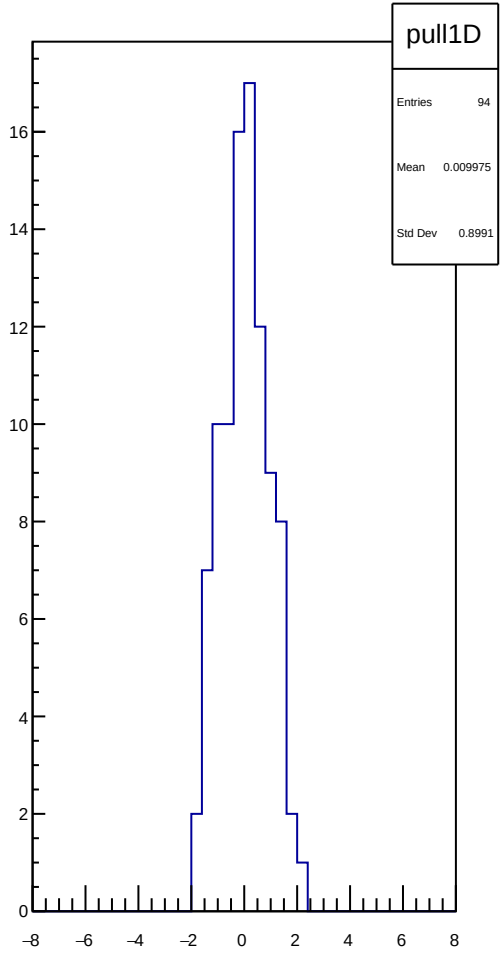

asym_us_agg_avg_rms vs run
χ² / ndf 2617 / 93
p0 1289 ± 0.9627
1600
1550
1500
1450
1400
1350
1300
1250
1200

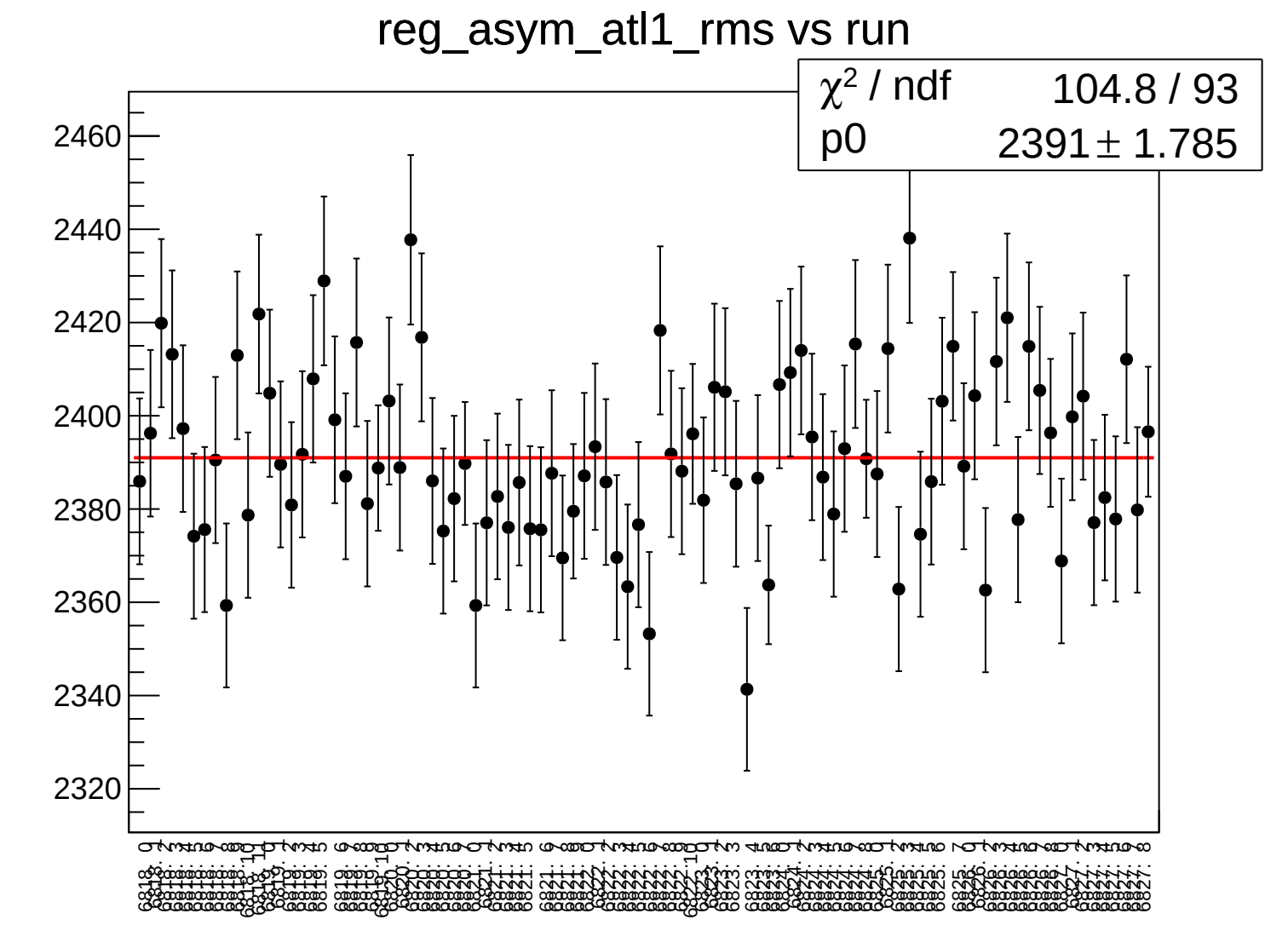

asym_us_agg_dd_mean vs run
χ² / ndf 94.63 / 93
p0 521.5 ± 1009
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −1.38e+04
Std Dev 0
2
1
0
−1
−2

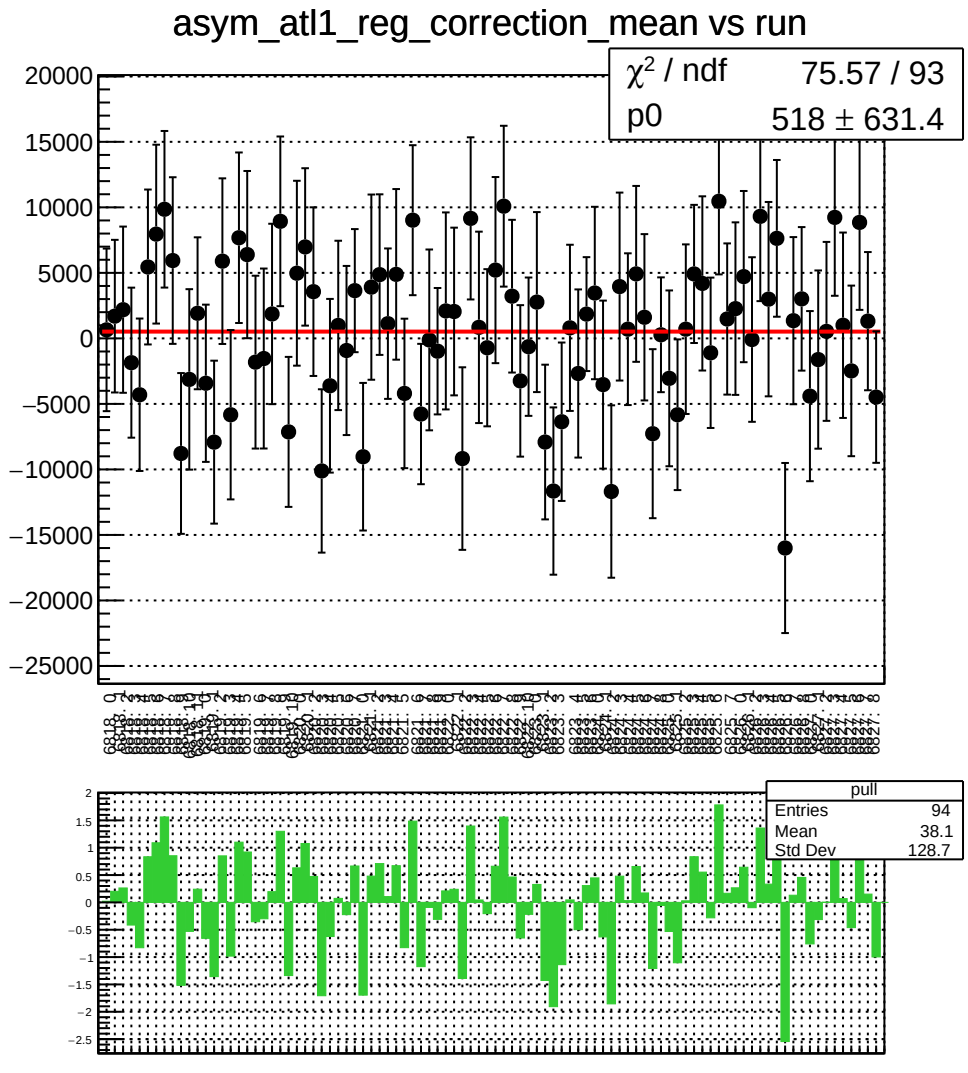

pull1D
Entries 94
Mean 0.0003379
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

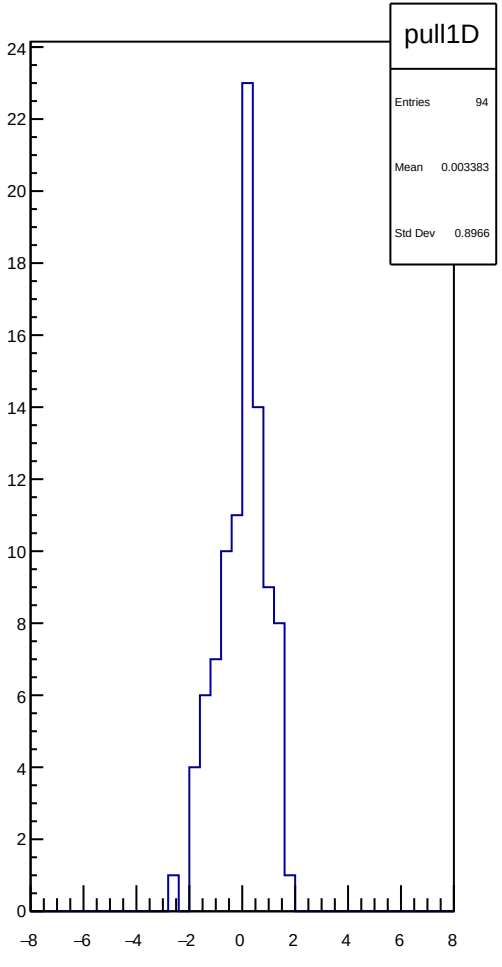

asym_us_agg_dd_rms vs run
χ² / ndf 481.1 / 93
p0 955.6 ± 0.7133
1000
980
960
940
920

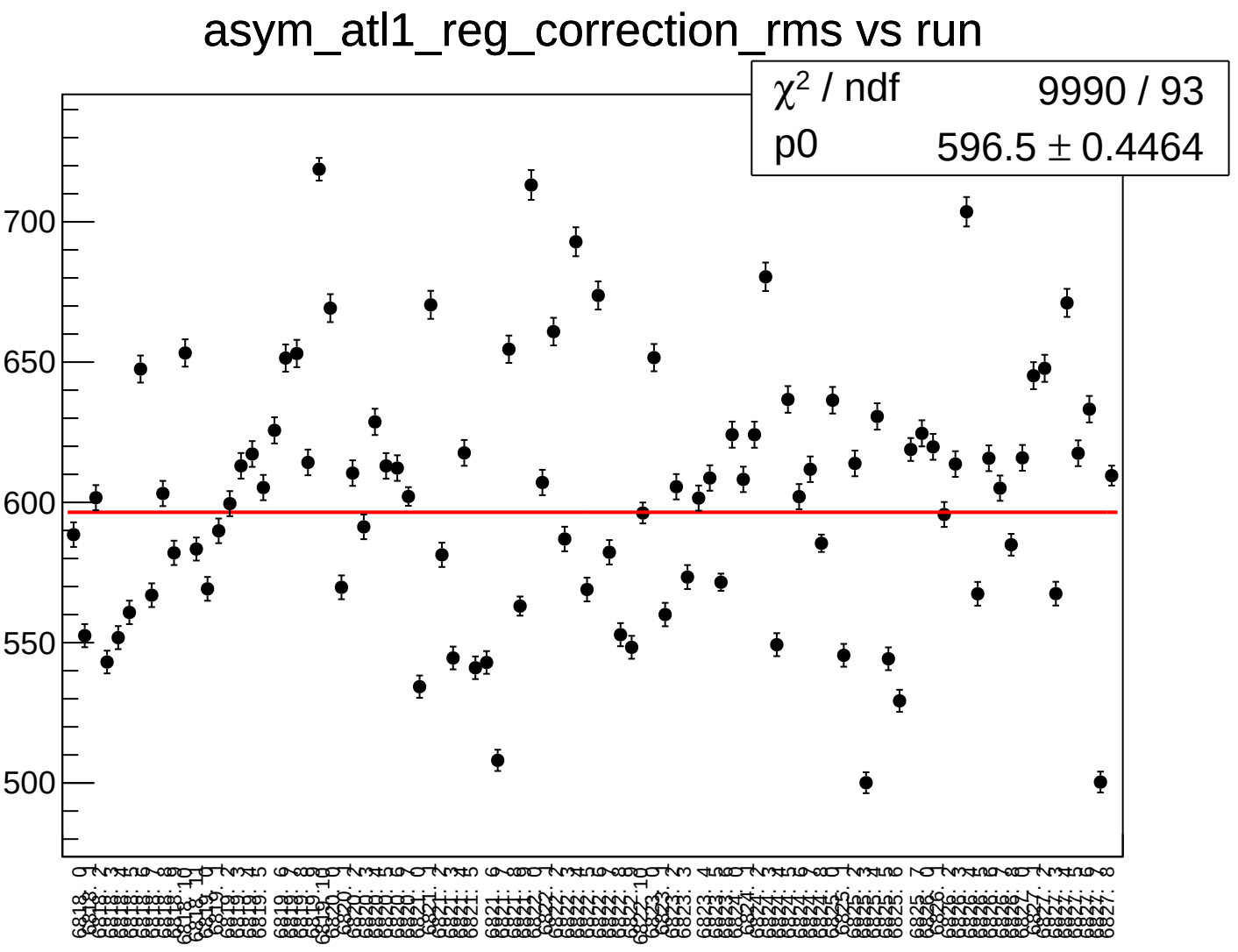

reg_asym_atl1_mean vs run
χ² / ndf 75.99 / 93
p0 −790.6 ± 2524
pull
Entries 94
Mean 92.58
Std Dev 86.04

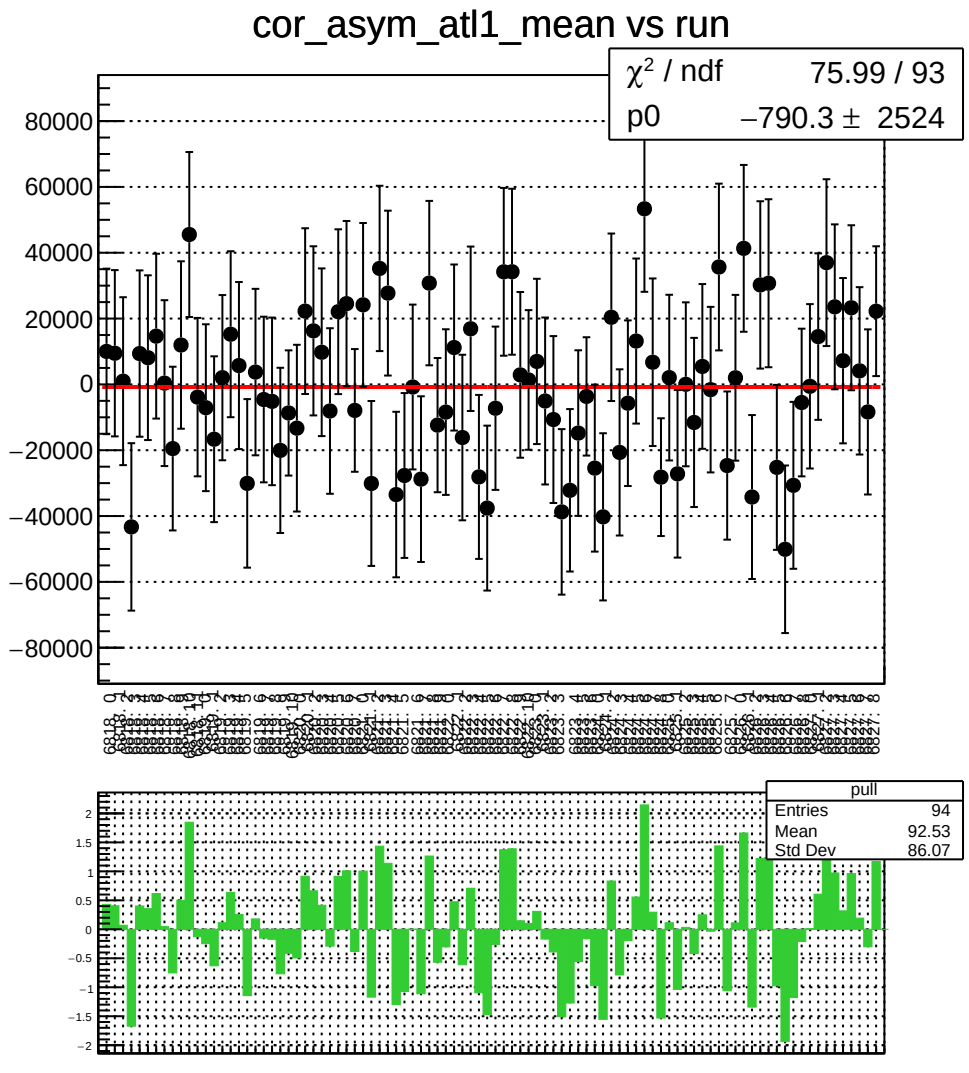

pull1D
Entries 94
Mean 0.009975
Std Dev 0.8991

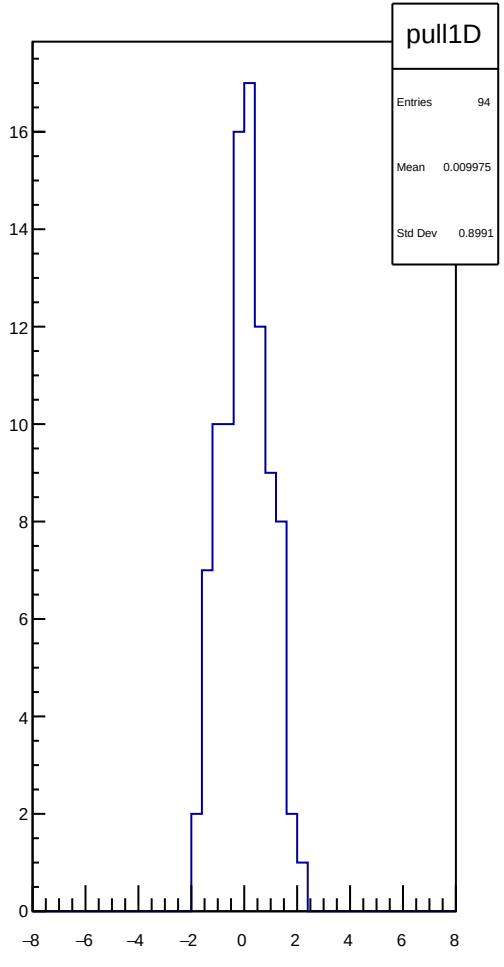

reg_asym_atl1_rms vs run
χ² / ndf 104.8 / 93
p0 2391 ± 1.785
2460
2440
2420
2400
2380
2360
2340
2320

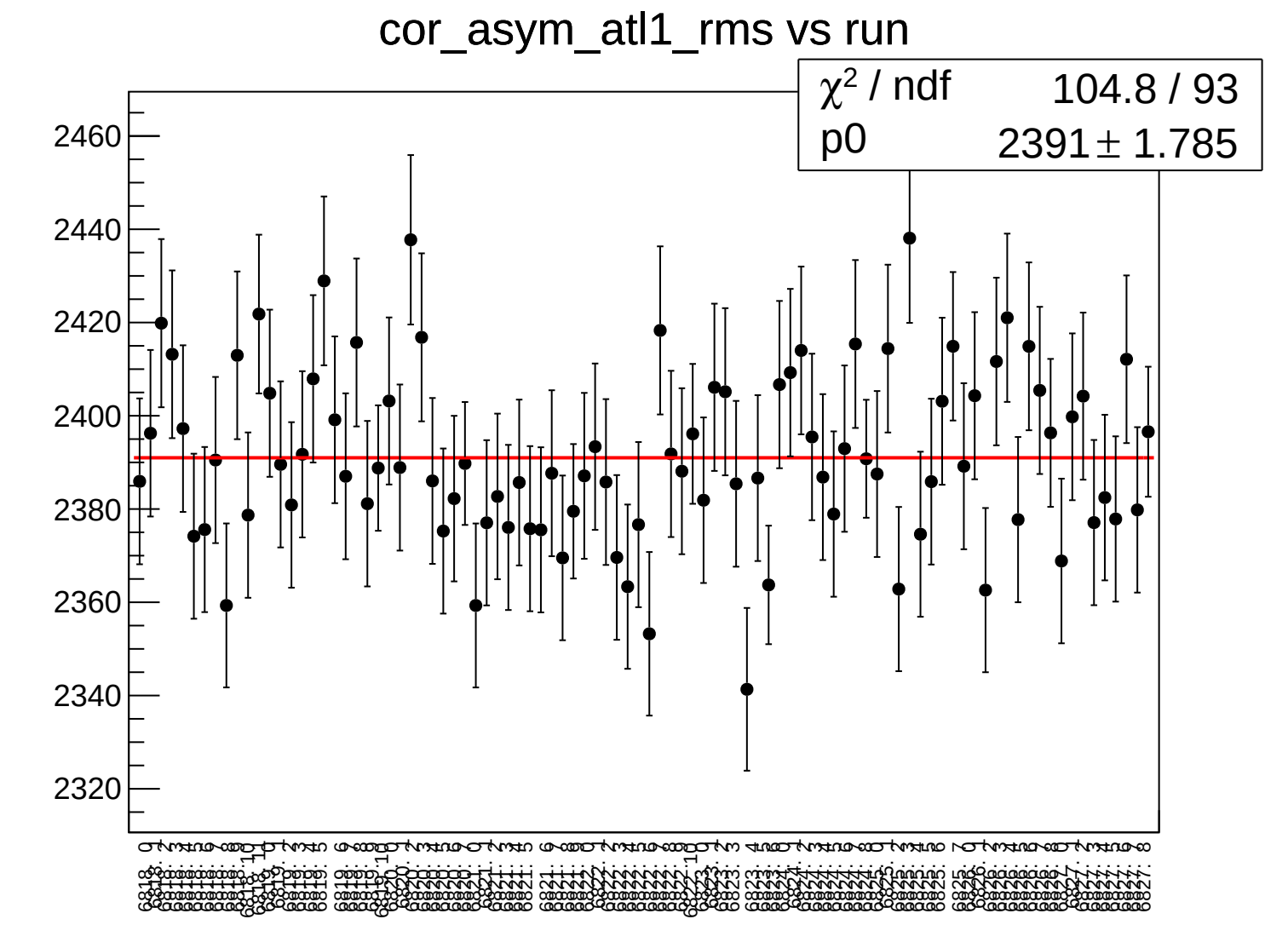

asym_atl1_reg_correction_mean vs run
χ² / ndf 75.57 / 93
p0 518 ± 631.4
pull
Entries 94
Mean 38.1
Std Dev 128.7

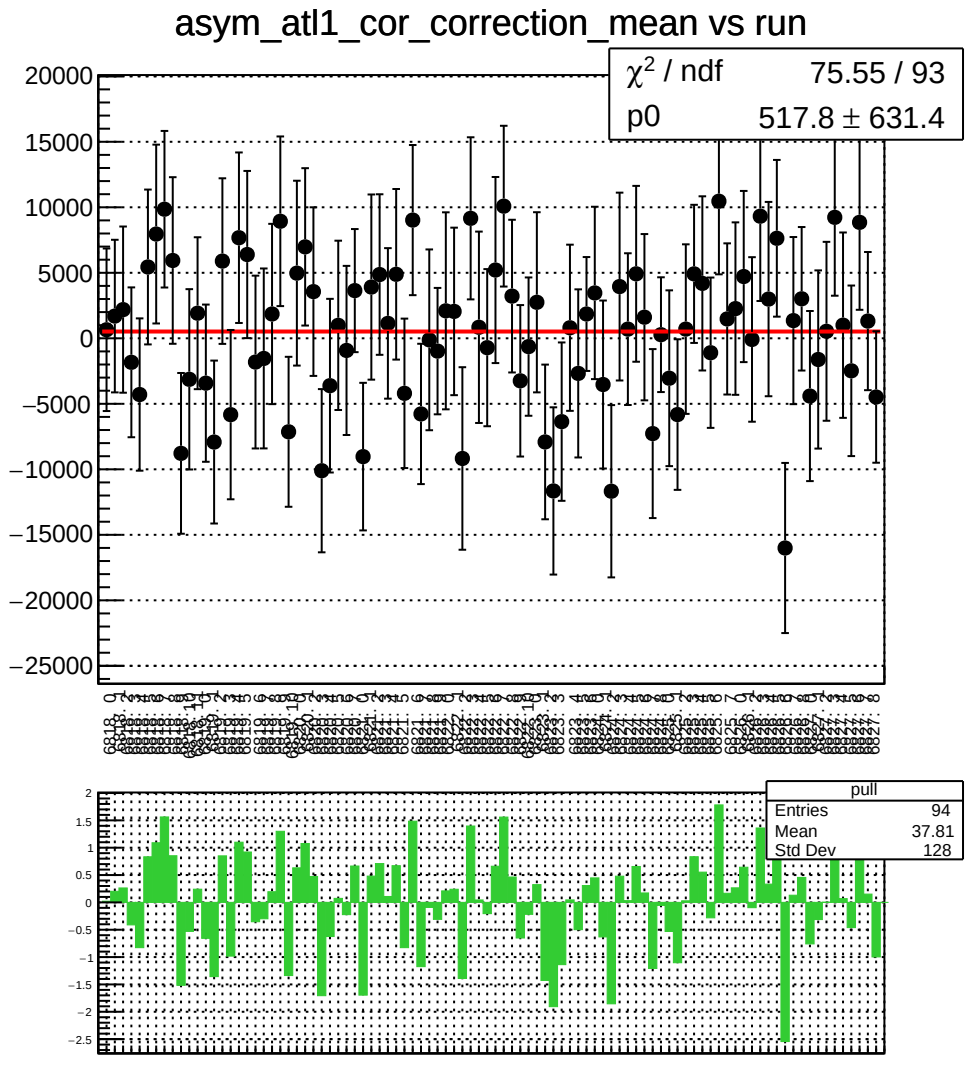

pull1D
Entries 94
Mean 0.003383
Std Dev 0.8966

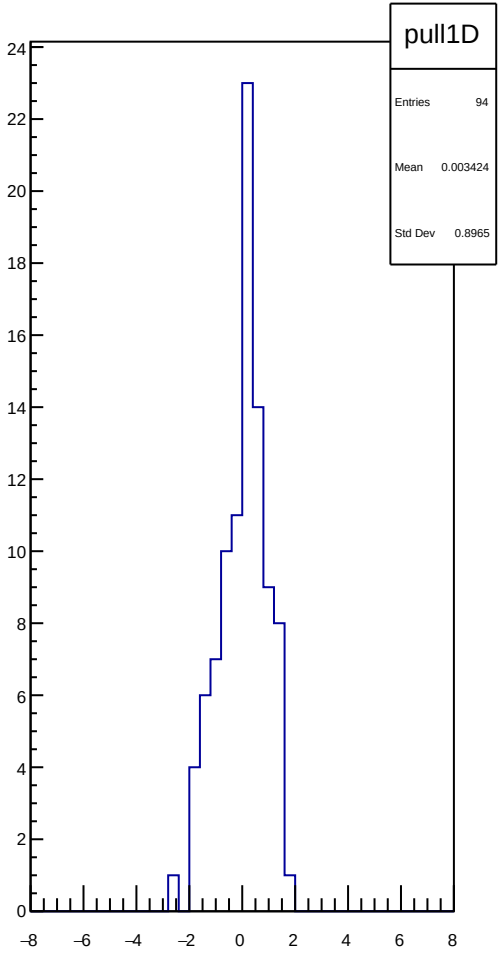

asym_atl1_reg_correction_rms vs run
χ² / ndf 9990 / 93
p0 596.5 ± 0.4464
700
650
600
550
500

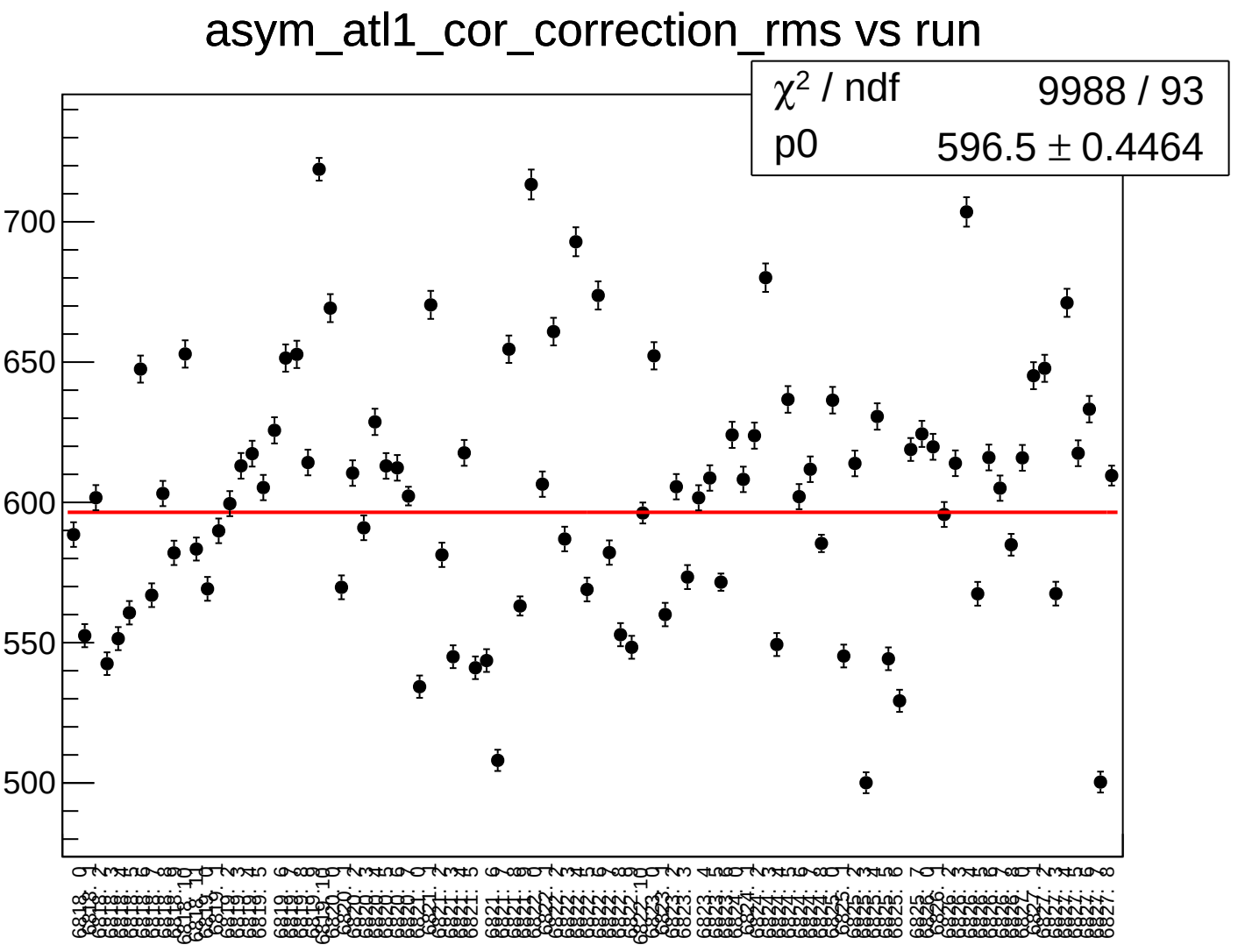

cor_asym_atl1_mean vs run
χ² / ndf 75.99 / 93
p0 −790.3 ± 2524
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 92.53
Std Dev 86.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

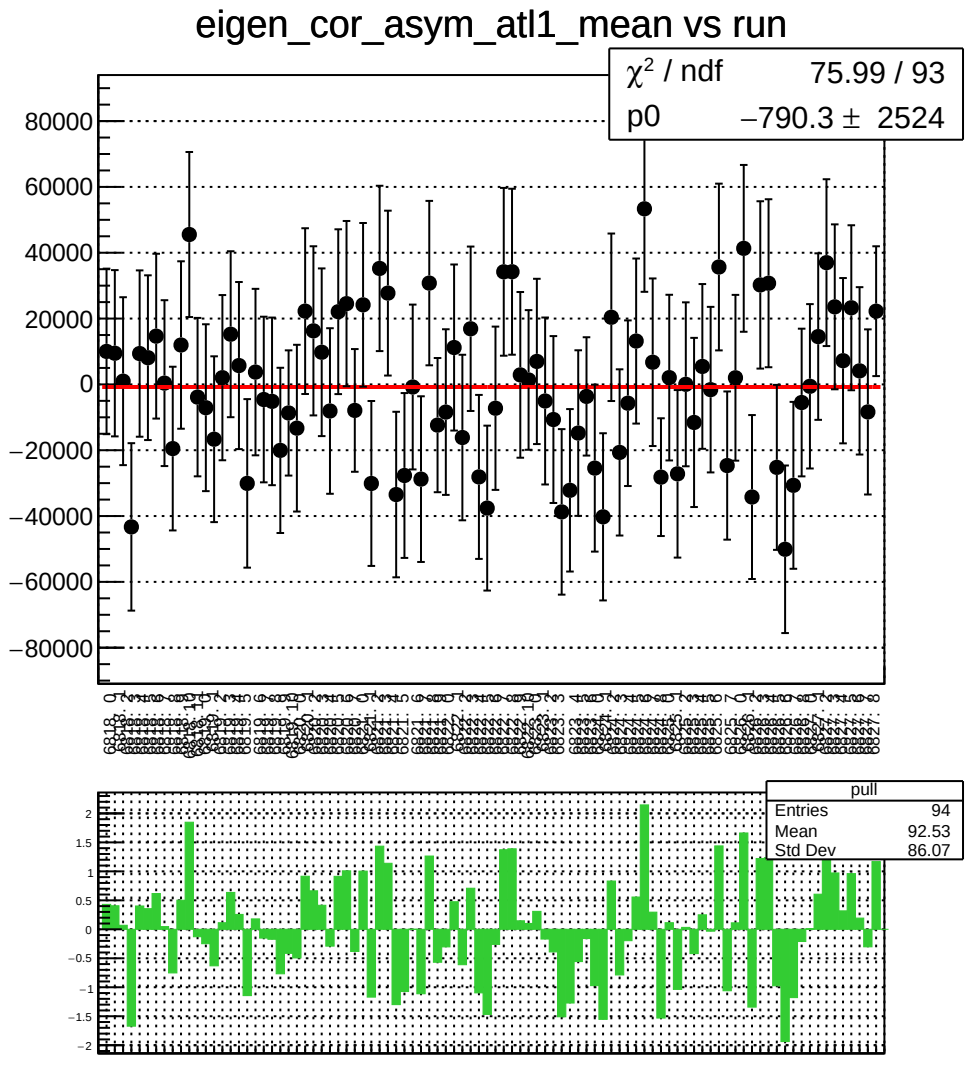

pull1D
Entries 94
Mean 0.009975
Std Dev 0.8991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

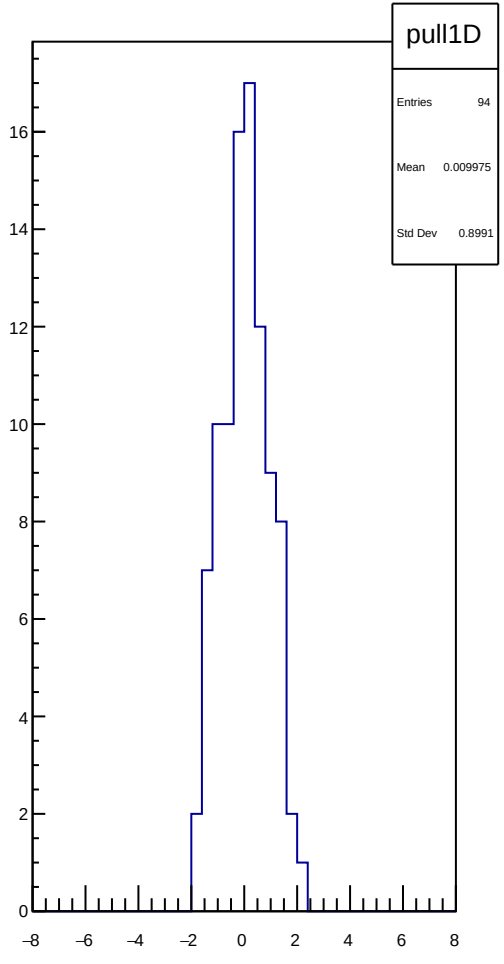

cor_asym_atl1_rms vs run
χ² / ndf 104.8 / 93
p0 2391 ± 1.785
2460
2440
2420
2400
2380
2360
2340
2320

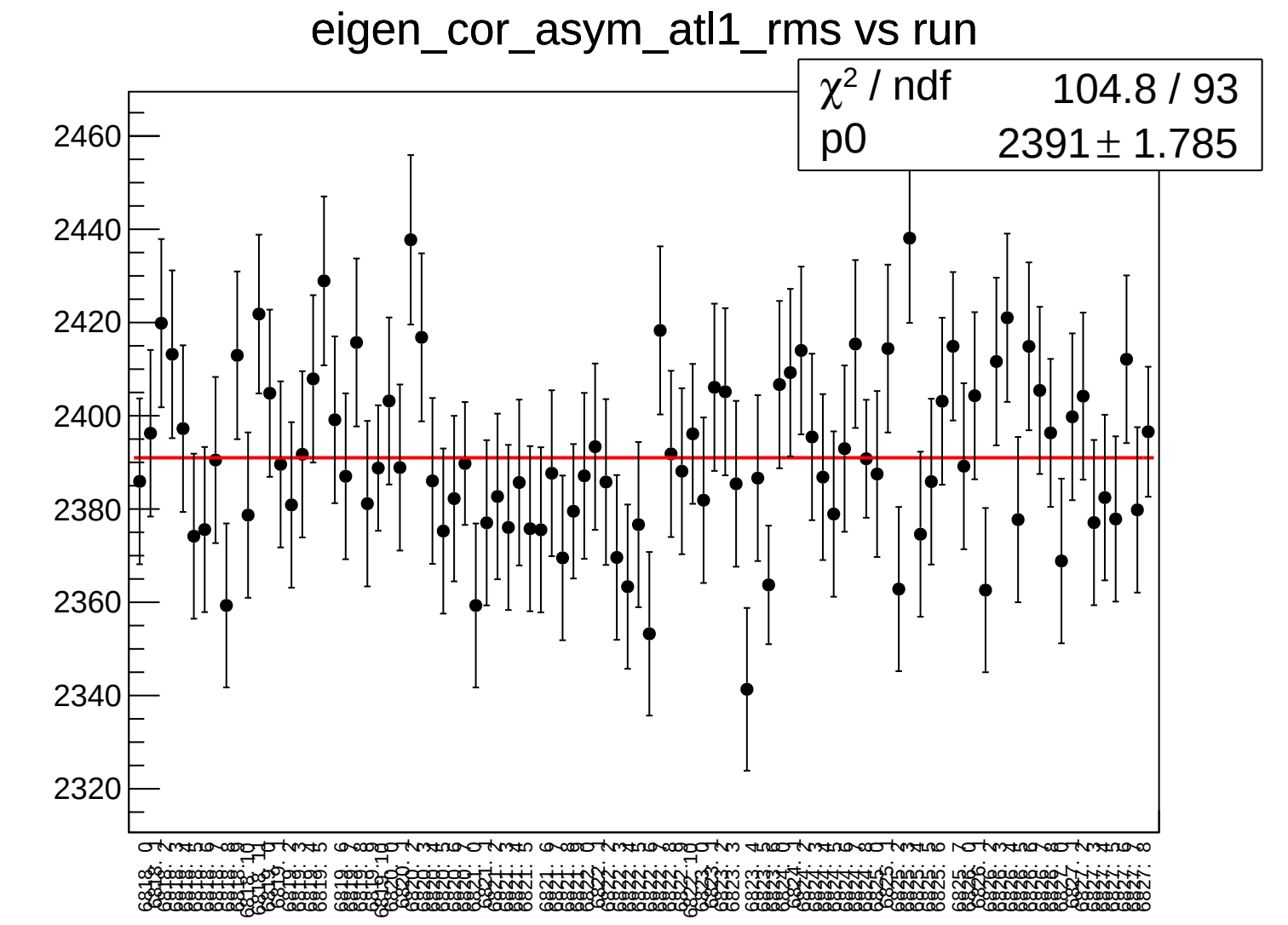

asym_atl1_cor_correction_mean vs run
χ² / ndf 75.55 / 93
p0 517.8 ± 631.4
pull
Entries 94
Mean 37.81
Std Dev 128

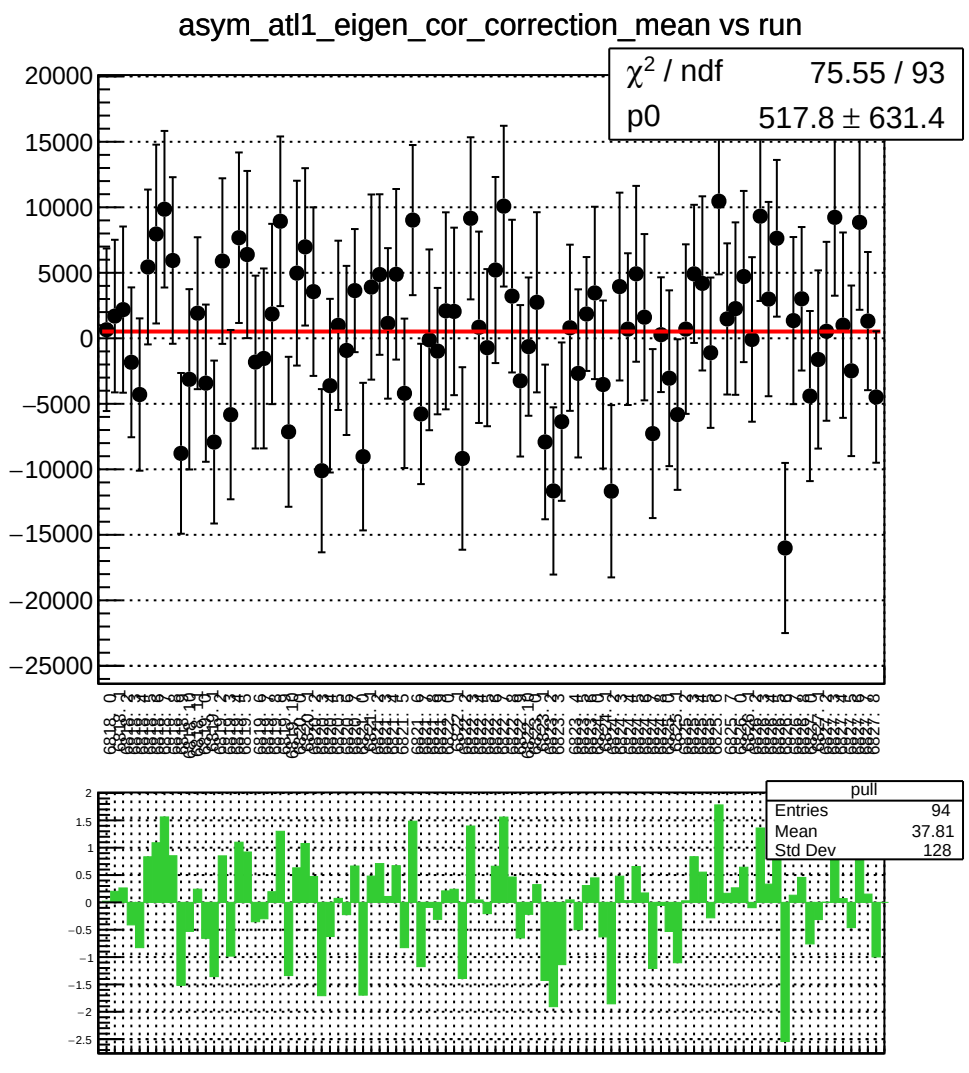

pull1D
Entries 94
Mean 0.003424
Std Dev 0.8965

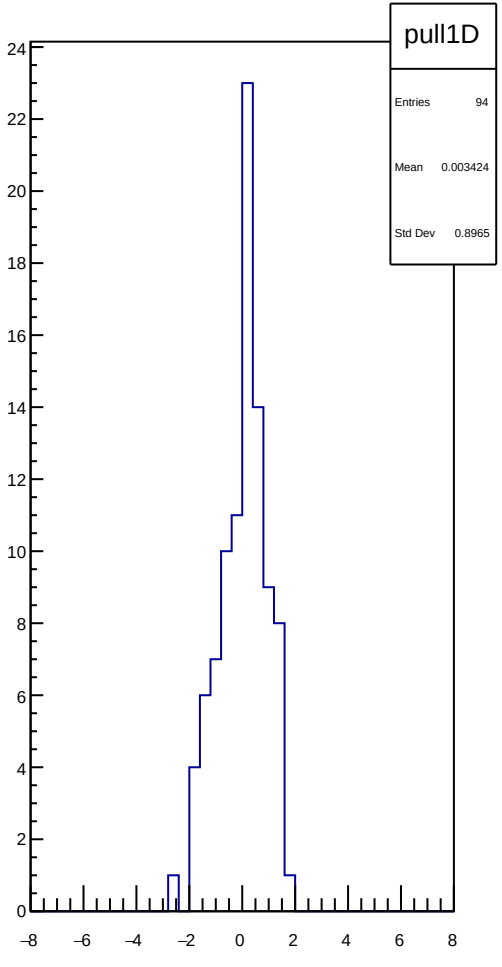

asym_atl1_cor_correction_rms vs run
χ² / ndf 9988 / 93
p0 596.5 ± 0.4464
700
650
600
550
500

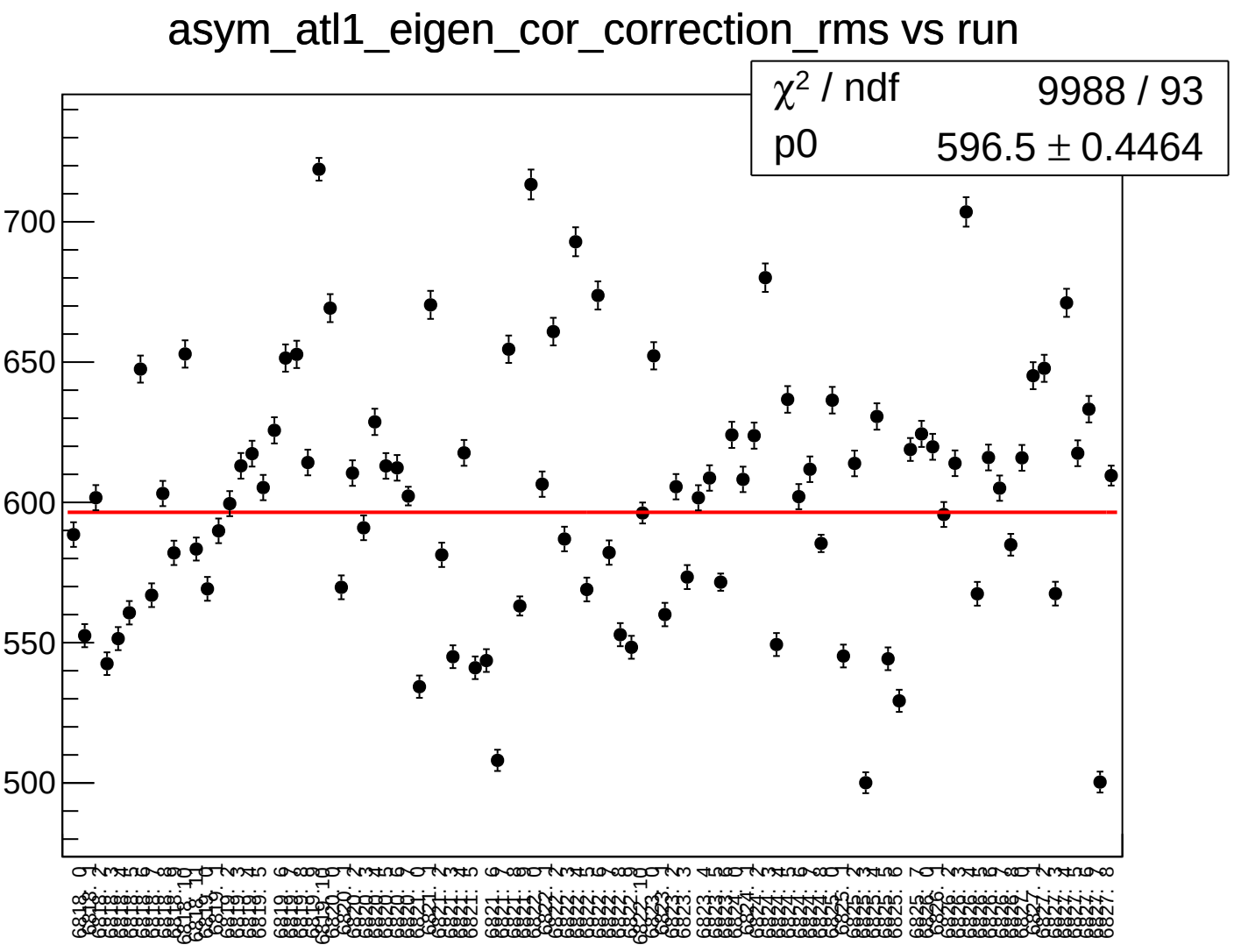

eigen_cor_asym_atl1_mean vs run
χ² / ndf 75.99 / 93
p0 −790.3 ± 2524
pull
Entries 94
Mean 92.53
Std Dev 86.07

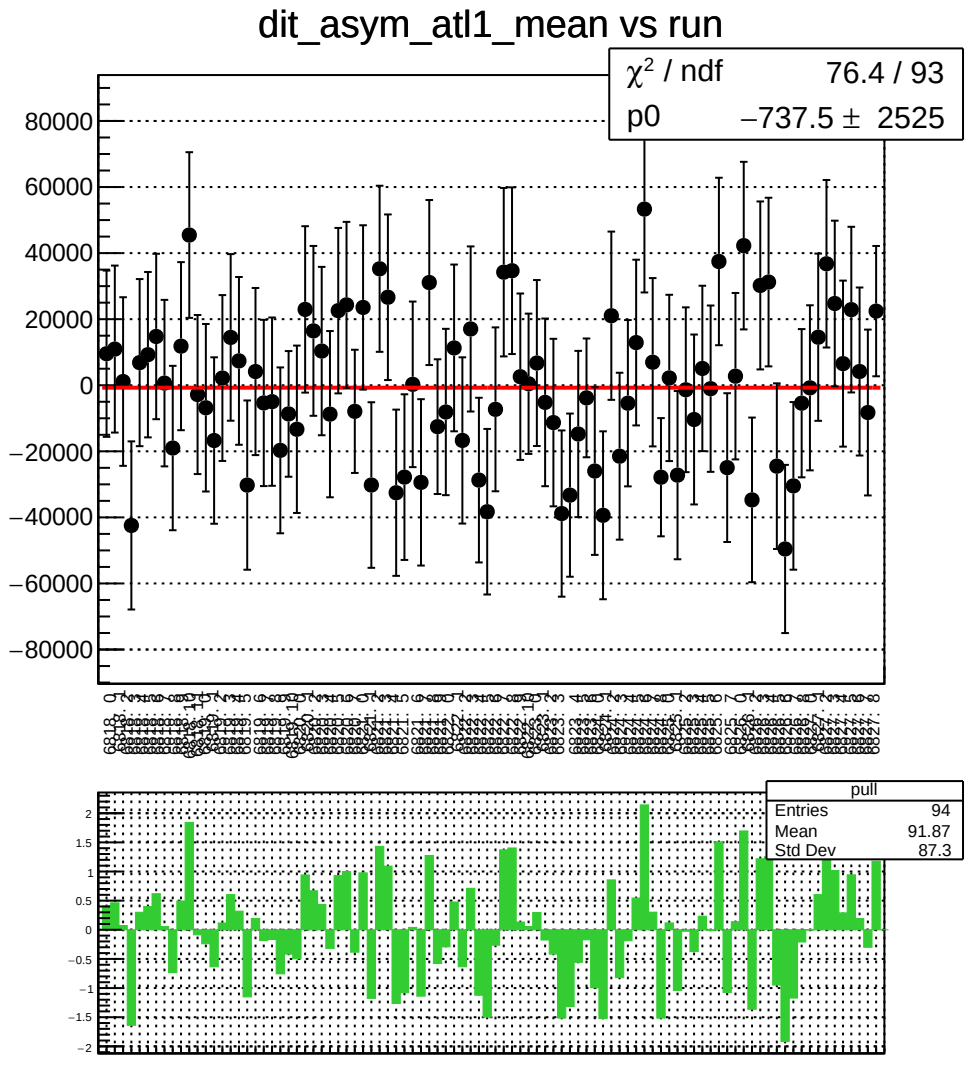

pull1D
Entries 94
Mean 0.009975
Std Dev 0.8991

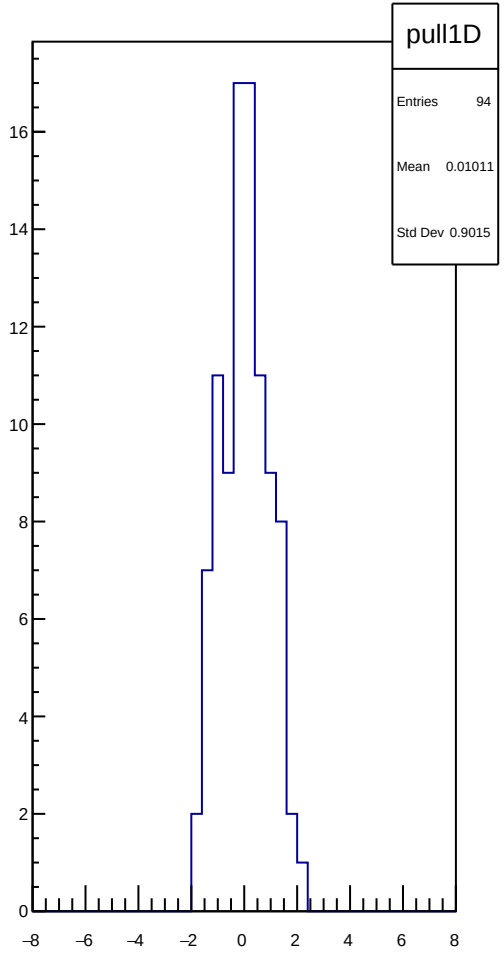

eigen_cor_asym_atl1_rms vs run
χ² / ndf 104.8 / 93
p0 2391 ± 1.785
2460
2440
2420
2400
2380
2360
2340
2320

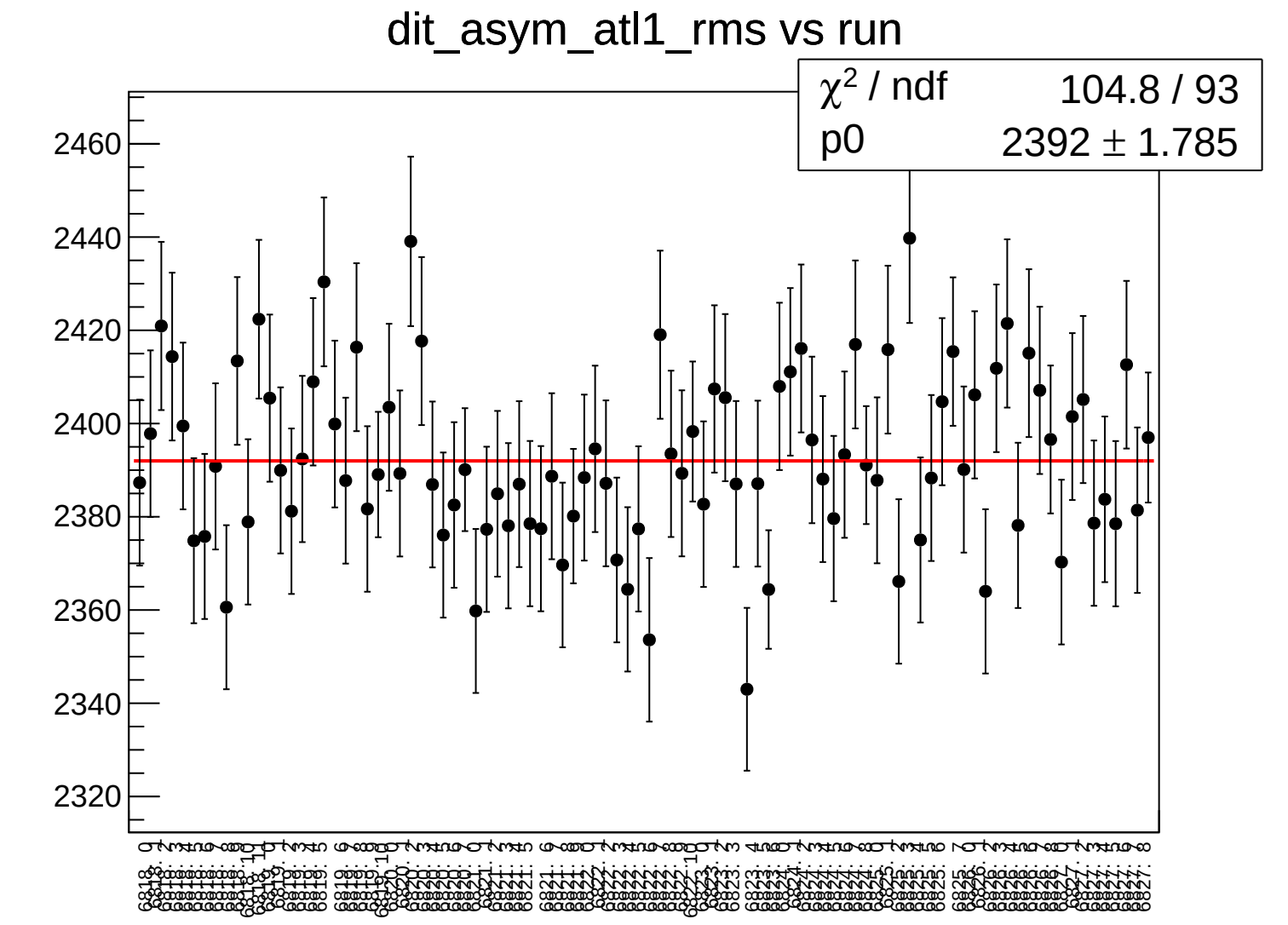

asym_atl1_eigen_cor_correction_mean vs run
χ^2 / ndf 75.55 / 93
p0 517.8 ± 631.4
pull
Entries 94
Mean 37.81
Std Dev 128

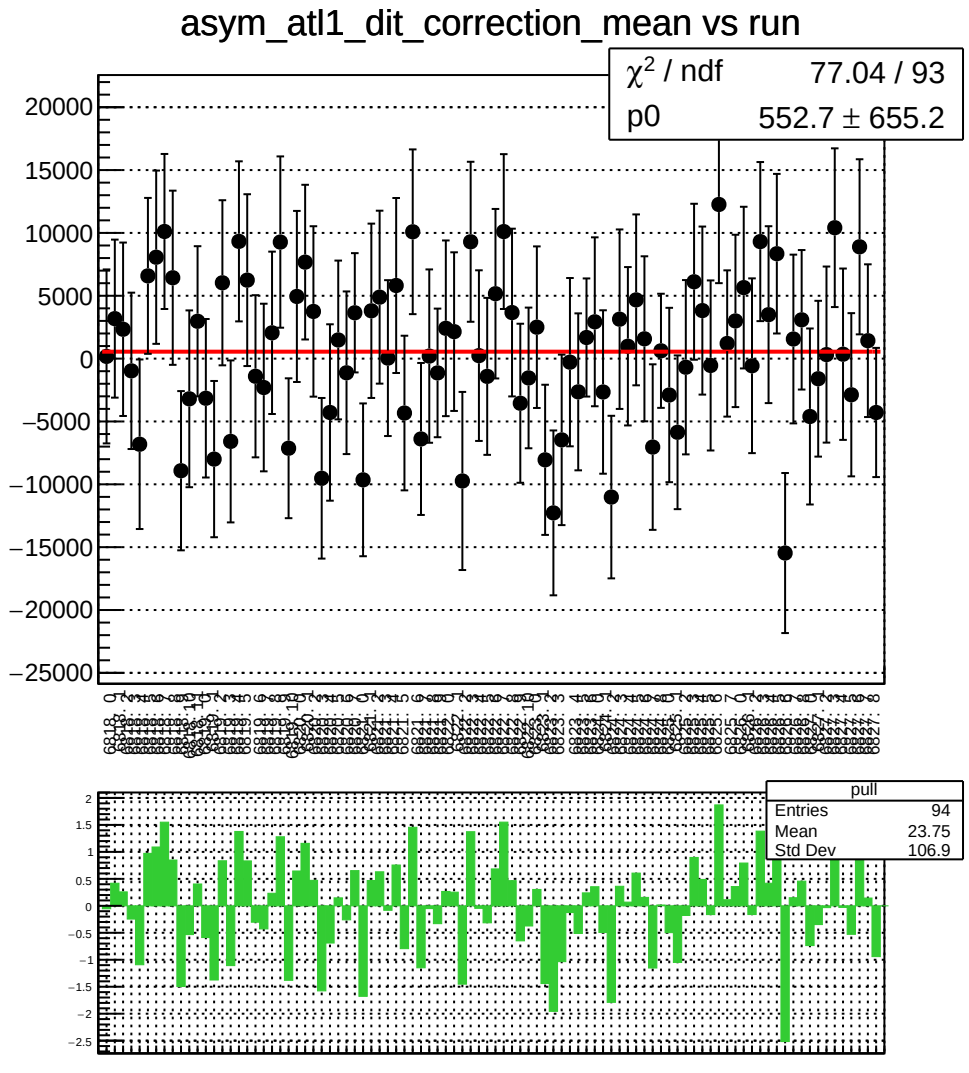

pull1D
Entries 94
Mean 0.003424
Std Dev 0.8965

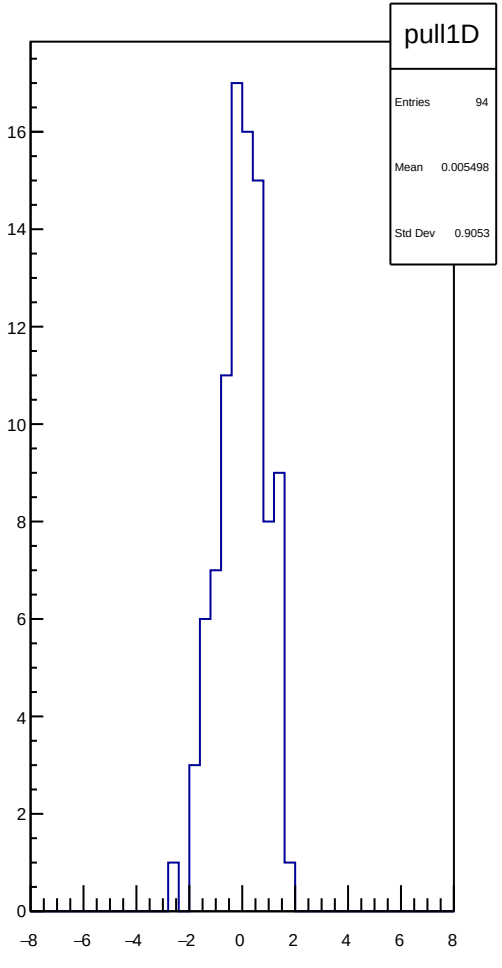

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 9988 / 93
p0 596.5 ± 0.4464
700
650
600
550
500

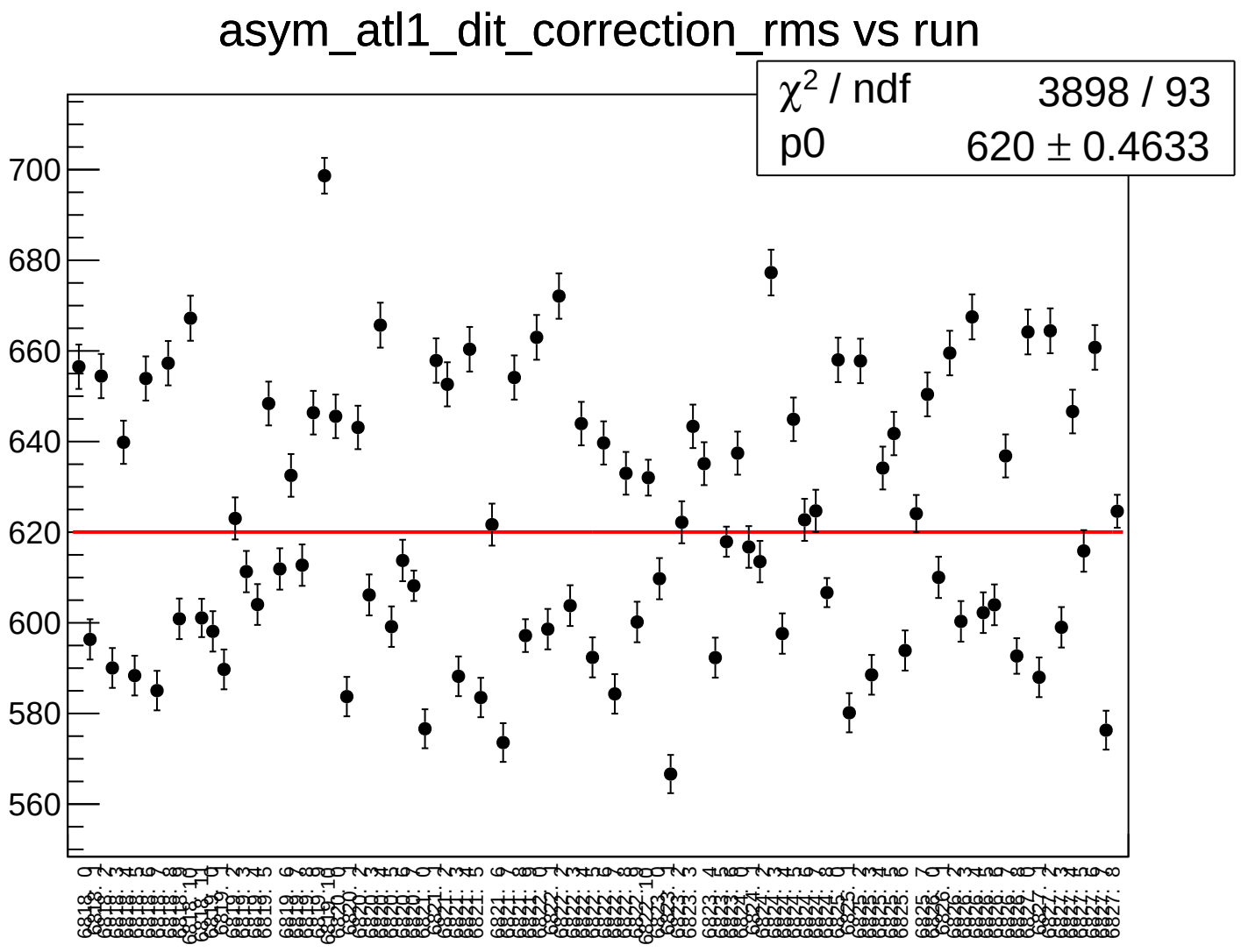

dit_asym_atl1_mean vs run
χ² / ndf 76.4 / 93
p0 −737.5 ± 2525
pull
Entries 94
Mean 91.87
Std Dev 87.3

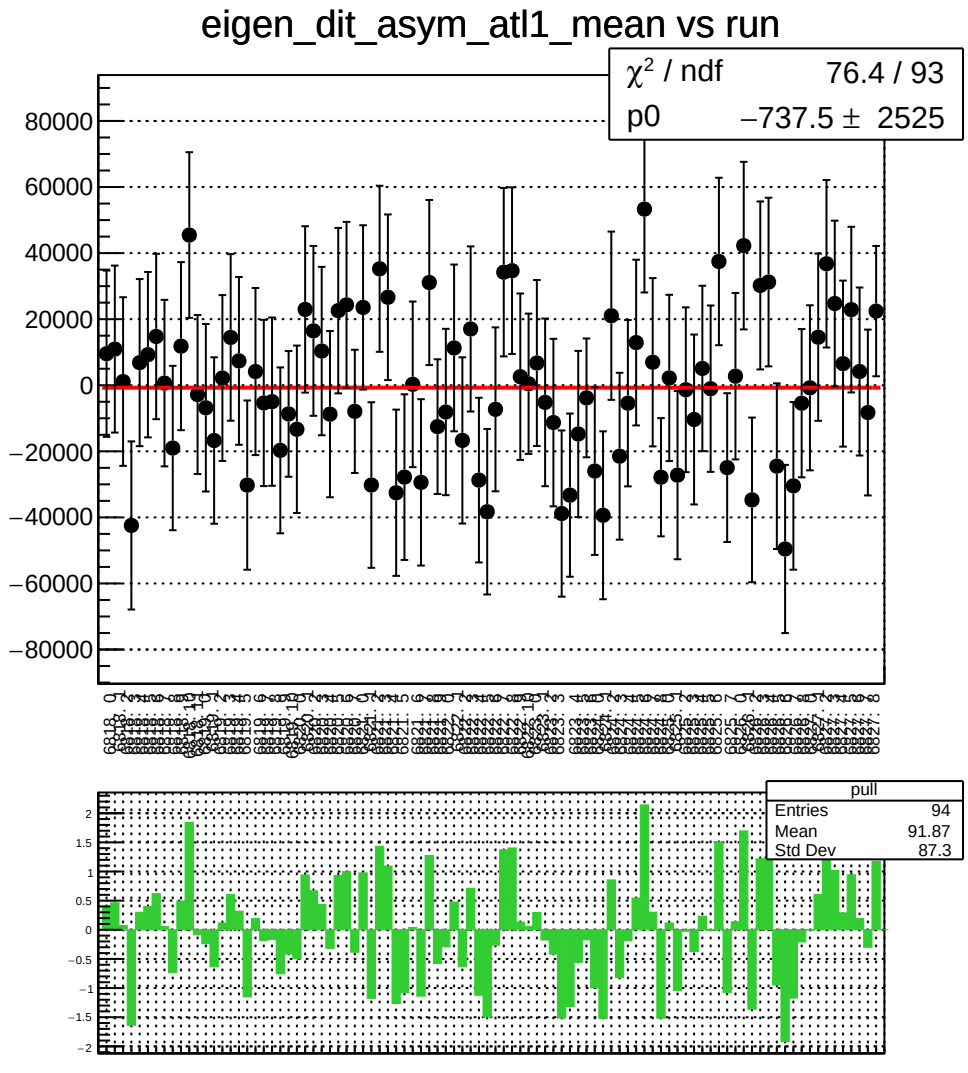

pull1D
Entries 94
Mean 0.01011
Std Dev 0.9015

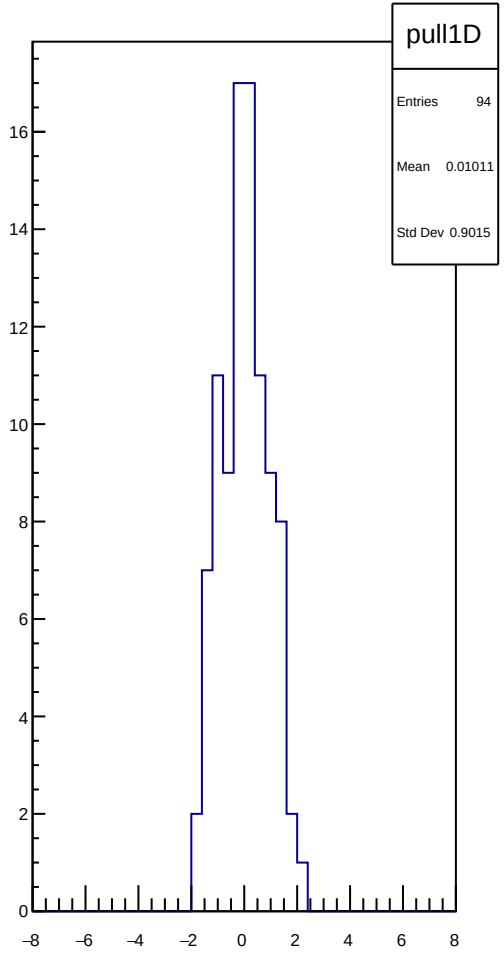

dit_asym_atl1_rms vs run
χ² / ndf 104.8 / 93
p0 2392 ± 1.785
2460
2440
2420
2400
2380
2360
2340
2320

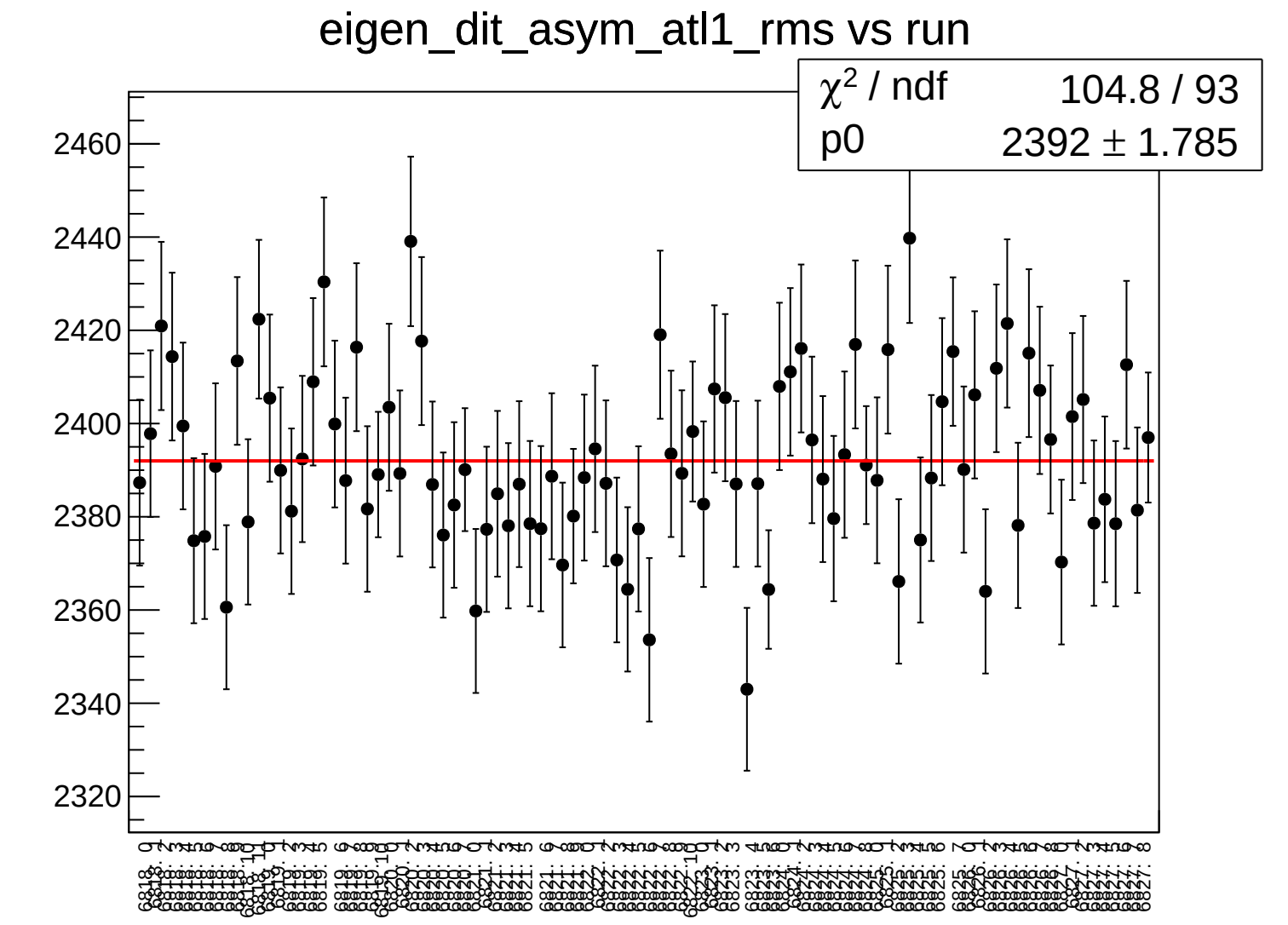

asym_atl1_dit_correction_mean vs run
χ² / ndf 77.04 / 93
p0 552.7 ± 655.2
pull
Entries 94
Mean 23.75
Std Dev 106.9

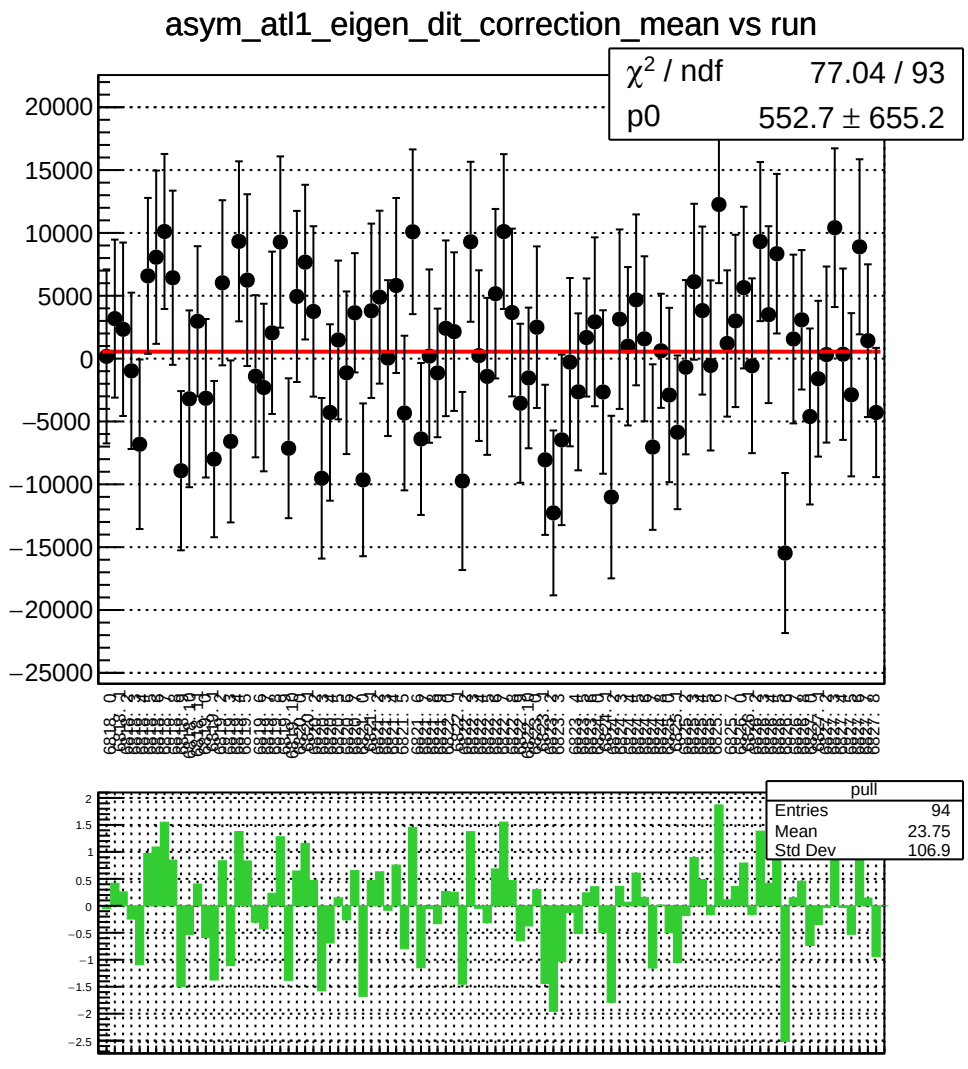

pull1D
Entries 94
Mean 0.005498
Std Dev 0.9053

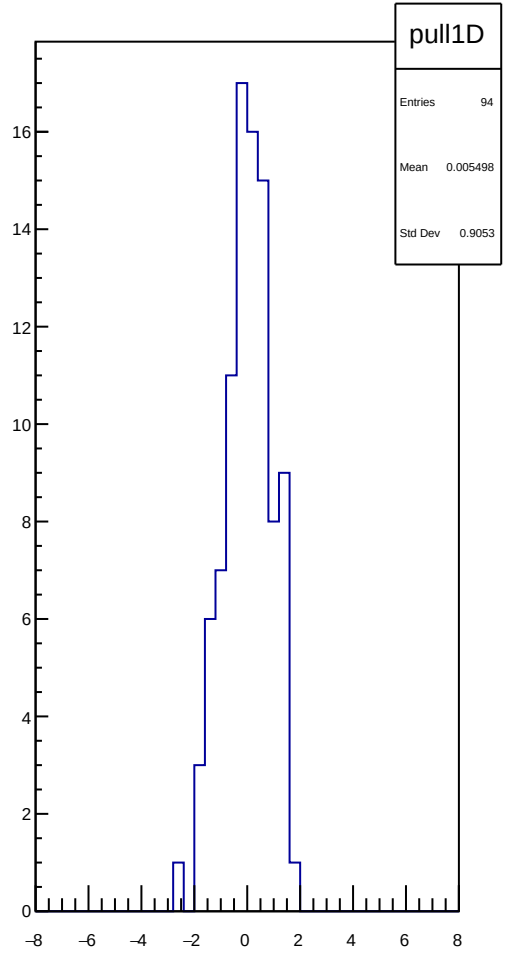

asym_atl1_dit_correction_rms vs run
χ² / ndf 3898 / 93
p0 620 ± 0.4633
700
680
660
640
620
600
580
560

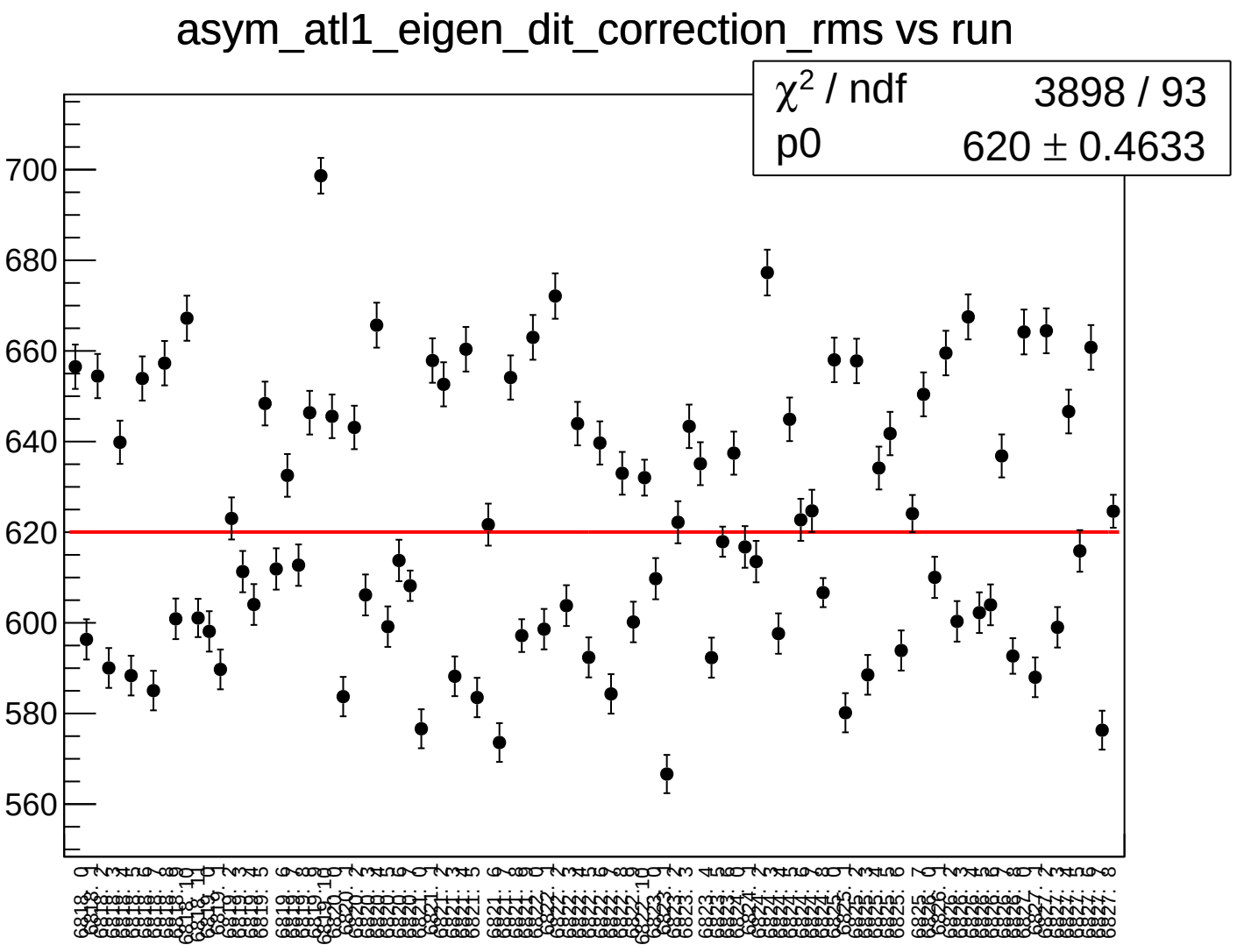

eigen_dit_asym_atl1_mean vs run
χ² / ndf 76.4 / 93
p0 −737.5 ± 2525
pull
Entries 94
Mean 91.87
Std Dev 87.3

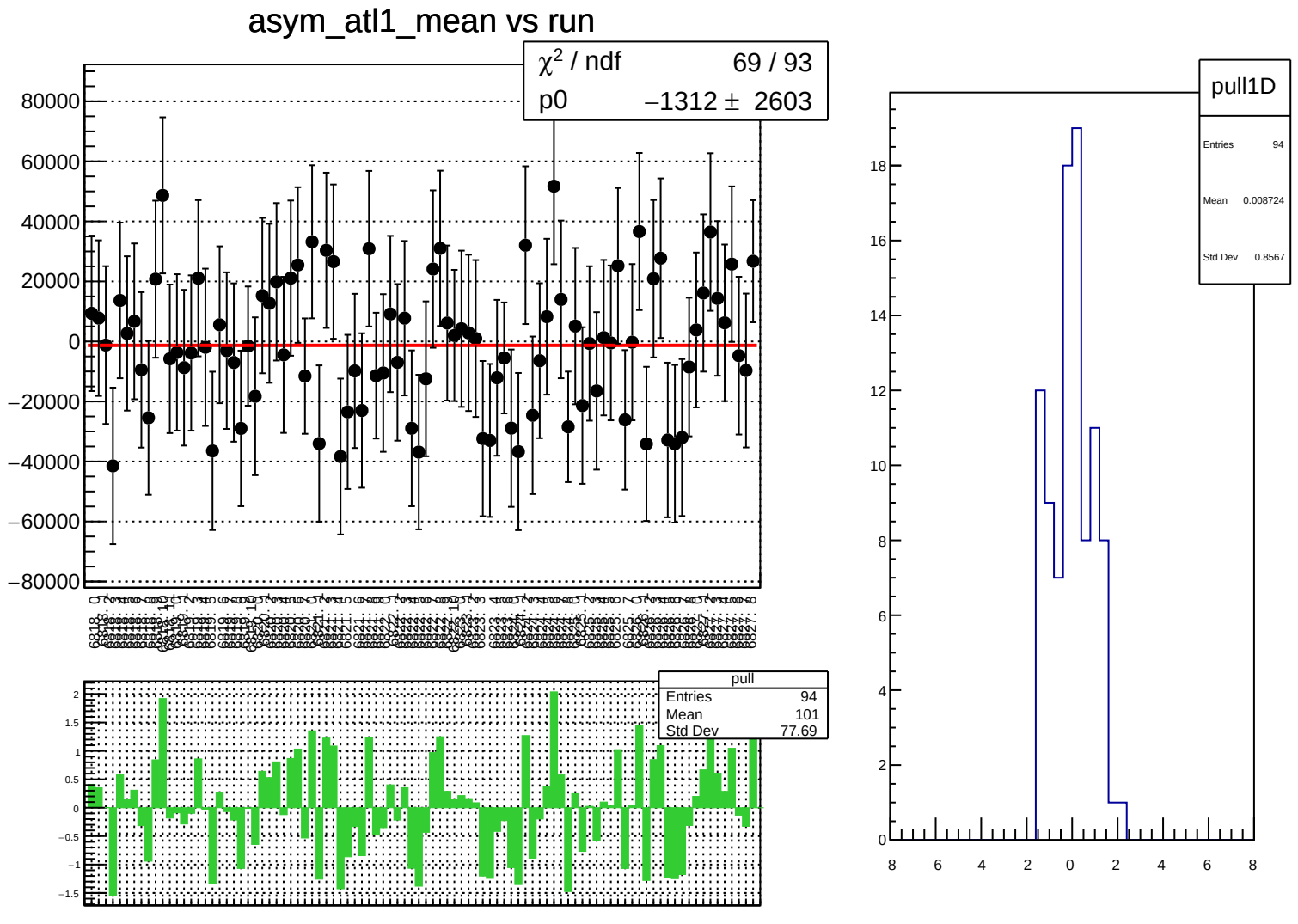

pull1D
Entries 94
Mean 0.01011
Std Dev 0.9015

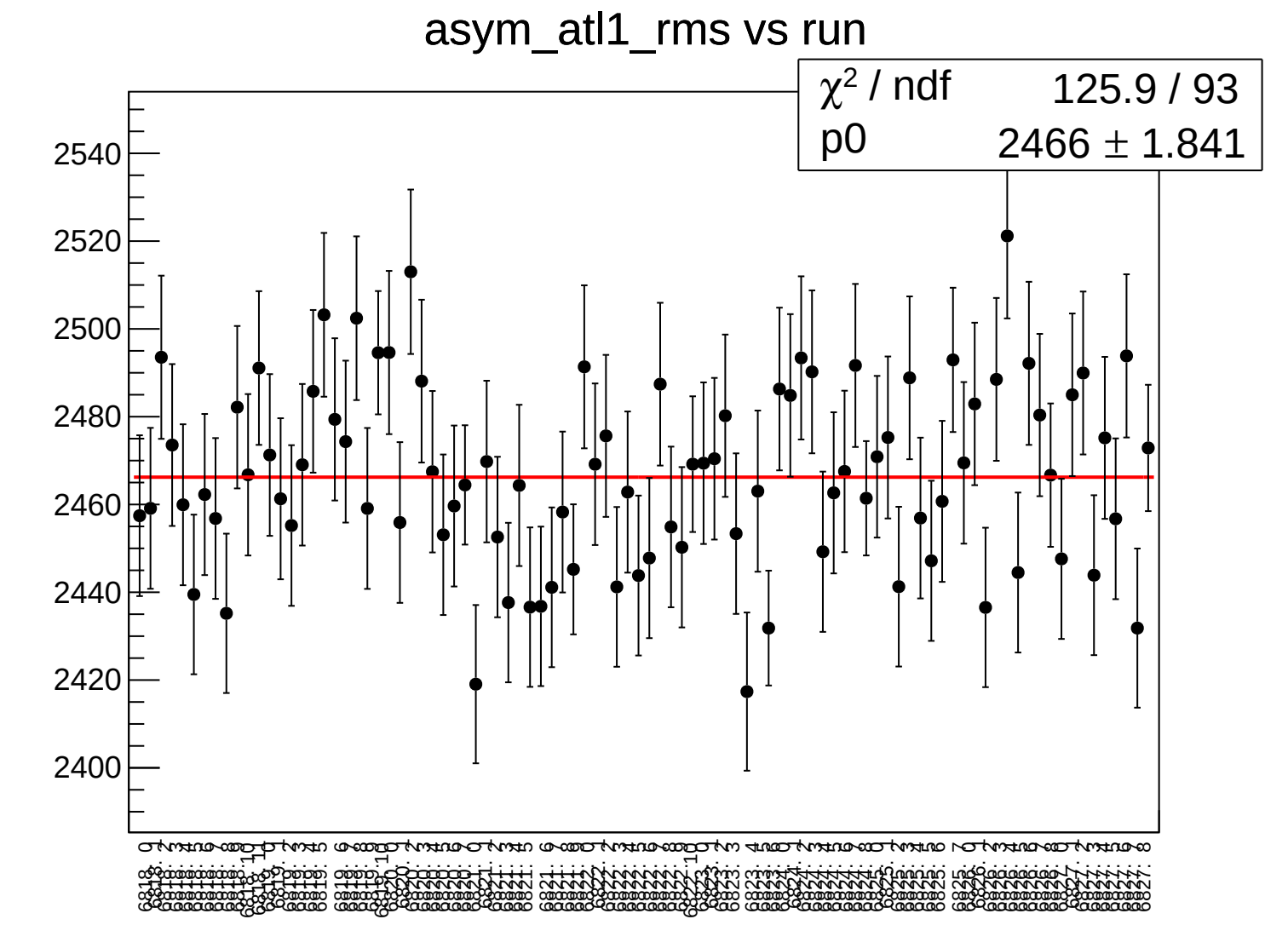

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 104.8 / 93
p0 2392 ± 1.785
2460
2440
2420
2400
2380
2360
2340
2320

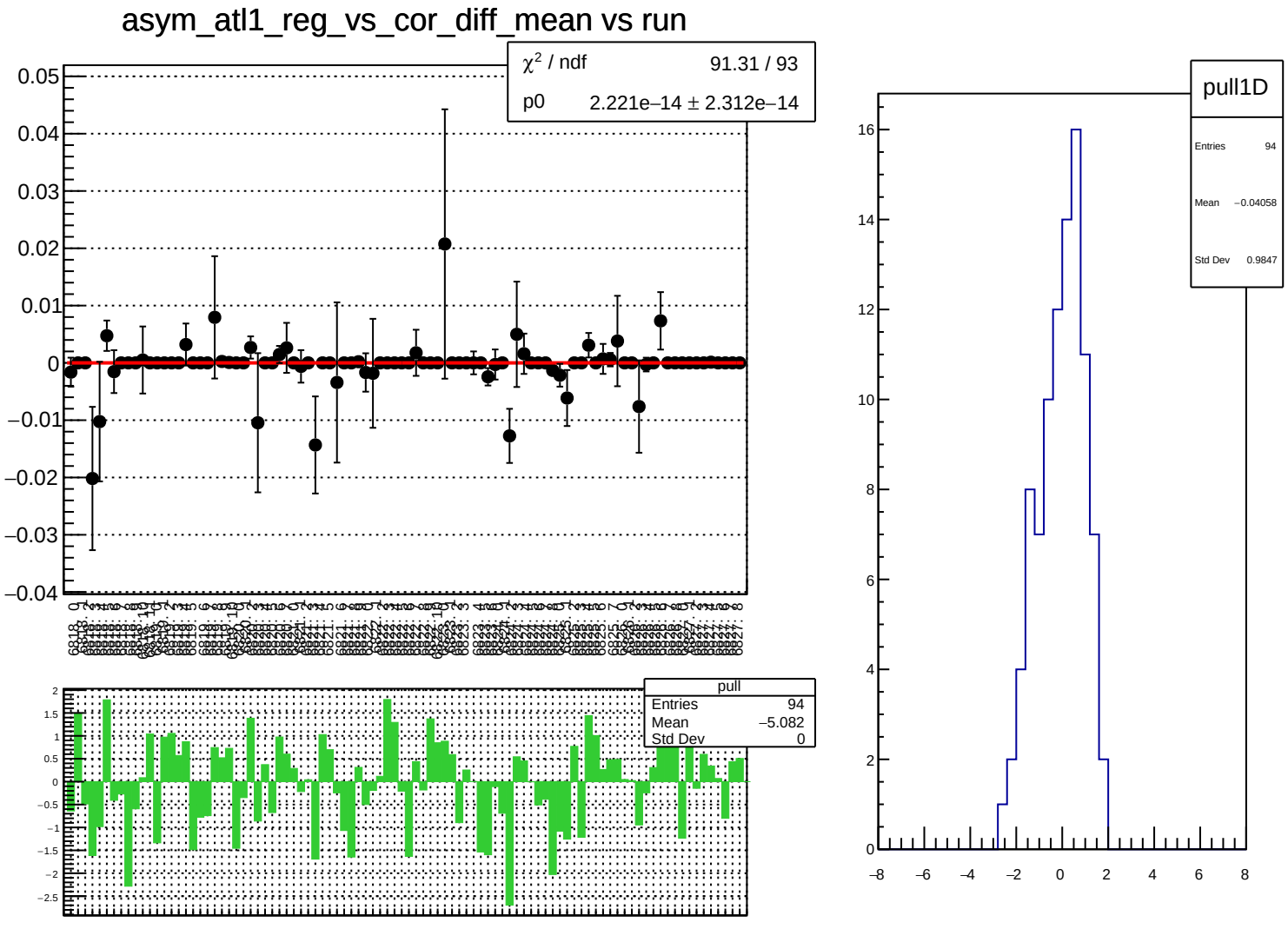

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 77.04 / 93
p0 552.7 ± 655.2
pull
Entries 94
Mean 23.75
Std Dev 106.9

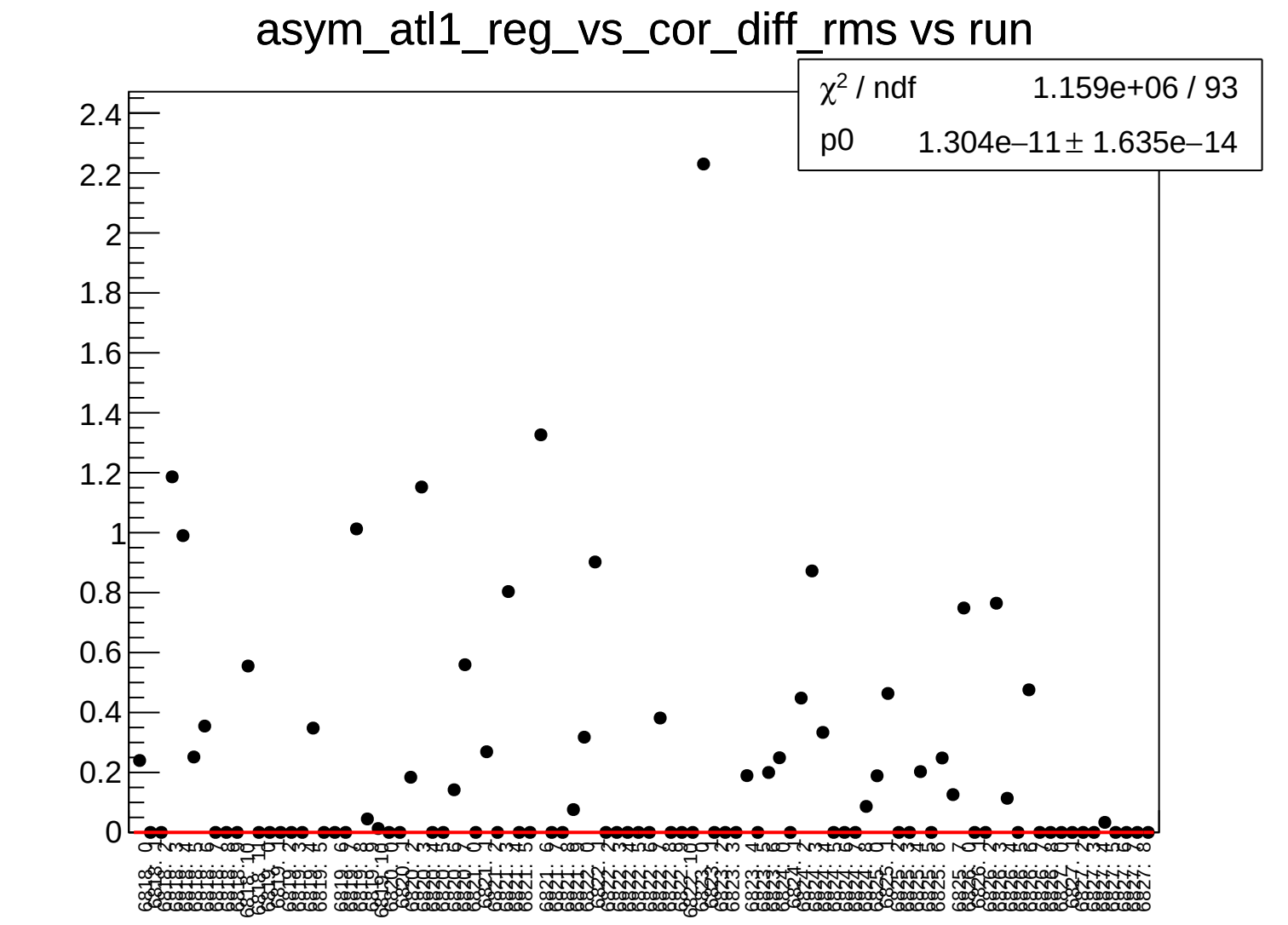

pull1D
Entries 94
Mean 0.005498
Std Dev 0.9053

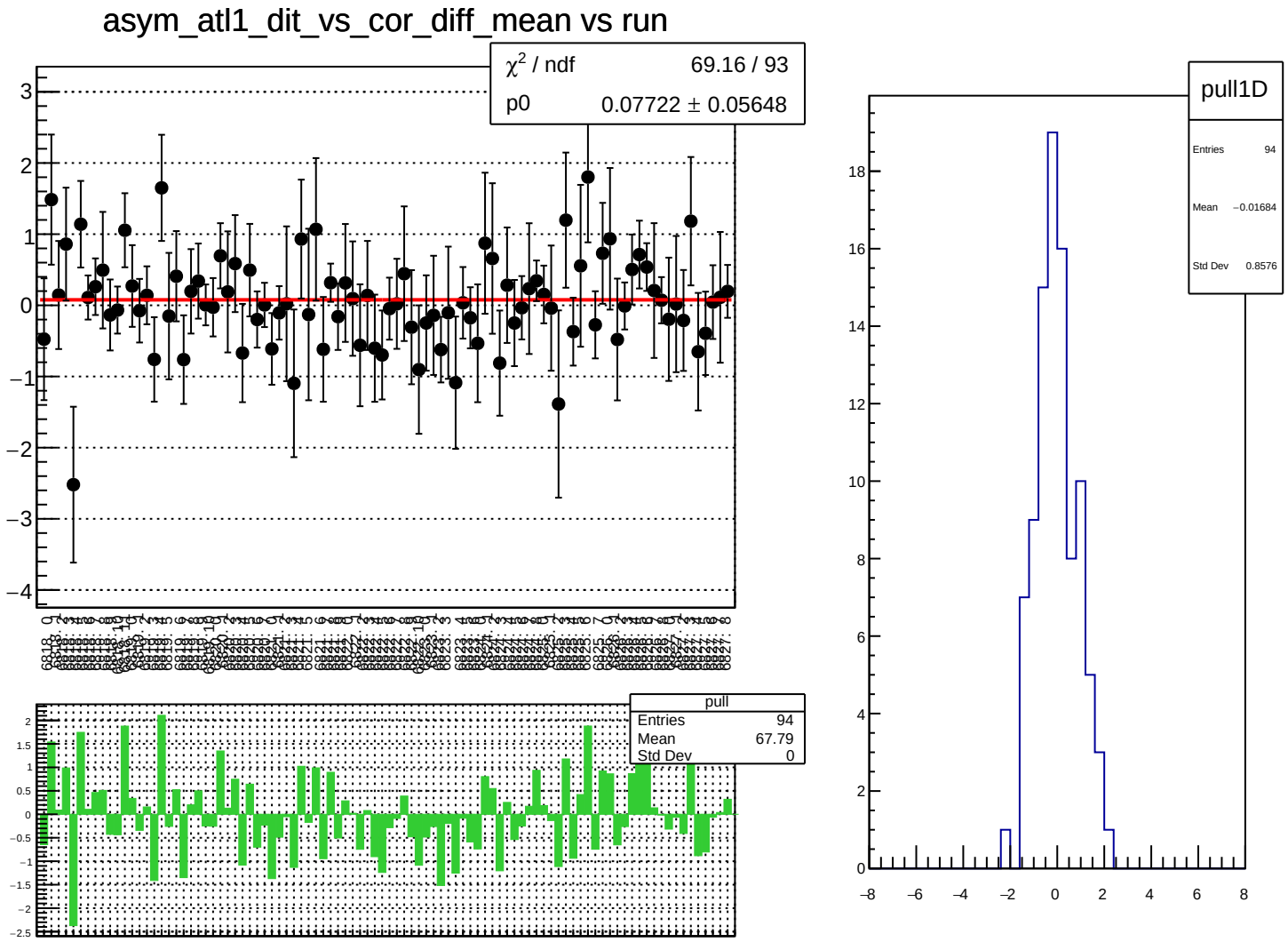

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 3898 / 93
p0 620 ± 0.4633
700
680
660
640
620
600
580
560

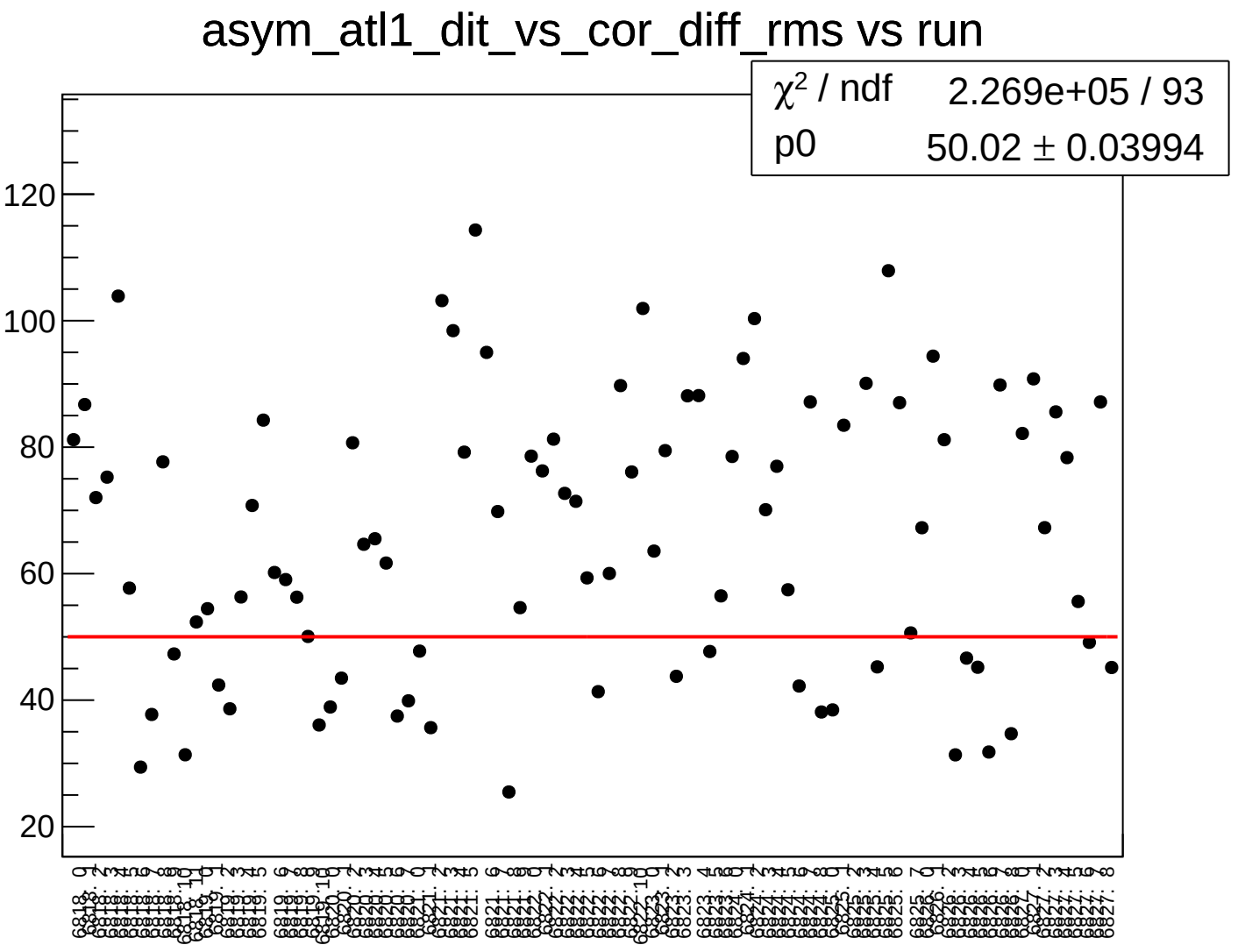

asym_atl1_mean vs run
χ² / ndf 69 / 93
p0 −1312 ± 2603
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 101
Std Dev 77.69
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.008724
Std Dev 0.8567
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

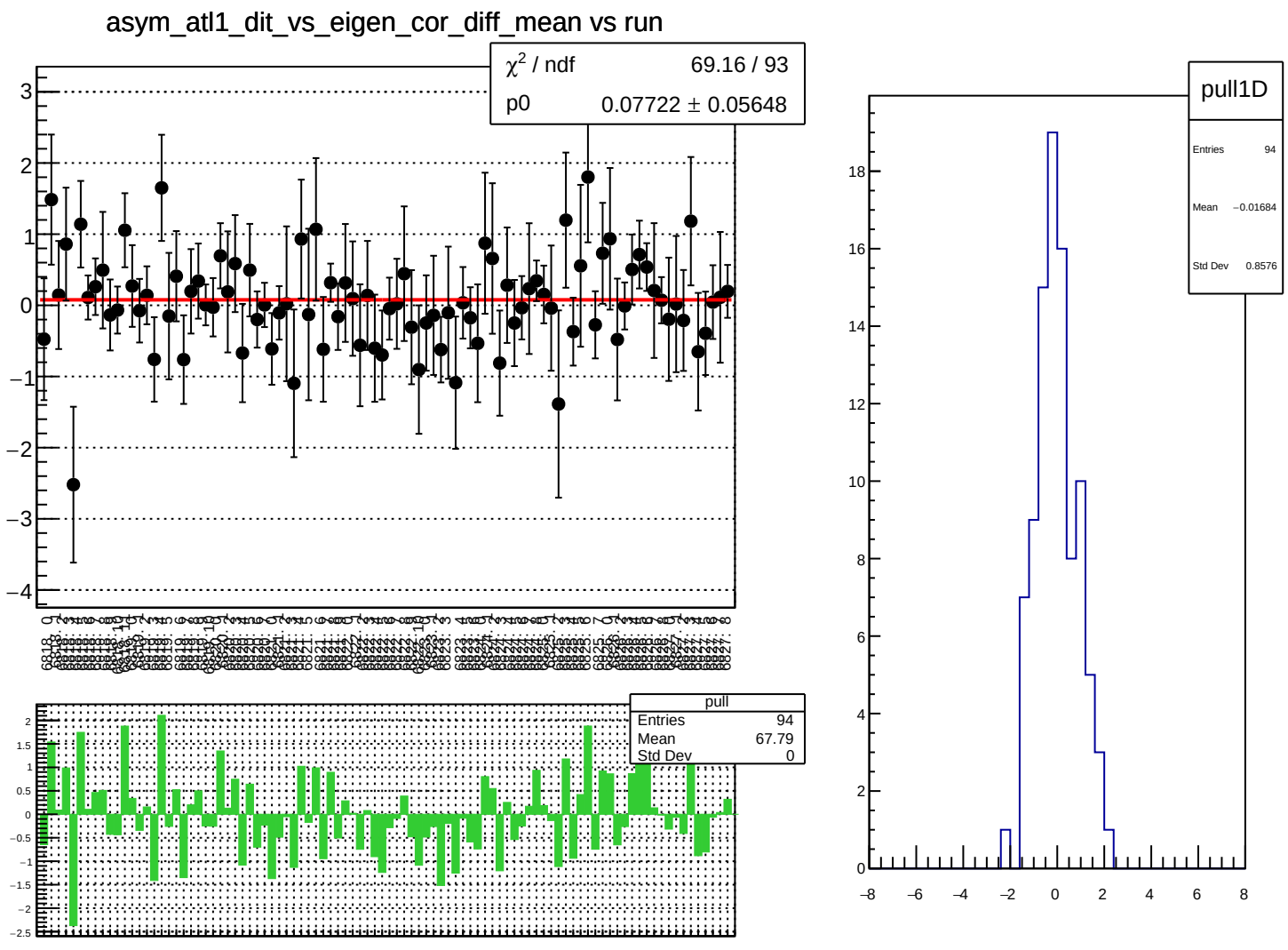

asym_atl1_rms vs run
χ² / ndf 125.9 / 93
p0 2466 ± 1.841
2540
2520
2500
2480
2460
2440
2420
2400

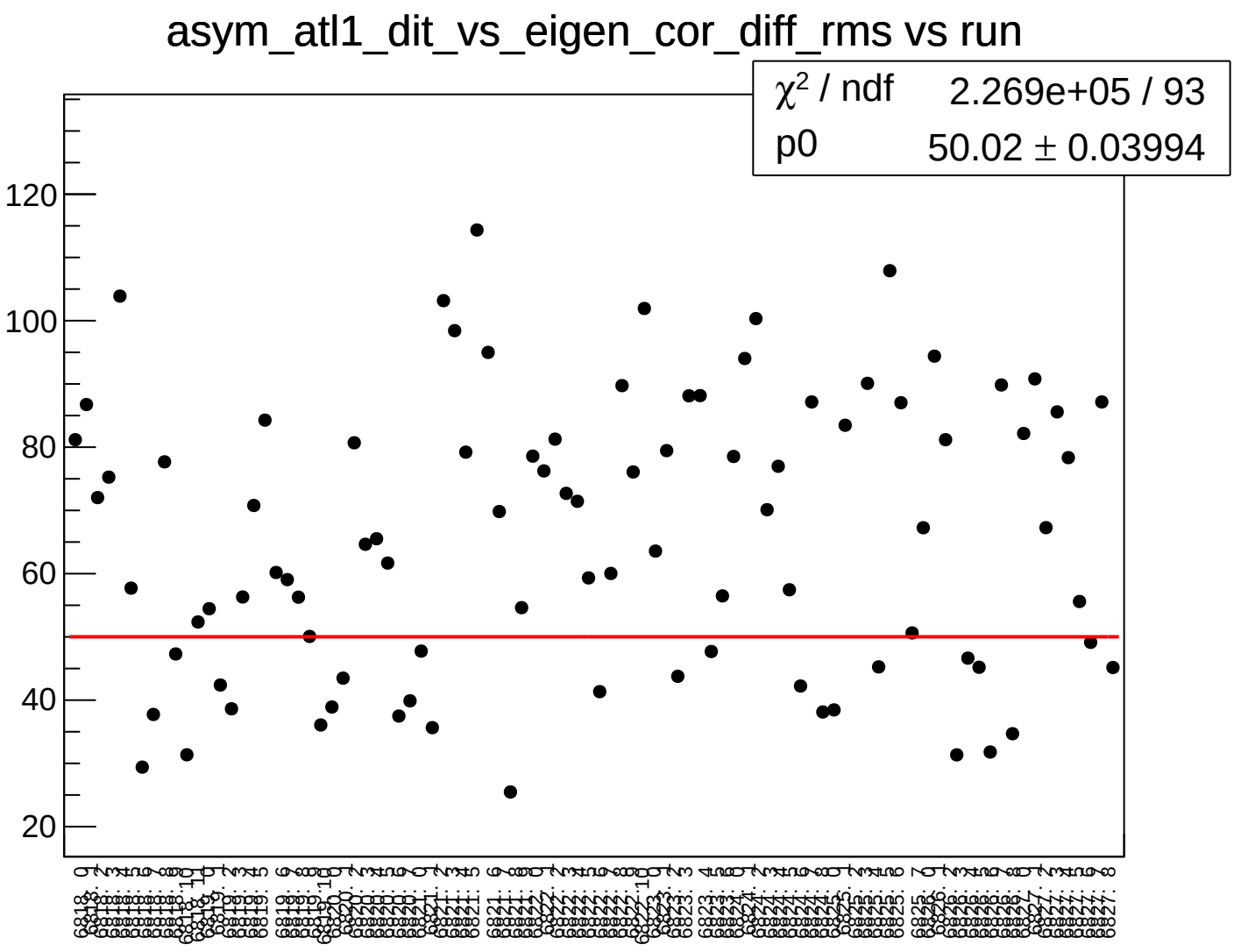

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 93
p0 2.221e−14 ± 2.312e−14
pull
Entries 94
Mean −5.082
Std Dev 0
pull1D
Entries 94
Mean −0.04058
Std Dev 0.9847

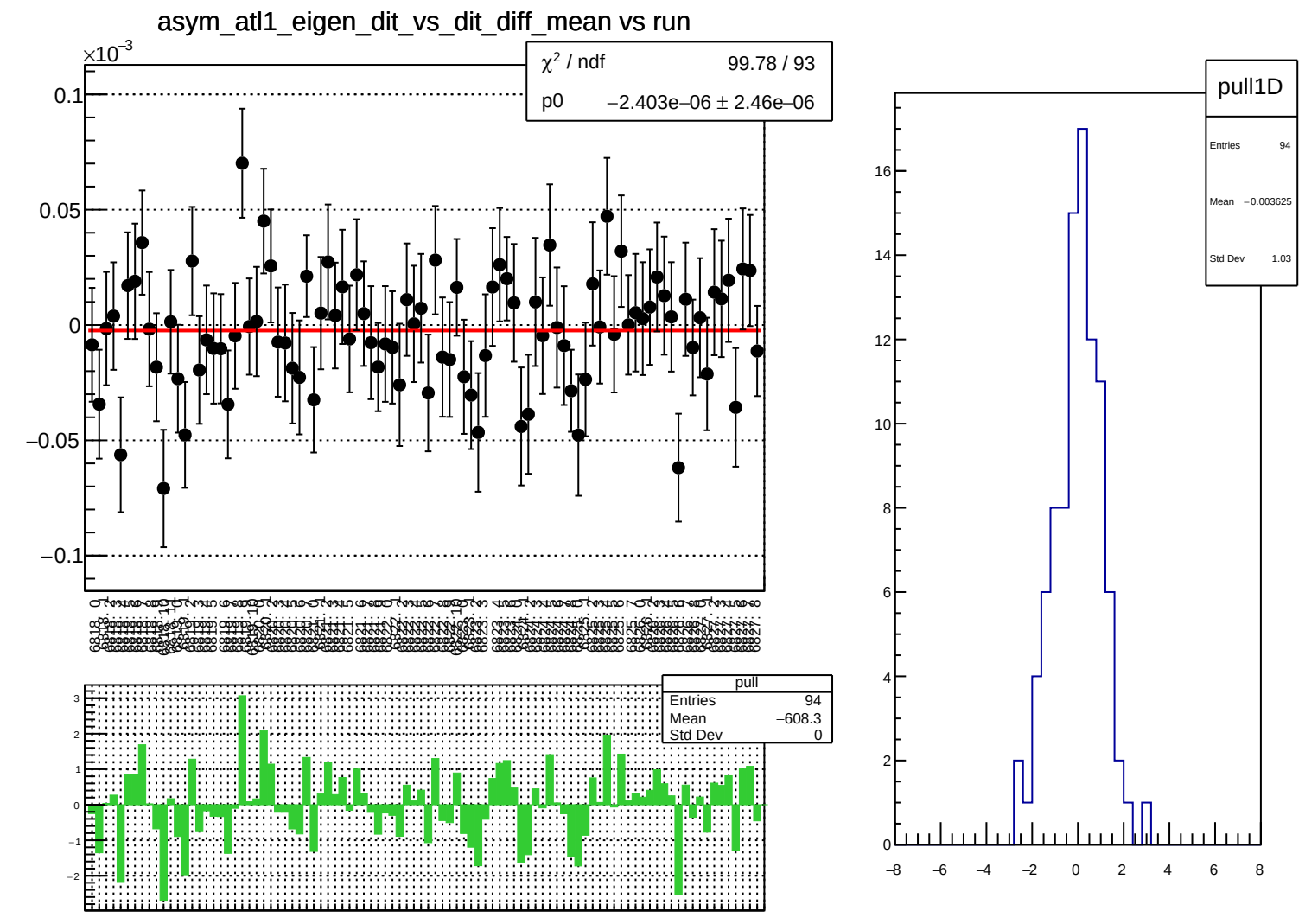

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.159e+06 / 93
p0 1.304e−11 ± 1.635e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

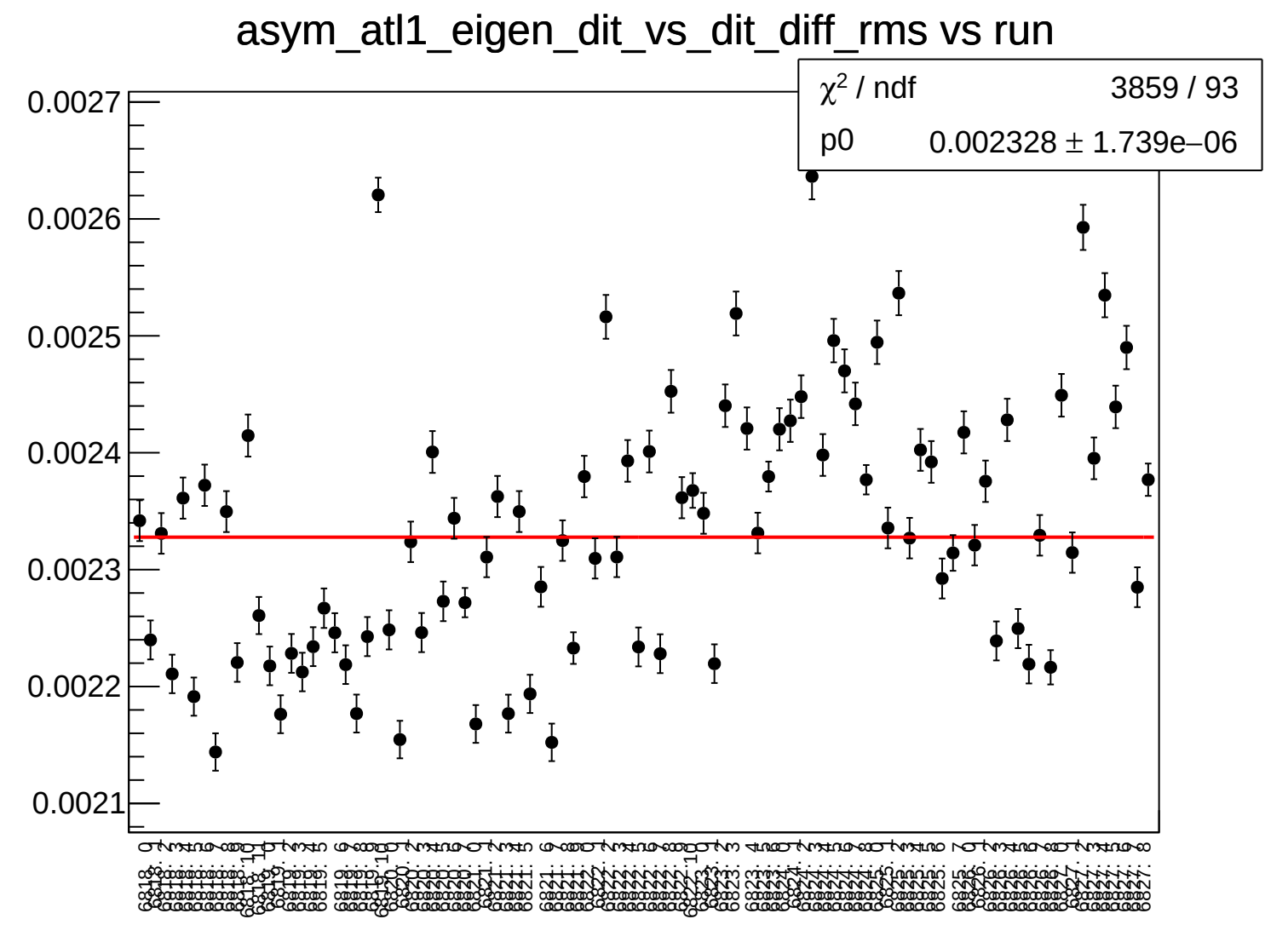

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 69.16 / 93
p0 0.07722 ± 0.05648
pull
Entries 94
Mean 67.79
Std Dev 0
pull1D
Entries 94
Mean −0.01684
Std Dev 0.8576

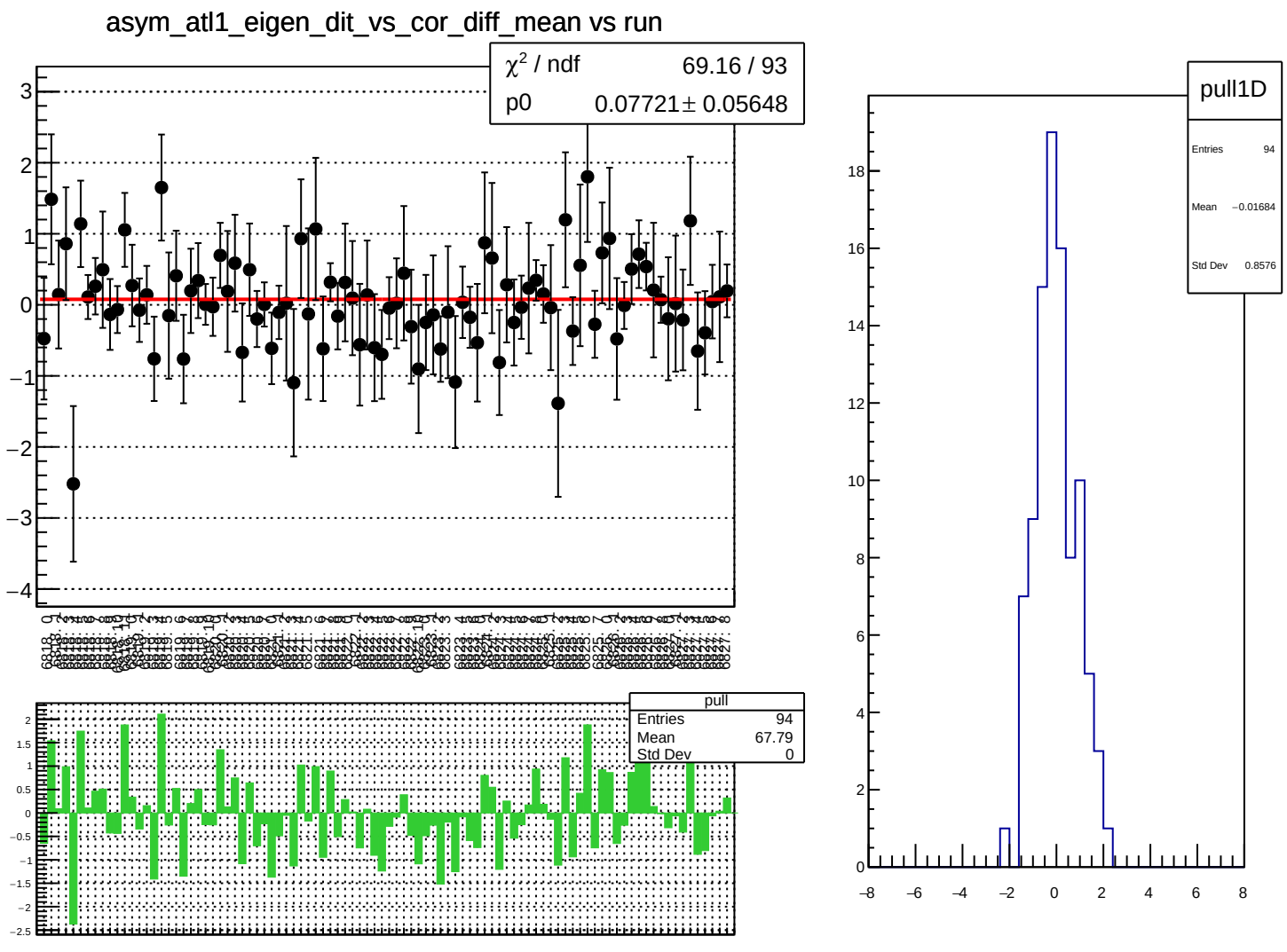

asym_atl1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.269e+05 / 93
p0 50.02 ± 0.03994
120
100
80
60
40
20

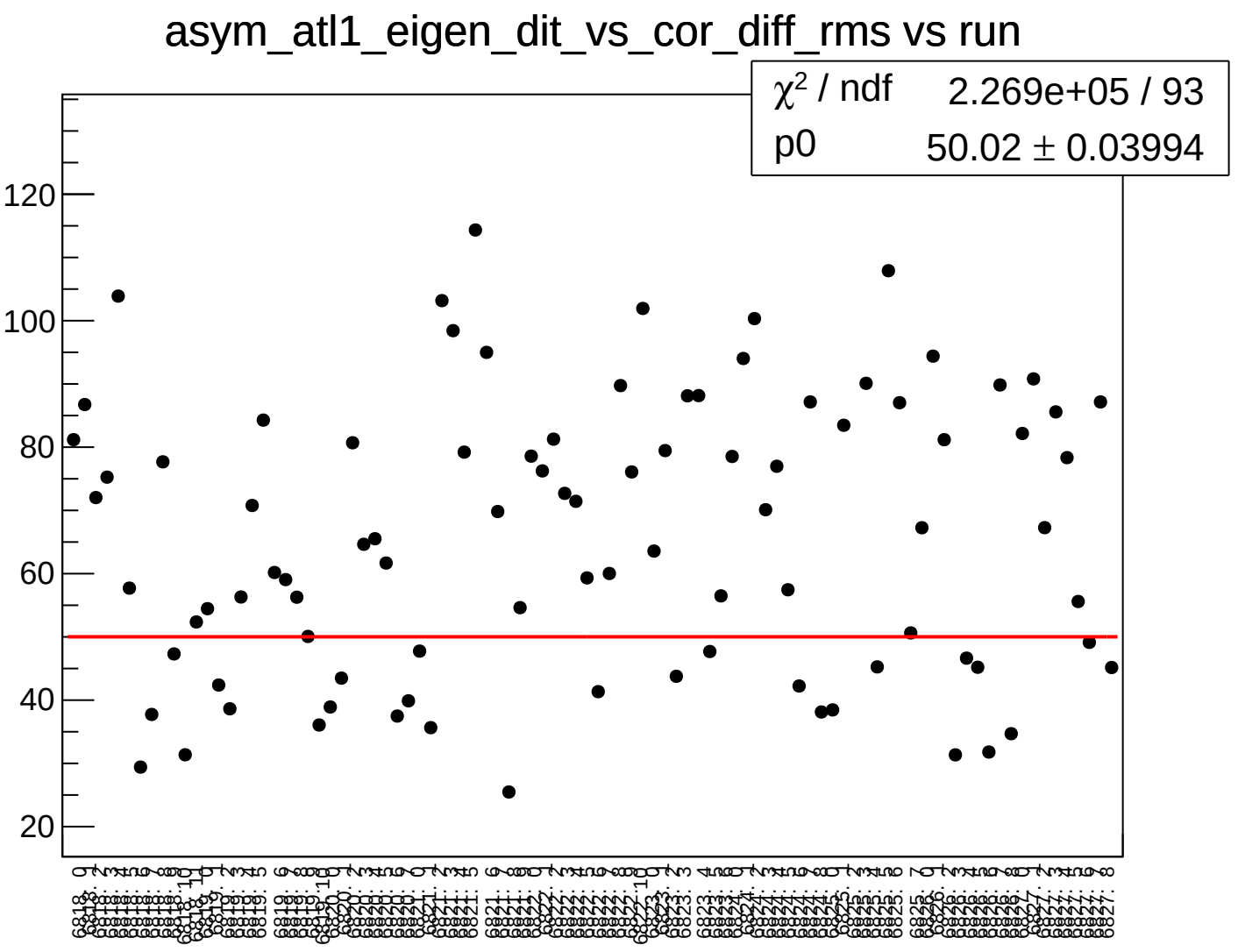

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.16 / 93
p0 0.07722 ± 0.05648
pull
Entries 94
Mean 67.79
Std Dev 0
pull1D
Entries 94
Mean −0.01684
Std Dev 0.8576

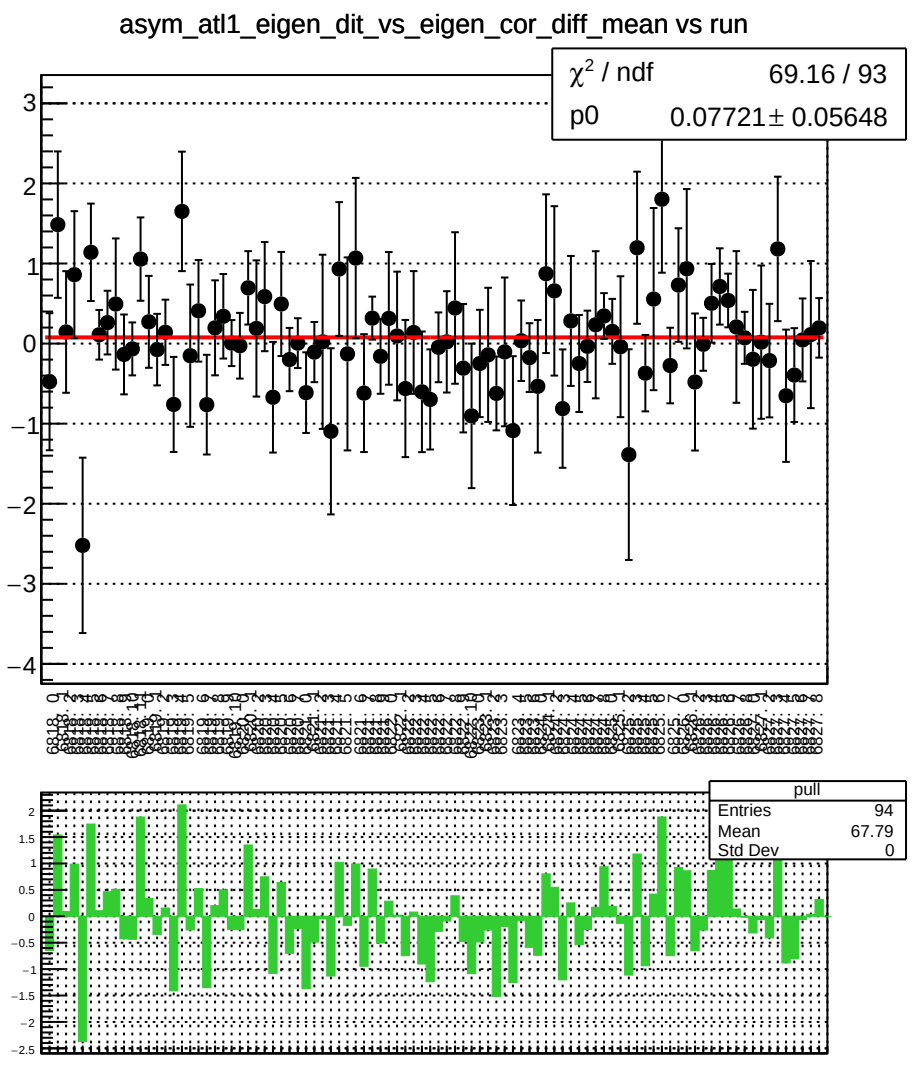

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 93
p0 50.02 ± 0.03994
120
100
80
60
40
20

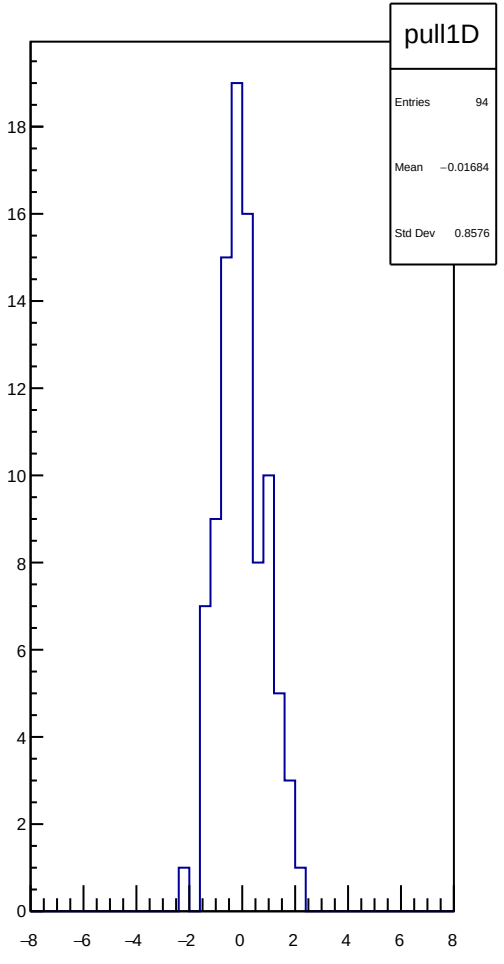

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.78 / 93
p0 −2.403e−06 ± 2.46e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −608.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003625
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

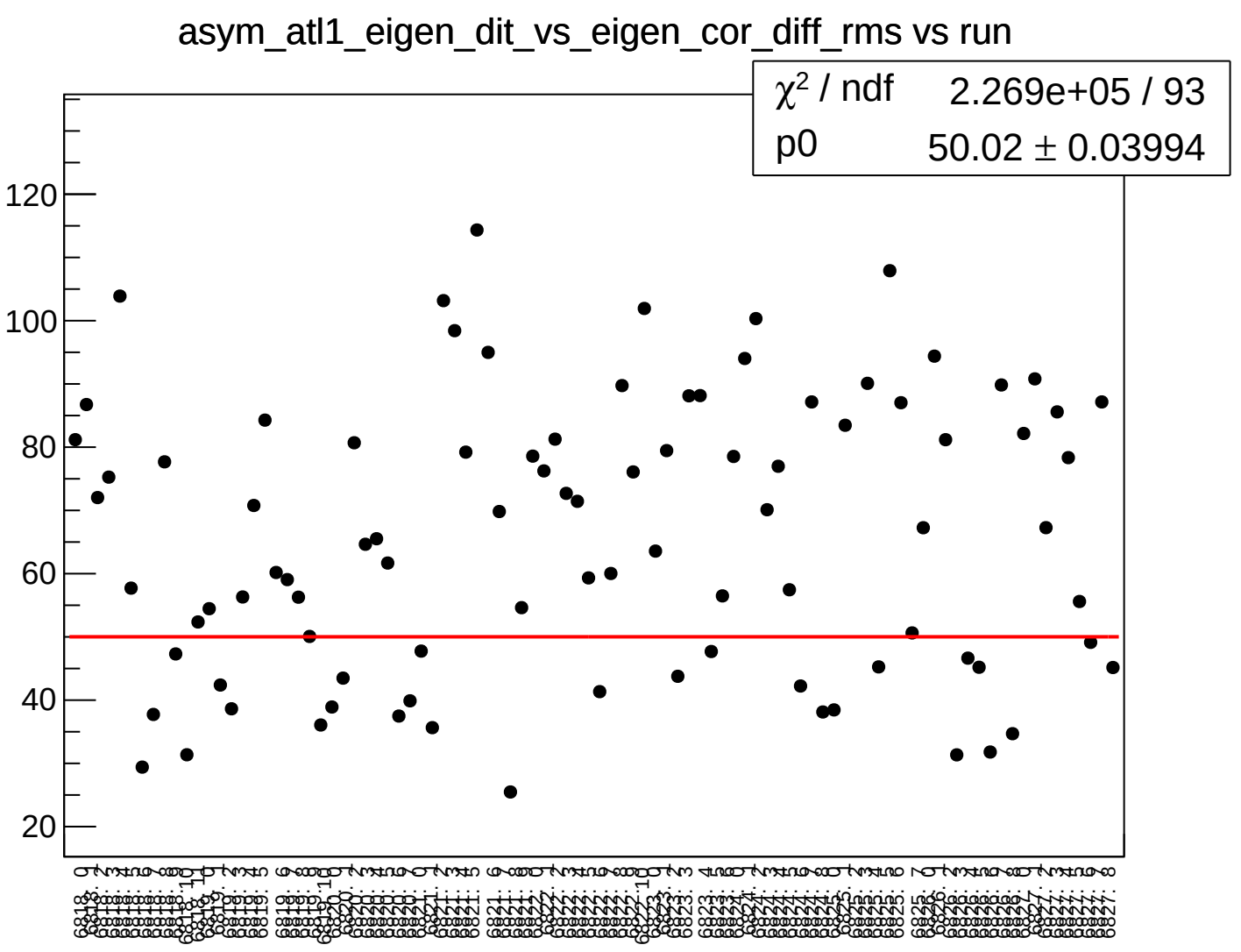

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3859 / 93
p0 0.002328 ± 1.739e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021

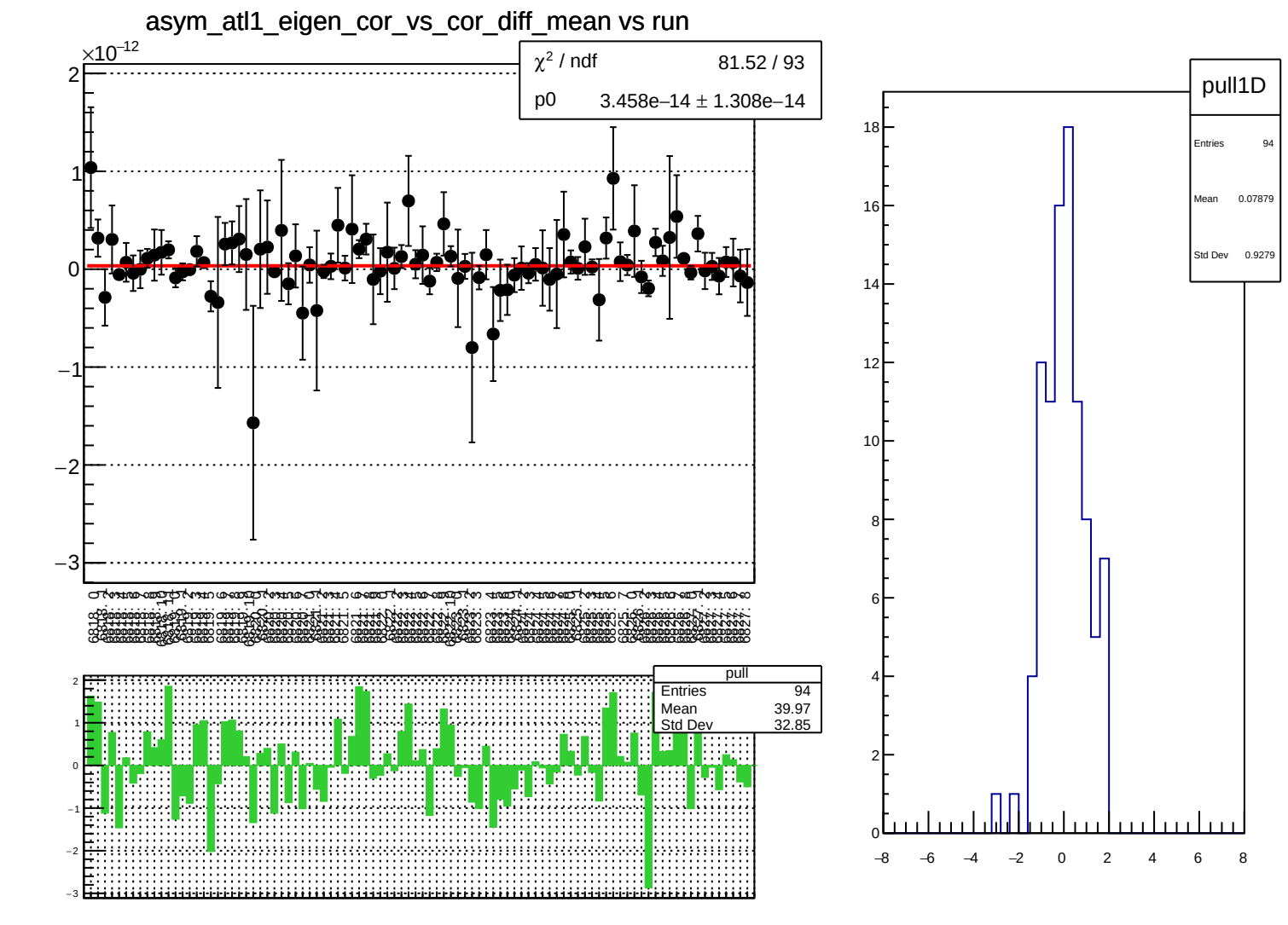

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.16 / 93
p0 0.07721 ± 0.05648
pull
Entries 94
Mean 67.79
Std Dev 0
pull1D
Entries 94
Mean −0.01684
Std Dev 0.8576

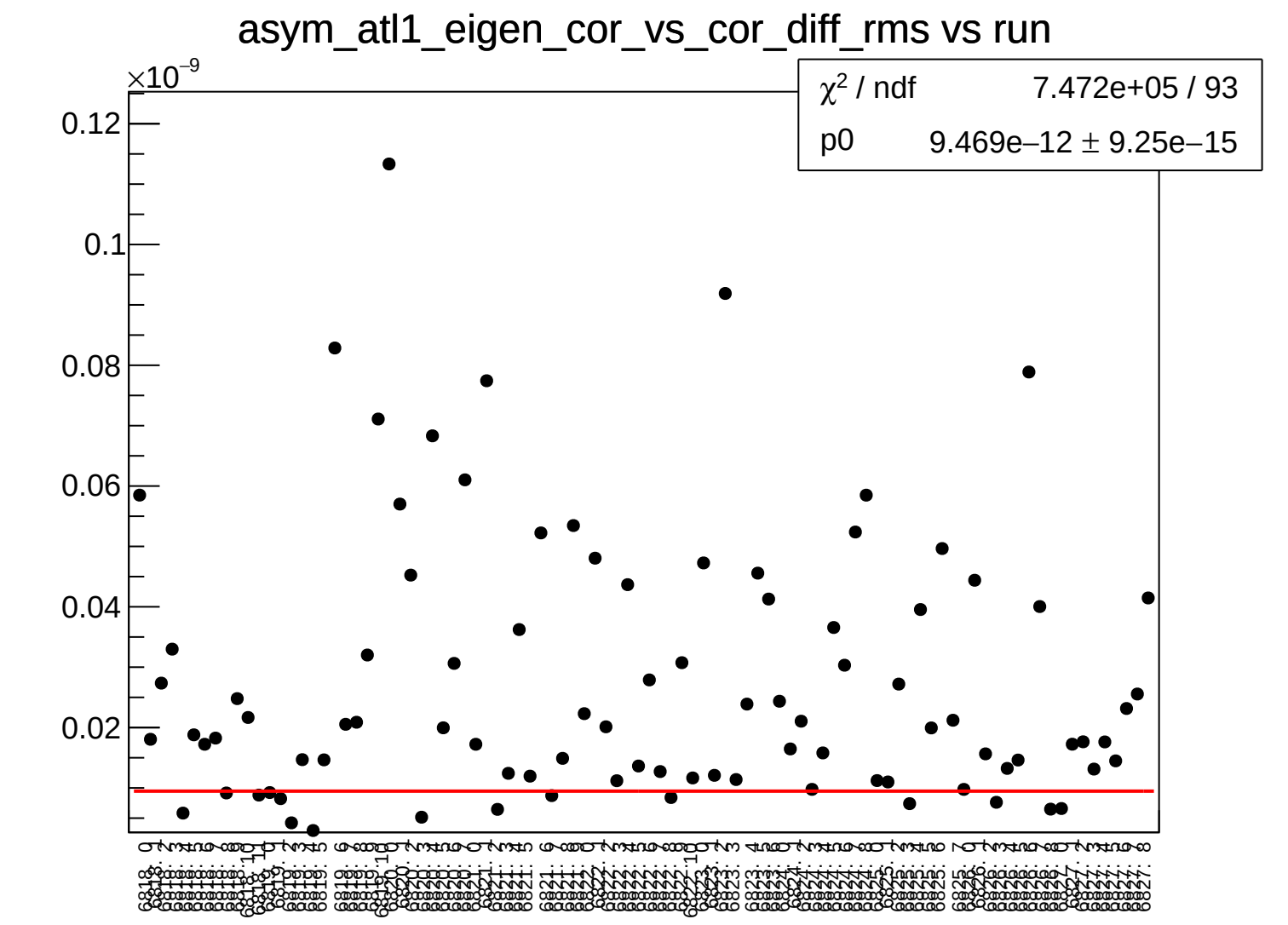

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 93
p0 50.02 ± 0.03994
120
100
80
60
40
20

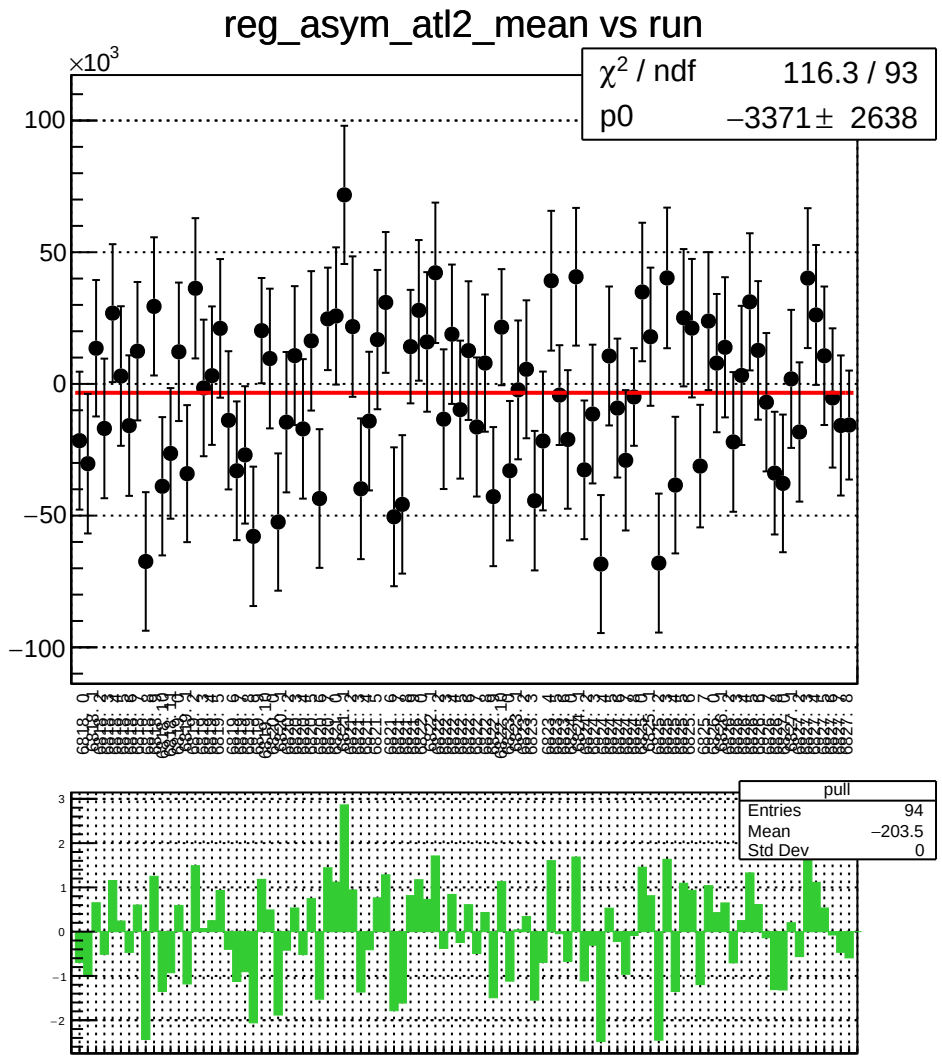

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.16 / 93
p0 0.07721 ± 0.05648
pull
Entries 94
Mean 67.79
Std Dev 0

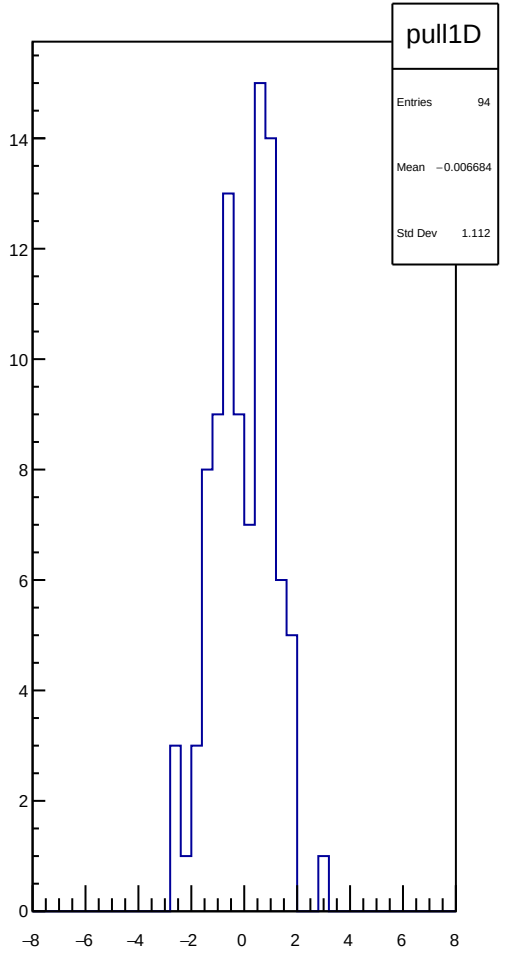

pull1D
Entries 94
Mean −0.01684
Std Dev 0.8576

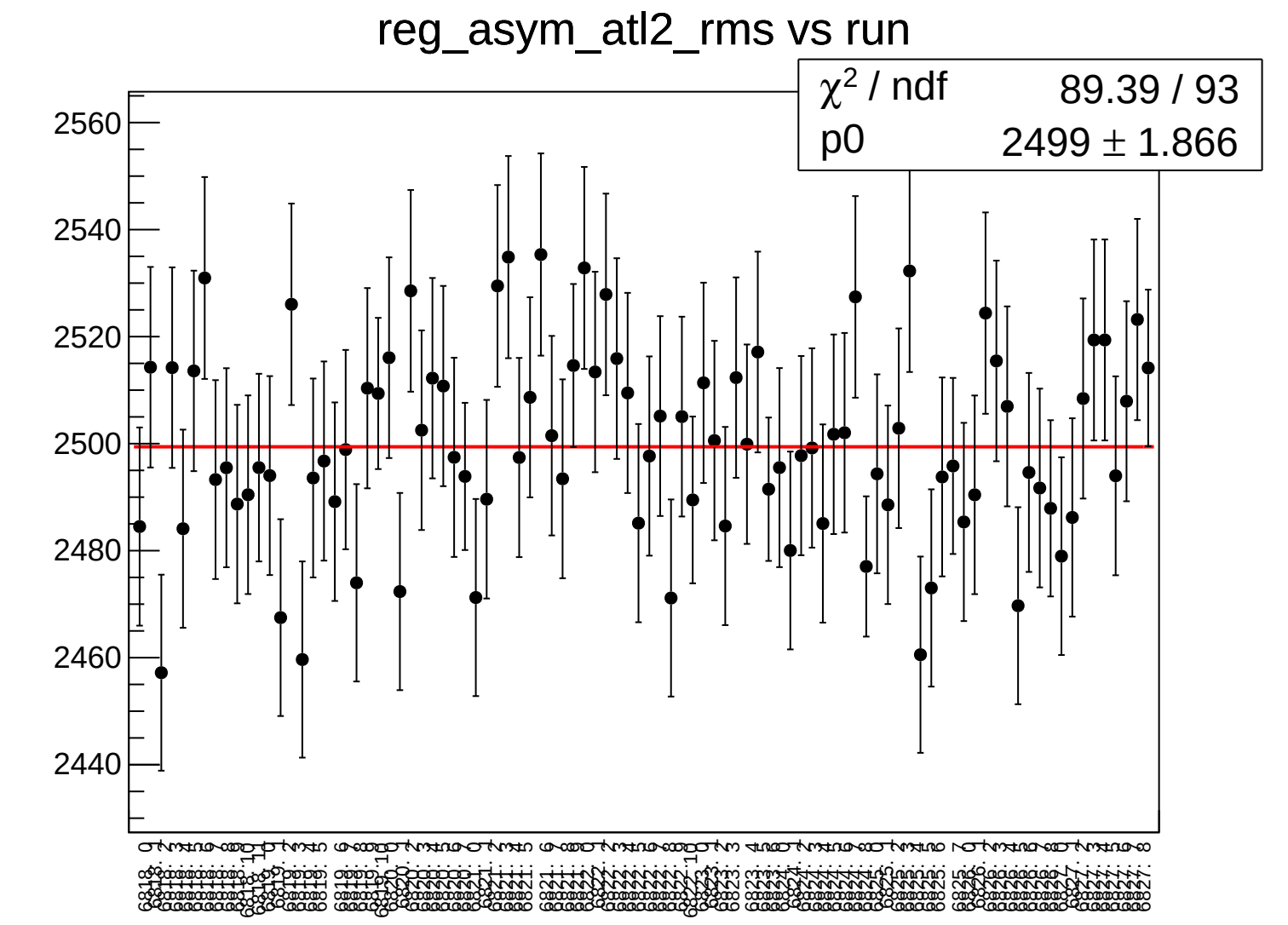

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.269e+05 / 93
p0 50.02 ± 0.03994
120
100
80
60
40
20

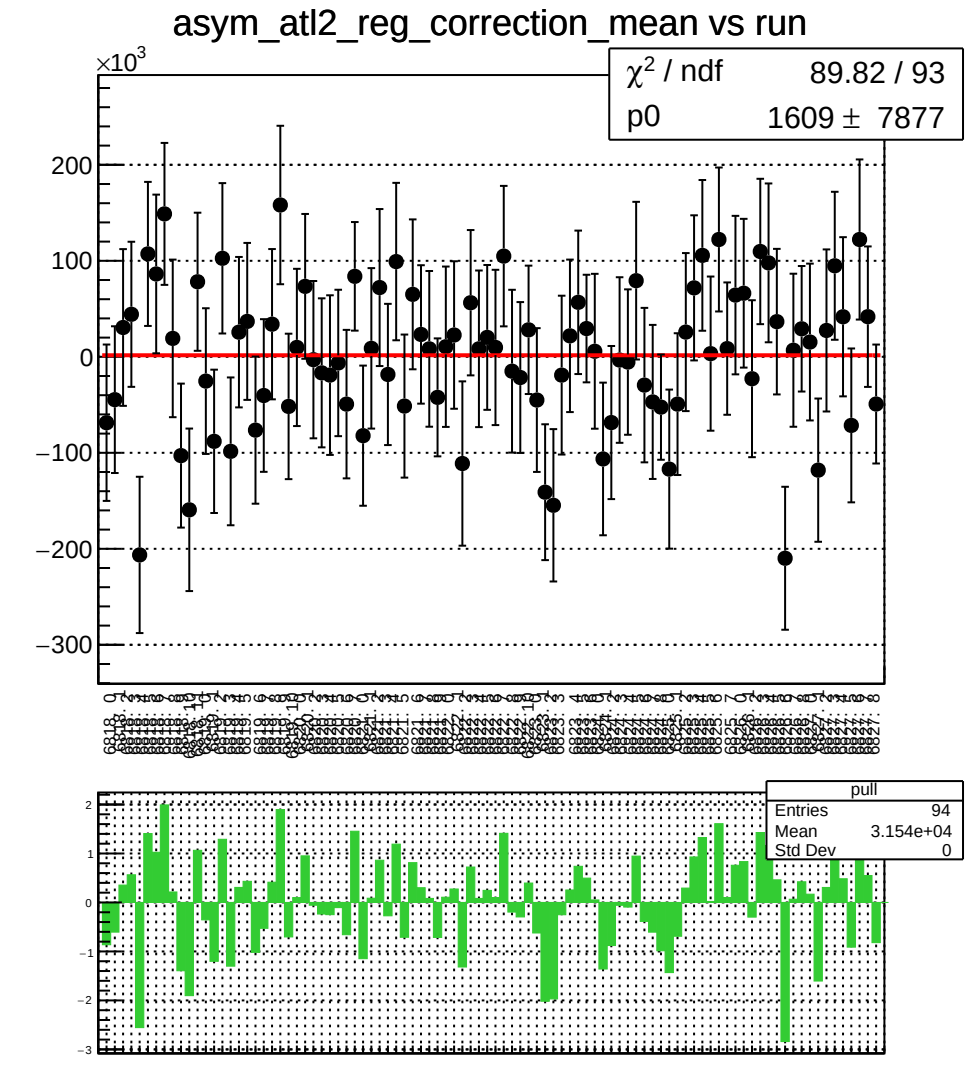

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.52 / 93
p0 3.458e−14 ± 1.308e−14
pull
Entries 94
Mean 39.97
Std Dev 32.85
pull1D
Entries 94
Mean 0.07879
Std Dev 0.9279

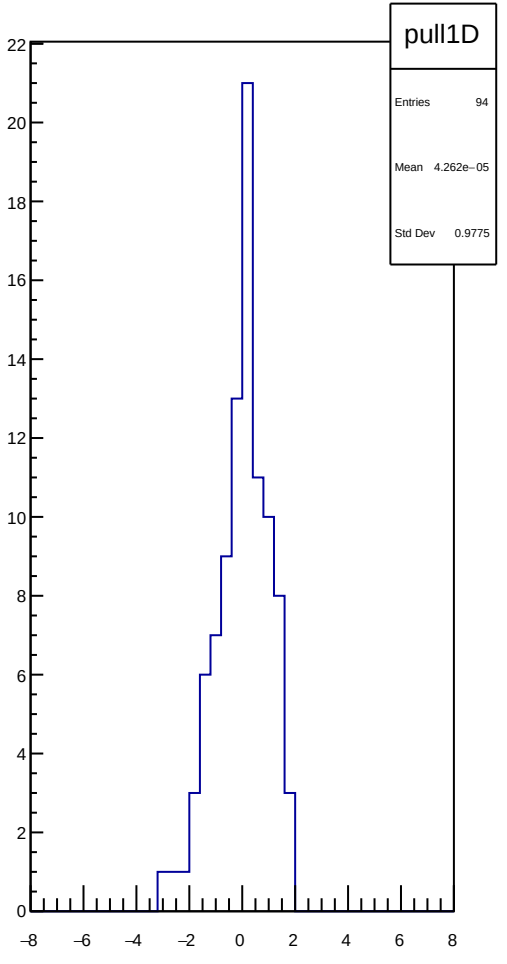

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 7.472e+05 / 93
p0 9.469e−12 ± 9.25e−15

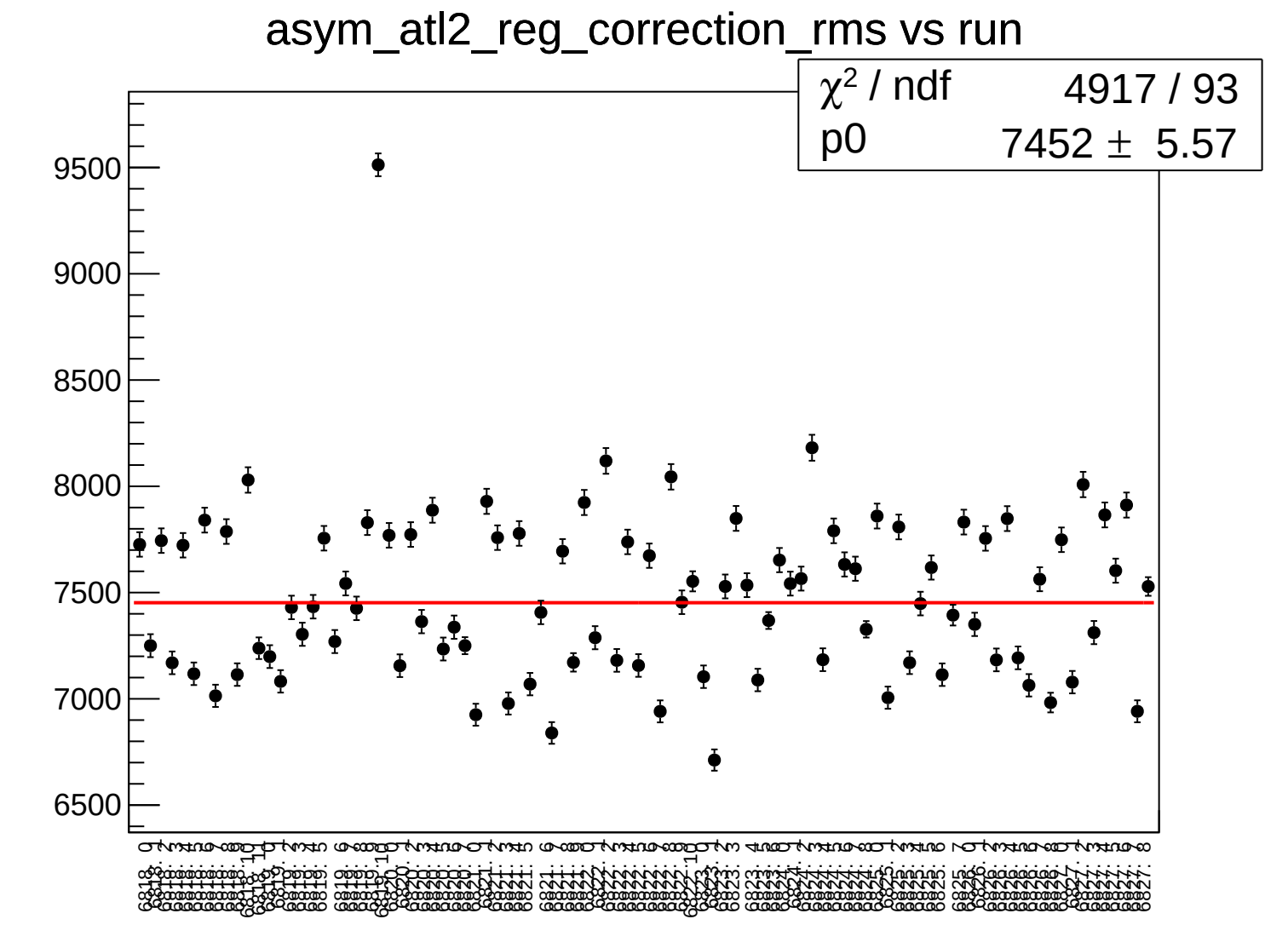

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 116.3 / 93
p0 −3371 ± 2638
100
50
0
−50
−100
pull
Entries 94
Mean −203.5
Std Dev 0
3
2
1
0
−1
−2

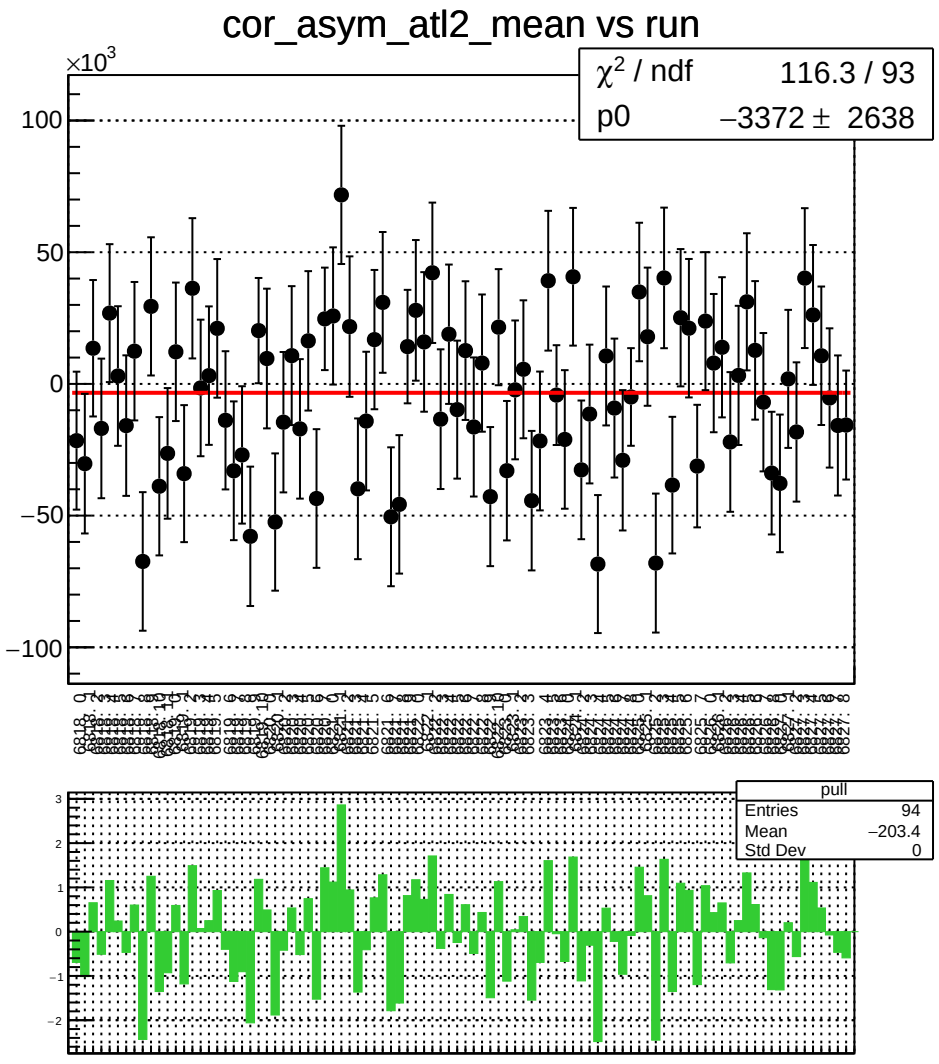

pull1D
Entries 94
Mean −0.006684
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

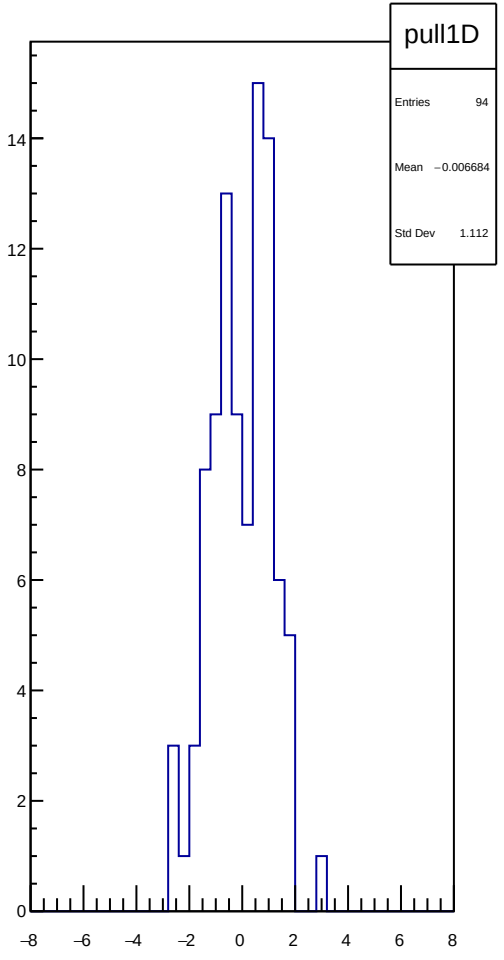

reg_asym_atl2_rms vs run
χ² / ndf 89.39 / 93
p0 2499 ± 1.866
2560
2540
2520
2500
2480
2460
2440

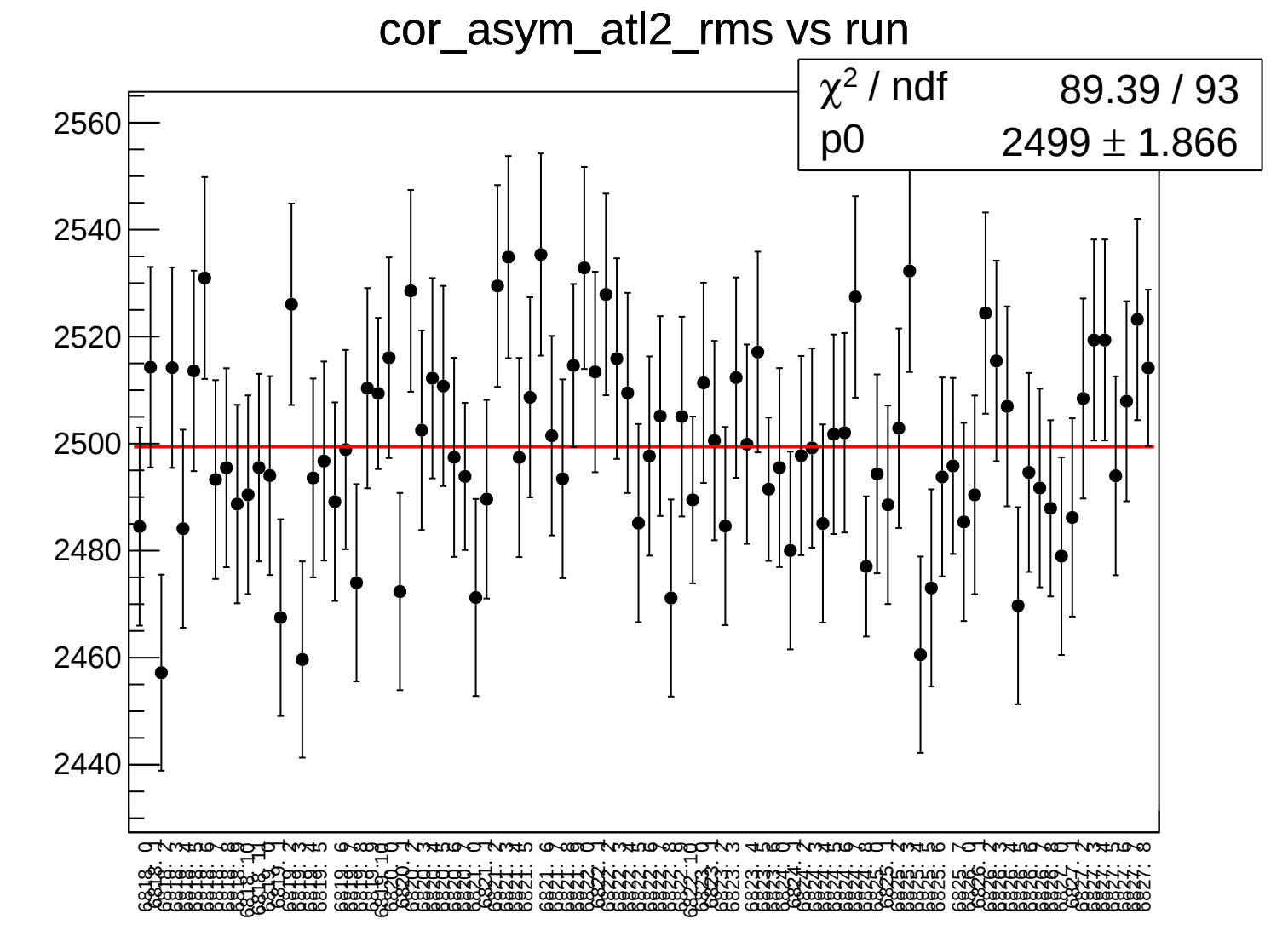

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 89.82 / 93
p0 1609 ± 7877
200
100
0
−100
−200
−300
pull
Entries 94
Mean 3.154e+04
Std Dev 0
2
1
0
−1
−2
−3

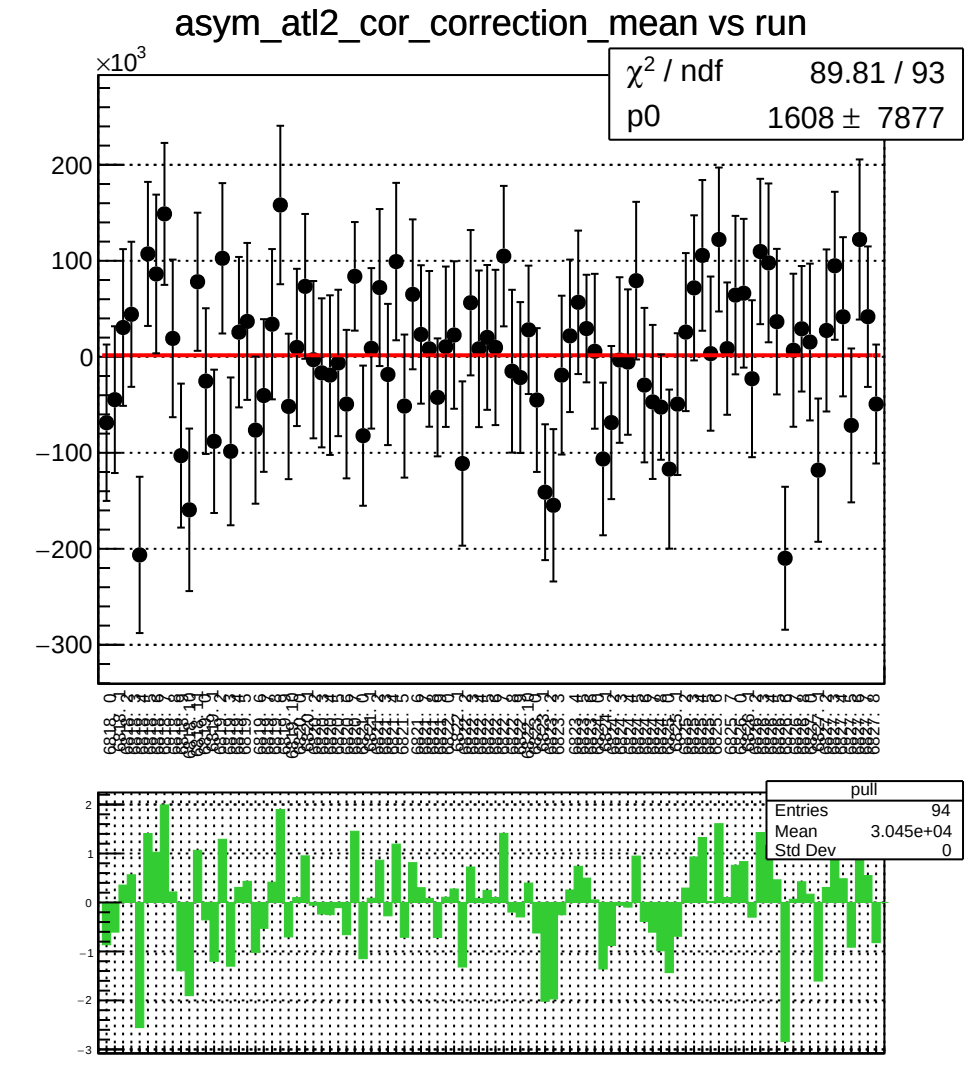

pull1D
Entries 94
Mean 4.262e−05
Std Dev 0.9775
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

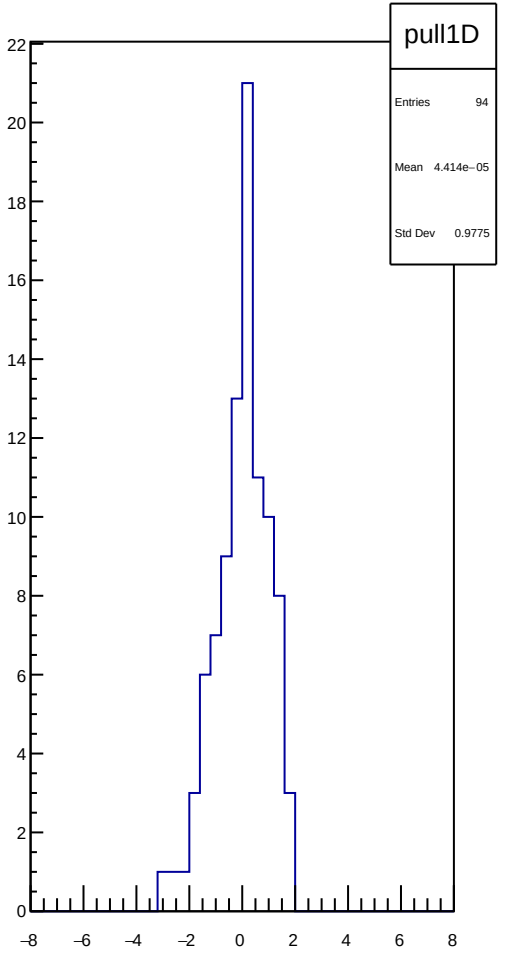

asym_atl2_reg_correction_rms vs run
χ² / ndf 4917 / 93
p0 7452 ± 5.57
9500
9000
8500
8000
7500
7000
6500

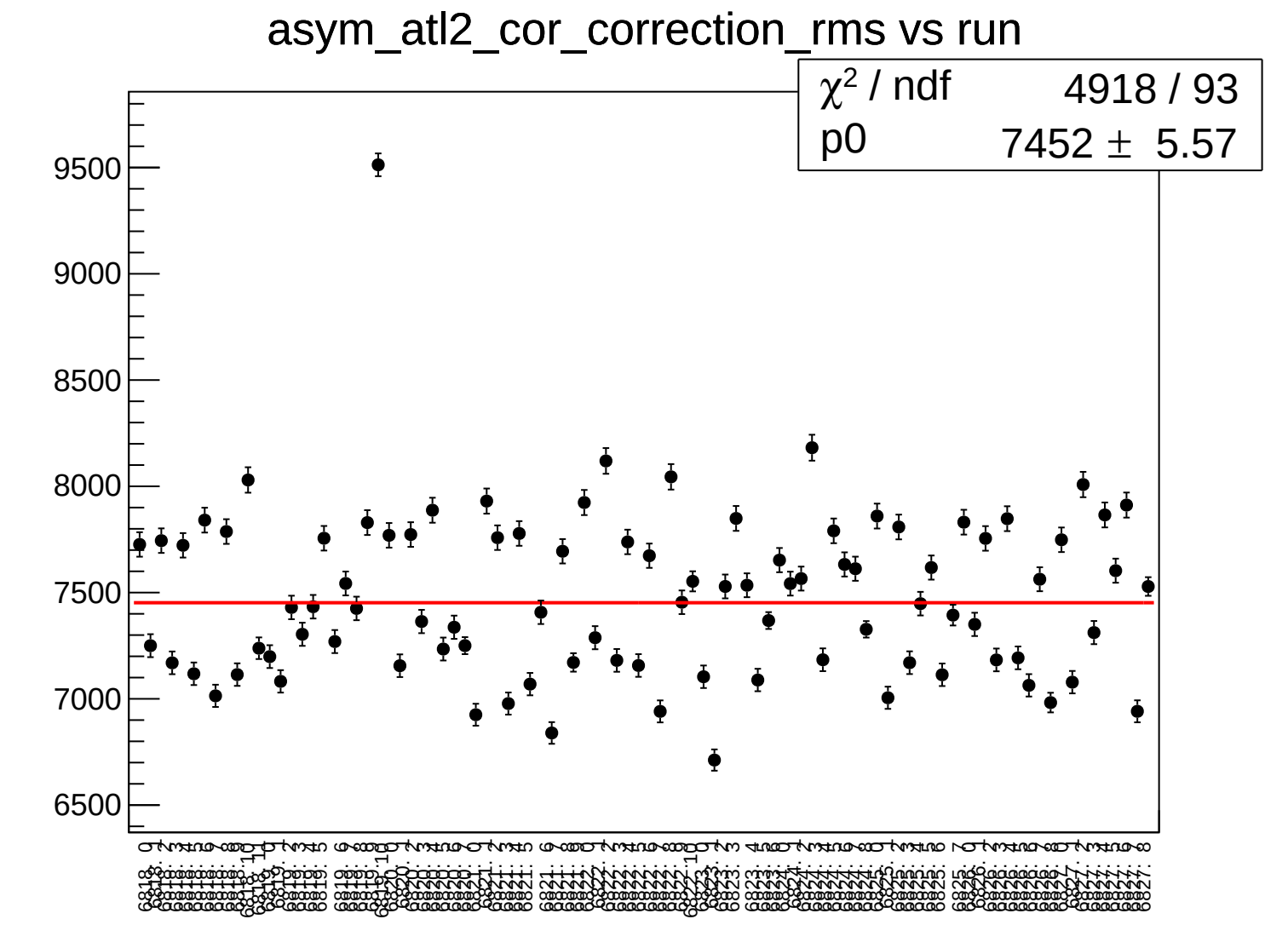

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 116.3 / 93
p0 −3372 ± 2638
100
50
0
−50
−100
pull
Entries 94
Mean −203.4
Std Dev 0
3
2
1
0
−1
−2

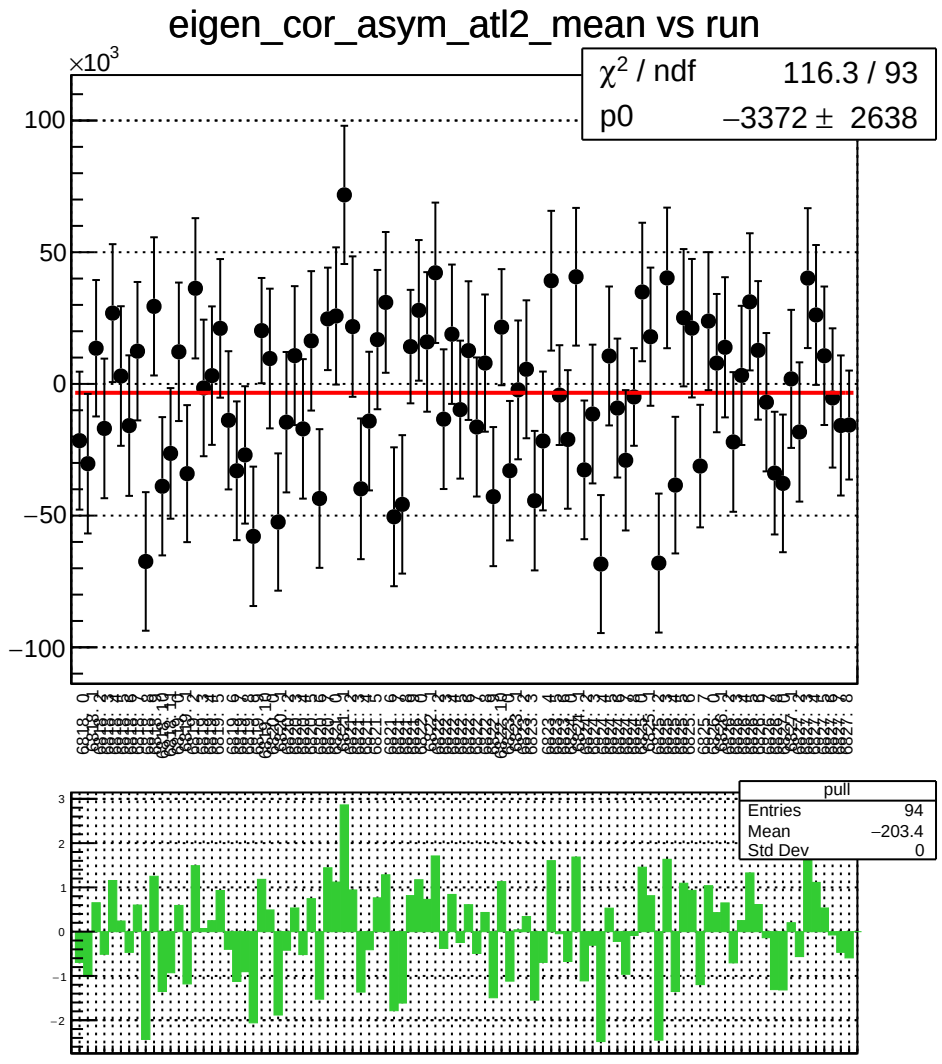

pull1D
Entries 94
Mean −0.006684
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

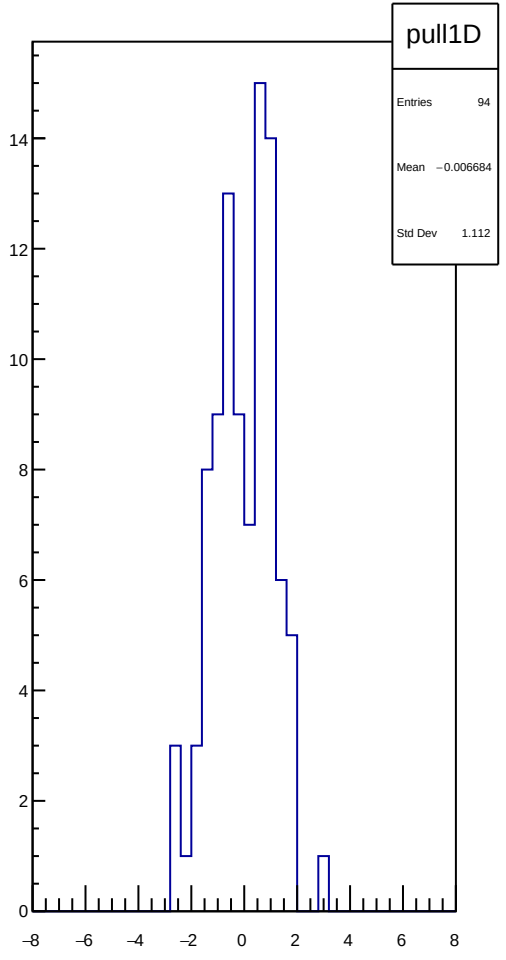

cor_asym_atl2_rms vs run
χ^2 / ndf 89.39 / 93
p0 2499 ± 1.866
2560
2540
2520
2500
2480
2460
2440

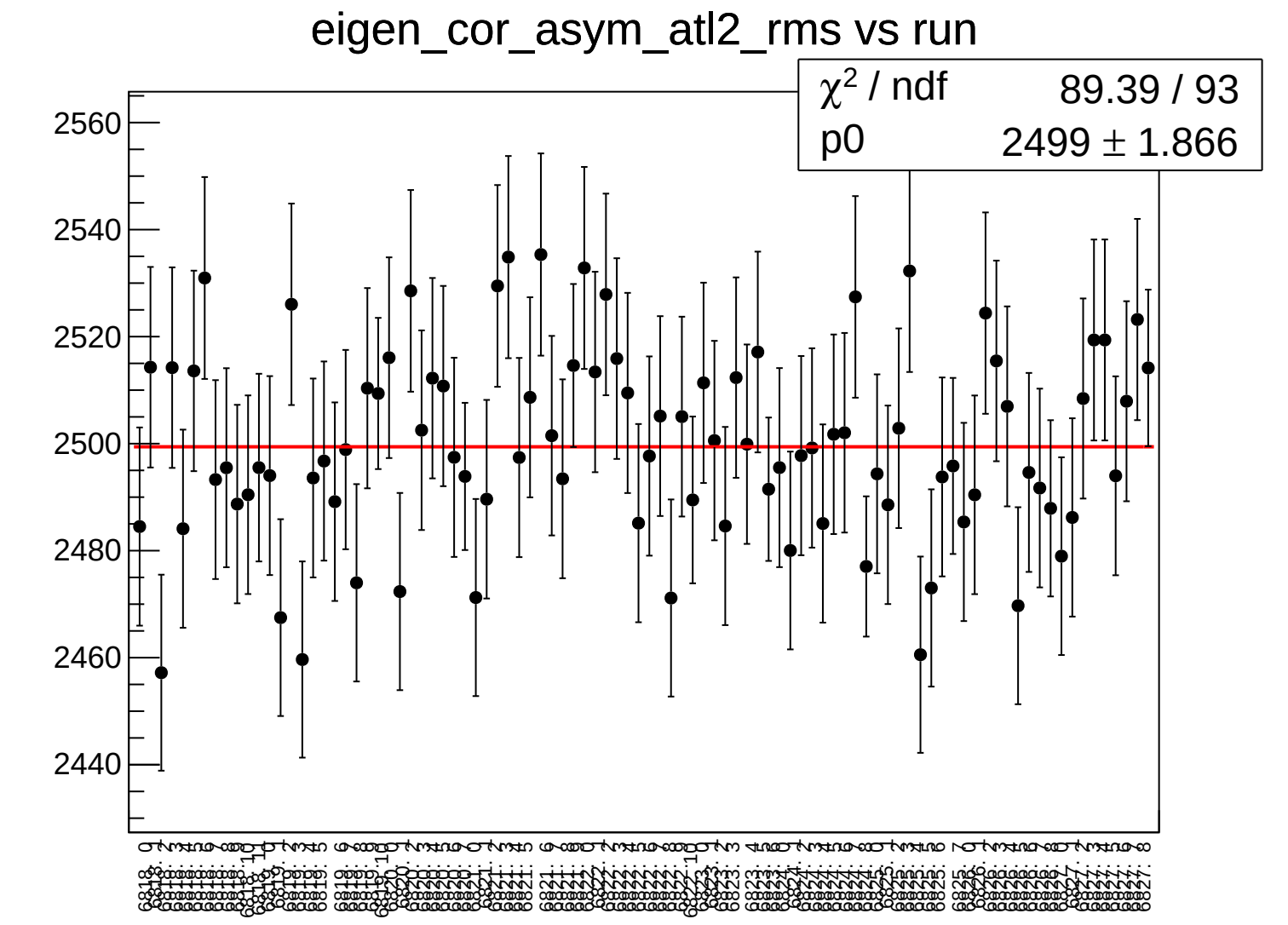

asym_atl2_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.81 / 93
p0 1608 ± 7877
200
100
0
−100
−200
−300
pull
Entries 94
Mean 3.045e+04
Std Dev 0
2
1
0
−1
−2
−3

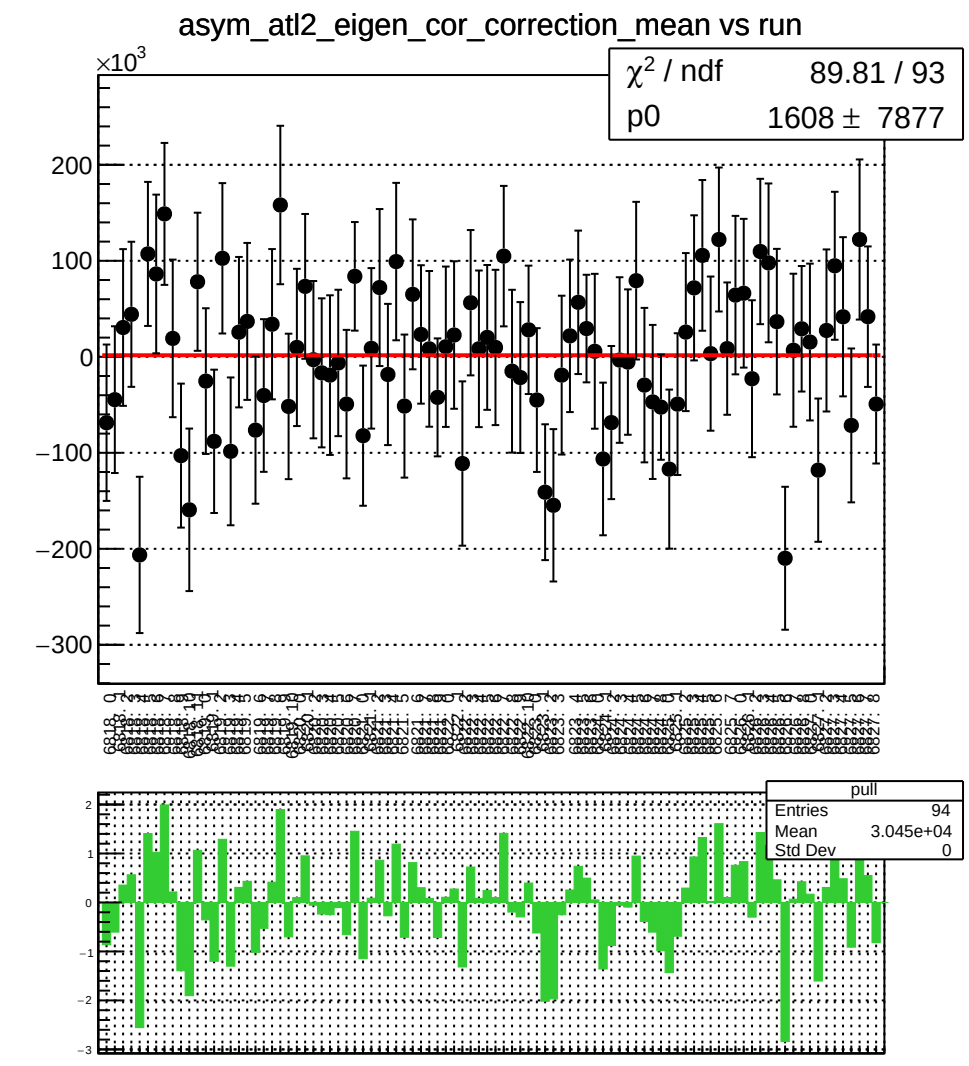

pull1D
Entries 94
Mean 4.414e−05
Std Dev 0.9775
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

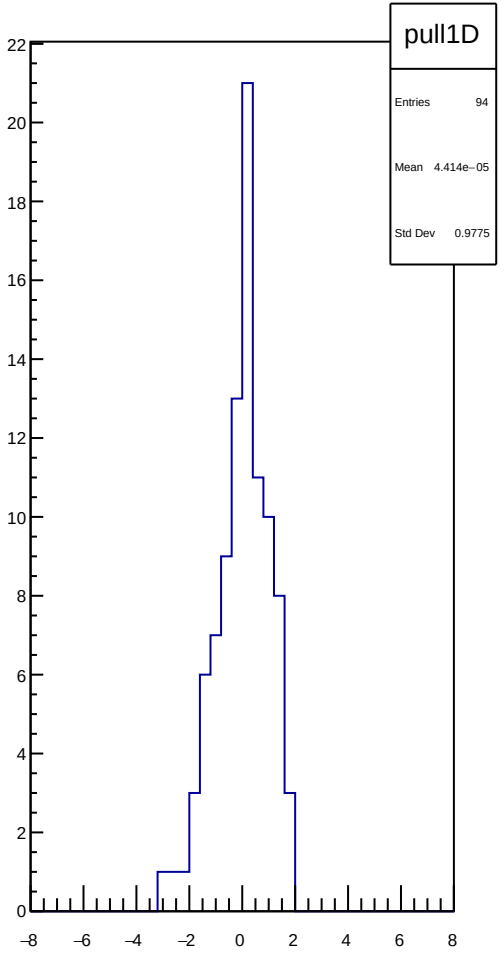

asym_atl2_cor_correction_rms vs run
χ² / ndf 4918 / 93
p0 7452 ± 5.57
9500
9000
8500
8000
7500
7000
6500

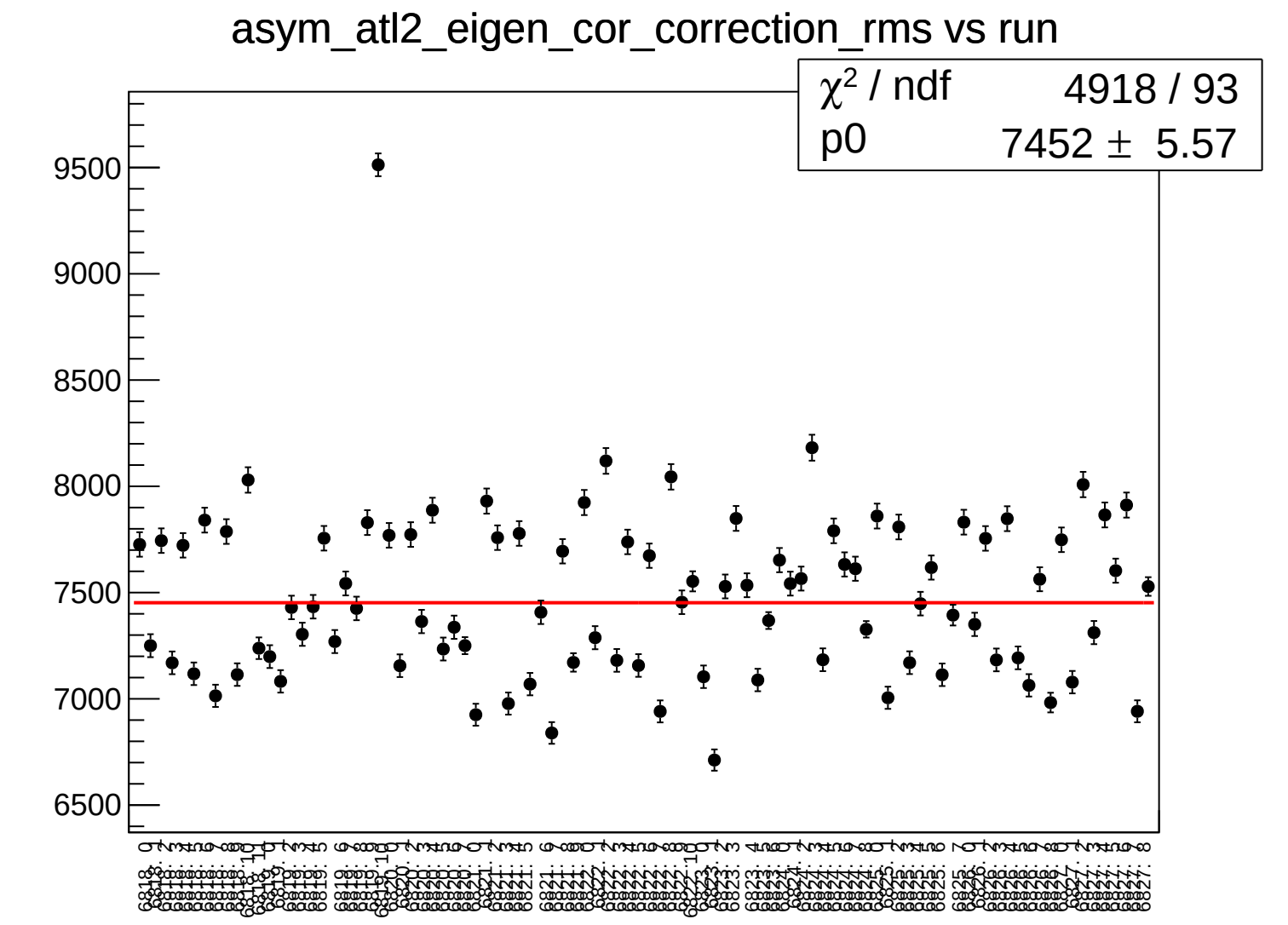

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 116.3 / 93
p0 −3372 ± 2638
100
50
0
−50
−100
pull
Entries 94
Mean −203.4
Std Dev 0
3
2
1
0
−1
−2

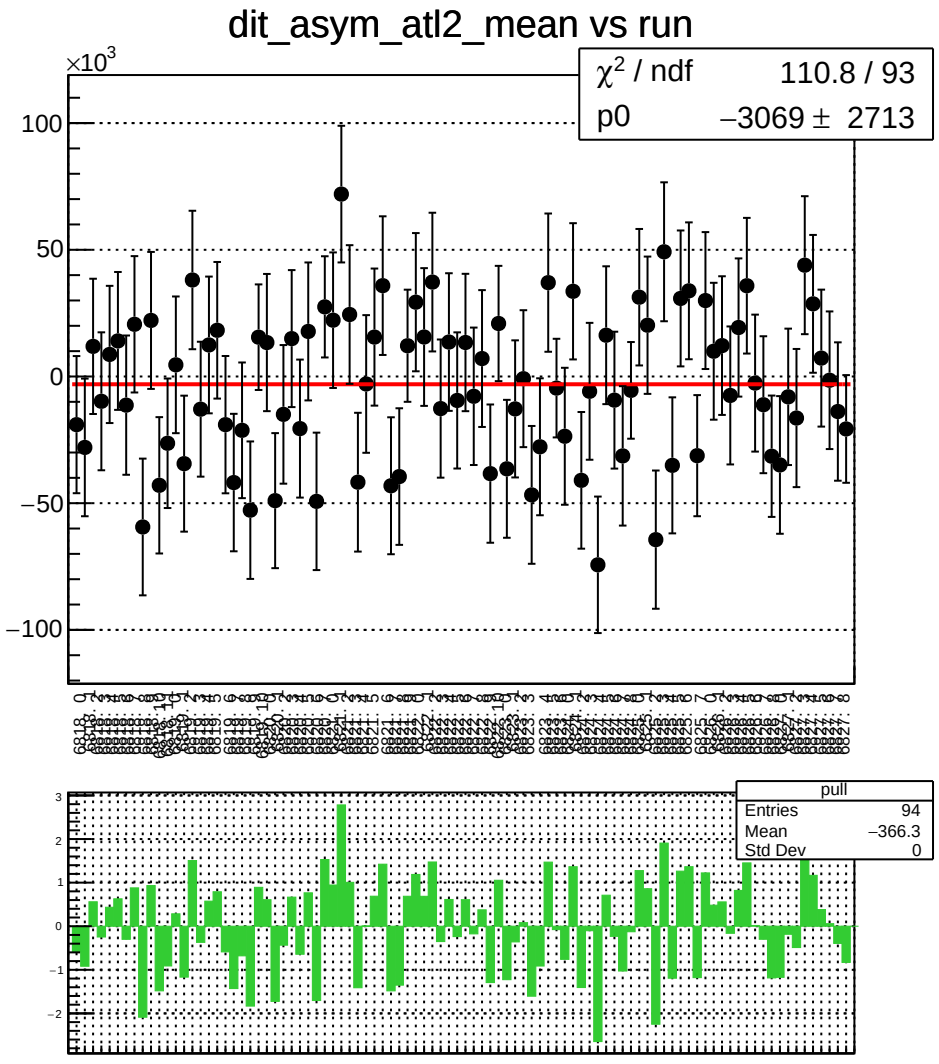

pull1D
Entries 94
Mean −0.006684
Std Dev 1.112
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

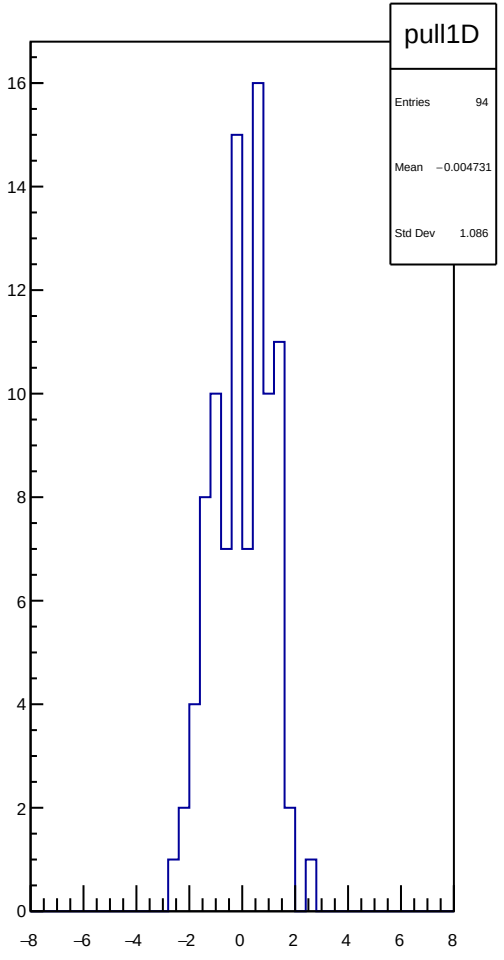

eigen_cor_asym_atl2_rms vs run
χ² / ndf 89.39 / 93
p0 2499 ± 1.866
2560
2540
2520
2500
2480
2460
2440

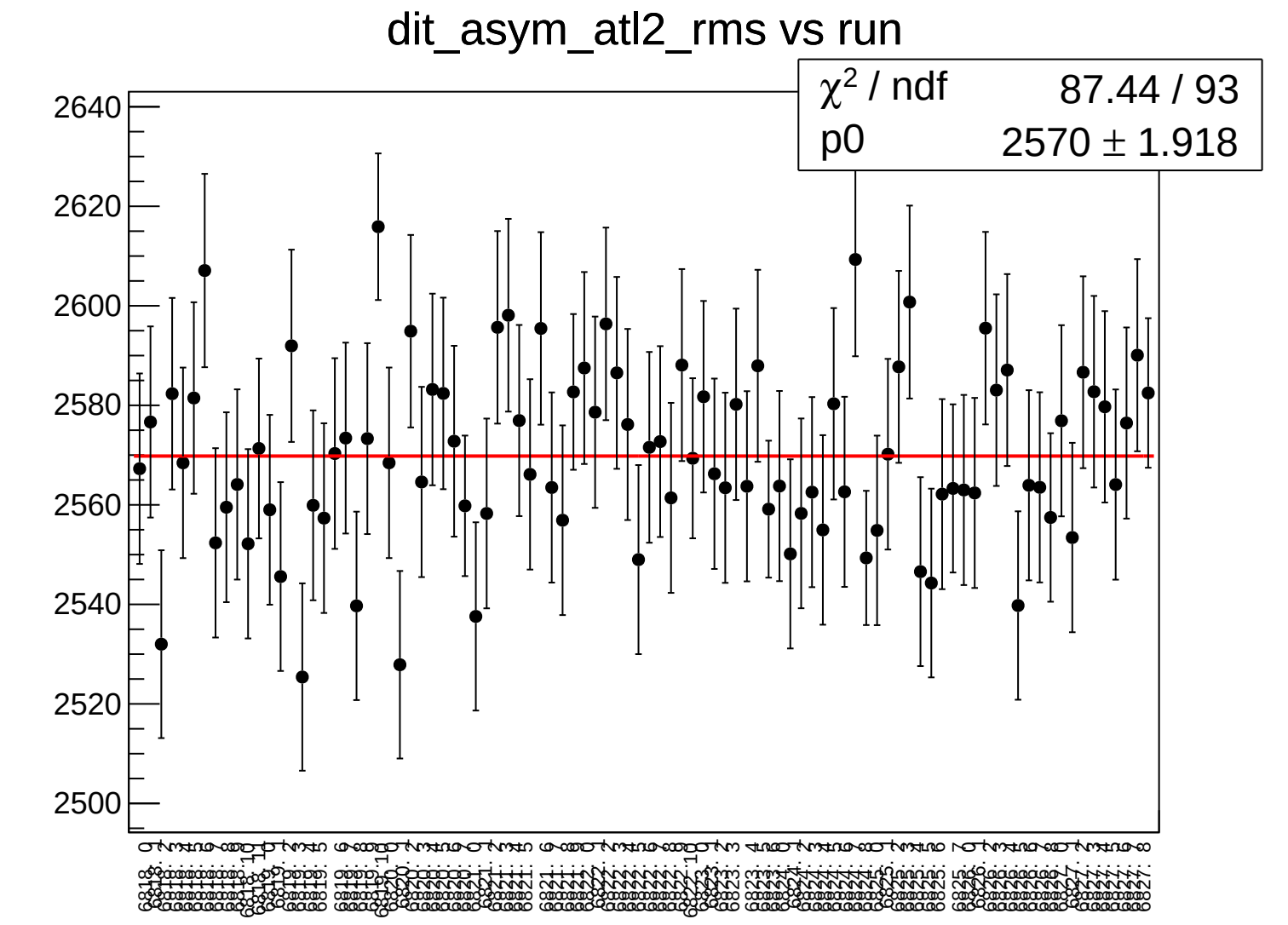

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.81 / 93
p0 1608 ± 7877
200
100
0
−100
−200
−300
pull
Entries 94
Mean 3.045e+04
Std Dev 0
2
1
0
−1
−2
−3

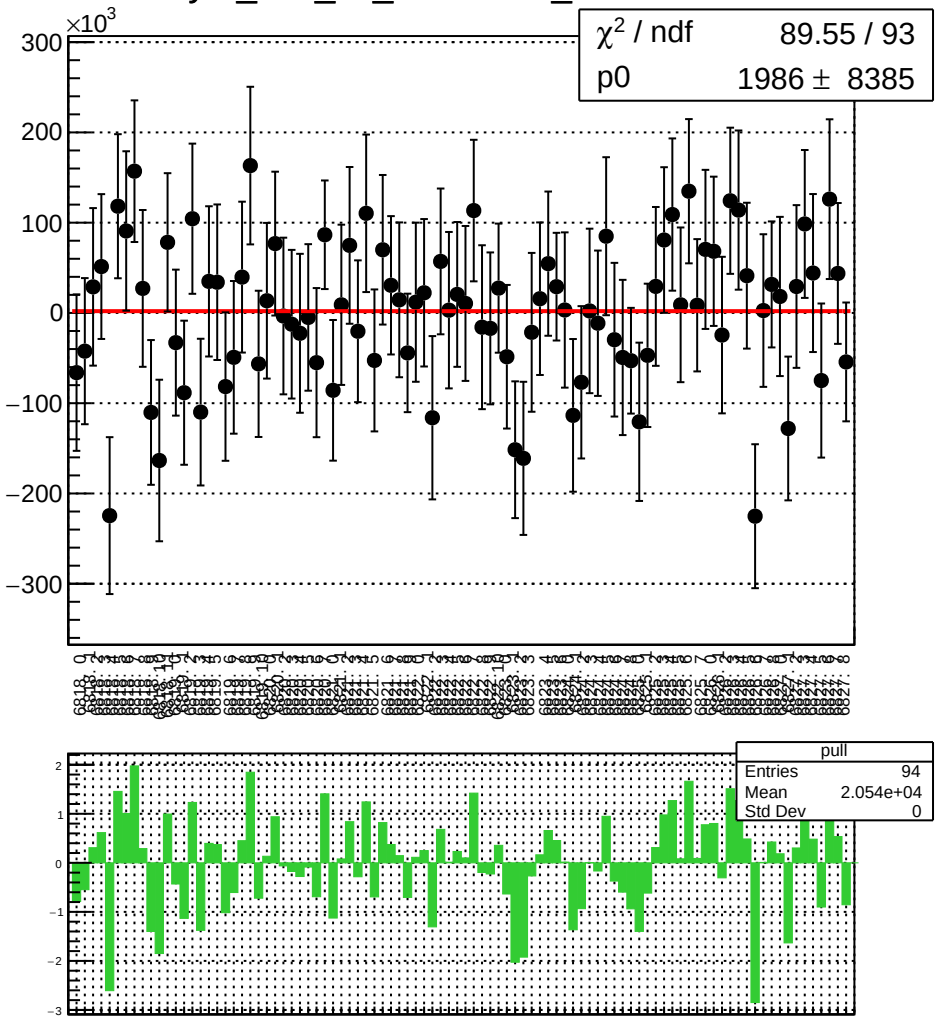

pull1D
Entries 94
Mean 4.414e−05
Std Dev 0.9775
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

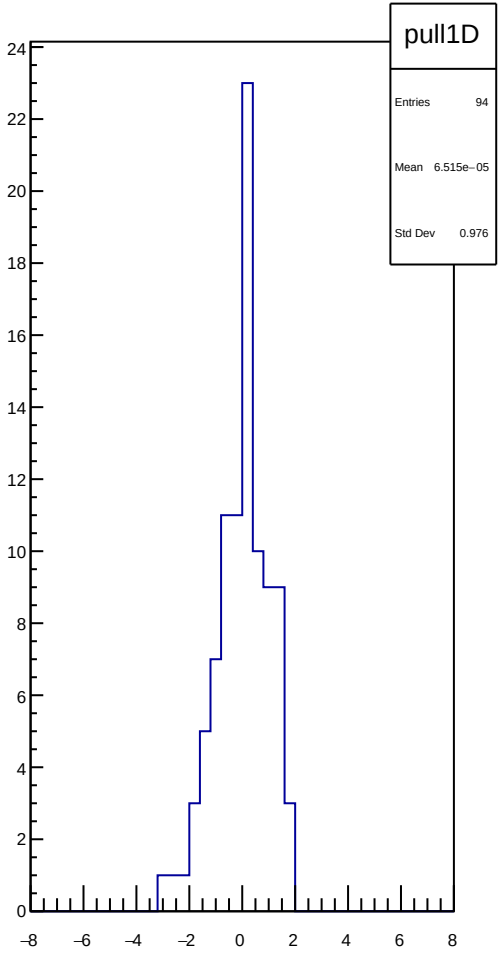

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4918 / 93
p0 7452 ± 5.57
9500
9000
8500
8000
7500
7000
6500

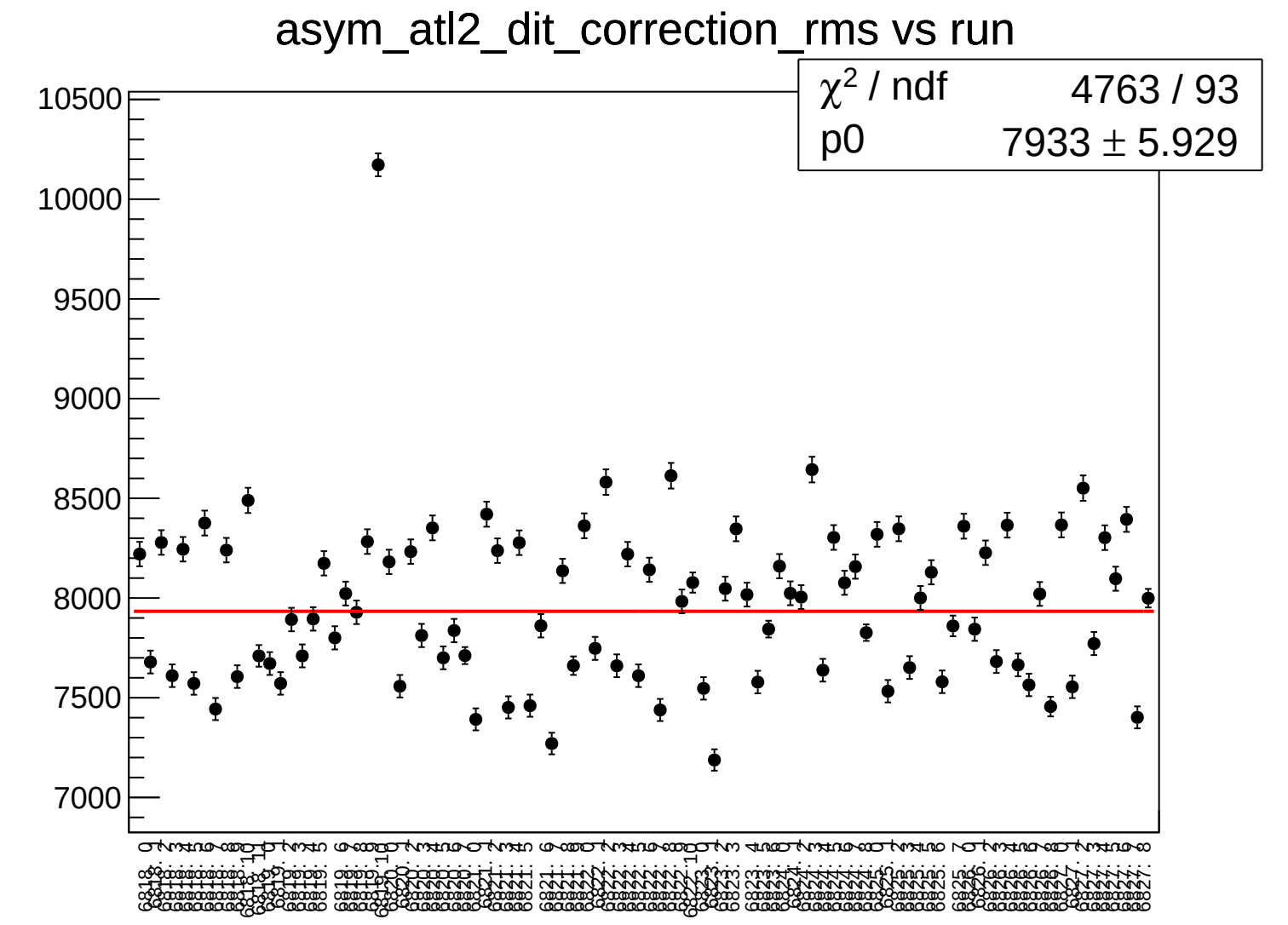

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 110.8 / 93
p0 −3069 ± 2713
100
50
0
−50
−100
pull
Entries 94
Mean −366.3
Std Dev 0
3
2
1
0
−1
−2

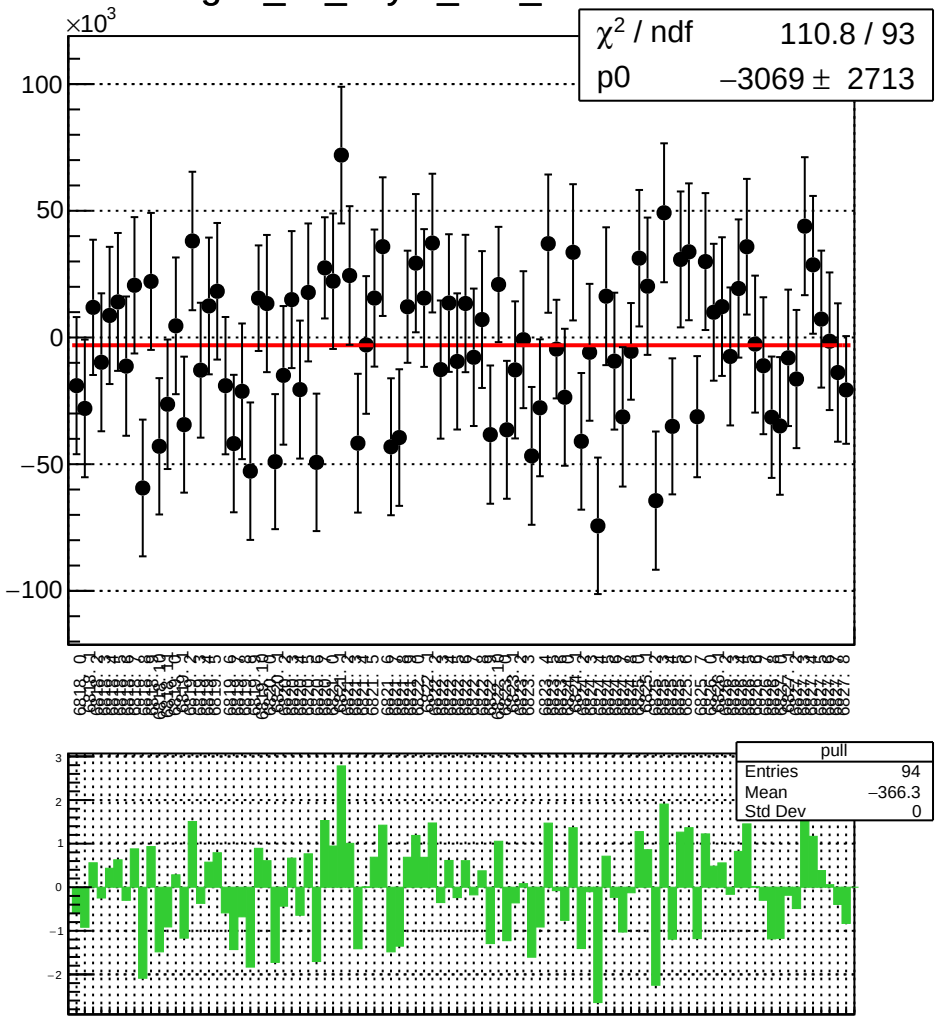

pull1D
Entries 94
Mean −0.004731
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

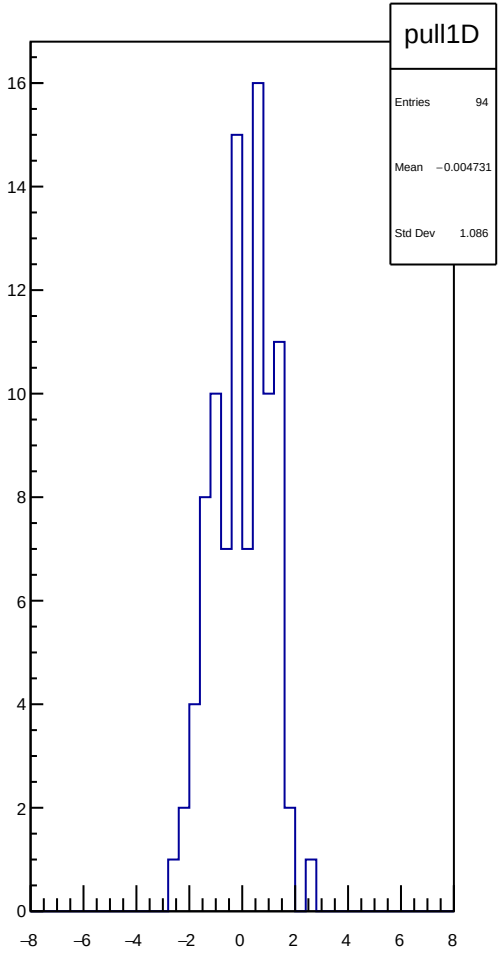

dit_asym_atl2_rms vs run
χ² / ndf 87.44 / 93
p0 2570 ± 1.918
2640
2620
2600
2580
2560
2540
2520
2500

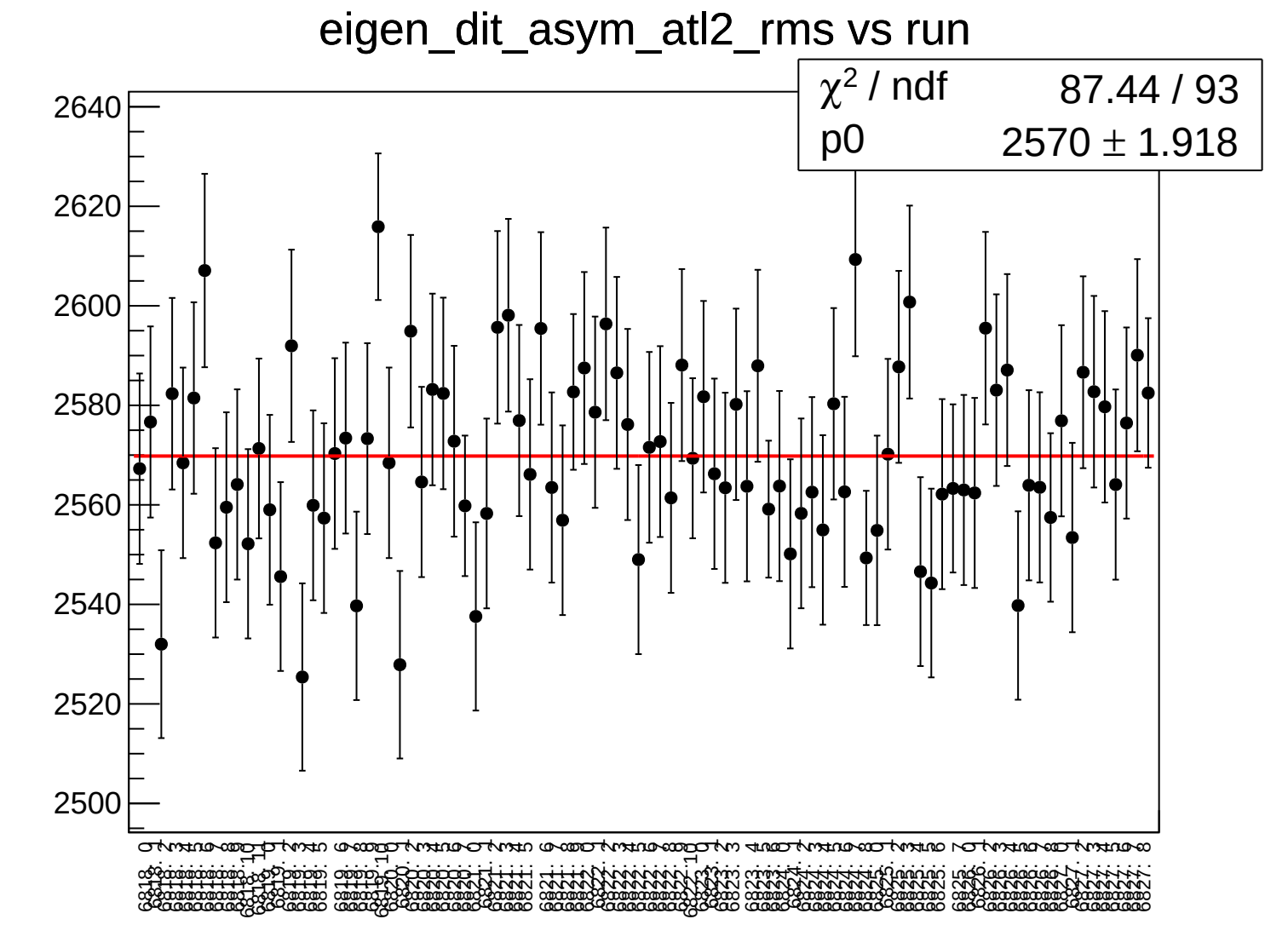

asym_atl2_dit_correction_mean vs run
χ^2 / ndf 89.55 / 93
p0 1986 ± 8385
pull
Entries 94
Mean 2.054e+04
Std Dev 0

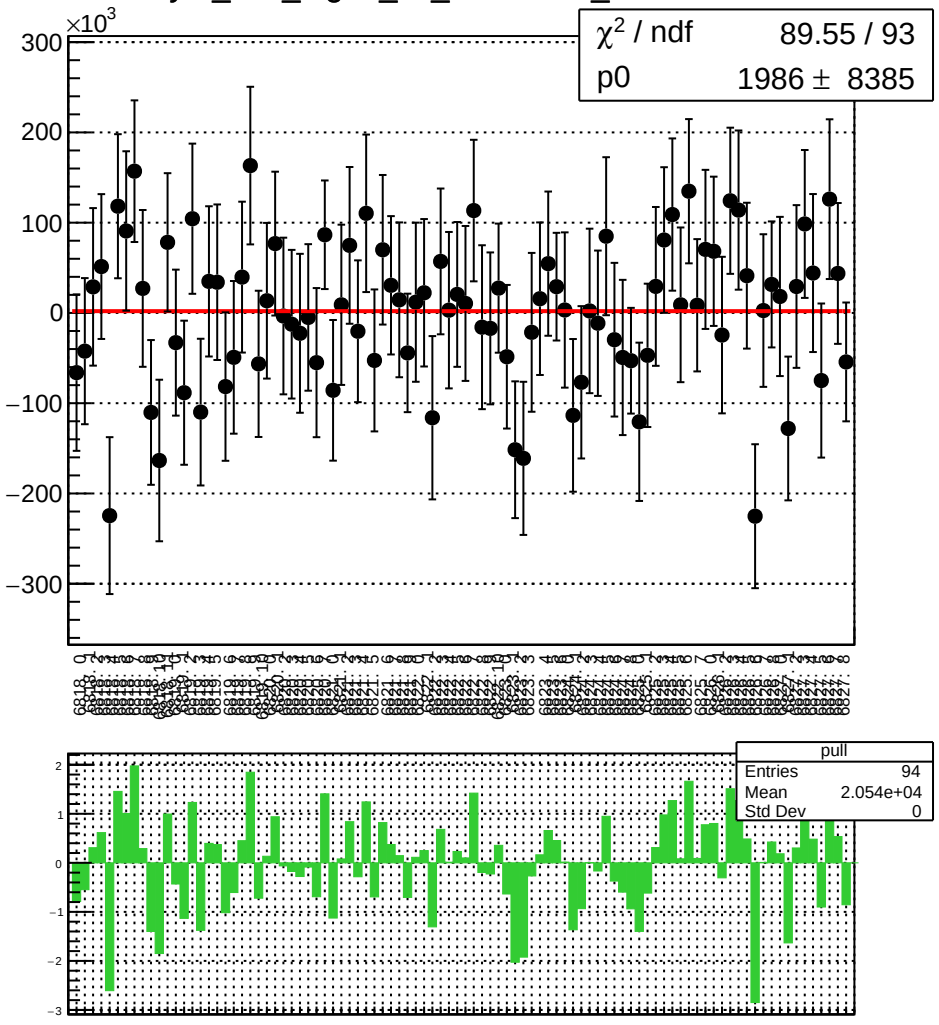

pull1D
Entries 94
Mean 6.515e−05
Std Dev 0.976

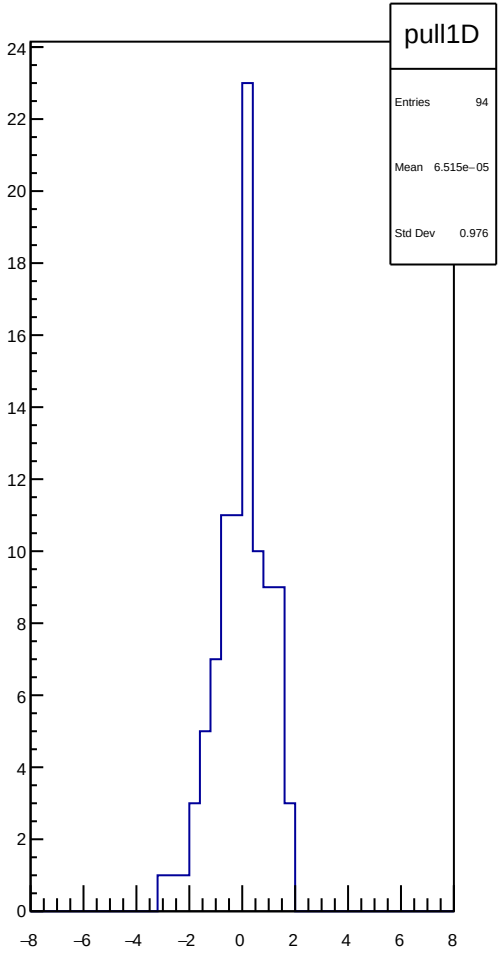

asym_atl2_dit_correction_rms vs run
χ² / ndf 4763 / 93
p0 7933 ± 5.929
10500
10000
9500
9000
8500
8000
7500
7000

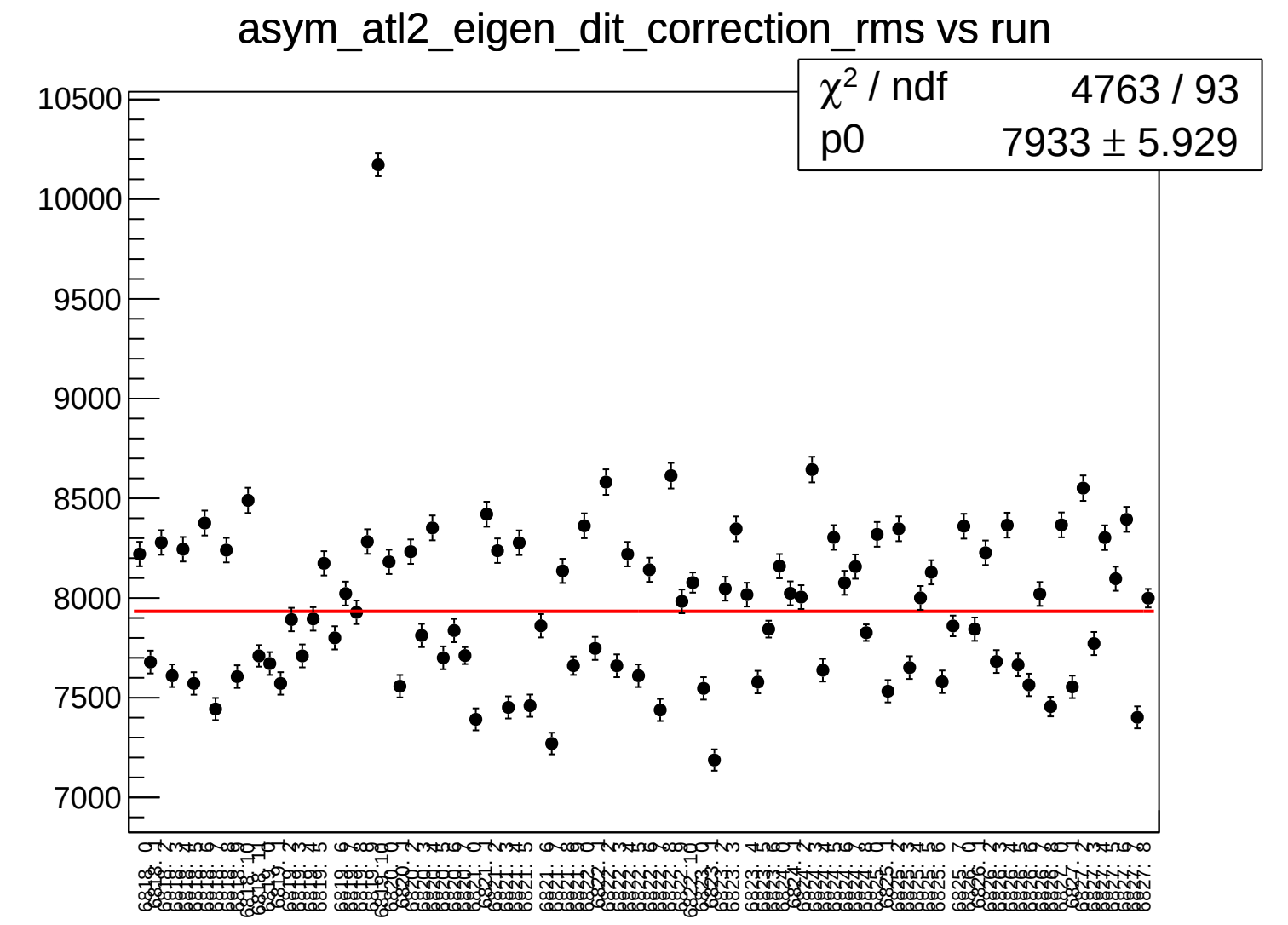

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 110.8 / 93
p0 −3069 ± 2713
100
50
0
−50
−100
pull
Entries 94
Mean −366.3
Std Dev 0
3
2
1
0
−1
−2

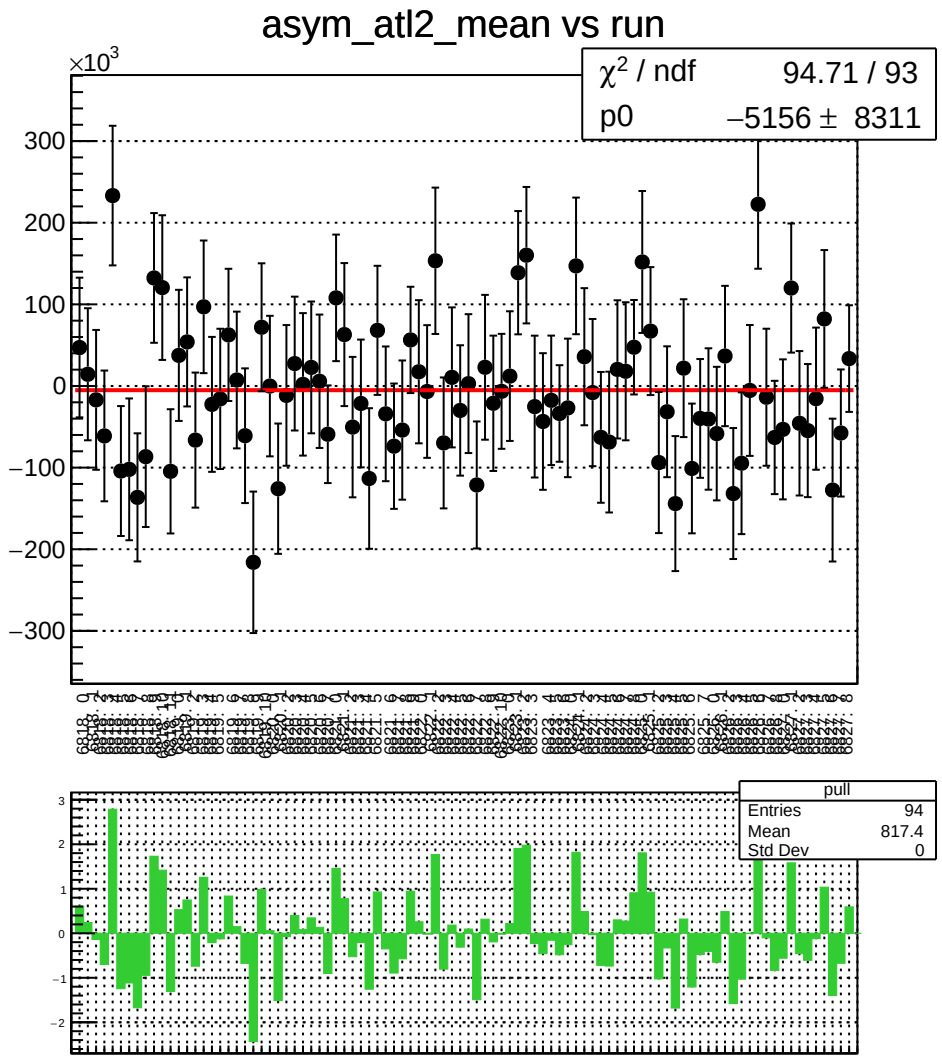

pull1D
Entries 94
Mean −0.004731
Std Dev 1.086
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

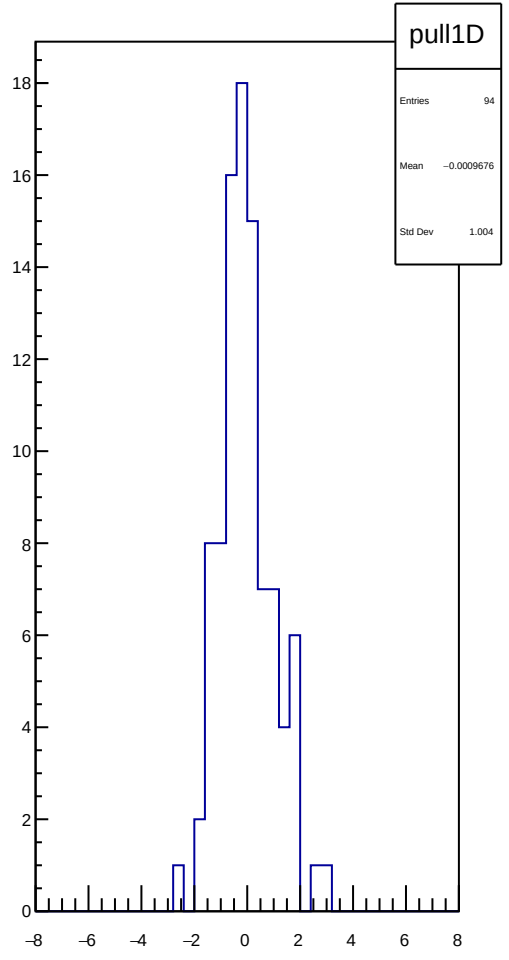

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 87.44 / 93
p0 2570 ± 1.918
2640
2620
2600
2580
2560
2540
2520
2500

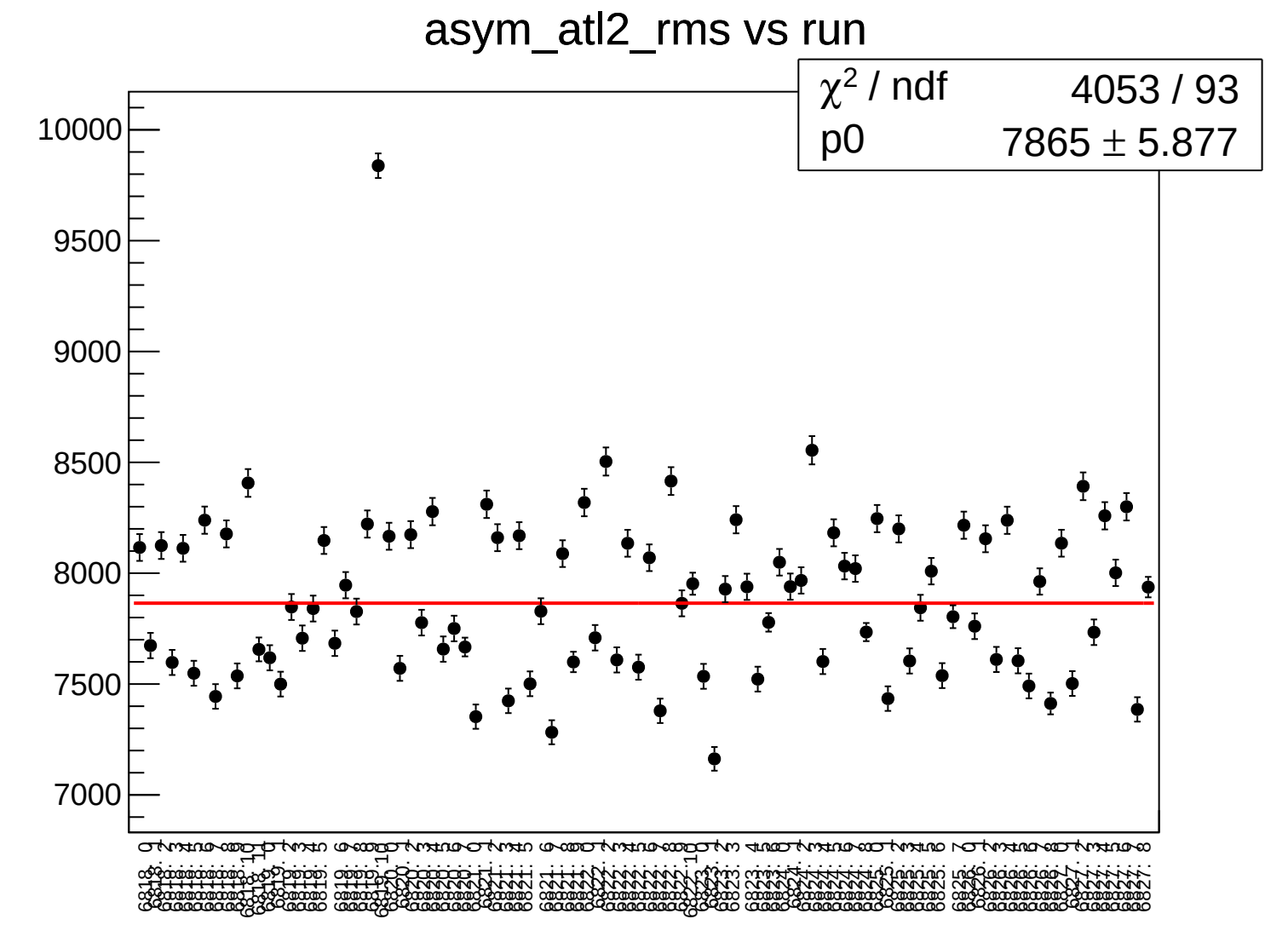

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.55 / 93
p0 1986 ± 8385
pull
Entries 94
Mean 2.054e+04
Std Dev 0

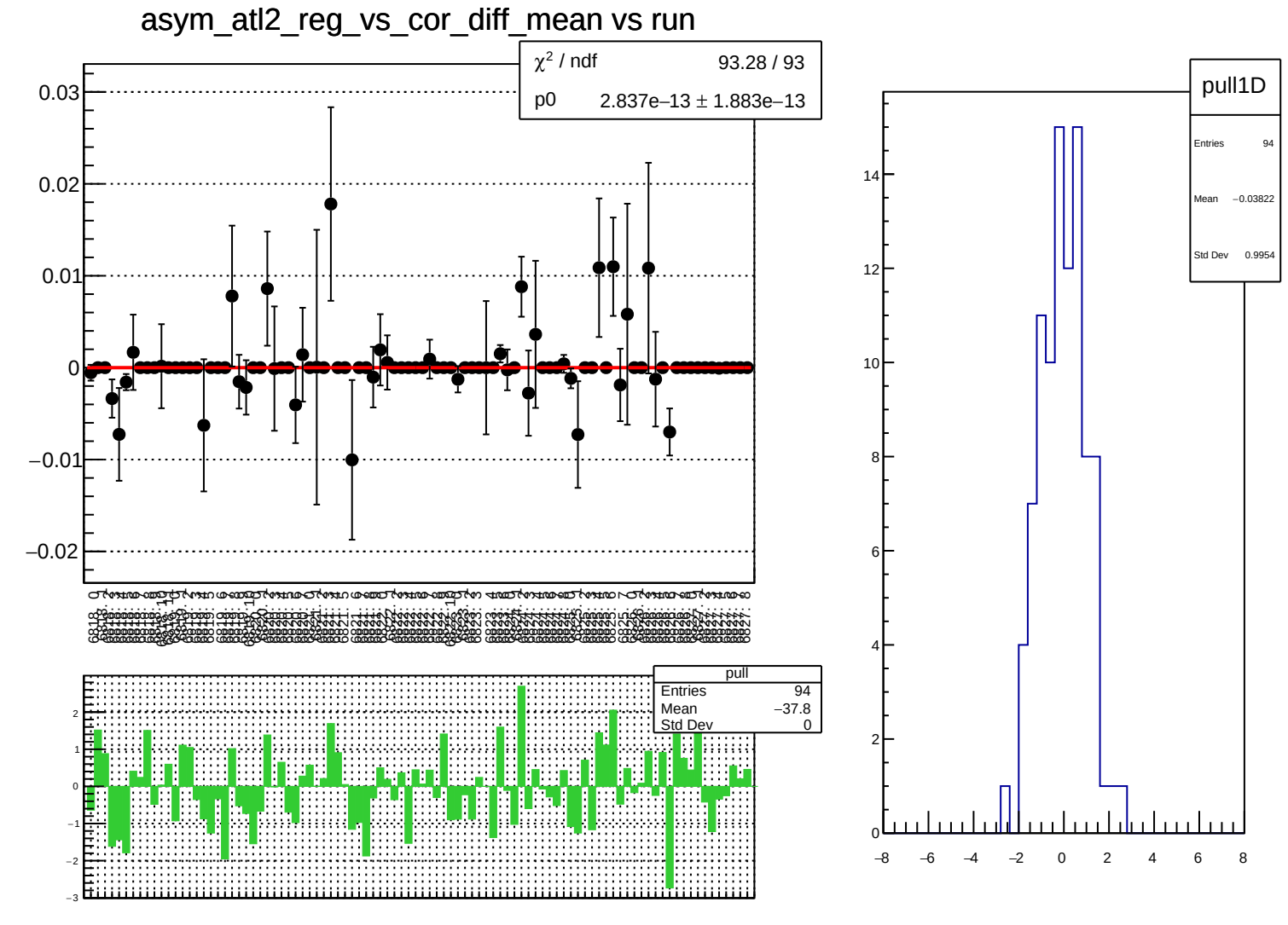

pull1D
Entries 94
Mean 6.515e−05
Std Dev 0.976

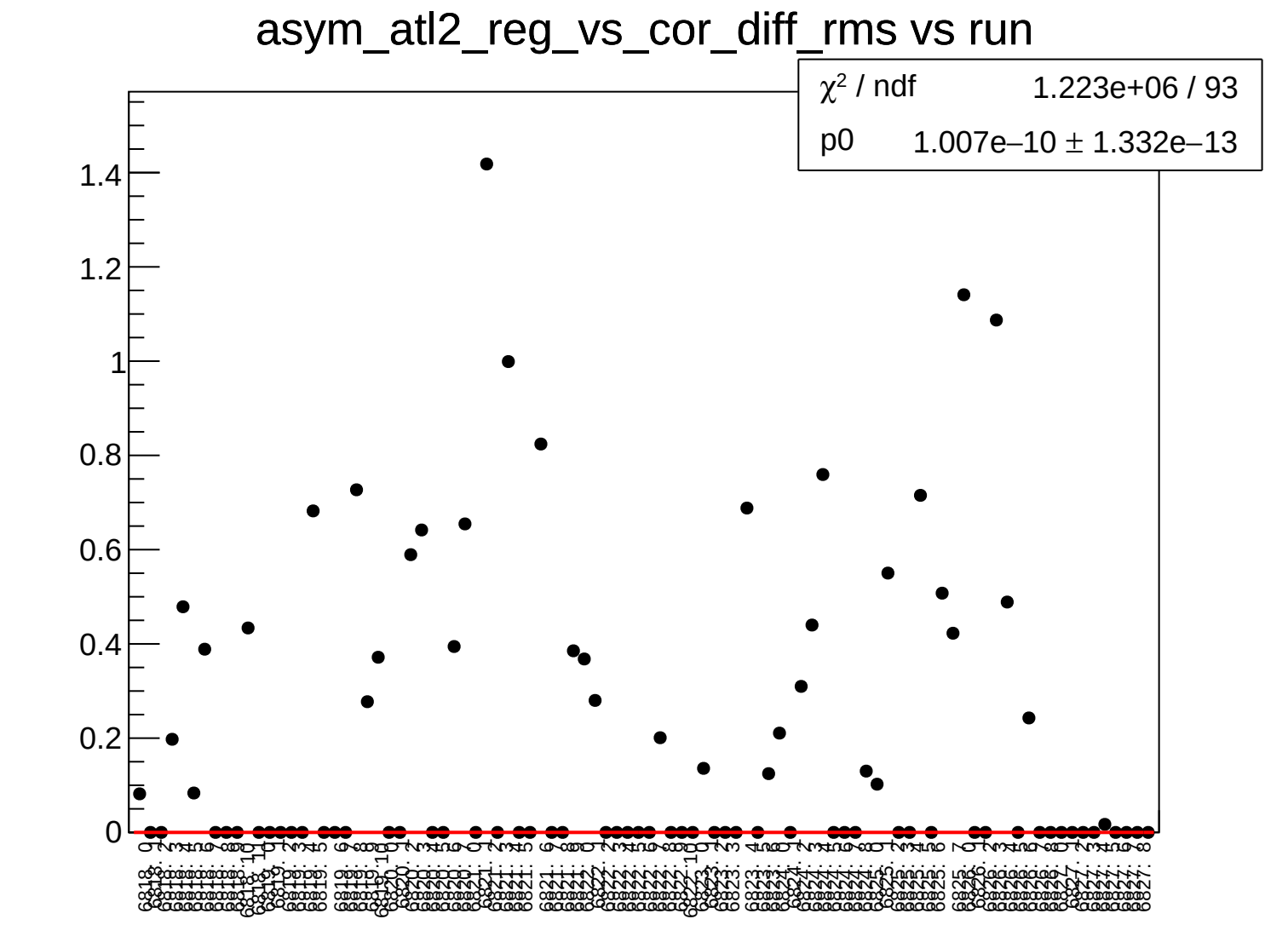

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 4763 / 93
p0 7933 ± 5.929
10500
10000
9500
9000
8500
8000
7500
7000

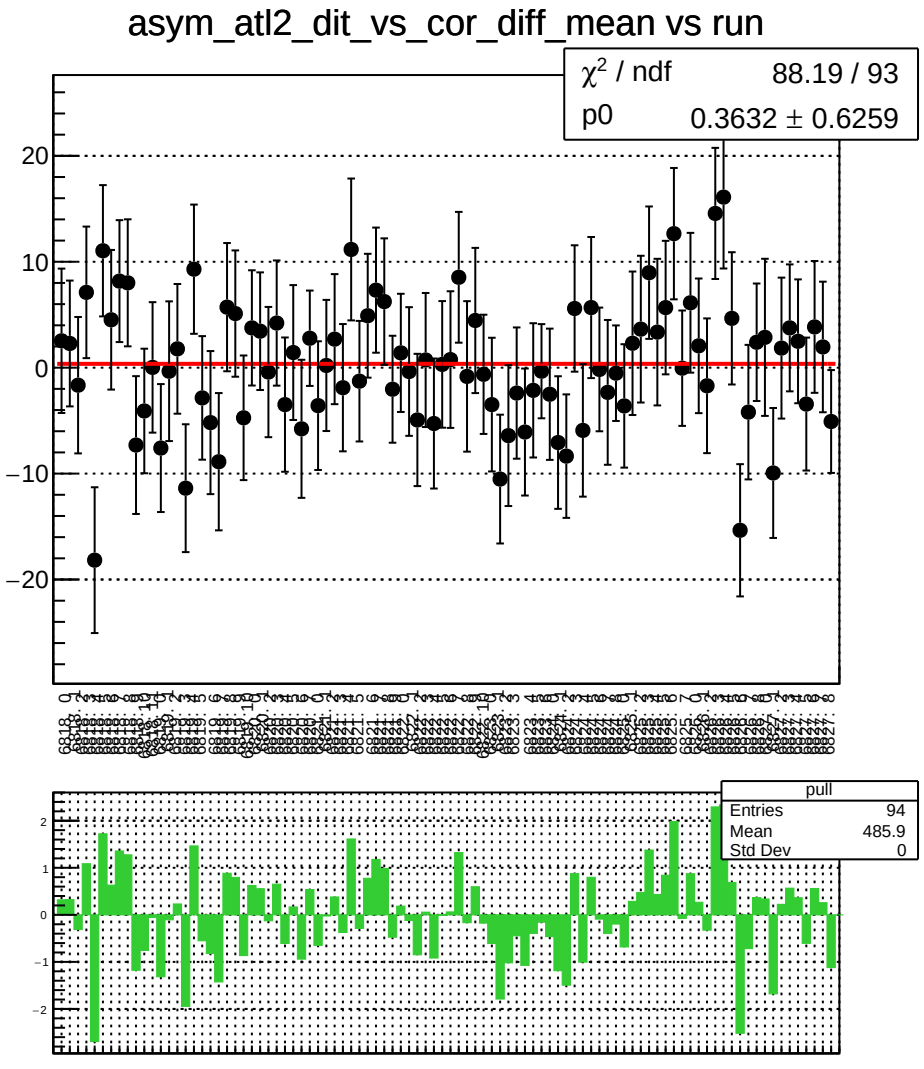

asym_atl2_mean vs run
×10^3
χ^2 / ndf 94.71 / 93
p0 −5156 ± 8311
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 817.4
Std Dev 0
3
2
1
0
−1
−2

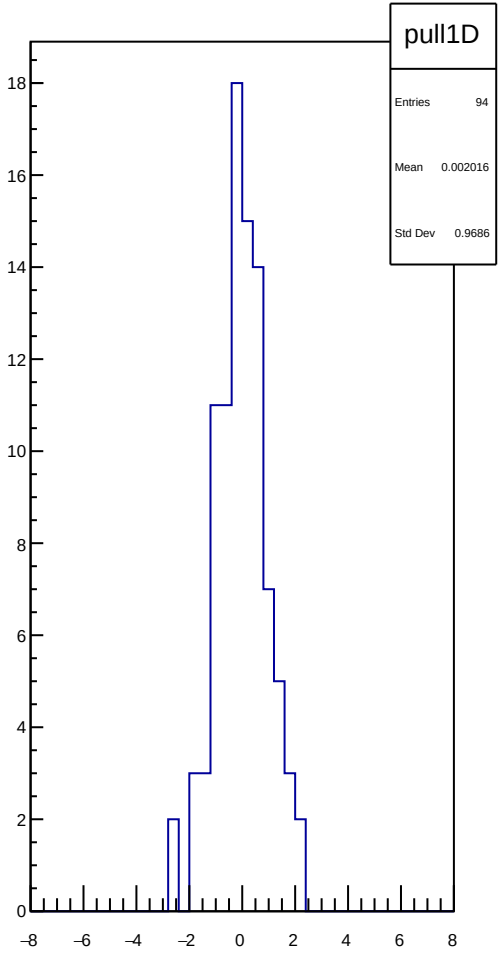

pull1D
Entries 94
Mean −0.0009676
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

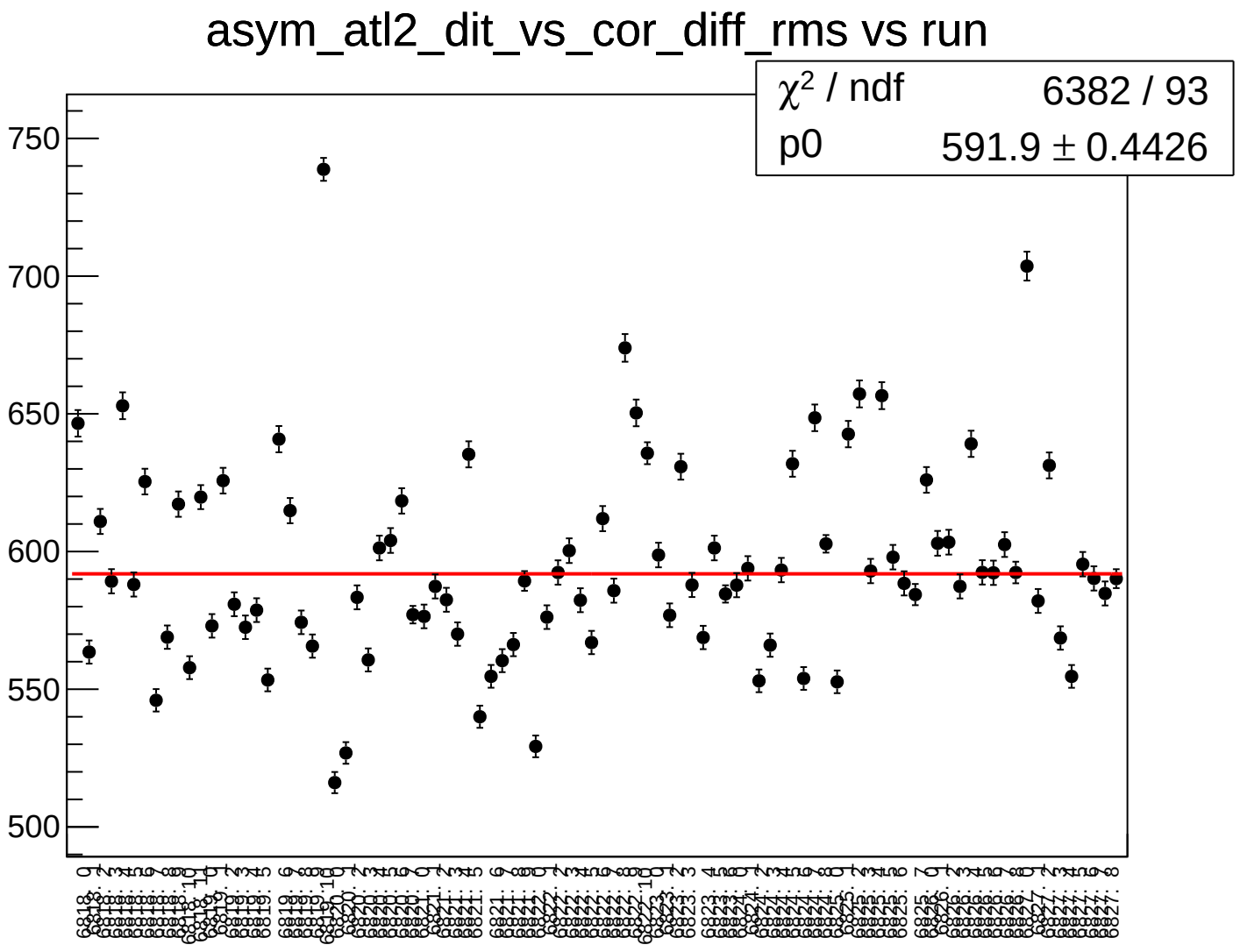

asym_atl2_rms vs run
χ² / ndf 4053 / 93
p0 7865 ± 5.877
10000
9500
9000
8500
8000
7500
7000

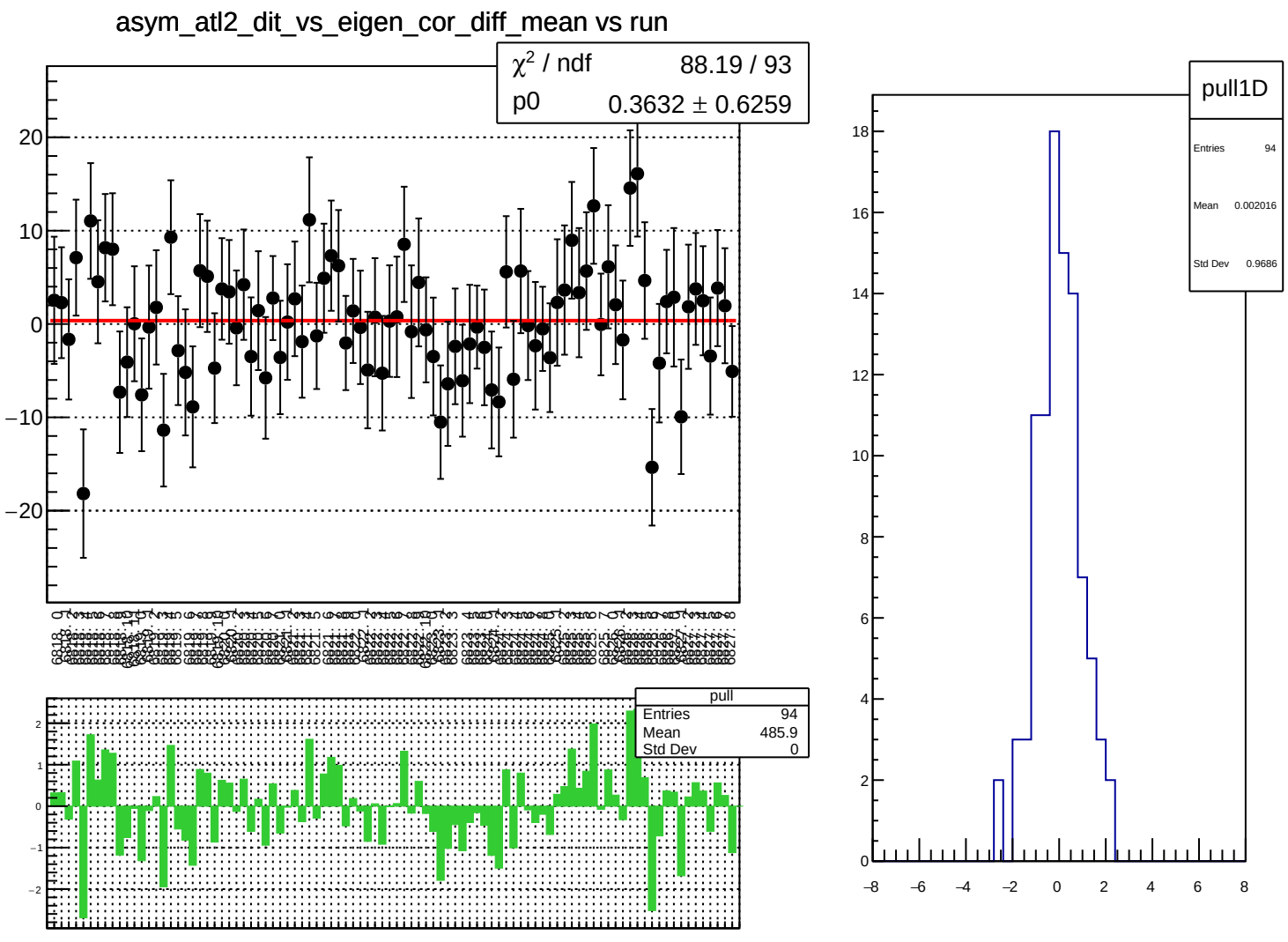

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 93
p0 2.837e−13 ± 1.883e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −37.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.03822
Std Dev 0.9954
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

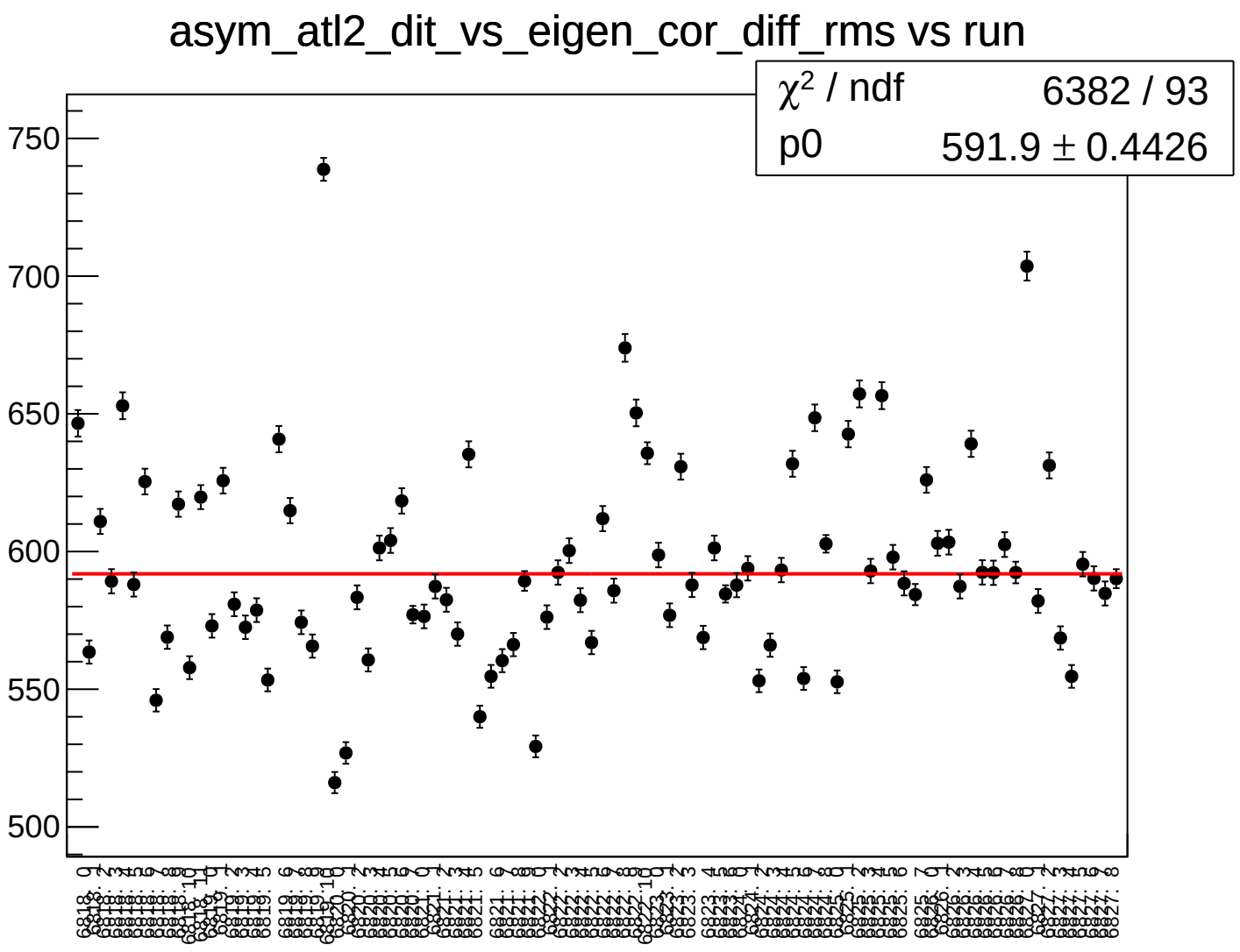

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.223e+06 / 93
p0 1.007e−10 ± 1.332e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

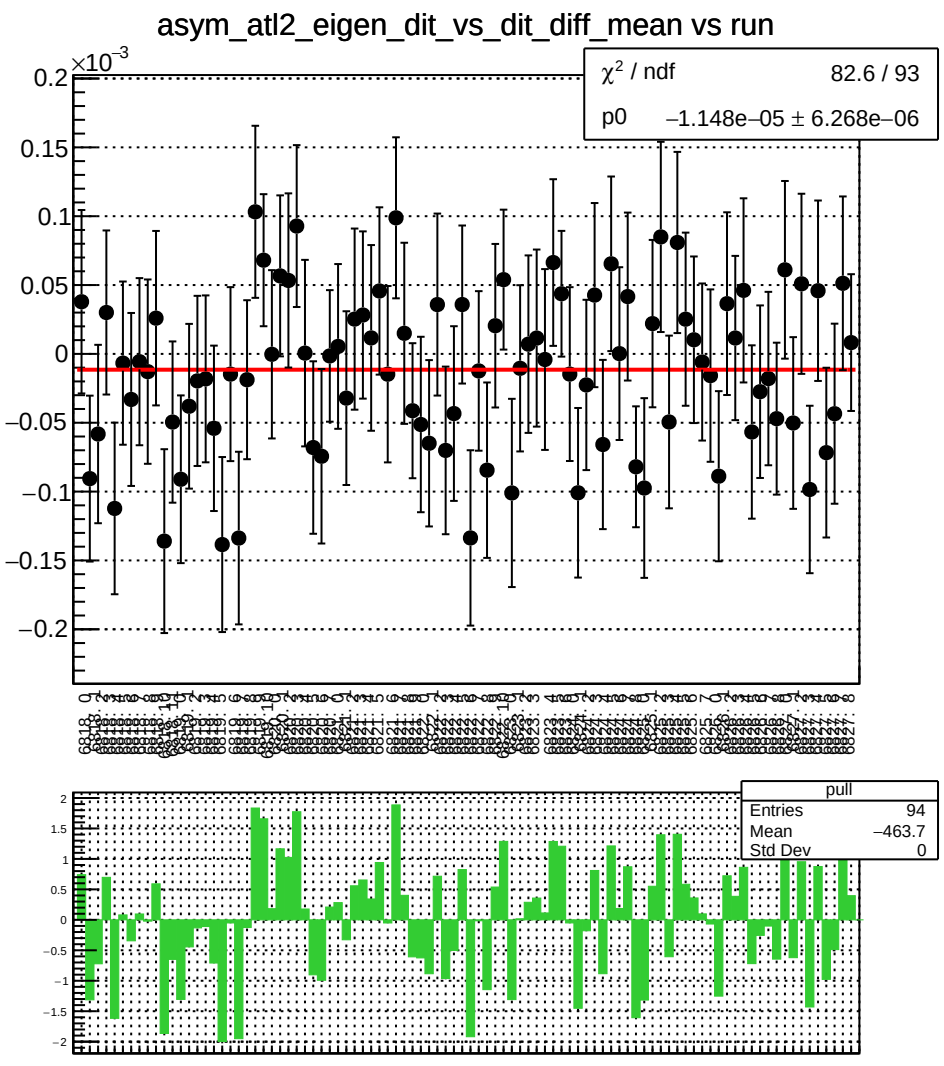

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.19 / 93
p0 0.3632 ± 0.6259
pull
Entries 94
Mean 485.9
Std Dev 0

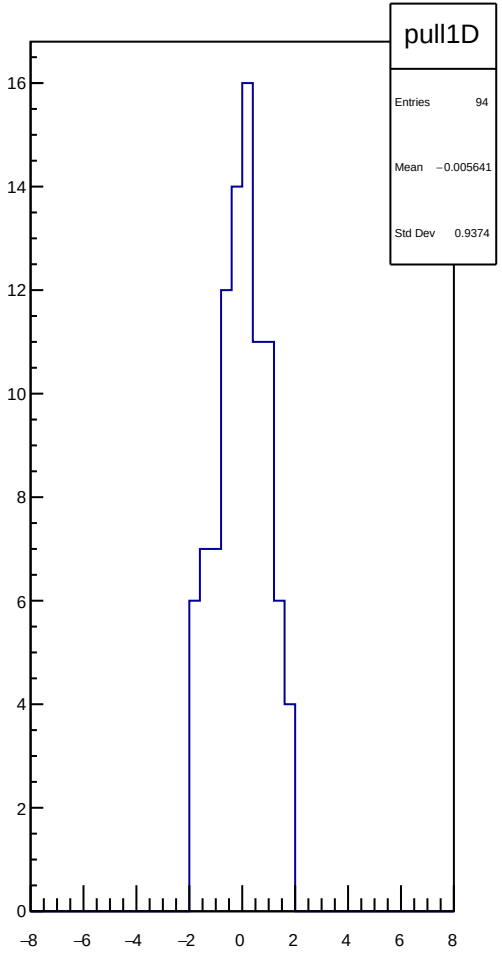

pull1D
Entries 94
Mean 0.002016
Std Dev 0.9686

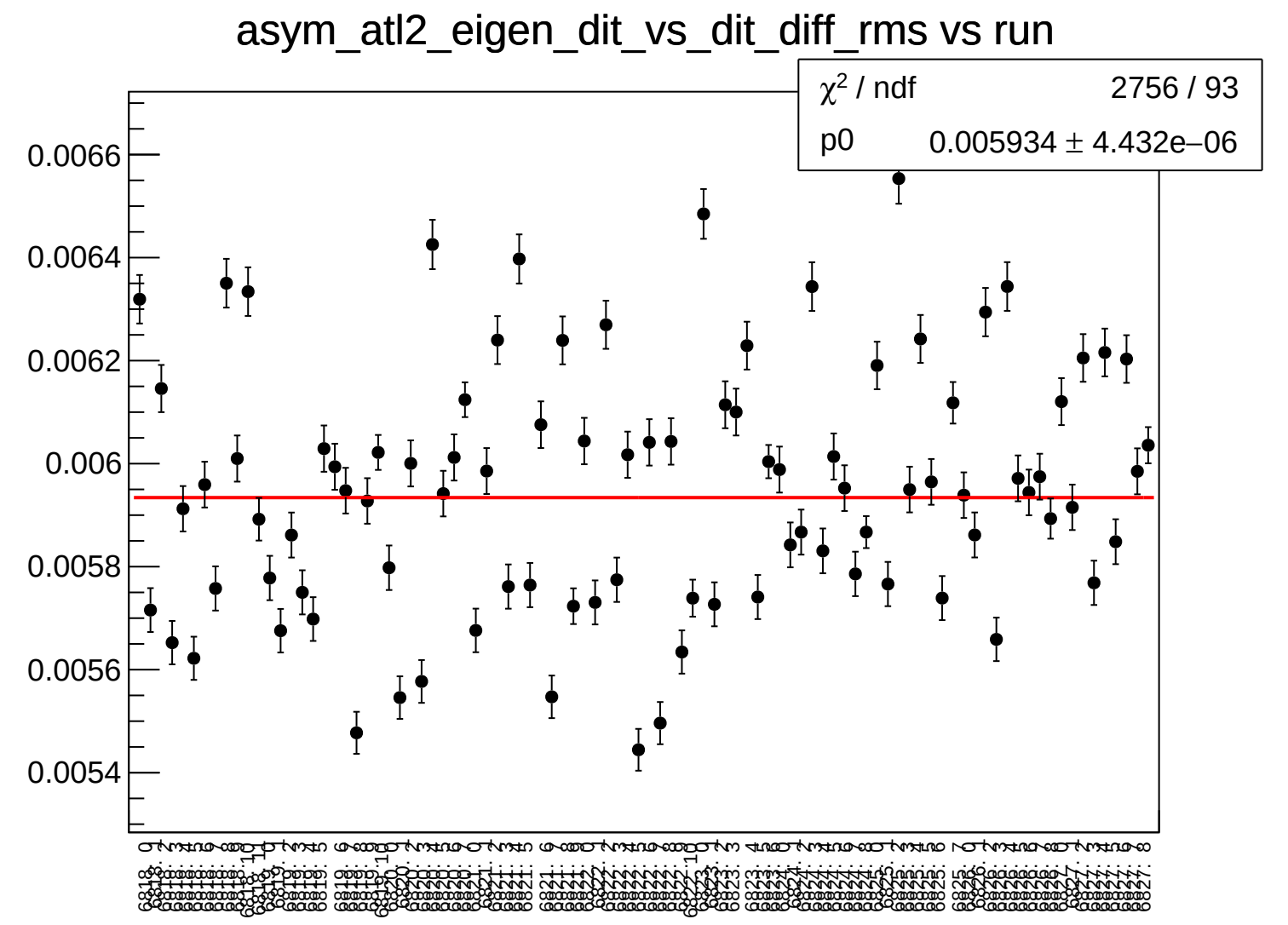

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 591.9 ± 0.4426
750
700
650
600
550
500

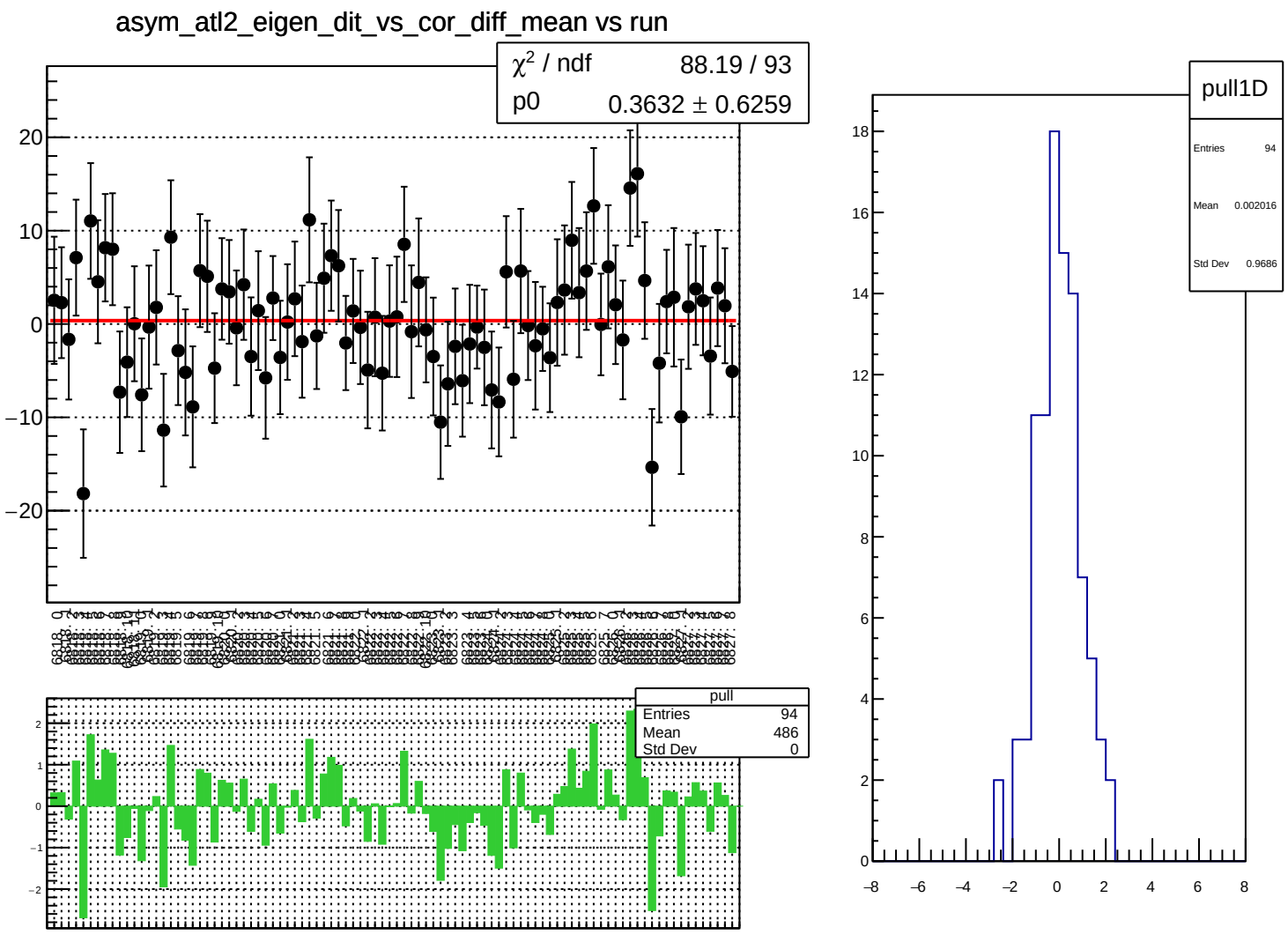

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.19 / 93
p0 0.3632 ± 0.6259
pull
Entries 94
Mean 485.9
Std Dev 0
pull1D
Entries 94
Mean 0.002016
Std Dev 0.9686

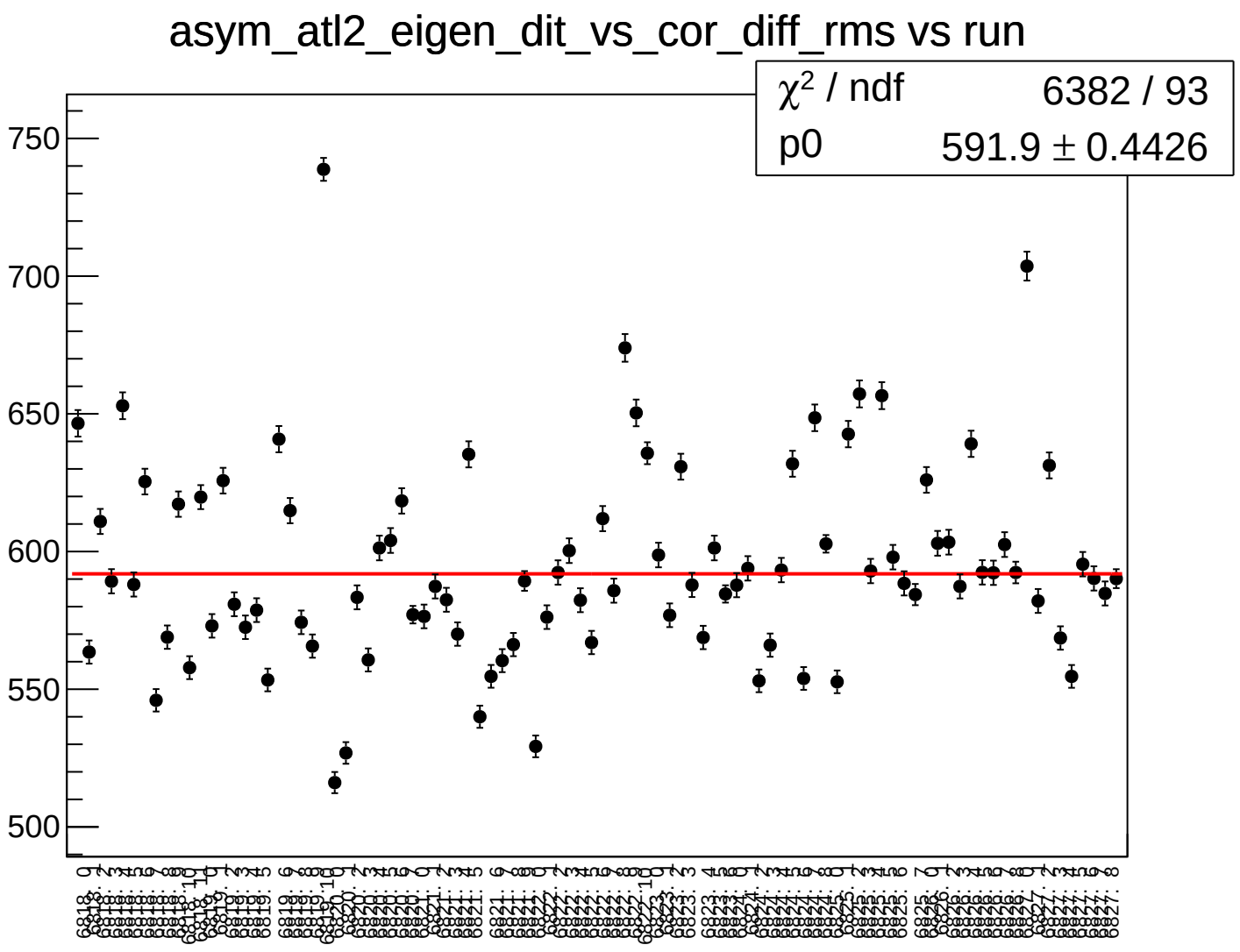

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 591.9 ± 0.4426
750
700
650
600
550
500

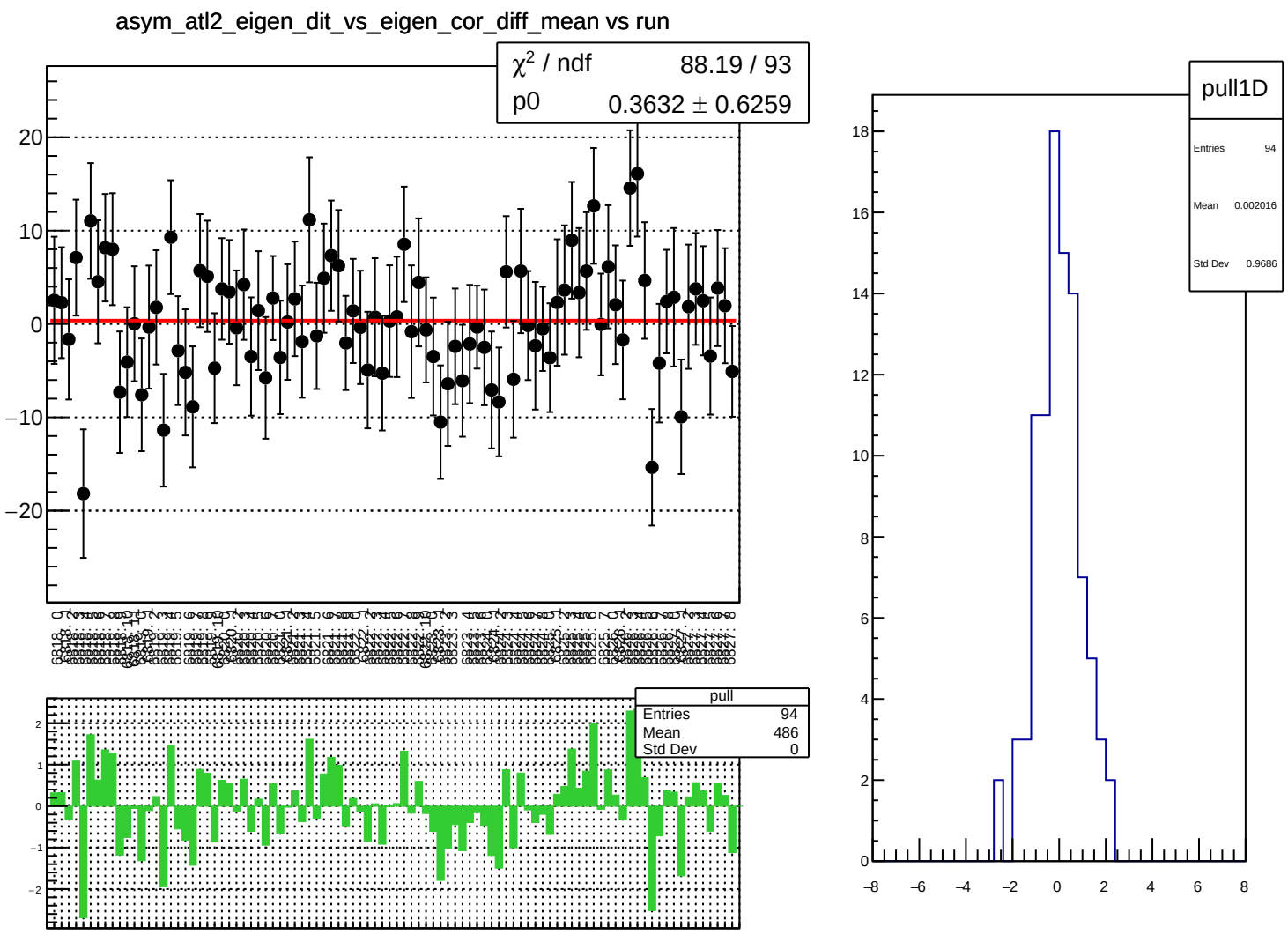

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.6 / 93
p0 −1.148e−05 ± 6.268e−06
pull
Entries 94
Mean −463.7
Std Dev 0

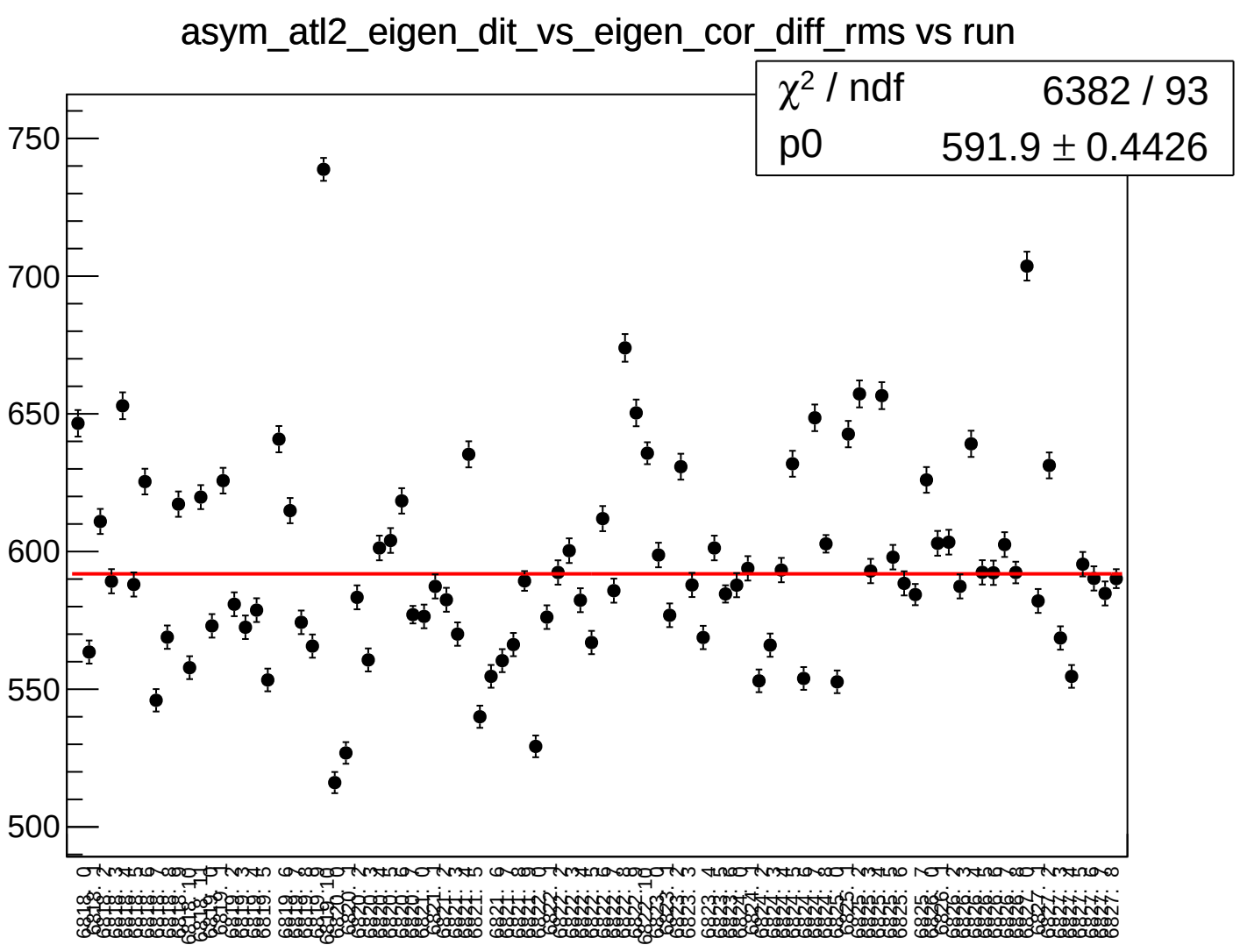

pull1D
Entries 94
Mean −0.005641
Std Dev 0.9374

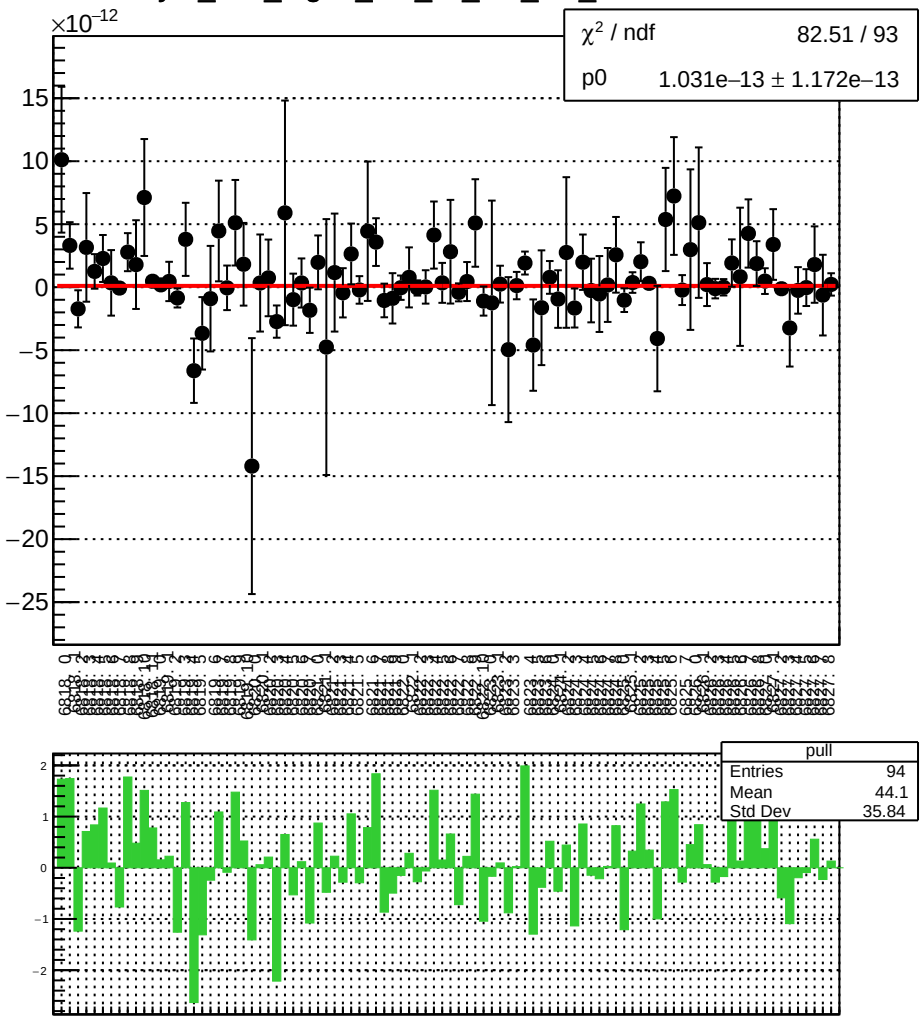

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2756 / 93
p0 0.005934 ± 4.432e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

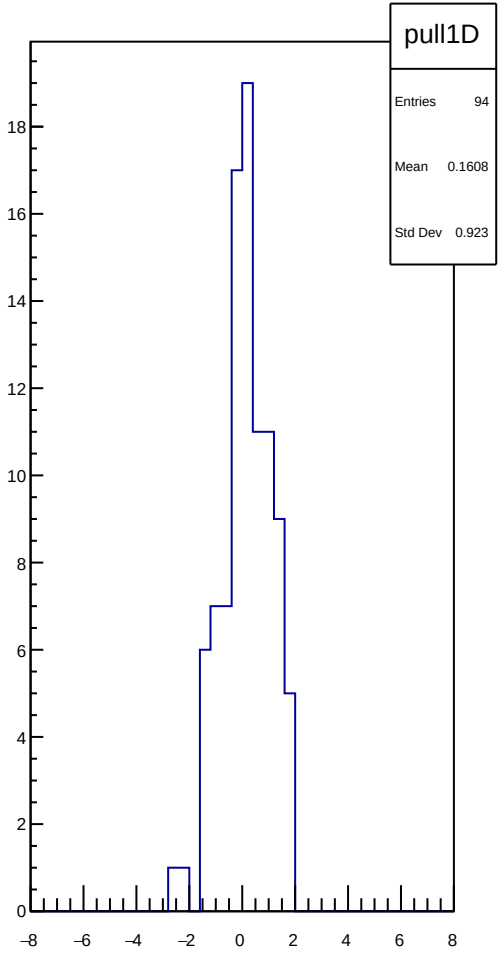

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.19 / 93
p0 0.3632 ± 0.6259
pull
Entries 94
Mean 486
Std Dev 0
pull1D
Entries 94
Mean 0.002016
Std Dev 0.9686

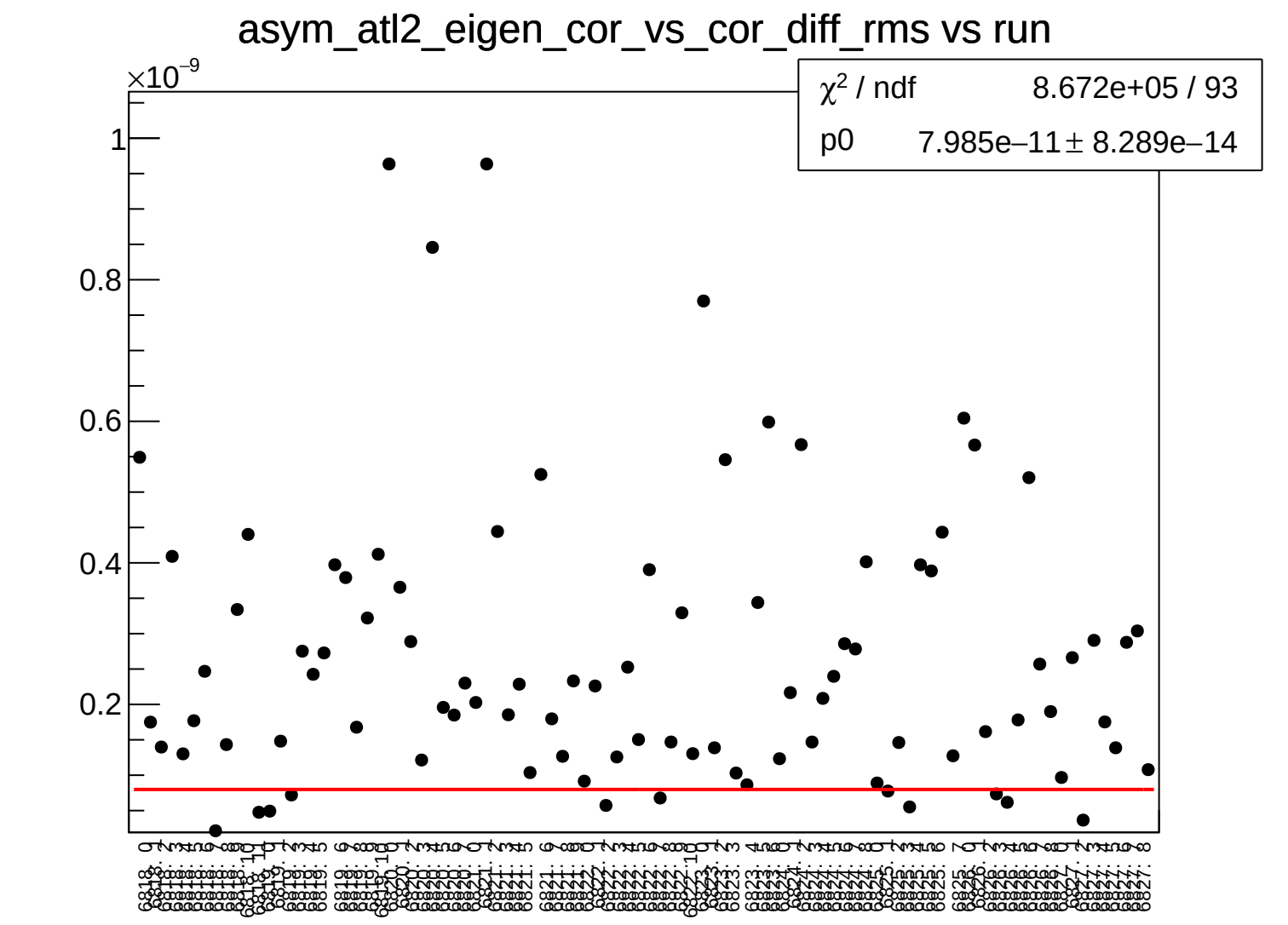

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 591.9 ± 0.4426
750
700
650
600
550
500

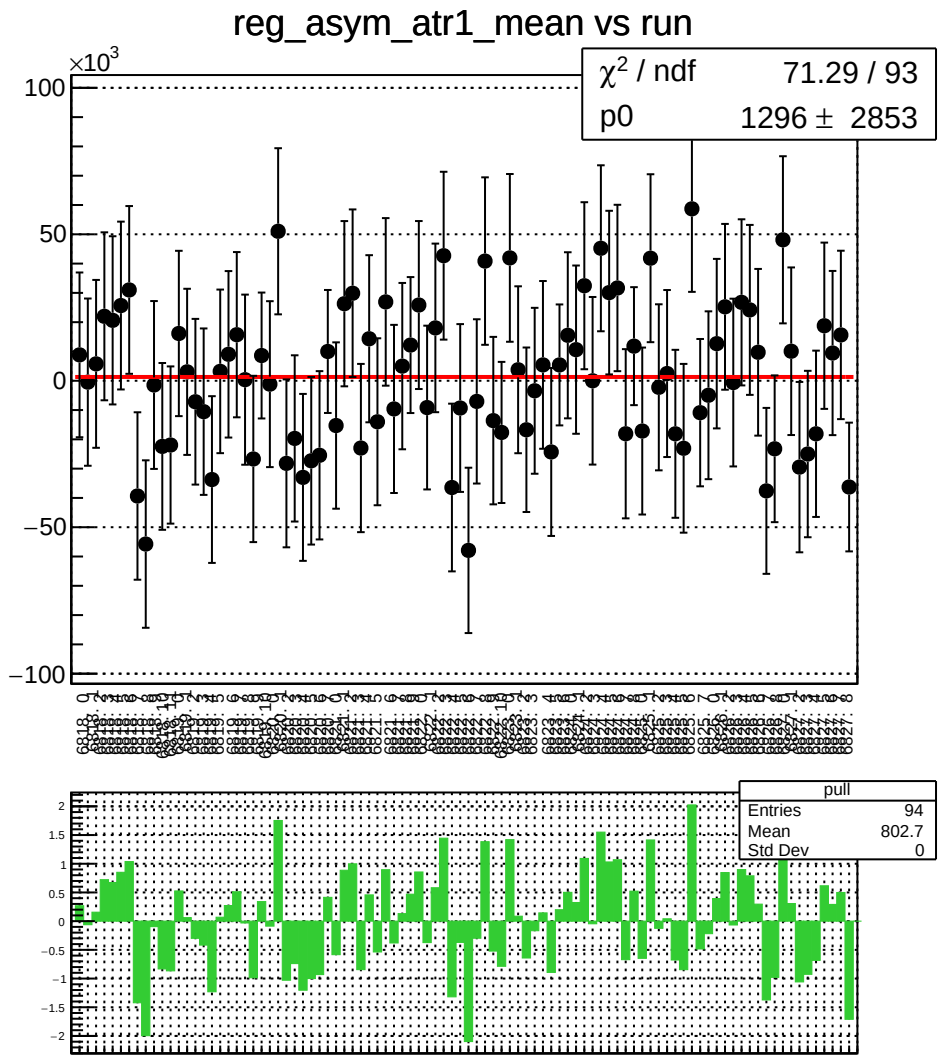

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.19 / 93
p0 0.3632 ± 0.6259
20
10
0
−10
−20
pull
Entries 94
Mean 486
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002016
Std Dev 0.9686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

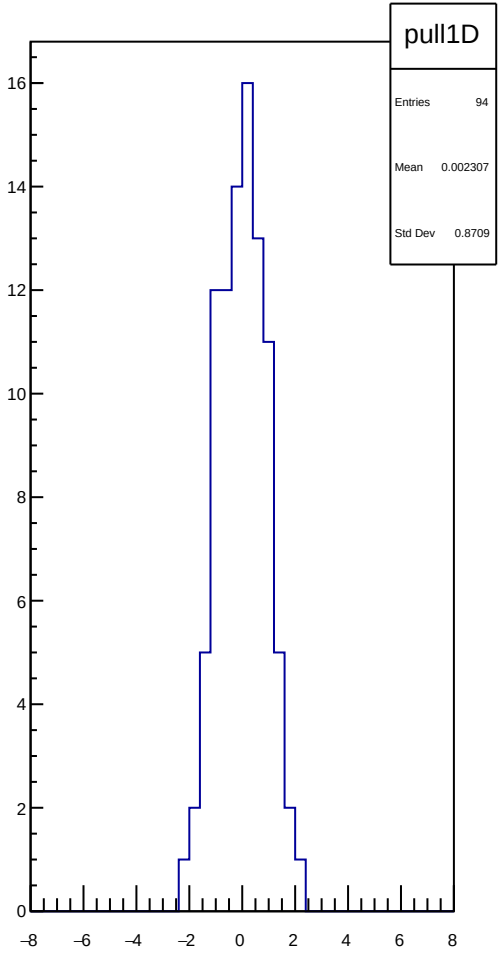

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 591.9 ± 0.4426
750
700
650
600
550
500

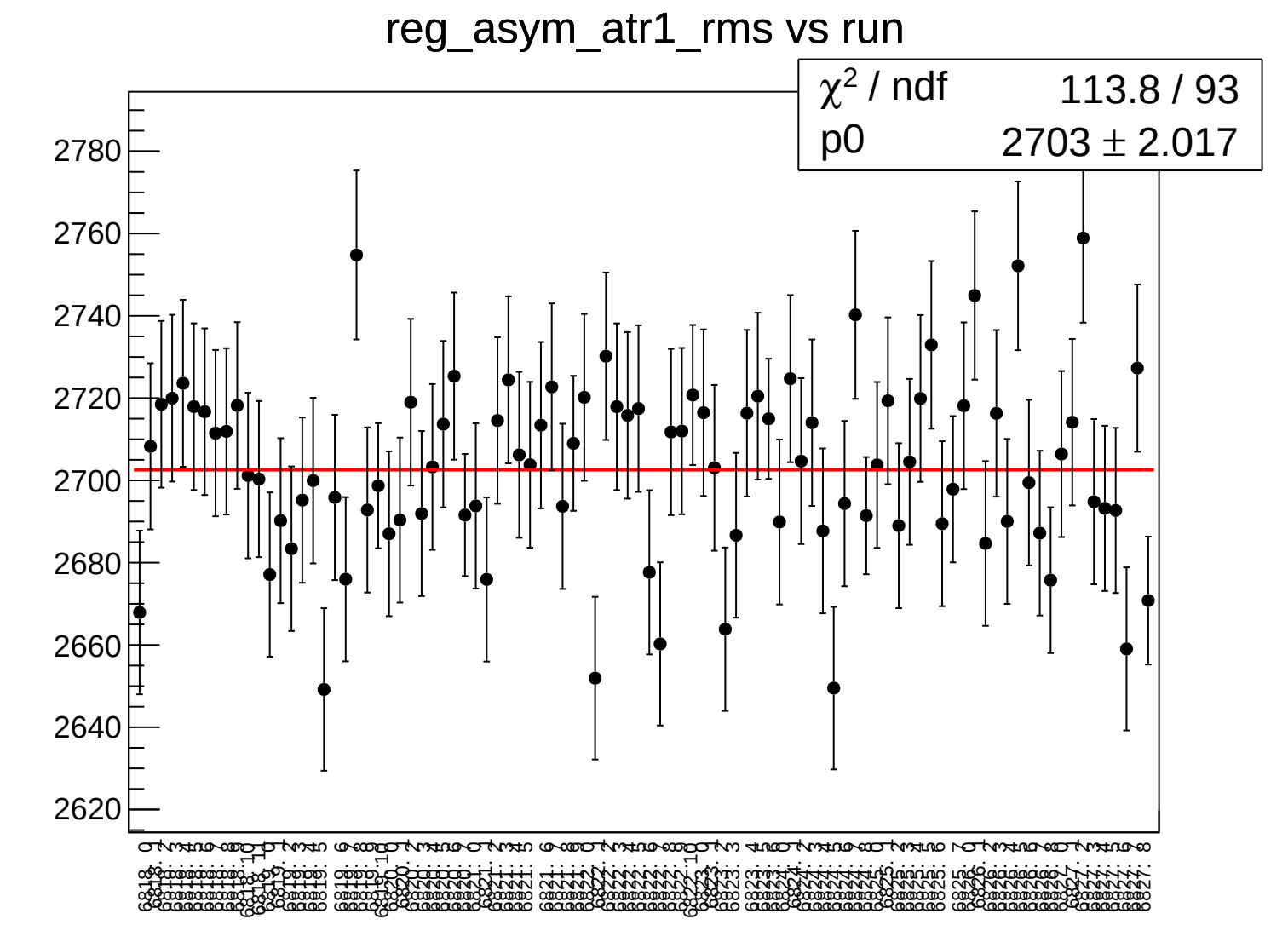

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.51 / 93
p0 1.031e−13 ± 1.172e−13
pull
Entries 94
Mean 44.1
Std Dev 35.84

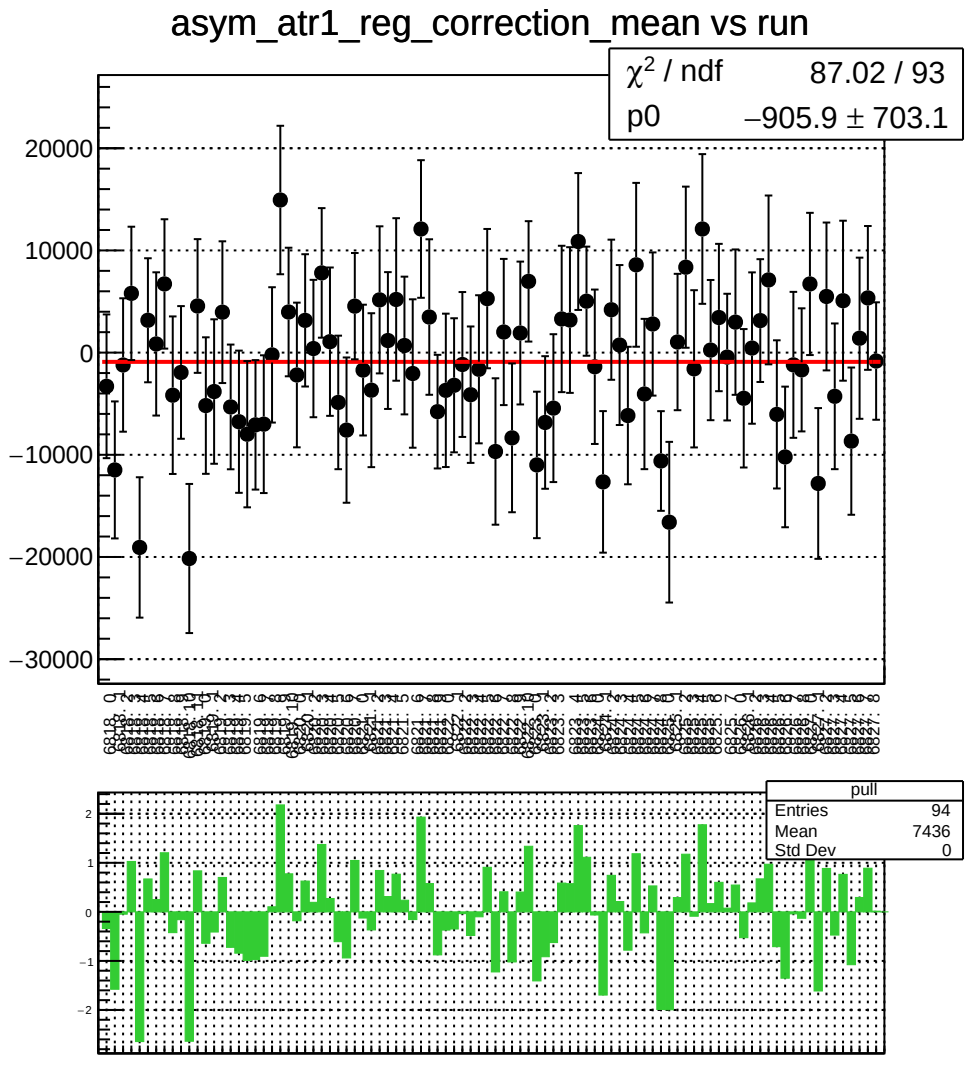

pull1D
Entries 94
Mean 0.1608
Std Dev 0.923

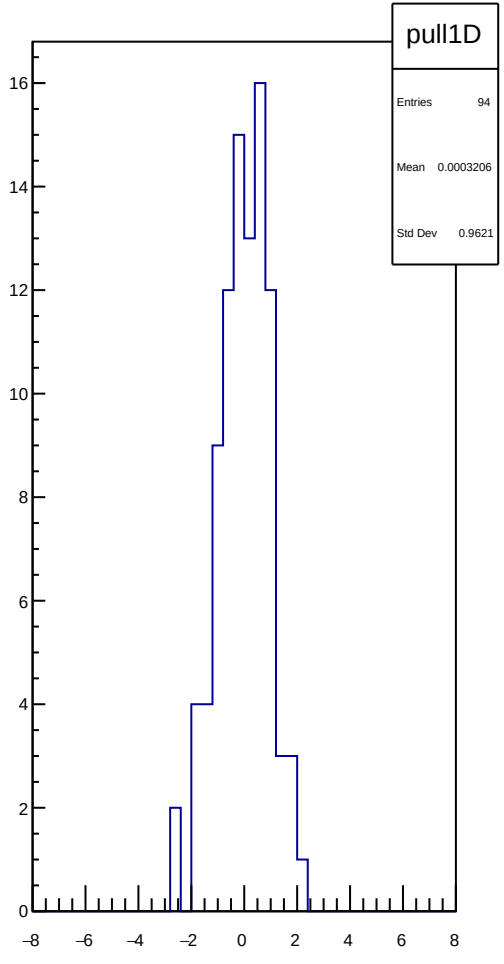

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.672e+05 / 93
p0 7.985e−11 ± 8.289e−14
1
0.8
0.6
0.4
0.2

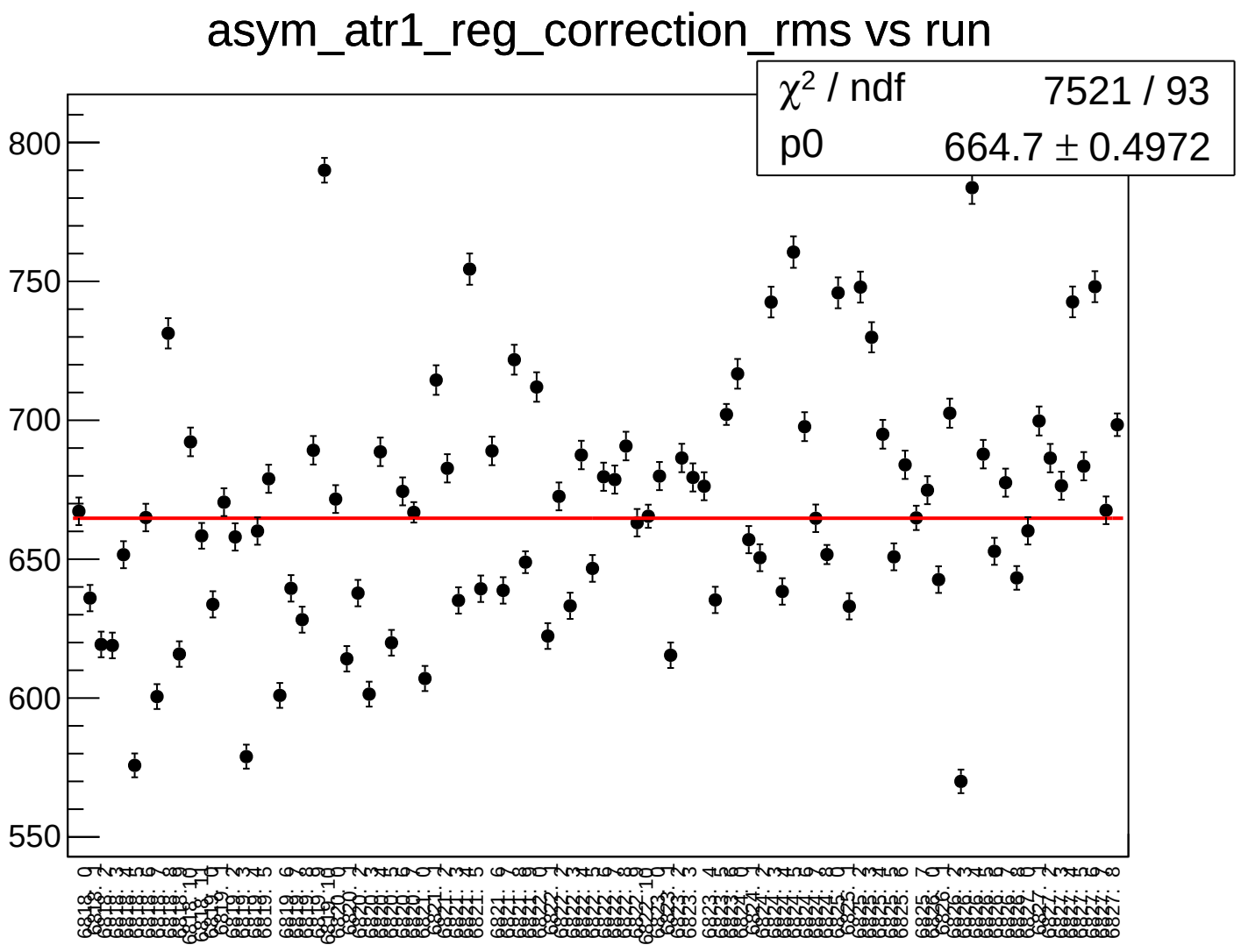

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 71.29 / 93
p0 1296 ± 2853
pull
Entries 94
Mean 802.7
Std Dev 0

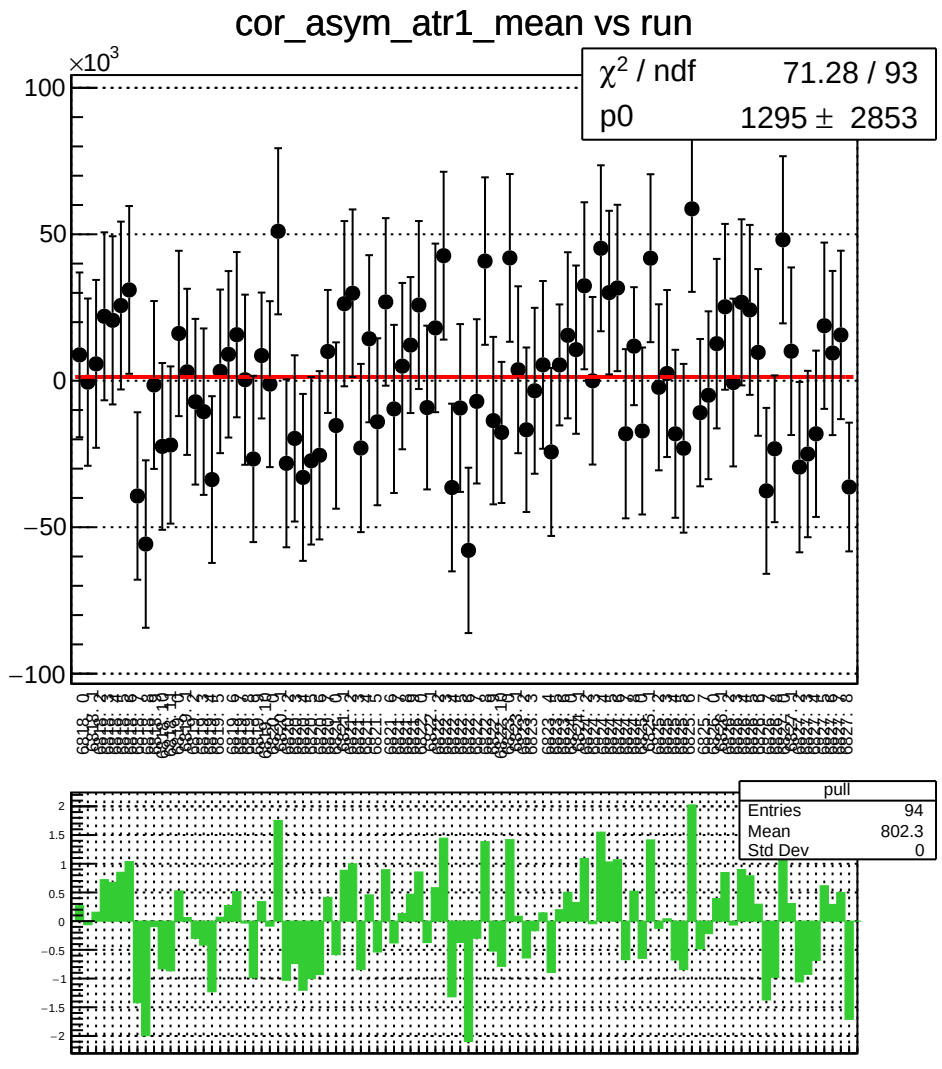

pull1D
Entries 94
Mean 0.002307
Std Dev 0.8709

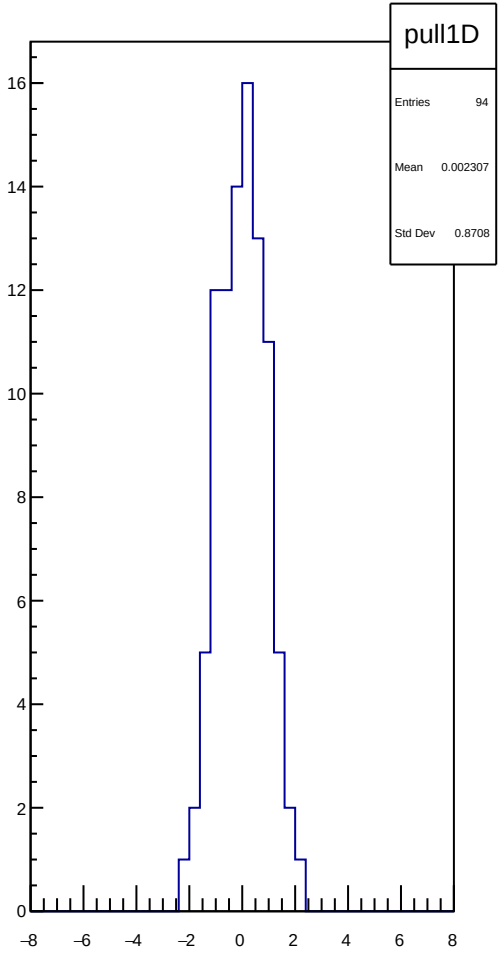

reg_asym_atr1_rms vs run
χ² / ndf 113.8 / 93
p0 2703 ± 2.017
2780
2760
2740
2720
2700
2680
2660
2640
2620

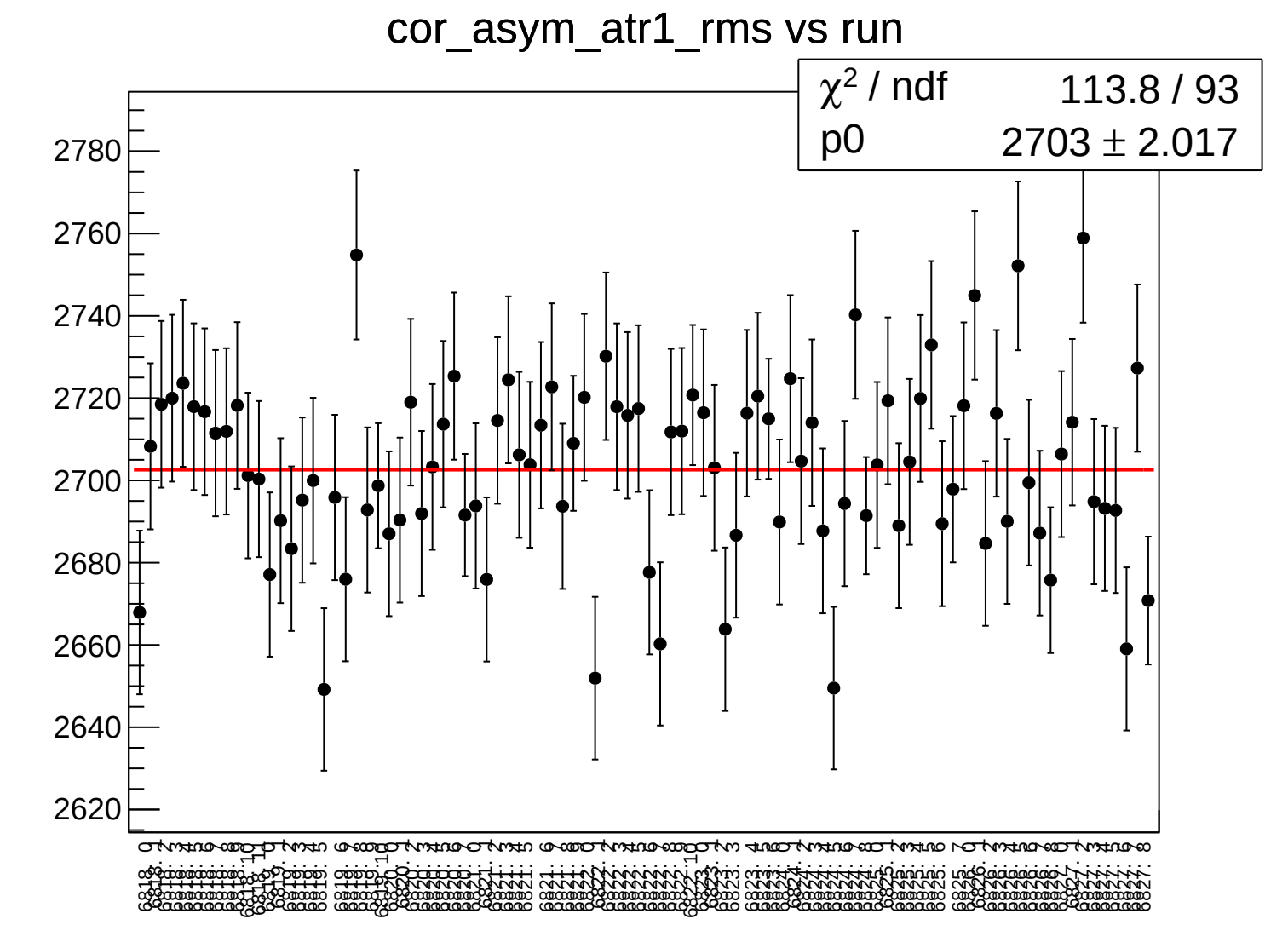

asym_atr1_reg_correction_mean vs run
χ² / ndf 87.02 / 93
p0 −905.9 ± 703.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 7436
Std Dev 0
2
1
0
−1
−2

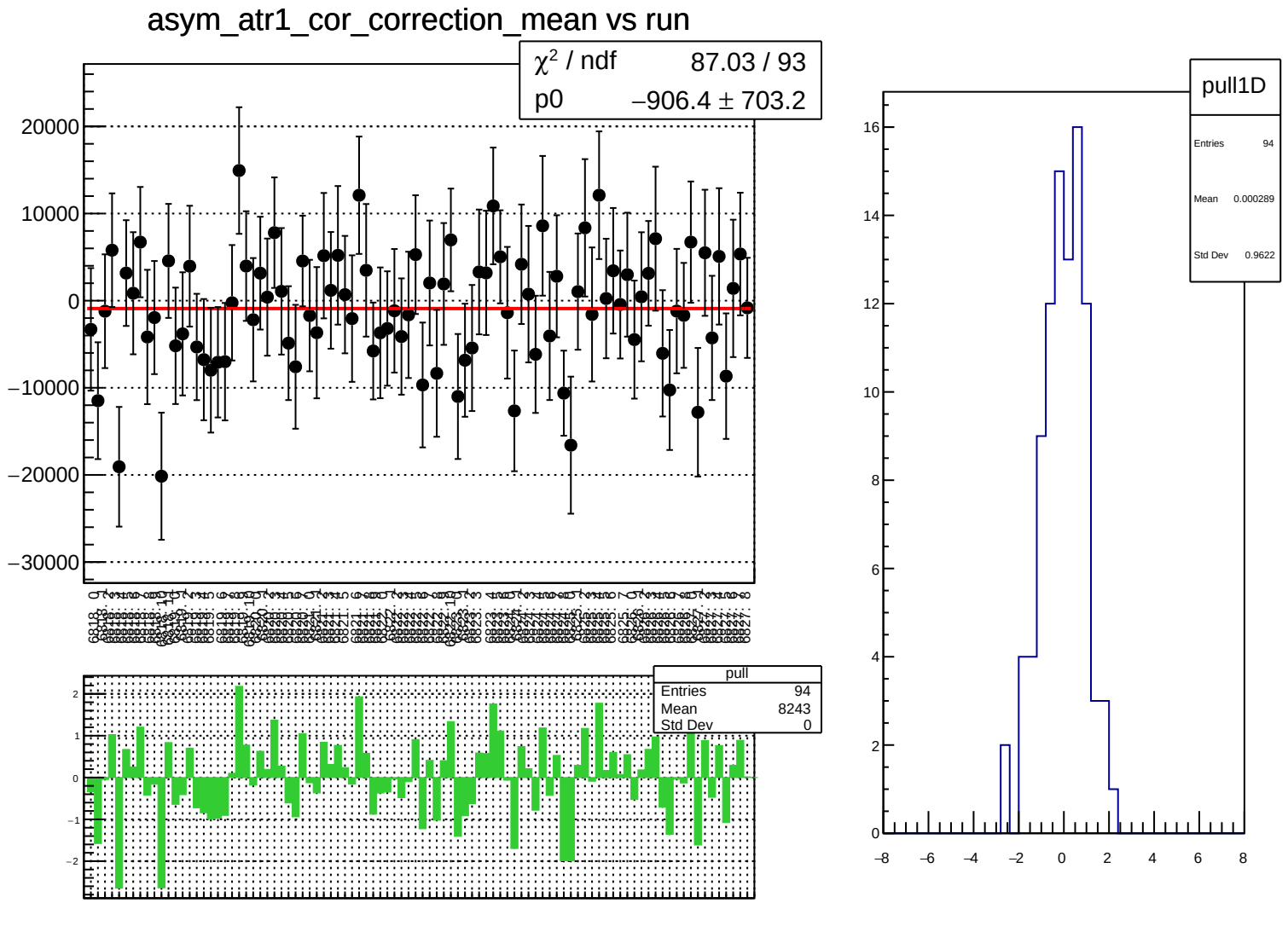

pull1D
Entries 94
Mean 0.0003206
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

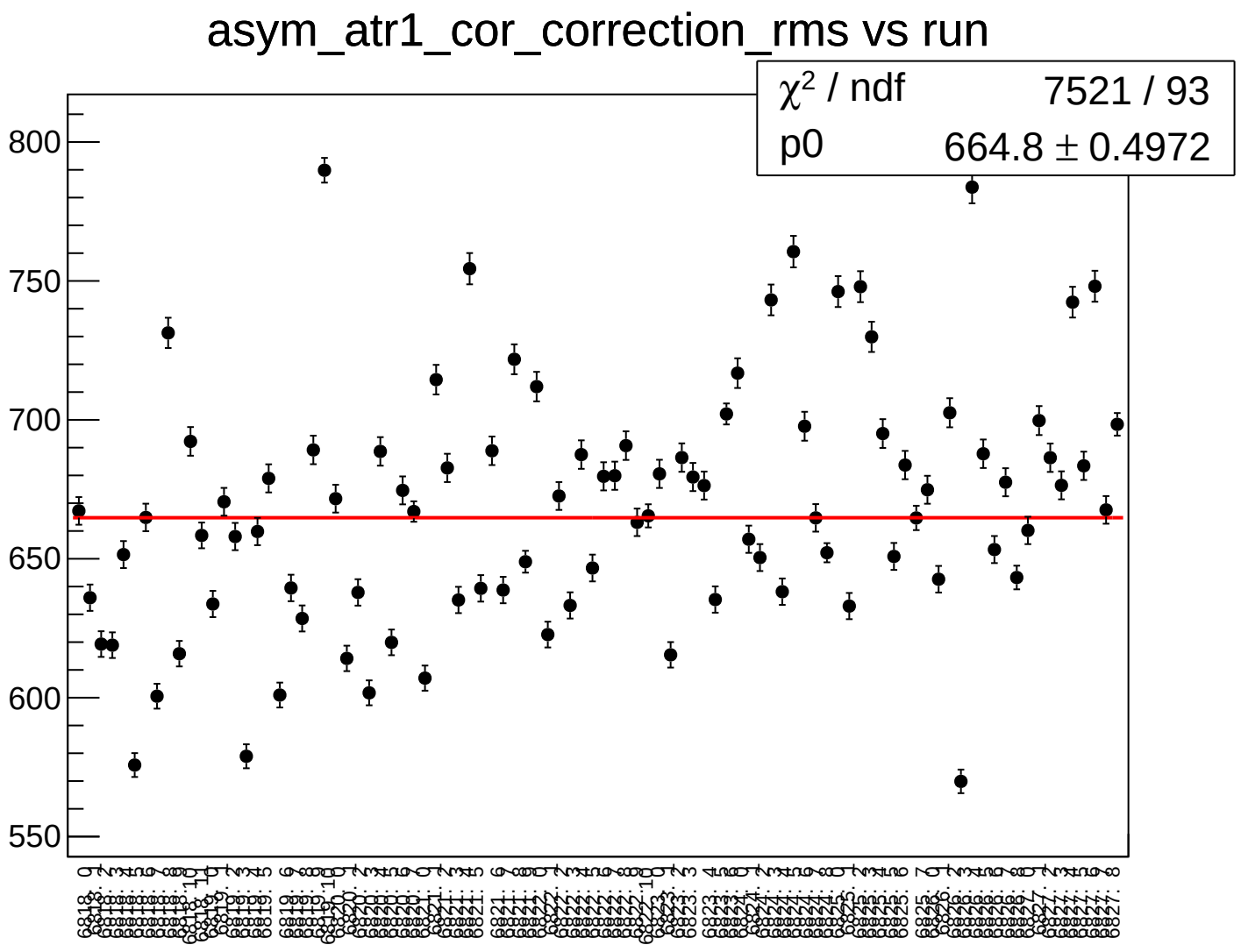

asym_atr1_reg_correction_rms vs run
χ² / ndf 7521 / 93
p0 664.7 ± 0.4972
800
750
700
650
600
550

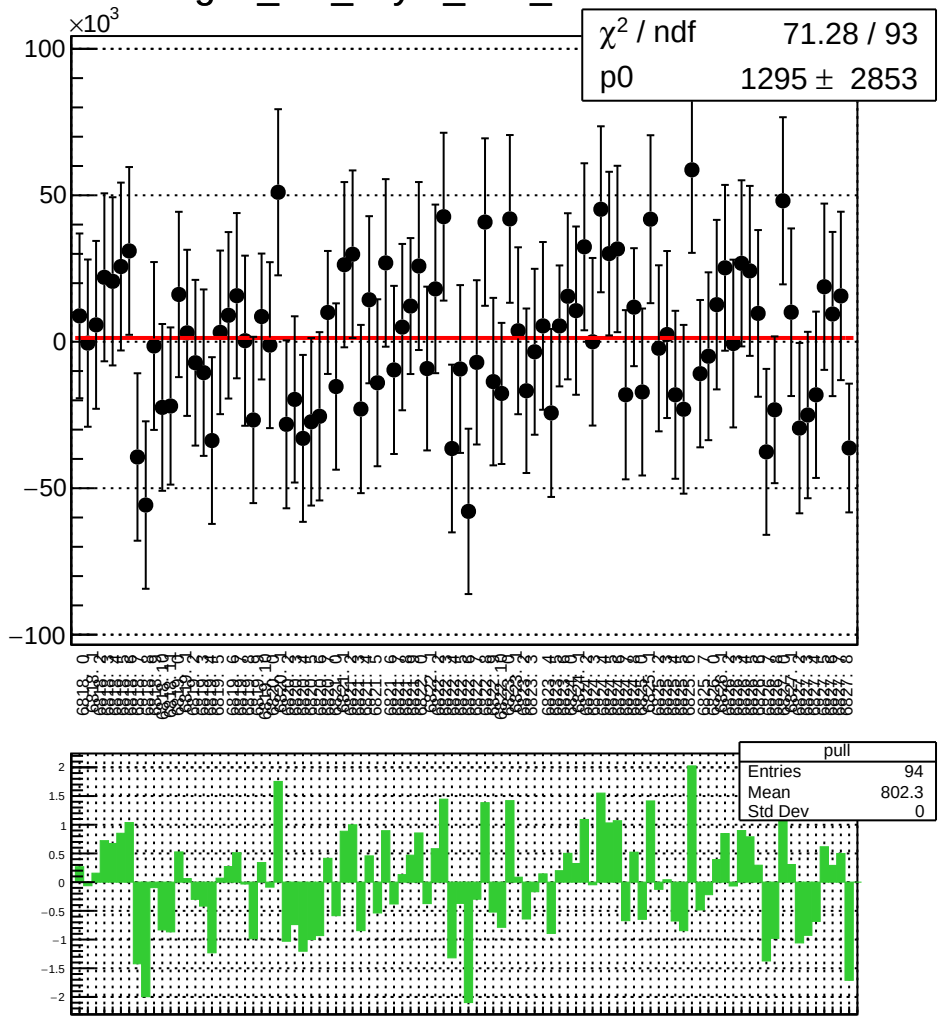

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 71.28 / 93
p0 1295 ± 2853
pull
Entries 94
Mean 802.3
Std Dev 0

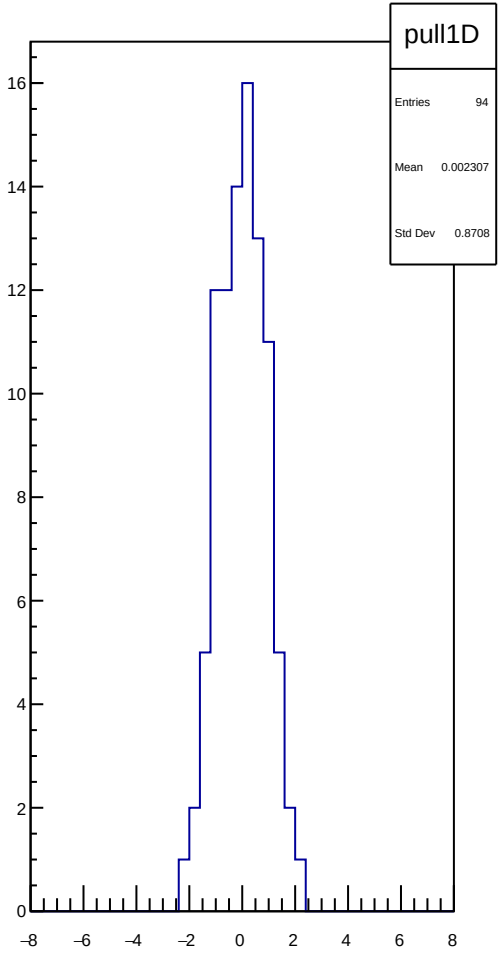

pull1D
Entries 94
Mean 0.002307
Std Dev 0.8708

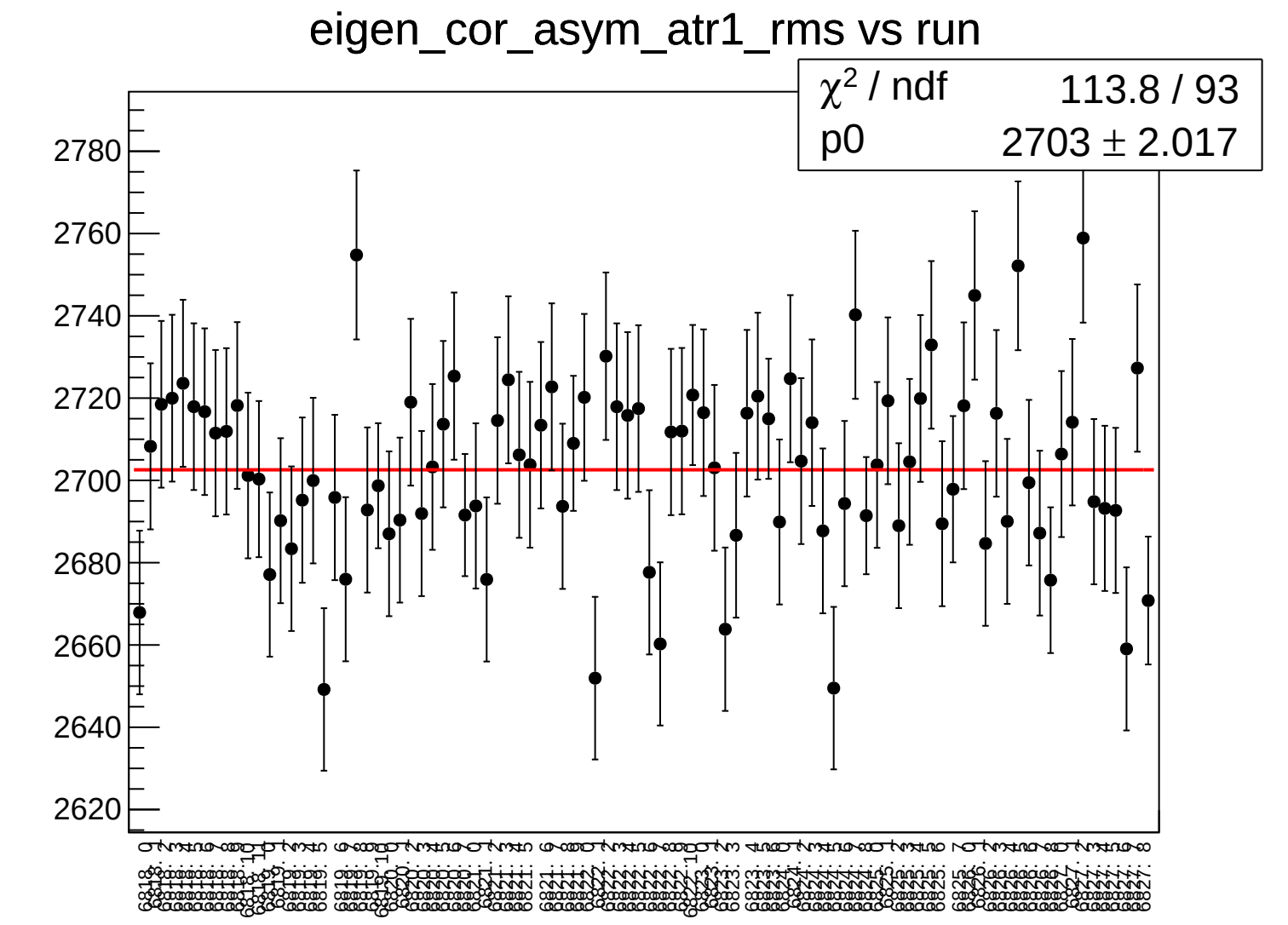

cor_asym_atr1_rms vs run
χ² / ndf 113.8 / 93
p0 2703 ± 2.017
2780
2760
2740
2720
2700
2680
2660
2640
2620

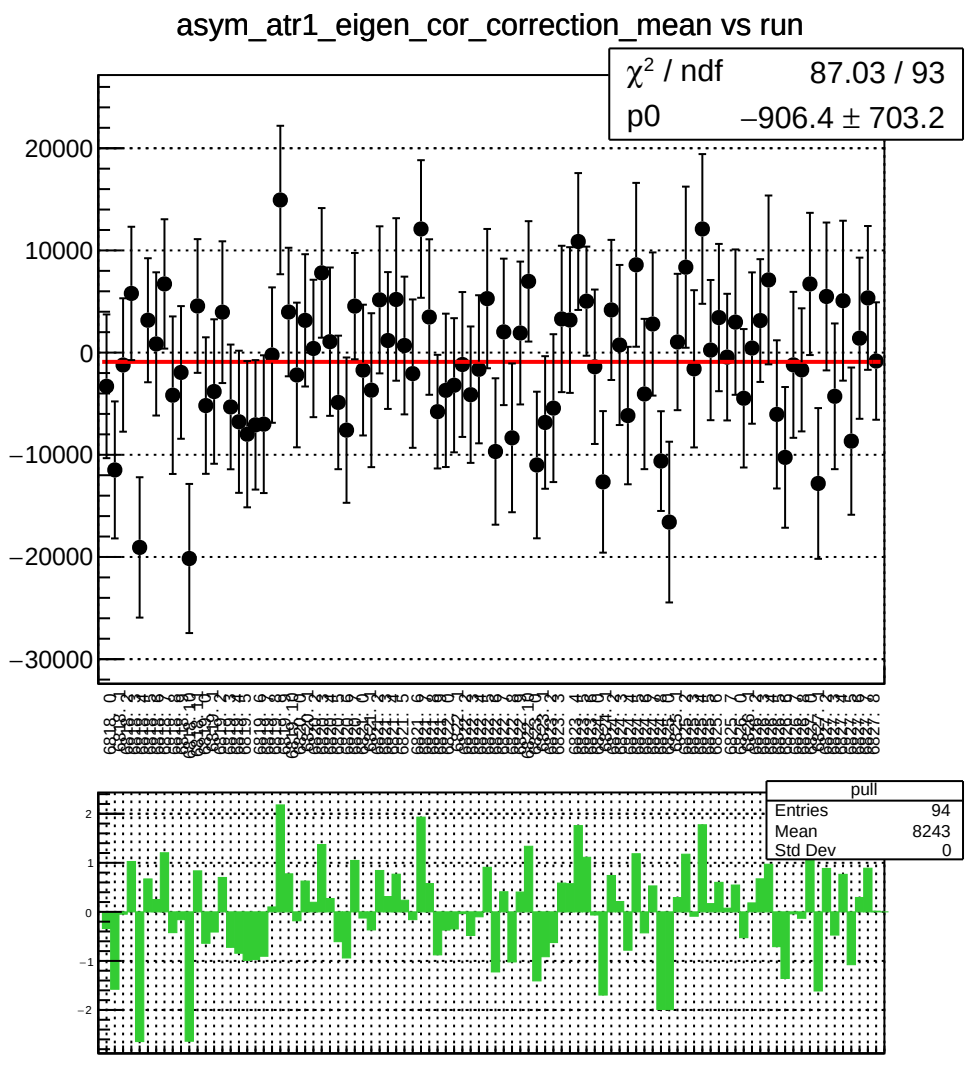

asym_atr1_cor_correction_mean vs run
χ² / ndf 87.03 / 93
p0 −906.4 ± 703.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 8243
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.000289
Std Dev 0.9622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

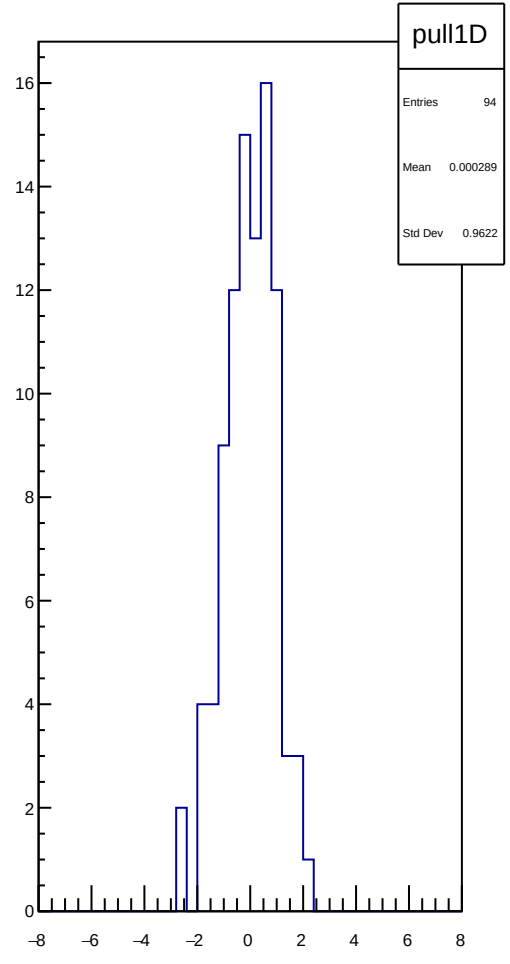

asym_atr1_cor_correction_rms vs run
χ² / ndf 7521 / 93
p0 664.8 ± 0.4972
800
750
700
650
600
550

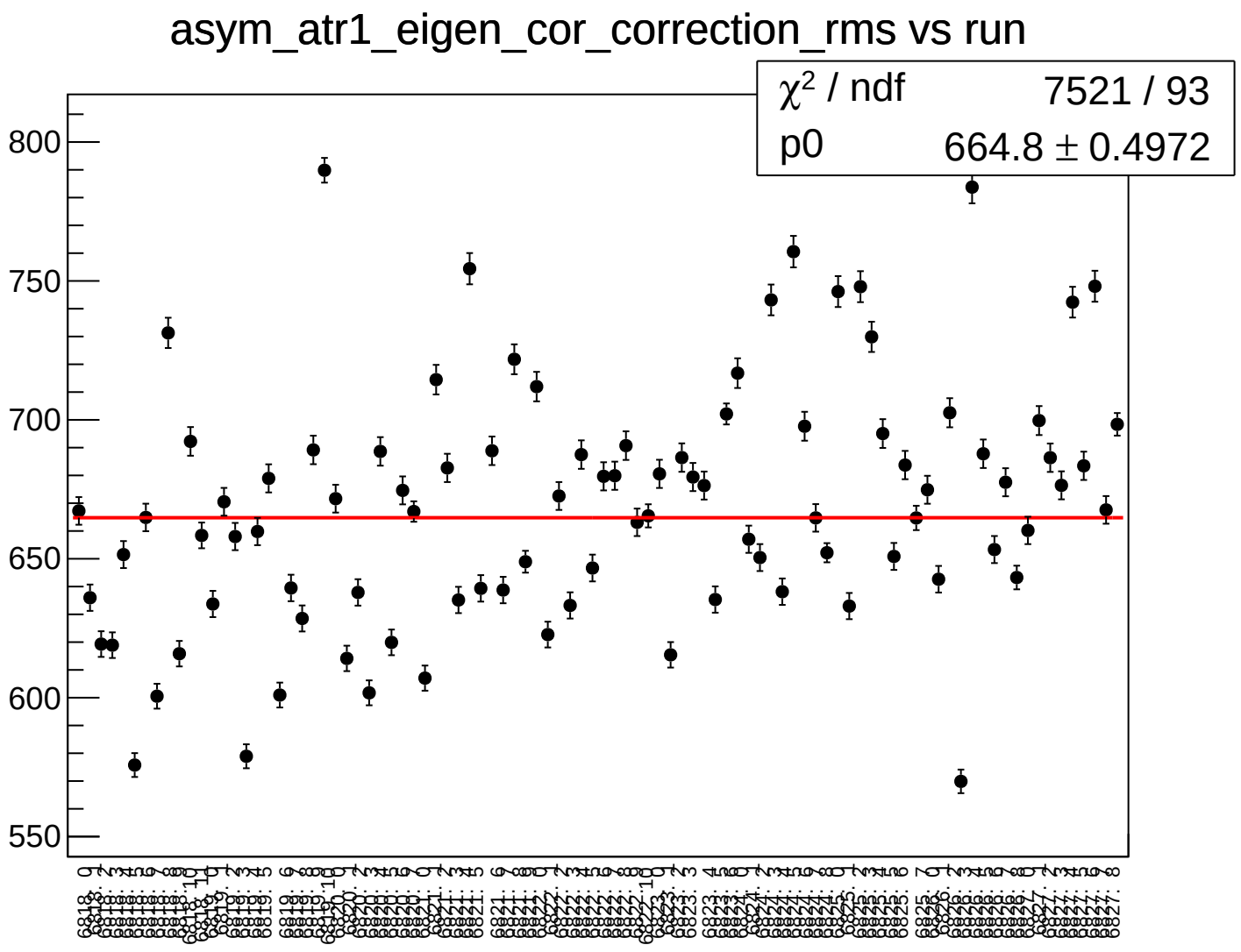

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 71.28 / 93
p0 1295 ± 2853
pull
Entries 94
Mean 802.3
Std Dev 0

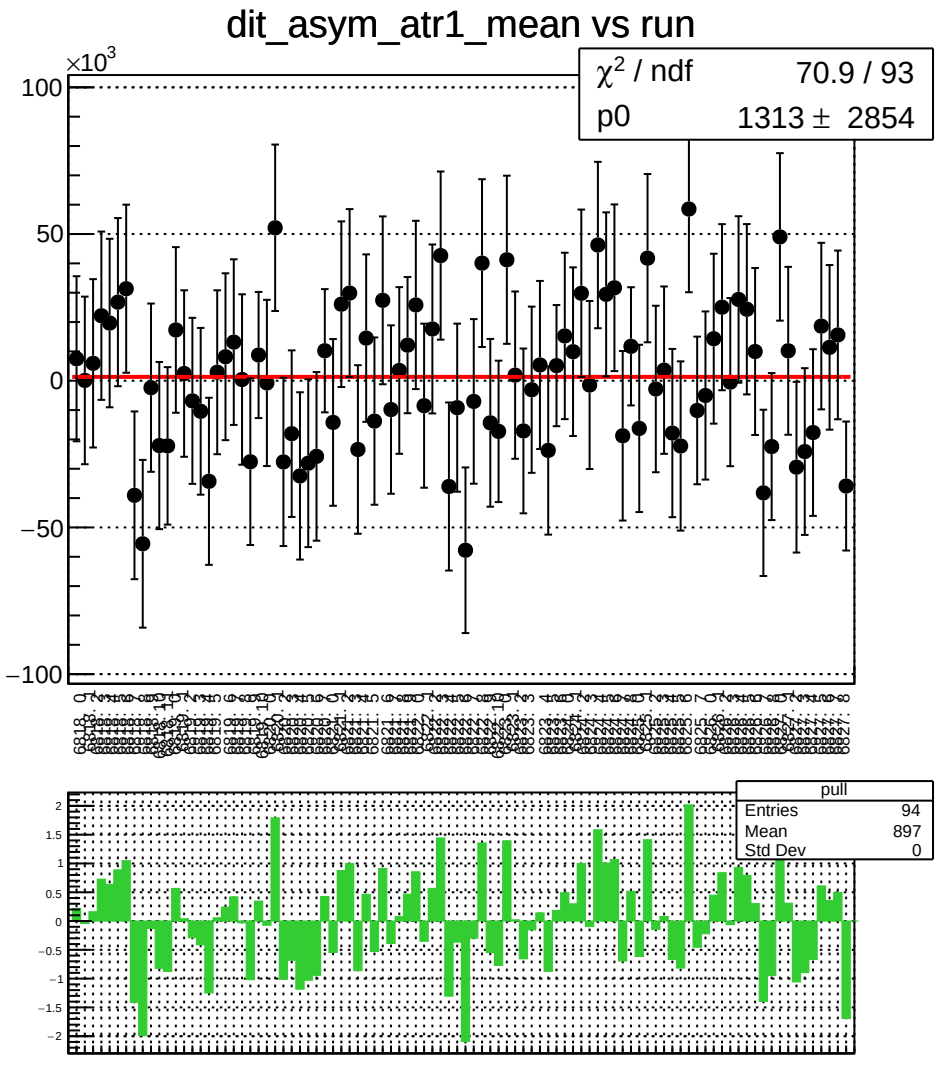

pull1D
Entries 94
Mean 0.002307
Std Dev 0.8708

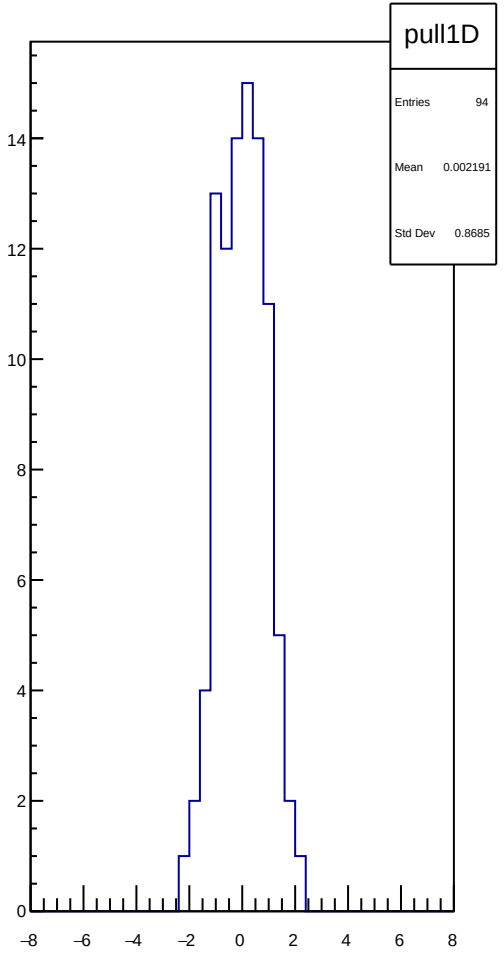

eigen_cor_asym_atr1_rms vs run
χ² / ndf 113.8 / 93
p0 2703 ± 2.017
2780
2760
2740
2720
2700
2680
2660
2640
2620

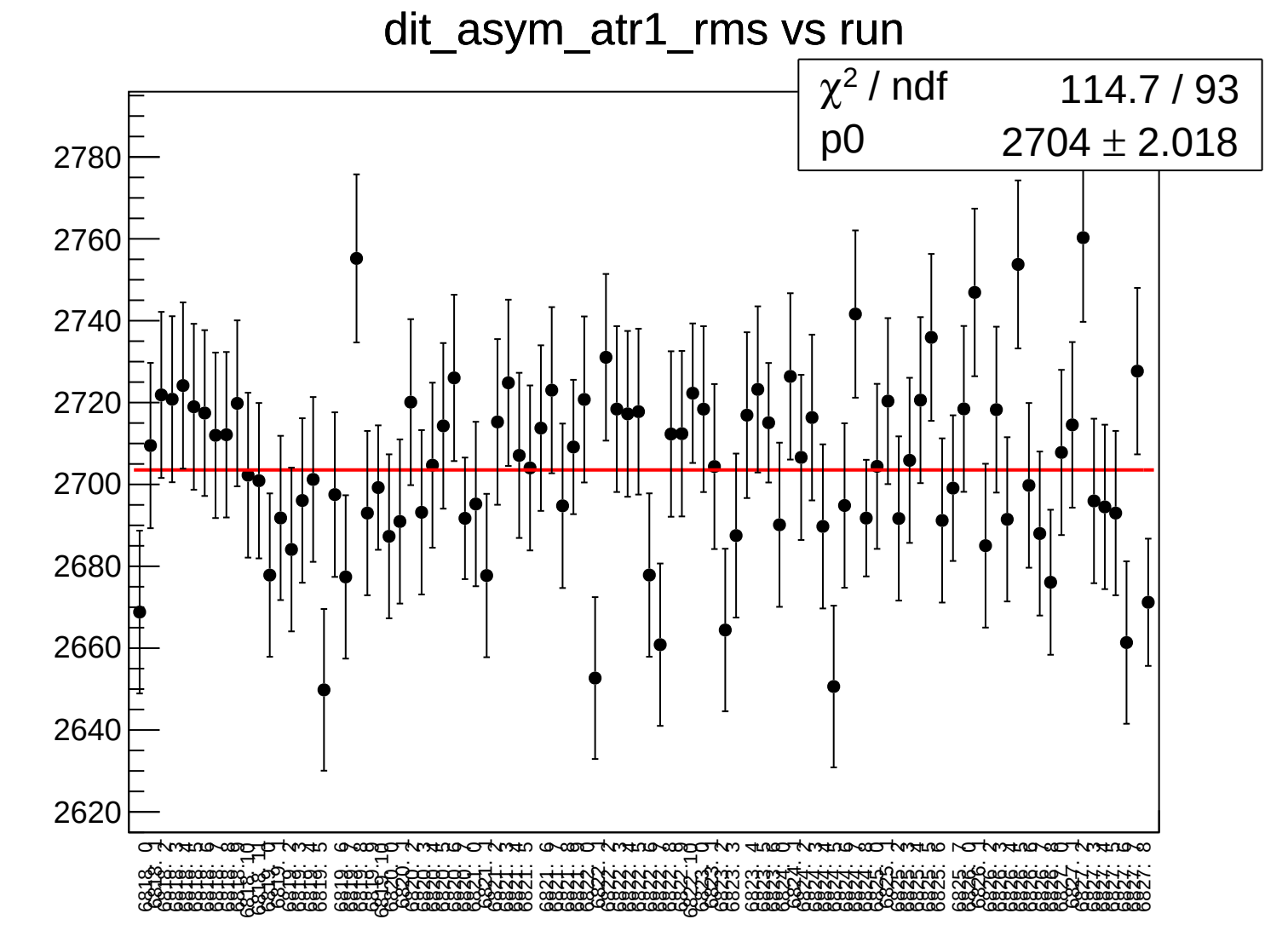

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 87.03 / 93
p0 −906.4 ± 703.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 8243
Std Dev 0
2
1
0
−1
−2

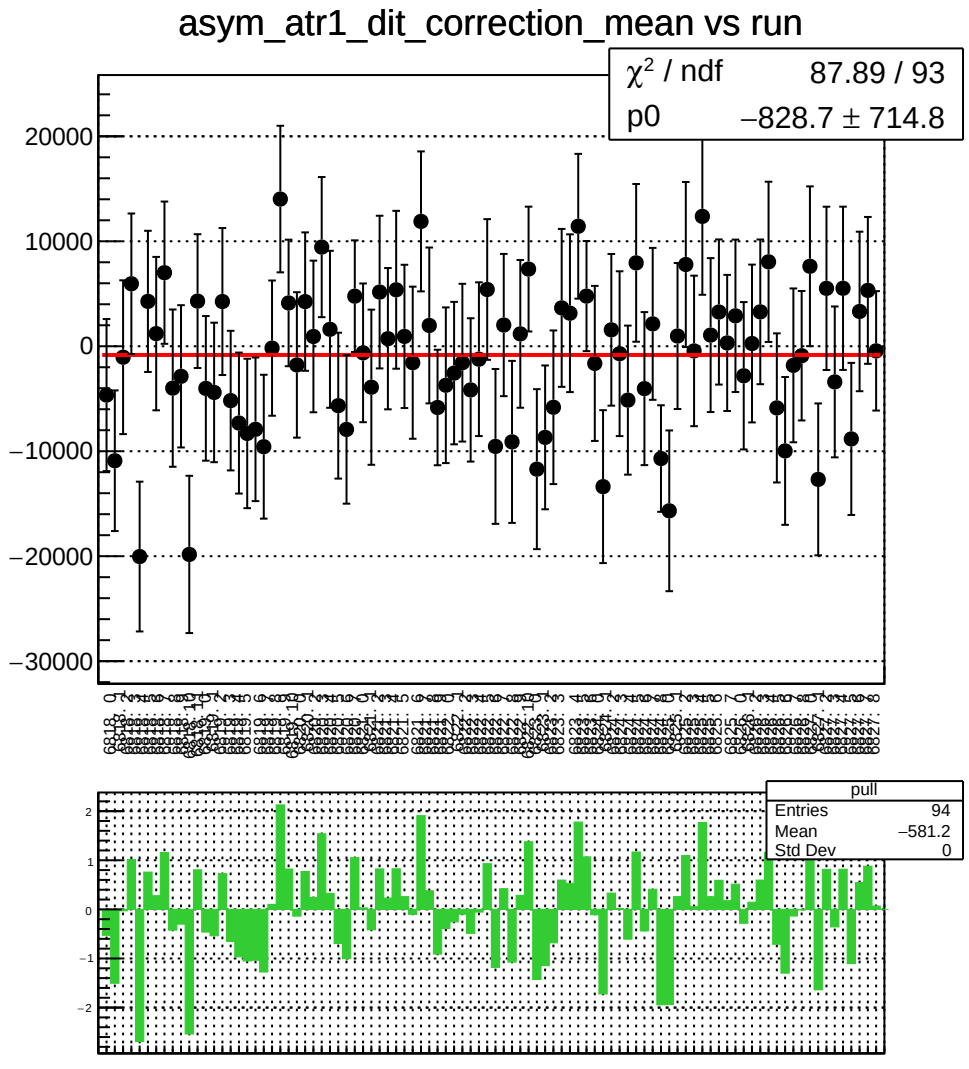

pull1D
Entries 94
Mean 0.000289
Std Dev 0.9622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

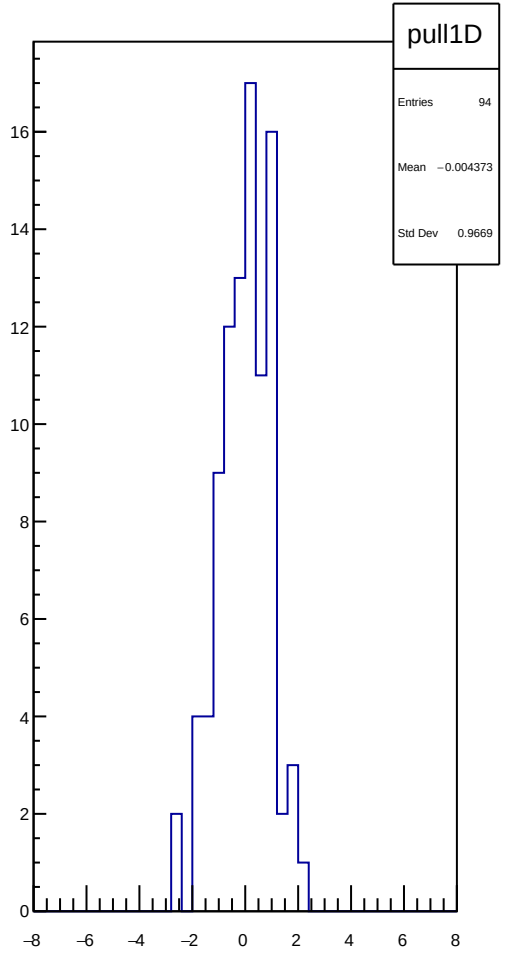

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 7521 / 93
p0 664.8 ± 0.4972
800
750
700
650
600
550

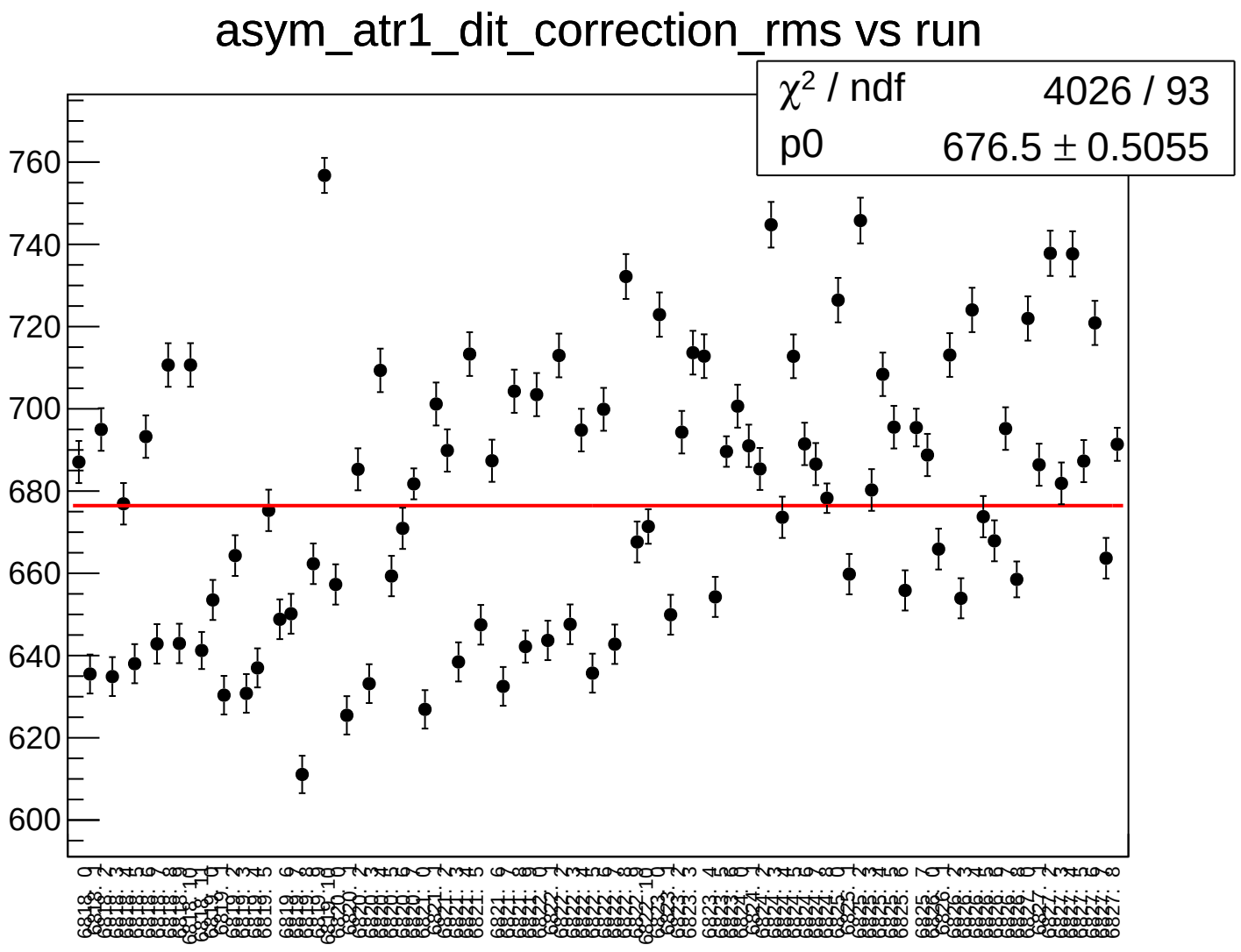

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 70.9 / 93
p0 1313 ± 2854
pull
Entries 94
Mean 897
Std Dev 0

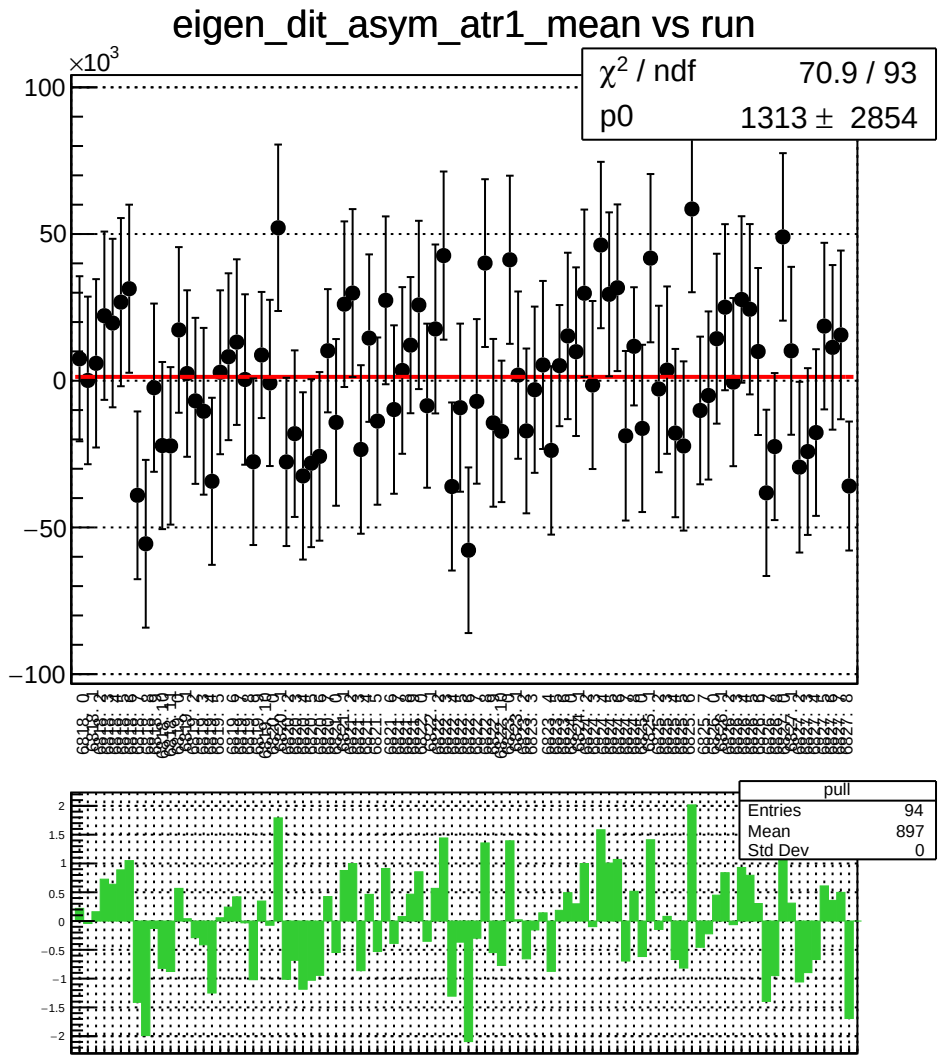

pull1D
Entries 94
Mean 0.002191
Std Dev 0.8685

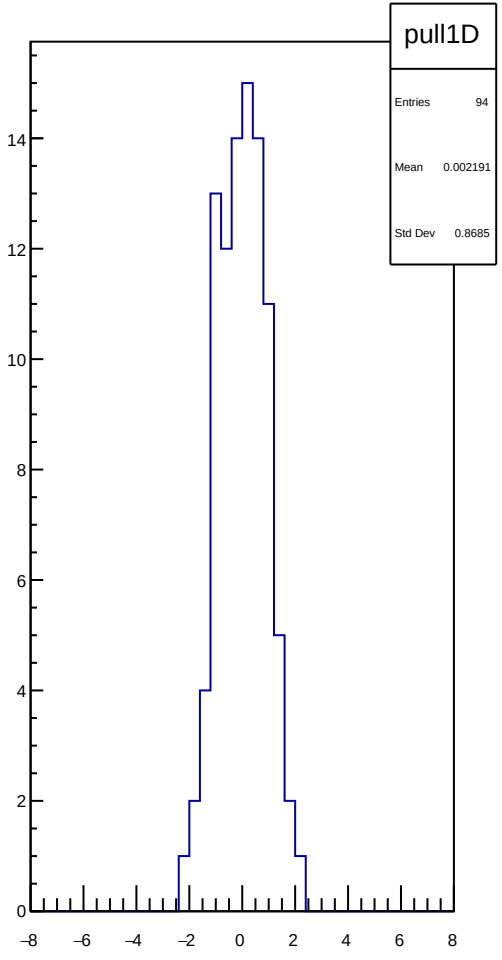

dit_asym_atr1_rms vs run
χ² / ndf 114.7 / 93
p0 2704 ± 2.018
2780
2760
2740
2720
2700
2680
2660
2640
2620

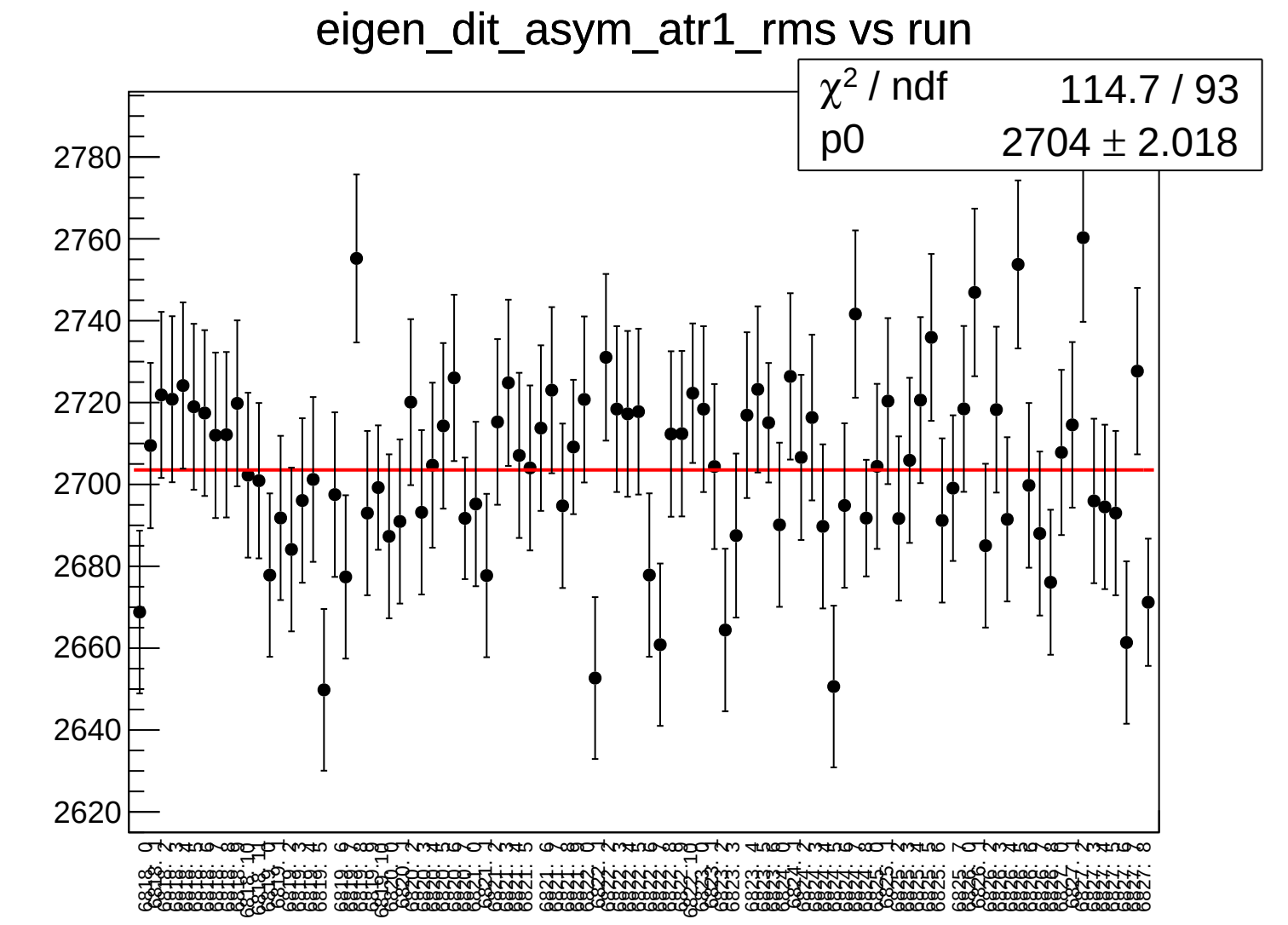

asym_atr1_dit_correction_mean vs run
χ² / ndf 87.89 / 93
p0 −828.7 ± 714.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −581.2
Std Dev 0
2
1
0
−1
−2

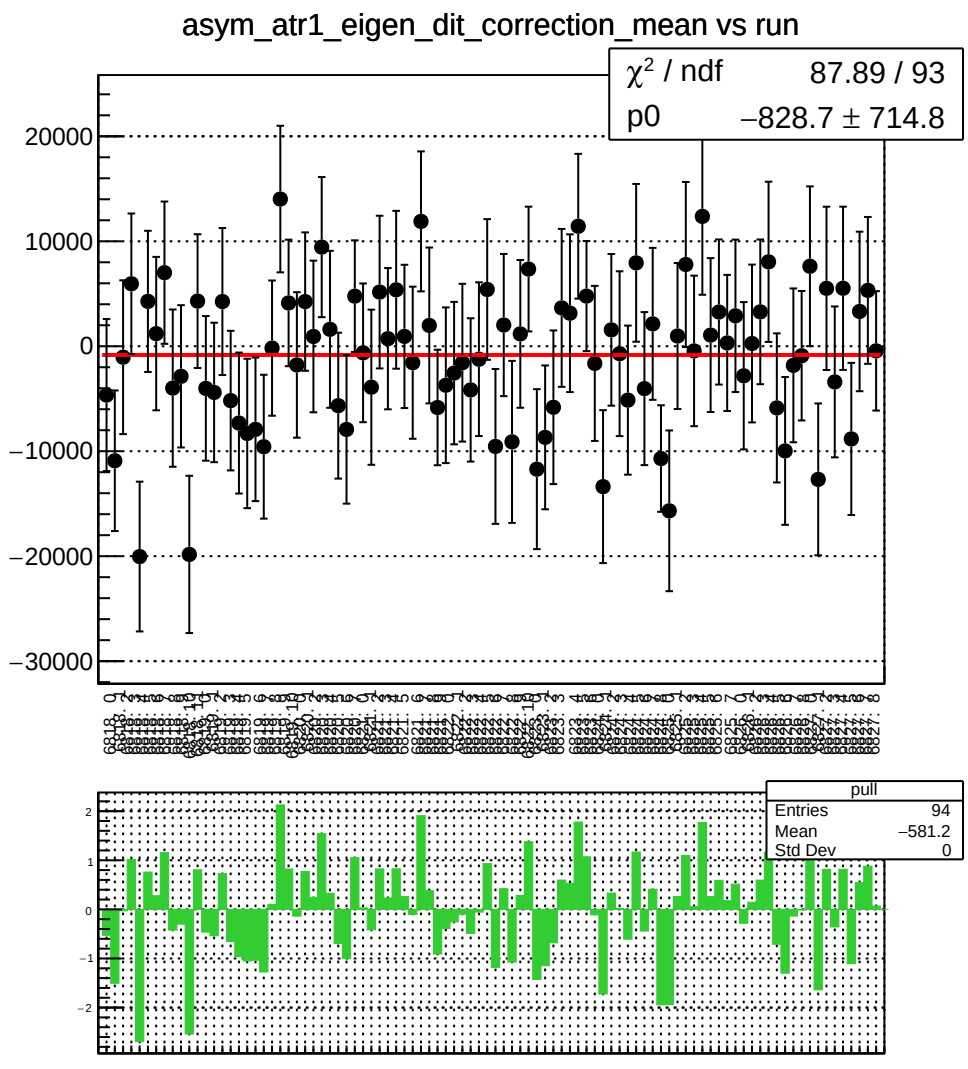

pull1D
Entries 94
Mean −0.004373
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

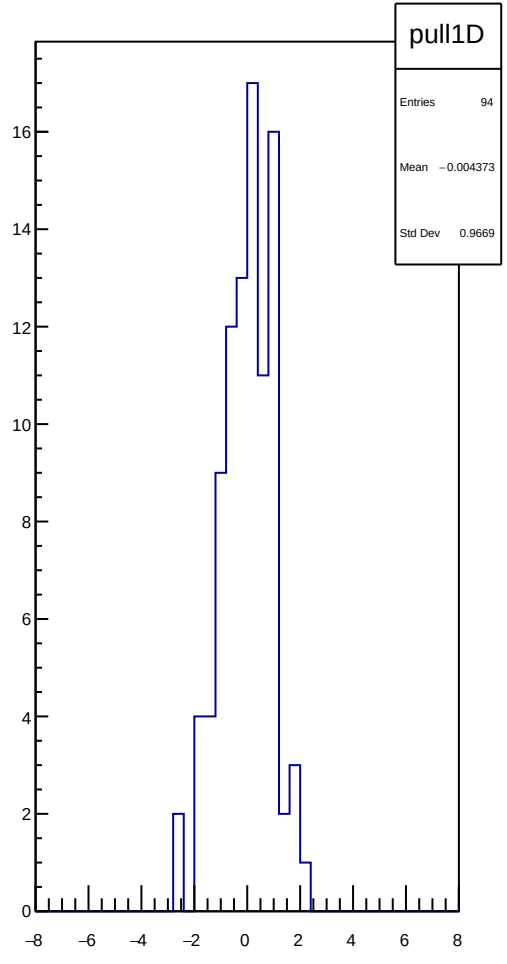

asym_atr1_dit_correction_rms vs run
χ² / ndf 4026 / 93
p0 676.5 ± 0.5055
760
740
720
700
680
660
640
620
600

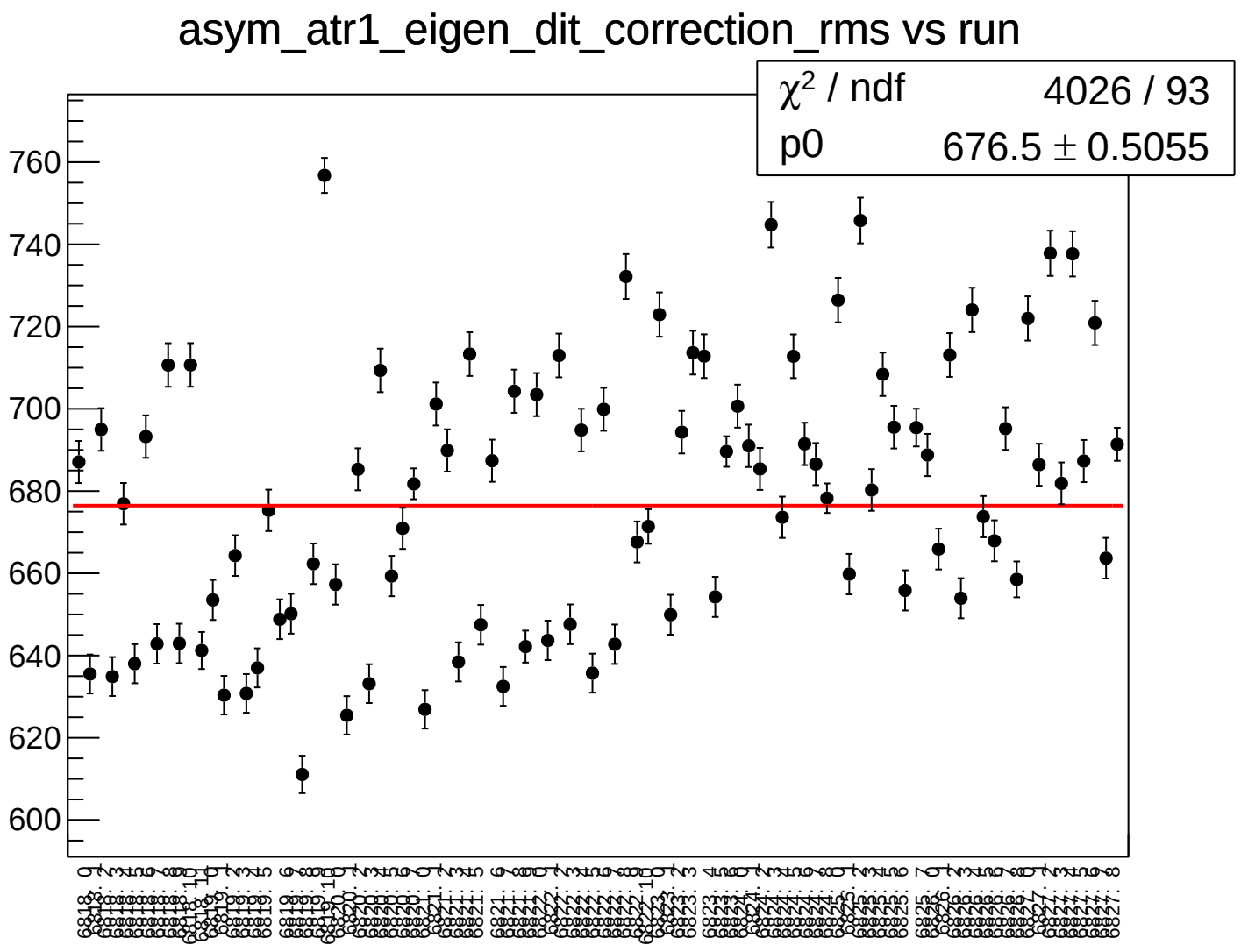

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 70.9 / 93
p0 1313 ± 2854
pull
Entries 94
Mean 897
Std Dev 0

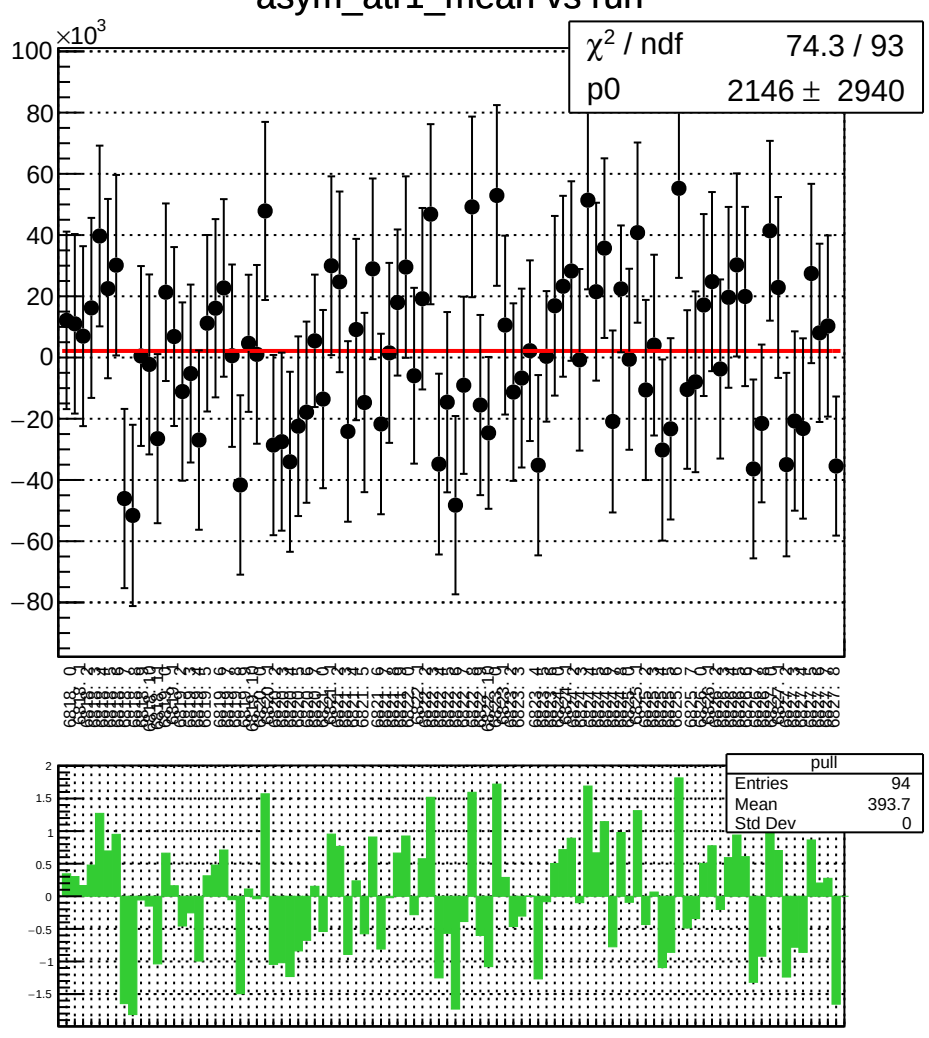

pull1D
Entries 94
Mean 0.002191
Std Dev 0.8685

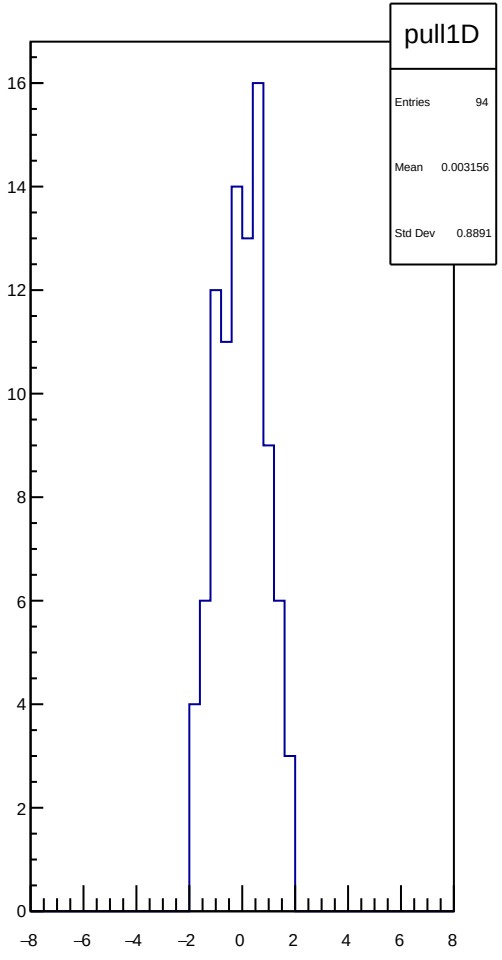

eigen_dit_asym_atr1_rms vs run
χ² / ndf 114.7 / 93
p0 2704 ± 2.018
2780
2760
2740
2720
2700
2680
2660
2640
2620

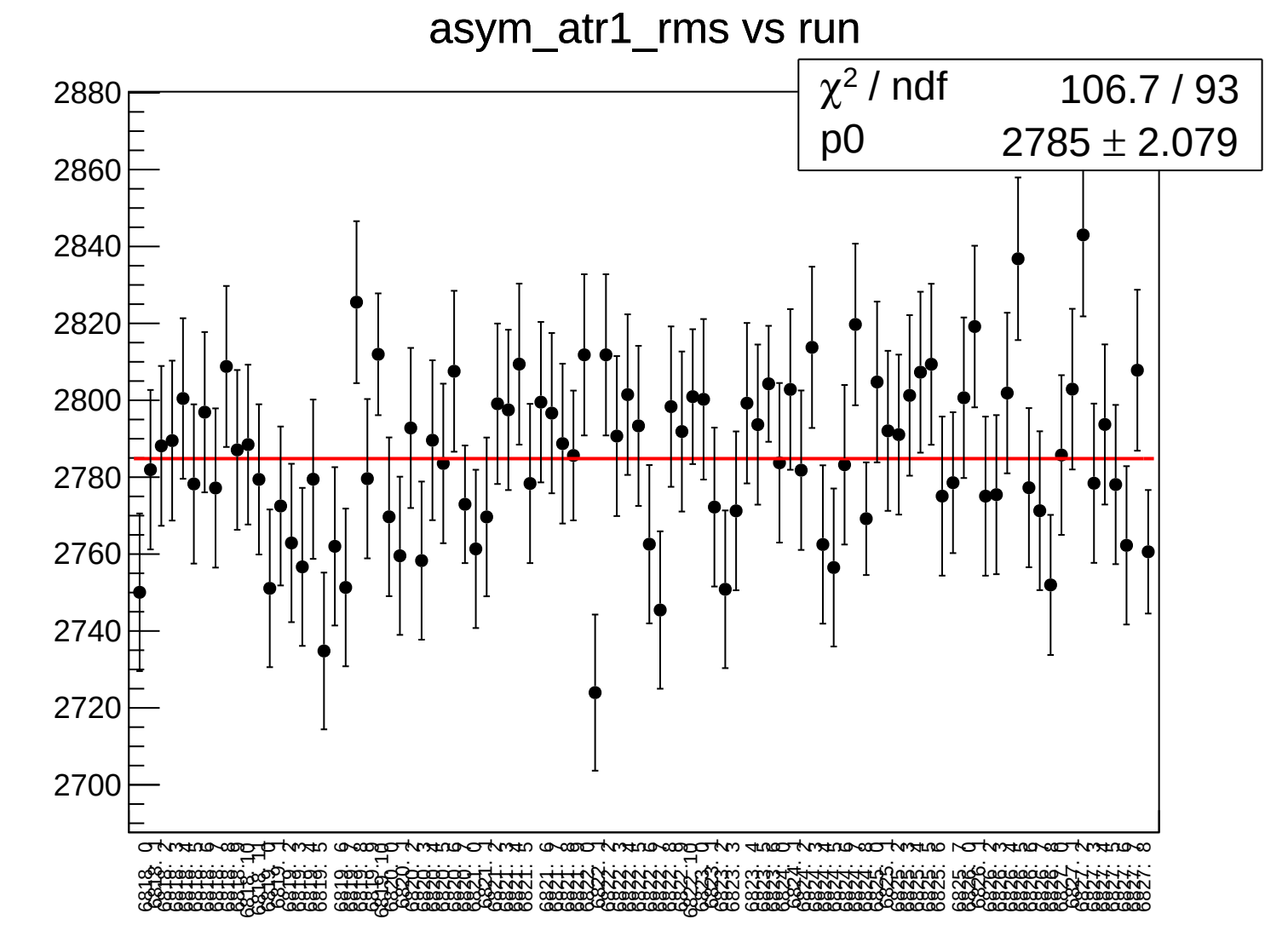

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 87.89 / 93
p0 −828.7 ± 714.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −581.2
Std Dev 0
2
1
0
−1
−2

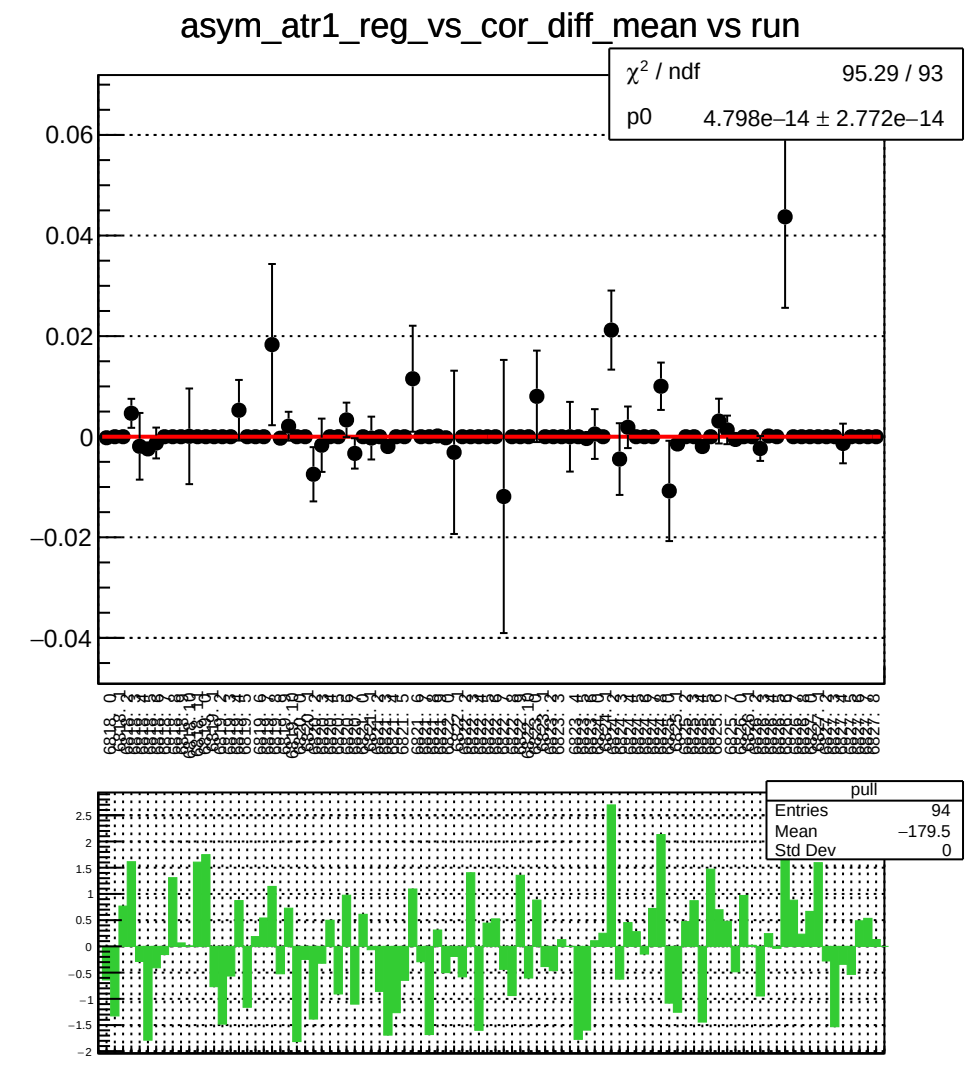

pull1D
Entries 94
Mean −0.004373
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

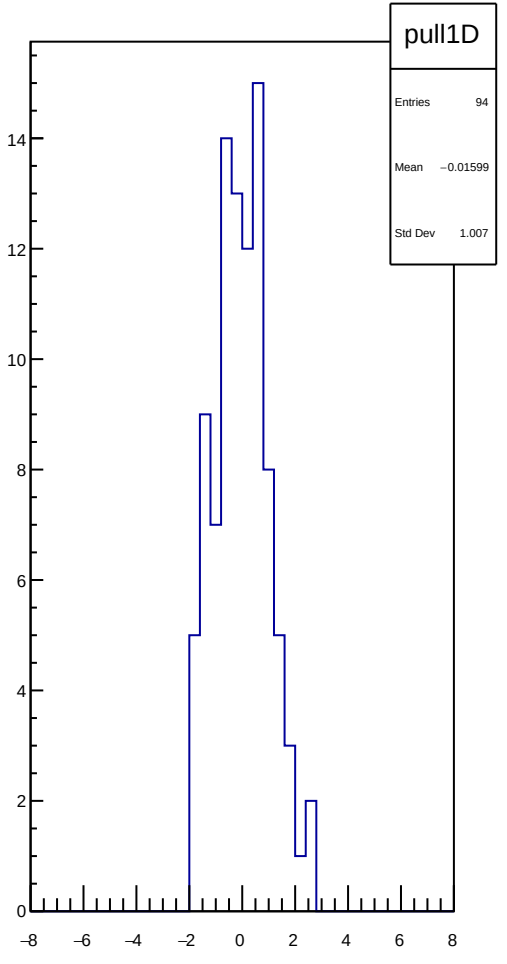

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 4026 / 93
p0 676.5 ± 0.5055
760
740
720
700
680
660
640
620
600

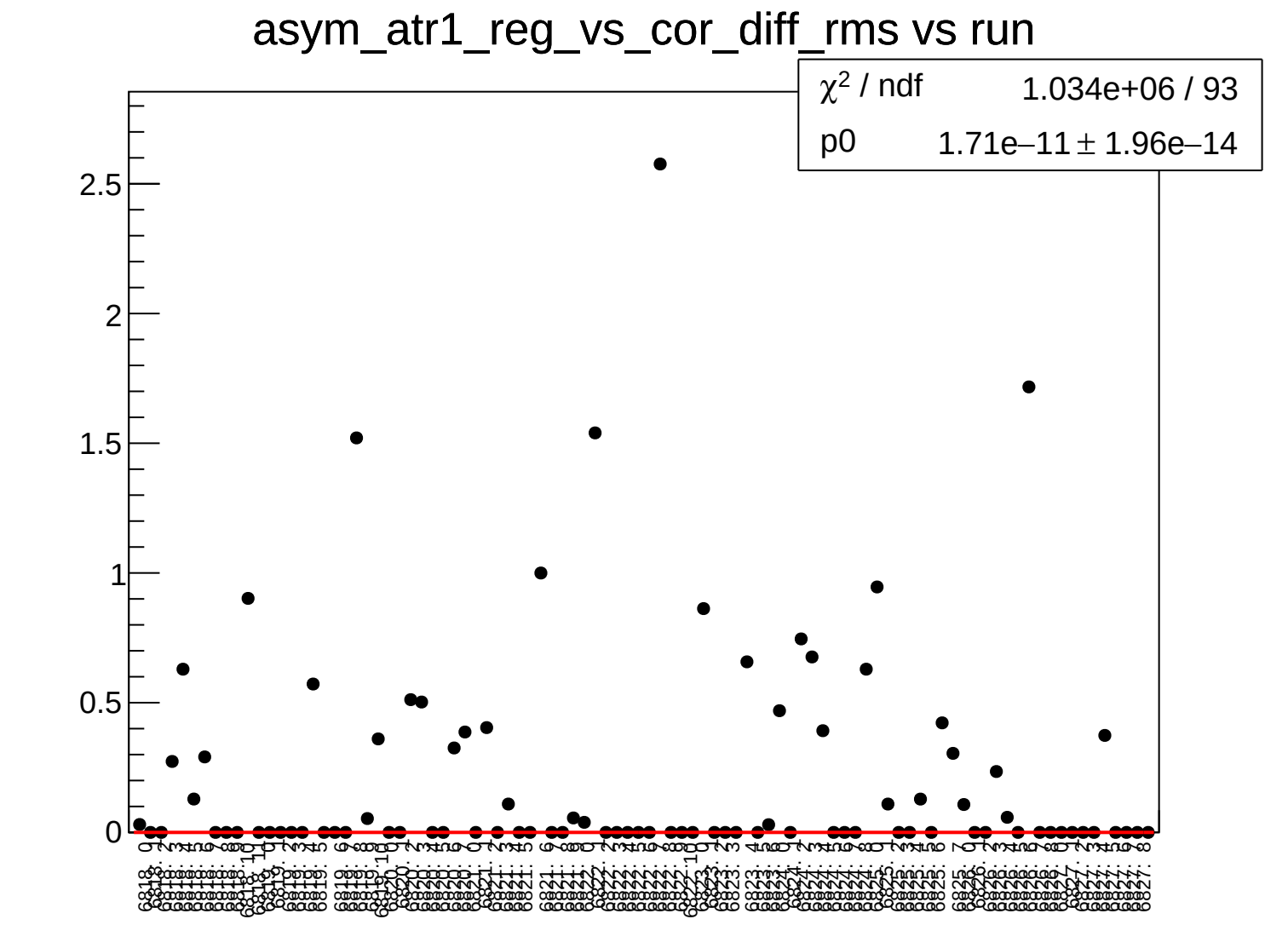

asym_atr1_mean vs run
×10^3
χ² / ndf 74.3 / 93
p0 2146 ± 2940
pull
Entries 94
Mean 393.7
Std Dev 0

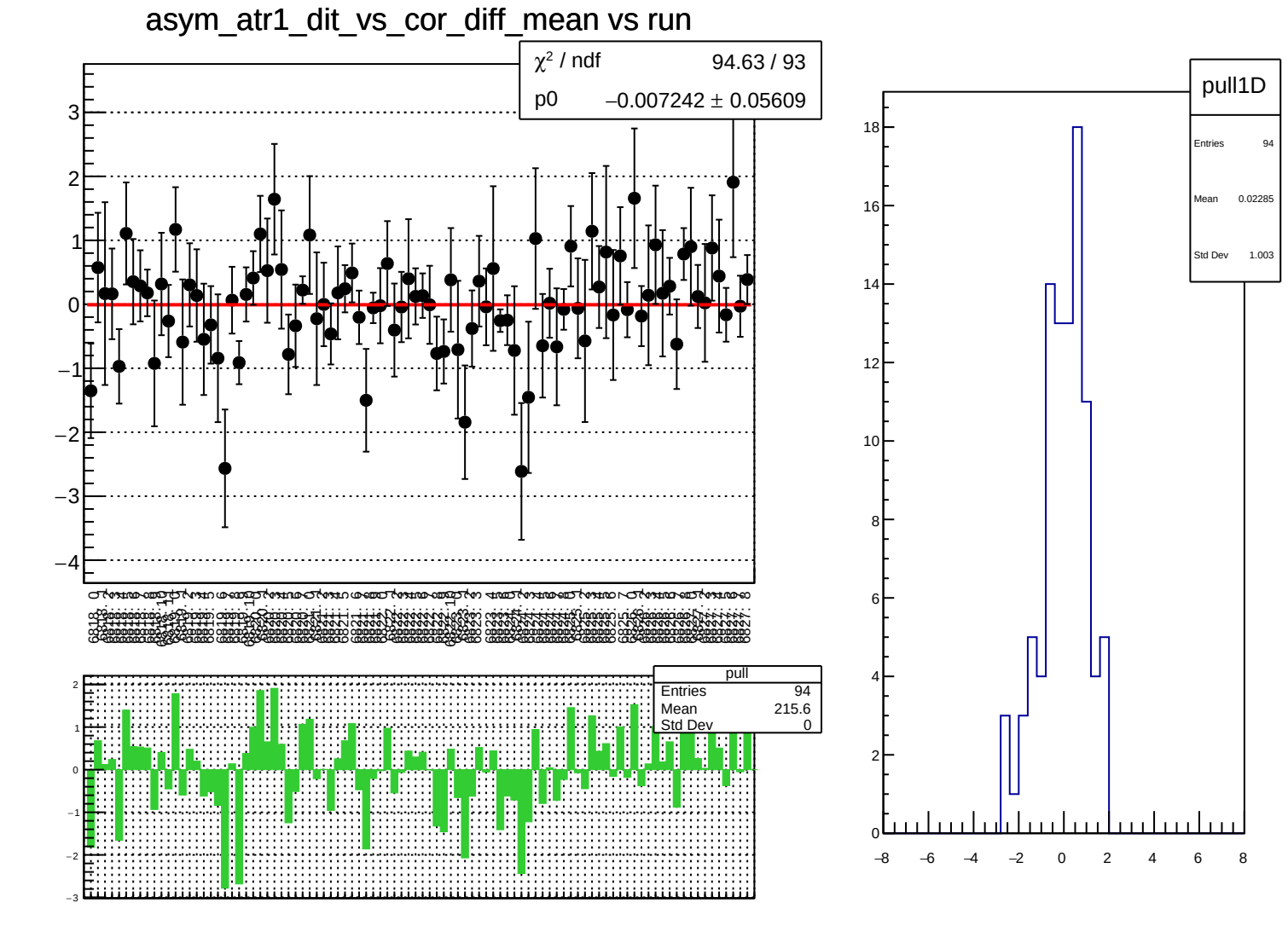

pull1D
Entries 94
Mean 0.003156
Std Dev 0.8891

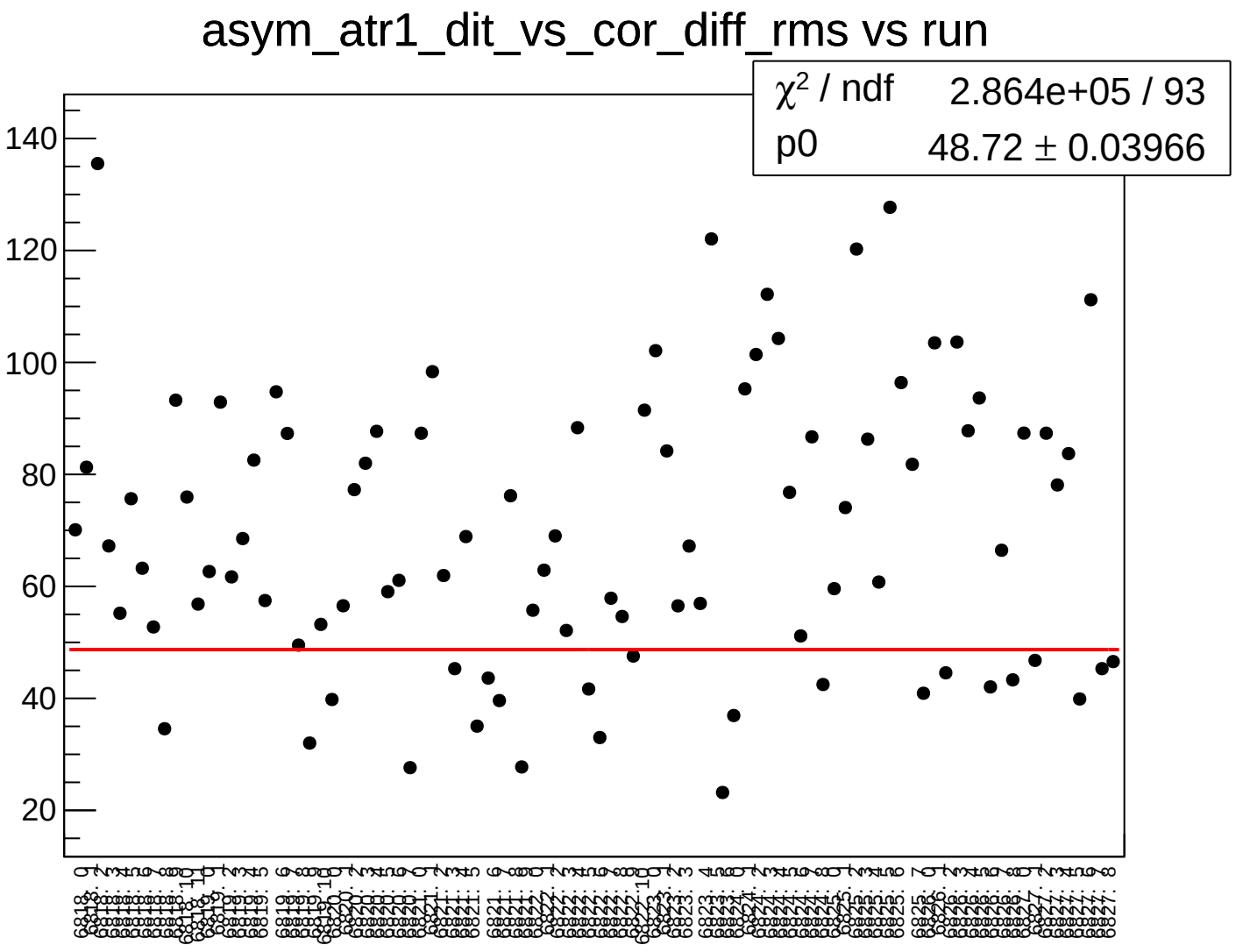

asym_atr1_rms vs run
χ² / ndf 106.7 / 93
p0 2785 ± 2.079
2880
2860
2840
2820
2800
2780
2760
2740
2720
2700

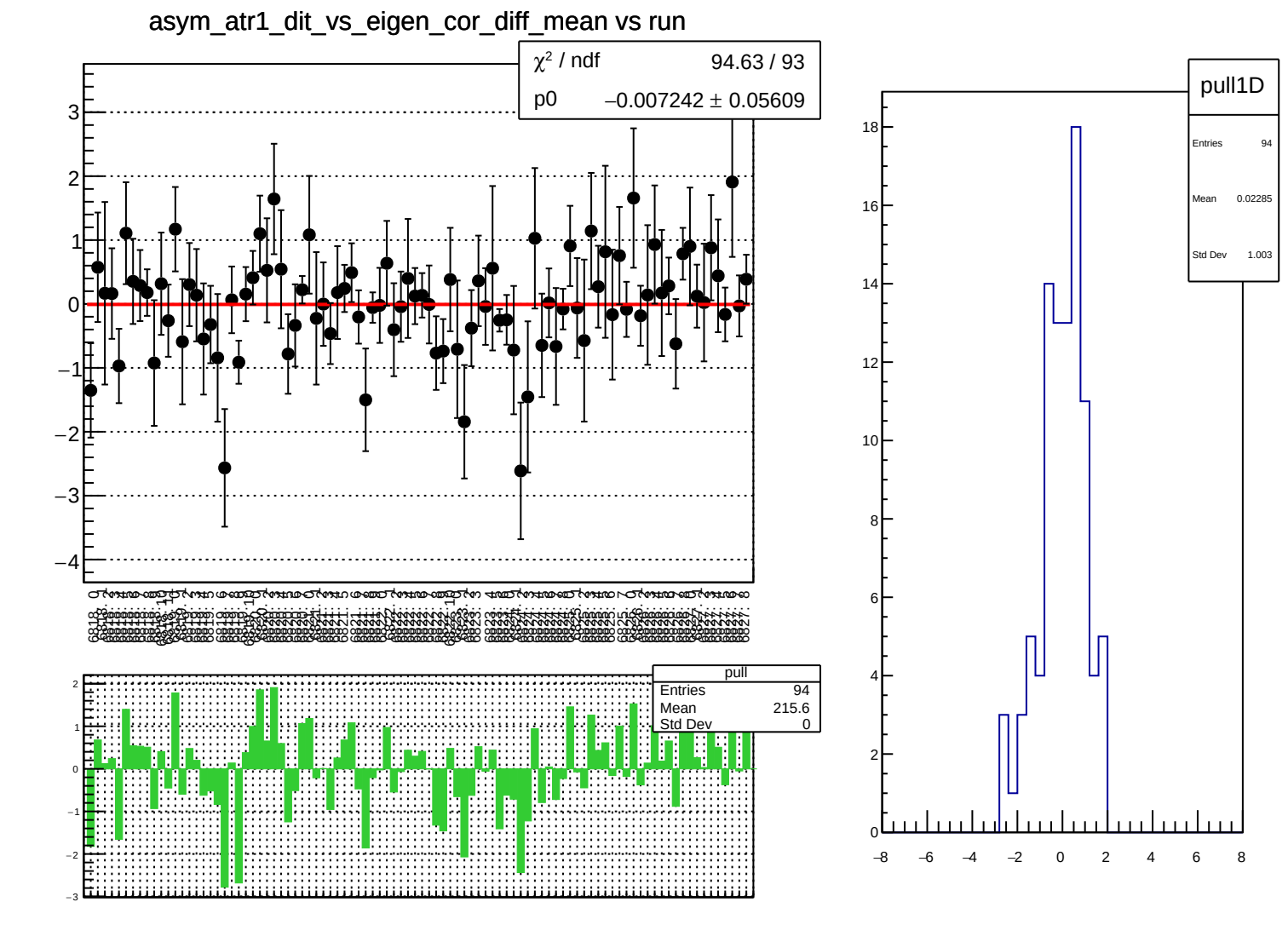

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.29 / 93
p0 4.798e−14 ± 2.772e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −179.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

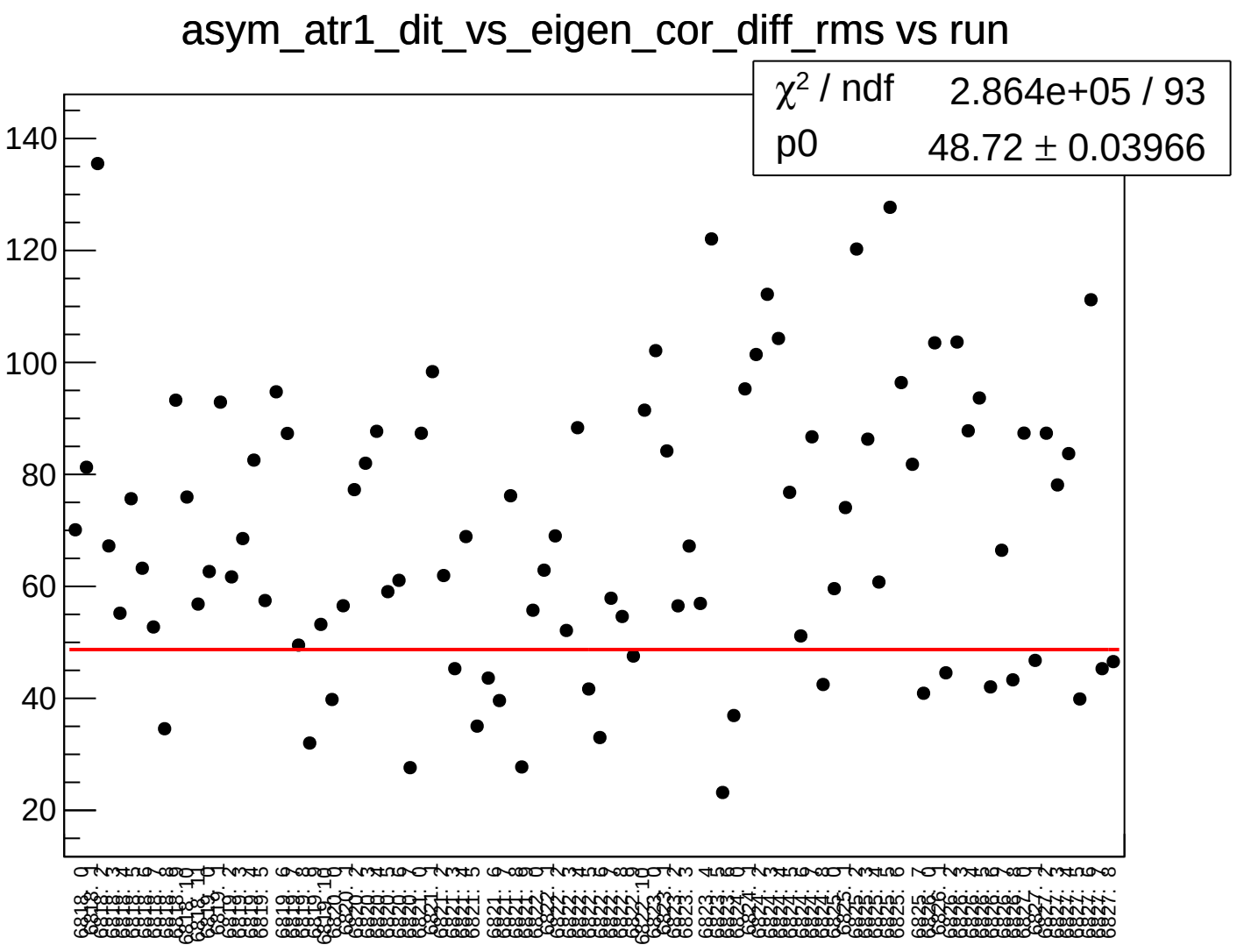

pull1D
Entries 94
Mean −0.01599
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

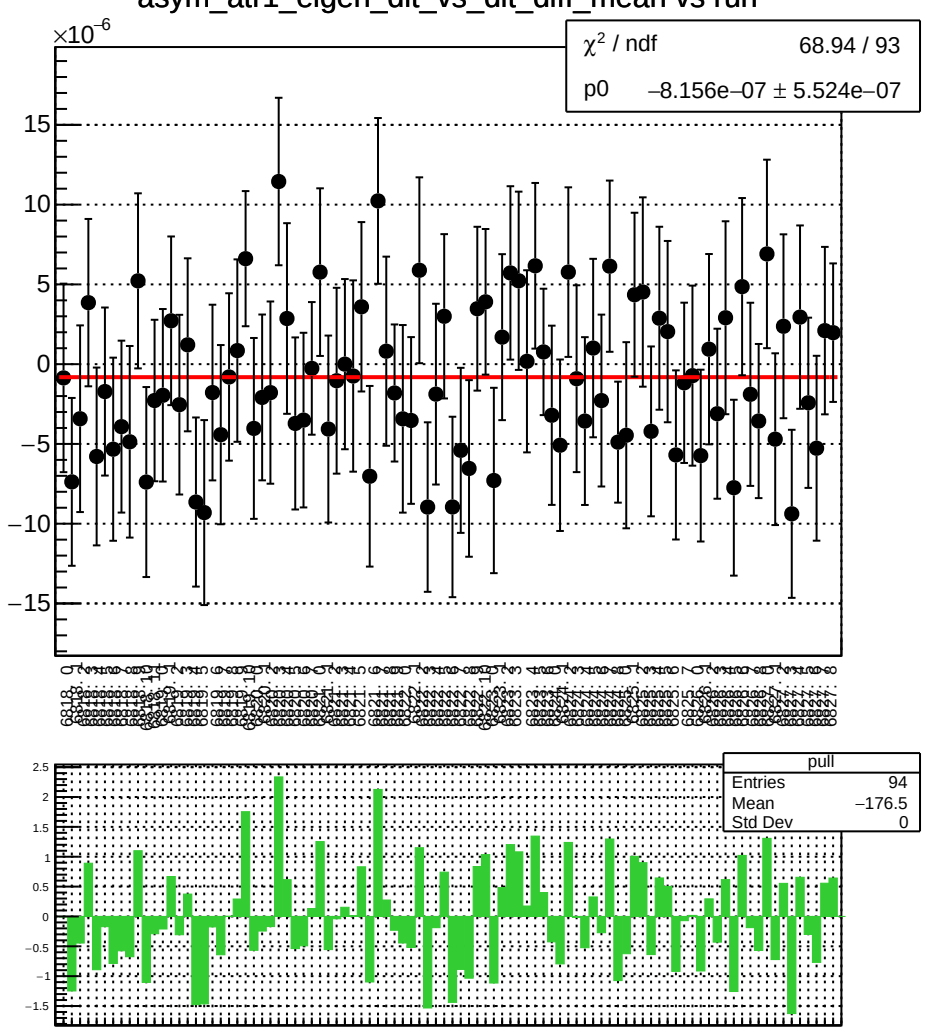

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 93
p0 1.71e−11 ± 1.96e−14
2.5
2
1.5
1
0.5
0

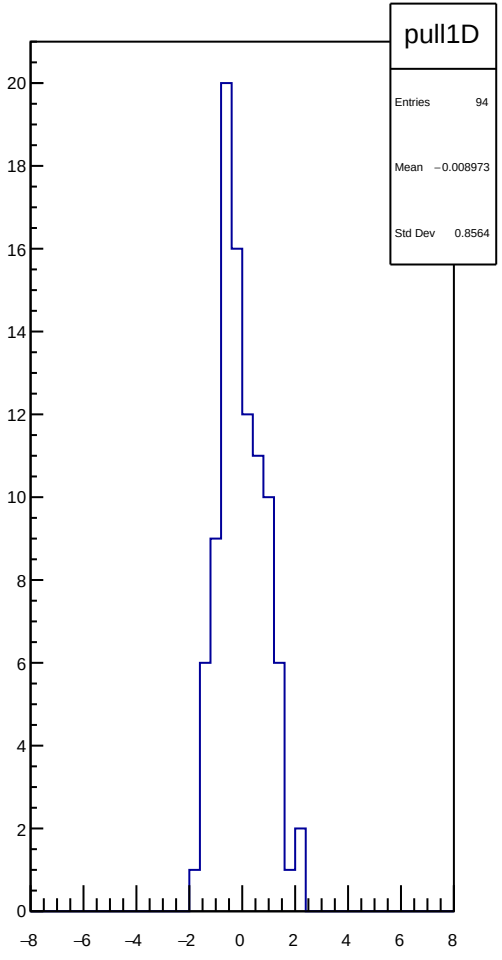

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.63 / 93
p0 −0.007242 ± 0.05609
pull
Entries 94
Mean 215.6
Std Dev 0
pull1D
Entries 94
Mean 0.02285
Std Dev 1.003

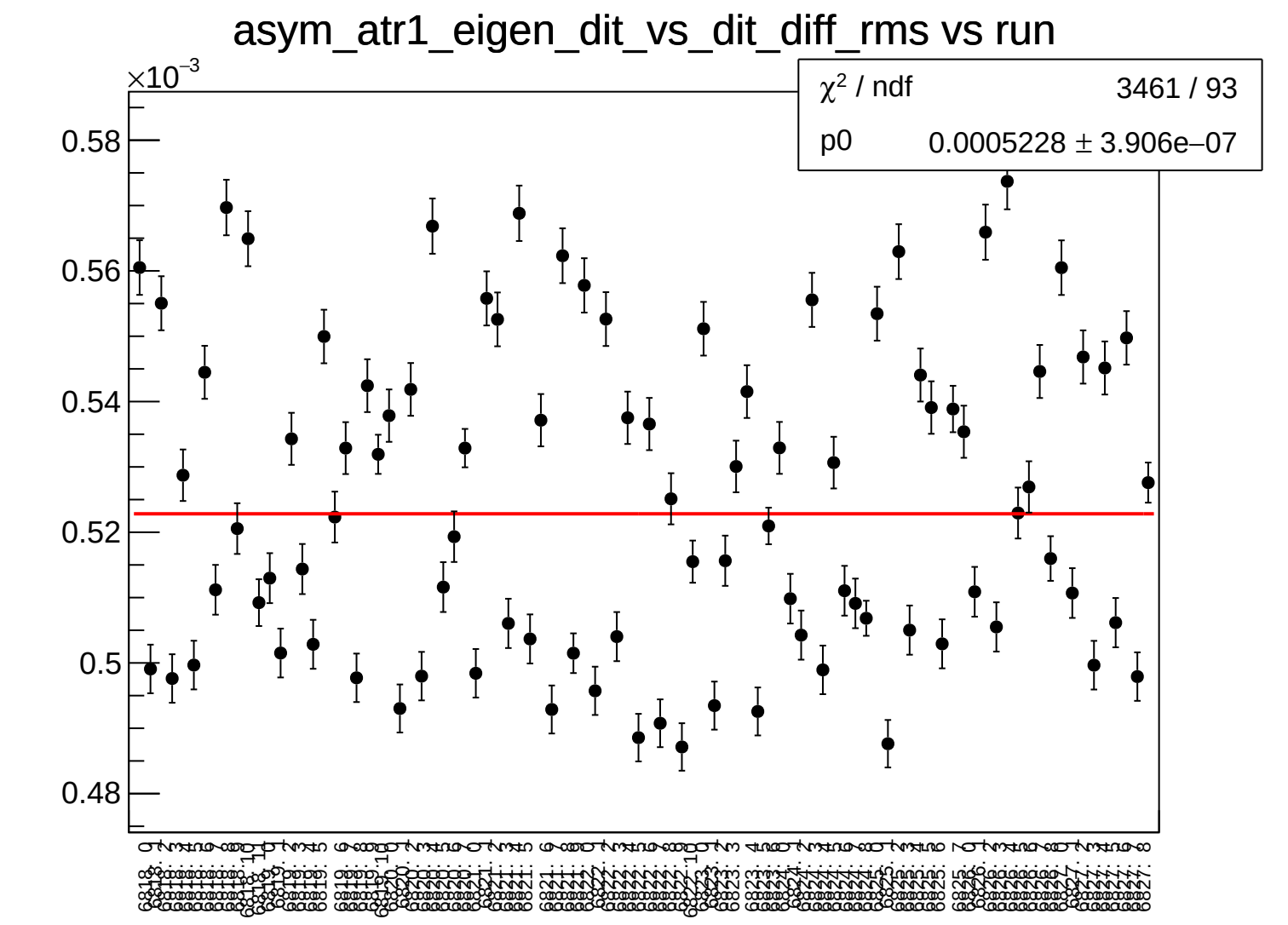

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 93
p0 48.72 ± 0.03966
140
120
100
80
60
40
20

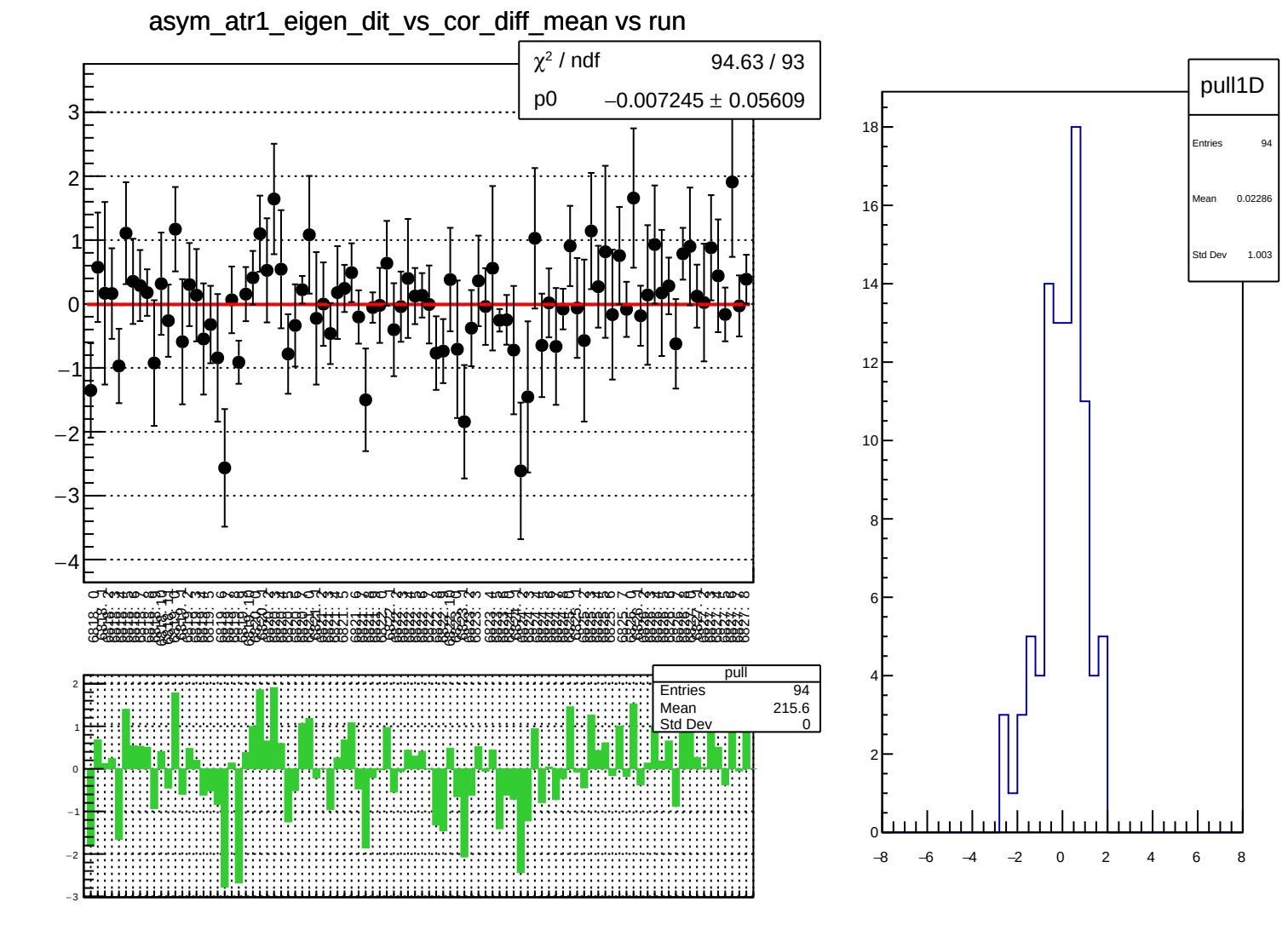

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.63 / 93
p0 −0.007242 ± 0.05609
pull
Entries 94
Mean 215.6
Std Dev 0
pull1D
Entries 94
Mean 0.02285
Std Dev 1.003

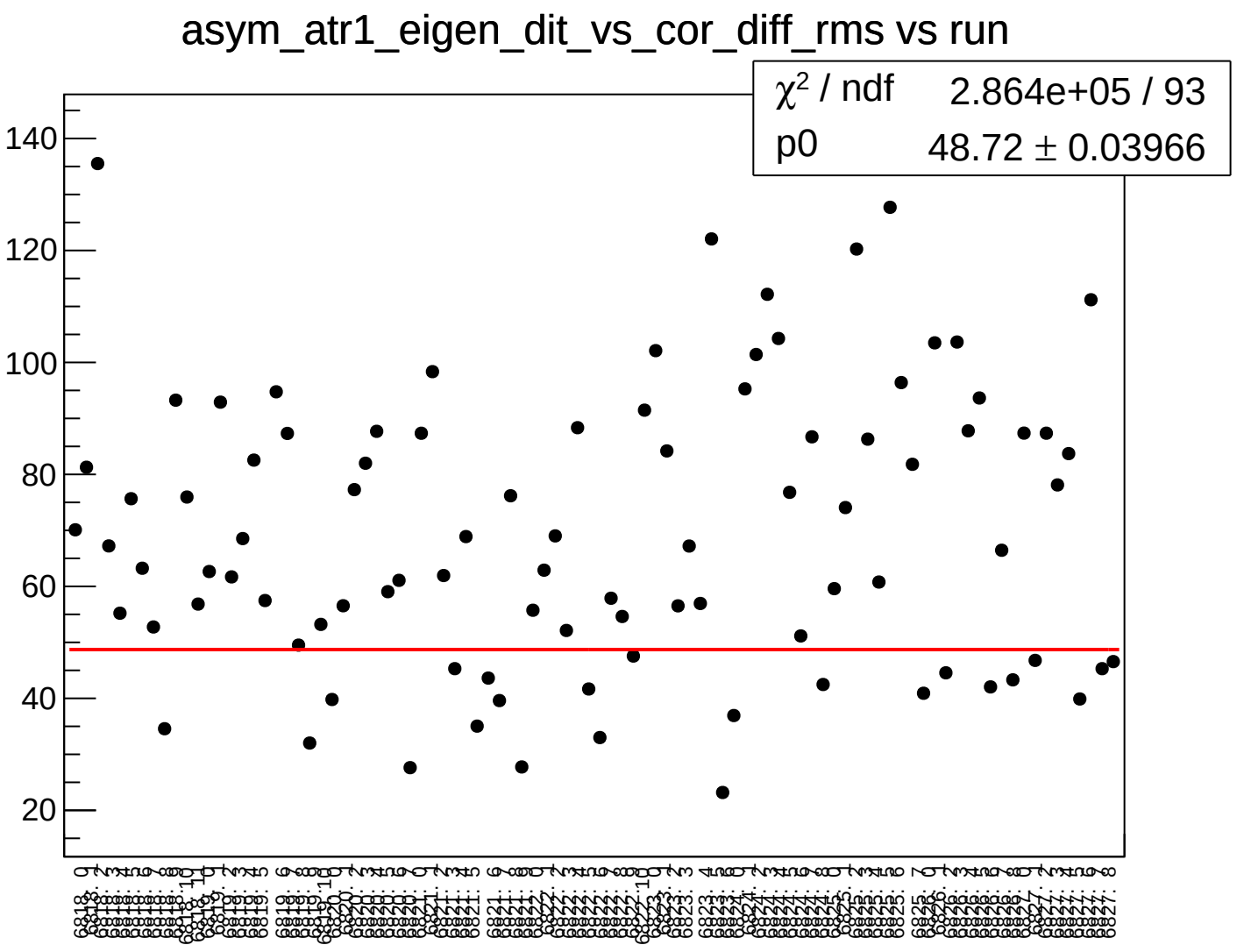

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 93
p0 48.72 ± 0.03966
140
120
100
80
60
40
20

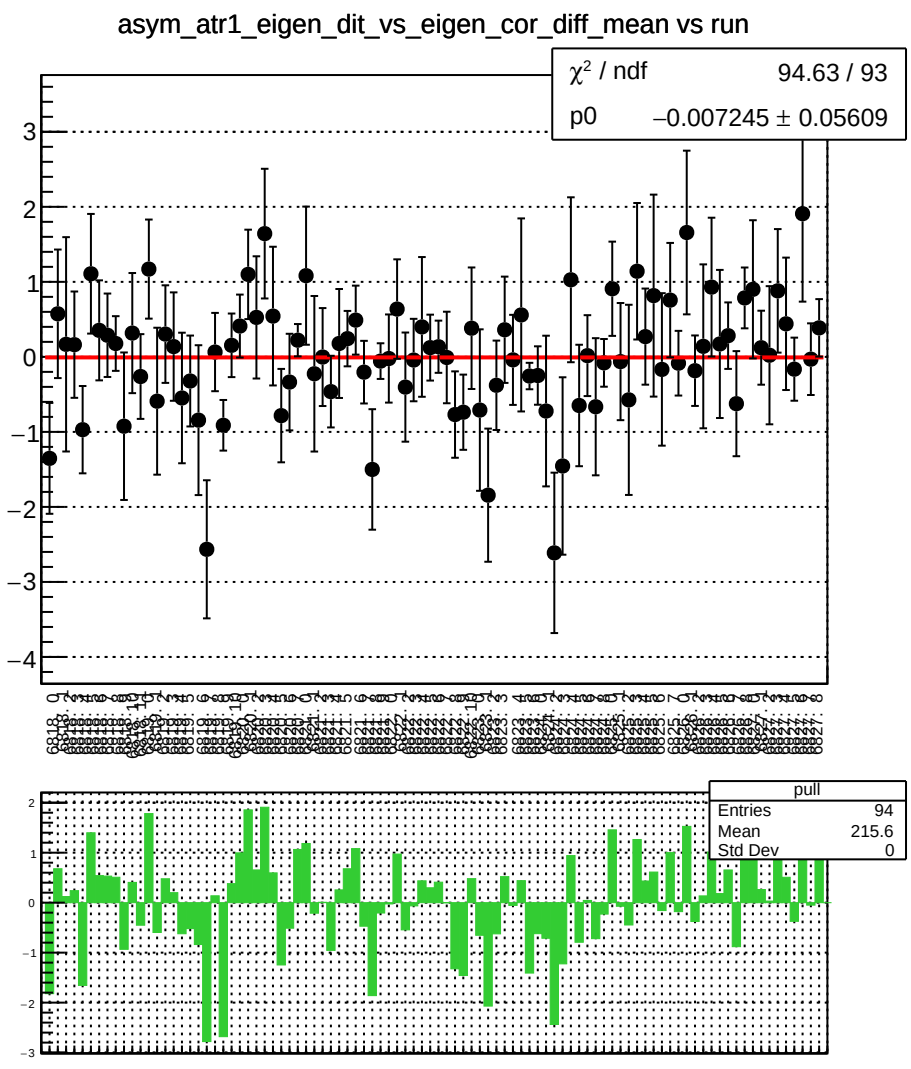

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 68.94 / 93
p0 −8.156e−07 ± 5.524e−07
pull
Entries 94
Mean −176.5
Std Dev 0

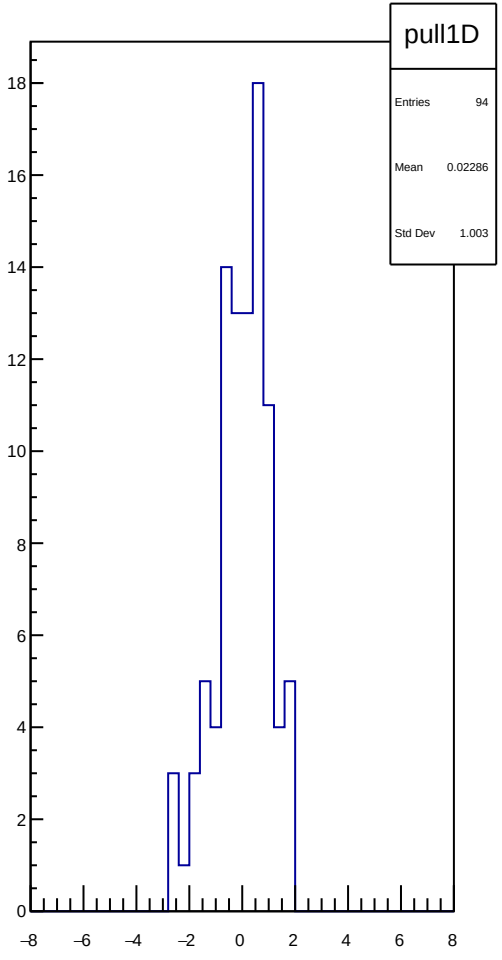

pull1D
Entries 94
Mean −0.008973
Std Dev 0.8564

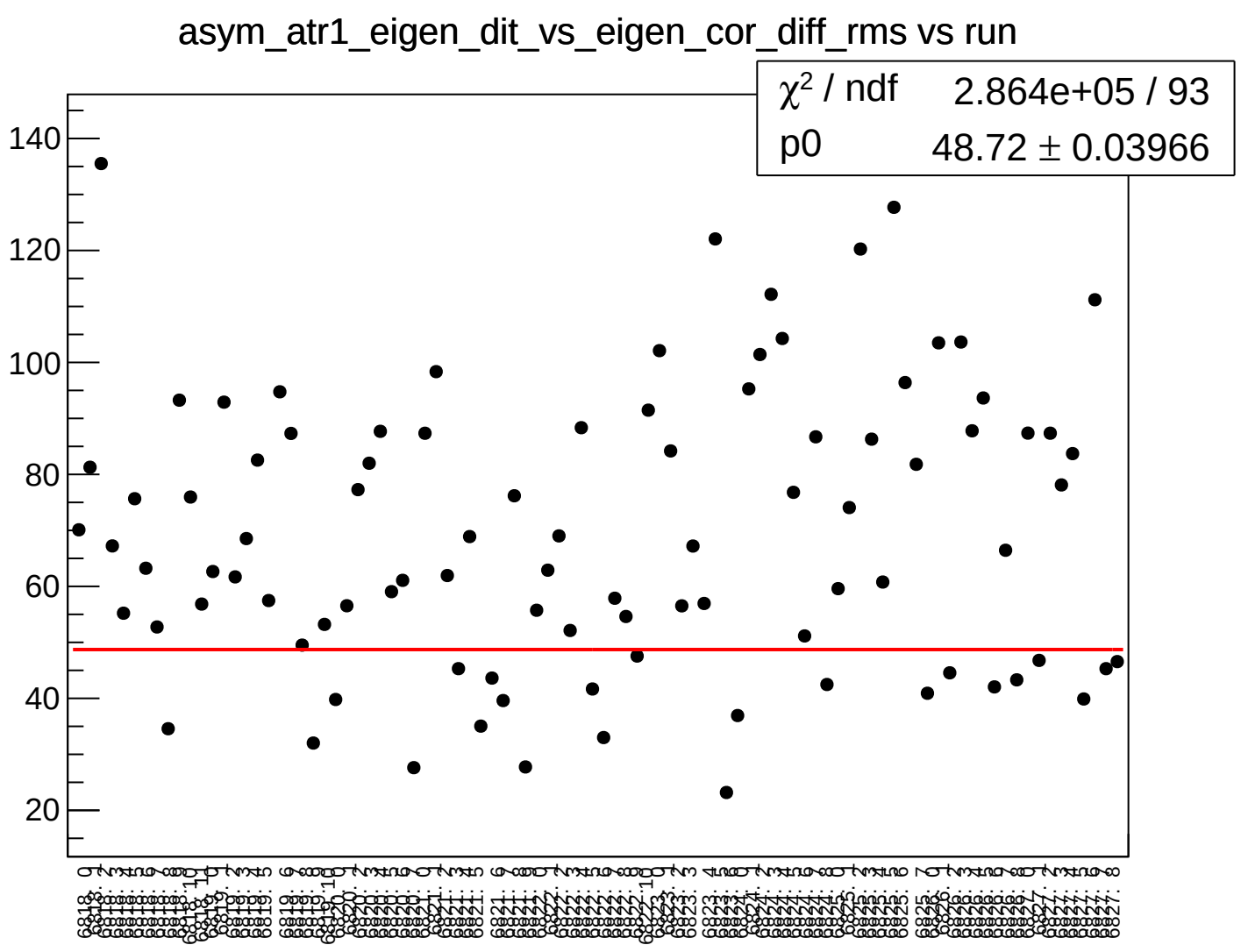

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3461 / 93
p0 0.0005228 ± 3.906e−07
0.58
0.56
0.54
0.52
0.5
0.48

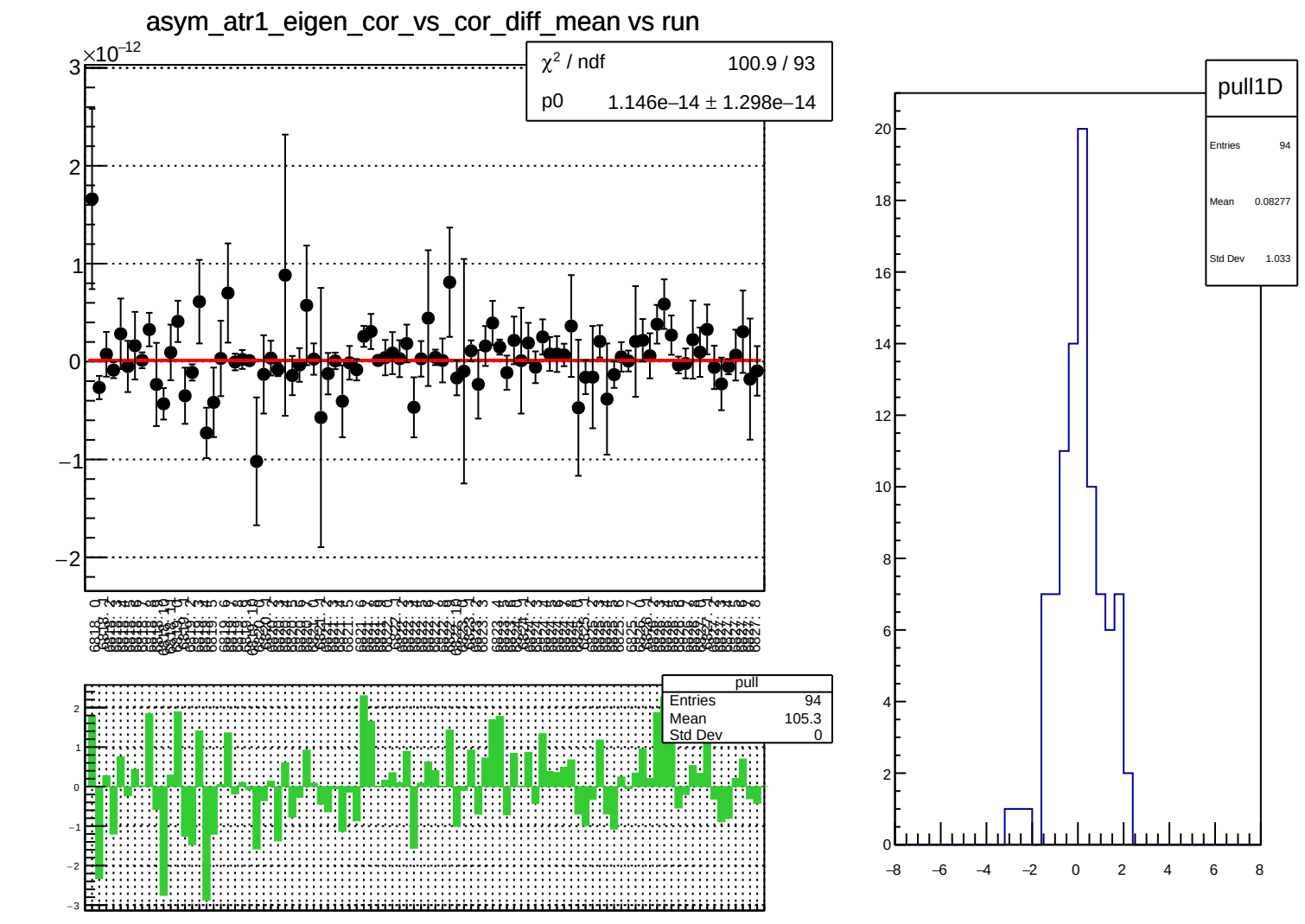

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.63 / 93
p0 −0.007245 ± 0.05609
pull
Entries 94
Mean 215.6
Std Dev 0
pull1D
Entries 94
Mean 0.02286
Std Dev 1.003

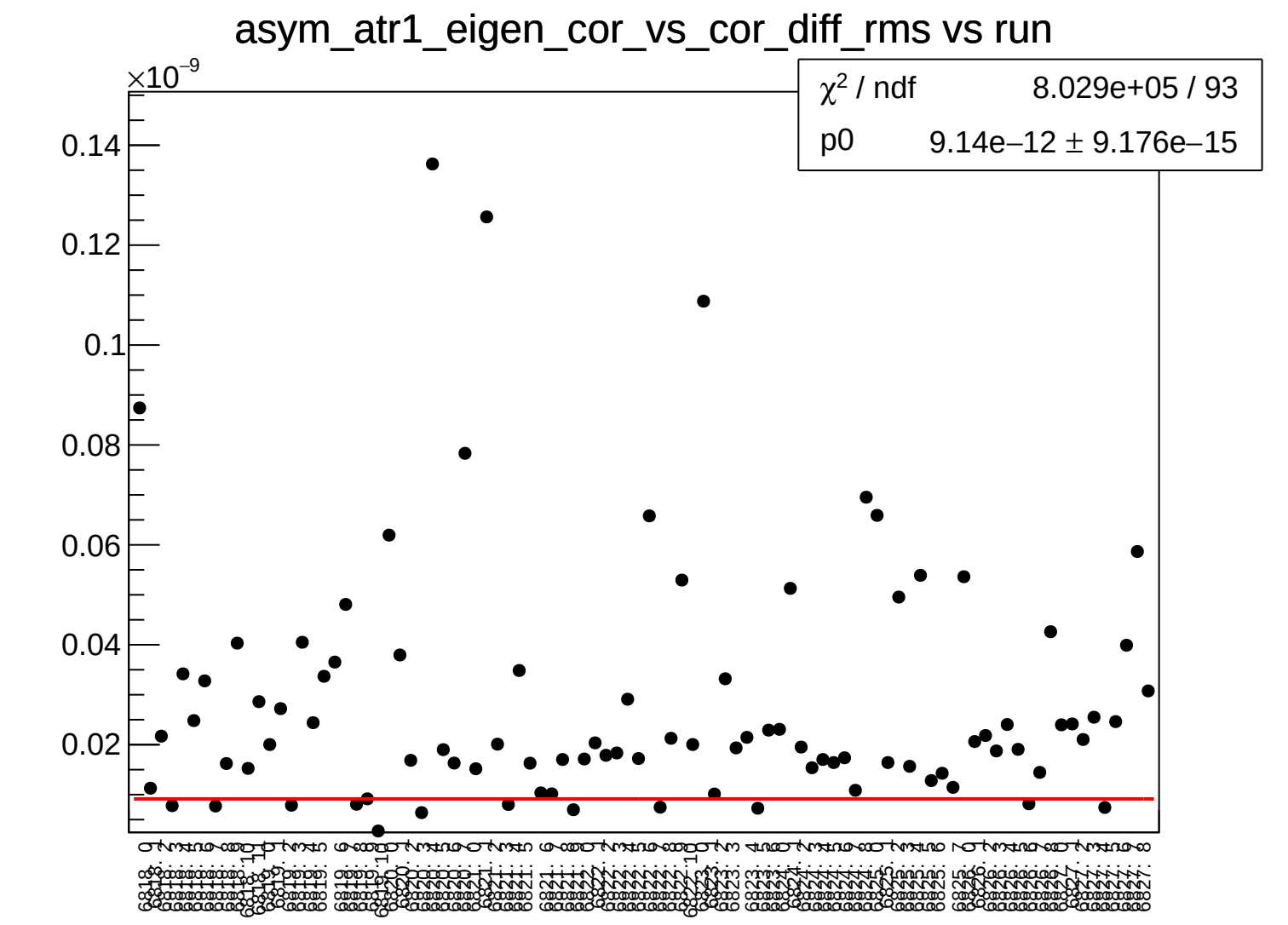

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 93
p0 48.72 ± 0.03966
140
120
100
80
60
40
20

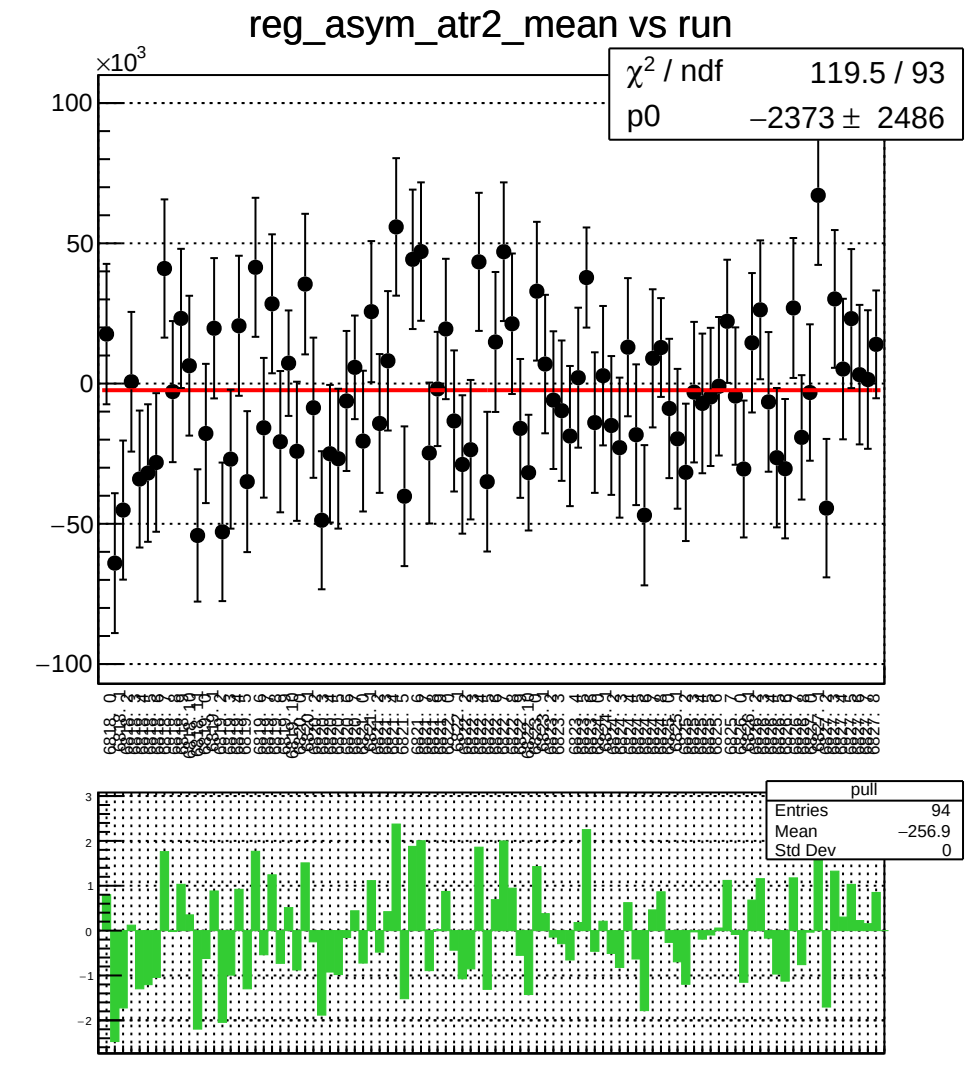

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.63 / 93
p0 −0.007245 ± 0.05609
pull
Entries 94
Mean 215.6
Std Dev 0

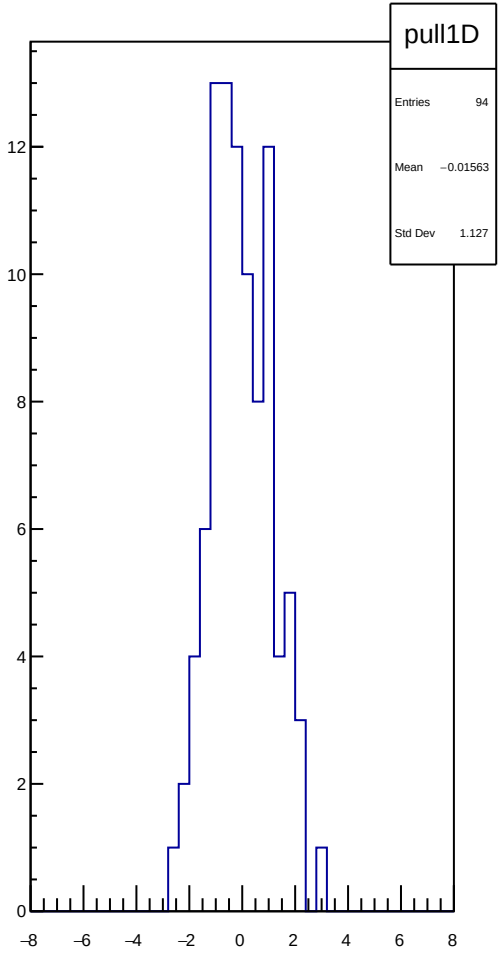

pull1D
Entries 94
Mean 0.02286
Std Dev 1.003

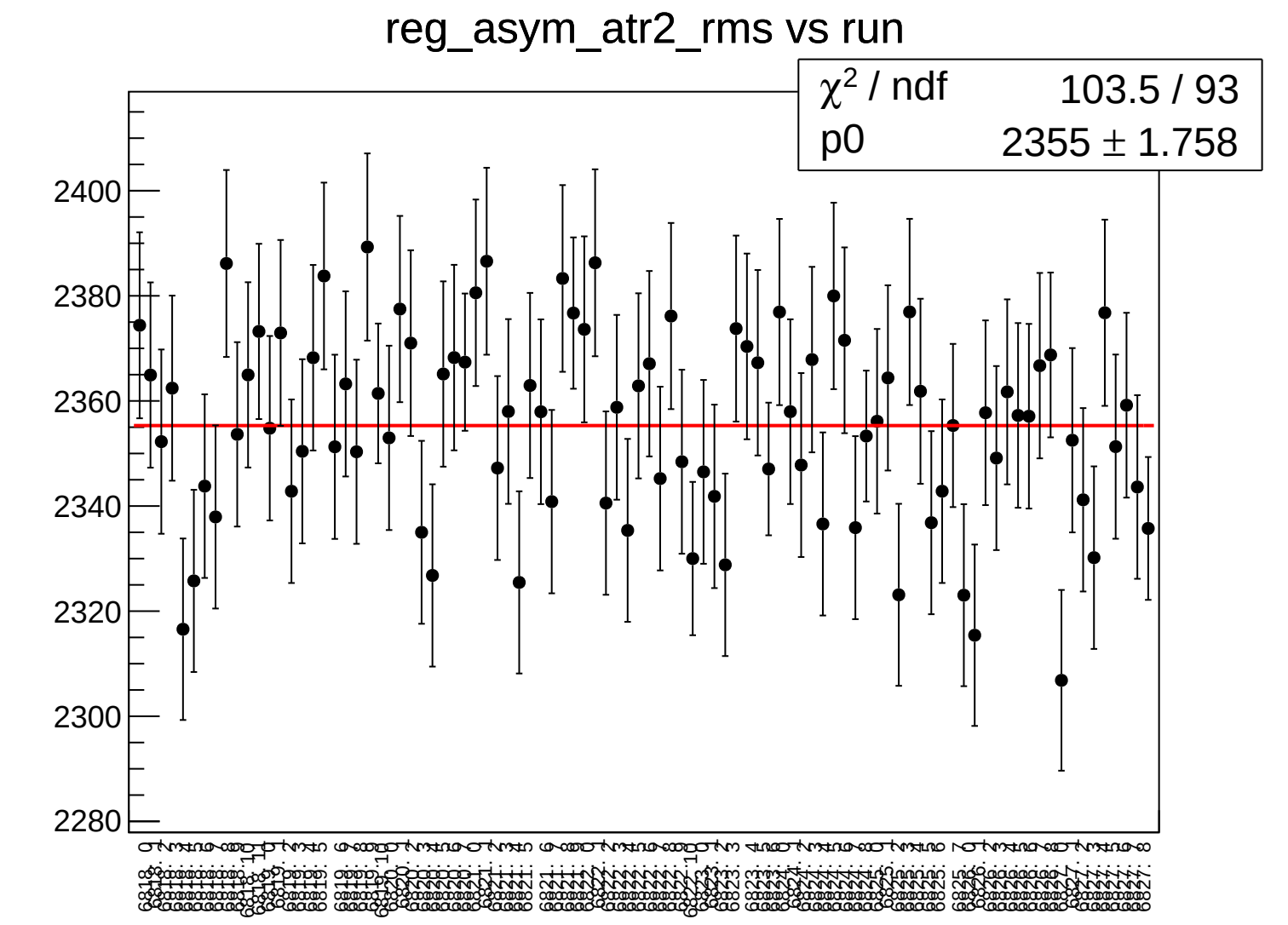

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.864e+05 / 93
p0 48.72 ± 0.03966
140
120
100
80
60
40
20

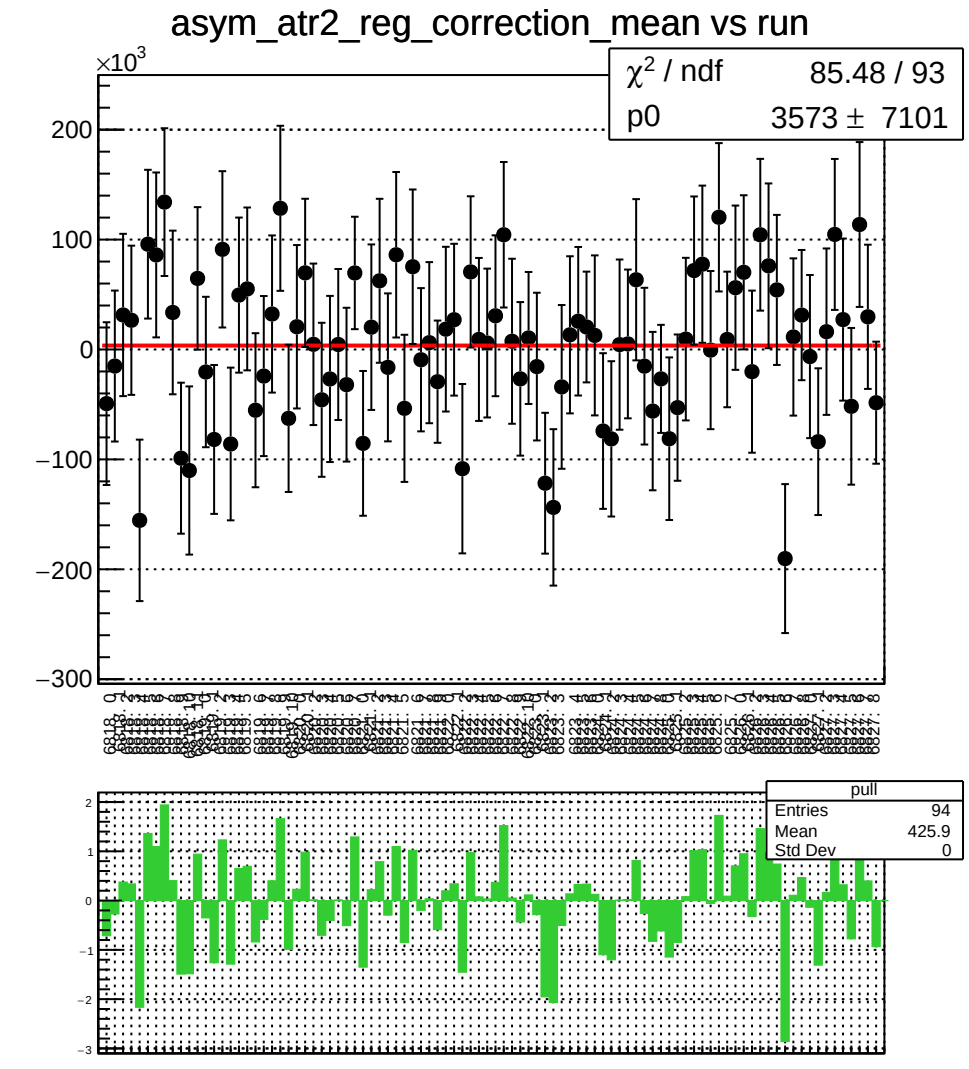

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.9 / 93
p0 1.146e−14 ± 1.298e−14
pull
Entries 94
Mean 105.3
Std Dev 0
pull1D
Entries 94
Mean 0.08277
Std Dev 1.033

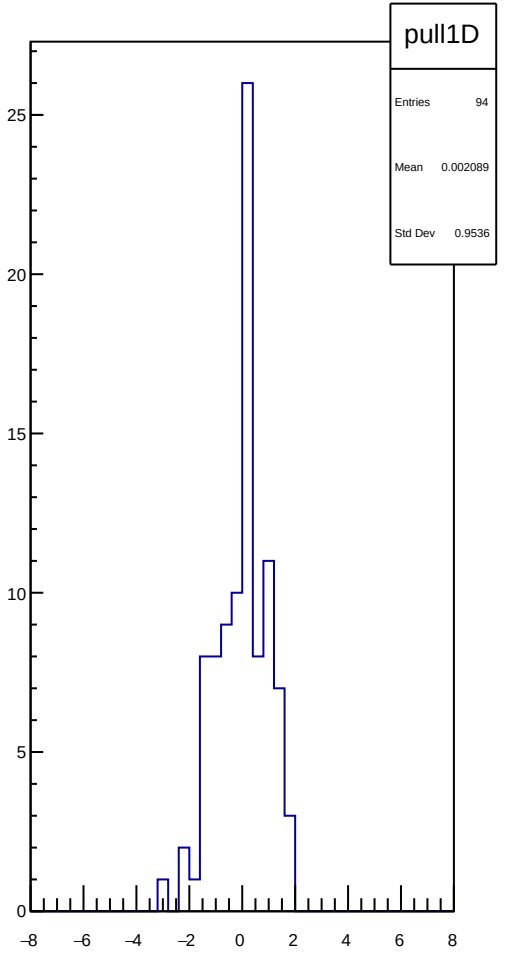

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.029e+05 / 93
p0 9.14e−12 ± 9.176e−15
0.14
0.12
0.1
0.08
0.06
0.04
0.02

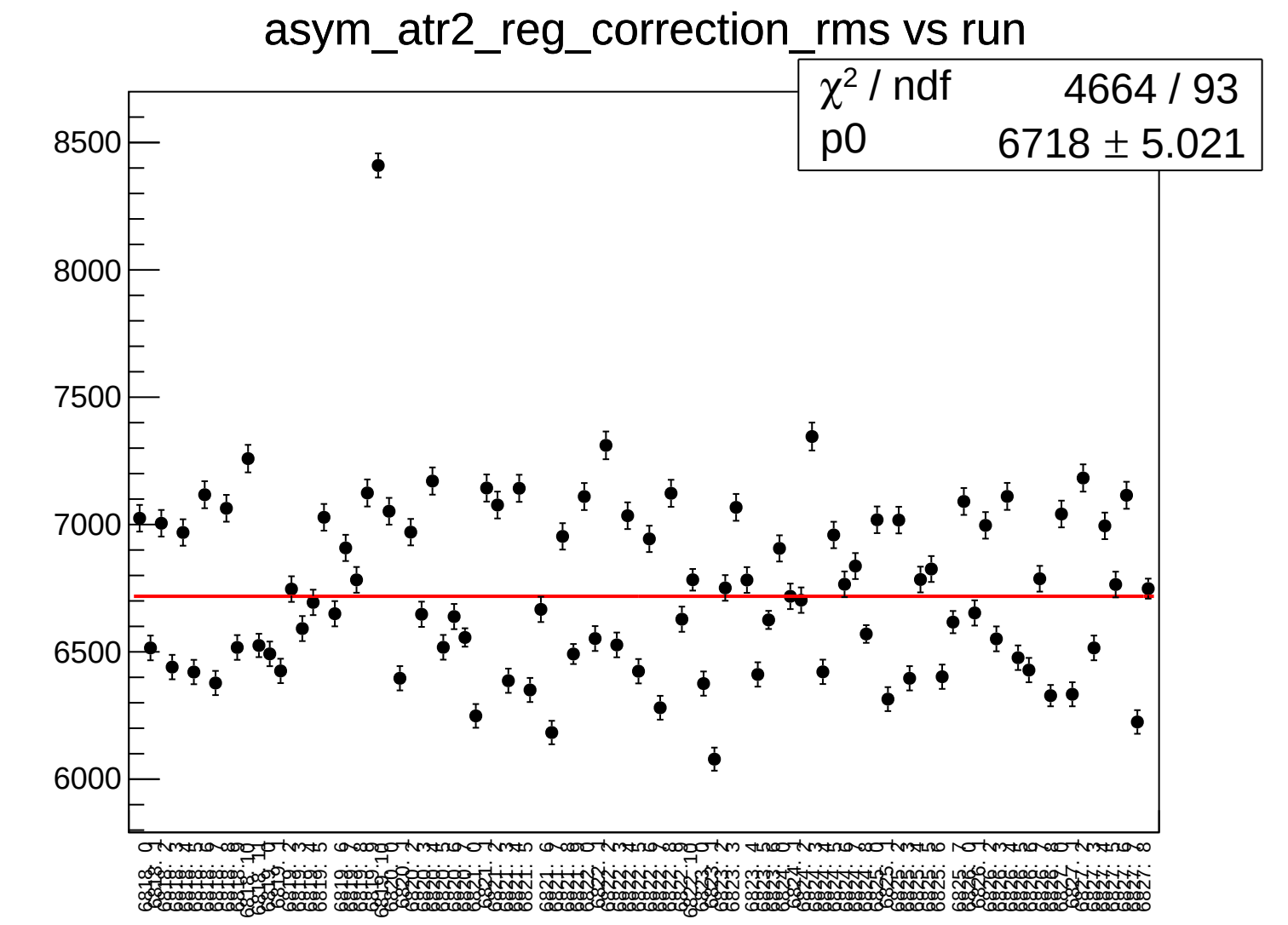

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 119.5 / 93
p0 −2373 ± 2486
100
50
0
−50
−100
pull
Entries 94
Mean −256.9
Std Dev 0
3
2
1
0
−1
−2

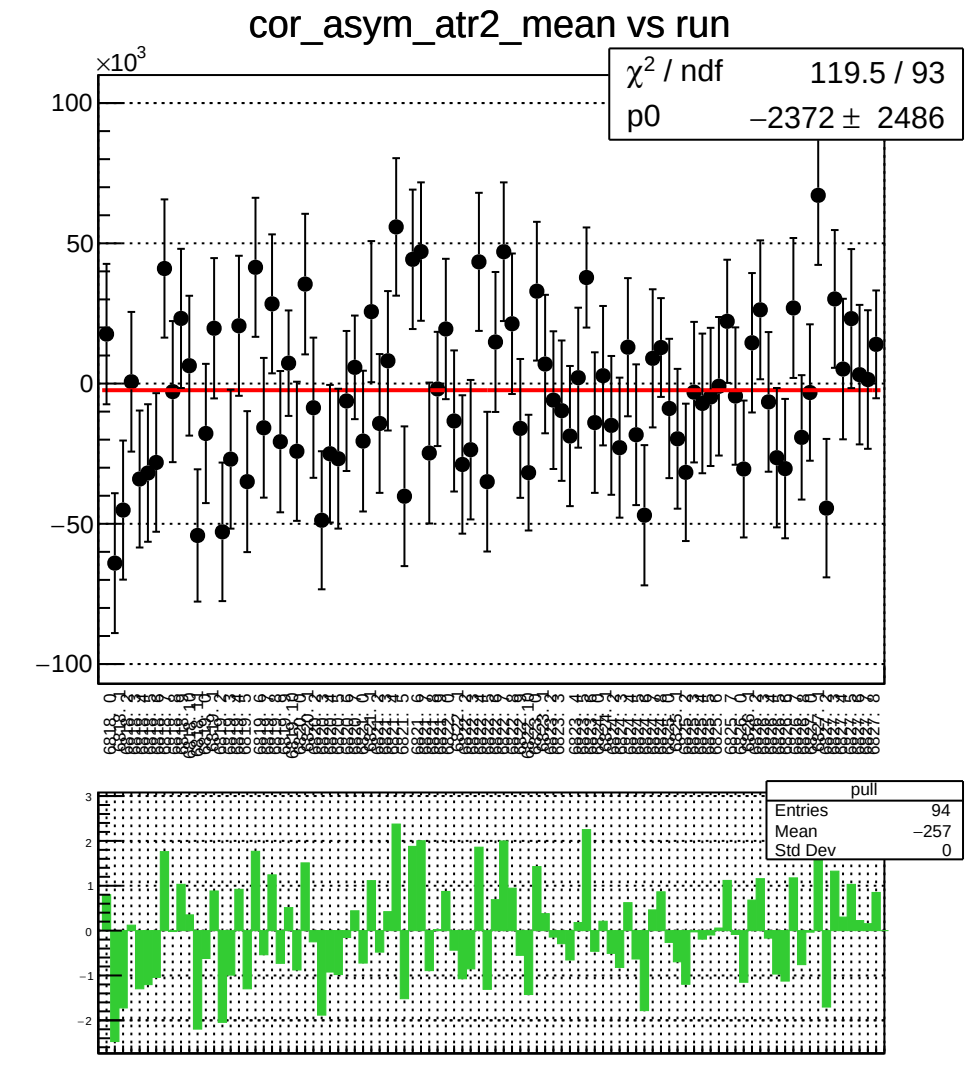

pull1D
Entries 94
Mean −0.01563
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

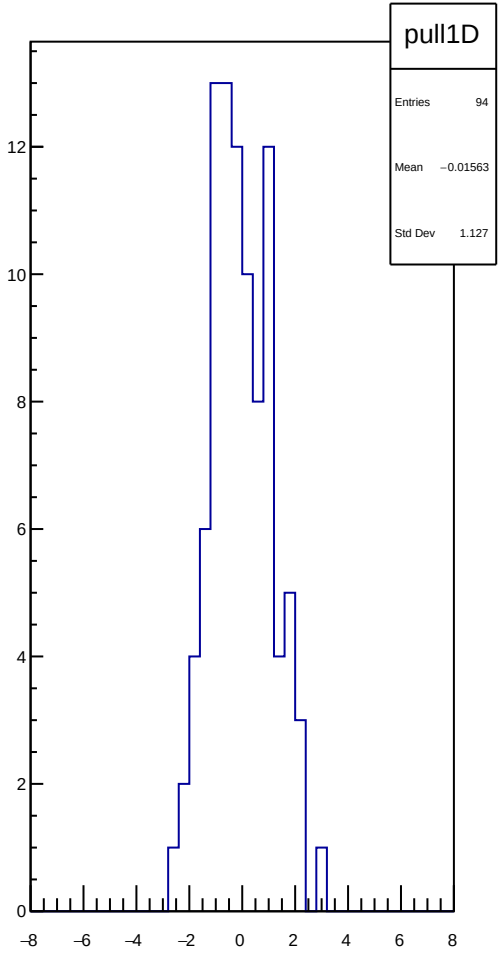

reg_asym_atr2_rms vs run
χ^2 / ndf 103.5 / 93
p0 2355 ± 1.758
2400
2380
2360
2340
2320
2300
2280


asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 85.48 / 93
p0 3573 ± 7101
200
100
0
−100
−200
−300
pull
Entries 94
Mean 425.9
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 94
Mean 0.002089
Std Dev 0.9536
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_reg_correction_rms vs run
χ² / ndf 4664 / 93
p0 6718 ± 5.021
8500
8000
7500
7000
6500
6000


cor_asym_atr2_mean vs run
×10^3
χ² / ndf 119.5 / 93
p0 −2372 ± 2486
100
50
0
−50
−100
pull
Entries 94
Mean −257
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.01563
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
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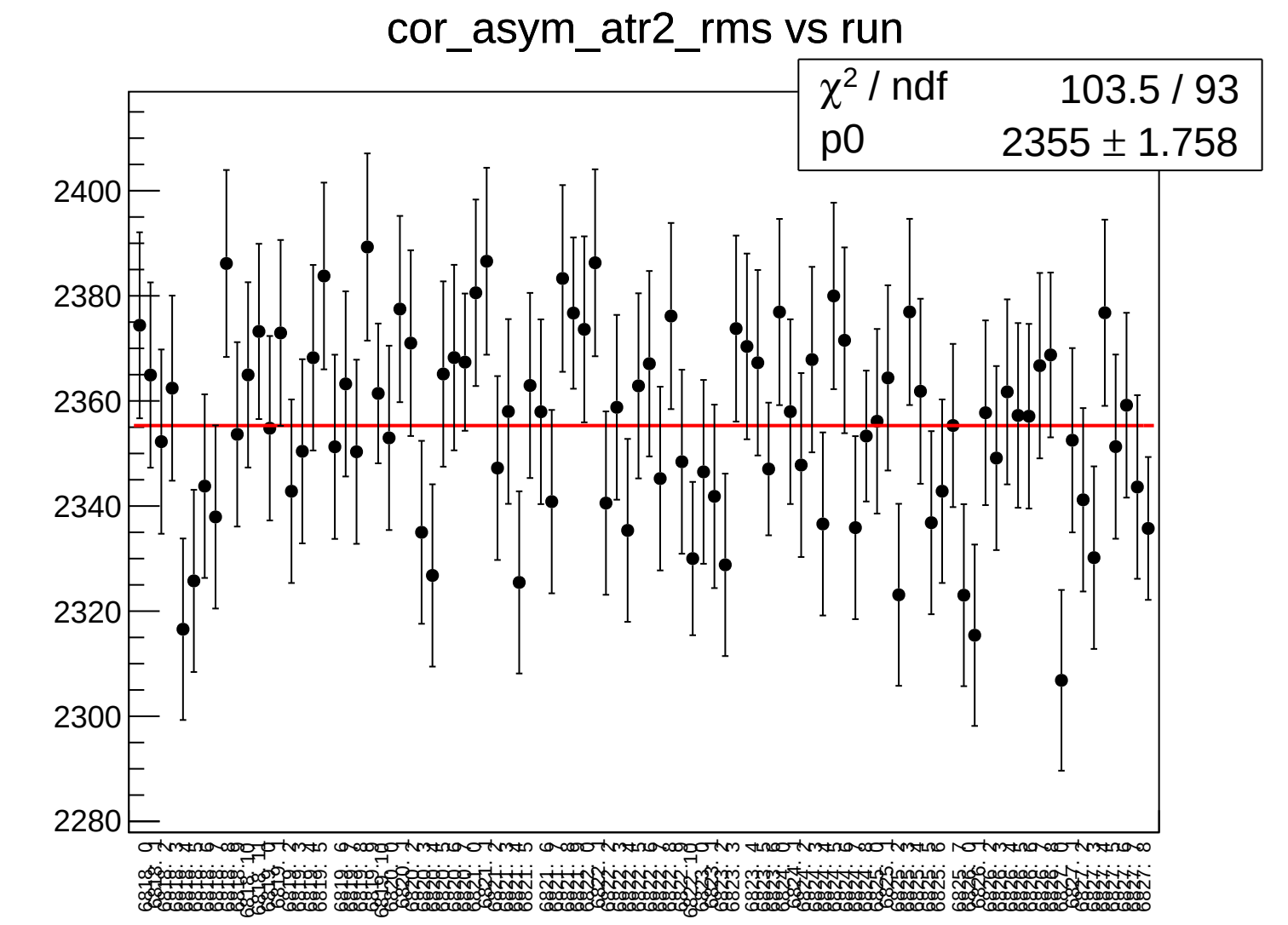
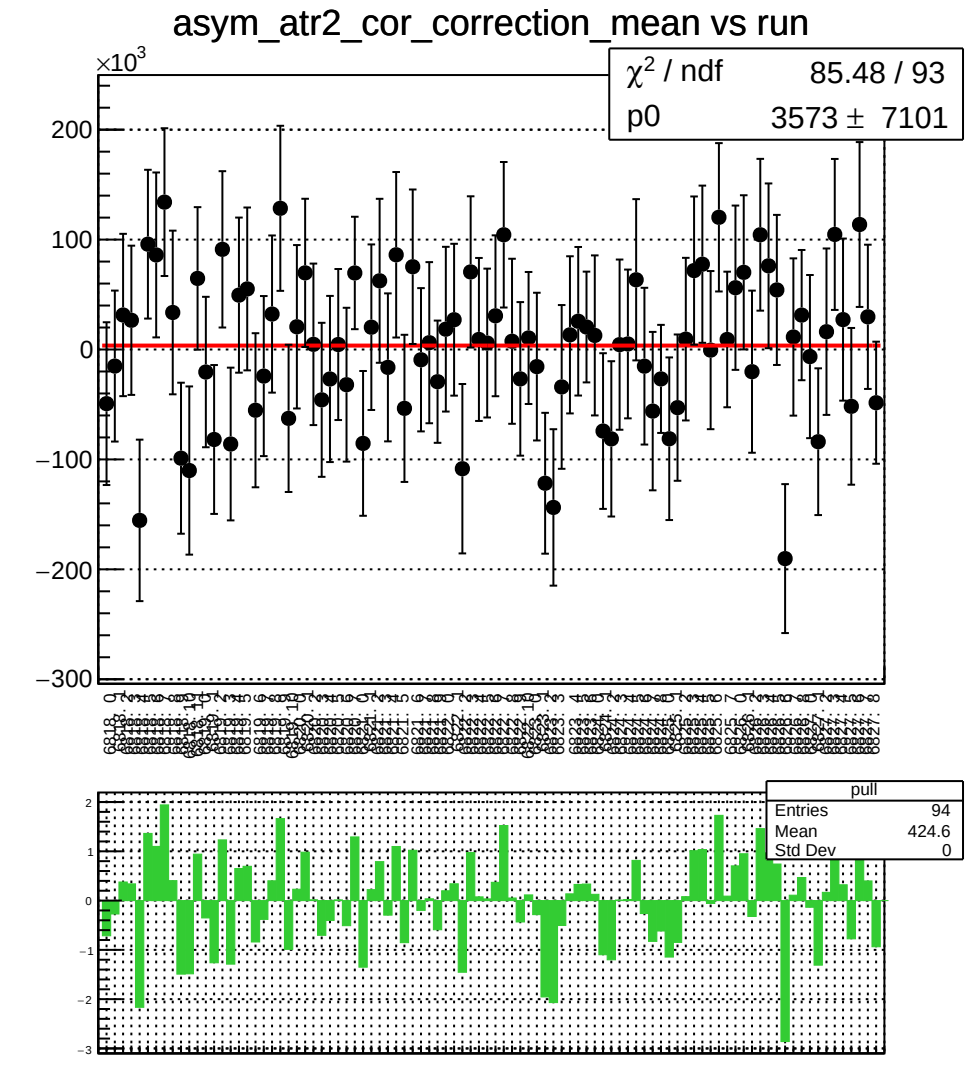
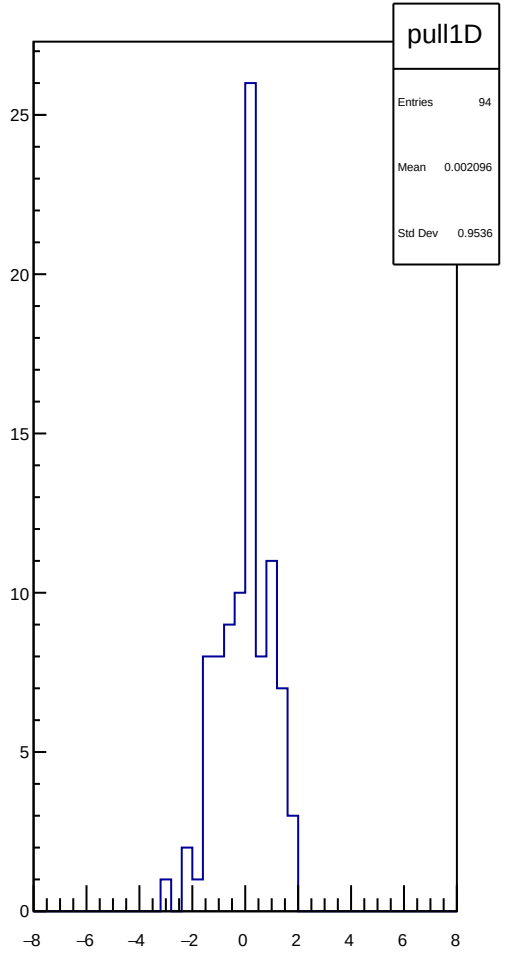
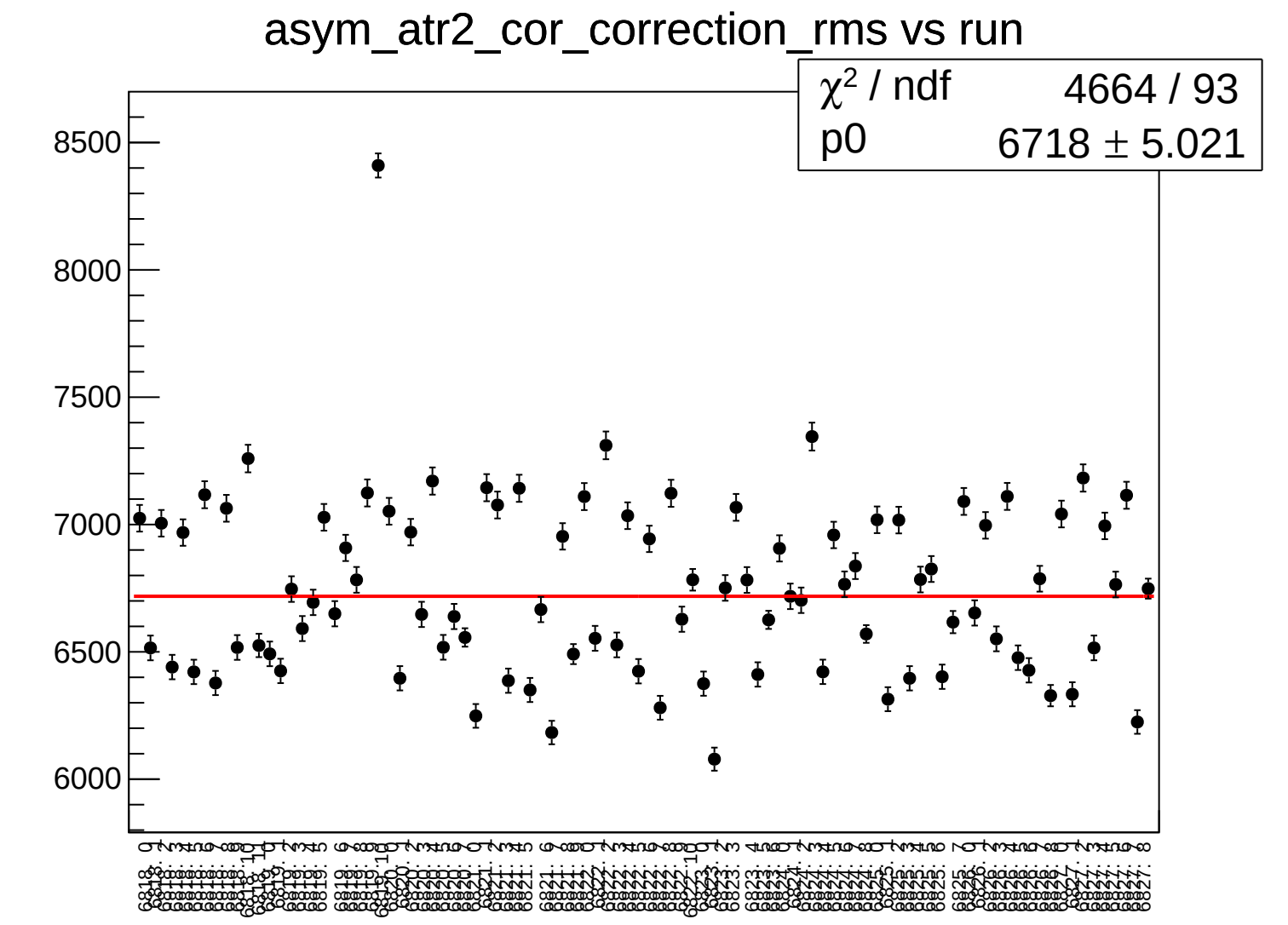
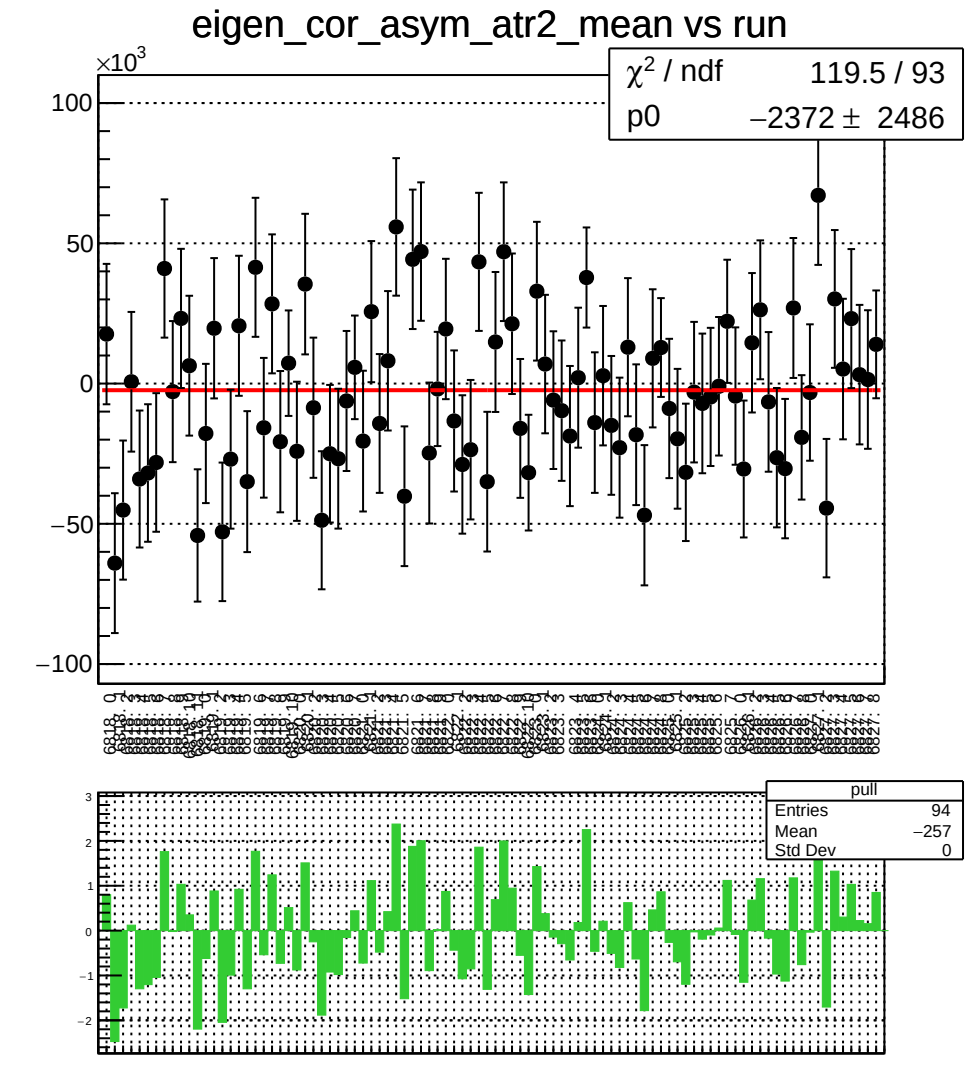
2
4
6
8

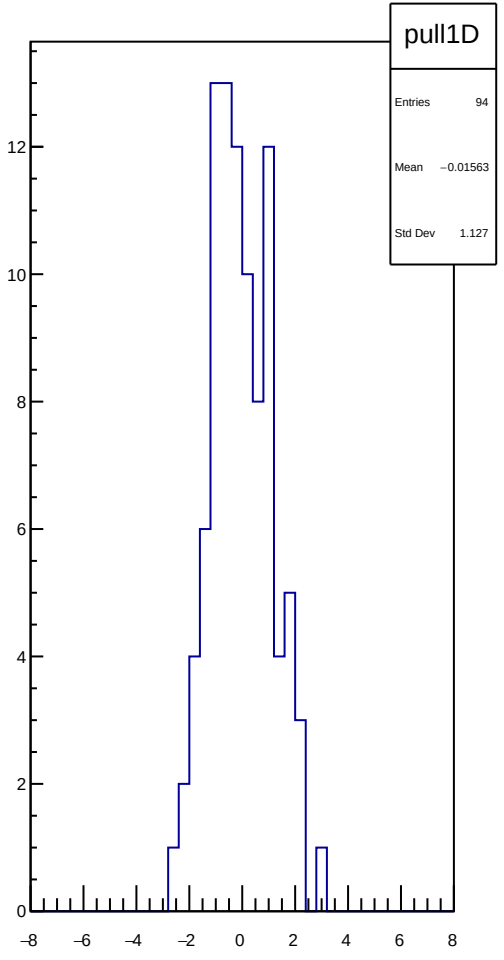

cor_asym_atr2_rms vs run
χ^2 / ndf 103.5 / 93
p0 2355 ± 1.758
2400
2380
2360
2340
2320
2300
2280

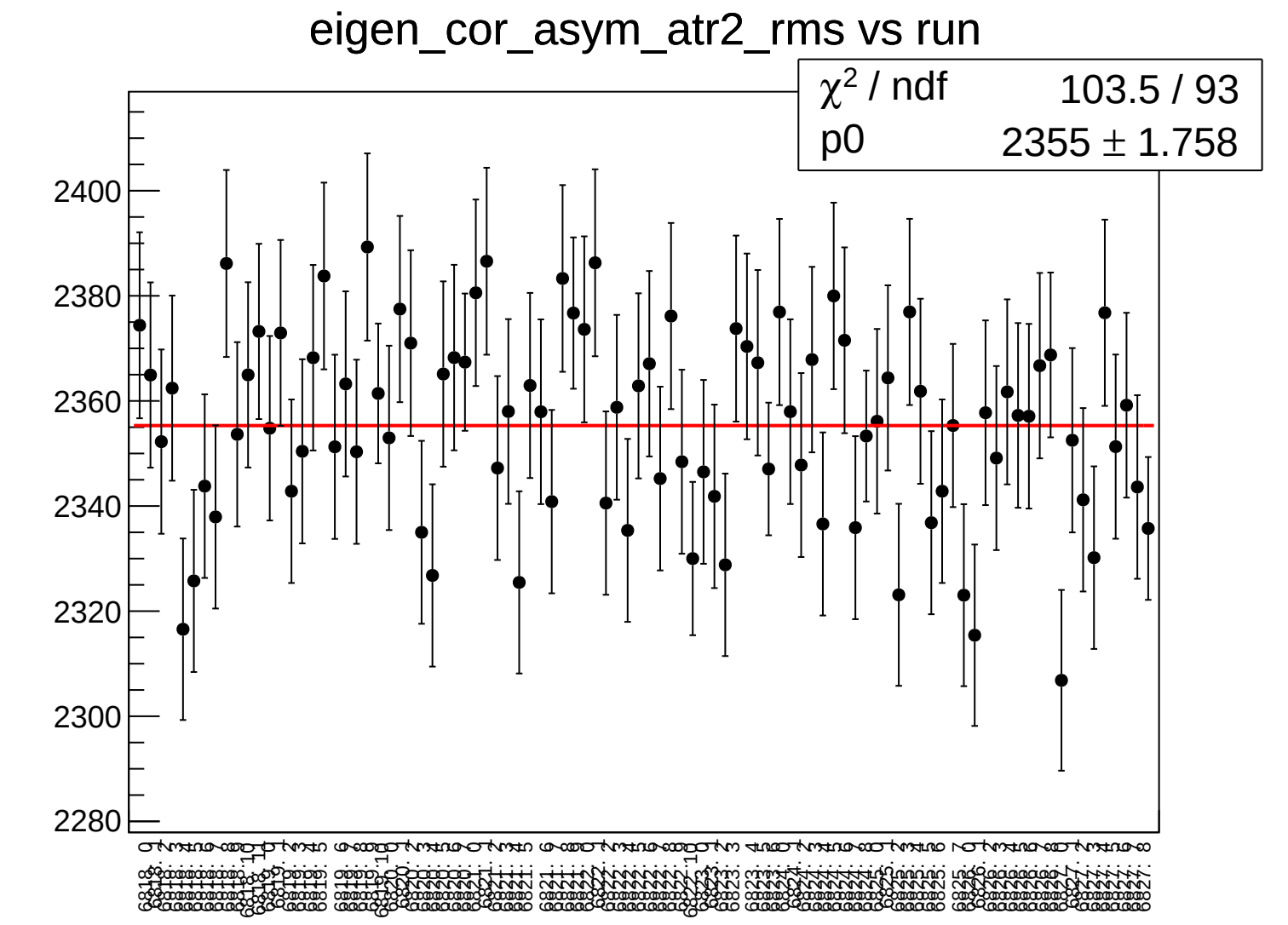

asym_atr2_cor_correction_mean vs run
χ² / ndf 85.48 / 93
p0 3573 ± 7101
×10³
pull
Entries 94
Mean 424.6
Std Dev 0

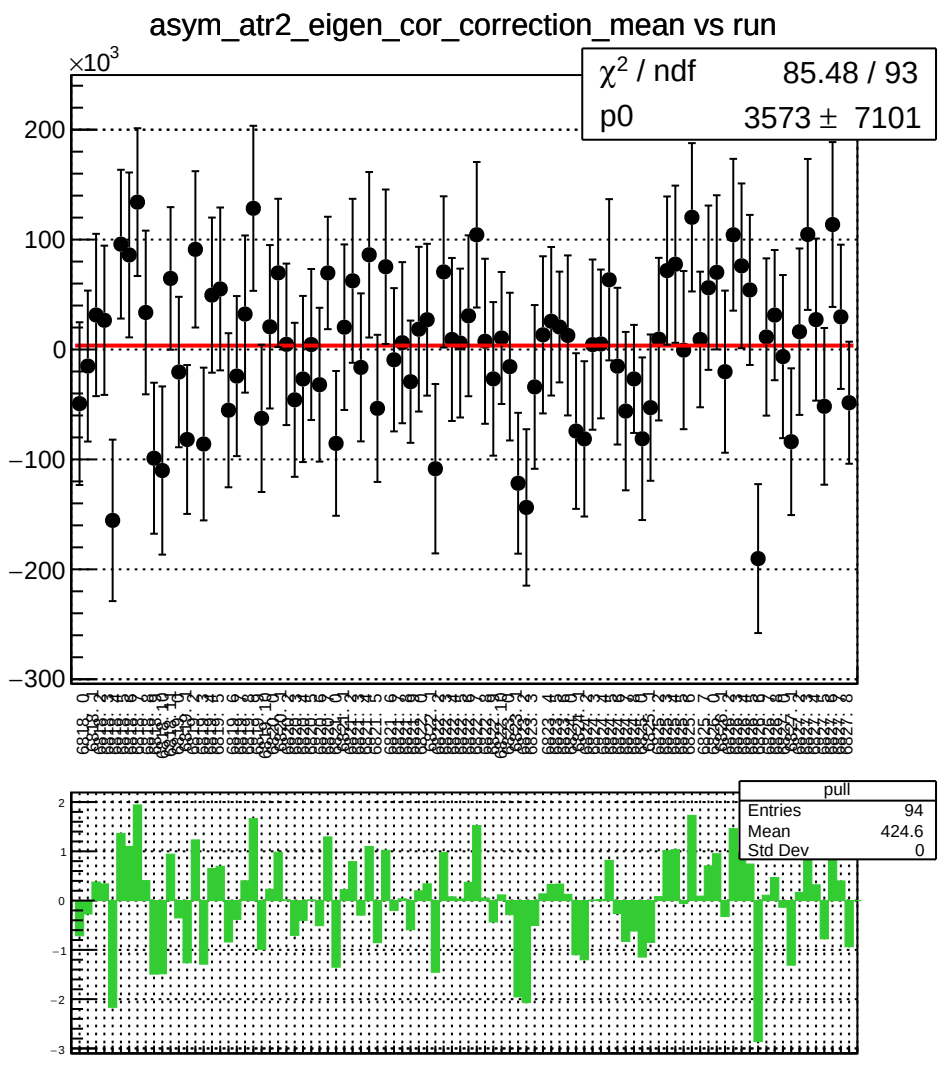

pull1D
Entries 94
Mean 0.002096
Std Dev 0.9536

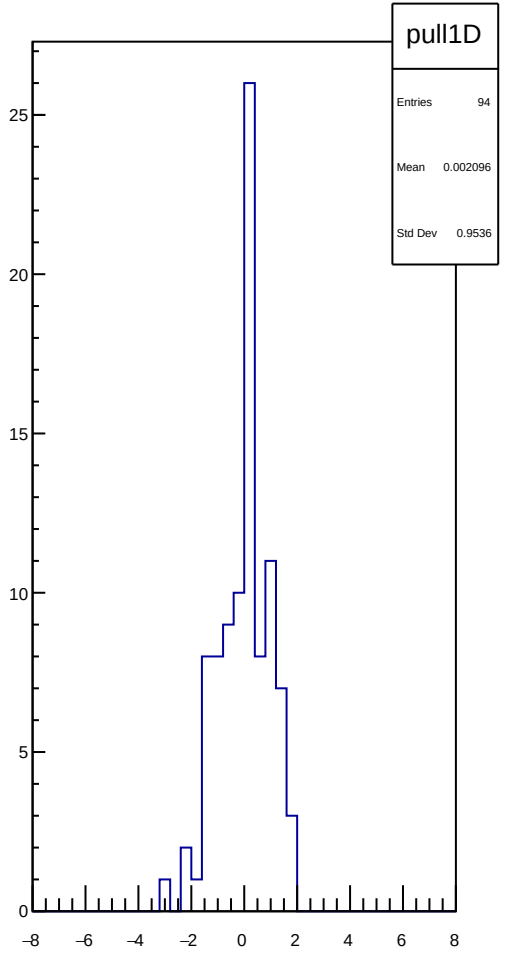

asym_atr2_cor_correction_rms vs run
χ² / ndf 4664 / 93
p0 6718 ± 5.021
8500
8000
7500
7000
6500
6000

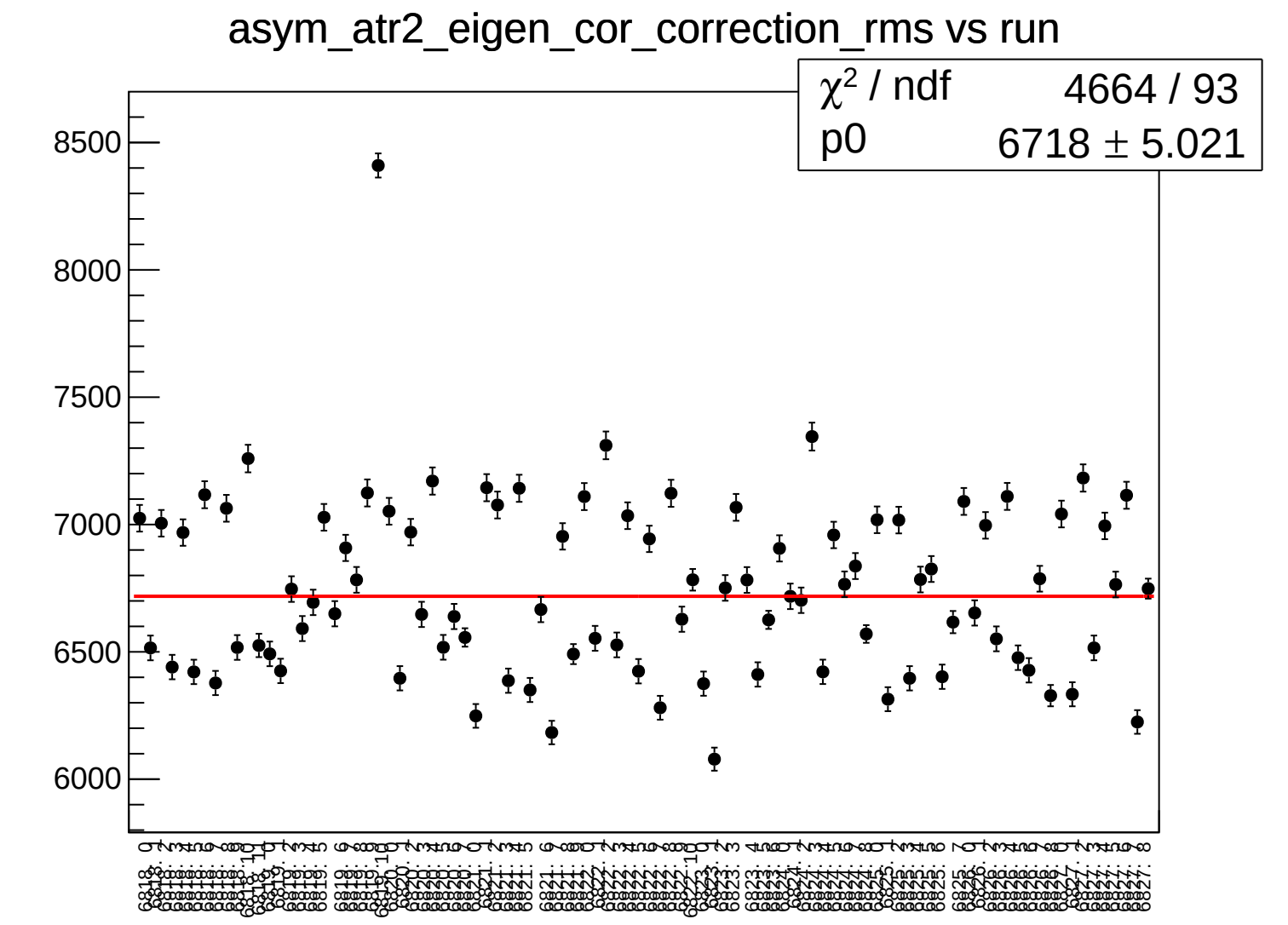

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 119.5 / 93
p0 −2372 ± 2486
100
50
0
−50
−100
pull
Entries 94
Mean −257
Std Dev 0
3
2
1
0
−1
−2

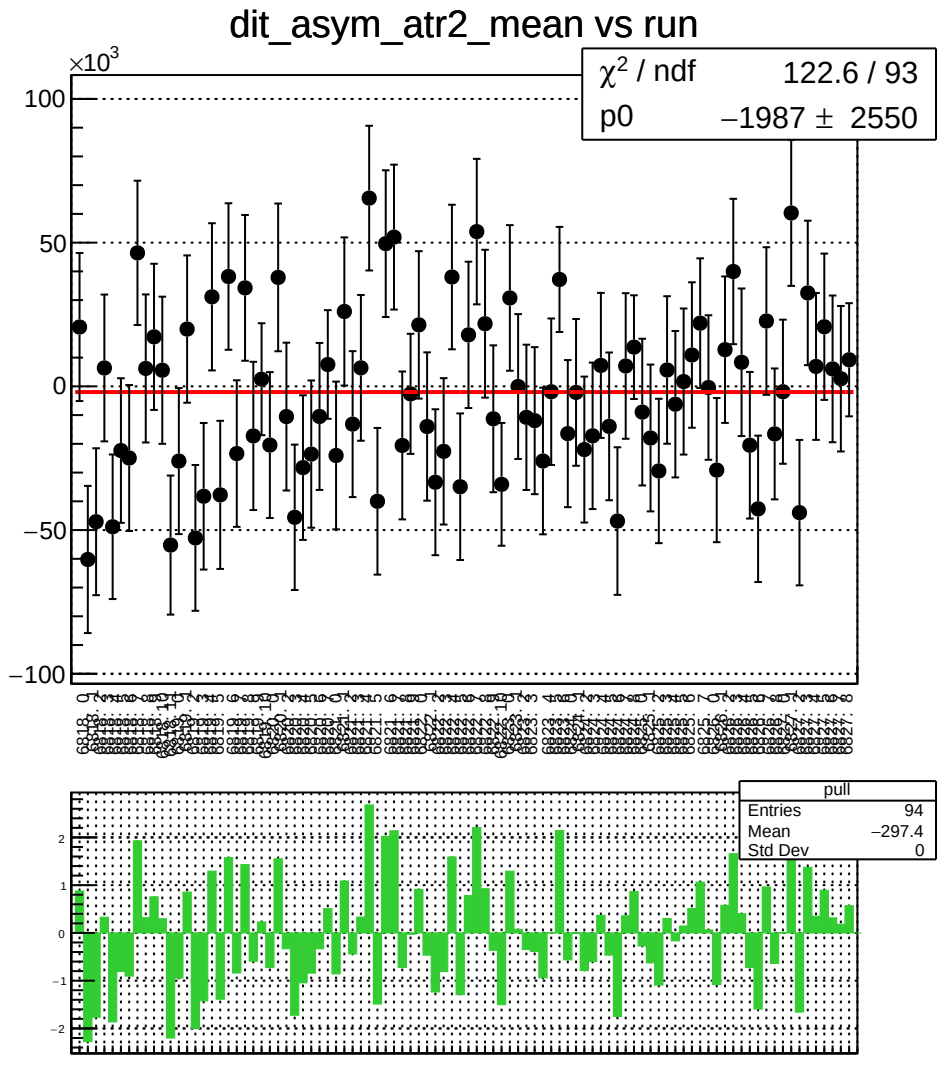

pull1D
Entries 94
Mean −0.01563
Std Dev 1.127
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

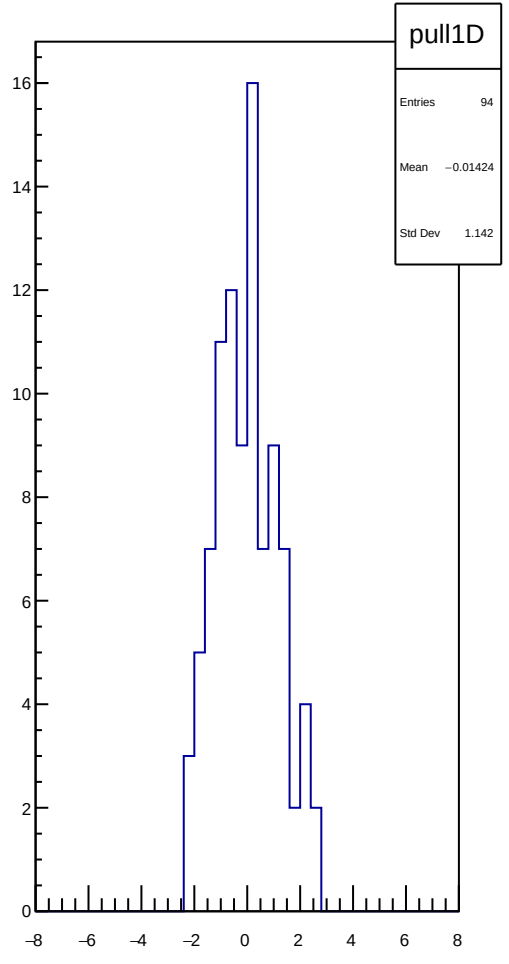

eigen_cor_asym_atr2_rms vs run
χ^2 / ndf 103.5 / 93
p0 2355 ± 1.758
2400
2380
2360
2340
2320
2300
2280

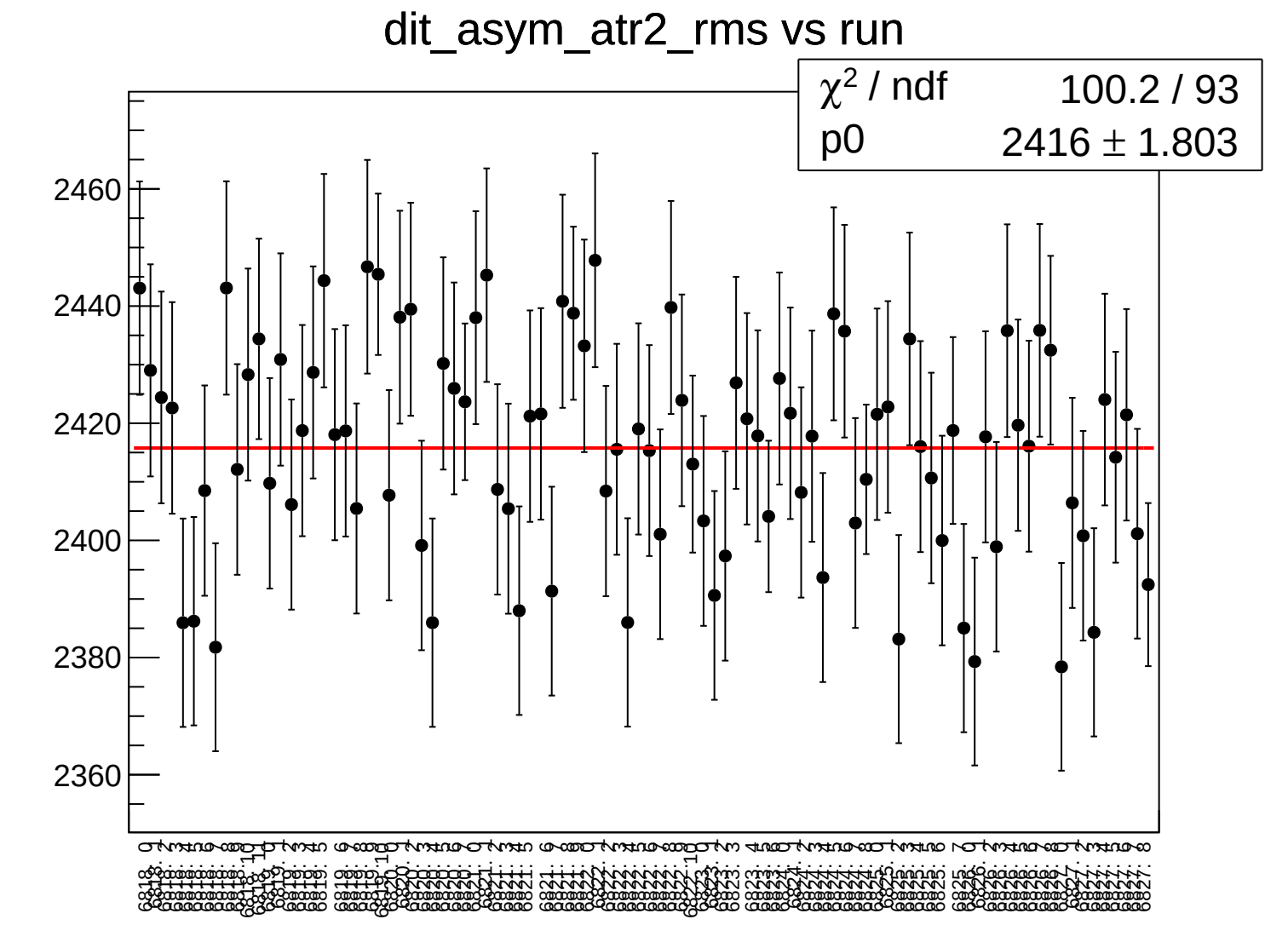

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 85.48 / 93
p0 3573 ± 7101
200
100
0
−100
−200
−300
pull
Entries 94
Mean 424.6
Std Dev 0
2
1
0
−1
−2
−3

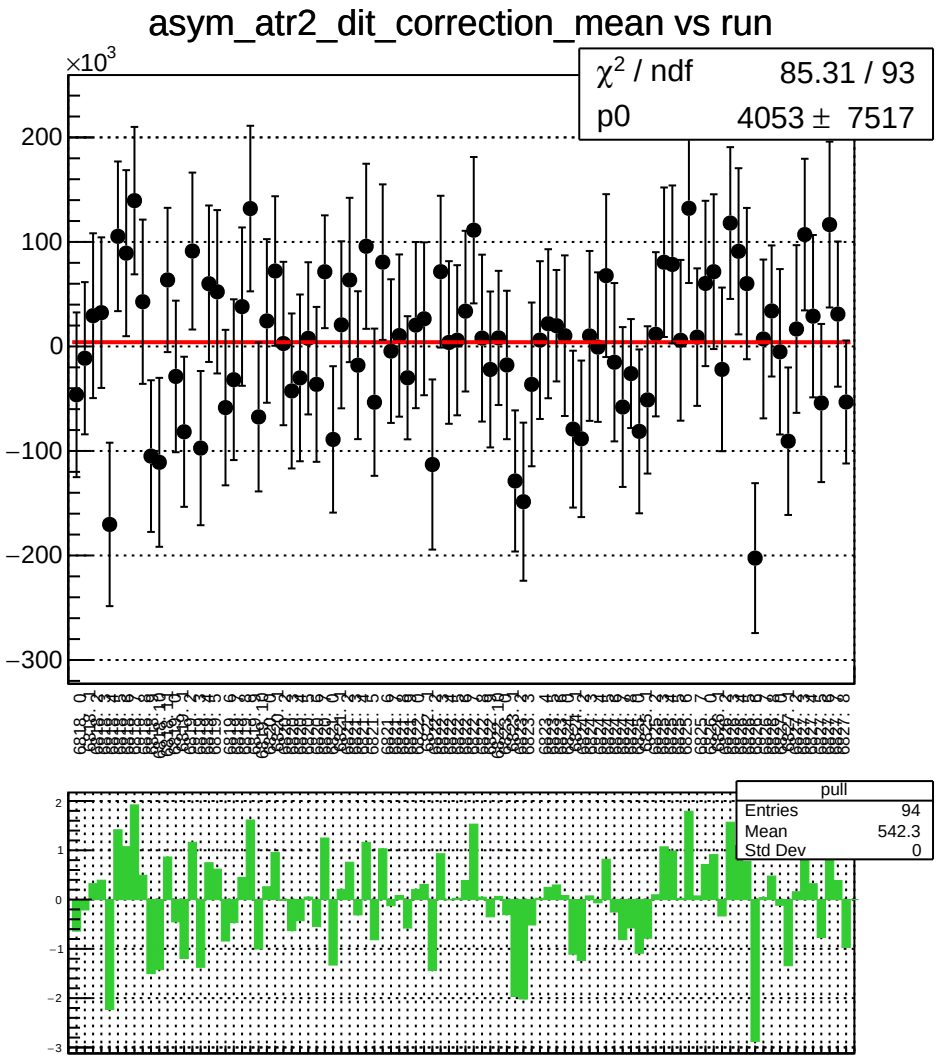

pull1D
Entries 94
Mean 0.002096
Std Dev 0.9536
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

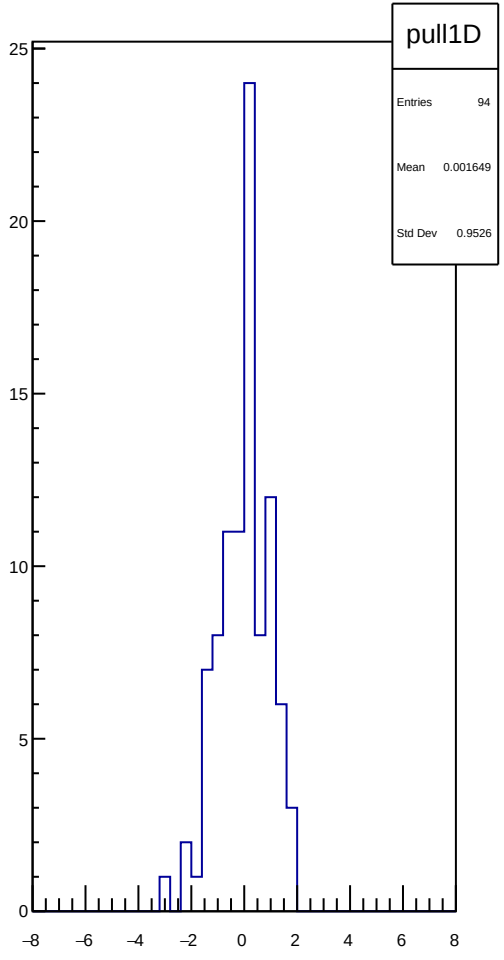

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 4664 / 93
p0 6718 ± 5.021
8500
8000
7500
7000
6500
6000

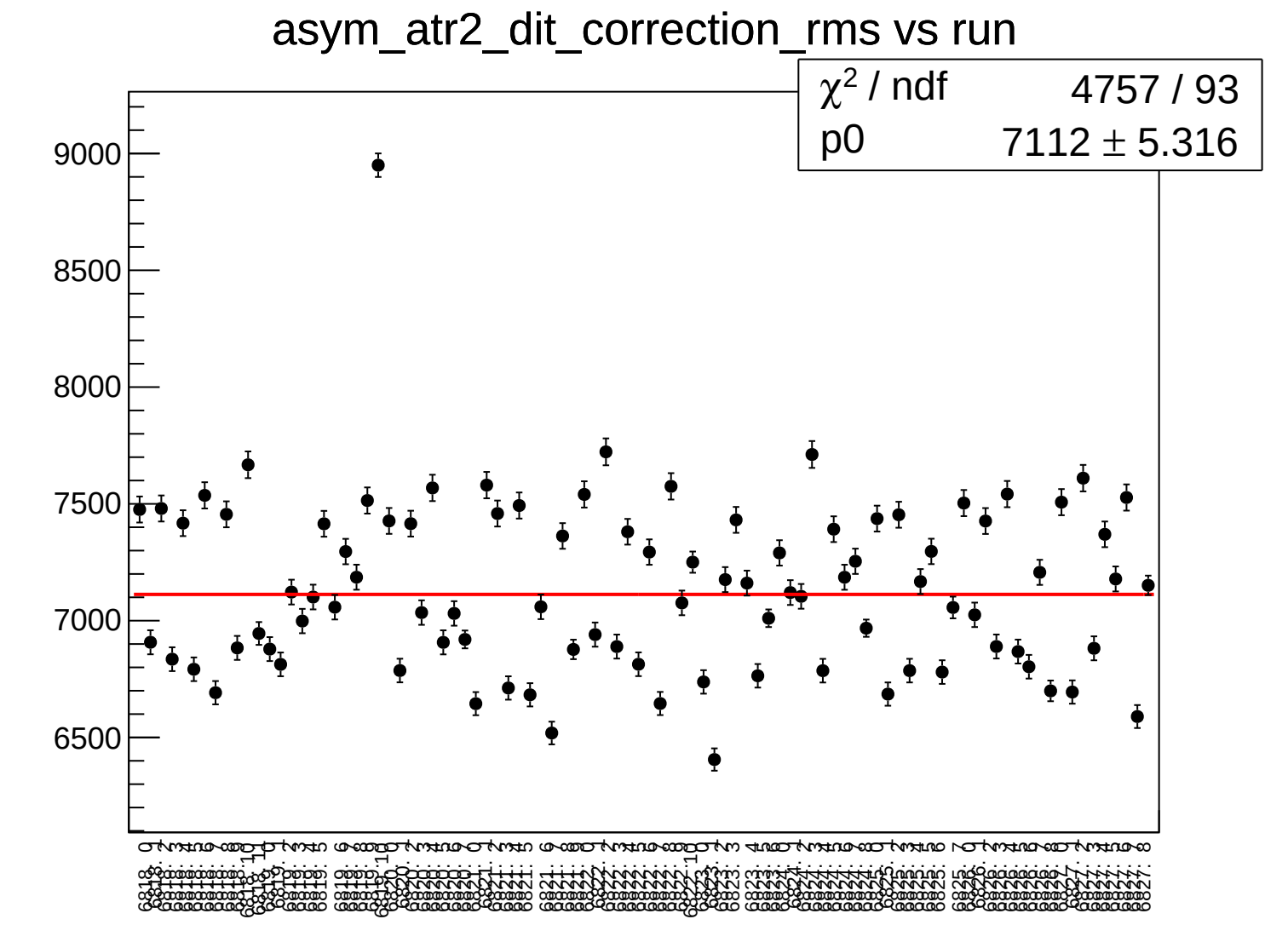

dit_asym_atr2_mean vs run
×10^3
χ² / ndf 122.6 / 93
p0 −1987 ± 2550
100
50
0
−50
−100
pull
Entries 94
Mean −297.4
Std Dev 0
2
1
0
−1
−2

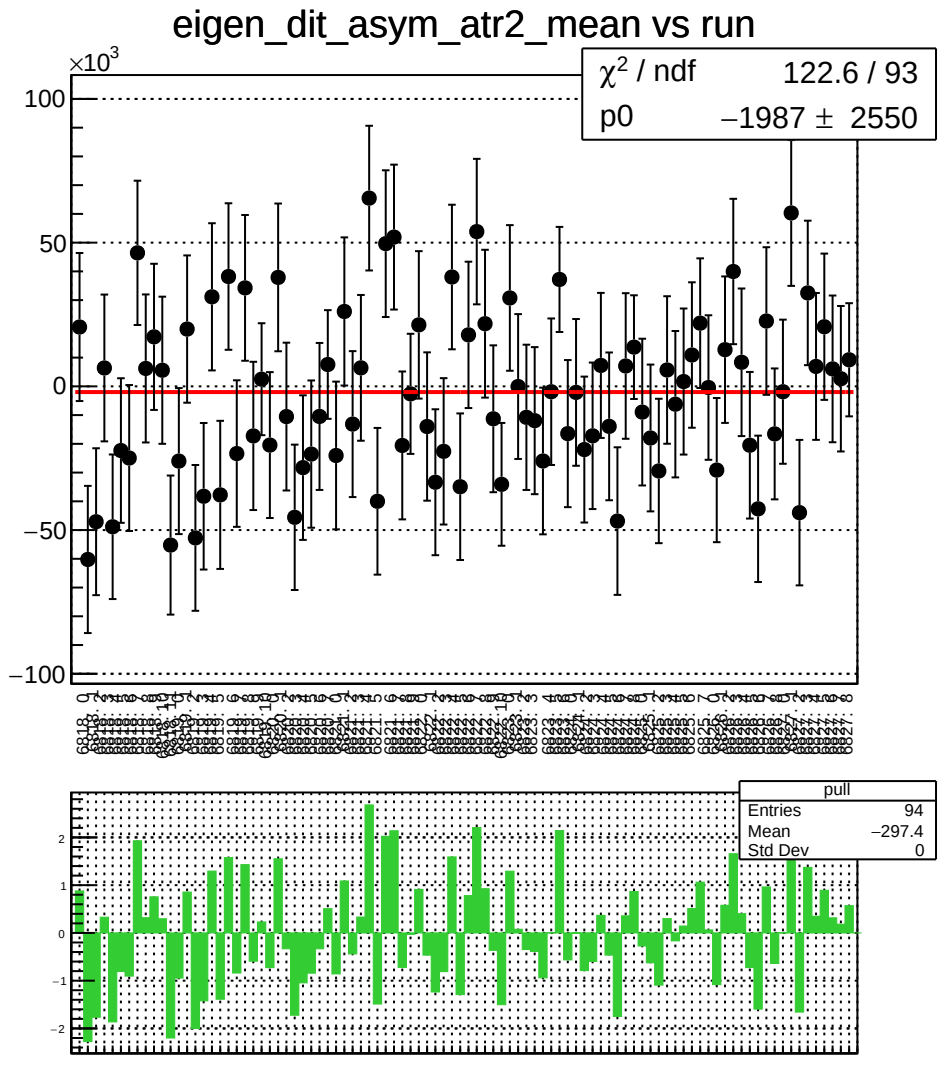

pull1D
Entries 94
Mean −0.01424
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

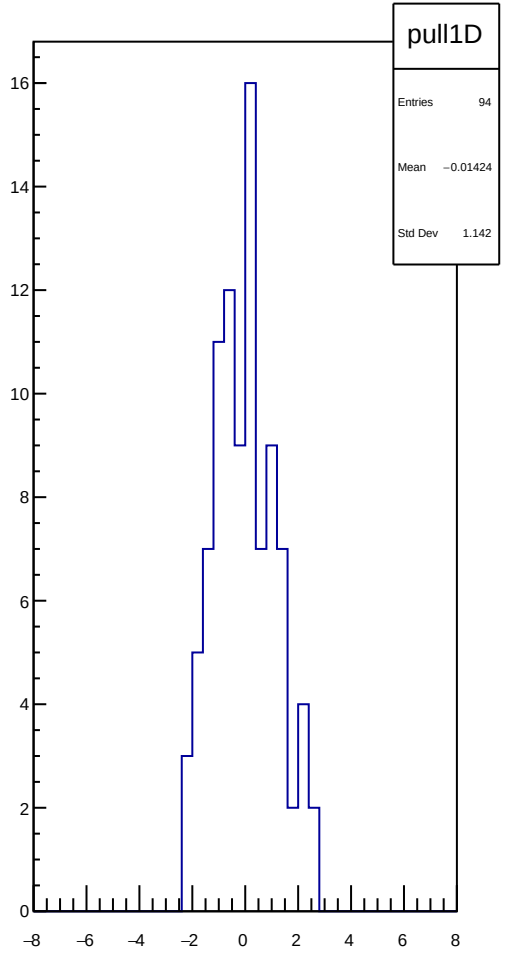

dit_asym_atr2_rms vs run
χ² / ndf 100.2 / 93
p0 2416 ± 1.803
2460
2440
2420
2400
2380
2360

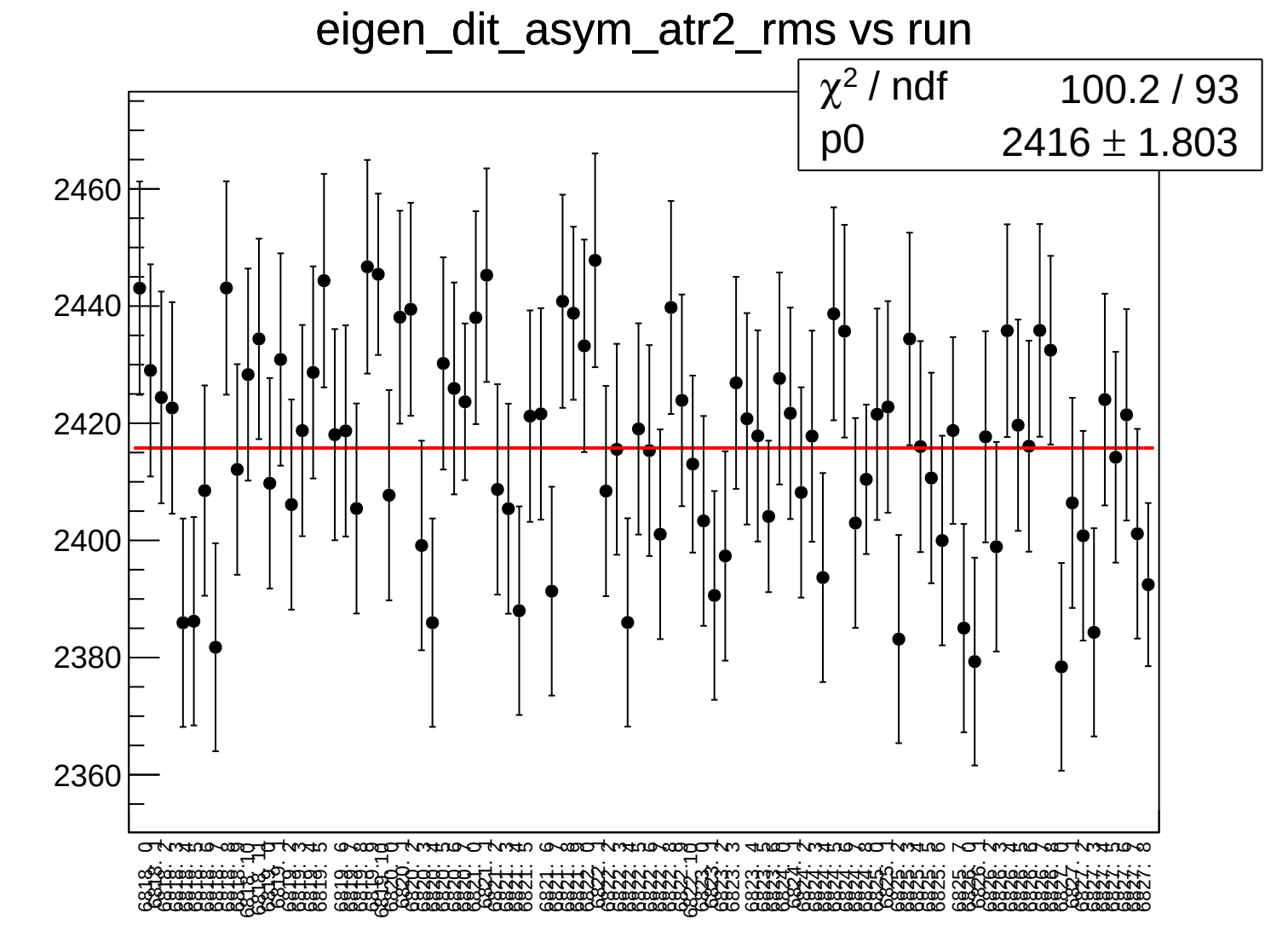

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 85.31 / 93
p0 4053 ± 7517
200
100
0
−100
−200
−300
pull
Entries 94
Mean 542.3
Std Dev 0
2
1
0
−1
−2
−3

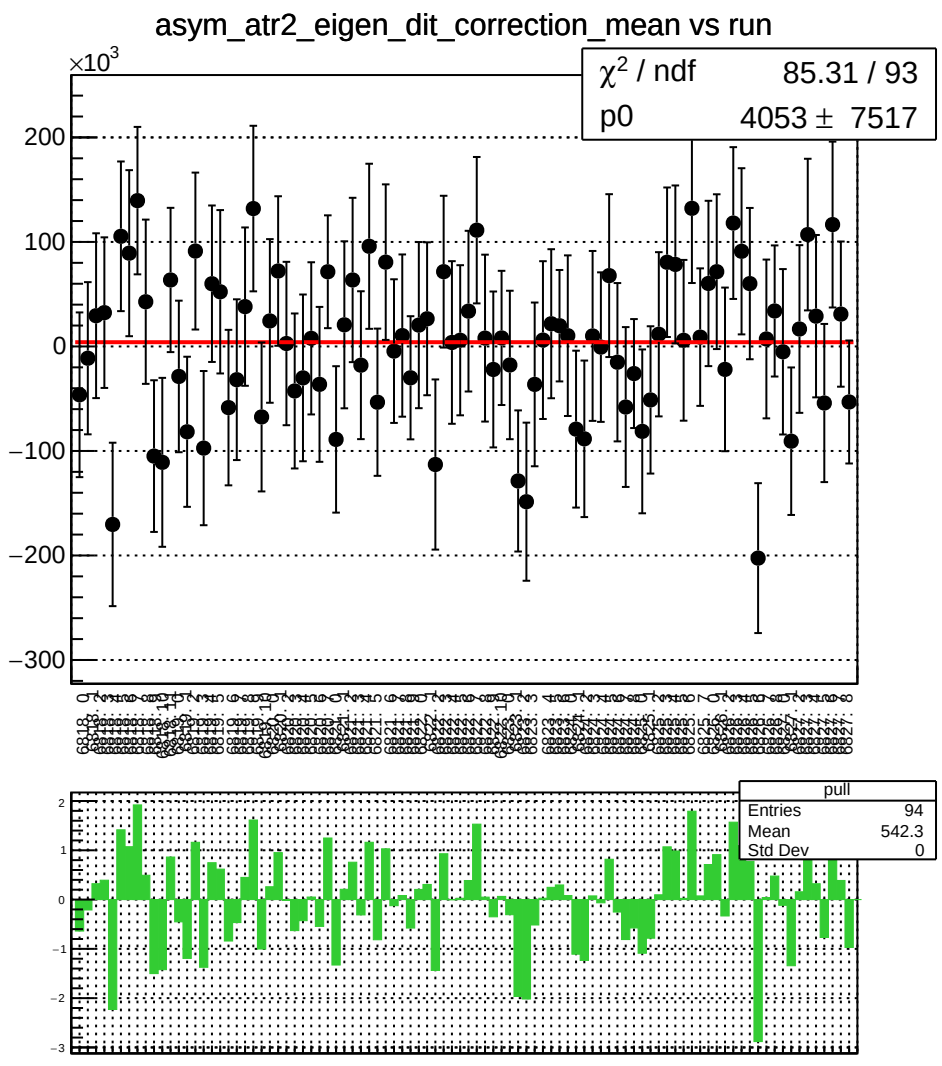

pull1D
Entries 94
Mean 0.001649
Std Dev 0.9526
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

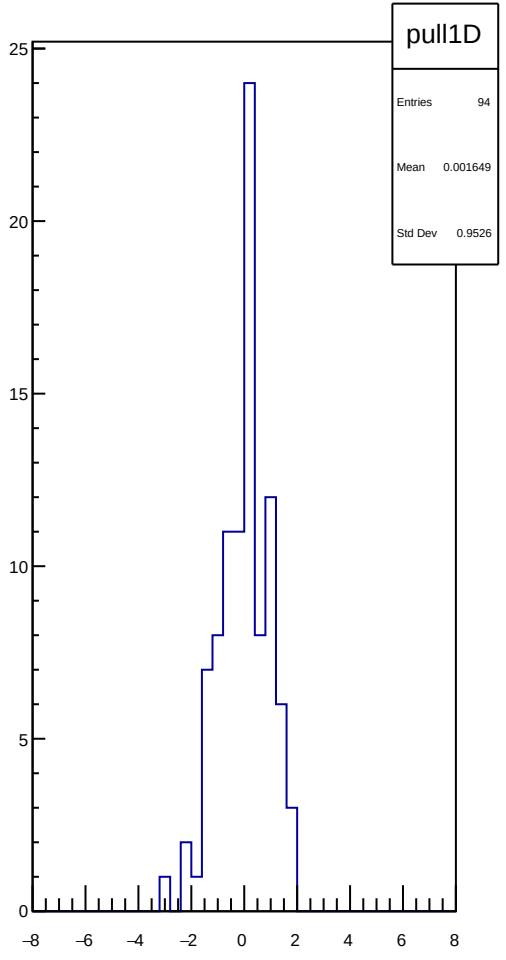

asym_atr2_dit_correction_rms vs run
χ^2 / ndf 4757 / 93
p0 7112 ± 5.316
9000
8500
8000
7500
7000
6500

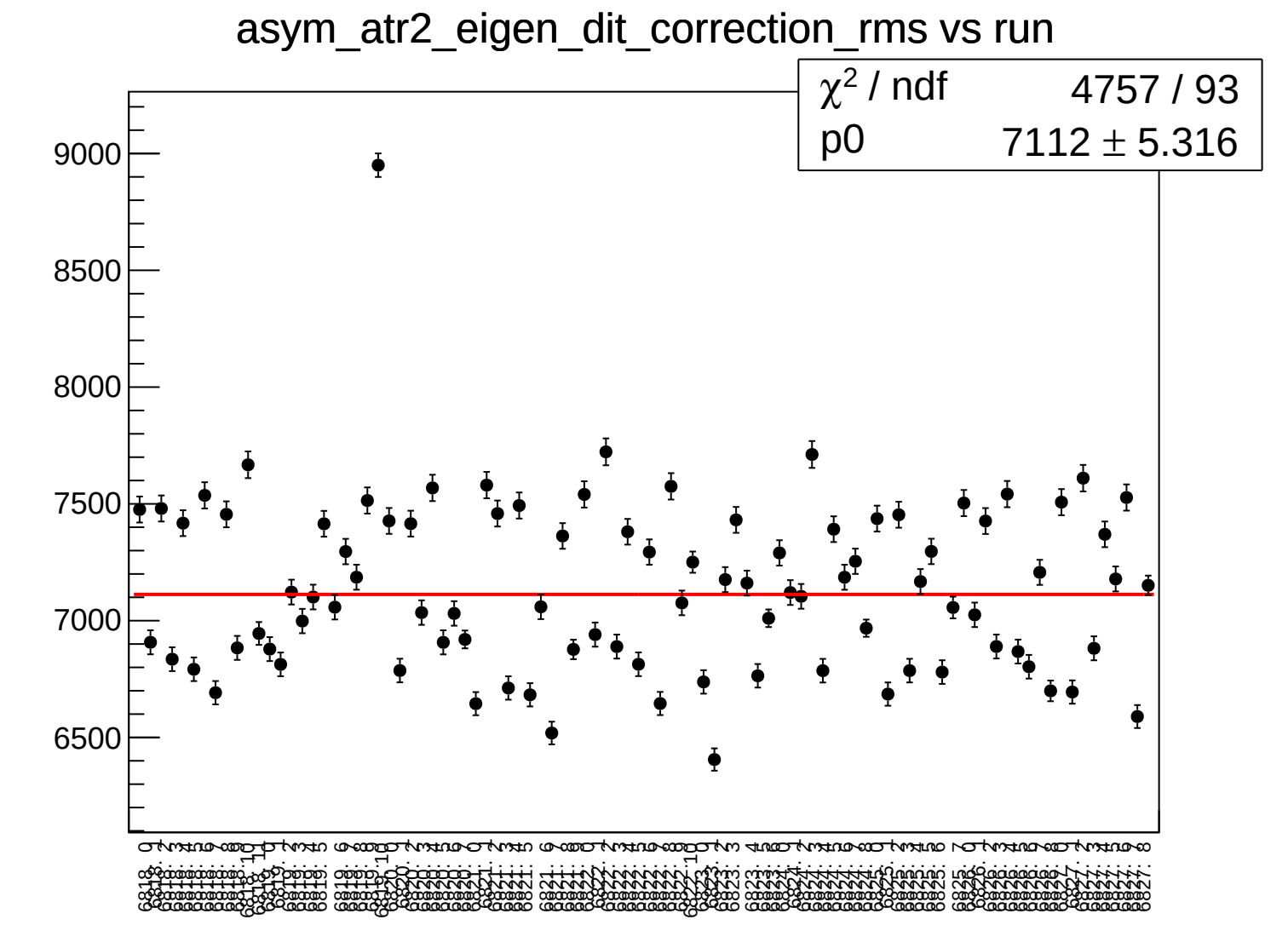

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 122.6 / 93
p0 −1987 ± 2550
100
50
0
−50
−100
pull
Entries 94
Mean −297.4
Std Dev 0
2
1
0
−1
−2

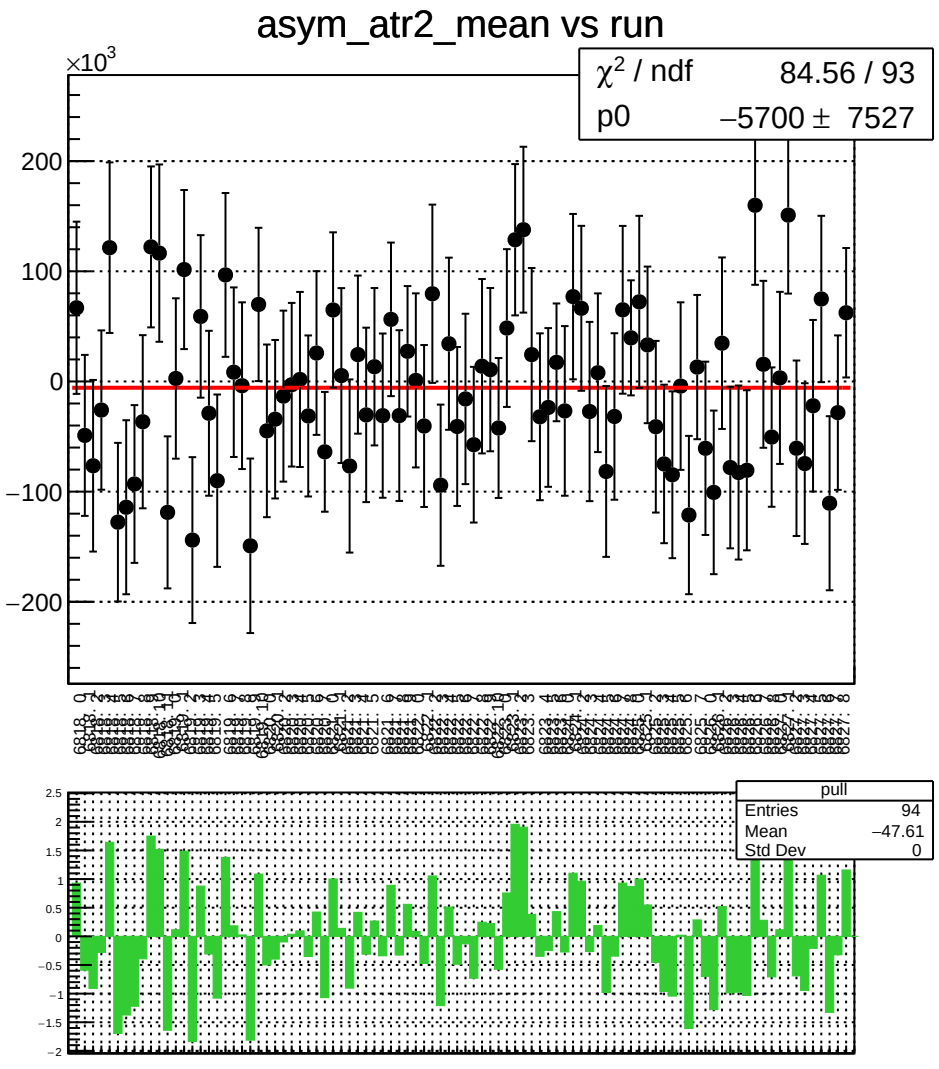

pull1D
Entries 94
Mean −0.01424
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

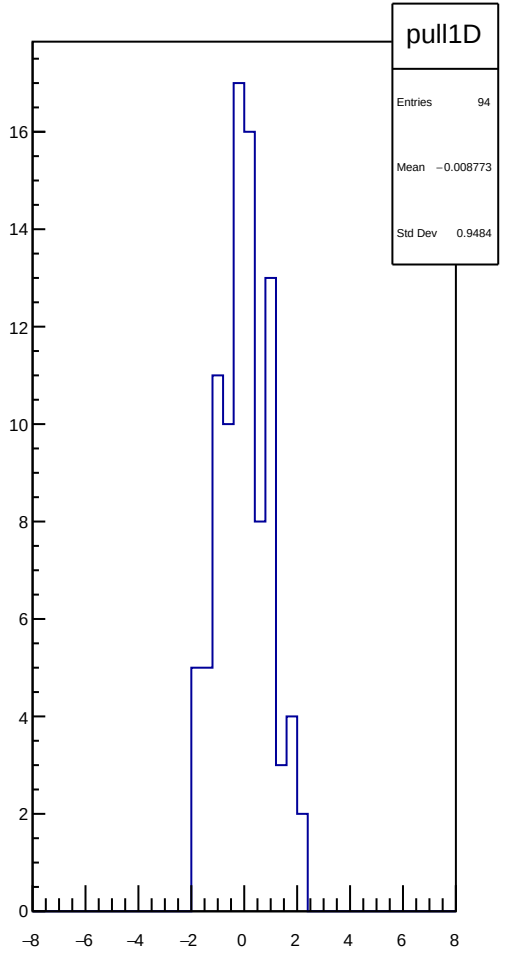

eigen_dit_asym_atr2_rms vs run
χ² / ndf 100.2 / 93
p0 2416 ± 1.803
2460
2440
2420
2400
2380
2360

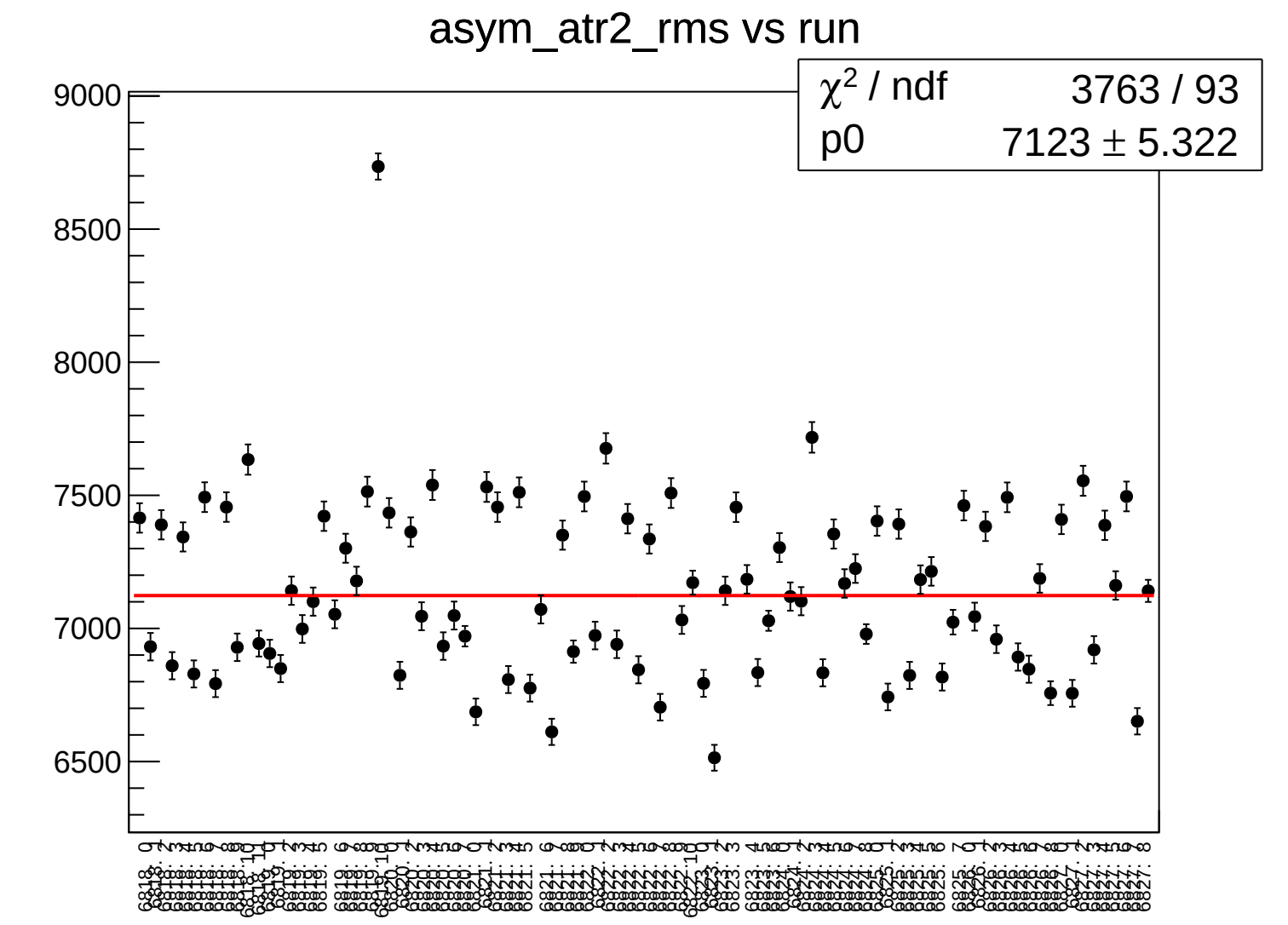

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.31 / 93
p0 4053 ± 7517
200
100
0
−100
−200
−300
pull
Entries 94
Mean 542.3
Std Dev 0
2
1
0
−1
−2
−3

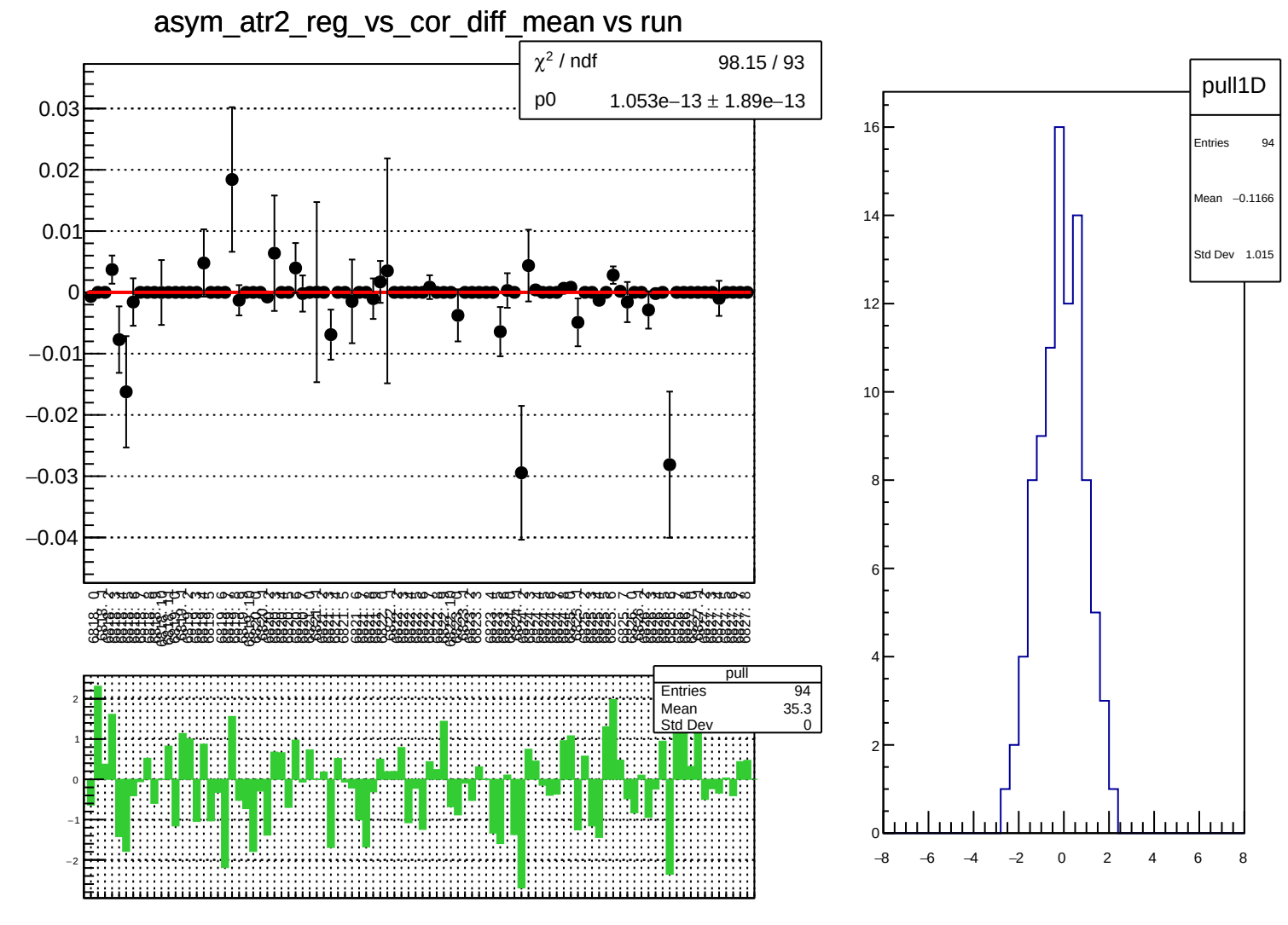

pull1D
Entries 94
Mean 0.001649
Std Dev 0.9526
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

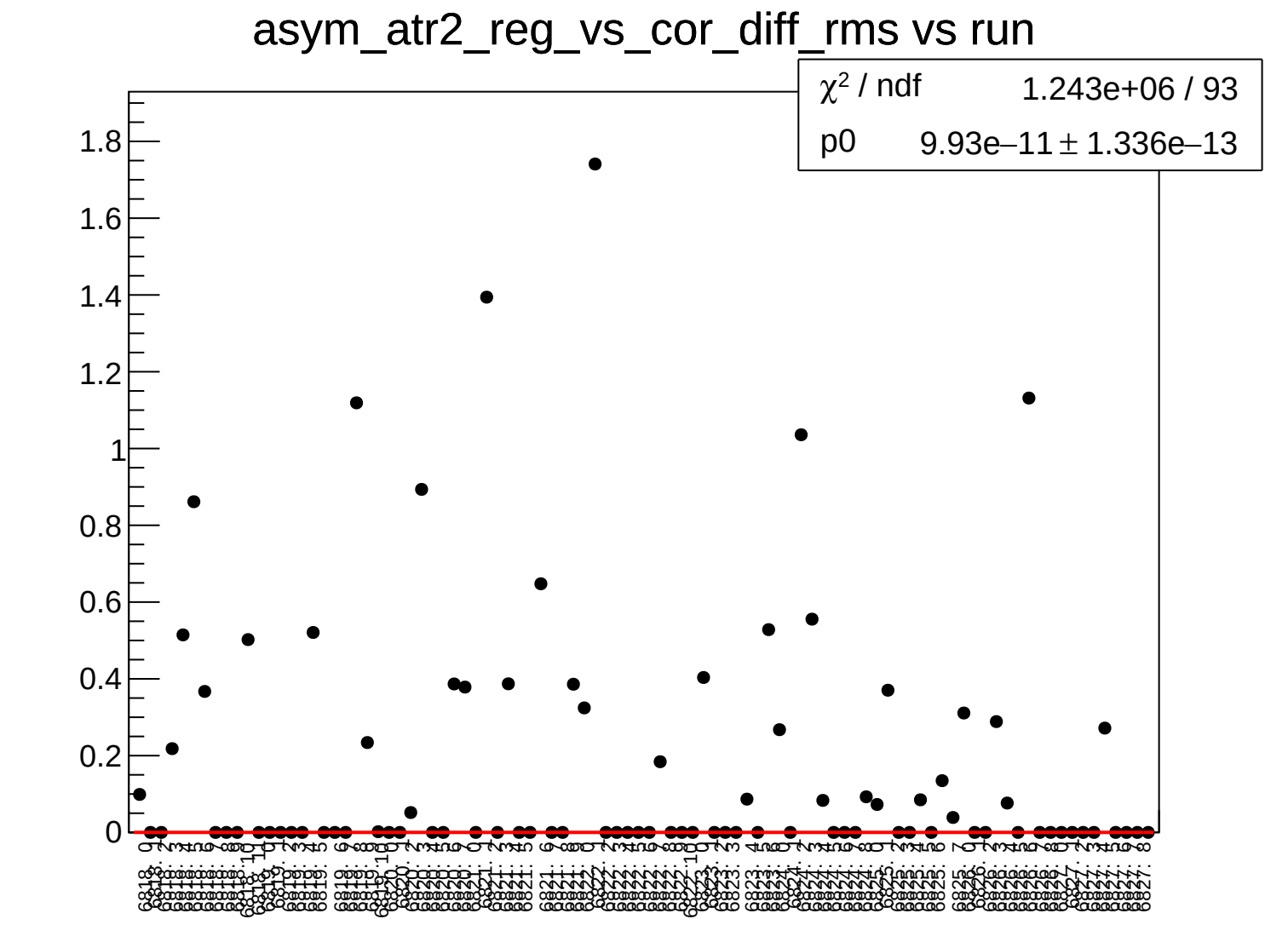

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 4757 / 93
p0 7112 ± 5.316
9000
8500
8000
7500
7000
6500

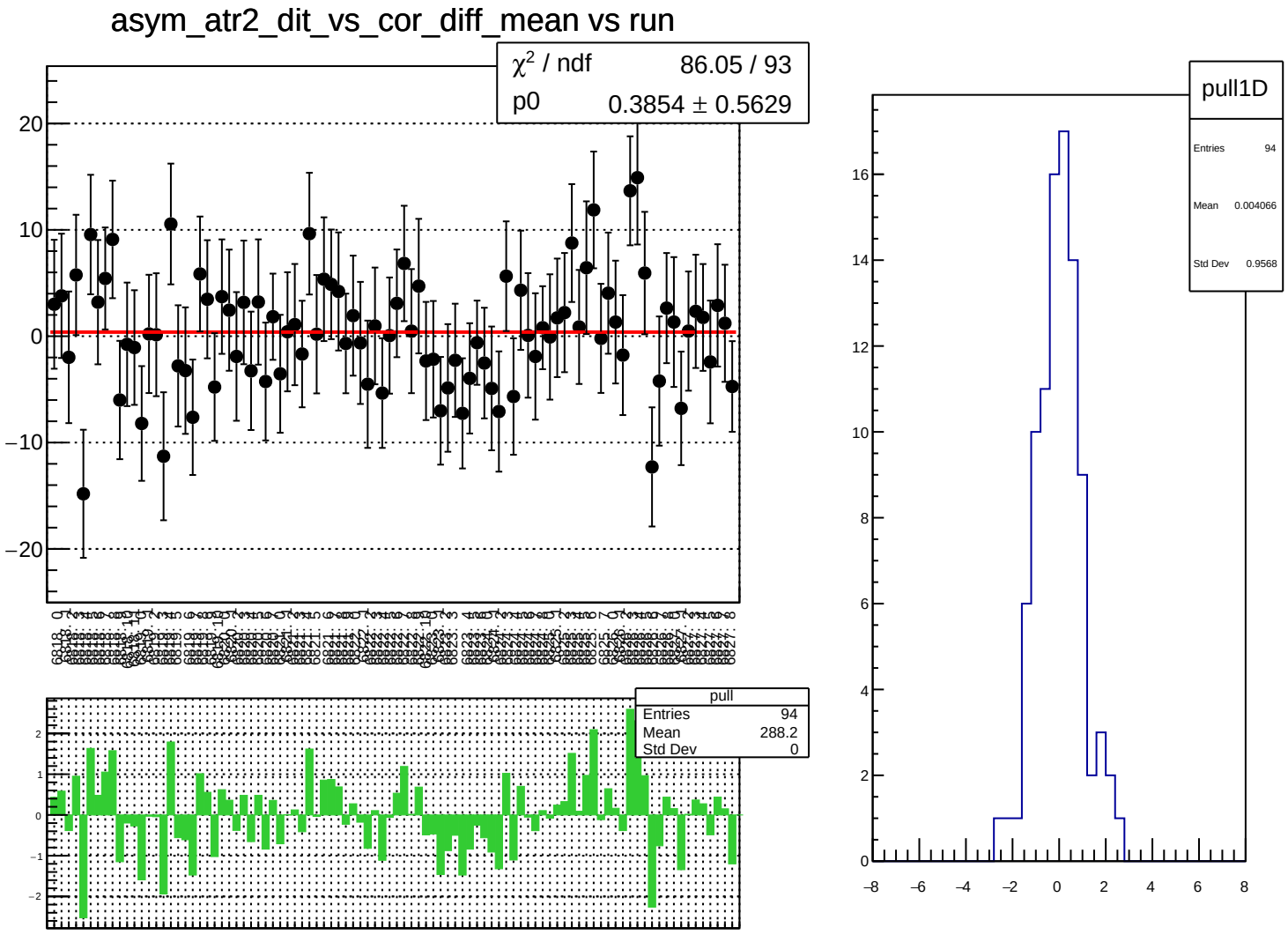

asym_atr2_mean vs run
×10^3
χ^2 / ndf 84.56 / 93
p0 −5700 ± 7527
200
100
0
−100
−200
pull
Entries 94
Mean −47.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

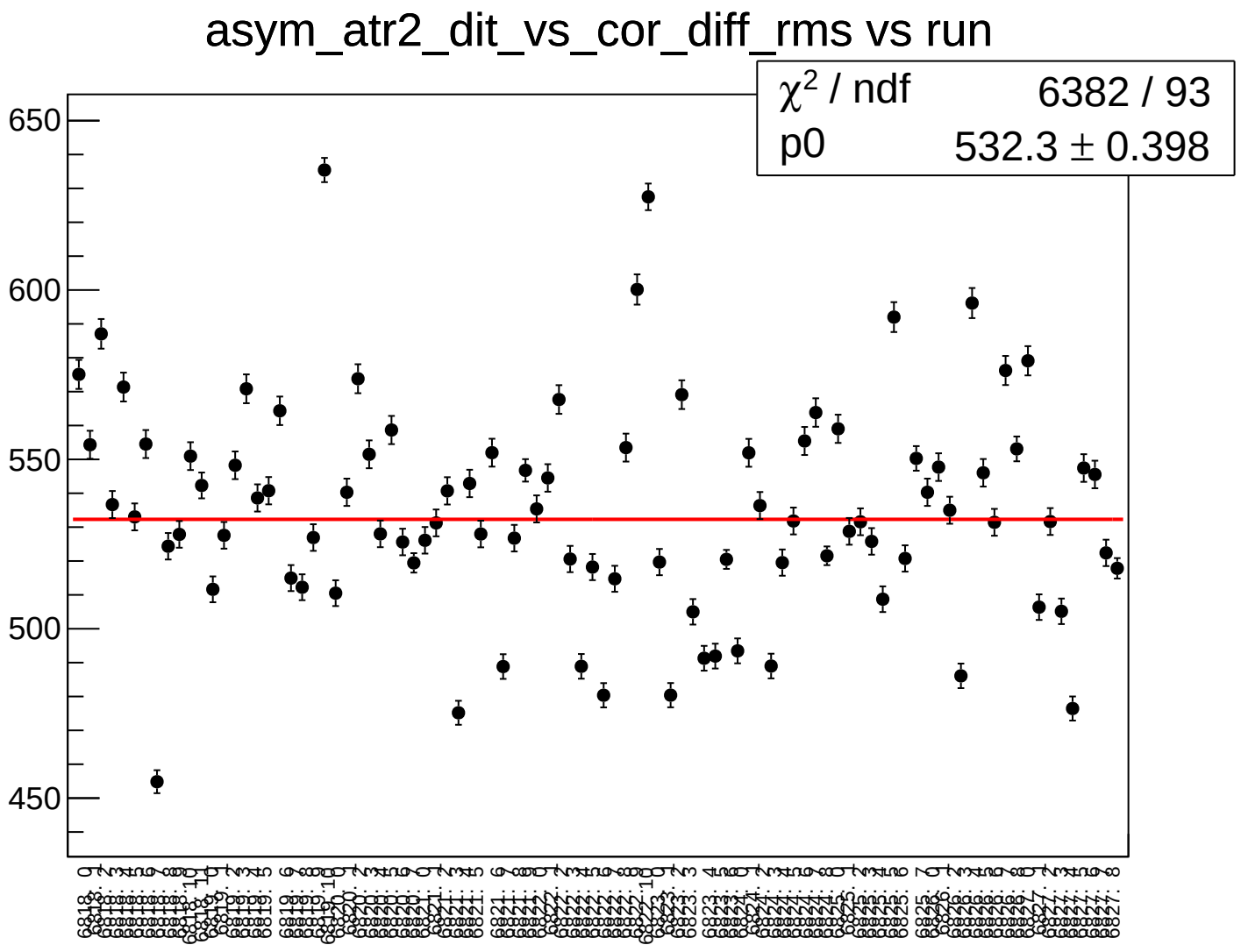

pull1D
Entries 94
Mean −0.008773
Std Dev 0.9484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

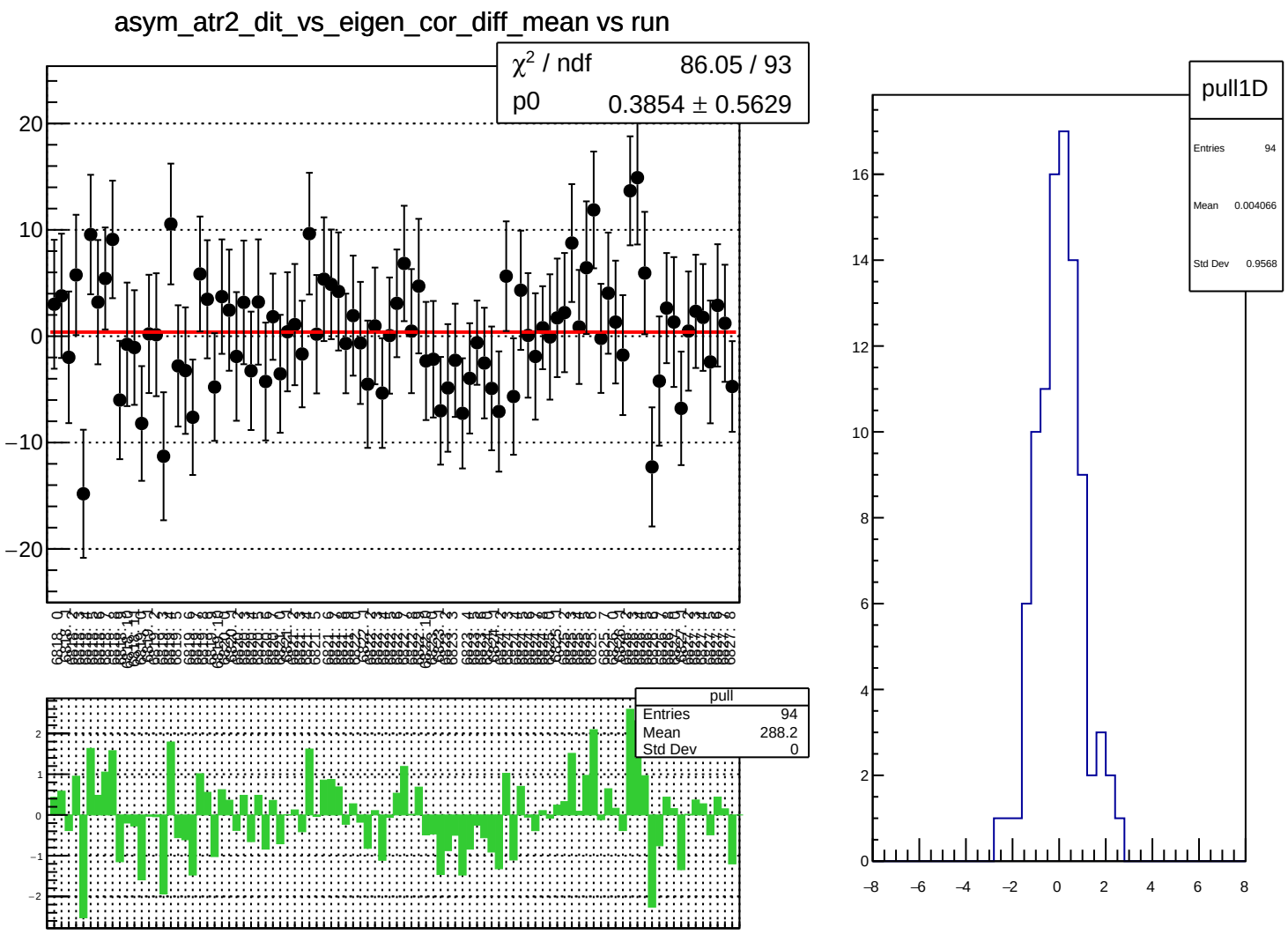

asym_atr2_rms vs run
χ^2 / ndf 3763 / 93
p0 7123 ± 5.322
9000
8500
8000
7500
7000
6500

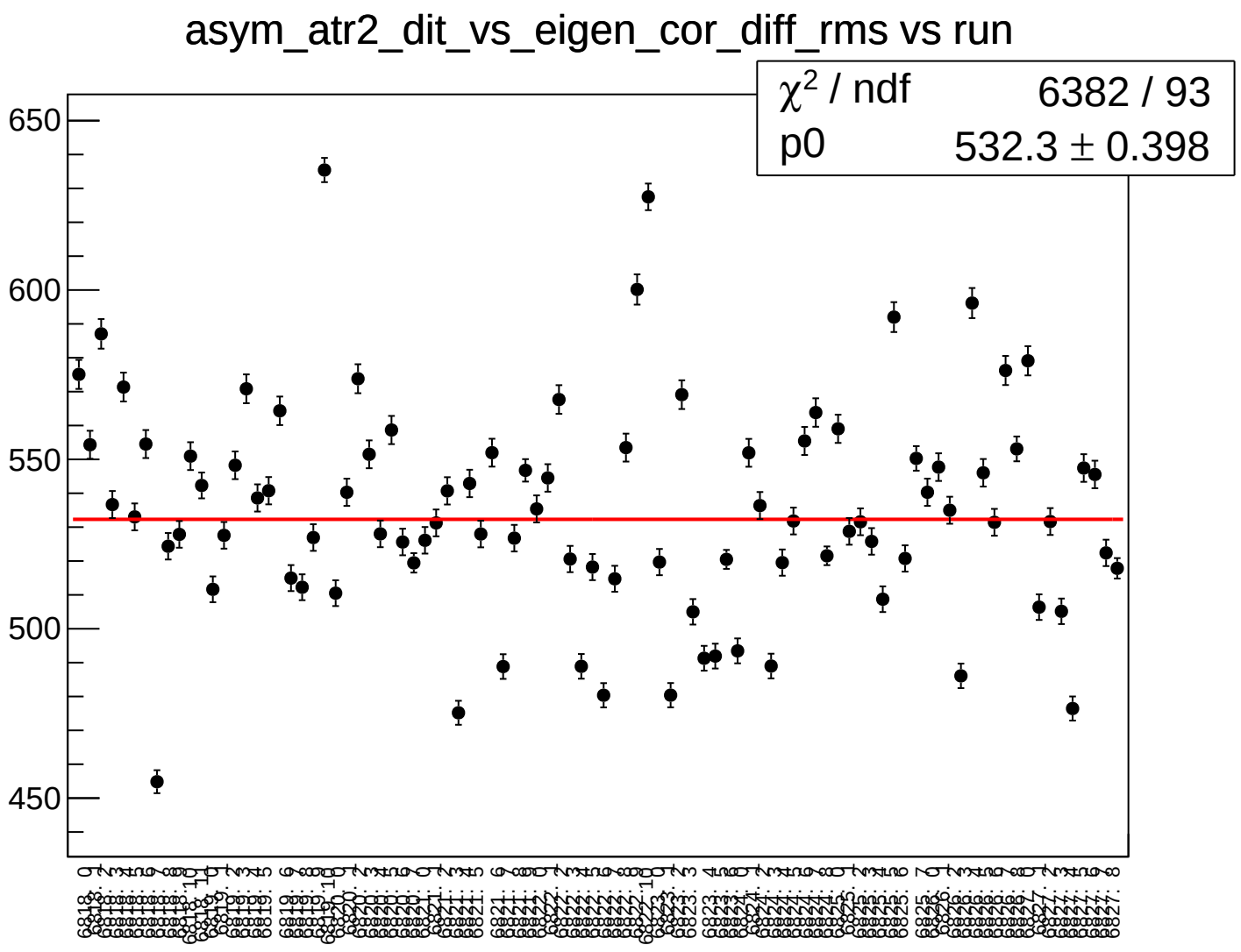

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 98.15 / 93
p0 1.053e−13 ± 1.89e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 94
Mean 35.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1166
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

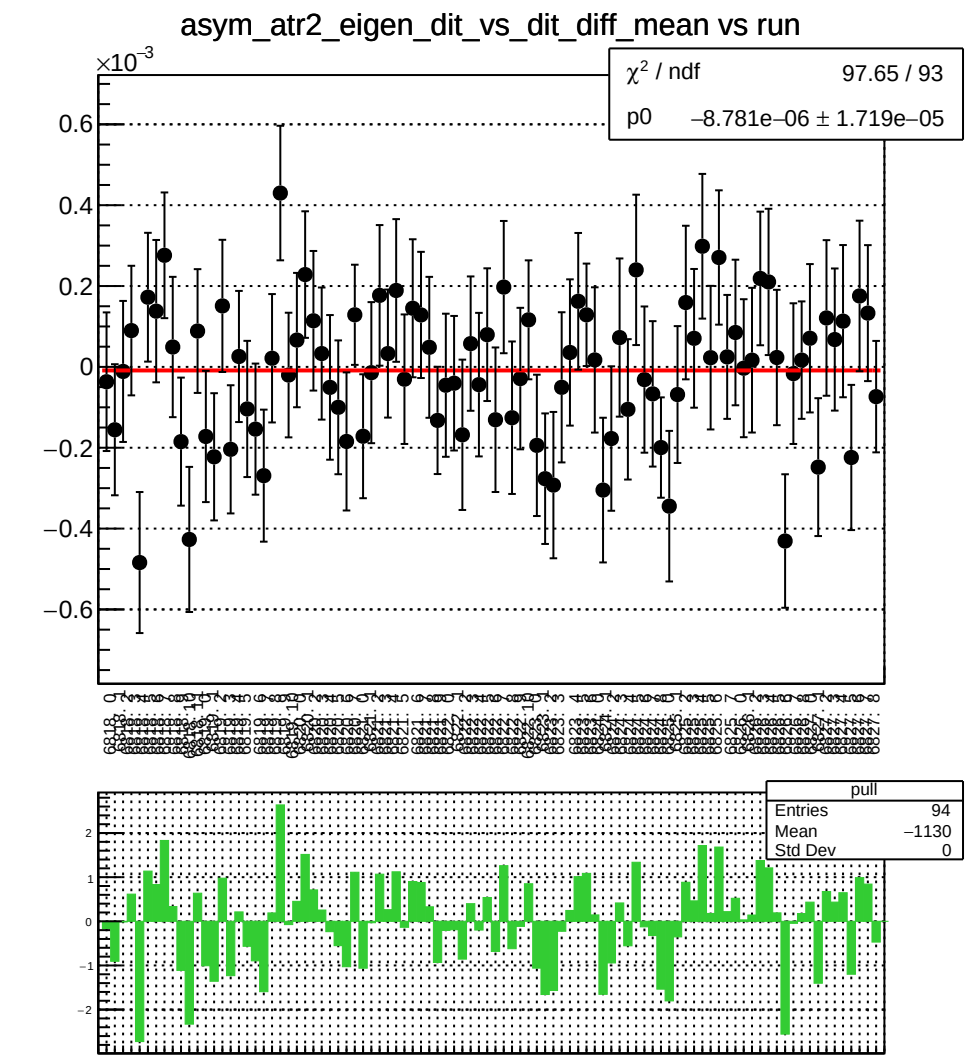

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.243e+06 / 93
p0 9.93e−11 ± 1.336e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

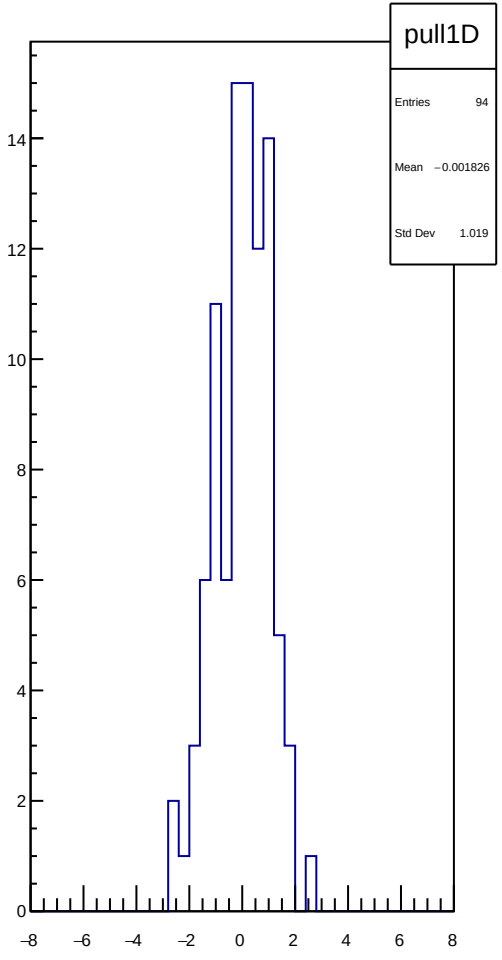

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 93
p0 0.3854 ± 0.5629
pull
Entries 94
Mean 288.2
Std Dev 0
pull1D
Entries 94
Mean 0.004066
Std Dev 0.9568

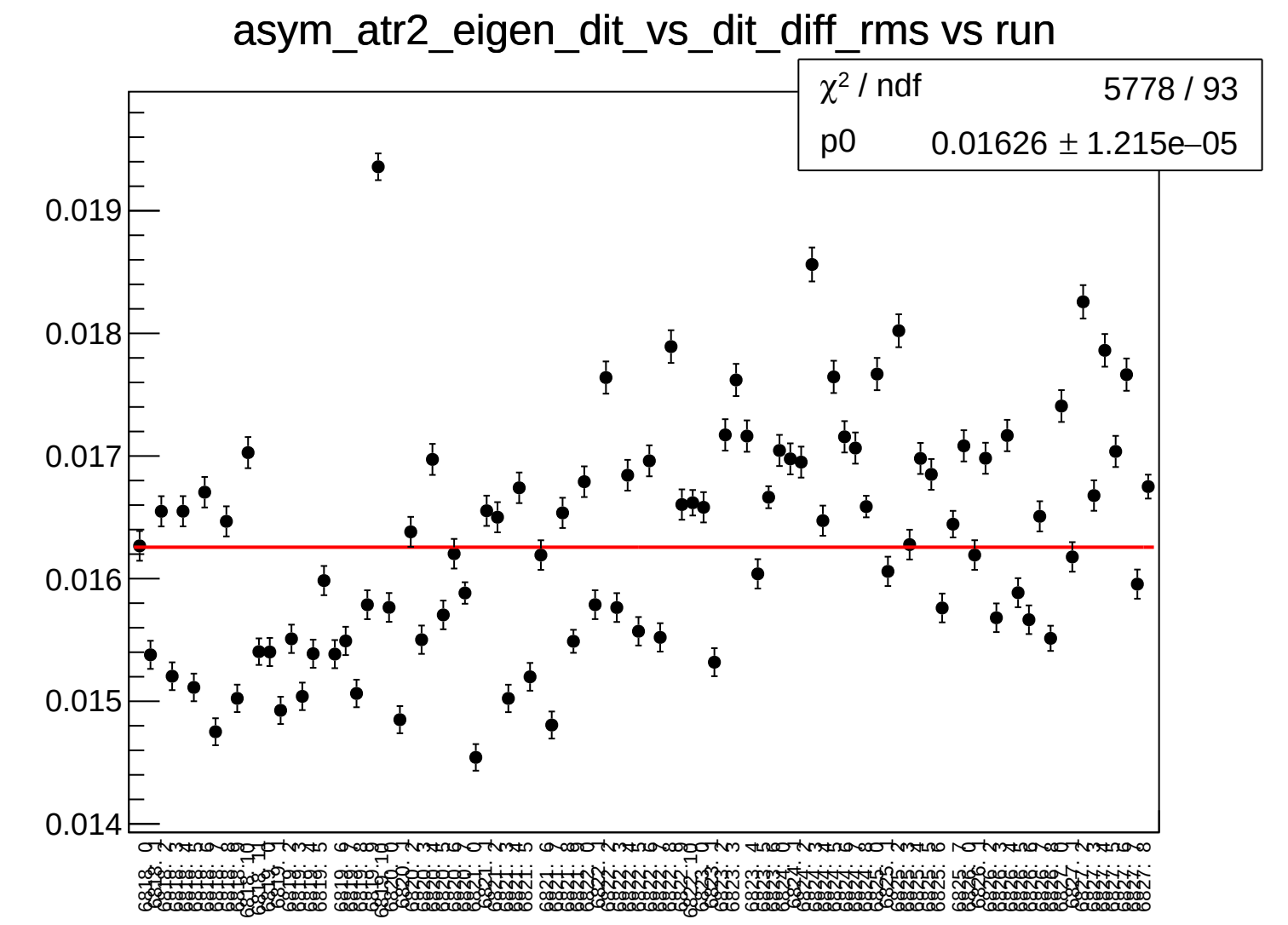

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 532.3 ± 0.398
650
600
550
500
450

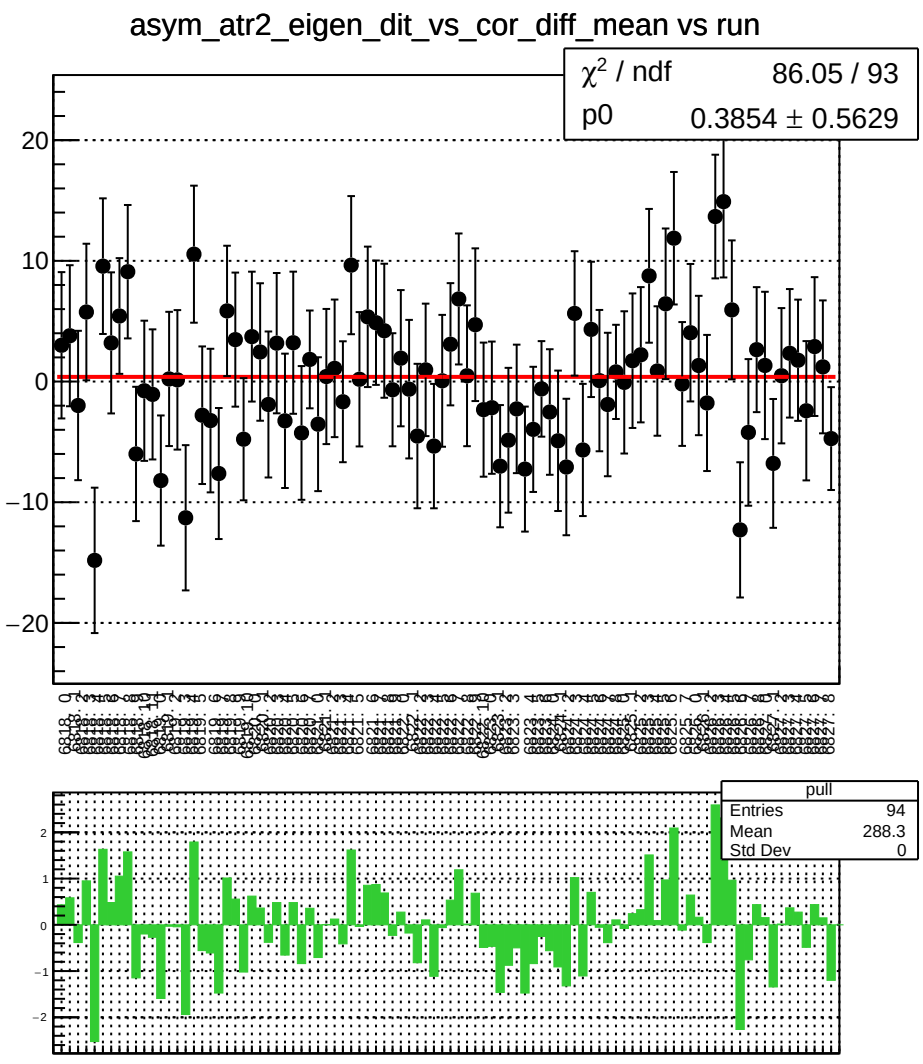

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 93
p0 0.3854 ± 0.5629
pull
Entries 94
Mean 288.2
Std Dev 0
pull1D
Entries 94
Mean 0.004066
Std Dev 0.9568

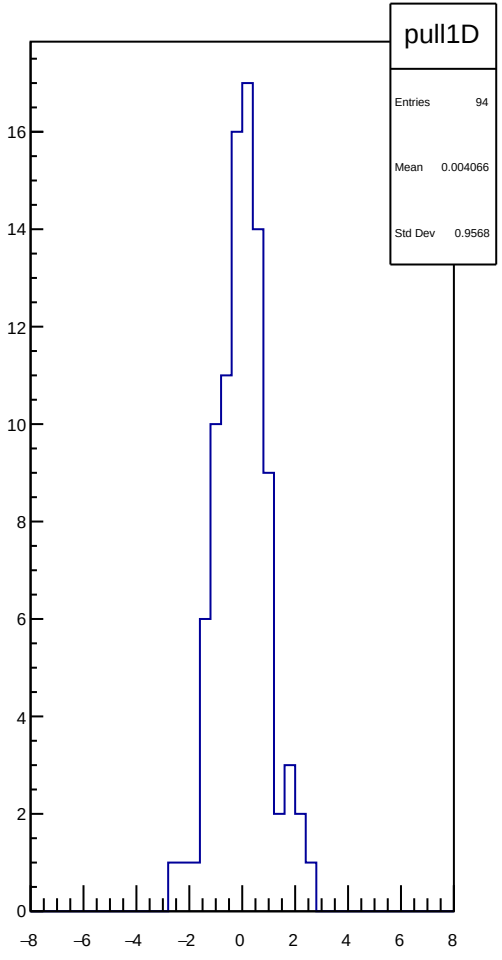

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 532.3 ± 0.398
650
600
550
500
450

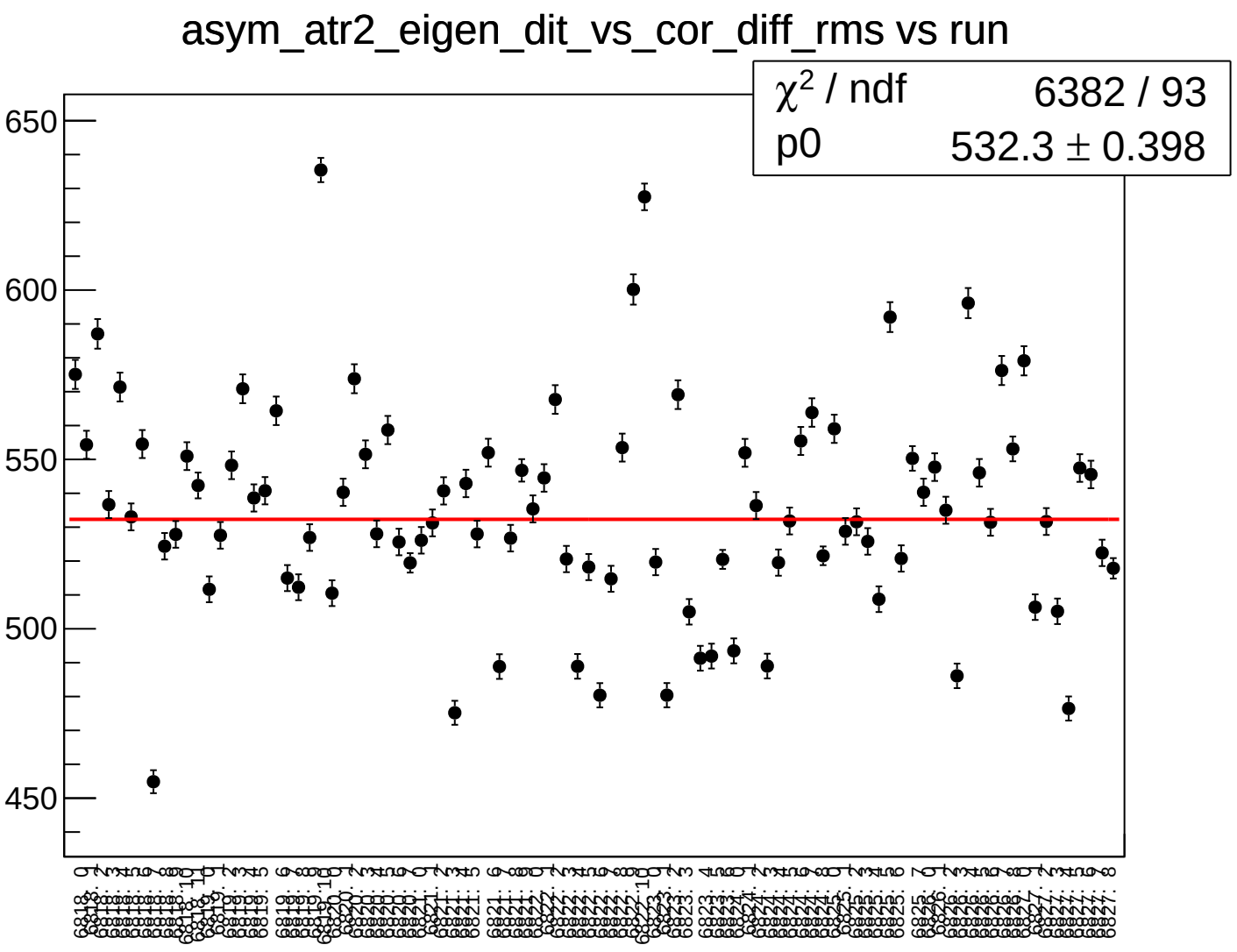

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.65 / 93
p0 −8.781e−06 ± 1.719e−05
pull
Entries 94
Mean −1130
Std Dev 0

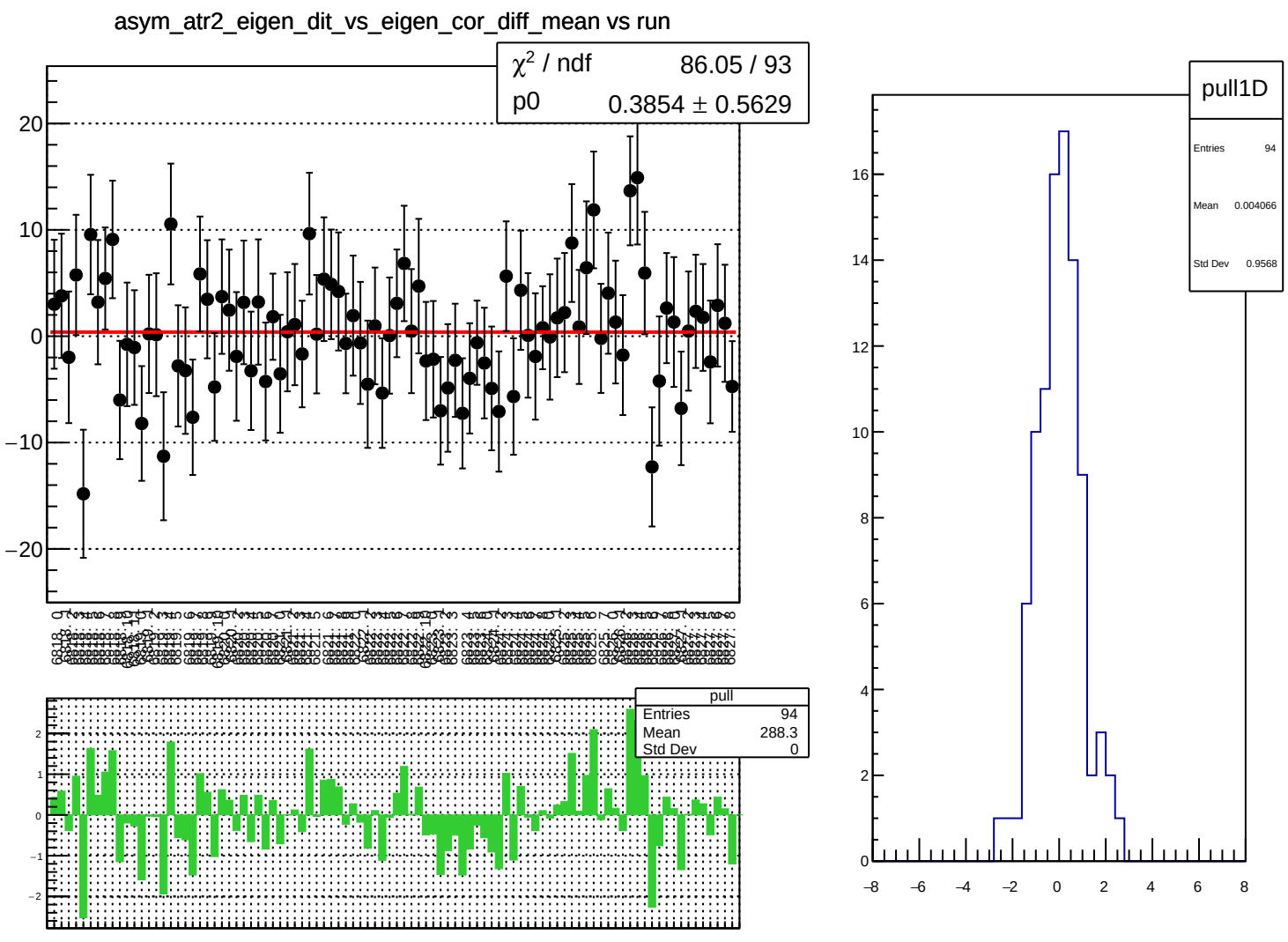

pull1D
Entries 94
Mean −0.001826
Std Dev 1.019

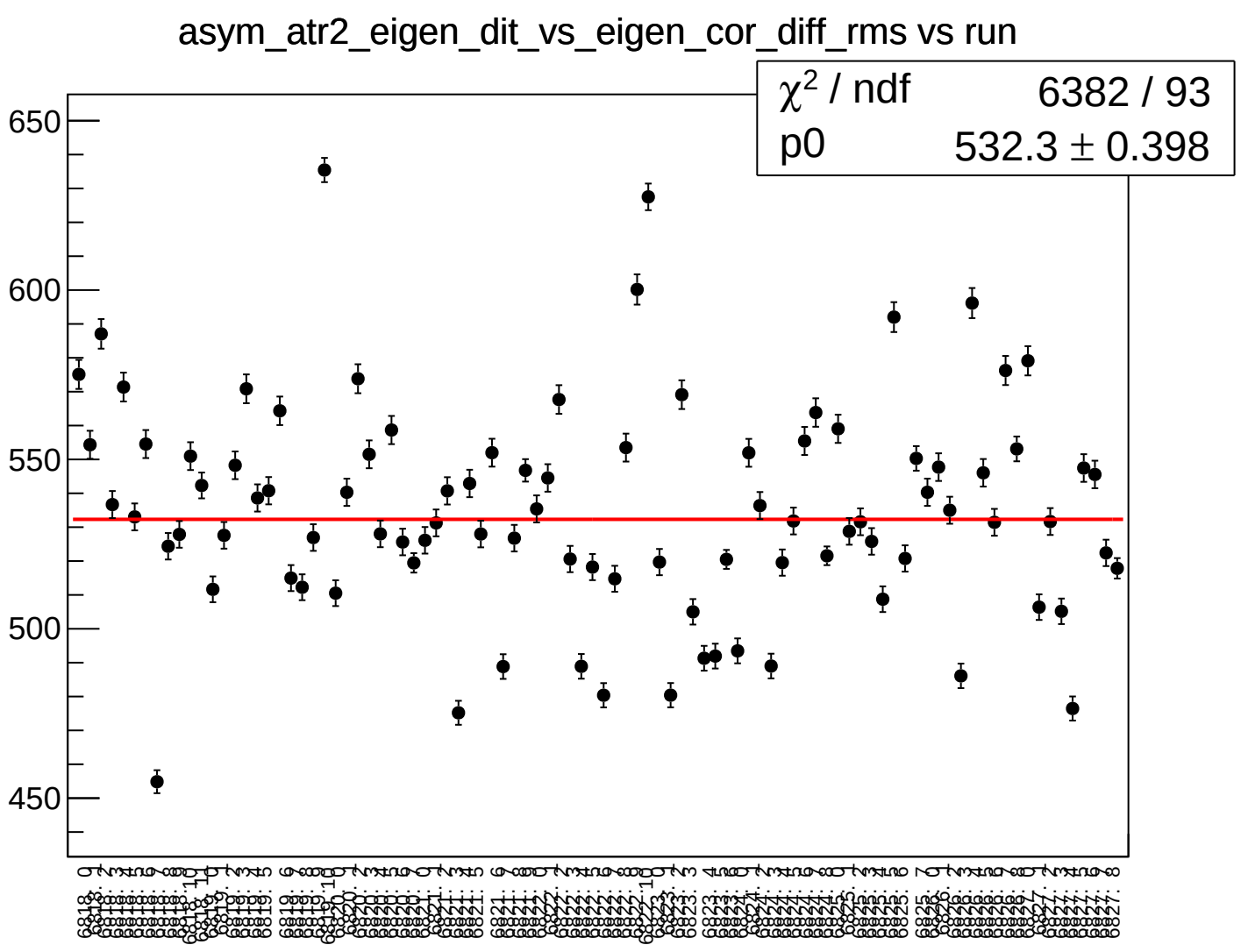

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5778 / 93
p0 0.01626 ± 1.215e–05
0.019
0.018
0.017
0.016
0.015
0.014

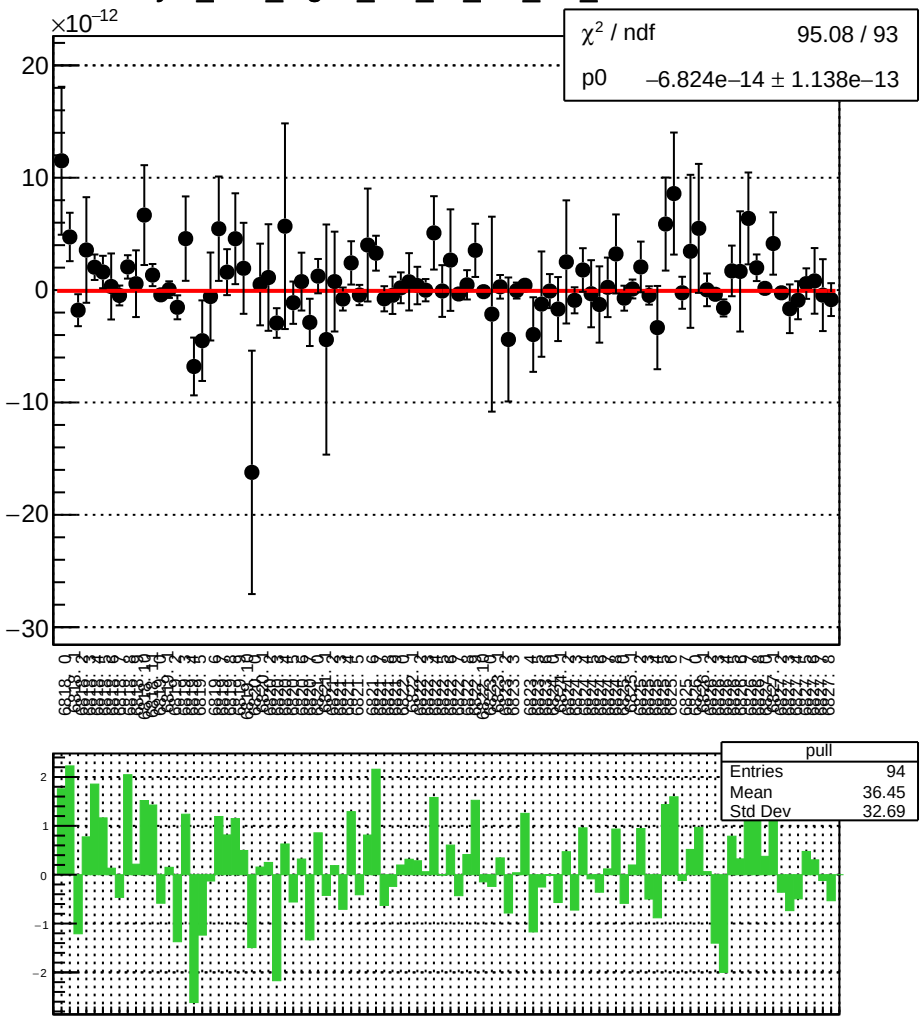

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 93
p0 0.3854 ± 0.5629
pull
Entries 94
Mean 288.3
Std Dev 0

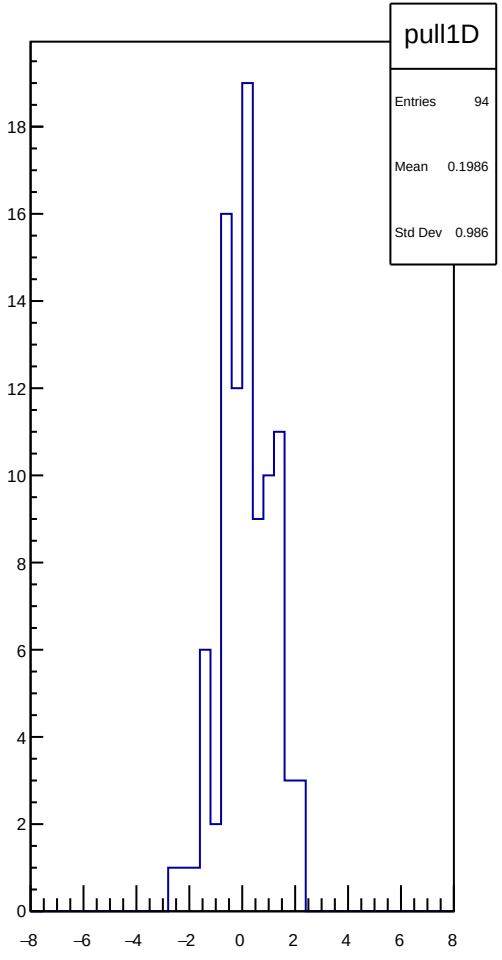

pull1D
Entries 94
Mean 0.004066
Std Dev 0.9568

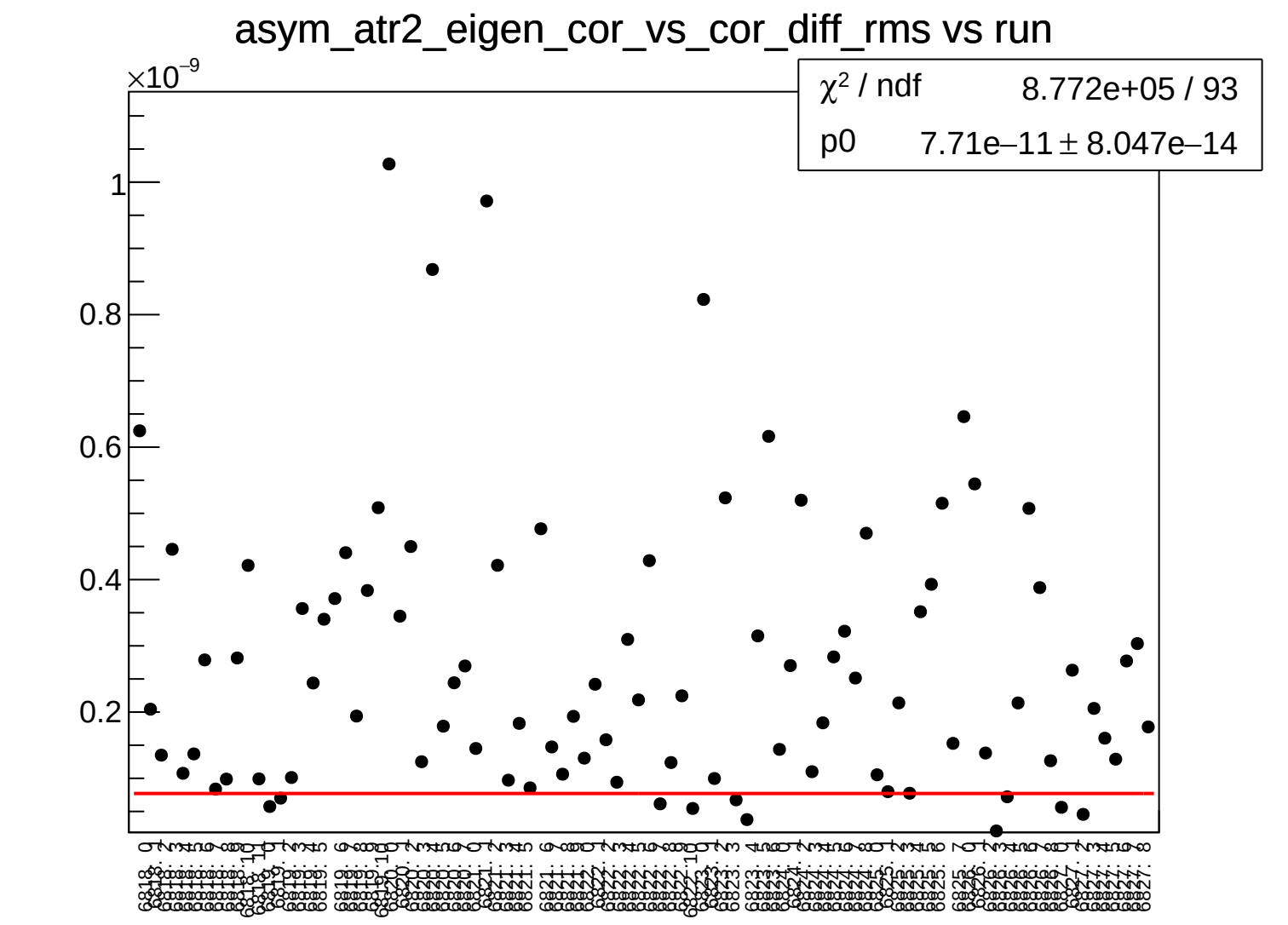

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 532.3 ± 0.398
650
600
550
500
450

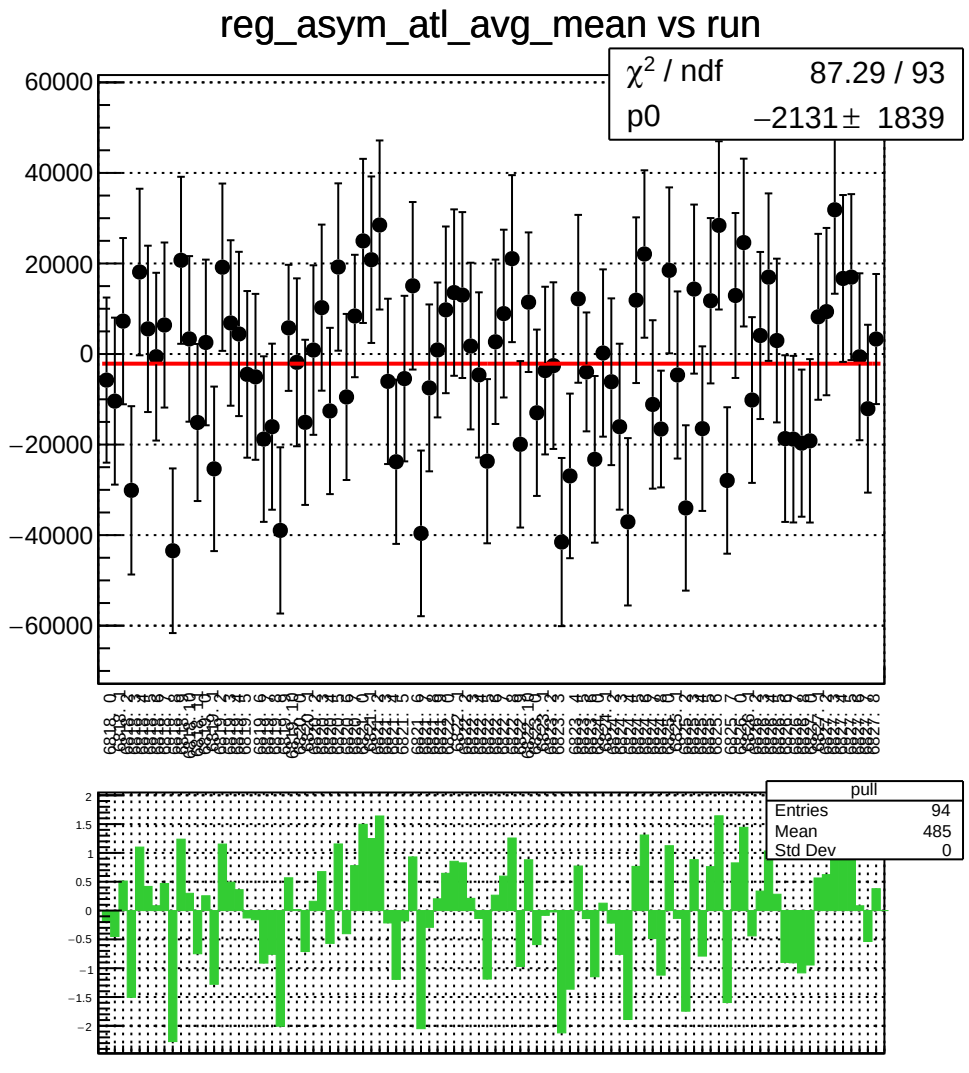

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 93
p0 0.3854 ± 0.5629
pull
Entries 94
Mean 288.3
Std Dev 0
pull1D
Entries 94
Mean 0.004066
Std Dev 0.9568

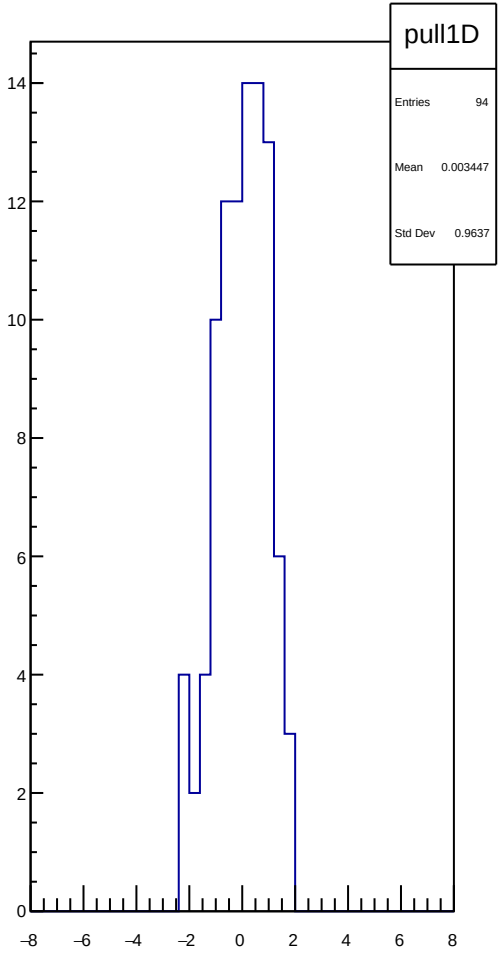

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6382 / 93
p0 532.3 ± 0.398
650
600
550
500
450

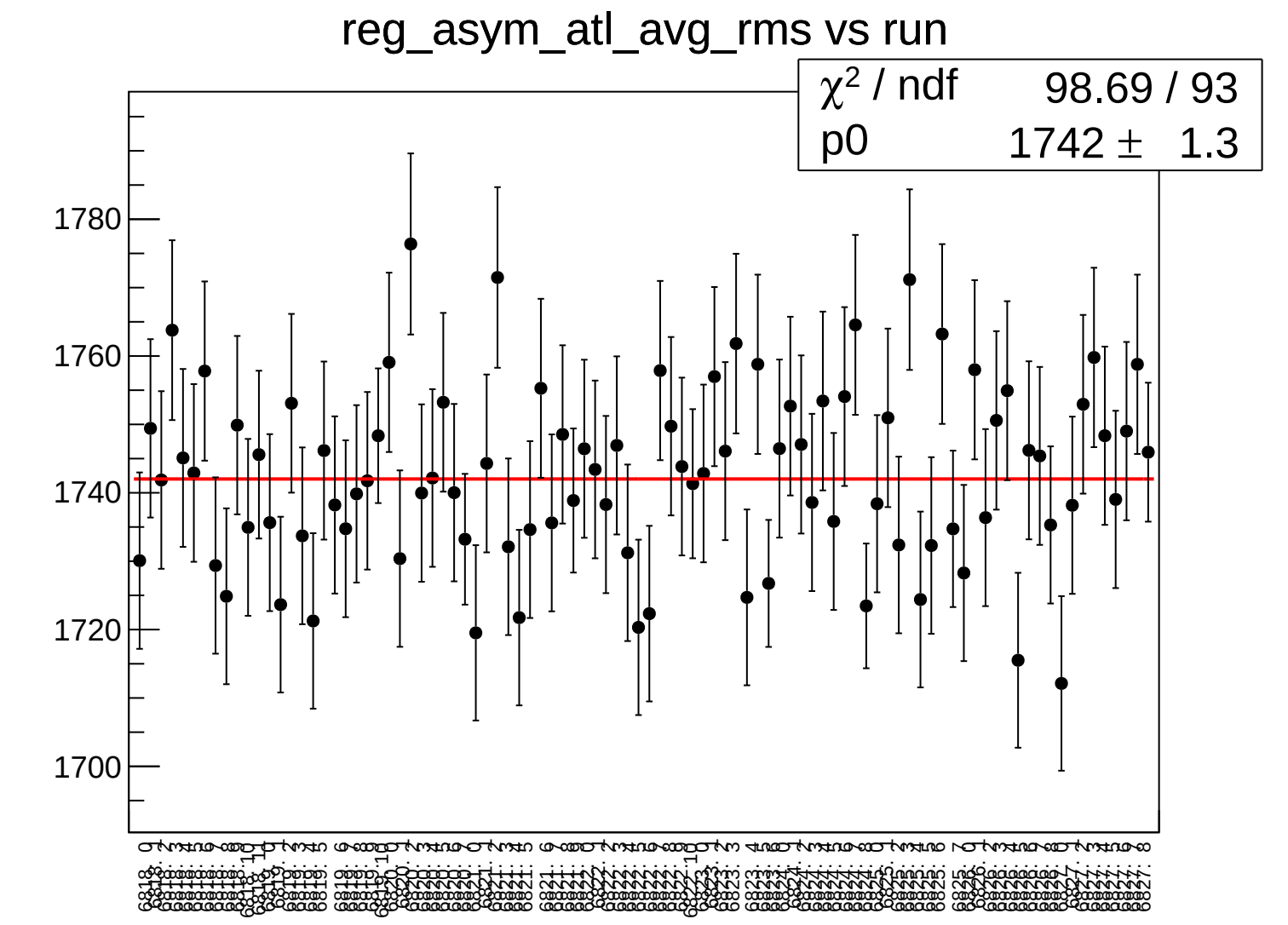

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.08 / 93
p0 −6.824e−14 ± 1.138e−13
pull
Entries 94
Mean 36.45
Std Dev 32.69

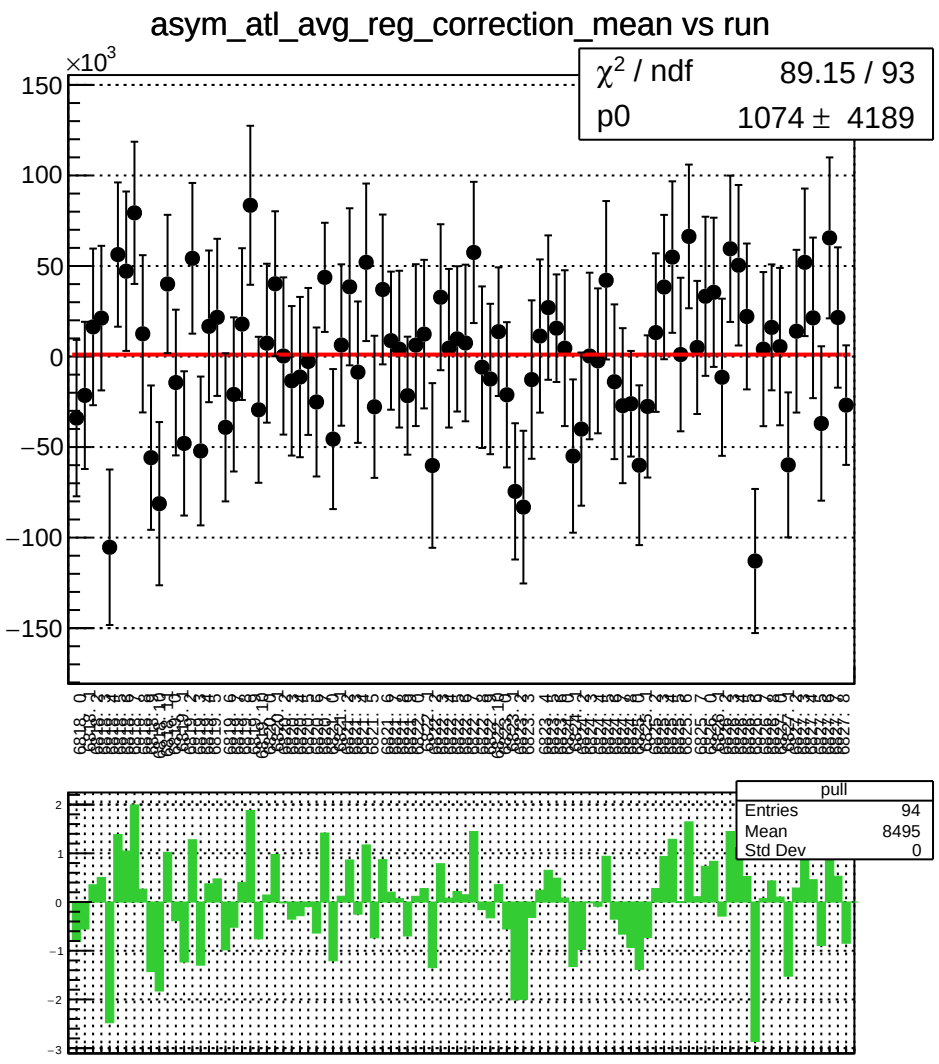

pull1D
Entries 94
Mean 0.1986
Std Dev 0.986

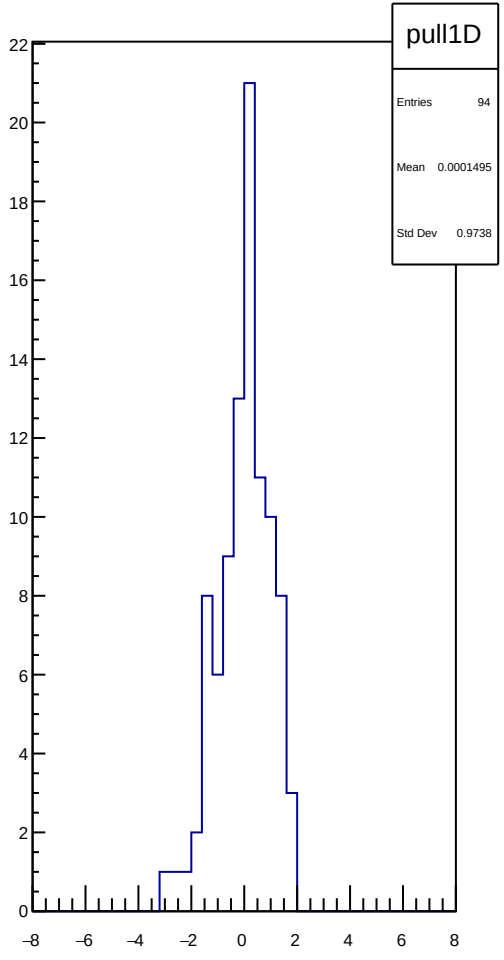

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.772e+05 / 93
p0 7.71e−11 ± 8.047e−14
1
0.8
0.6
0.4
0.2

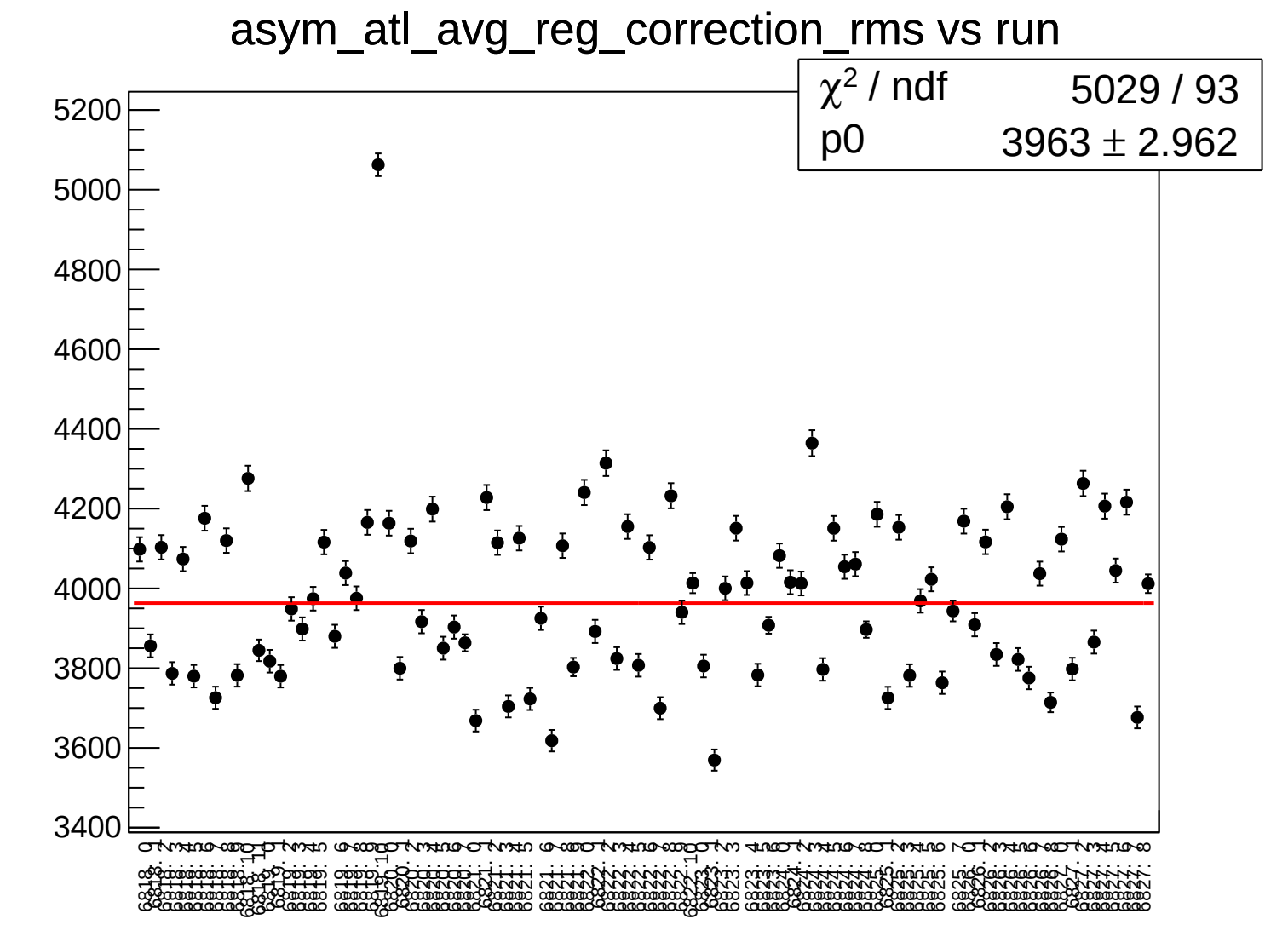

reg_asym_atl_avg_mean vs run
χ² / ndf 87.29 / 93
p0 −2131 ± 1839
pull
Entries 94
Mean 485
Std Dev 0

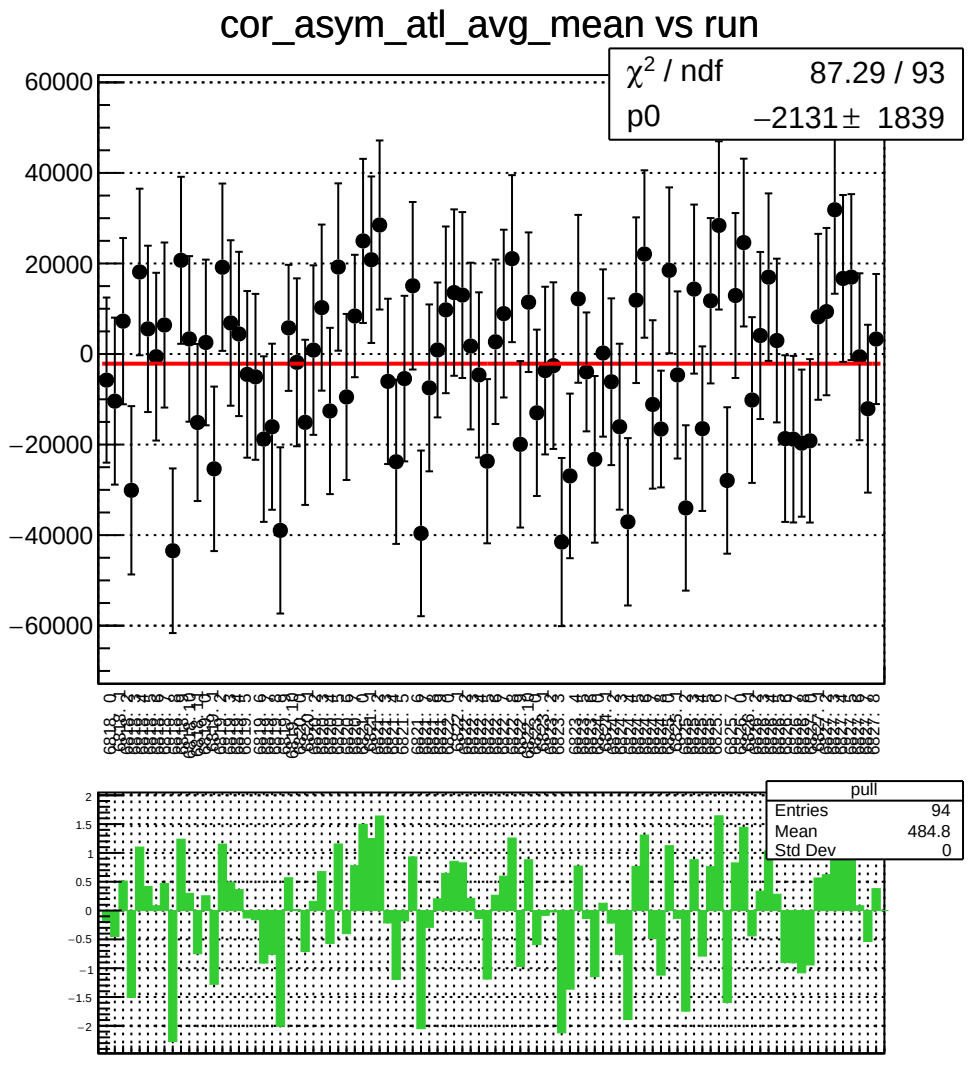

pull1D
Entries 94
Mean 0.003447
Std Dev 0.9637

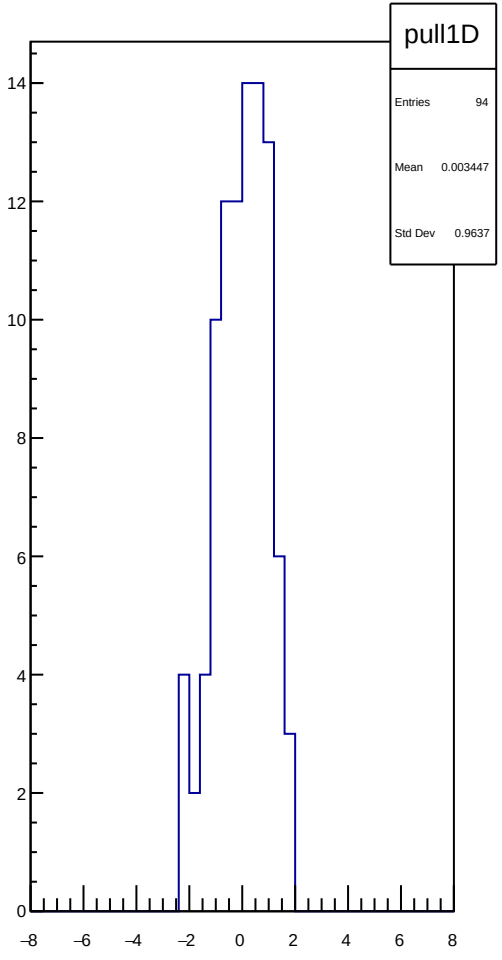

reg_asym_atl_avg_rms vs run
χ² / ndf 98.69 / 93
p0 1742 ± 1.3
1780
1760
1740
1720
1700

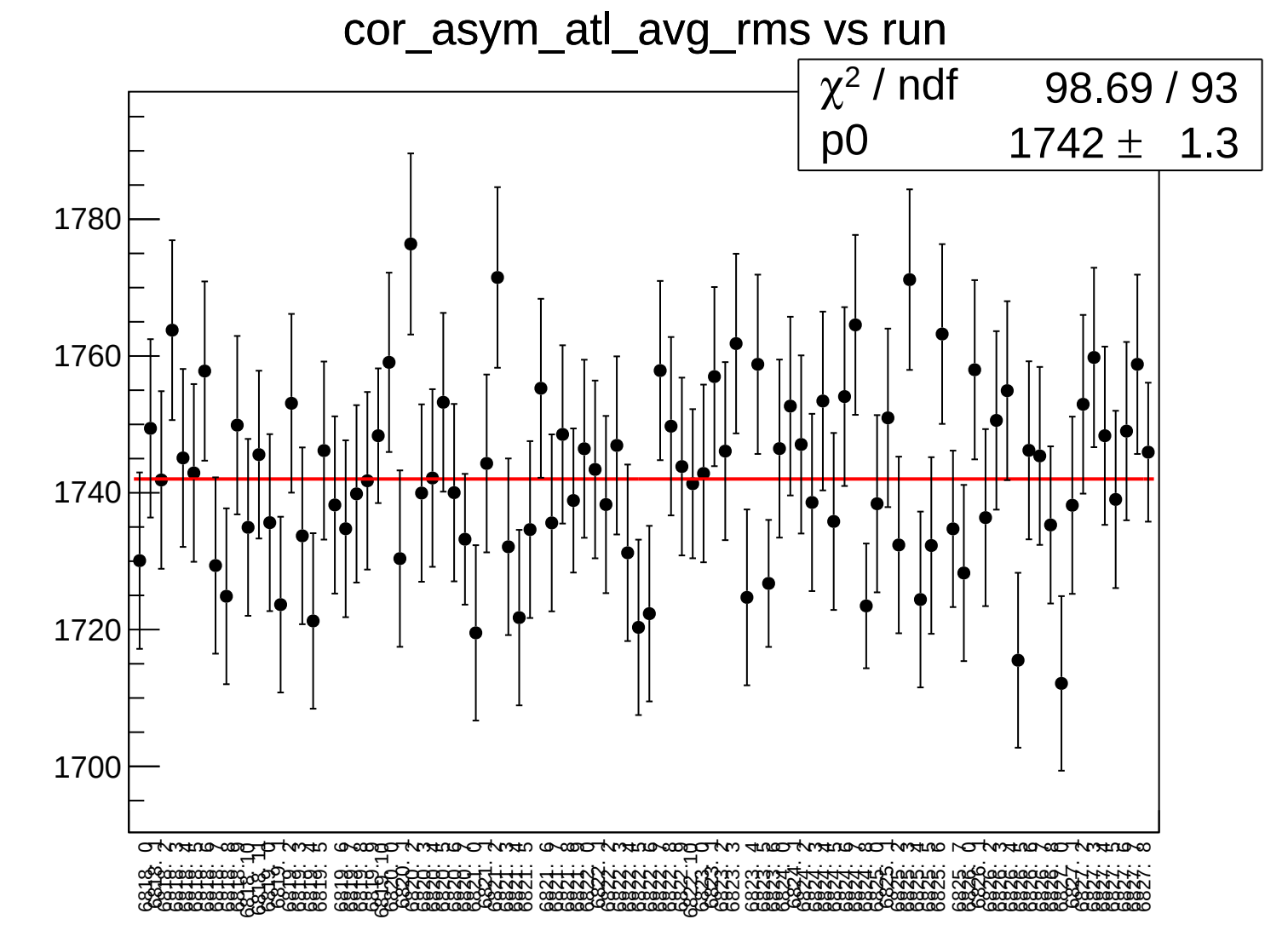

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.15 / 93
p0 1074 ± 4189
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 8495
Std Dev 0
2
1
0
−1
−2
−3

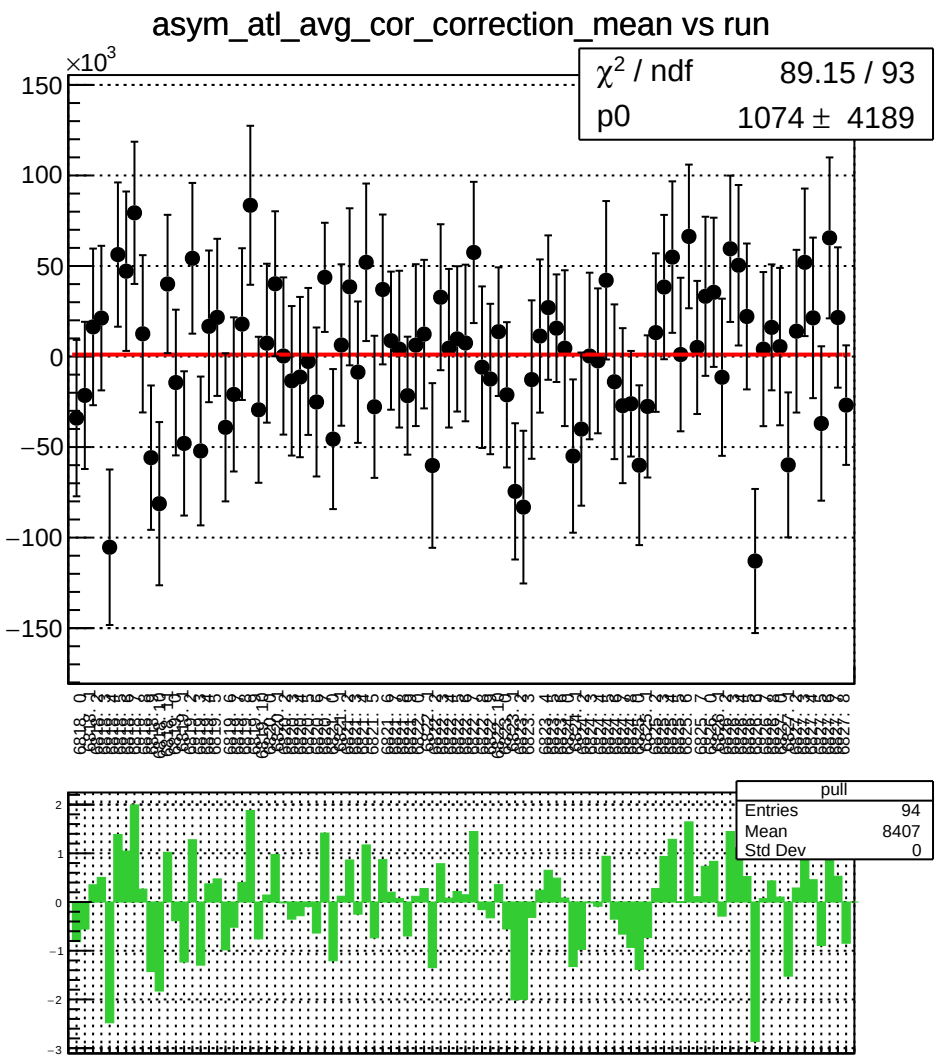

pull1D
Entries 94
Mean 0.0001495
Std Dev 0.9738
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

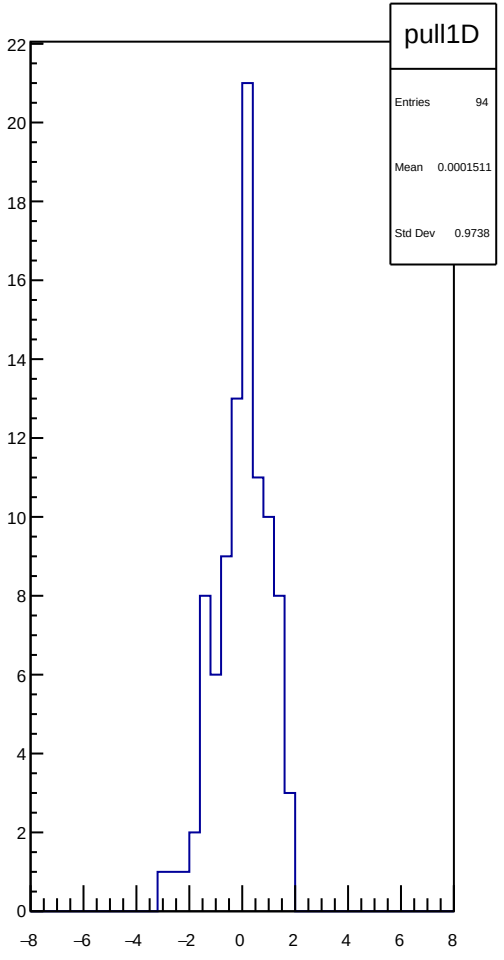

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5029 / 93
p0 3963 ± 2.962
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

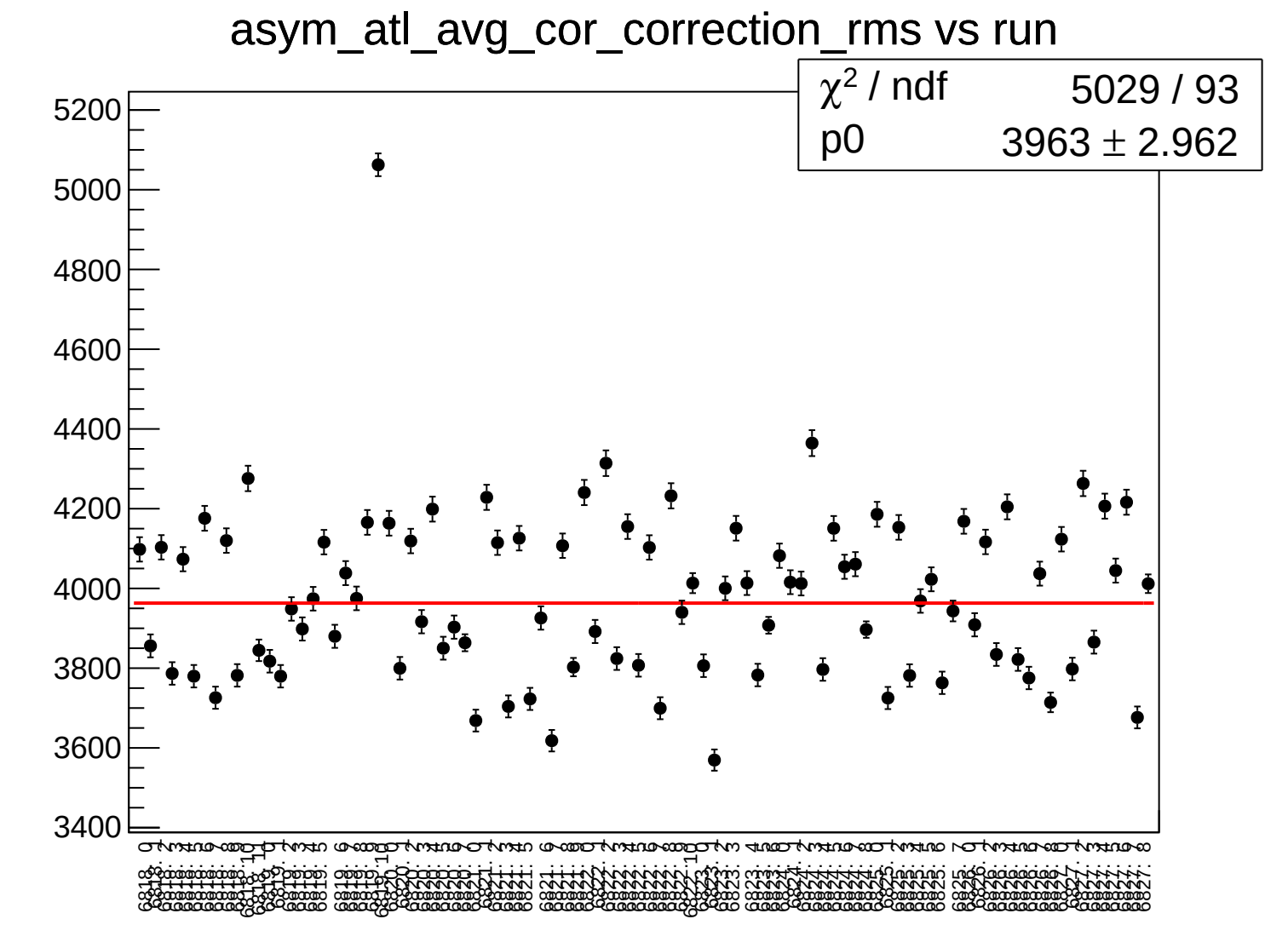

cor_asym_atl_avg_mean vs run
χ² / ndf 87.29 / 93
p0 −2131 ± 1839
pull
Entries 94
Mean 484.8
Std Dev 0

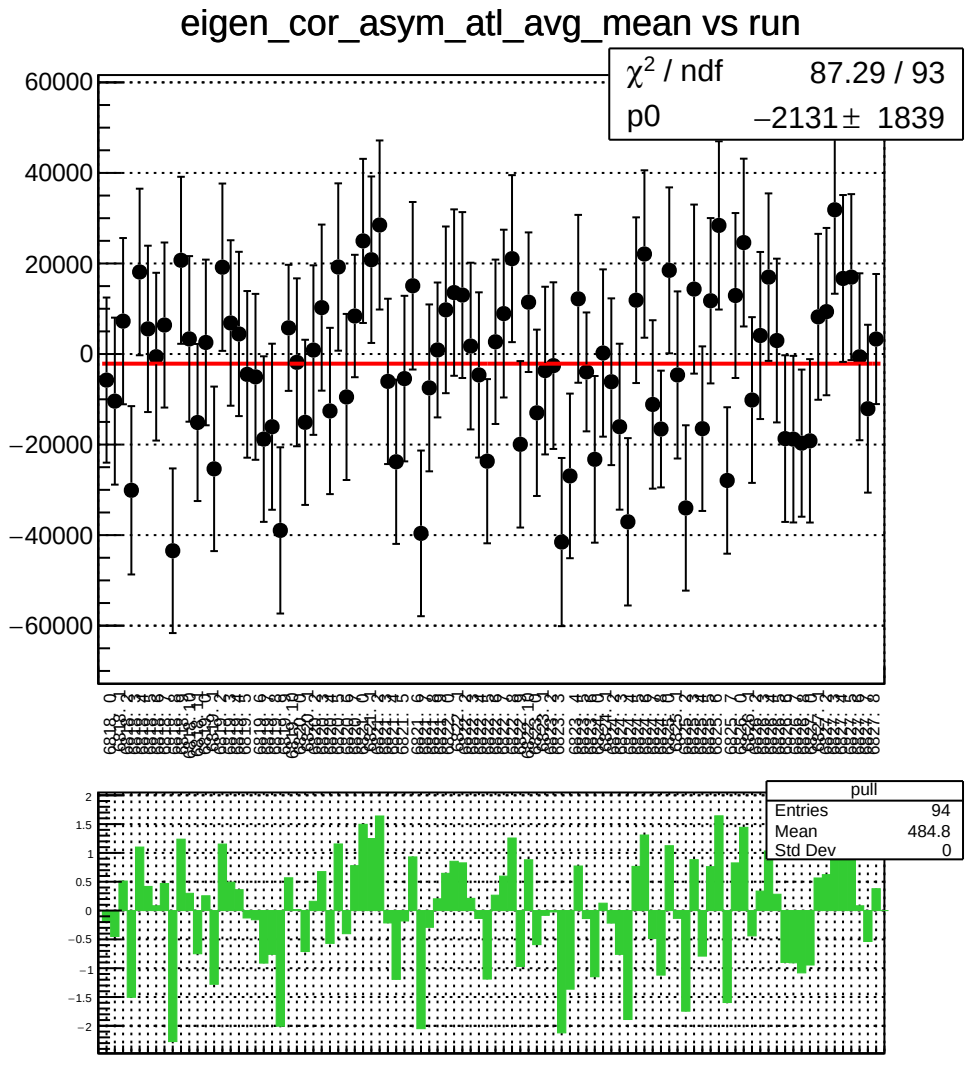

pull1D
Entries 94
Mean 0.003447
Std Dev 0.9637

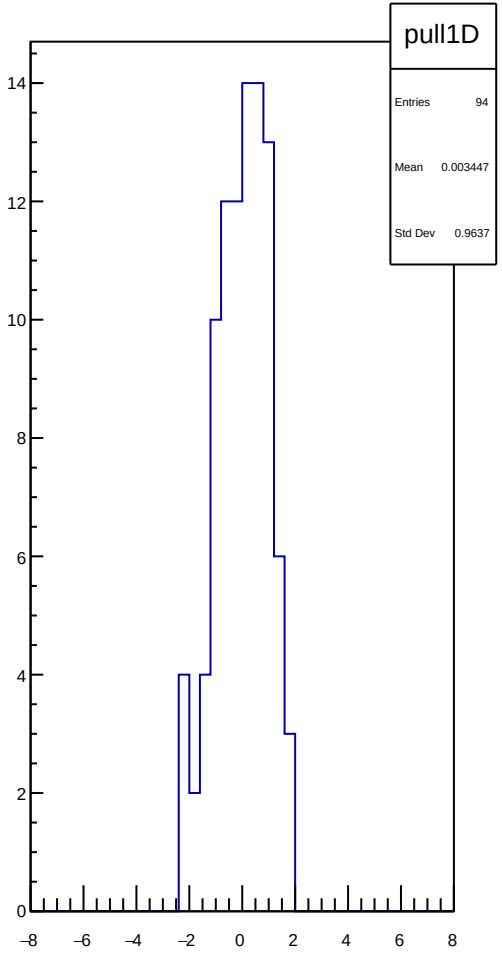

cor_asym_atl_avg_rms vs run
χ² / ndf 98.69 / 93
p0 1742 ± 1.3
1780
1760
1740
1720
1700

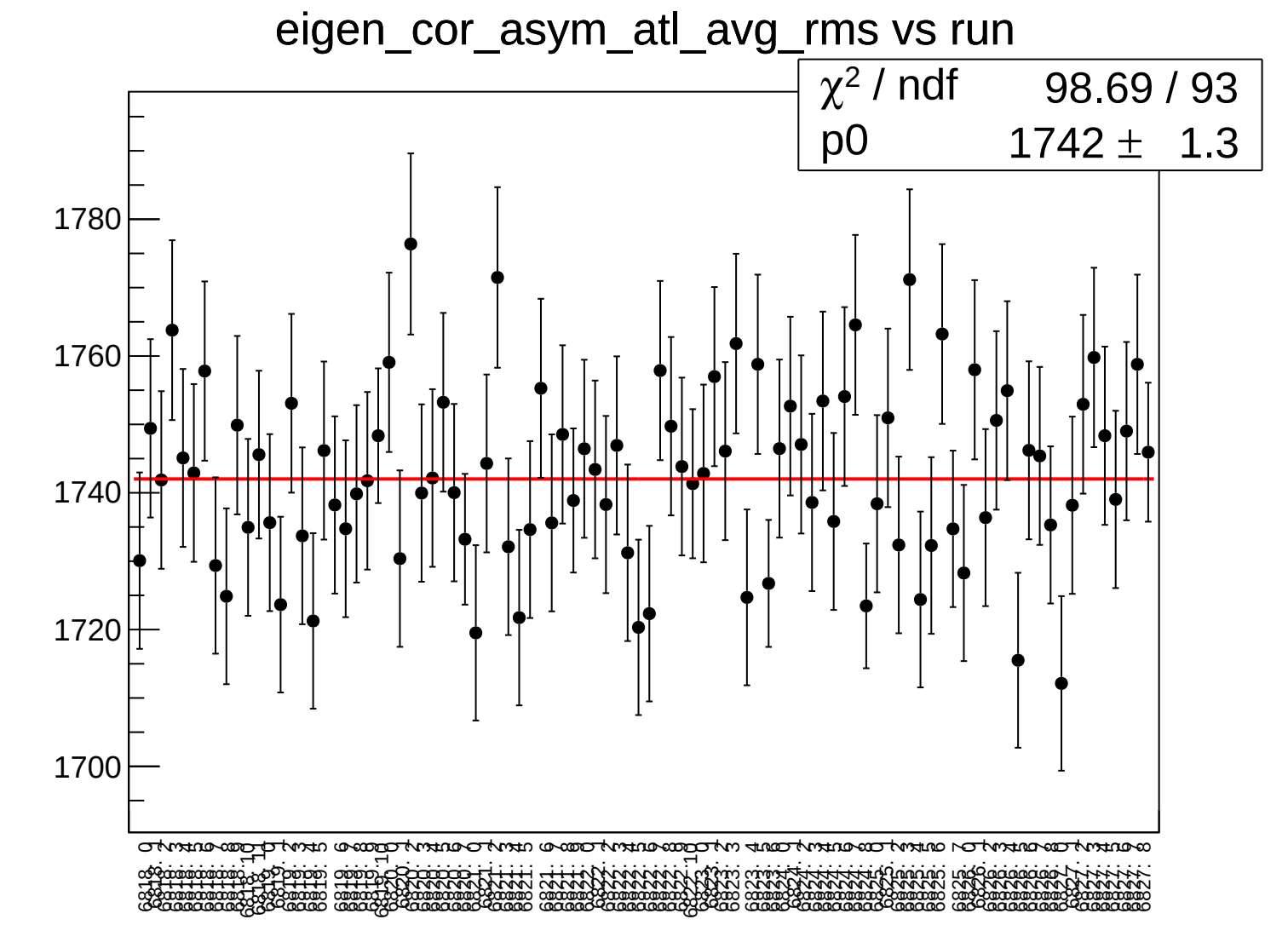

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.15 / 93
p0 1074 ± 4189
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 8407
Std Dev 0
2
1
0
−1
−2
−3

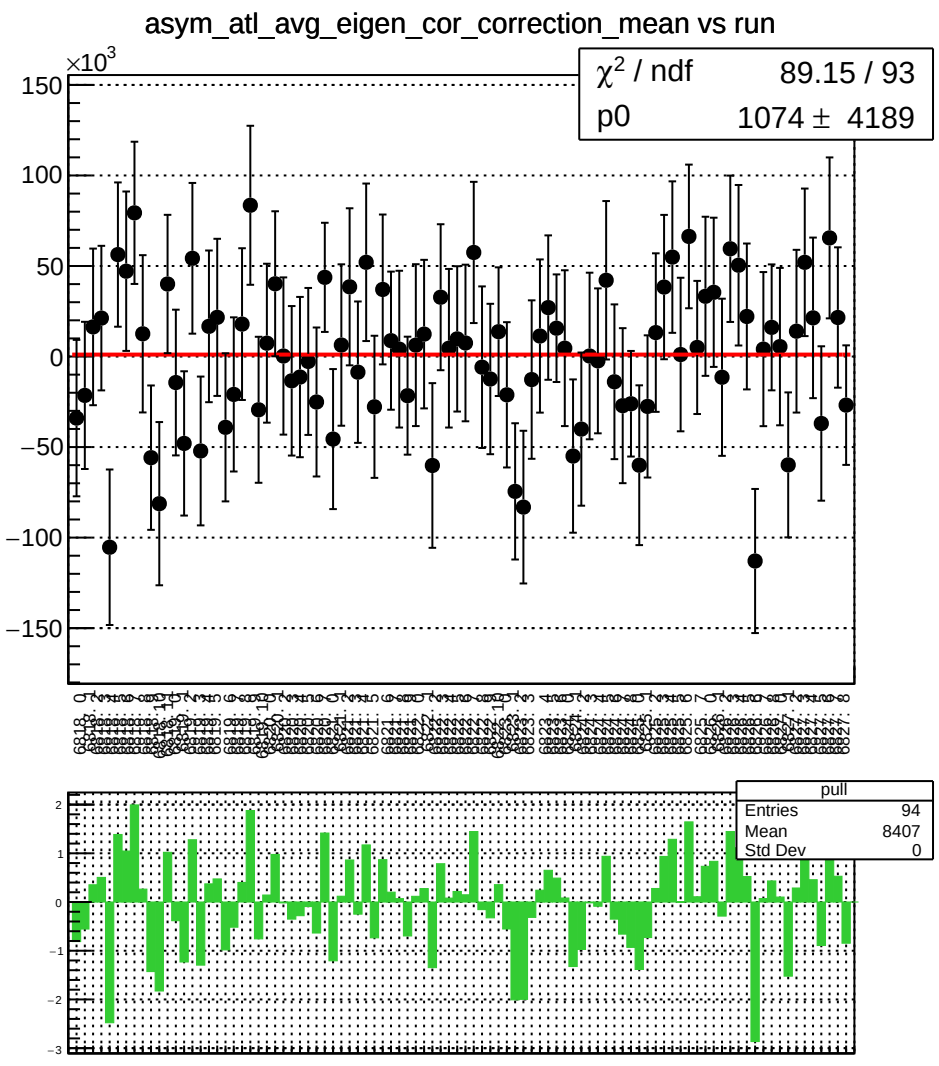

pull1D
Entries 94
Mean 0.0001511
Std Dev 0.9738
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

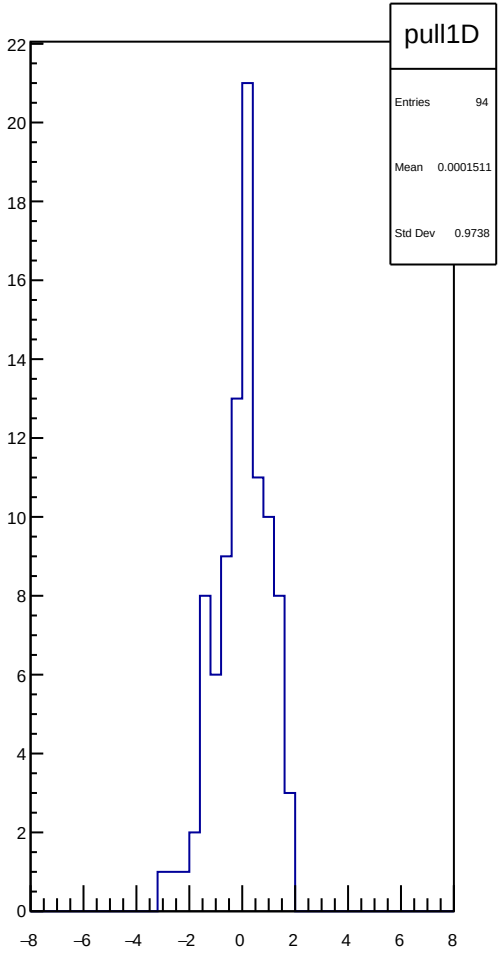

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5029 / 93
p0 3963 ± 2.962
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

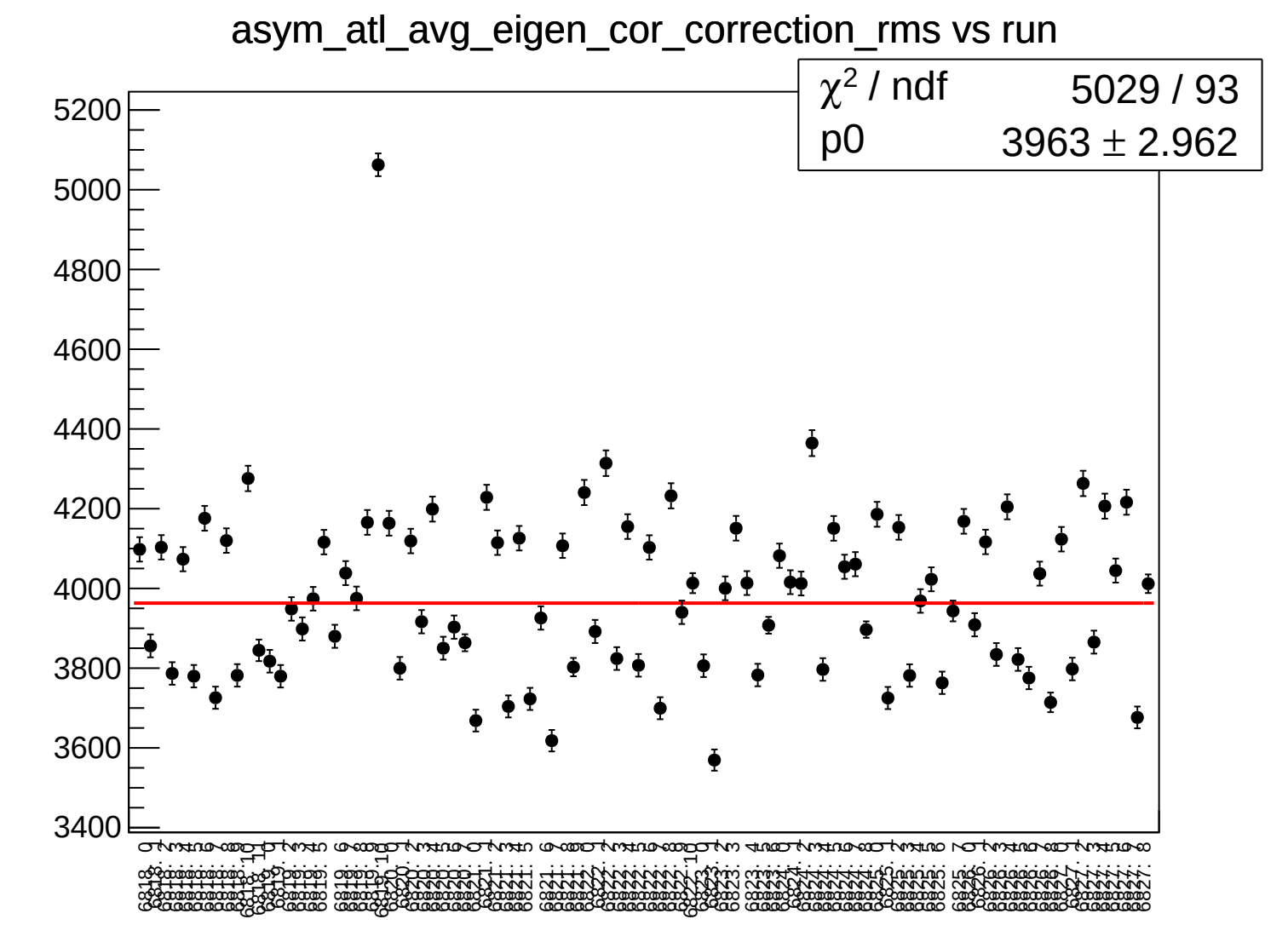

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 87.29 / 93
p0 −2131 ± 1839
pull
Entries 94
Mean 484.8
Std Dev 0

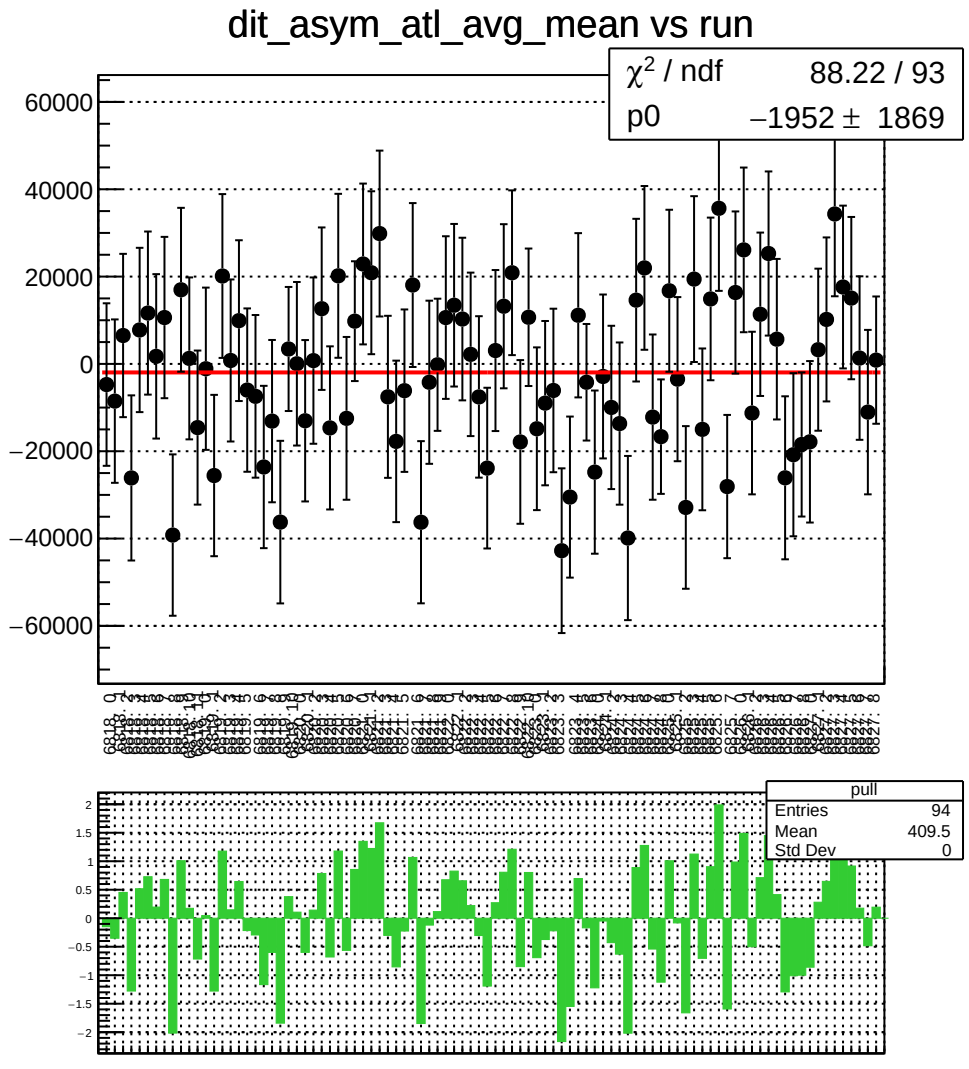

pull1D
Entries 94
Mean 0.003447
Std Dev 0.9637

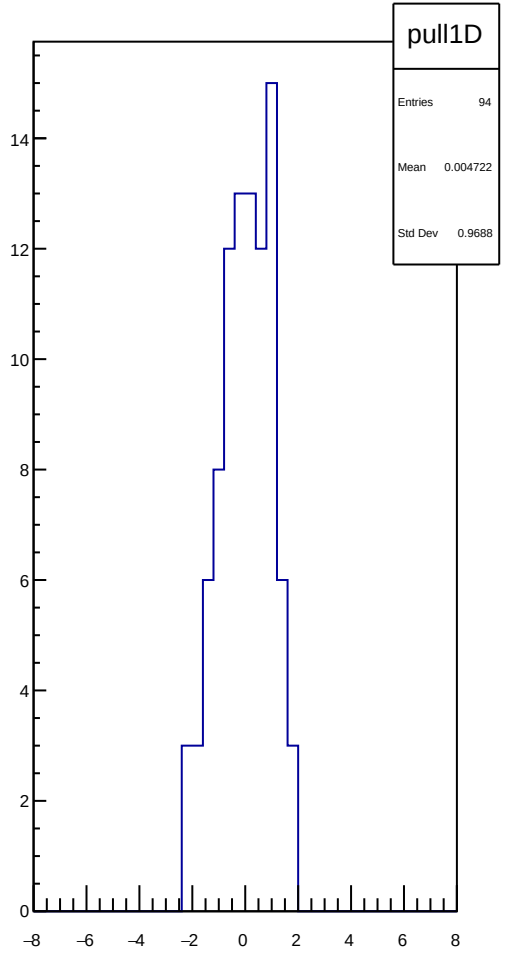

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 98.69 / 93
p0 1742 ± 1.3
1780
1760
1740
1720
1700

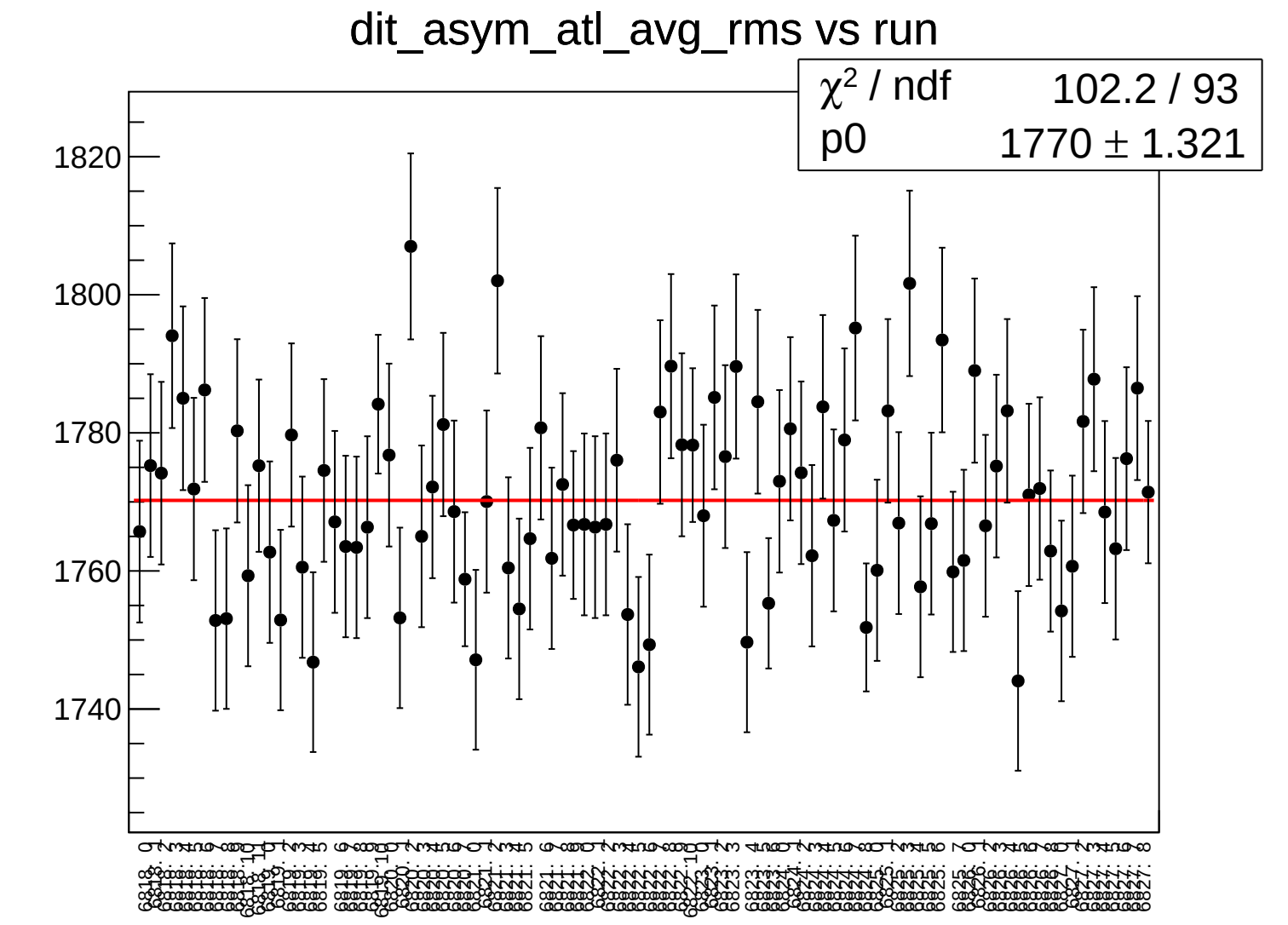

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.15 / 93
p0 1074 ± 4189
pull
Entries 94
Mean 8407
Std Dev 0

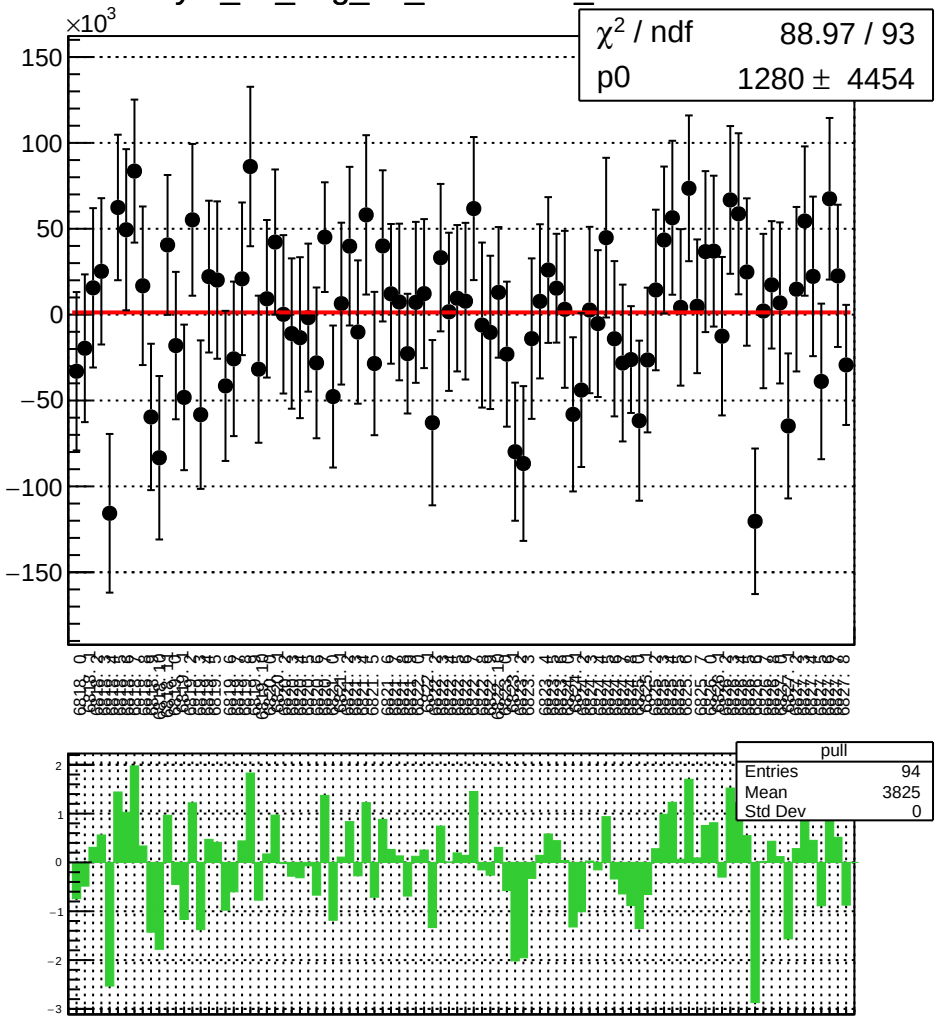

pull1D
Entries 94
Mean 0.0001511
Std Dev 0.9738

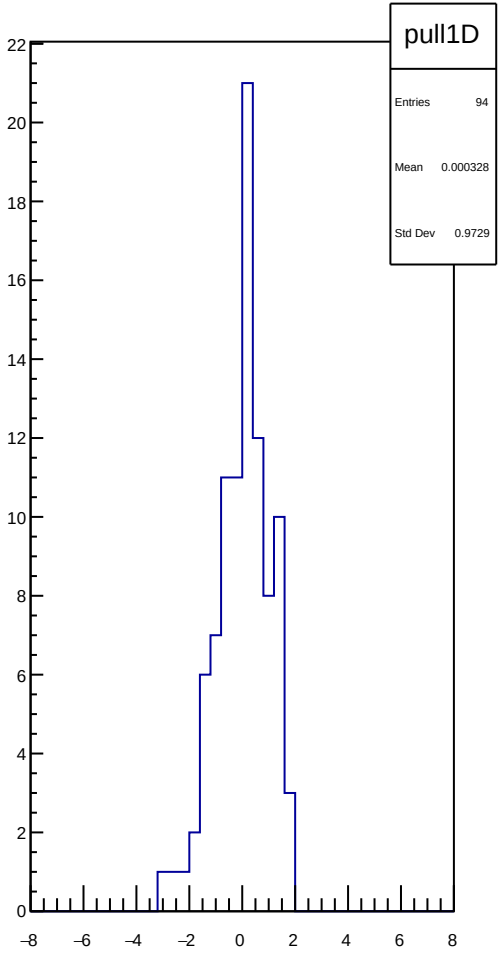

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 5029 / 93
p0 3963 ± 2.962
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

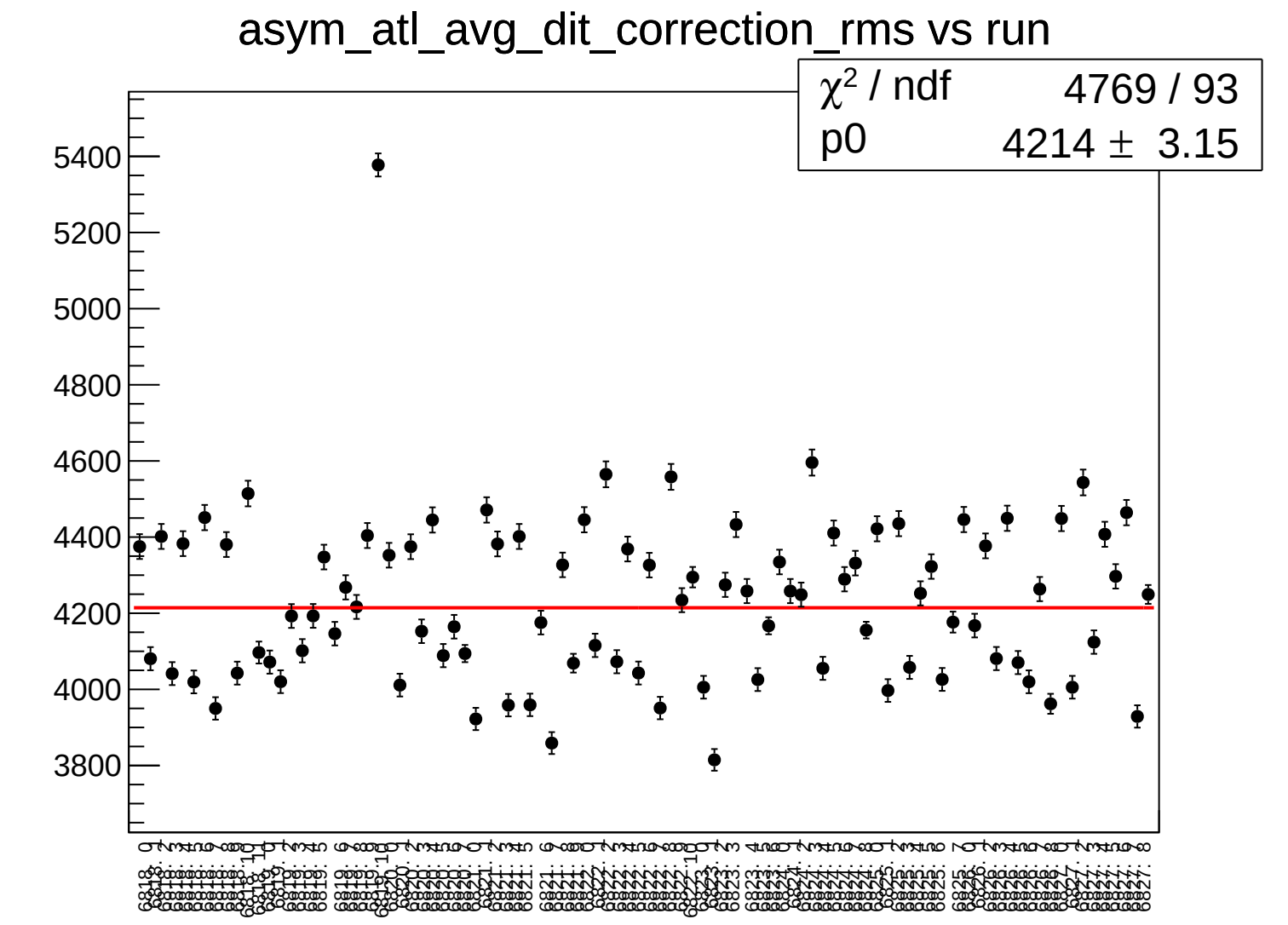

dit_asym_atl_avg_mean vs run
χ² / ndf 88.22 / 93
p0 −1952 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 409.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

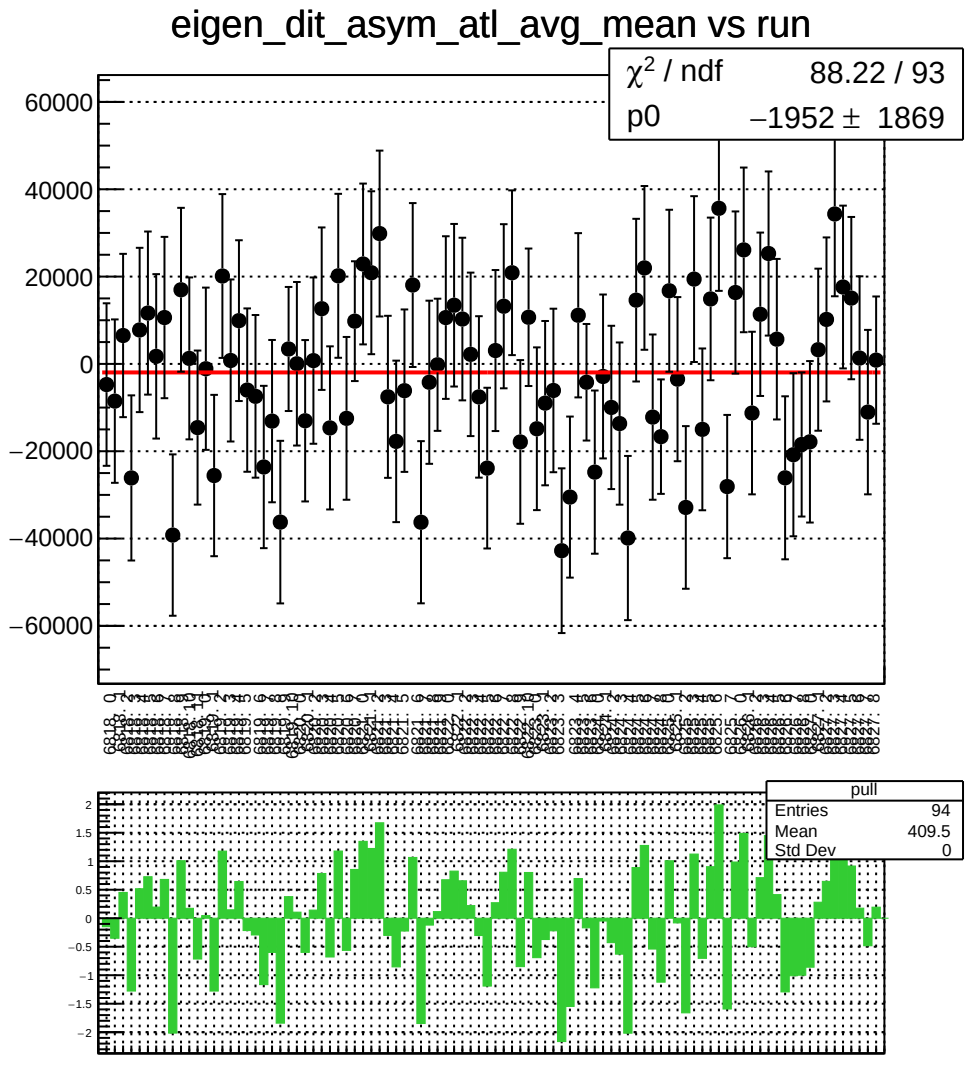

pull1D
Entries 94
Mean 0.004722
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

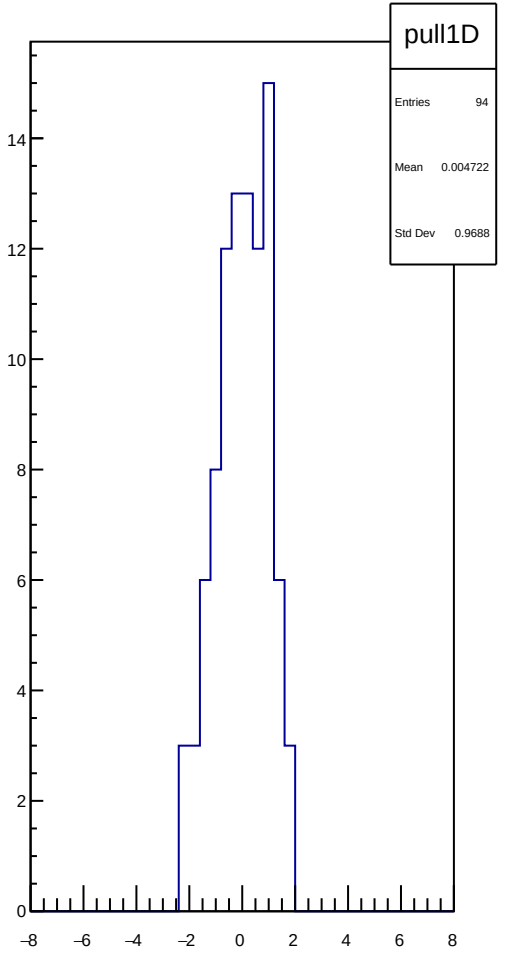

dit_asym_atl_avg_rms vs run
χ² / ndf 102.2 / 93
p0 1770 ± 1.321
1820
1800
1780
1760
1740

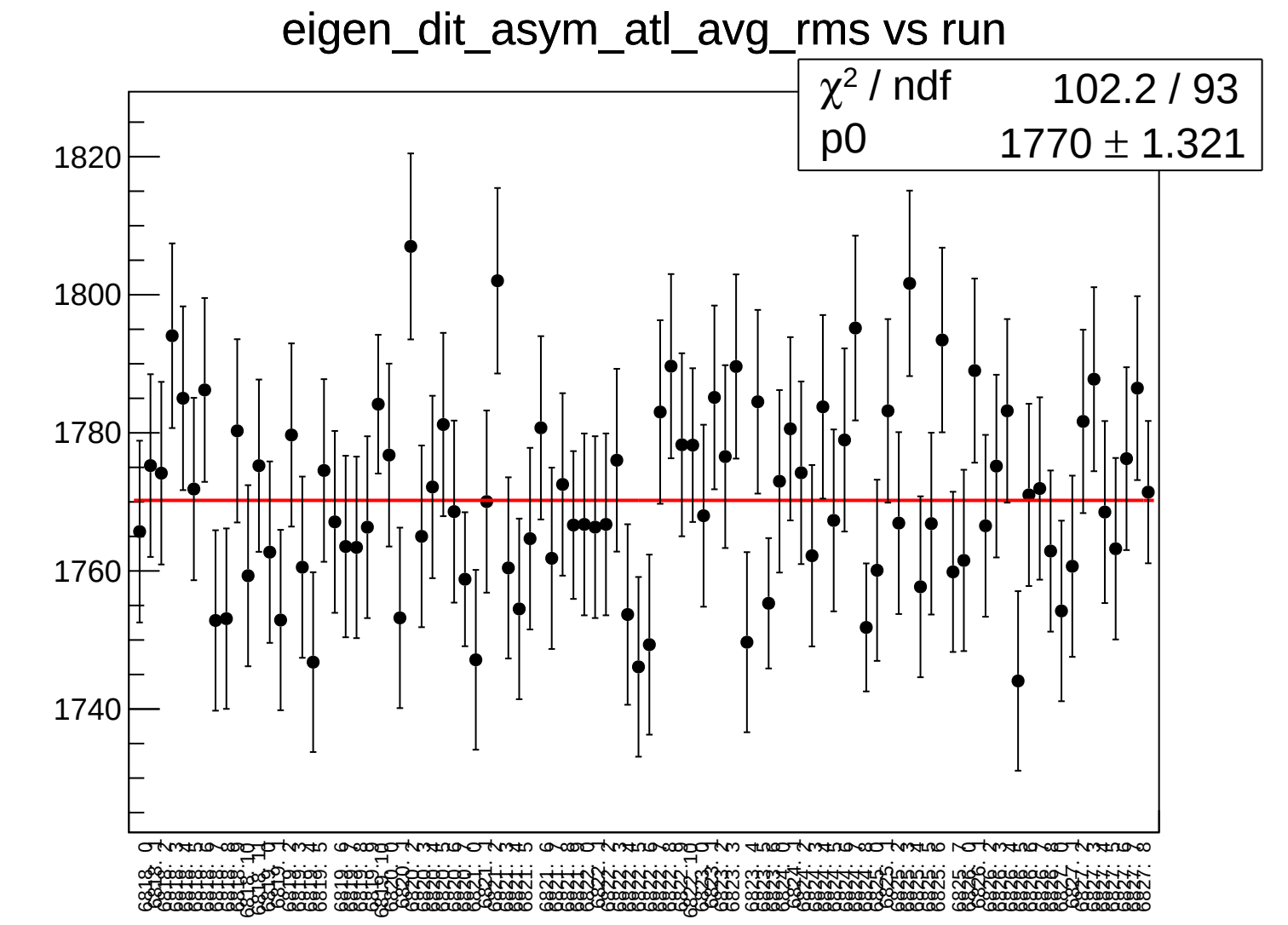

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 88.97 / 93
p0 1280 ± 4454
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 3825
Std Dev 0
2
1
0
−1
−2
−3

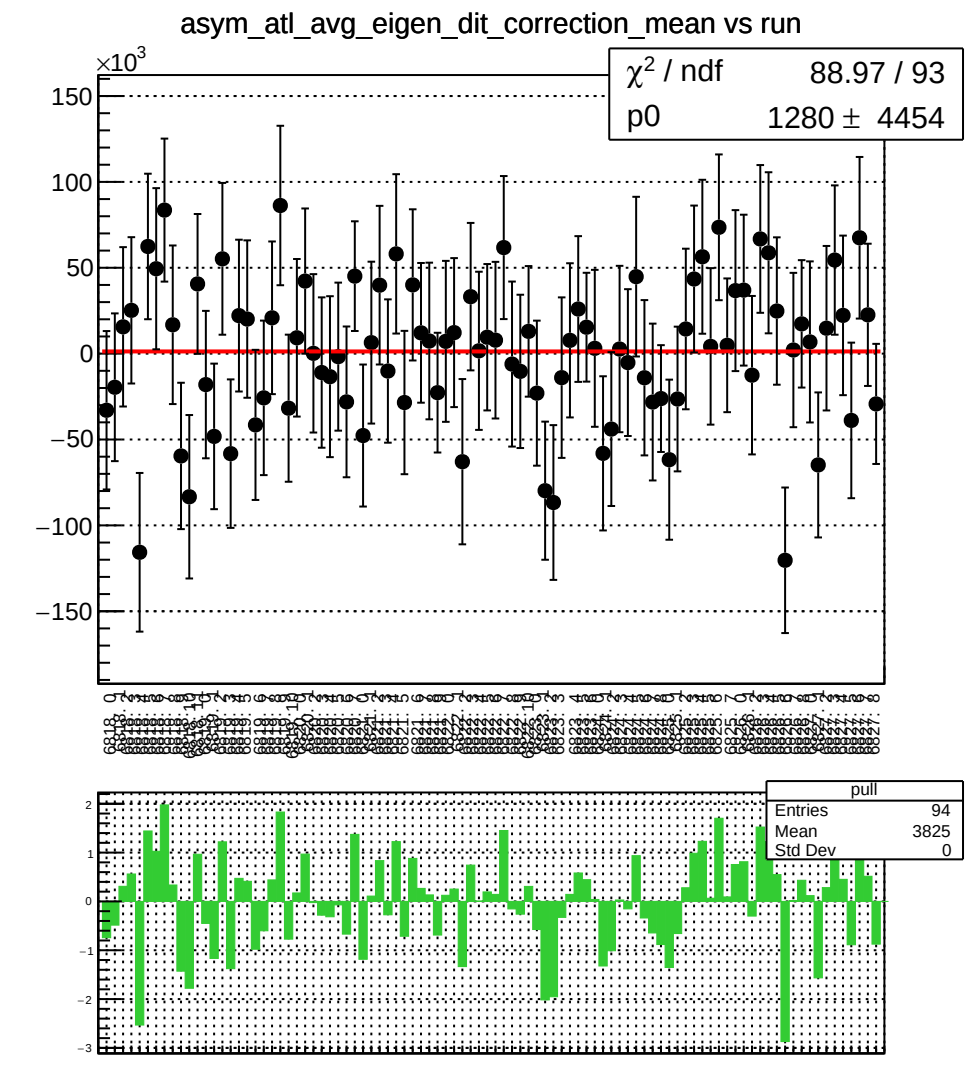

pull1D
Entries 94
Mean 0.000328
Std Dev 0.9729
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

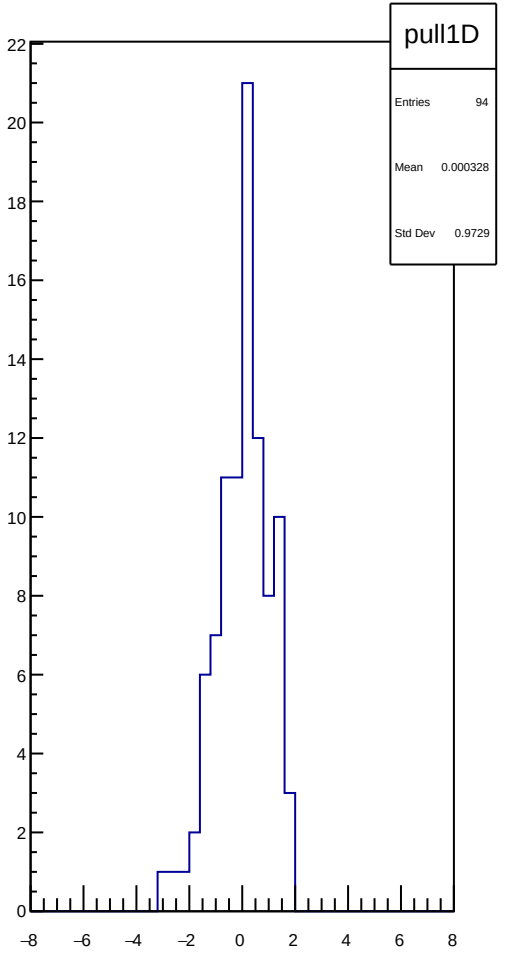

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 4769 / 93
p0 4214 ± 3.15
5400
5200
5000
4800
4600
4400
4200
4000
3800

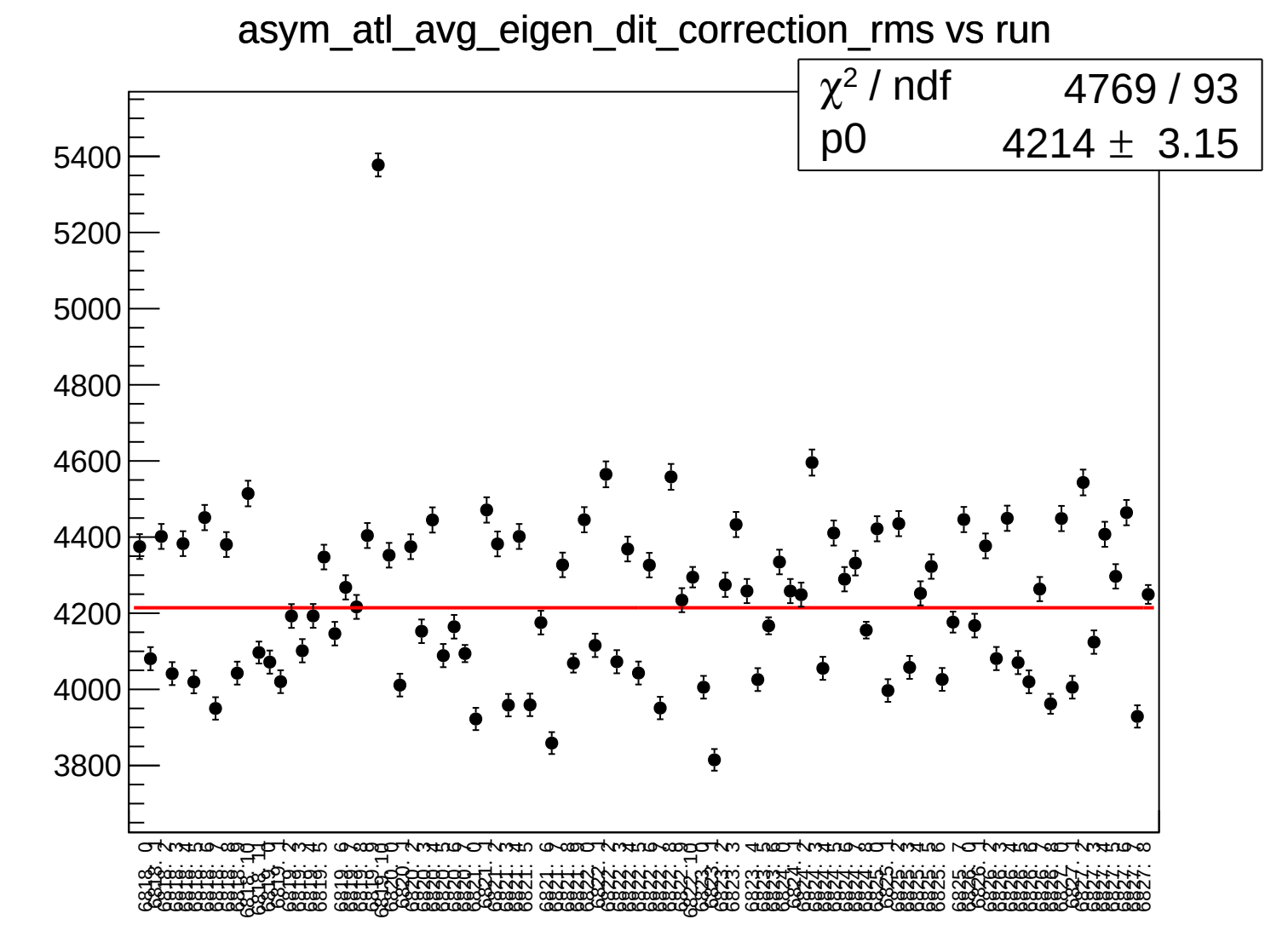

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 88.22 / 93
p0 −1952 ± 1869
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 409.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

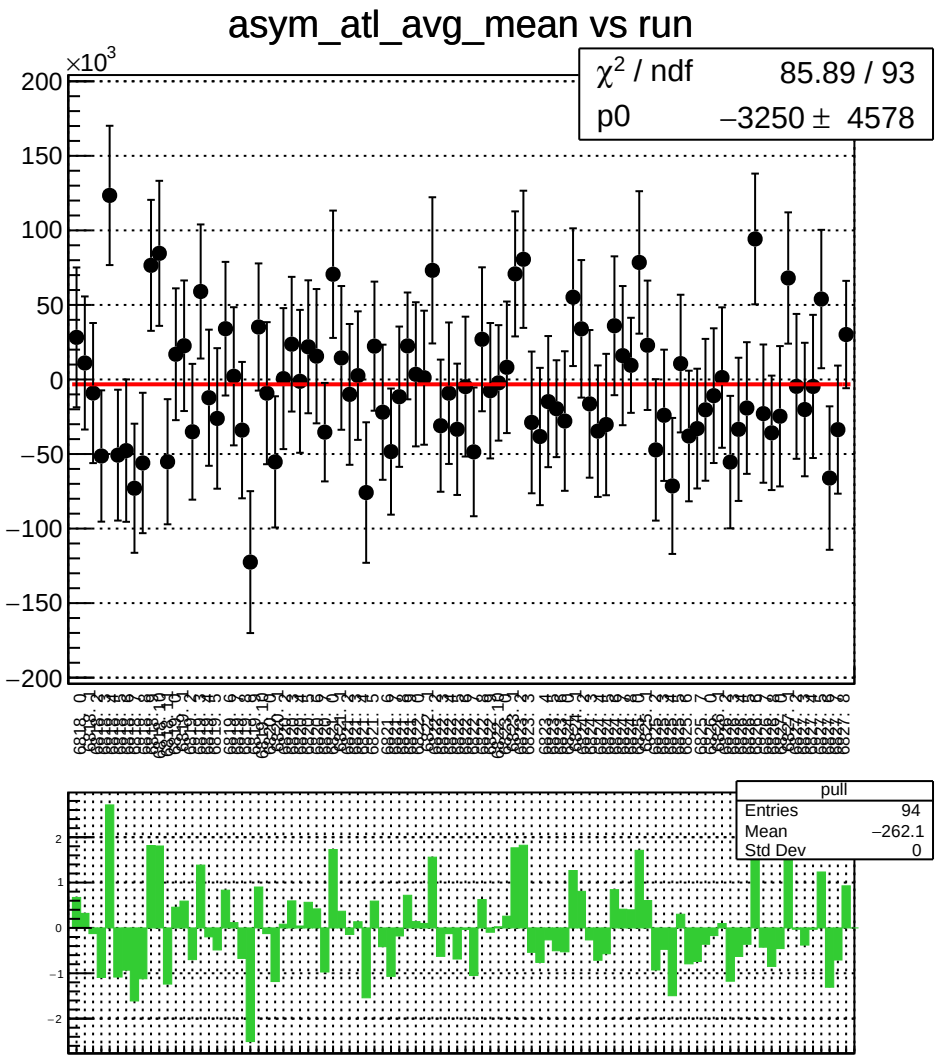

pull1D
Entries 94
Mean 0.004722
Std Dev 0.9688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

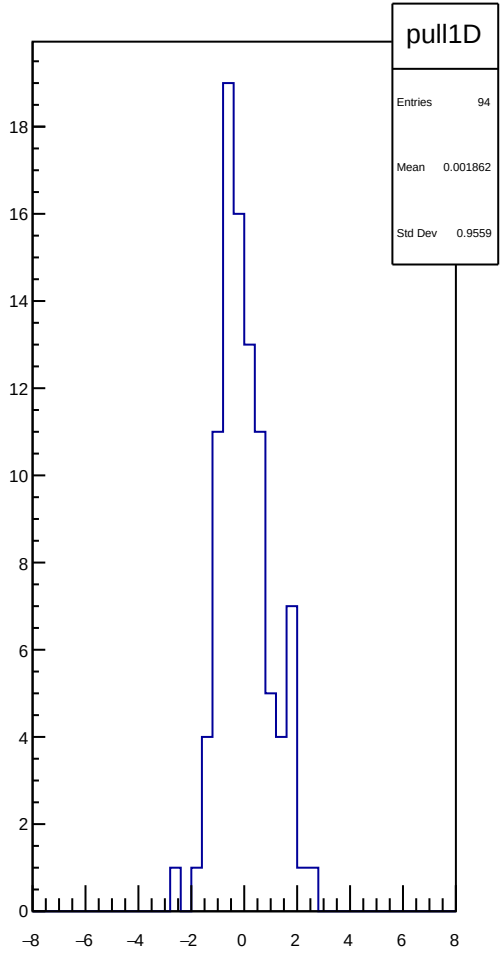

eigen_dit_asym_atl_avg_rms vs run
χ^2 / ndf 102.2 / 93
p0 1770 ± 1.321
1820
1800
1780
1760
1740

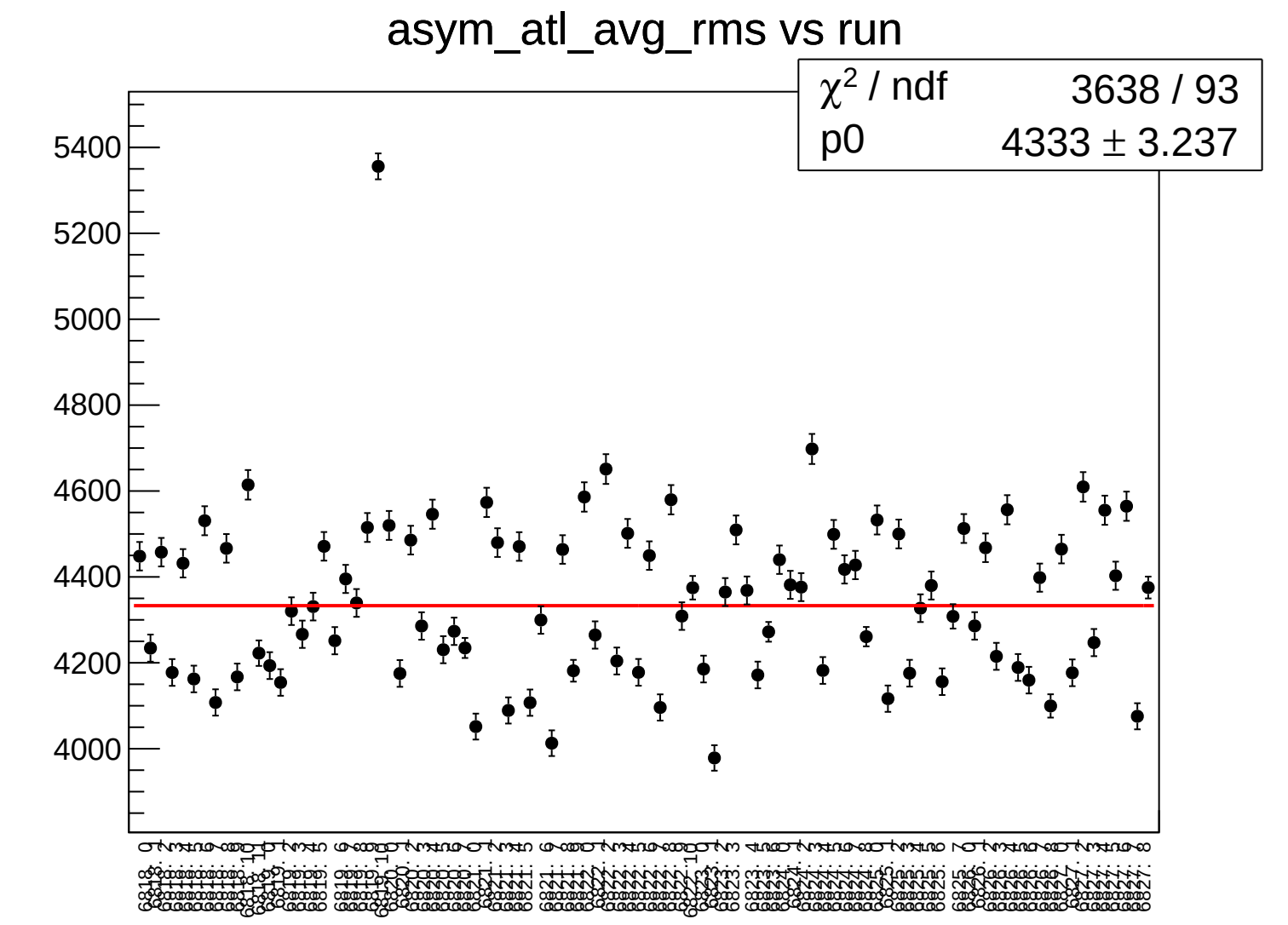

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.97 / 93
p0 1280 ± 4454
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 3825
Std Dev 0
2
1
0
−1
−2
−3

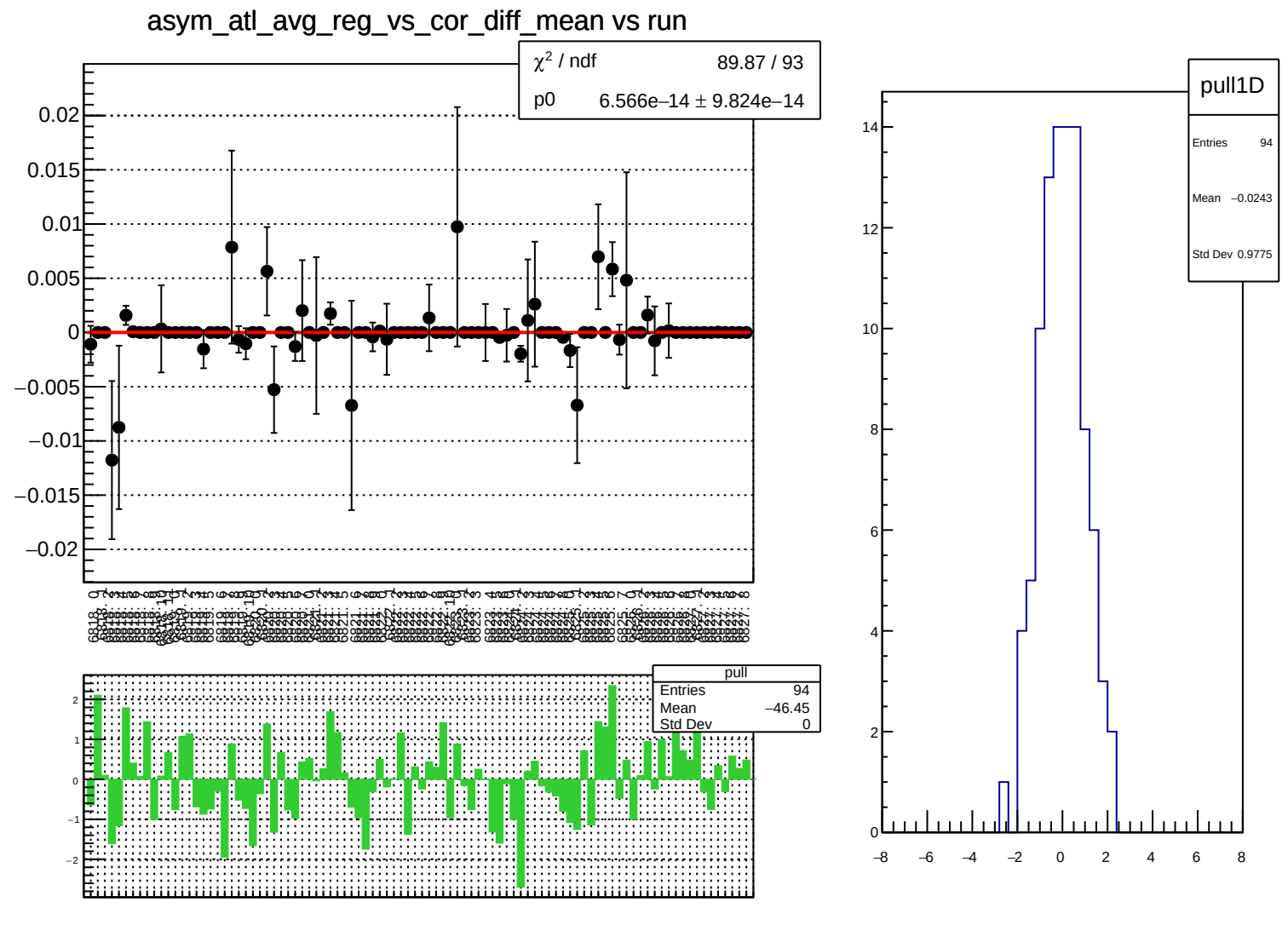

pull1D
Entries 94
Mean 0.000328
Std Dev 0.9729
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

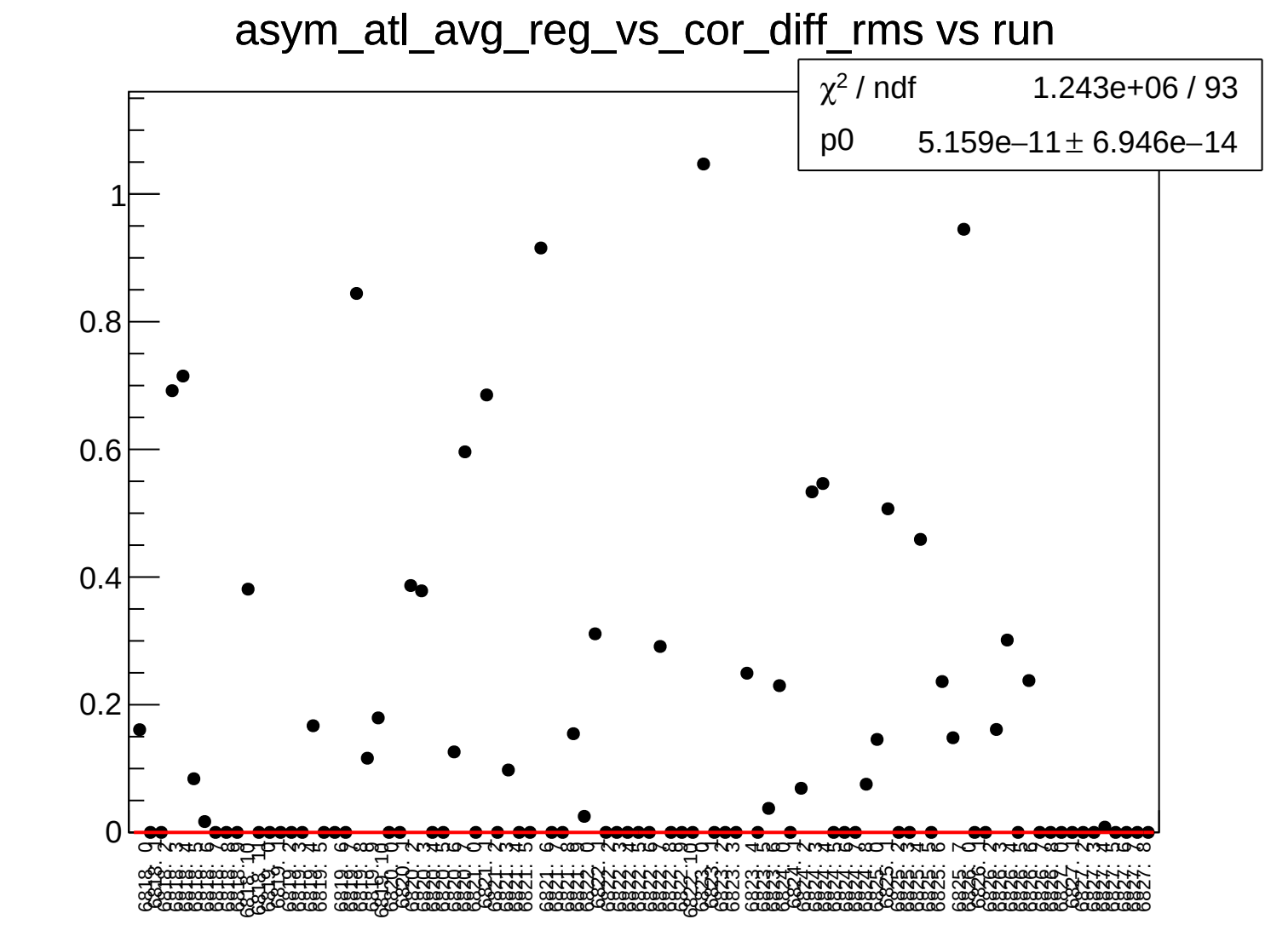

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4769 / 93
p0 4214 ± 3.15
5400
5200
5000
4800
4600
4400
4200
4000
3800

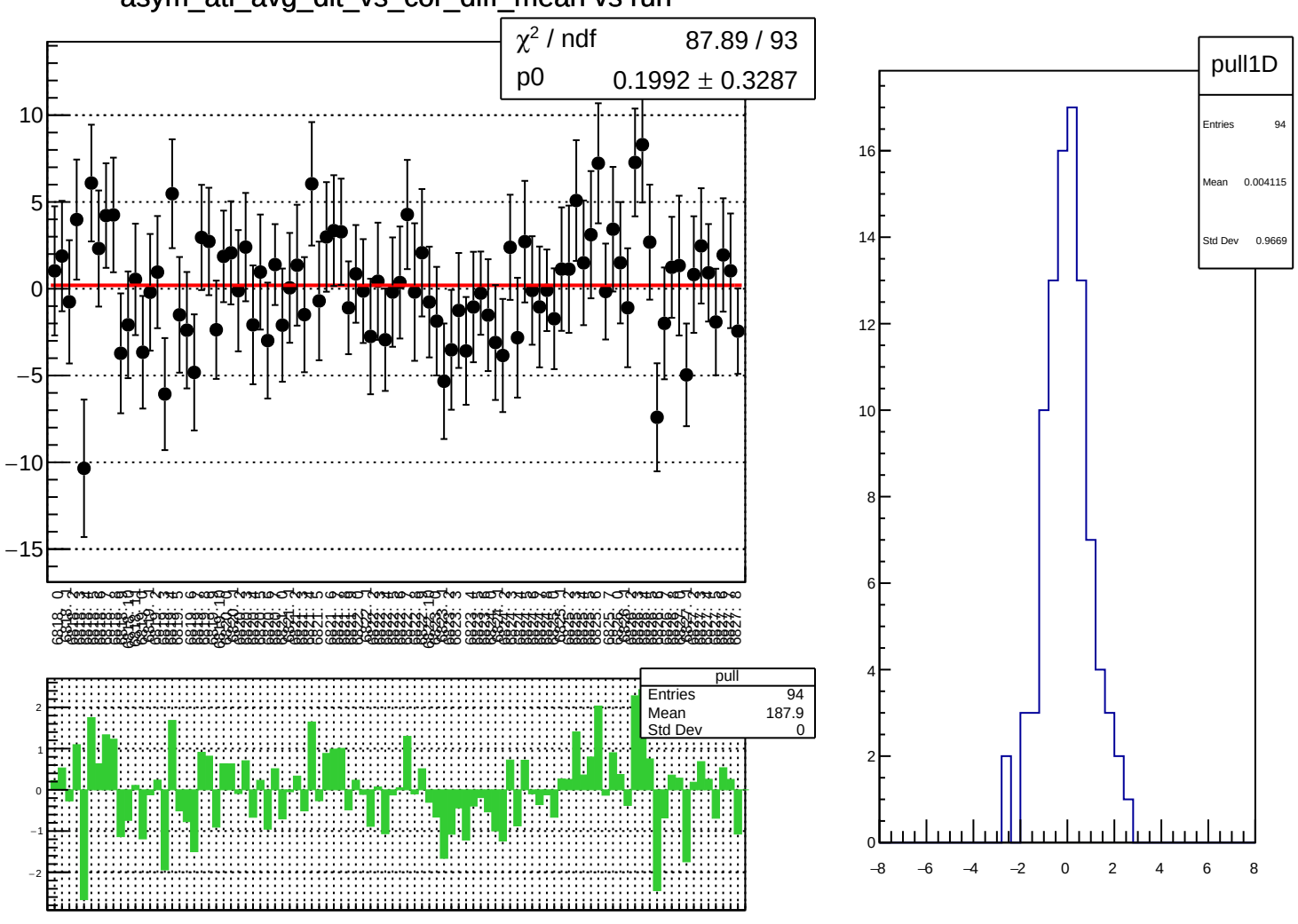

asym_atl_avg_mean vs run
χ^2 / ndf 85.89 / 93
p0 −3250 ± 4578
×10^3
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −262.1
Std Dev 0
2
1
0
−1
−2

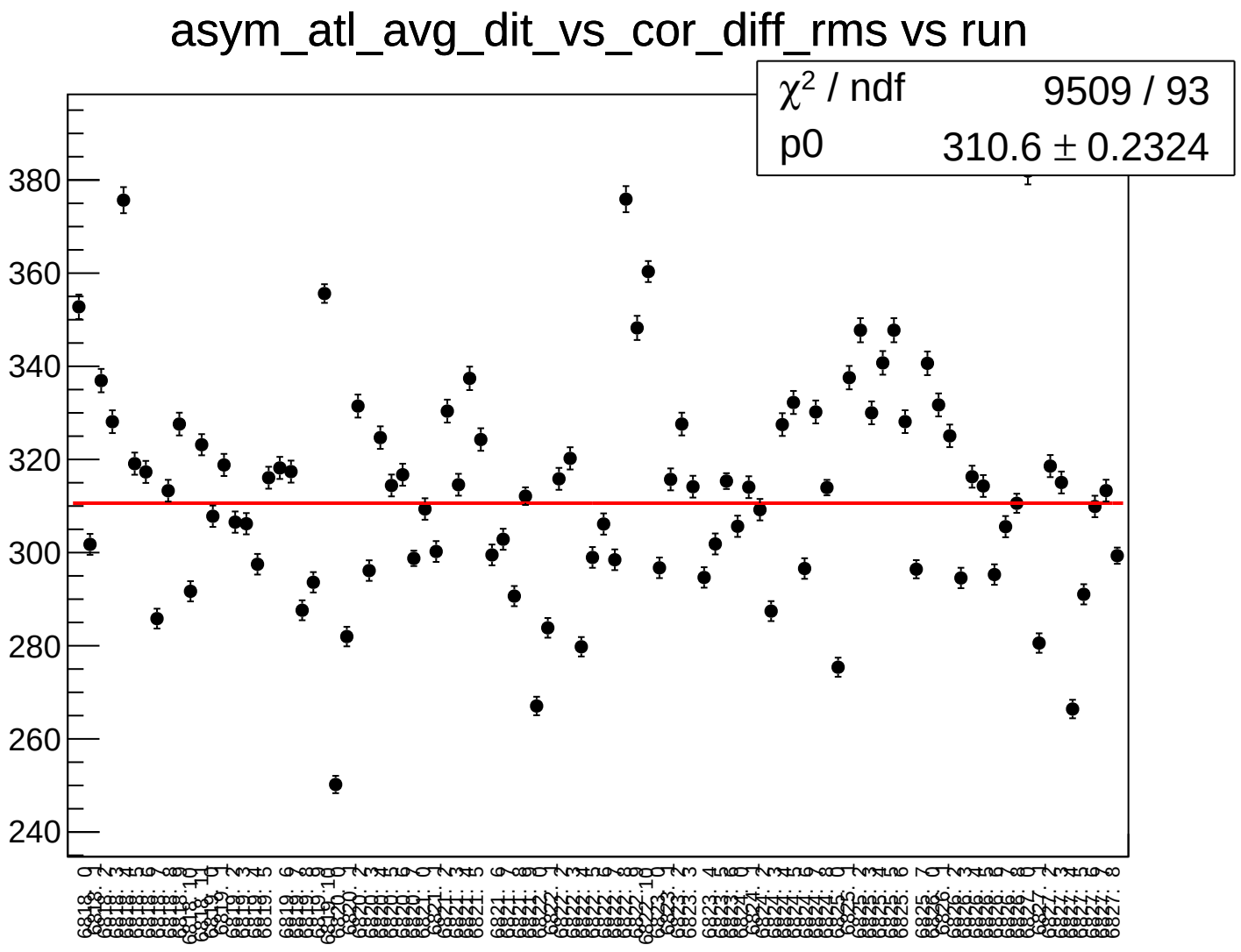

pull1D
Entries 94
Mean 0.001862
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

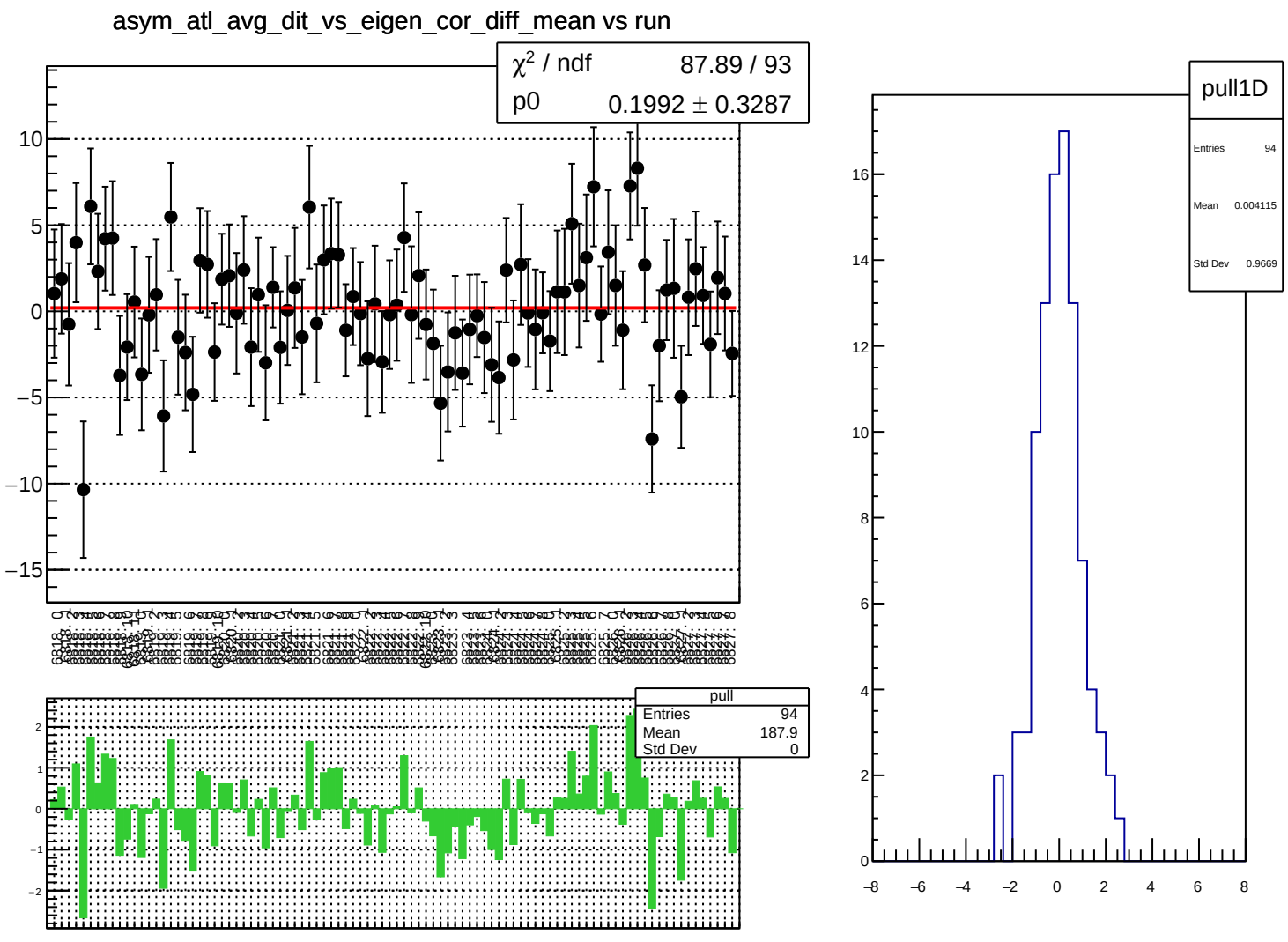

asym_atl_avg_rms vs run
χ^2 / ndf 3638 / 93
p0 4333 ± 3.237
5400
5200
5000
4800
4600
4400
4200
4000

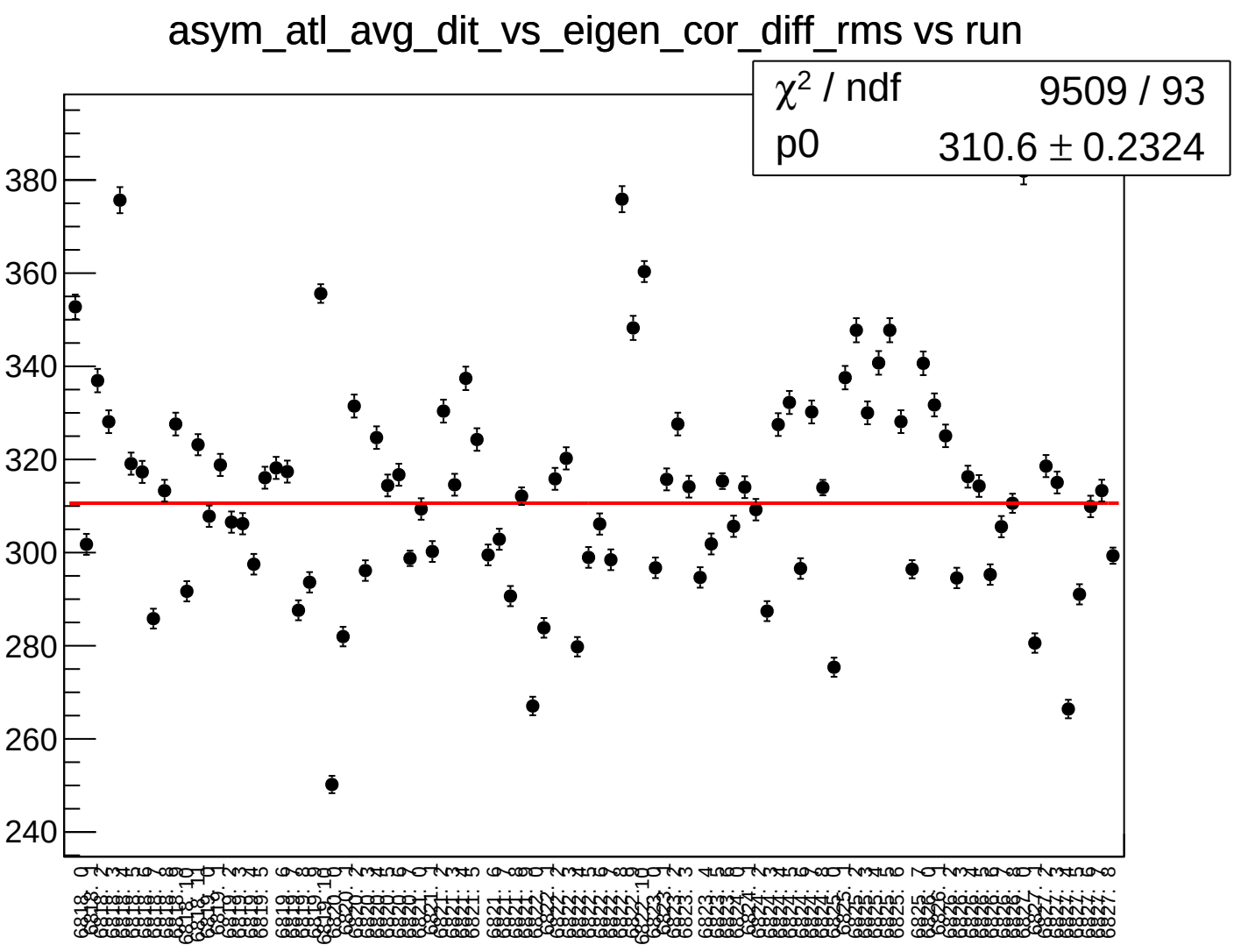

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.87 / 93
p0 6.566e−14 ± 9.824e−14
pull
Entries 94
Mean −46.45
Std Dev 0
pull1D
Entries 94
Mean −0.0243
Std Dev 0.9775

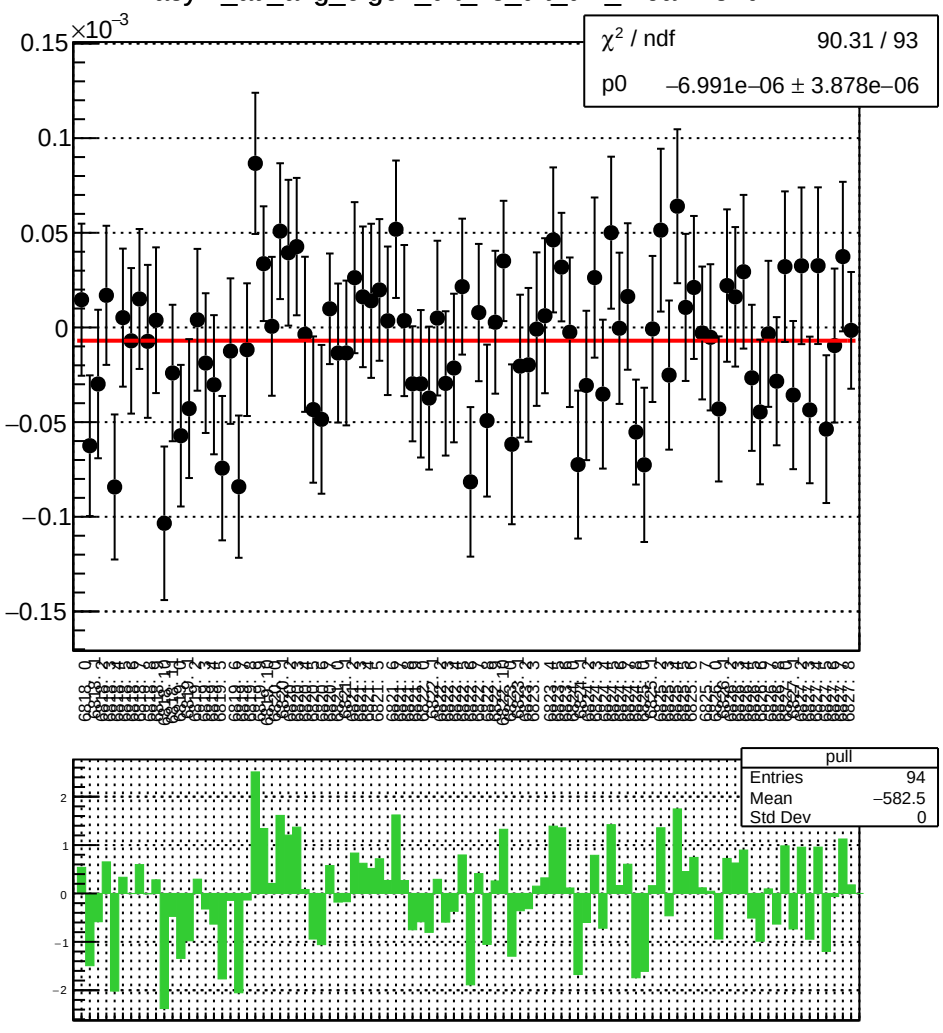

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.243e+06 / 93
p0 5.159e−11 ± 6.946e−14
1
0.8
0.6
0.4
0.2
0

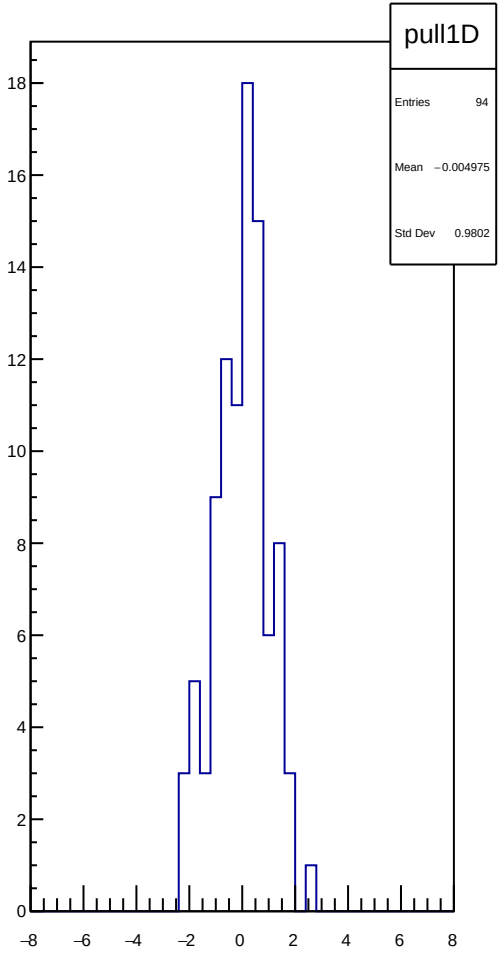

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 93
p0 0.1992 ± 0.3287
pull
Entries 94
Mean 187.9
Std Dev 0
pull1D
Entries 94
Mean 0.004115
Std Dev 0.9669

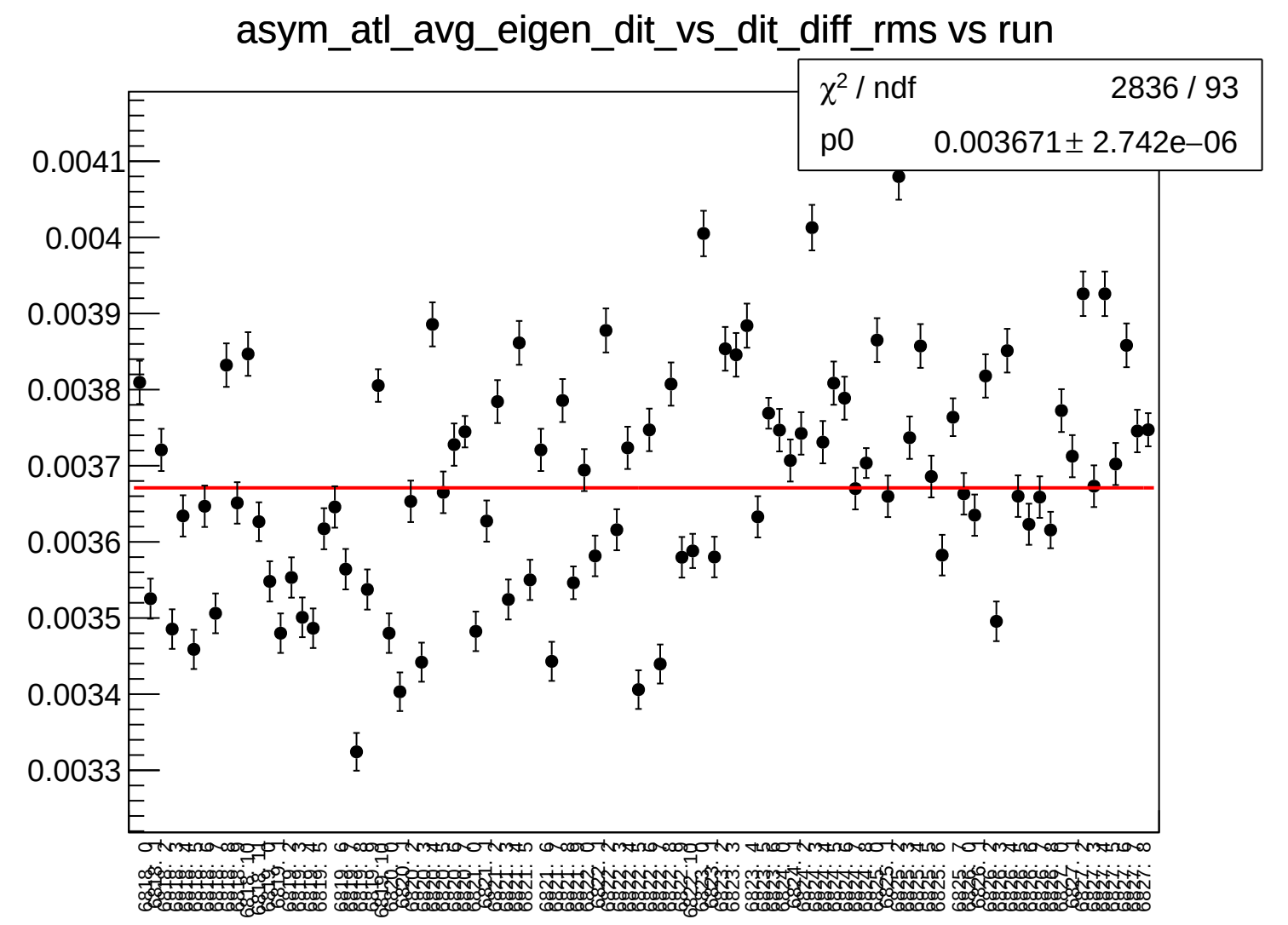

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9509 / 93
p0 310.6 ± 0.2324
380
360
340
320
300
280
260
240

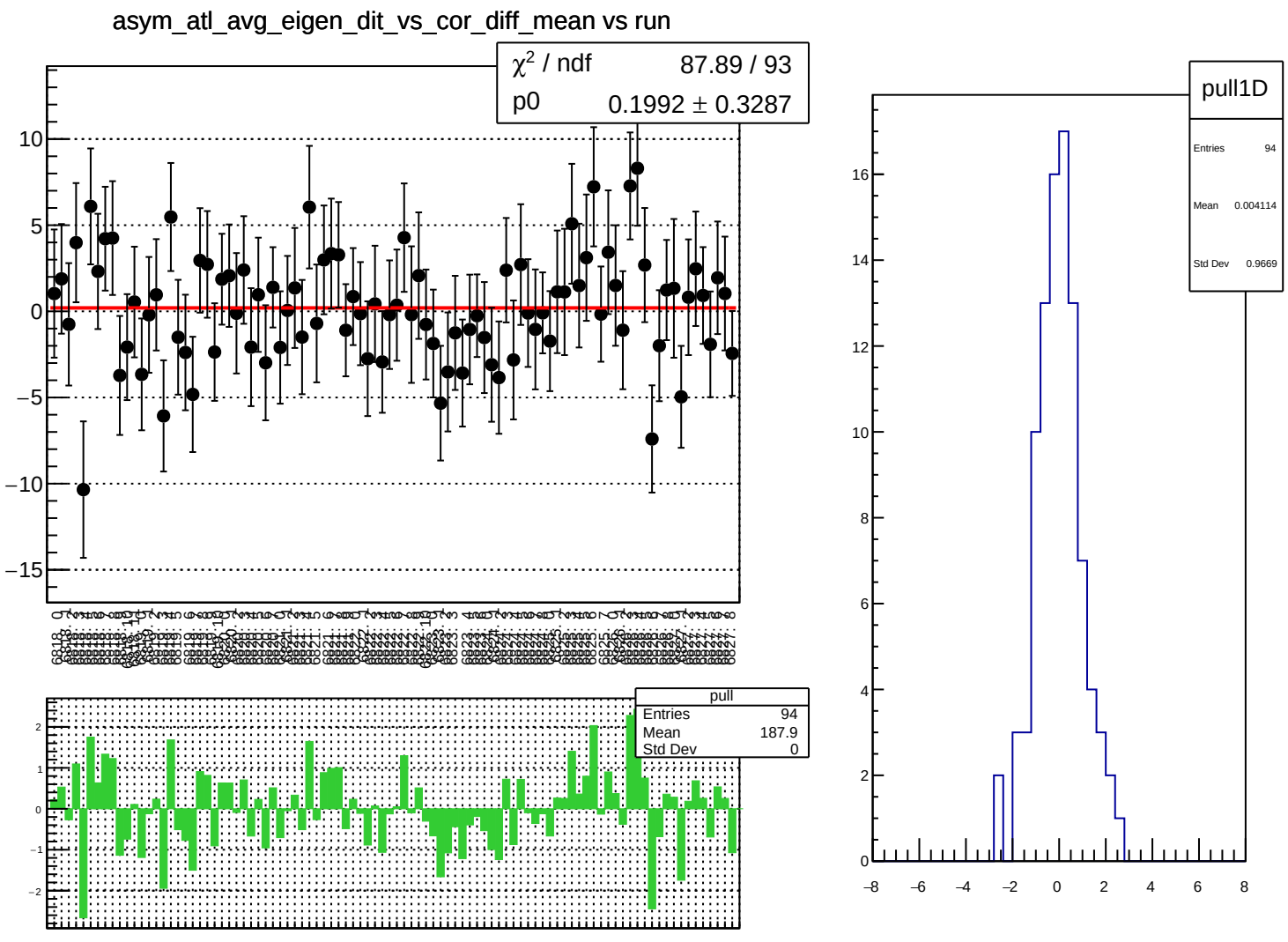

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.89 / 93
p0 0.1992 ± 0.3287
pull
Entries 94
Mean 187.9
Std Dev 0
pull1D
Entries 94
Mean 0.004115
Std Dev 0.9669

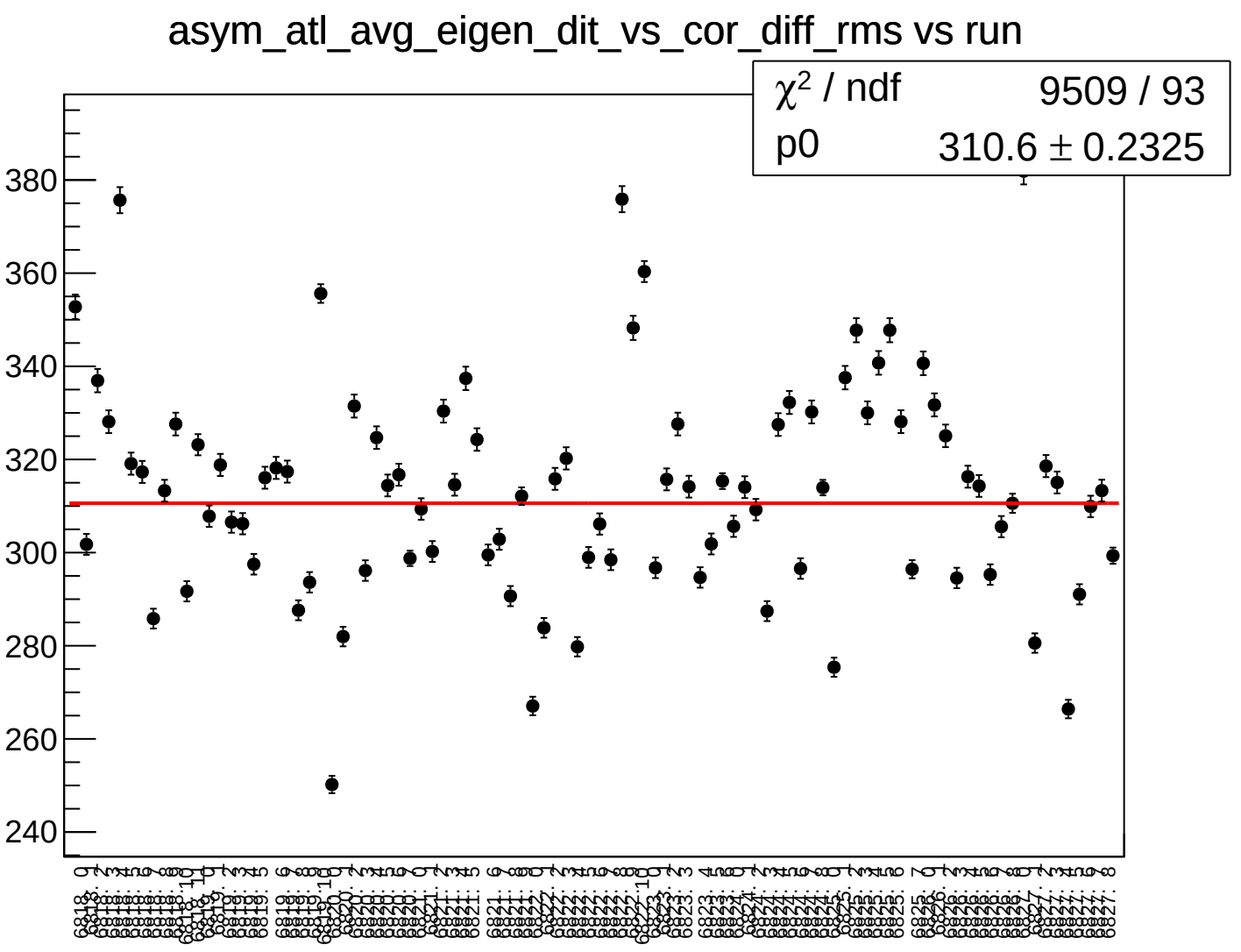

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9509 / 93
p0 310.6 ± 0.2324
380
360
340
320
300
280
260
240

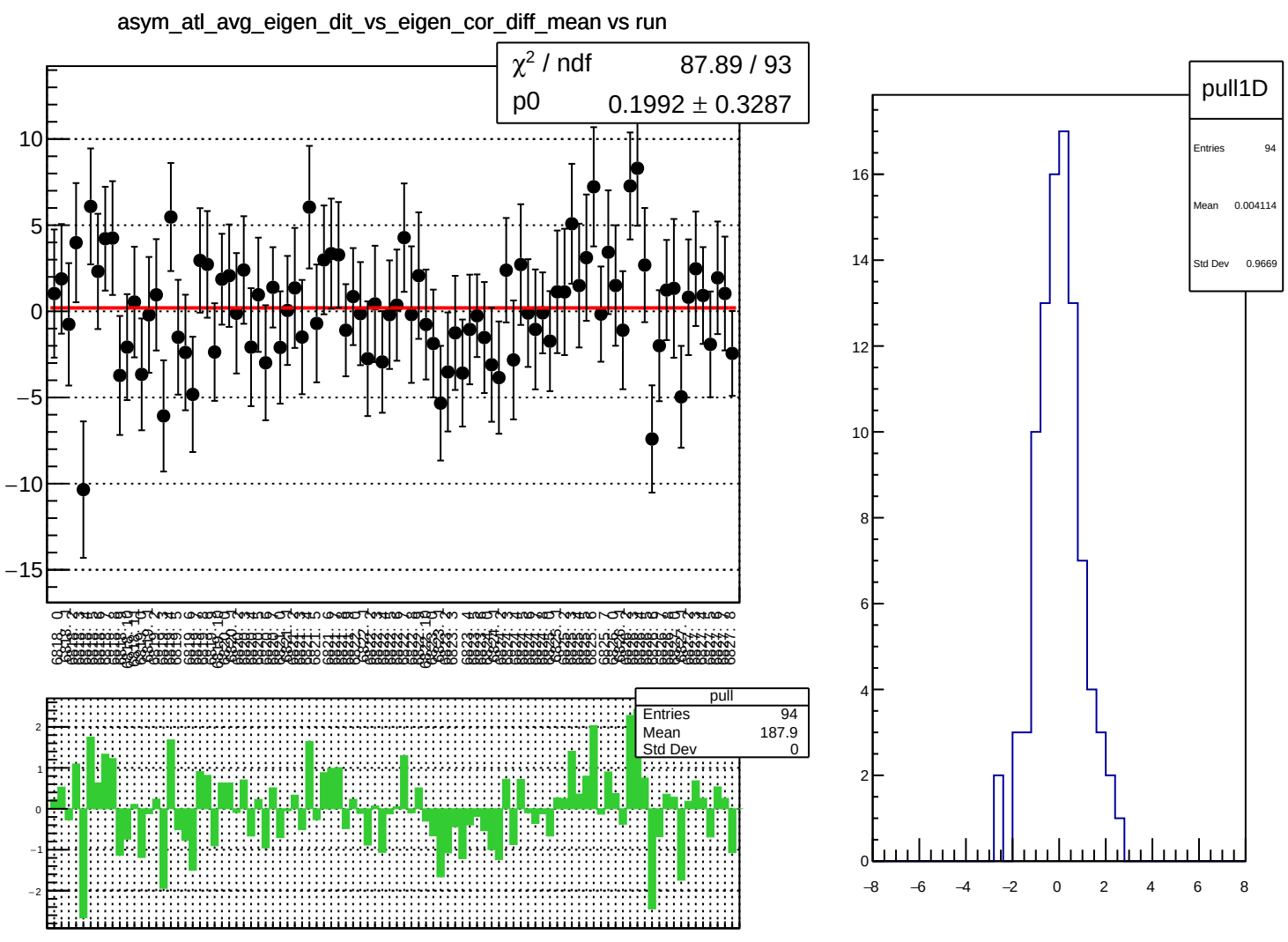

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 90.31 / 93
p0 −6.991e−06 ± 3.878e−06
×10⁻³
pull
Entries 94
Mean −582.5
Std Dev 0

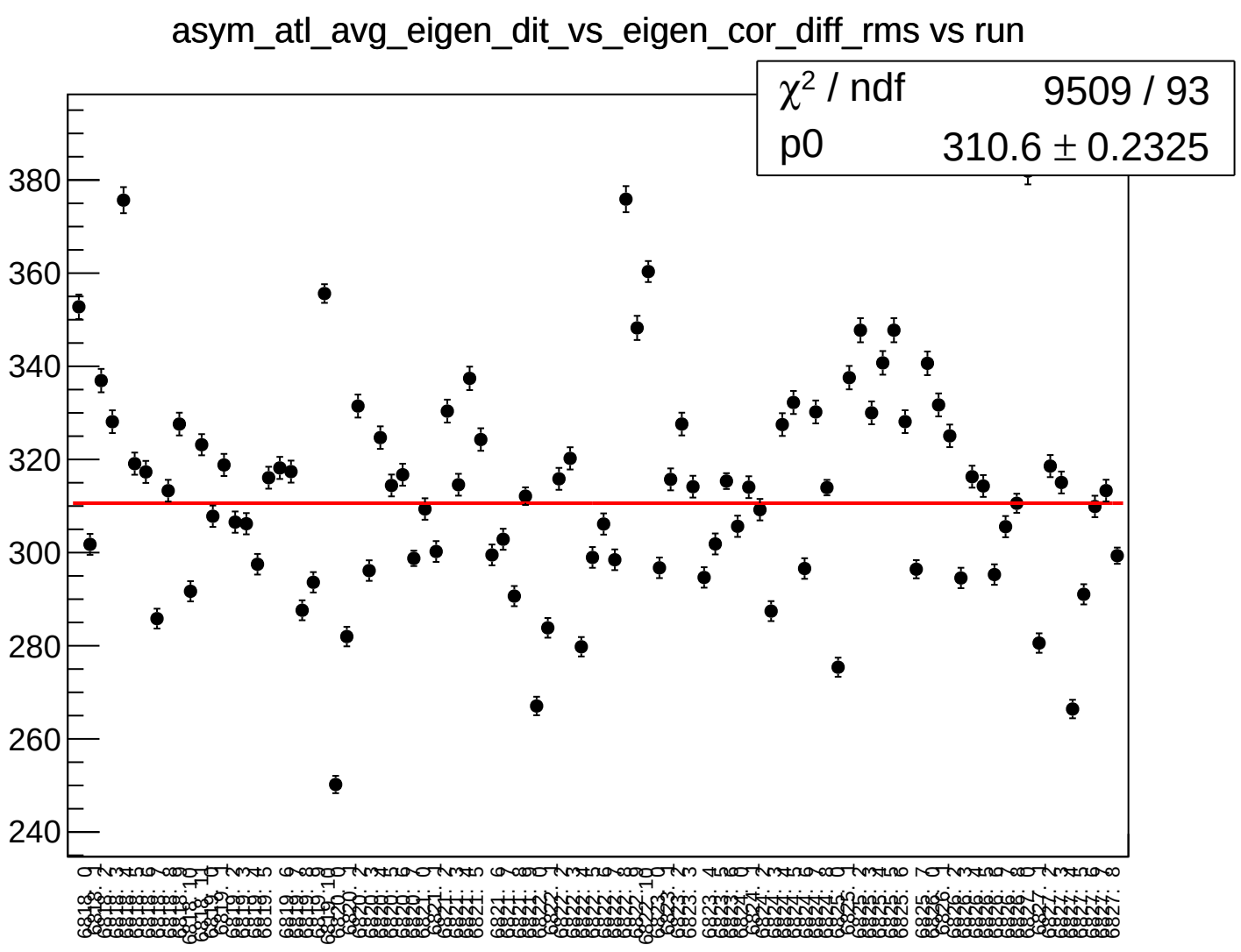

pull1D
Entries 94
Mean −0.004975
Std Dev 0.9802

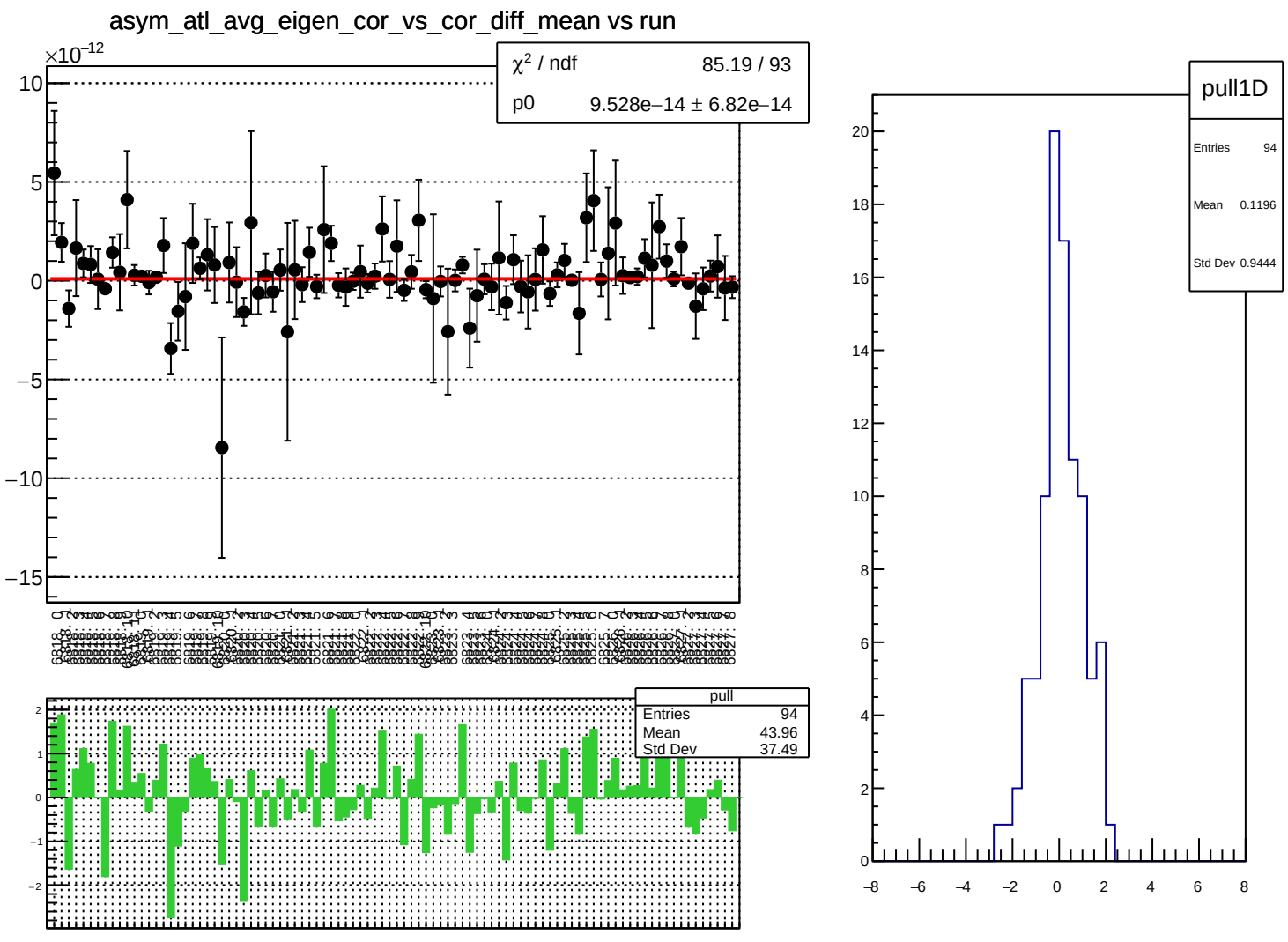

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2836 / 93
p0 0.003671 ± 2.742e−06
0.0041
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033

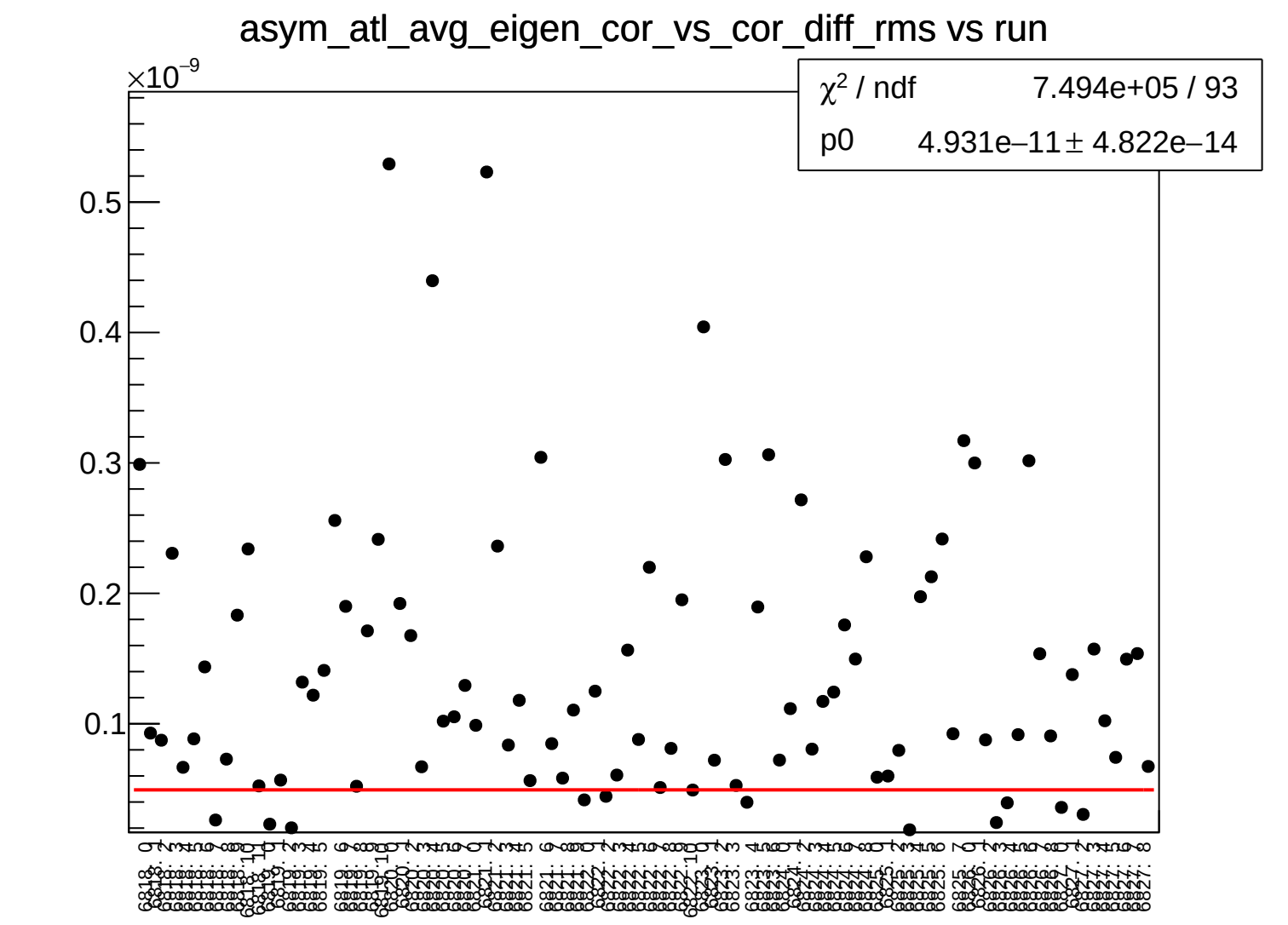

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 93
p0 0.1992 ± 0.3287
pull
Entries 94
Mean 187.9
Std Dev 0
pull1D
Entries 94
Mean 0.004114
Std Dev 0.9669

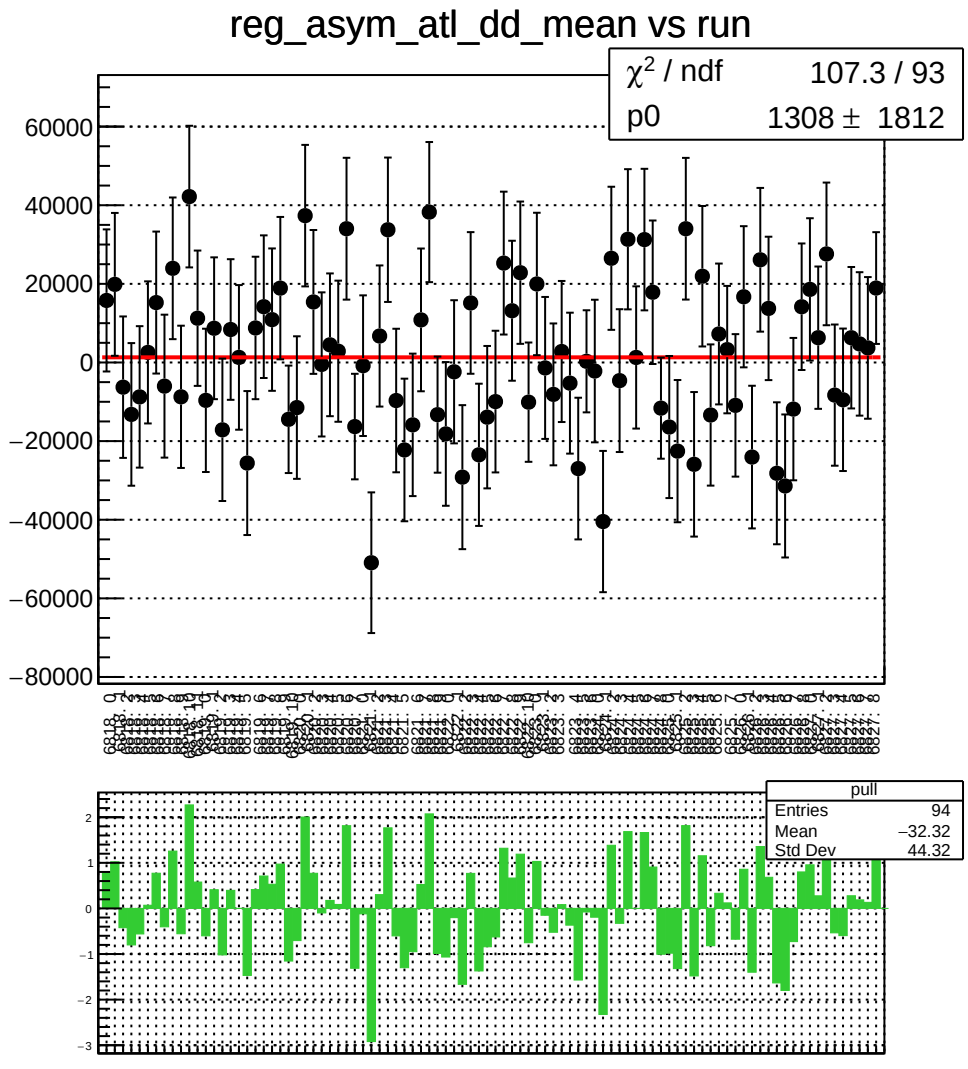

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9509 / 93
p0 310.6 ± 0.2325
380
360
340
320
300
280
260
240

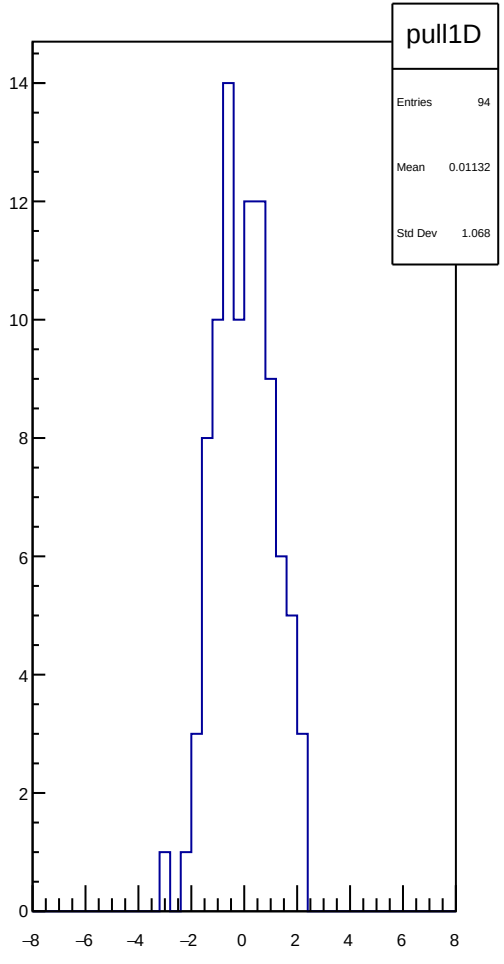

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.89 / 93
p0 0.1992 ± 0.3287
pull
Entries 94
Mean 187.9
Std Dev 0
pull1D
Entries 94
Mean 0.004114
Std Dev 0.9669

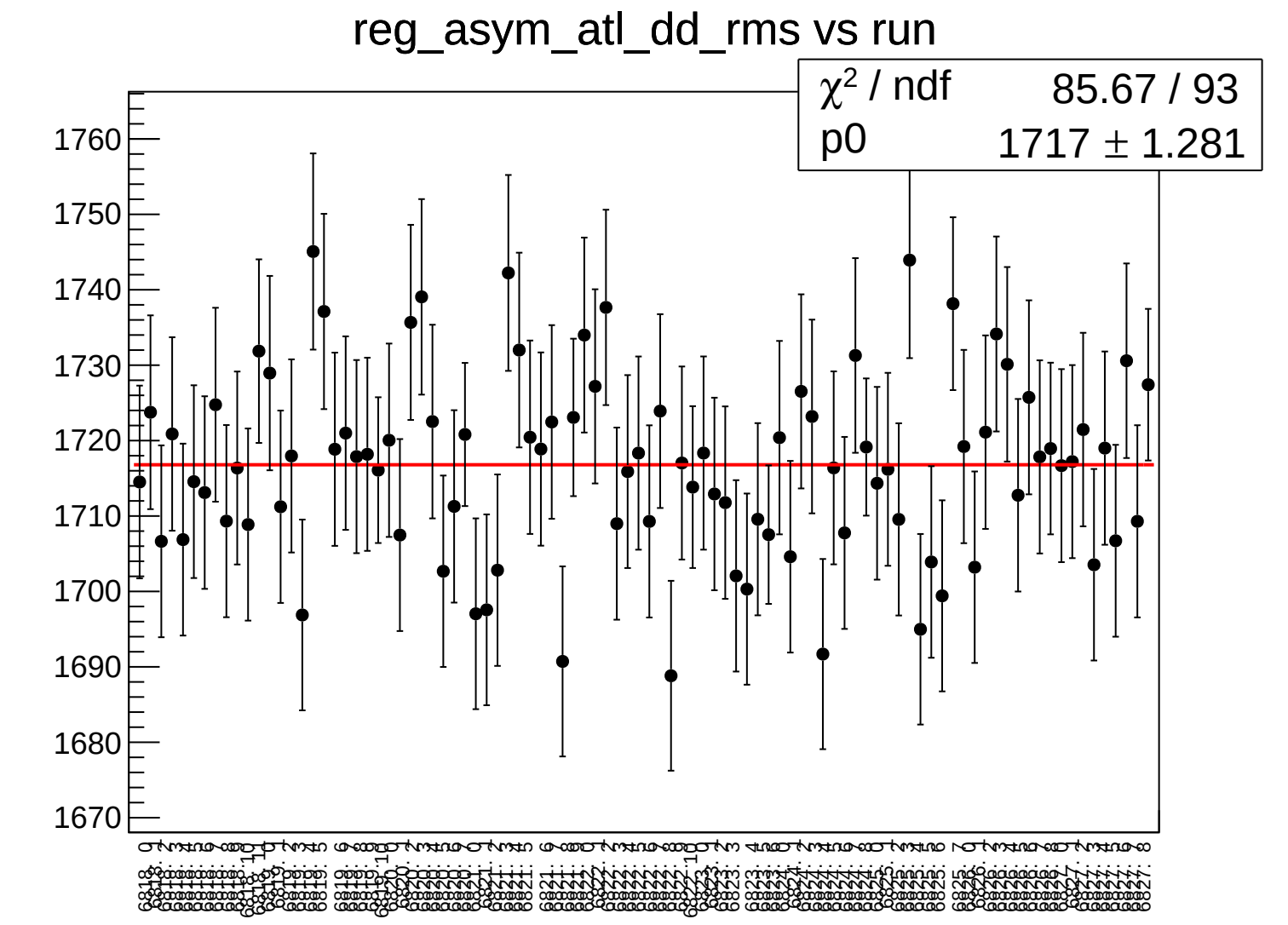

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9509 / 93
p0 310.6 ± 0.2325
380
360
340
320
300
280
260
240

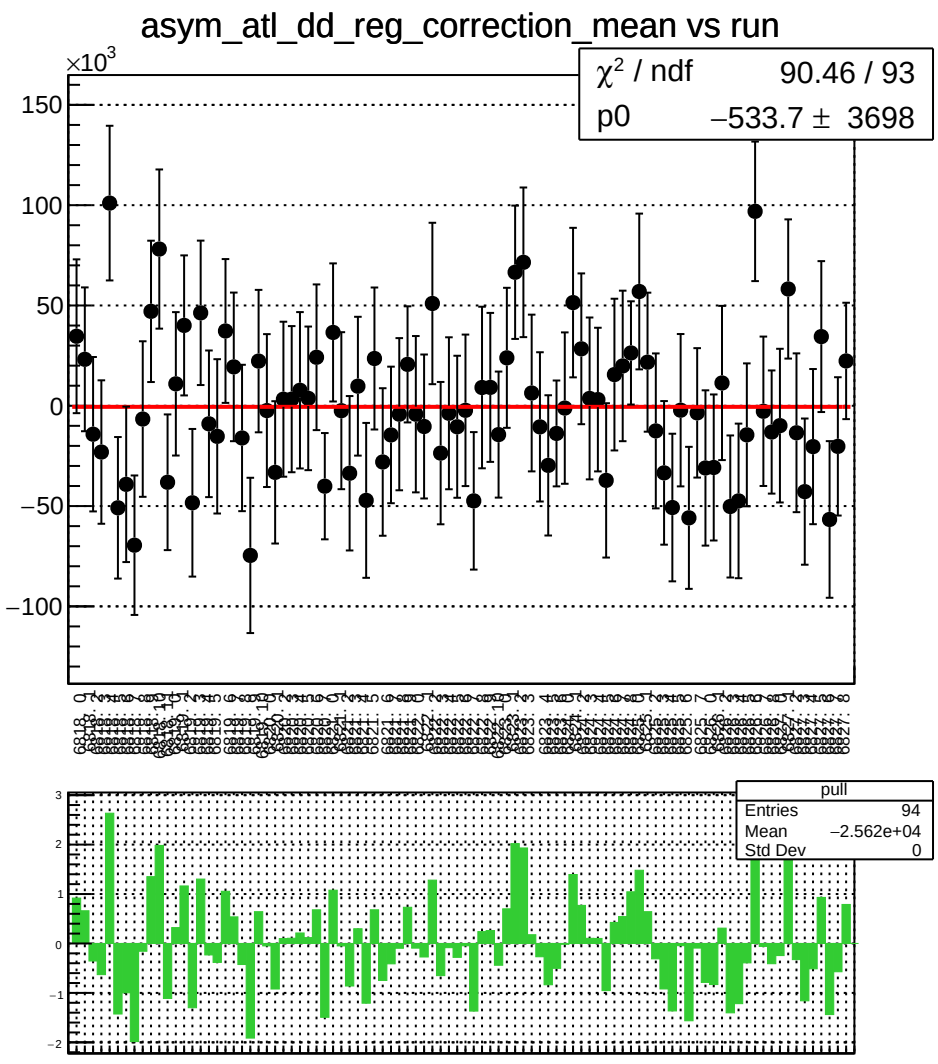

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.19 / 93
p0 9.528e−14 ± 6.82e−14
pull
Entries 94
Mean 43.96
Std Dev 37.49
pull1D
Entries 94
Mean 0.1196
Std Dev 0.9444

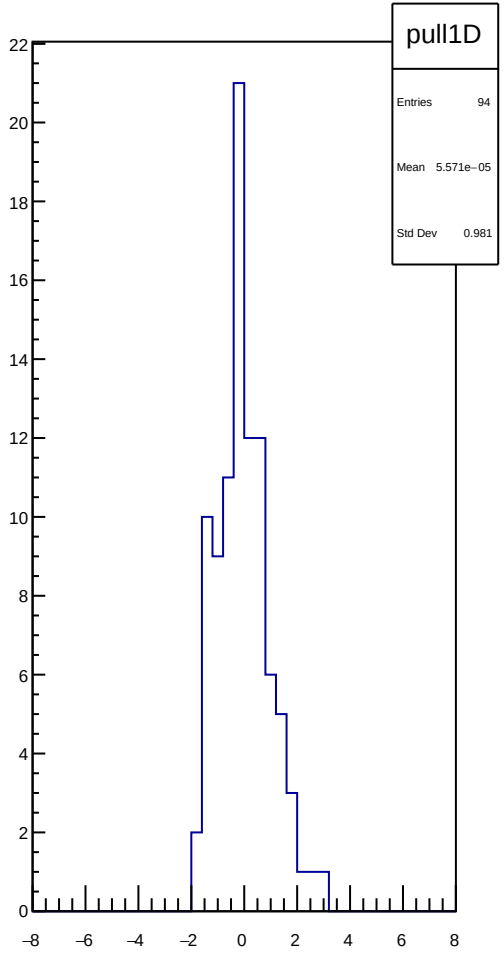

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.494e+05 / 93
p0 4.931e−11 ± 4.822e−14
0.5
0.4
0.3
0.2
0.1

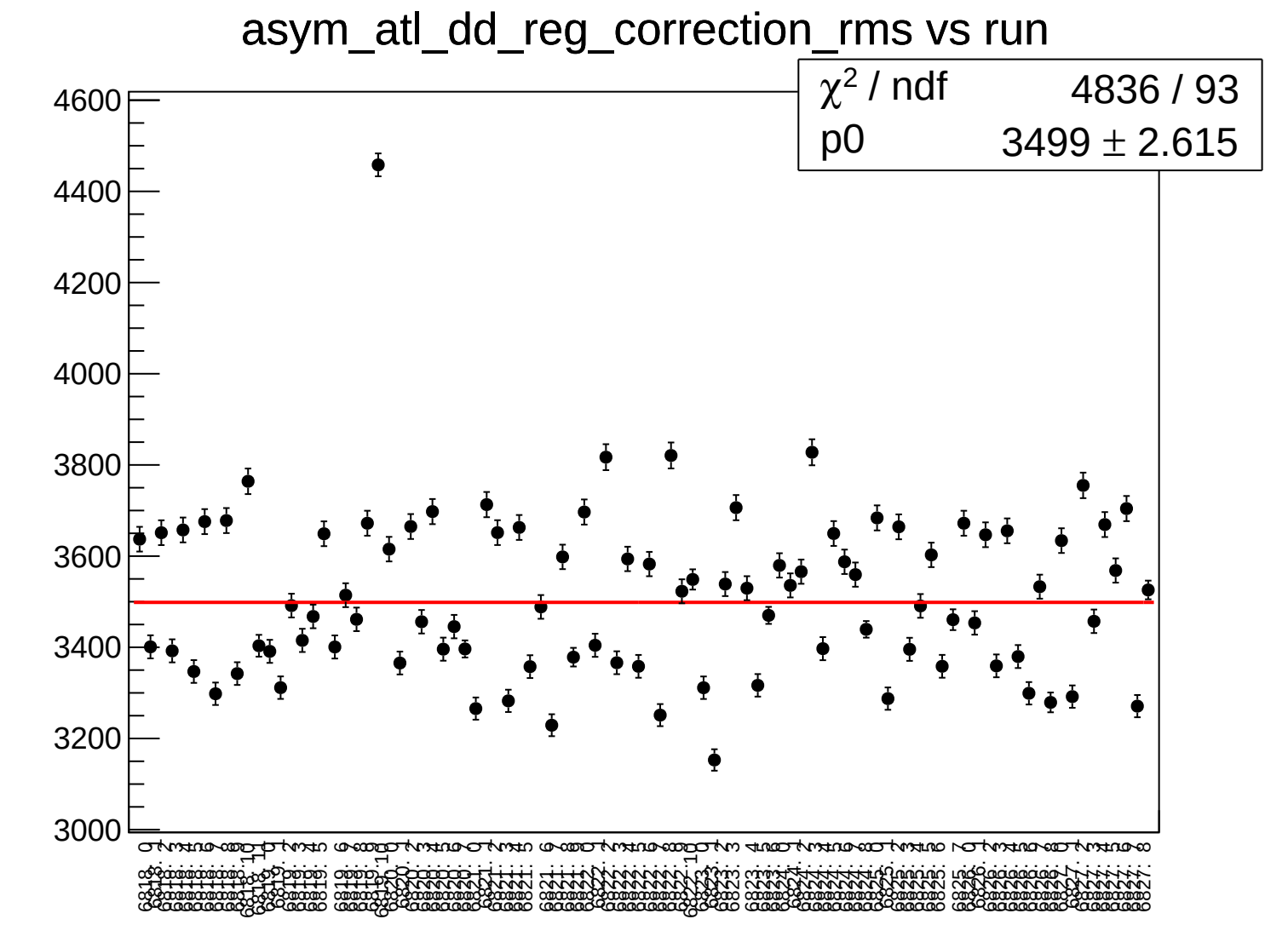

reg_asym_atl_dd_mean vs run
χ² / ndf 107.3 / 93
p0 1308 ± 1812
pull
Entries 94
Mean −32.32
Std Dev 44.32

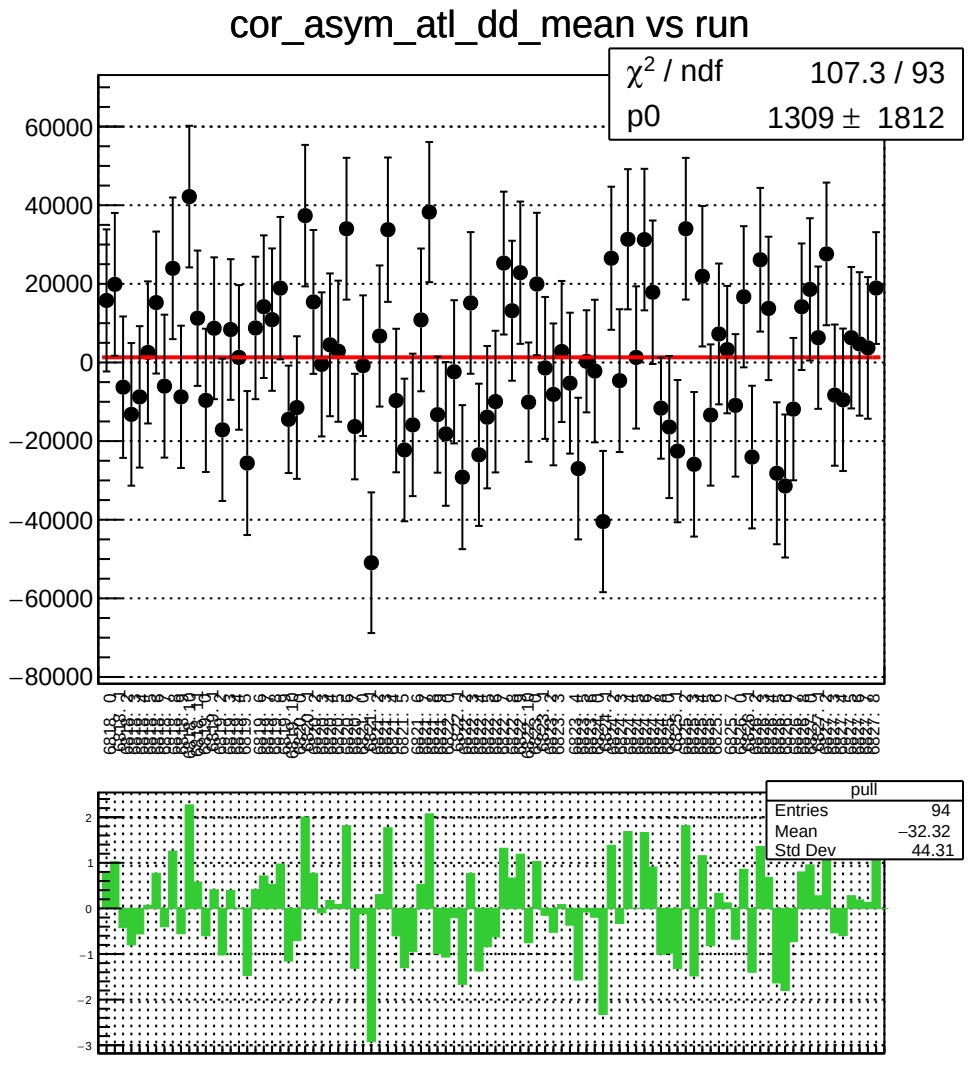

pull1D
Entries 94
Mean 0.01132
Std Dev 1.068

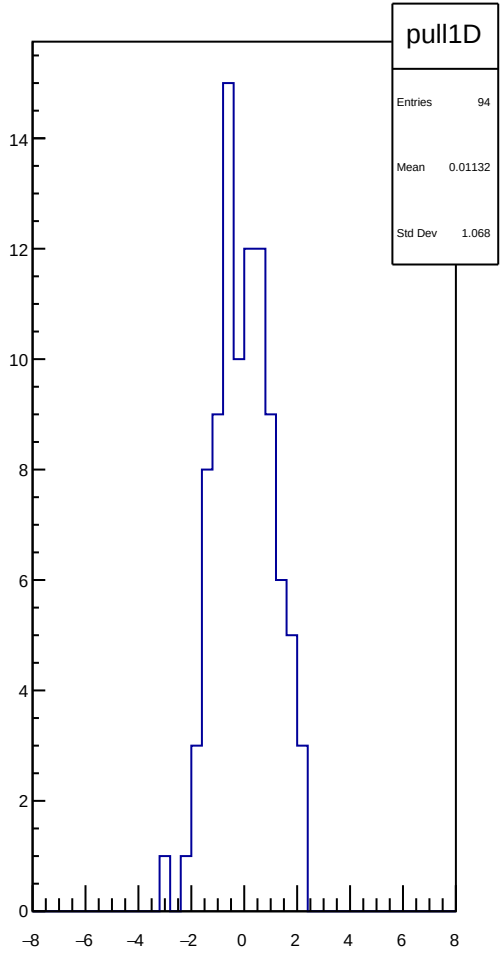

reg_asym_atl_dd_rms vs run
χ² / ndf 85.67 / 93
p0 1717 ± 1.281
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670

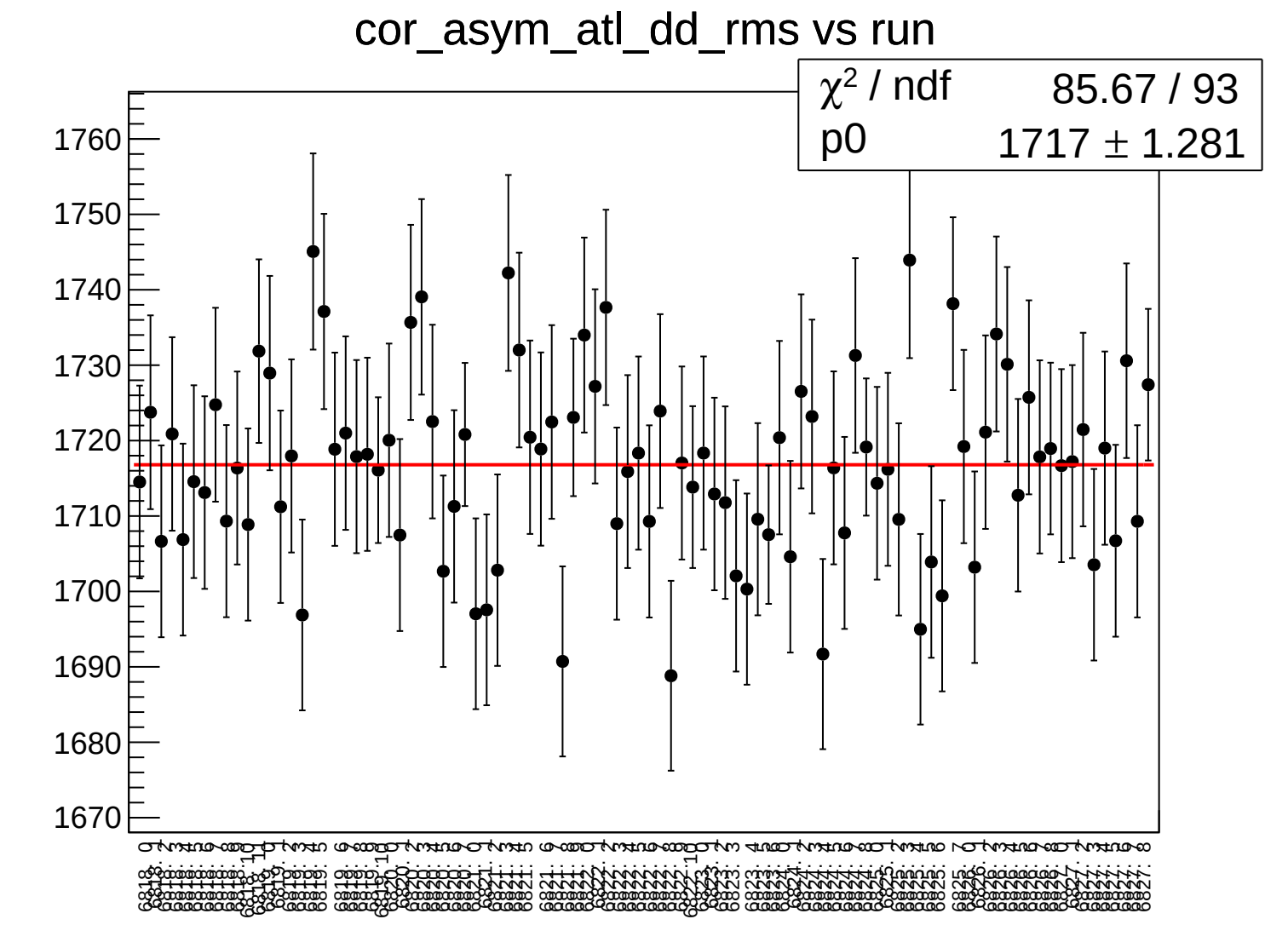

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.46 / 93
p0 −533.7 ± 3698
150
100
50
0
−50
−100
pull
Entries 94
Mean −2.562e+04
Std Dev 0
3
2
1
0
−1
−2

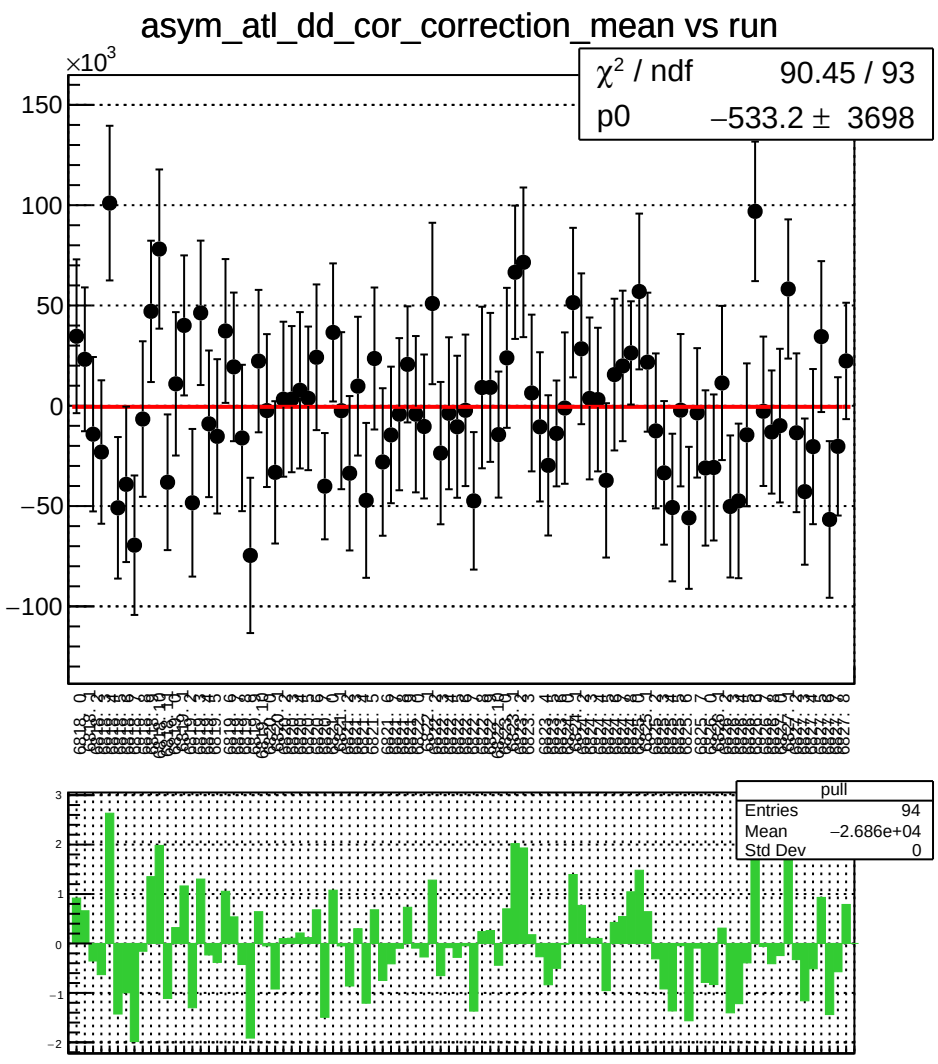

pull1D
Entries 94
Mean 5.571e−05
Std Dev 0.981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

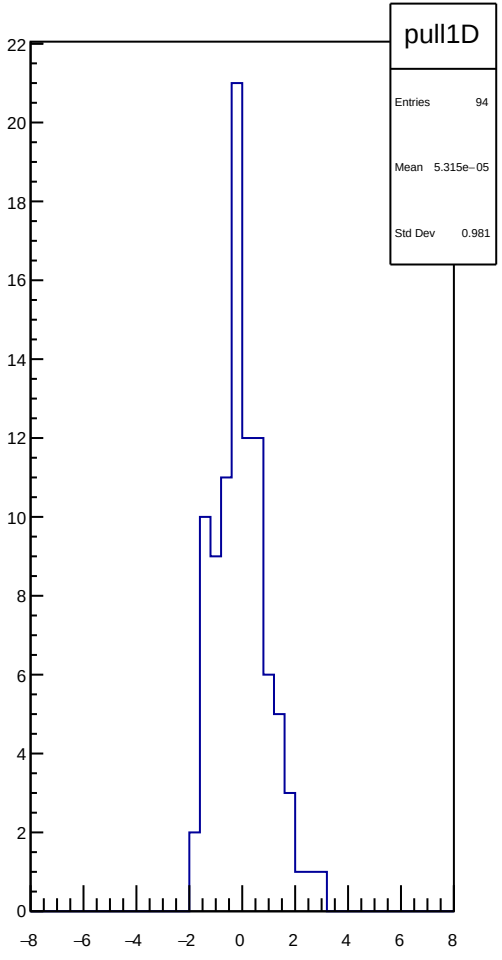

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4836 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200
3000

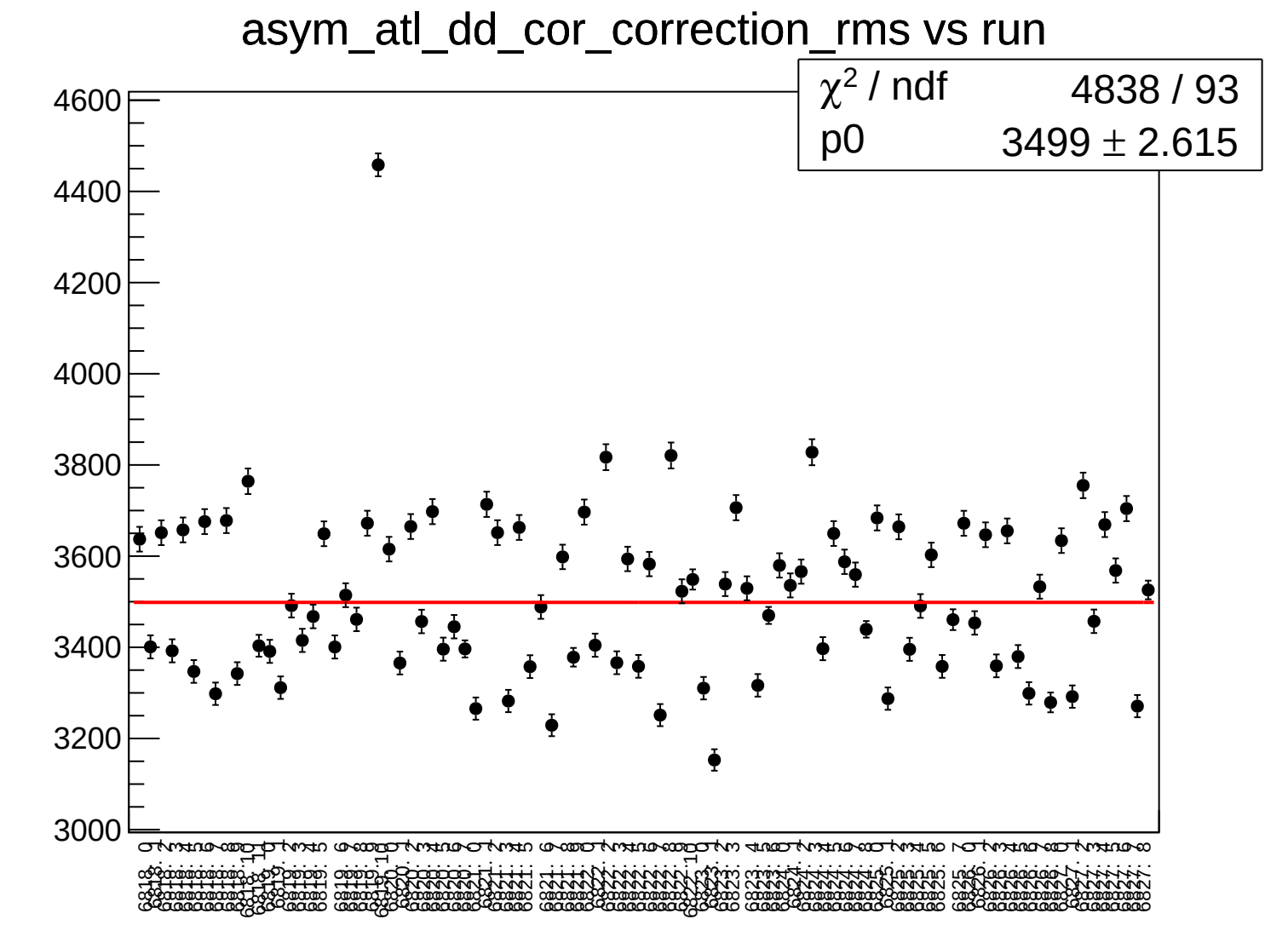

cor_asym_atl_dd_mean vs run
χ² / ndf 107.3 / 93
p0 1309 ± 1812
pull
Entries 94
Mean −32.32
Std Dev 44.31

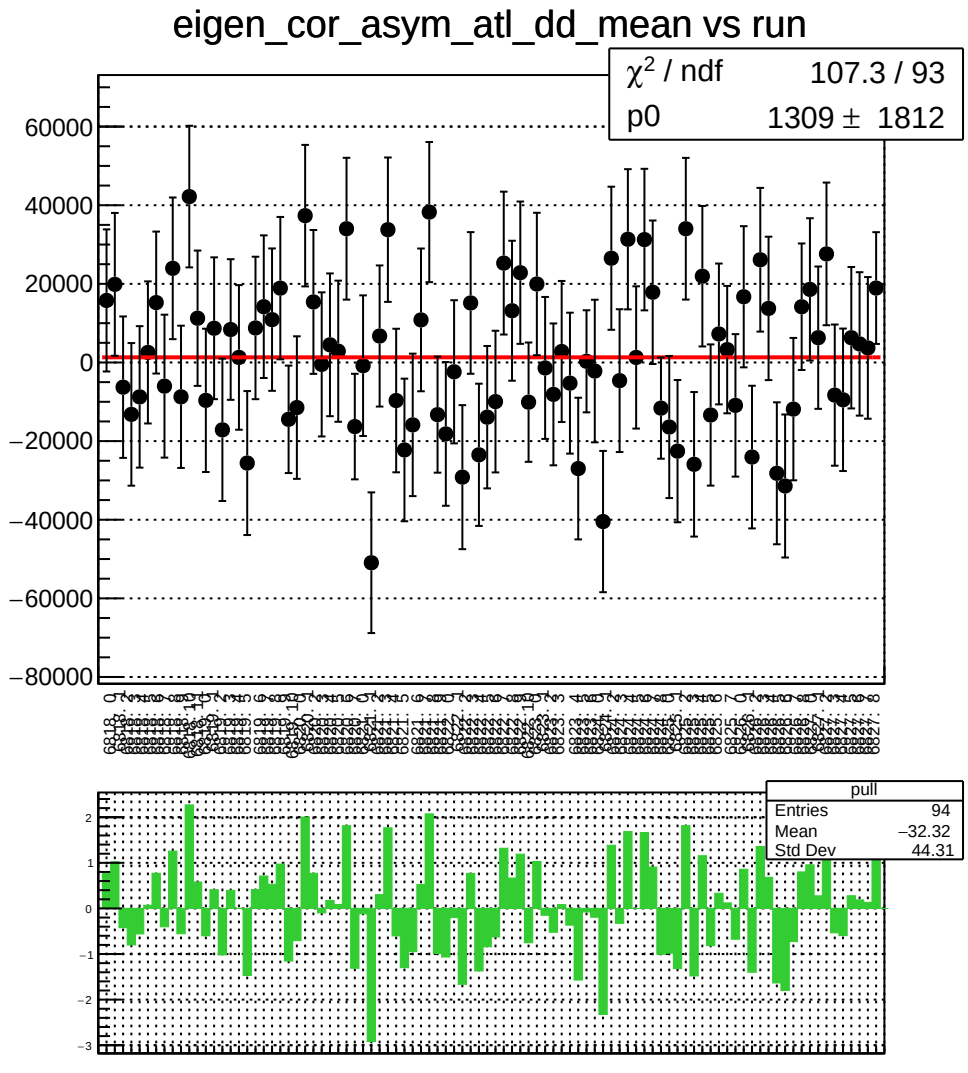

pull1D
Entries 94
Mean 0.01132
Std Dev 1.068

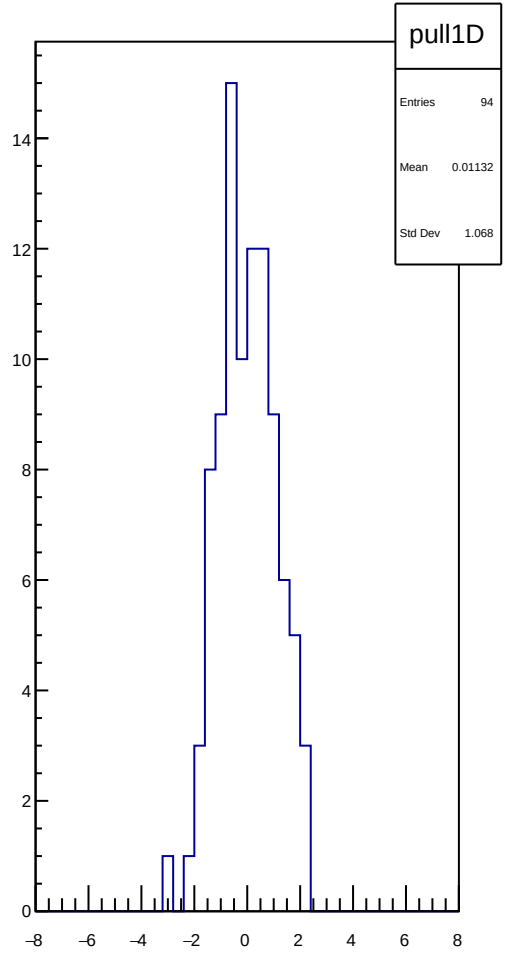

cor_asym_atl_dd_rms vs run
χ^2 / ndf 85.67 / 93
p0 1717 ± 1.281
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670

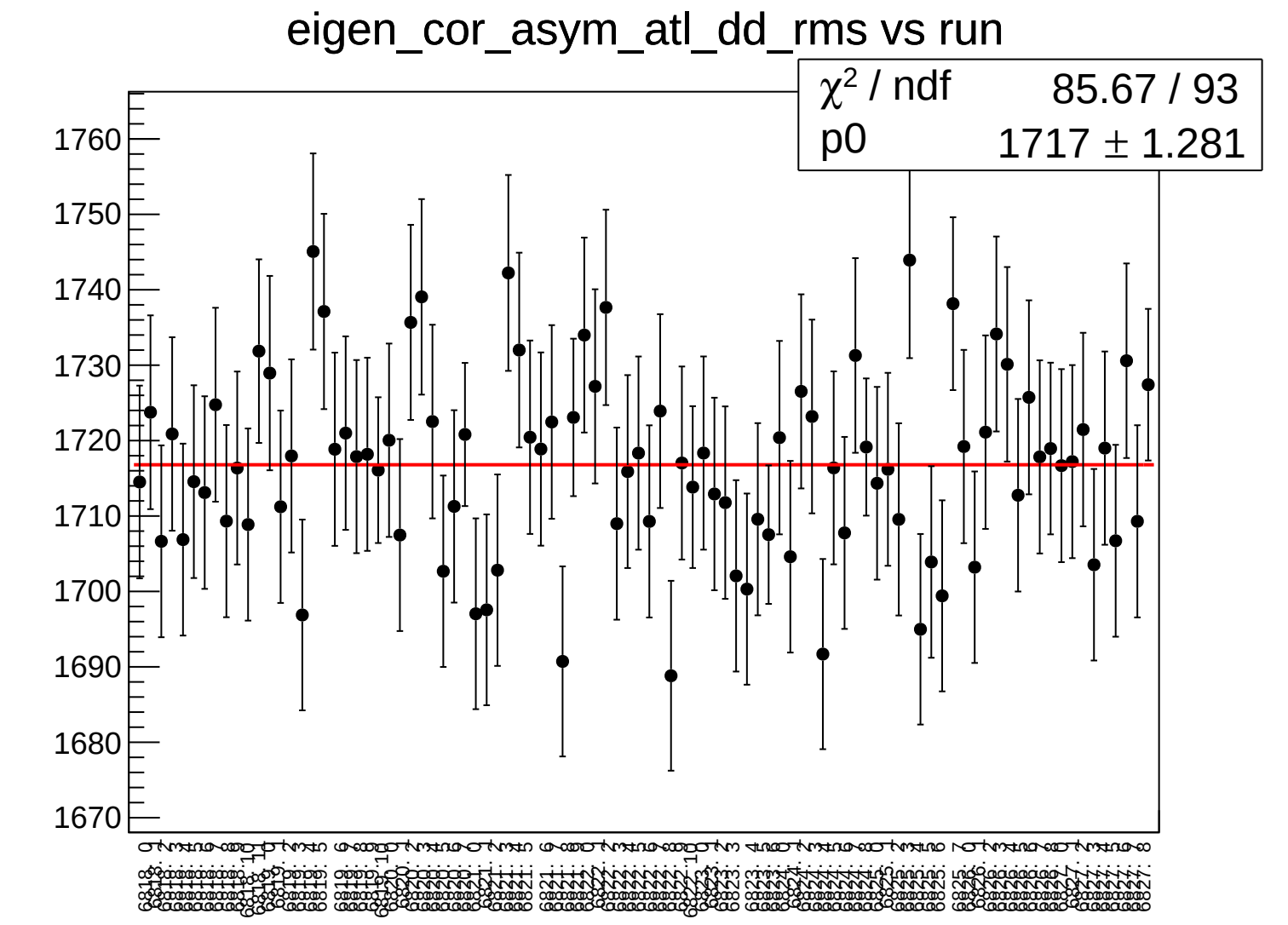

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.45 / 93
p0 −533.2 ± 3698
150
100
50
0
−50
−100
pull
Entries 94
Mean −2.686e+04
Std Dev 0
3
2
1
0
−1
−2

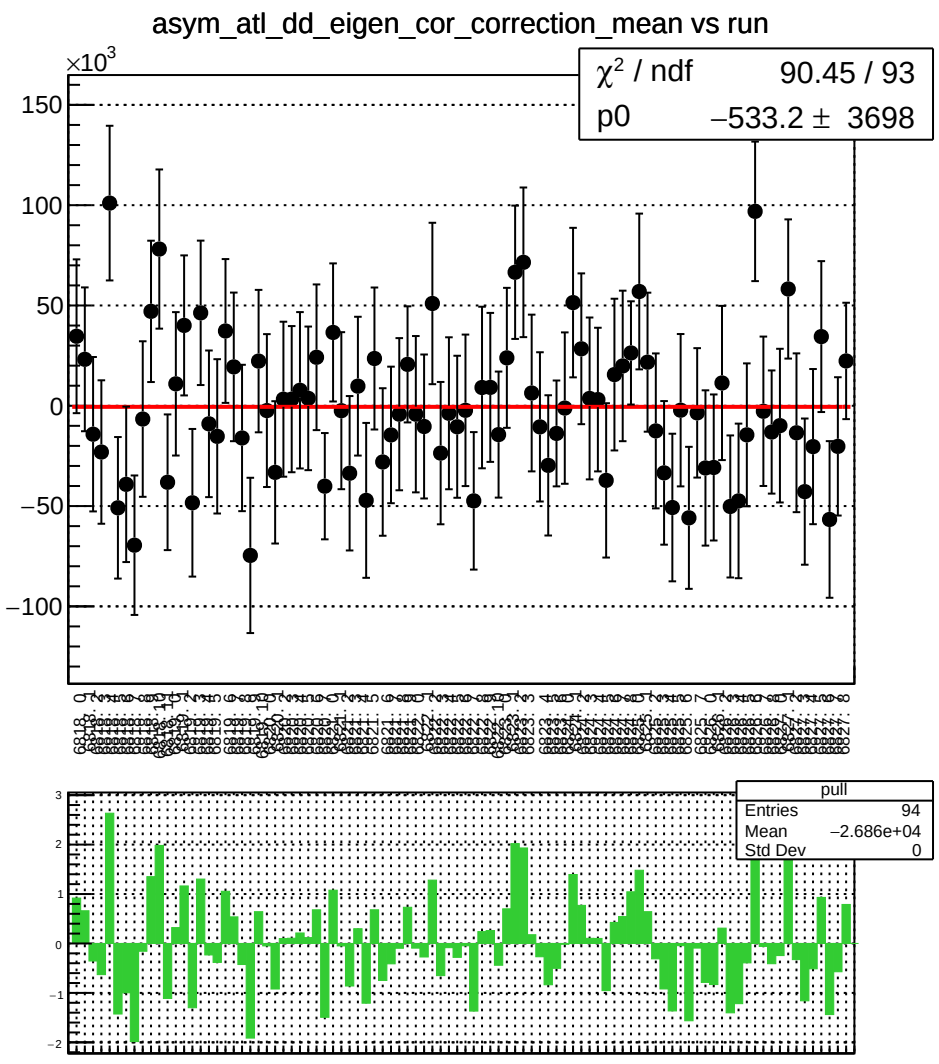

pull1D
Entries 94
Mean 5.315e−05
Std Dev 0.981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

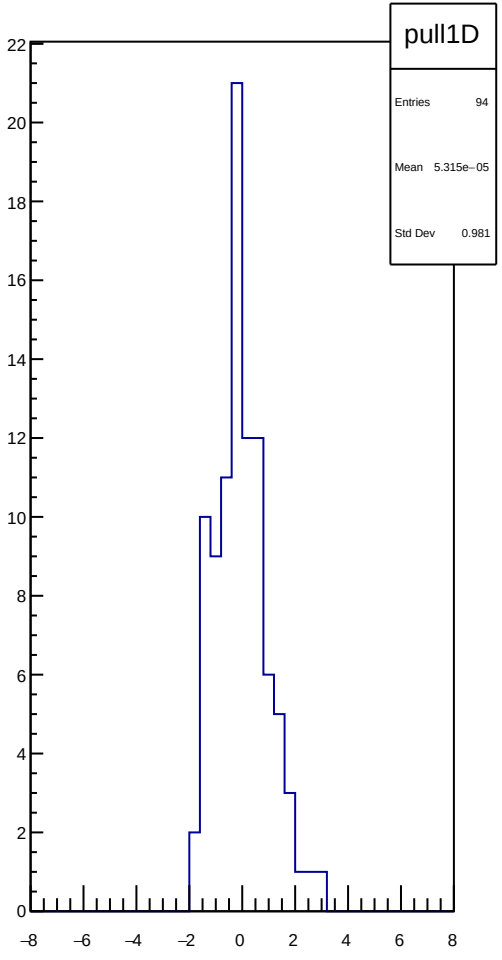

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4838 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200
3000

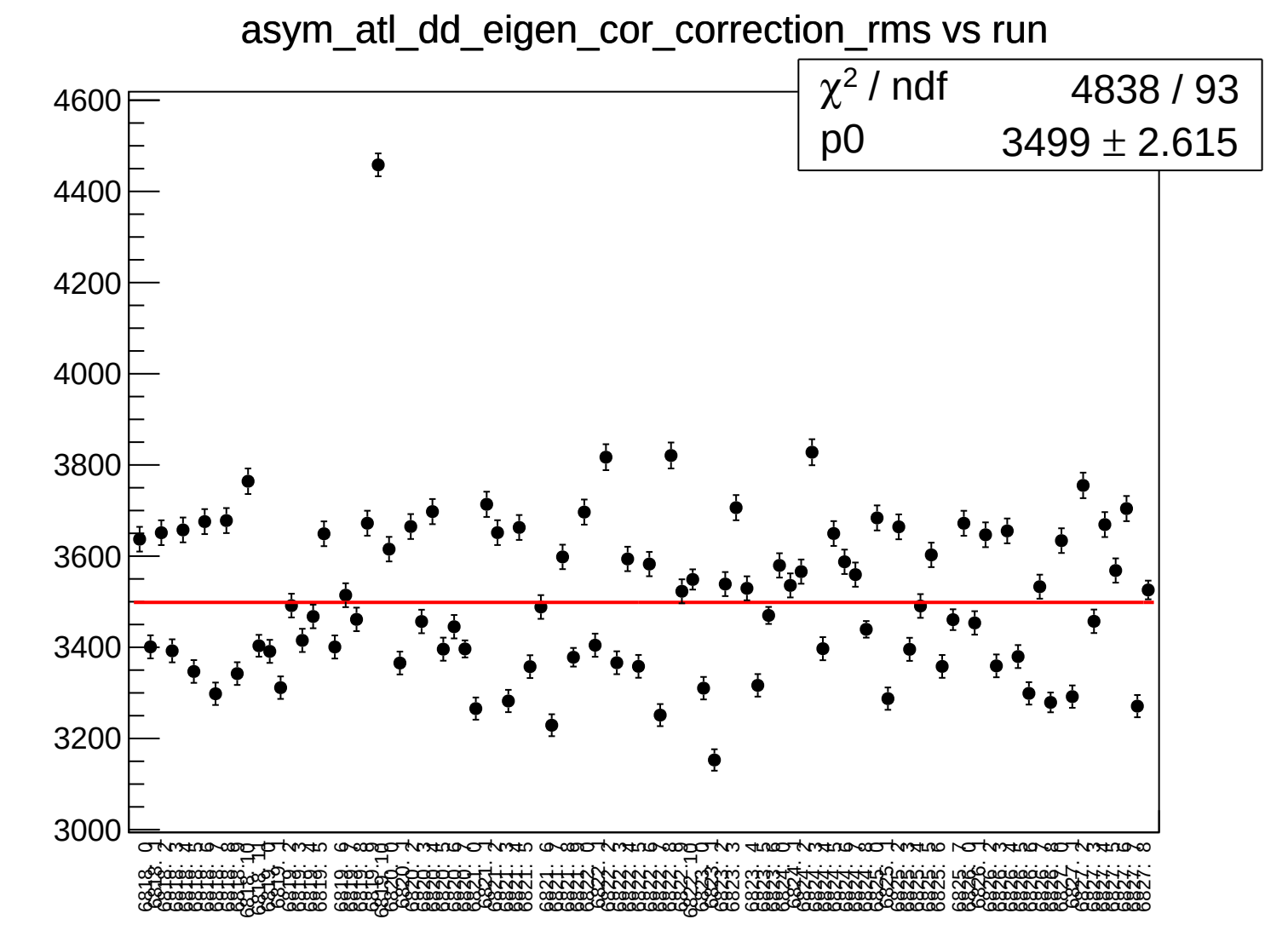

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 107.3 / 93
p0 1309 ± 1812
pull
Entries 94
Mean −32.32
Std Dev 44.31

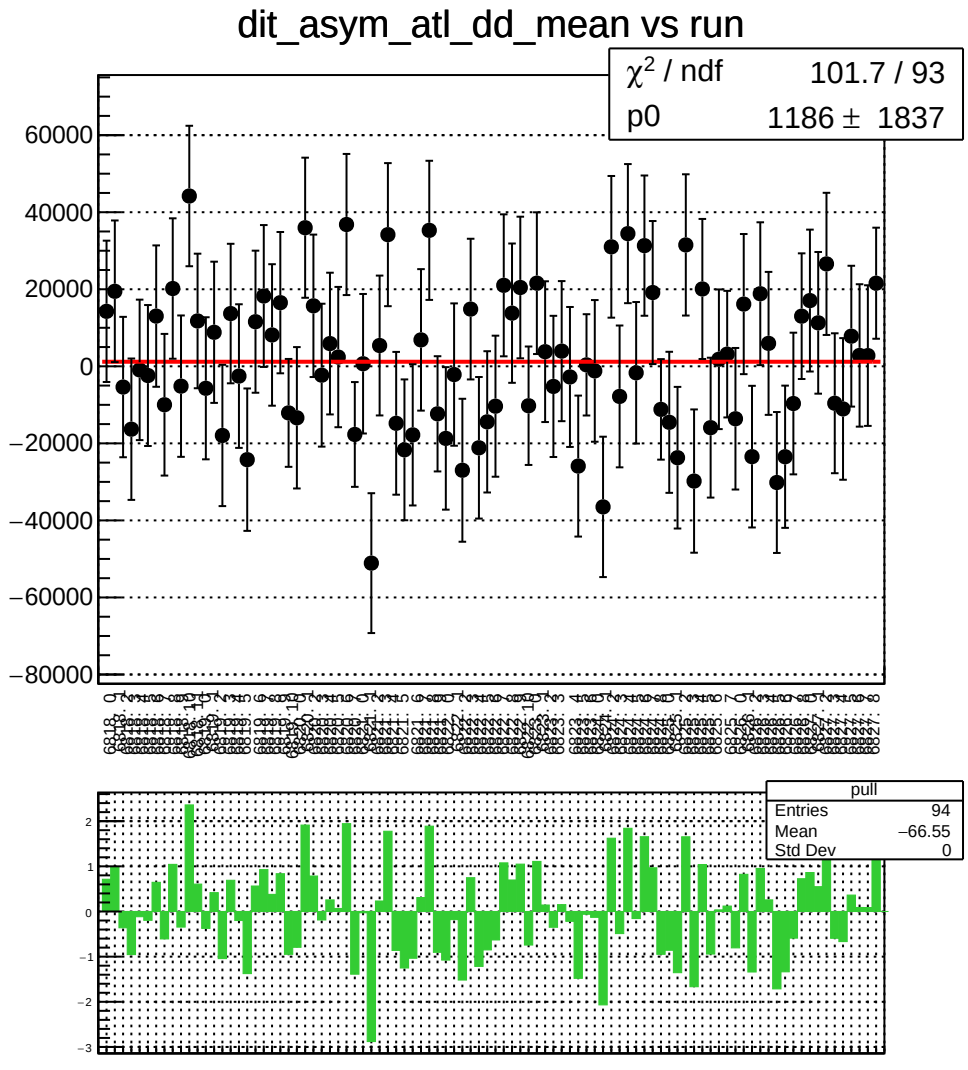

pull1D
Entries 94
Mean 0.01132
Std Dev 1.068

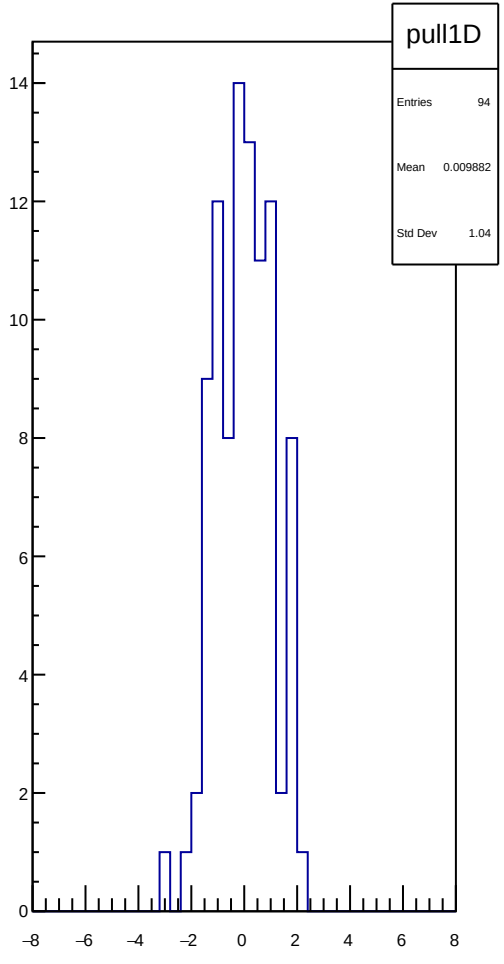

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 85.67 / 93
p0 1717 ± 1.281
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670

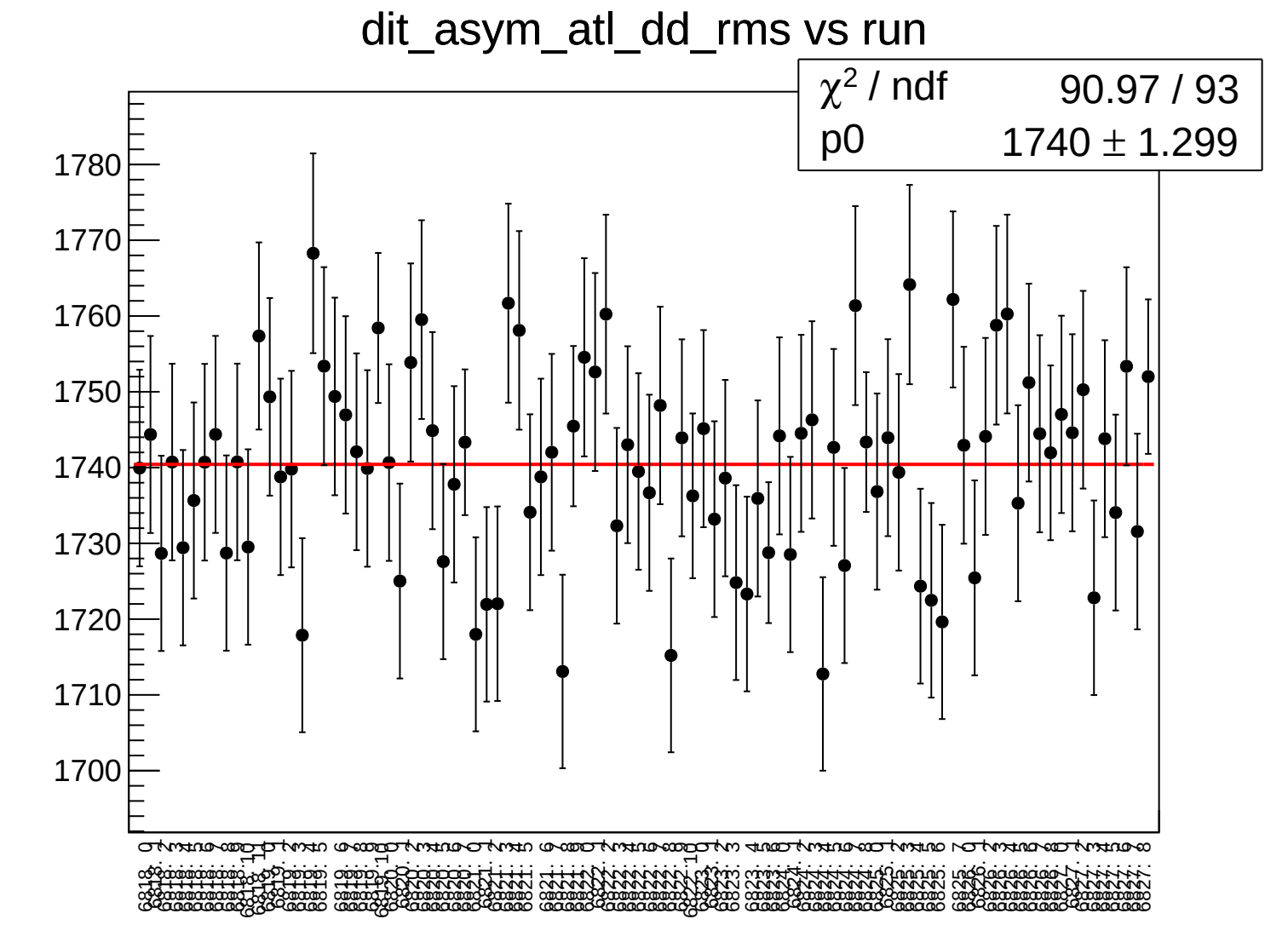

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.45 / 93
p0 −533.2 ± 3698
150
100
50
0
−50
−100
pull
Entries 94
Mean −2.686e+04
Std Dev 0
3
2
1
0
−1
−2

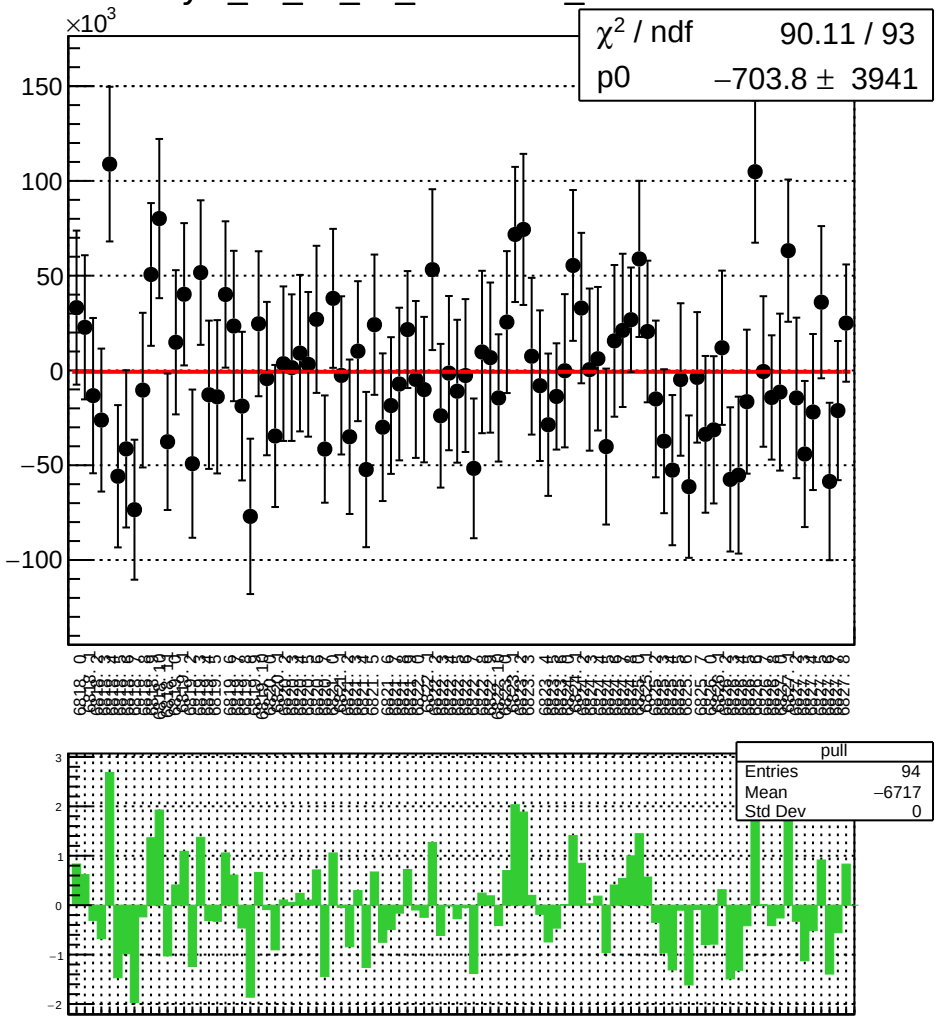

pull1D
Entries 94
Mean 5.315e−05
Std Dev 0.981
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

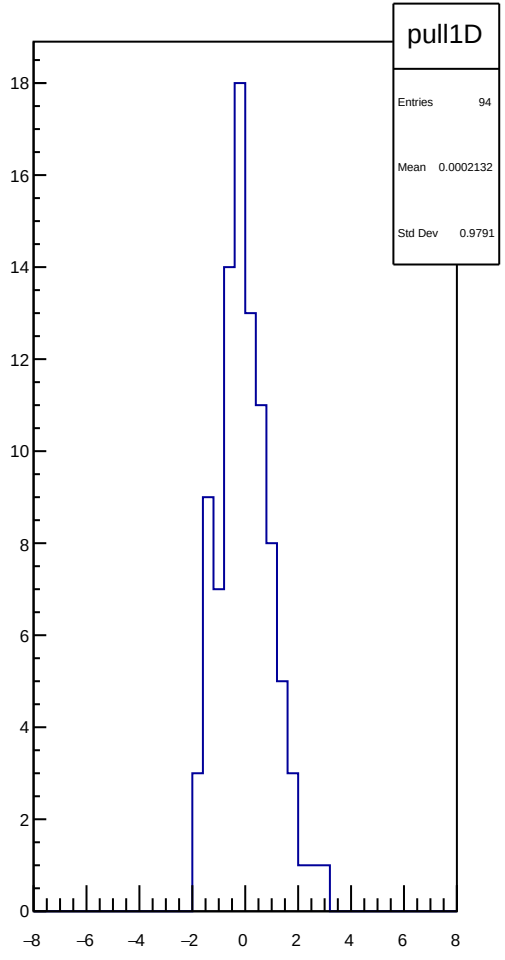

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4838 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200
3000

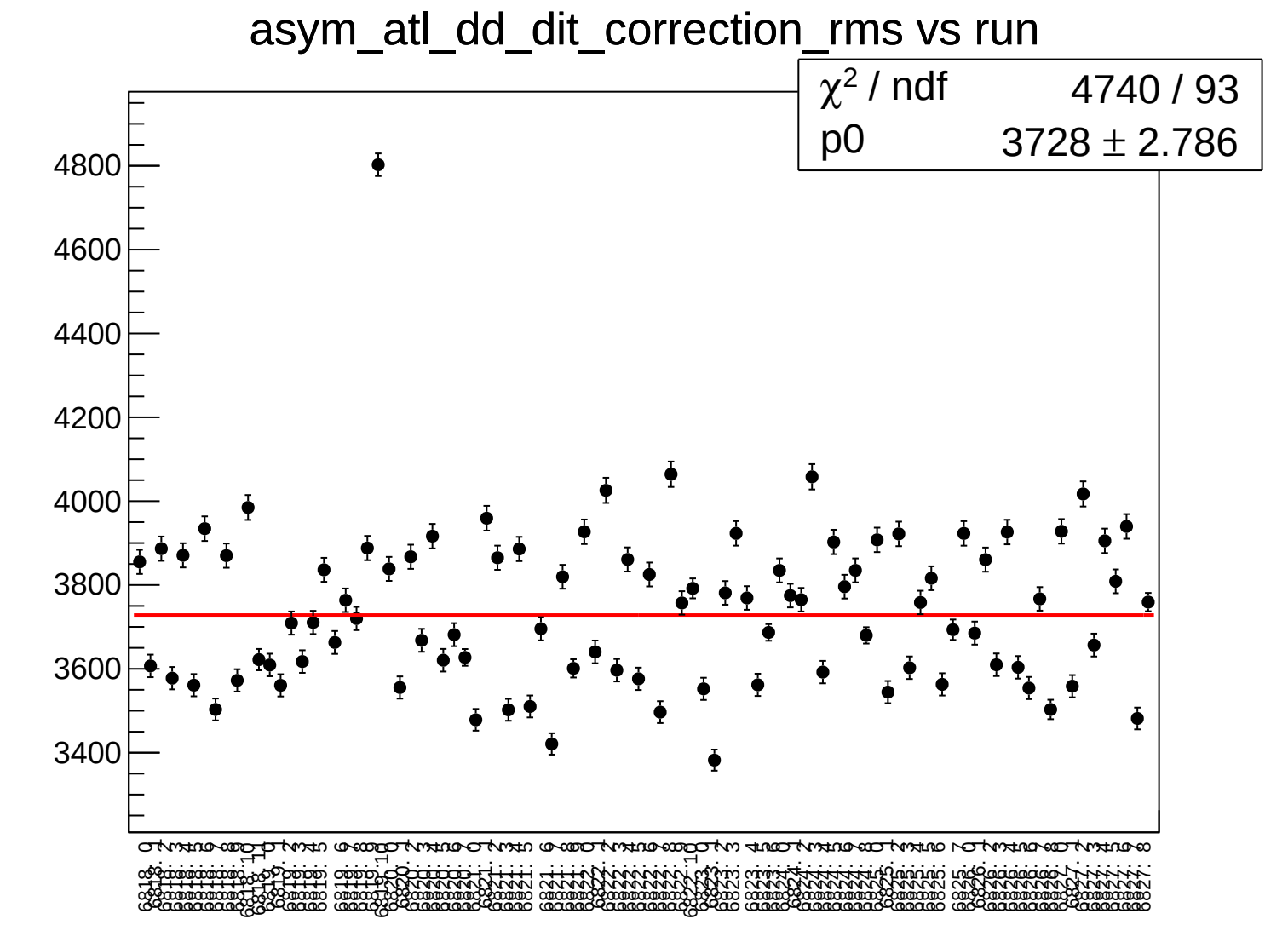

dit_asym_atl_dd_mean vs run
χ² / ndf 101.7 / 93
p0 1186 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −66.55
Std Dev 0
2
1
0
−1
−2
−3

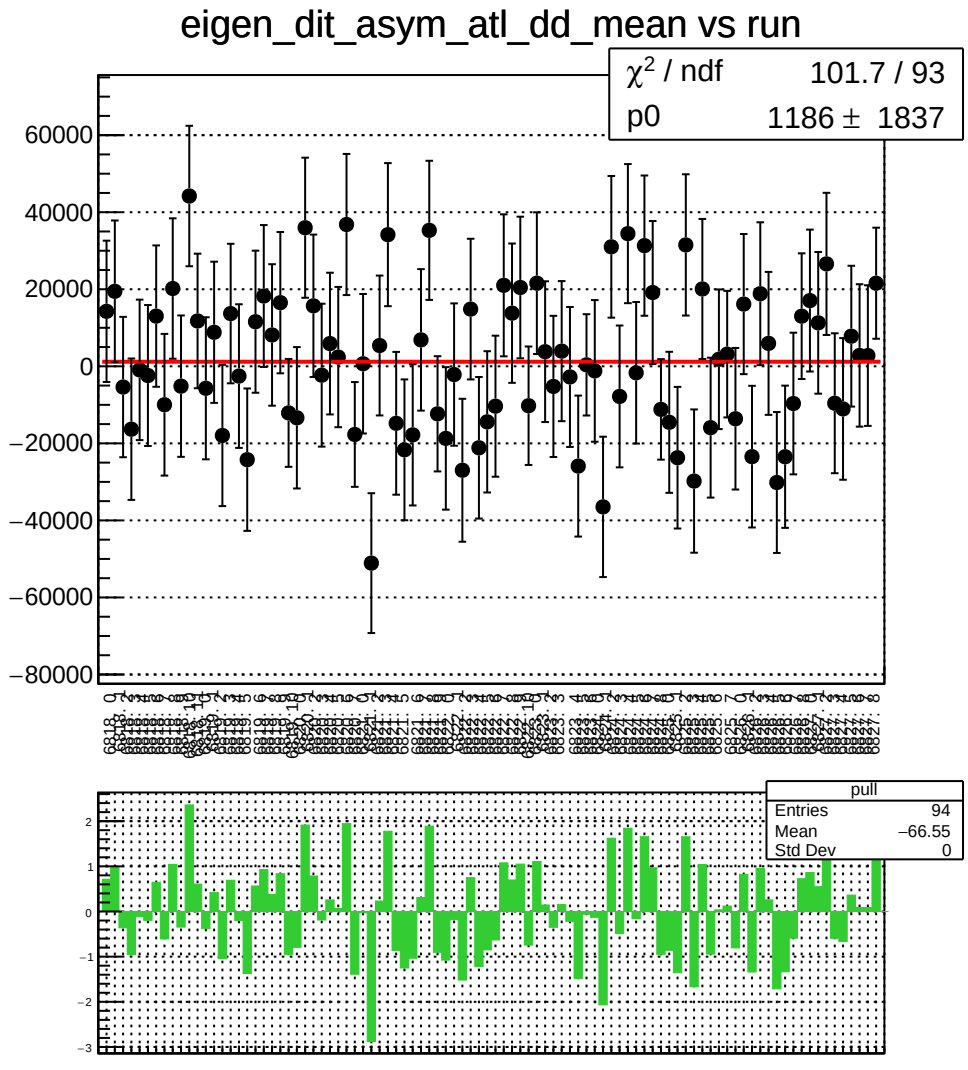

pull1D
Entries 94
Mean 0.009882
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

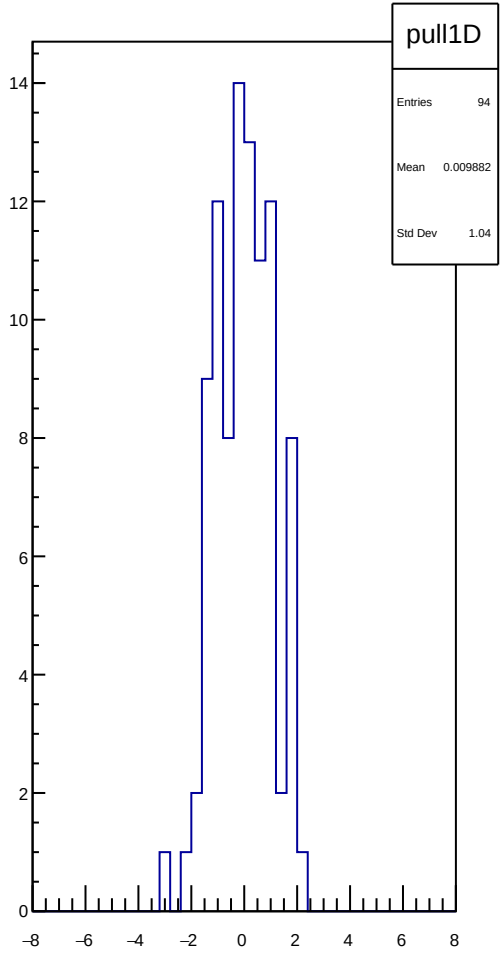

dit_asym_atl_dd_rms vs run
χ² / ndf 90.97 / 93
p0 1740 ± 1.299
1780
1770
1760
1750
1740
1730
1720
1710
1700

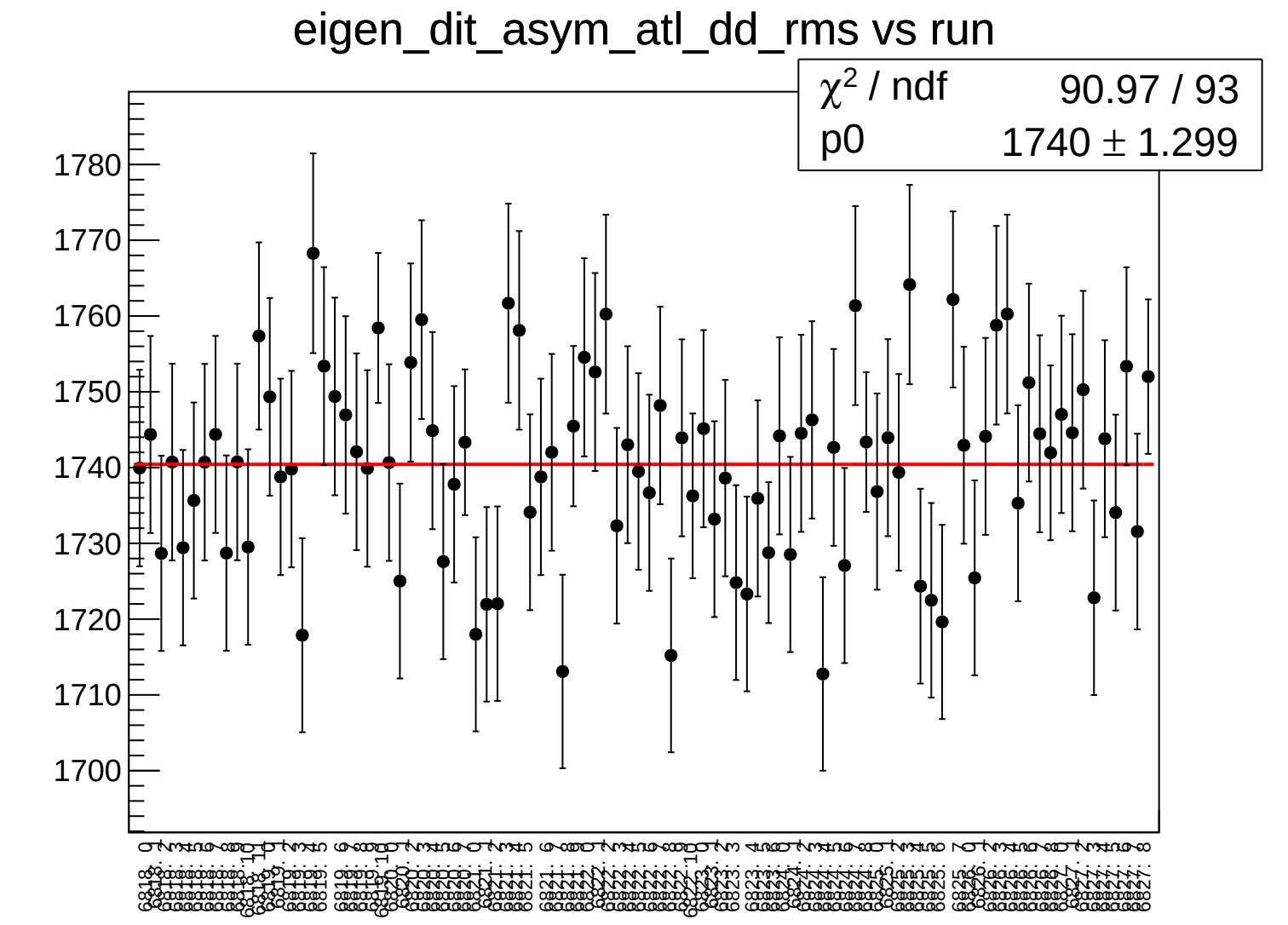

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.11 / 93
p0 −703.8 ± 3941
150
100
50
0
−50
−100
pull
Entries 94
Mean −6717
Std Dev 0
3
2
1
0
−1
−2

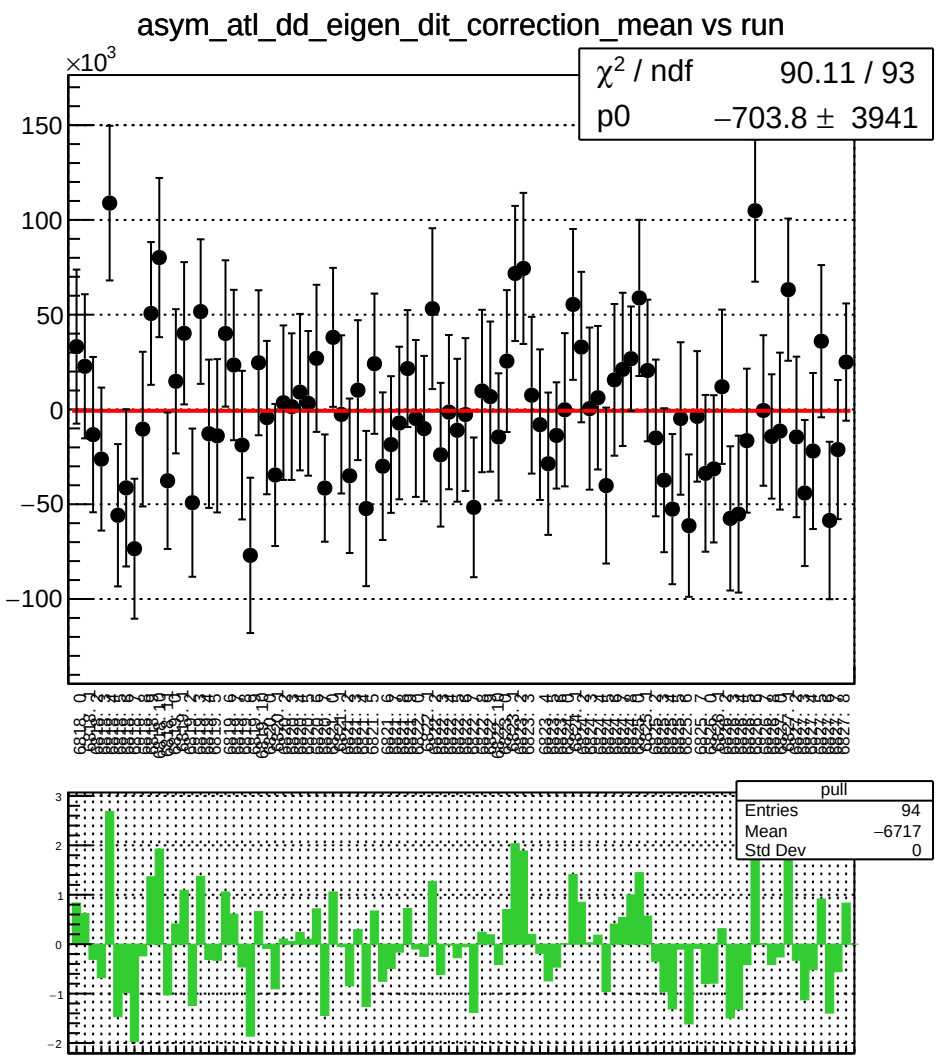

pull1D
Entries 94
Mean 0.0002132
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

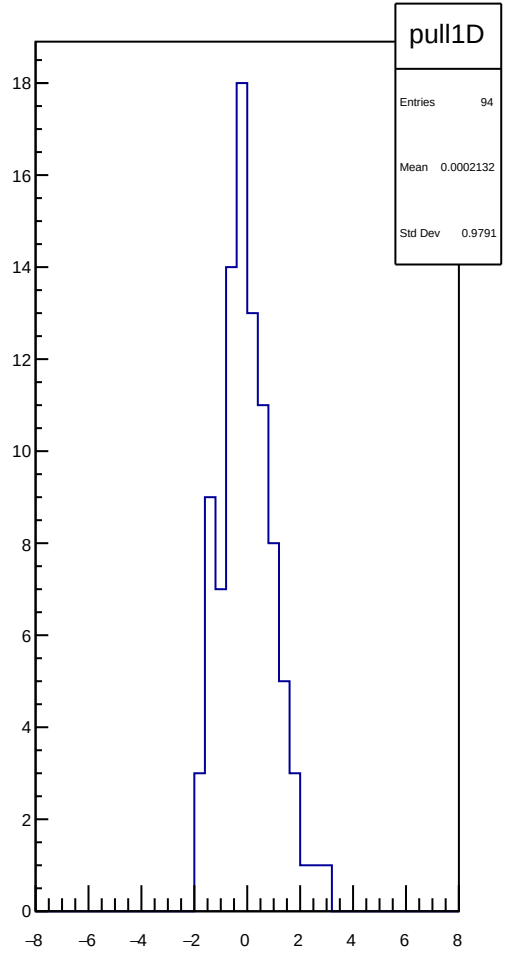

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4740 / 93
p0 3728 ± 2.786
4800
4600
4400
4200
4000
3800
3600
3400

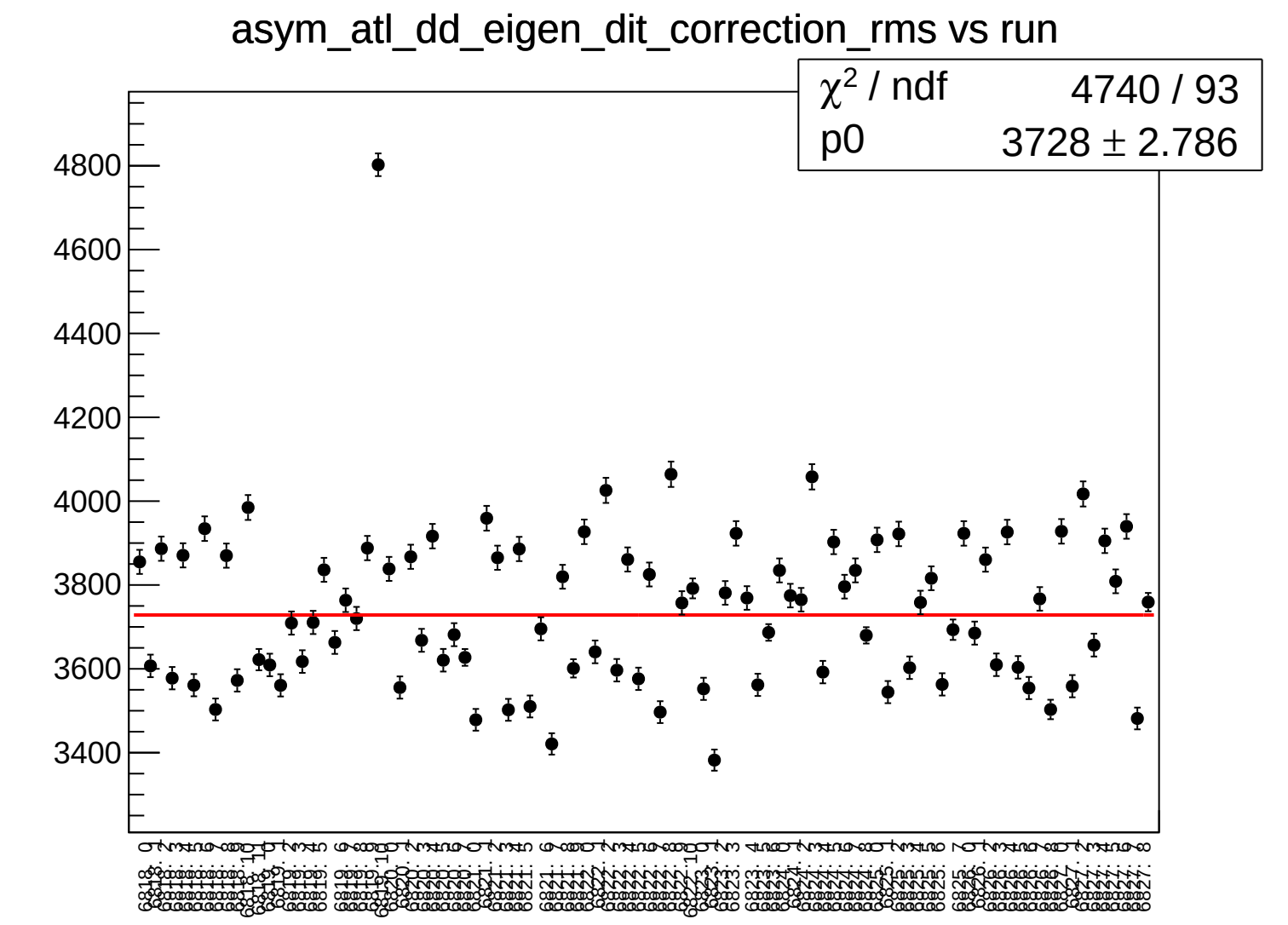

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 101.7 / 93
p0 1186 ± 1837
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −66.55
Std Dev 0
2
1
0
−1
−2
−3

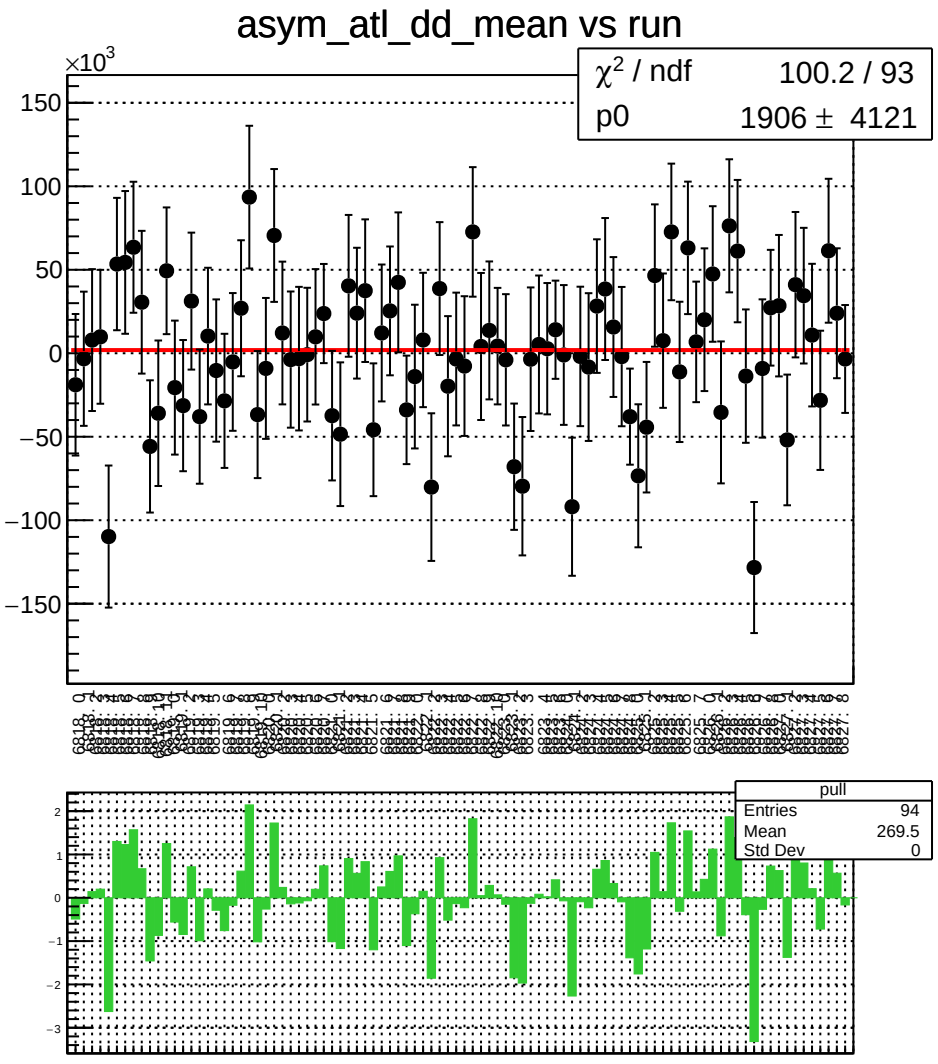

pull1D
Entries 94
Mean 0.009882
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

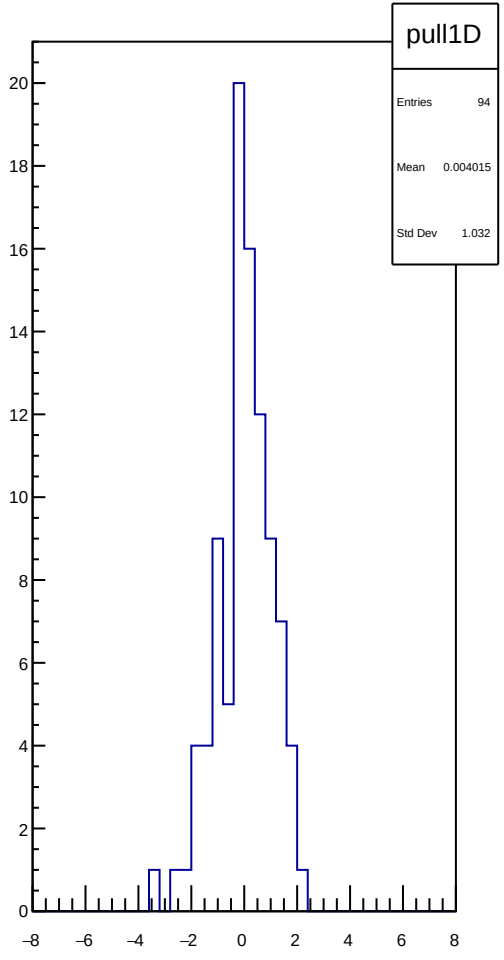

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 90.97 / 93
p0 1740 ± 1.299
1780
1770
1760
1750
1740
1730
1720
1710
1700

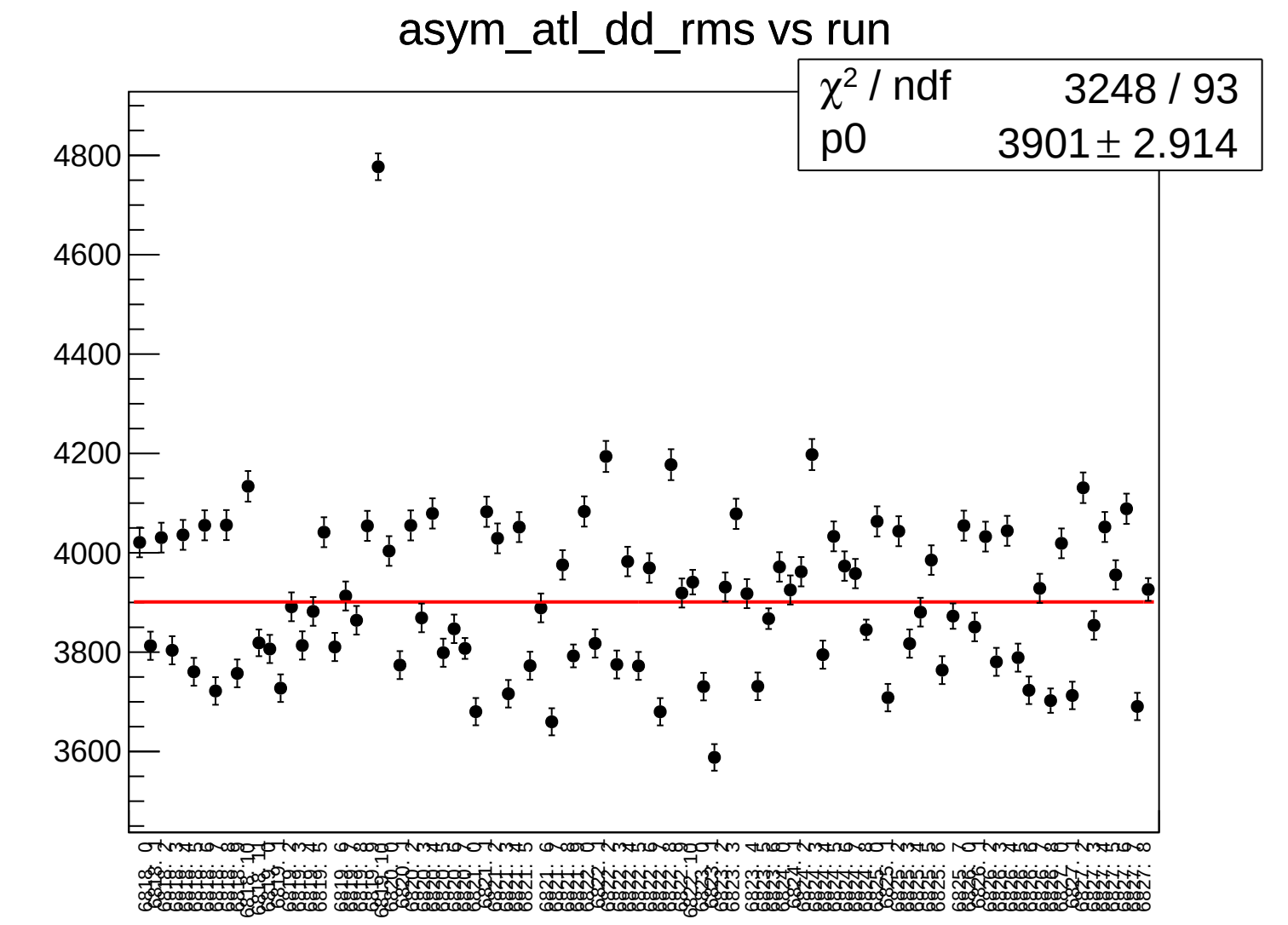

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.11 / 93
p0 −703.8 ± 3941
150
100
50
0
−50
−100
pull
Entries 94
Mean −6717
Std Dev 0
3
2
1
0
−1
−2

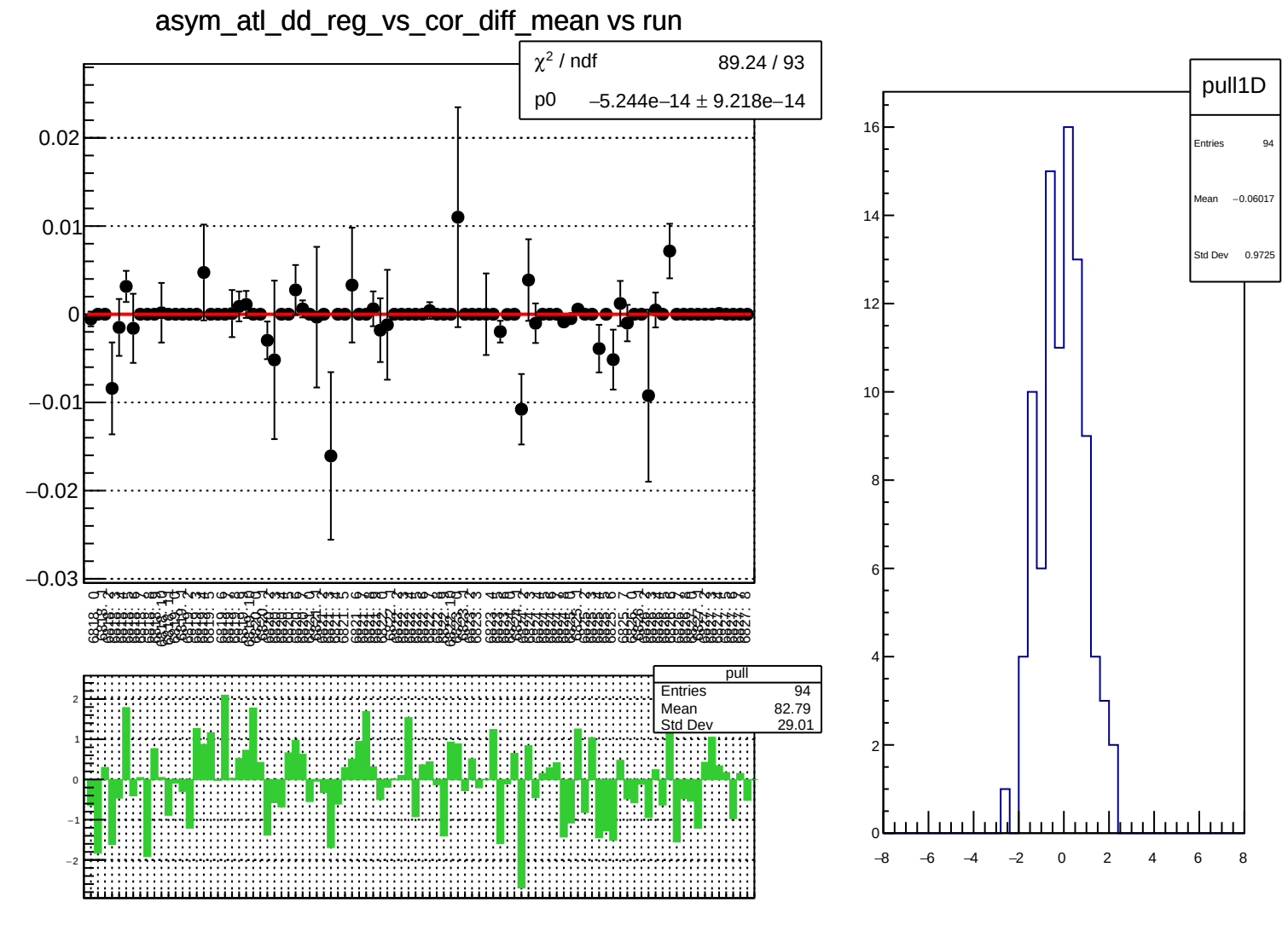

pull1D
Entries 94
Mean 0.0002132
Std Dev 0.9791
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

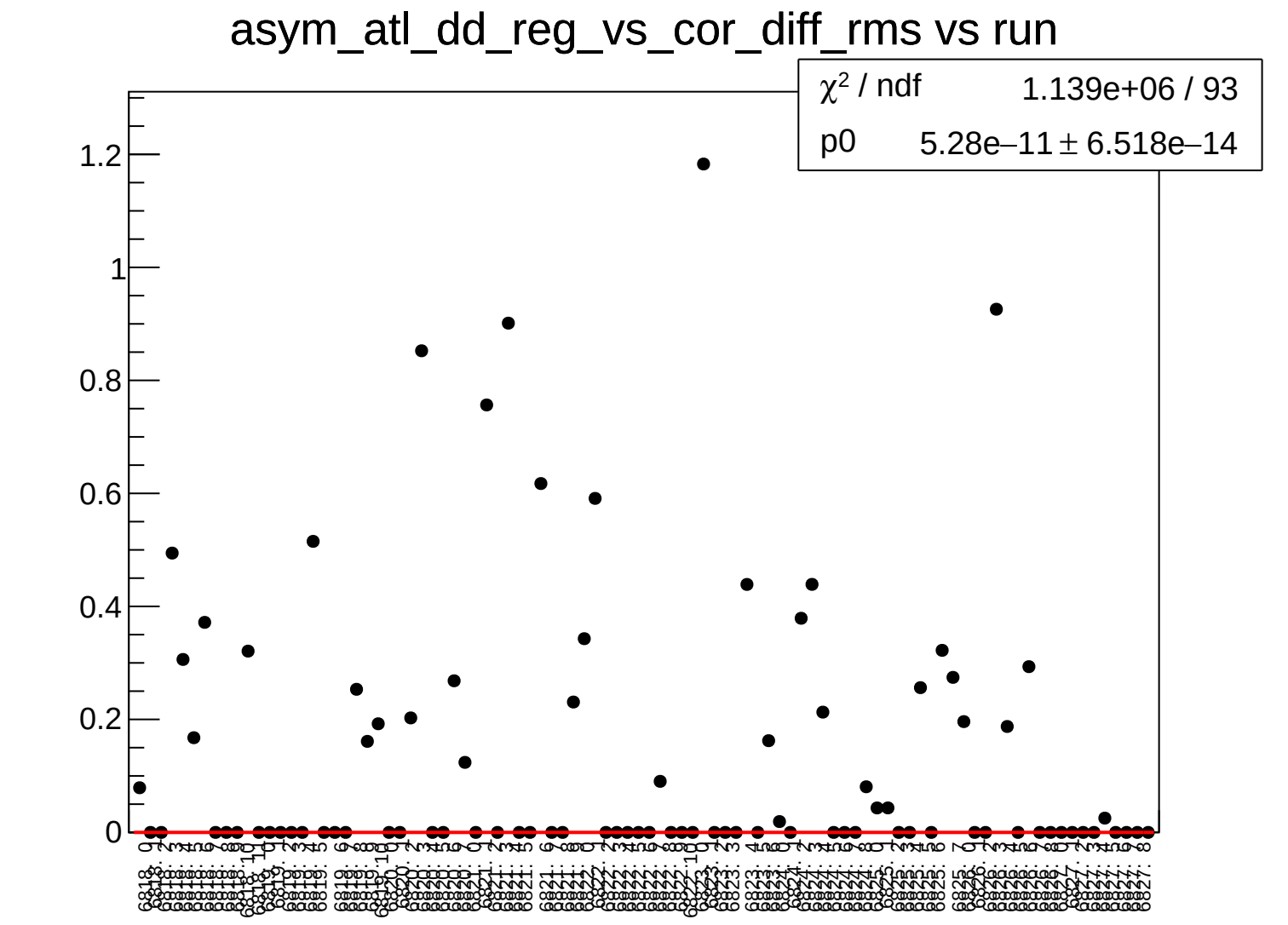

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4740 / 93
p0 3728 ± 2.786
4800
4600
4400
4200
4000
3800
3600
3400

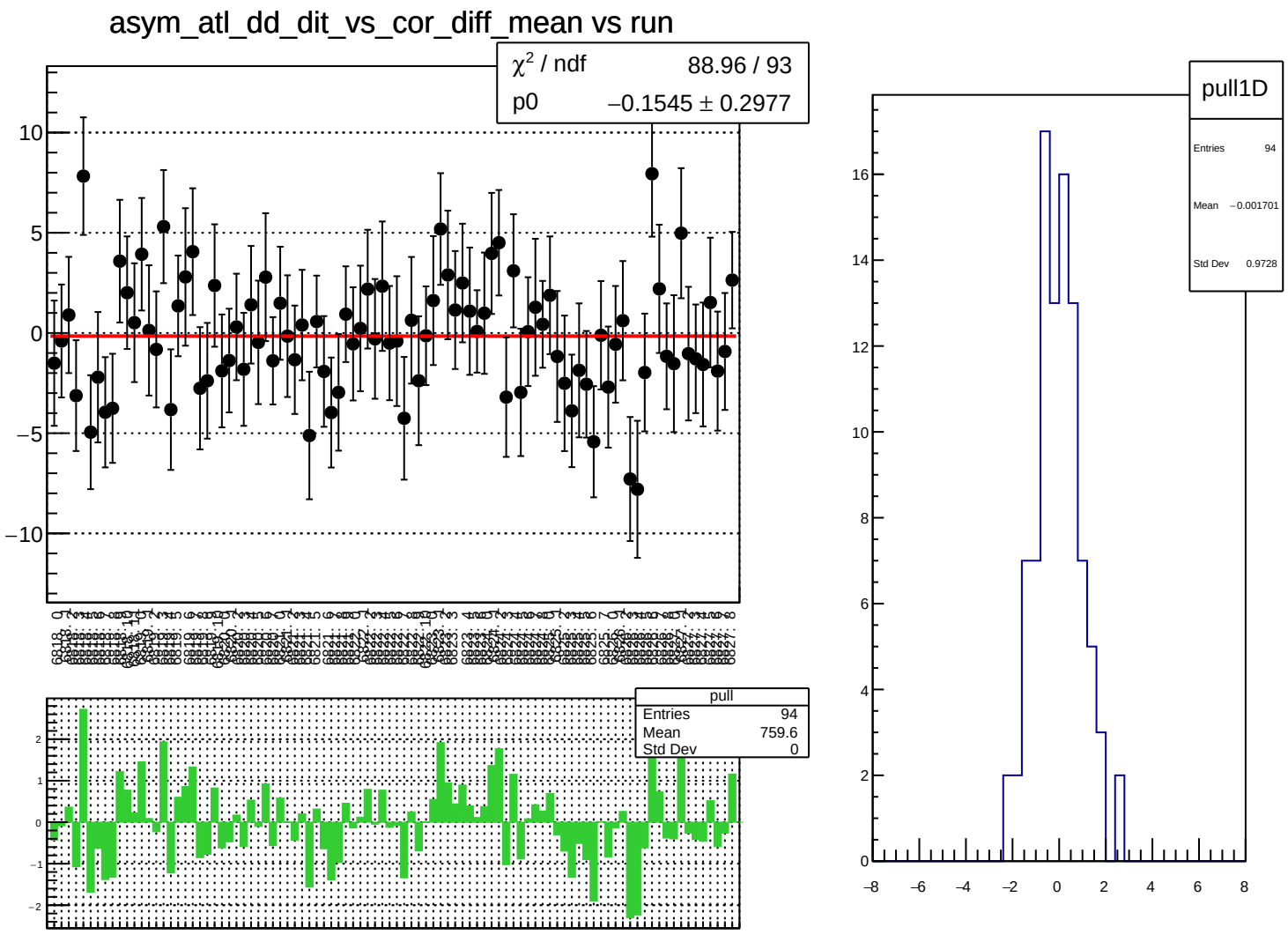

asym_atl_dd_mean vs run
×10^3
χ² / ndf 100.2 / 93
p0 1906 ± 4121
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 269.5
Std Dev 0
2
1
0
−1
−2
−3

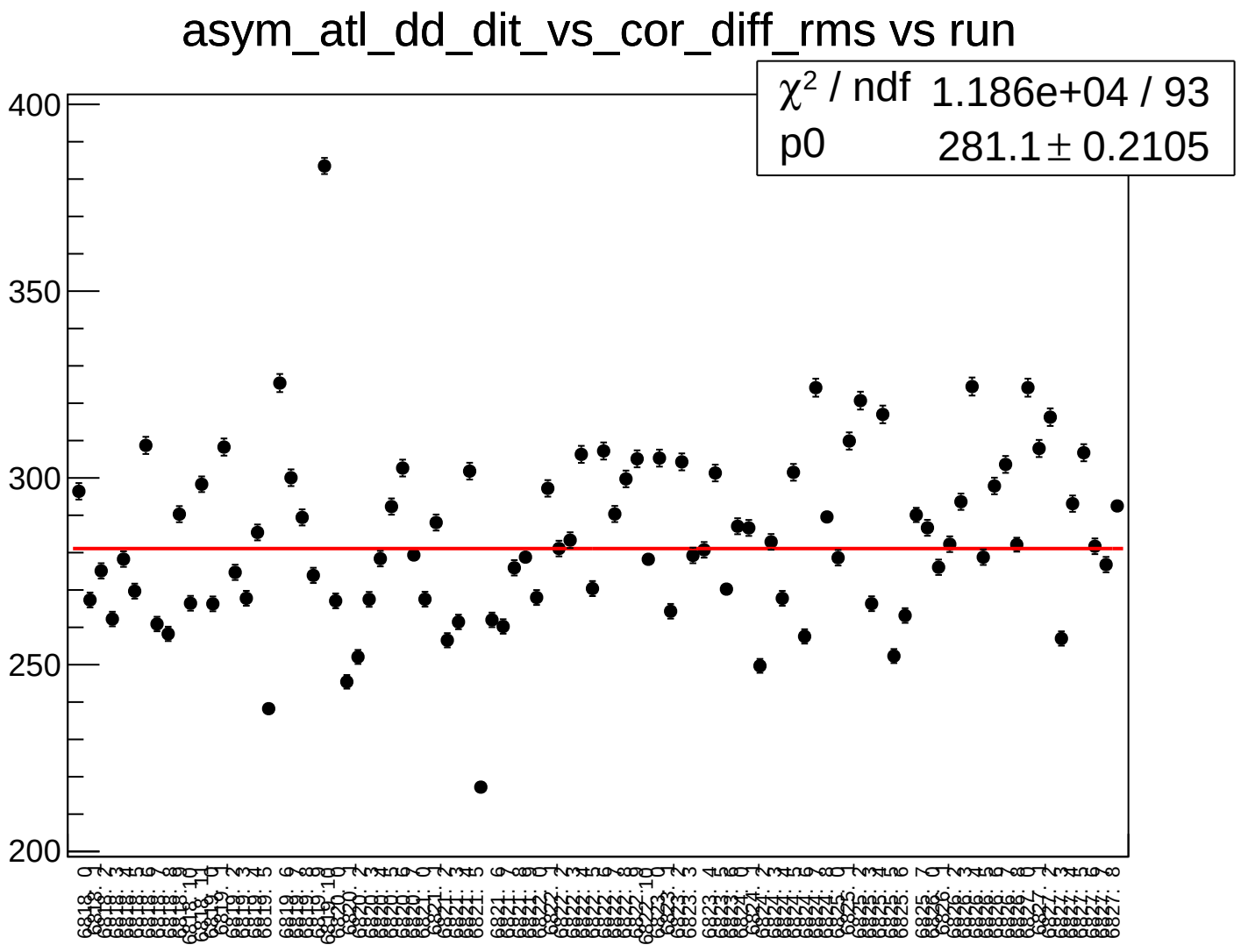

pull1D
Entries 94
Mean 0.004015
Std Dev 1.032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

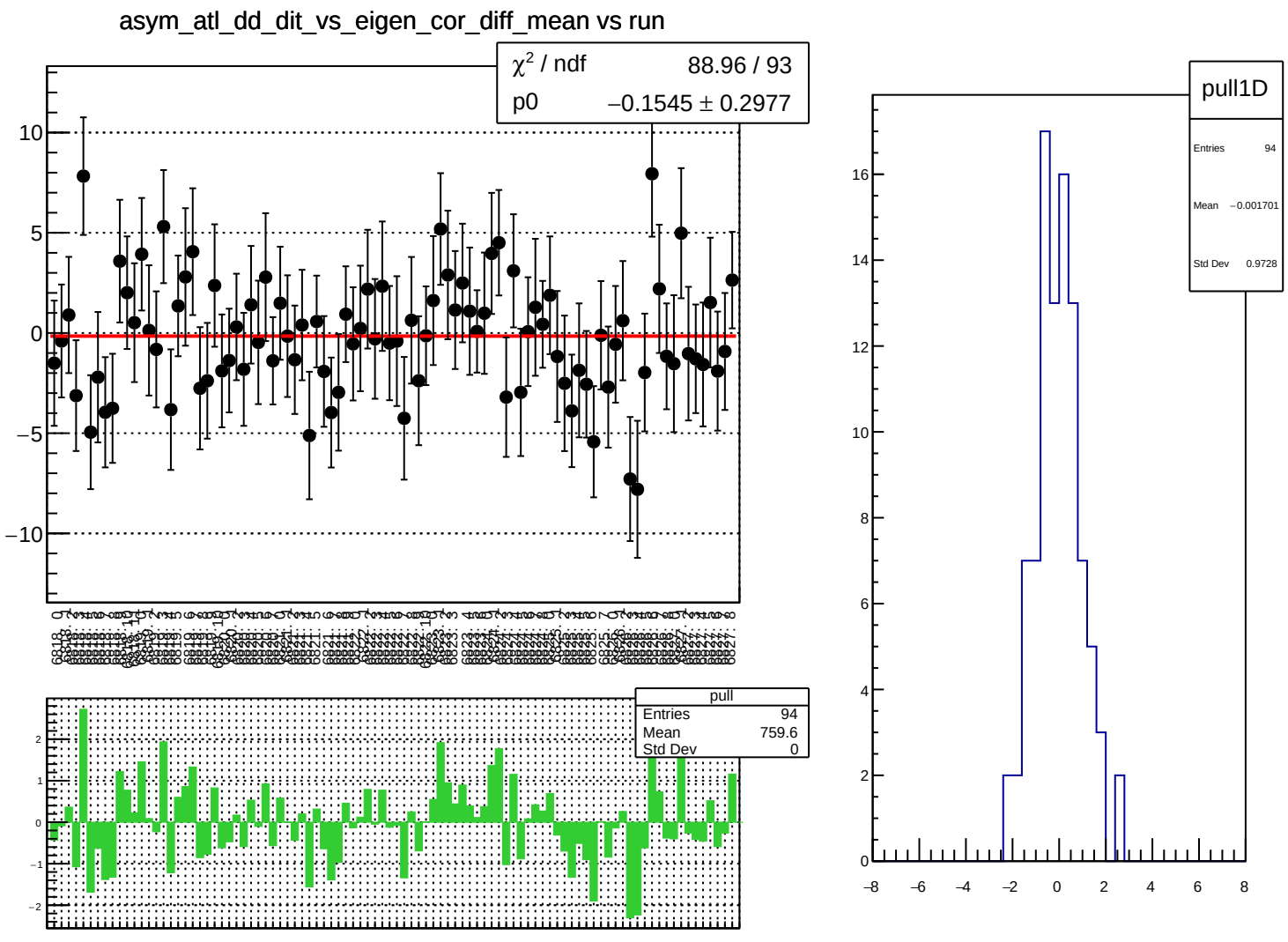

asym_atl_dd_rms vs run
χ² / ndf 3248 / 93
p0 3901 ± 2.914
4800
4600
4400
4200
4000
3800
3600

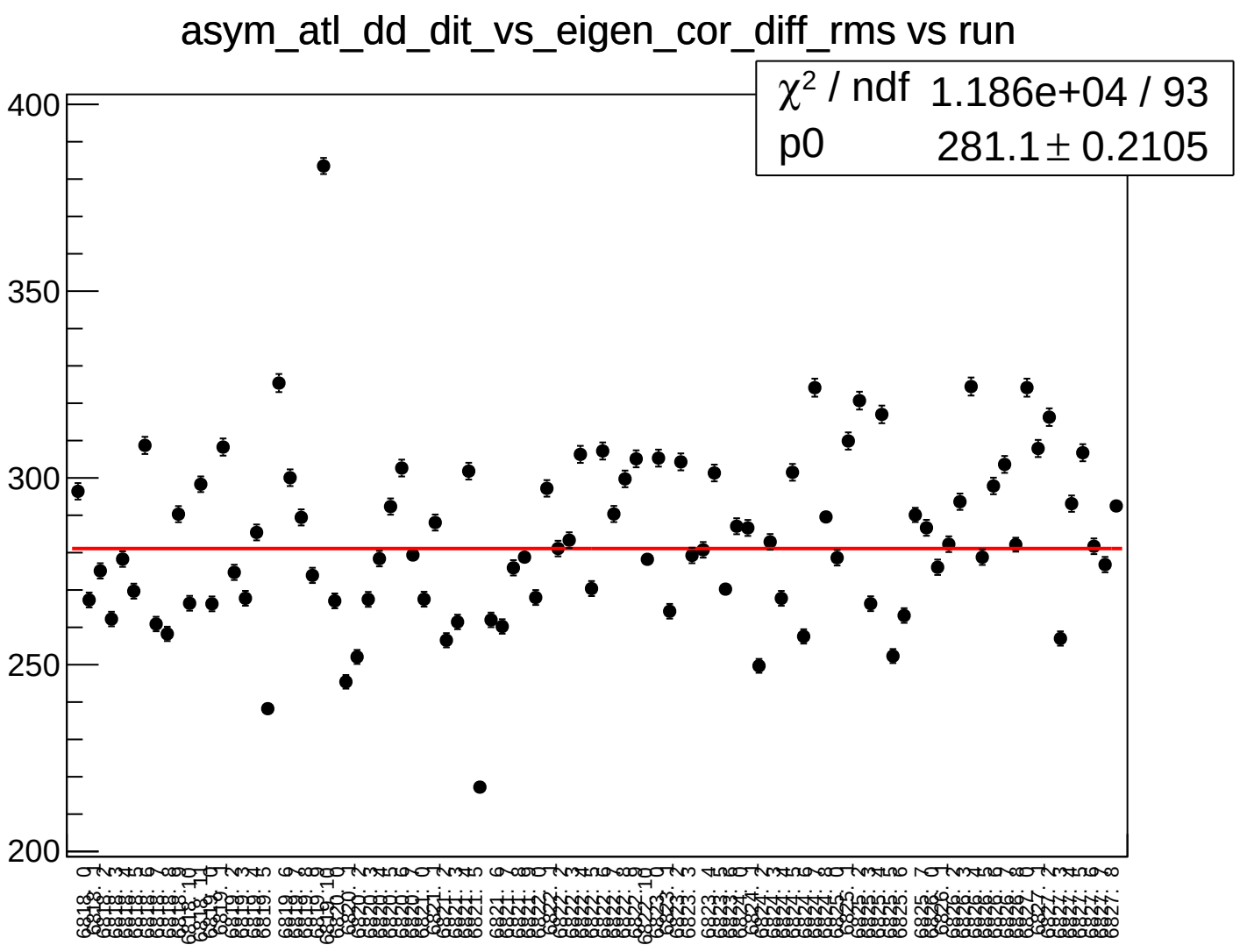

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.24 / 93
p0 −5.244e−14 ± 9.218e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 82.79
Std Dev 29.01
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.06017
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

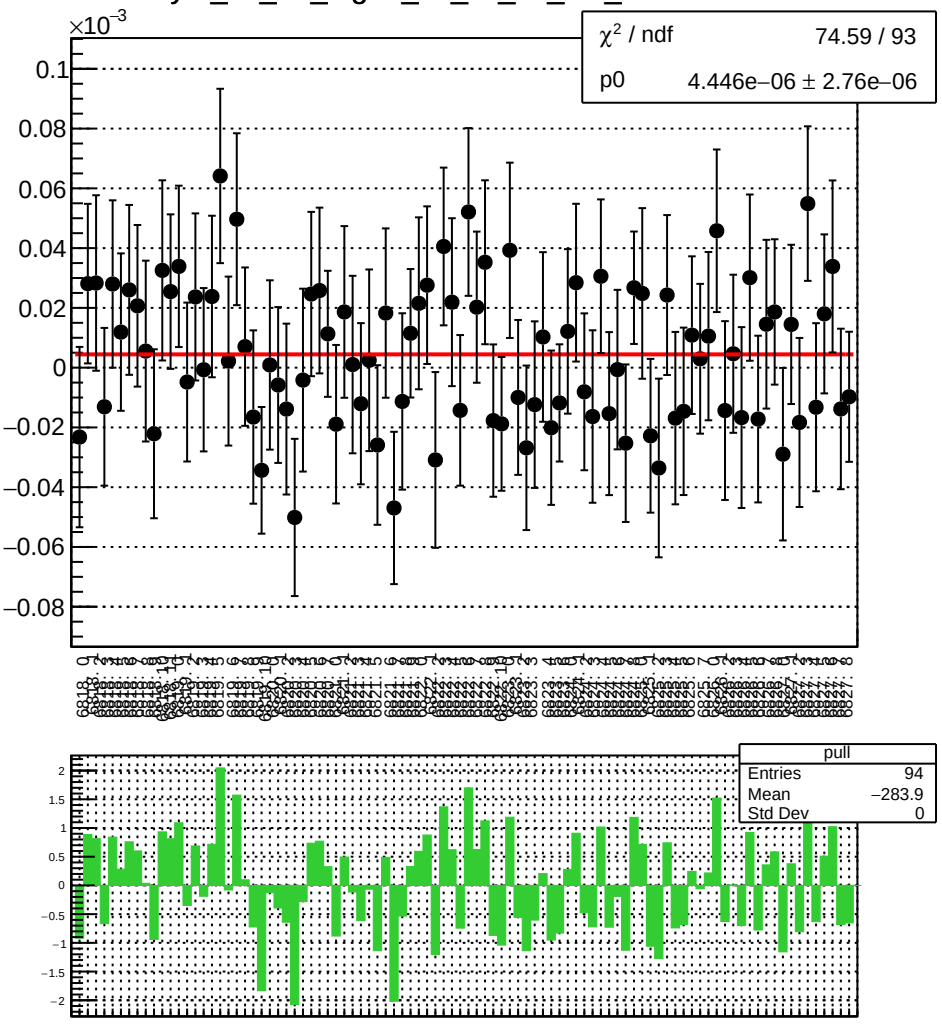

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.139e+06 / 93
p0 5.28e−11 ± 6.518e−14
1.2
1
0.8
0.6
0.4
0.2
0

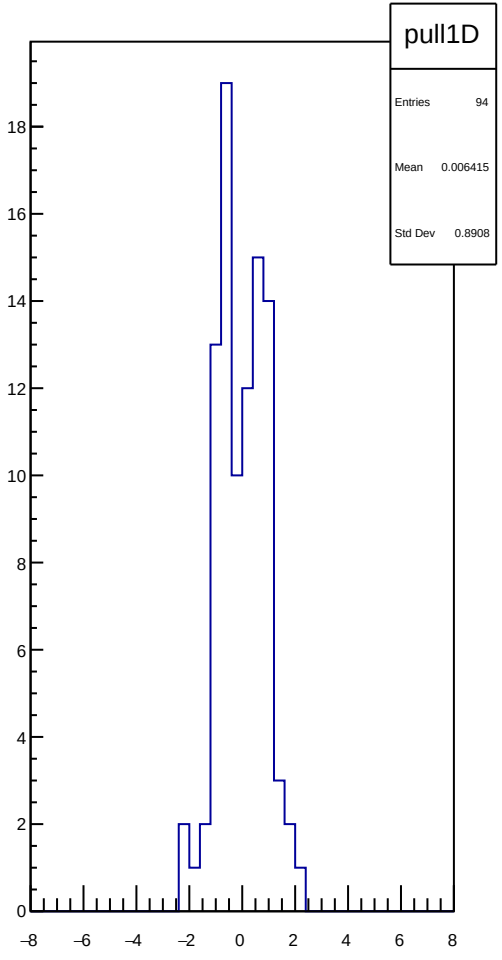

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.96 / 93
p0 −0.1545 ± 0.2977
pull
Entries 94
Mean 759.6
Std Dev 0
pull1D
Entries 94
Mean −0.001701
Std Dev 0.9728

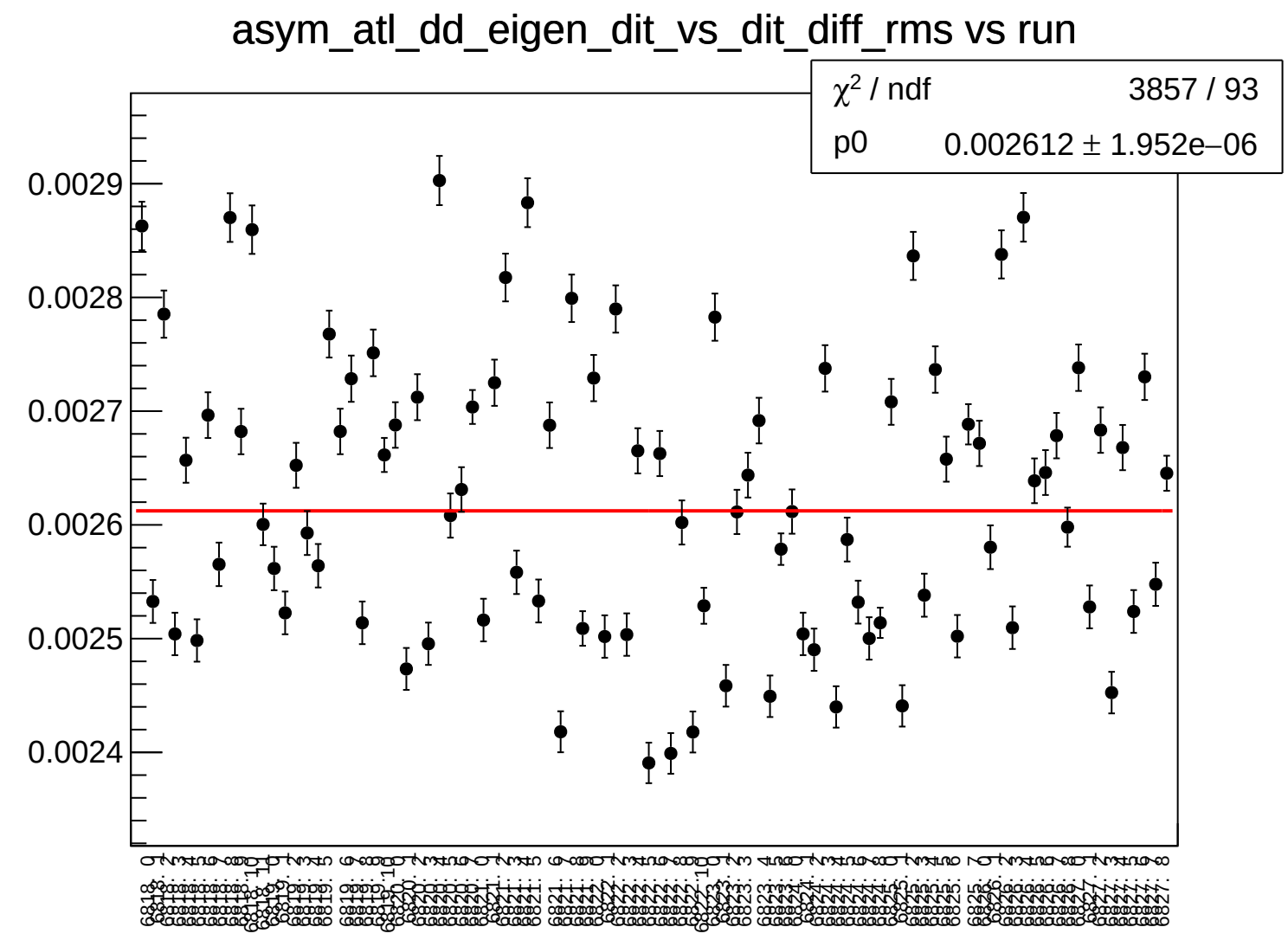

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 93
p0 281.1 ± 0.2105
400
350
300
250
200

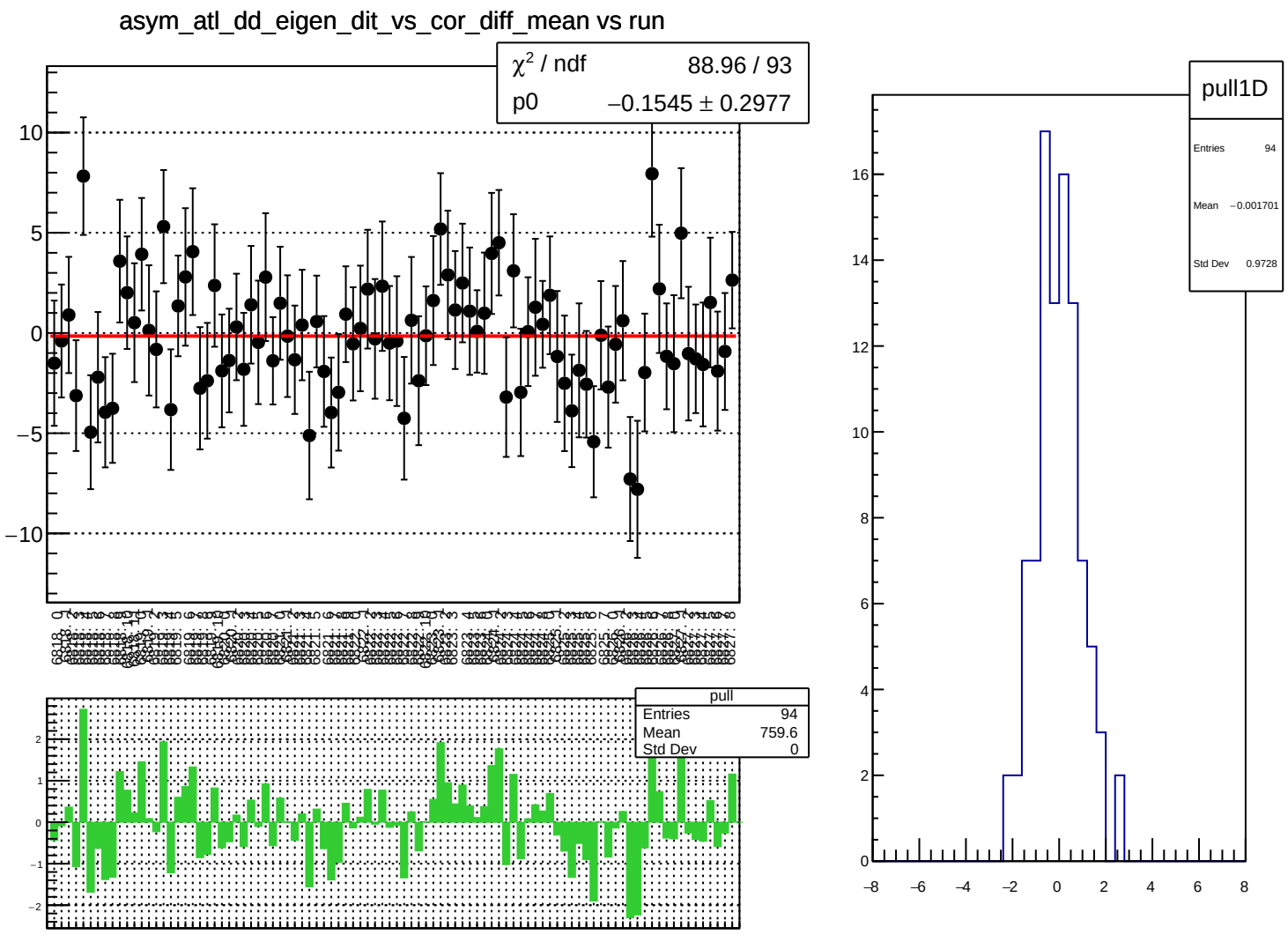

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.96 / 93
p0 −0.1545 ± 0.2977
pull
Entries 94
Mean 759.6
Std Dev 0
pull1D
Entries 94
Mean −0.001701
Std Dev 0.9728

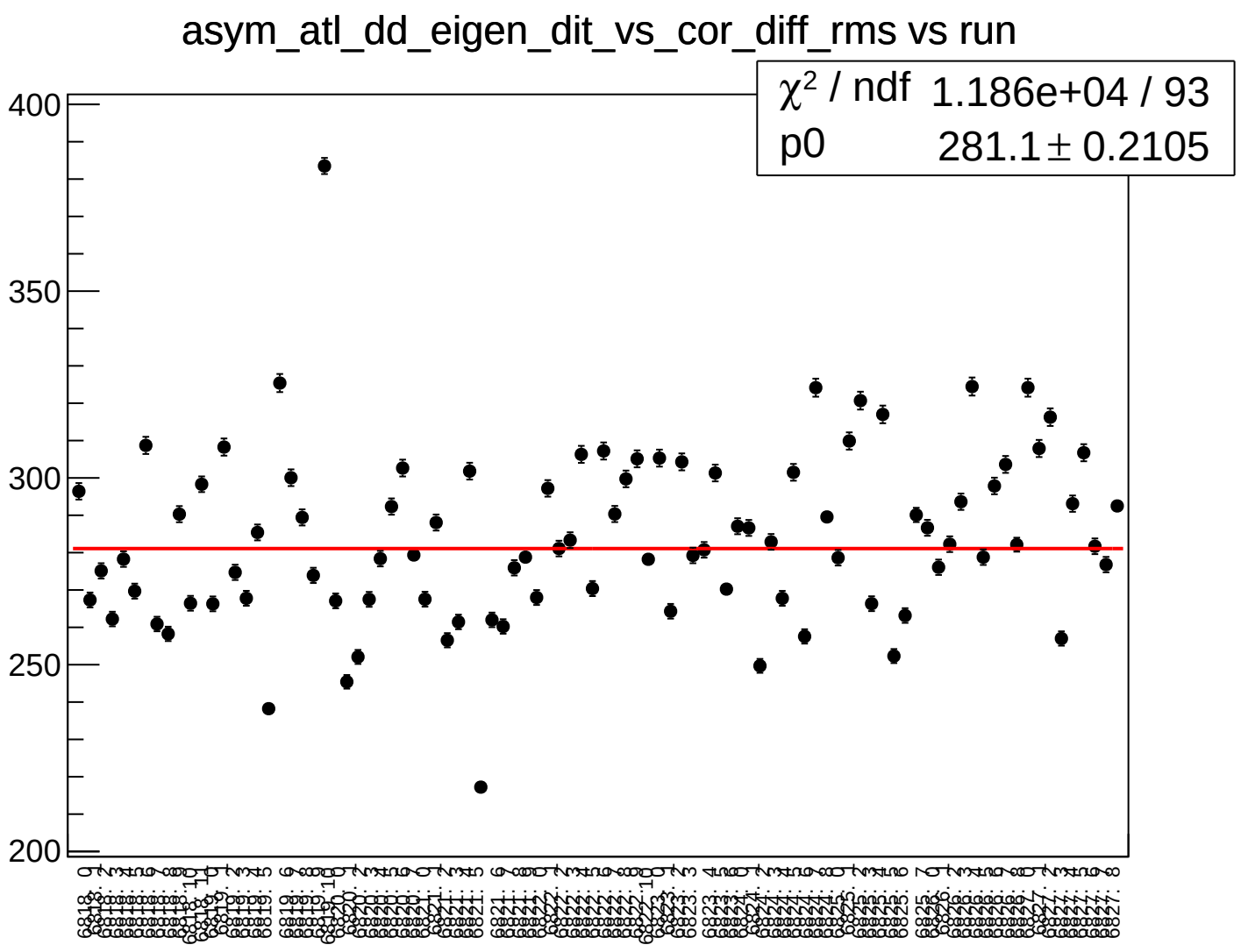

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 93
p0 281.1 ± 0.2105
400
350
300
250
200

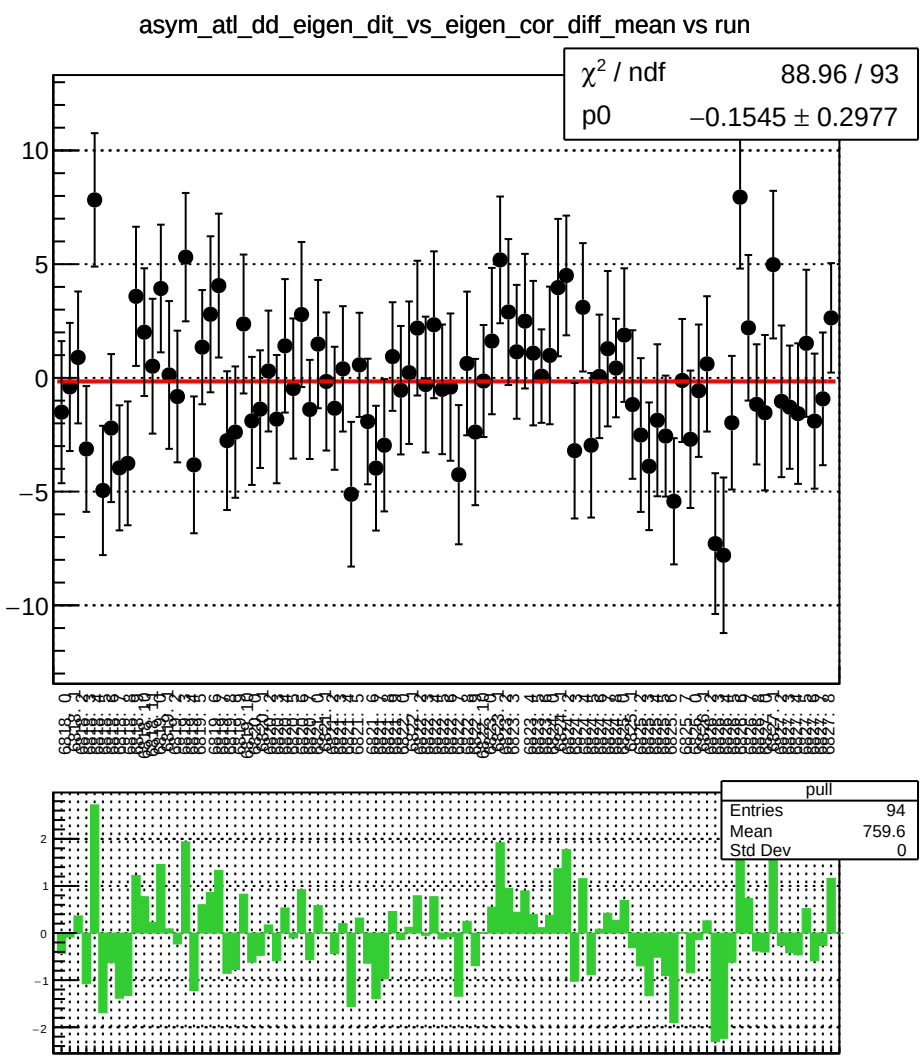

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.59 / 93
p0 4.446e−06 ± 2.76e−06
pull
Entries 94
Mean −283.9
Std Dev 0

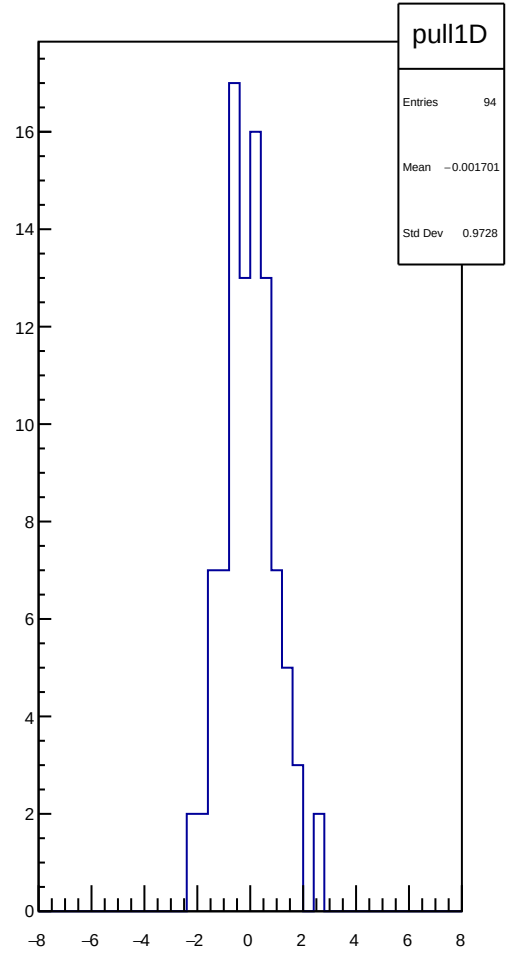

pull1D
Entries 94
Mean 0.006415
Std Dev 0.8908

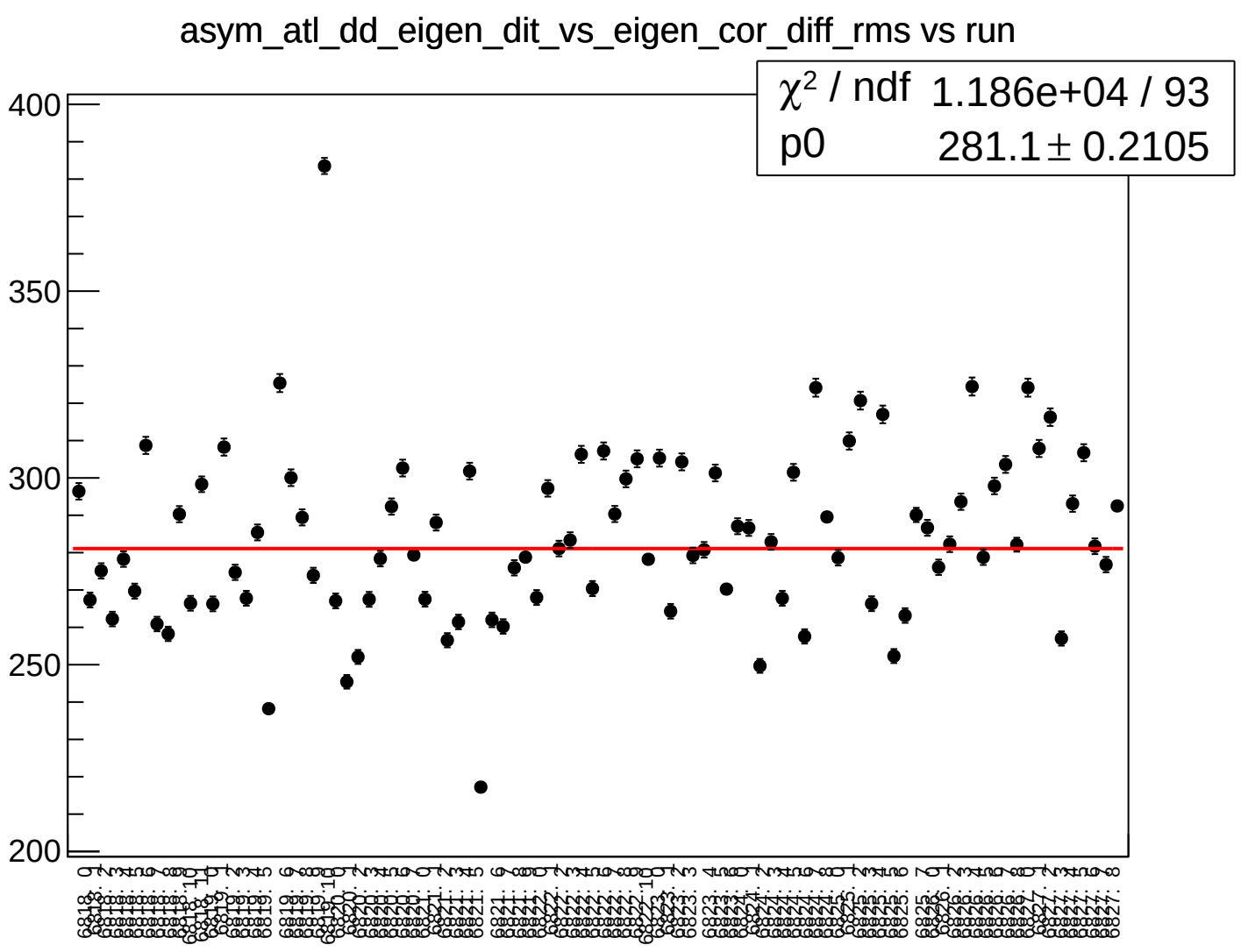

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3857 / 93
p0 0.002612 ± 1.952e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

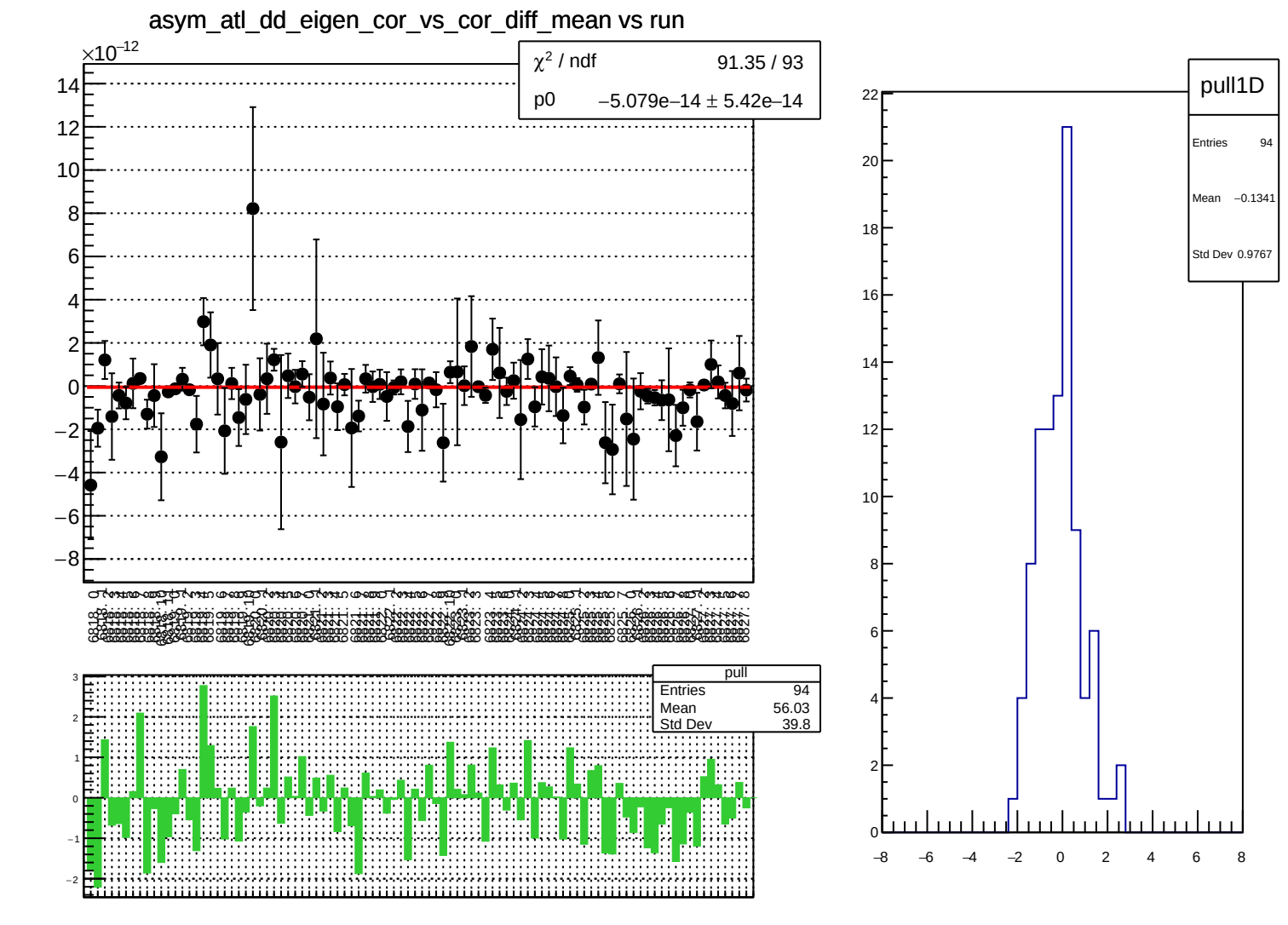

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.96 / 93
p0 −0.1545 ± 0.2977
pull
Entries 94
Mean 759.6
Std Dev 0
pull1D
Entries 94
Mean −0.001701
Std Dev 0.9728

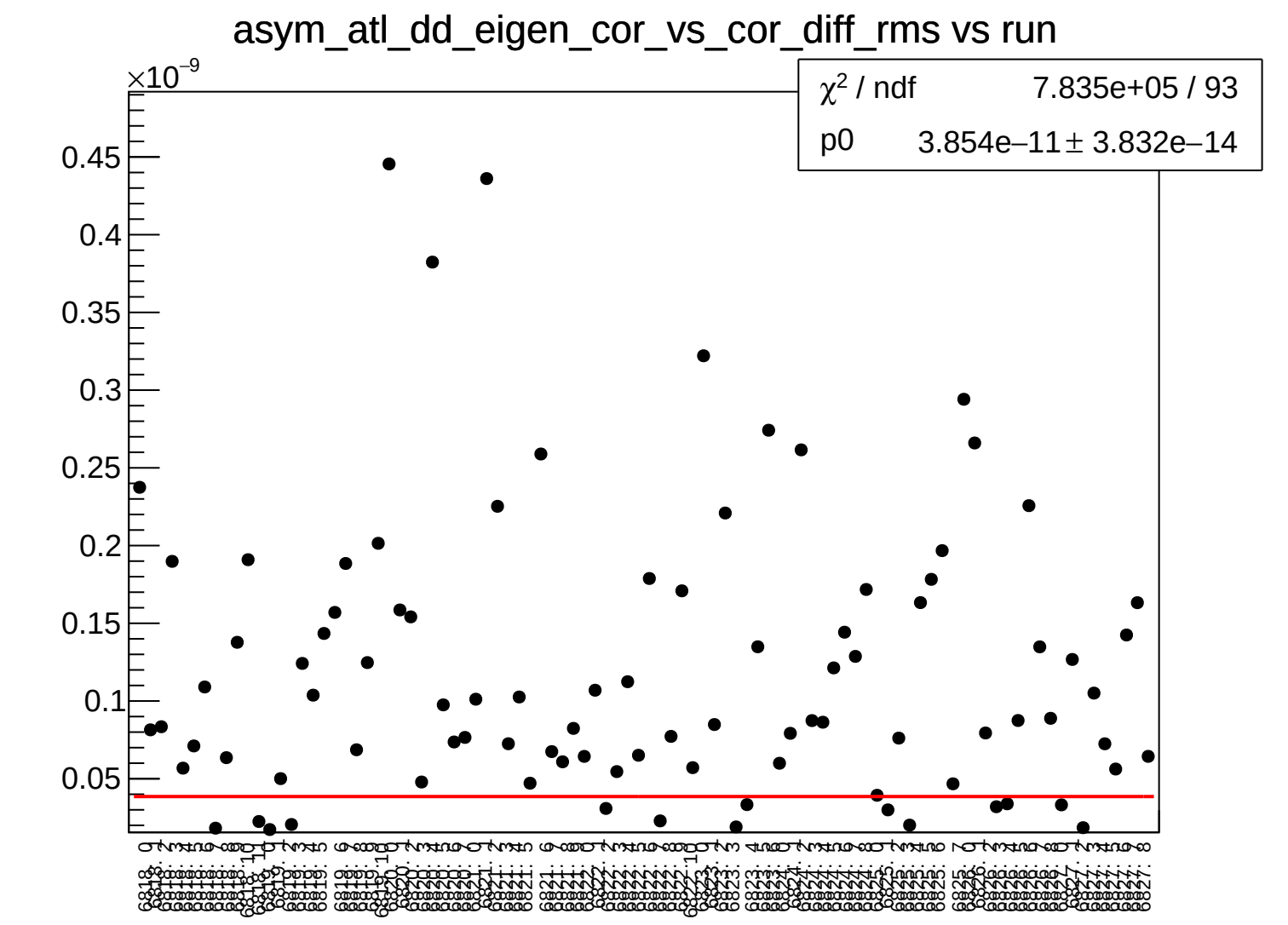

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 93
p0 281.1 ± 0.2105
400
350
300
250
200

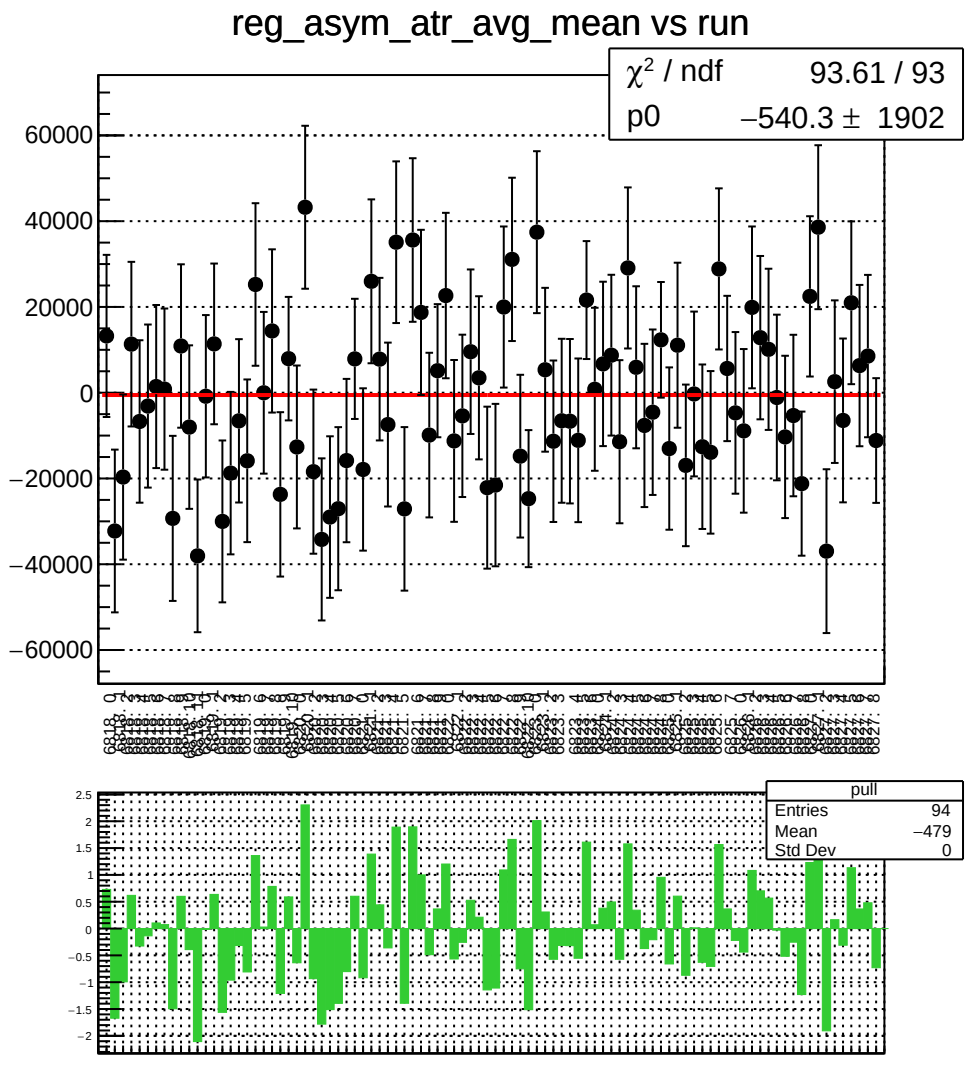

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.96 / 93
p0 −0.1545 ± 0.2977
pull
Entries 94
Mean 759.6
Std Dev 0

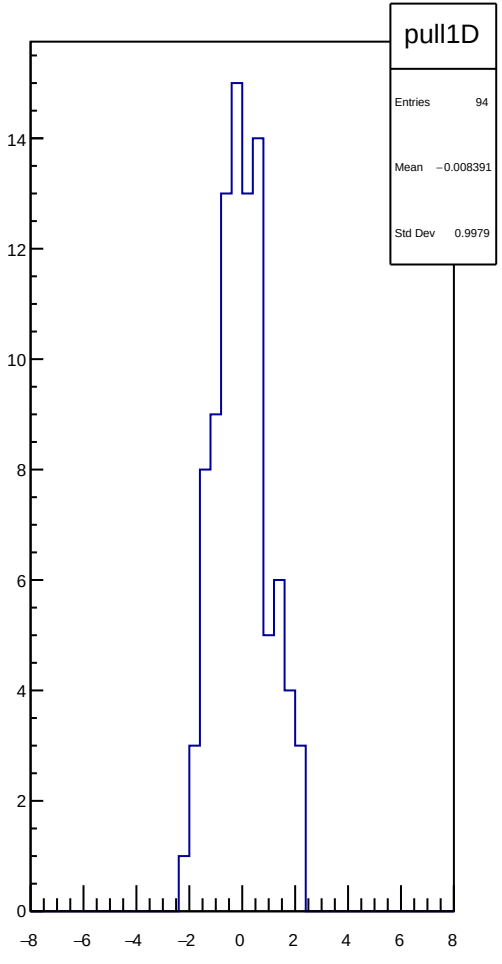

pull1D
Entries 94
Mean −0.001701
Std Dev 0.9728

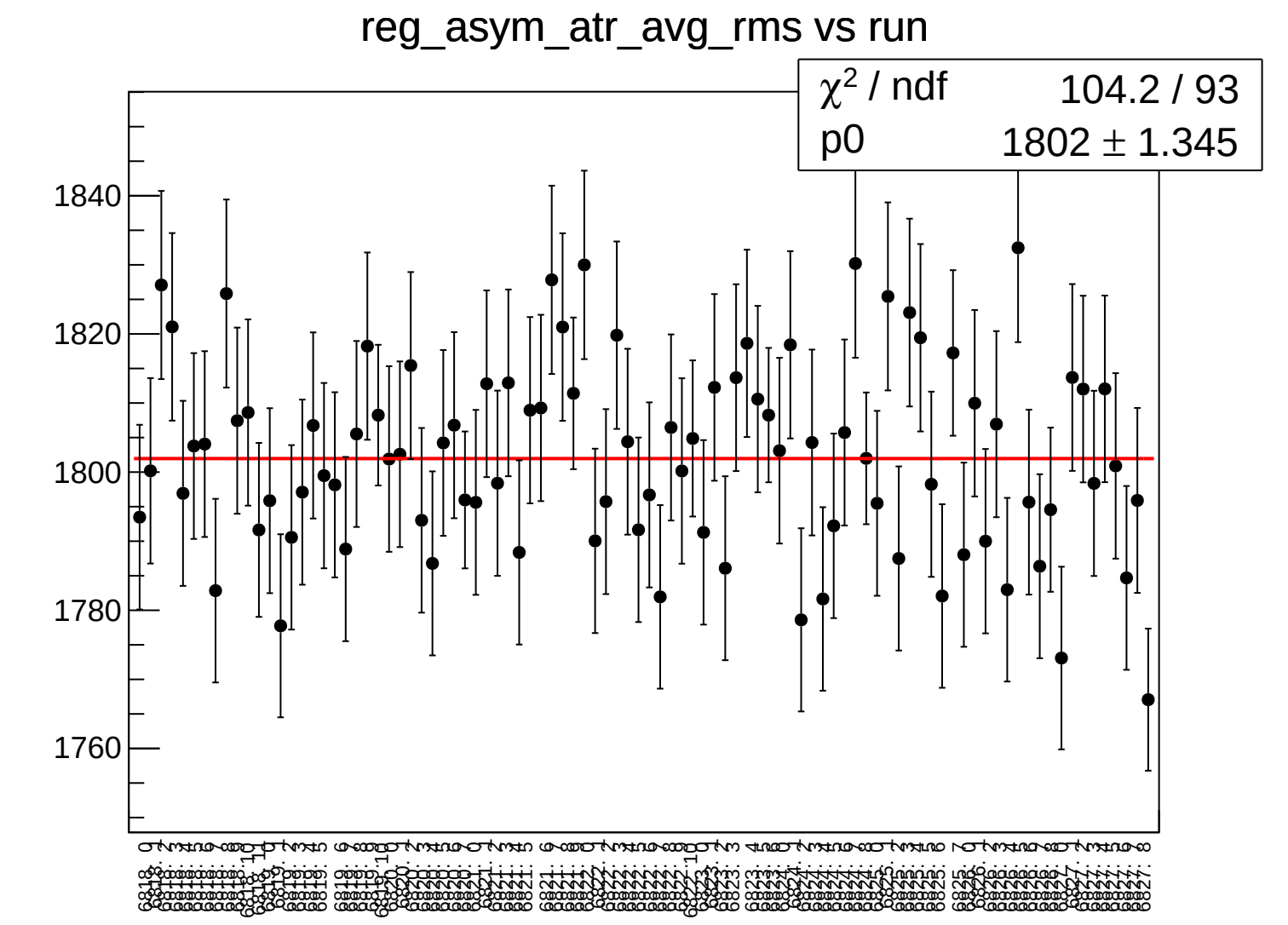

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.186e+04 / 93
p0 281.1 ± 0.2105
400
350
300
250
200

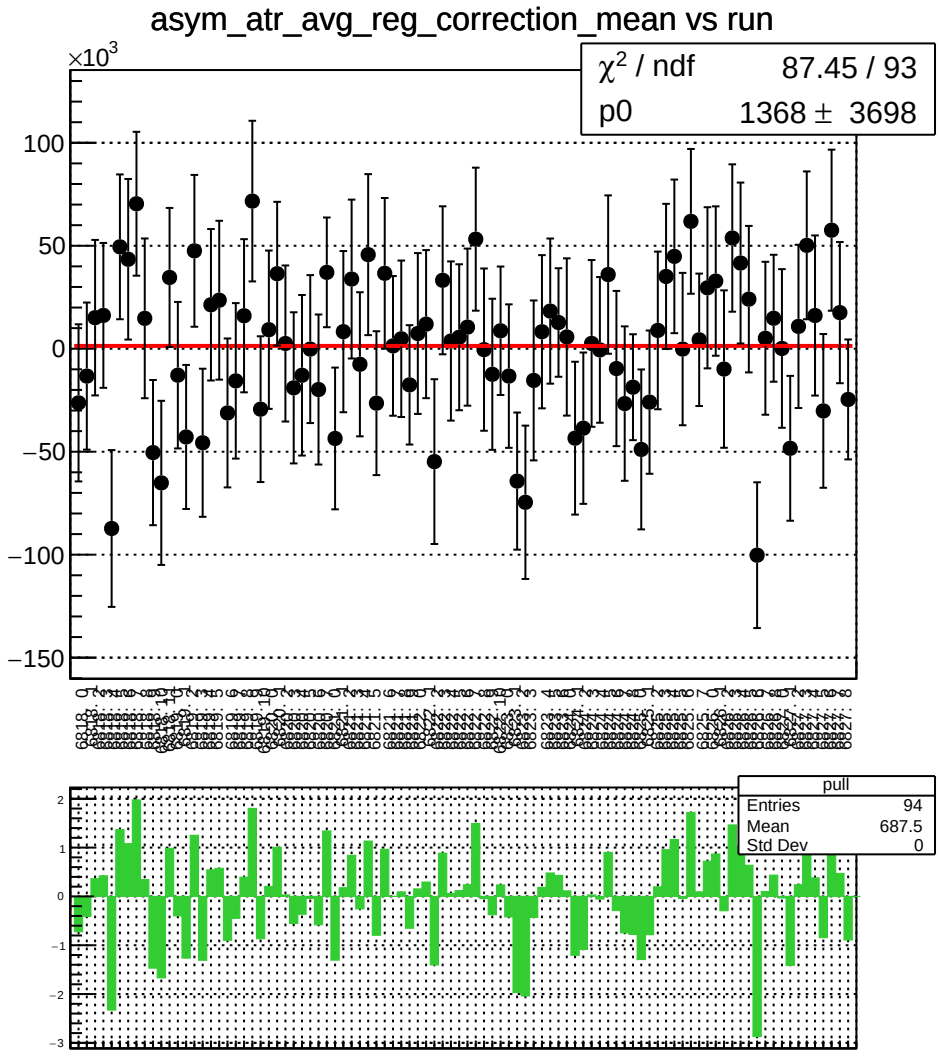

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 91.35 / 93
p0 −5.079e−14 ± 5.42e−14
pull
Entries 94
Mean 56.03
Std Dev 39.8
pull1D
Entries 94
Mean −0.1341
Std Dev 0.9767

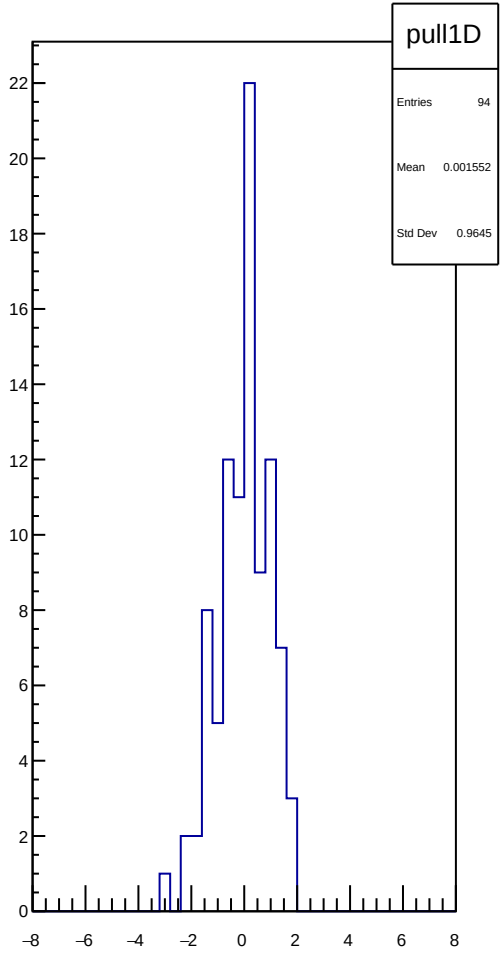

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.835e+05 / 93
p0 3.854e−11 ± 3.832e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

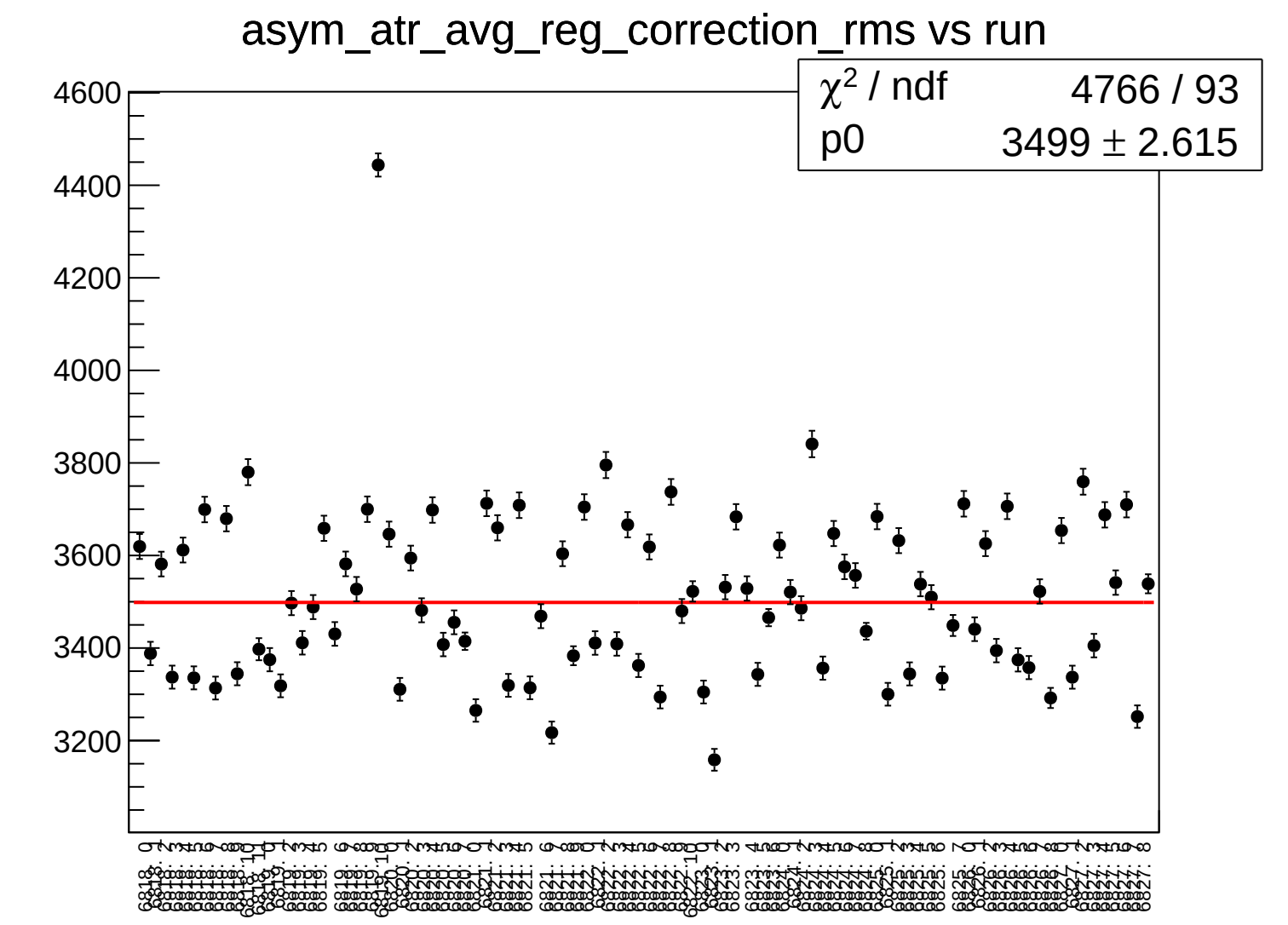

reg_asym_atr_avg_mean vs run
χ² / ndf 93.61 / 93
p0 −540.3 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −479
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

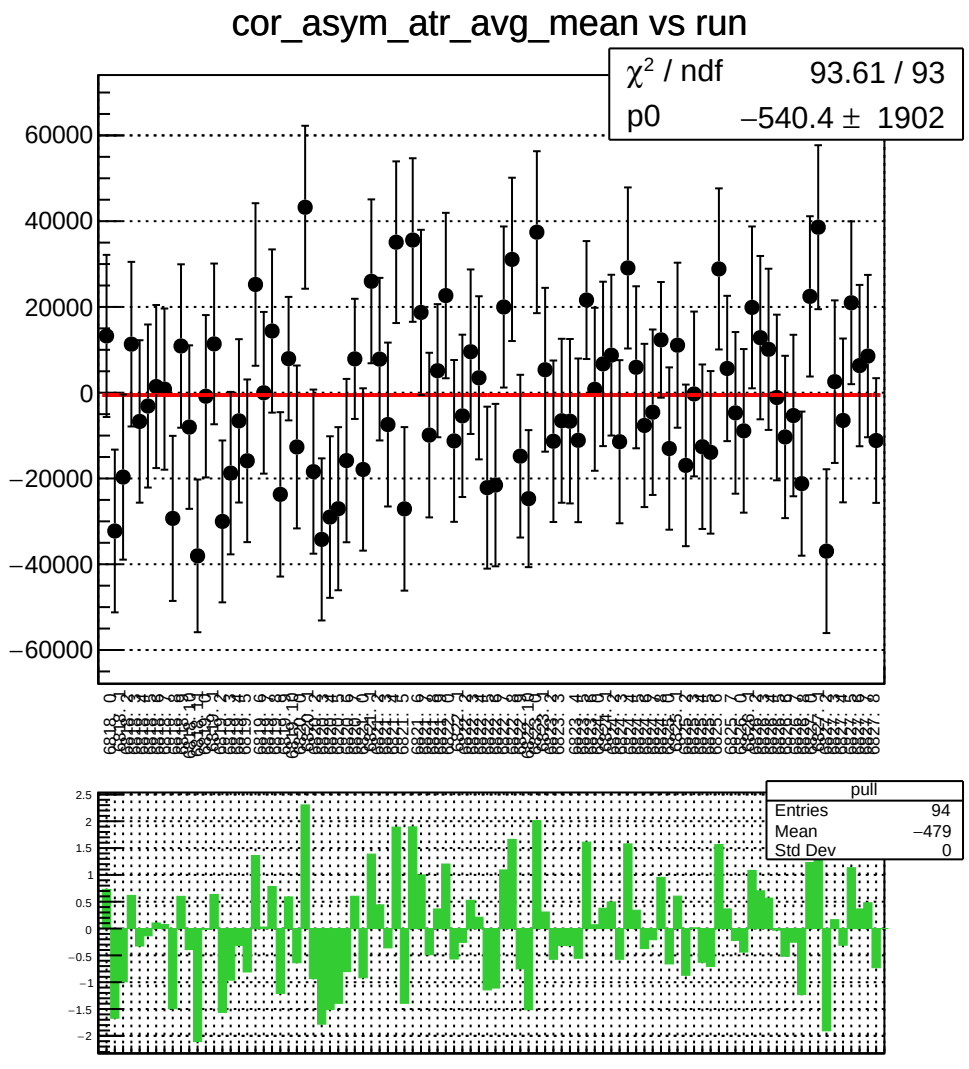

pull1D
Entries 94
Mean −0.008391
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

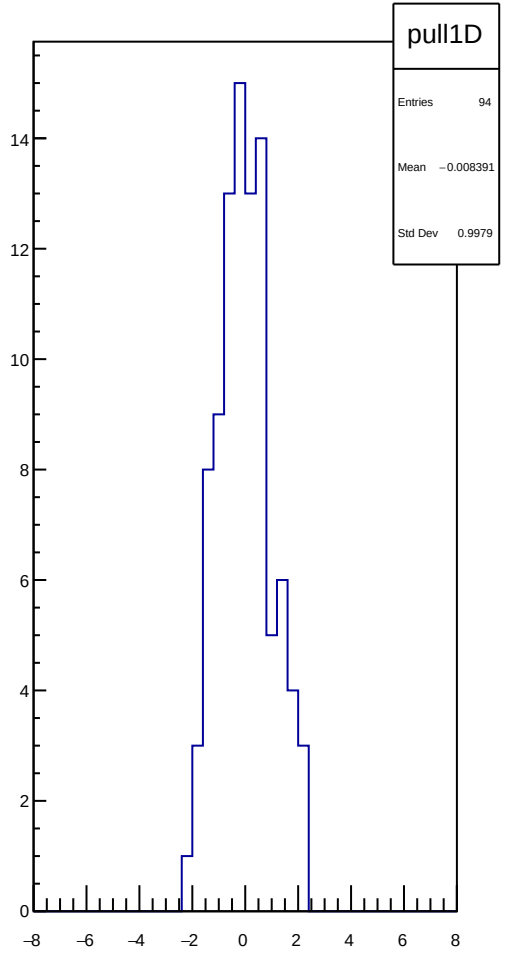

reg_asym_atr_avg_rms vs run
χ^2 / ndf 104.2 / 93
p0 1802 ± 1.345
1840
1820
1800
1780
1760

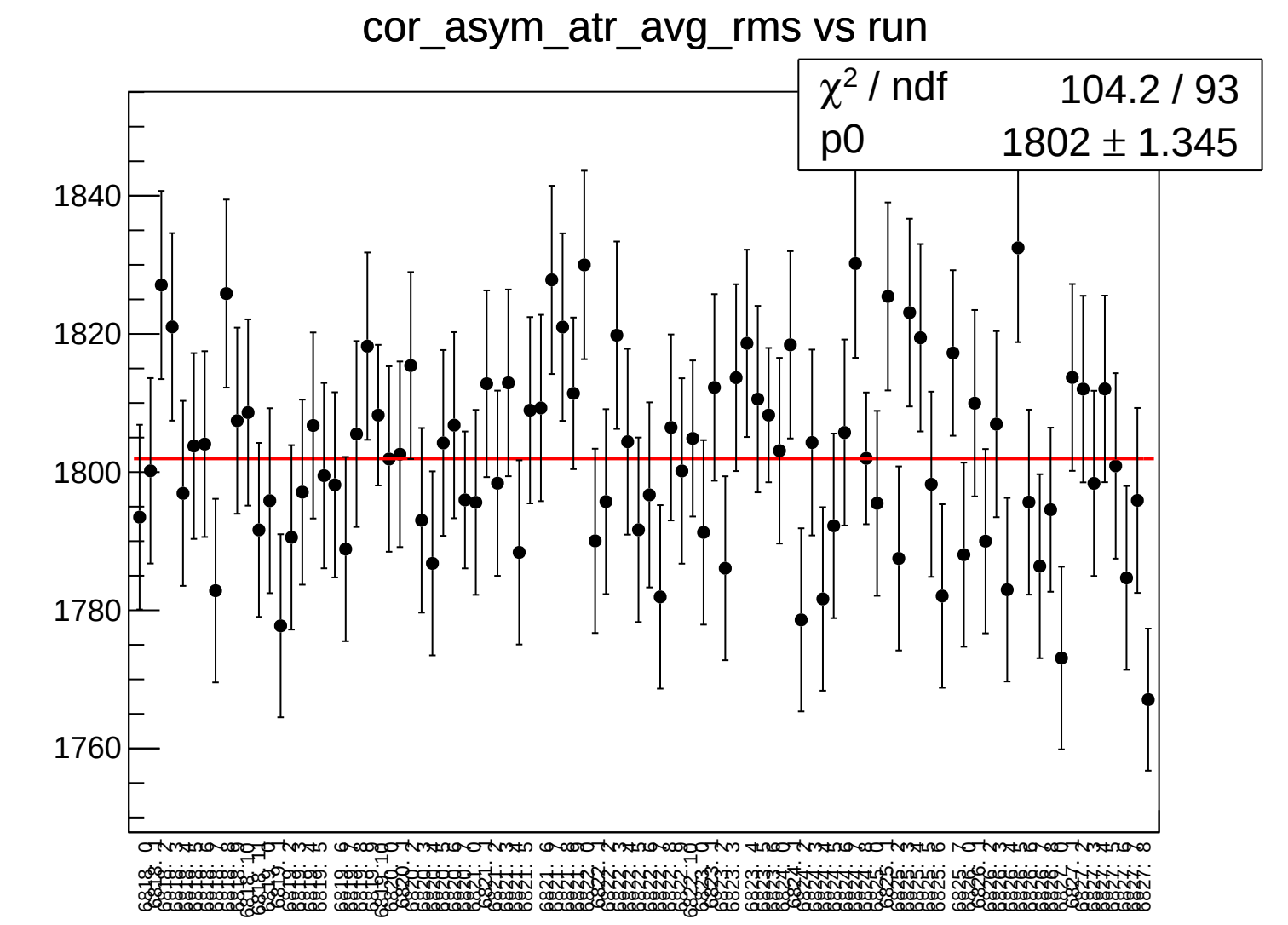

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.45 / 93
p0 1368 ± 3698
100
50
0
−50
−100
−150
pull
Entries 94
Mean 687.5
Std Dev 0
2
1
0
−1
−2
−3

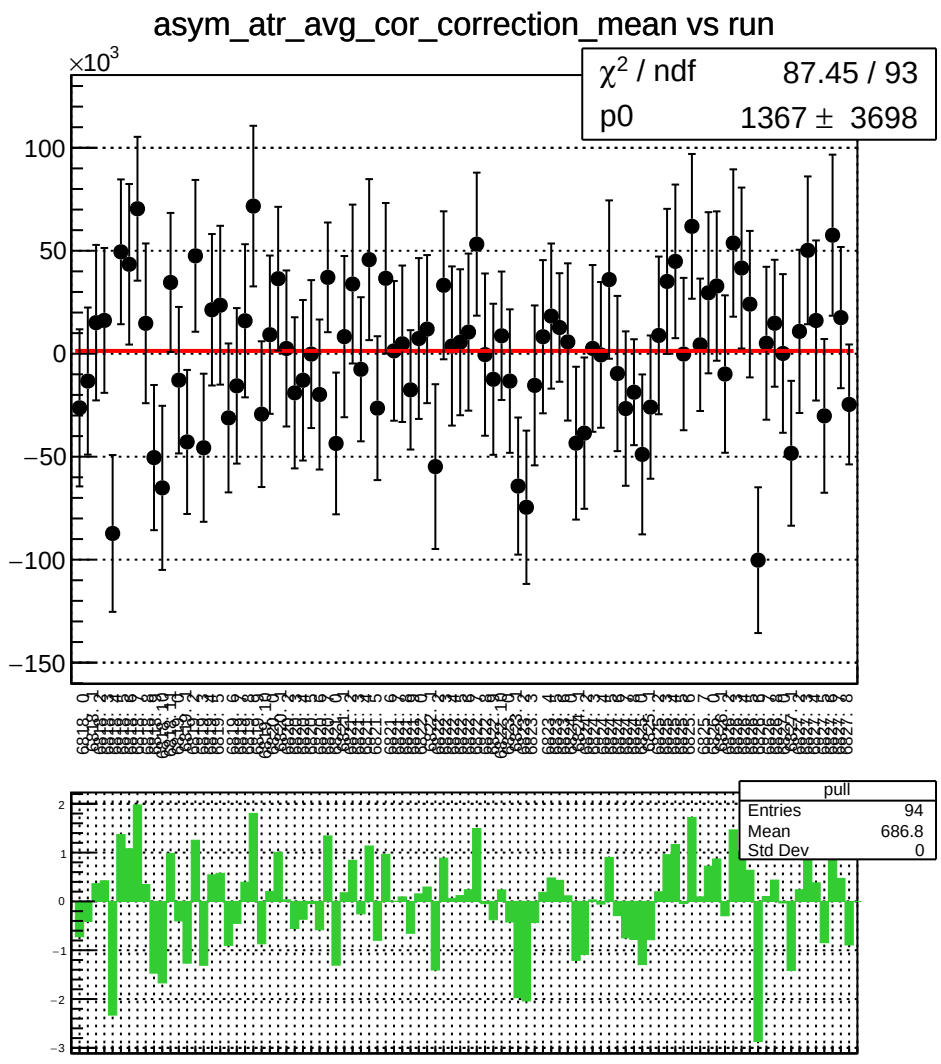

pull1D
Entries 94
Mean 0.001552
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

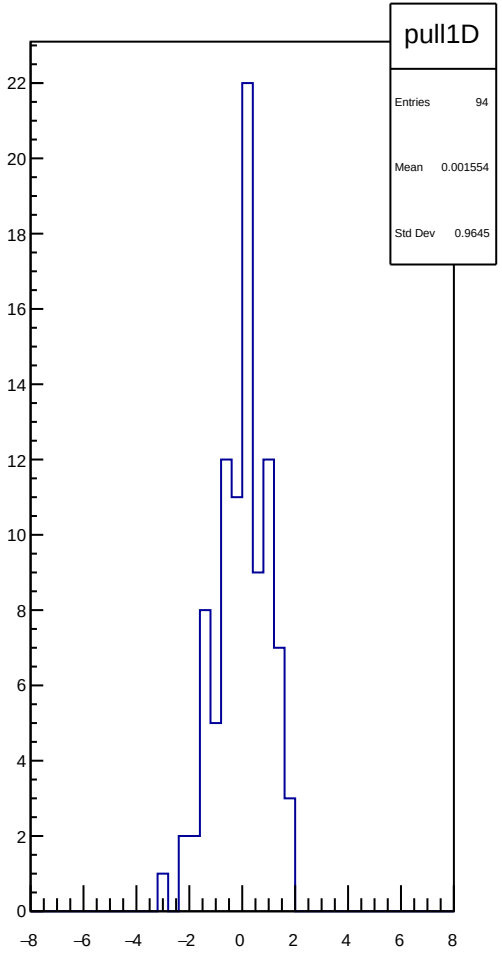

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4766 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200

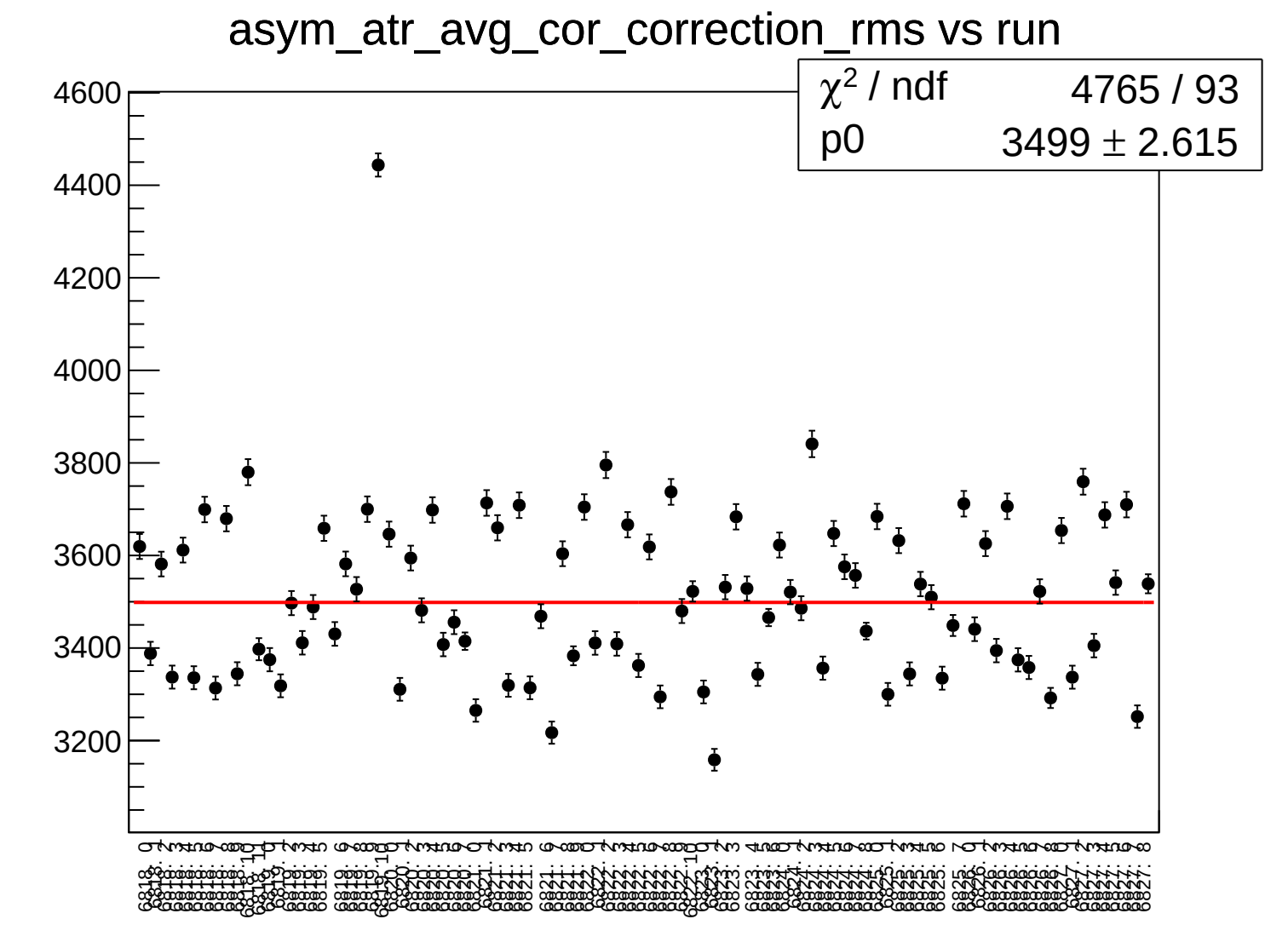

cor_asym_atr_avg_mean vs run
χ² / ndf 93.61 / 93
p0 −540.4 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −479
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

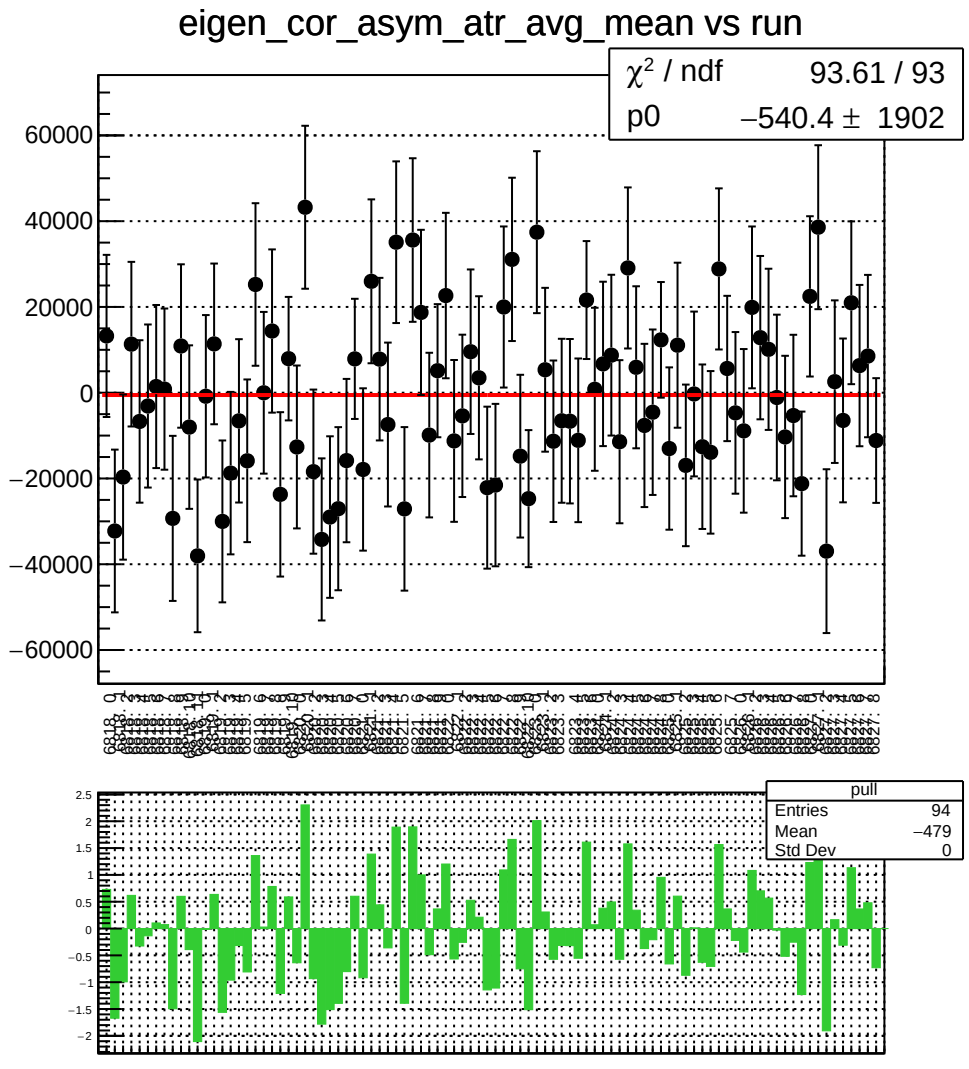

pull1D
Entries 94
Mean −0.008391
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

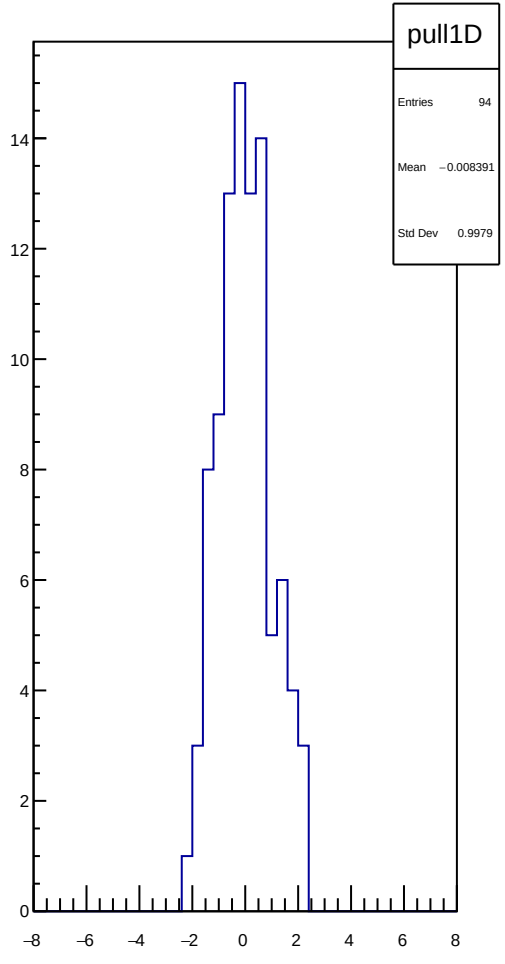

cor_asym_atr_avg_rms vs run
χ^2 / ndf 104.2 / 93
p0 1802 ± 1.345
1840
1820
1800
1780
1760

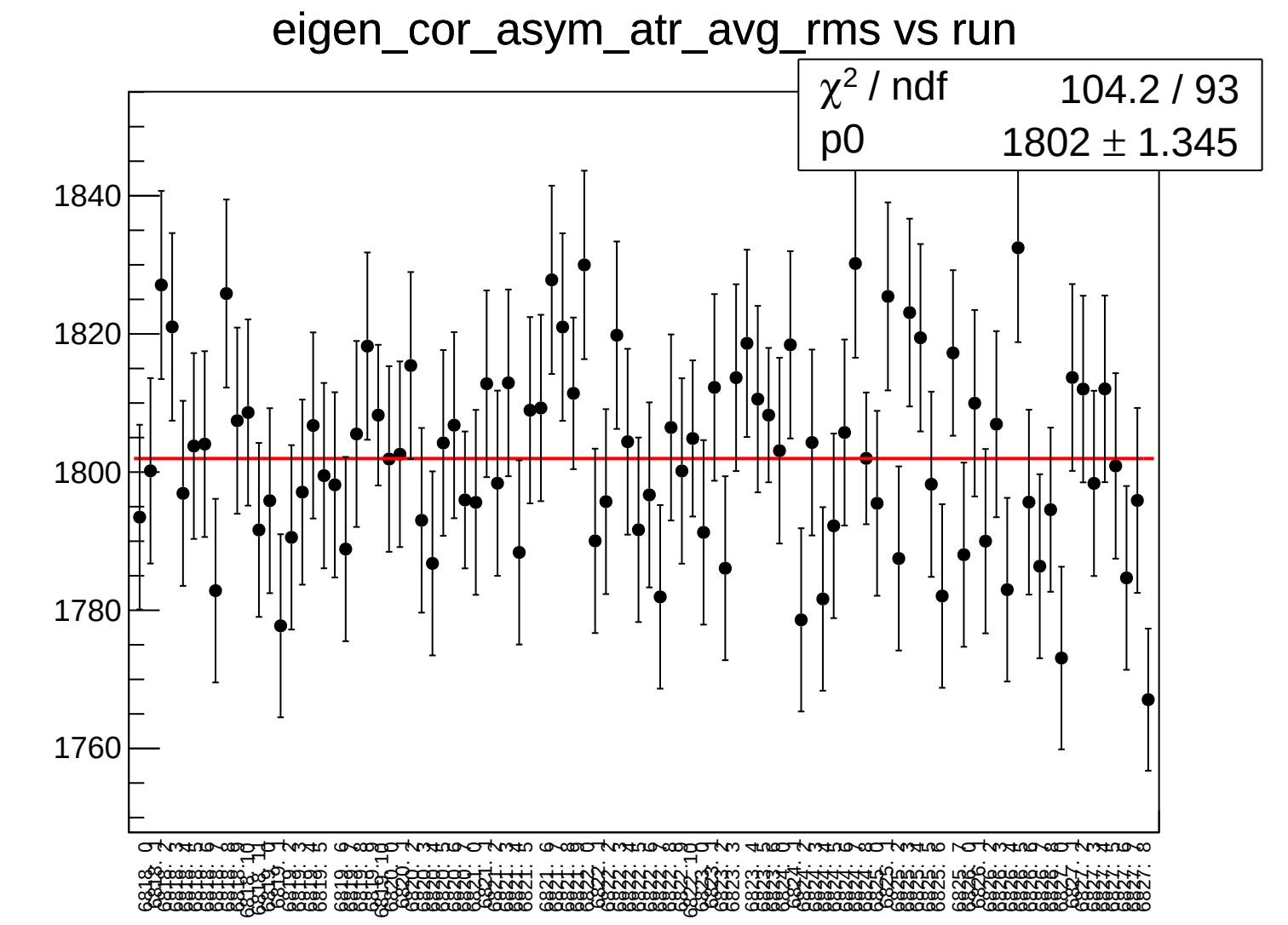

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 87.45 / 93
p0 1367 ± 3698
×10³
pull
Entries 94
Mean 686.8
Std Dev 0

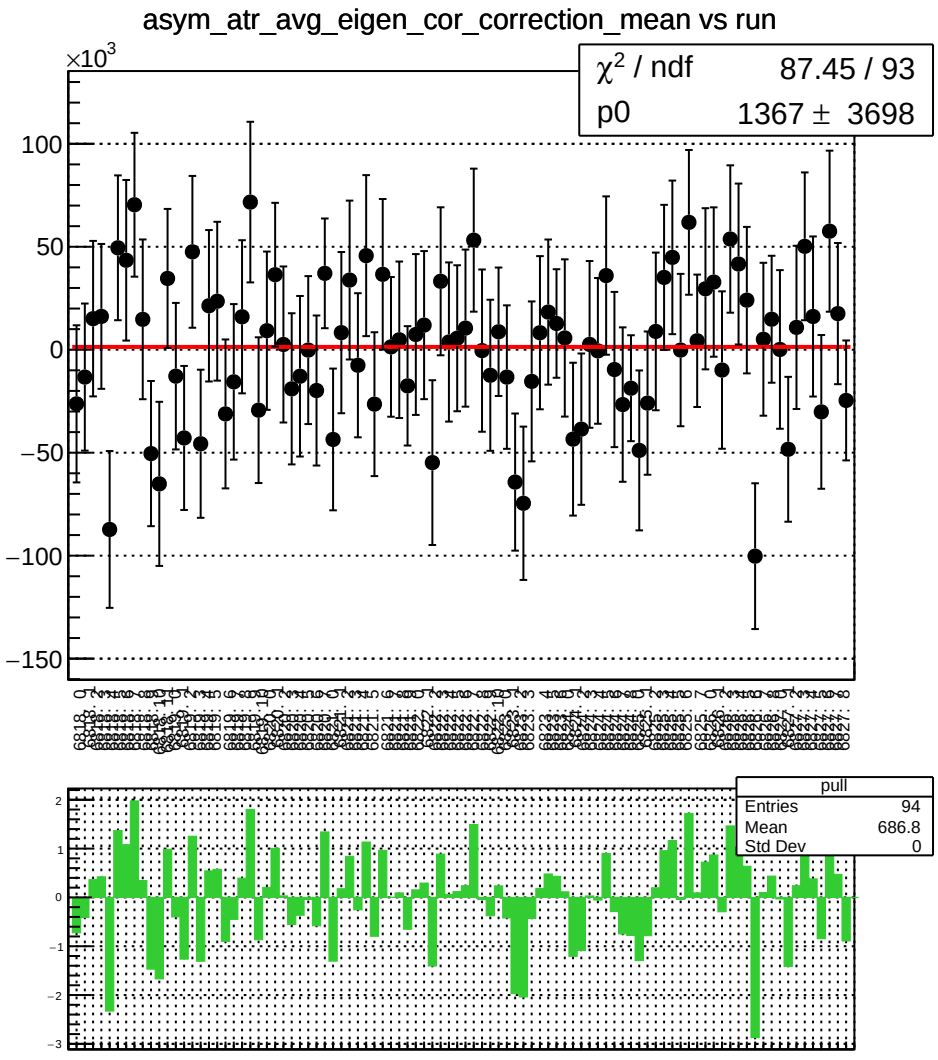

pull1D
Entries 94
Mean 0.001554
Std Dev 0.9645

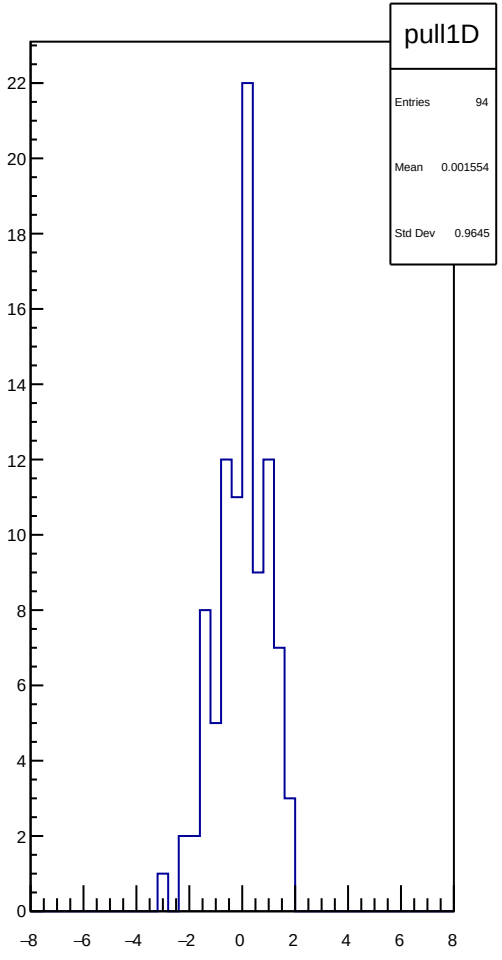

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4765 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200

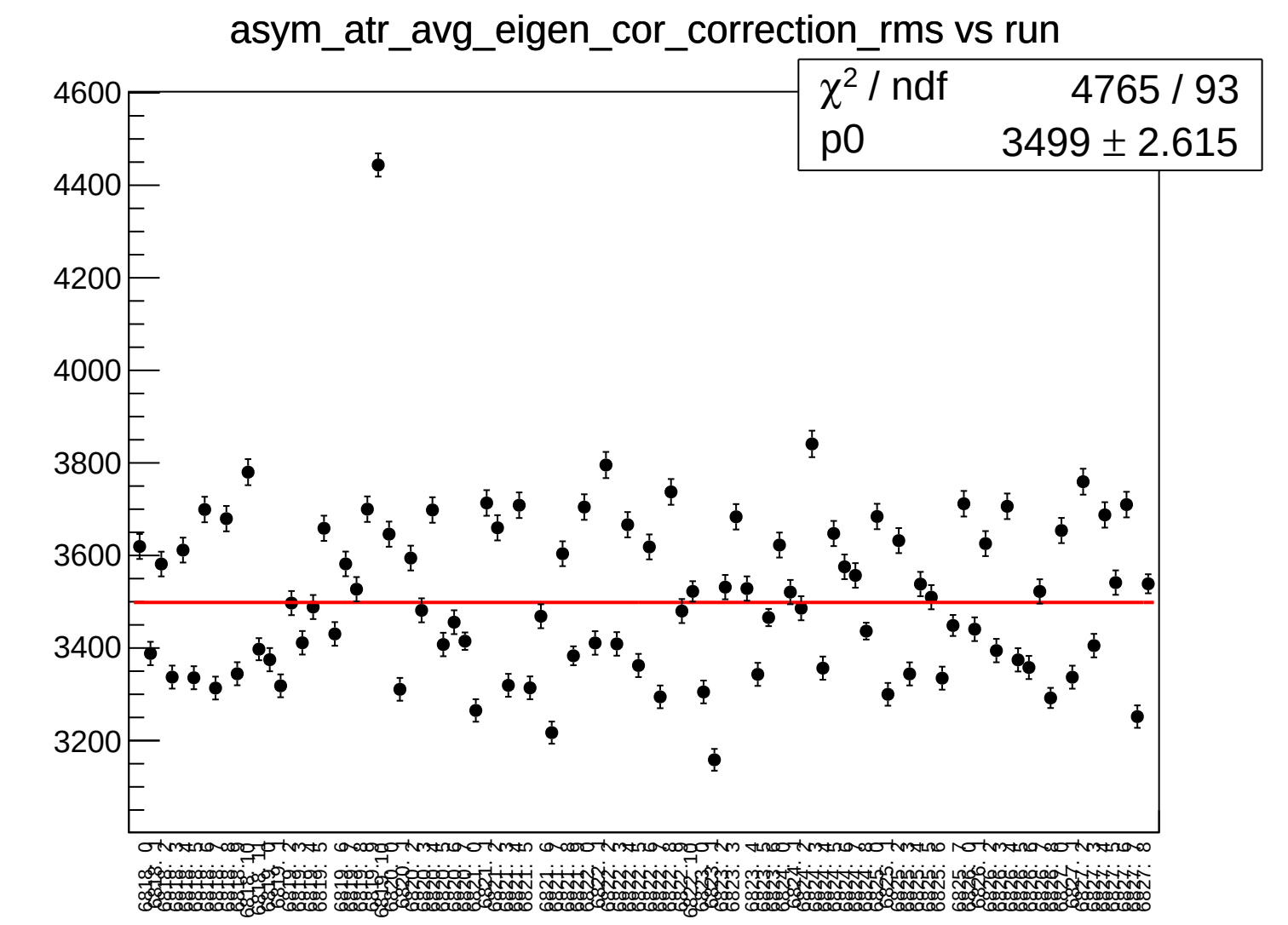

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 93.61 / 93
p0 −540.4 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −479
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

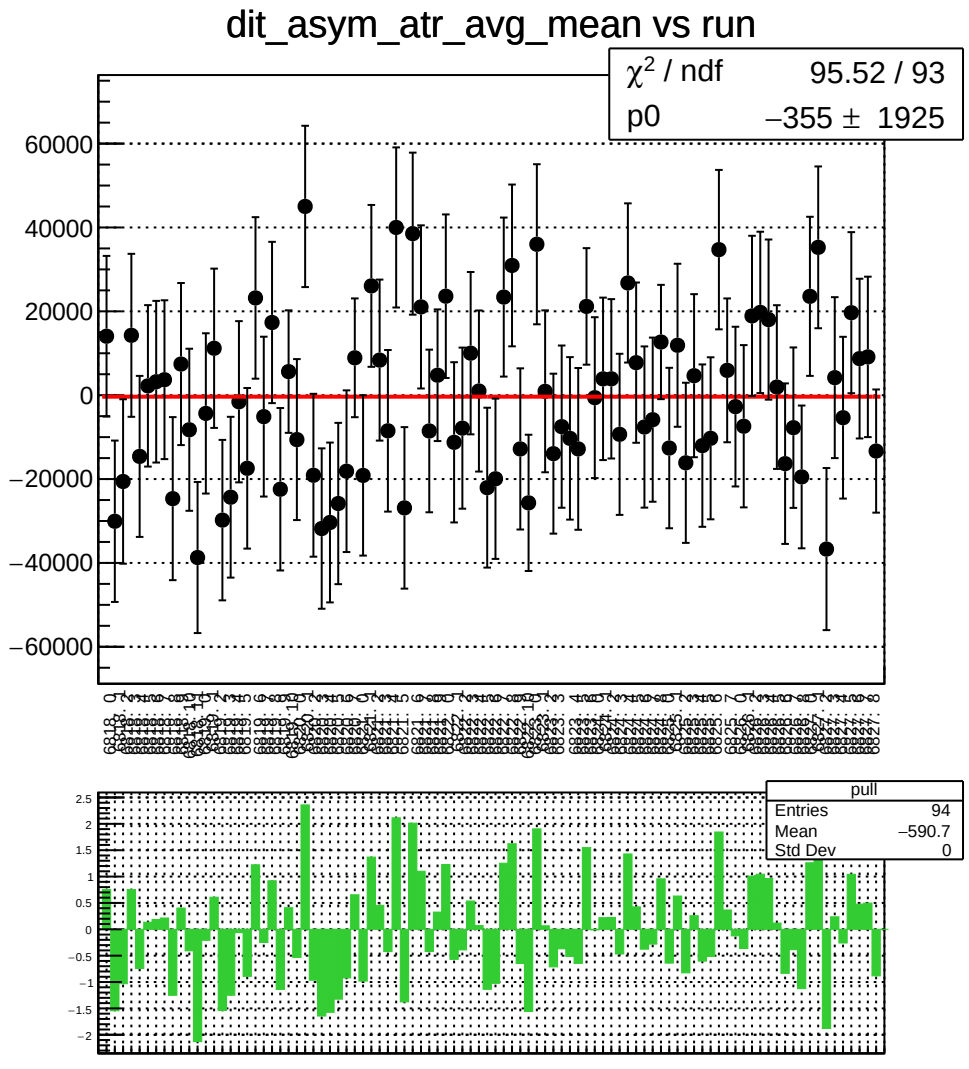

pull1D
Entries 94
Mean −0.008391
Std Dev 0.9979
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

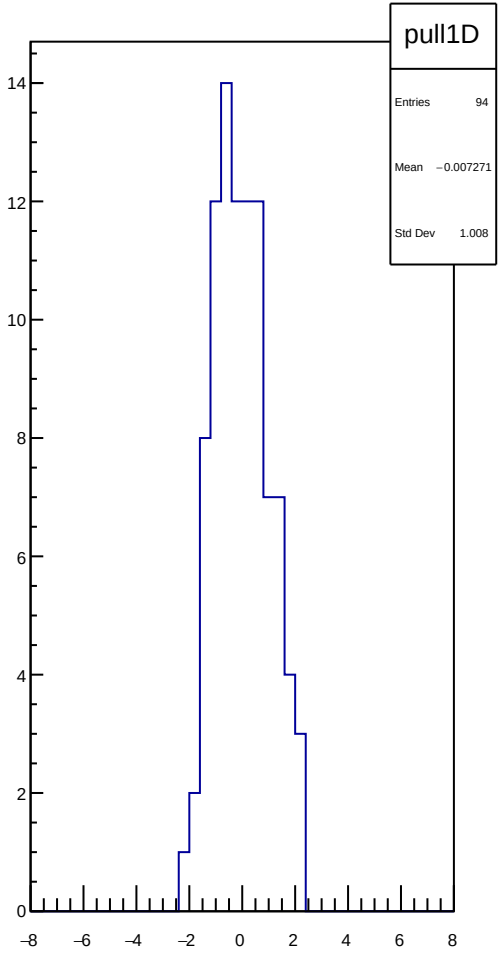

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 104.2 / 93
p0 1802 ± 1.345
1840
1820
1800
1780
1760

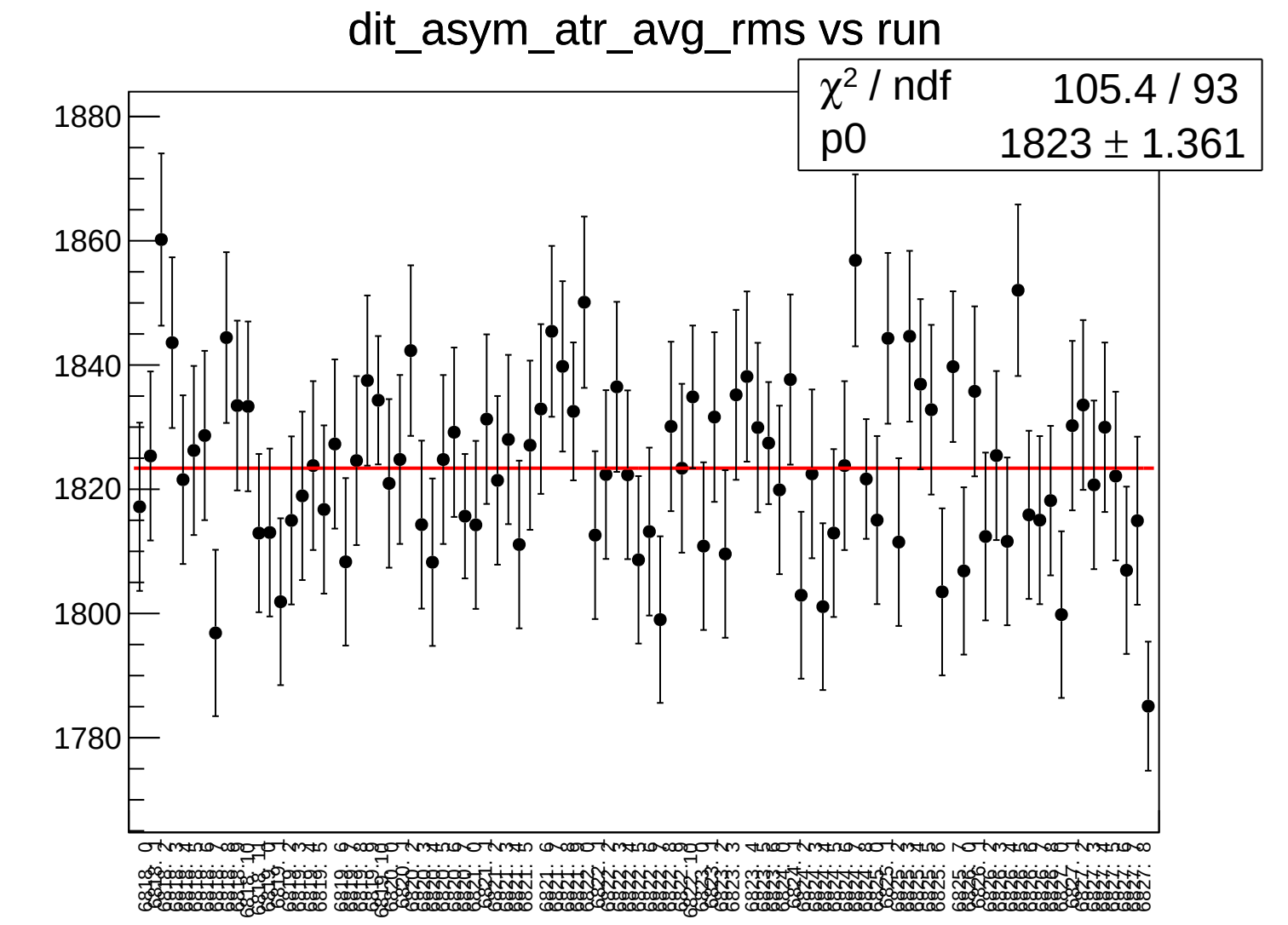

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.45 / 93
p0 1367 ± 3698
×10³
pull
Entries 94
Mean 686.8
Std Dev 0

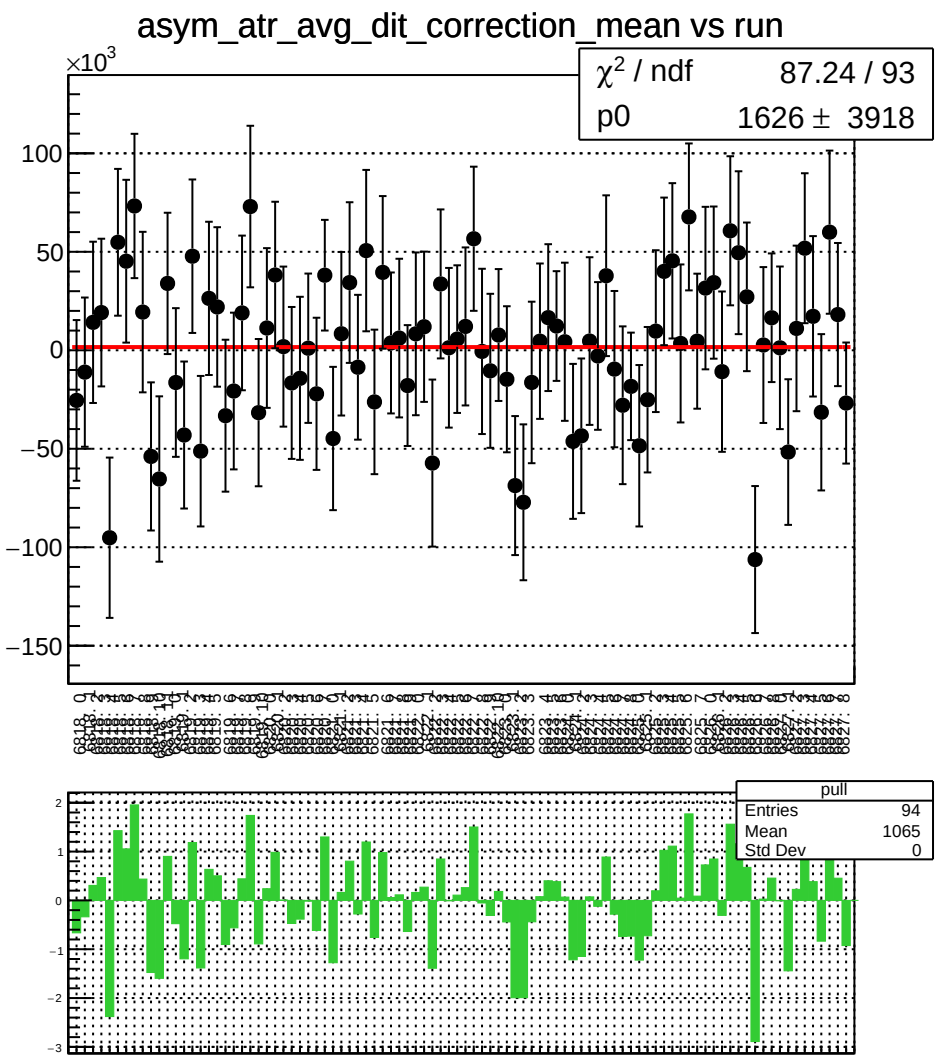

pull1D
Entries 94
Mean 0.001554
Std Dev 0.9645

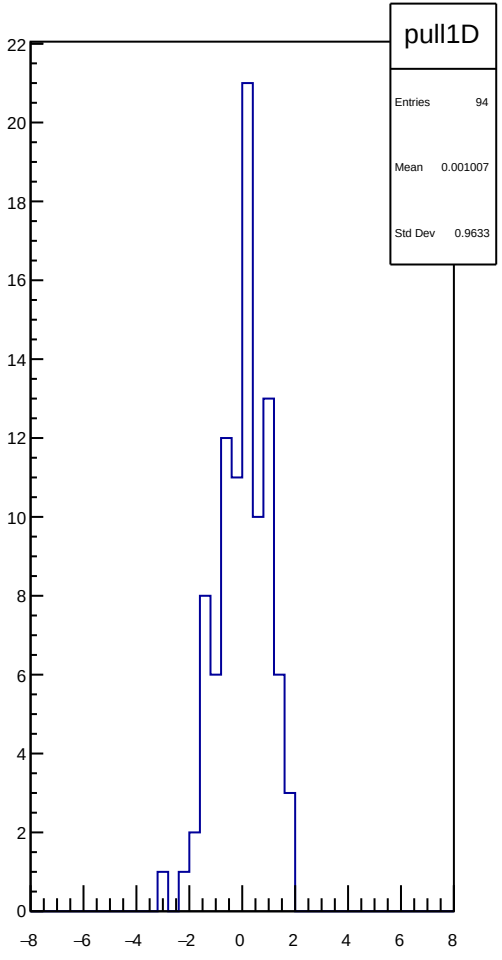

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4765 / 93
p0 3499 ± 2.615
4600
4400
4200
4000
3800
3600
3400
3200

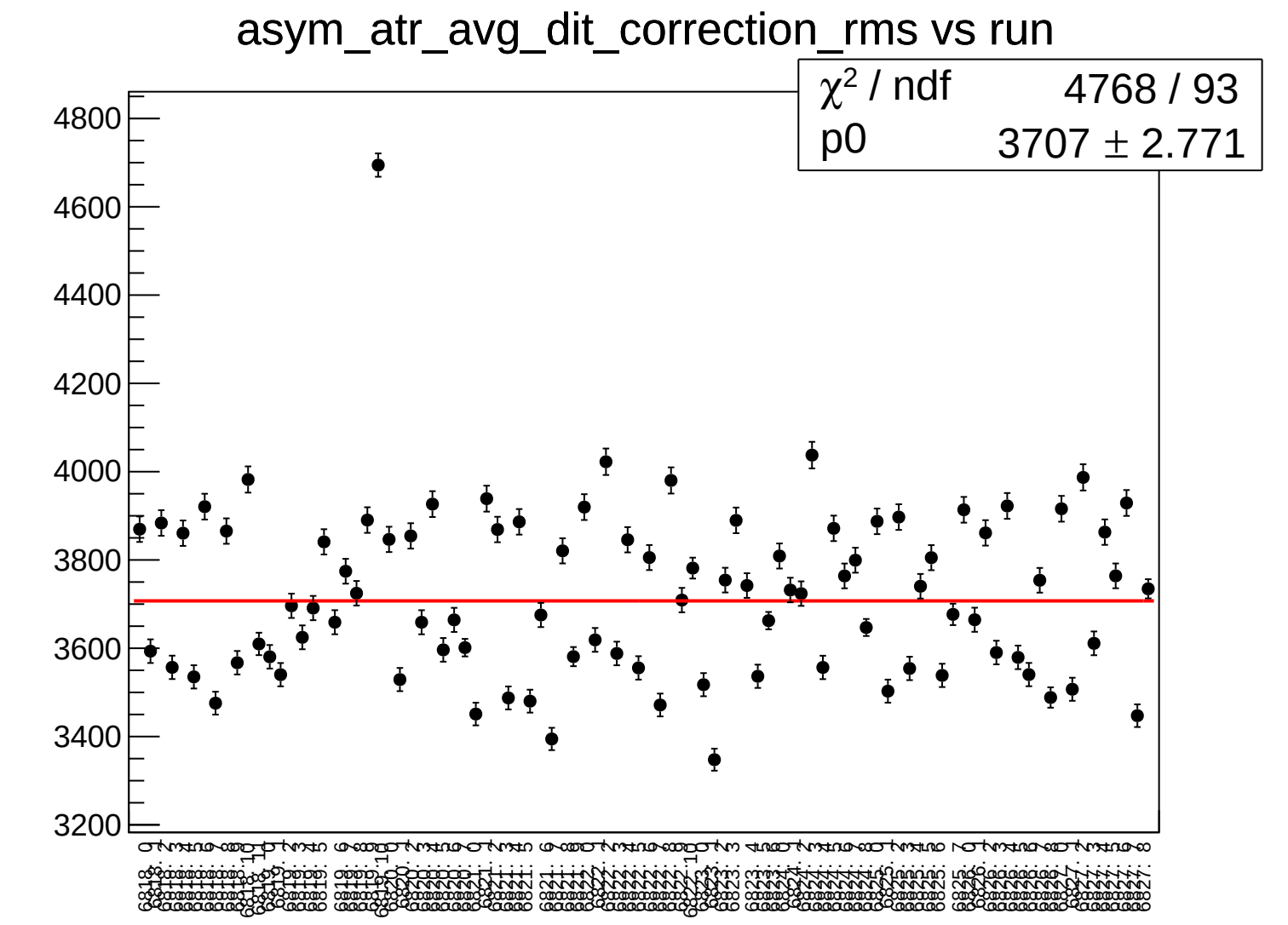

dit_asym_atr_avg_mean vs run
χ² / ndf 95.52 / 93
p0 −355 ± 1925
pull
Entries 94
Mean −590.7
Std Dev 0

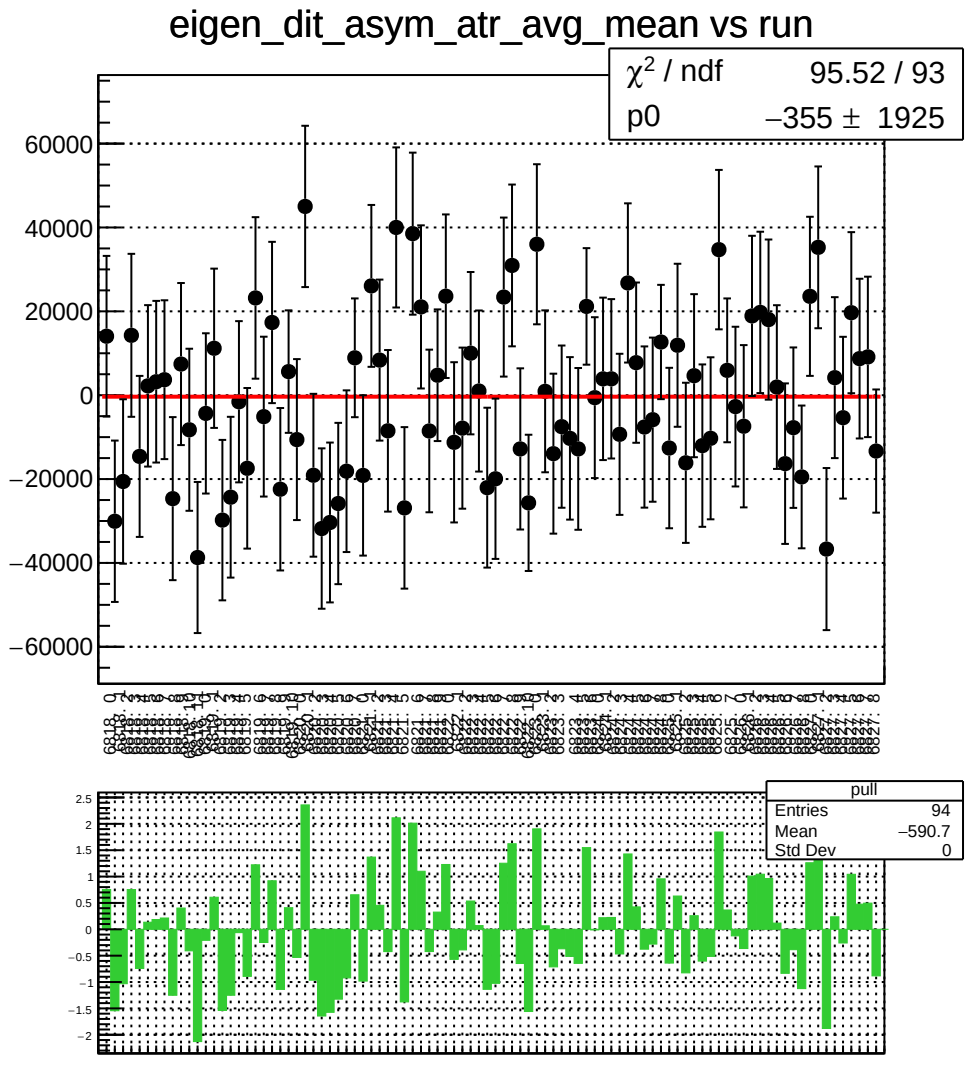

pull1D
Entries 94
Mean −0.007271
Std Dev 1.008

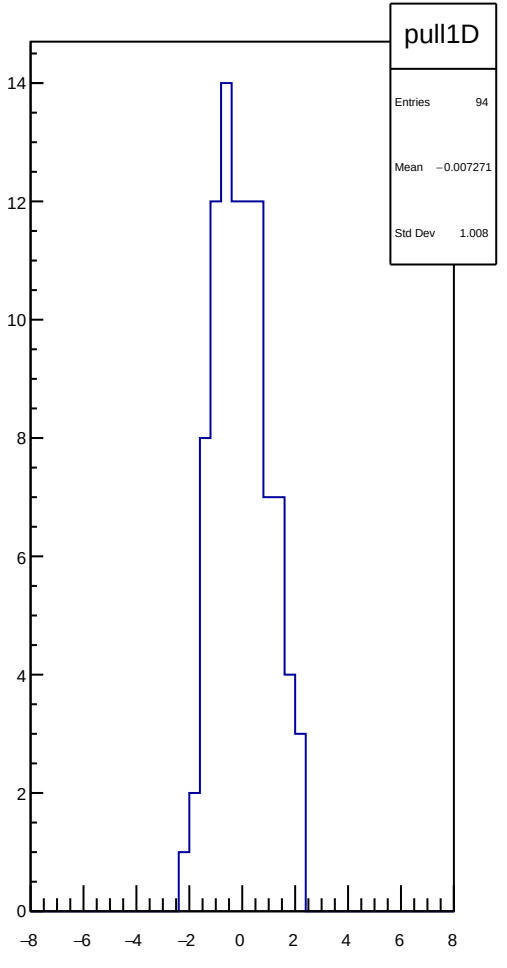

dit_asym_atr_avg_rms vs run
χ² / ndf 105.4 / 93
p0 1823 ± 1.361
1880
1860
1840
1820
1800
1780

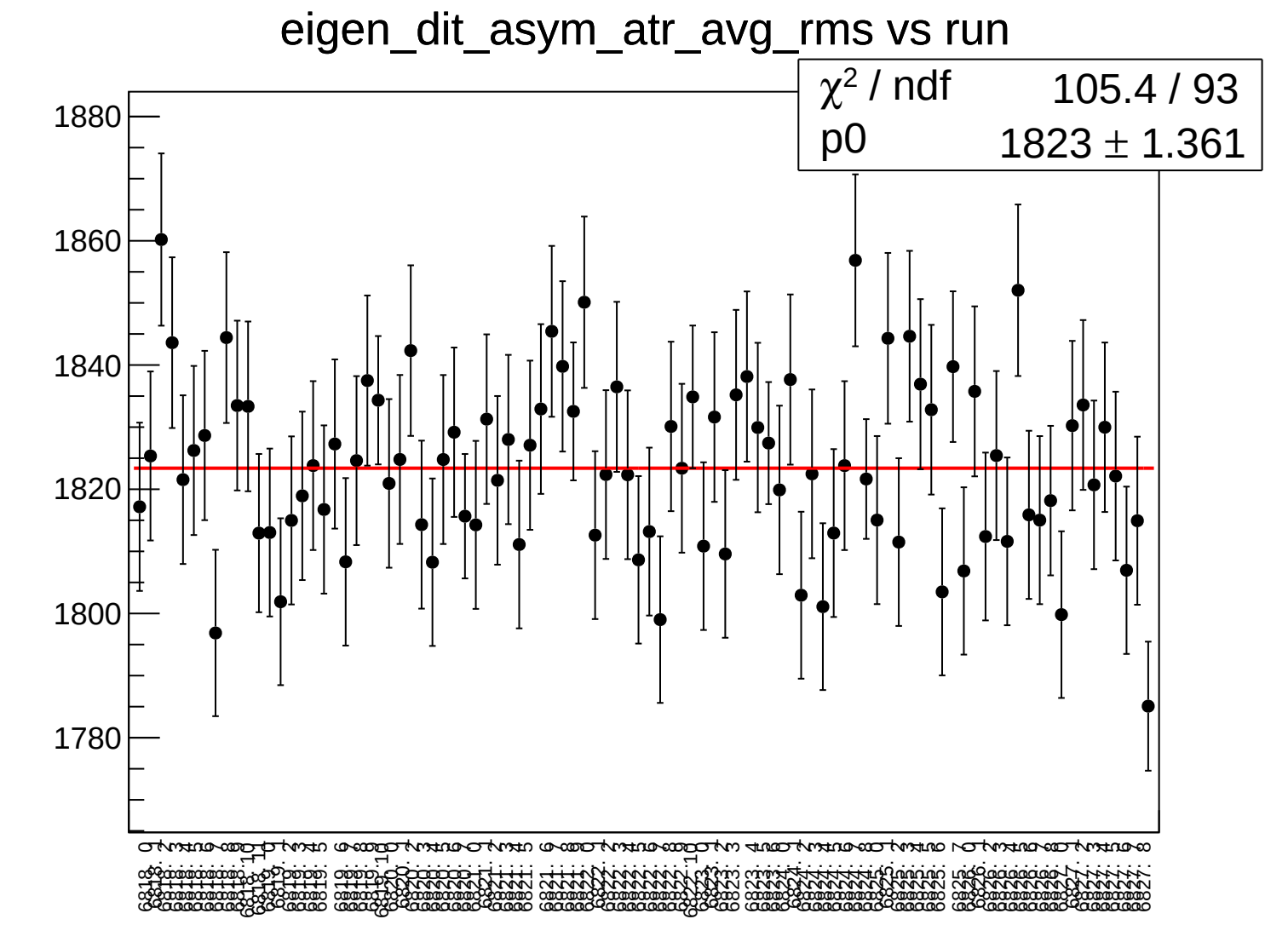

asym_atr_avg_dit_correction_mean vs run
χ² / ndf 87.24 / 93
p0 1626 ± 3918
×10³
pull
Entries 94
Mean 1065
Std Dev 0

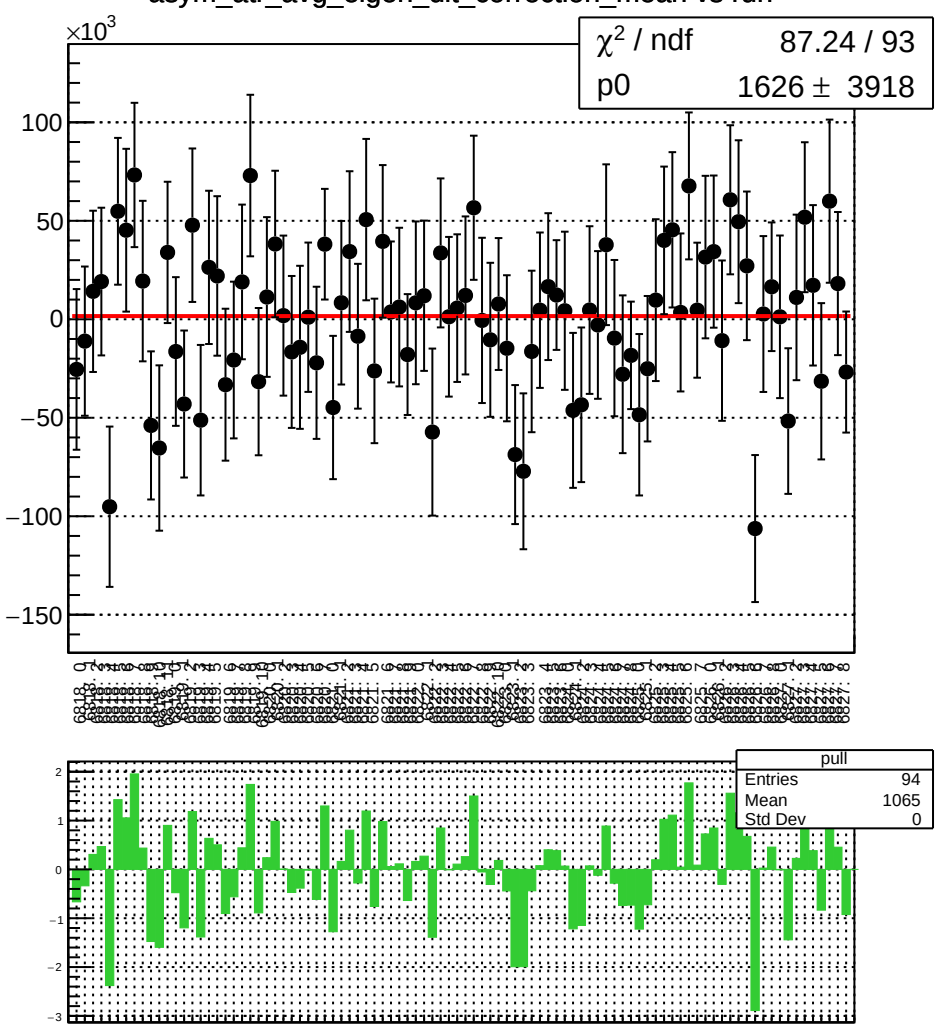

pull1D
Entries 94
Mean 0.001007
Std Dev 0.9633

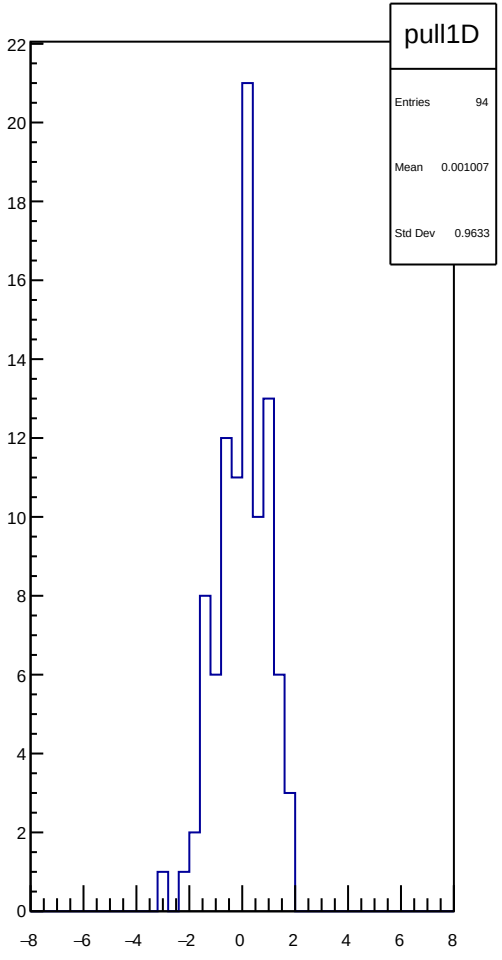

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4768 / 93
p0 3707 ± 2.771
4800
4600
4400
4200
4000
3800
3600
3400
3200

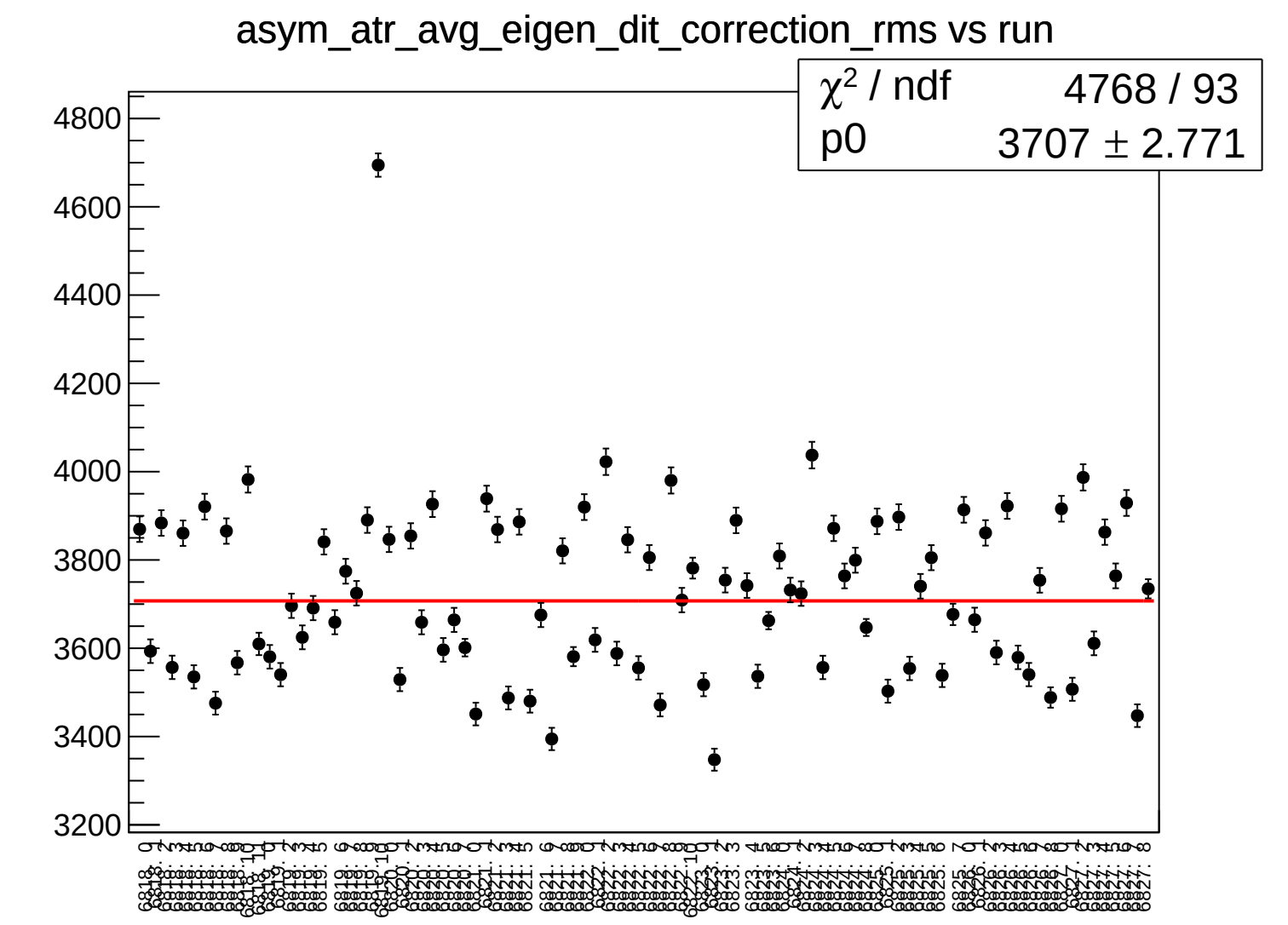

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 95.52 / 93
p0 −355 ± 1925
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −590.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

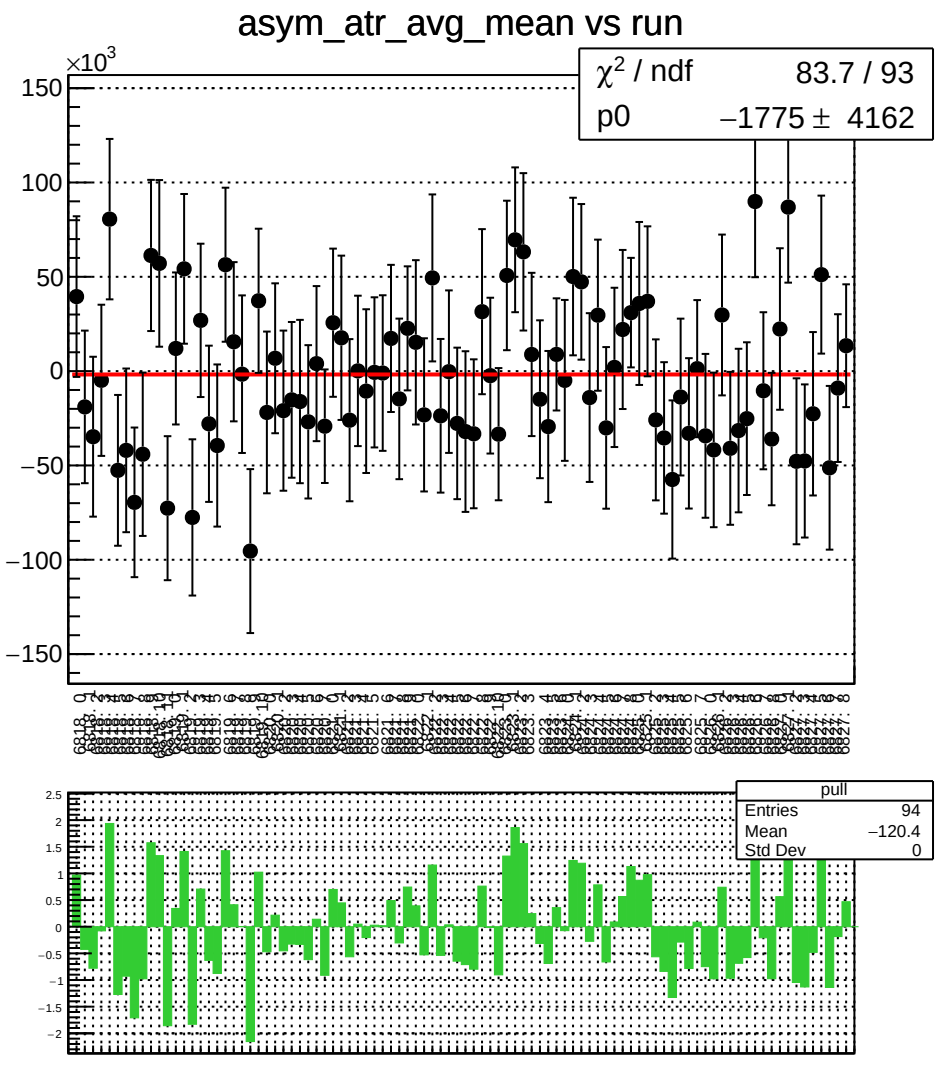

pull1D
Entries 94
Mean −0.007271
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

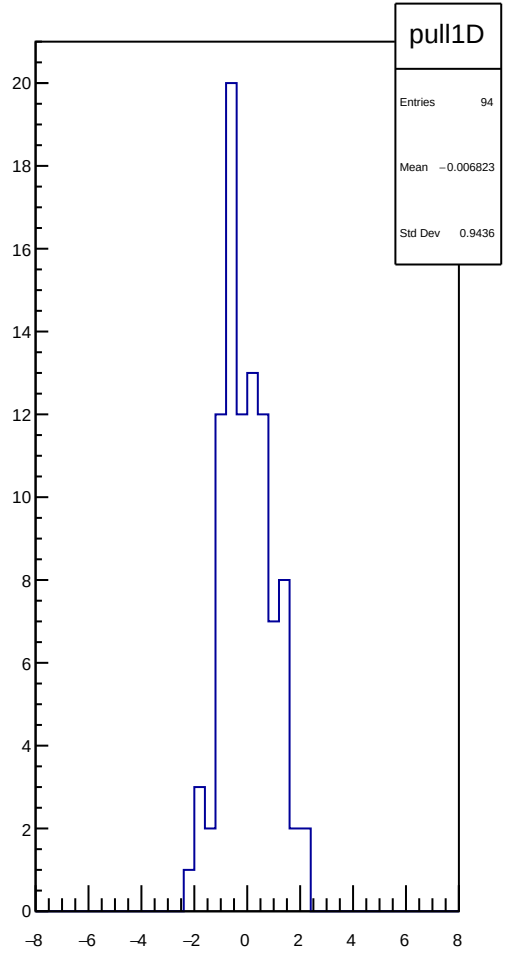

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 105.4 / 93
p0 1823 ± 1.361
1880
1860
1840
1820
1800
1780

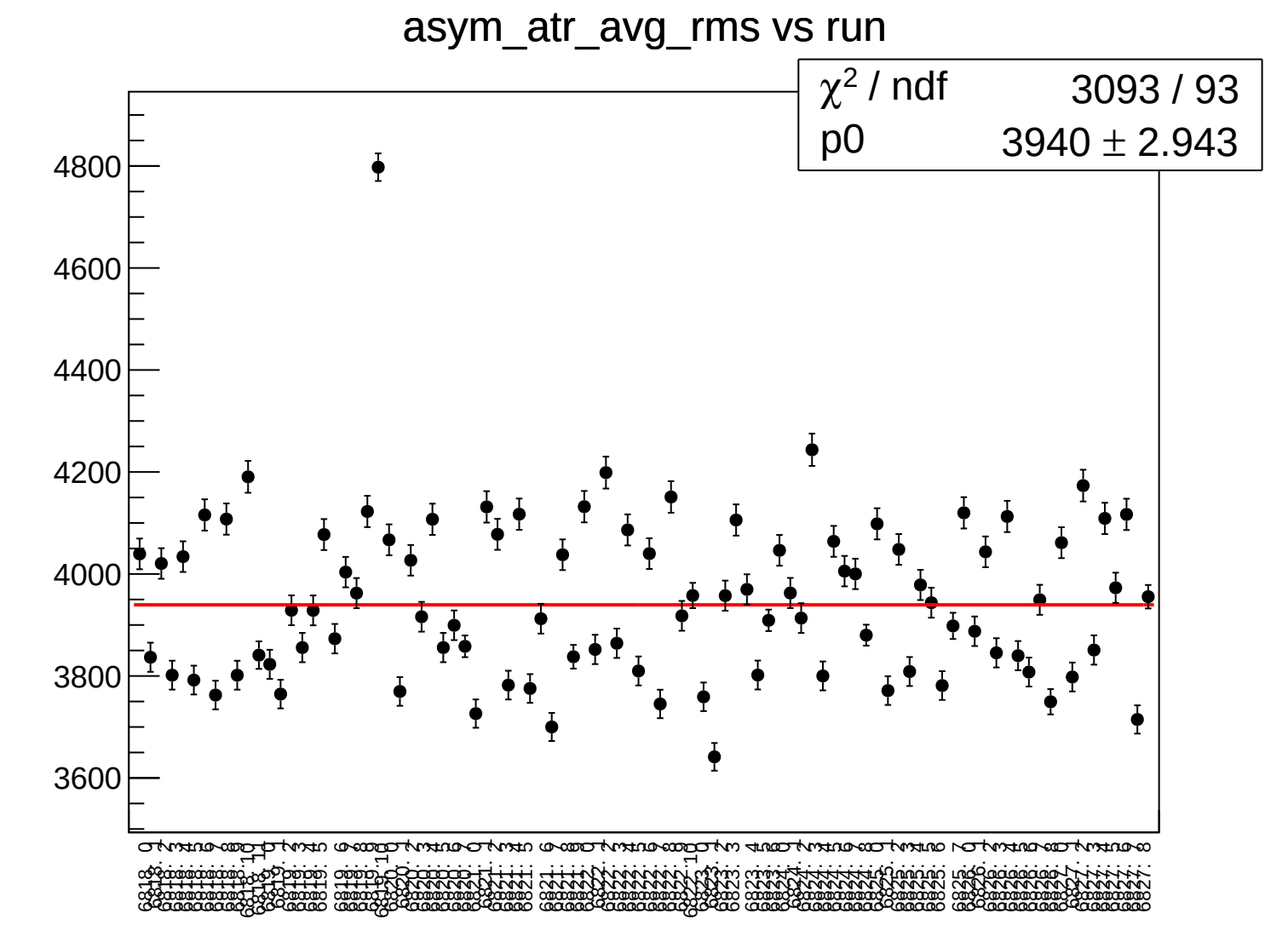

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.24 / 93
p0 1626 ± 3918
100
50
0
−50
−100
−150
pull
Entries 94
Mean 1065
Std Dev 0
2
1
0
−1
−2
−3

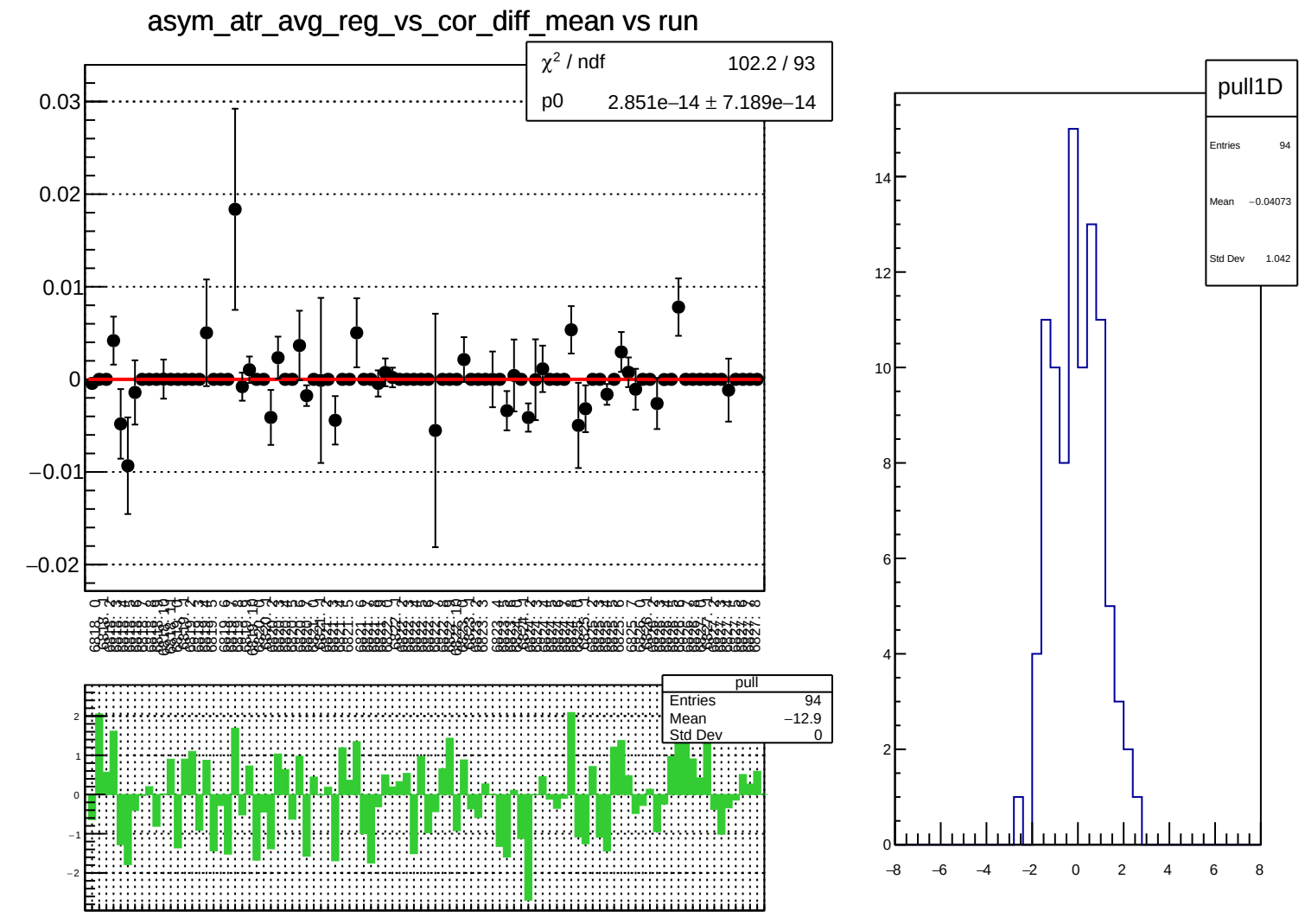

pull1D
Entries 94
Mean 0.001007
Std Dev 0.9633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

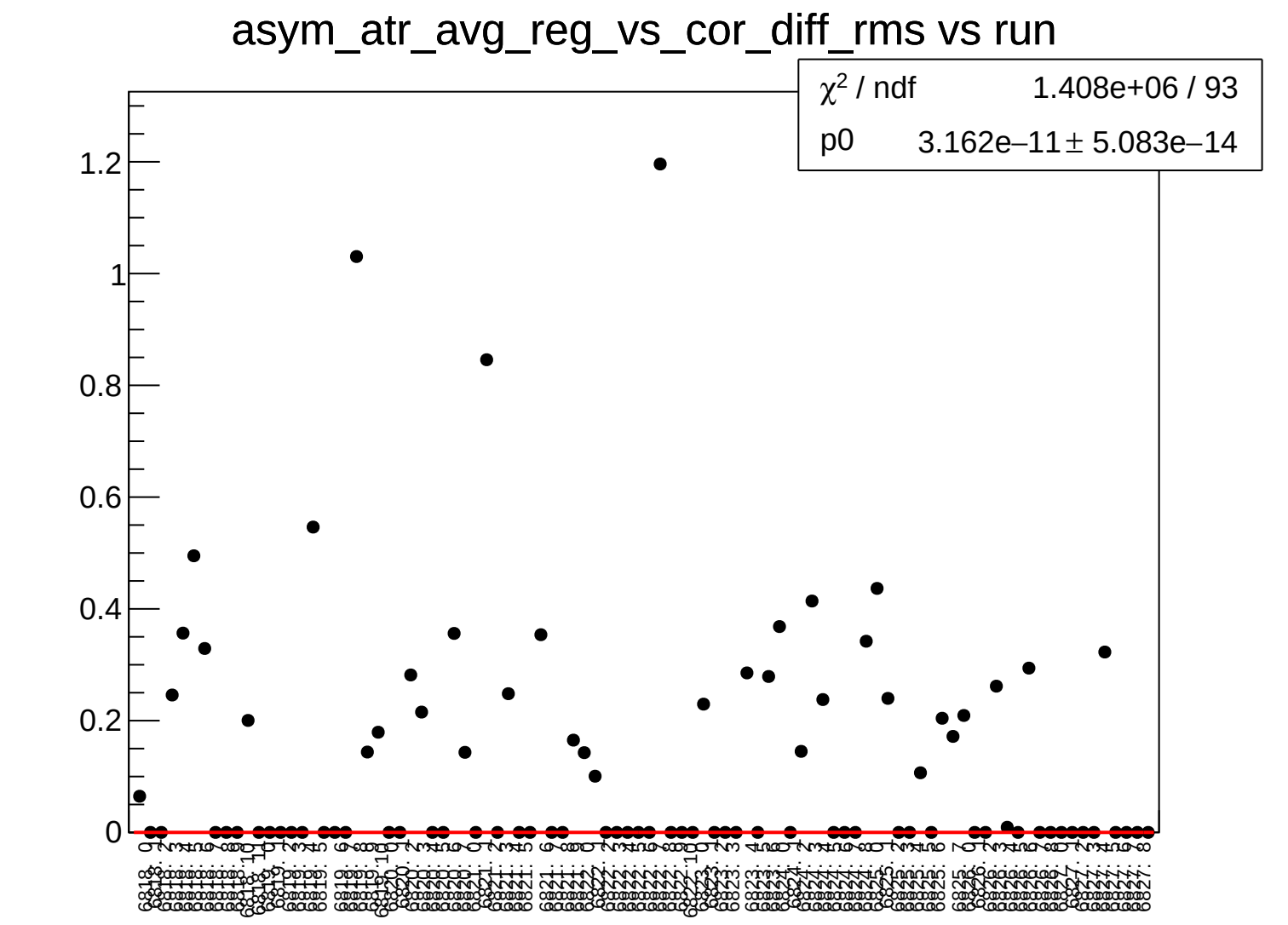

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4768 / 93
p0 3707 ± 2.771
4800
4600
4400
4200
4000
3800
3600
3400
3200

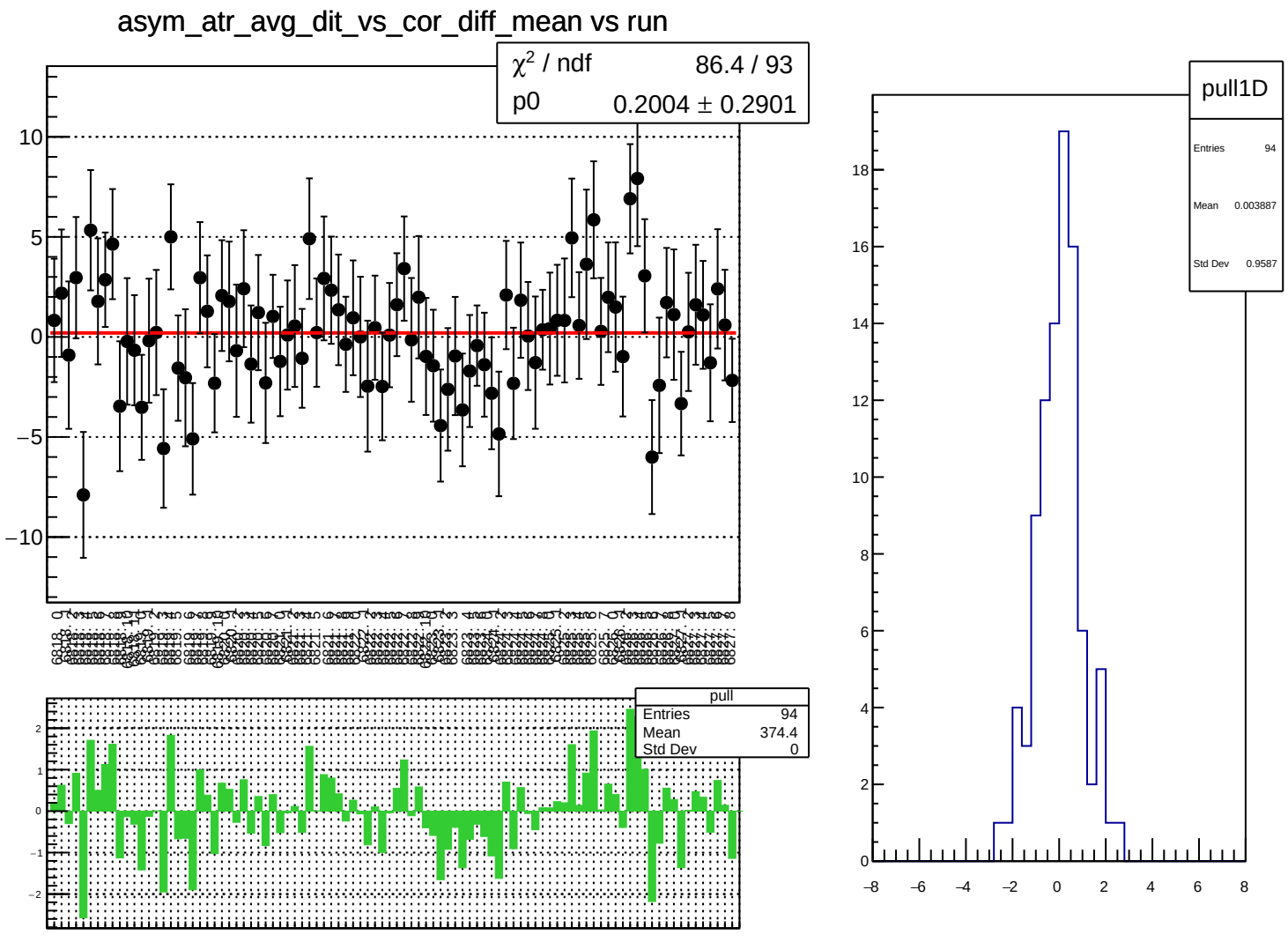

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 83.7 / 93
p0 −1775 ± 4162
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −120.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

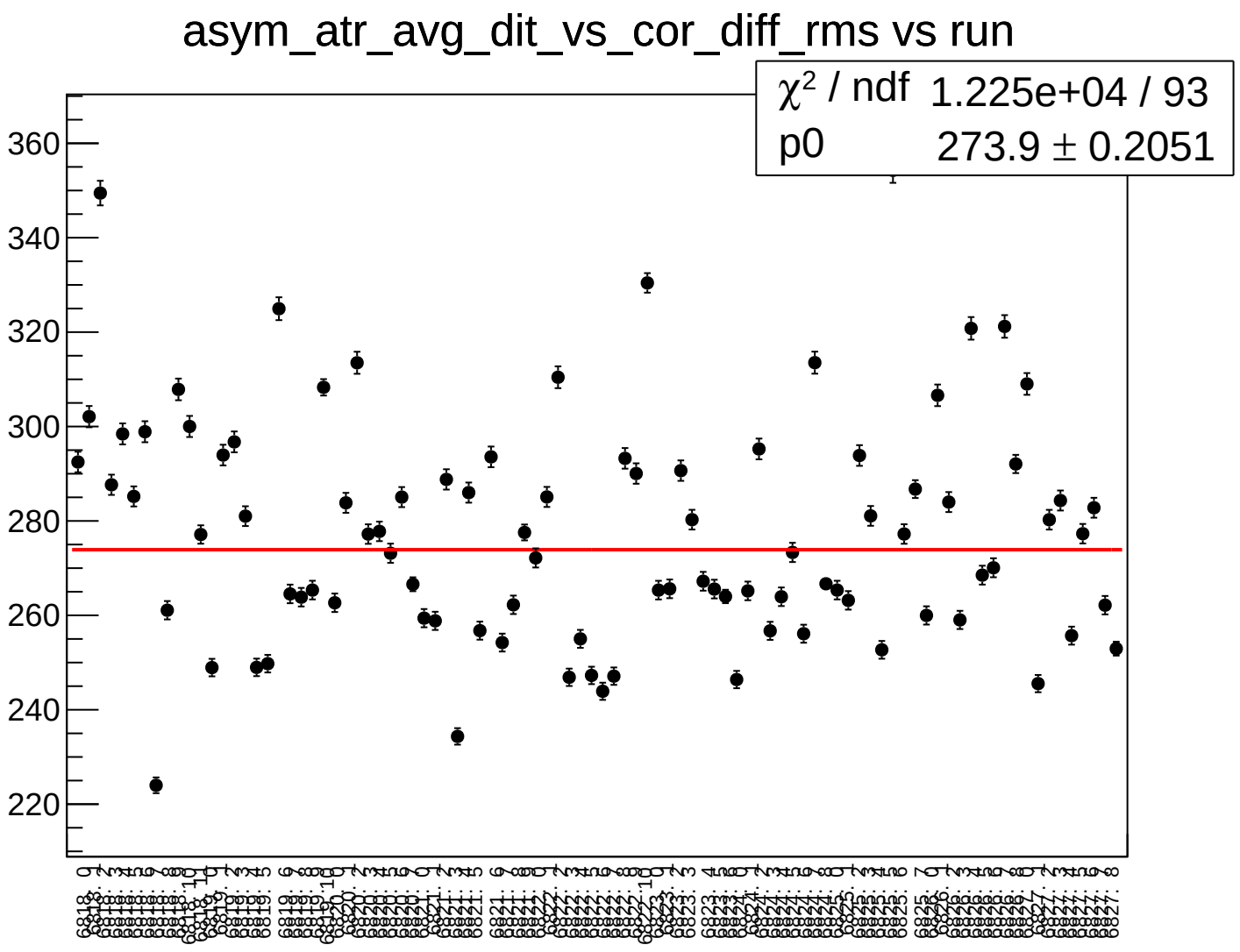

pull1D
Entries 94
Mean −0.006823
Std Dev 0.9436
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

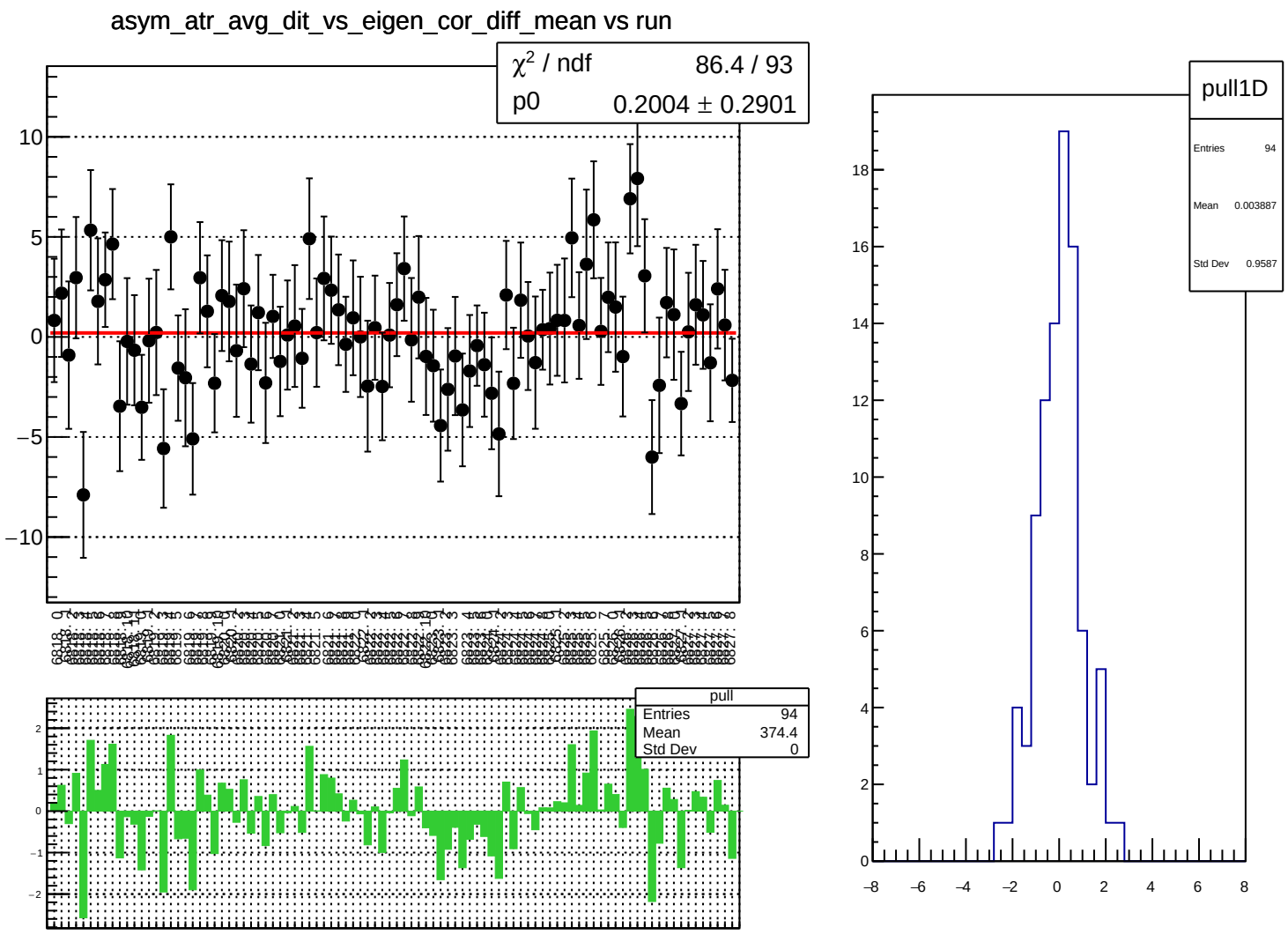

asym_atr_avg_rms vs run
χ² / ndf 3093 / 93
p0 3940 ± 2.943
4800
4600
4400
4200
4000
3800
3600

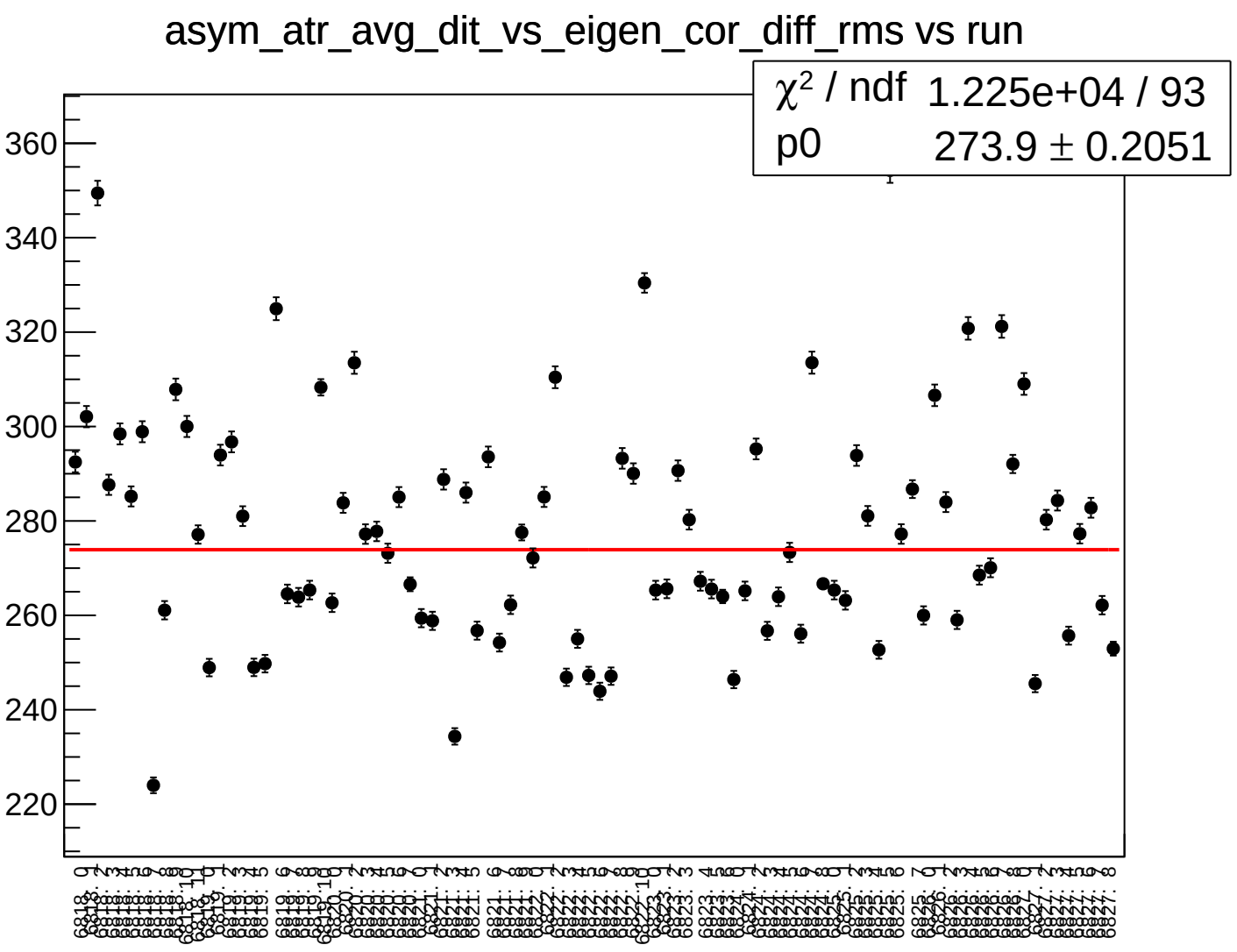

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.2 / 93
p0 2.851e−14 ± 7.189e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −12.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.04073
Std Dev 1.042
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

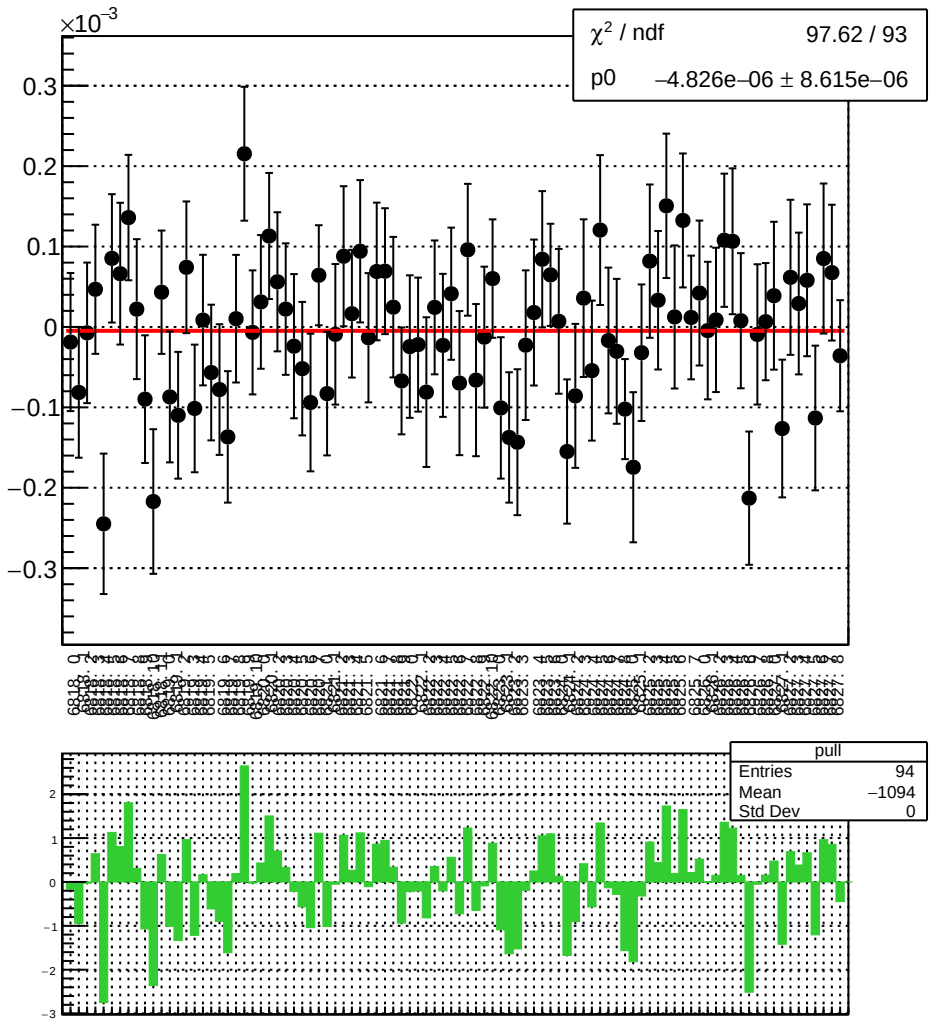

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.408e+06 / 93
p0 3.162e−11 ± 5.083e−14
1.2
1
0.8
0.6
0.4
0.2
0

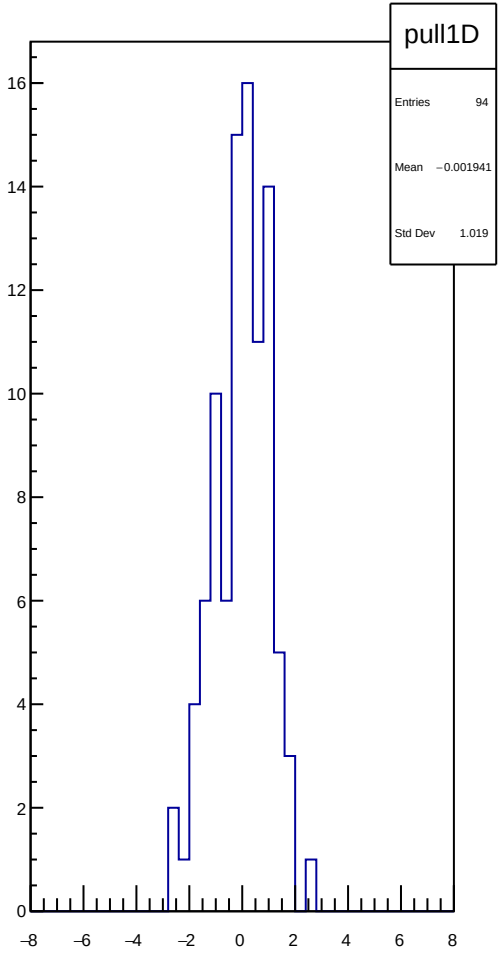

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.4 / 93
p0 0.2004 ± 0.2901
pull
Entries 94
Mean 374.4
Std Dev 0
pull1D
Entries 94
Mean 0.003887
Std Dev 0.9587

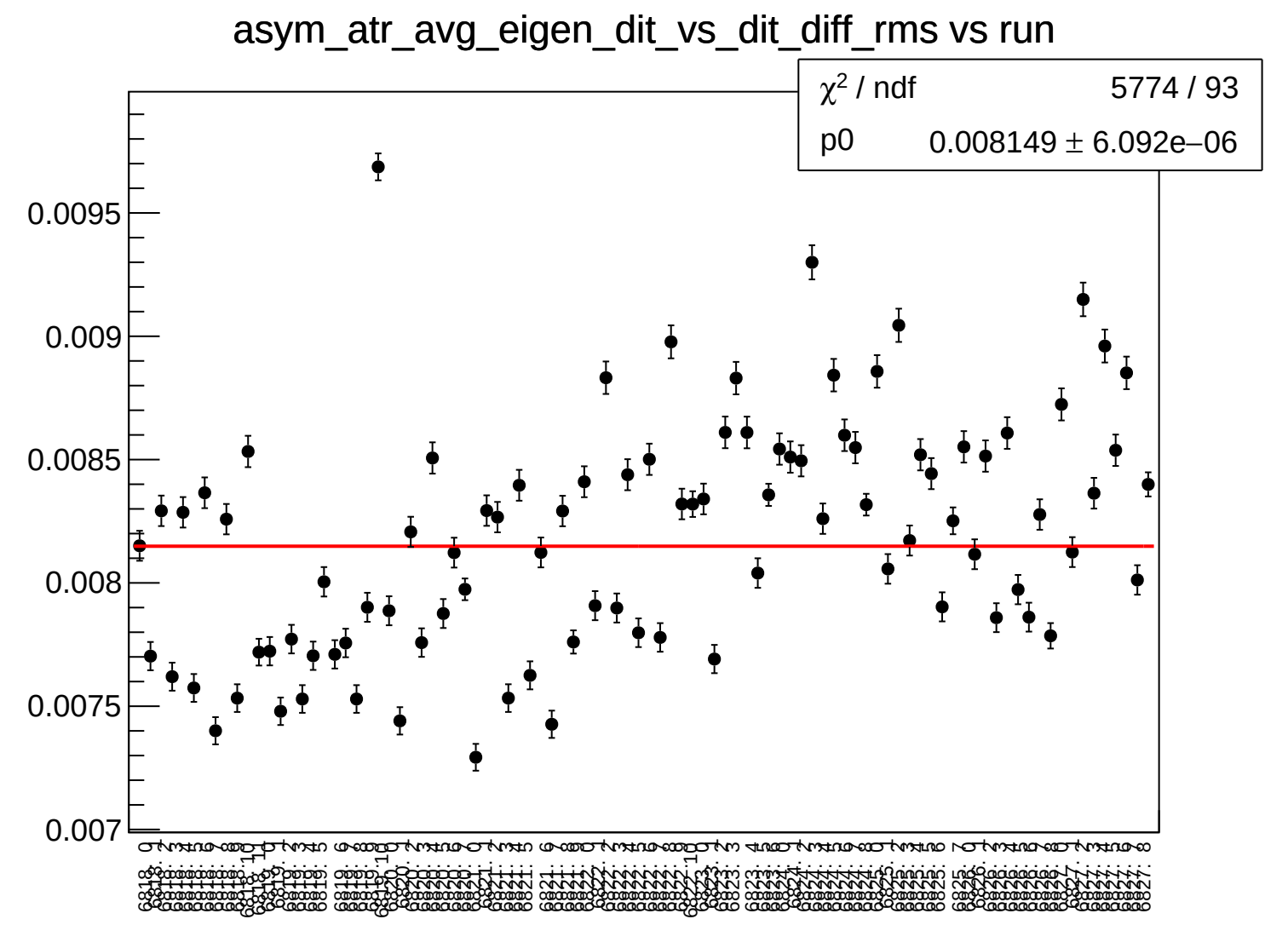

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 93
p0 273.9 ± 0.2051
360
340
320
300
280
260
240
220

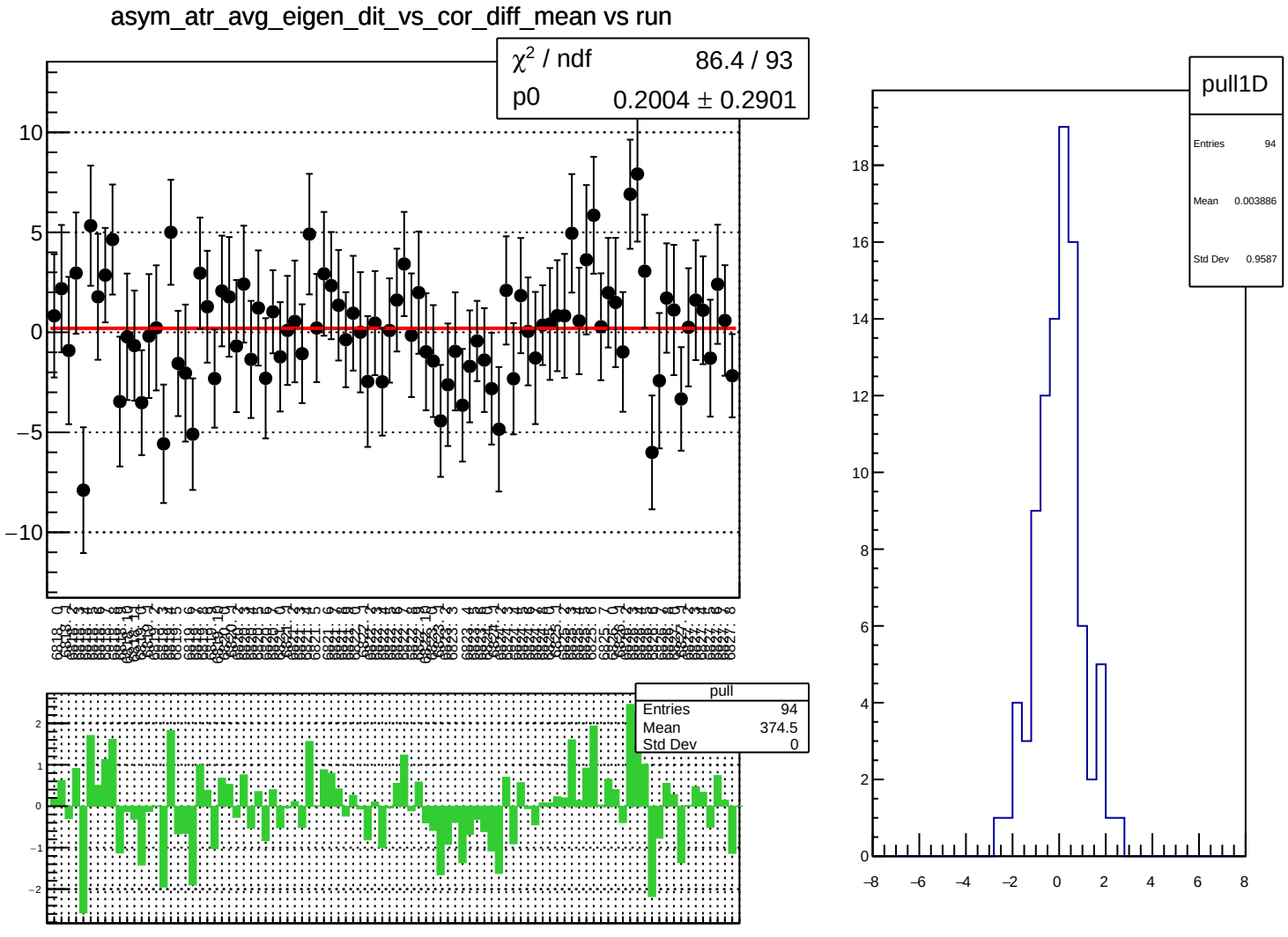

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.4 / 93
p0 0.2004 ± 0.2901
pull
Entries 94
Mean 374.4
Std Dev 0
pull1D
Entries 94
Mean 0.003887
Std Dev 0.9587

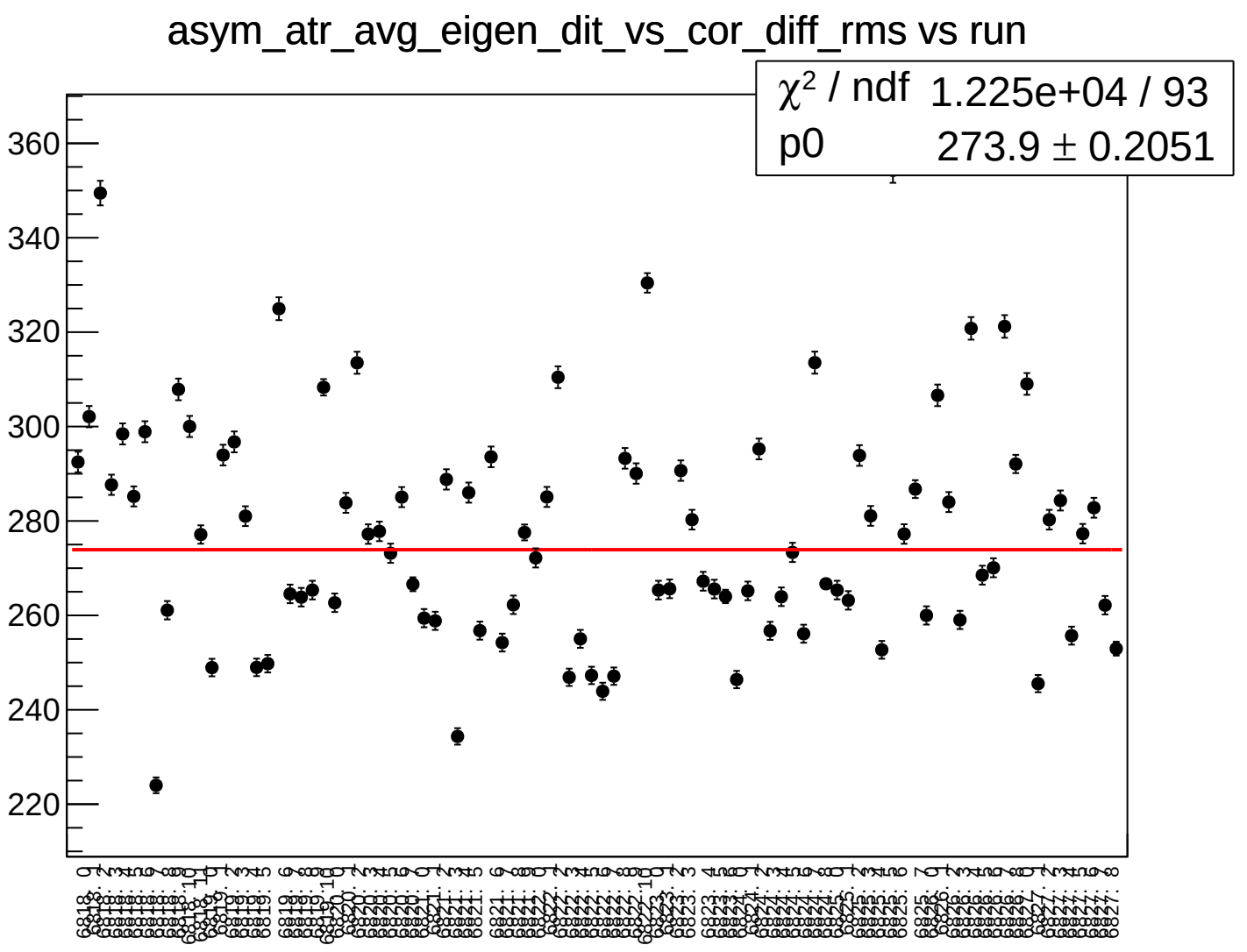

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 93
p0 273.9 ± 0.2051
360
340
320
300
280
260
240
220

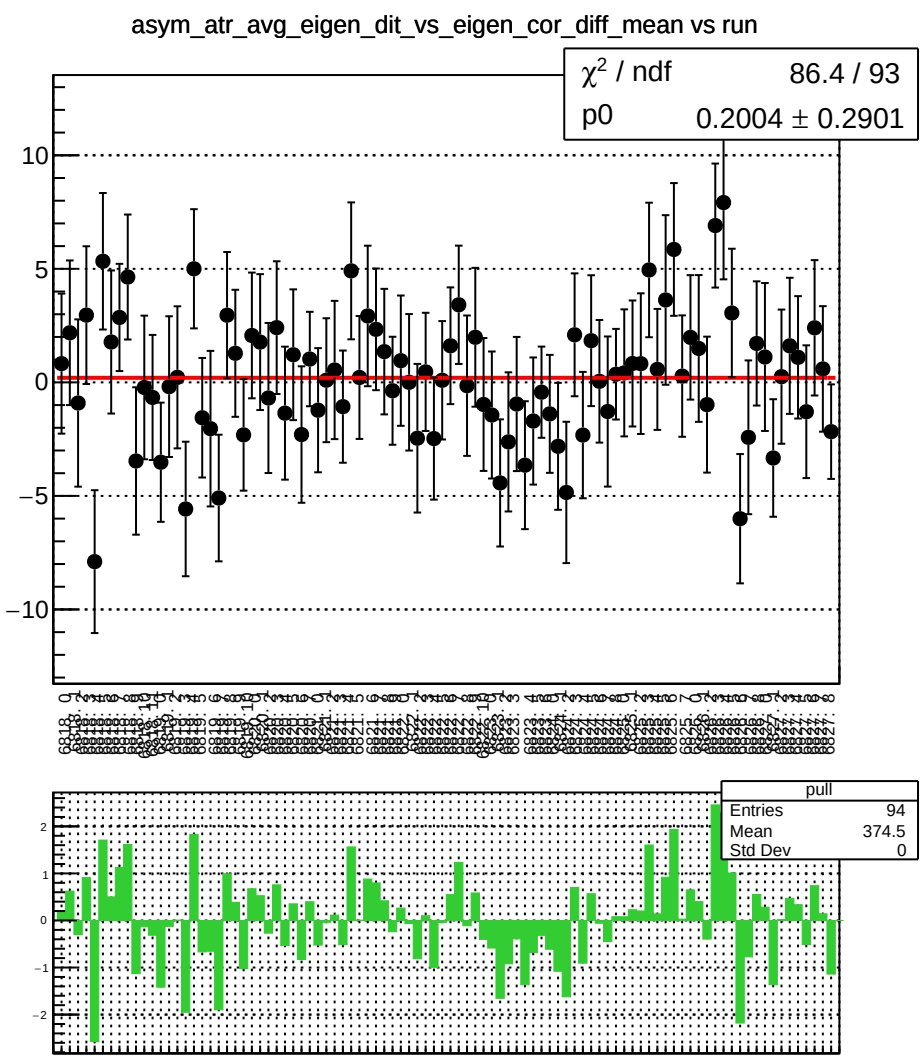

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.62 / 93
p0 −4.826e−06 ± 8.615e−06
pull
Entries 94
Mean −1094
Std Dev 0

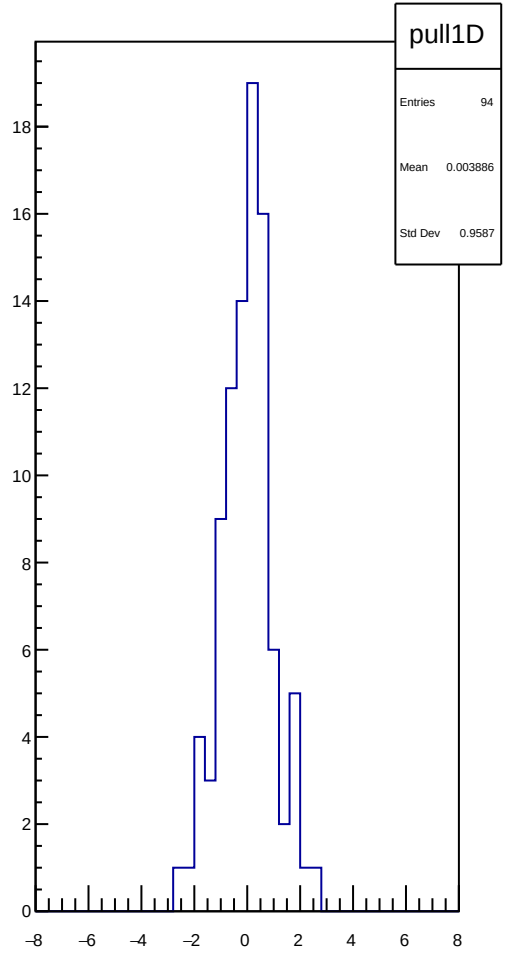

pull1D
Entries 94
Mean −0.001941
Std Dev 1.019

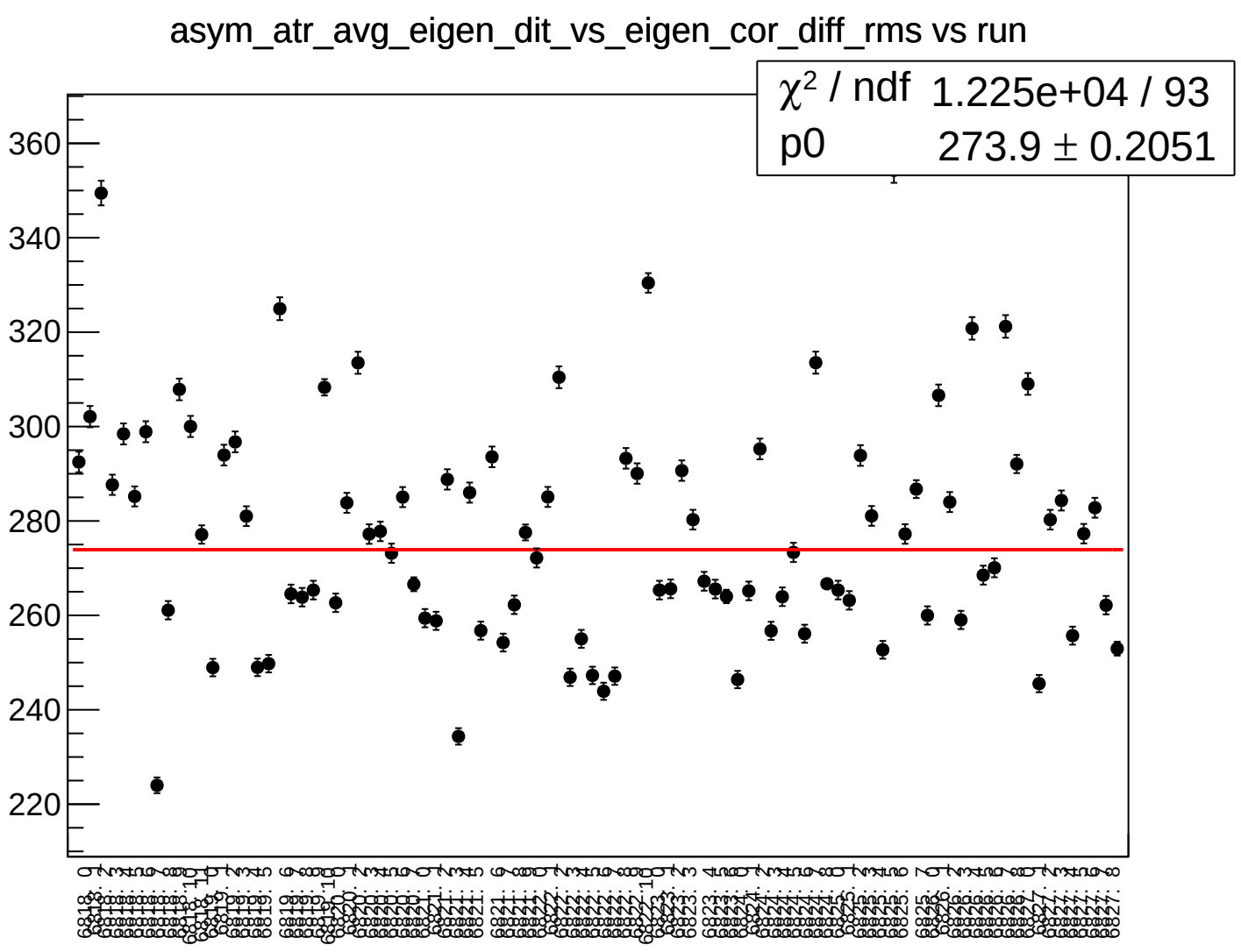

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5774 / 93
p0 0.008149 ± 6.092e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

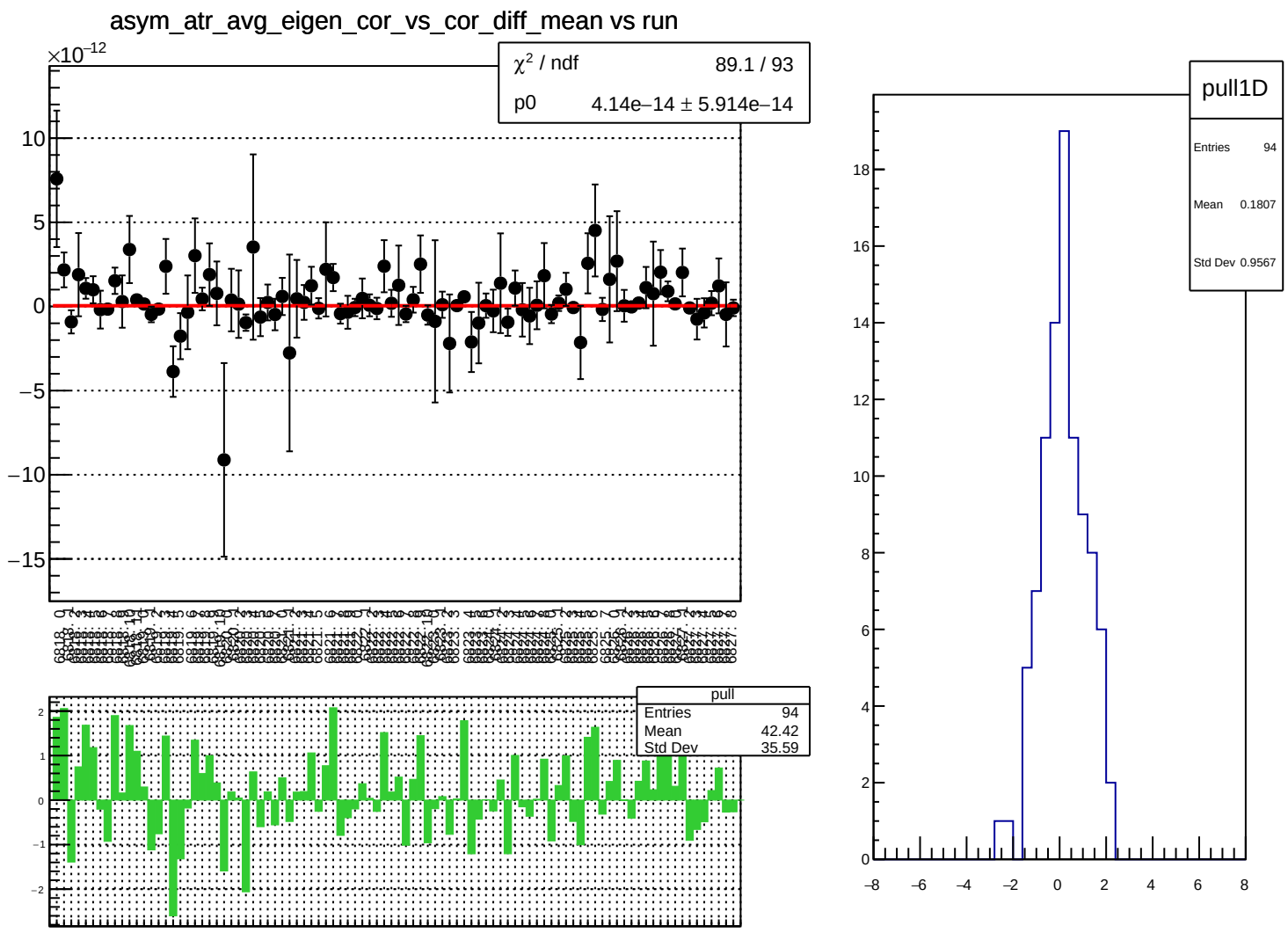

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.4 / 93
p0 0.2004 ± 0.2901
pull
Entries 94
Mean 374.5
Std Dev 0
pull1D
Entries 94
Mean 0.003886
Std Dev 0.9587

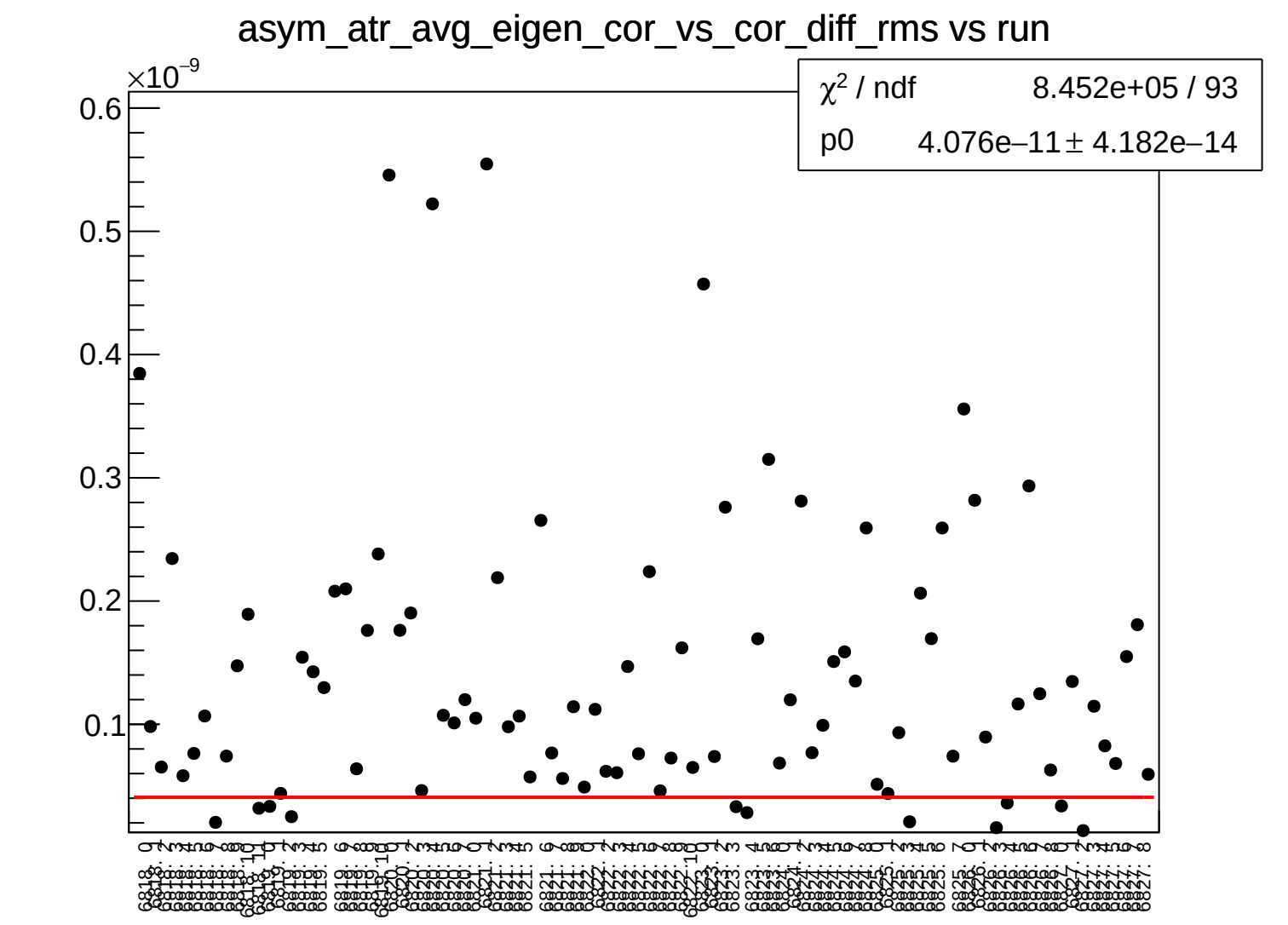

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 93
p0 273.9 ± 0.2051
360
340
320
300
280
260
240
220

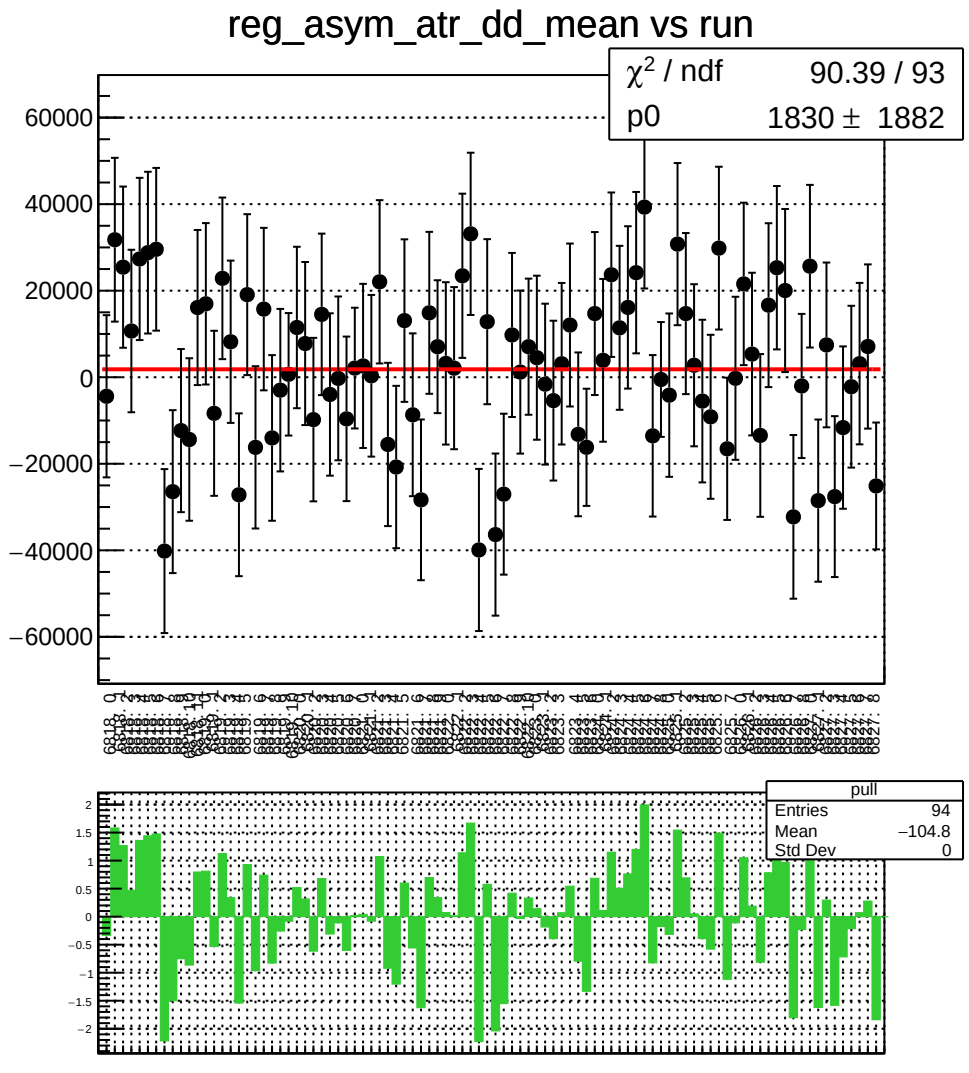

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.4 / 93
p0 0.2004 ± 0.2901
pull
Entries 94
Mean 374.5
Std Dev 0

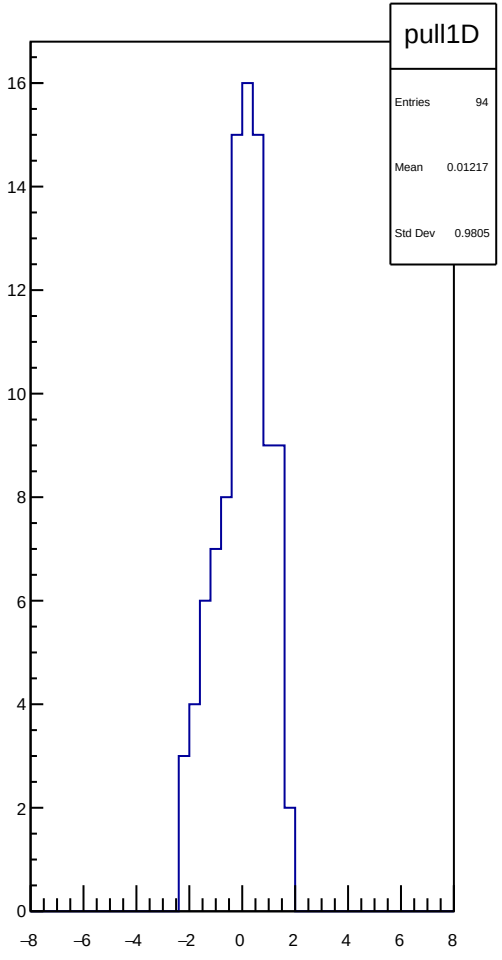

pull1D
Entries 94
Mean 0.003886
Std Dev 0.9587

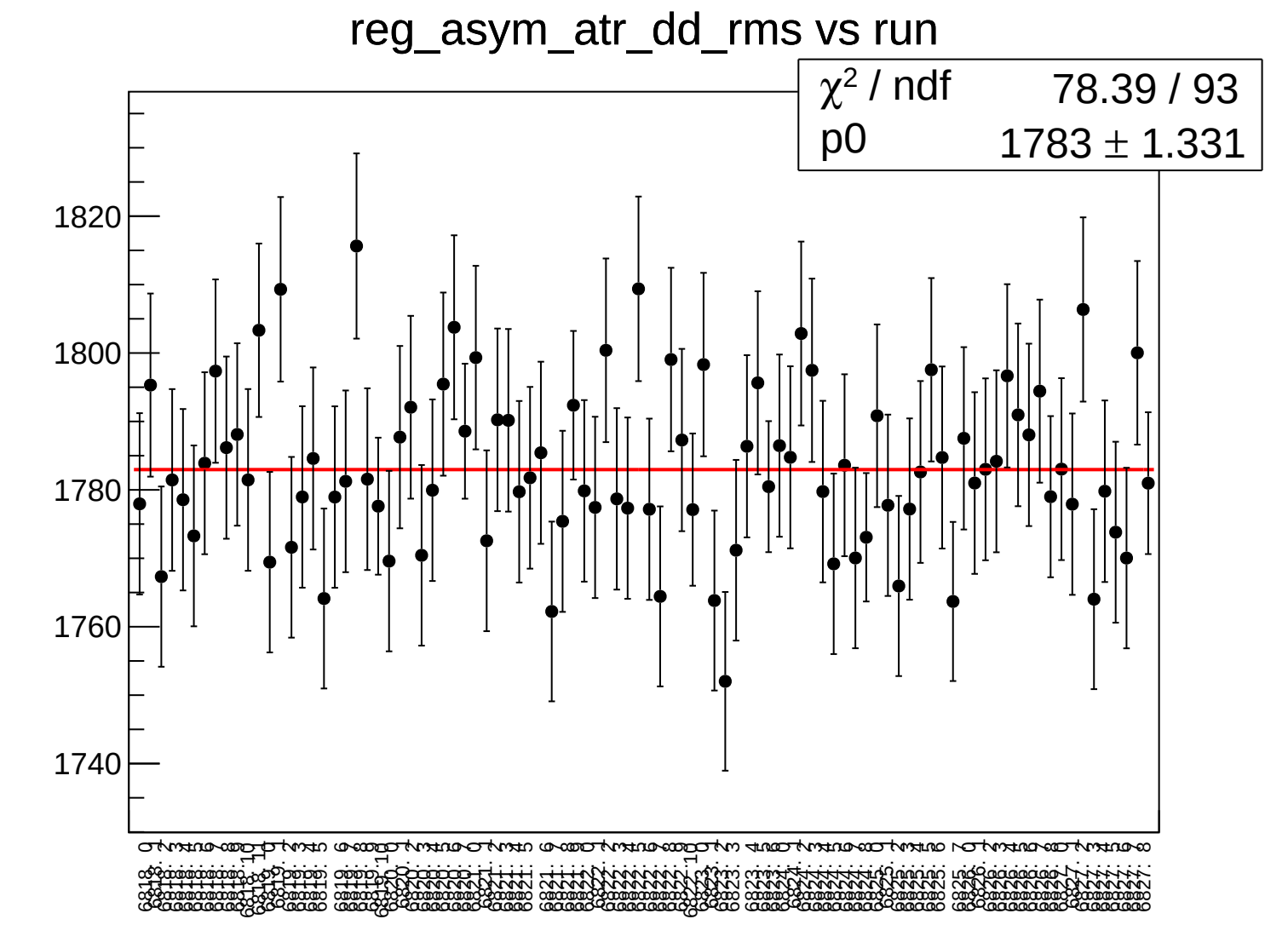

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 93
p0 273.9 ± 0.2051
360
340
320
300
280
260
240
220

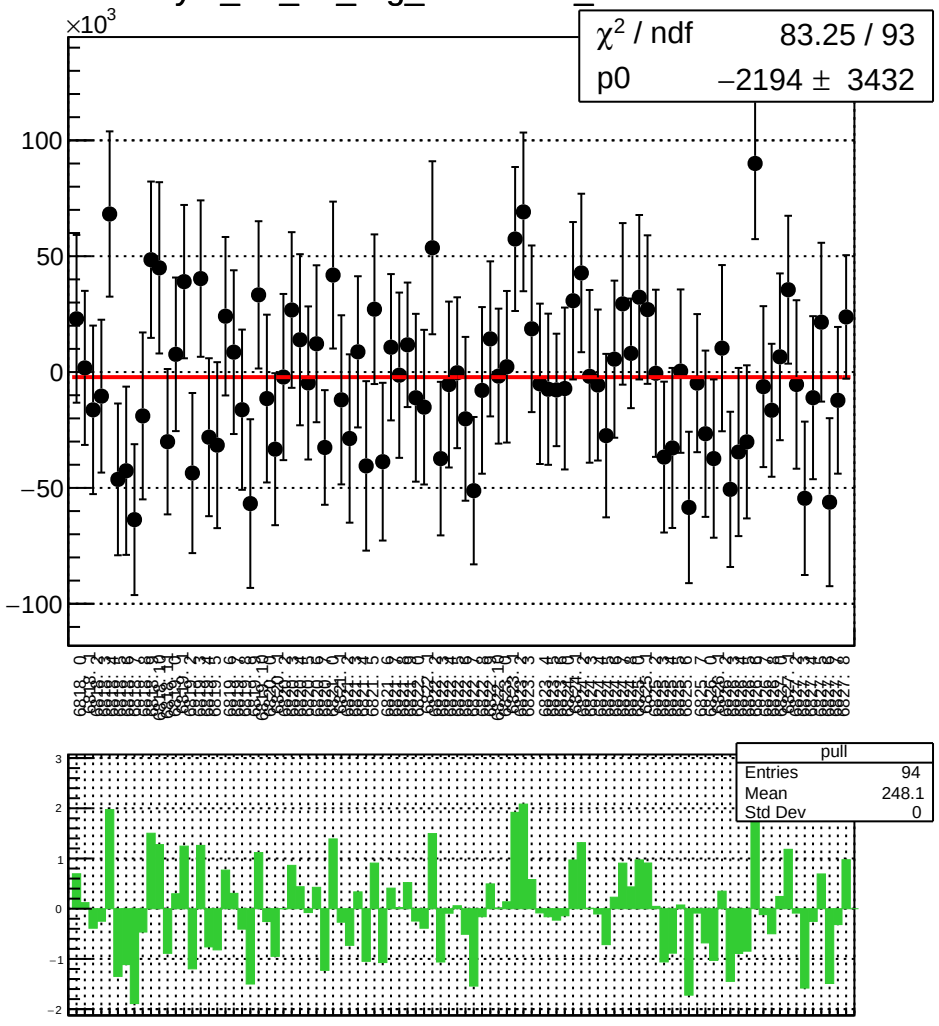

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 89.1 / 93
p0 4.14e−14 ± 5.914e−14
pull
Entries 94
Mean 42.42
Std Dev 35.59
pull1D
Entries 94
Mean 0.1807
Std Dev 0.9567

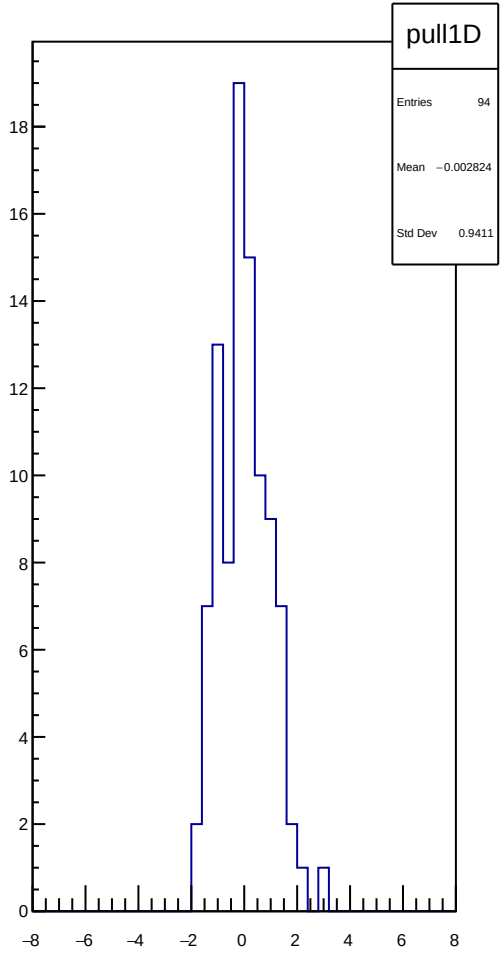

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.452e+05 / 93
p0 4.076e−11 ± 4.182e−14
0.6
0.5
0.4
0.3
0.2
0.1

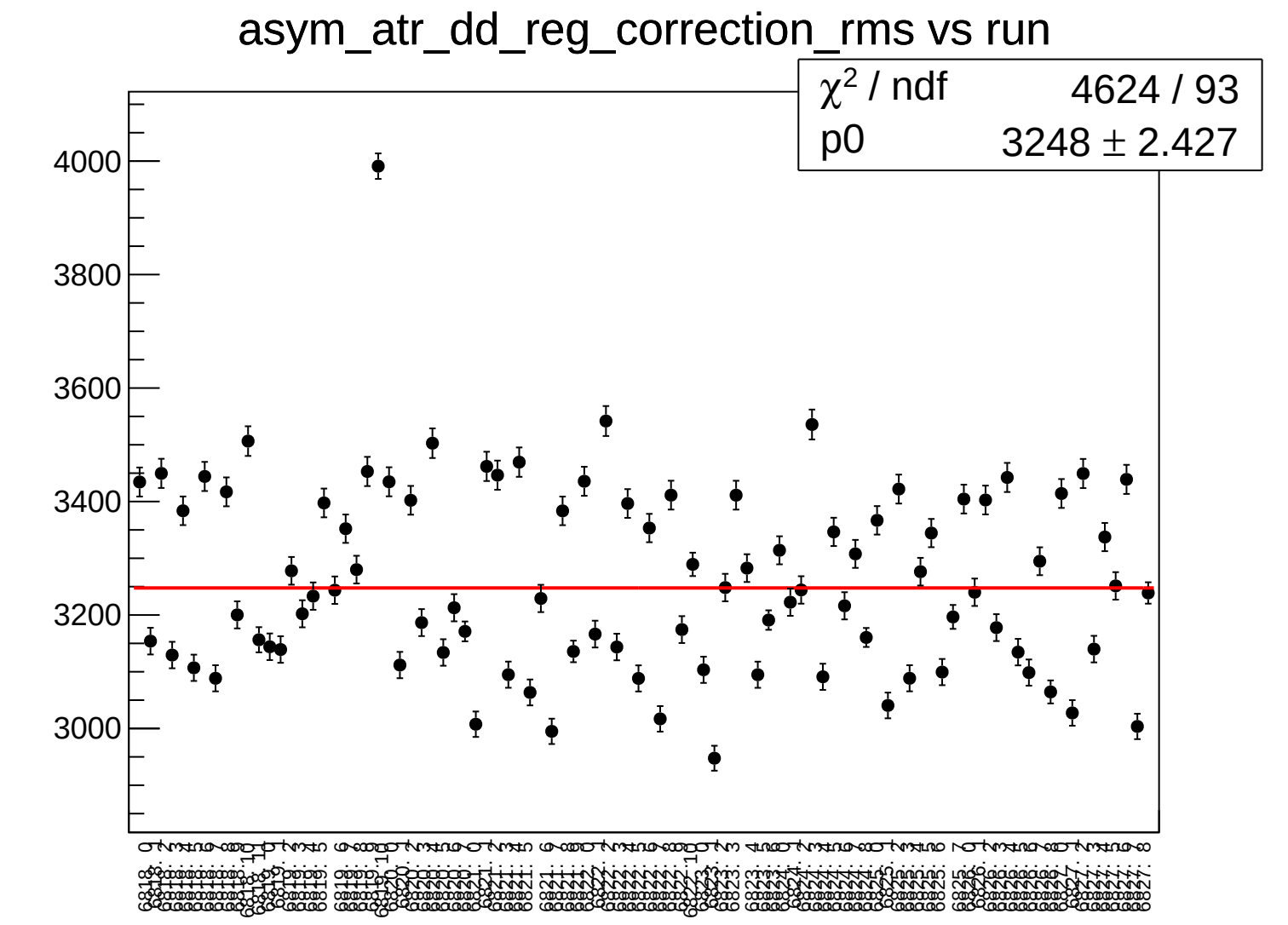

reg_asym_atr_dd_mean vs run
χ² / ndf 90.39 / 93
p0 1830 ± 1882
pull
Entries 94
Mean −104.8
Std Dev 0

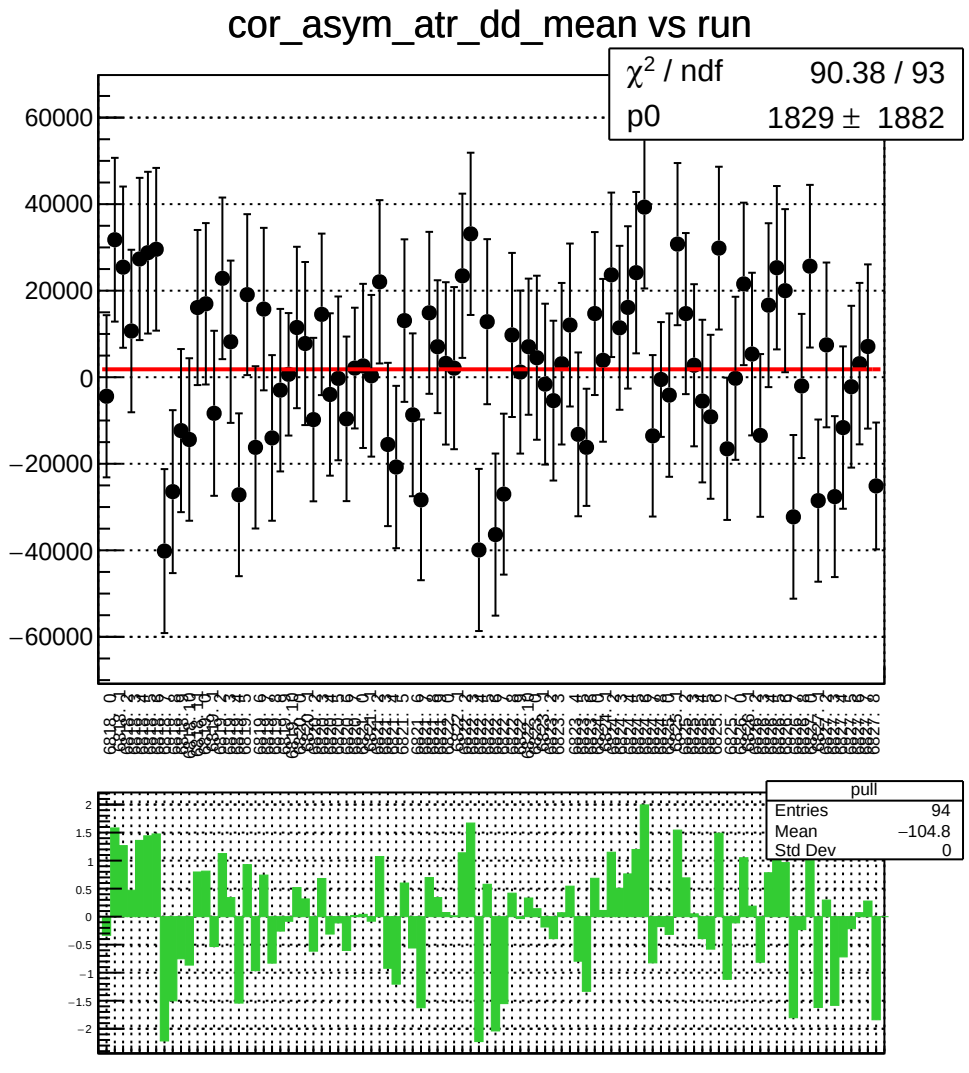

pull1D
Entries 94
Mean 0.01217
Std Dev 0.9805

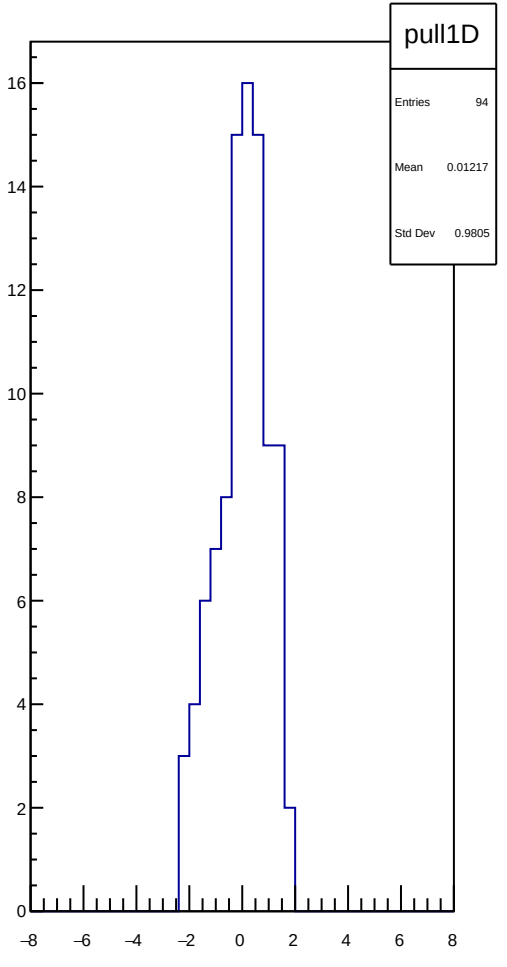

reg_asym_atr_dd_rms vs run
χ^2 / ndf 78.39 / 93
p0 1783 ± 1.331
1820
1800
1780
1760
1740

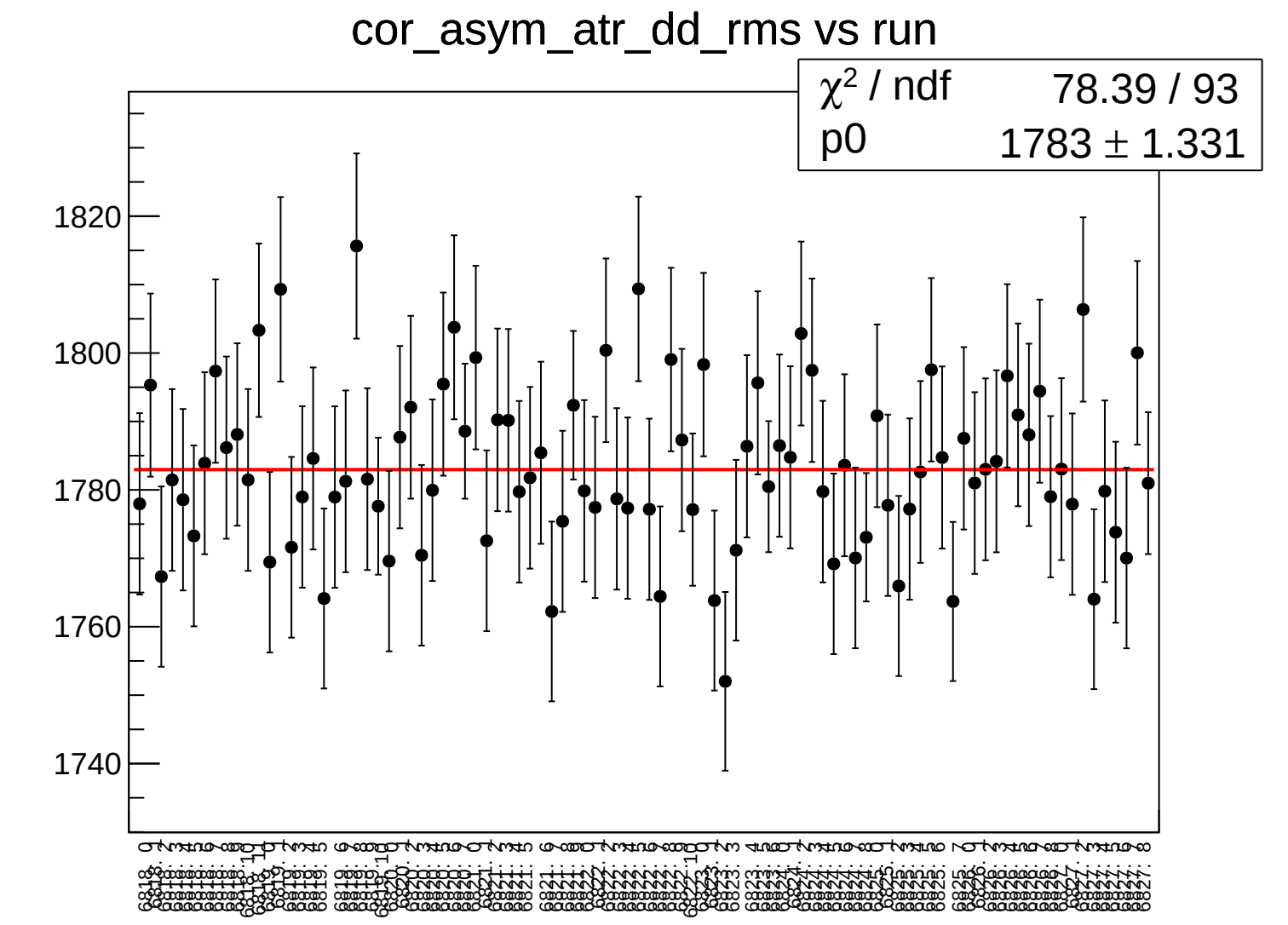

asym_atr_dd_reg_correction_mean vs run
χ² / ndf 83.25 / 93
p0 −2194 ± 3432
×10³
100
50
0
−50
−100
pull
Entries 94
Mean 248.1
Std Dev 0
3
2
1
0
−1
−2

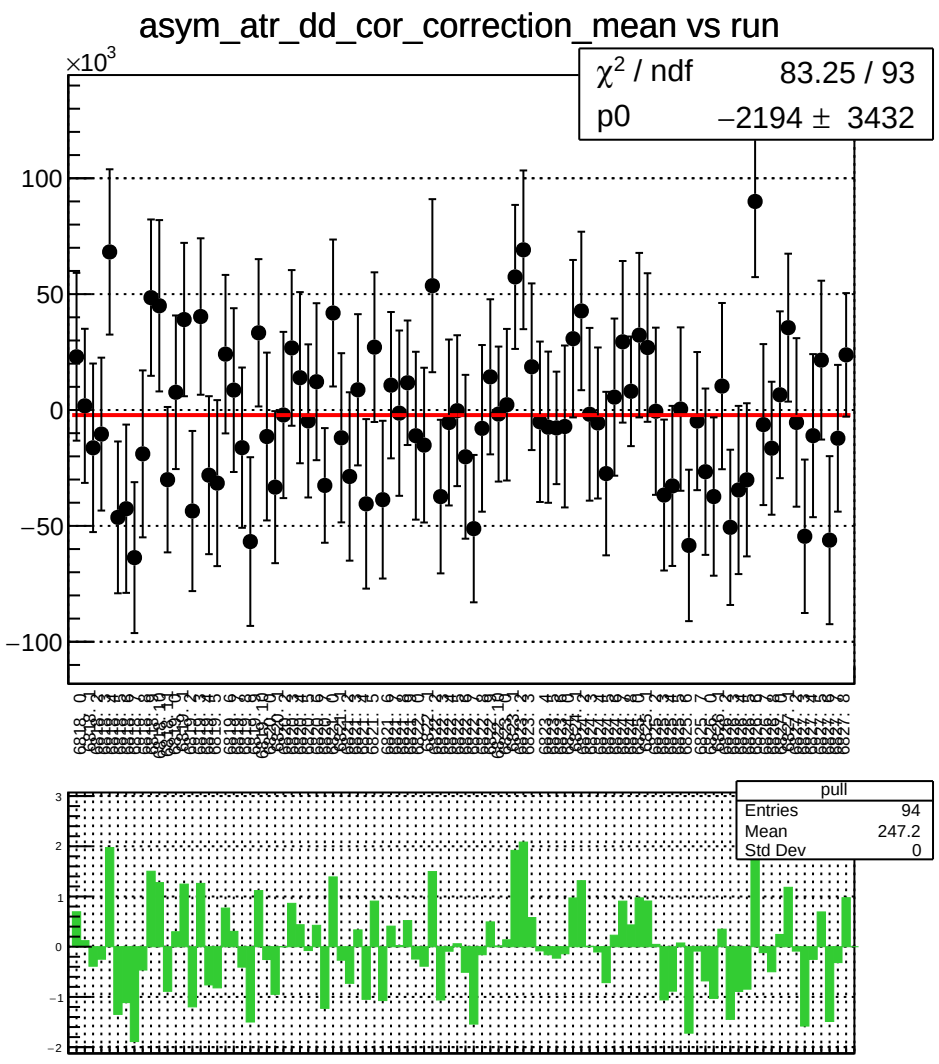

pull1D
Entries 94
Mean −0.002824
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

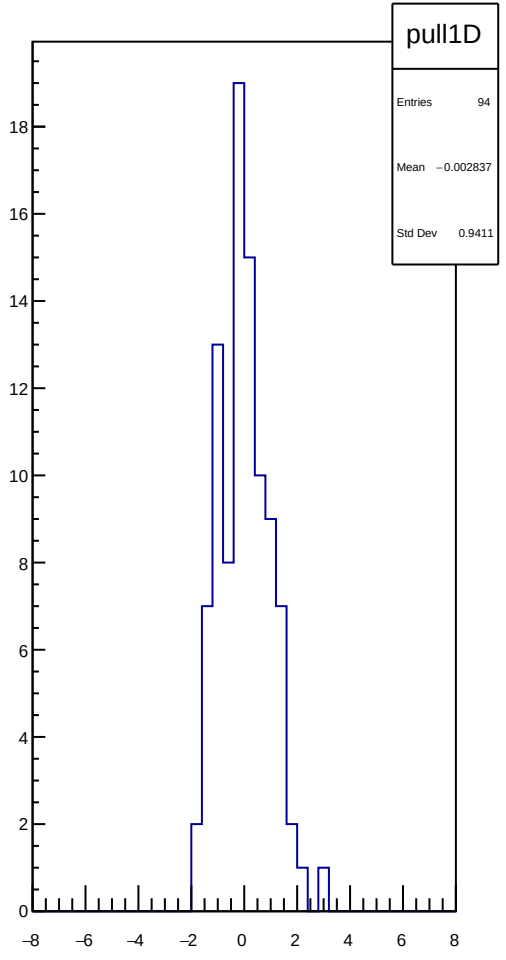

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 4624 / 93
p0 3248 ± 2.427
4000
3800
3600
3400
3200
3000

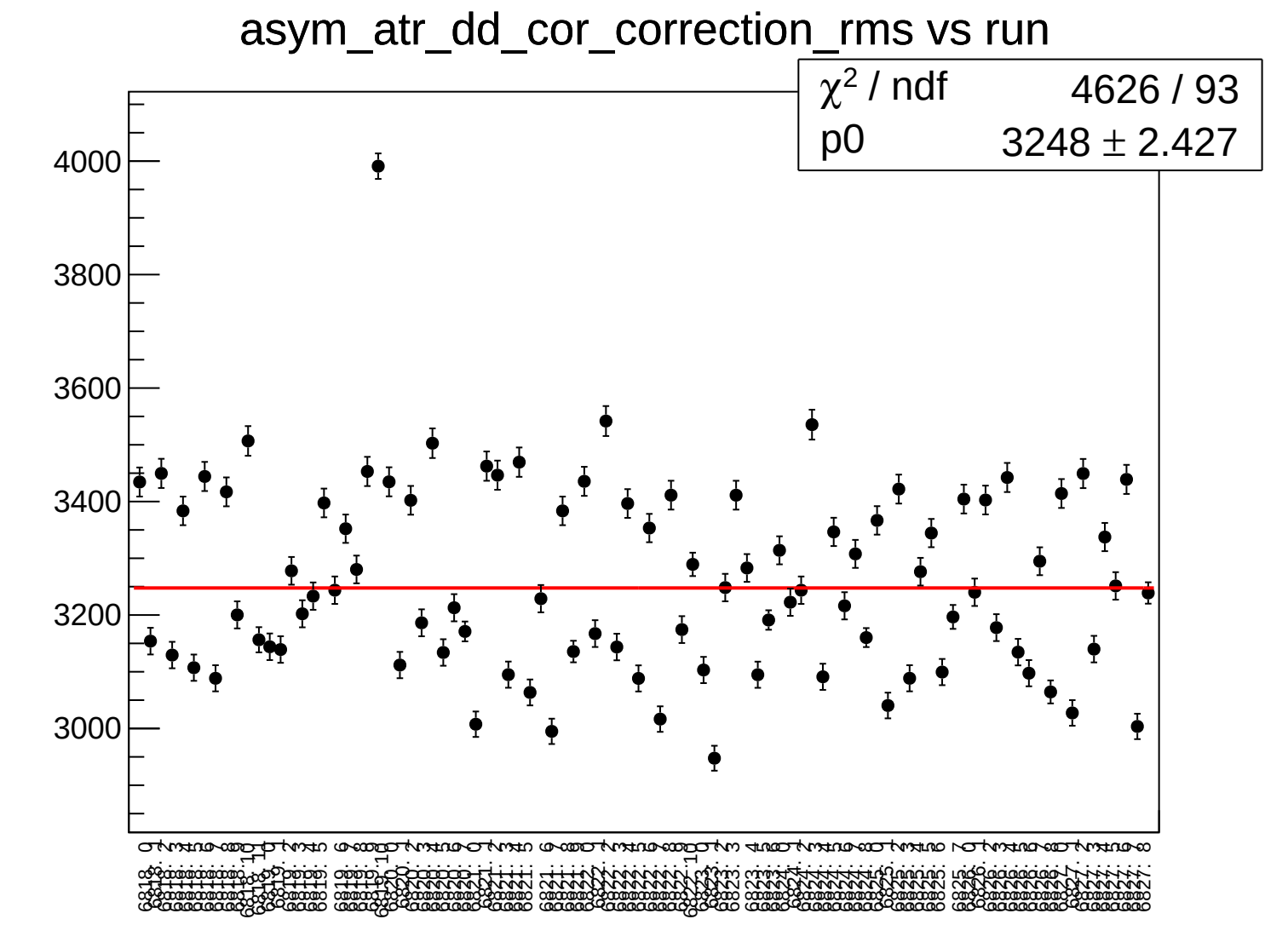

cor_asym_atr_dd_mean vs run
χ² / ndf 90.38 / 93
p0 1829 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

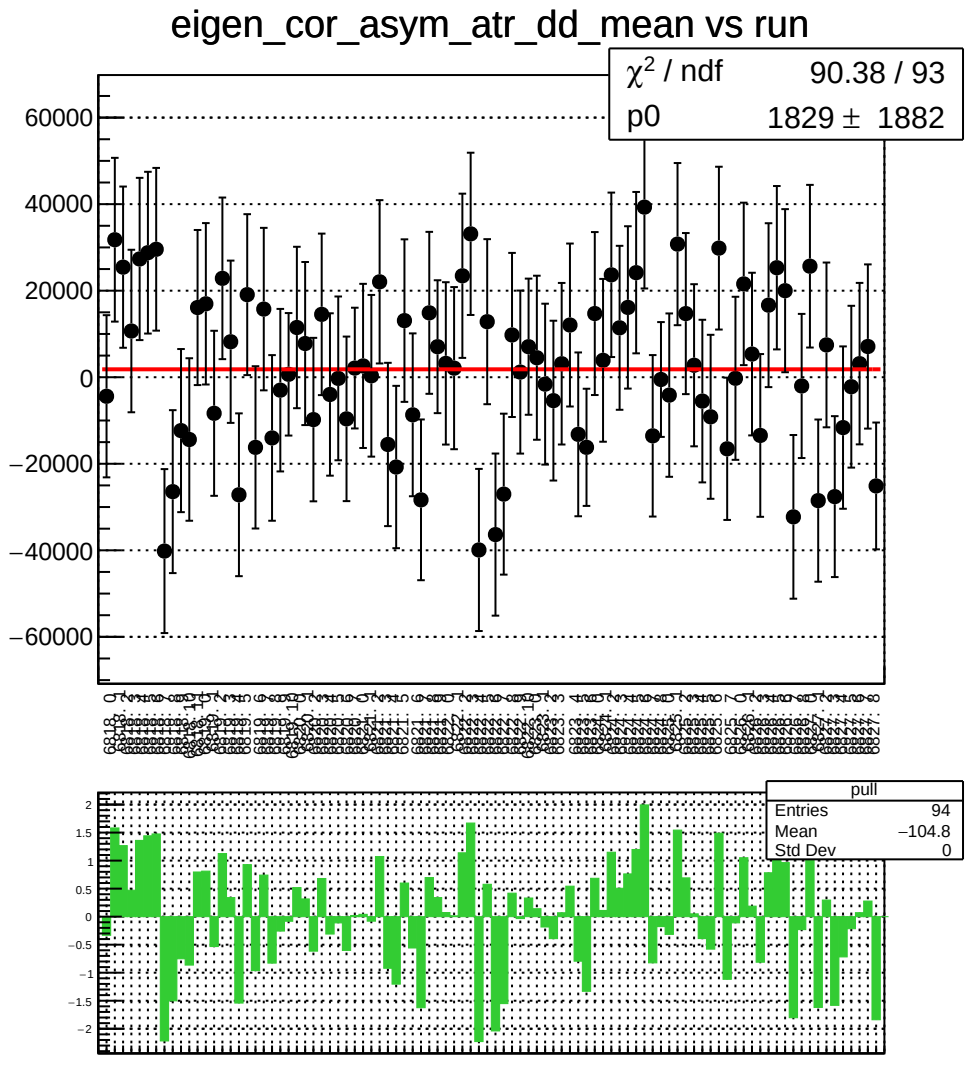

pull1D
Entries 94
Mean 0.01217
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

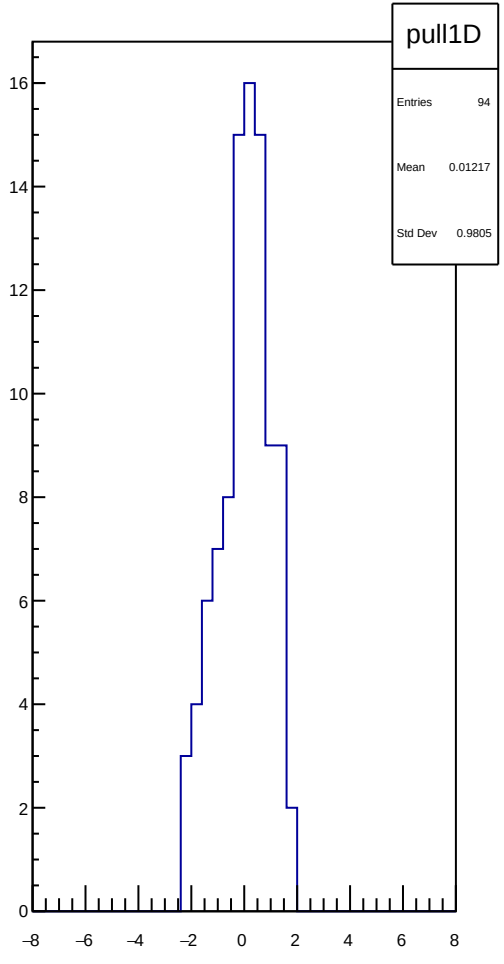

cor_asym_atr_dd_rms vs run
χ^2 / ndf 78.39 / 93
p0 1783 ± 1.331
1820
1800
1780
1760
1740

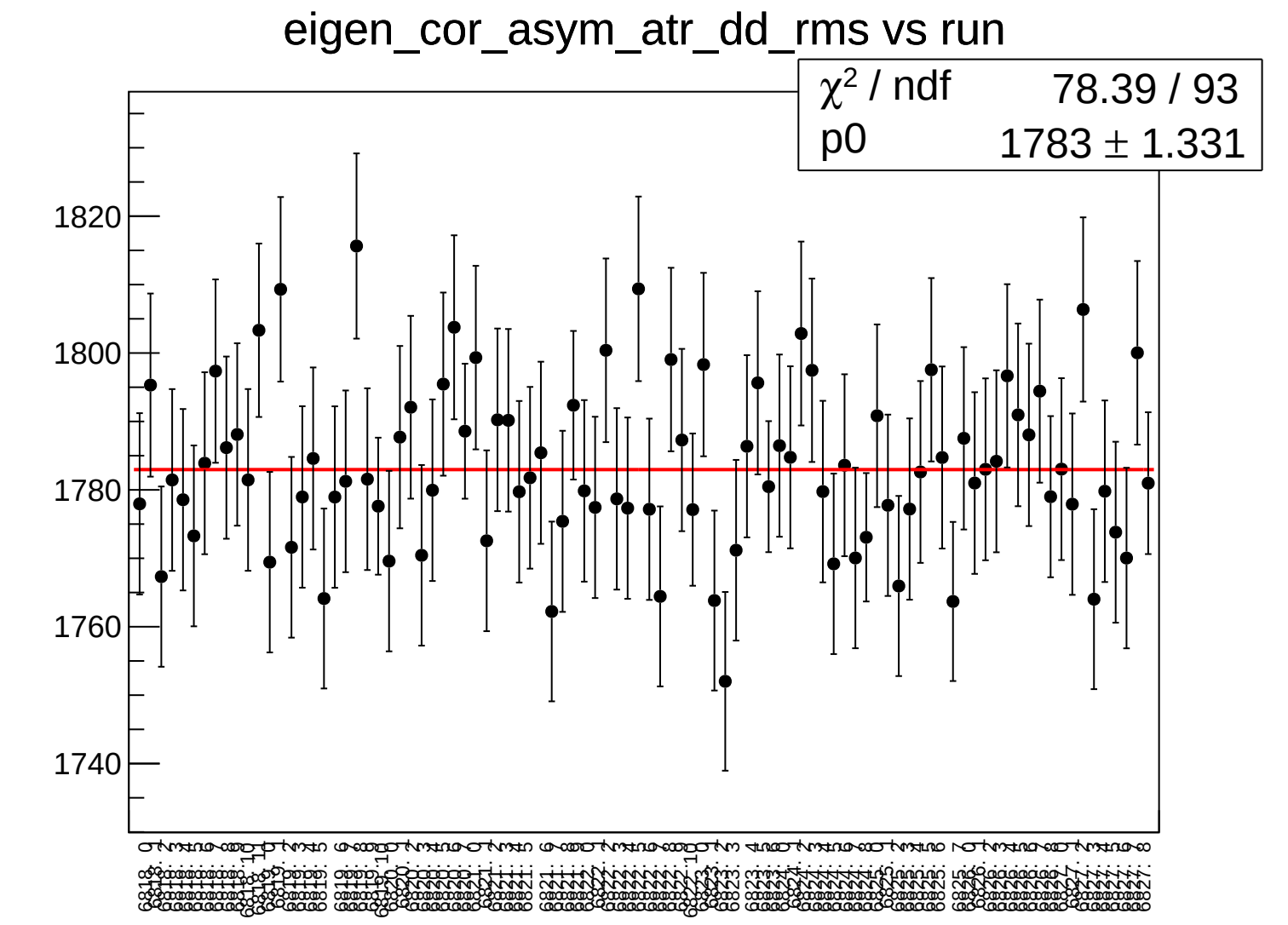

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.25 / 93
p0 −2194 ± 3432
100
50
0
−50
−100
pull
Entries 94
Mean 247.2
Std Dev 0
3
2
1
0
−1
−2

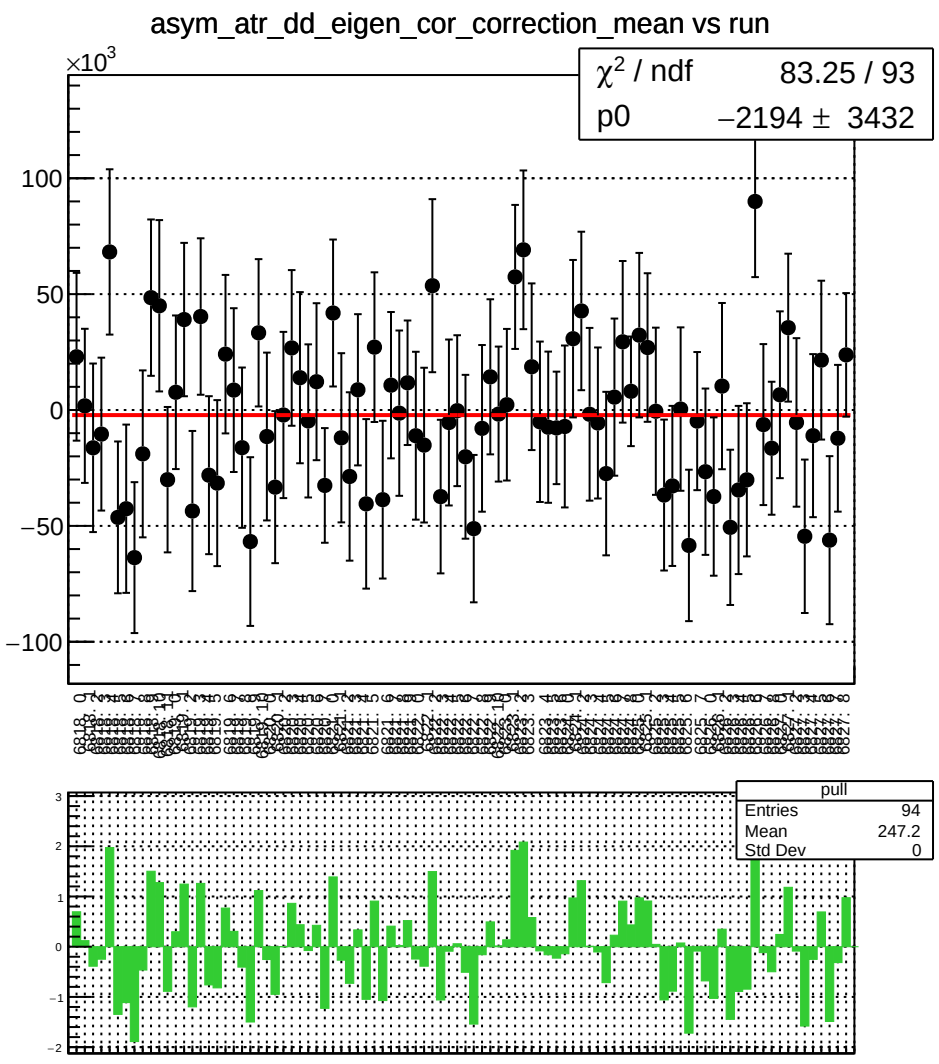

pull1D
Entries 94
Mean −0.002837
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

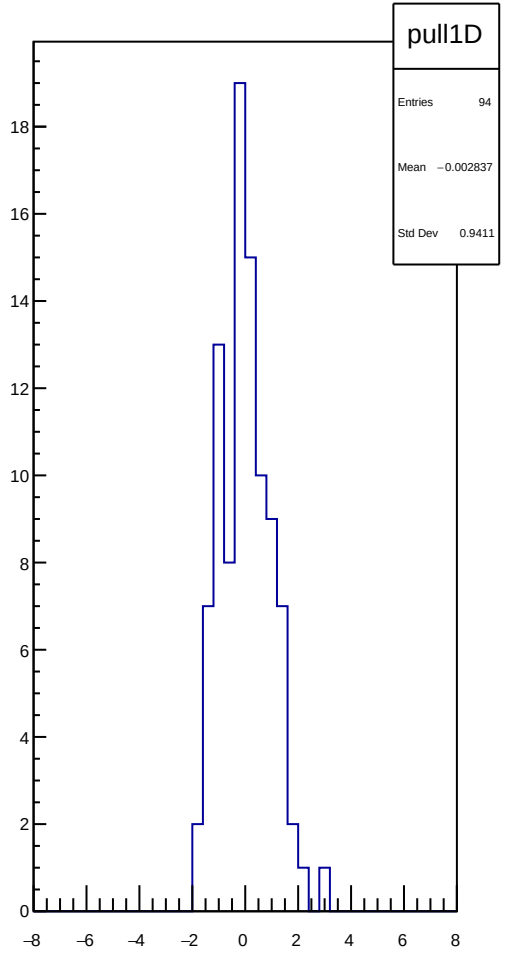

asym_atr_dd_cor_correction_rms vs run
χ^2 / ndf 4626 / 93
p0 3248 ± 2.427
4000
3800
3600
3400
3200
3000

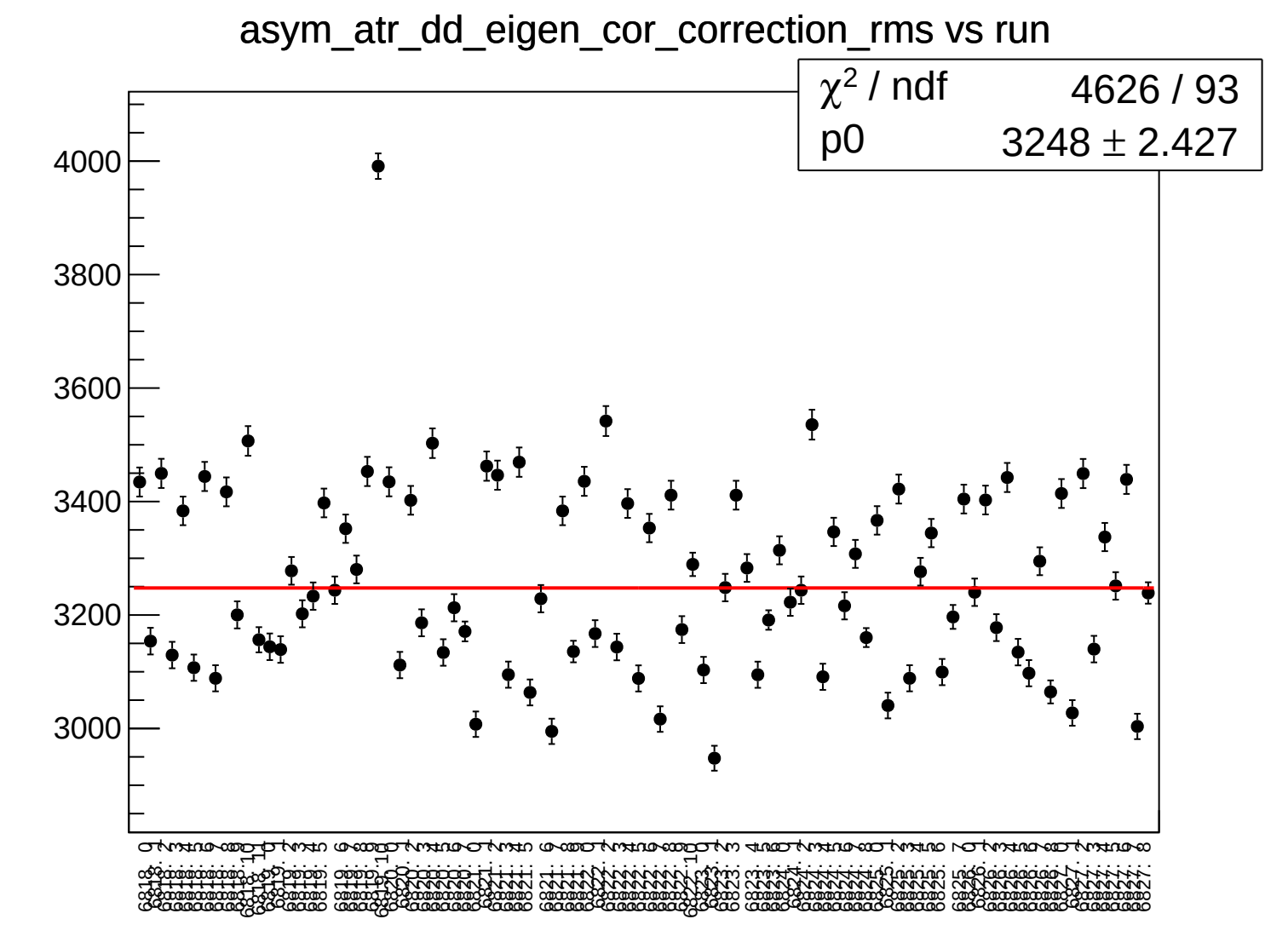

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 90.38 / 93
p0 1829 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −104.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

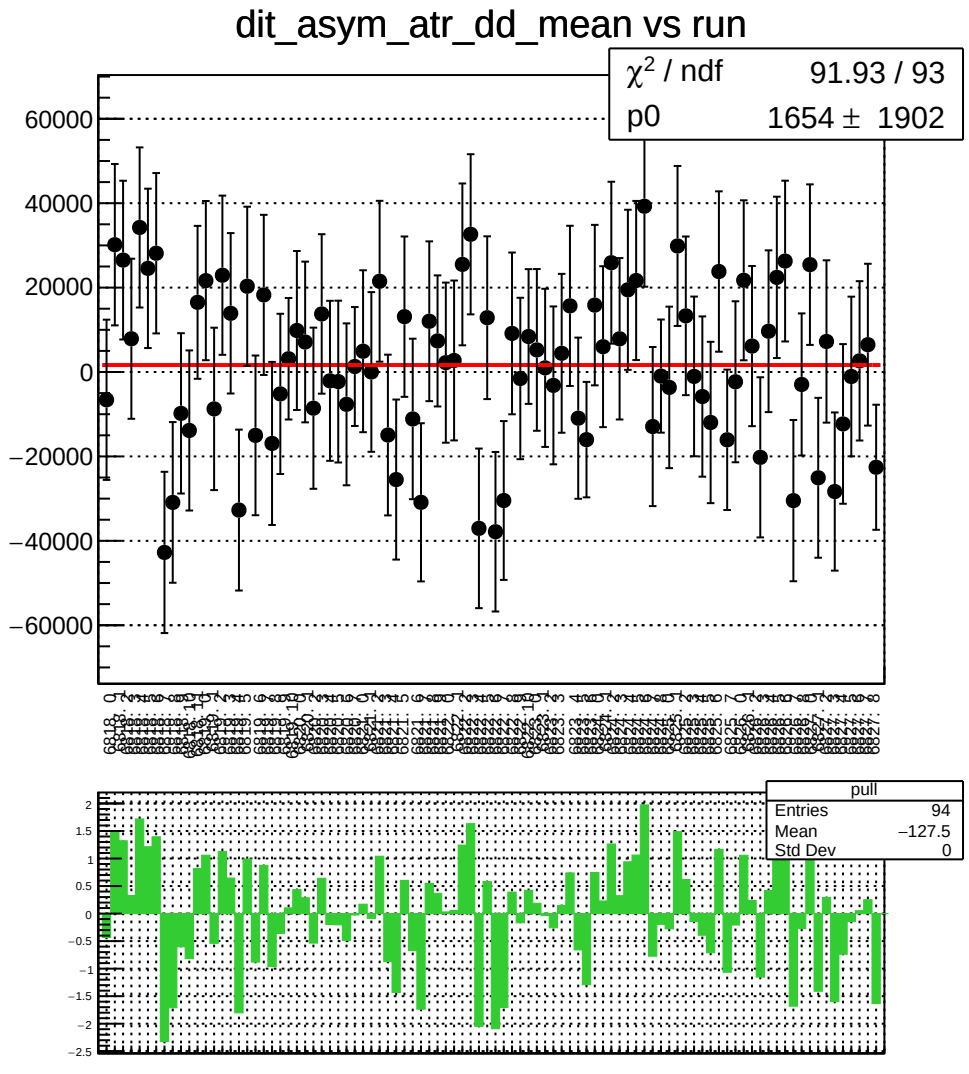

pull1D
Entries 94
Mean 0.01217
Std Dev 0.9805
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

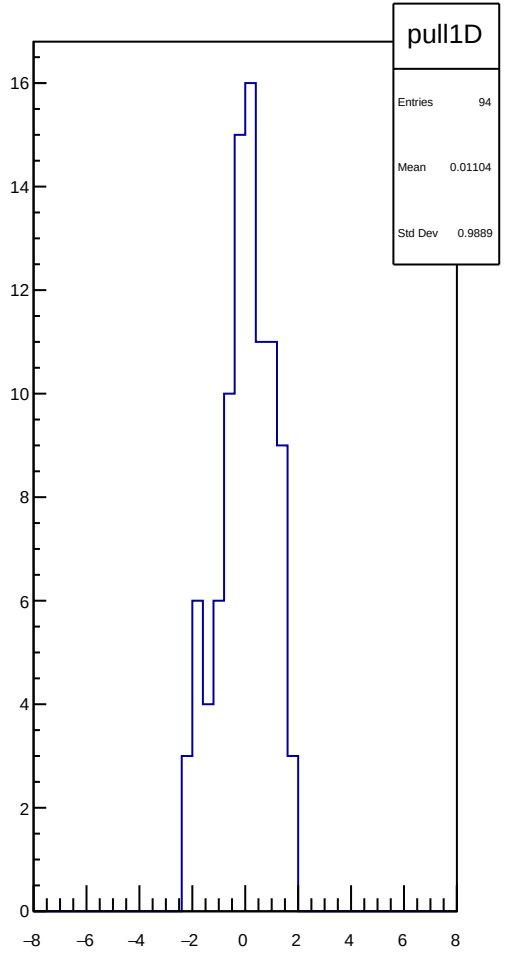

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 78.39 / 93
p0 1783 ± 1.331
1820
1800
1780
1760
1740

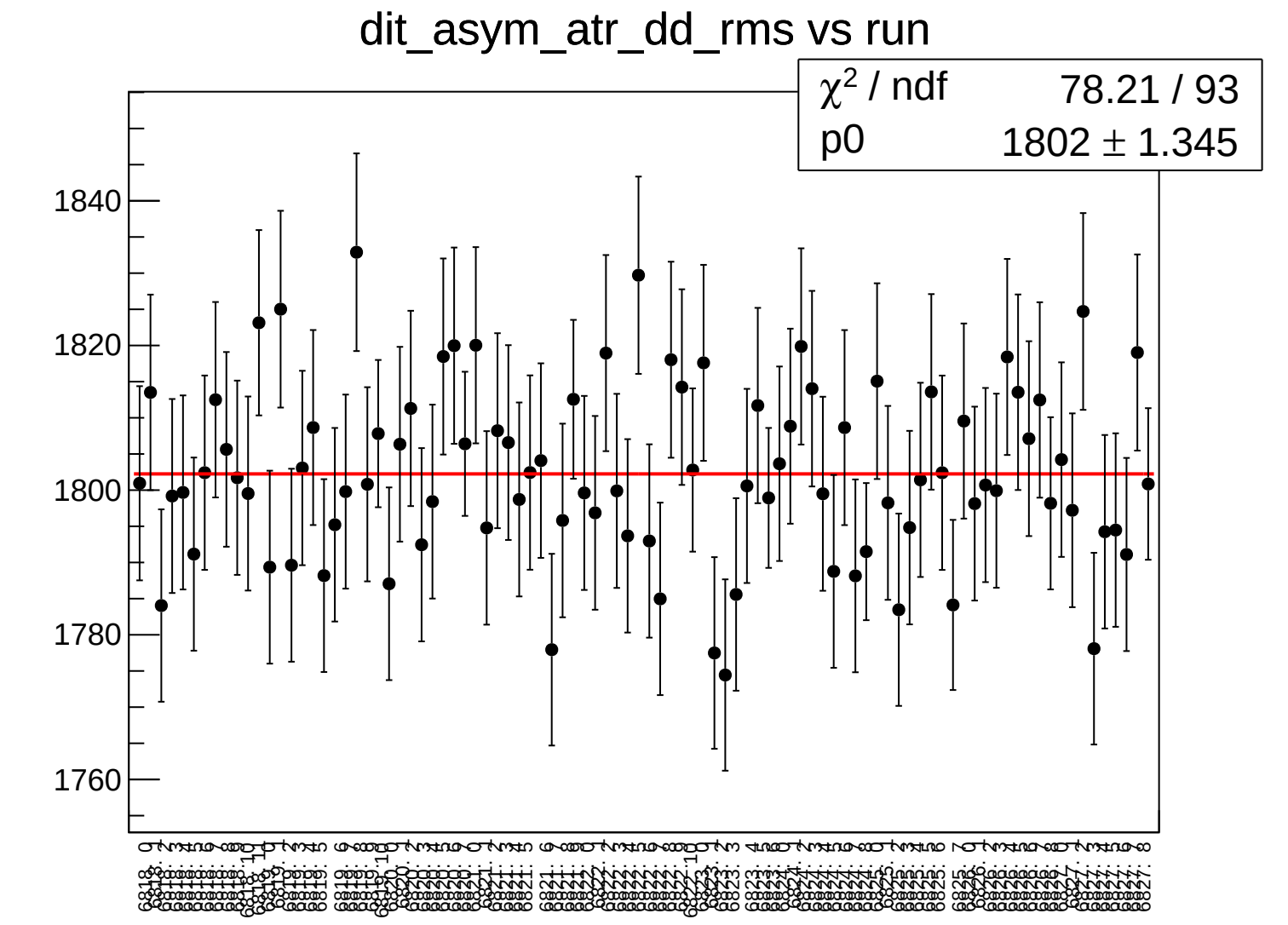

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.25 / 93
p0 −2194 ± 3432
100
50
0
−50
−100
pull
Entries 94
Mean 247.2
Std Dev 0
3
2
1
0
−1
−2

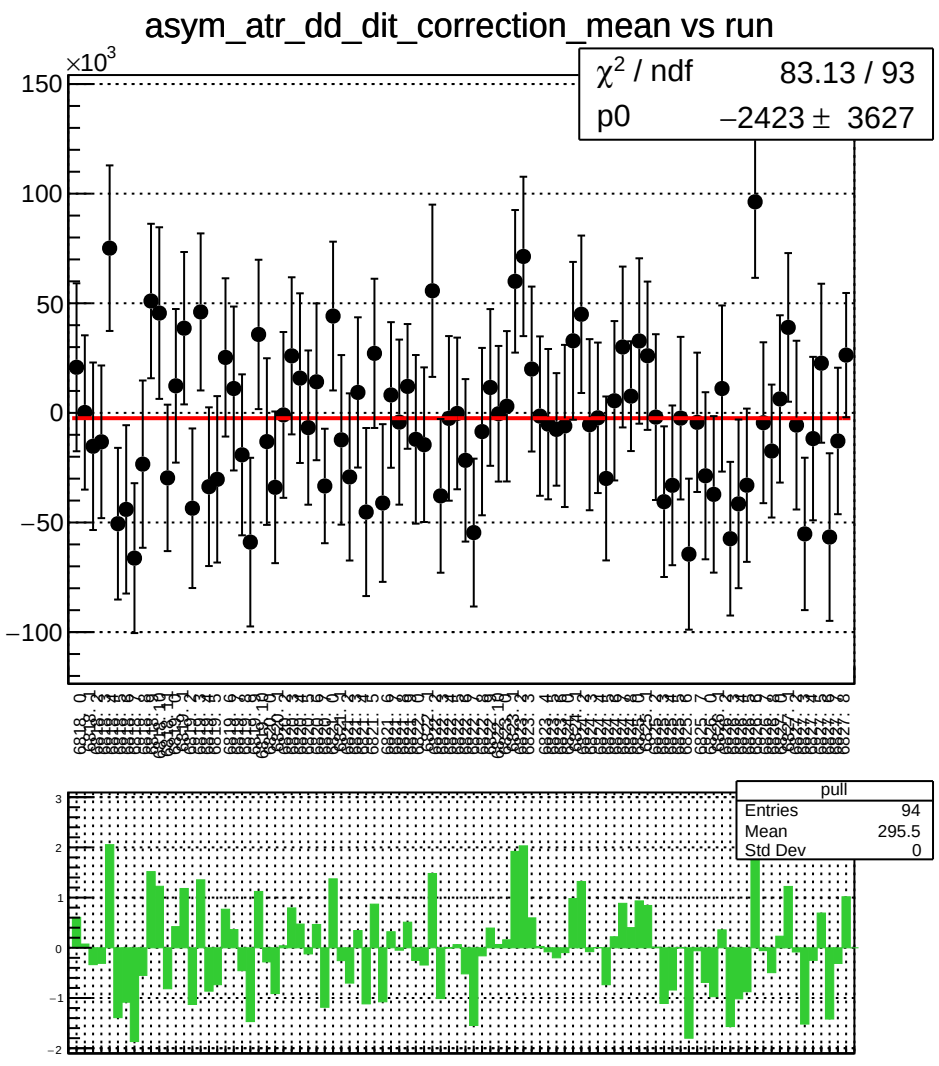

pull1D
Entries 94
Mean −0.002837
Std Dev 0.9411
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

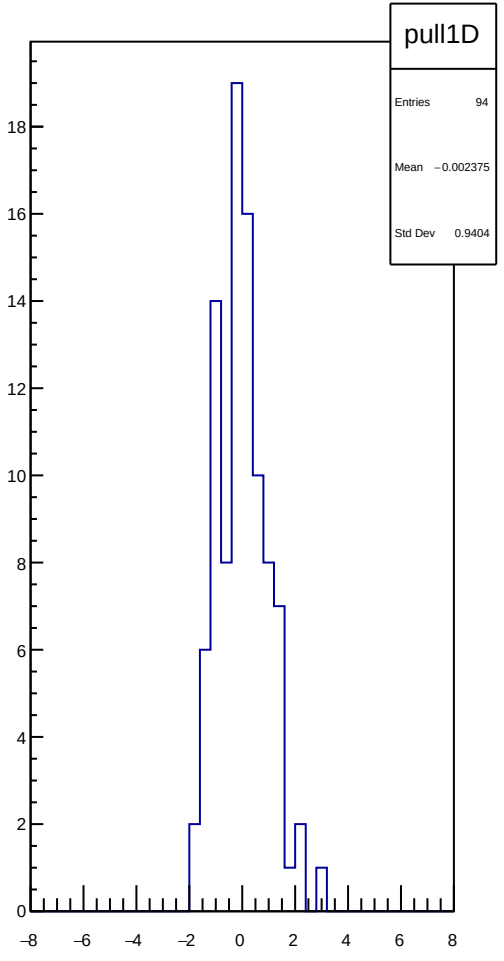

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4626 / 93
p0 3248 ± 2.427
4000
3800
3600
3400
3200
3000

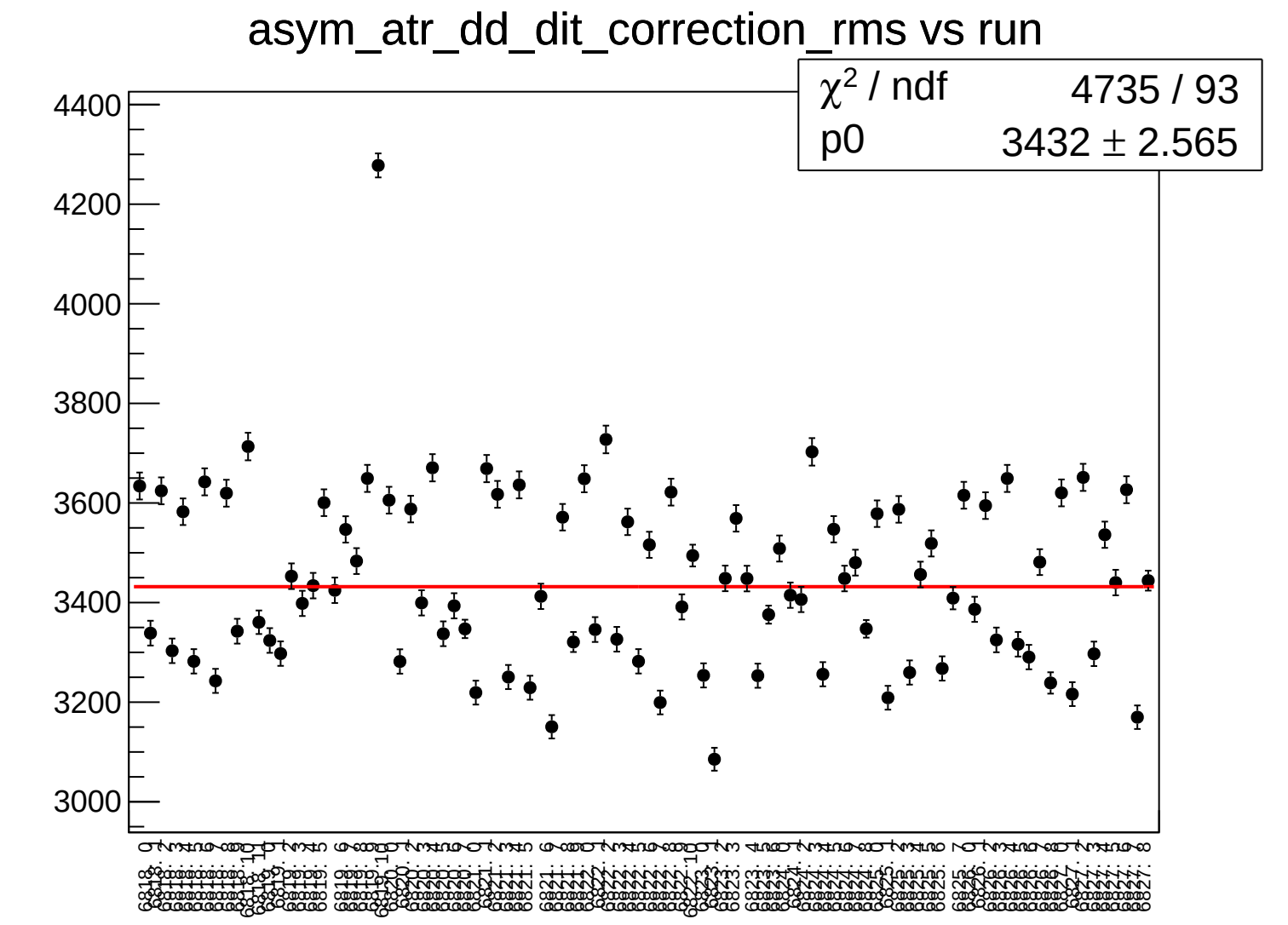

dit_asym_atr_dd_mean vs run
χ² / ndf 91.93 / 93
p0 1654 ± 1902
pull
Entries 94
Mean −127.5
Std Dev 0

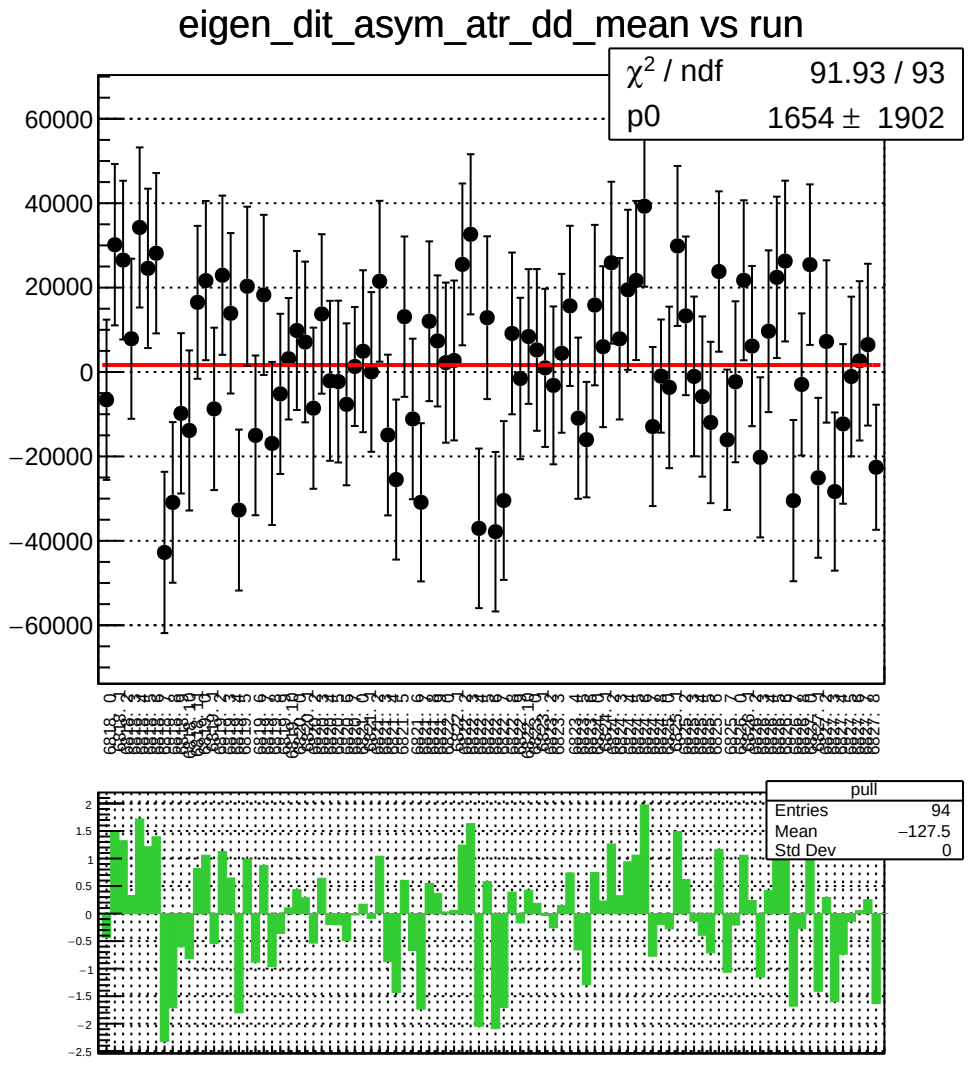

pull1D
Entries 94
Mean 0.01104
Std Dev 0.9889

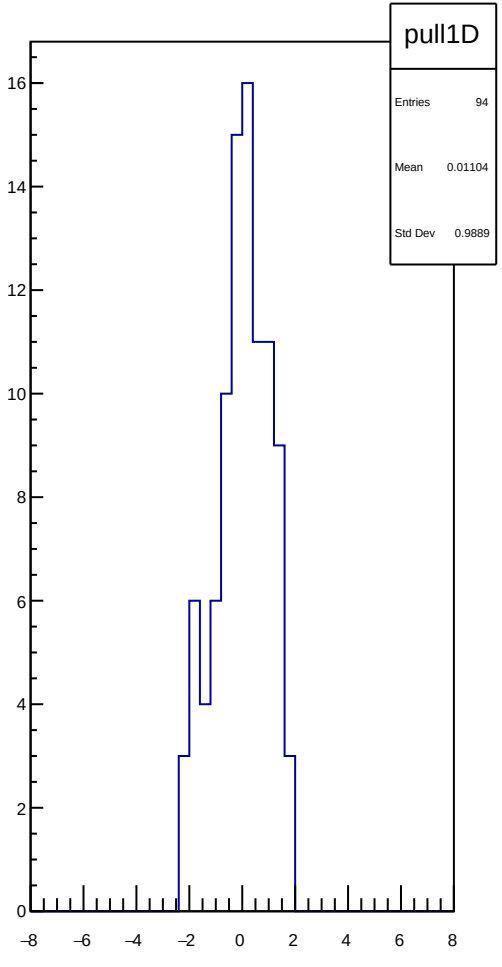

dit_asym_atr_dd_rms vs run
χ² / ndf 78.21 / 93
p0 1802 ± 1.345
1840
1820
1800
1780
1760

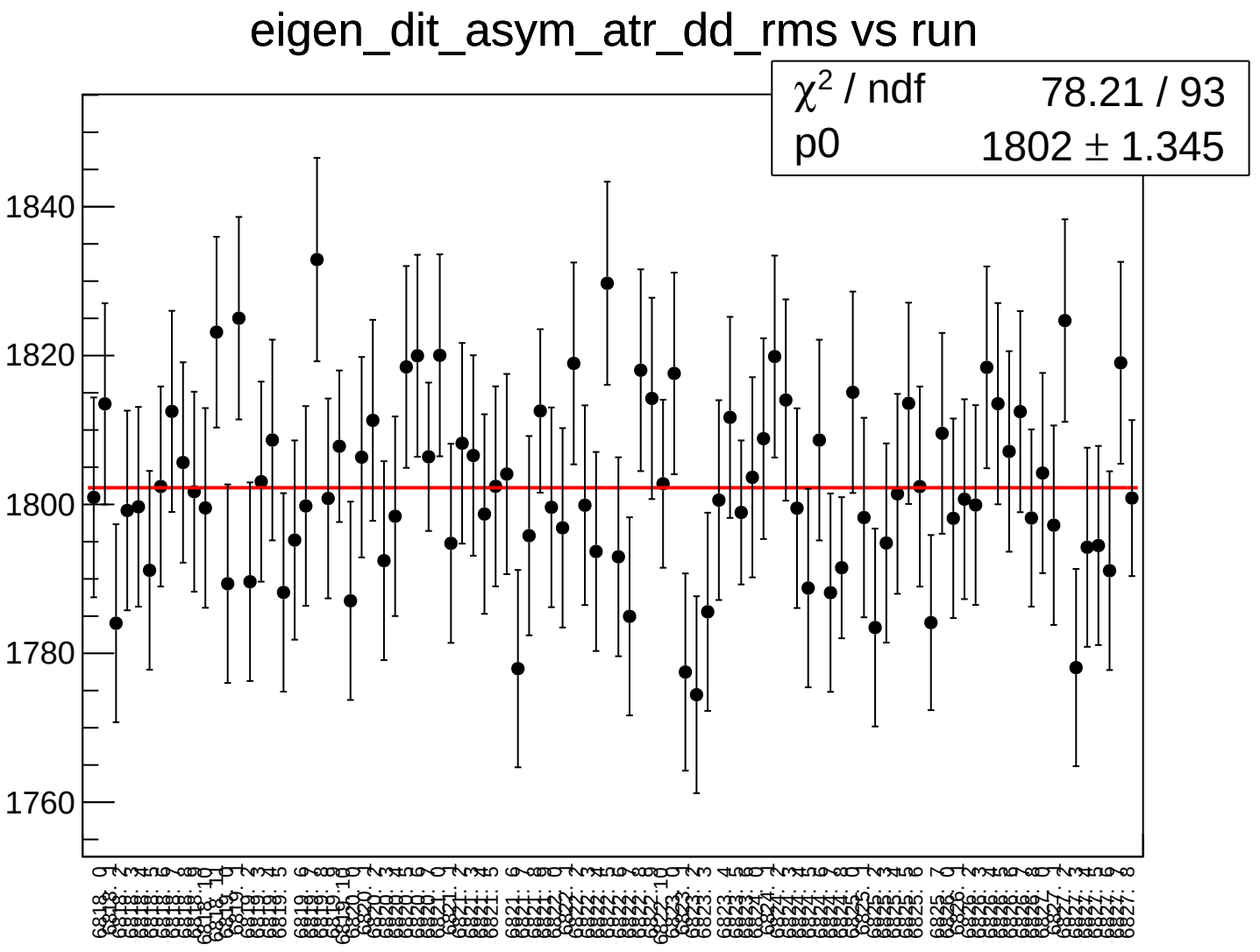

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 83.13 / 93
p0 −2423 ± 3627
150
100
50
0
−50
−100
pull
Entries 94
Mean 295.5
Std Dev 0
3
2
1
0
−1
−2

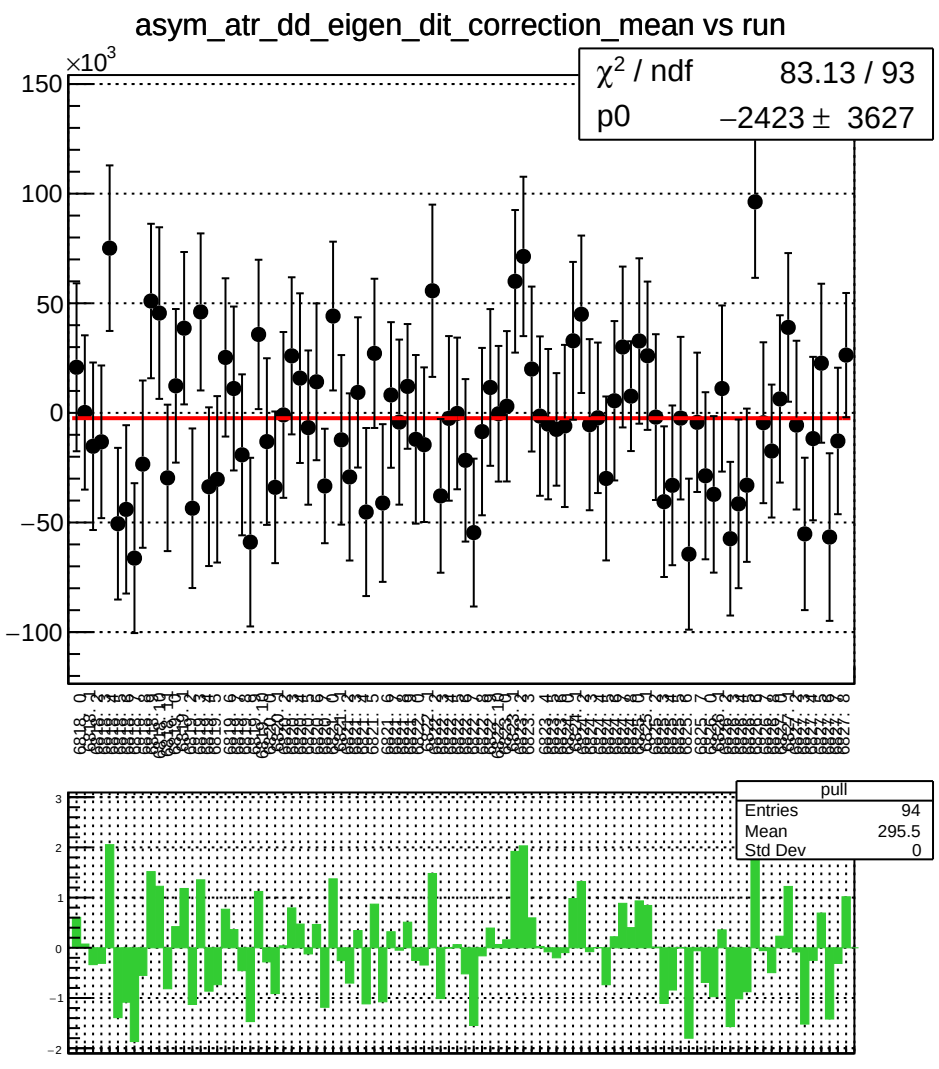

pull1D
Entries 94
Mean −0.002375
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

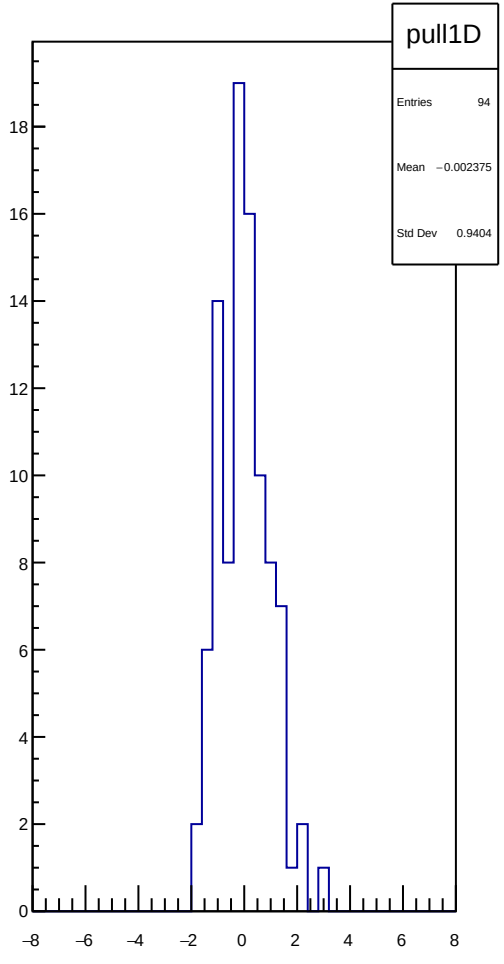

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 4735 / 93
p0 3432 ± 2.565
4400
4200
4000
3800
3600
3400
3200
3000

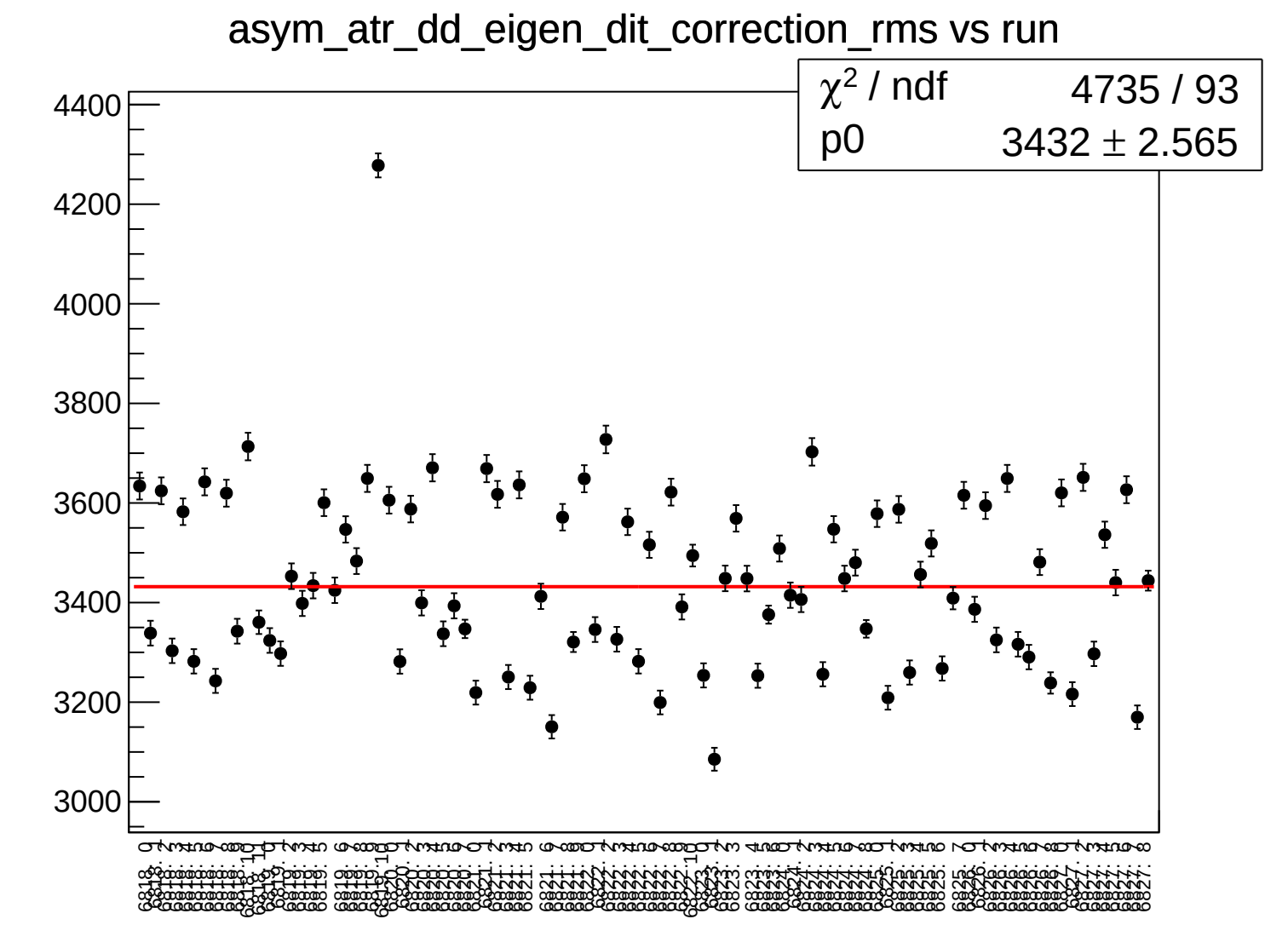

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 91.93 / 93
p0 1654 ± 1902
pull
Entries 94
Mean −127.5
Std Dev 0

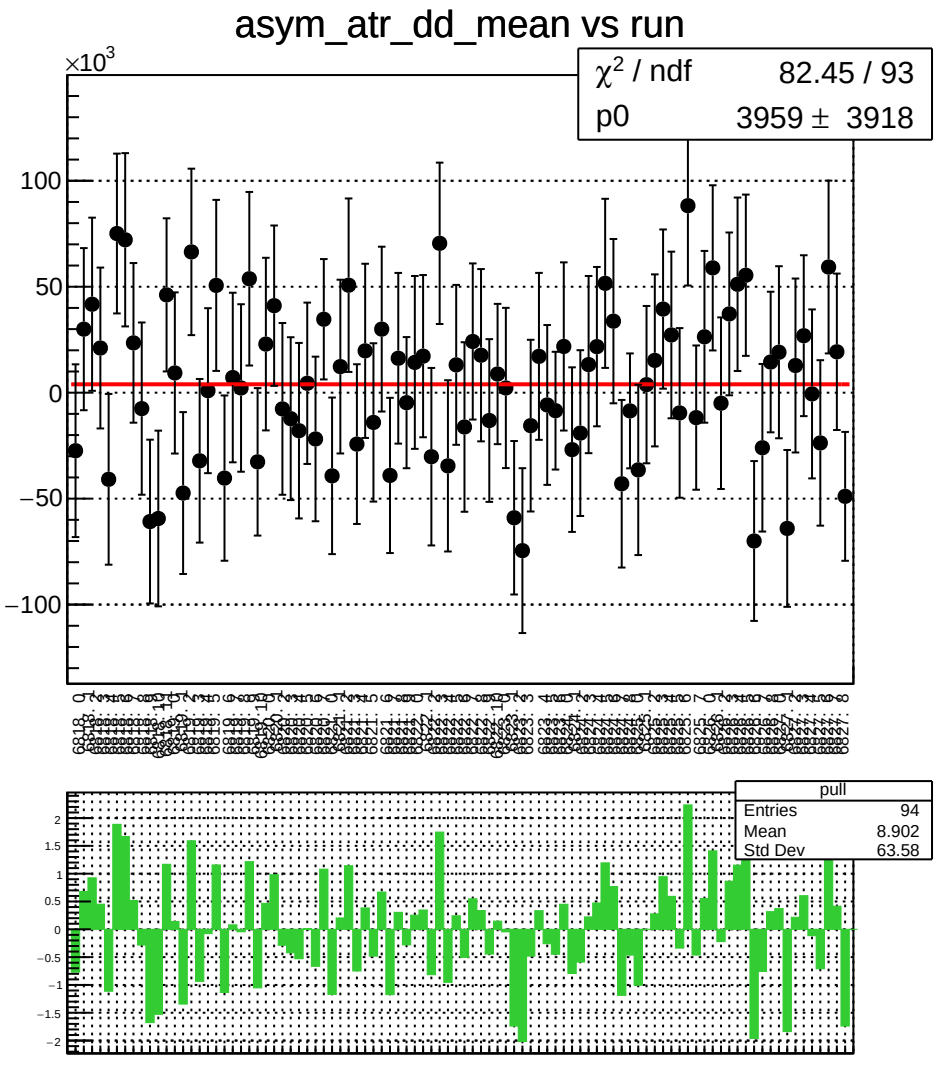

pull1D
Entries 94
Mean 0.01104
Std Dev 0.9889

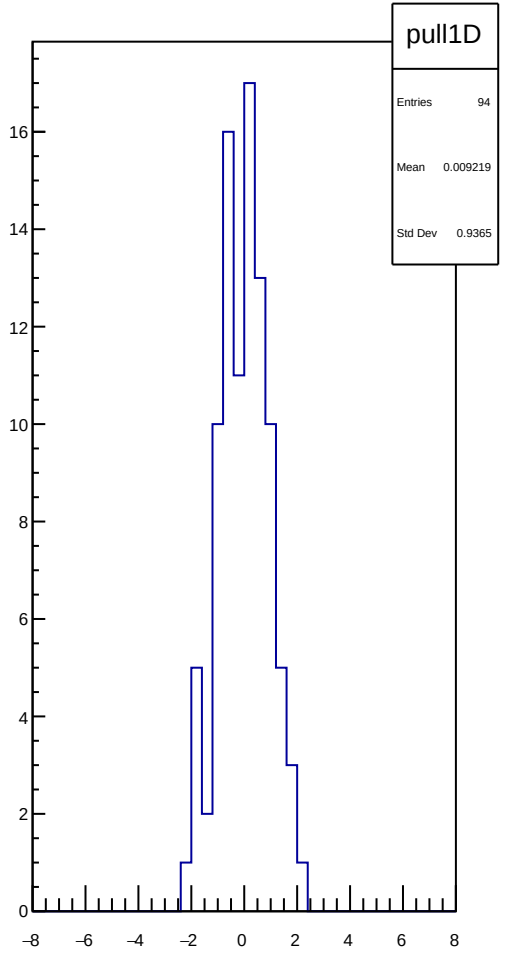

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 78.21 / 93
p0 1802 ± 1.345
1840
1820
1800
1780
1760

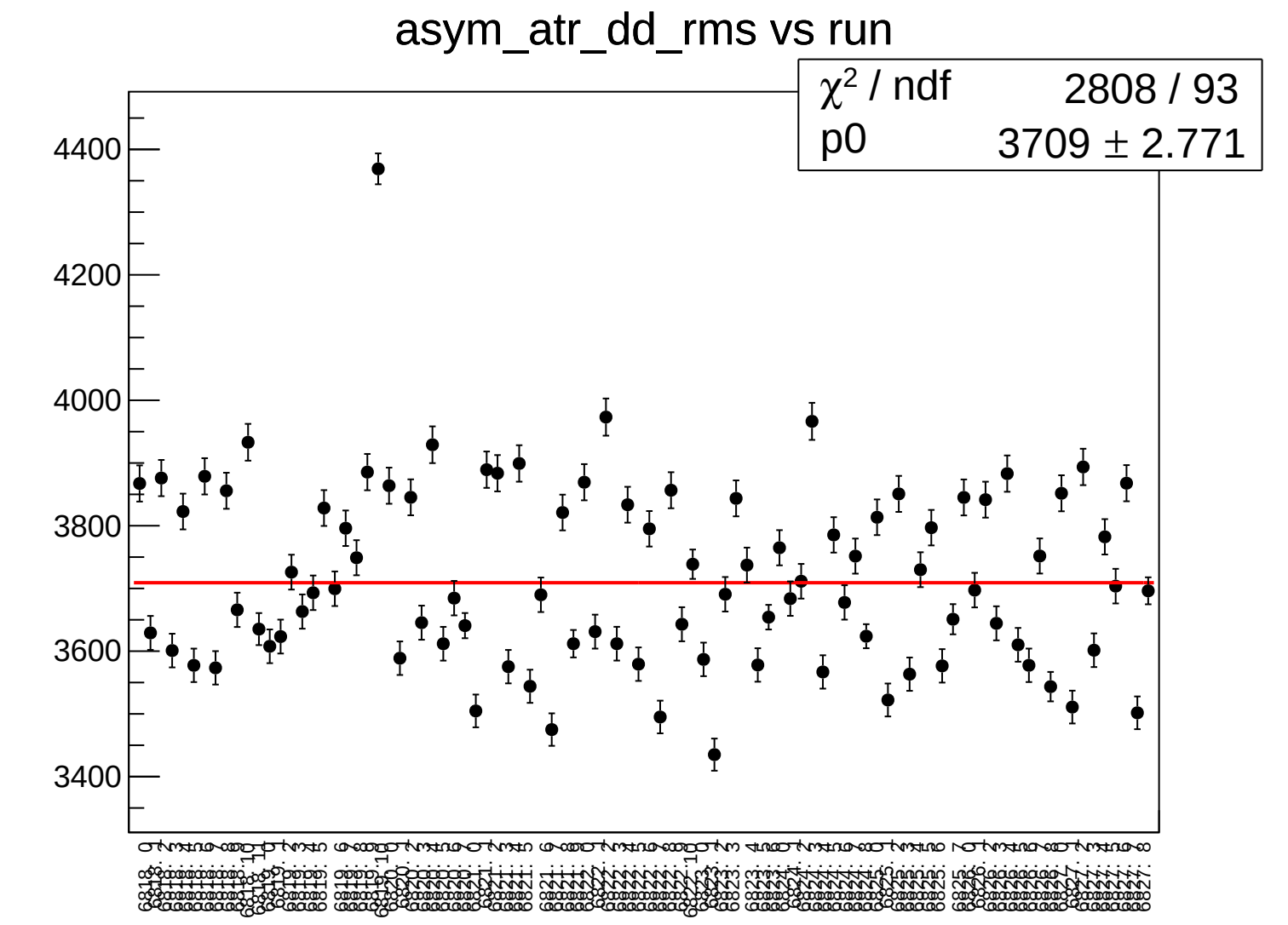

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.13 / 93
p0 −2423 ± 3627
150
100
50
0
−50
−100
pull
Entries 94
Mean 295.5
Std Dev 0
3
2
1
0
−1
−2

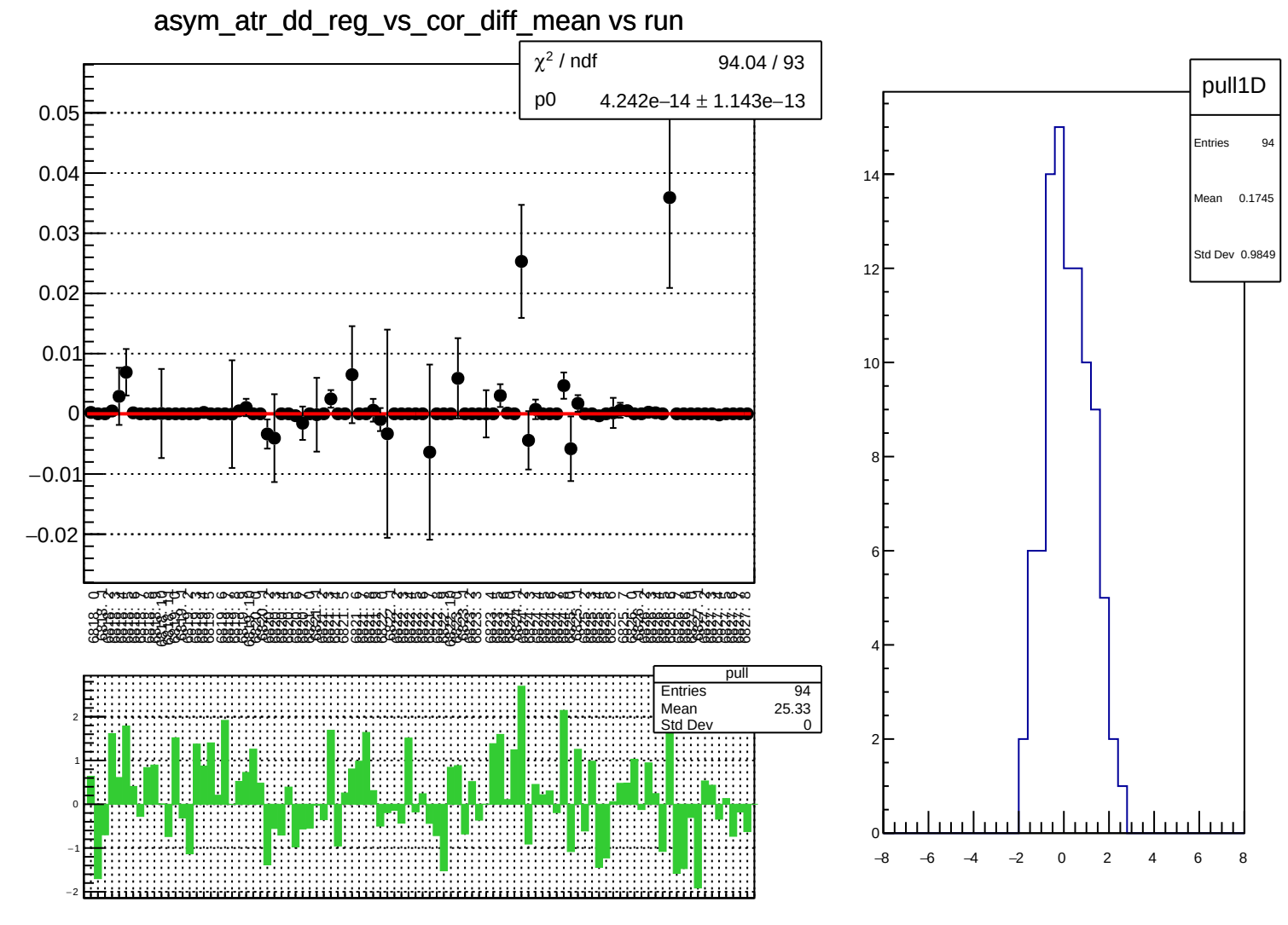

pull1D
Entries 94
Mean −0.002375
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

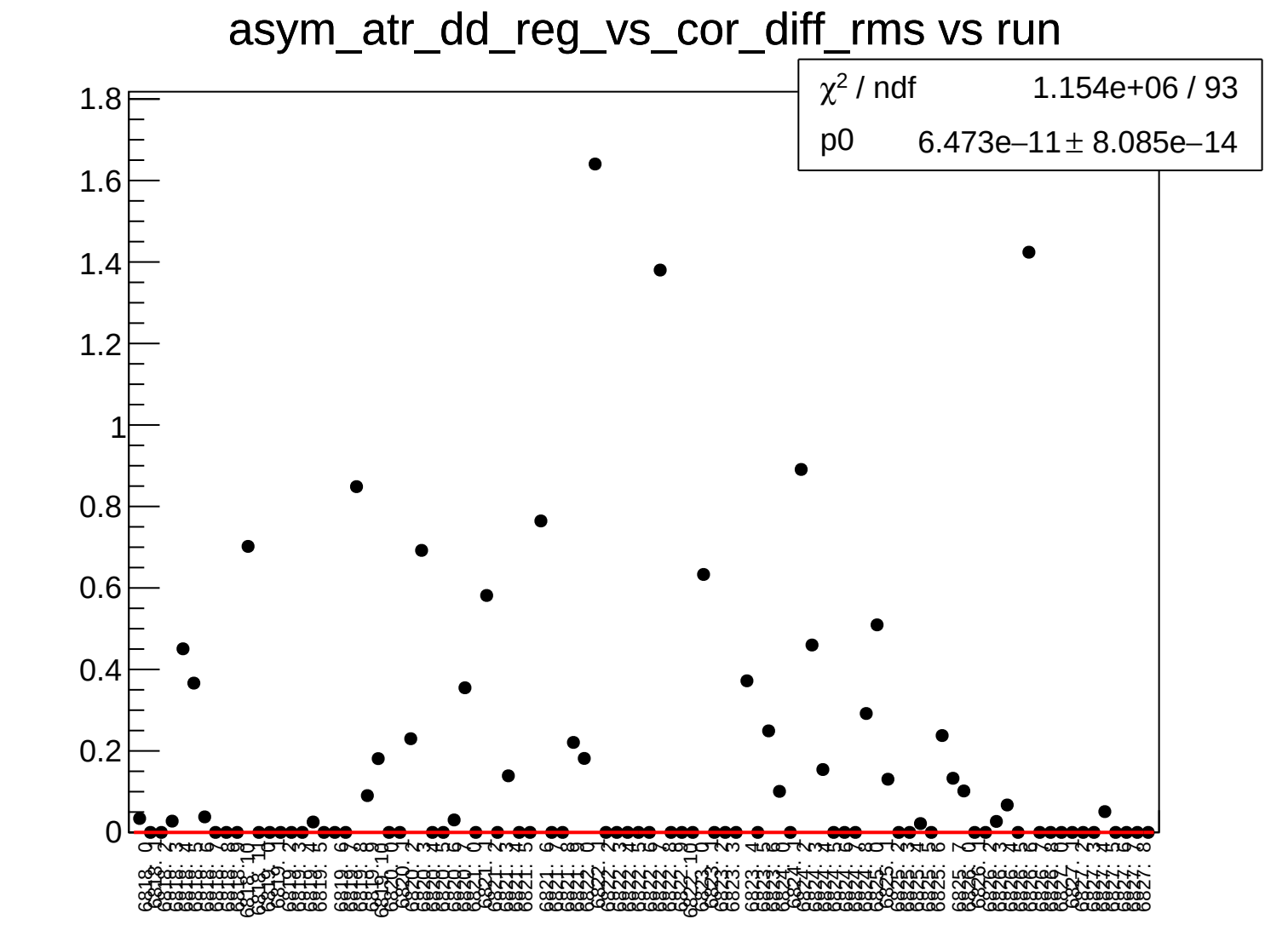

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 4735 / 93
p0 3432 ± 2.565
4400
4200
4000
3800
3600
3400
3200
3000

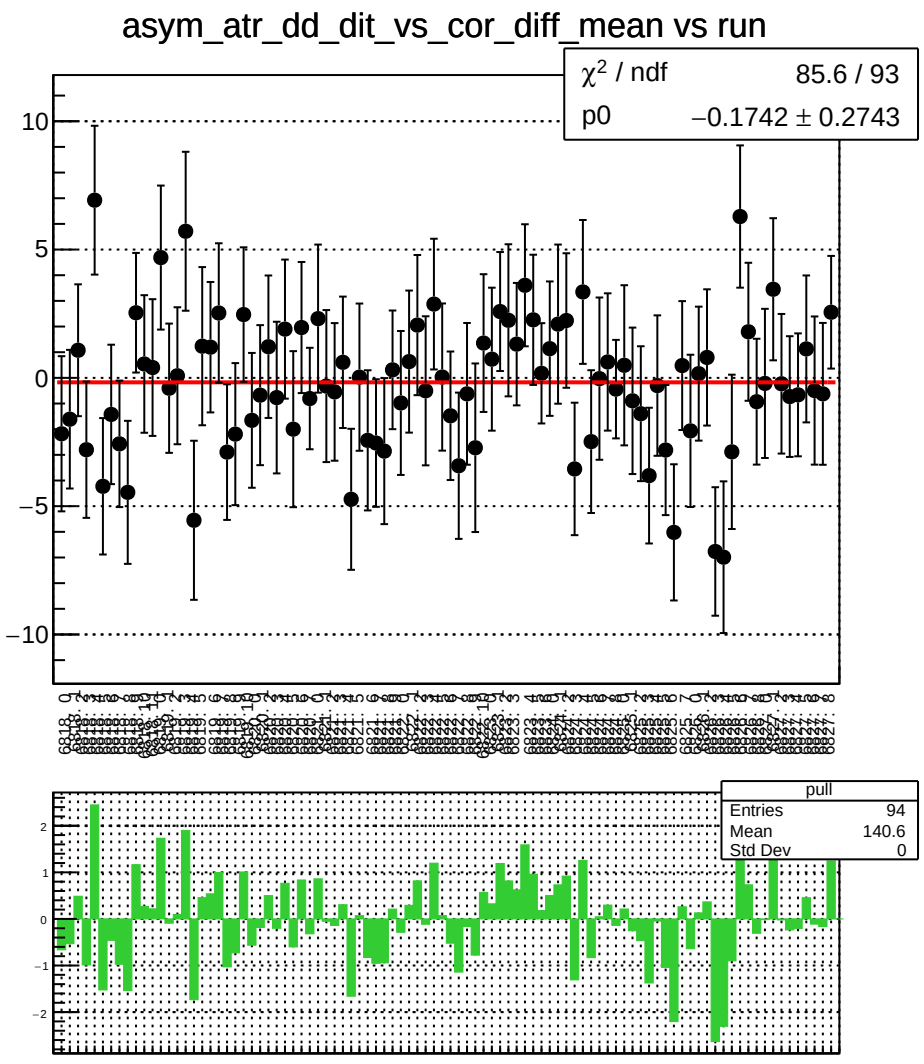

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 82.45 / 93
p0 3959 ± 3918
100
50
0
−50
−100
pull
Entries 94
Mean 8.902
Std Dev 63.58
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

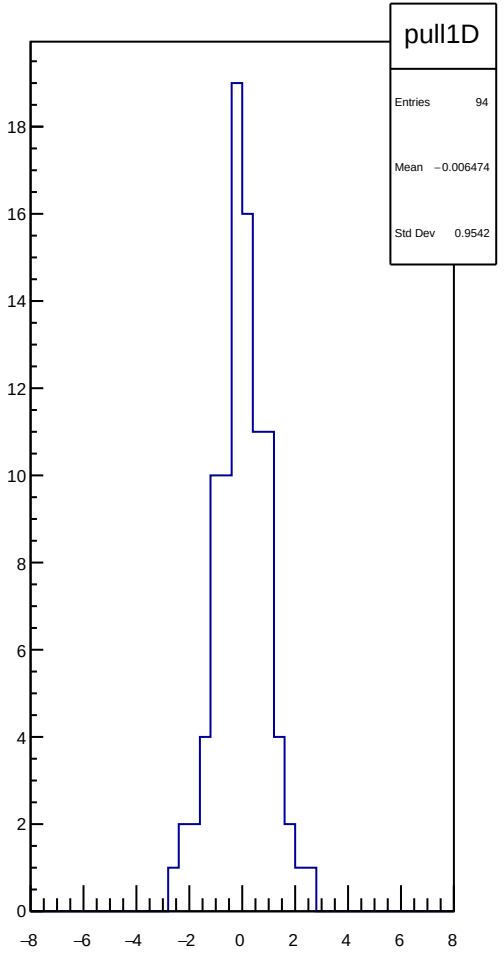

pull1D
Entries 94
Mean 0.009219
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

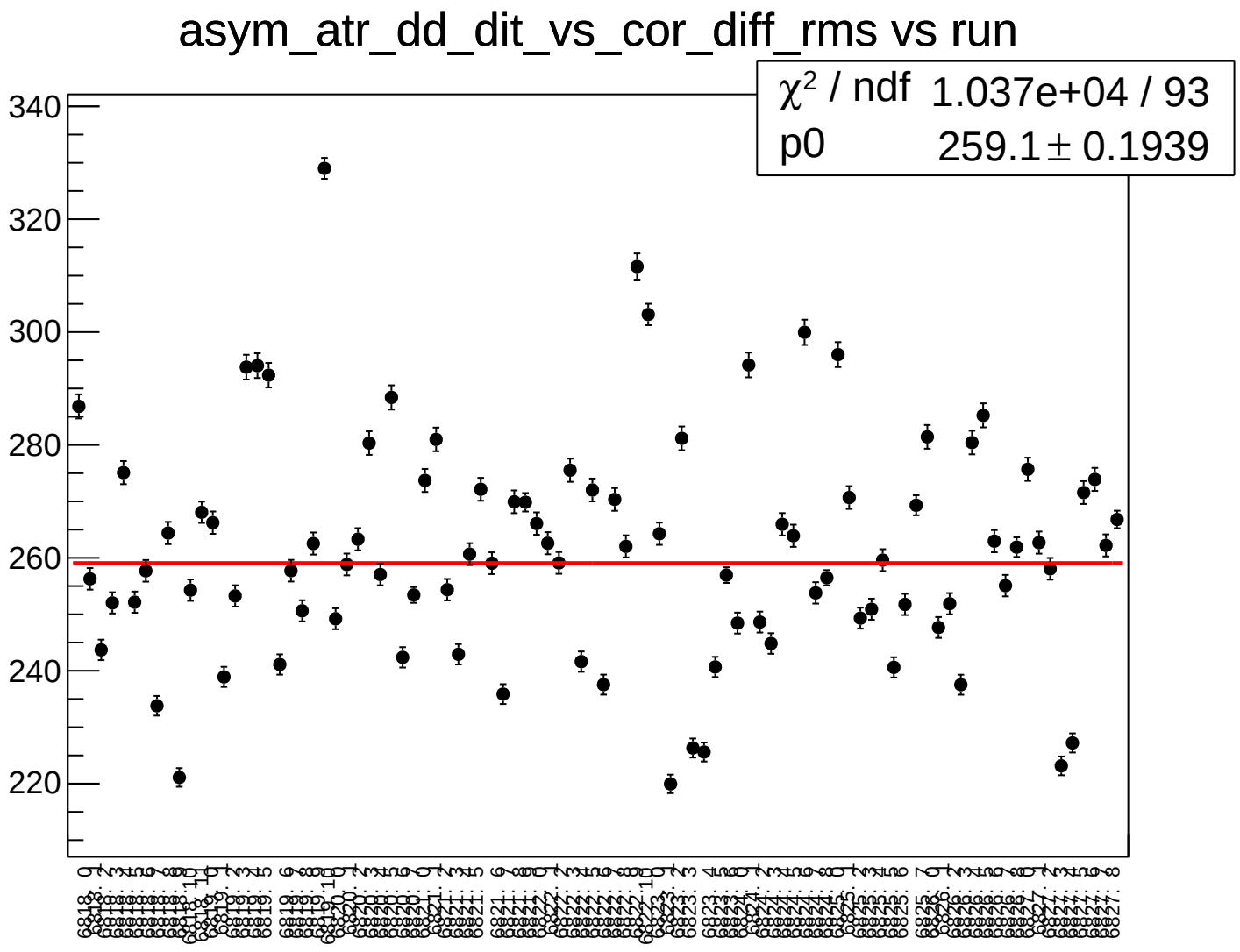

asym_atr_dd_rms vs run
χ² / ndf 2808 / 93
p0 3709 ± 2.771
4400
4200
4000
3800
3600
3400

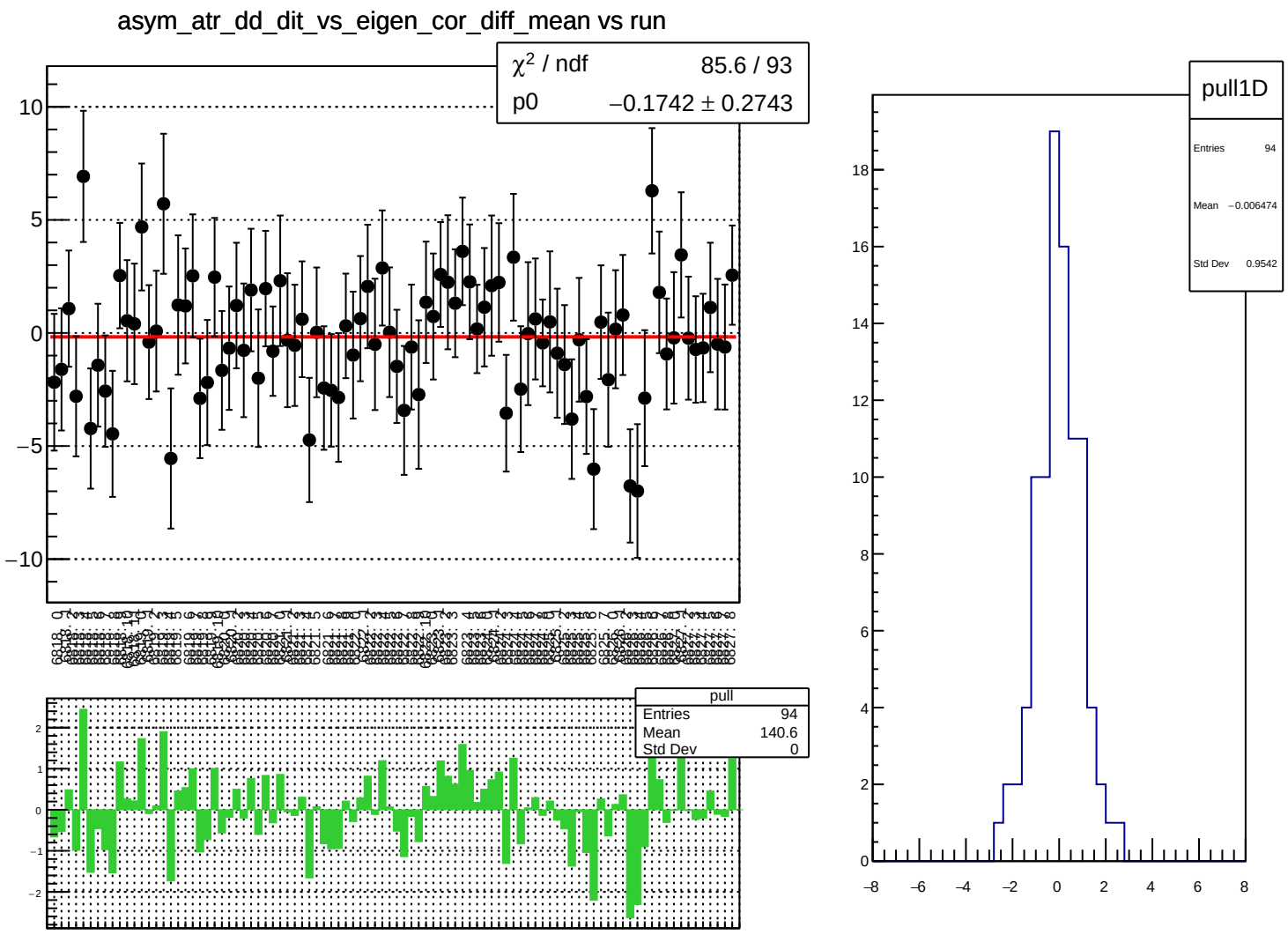

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.04 / 93
p0 4.242e−14 ± 1.143e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 25.33
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1745
Std Dev 0.9849
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

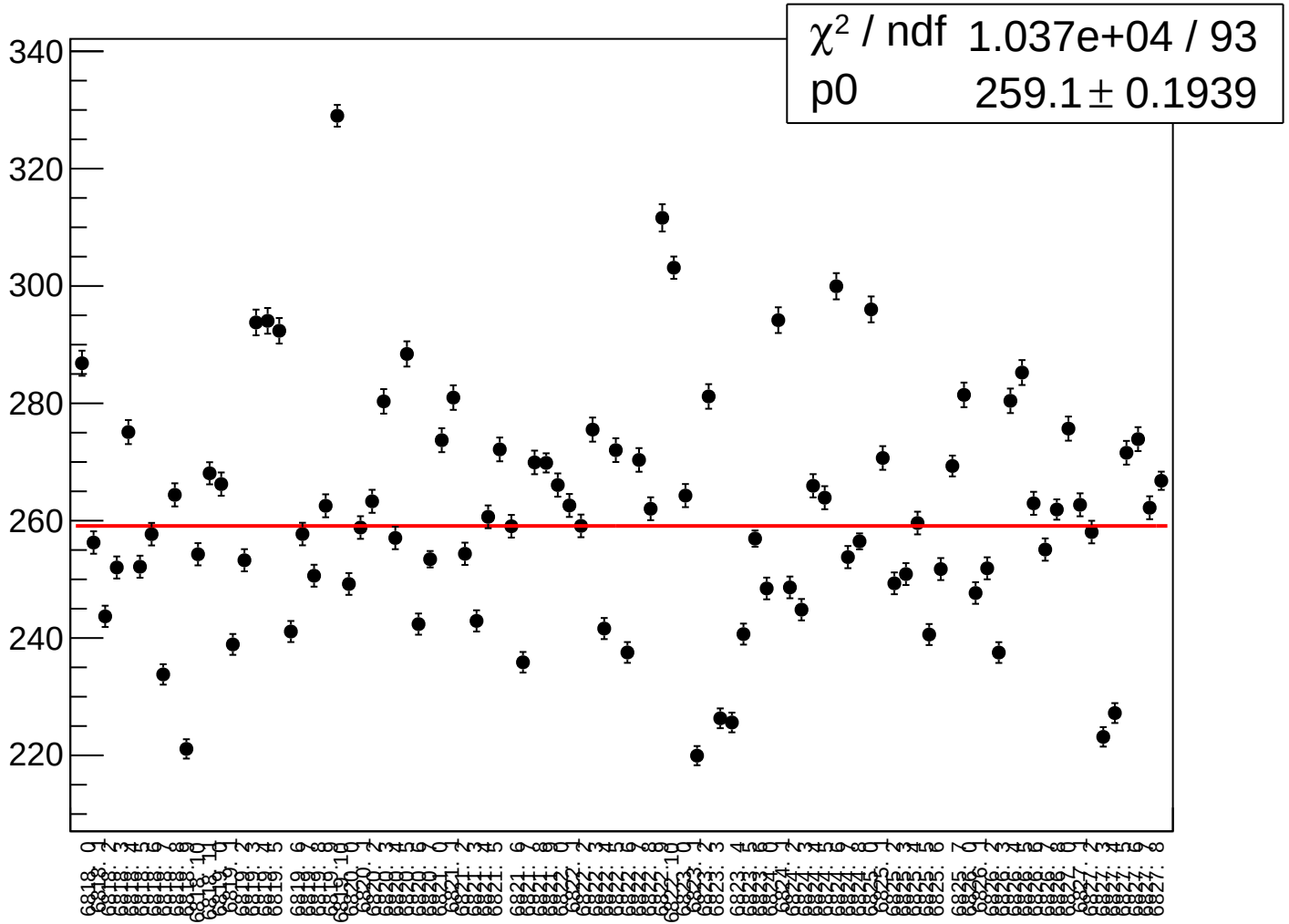

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.154e+06 / 93
p0 6.473e−11 ± 8.085e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

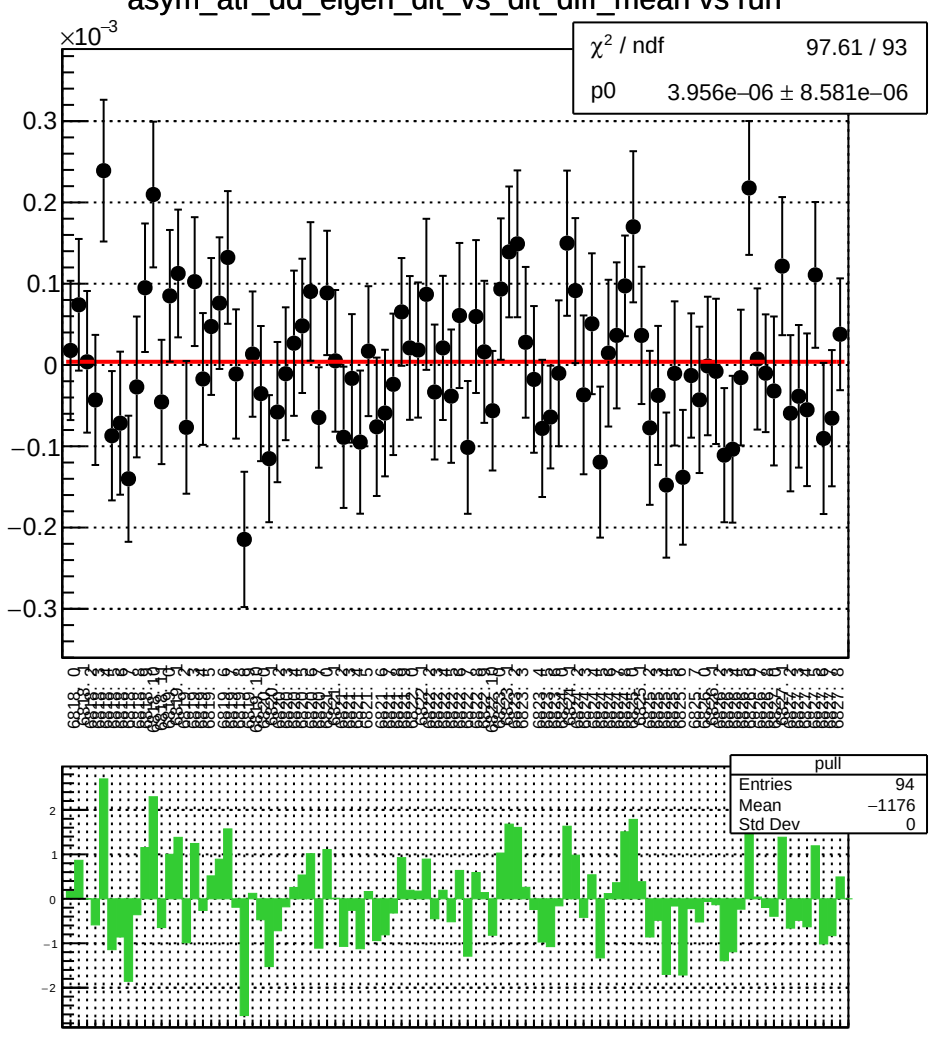

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.6 / 93
p0 −0.1742 ± 0.2743
pull
Entries 94
Mean 140.6
Std Dev 0

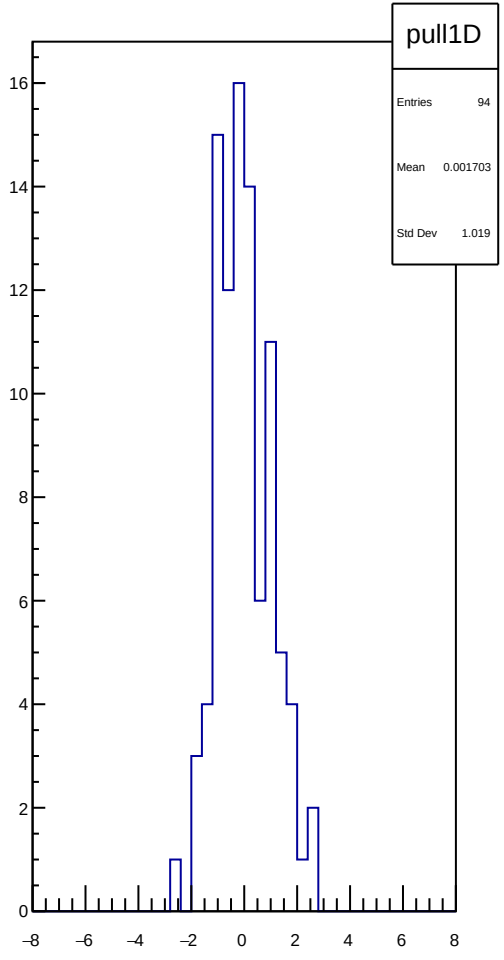

pull1D
Entries 94
Mean −0.006474
Std Dev 0.9542

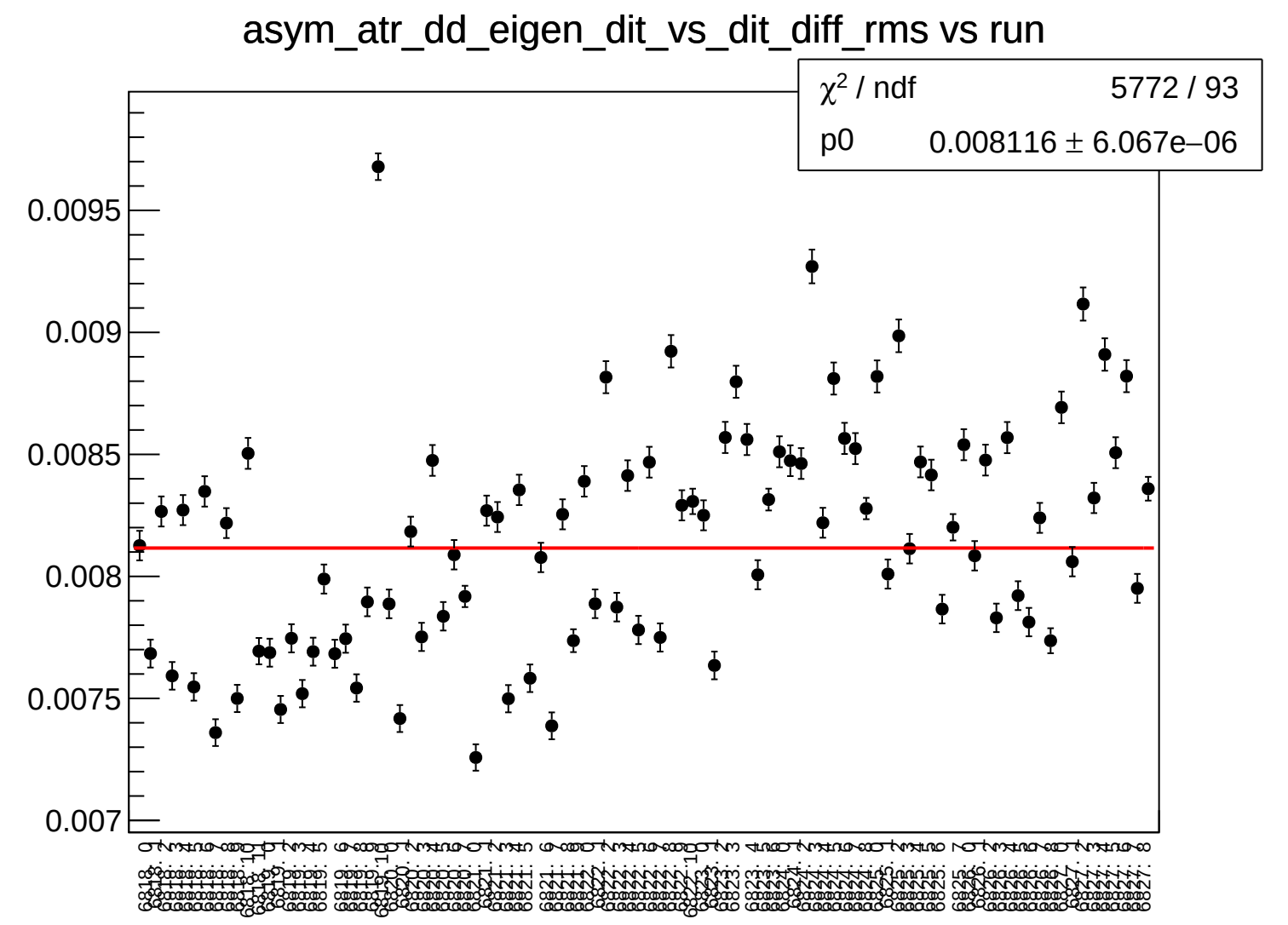

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+04 / 93
p0 259.1 ± 0.1939
340
320
300
280
260
240
220

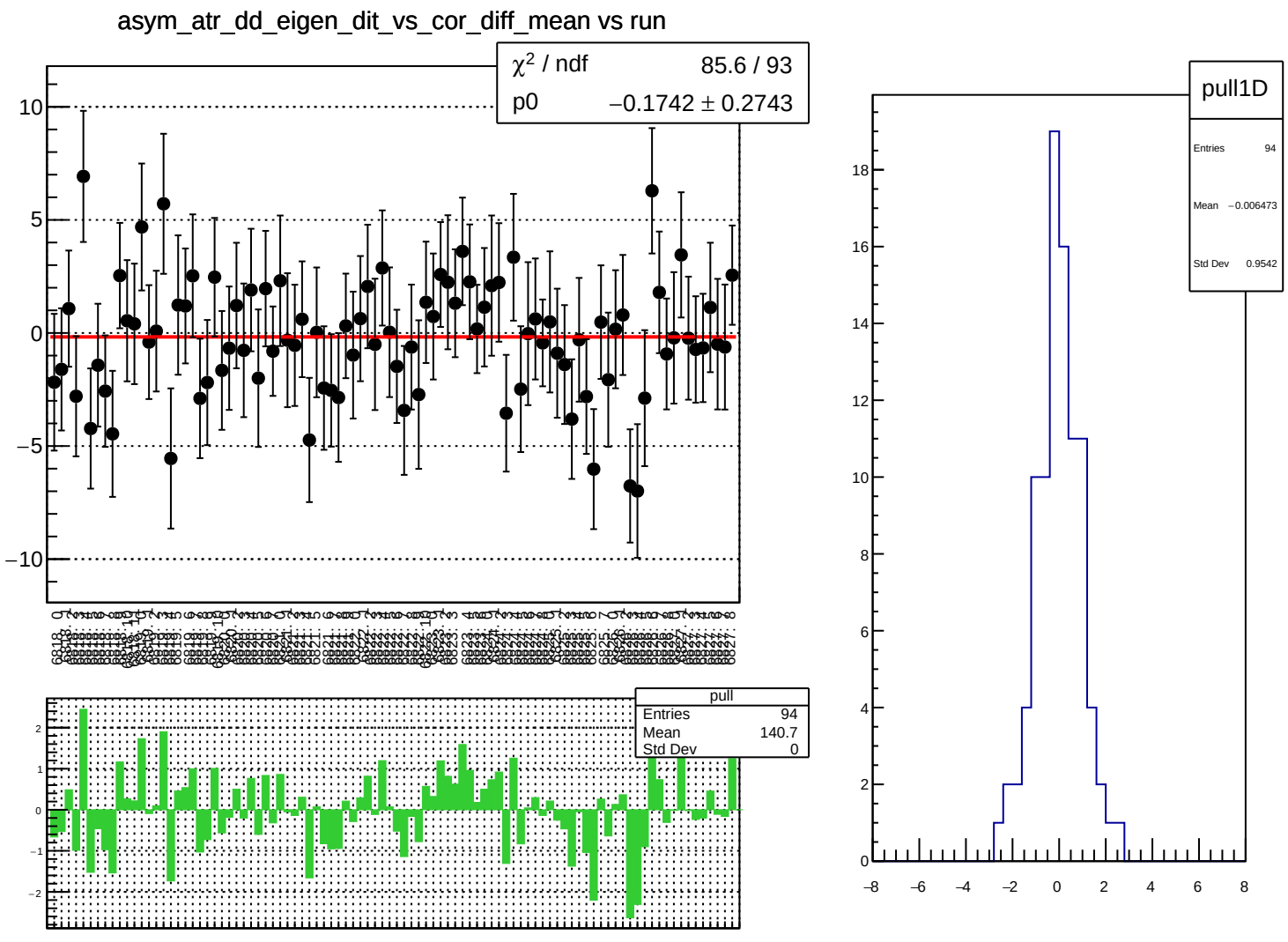

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.6 / 93
p0 −0.1742 ± 0.2743
pull
Entries 94
Mean 140.6
Std Dev 0
pull1D
Entries 94
Mean −0.006474
Std Dev 0.9542

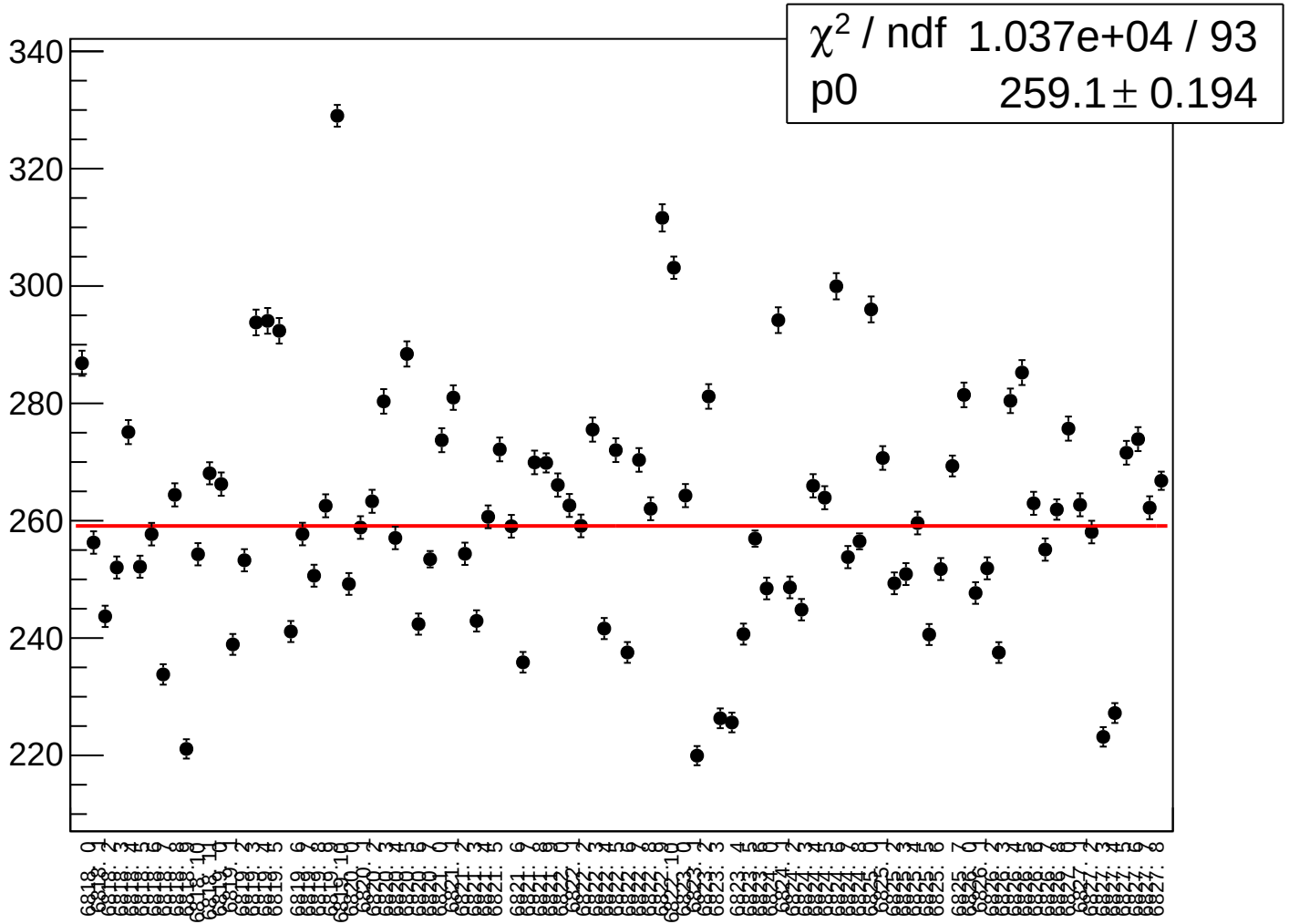

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+04 / 93
p0 259.1 ± 0.1939
340
320
300
280
260
240
220

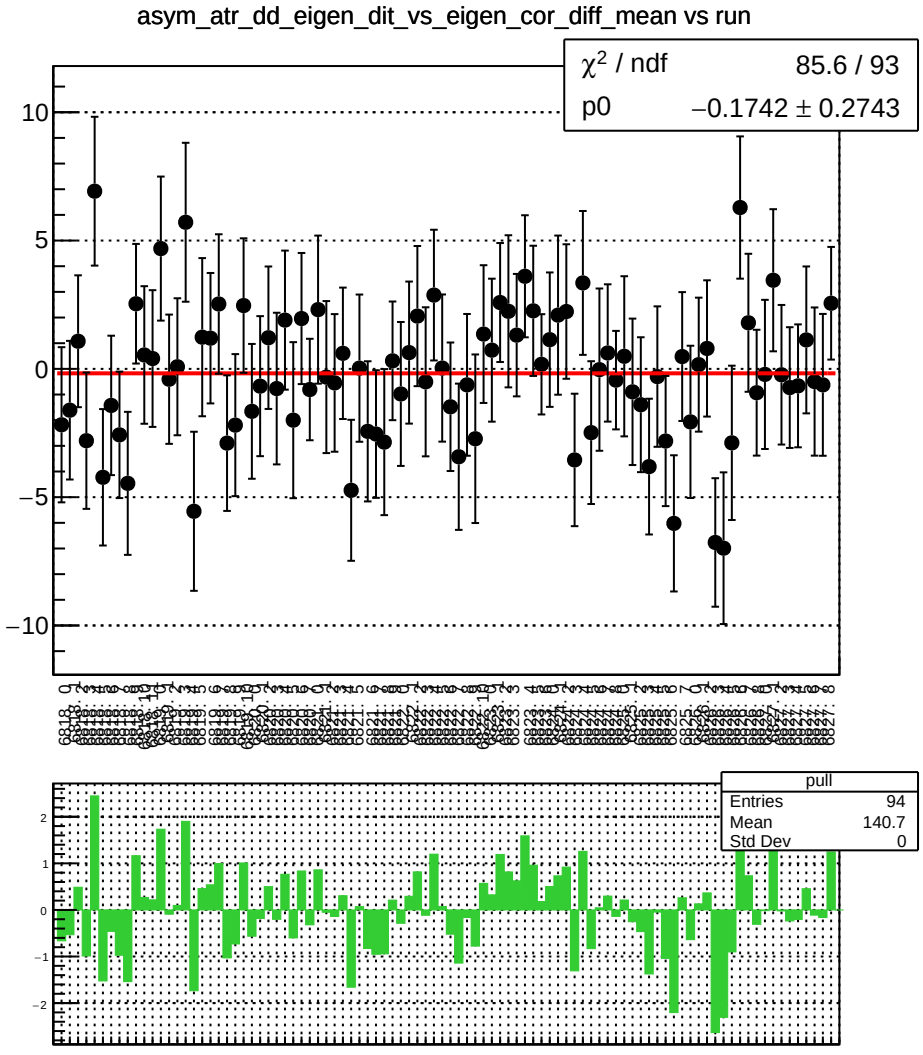

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.61 / 93
p0 3.956e−06 ± 8.581e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean −1176
Std Dev 0
2
1
0
−1
−2

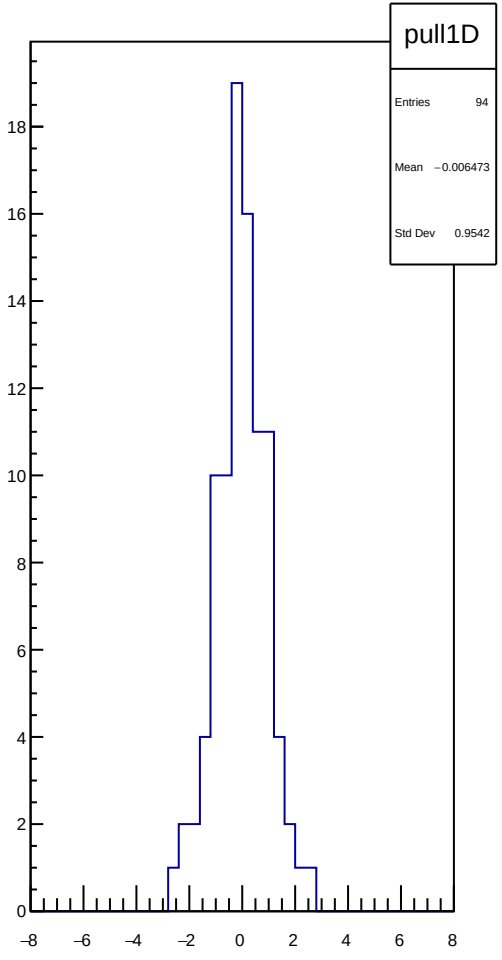

pull1D
Entries 94
Mean 0.001703
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

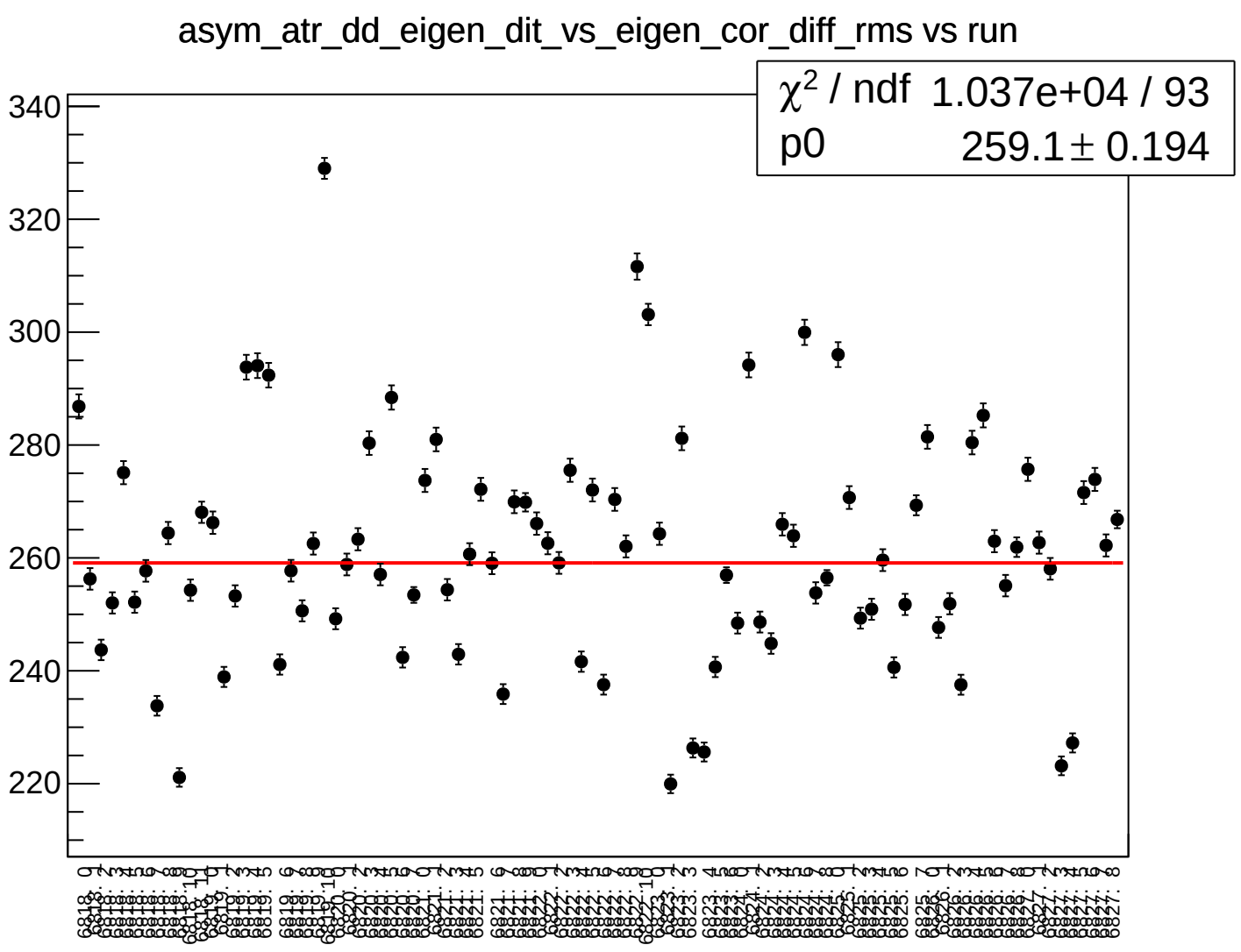

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5772 / 93
p0 0.008116 ± 6.067e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

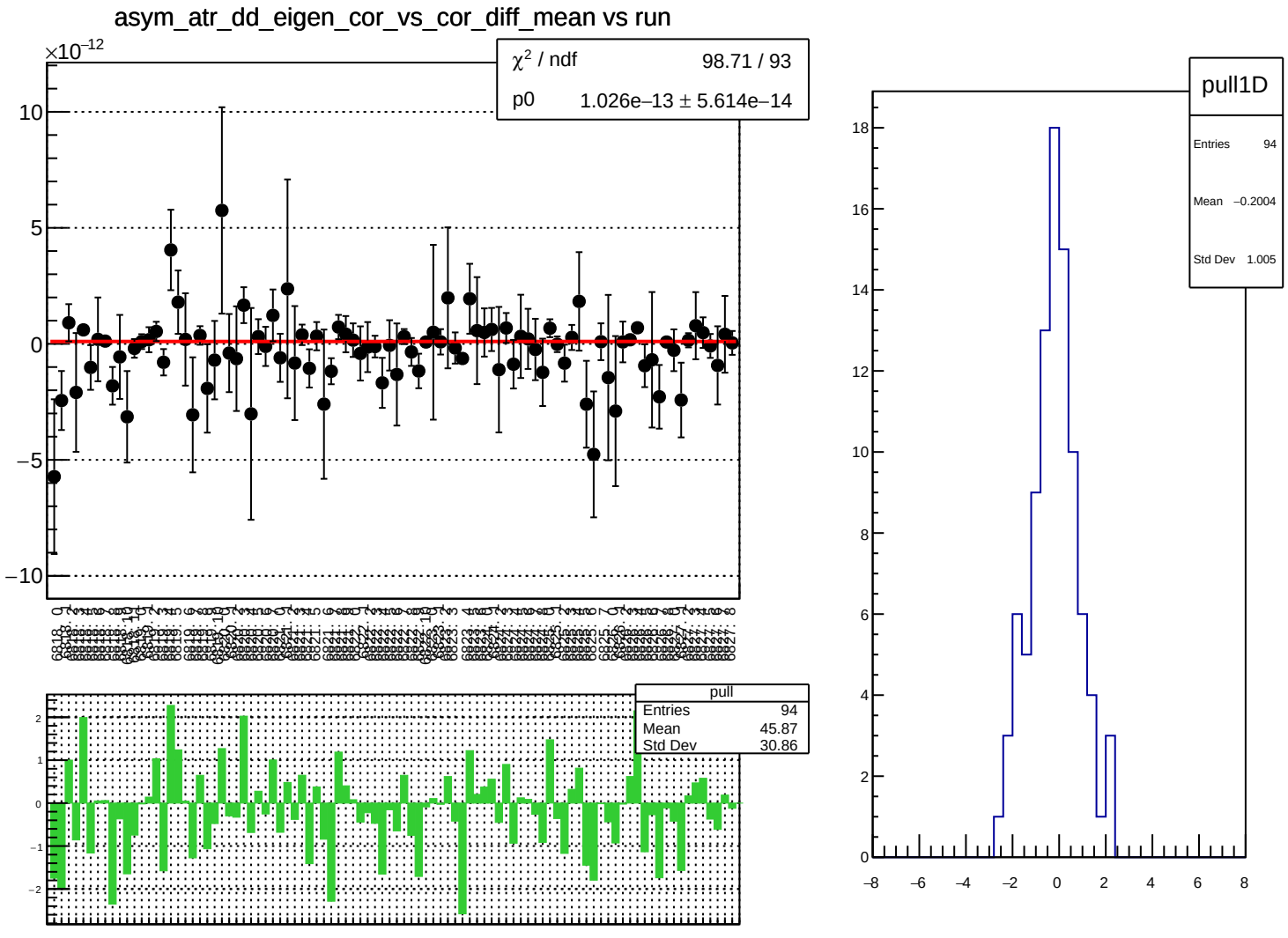

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.6 / 93
p0 −0.1742 ± 0.2743
pull
Entries 94
Mean 140.7
Std Dev 0
pull1D
Entries 94
Mean −0.006473
Std Dev 0.9542

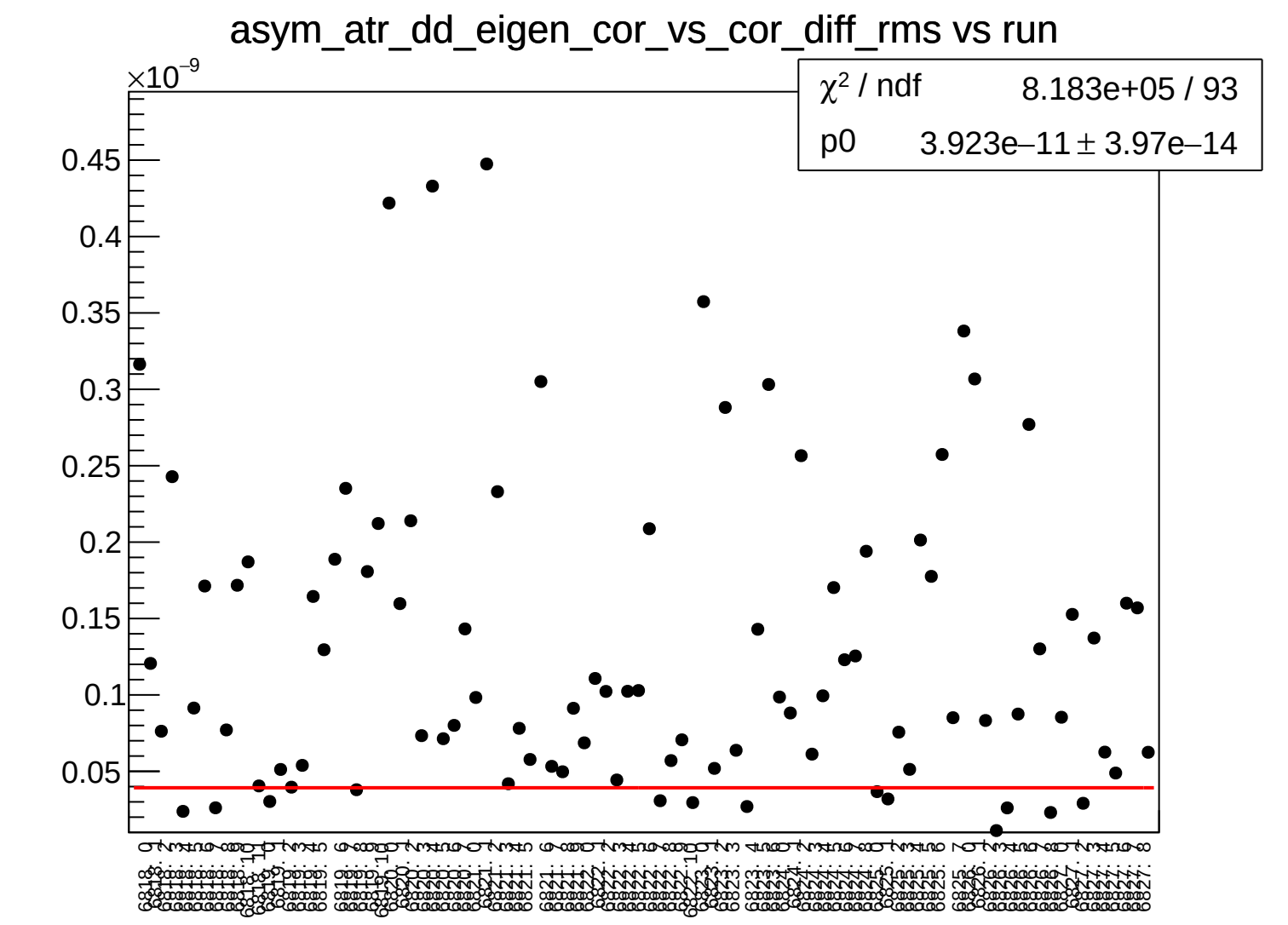

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.037e+04 / 93
p0 259.1 ± 0.194
340
320
300
280
260
240
220

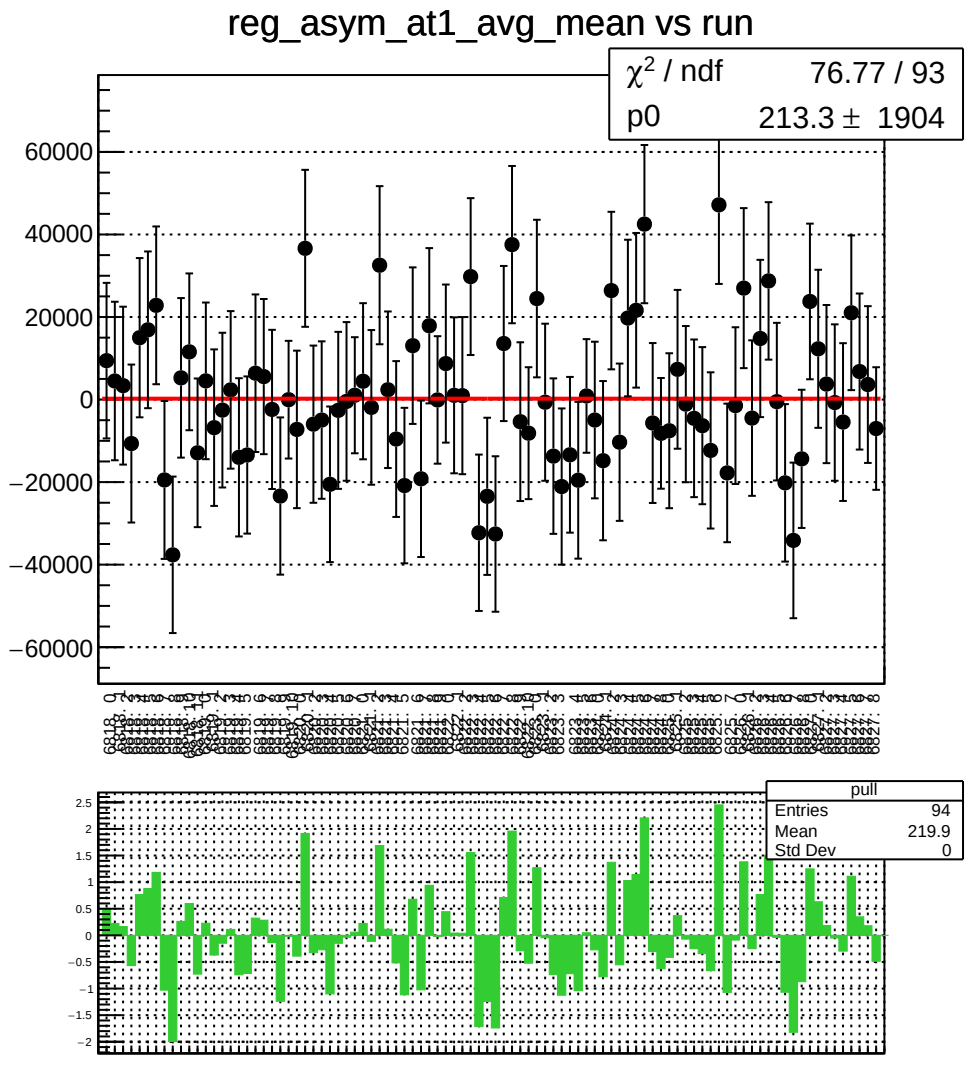

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.6 / 93
p0 −0.1742 ± 0.2743
pull
Entries 94
Mean 140.7
Std Dev 0

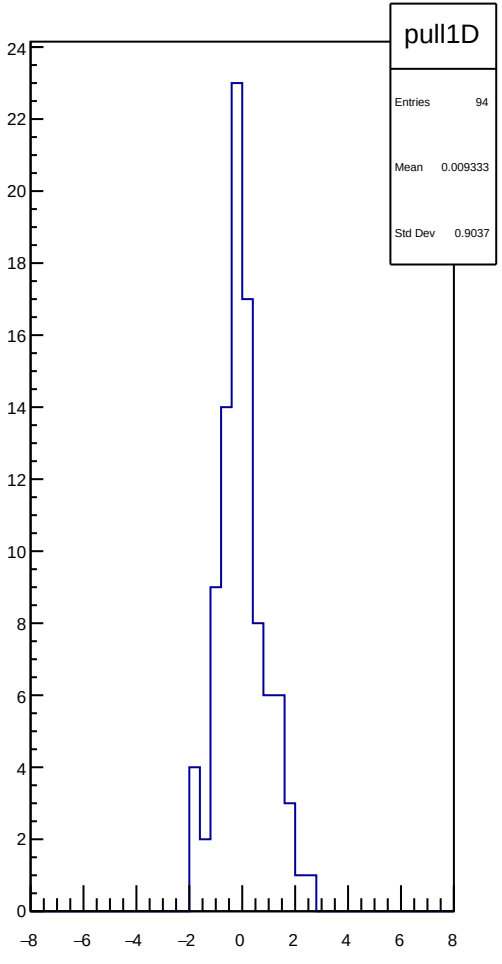

pull1D
Entries 94
Mean −0.006473
Std Dev 0.9542

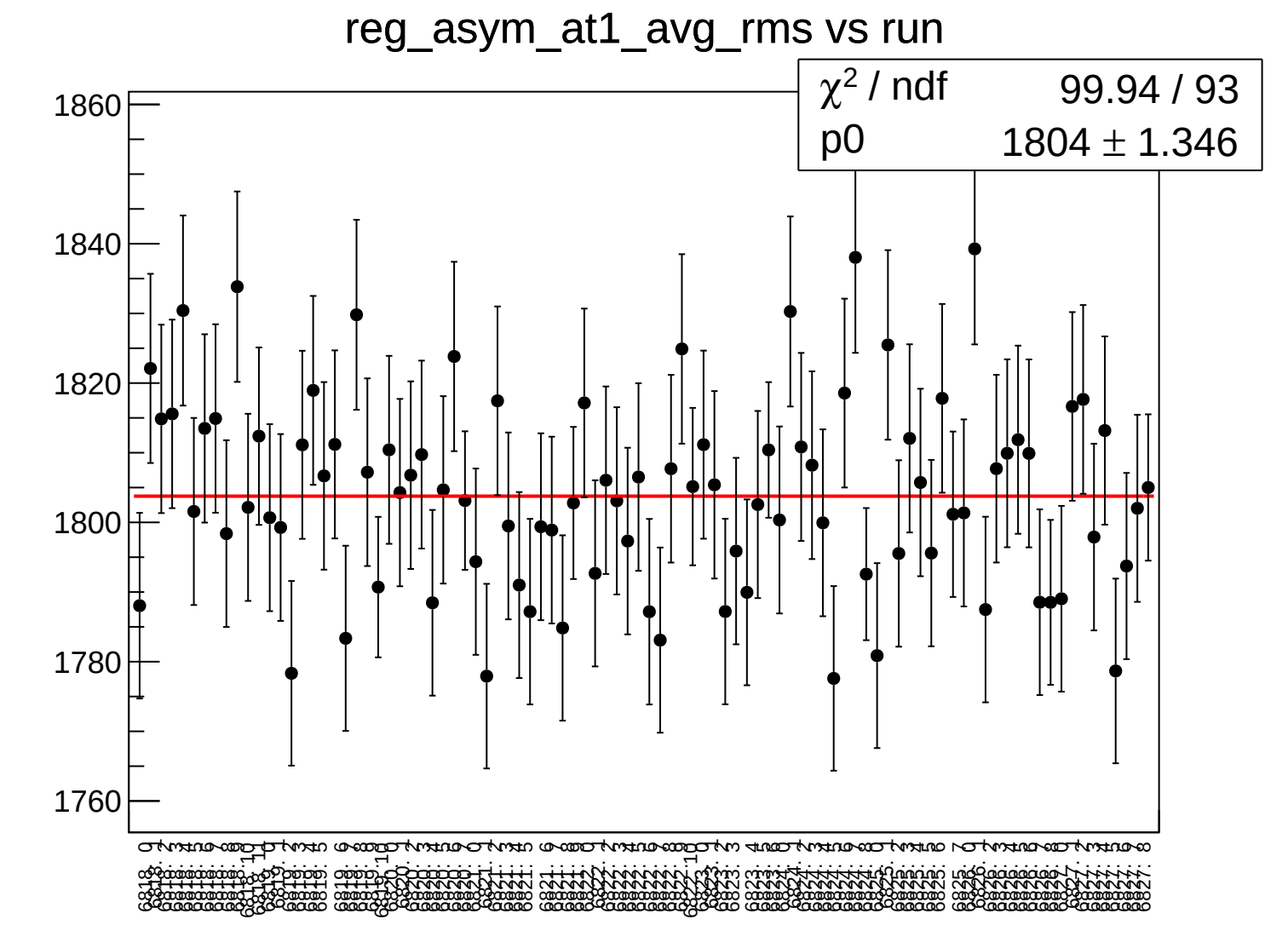

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.037e+04 / 93
p0 259.1 ± 0.194
340
320
300
280
260
240
220

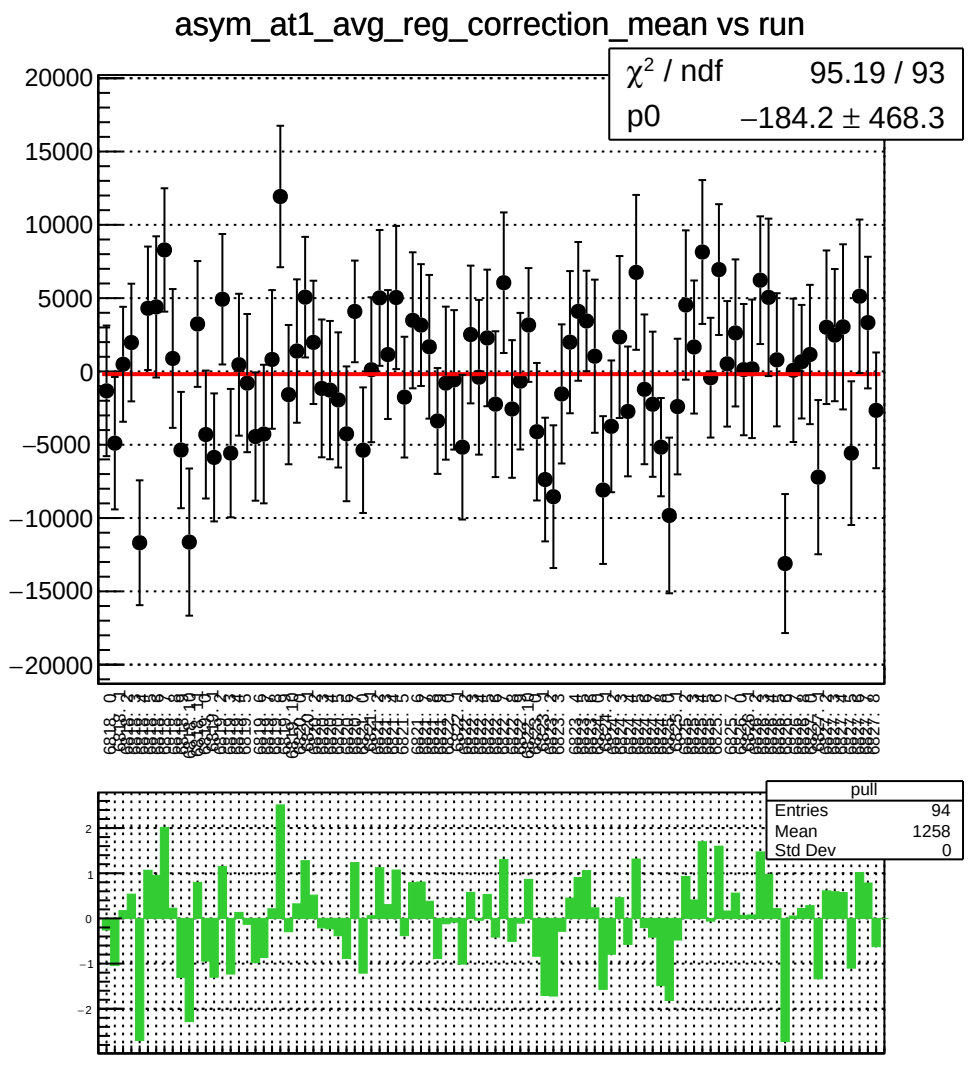

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.71 / 93
p0 1.026e−13 ± 5.614e−14
10
5
0
−5
−10
pull
Entries 94
Mean 45.87
Std Dev 30.86
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.2004
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

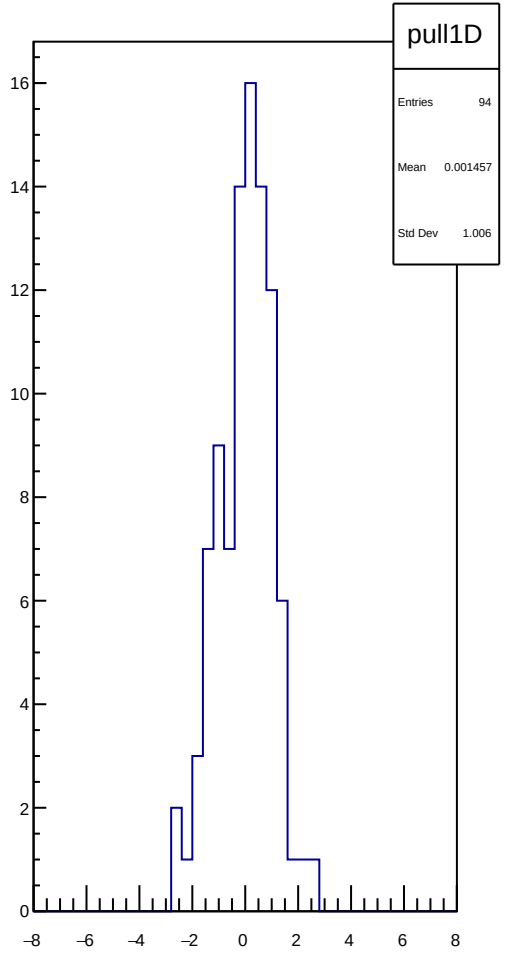

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.183e+05 / 93
p0 3.923e−11 ± 3.97e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

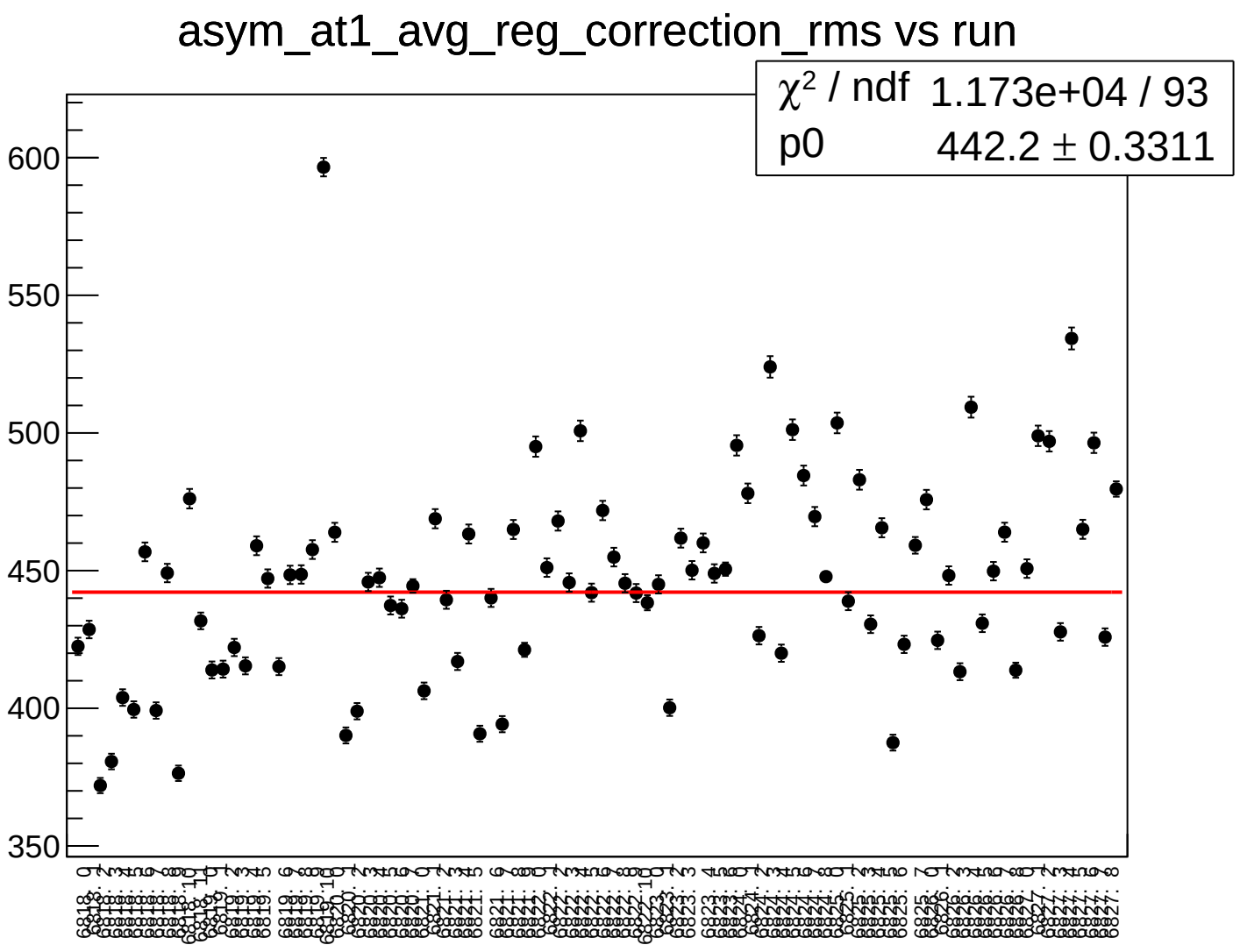

reg_asym_at1_avg_mean vs run
χ² / ndf 76.77 / 93
p0 213.3 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 219.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

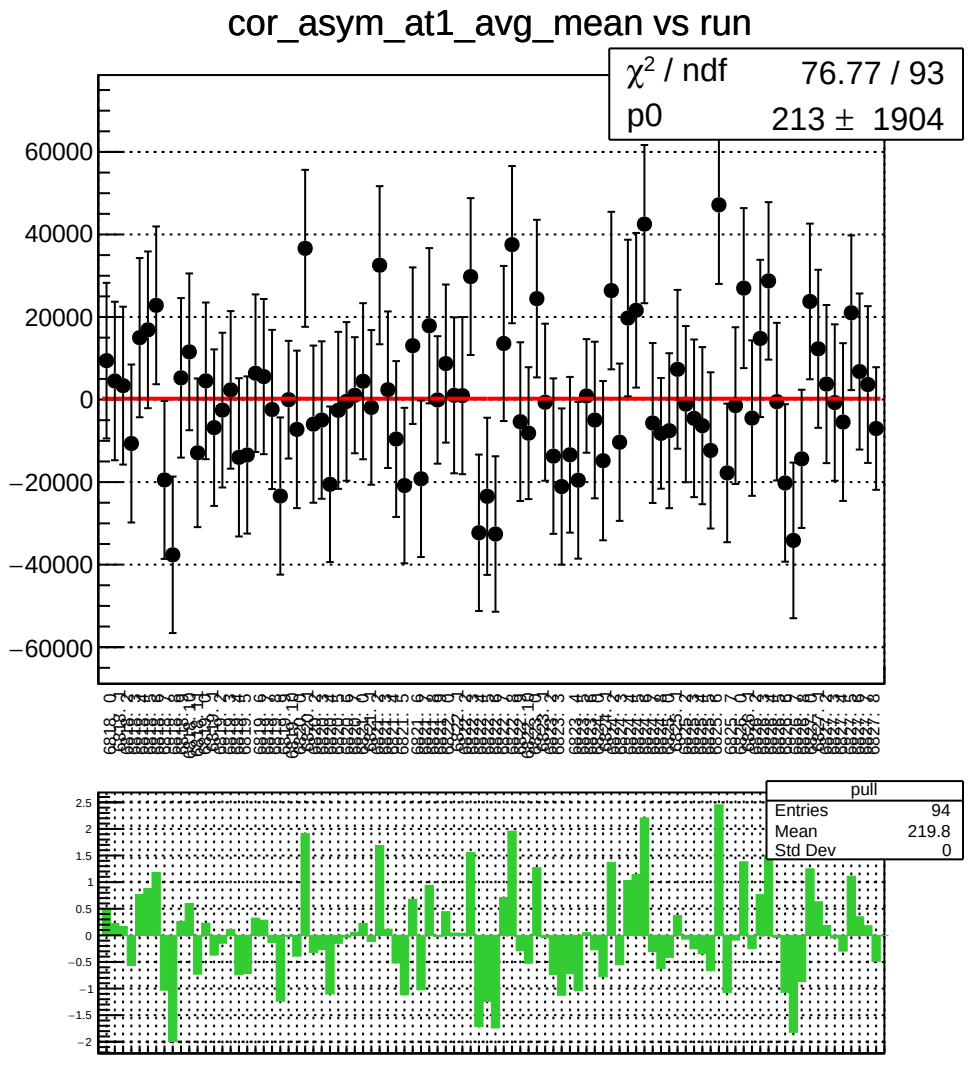

pull1D
Entries 94
Mean 0.009333
Std Dev 0.9037
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

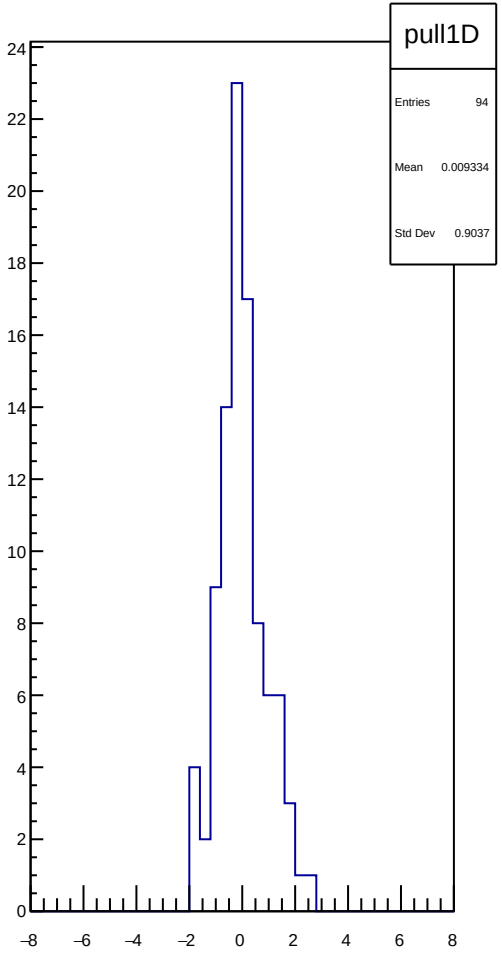

reg_asym_at1_avg_rms vs run
χ² / ndf 99.94 / 93
p0 1804 ± 1.346
1860
1840
1820
1800
1780
1760

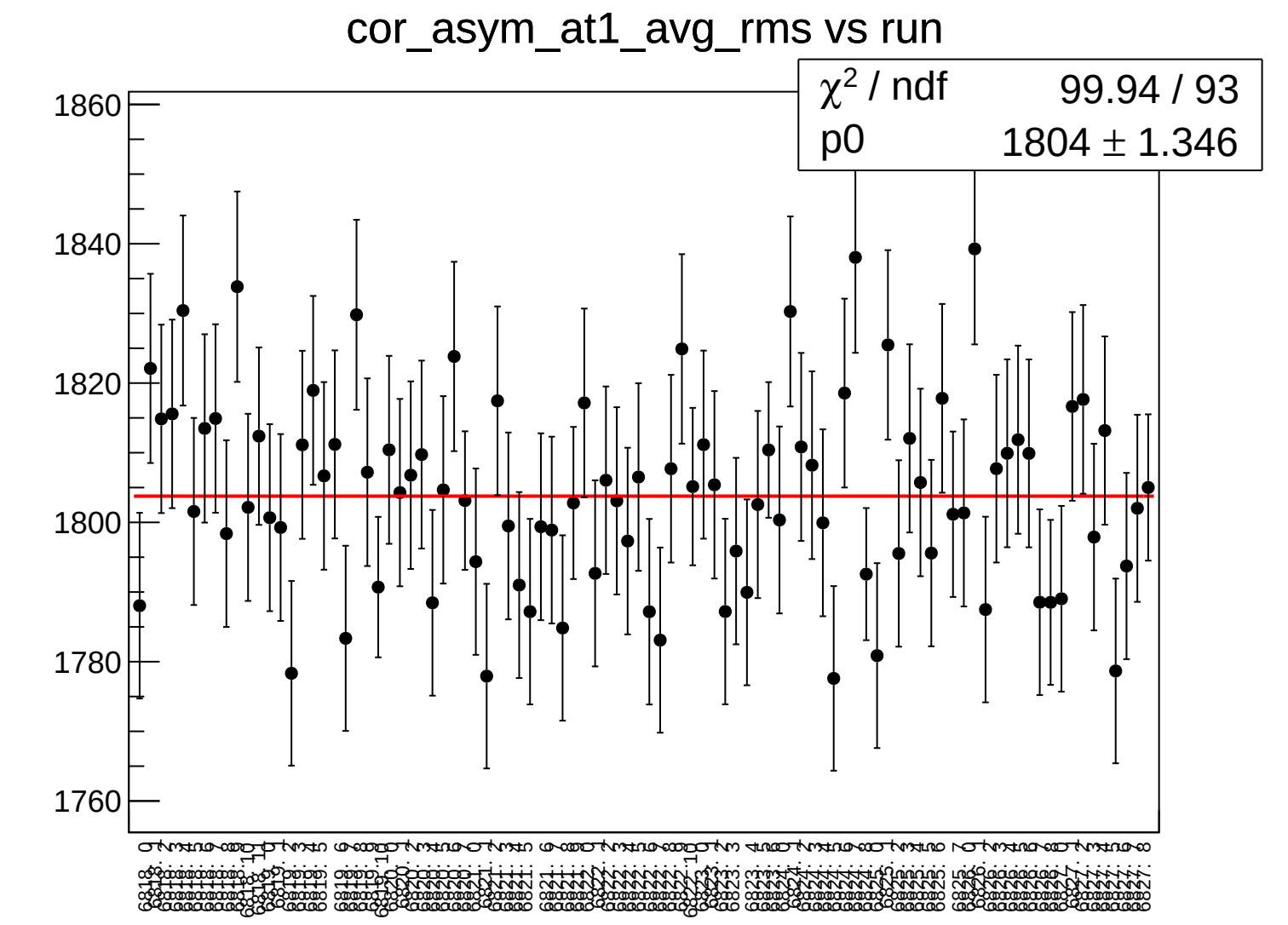

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 95.19 / 93
p0 −184.2 ± 468.3
pull
Entries 94
Mean 1258
Std Dev 0

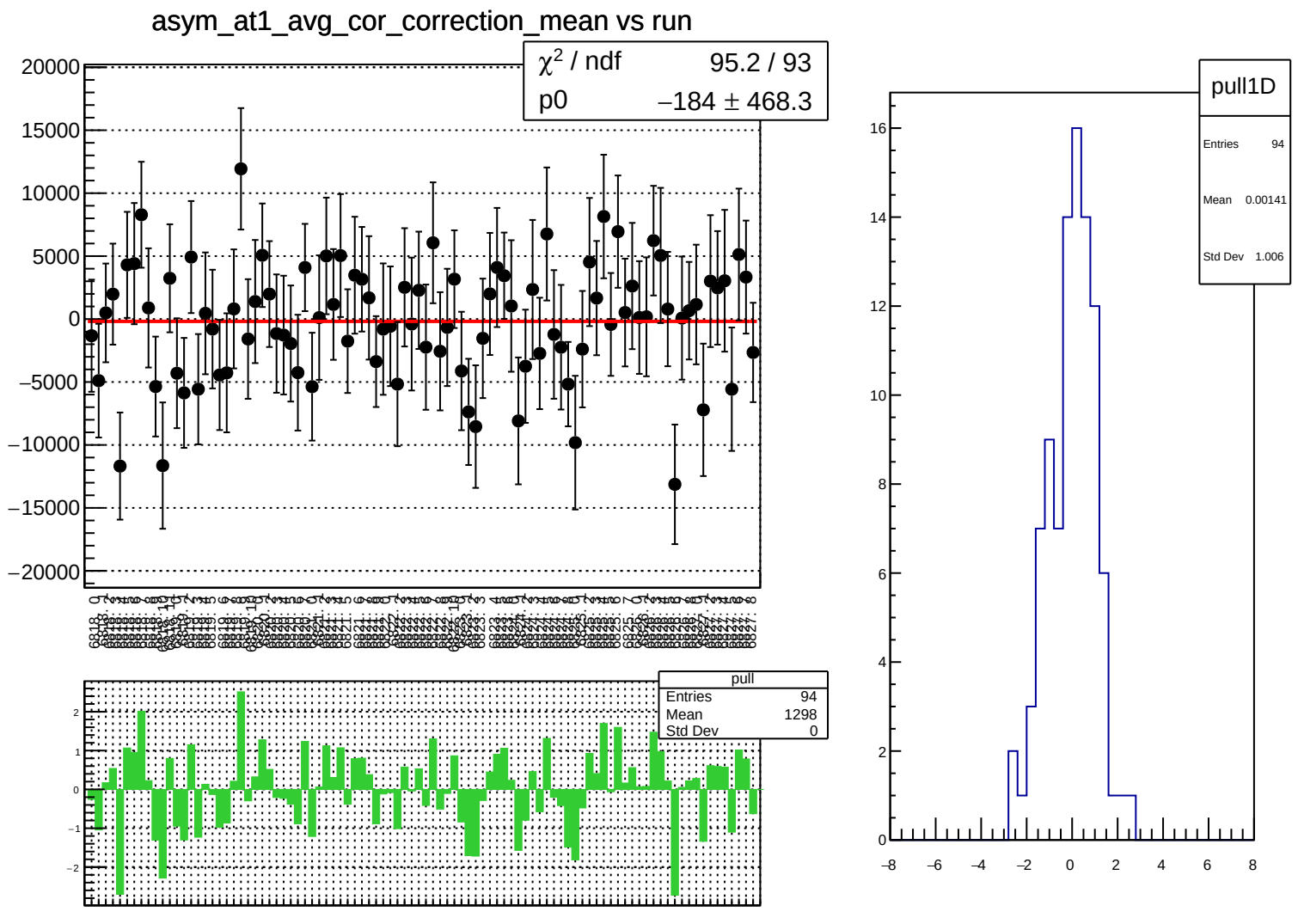

pull1D
Entries 94
Mean 0.001457
Std Dev 1.006

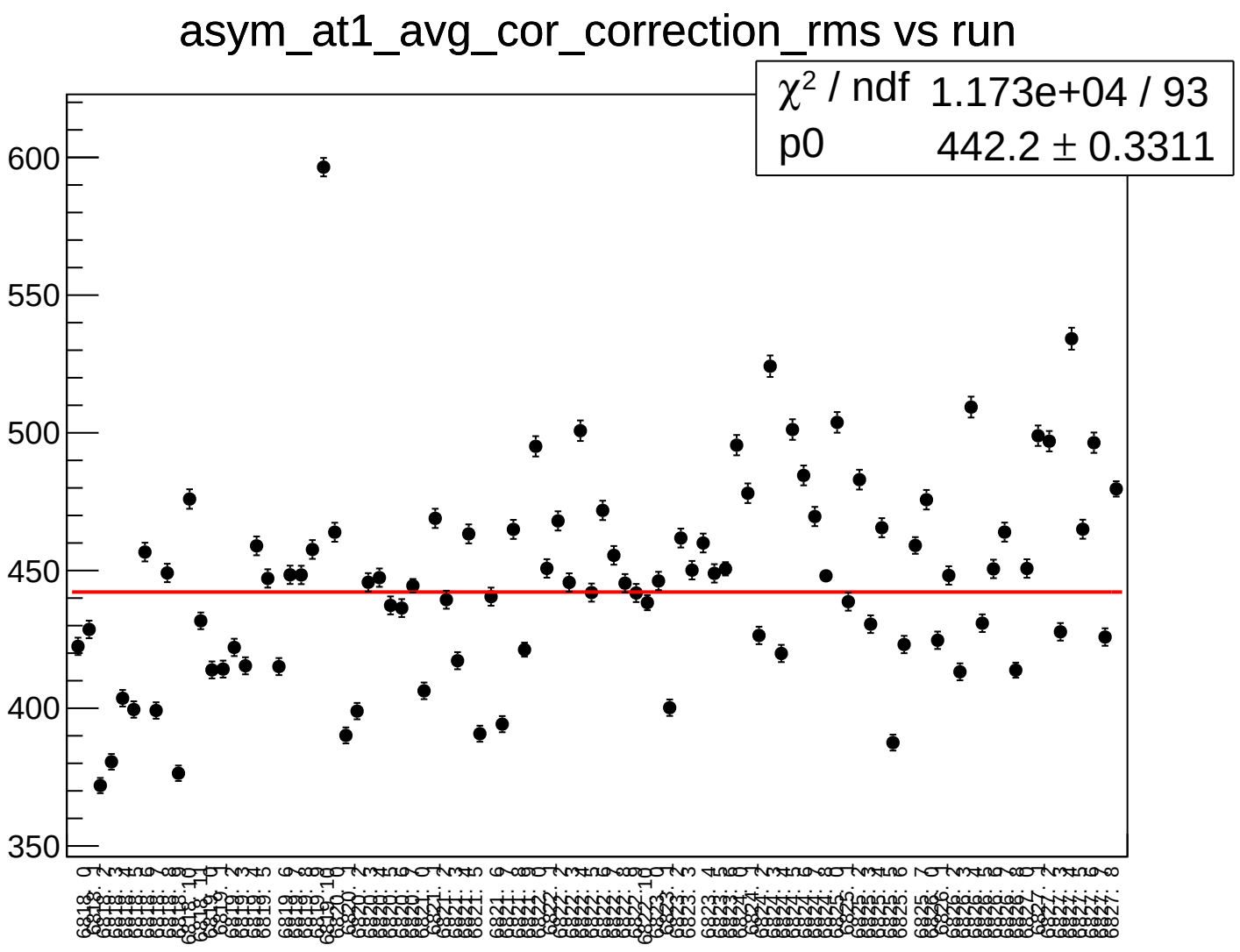

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.173e+04 / 93
p0 442.2 ± 0.3311
600
550
500
450
400
350

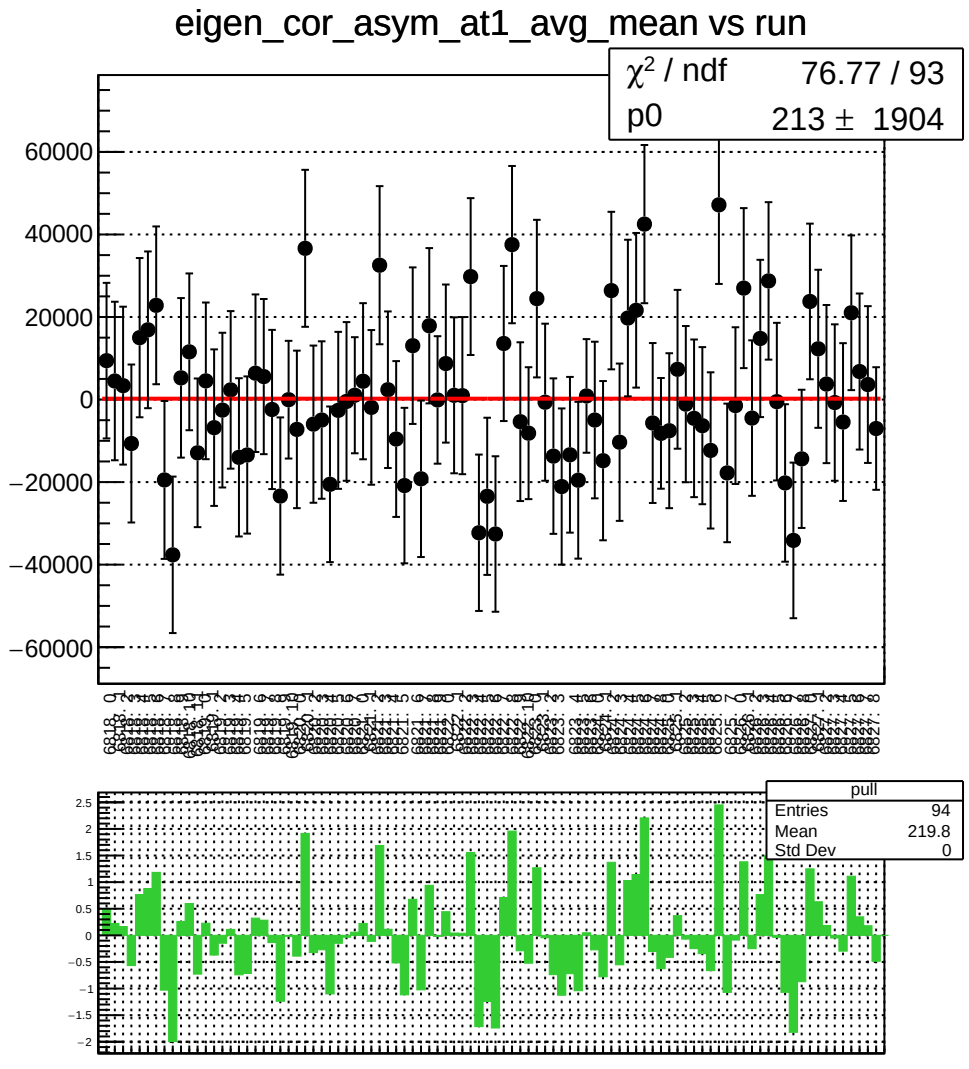

cor_asym_at1_avg_mean vs run
χ² / ndf 76.77 / 93
p0 213 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 219.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

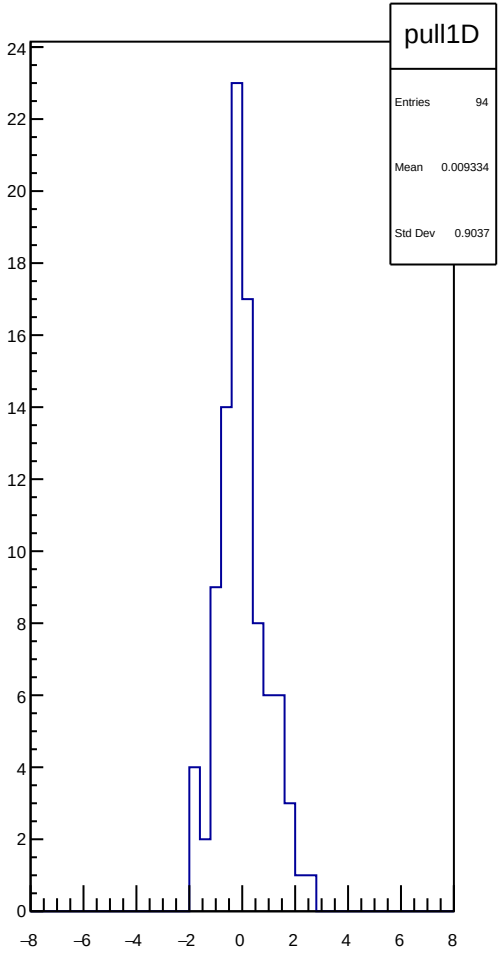

pull1D
Entries 94
Mean 0.009334
Std Dev 0.9037
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

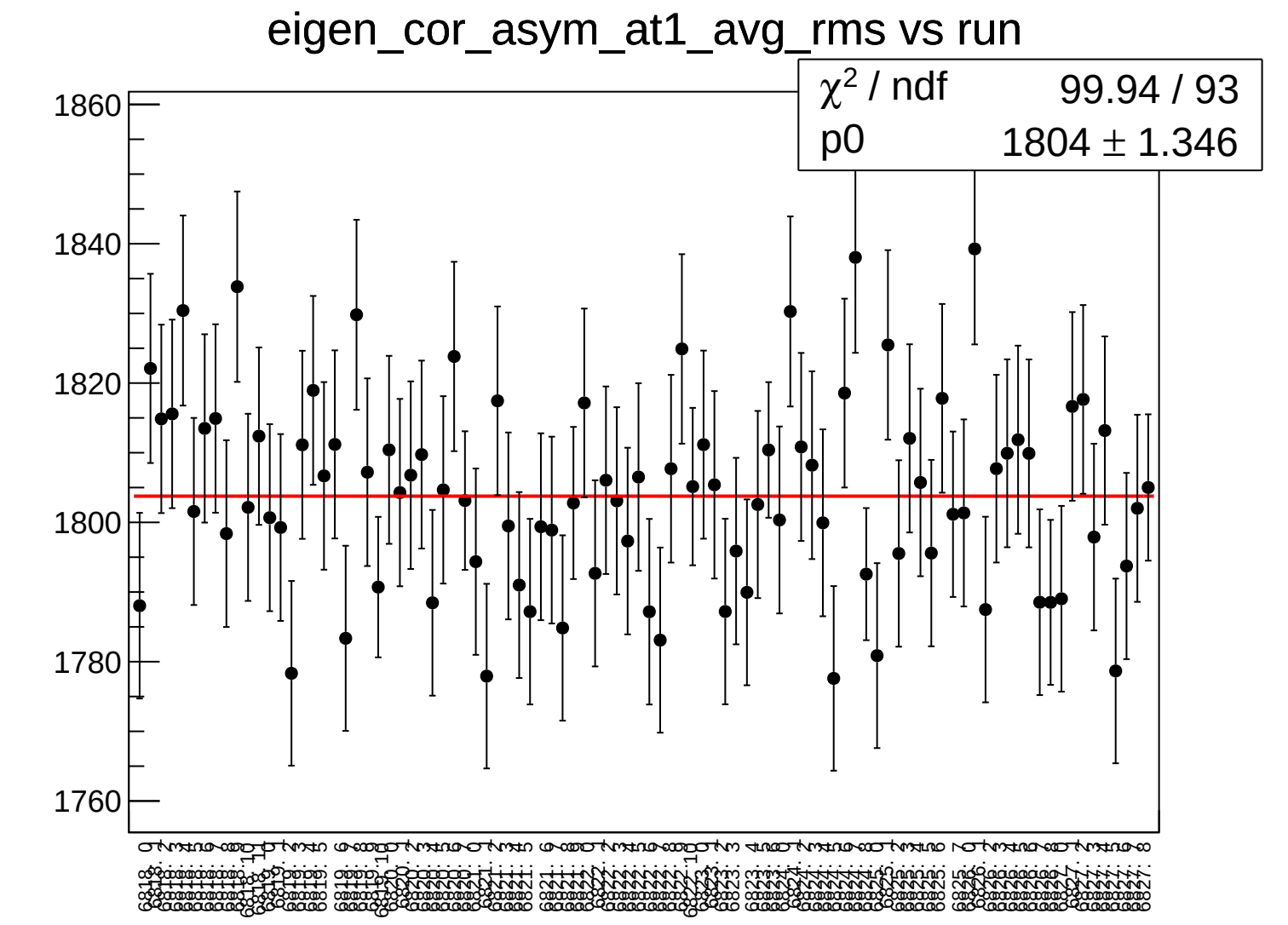

cor_asym_at1_avg_rms vs run
χ² / ndf 99.94 / 93
p0 1804 ± 1.346
1860
1840
1820
1800
1780
1760

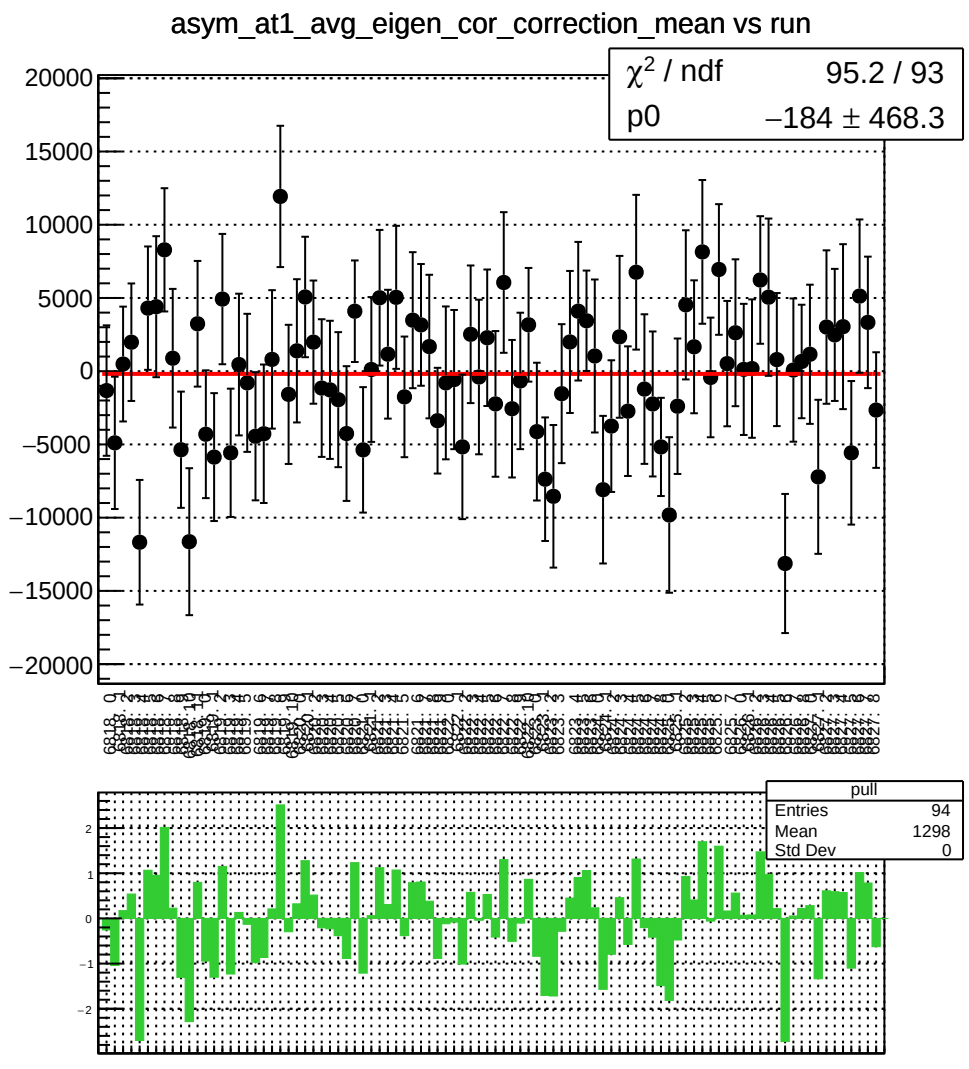

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 95.2 / 93
p0 −184 ± 468.3
pull
Entries 94
Mean 1298
Std Dev 0
pull1D
Entries 94
Mean 0.00141
Std Dev 1.006

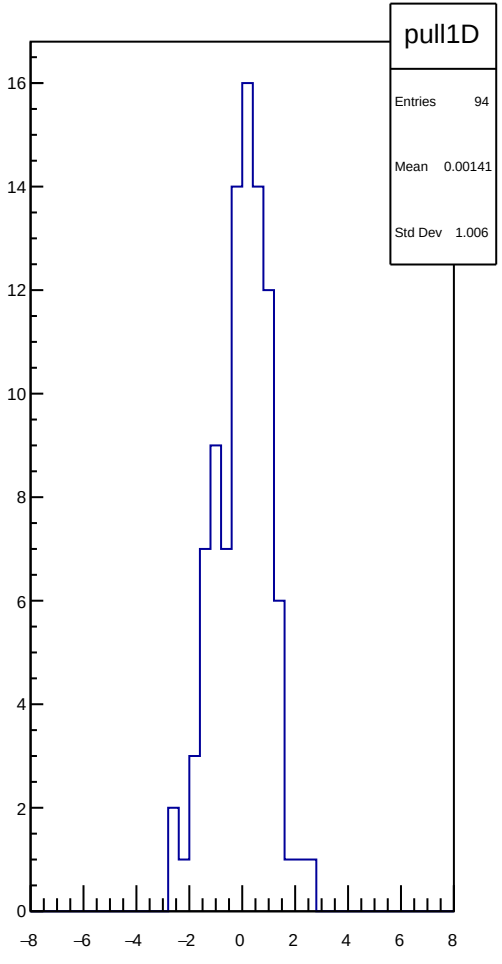

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.173e+04 / 93
p0 442.2 ± 0.3311
600
550
500
450
400
350

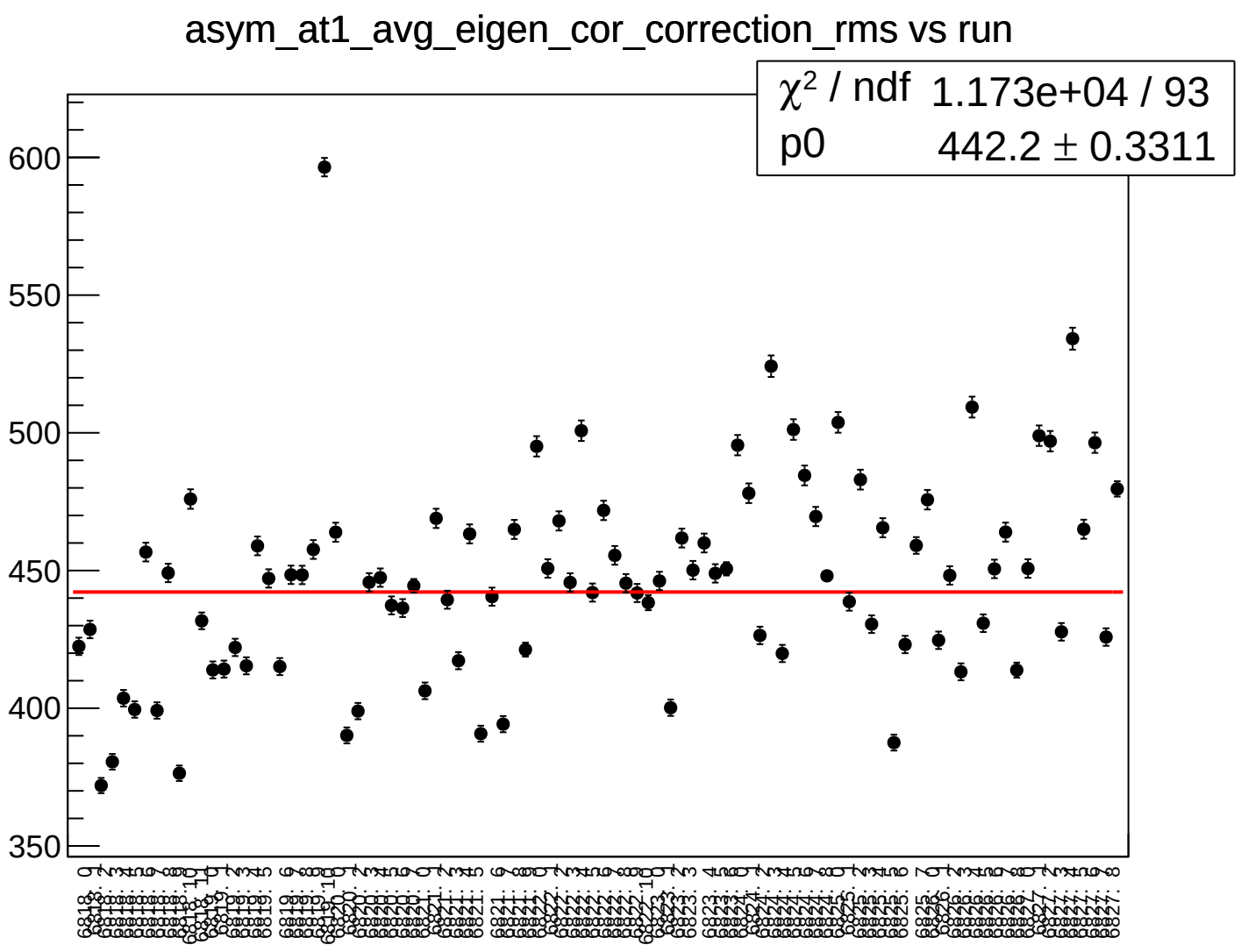

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 76.77 / 93
p0 213 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 219.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

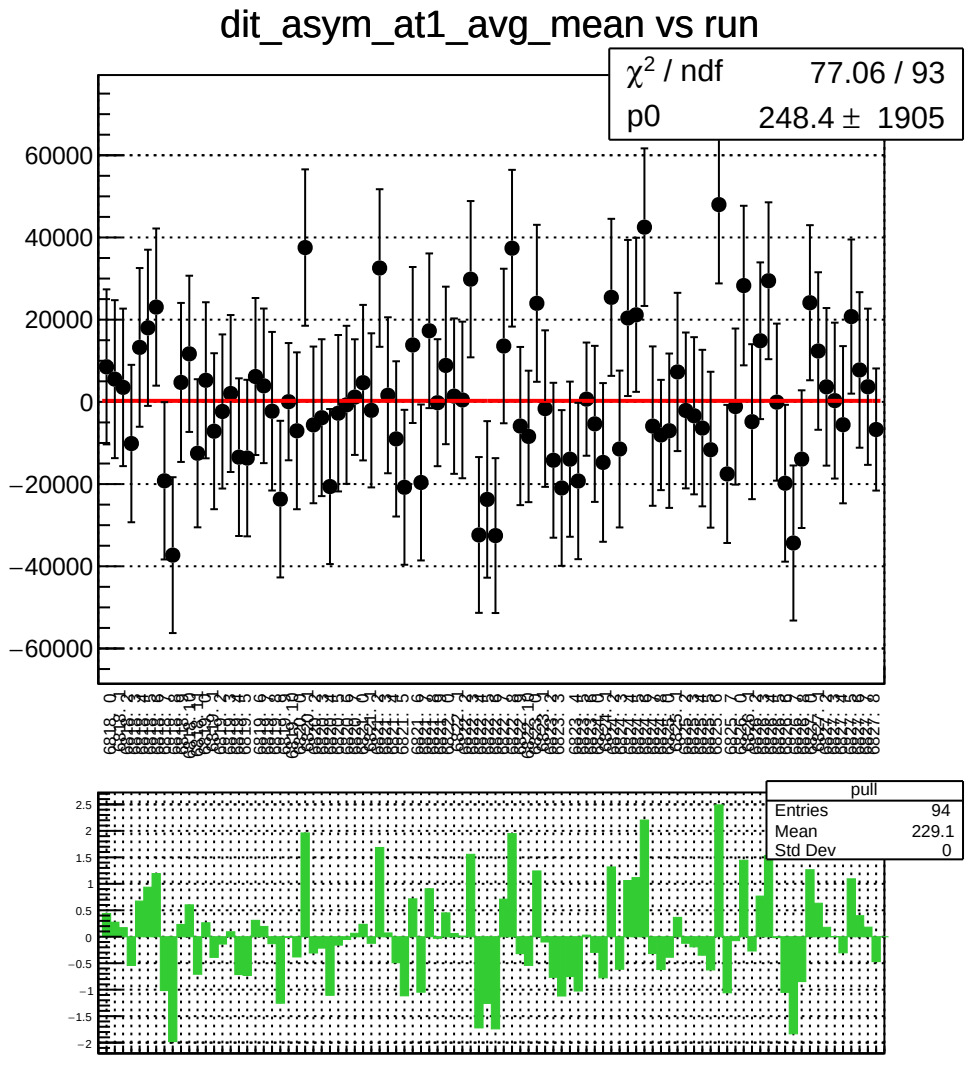

pull1D
Entries 94
Mean 0.009334
Std Dev 0.9037
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

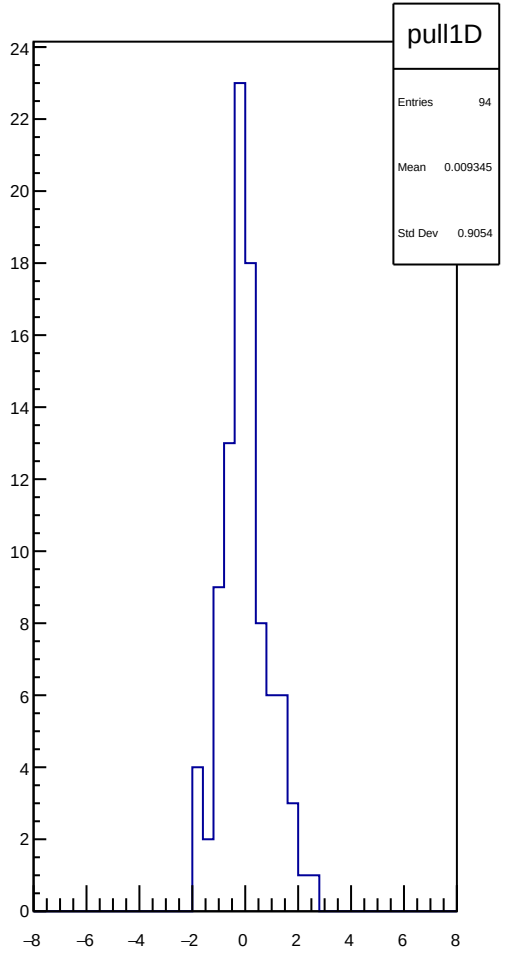

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 99.94 / 93
p0 1804 ± 1.346
1860
1840
1820
1800
1780
1760

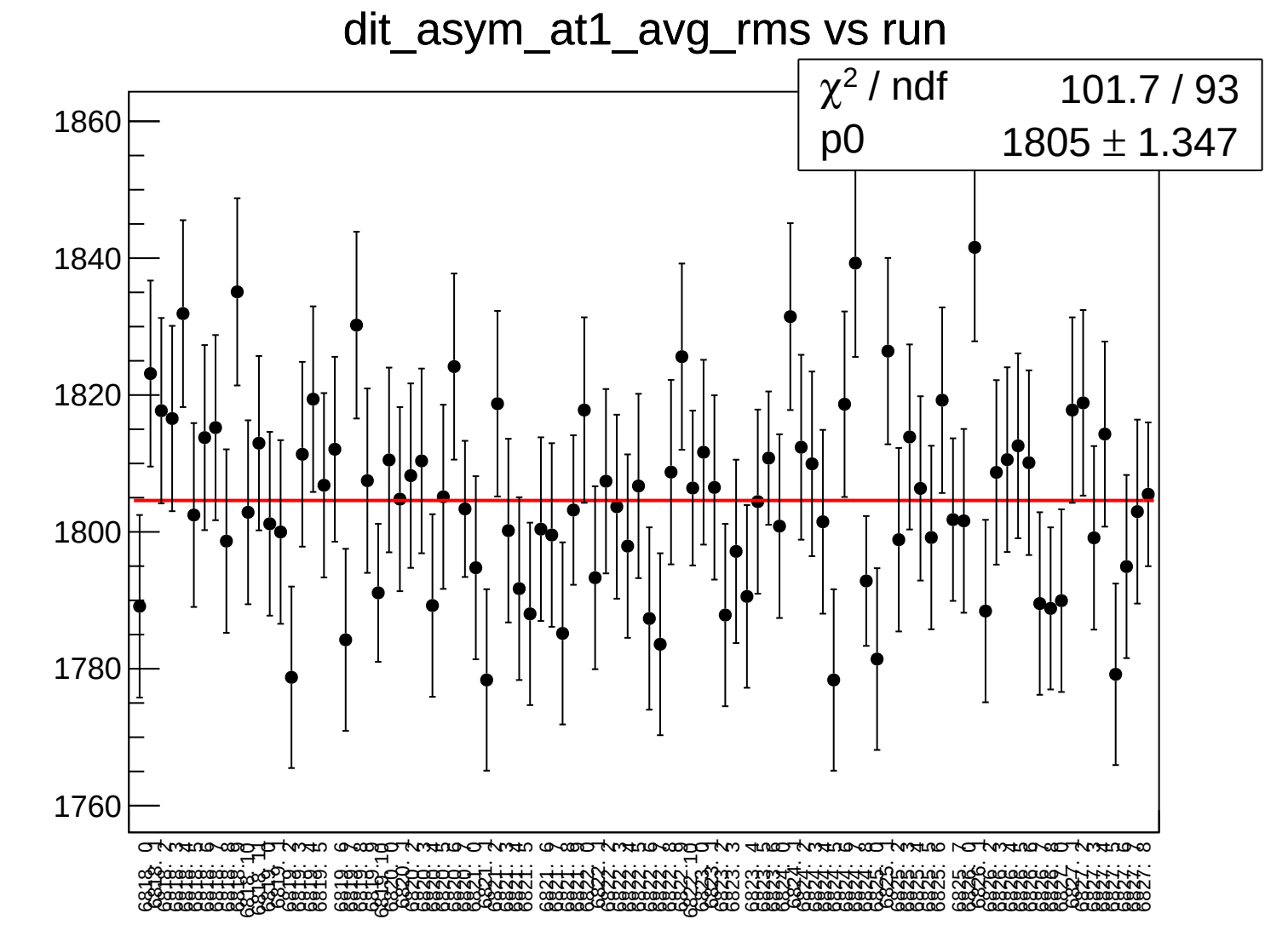

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 95.2 / 93
p0 −184 ± 468.3
pull
Entries 94
Mean 1298
Std Dev 0

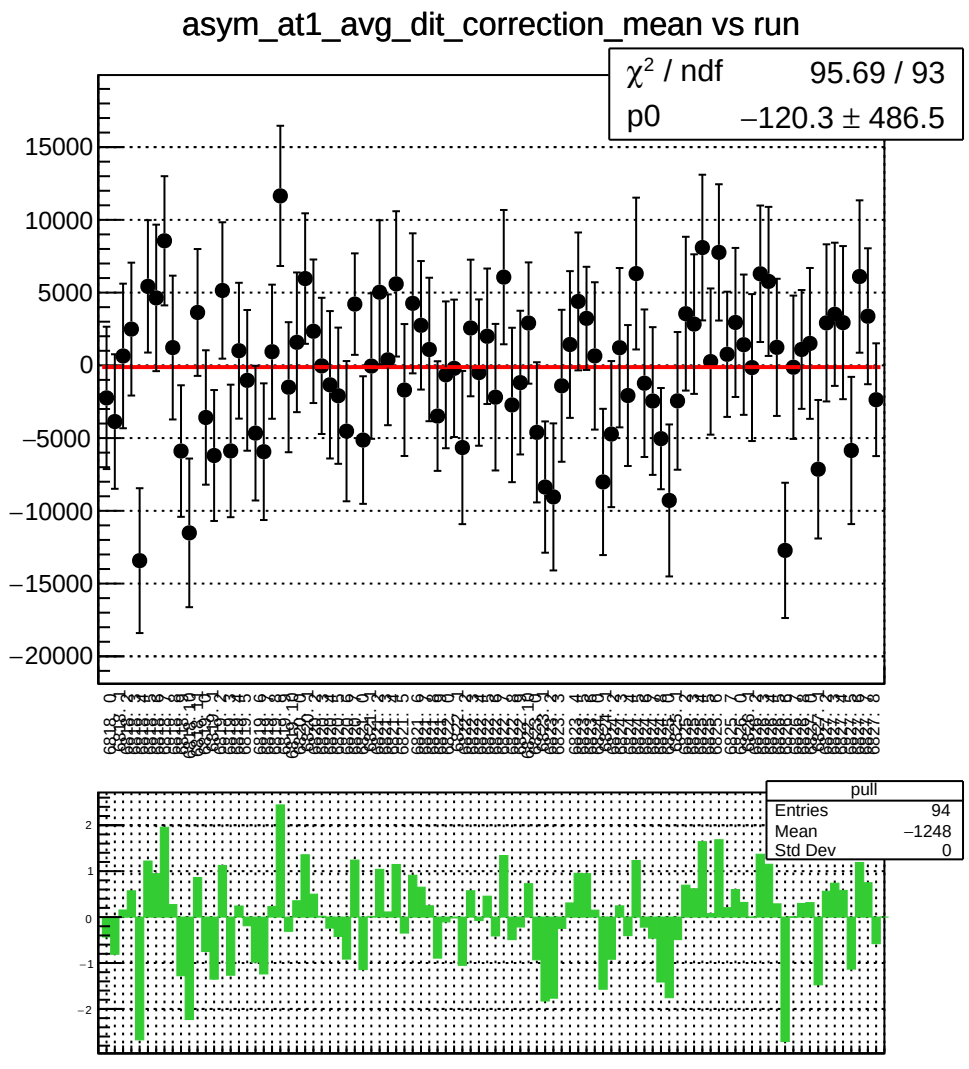

pull1D
Entries 94
Mean 0.00141
Std Dev 1.006

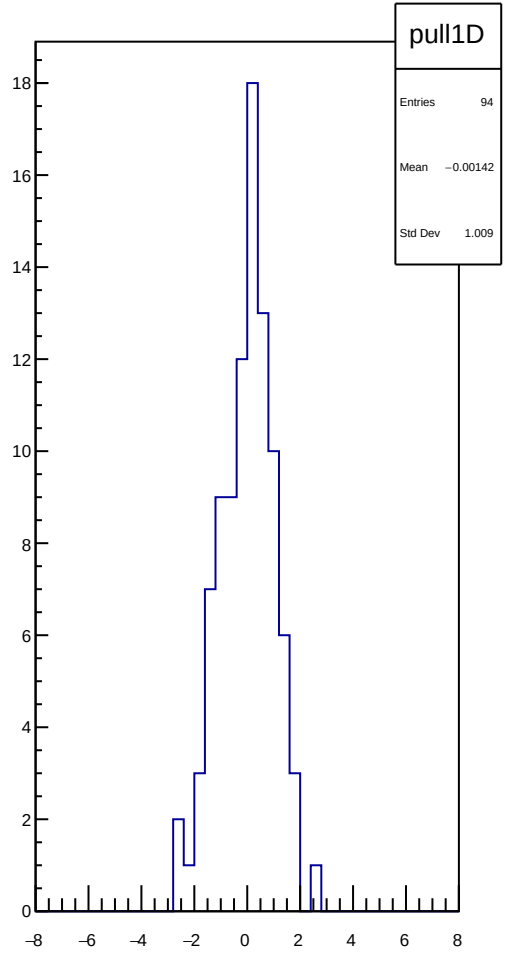

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.173e+04 / 93
p0 442.2 ± 0.3311
600
550
500
450
400
350

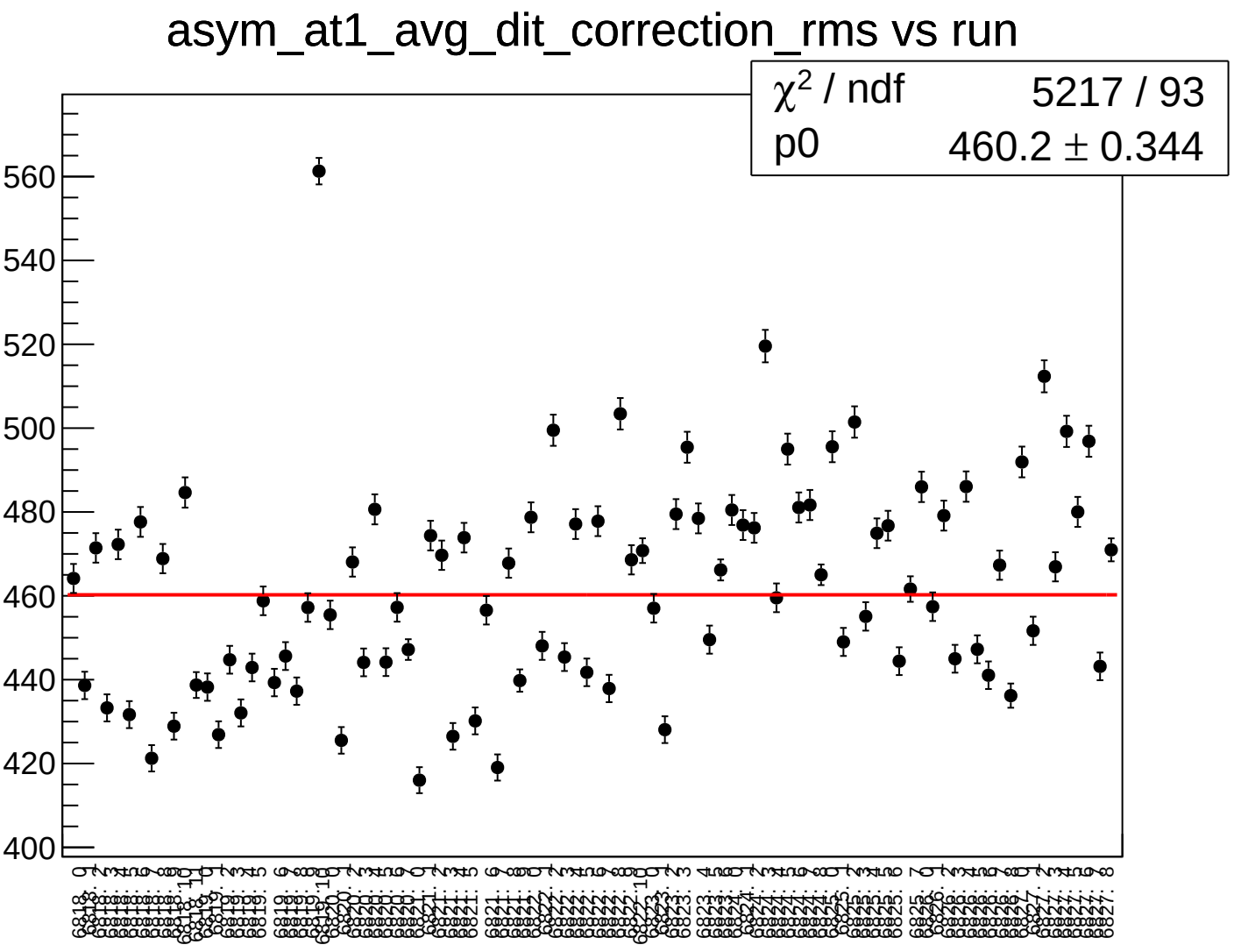

dit_asym_at1_avg_mean vs run
χ² / ndf 77.06 / 93
p0 248.4 ± 1905
pull
Entries 94
Mean 229.1
Std Dev 0

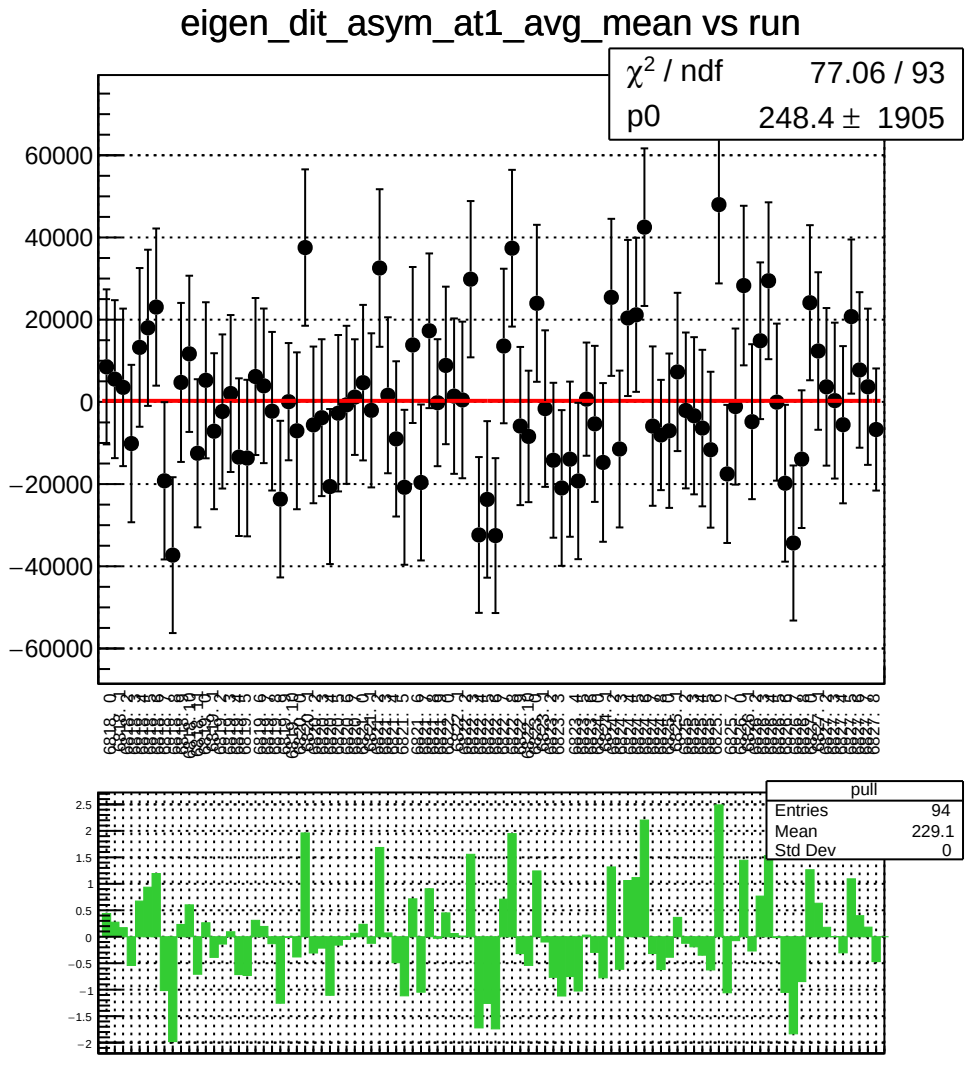

pull1D
Entries 94
Mean 0.009345
Std Dev 0.9054

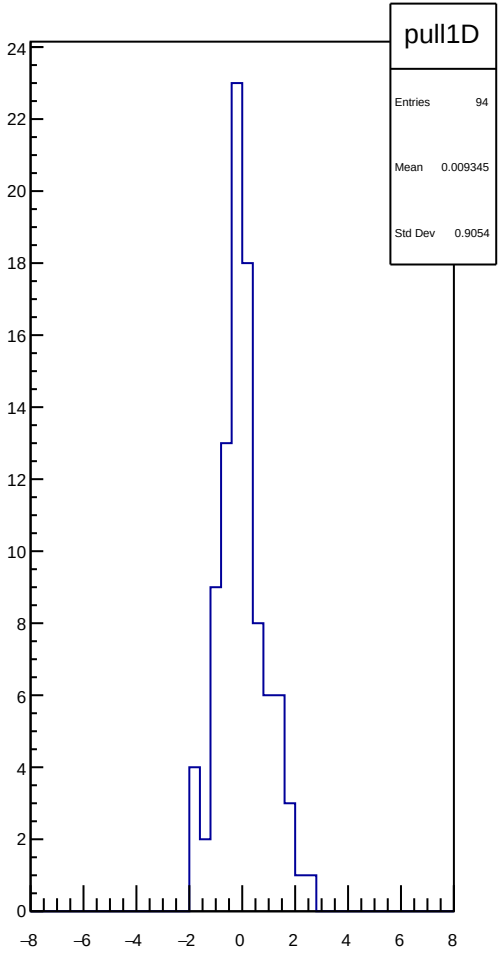

dit_asym_at1_avg_rms vs run
χ² / ndf 101.7 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

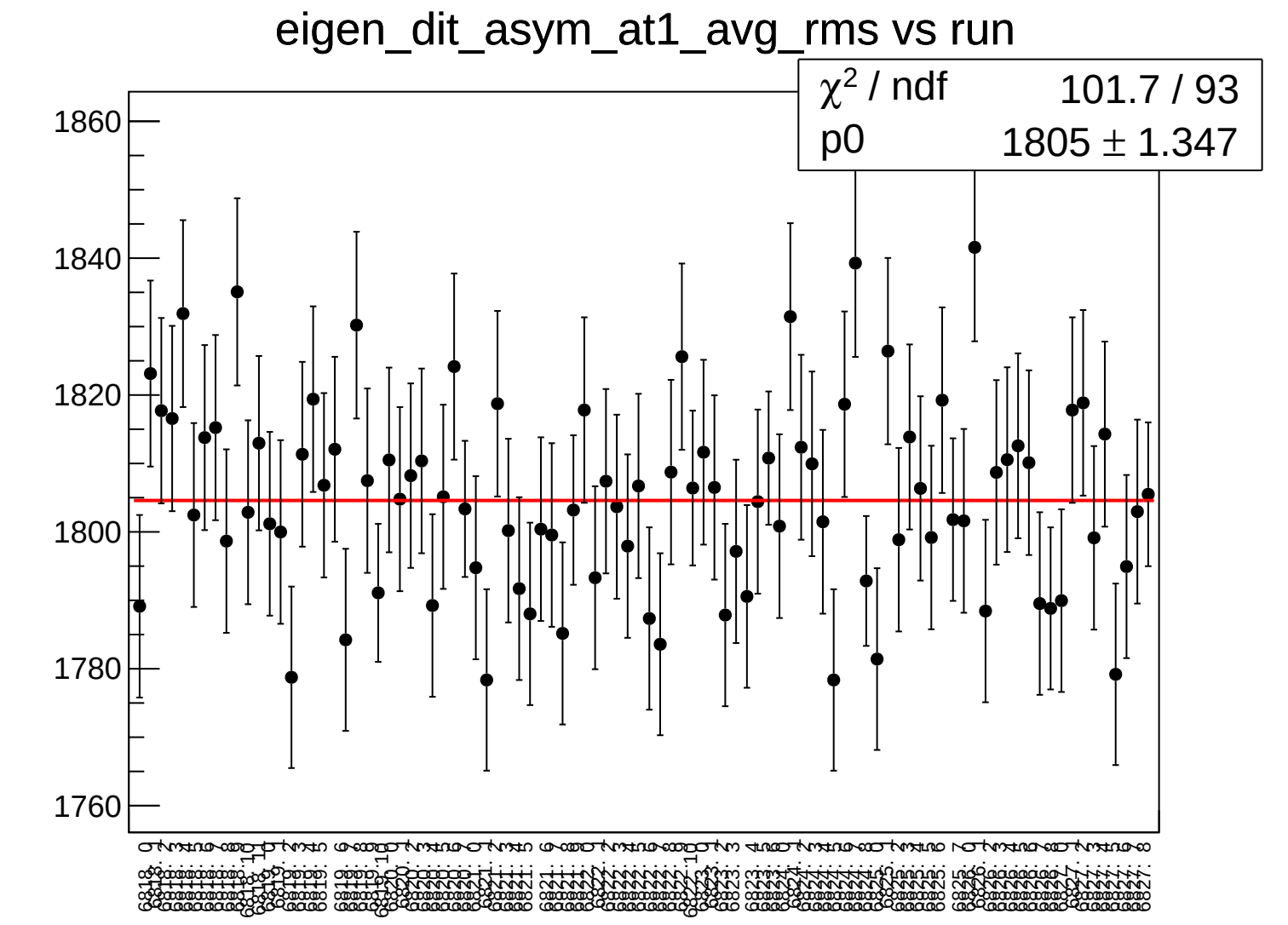

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 95.69 / 93
p0 −120.3 ± 486.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −1248
Std Dev 0
2
1
0
−1
−2

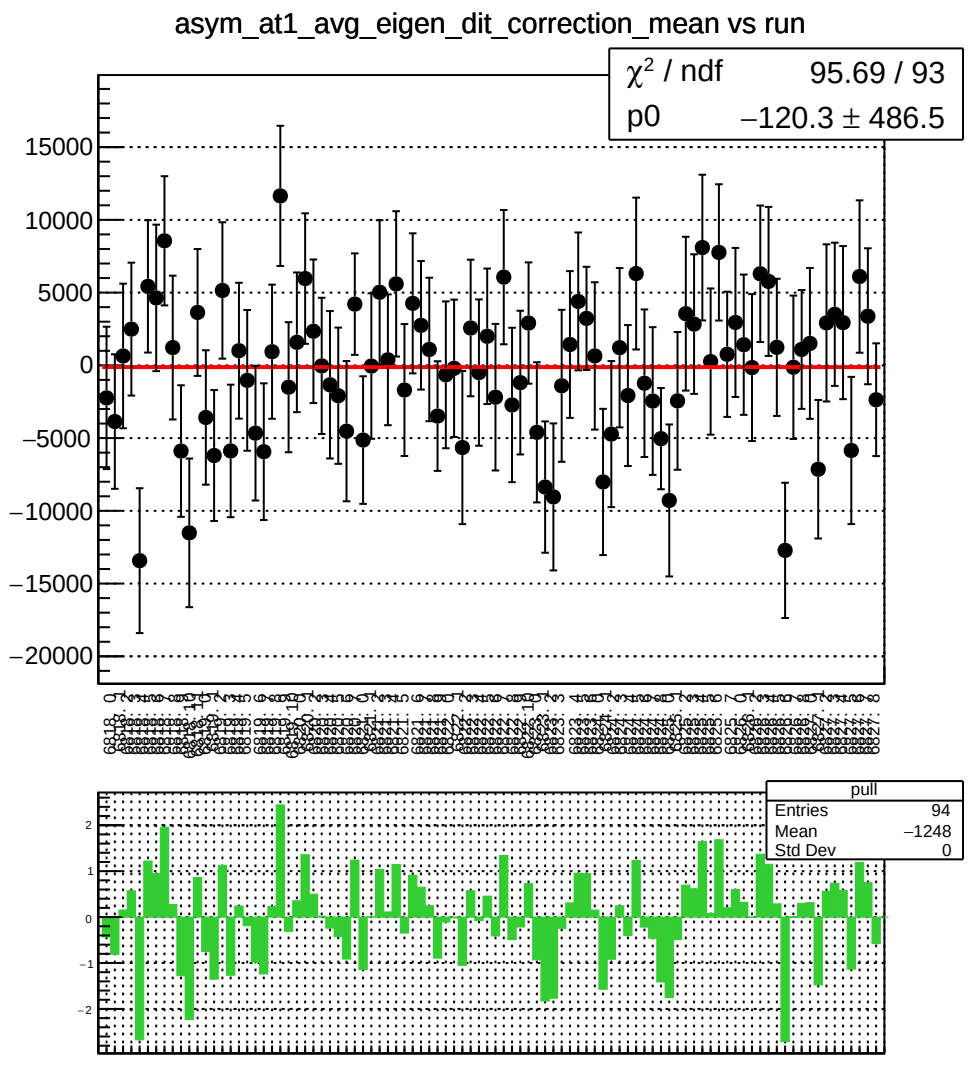

pull1D
Entries 94
Mean −0.00142
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

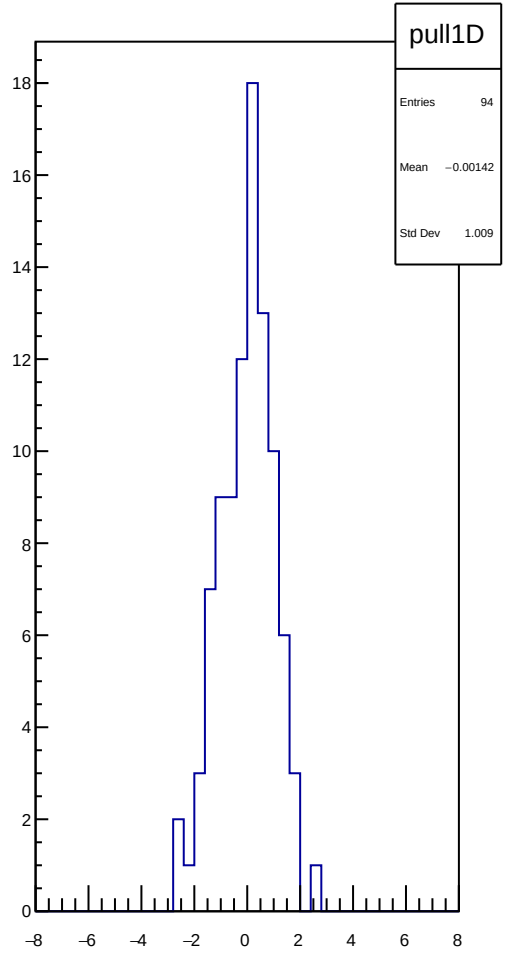

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 5217 / 93
p0 460.2 ± 0.344
560
540
520
500
480
460
440
420
400

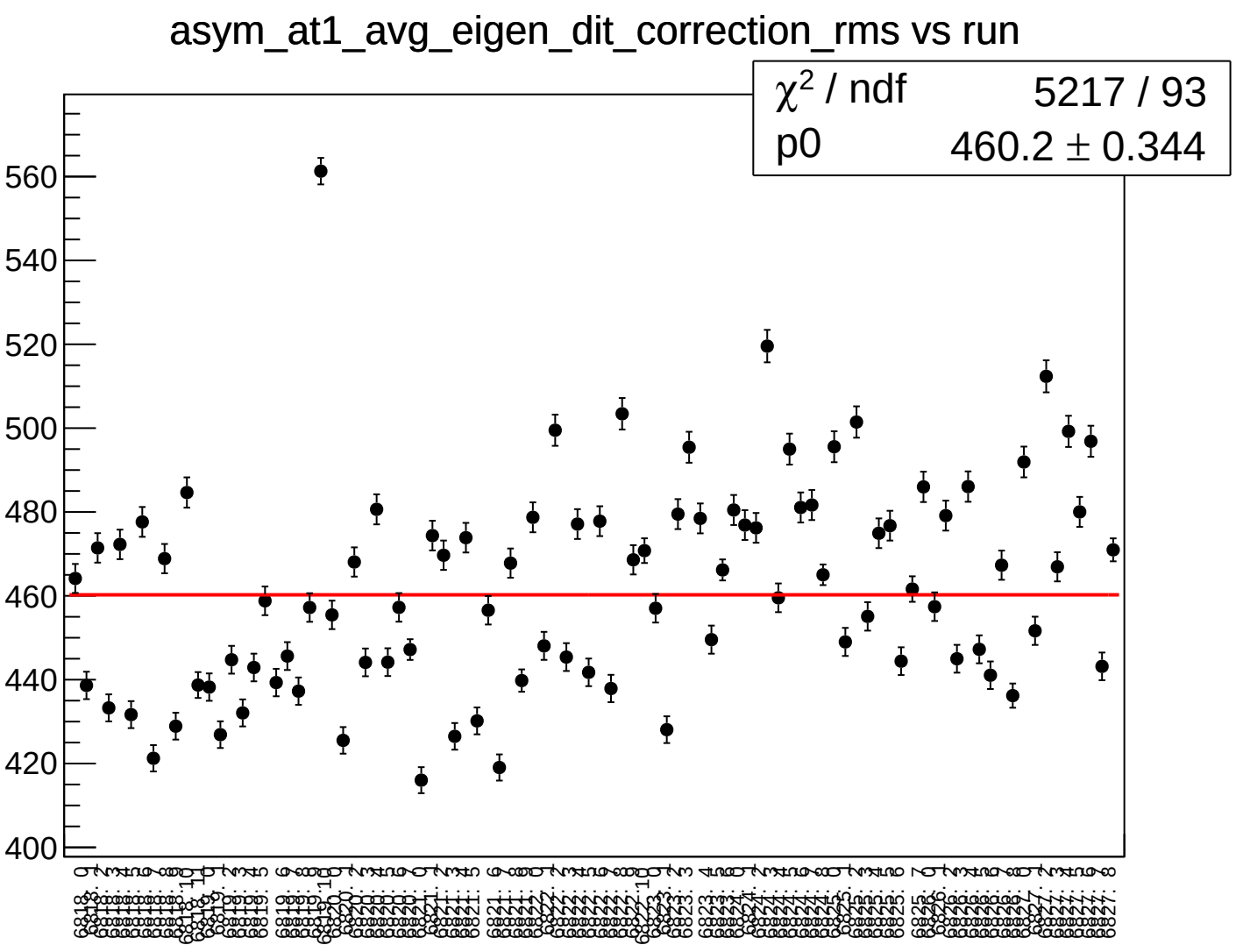

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 77.06 / 93
p0 248.4 ± 1905
pull
Entries 94
Mean 229.1
Std Dev 0

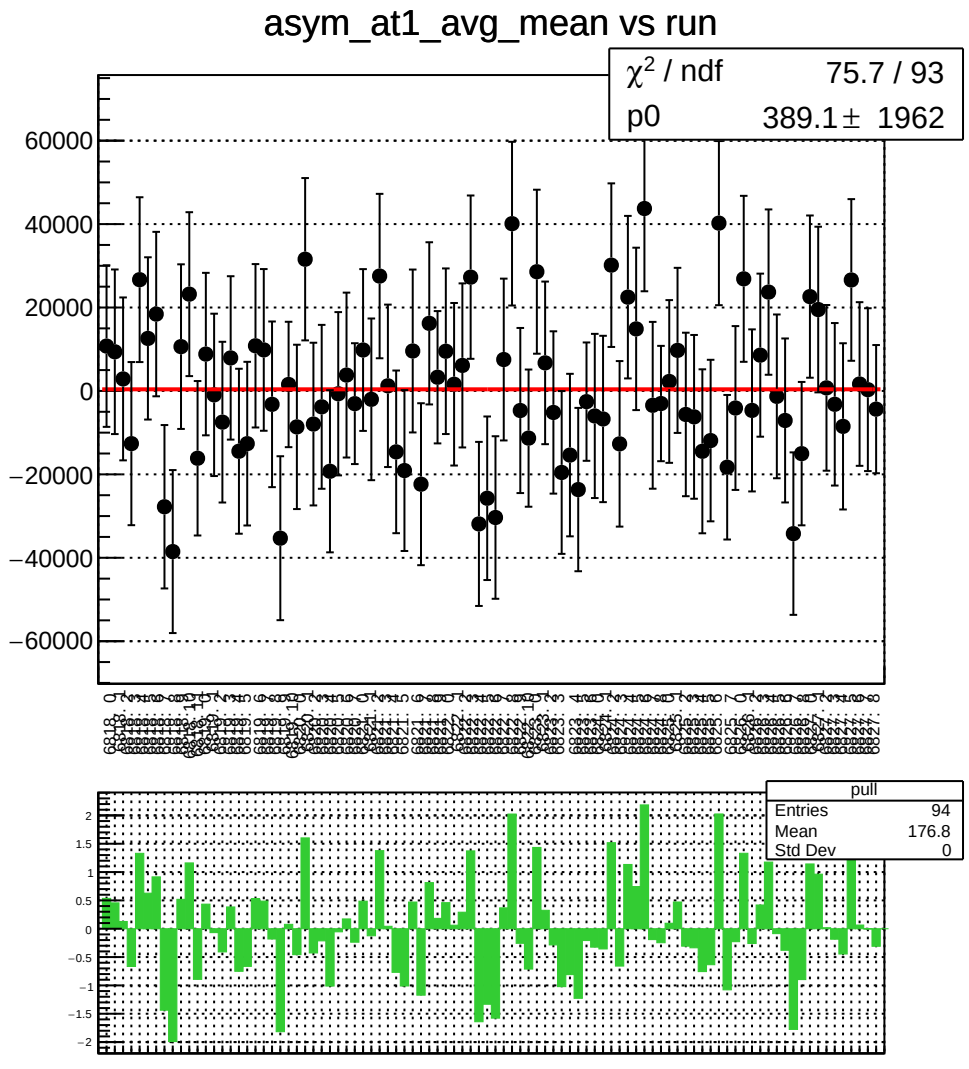

pull1D
Entries 94
Mean 0.009345
Std Dev 0.9054

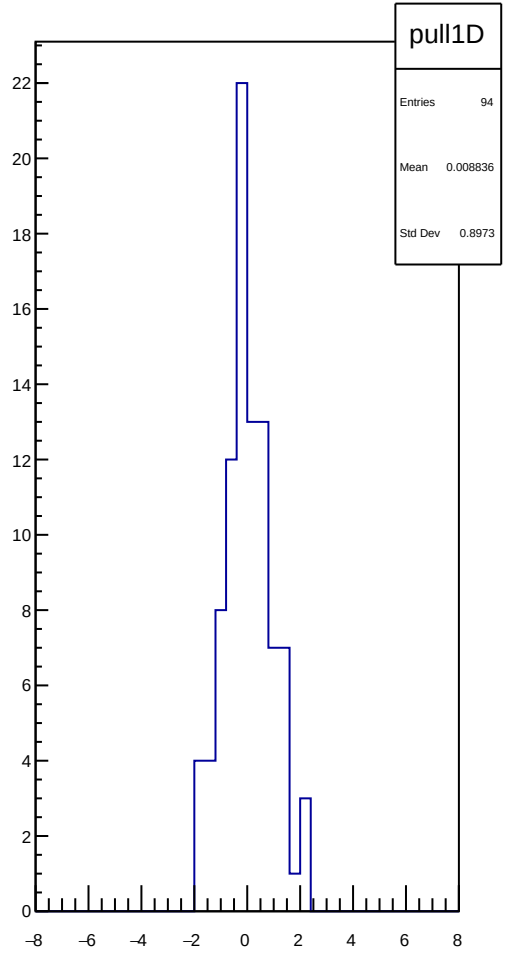

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 101.7 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

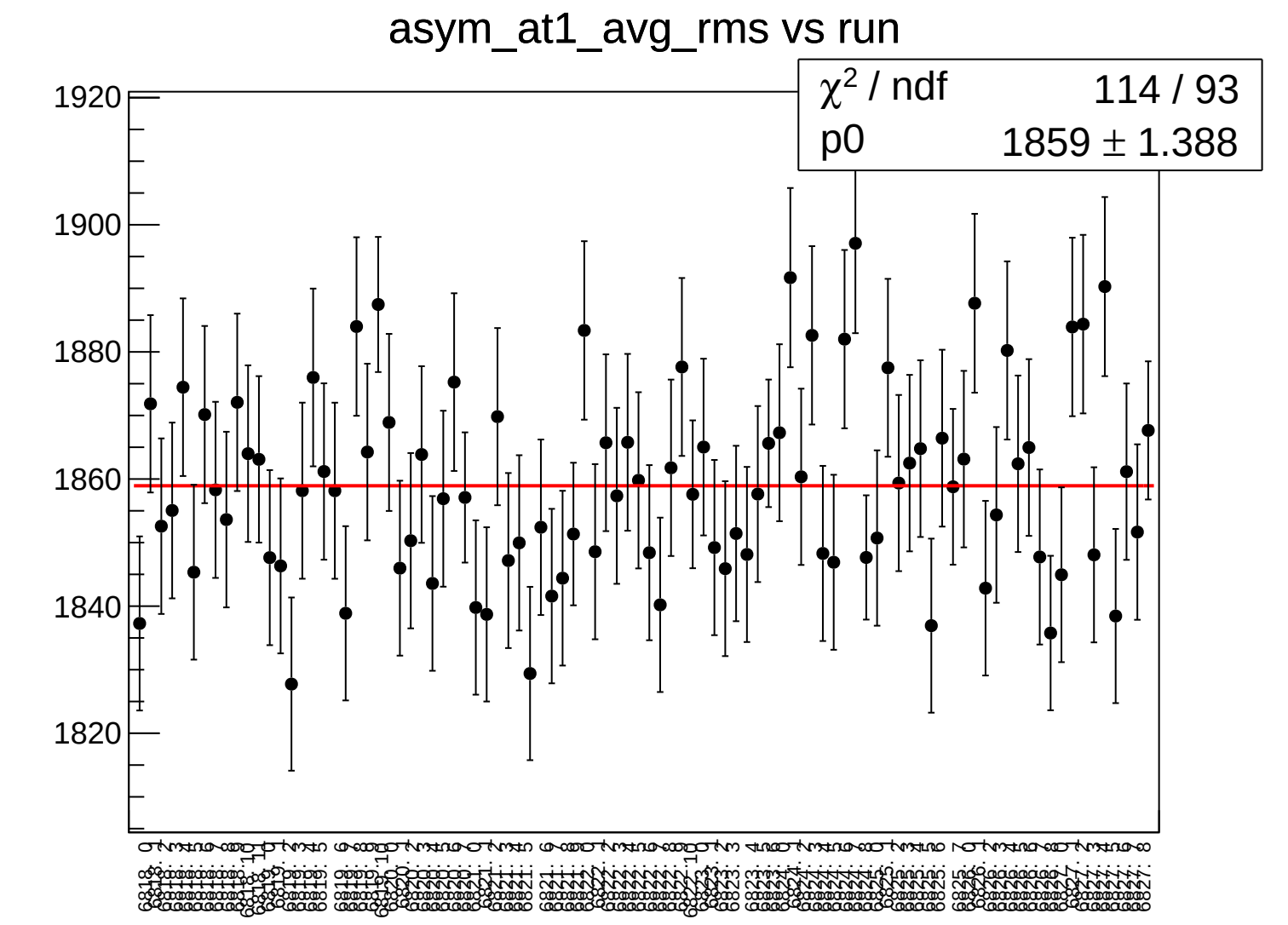

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.69 / 93
p0 −120.3 ± 486.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −1248
Std Dev 0
2
1
0
−1
−2

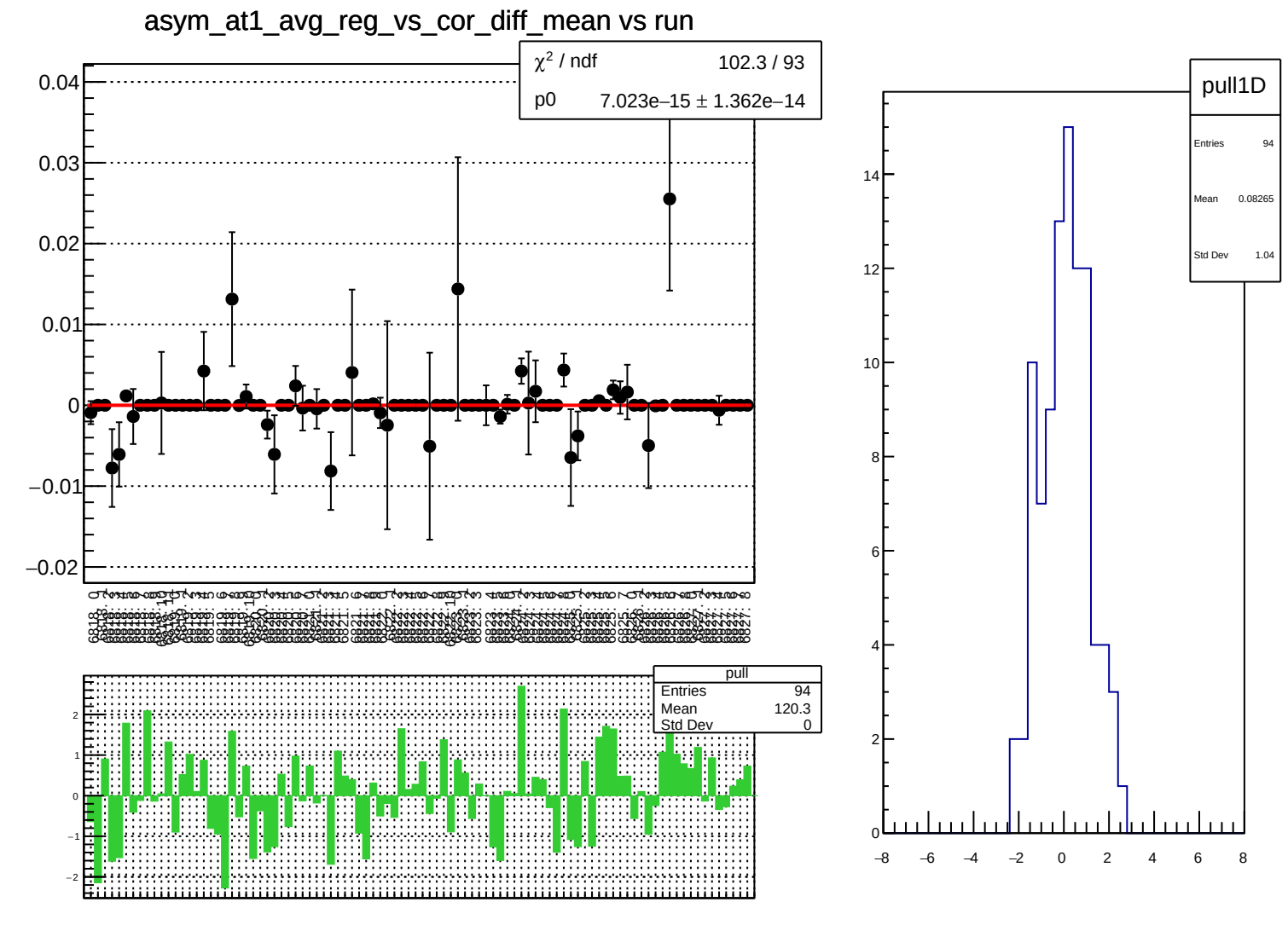

pull1D
Entries 94
Mean −0.00142
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

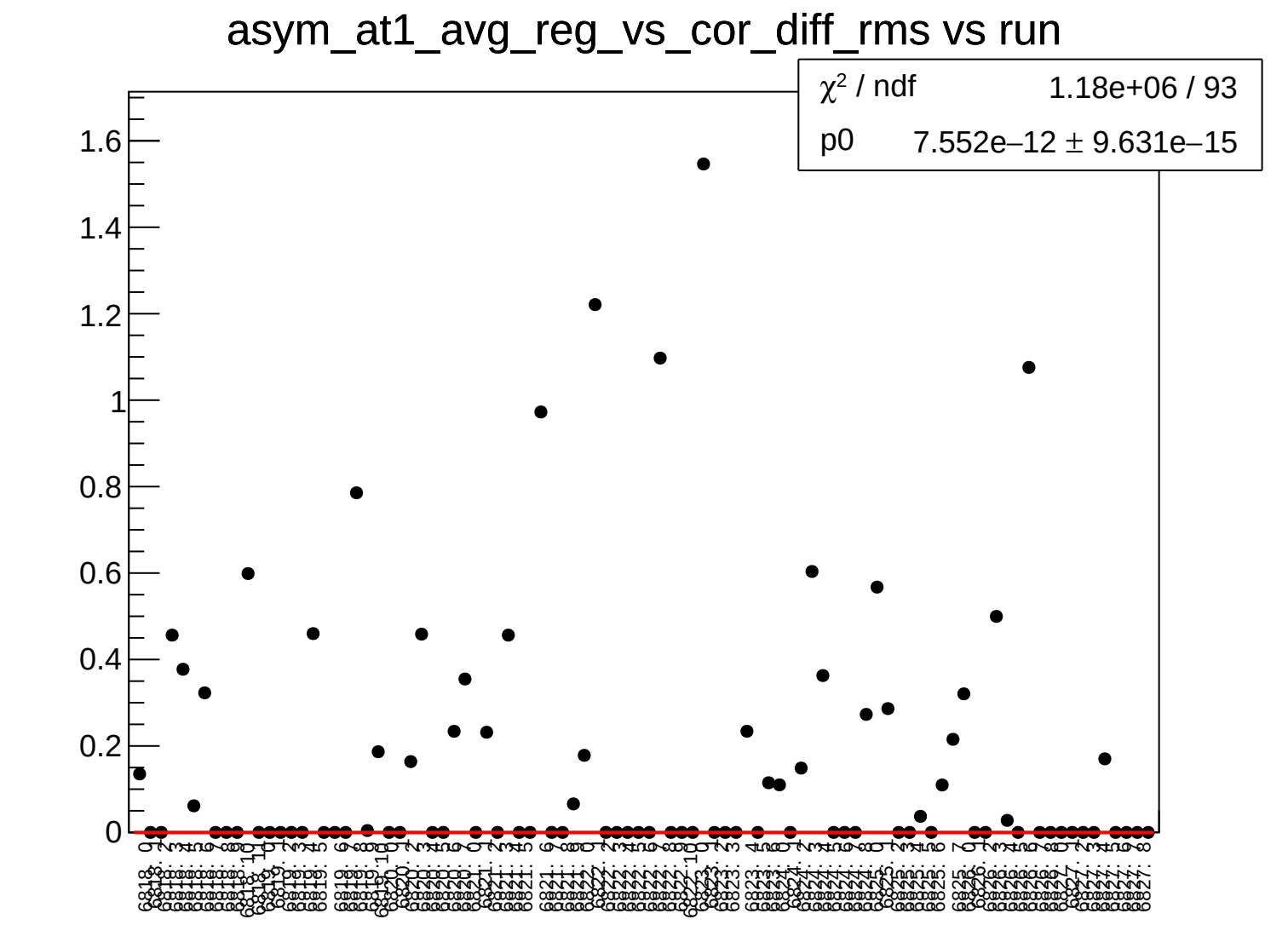

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5217 / 93
p0 460.2 ± 0.344
560
540
520
500
480
460
440
420
400

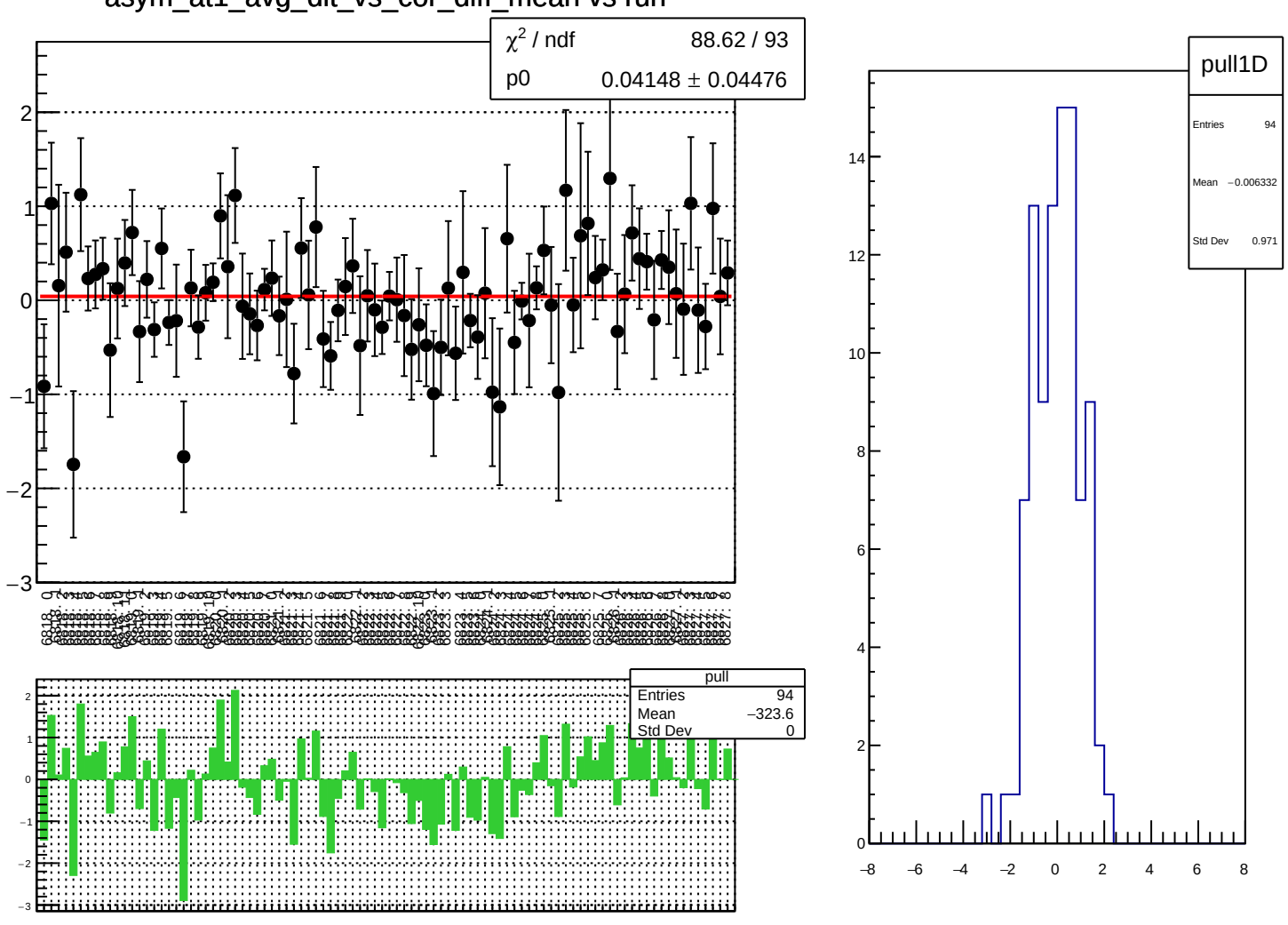

asym_at1_avg_mean vs run
χ² / ndf 75.7 / 93
p0 389.1 ± 1962
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 176.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

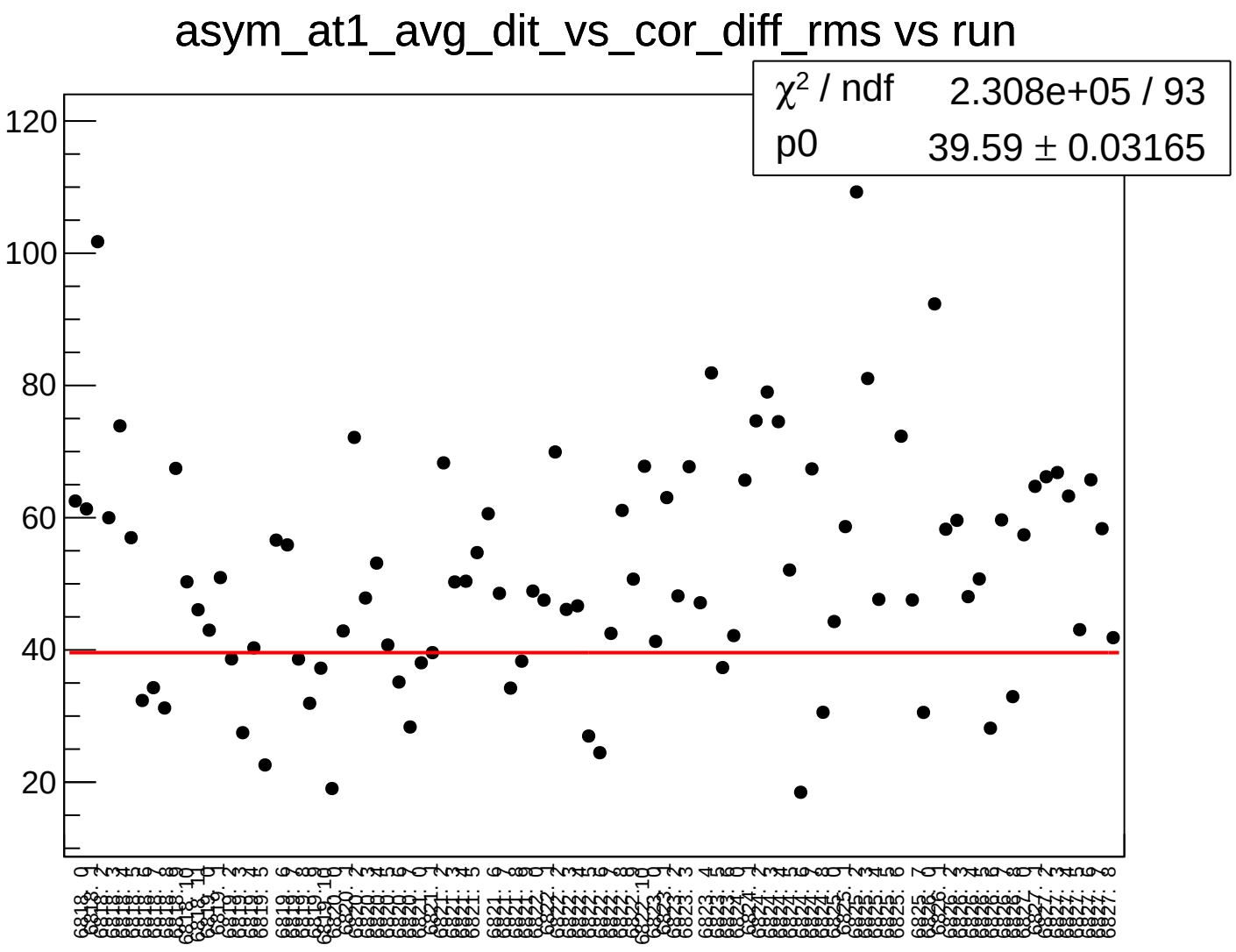

pull1D
Entries 94
Mean 0.008836
Std Dev 0.8973
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

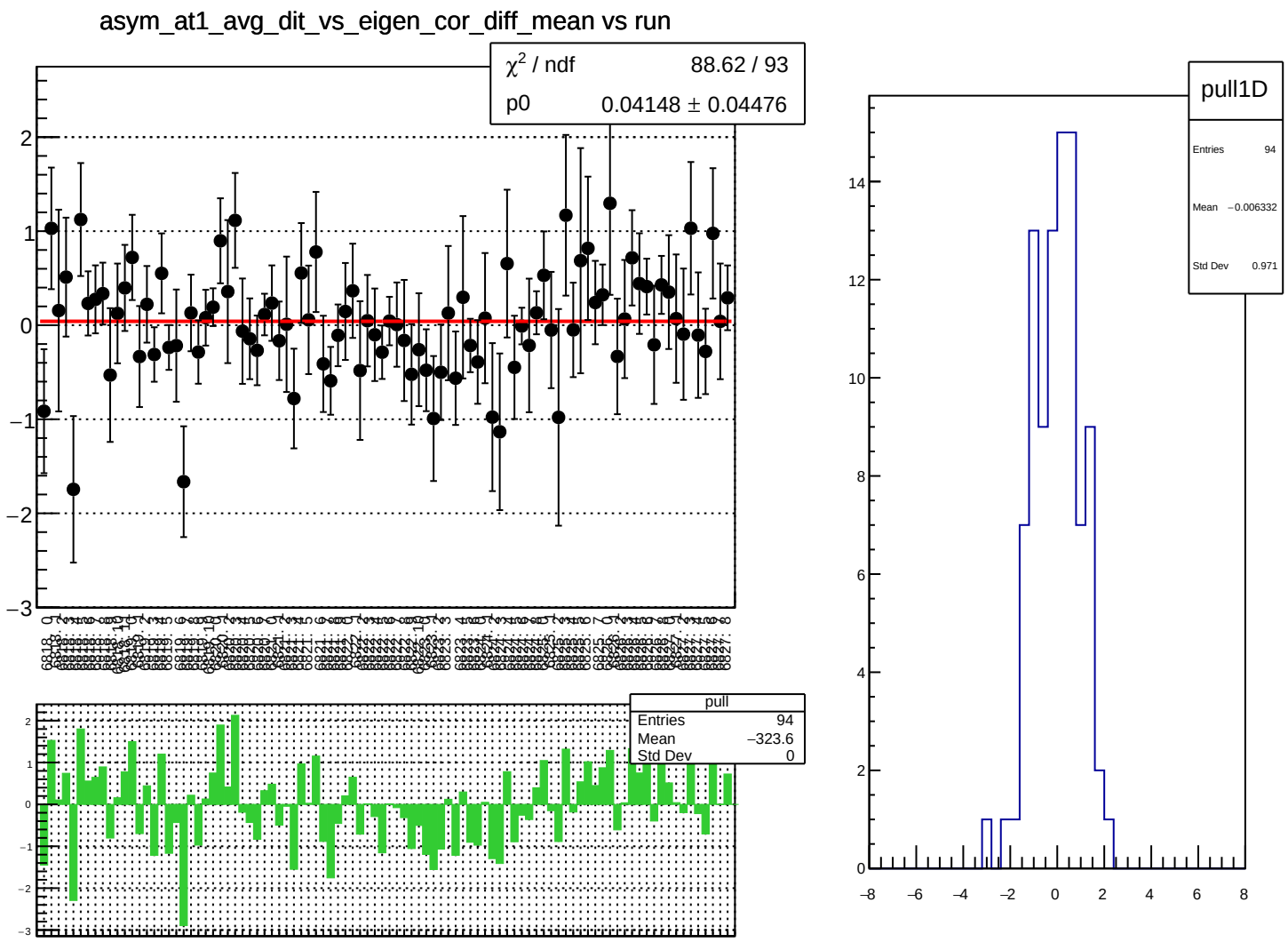

asym_at1_avg_rms vs run
χ² / ndf 114 / 93
p0 1859 ± 1.388
1920
1900
1880
1860
1840
1820

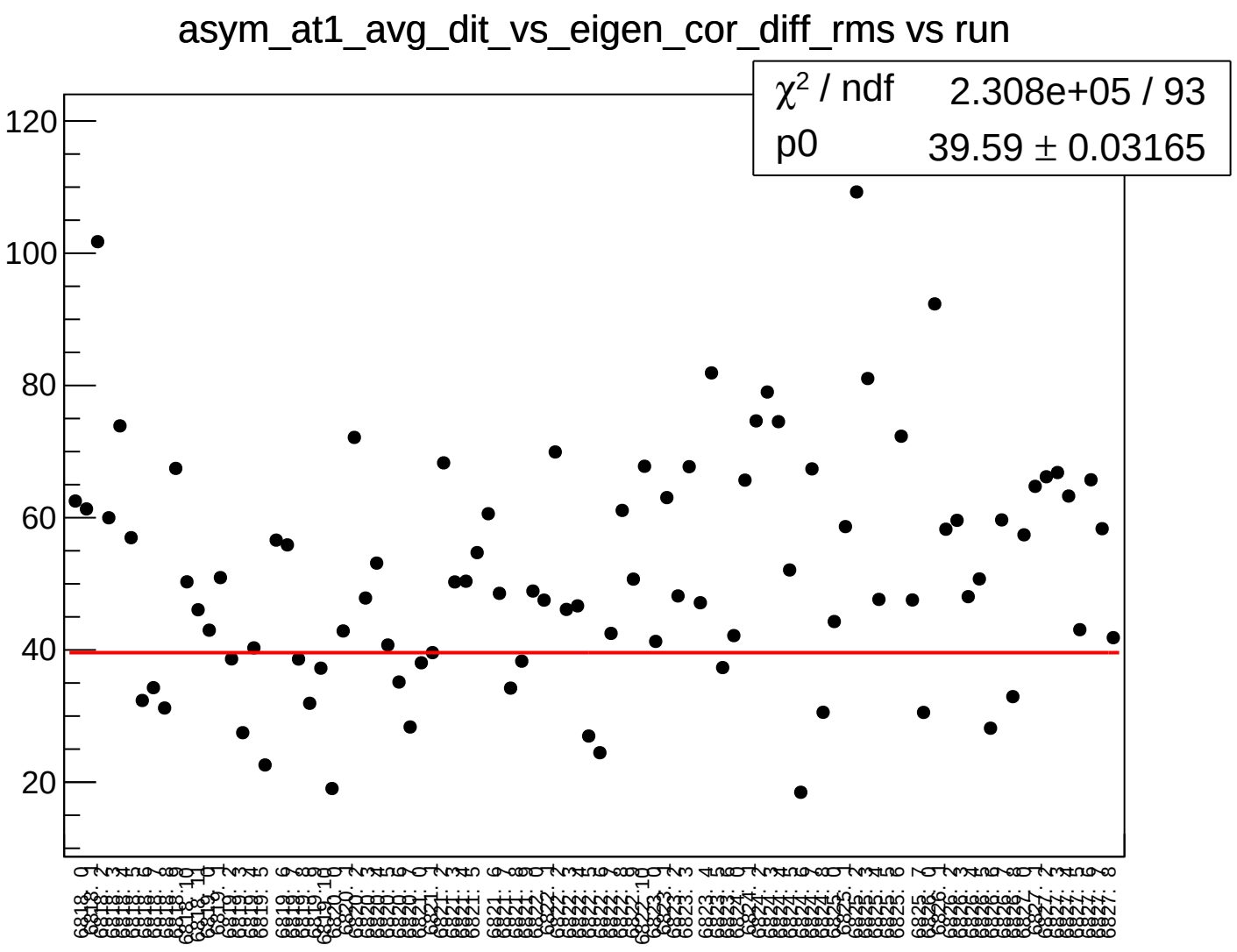

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 93
p0 7.023e−15 ± 1.362e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 120.3
Std Dev 0
pull1D
Entries 94
Mean 0.08265
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

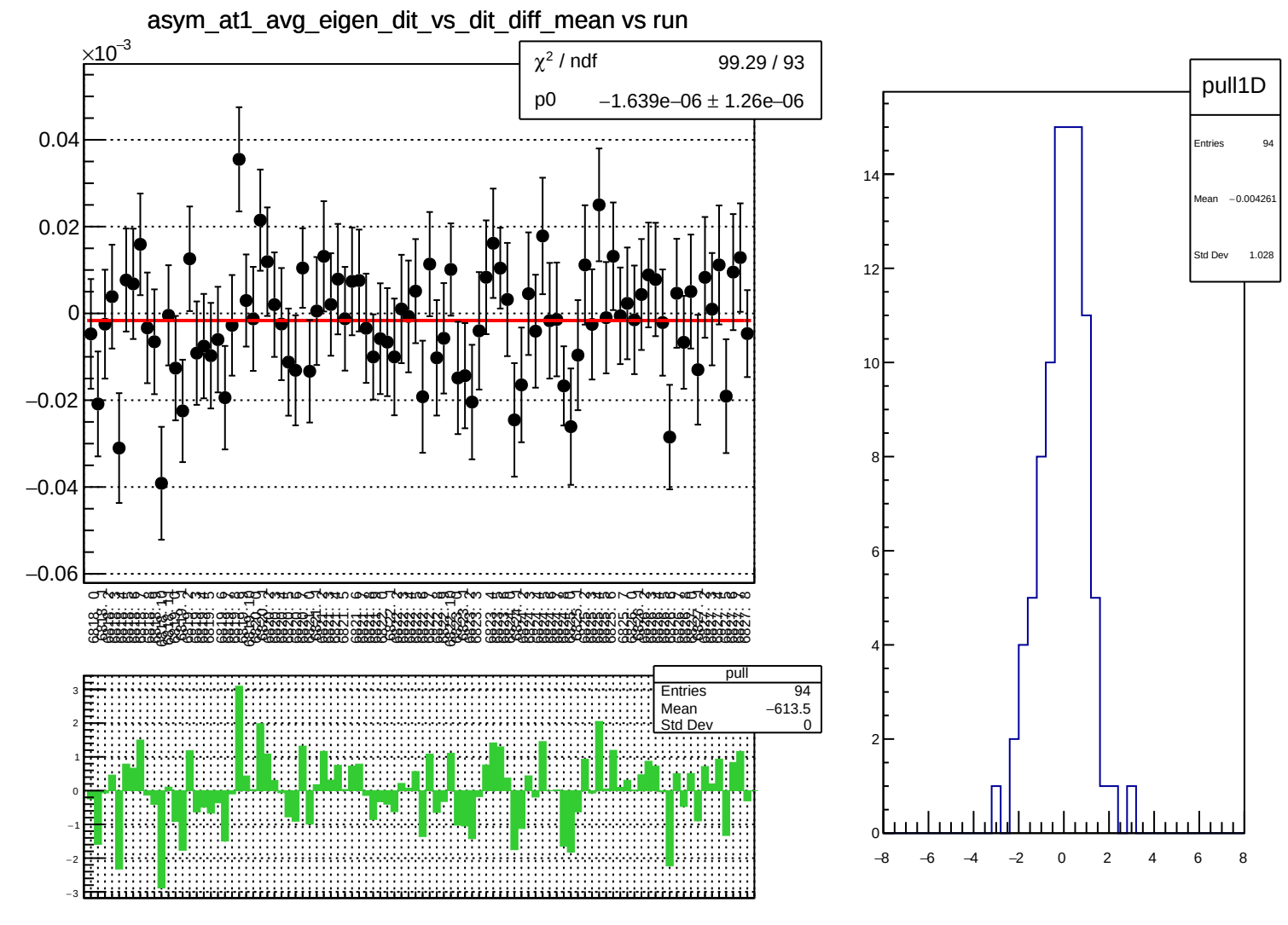

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 93
p0 7.552e−12 ± 9.631e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

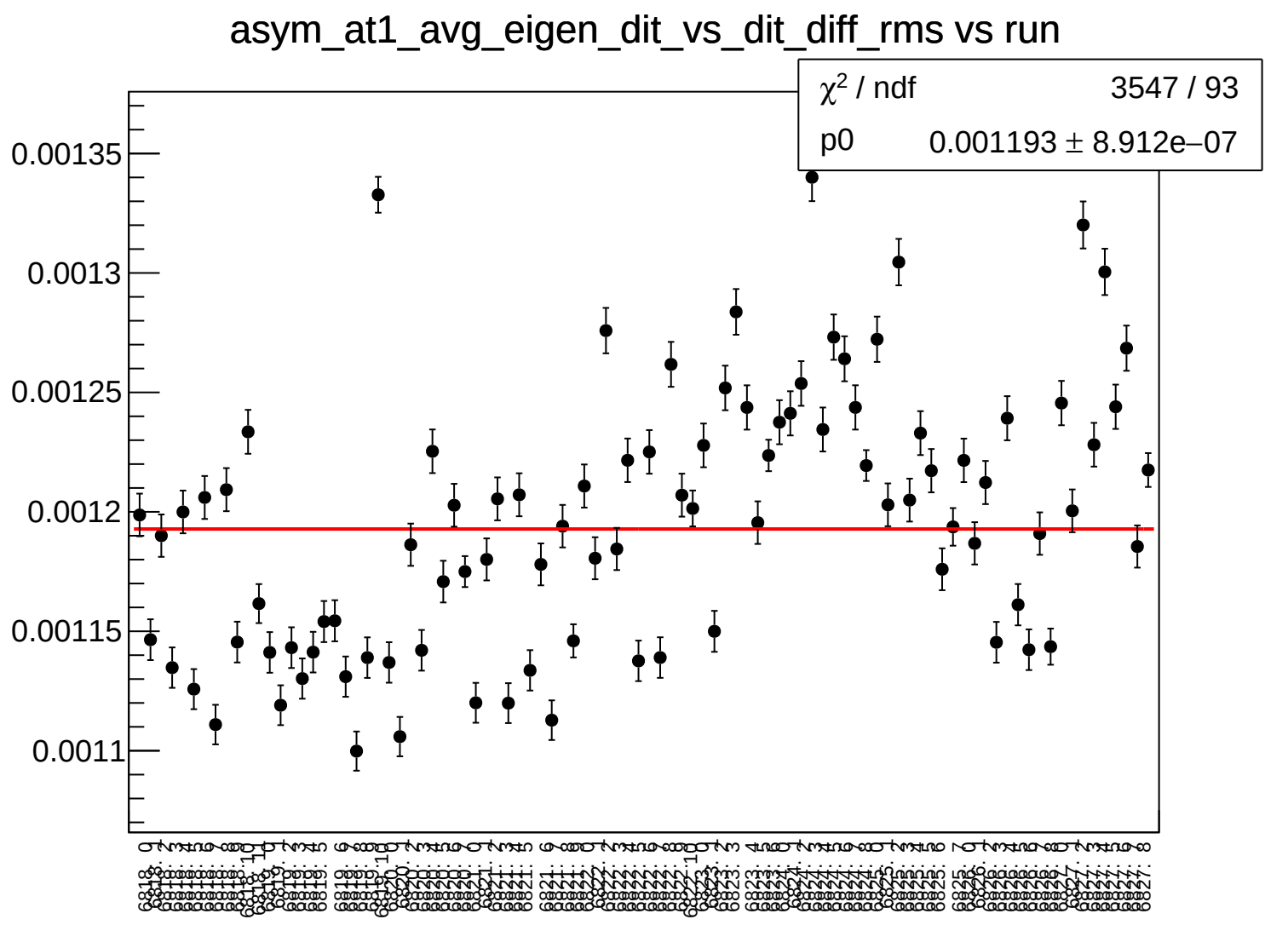

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.62 / 93
p0 0.04148 ± 0.04476
pull
Entries 94
Mean −323.6
Std Dev 0
pull1D
Entries 94
Mean −0.006332
Std Dev 0.971

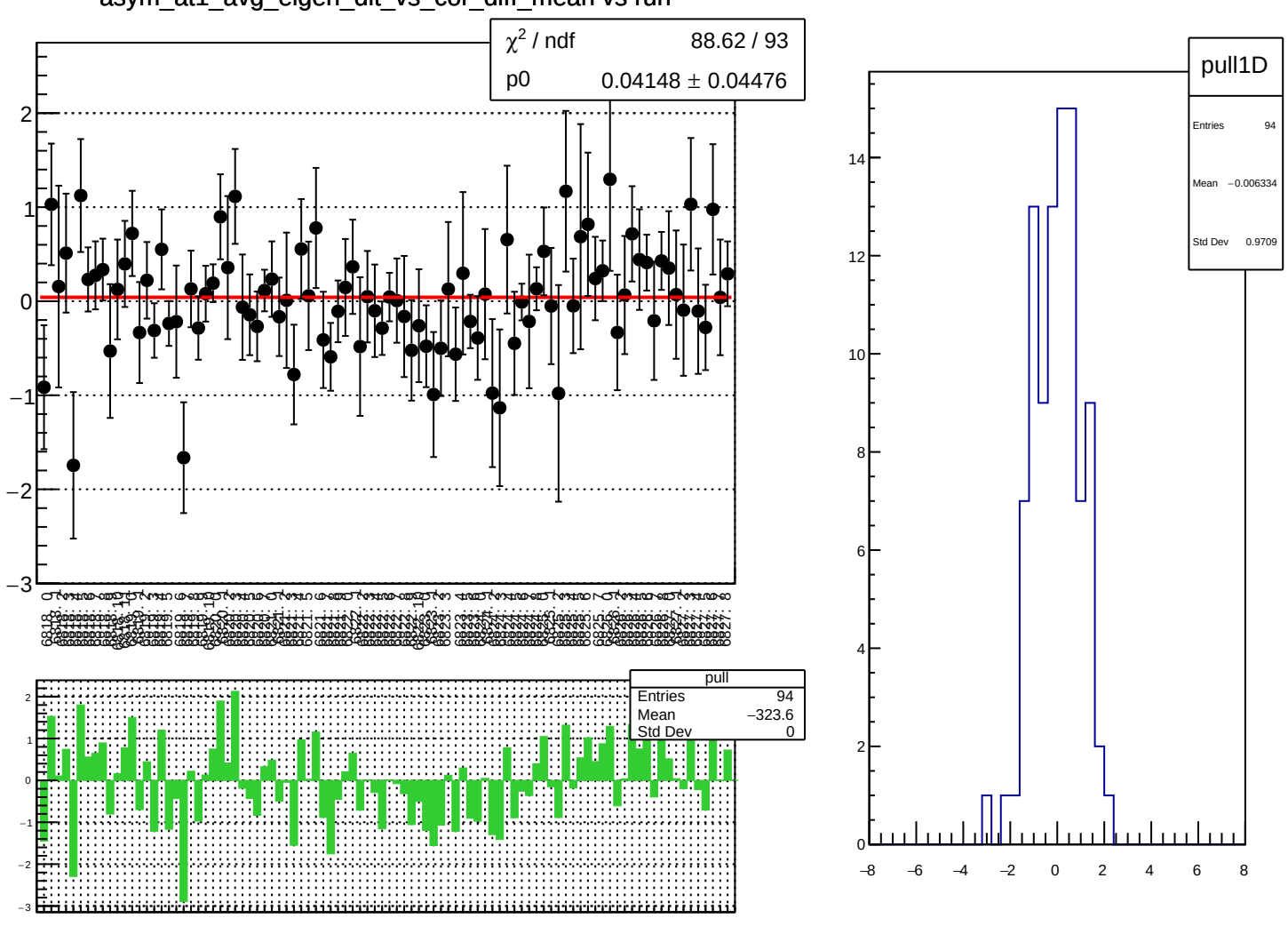

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 93
p0 39.59 ± 0.03165
120
100
80
60
40
20

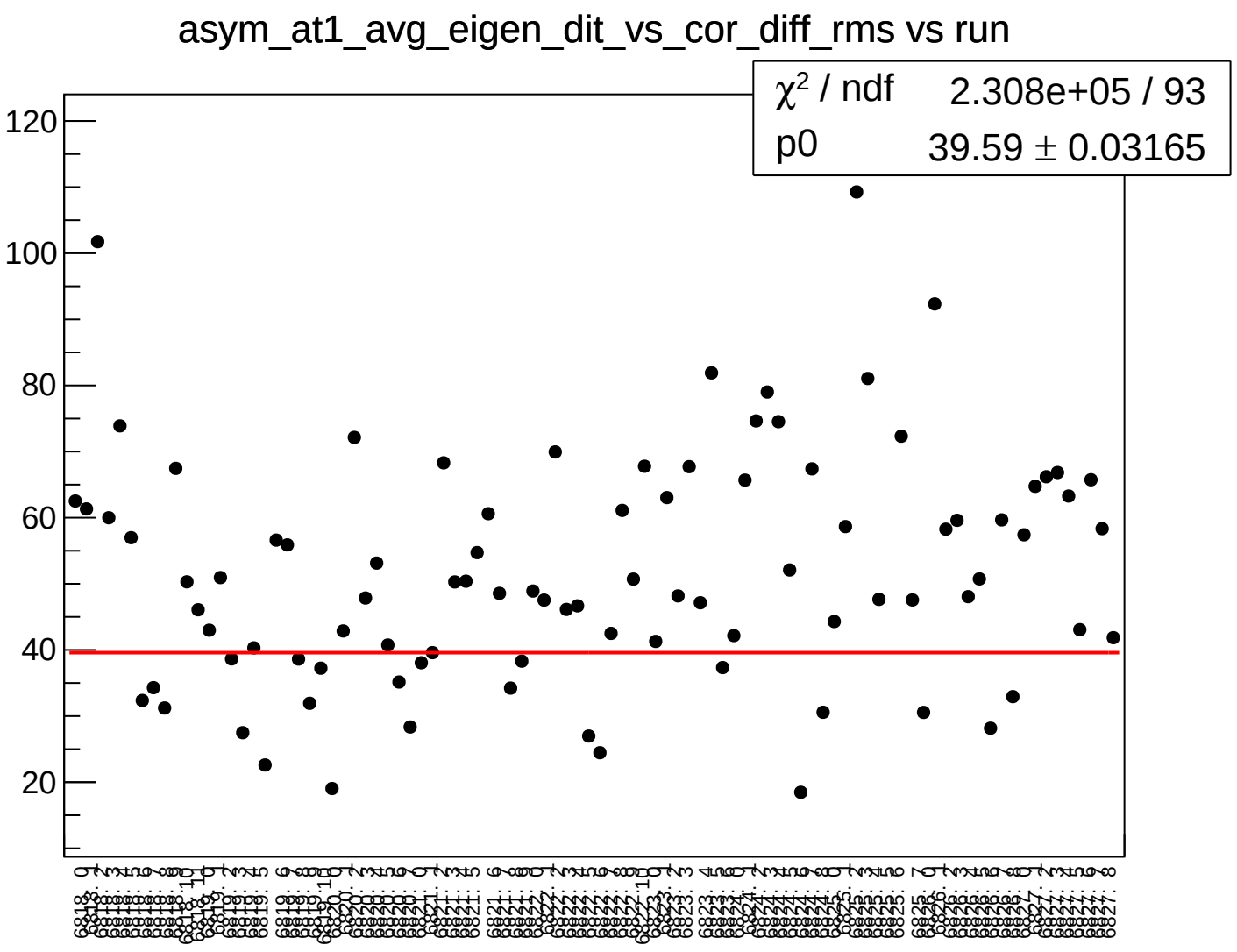

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.62 / 93
p0 0.04148 ± 0.04476
pull
Entries 94
Mean −323.6
Std Dev 0
pull1D
Entries 94
Mean −0.006332
Std Dev 0.971

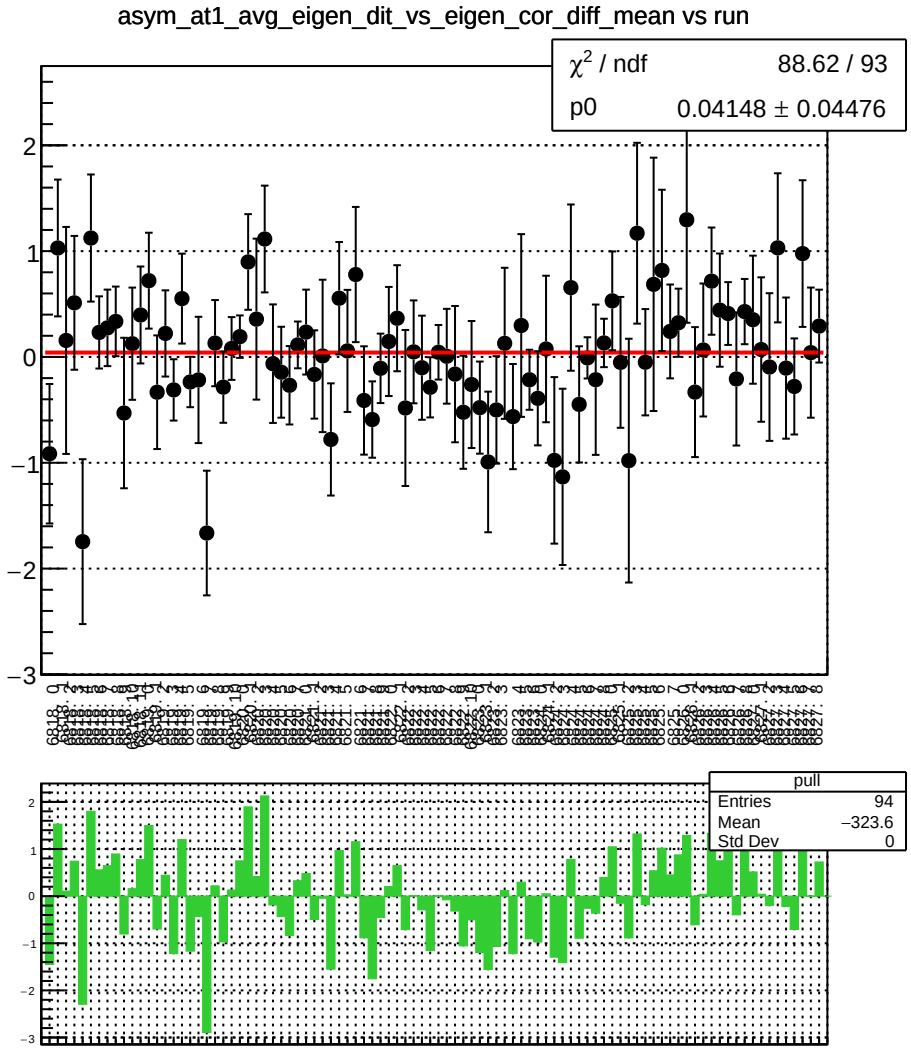

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 93
p0 39.59 ± 0.03165
120
100
80
60
40
20

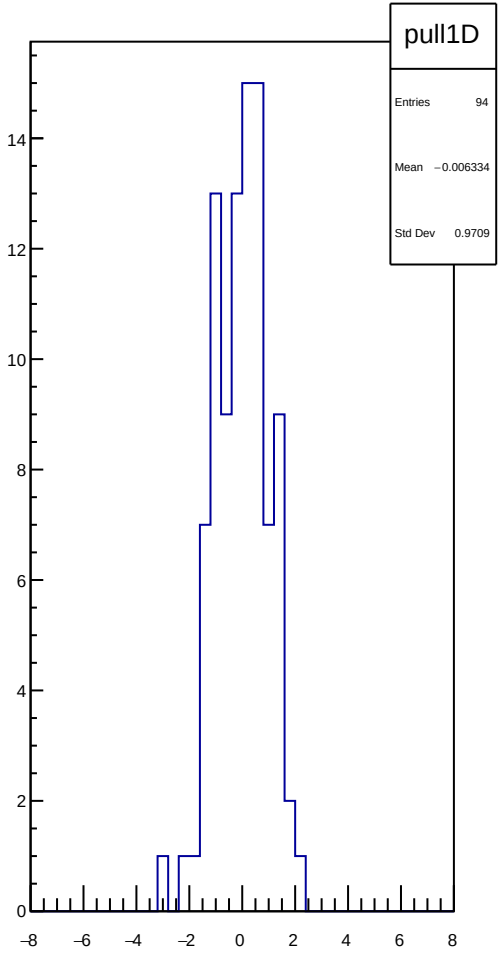

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.29 / 93
p0 −1.639e−06 ± 1.26e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −613.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.004261
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

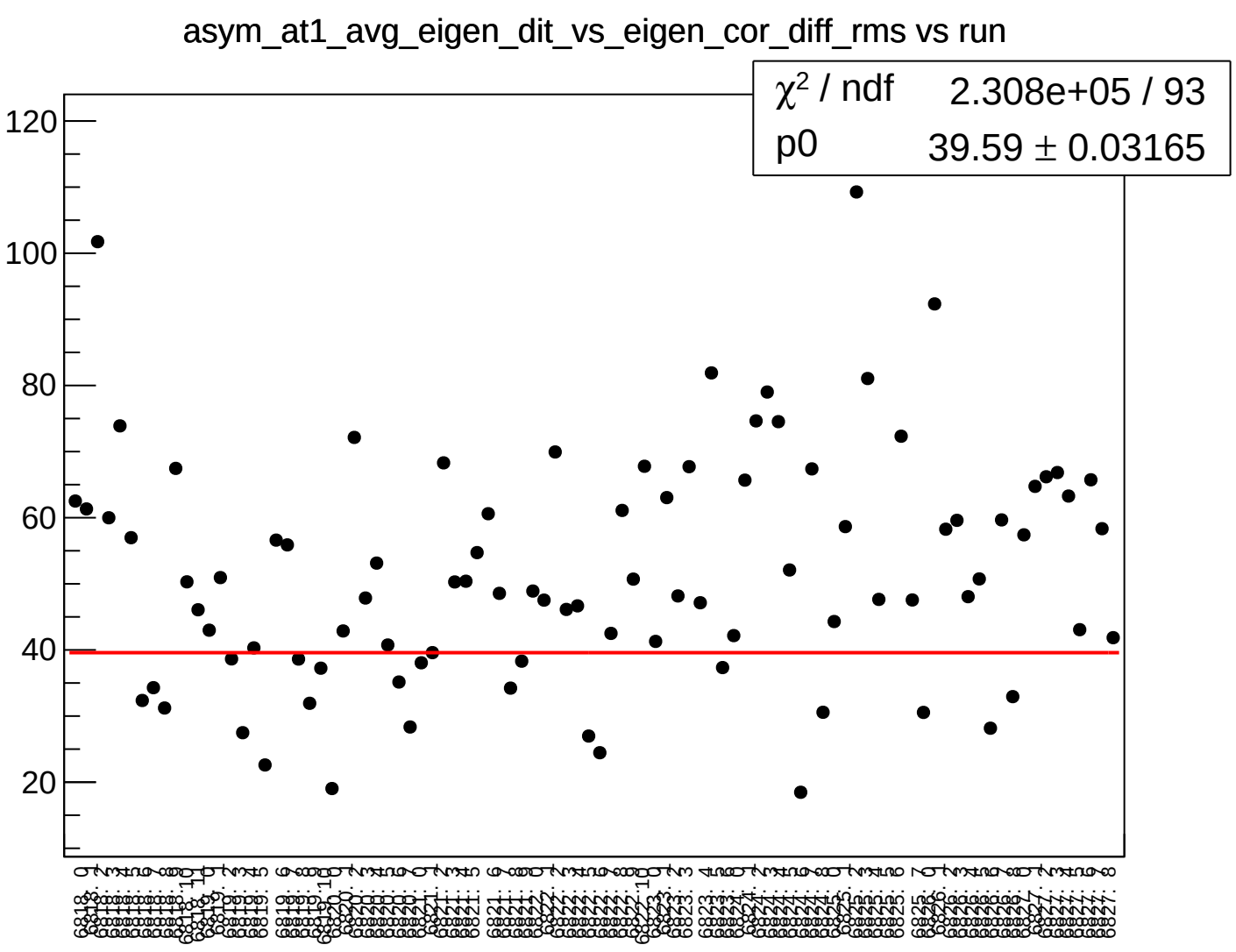

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3547 / 93
p0 0.001193 ± 8.912e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

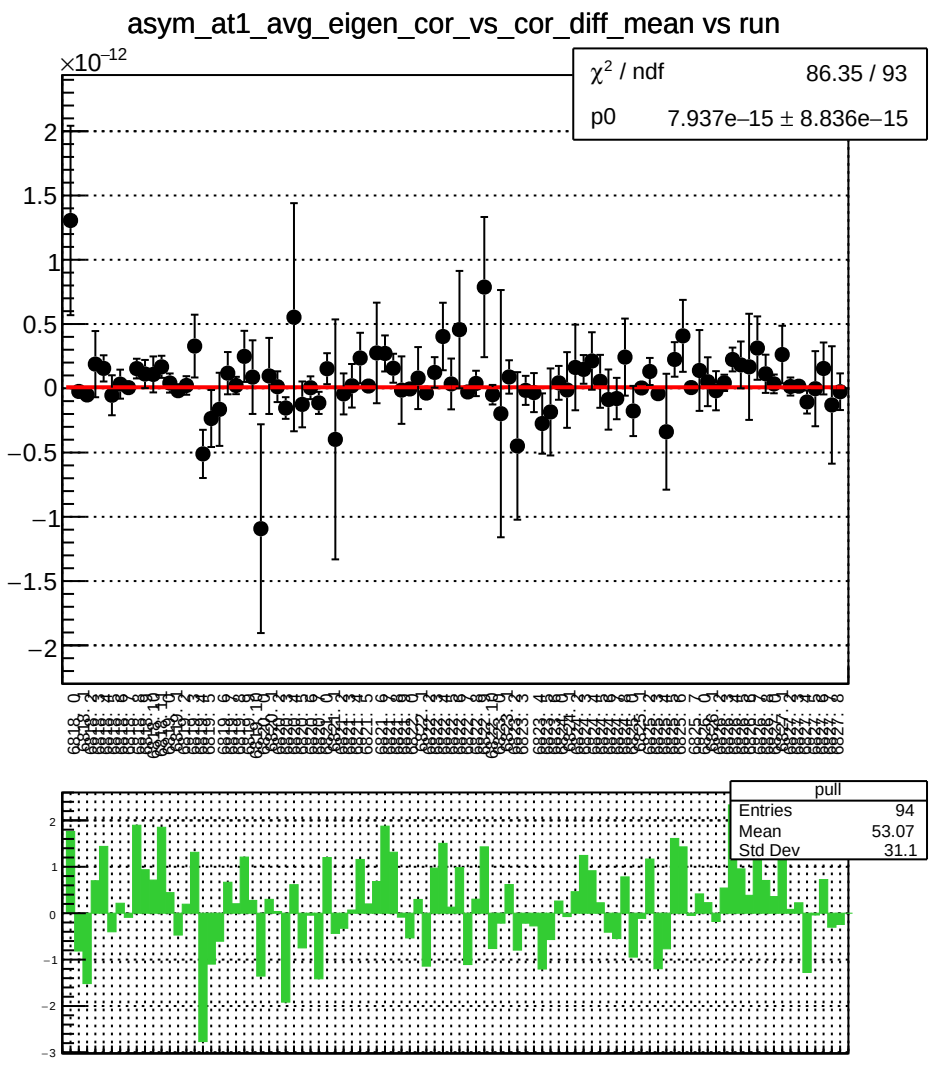

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.62 / 93
p0 0.04148 ± 0.04476
pull
Entries 94
Mean −323.6
Std Dev 0
pull1D
Entries 94
Mean −0.006334
Std Dev 0.9709

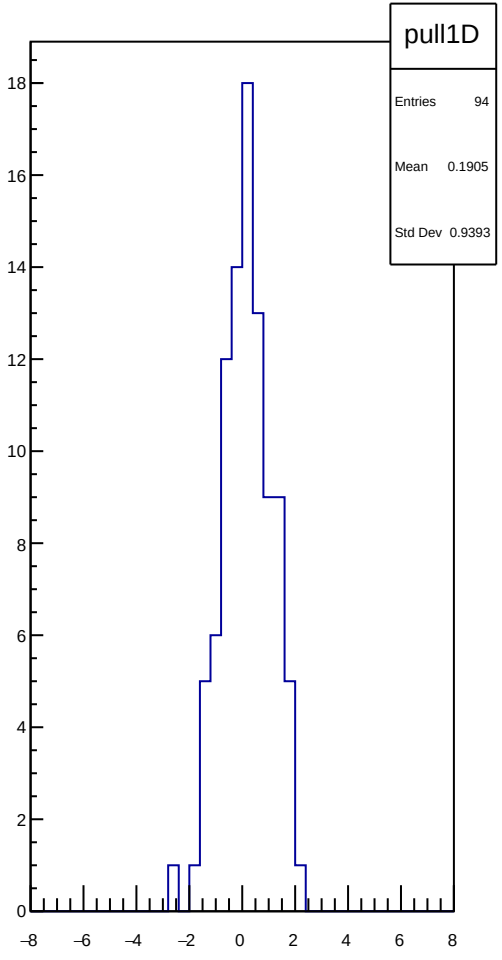

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 93
p0 39.59 ± 0.03165
120
100
80
60
40
20

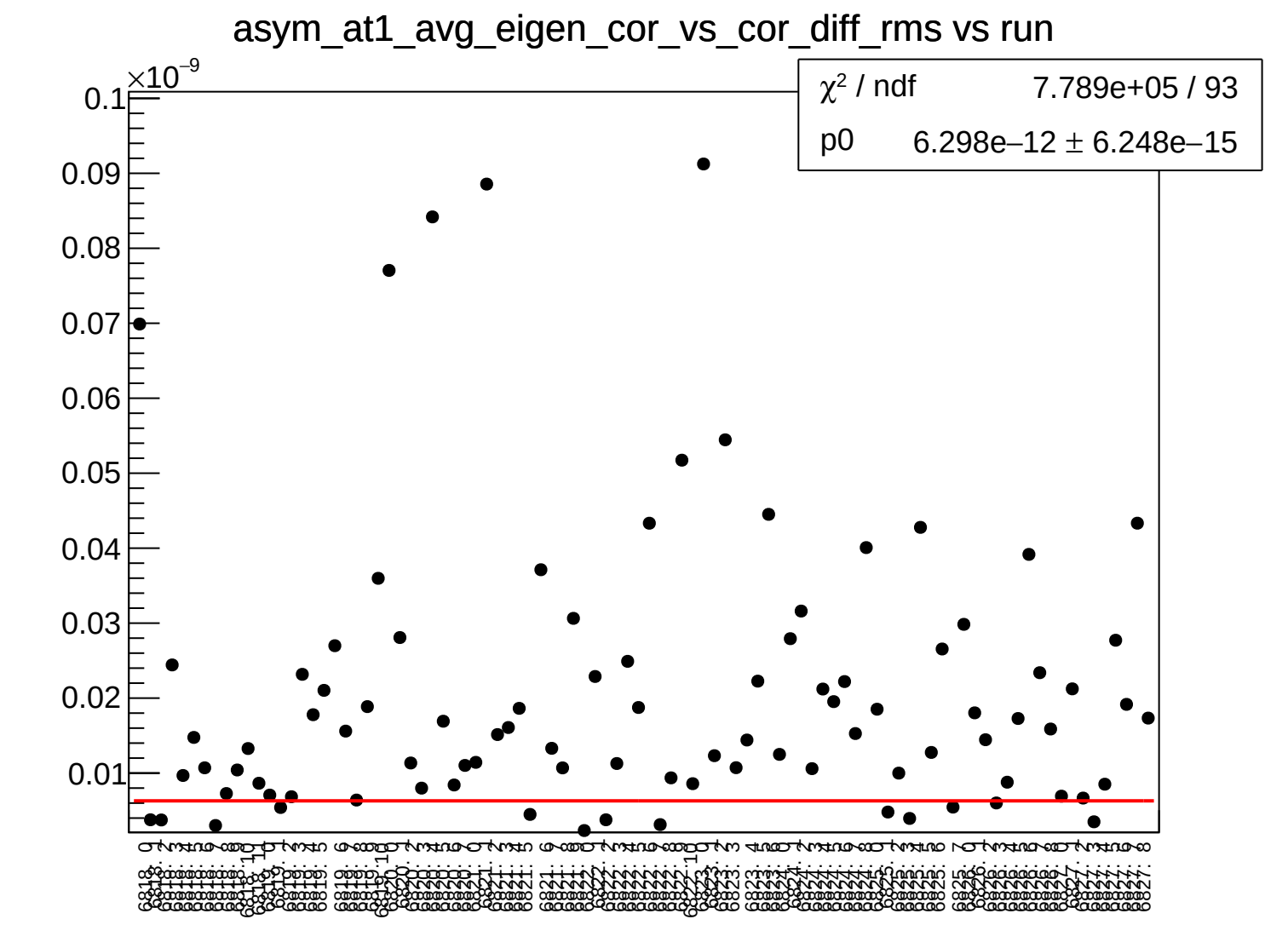

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.62 / 93
p0 0.04148 ± 0.04476
pull
Entries 94
Mean −323.6
Std Dev 0

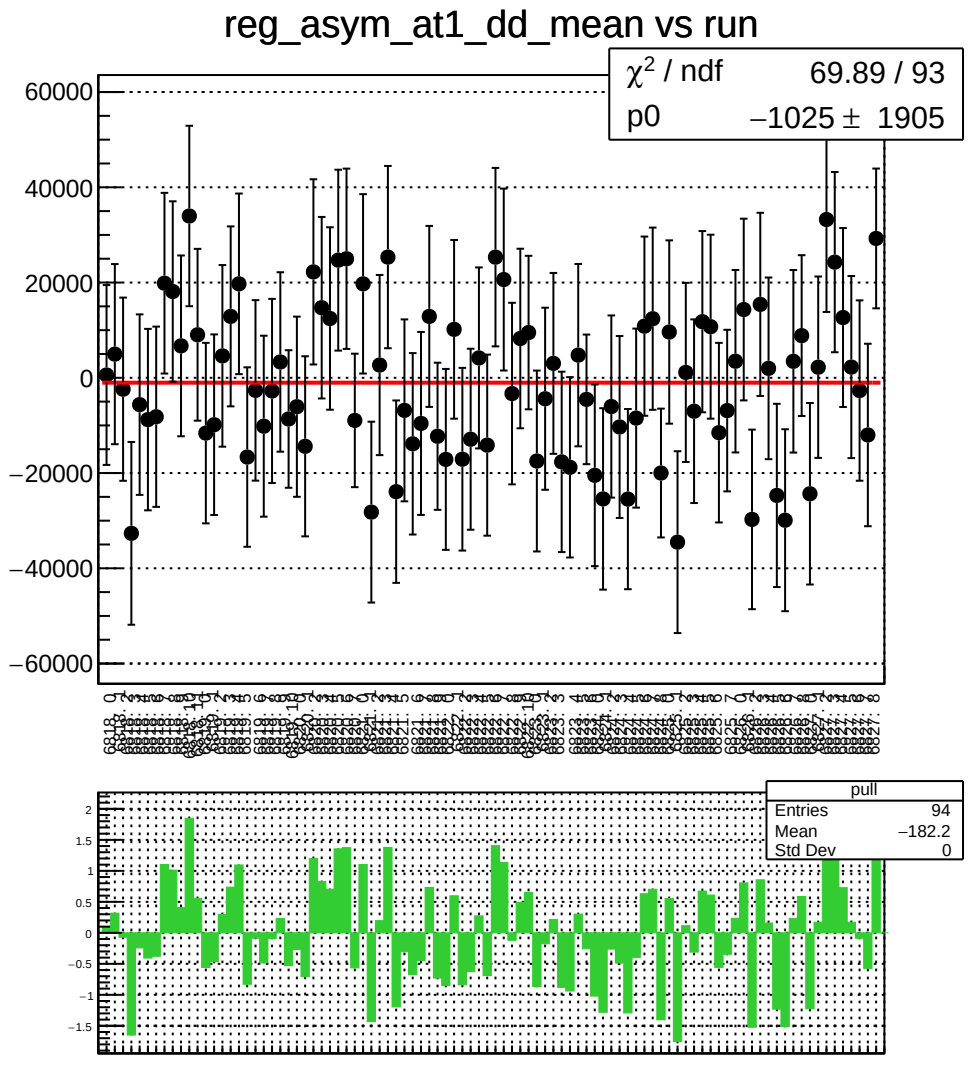

pull1D
Entries 94
Mean −0.006334
Std Dev 0.9709

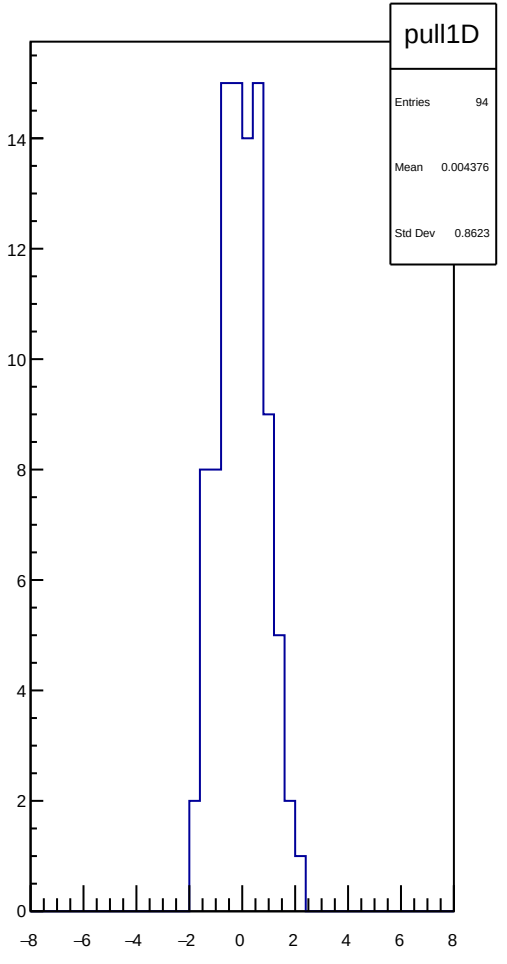

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 93
p0 39.59 ± 0.03165
120
100
80
60
40
20

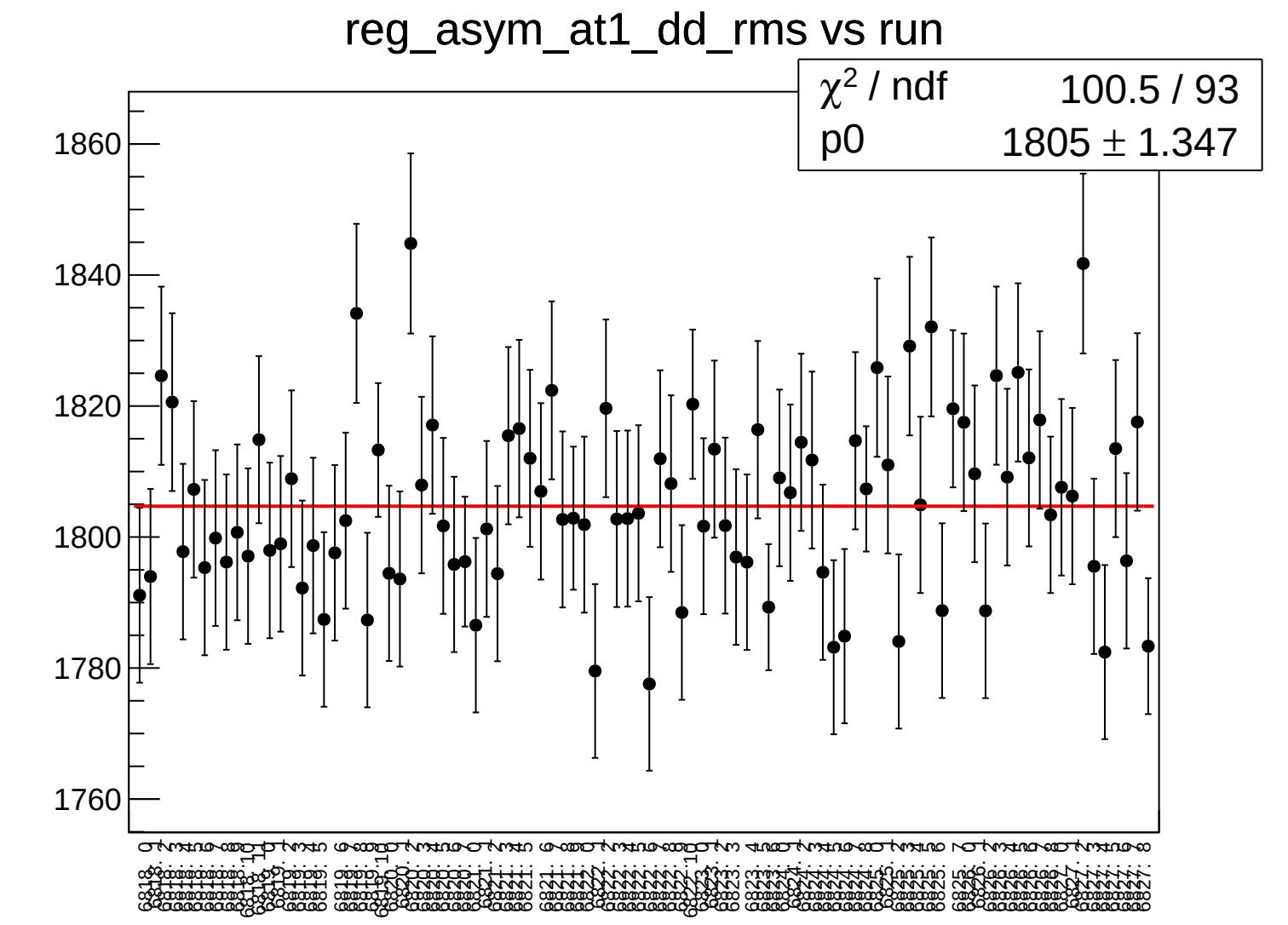

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.35 / 93
p0 7.937e−15 ± 8.836e−15
pull
Entries 94
Mean 53.07
Std Dev 31.1

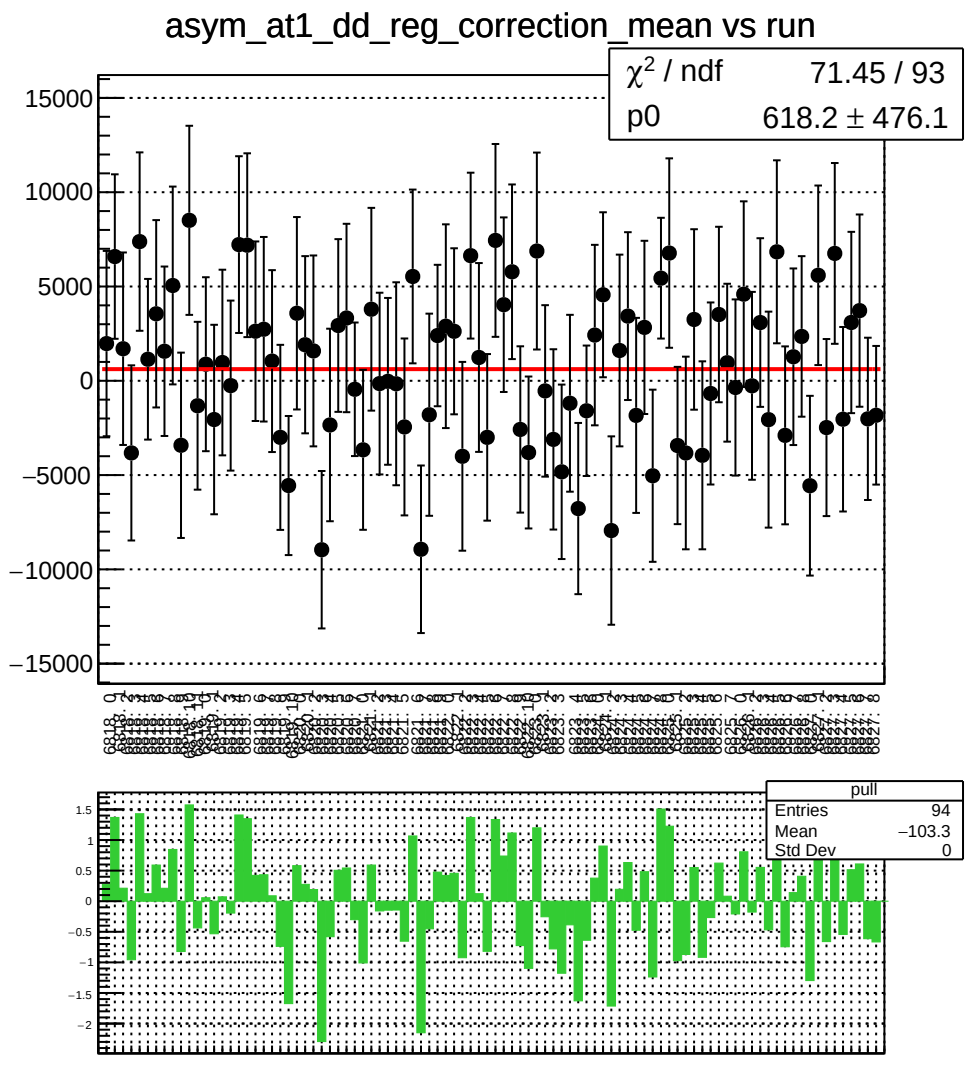

pull1D
Entries 94
Mean 0.1905
Std Dev 0.9393

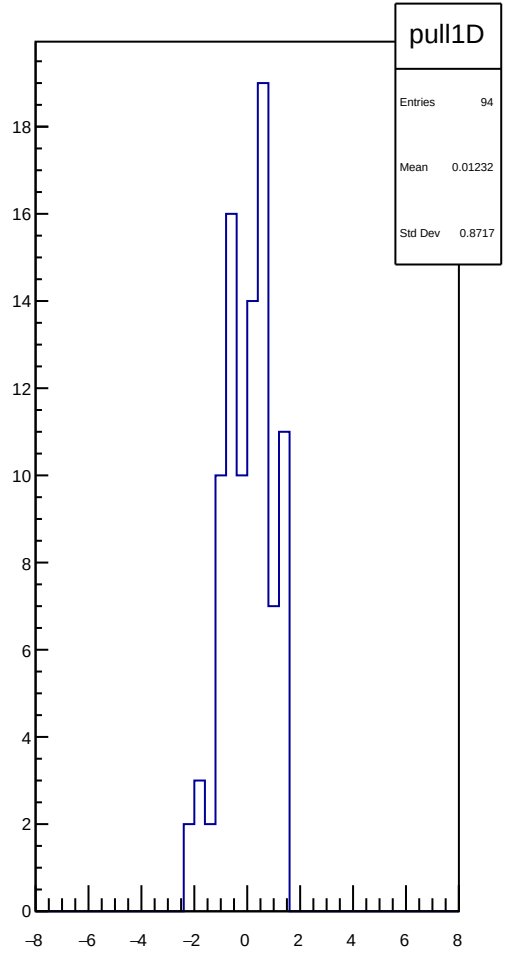

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 7.789e+05 / 93
p0 6.298e−12 ± 6.248e−15

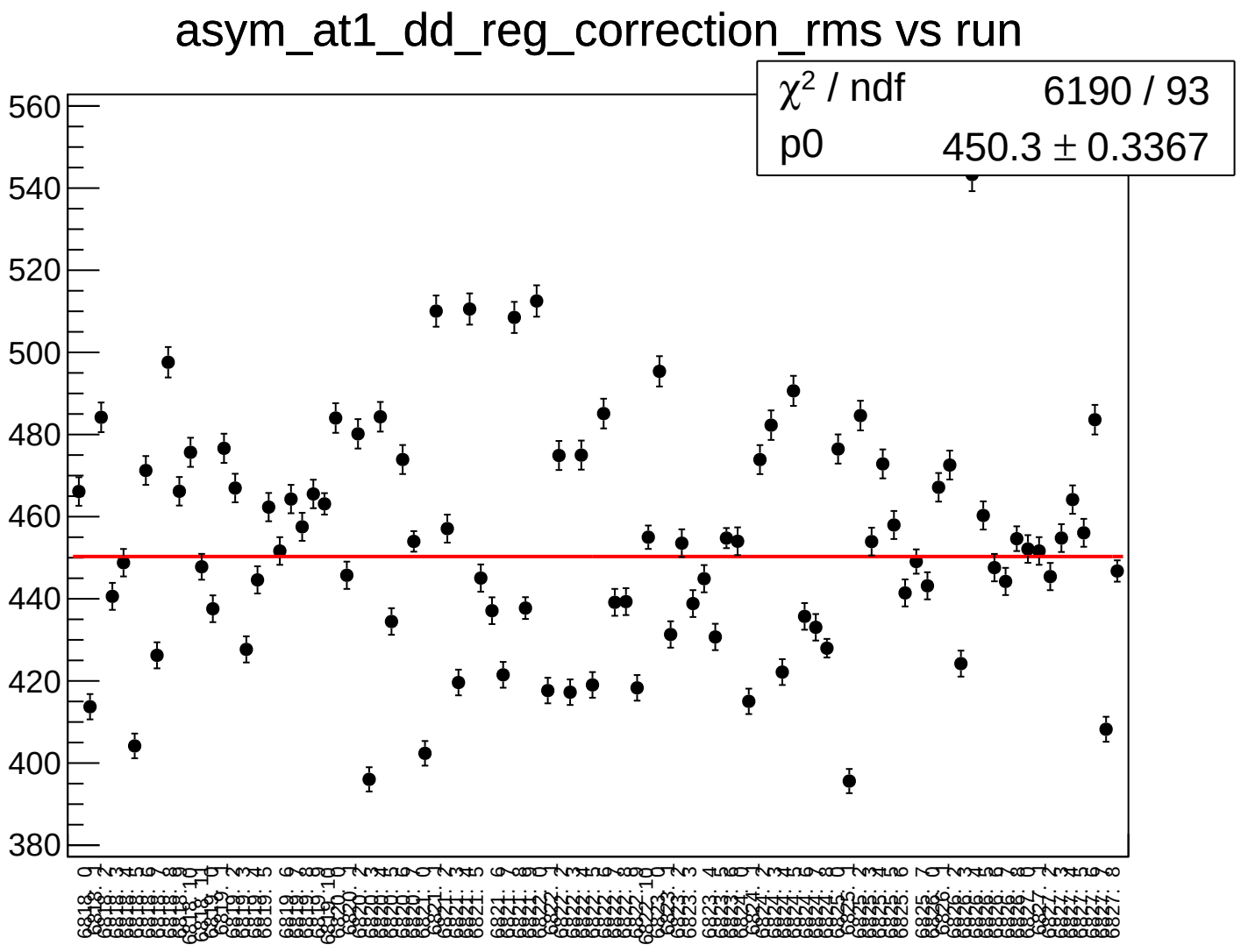

reg_asym_at1_dd_mean vs run
χ² / ndf 69.89 / 93
p0 −1025 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −182.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

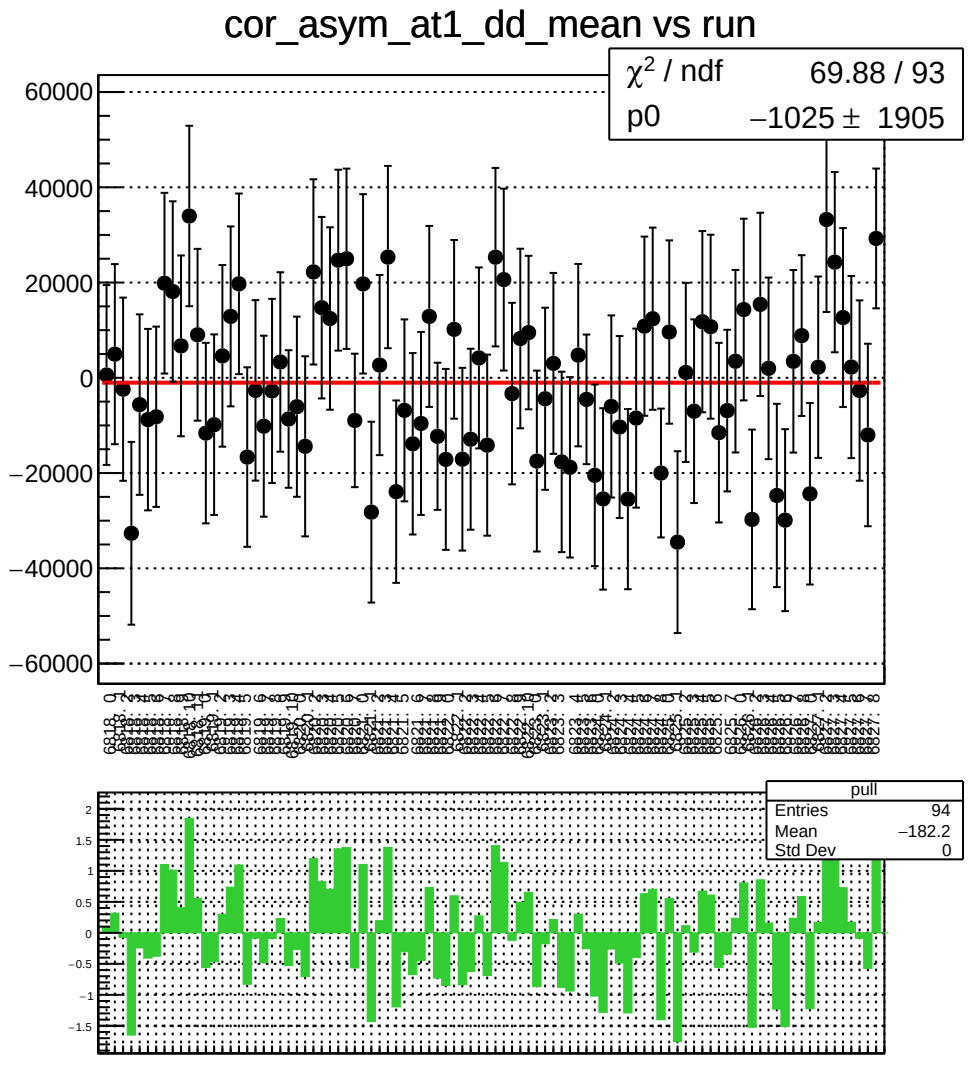

pull1D
Entries 94
Mean 0.004376
Std Dev 0.8623
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

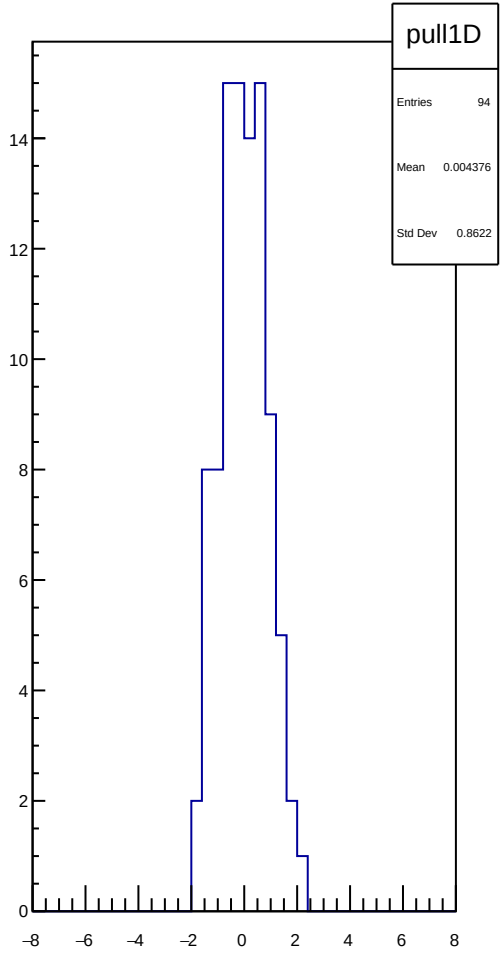

reg_asym_at1_dd_rms vs run
χ² / ndf 100.5 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

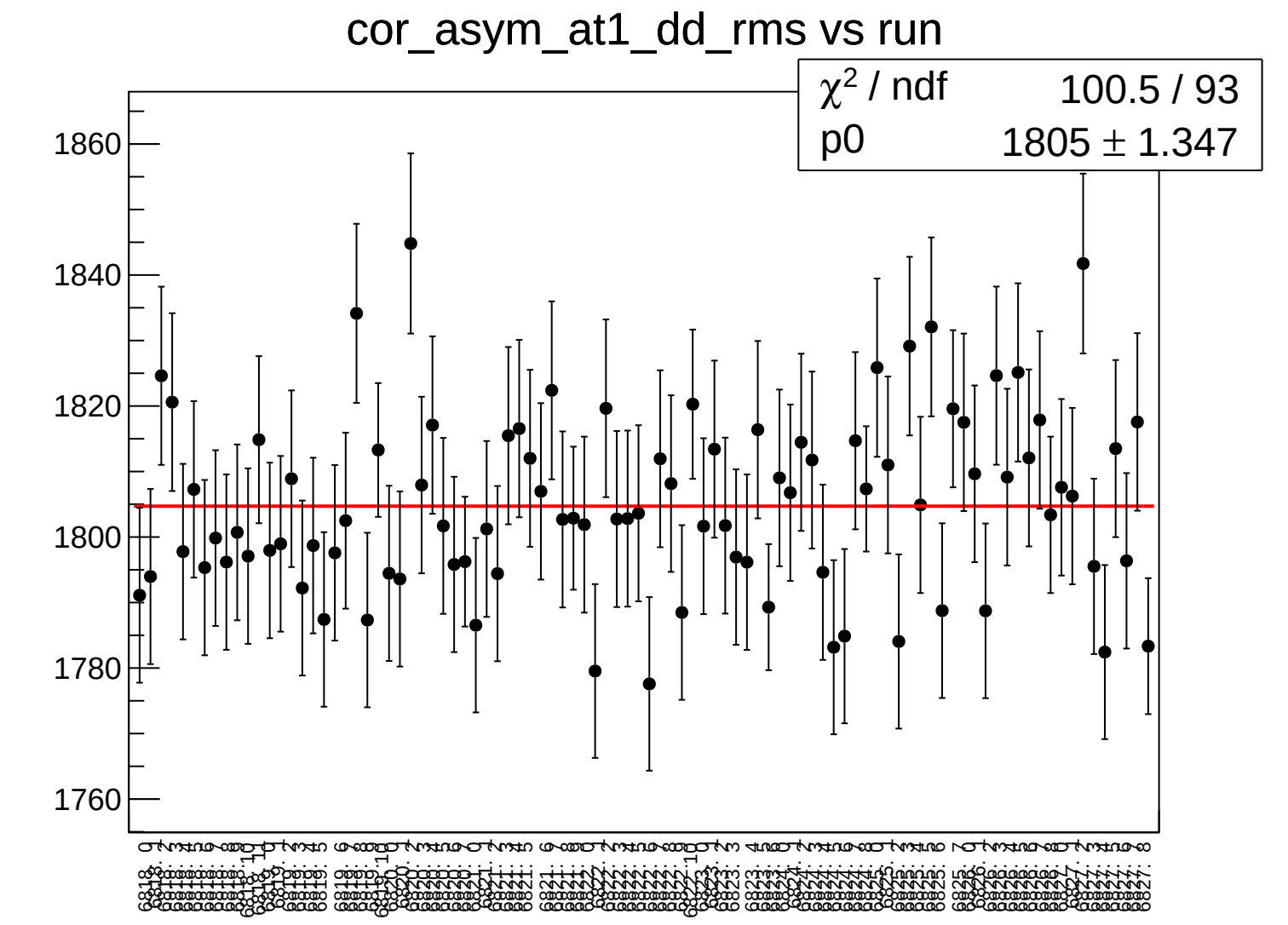

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 71.45 / 93
p0 618.2 ± 476.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −103.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

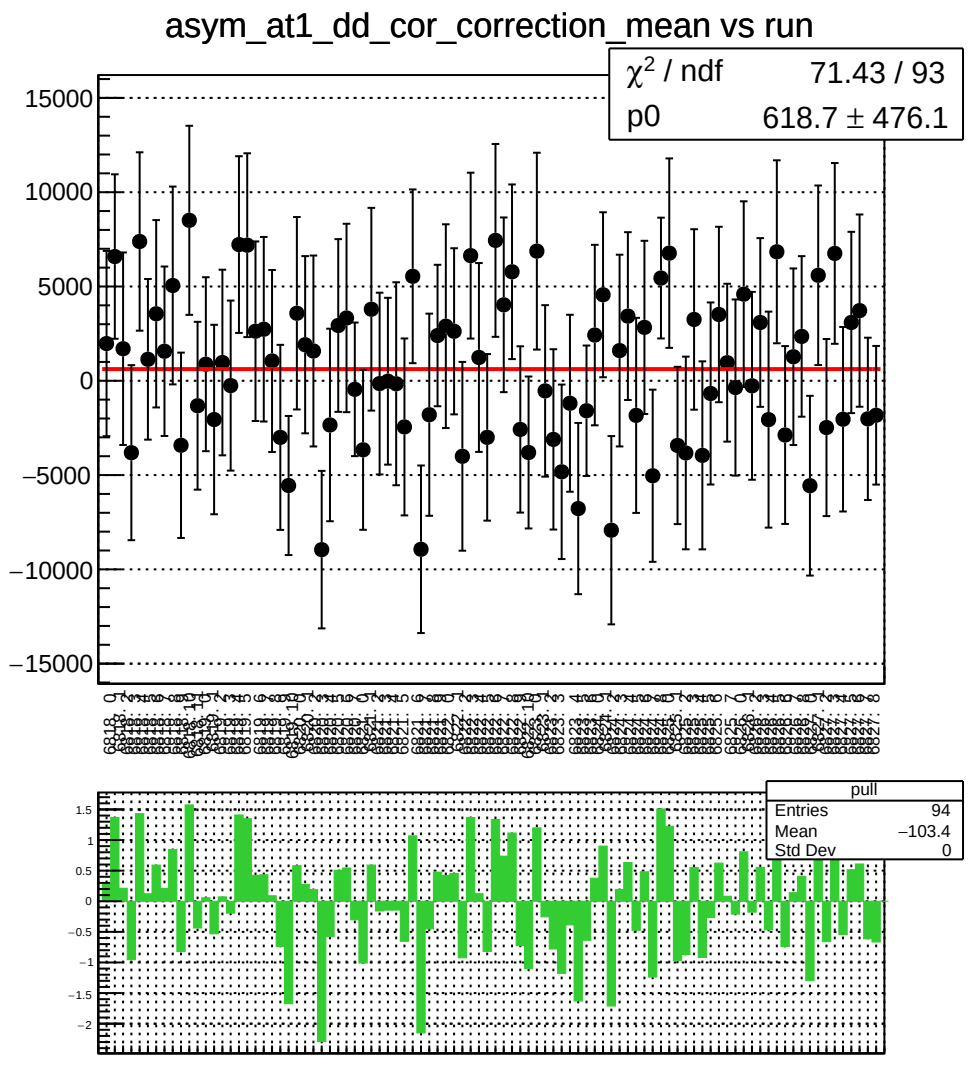

pull1D
Entries 94
Mean 0.01232
Std Dev 0.8717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

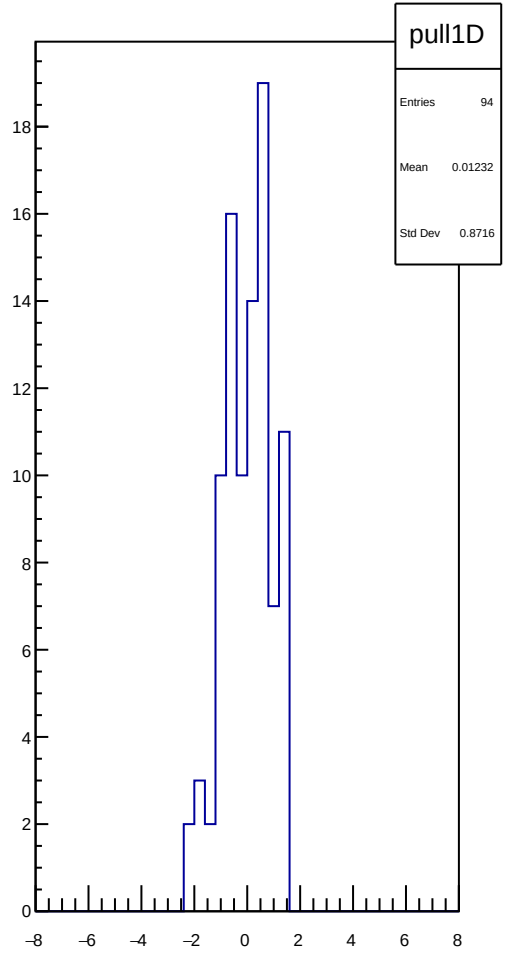

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 6190 / 93
p0 450.3 ± 0.3367
560
540
520
500
480
460
440
420
400
380

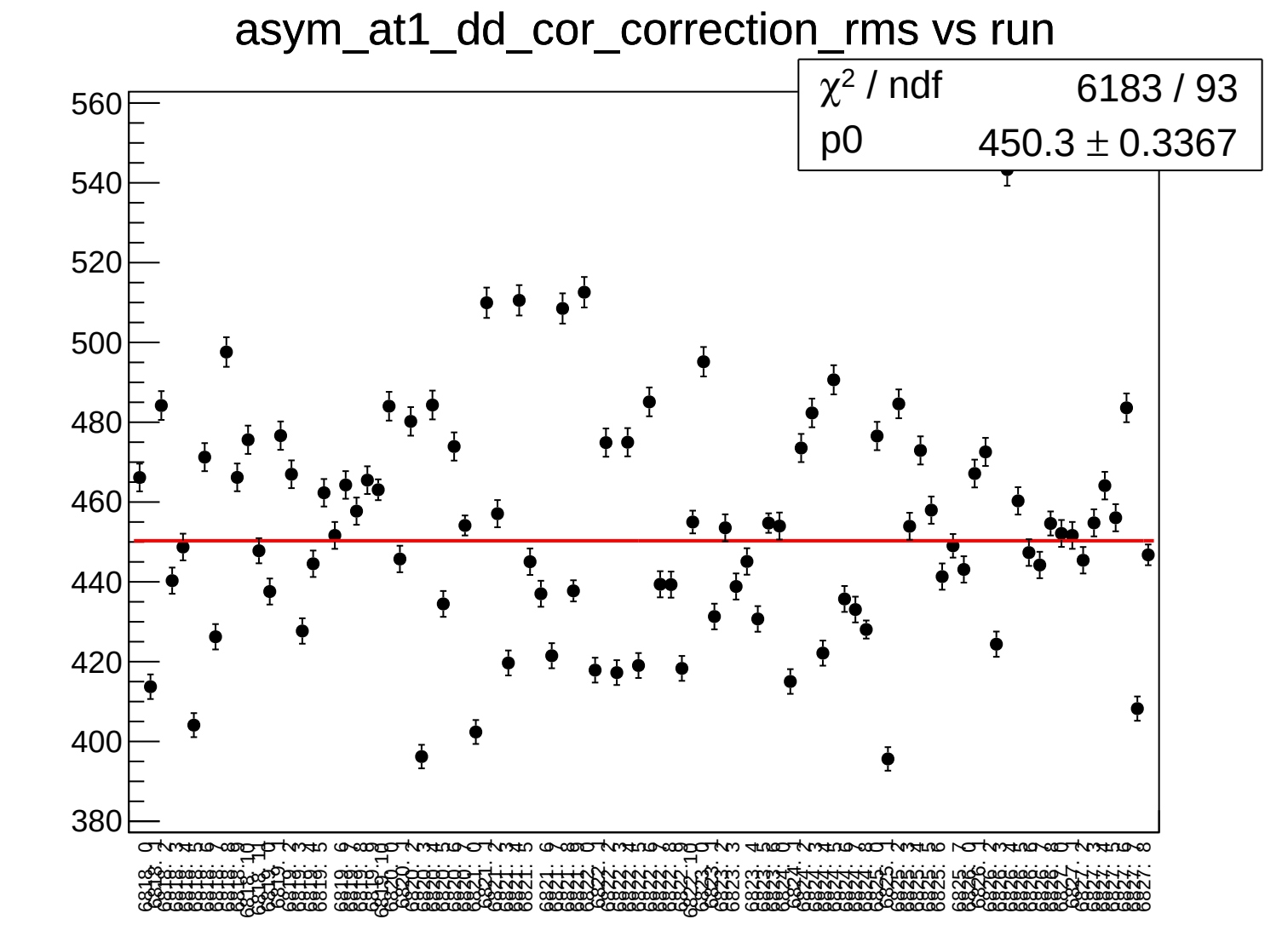

cor_asym_at1_dd_mean vs run
χ² / ndf 69.88 / 93
p0 −1025 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −182.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

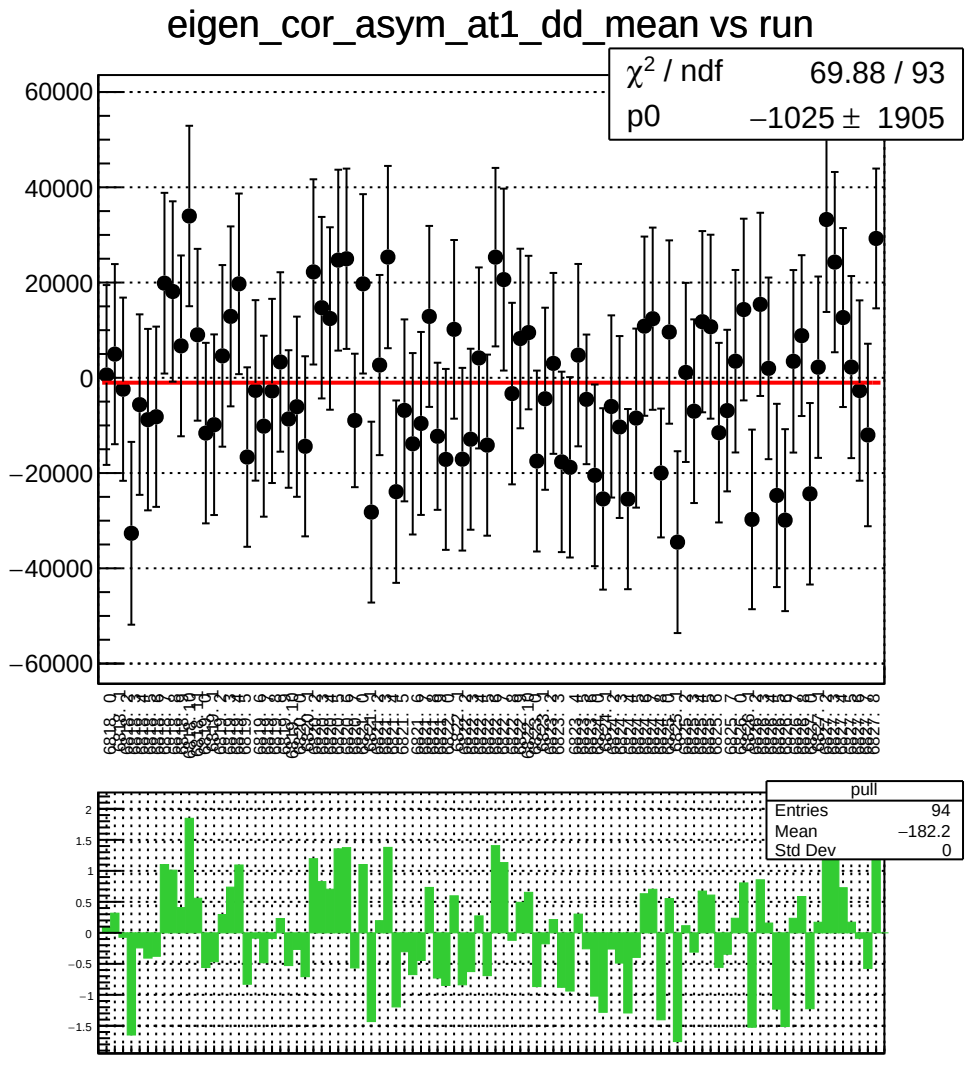

pull1D
Entries 94
Mean 0.004376
Std Dev 0.8622
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

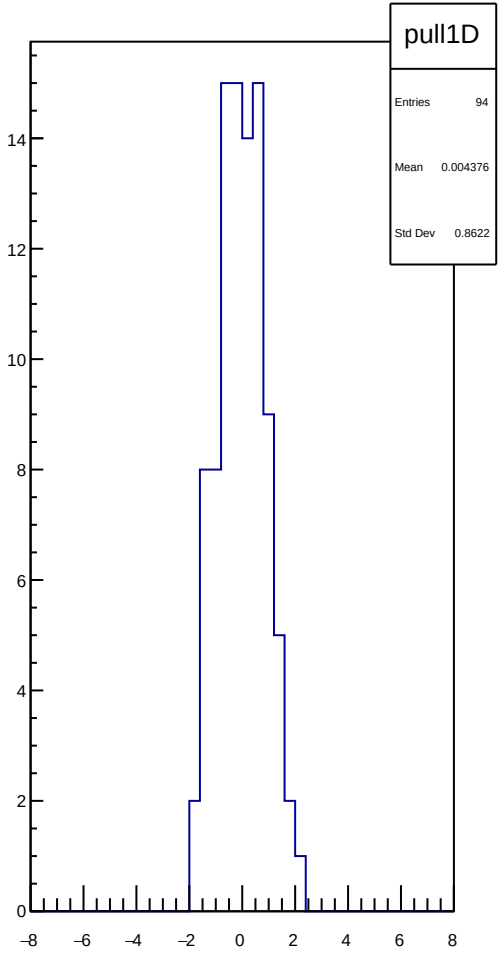

cor_asym_at1_dd_rms vs run
χ² / ndf 100.5 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

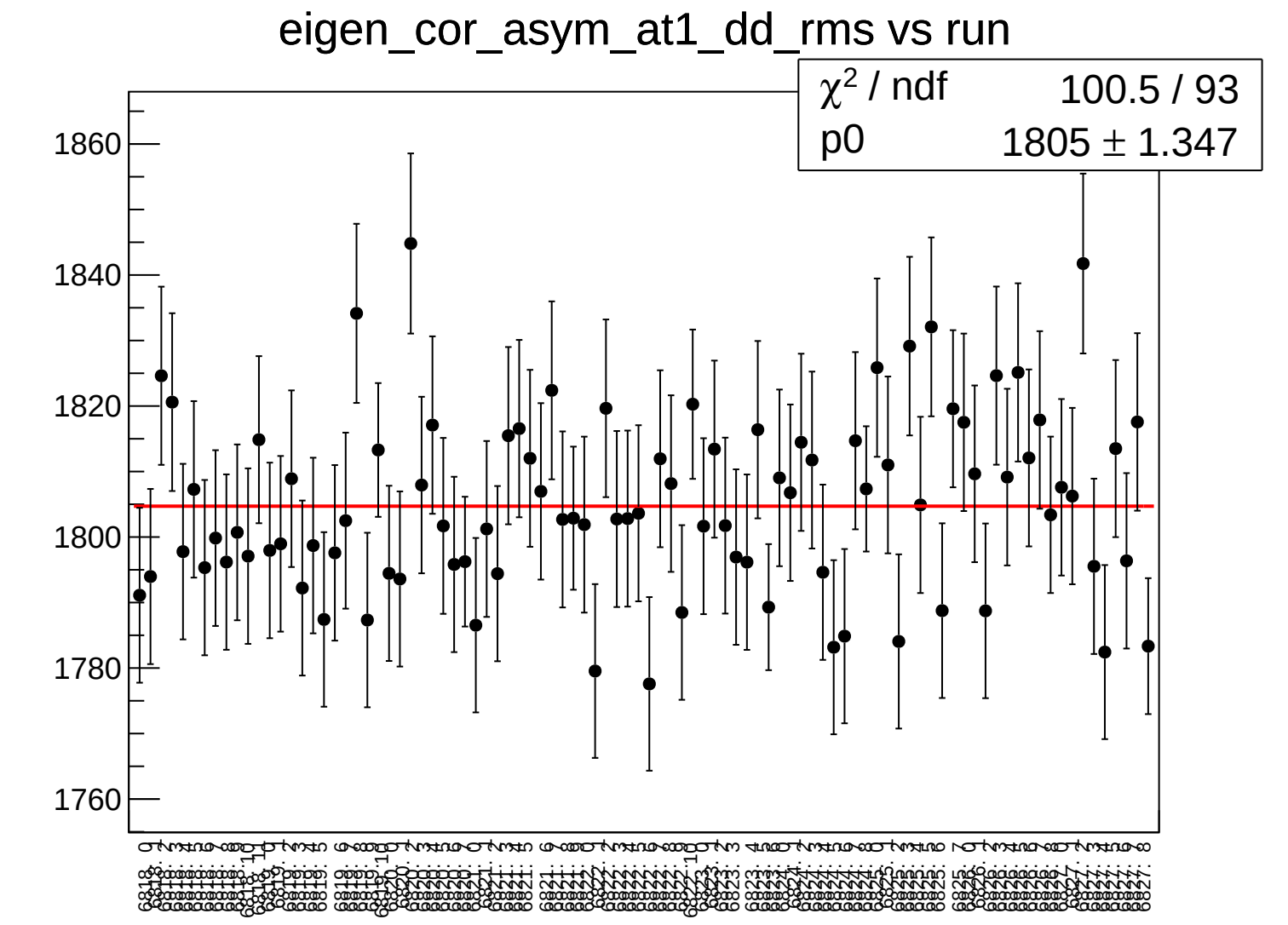

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 71.43 / 93
p0 618.7 ± 476.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

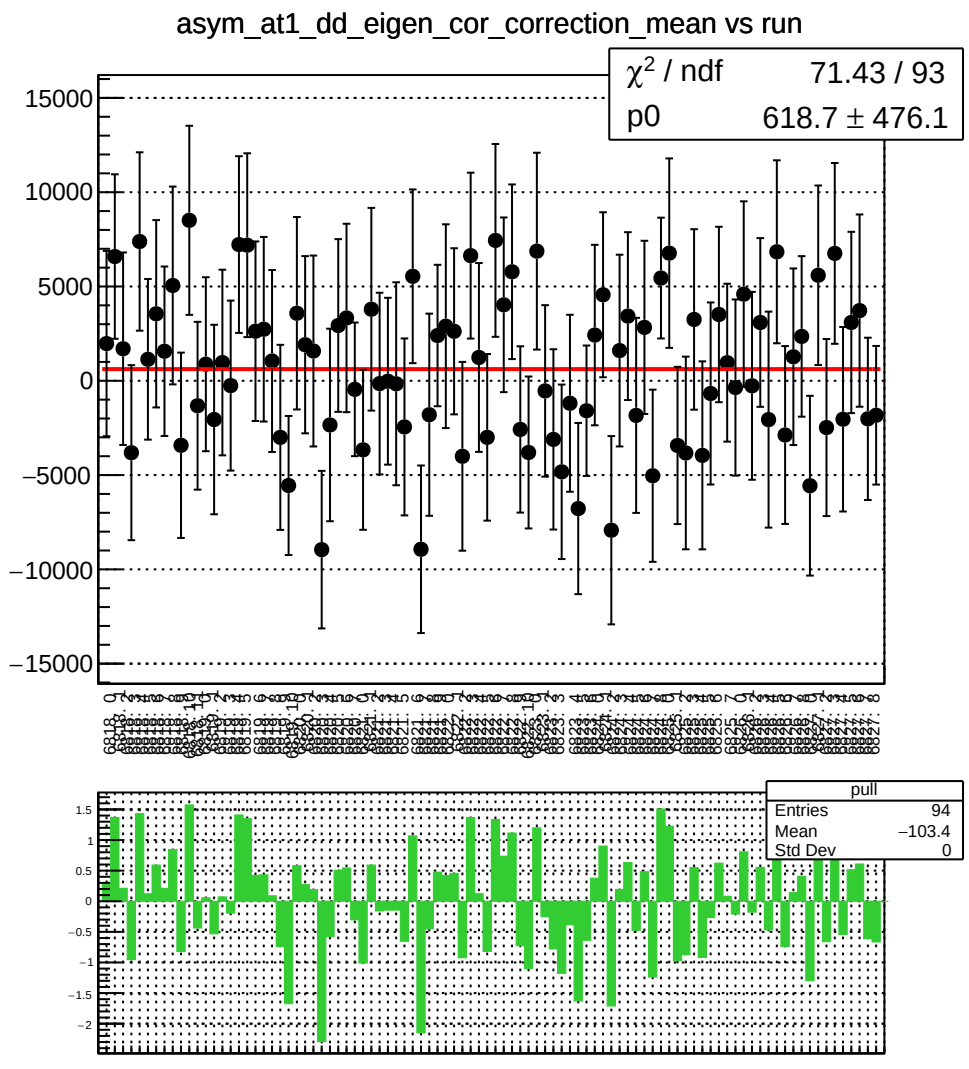

pull1D
Entries 94
Mean 0.01232
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

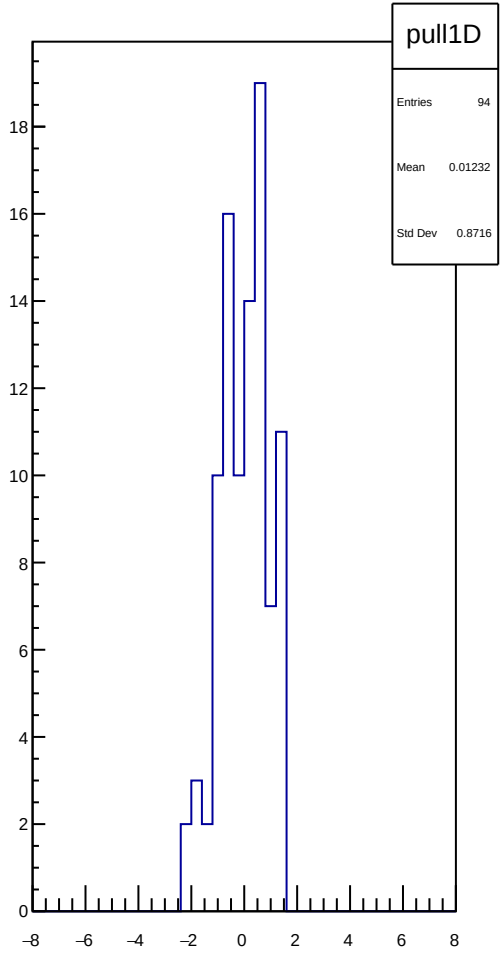

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 6183 / 93
p0 450.3 ± 0.3367
560
540
520
500
480
460
440
420
400
380

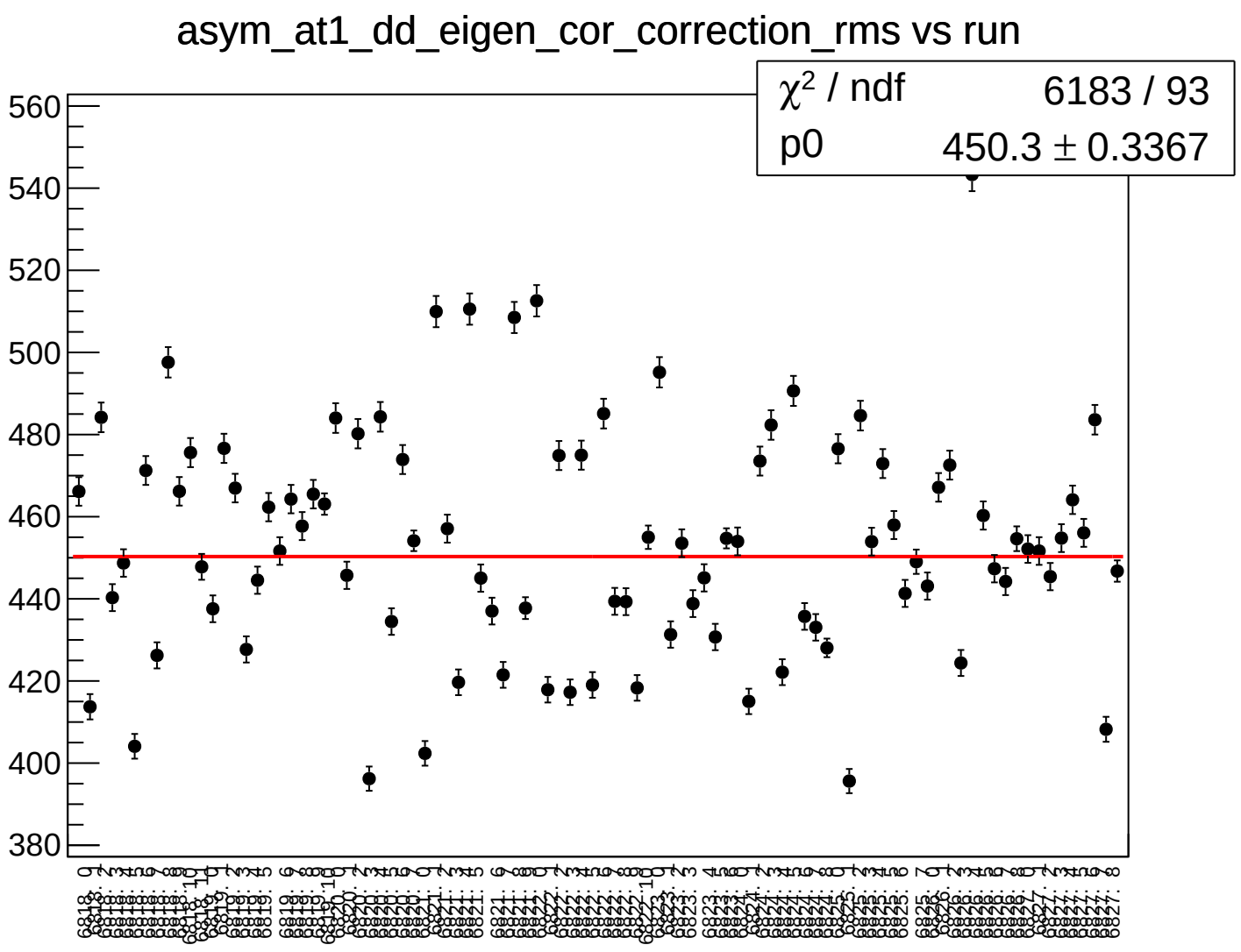

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 69.88 / 93
p0 −1025 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −182.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

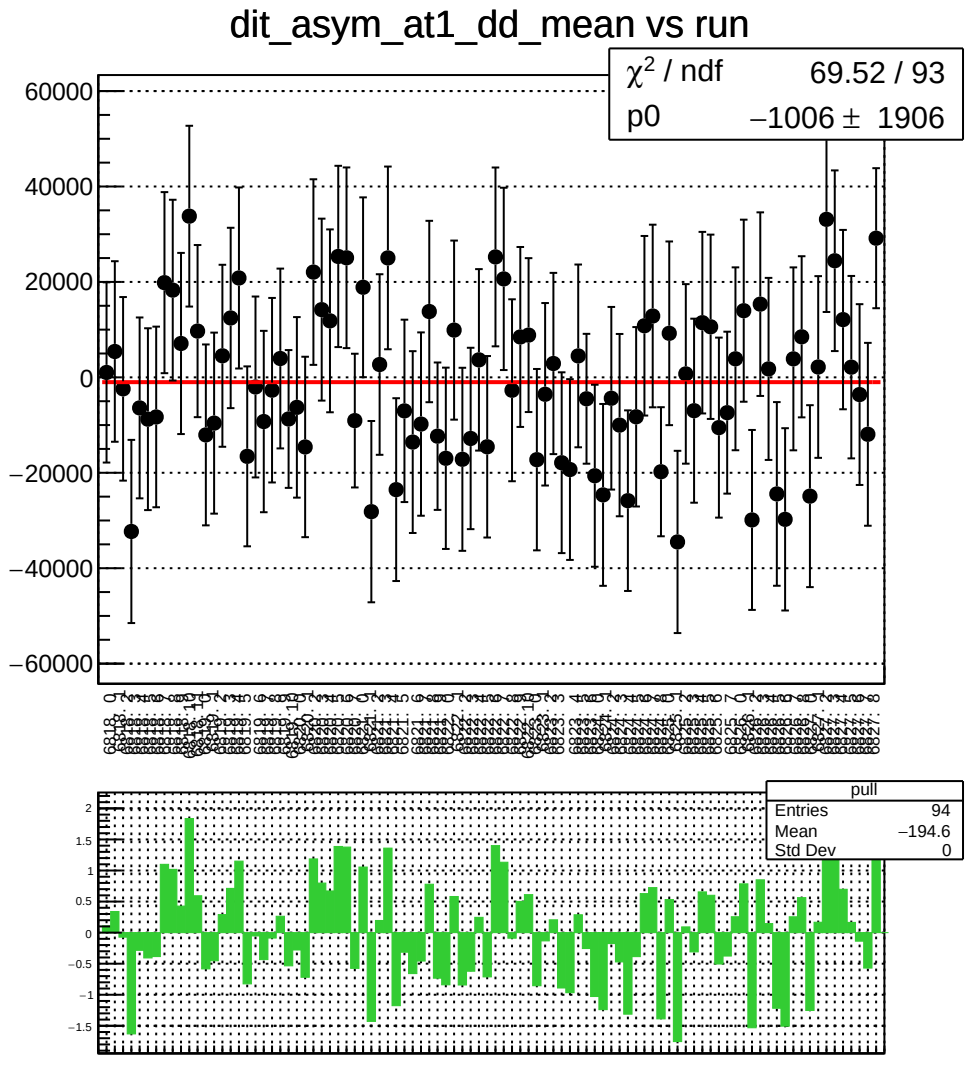

pull1D
Entries 94
Mean 0.004376
Std Dev 0.8622
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

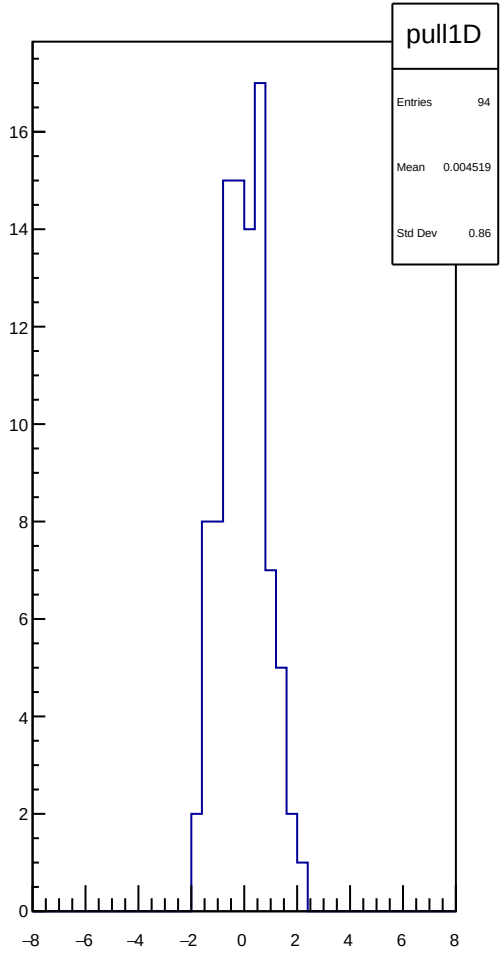

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 100.5 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

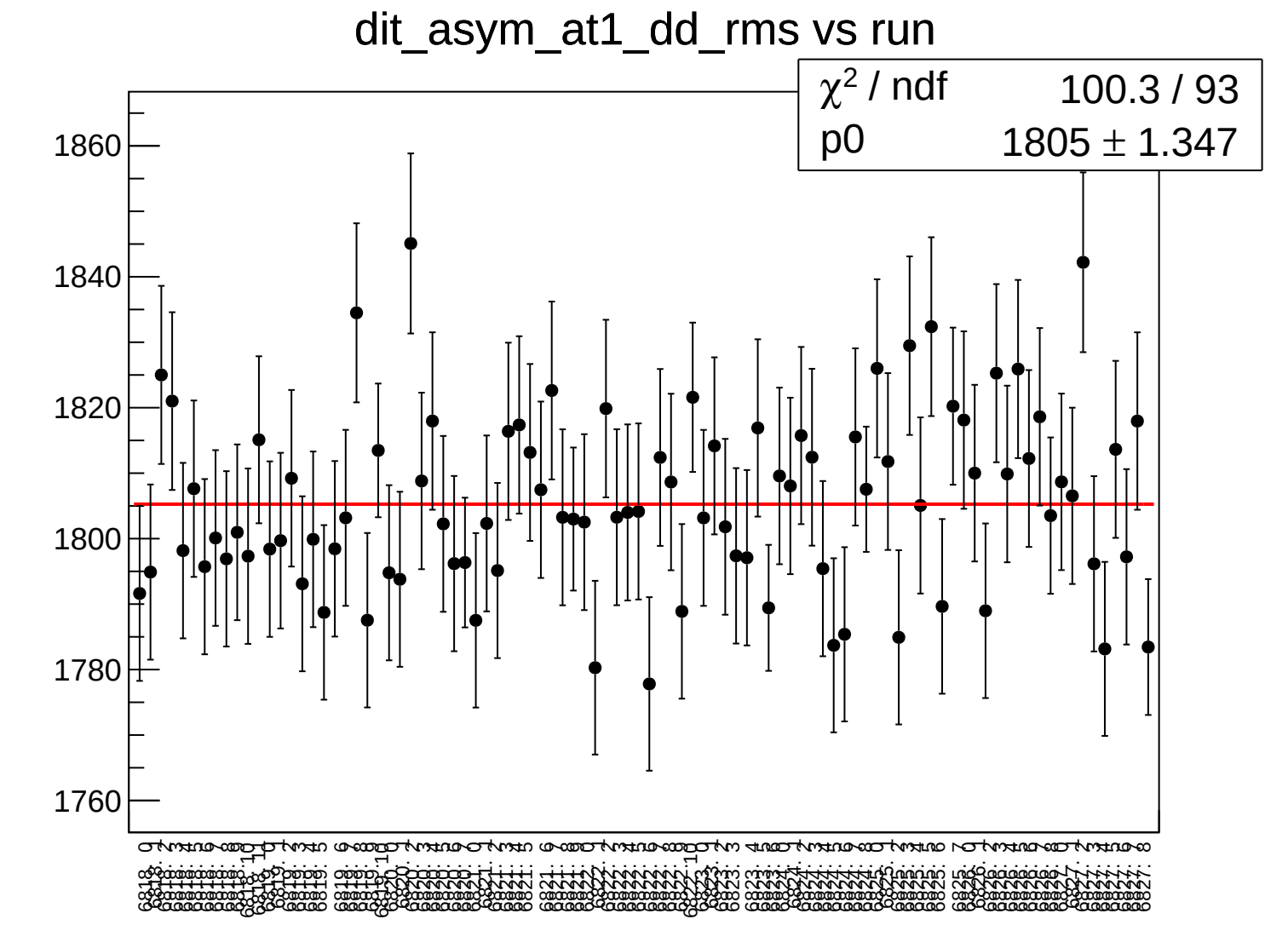

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.43 / 93
p0 618.7 ± 476.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −103.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

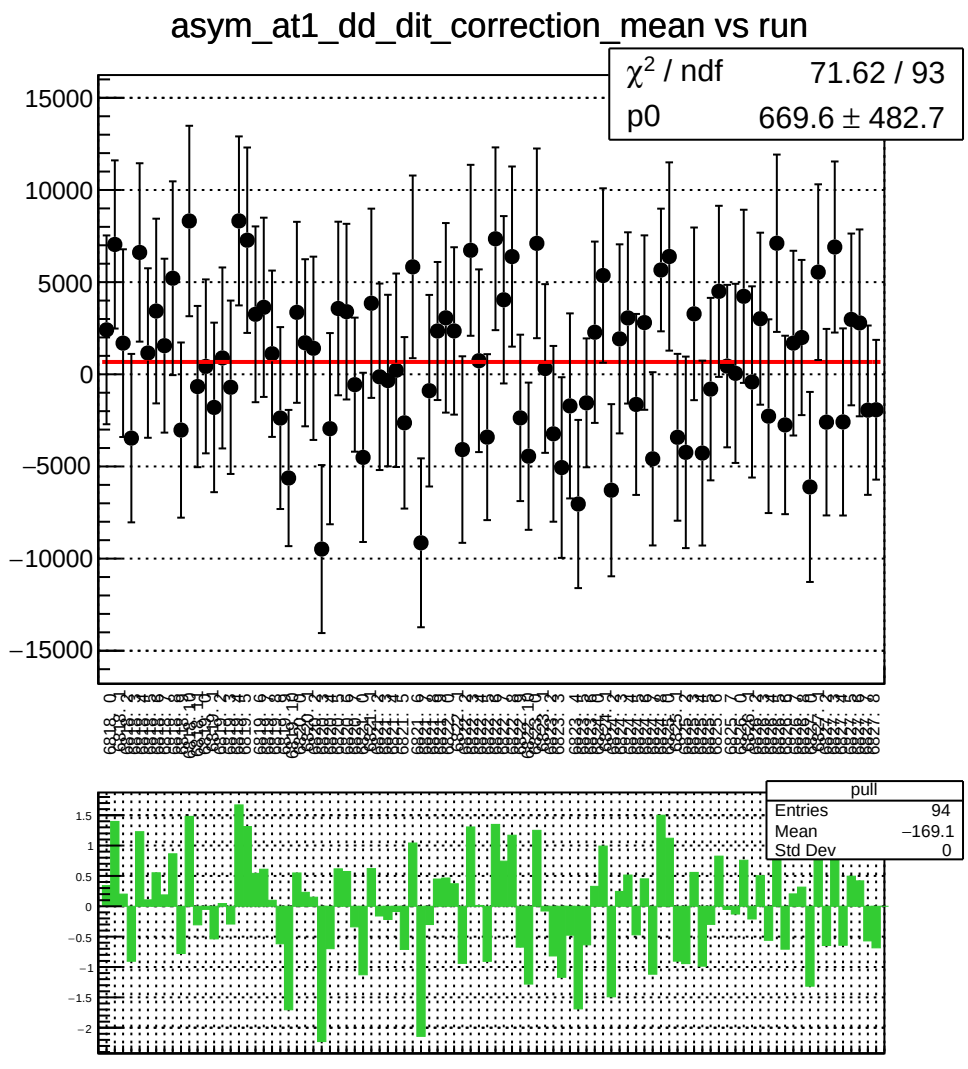

pull1D
Entries 94
Mean 0.01232
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

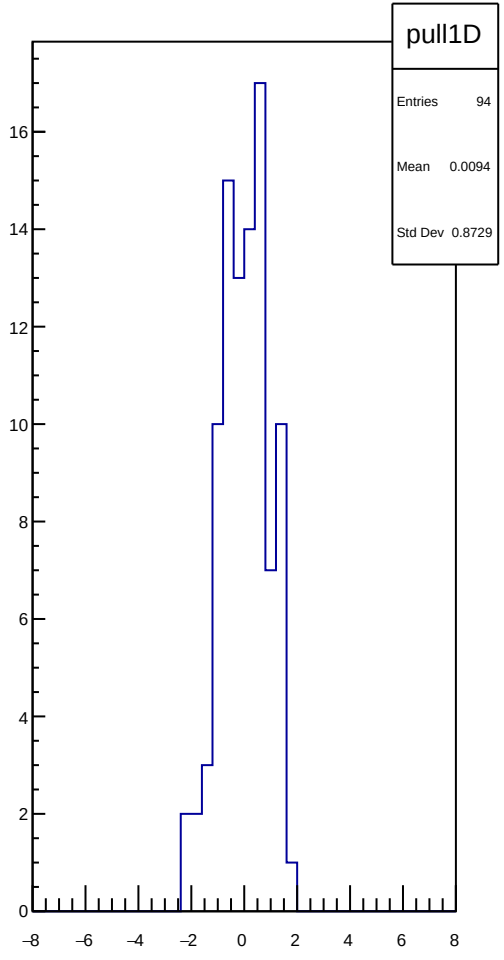

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6183 / 93
p0 450.3 ± 0.3367
560
540
520
500
480
460
440
420
400
380

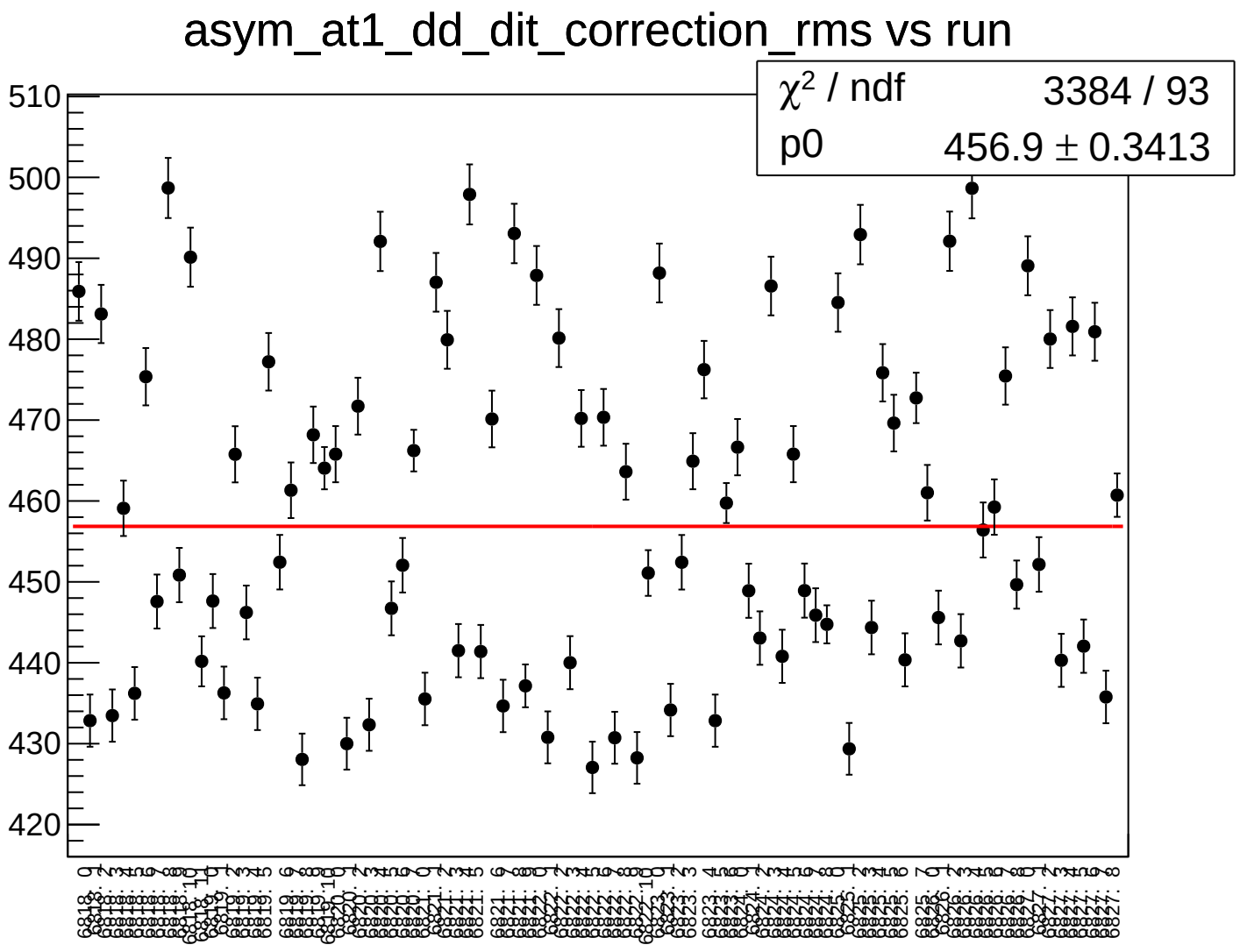

dit_asym_at1_dd_mean vs run
χ² / ndf 69.52 / 93
p0 −1006 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −194.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

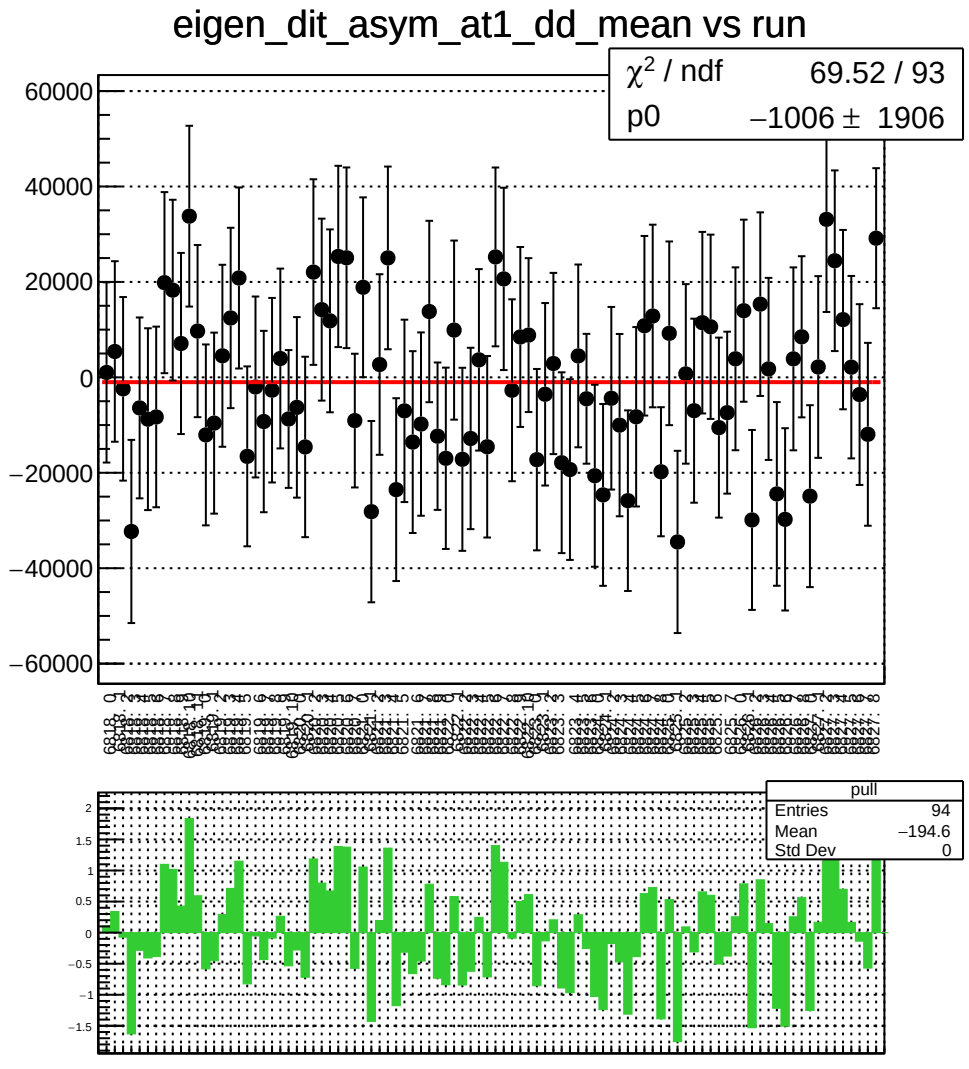

pull1D
Entries 94
Mean 0.004519
Std Dev 0.86
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

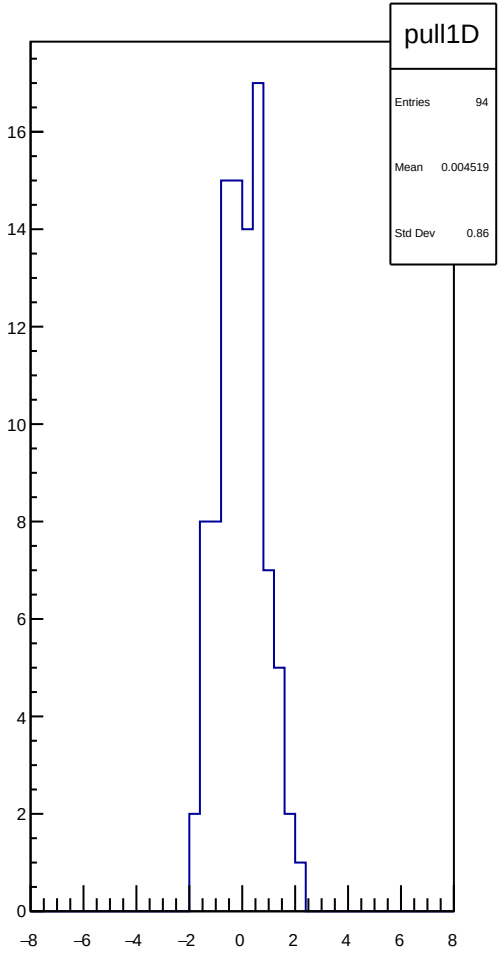

dit_asym_at1_dd_rms vs run
χ² / ndf 100.3 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

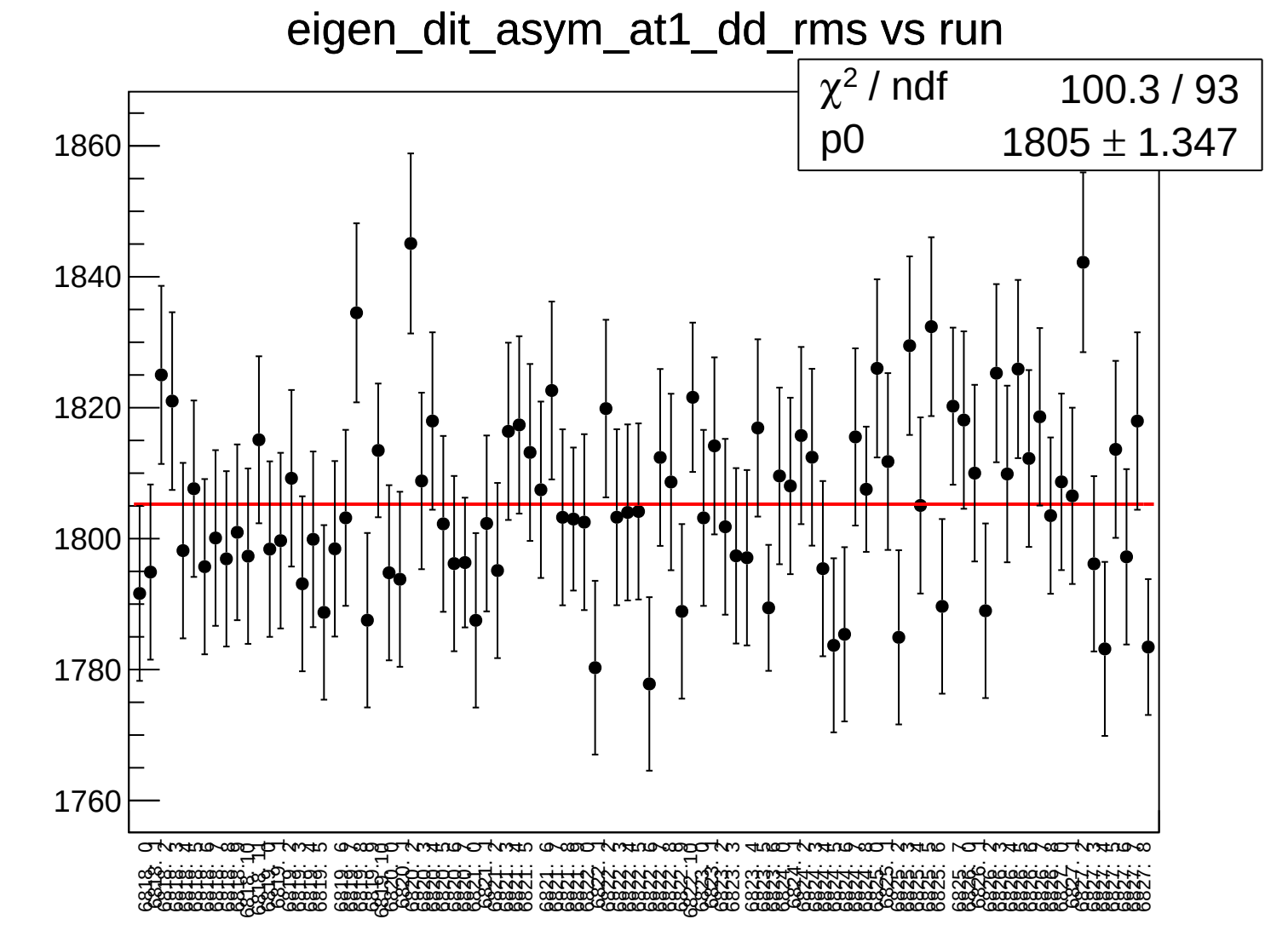

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 71.62 / 93
p0 669.6 ± 482.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −169.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

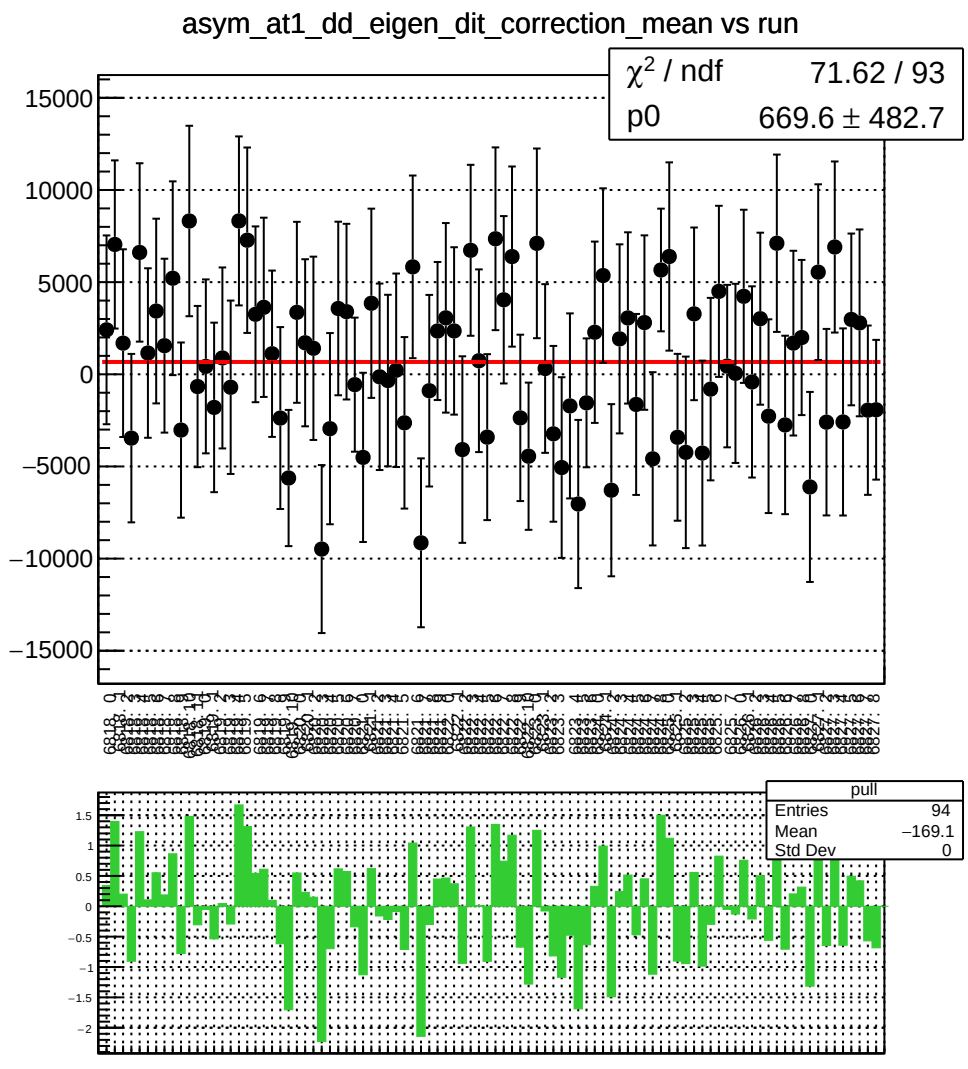

pull1D
Entries 94
Mean 0.0094
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

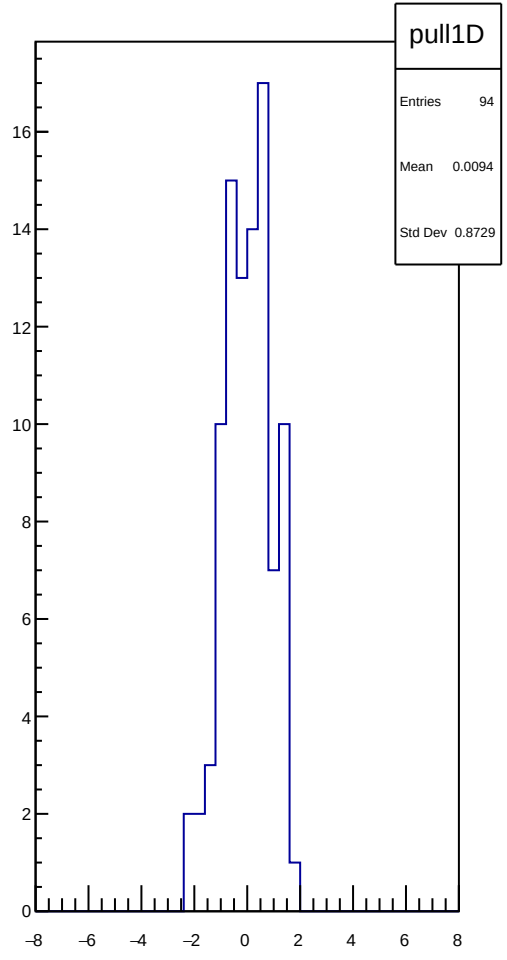

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3384 / 93
p0 456.9 ± 0.3413
510
500
490
480
470
460
450
440
430
420

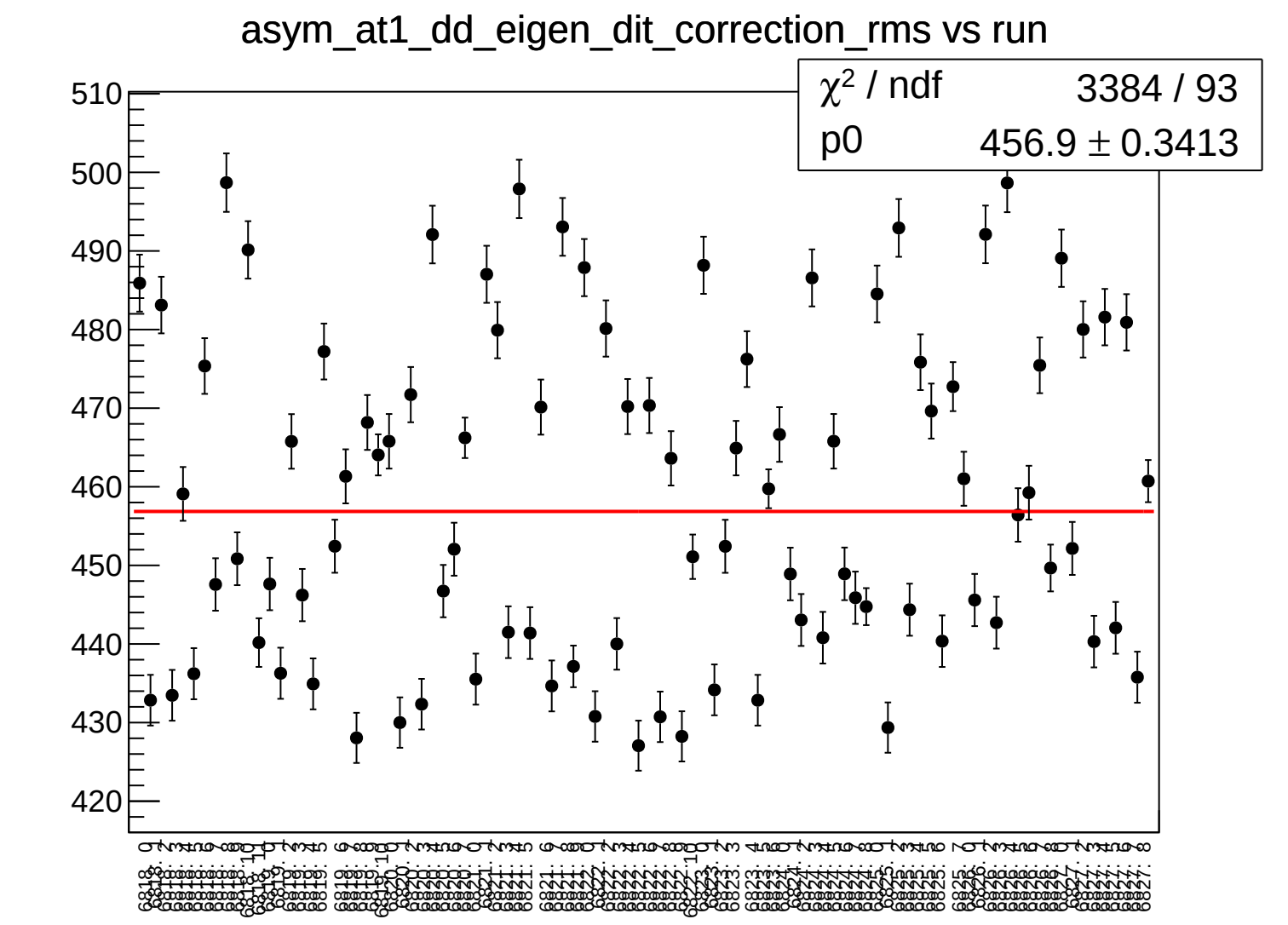

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 69.52 / 93
p0 −1006 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −194.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

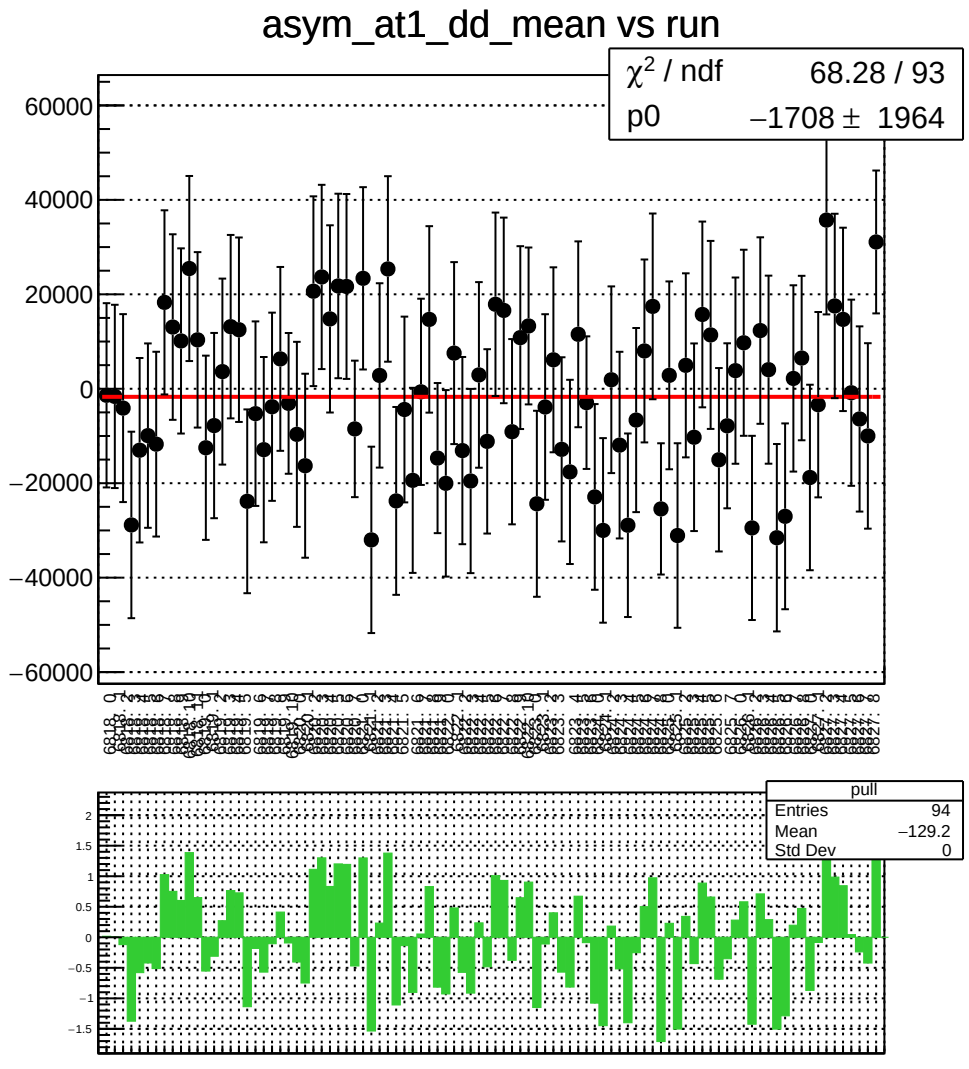

pull1D
Entries 94
Mean 0.004519
Std Dev 0.86
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

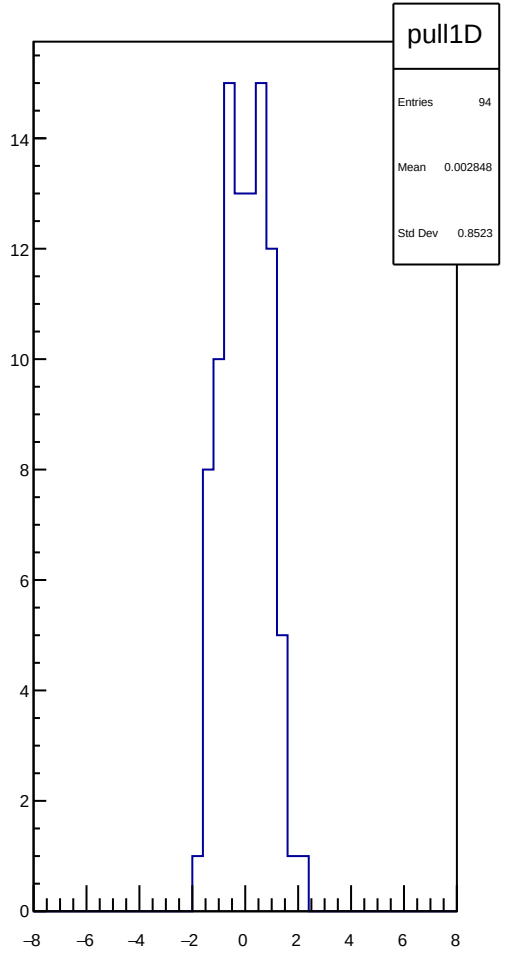

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 100.3 / 93
p0 1805 ± 1.347
1860
1840
1820
1800
1780
1760

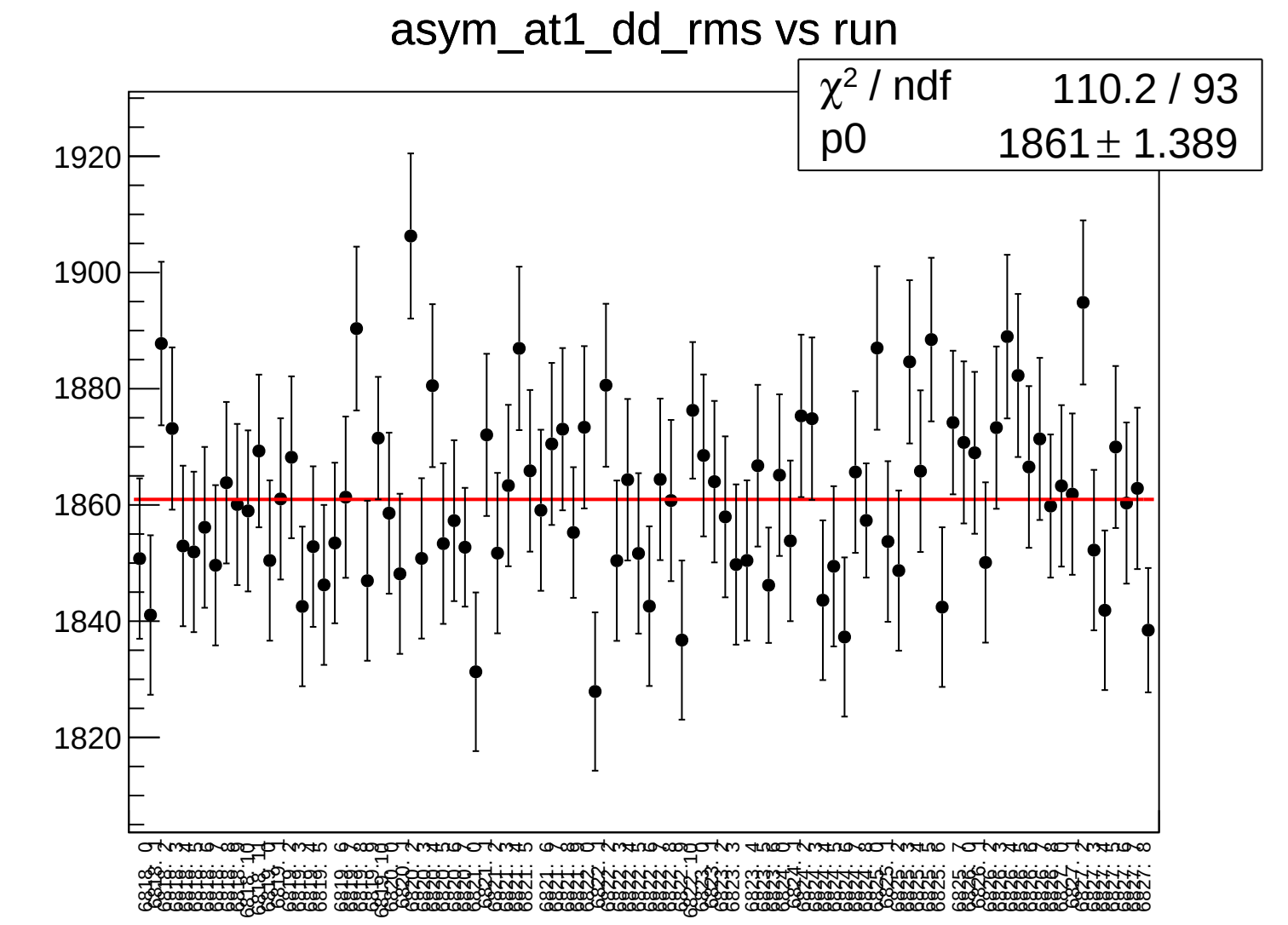

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.62 / 93
p0 669.6 ± 482.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −169.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

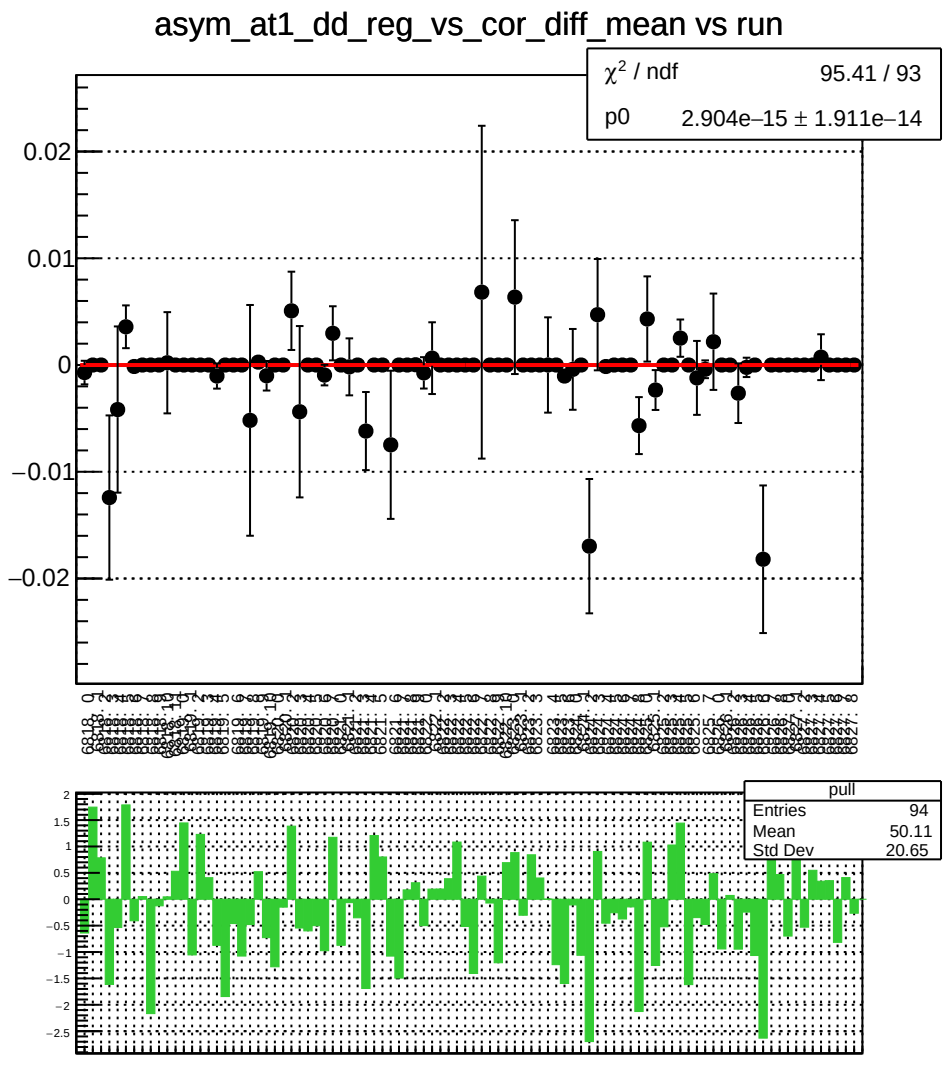

pull1D
Entries 94
Mean 0.0094
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

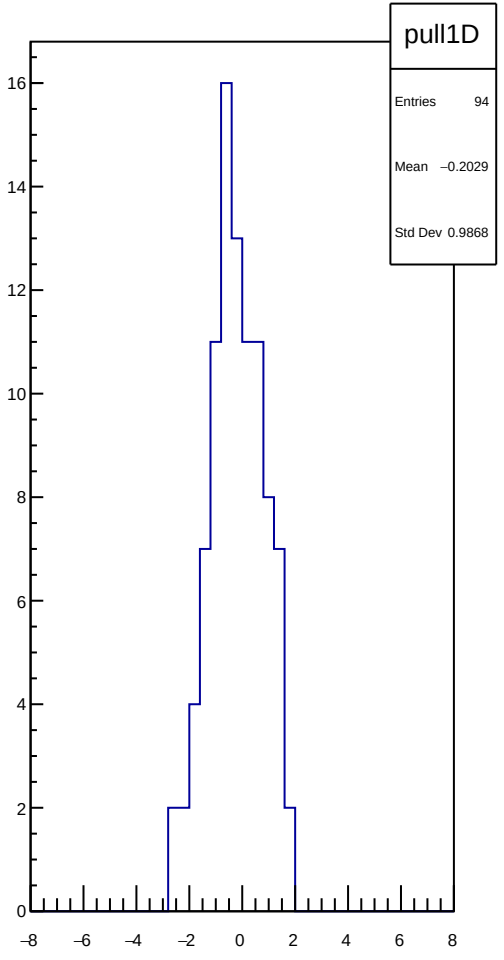

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3384 / 93
p0 456.9 ± 0.3413
510
500
490
480
470
460
450
440
430
420

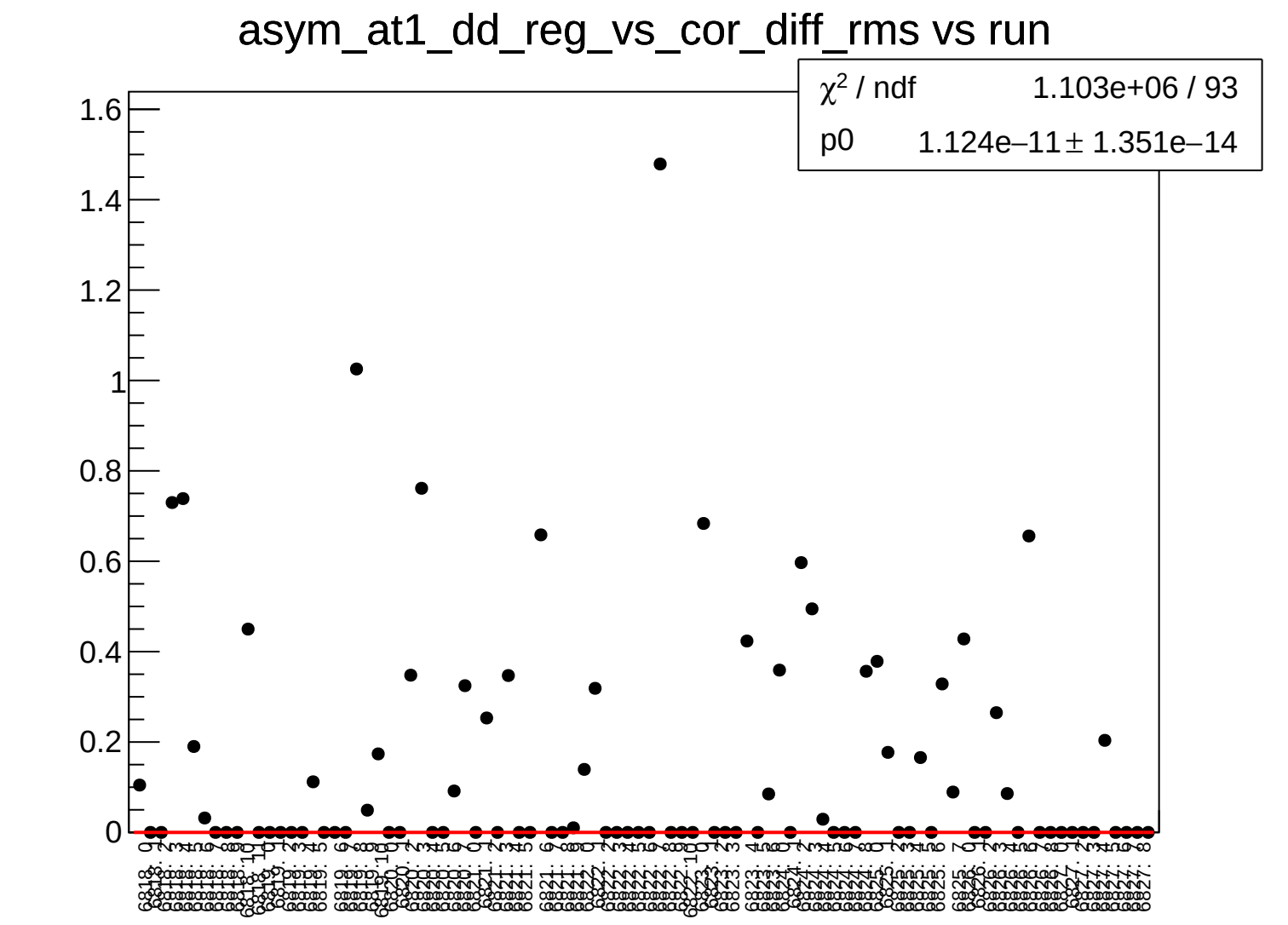

asym_at1_dd_mean vs run
χ² / ndf 68.28 / 93
p0 −1708 ± 1964
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −129.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

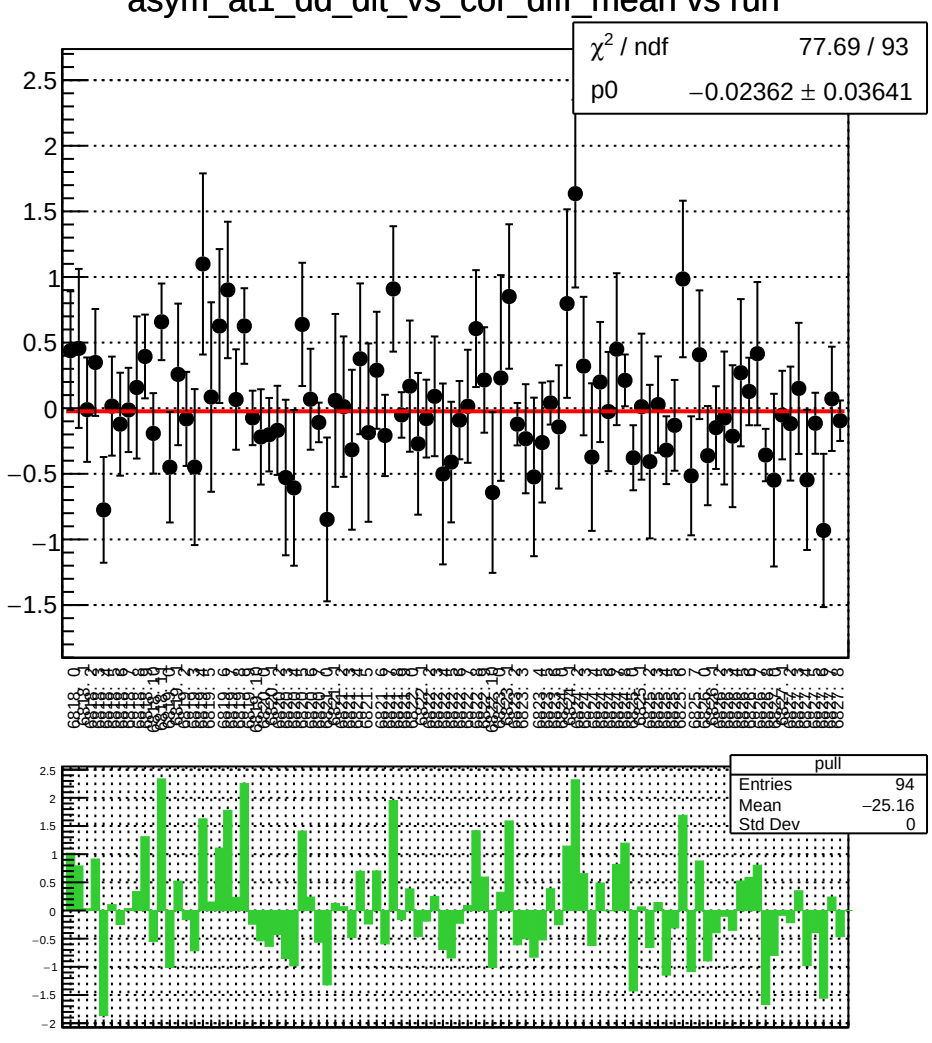

pull1D
Entries 94
Mean 0.002848
Std Dev 0.8523
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

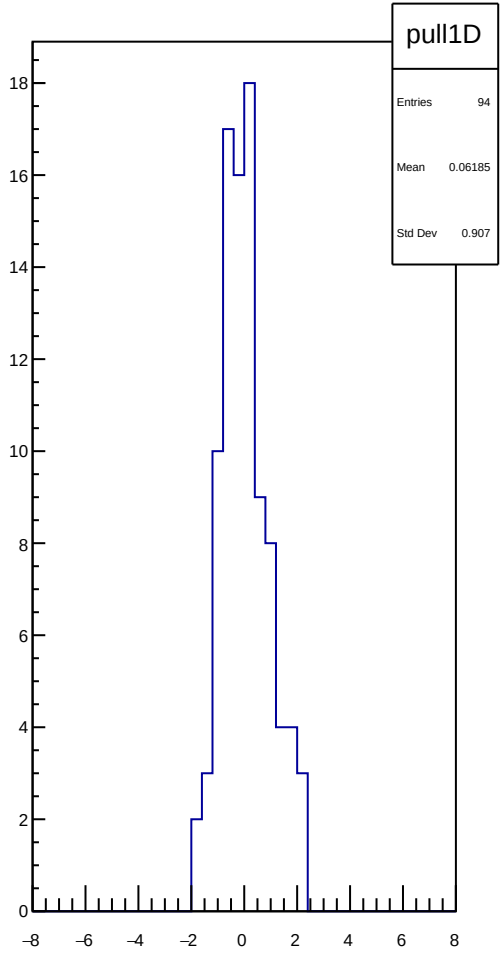

asym_at1_dd_rms vs run
χ² / ndf 110.2 / 93
p0 1861 ± 1.389
1920
1900
1880
1860
1840
1820

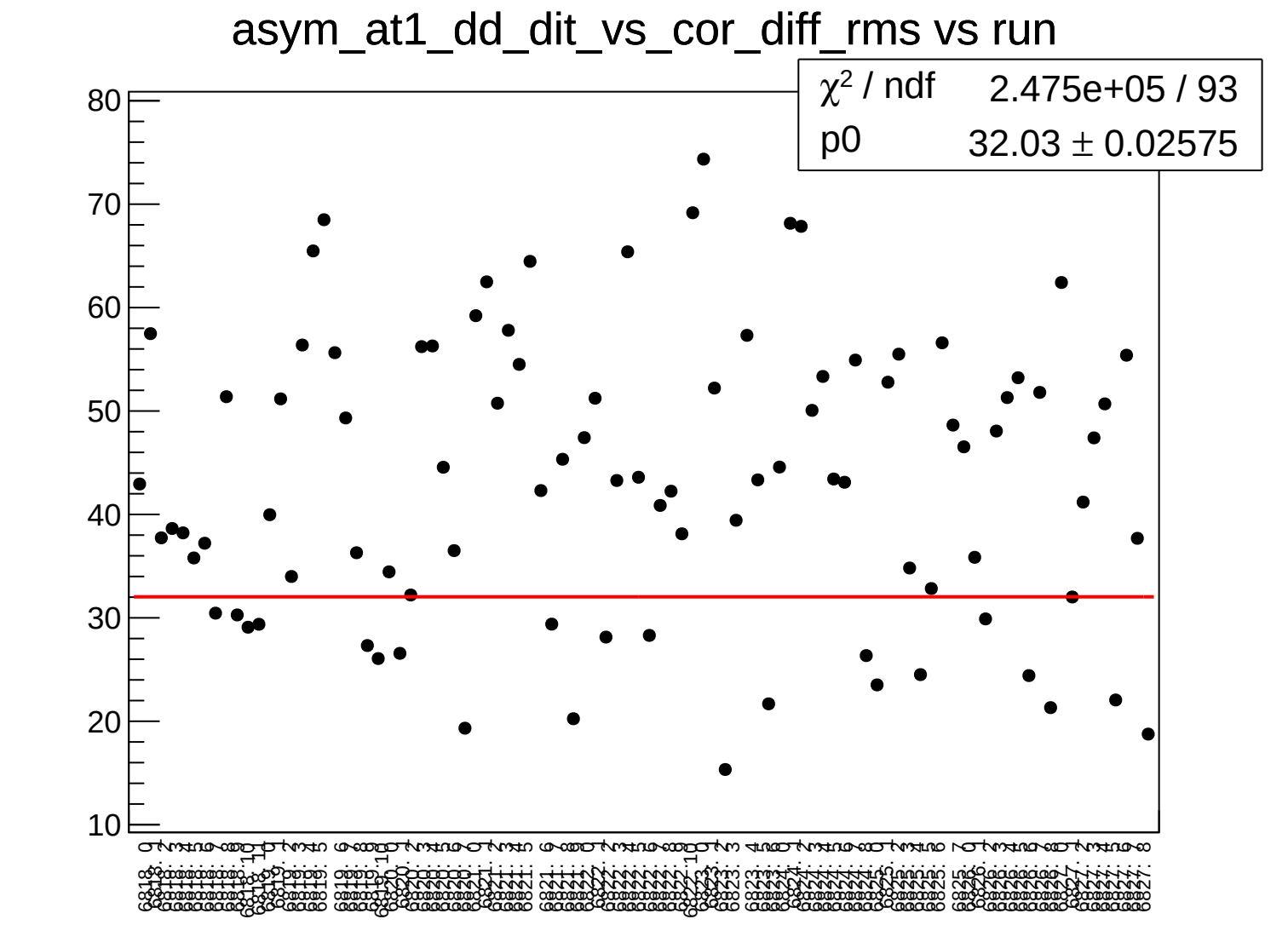

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.41 / 93
p0 2.904e−15 ± 1.911e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 50.11
Std Dev 20.65
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

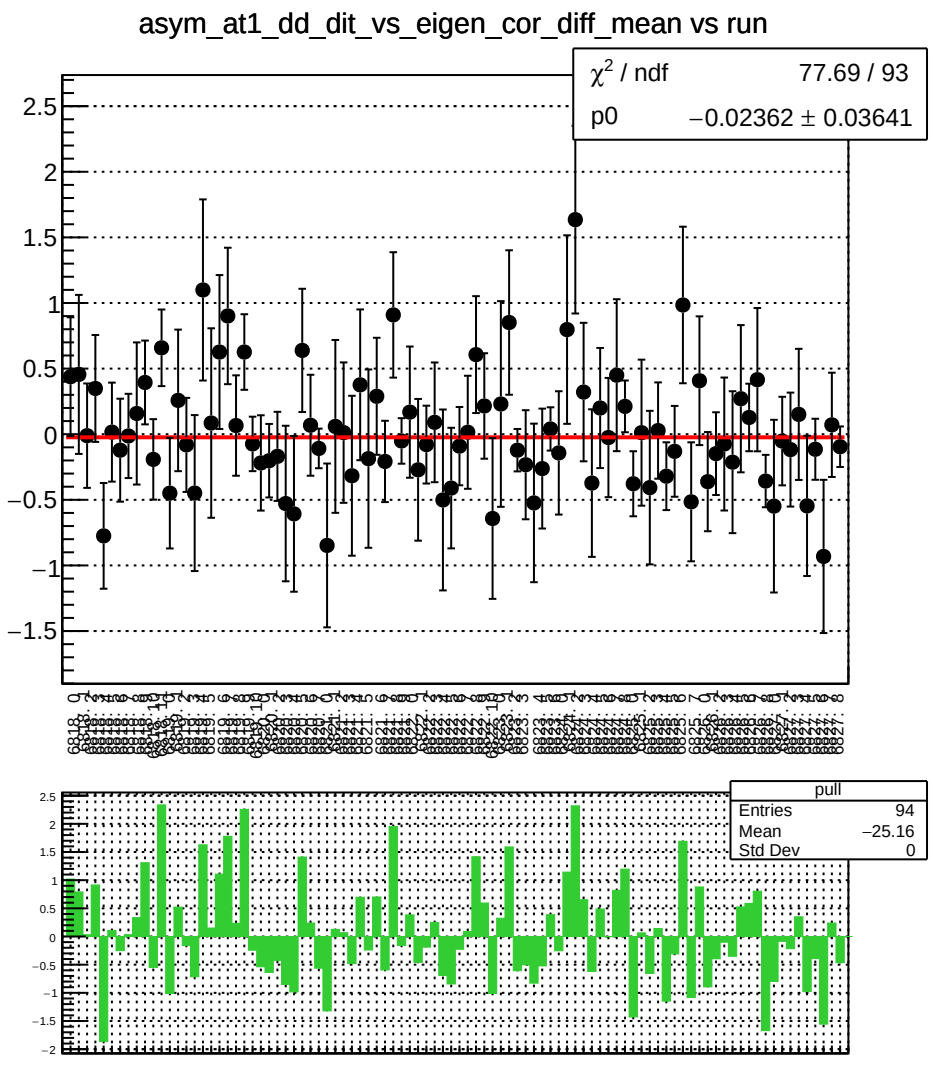

pull1D
Entries 94
Mean −0.2029
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

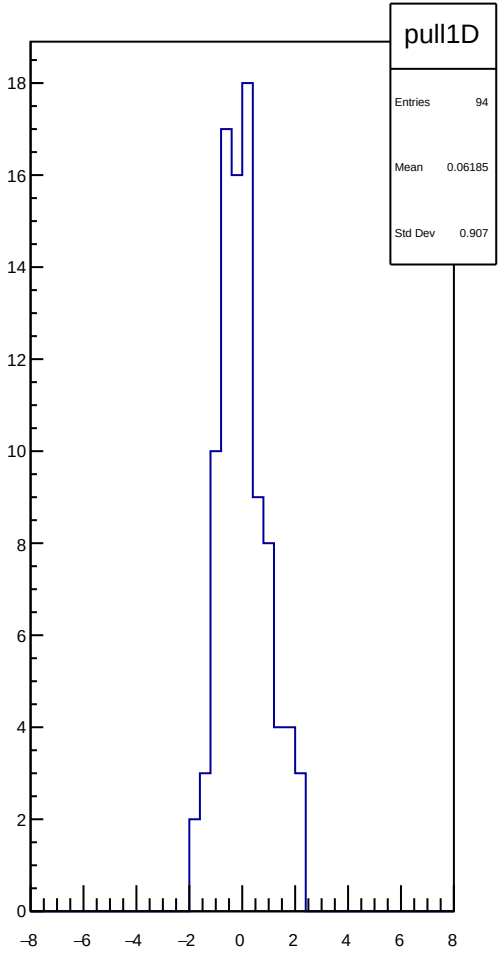

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 93
p0 1.124e−11 ± 1.351e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

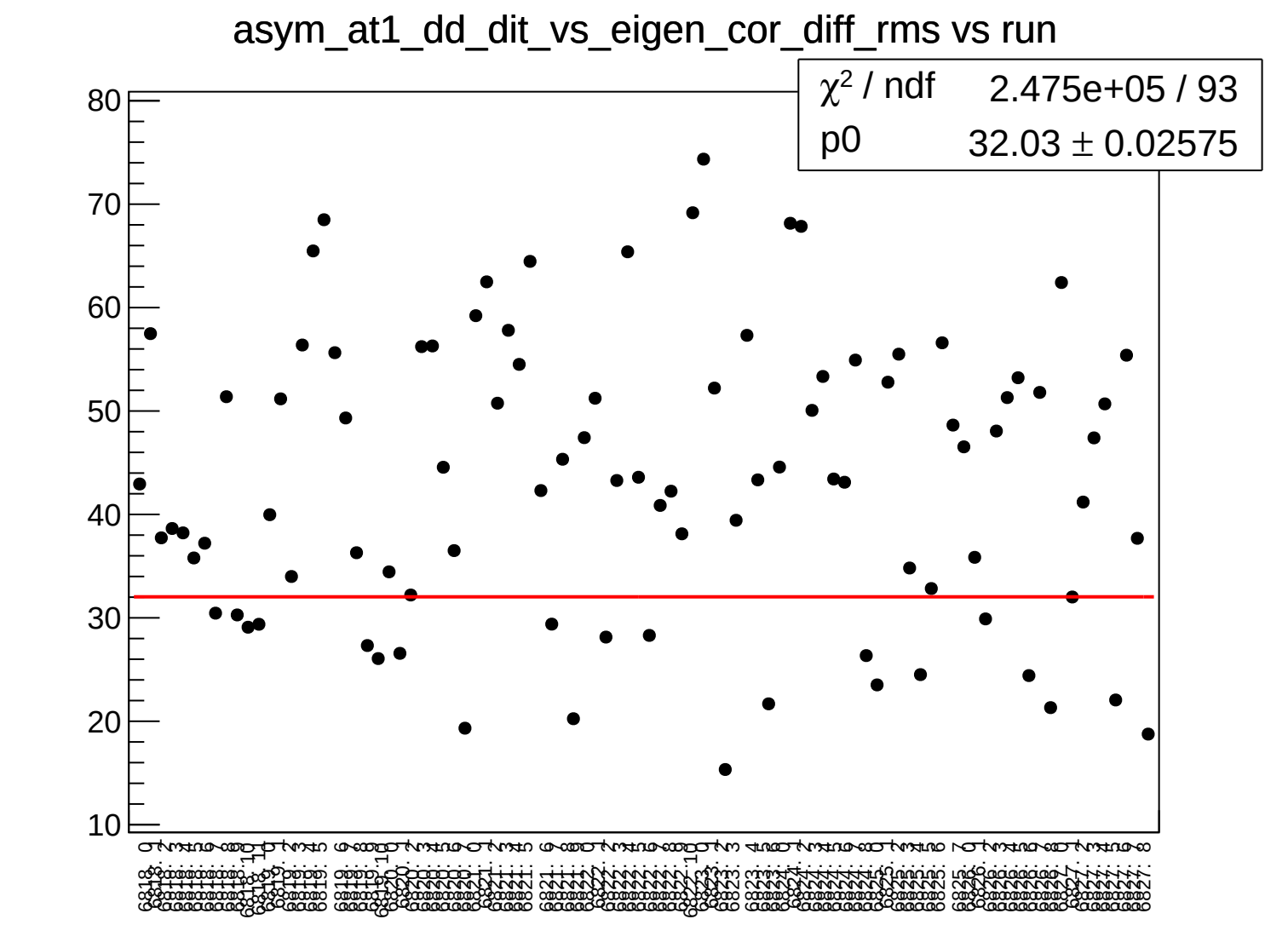

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.69 / 93
p0 −0.02362 ± 0.03641
pull
Entries 94
Mean −25.16
Std Dev 0

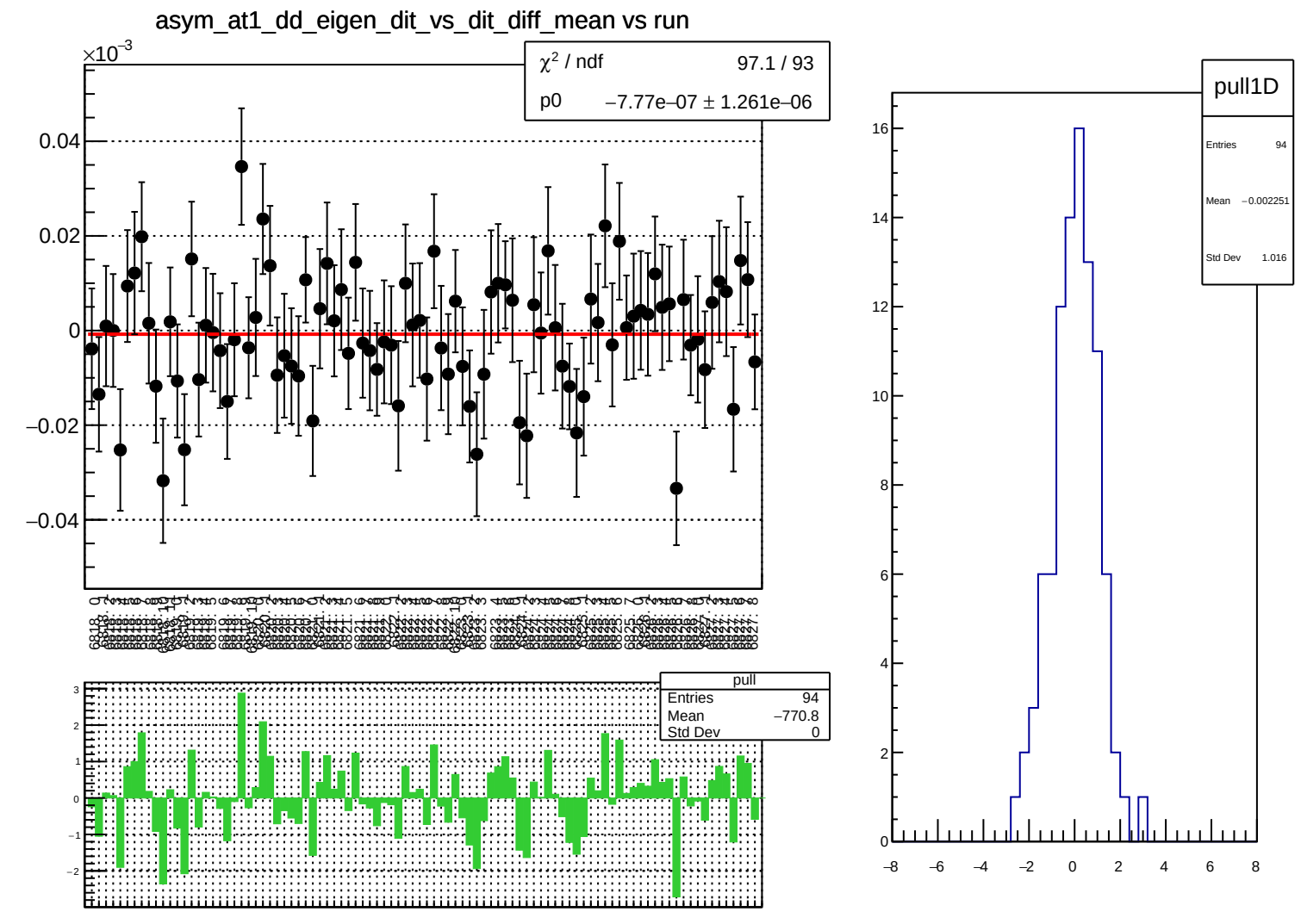

pull1D
Entries 94
Mean 0.06185
Std Dev 0.907

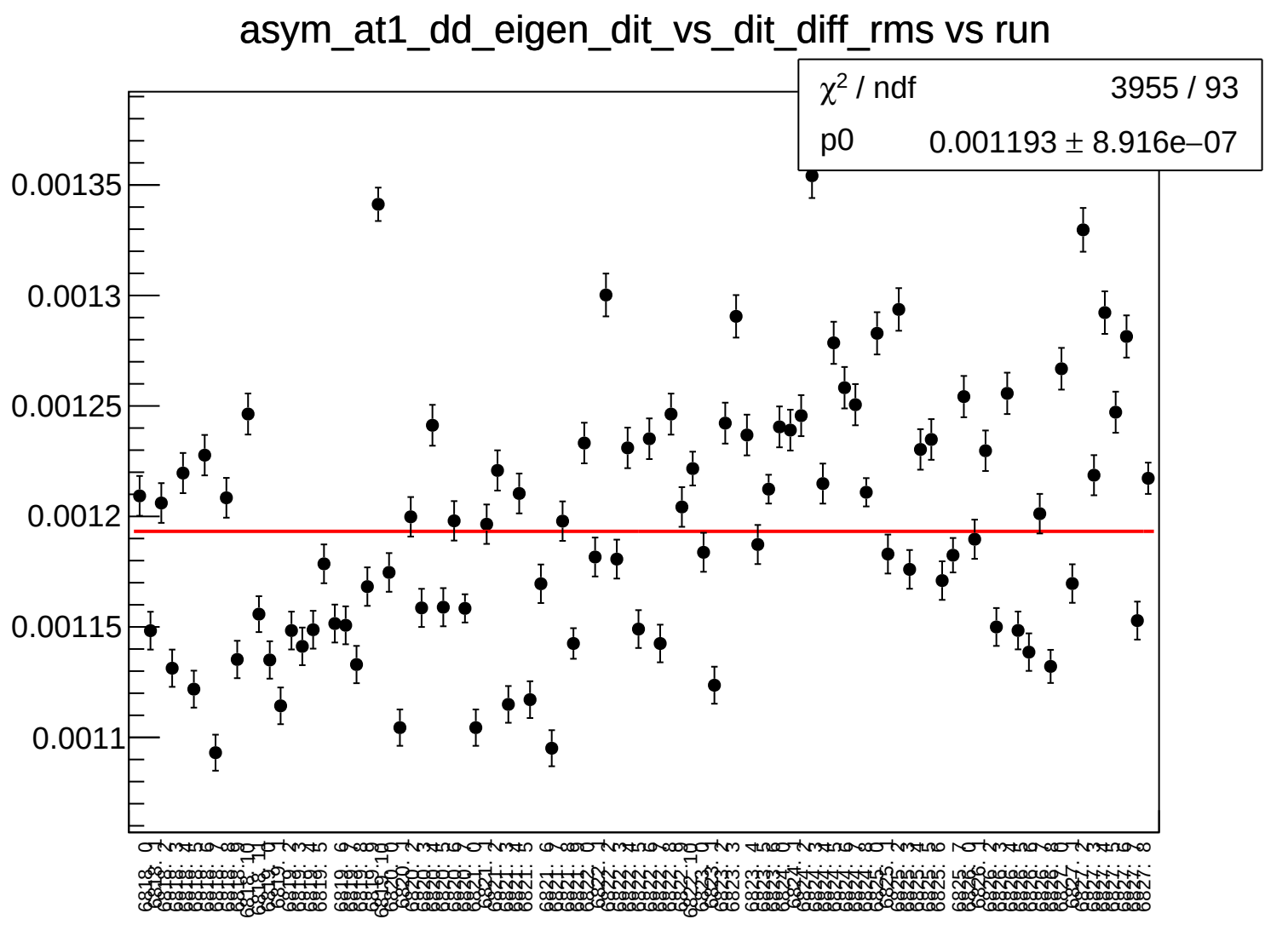

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 93
p0 32.03 ± 0.02575
80
70
60
50
40
30
20
10

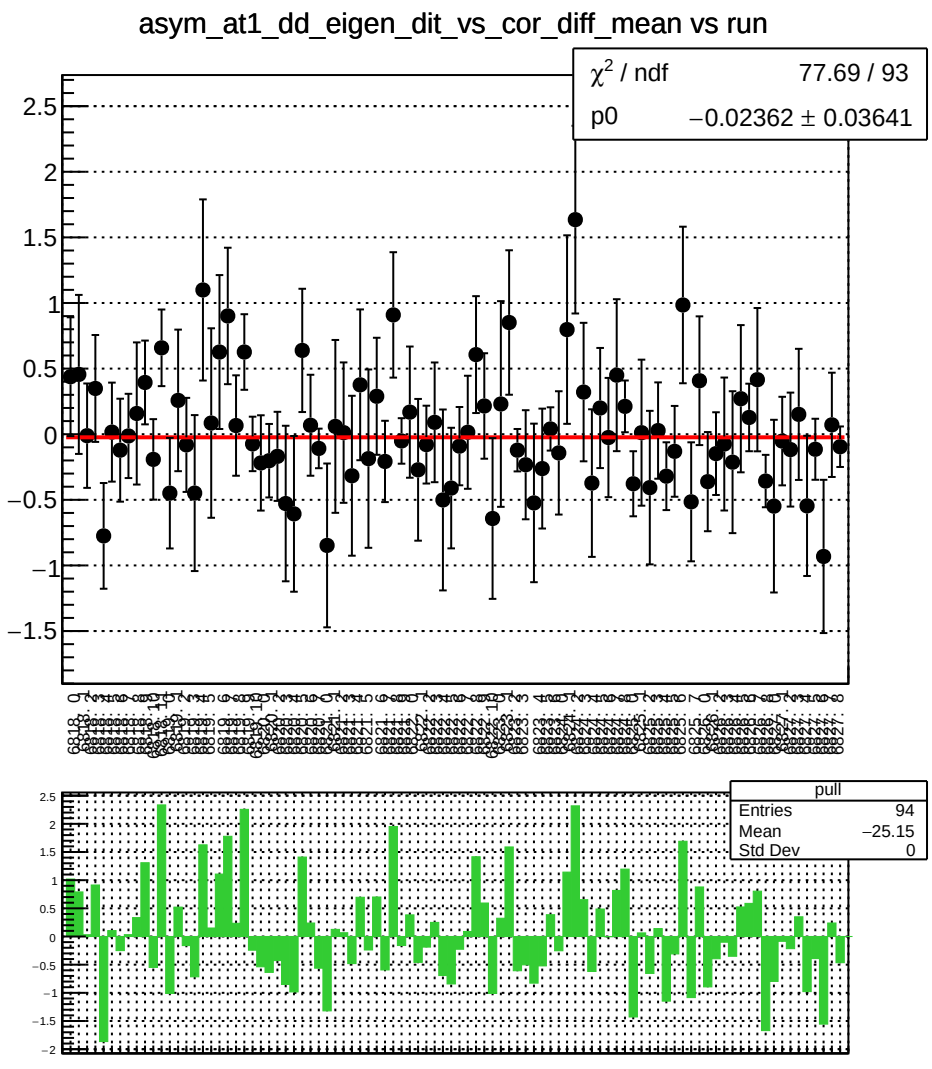

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.69 / 93
p0 −0.02362 ± 0.03641
pull
Entries 94
Mean −25.16
Std Dev 0

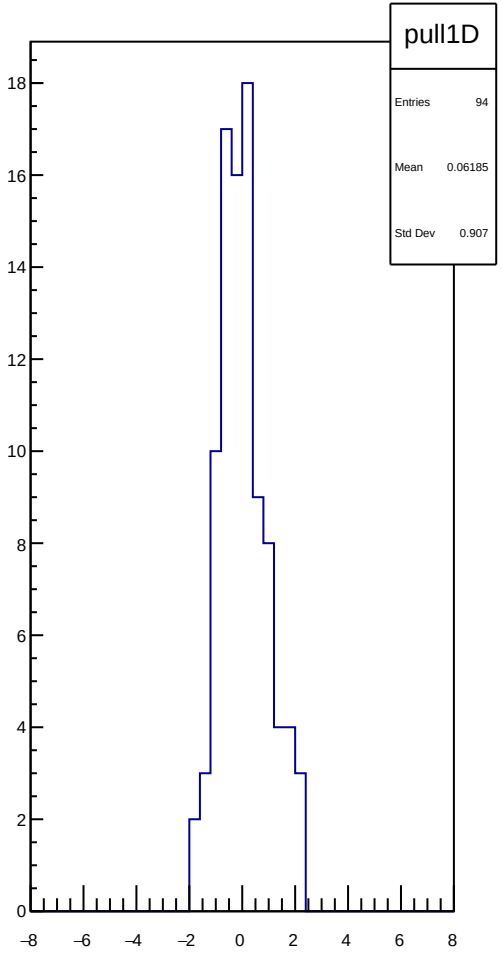

pull1D
Entries 94
Mean 0.06185
Std Dev 0.907

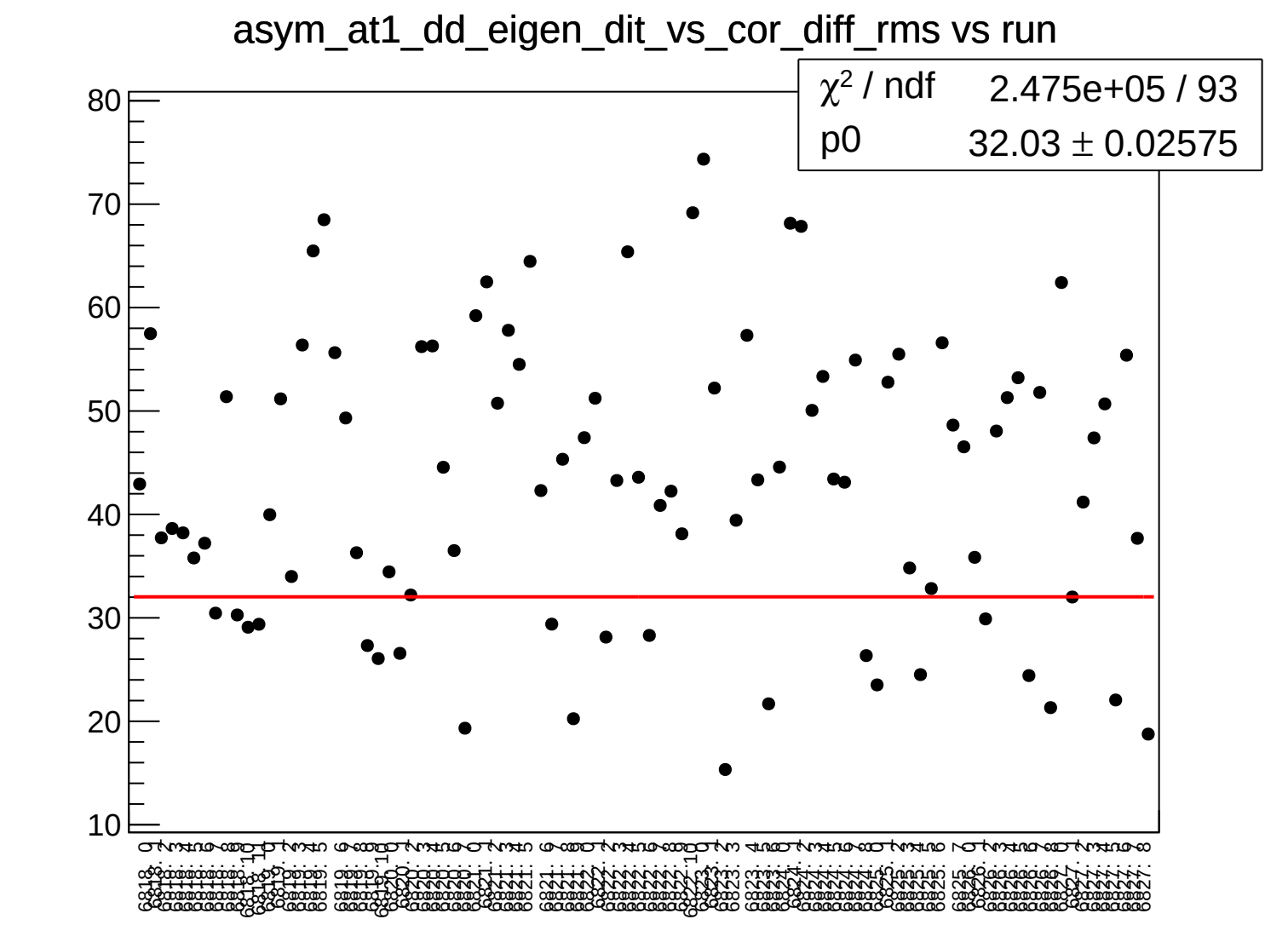

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 93
p0 32.03 ± 0.02575
80
70
60
50
40
30
20
10

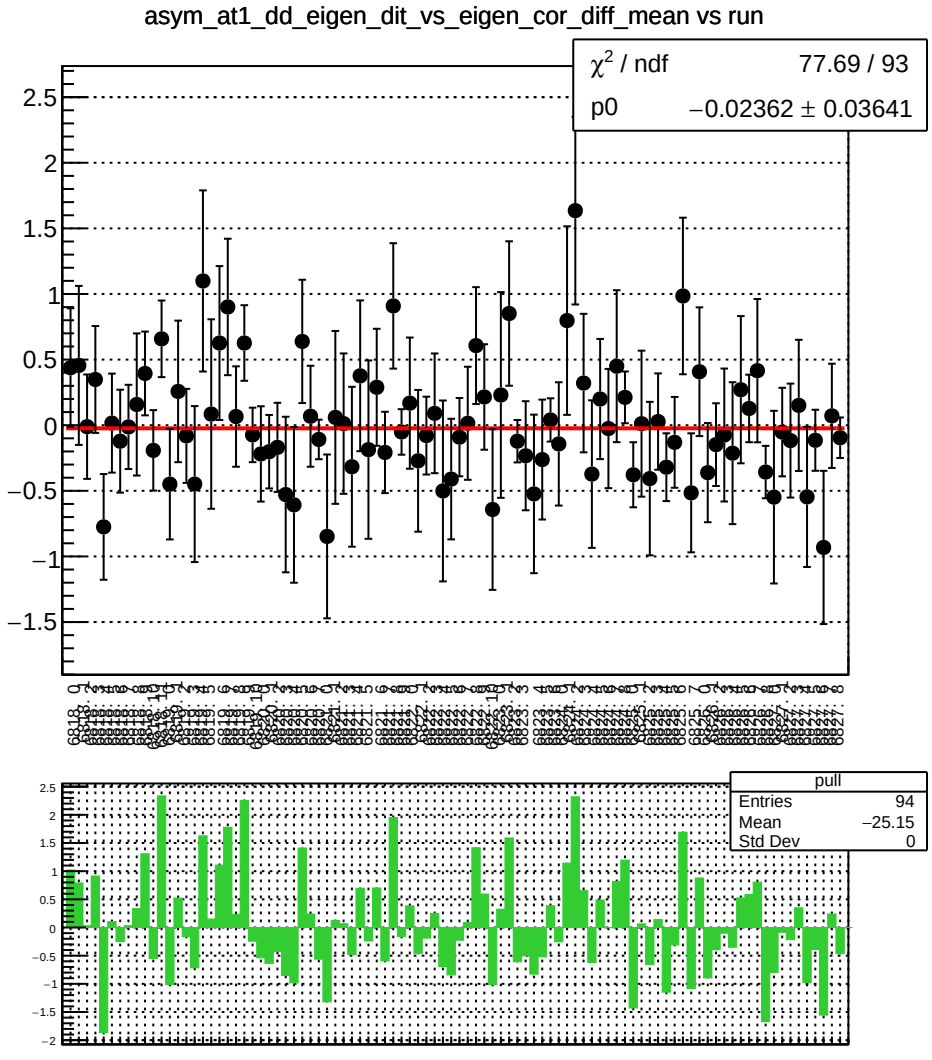

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.1 / 93
p0 −7.77e−07 ± 1.261e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −770.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002251
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

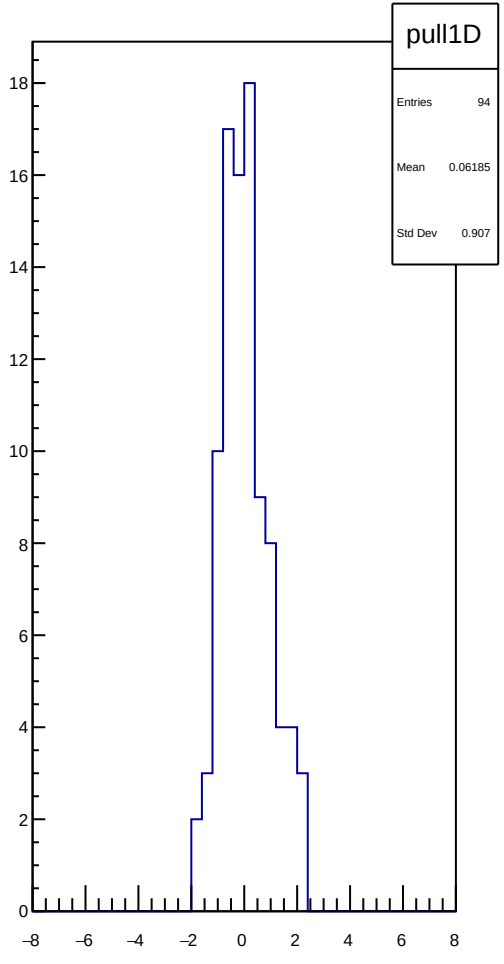

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3955 / 93
p0 0.001193 ± 8.916e−07
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

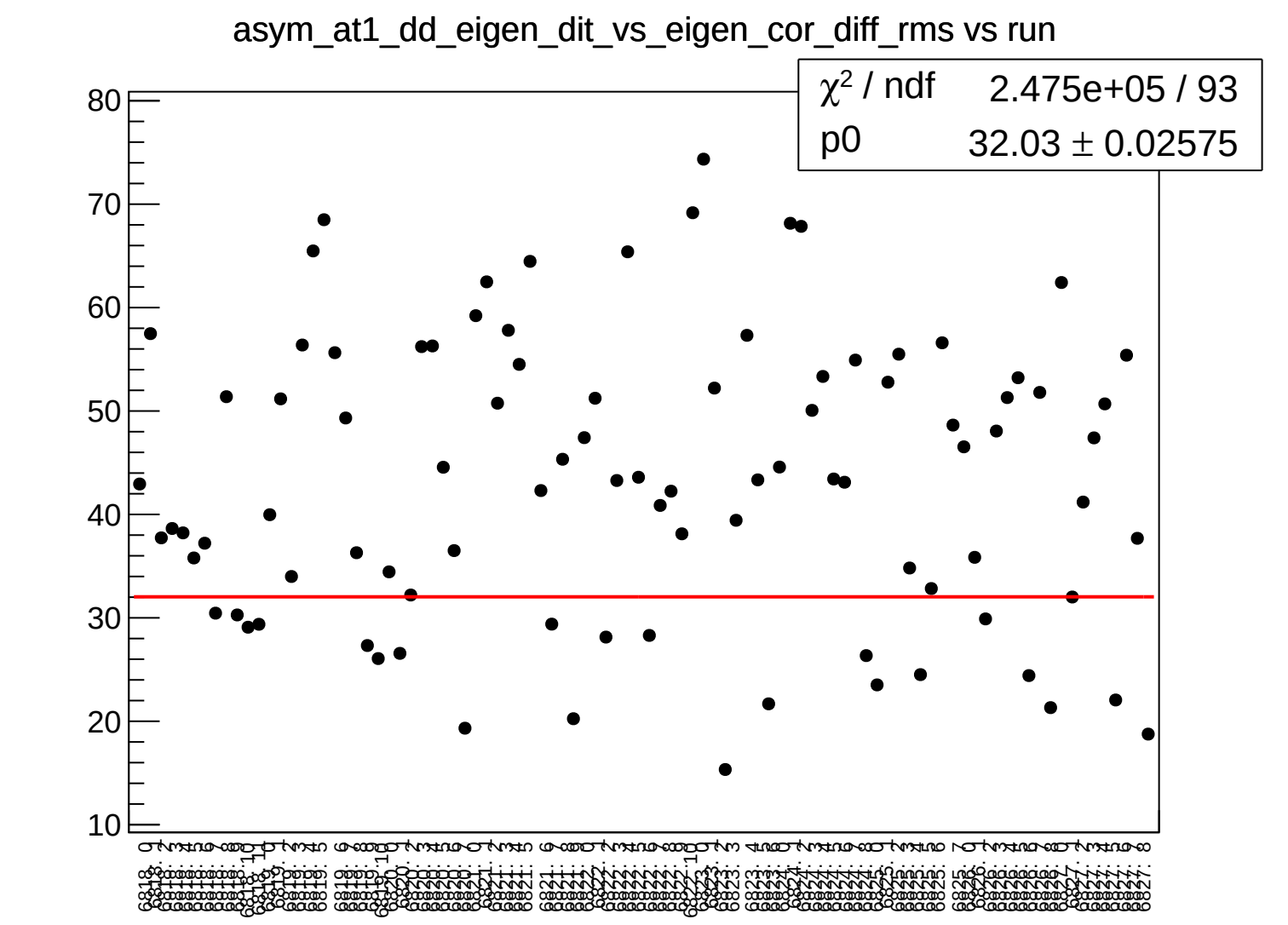

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.69 / 93
p0 −0.02362 ± 0.03641
pull
Entries 94
Mean −25.15
Std Dev 0

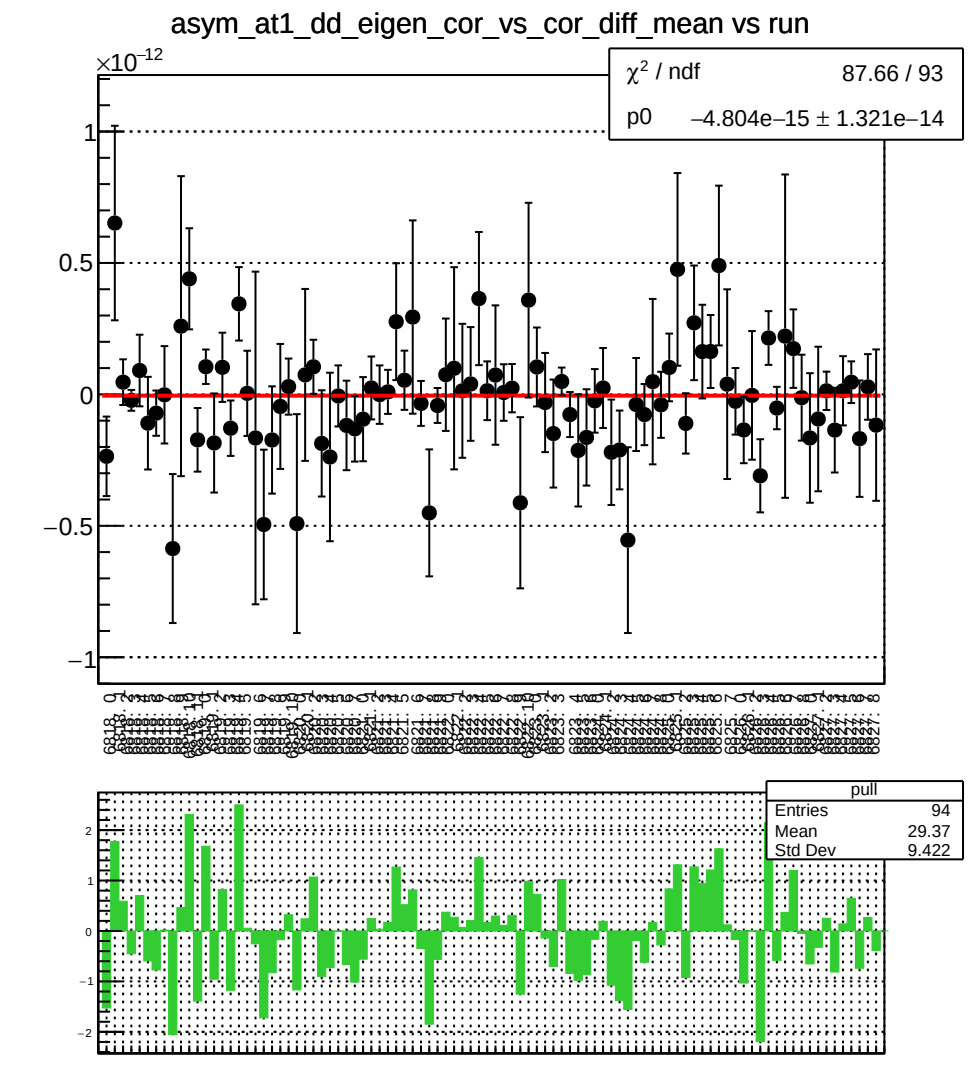

pull1D
Entries 94
Mean 0.06185
Std Dev 0.907

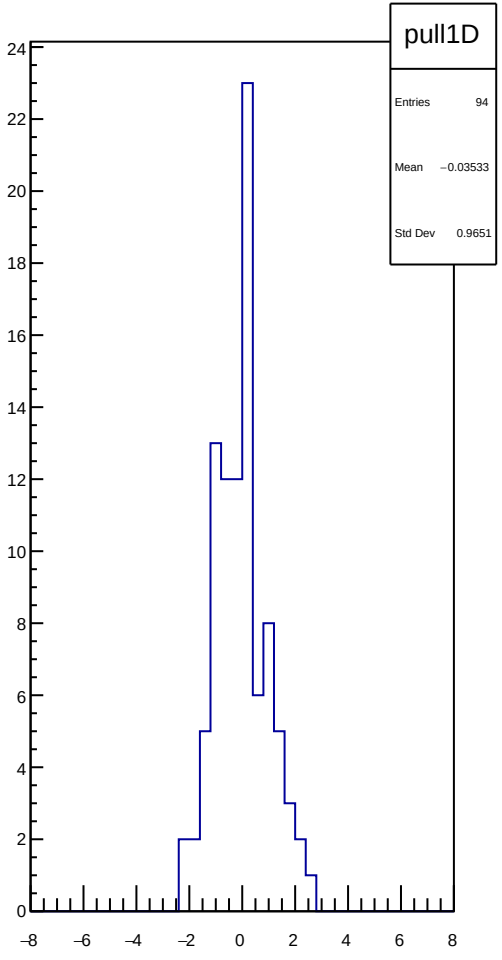

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 93
p0 32.03 ± 0.02575
80
70
60
50
40
30
20
10

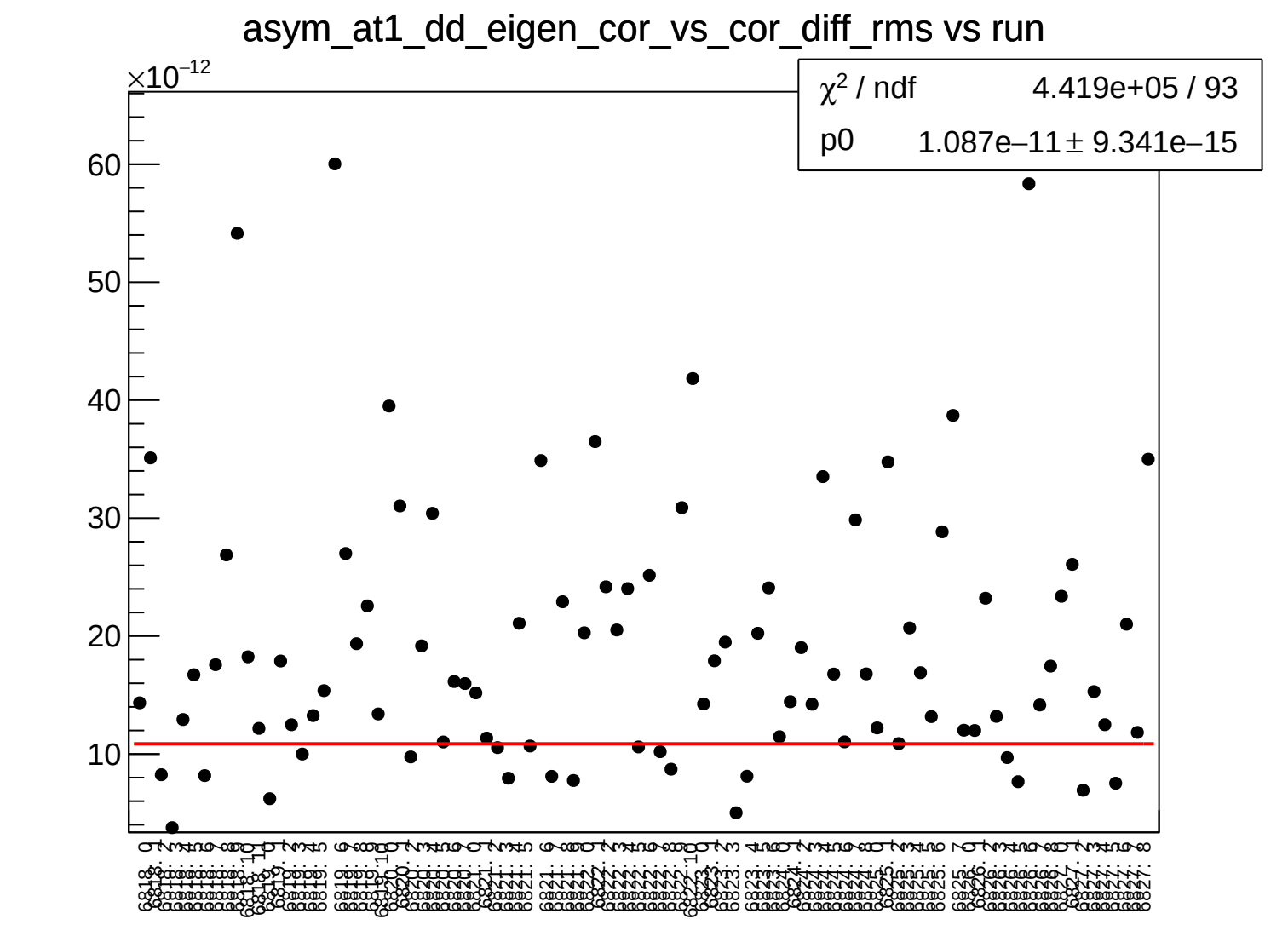

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.69 / 93
p0 −0.02362 ± 0.03641
pull
Entries 94
Mean −25.15
Std Dev 0

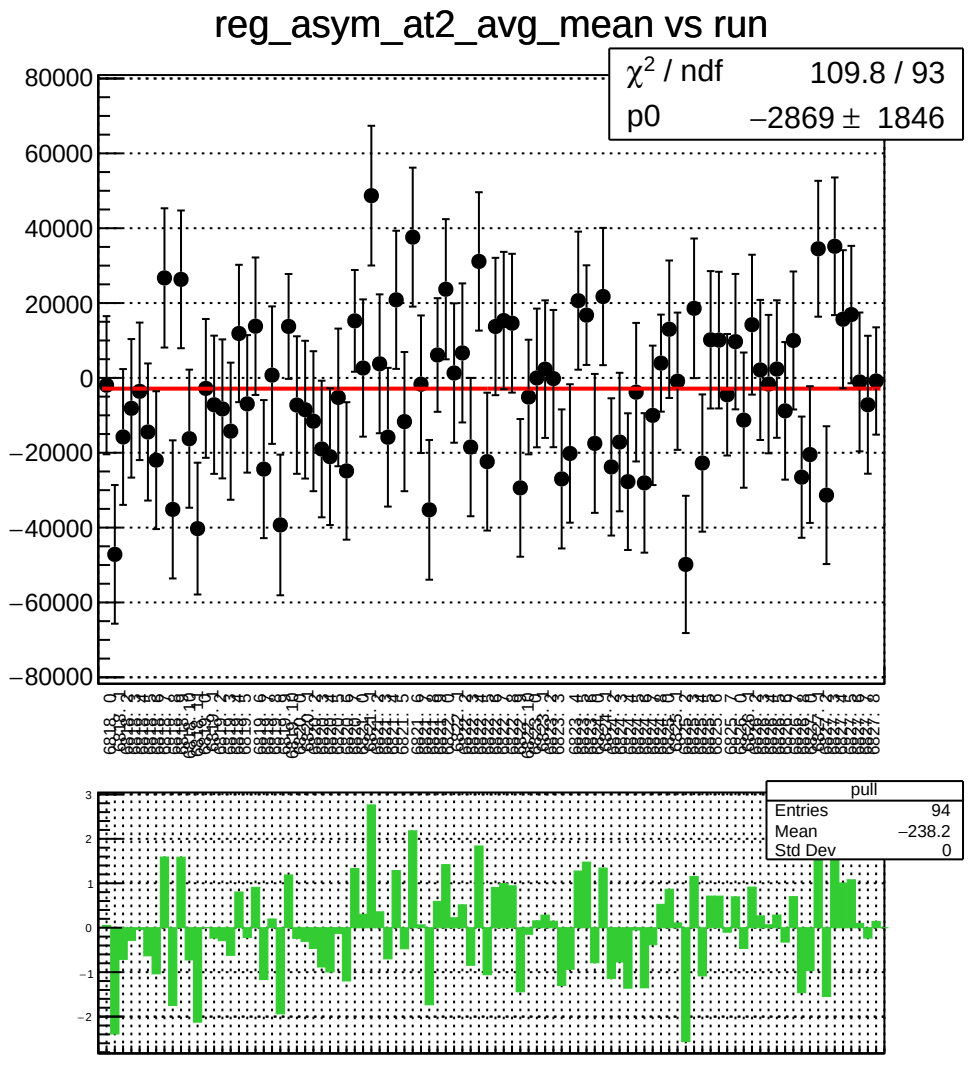

pull1D
Entries 94
Mean 0.06185
Std Dev 0.907

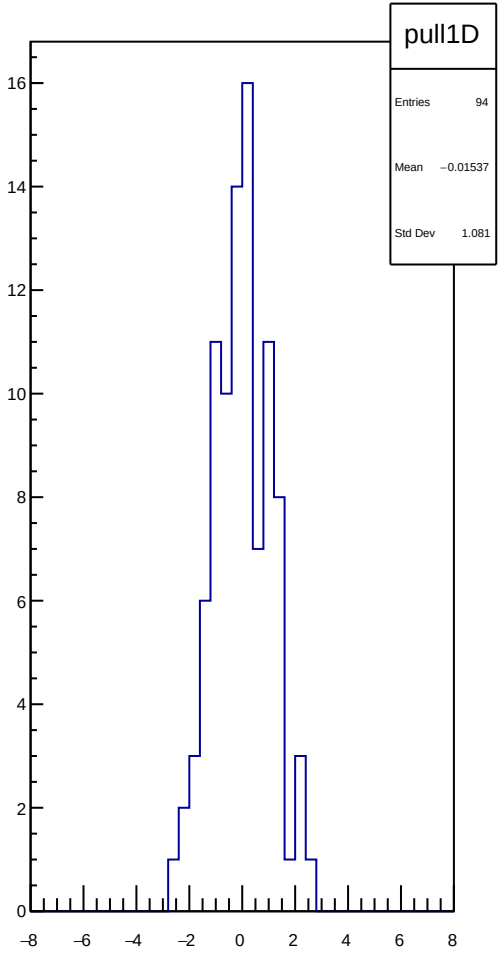

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.475e+05 / 93
p0 32.03 ± 0.02575
80
70
60
50
40
30
20
10

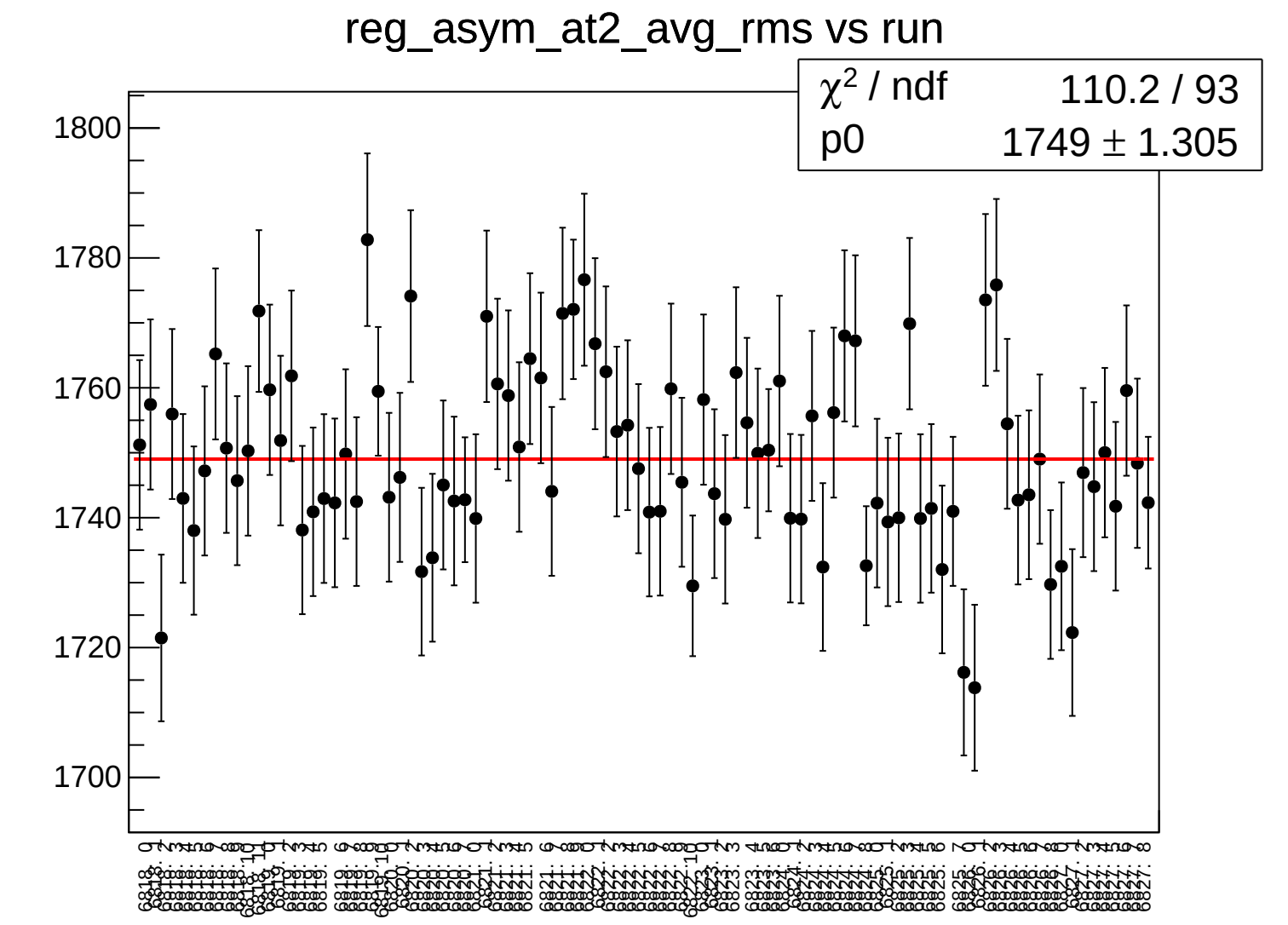

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.66 / 93
p0 −4.804e−15 ± 1.321e−14
pull
Entries 94
Mean 29.37
Std Dev 9.422

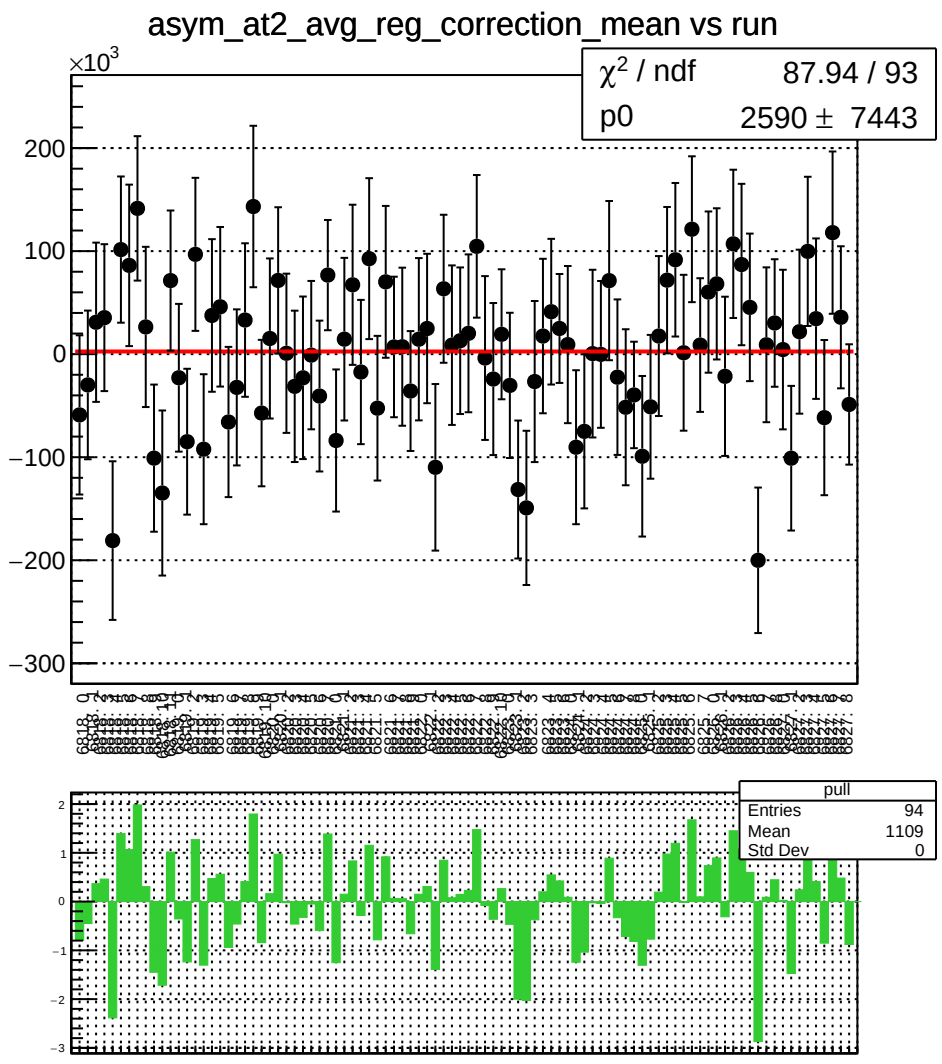

pull1D
Entries 94
Mean −0.03533
Std Dev 0.9651

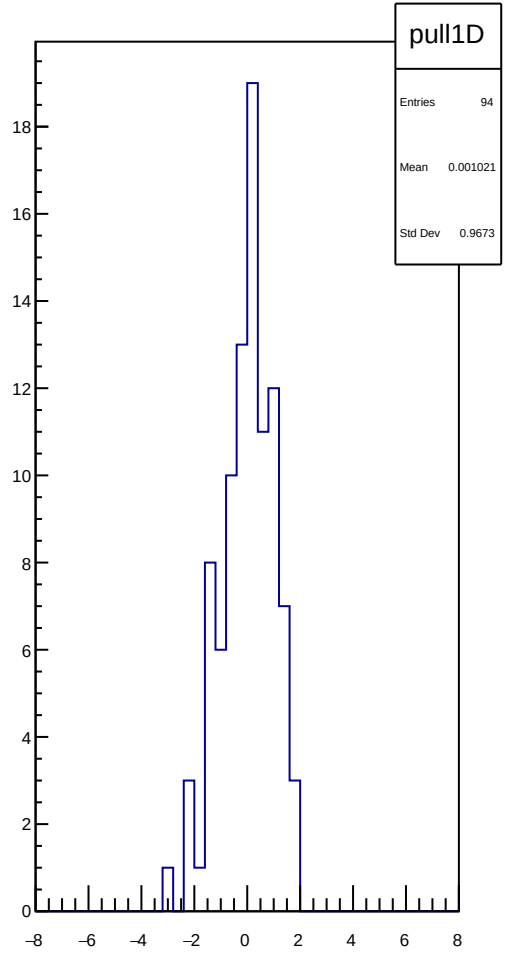

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.419e+05 / 93
p0 1.087e−11 ± 9.341e−15
60
50
40
30
20
10

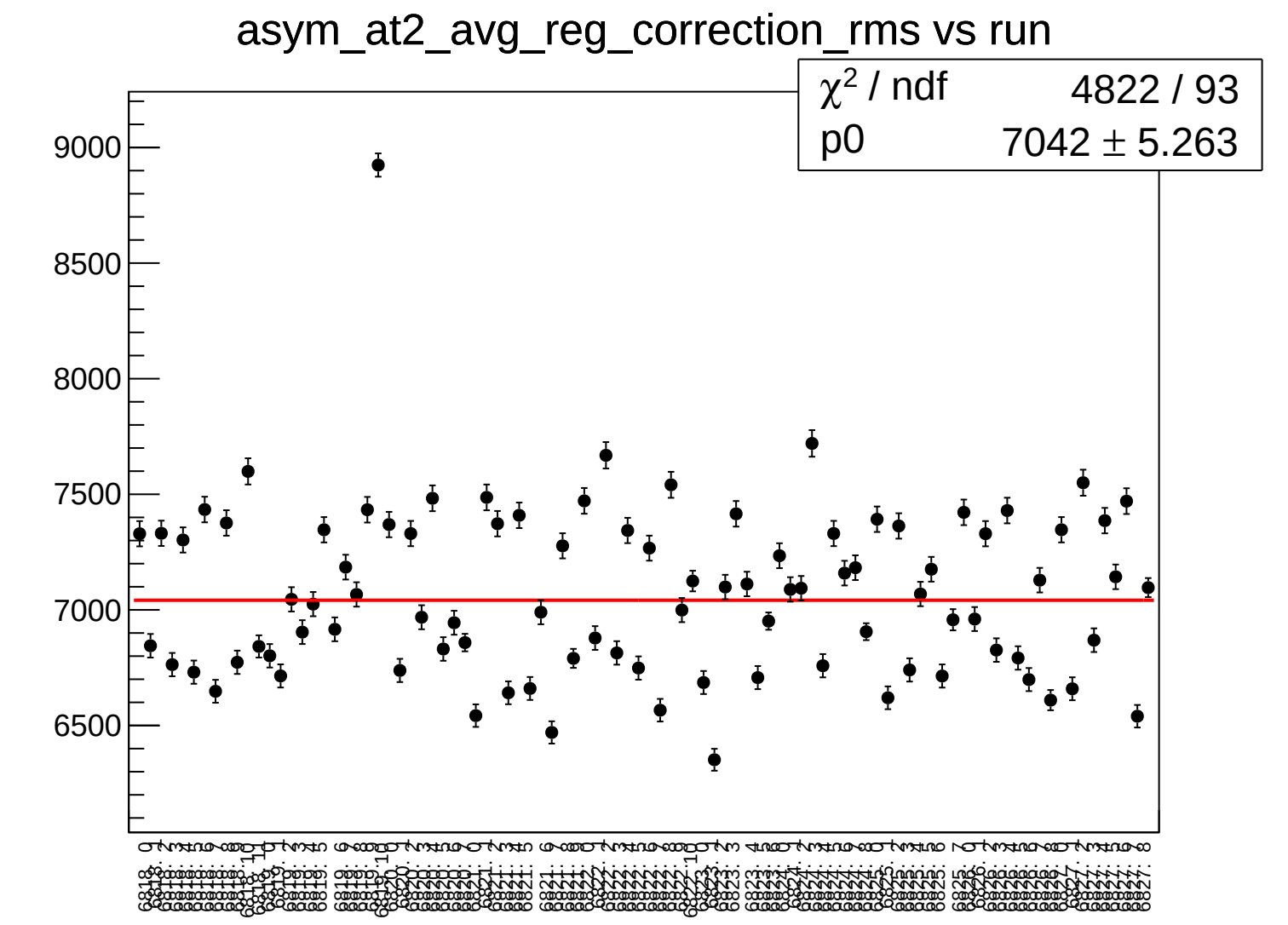

reg_asym_at2_avg_mean vs run
χ² / ndf 109.8 / 93
p0 −2869 ± 1846
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −238.2
Std Dev 0
3
2
1
0
−1
−2

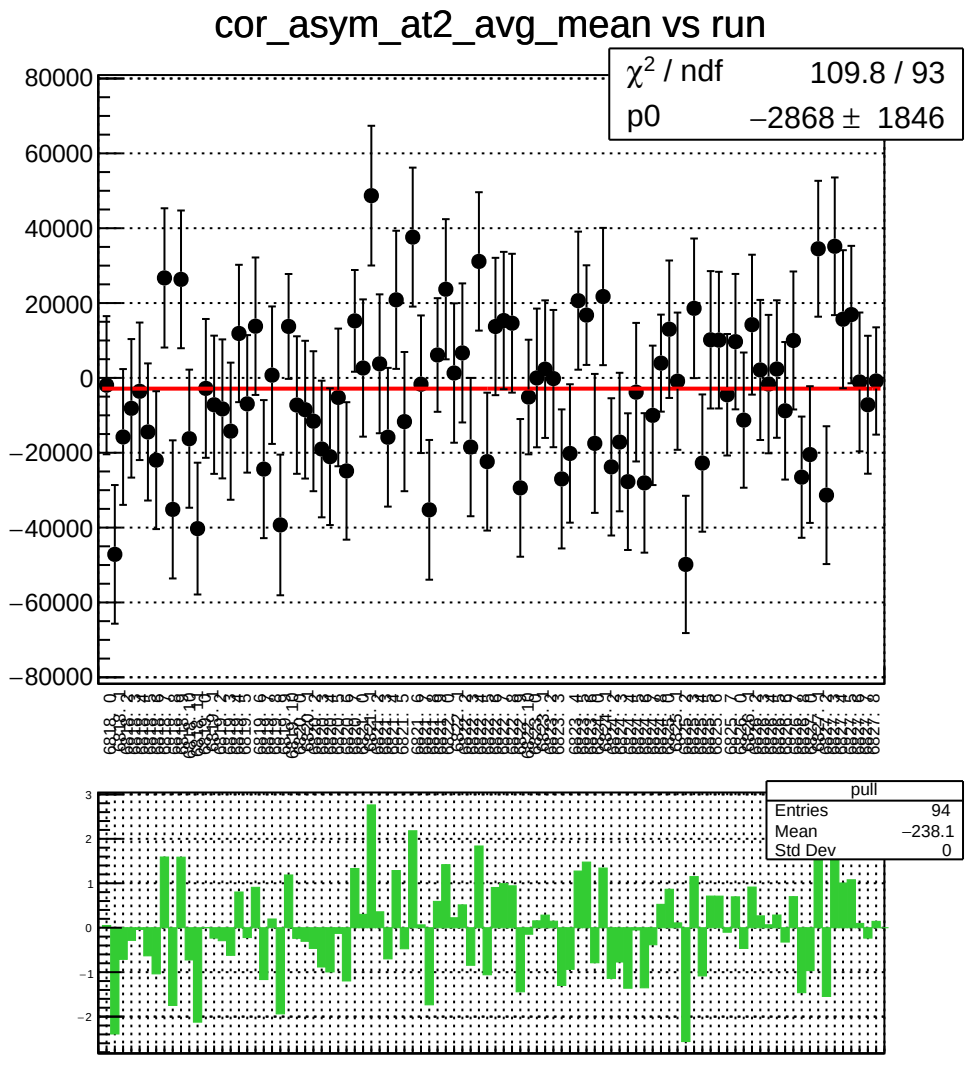

pull1D
Entries 94
Mean −0.01537
Std Dev 1.081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

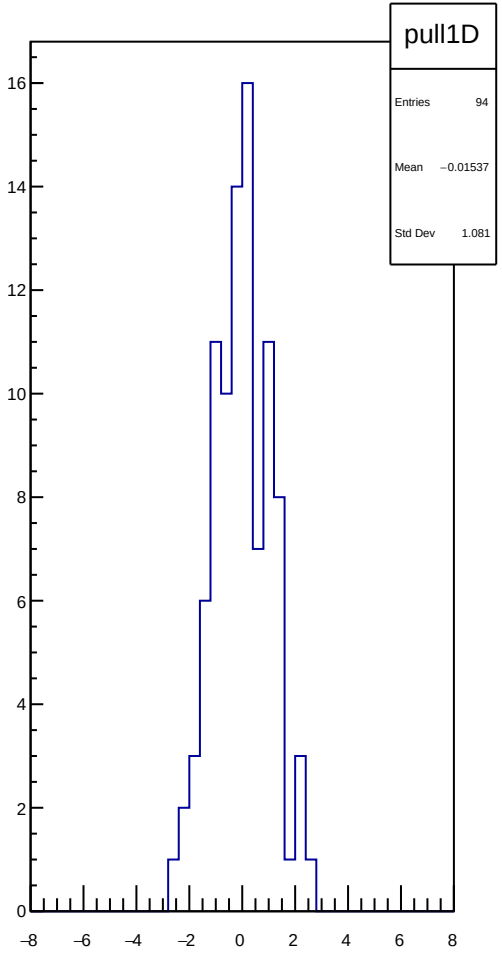

reg_asym_at2_avg_rms vs run
χ^2 / ndf 110.2 / 93
p0 1749 ± 1.305
1800
1780
1760
1740
1720
1700

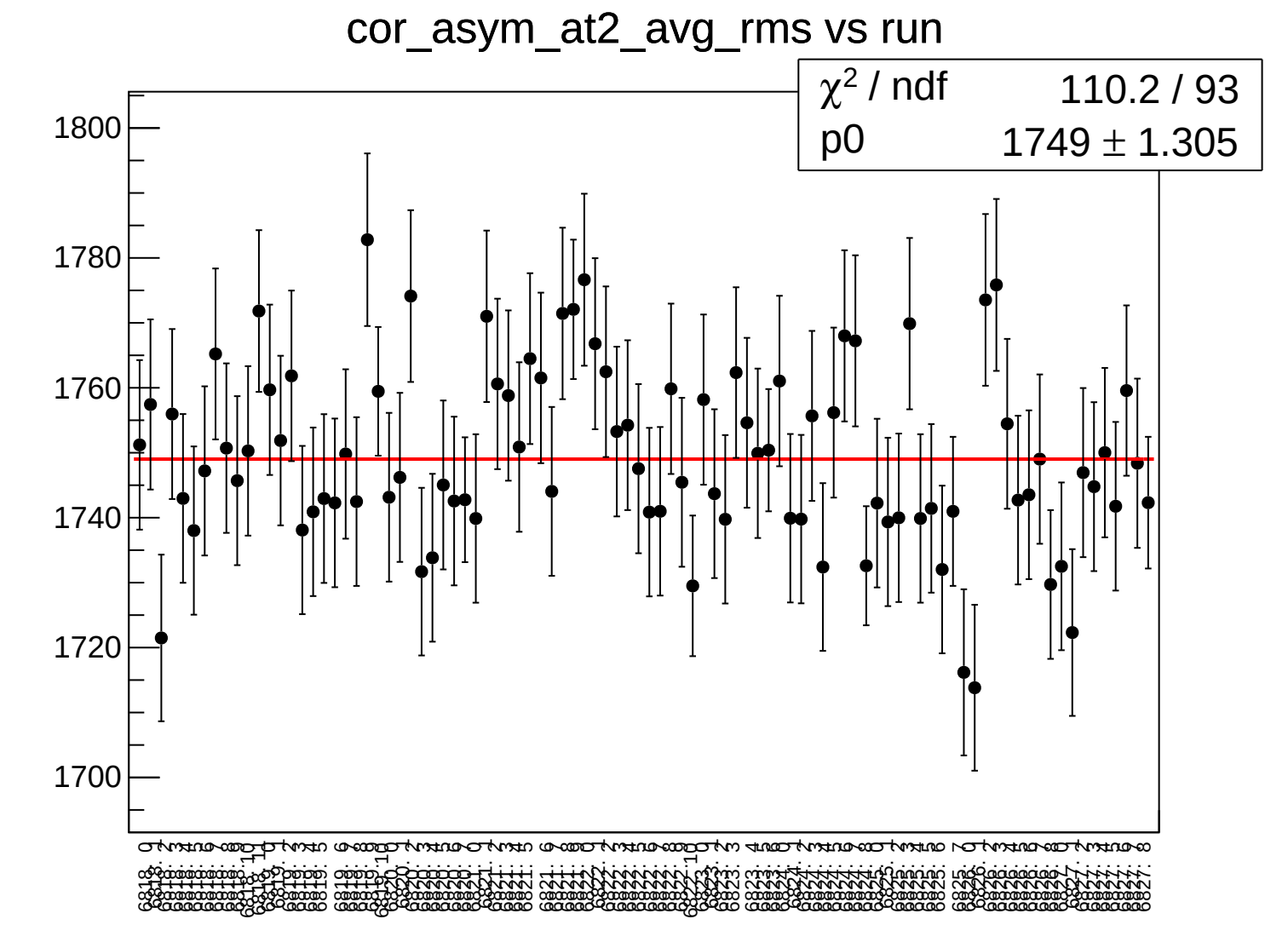

asym_at2_avg_reg_correction_mean vs run
χ^2 / ndf 87.94 / 93
p0 2590 ± 7443
×10^3
pull
Entries 94
Mean 1109
Std Dev 0

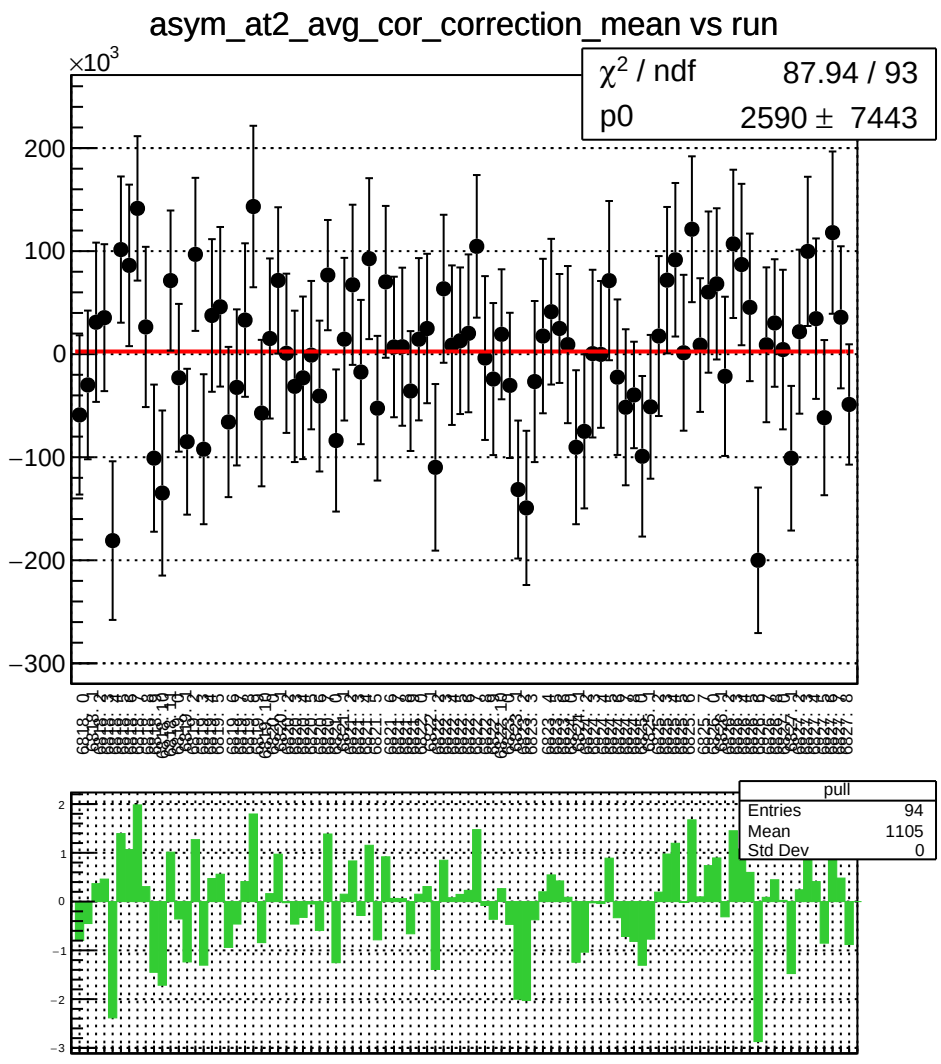

pull1D
Entries 94
Mean 0.001021
Std Dev 0.9673

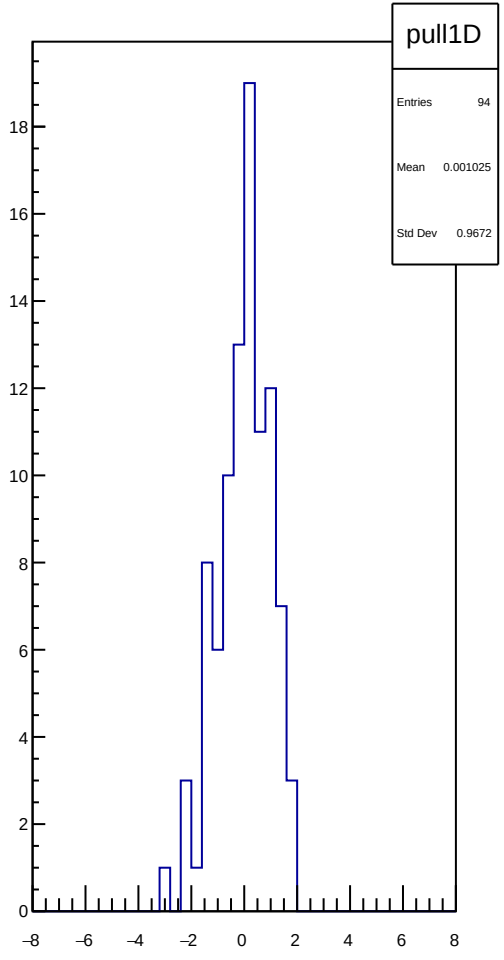

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4822 / 93
p0 7042 ± 5.263
9000
8500
8000
7500
7000
6500

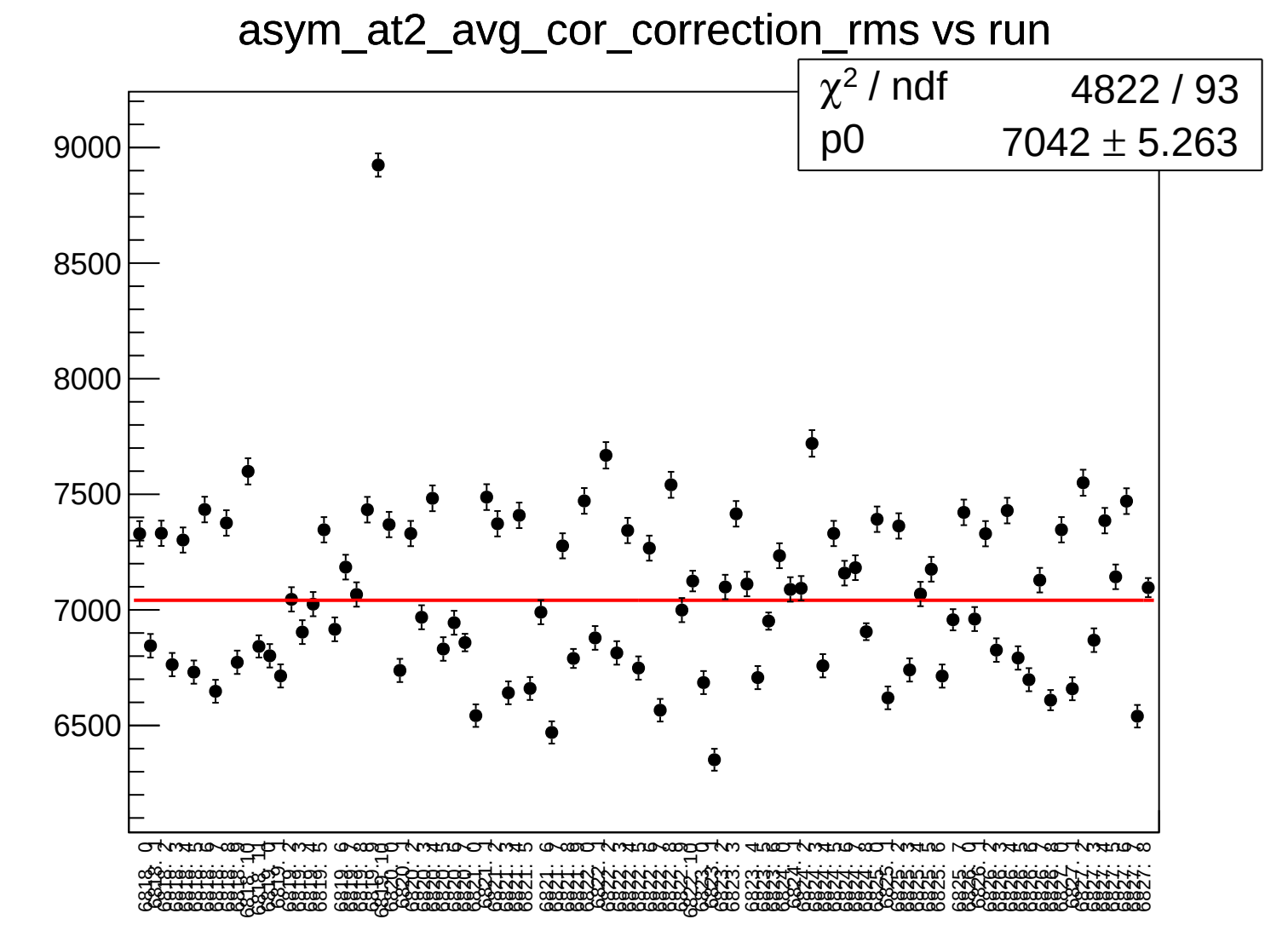

cor_asym_at2_avg_mean vs run
χ² / ndf 109.8 / 93
p0 −2868 ± 1846
pull
Entries 94
Mean −238.1
Std Dev 0

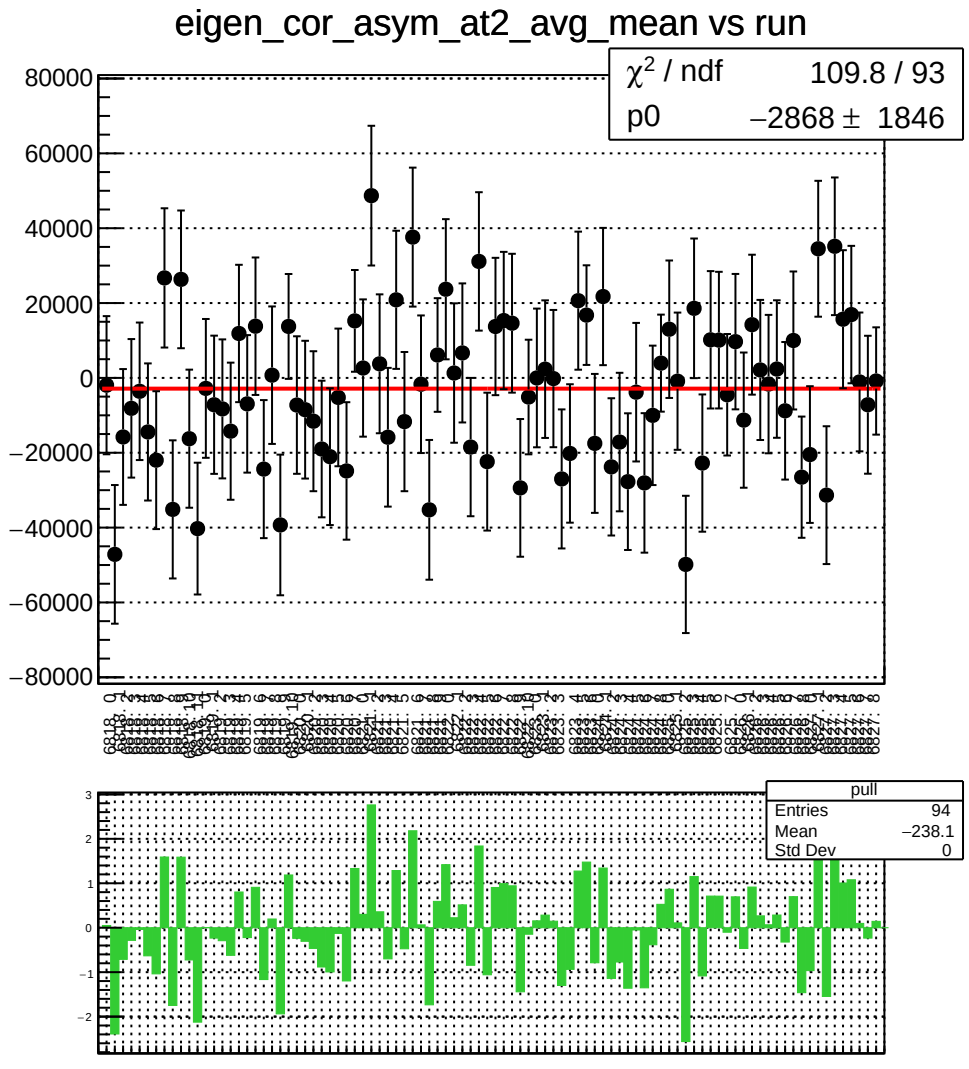

pull1D
Entries 94
Mean −0.01537
Std Dev 1.081

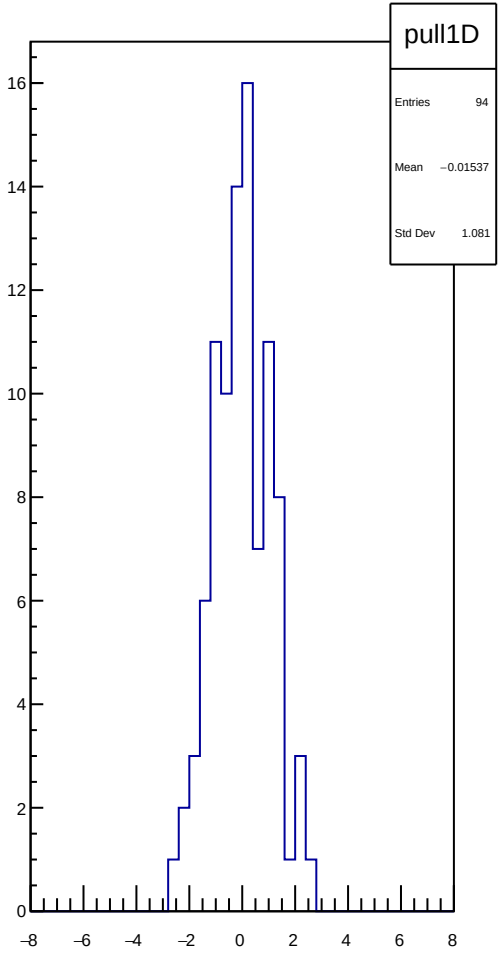

cor_asym_at2_avg_rms vs run
χ² / ndf 110.2 / 93
p0 1749 ± 1.305
1800
1780
1760
1740
1720
1700

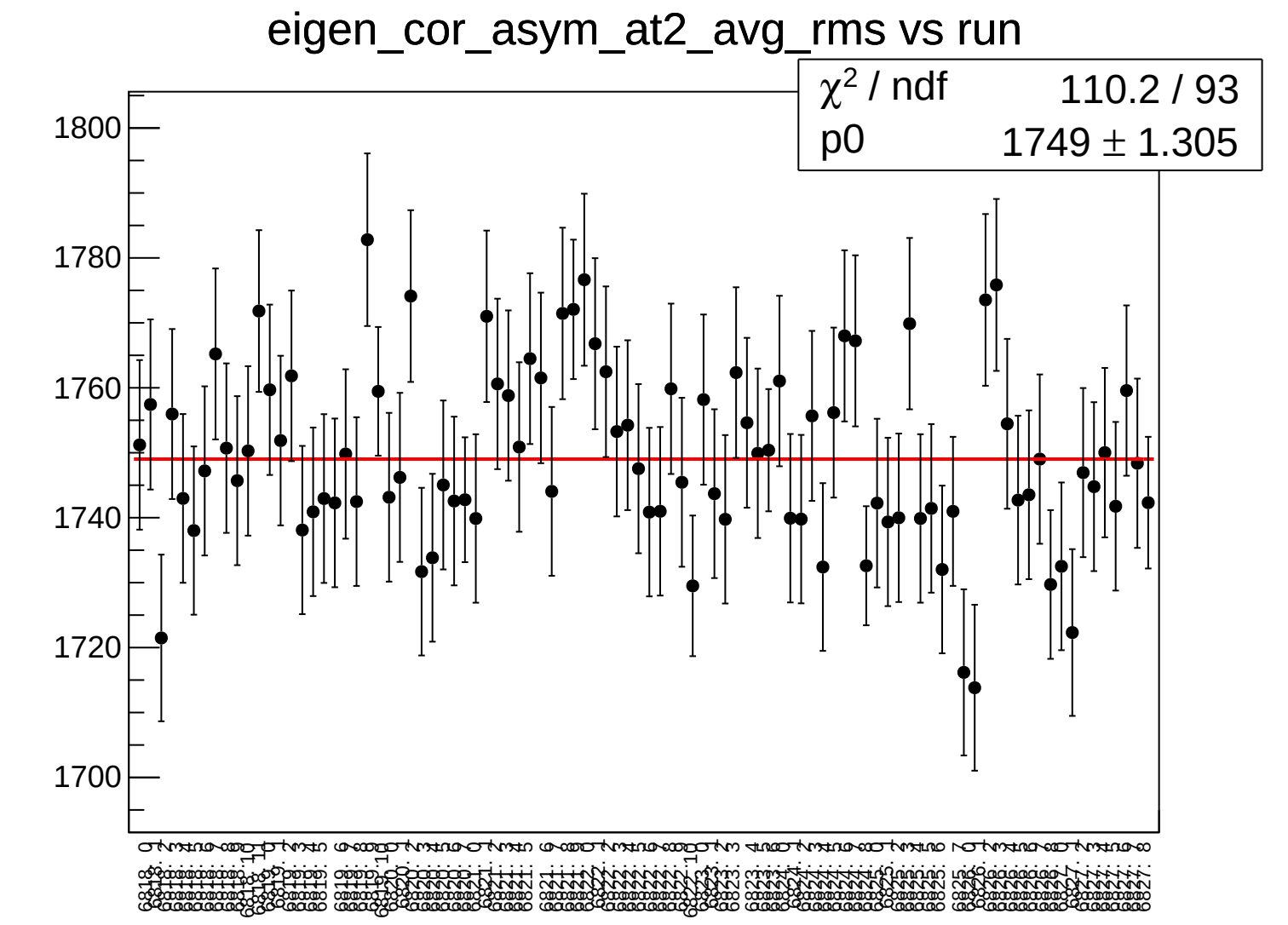

asym_at2_avg_cor_correction_mean vs run
χ² / ndf 87.94 / 93
p0 2590 ± 7443
×10³
pull
Entries 94
Mean 1105
Std Dev 0

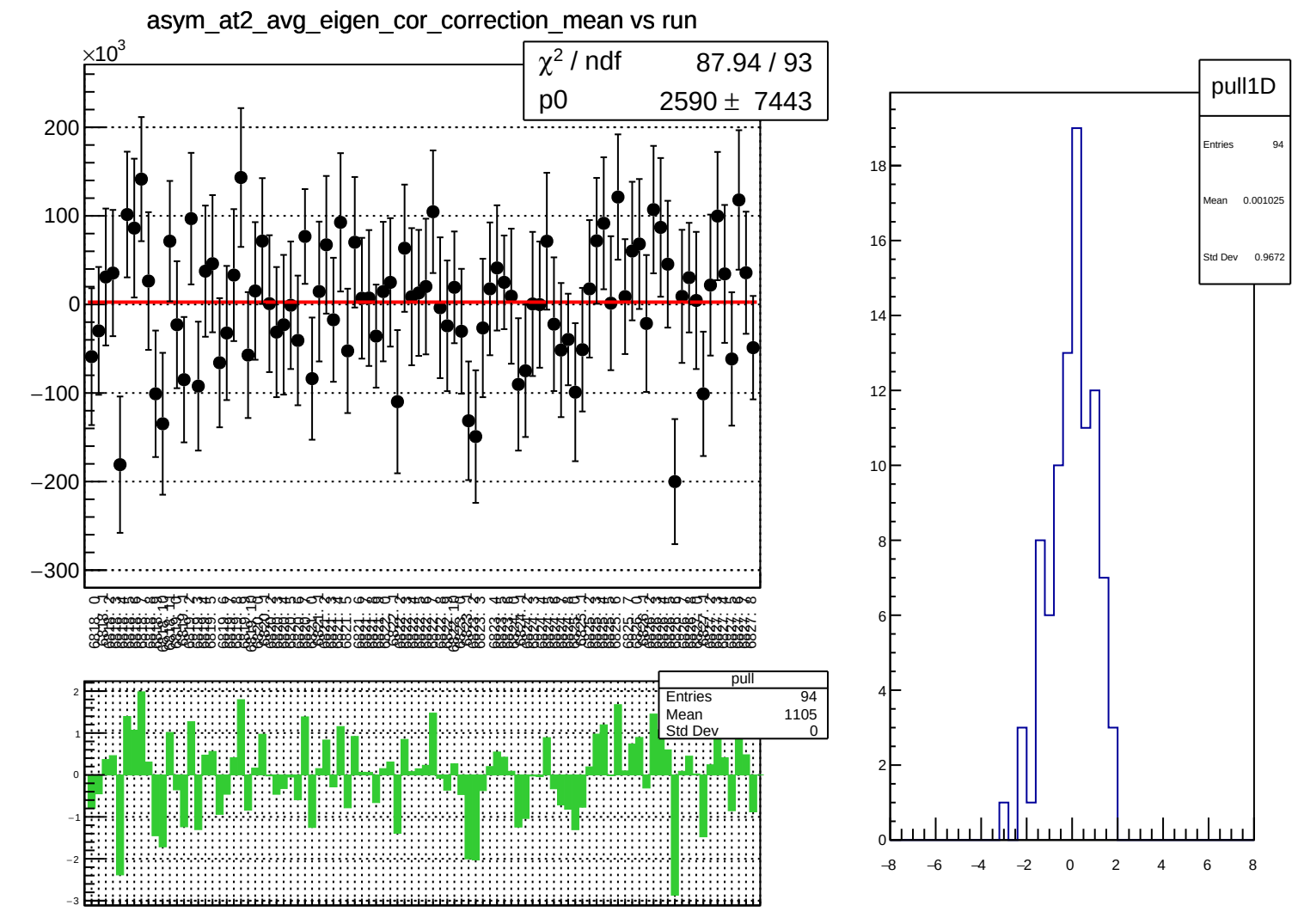

pull1D
Entries 94
Mean 0.001025
Std Dev 0.9672

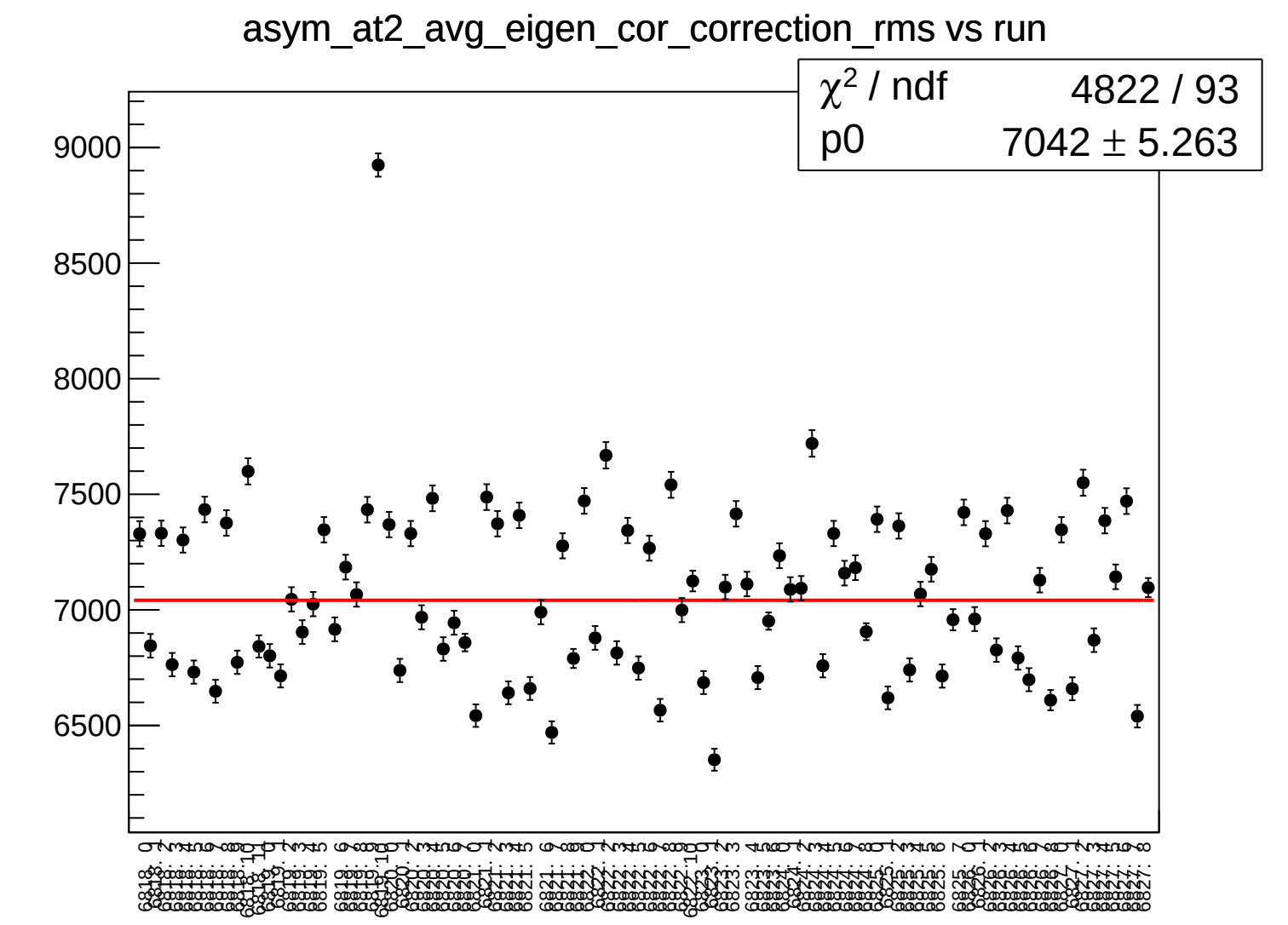

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4822 / 93
p0 7042 ± 5.263
9000
8500
8000
7500
7000
6500

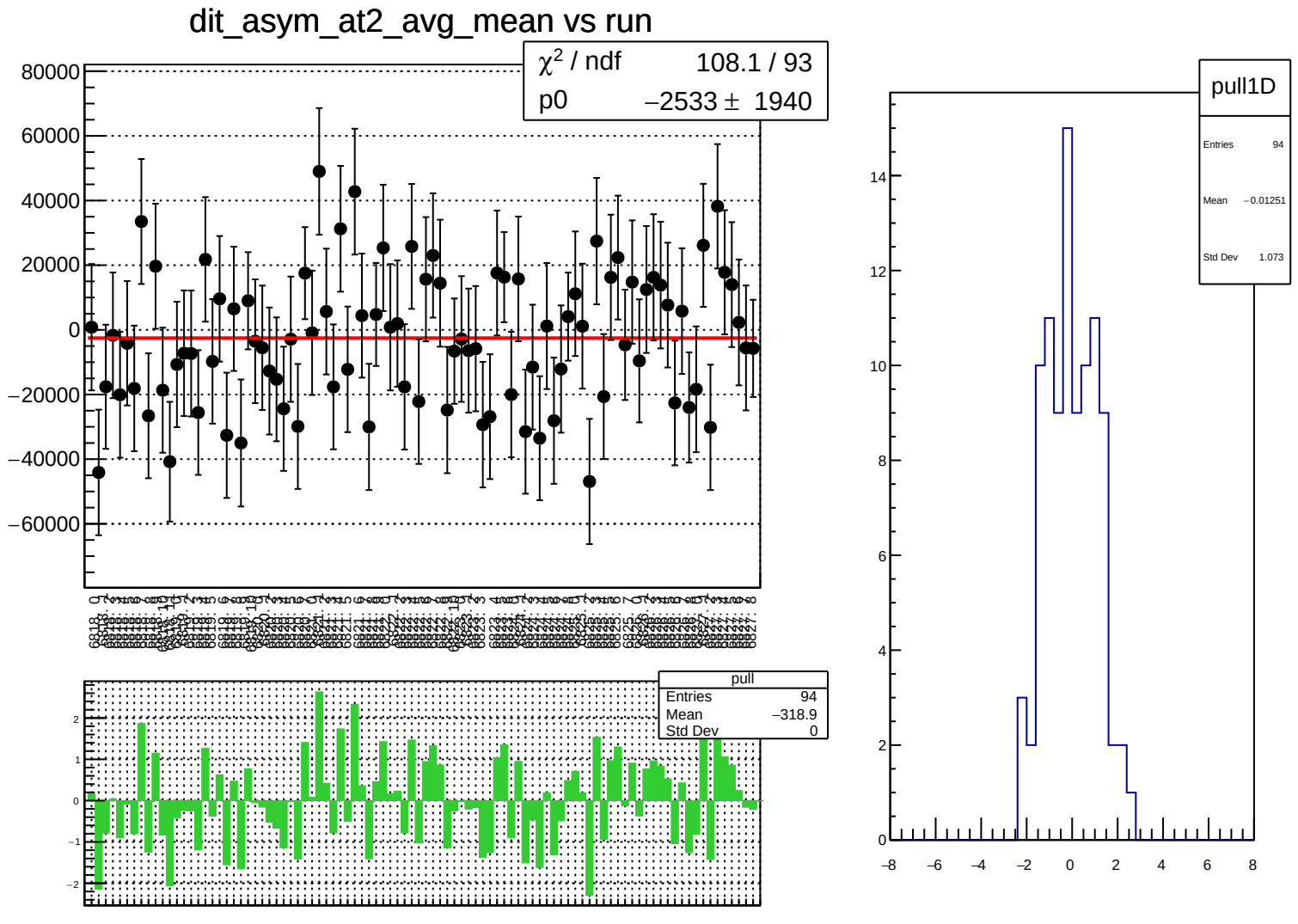

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 109.8 / 93
p0 −2868 ± 1846
pull
Entries 94
Mean −238.1
Std Dev 0

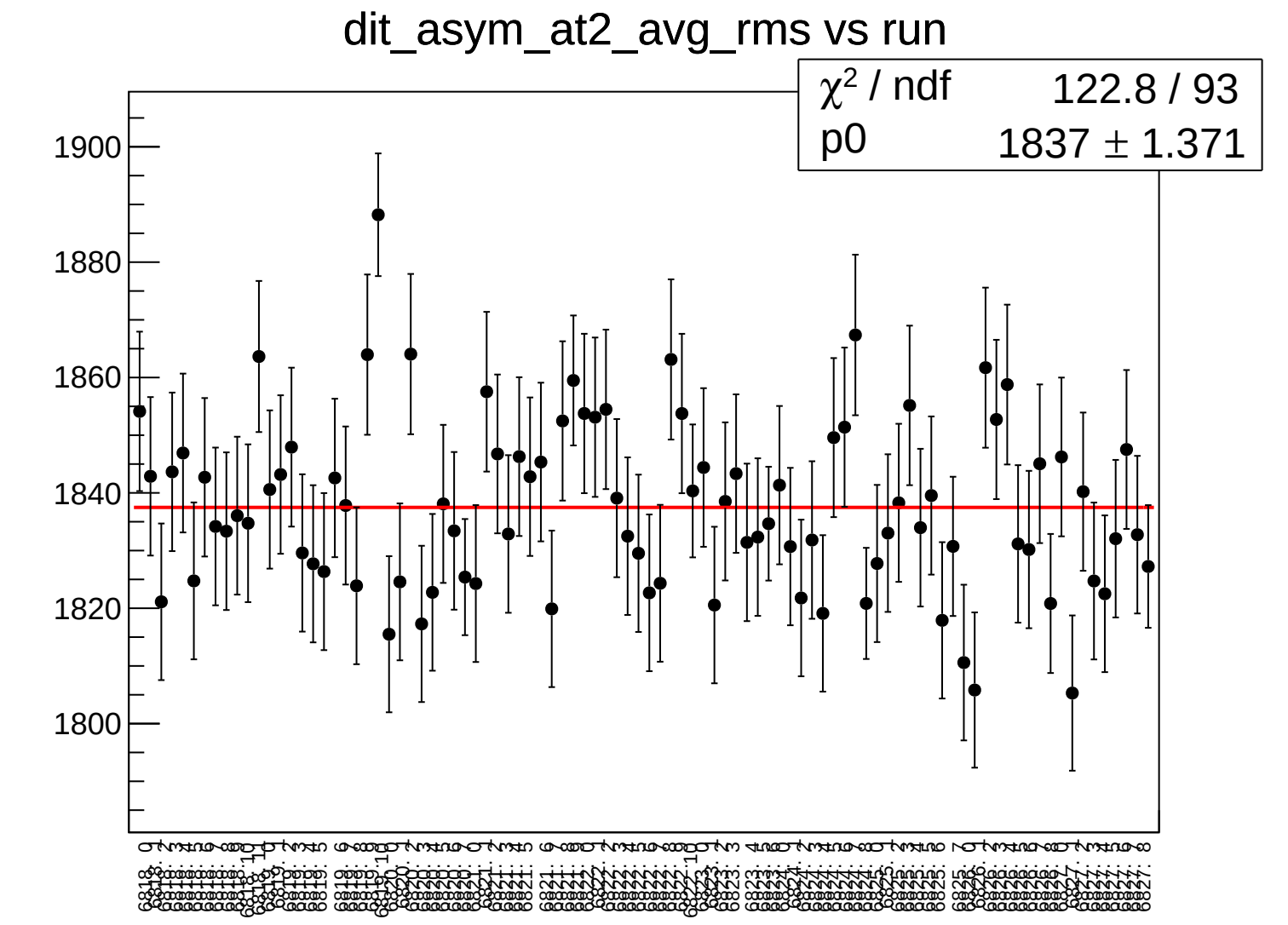

pull1D
Entries 94
Mean −0.01537
Std Dev 1.081

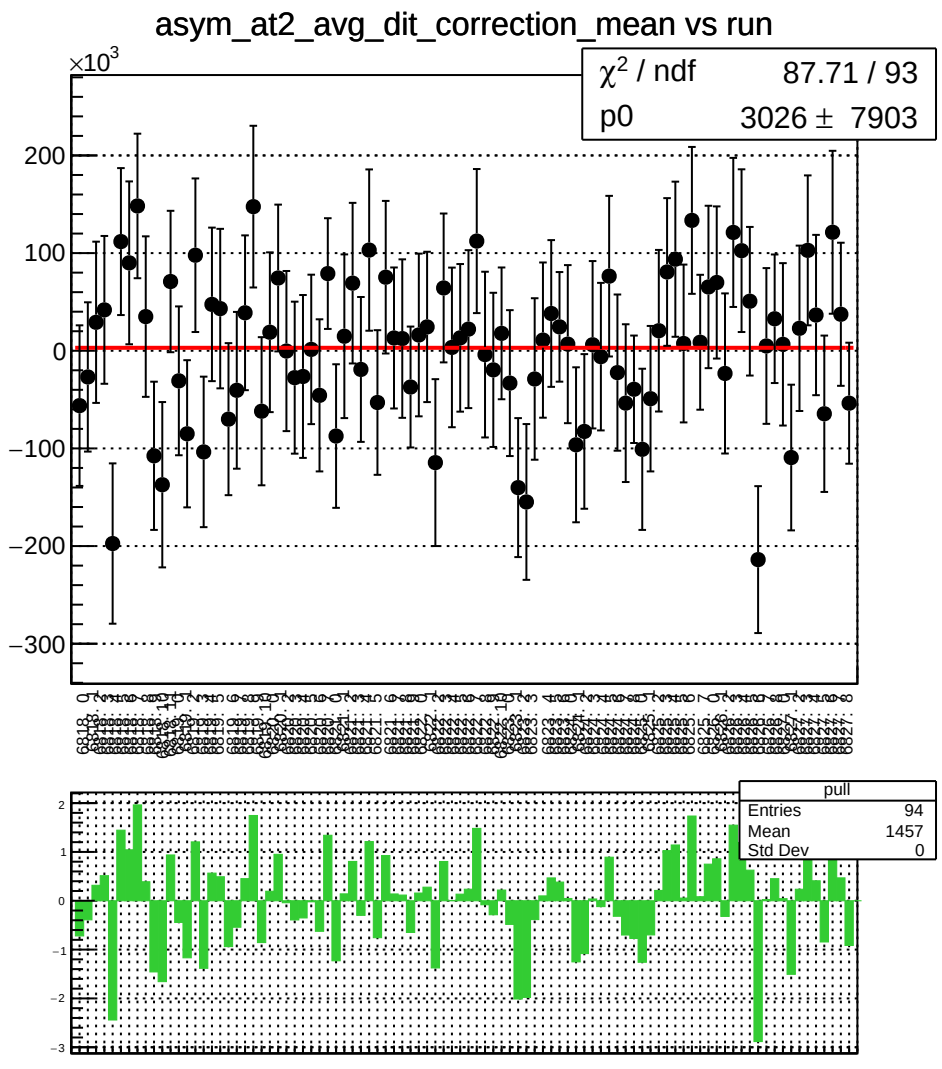

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 110.2 / 93
p0 1749 ± 1.305
1800
1780
1760
1740
1720
1700

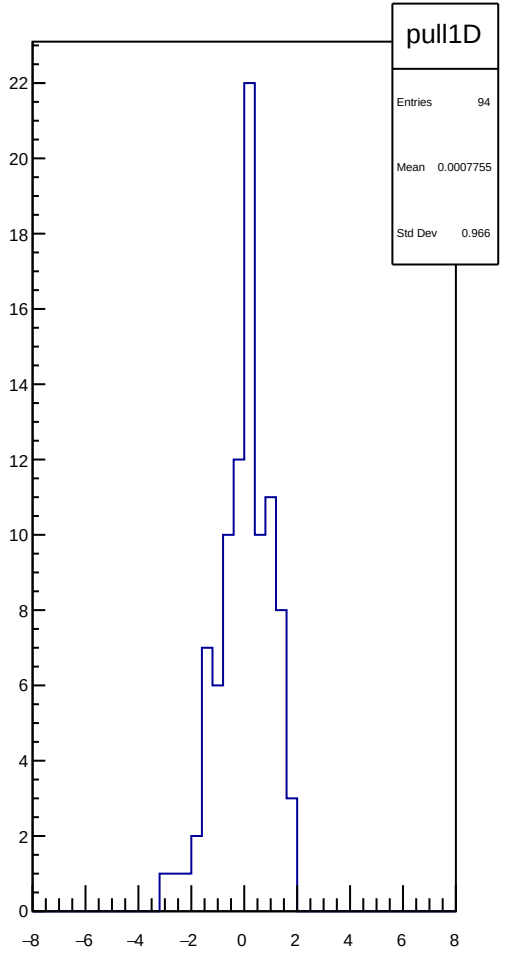

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.94 / 93
p0 2590 ± 7443
200
100
0
−100
−200
−300
pull
Entries 94
Mean 1105
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.001025
Std Dev 0.9672
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

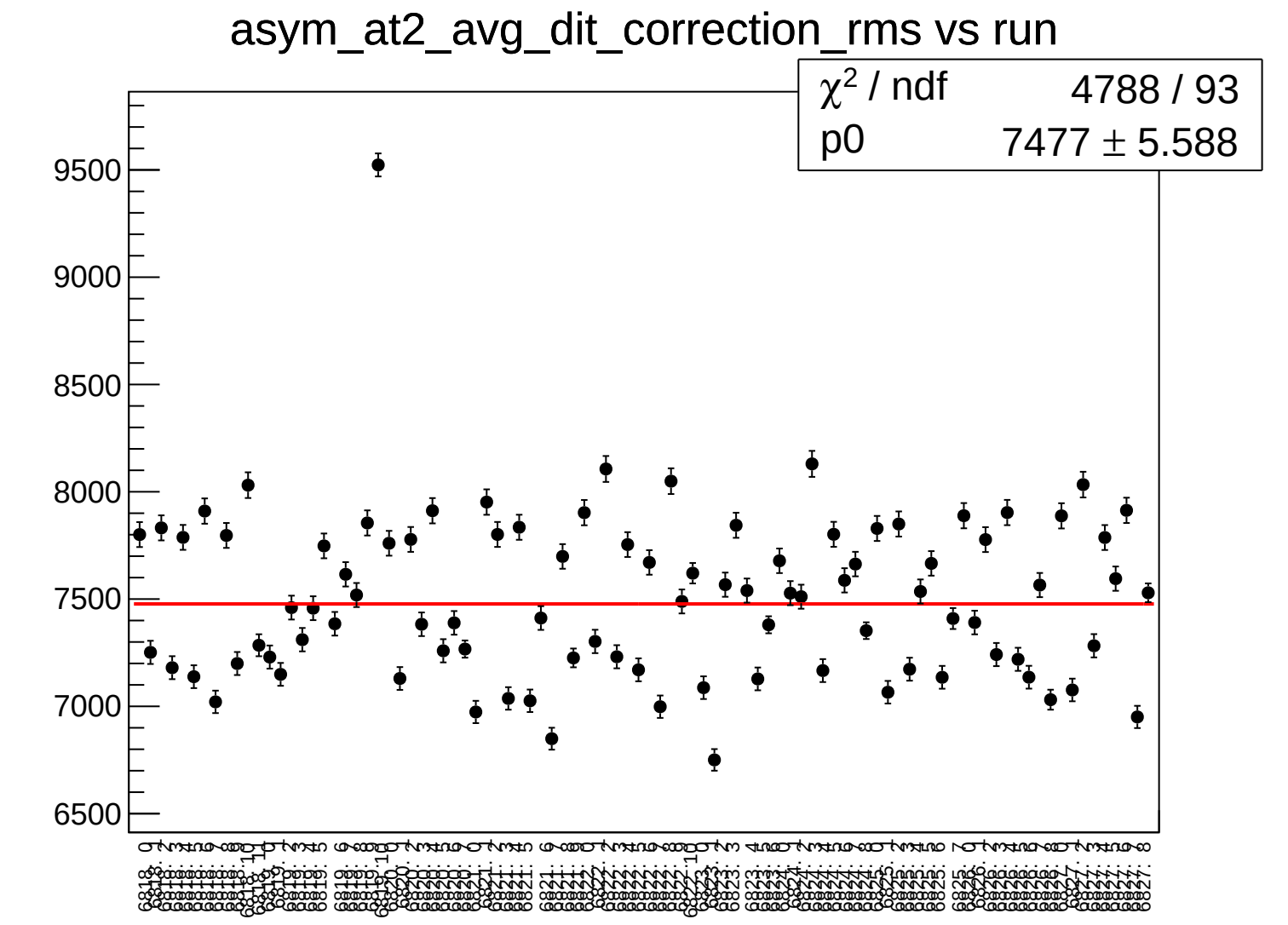

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4822 / 93
p0 7042 ± 5.263
9000
8500
8000
7500
7000
6500

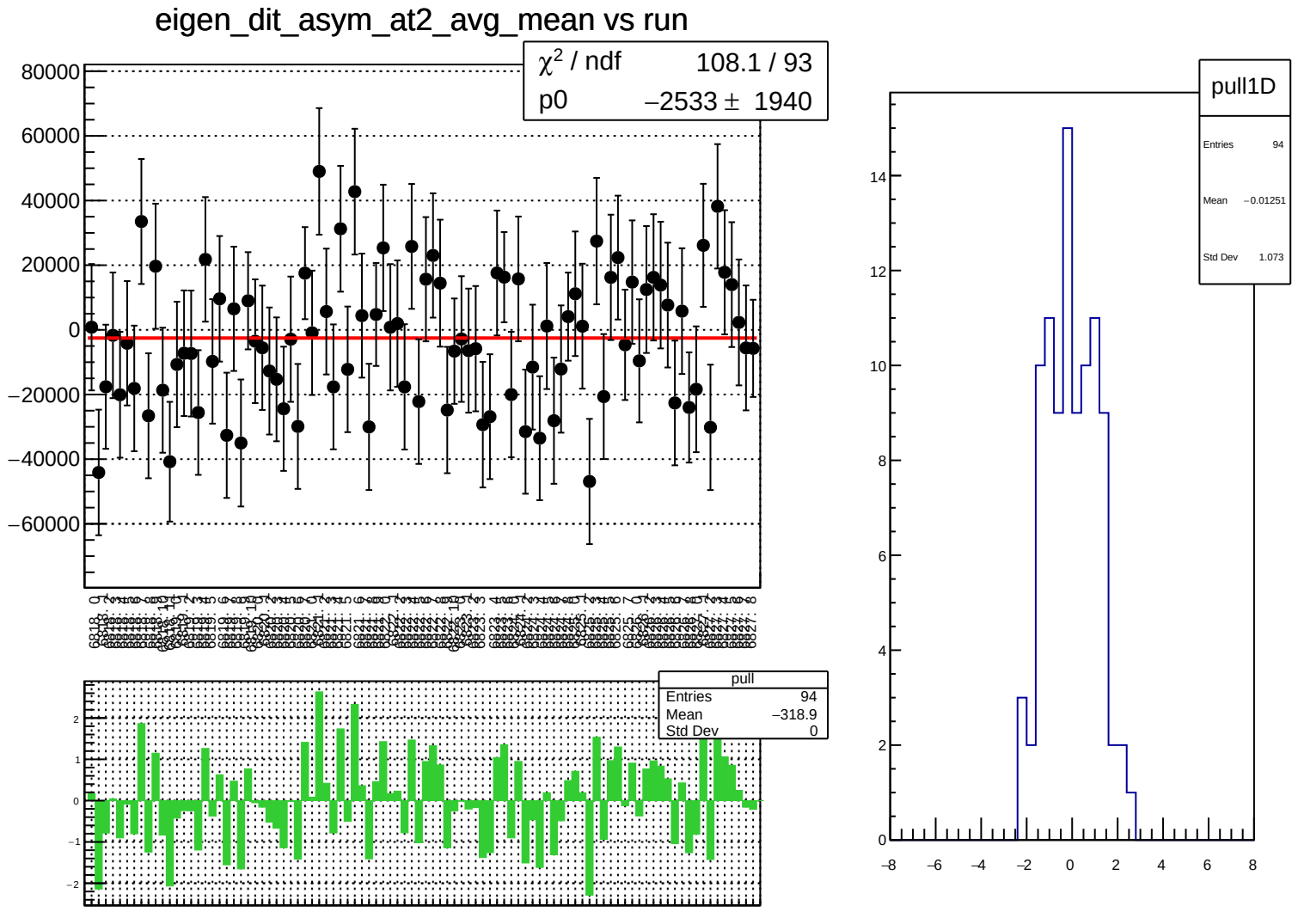

dit_asym_at2_avg_mean vs run
χ² / ndf 108.1 / 93
p0 −2533 ± 1940
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −318.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01251
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

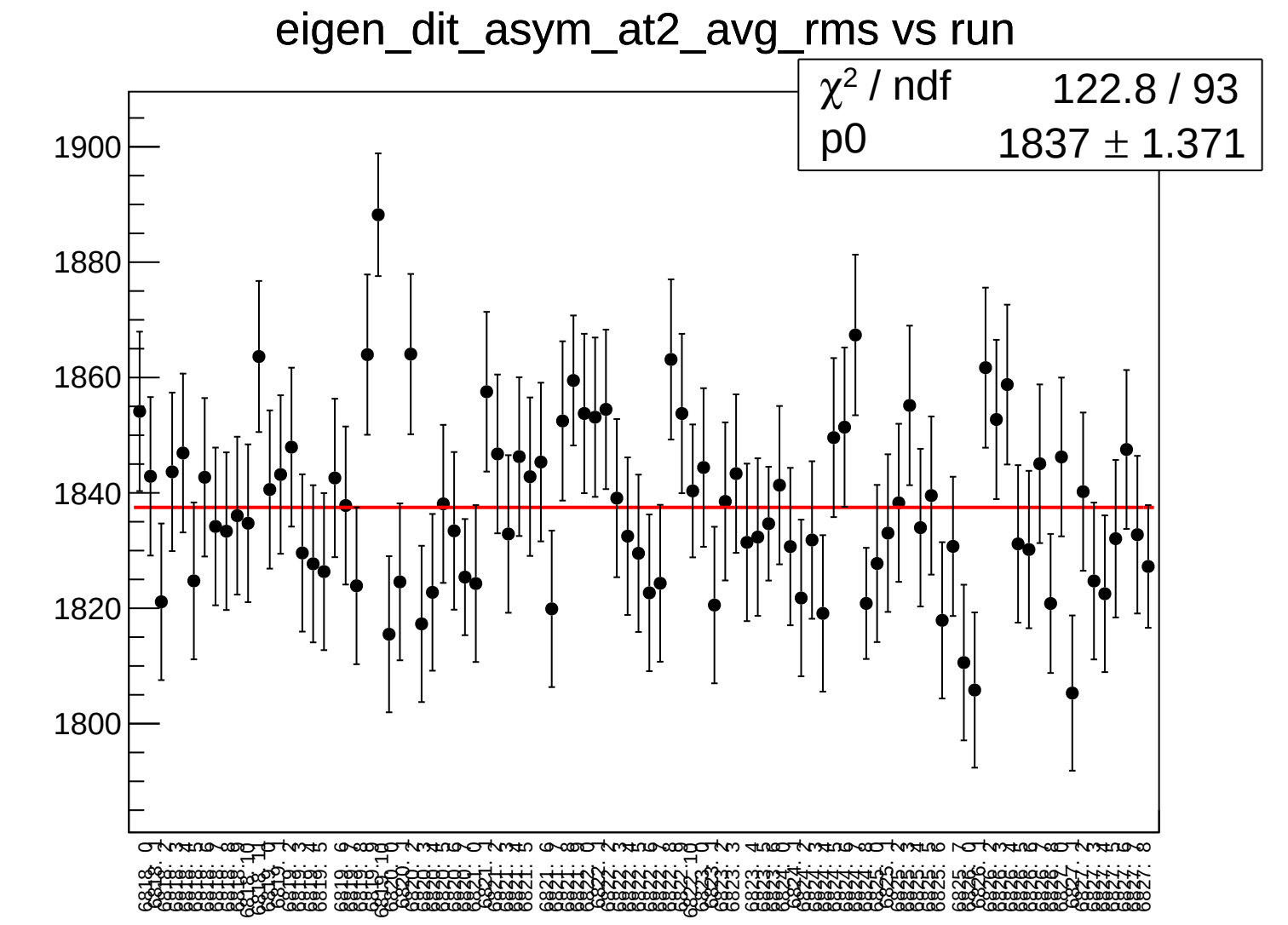

dit_asym_at2_avg_rms vs run
χ² / ndf 122.8 / 93
p0 1837 ± 1.371
1900
1880
1860
1840
1820
1800

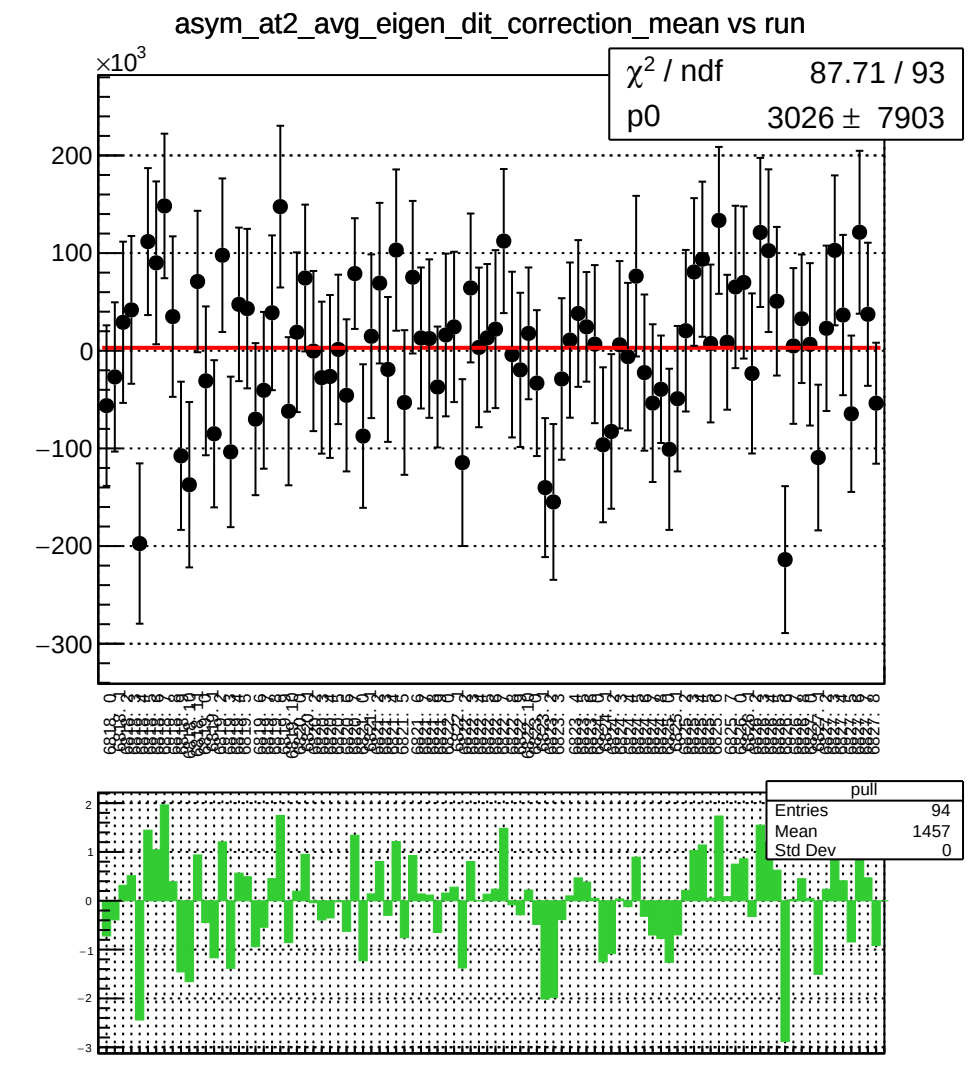

asym_at2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.71 / 93
p0 3026 ± 7903
200
100
0
−100
−200
−300
pull
Entries 94
Mean 1457
Std Dev 0
2
1
0
−1
−2
−3

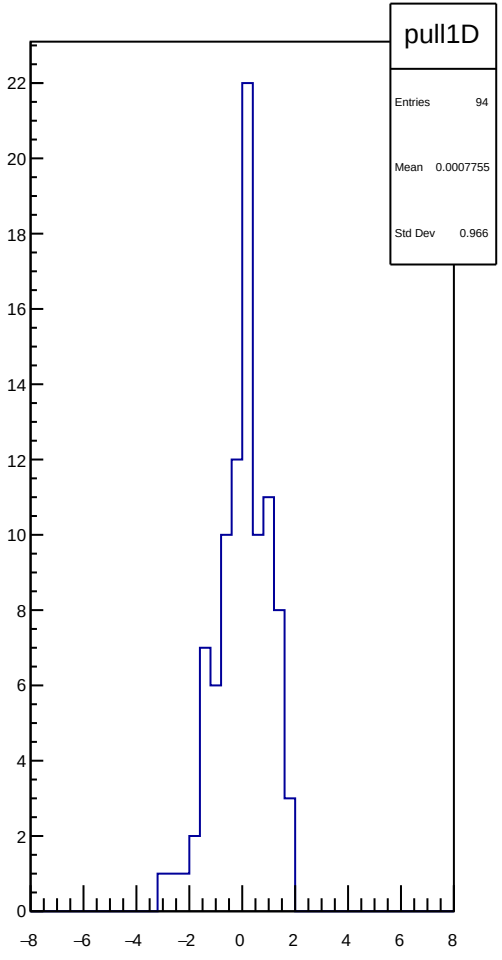

pull1D
Entries 94
Mean 0.0007755
Std Dev 0.966
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

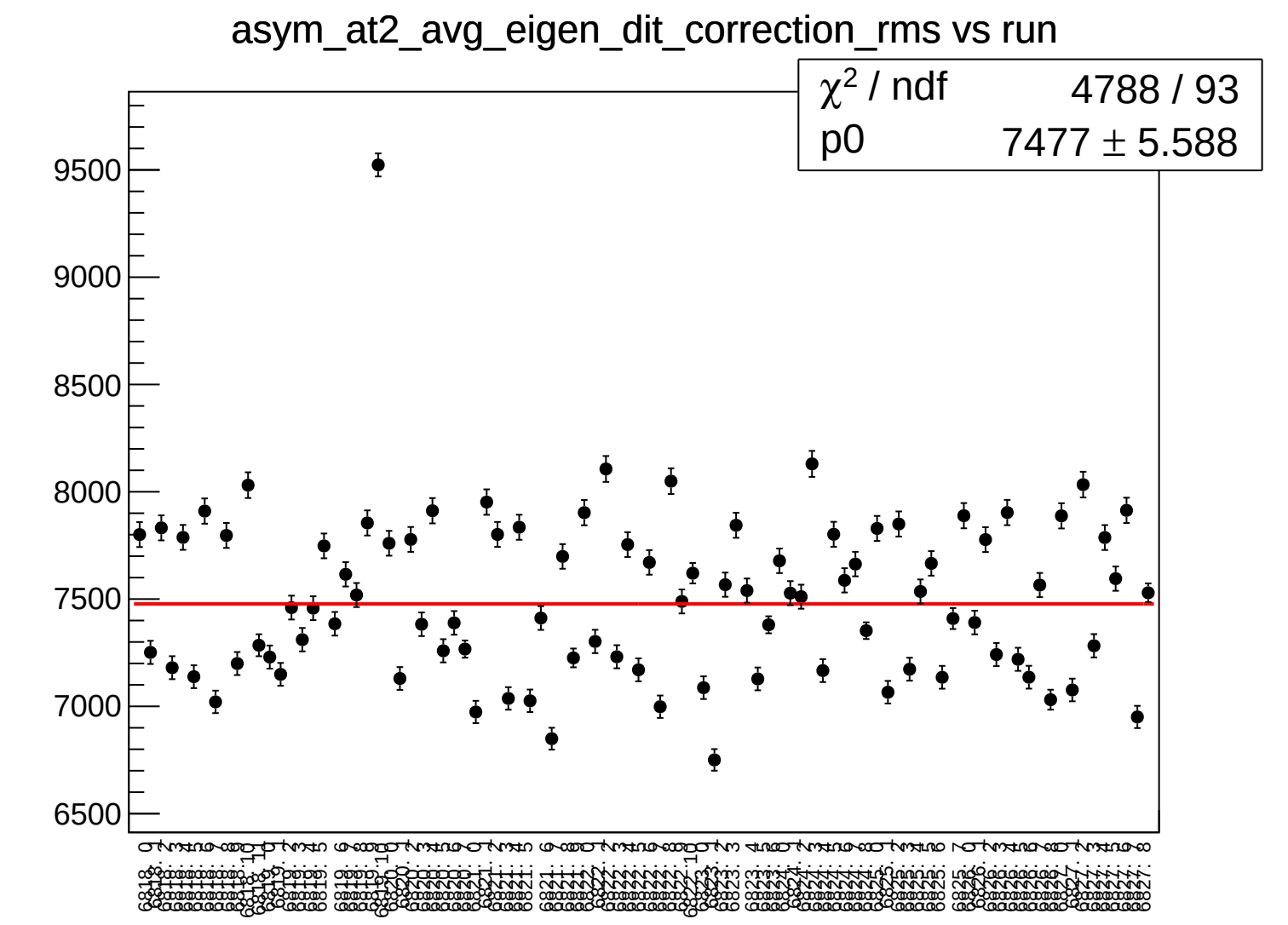

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 4788 / 93
p0 7477 ± 5.588
9500
9000
8500
8000
7500
7000
6500

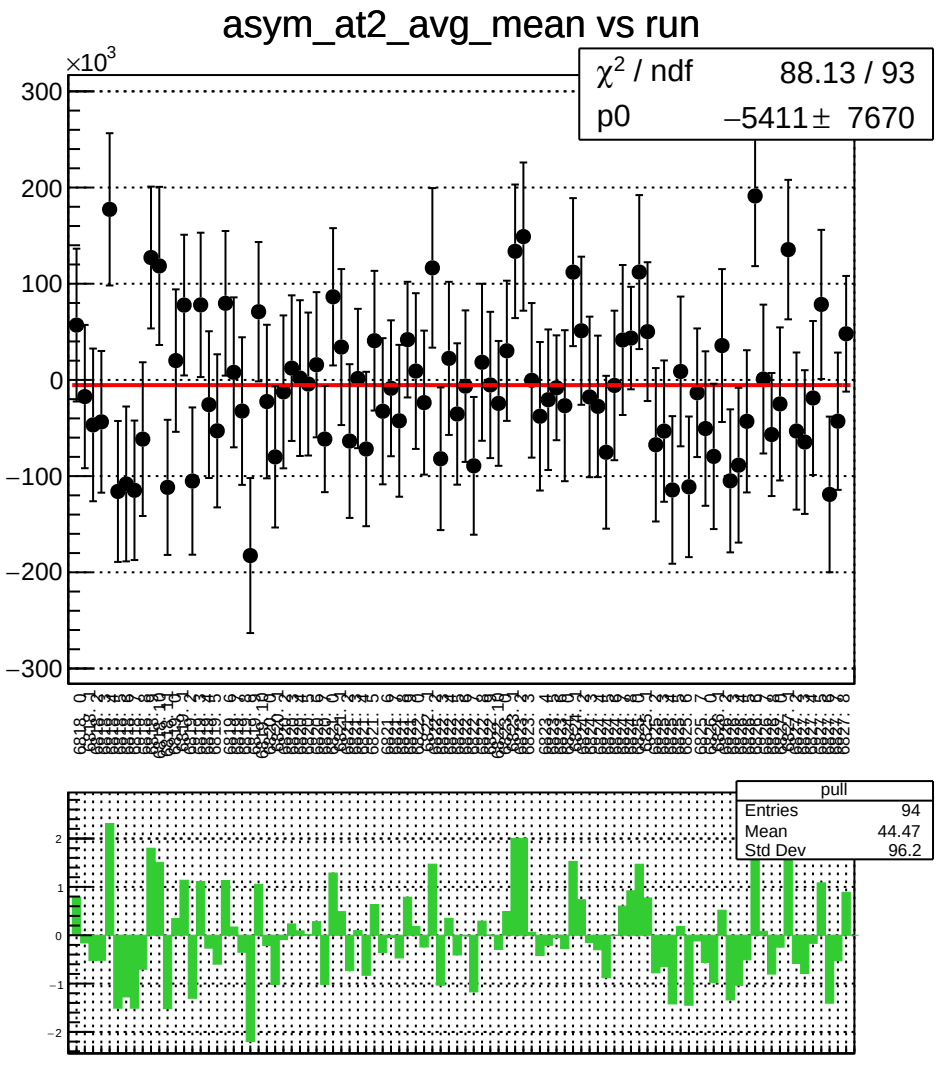

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 108.1 / 93
p0 −2533 ± 1940
pull
Entries 94
Mean −318.9
Std Dev 0
pull1D
Entries 94
Mean −0.01251
Std Dev 1.073

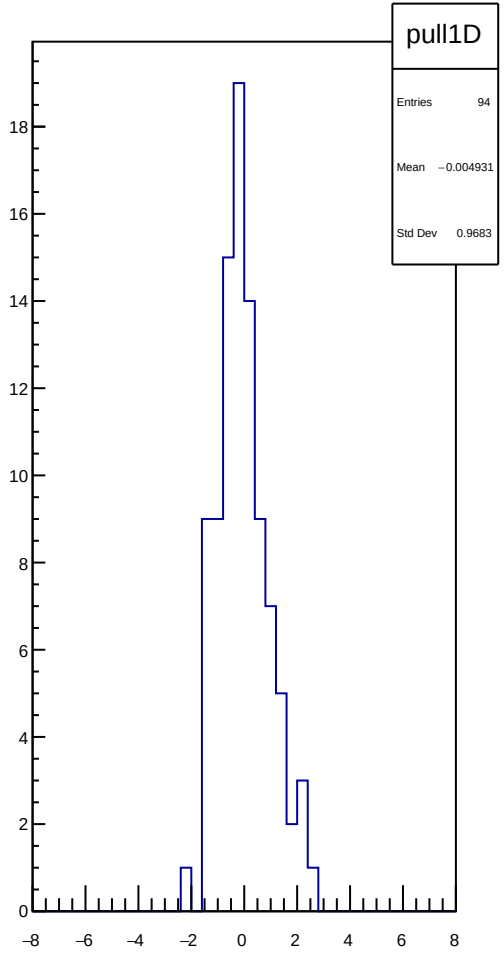

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 122.8 / 93
p0 1837 ± 1.371
1900
1880
1860
1840
1820
1800

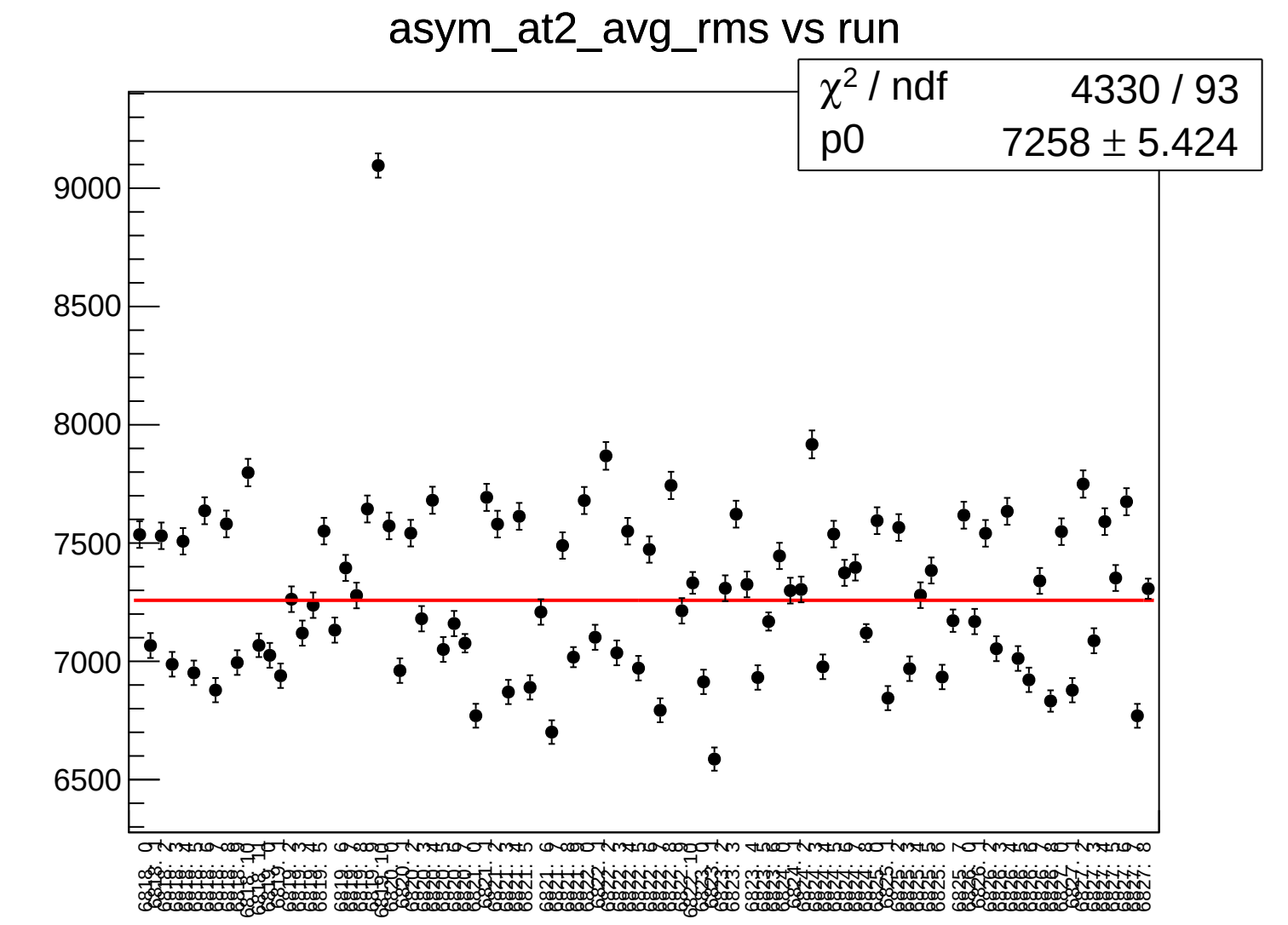

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.71 / 93
p0 3026 ± 7903
200
100
0
−100
−200
−300
pull
Entries 94
Mean 1457
Std Dev 0
2
1
0
−1
−2
−3

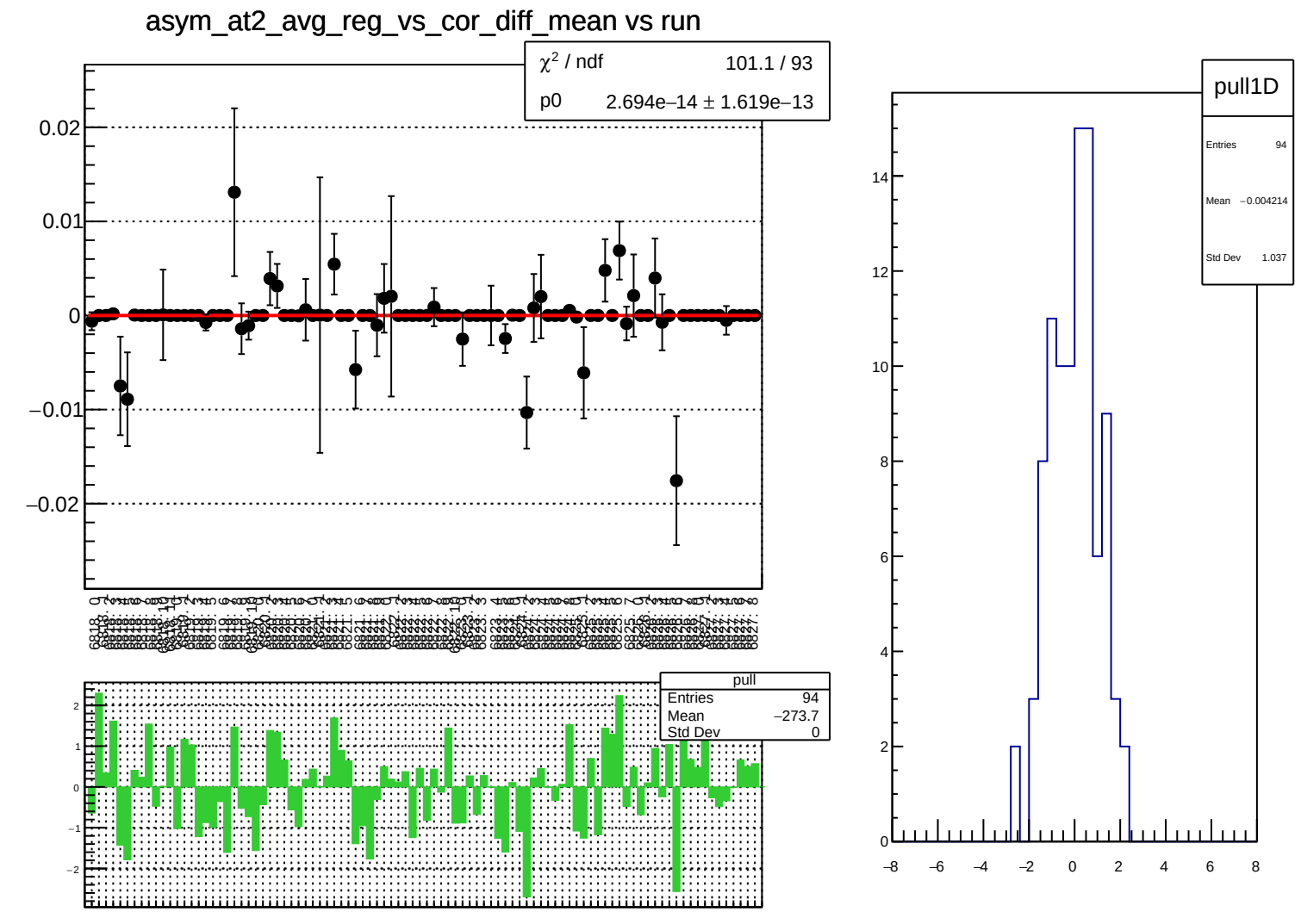

pull1D
Entries 94
Mean 0.0007755
Std Dev 0.966
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

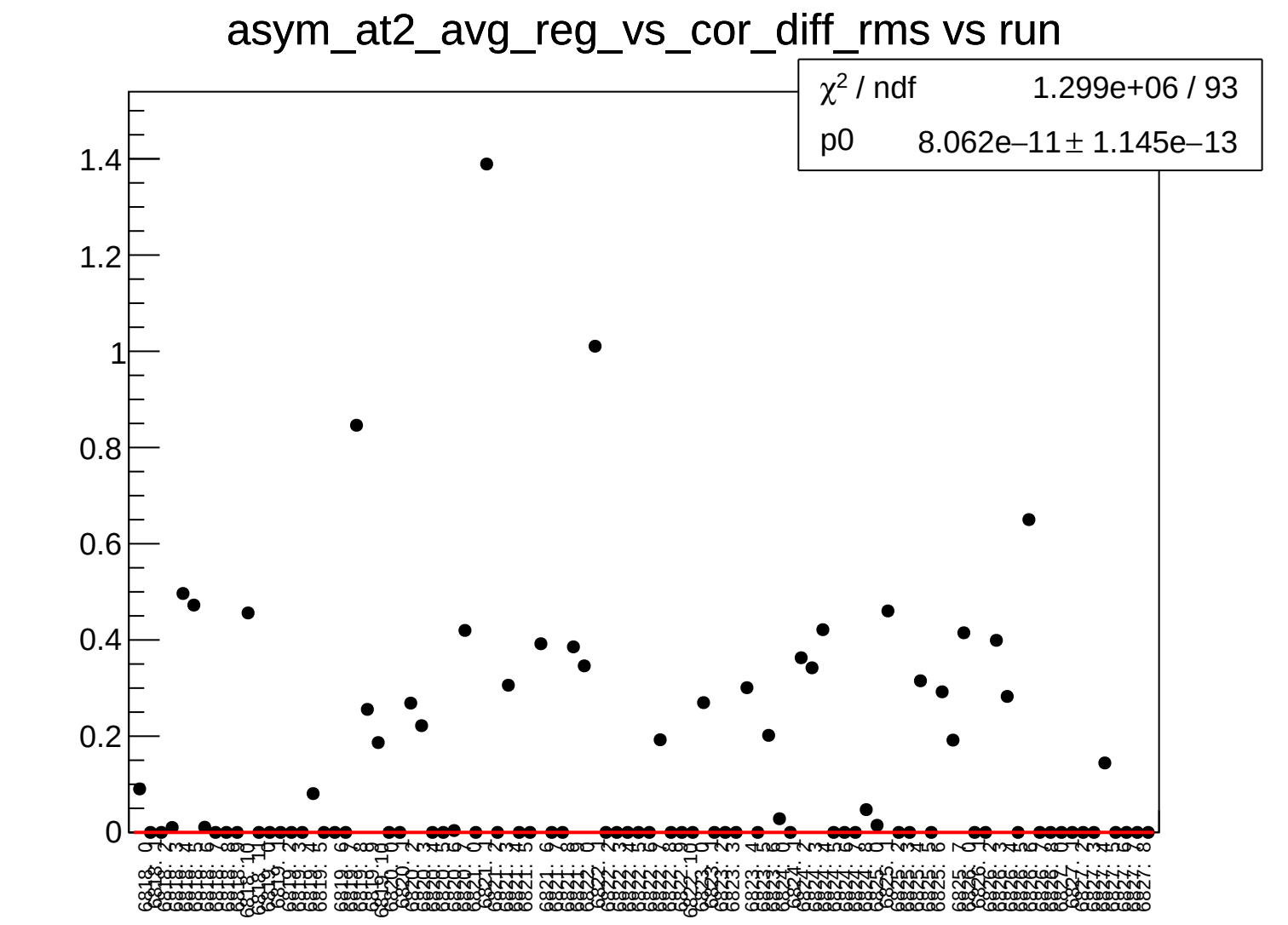

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4788 / 93
p0 7477 ± 5.588
9500
9000
8500
8000
7500
7000
6500

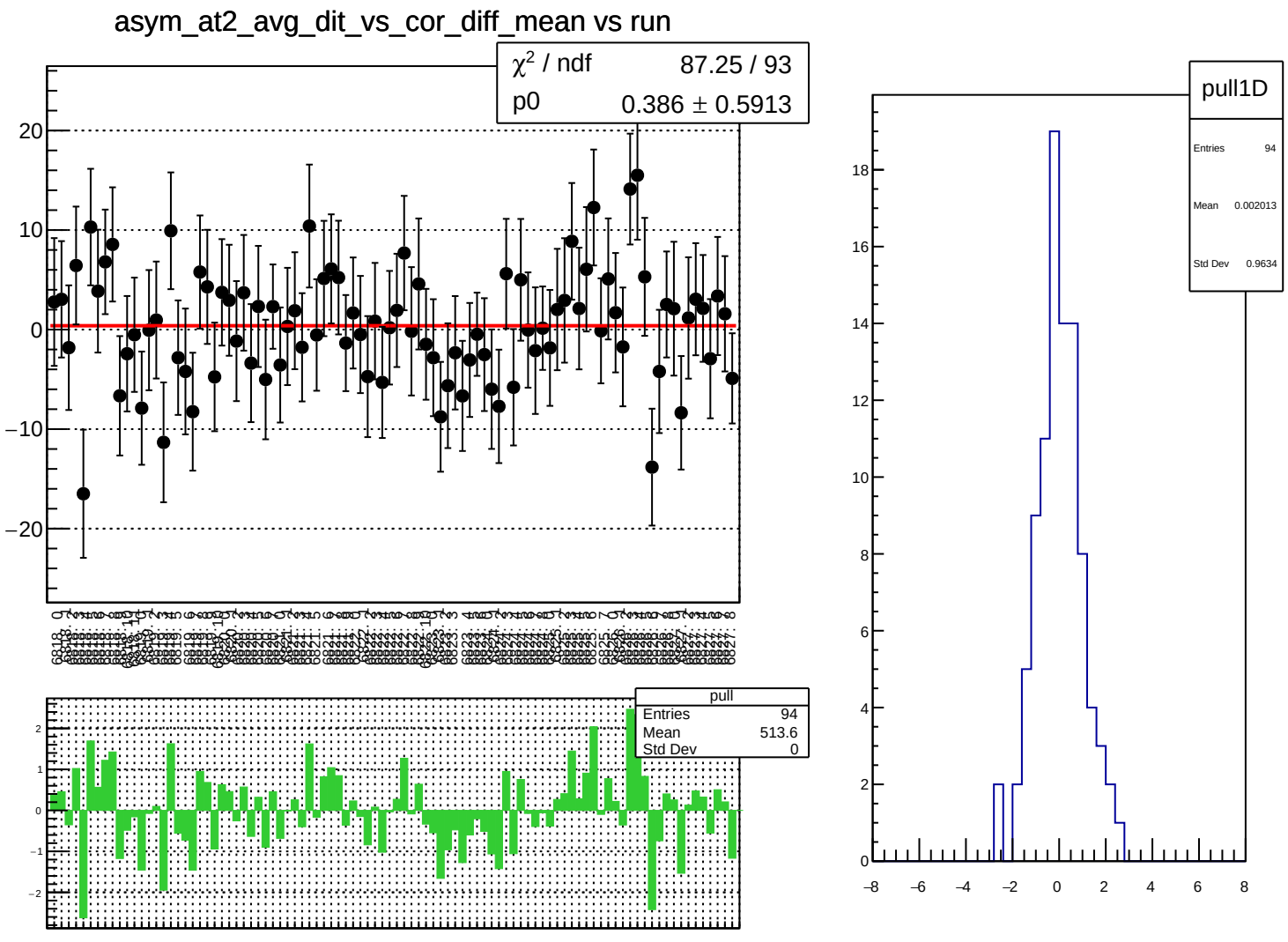

asym_at2_avg_mean vs run
×10^3
χ² / ndf 88.13 / 93
p0 −5411 ± 7670
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 44.47
Std Dev 96.2
2
1
0
−1
−2

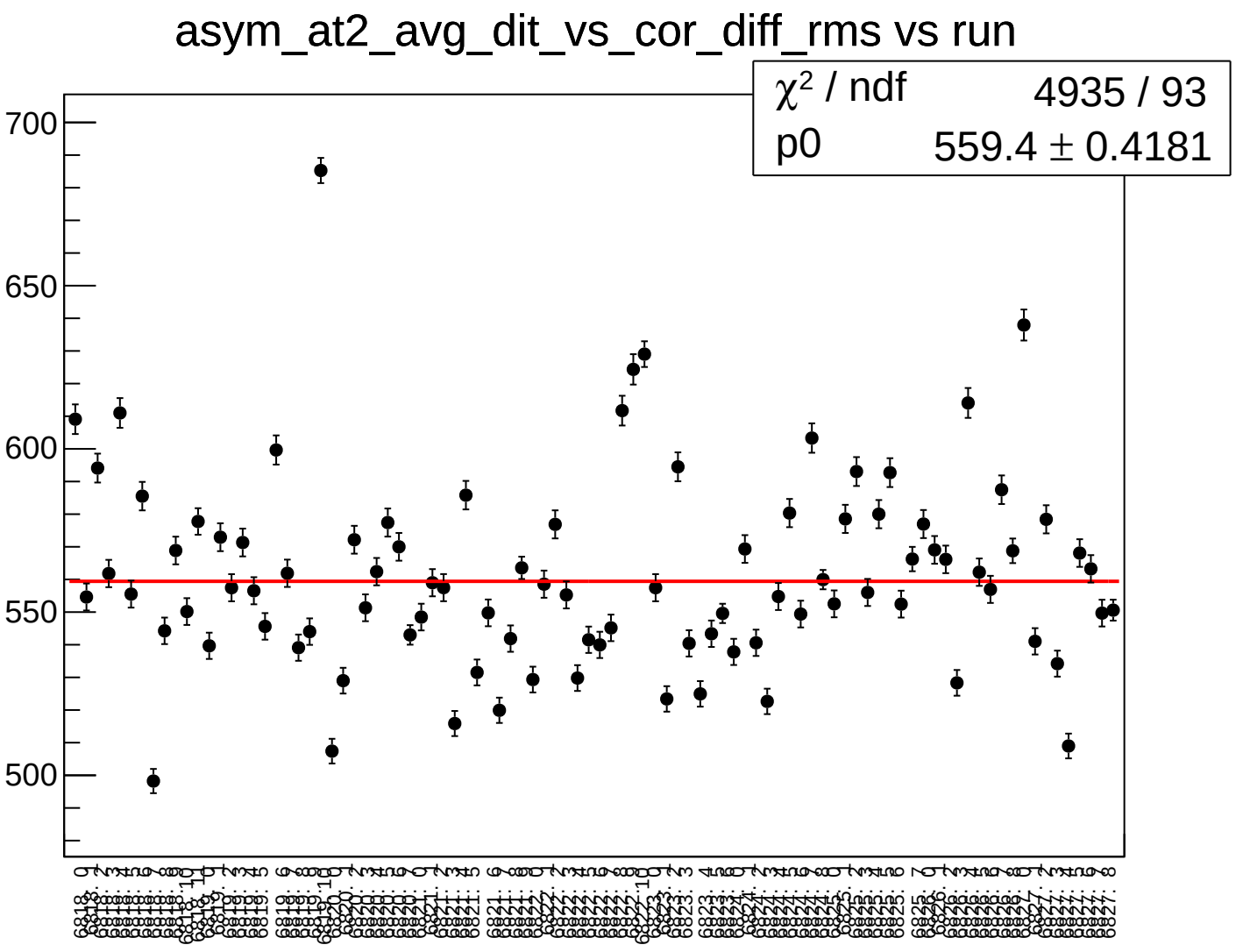

pull1D
Entries 94
Mean −0.004931
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

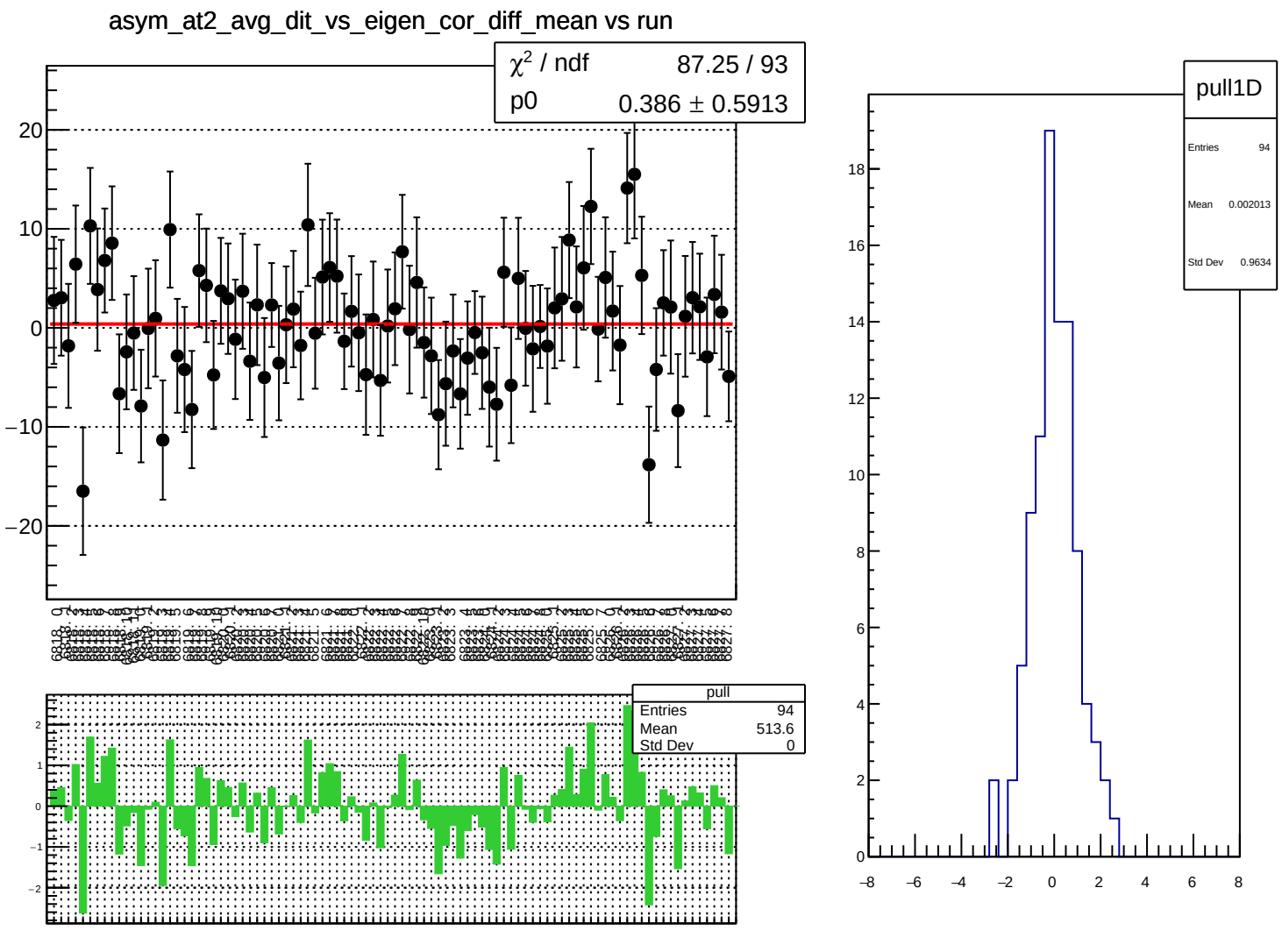

asym_at2_avg_rms vs run
χ² / ndf 4330 / 93
p0 7258 ± 5.424
9000
8500
8000
7500
7000
6500

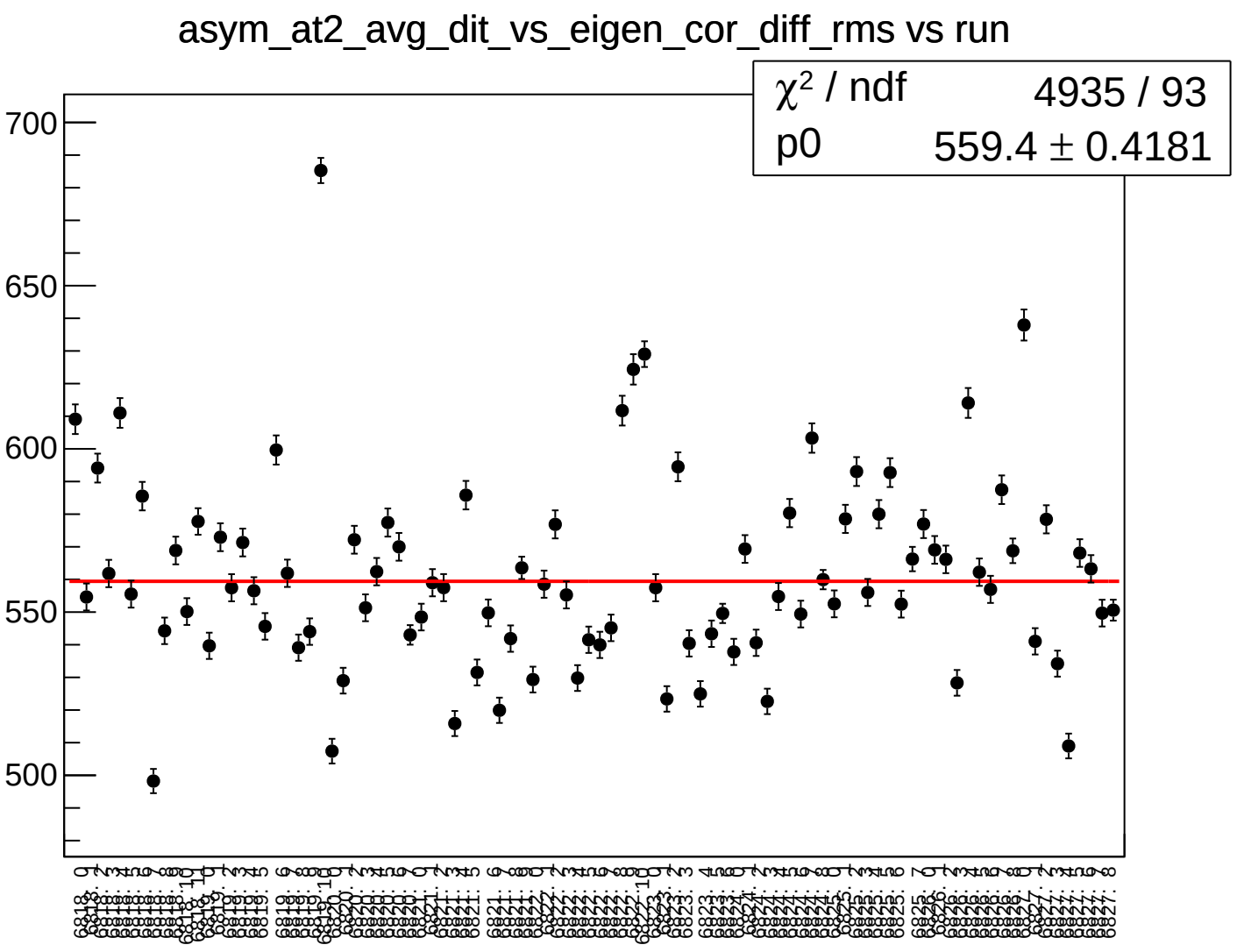

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 93
p0 2.694e−14 ± 1.619e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −273.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004214
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

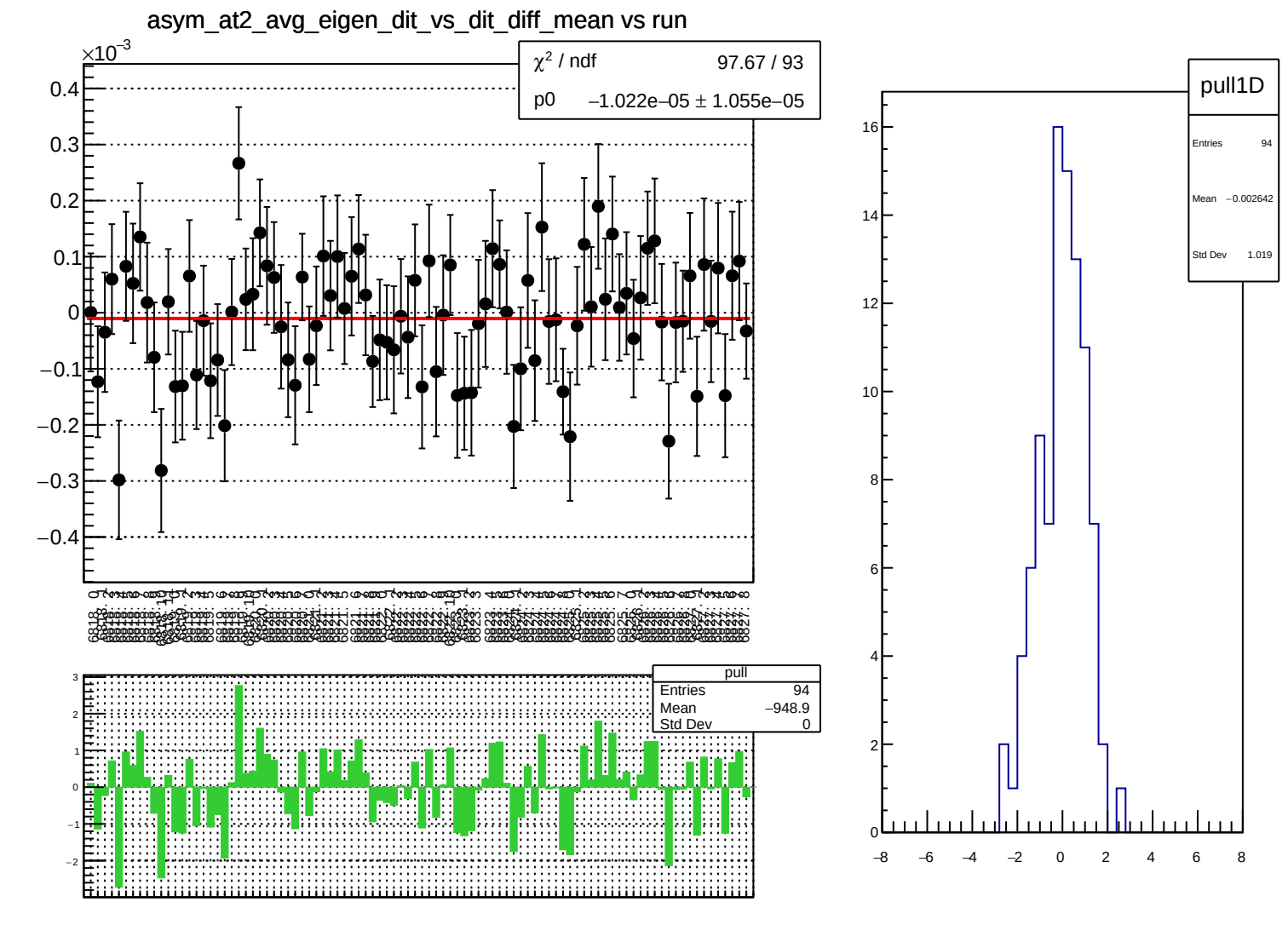

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.299e+06 / 93
p0 8.062e−11 ± 1.145e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

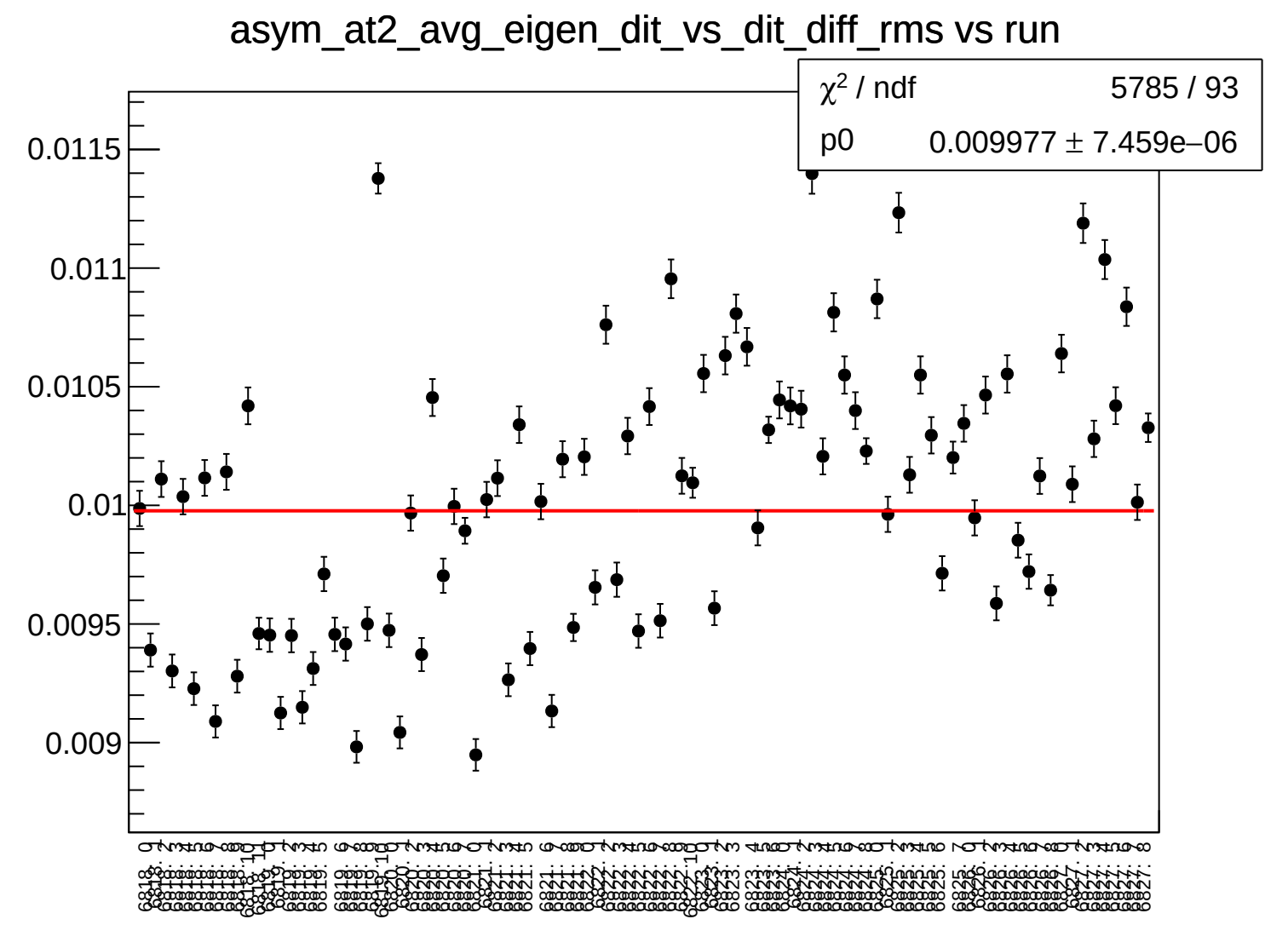

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.25 / 93
p0 0.386 ± 0.5913
pull
Entries 94
Mean 513.6
Std Dev 0
pull1D
Entries 94
Mean 0.002013
Std Dev 0.9634

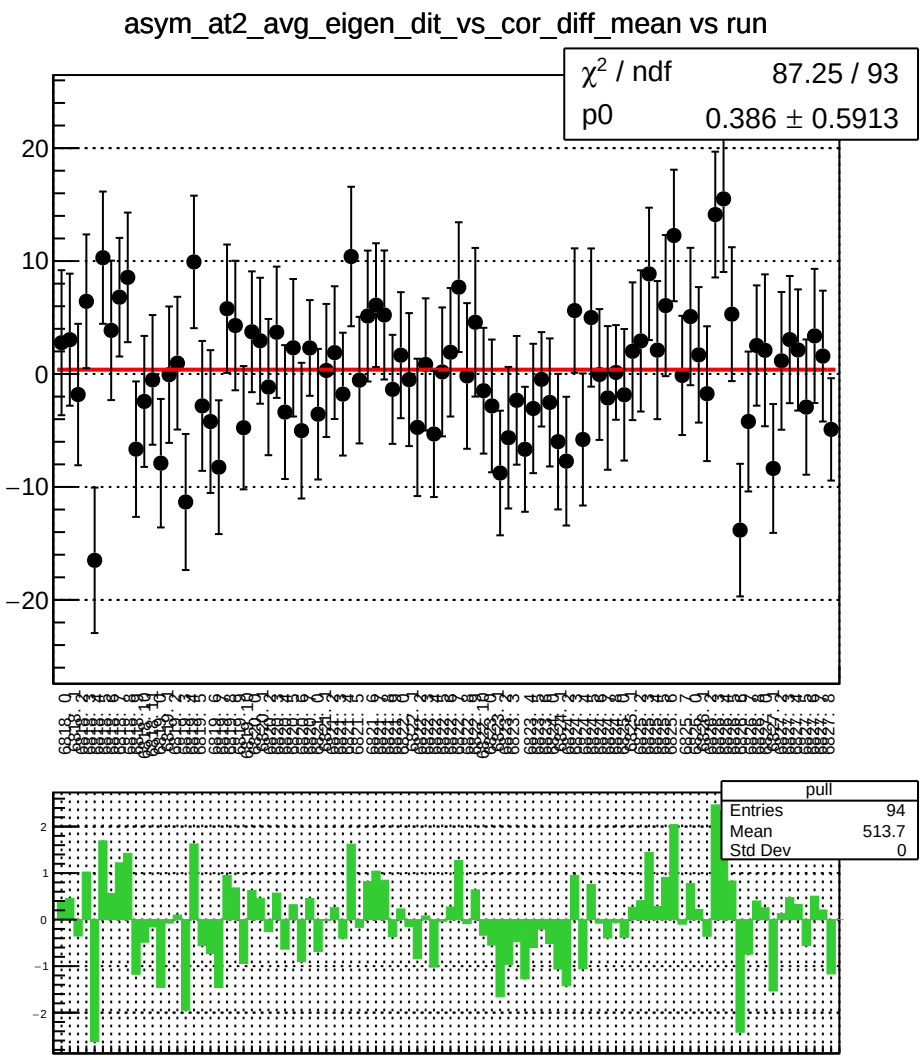

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4935 / 93
p0 559.4 ± 0.4181
700
650
600
550
500

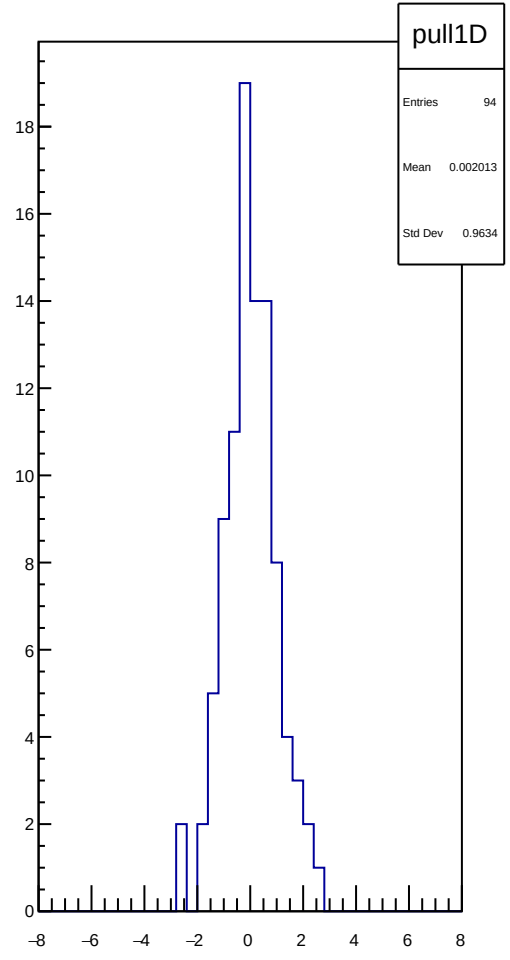

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.25 / 93
p0 0.386 ± 0.5913
pull
Entries 94
Mean 513.6
Std Dev 0
pull1D
Entries 94
Mean 0.002013
Std Dev 0.9634

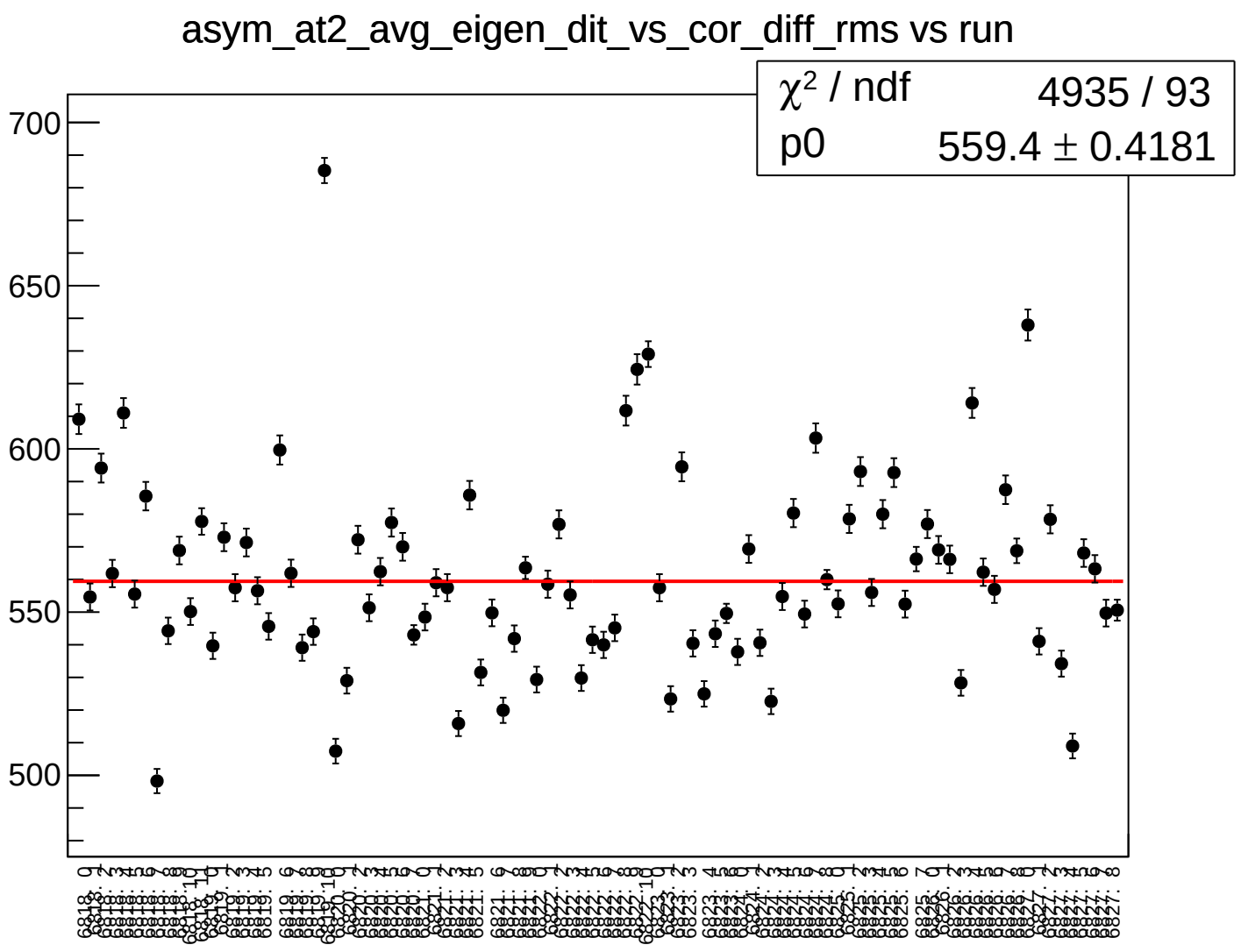

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4935 / 93
p0 559.4 ± 0.4181
700
650
600
550
500

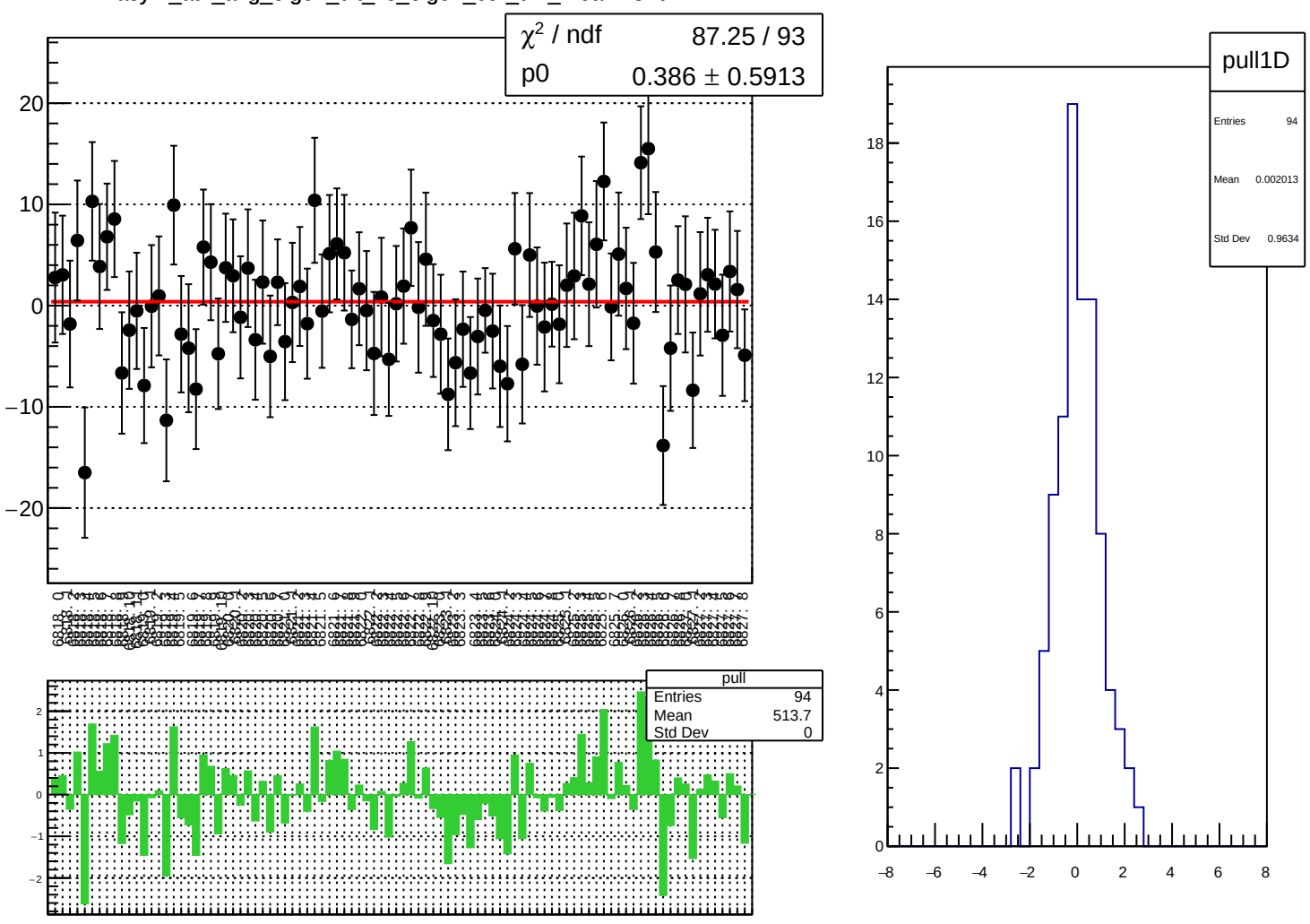

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.67 / 93
p0 −1.022e−05 ± 1.055e−05
pull
Entries 94
Mean −948.9
Std Dev 0
pull1D
Entries 94
Mean −0.002642
Std Dev 1.019

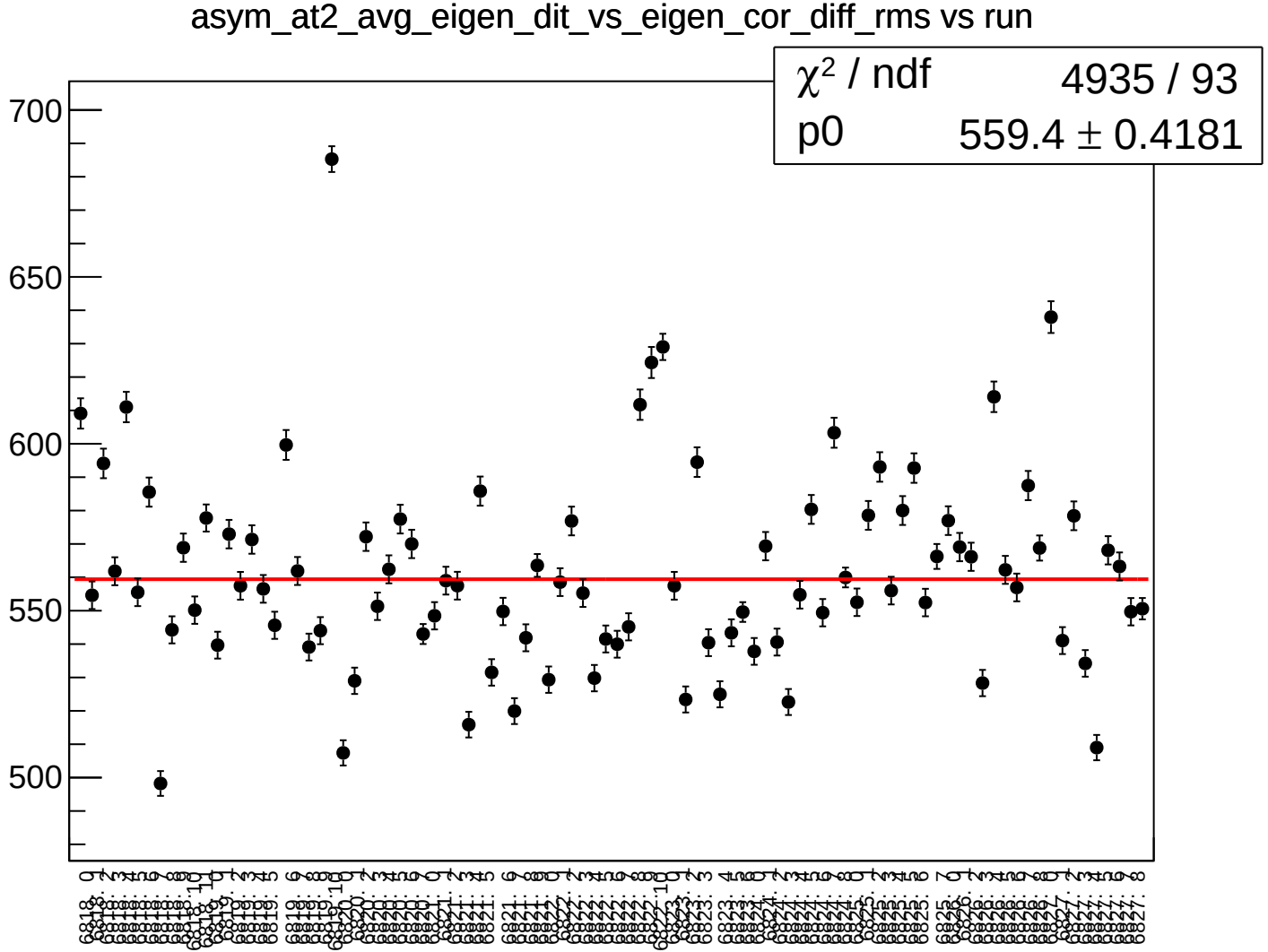

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5785 / 93
p0 0.009977 ± 7.459e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

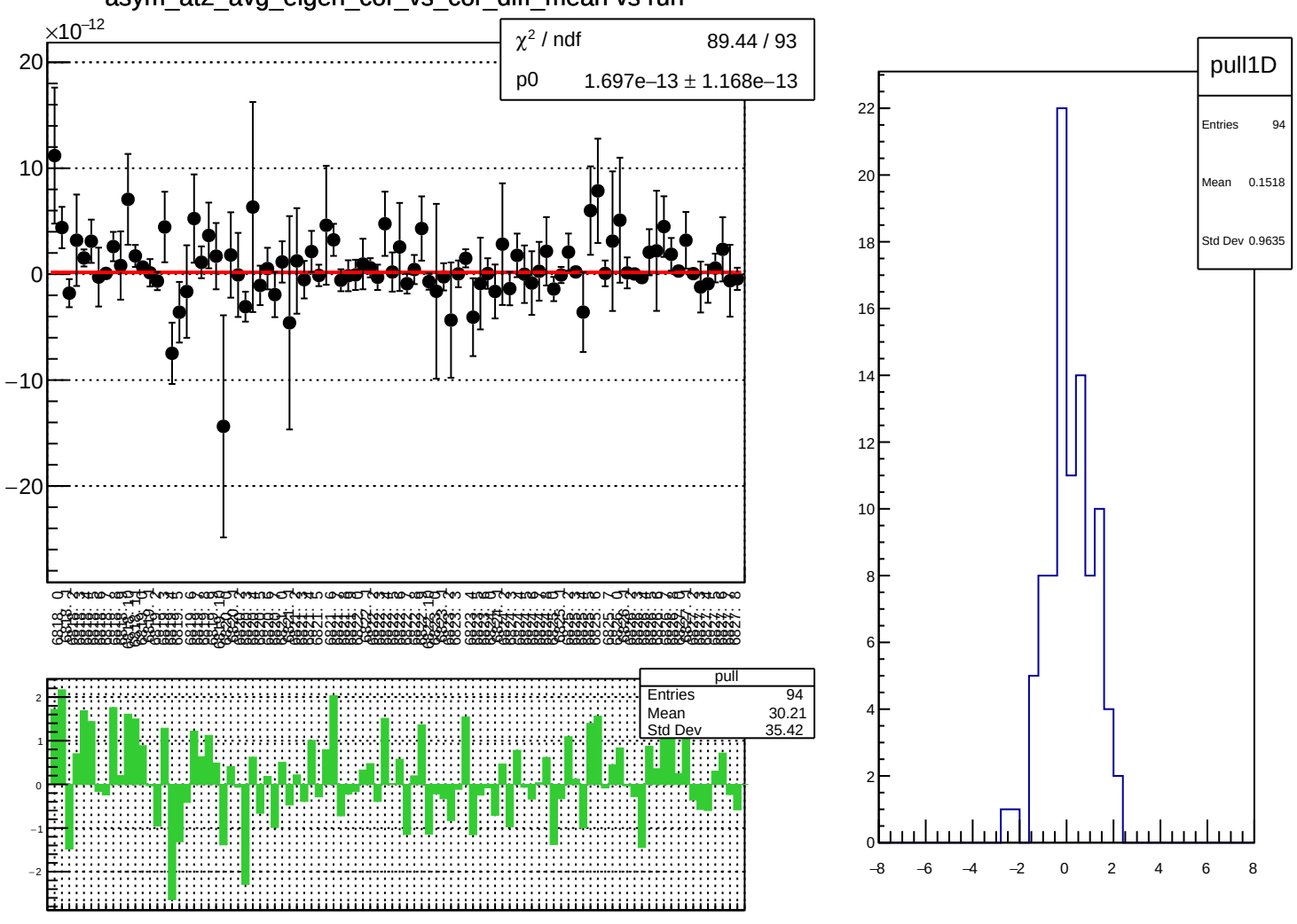

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.25 / 93
p0 0.386 ± 0.5913
pull
Entries 94
Mean 513.7
Std Dev 0

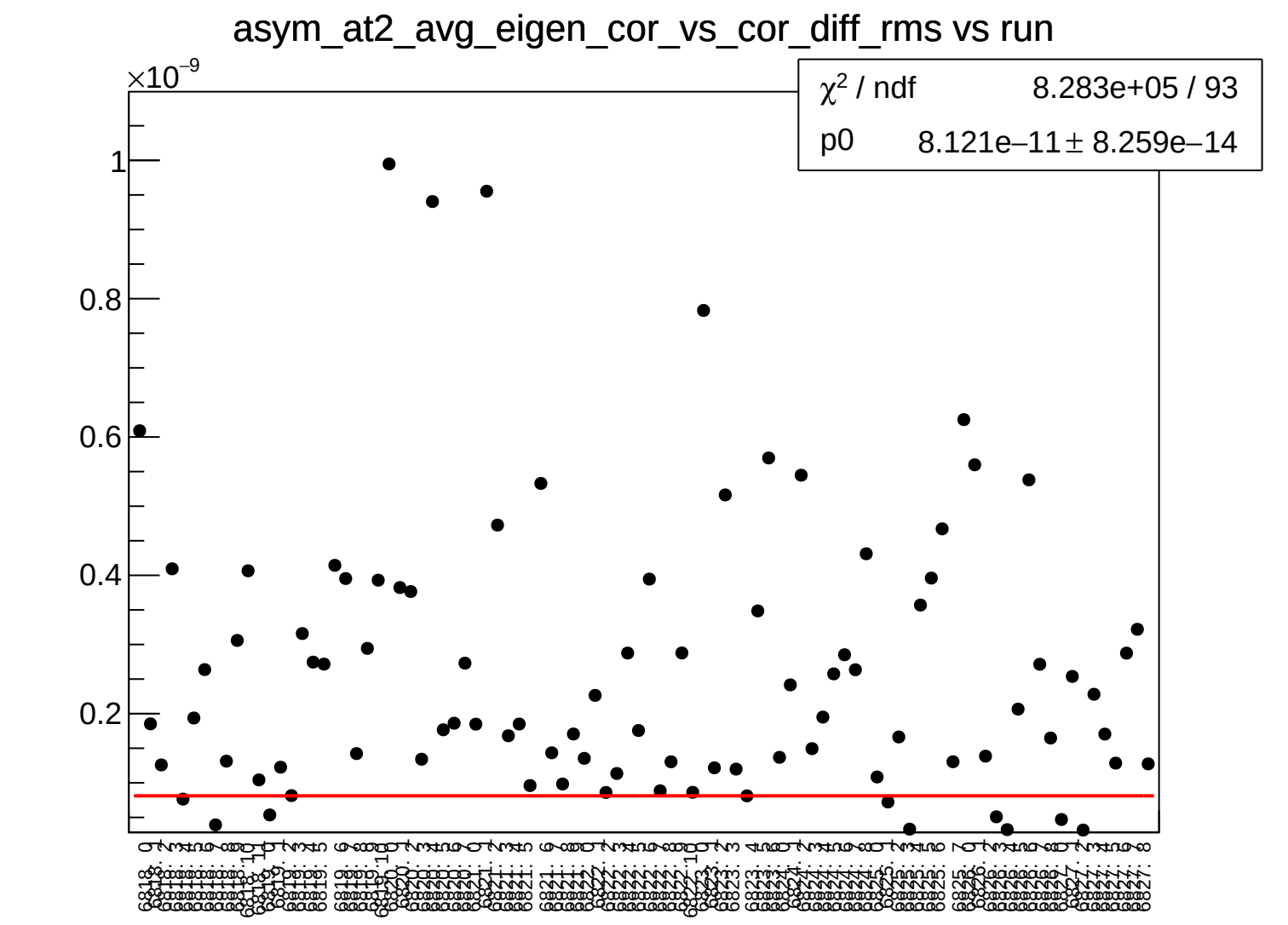

pull1D
Entries 94
Mean 0.002013
Std Dev 0.9634

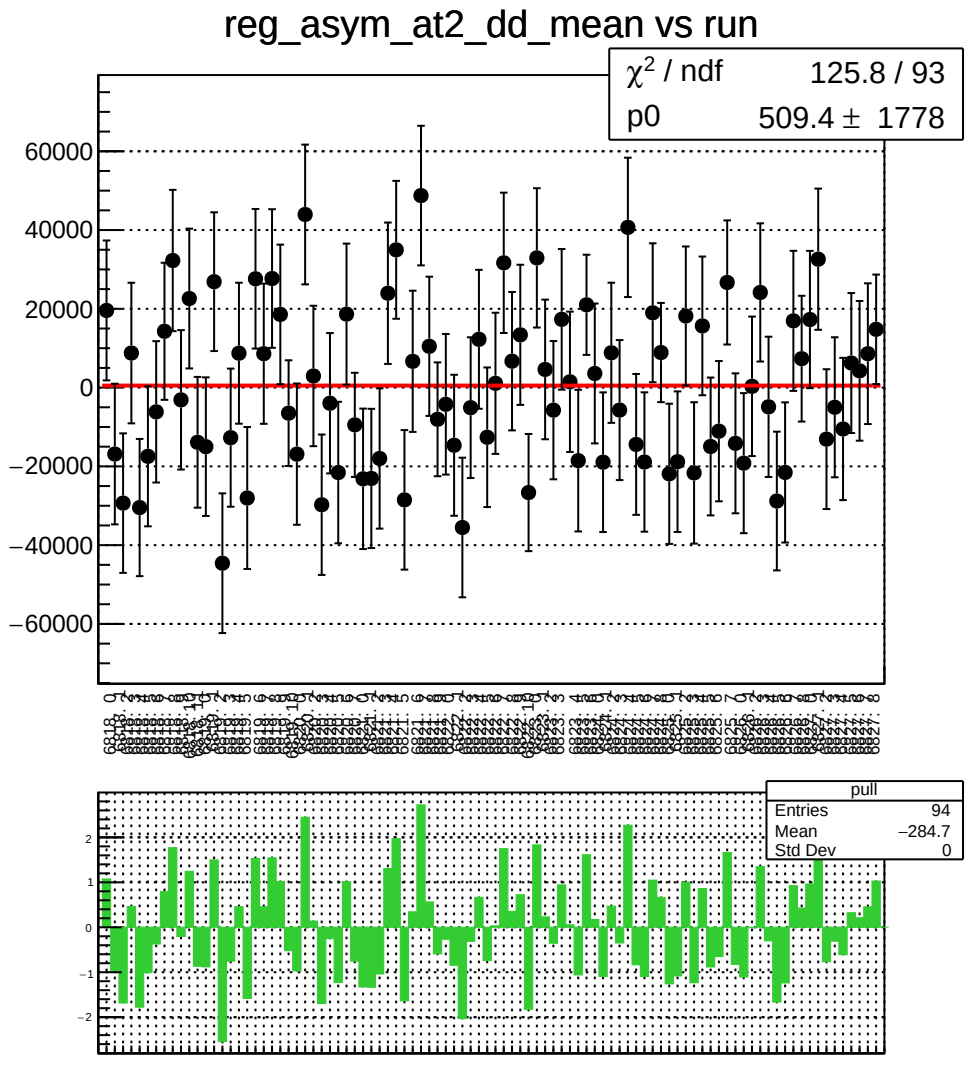

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4935 / 93
p0 559.4 ± 0.4181
700
650
600
550
500

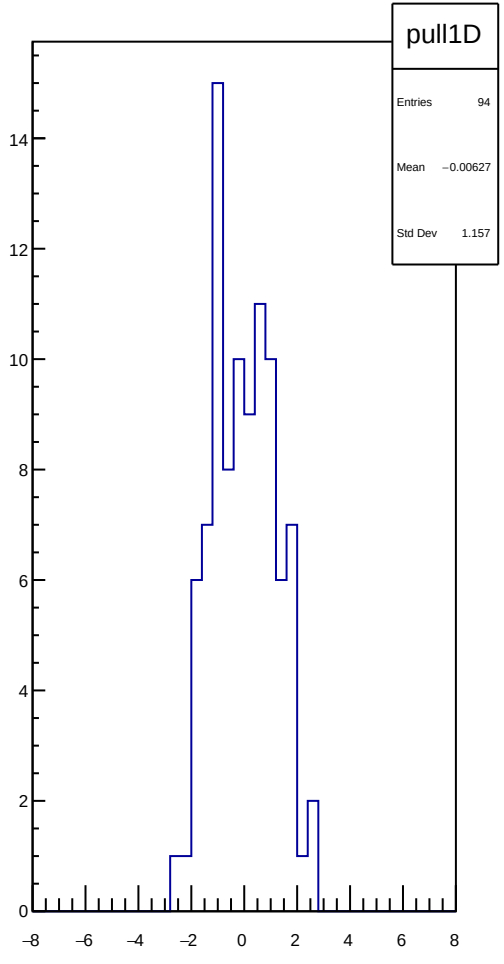

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.25 / 93
p0 0.386 ± 0.5913
pull
Entries 94
Mean 513.7
Std Dev 0
pull1D
Entries 94
Mean 0.002013
Std Dev 0.9634

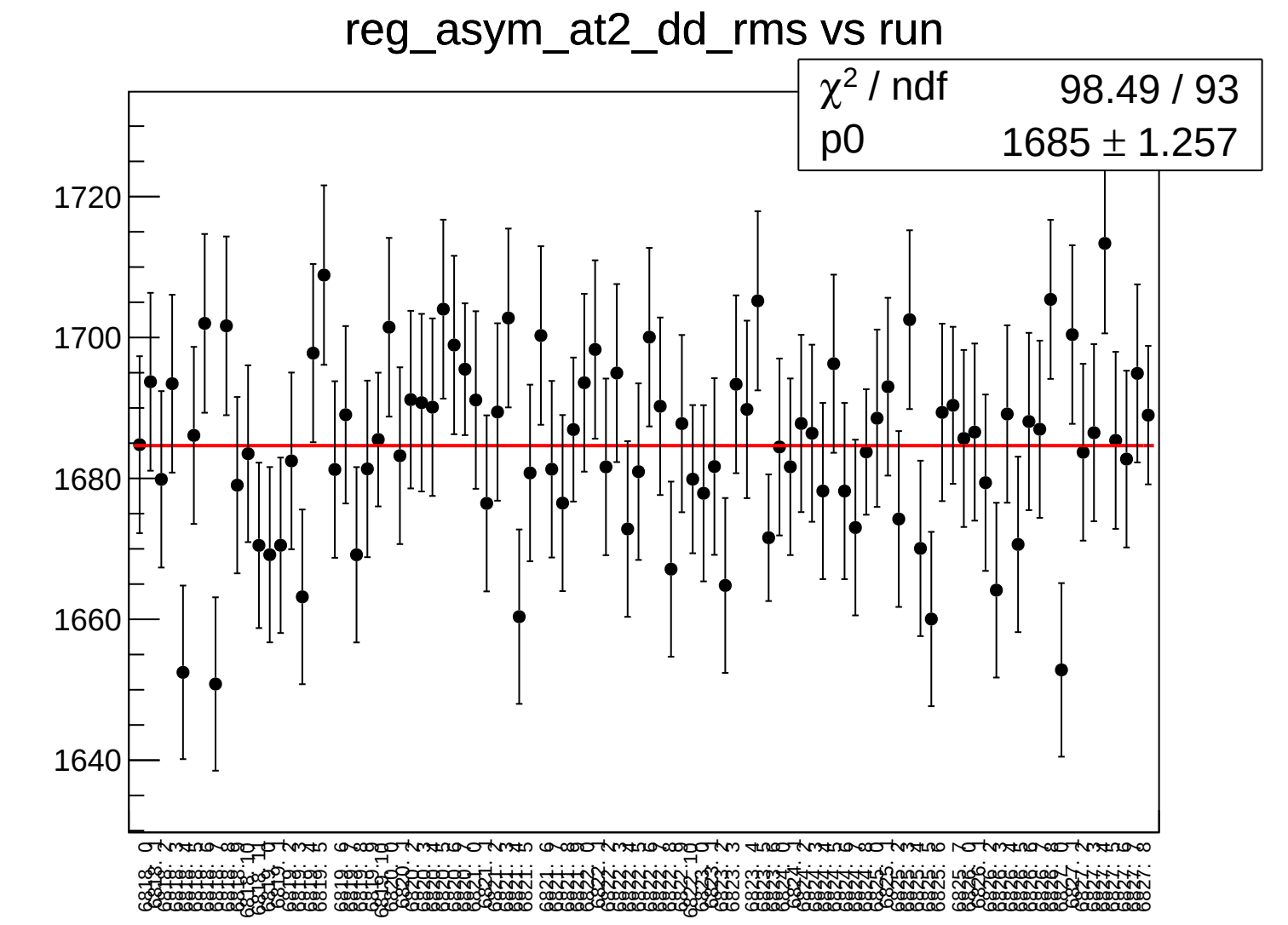

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4935 / 93
p0 559.4 ± 0.4181
700
650
600
550
500

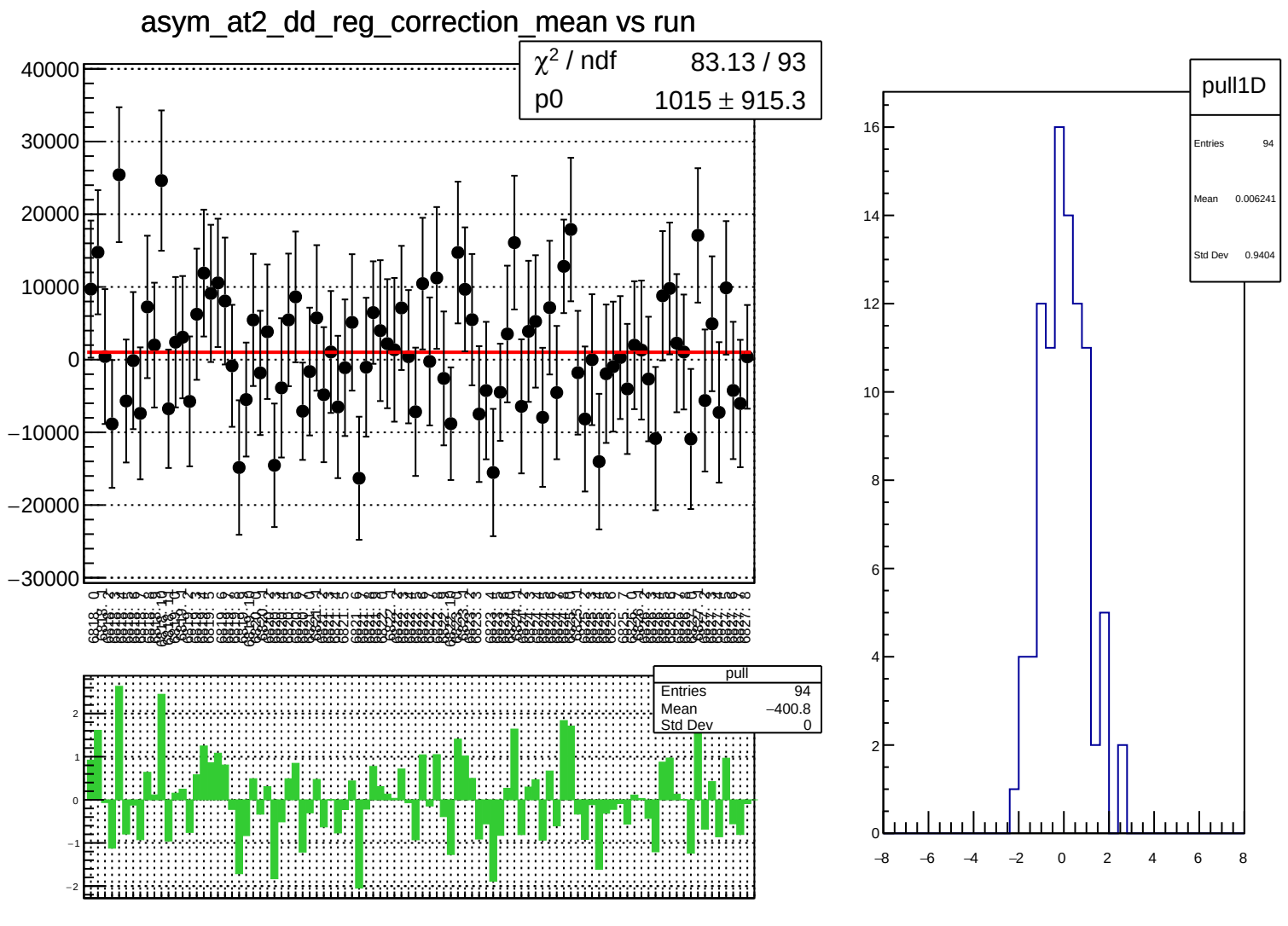

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.44 / 93
p0 1.697e−13 ± 1.168e−13
20
10
0
−10
−20
pull
Entries 94
Mean 30.21
Std Dev 35.42
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1518
Std Dev 0.9635
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

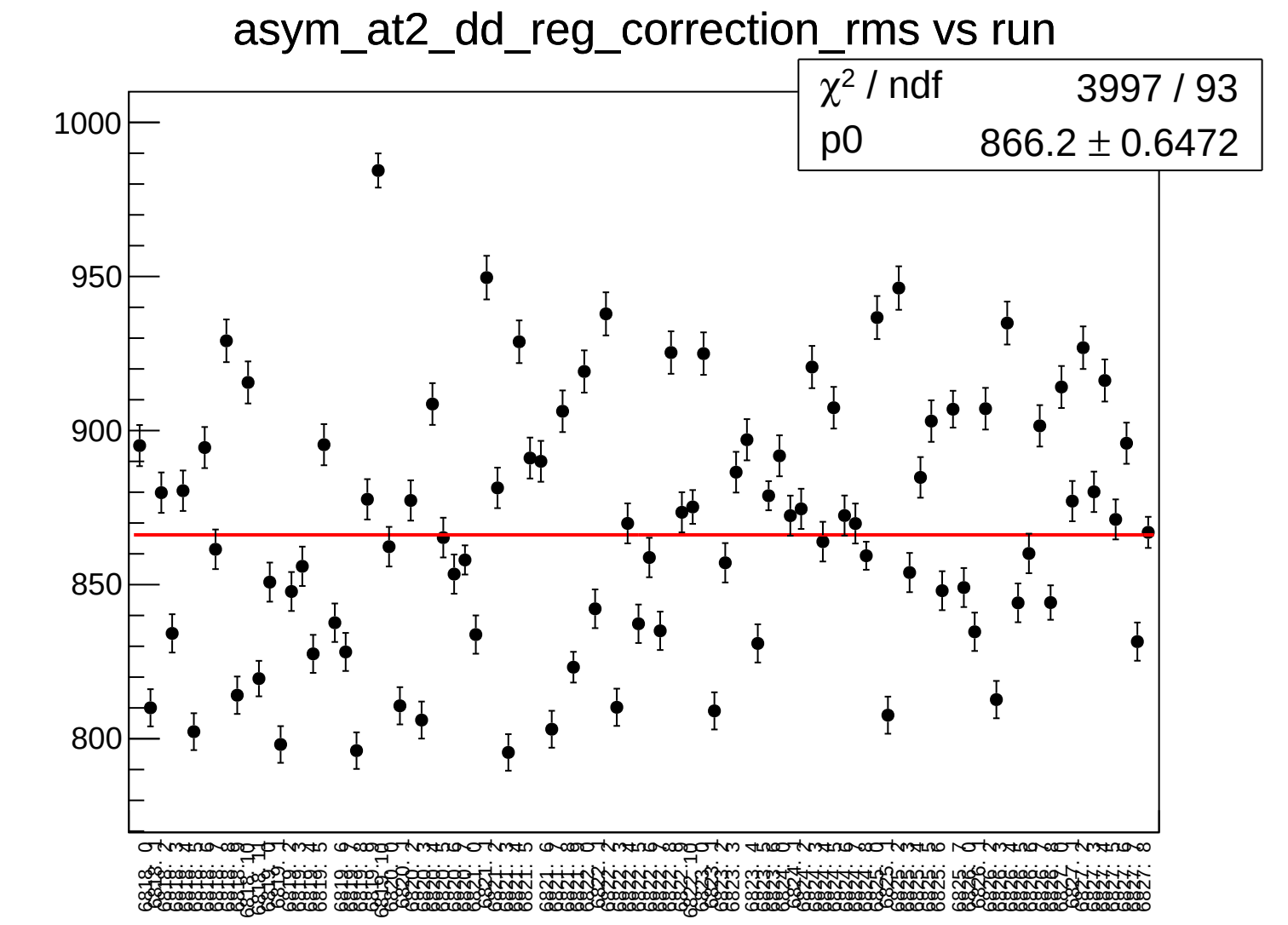

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.283e+05 / 93
p0 8.121e−11 ± 8.259e−14
1
0.8
0.6
0.4
0.2

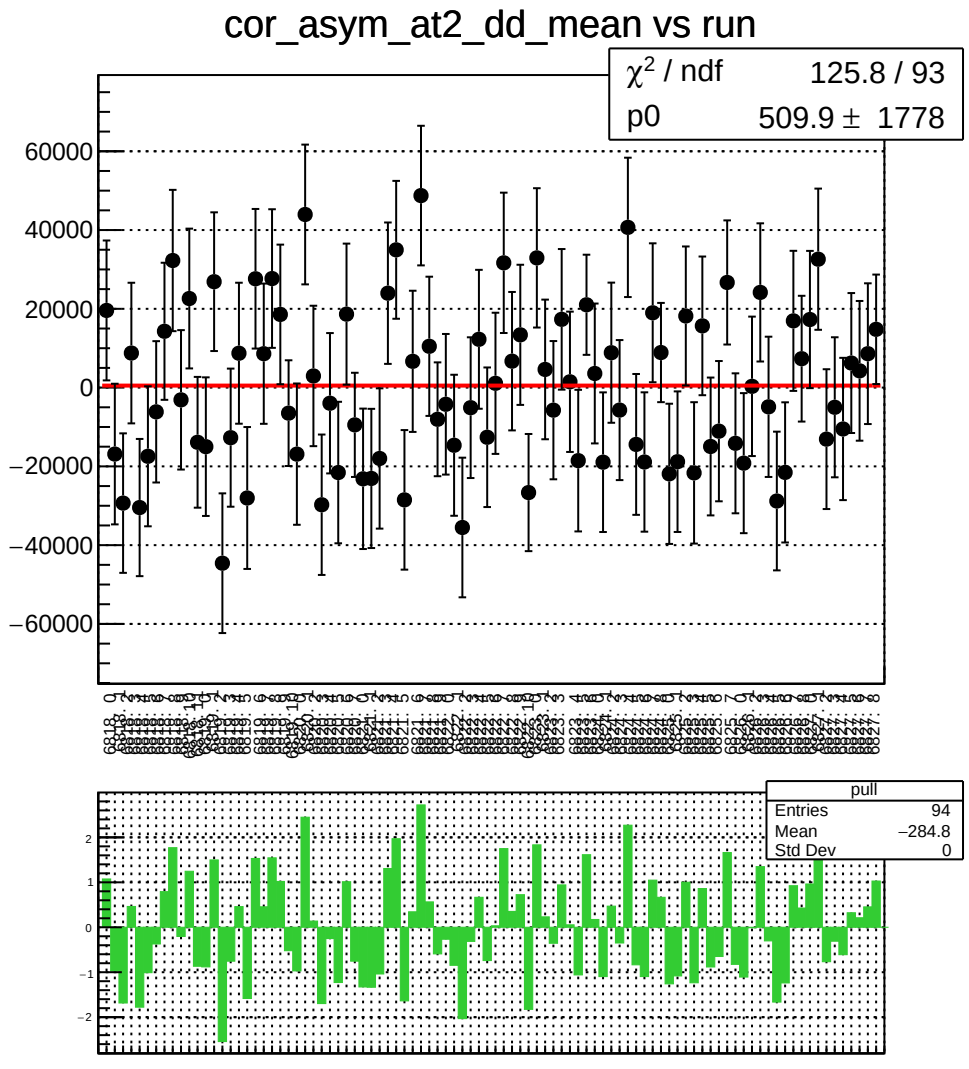

reg_asym_at2_dd_mean vs run
χ^2 / ndf 125.8 / 93
p0 509.4 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −284.7
Std Dev 0
2
1
0
−1
−2

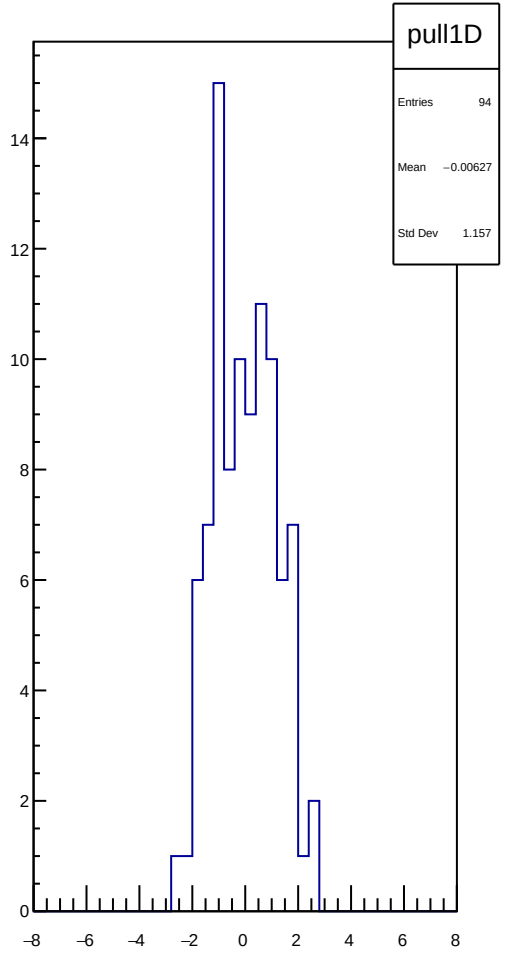

pull1D
Entries 94
Mean −0.00627
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

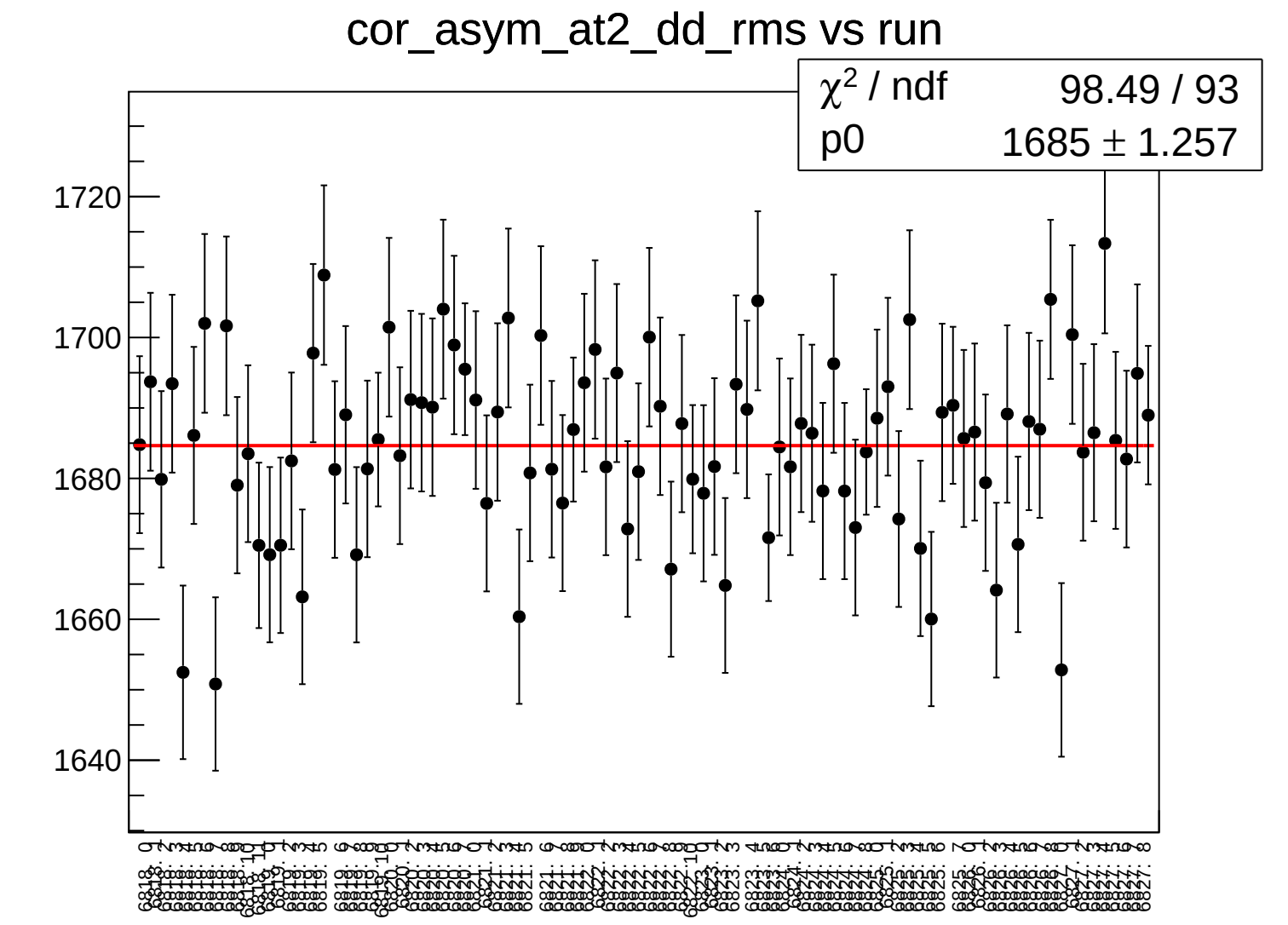

reg_asym_at2_dd_rms vs run
χ^2 / ndf 98.49 / 93
p0 1685 ± 1.257
1720
1700
1680
1660
1640

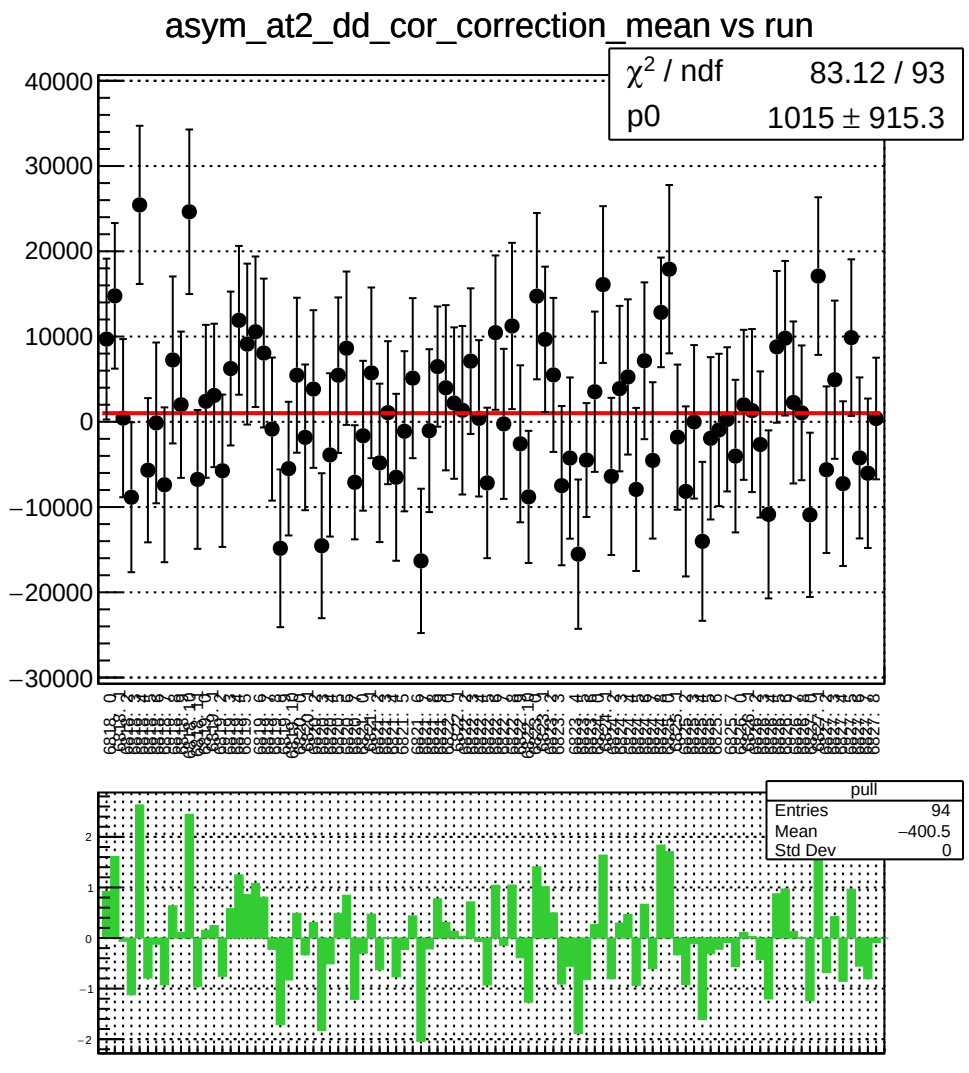

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 83.13 / 93
p0 1015 ± 915.3
pull
Entries 94
Mean −400.8
Std Dev 0
pull1D
Entries 94
Mean 0.006241
Std Dev 0.9404

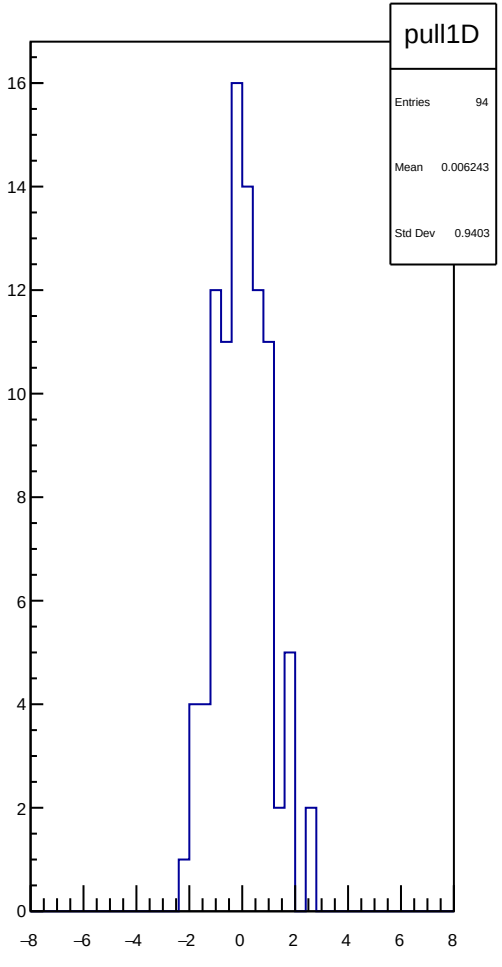

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3997 / 93
p0 866.2 ± 0.6472
1000
950
900
850
800

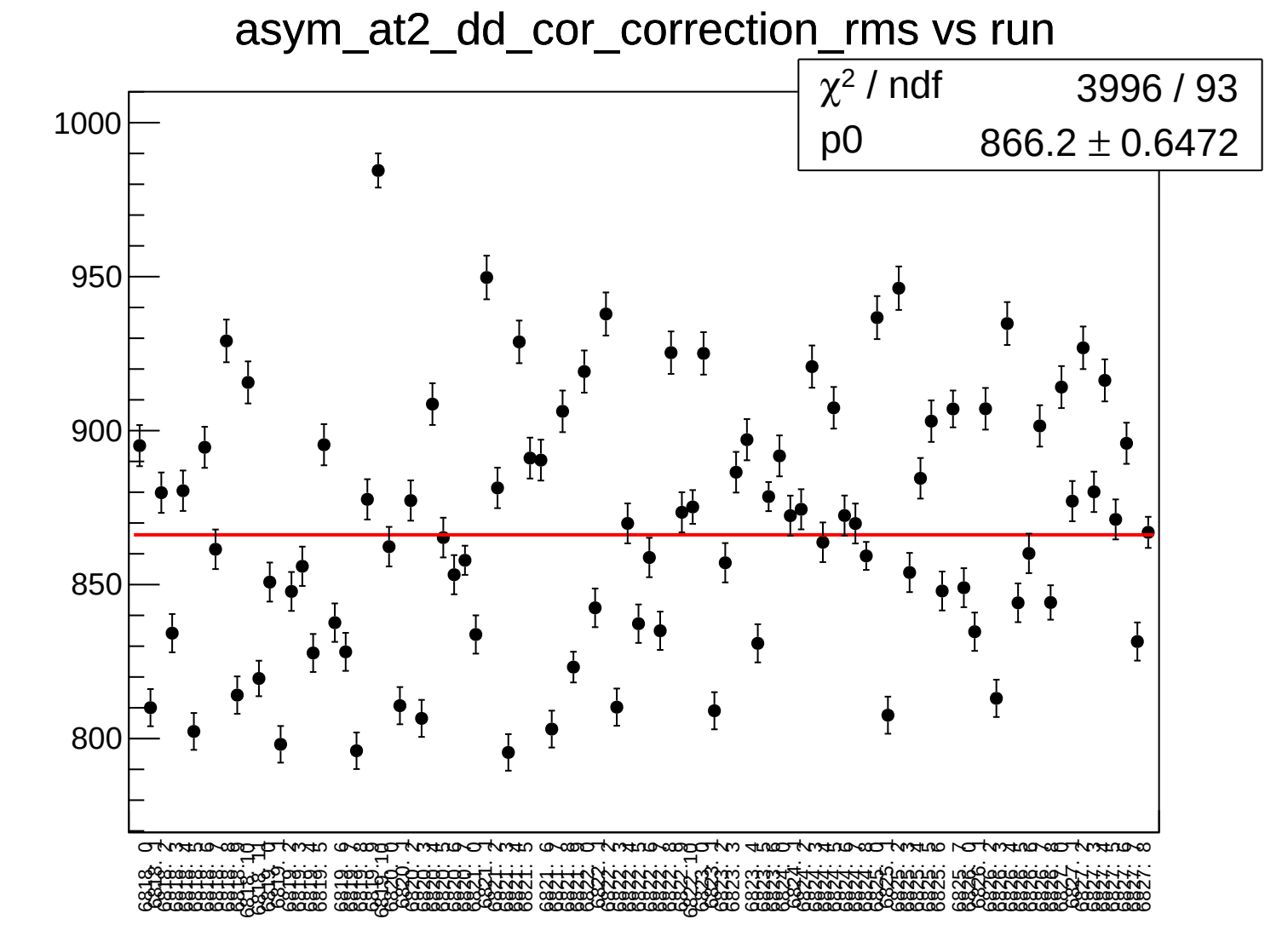

cor_asym_at2_dd_mean vs run
χ² / ndf 125.8 / 93
p0 509.9 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −284.8
Std Dev 0
2
1
0
−1
−2

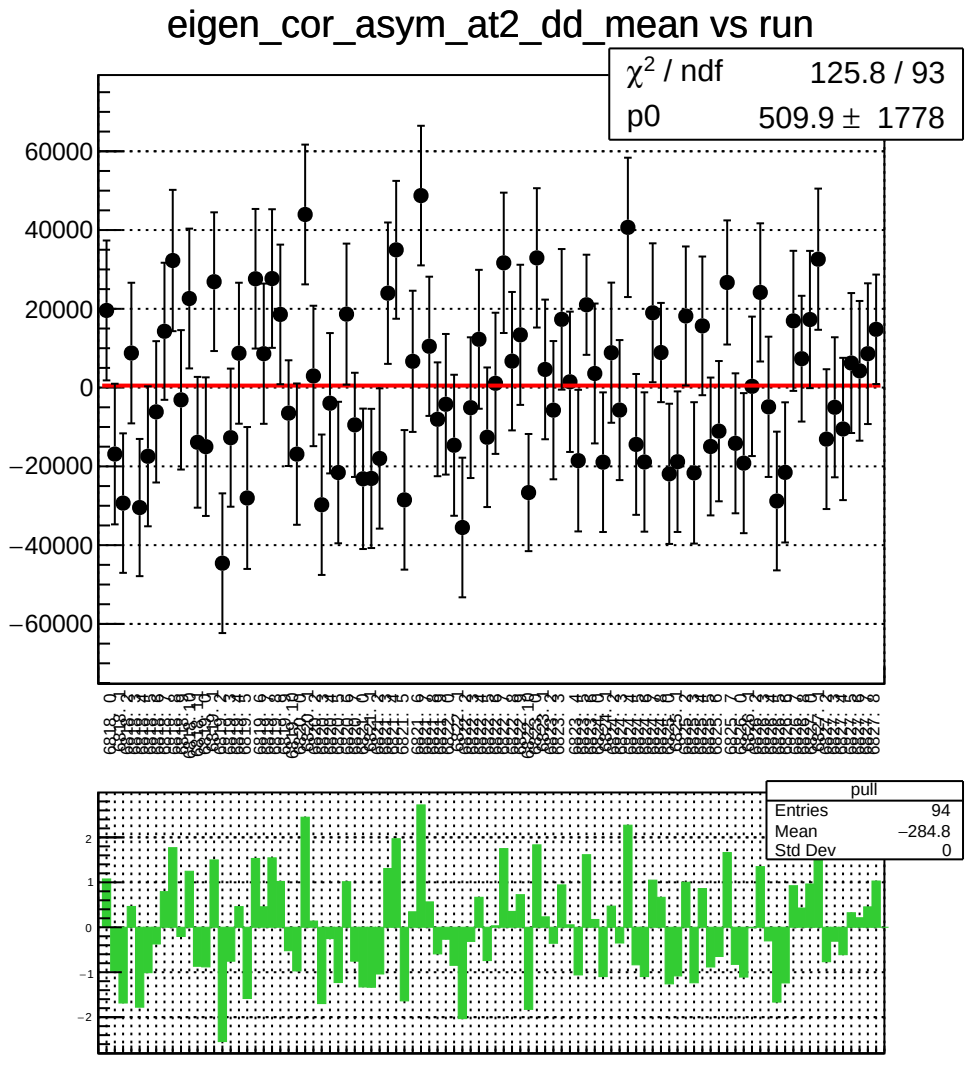

pull1D
Entries 94
Mean −0.00627
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

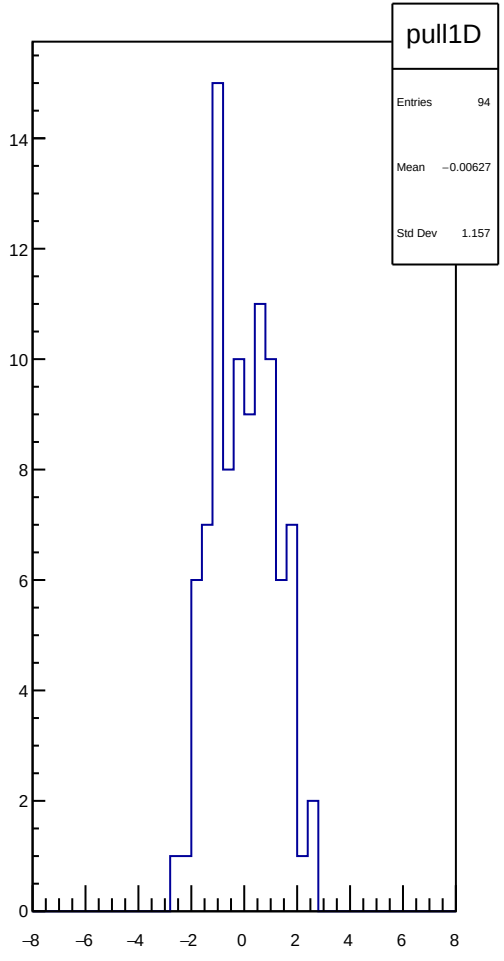

cor_asym_at2_dd_rms vs run
χ^2 / ndf 98.49 / 93
p0 1685 ± 1.257
1720
1700
1680
1660
1640

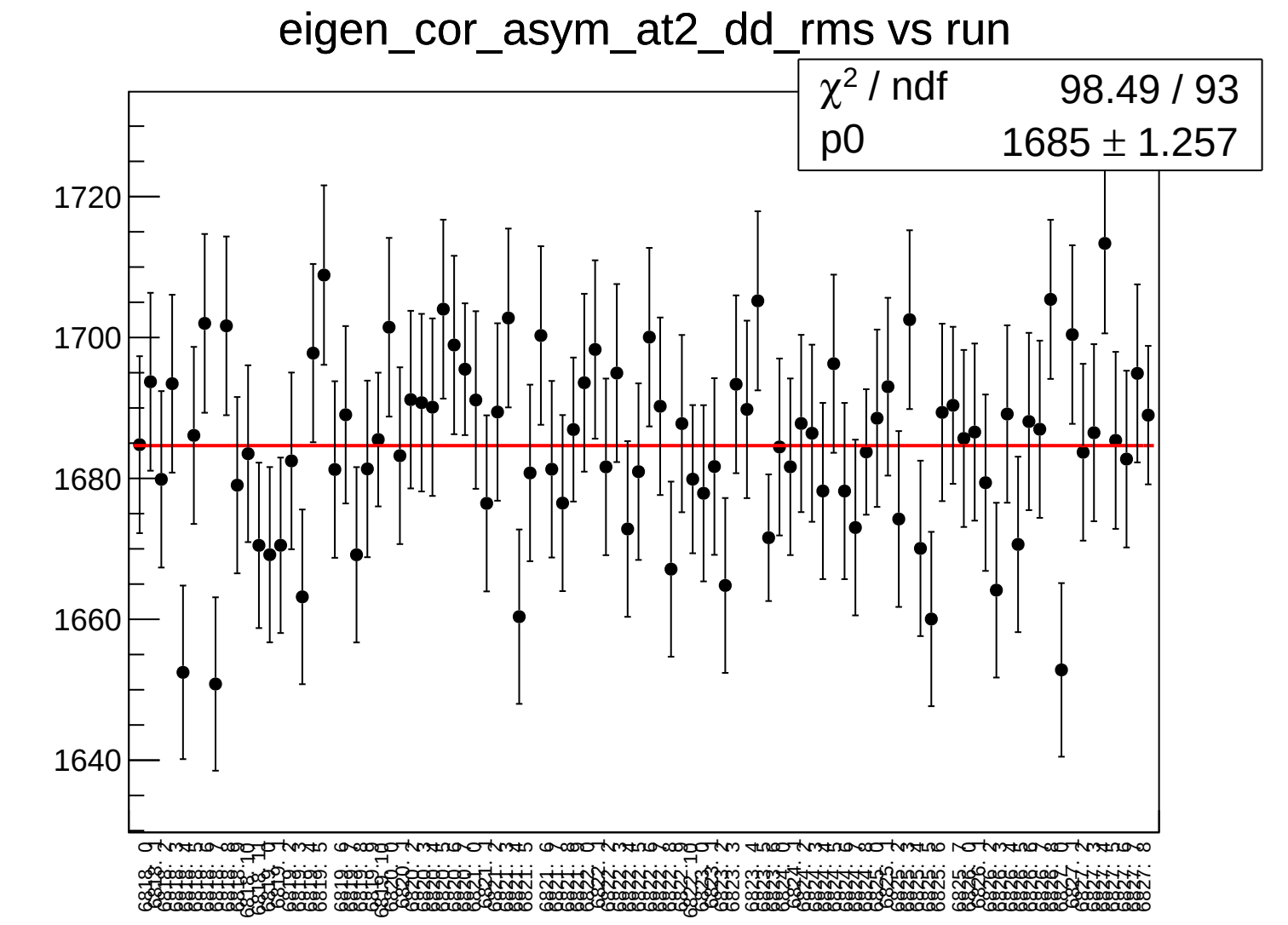

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 83.12 / 93
p0 1015 ± 915.3
pull
Entries 94
Mean −400.5
Std Dev 0

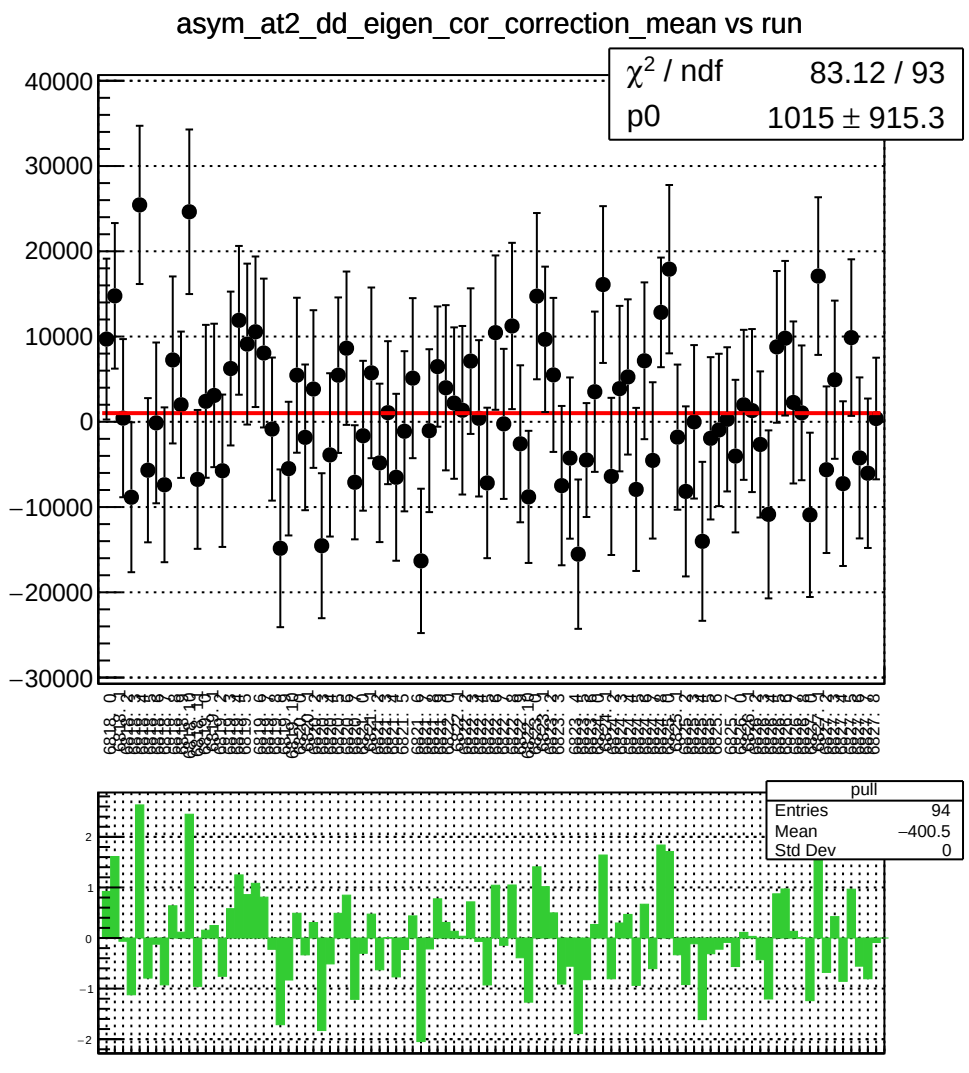

pull1D
Entries 94
Mean 0.006243
Std Dev 0.9403

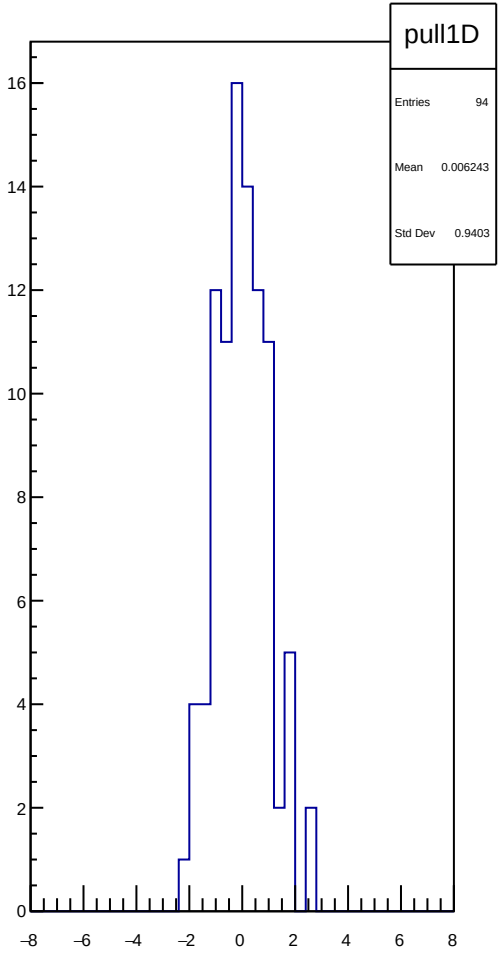

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3996 / 93
p0 866.2 ± 0.6472
1000
950
900
850
800

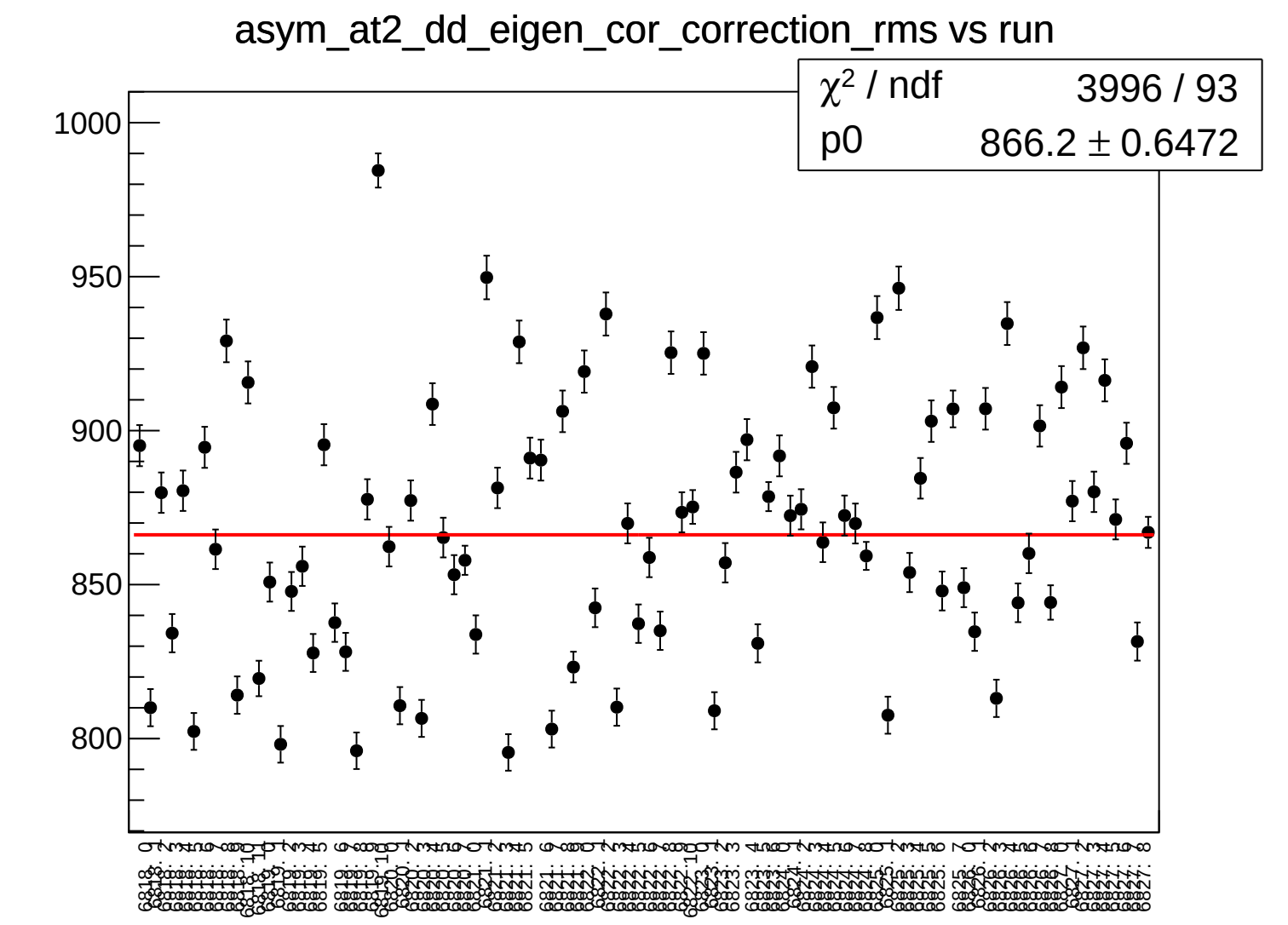

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 125.8 / 93
p0 509.9 ± 1778
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −284.8
Std Dev 0
2
1
0
−1
−2

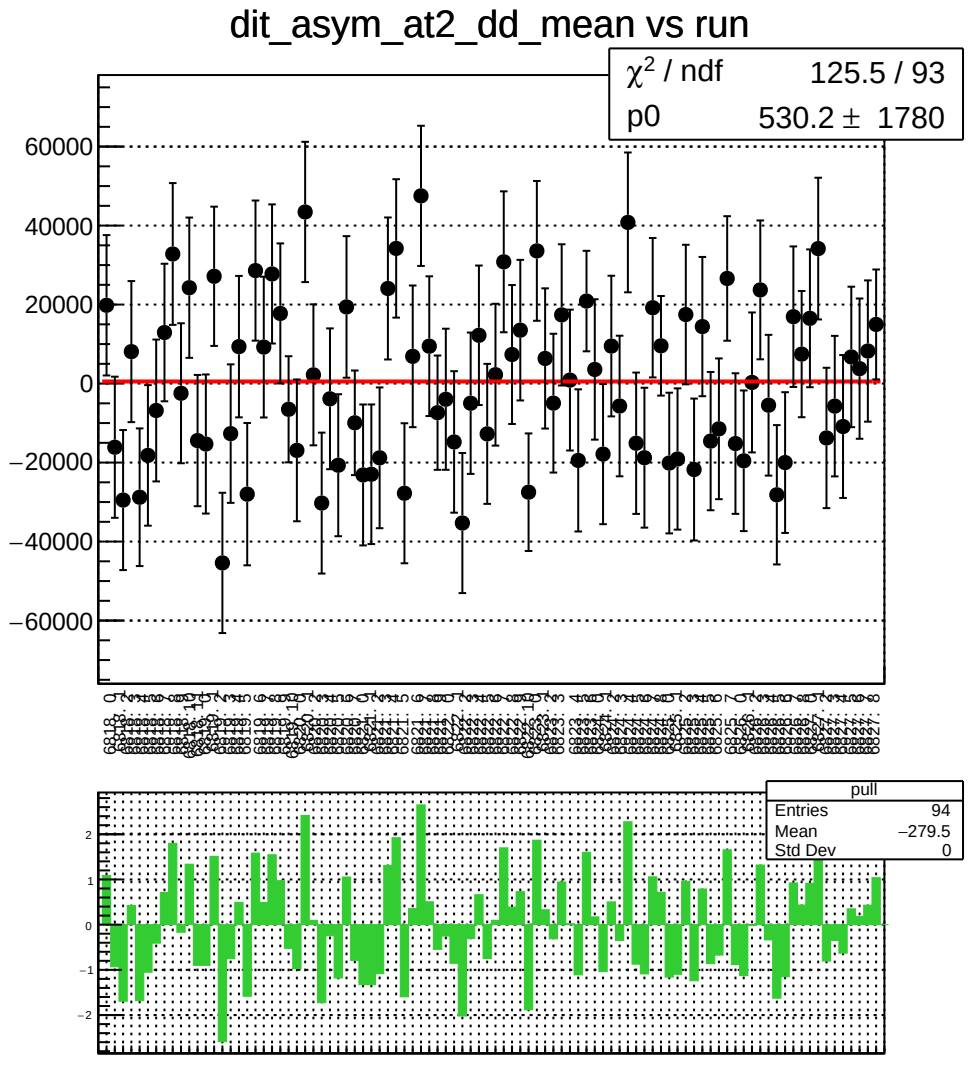

pull1D
Entries 94
Mean −0.00627
Std Dev 1.157
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

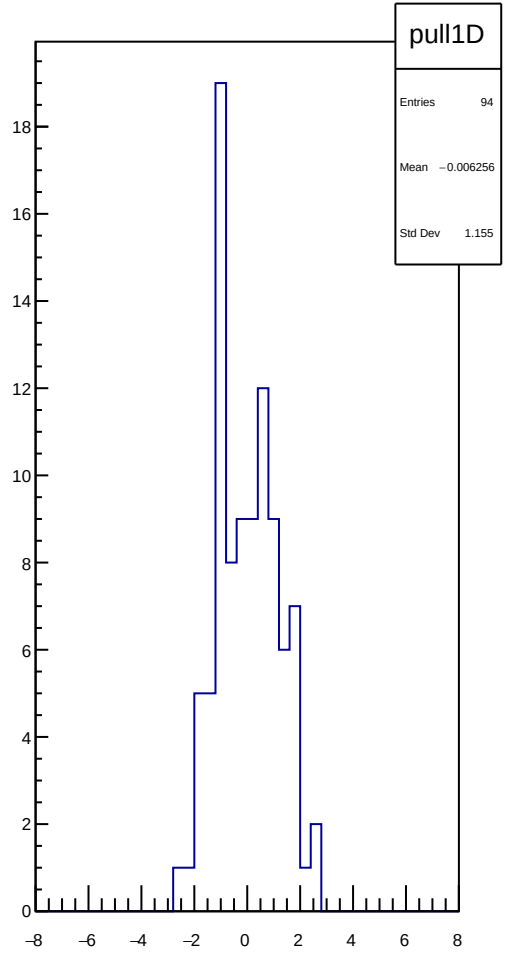

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 98.49 / 93
p0 1685 ± 1.257
1720
1700
1680
1660
1640

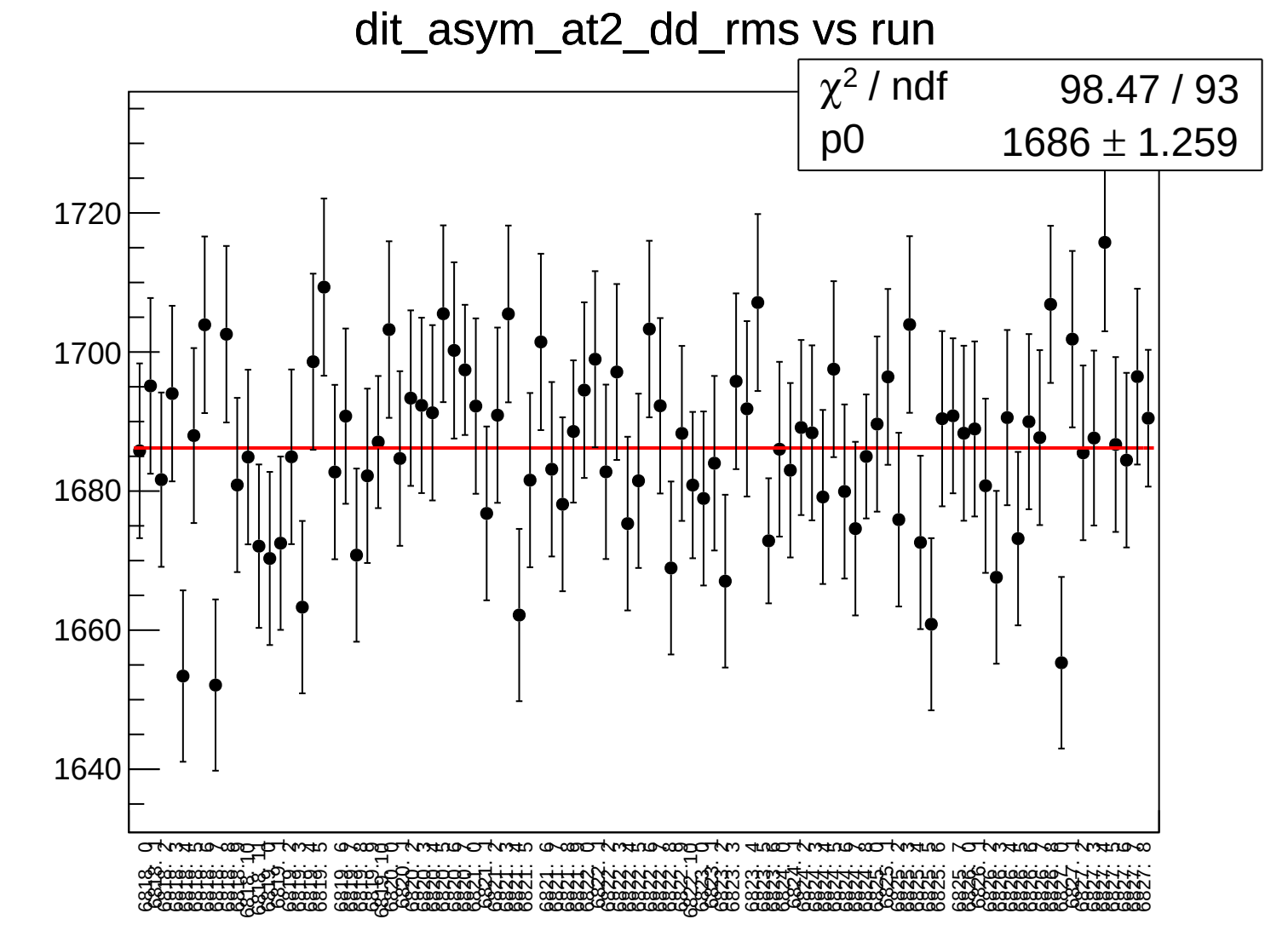

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.12 / 93
p0 1015 ± 915.3
pull
Entries 94
Mean −400.5
Std Dev 0

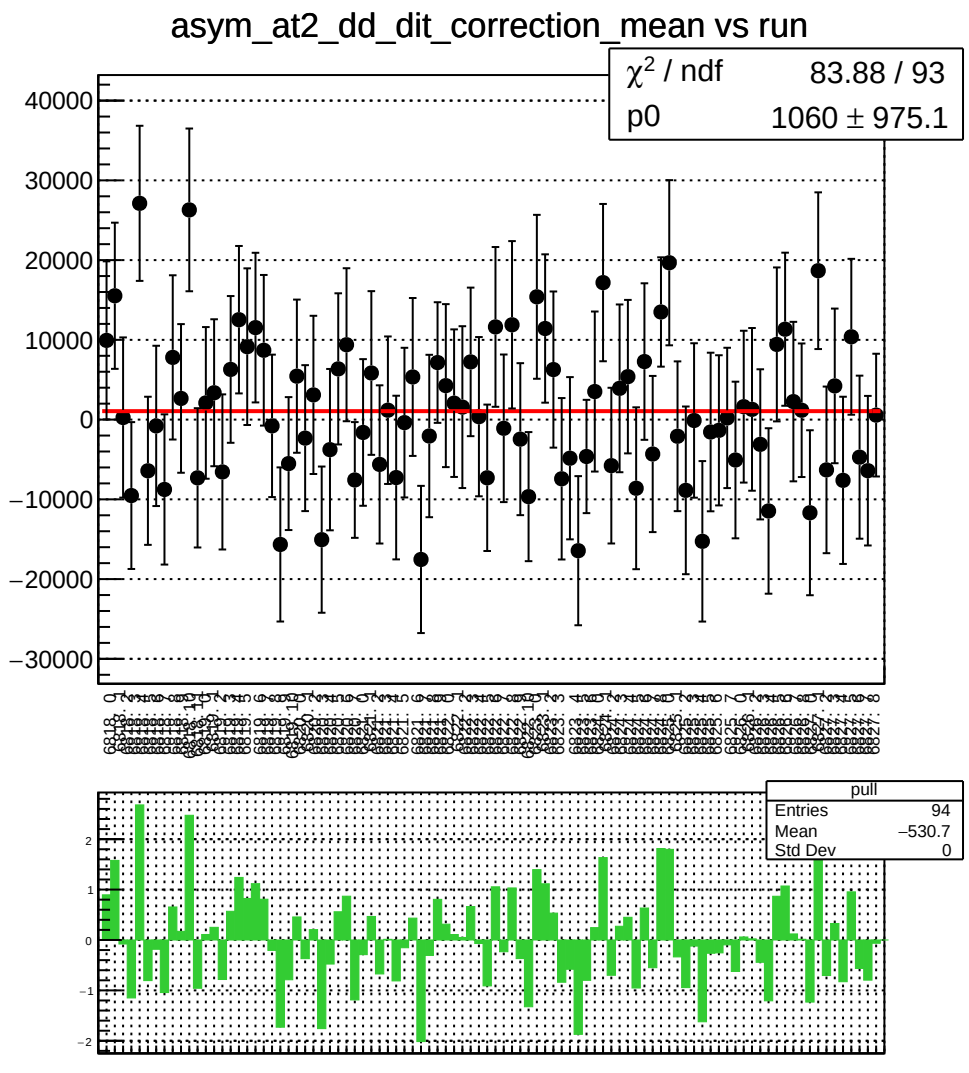

pull1D
Entries 94
Mean 0.006243
Std Dev 0.9403

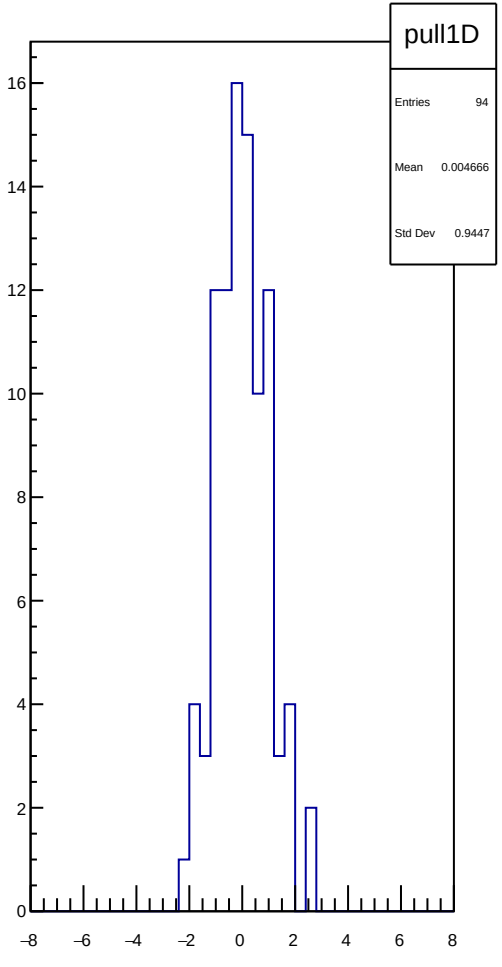

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3996 / 93
p0 866.2 ± 0.6472
1000
950
900
850
800

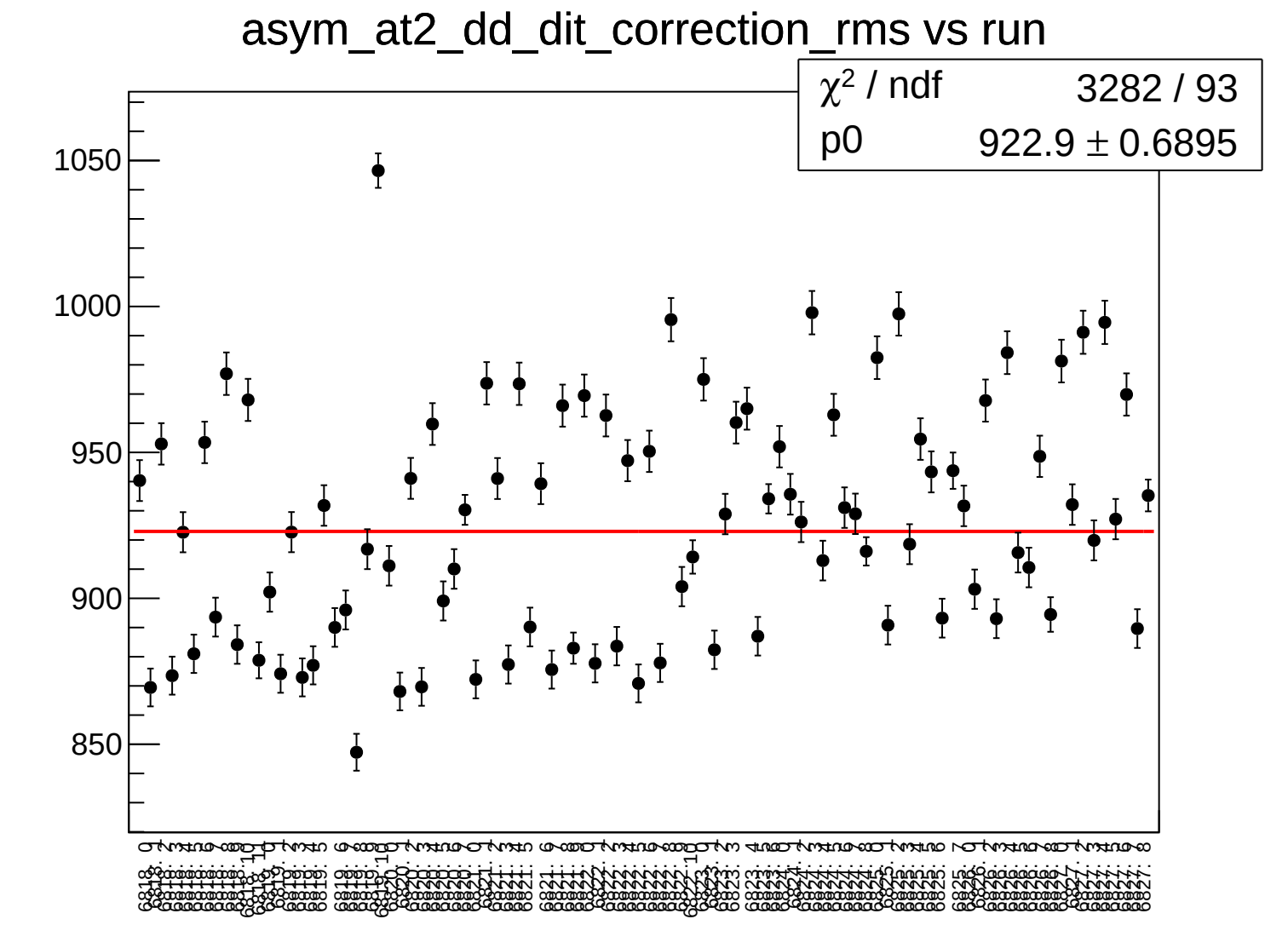

dit_asym_at2_dd_mean vs run
χ² / ndf 125.5 / 93
p0 530.2 ± 1780
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −279.5
Std Dev 0
2
1
0
−1
−2

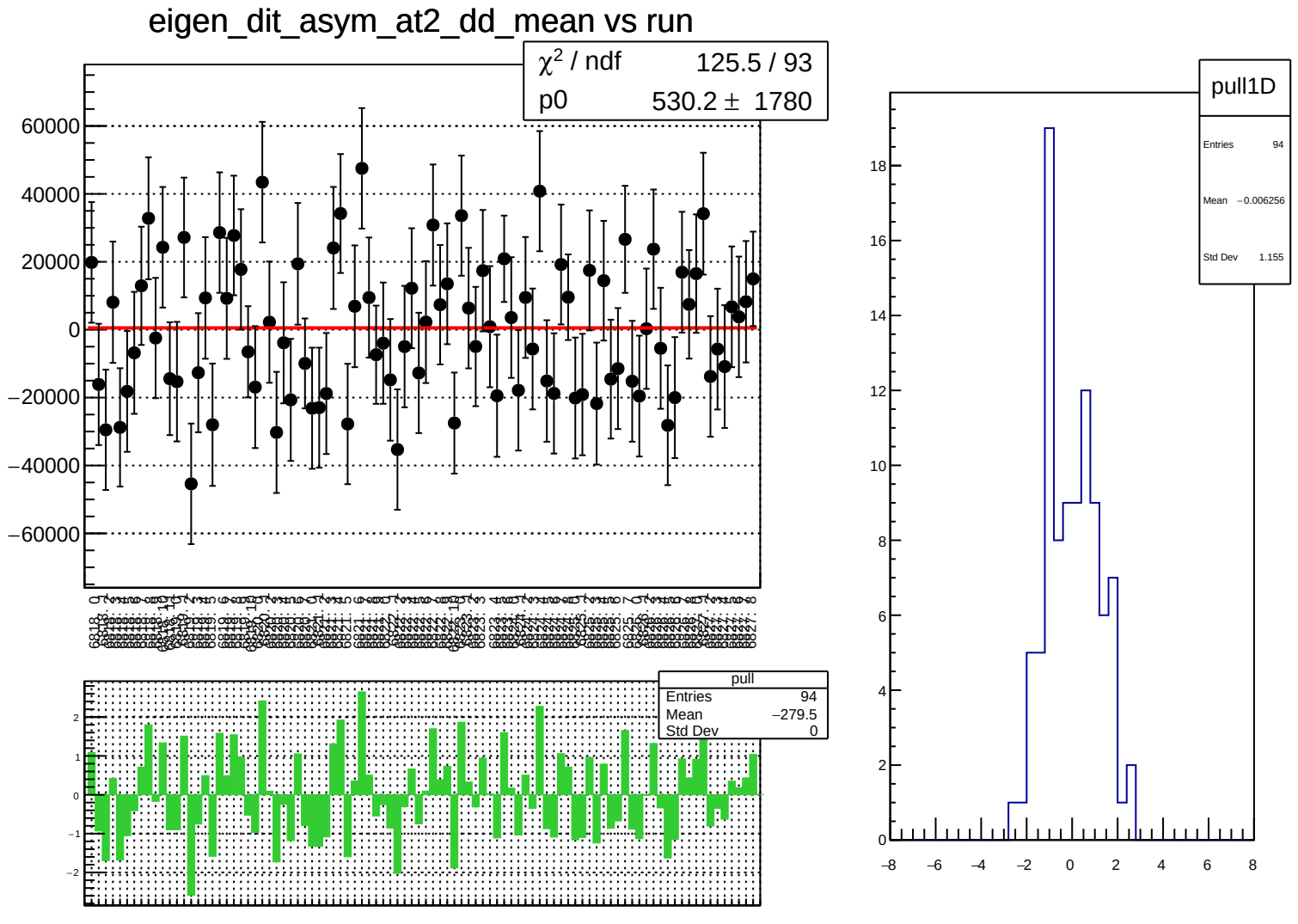

pull1D
Entries 94
Mean −0.006256
Std Dev 1.155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

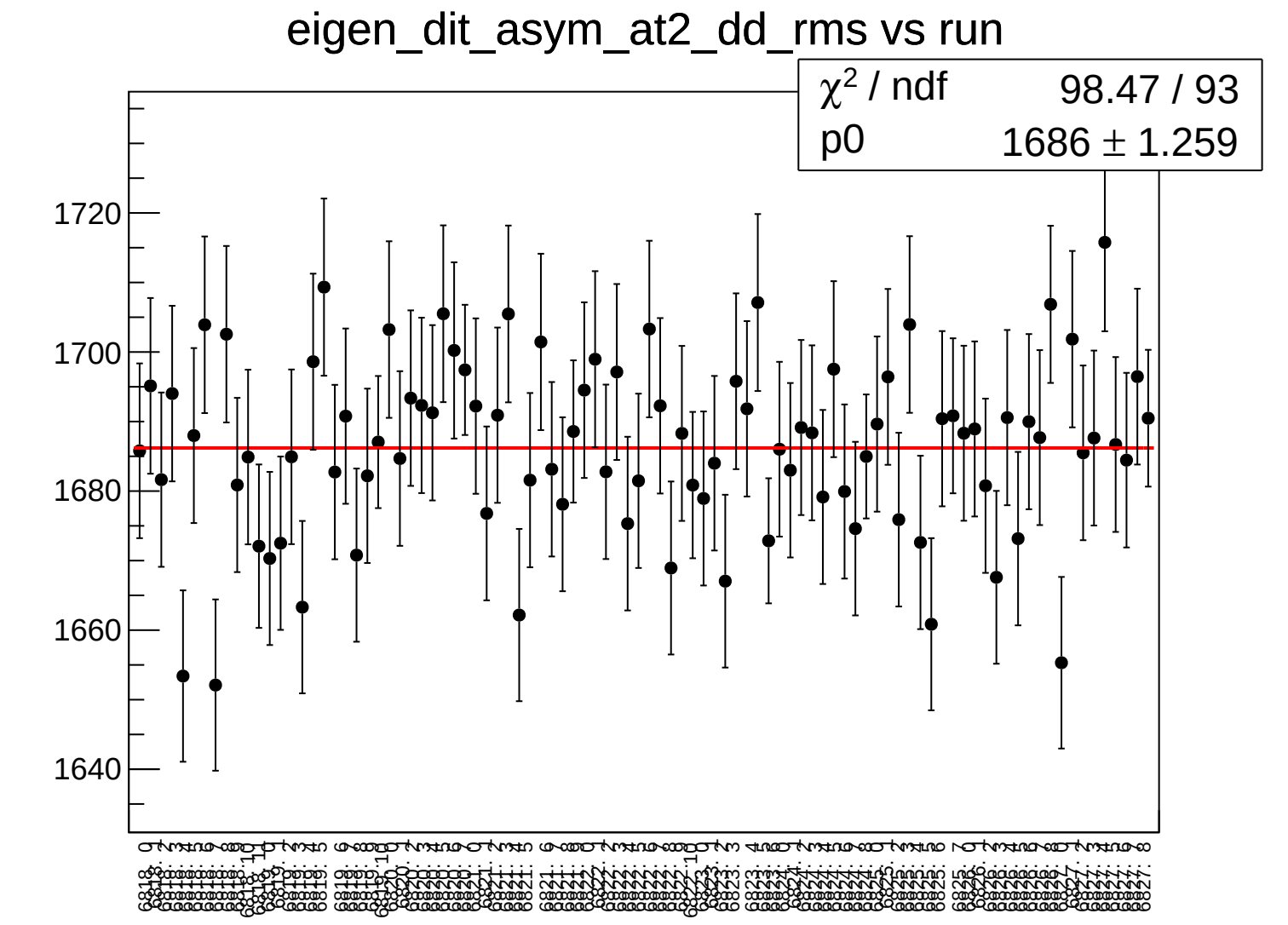

dit_asym_at2_dd_rms vs run
χ² / ndf 98.47 / 93
p0 1686 ± 1.259
1720
1700
1680
1660
1640

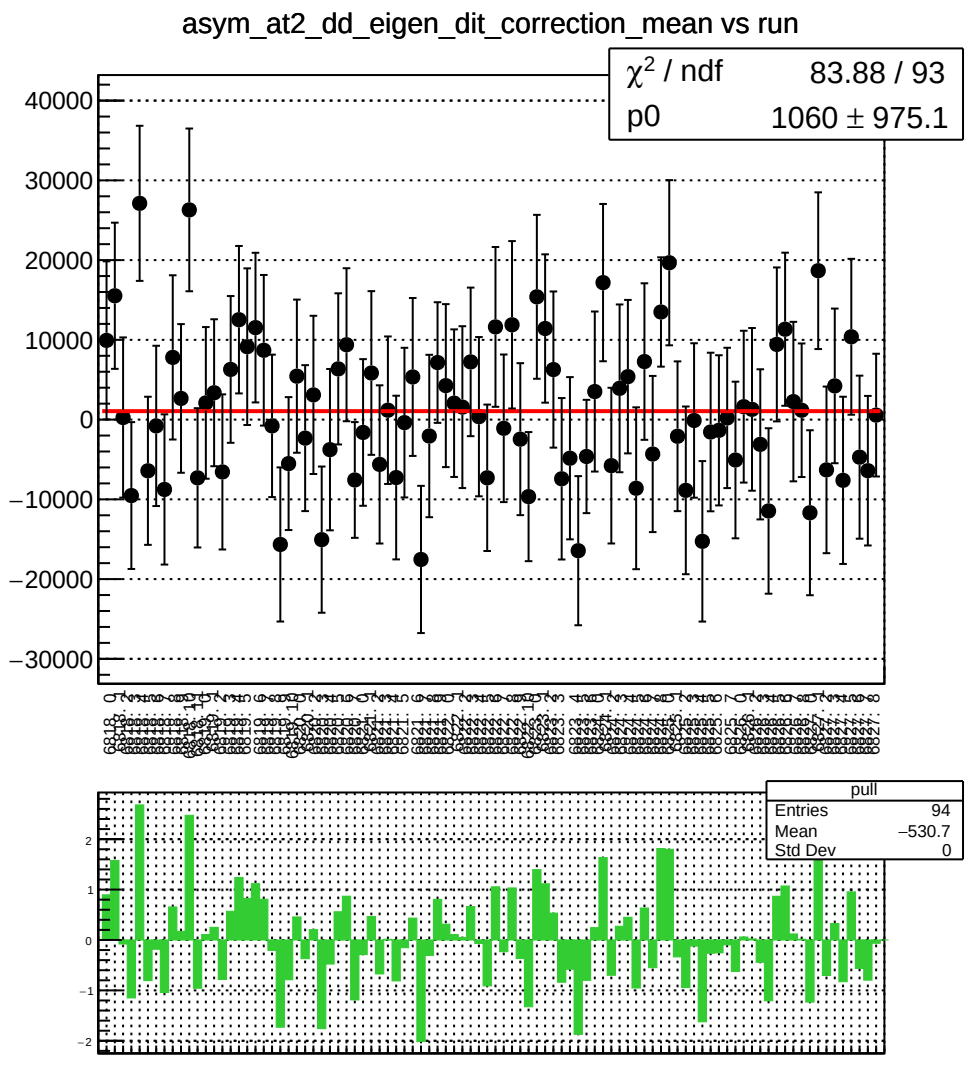

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 83.88 / 93
p0 1060 ± 975.1
pull
Entries 94
Mean −530.7
Std Dev 0

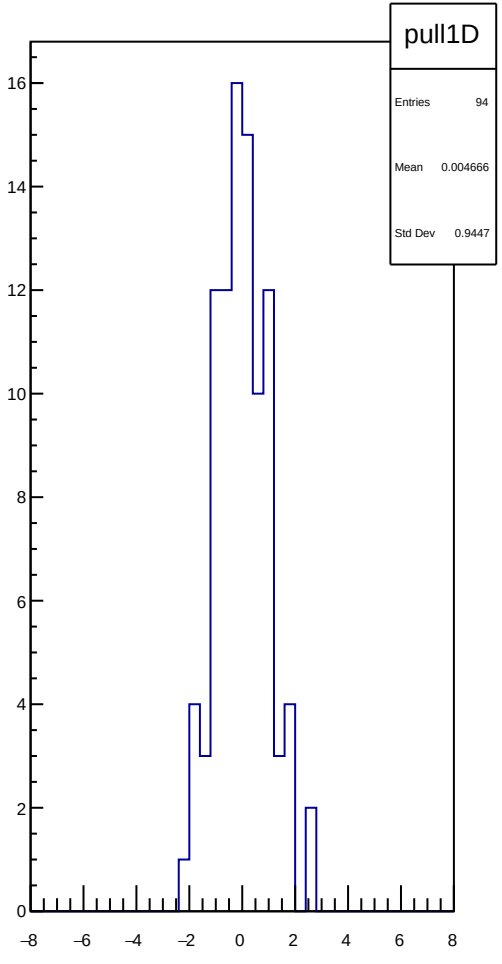

pull1D
Entries 94
Mean 0.004666
Std Dev 0.9447

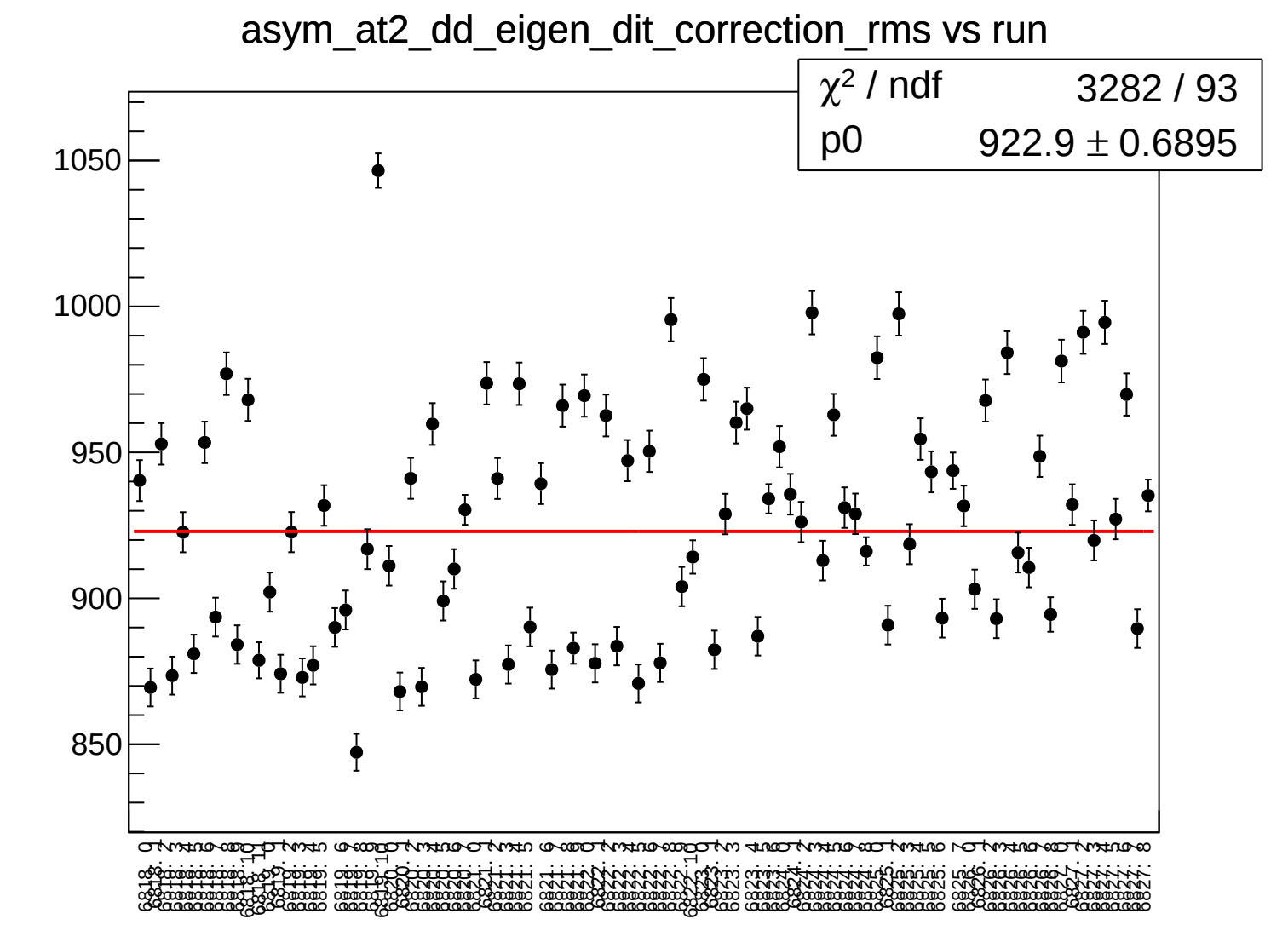

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 3282 / 93
p0 922.9 ± 0.6895
1050
1000
950
900
850

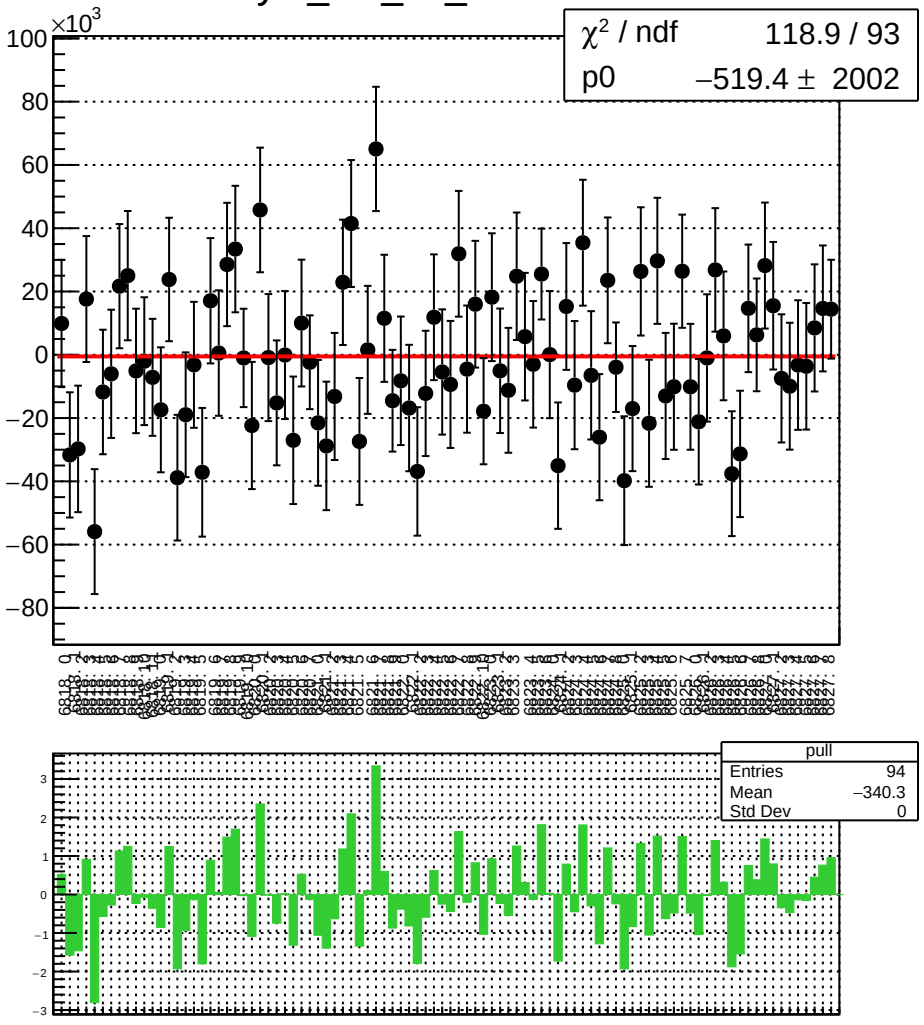

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 125.5 / 93
p0 530.2 ± 1780
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −279.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.006256
Std Dev 1.155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

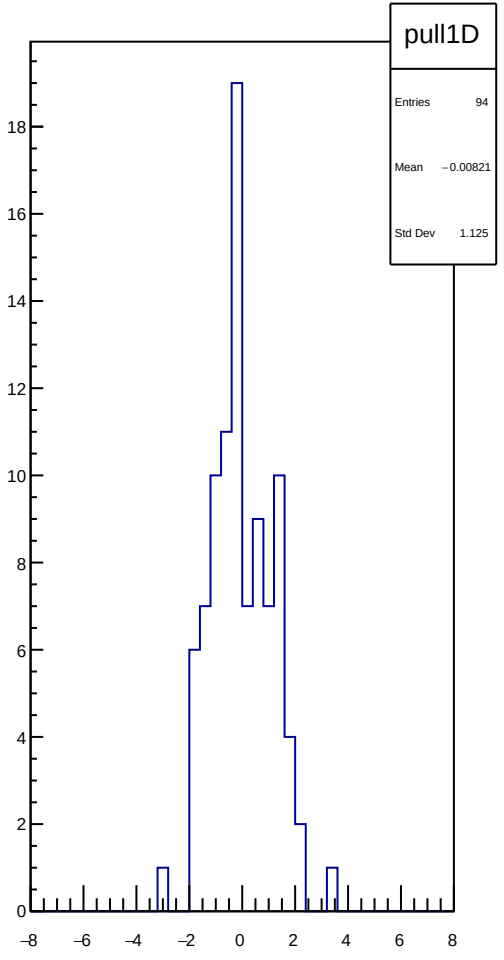

eigen_dit_asym_at2_dd_rms vs run
χ^2 / ndf 98.47 / 93
p0 1686 ± 1.259
1720
1700
1680
1660
1640

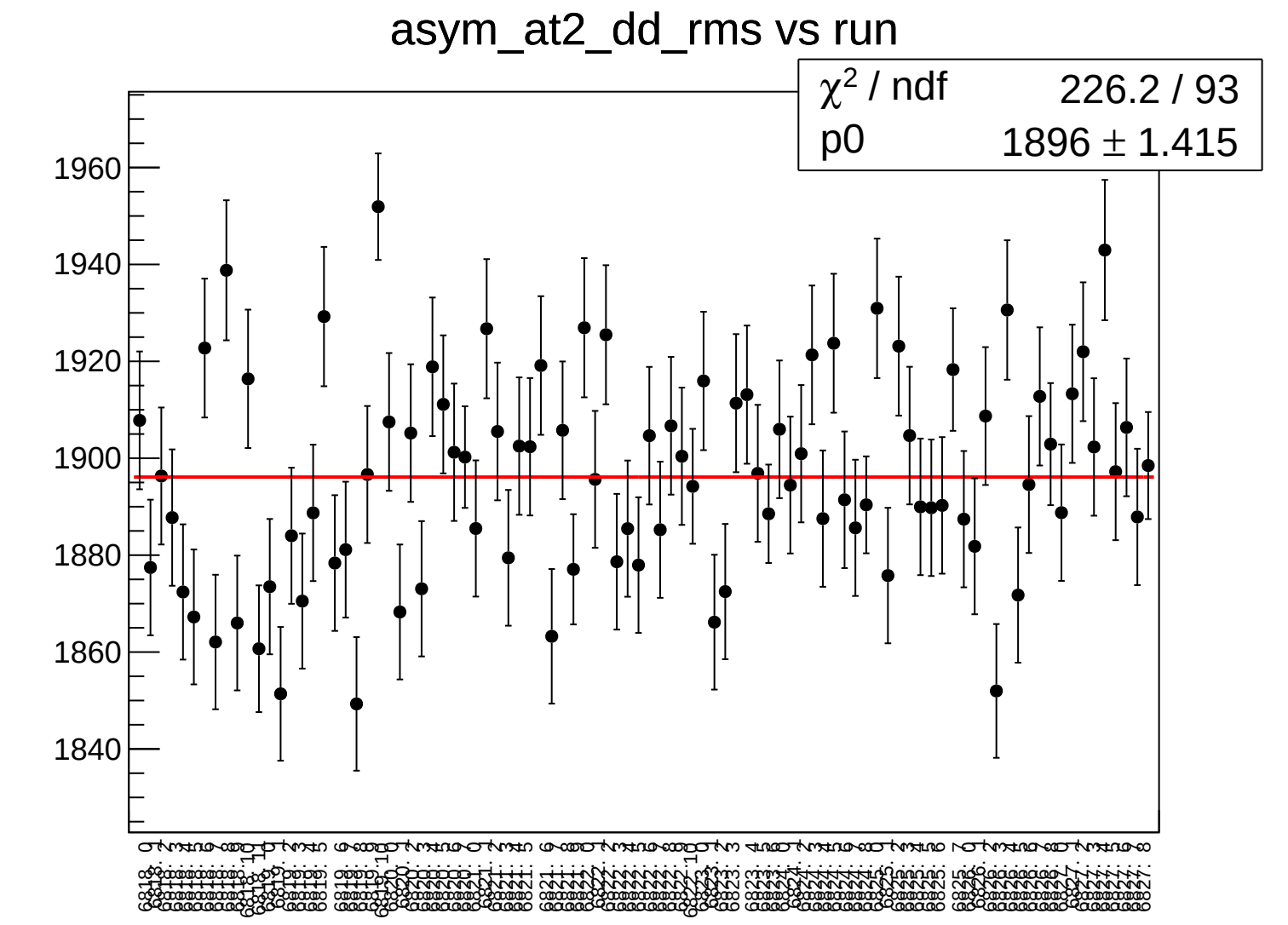

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.88 / 93
p0 1060 ± 975.1
pull
Entries 94
Mean −530.7
Std Dev 0

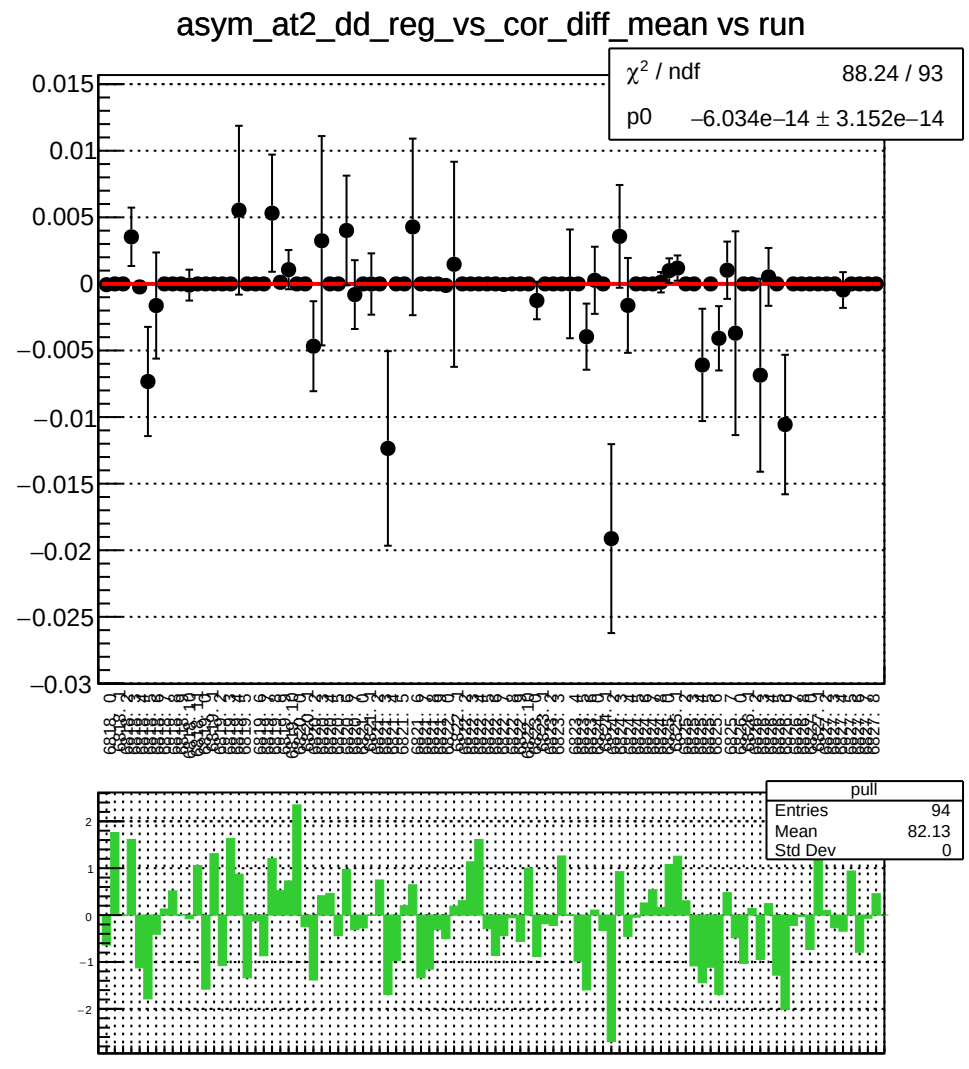

pull1D
Entries 94
Mean 0.004666
Std Dev 0.9447

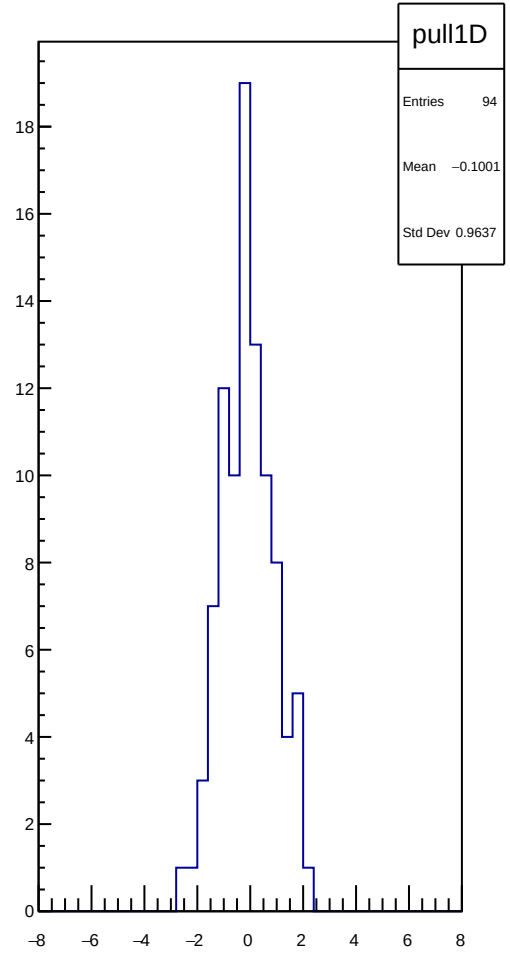

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3282 / 93
p0 922.9 ± 0.6895
1050
1000
950
900
850

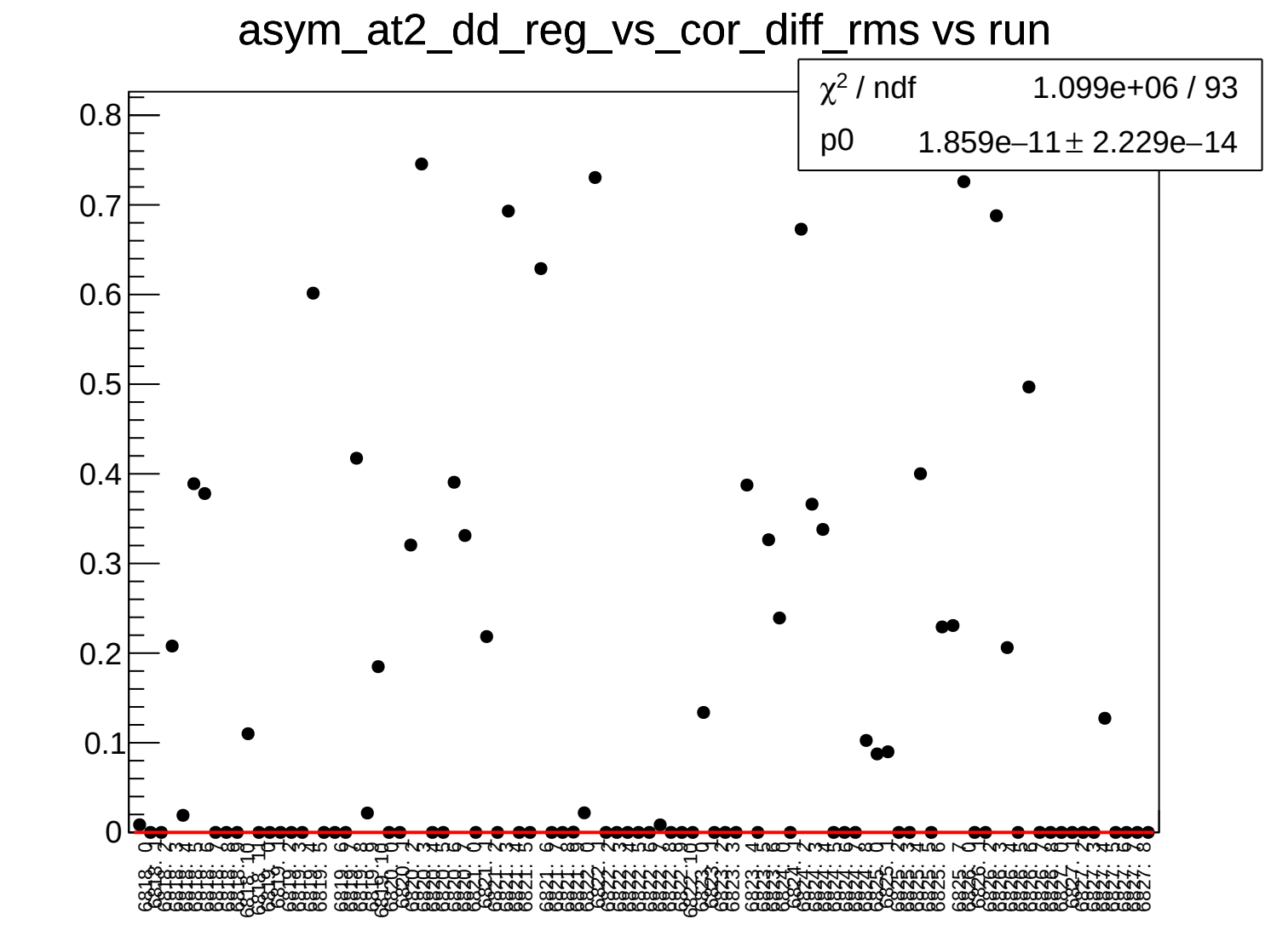

asym_at2_dd_mean vs run
χ^2 / ndf 118.9 / 93
p0 −519.4 ± 2002
×10^3
pull
Entries 94
Mean −340.3
Std Dev 0

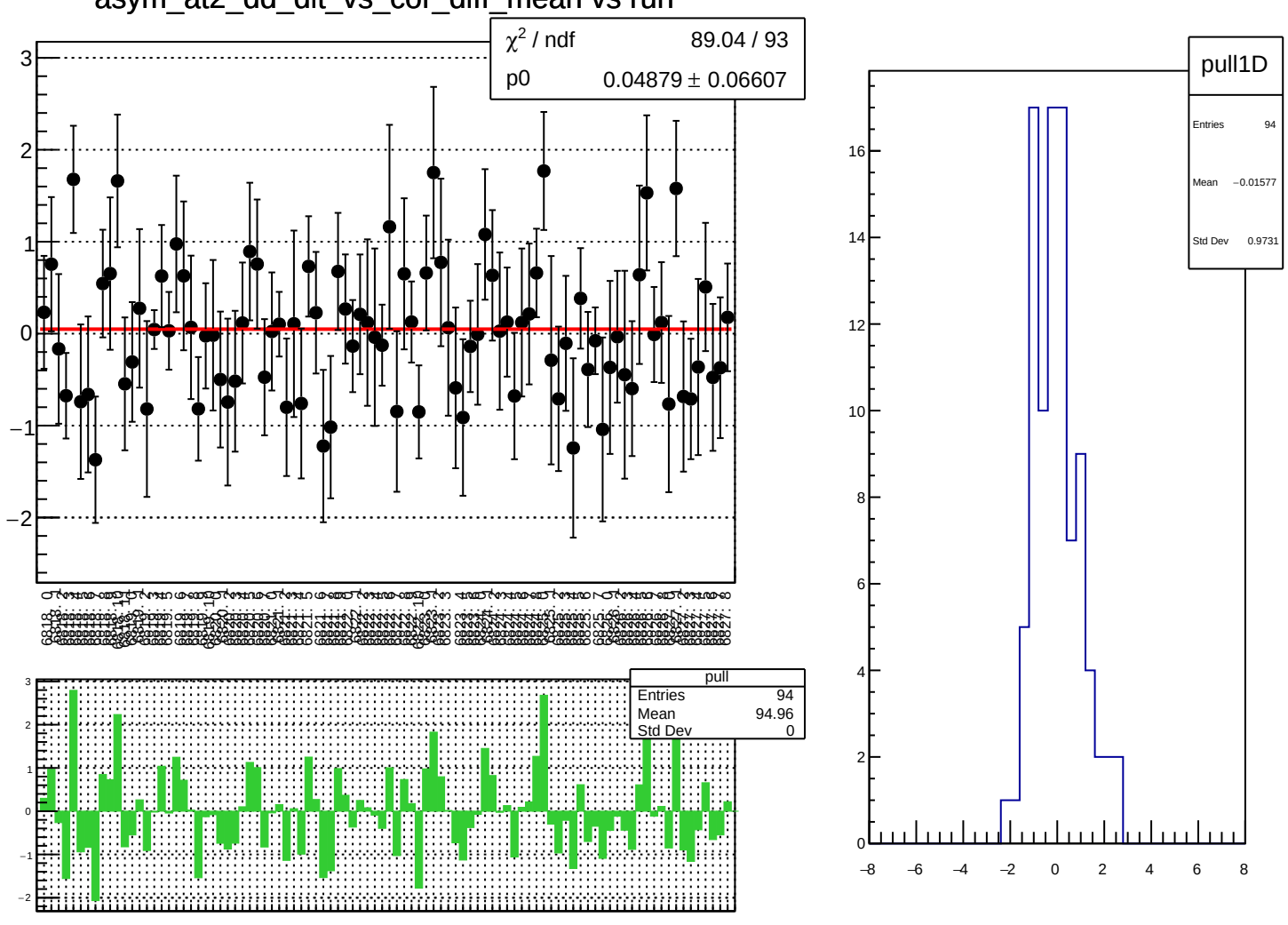

pull1D
Entries 94
Mean −0.00821
Std Dev 1.125

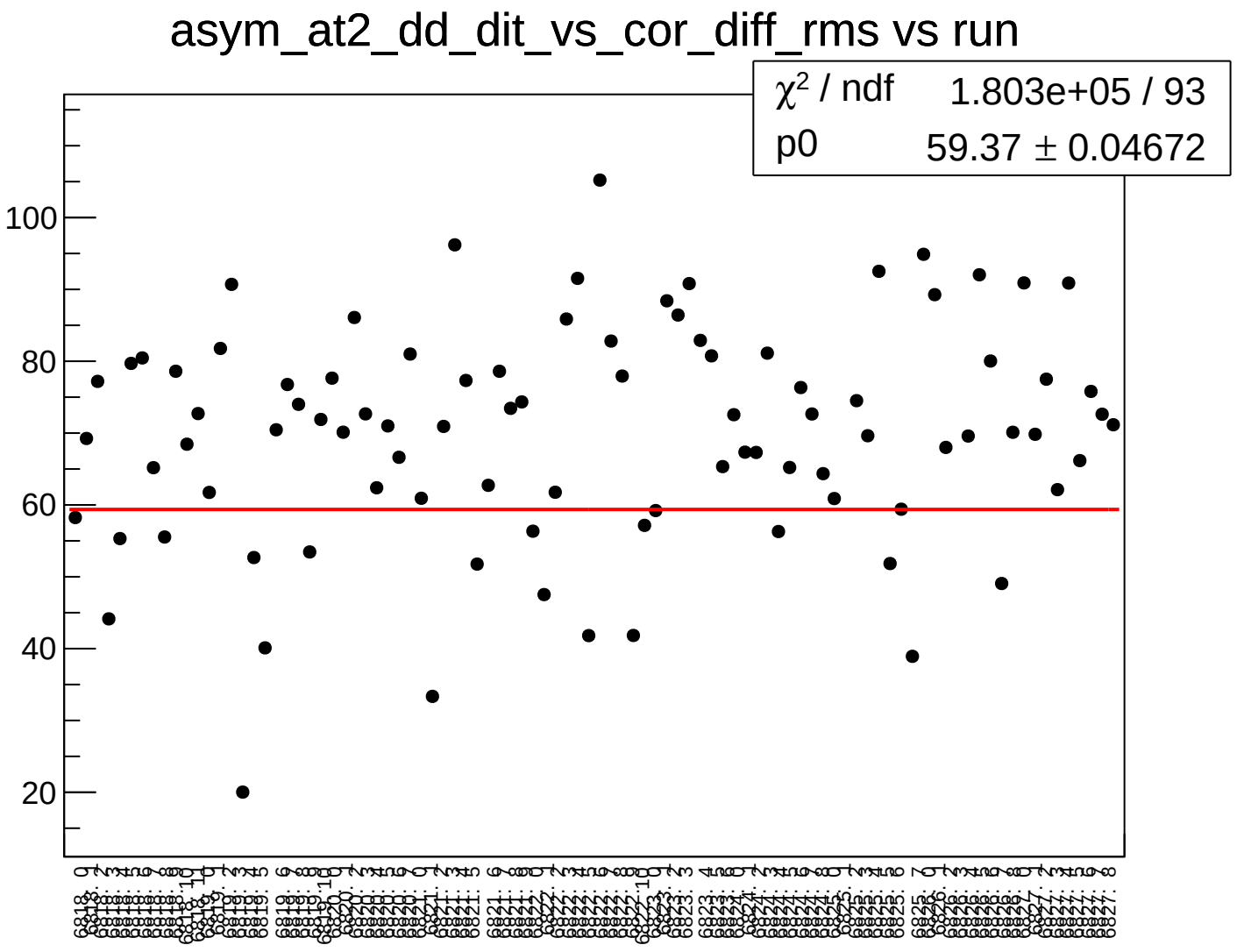

asym_at2_dd_rms vs run
χ² / ndf 226.2 / 93
p0 1896 ± 1.415
1960
1940
1920
1900
1880
1860
1840

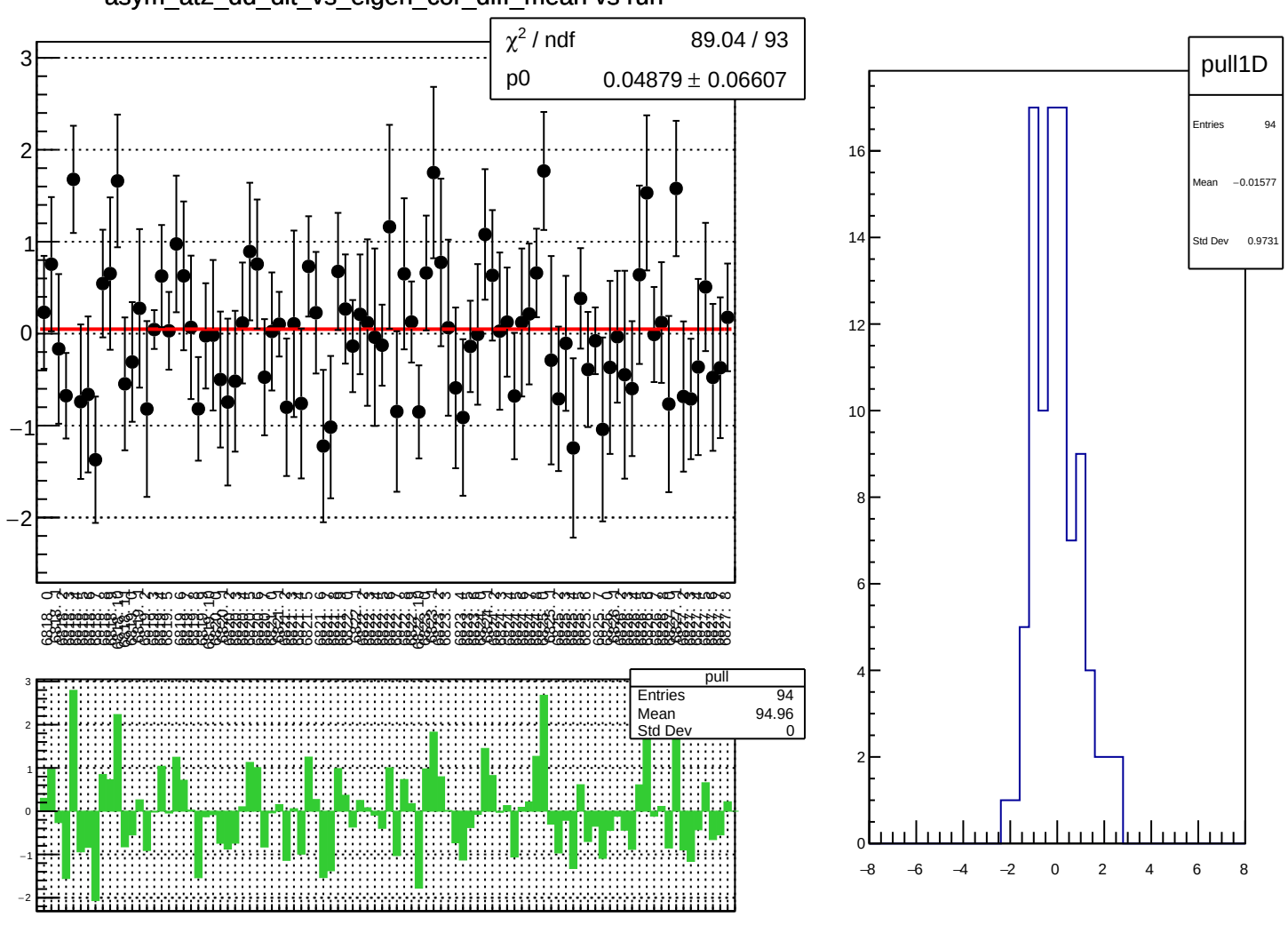

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.24 / 93
p0 −6.034e−14 ± 3.152e−14
pull
Entries 94
Mean 82.13
Std Dev 0

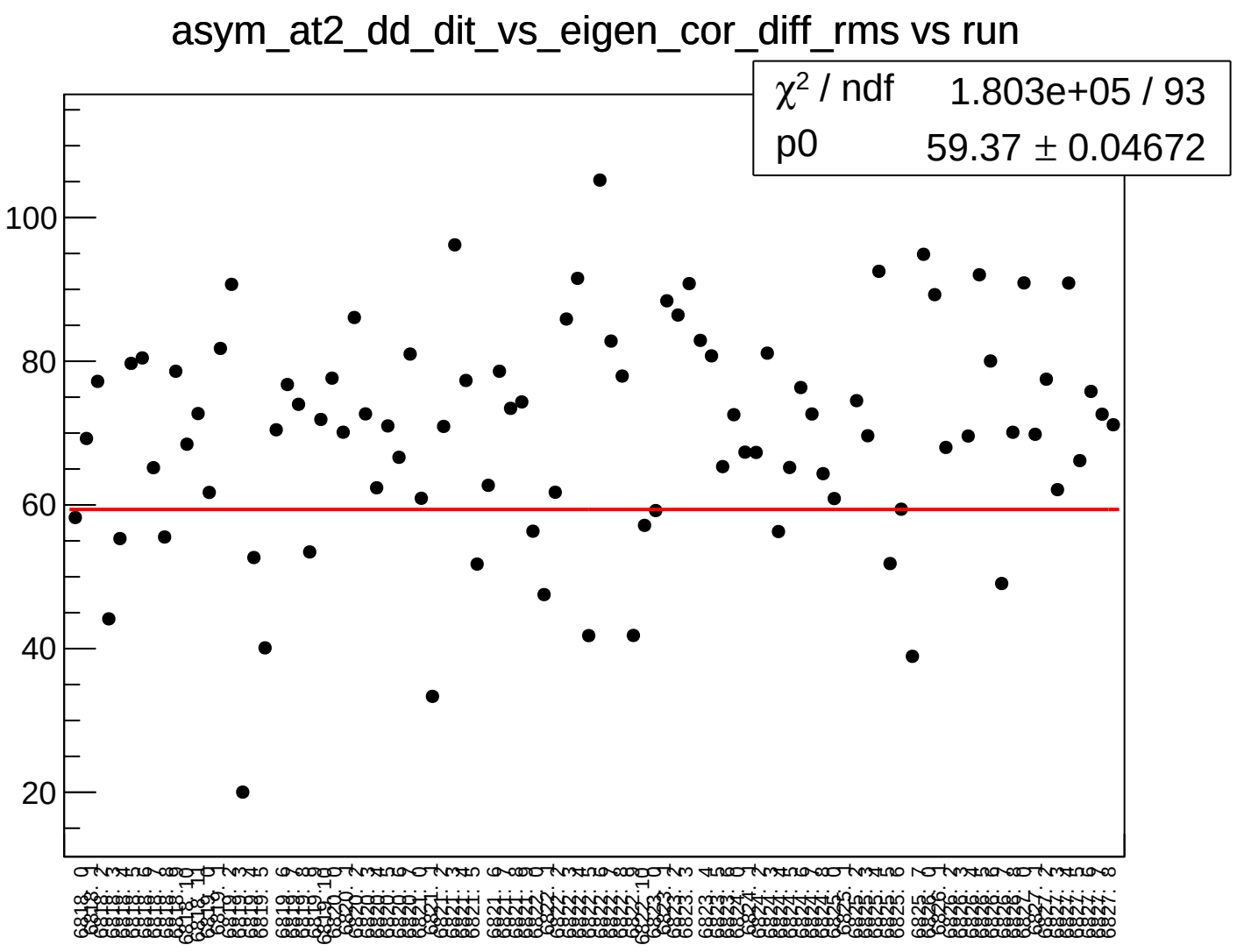

pull1D
Entries 94
Mean −0.1001
Std Dev 0.9637

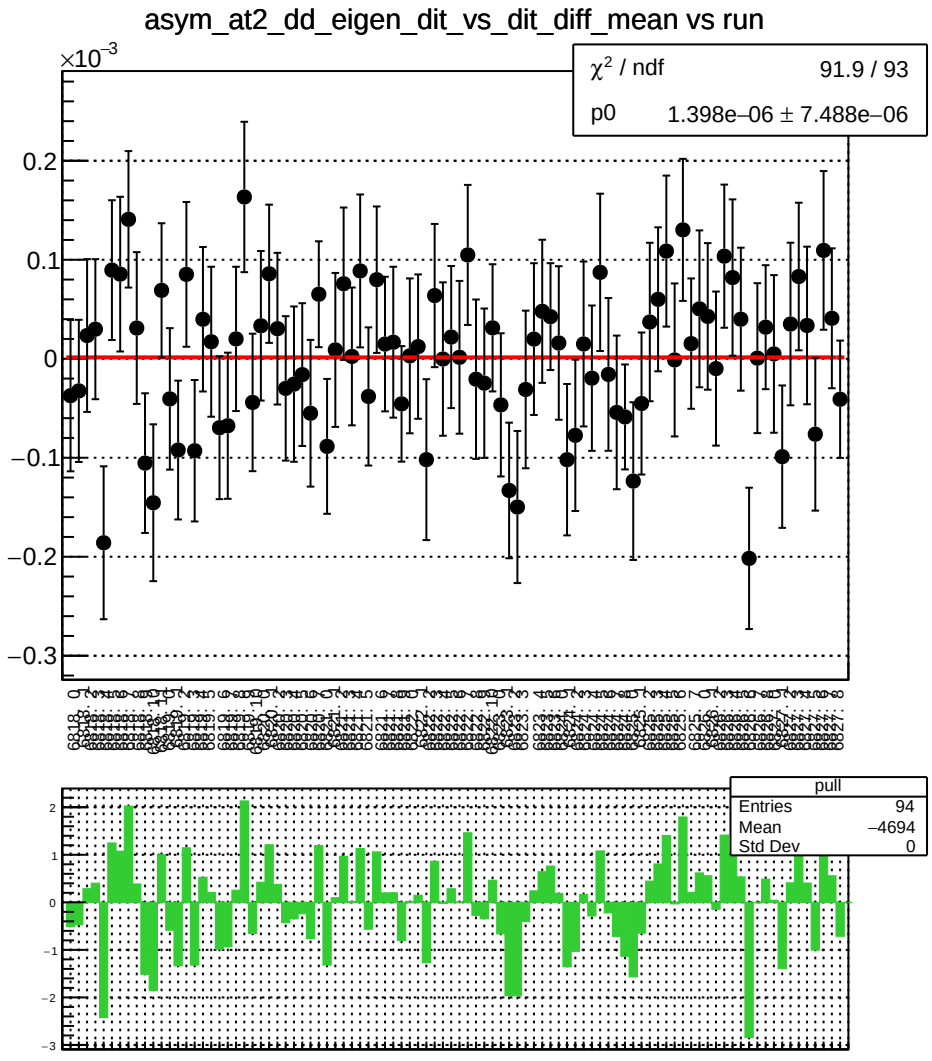

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 93
p0 1.859e−11 ± 2.229e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

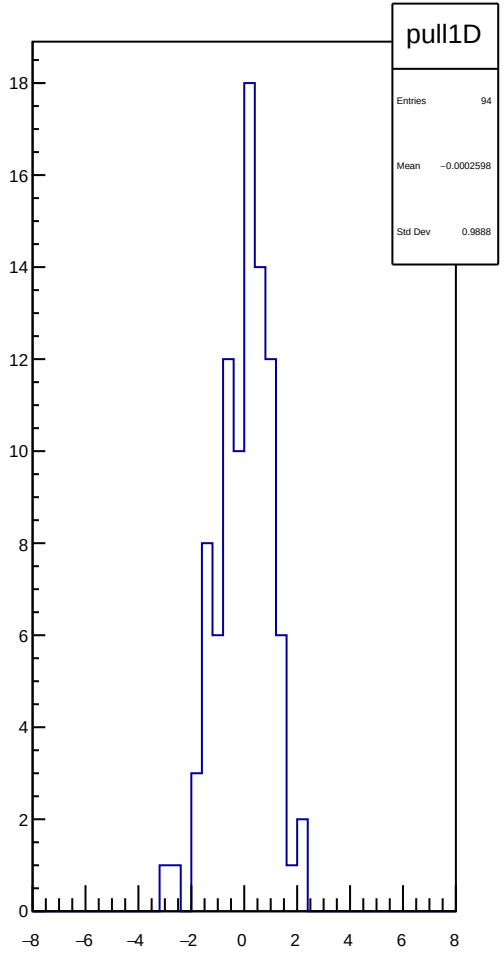

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 93
p0 0.04879 ± 0.06607
pull
Entries 94
Mean 94.96
Std Dev 0
pull1D
Entries 94
Mean −0.01577
Std Dev 0.9731

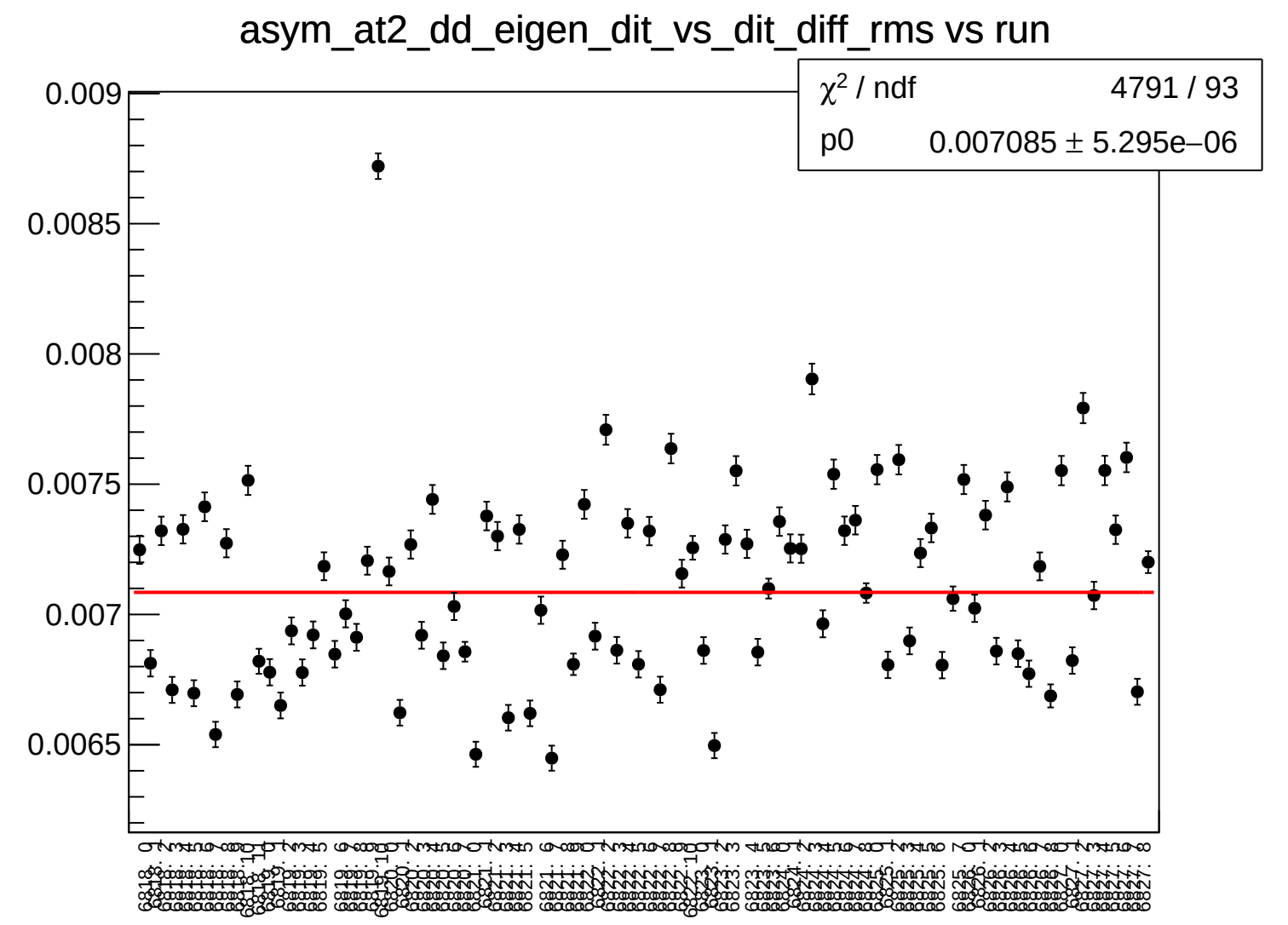

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.803e+05 / 93
p0 59.37 ± 0.04672
100
80
60
40
20

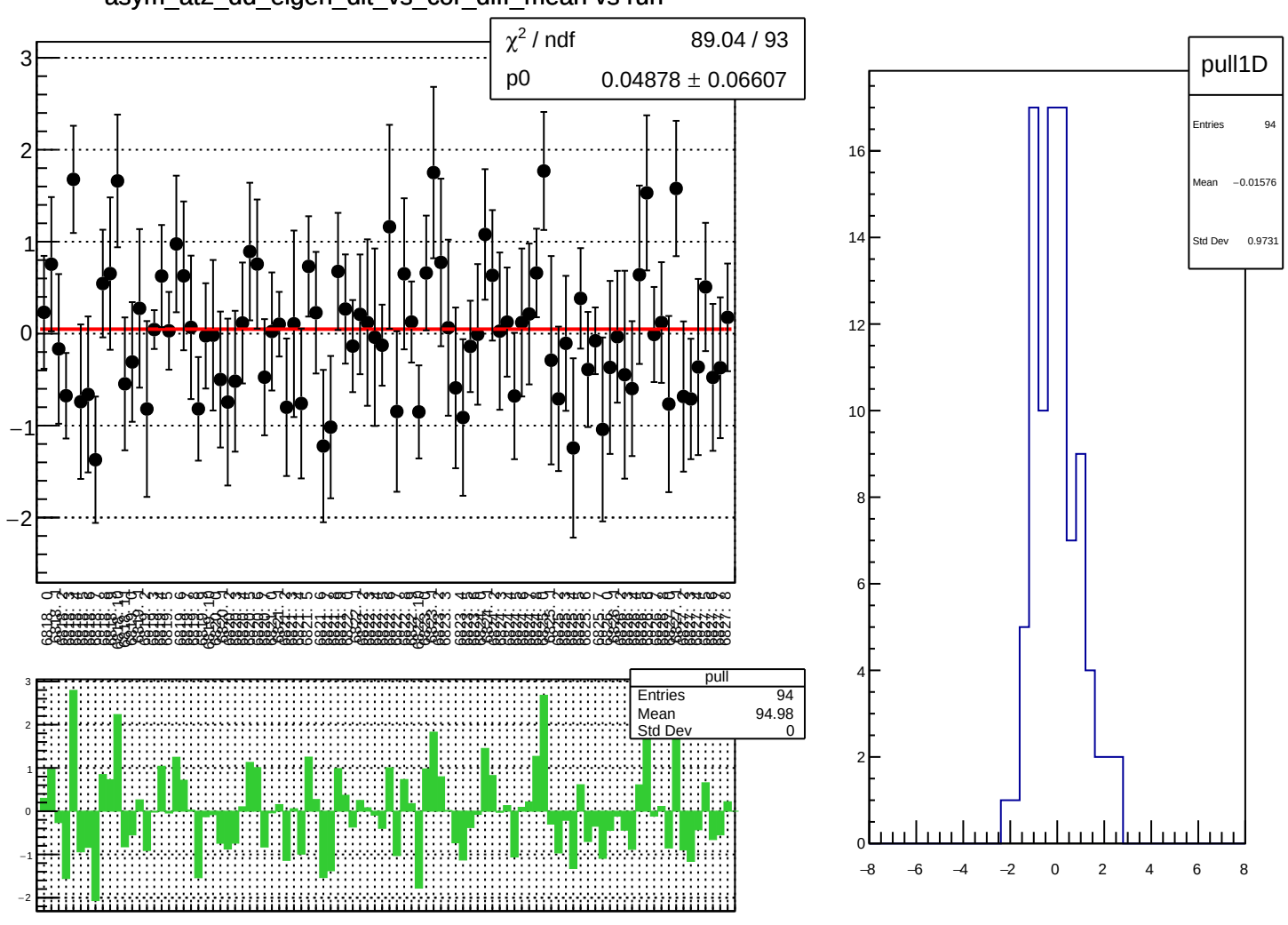

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 93
p0 0.04879 ± 0.06607
pull
Entries 94
Mean 94.96
Std Dev 0
pull1D
Entries 94
Mean −0.01577
Std Dev 0.9731

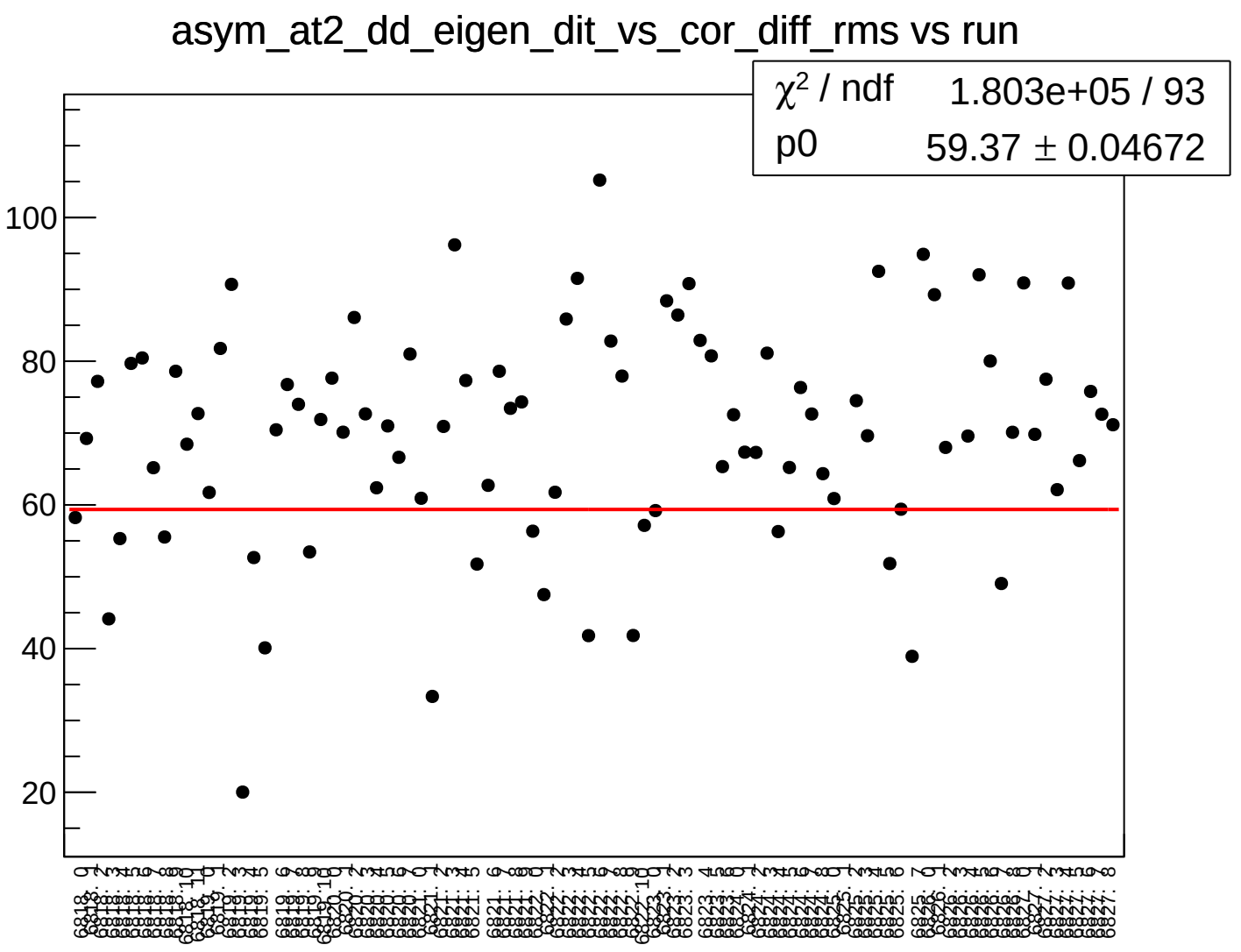

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 93
p0 59.37 ± 0.04672
100
80
60
40
20

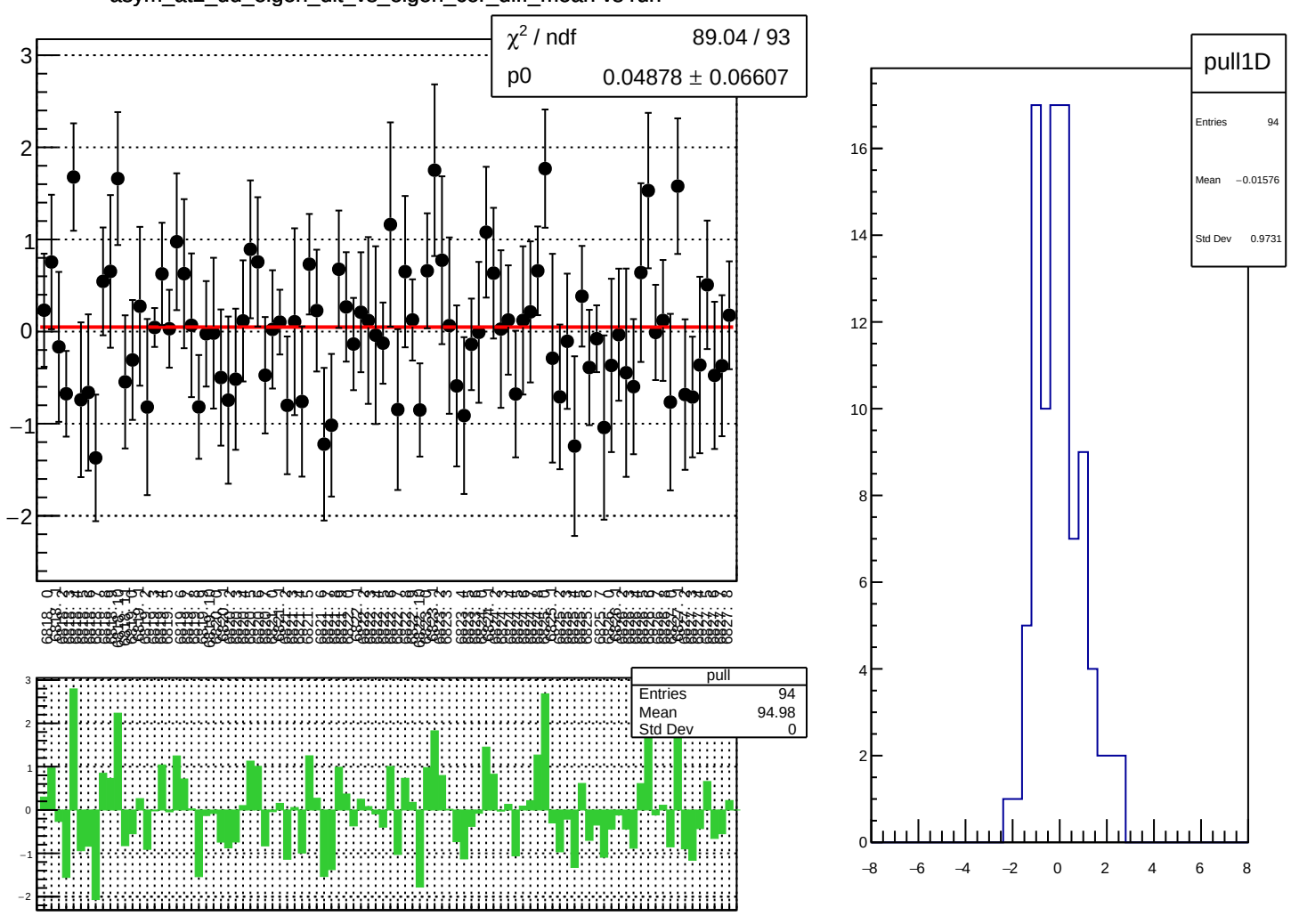

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.9 / 93
p0 1.398e−06 ± 7.488e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean −4694
Std Dev 0
2
1
0
−1
−2
−3

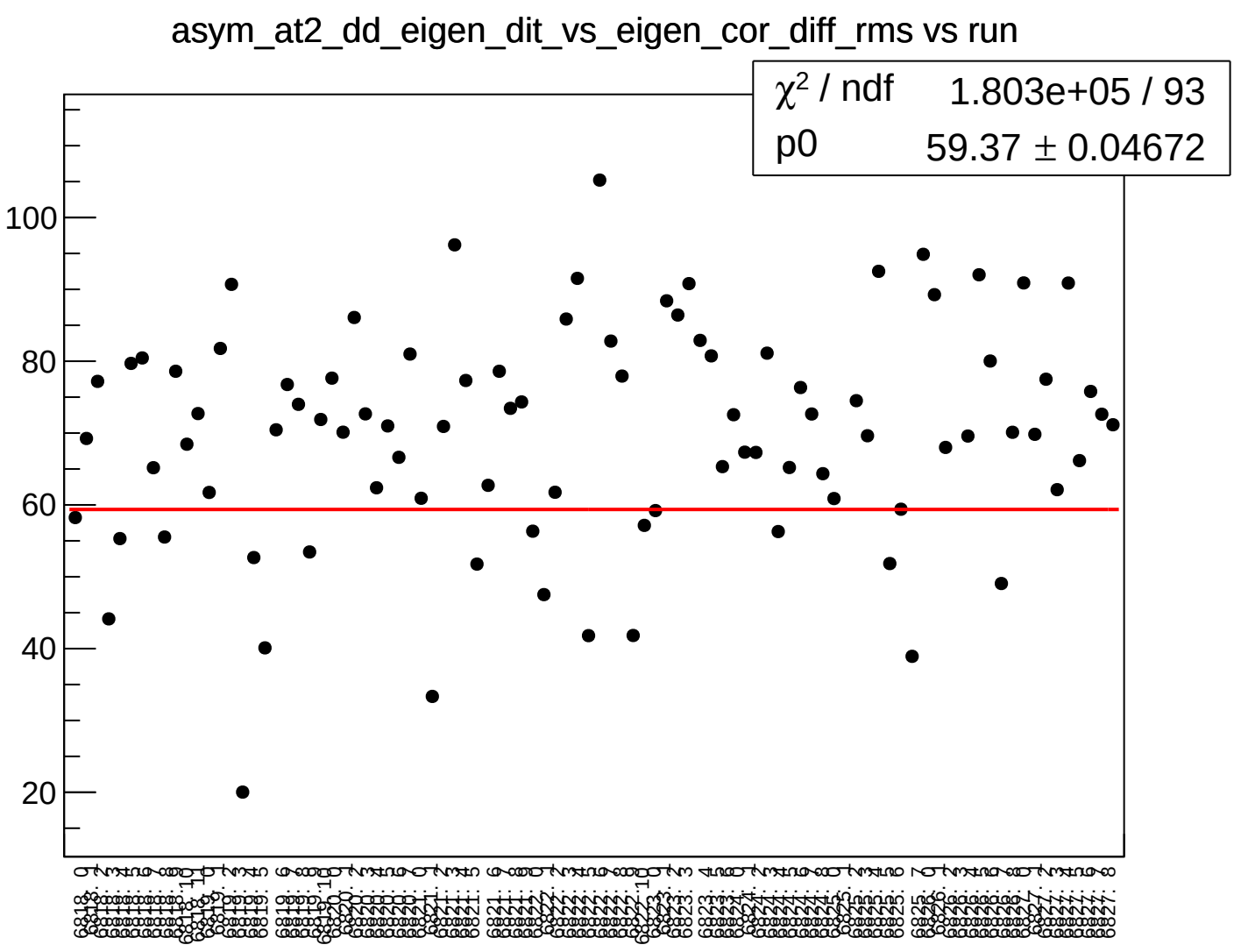

pull1D
Entries 94
Mean −0.0002598
Std Dev 0.9888
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

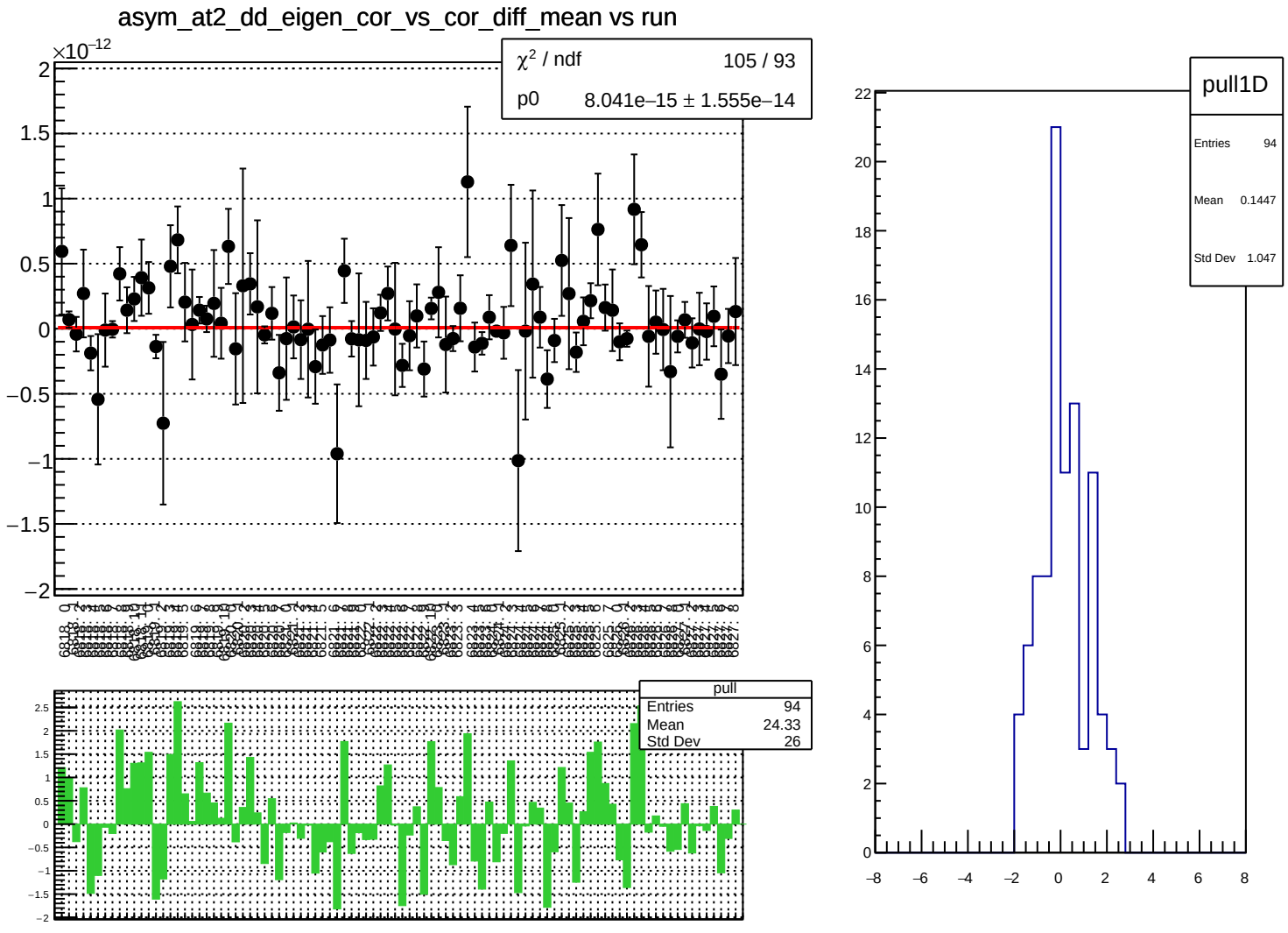

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4791 / 93
p0 0.007085 ± 5.295e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

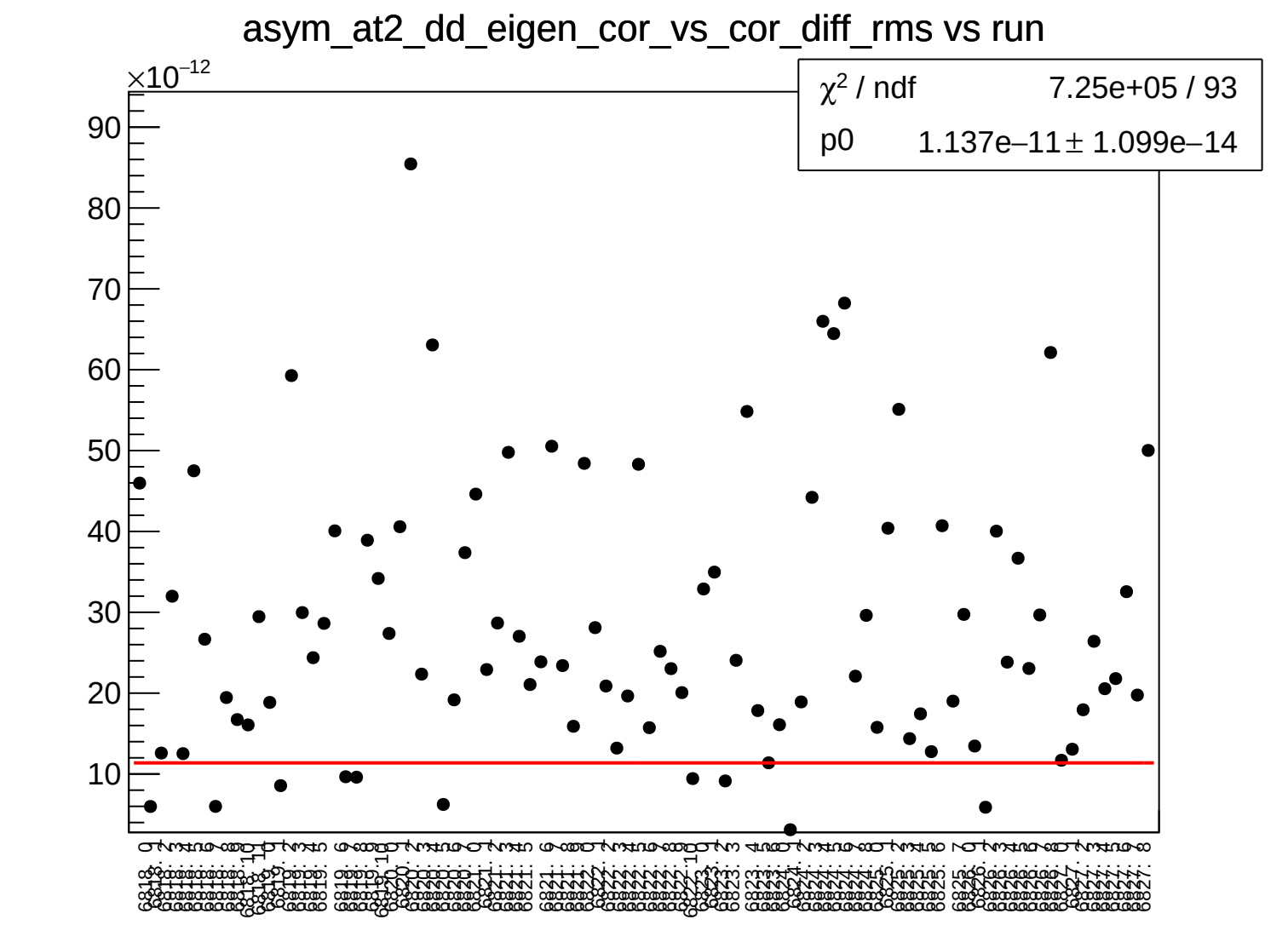

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.04 / 93
p0 0.04878 ± 0.06607
pull
Entries 94
Mean 94.98
Std Dev 0
pull1D
Entries 94
Mean −0.01576
Std Dev 0.9731

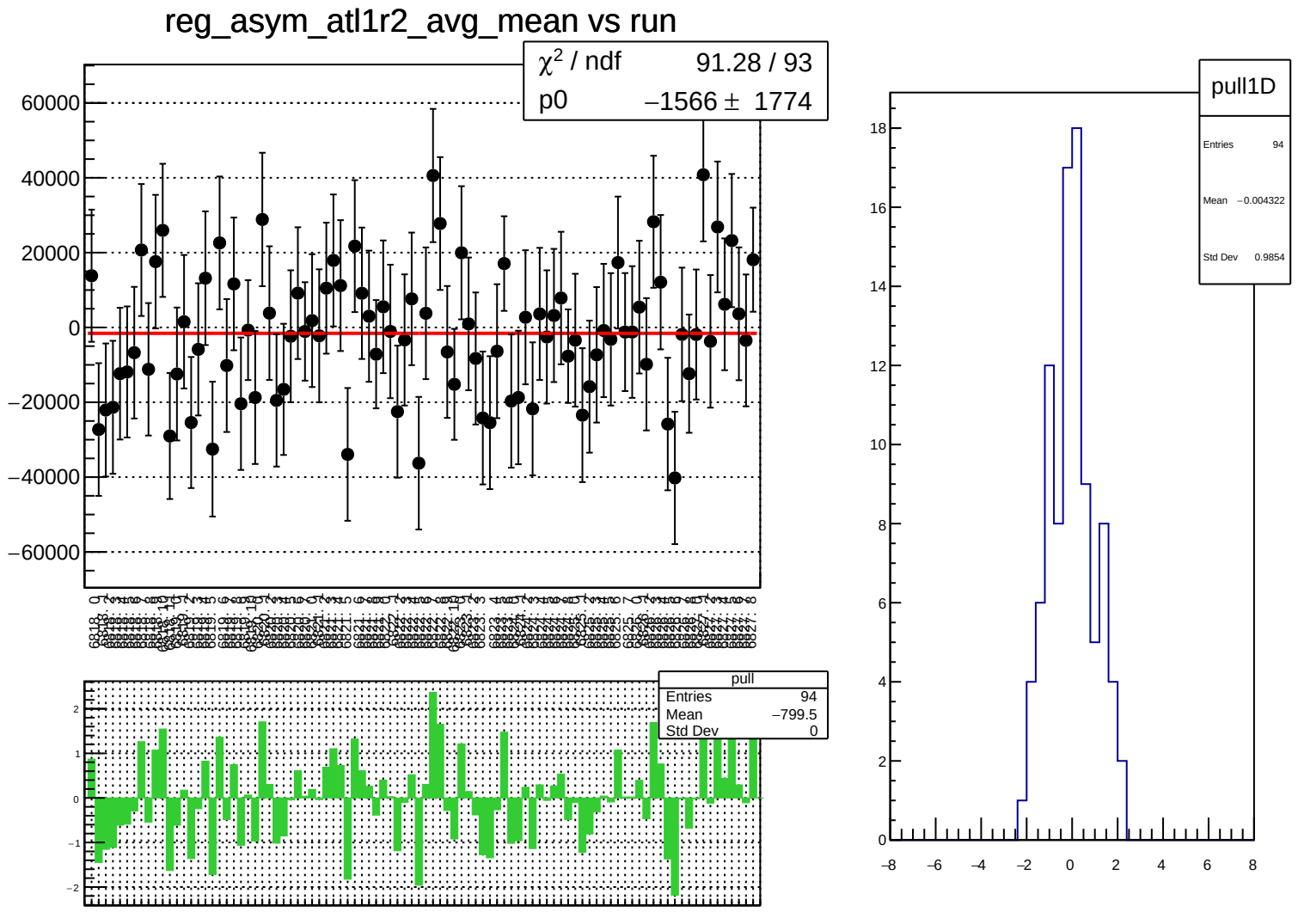

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 93
p0 59.37 ± 0.04672
100
80
60
40
20

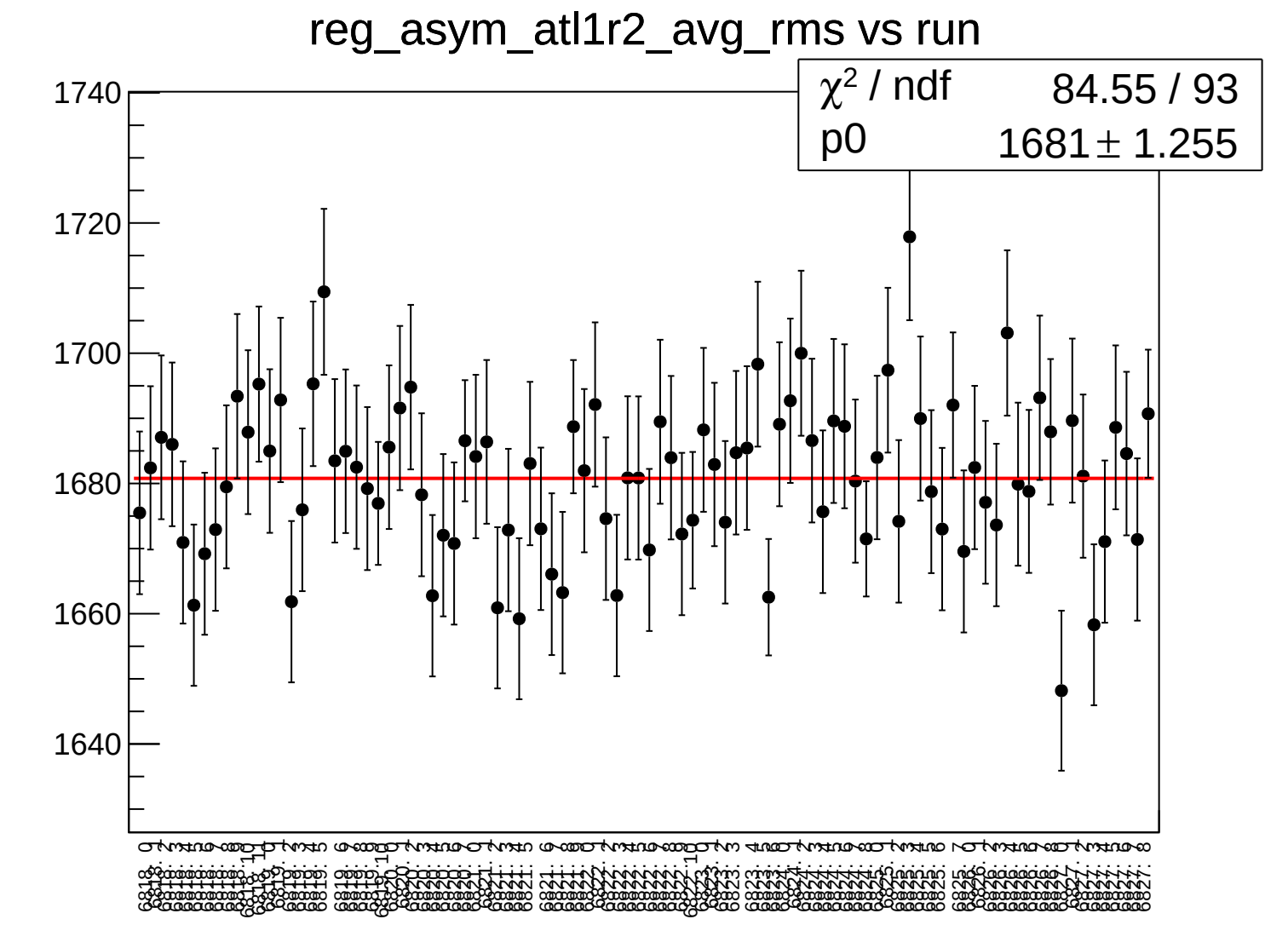

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.04 / 93
p0 0.04878 ± 0.06607
pull
Entries 94
Mean 94.98
Std Dev 0
pull1D
Entries 94
Mean −0.01576
Std Dev 0.9731

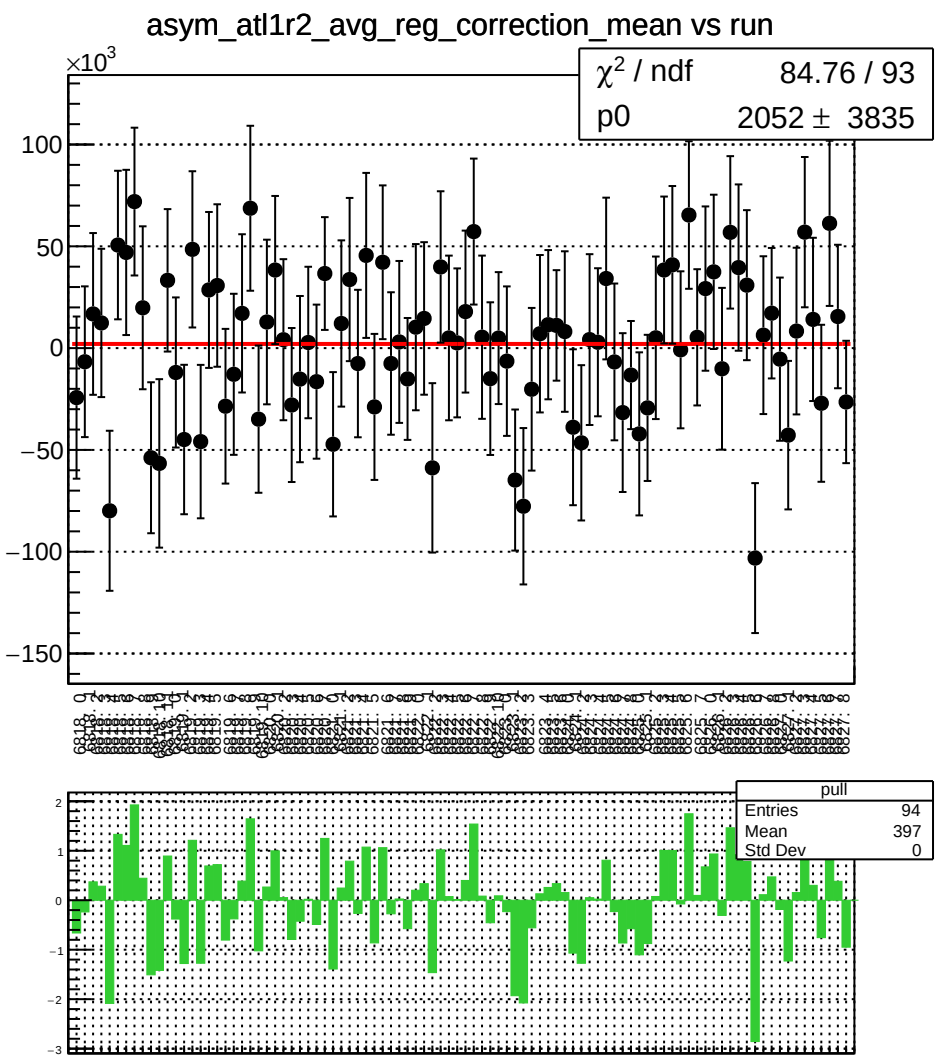

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.803e+05 / 93
p0 59.37 ± 0.04672
100
80
60
40
20

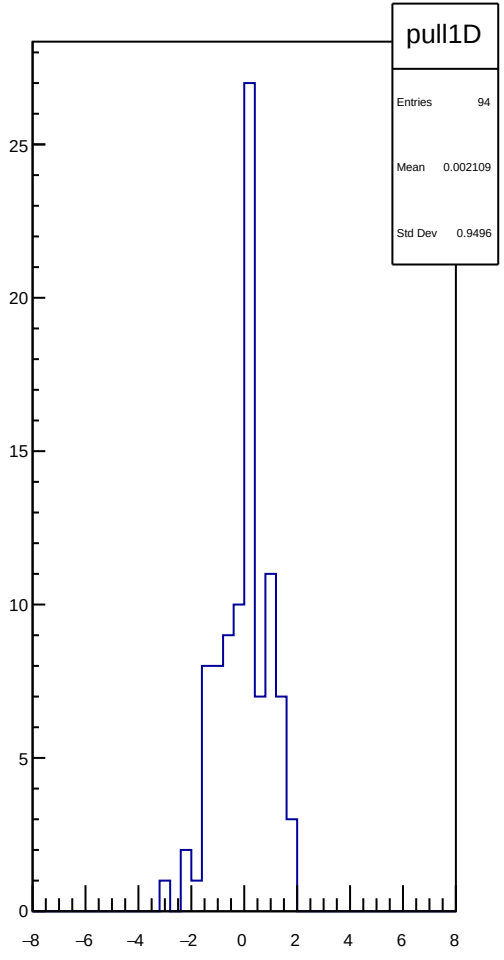

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105 / 93
p0 8.041e−15 ± 1.555e−14
pull
Entries 94
Mean 24.33
Std Dev 26
pull1D
Entries 94
Mean 0.1447
Std Dev 1.047

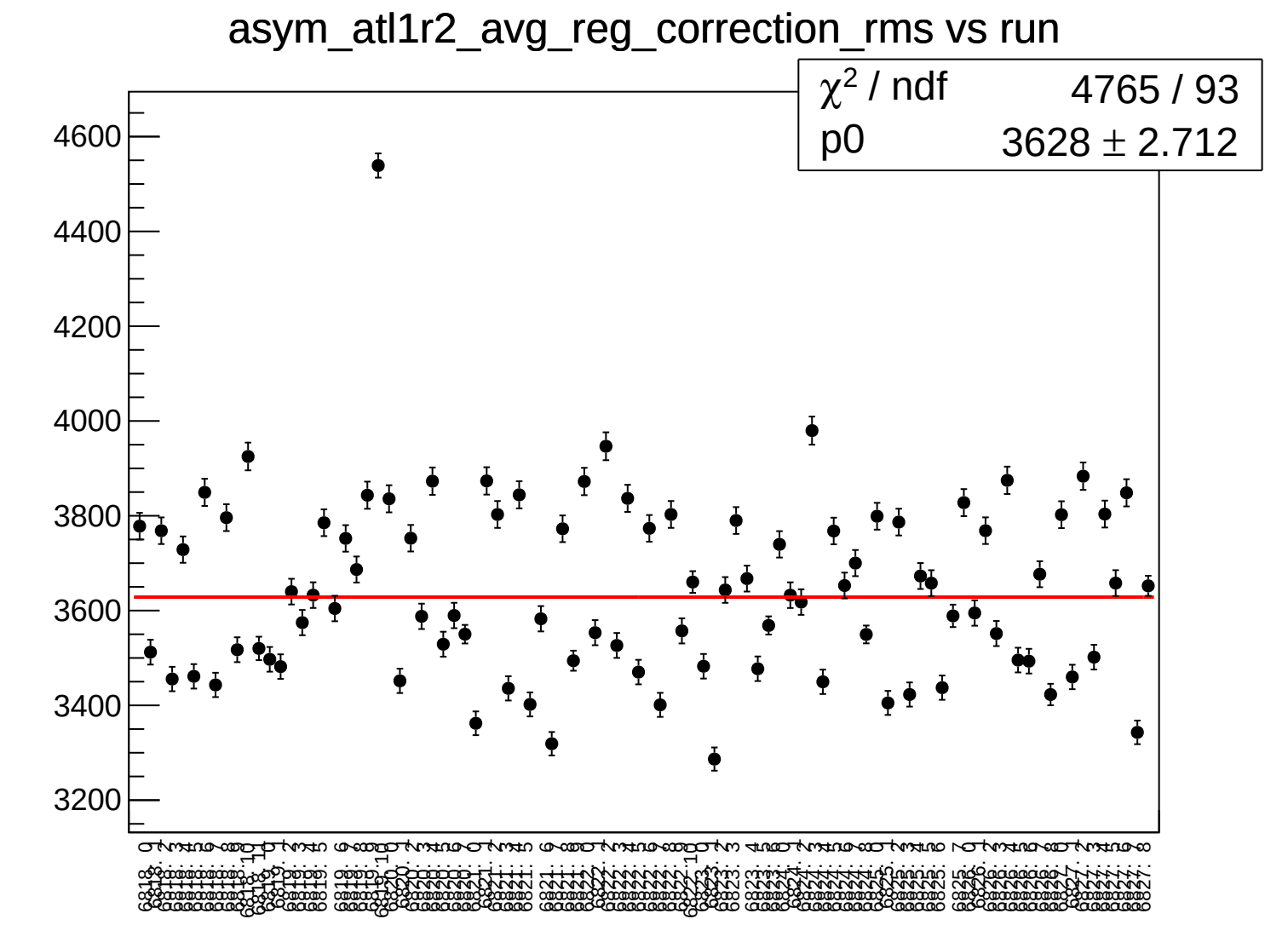

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.25e+05 / 93
p0 1.137e−11 ± 1.099e−14
90
80
70
60
50
40
30
20
10

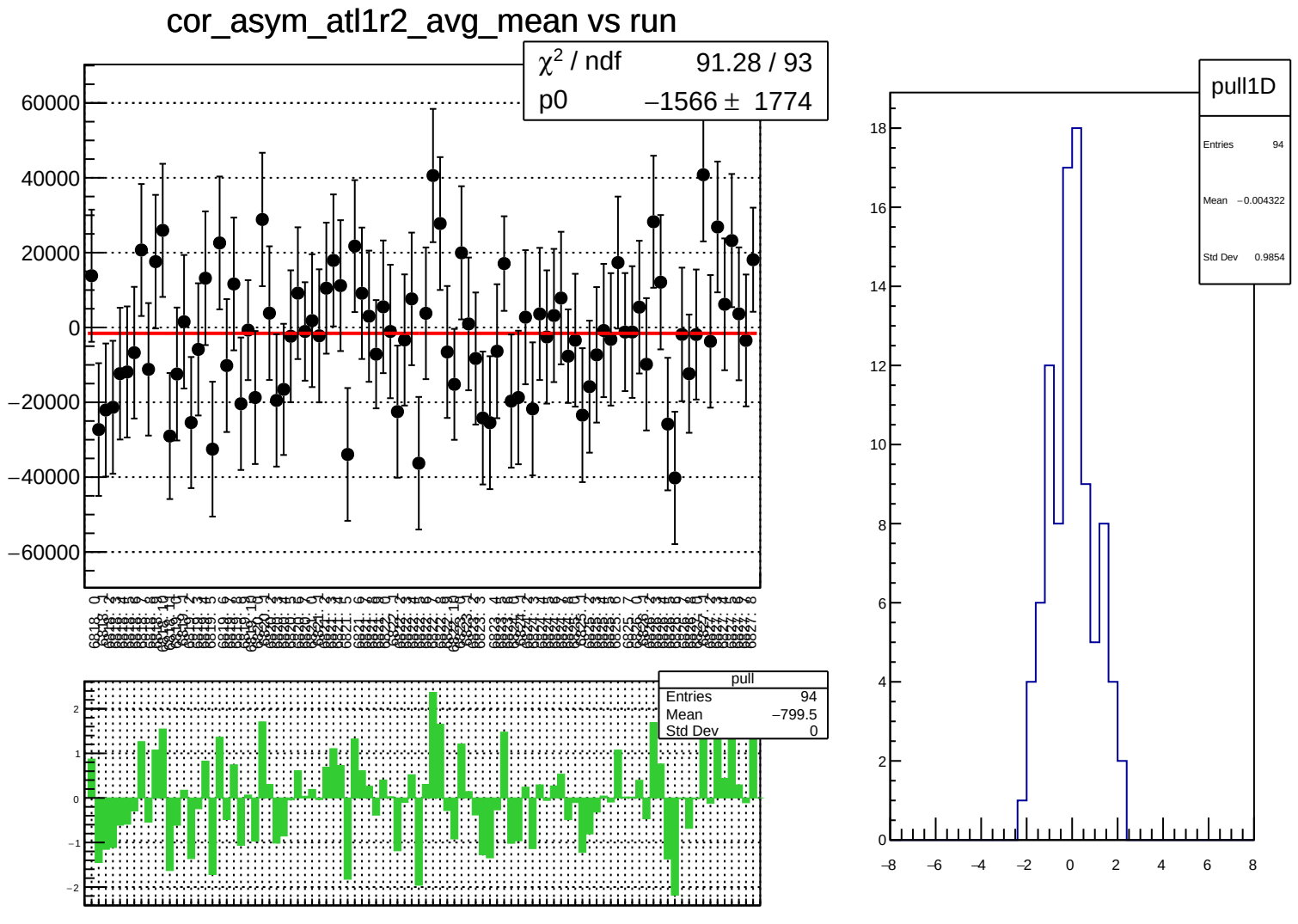

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 91.28 / 93
p0 −1566 ± 1774
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −799.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004322
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

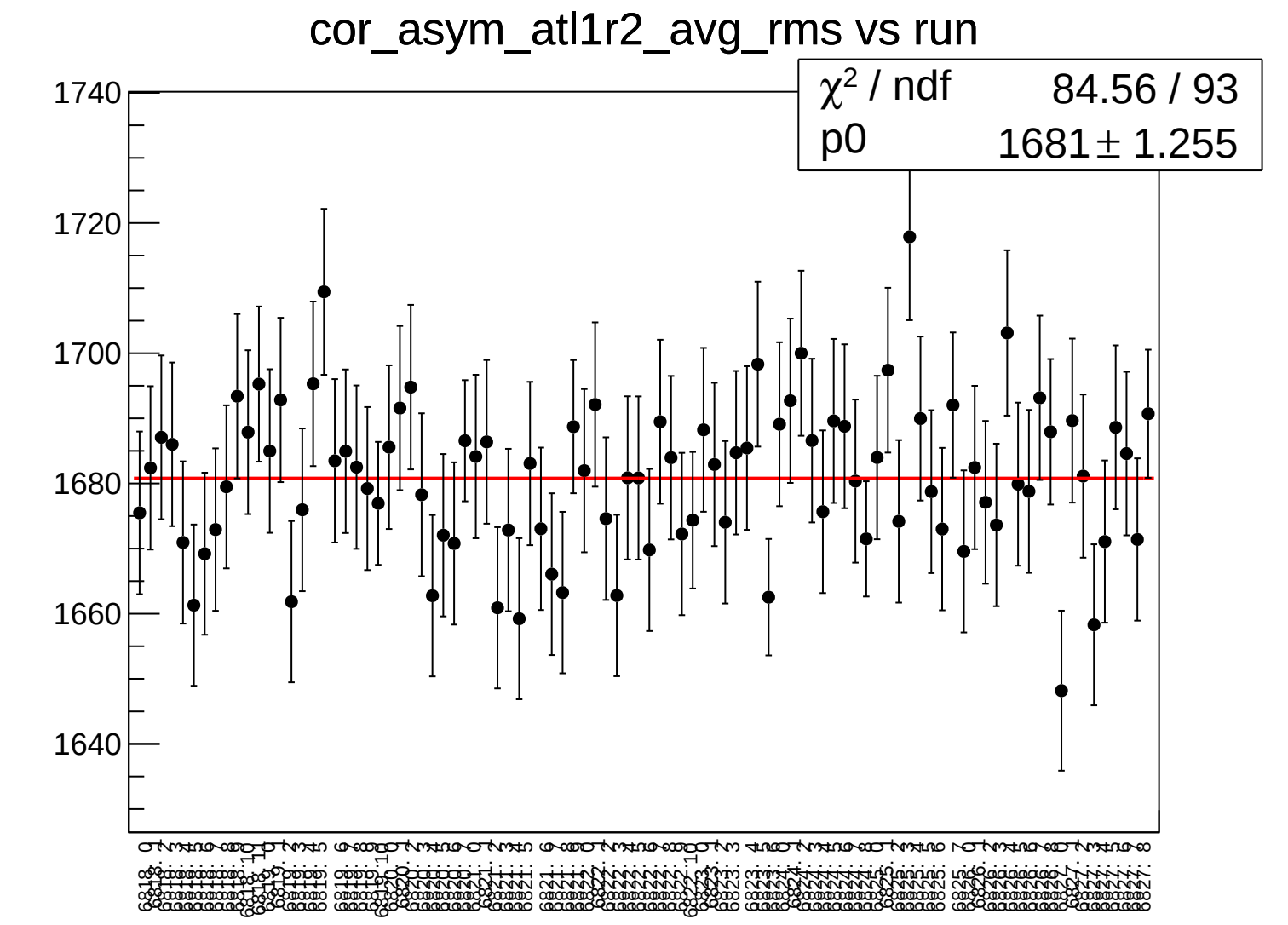

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 84.55 / 93
p0 1681 ± 1.255
1740
1720
1700
1680
1660
1640

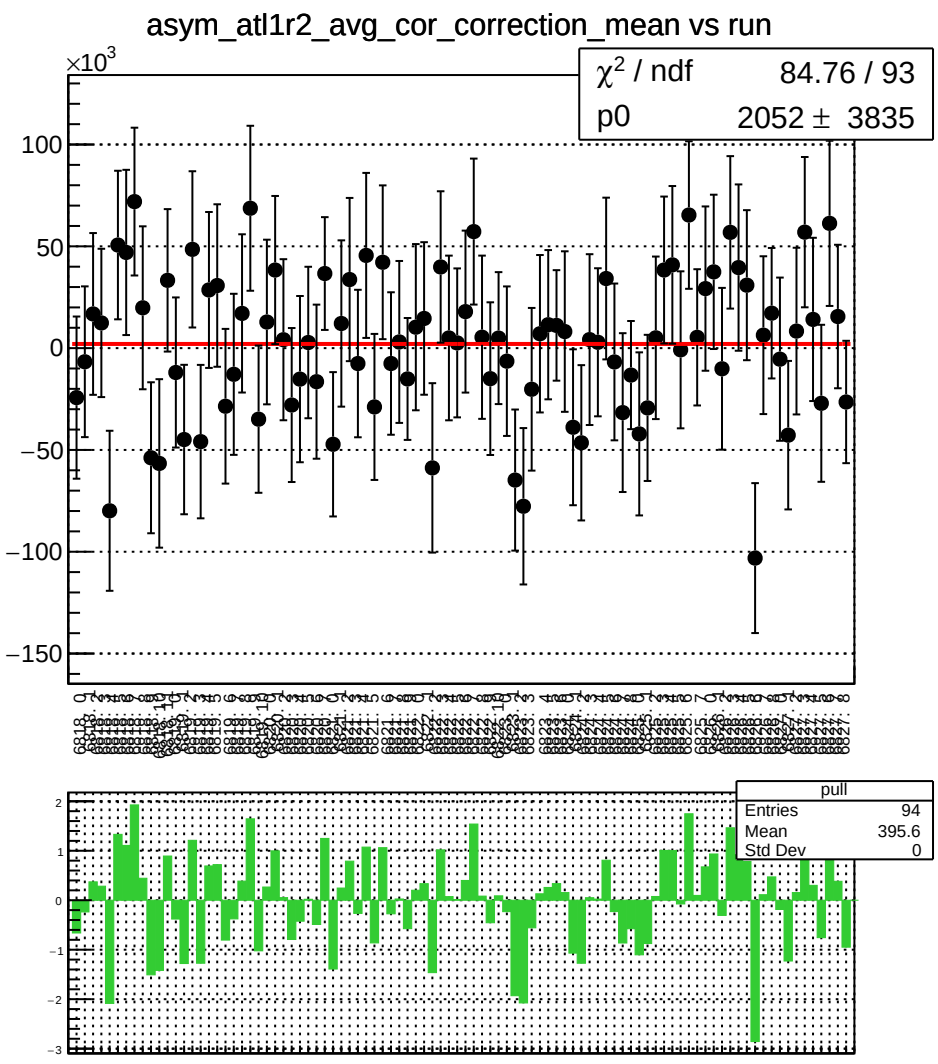

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 84.76 / 93
p0 2052 ± 3835
100
50
0
−50
−100
−150
pull
Entries 94
Mean 397
Std Dev 0
2
1
0
−1
−2
−3

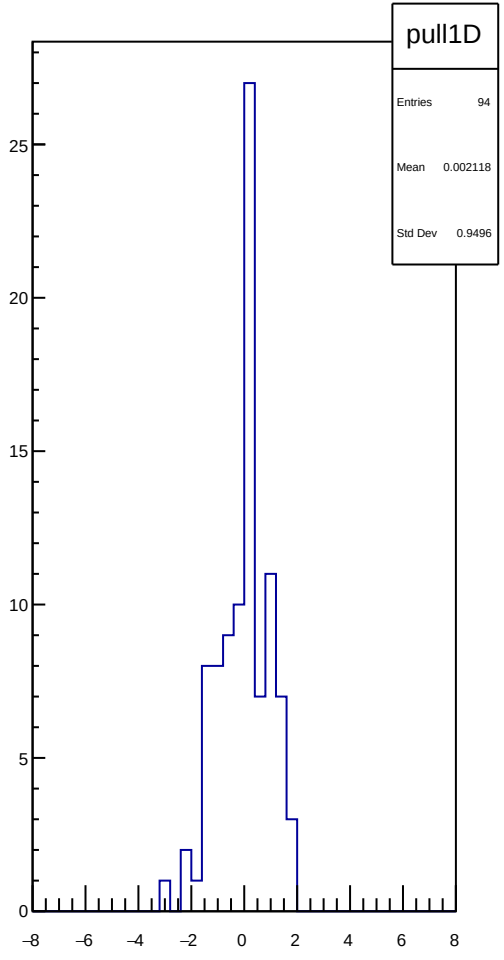

pull1D
Entries 94
Mean 0.002109
Std Dev 0.9496
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

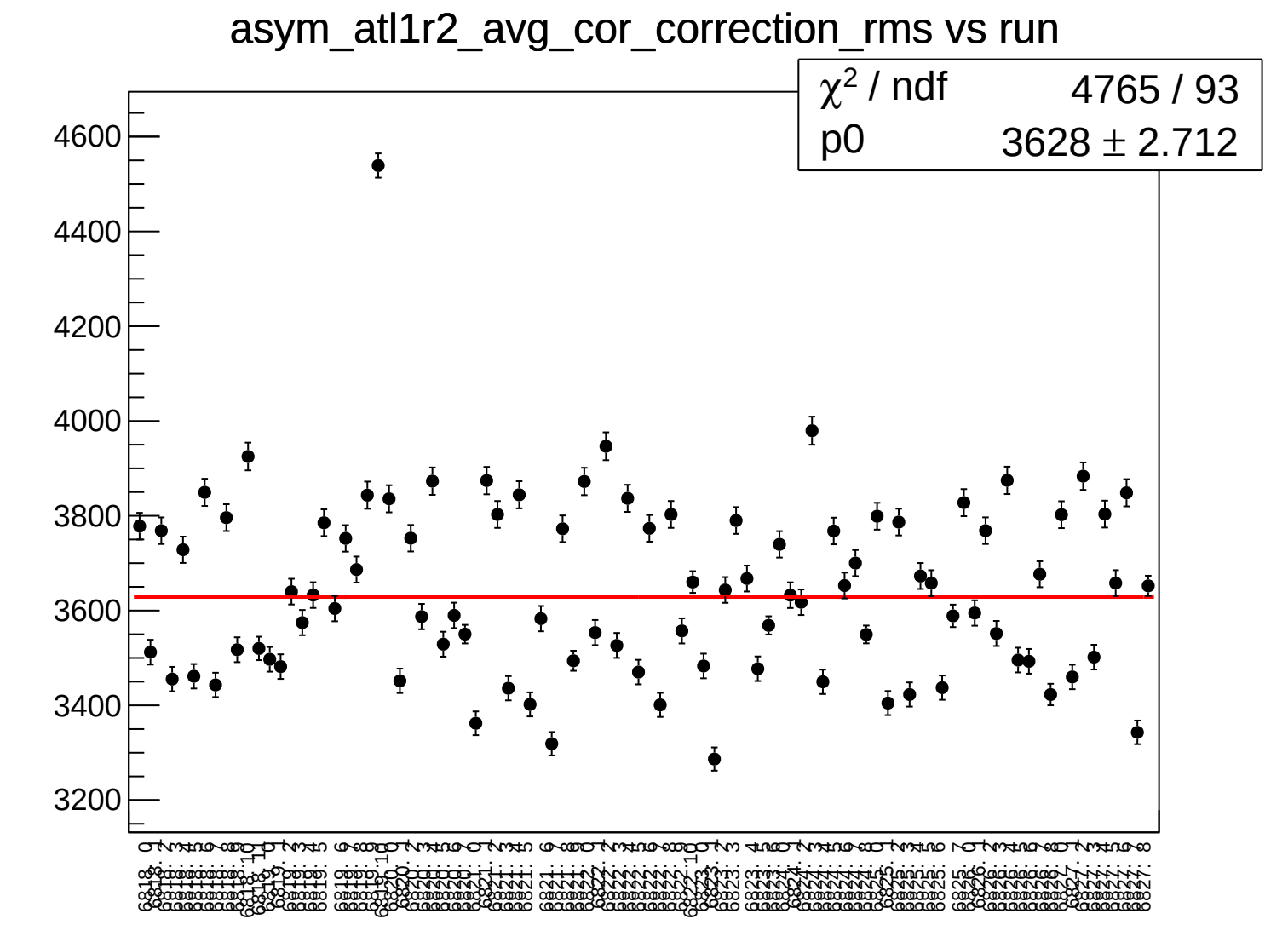

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 4765 / 93
p0 3628 ± 2.712
4600
4400
4200
4000
3800
3600
3400
3200

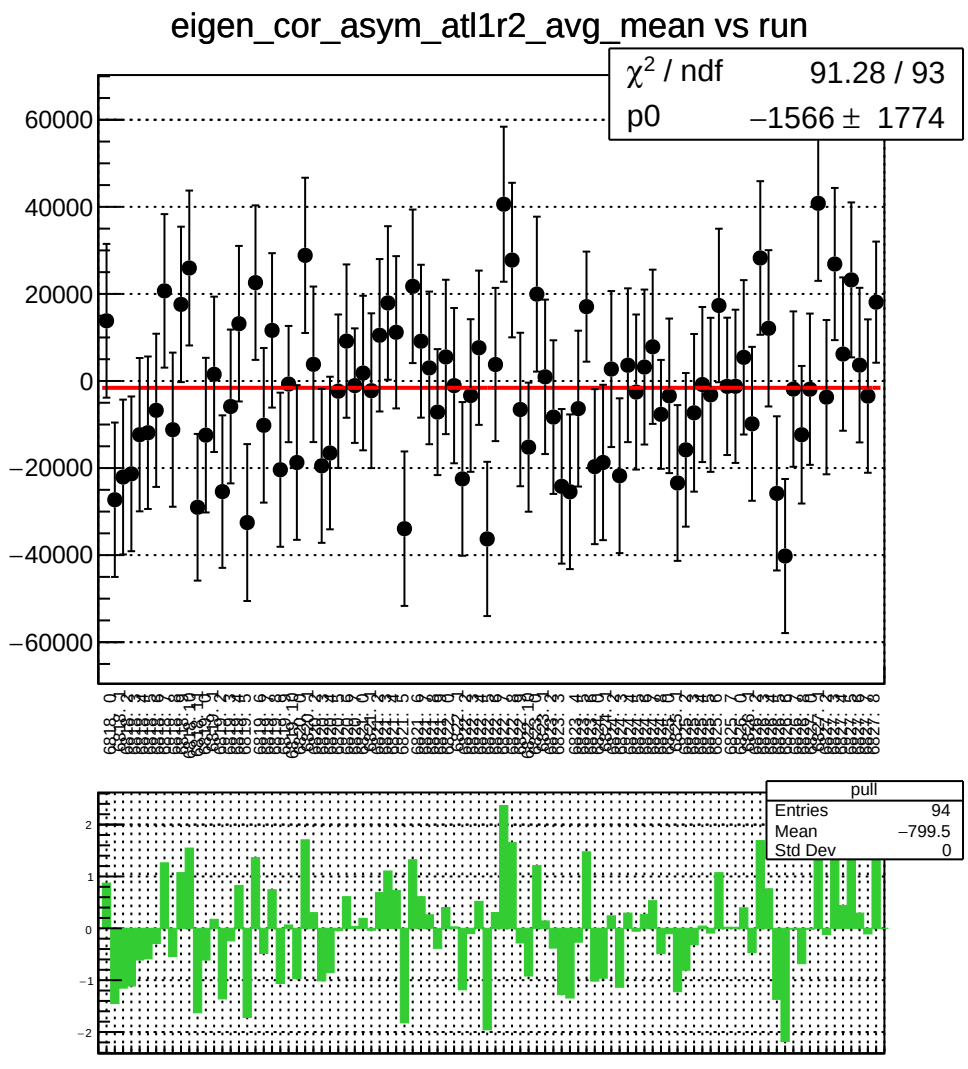

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 91.28 / 93
p0 −1566 ± 1774
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −799.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004322
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

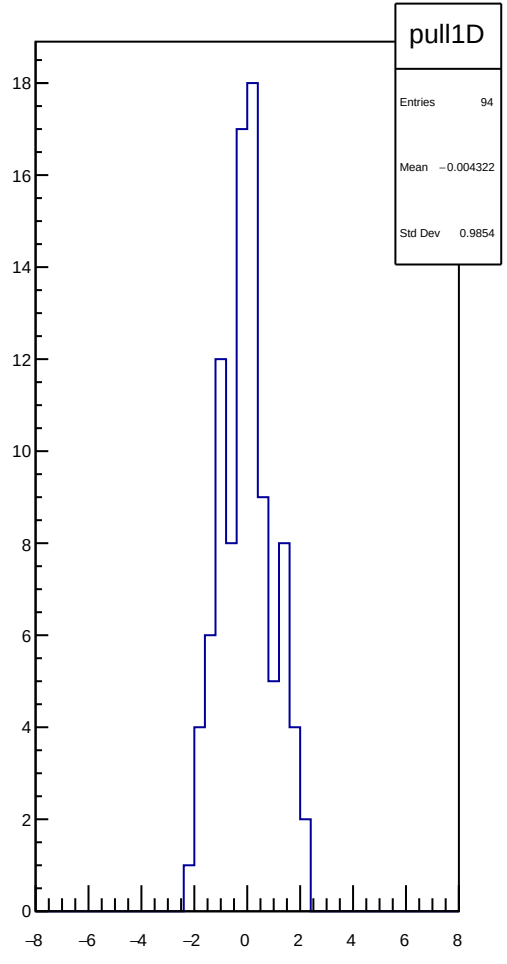

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 84.56 / 93
p0 1681 ± 1.255
1740
1720
1700
1680
1660
1640

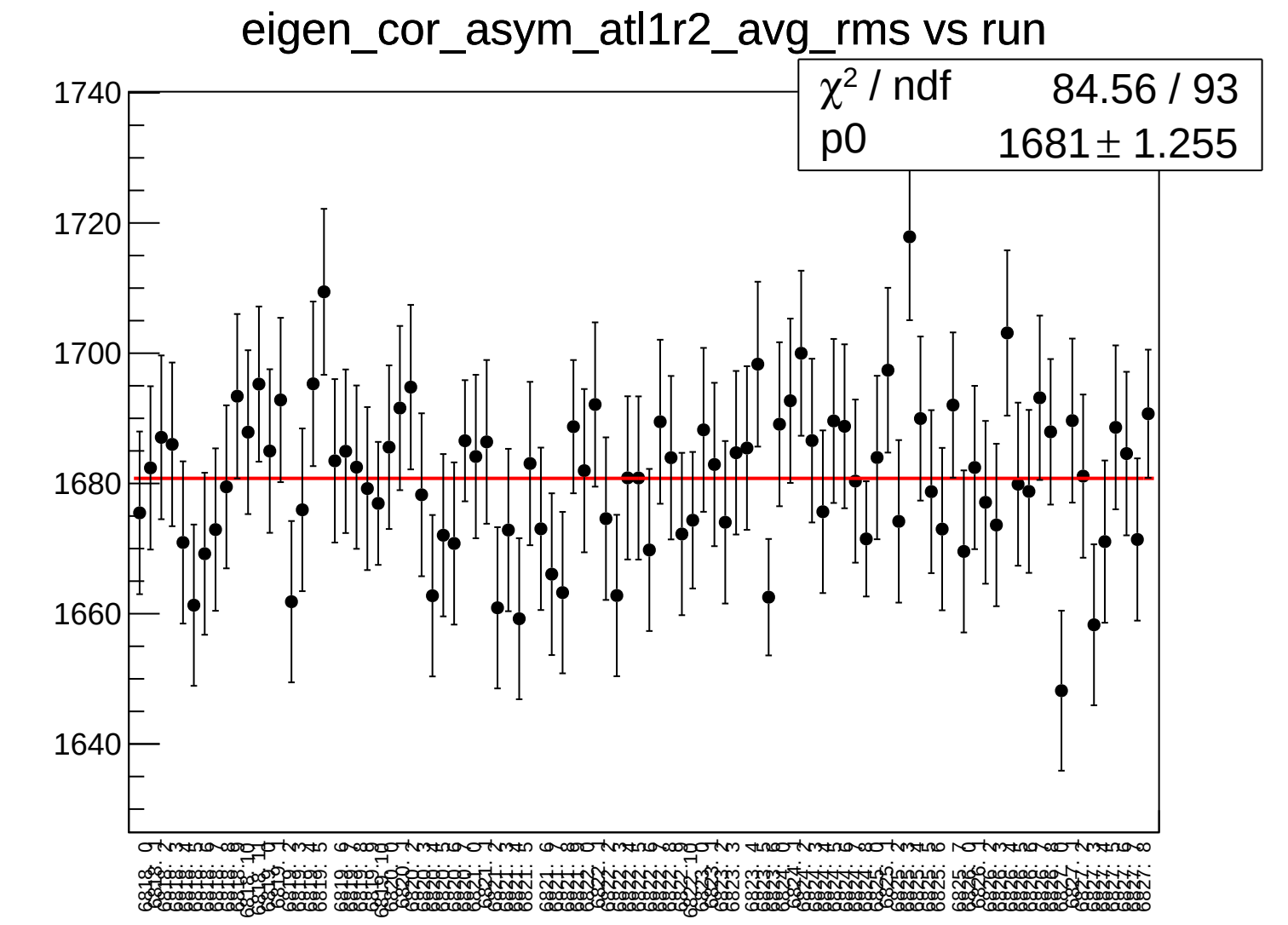

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.76 / 93
p0 2052 ± 3835
100
50
0
−50
−100
−150
pull
Entries 94
Mean 395.6
Std Dev 0
2
1
0
−1
−2
−3

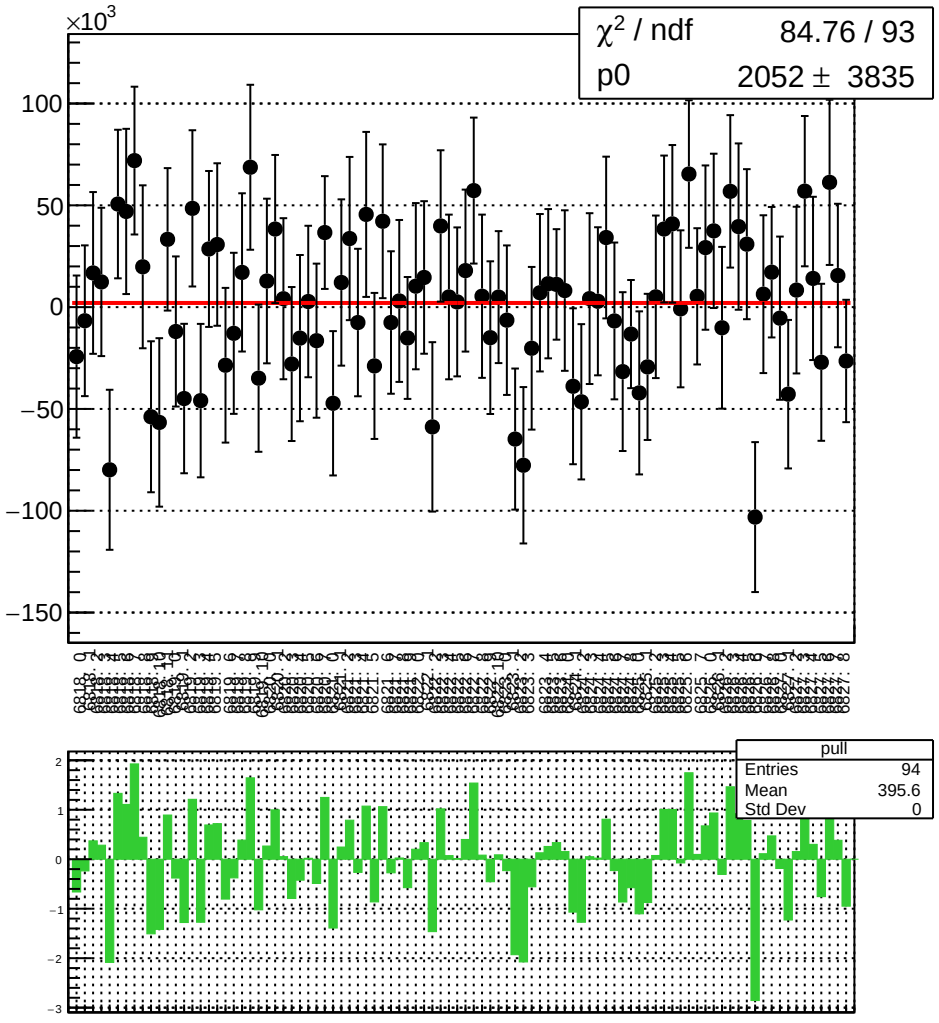

pull1D
Entries 94
Mean 0.002118
Std Dev 0.9496
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

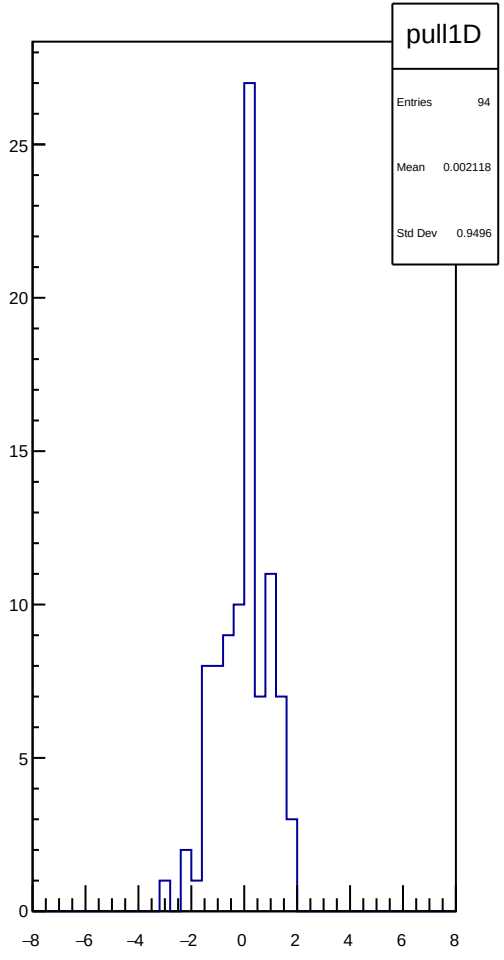

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 4765 / 93
p0 3628 ± 2.712
4600
4400
4200
4000
3800
3600
3400
3200

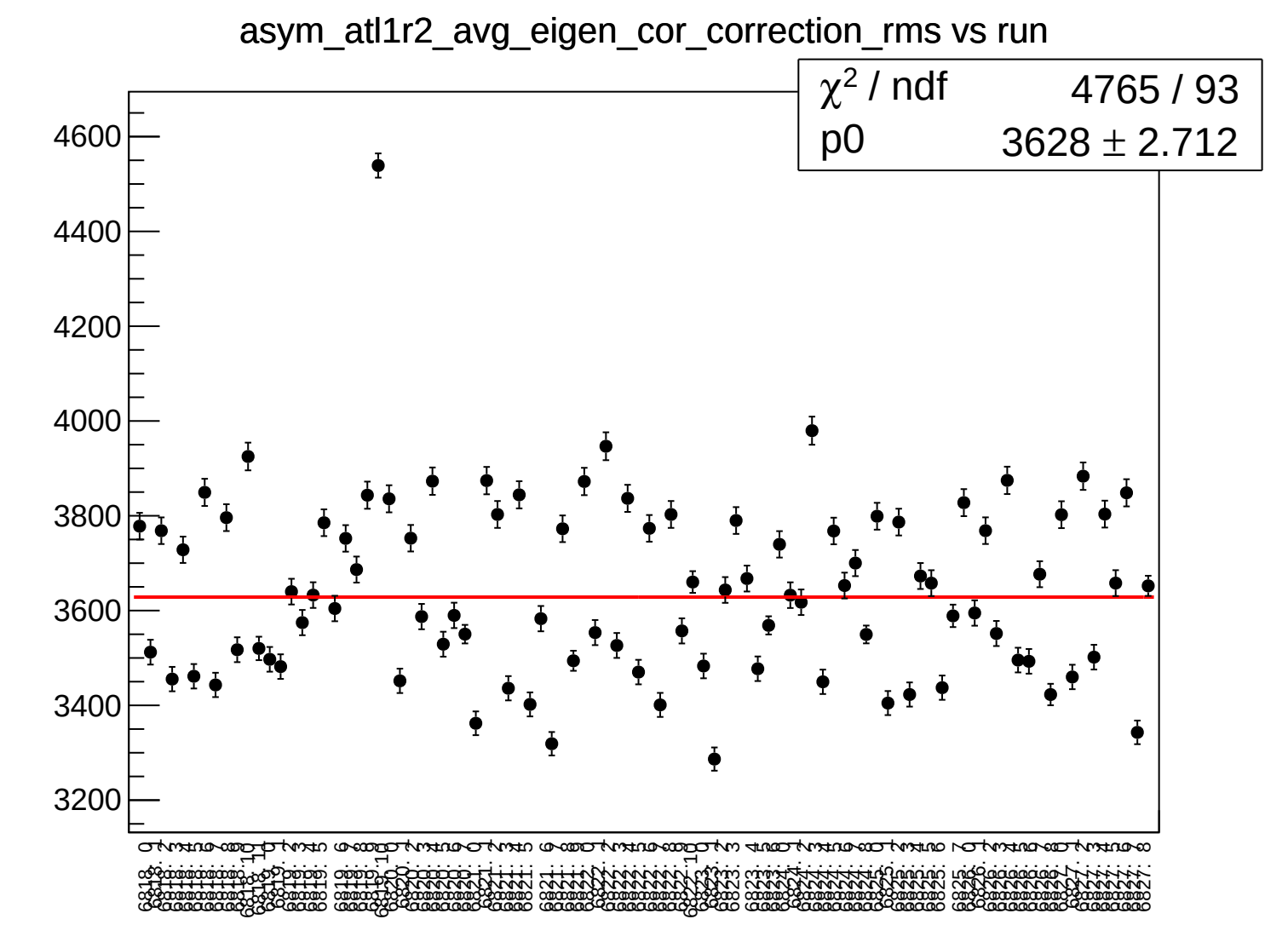

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 91.28 / 93
p0 −1566 ± 1774
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −799.5
Std Dev 0
2
1
0
−1
−2

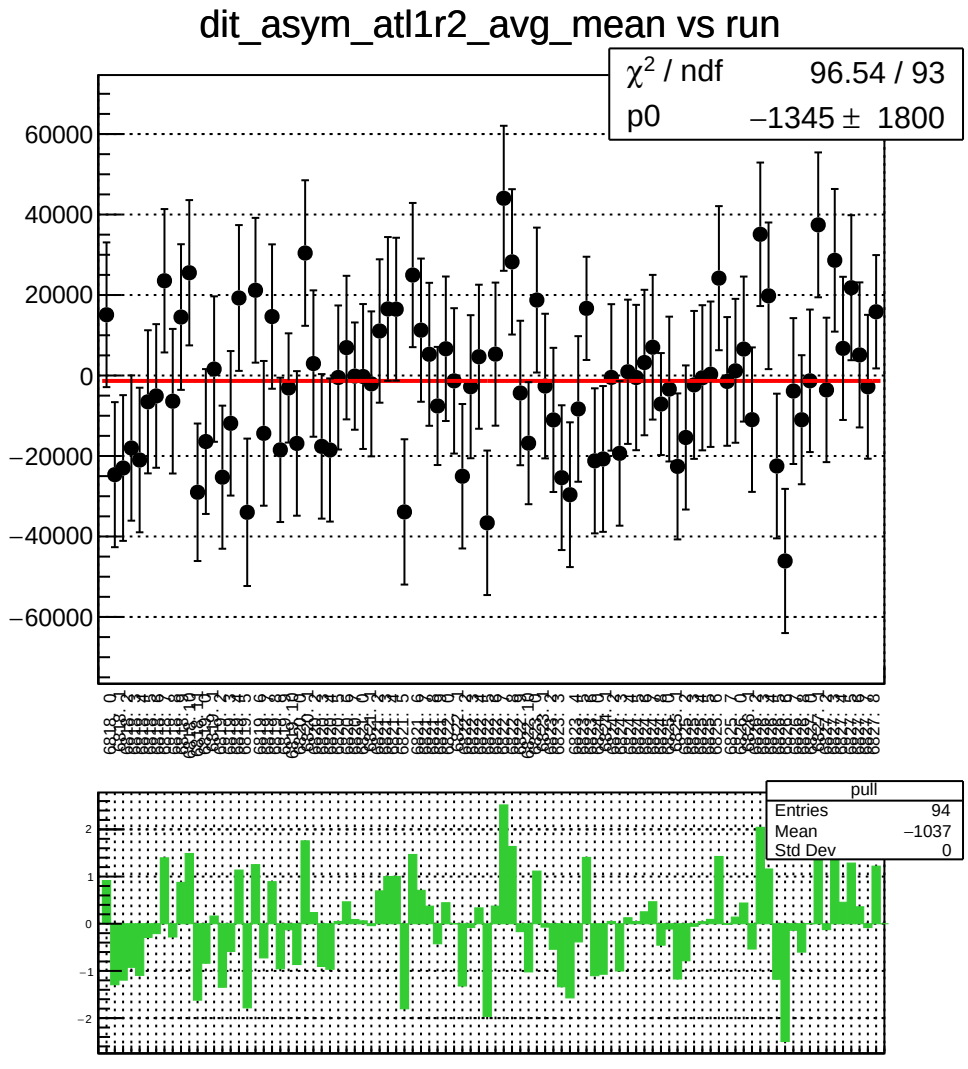

pull1D
Entries 94
Mean −0.004322
Std Dev 0.9854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

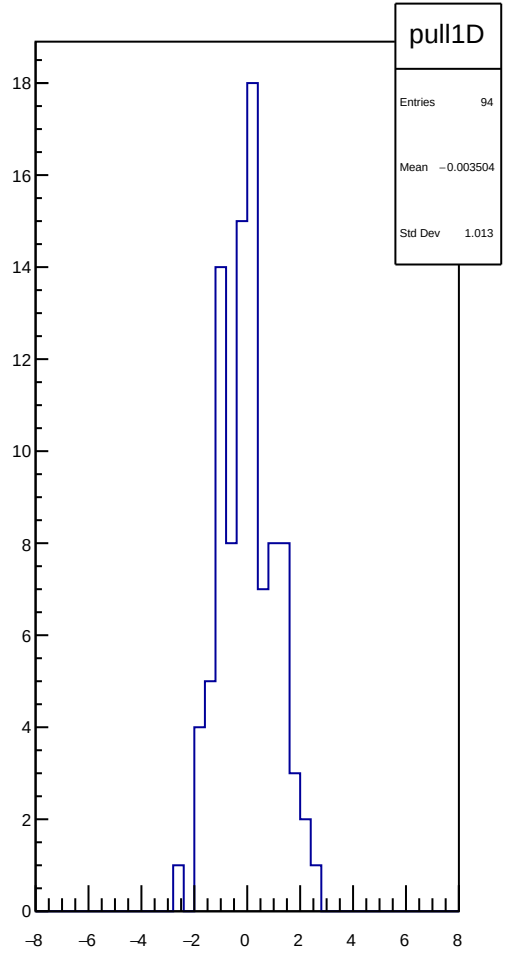

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 84.56 / 93
p0 1681 ± 1.255
1740
1720
1700
1680
1660
1640

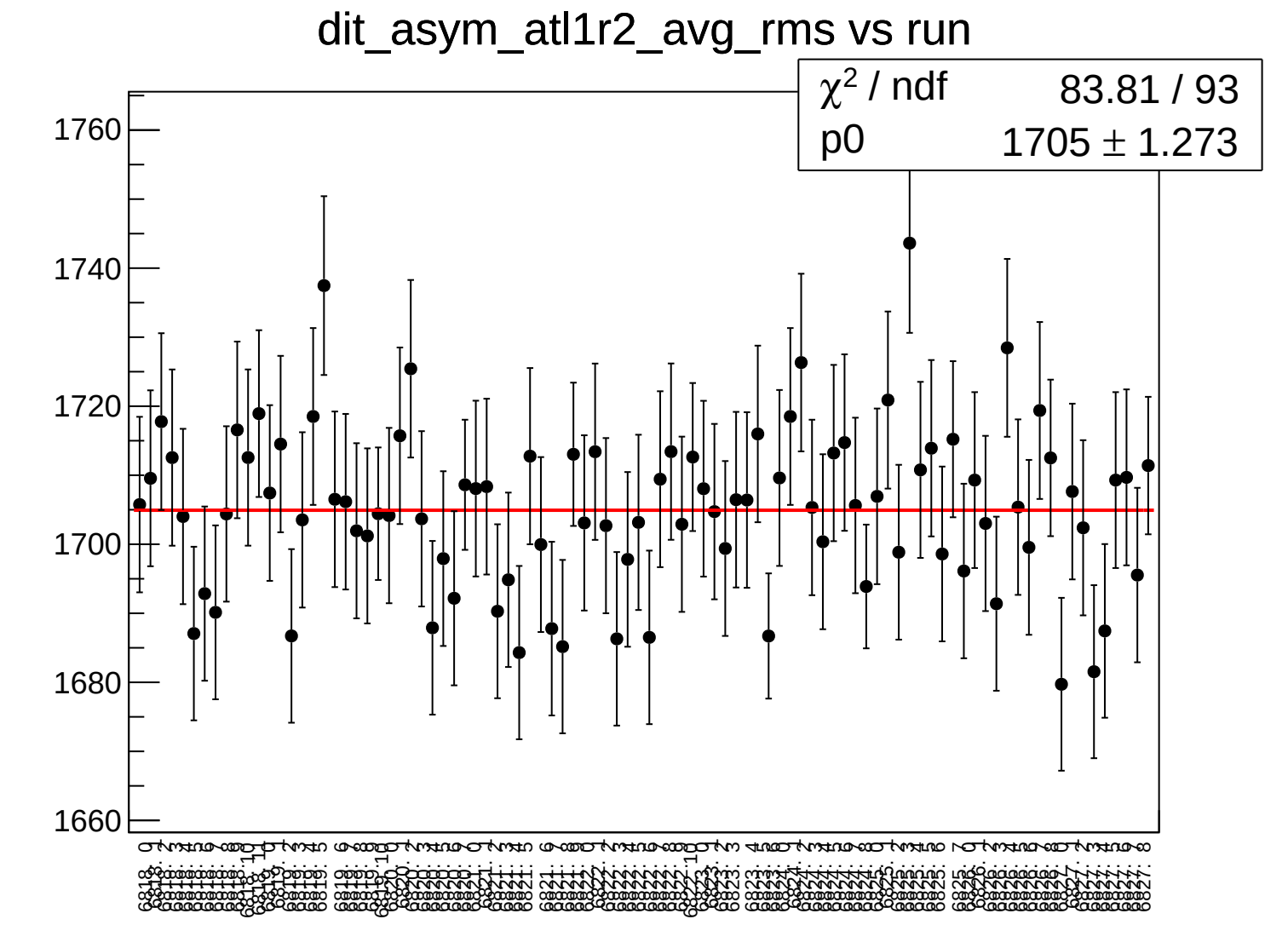

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.76 / 93
p0 2052 ± 3835
100
50
0
−50
−100
−150
pull
Entries 94
Mean 395.6
Std Dev 0
2
1
0
−1
−2
−3

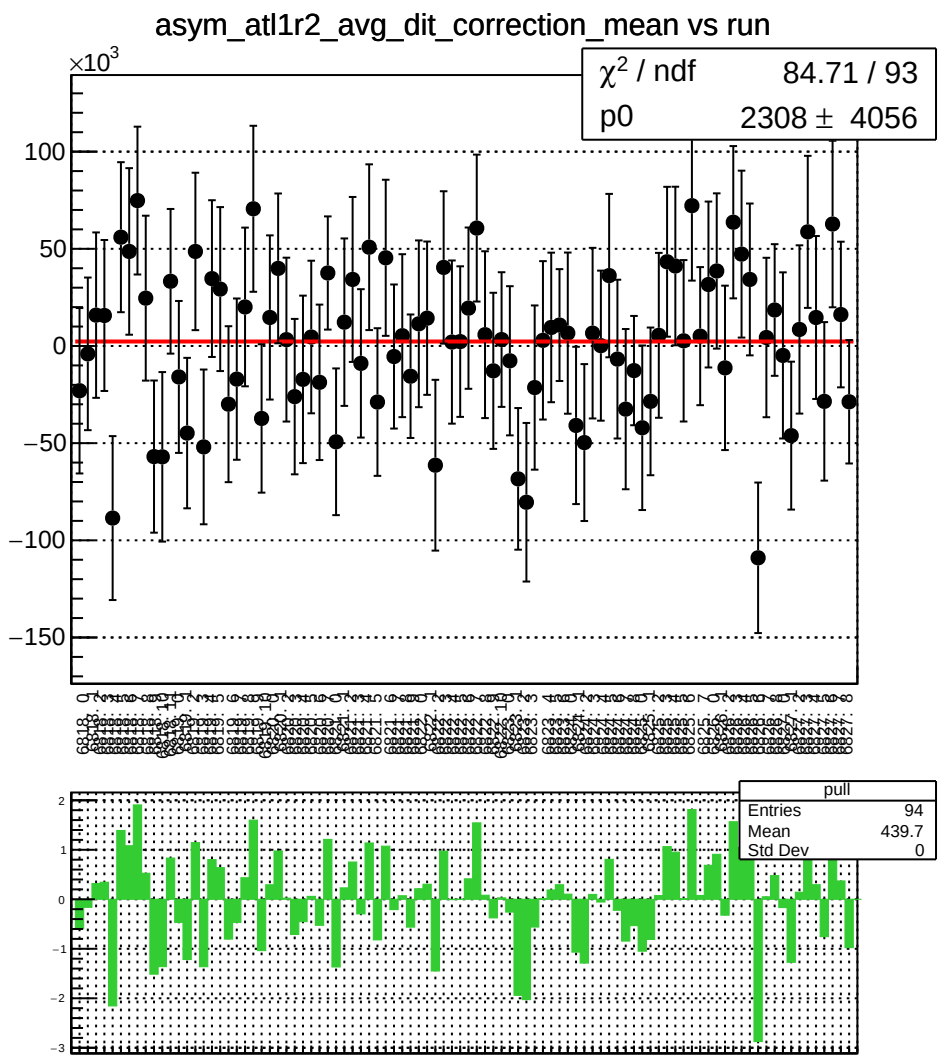

pull1D
Entries 94
Mean 0.002118
Std Dev 0.9496
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

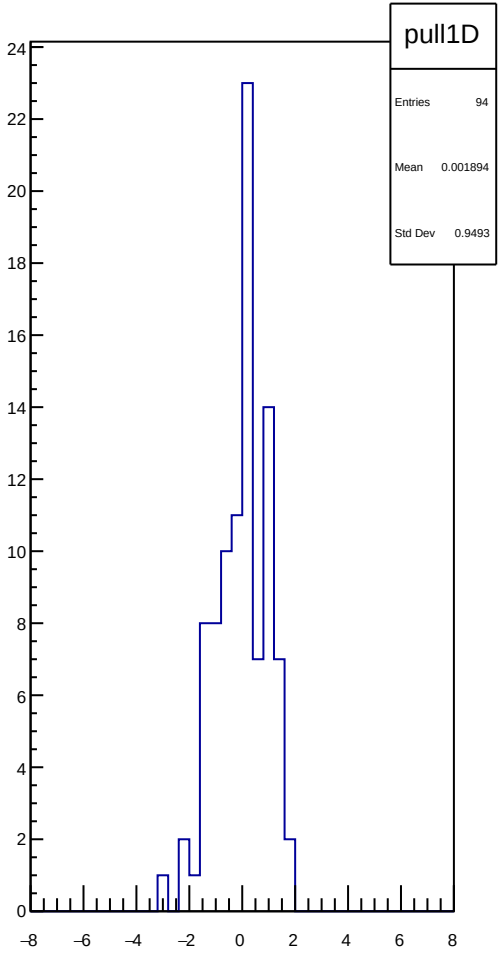

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4765 / 93
p0 3628 ± 2.712
4600
4400
4200
4000
3800
3600
3400
3200

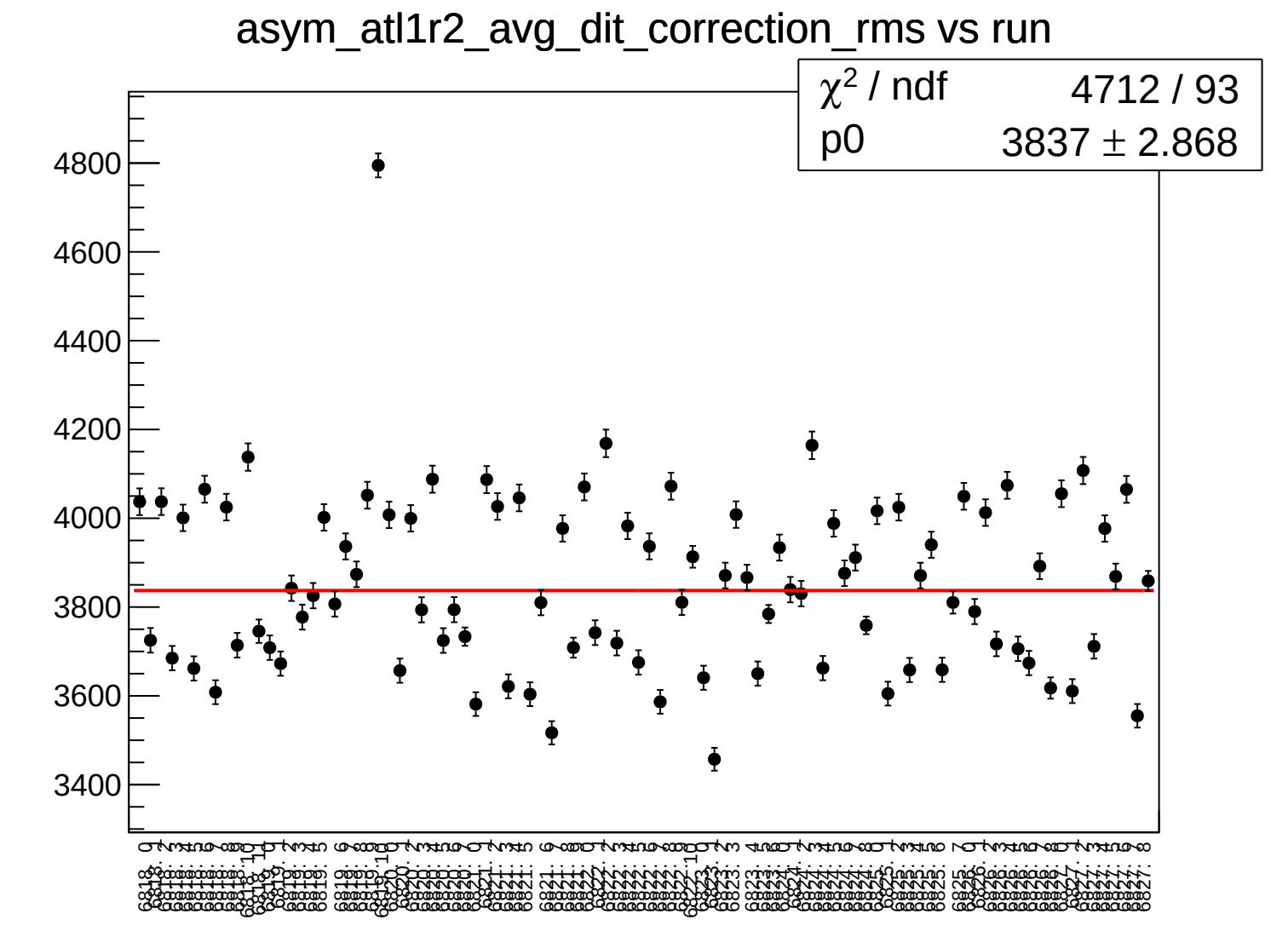

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 96.54 / 93
p0 −1345 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1037
Std Dev 0
2
1
0
−1
−2

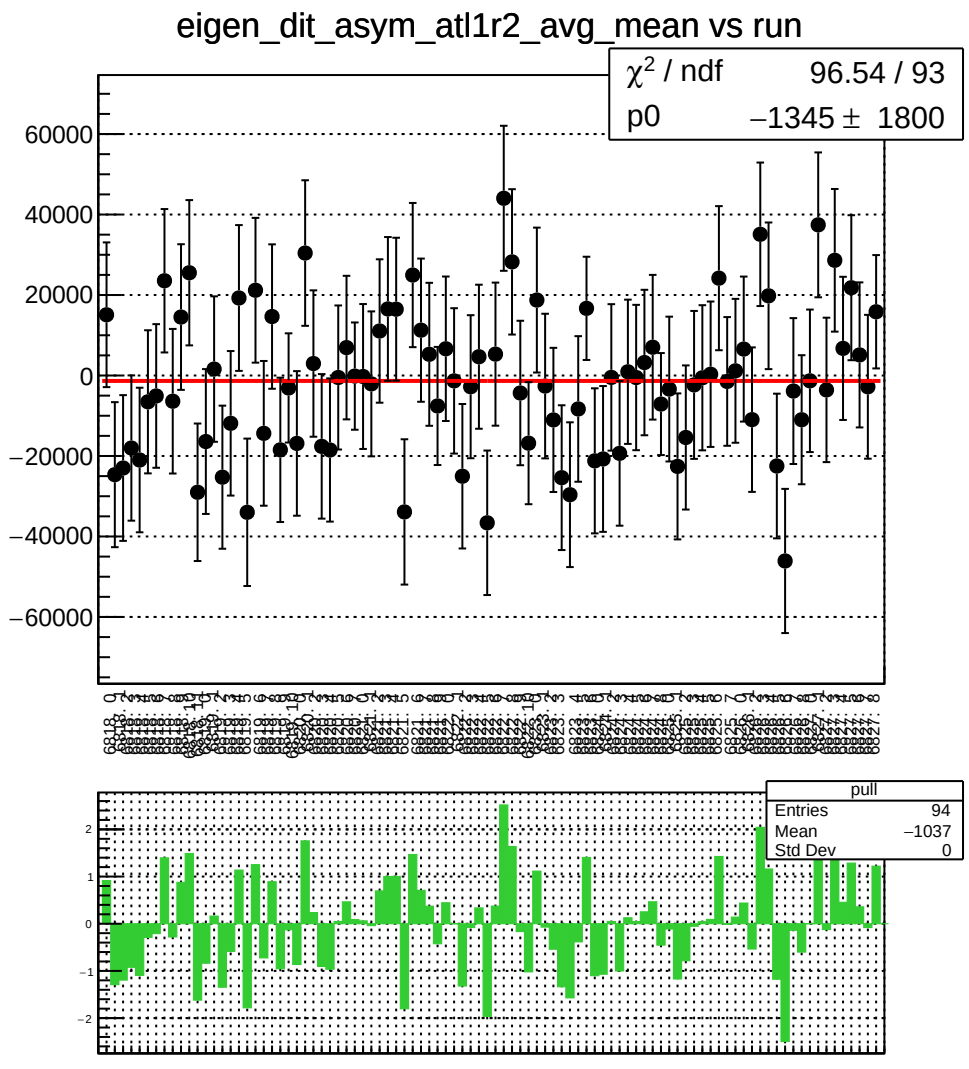

pull1D
Entries 94
Mean −0.003504
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

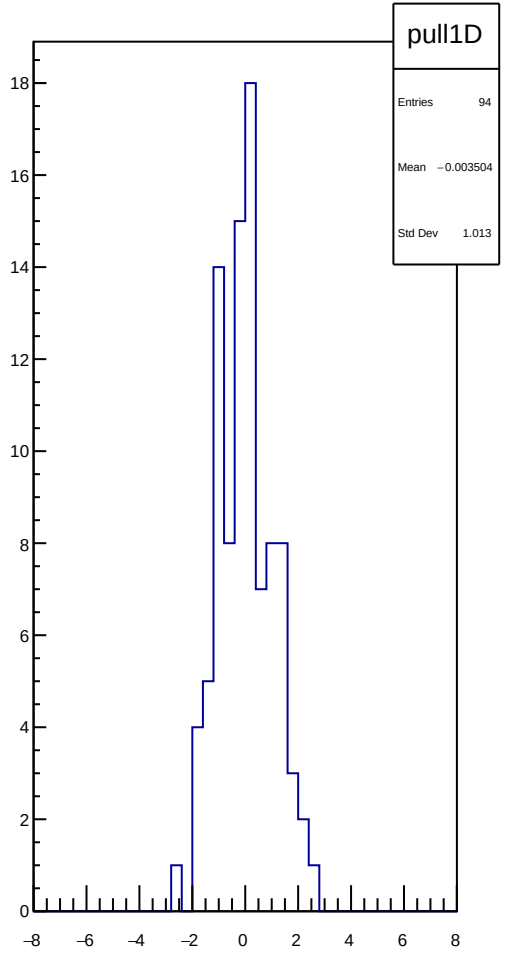

dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 83.81 / 93
p0 1705 ± 1.273
1760
1740
1720
1700
1680
1660

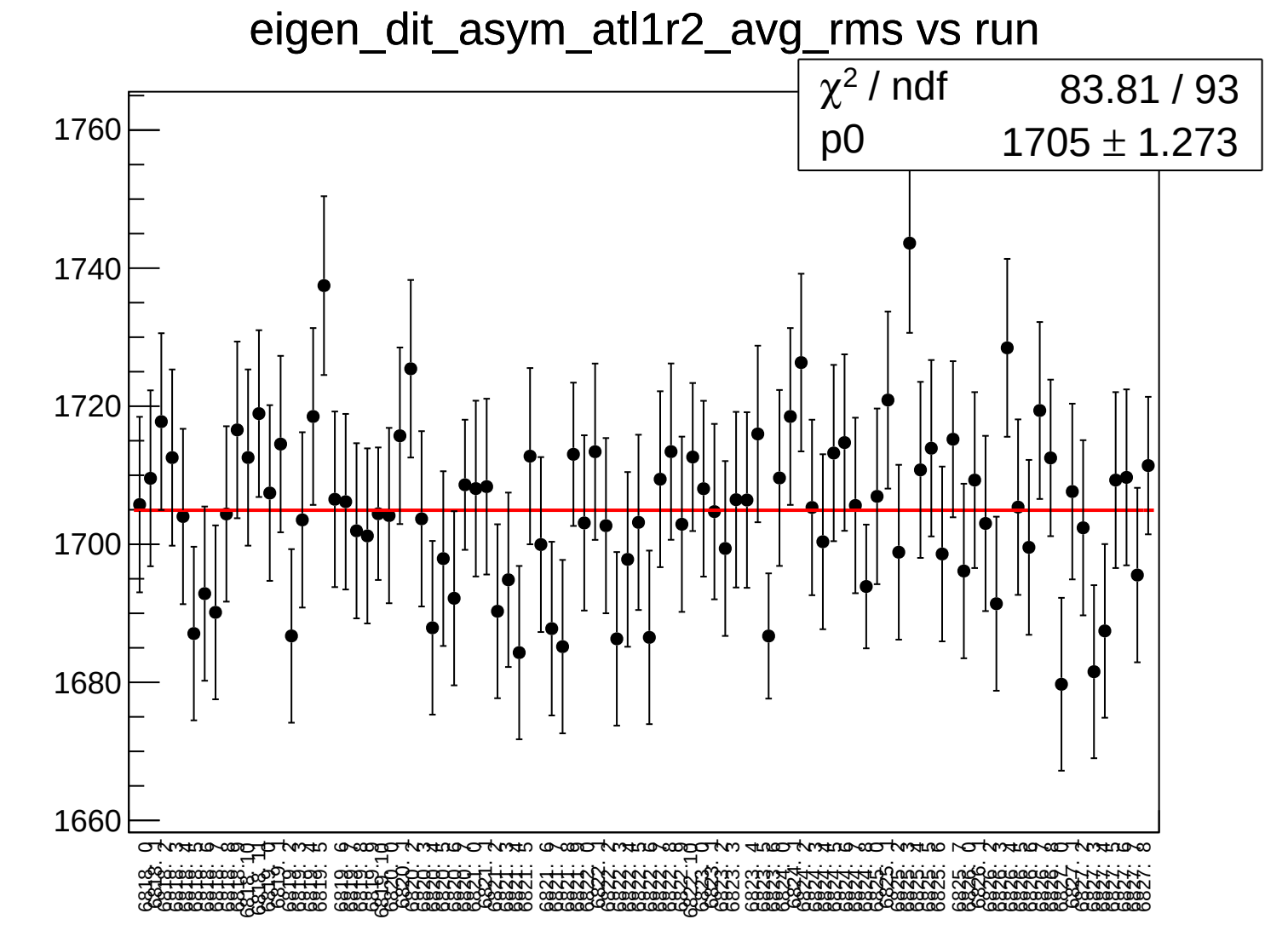

asym_atl1r2_avg_dit_correction_mean vs run
χ² / ndf 84.71 / 93
p0 2308 ± 4056
×10³
pull
Entries 94
Mean 439.7
Std Dev 0

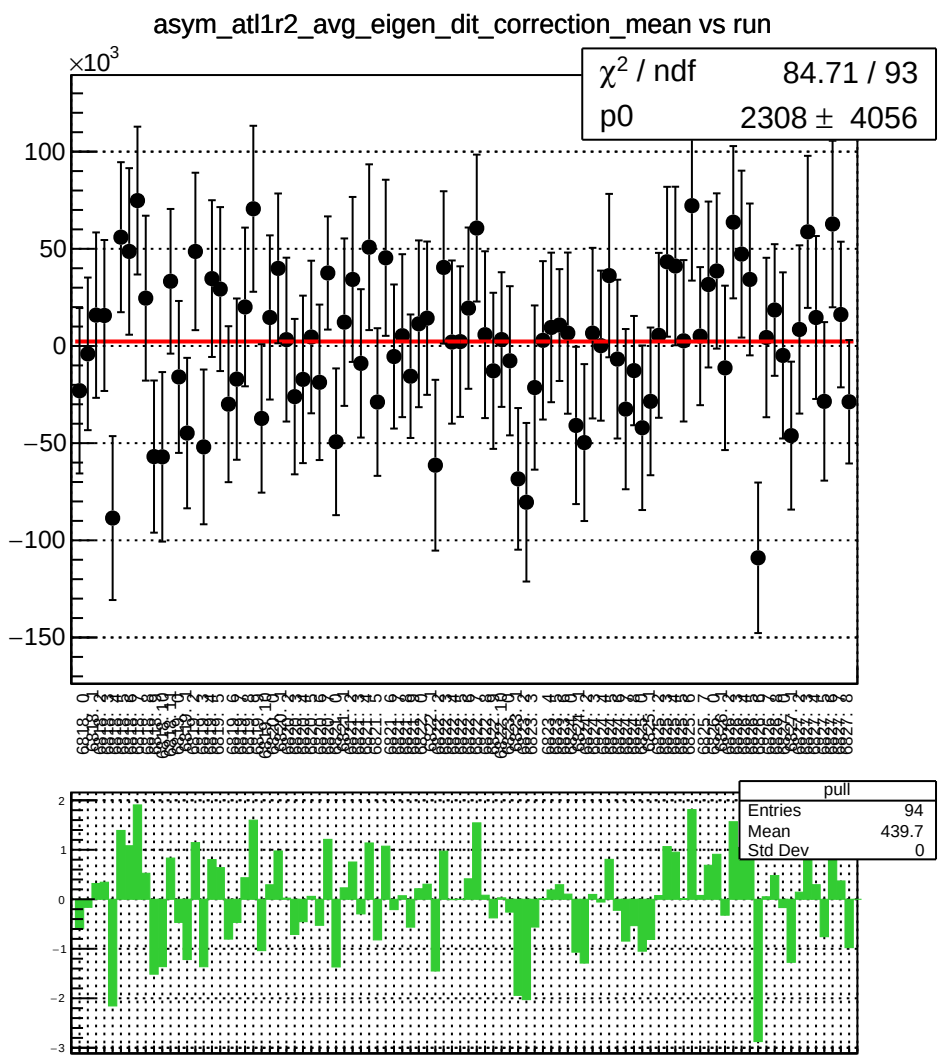

pull1D
Entries 94
Mean 0.001894
Std Dev 0.9493

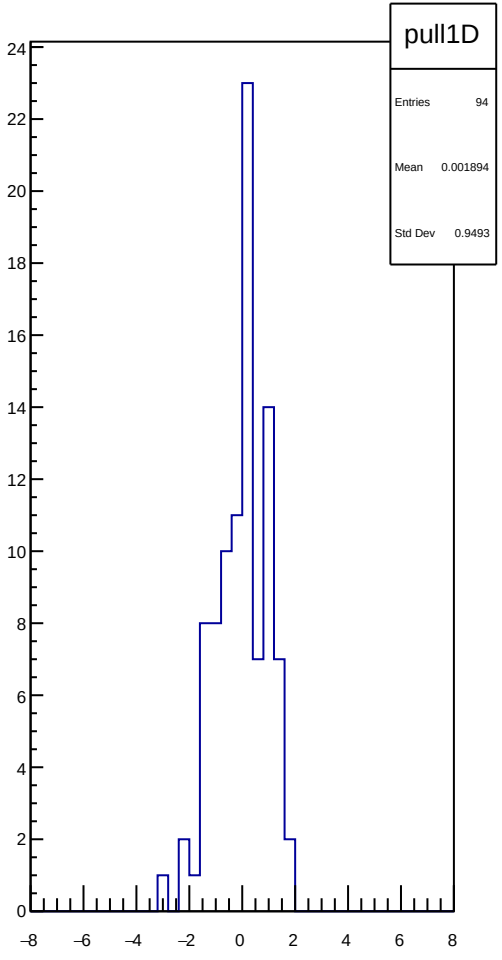

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 4712 / 93
p0 3837 ± 2.868
4800
4600
4400
4200
4000
3800
3600
3400

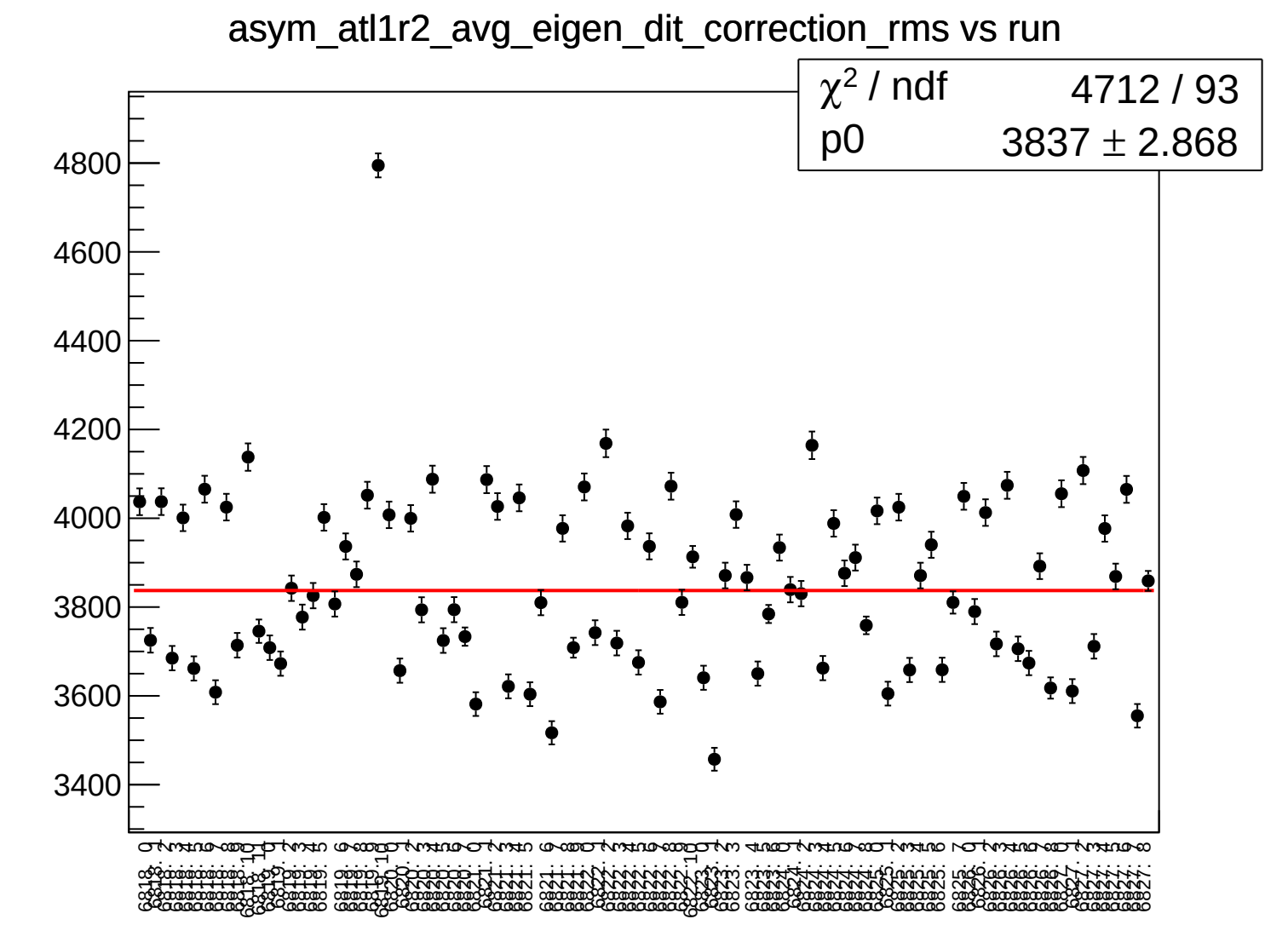

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 96.54 / 93
p0 −1345 ± 1800
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1037
Std Dev 0
2
1
0
−1
−2

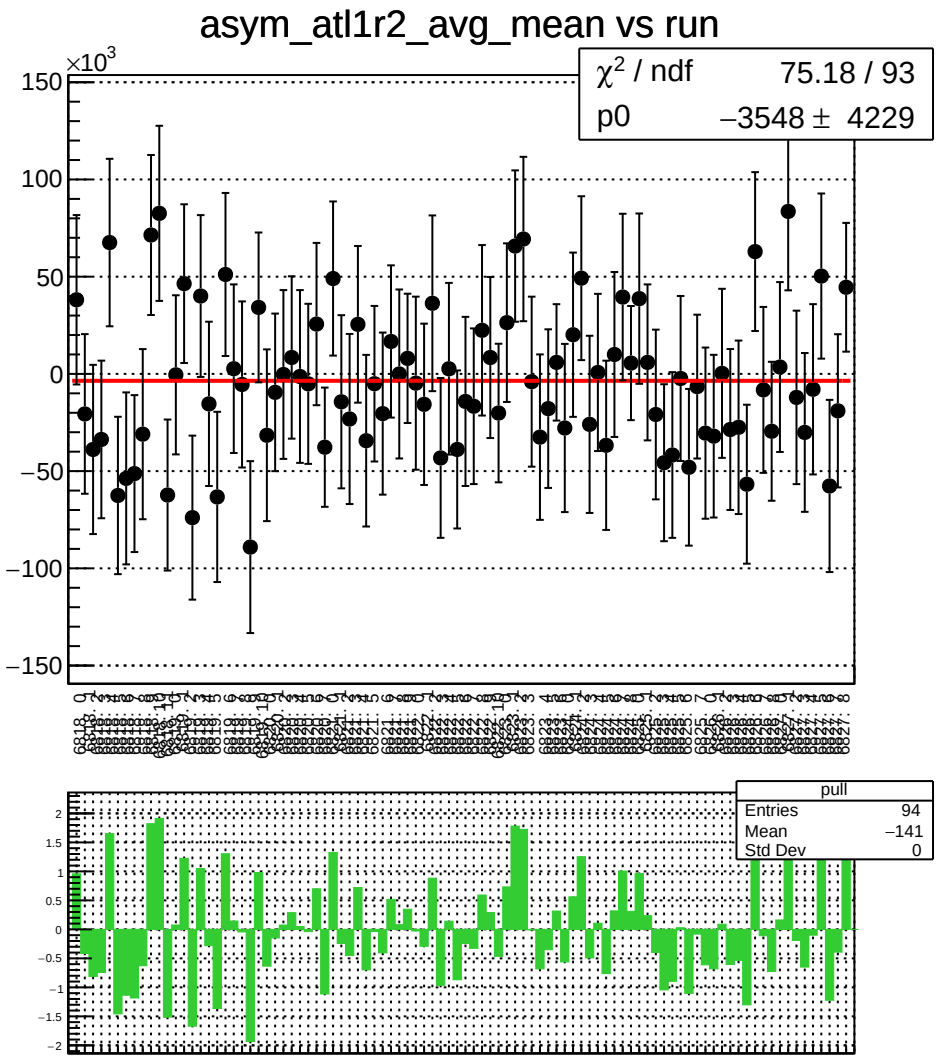

pull1D
Entries 94
Mean −0.003504
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

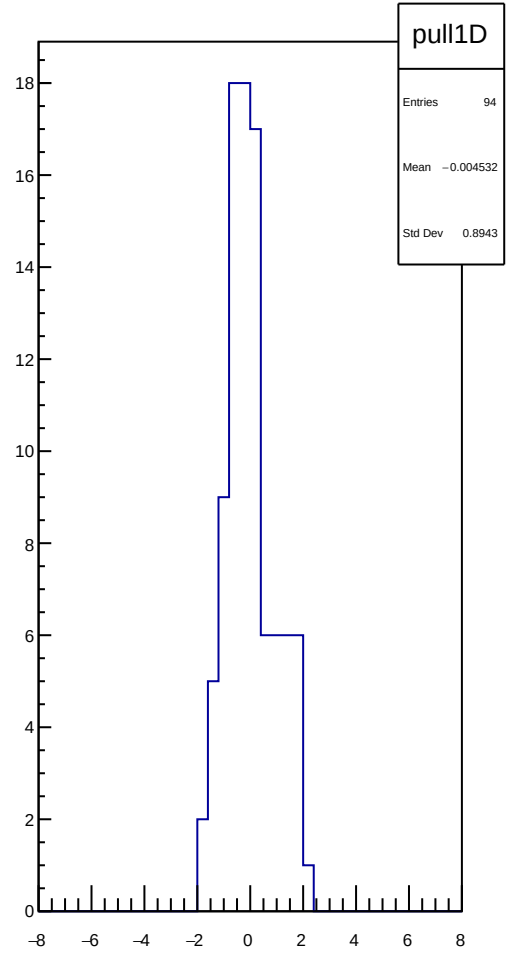

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 83.81 / 93
p0 1705 ± 1.273
1760
1740
1720
1700
1680
1660

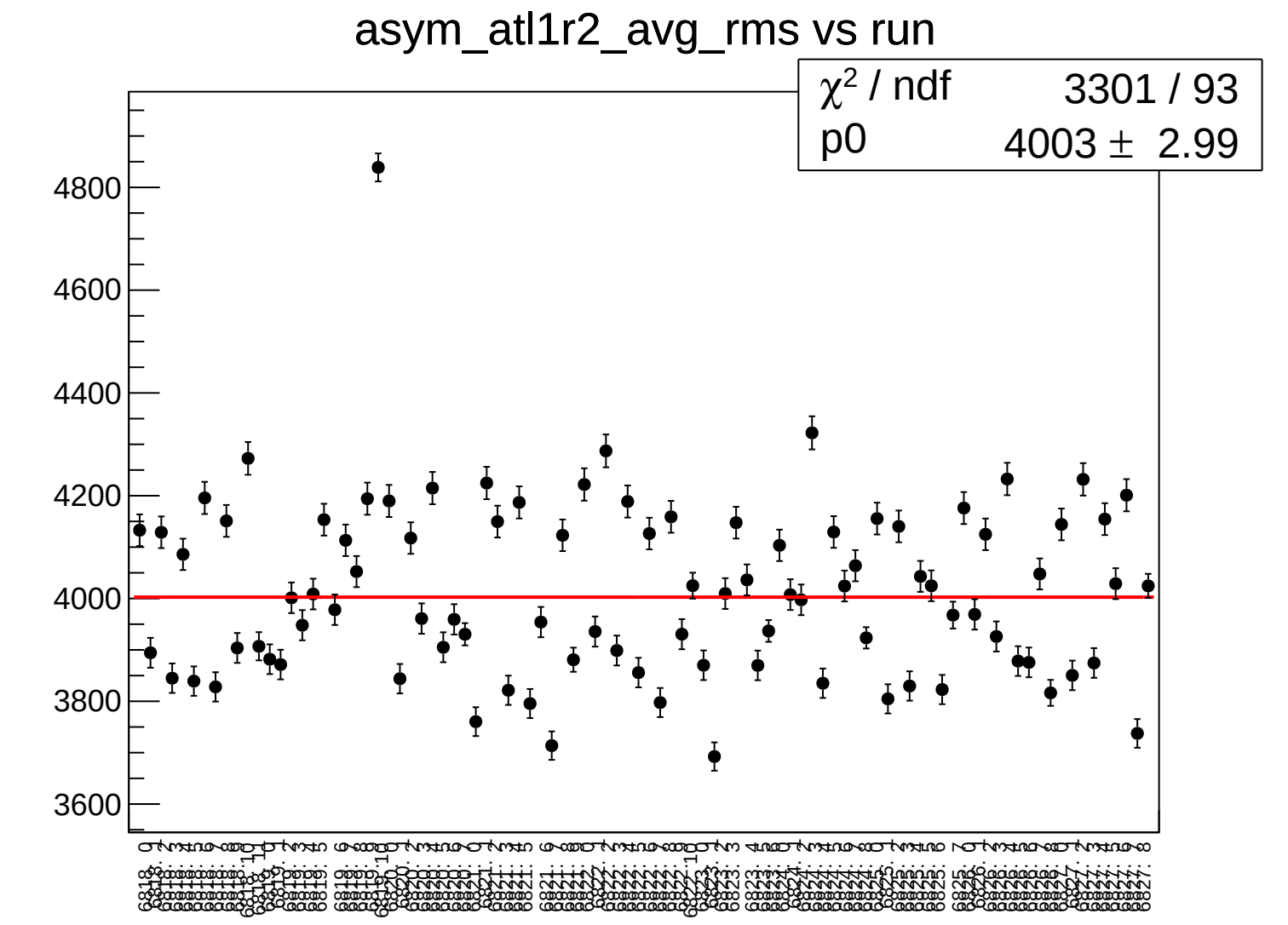

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.71 / 93
p0 2308 ± 4056
100
50
0
−50
−100
−150
pull
Entries 94
Mean 439.7
Std Dev 0
2
1
0
−1
−2
−3

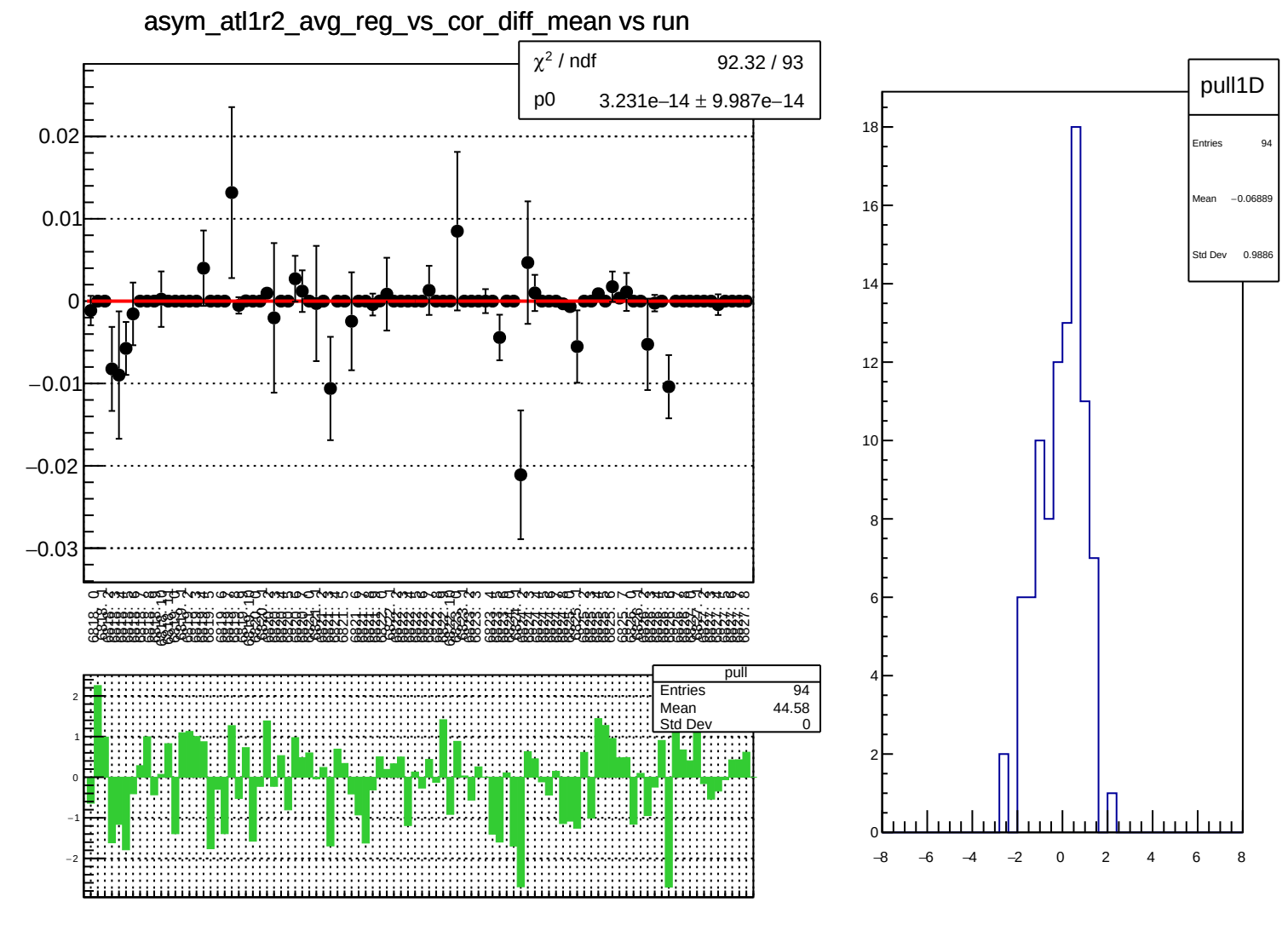

pull1D
Entries 94
Mean 0.001894
Std Dev 0.9493
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

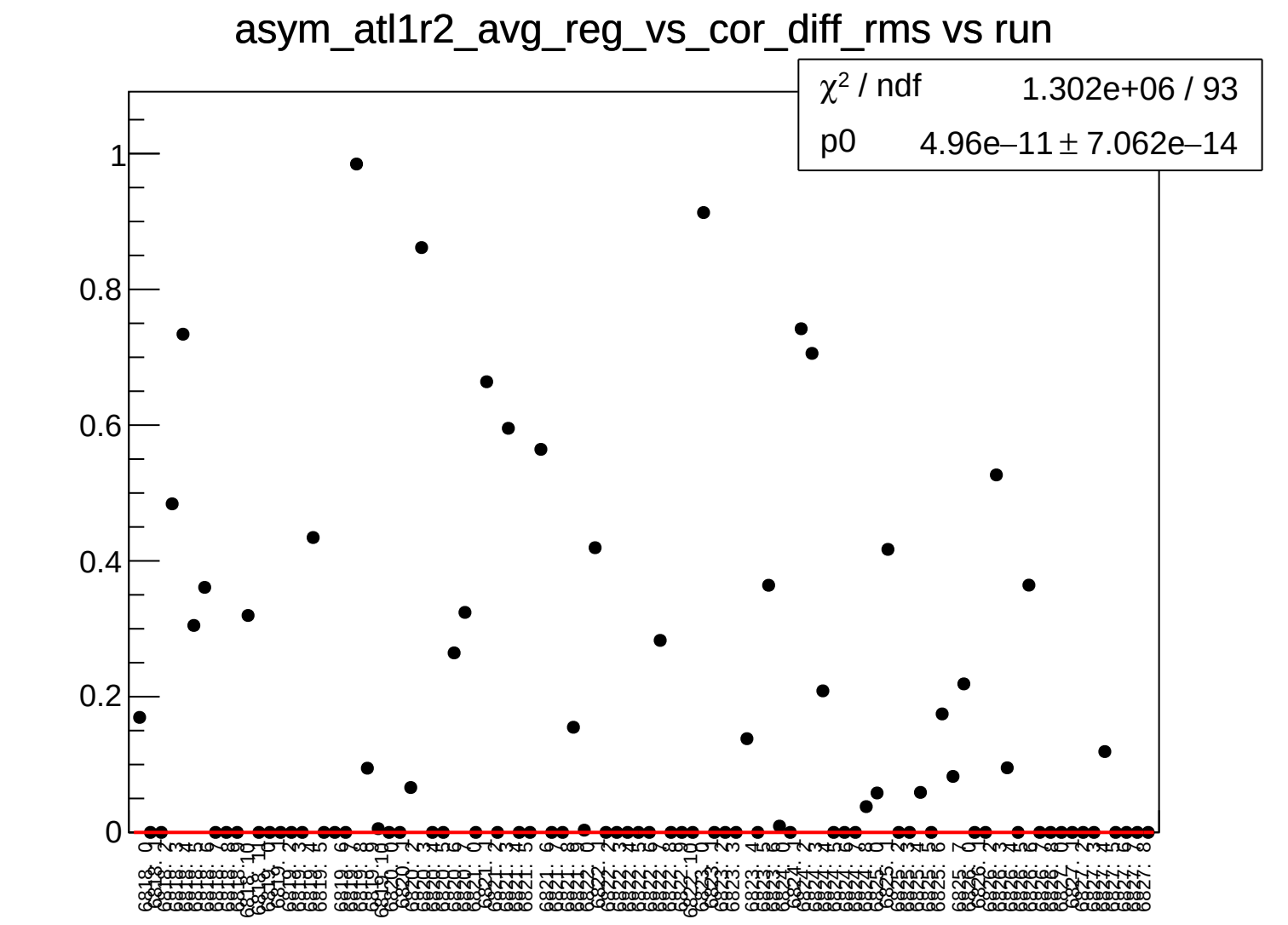

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4712 / 93
p0 3837 ± 2.868
4800
4600
4400
4200
4000
3800
3600
3400

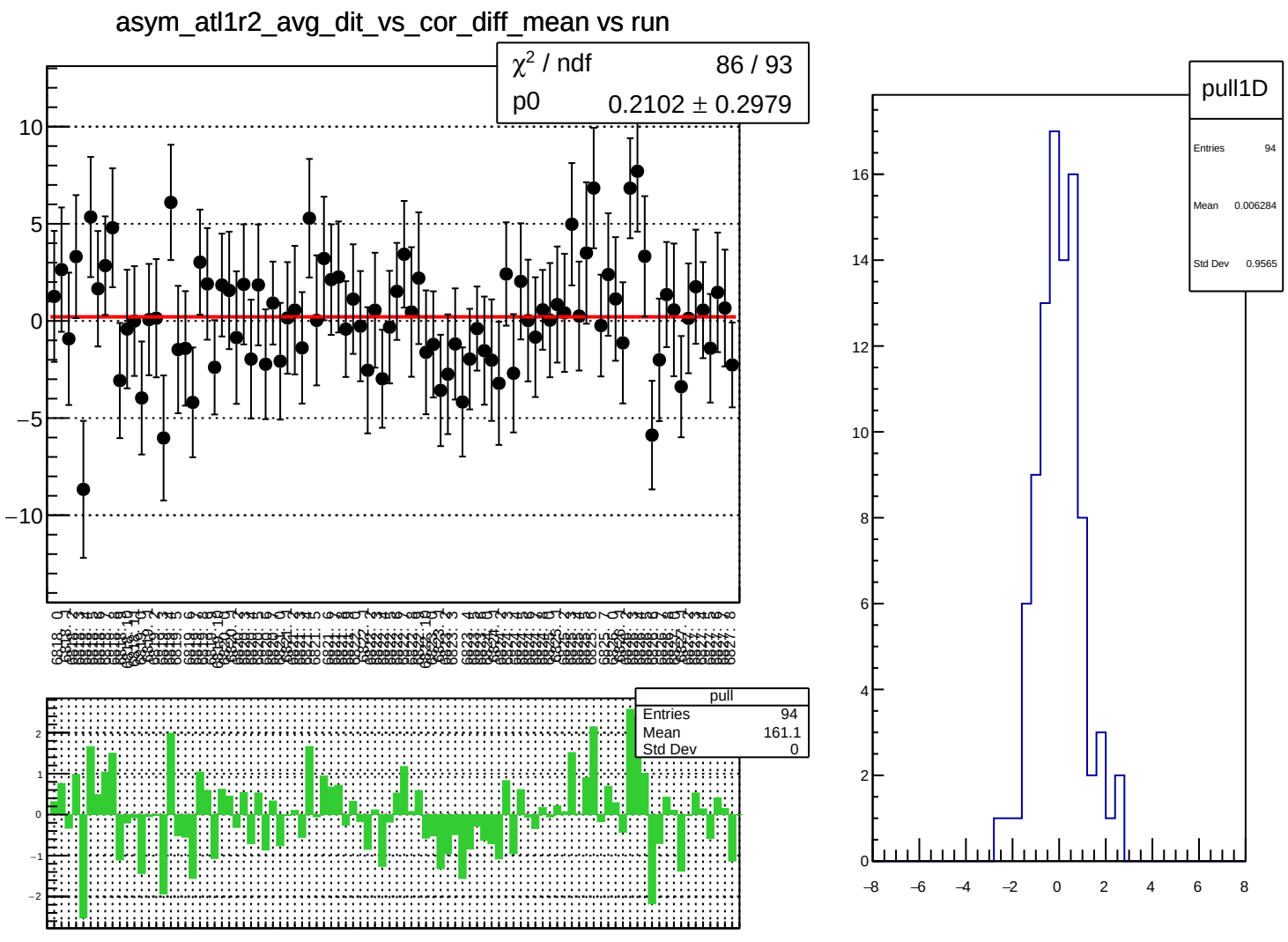

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 75.18 / 93
p0 −3548 ± 4229
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −141
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

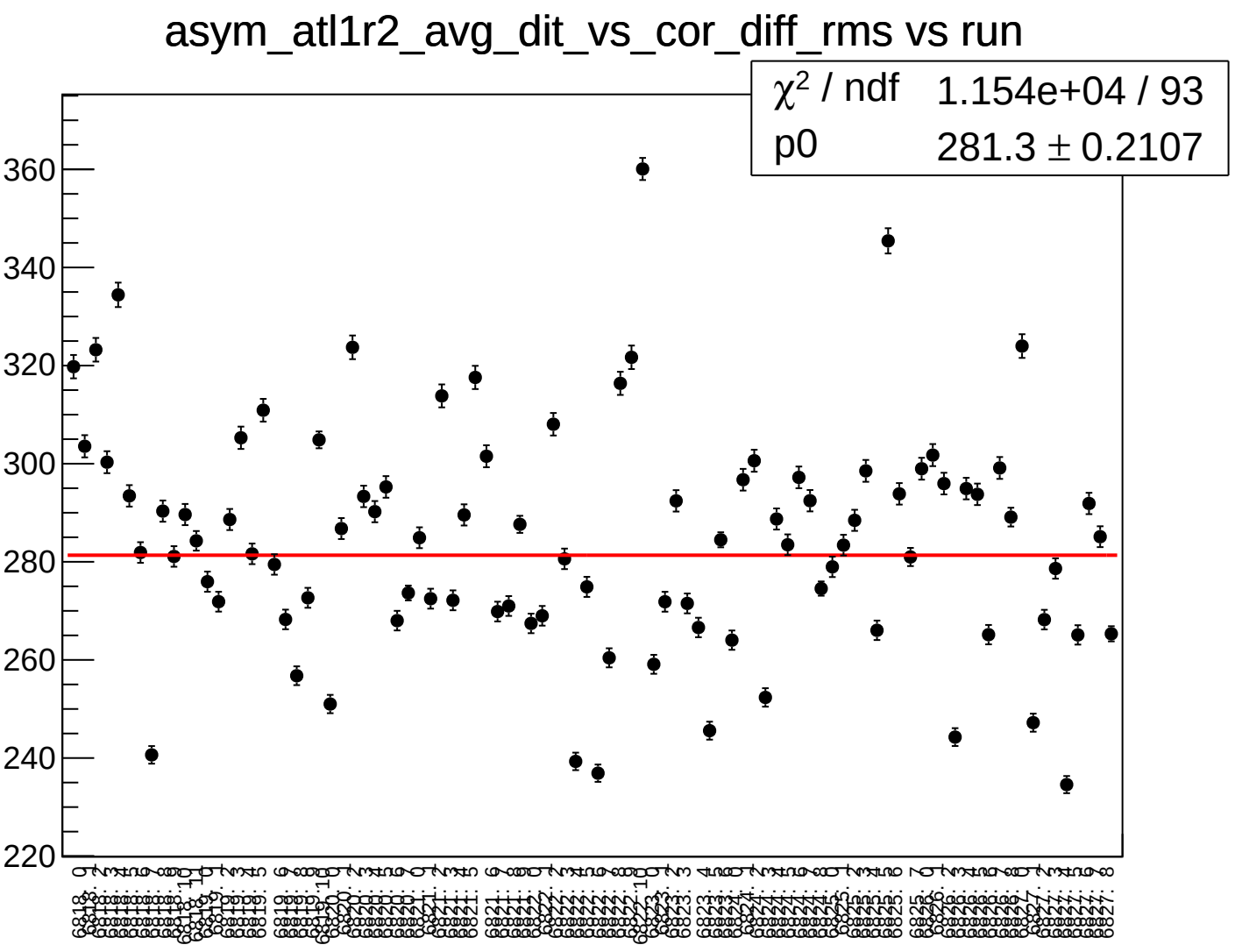

pull1D
Entries 94
Mean −0.004532
Std Dev 0.8943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

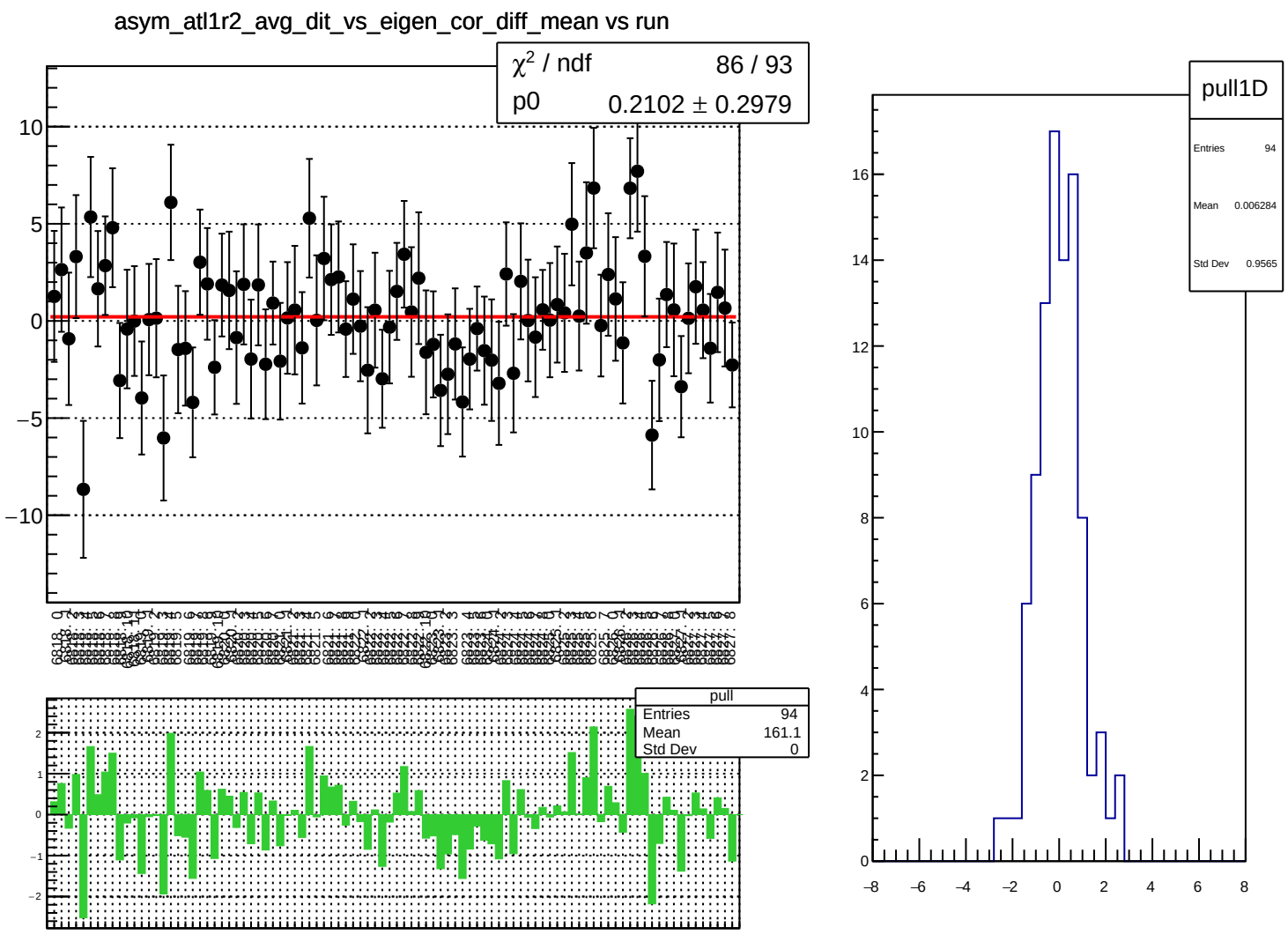

asym_atl1r2_avg_rms vs run
χ² / ndf 3301 / 93
p0 4003 ± 2.99
4800
4600
4400
4200
4000
3800
3600

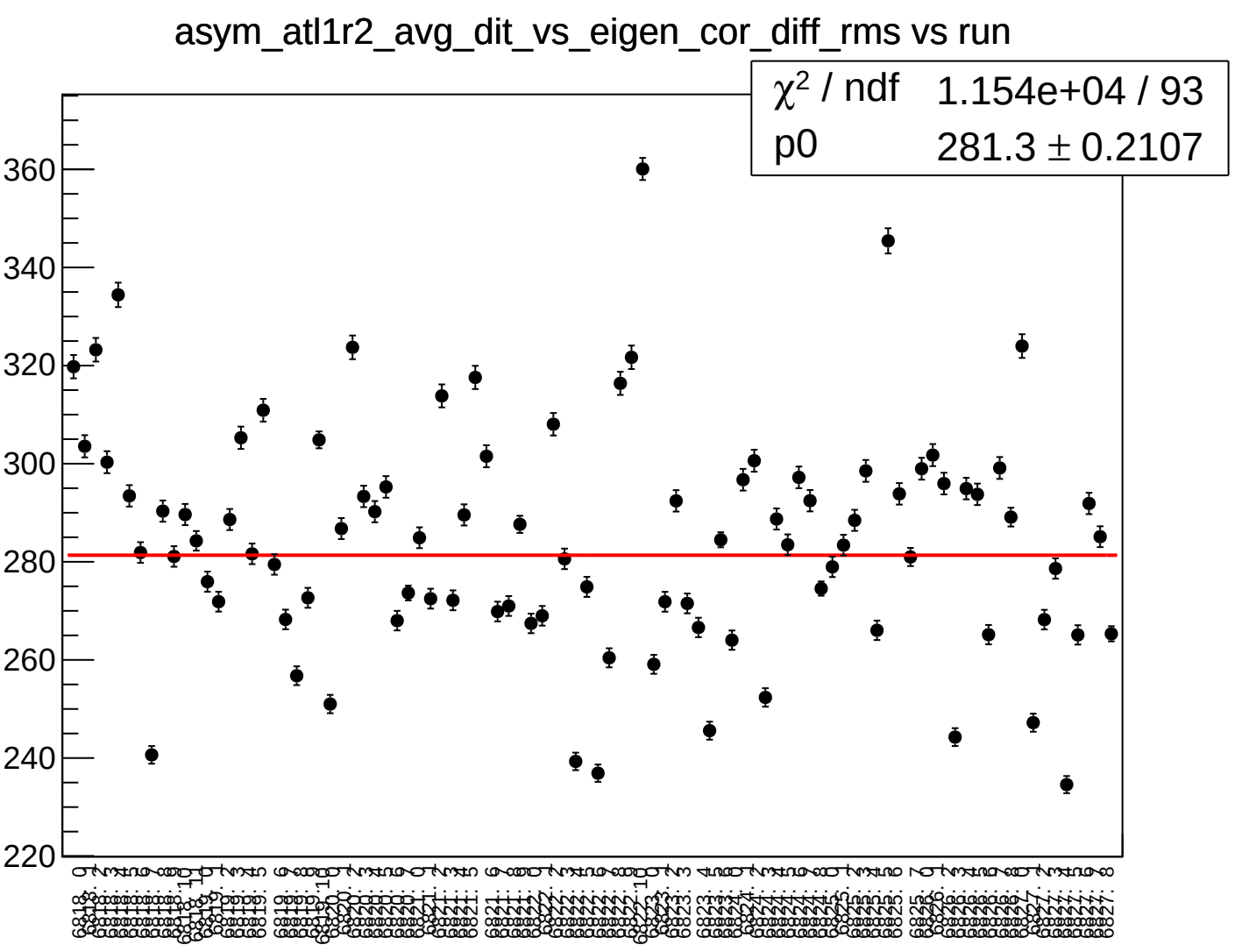

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.32 / 93
p0 3.231e−14 ± 9.987e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 44.58
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.06889
Std Dev 0.9886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

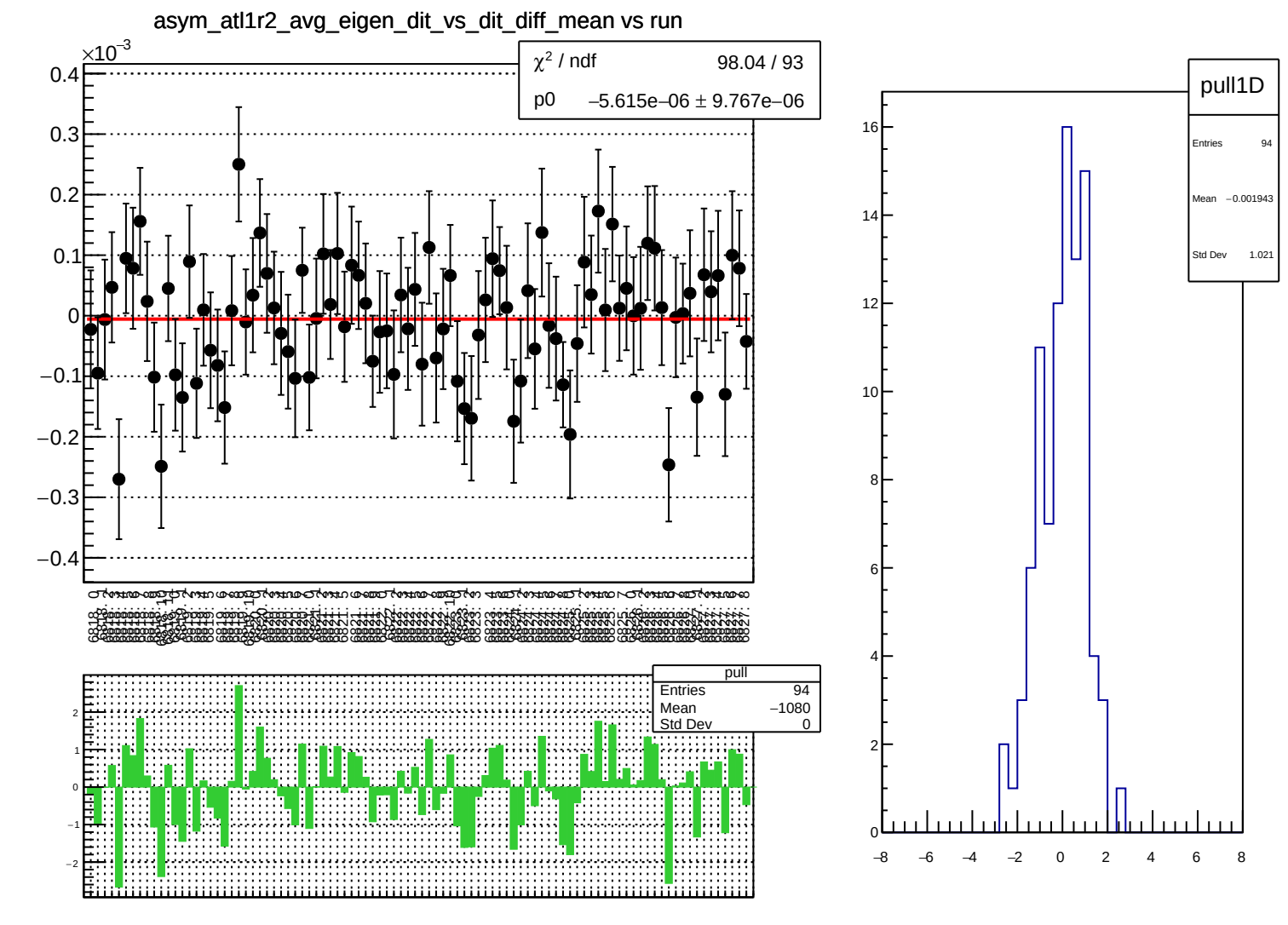

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.302e+06 / 93
p0 4.96e−11 ± 7.062e−14
1
0.8
0.6
0.4
0.2
0

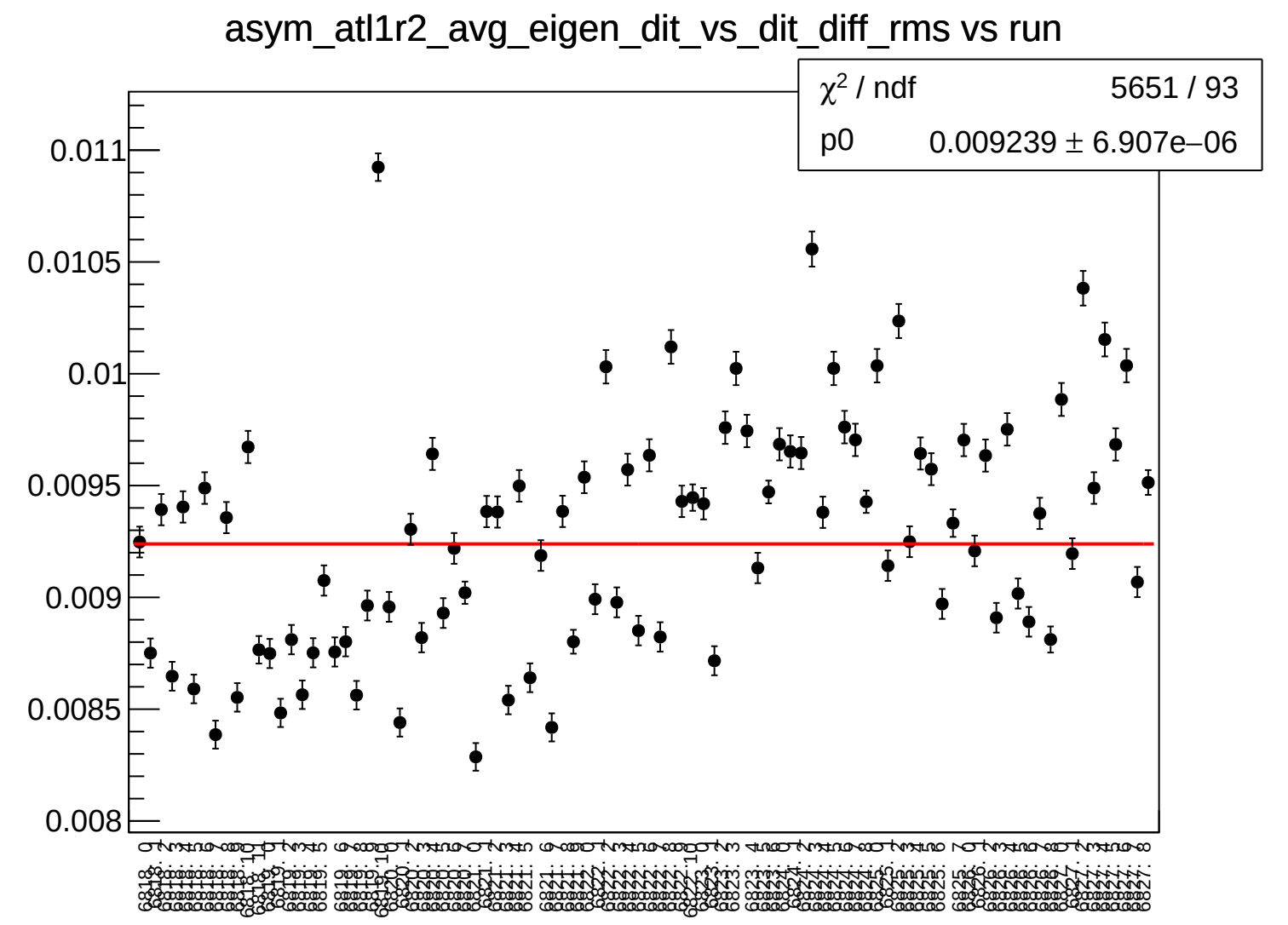

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86 / 93
p0 0.2102 ± 0.2979
pull
Entries 94
Mean 161.1
Std Dev 0
pull1D
Entries 94
Mean 0.006284
Std Dev 0.9565

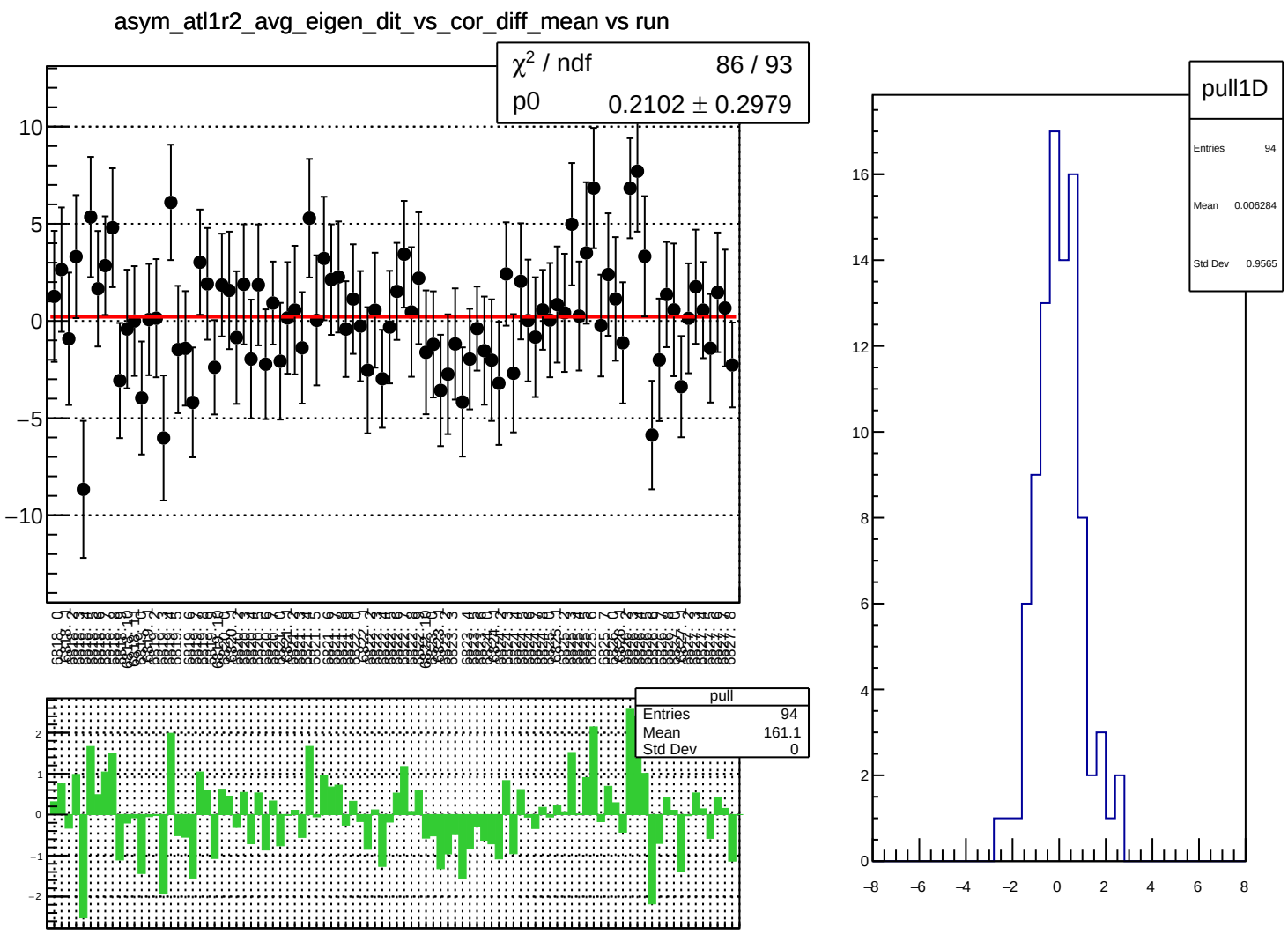

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.154e+04 / 93
p0 281.3 ± 0.2107
360
340
320
300
280
260
240
220

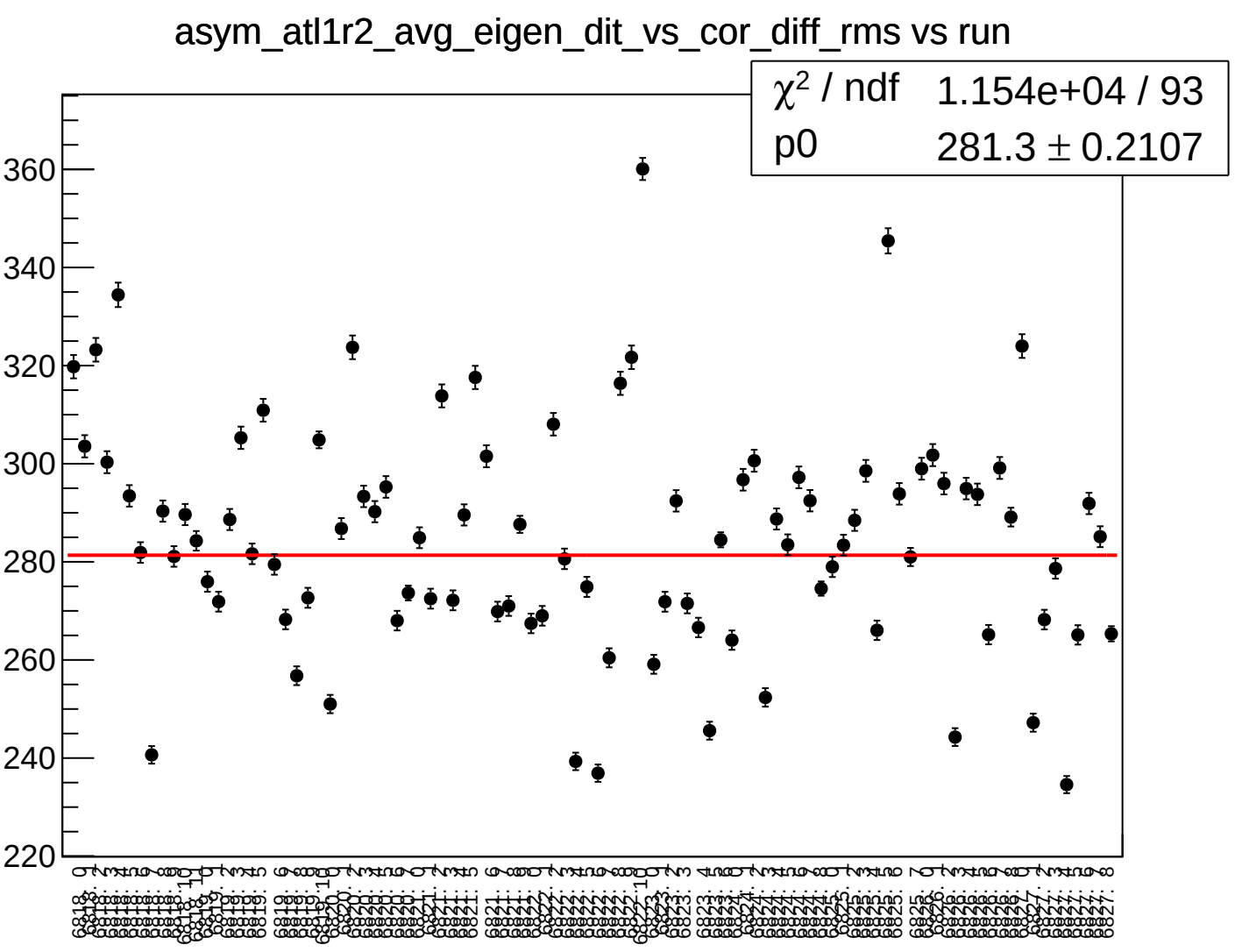

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86 / 93
p0 0.2102 ± 0.2979
pull
Entries 94
Mean 161.1
Std Dev 0
pull1D
Entries 94
Mean 0.006284
Std Dev 0.9565

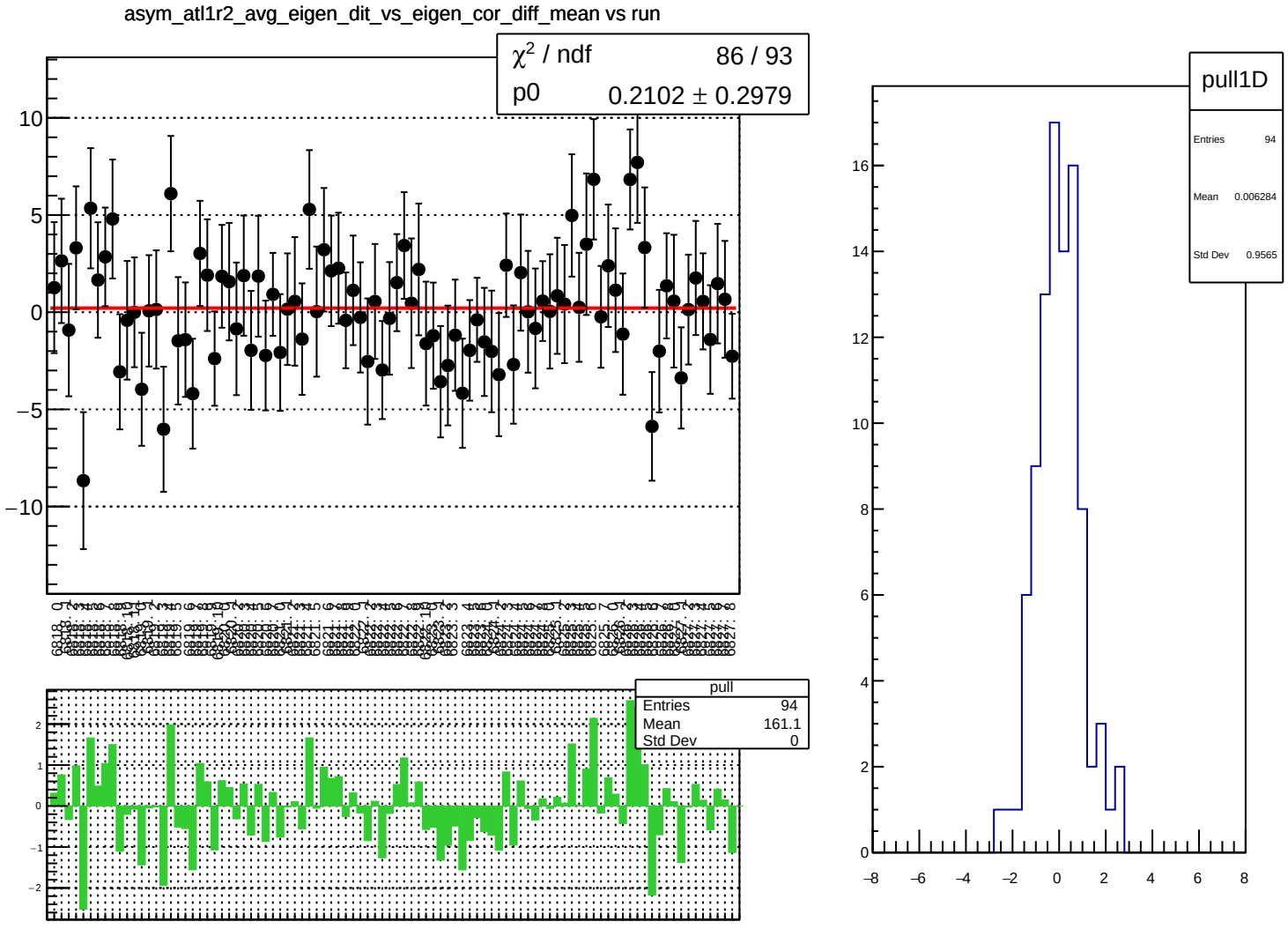

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.154e+04 / 93
p0 281.3 ± 0.2107
360
340
320
300
280
260
240
220

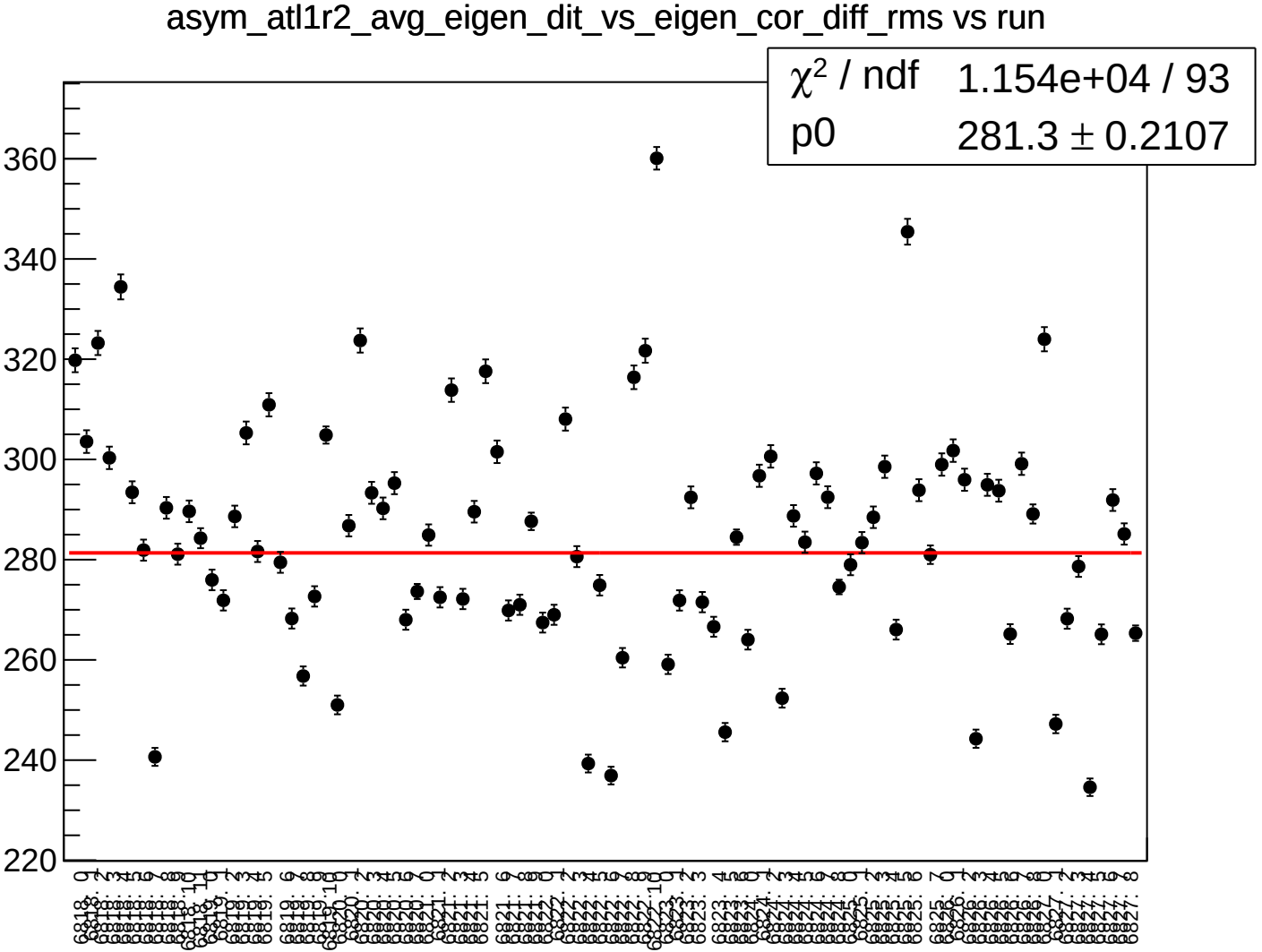

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.04 / 93
p0 −5.615e−06 ± 9.767e−06
pull
Entries 94
Mean −1080
Std Dev 0
pull1D
Entries 94
Mean −0.001943
Std Dev 1.021

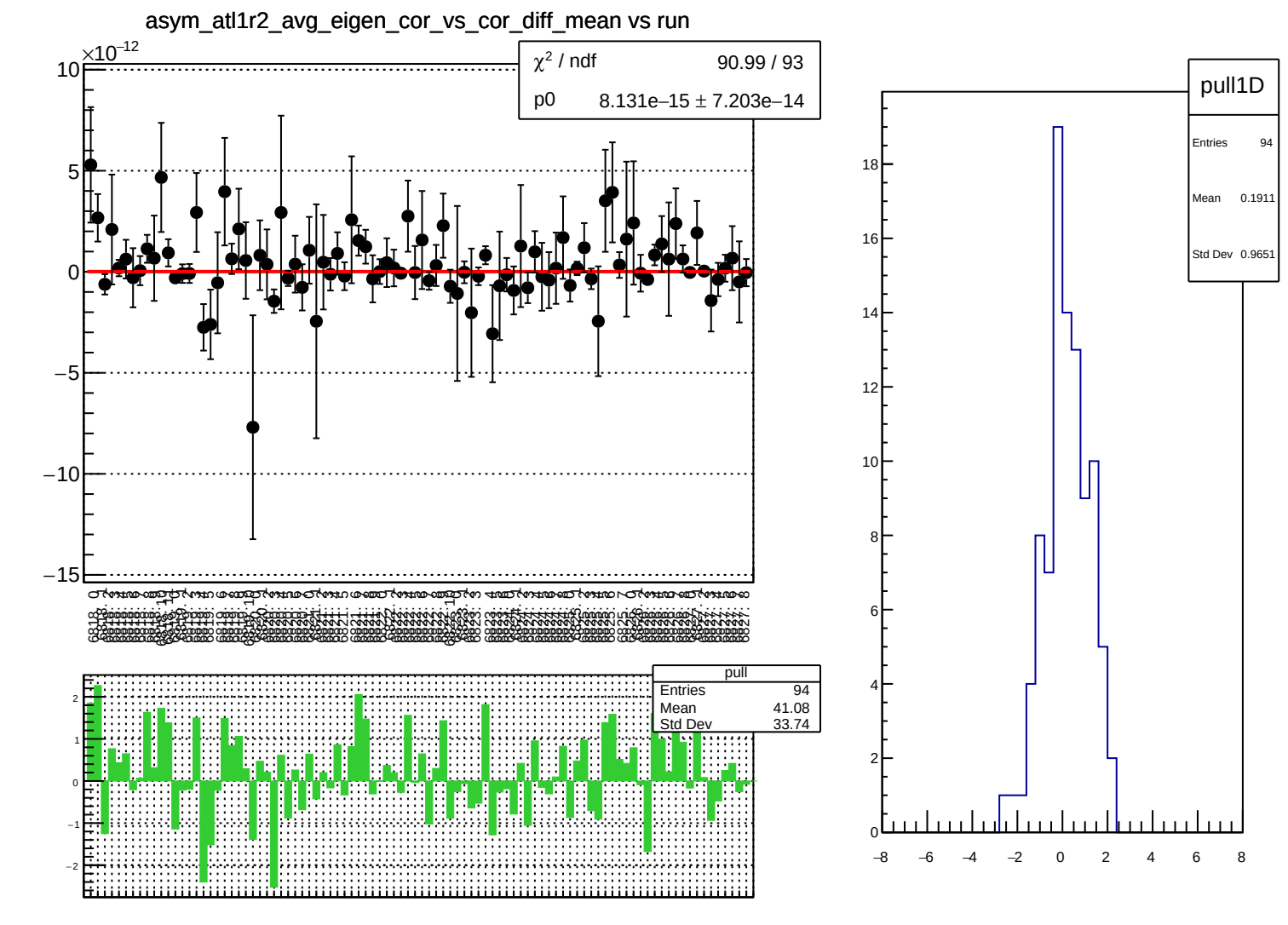

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5651 / 93
p0 0.009239 ± 6.907e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

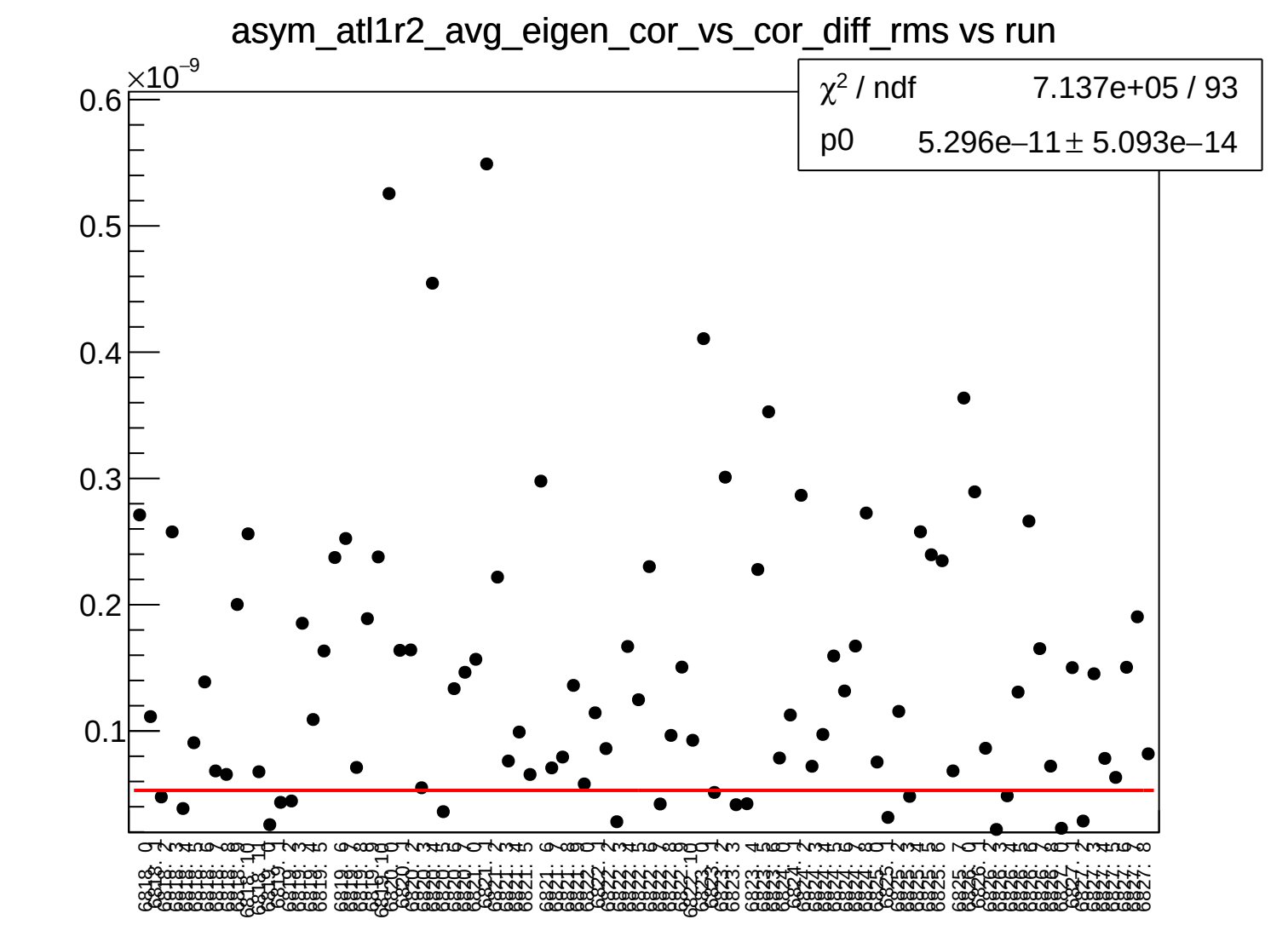

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86 / 93
p0 0.2102 ± 0.2979
pull
Entries 94
Mean 161.1
Std Dev 0
pull1D
Entries 94
Mean 0.006284
Std Dev 0.9565

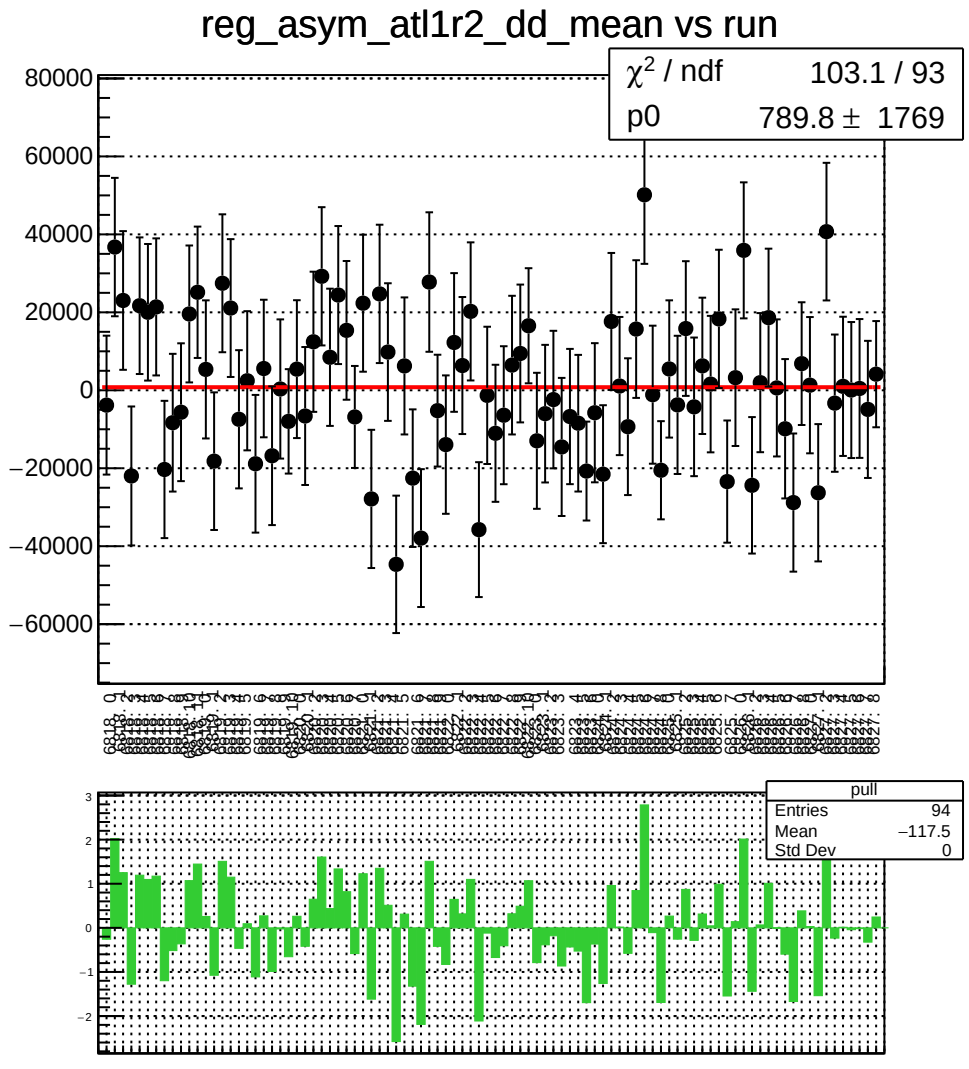

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.154e+04 / 93
p0 281.3 ± 0.2107
360
340
320
300
280
260
240
220

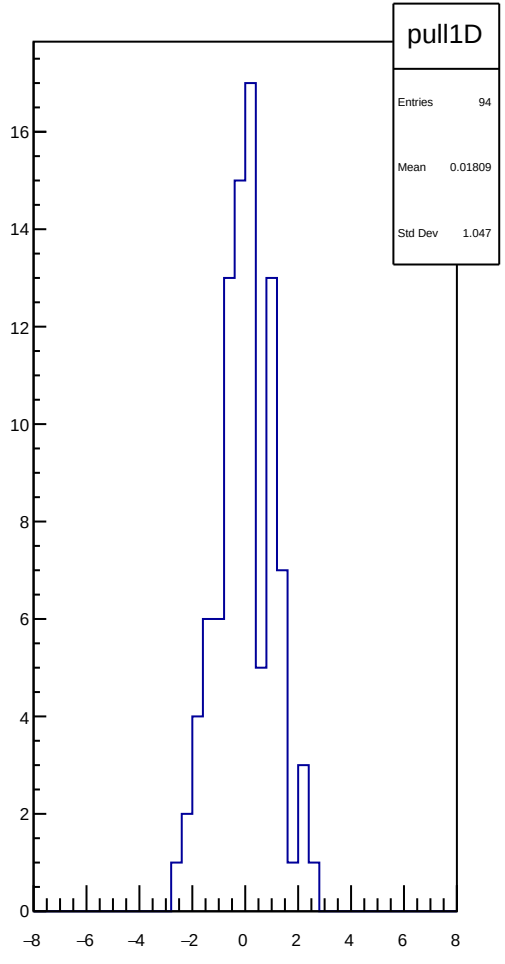

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86 / 93
p0 0.2102 ± 0.2979
pull
Entries 94
Mean 161.1
Std Dev 0
pull1D
Entries 94
Mean 0.006284
Std Dev 0.9565

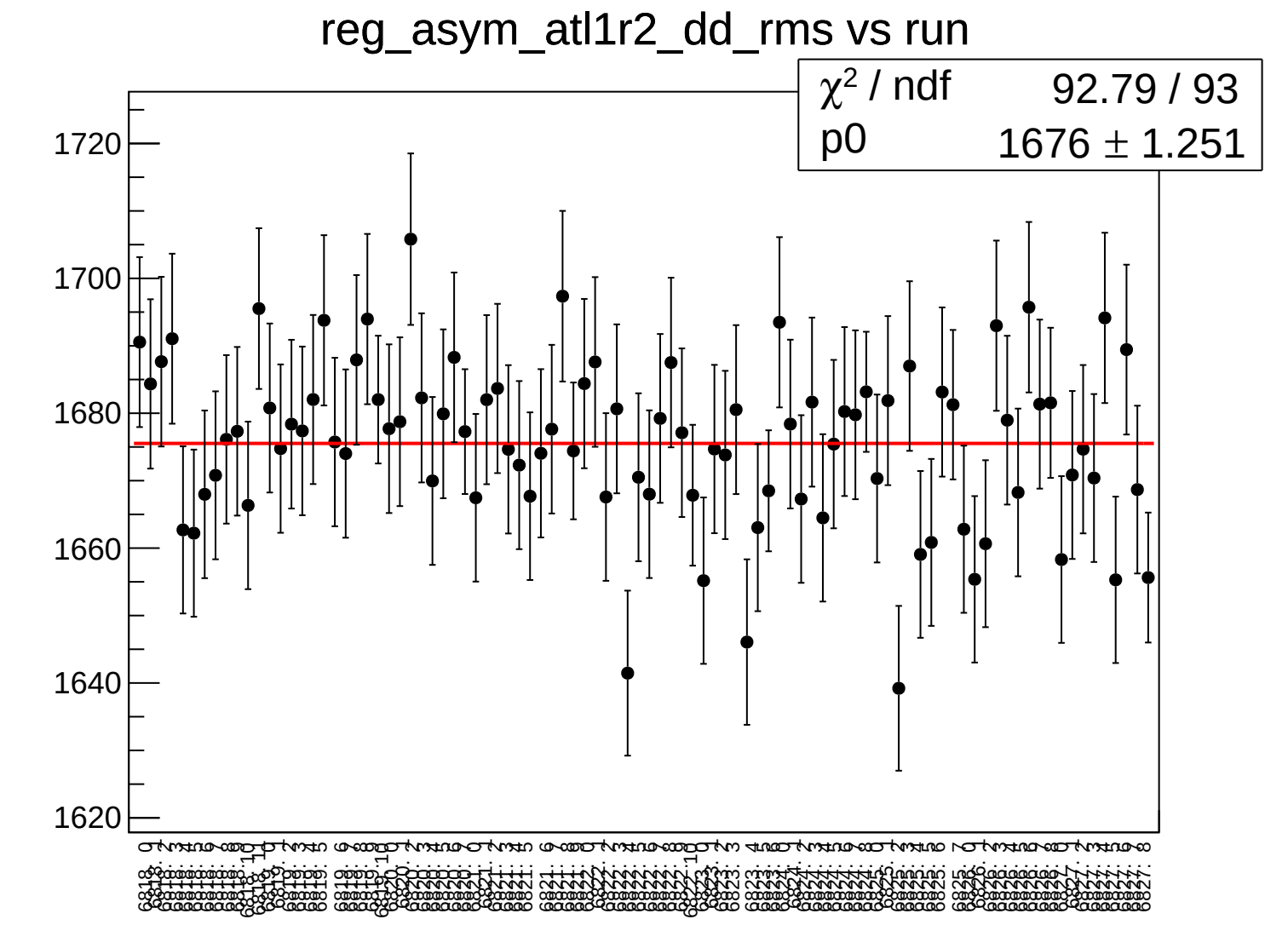

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.154e+04 / 93
p0 281.3 ± 0.2107
360
340
320
300
280
260
240
220

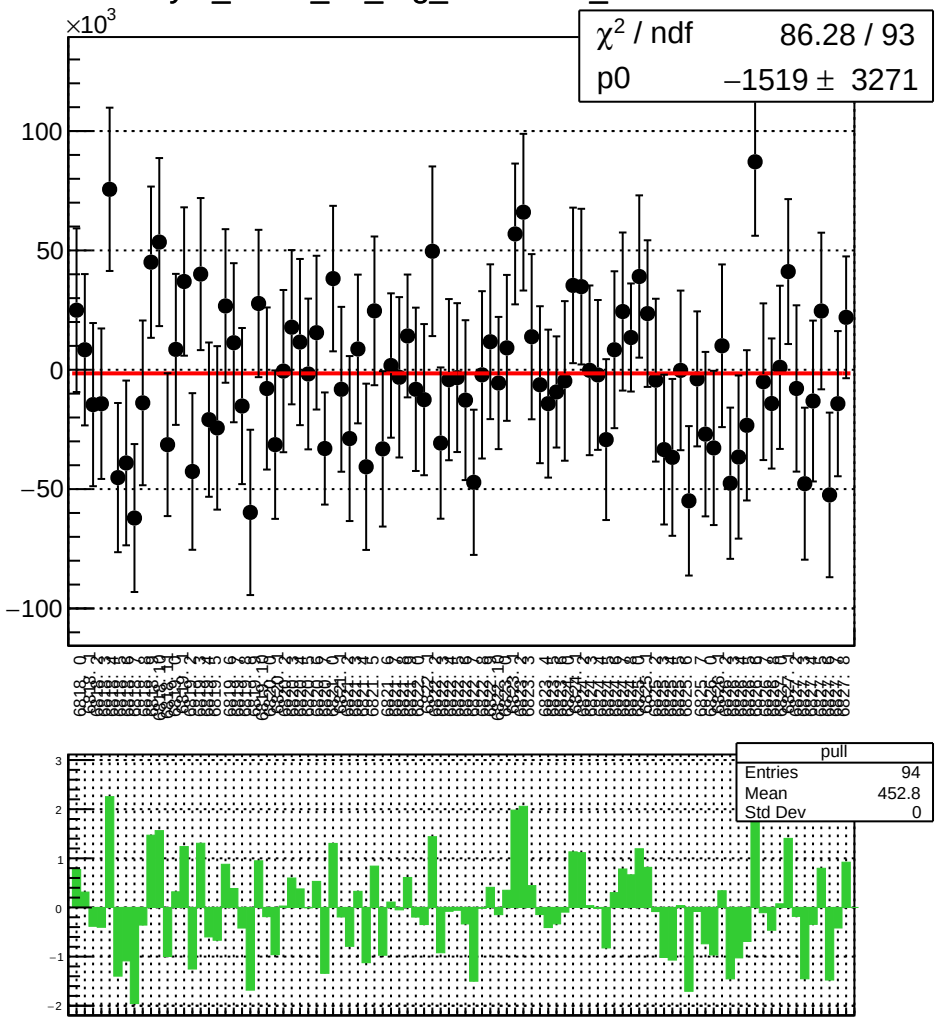

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.99 / 93
p0 8.131e−15 ± 7.203e−14
pull
Entries 94
Mean 41.08
Std Dev 33.74
pull1D
Entries 94
Mean 0.1911
Std Dev 0.9651

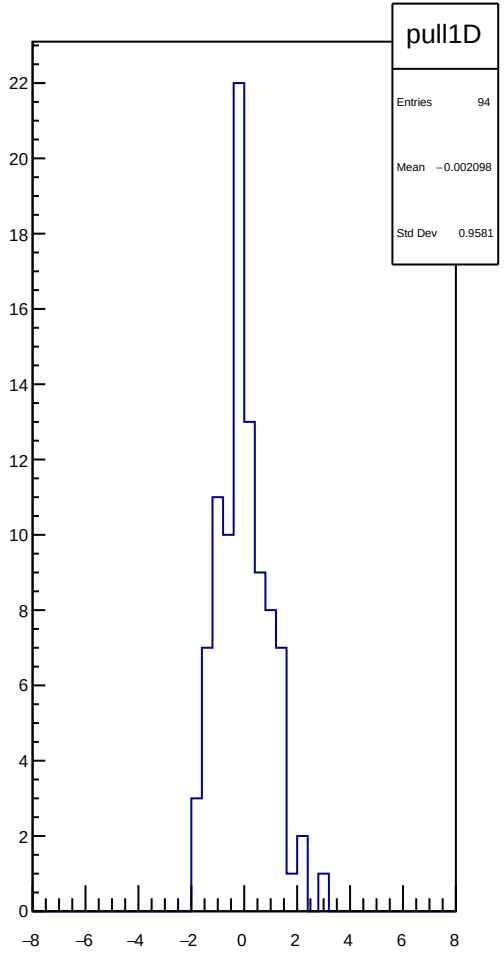

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.137e+05 / 93
p0 5.296e−11 ± 5.093e−14
0.6
0.5
0.4
0.3
0.2
0.1

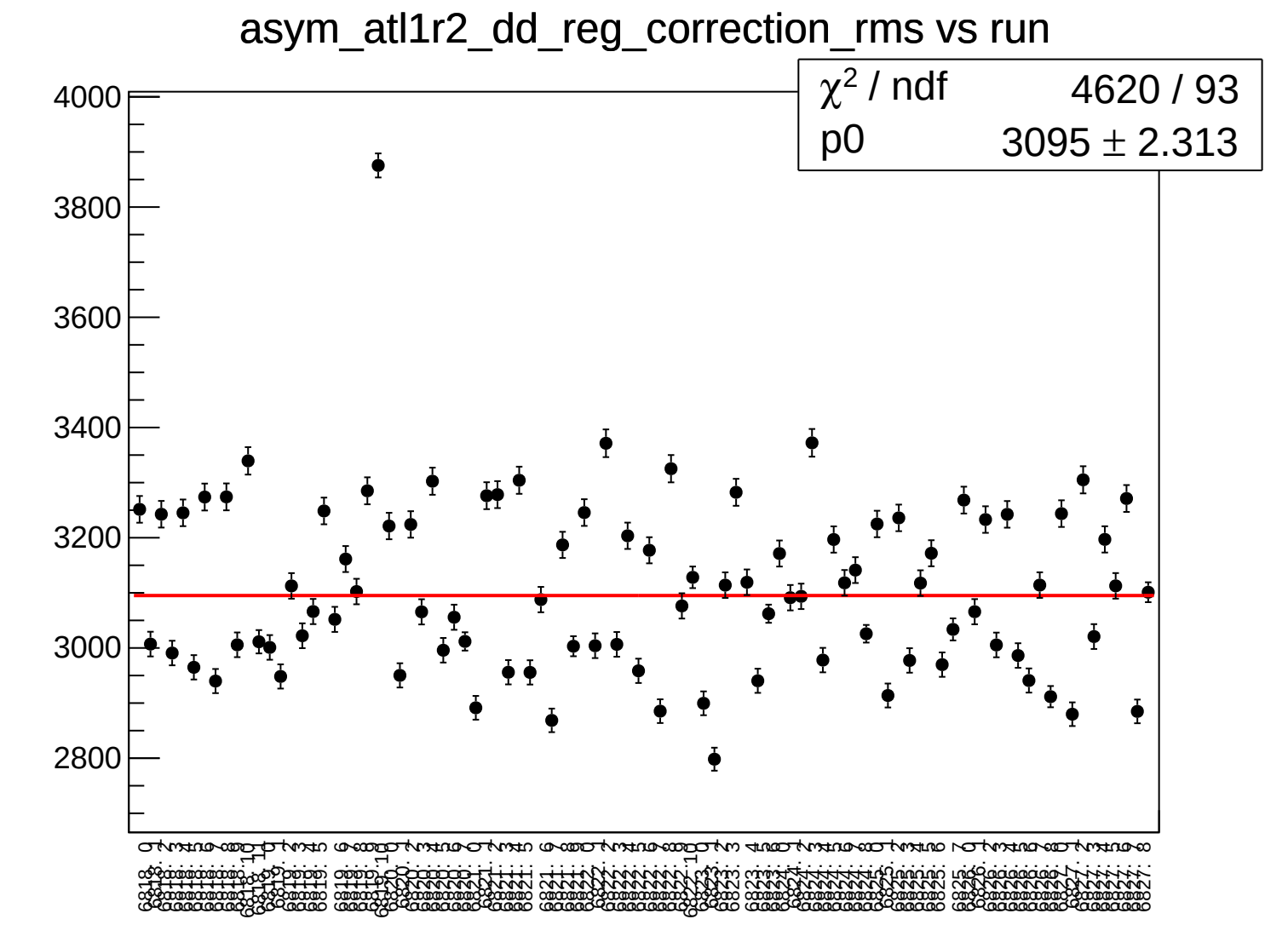

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 103.1 / 93
p0 789.8 ± 1769
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −117.5
Std Dev 0
3
2
1
0
−1
−2

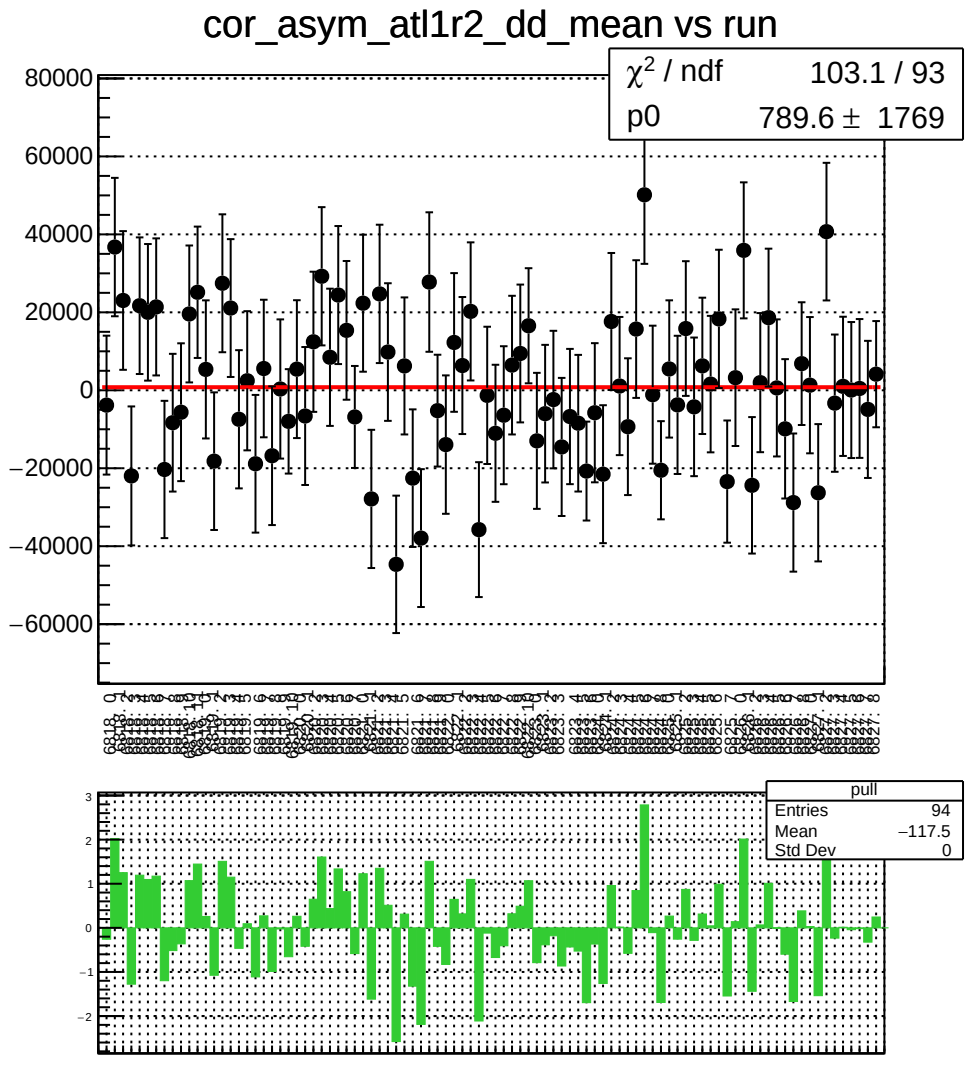

pull1D
Entries 94
Mean 0.01809
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

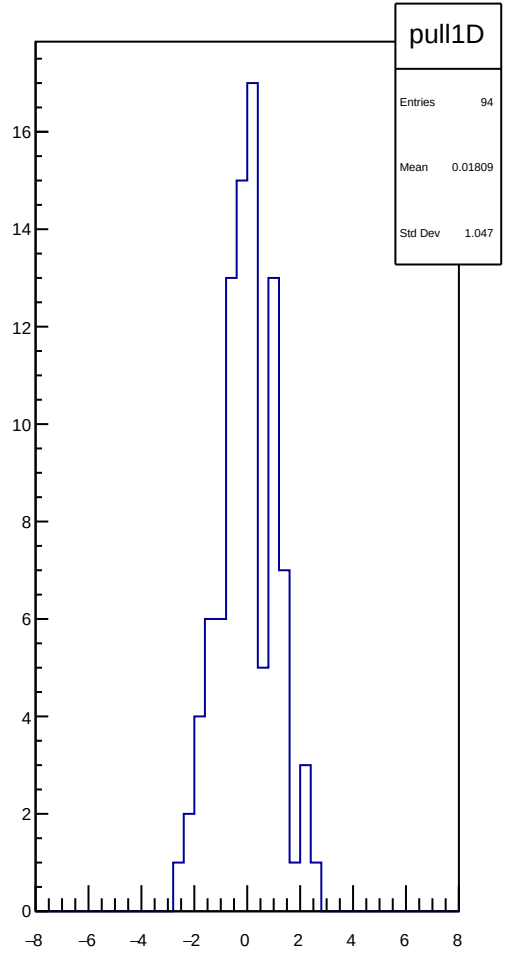

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 92.79 / 93
p0 1676 ± 1.251
1720
1700
1680
1660
1640
1620

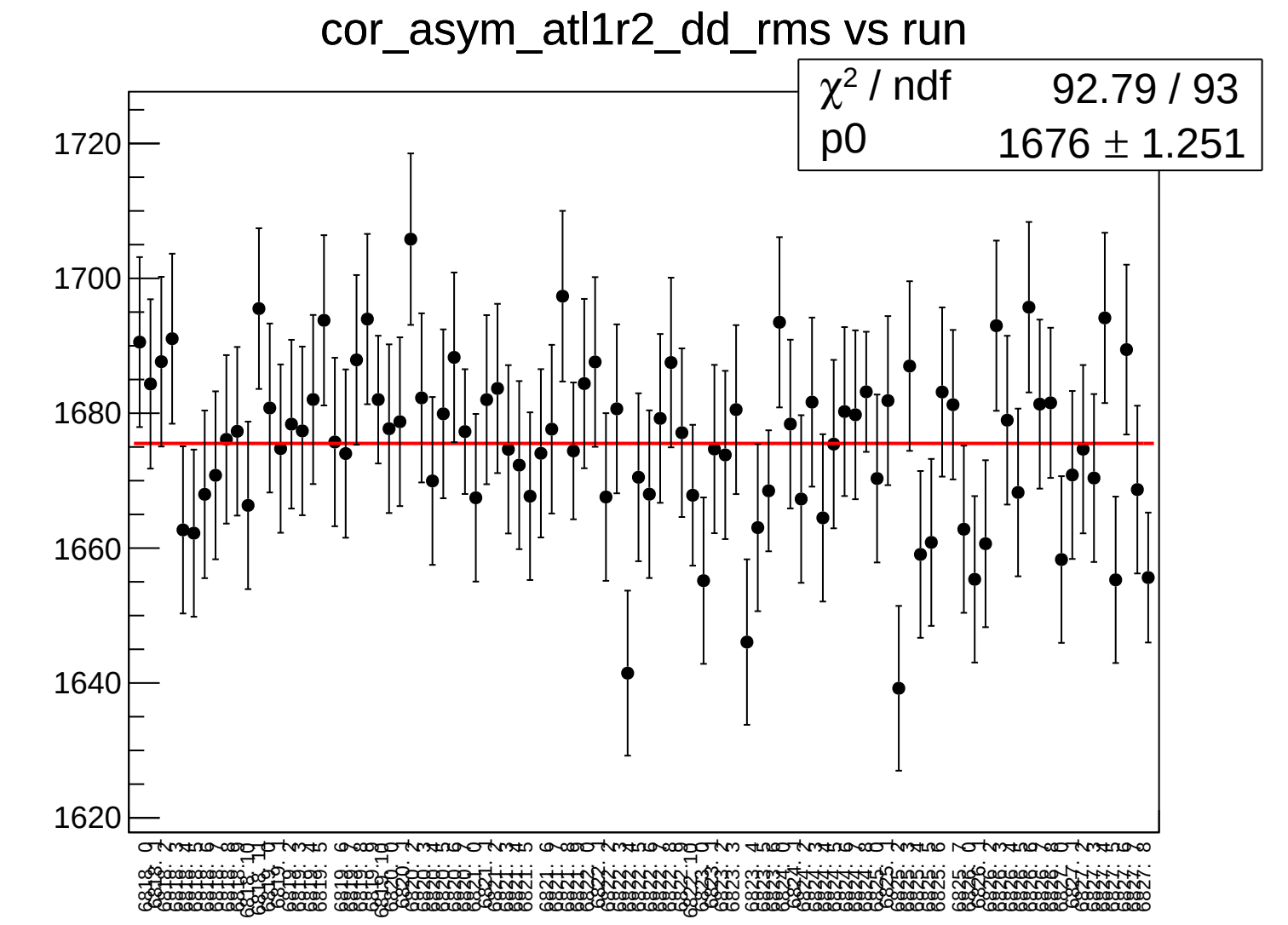

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 86.28 / 93
p0 −1519 ± 3271
100
50
0
−50
−100
pull
Entries 94
Mean 452.8
Std Dev 0
3
2
1
0
−1
−2

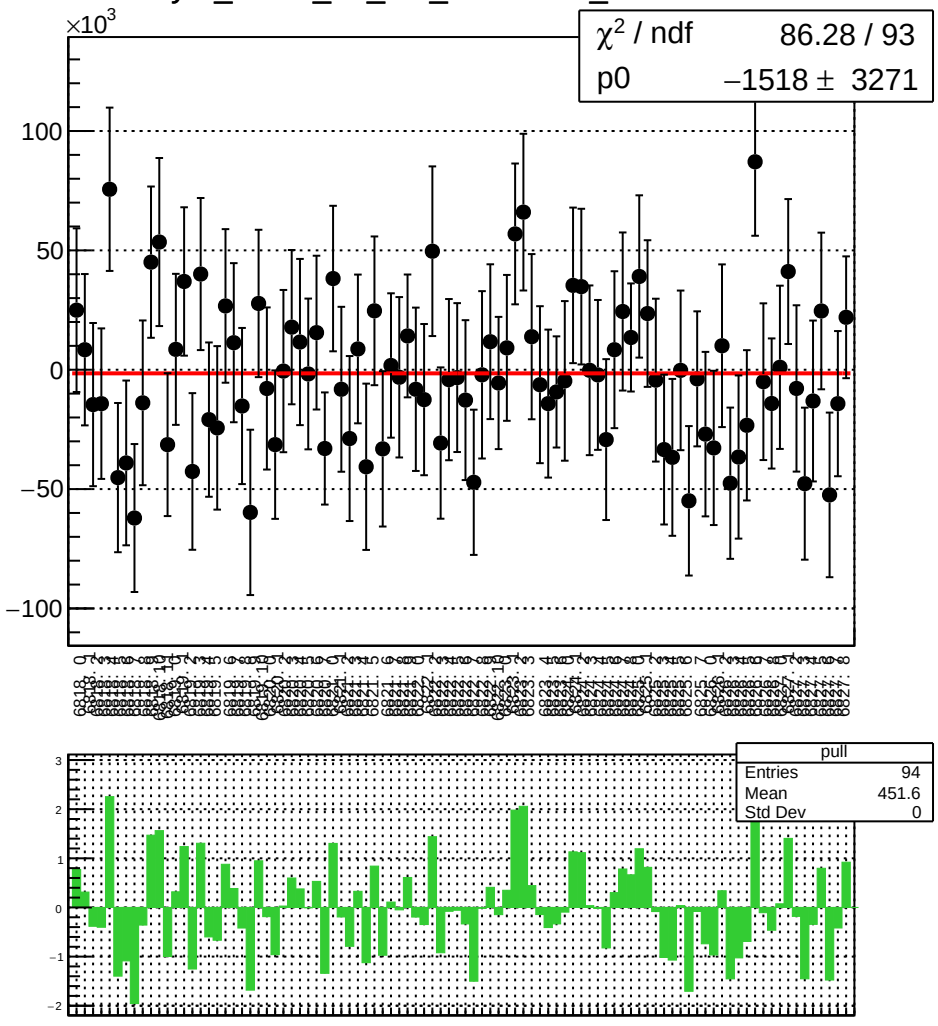

pull1D
Entries 94
Mean −0.002098
Std Dev 0.9581
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

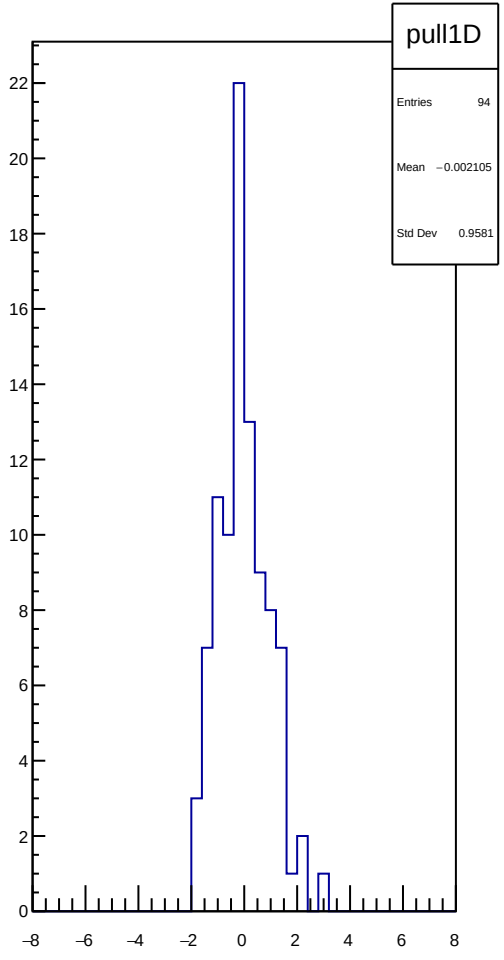

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 4620 / 93
p0 3095 ± 2.313
4000
3800
3600
3400
3200
3000
2800

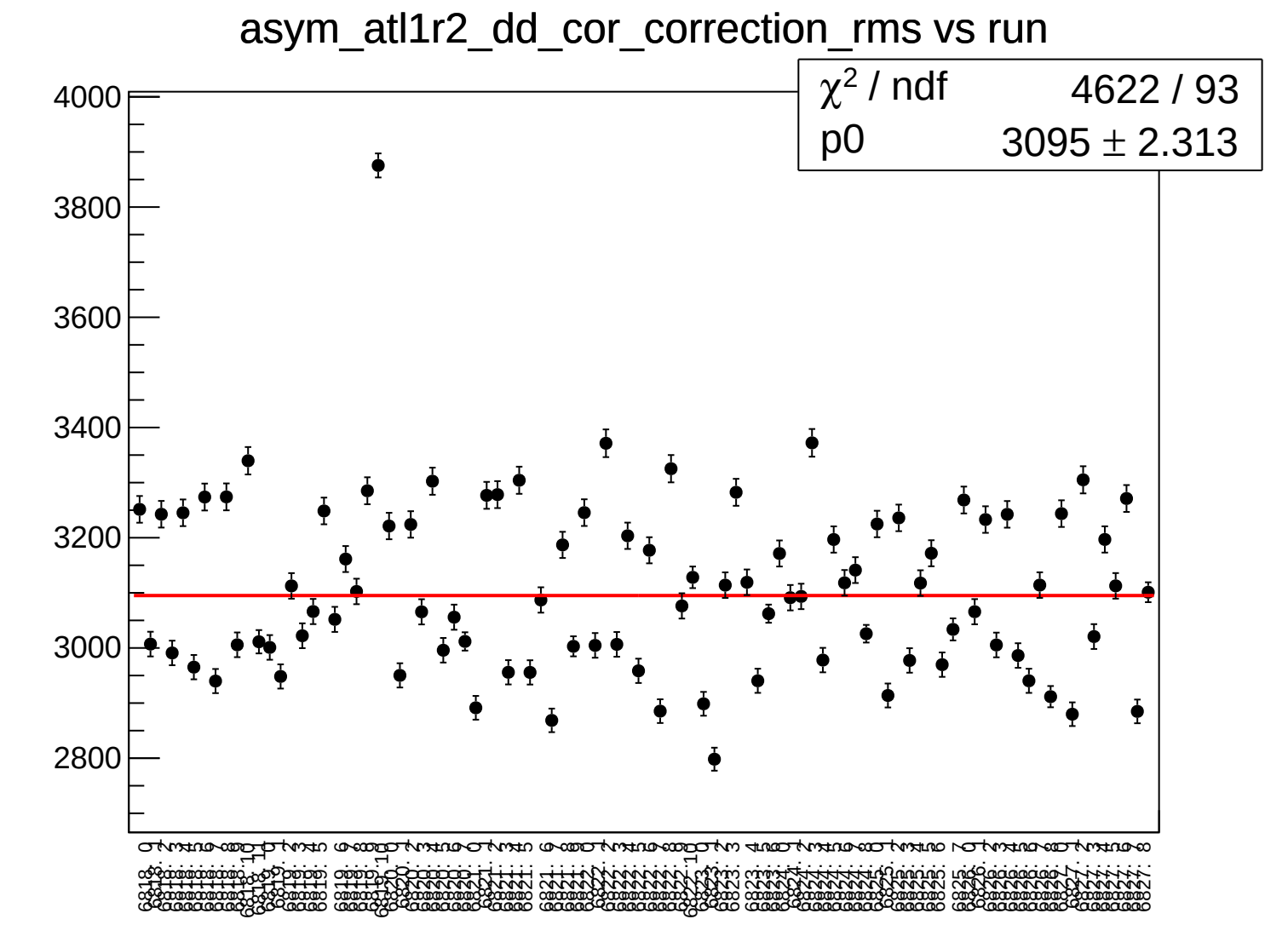

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.1 / 93
p0 789.6 ± 1769
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −117.5
Std Dev 0
3
2
1
0
−1
−2

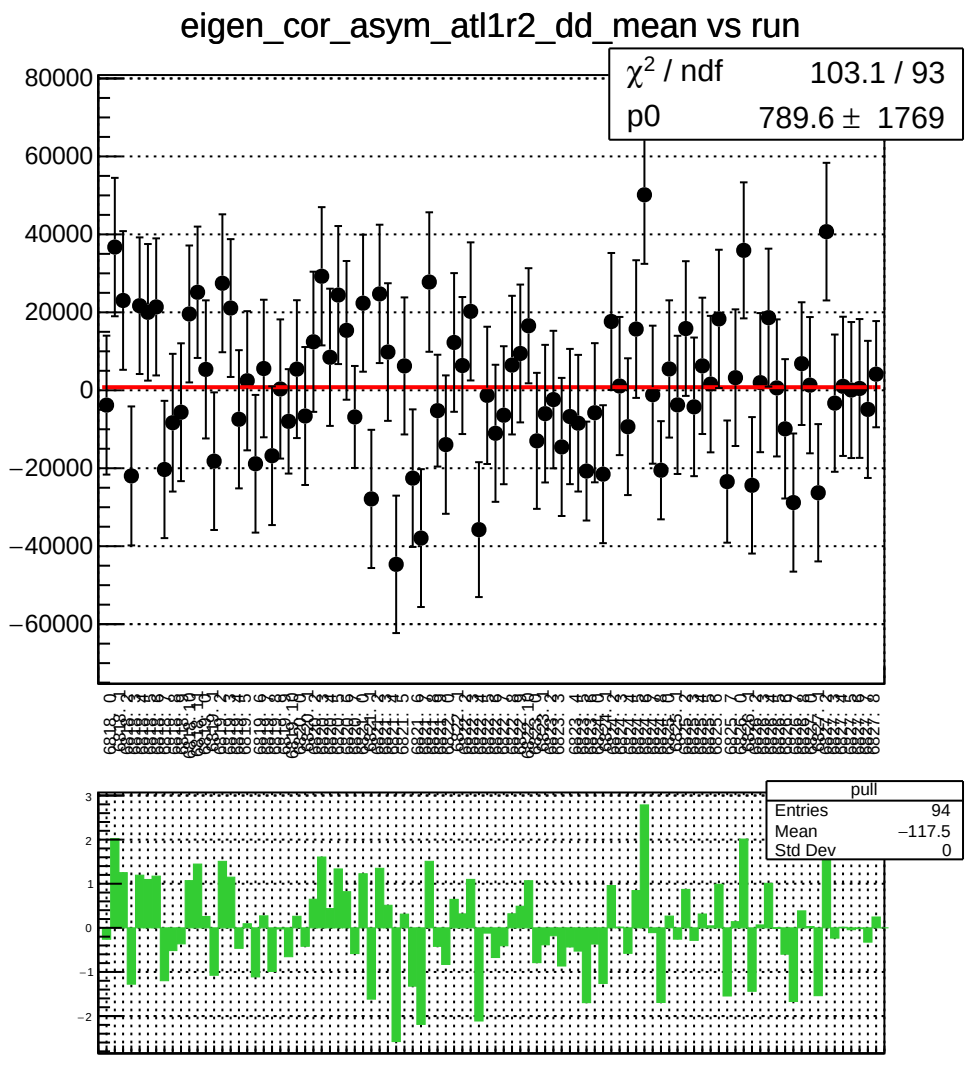

pull1D
Entries 94
Mean 0.01809
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

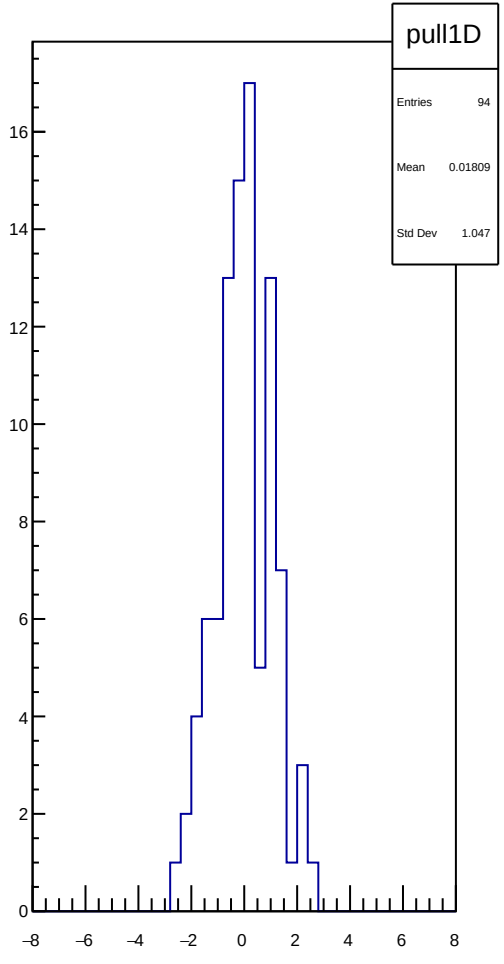

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 92.79 / 93
p0 1676 ± 1.251
1720
1700
1680
1660
1640
1620

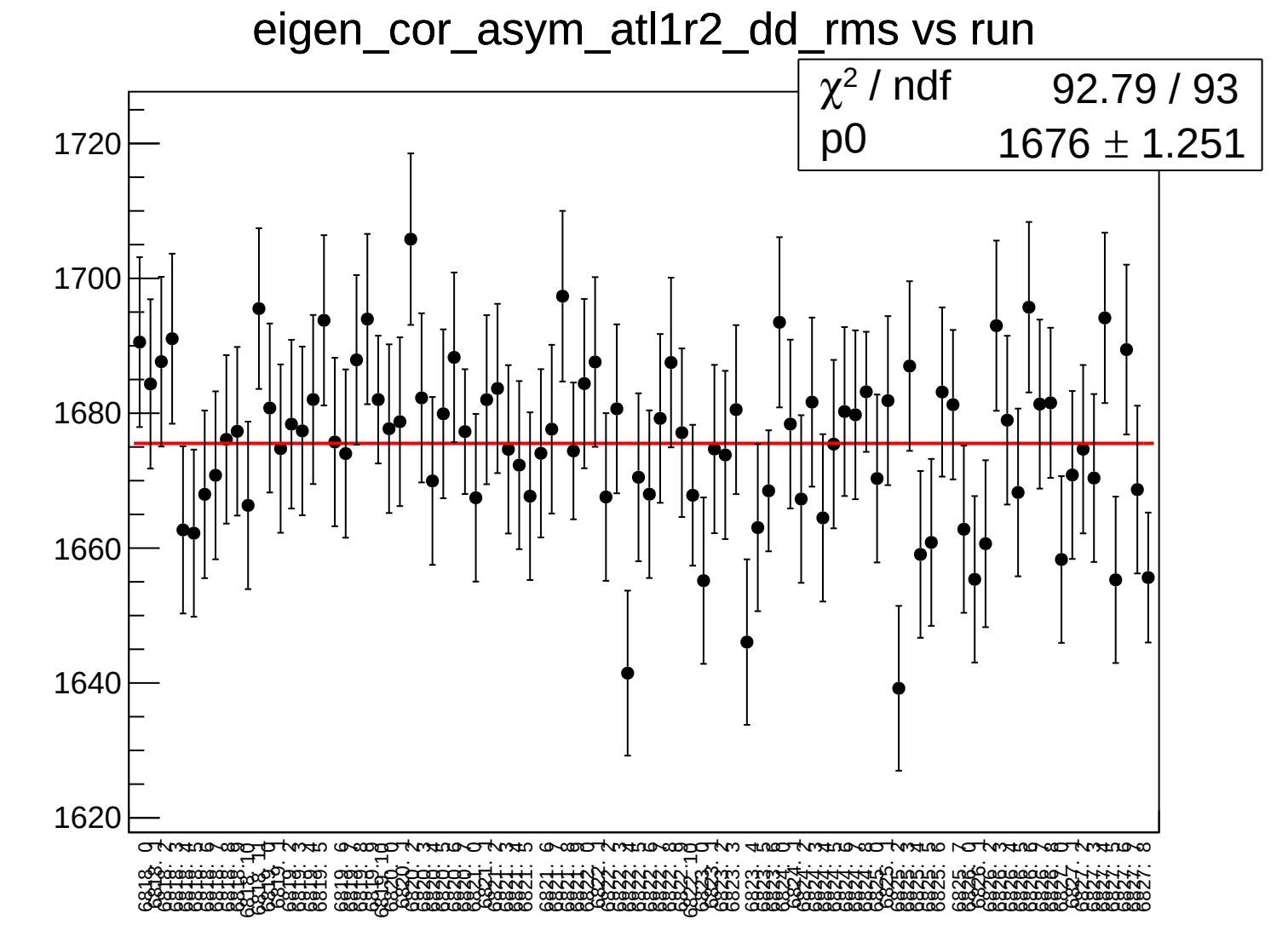

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 86.28 / 93
p0 −1518 ± 3271
100
50
0
−50
−100
pull
Entries 94
Mean 451.6
Std Dev 0
3
2
1
0
−1
−2

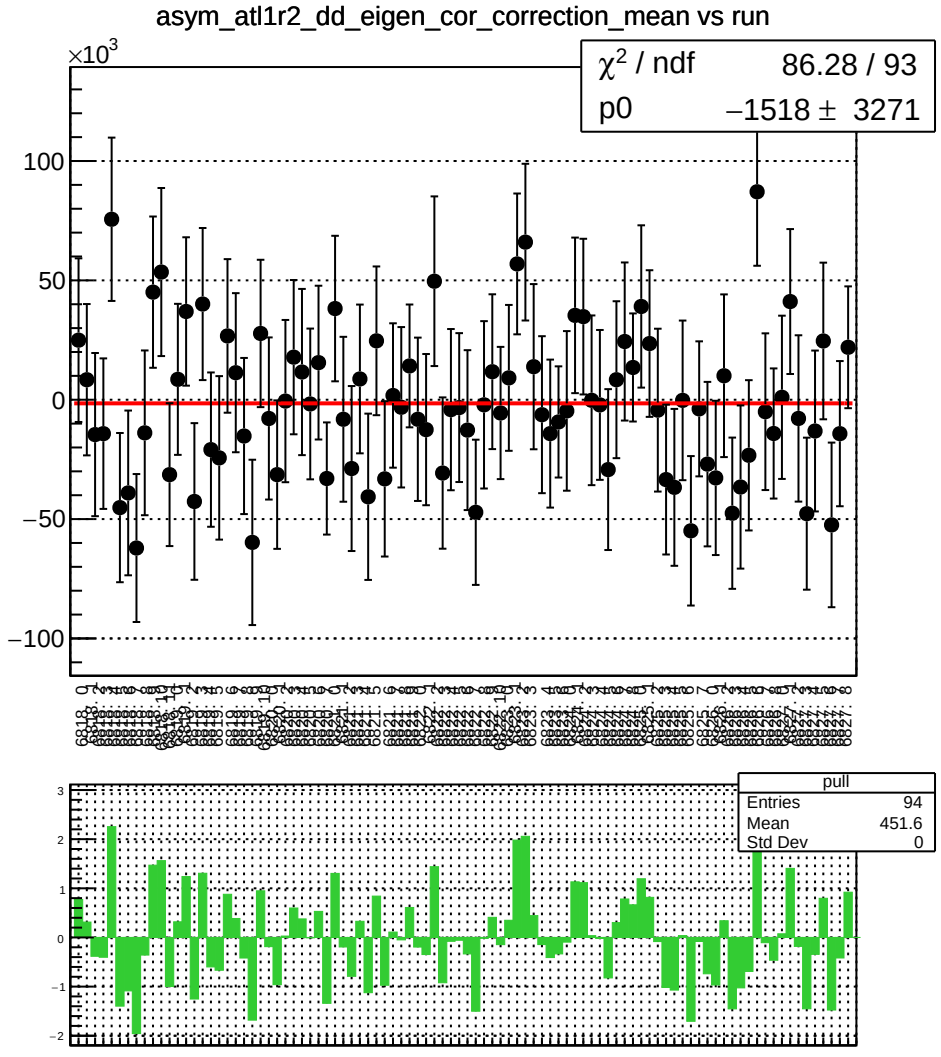

pull1D
Entries 94
Mean −0.002105
Std Dev 0.9581
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

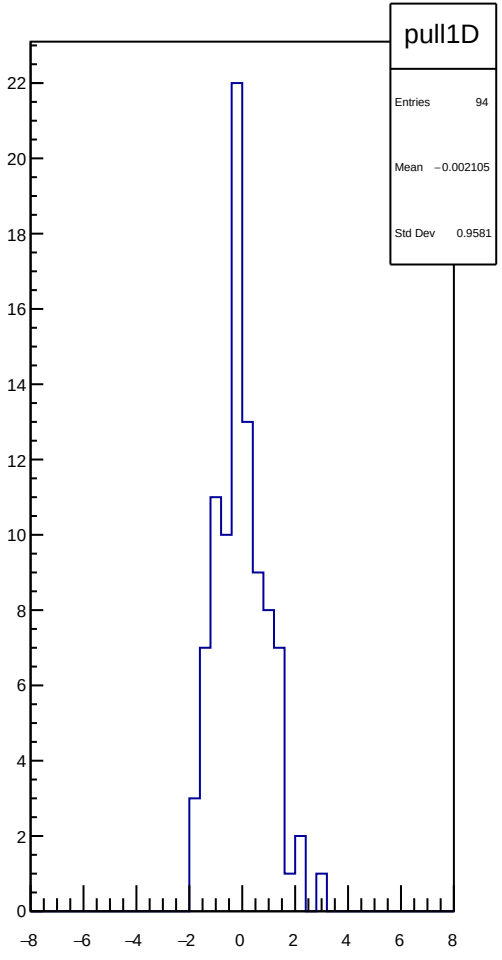

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 4622 / 93
p0 3095 ± 2.313
4000
3800
3600
3400
3200
3000
2800

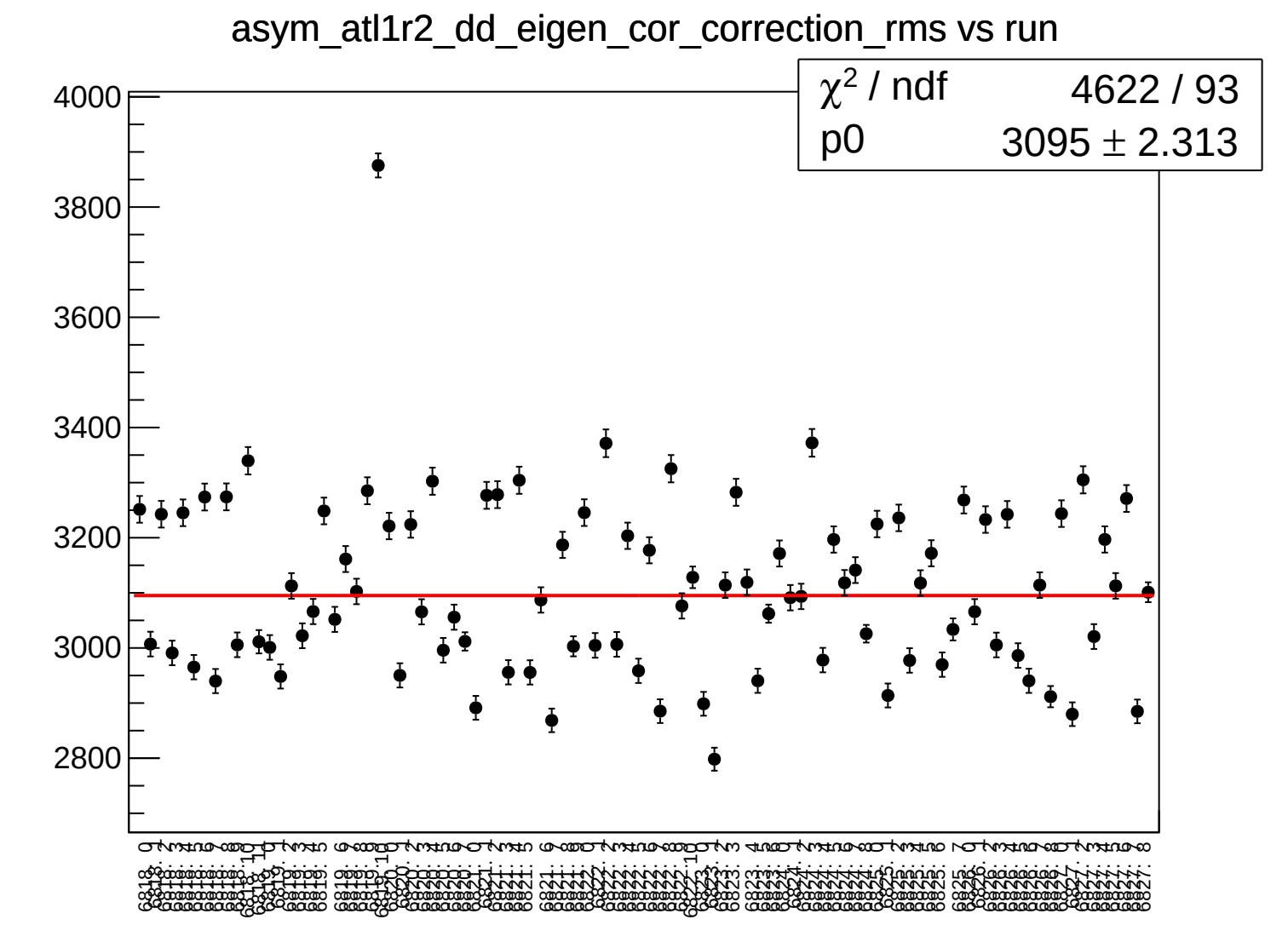

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 103.1 / 93
p0 789.6 ± 1769
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −117.5
Std Dev 0
3
2
1
0
−1
−2

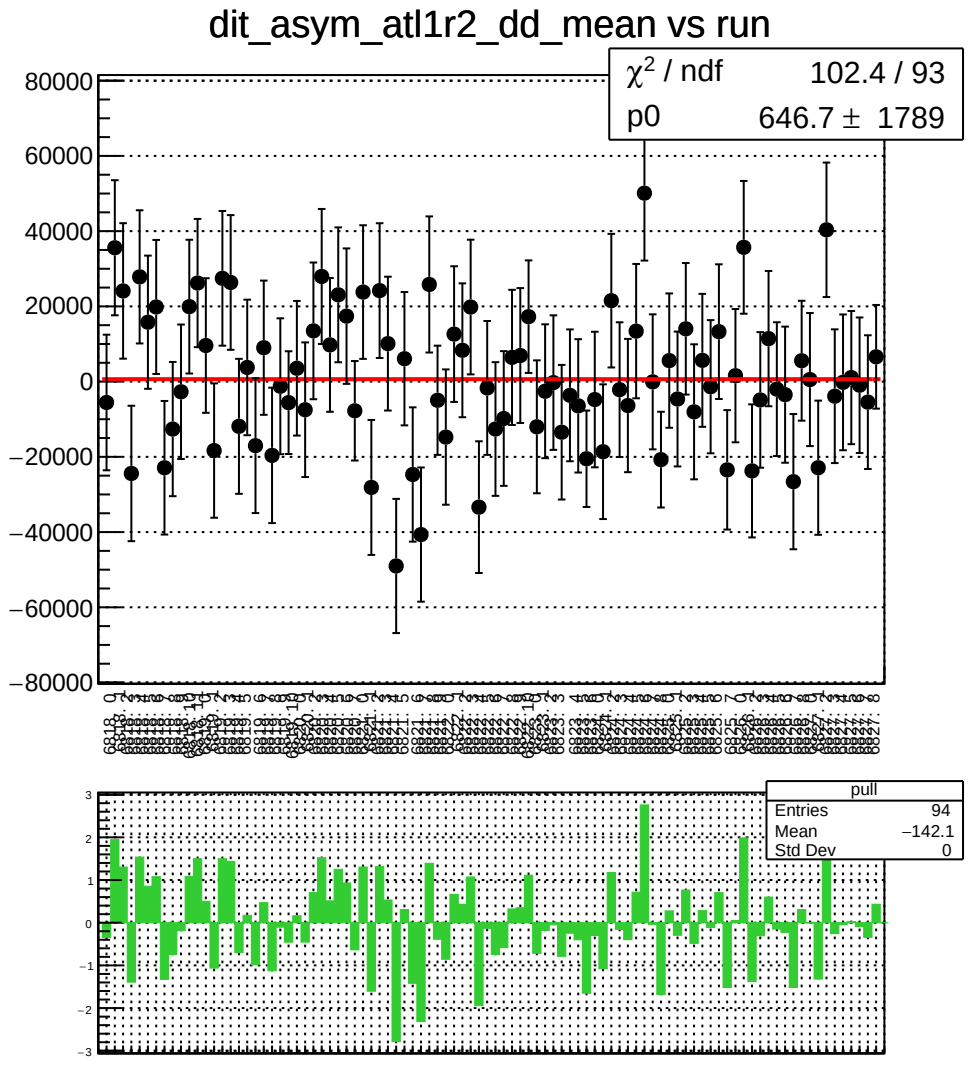

pull1D
Entries 94
Mean 0.01809
Std Dev 1.047
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

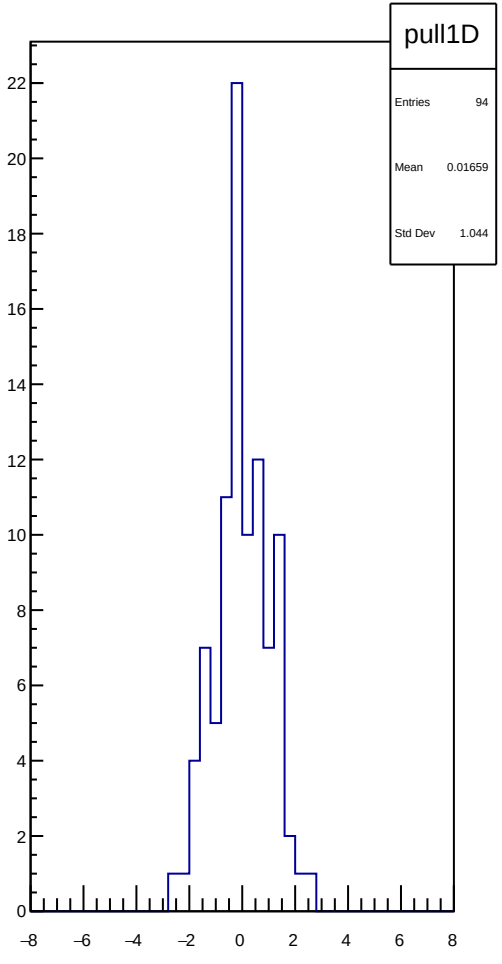

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 92.79 / 93
p0 1676 ± 1.251
1720
1700
1680
1660
1640
1620

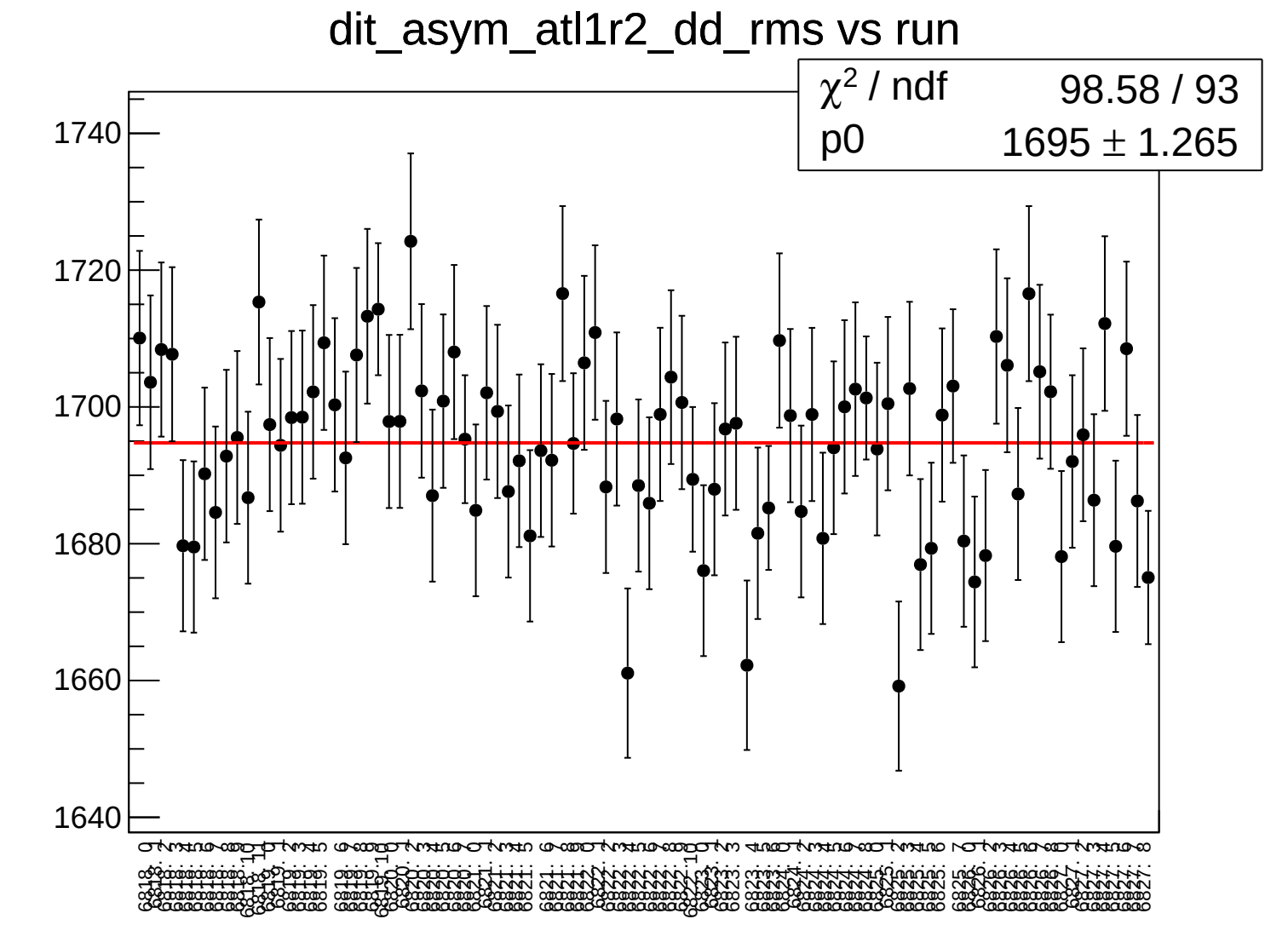

asym_atl1r2_dd_eigen_cor_correction_mean vs run
χ^2 / ndf 86.28 / 93
p0 −1518 ± 3271
×10^3
100
50
0
−50
−100
pull
Entries 94
Mean 451.6
Std Dev 0
3
2
1
0
−1
−2

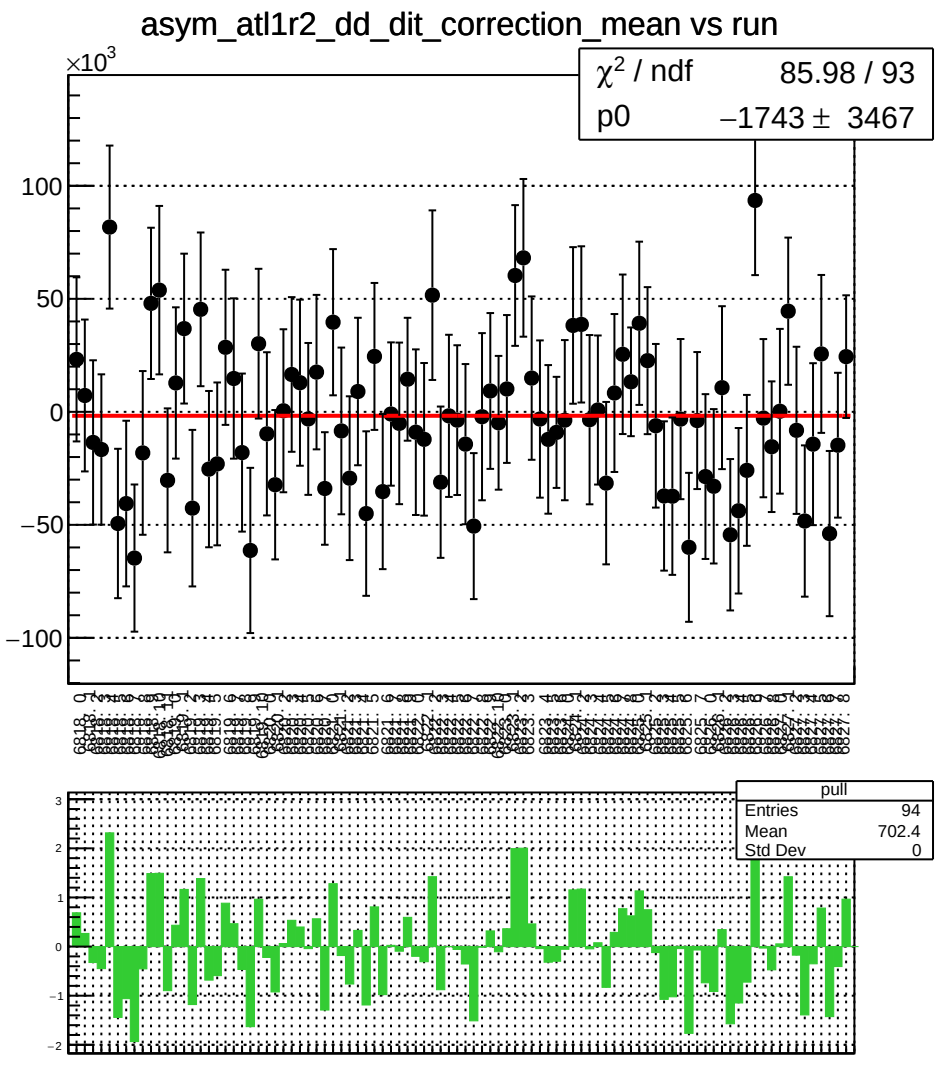

pull1D
Entries 94
Mean −0.002105
Std Dev 0.9581
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

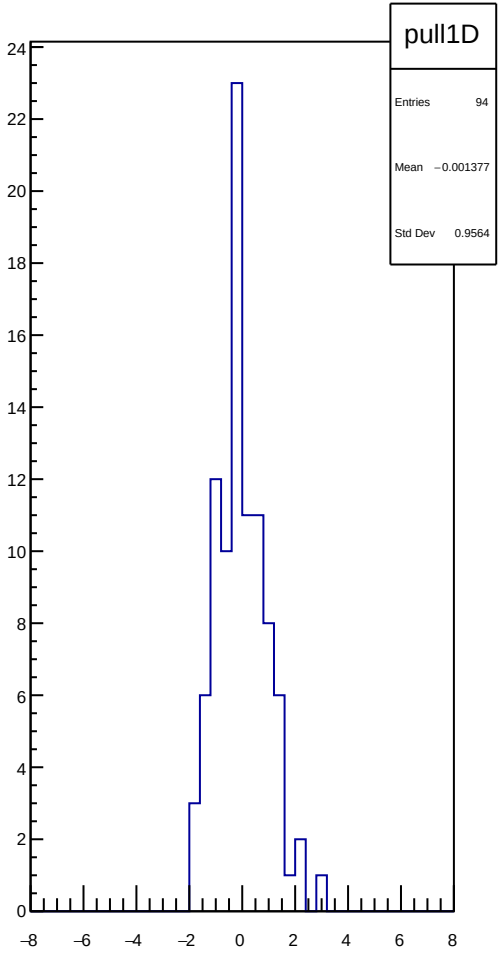

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4622 / 93
p0 3095 ± 2.313
4000
3800
3600
3400
3200
3000
2800

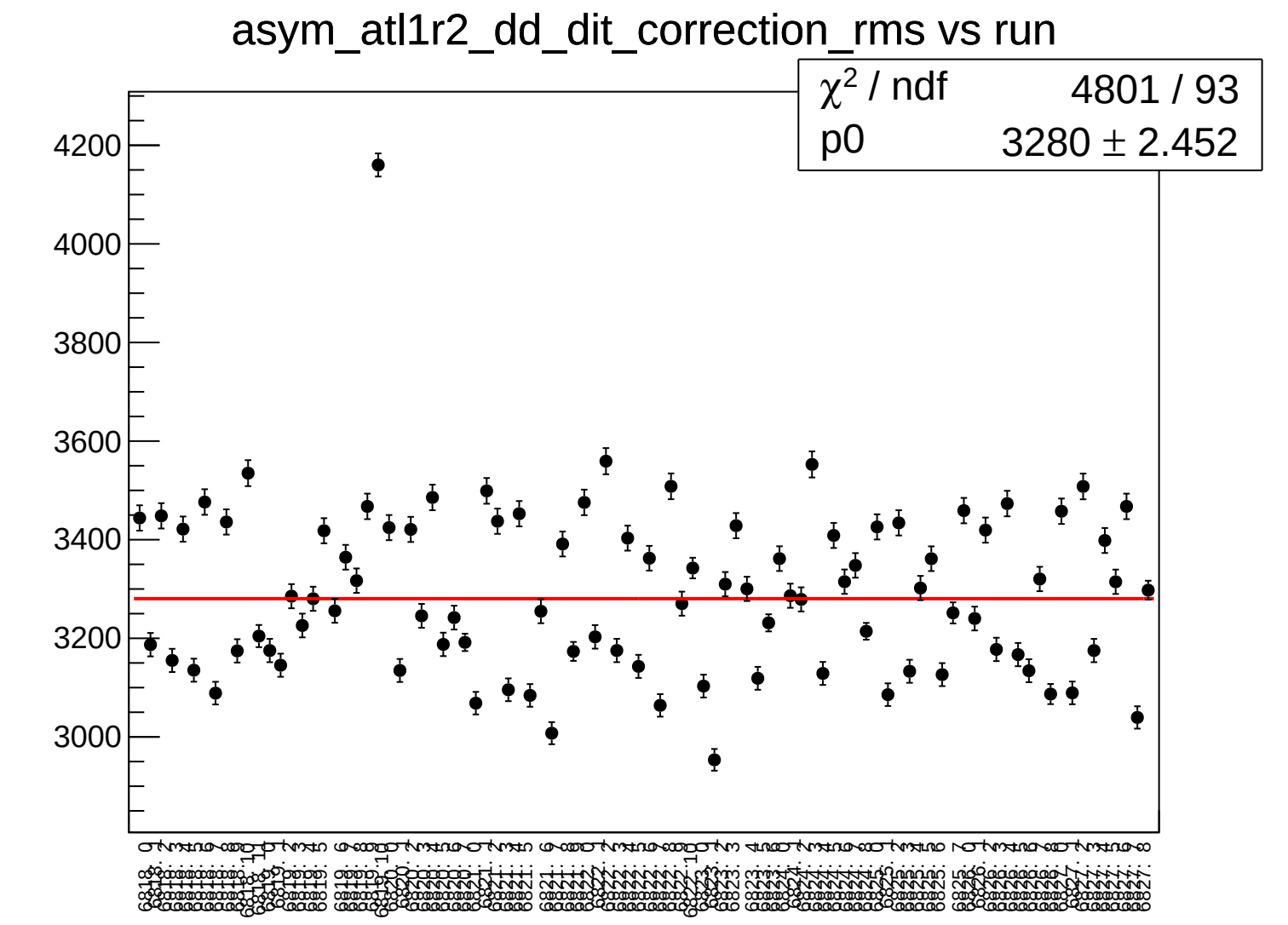

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 102.4 / 93
p0 646.7 ± 1789
pull
Entries 94
Mean −142.1
Std Dev 0

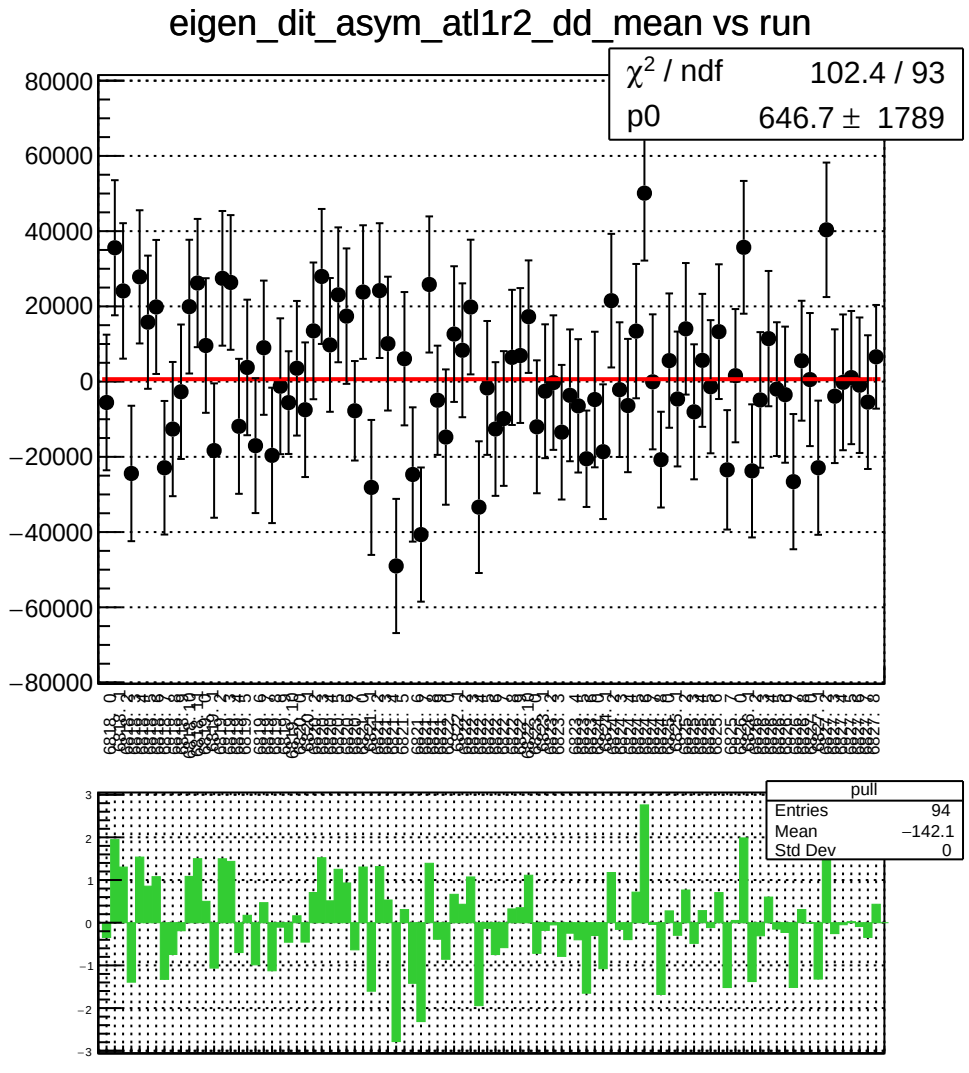

pull1D
Entries 94
Mean 0.01659
Std Dev 1.044

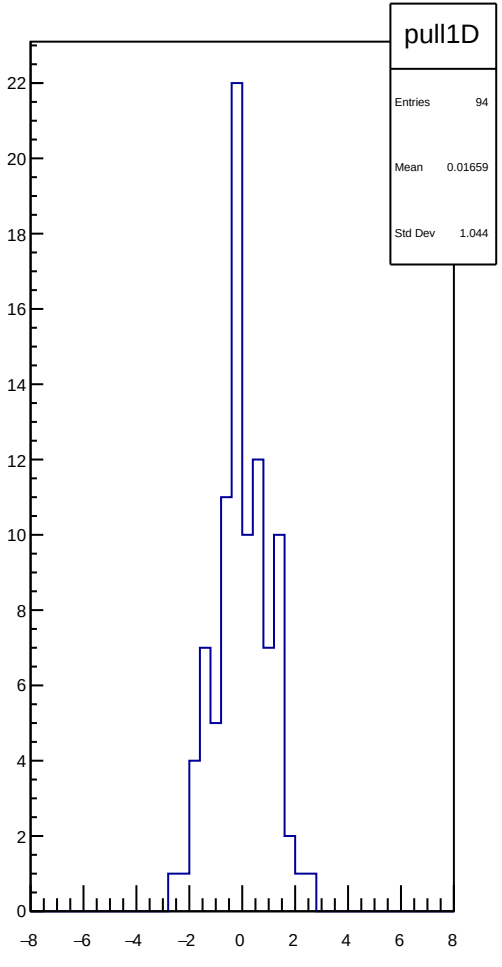

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 98.58 / 93
p0 1695 ± 1.265
1740
1720
1700
1680
1660
1640

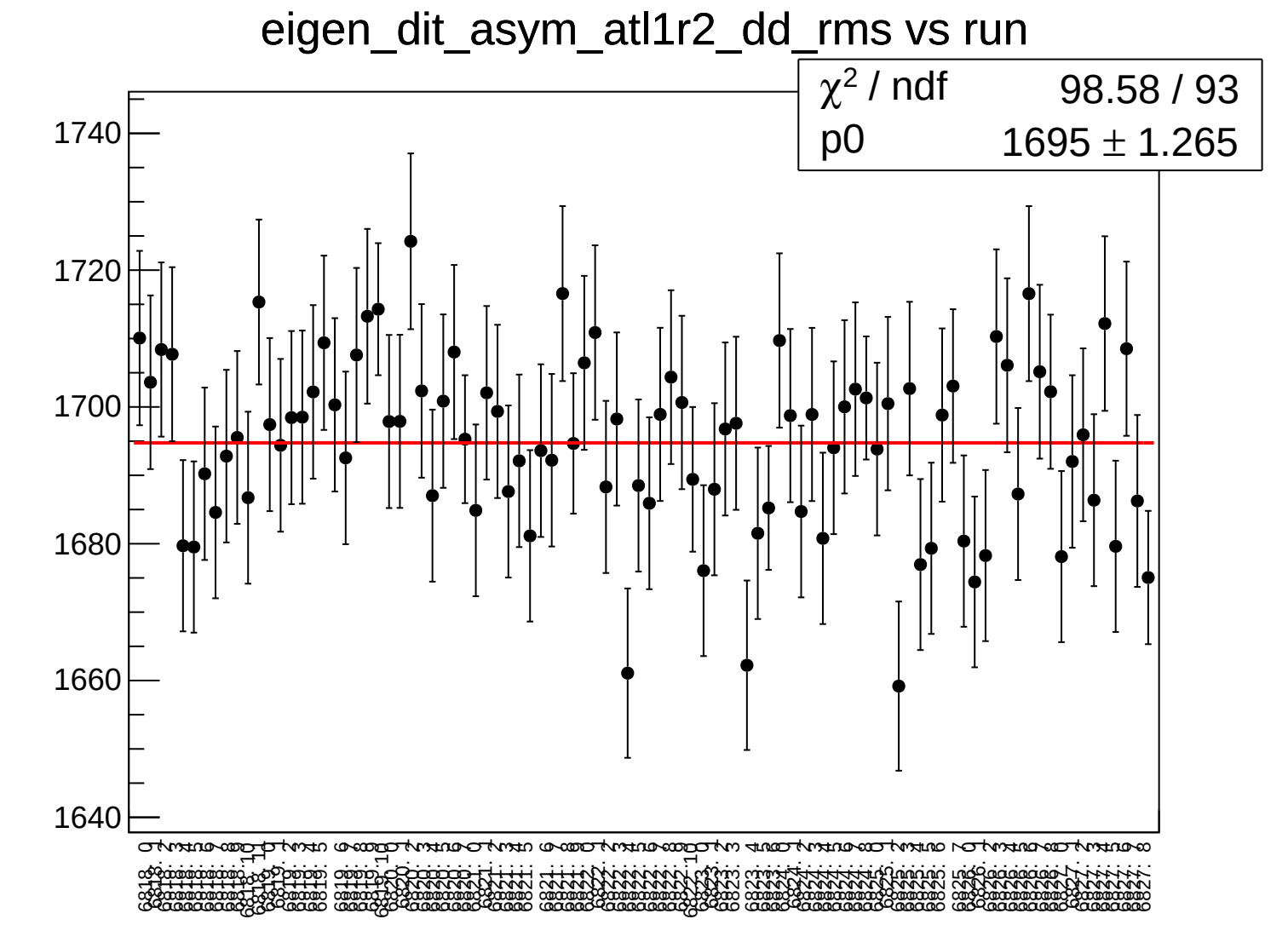

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.98 / 93
p0 −1743 ± 3467
100
50
0
−50
−100
pull
Entries 94
Mean 702.4
Std Dev 0
3
2
1
0
−1
−2

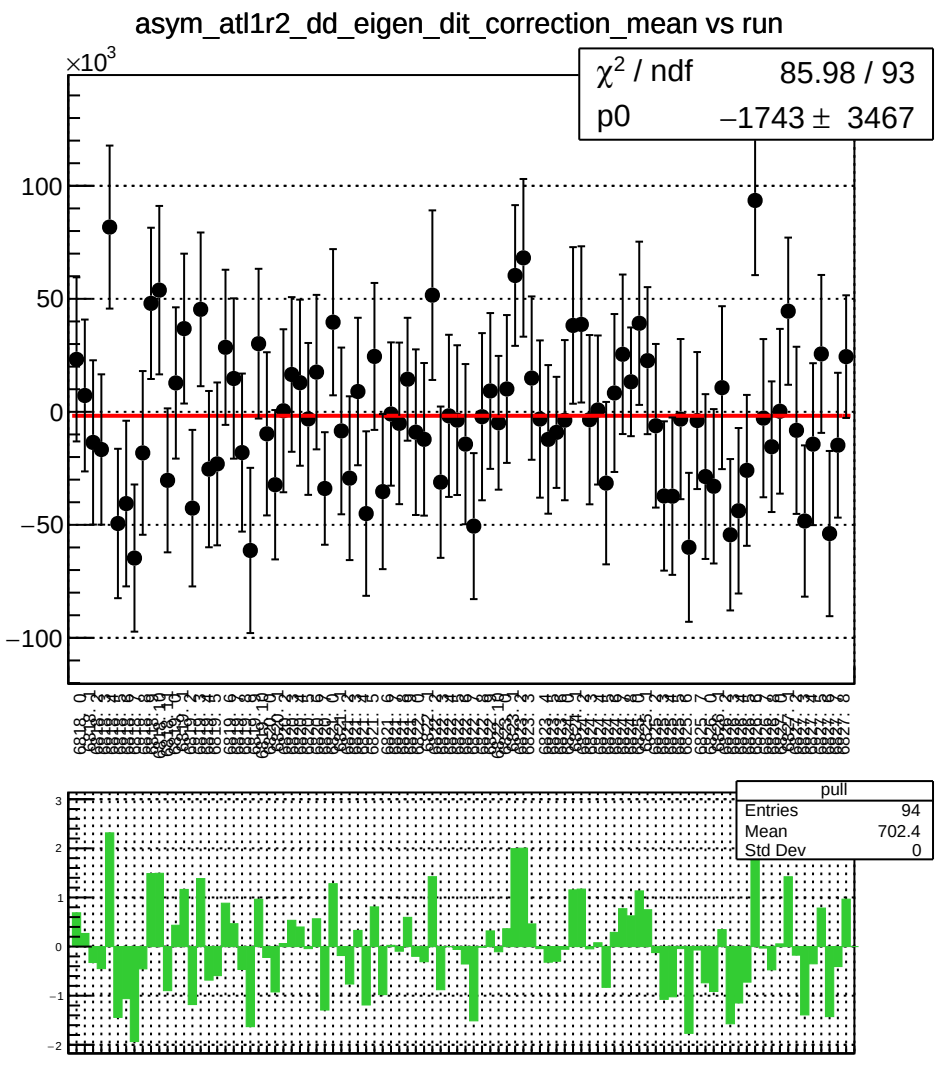

pull1D
Entries 94
Mean −0.001377
Std Dev 0.9564
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

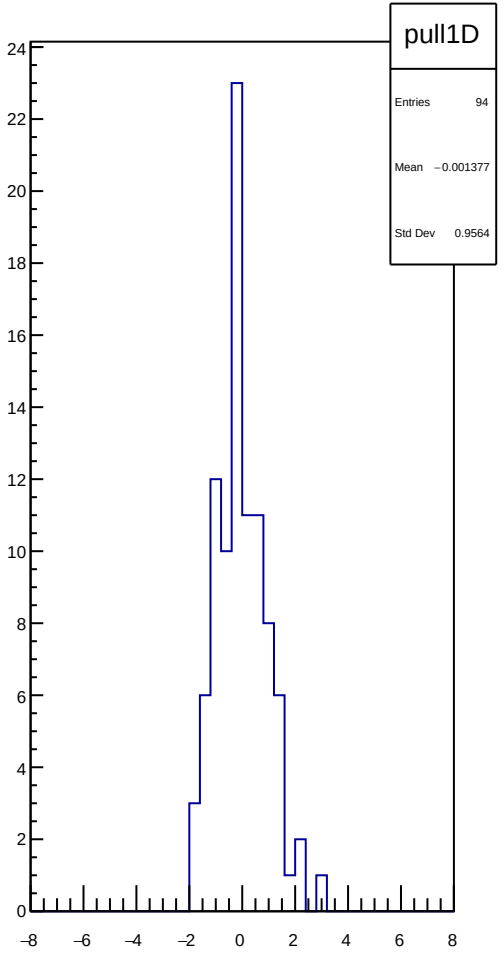

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 4801 / 93
p0 3280 ± 2.452
4200
4000
3800
3600
3400
3200
3000

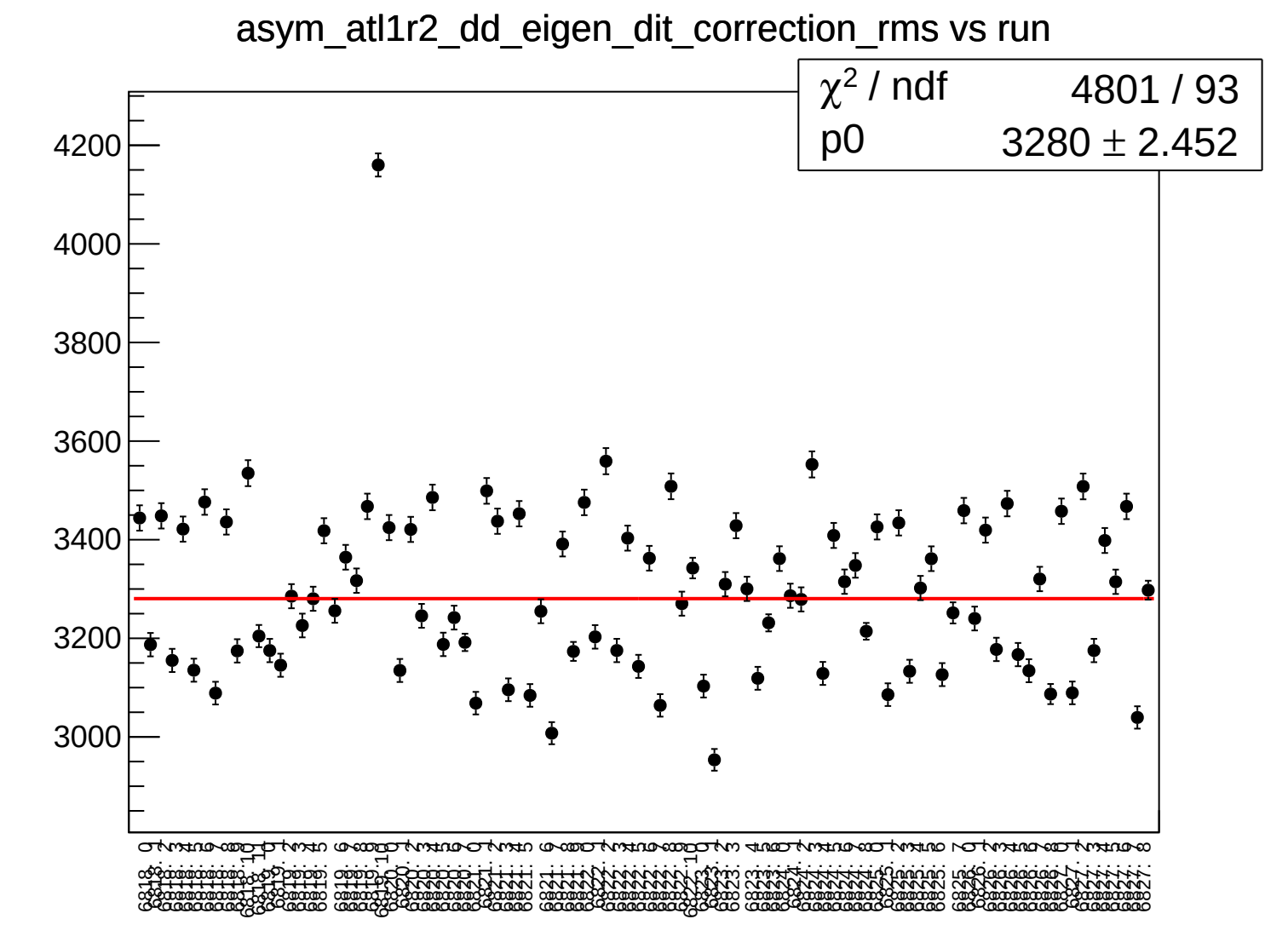

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 102.4 / 93
p0 646.7 ± 1789
pull
Entries 94
Mean −142.1
Std Dev 0

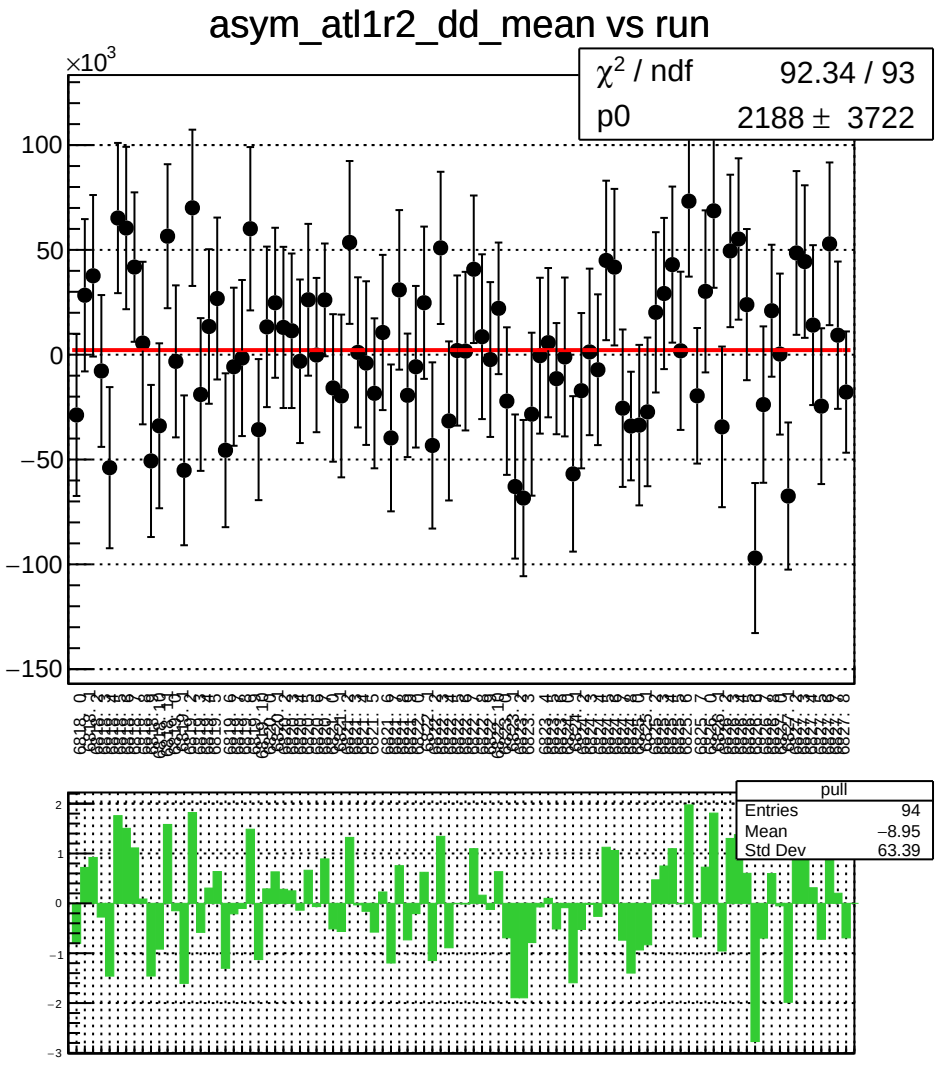

pull1D
Entries 94
Mean 0.01659
Std Dev 1.044

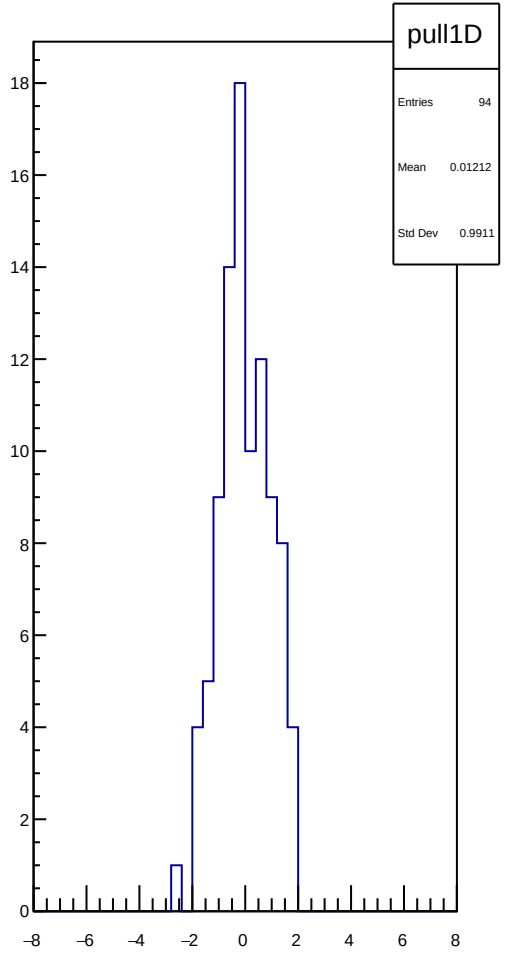

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 98.58 / 93
p0 1695 ± 1.265
1740
1720
1700
1680
1660
1640

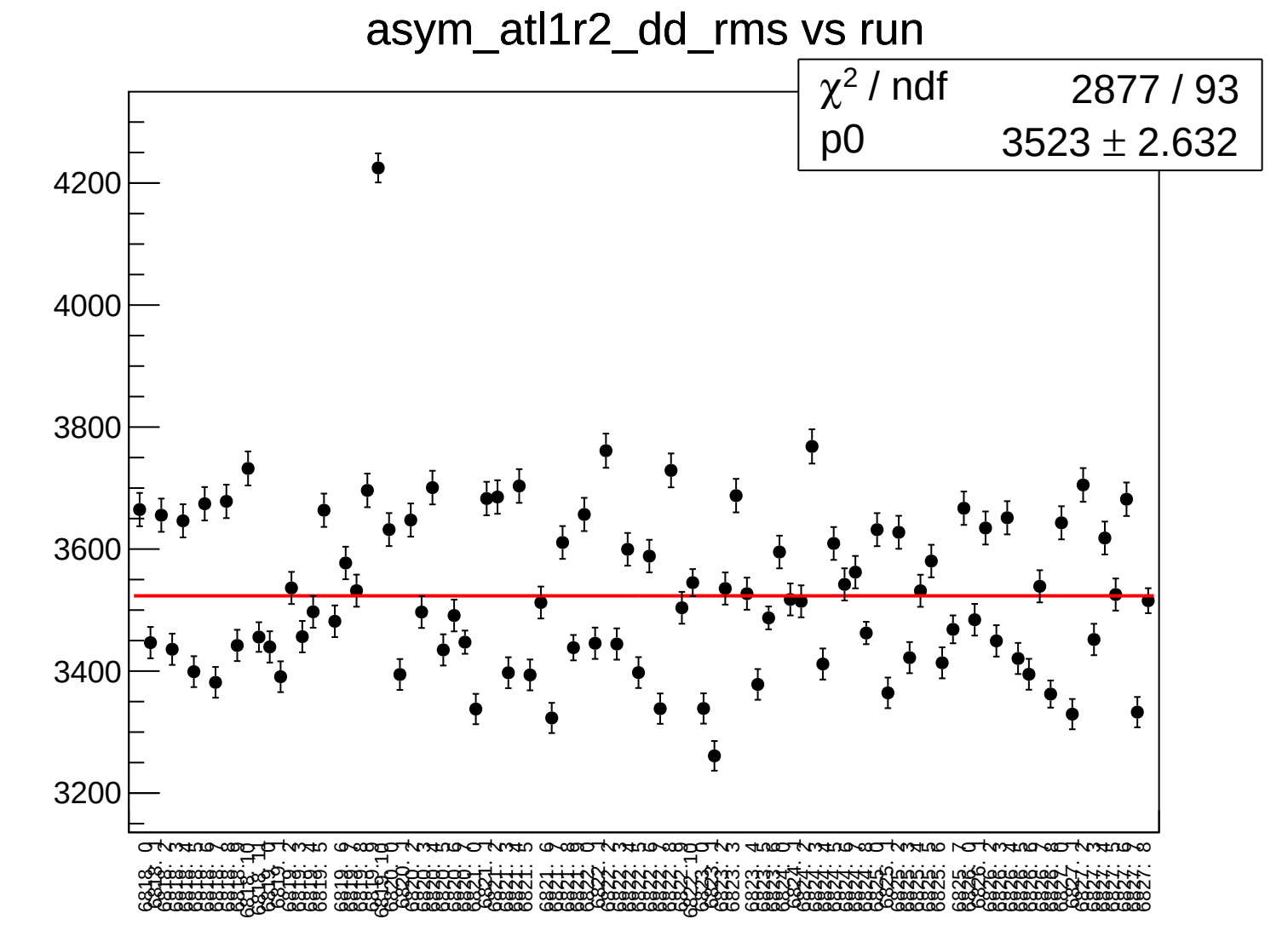

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.98 / 93
p0 −1743 ± 3467
100
50
0
−50
−100
pull
Entries 94
Mean 702.4
Std Dev 0
3
2
1
0
−1
−2

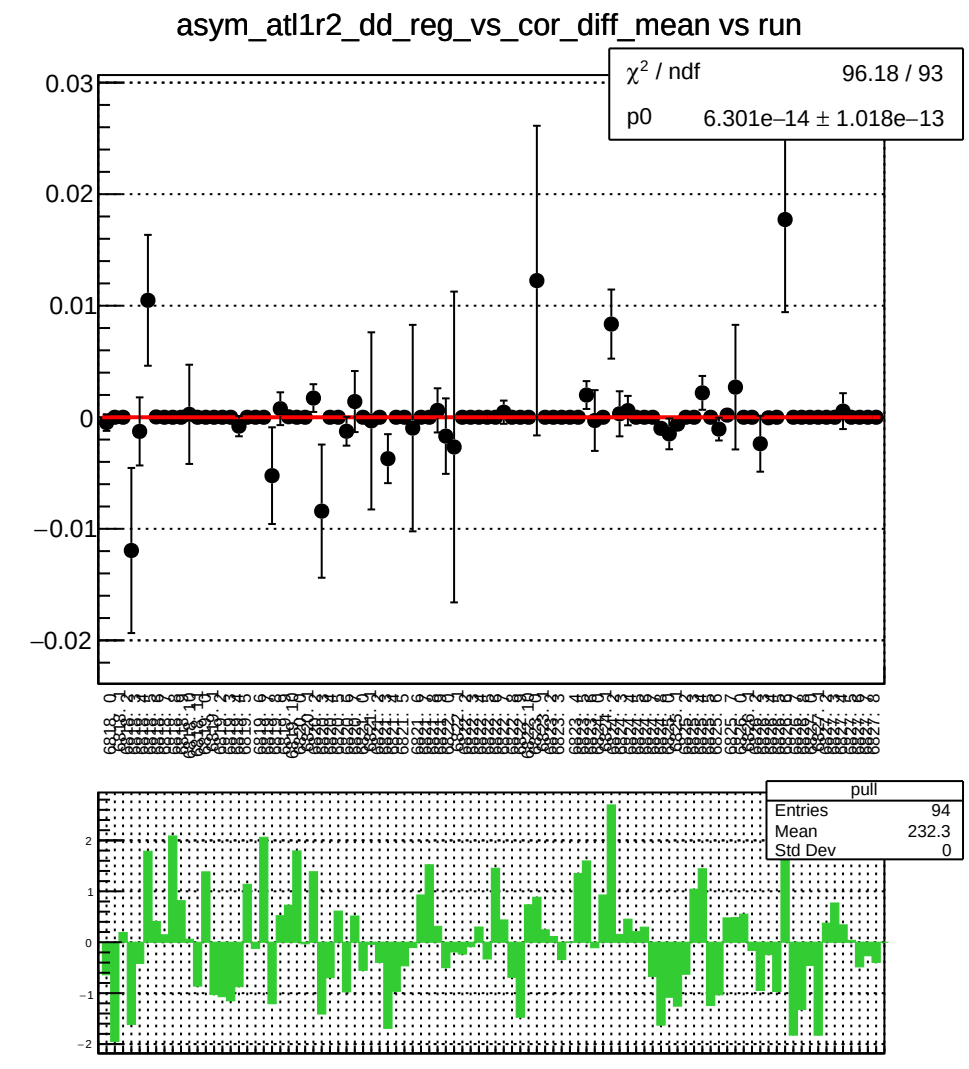

pull1D
Entries 94
Mean −0.001377
Std Dev 0.9564
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

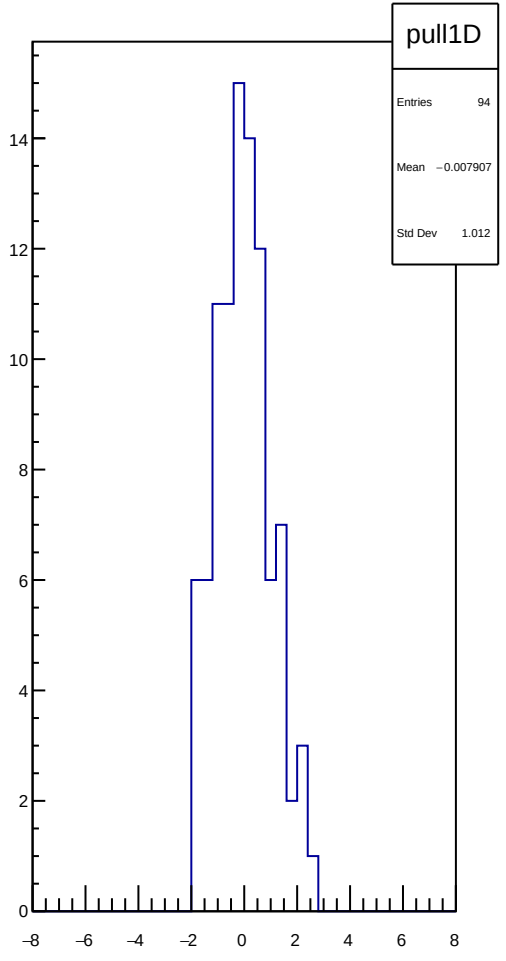

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4801 / 93
p0 3280 ± 2.452
4200
4000
3800
3600
3400
3200
3000

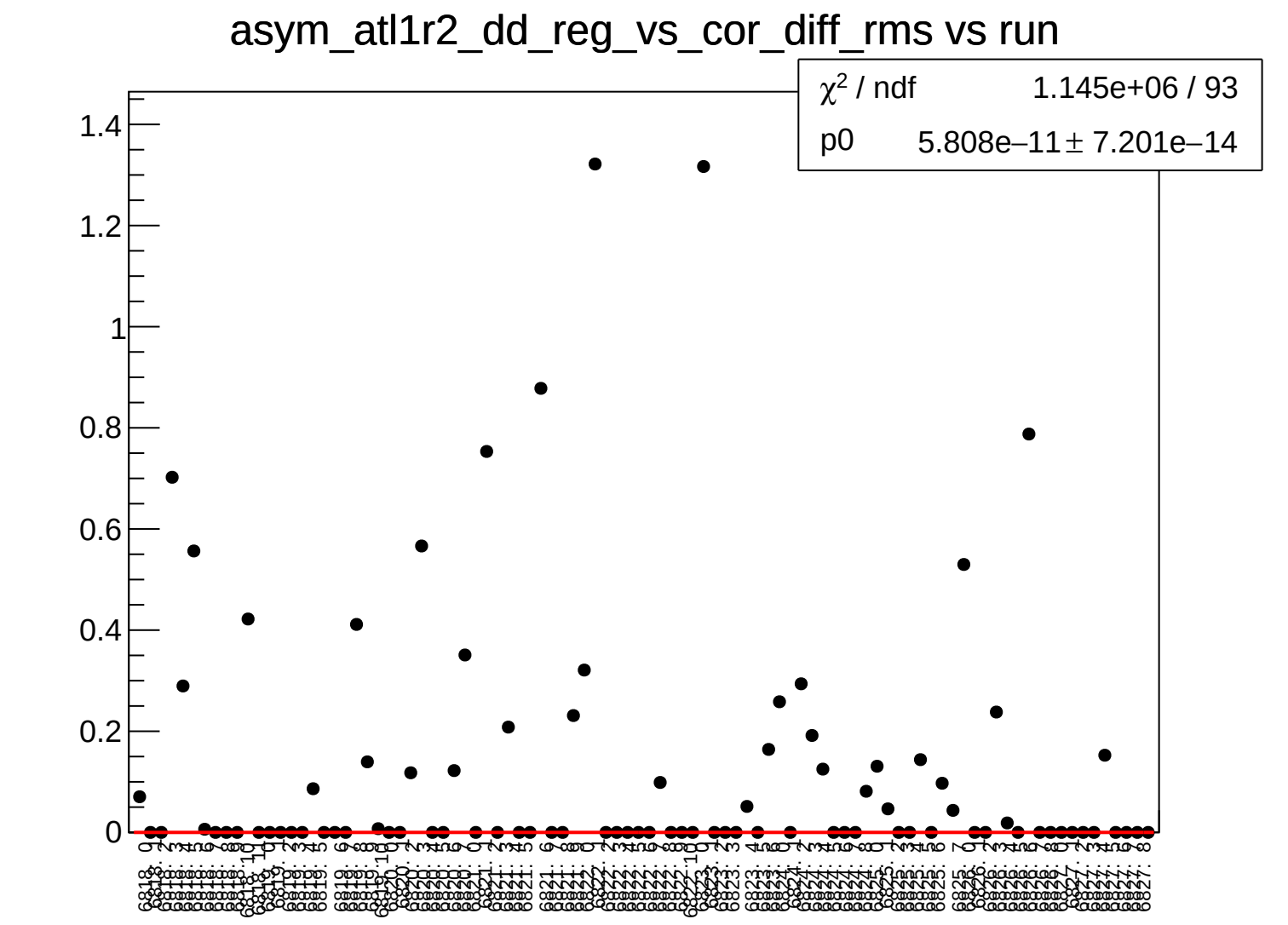

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 92.34 / 93
p0 2188 ± 3722
100
50
0
−50
−100
−150
pull
Entries 94
Mean −8.95
Std Dev 63.39
2
1
0
−1
−2
−3

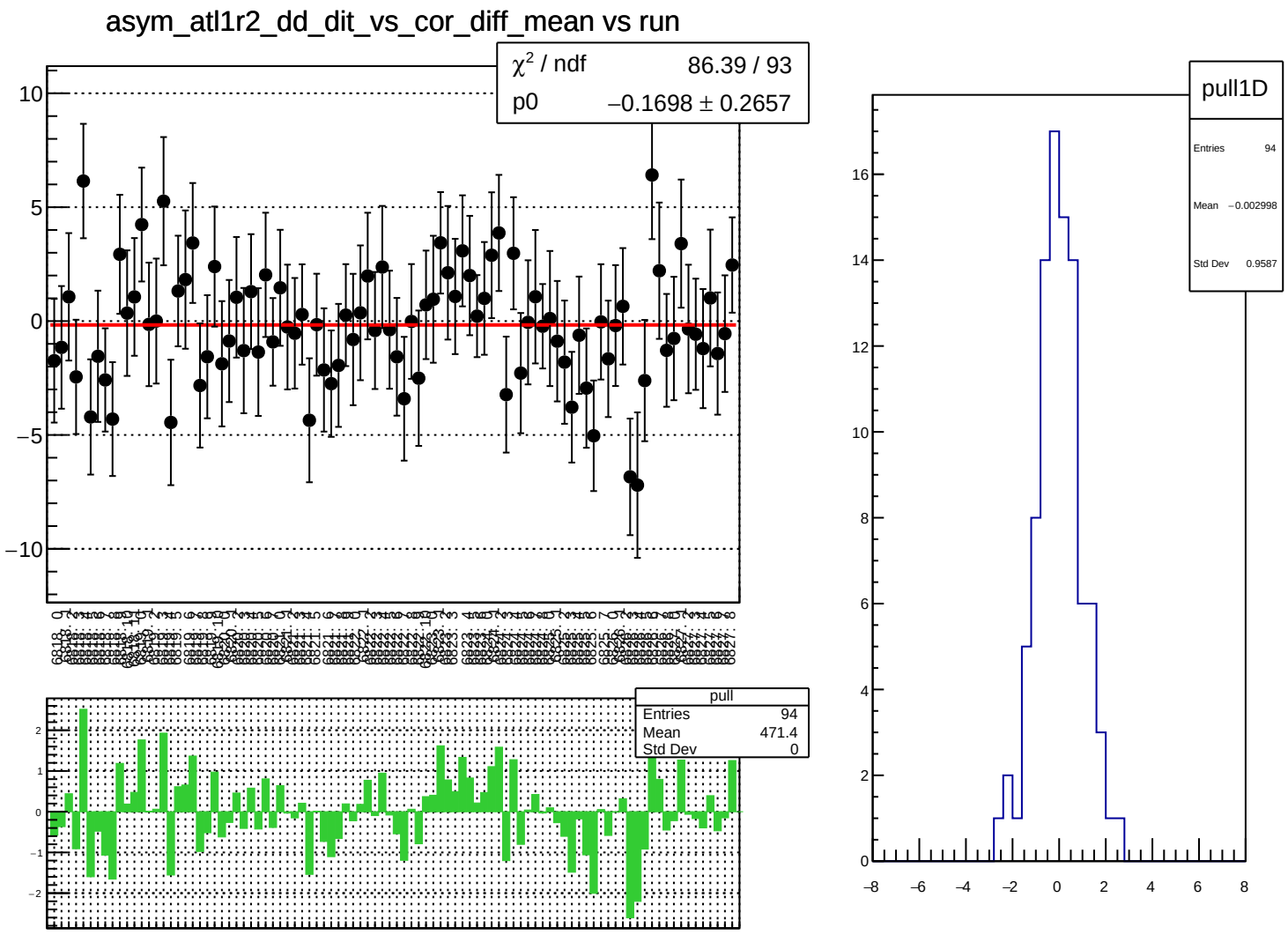

pull1D
Entries 94
Mean 0.01212
Std Dev 0.9911
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

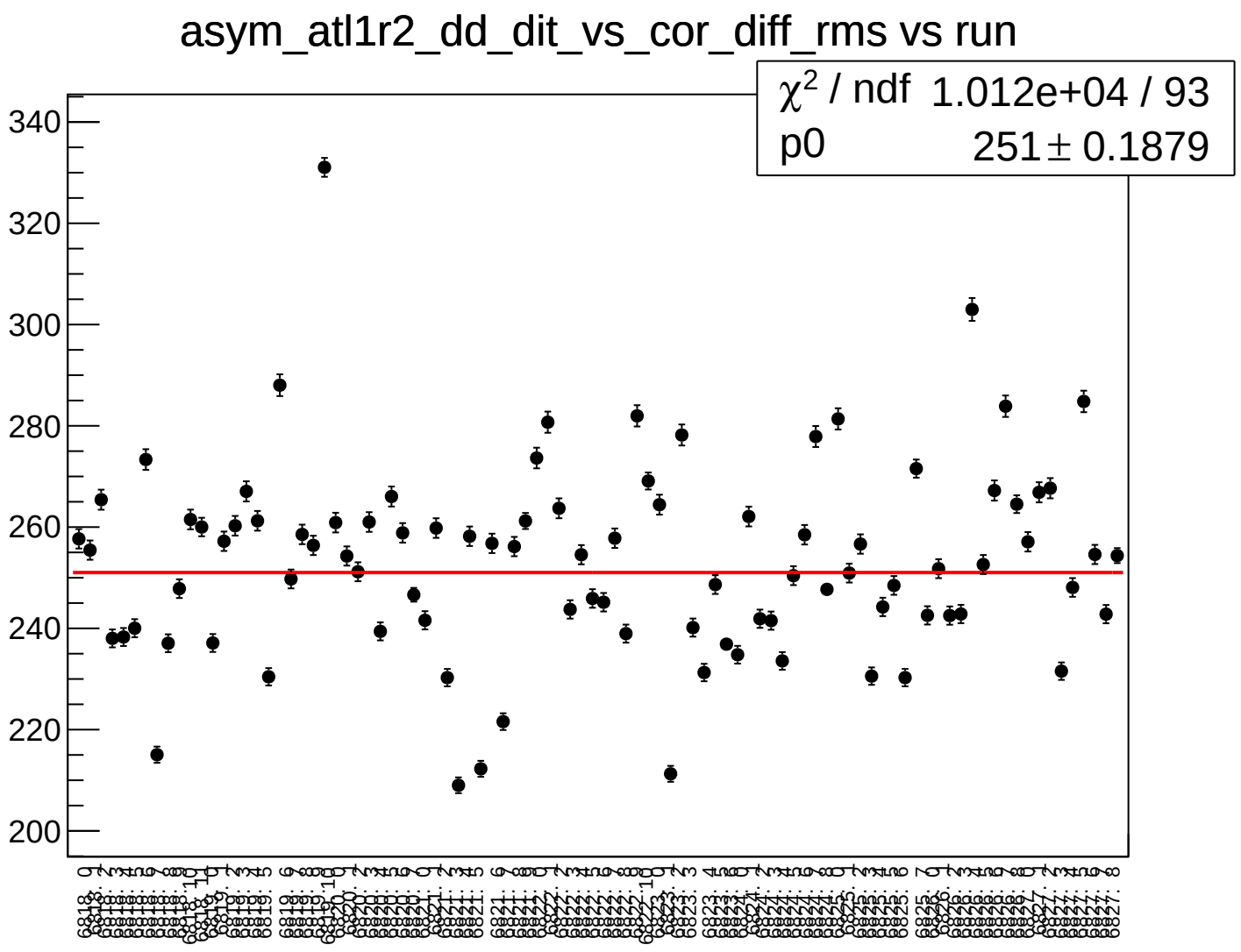

asym_atl1r2_dd_rms vs run
χ² / ndf 2877 / 93
p0 3523 ± 2.632
4200
4000
3800
3600
3400
3200

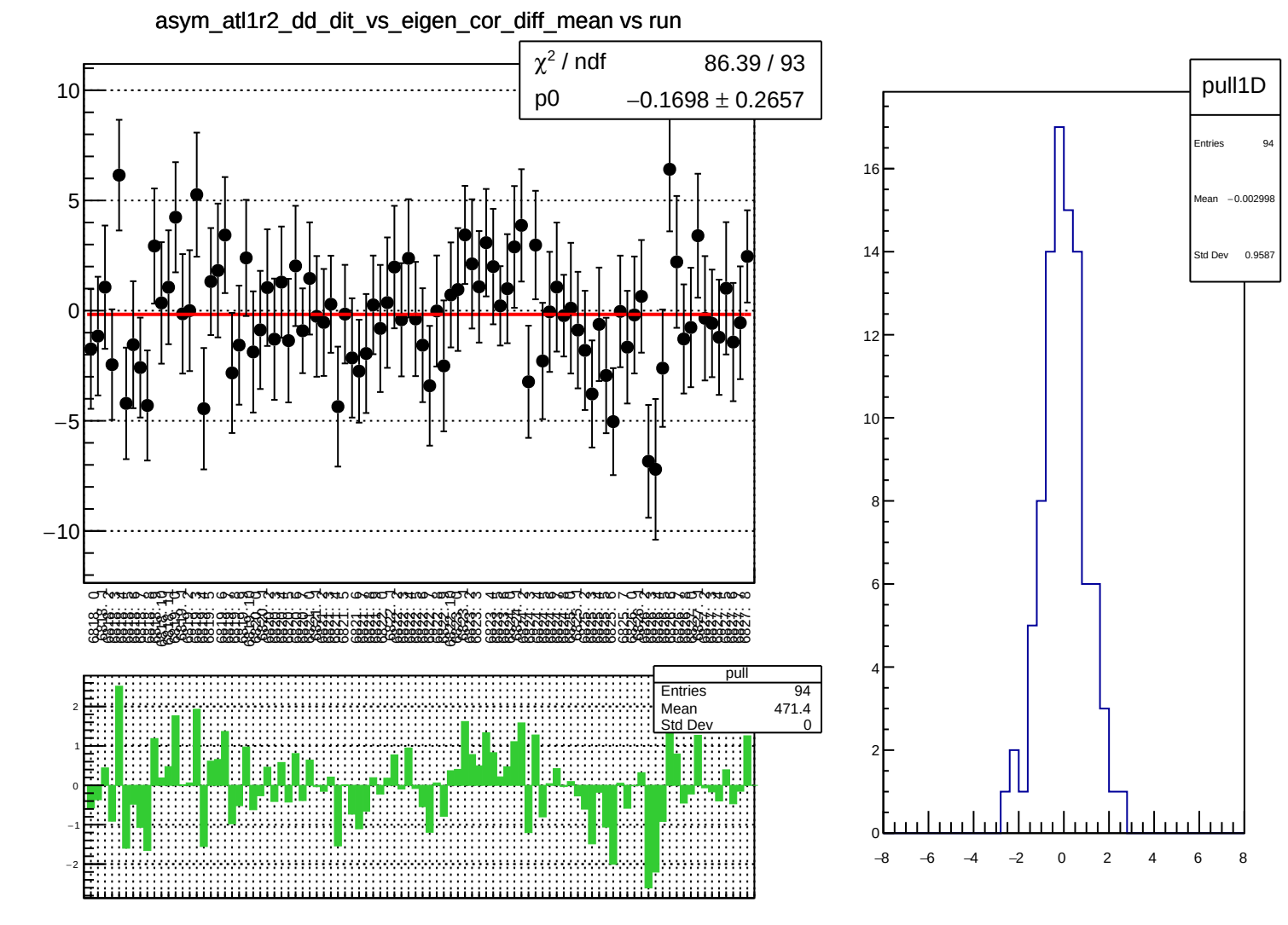

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.18 / 93
p0 6.301e−14 ± 1.018e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 232.3
Std Dev 0
2
1
0
−1
−2

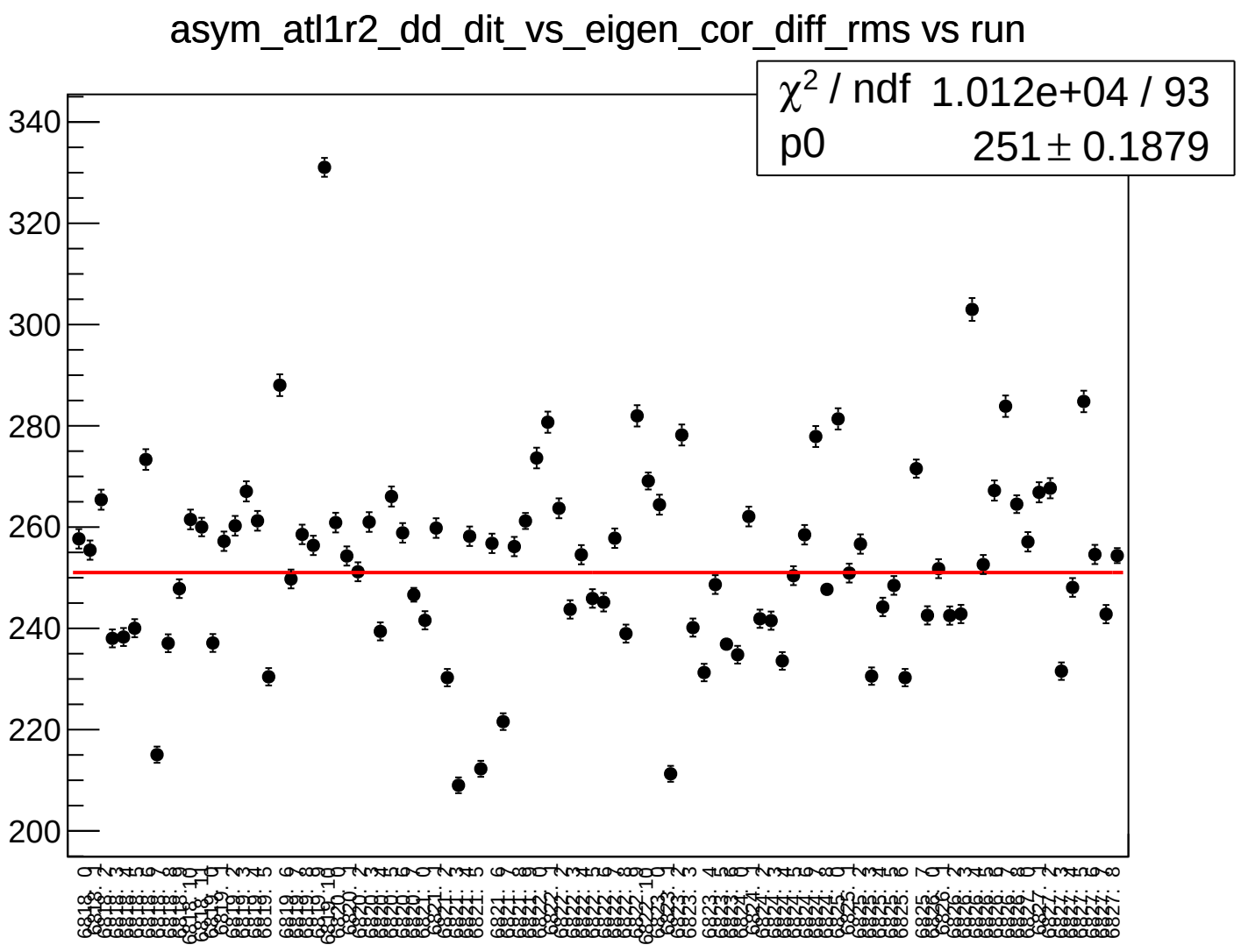

pull1D
Entries 94
Mean −0.007907
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

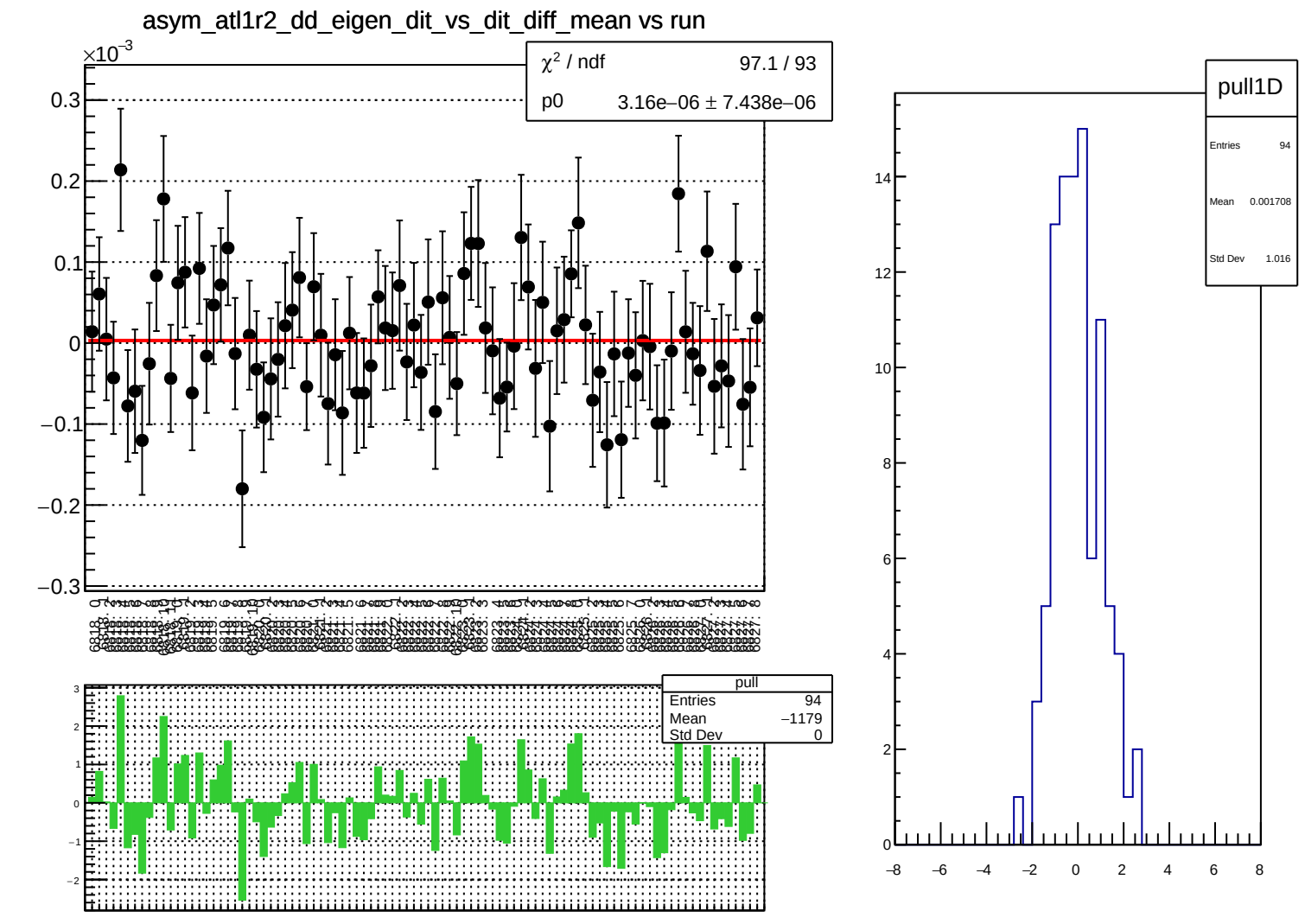

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 93
p0 5.808e−11 ± 7.201e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

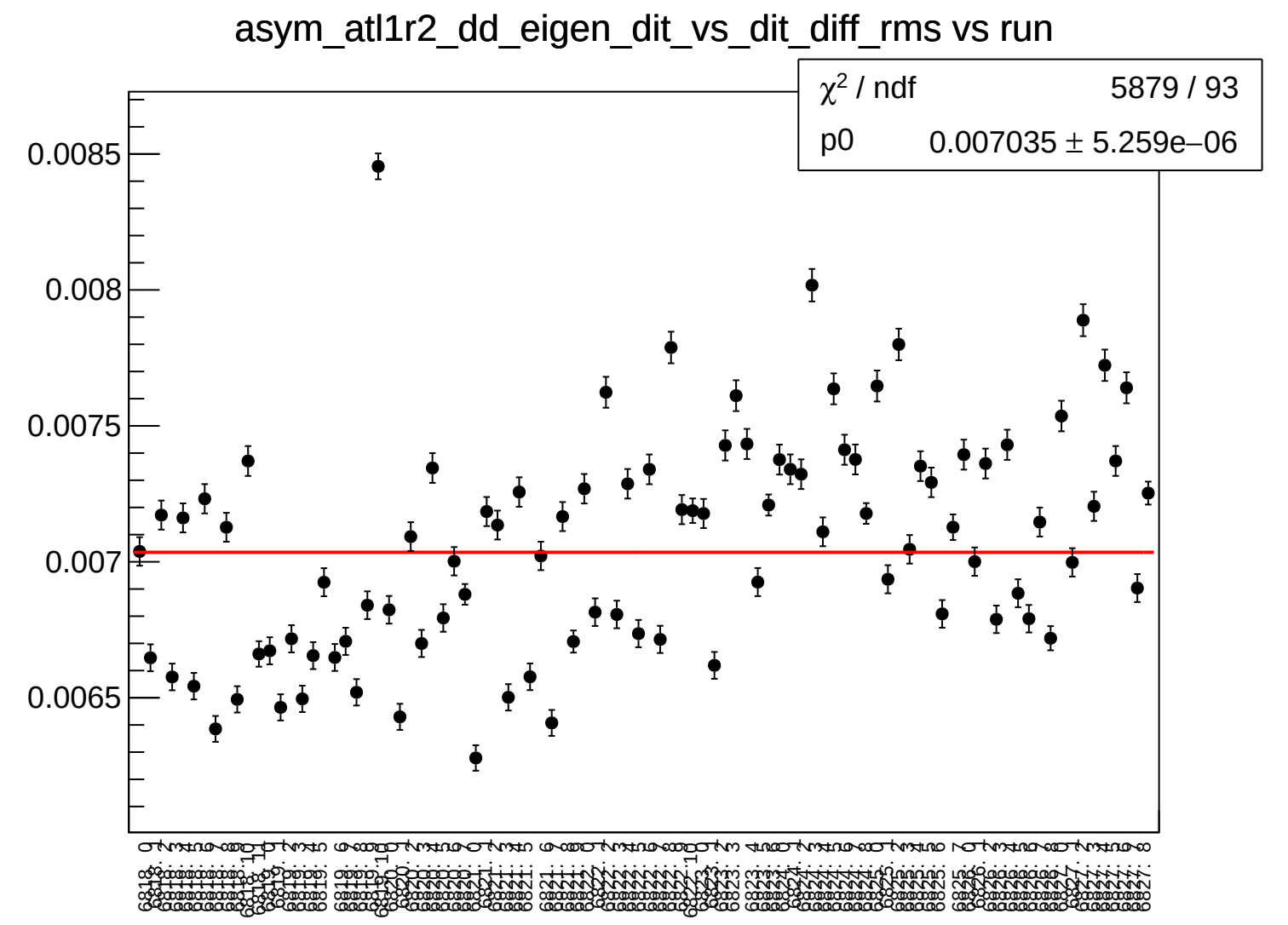

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 93
p0 −0.1698 ± 0.2657
pull
Entries 94
Mean 471.4
Std Dev 0
pull1D
Entries 94
Mean −0.002998
Std Dev 0.9587

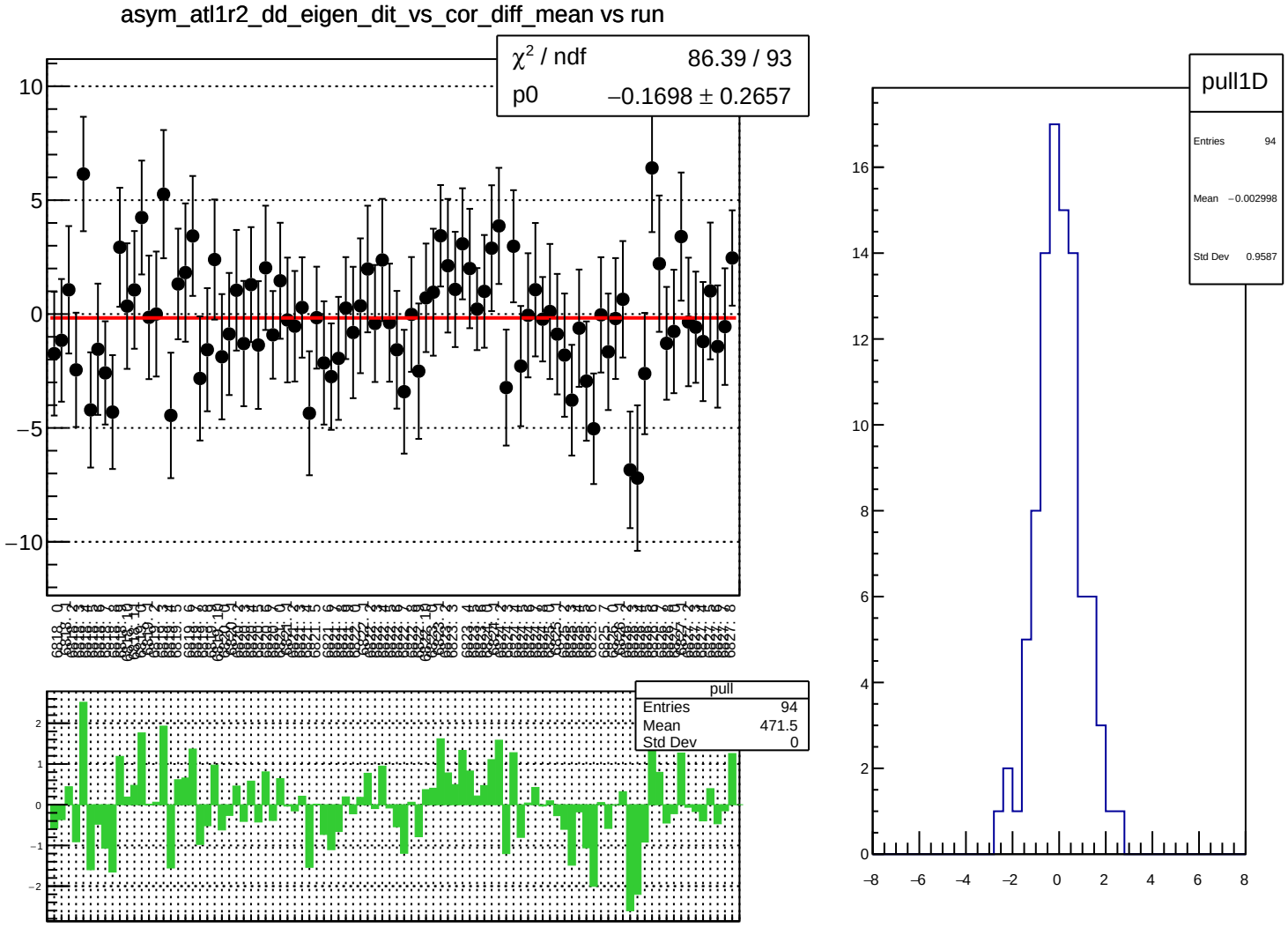

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 93
p0 251 ± 0.1879
340
320
300
280
260
240
220
200

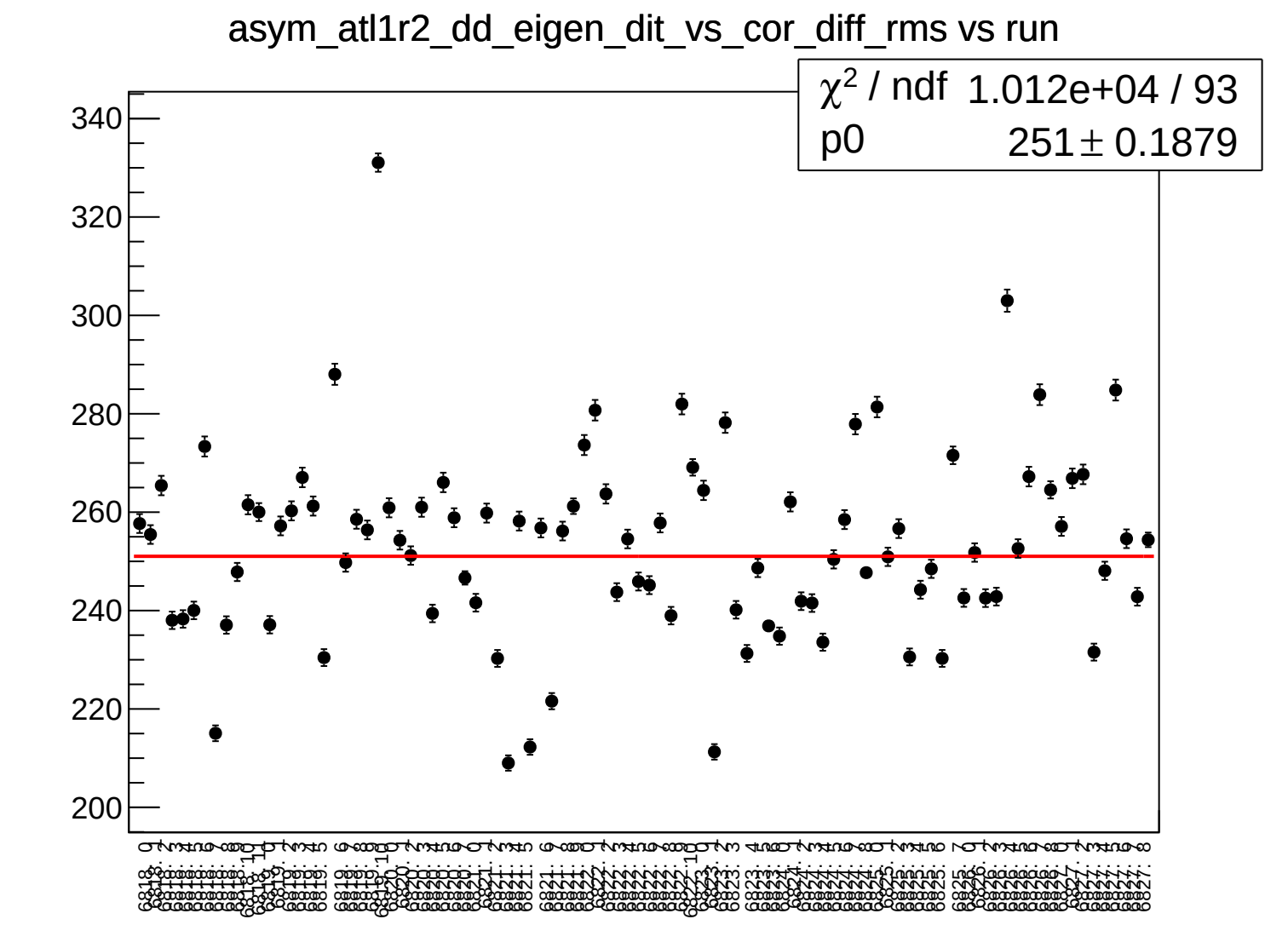

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 93
p0 −0.1698 ± 0.2657
pull
Entries 94
Mean 471.4
Std Dev 0
pull1D
Entries 94
Mean −0.002998
Std Dev 0.9587

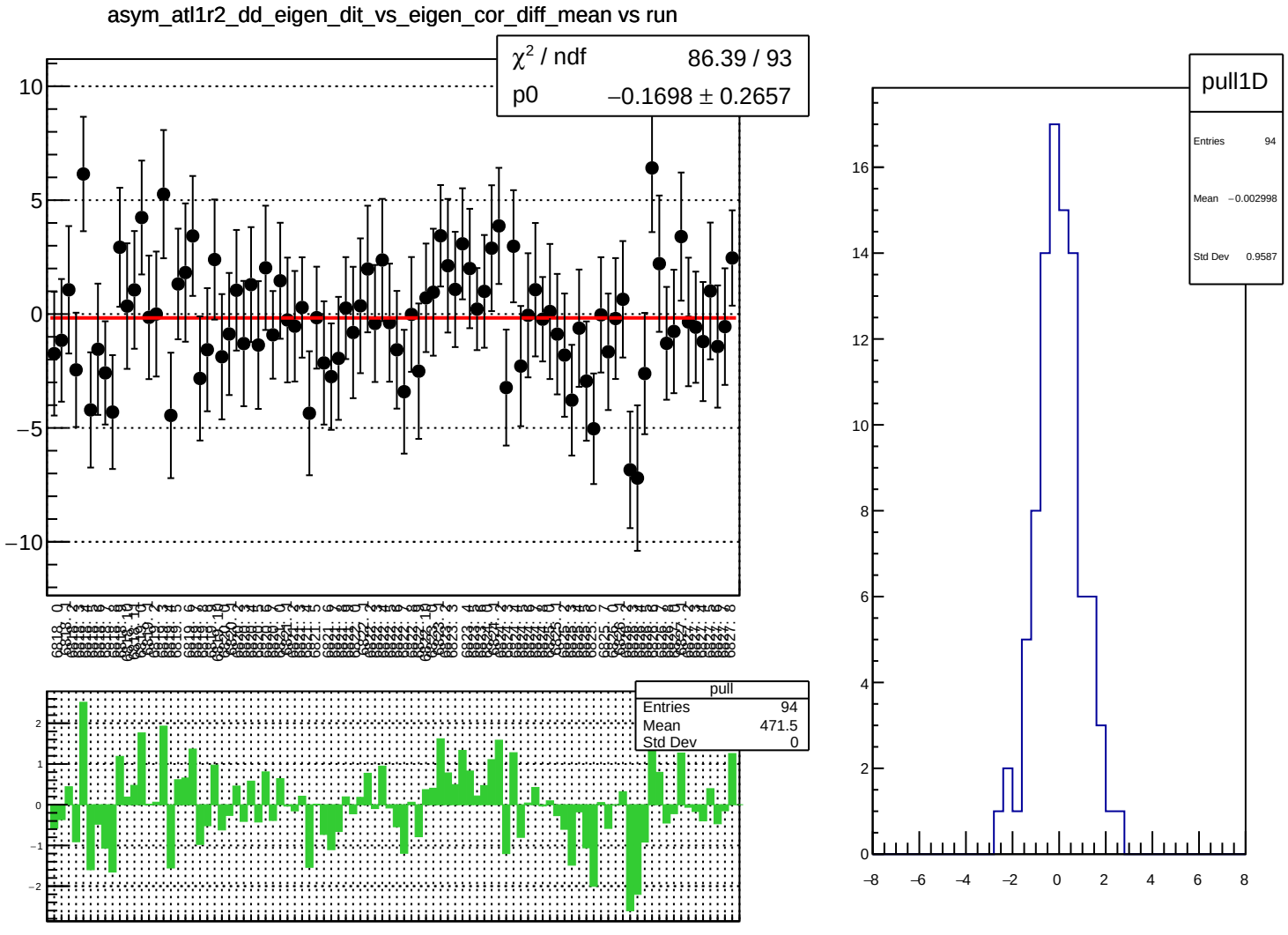

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 93
p0 251 ± 0.1879
340
320
300
280
260
240
220
200

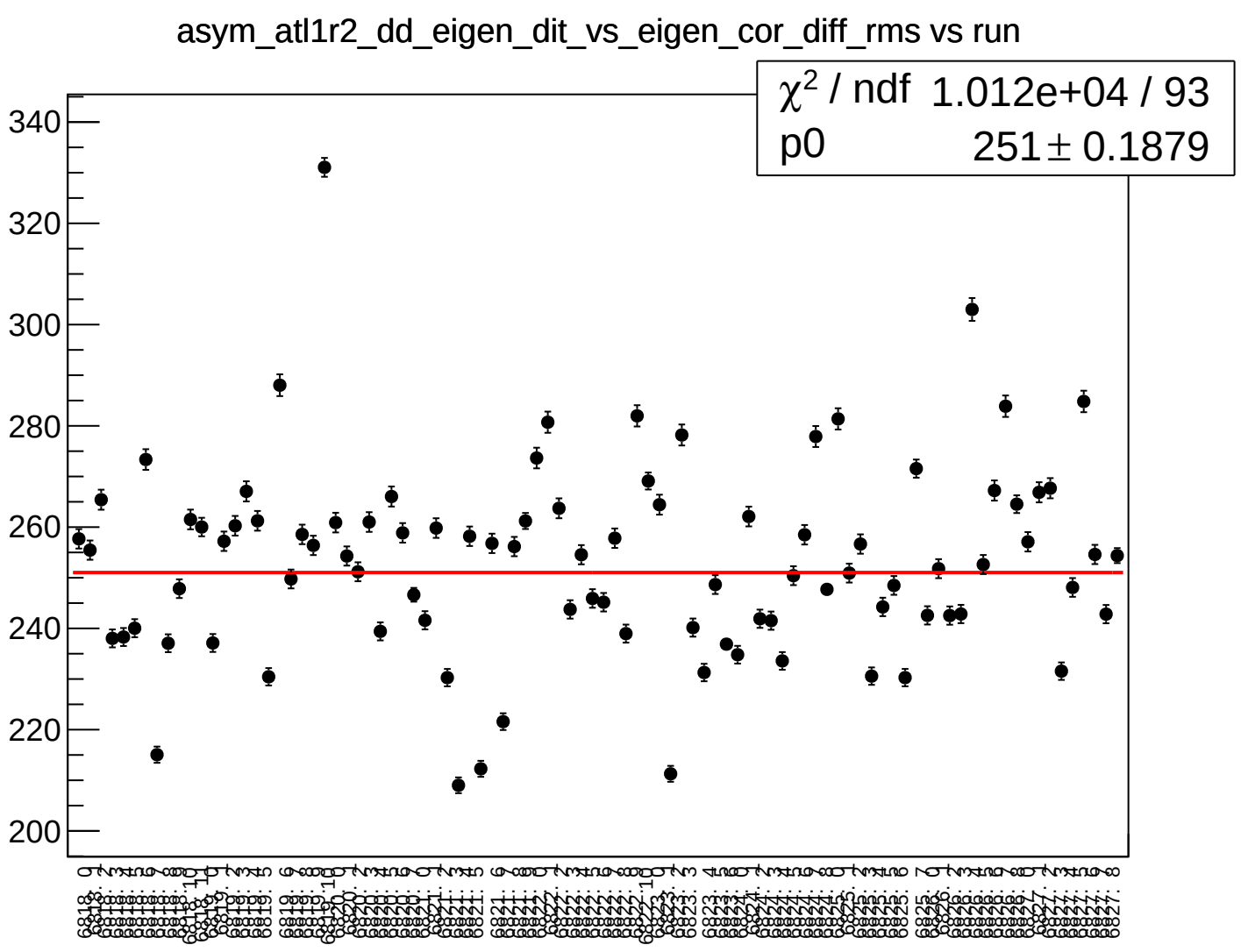

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.1 / 93
p0 3.16e−06 ± 7.438e−06
pull
Entries 94
Mean −1179
Std Dev 0
pull1D
Entries 94
Mean 0.001708
Std Dev 1.016

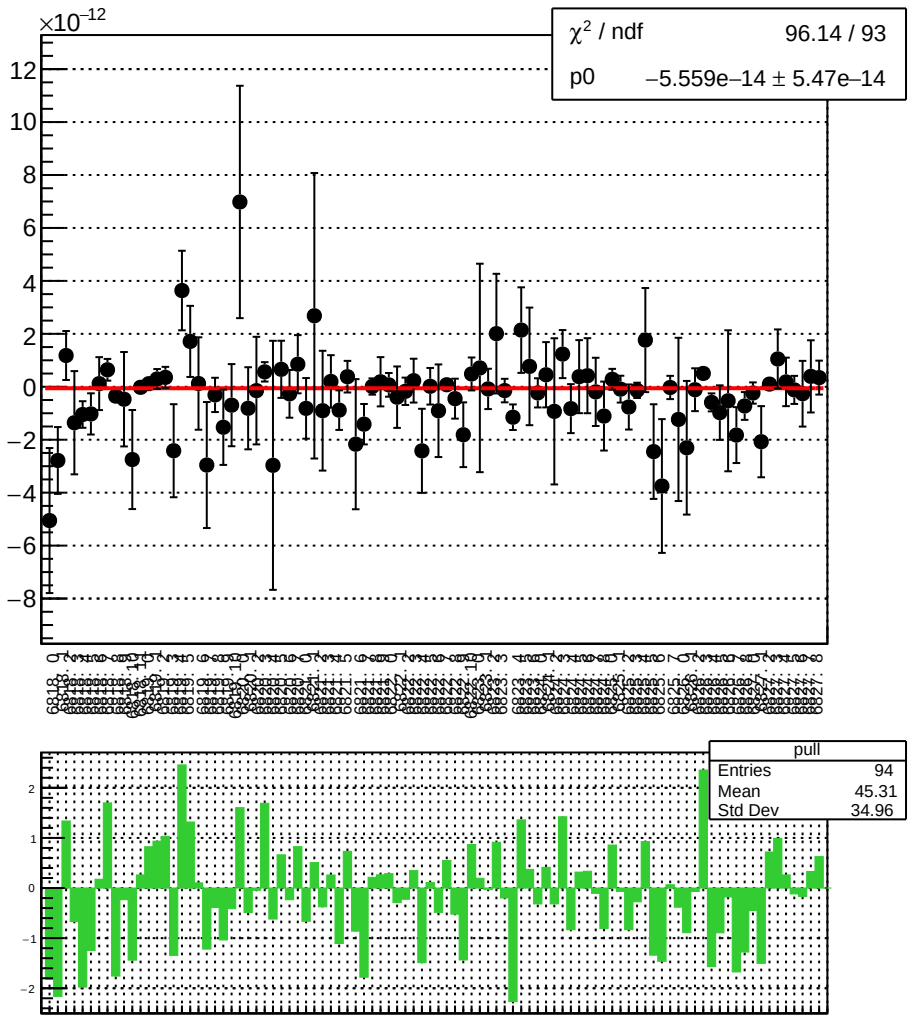

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5879 / 93
p0 0.007035 ± 5.259e−06
0.0085
0.008
0.0075
0.007
0.0065

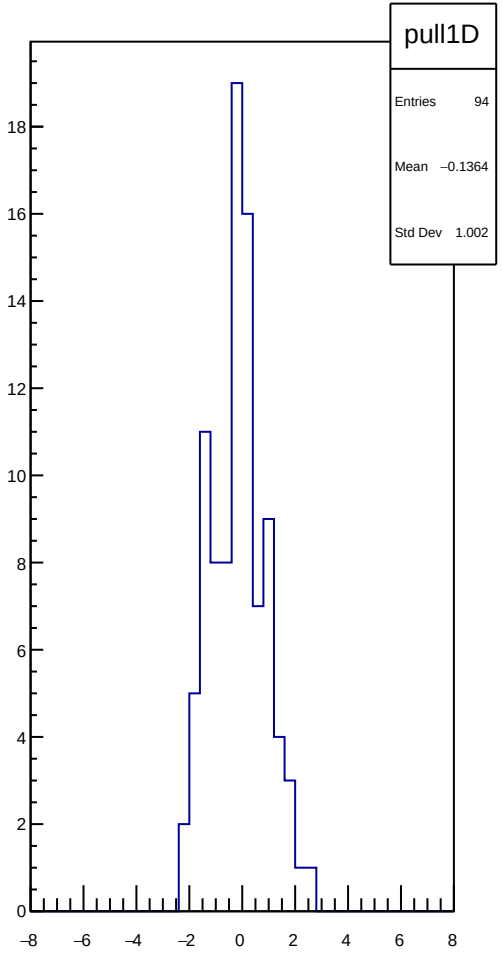

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.39 / 93
p0 −0.1698 ± 0.2657
pull
Entries 94
Mean 471.5
Std Dev 0
pull1D
Entries 94
Mean −0.002998
Std Dev 0.9587

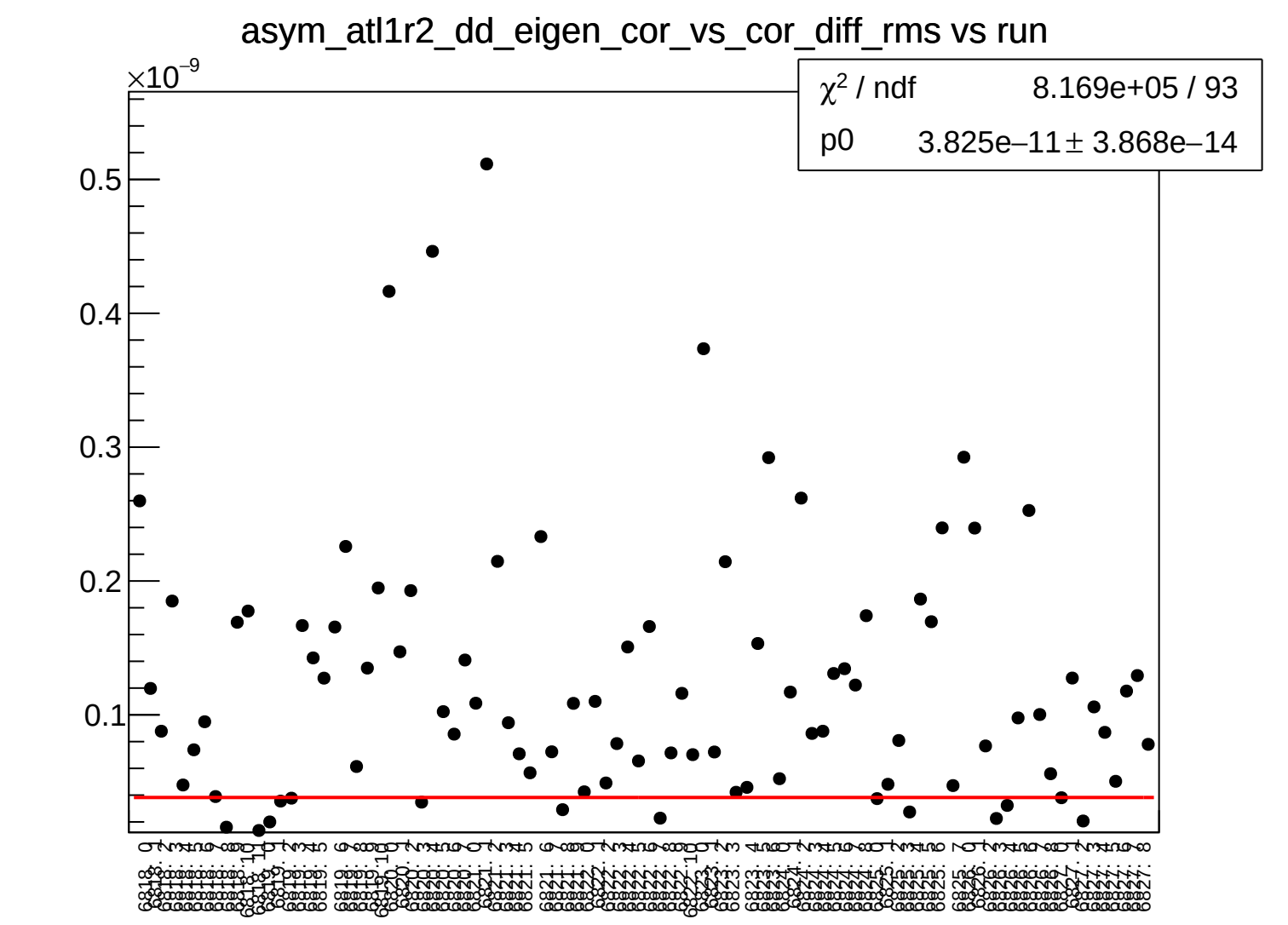

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 93
p0 251 ± 0.1879
340
320
300
280
260
240
220
200

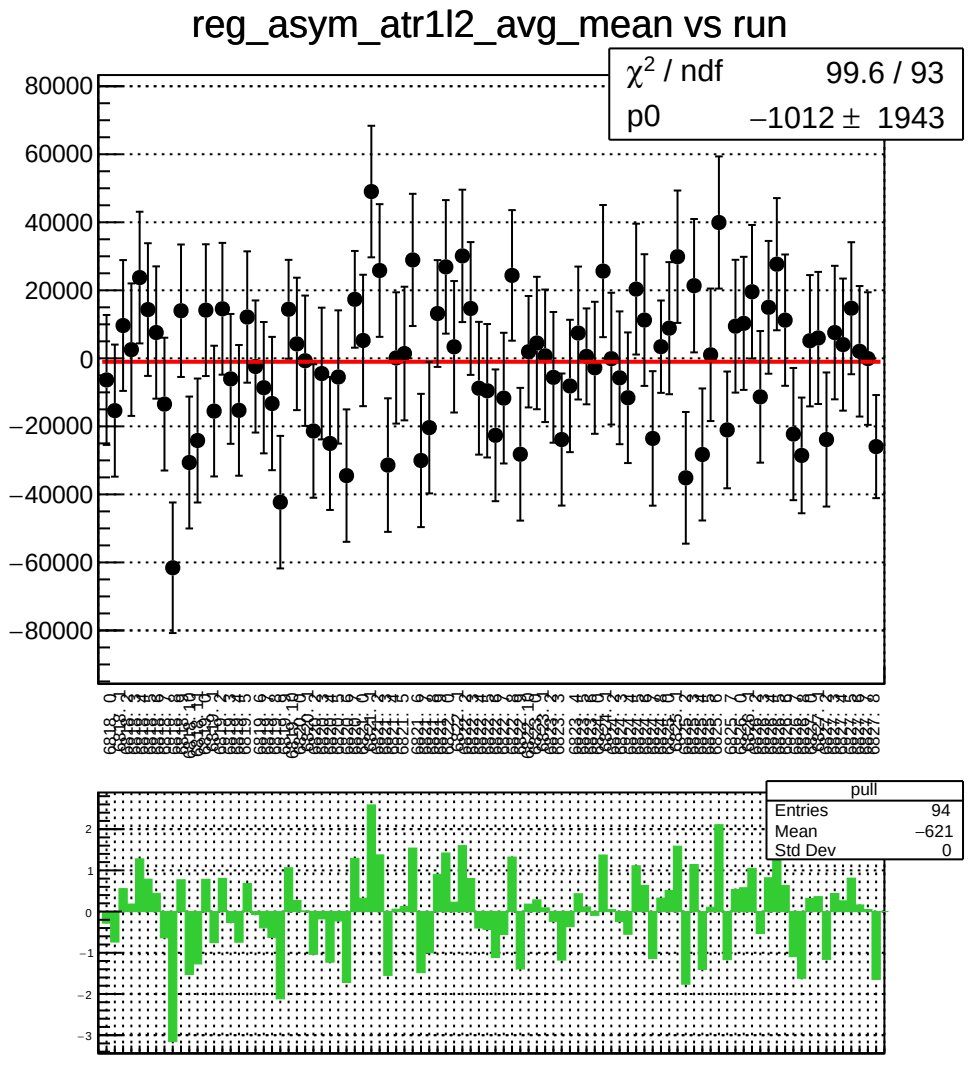

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.39 / 93
p0 −0.1698 ± 0.2657
pull
Entries 94
Mean 471.5
Std Dev 0
pull1D
Entries 94
Mean −0.002998
Std Dev 0.9587

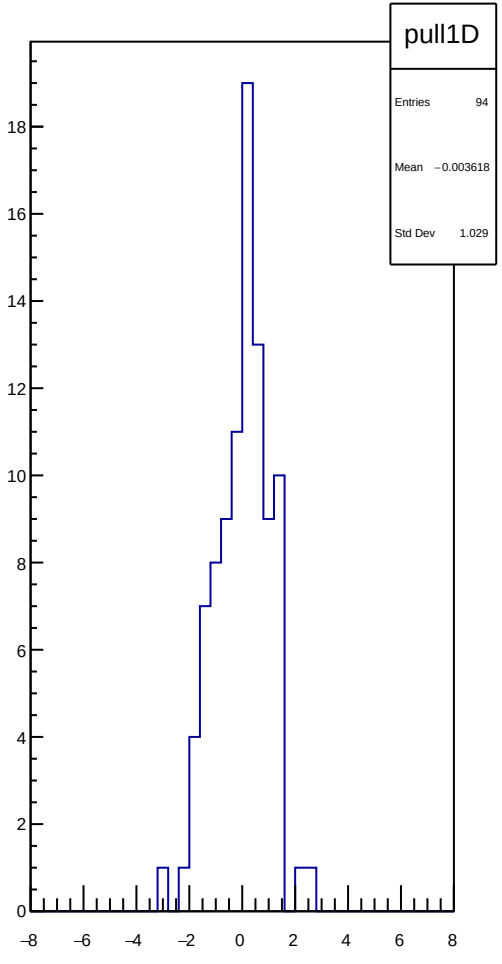

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+04 / 93
p0 251 ± 0.1879
340
320
300
280
260
240
220
200

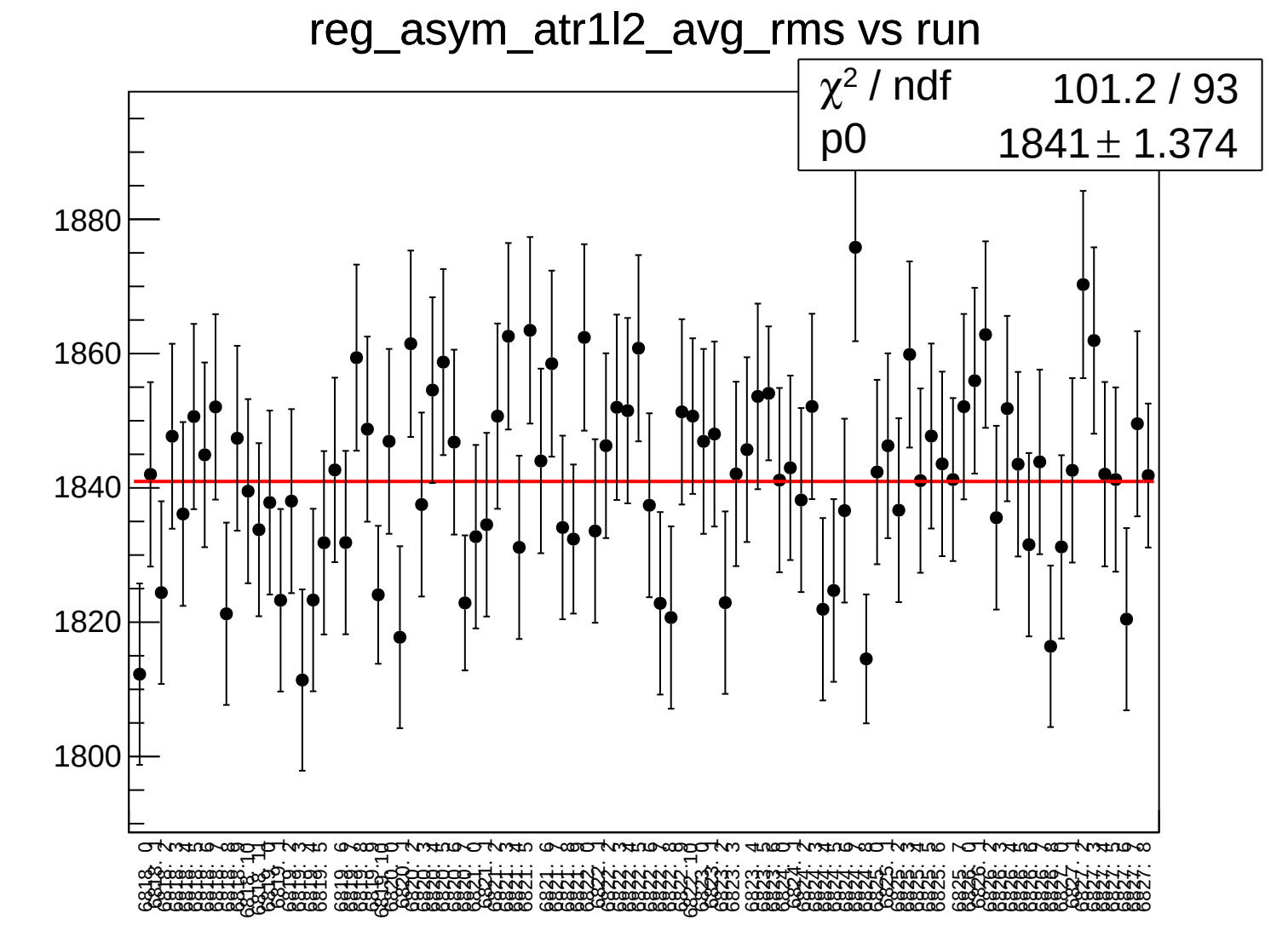

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.14 / 93
p0 −5.559e−14 ± 5.47e−14
pull
Entries 94
Mean 45.31
Std Dev 34.96

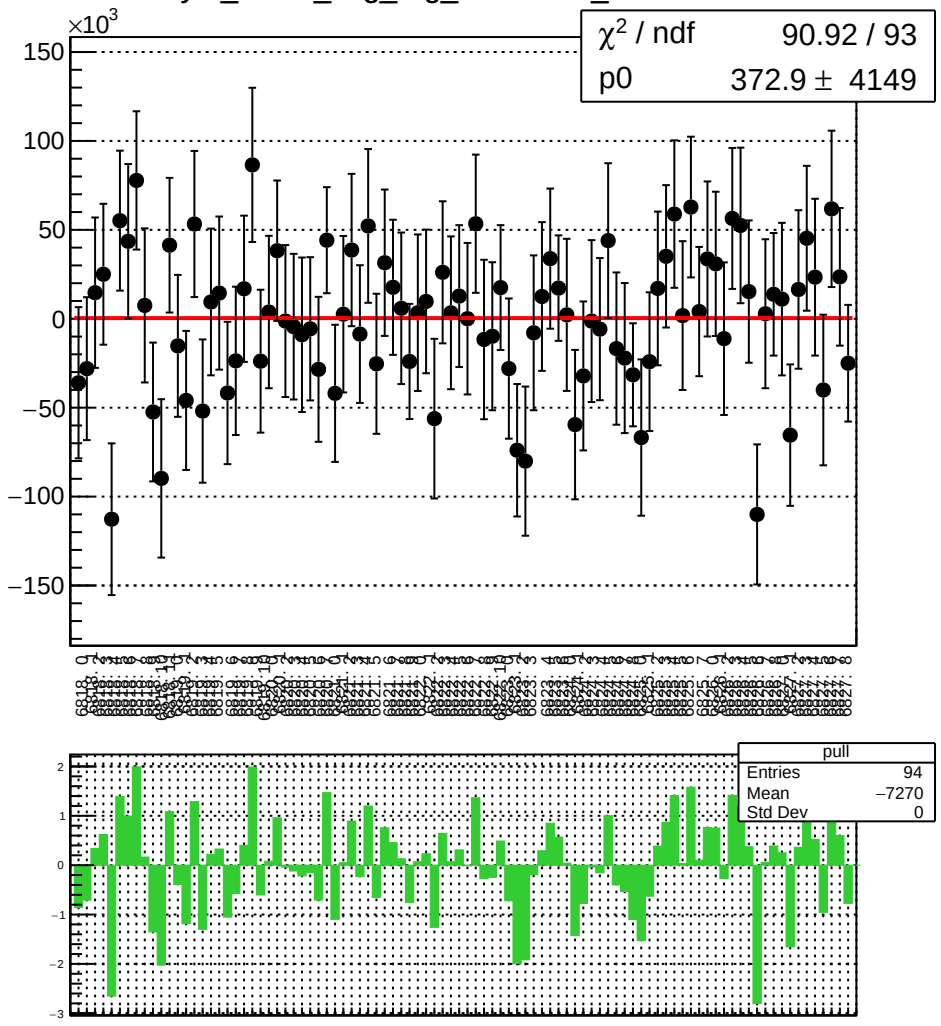

pull1D
Entries 94
Mean −0.1364
Std Dev 1.002

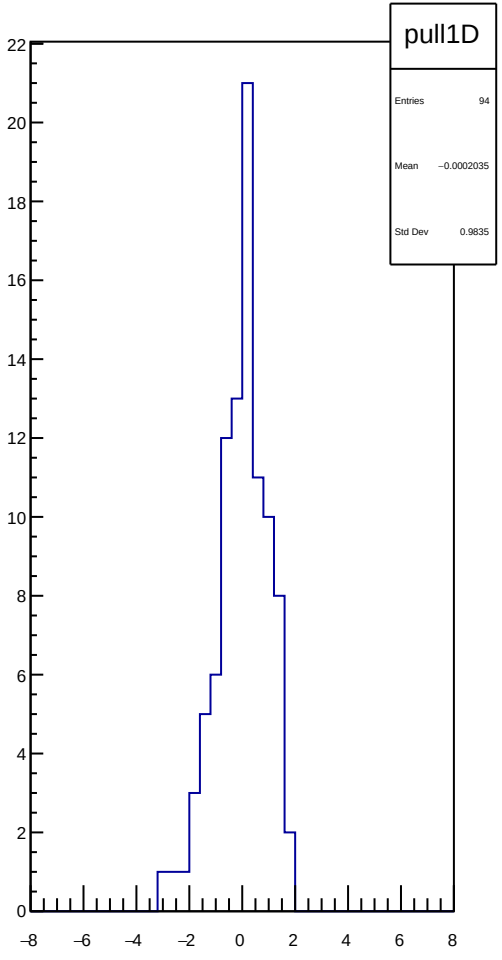

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.169e+05 / 93
p0 3.825e−11 ± 3.868e−14
0.5
0.4
0.3
0.2
0.1

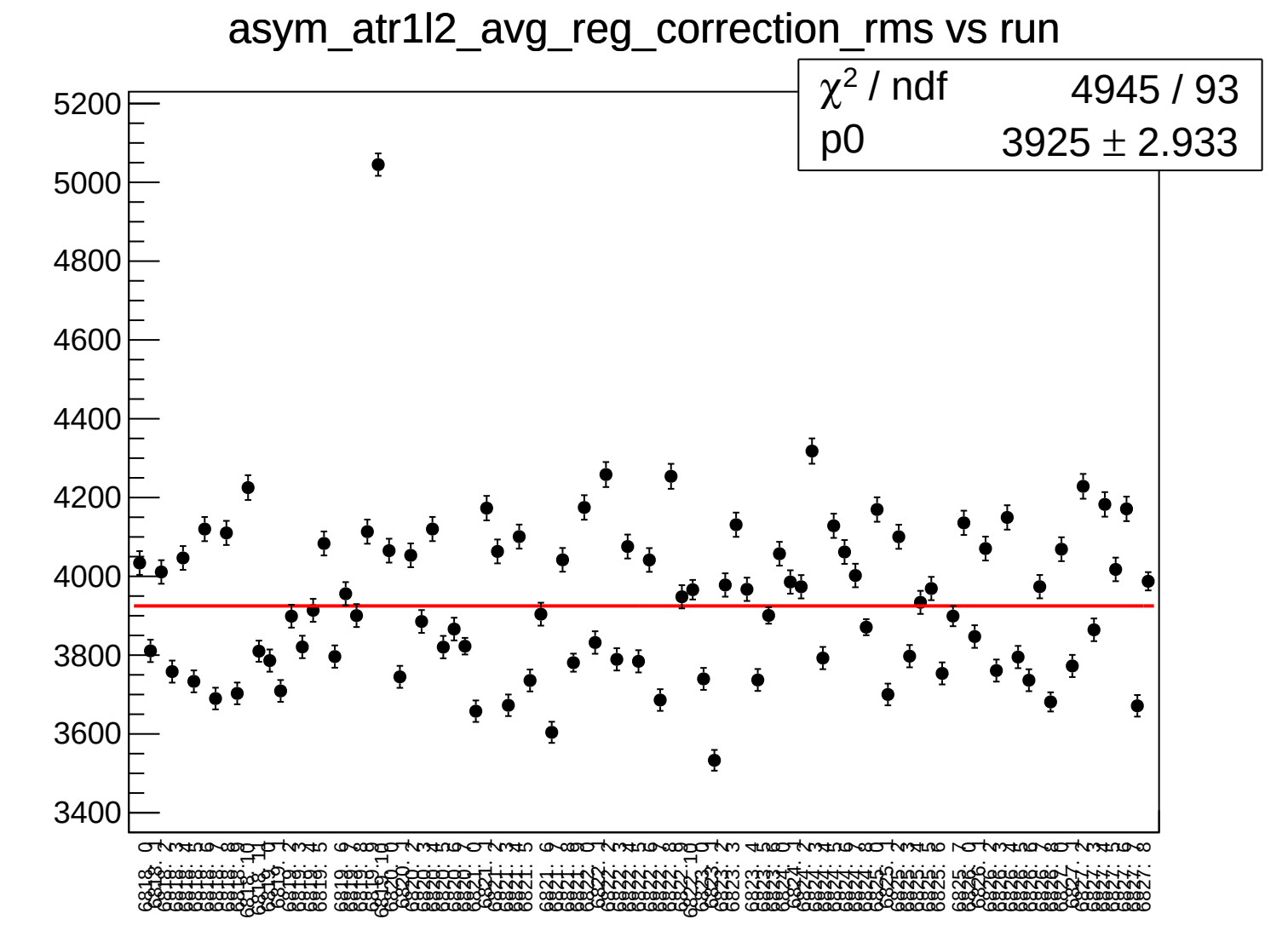

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 99.6 / 93
p0 −1012 ± 1943
pull
Entries 94
Mean −621
Std Dev 0

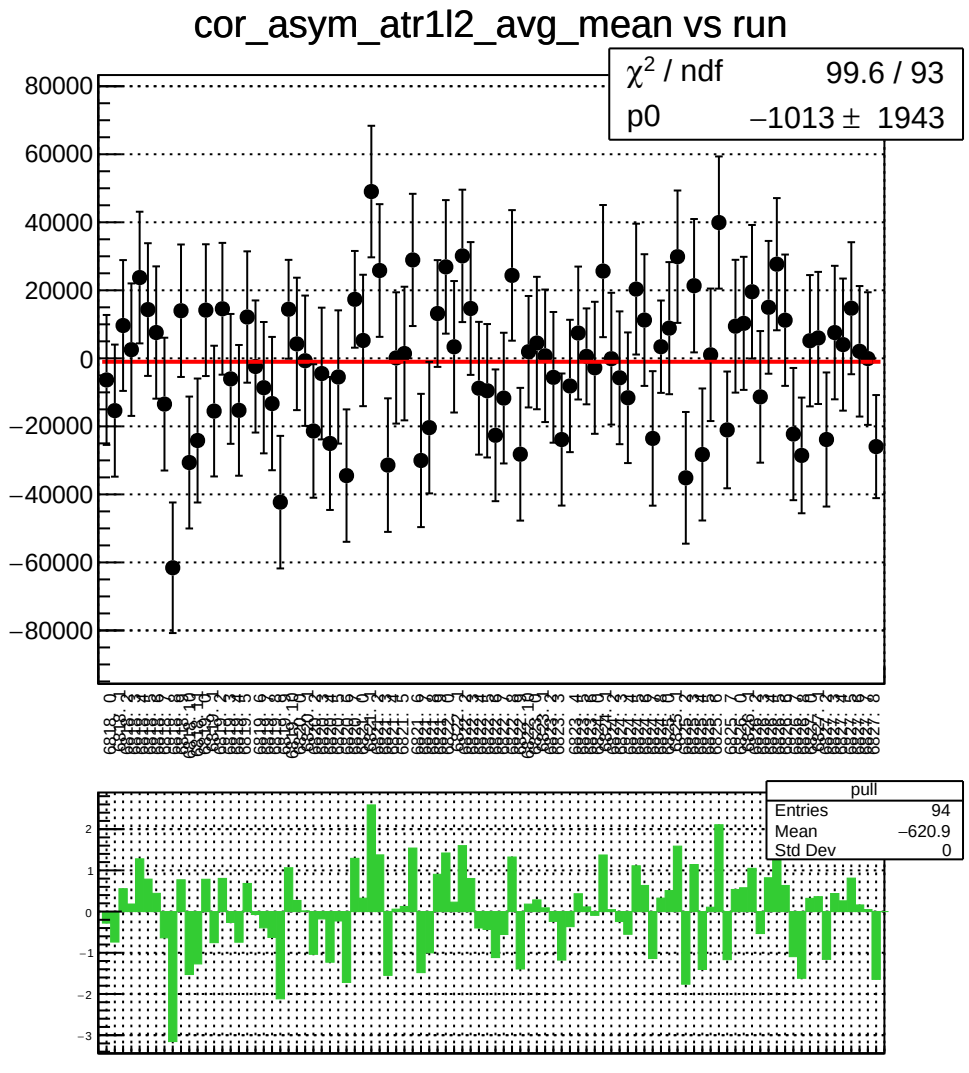

pull1D
Entries 94
Mean −0.003618
Std Dev 1.029

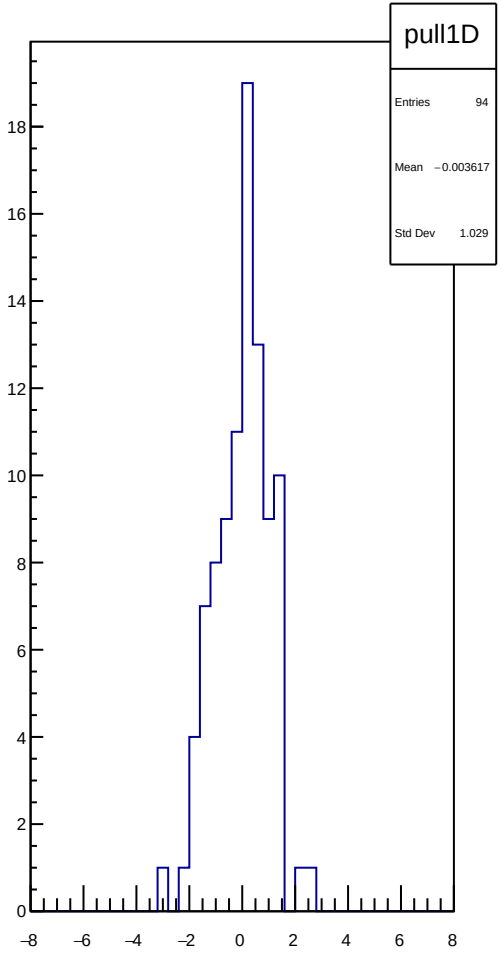

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 101.2 / 93
p0 1841 ± 1.374
1880
1860
1840
1820
1800

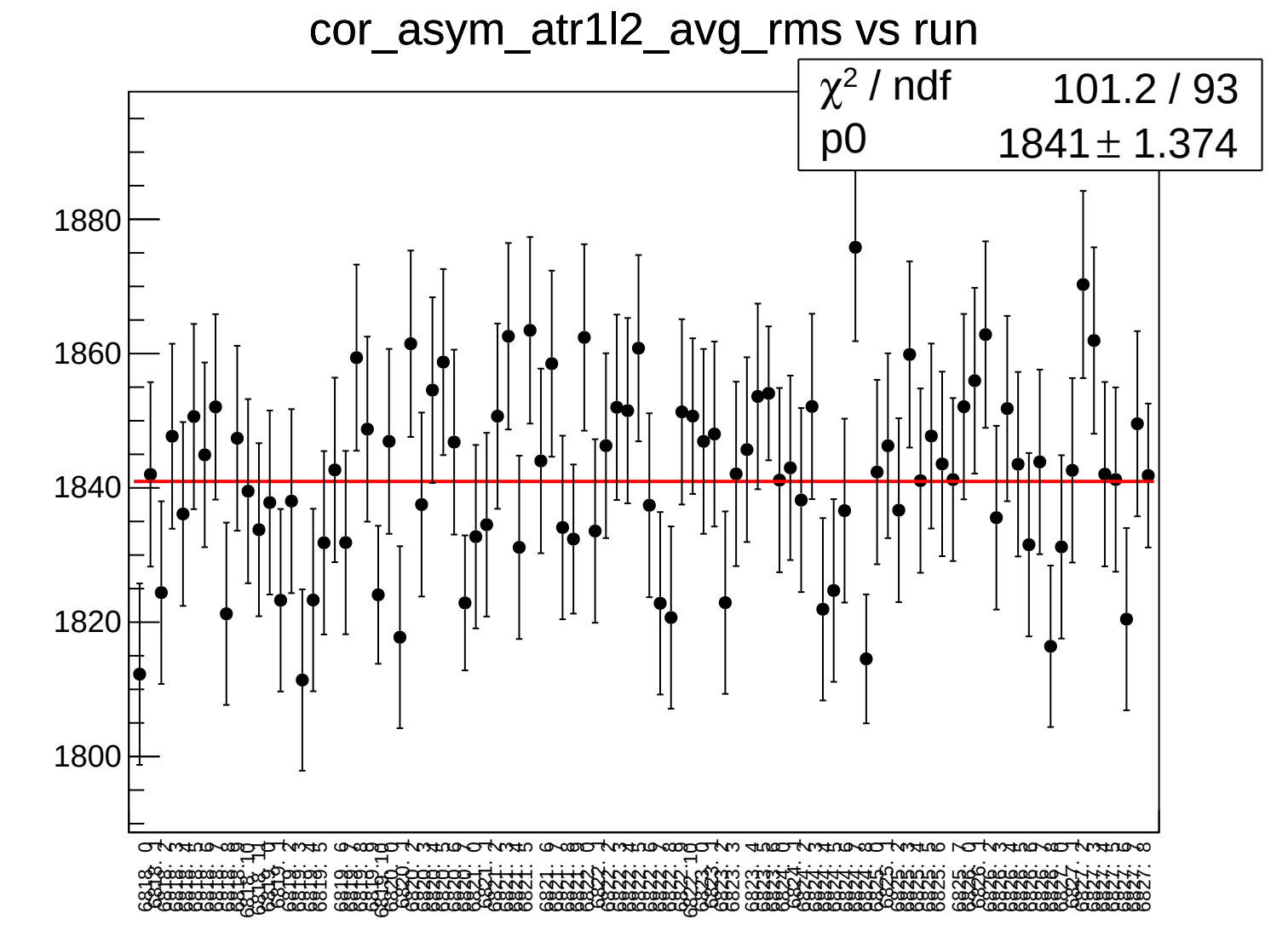

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.92 / 93
p0 372.9 ± 4149
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −7270
Std Dev 0
2
1
0
−1
−2
−3

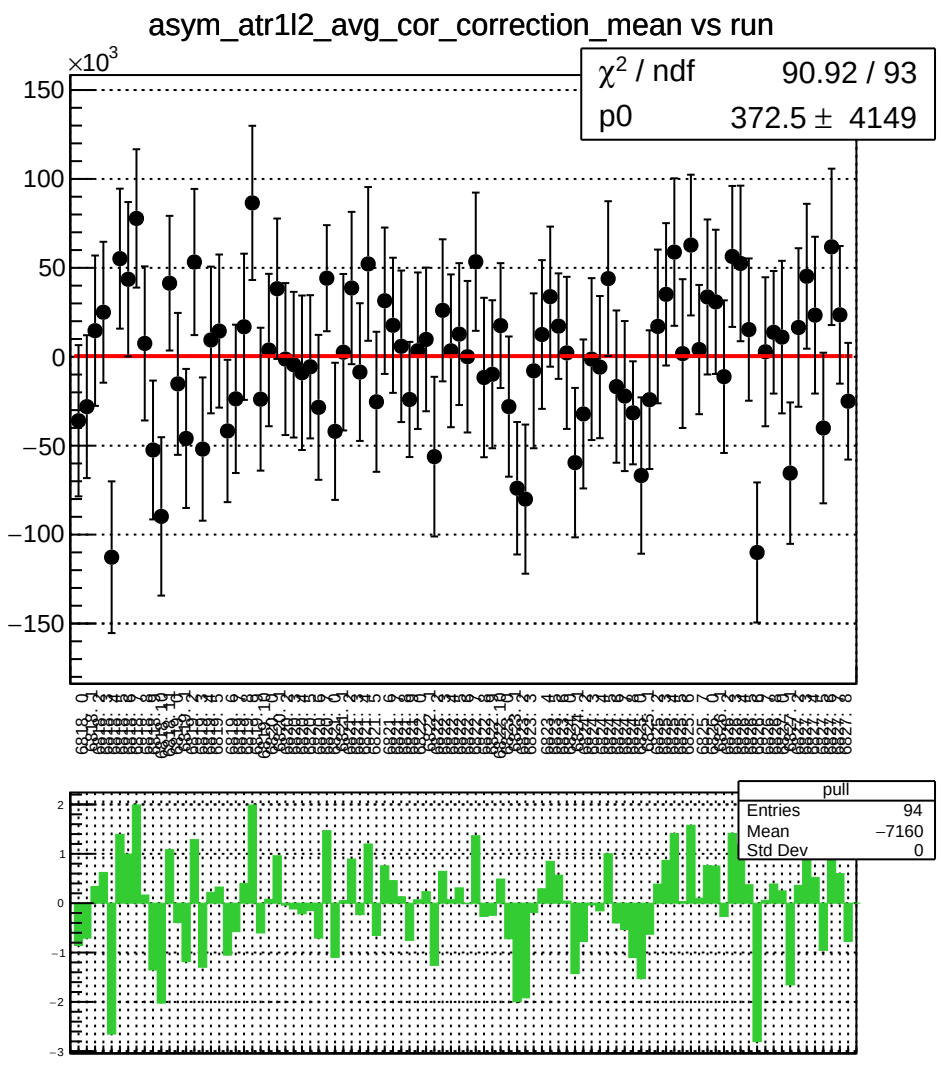

pull1D
Entries 94
Mean −0.0002035
Std Dev 0.9835
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

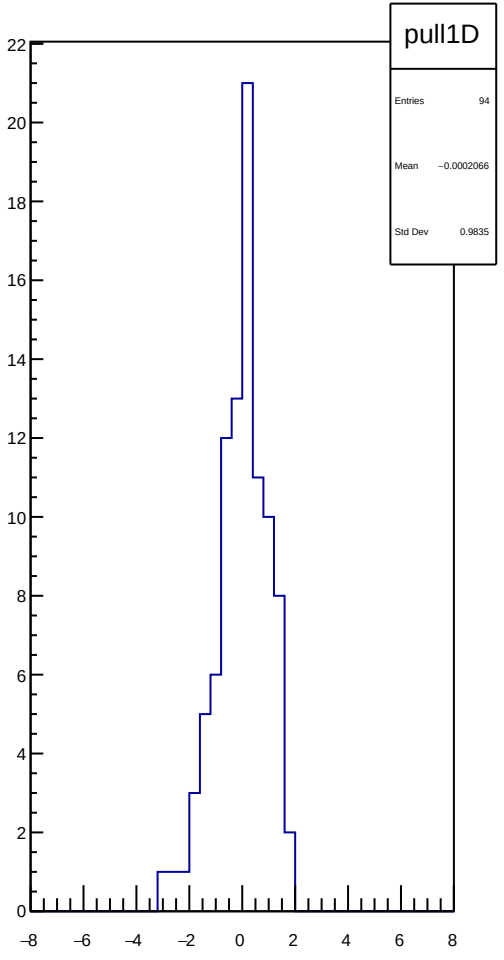

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4945 / 93
p0 3925 ± 2.933
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

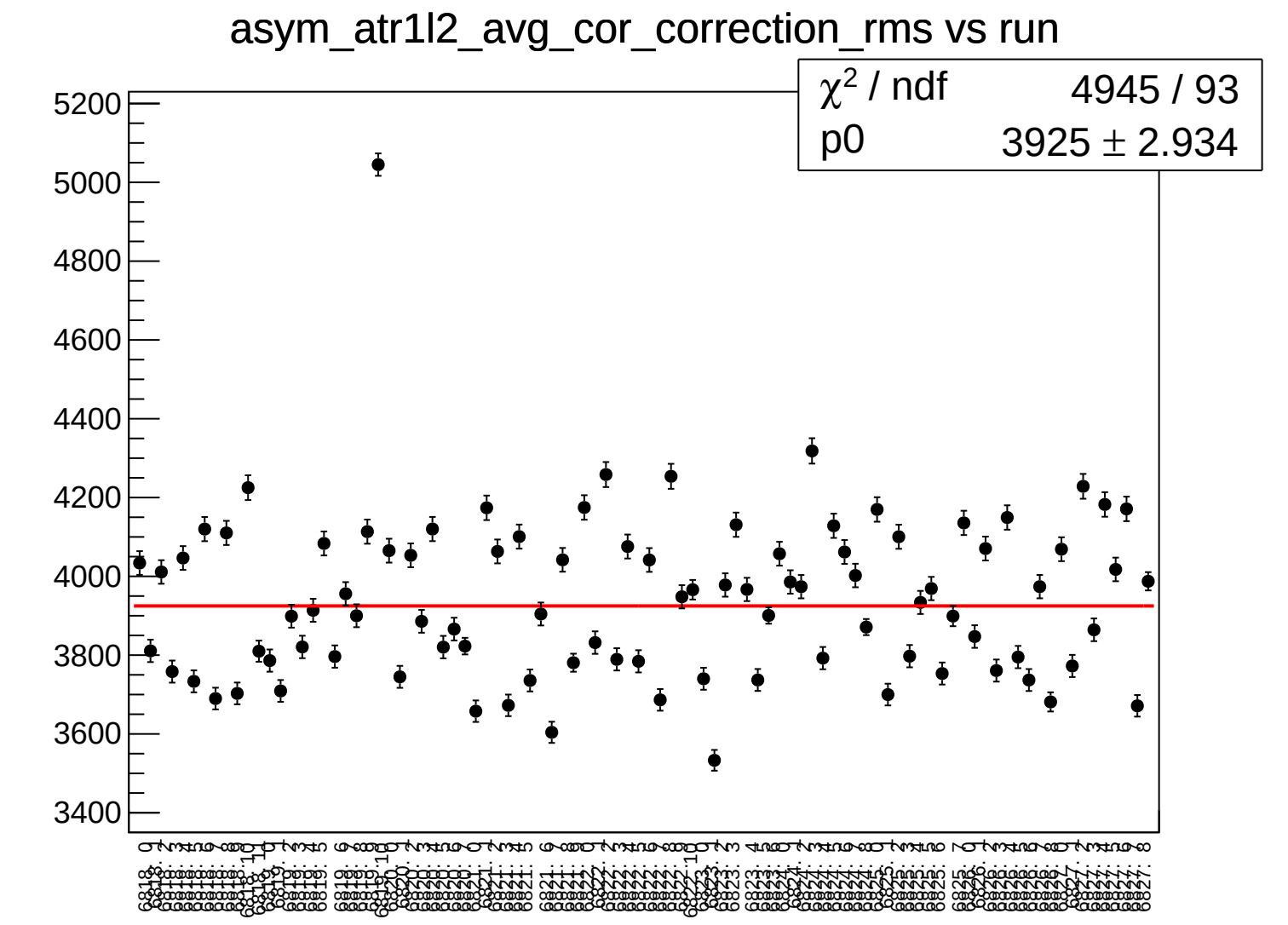

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 99.6 / 93
p0 −1013 ± 1943
pull
Entries 94
Mean −620.9
Std Dev 0

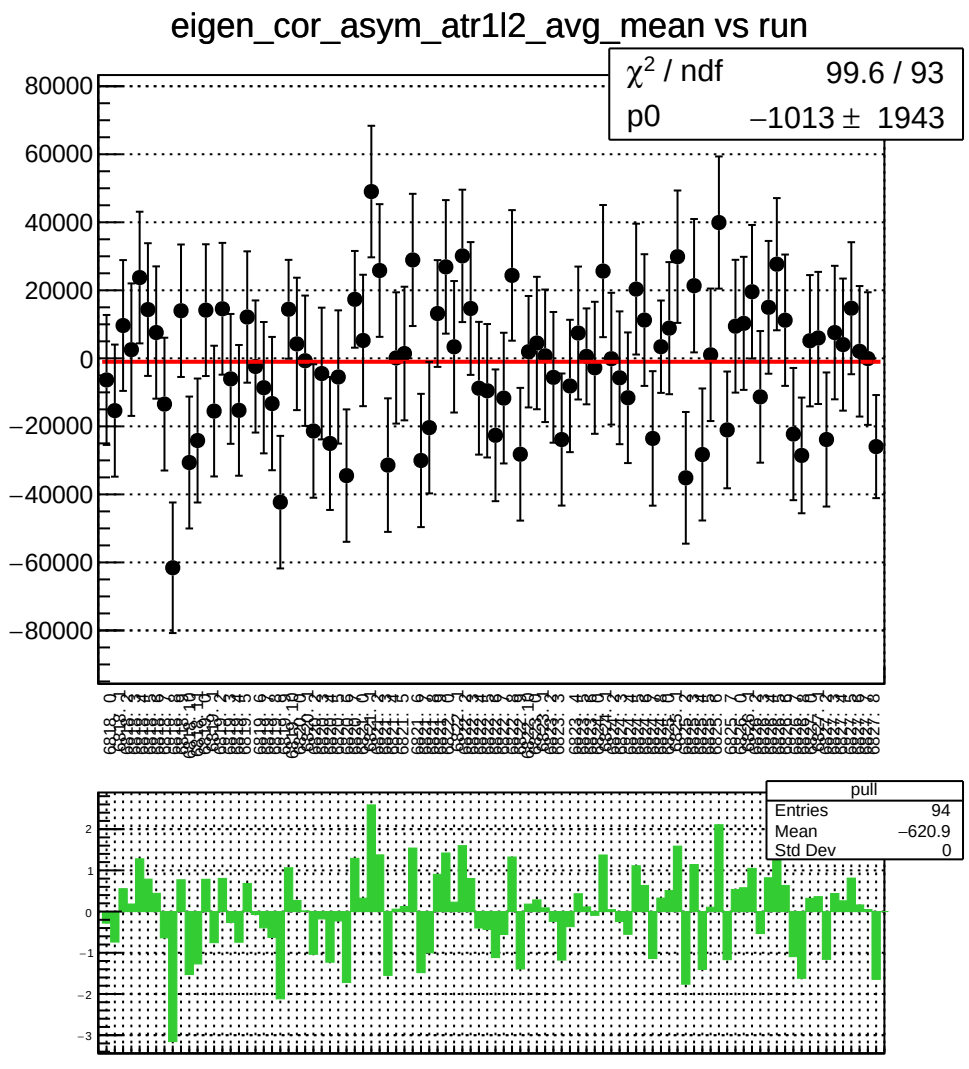

pull1D
Entries 94
Mean −0.003617
Std Dev 1.029

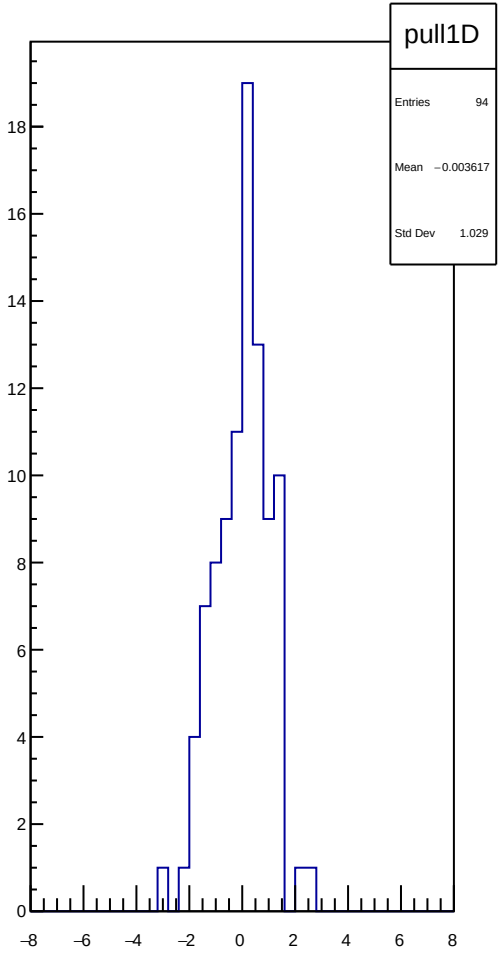

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 101.2 / 93
p0 1841 ± 1.374
1880
1860
1840
1820
1800

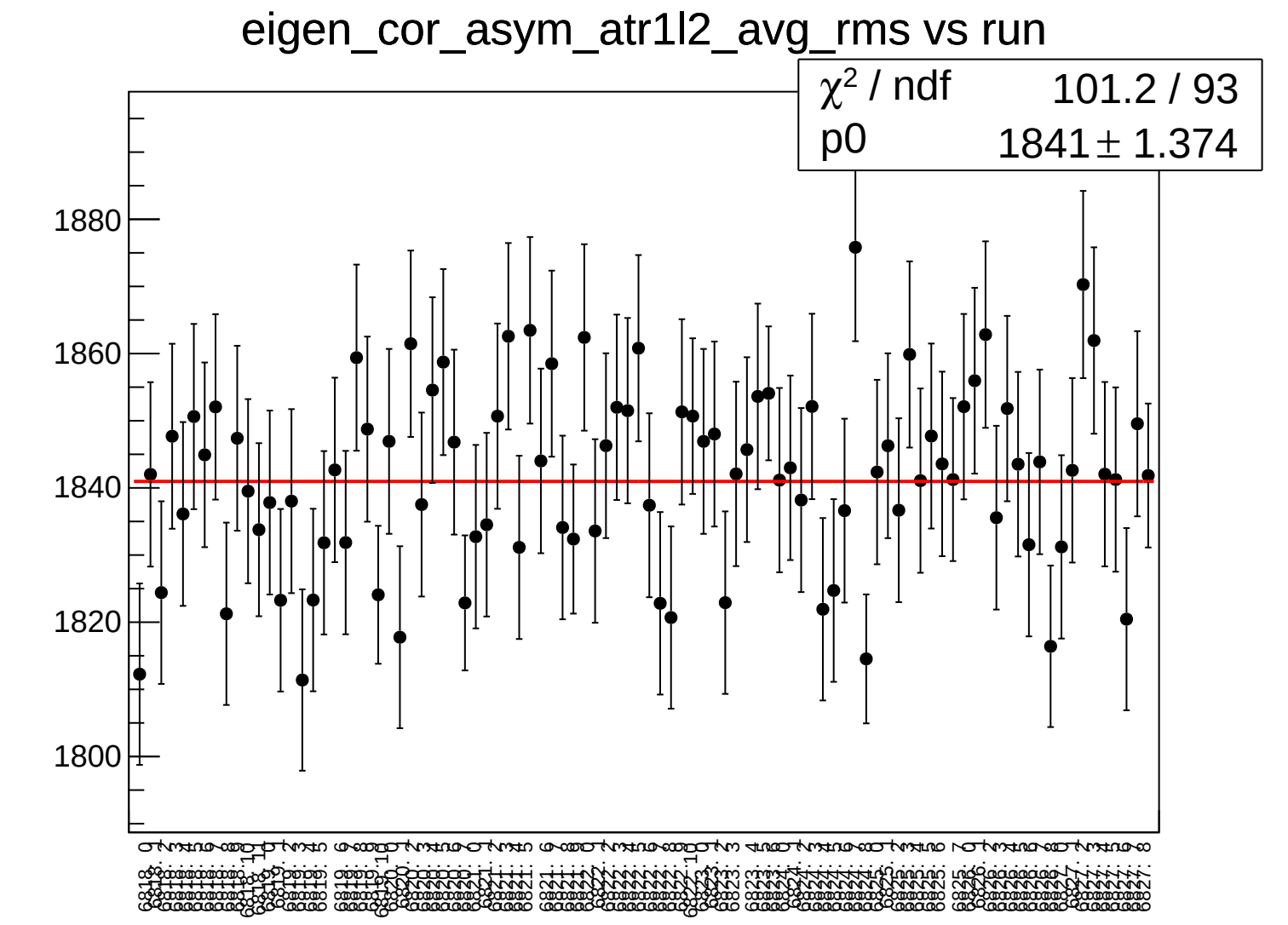

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.92 / 93
p0 372.5 ± 4149
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −7160
Std Dev 0
2
1
0
−1
−2
−3

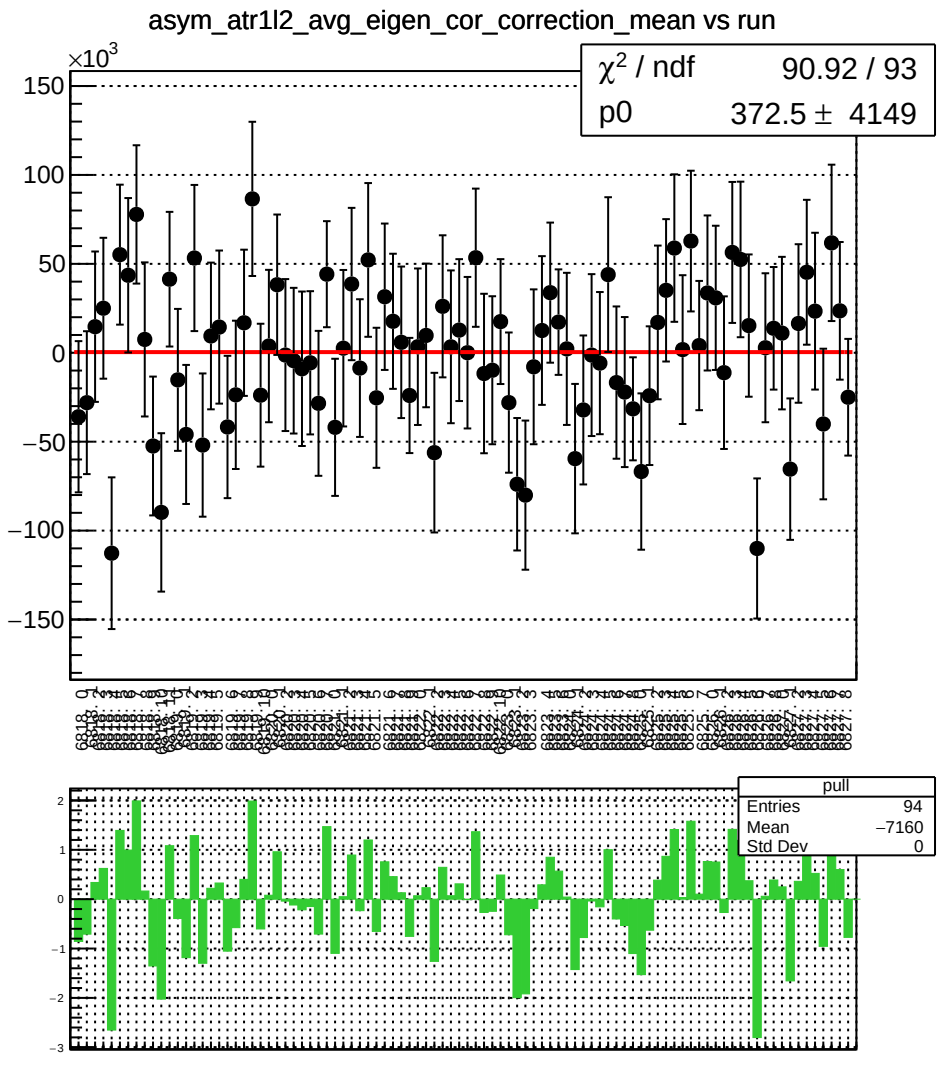

pull1D
Entries 94
Mean −0.0002066
Std Dev 0.9835
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

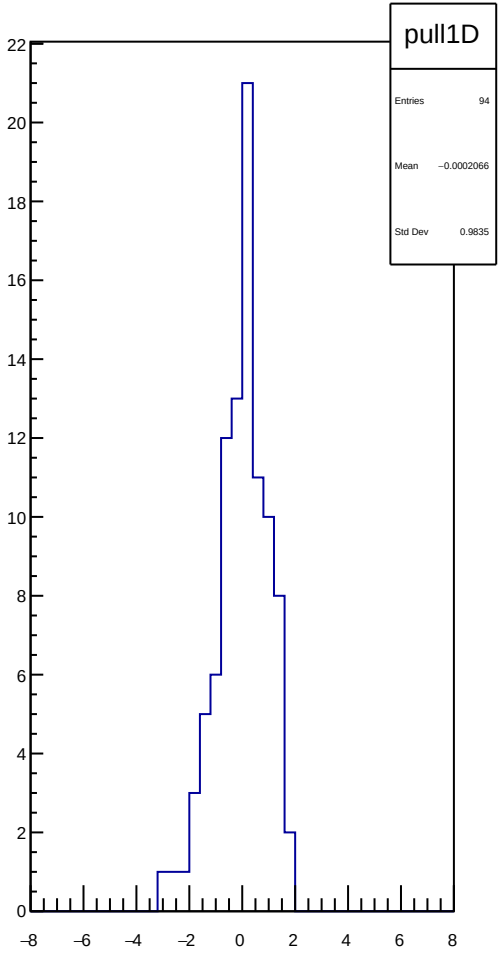

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4945 / 93
p0 3925 ± 2.934
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

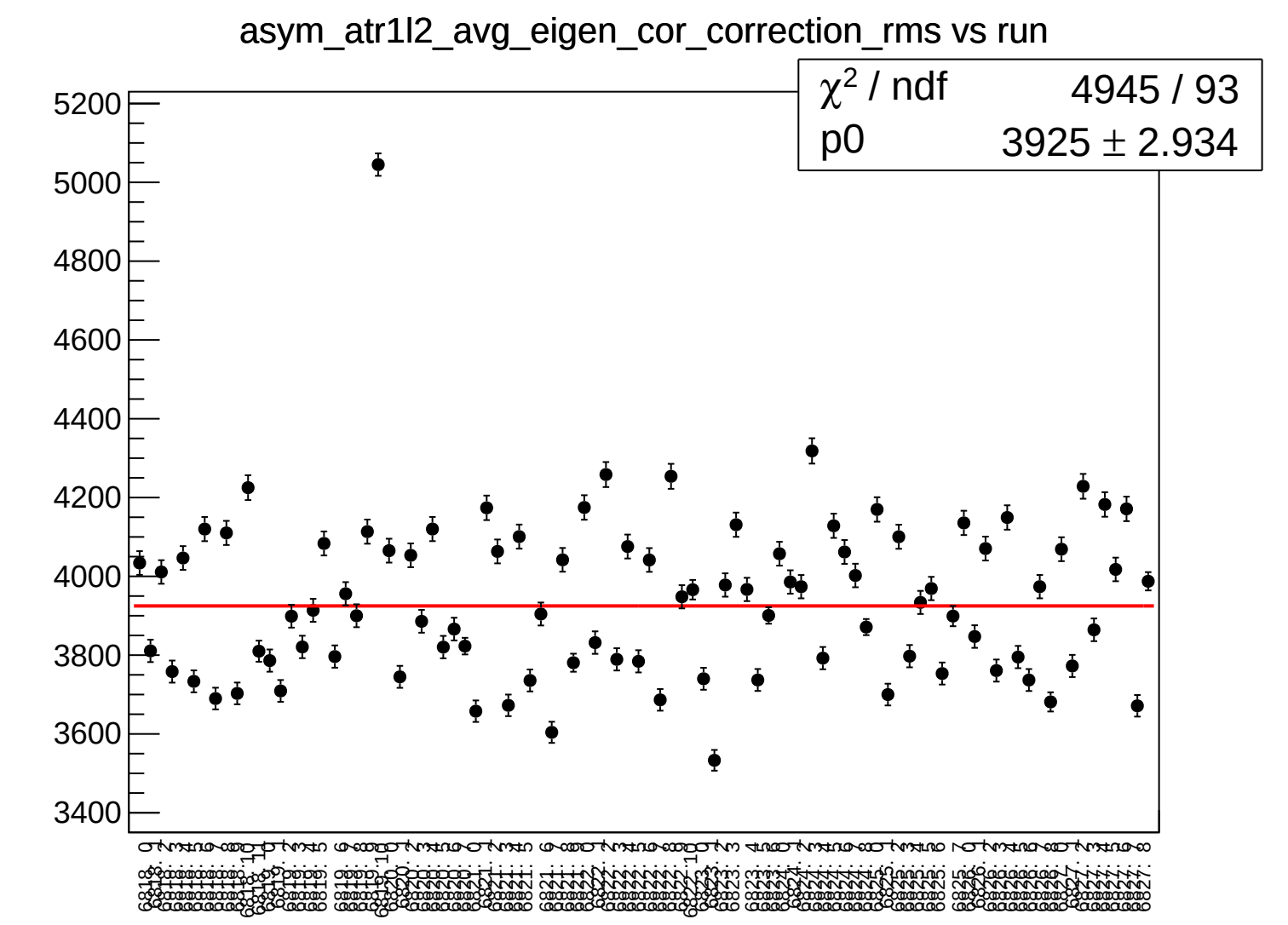

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 99.6 / 93
p0 −1013 ± 1943
pull
Entries 94
Mean −620.9
Std Dev 0

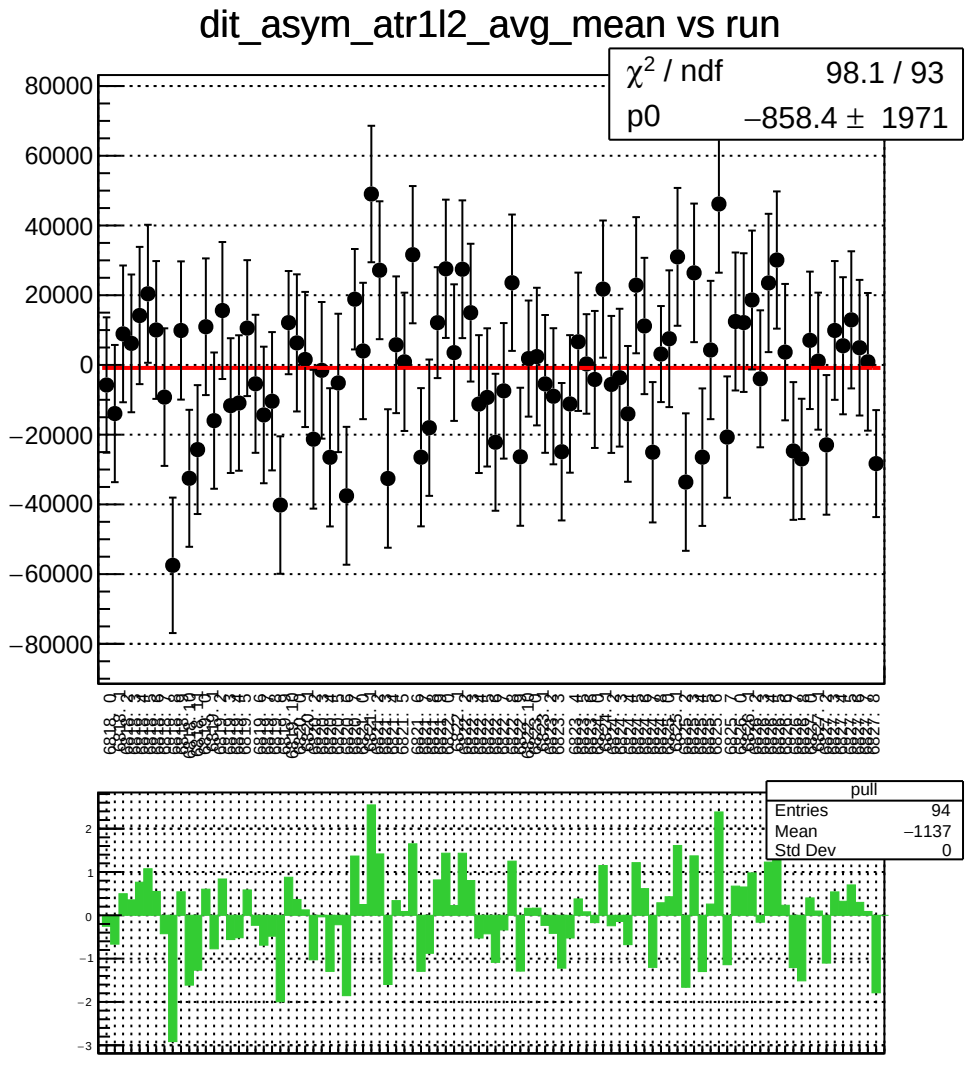

pull1D
Entries 94
Mean −0.003617
Std Dev 1.029

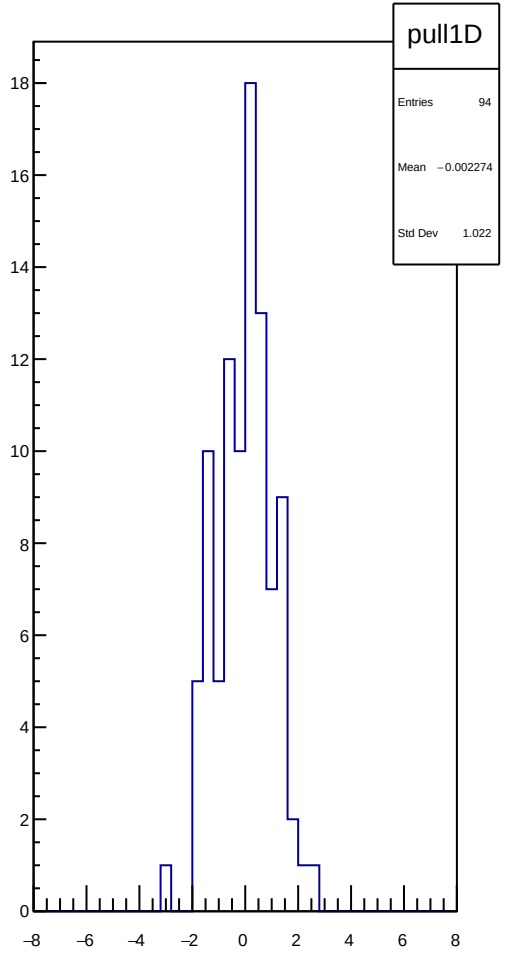

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 101.2 / 93
p0 1841 ± 1.374
1880
1860
1840
1820
1800

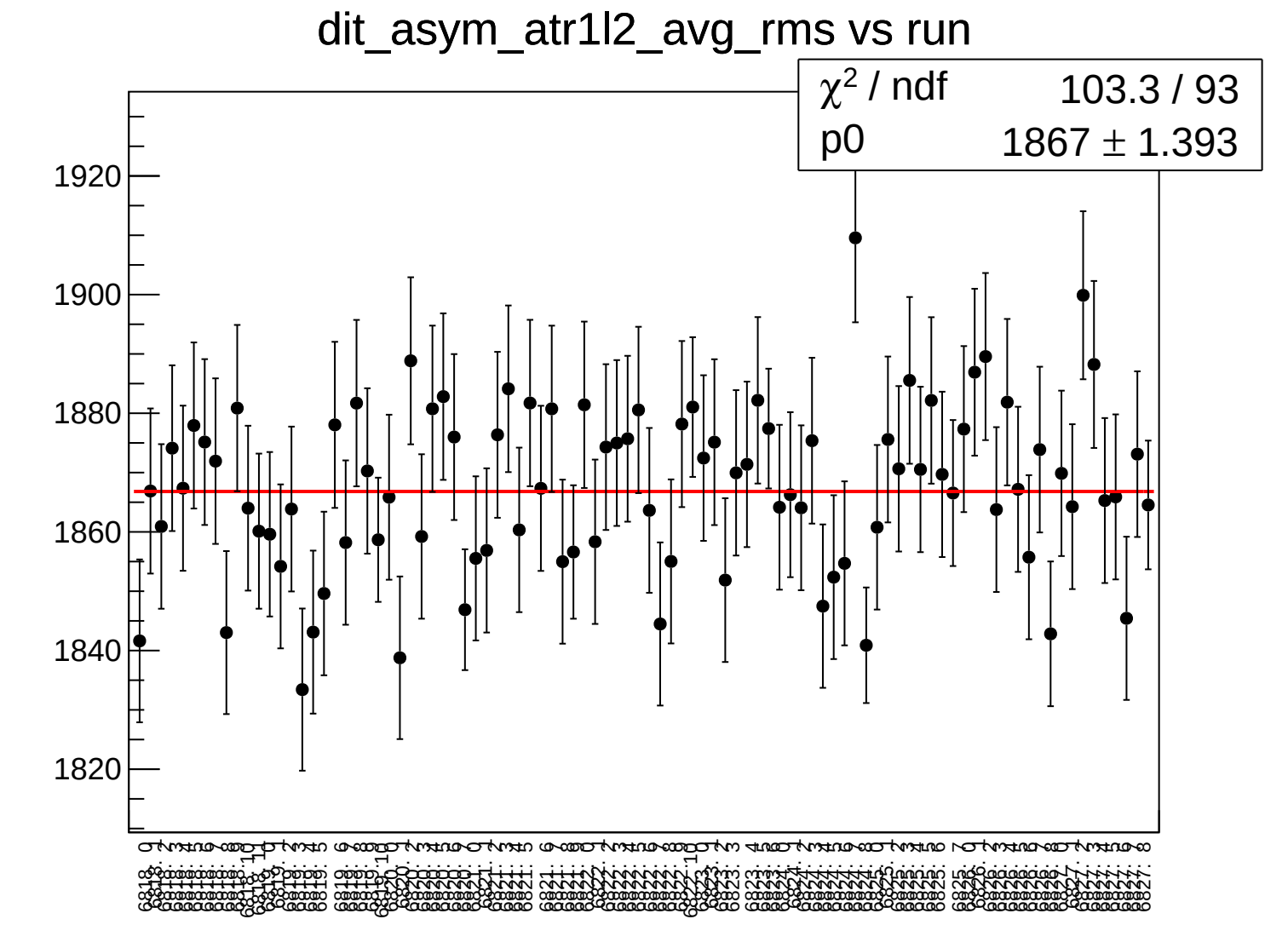

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.92 / 93
p0 372.5 ± 4149
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −7160
Std Dev 0
2
1
0
−1
−2
−3

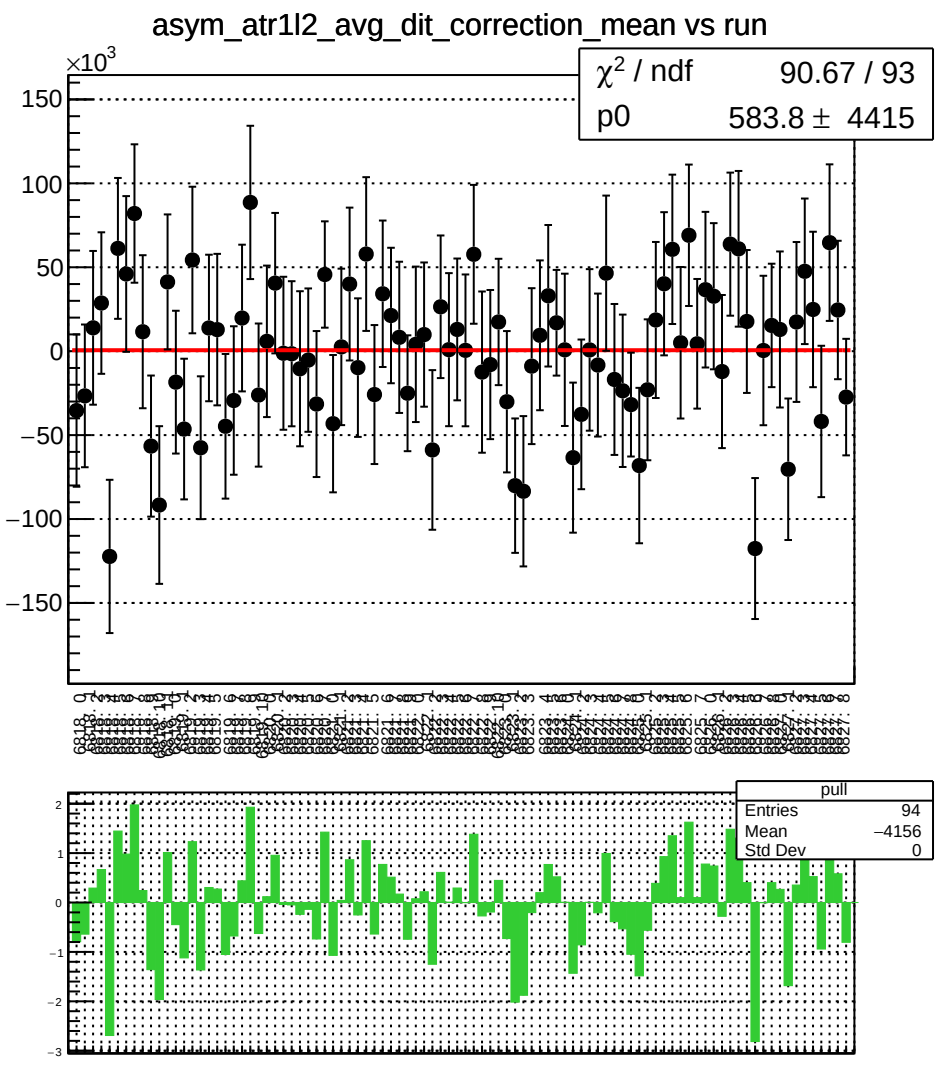

pull1D
Entries 94
Mean −0.0002066
Std Dev 0.9835
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

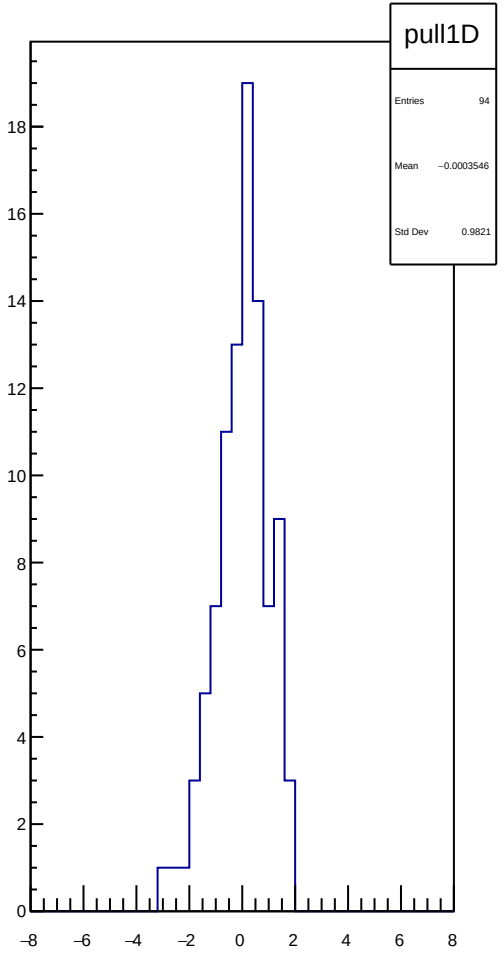

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4945 / 93
p0 3925 ± 2.934
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

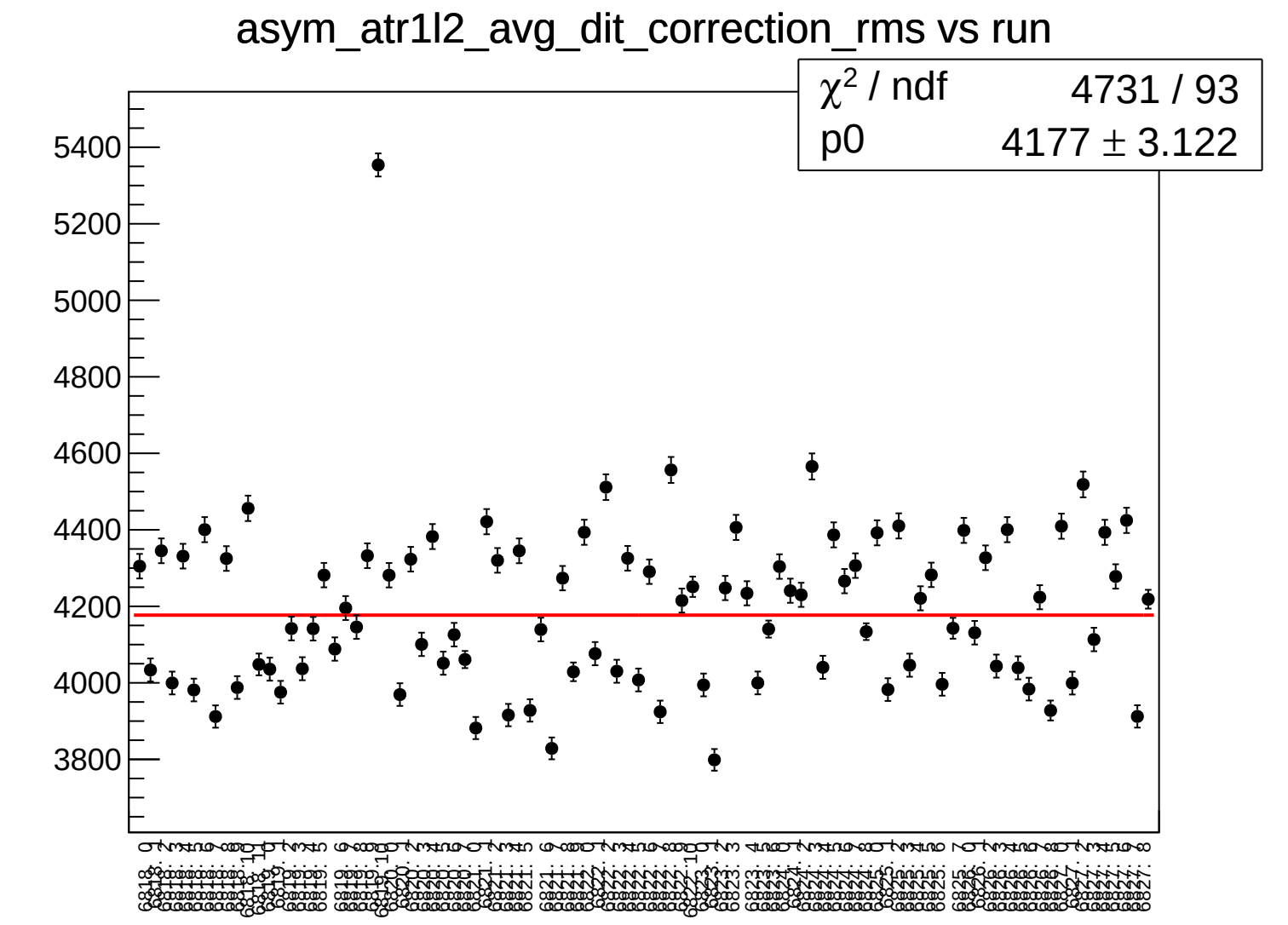

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 98.1 / 93
p0 −858.4 ± 1971
pull
Entries 94
Mean −1137
Std Dev 0

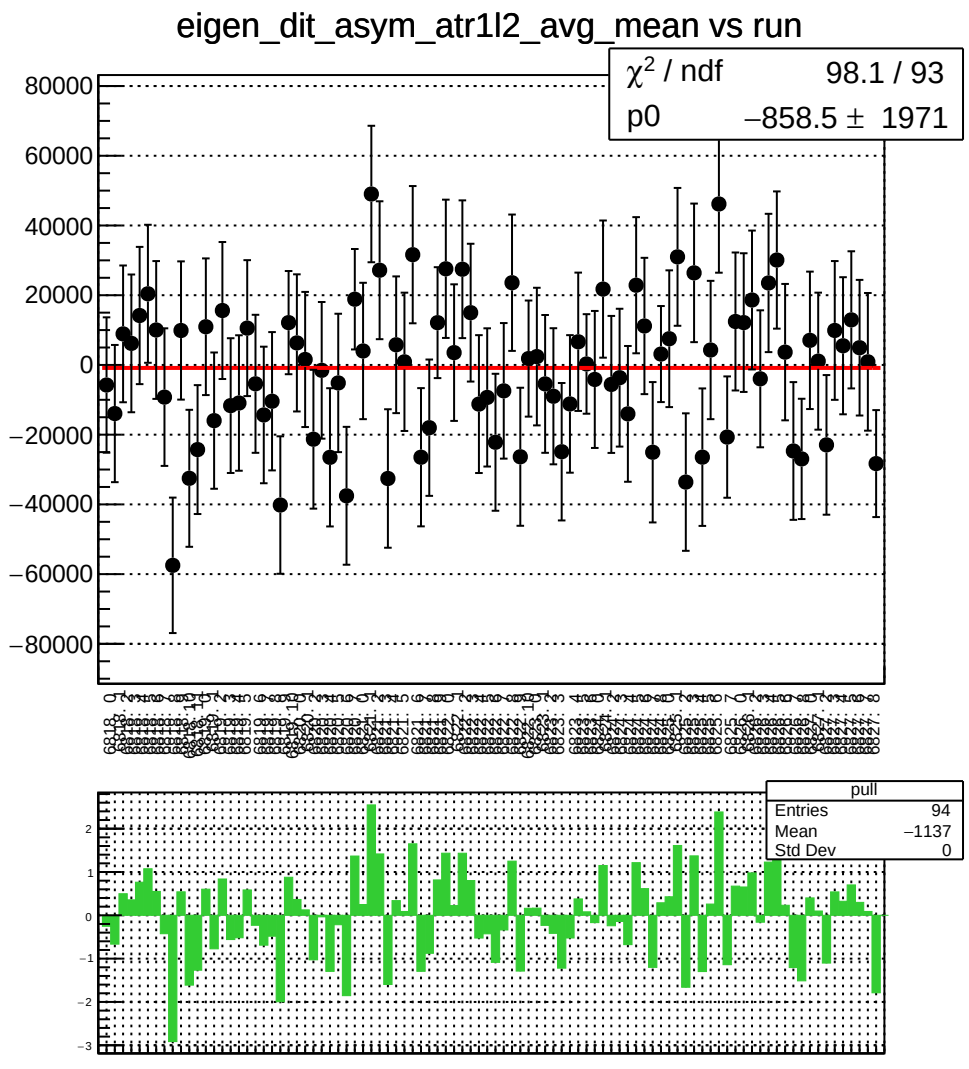

pull1D
Entries 94
Mean −0.002274
Std Dev 1.022

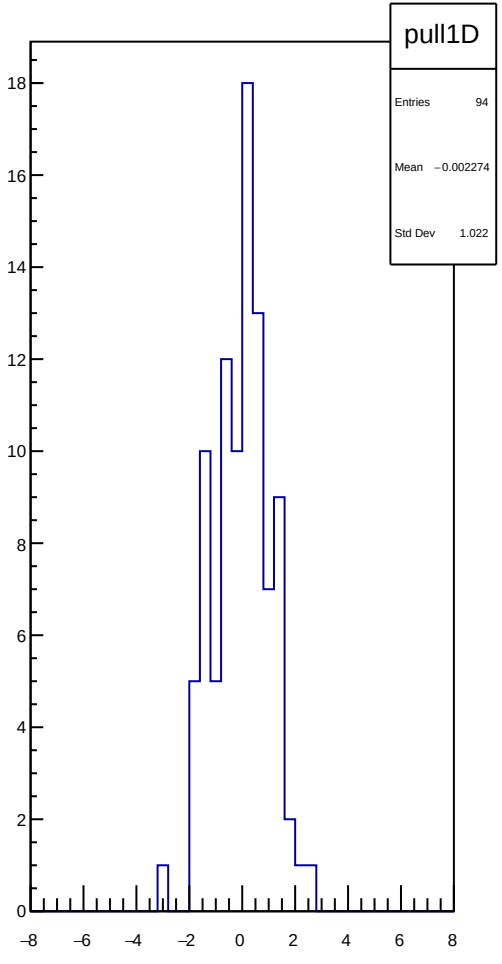

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 103.3 / 93
p0 1867 ± 1.393
1920
1900
1880
1860
1840
1820

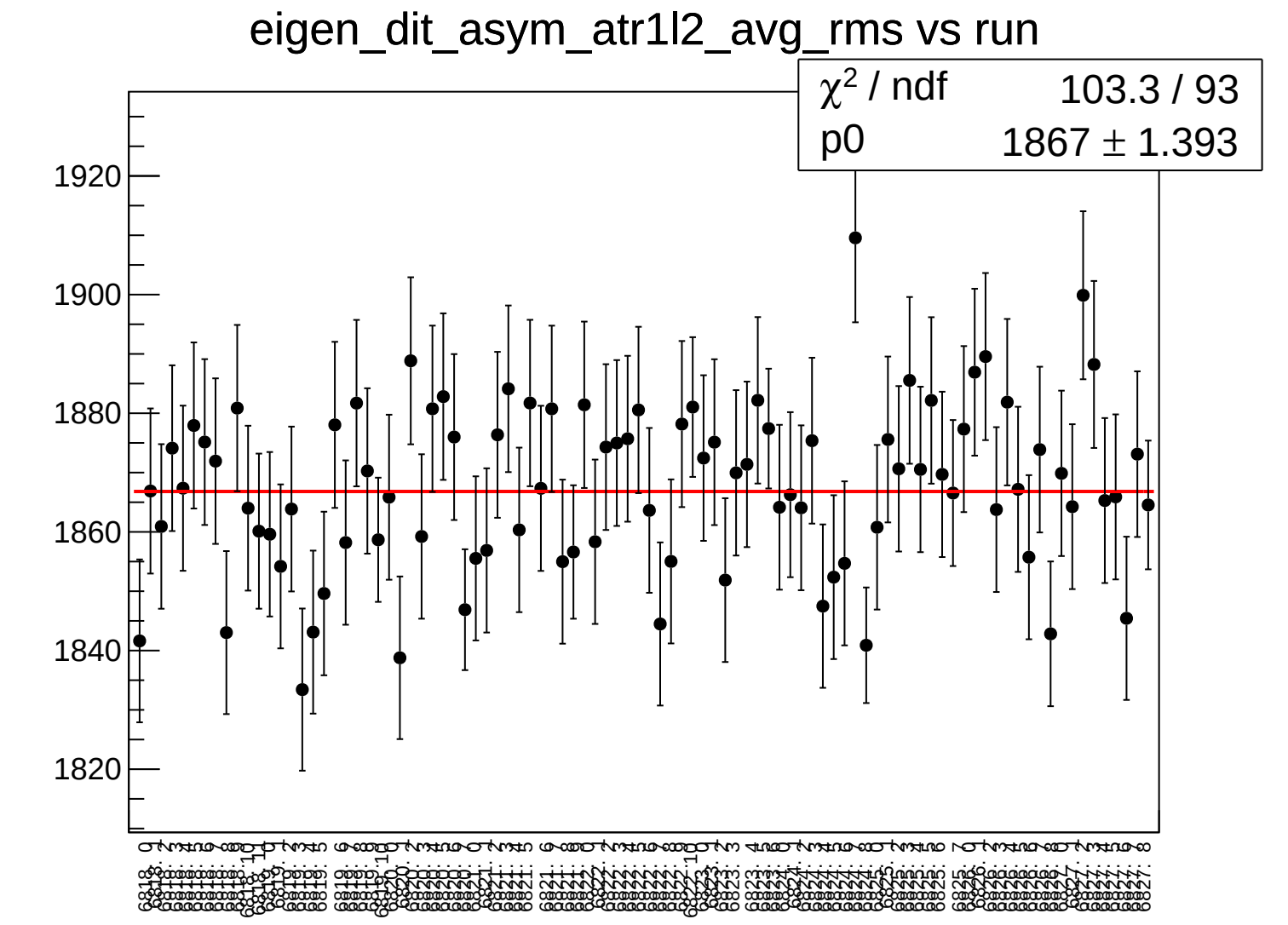

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.67 / 93
p0 583.8 ± 4415
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −4156
Std Dev 0
2
1
0
−1
−2
−3

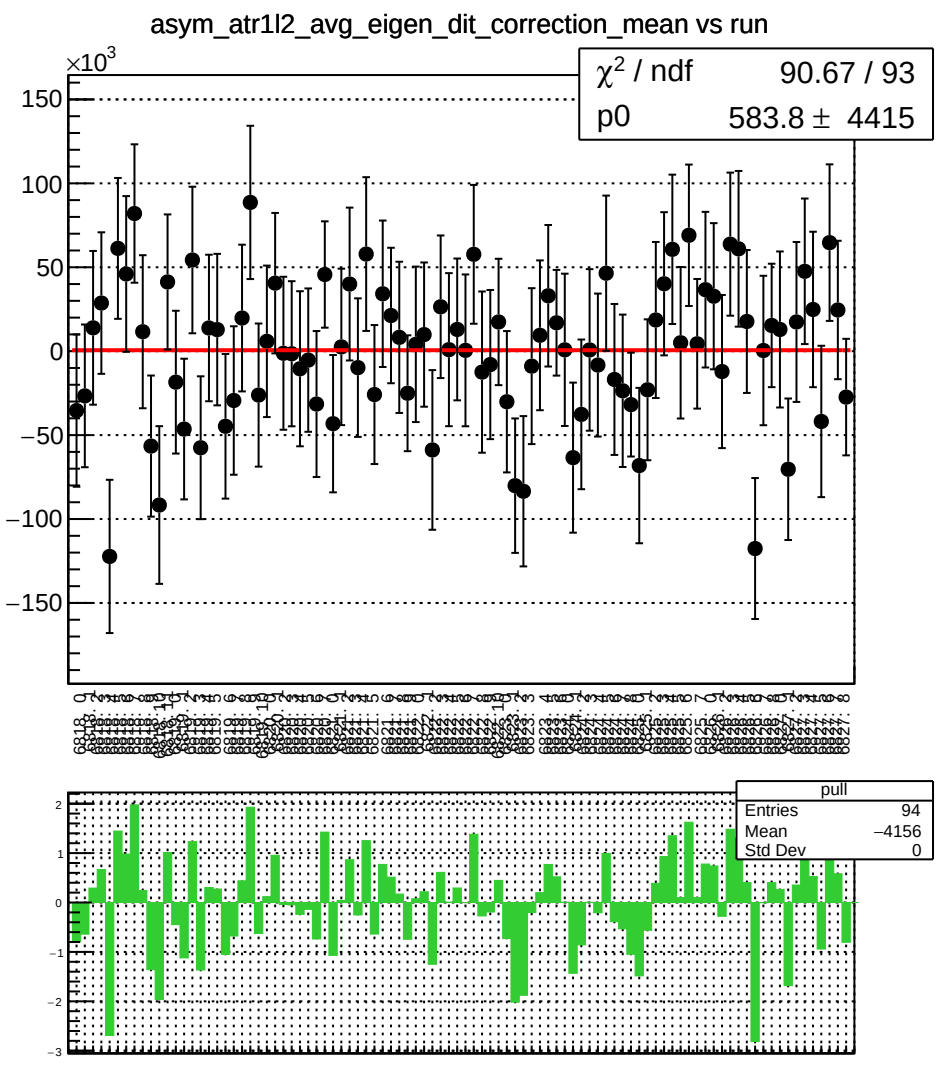

pull1D
Entries 94
Mean −0.0003546
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

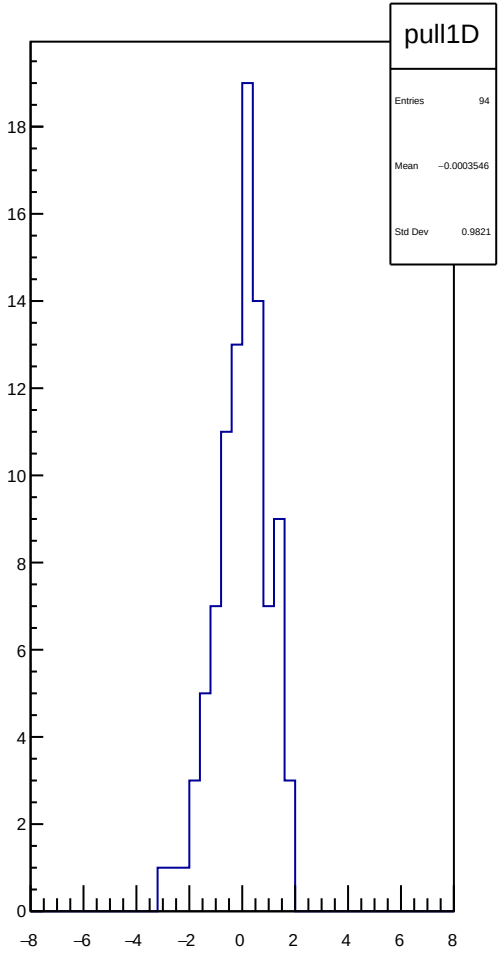

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4731 / 93
p0 4177 ± 3.122
5400
5200
5000
4800
4600
4400
4200
4000
3800

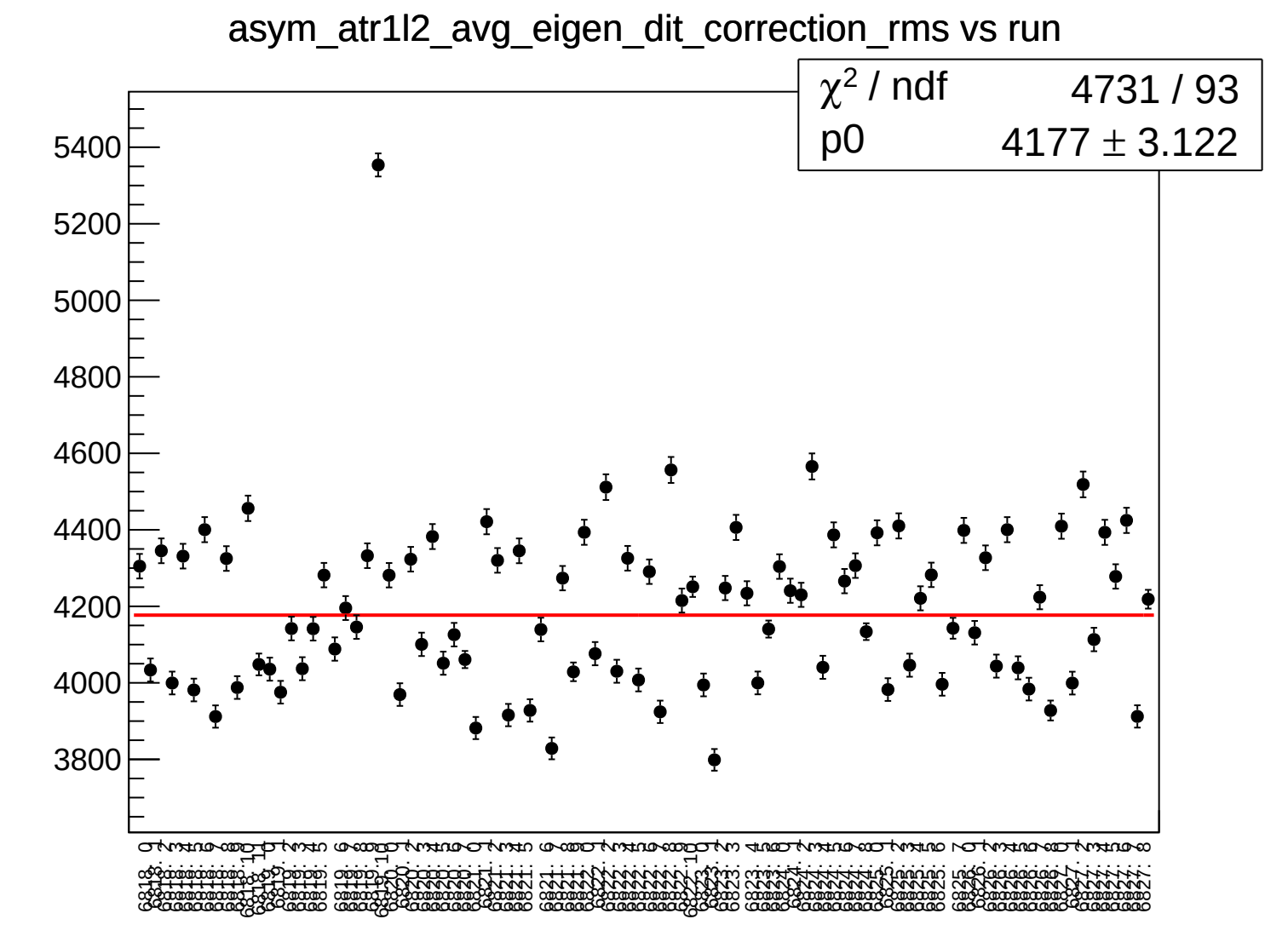

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 98.1 / 93
p0 −858.5 ± 1971
pull
Entries 94
Mean −1137
Std Dev 0

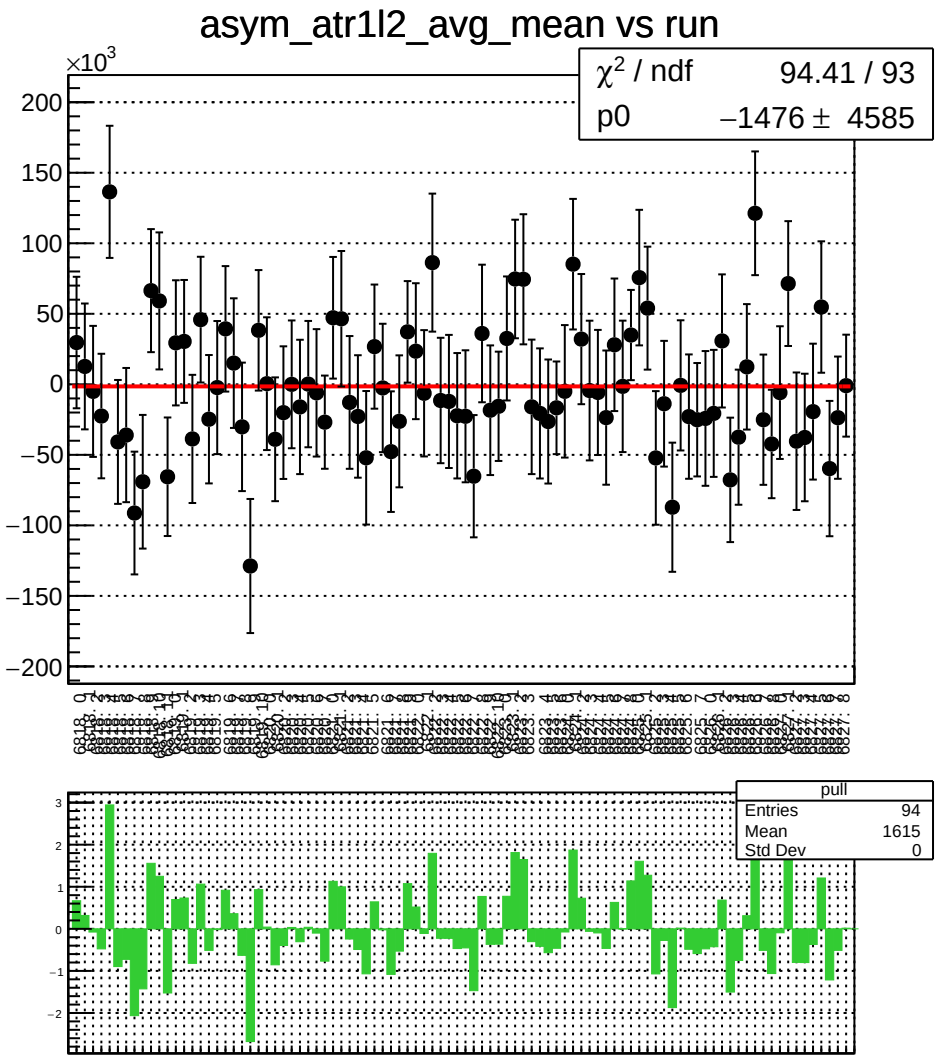

pull1D
Entries 94
Mean −0.002274
Std Dev 1.022

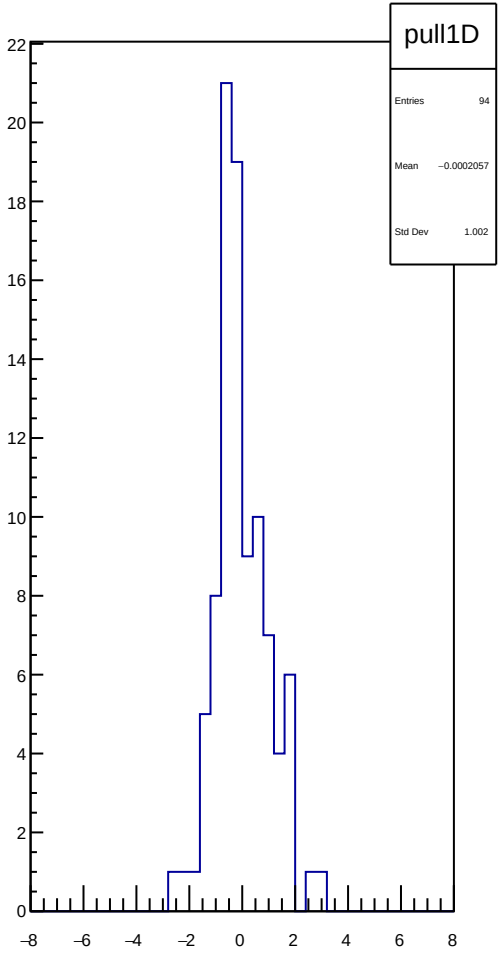

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 103.3 / 93
p0 1867 ± 1.393
1920
1900
1880
1860
1840
1820

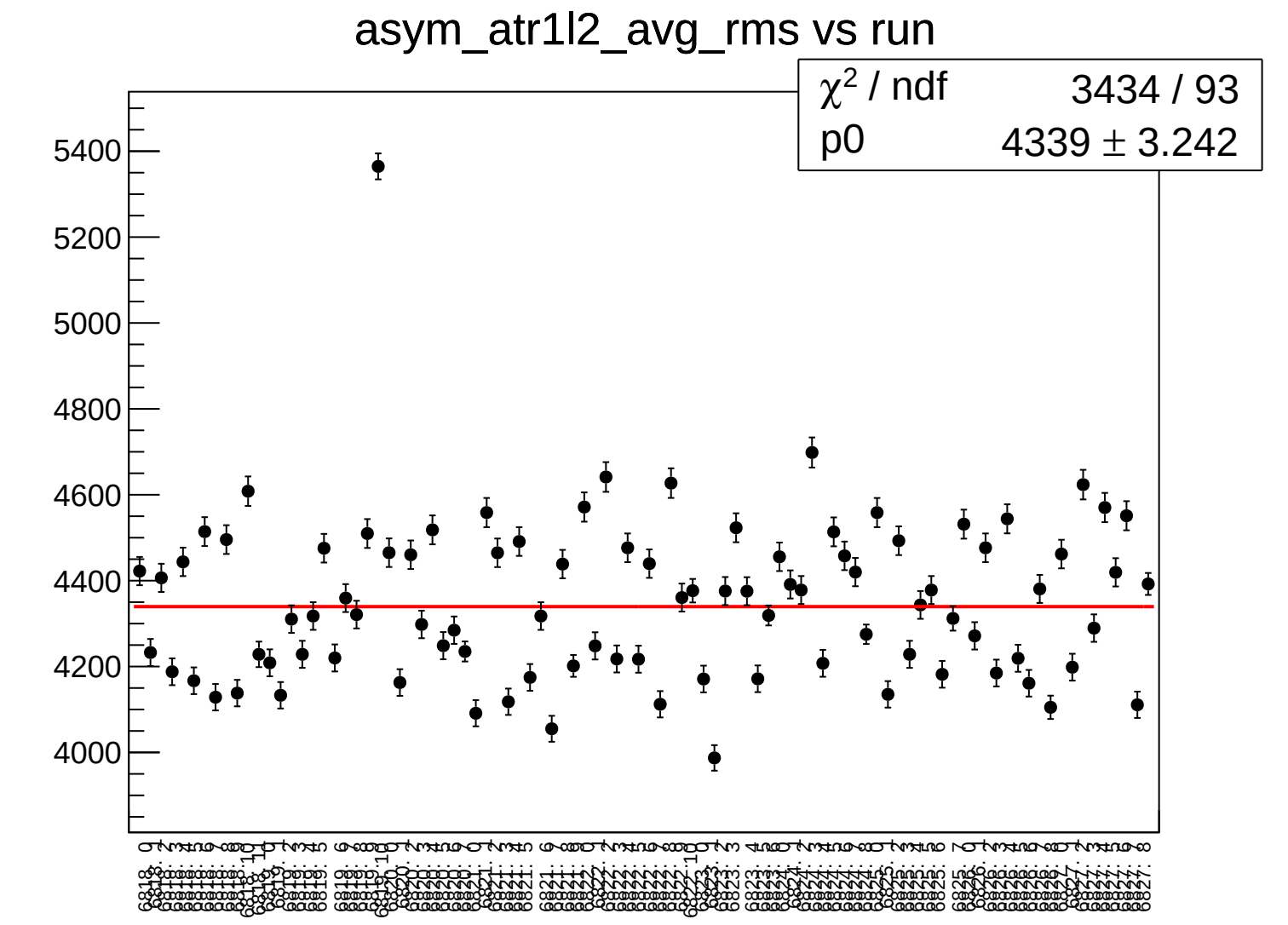

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.67 / 93
p0 583.8 ± 4415
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −4156
Std Dev 0
2
1
0
−1
−2
−3

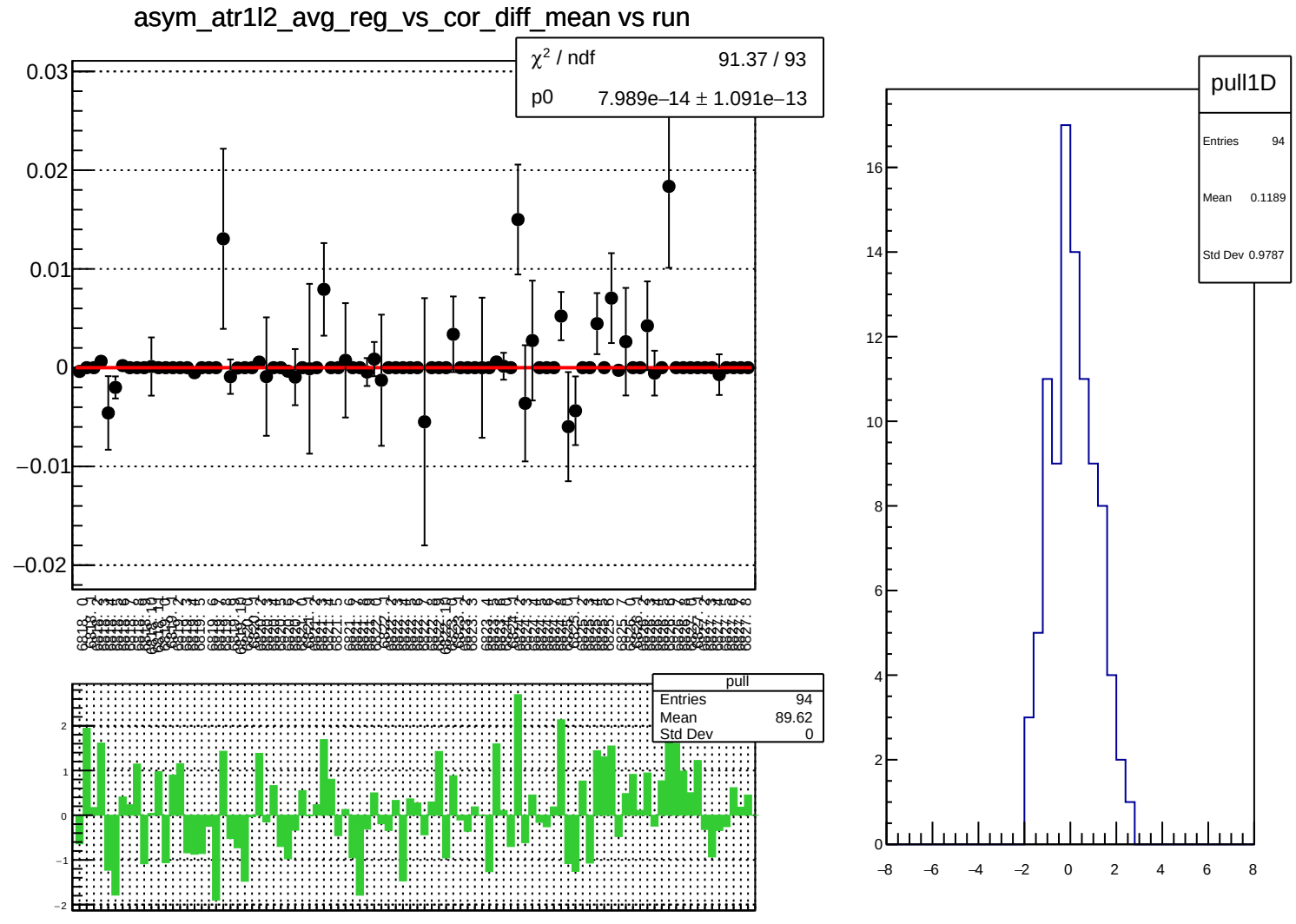

pull1D
Entries 94
Mean −0.0003546
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

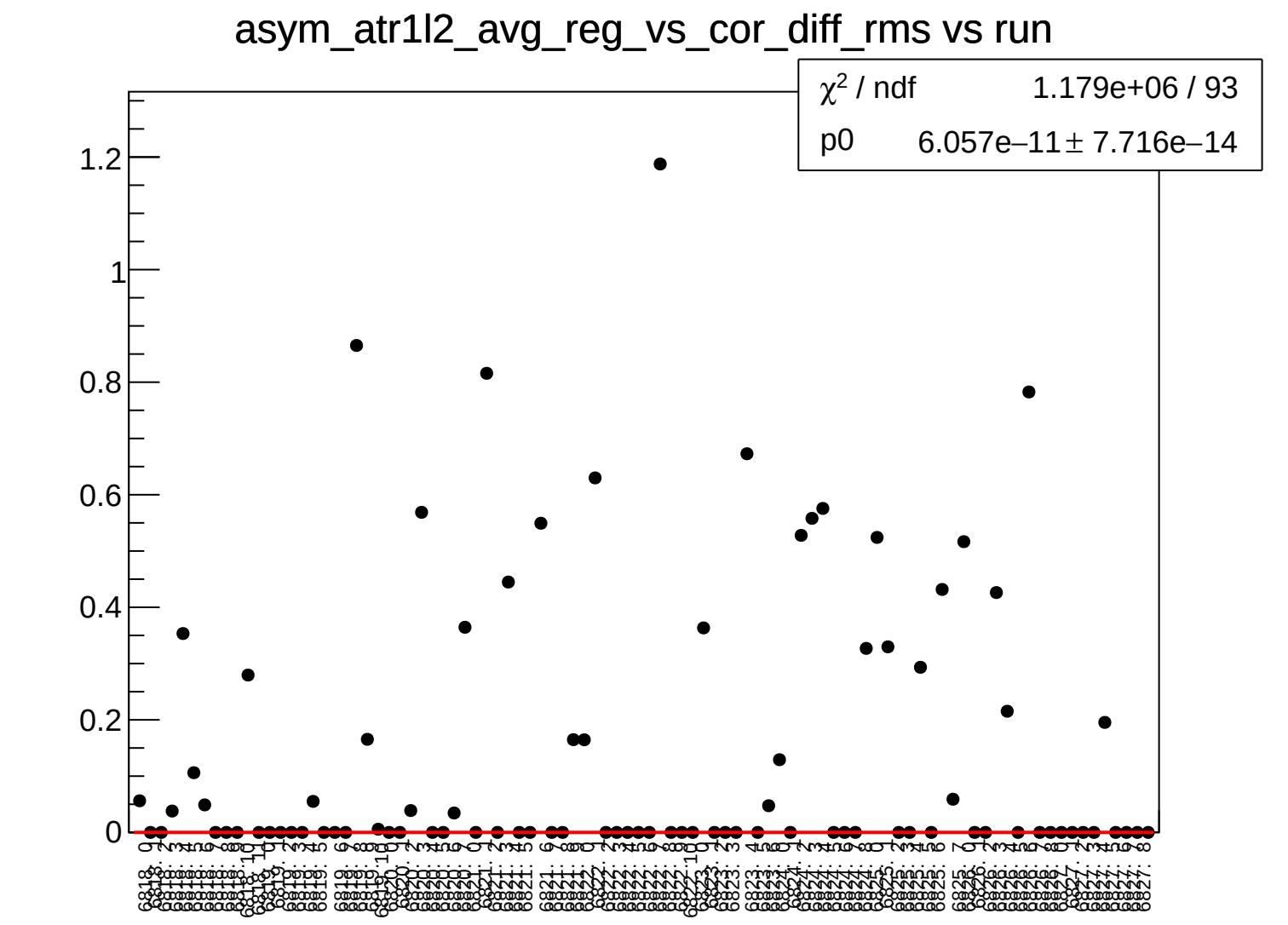

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4731 / 93
p0 4177 ± 3.122
5400
5200
5000
4800
4600
4400
4200
4000
3800

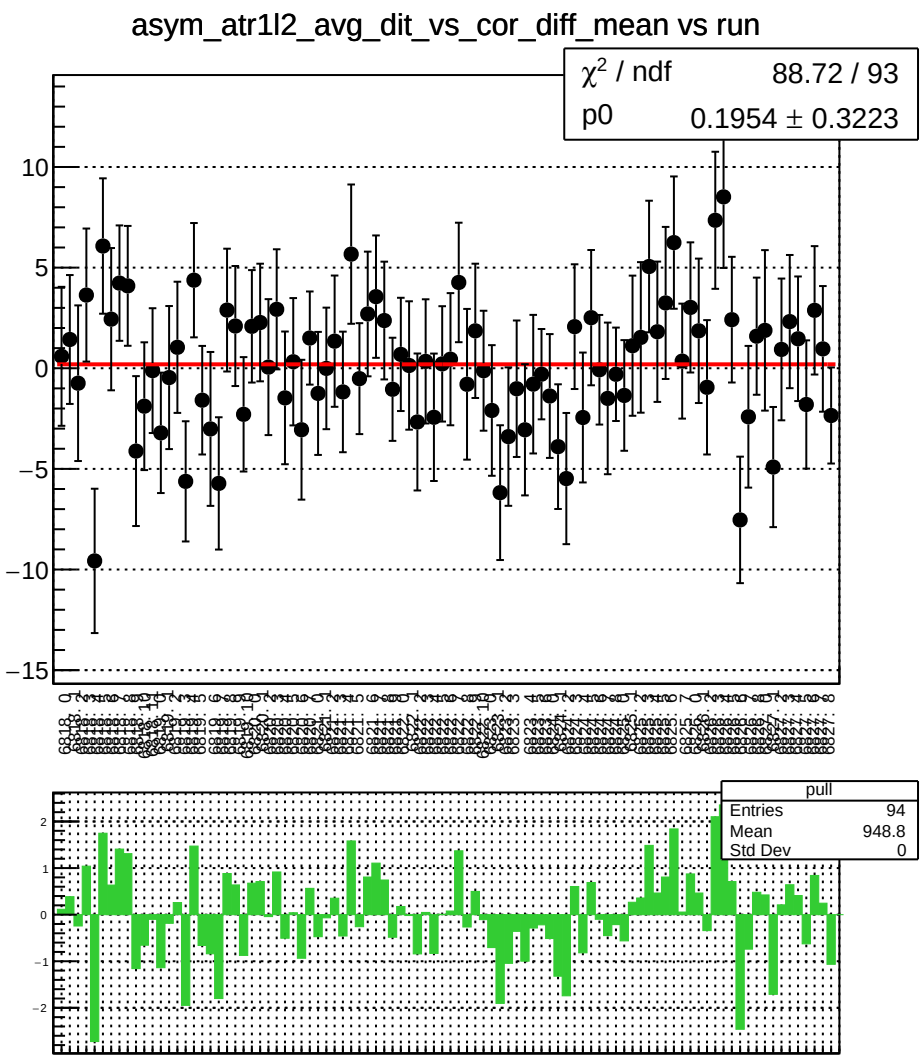

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 94.41 / 93
p0 −1476 ± 4585
pull
Entries 94
Mean 1615
Std Dev 0

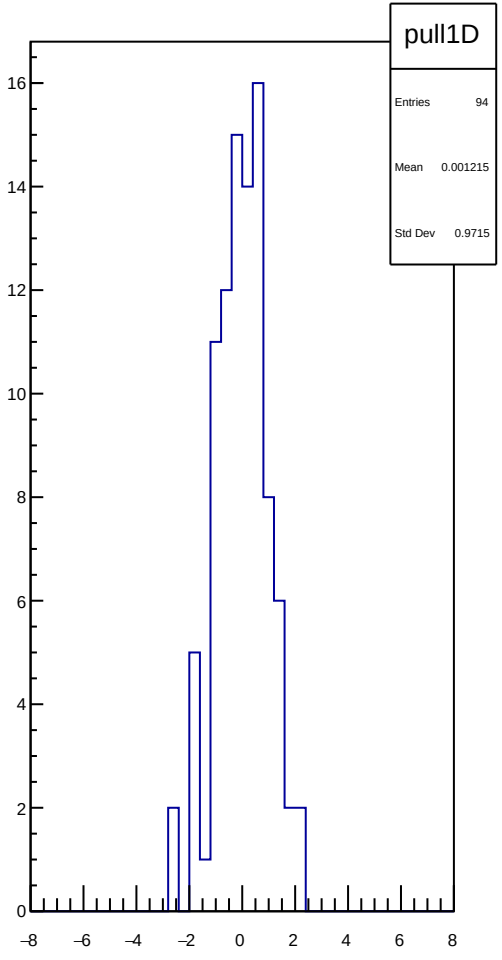

pull1D
Entries 94
Mean −0.0002057
Std Dev 1.002

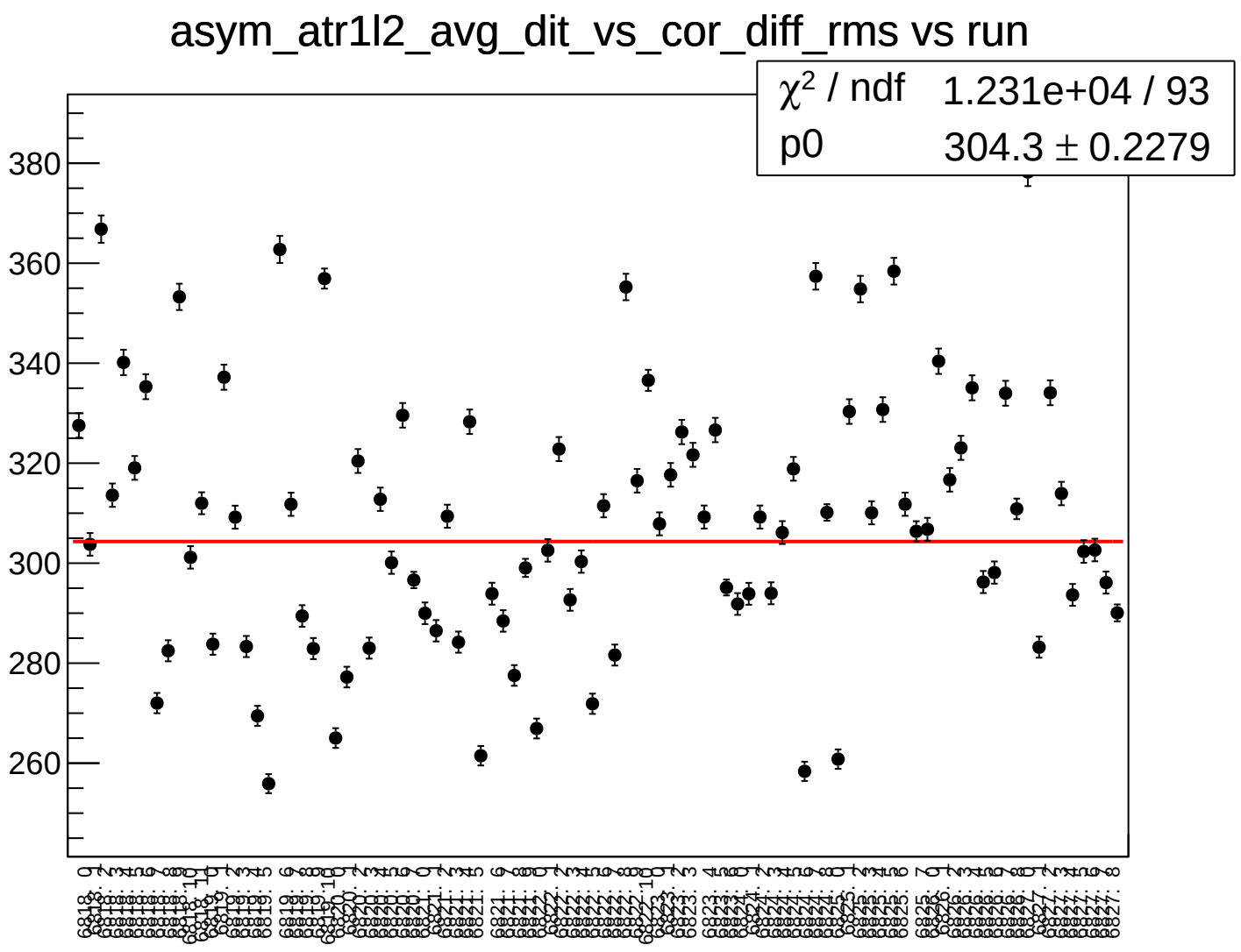

asym_atr1l2_avg_rms vs run
χ² / ndf 3434 / 93
p0 4339 ± 3.242
5400
5200
5000
4800
4600
4400
4200
4000

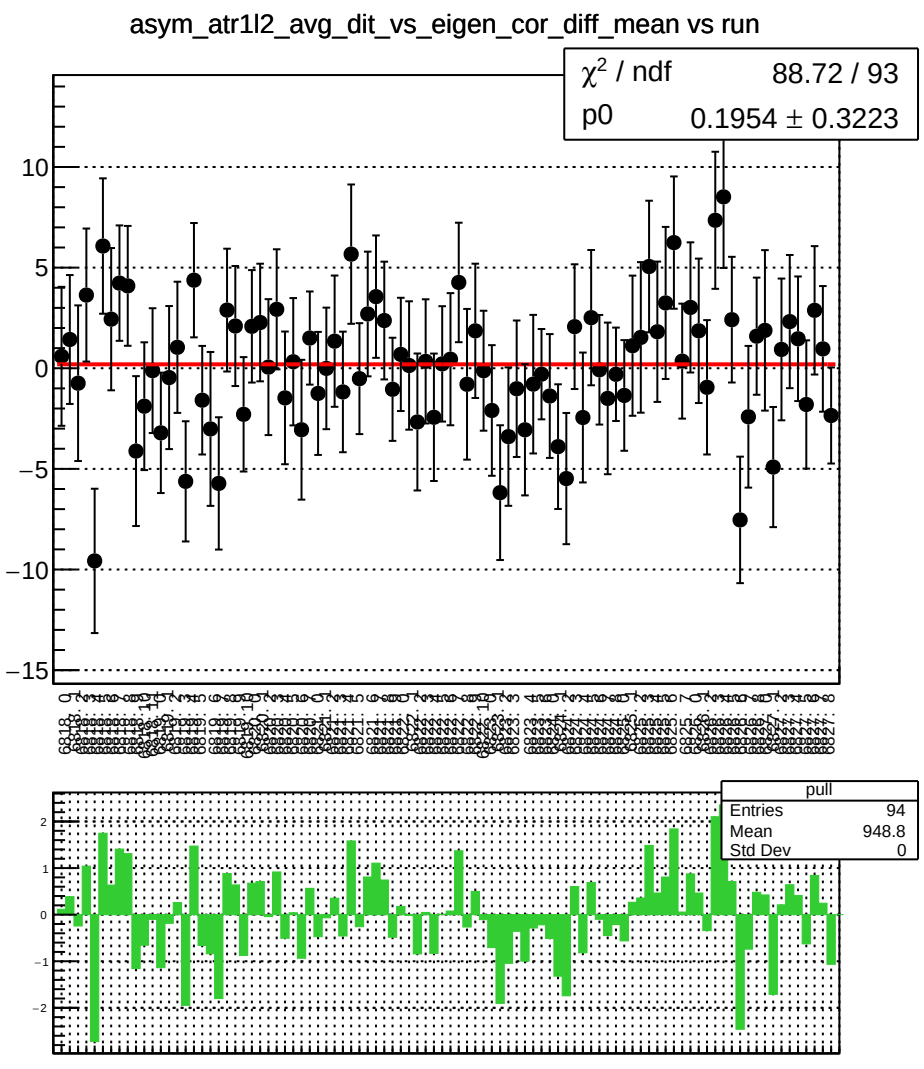

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 91.37 / 93
p0 7.989e−14 ± 1.091e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 89.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1189
Std Dev 0.9787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

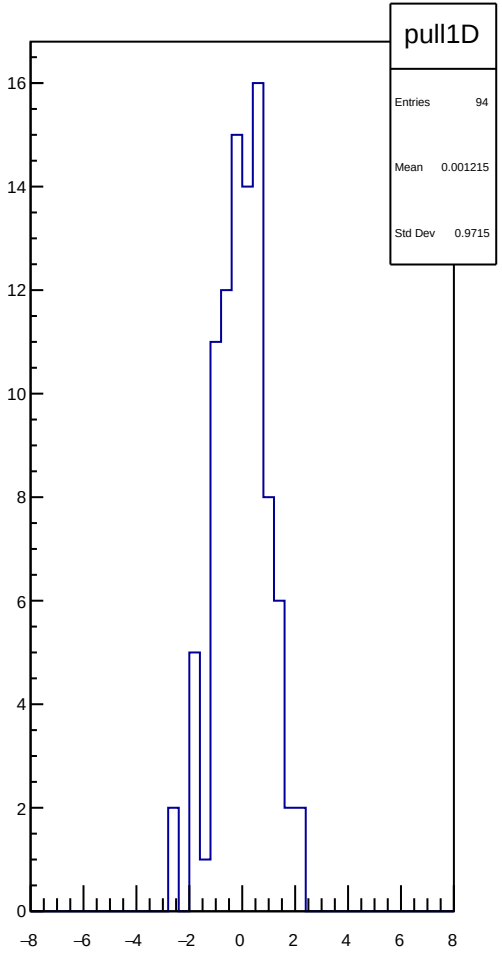

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.179e+06 / 93
p0 6.057e−11 ± 7.716e−14
1.2
1
0.8
0.6
0.4
0.2
0

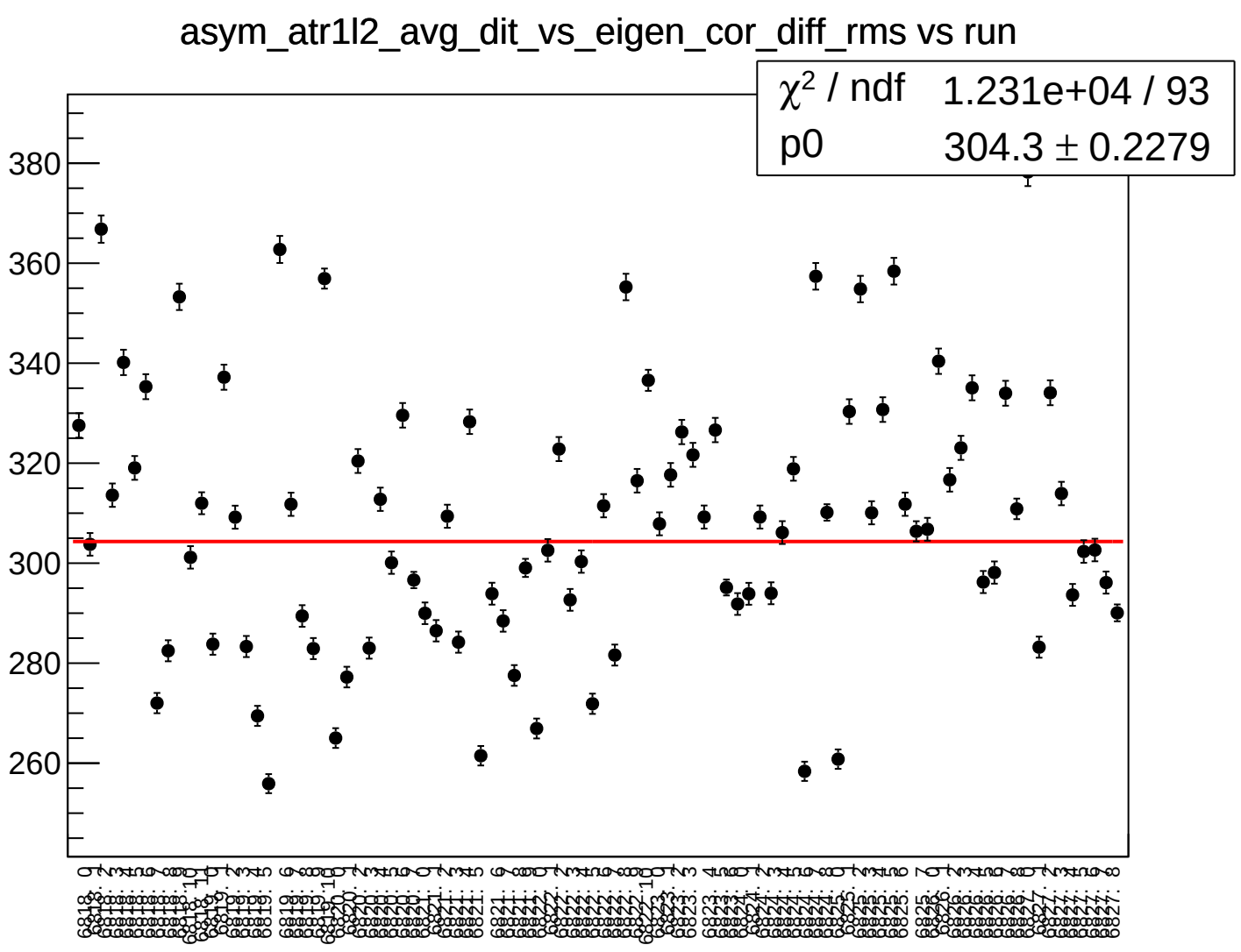

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.72 / 93
p0 0.1954 ± 0.3223
pull
Entries 94
Mean 948.8
Std Dev 0

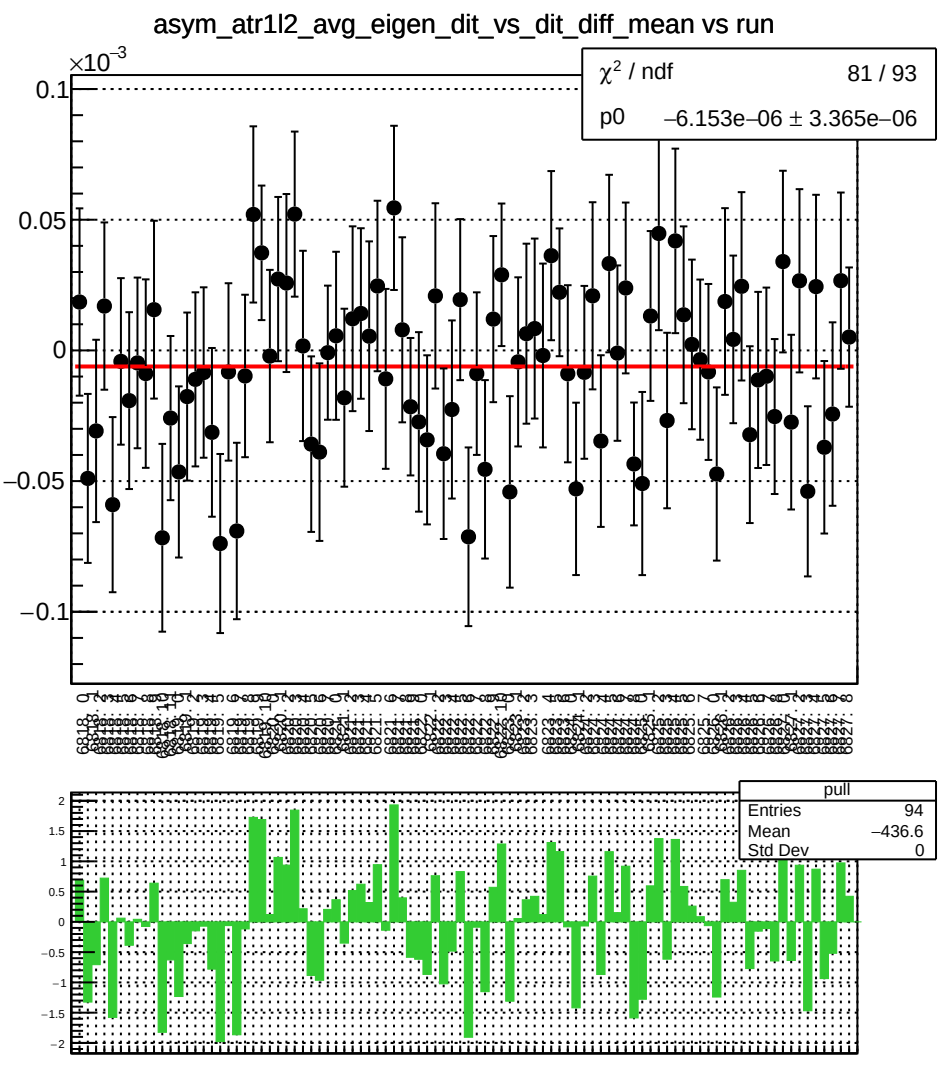

pull1D
Entries 94
Mean 0.001215
Std Dev 0.9715

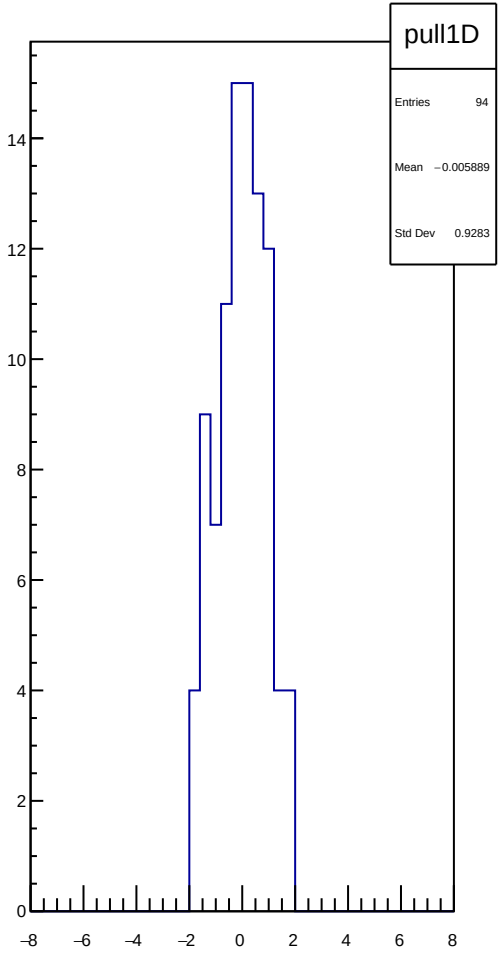

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.231e+04 / 93
p0 304.3 ± 0.2279
380
360
340
320
300
280
260

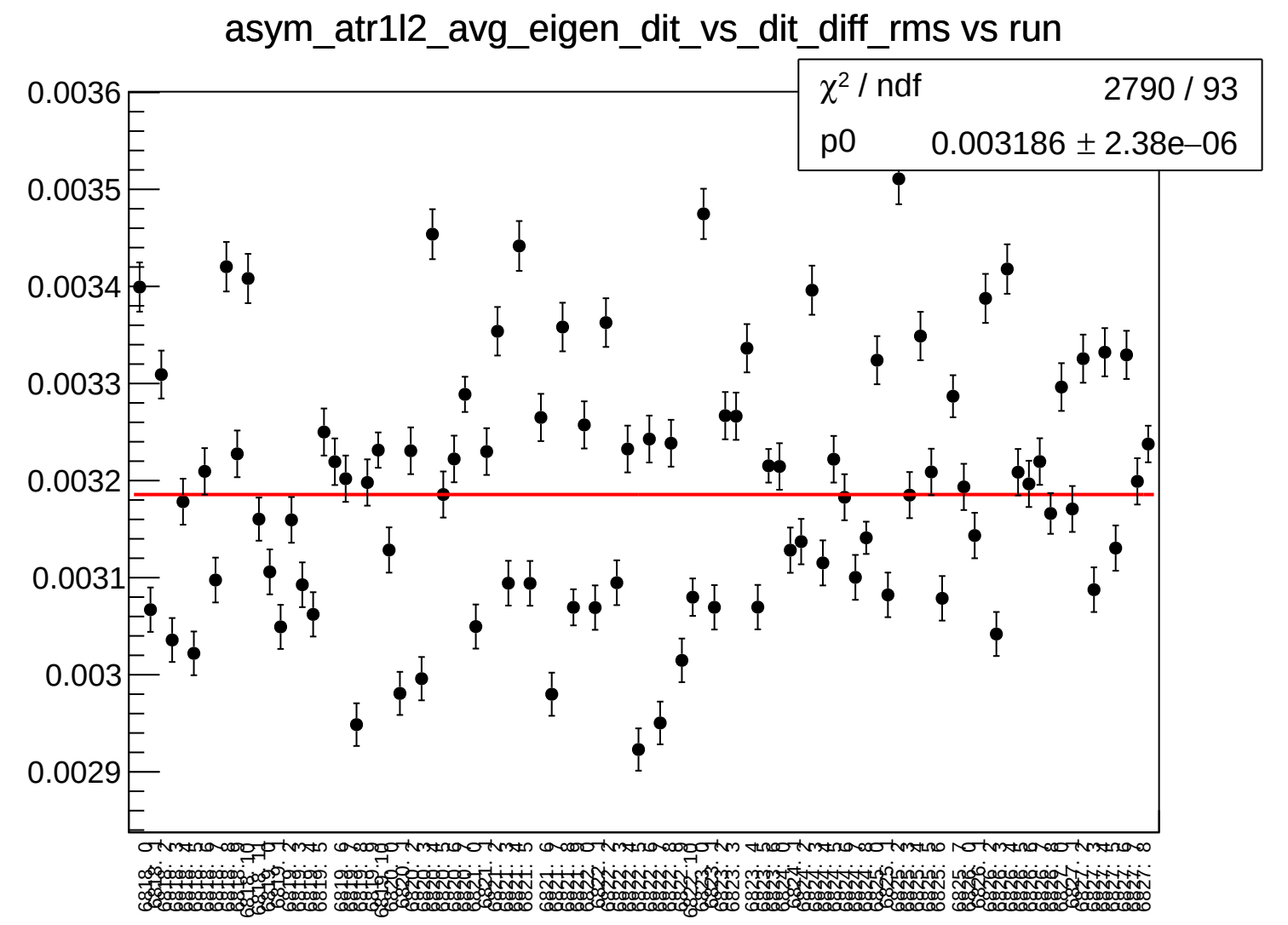

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.72 / 93
p0 0.1954 ± 0.3223
pull
Entries 94
Mean 948.8
Std Dev 0

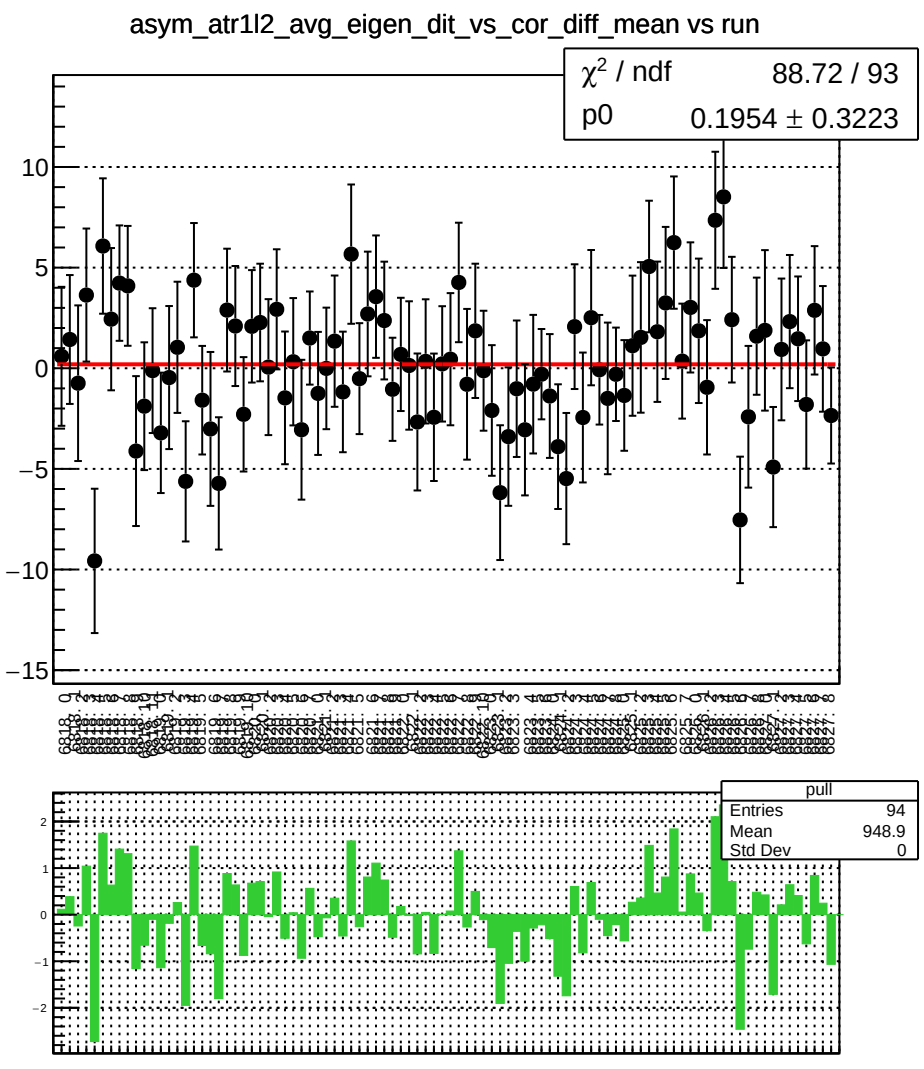

pull1D
Entries 94
Mean 0.001215
Std Dev 0.9715

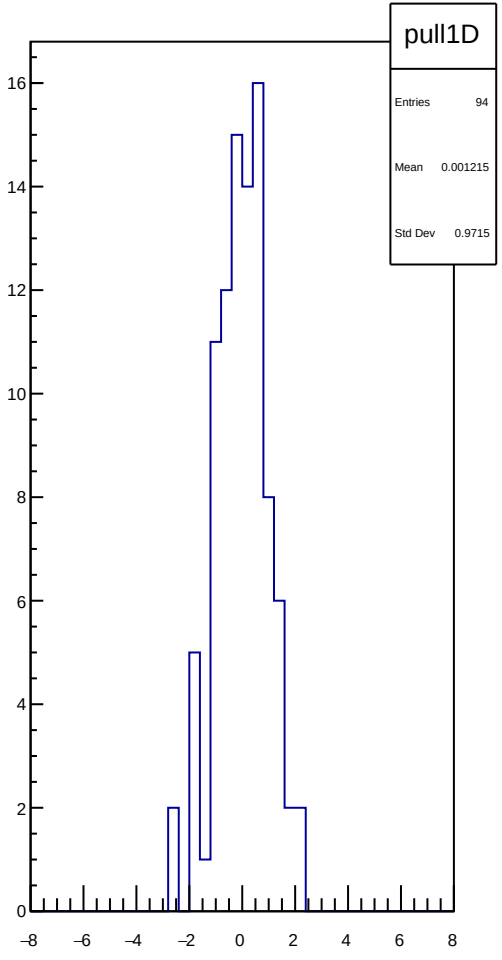

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.231e+04 / 93
p0 304.3 ± 0.2279
380
360
340
320
300
280
260

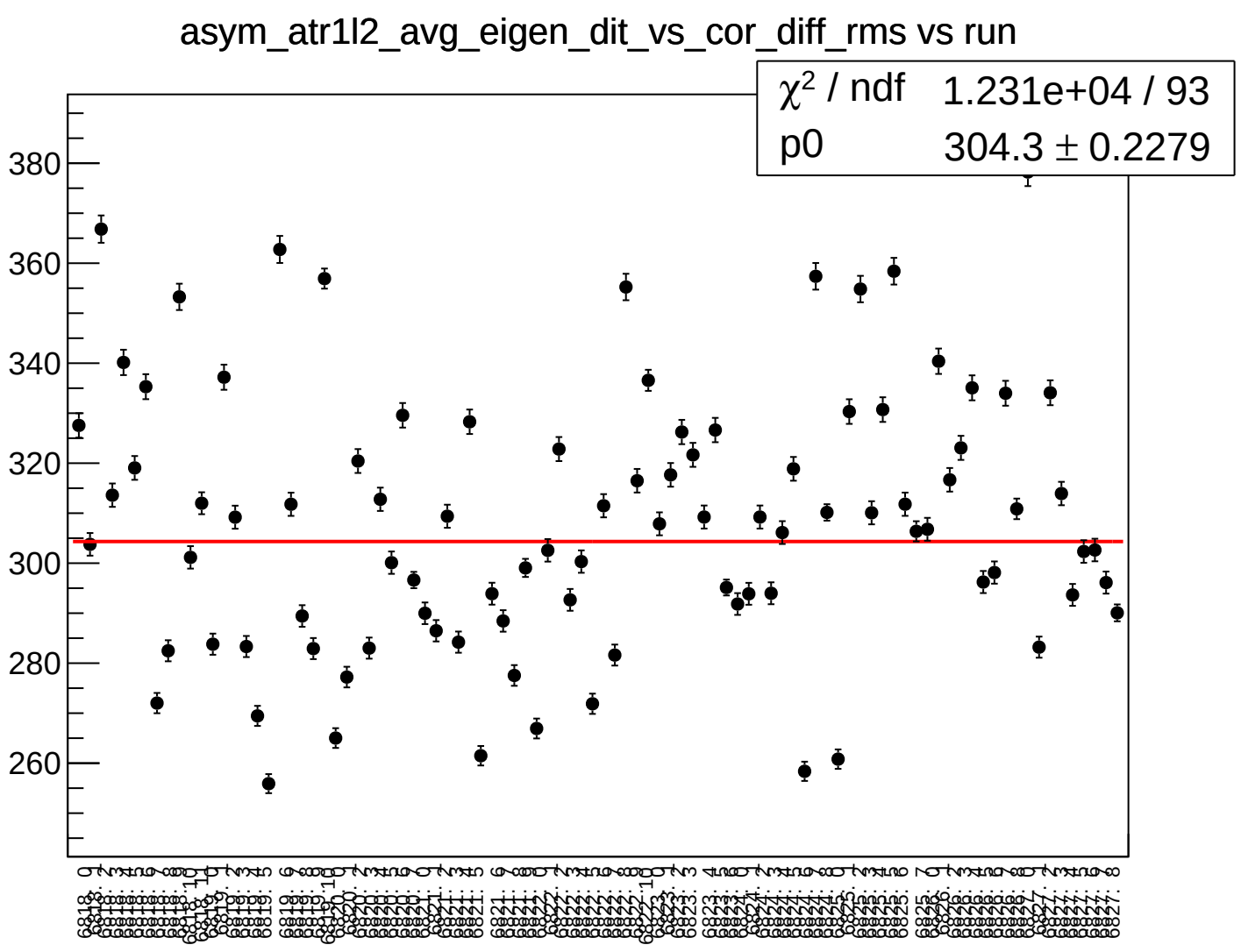

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81 / 93
p0 −6.153e−06 ± 3.365e−06
pull
Entries 94
Mean −436.6
Std Dev 0

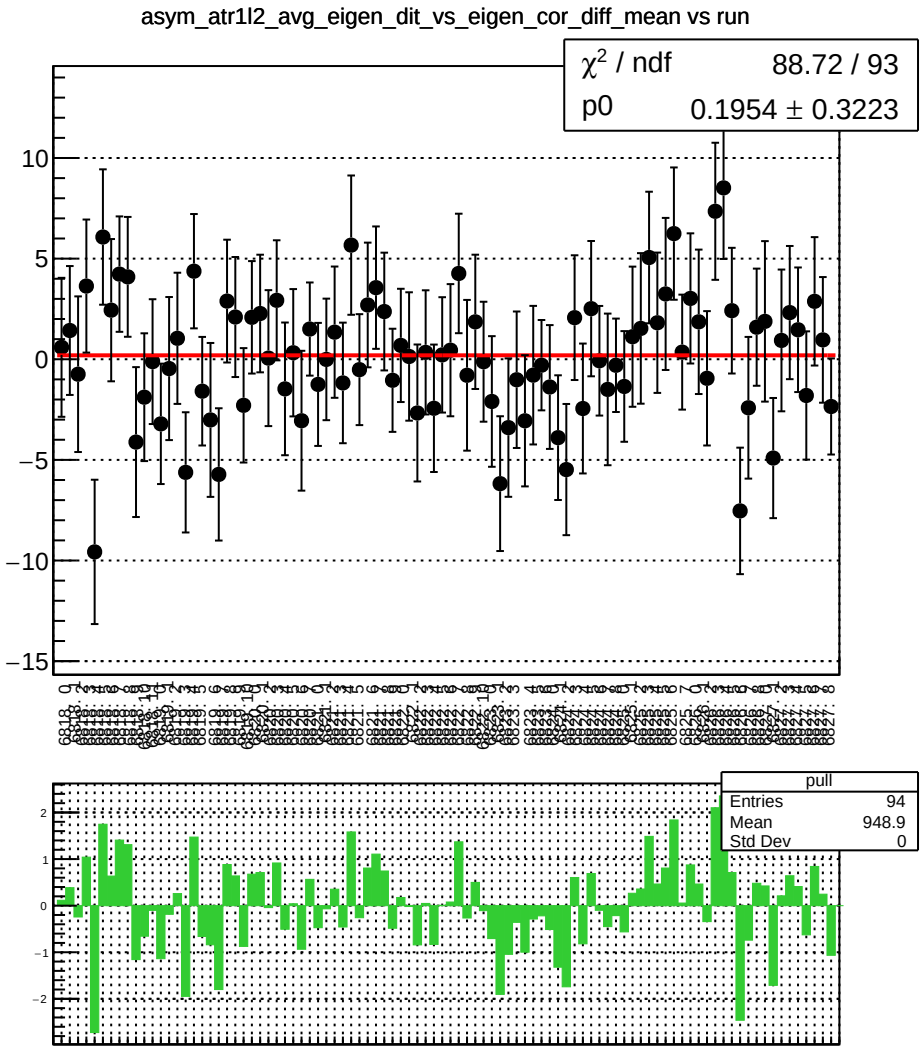

pull1D
Entries 94
Mean −0.005889
Std Dev 0.9283

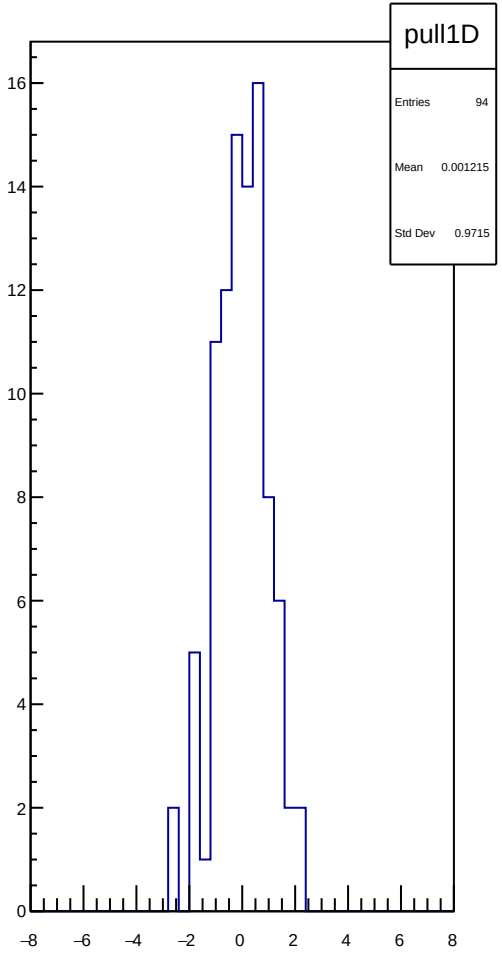

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2790 / 93
p0 0.003186 ± 2.38e−06
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029

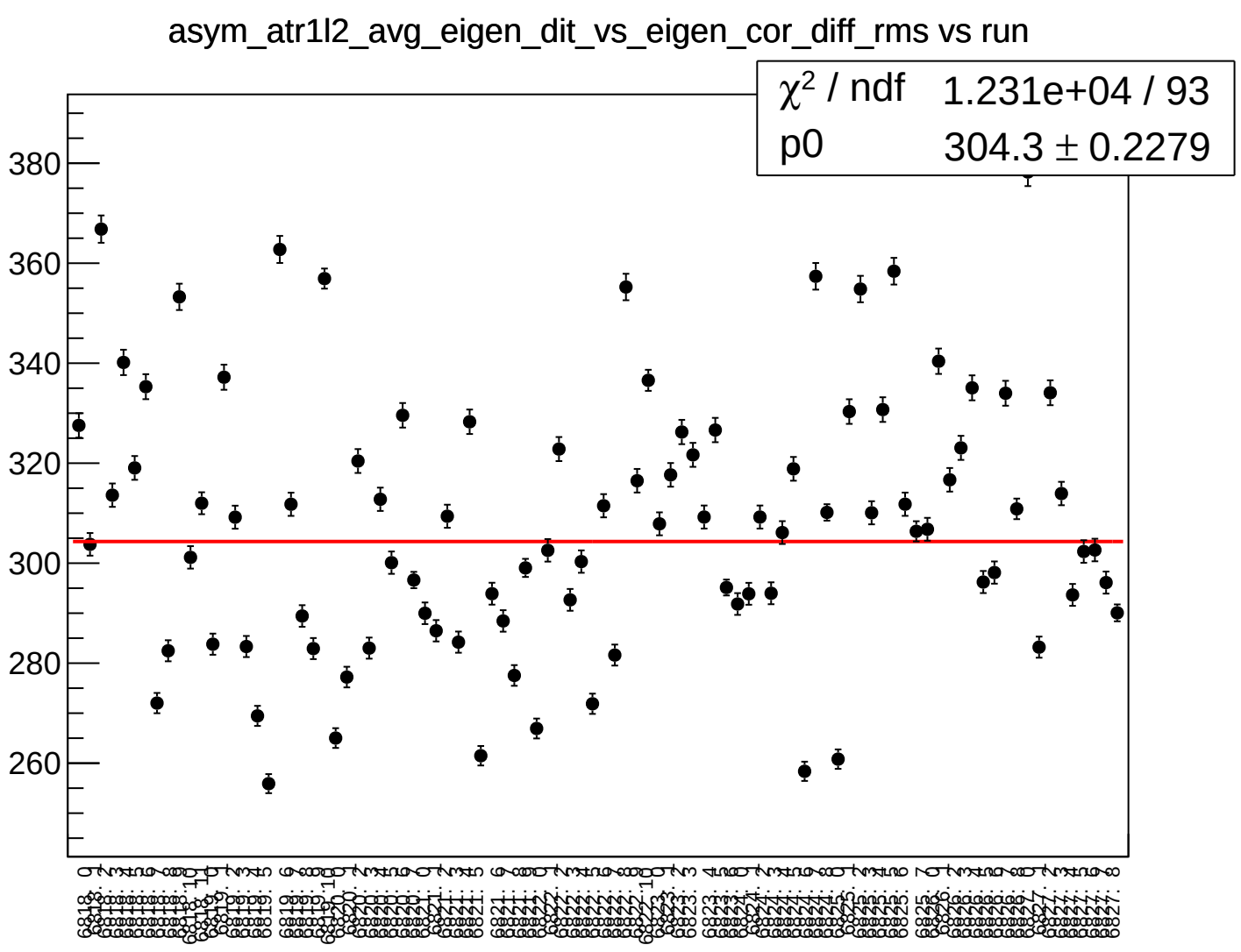

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.72 / 93
p0 0.1954 ± 0.3223
pull
Entries 94
Mean 948.9
Std Dev 0

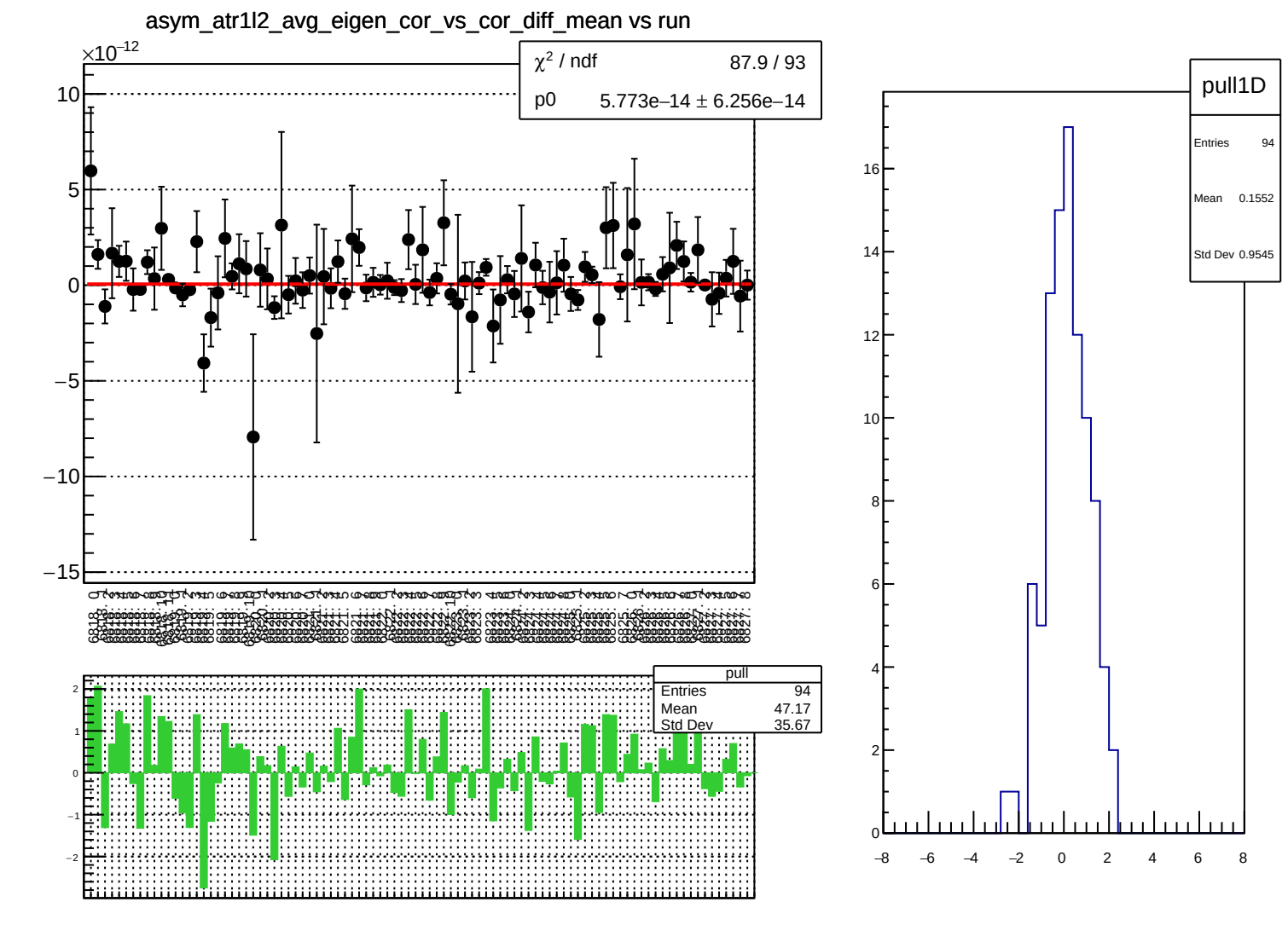

pull1D
Entries 94
Mean 0.001215
Std Dev 0.9715

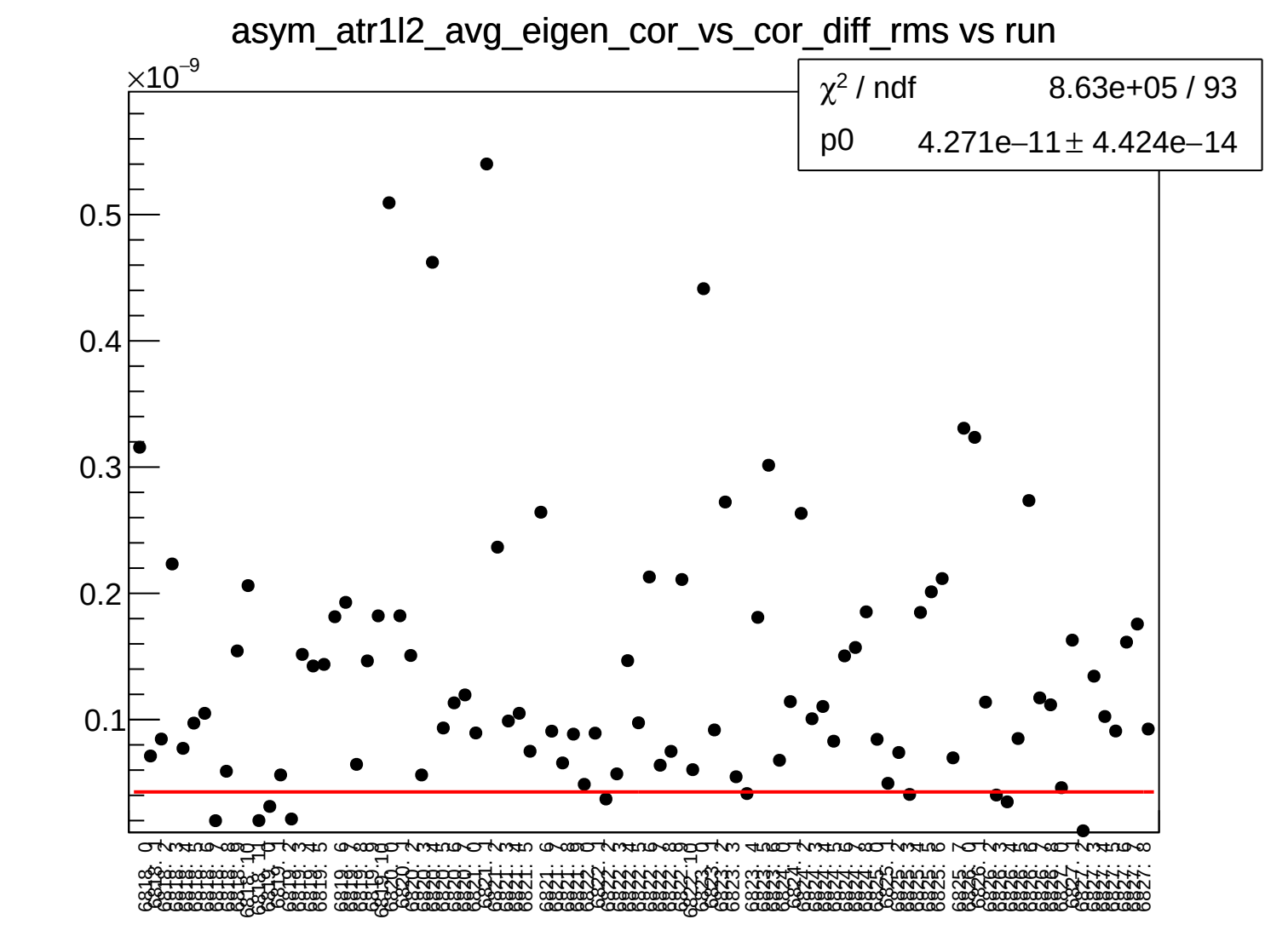

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.231e+04 / 93
p0 304.3 ± 0.2279
380
360
340
320
300
280
260

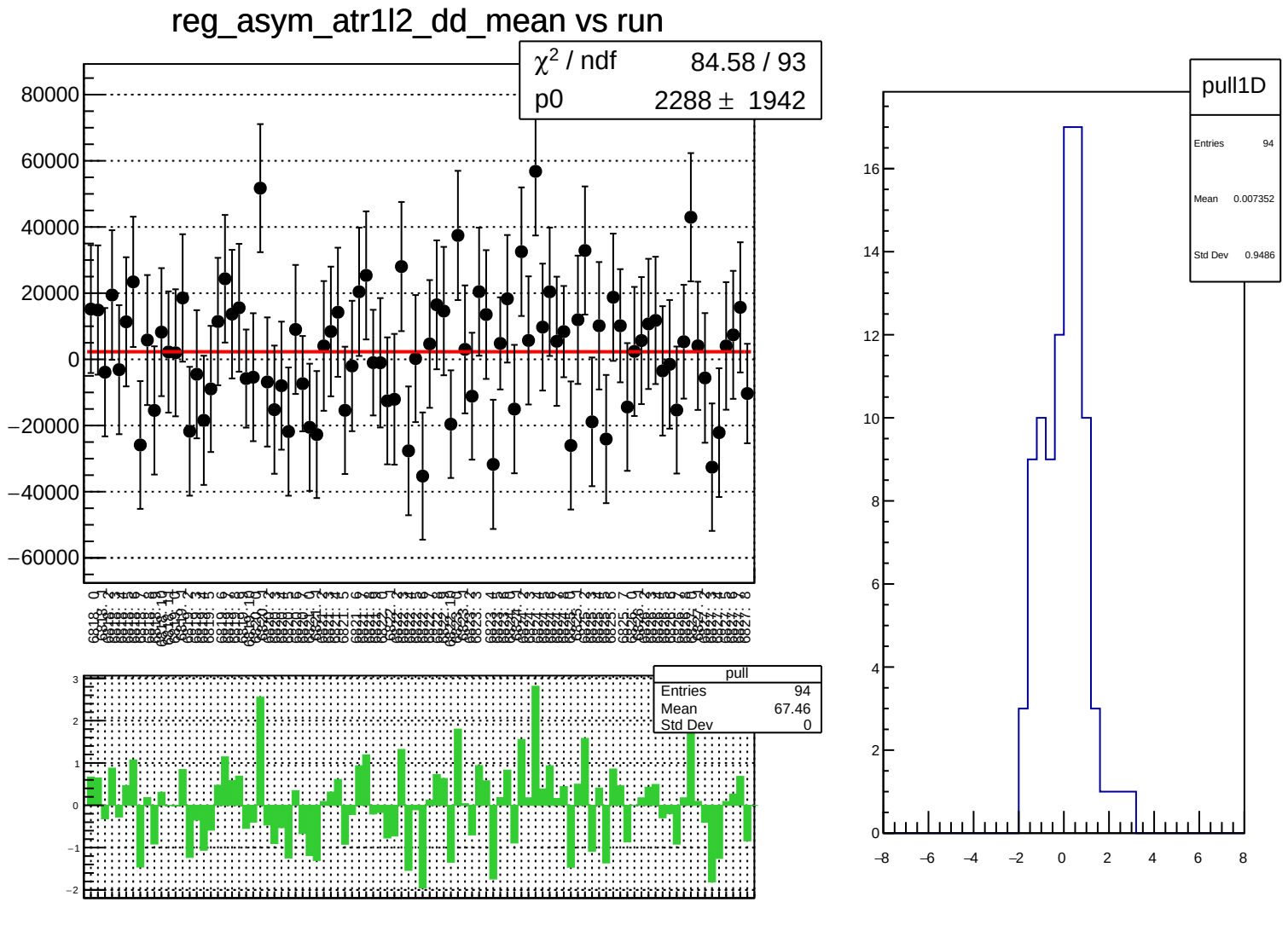

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.72 / 93
p0 0.1954 ± 0.3223
pull
Entries 94
Mean 948.9
Std Dev 0

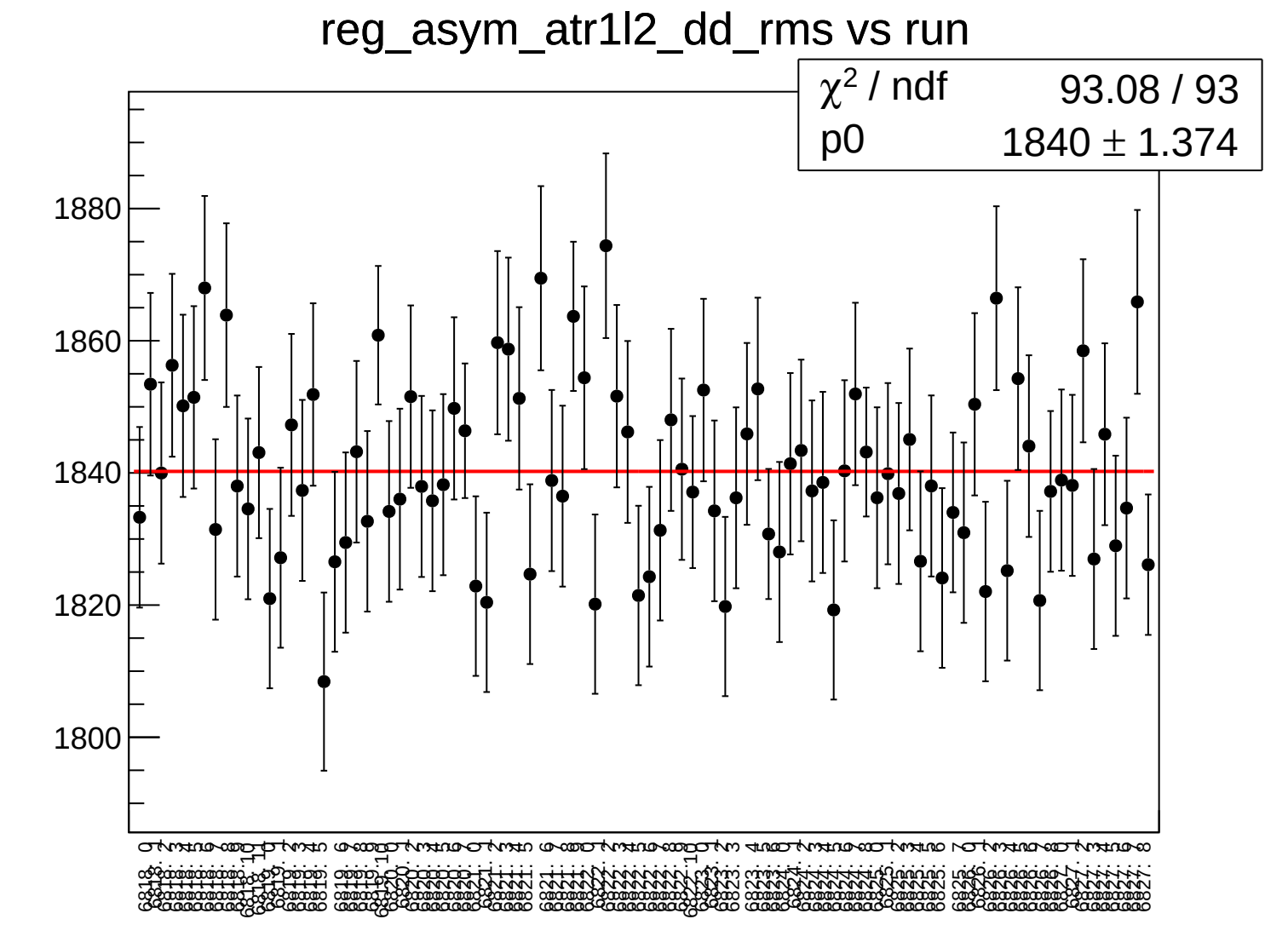

pull1D
Entries 94
Mean 0.001215
Std Dev 0.9715

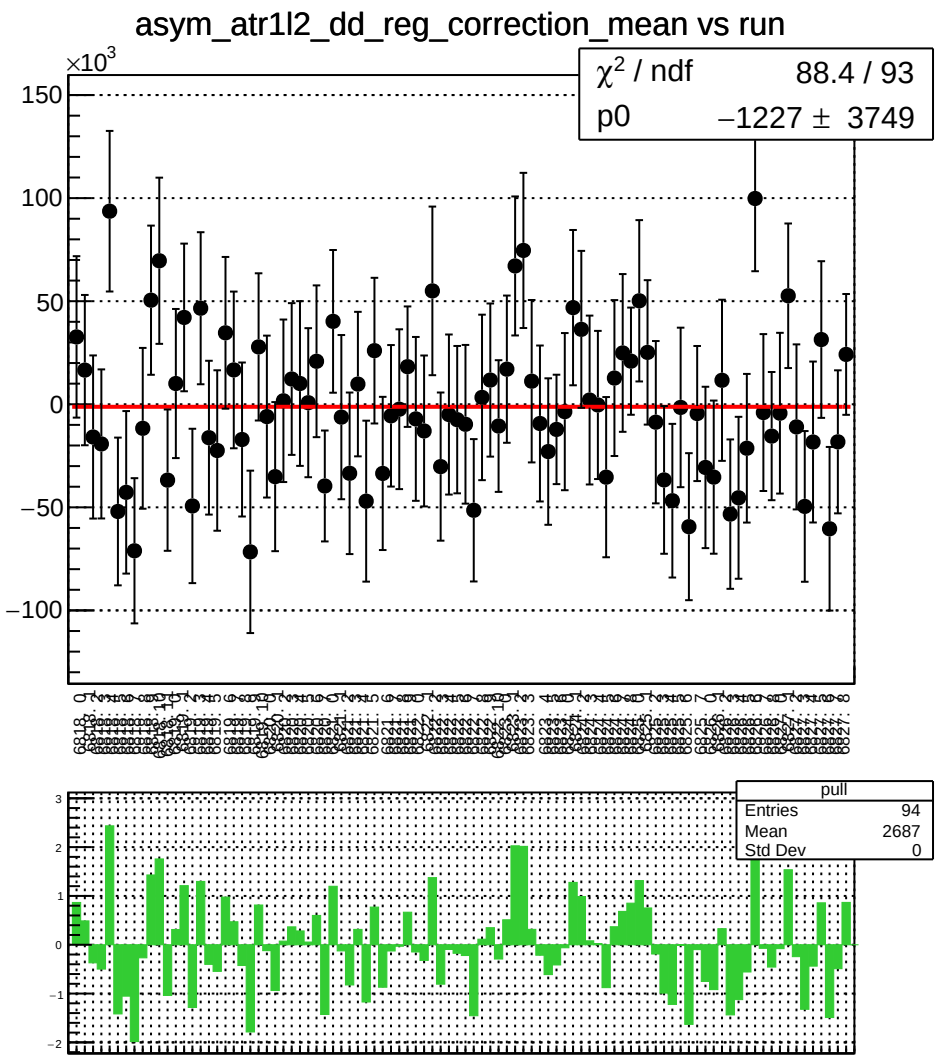

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.231e+04 / 93
p0 304.3 ± 0.2279
380
360
340
320
300
280
260

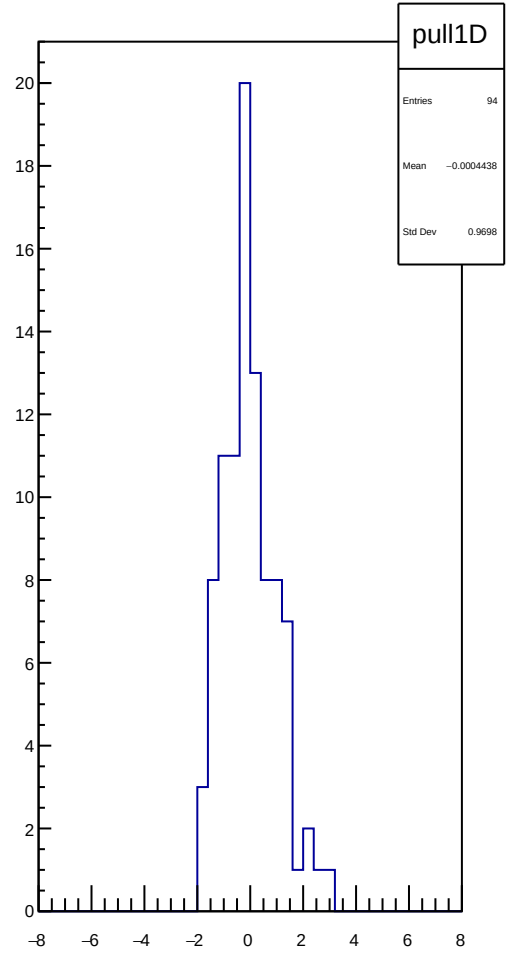

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.9 / 93
p0 5.773e−14 ± 6.256e−14
pull
Entries 94
Mean 47.17
Std Dev 35.67
pull1D
Entries 94
Mean 0.1552
Std Dev 0.9545

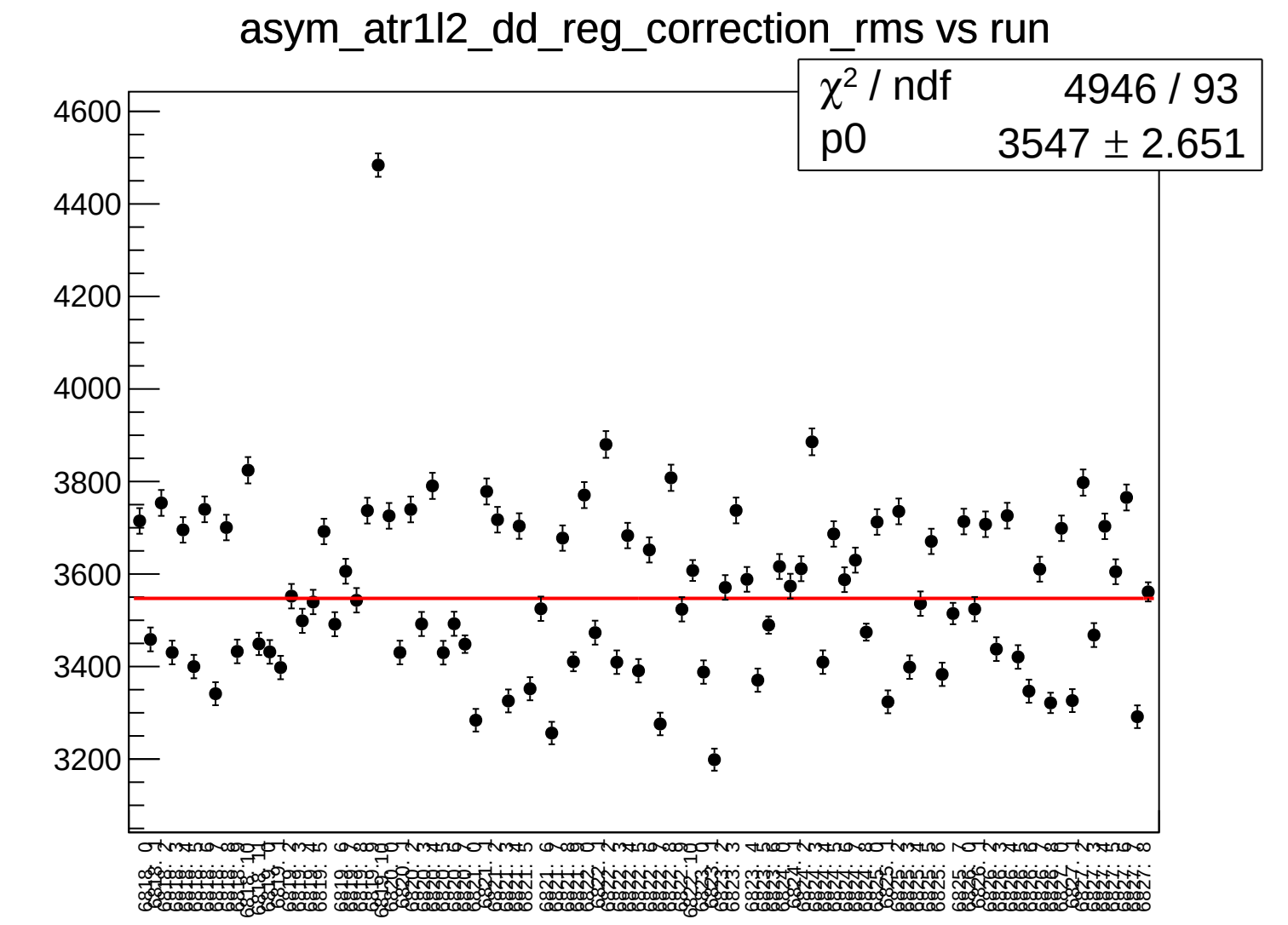

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.63e+05 / 93
p0 4.271e−11 ± 4.424e−14
0.5
0.4
0.3
0.2
0.1

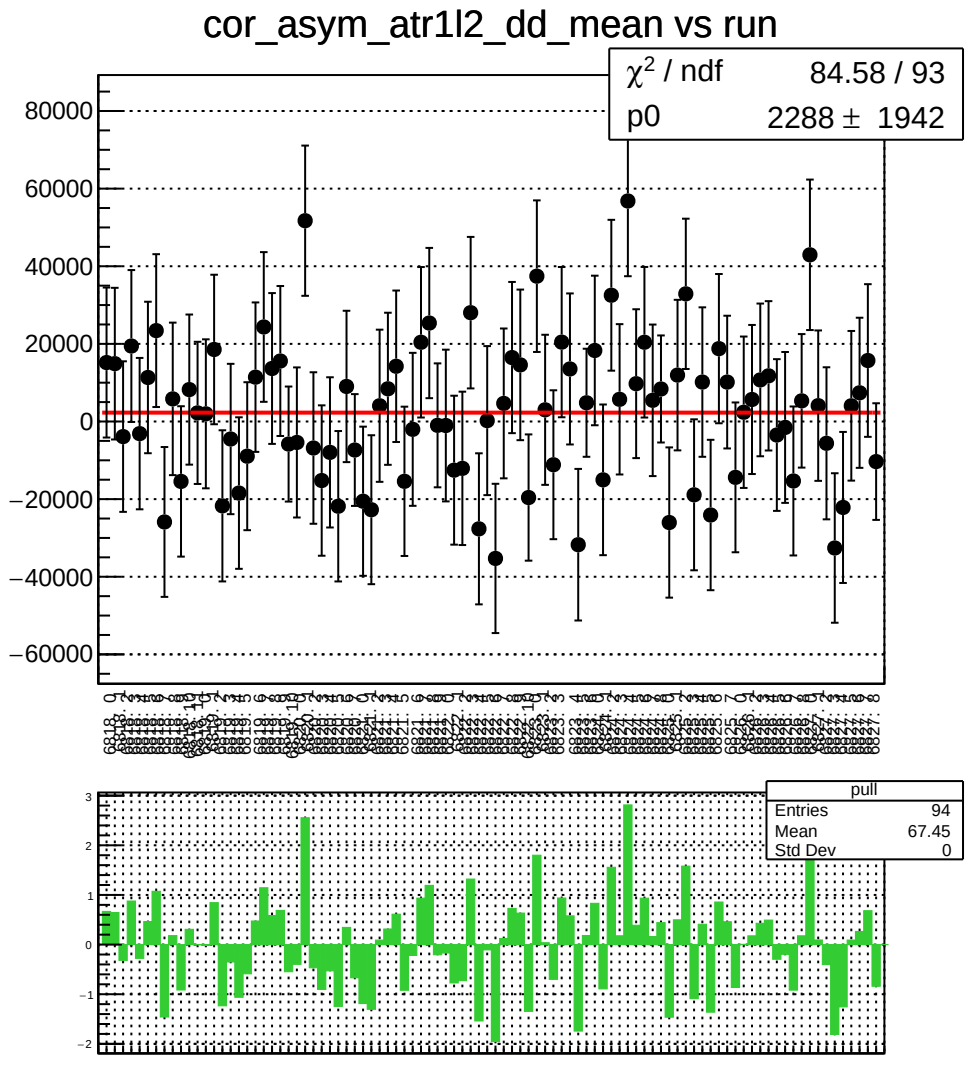

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 84.58 / 93
p0 2288 ± 1942
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 67.46
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.007352
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

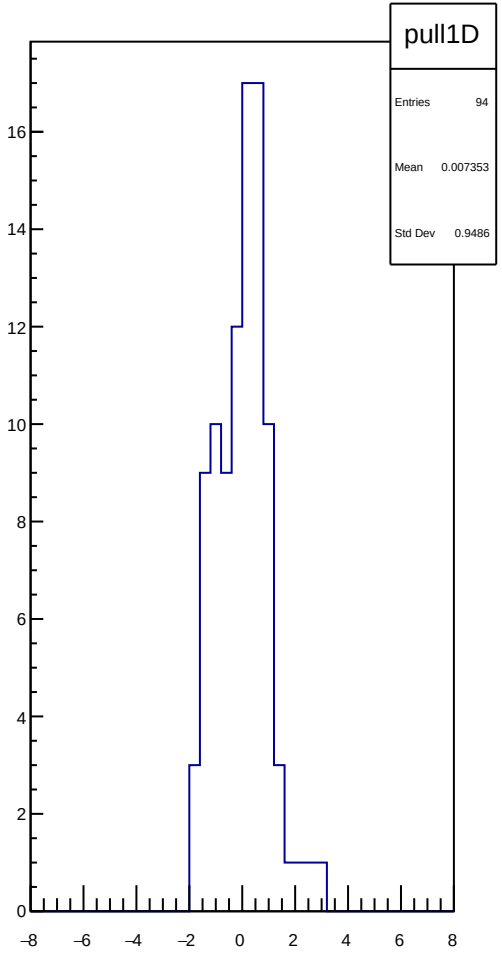

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 93.08 / 93
p0 1840 ± 1.374
1880
1860
1840
1820
1800

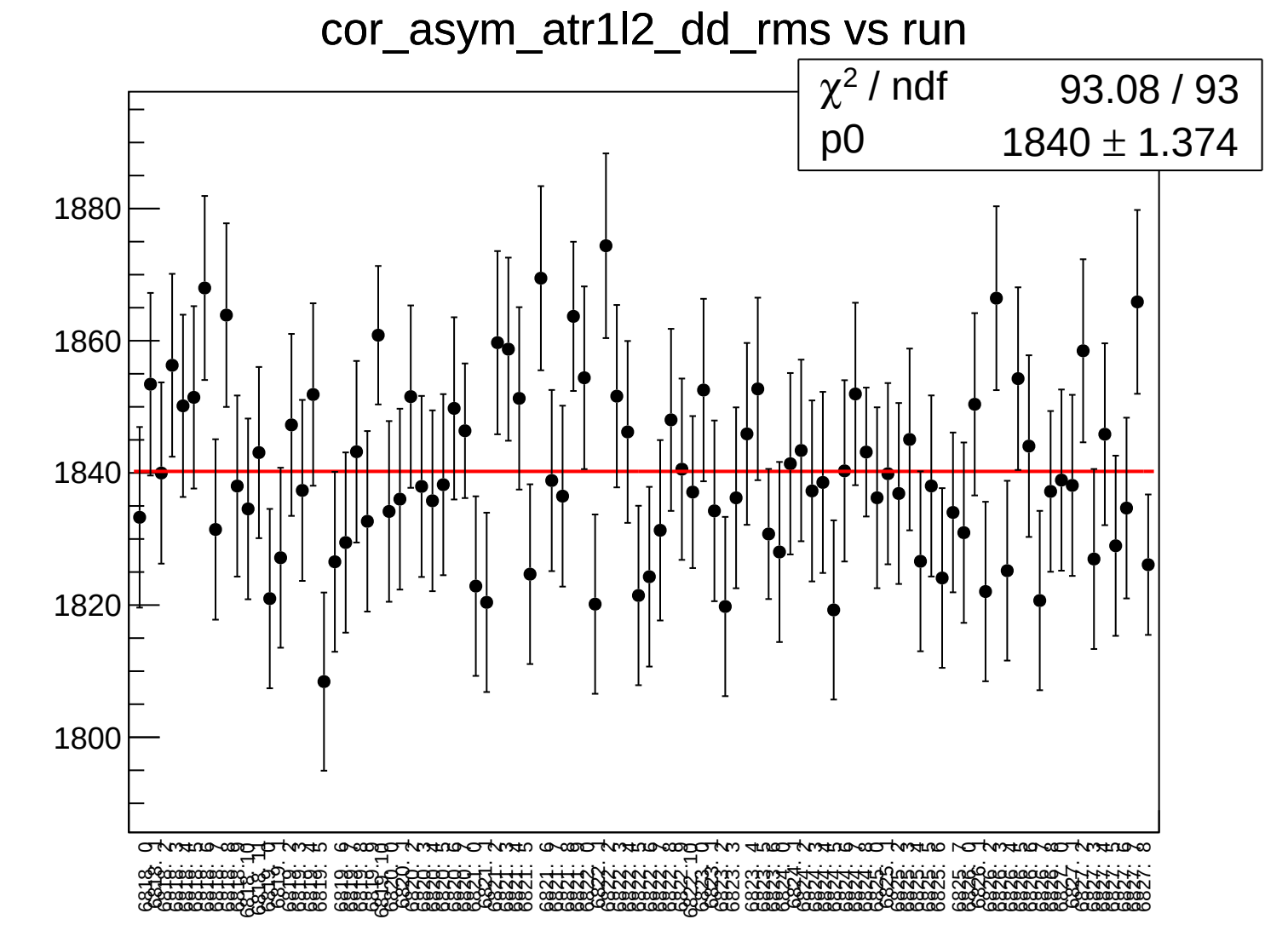

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.4 / 93
p0 −1227 ± 3749
150
100
50
0
−50
−100
pull
Entries 94
Mean 2687
Std Dev 0
3
2
1
0
−1
−2

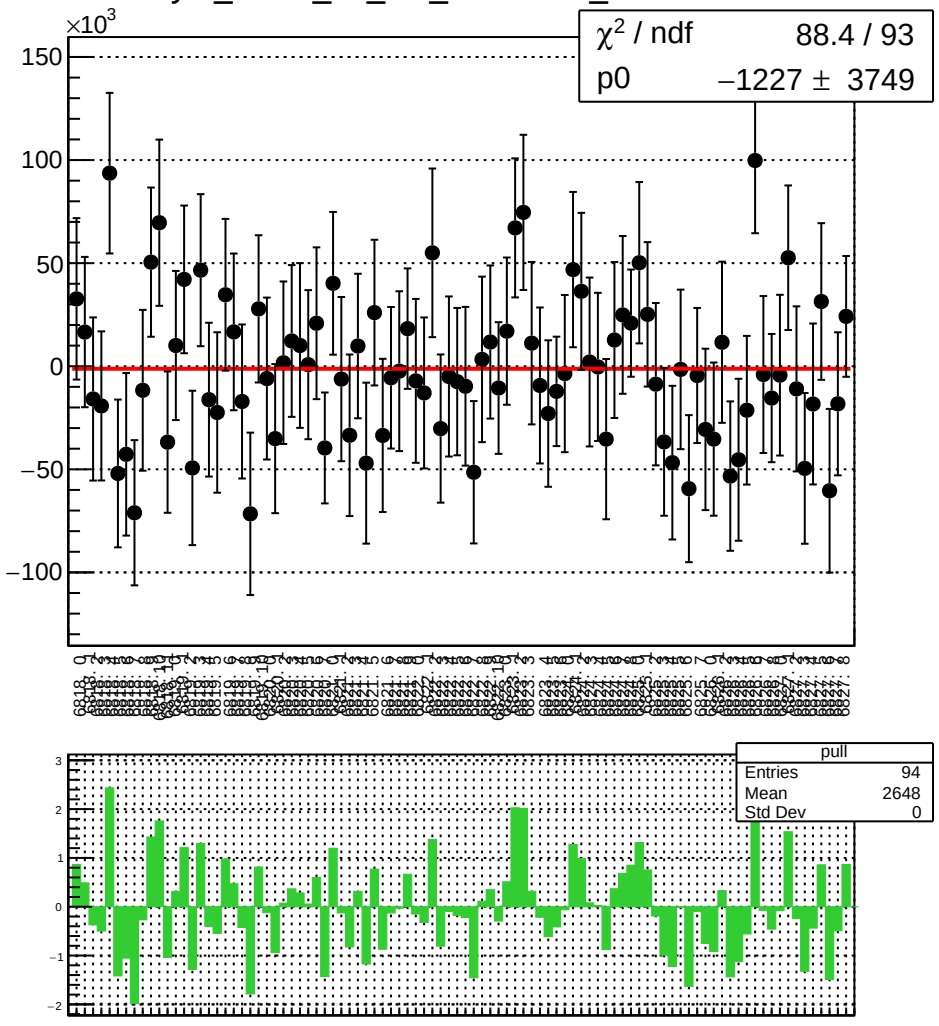

pull1D
Entries 94
Mean −0.0004438
Std Dev 0.9698
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

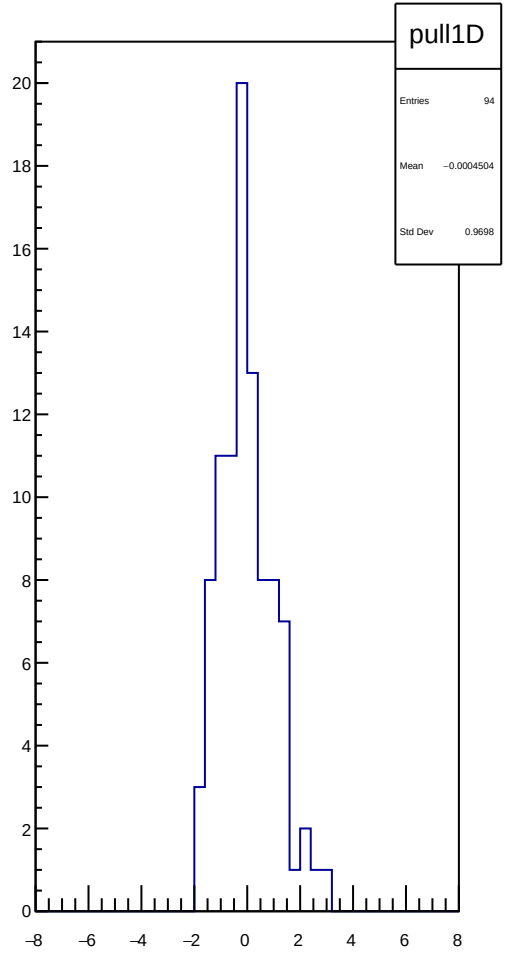

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 4946 / 93
p0 3547 ± 2.651
4600
4400
4200
4000
3800
3600
3400
3200

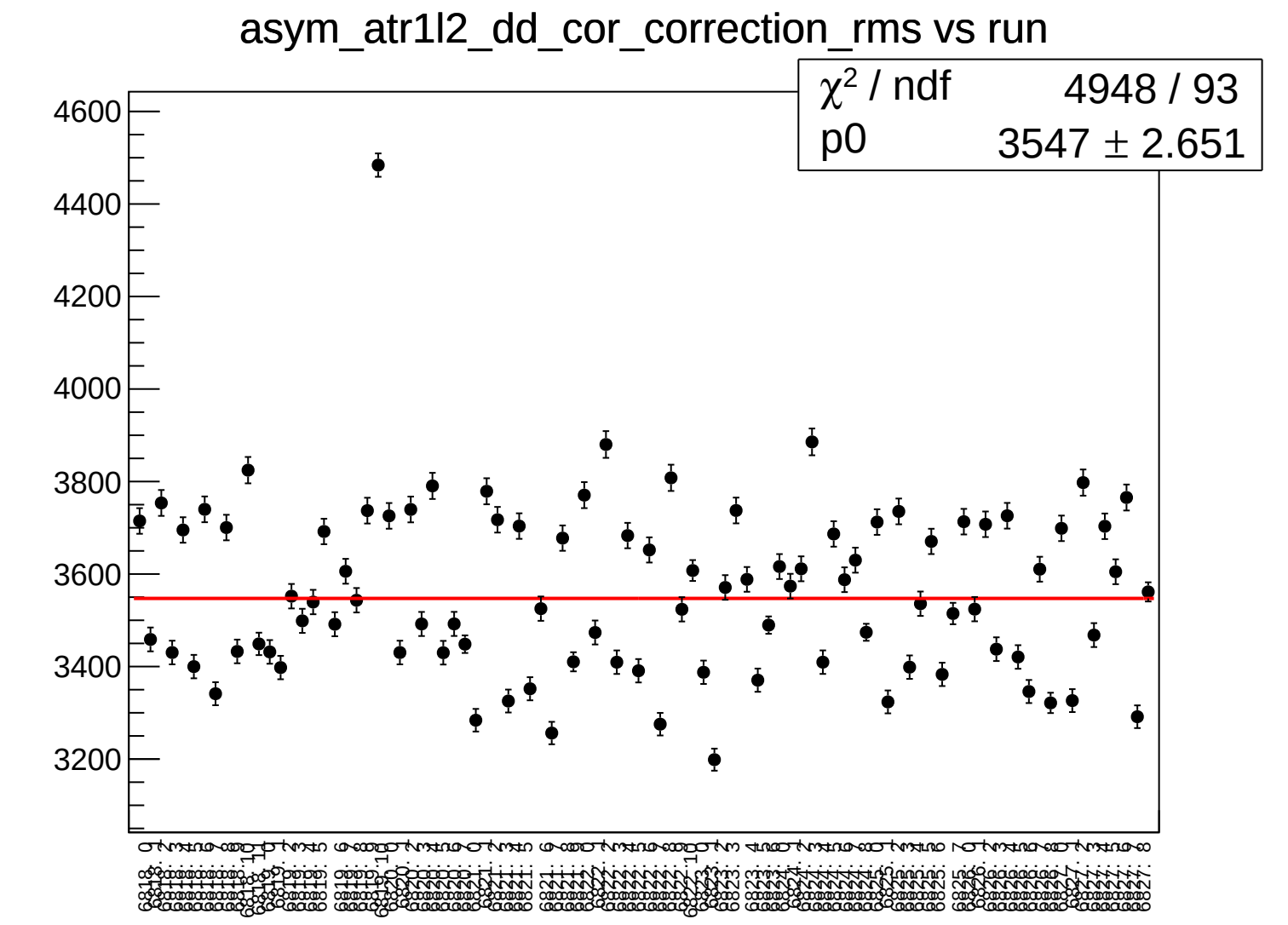

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.58 / 93
p0 2288 ± 1942
pull
Entries 94
Mean 67.45
Std Dev 0

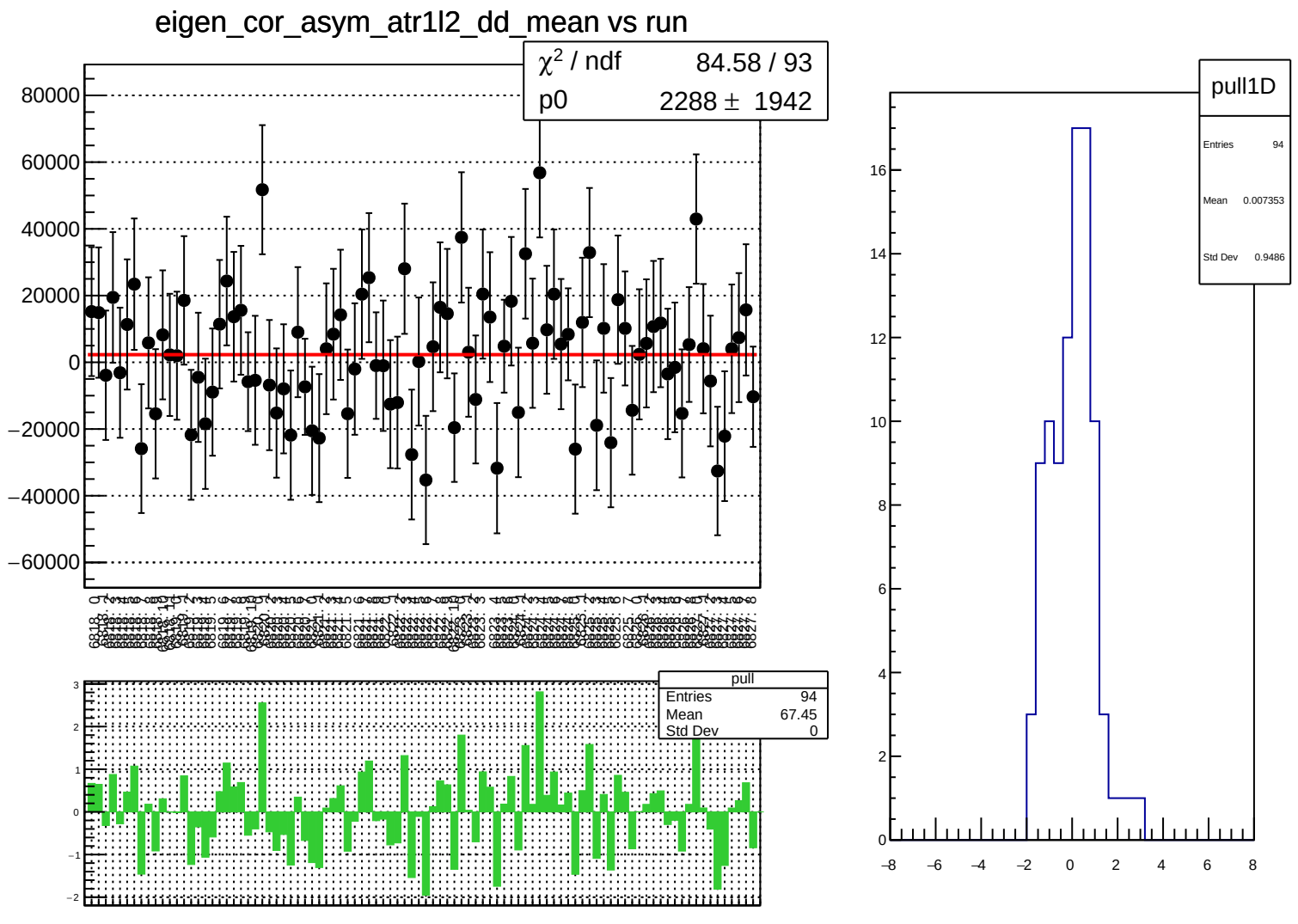

pull1D
Entries 94
Mean 0.007353
Std Dev 0.9486

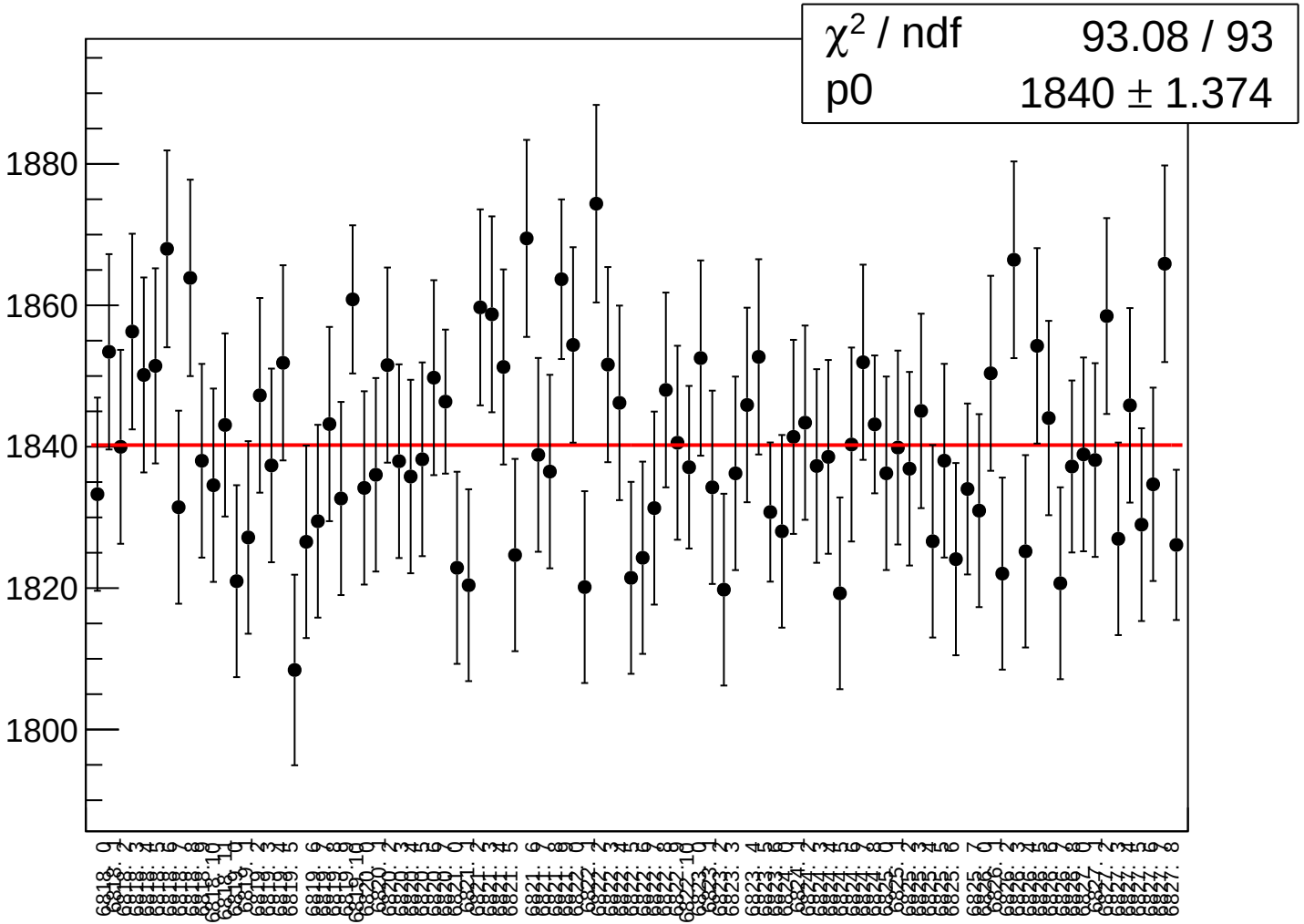

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 93.08 / 93
p0 1840 ± 1.374
1880
1860
1840
1820
1800

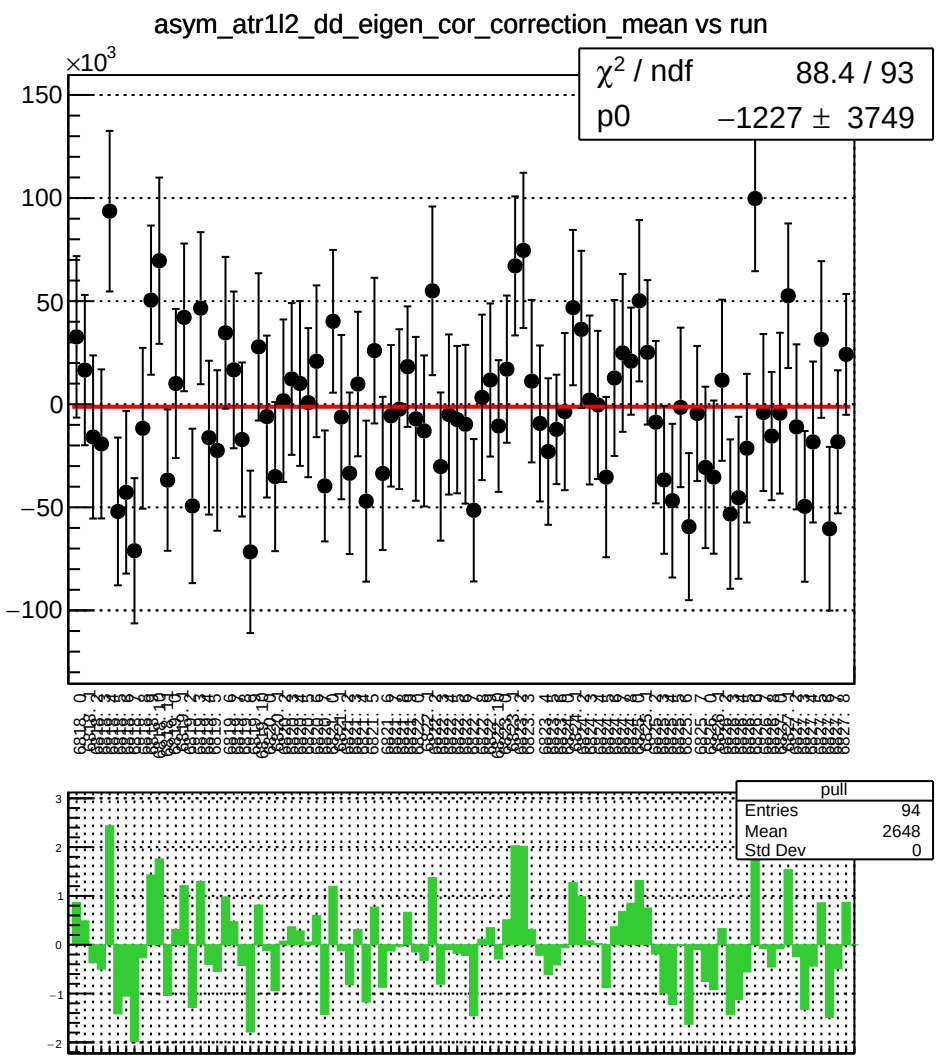

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.4 / 93
p0 −1227 ± 3749
150
100
50
0
−50
−100
pull
Entries 94
Mean 2648
Std Dev 0
3
2
1
0
−1
−2

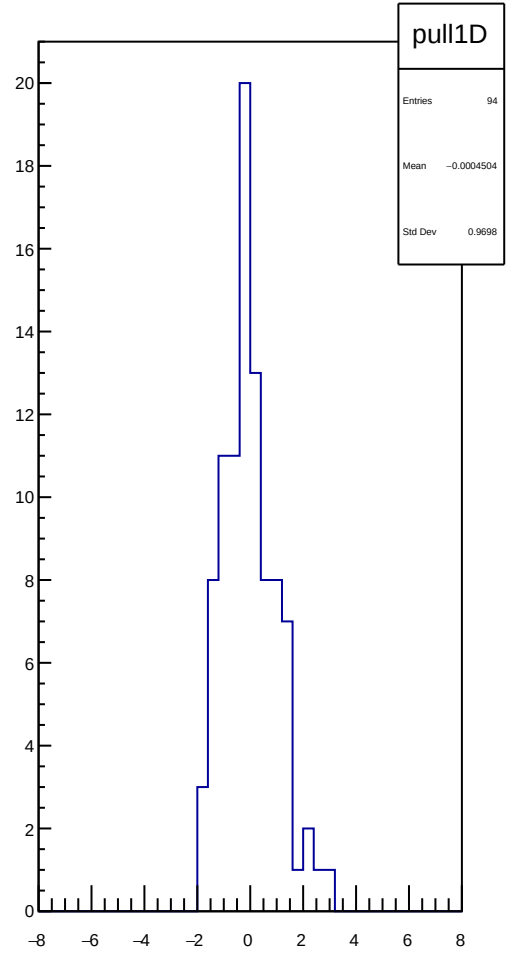

pull1D
Entries 94
Mean −0.0004504
Std Dev 0.9698
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

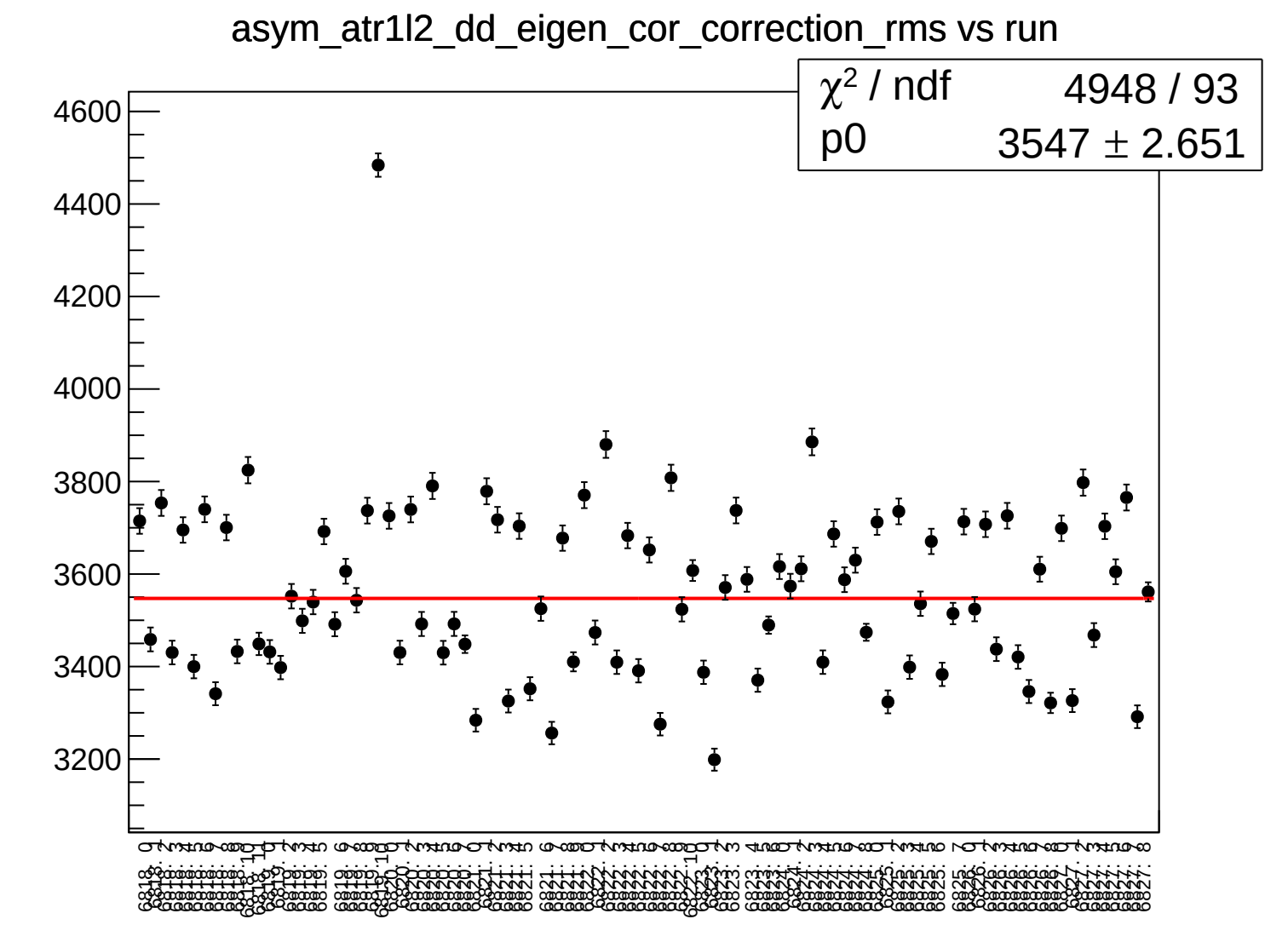

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 4948 / 93
p0 3547 ± 2.651
4600
4400
4200
4000
3800
3600
3400
3200

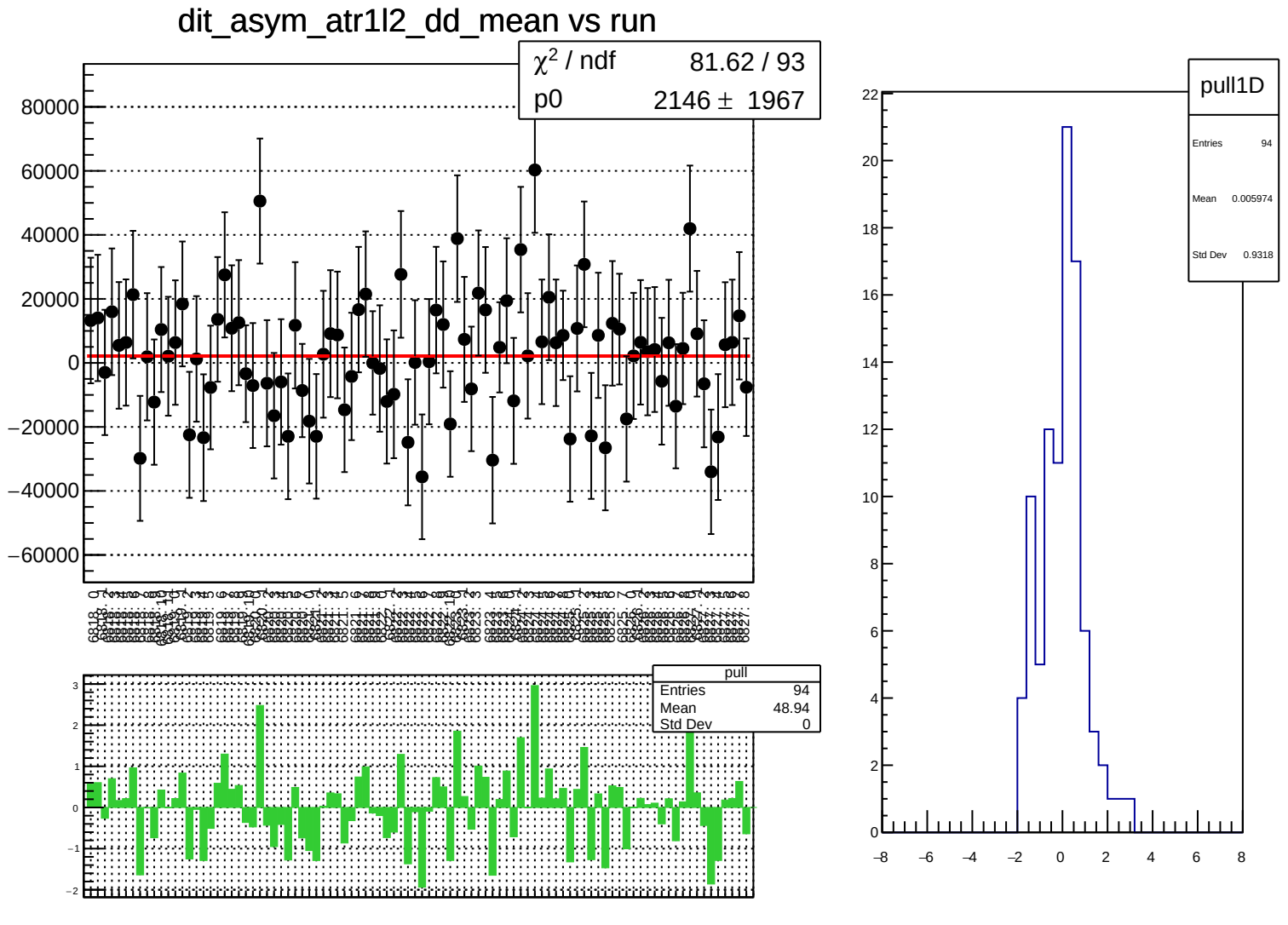

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 84.58 / 93
p0 2288 ± 1942
pull
Entries 94
Mean 67.45
Std Dev 0
pull1D
Entries 94
Mean 0.007353
Std Dev 0.9486

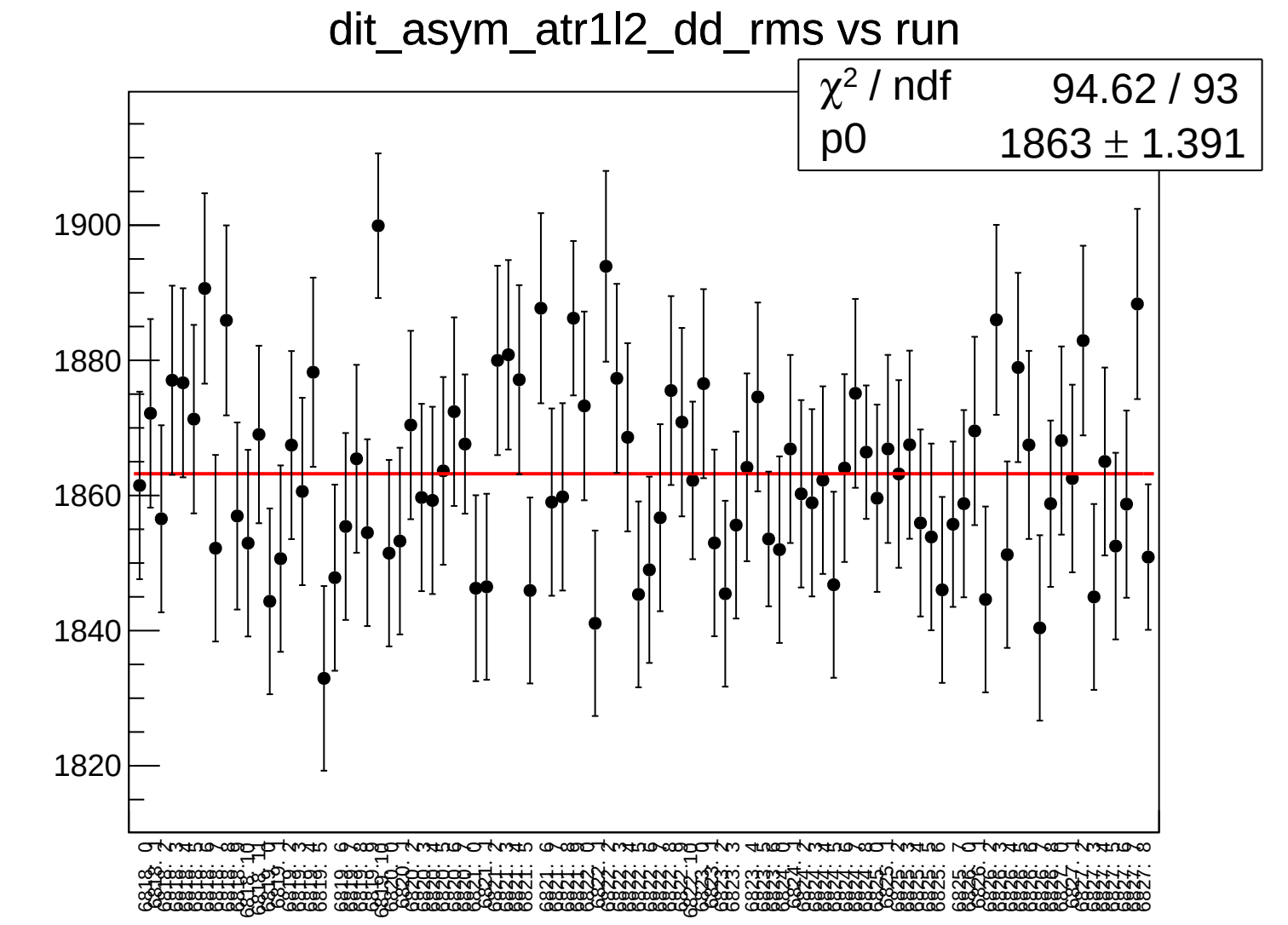

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 93.08 / 93
p0 1840 ± 1.374
1880
1860
1840
1820
1800

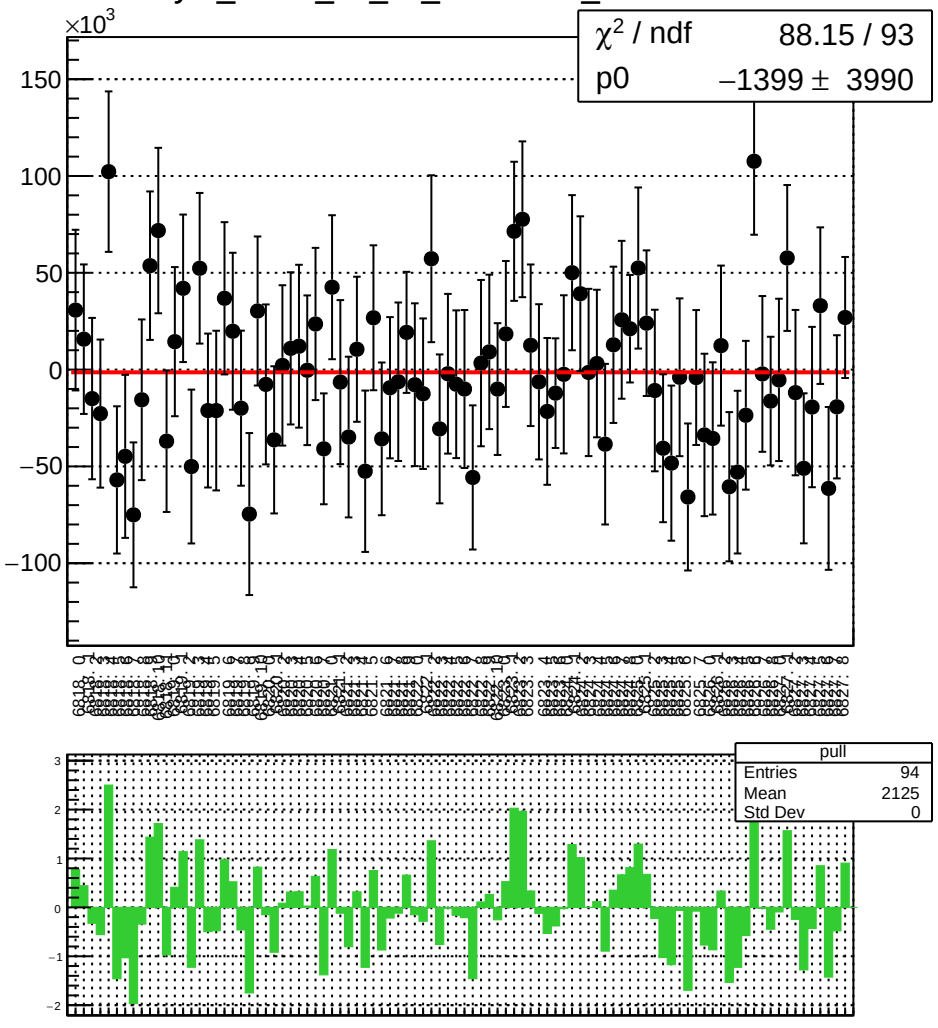

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.4 / 93
p0 −1227 ± 3749
150
100
50
0
−50
−100
pull
Entries 94
Mean 2648
Std Dev 0
3
2
1
0
−1
−2

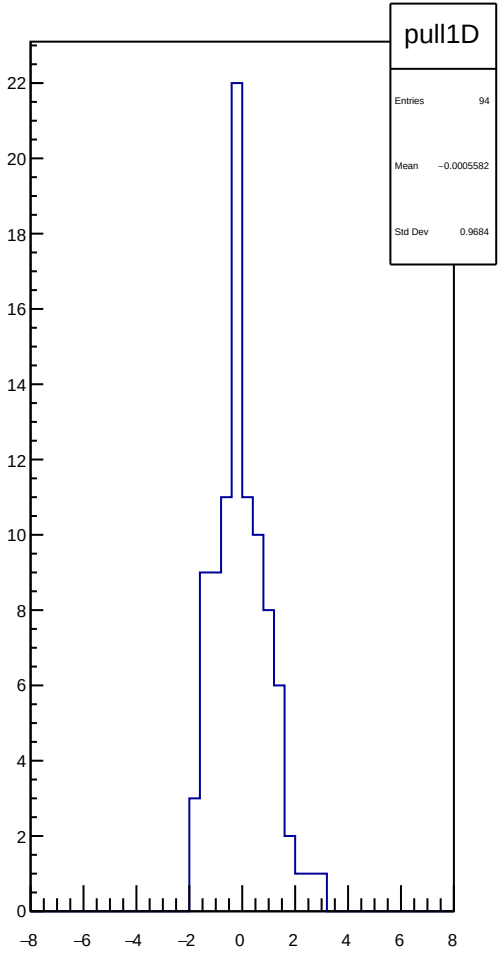

pull1D
Entries 94
Mean −0.0004504
Std Dev 0.9698
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

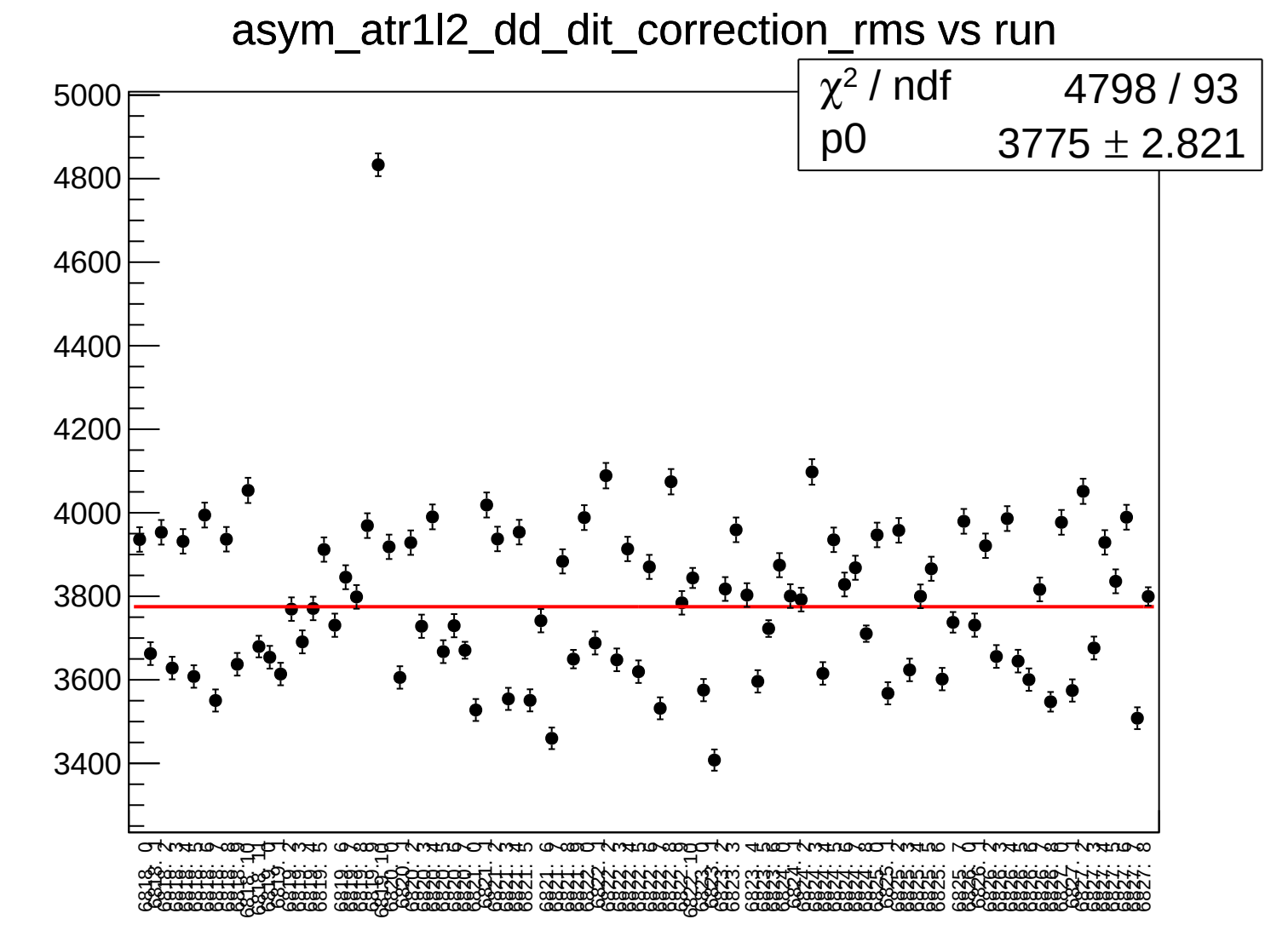

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4948 / 93
p0 3547 ± 2.651
4600
4400
4200
4000
3800
3600
3400
3200

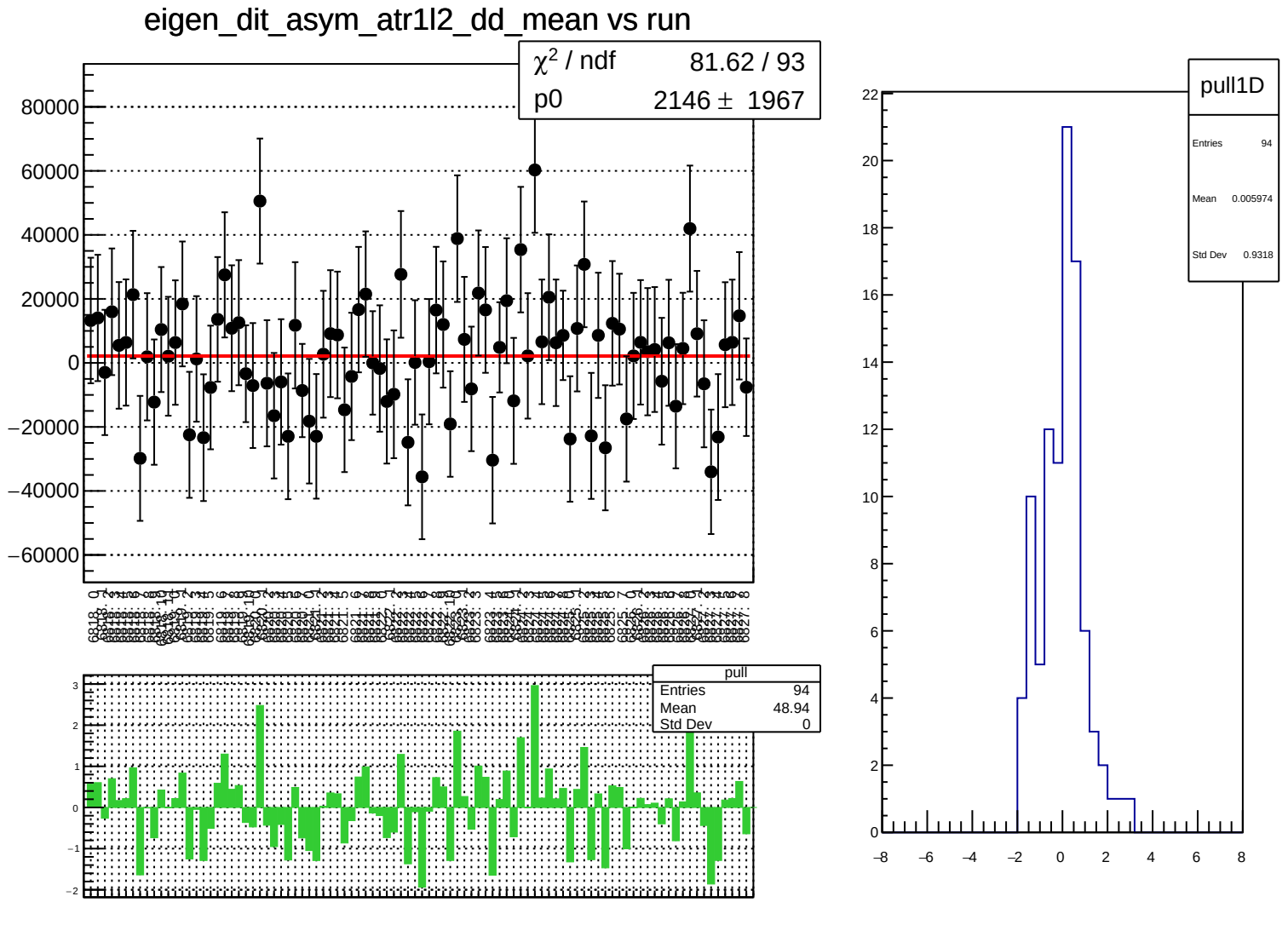

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 81.62 / 93
p0 2146 ± 1967
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 48.94
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005974
Std Dev 0.9318
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

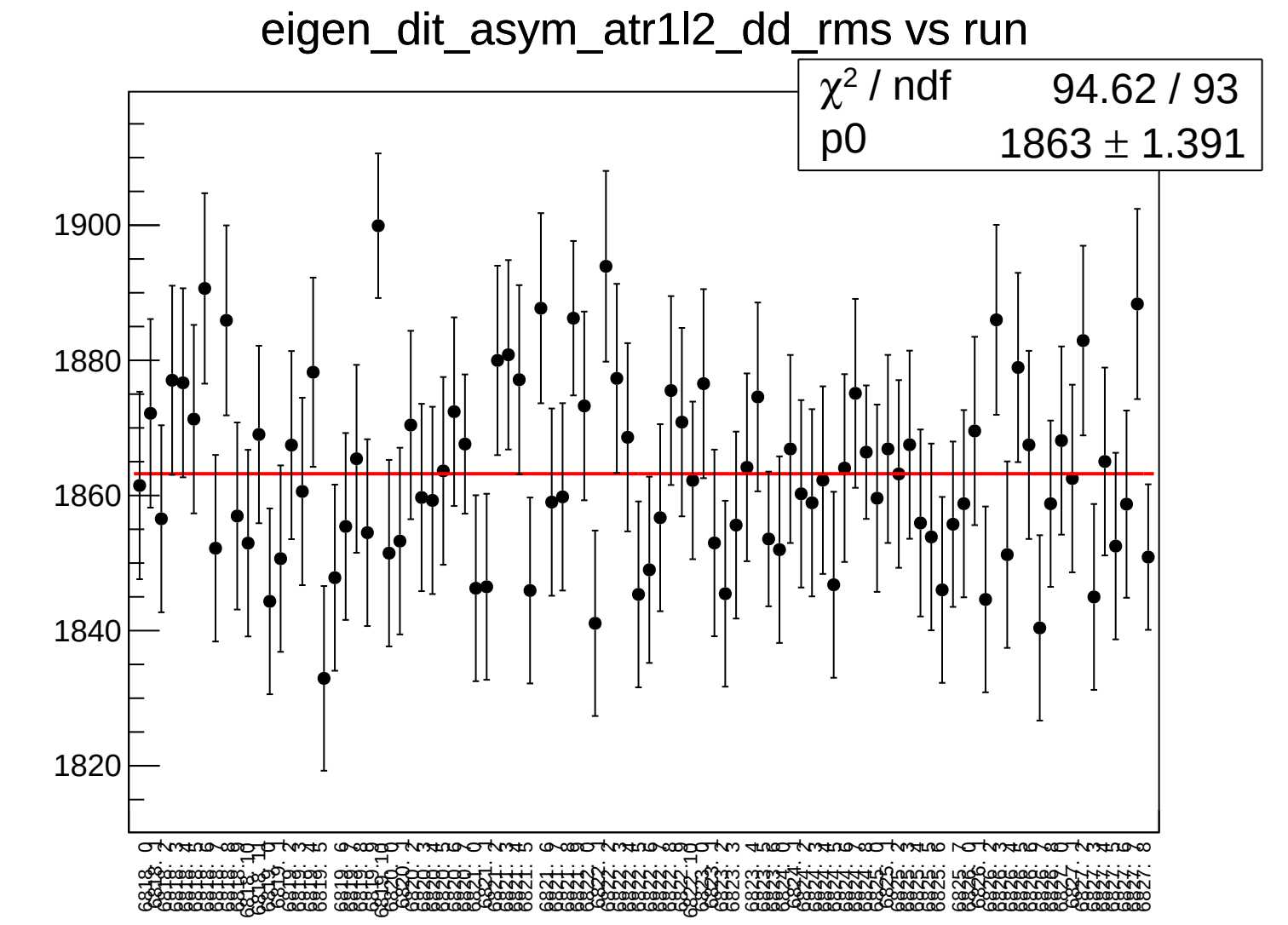

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 94.62 / 93
p0 1863 ± 1.391
1900
1880
1860
1840
1820

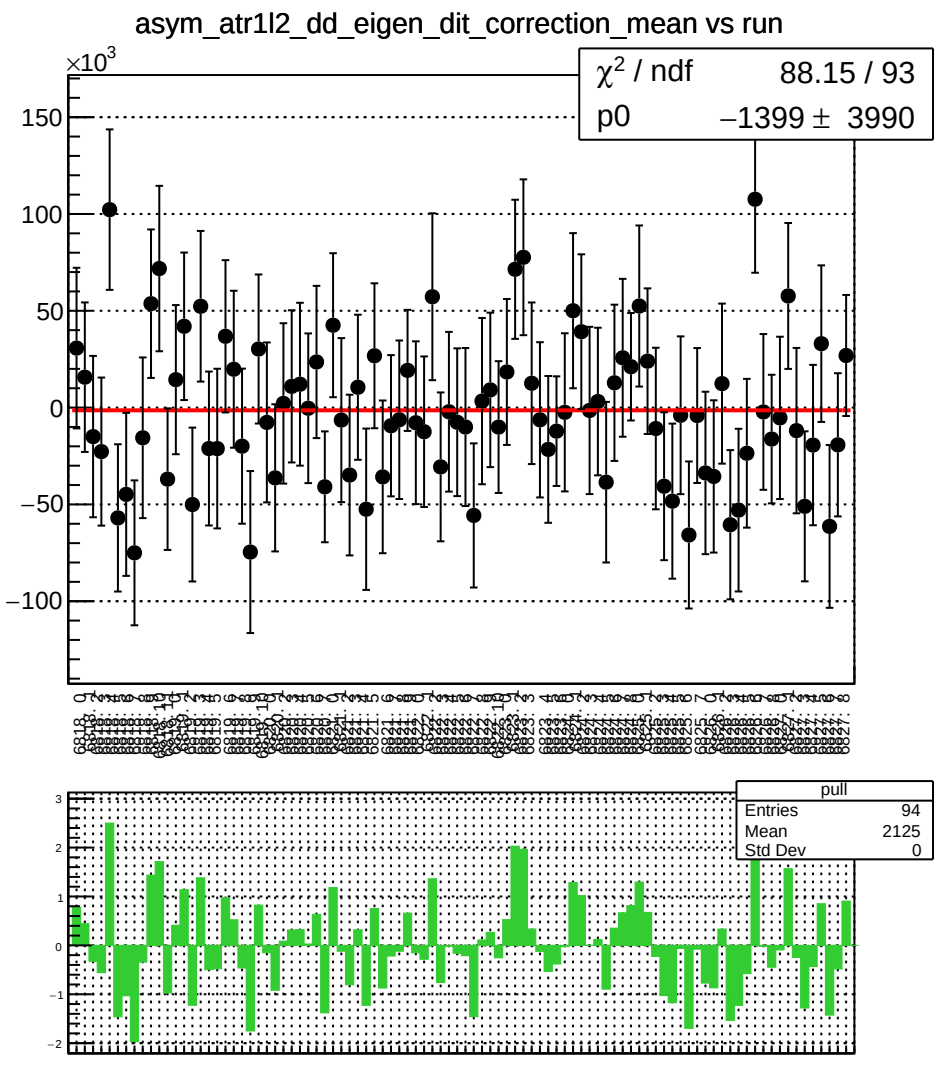

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.15 / 93
p0 −1399 ± 3990
150
100
50
0
−50
−100
pull
Entries 94
Mean 2125
Std Dev 0
3
2
1
0
−1
−2

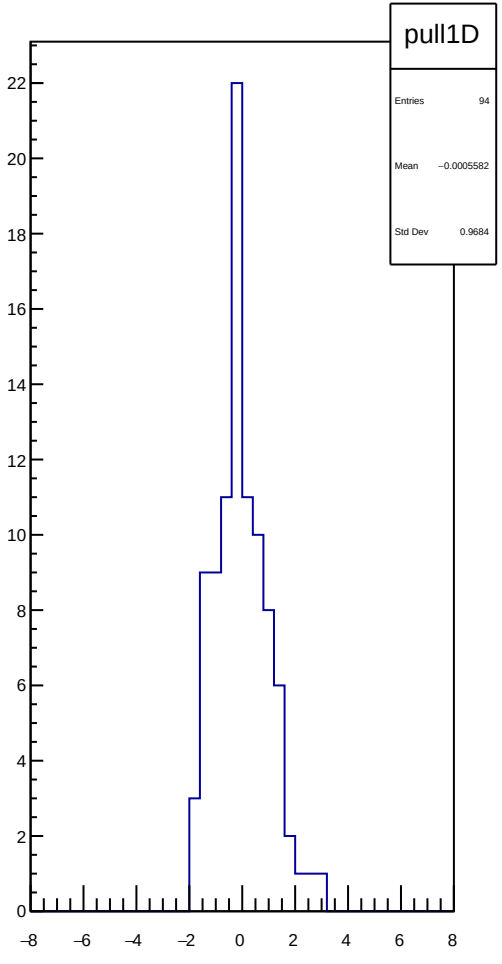

pull1D
Entries 94
Mean −0.0005582
Std Dev 0.9684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

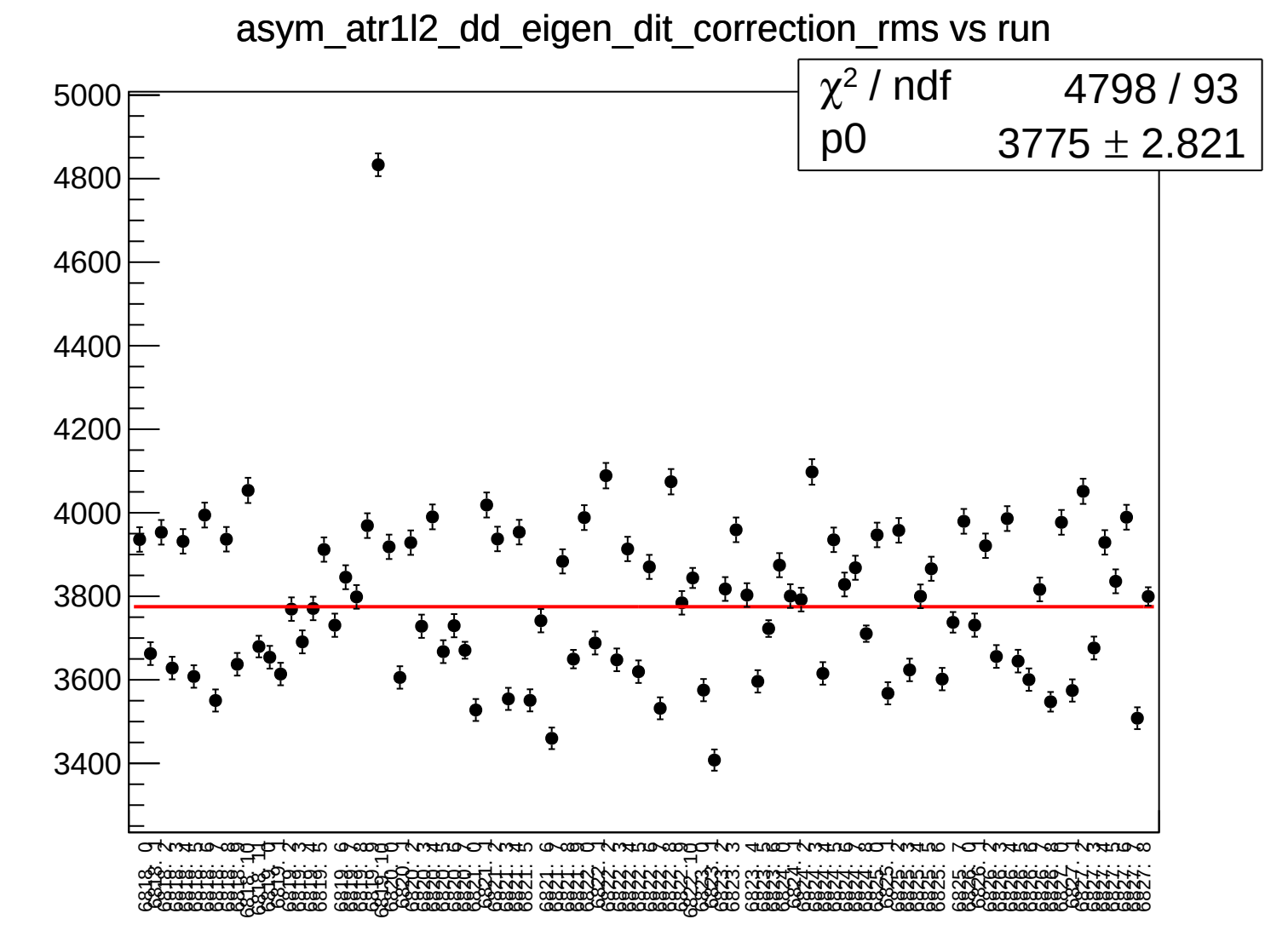

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 4798 / 93
p0 3775 ± 2.821
5000
4800
4600
4400
4200
4000
3800
3600
3400

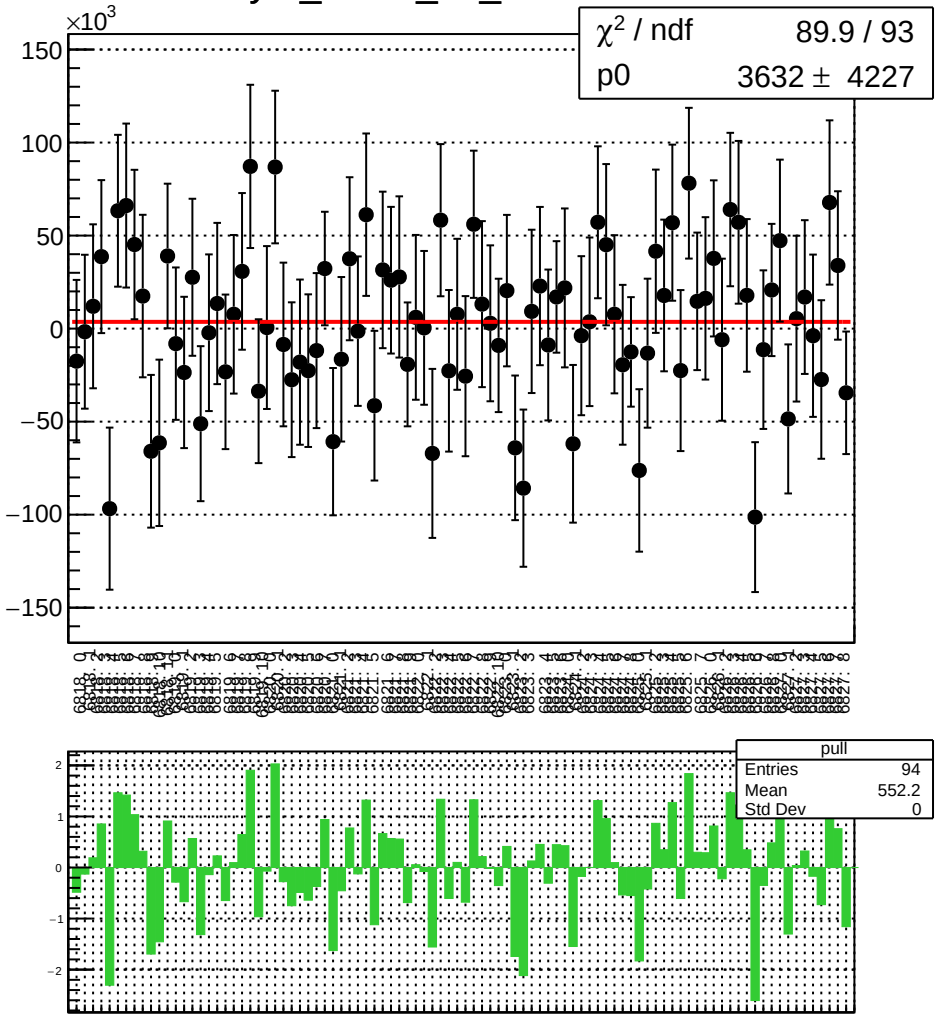

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 81.62 / 93
p0 2146 ± 1967
pull
Entries 94
Mean 48.94
Std Dev 0
pull1D
Entries 94
Mean 0.005974
Std Dev 0.9318

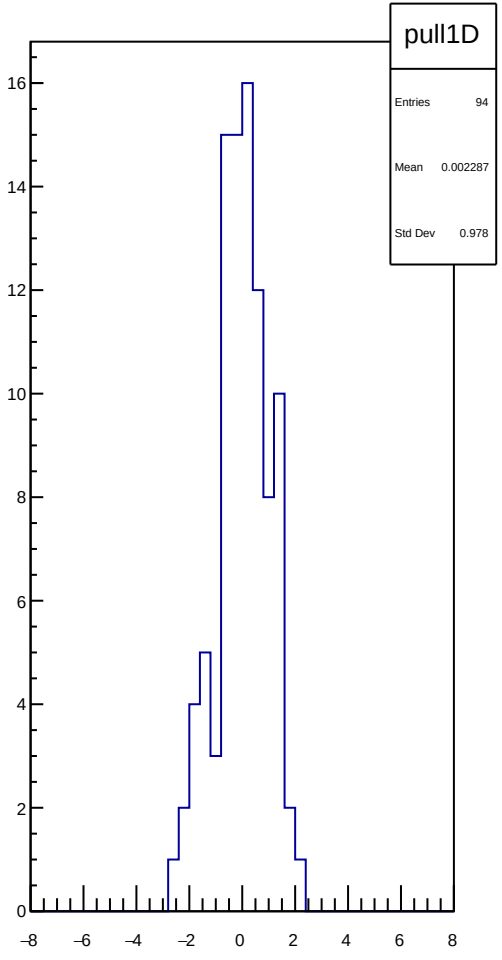

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 94.62 / 93
p0 1863 ± 1.391
1900
1880
1860
1840
1820

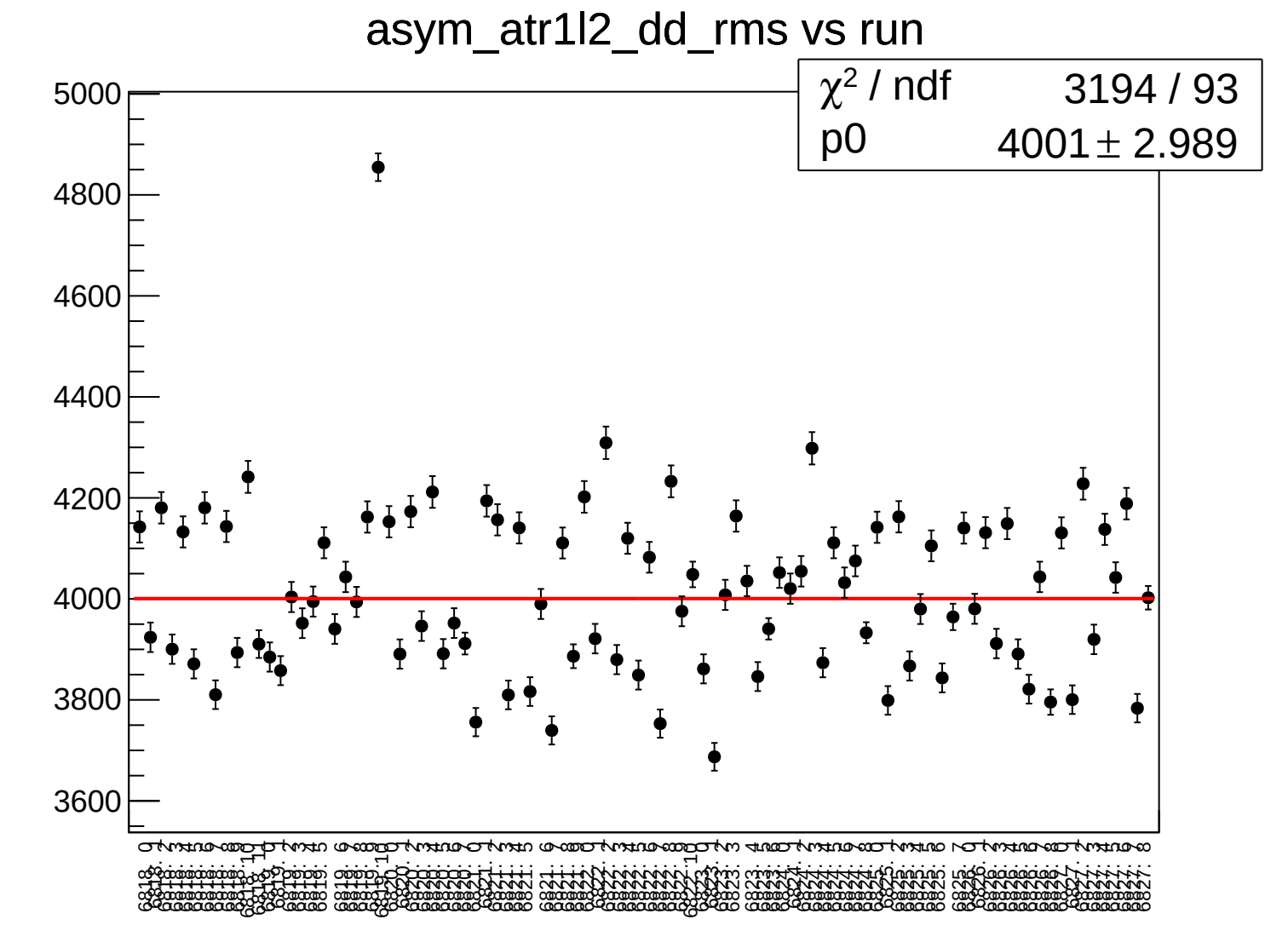

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.15 / 93
p0 −1399 ± 3990
150
100
50
0
−50
−100
pull
Entries 94
Mean 2125
Std Dev 0
3
2
1
0
−1
−2

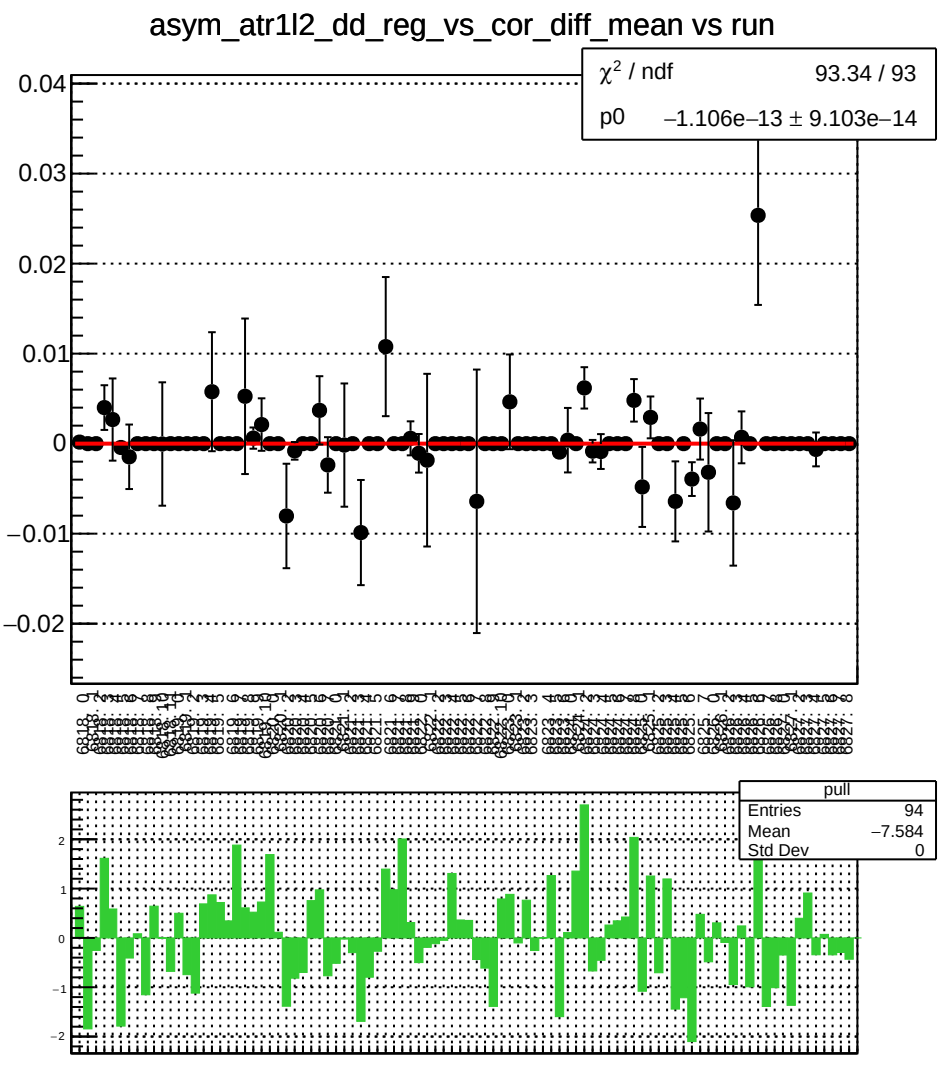

pull1D
Entries 94
Mean −0.0005582
Std Dev 0.9684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

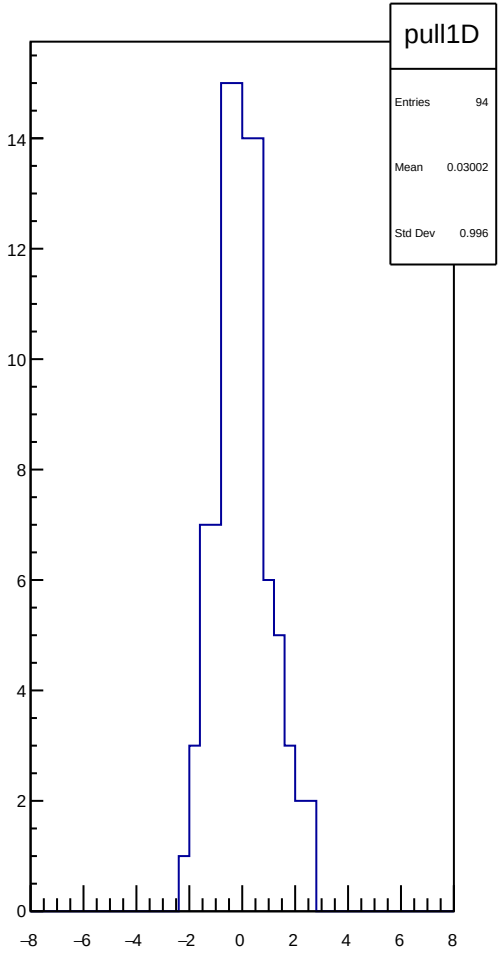

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4798 / 93
p0 3775 ± 2.821
5000
4800
4600
4400
4200
4000
3800
3600
3400

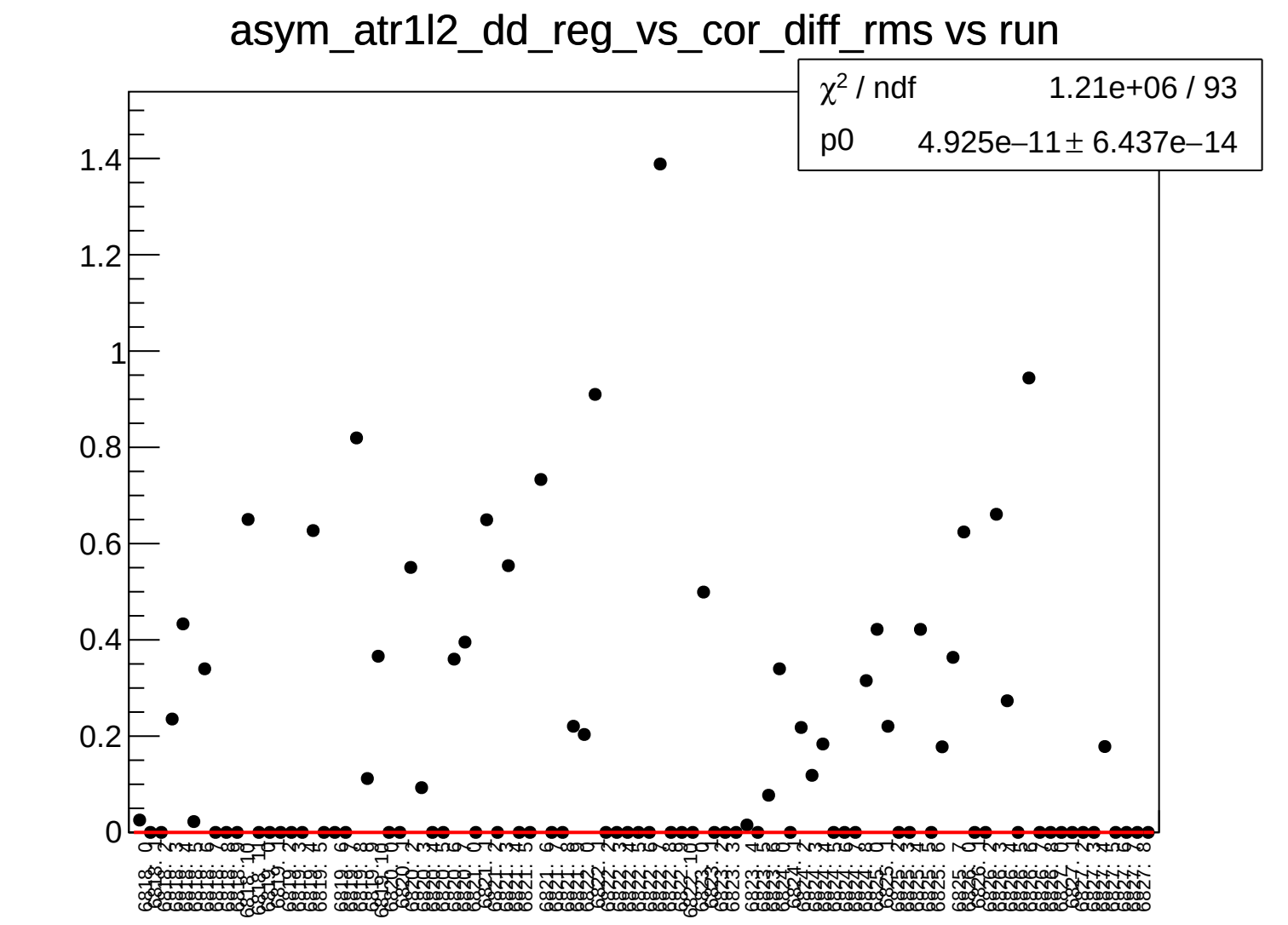

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 89.9 / 93
p0 3632 ± 4227
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 552.2
Std Dev 0
2
1
0
−1
−2

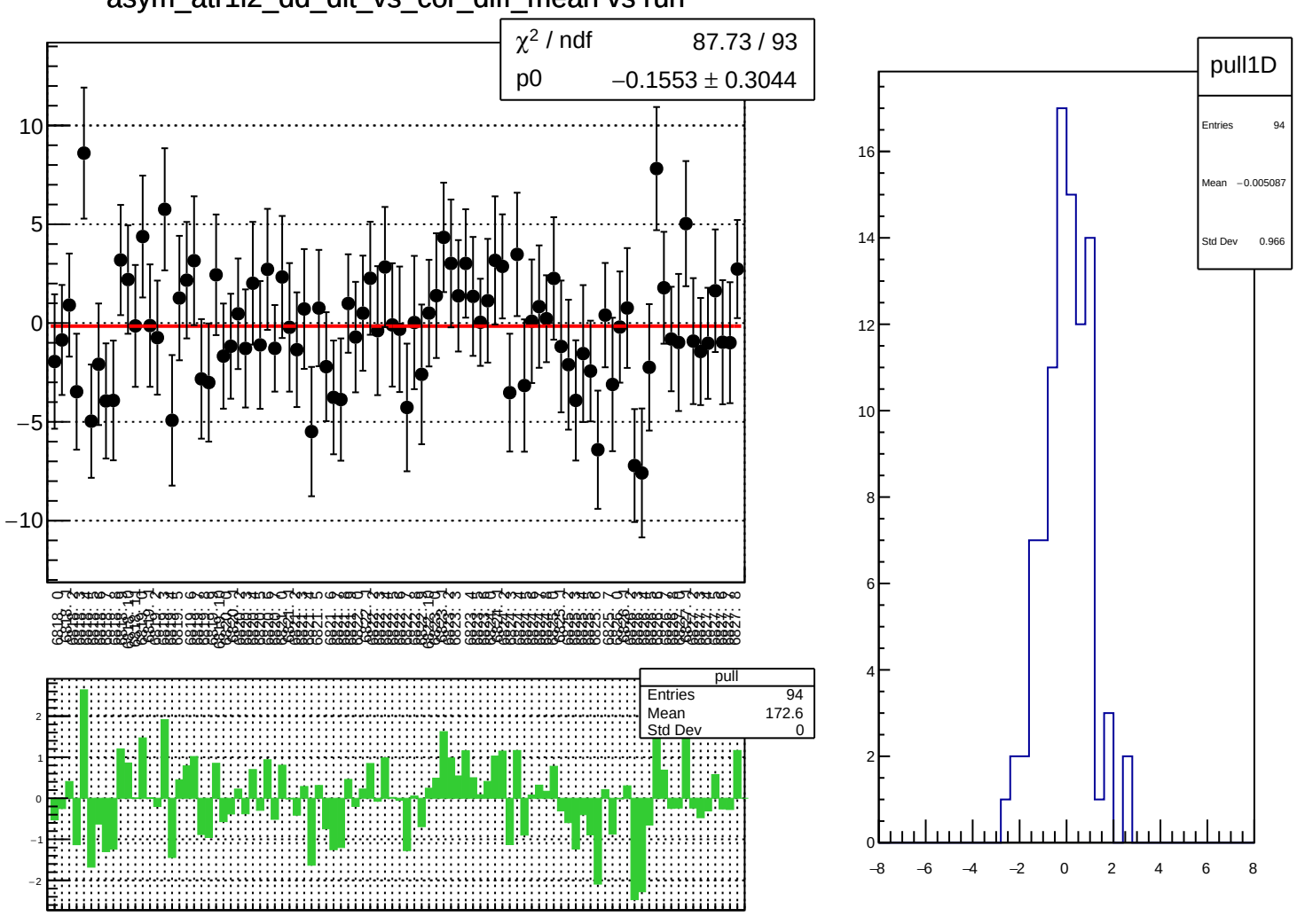

pull1D
Entries 94
Mean 0.002287
Std Dev 0.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

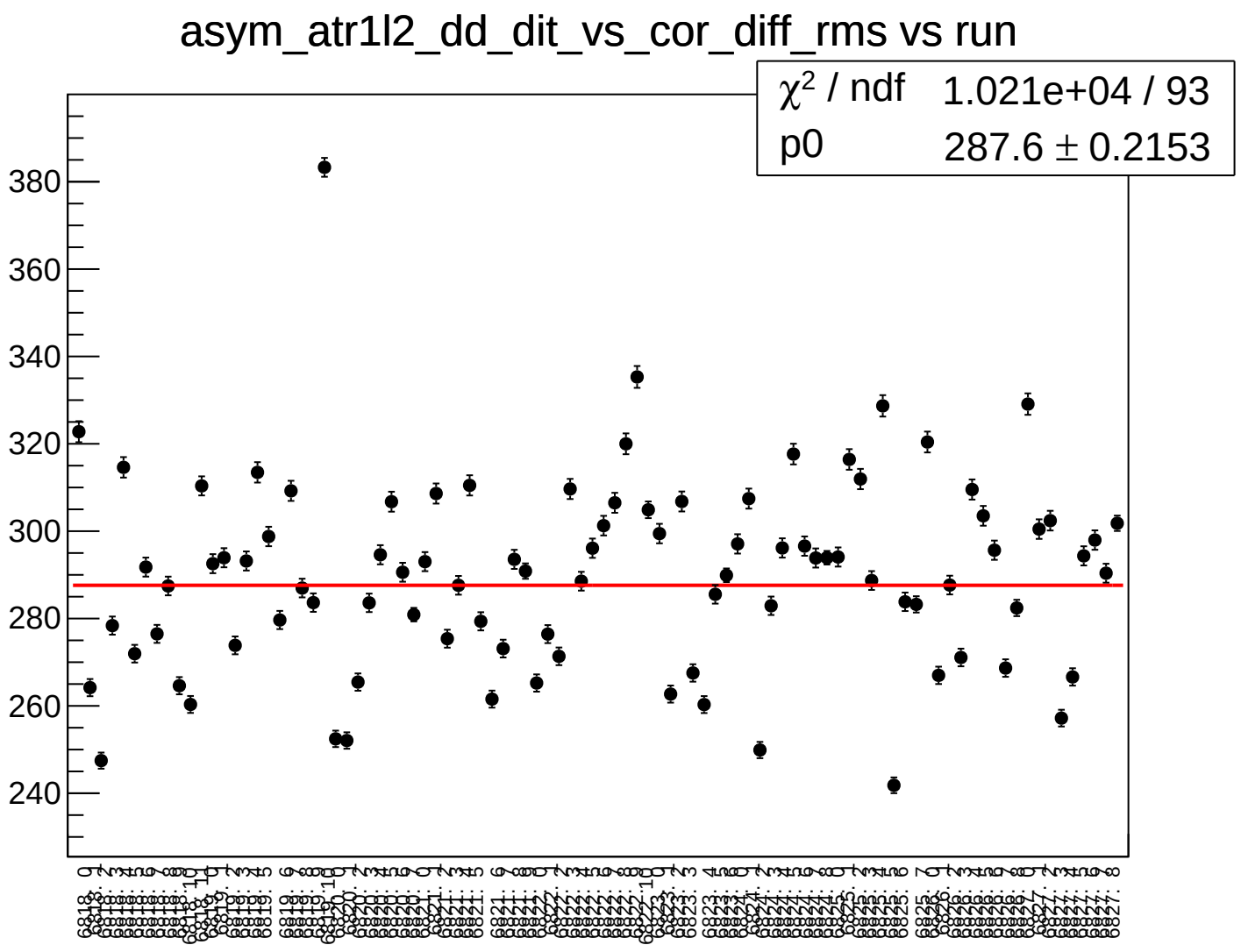

asym_atr1l2_dd_rms vs run
χ² / ndf 3194 / 93
p0 4001 ± 2.989
5000
4800
4600
4400
4200
4000
3800
3600

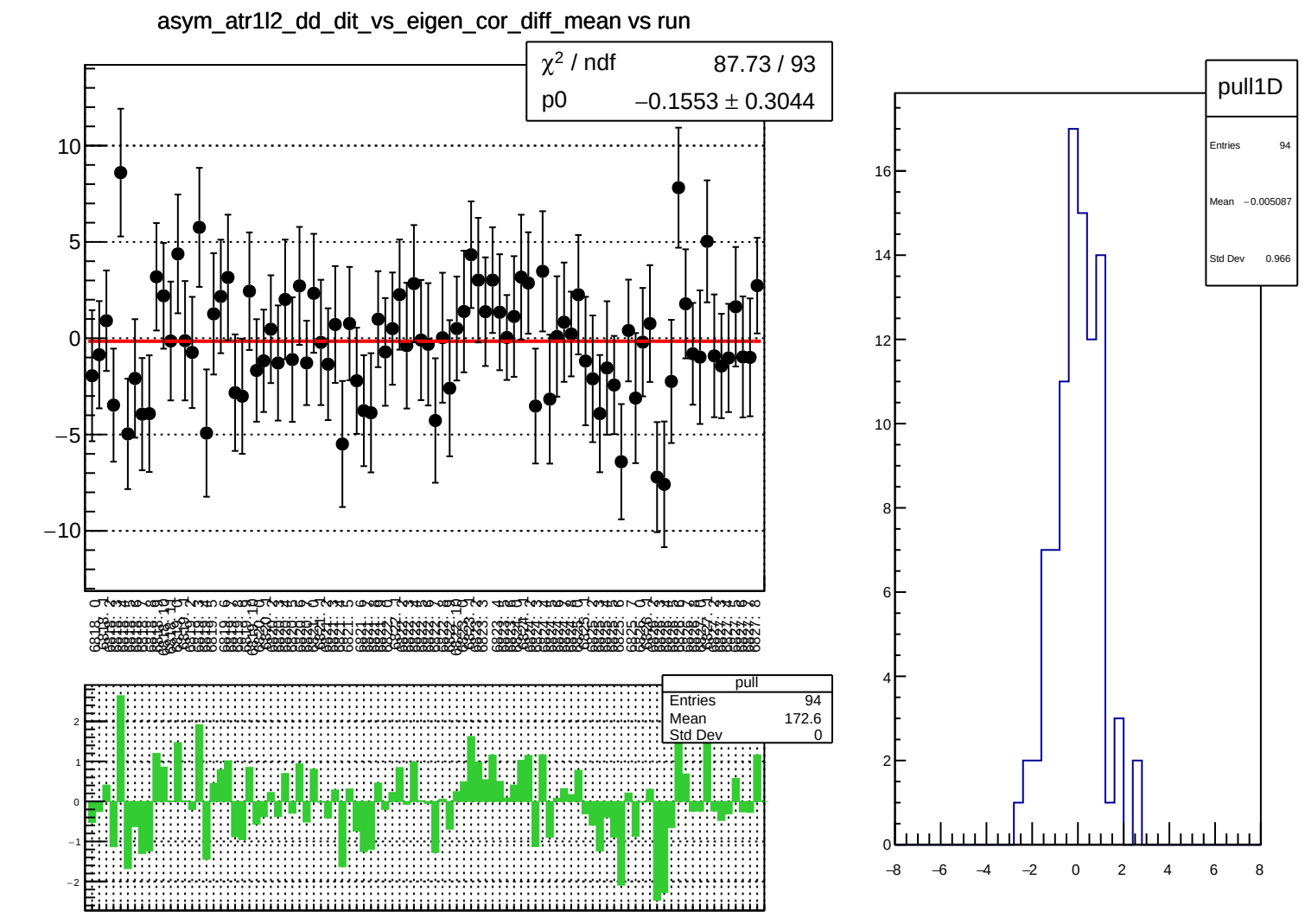

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 93
p0 −1.106e−13 ± 9.103e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −7.584
Std Dev 0
2
1
0
−1
−2

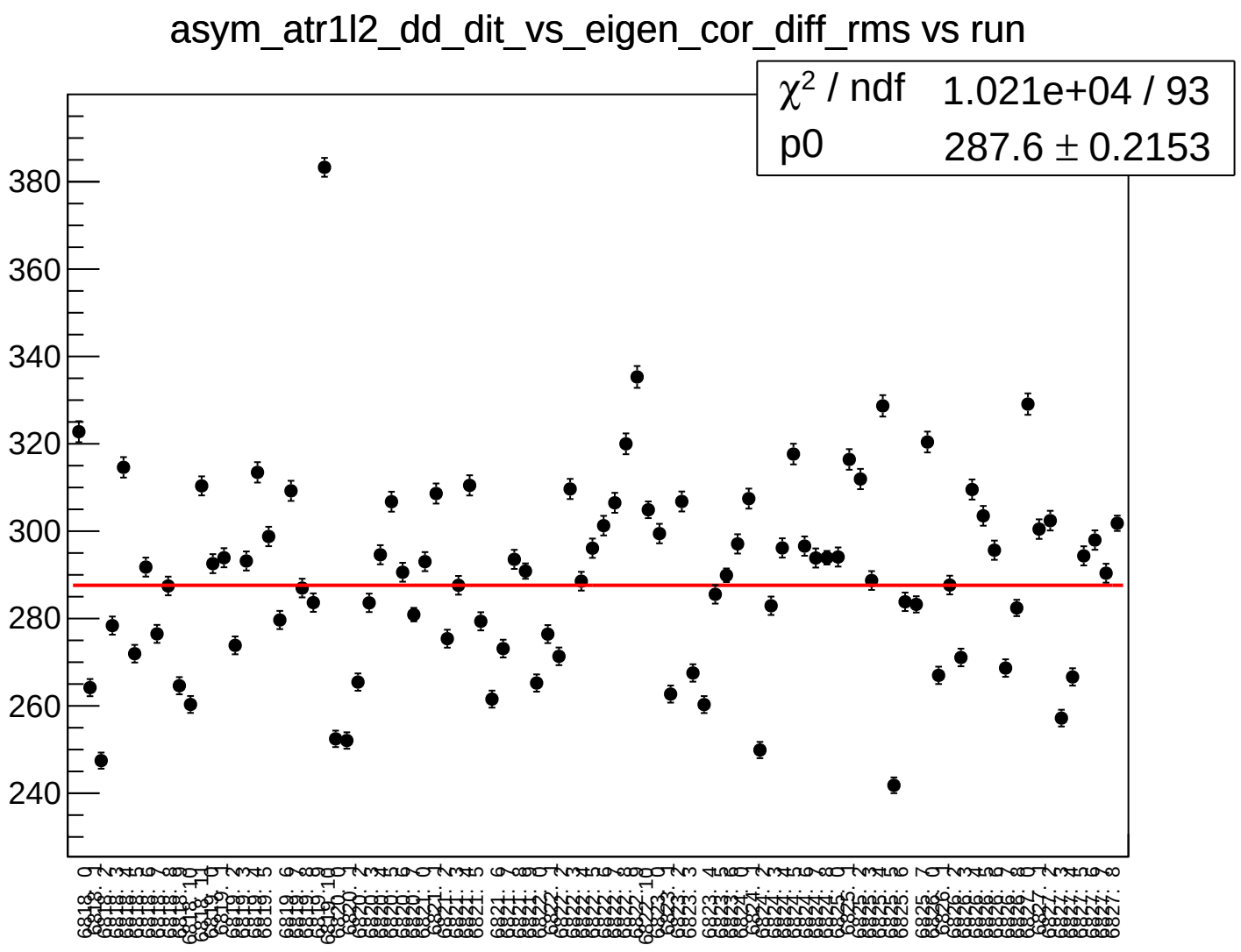

pull1D
Entries 94
Mean 0.03002
Std Dev 0.996
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

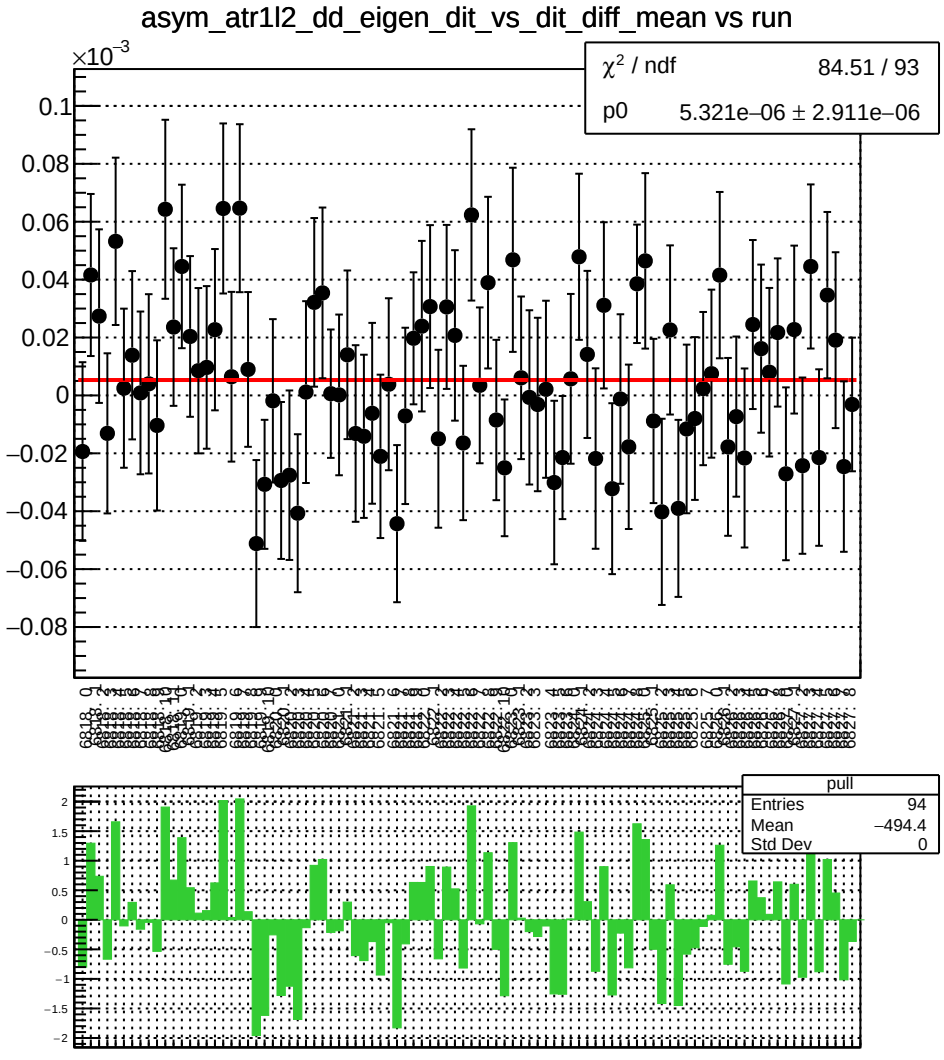

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 93
p0 4.925e−11 ± 6.437e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

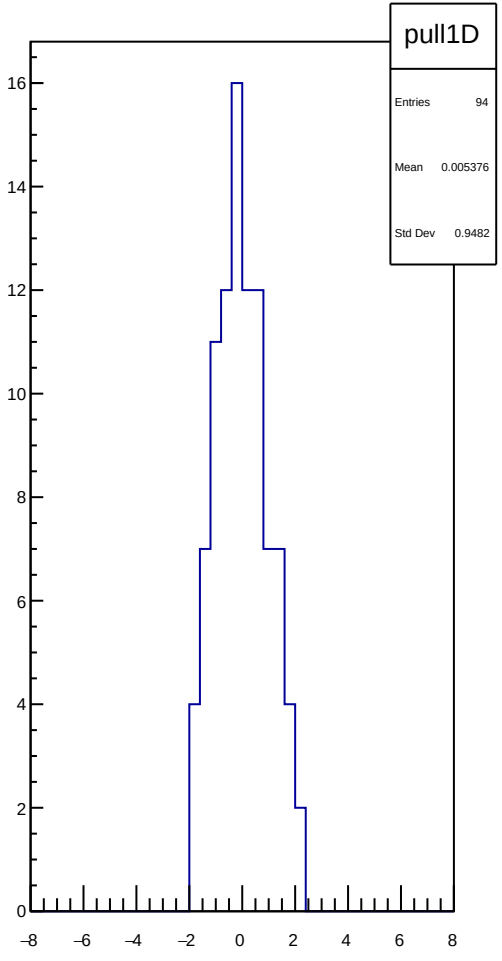

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 93
p0 −0.1553 ± 0.3044
pull
Entries 94
Mean 172.6
Std Dev 0
pull1D
Entries 94
Mean −0.005087
Std Dev 0.966

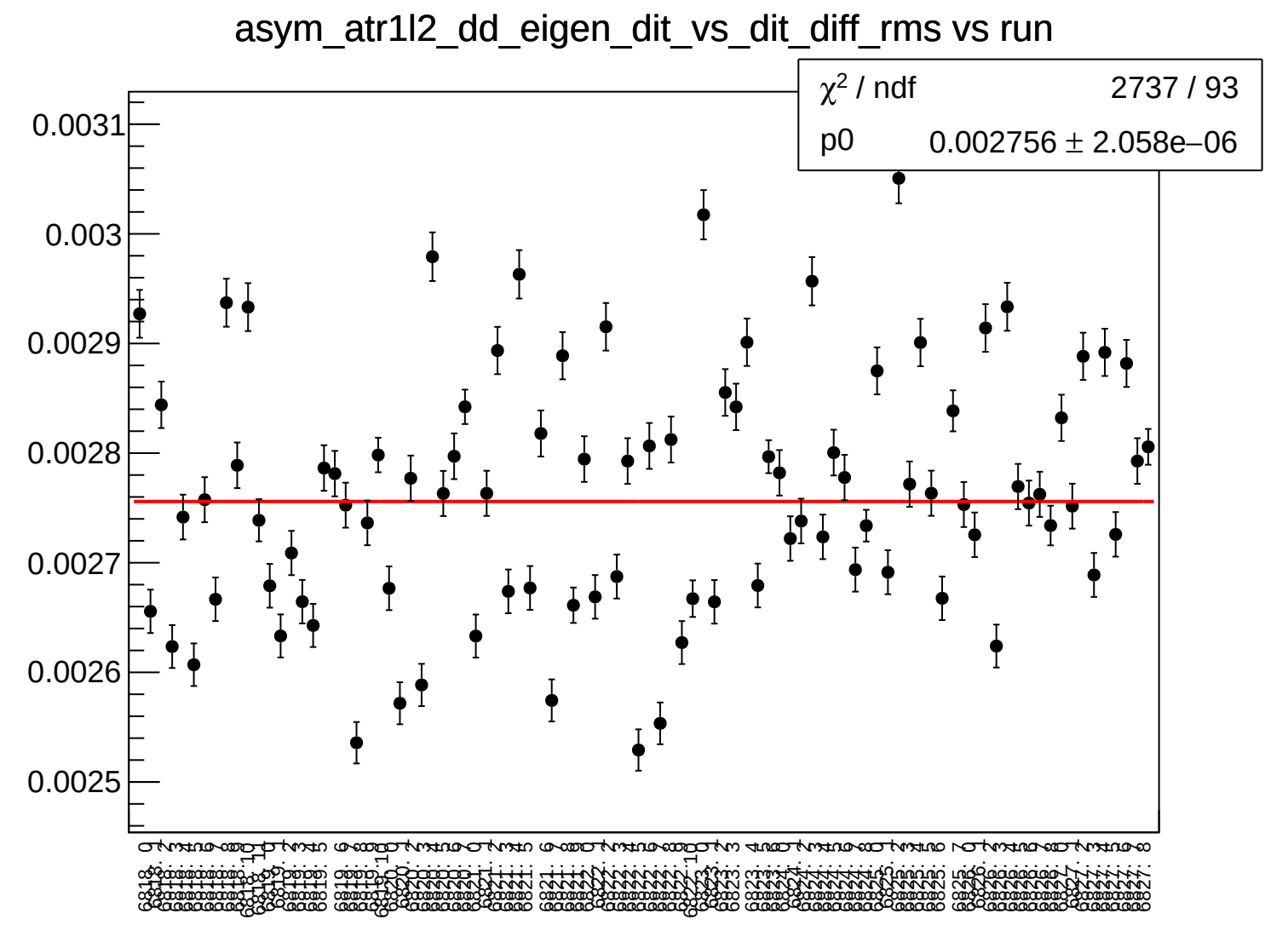

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.021e+04 / 93
p0 287.6 ± 0.2153
380
360
340
320
300
280
260
240

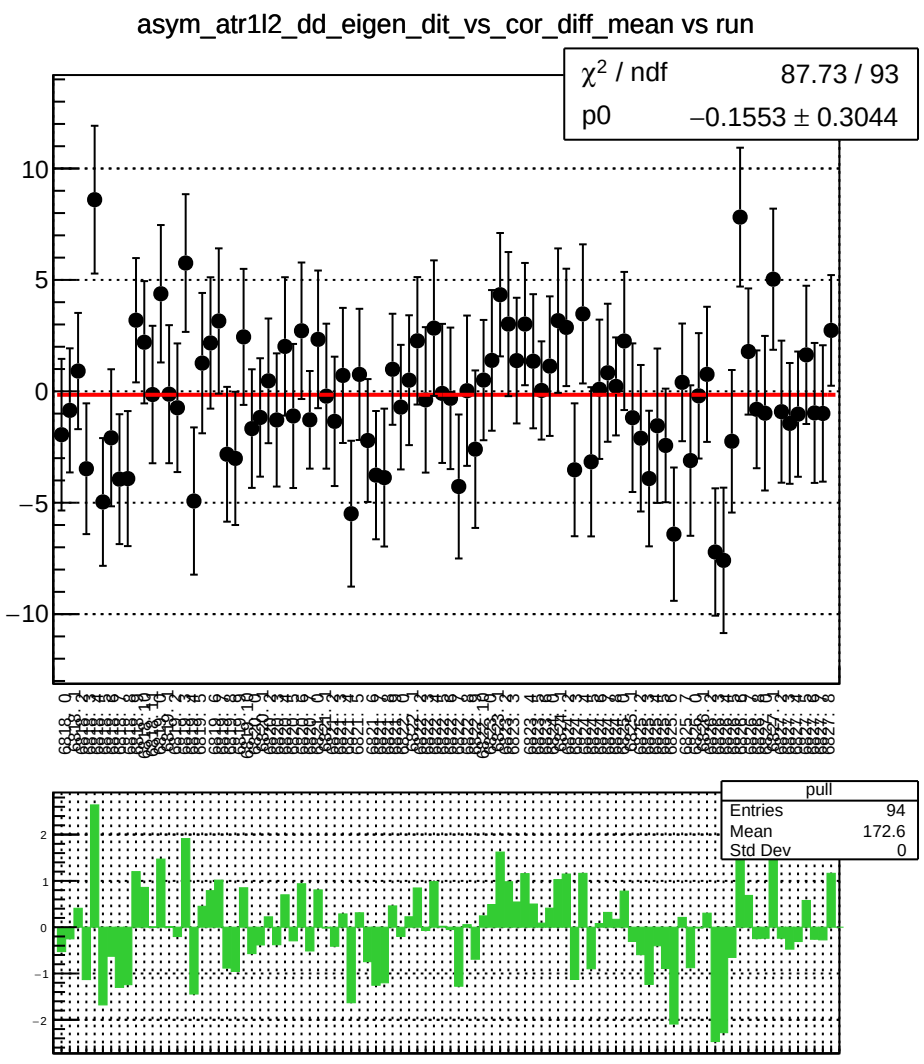

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.73 / 93
p0 −0.1553 ± 0.3044
pull
Entries 94
Mean 172.6
Std Dev 0
pull1D
Entries 94
Mean −0.005087
Std Dev 0.966

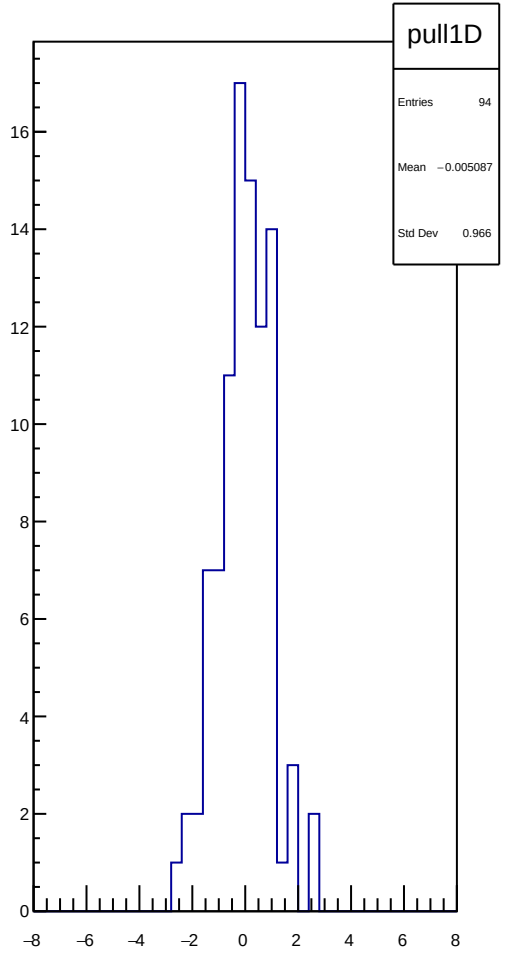

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.021e+04 / 93
p0 287.6 ± 0.2153
380
360
340
320
300
280
260
240

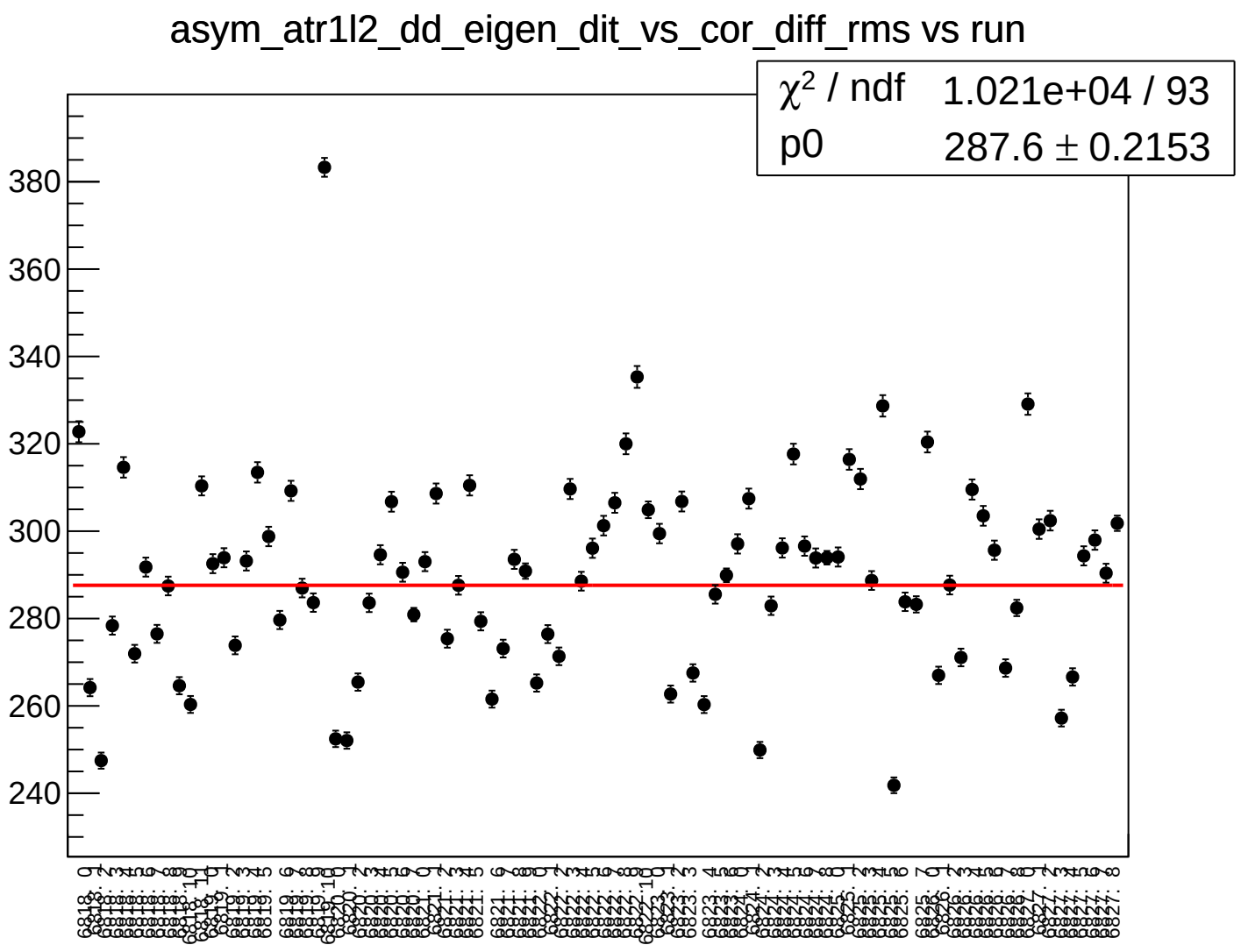

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.51 / 93
p0 5.321e−06 ± 2.911e−06
pull
Entries 94
Mean −494.4
Std Dev 0

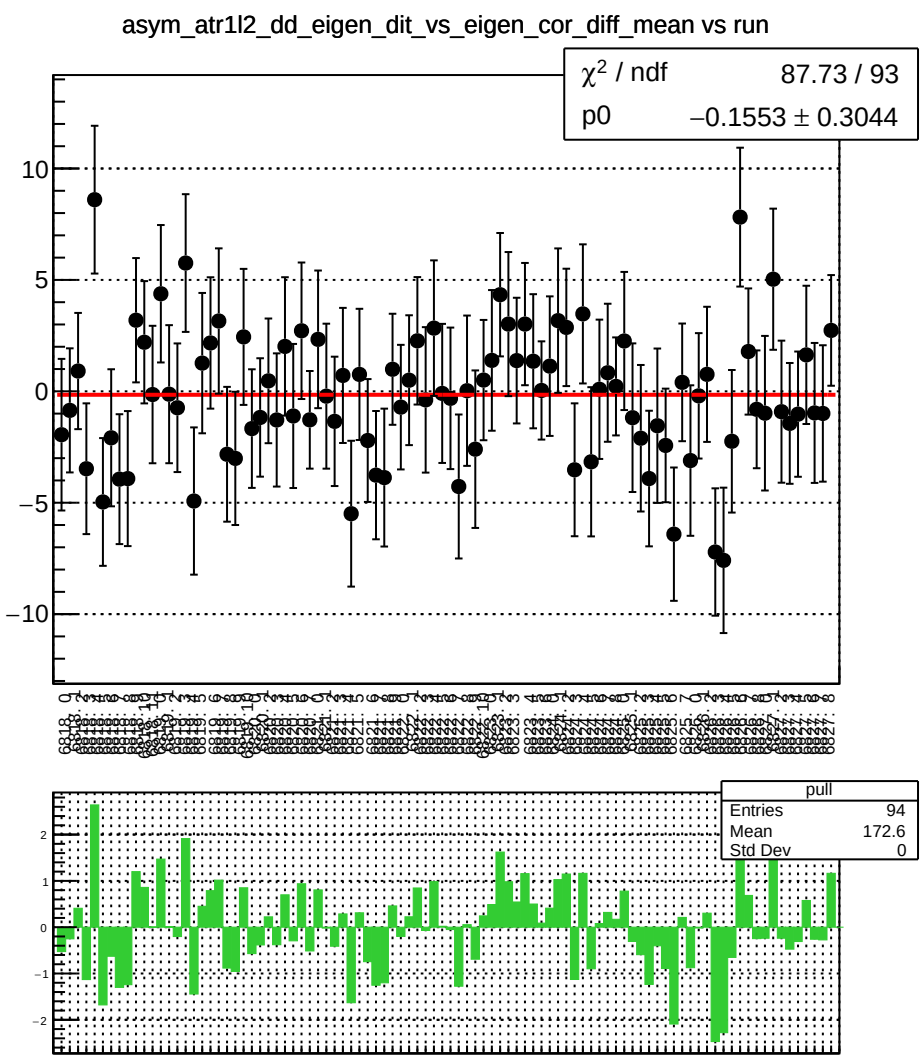

pull1D
Entries 94
Mean 0.005376
Std Dev 0.9482

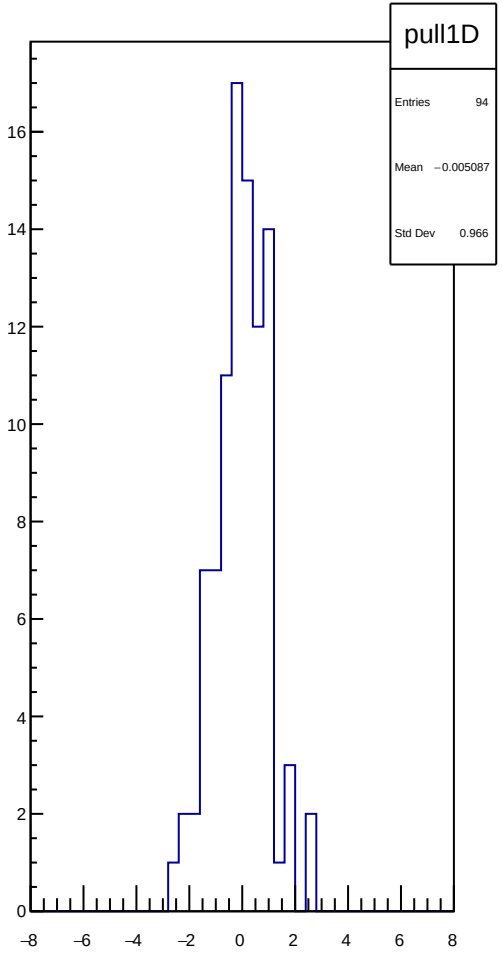

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2737 / 93
p0 0.002756 ± 2.058e−06
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

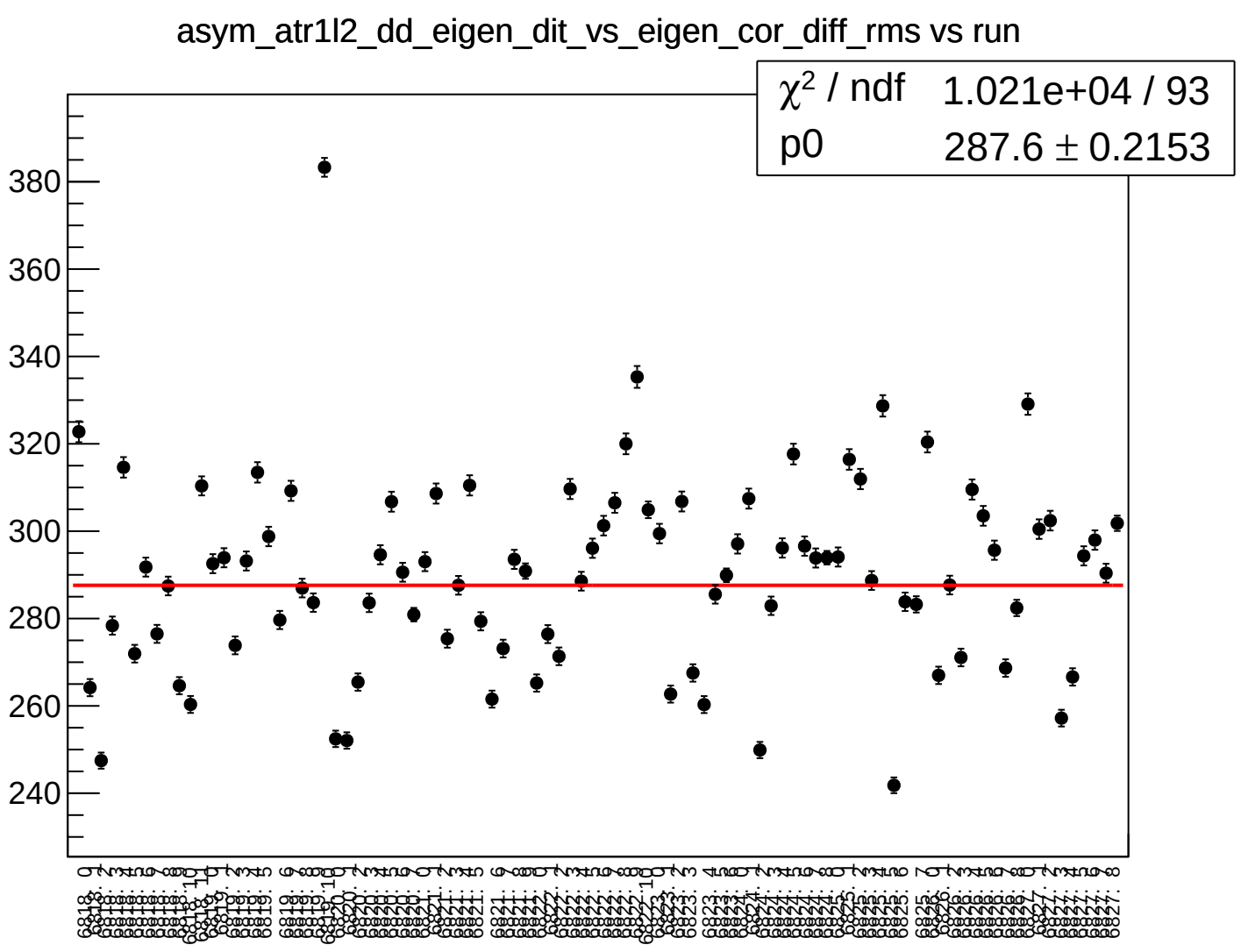

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.73 / 93
p0 −0.1553 ± 0.3044
pull
Entries 94
Mean 172.6
Std Dev 0

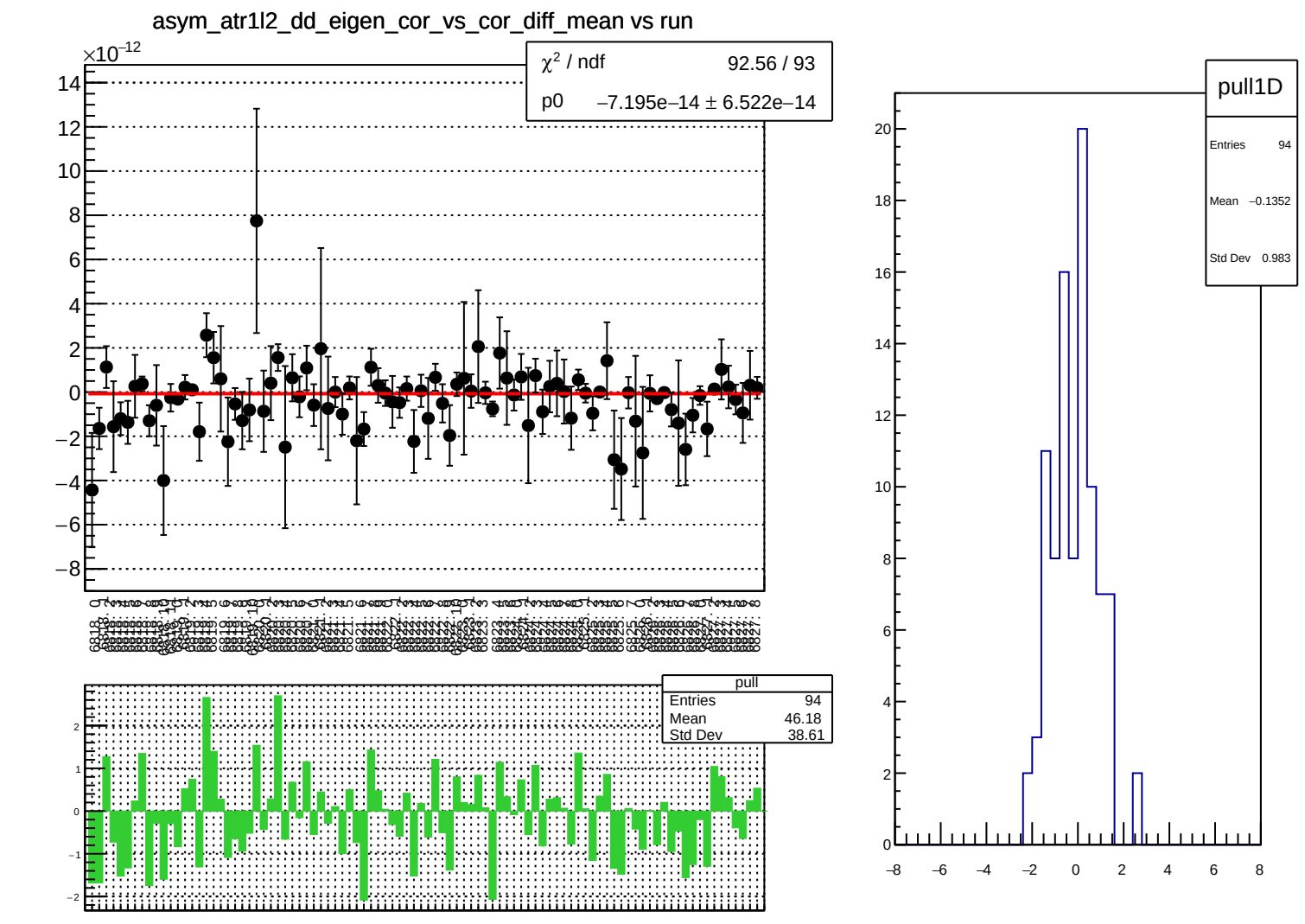

pull1D
Entries 94
Mean −0.005087
Std Dev 0.966

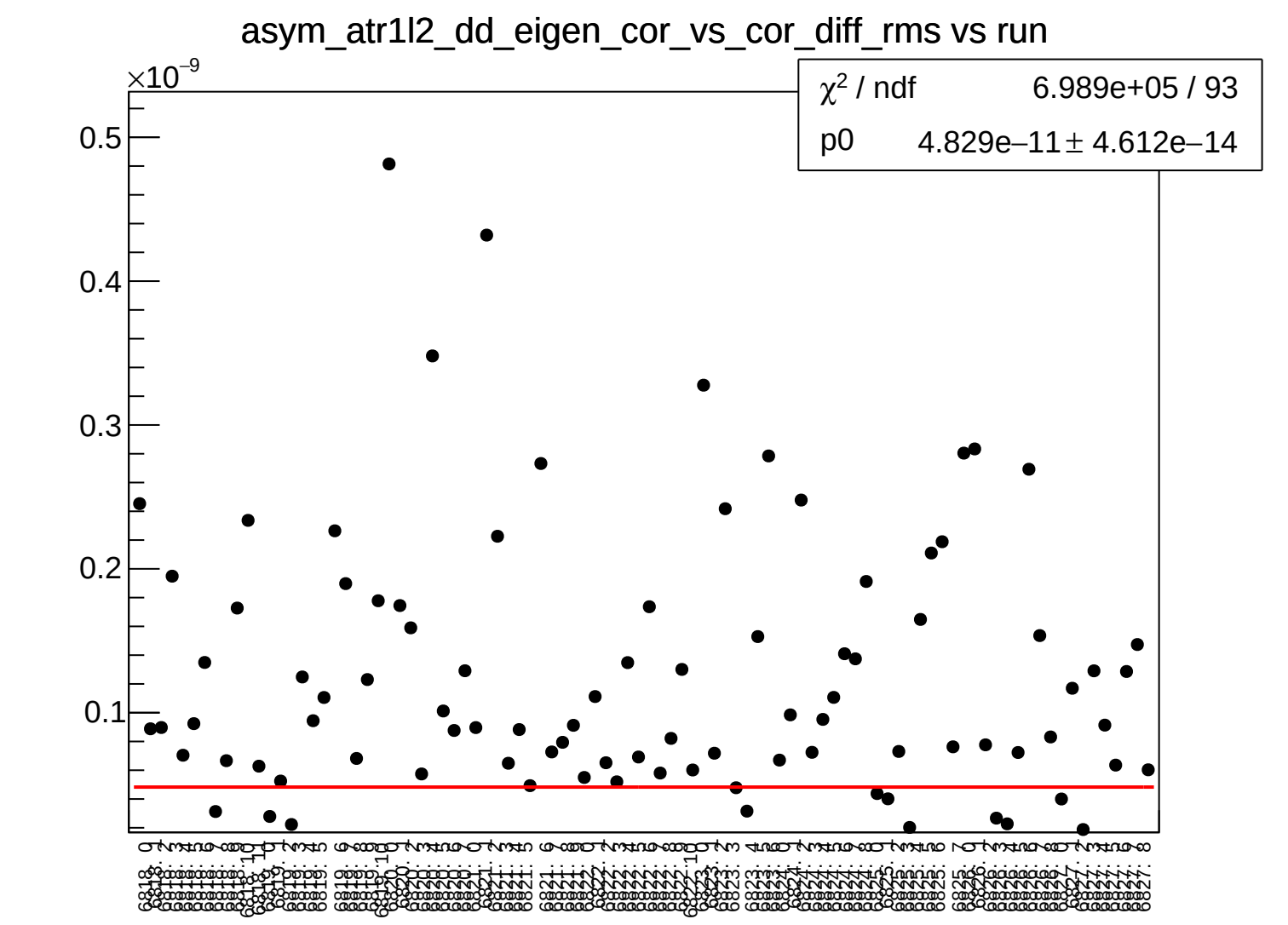

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.021e+04 / 93
p0 287.6 ± 0.2153
380
360
340
320
300
280
260
240

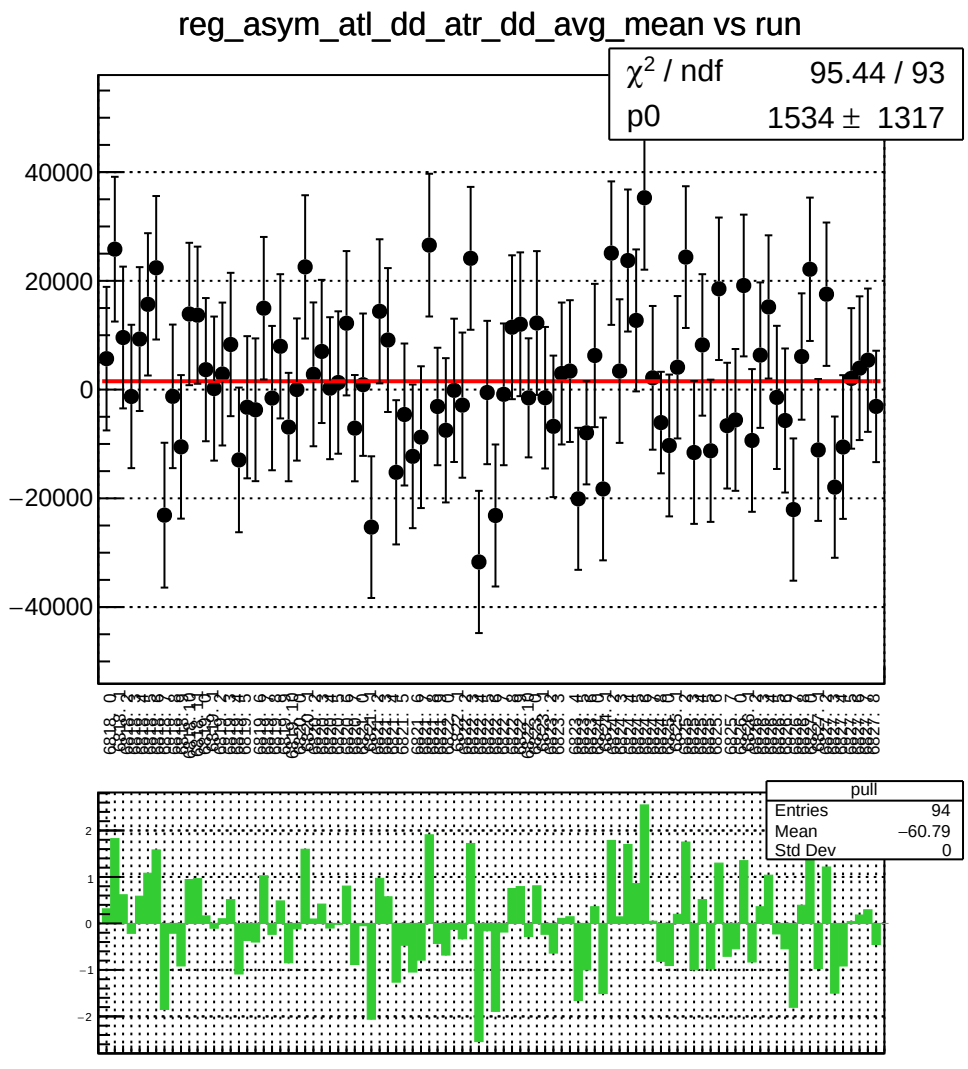

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.73 / 93
p0 −0.1553 ± 0.3044
pull
Entries 94
Mean 172.6
Std Dev 0

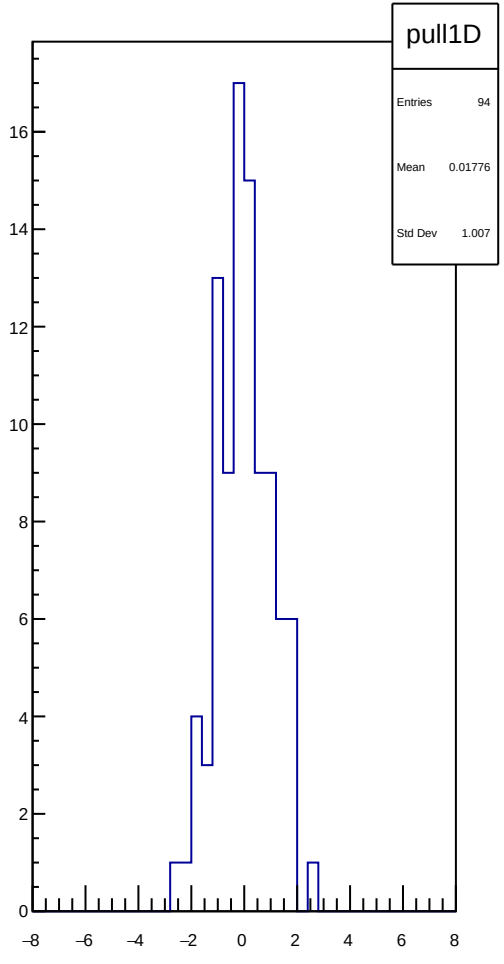

pull1D
Entries 94
Mean −0.005087
Std Dev 0.966

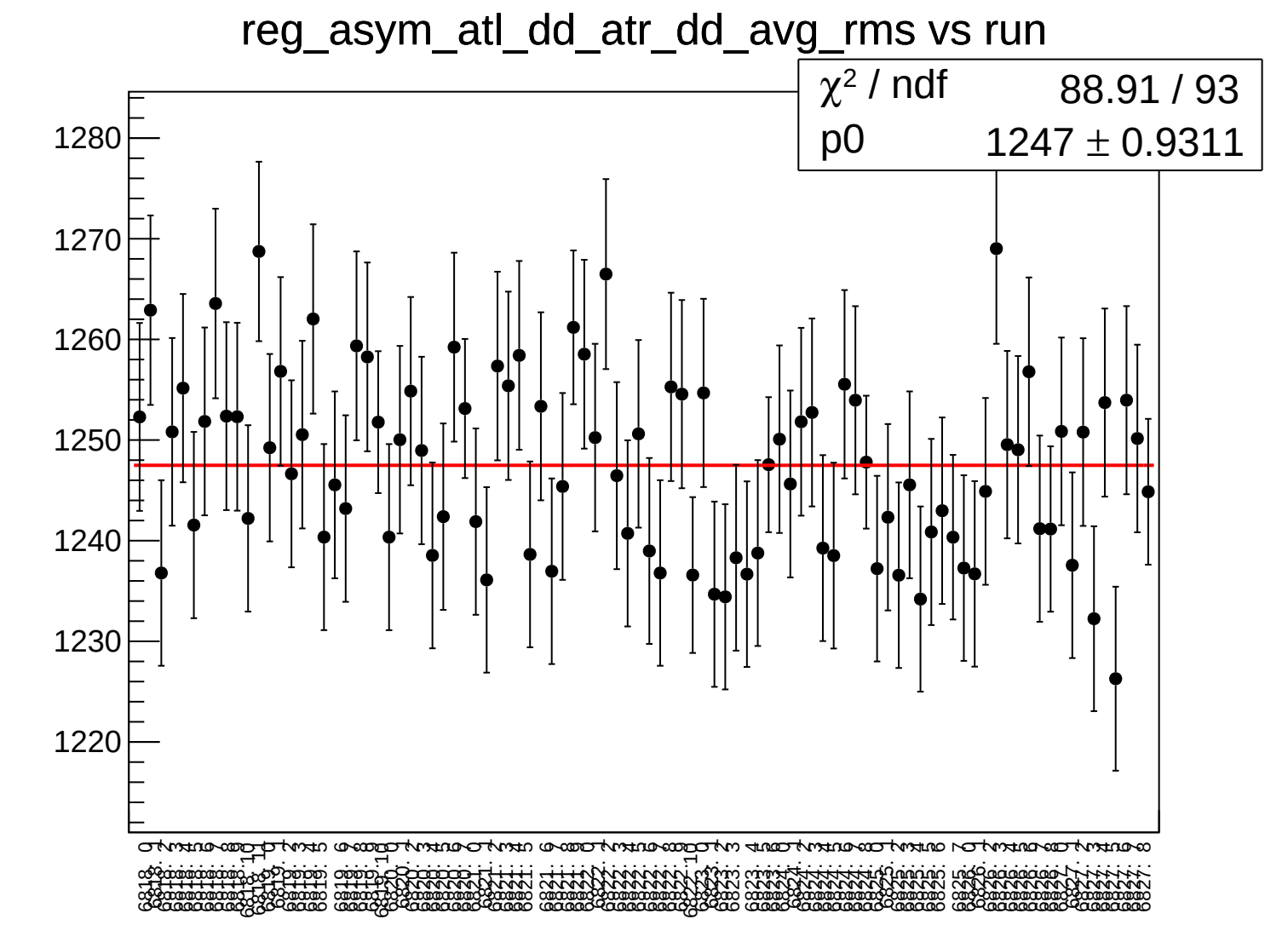

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.021e+04 / 93
p0 287.6 ± 0.2153
380
360
340
320
300
280
260
240

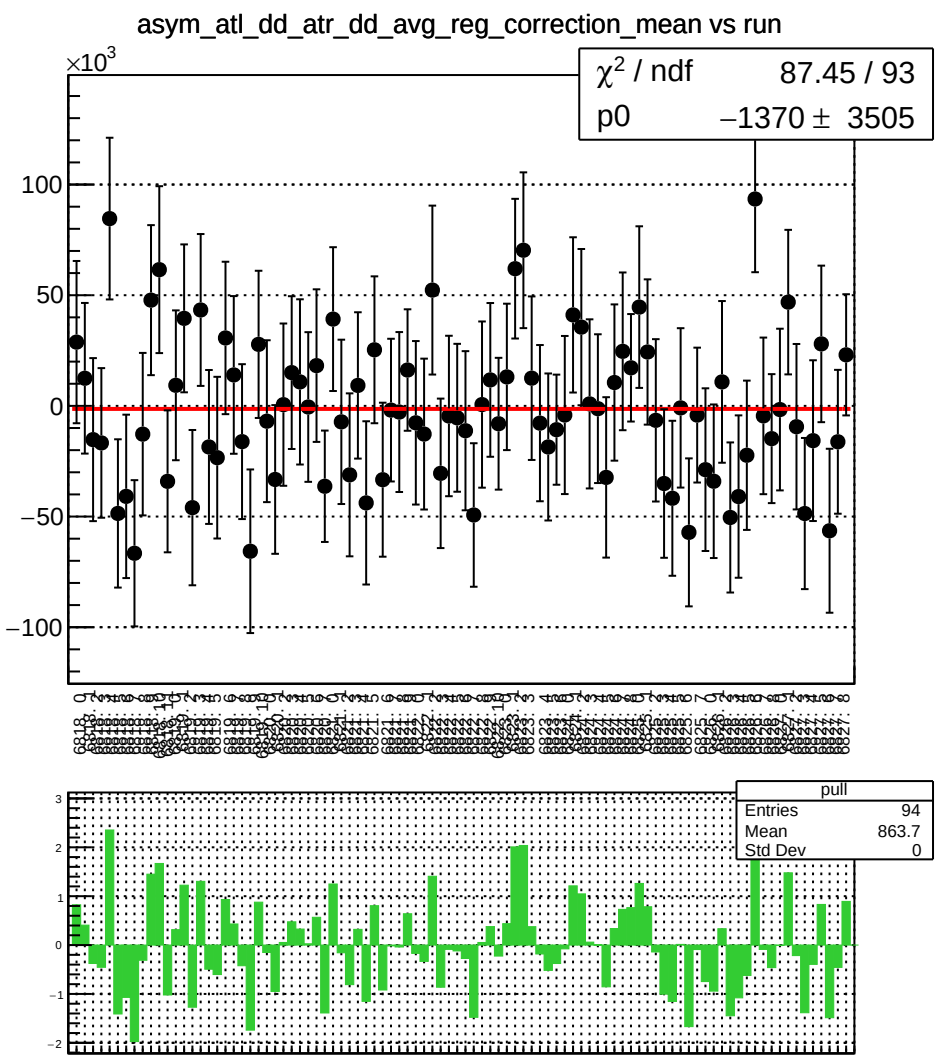

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.56 / 93
p0 −7.195e−14 ± 6.522e−14
pull
Entries 94
Mean 46.18
Std Dev 38.61
pull1D
Entries 94
Mean −0.1352
Std Dev 0.983

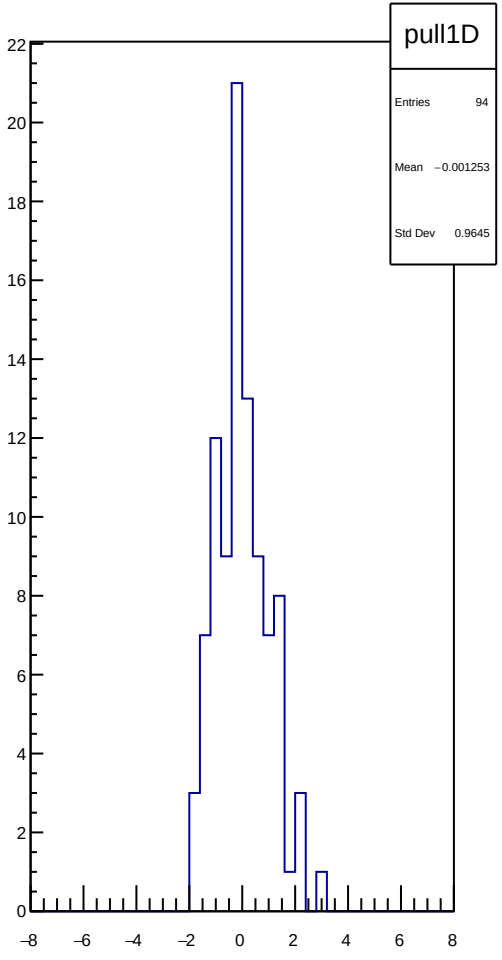

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.989e+05 / 93
p0 4.829e−11 ± 4.612e−14
0.5
0.4
0.3
0.2
0.1

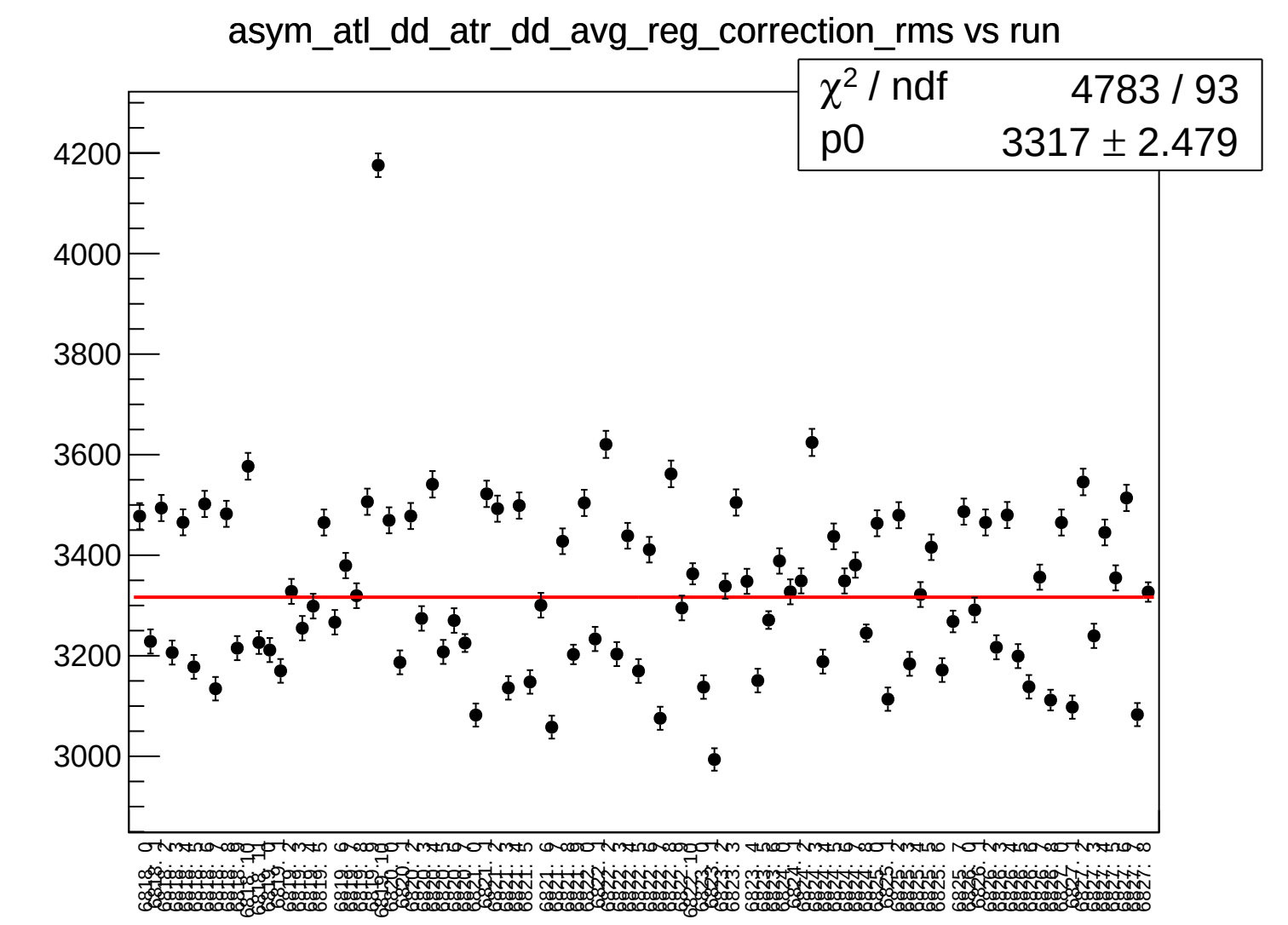

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.79
Std Dev 0
2
1
0
−1
−2

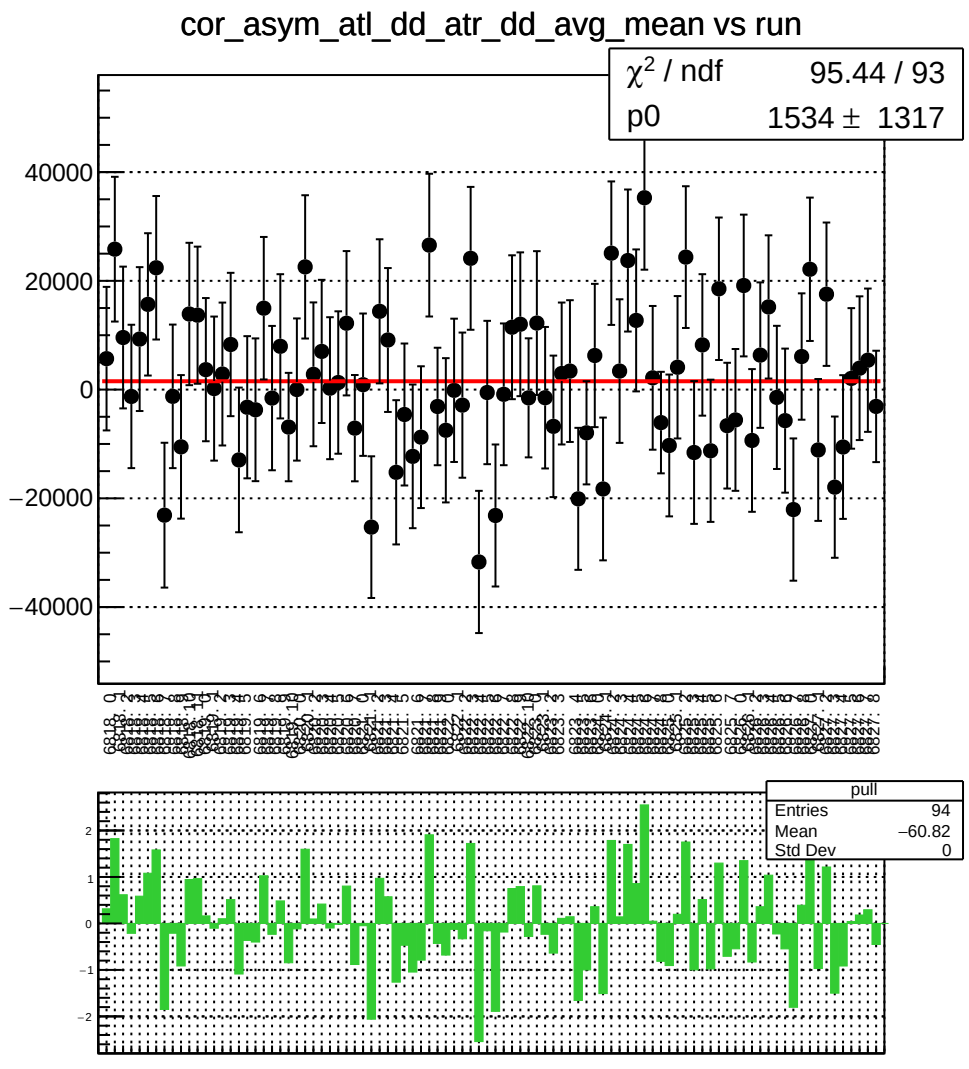

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

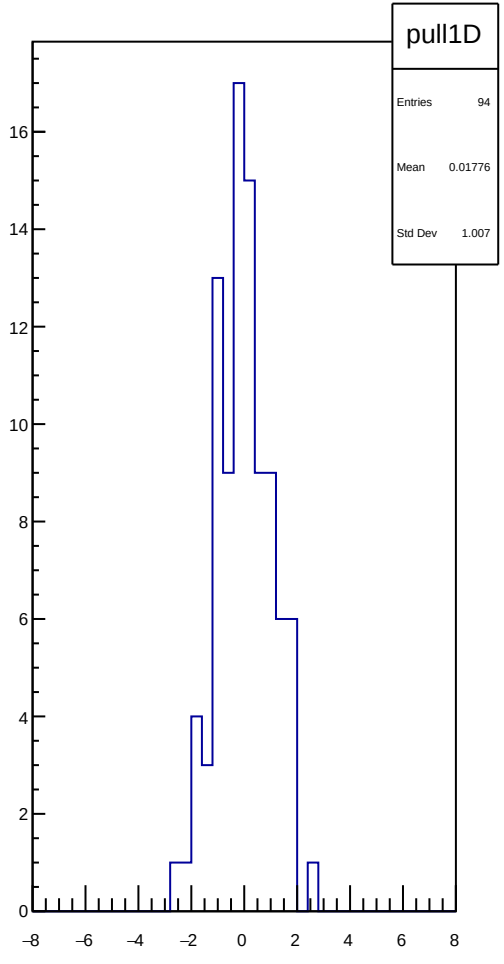

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

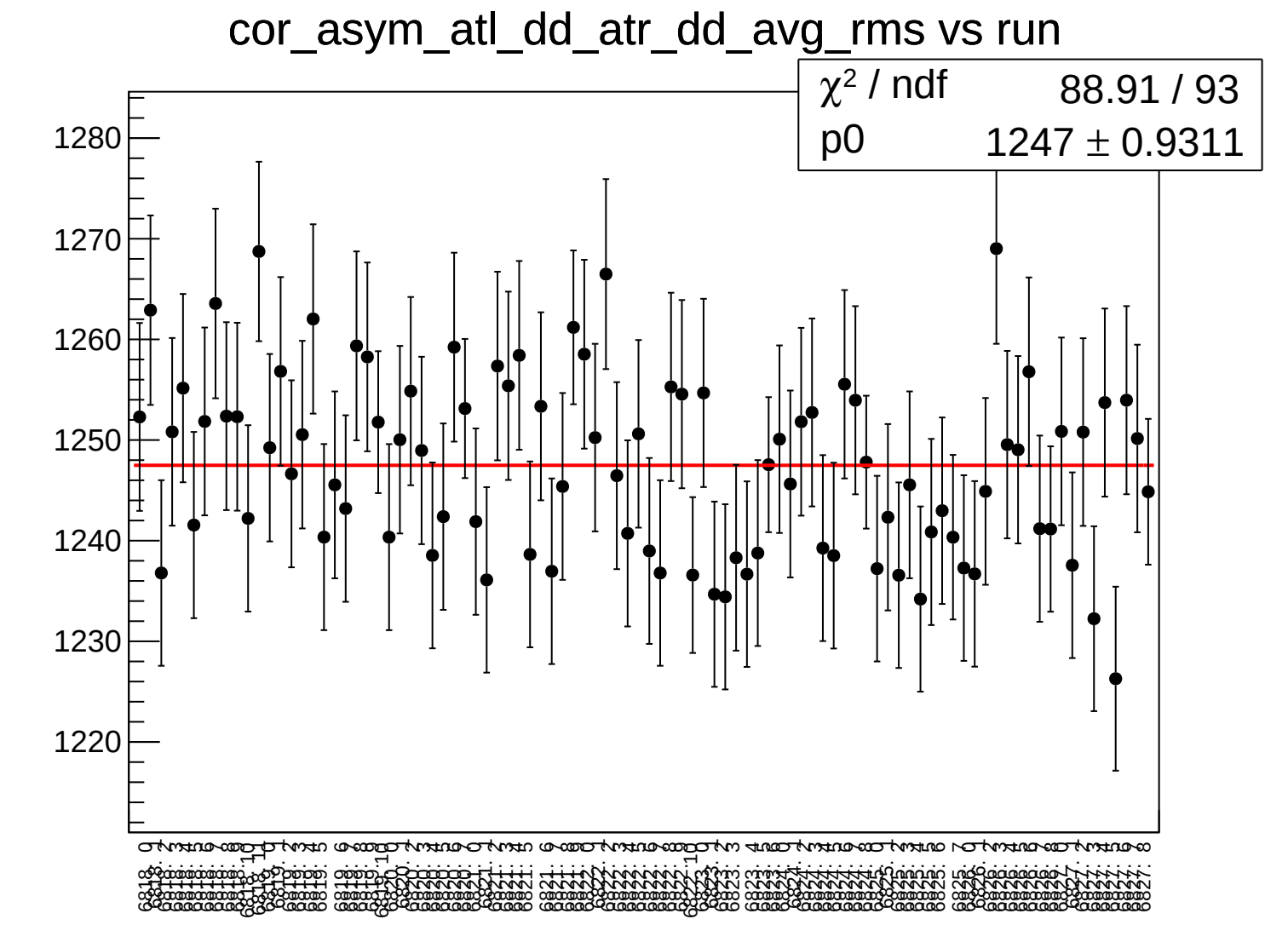

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 863.7
Std Dev 0
3
2
1
0
−1
−2

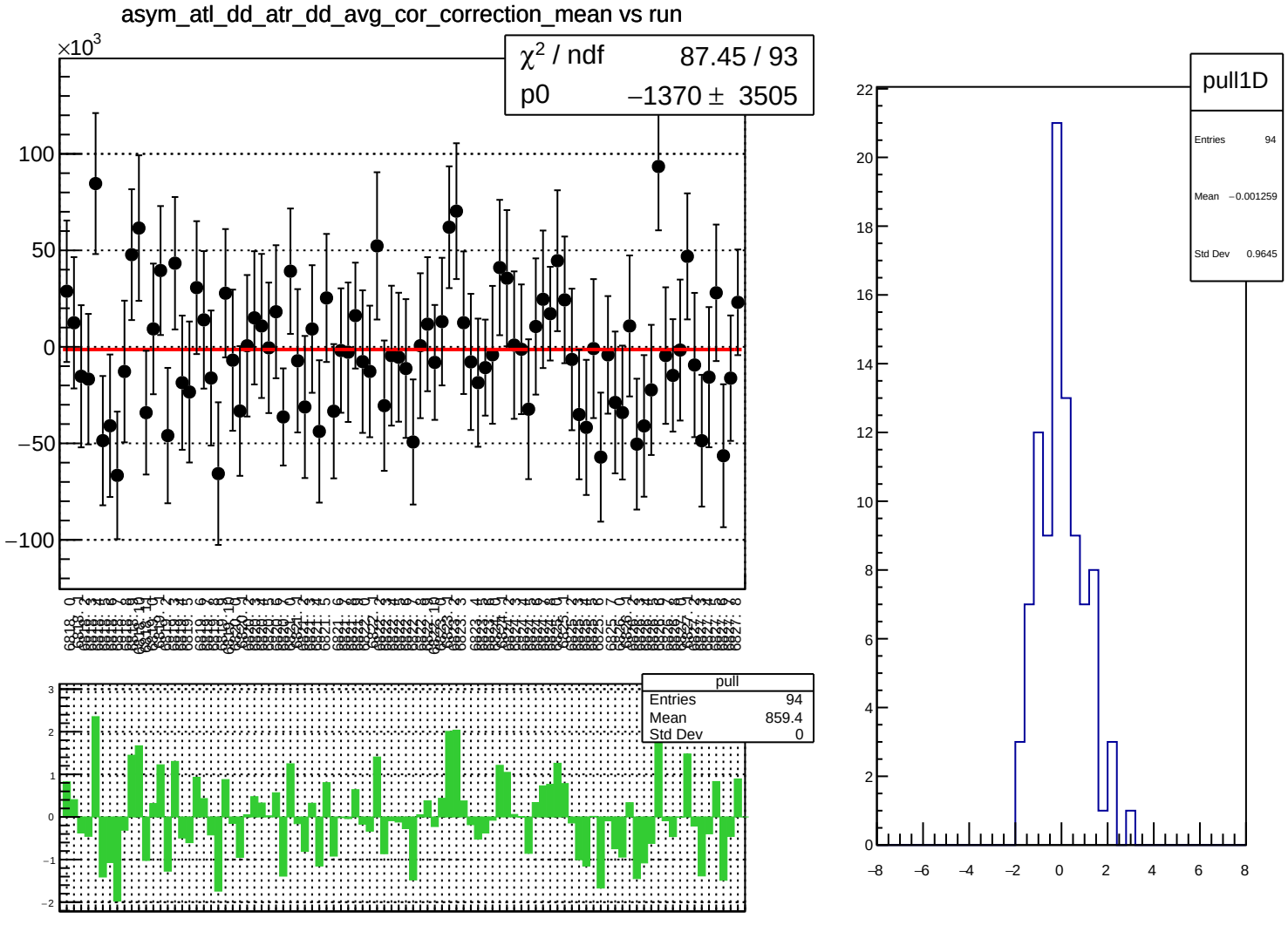

pull1D
Entries 94
Mean −0.001253
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

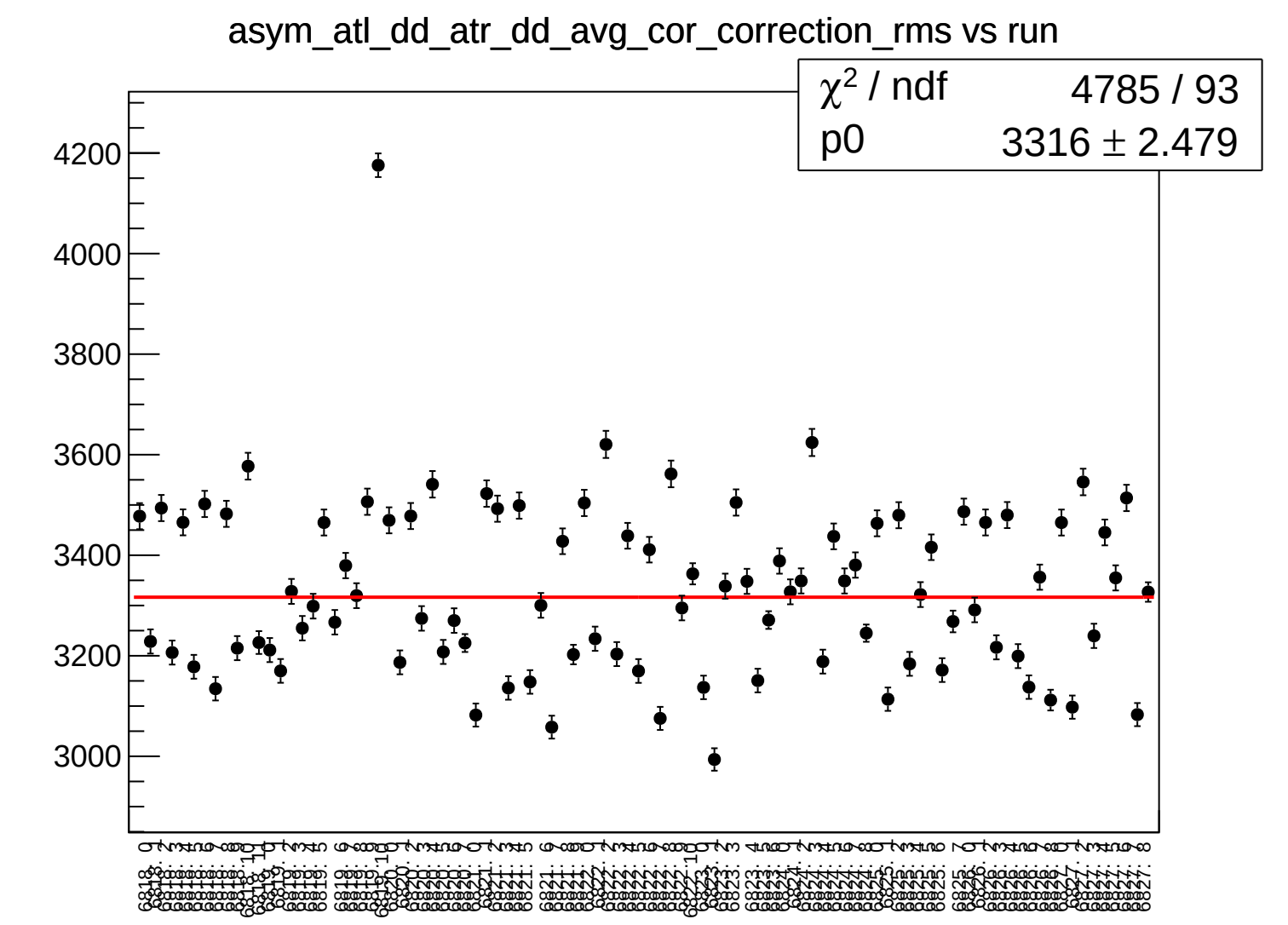

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 4783 / 93
p0 3317 ± 2.479
4200
4000
3800
3600
3400
3200
3000

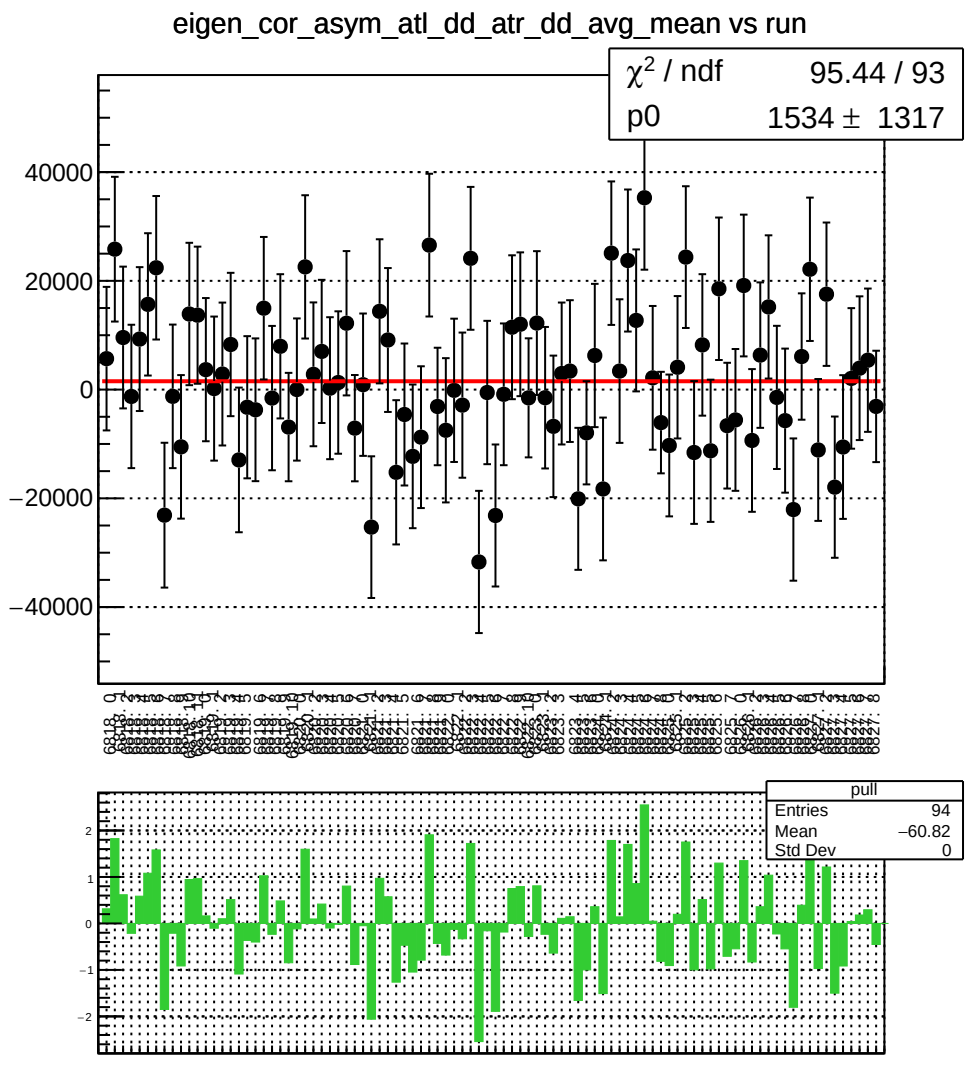

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2

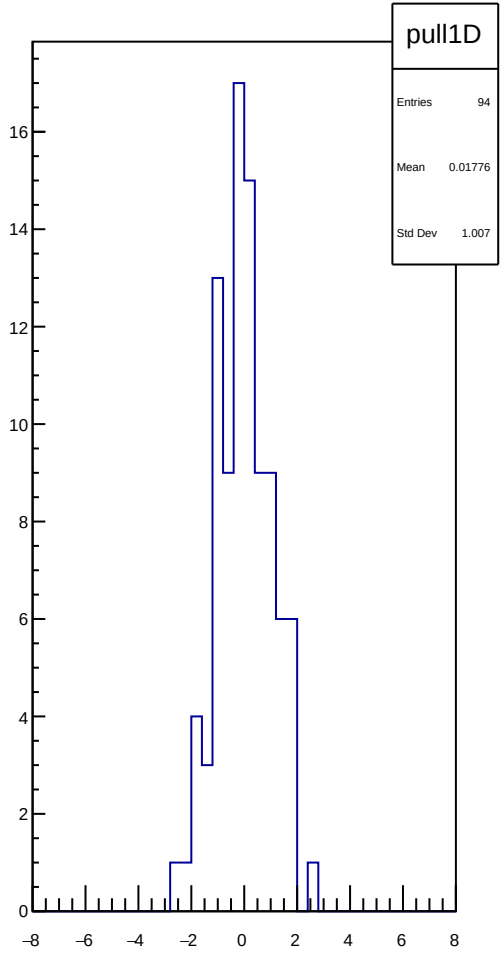

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220


asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
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_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000


eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
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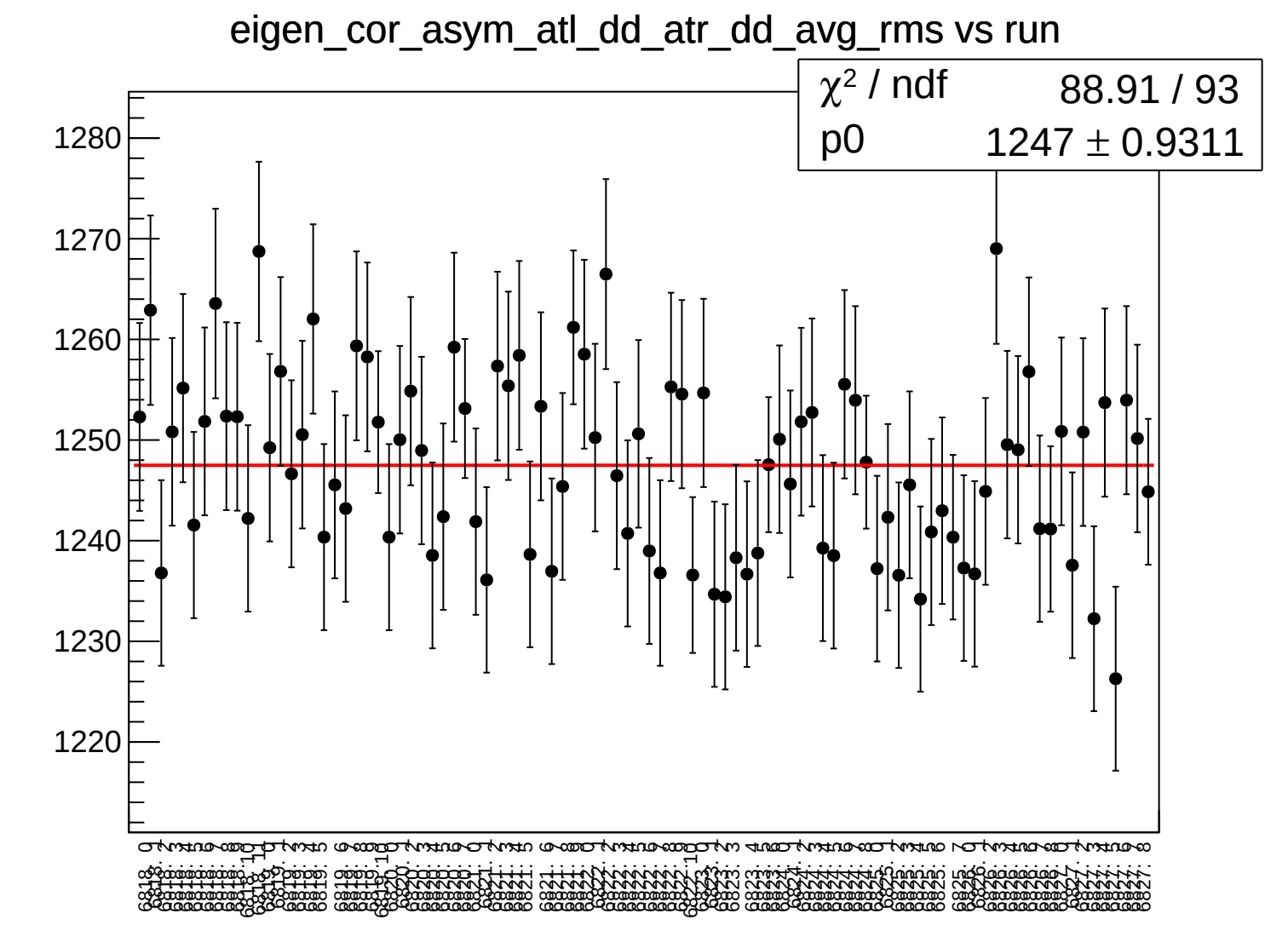
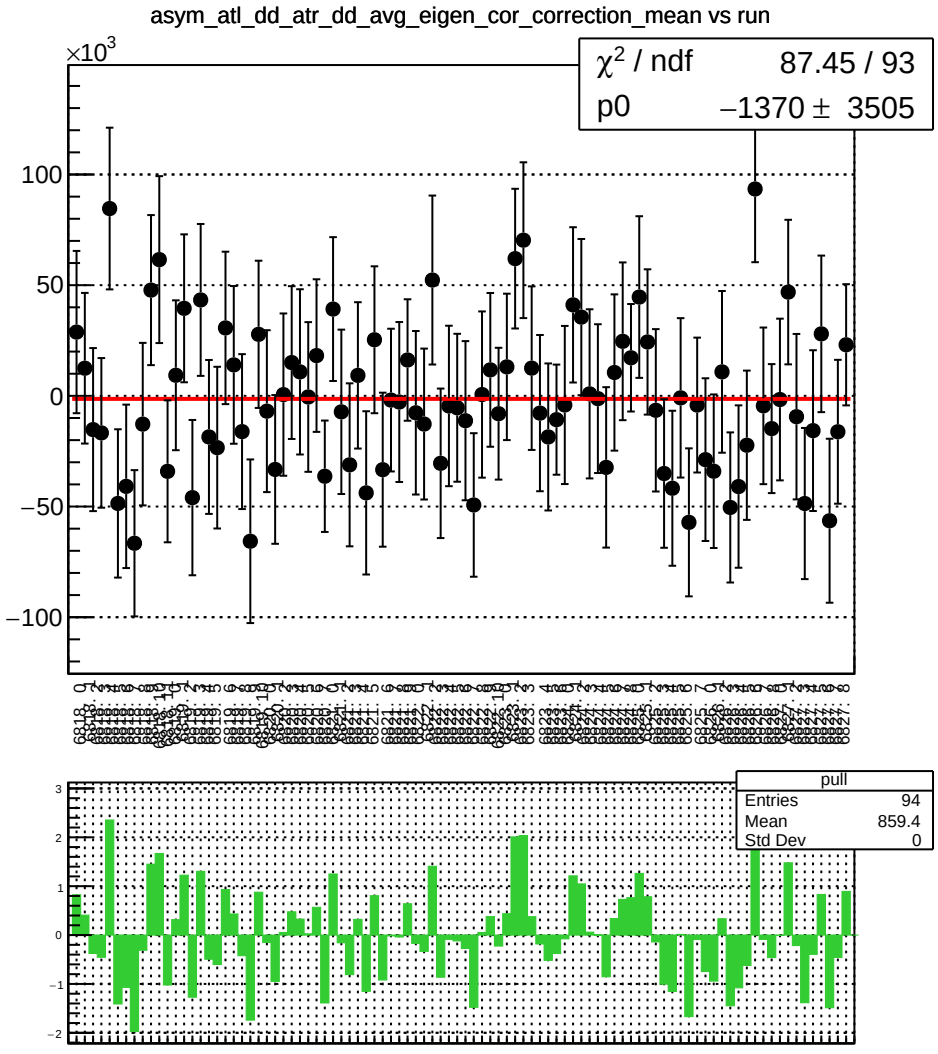
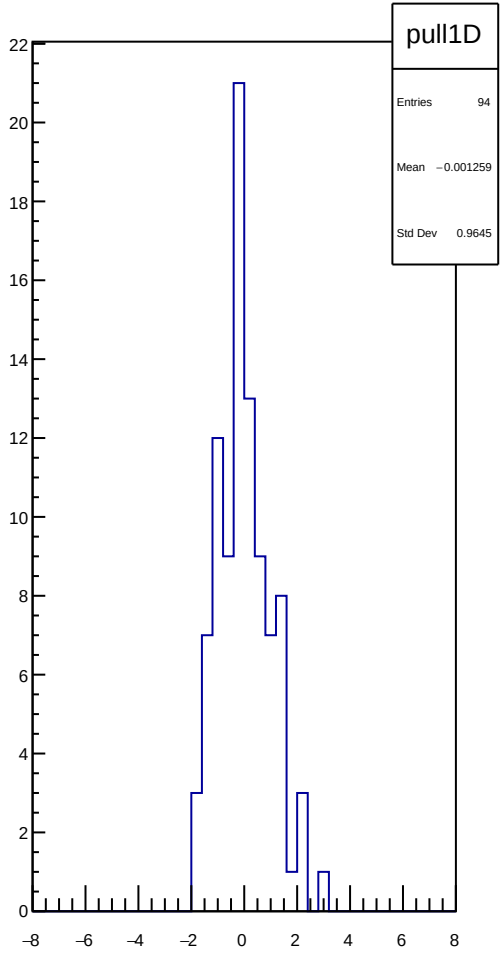
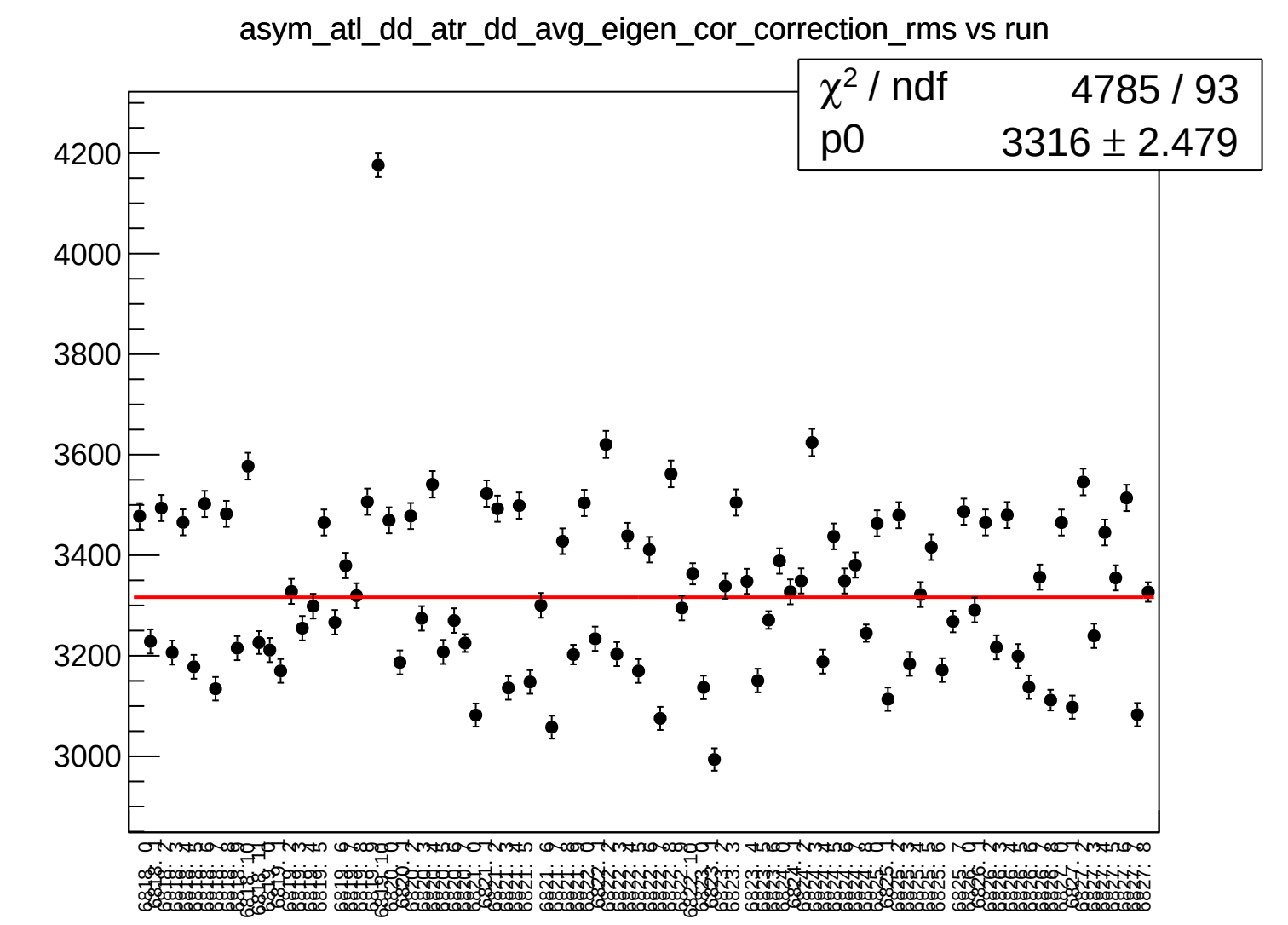
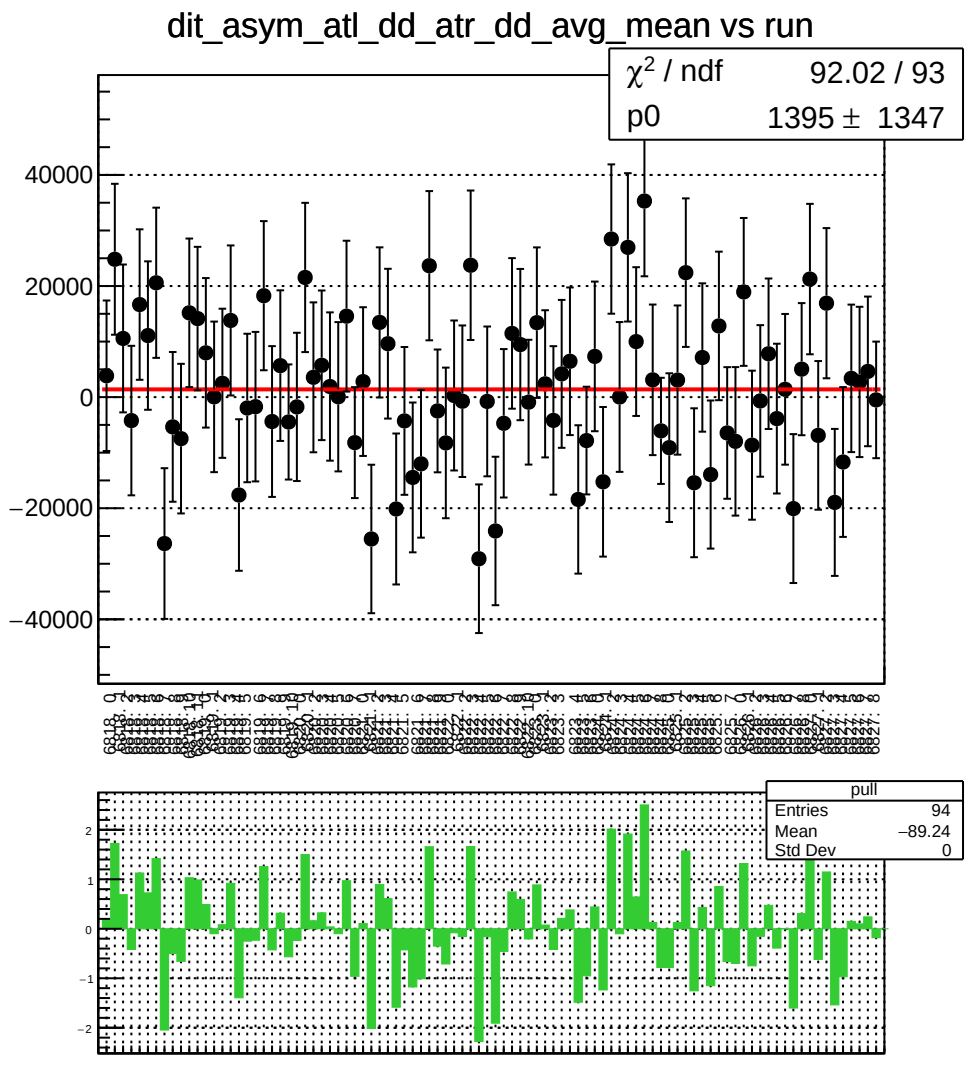
0
2
4
6
8

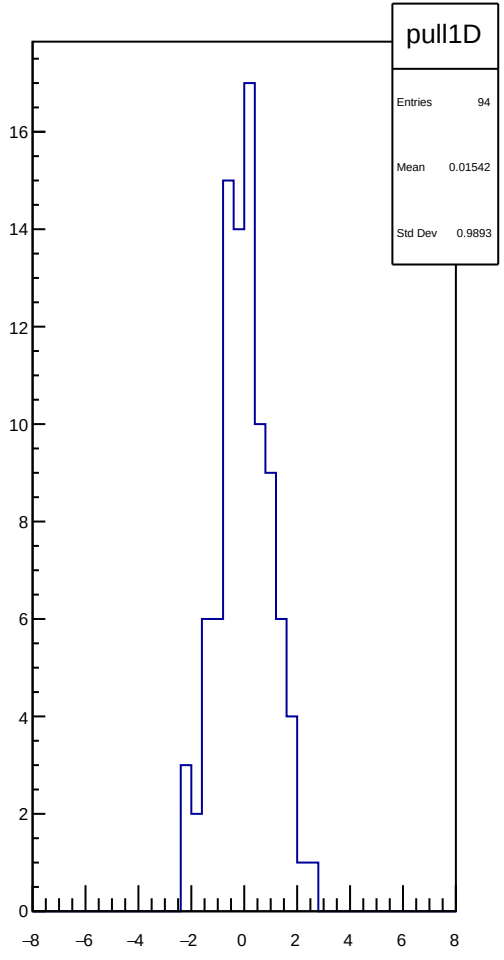

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

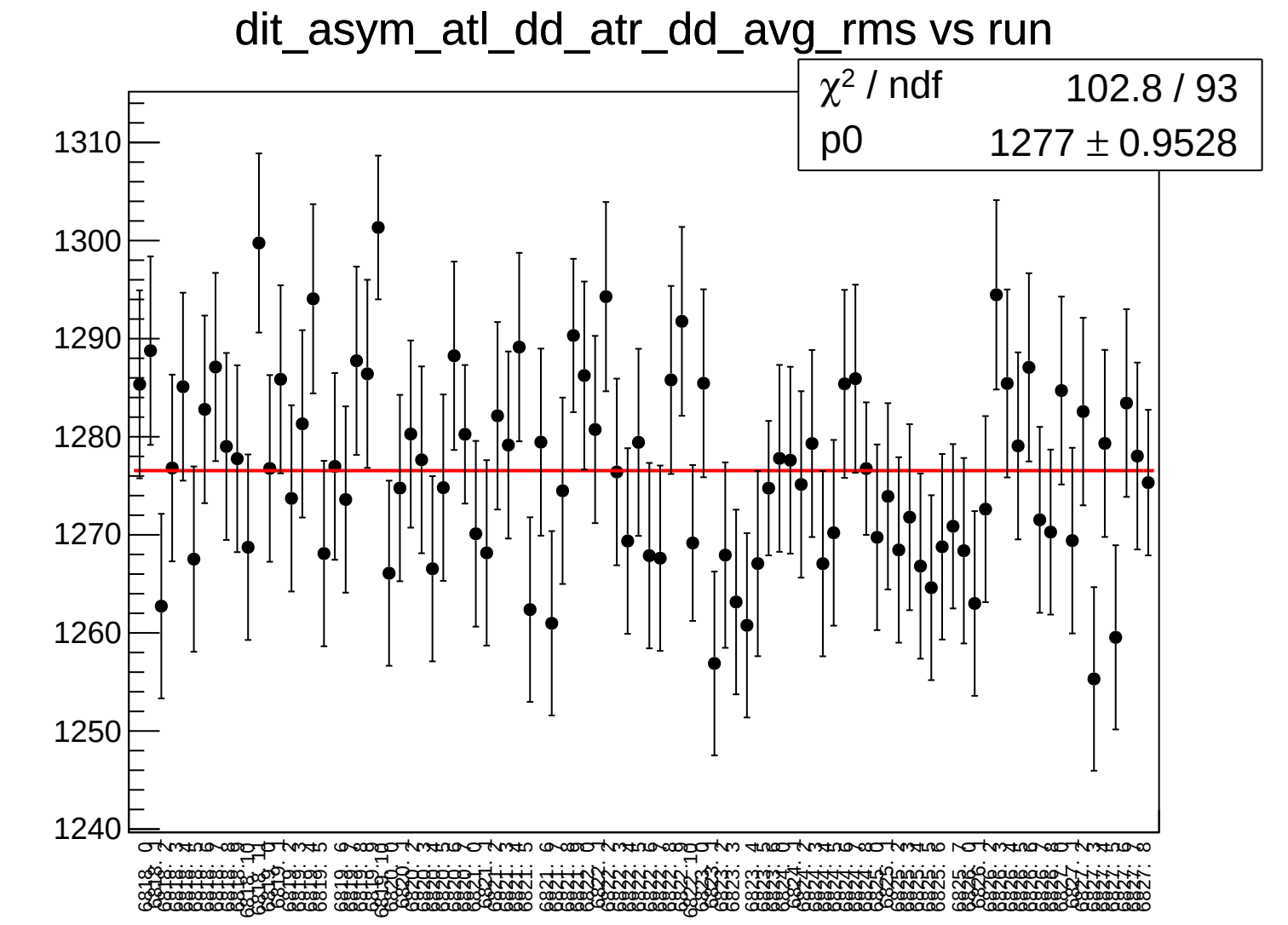

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2

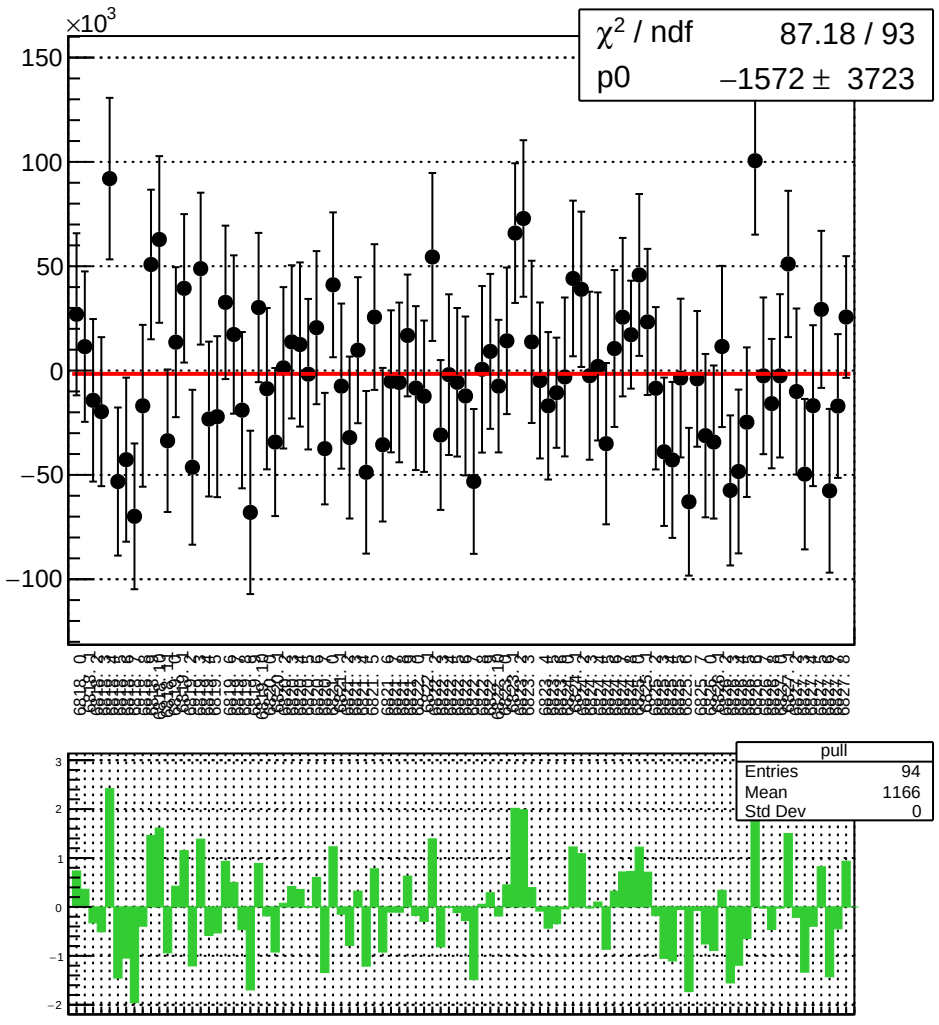

pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

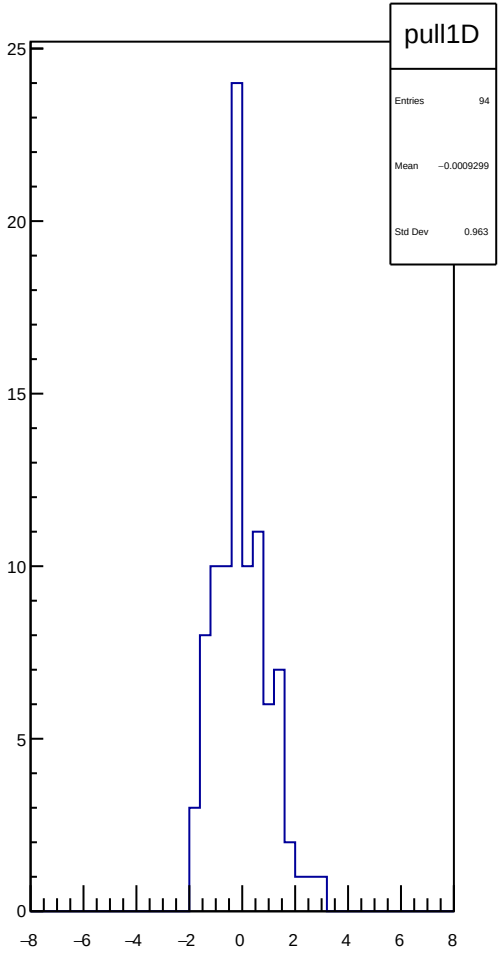

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000

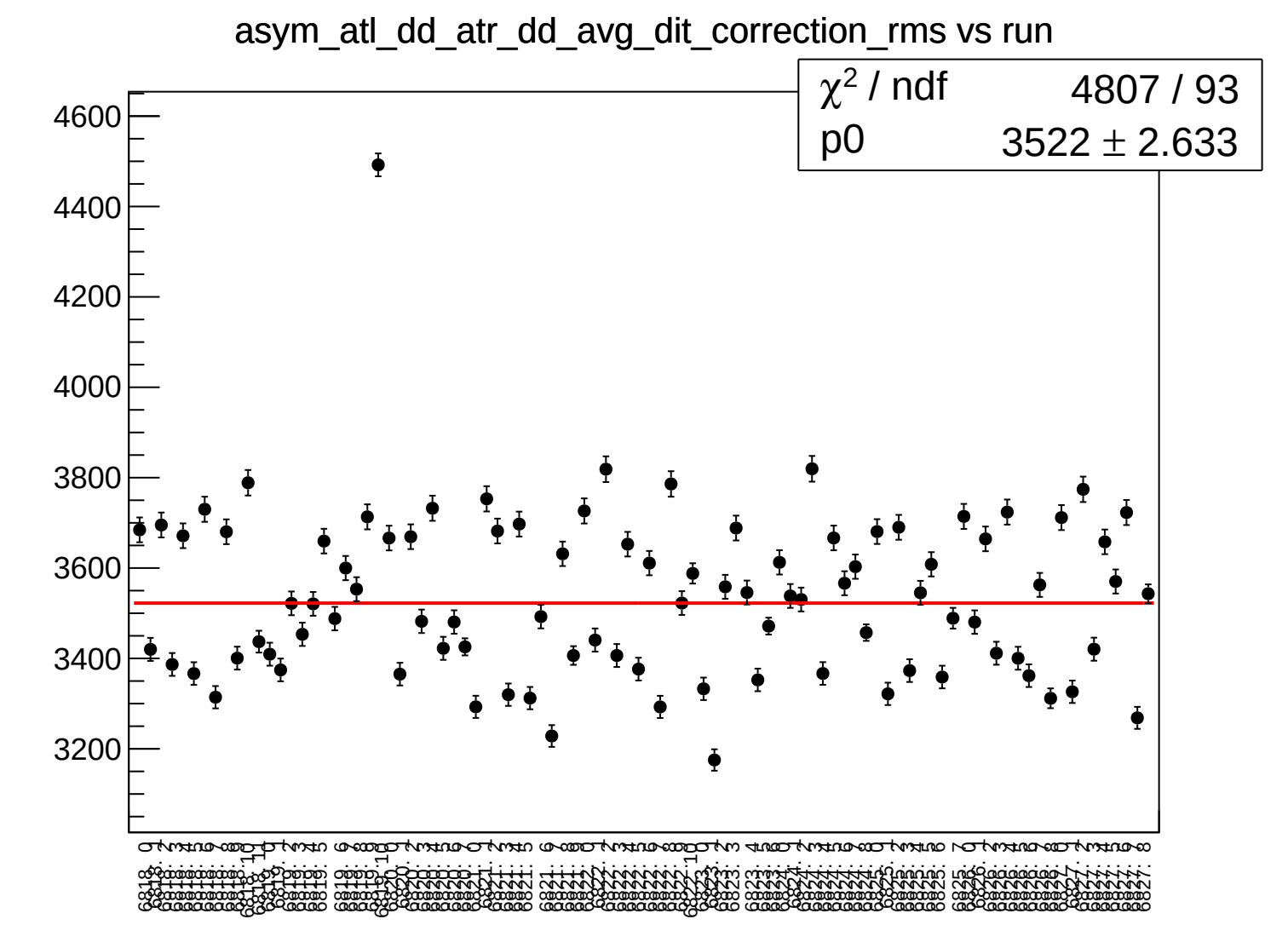

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2

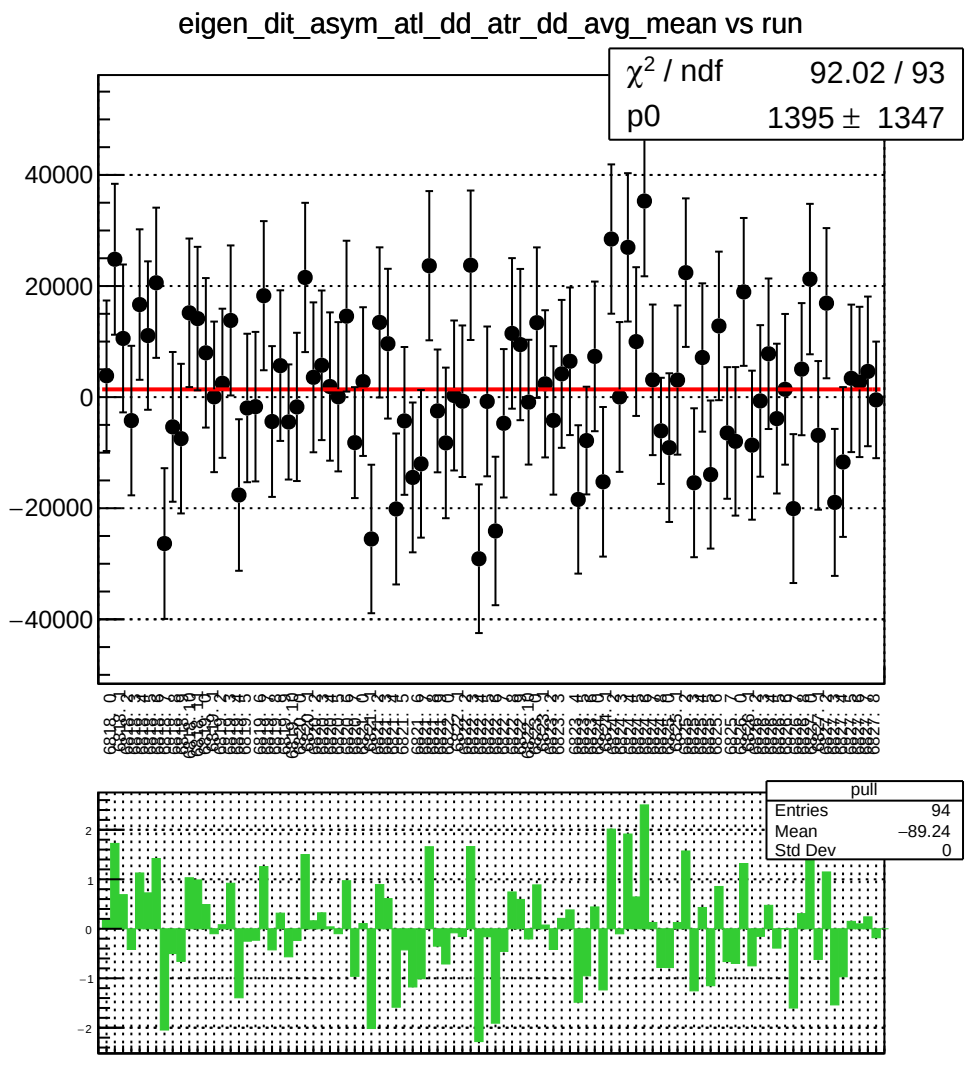

pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

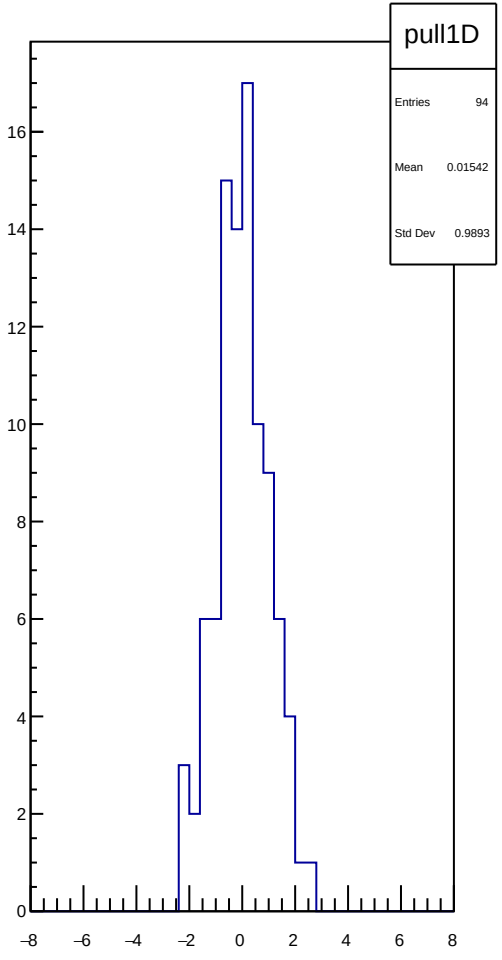

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

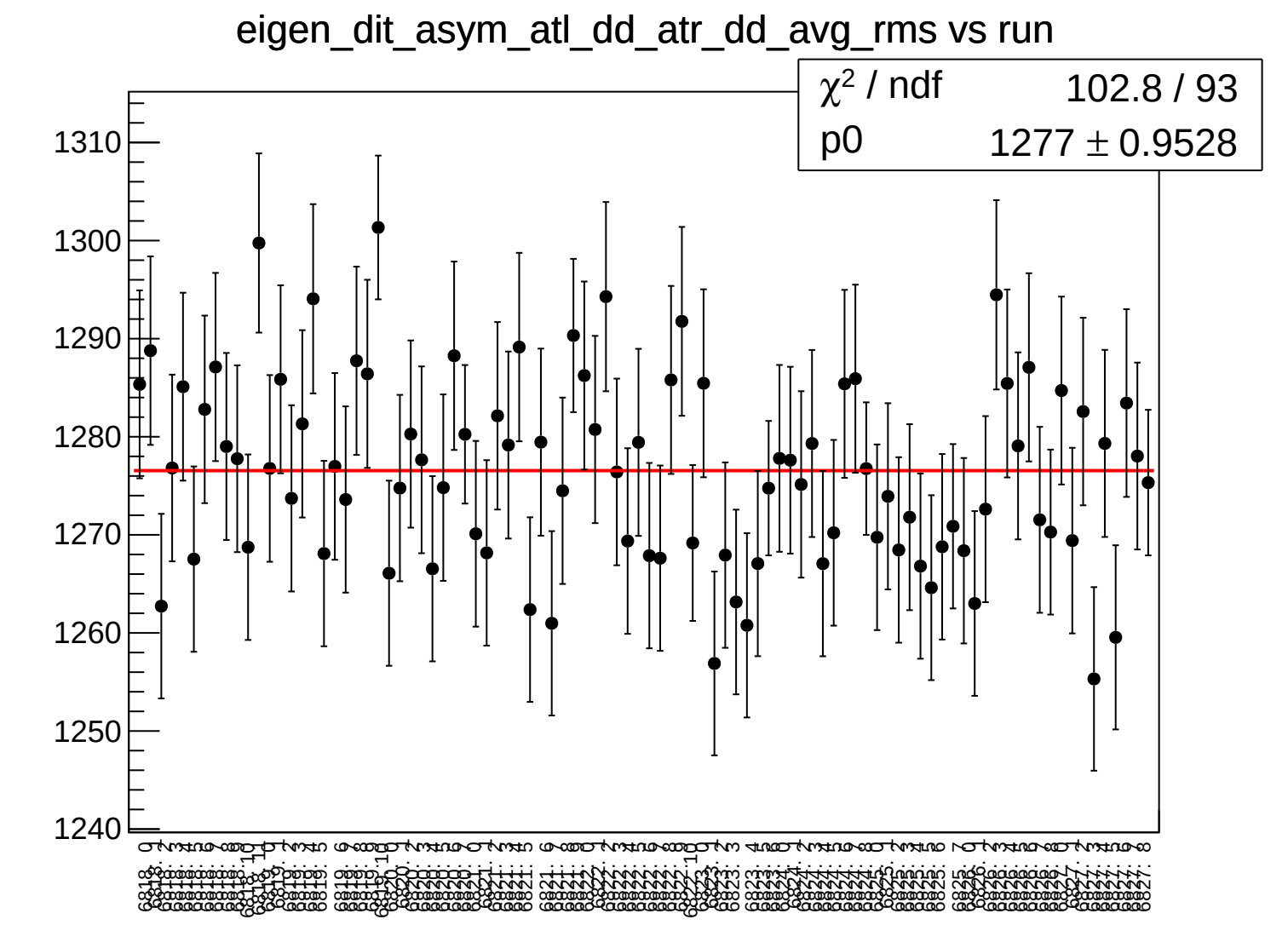

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

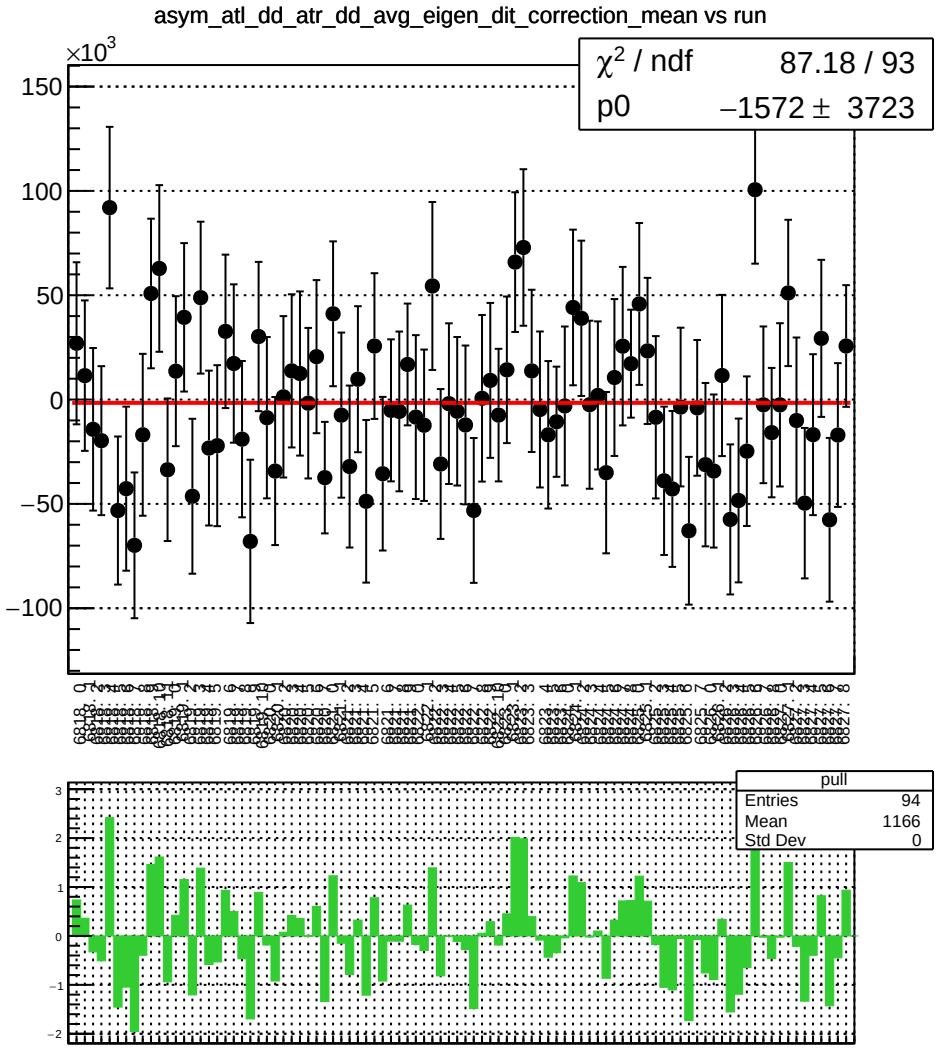

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

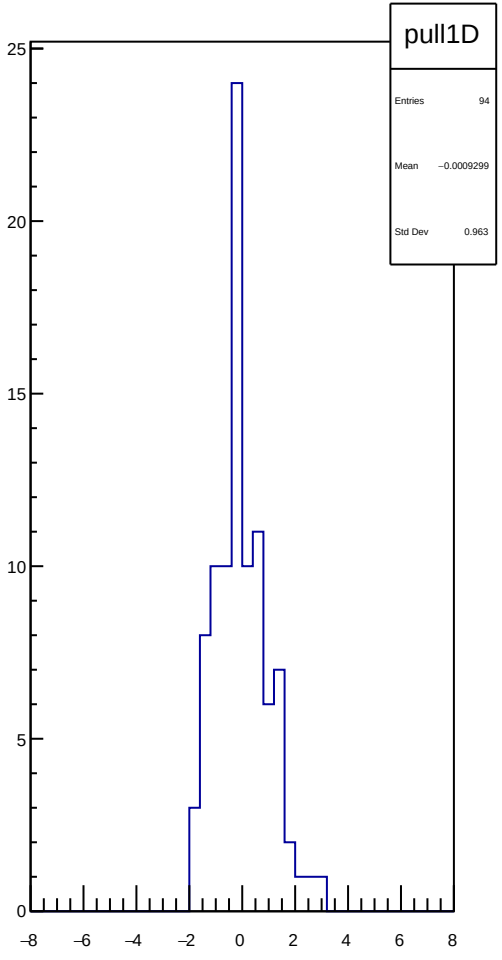

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

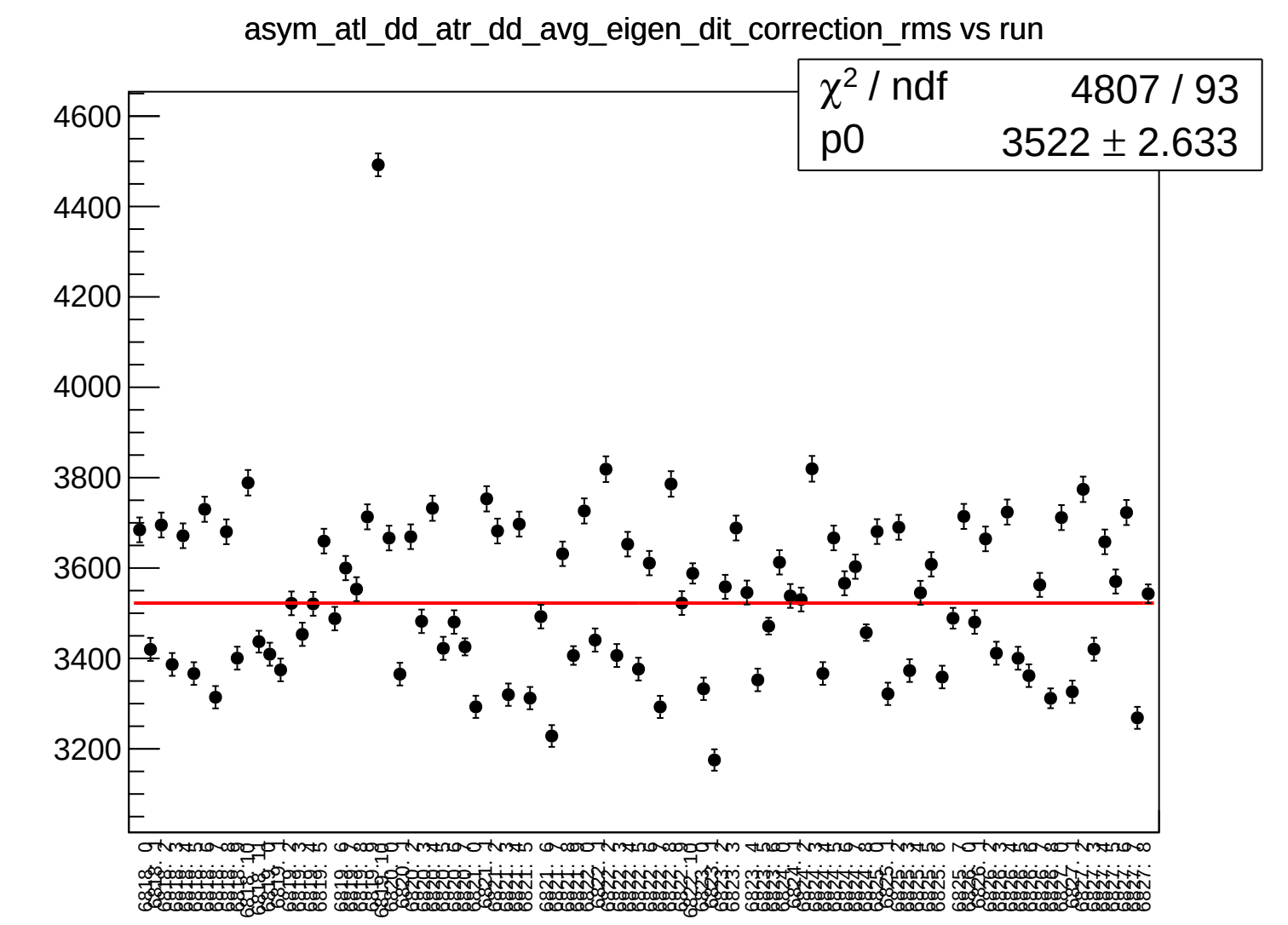

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2

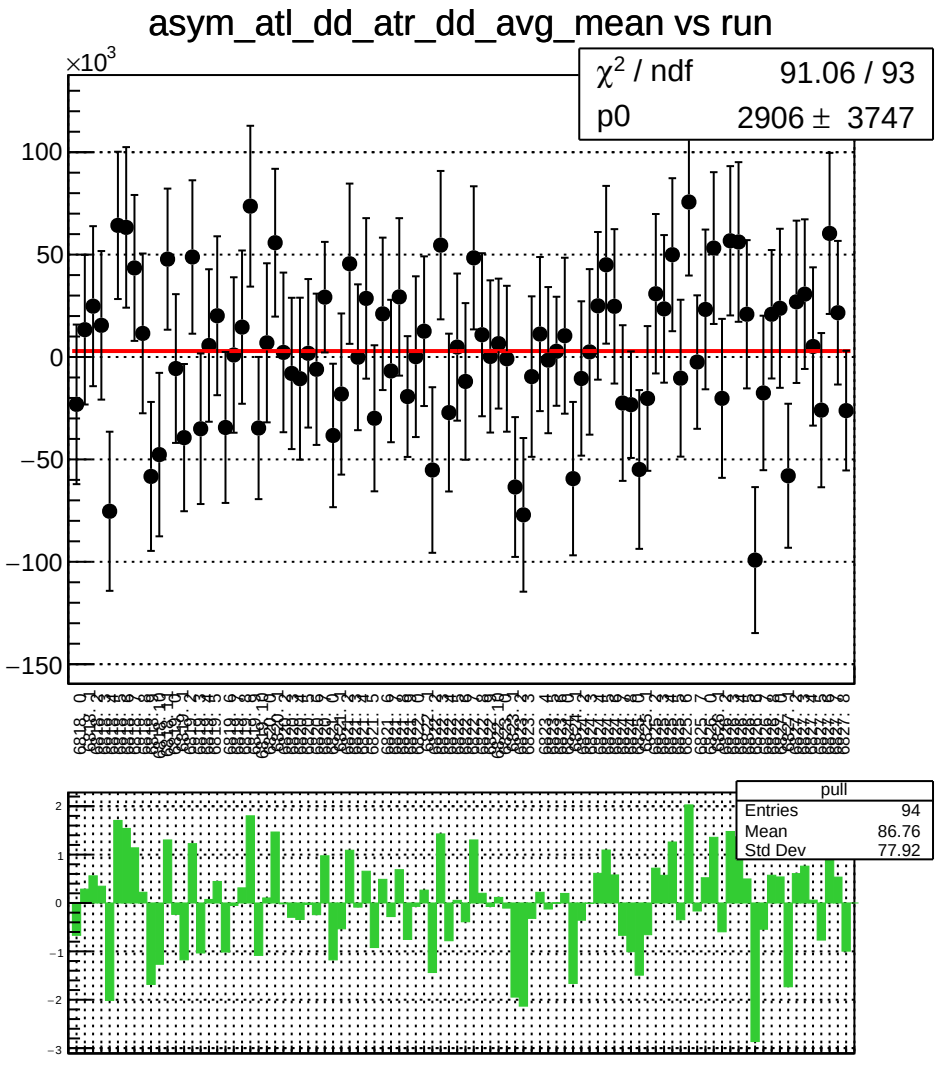

pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

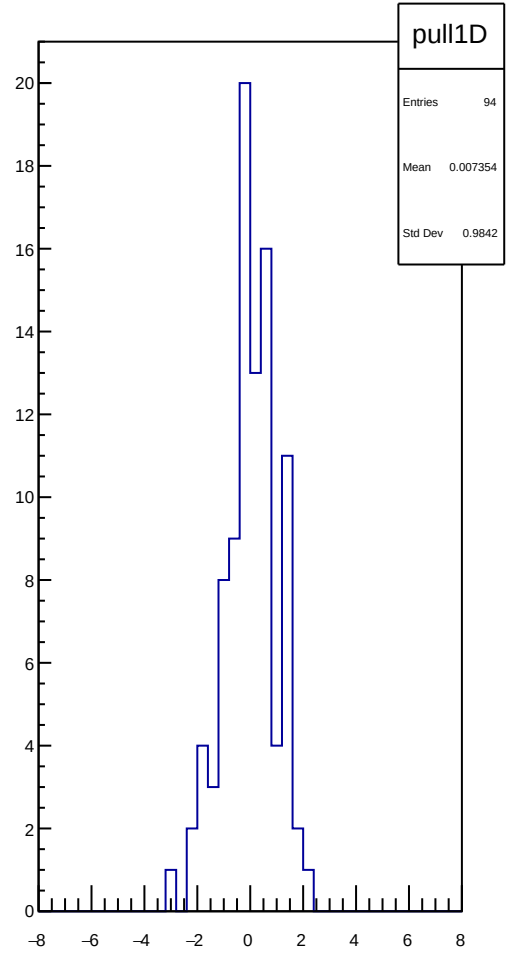

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

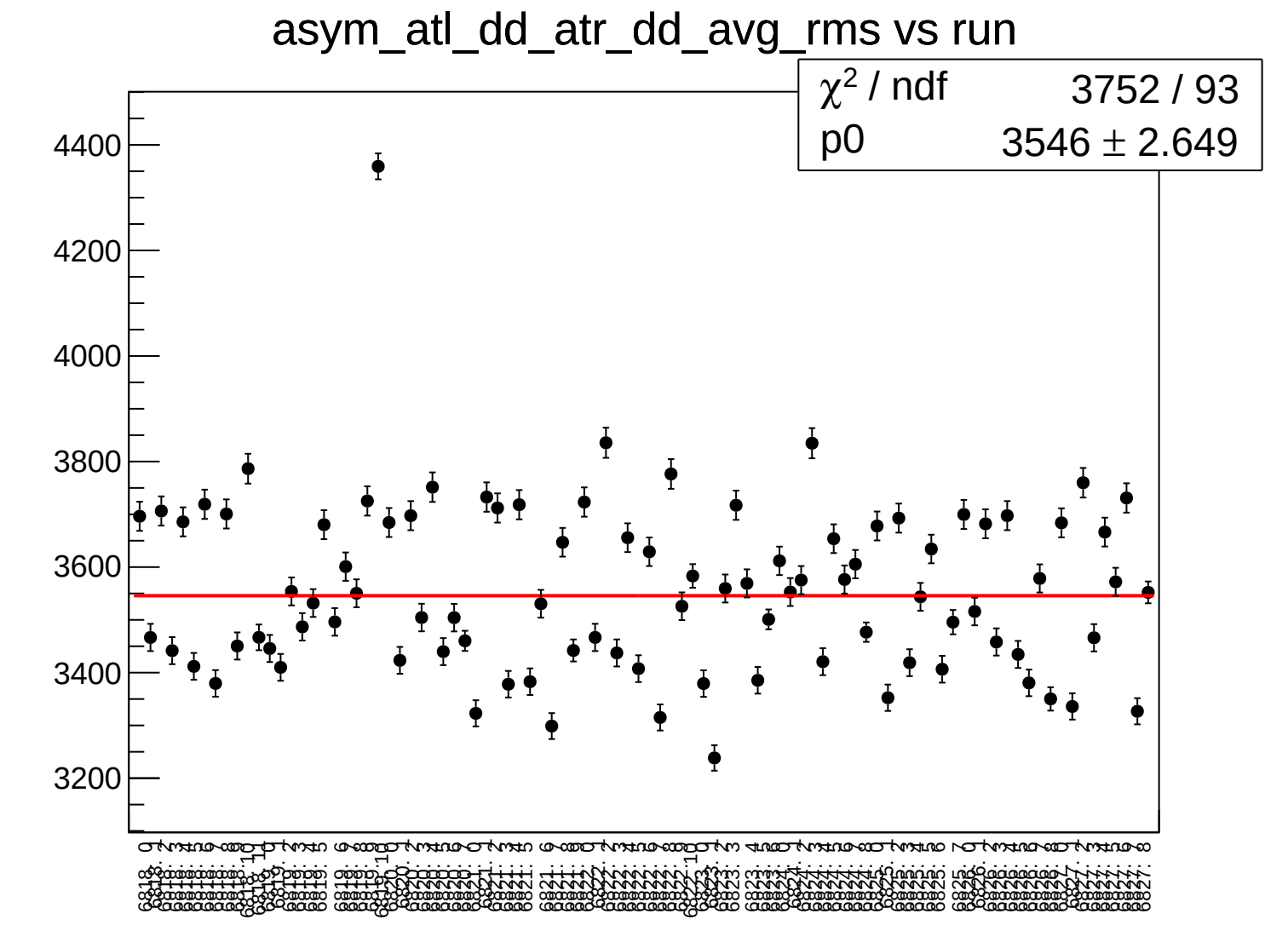

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

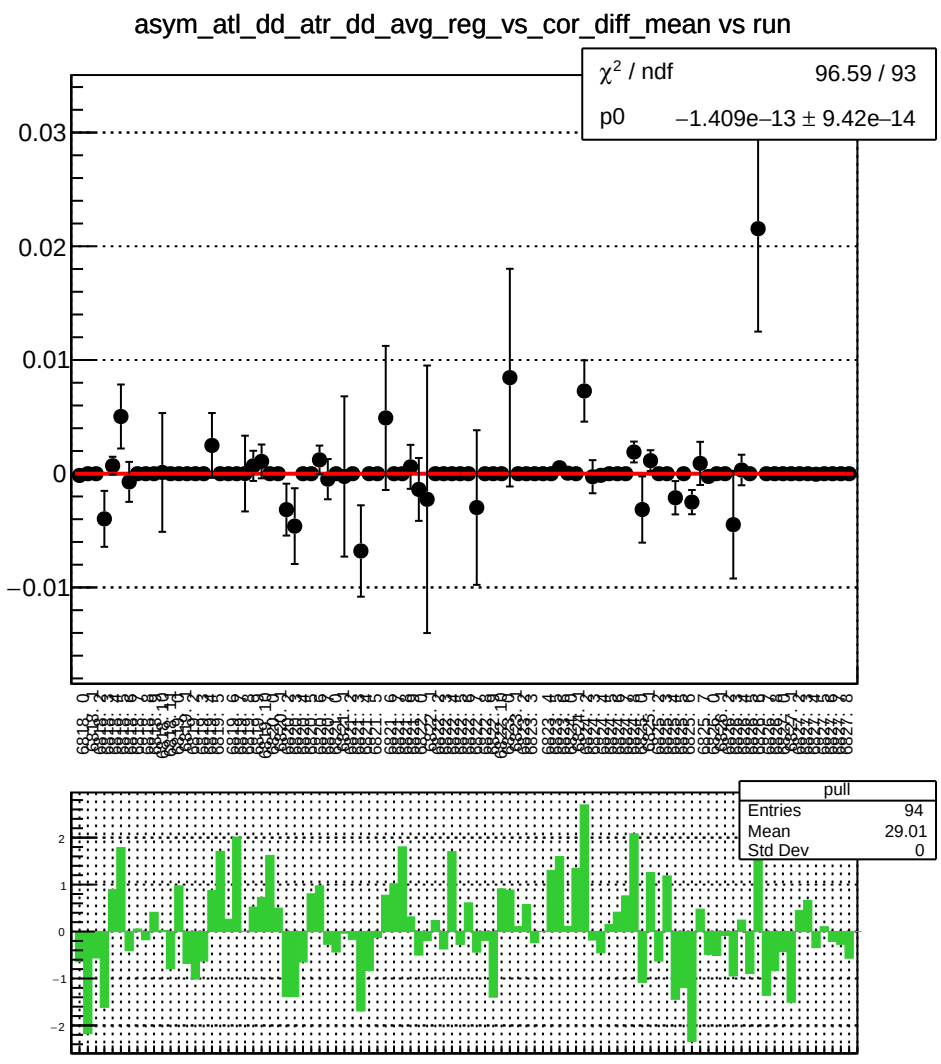

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

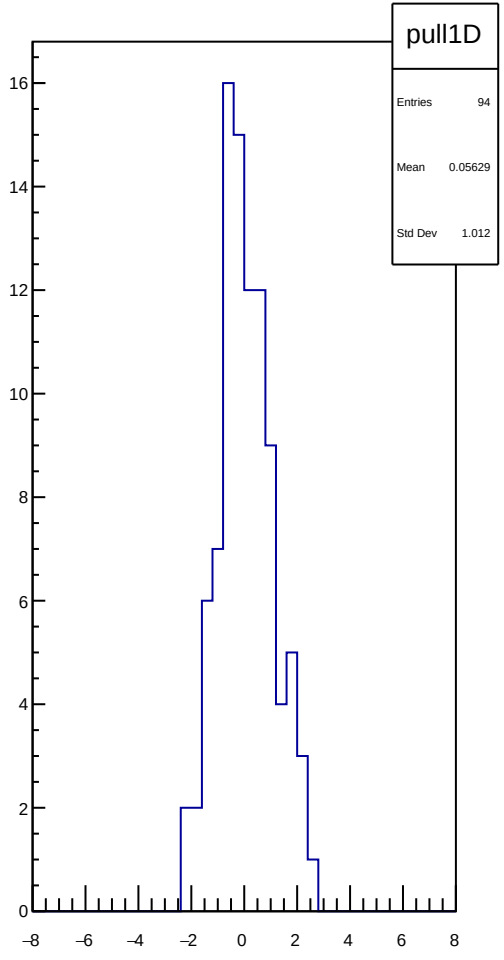

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

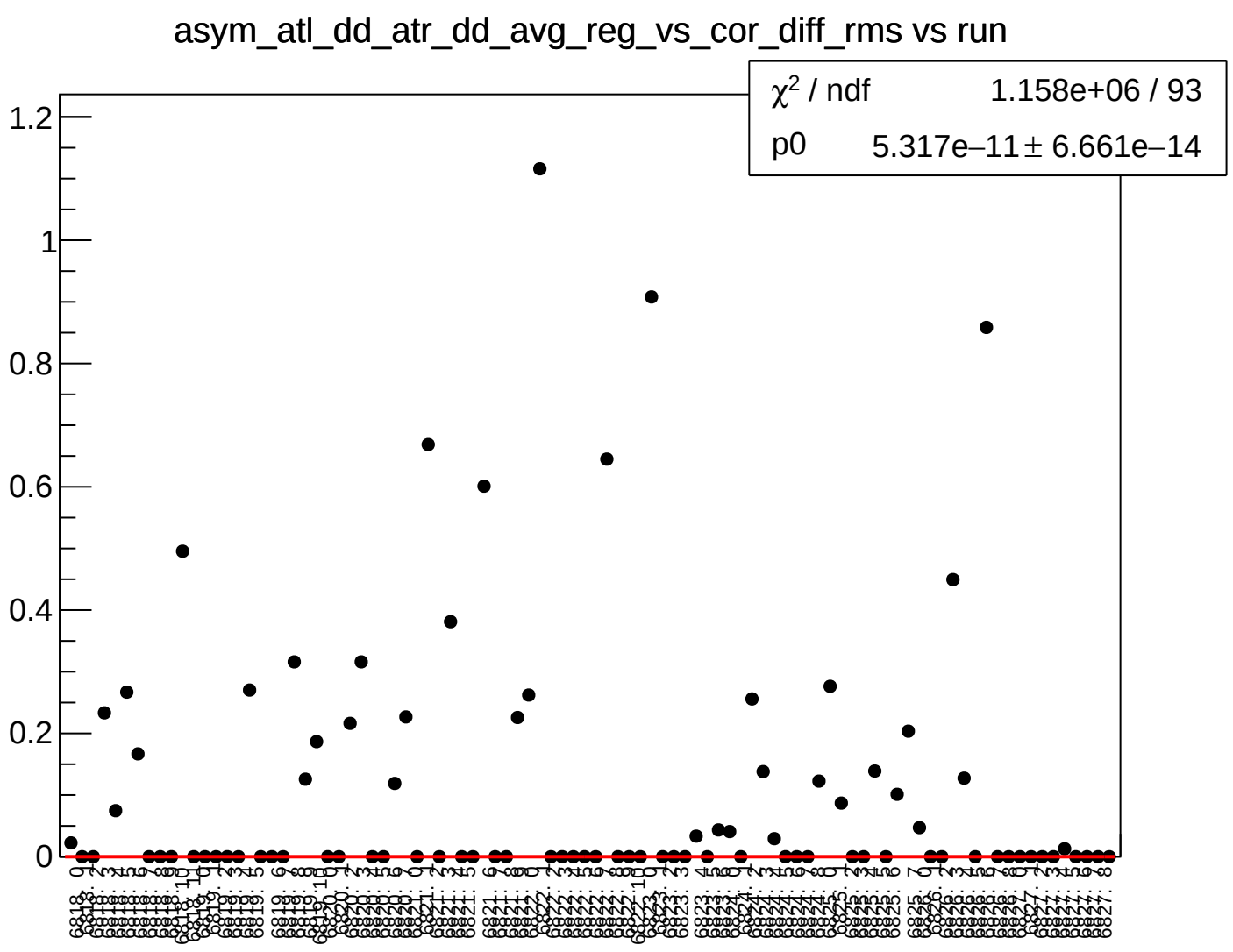

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 91.06 / 93
p0 2906 ± 3747
100
50
0
−50
−100
−150
pull
Entries 94
Mean 86.76
Std Dev 77.92
2
1
0
−1
−2
−3

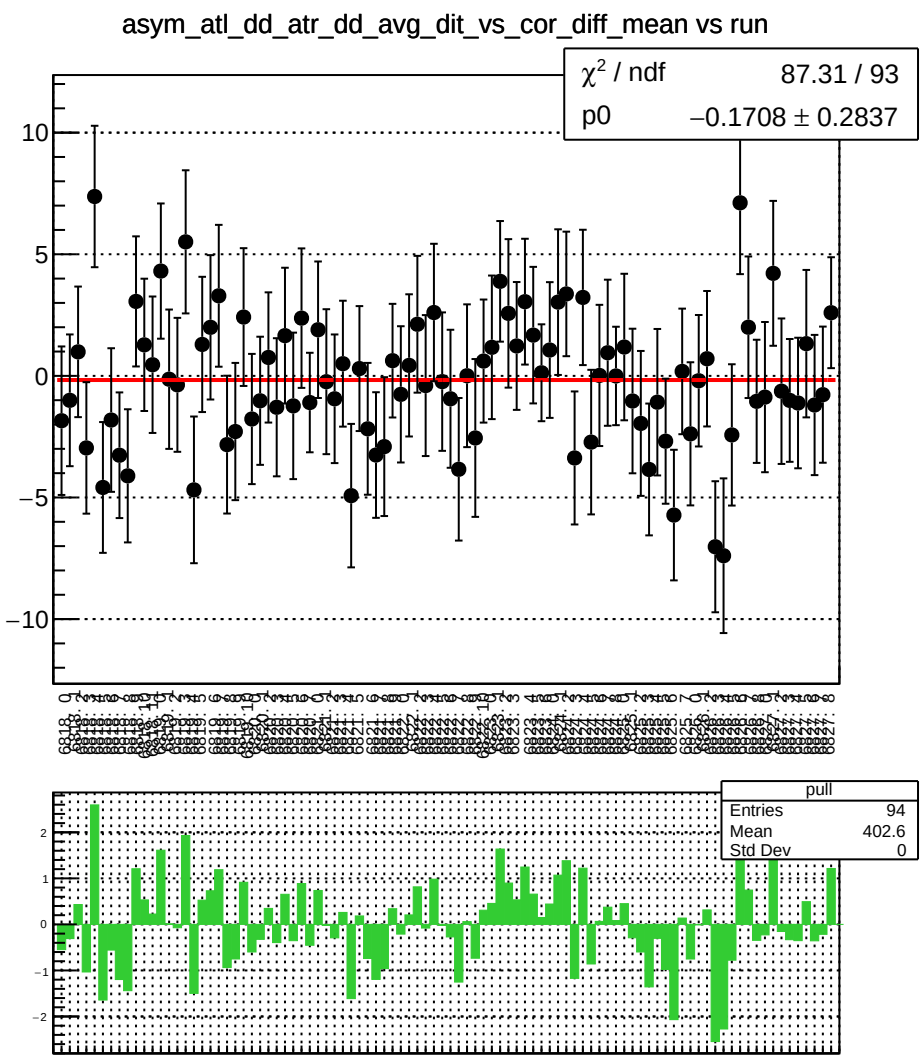

pull1D
Entries 94
Mean 0.007354
Std Dev 0.9842
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

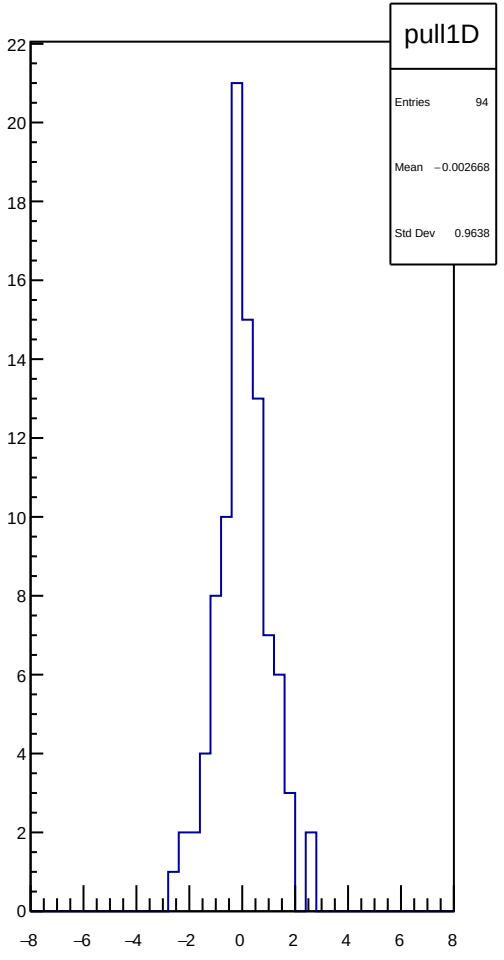

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 3752 / 93
p0 3546 ± 2.649
4400
4200
4000
3800
3600
3400
3200

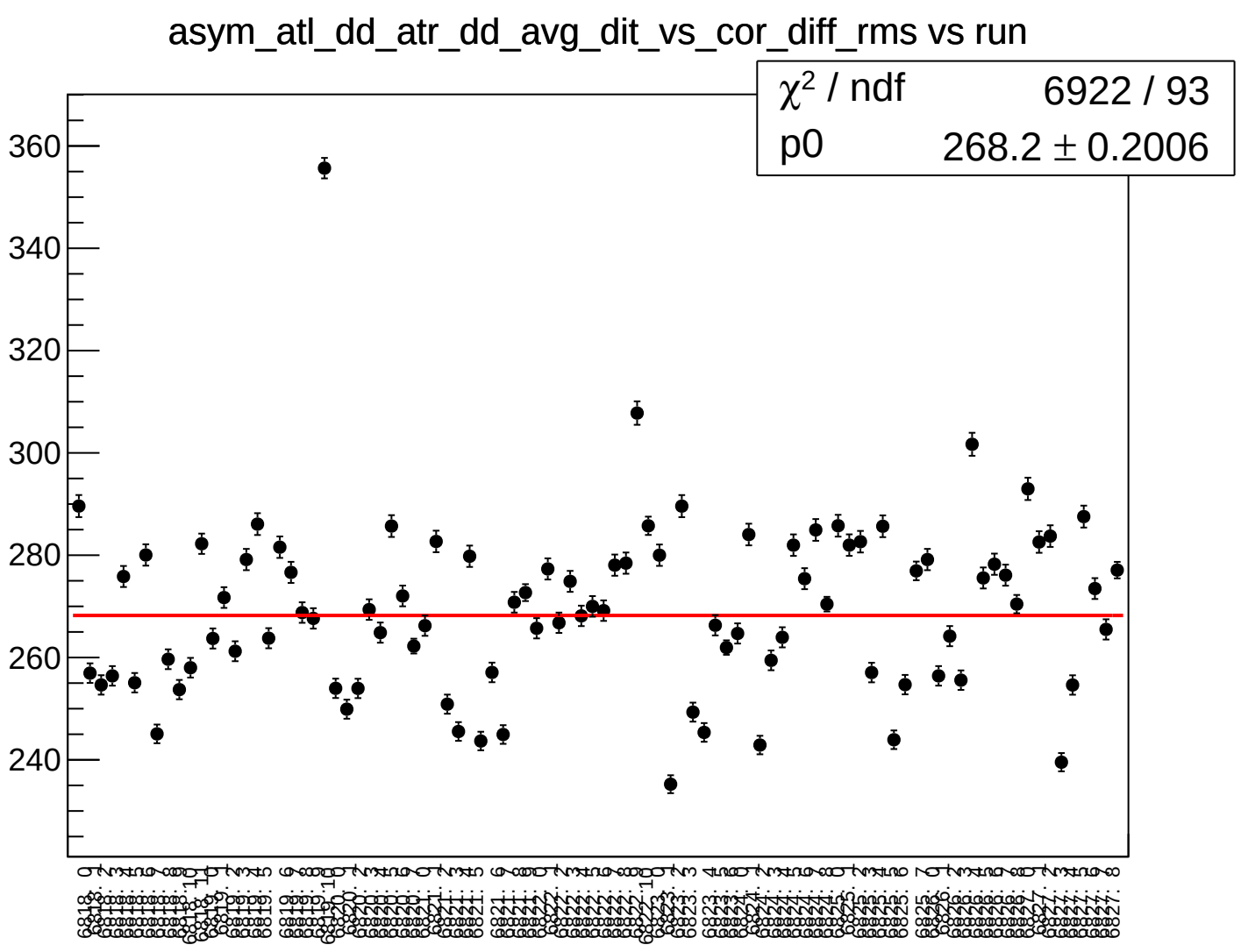

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.59 / 93
p0 −1.409e−13 ± 9.42e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 94
Mean 29.01
Std Dev 0
2
1
0
−1
−2

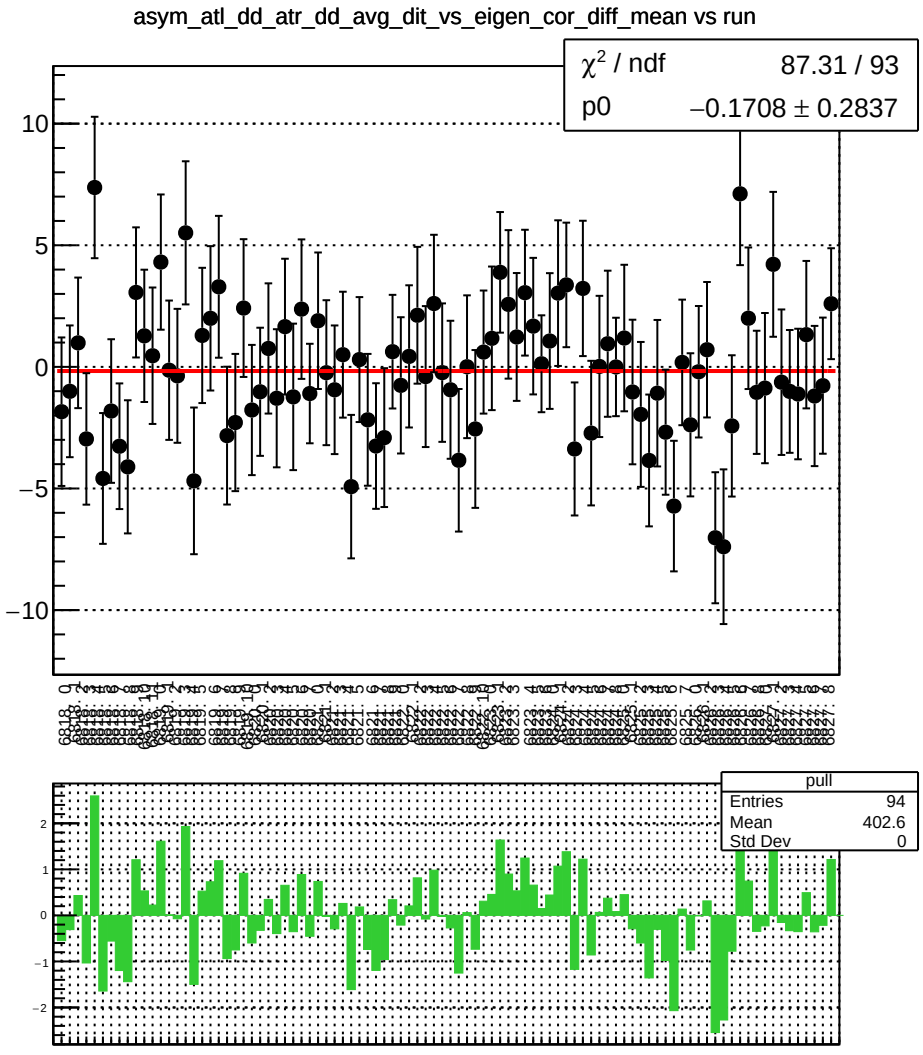

pull1D
Entries 94
Mean 0.05629
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

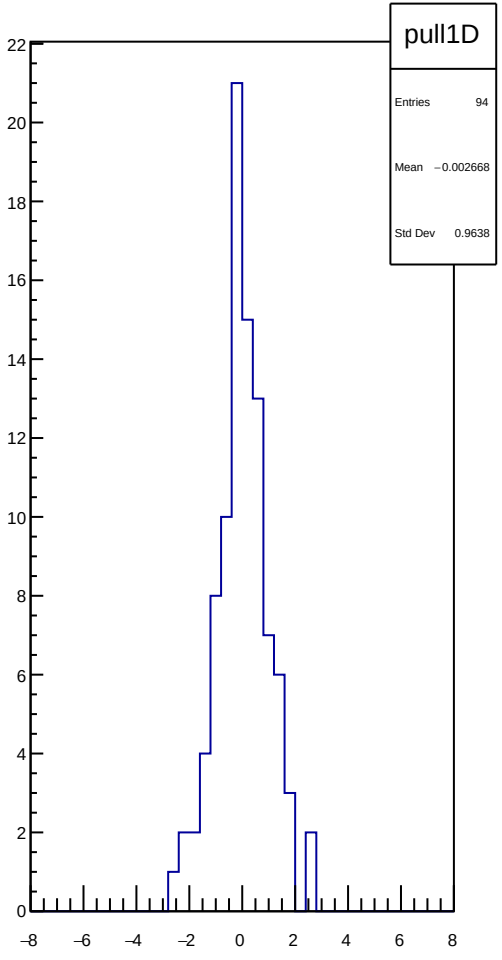

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 93
p0 5.317e−11 ± 6.661e−14
1.2
1
0.8
0.6
0.4
0.2
0

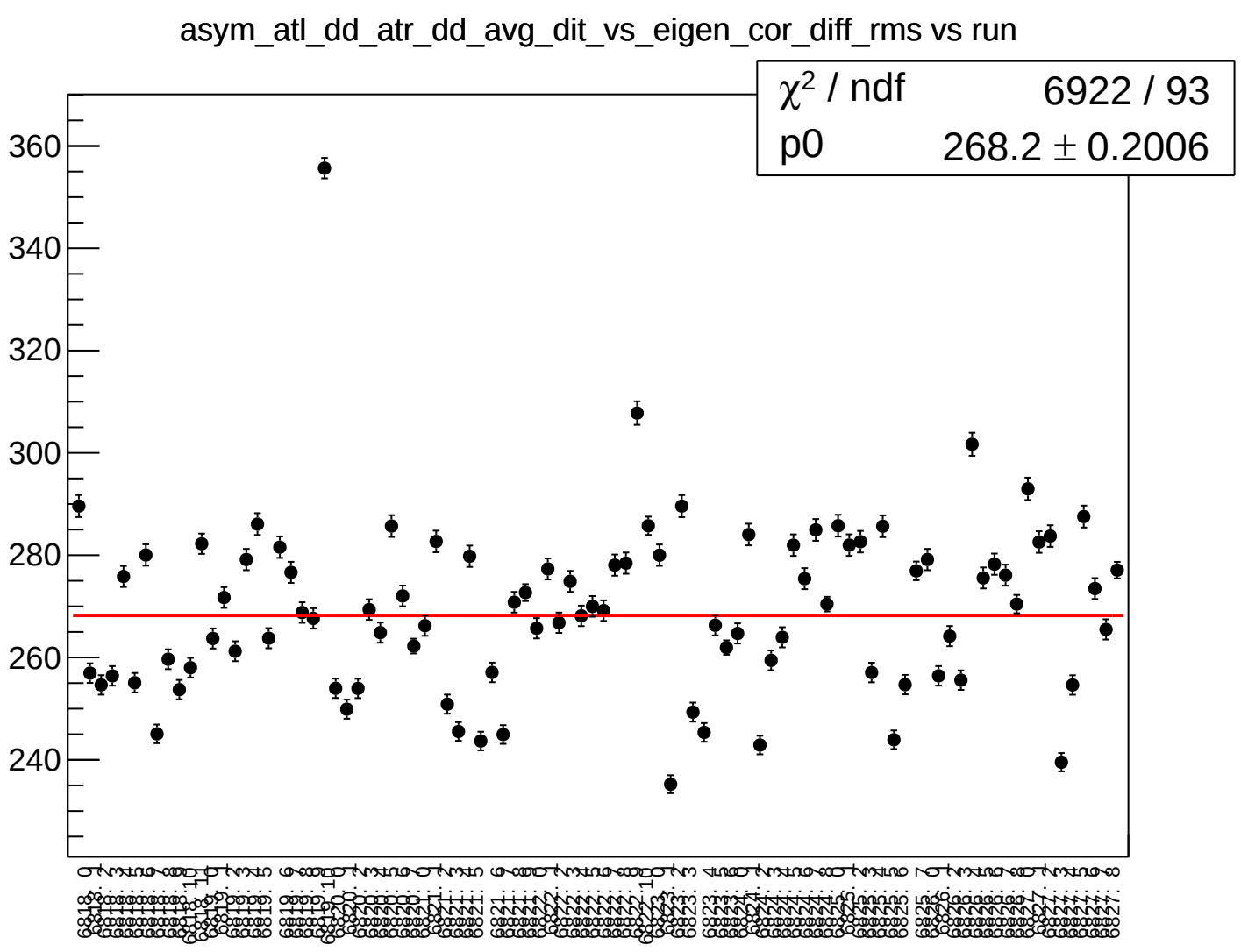

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

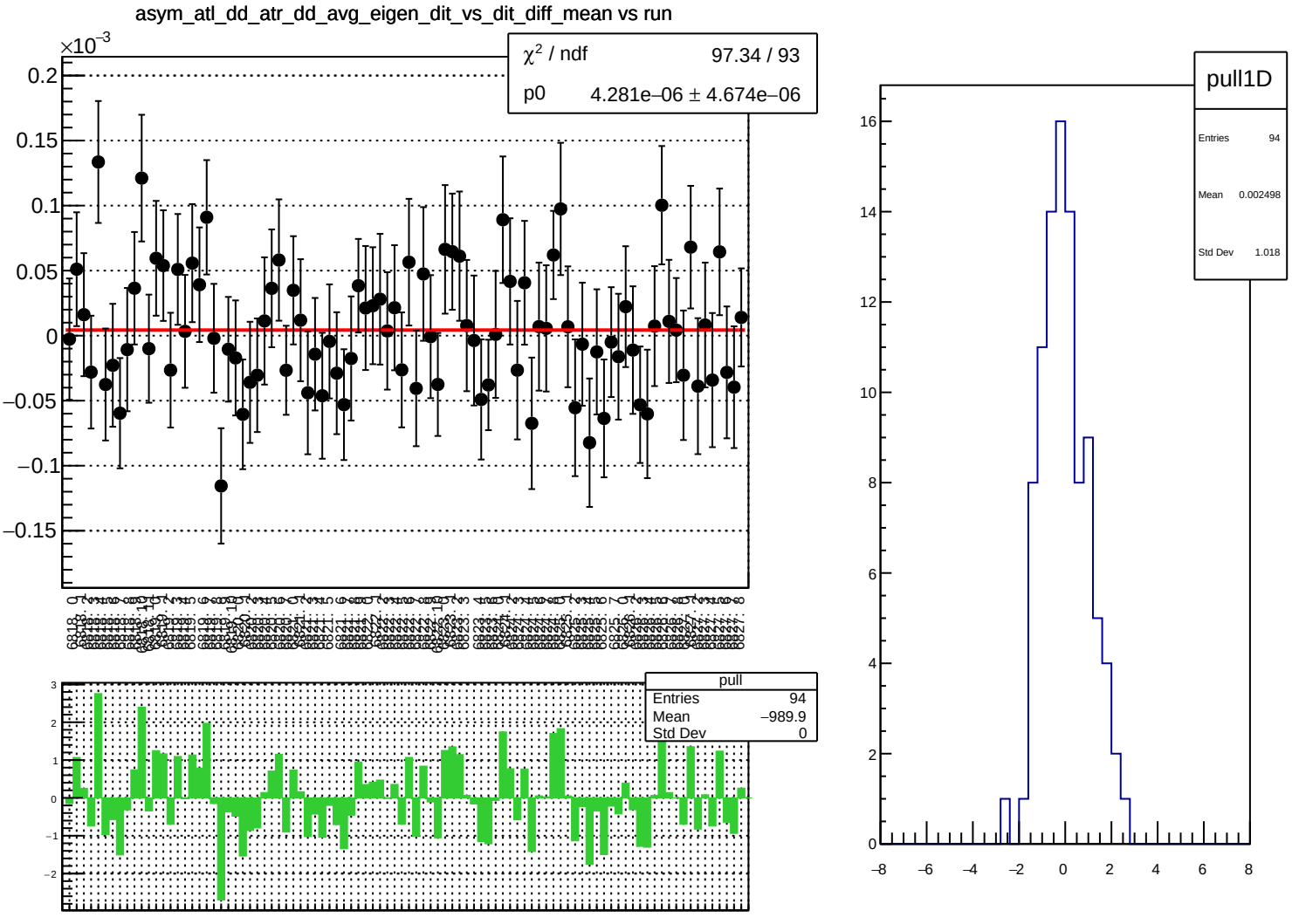

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

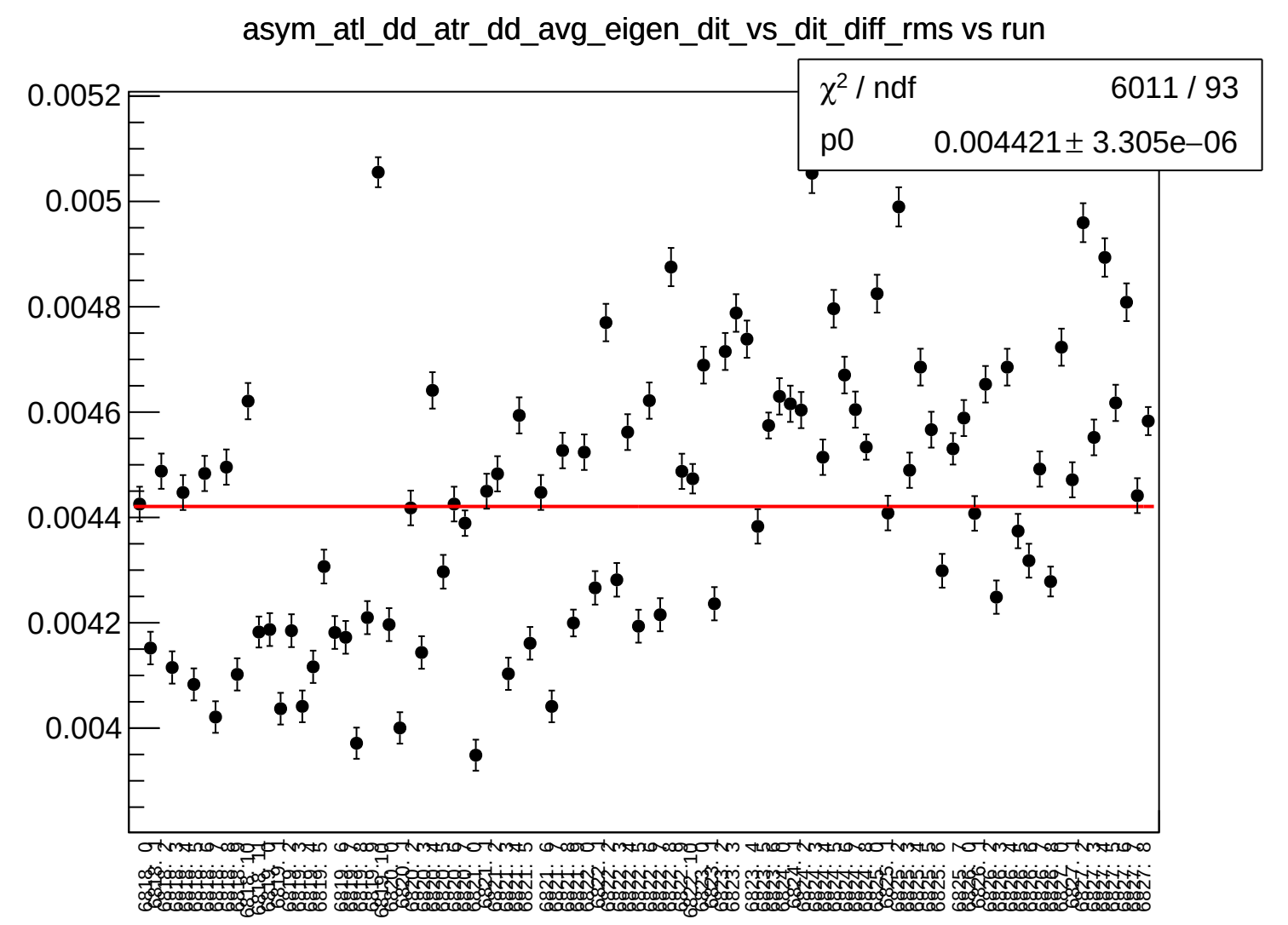

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

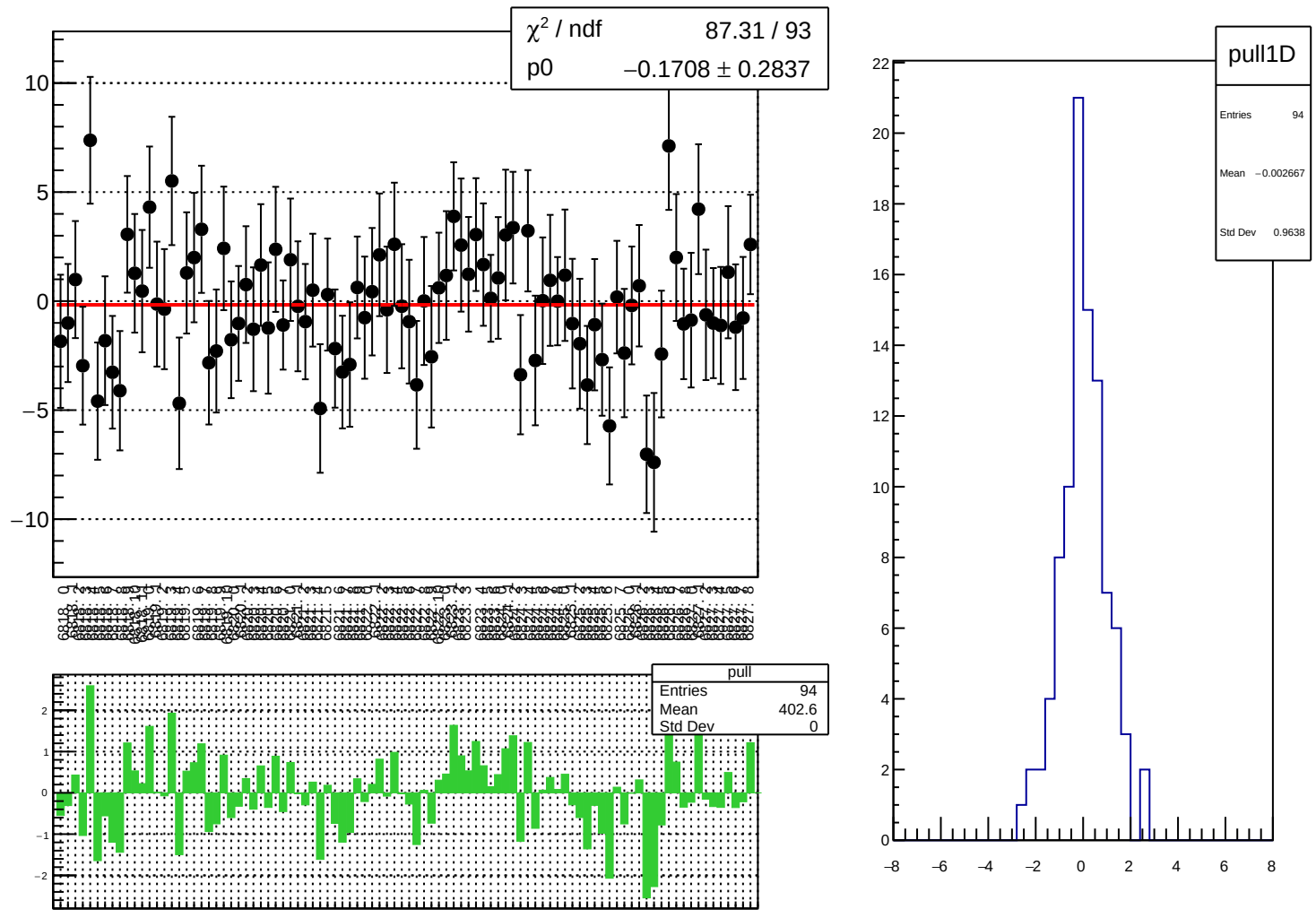

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

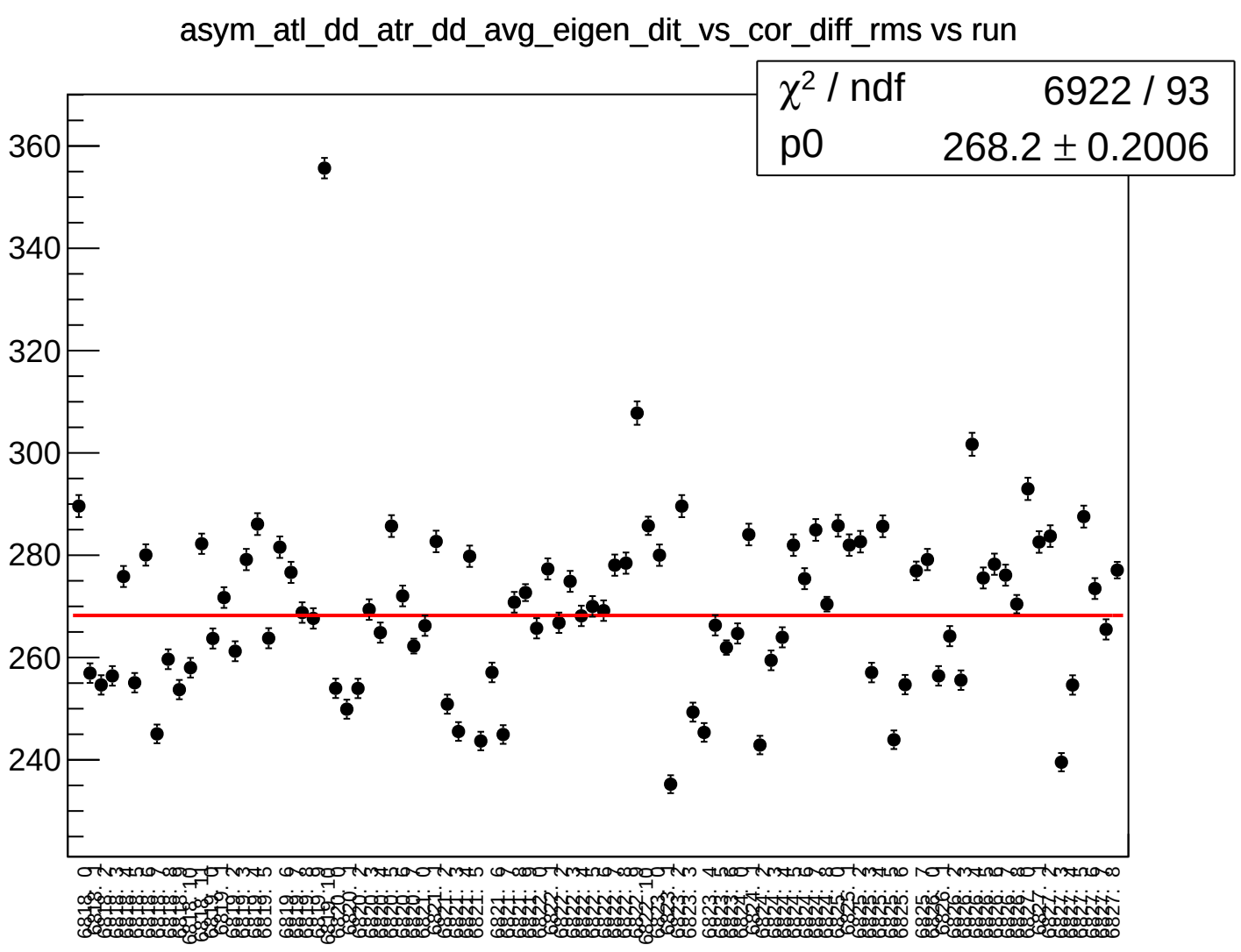

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

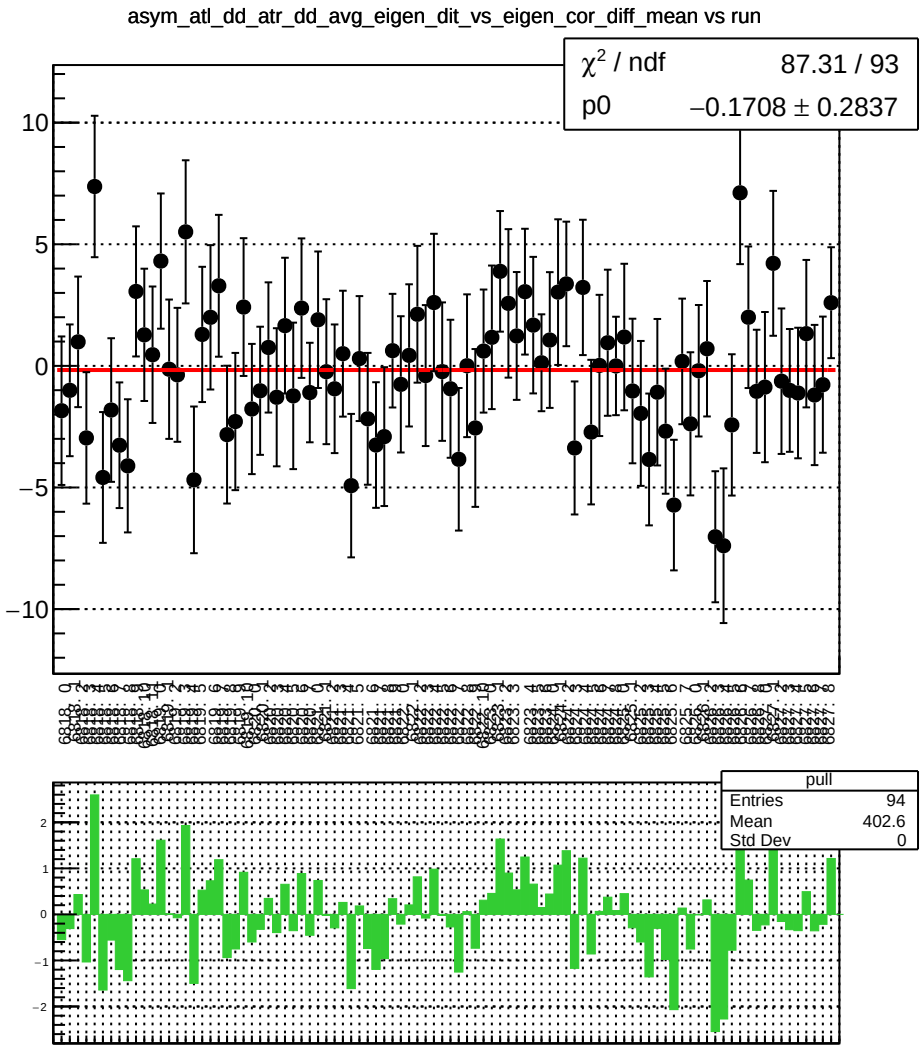

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

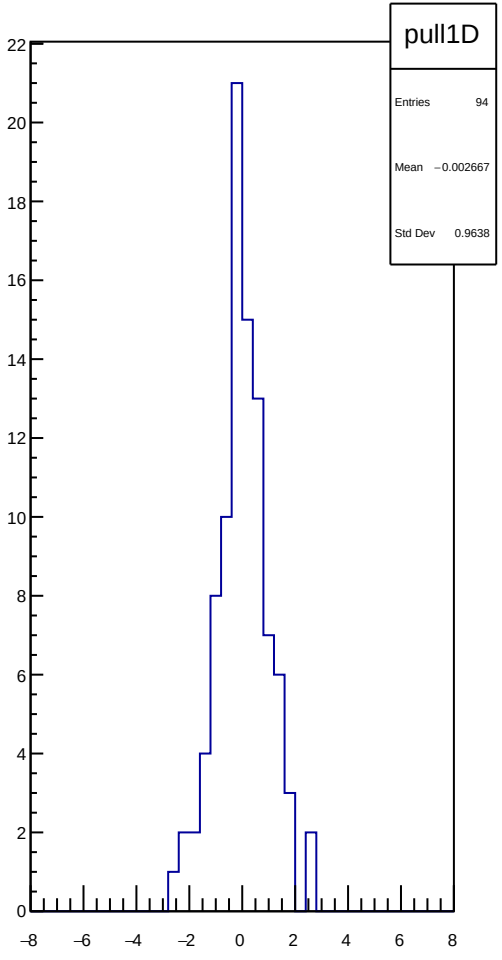

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.34 / 93
p0 4.281e−06 ± 4.674e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −989.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002498
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

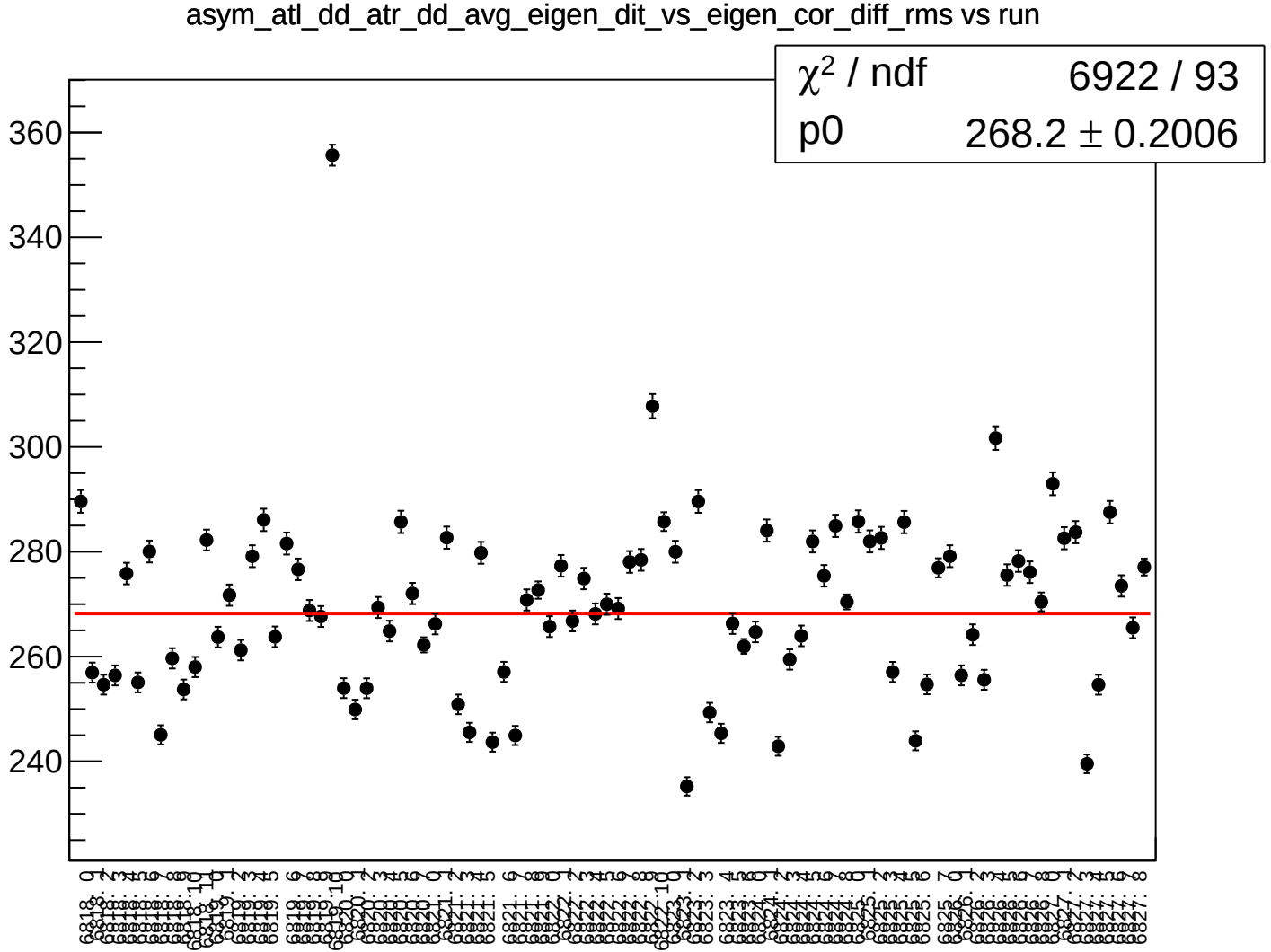

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6011 / 93
p0 0.004421 ± 3.305e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

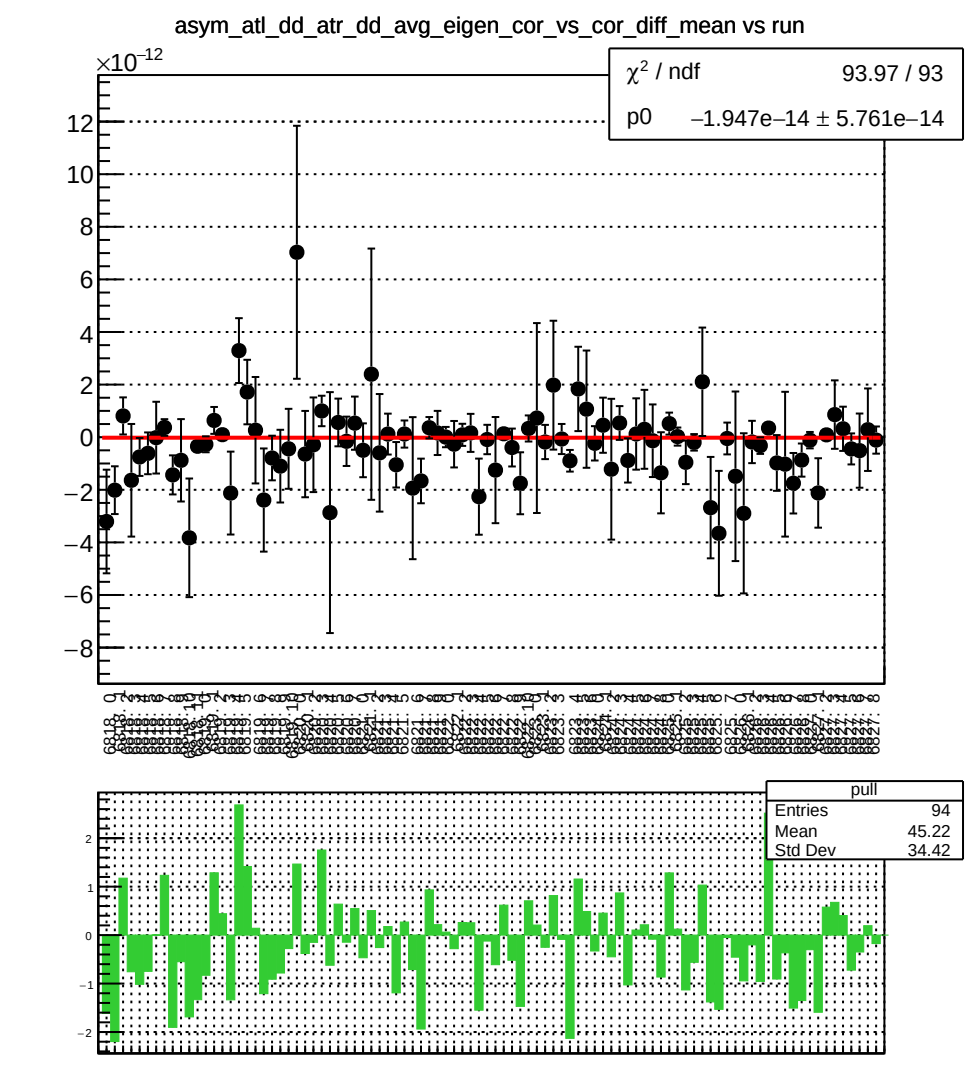

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0
pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

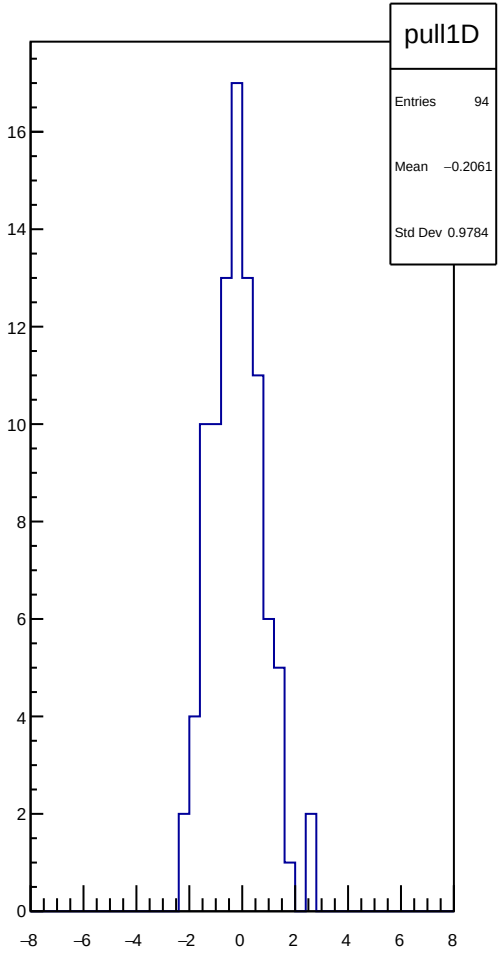

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

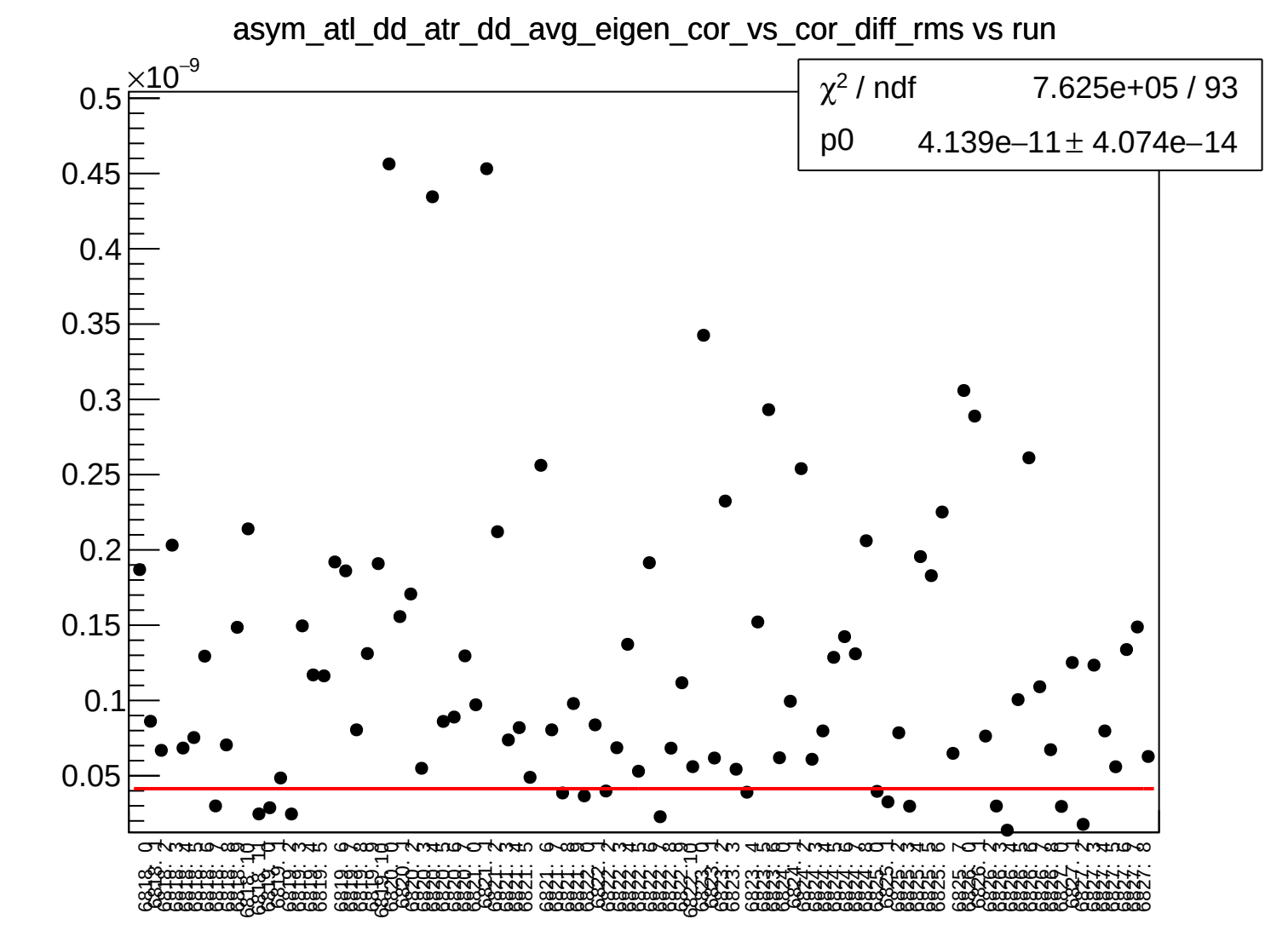

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

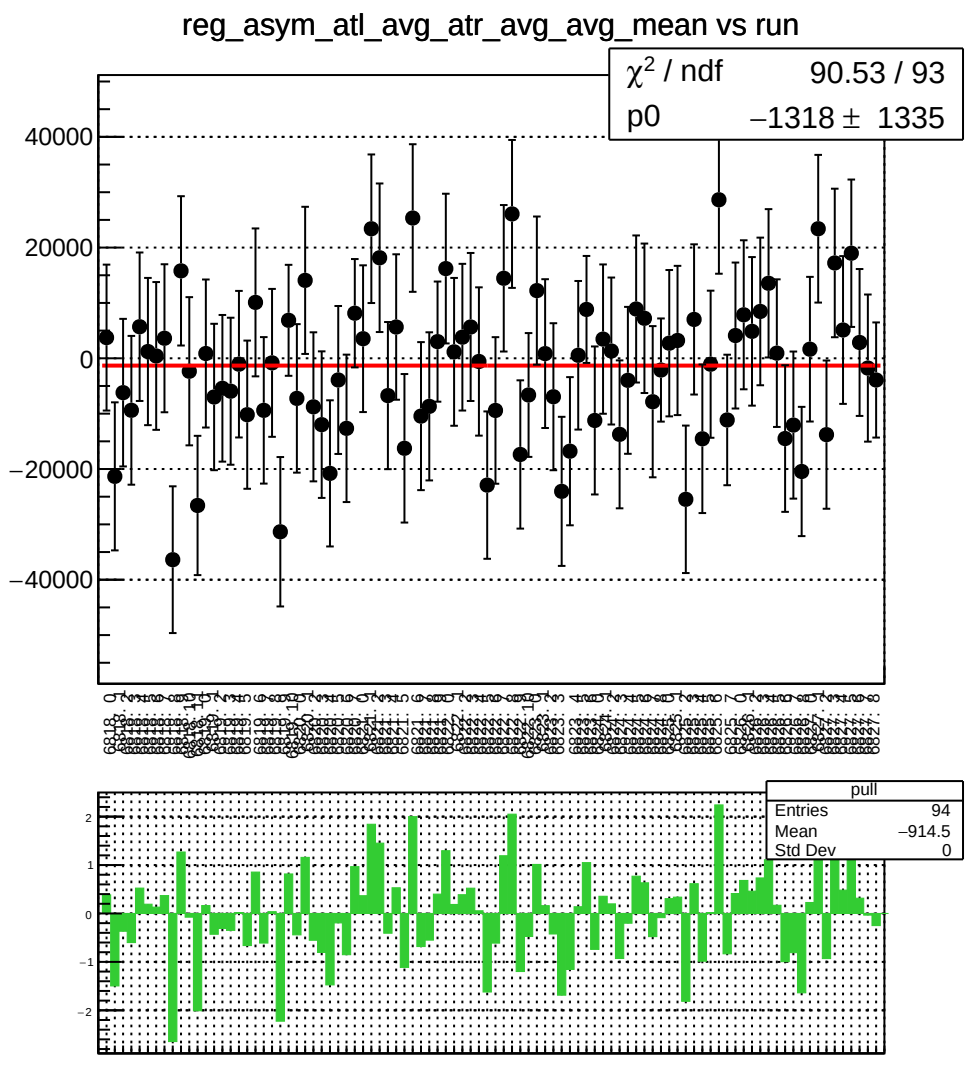

pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

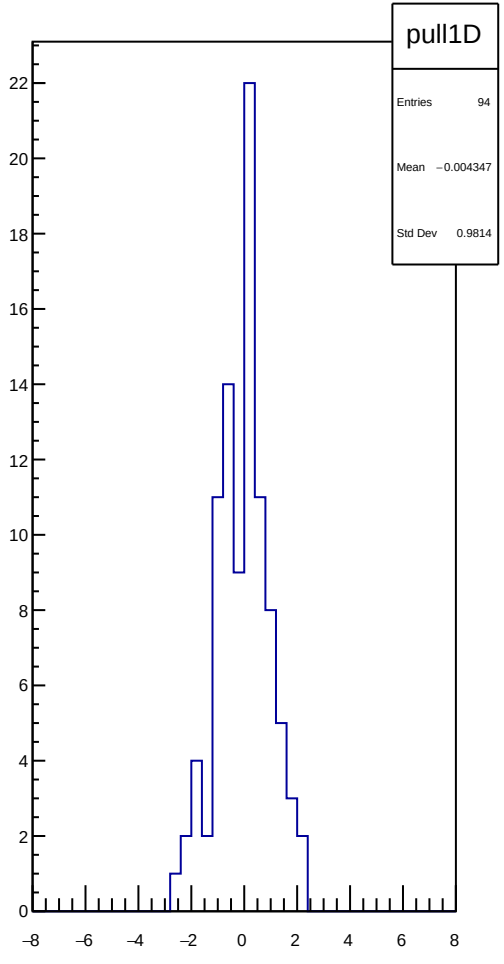

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

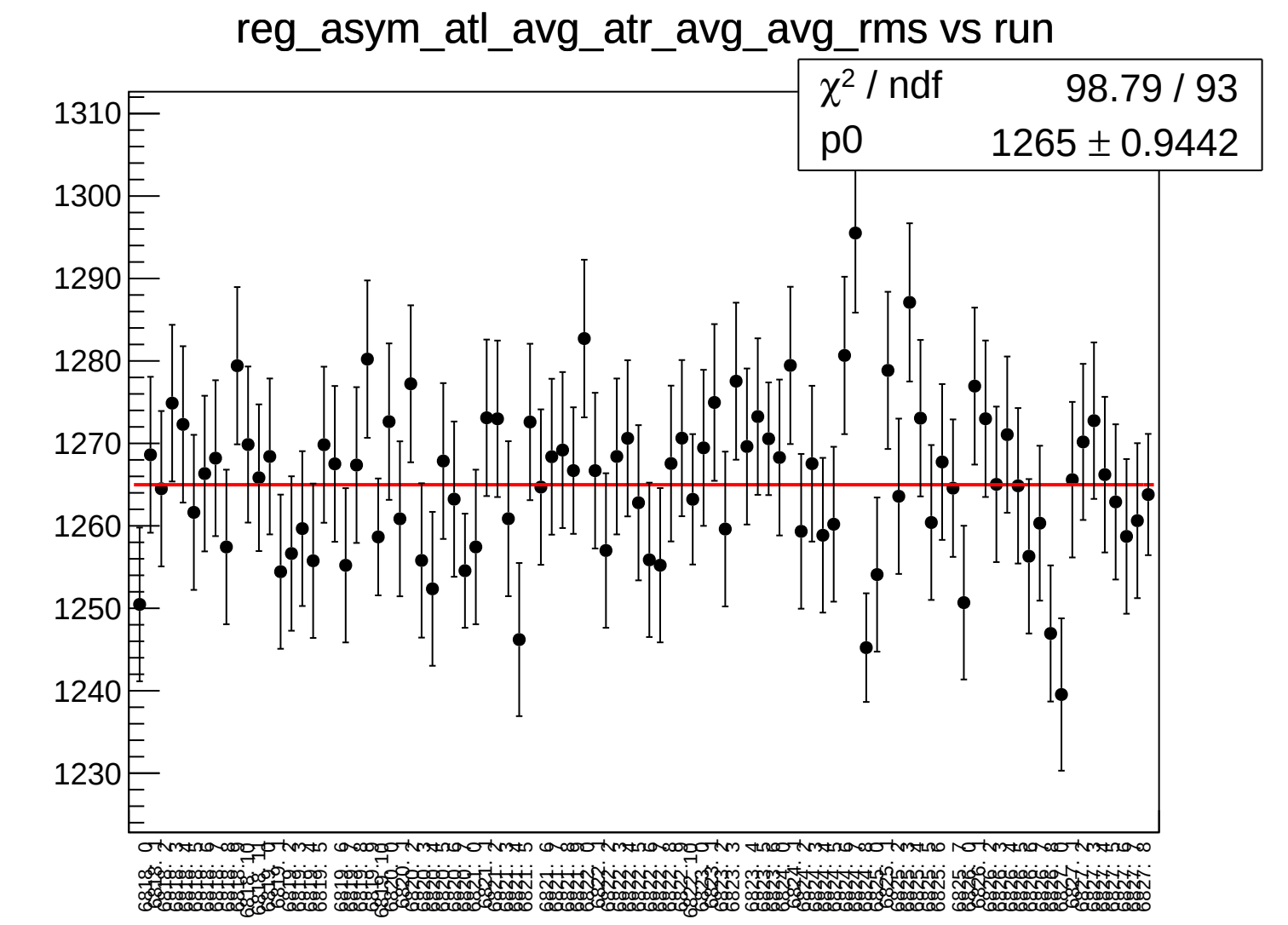

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.97 / 93
p0 −1.947e−14 ± 5.761e−14
pull
Entries 94
Mean 45.22
Std Dev 34.42

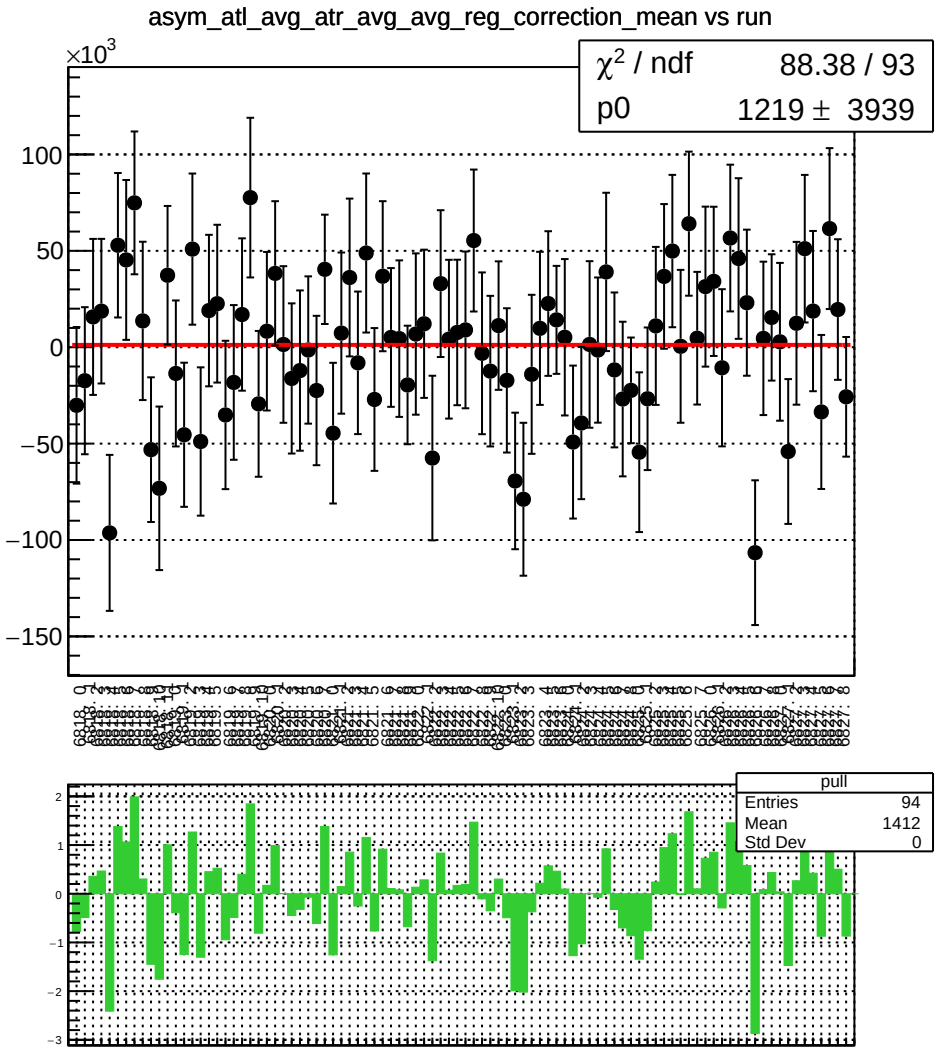

pull1D
Entries 94
Mean −0.2061
Std Dev 0.9784

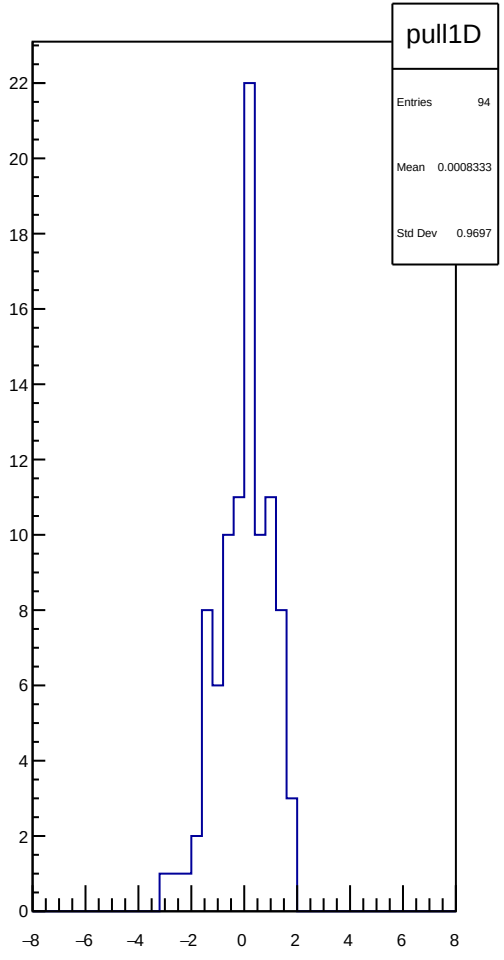

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.625e+05 / 93
p0 4.139e−11 ± 4.074e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

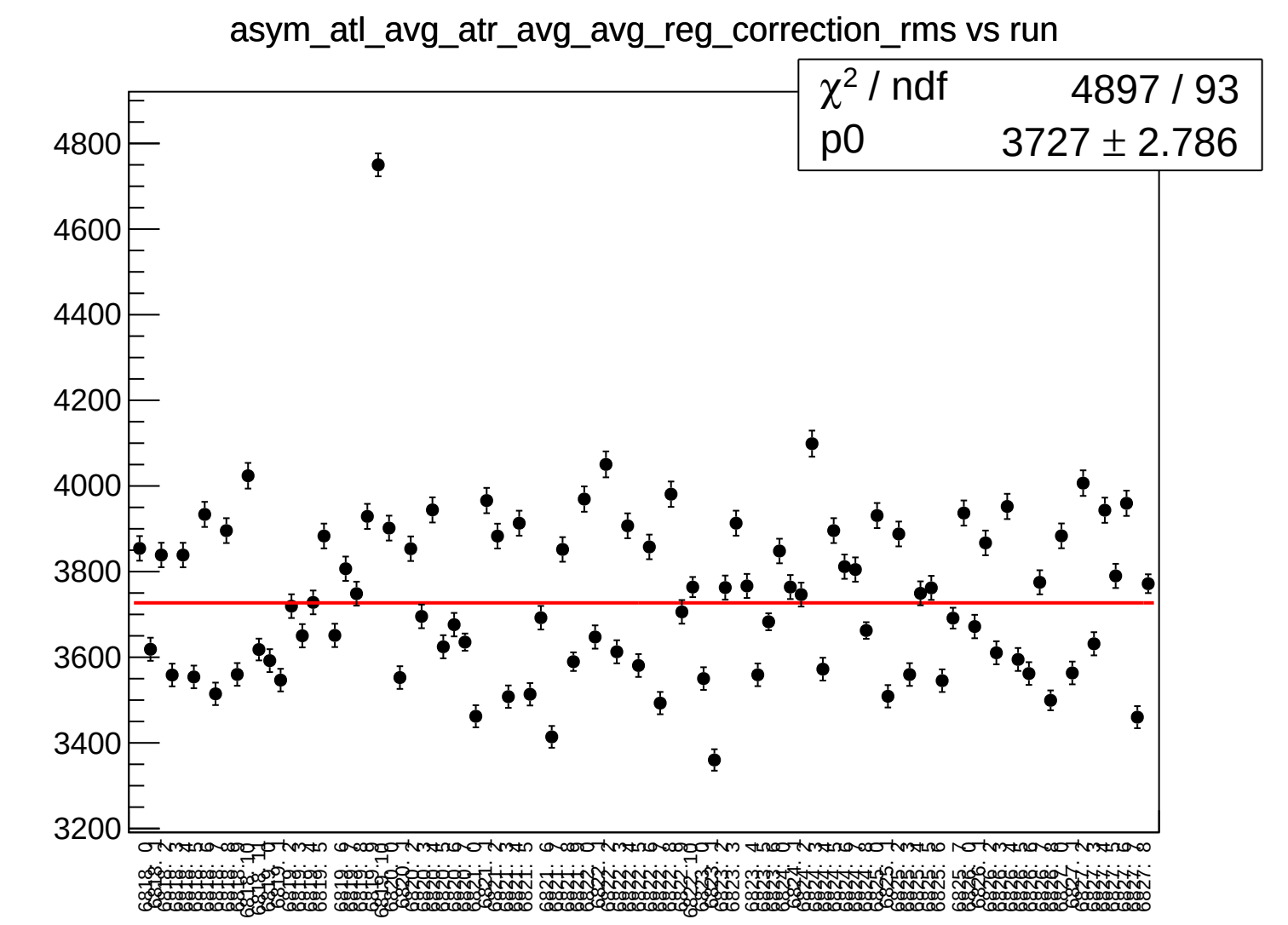

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.53 / 93
p0 −1318 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −914.5
Std Dev 0
2
1
0
−1

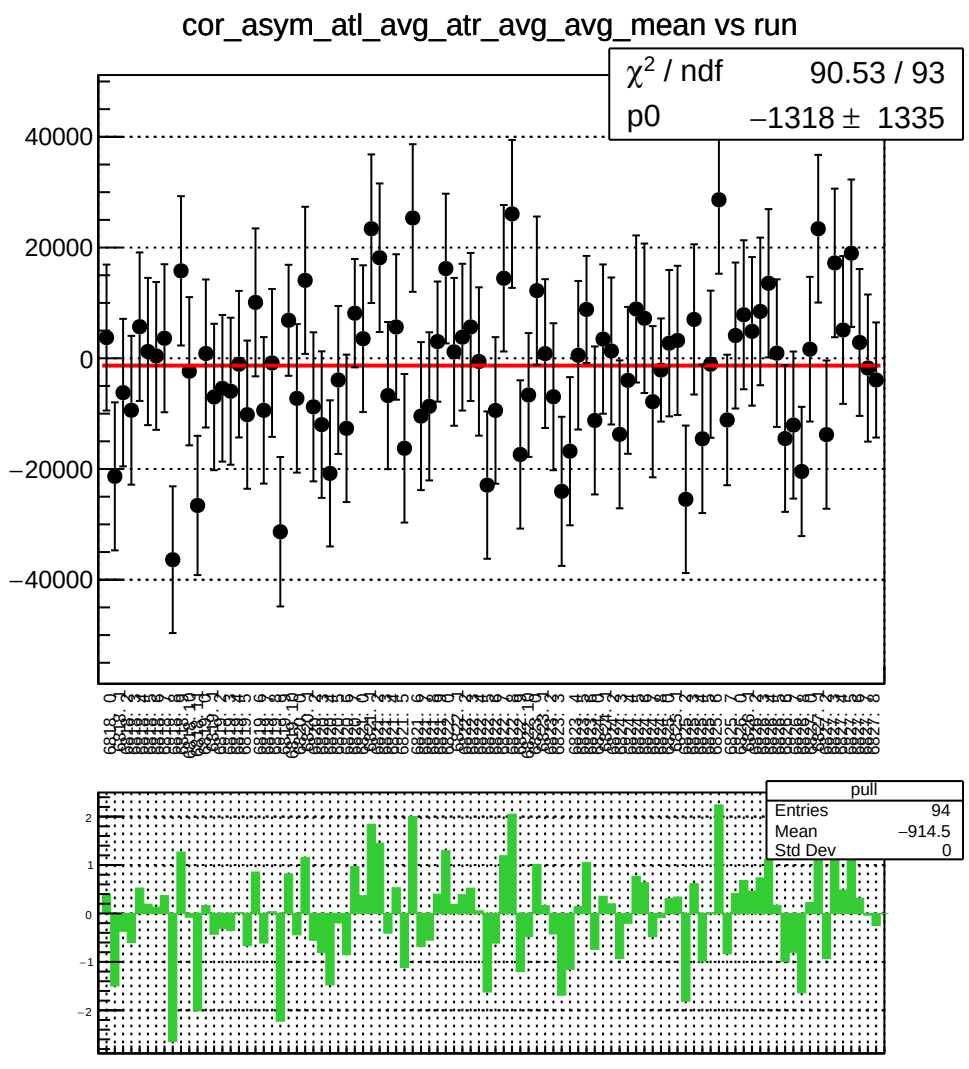

pull1D
Entries 94
Mean −0.004347
Std Dev 0.9814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

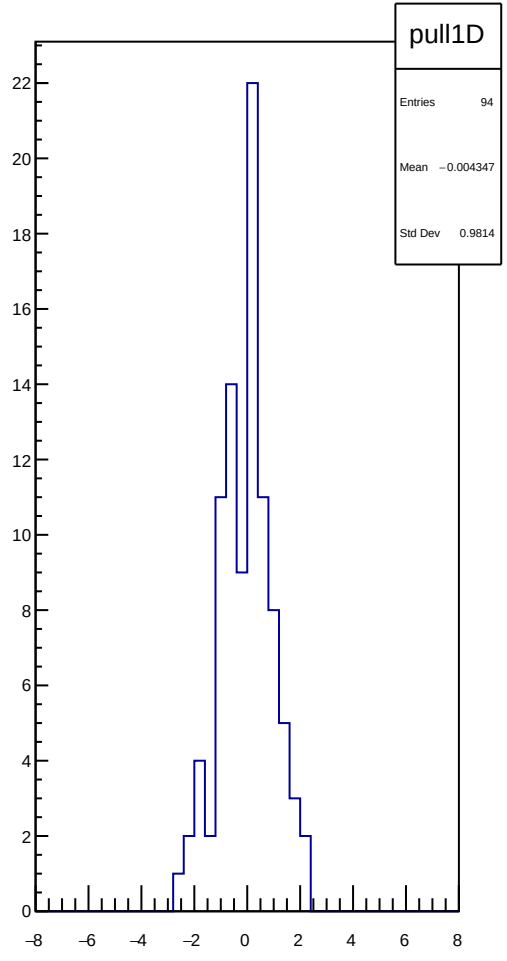

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 98.79 / 93
p0 1265 ± 0.9442
1310
1300
1290
1280
1270
1260
1250
1240
1230

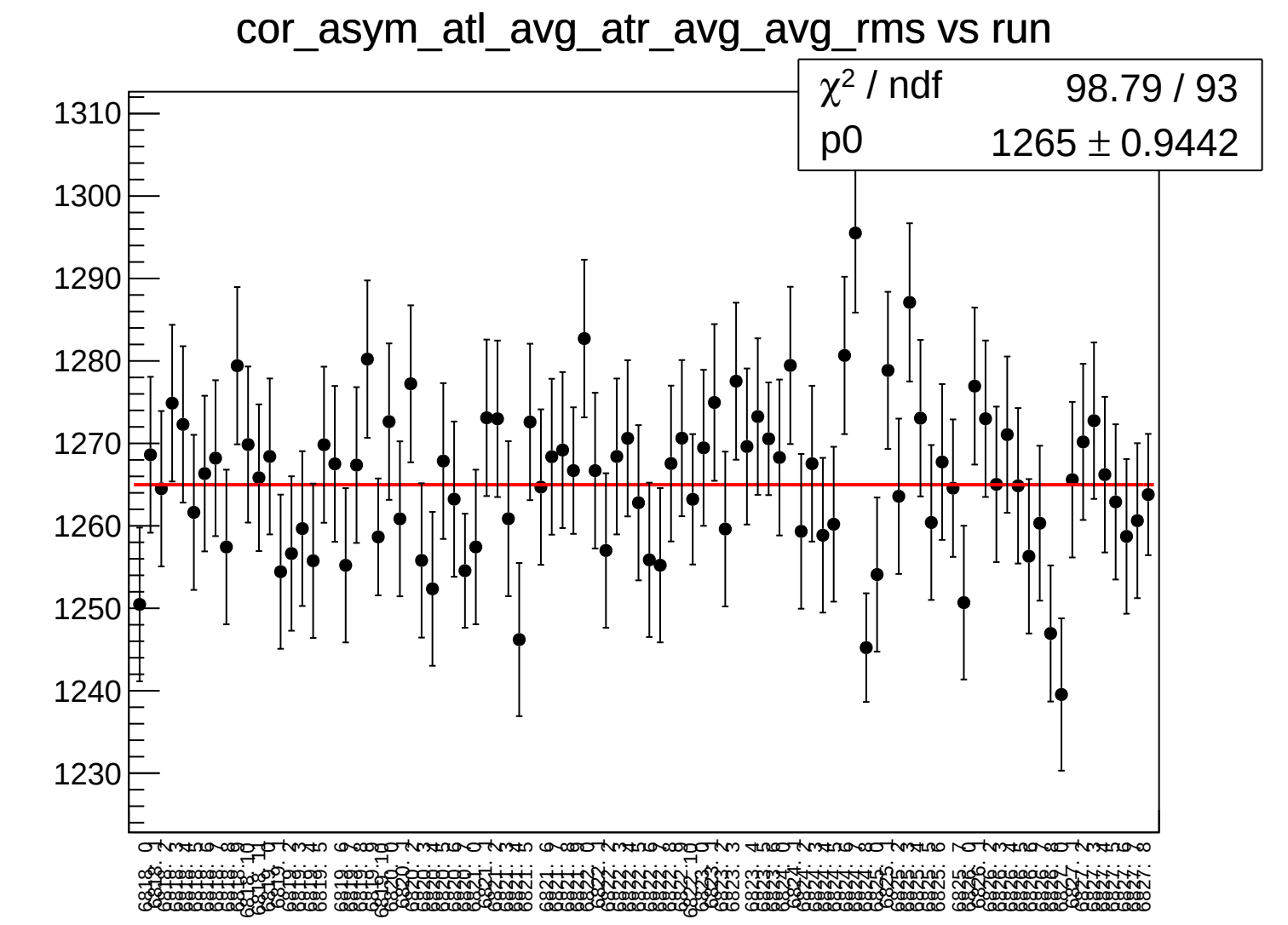

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.38 / 93
p0 1219 ± 3939
100
50
0
−50
−100
−150
pull
Entries 94
Mean 1412
Std Dev 0
2
1
0
−1
−2
−3

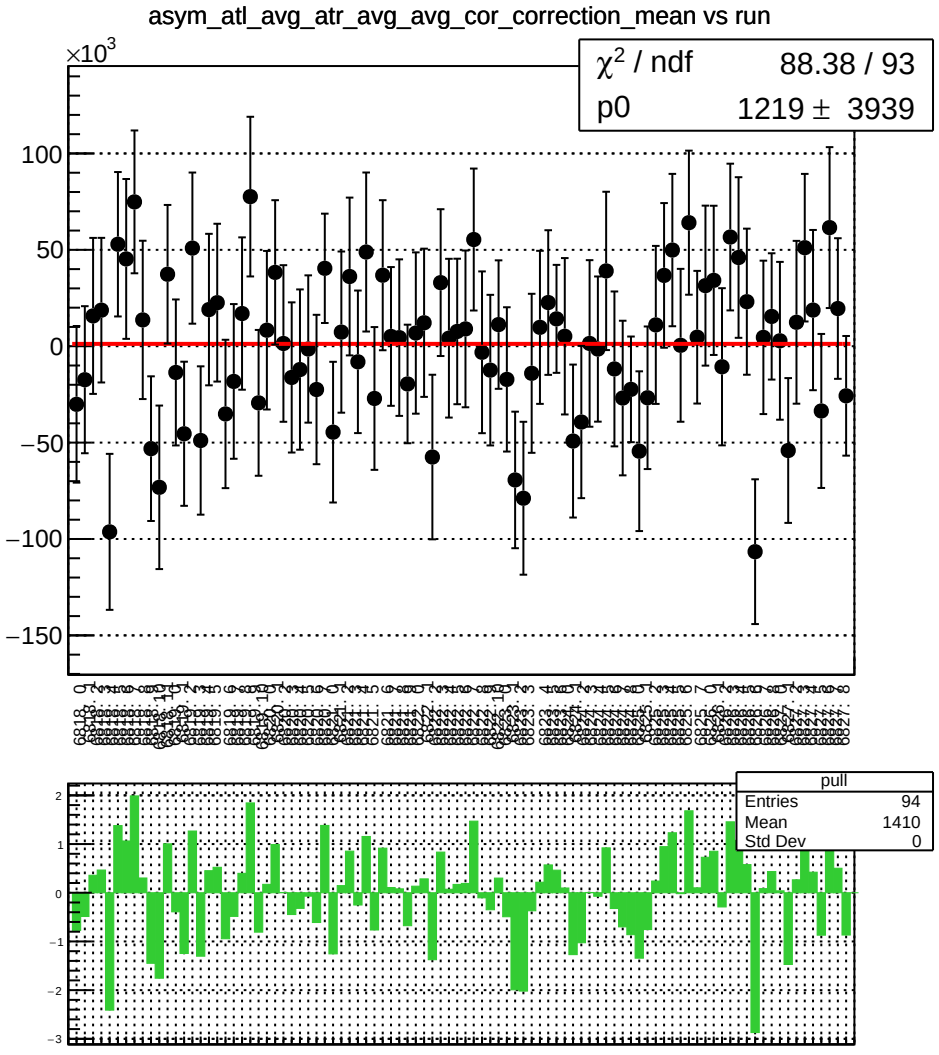

pull1D
Entries 94
Mean 0.0008333
Std Dev 0.9697
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

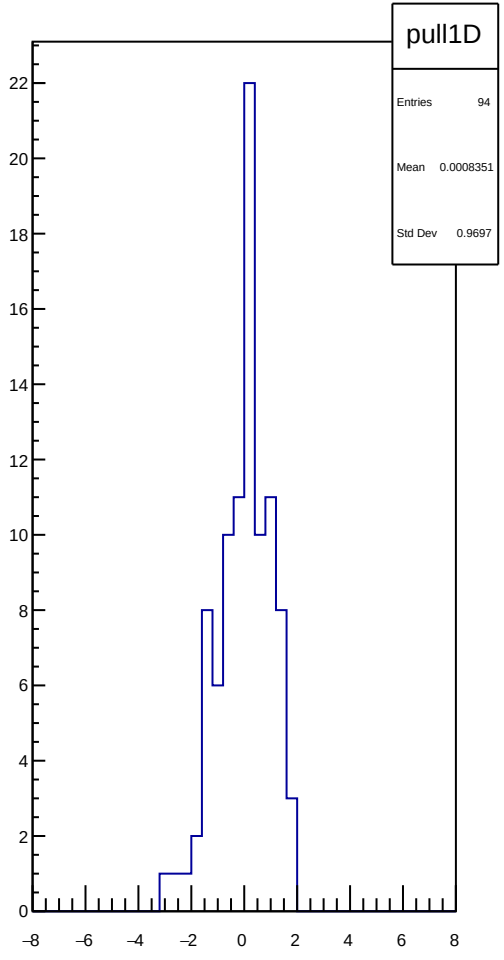

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4897 / 93
p0 3727 ± 2.786
4800
4600
4400
4200
4000
3800
3600
3400
3200

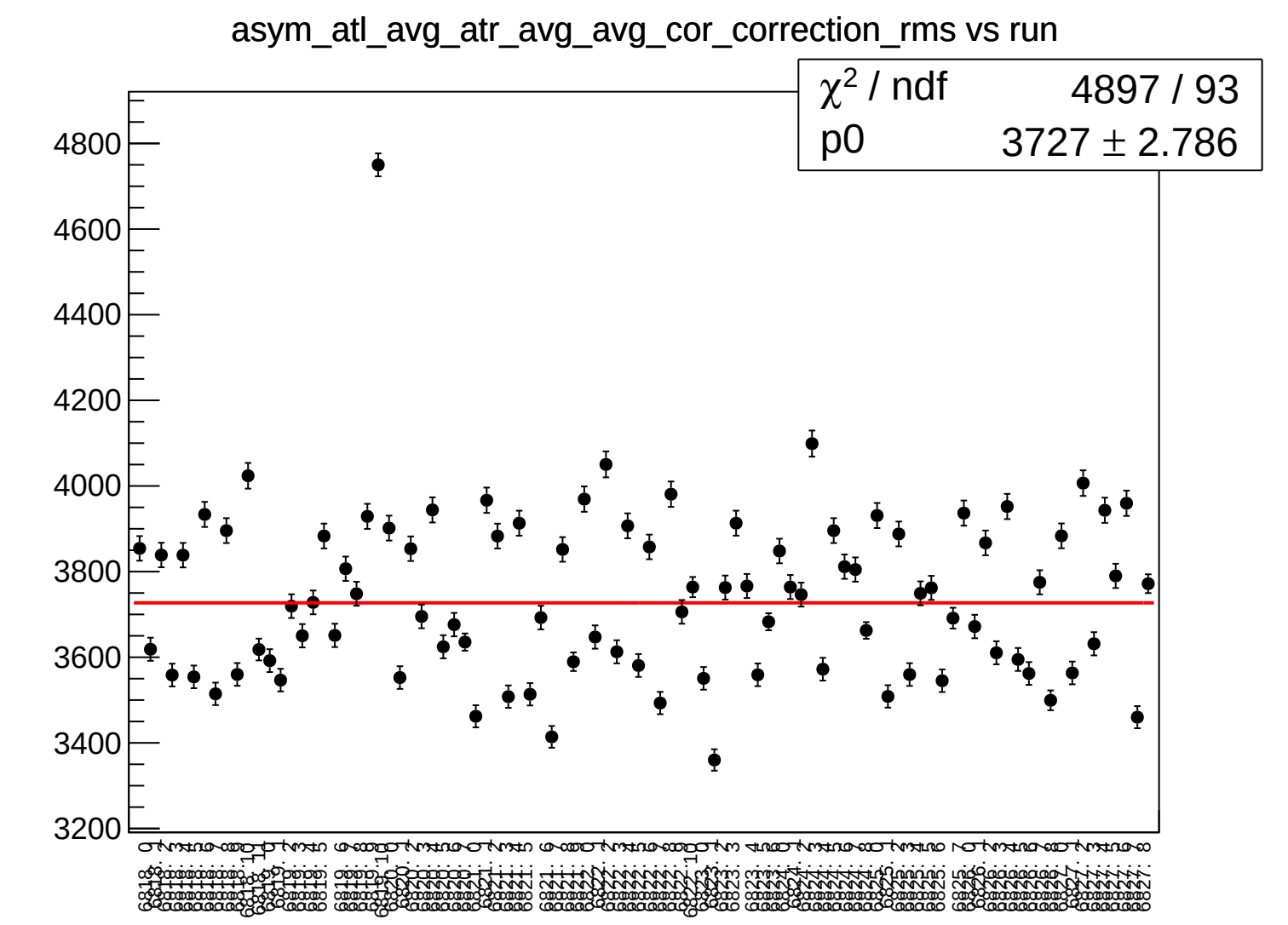

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.53 / 93
p0 −1318 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −914.5
Std Dev 0
2
1
0
−1
−2

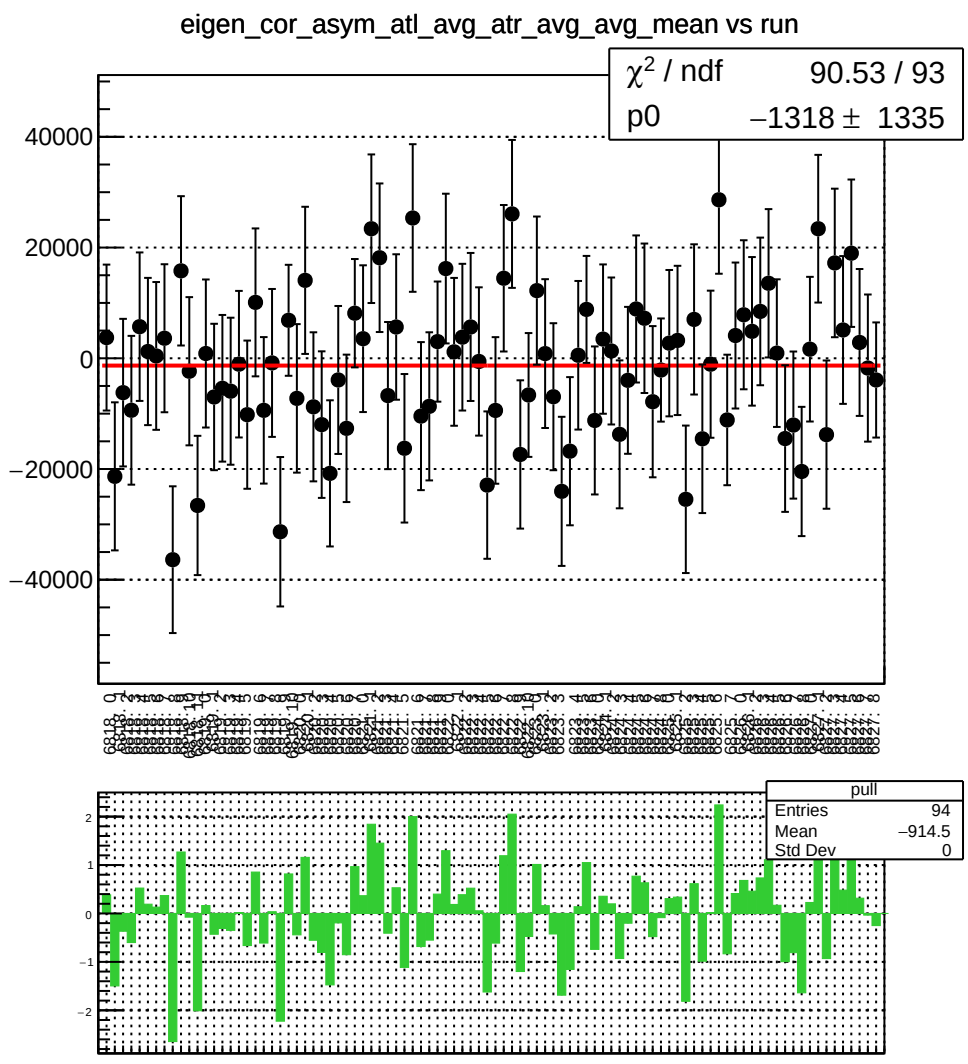

pull1D
Entries 94
Mean −0.004347
Std Dev 0.9814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

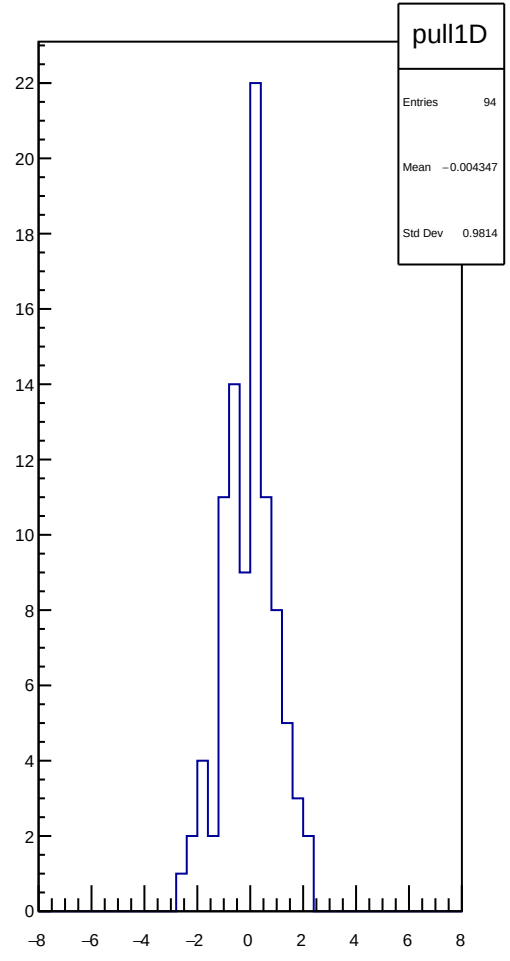

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 98.79 / 93
p0 1265 ± 0.9442
1310
1300
1290
1280
1270
1260
1250
1240
1230

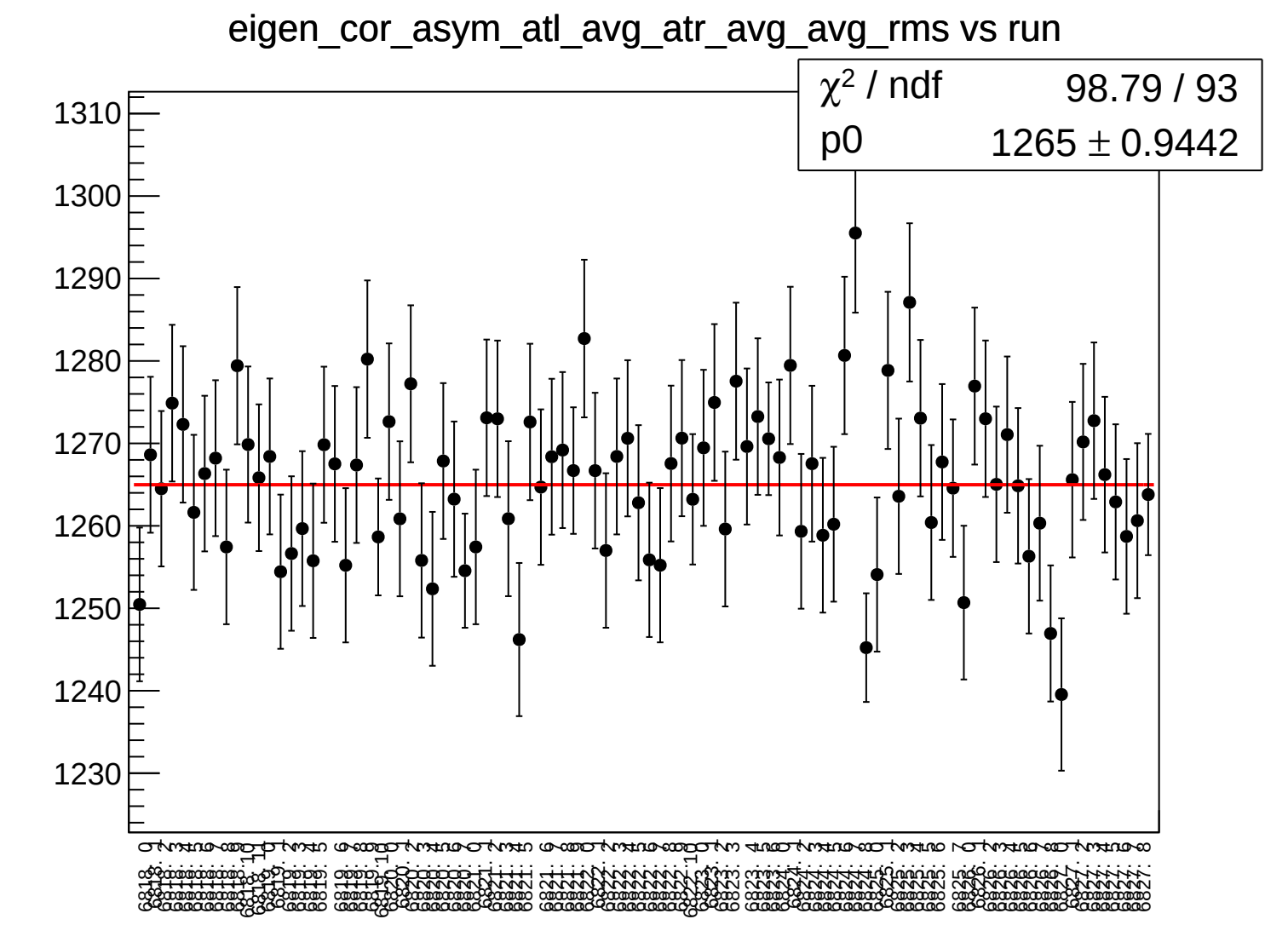

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.38 / 93
p0 1219 ± 3939
100
50
0
−50
−100
−150
pull
Entries 94
Mean 1410
Std Dev 0
2
1
0
−1
−2
−3

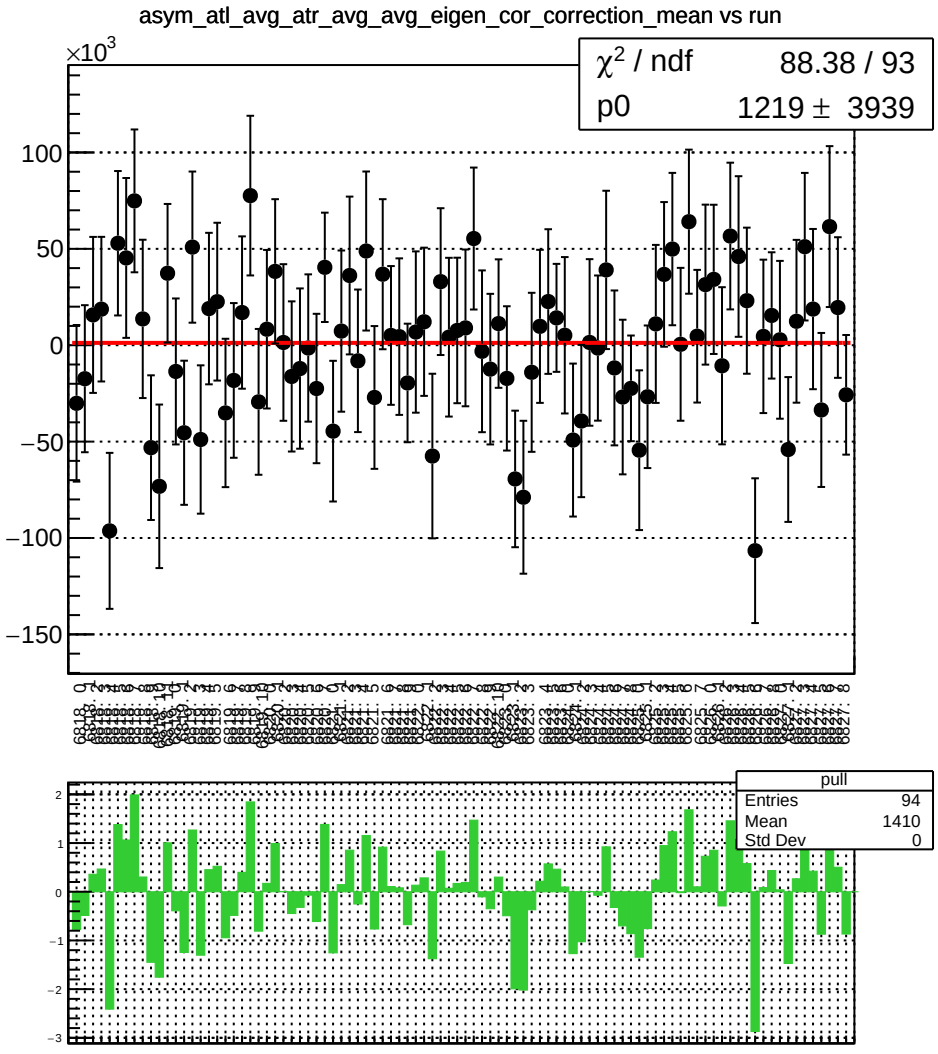

pull1D
Entries 94
Mean 0.0008351
Std Dev 0.9697
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

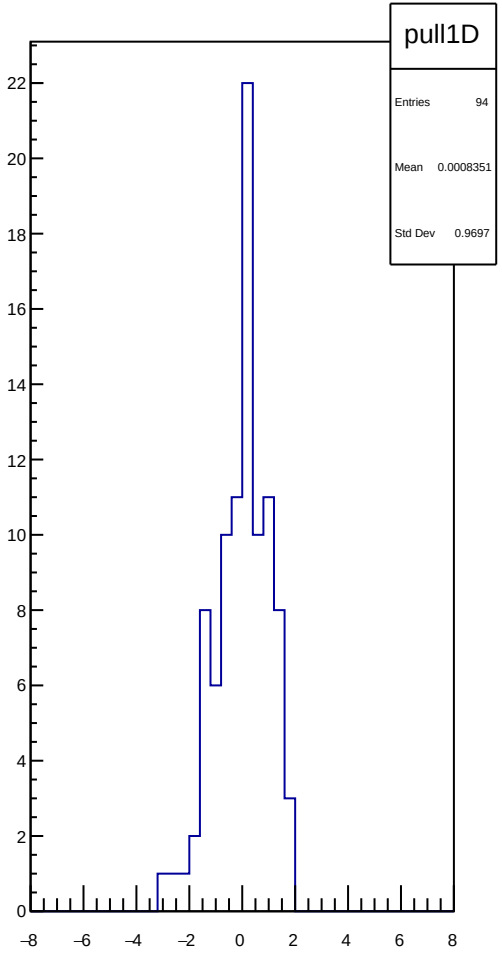

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4897 / 93
p0 3727 ± 2.786
4800
4600
4400
4200
4000
3800
3600
3400
3200

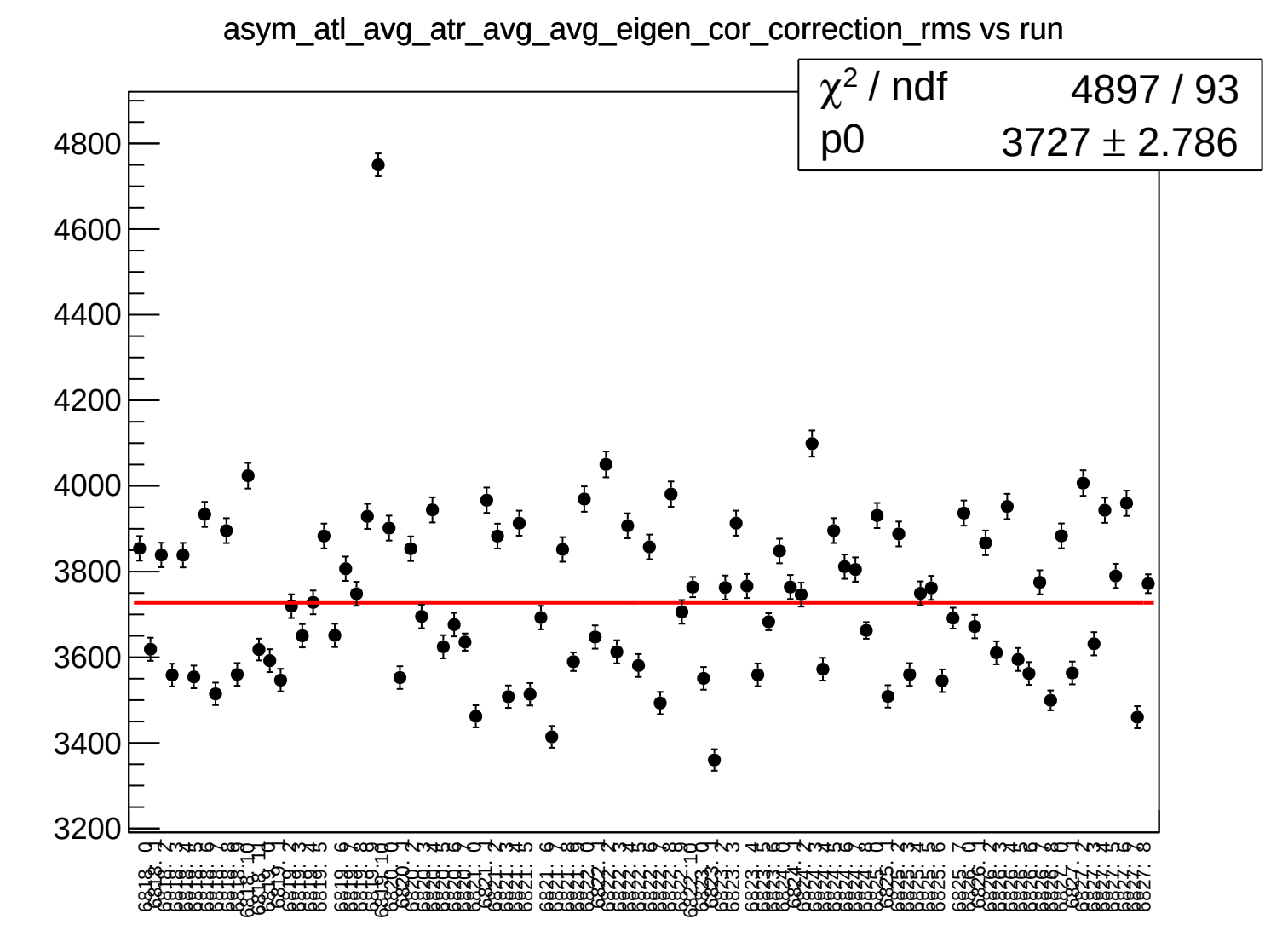

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 90.53 / 93
p0 −1318 ± 1335
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −914.5
Std Dev 0
2
1
0
−1
−2

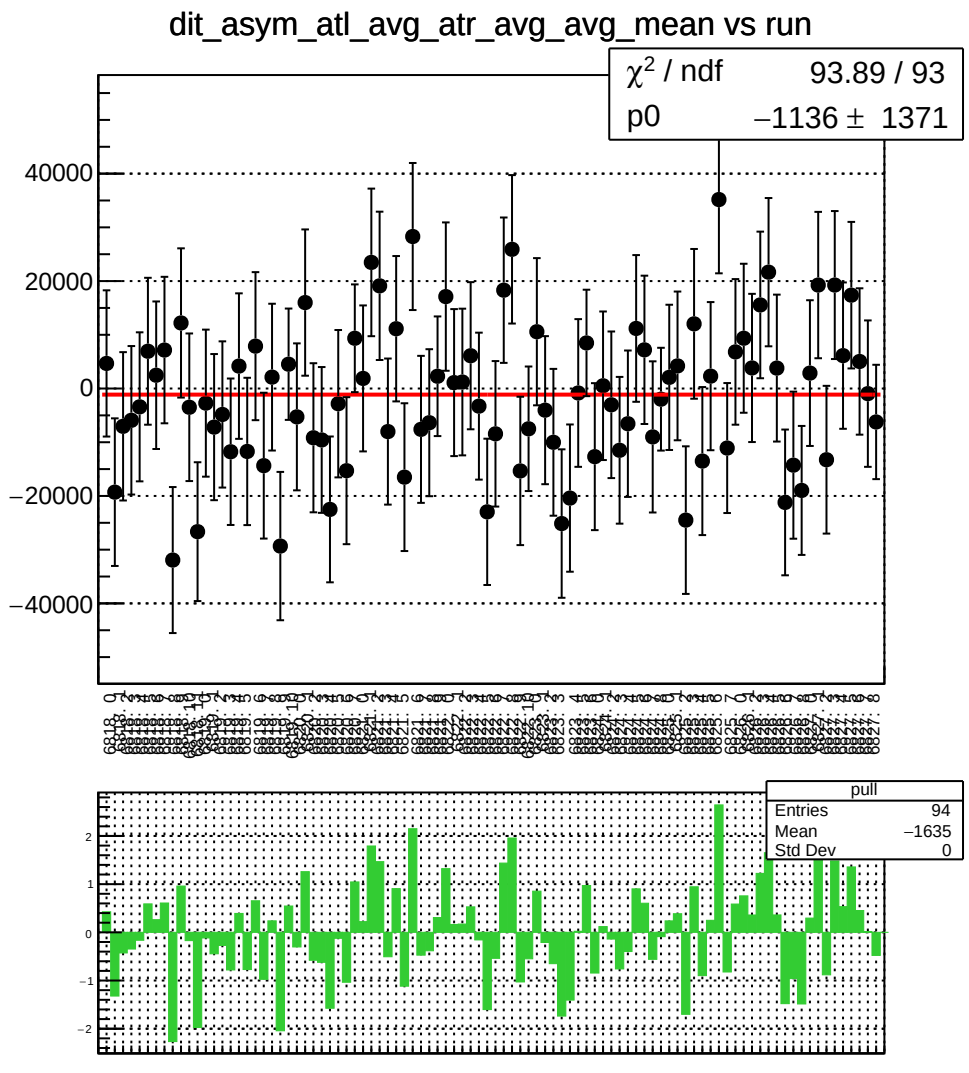

pull1D
Entries 94
Mean −0.004347
Std Dev 0.9814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

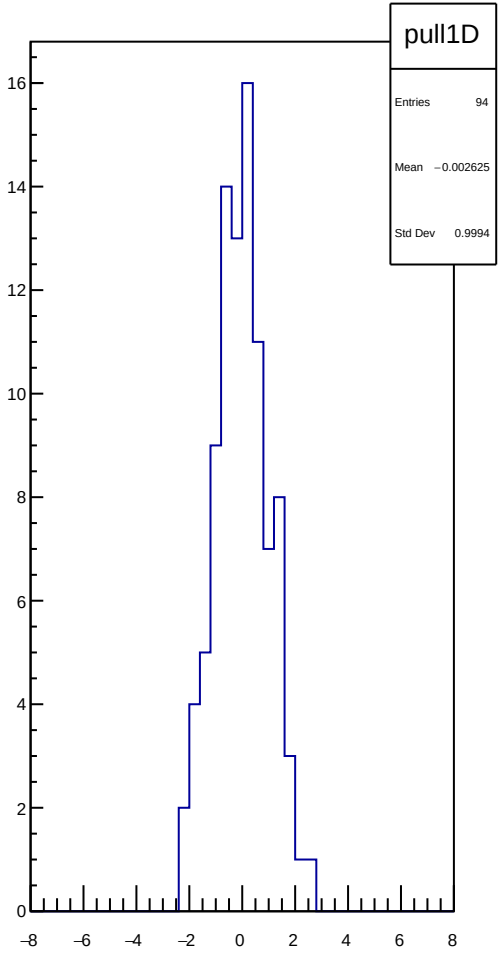

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 98.79 / 93
p0 1265 ± 0.9442
1310
1300
1290
1280
1270
1260
1250
1240
1230

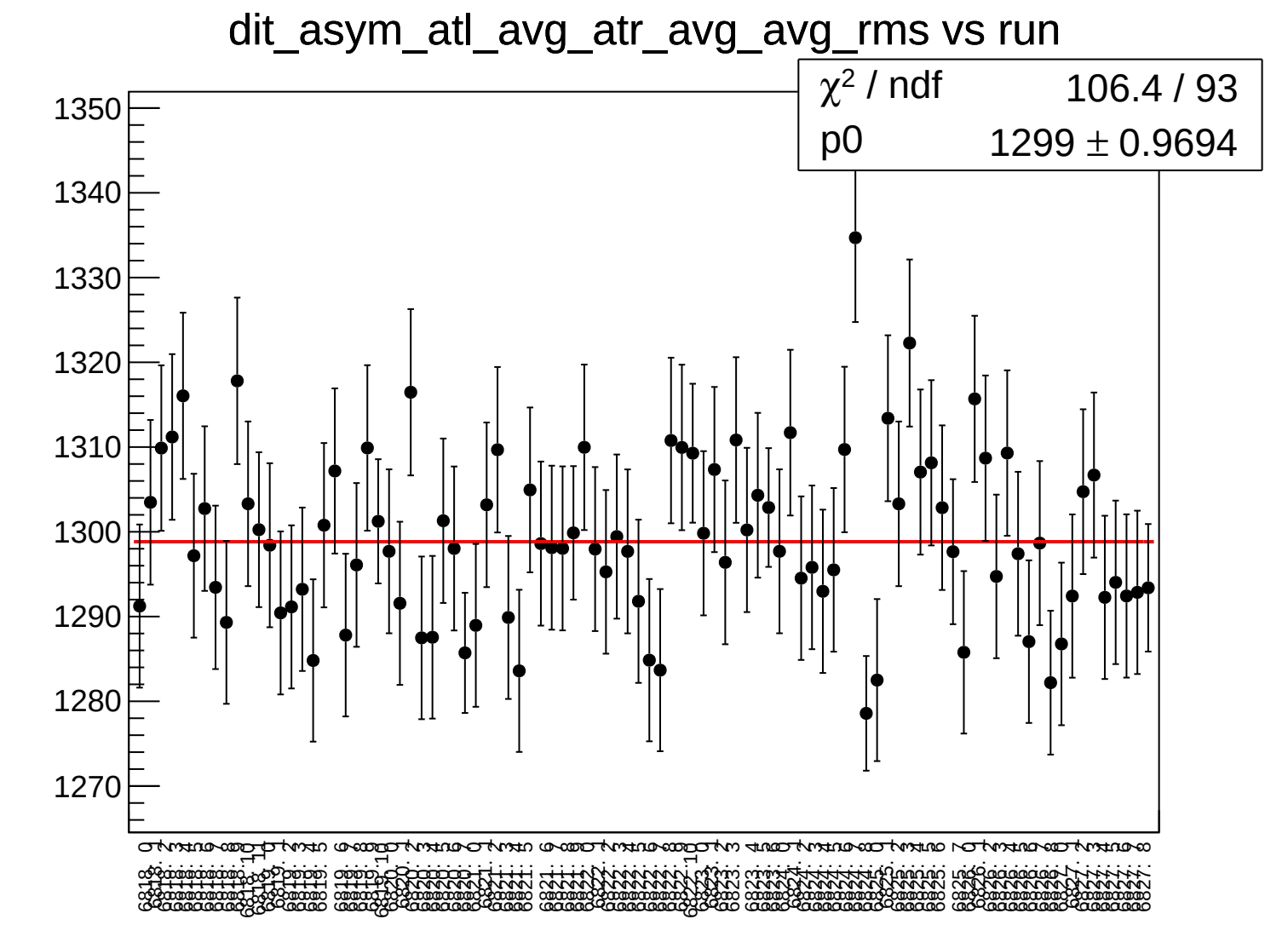

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.38 / 93
p0 1219 ± 3939
100
50
0
−50
−100
−150
pull
Entries 94
Mean 1410
Std Dev 0
2
1
0
−1
−2
−3

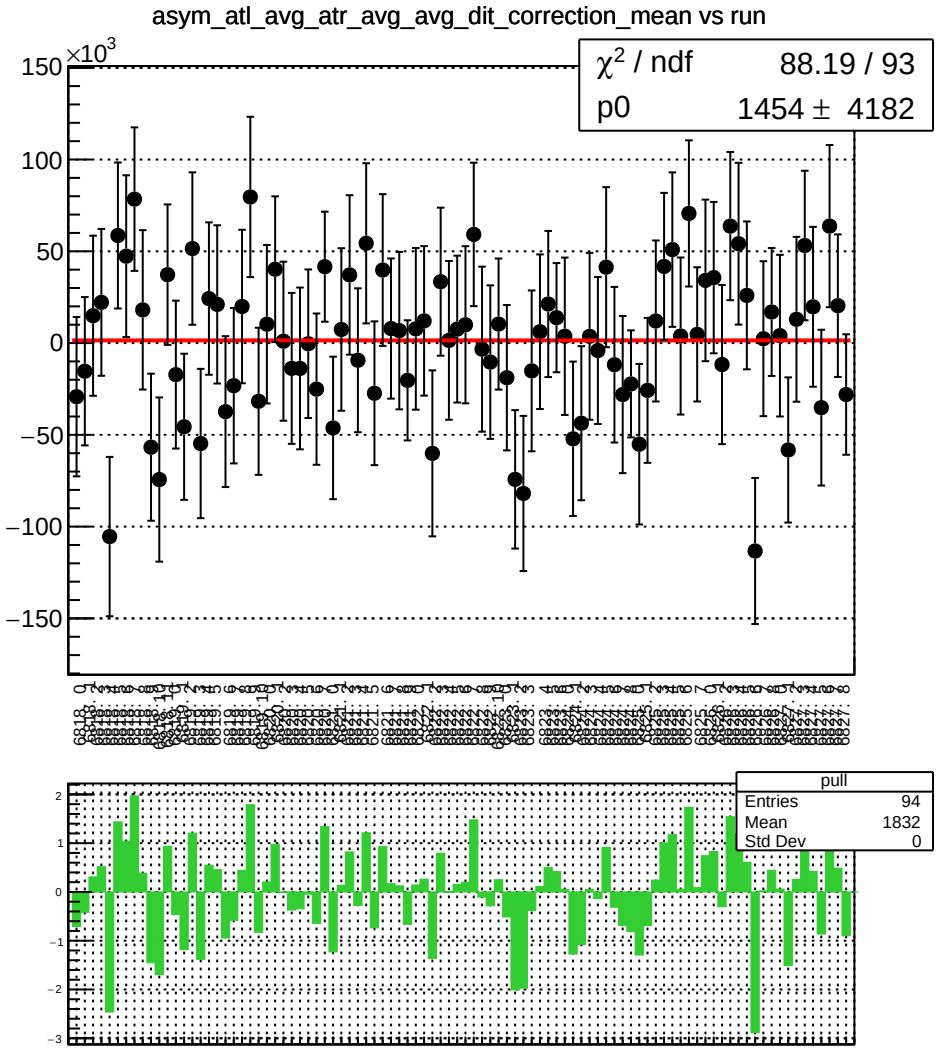

pull1D
Entries 94
Mean 0.0008351
Std Dev 0.9697
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

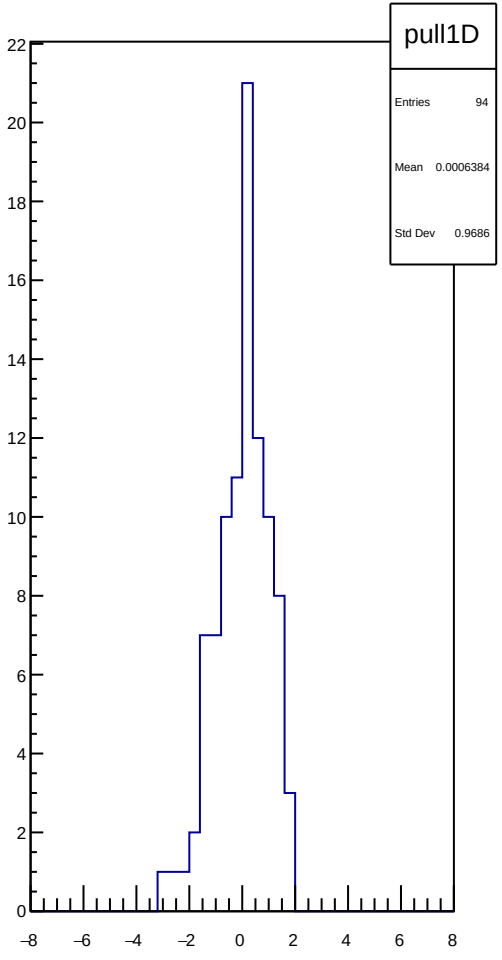

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4897 / 93
p0 3727 ± 2.786
4800
4600
4400
4200
4000
3800
3600
3400
3200

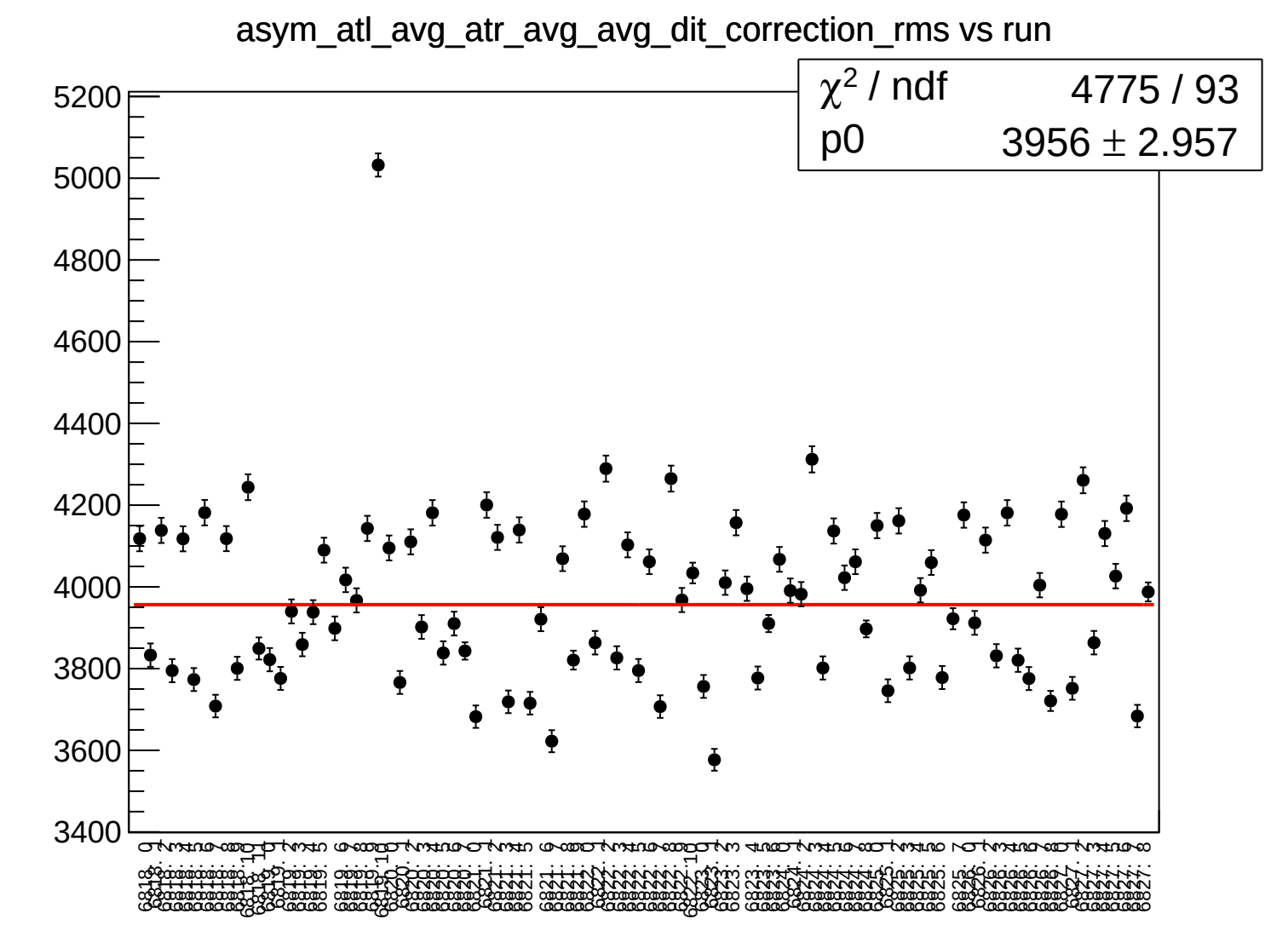

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.89 / 93
p0 −1136 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1635
Std Dev 0
2
1
0
−1
−2

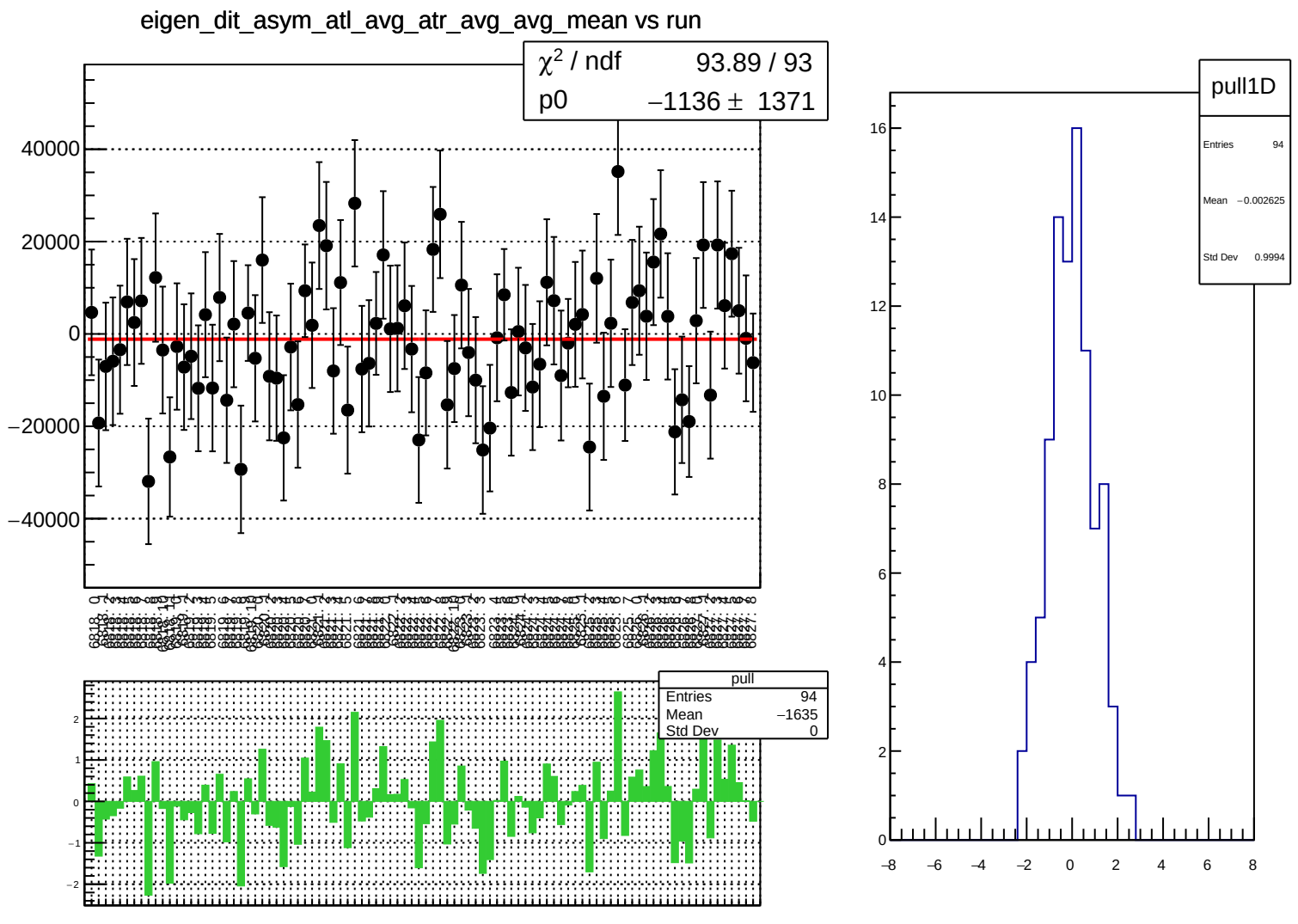

pull1D
Entries 94
Mean −0.002625
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

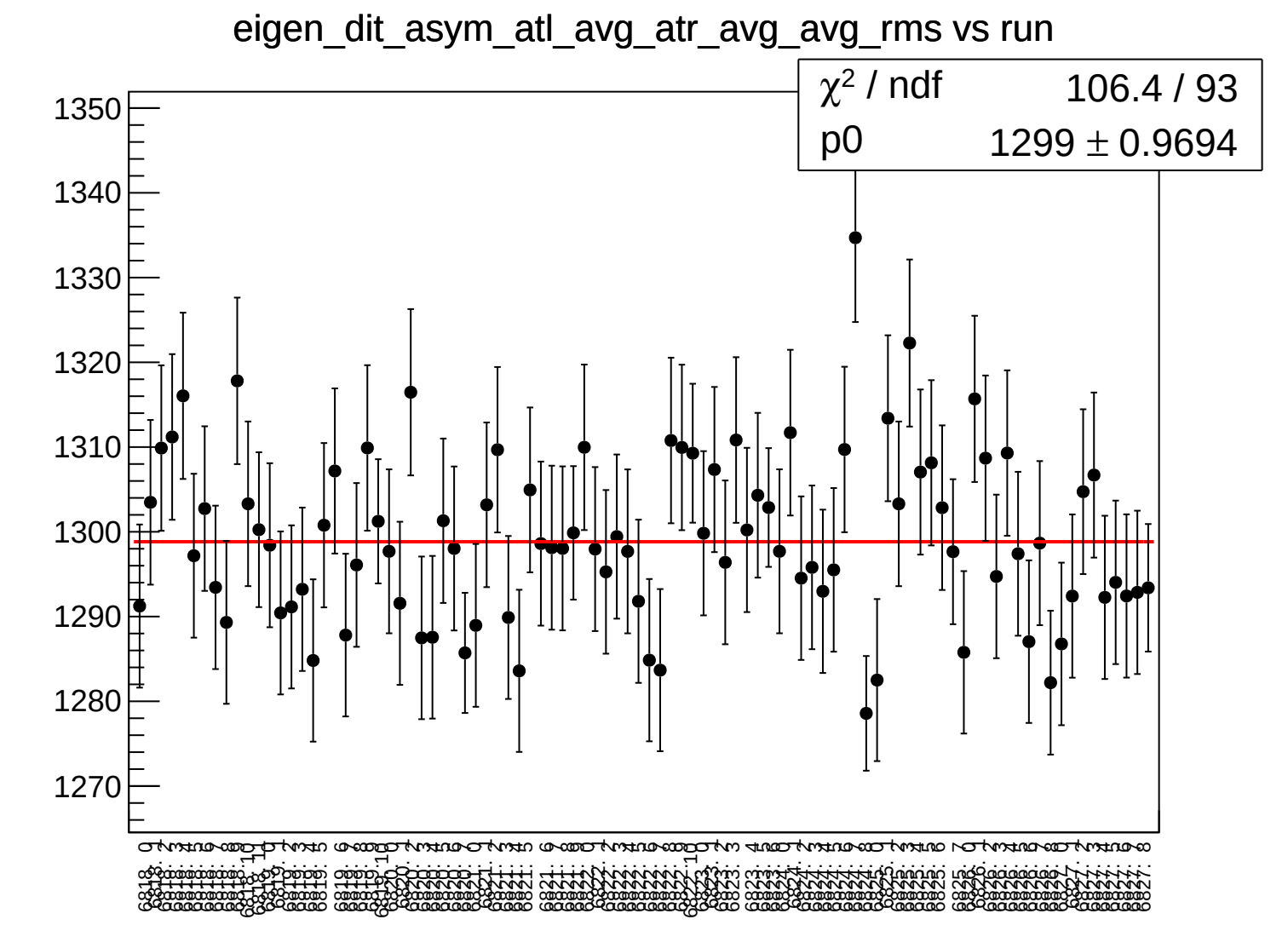

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 106.4 / 93
p0 1299 ± 0.9694
1350
1340
1330
1320
1310
1300
1290
1280
1270

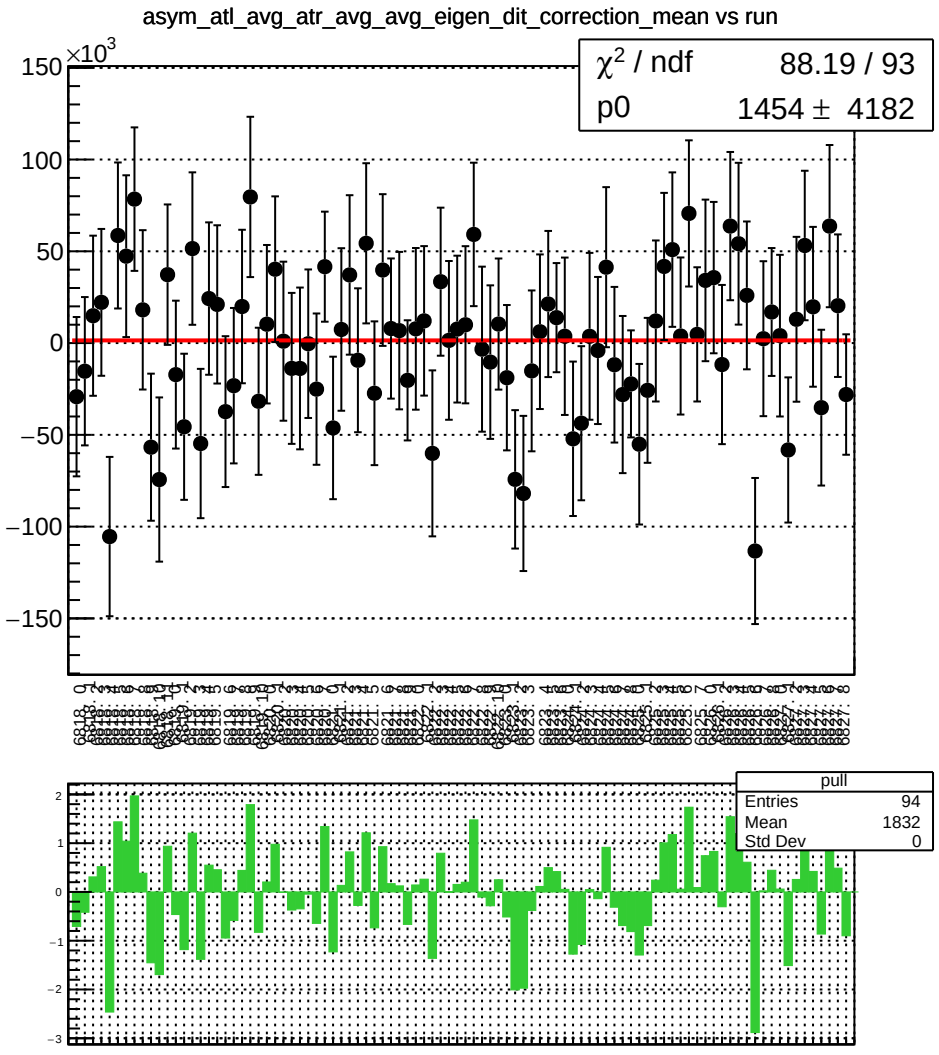

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
150
100
50
0
−50
−100
−150
χ² / ndf 88.19 / 93
p0 1454 ± 4182
pull
Entries 94
Mean 1832
Std Dev 0
2
1
0
−1
−2
−3

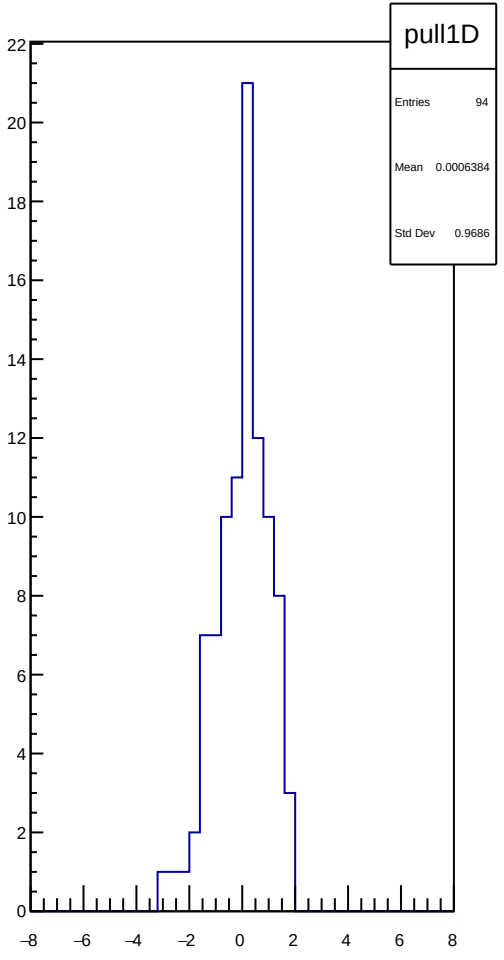

pull1D
Entries 94
Mean 0.0006384
Std Dev 0.9686
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

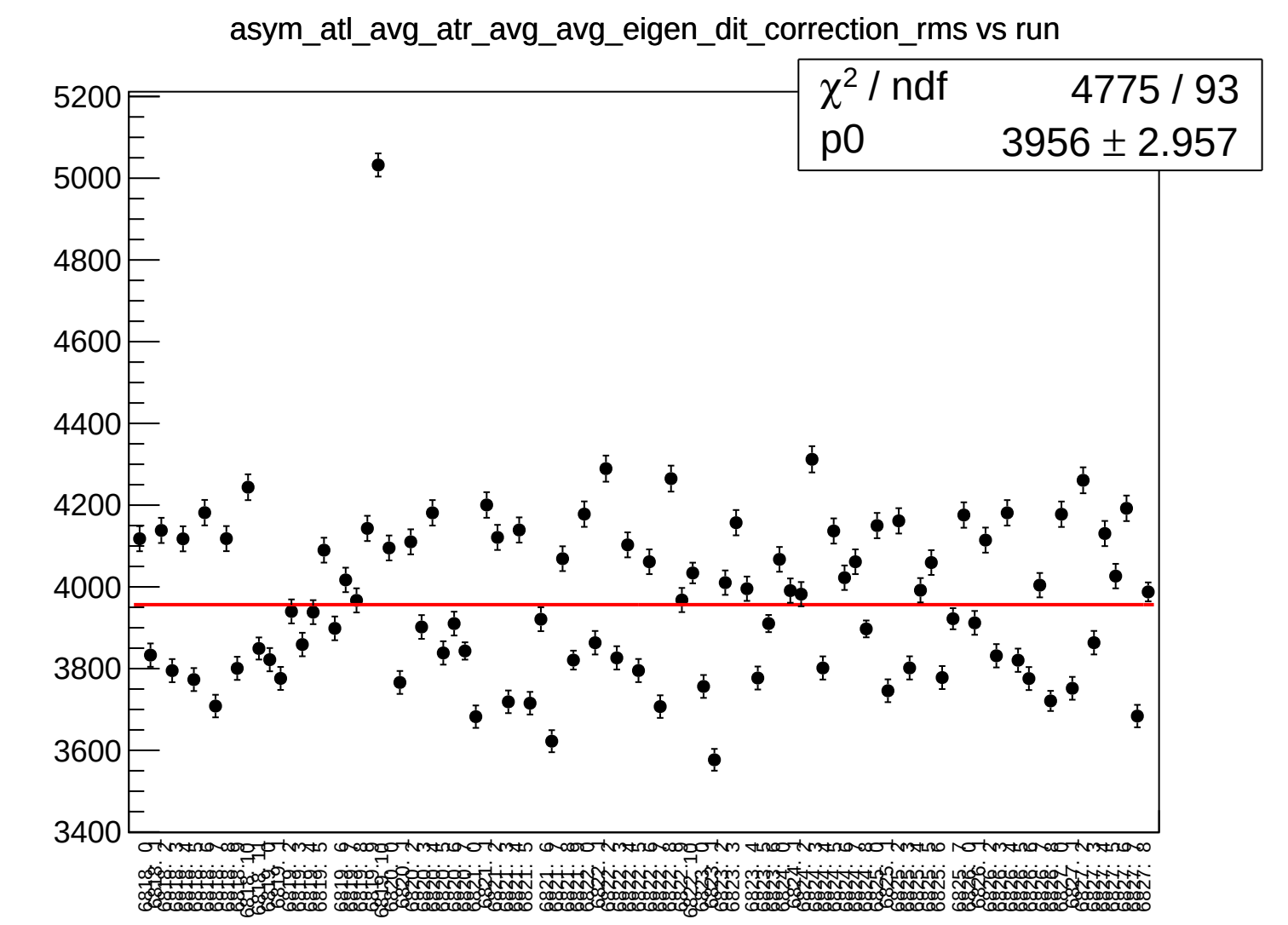

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 4775 / 93
p0 3956 ± 2.957
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

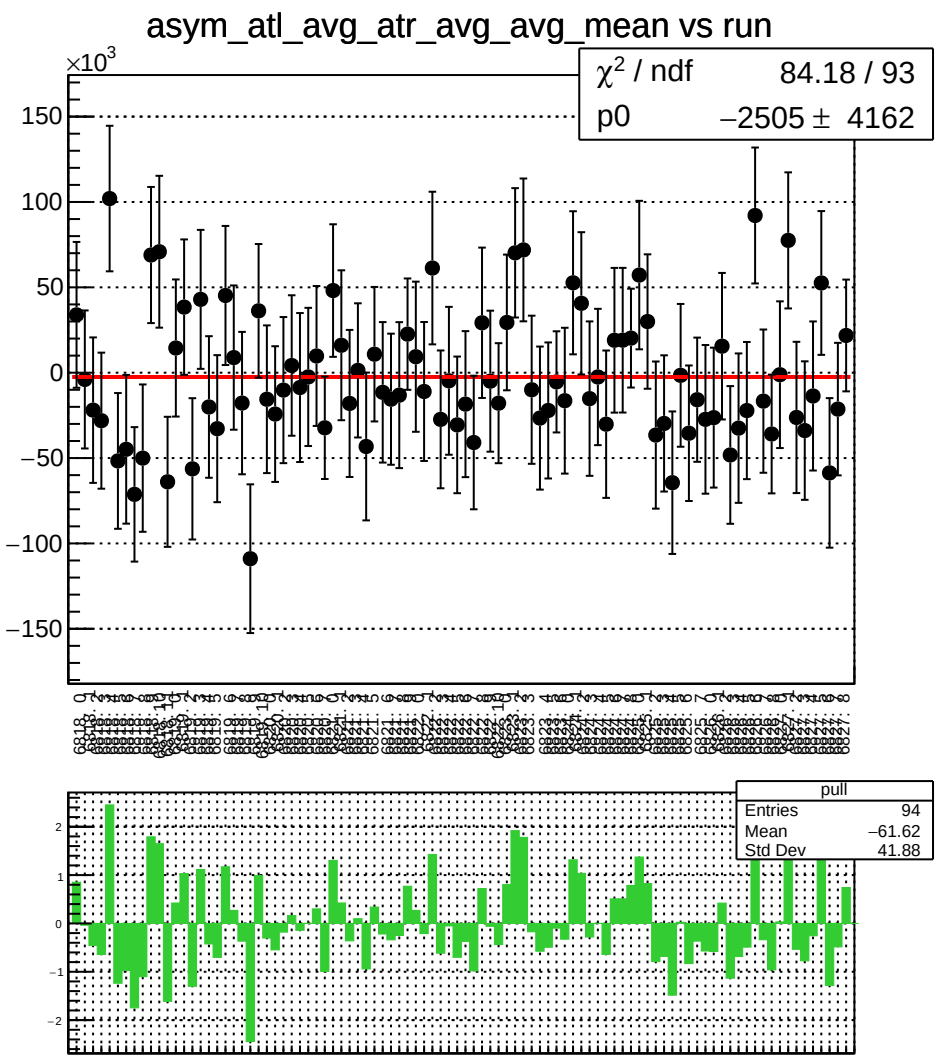

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 93.89 / 93
p0 −1136 ± 1371
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1635
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002625
Std Dev 0.9994
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

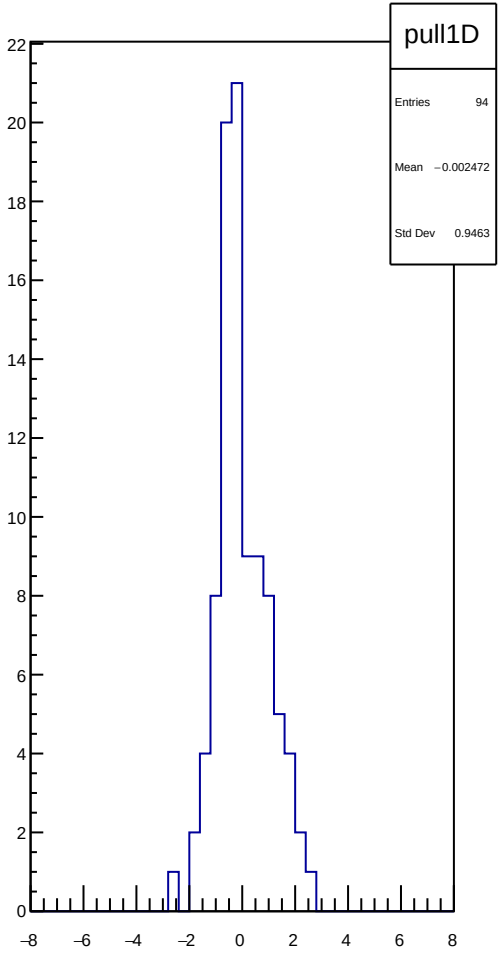

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 106.4 / 93
p0 1299 ± 0.9694
1350
1340
1330
1320
1310
1300
1290
1280
1270

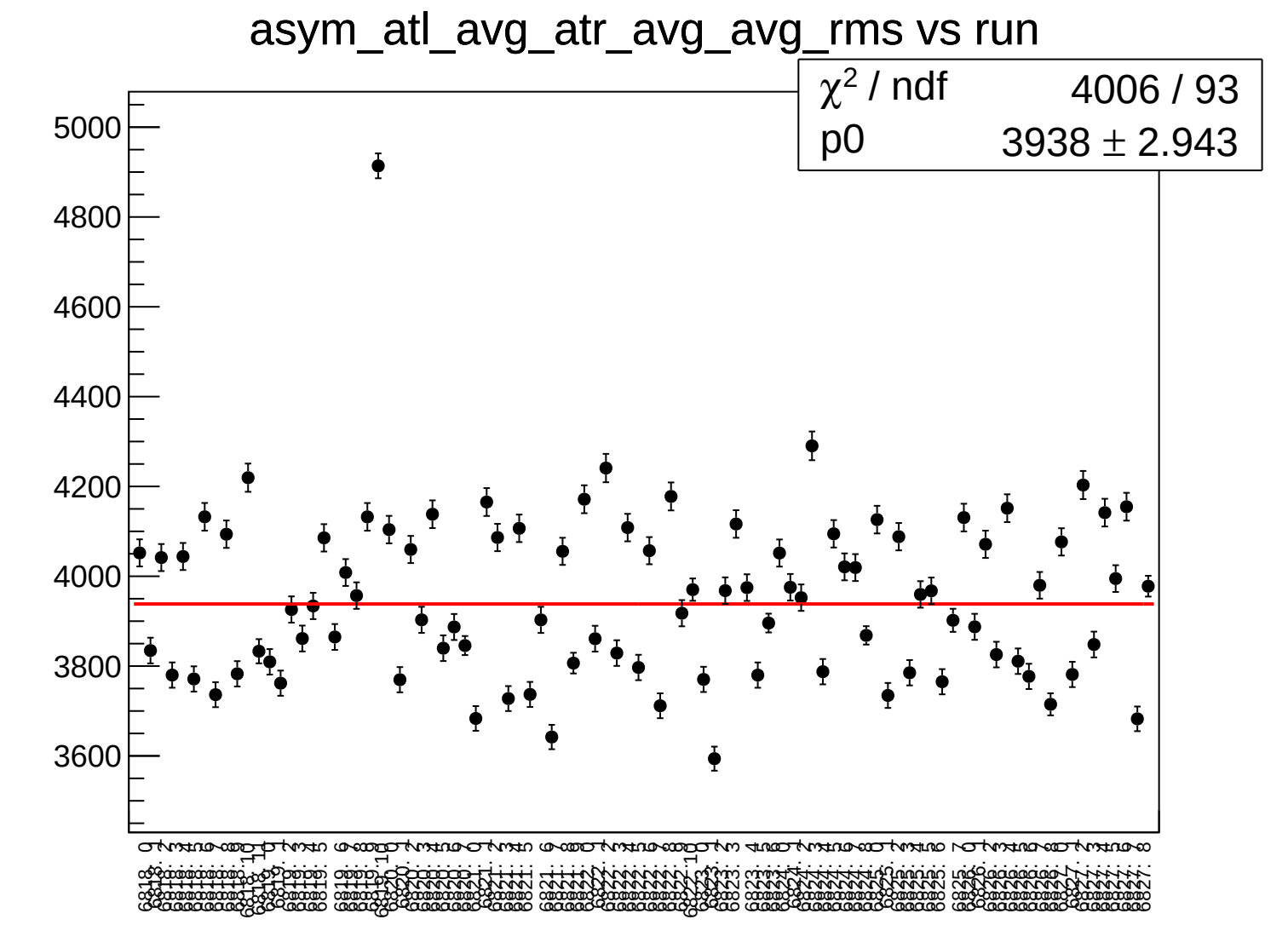

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.19 / 93
p0 1454 ± 4182
pull
Entries 94
Mean 1832
Std Dev 0

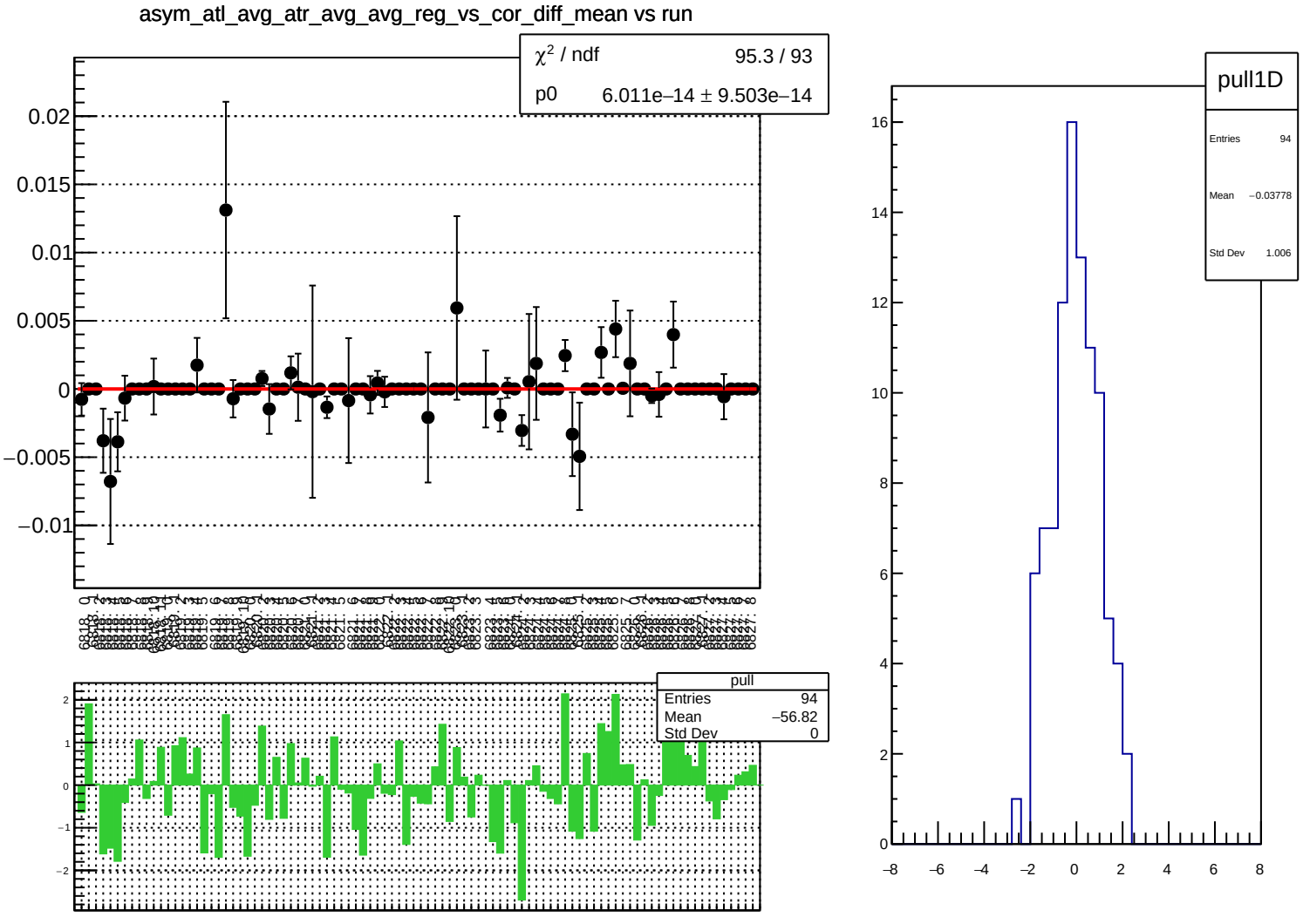

pull1D
Entries 94
Mean 0.0006384
Std Dev 0.9686

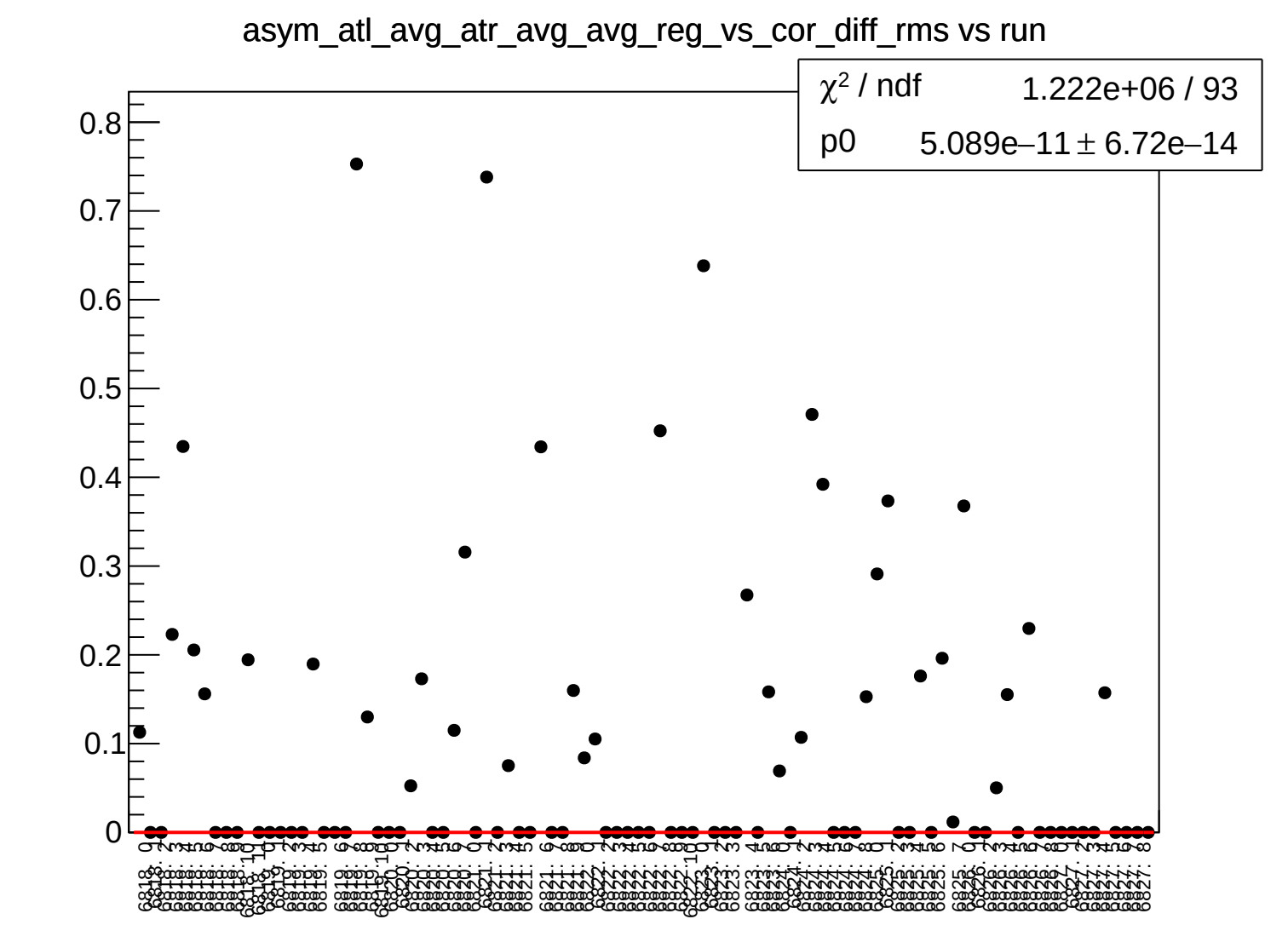

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4775 / 93
p0 3956 ± 2.957
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

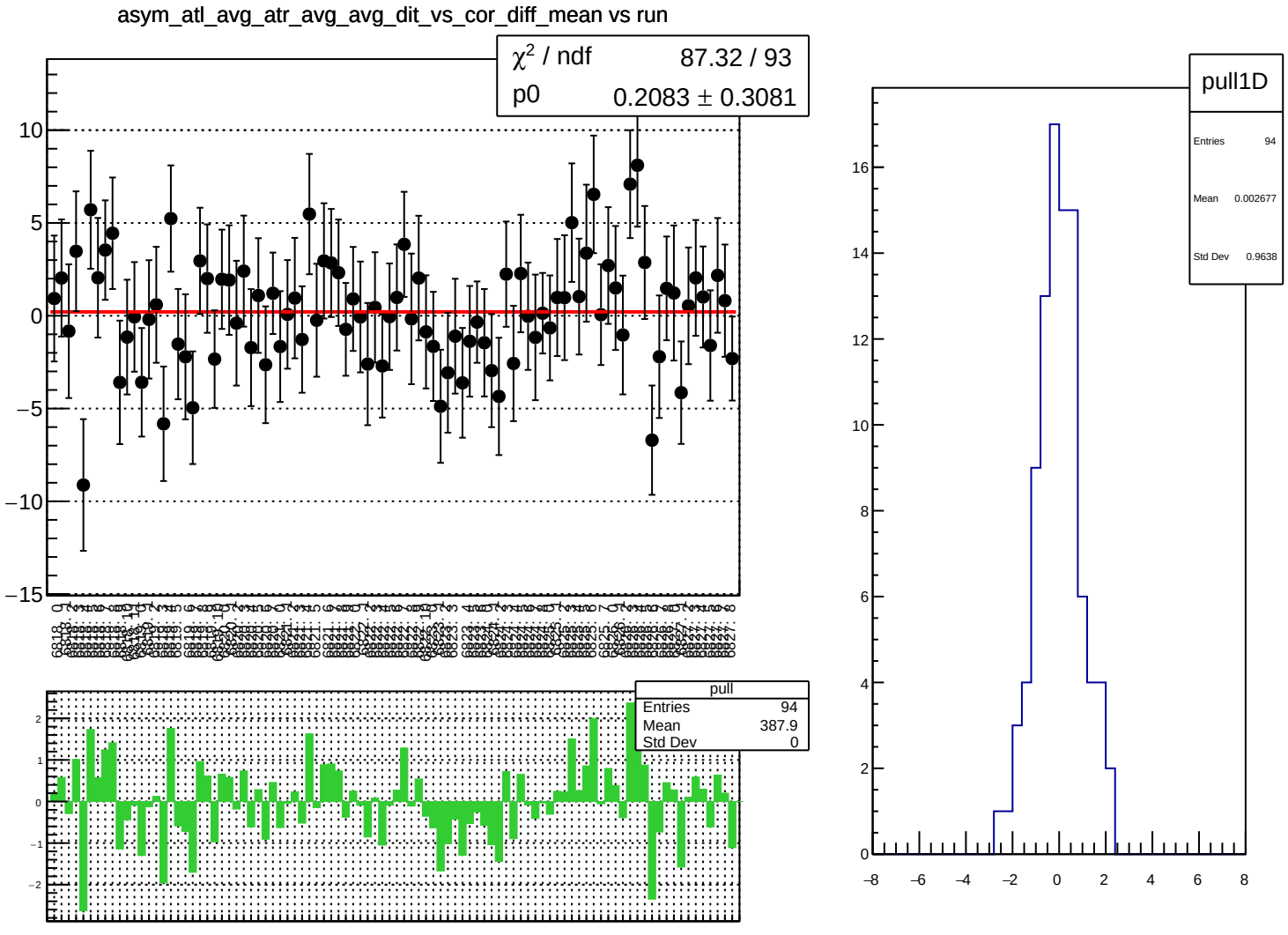

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 84.18 / 93
p0 −2505 ± 4162
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −61.62
Std Dev 41.88
2
1
0
−1
−2

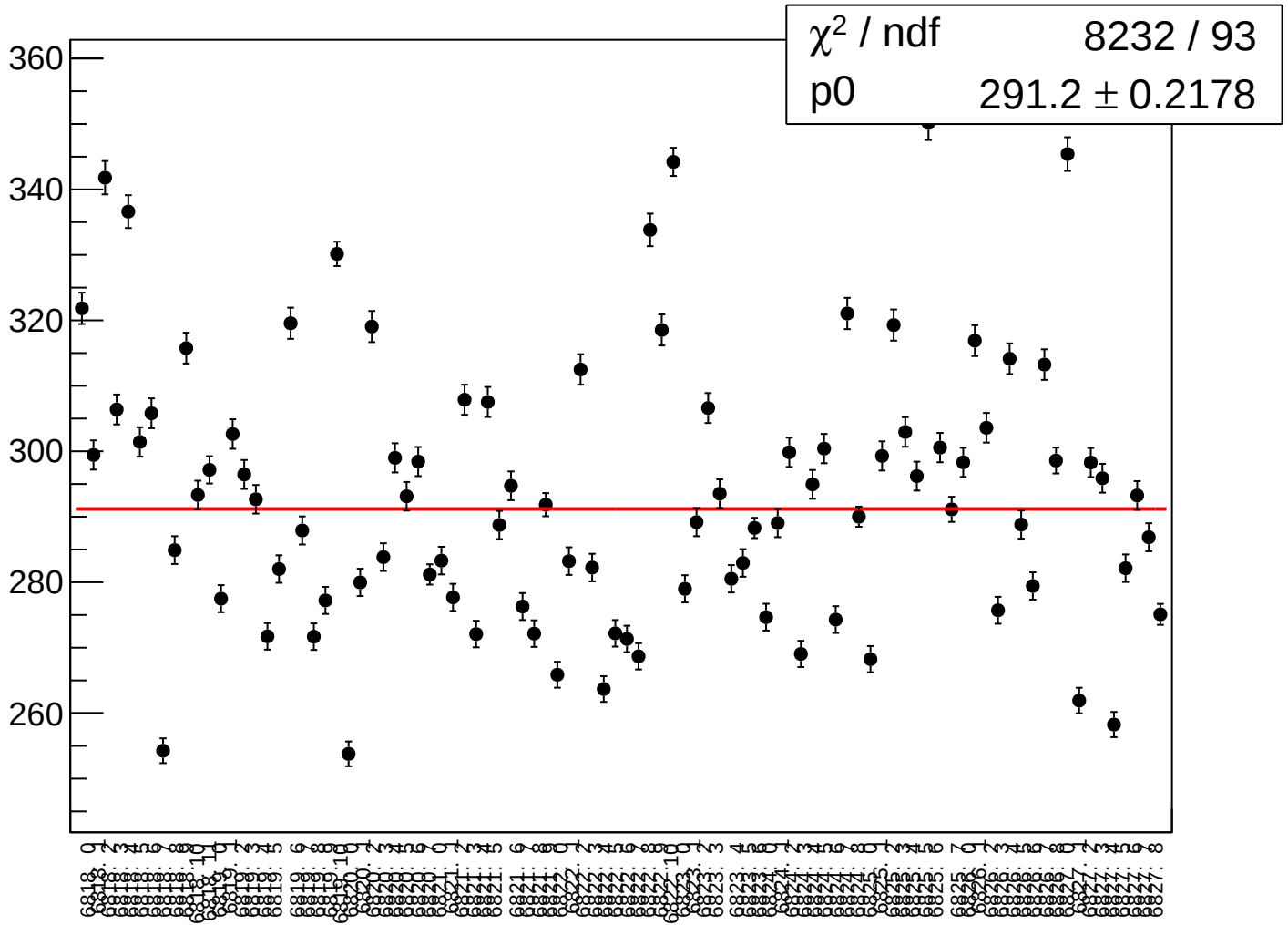

pull1D
Entries 94
Mean −0.002472
Std Dev 0.9463
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

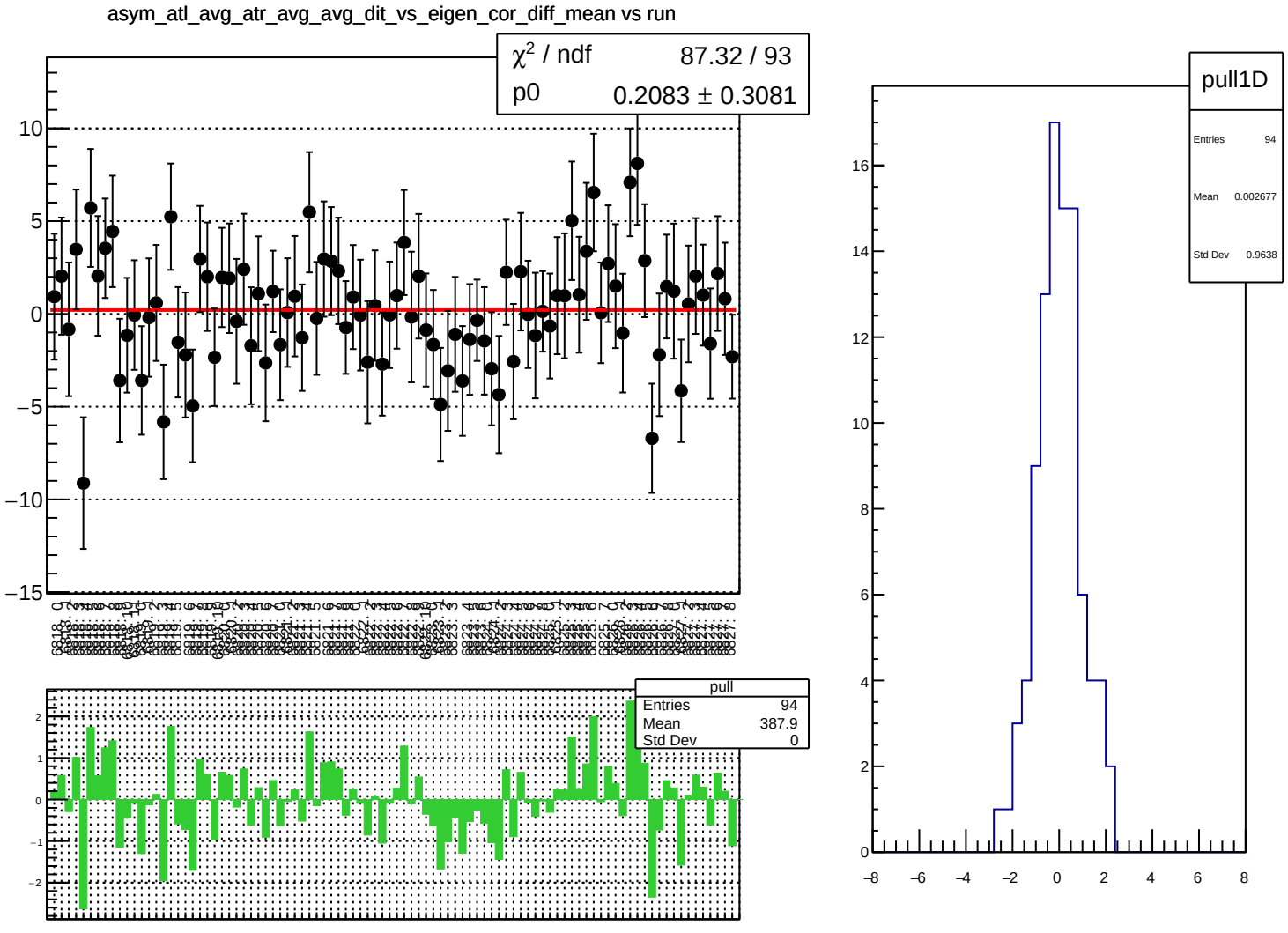

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 4006 / 93
p0 3938 ± 2.943
5000
4800
4600
4400
4200
4000
3800
3600

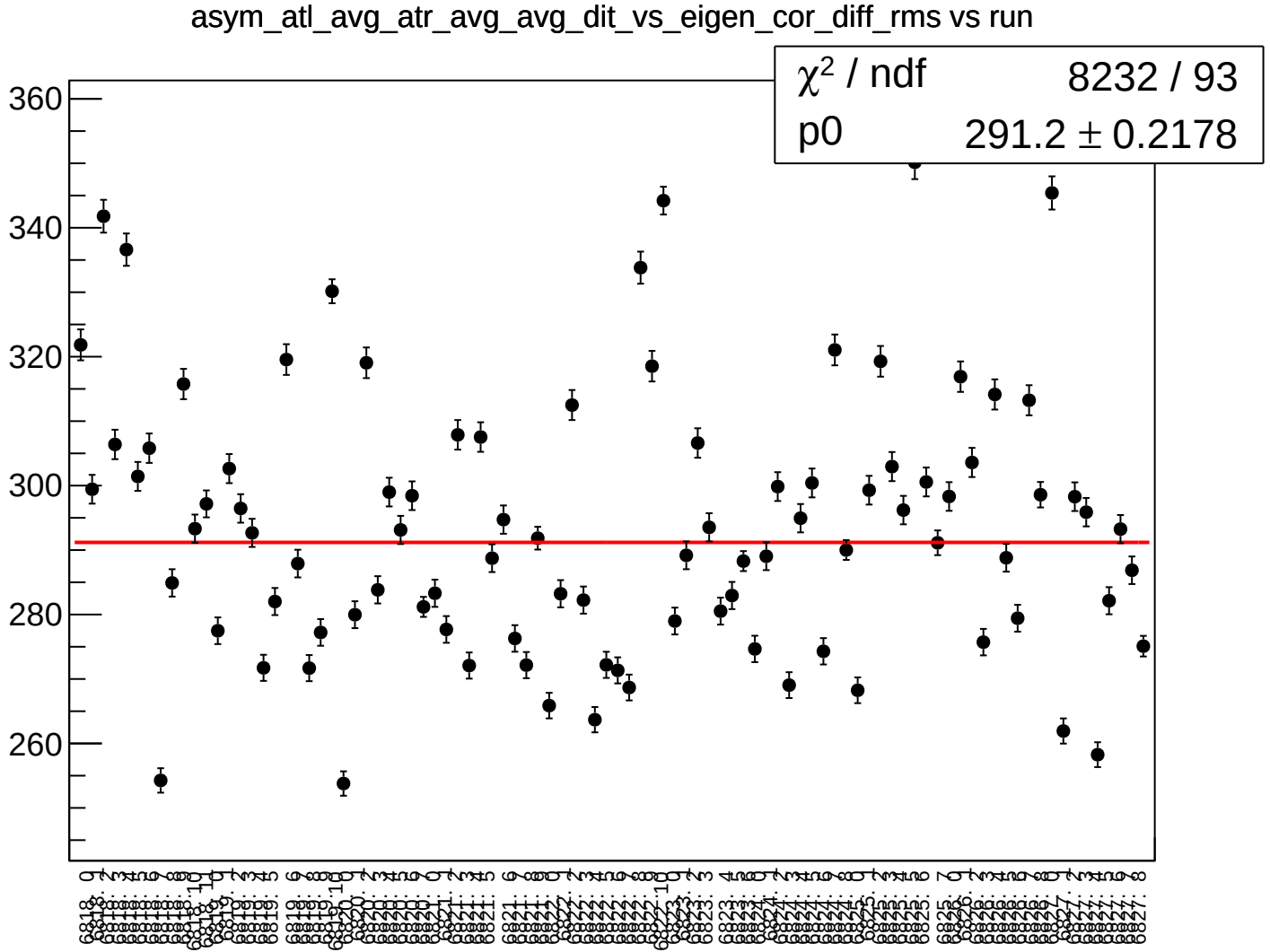

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 93
p0 6.011e−14 ± 9.503e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 94
Mean −56.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.03778
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

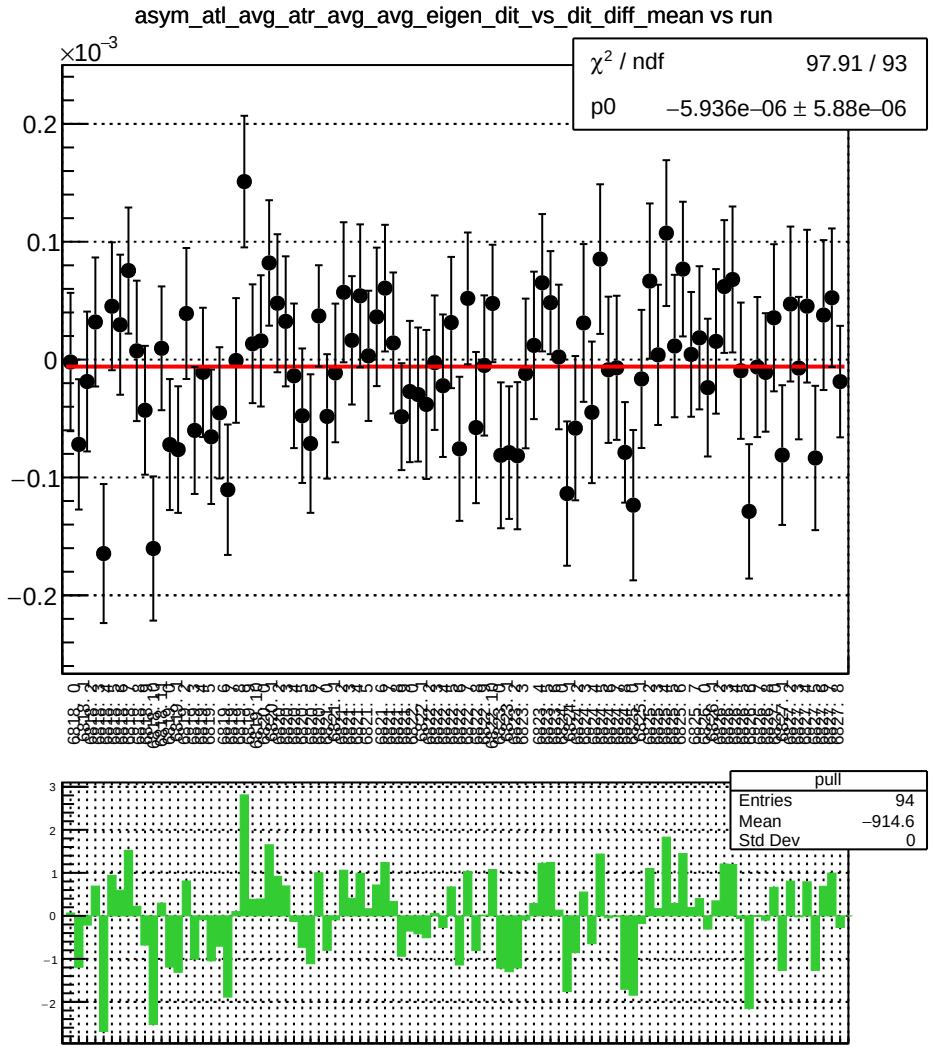

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.222e+06 / 93
p0 5.089e−11 ± 6.72e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

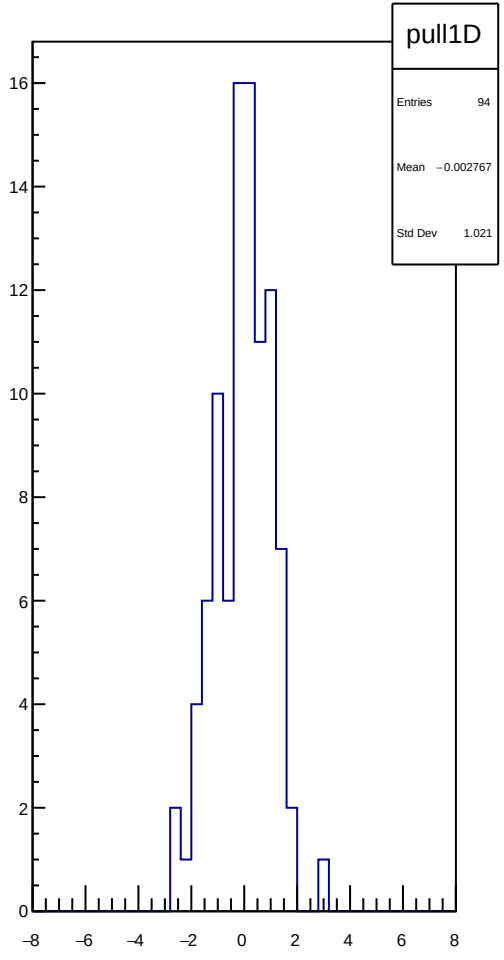

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.2083 ± 0.3081
pull
Entries 94
Mean 387.9
Std Dev 0
pull1D
Entries 94
Mean 0.002677
Std Dev 0.9638

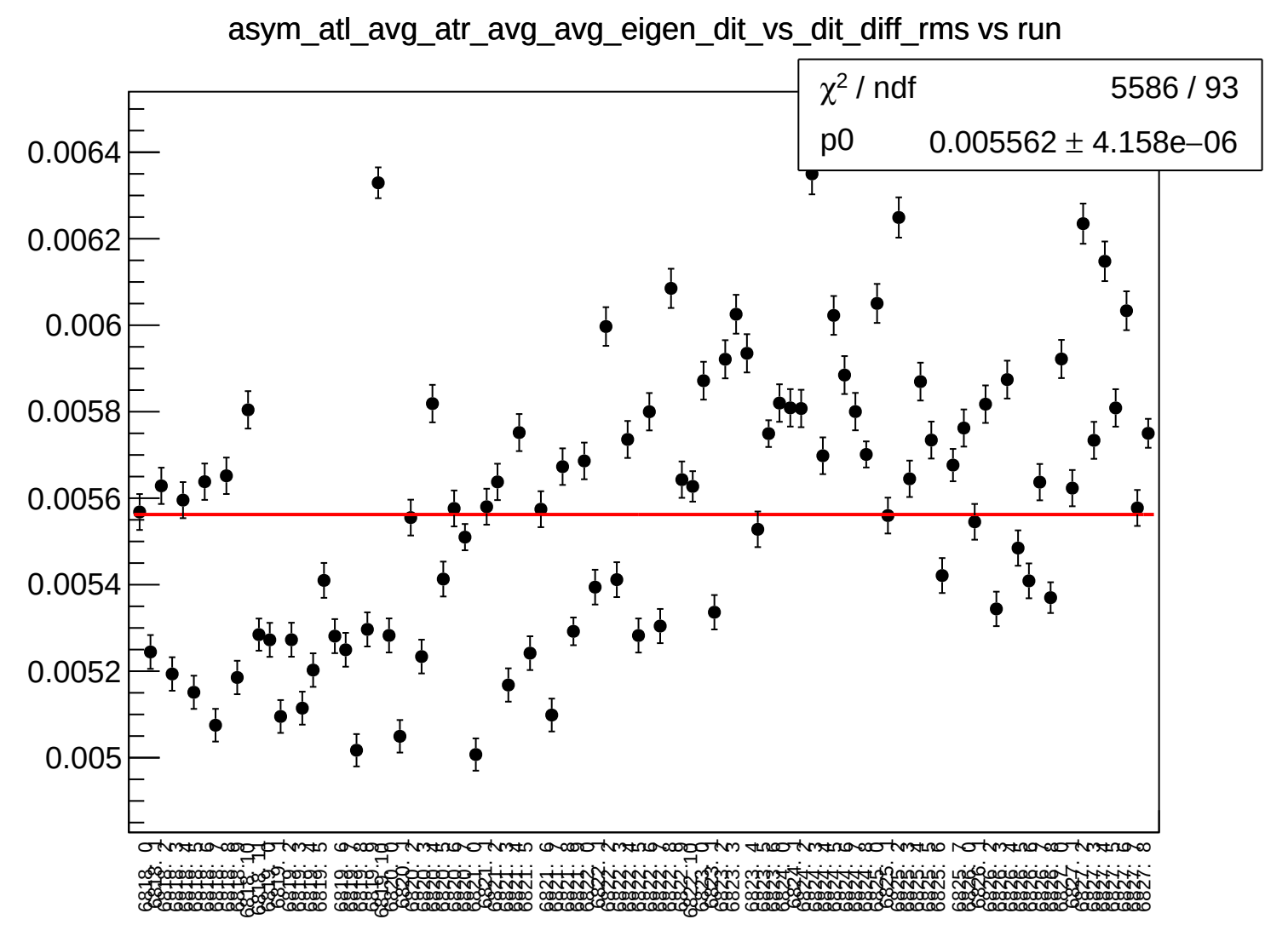

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8232 / 93
p0 291.2 ± 0.2178
360
340
320
300
280
260

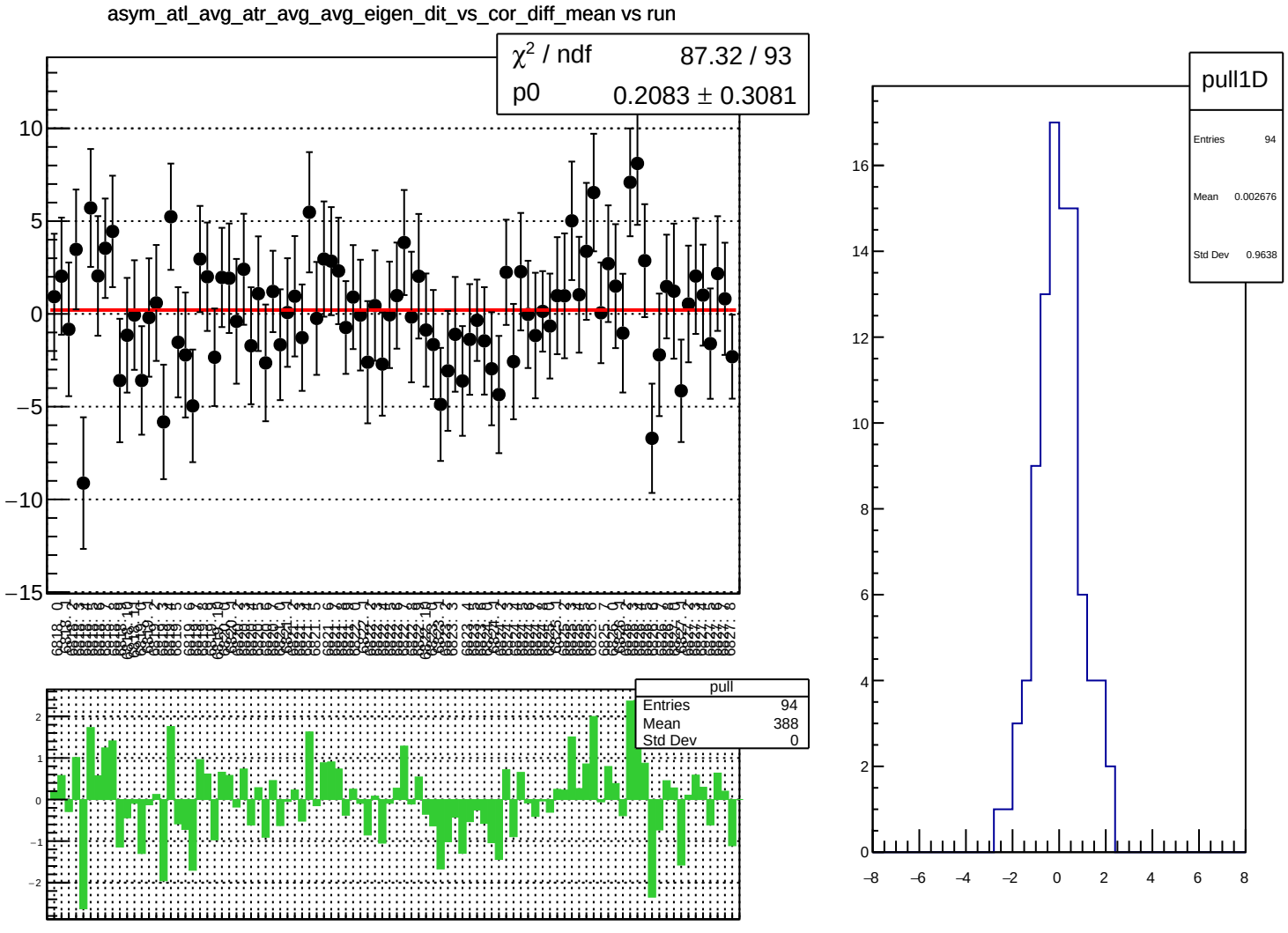

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.2083 ± 0.3081
pull
Entries 94
Mean 387.9
Std Dev 0
pull1D
Entries 94
Mean 0.002677
Std Dev 0.9638

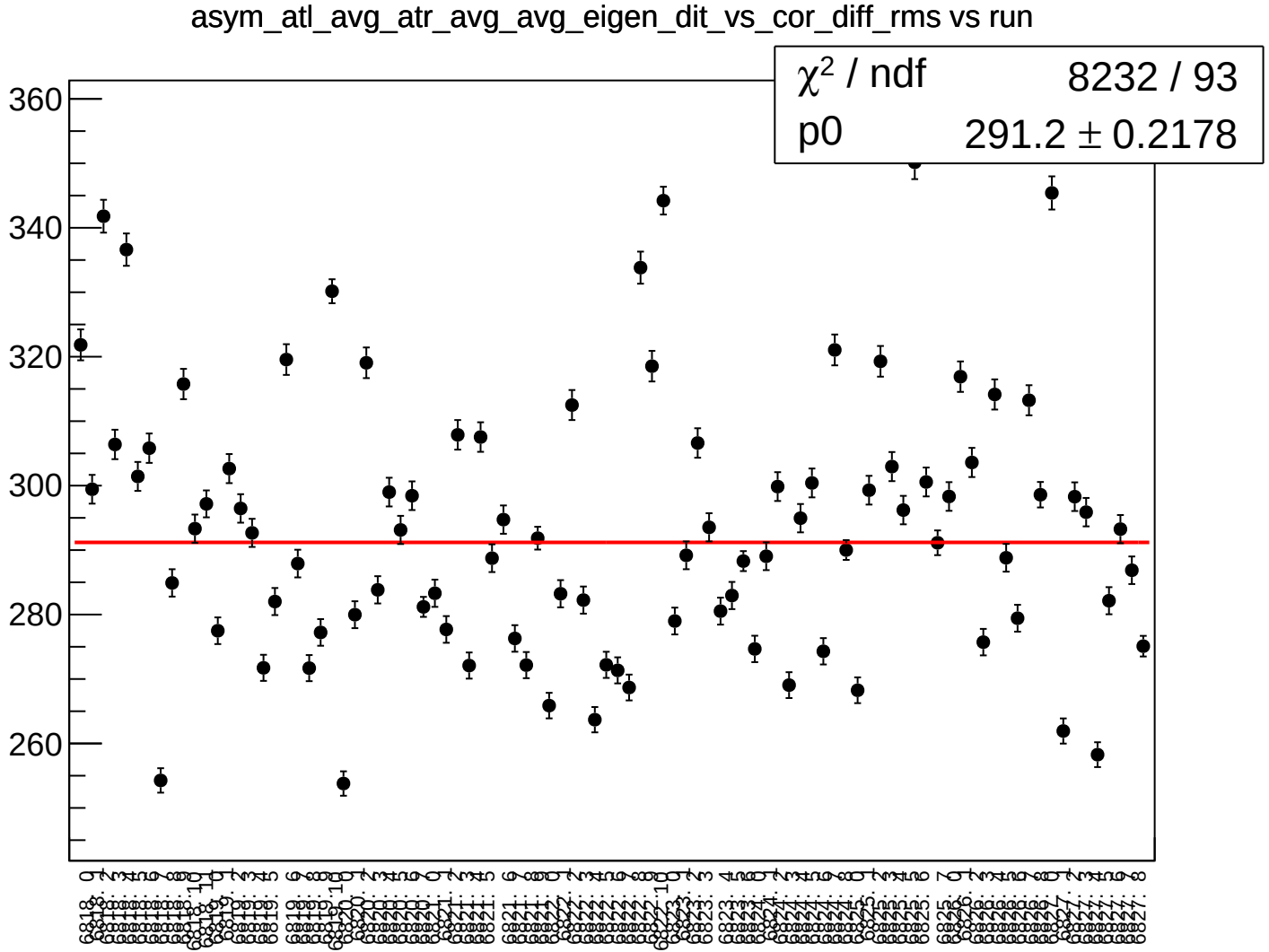

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8232 / 93
p0 291.2 ± 0.2178
360
340
320
300
280
260

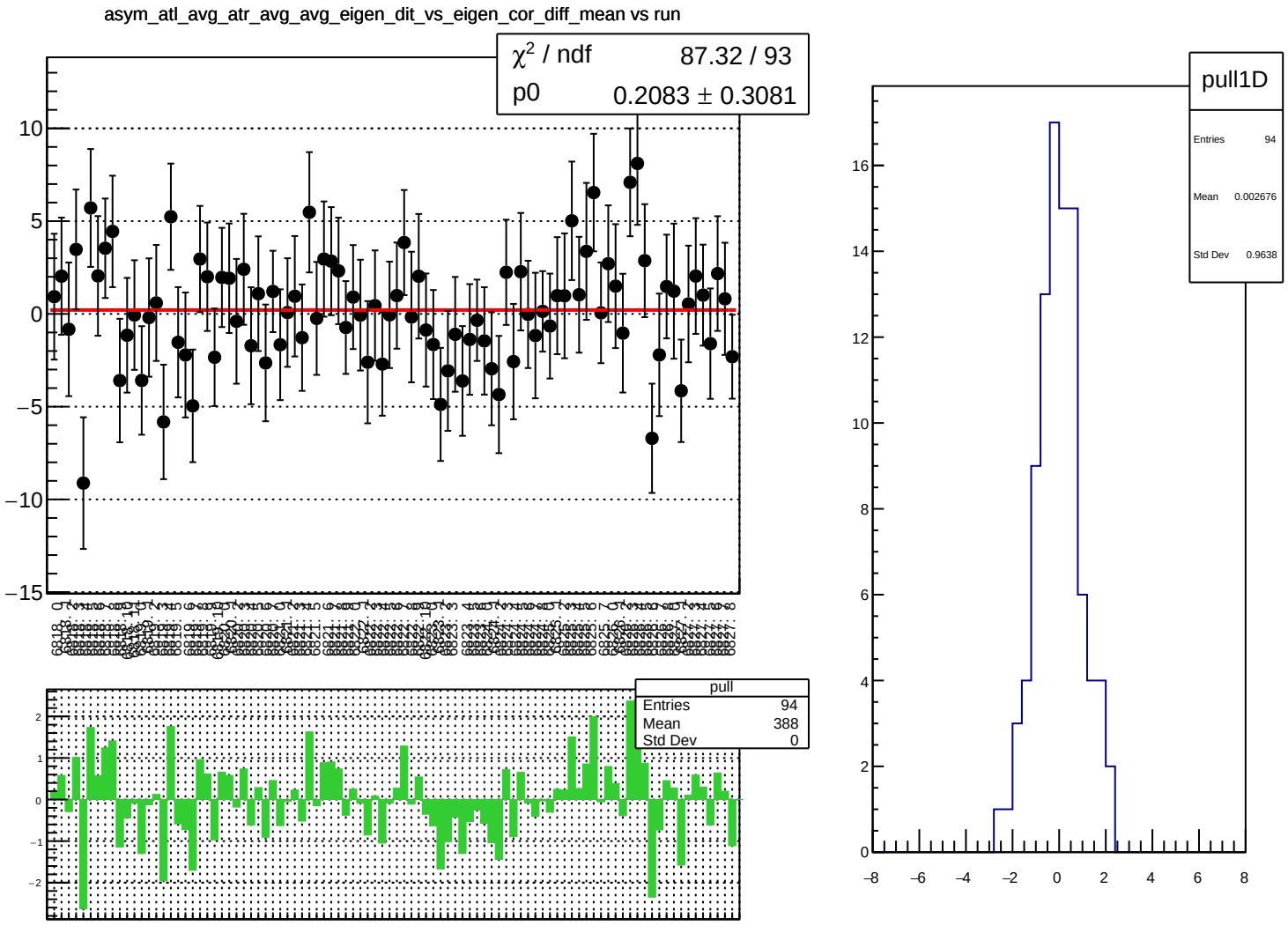

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.91 / 93
p0 −5.936e−06 ± 5.88e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 94
Mean −914.6
Std Dev 0
3
2
1
0
−1
−2

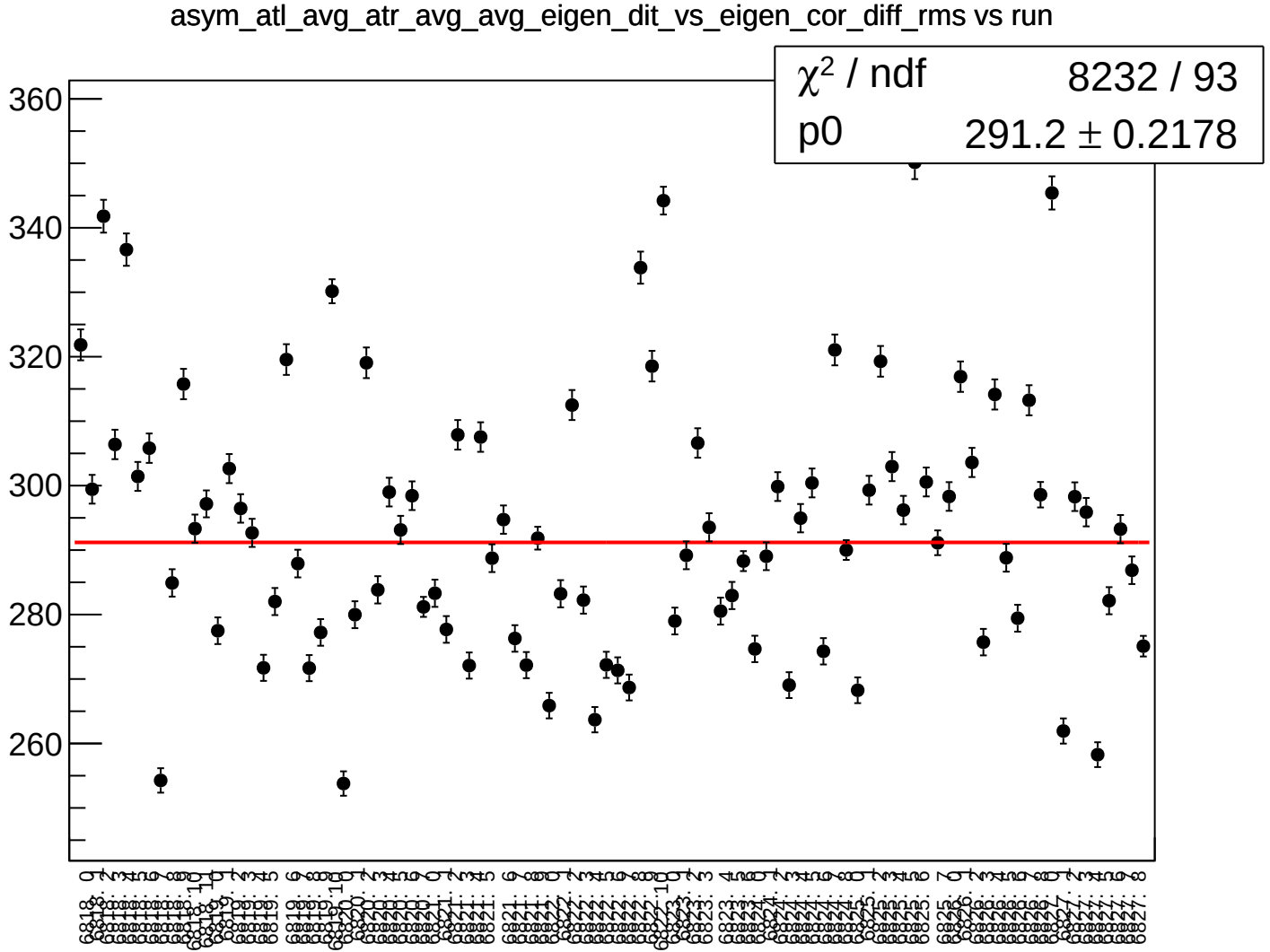

pull1D
Entries 94
Mean −0.002767
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

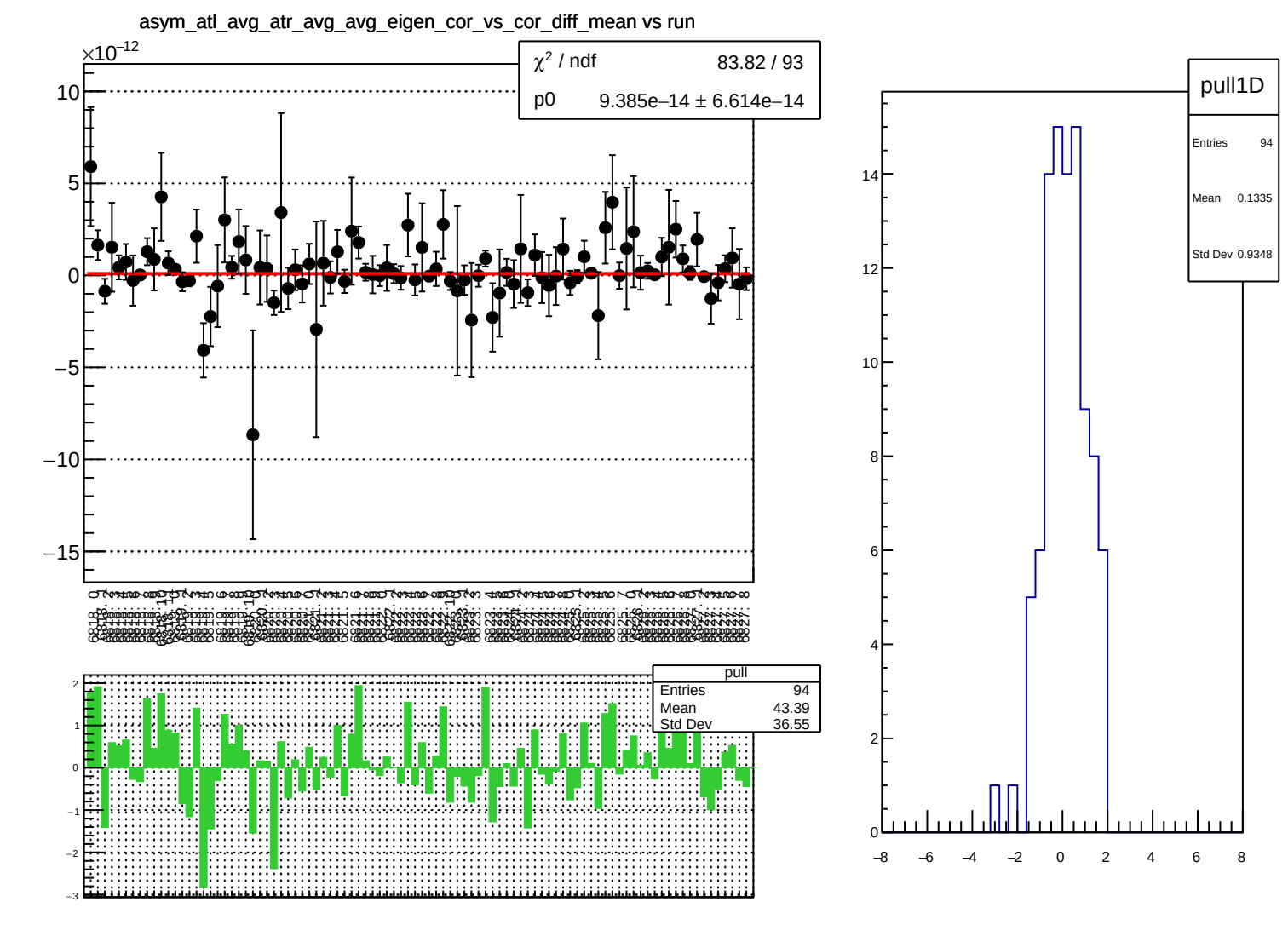

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5586 / 93
p0 0.005562 ± 4.158e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005

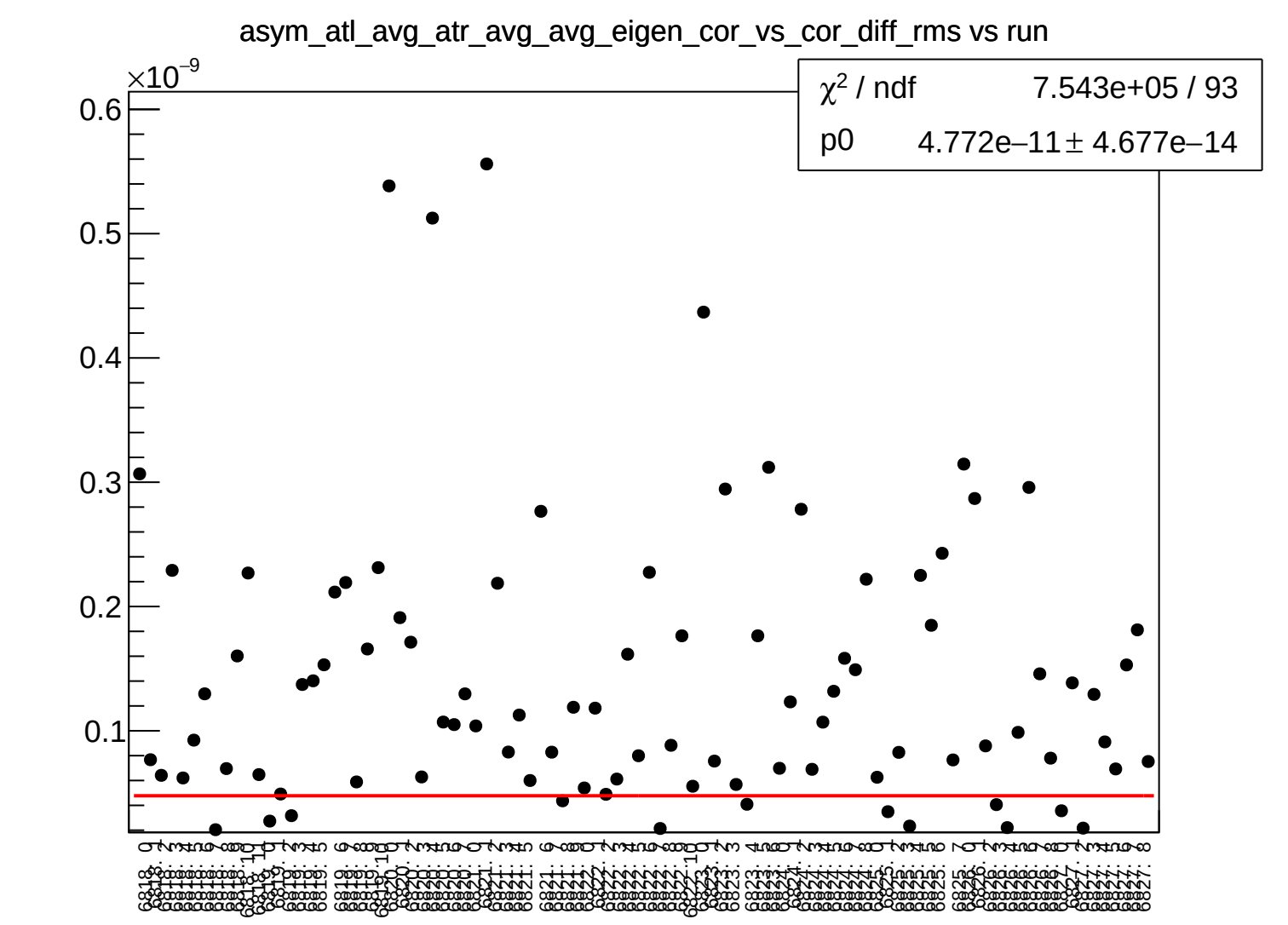

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.2083 ± 0.3081
pull
Entries 94
Mean 388
Std Dev 0
pull1D
Entries 94
Mean 0.002676
Std Dev 0.9638

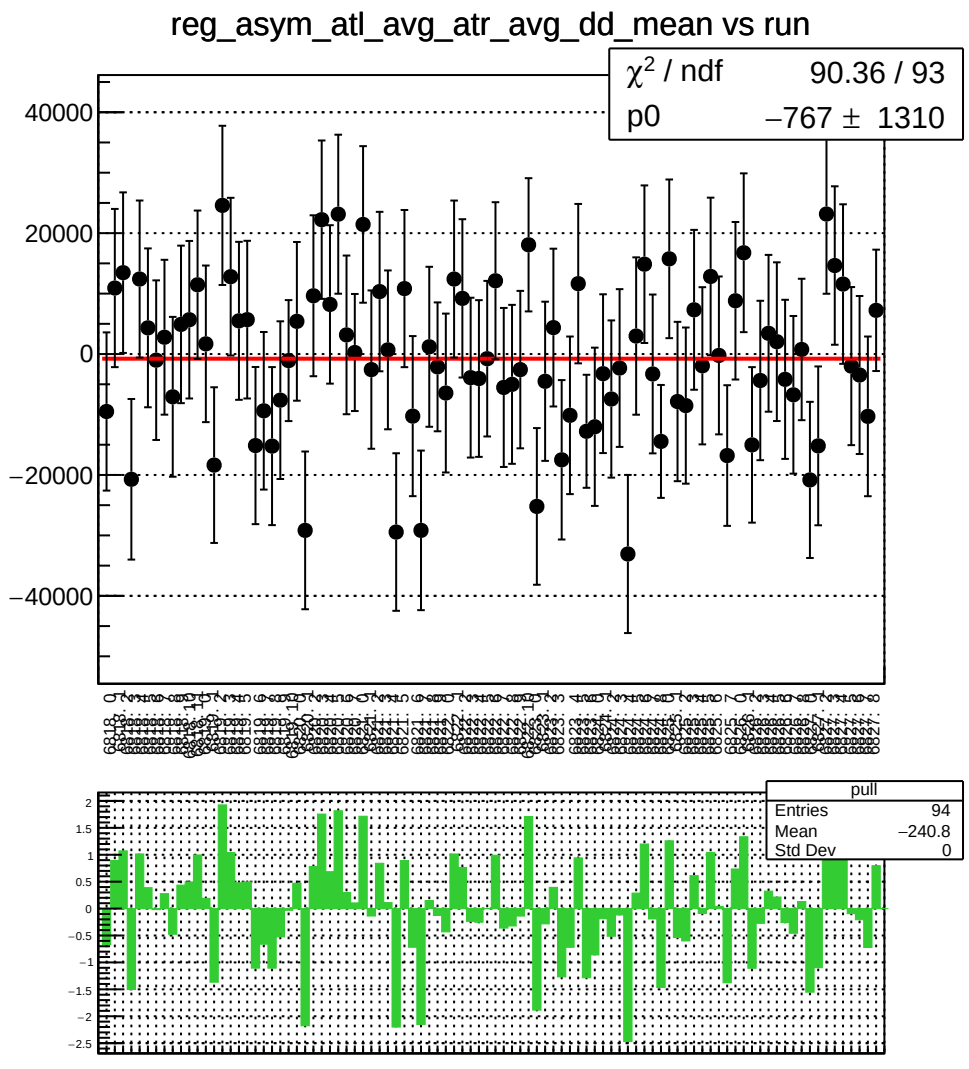

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8232 / 93
p0 291.2 ± 0.2178
360
340
320
300
280
260

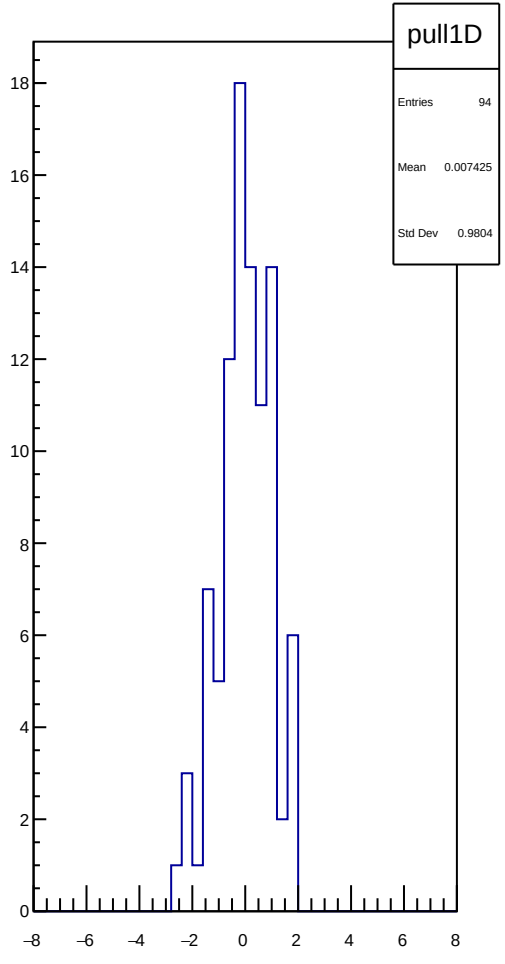

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.2083 ± 0.3081
pull
Entries 94
Mean 388
Std Dev 0
pull1D
Entries 94
Mean 0.002676
Std Dev 0.9638

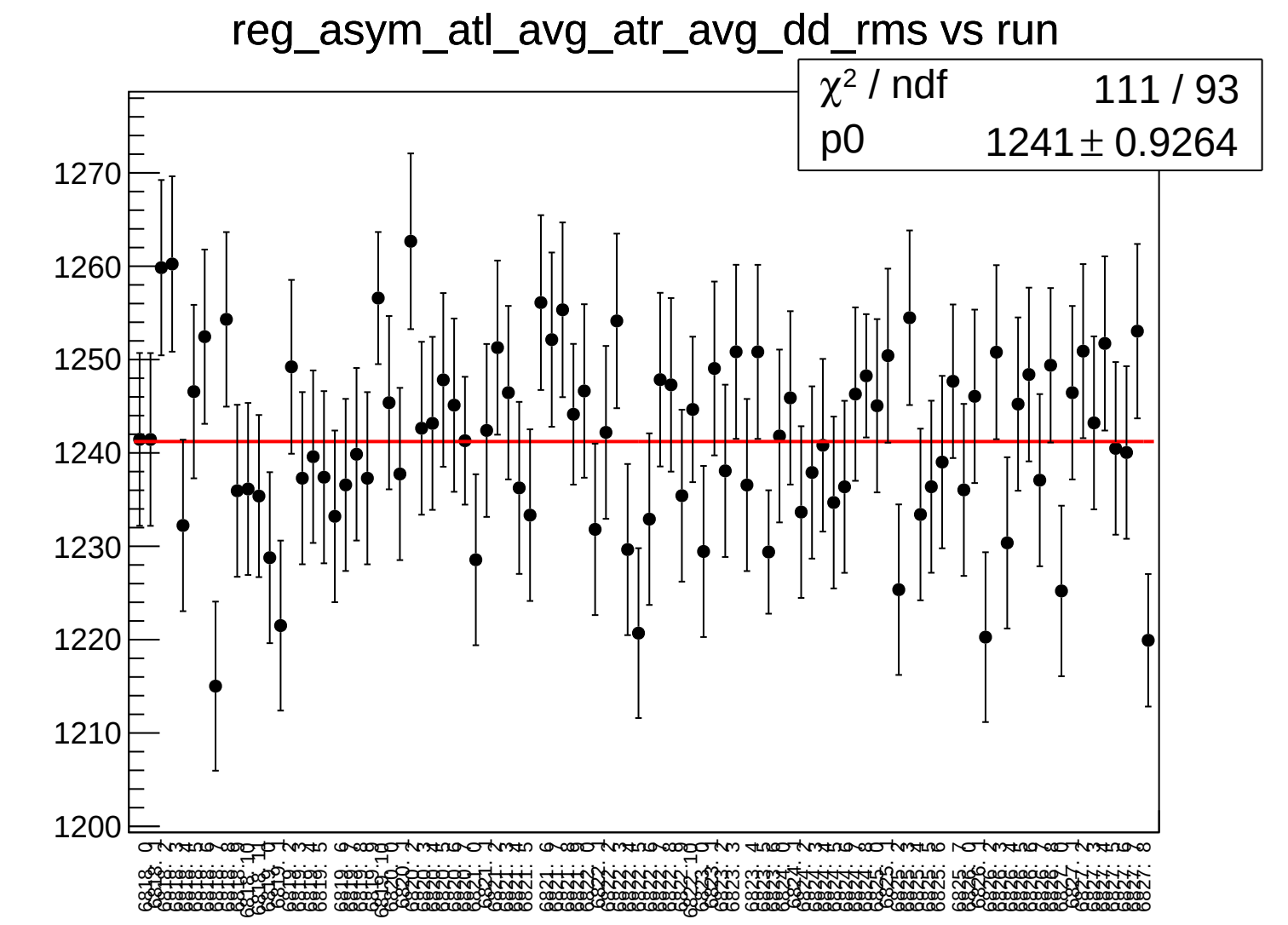

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8232 / 93
p0 291.2 ± 0.2178
360
340
320
300
280
260

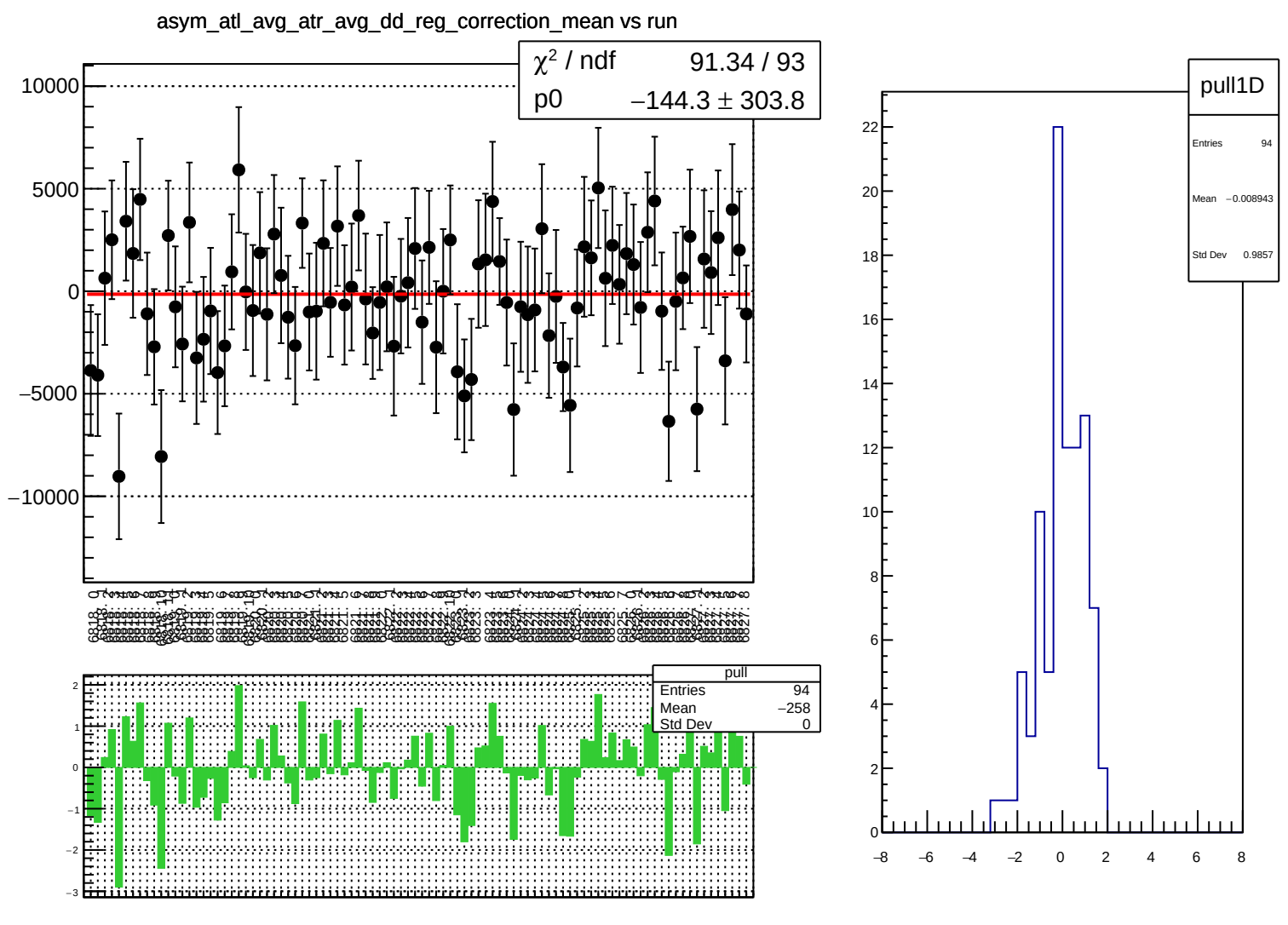

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.82 / 93
p0 9.385e−14 ± 6.614e−14
pull
Entries 94
Mean 43.39
Std Dev 36.55
pull1D
Entries 94
Mean 0.1335
Std Dev 0.9348

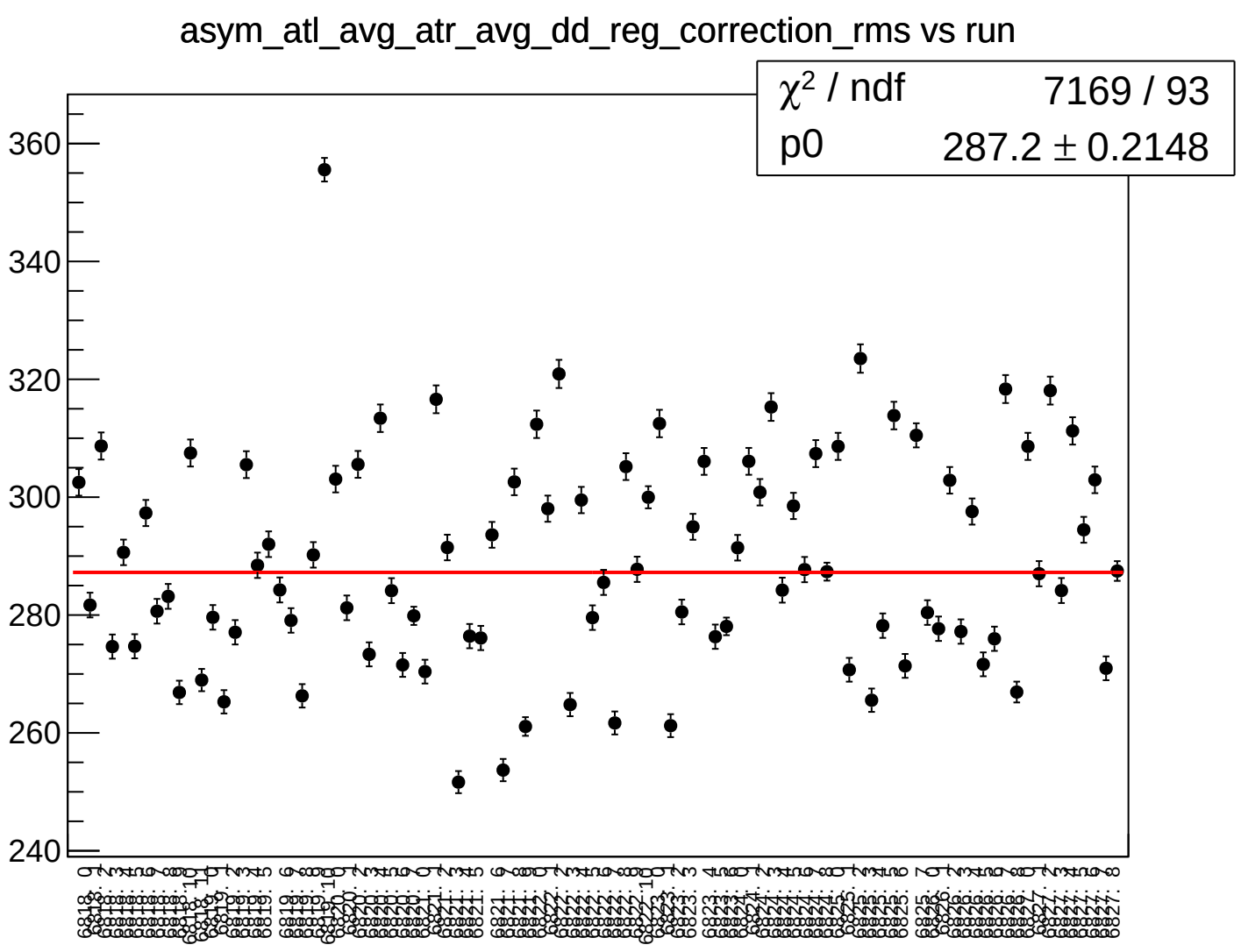

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.543e+05 / 93
p0 4.772e−11 ± 4.677e−14
0.6
0.5
0.4
0.3
0.2
0.1

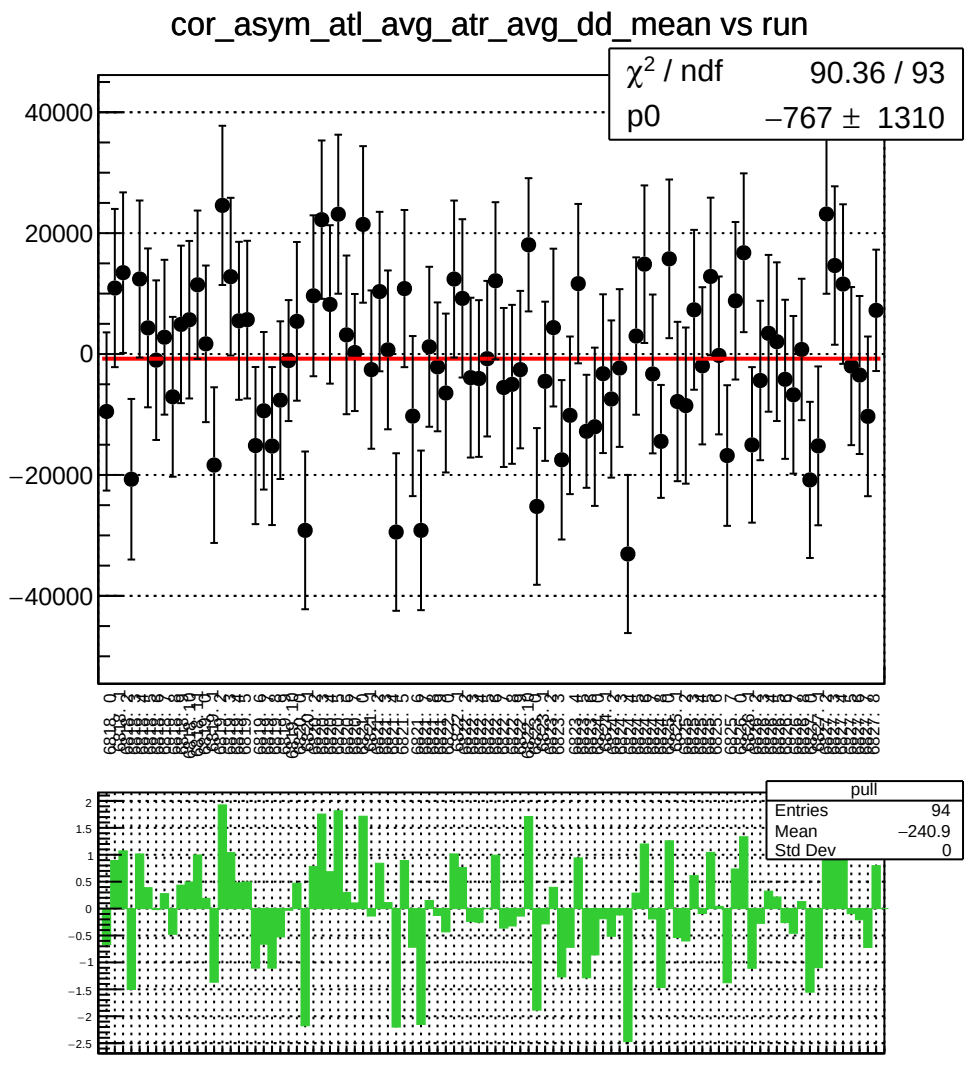

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

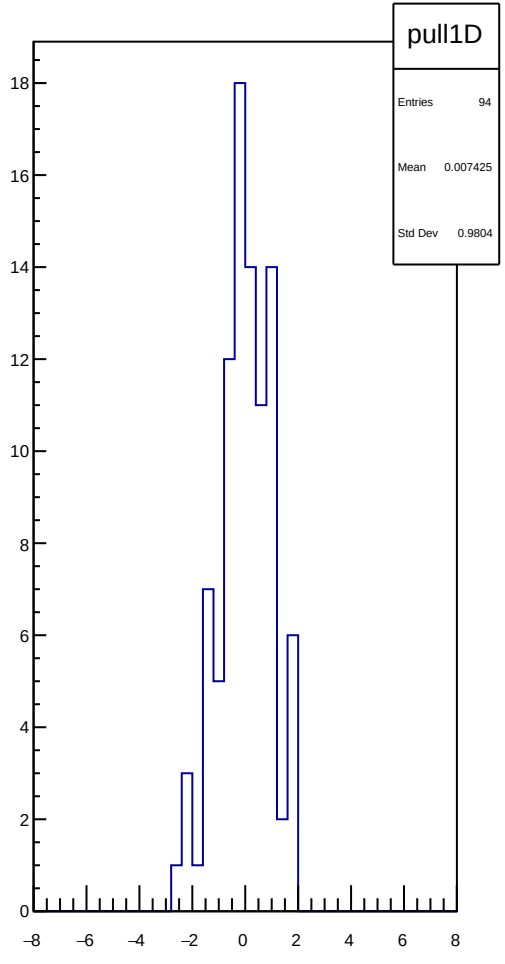

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

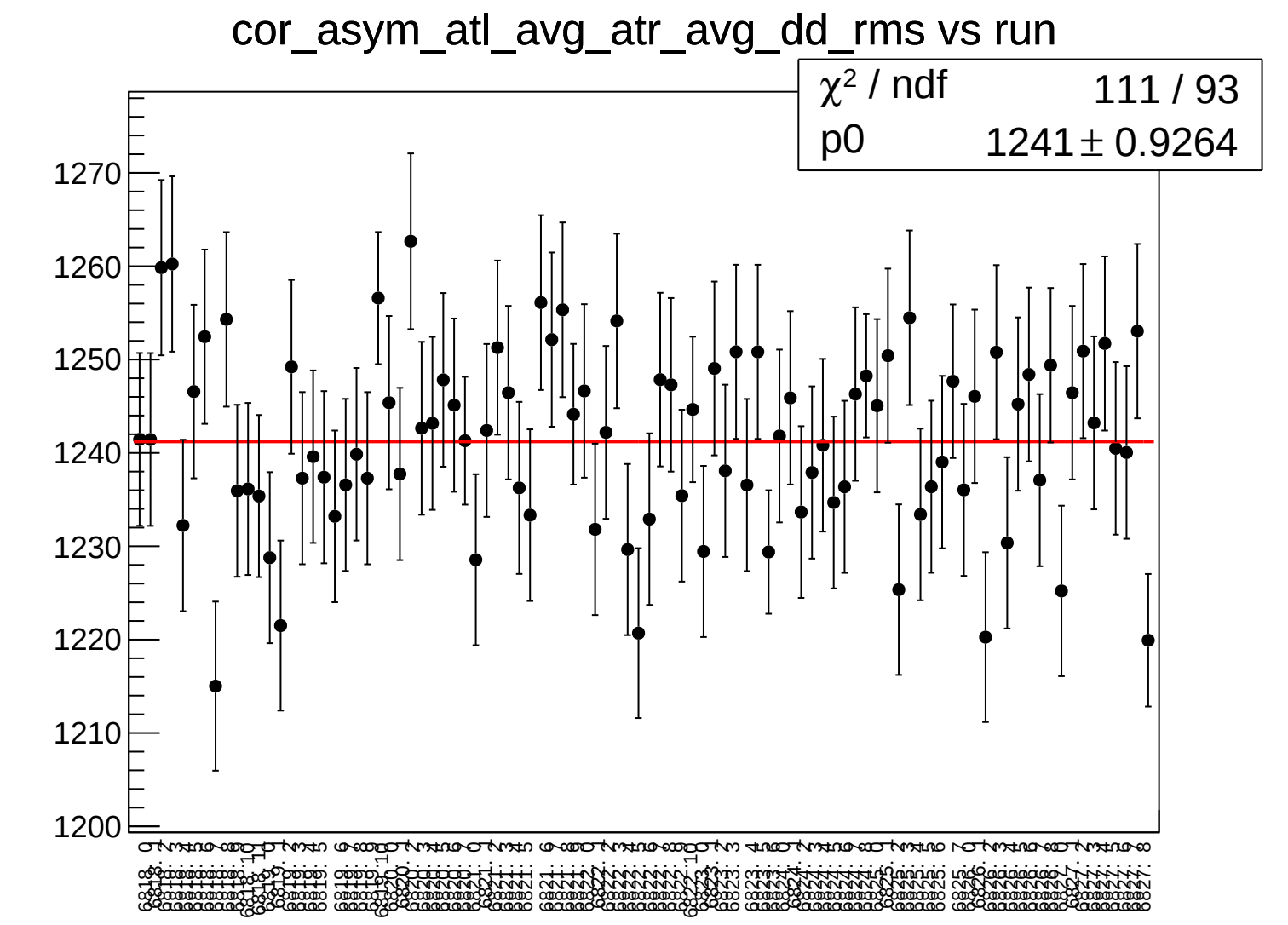

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200

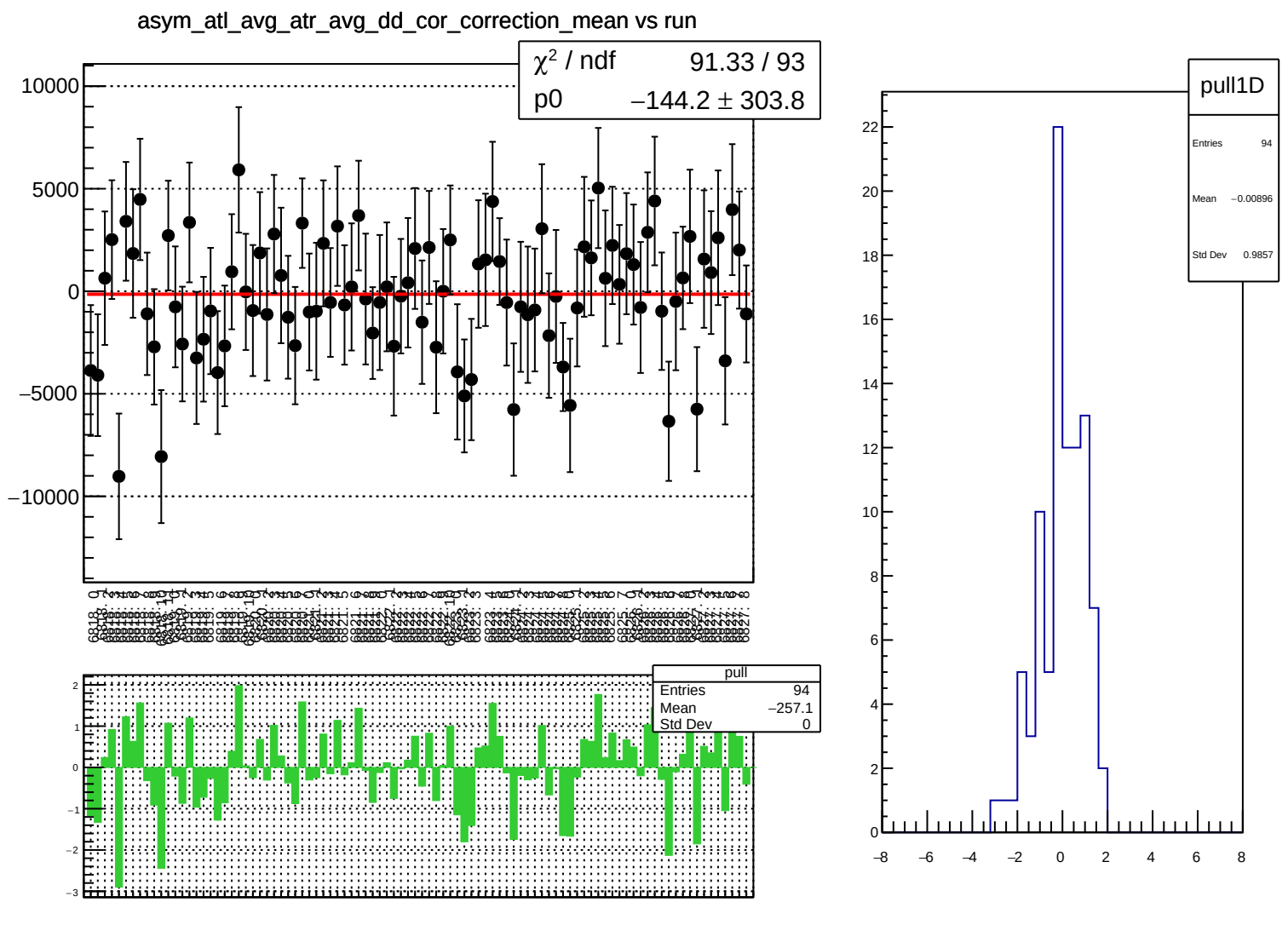

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 91.34 / 93
p0 −144.3 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −258
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.008943
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

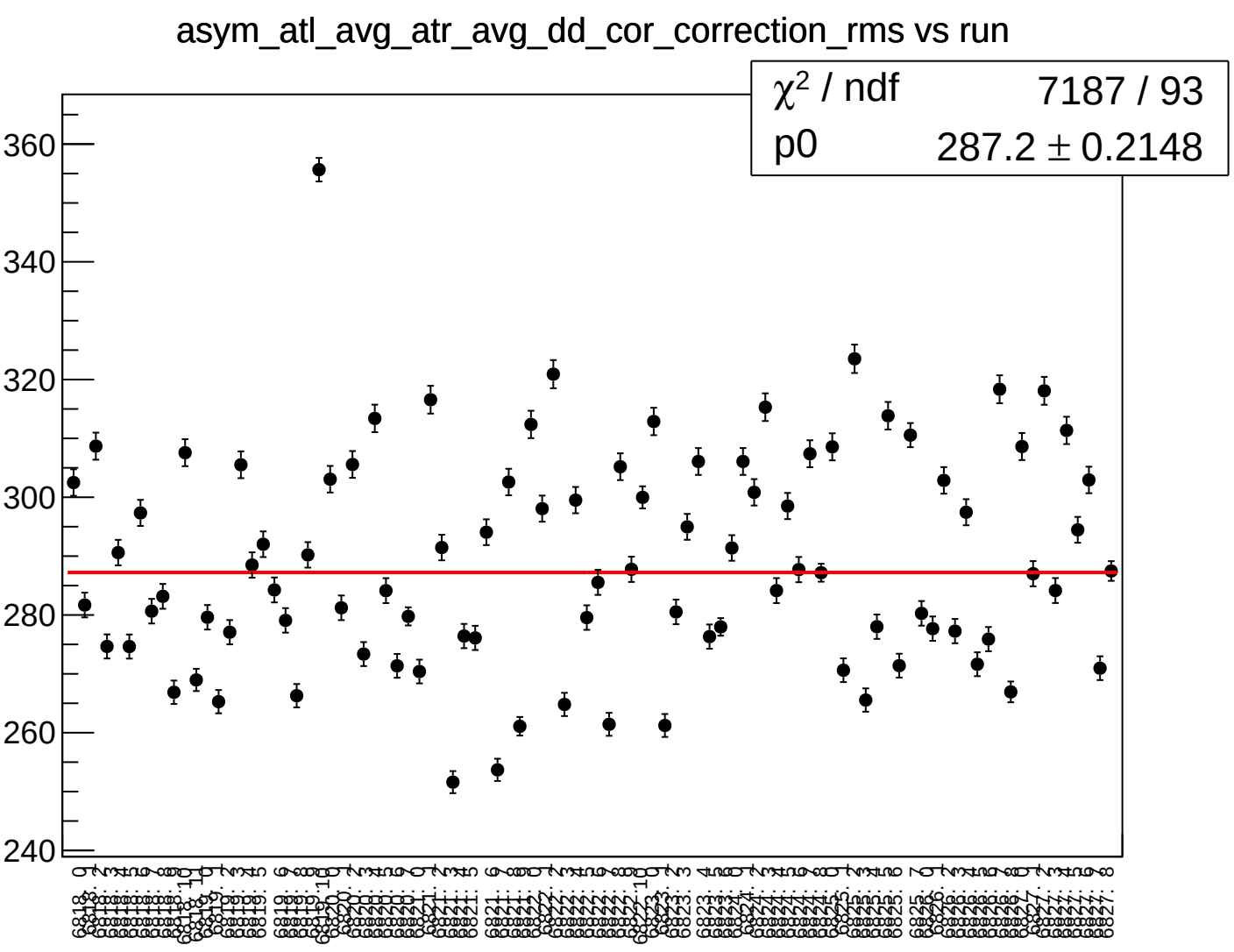

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7169 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240

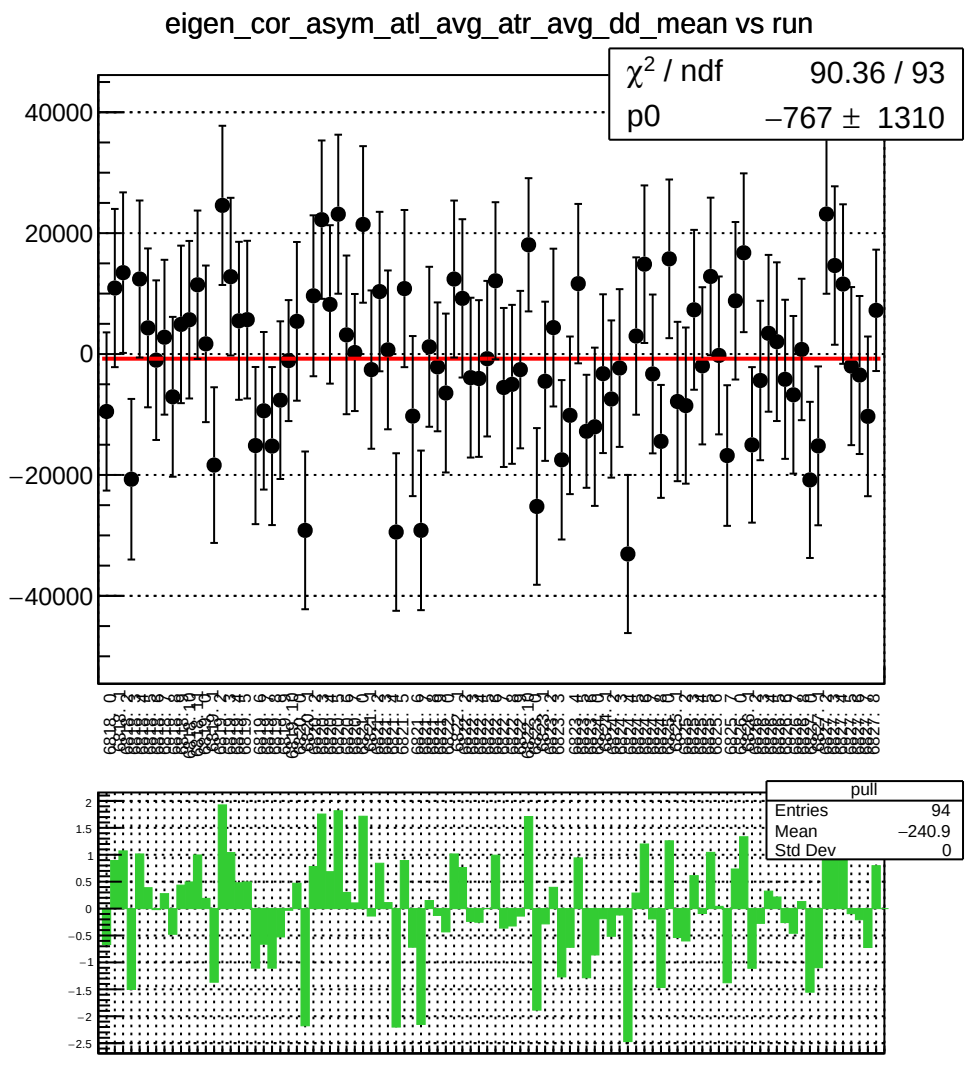

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

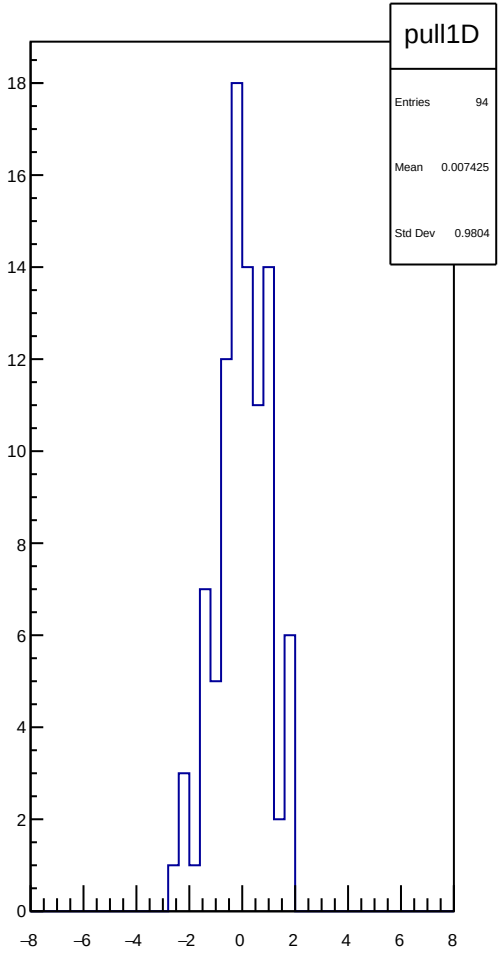

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

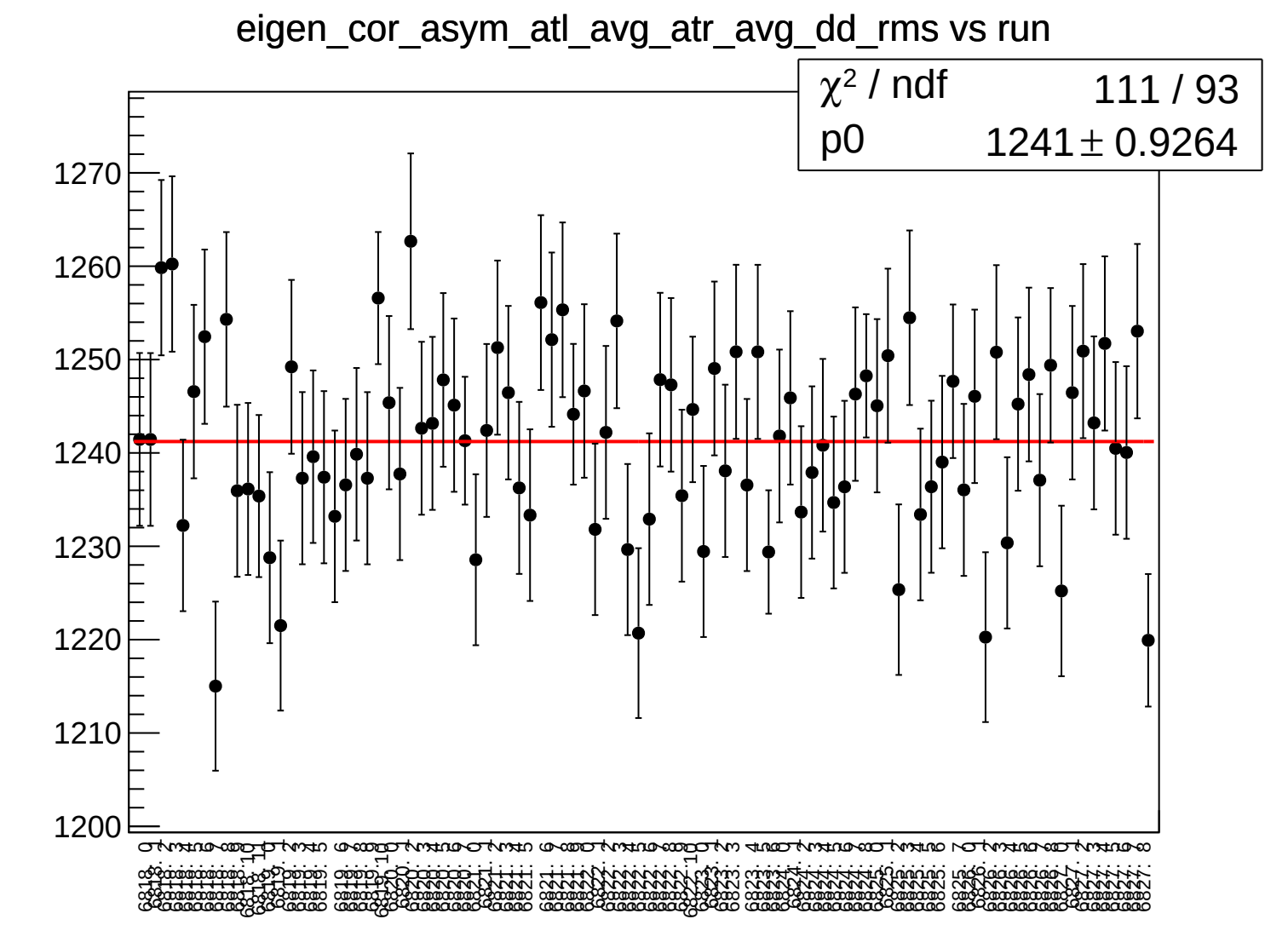

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200

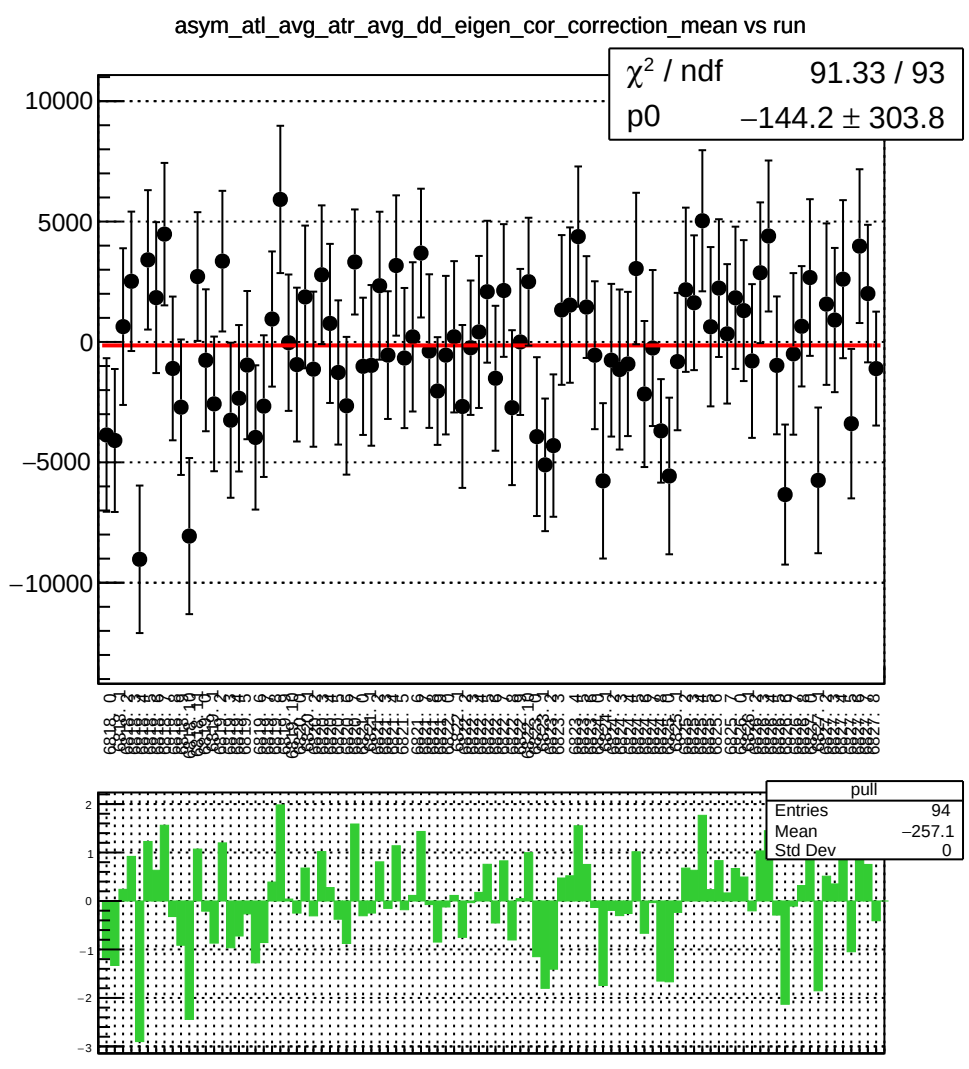

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 91.33 / 93
p0 −144.2 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −257.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.00896
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

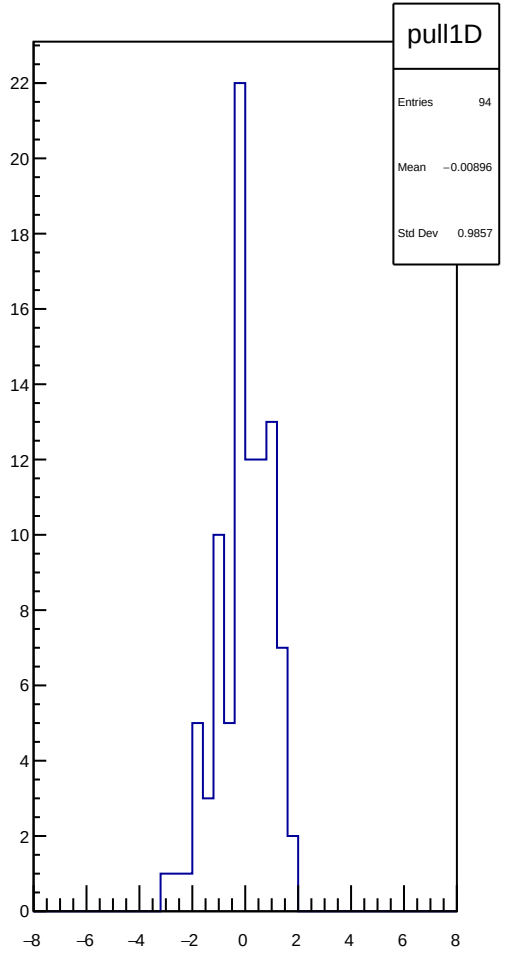

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7187 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240

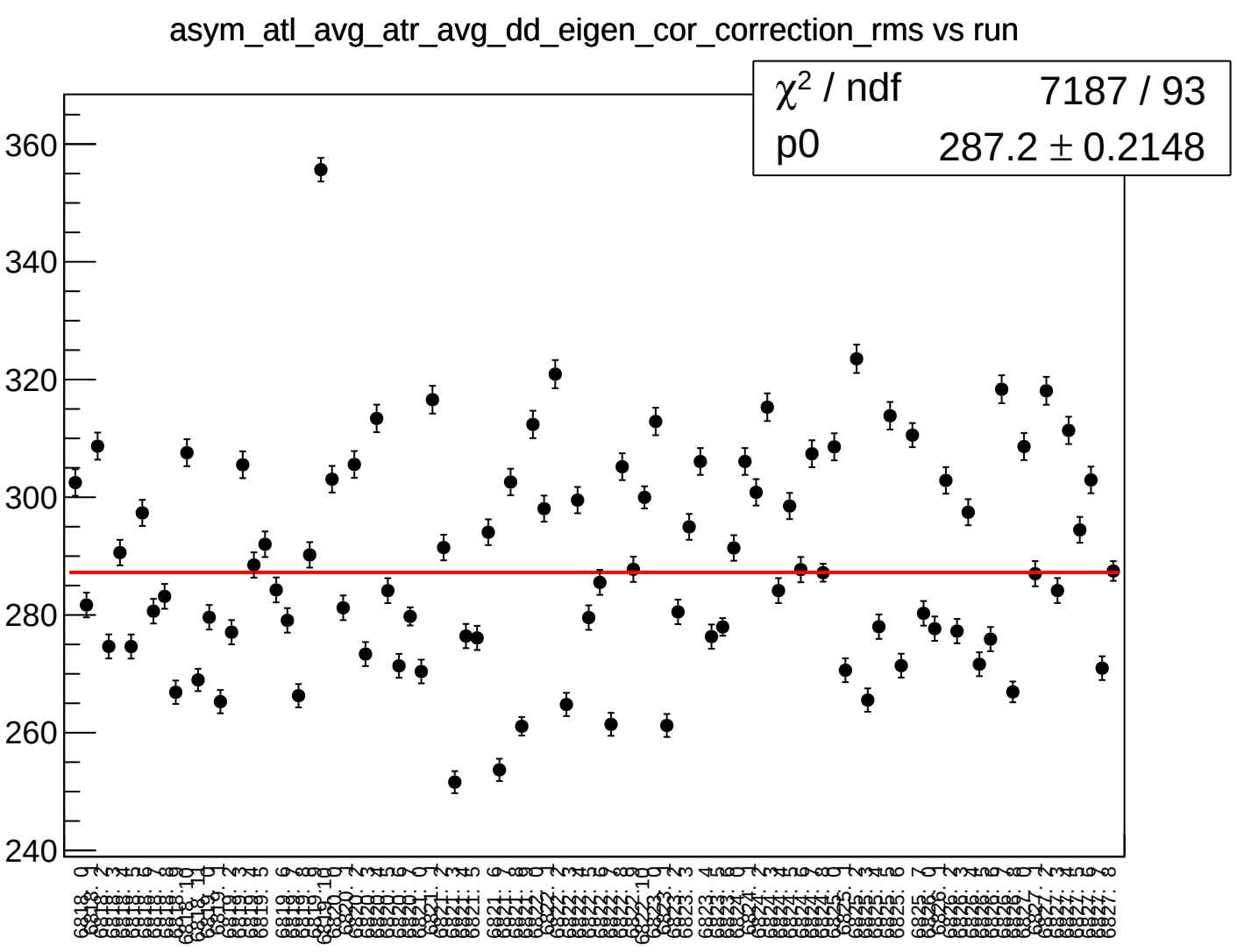

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

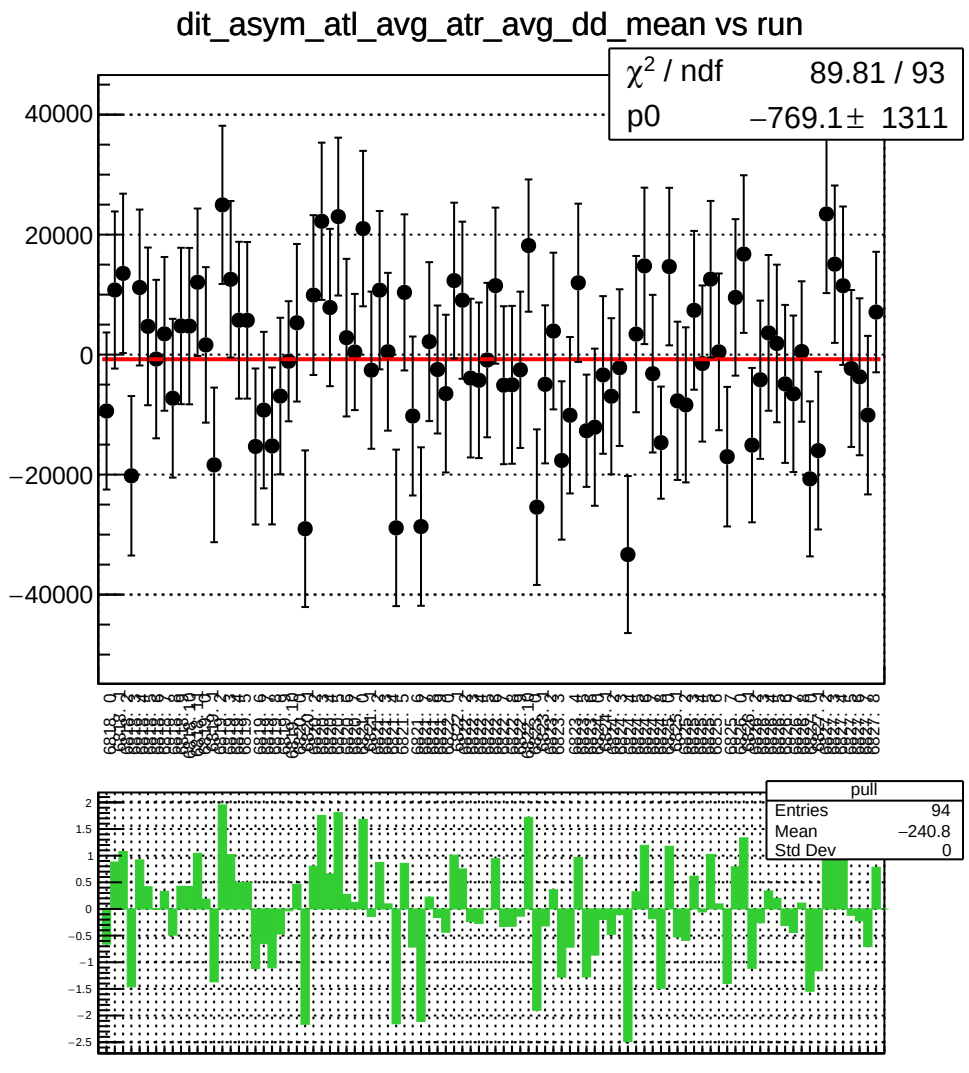

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

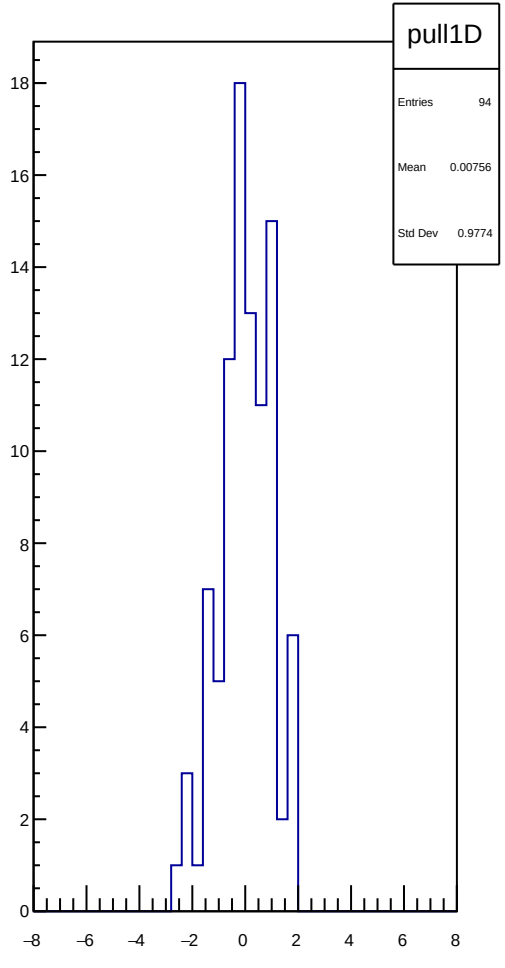

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200

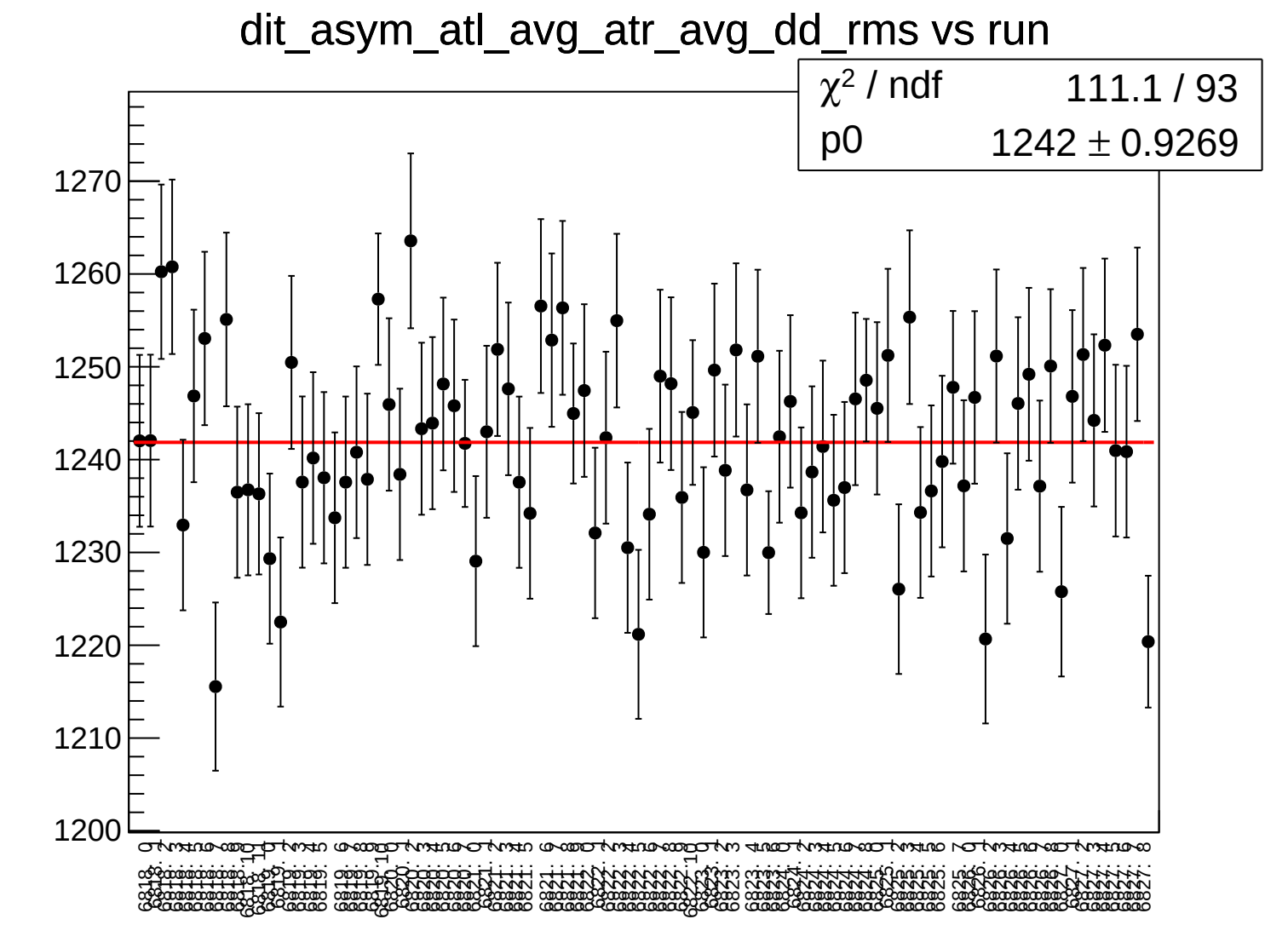

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.33 / 93
p0 −144.2 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −257.1
Std Dev 0
2
1
0
−1
−2
−3

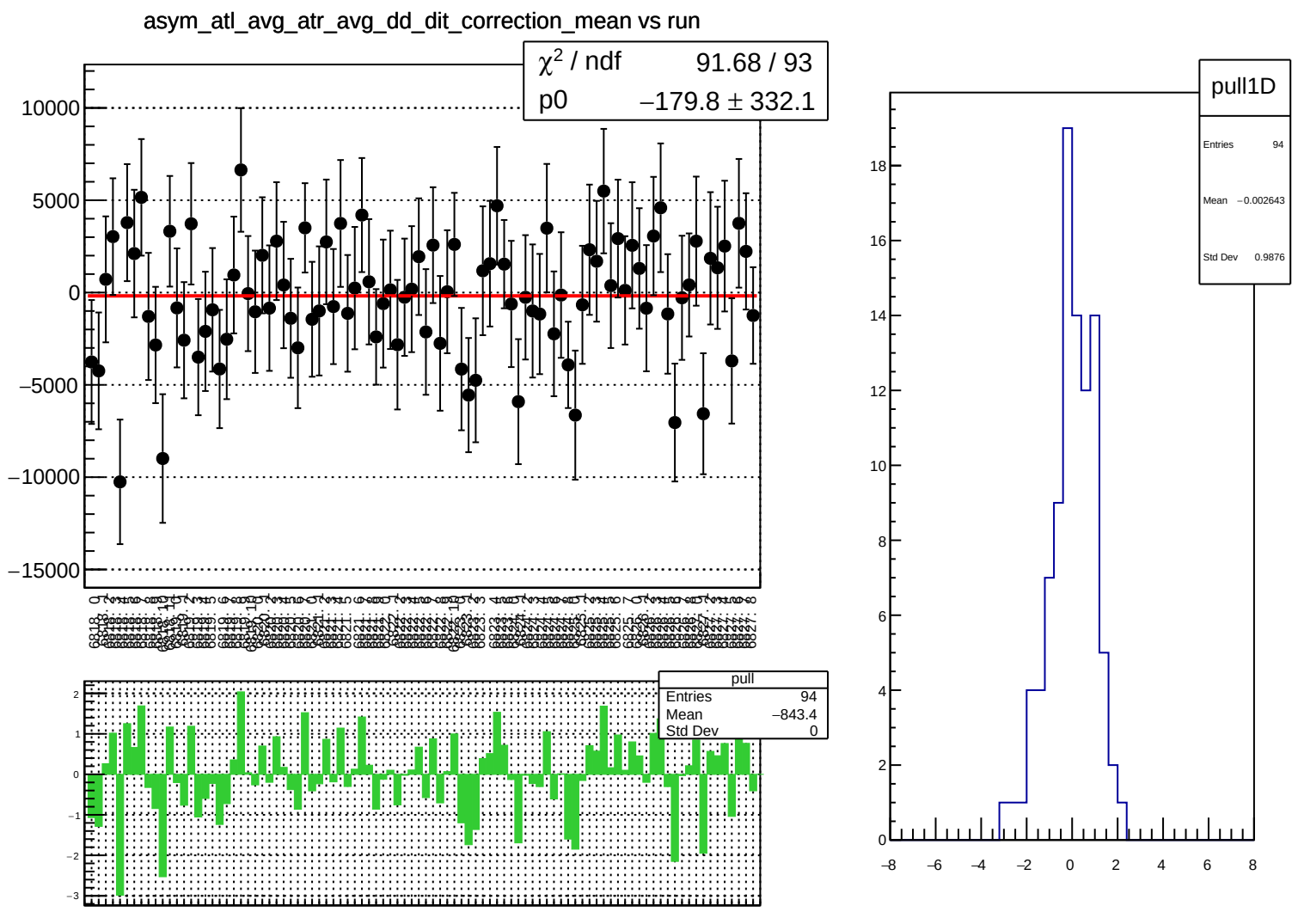

pull1D
Entries 94
Mean −0.00896
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

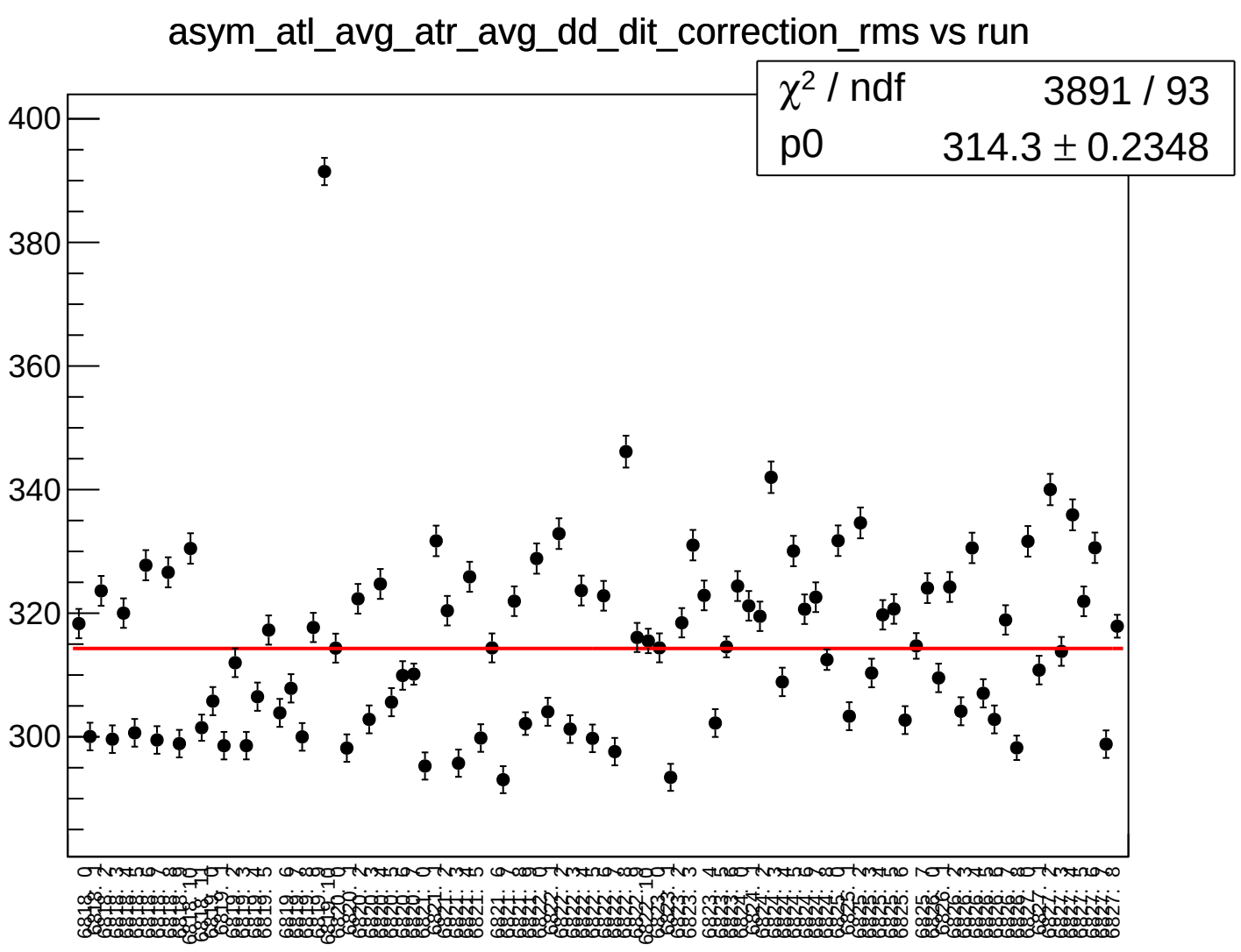

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7187 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240

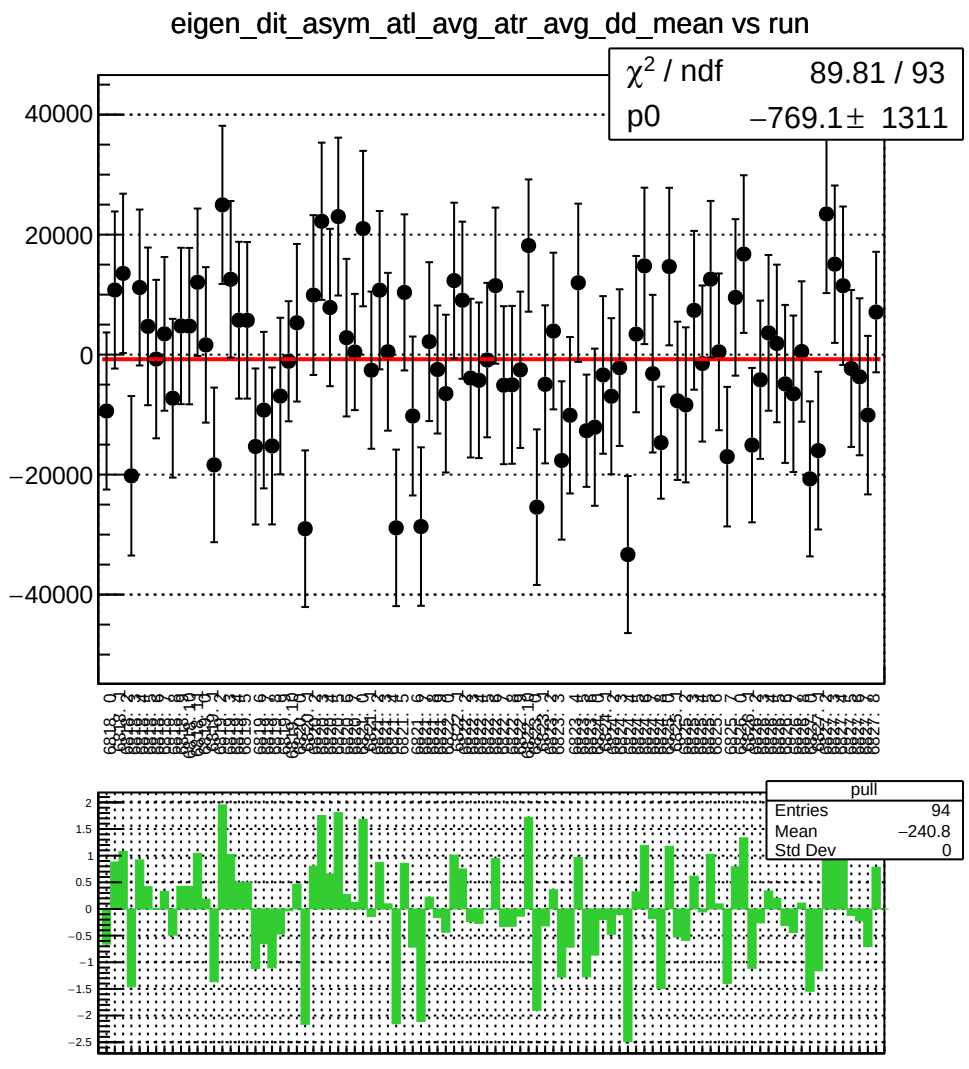

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.81 / 93
p0 −769.1± 1311
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

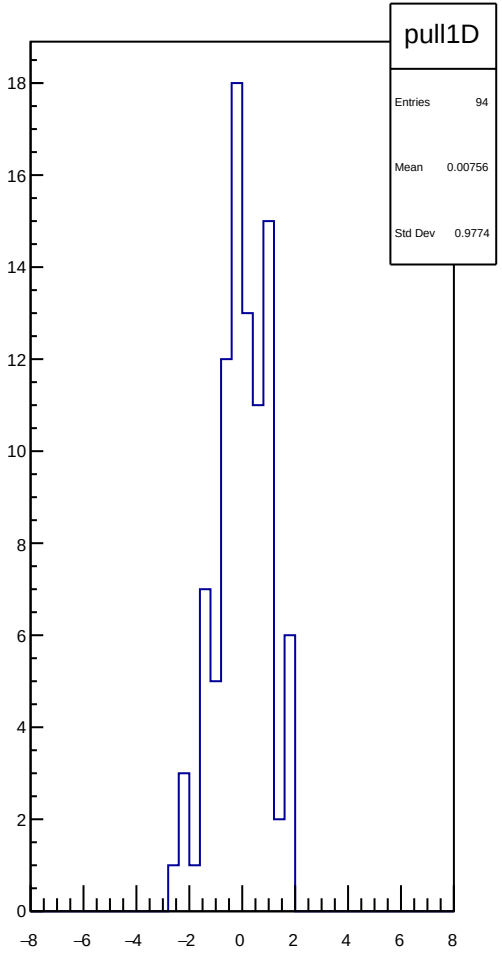

pull1D
Entries 94
Mean 0.00756
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

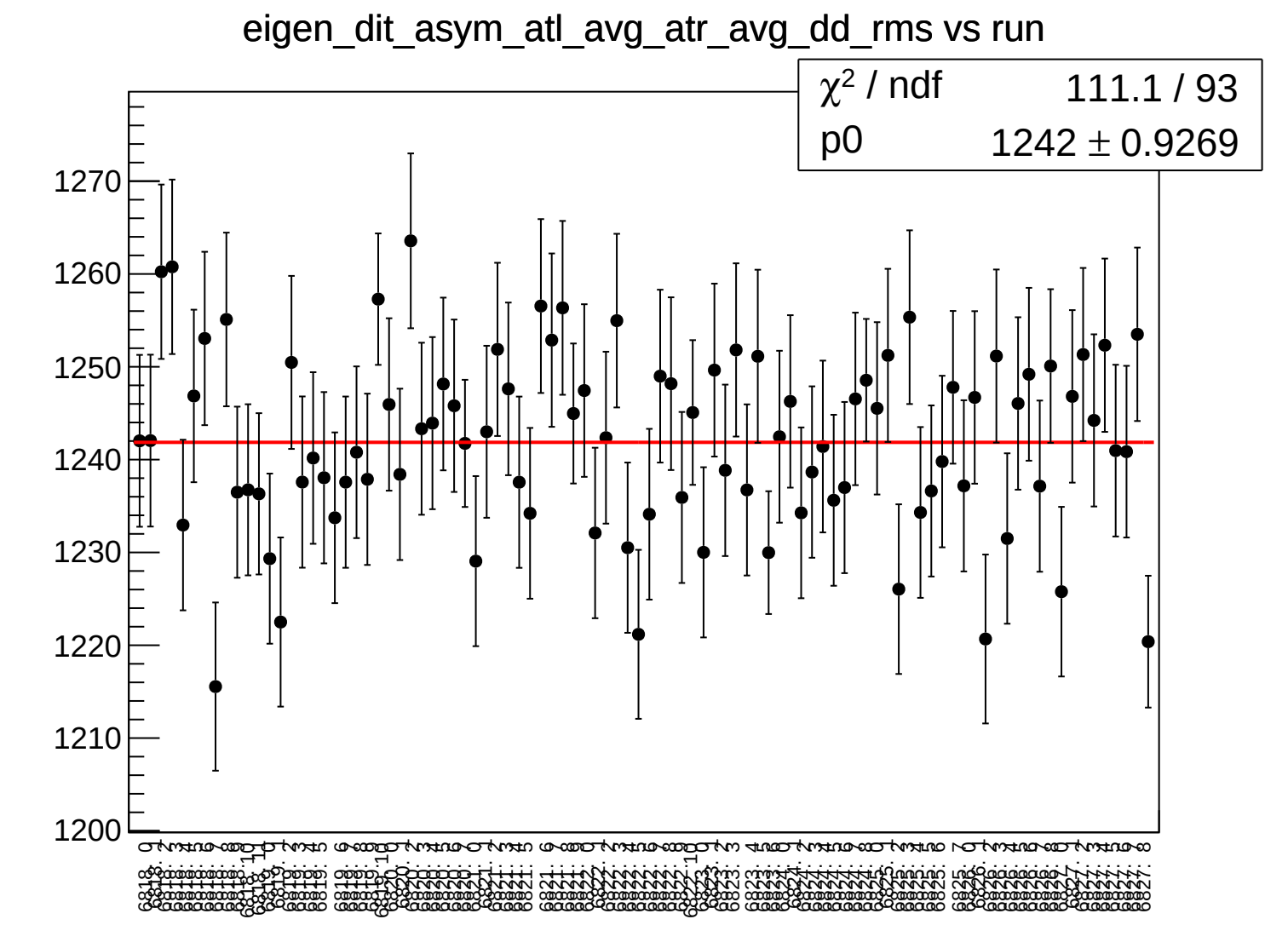

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.1 / 93
p0 1242 ± 0.9269
1270
1260
1250
1240
1230
1220
1210
1200

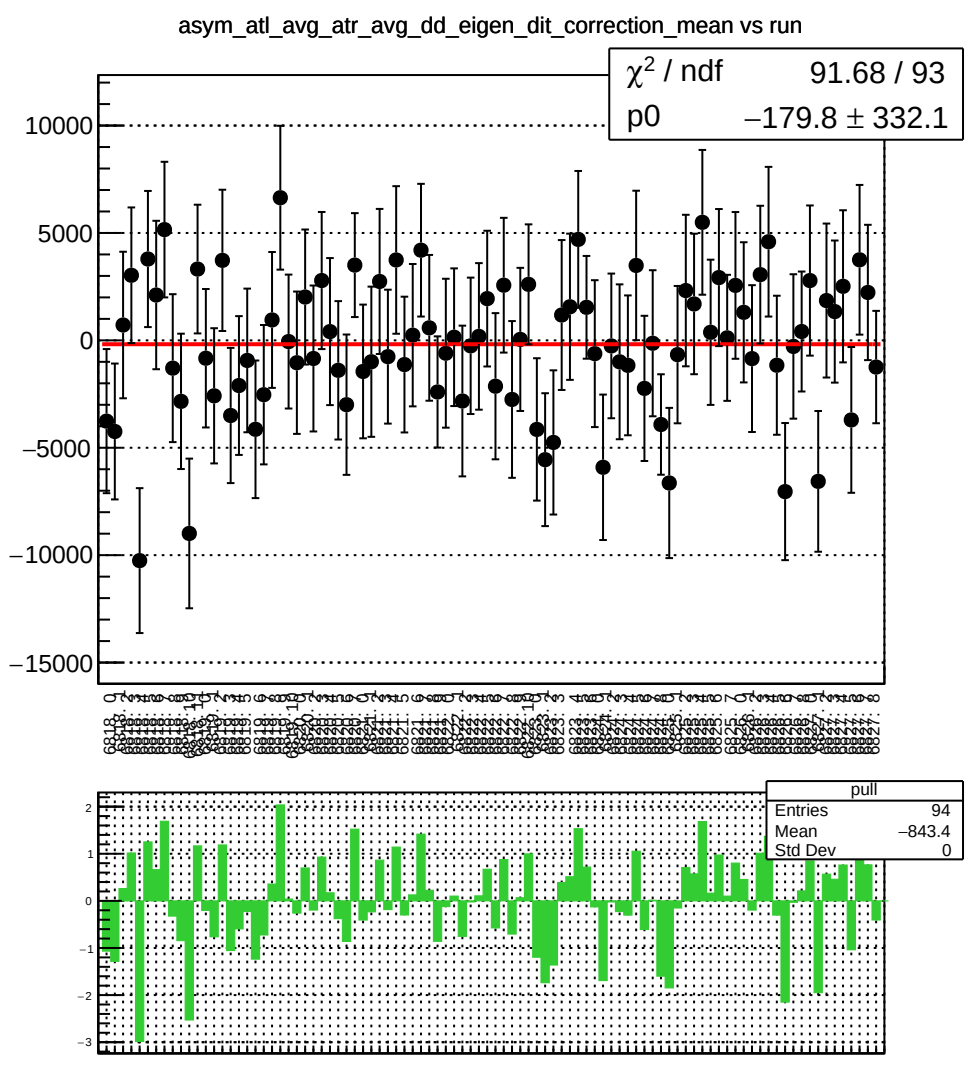

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 91.68 / 93
p0 −179.8 ± 332.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −843.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002643
Std Dev 0.9876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

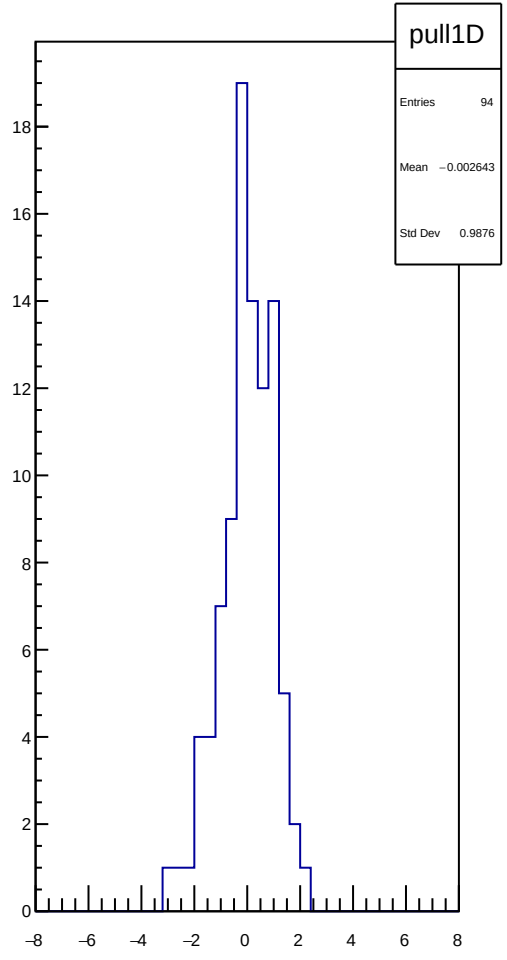

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3891 / 93
p0 314.3 ± 0.2348
400
380
360
340
320
300

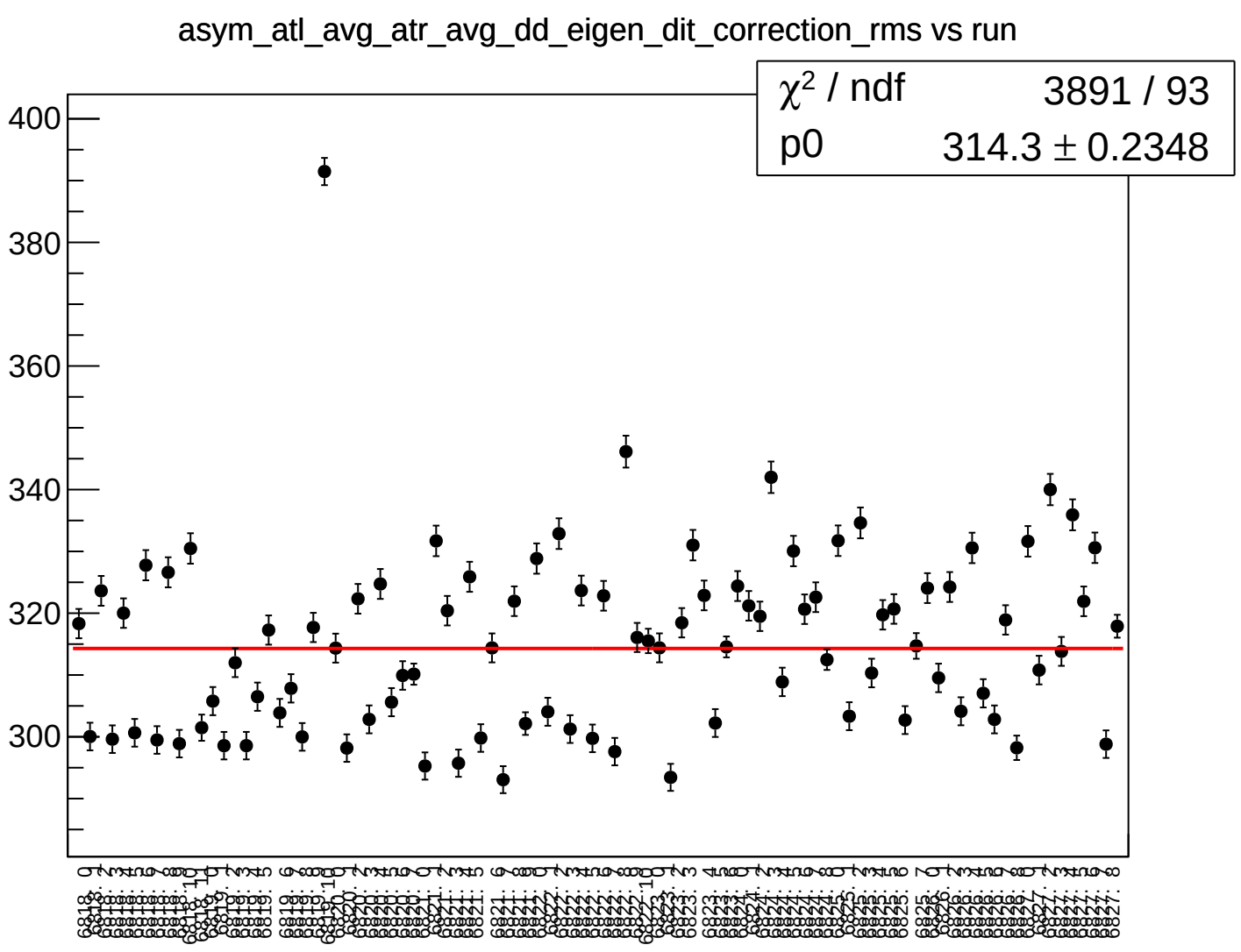

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.81 / 93
p0 −769.1± 1311
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

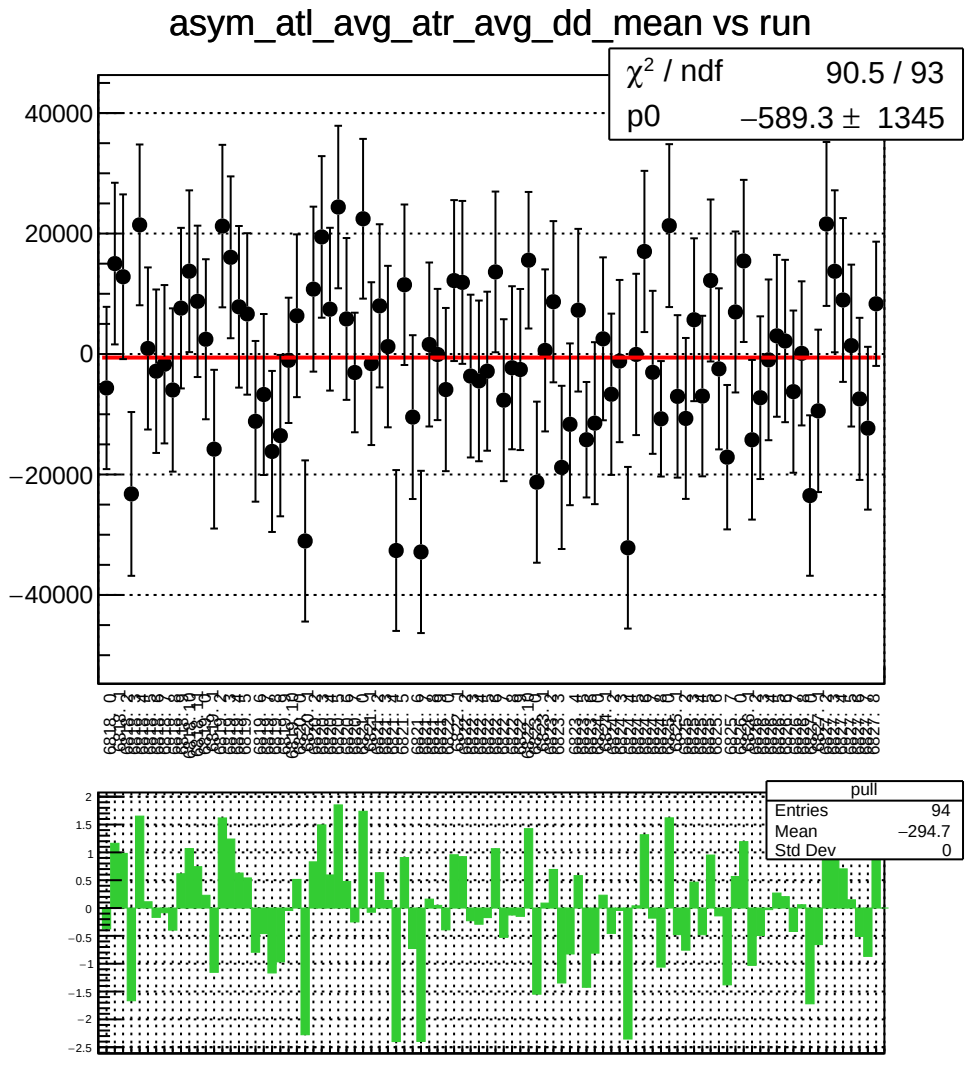

pull1D
Entries 94
Mean 0.00756
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

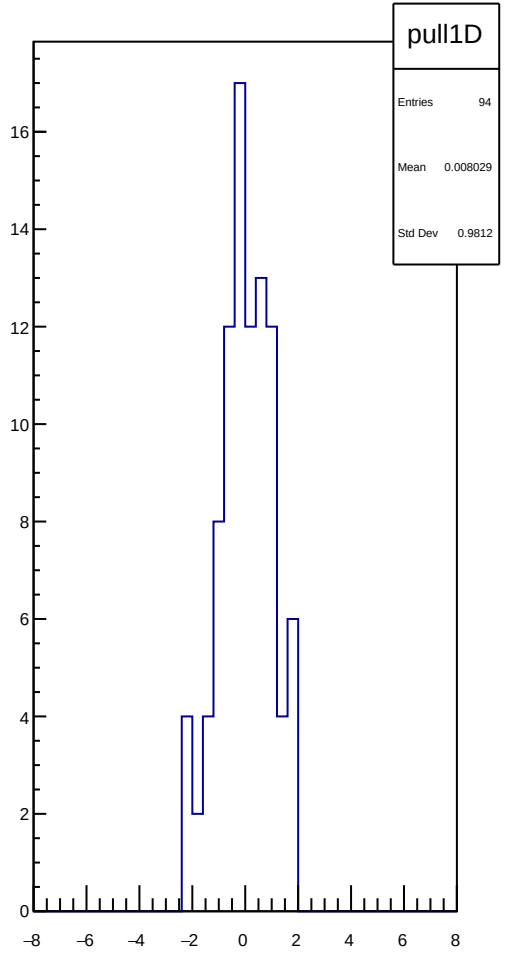

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 111.1 / 93
p0 1242 ± 0.9269
1270
1260
1250
1240
1230
1220
1210
1200

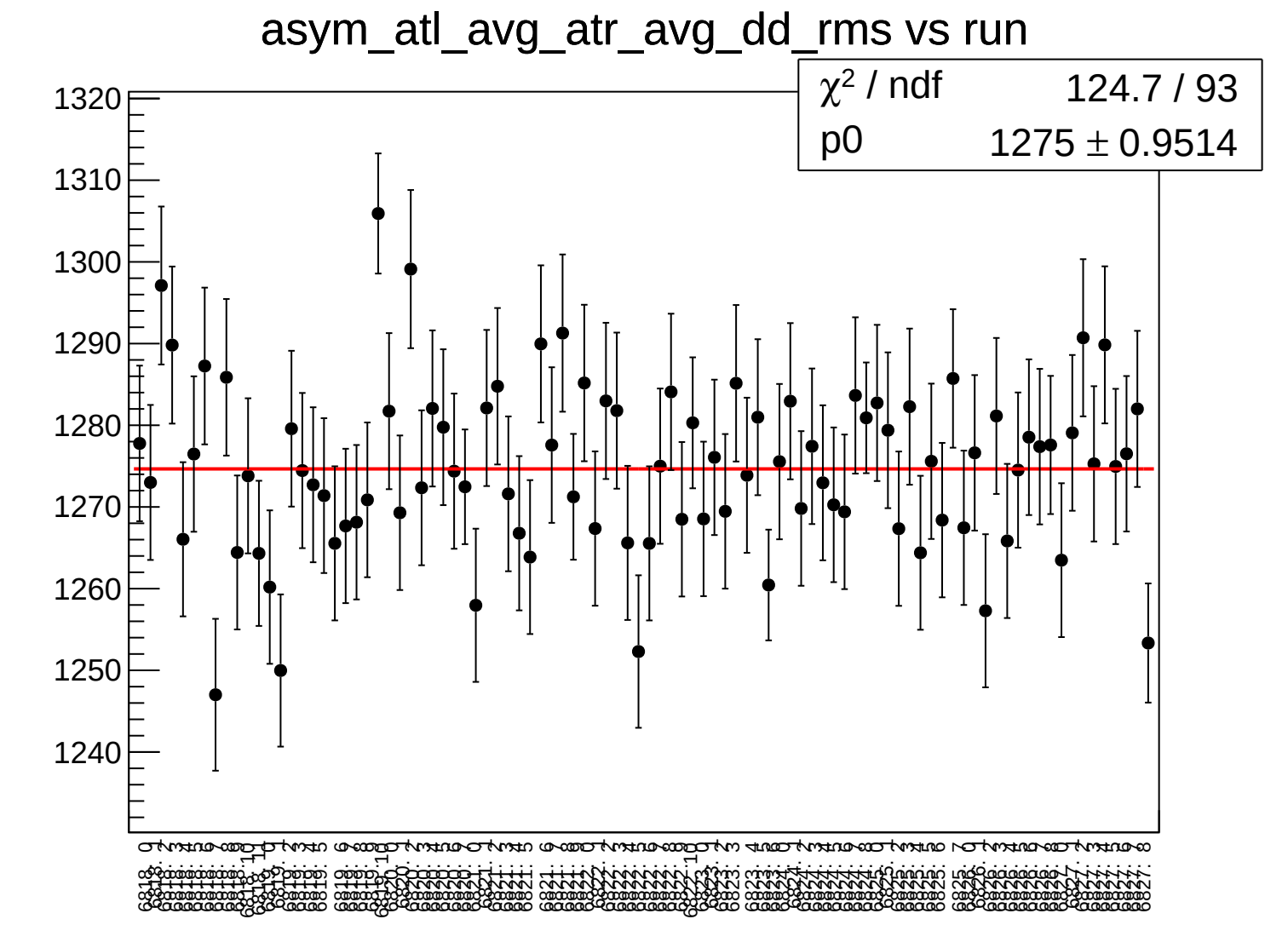

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 91.68 / 93
p0 −179.8 ± 332.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −843.4
Std Dev 0
2
1
0
−1
−2
−3

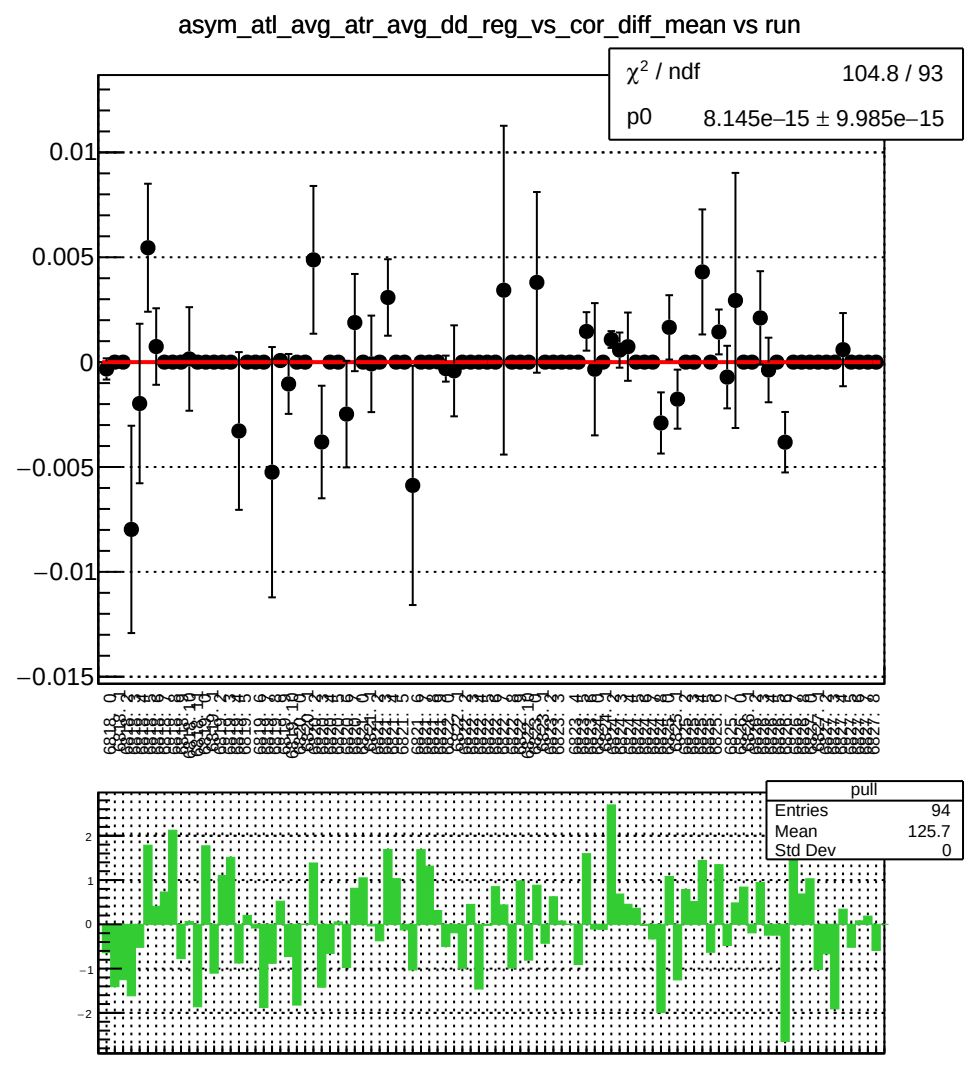

pull1D
Entries 94
Mean −0.002643
Std Dev 0.9876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

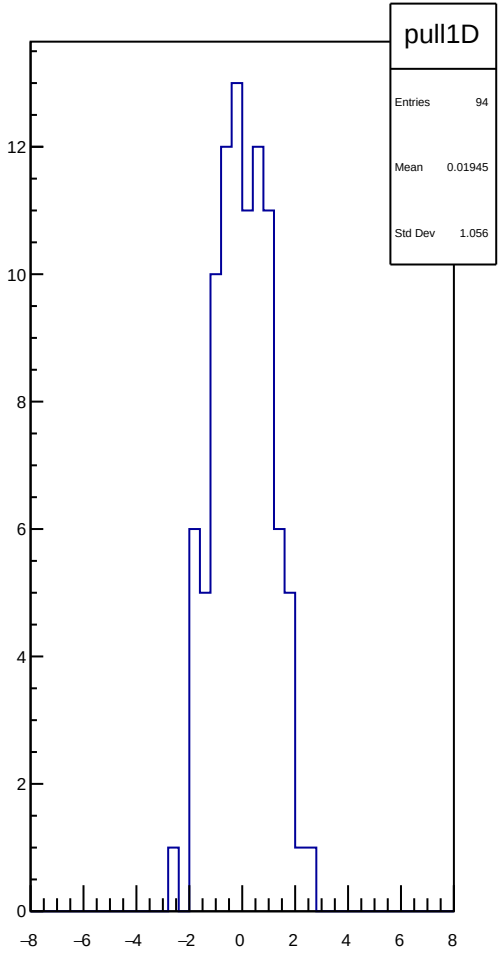

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3891 / 93
p0 314.3 ± 0.2348
400
380
360
340
320
300

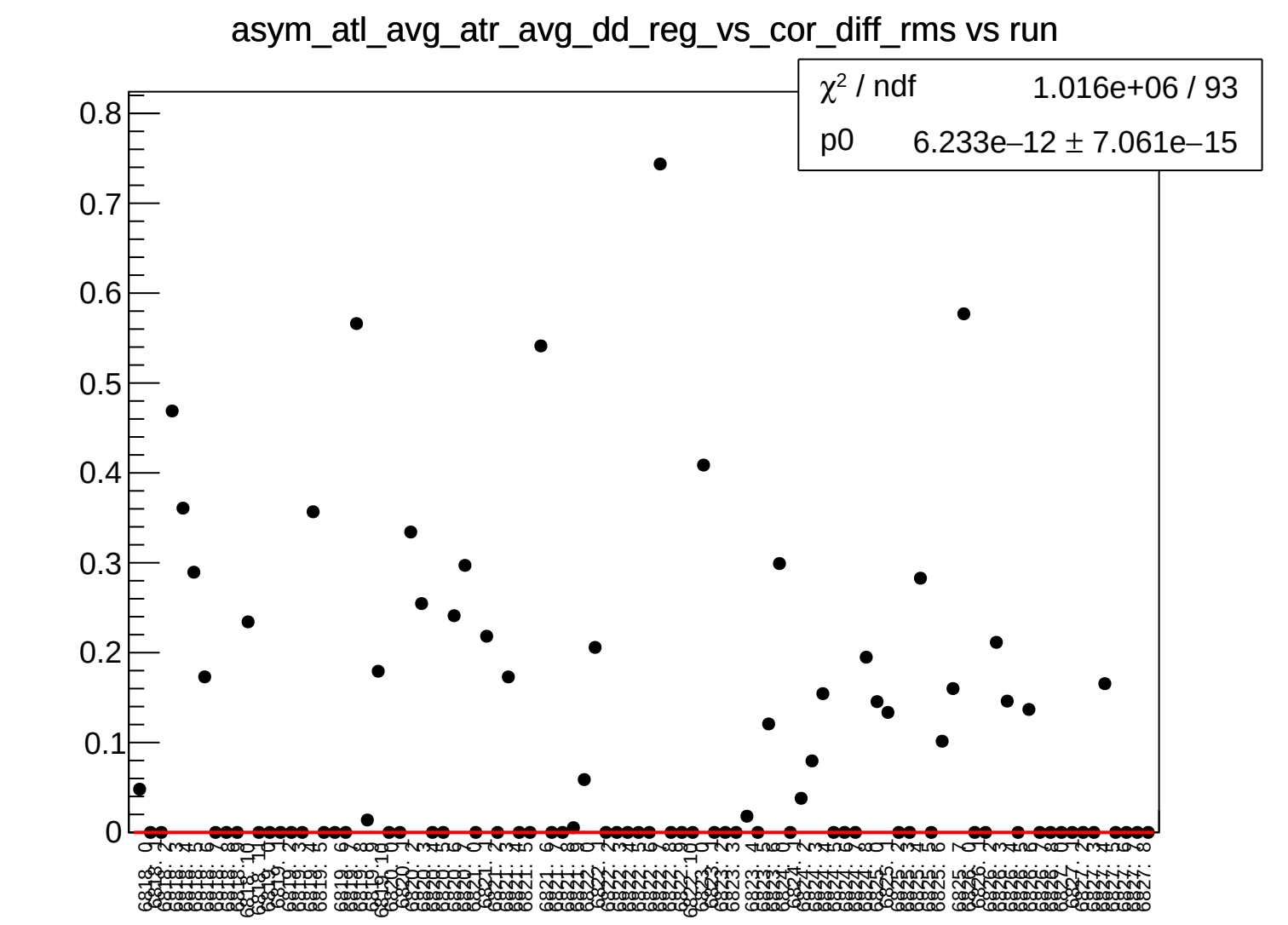

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 90.5 / 93
p0 −589.3 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −294.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

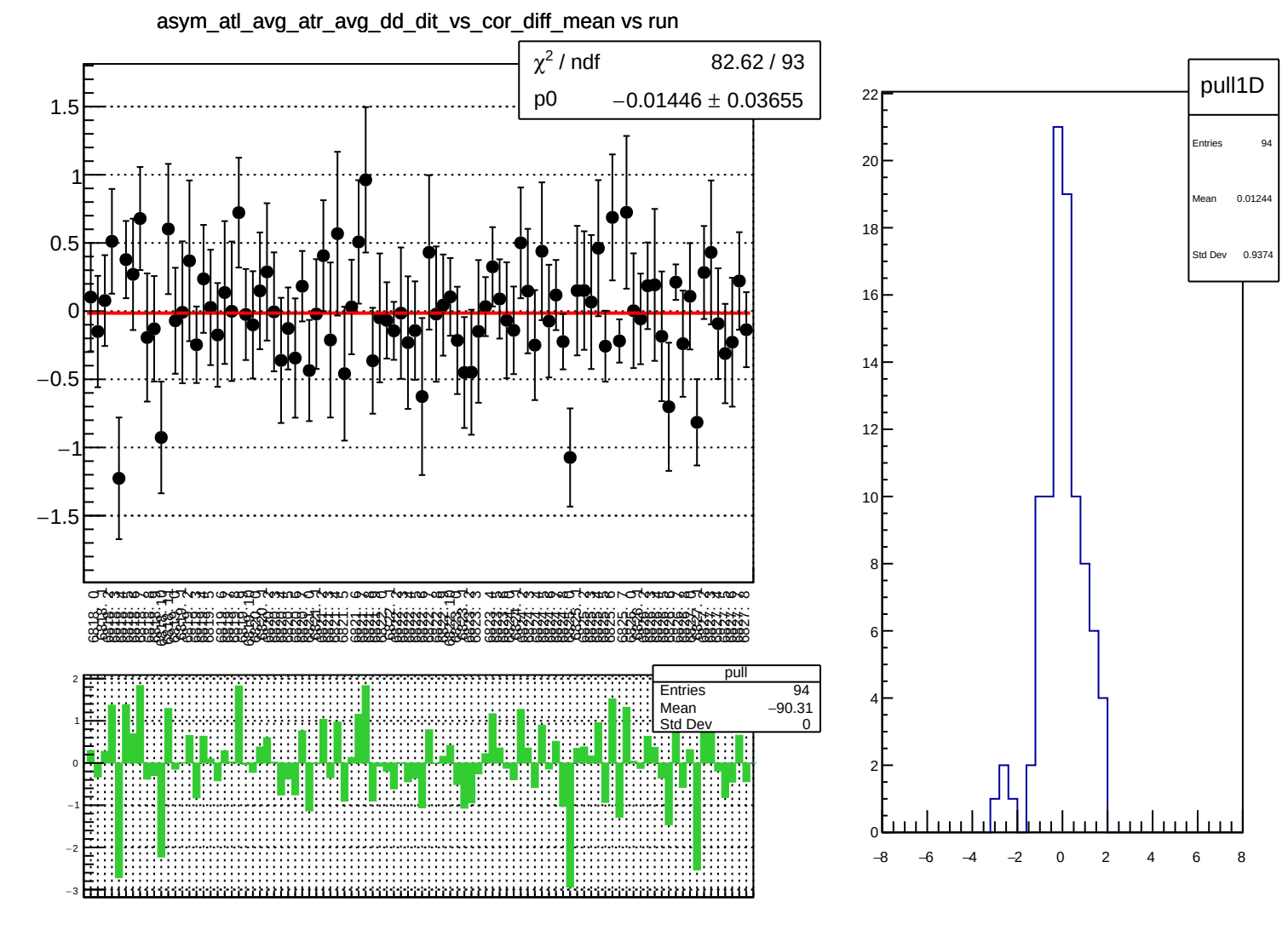

pull1D
Entries 94
Mean 0.008029
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

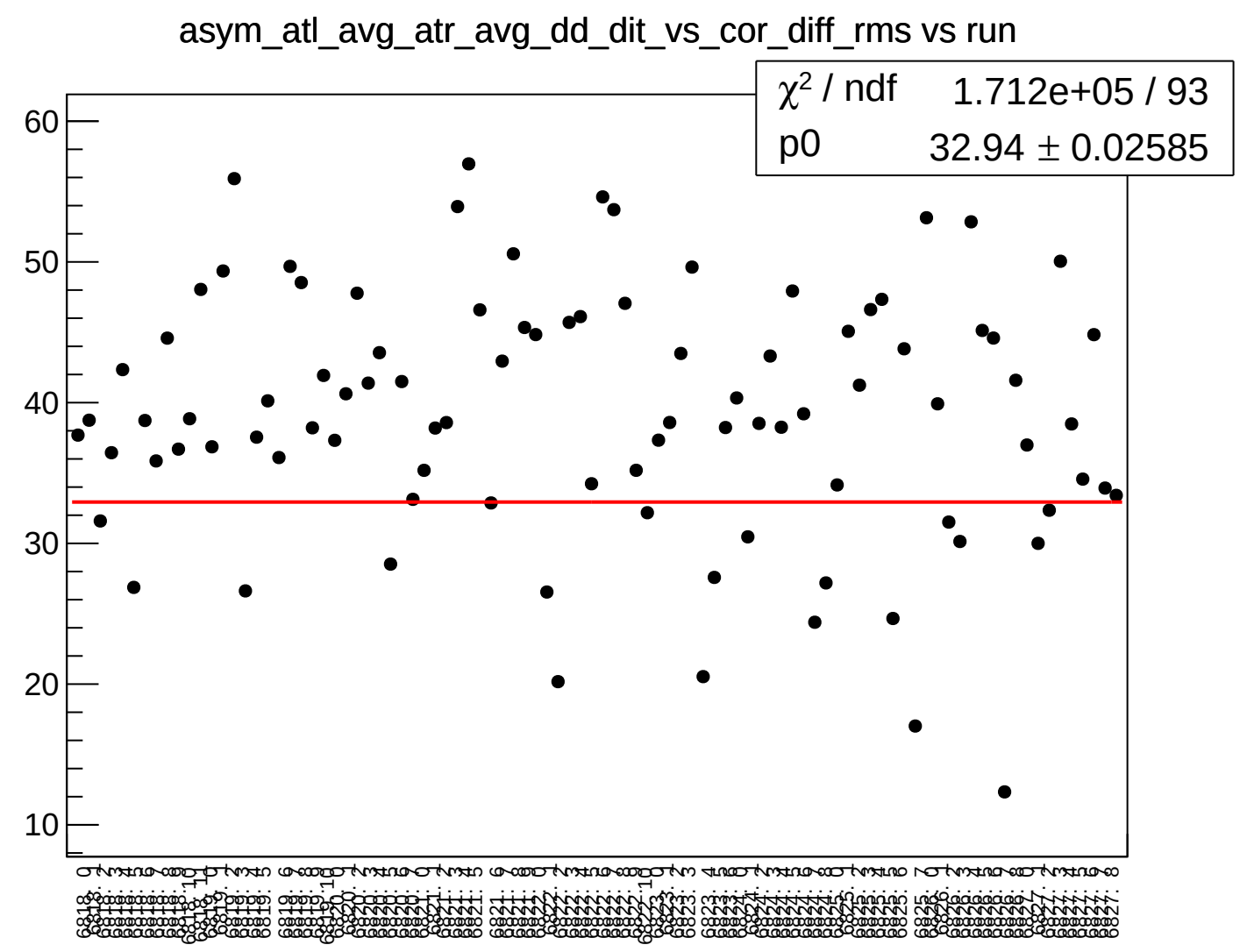

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 124.7 / 93
p0 1275 ± 0.9514
1320
1310
1300
1290
1280
1270
1260
1250
1240

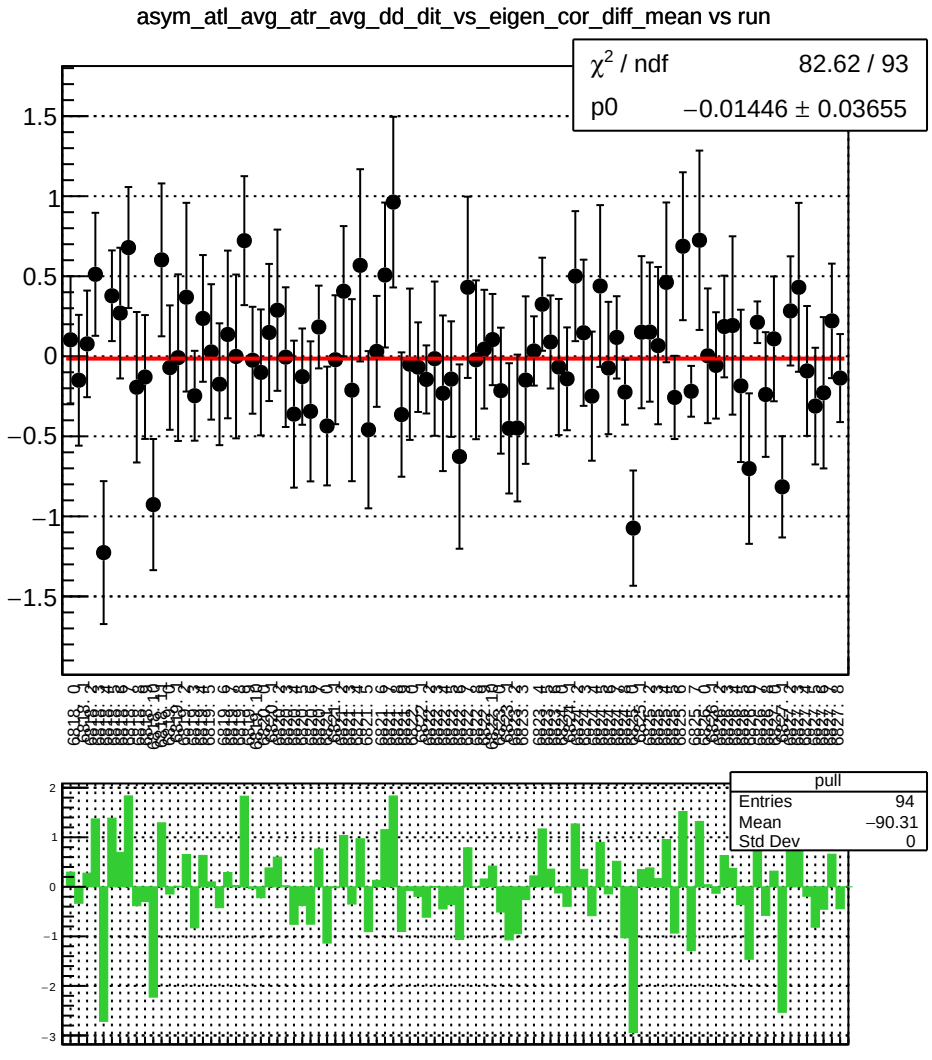

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 93
p0 8.145e−15 ± 9.985e−15
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 125.7
Std Dev 0
2
1
0
−1
−2

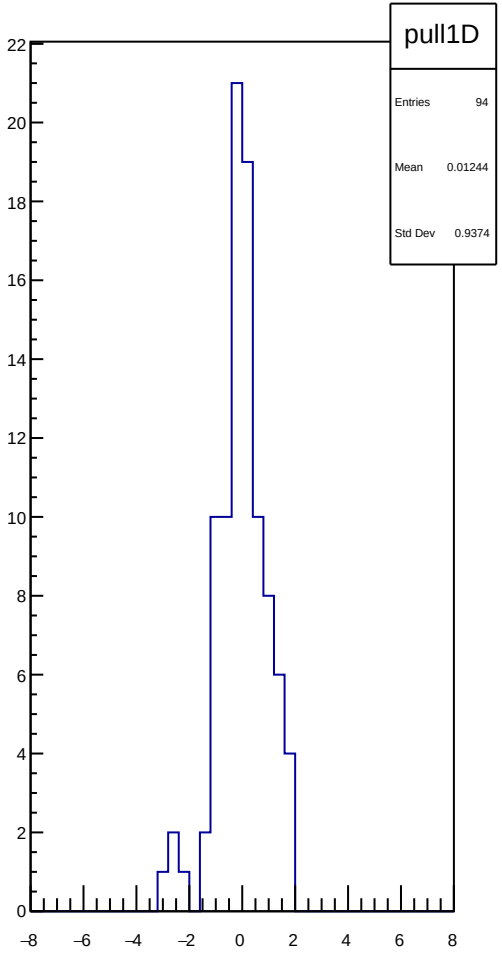

pull1D
Entries 94
Mean 0.01945
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

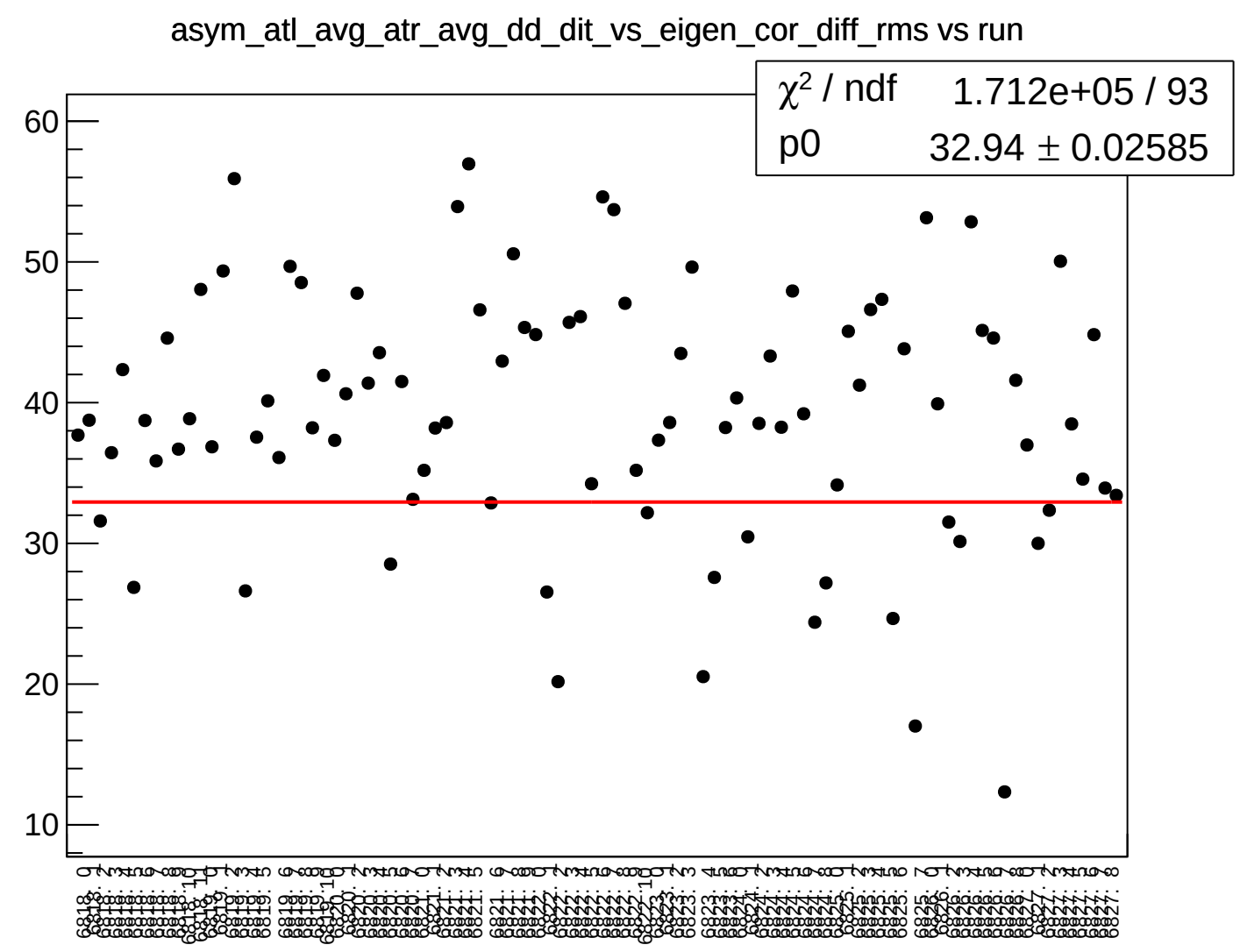

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 93
p0 6.233e−12 ± 7.061e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

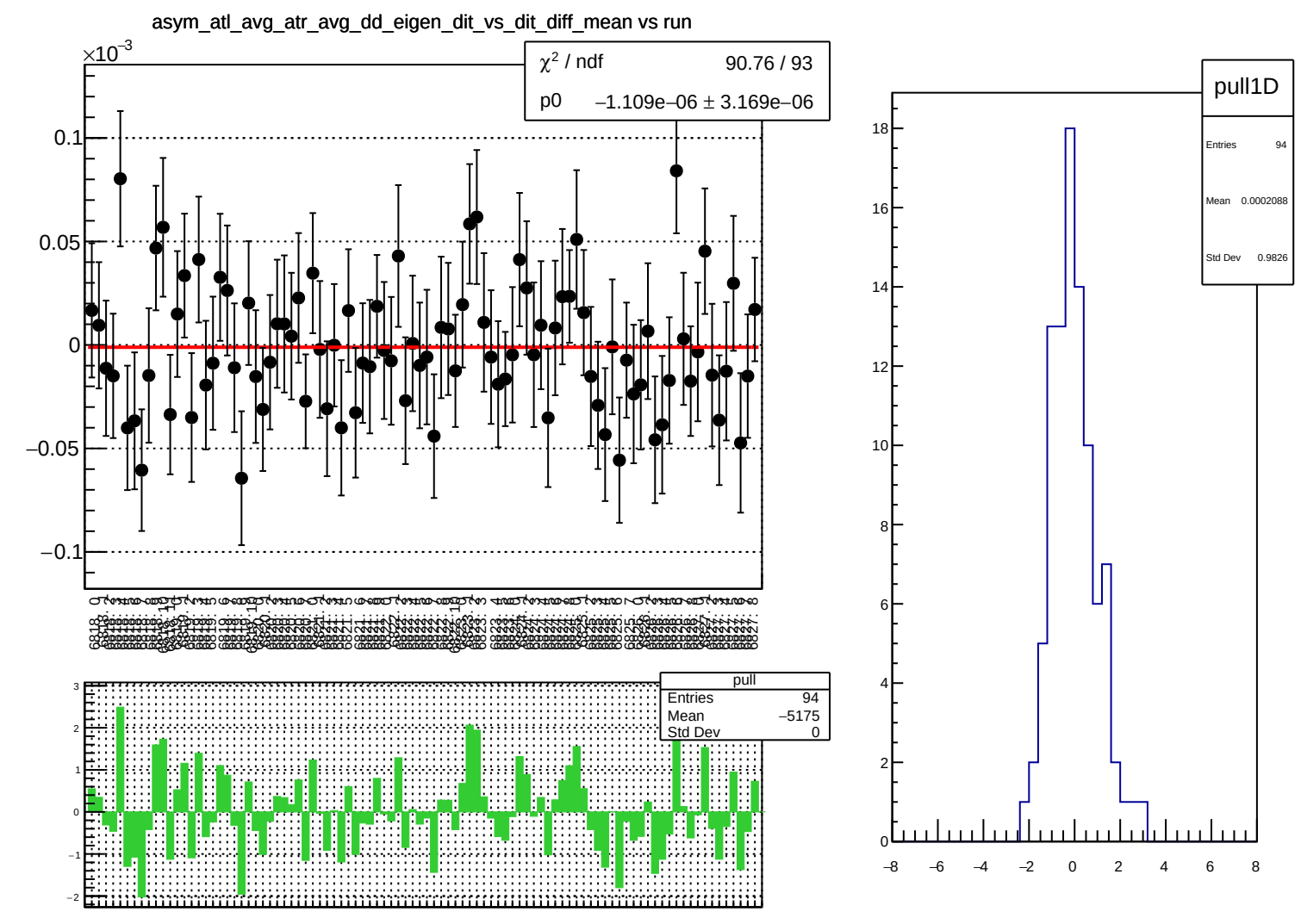

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.62 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.31
Std Dev 0
pull1D
Entries 94
Mean 0.01244
Std Dev 0.9374

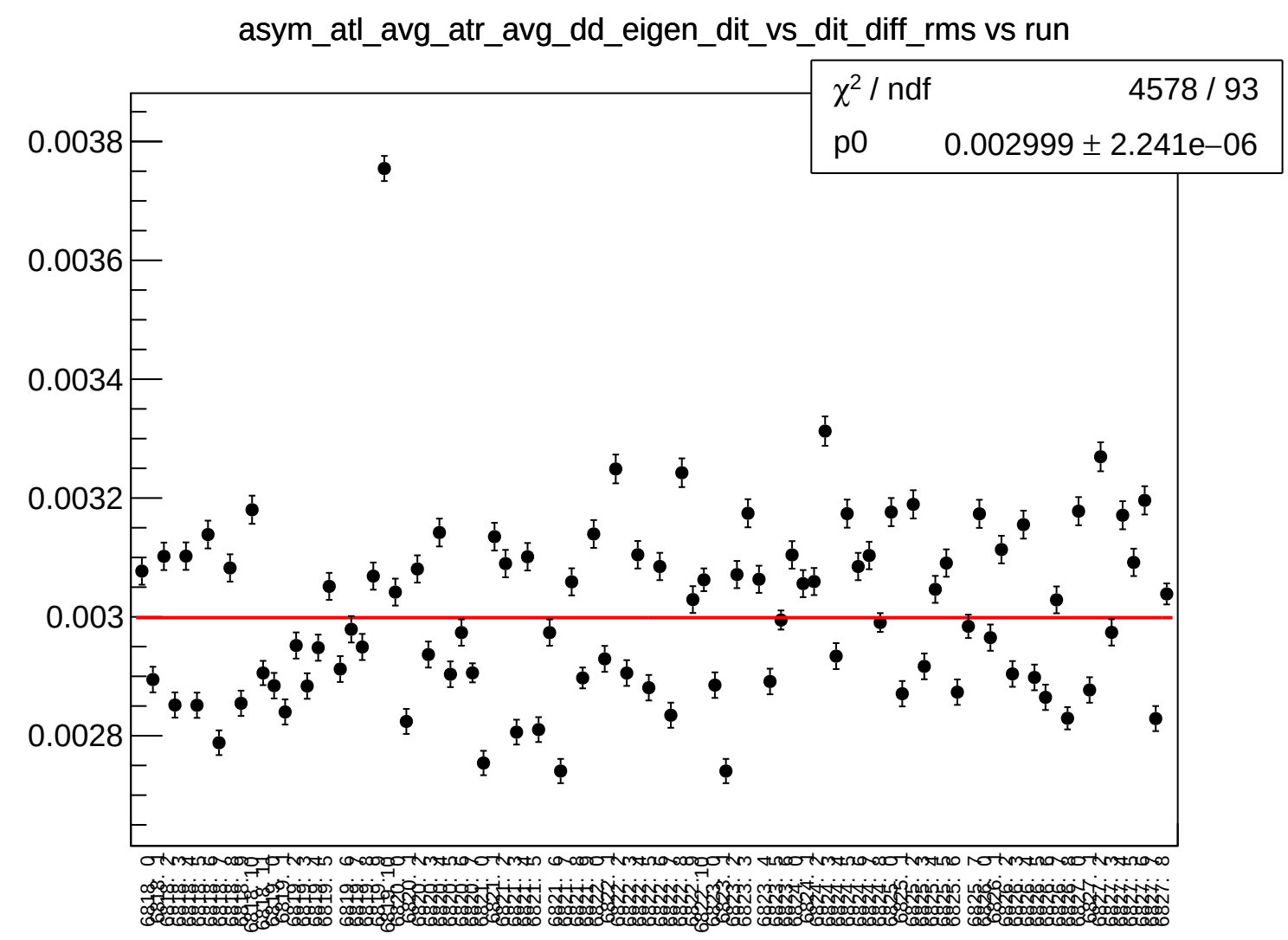

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

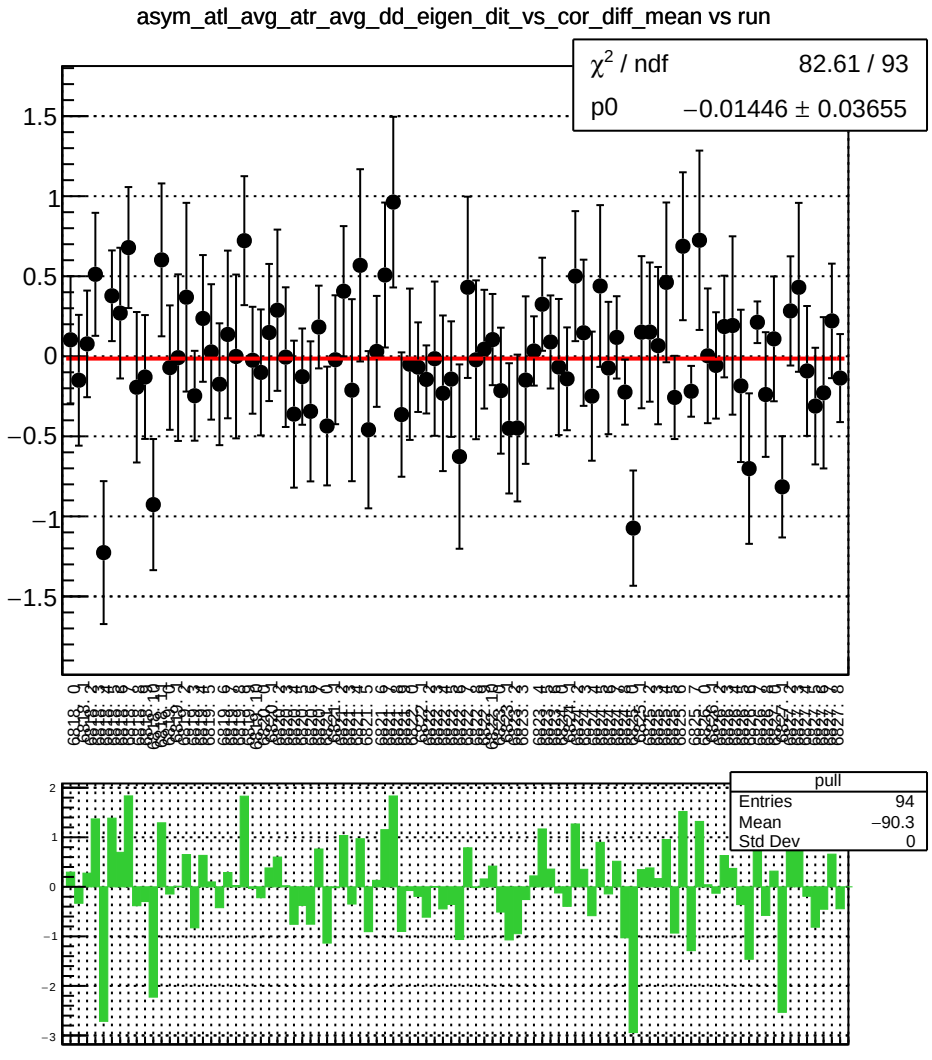

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.62 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.31
Std Dev 0

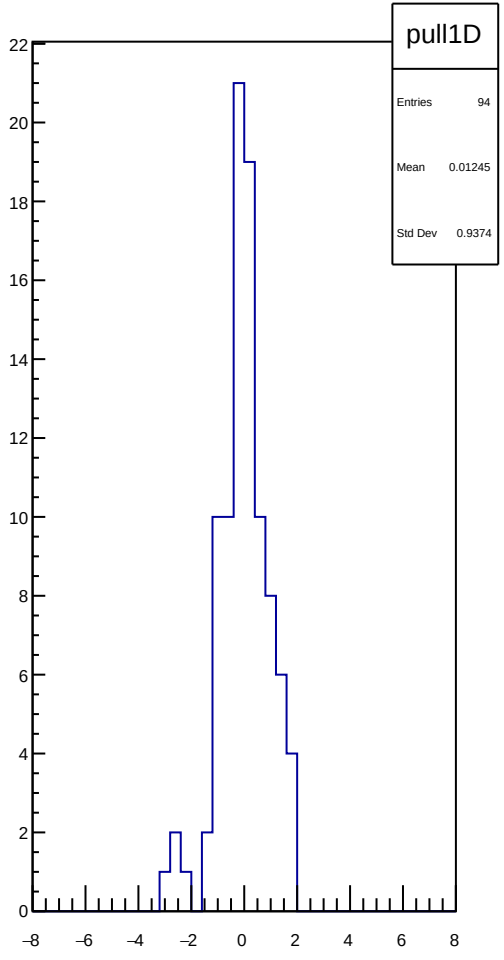

pull1D
Entries 94
Mean 0.01244
Std Dev 0.9374

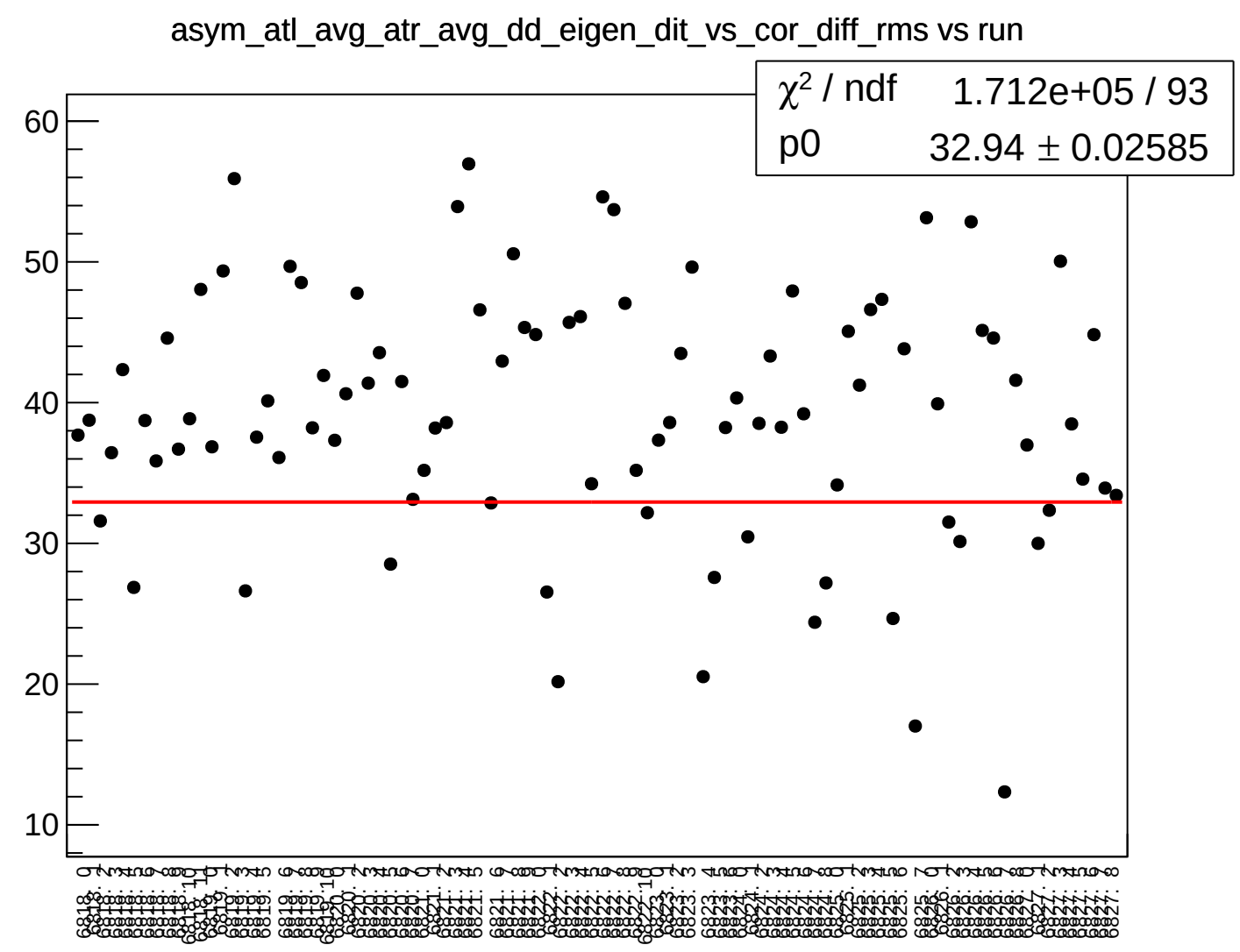

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

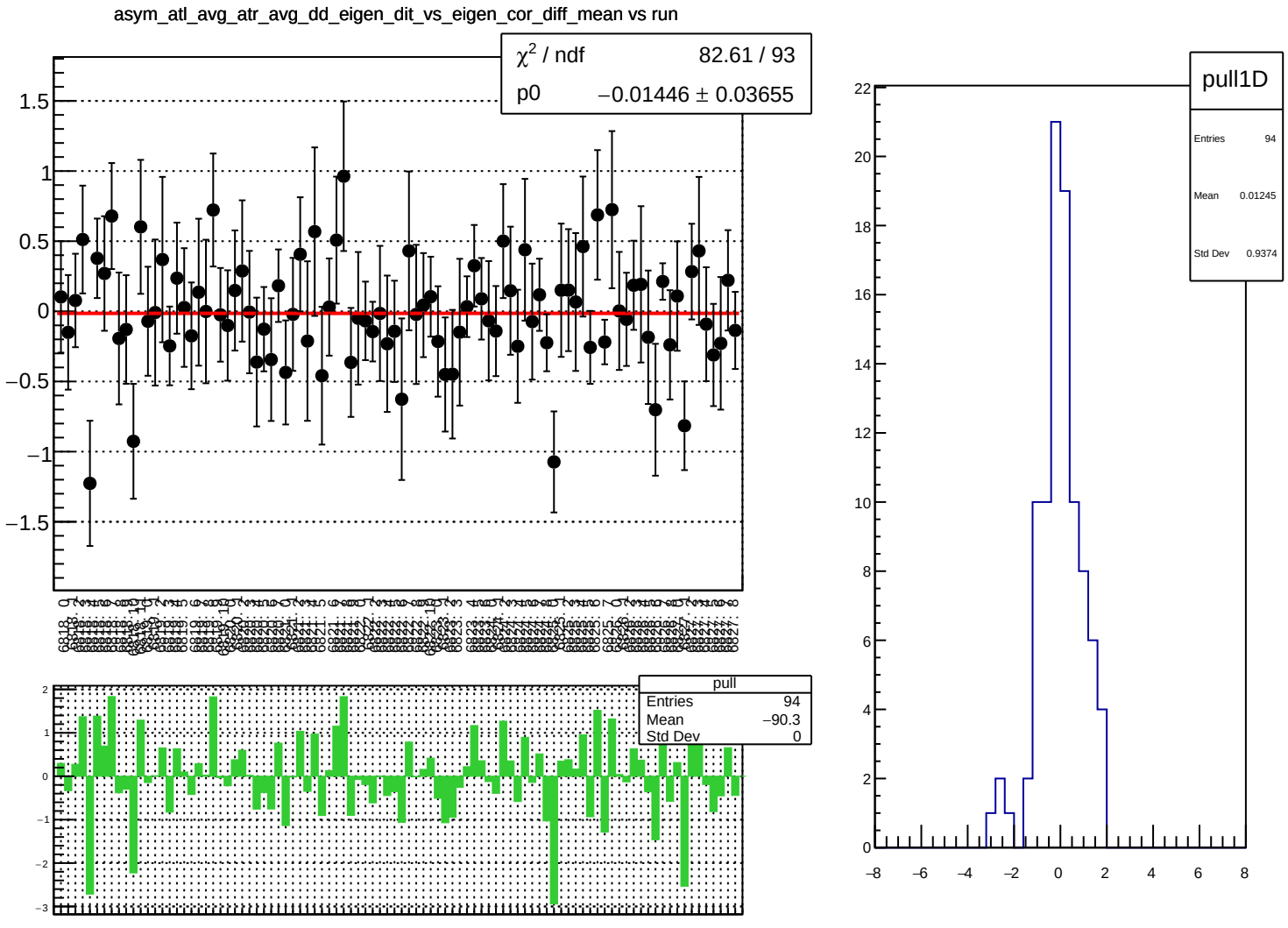

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.76 / 93
p0 −1.109e−06 ± 3.169e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −5175
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.0002088
Std Dev 0.9826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

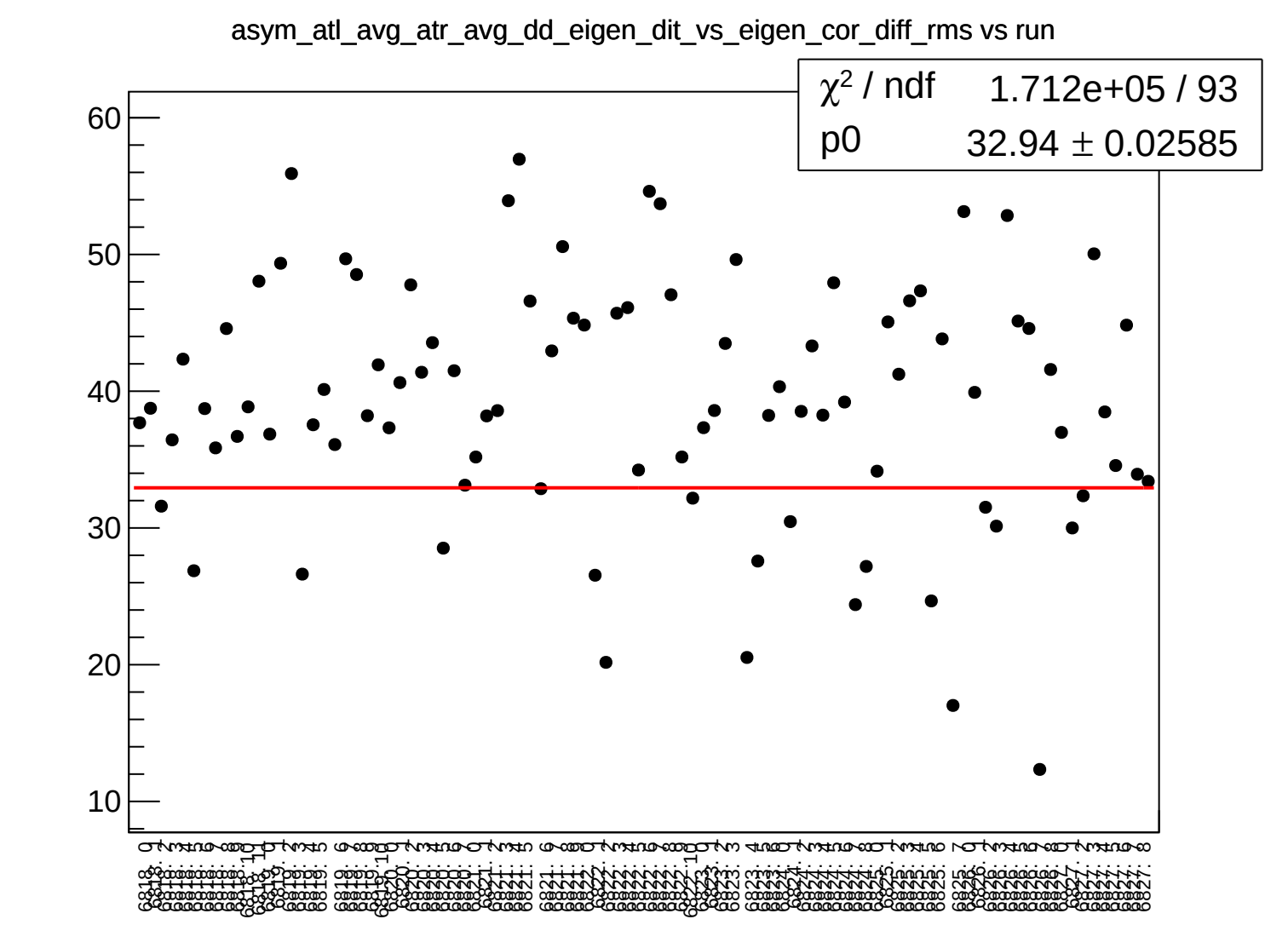

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4578 / 93
p0 0.002999 ± 2.241e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

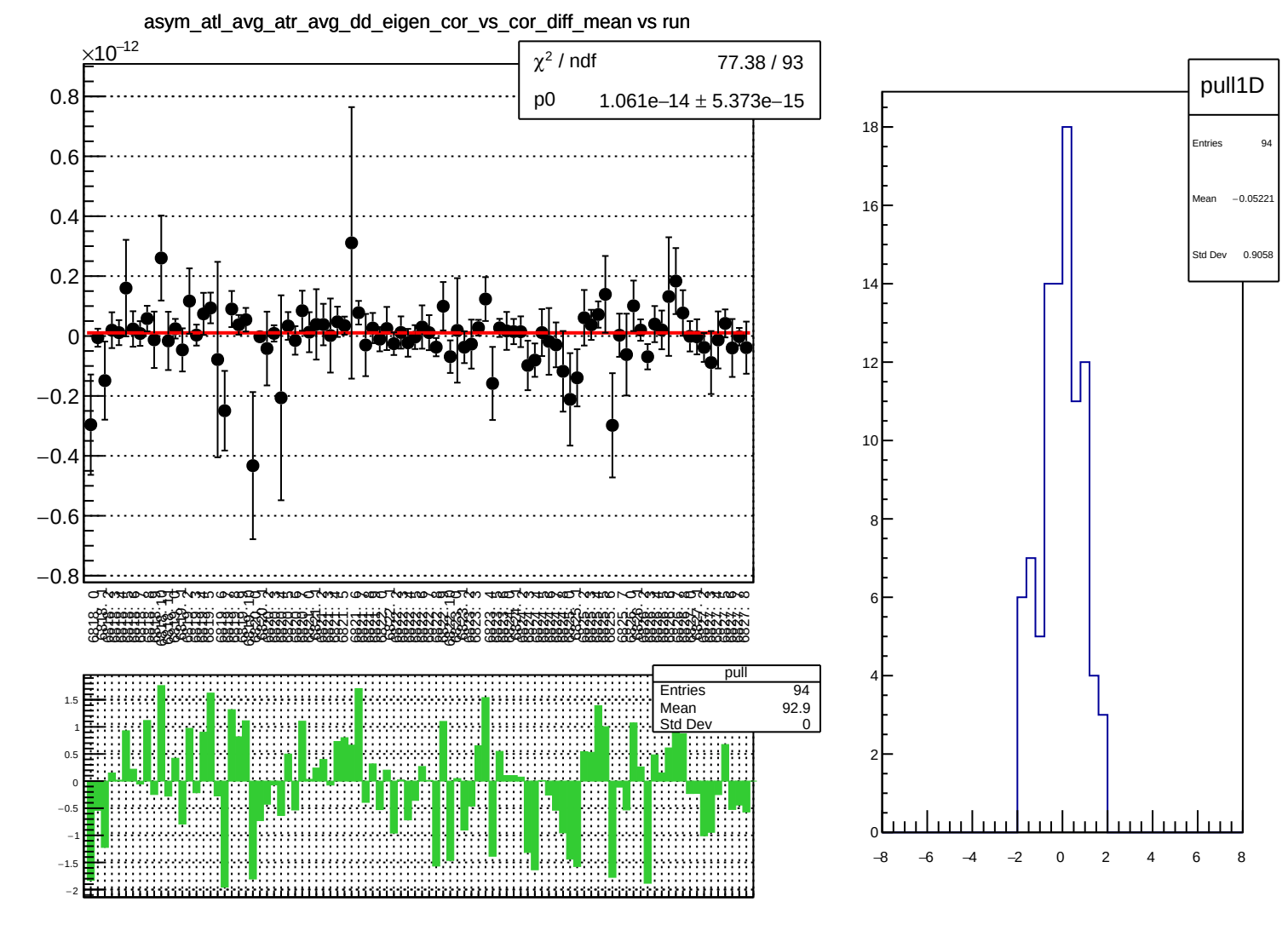

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.3
Std Dev 0

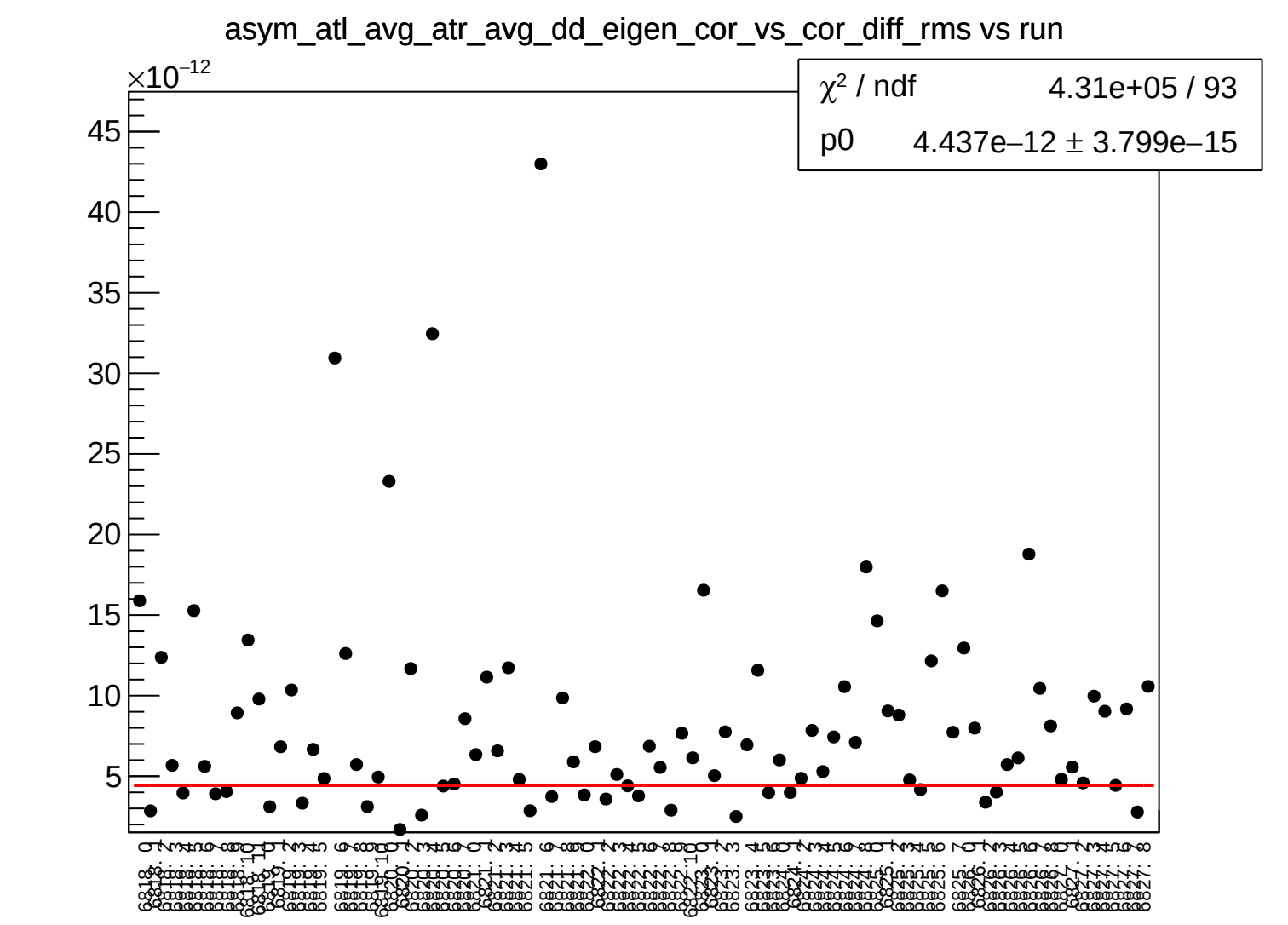

pull1D
Entries 94
Mean 0.01245
Std Dev 0.9374

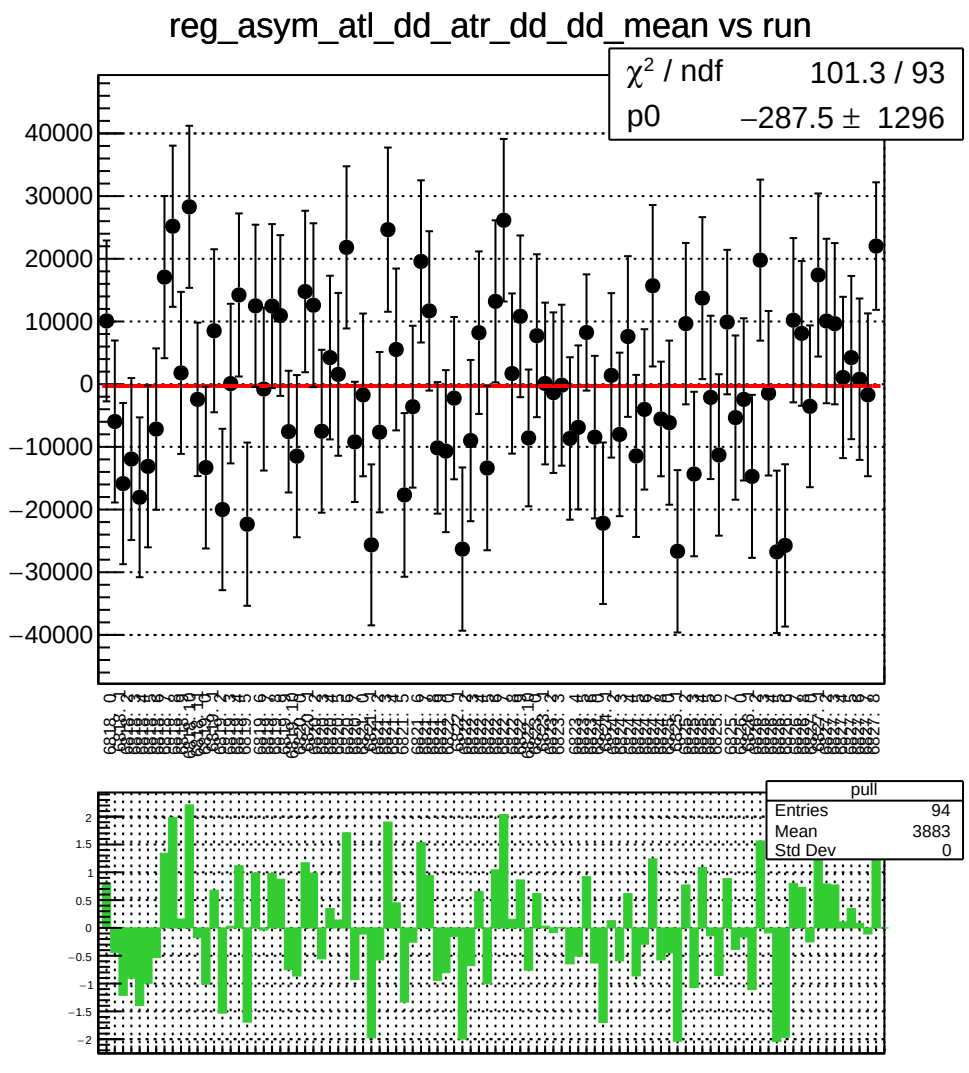

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

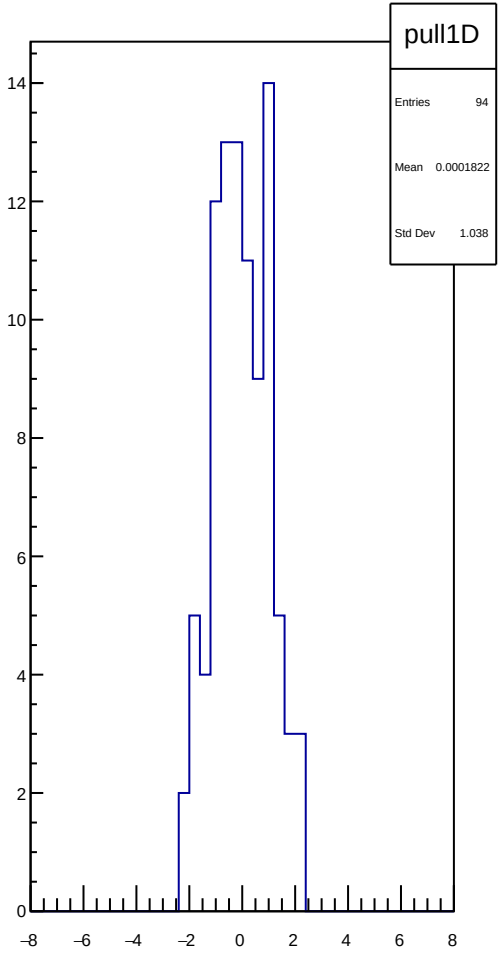

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.3
Std Dev 0
pull1D
Entries 94
Mean 0.01245
Std Dev 0.9374

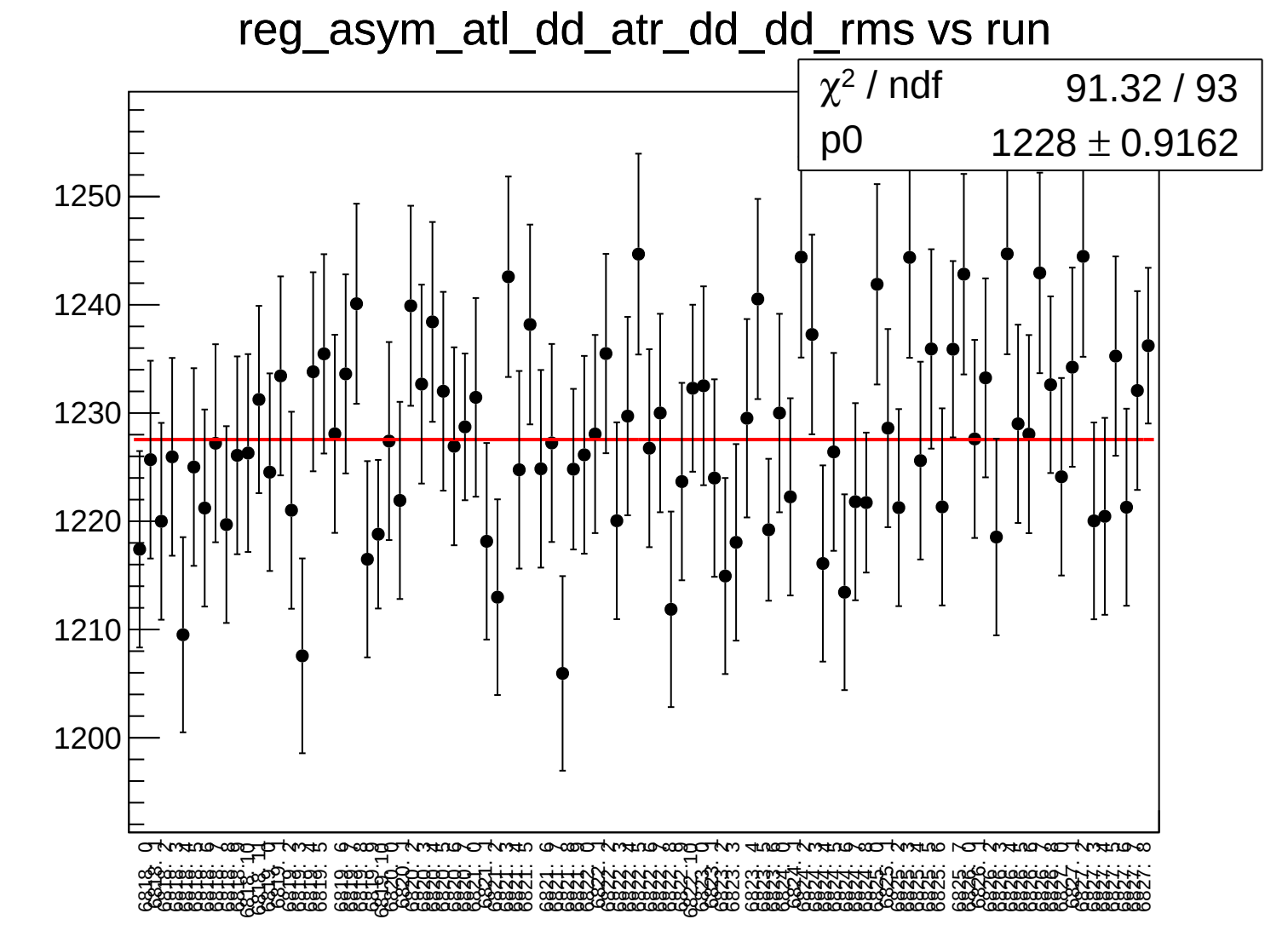

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

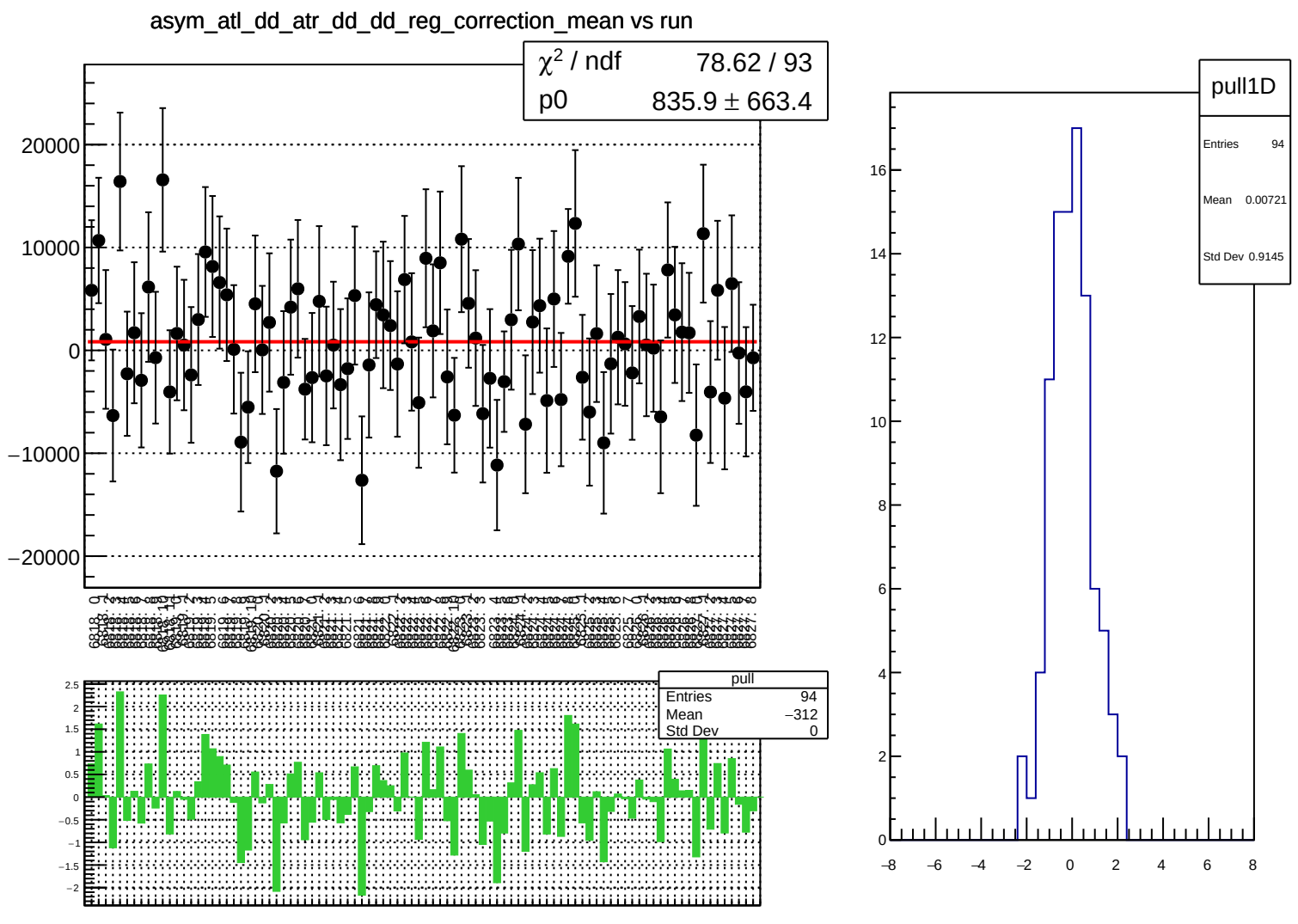

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.38 / 93
p0 1.061e−14 ± 5.373e−15
pull
Entries 94
Mean 92.9
Std Dev 0
pull1D
Entries 94
Mean −0.05221
Std Dev 0.9058

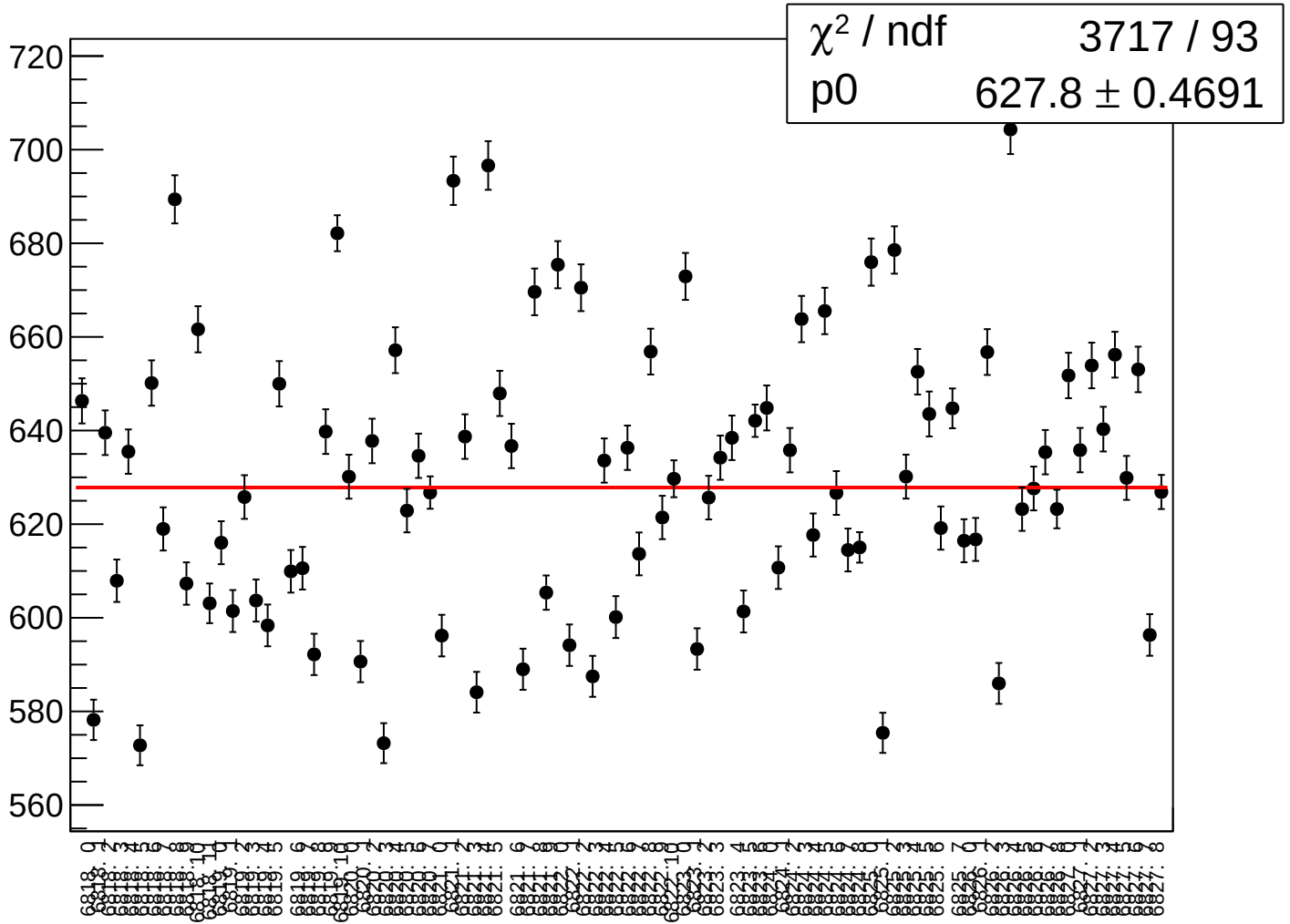

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.31e+05 / 93
p0 4.437e−12 ± 3.799e−15
45
40
35
30
25
20
15
10
5

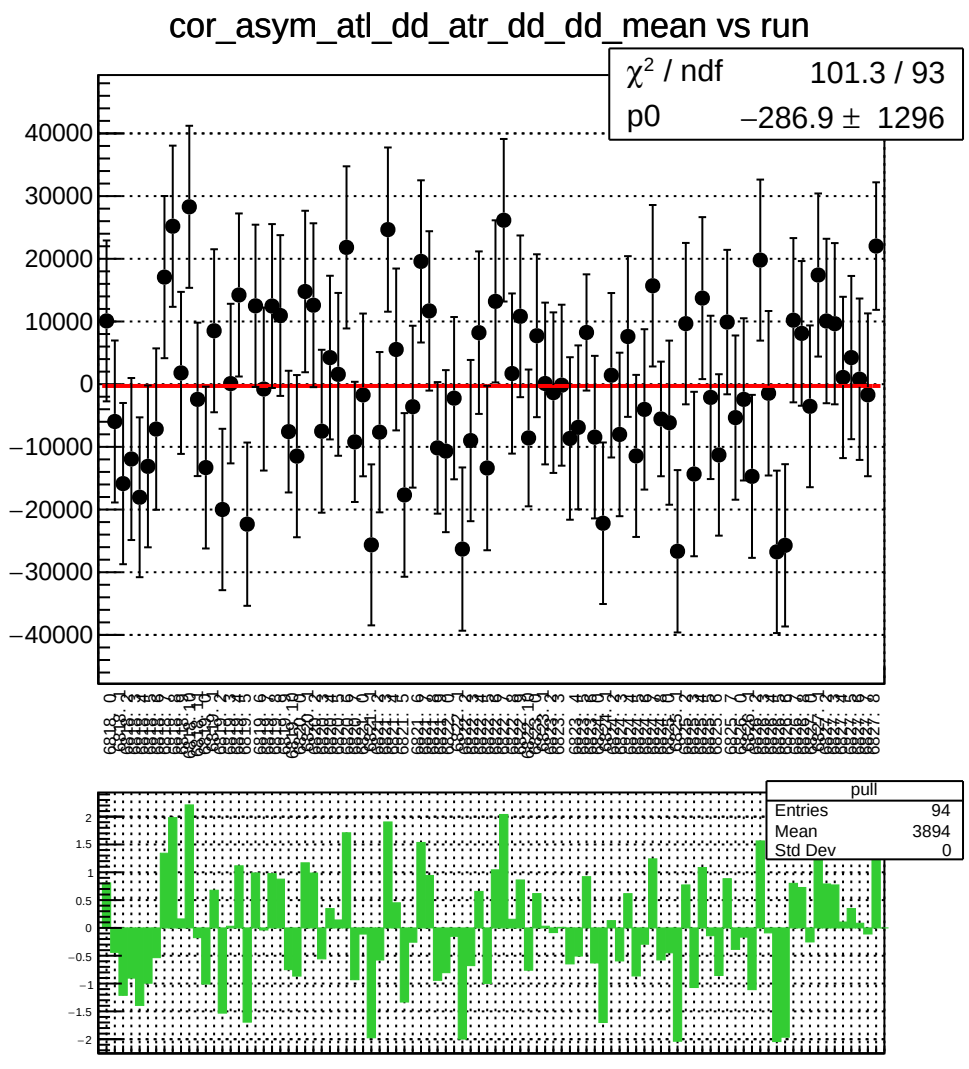

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.3 / 93
p0 −287.5 ± 1296
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 3883
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

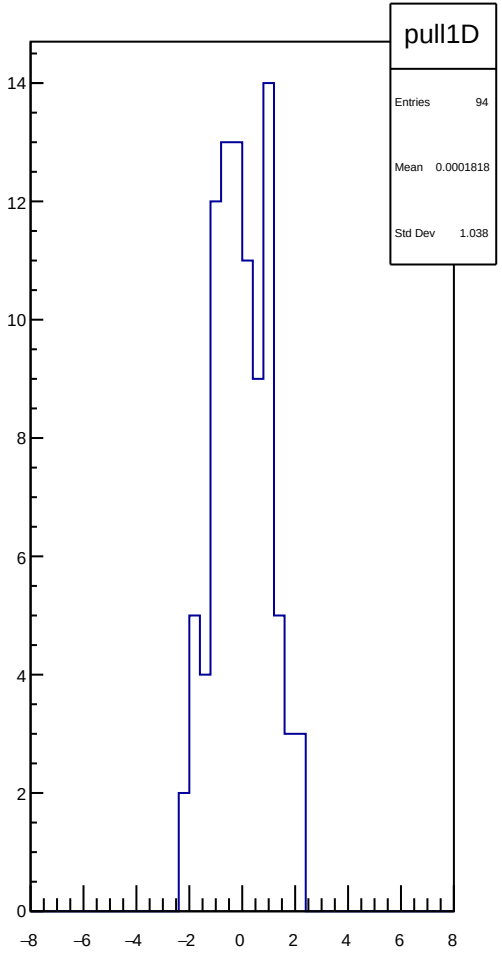

pull1D
Entries 94
Mean 0.0001822
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

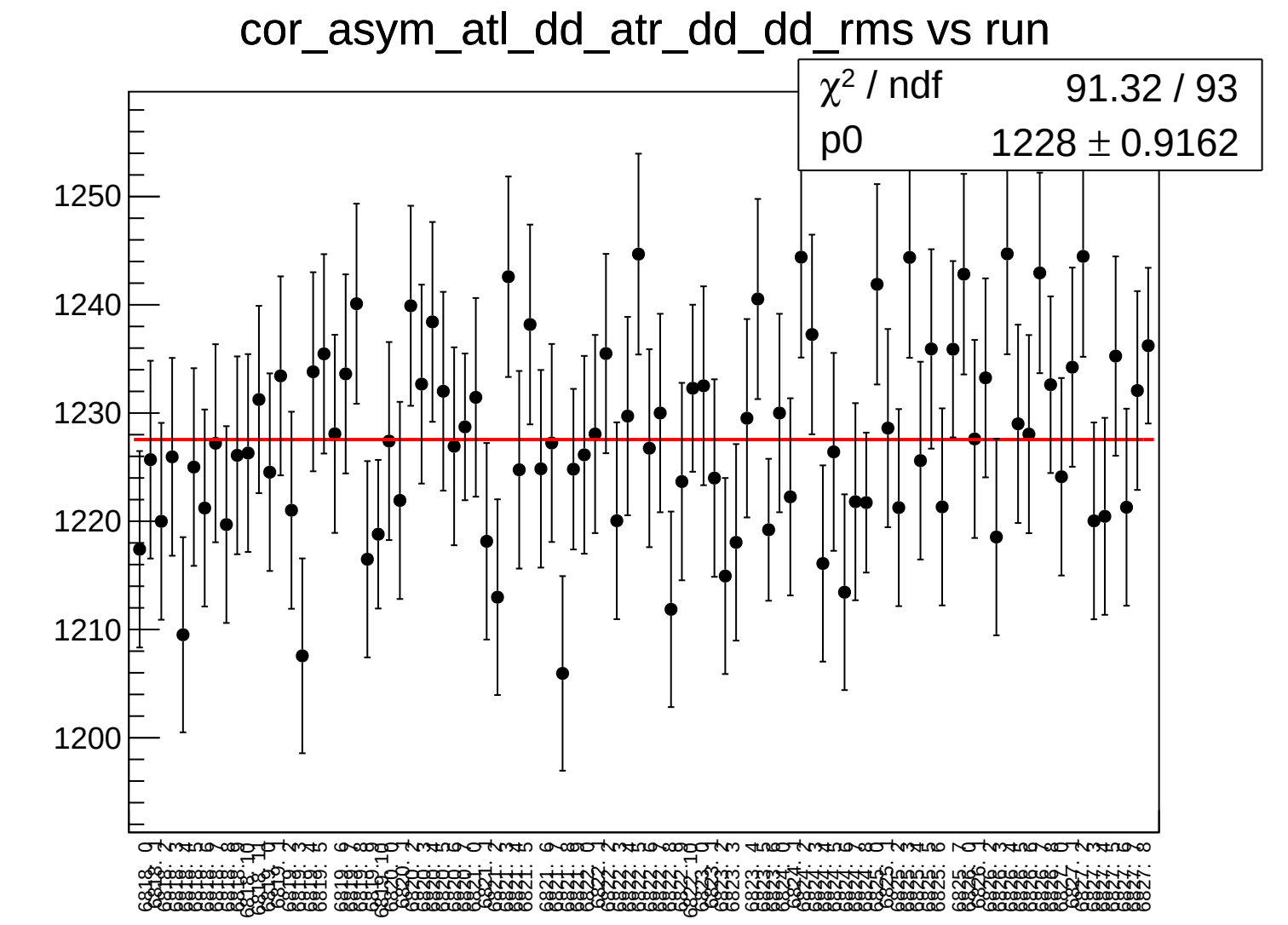

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

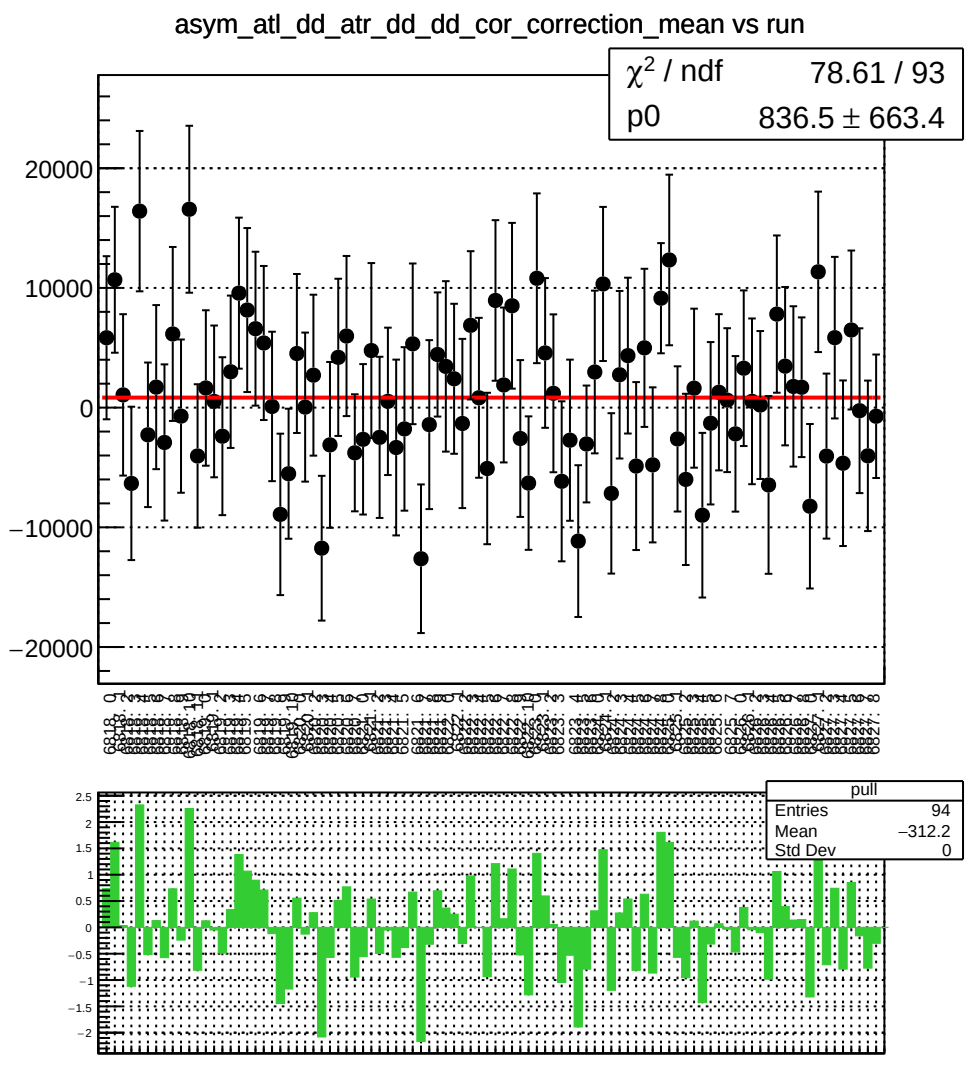

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 78.62 / 93
p0 835.9 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.00721
Std Dev 0.9145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

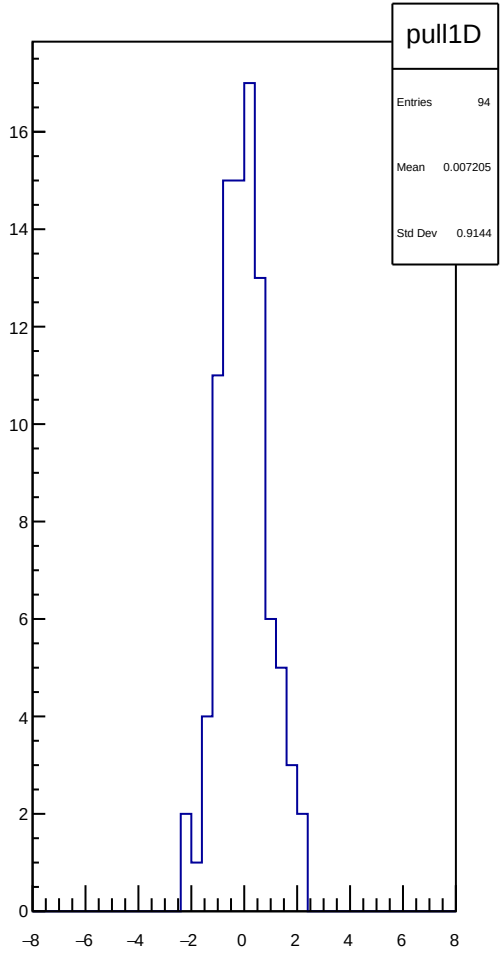

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 3717 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

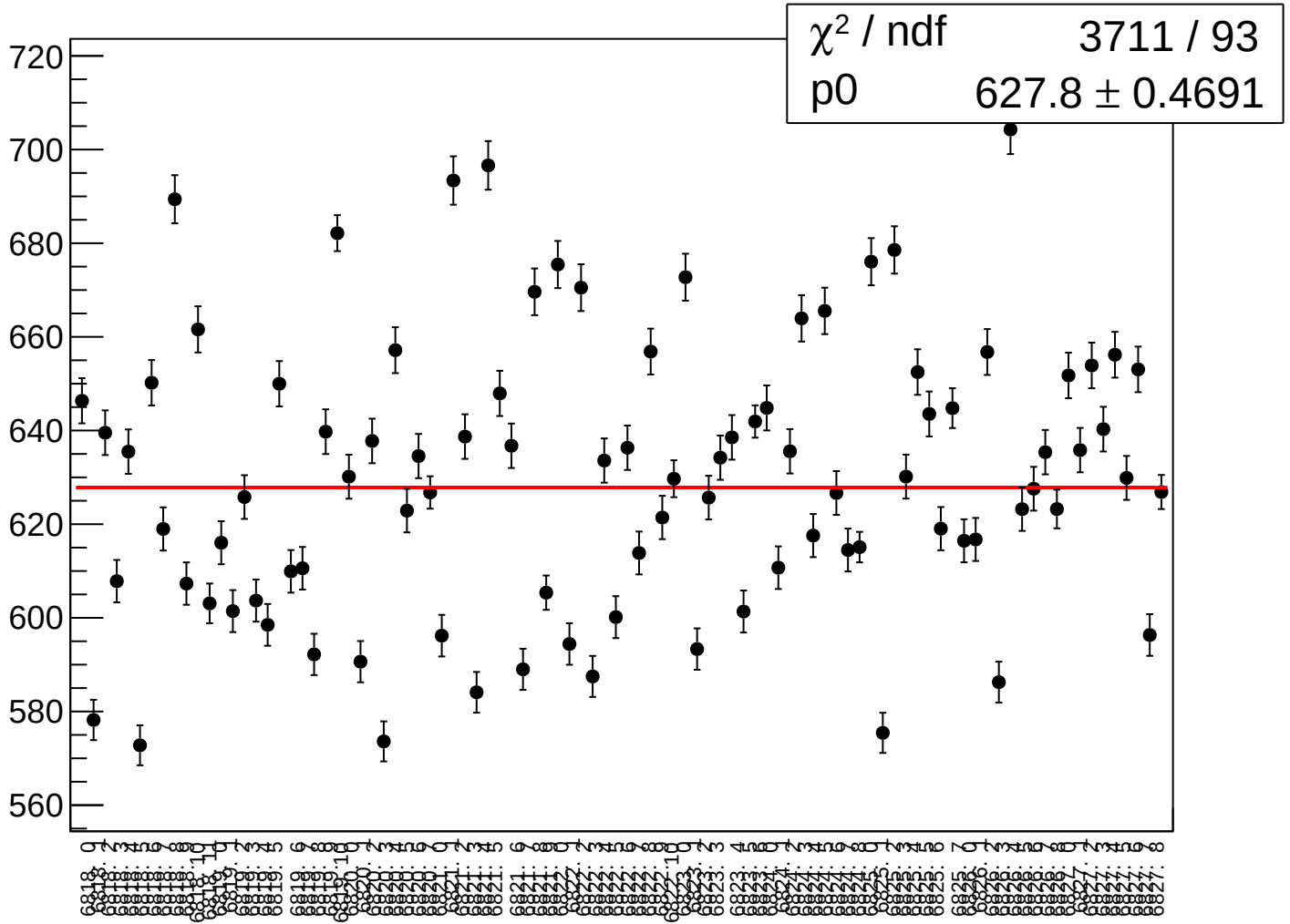

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.3 / 93
p0 −286.9 ± 1296
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 3894
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

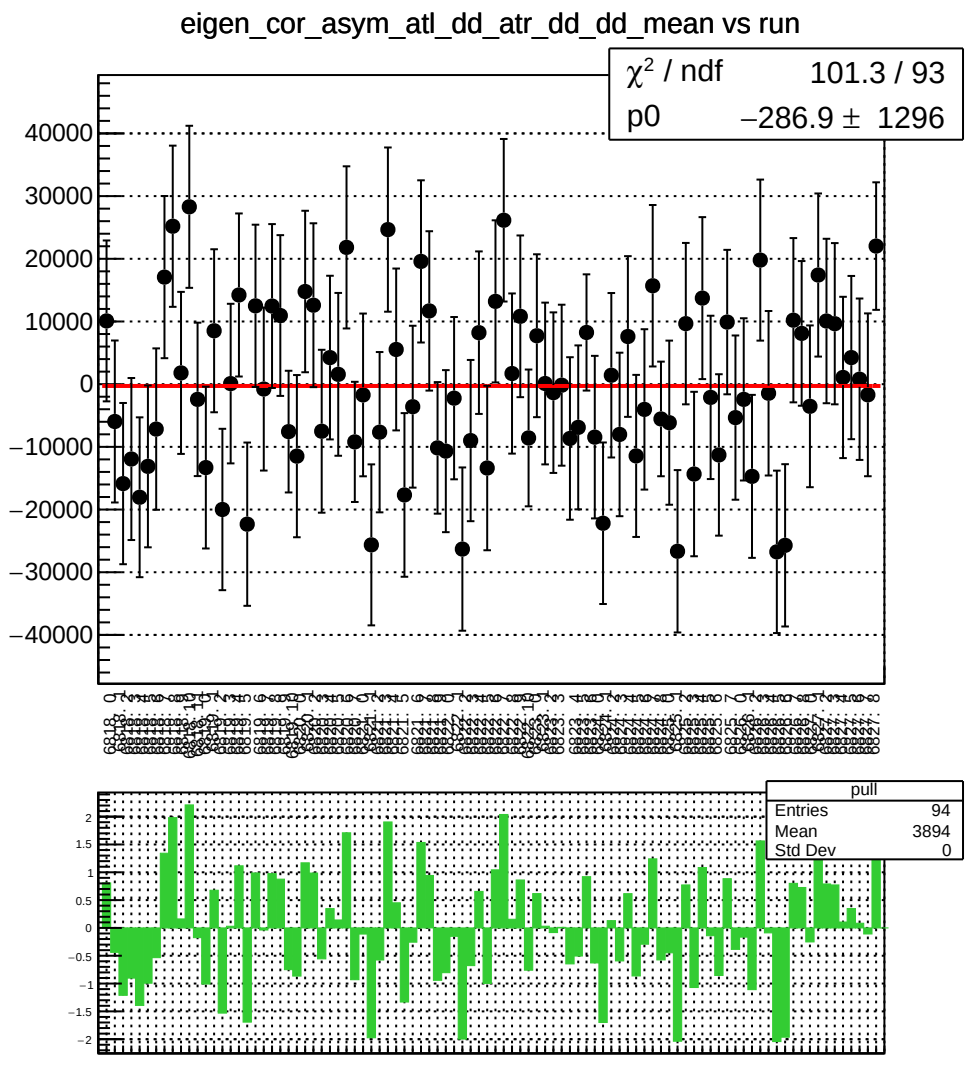

pull1D
Entries 94
Mean 0.0001818
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

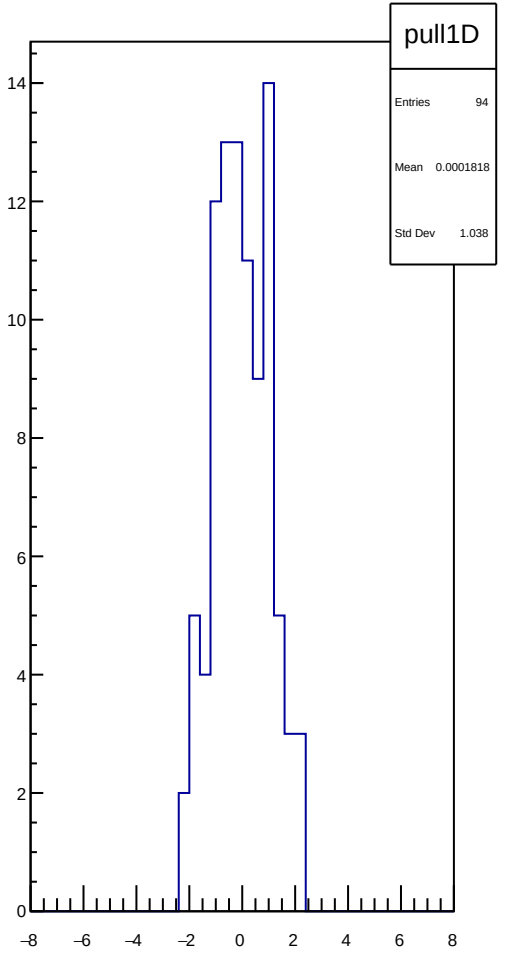

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

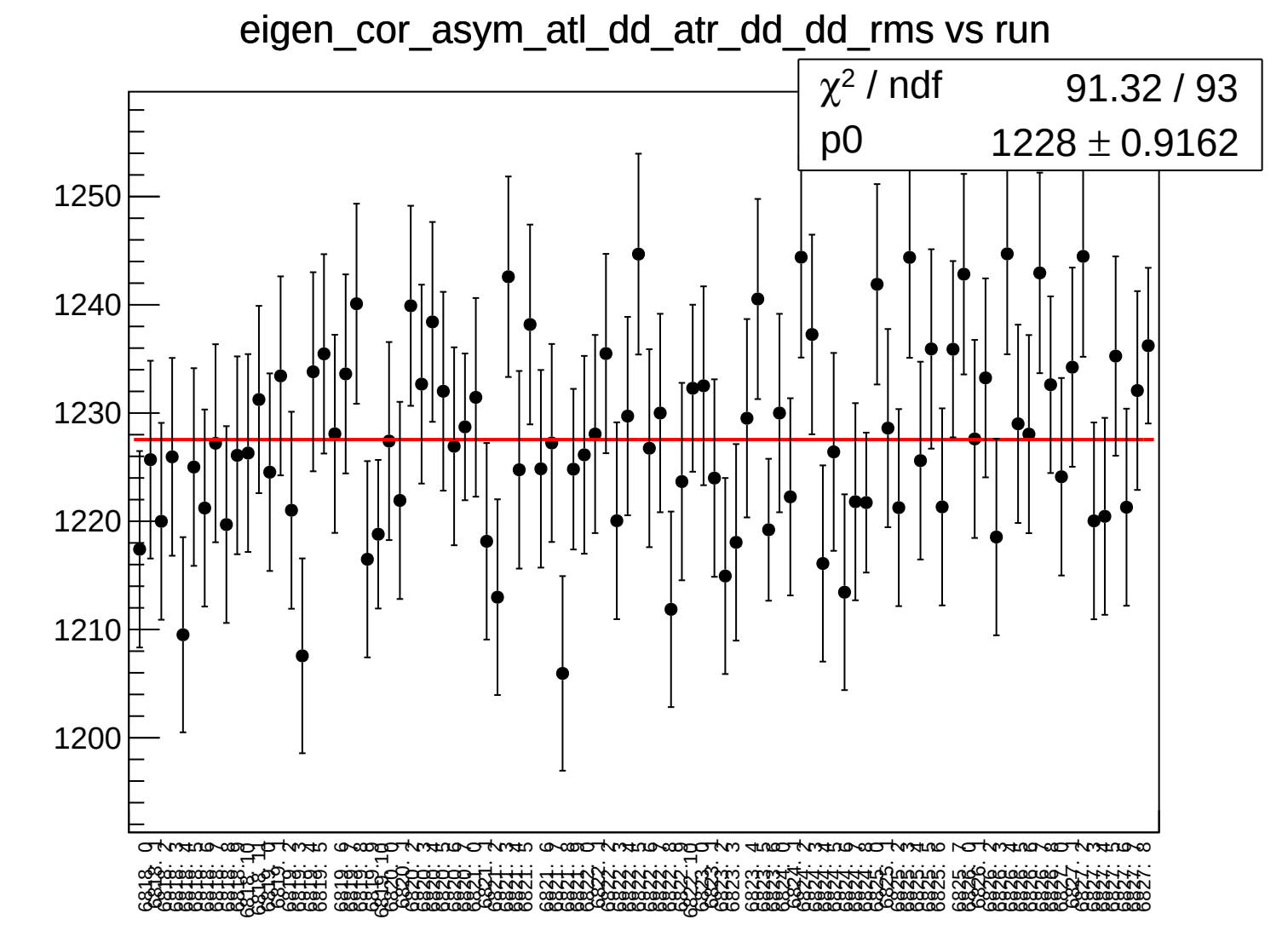

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 78.61 / 93
p0 836.5 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

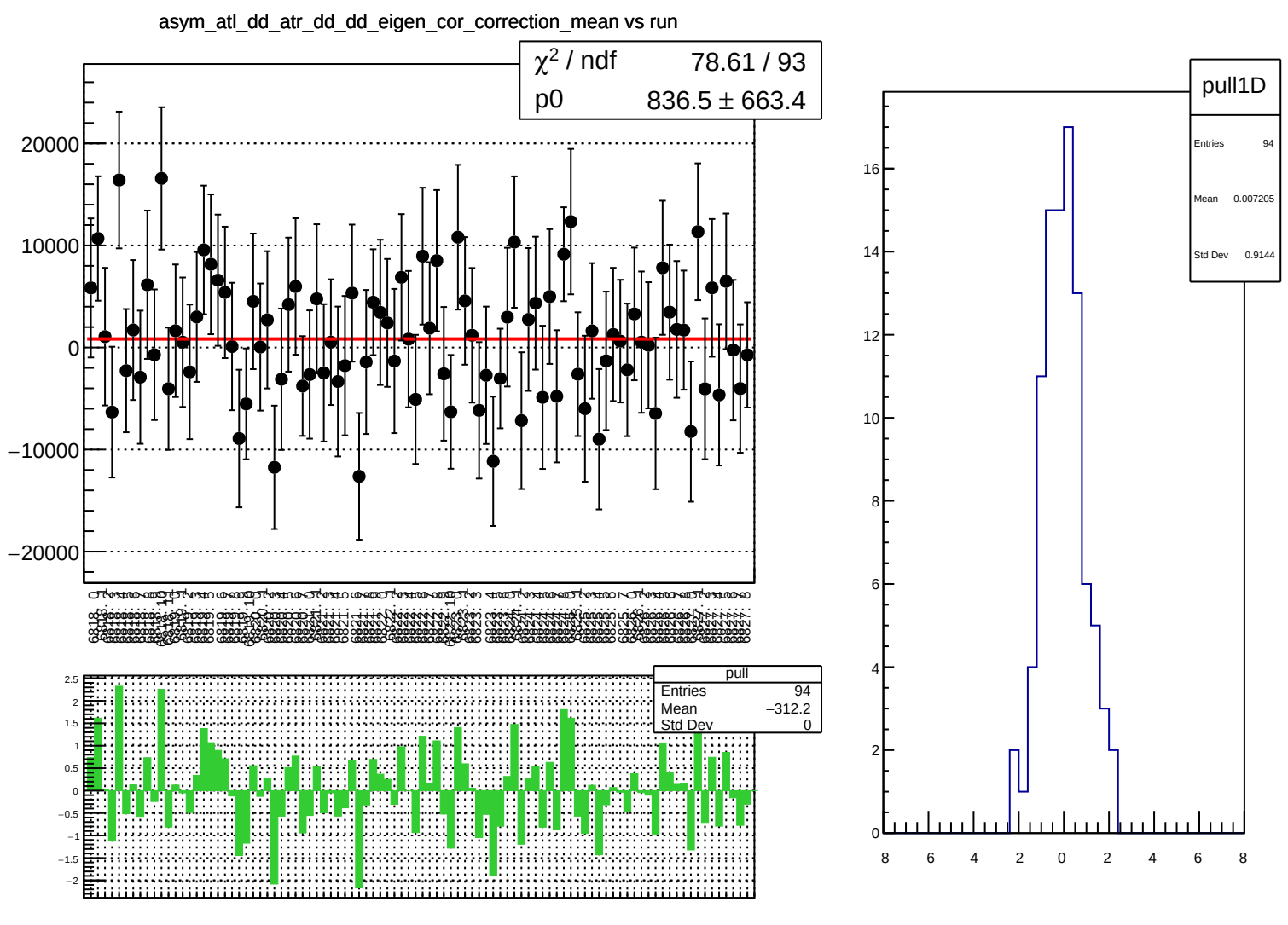

pull1D
Entries 94
Mean 0.007205
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

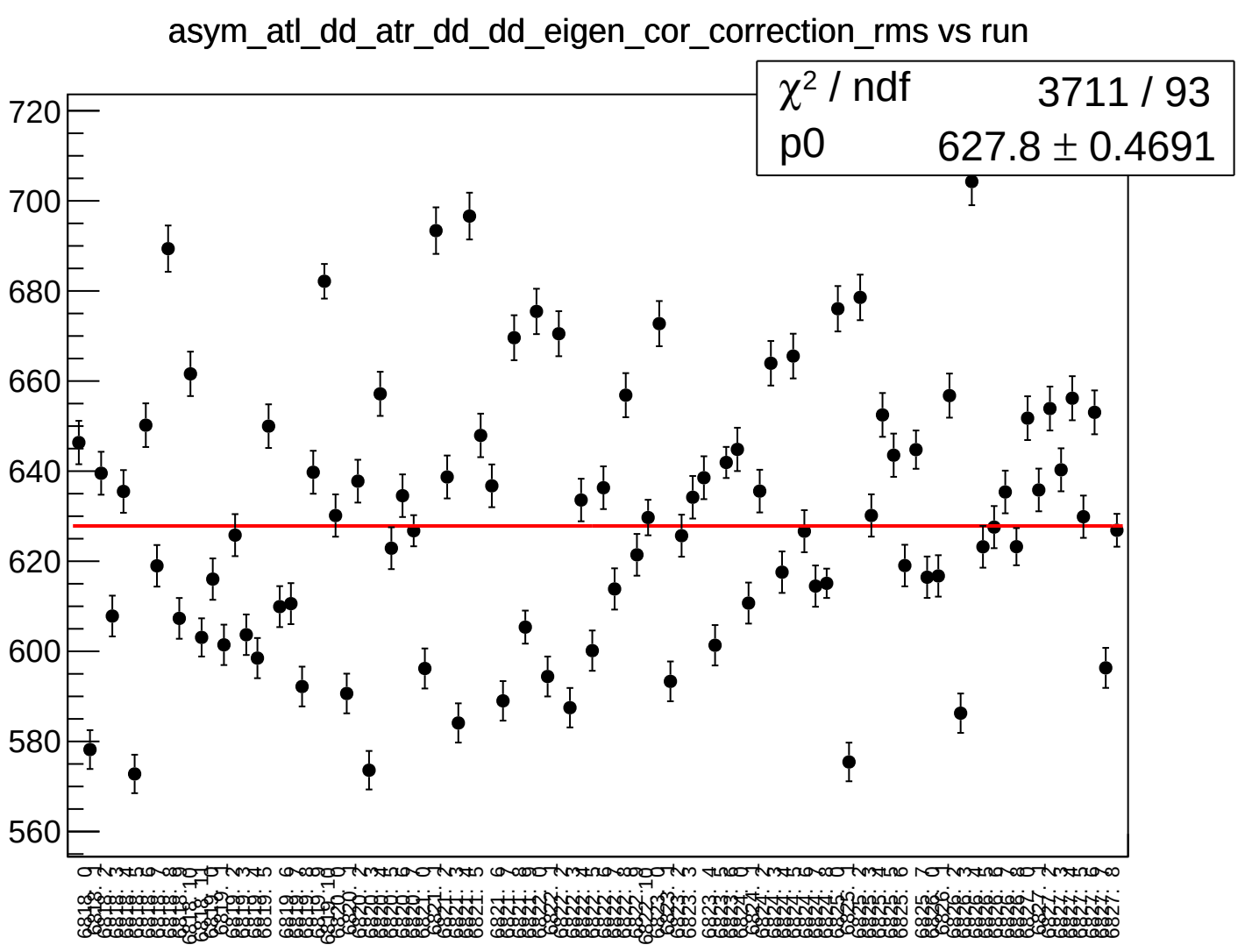

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 3711 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

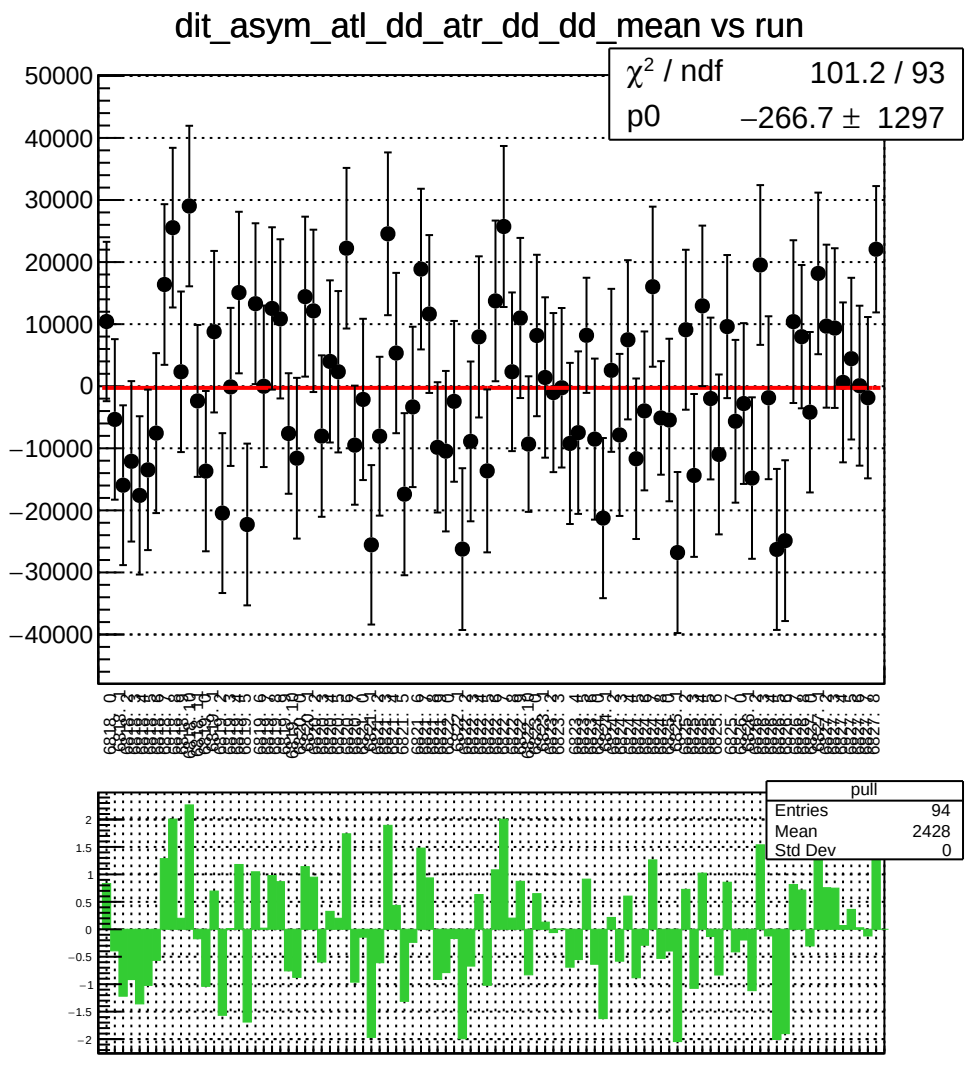

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.3 / 93
p0 −286.9 ± 1296
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 3894
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

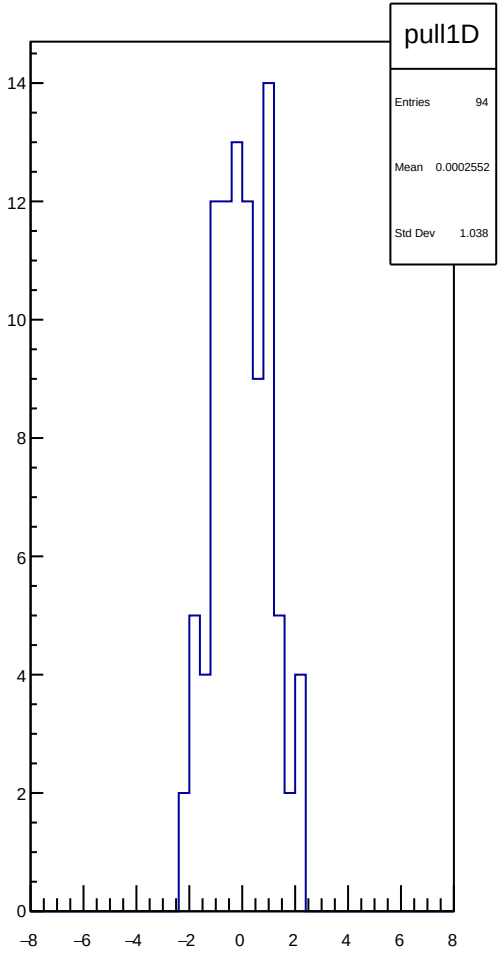

pull1D
Entries 94
Mean 0.0001818
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

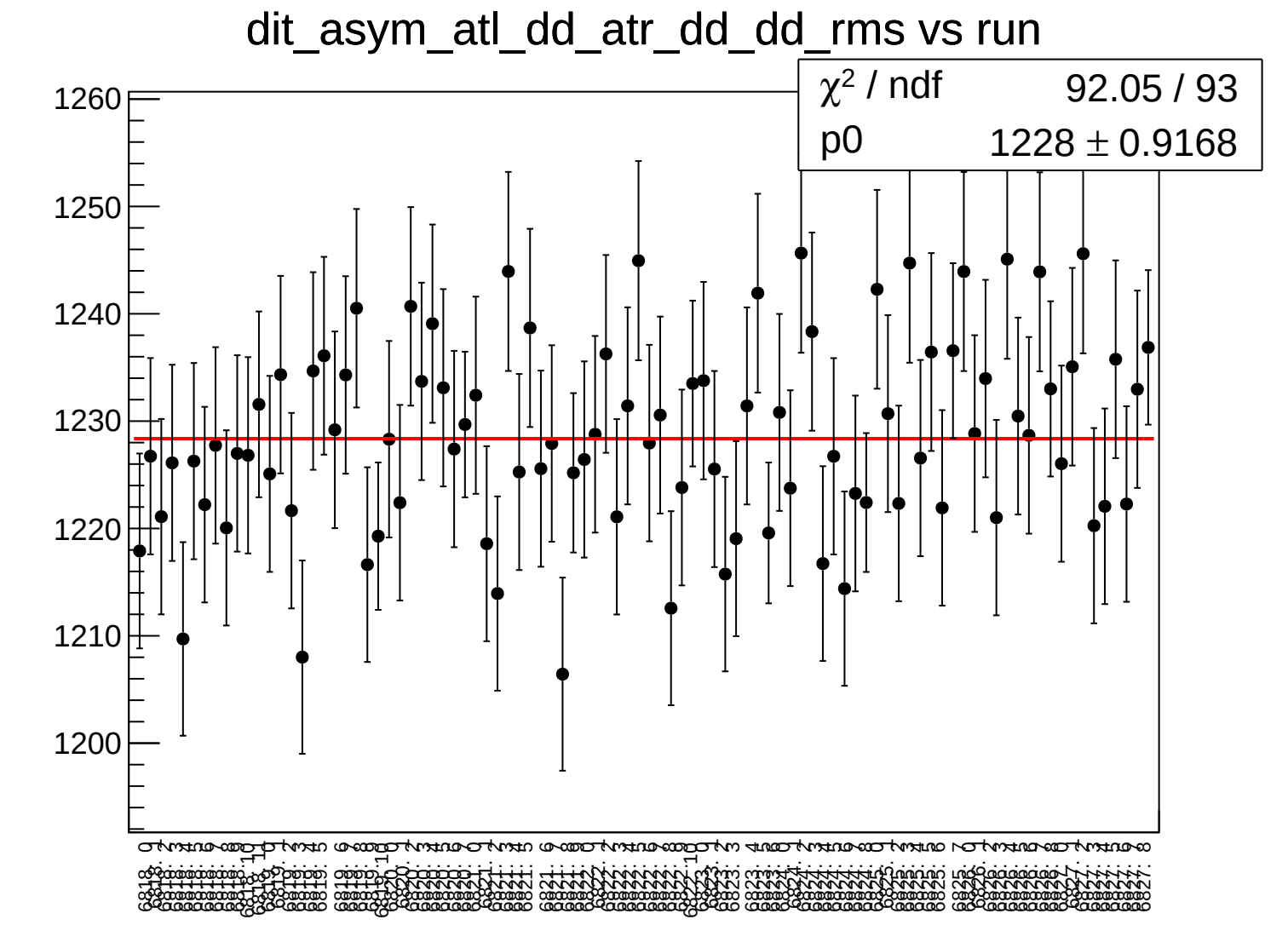

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

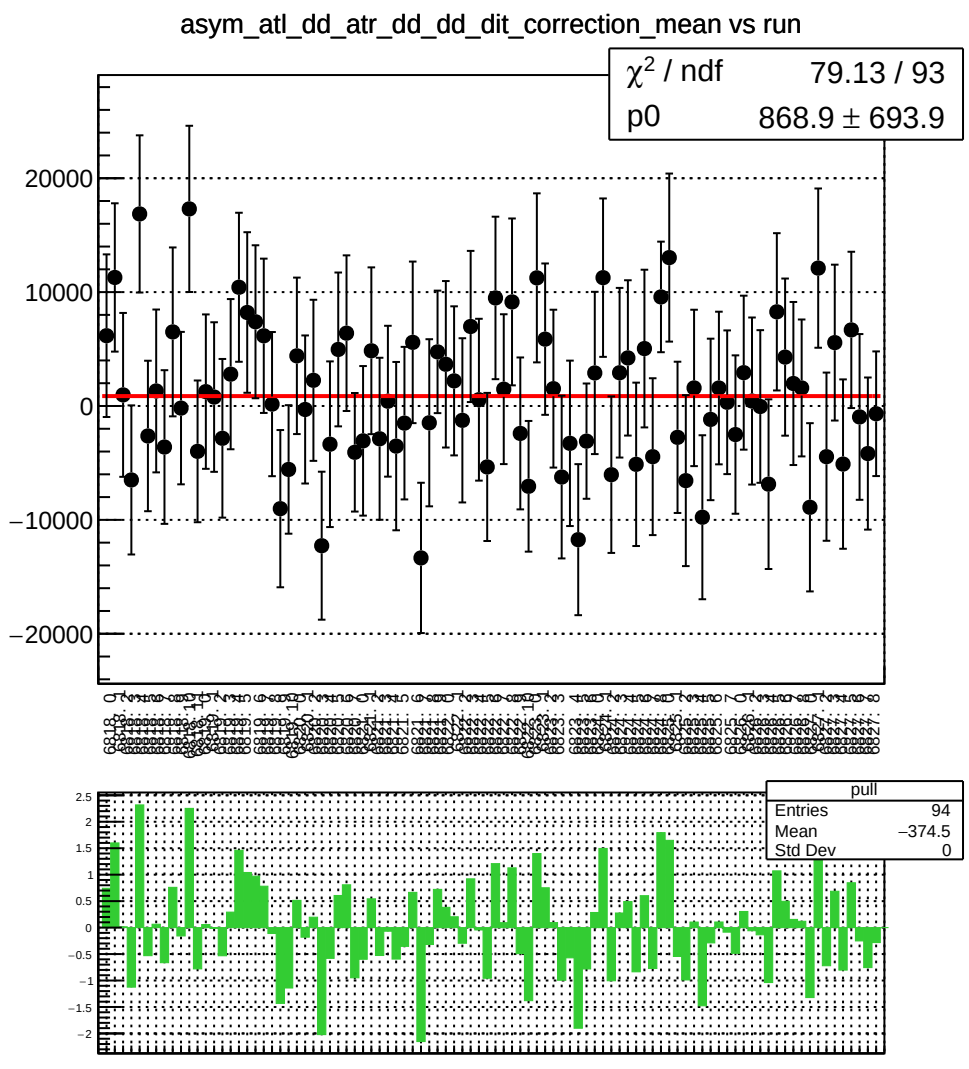

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.61 / 93
p0 836.5 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.007205
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

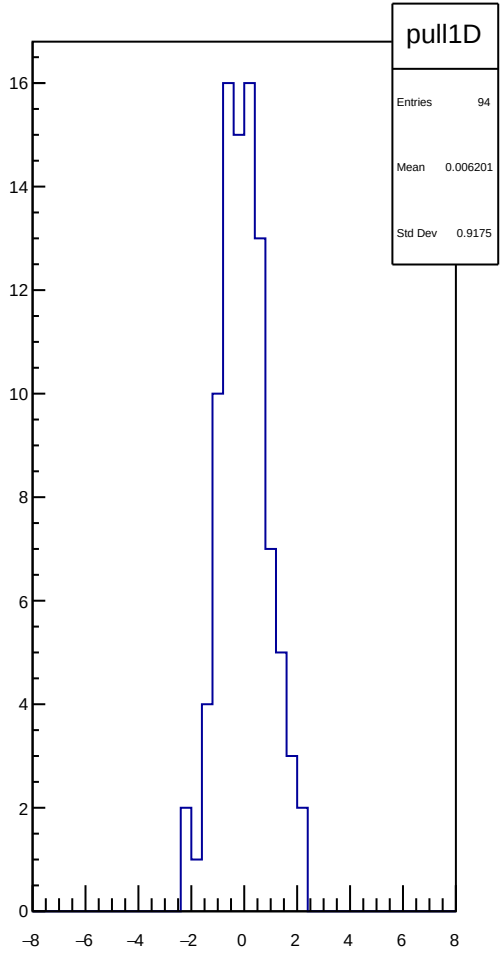

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3711 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

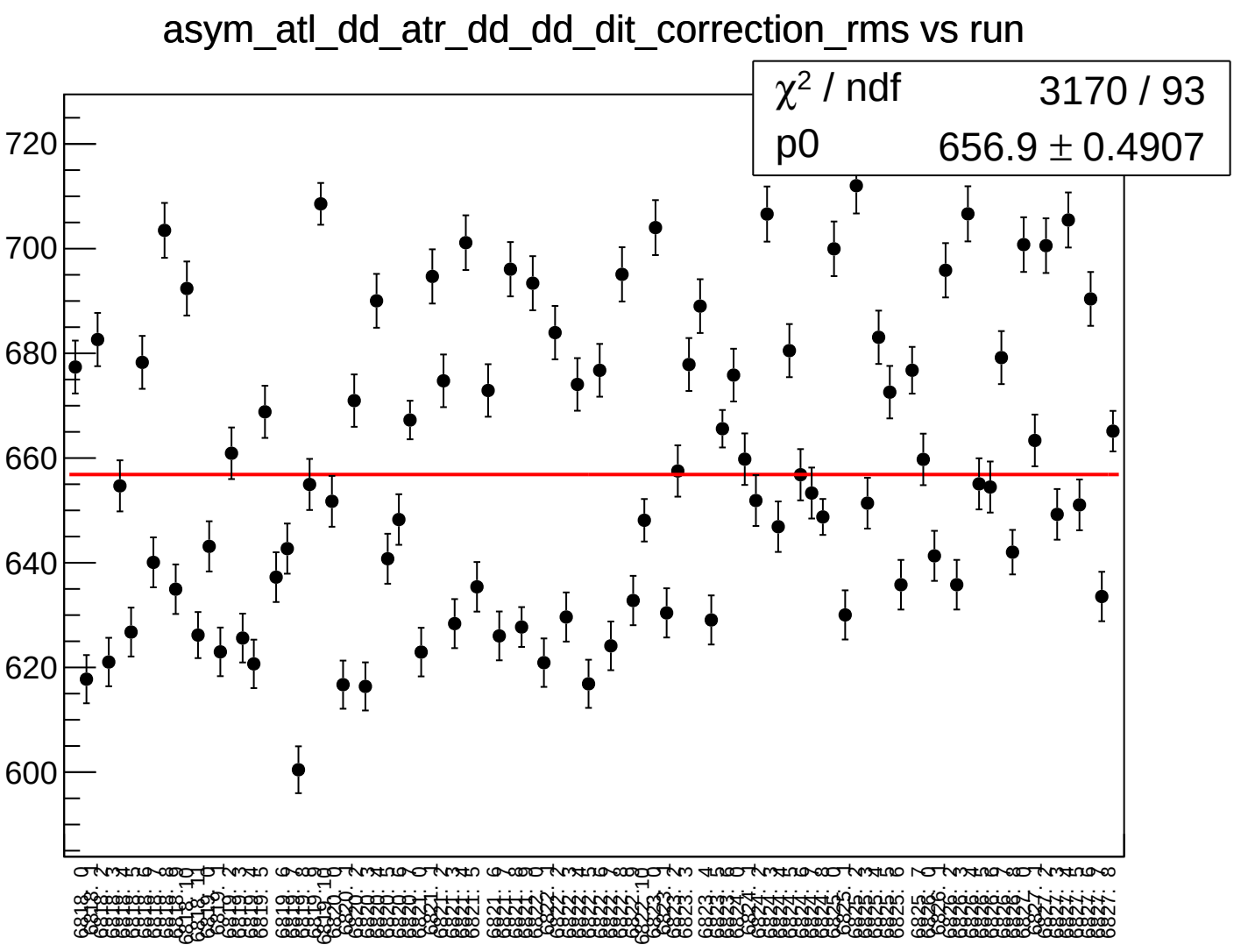

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.2 / 93
p0 −266.7 ± 1297
pull
Entries 94
Mean 2428
Std Dev 0

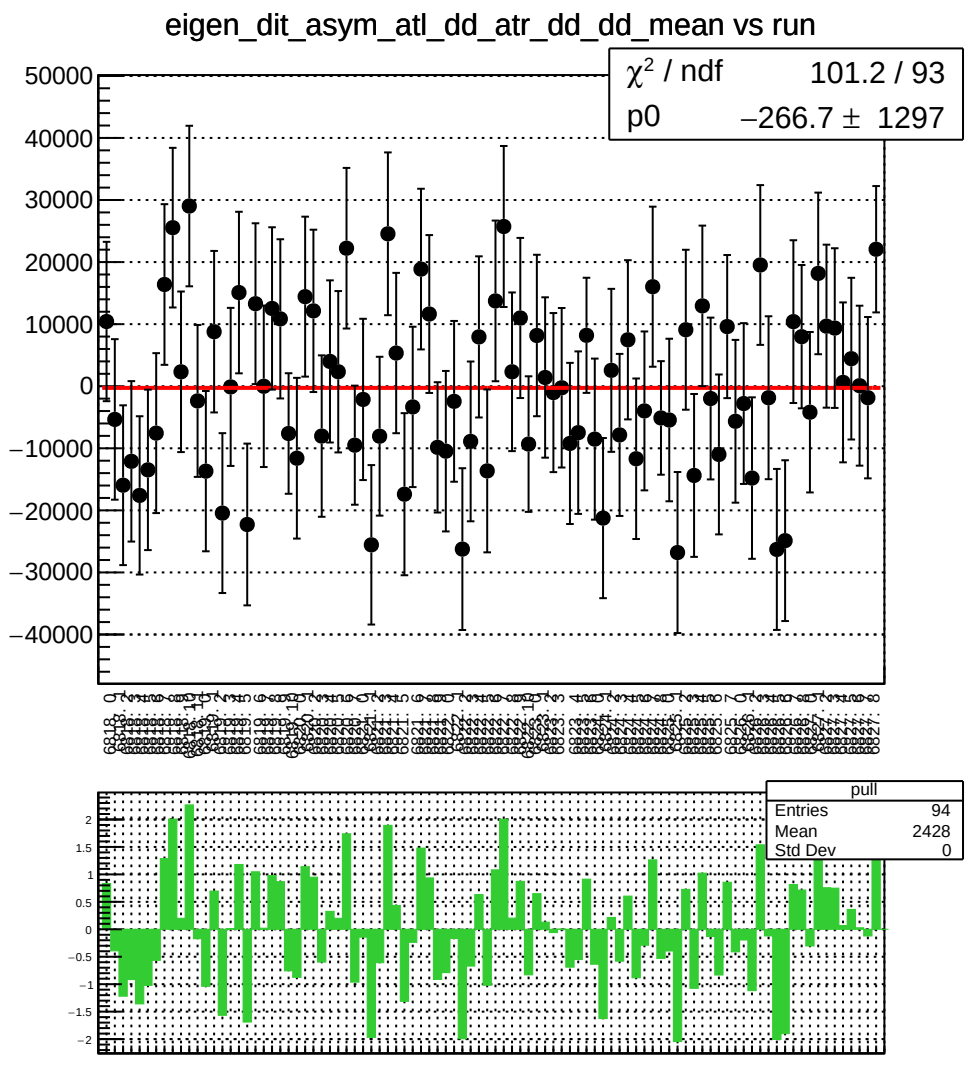

pull1D
Entries 94
Mean 0.0002552
Std Dev 1.038

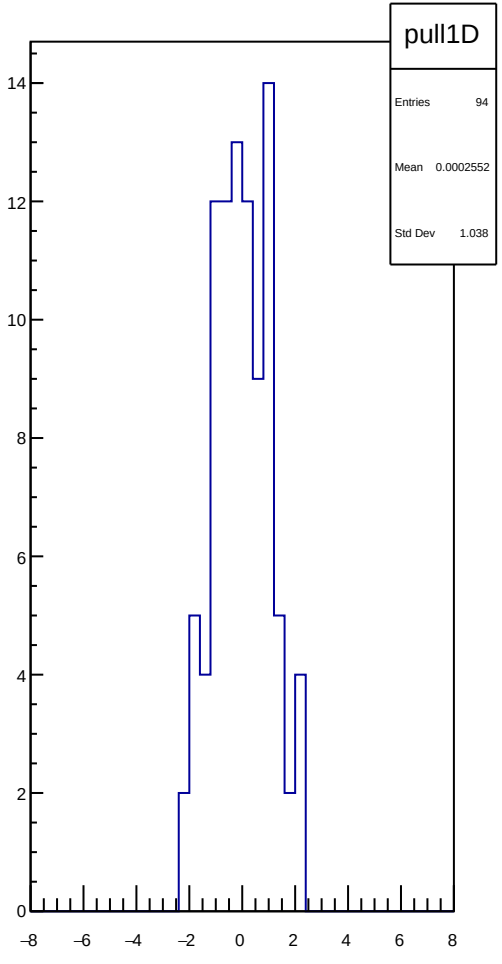

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 92.05 / 93
p0 1228 ± 0.9168
1260
1250
1240
1230
1220
1210
1200

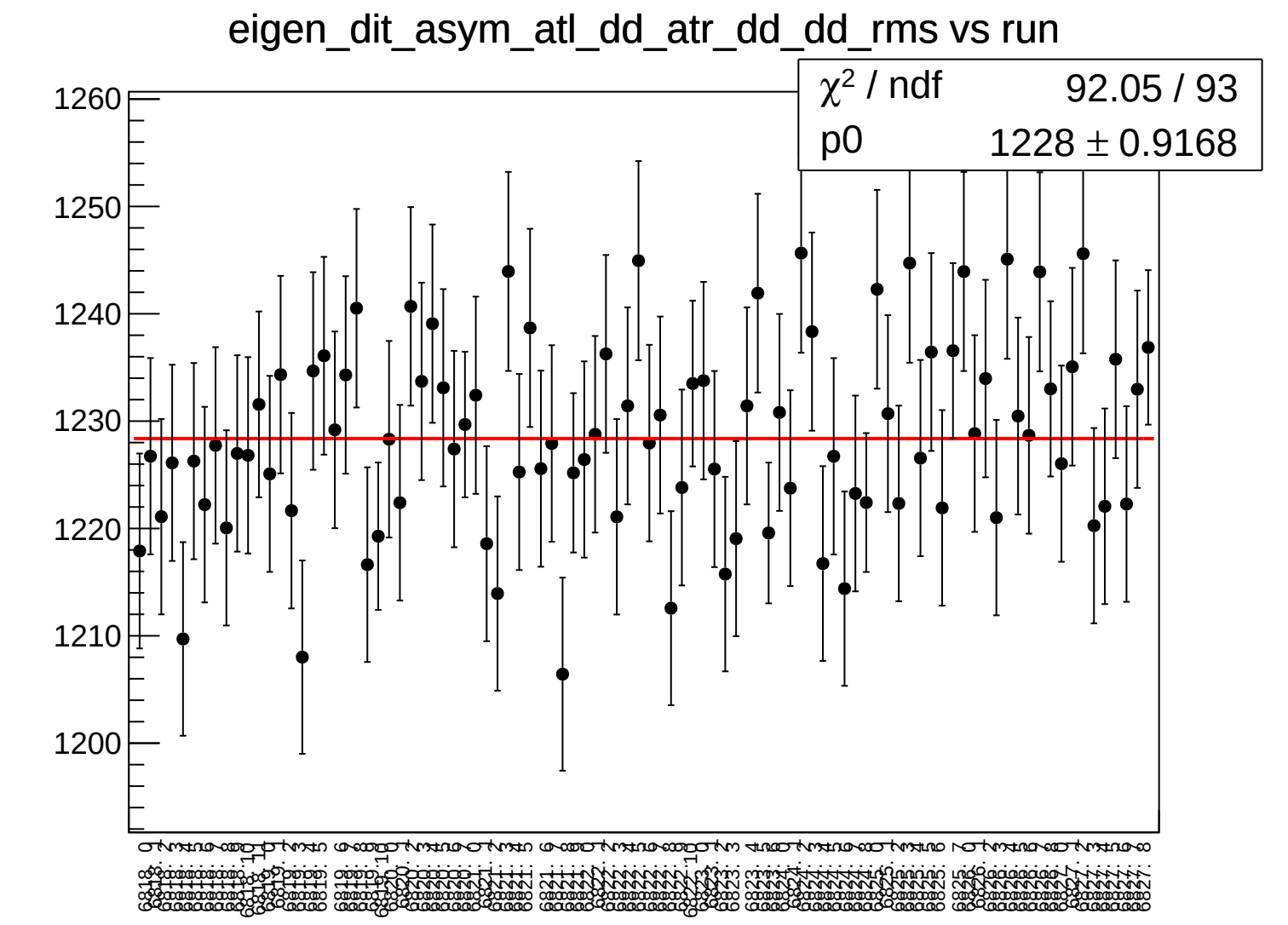

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 79.13 / 93
p0 868.9 ± 693.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

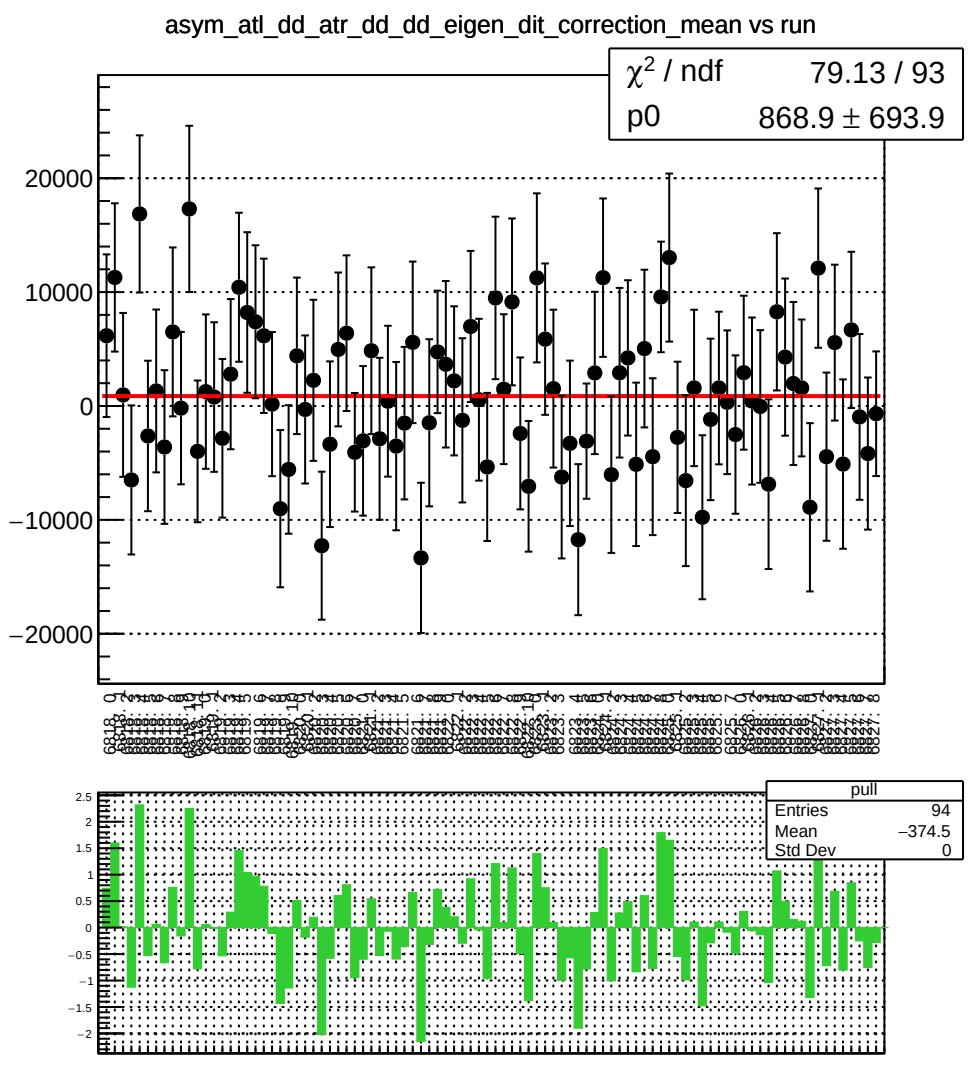

pull1D
Entries 94
Mean 0.006201
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

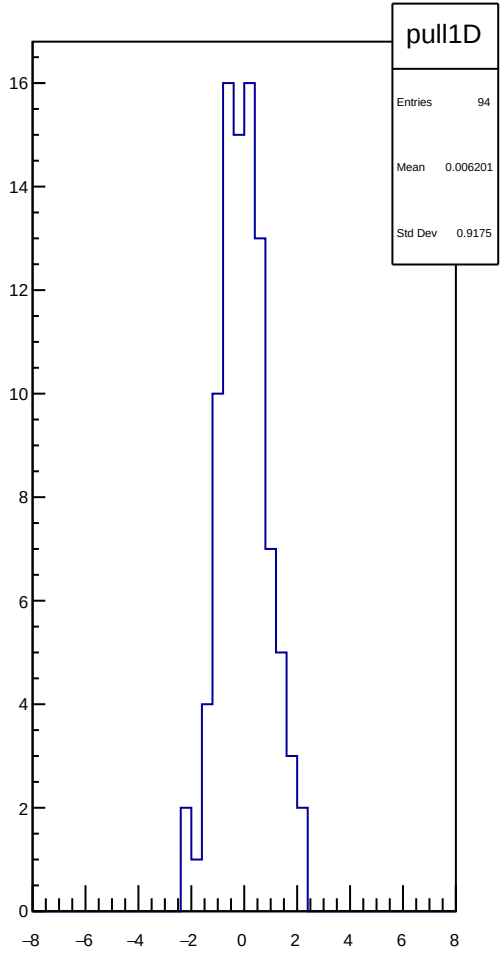

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 3170 / 93
p0 656.9 ± 0.4907
720
700
680
660
640
620
600

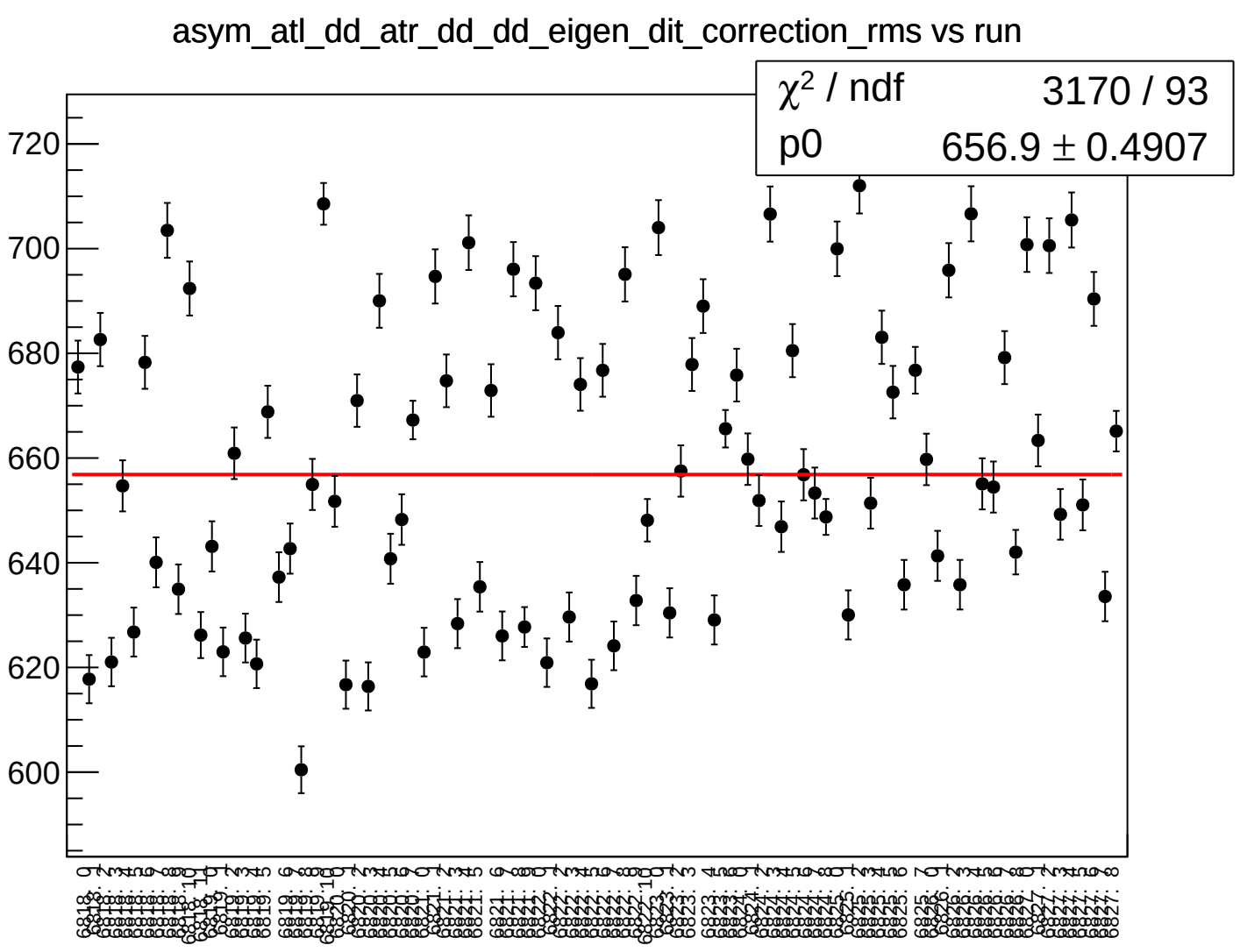

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 101.2 / 93
p0 −266.7 ± 1297
pull
Entries 94
Mean 2428
Std Dev 0

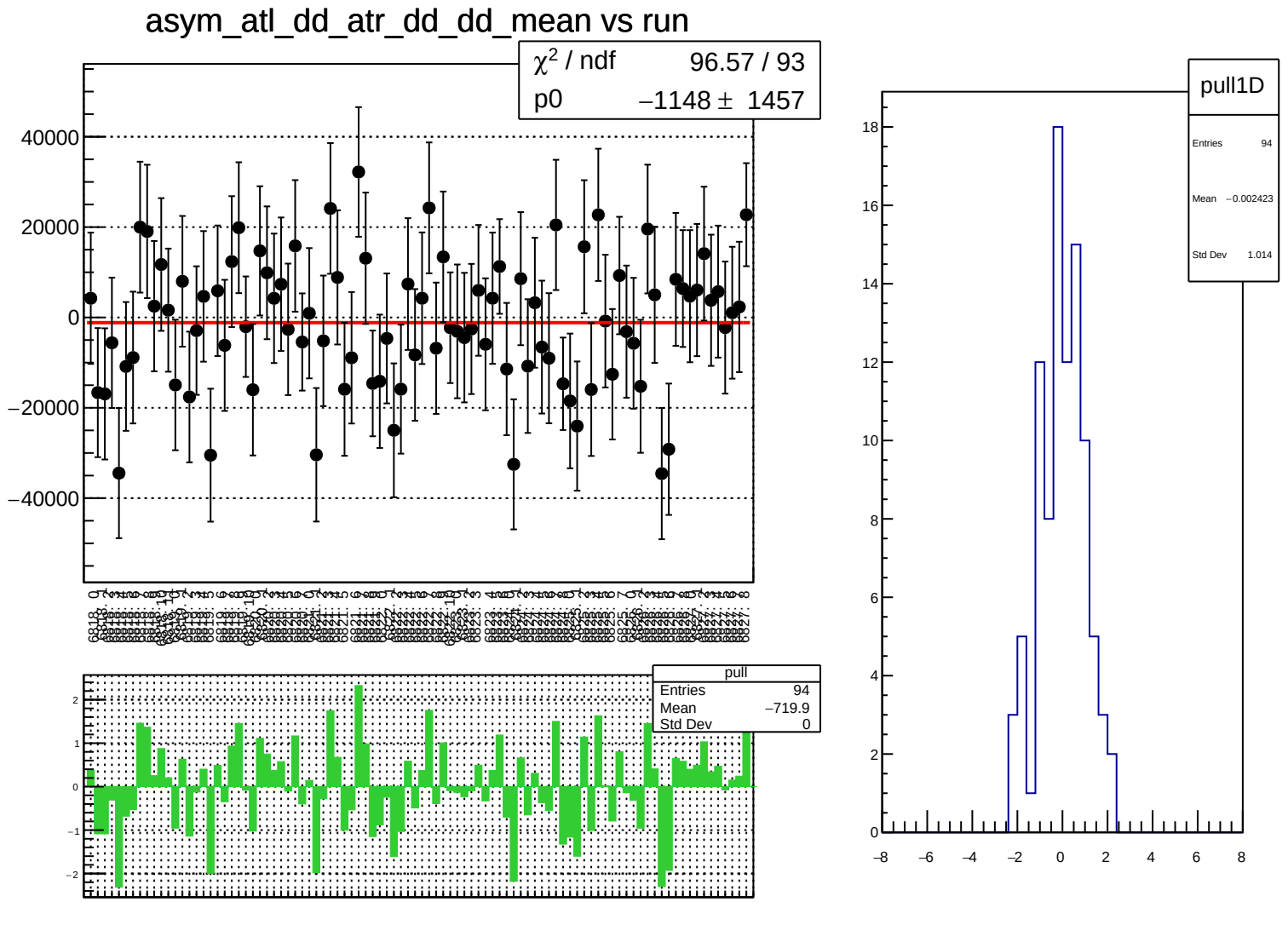

pull1D
Entries 94
Mean 0.0002552
Std Dev 1.038

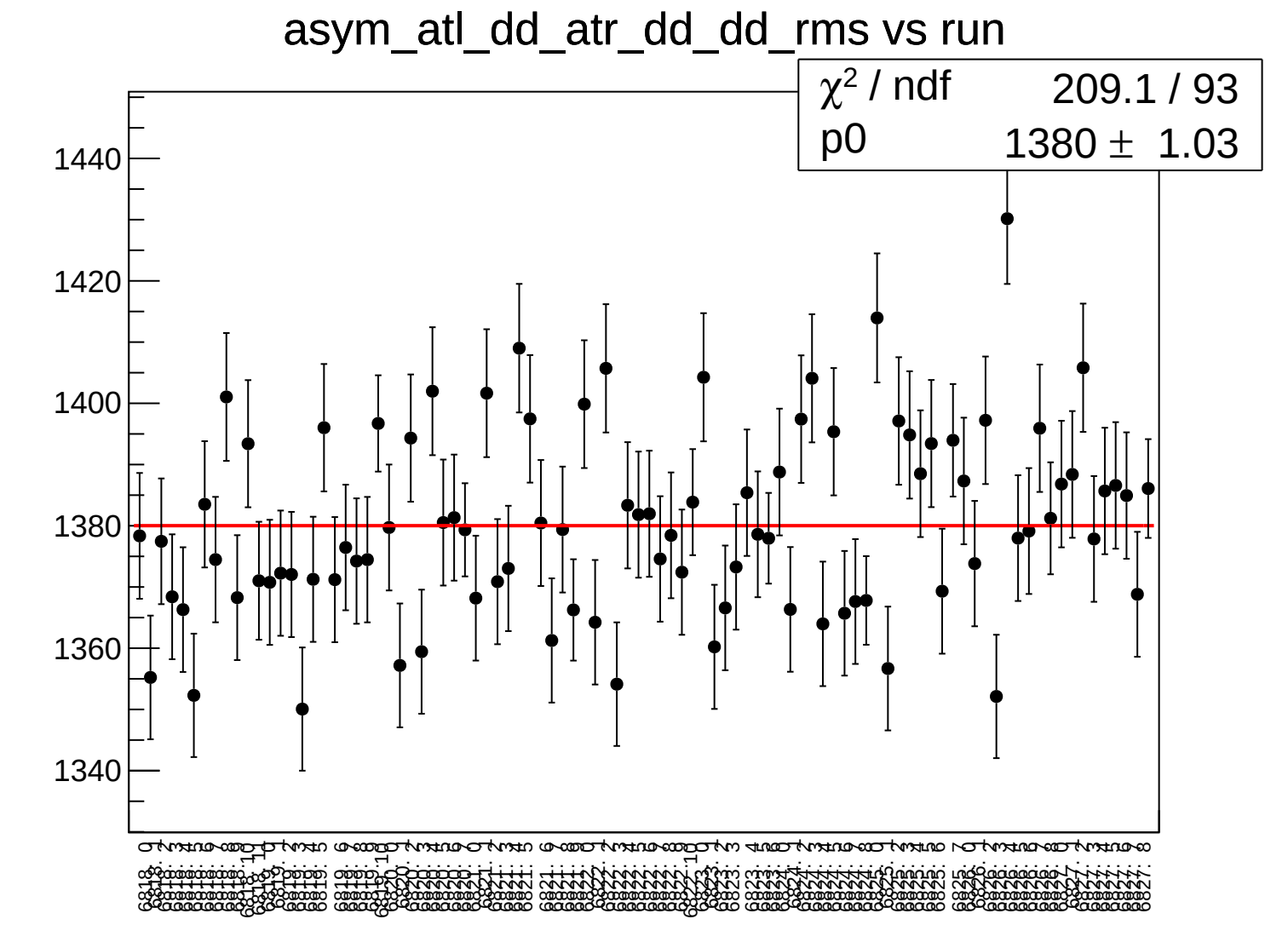

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 92.05 / 93
p0 1228 ± 0.9168
1260
1250
1240
1230
1220
1210
1200

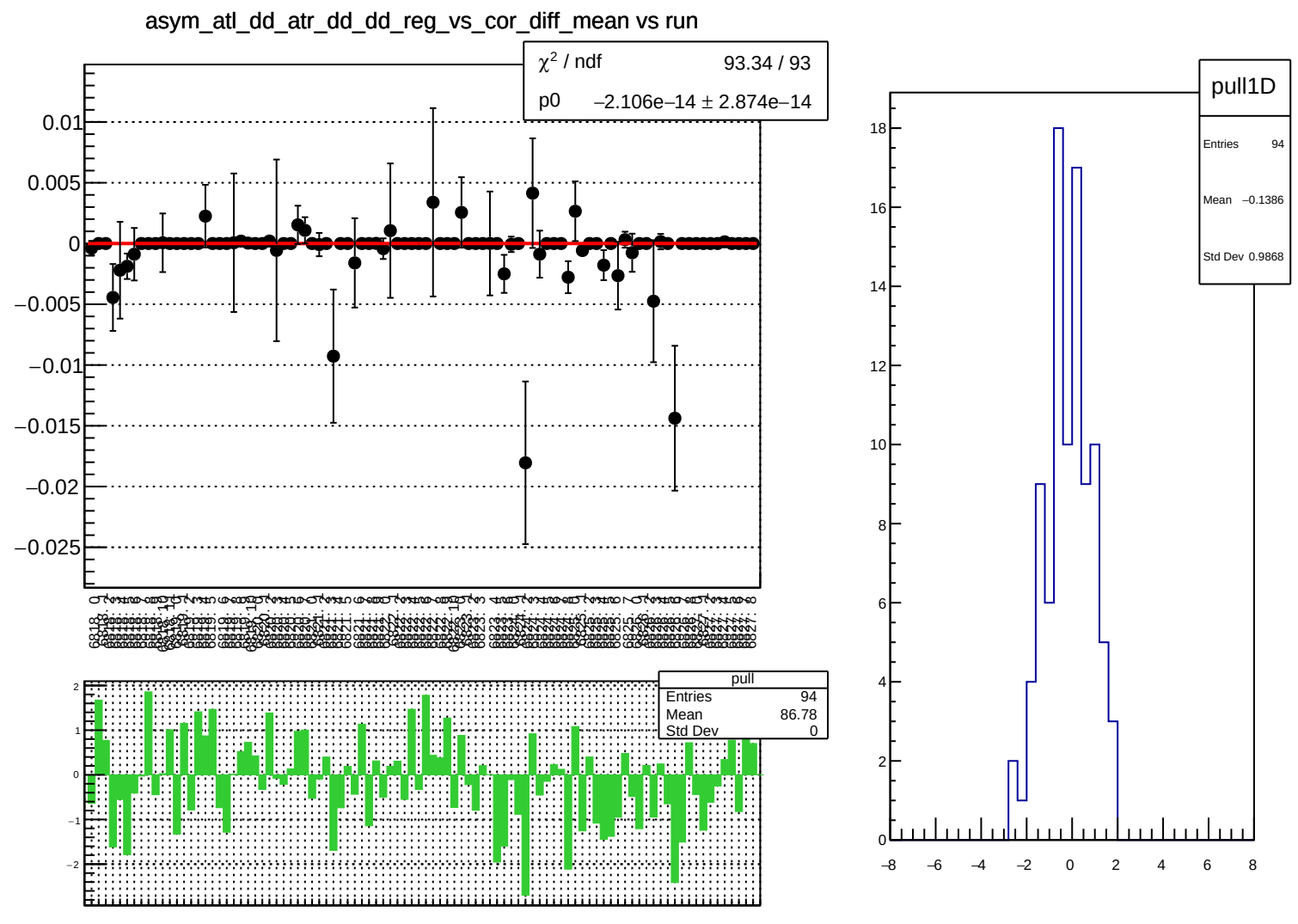

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.13 / 93
p0 868.9 ± 693.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

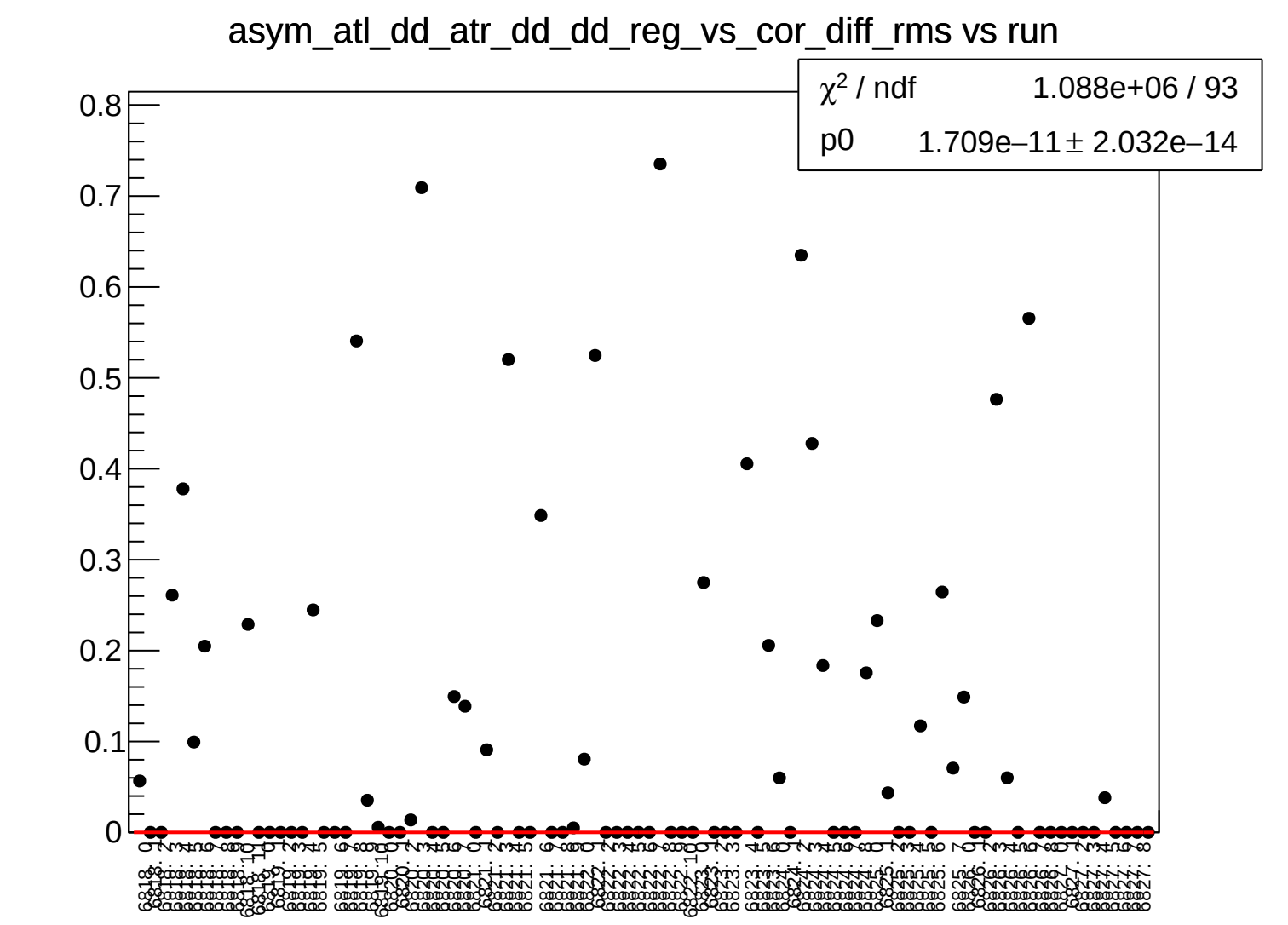

pull1D
Entries 94
Mean 0.006201
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

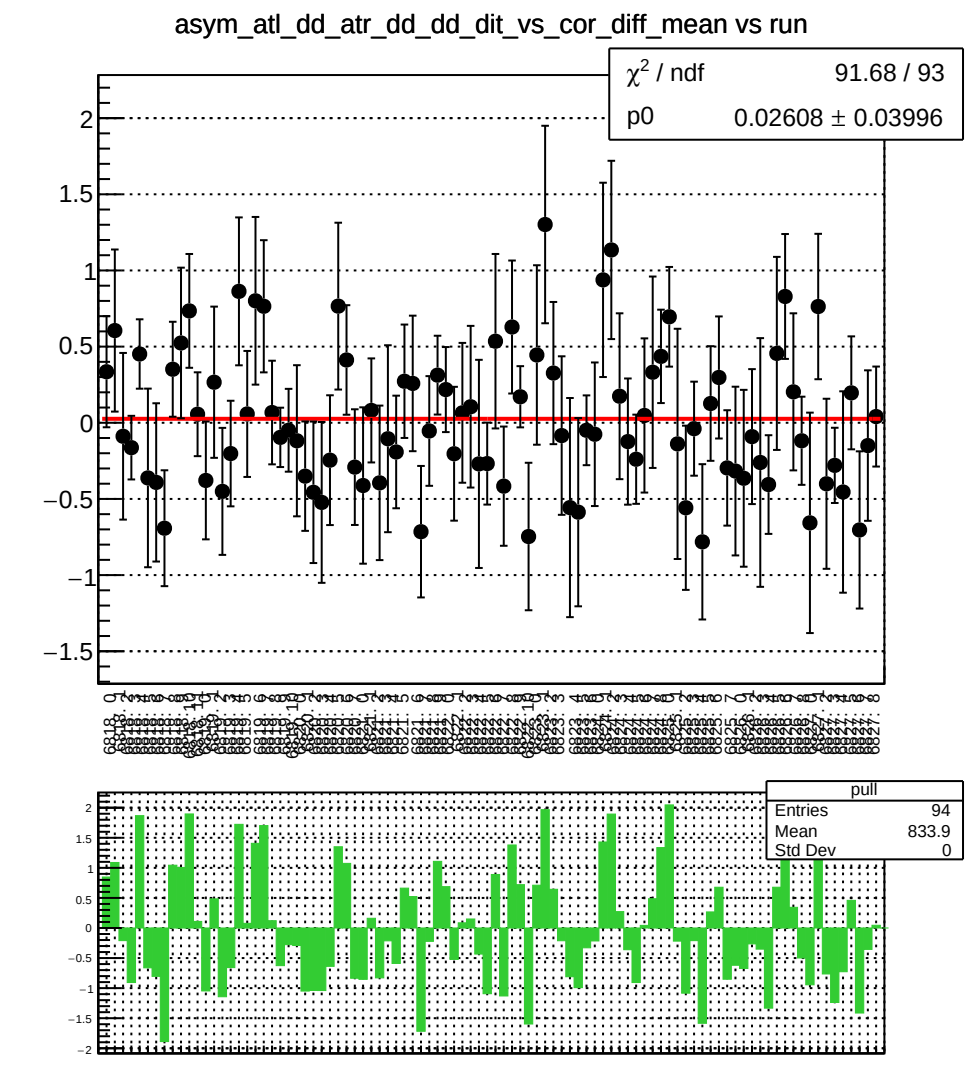

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3170 / 93
p0 656.9 ± 0.4907
720
700
680
660
640
620
600

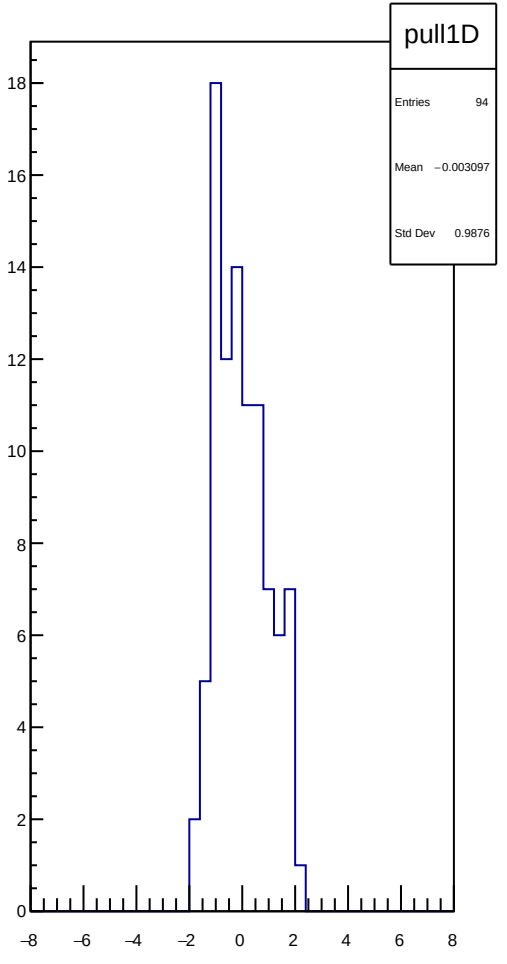

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 96.57 / 93
p0 −1148 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −719.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.002423
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

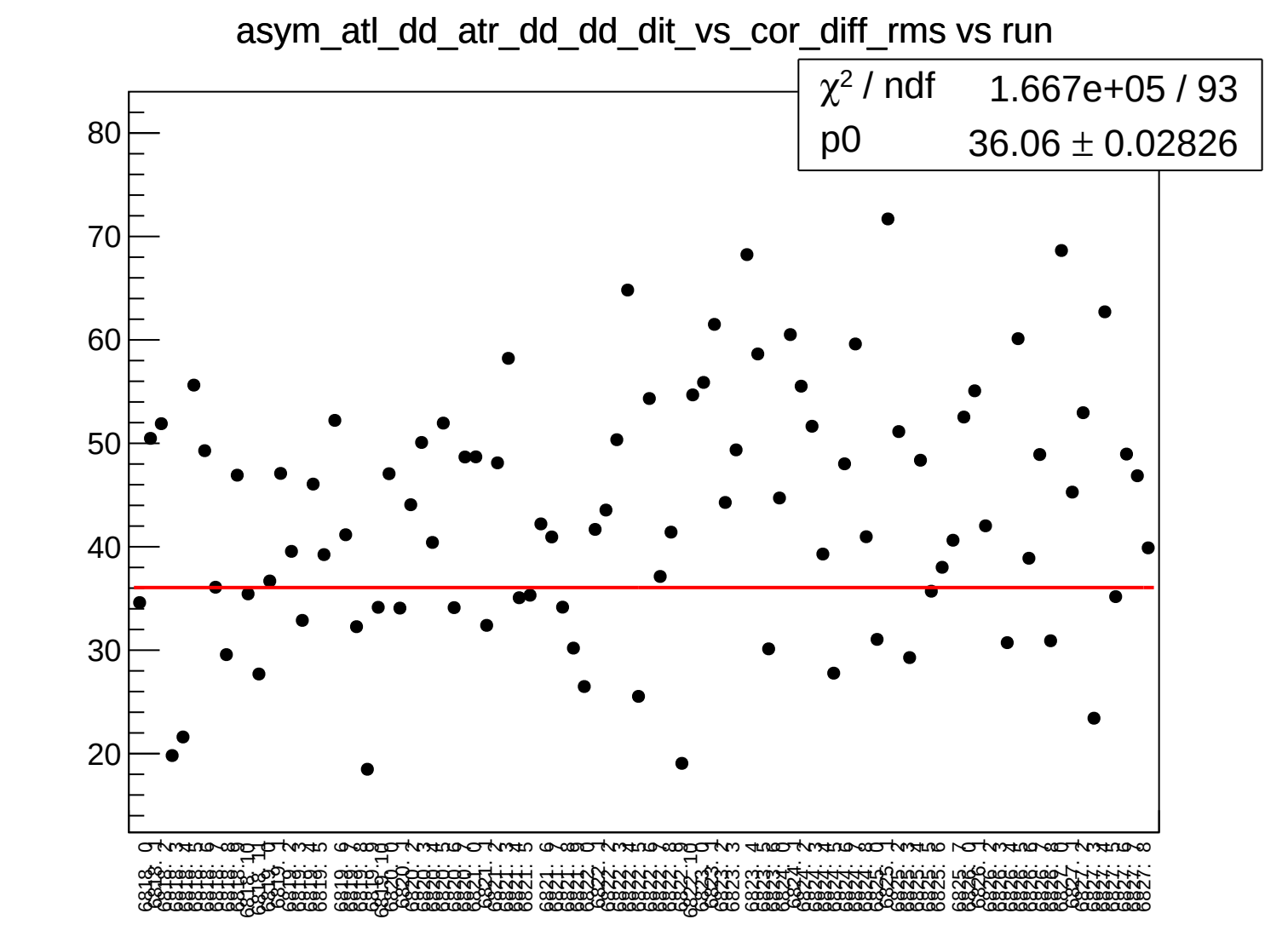

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 209.1 / 93
p0 1380 ± 1.03
1440
1420
1400
1380
1360
1340

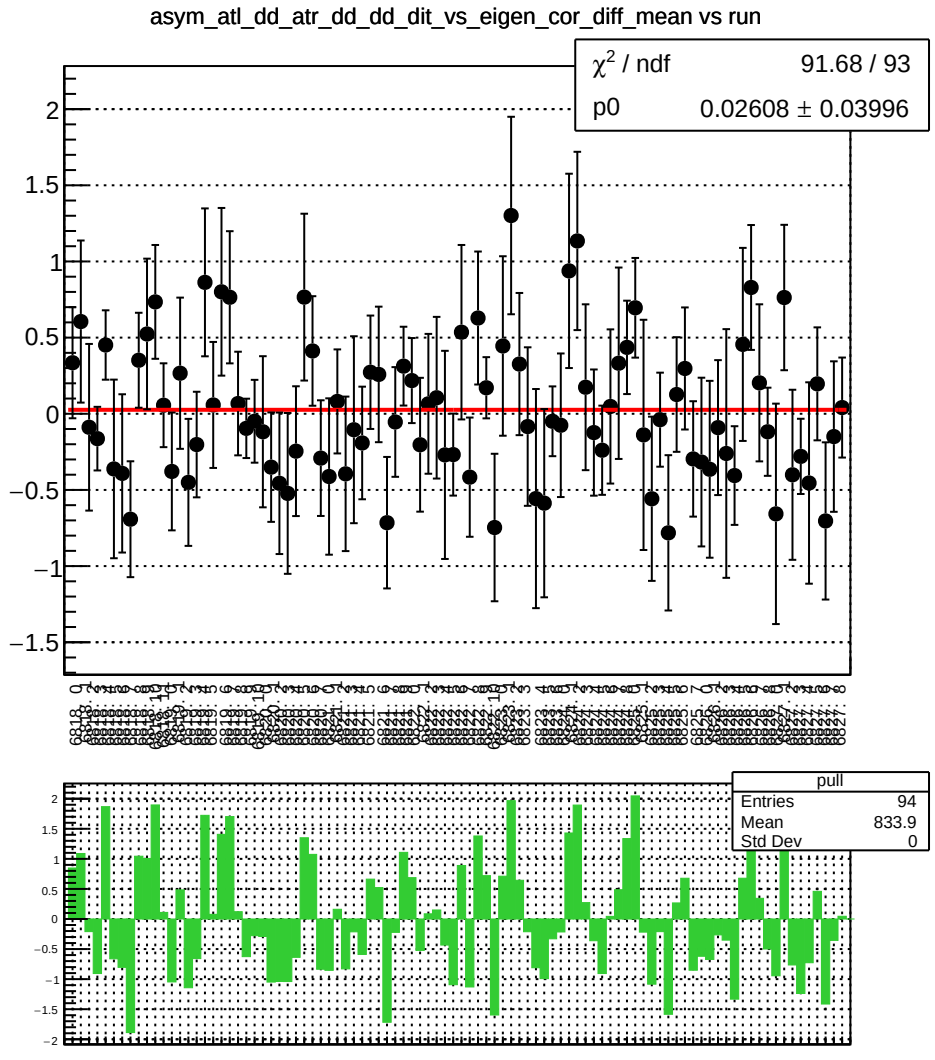

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 93
p0 −2.106e−14 ± 2.874e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 94
Mean 86.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1386
Std Dev 0.9868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

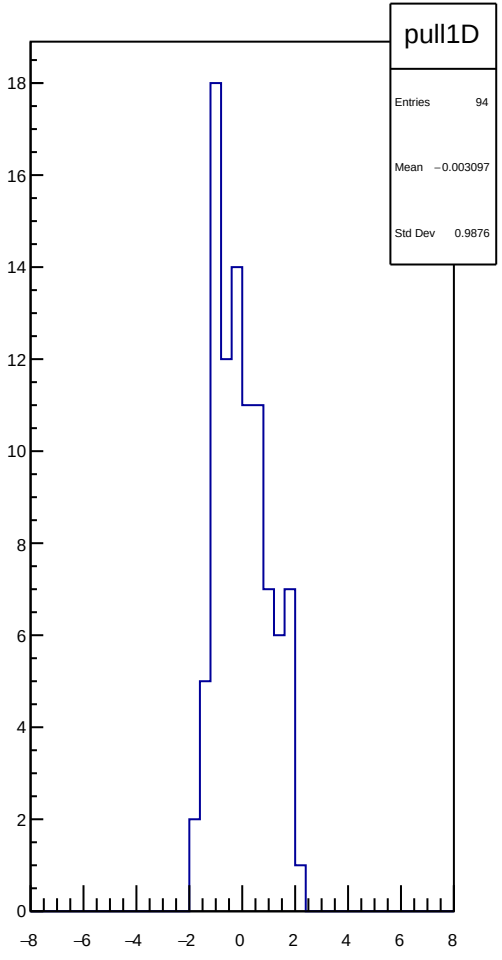

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 93
p0 1.709e−11 ± 2.032e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

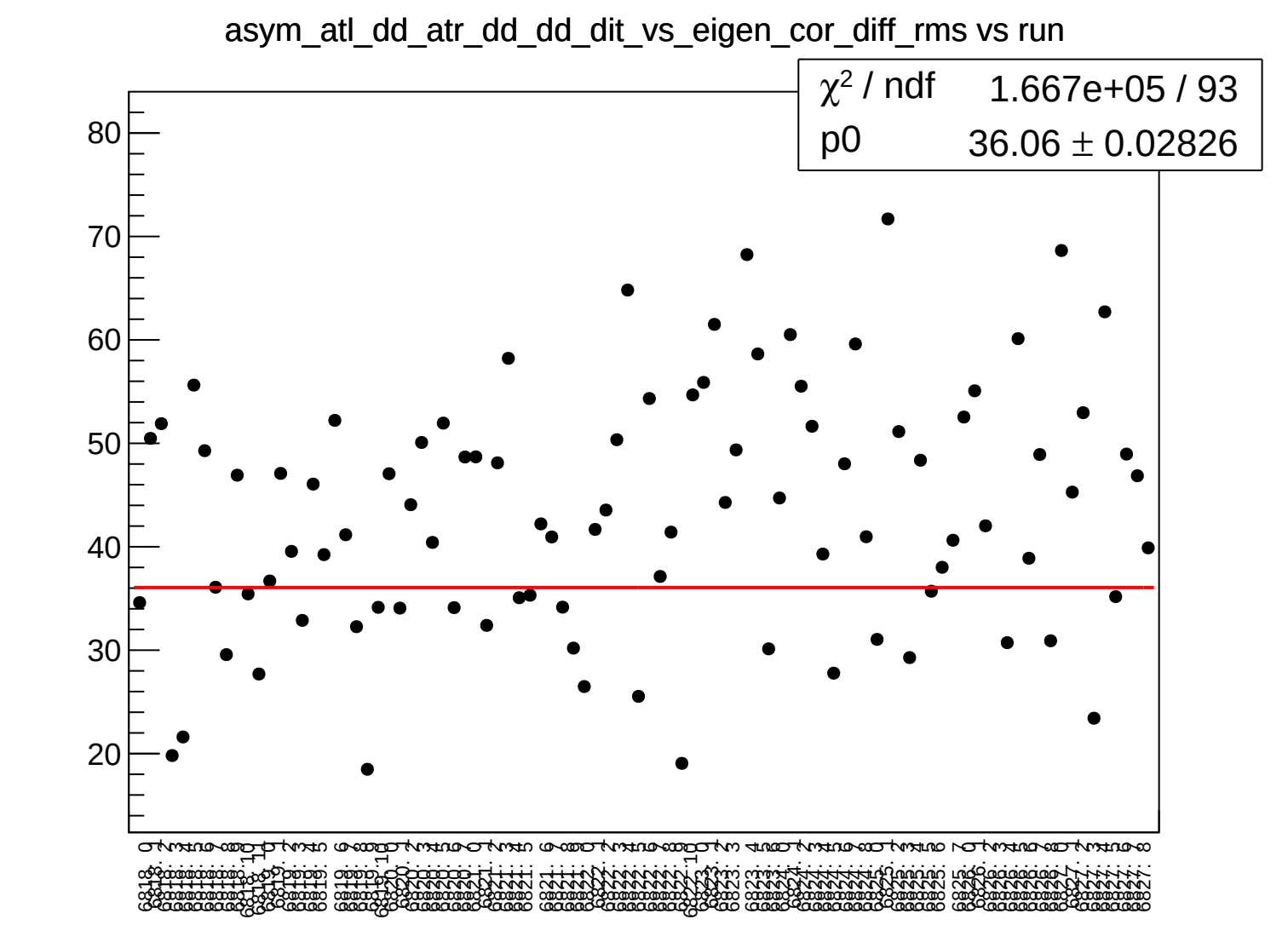

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02608 ± 0.03996
pull
Entries 94
Mean 833.9
Std Dev 0

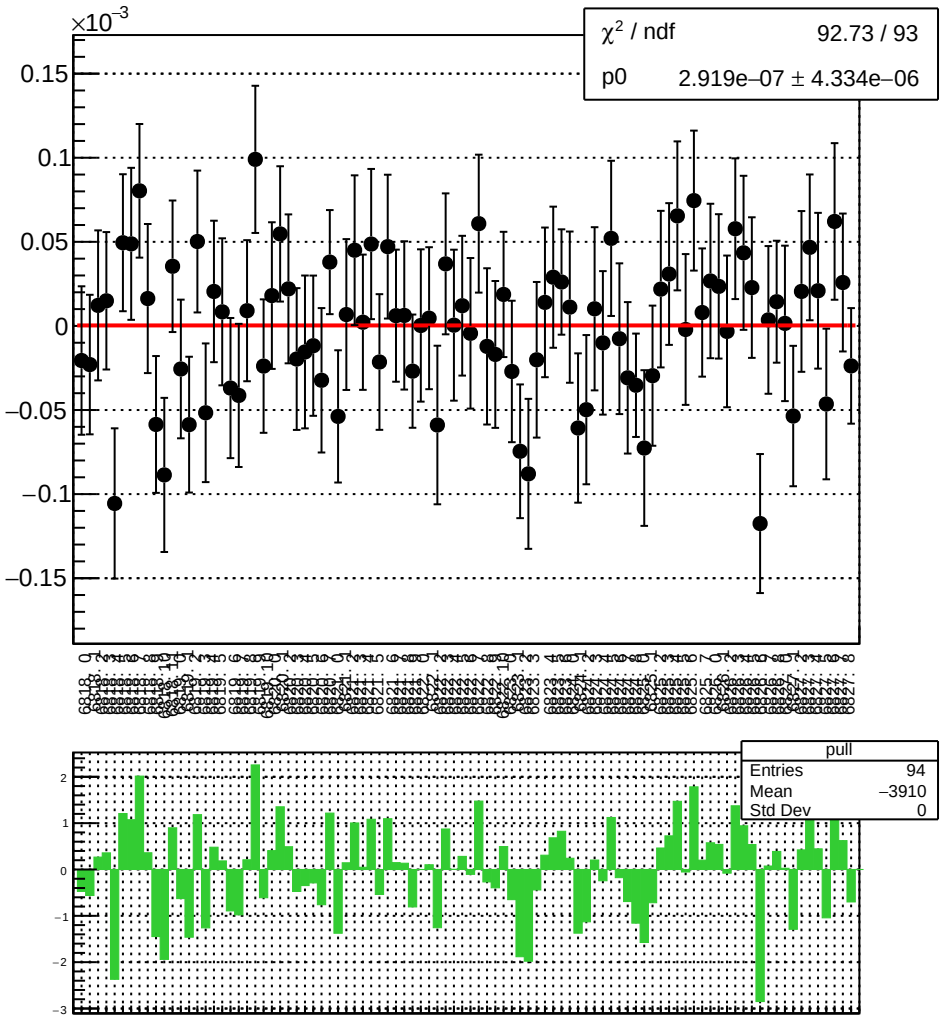

pull1D
Entries 94
Mean −0.003097
Std Dev 0.9876

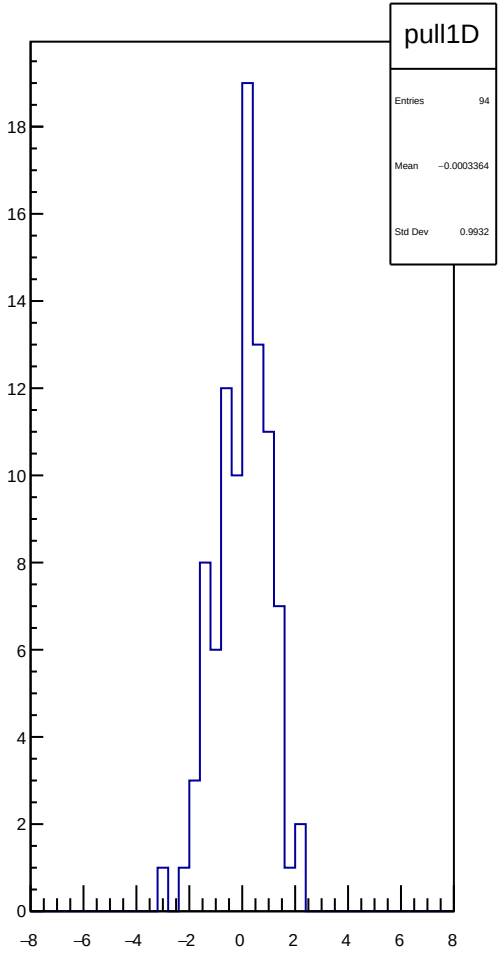

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.667e+05 / 93
p0 36.06 ± 0.02826
80
70
60
50
40
30
20

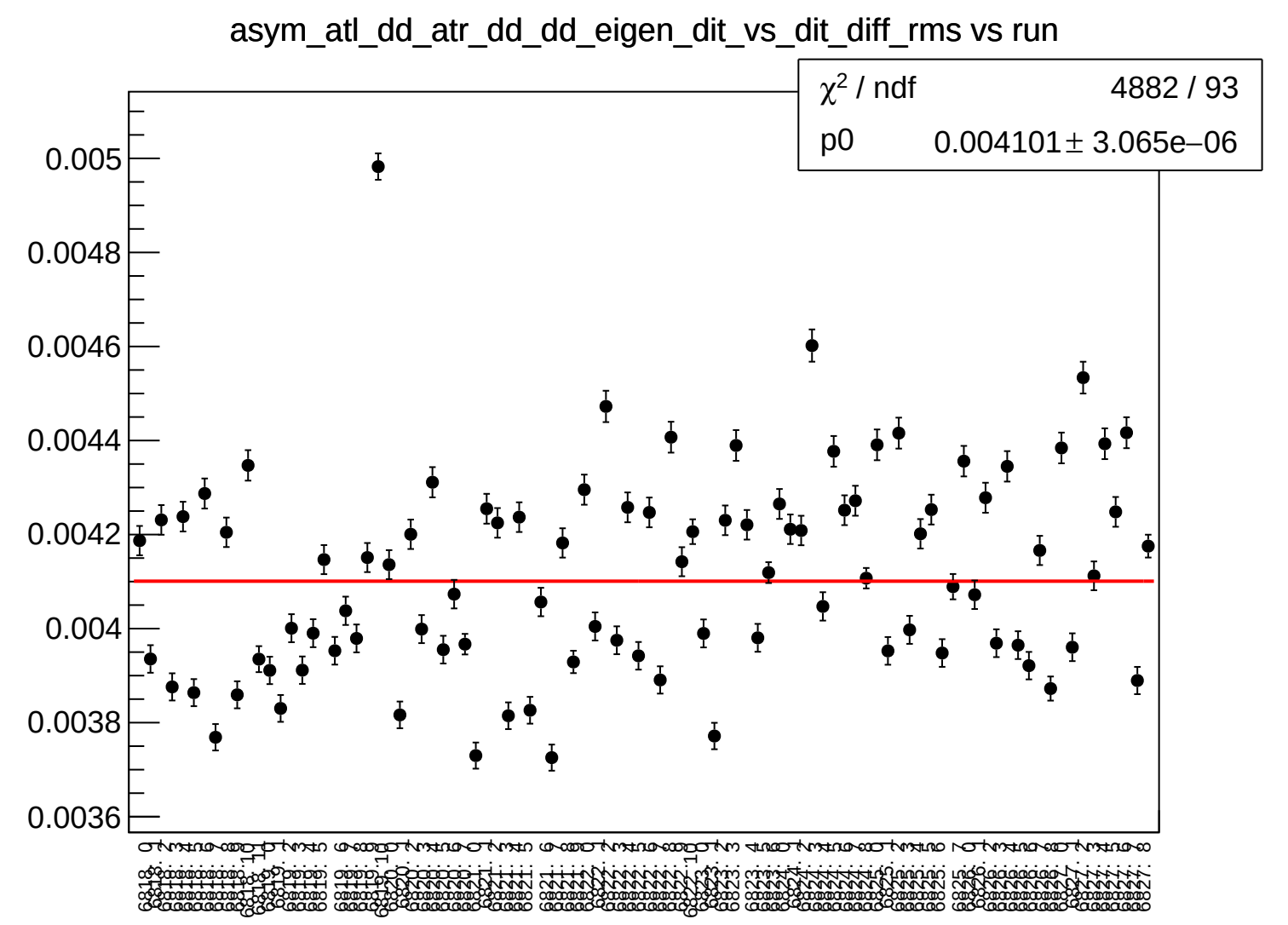

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02608 ± 0.03996
pull
Entries 94
Mean 833.9
Std Dev 0

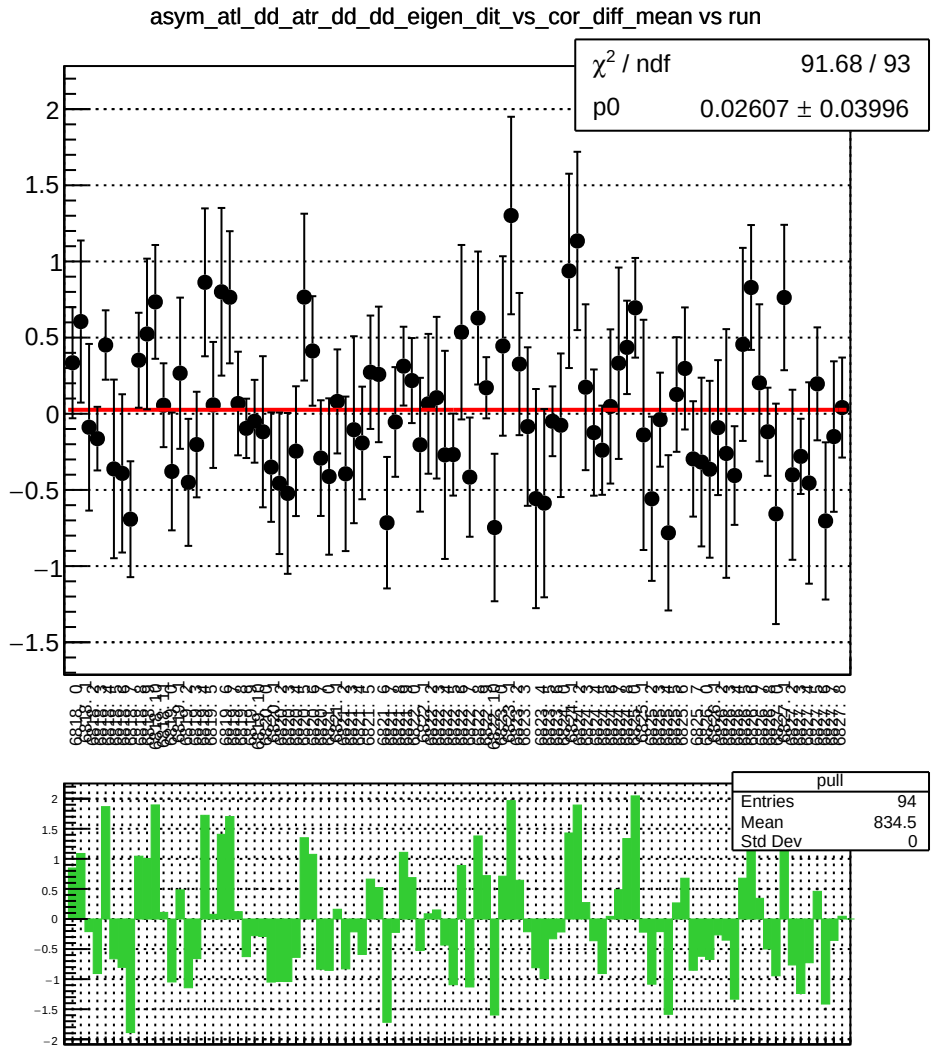

pull1D
Entries 94
Mean −0.003097
Std Dev 0.9876

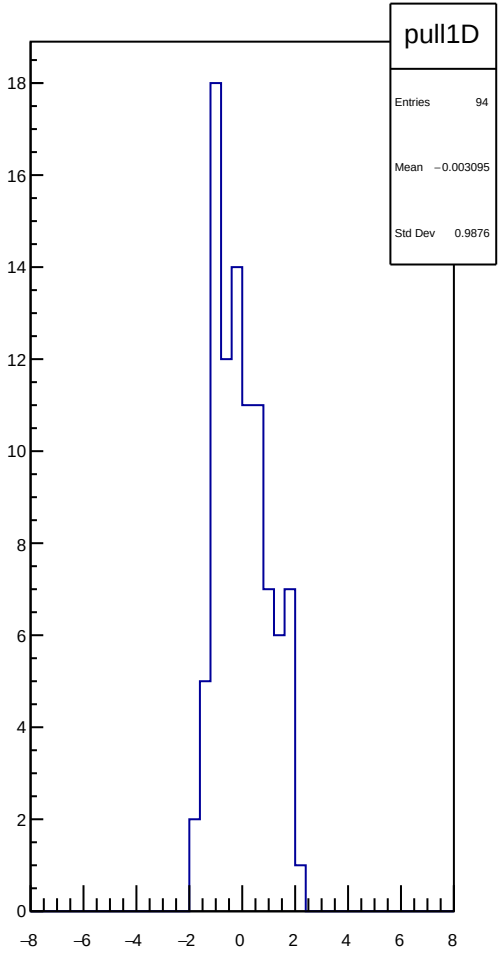

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.667e+05 / 93
p0 36.06 ± 0.02826
80
70
60
50
40
30
20

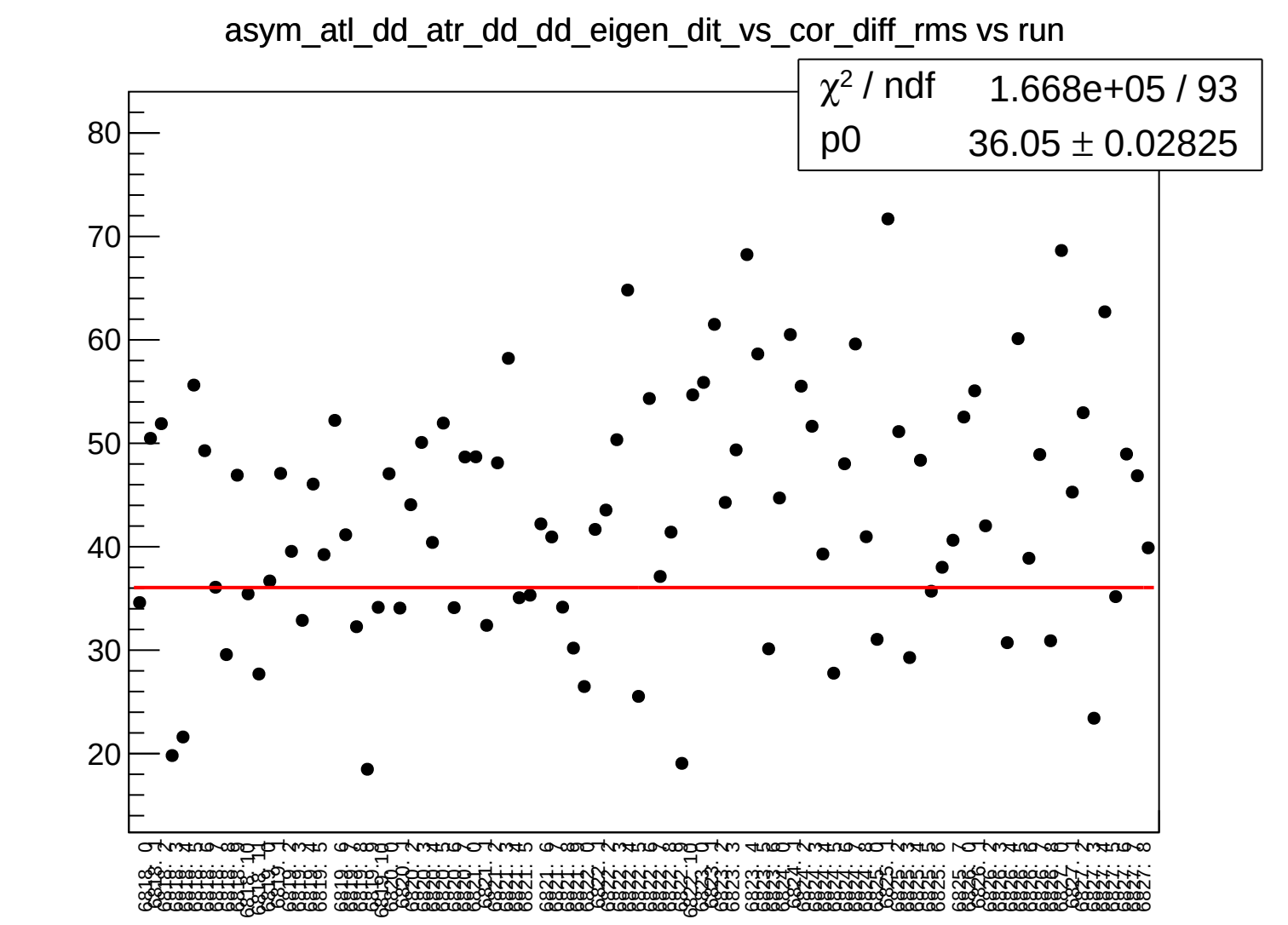

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.73 / 93
p0 2.919e−07 ± 4.334e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −3910
Std Dev 0
2
1
0
−1
−2
−3

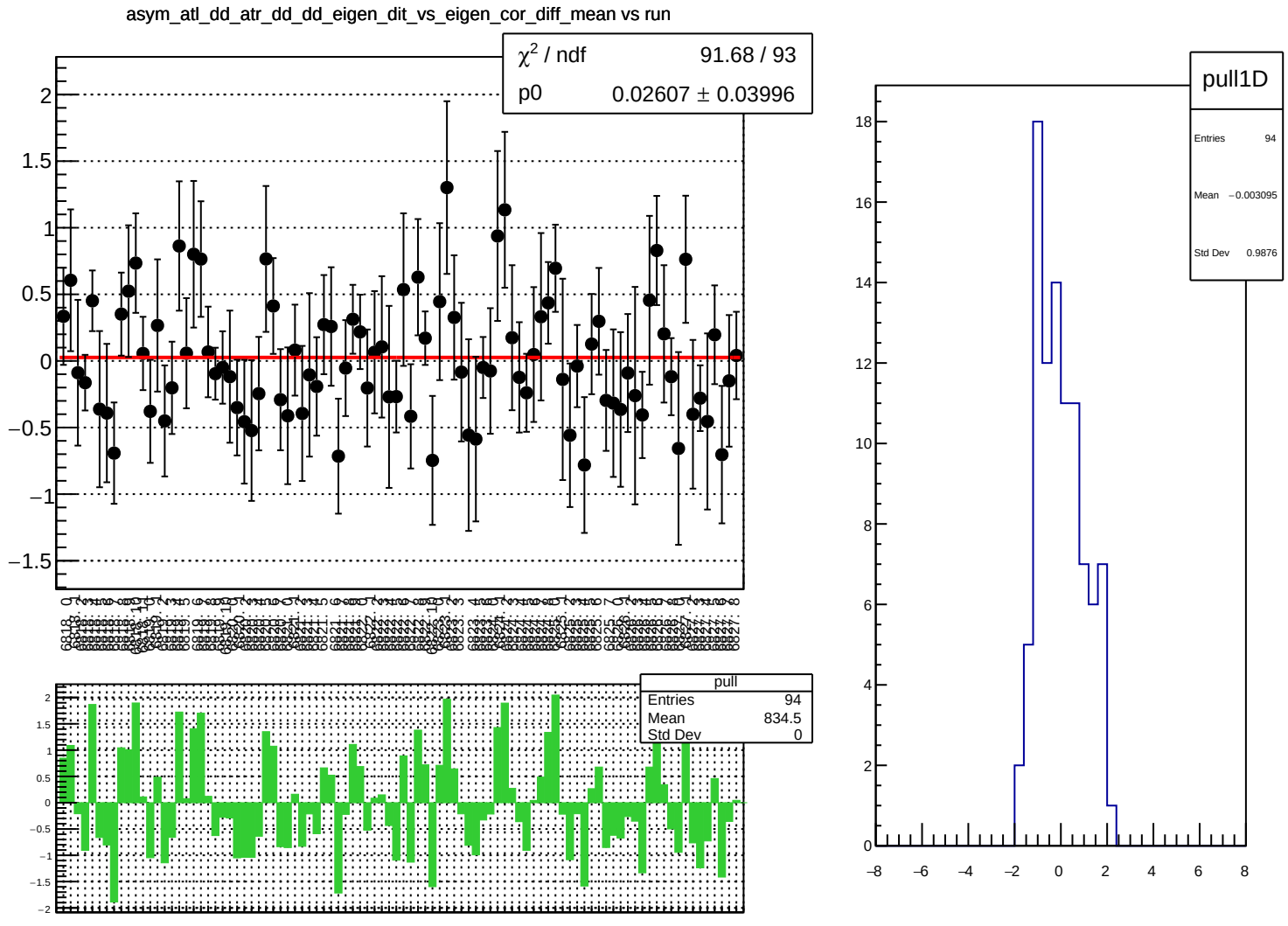

pull1D
Entries 94
Mean −0.0003364
Std Dev 0.9932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

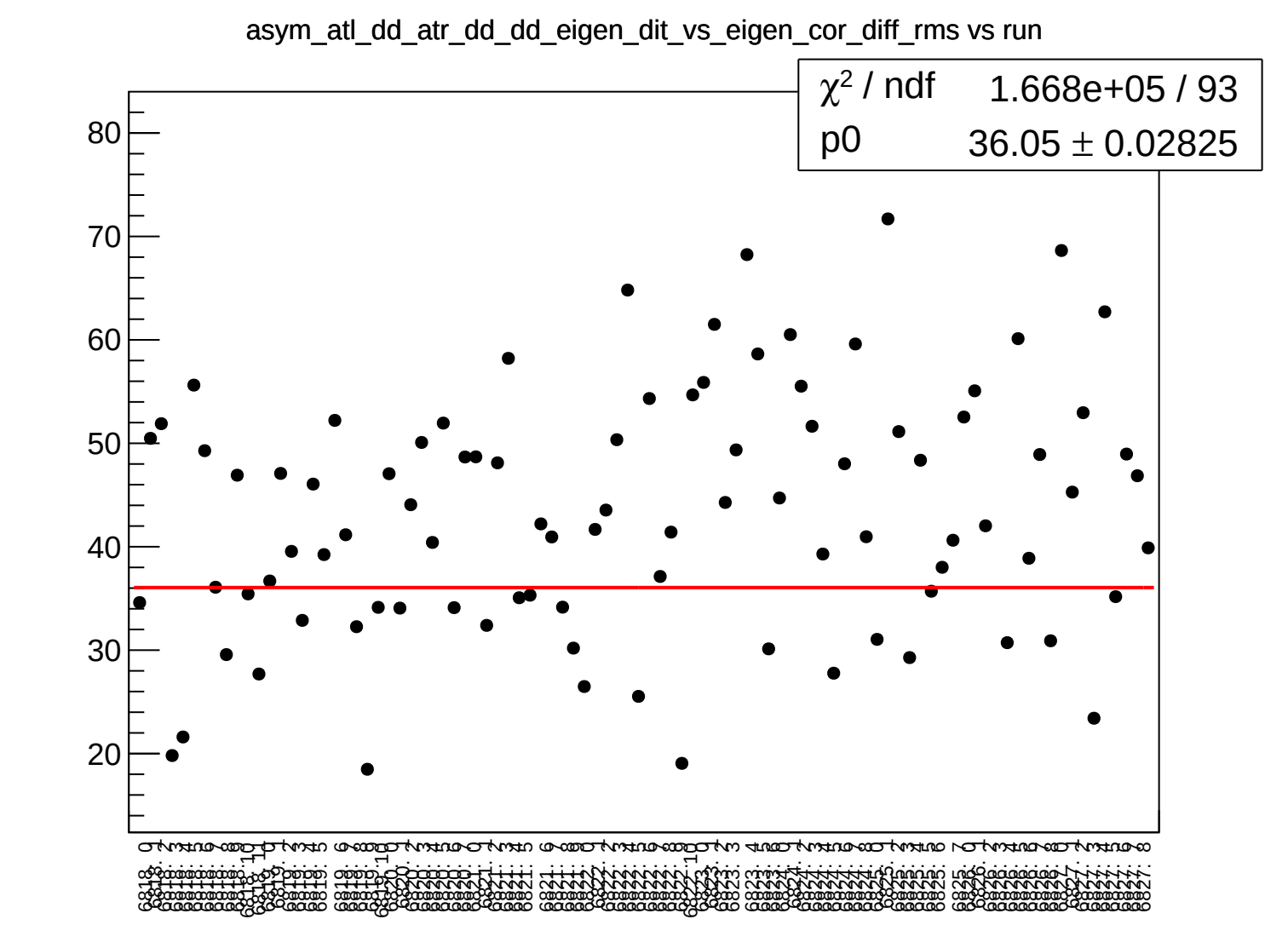

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4882 / 93
p0 0.004101 ± 3.065e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

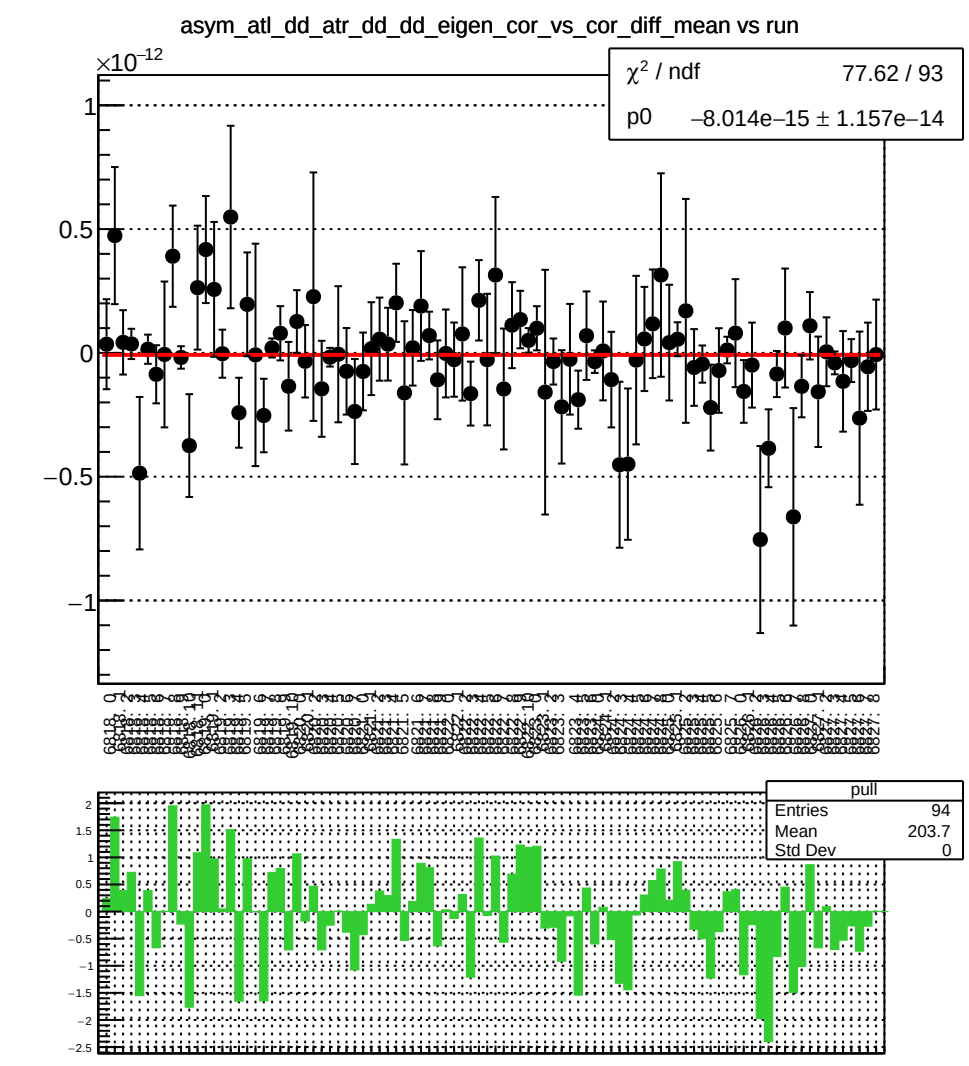

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02607 ± 0.03996
pull
Entries 94
Mean 834.5
Std Dev 0

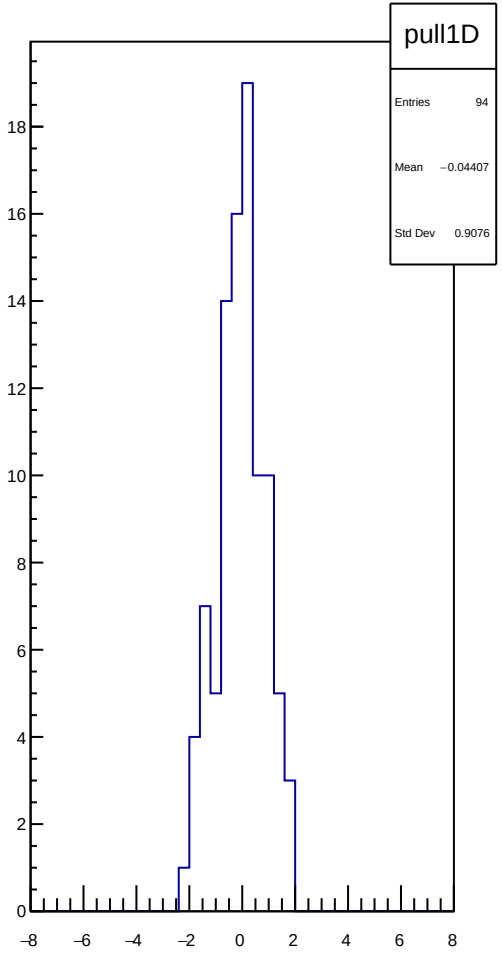

pull1D
Entries 94
Mean −0.003095
Std Dev 0.9876

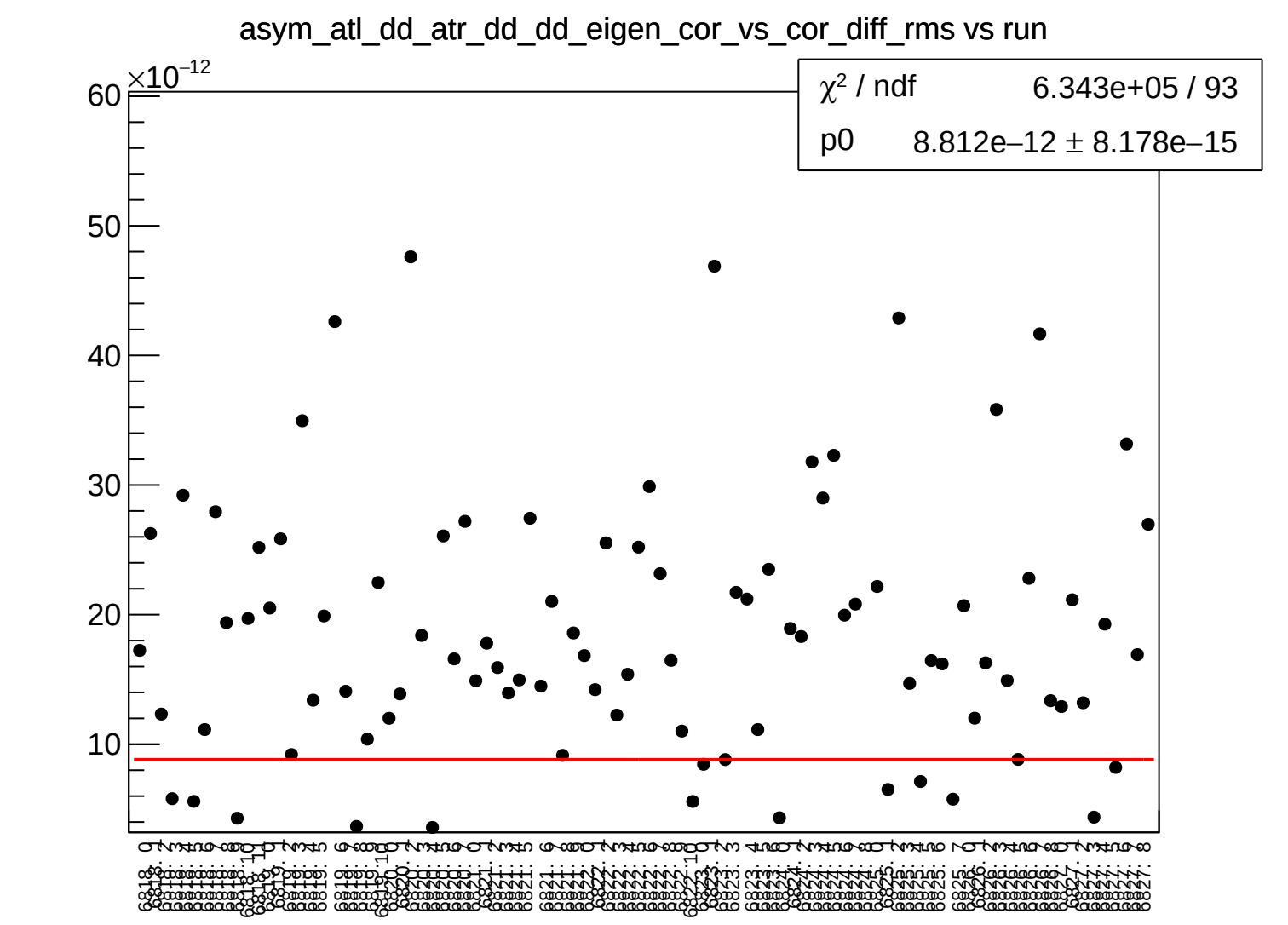

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.668e+05 / 93
p0 36.05 ± 0.02825
80
70
60
50
40
30
20

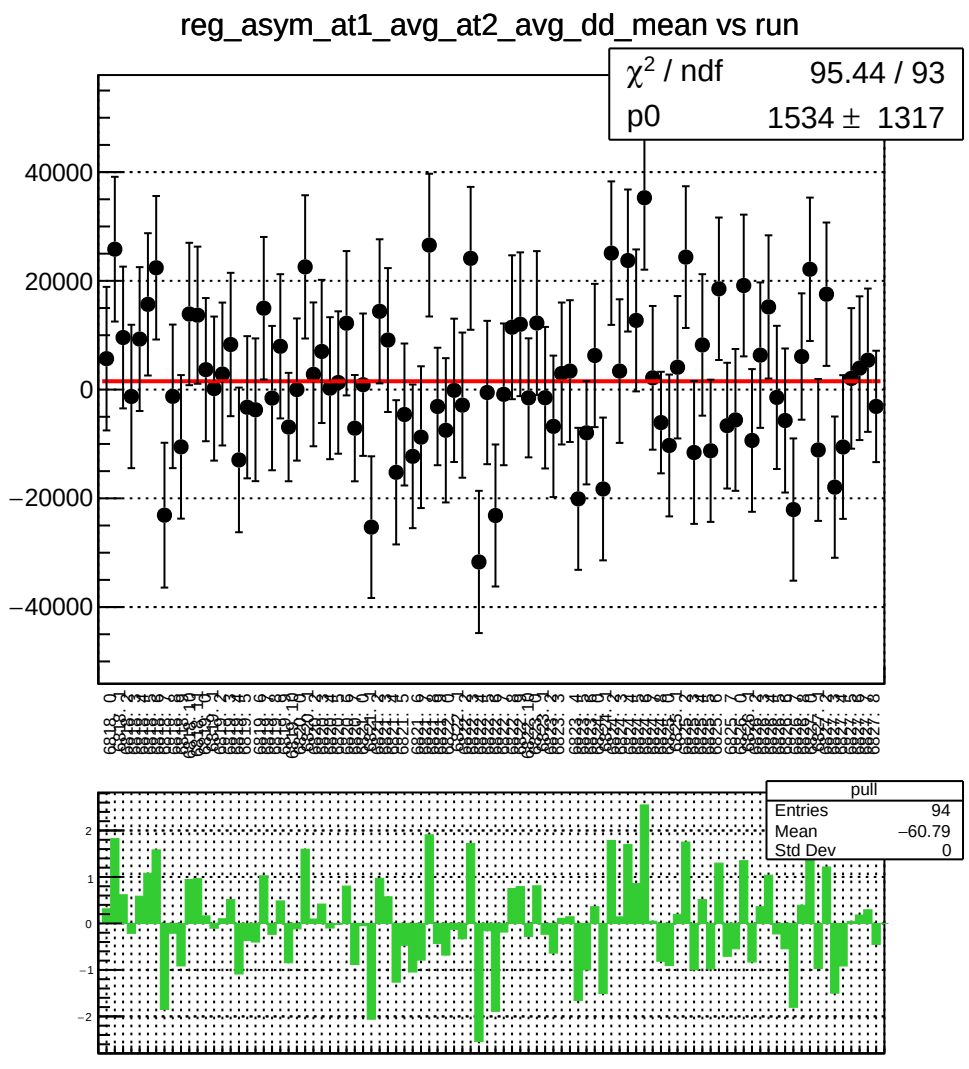

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02607 ± 0.03996
pull
Entries 94
Mean 834.5
Std Dev 0
pull1D
Entries 94
Mean −0.003095
Std Dev 0.9876

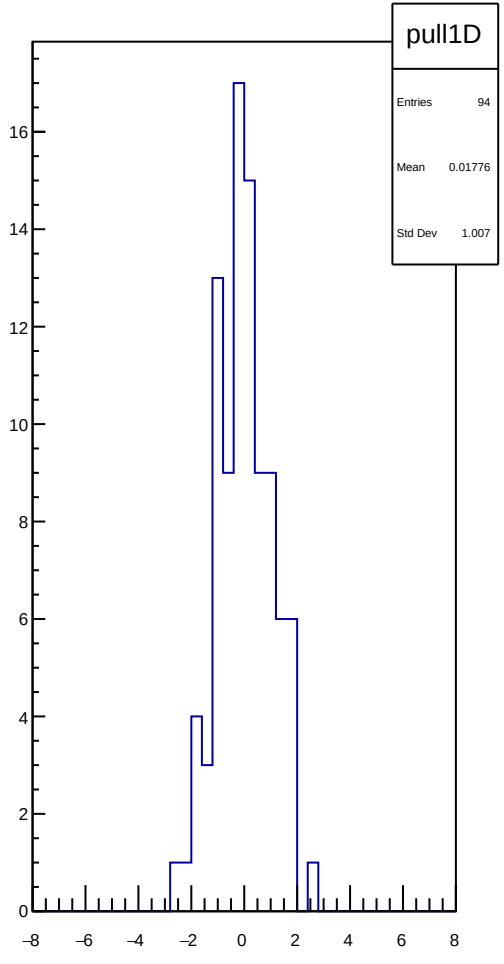

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.668e+05 / 93
p0 36.05 ± 0.02825
80
70
60
50
40
30
20

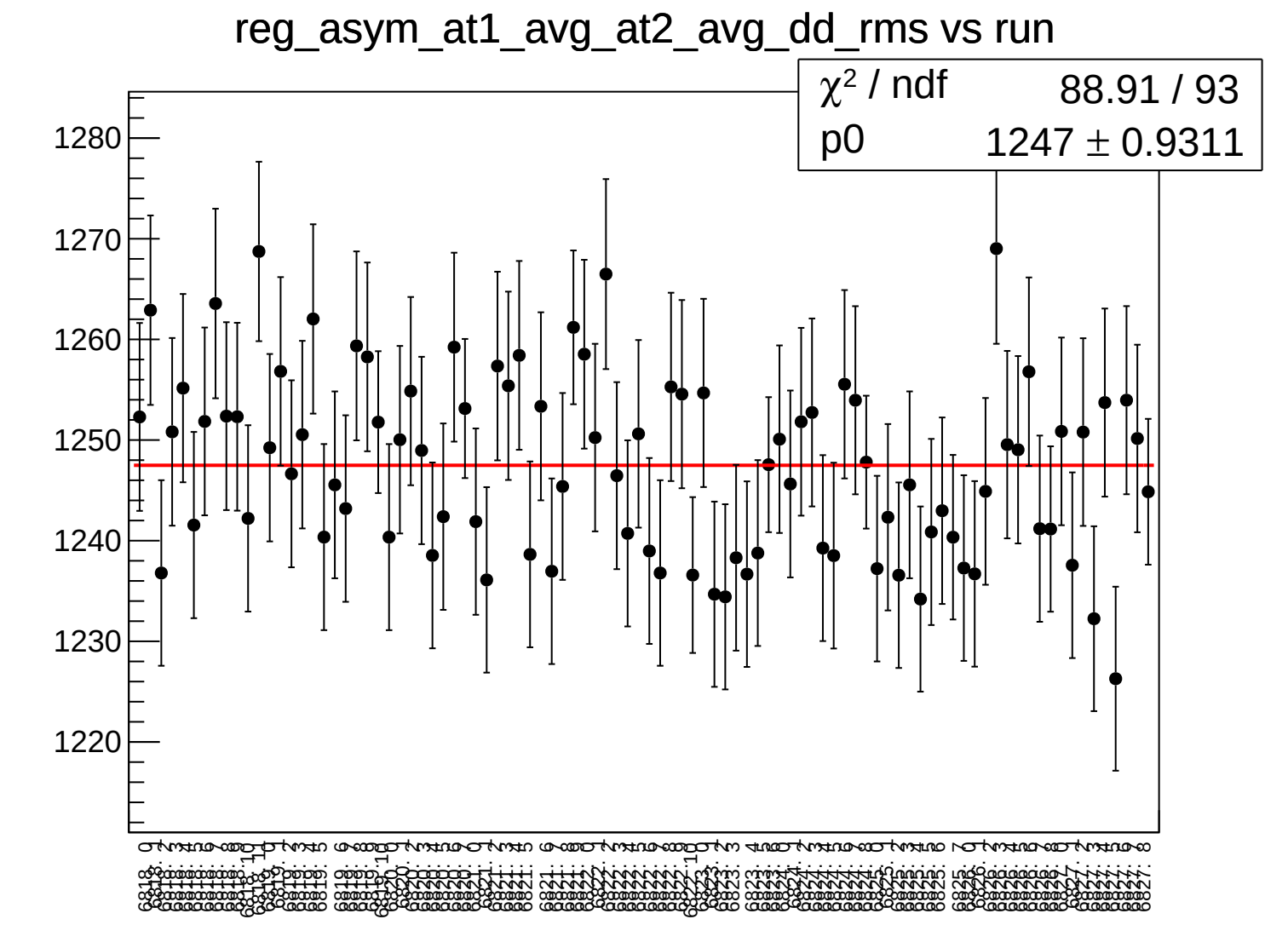

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.62 / 93
p0 −8.014e−15 ± 1.157e−14
pull
Entries 94
Mean 203.7
Std Dev 0

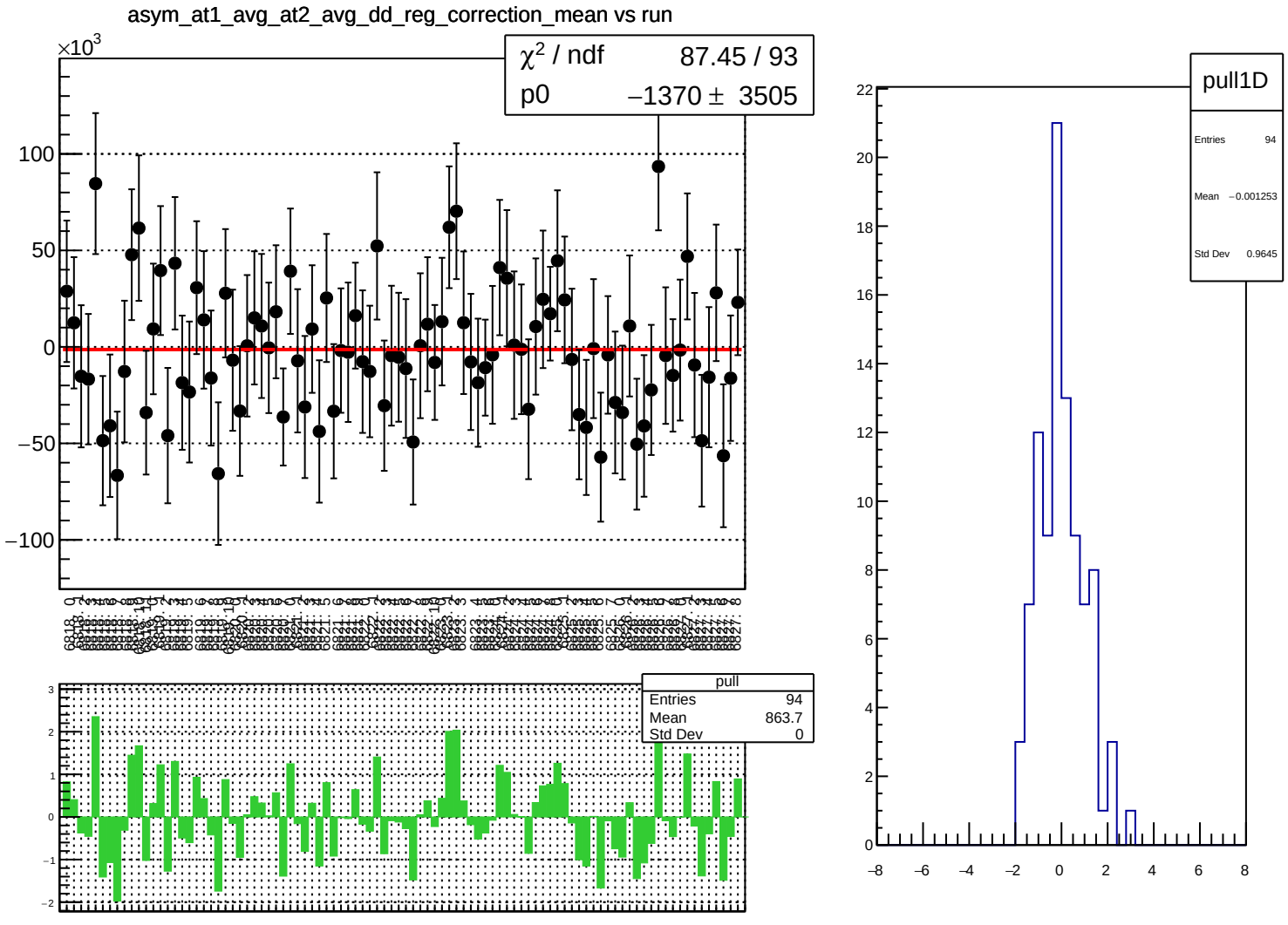

pull1D
Entries 94
Mean −0.04407
Std Dev 0.9076

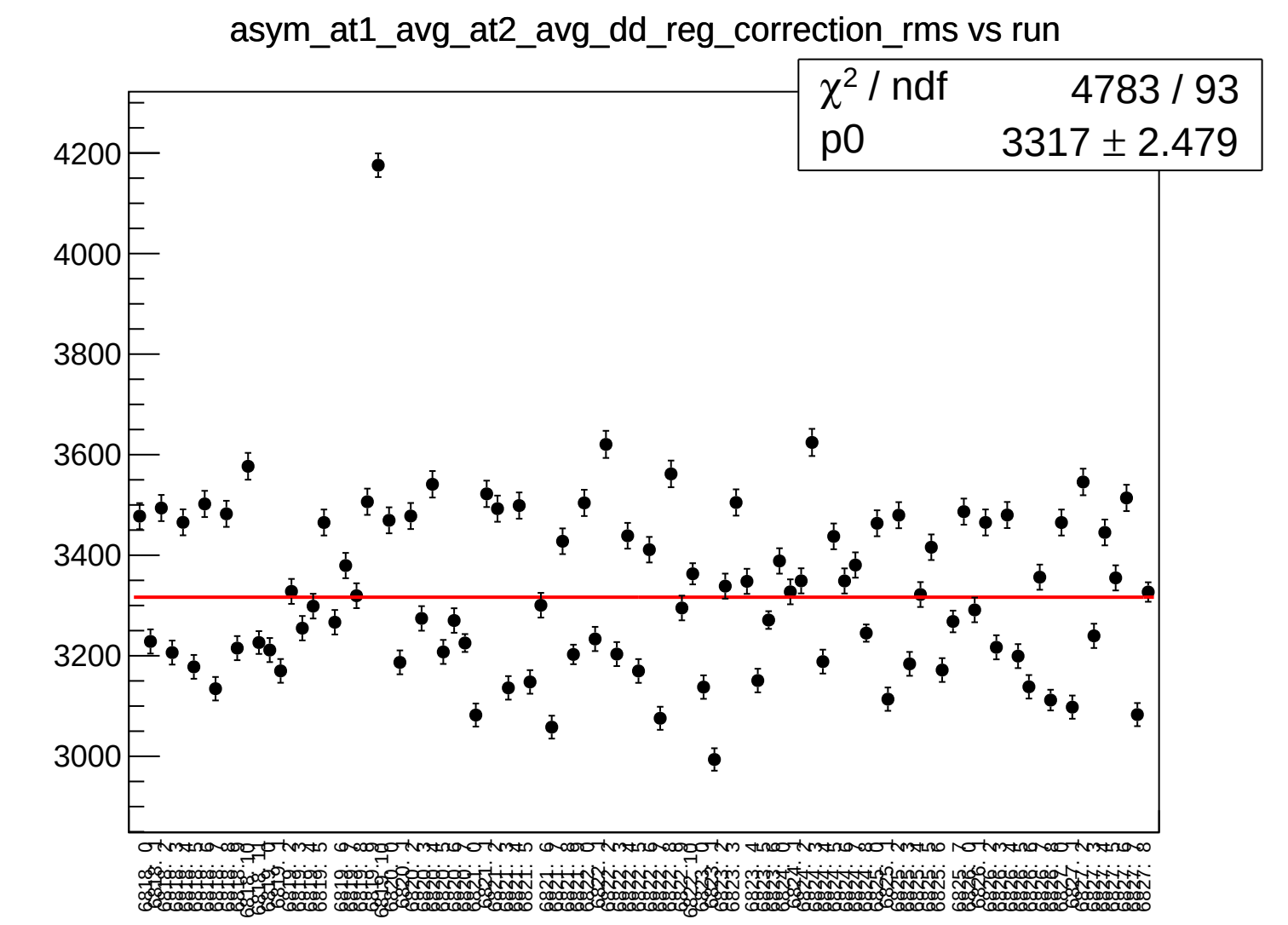

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 6.343e+05 / 93
p0 8.812e−12 ± 8.178e−15

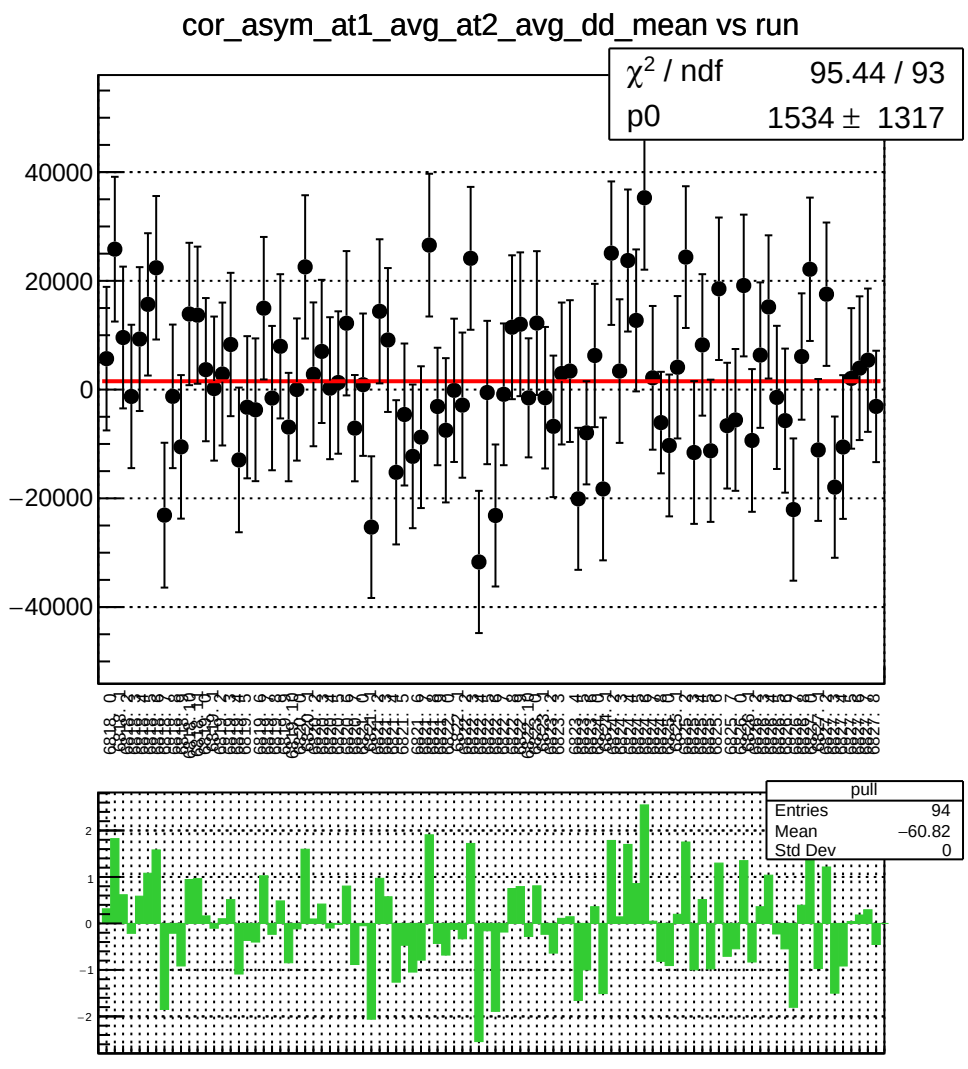

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.79
Std Dev 0
2
1
0
−1
−2

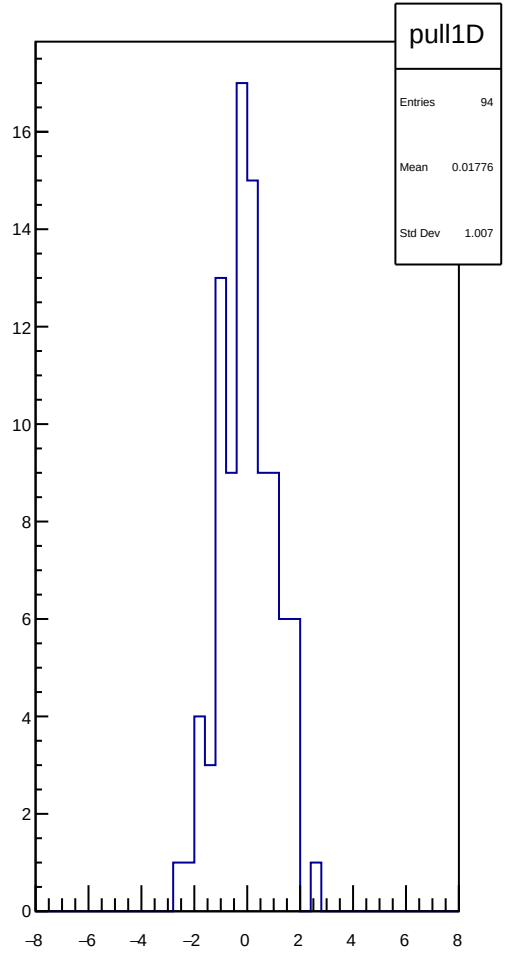

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

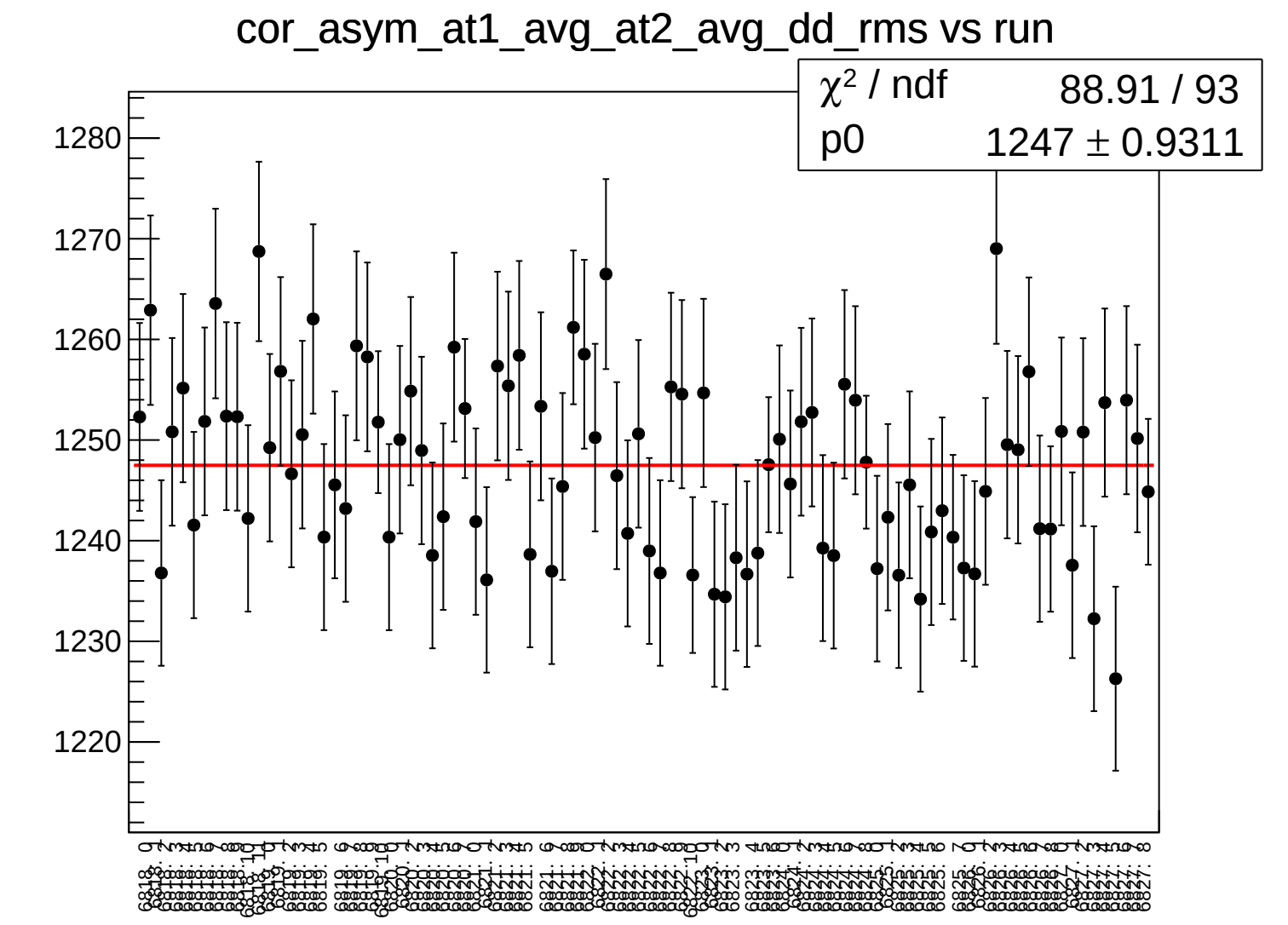

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

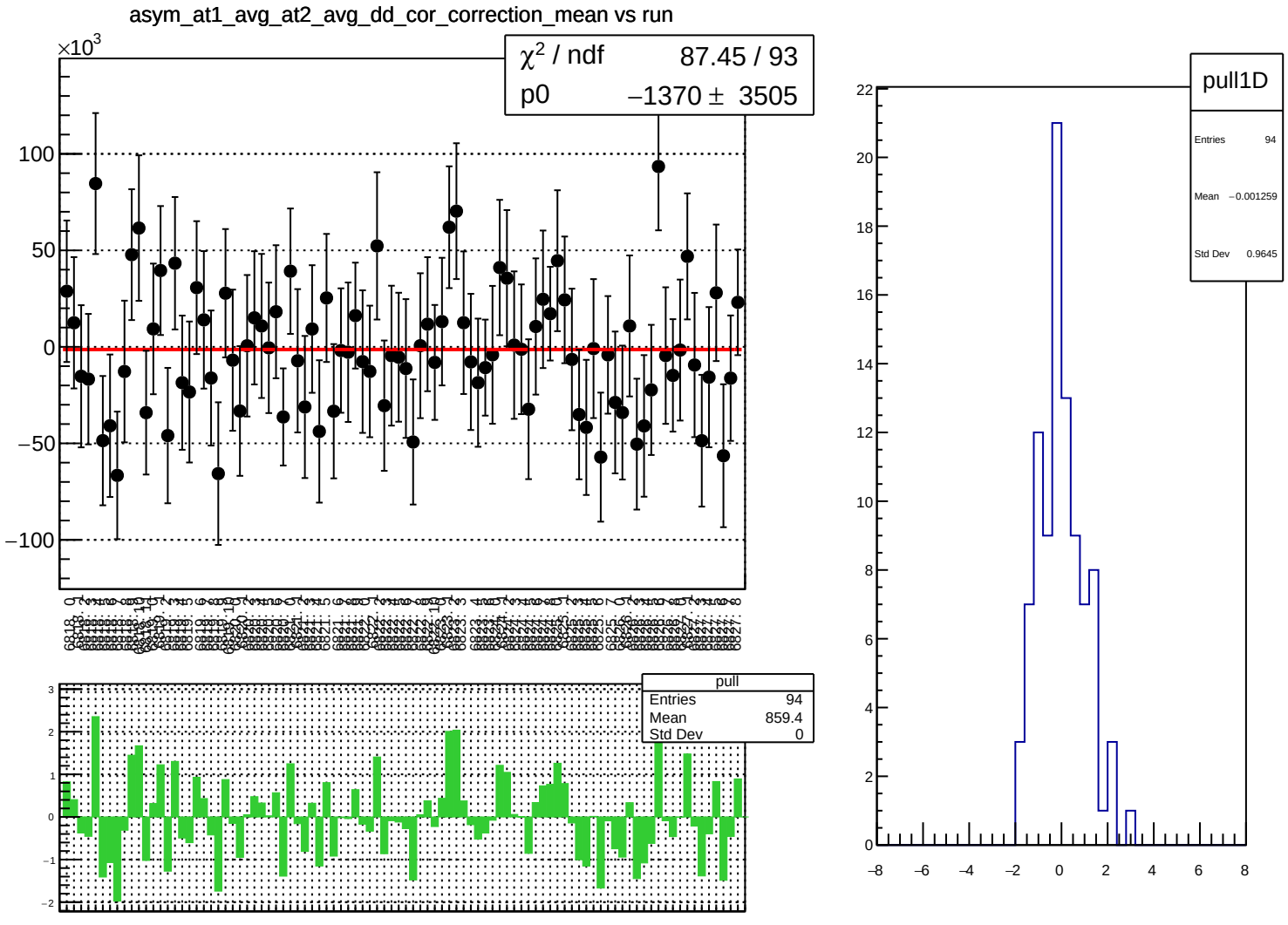

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 863.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001253
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

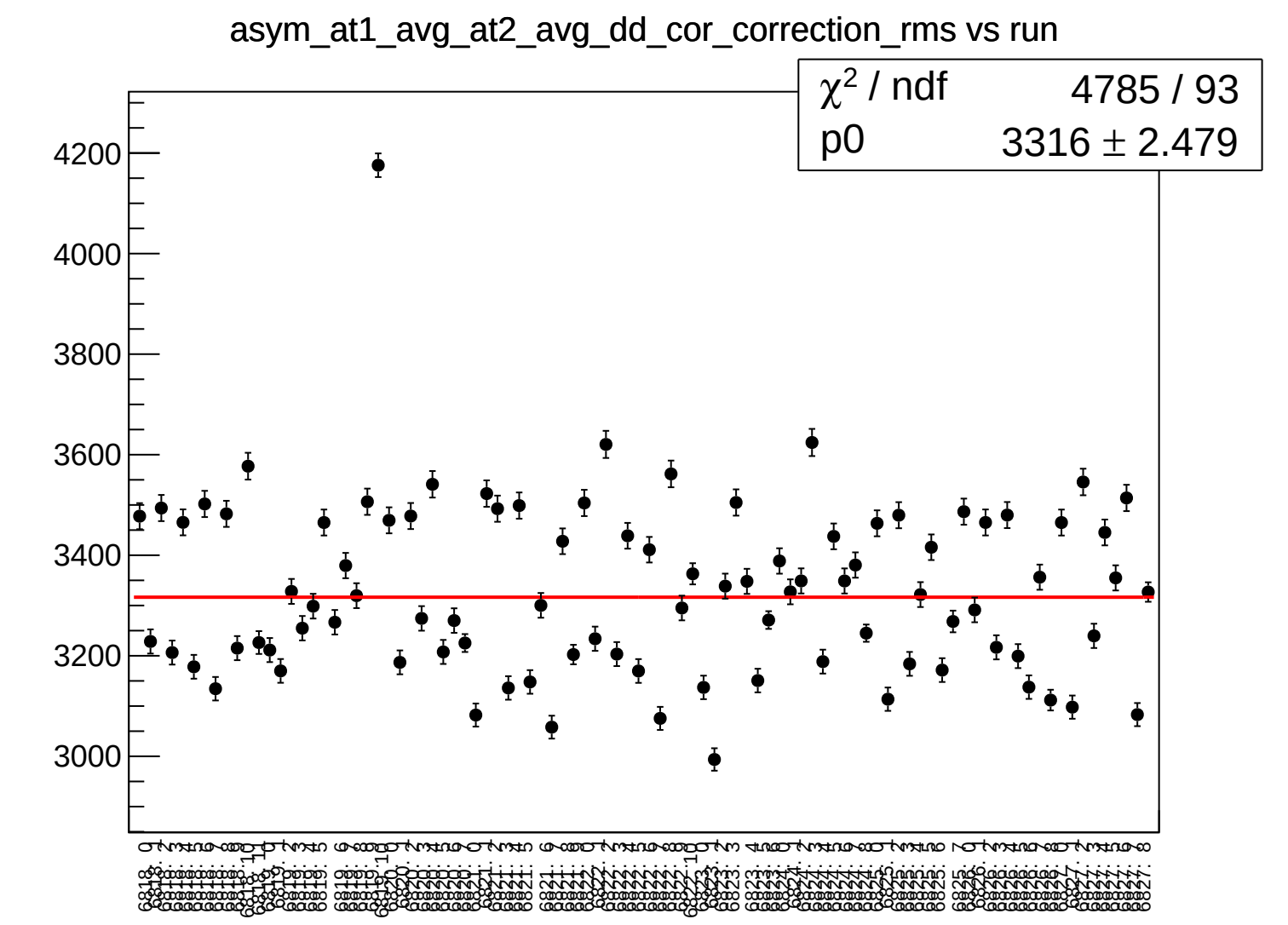

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 4783 / 93
p0 3317 ± 2.479
4200
4000
3800
3600
3400
3200
3000

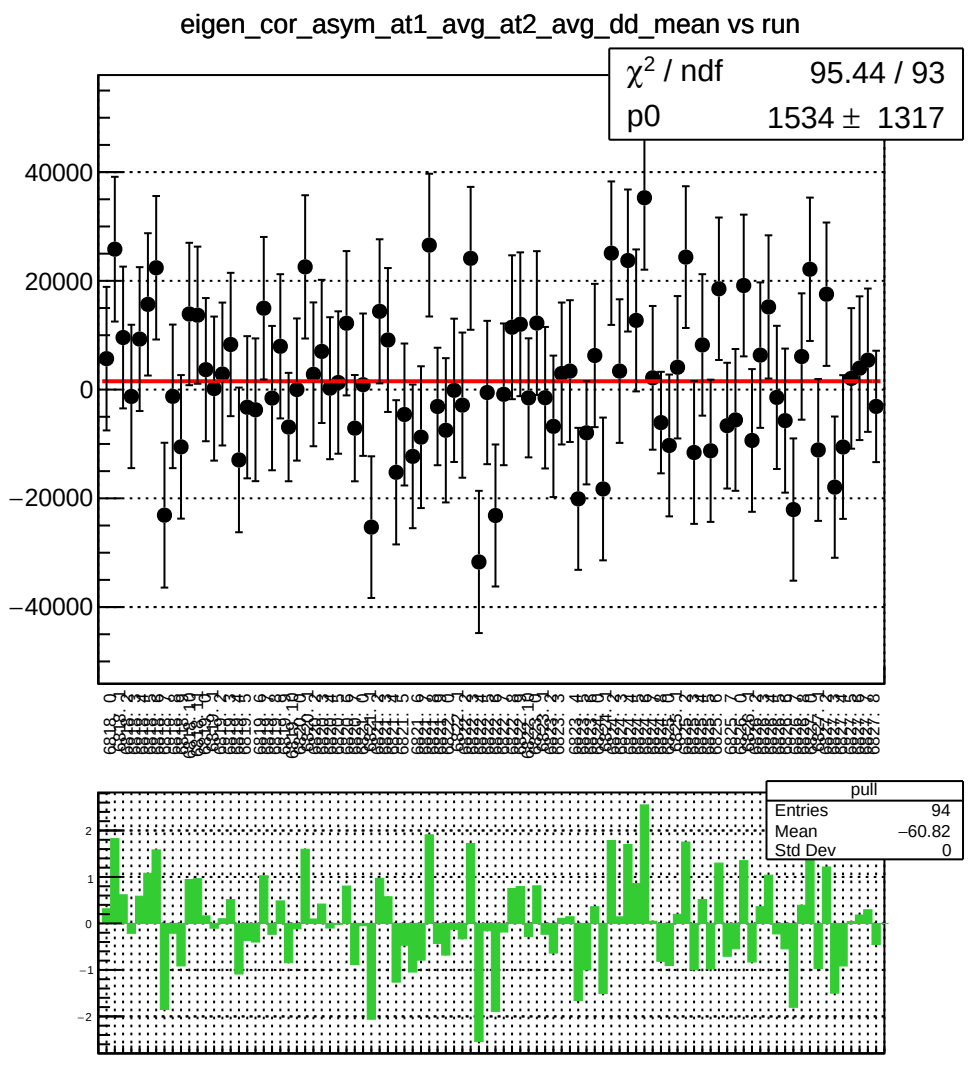

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2

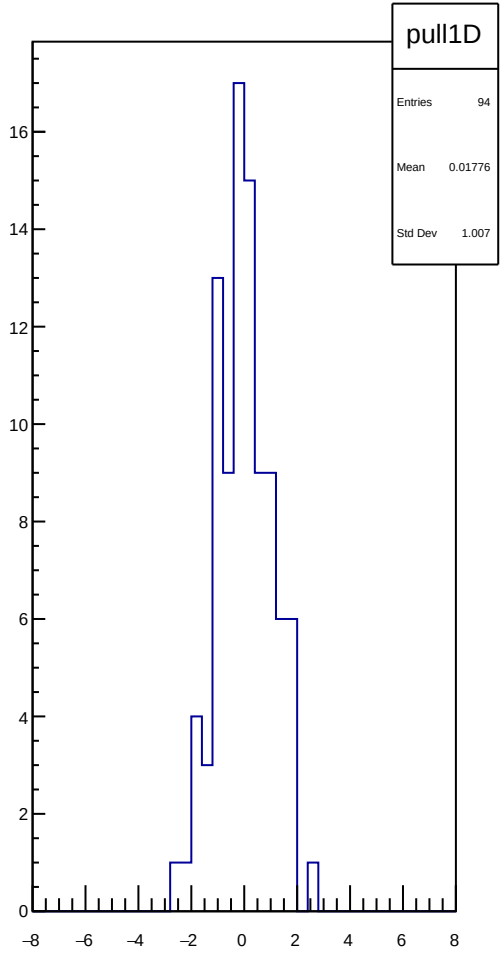

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

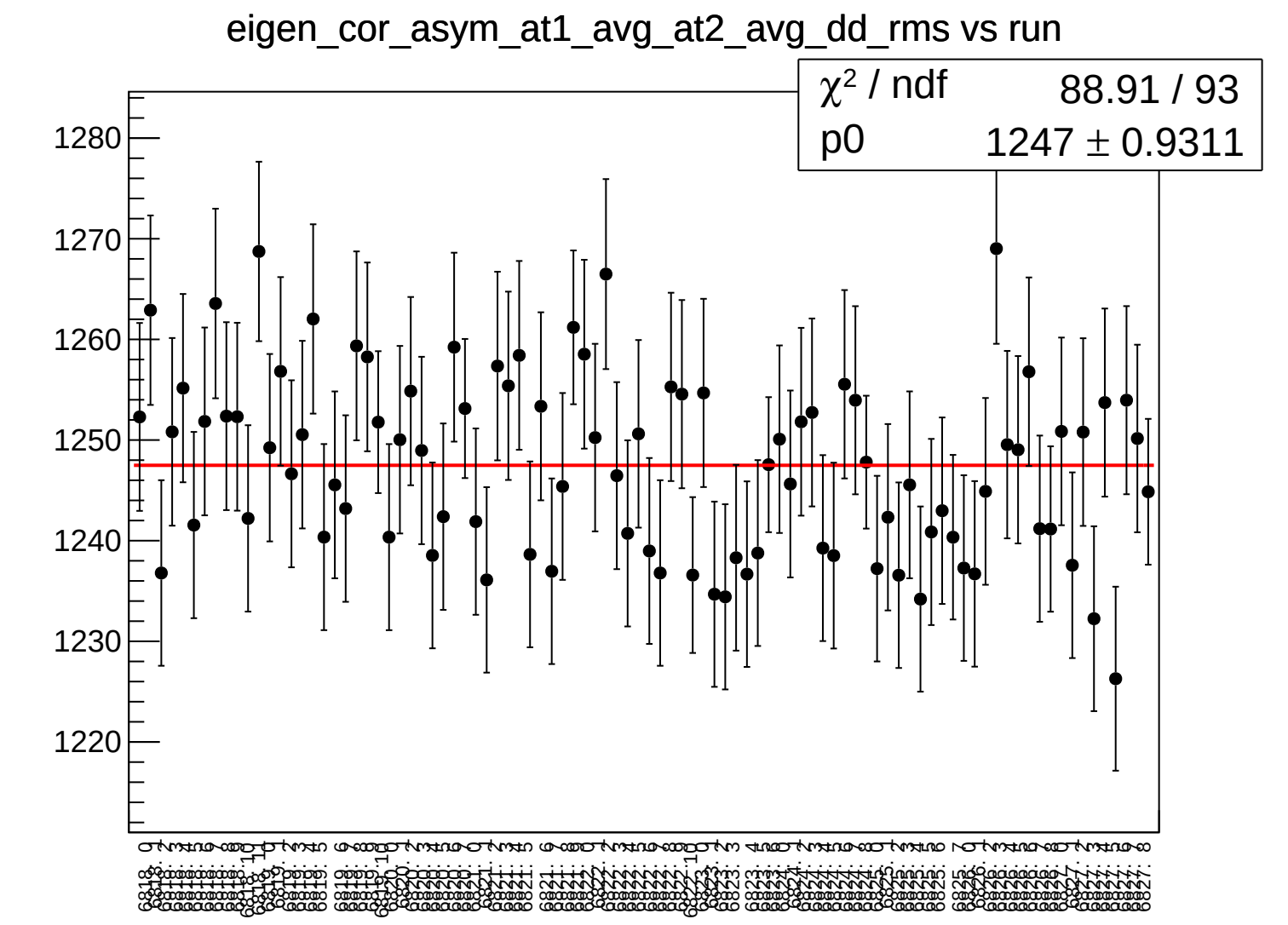

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

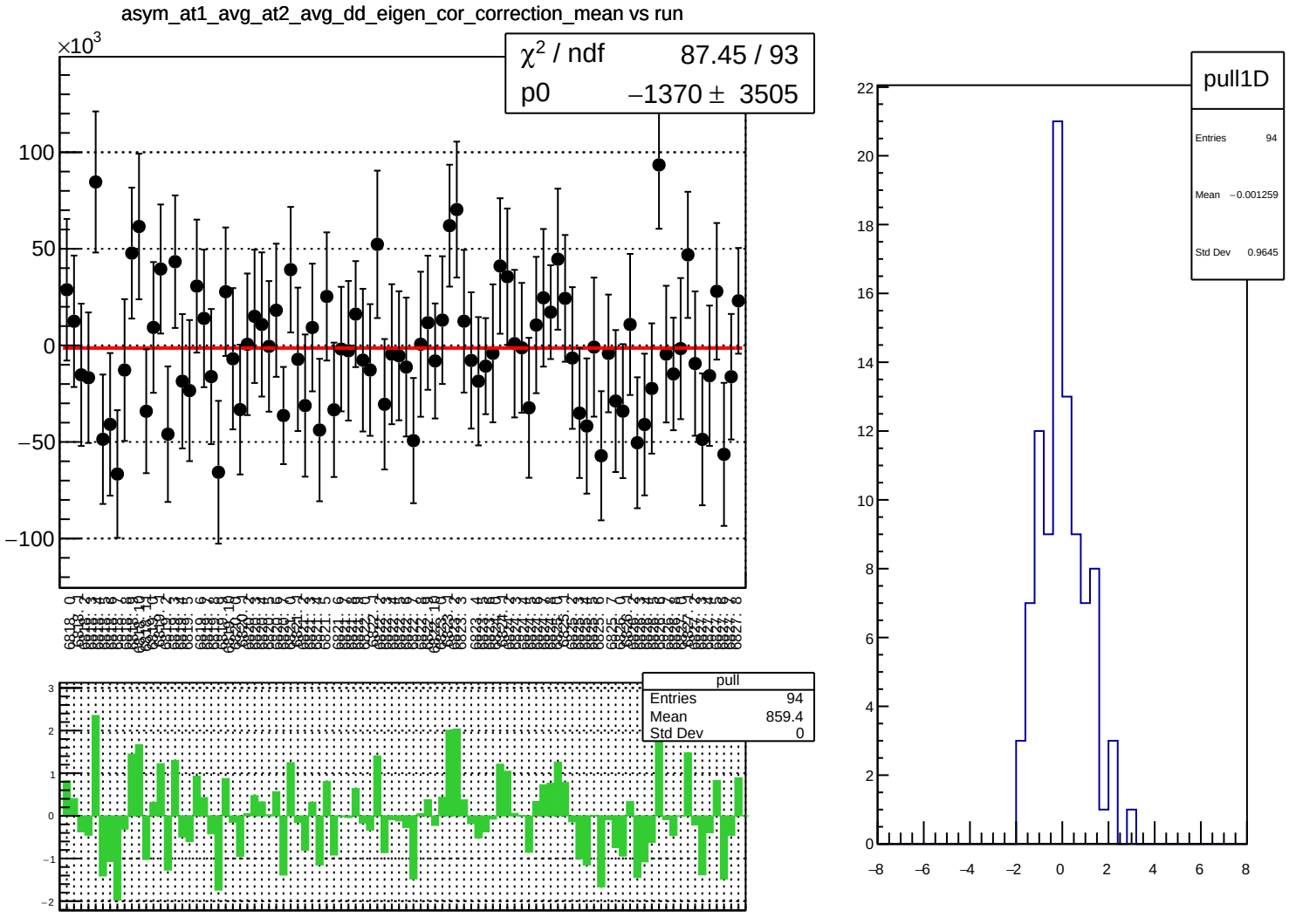

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

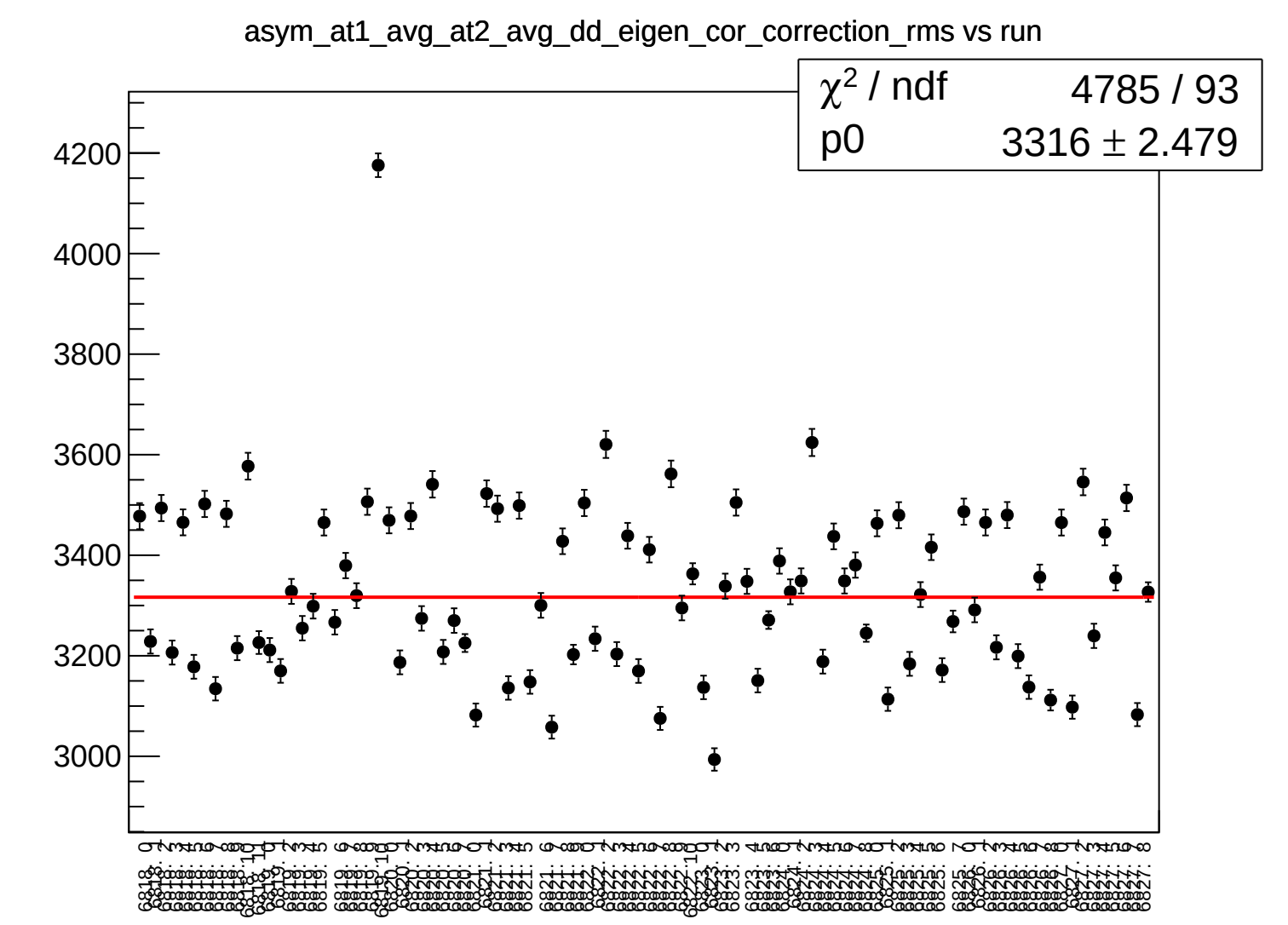

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000

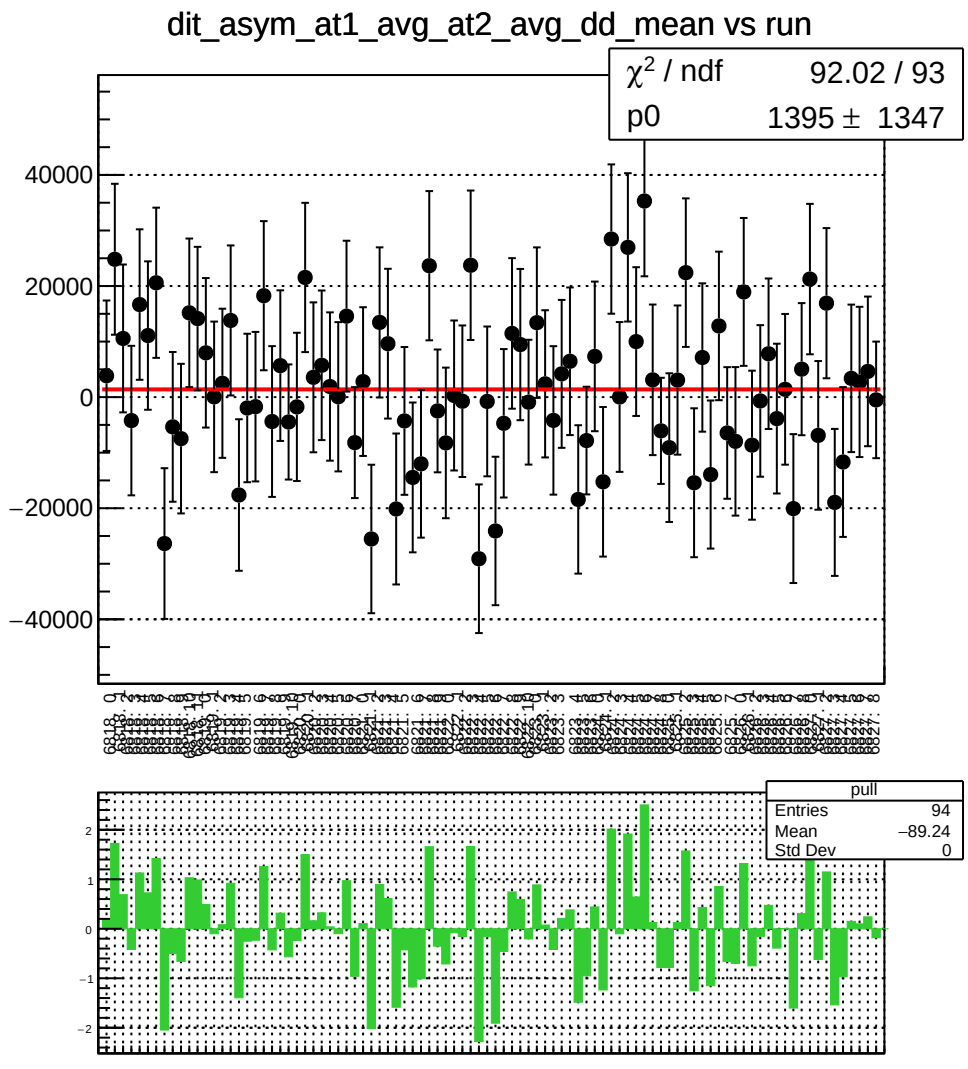

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2

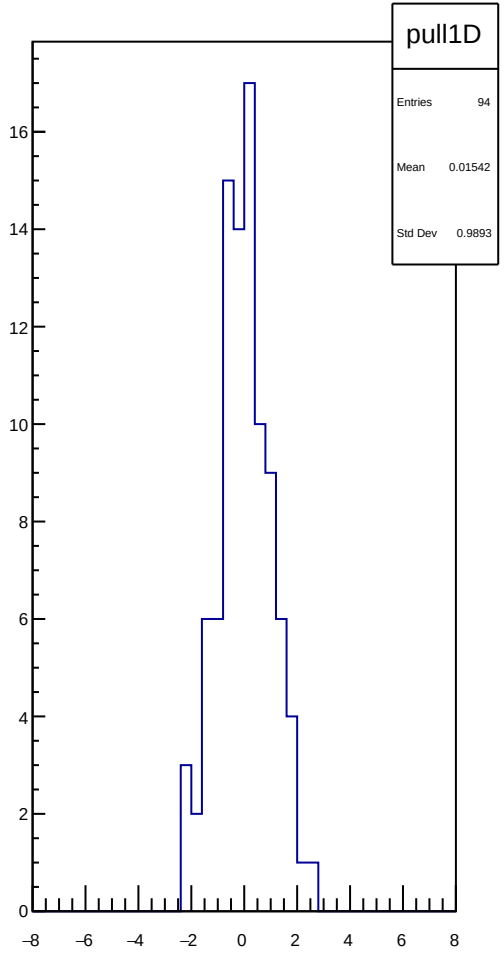

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

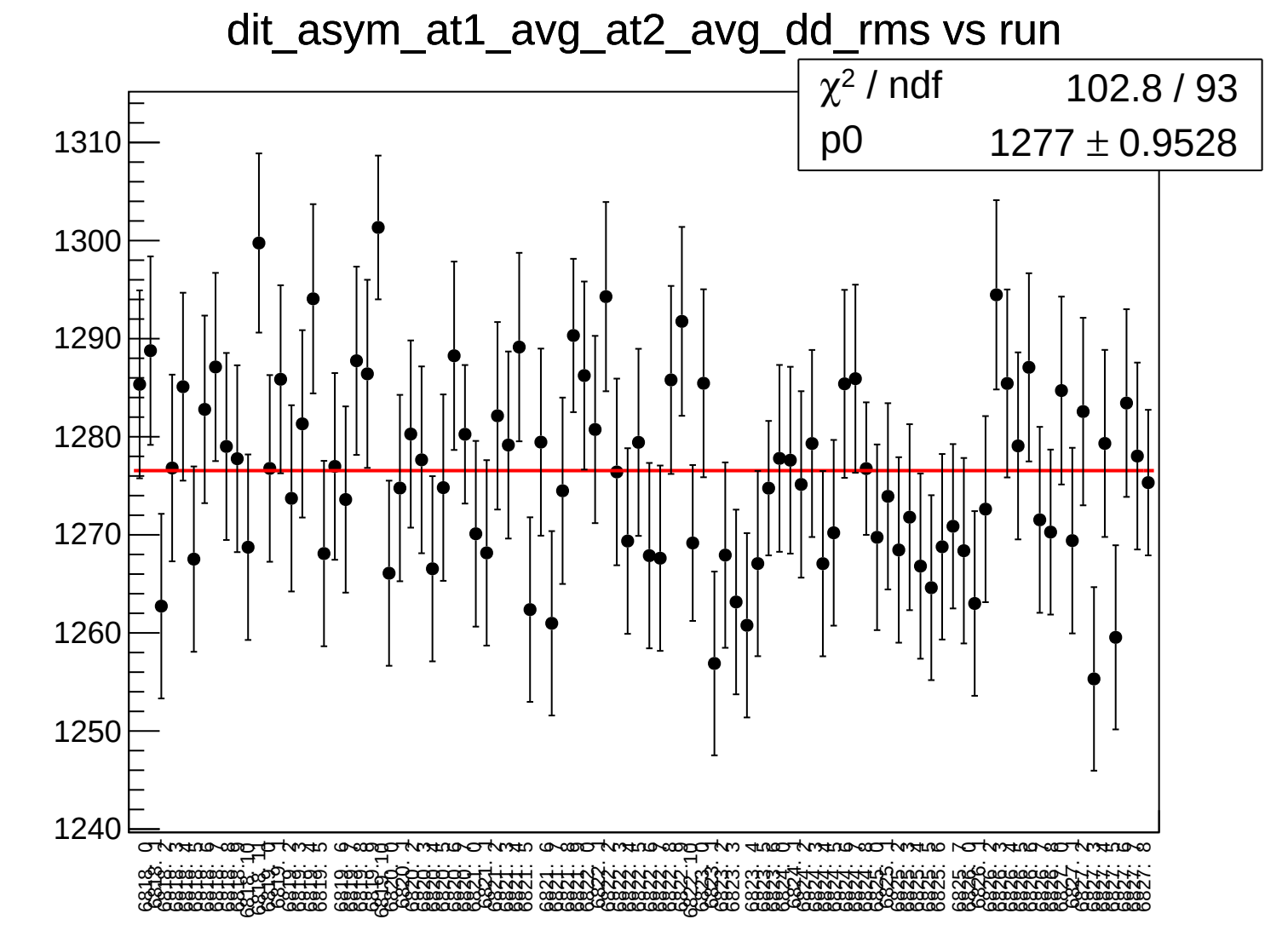

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

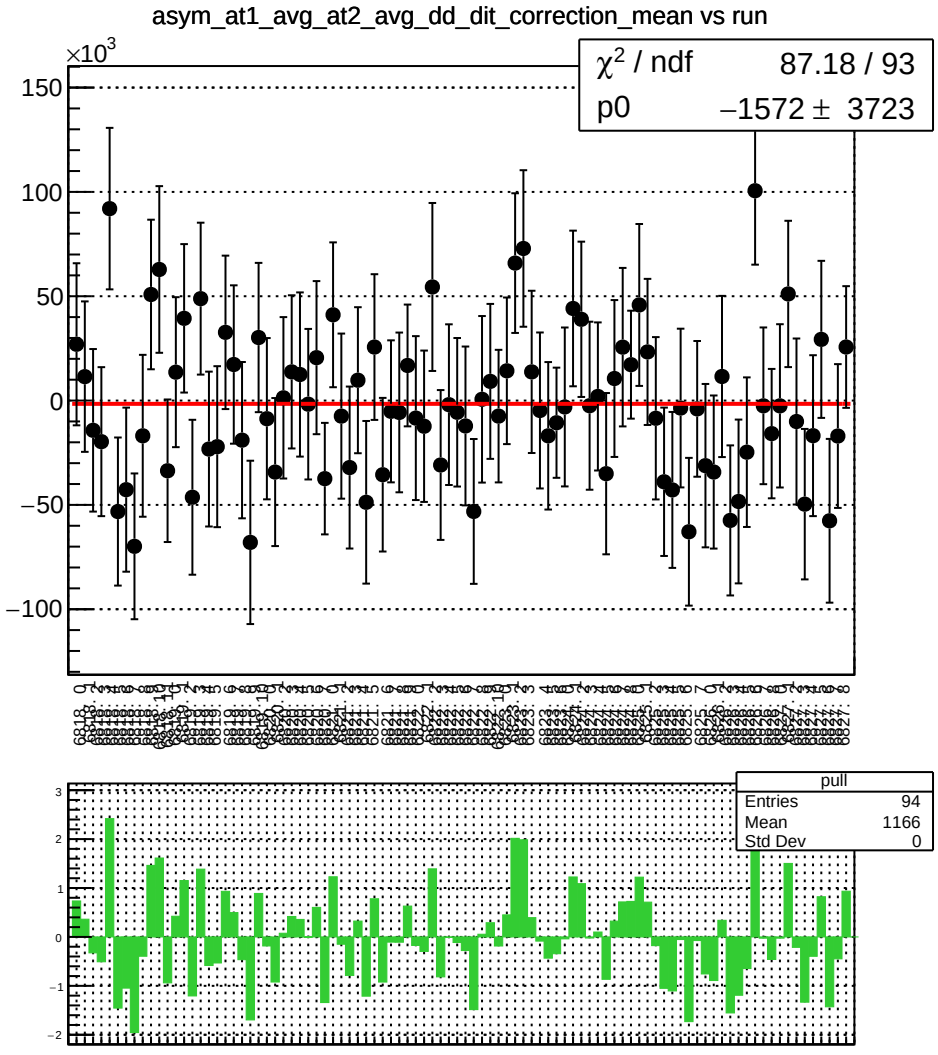

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

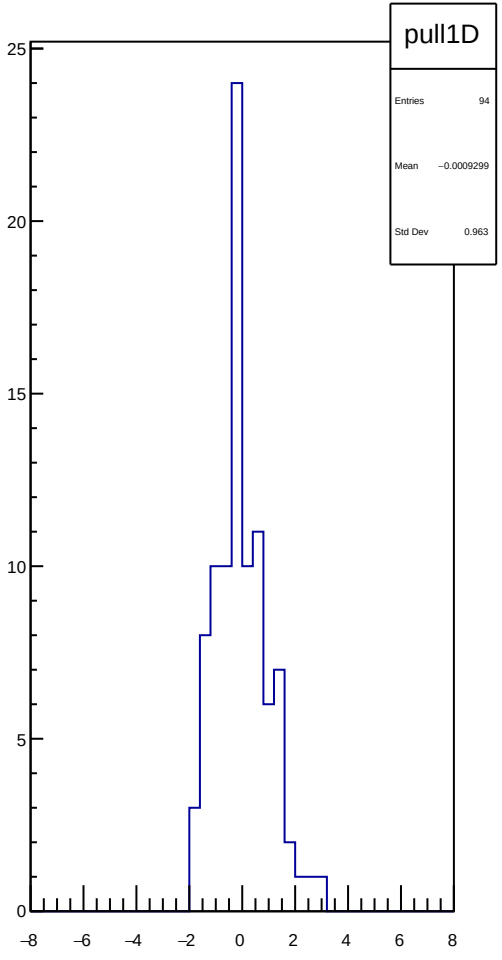

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000

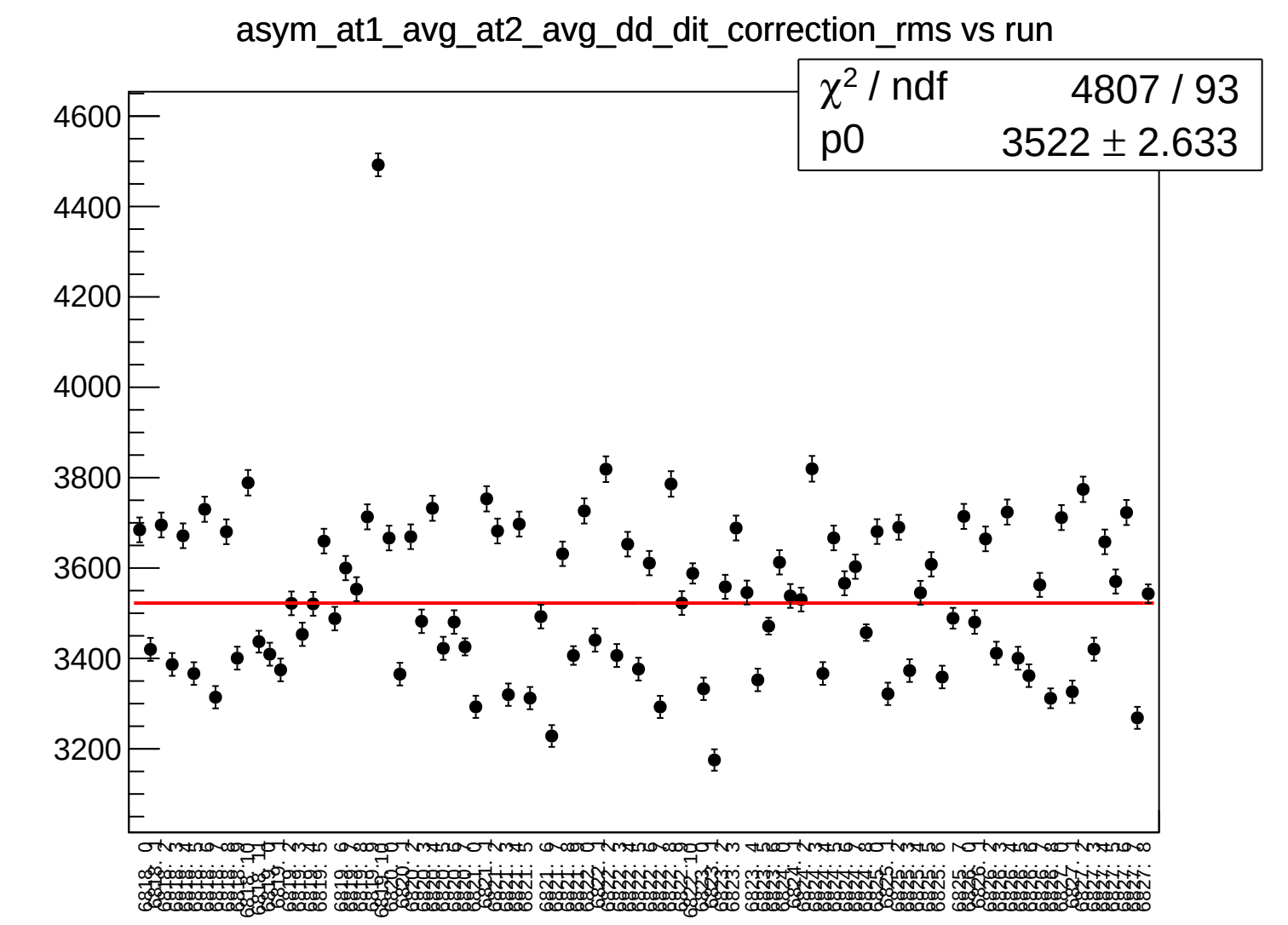

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2

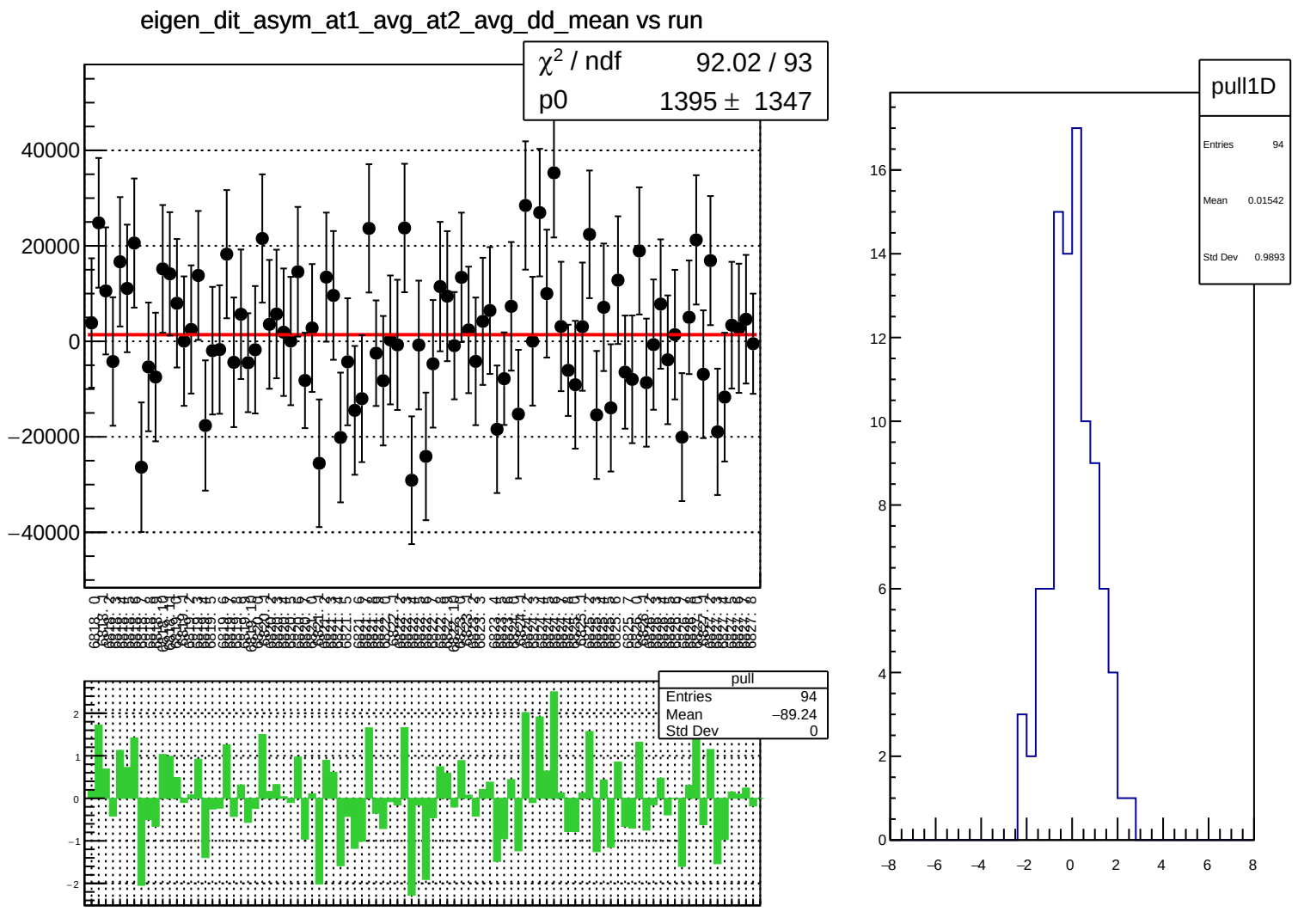

pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

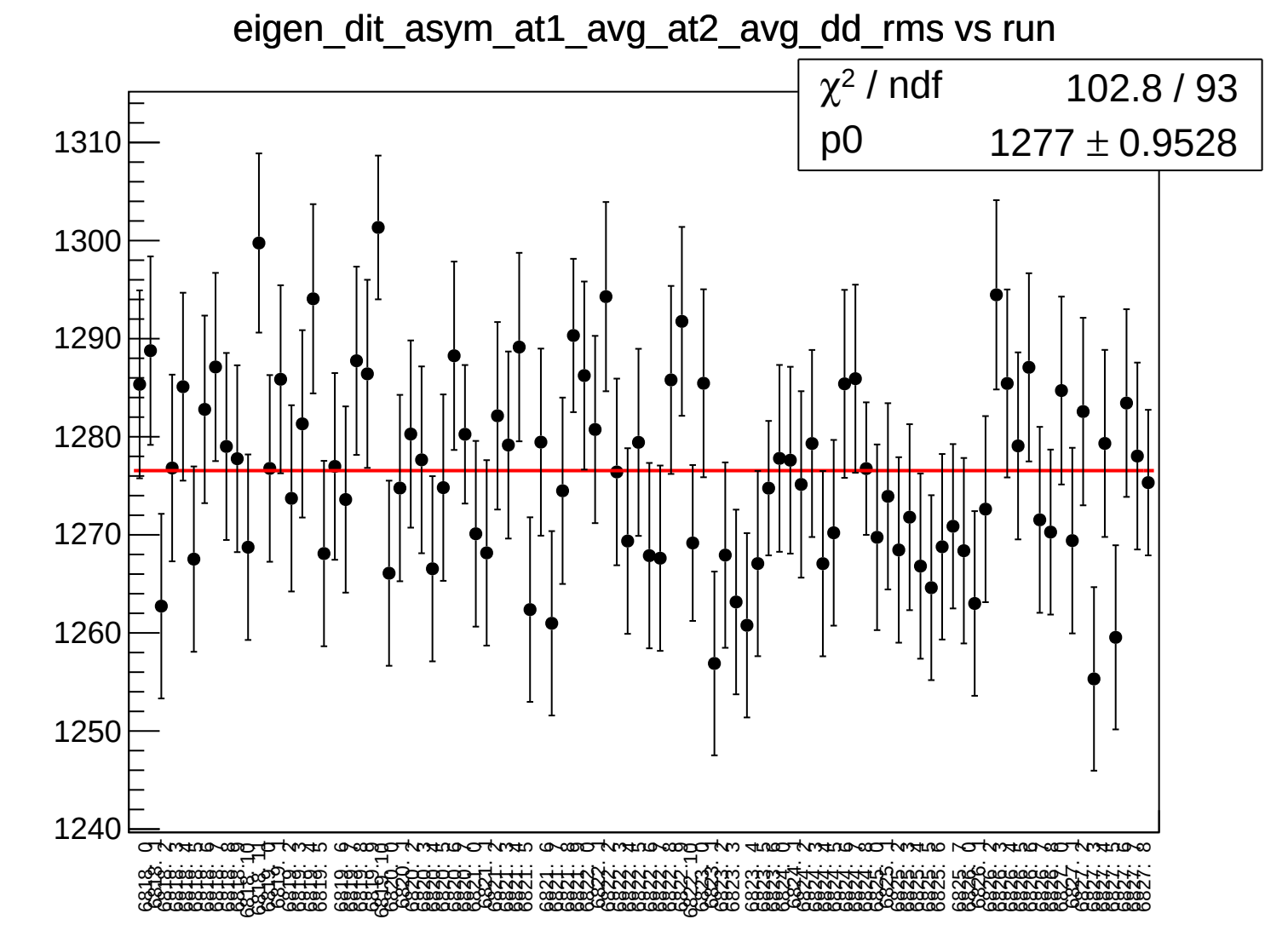

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

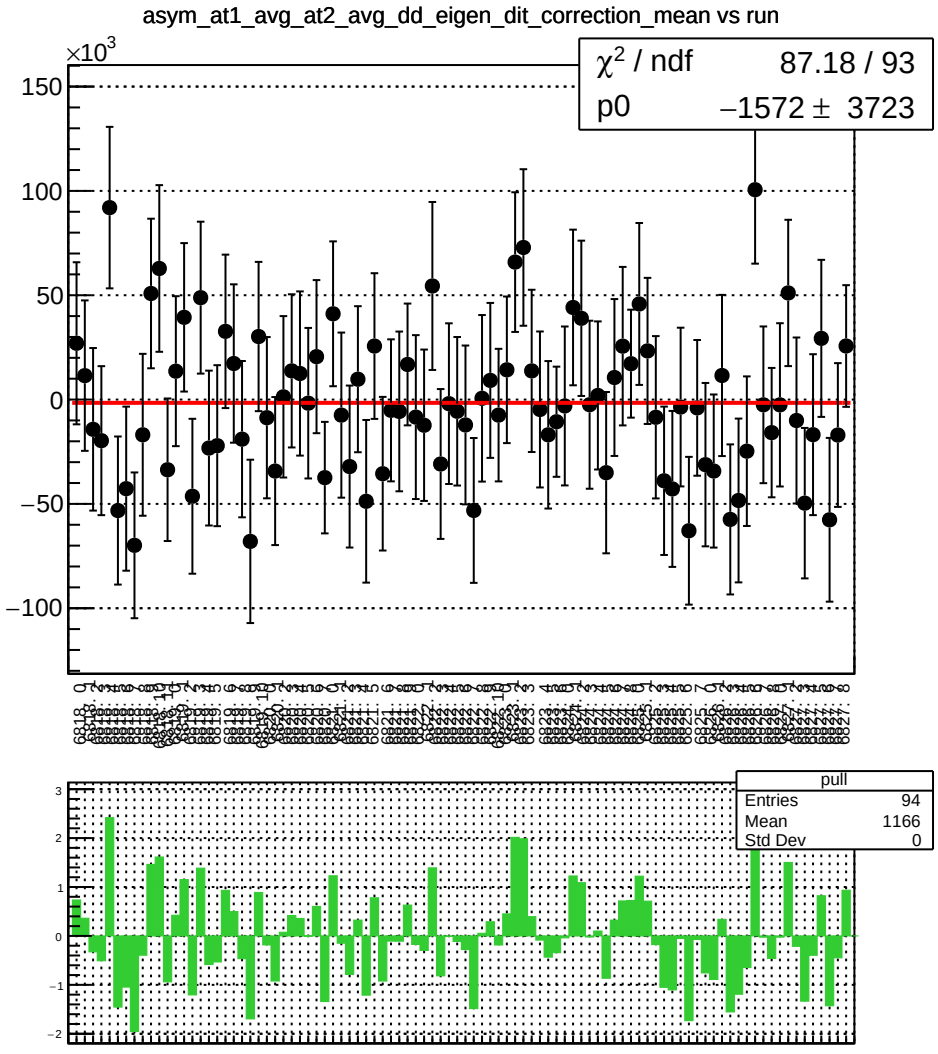

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

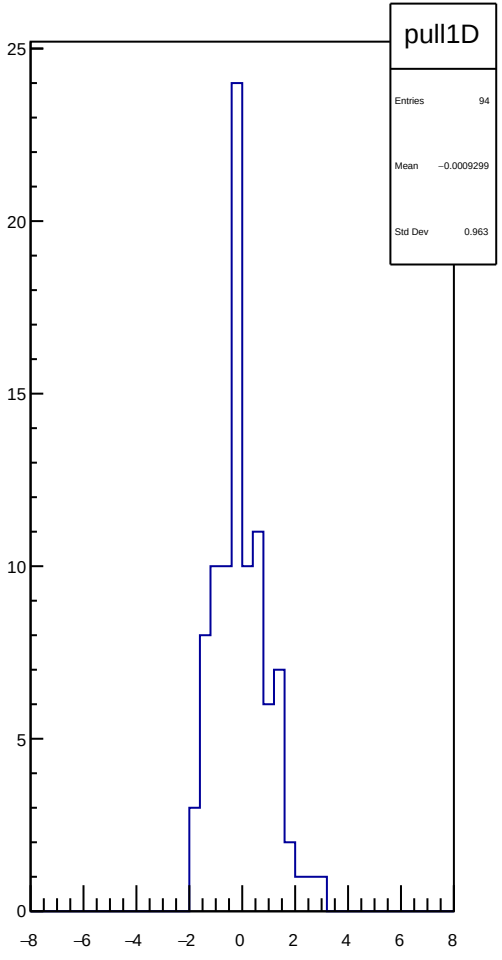

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

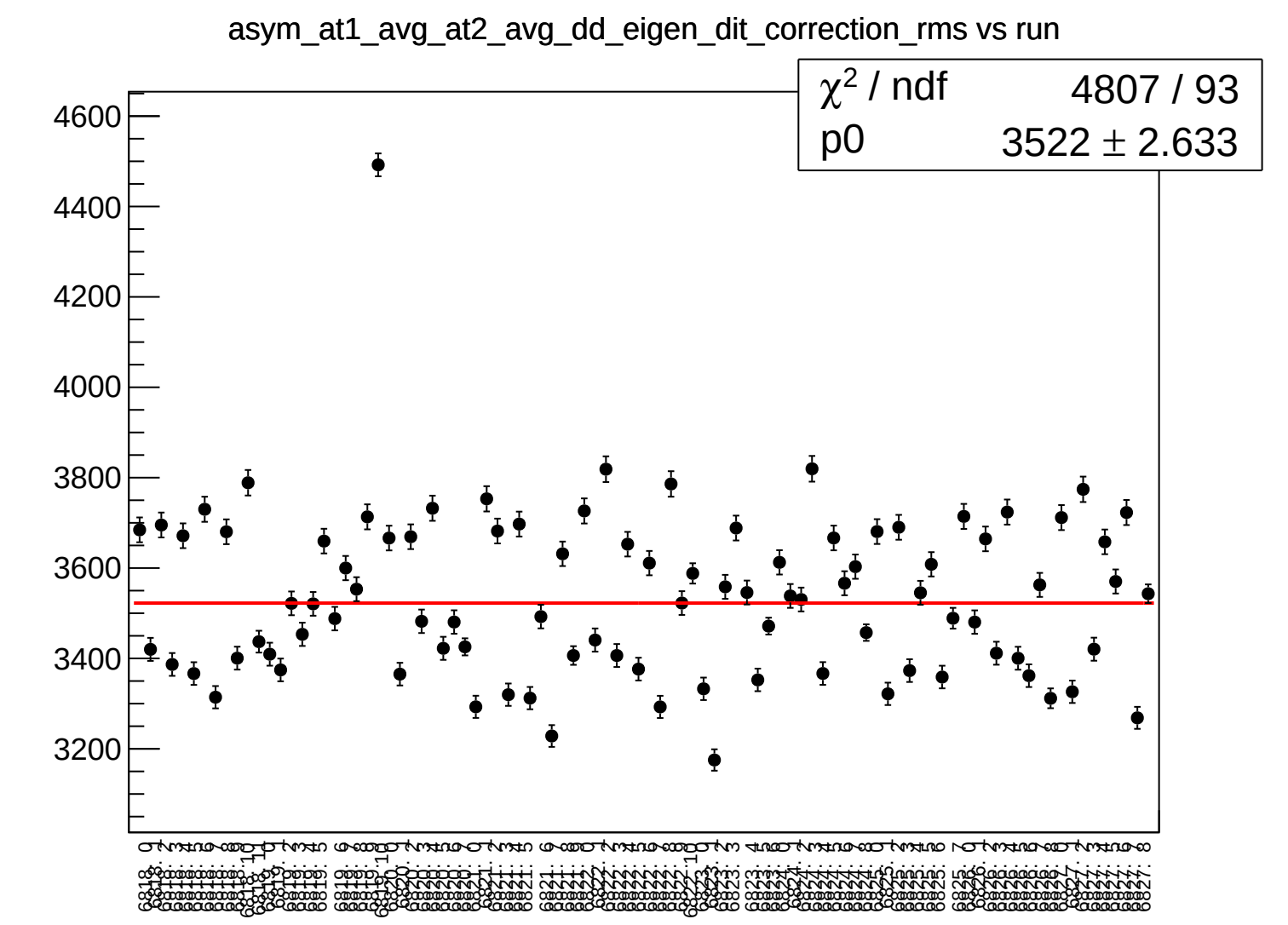

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

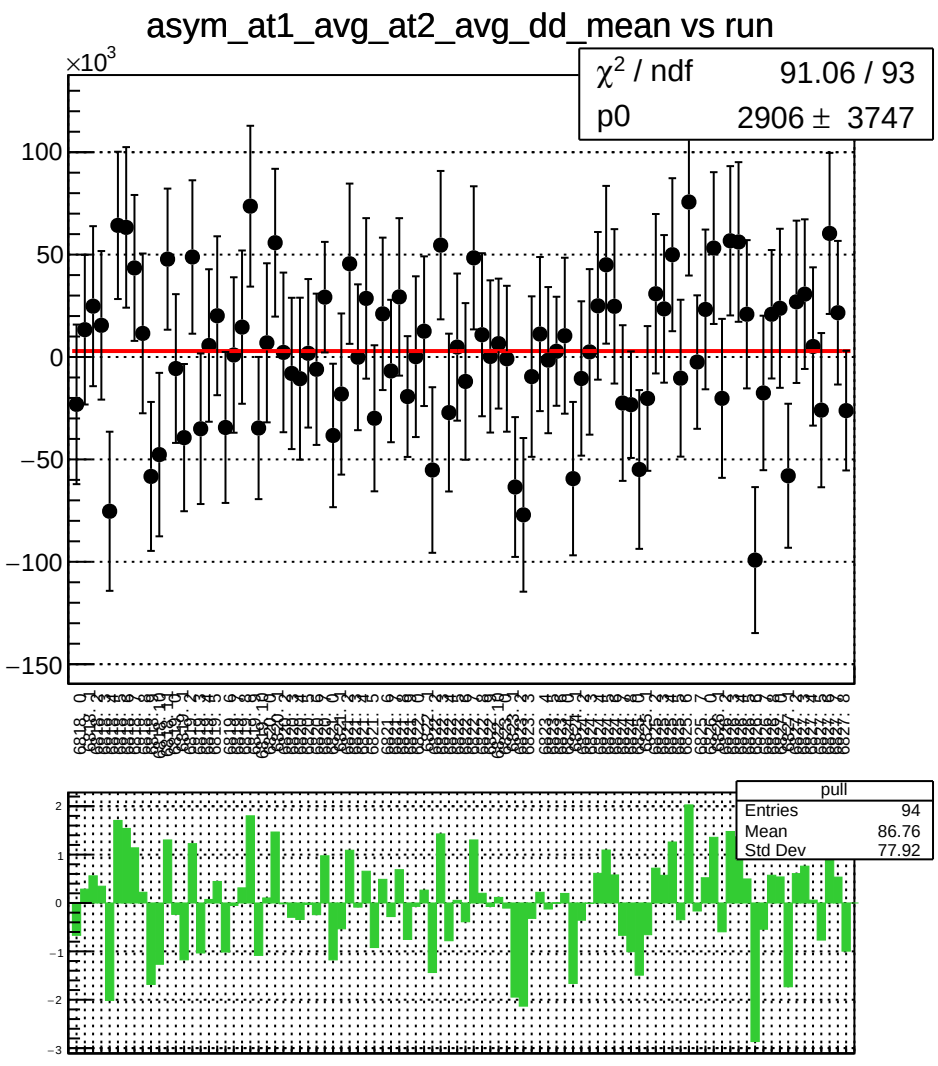

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

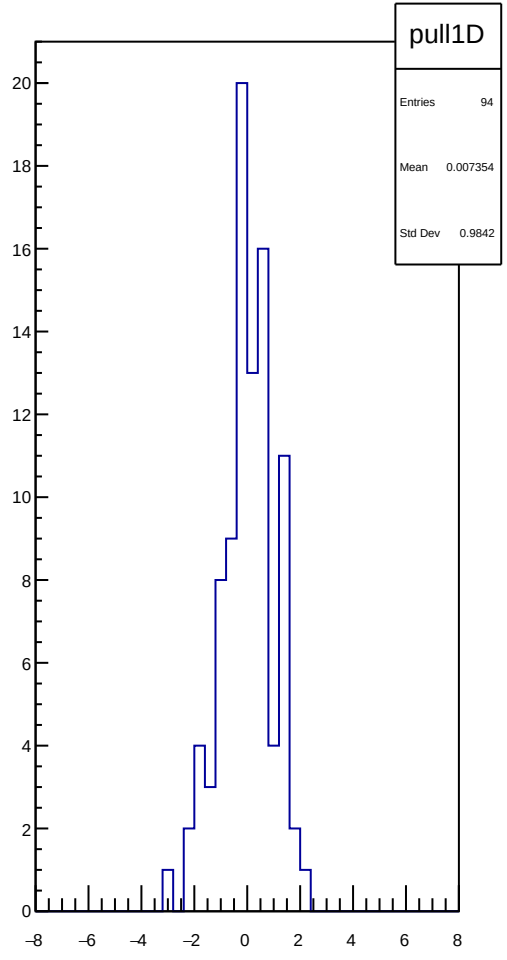

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

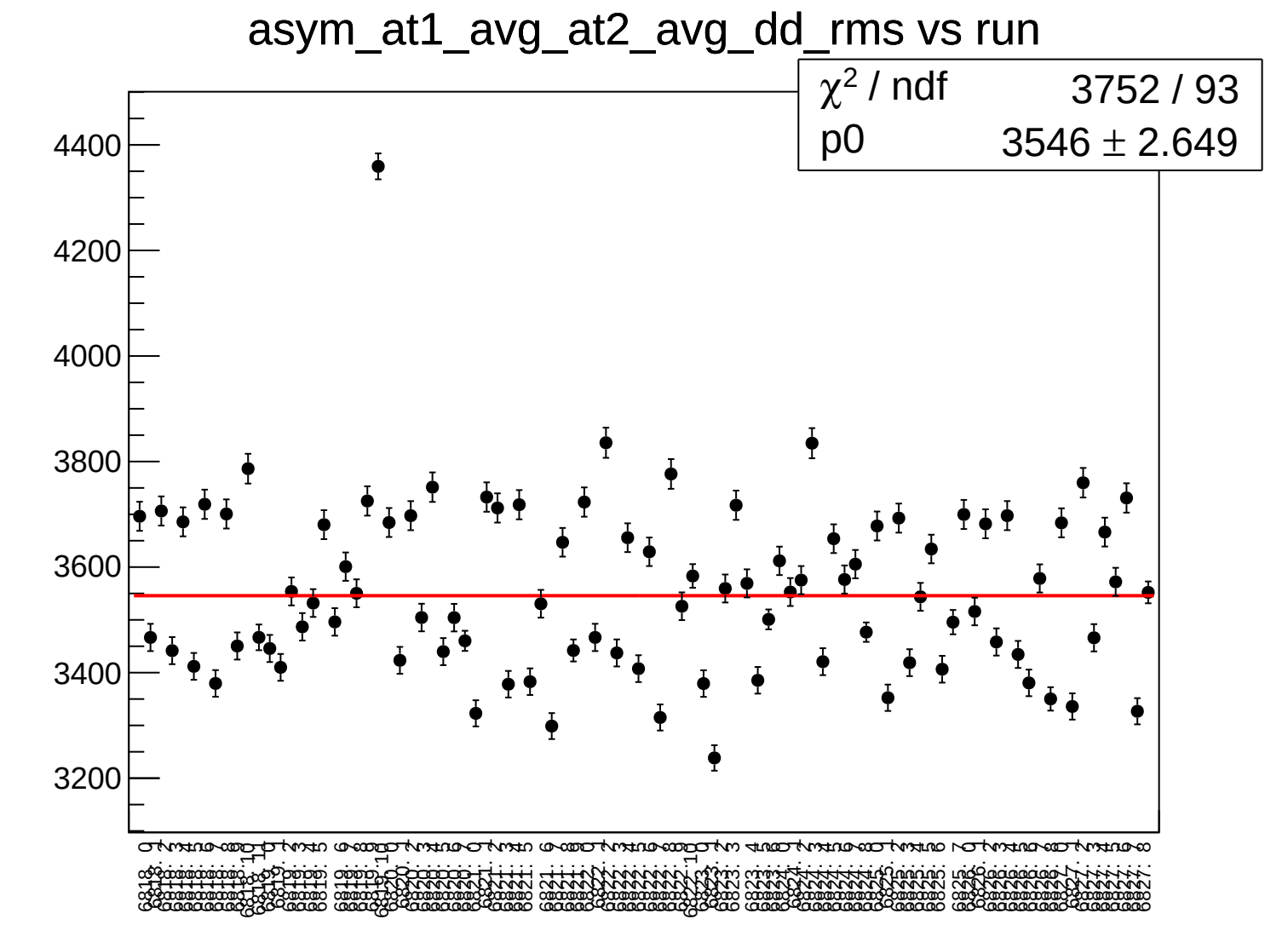

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

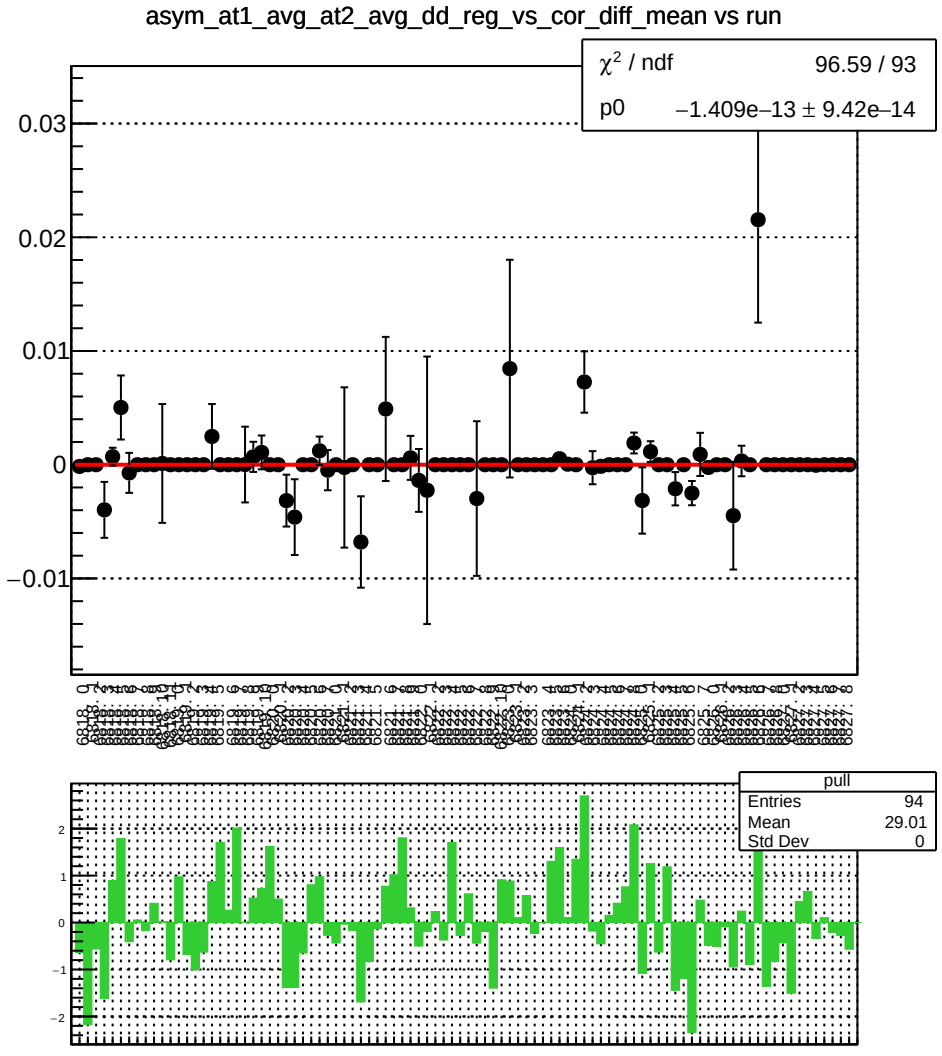

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

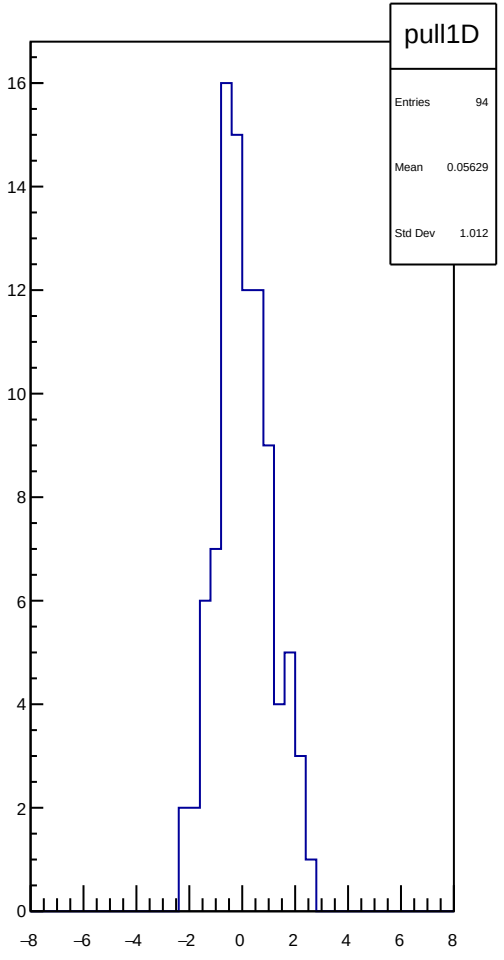

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

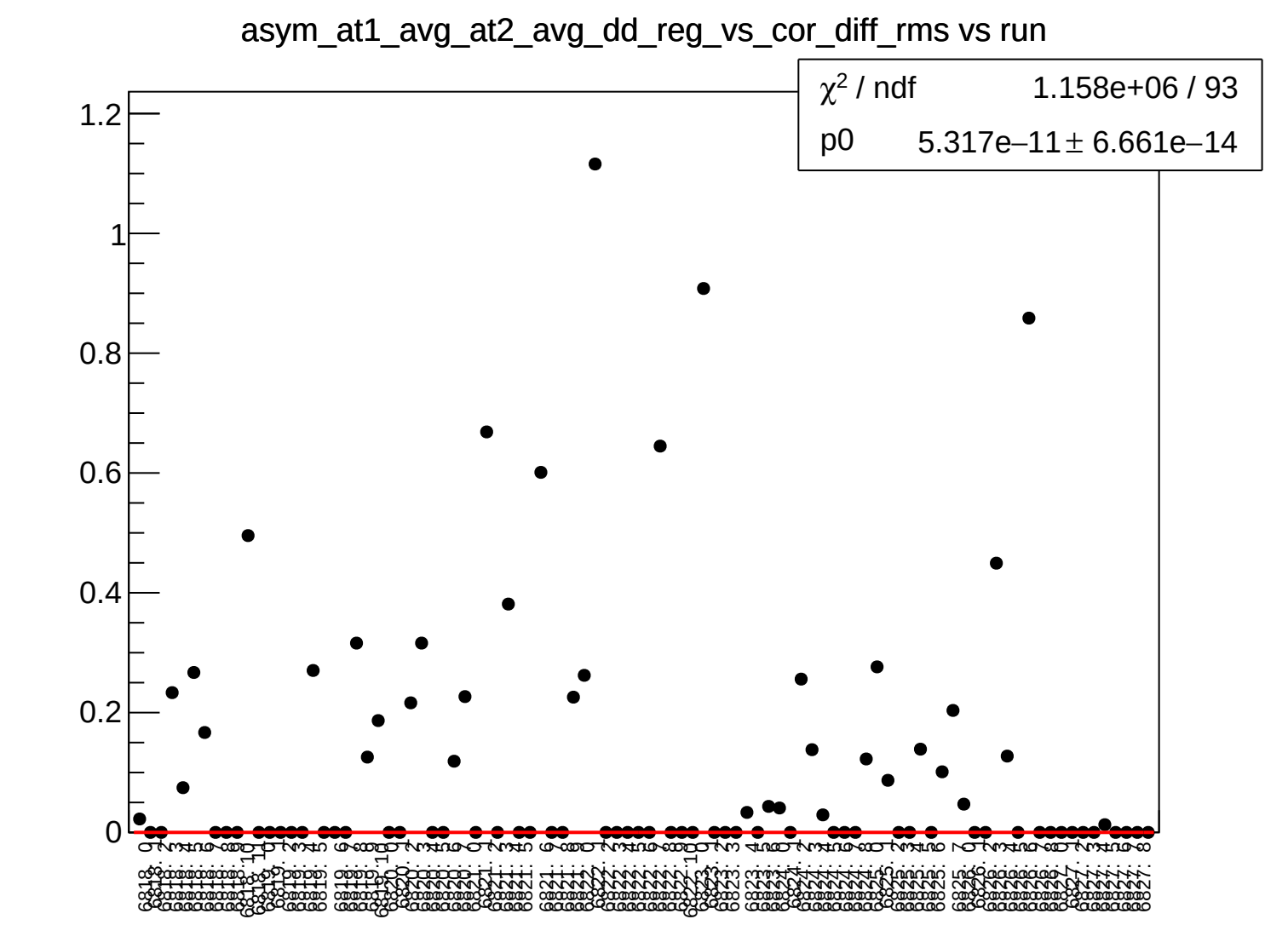

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 91.06 / 93
p0 2906 ± 3747
100
50
0
−50
−100
−150
pull
Entries 94
Mean 86.76
Std Dev 77.92
2
1
0
−1
−2
−3

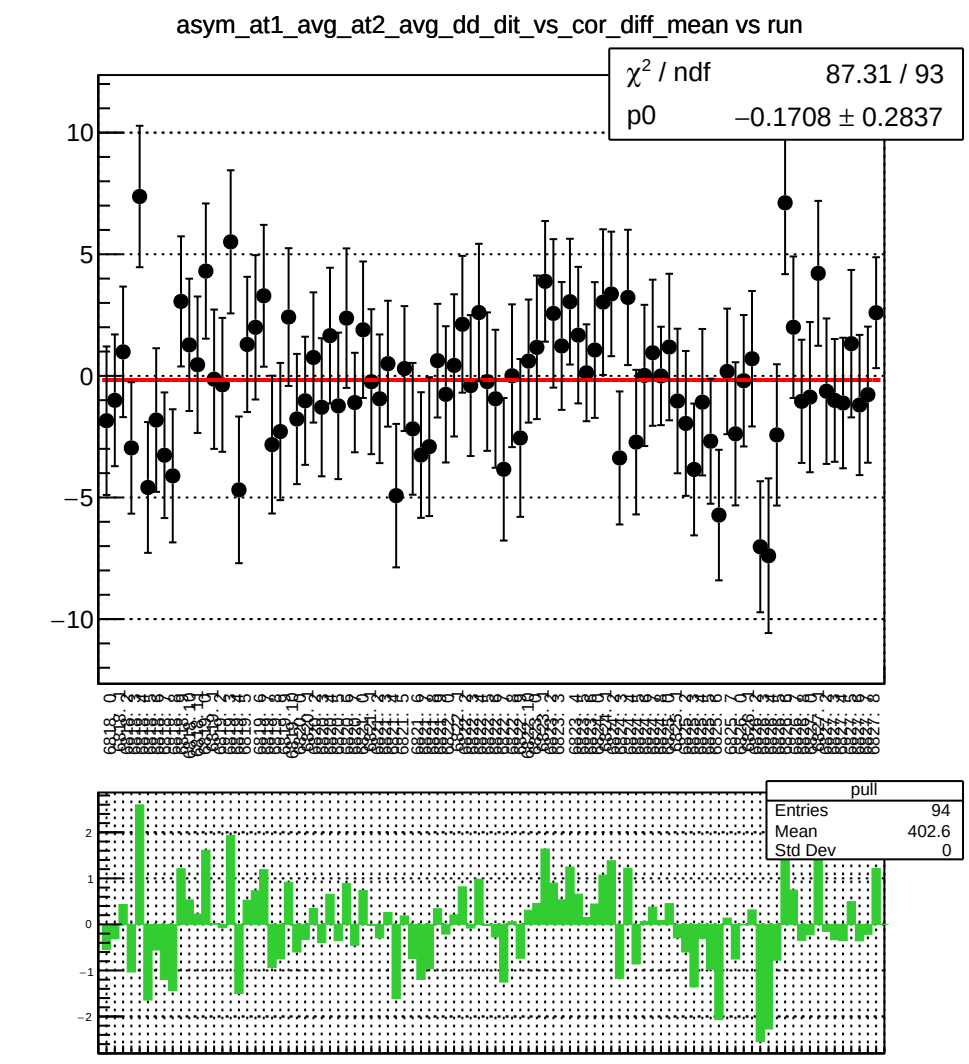

pull1D
Entries 94
Mean 0.007354
Std Dev 0.9842
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

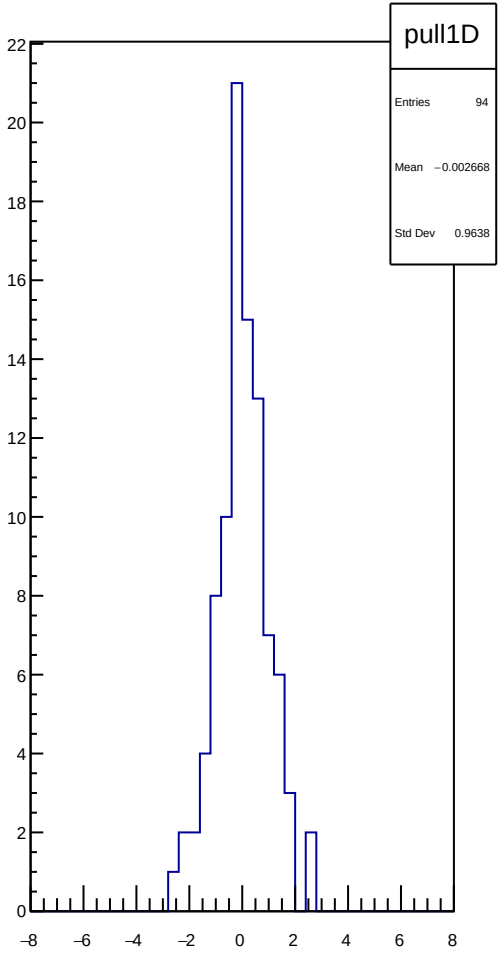

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 3752 / 93
p0 3546 ± 2.649
4400
4200
4000
3800
3600
3400
3200

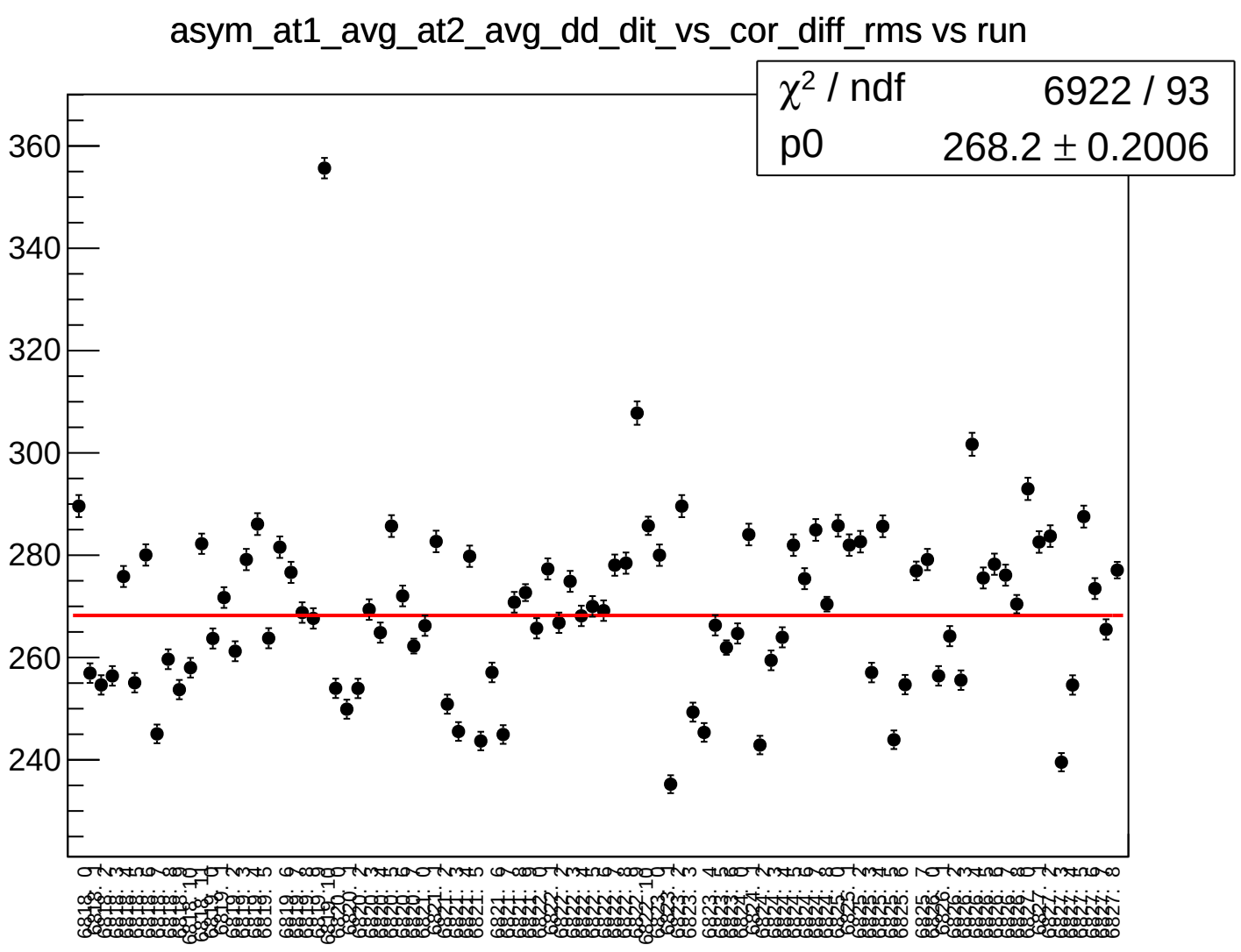

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.59 / 93
p0 −1.409e−13 ± 9.42e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 94
Mean 29.01
Std Dev 0
2
1
0
−1
−2

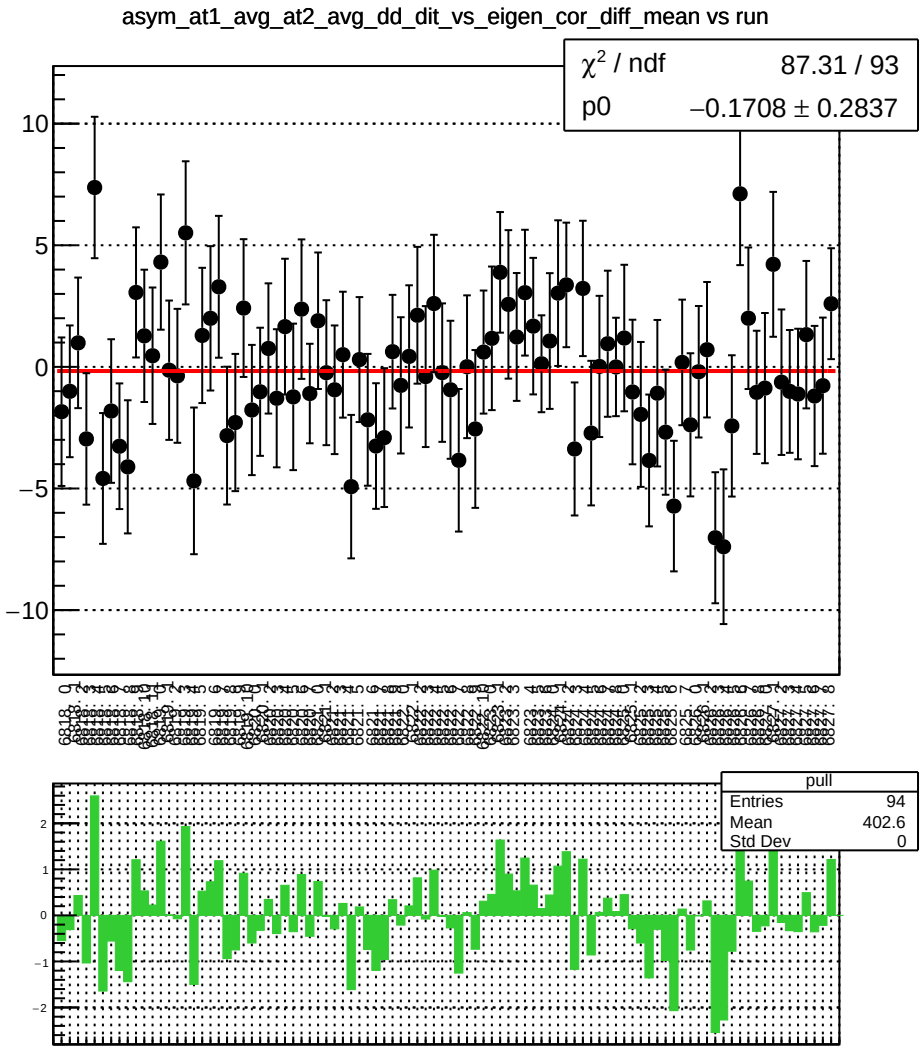

pull1D
Entries 94
Mean 0.05629
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

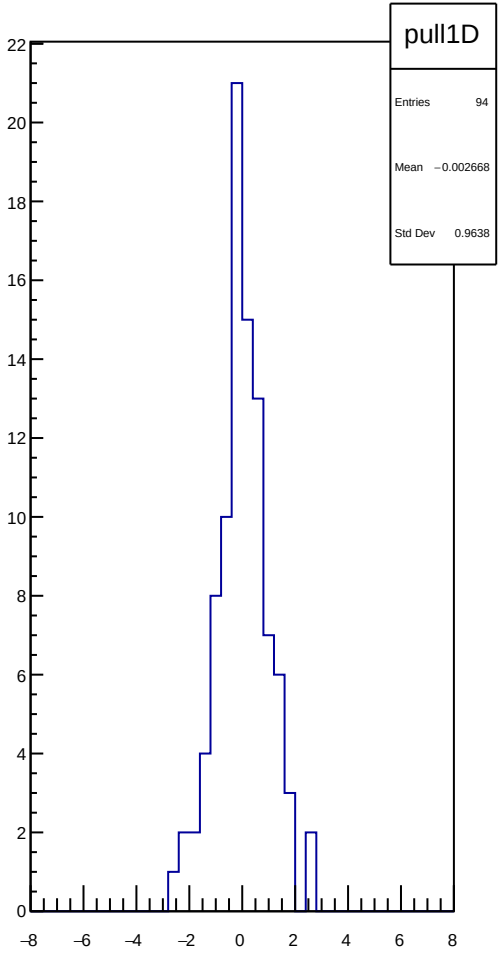

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 93
p0 5.317e−11 ± 6.661e−14
1.2
1
0.8
0.6
0.4
0.2
0

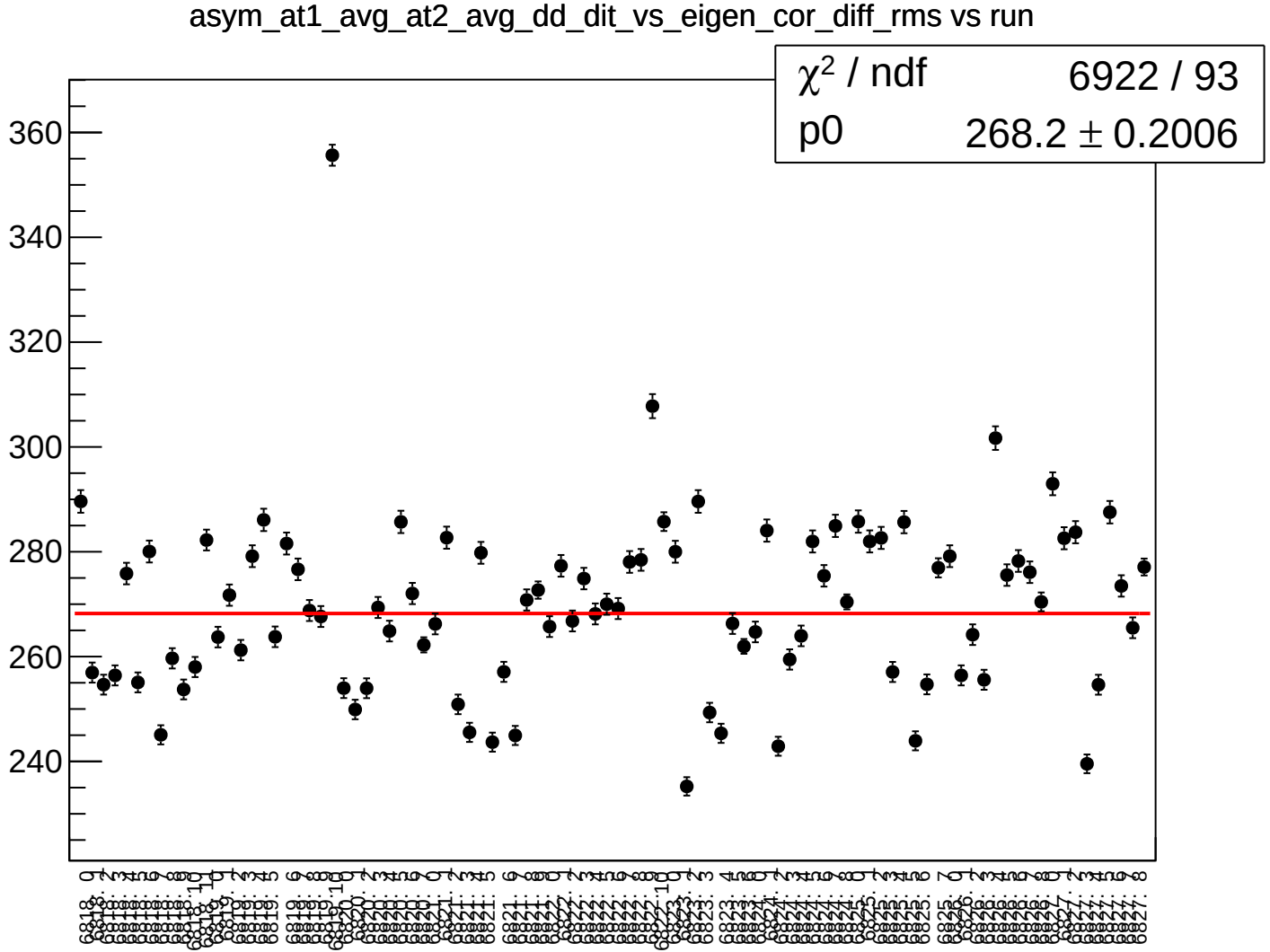

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

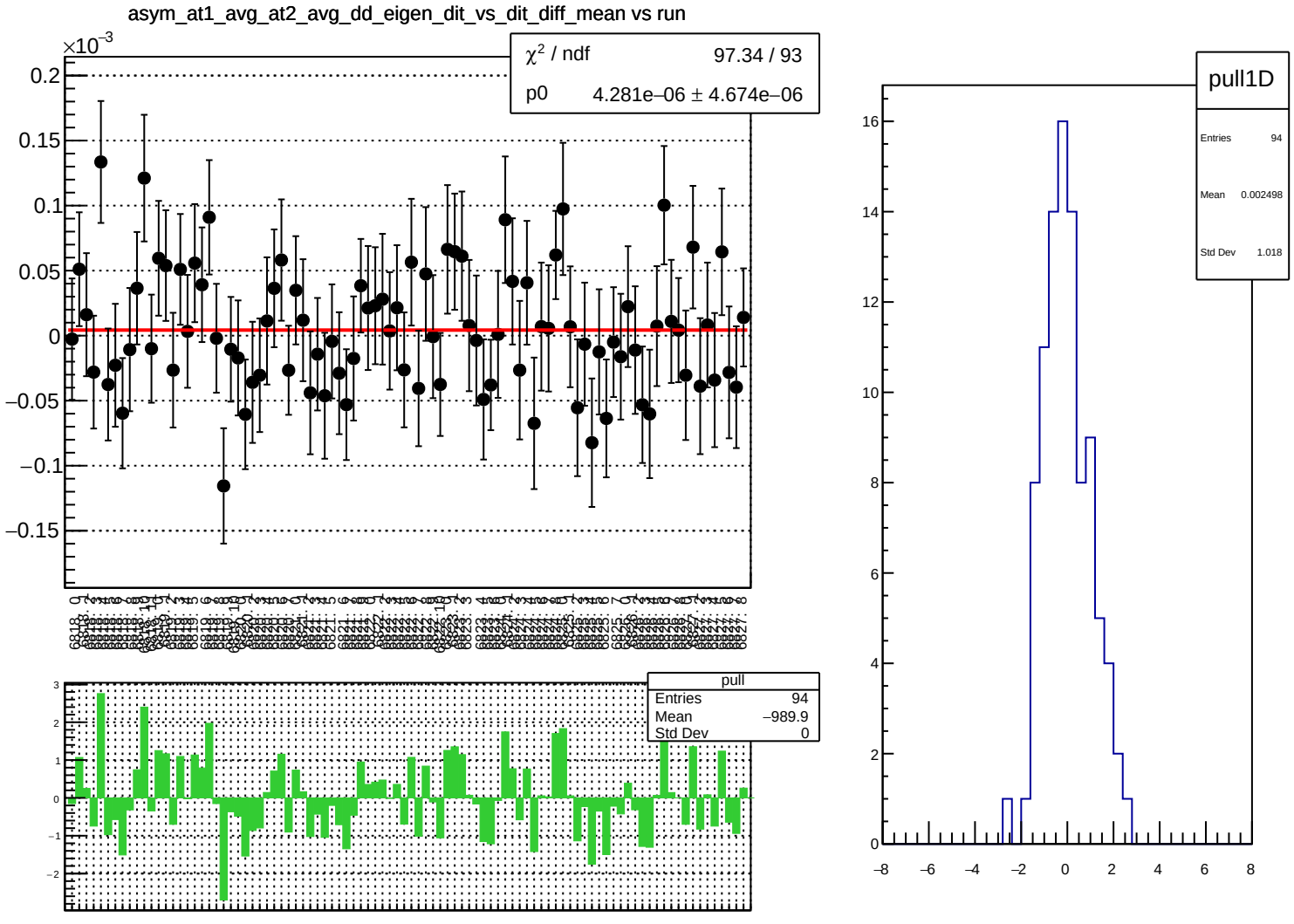

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

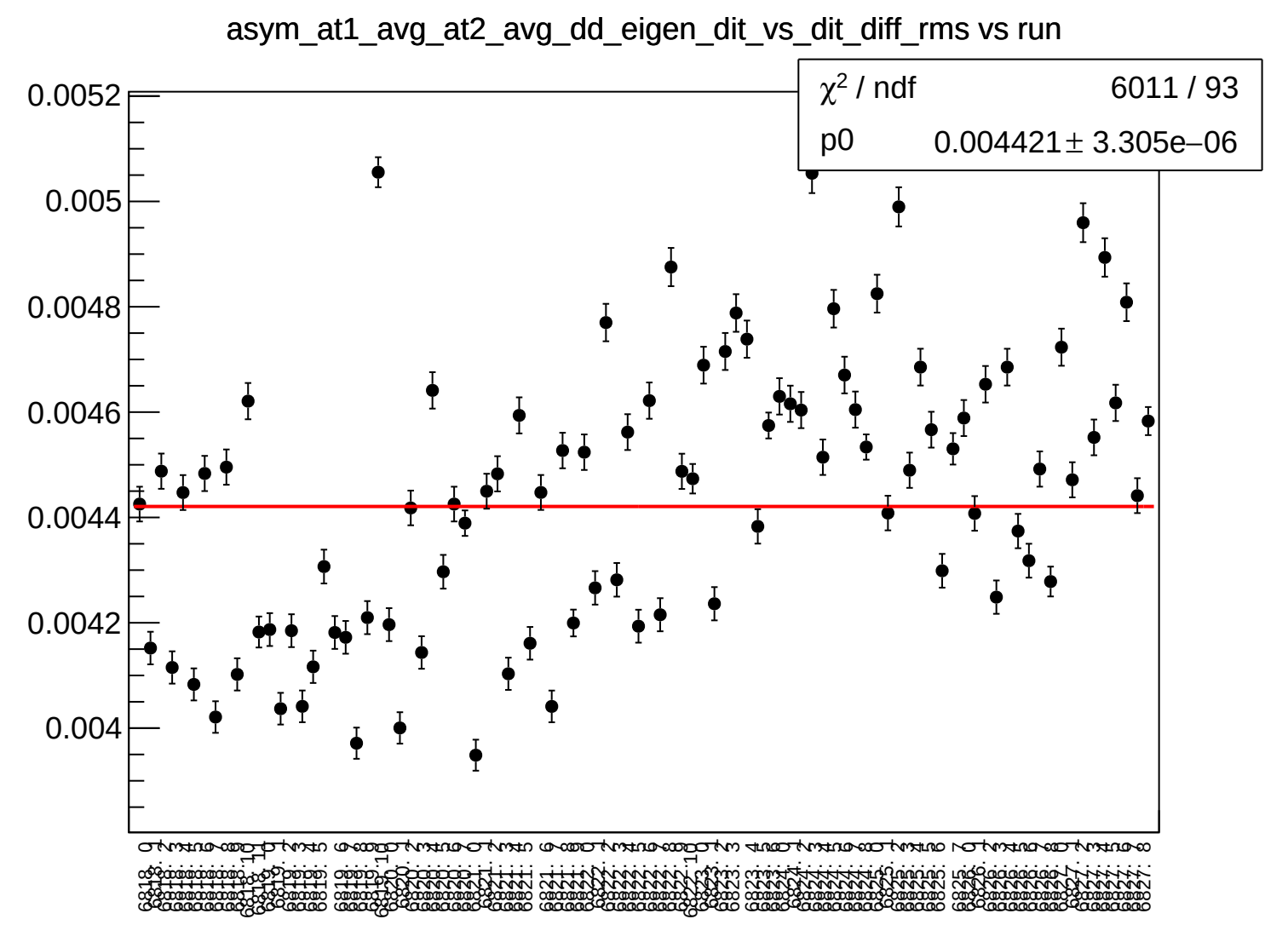

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

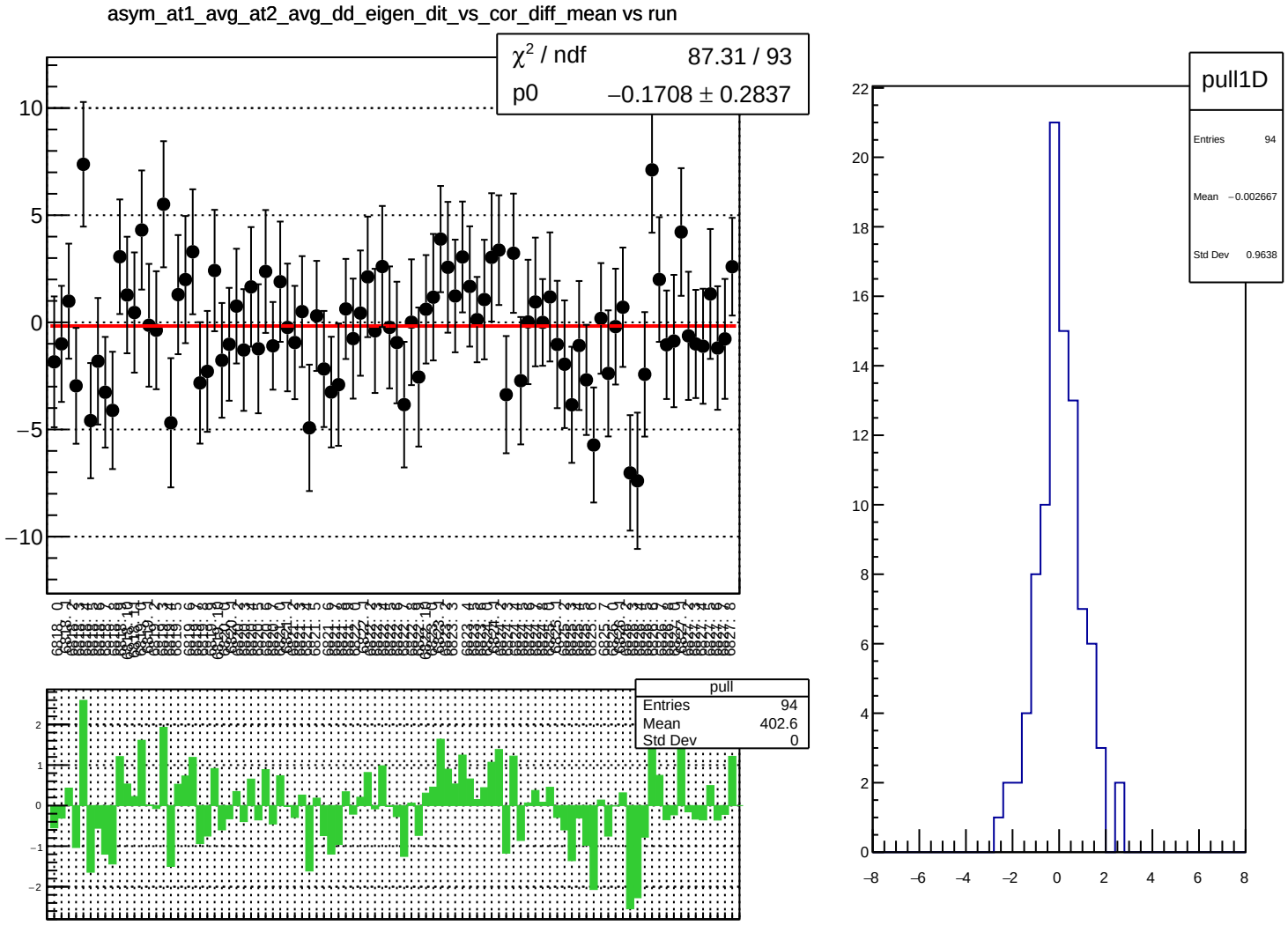

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

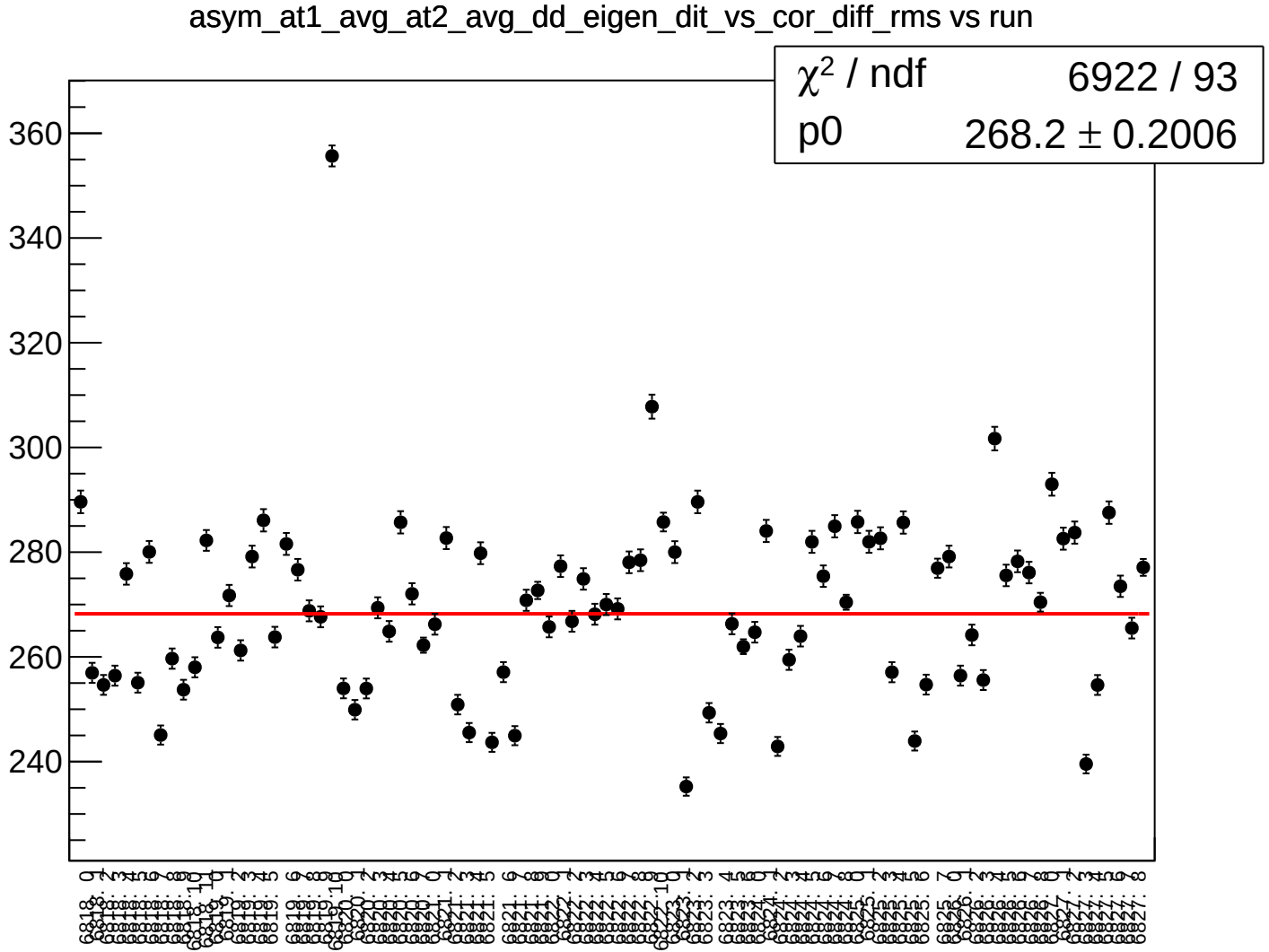

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

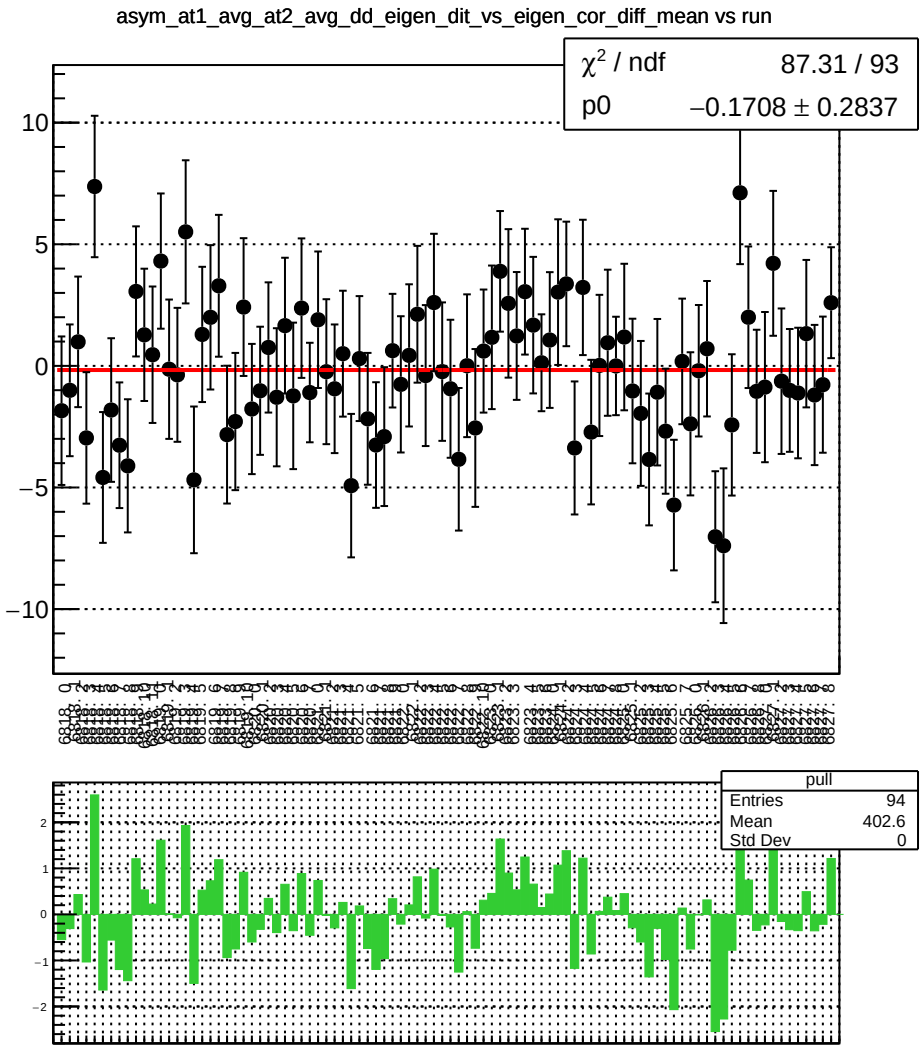

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

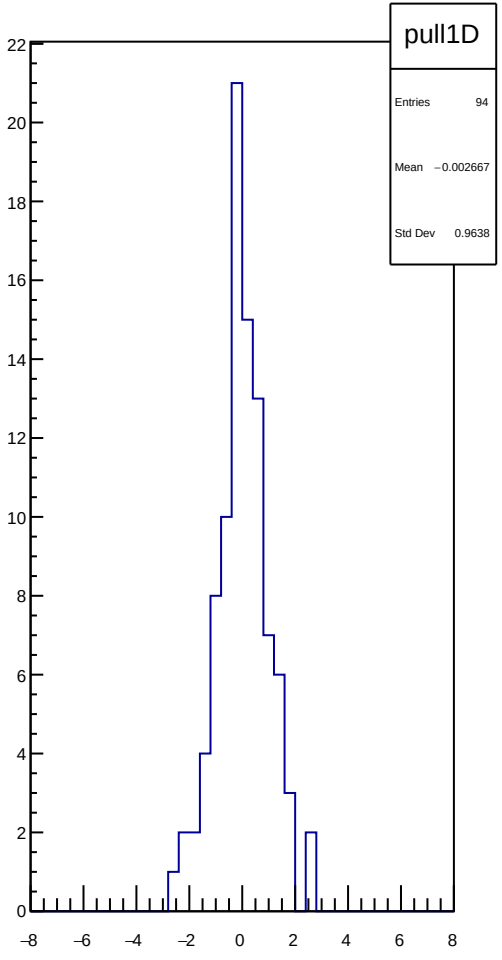

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.34 / 93
p0 4.281e−06 ± 4.674e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −989.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002498
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

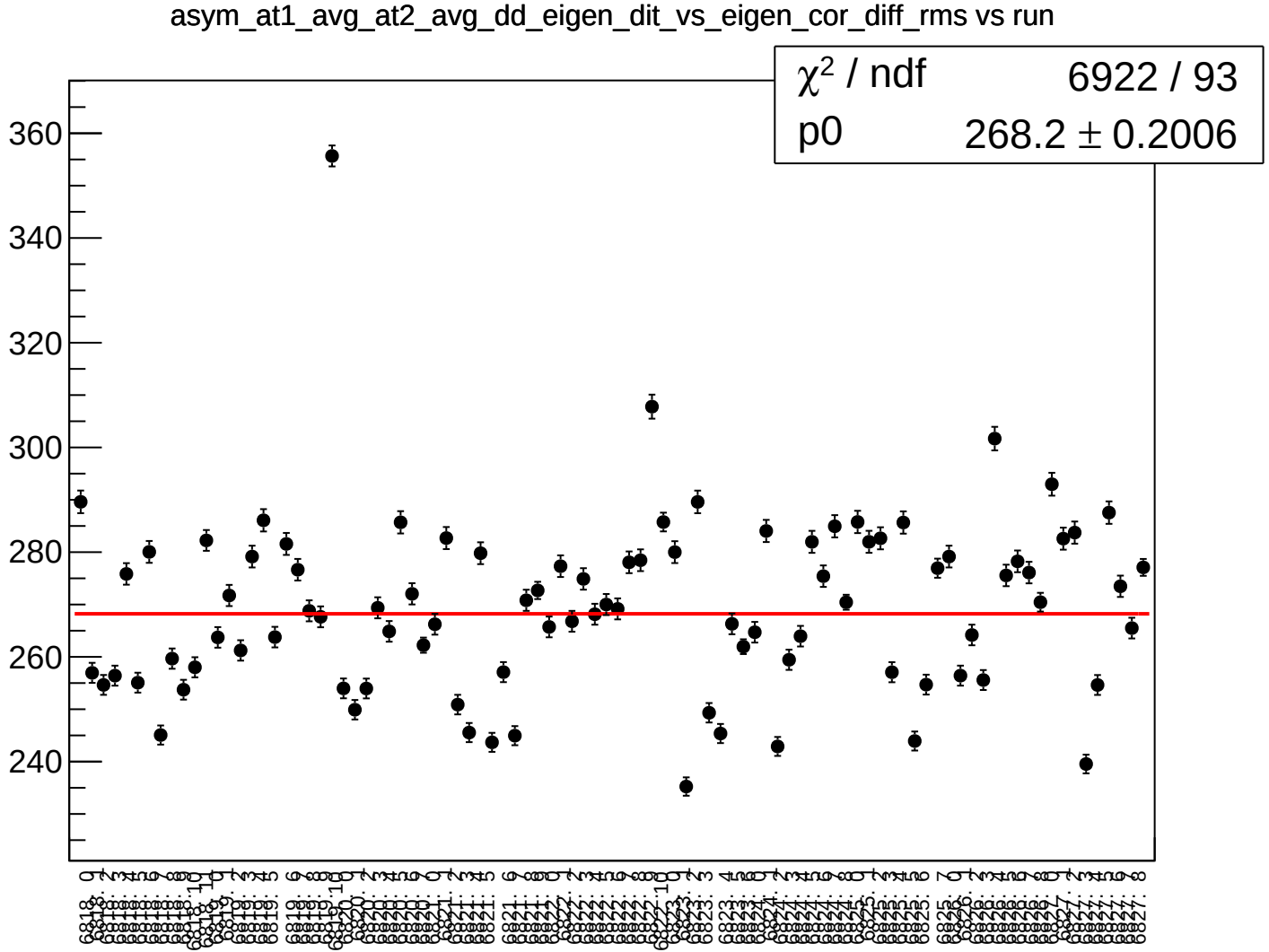

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6011 / 93
p0 0.004421 ± 3.305e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

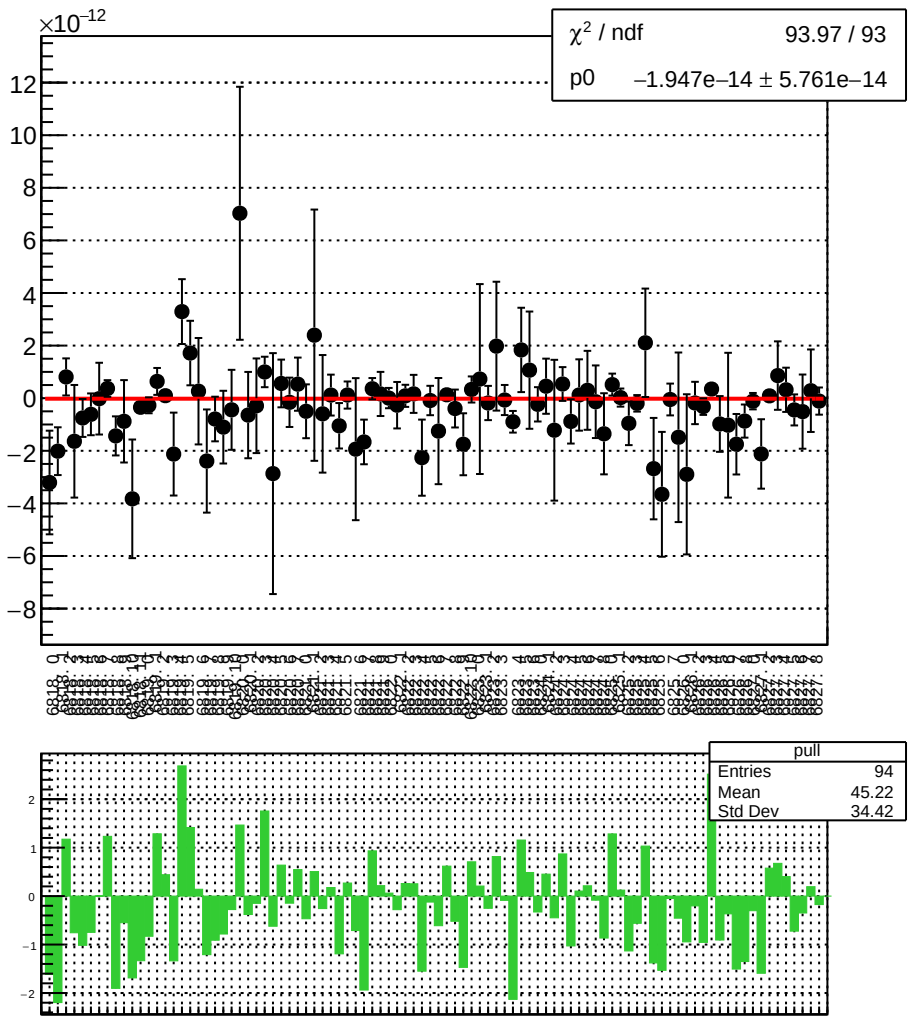

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0
pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

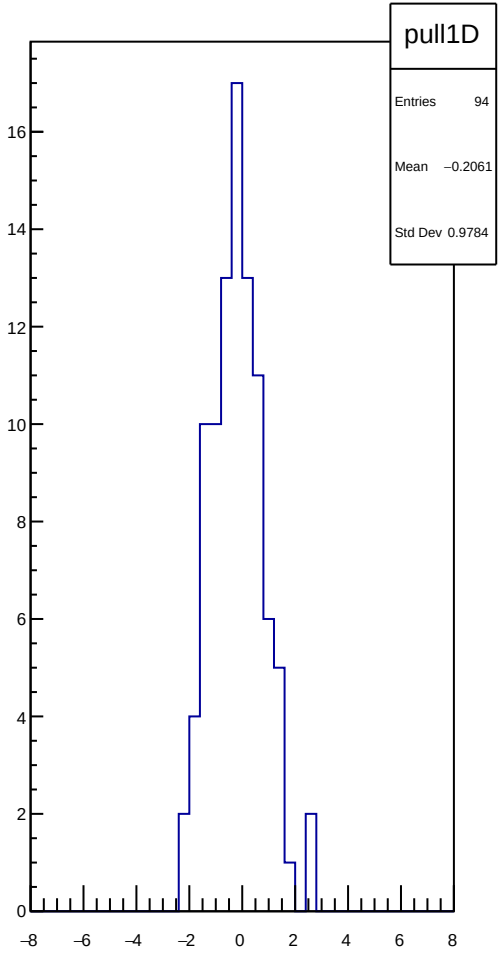

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

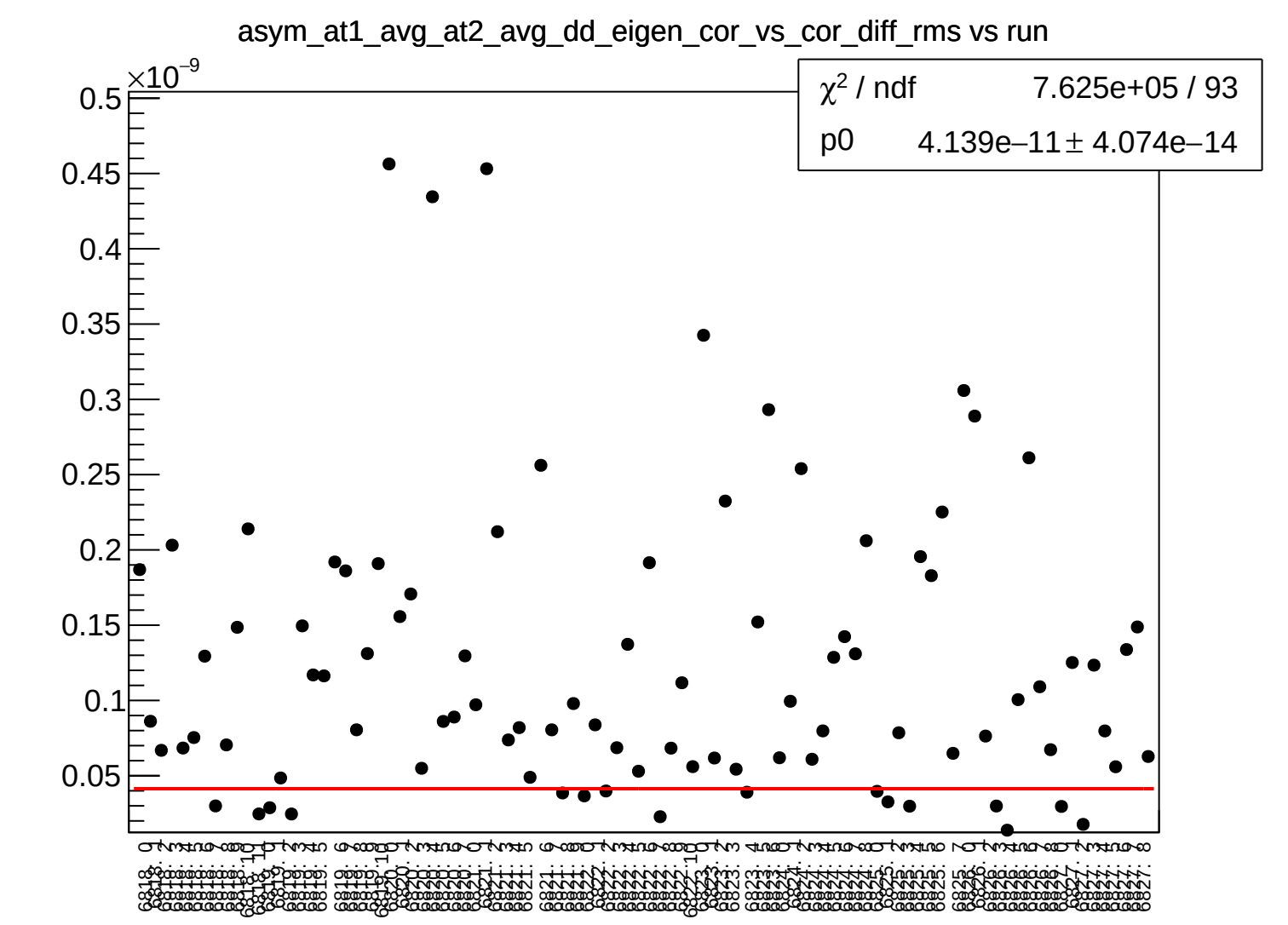

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

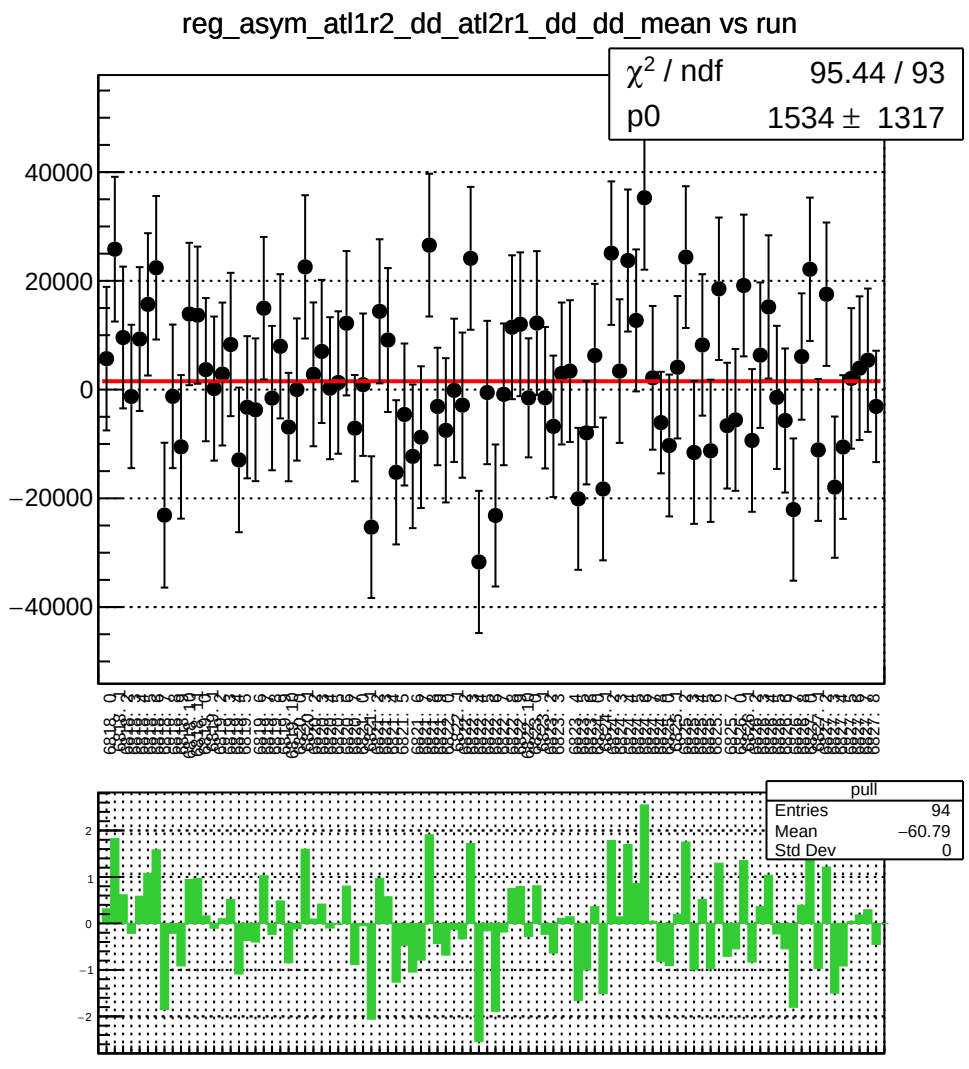

pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

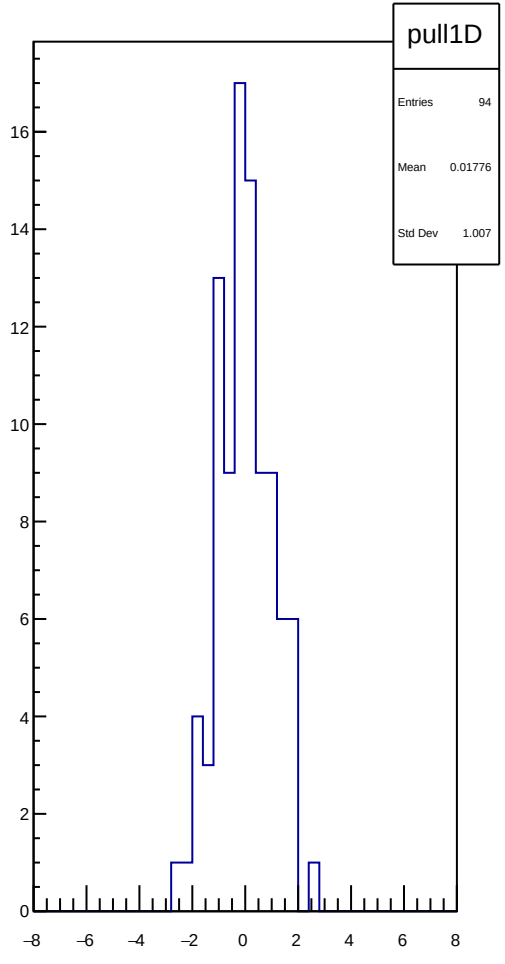

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

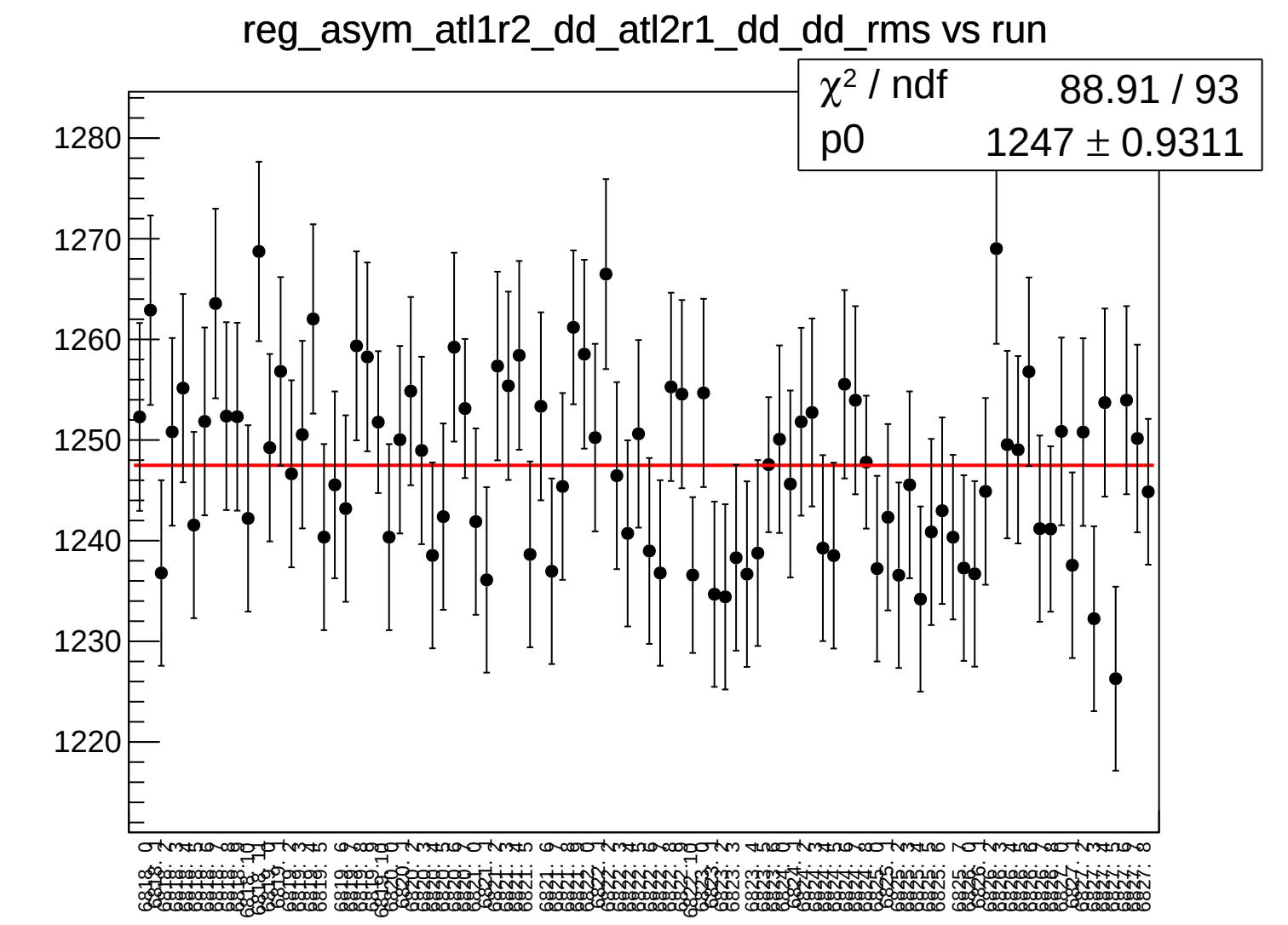

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.97 / 93
p0 −1.947e−14 ± 5.761e−14
pull
Entries 94
Mean 45.22
Std Dev 34.42

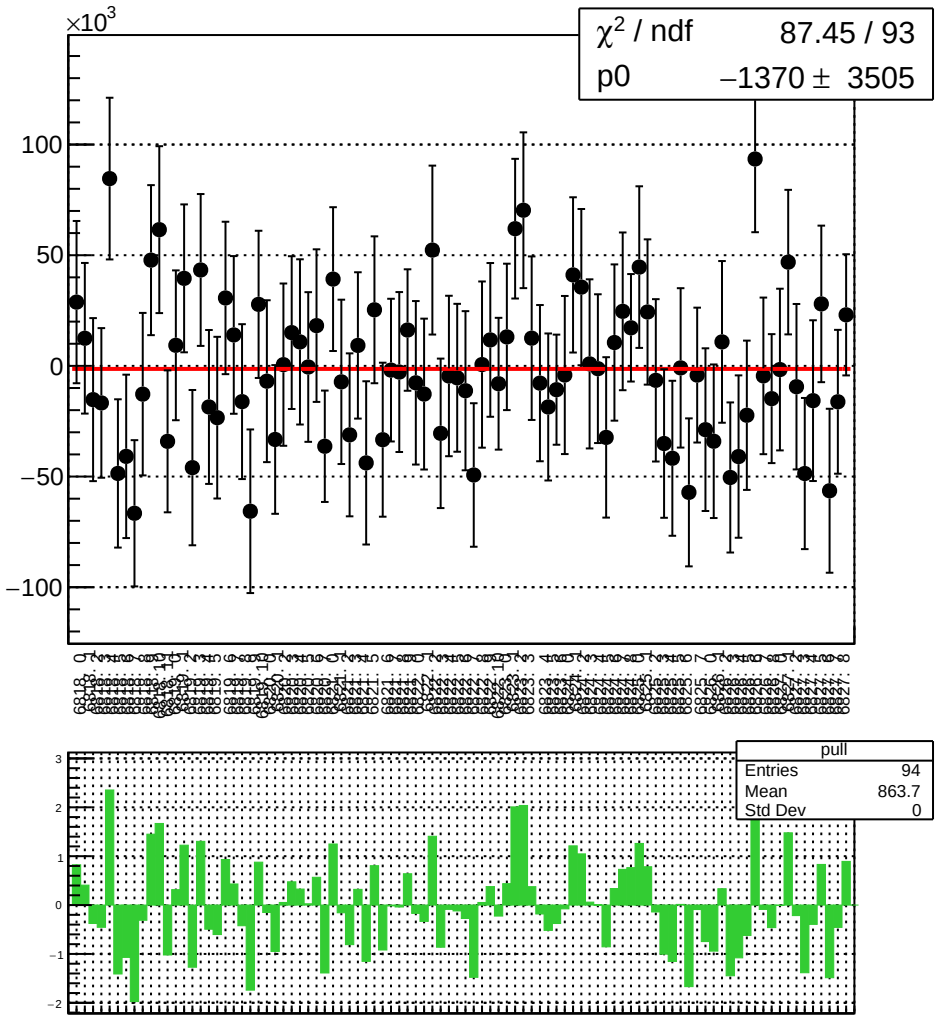

pull1D
Entries 94
Mean −0.2061
Std Dev 0.9784

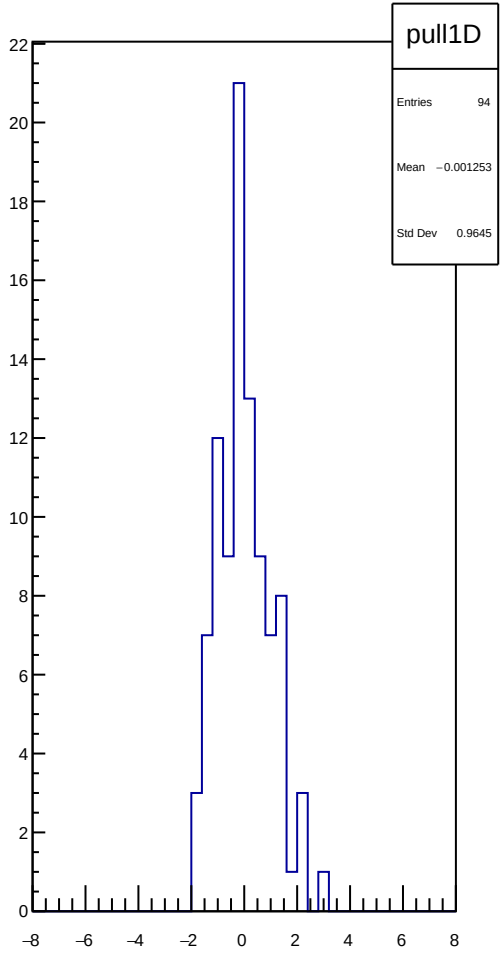

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.625e+05 / 93
p0 4.139e−11 ± 4.074e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

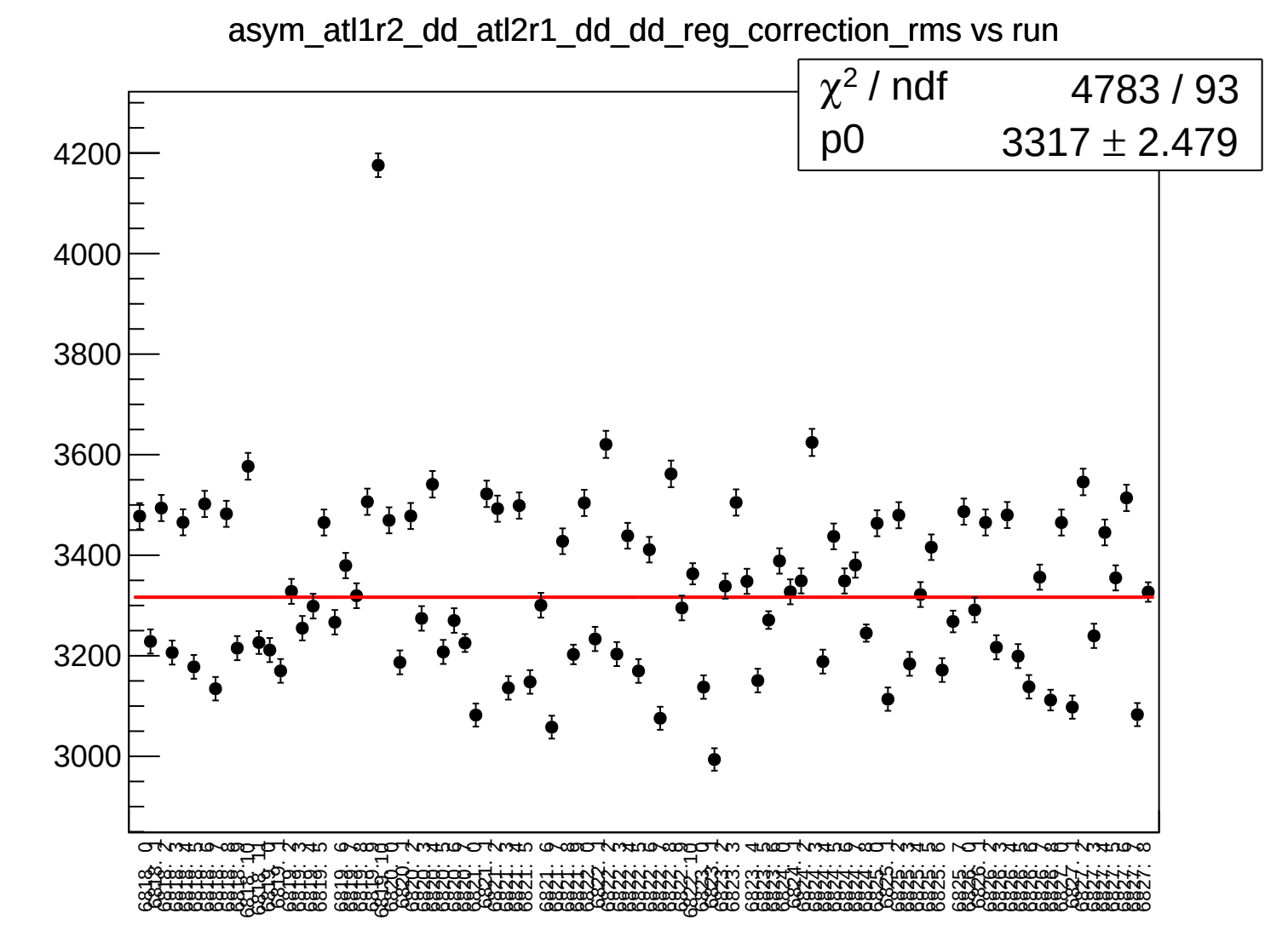

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.79
Std Dev 0
2
1
0
−1
−2

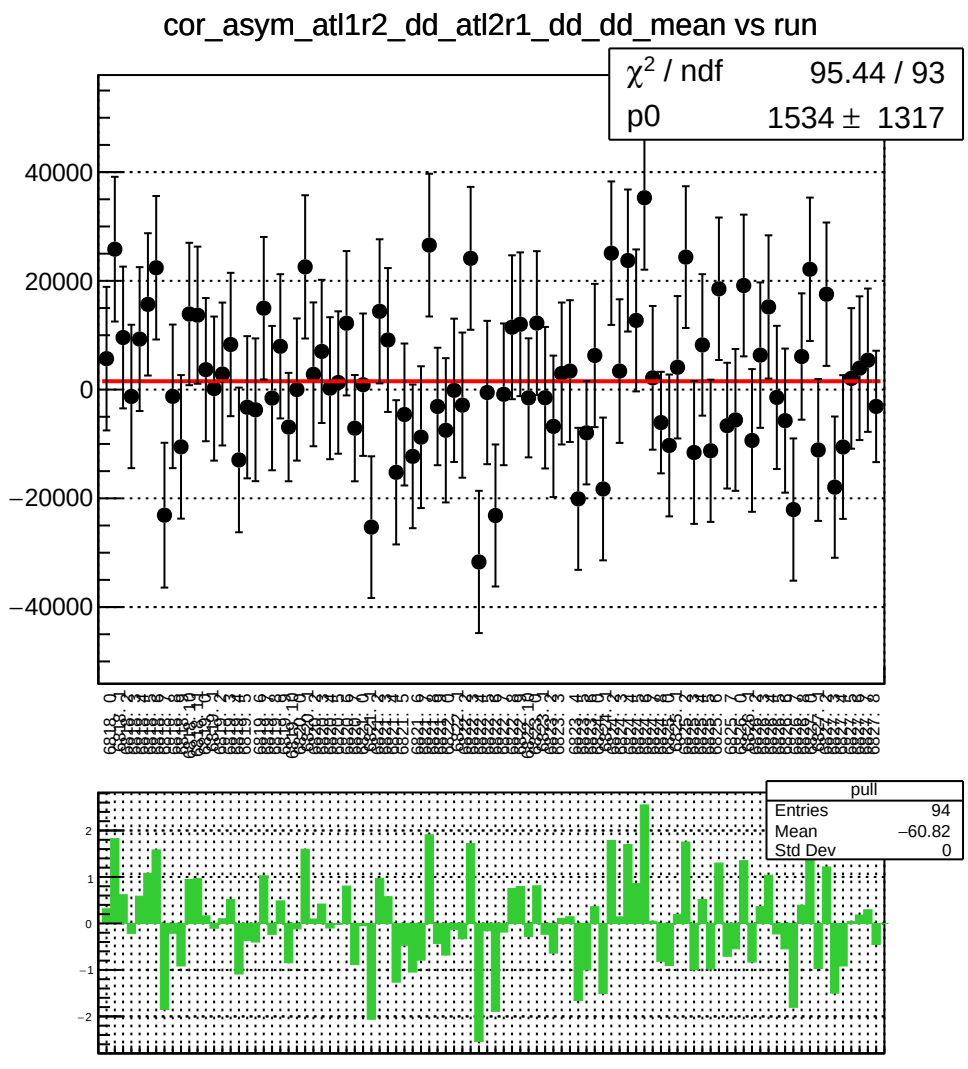

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

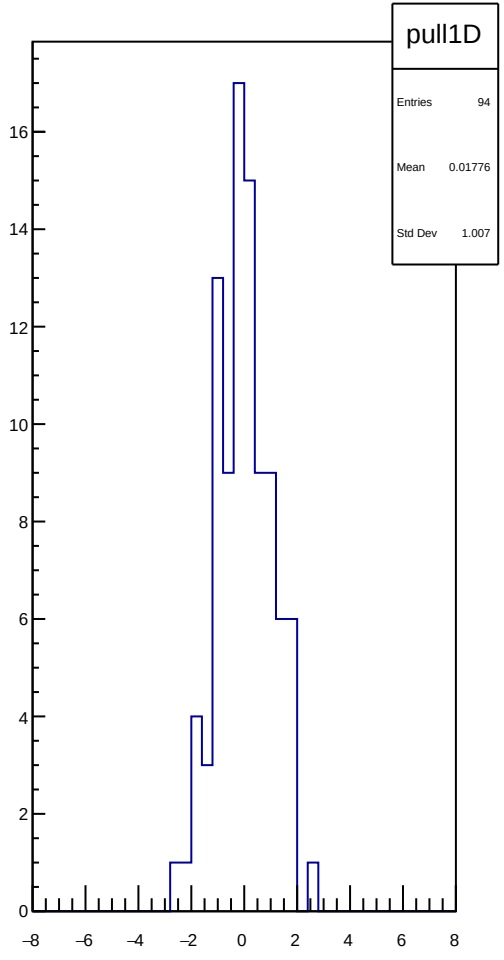

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

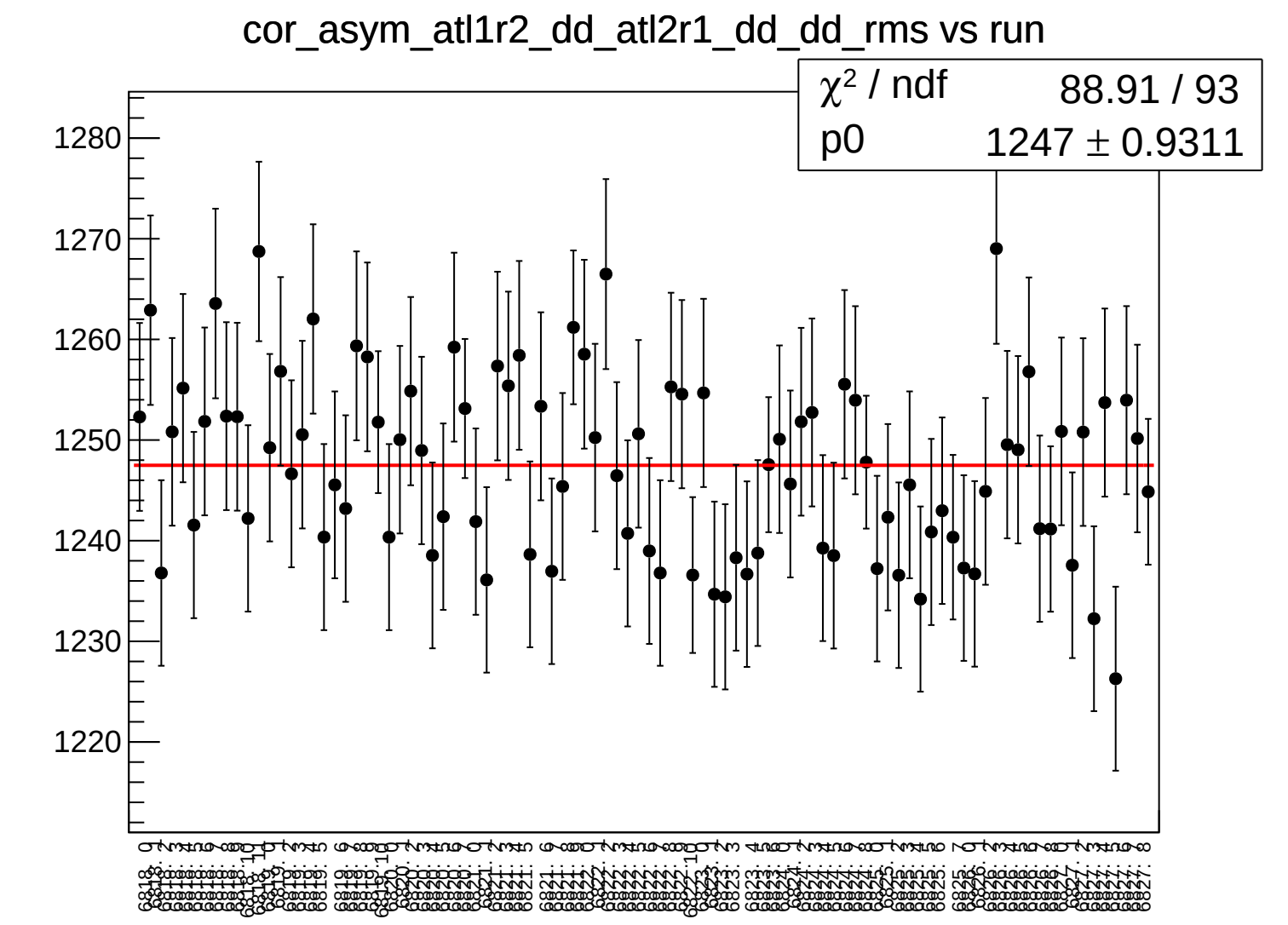

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 863.7
Std Dev 0
3
2
1
0
−1
−2

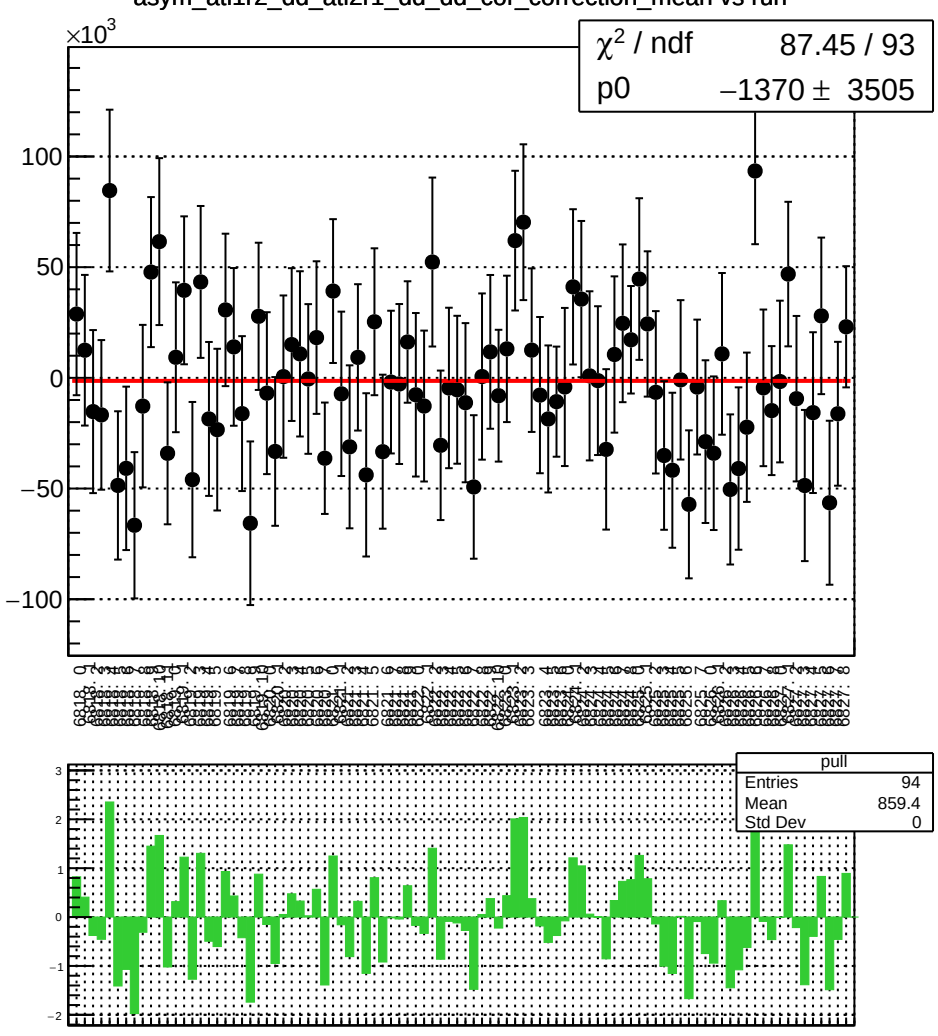

pull1D
Entries 94
Mean −0.001253
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

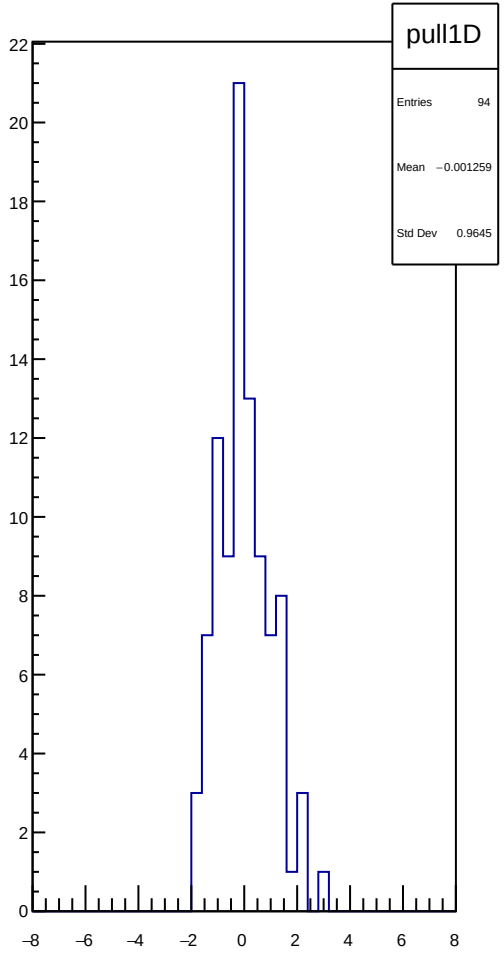

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 4783 / 93
p0 3317 ± 2.479
4200
4000
3800
3600
3400
3200
3000

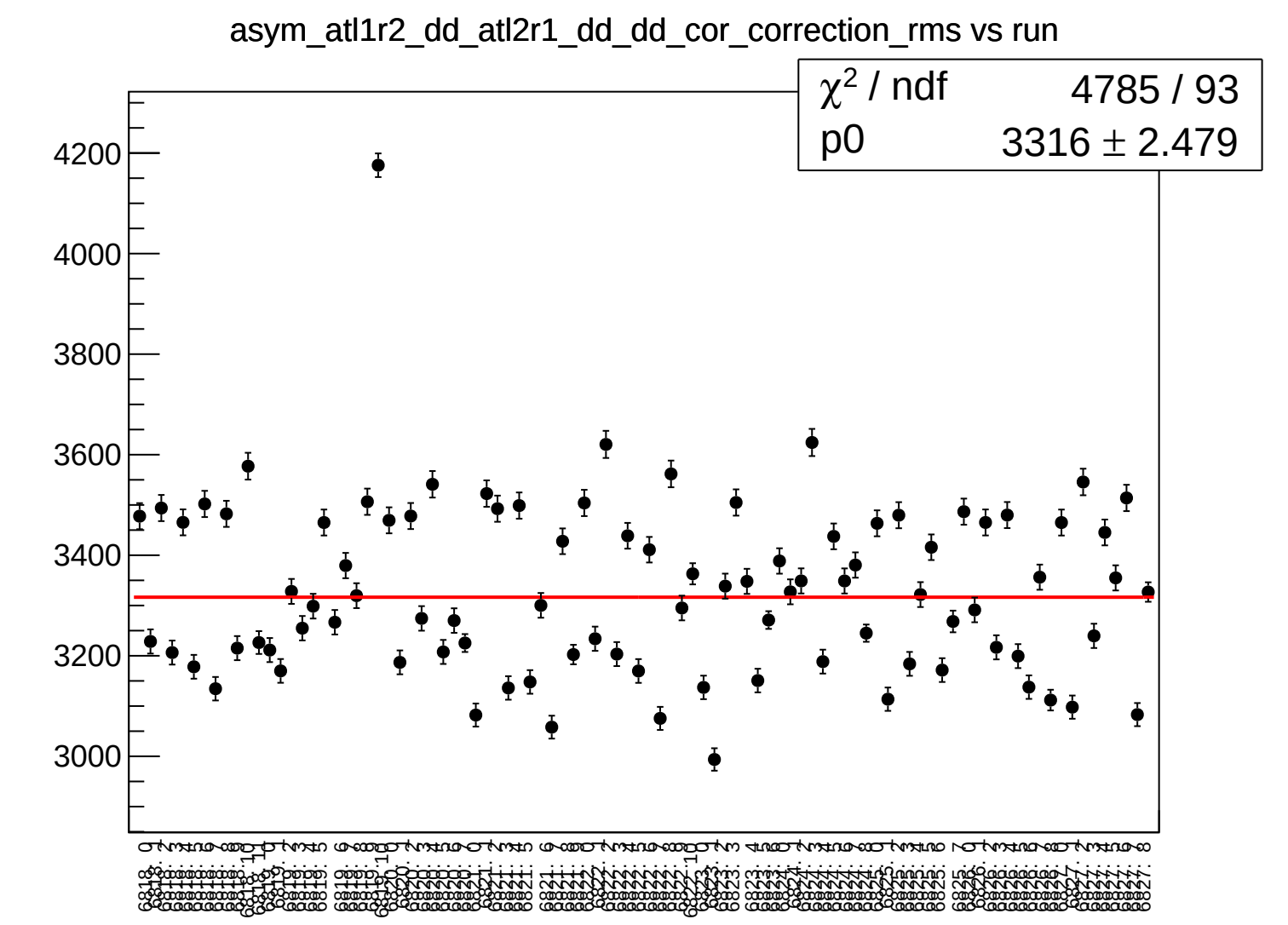

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2

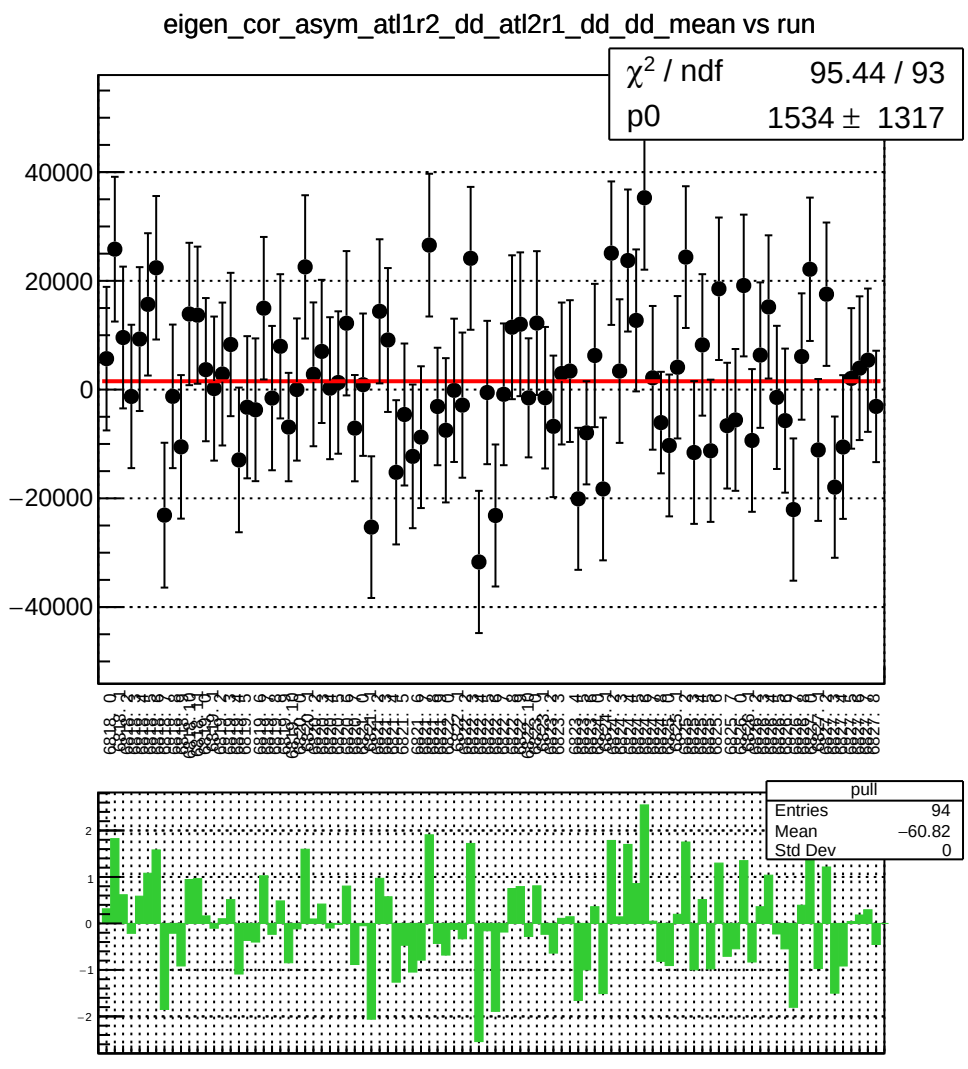

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

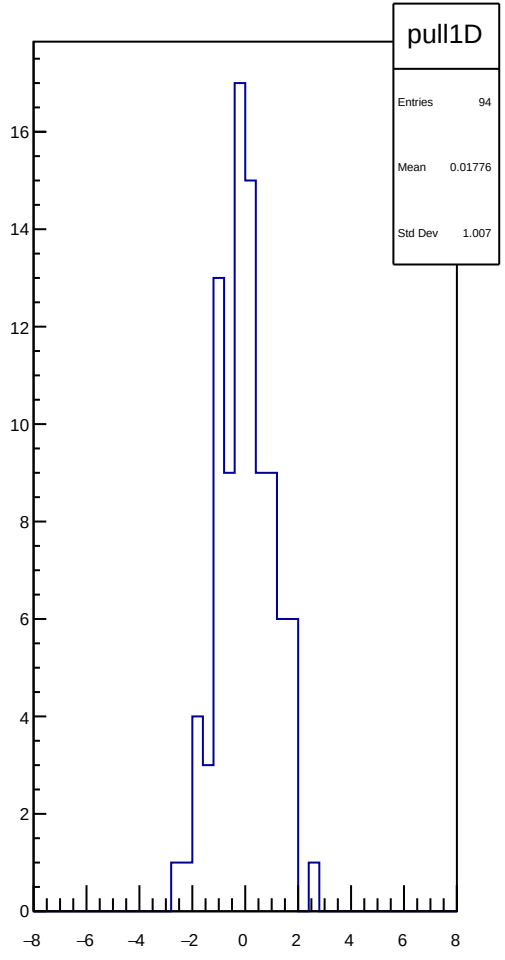

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

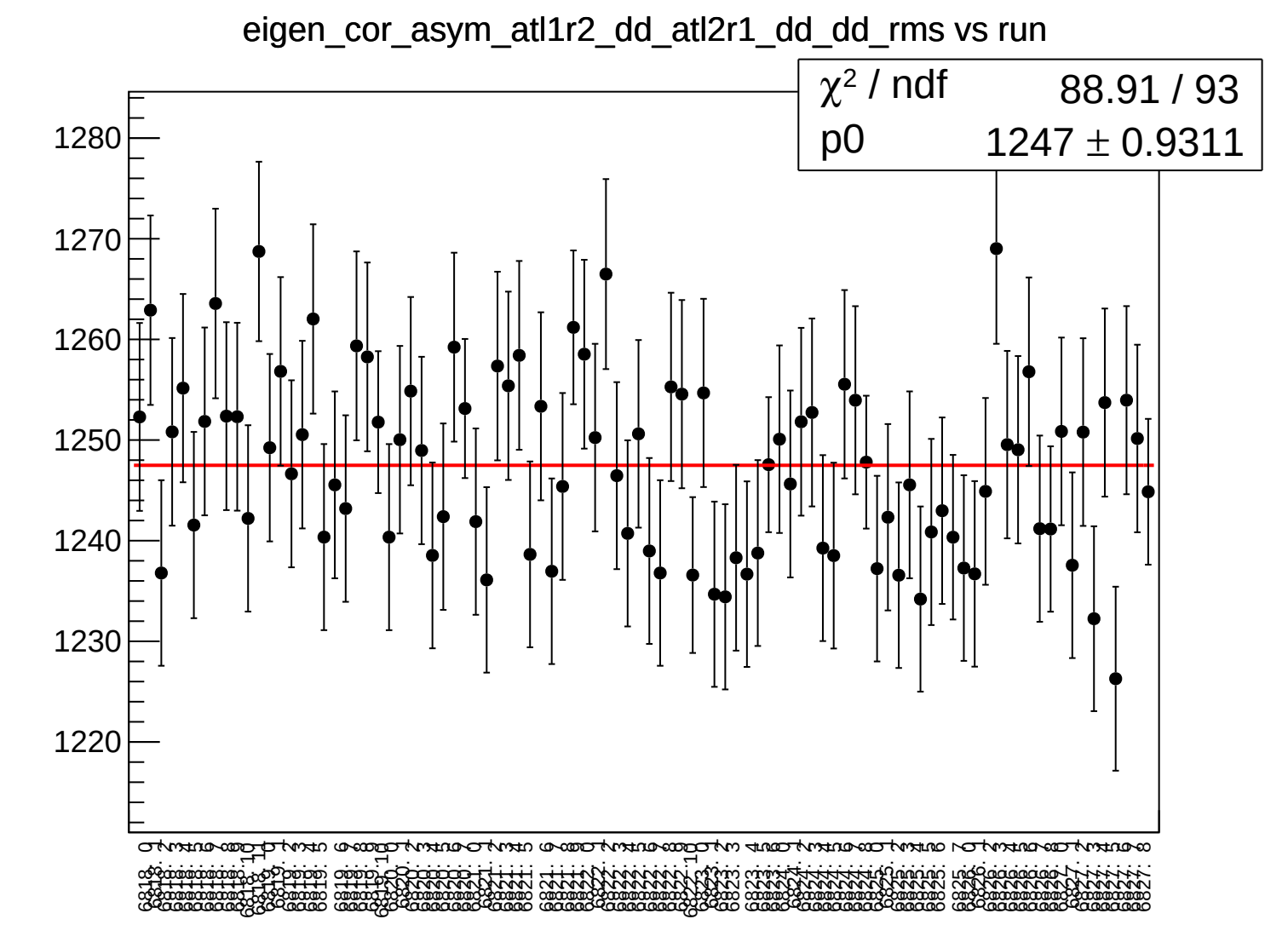

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2

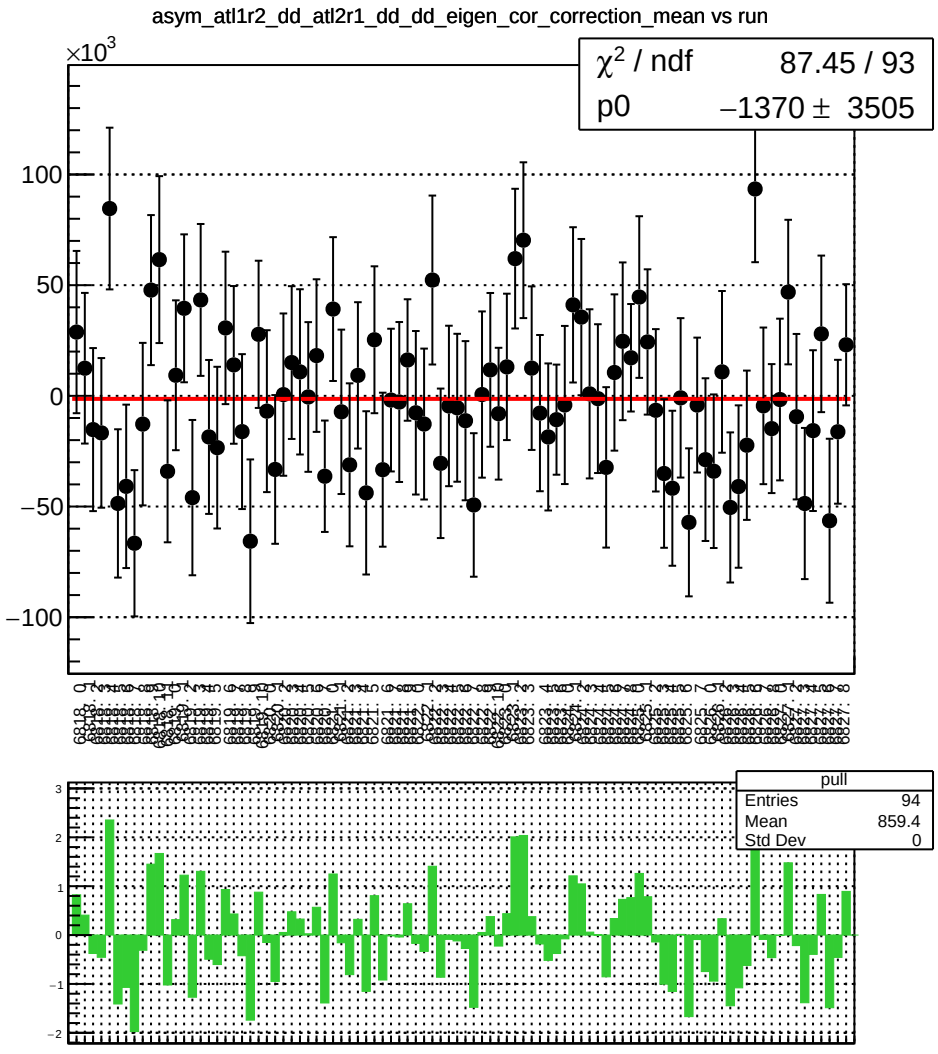

pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

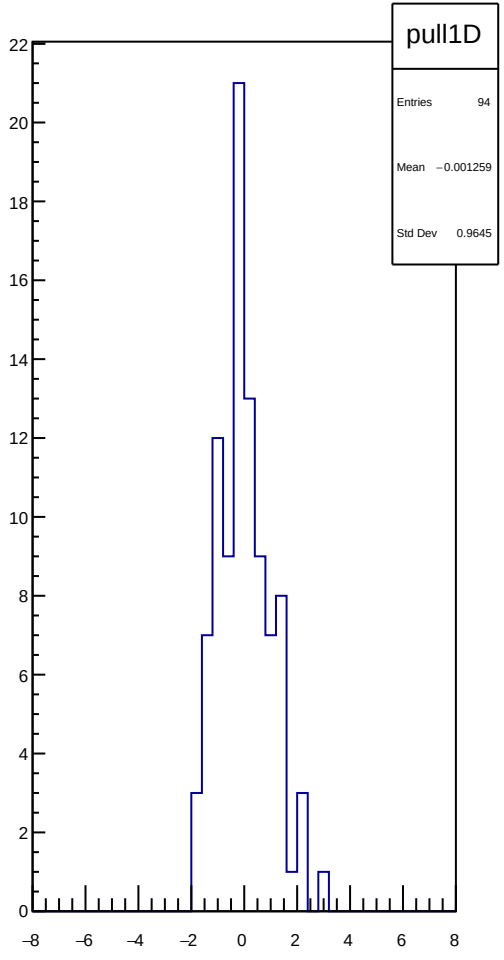

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000

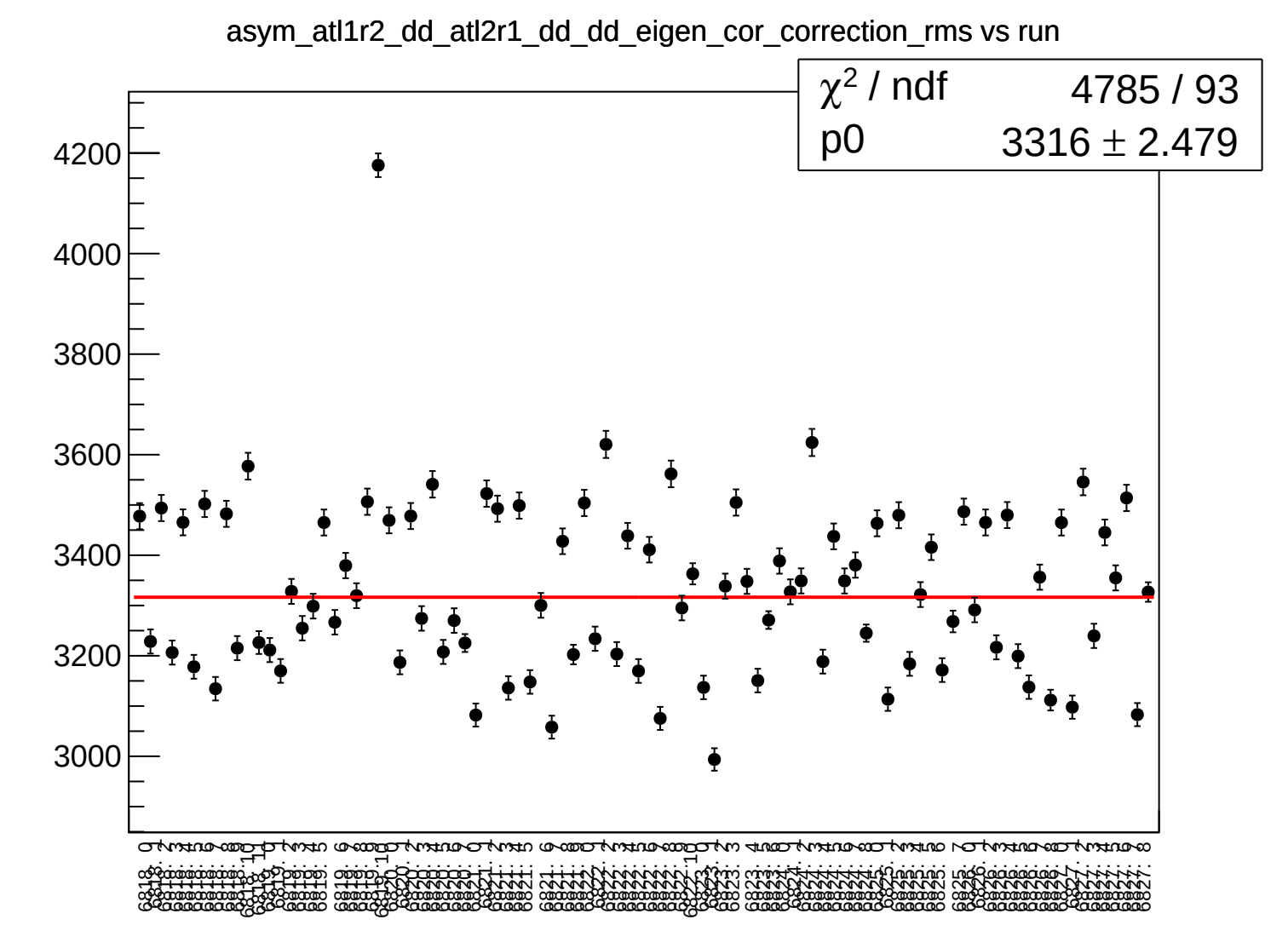

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 95.44 / 93
p0 1534 ± 1317
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −60.82
Std Dev 0
2
1
0
−1
−2

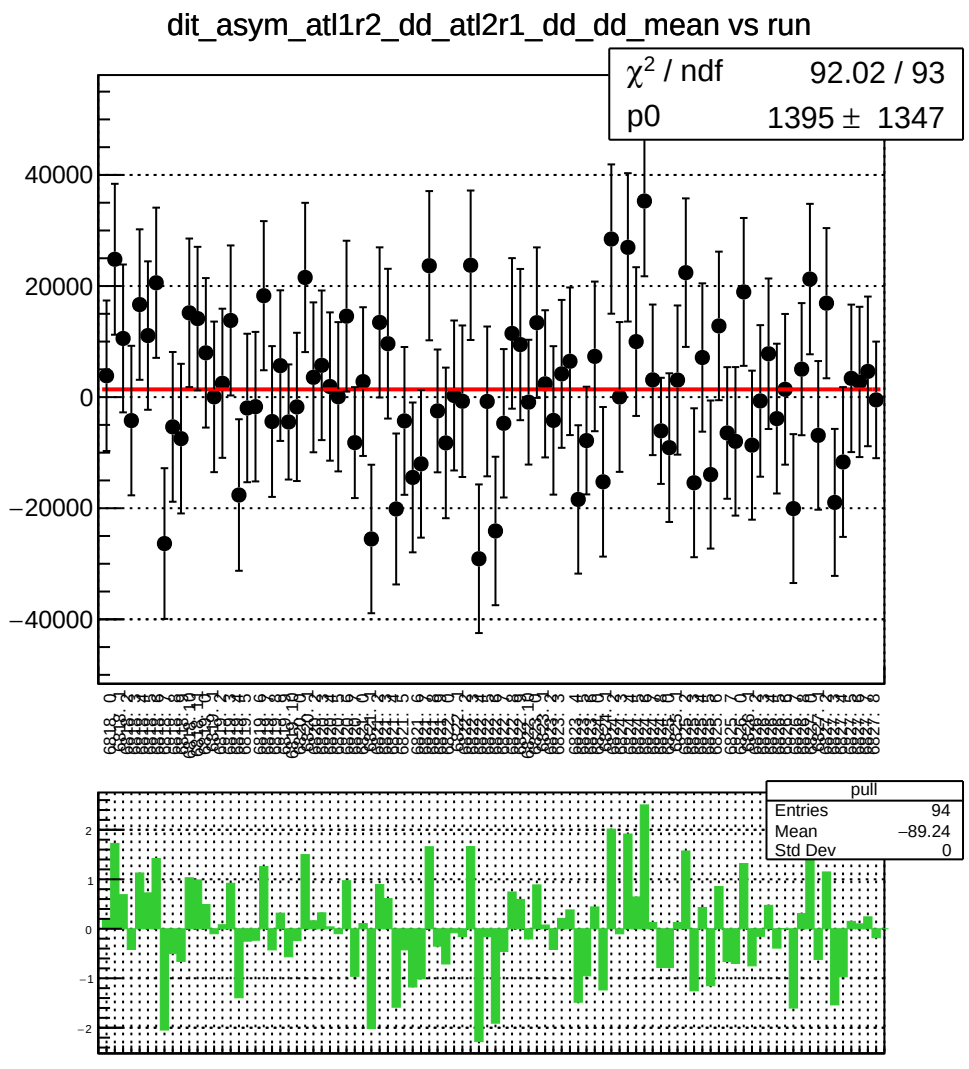

pull1D
Entries 94
Mean 0.01776
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

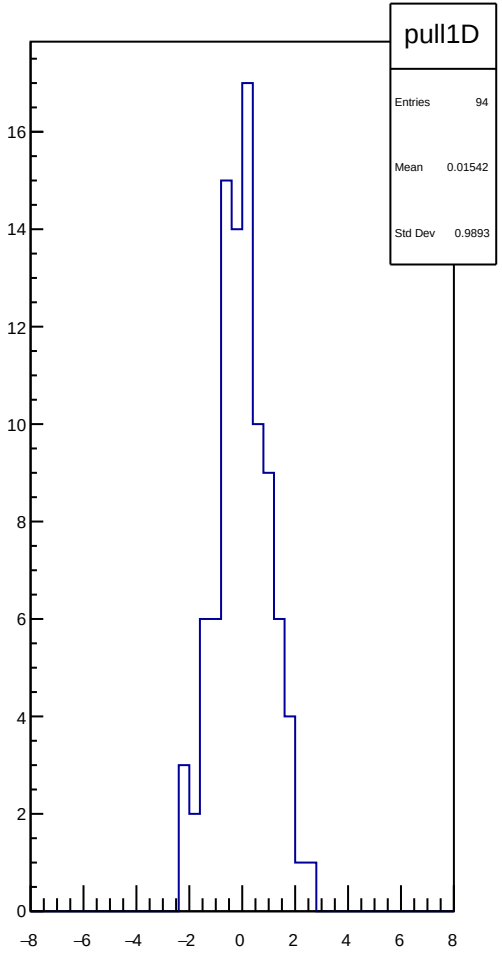

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 88.91 / 93
p0 1247 ± 0.9311
1280
1270
1260
1250
1240
1230
1220

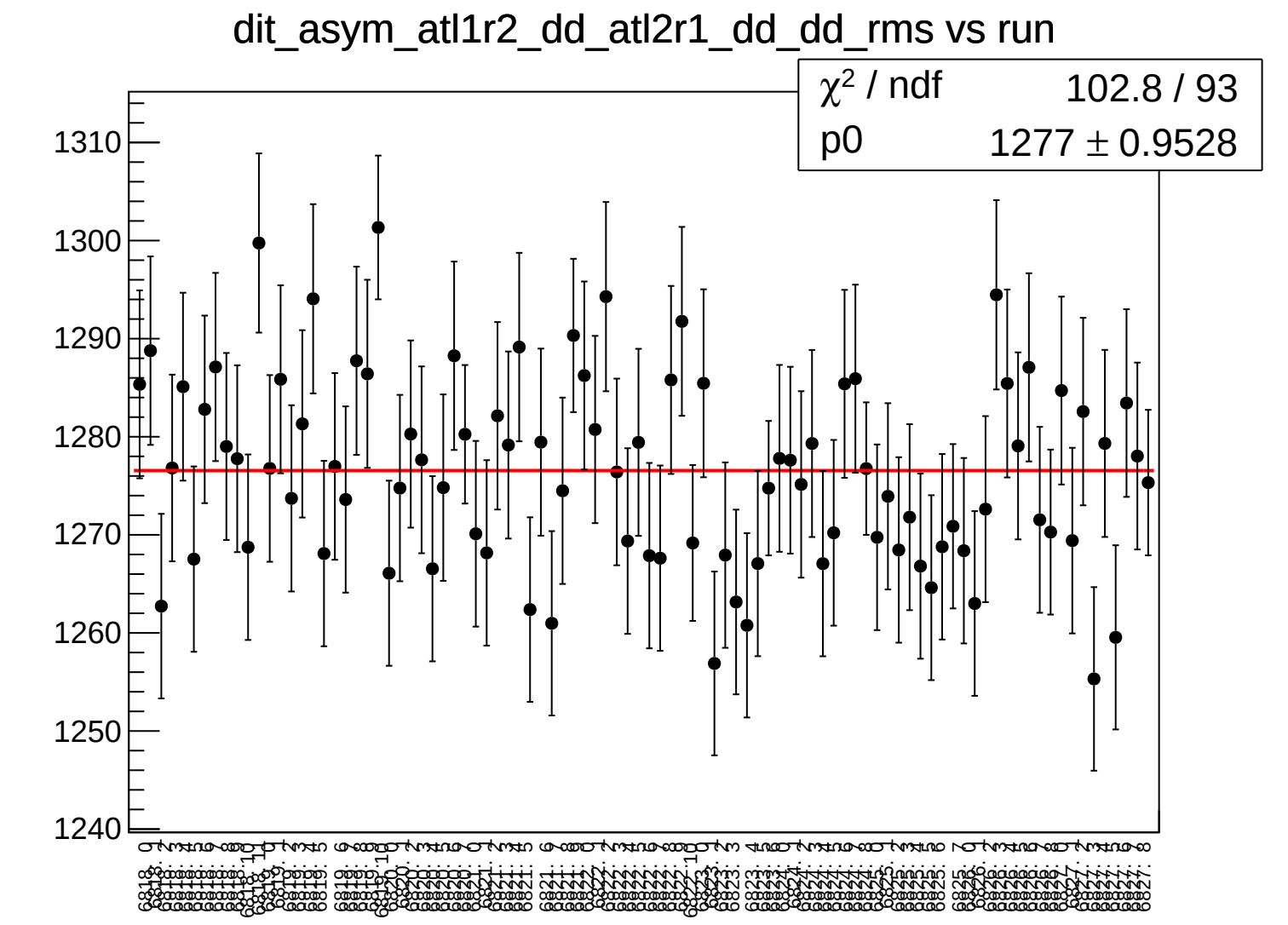

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.45 / 93
p0 −1370 ± 3505
100
50
0
−50
−100
pull
Entries 94
Mean 859.4
Std Dev 0
3
2
1
0
−1
−2

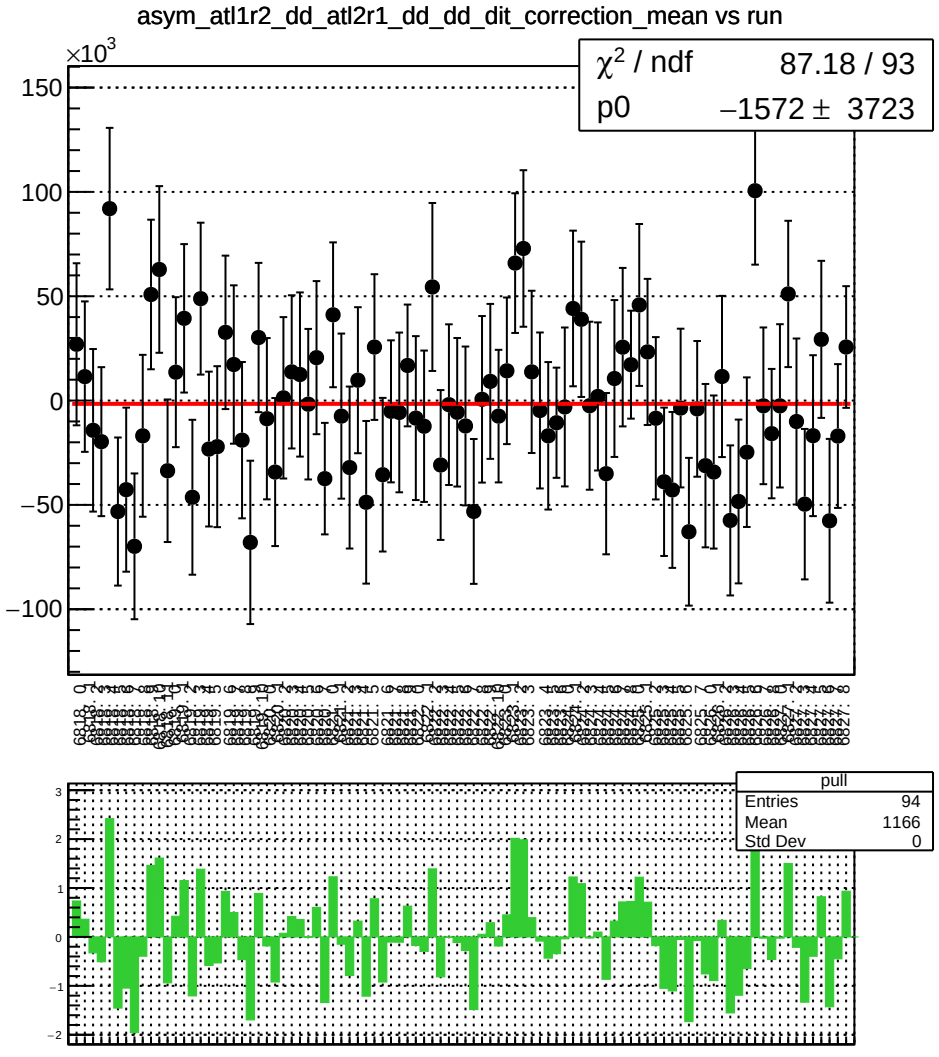

pull1D
Entries 94
Mean −0.001259
Std Dev 0.9645
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

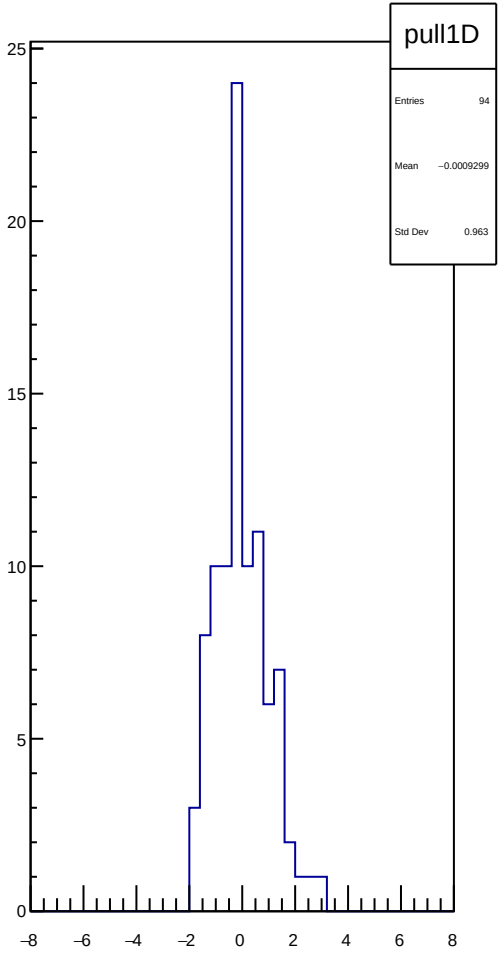

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4785 / 93
p0 3316 ± 2.479
4200
4000
3800
3600
3400
3200
3000

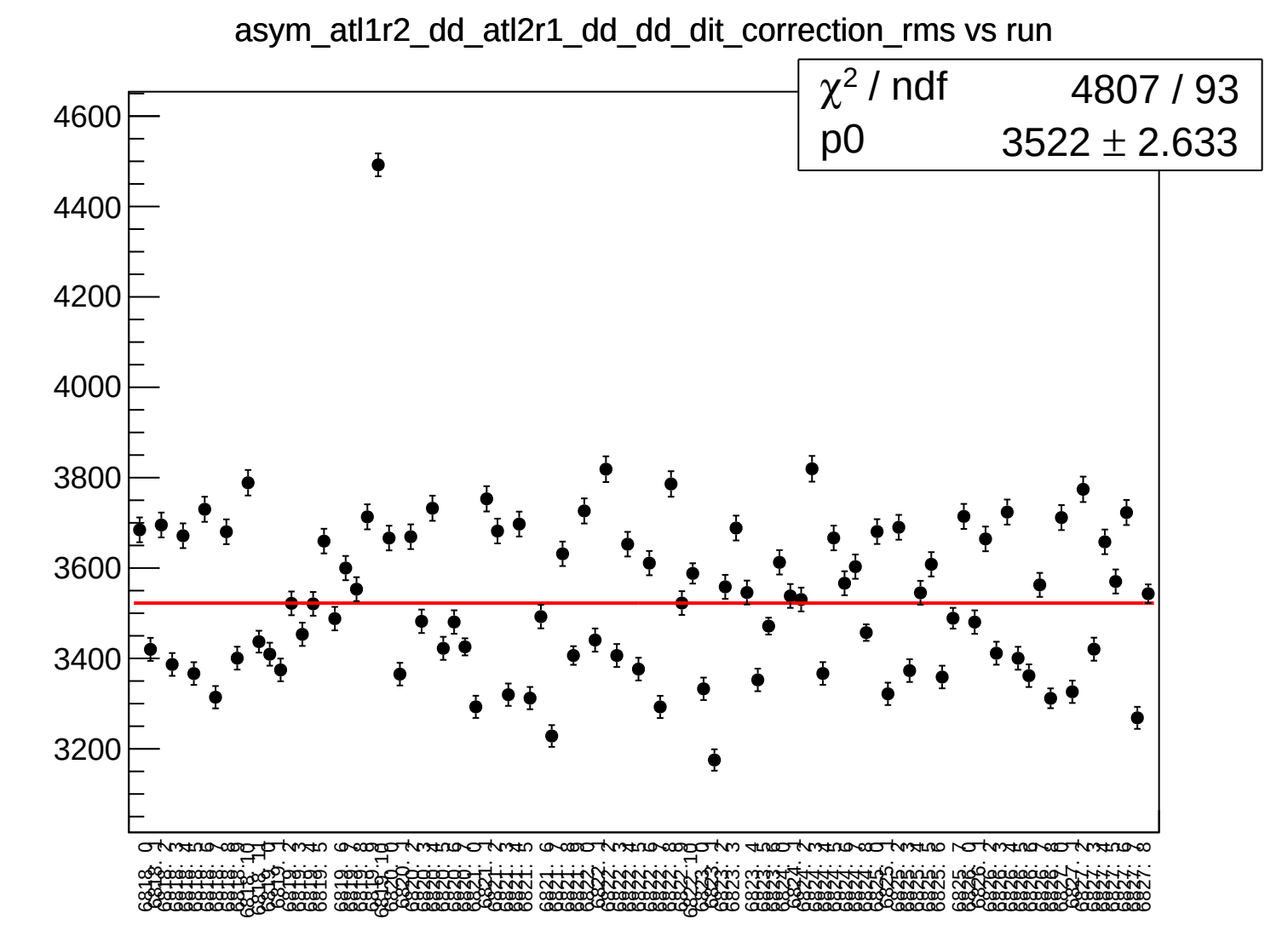

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2

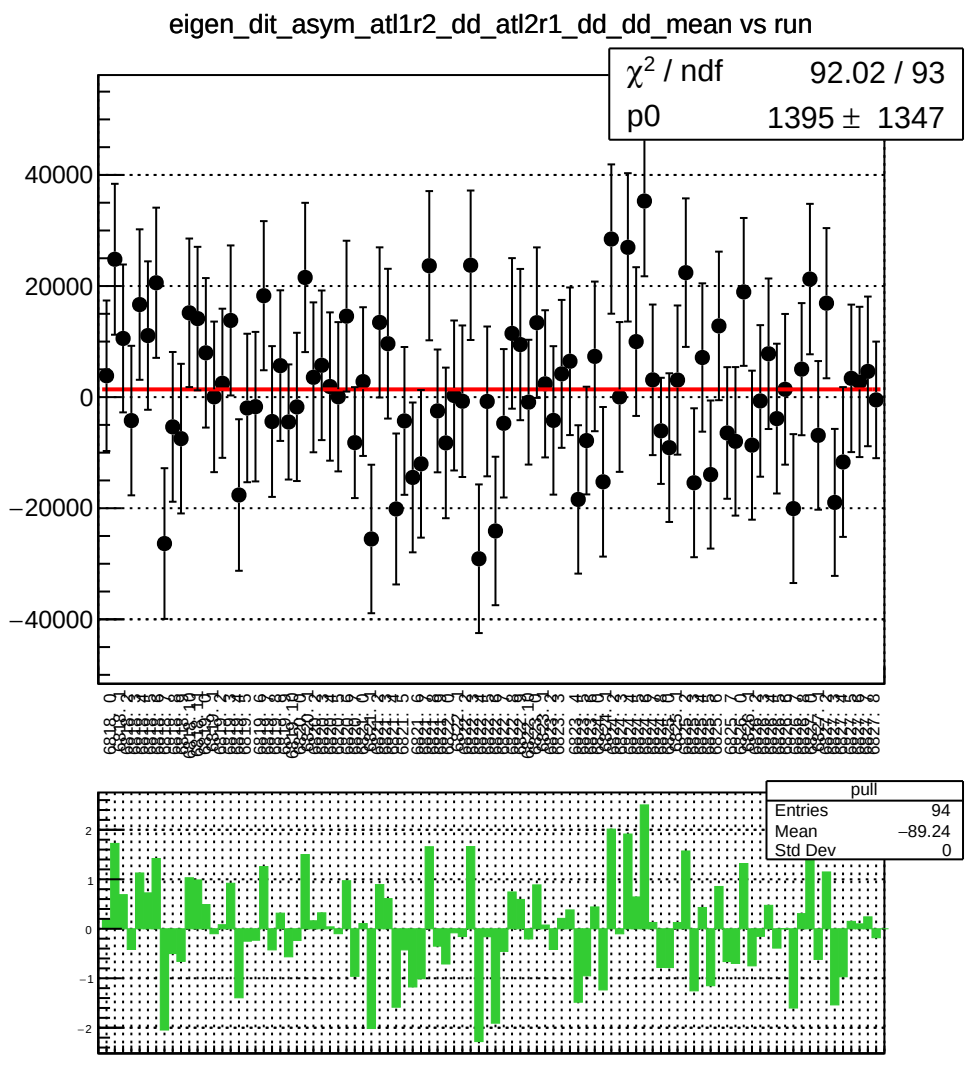

pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

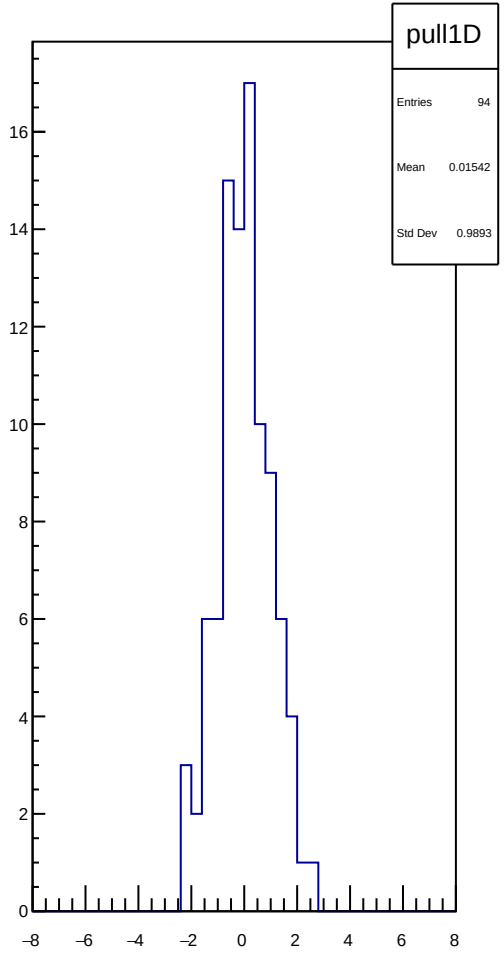

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

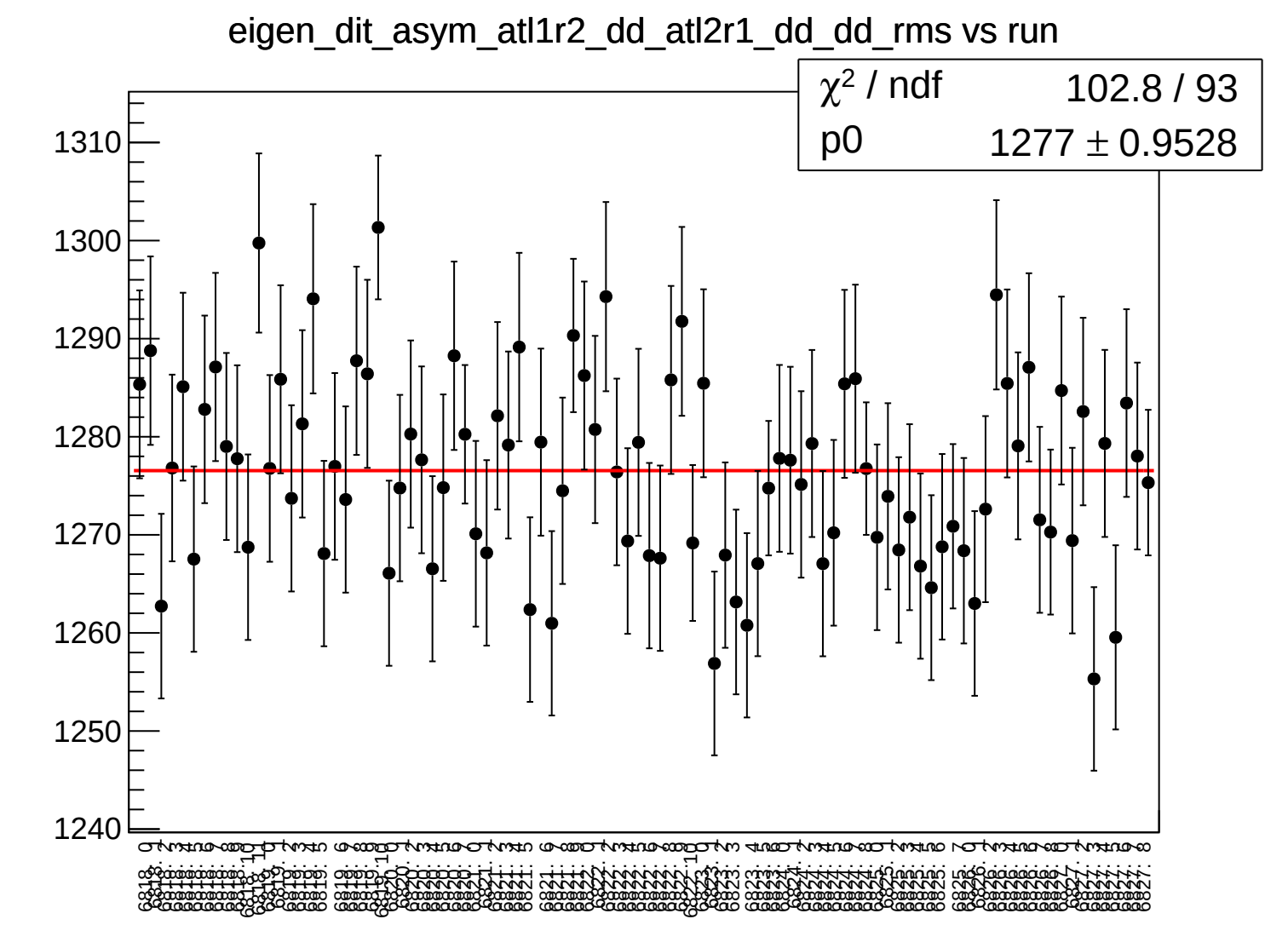

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

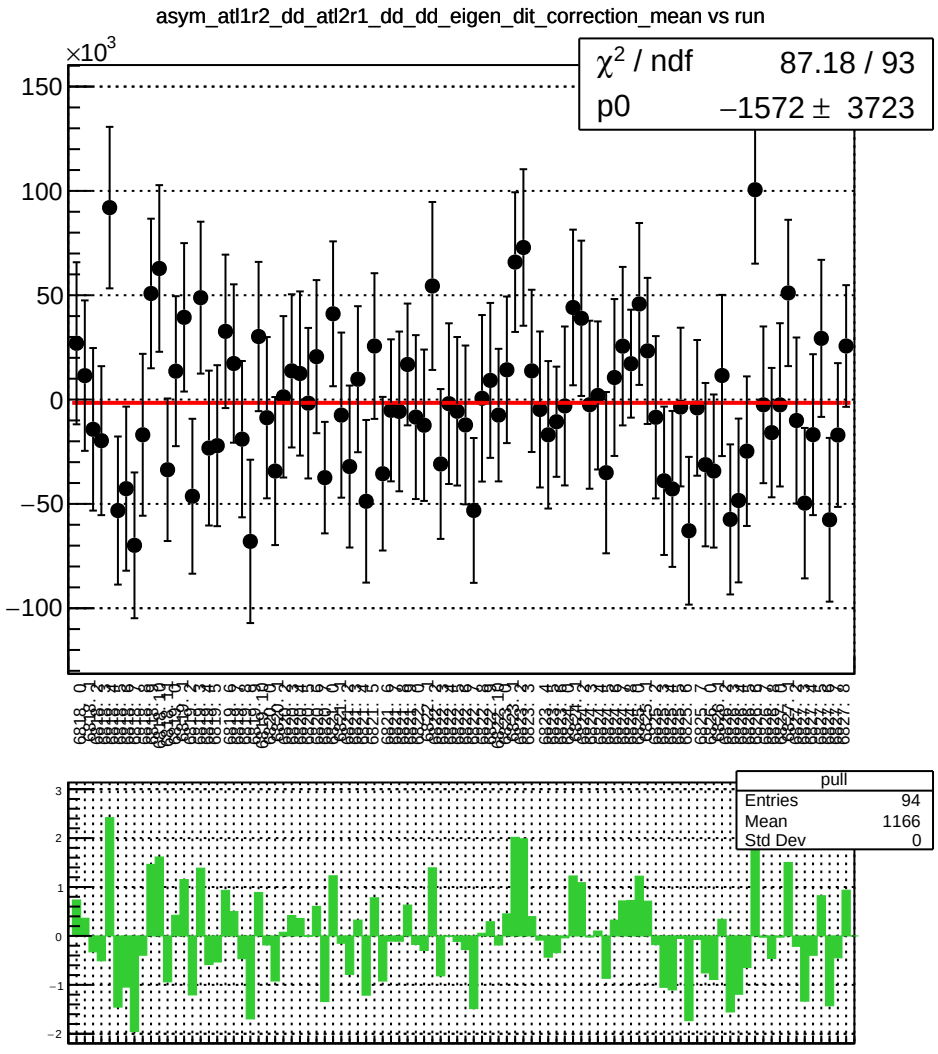

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

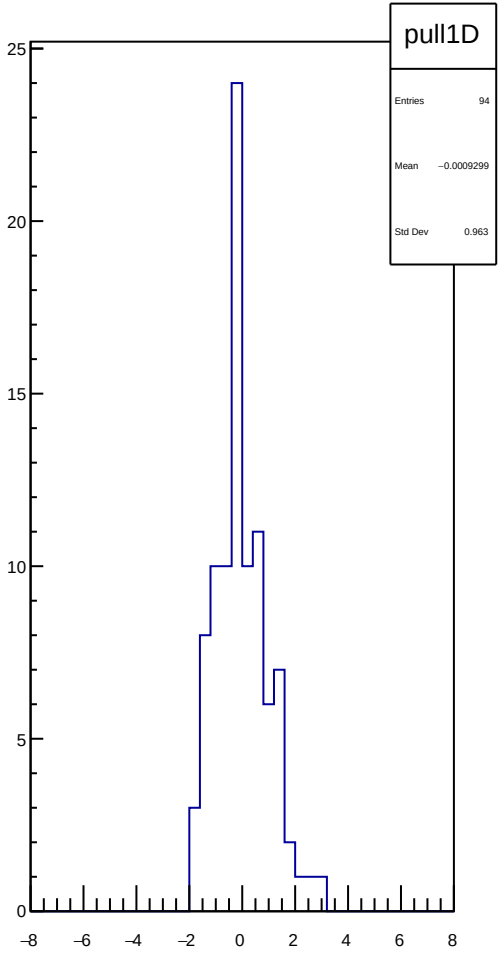

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

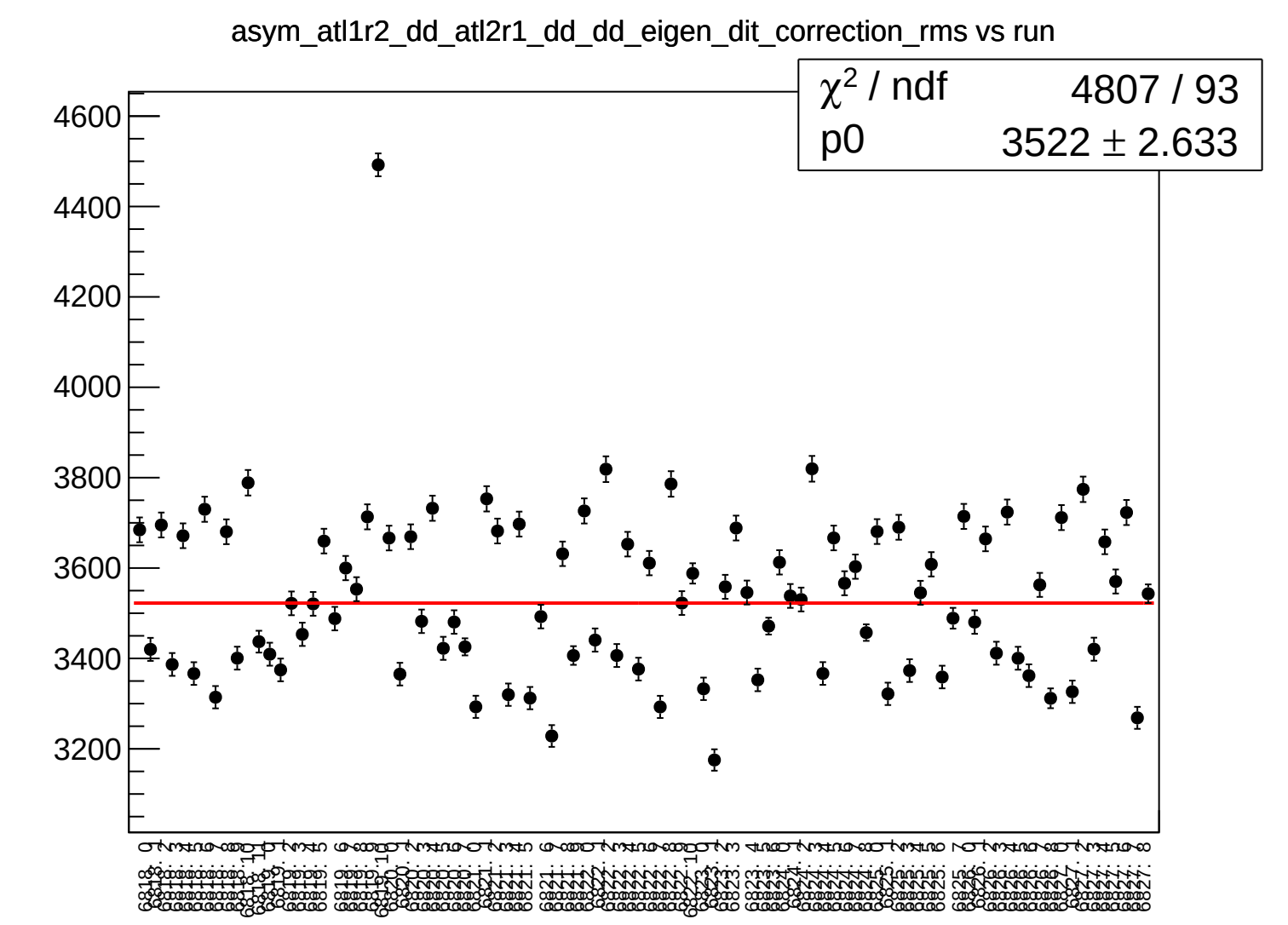

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 92.02 / 93
p0 1395 ± 1347
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −89.24
Std Dev 0
2
1
0
−1
−2

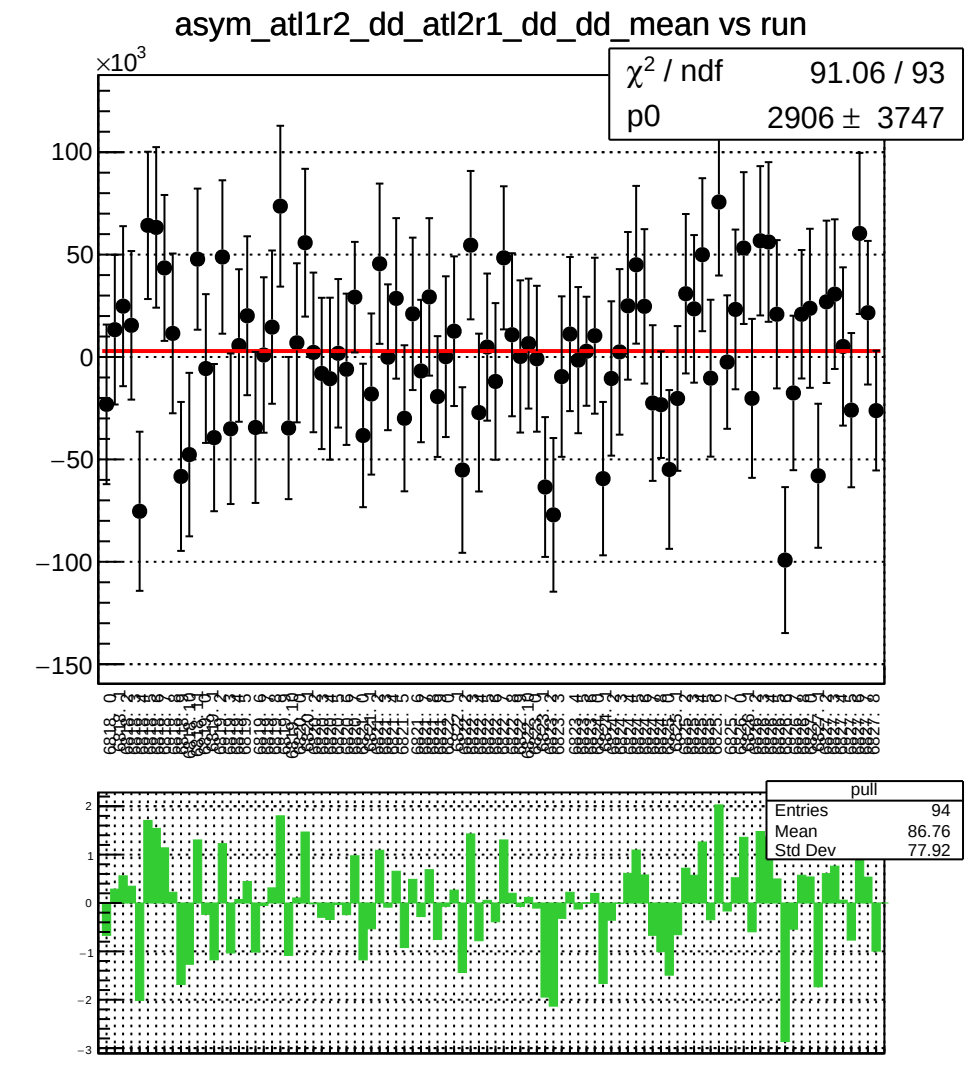

pull1D
Entries 94
Mean 0.01542
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

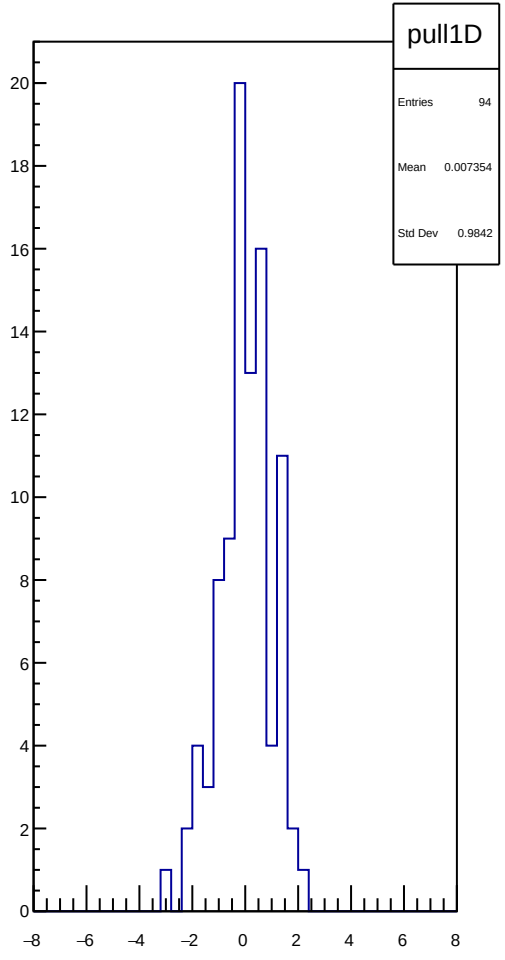

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 102.8 / 93
p0 1277 ± 0.9528
1310
1300
1290
1280
1270
1260
1250
1240

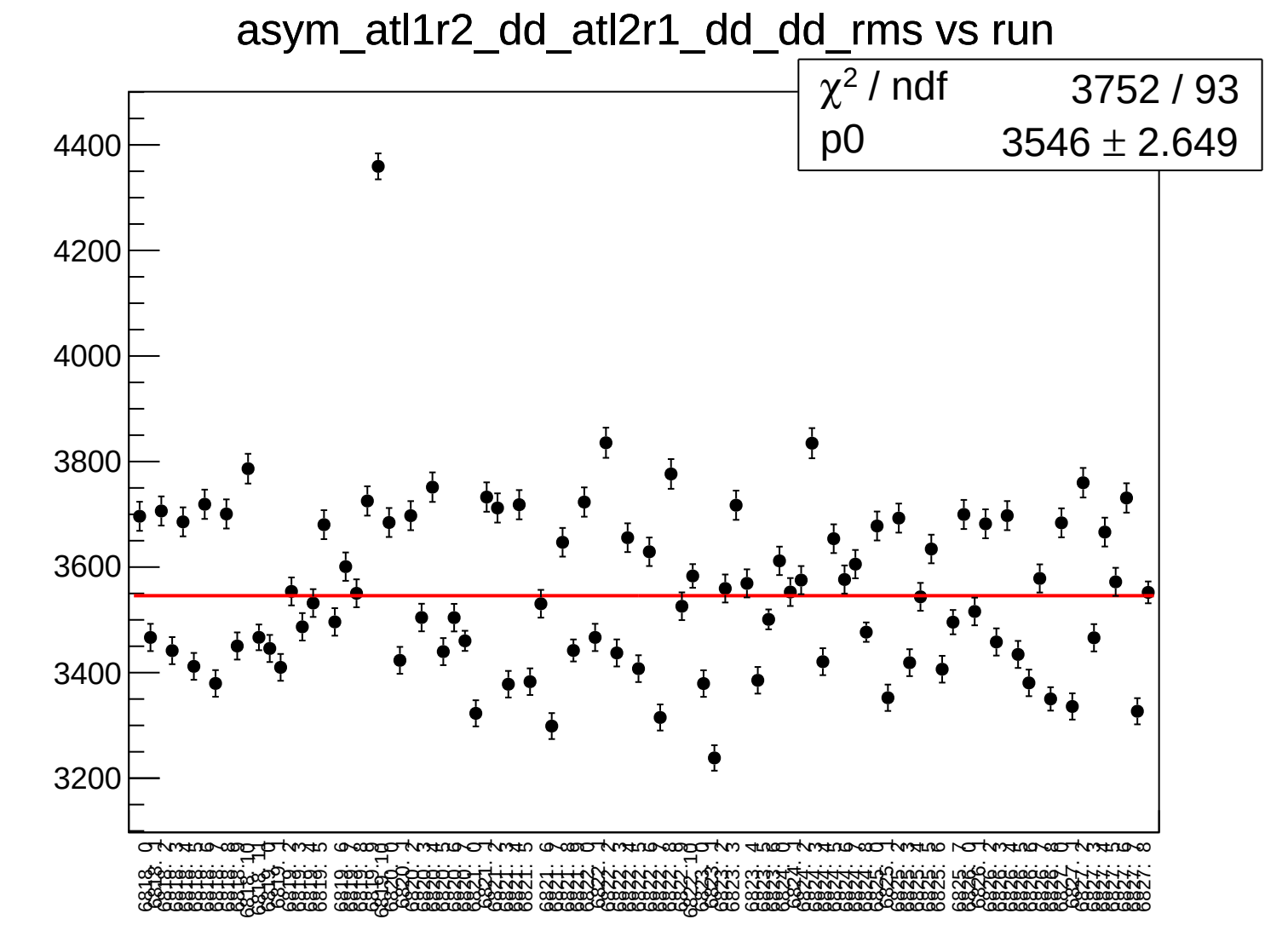

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.18 / 93
p0 −1572 ± 3723
150
100
50
0
−50
−100
pull
Entries 94
Mean 1166
Std Dev 0
3
2
1
0
−1
−2

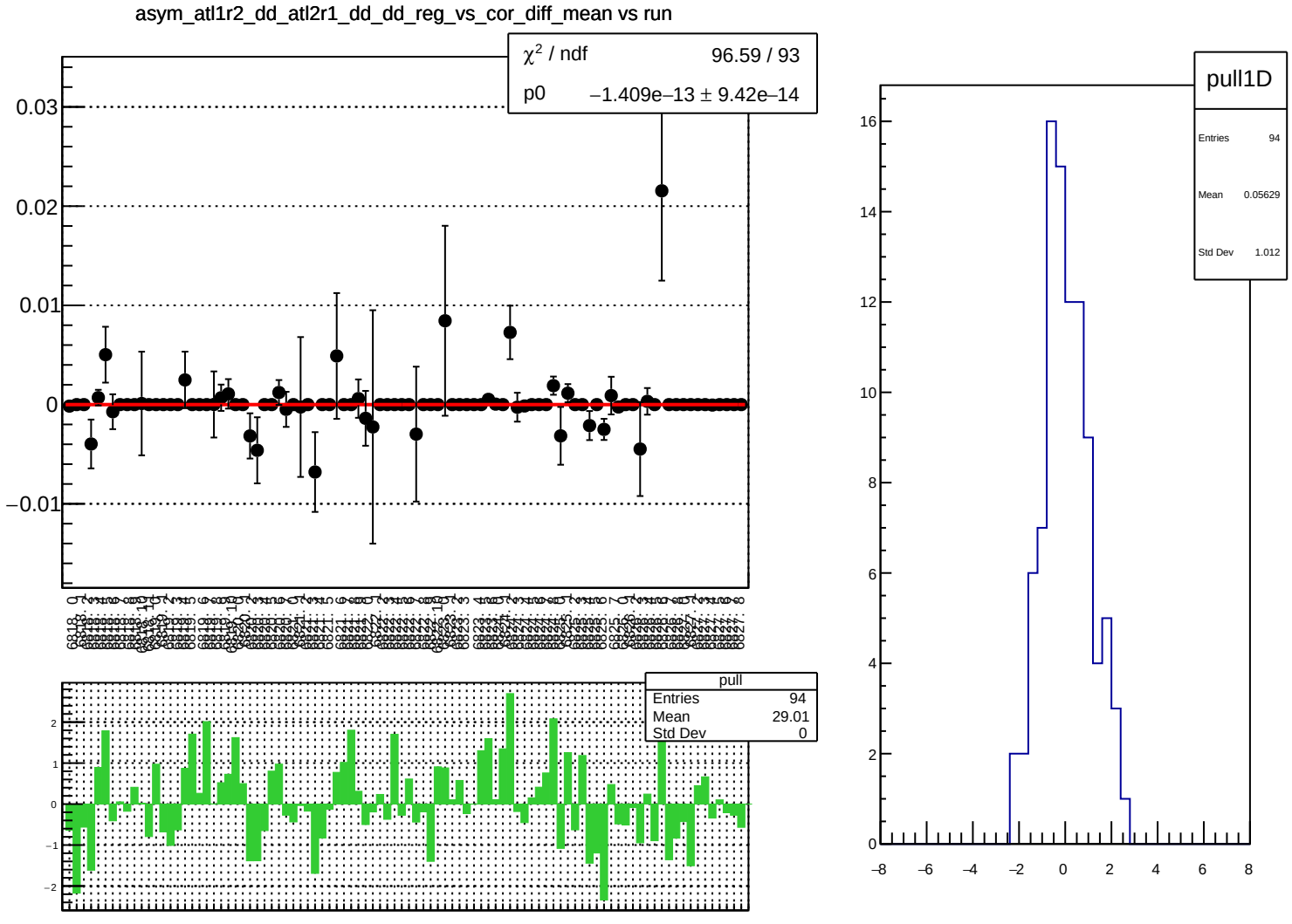

pull1D
Entries 94
Mean −0.0009299
Std Dev 0.963
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

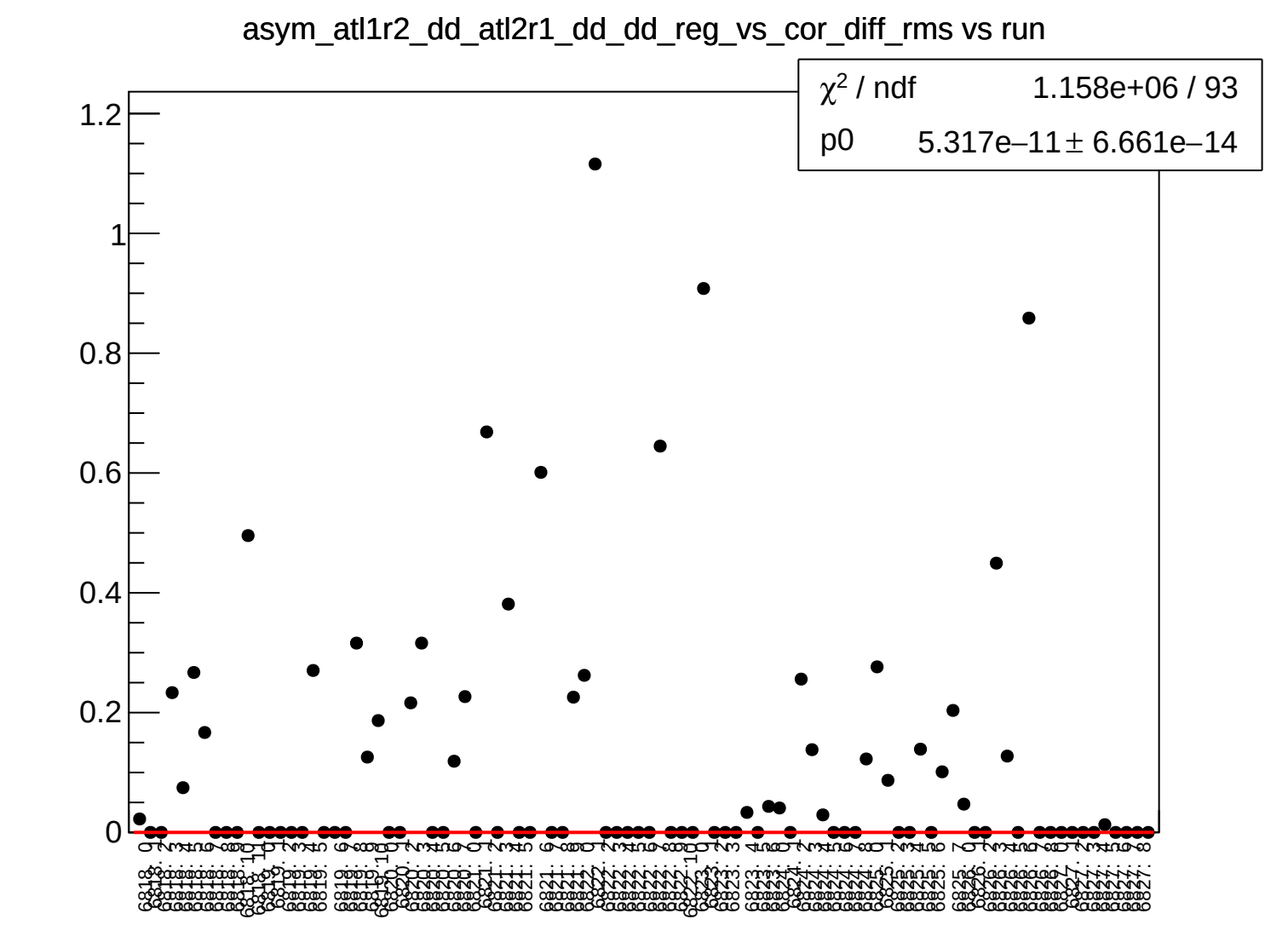

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4807 / 93
p0 3522 ± 2.633
4600
4400
4200
4000
3800
3600
3400
3200

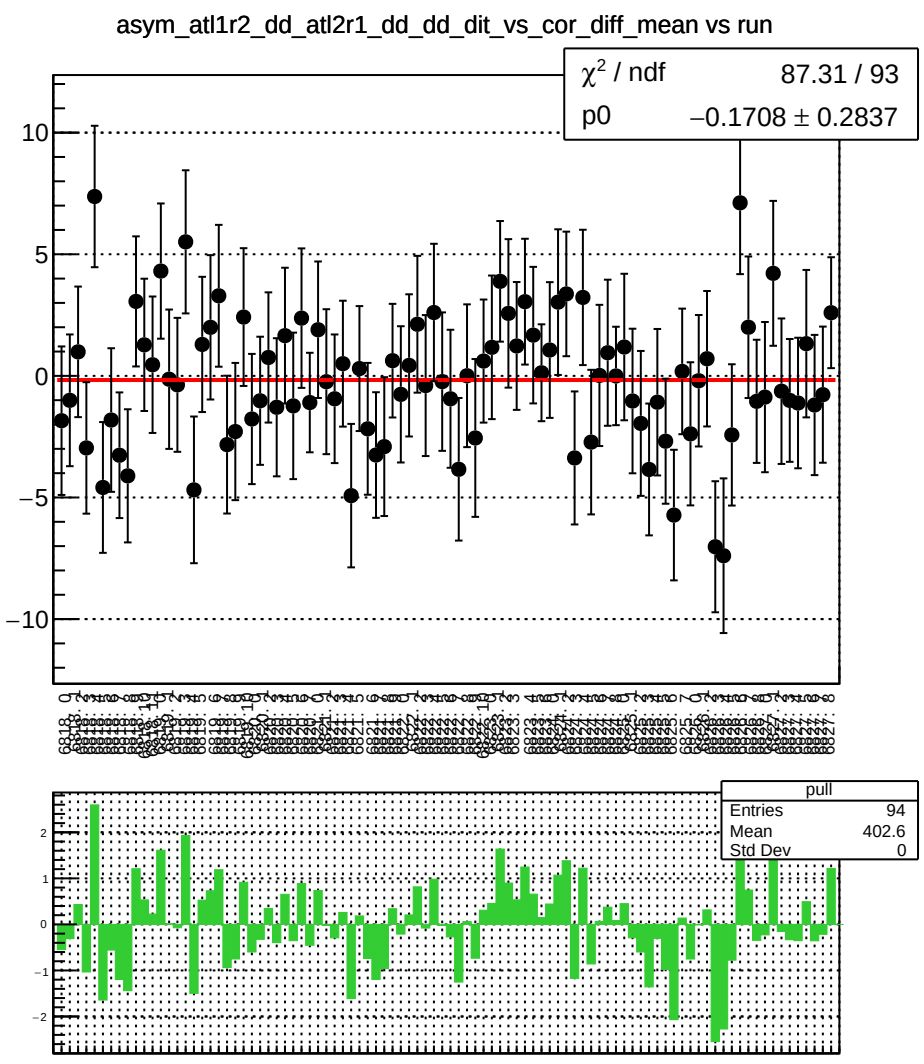

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 91.06 / 93
p0 2906 ± 3747
100
50
0
−50
−100
−150
pull
Entries 94
Mean 86.76
Std Dev 77.92
2
1
0
−1
−2
−3

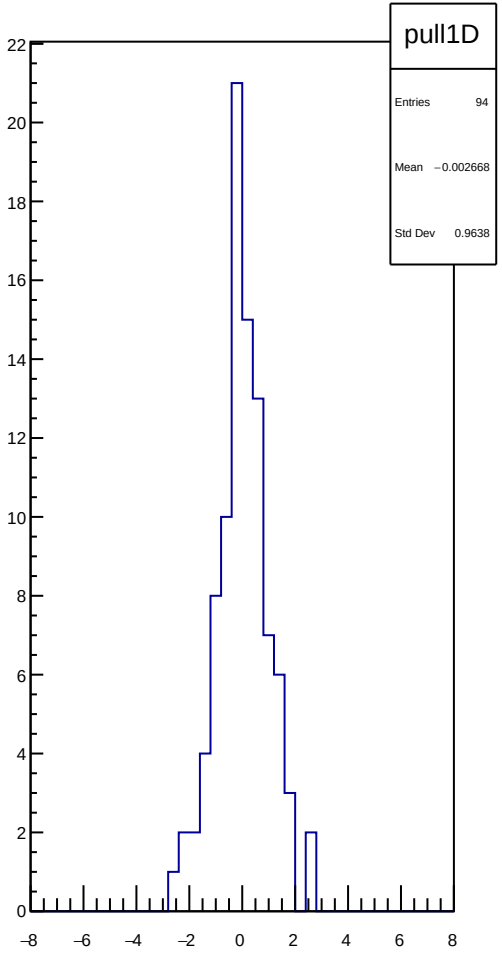

pull1D
Entries 94
Mean 0.007354
Std Dev 0.9842
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

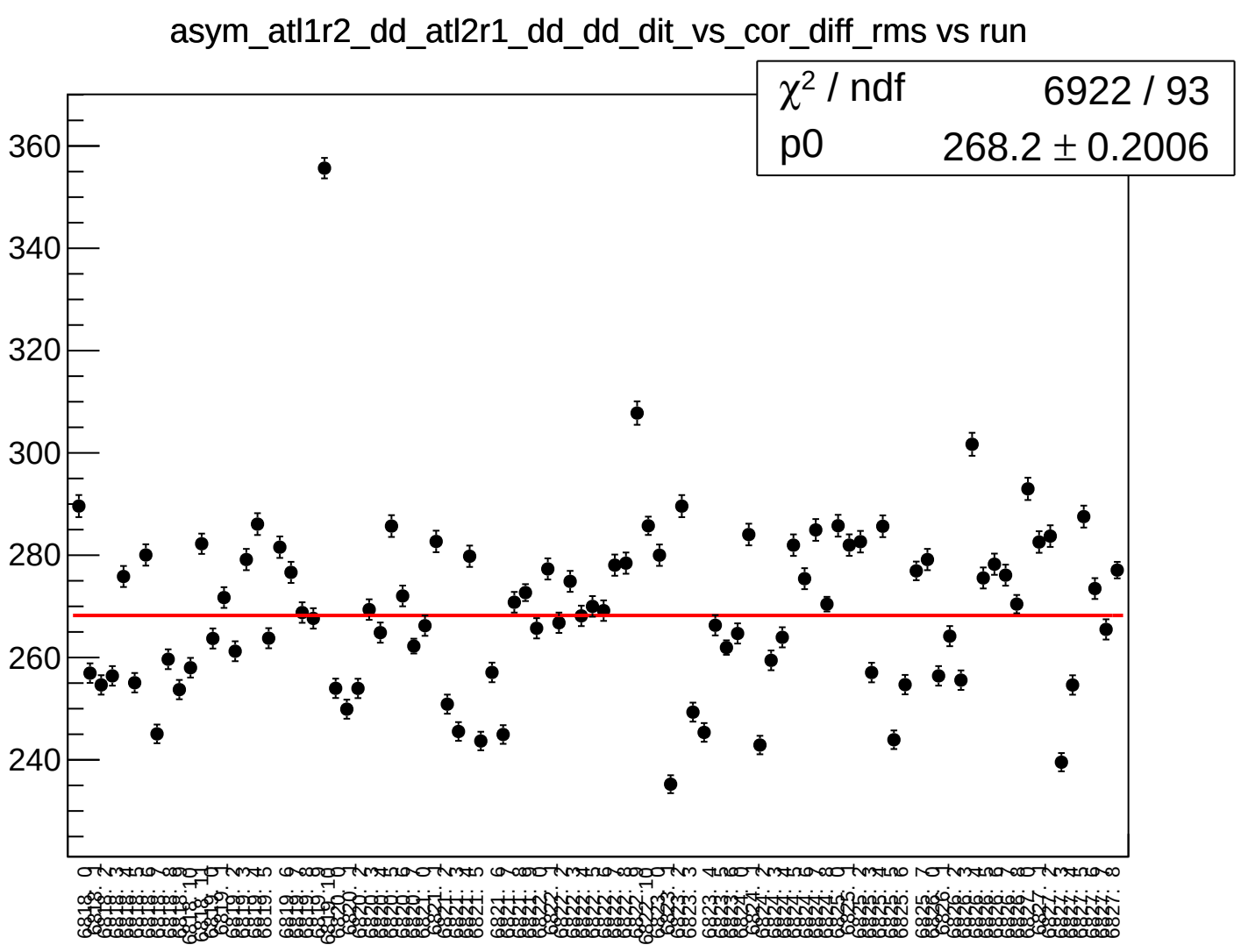

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ^2 / ndf 3752 / 93
p0 3546 ± 2.649
4400
4200
4000
3800
3600
3400
3200

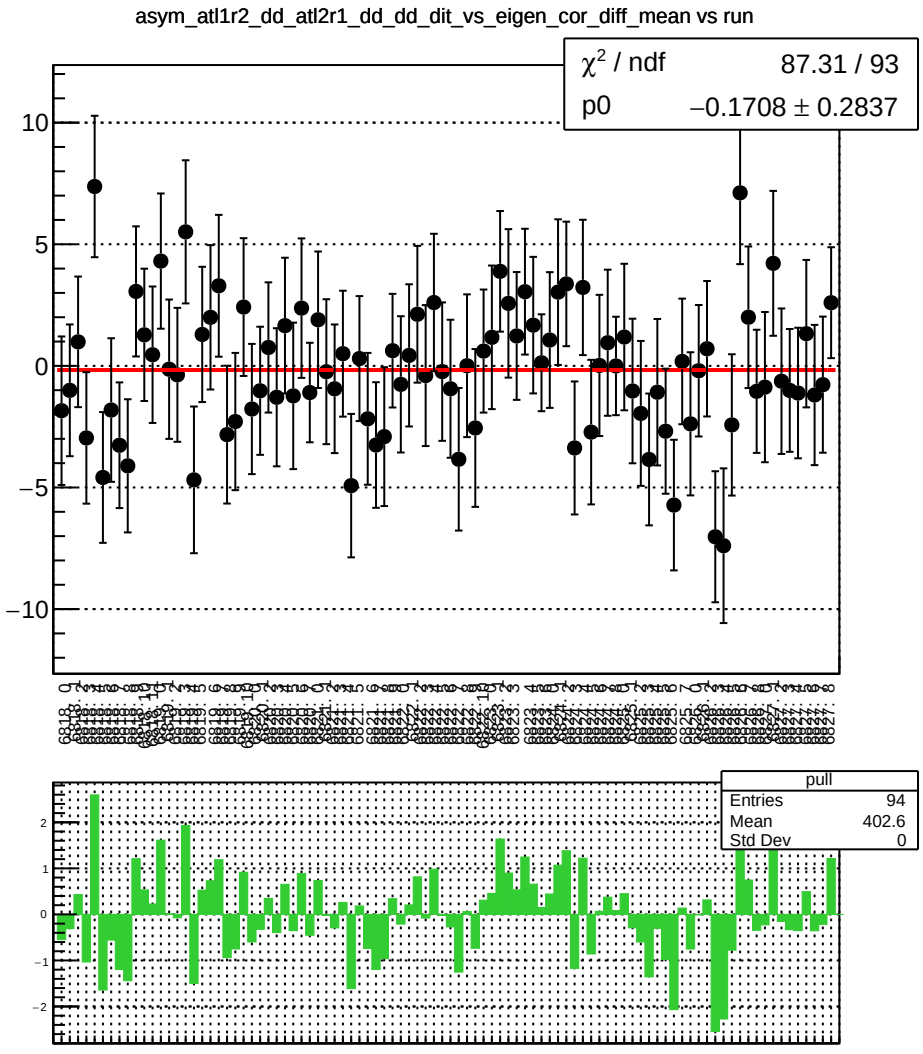

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.59 / 93
p0 −1.409e−13 ± 9.42e−14
0.03
0.02
0.01
0
−0.01
pull
Entries 94
Mean 29.01
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.05629
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

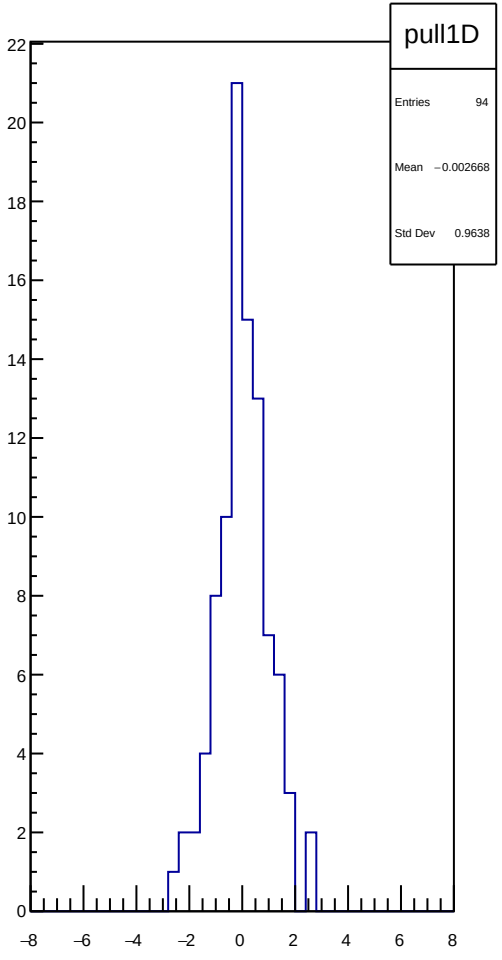

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.158e+06 / 93
p0 5.317e−11 ± 6.661e−14
1.2
1
0.8
0.6
0.4
0.2
0

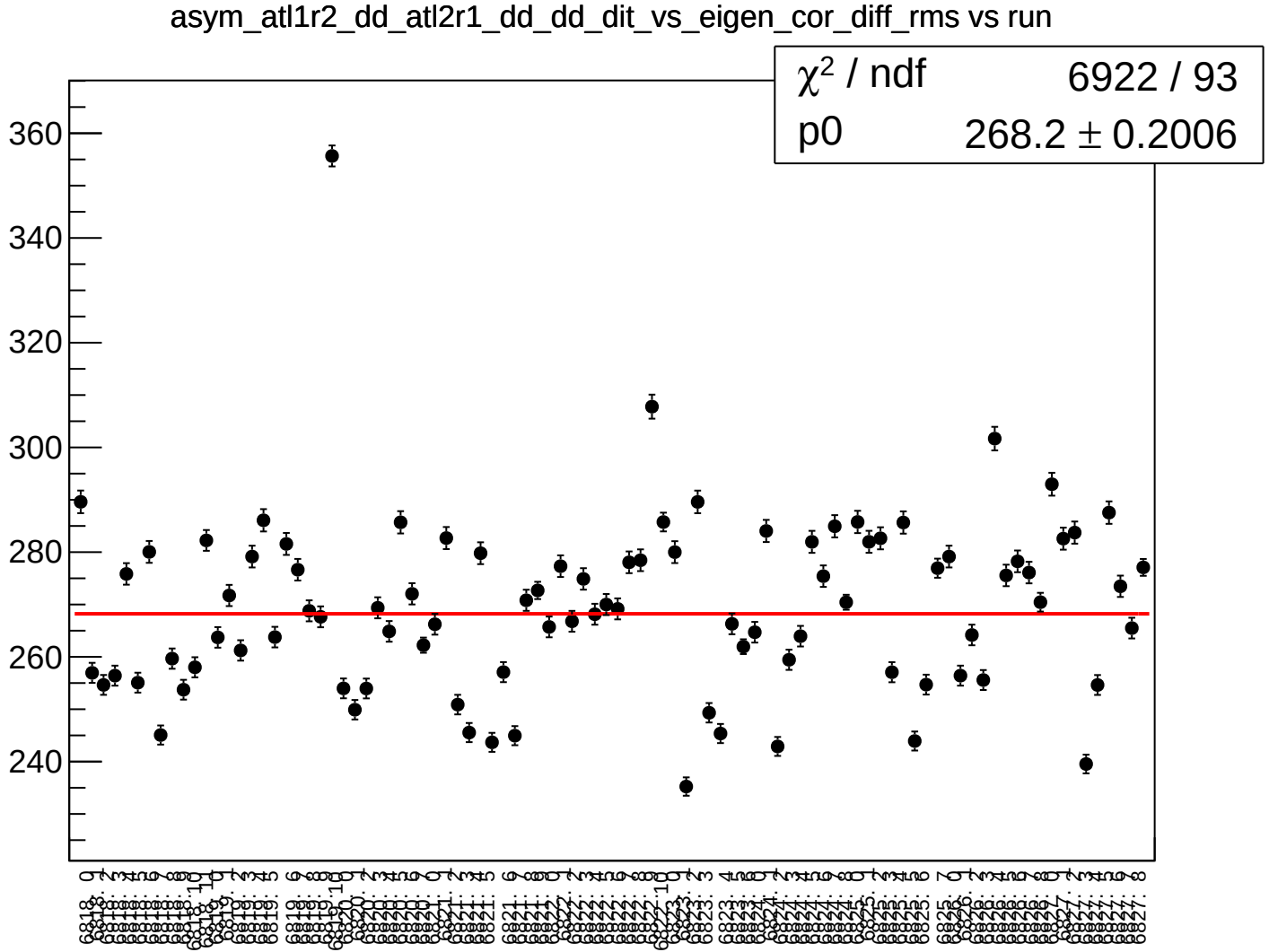

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

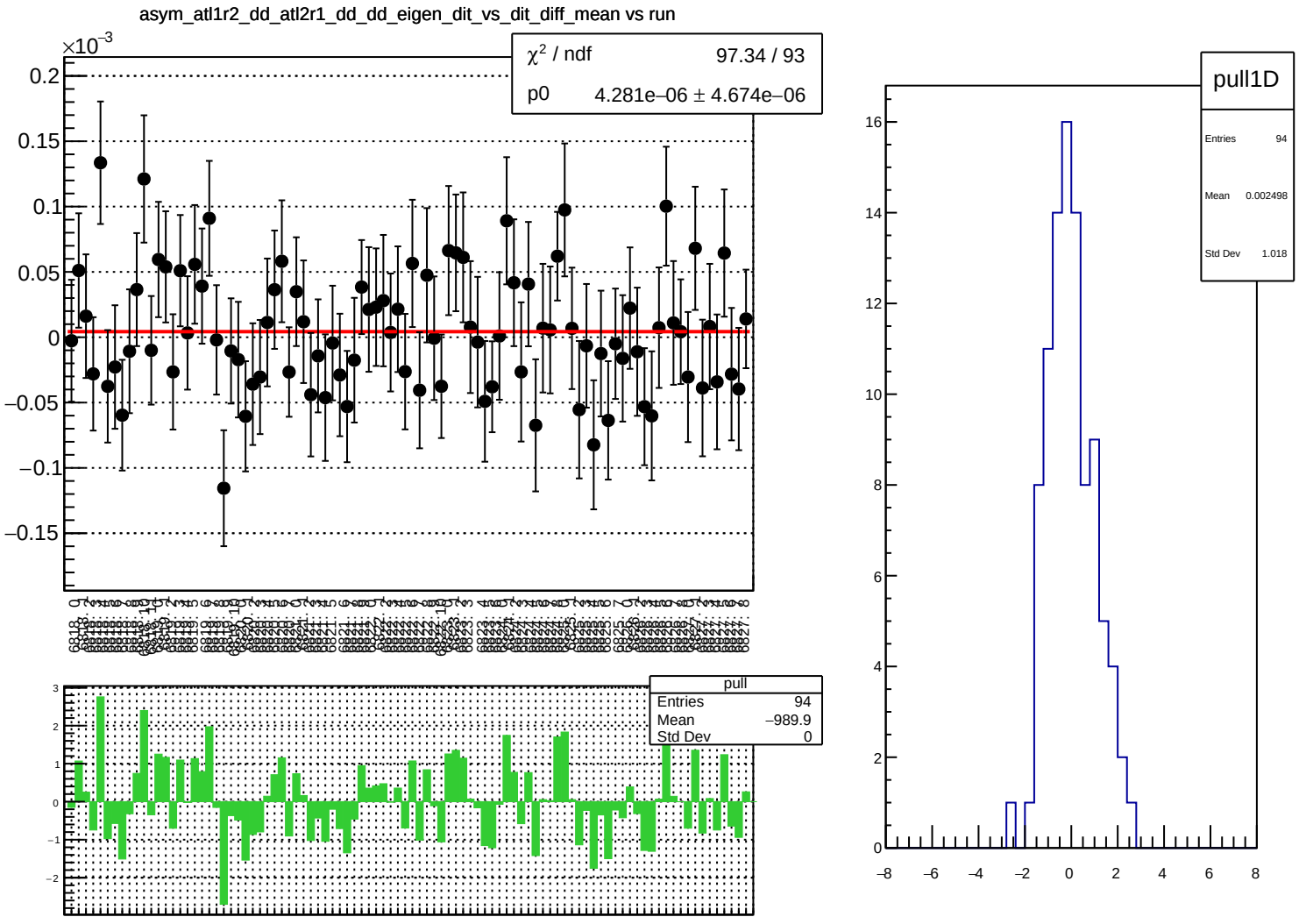

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

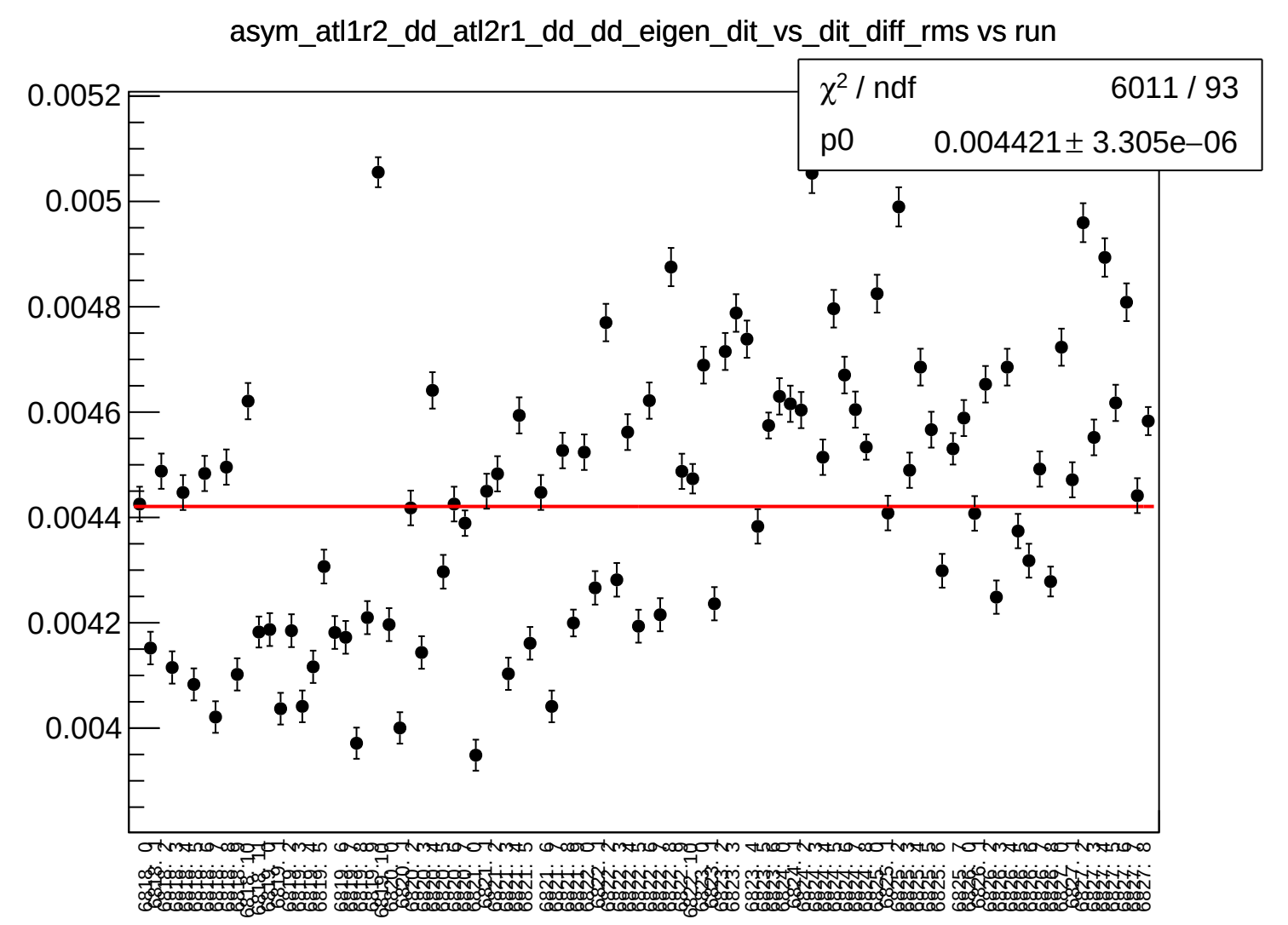

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

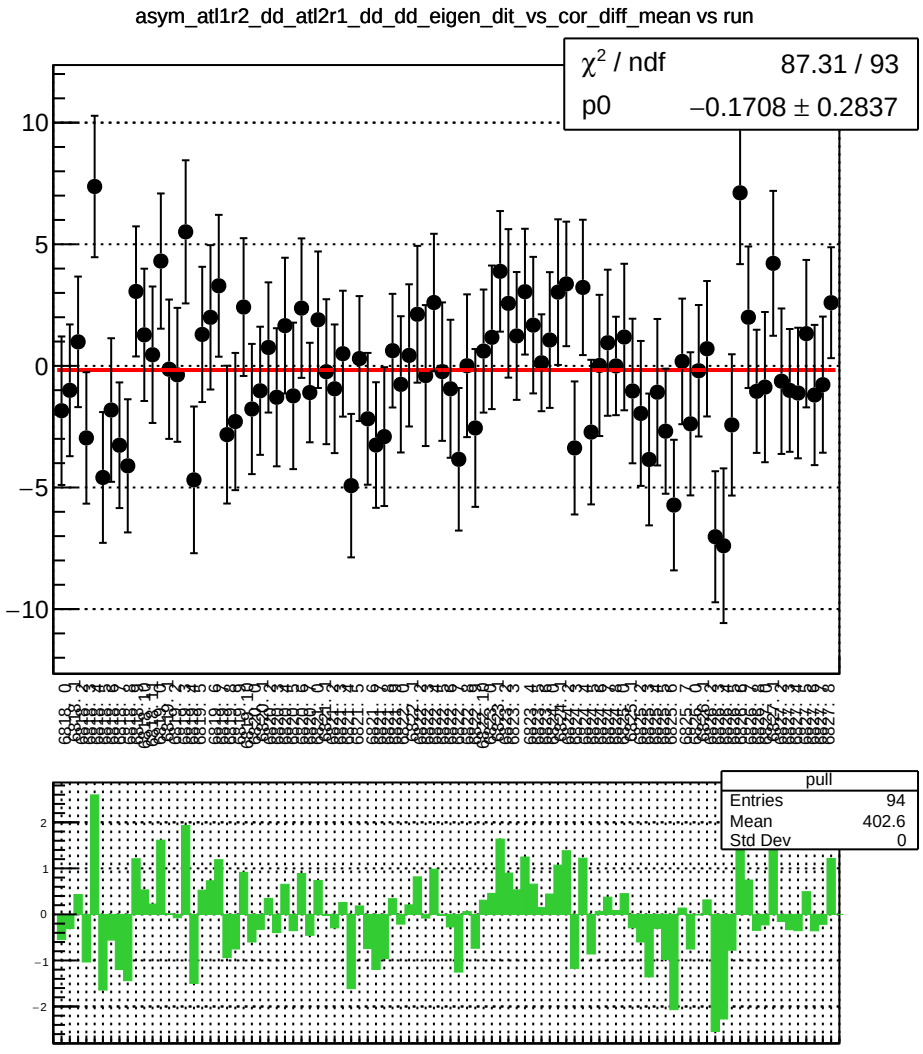

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

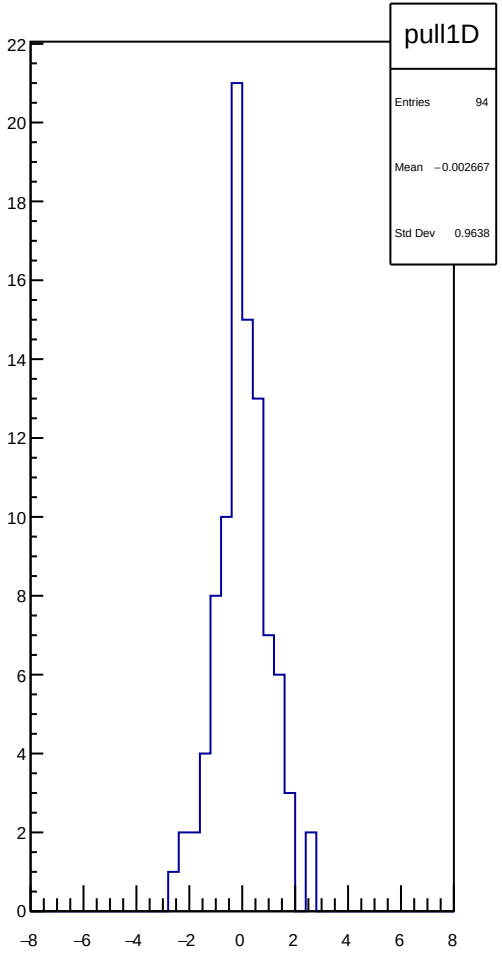

pull1D
Entries 94
Mean −0.002668
Std Dev 0.9638

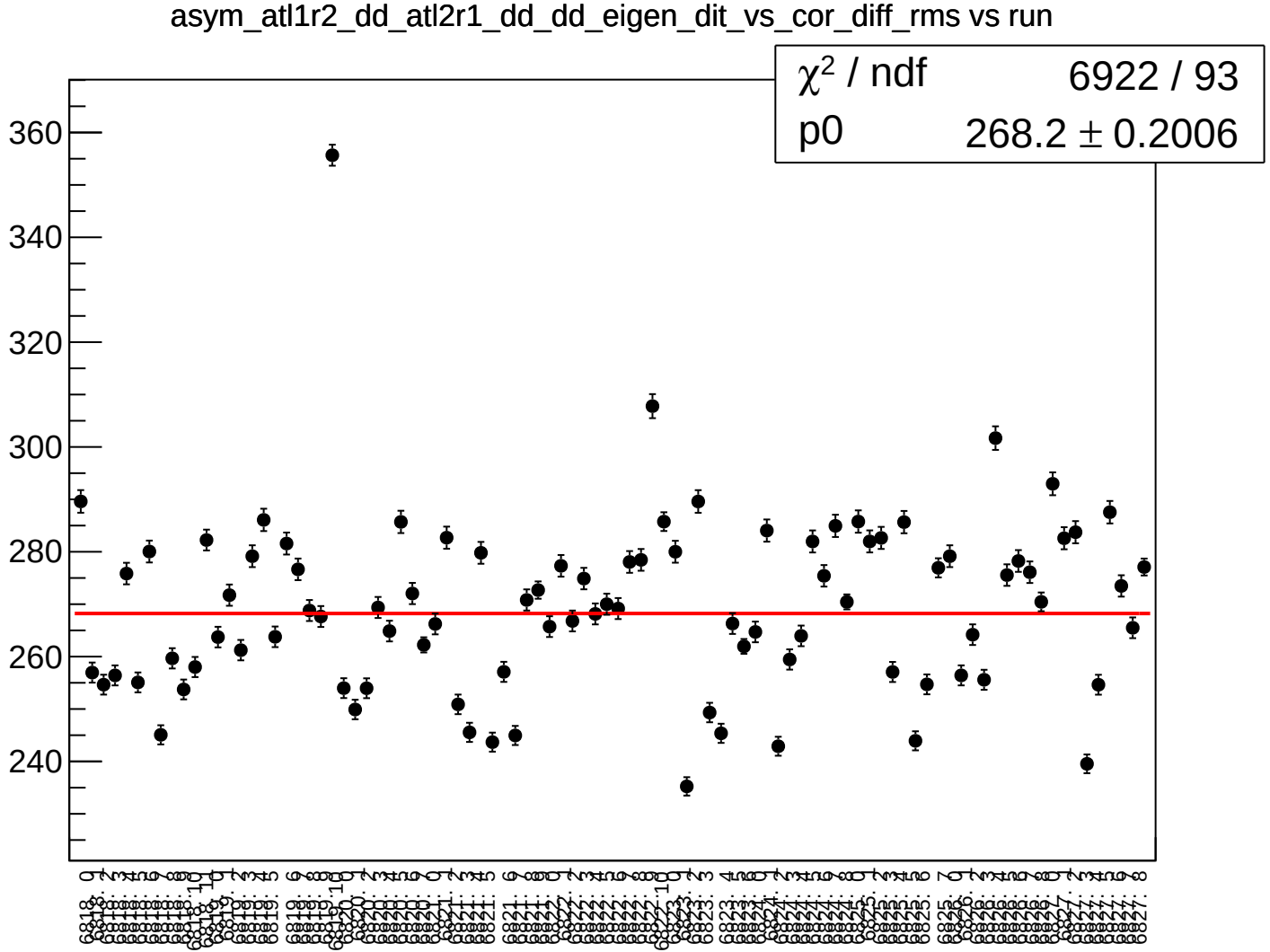

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

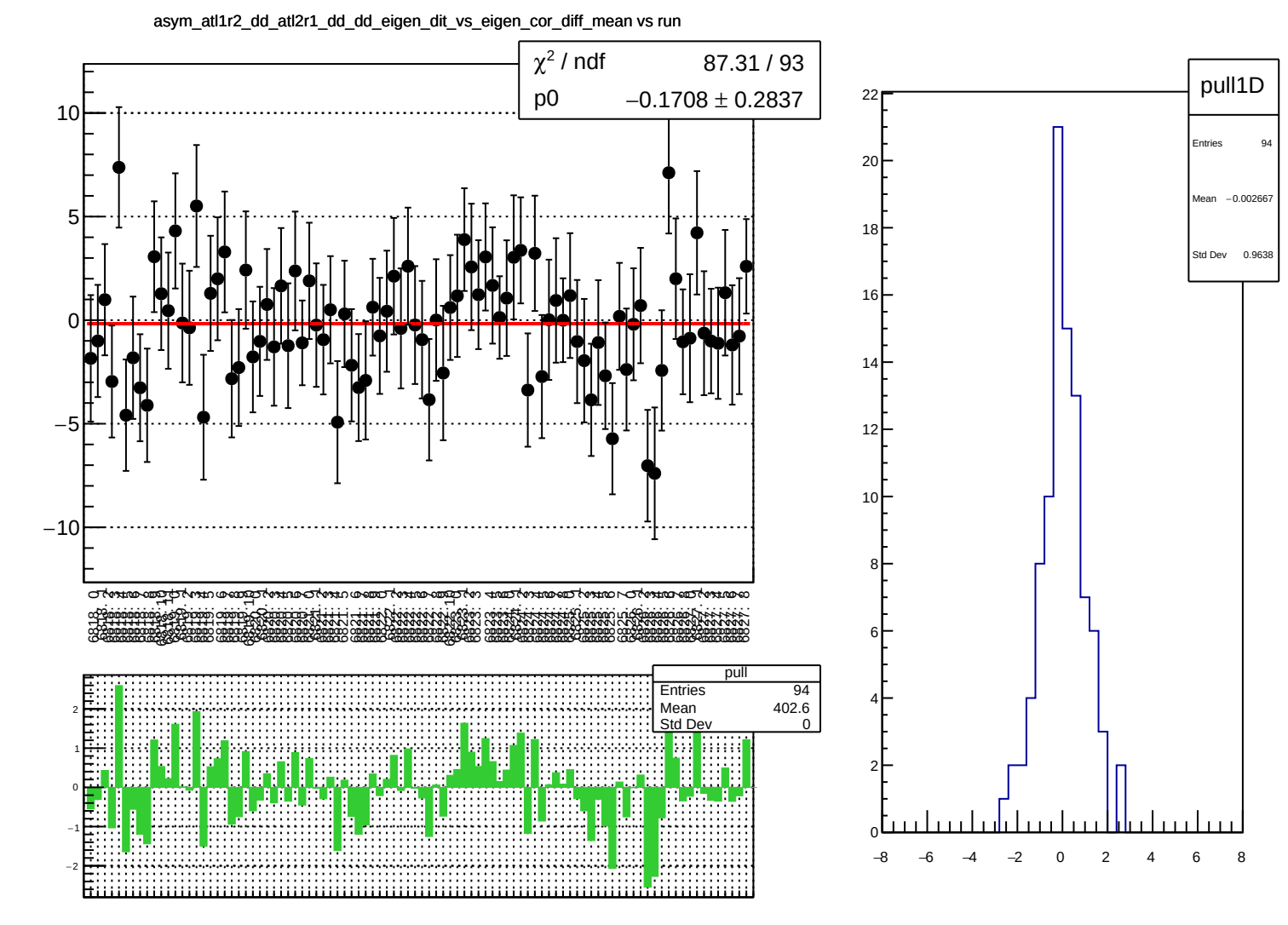

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 97.34 / 93
p0 4.281e−06 ± 4.674e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −989.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.002498
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

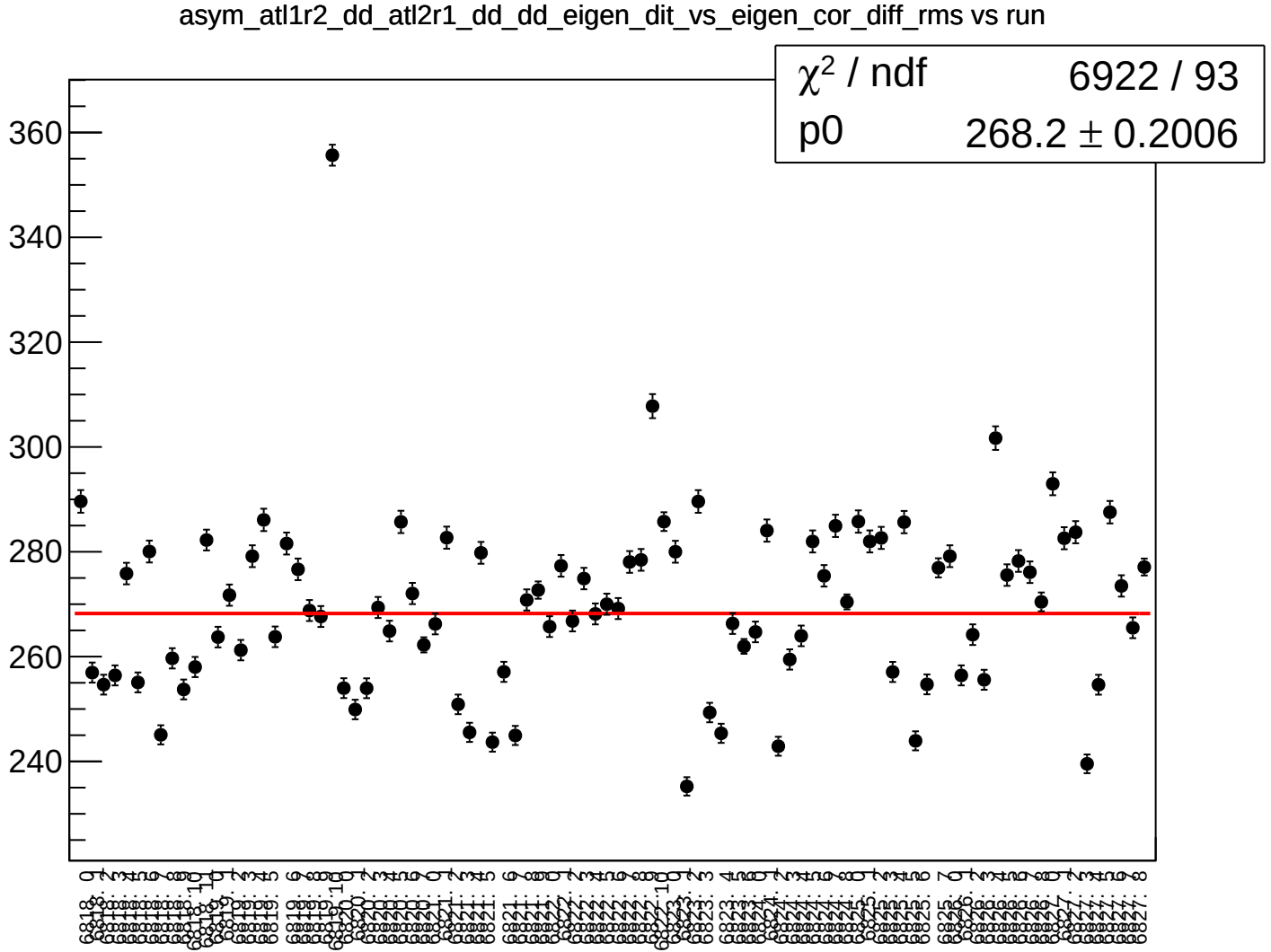

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6011 / 93
p0 0.004421 ± 3.305e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004

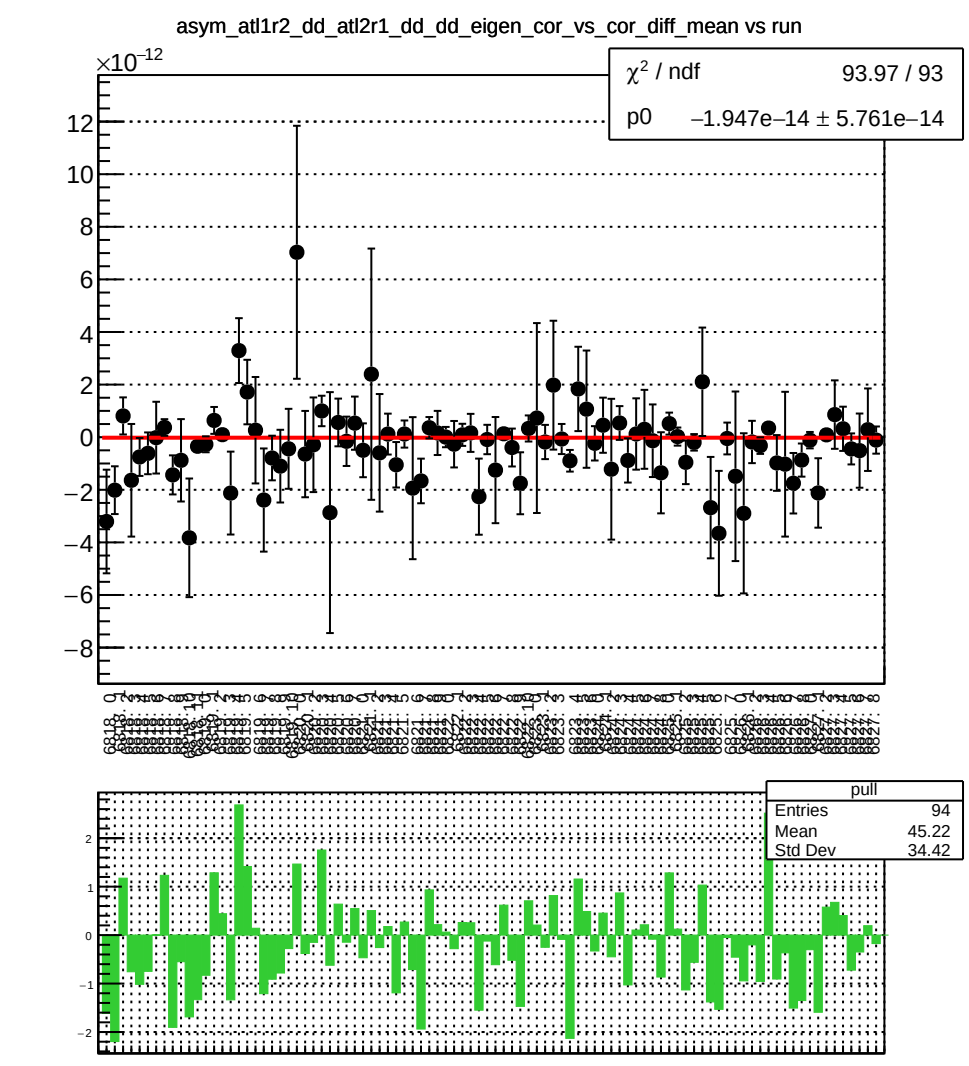

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0

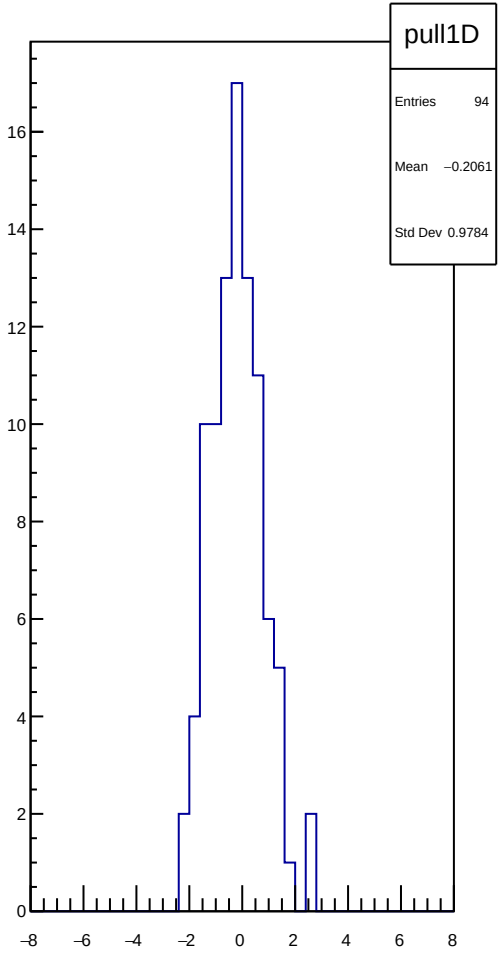

pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

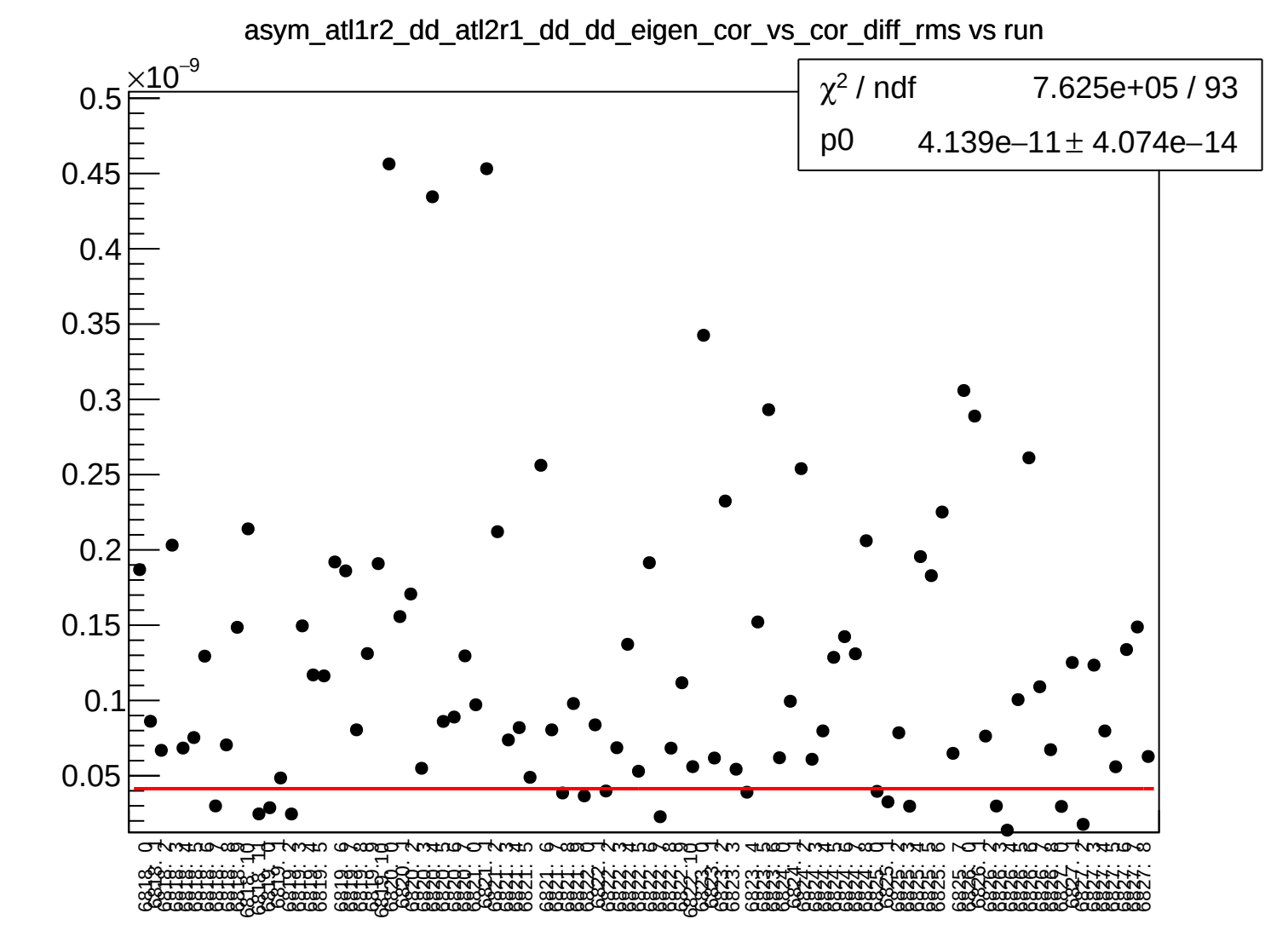

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

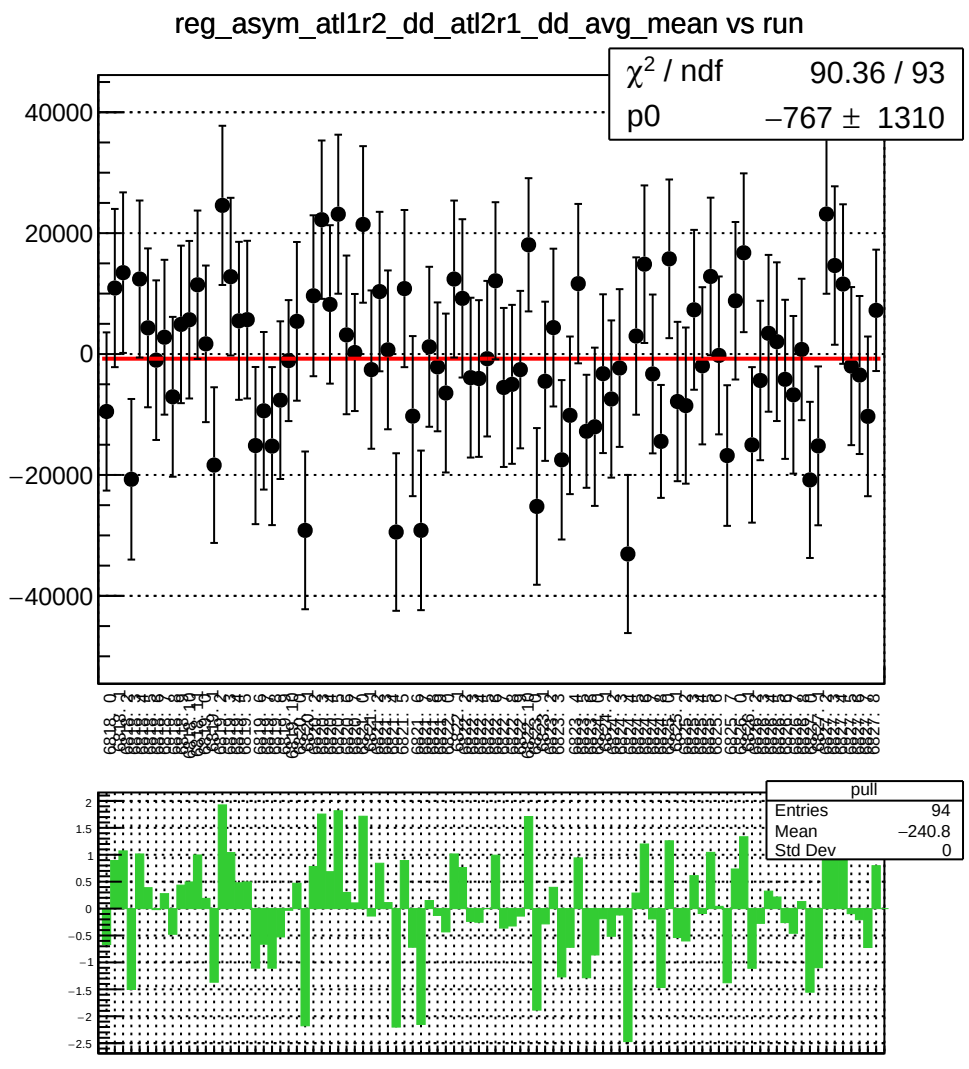

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.31 / 93
p0 −0.1708 ± 0.2837
pull
Entries 94
Mean 402.6
Std Dev 0
pull1D
Entries 94
Mean −0.002667
Std Dev 0.9638

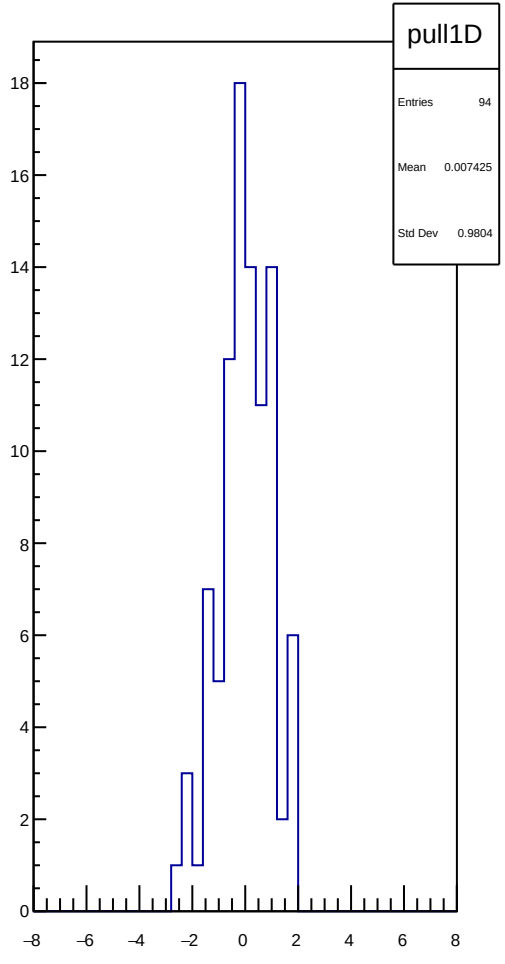

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6922 / 93
p0 268.2 ± 0.2006
360
340
320
300
280
260
240

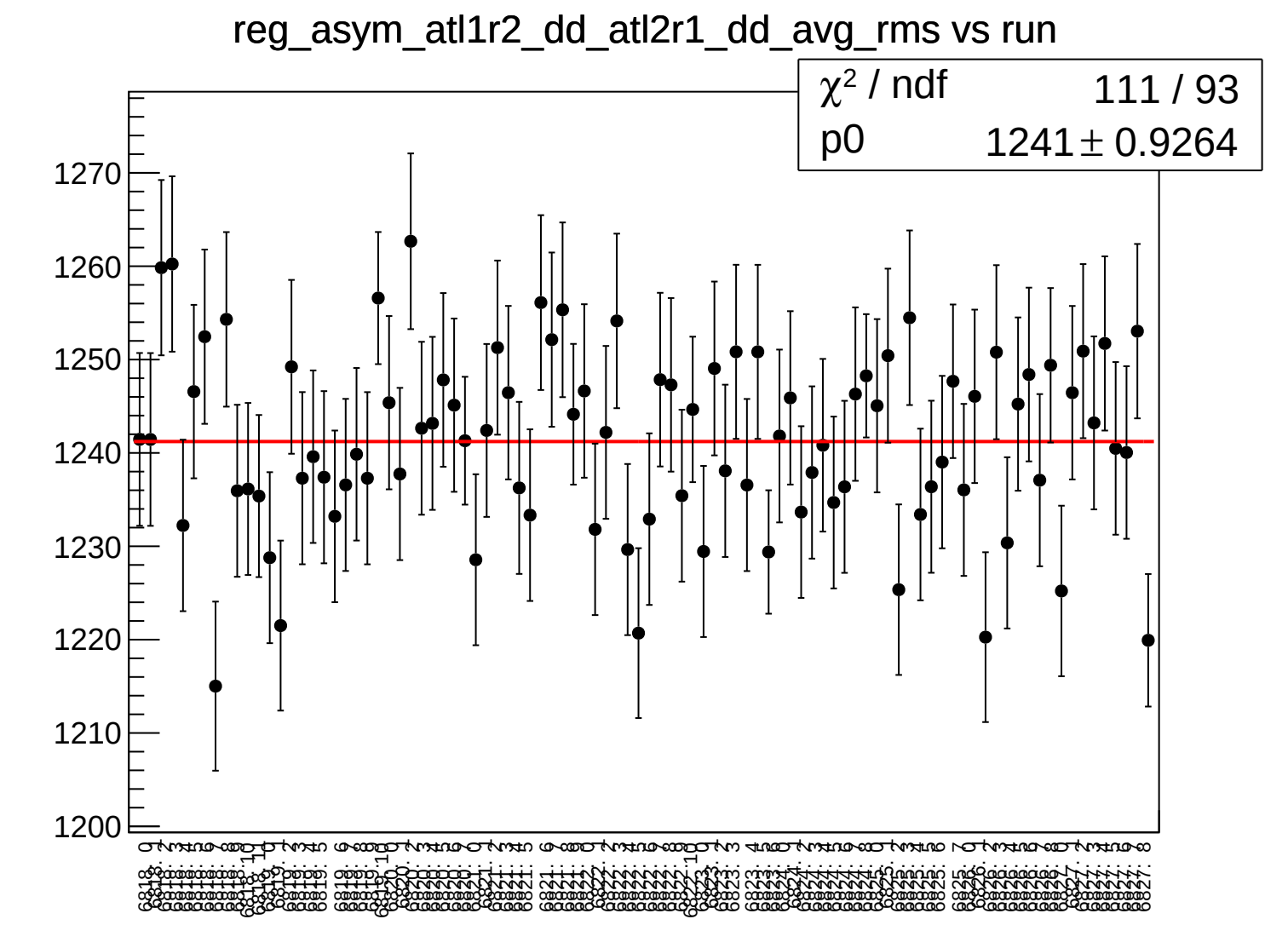

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.97 / 93
p0 −1.947e−14 ± 5.761e−14
pull
Entries 94
Mean 45.22
Std Dev 34.42

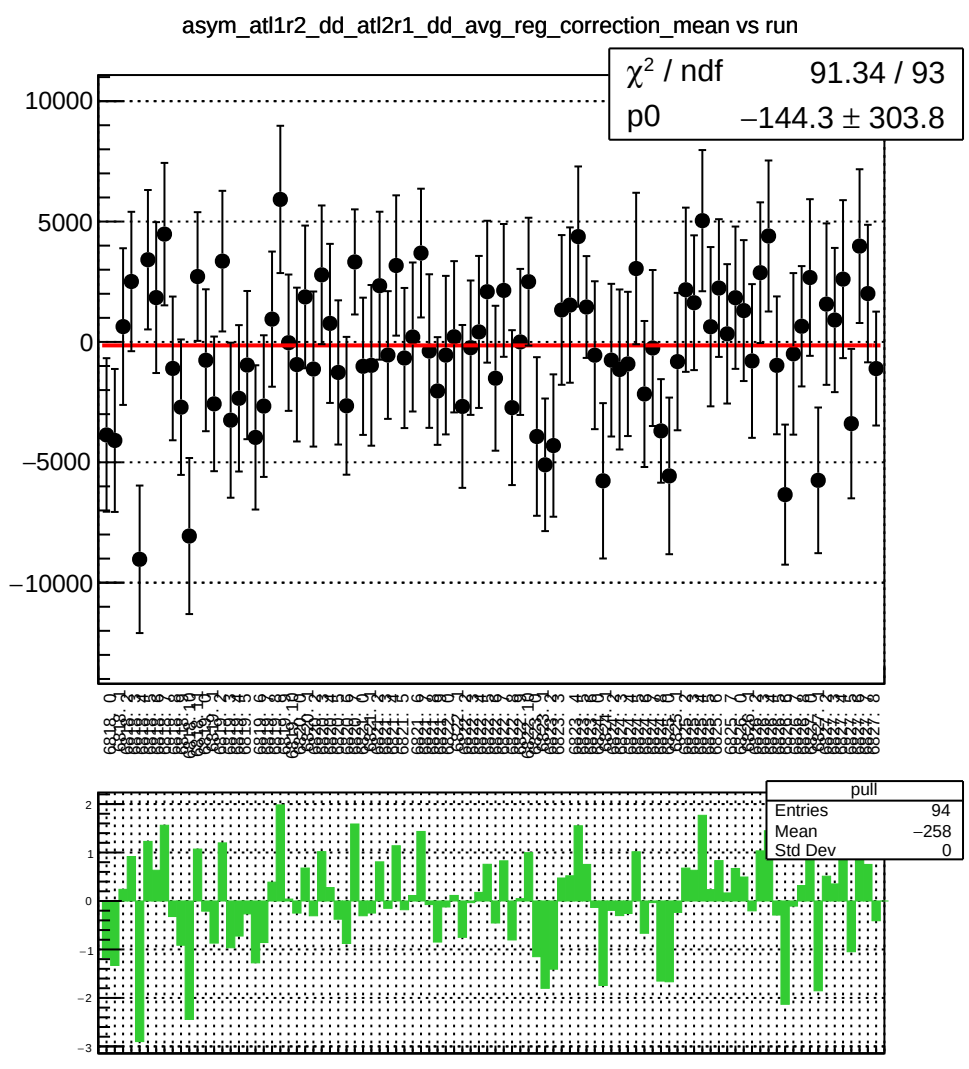

pull1D
Entries 94
Mean −0.2061
Std Dev 0.9784

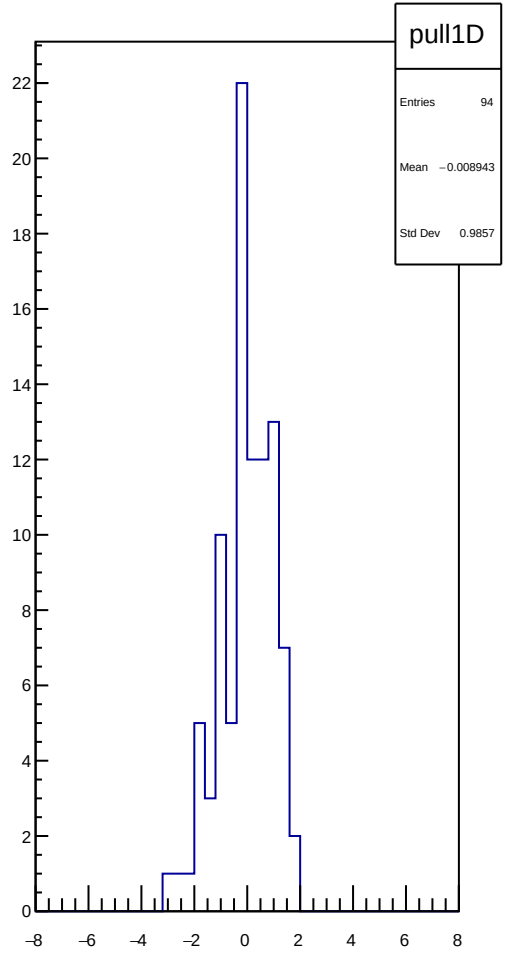

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.625e+05 / 93
p0 4.139e−11 ± 4.074e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

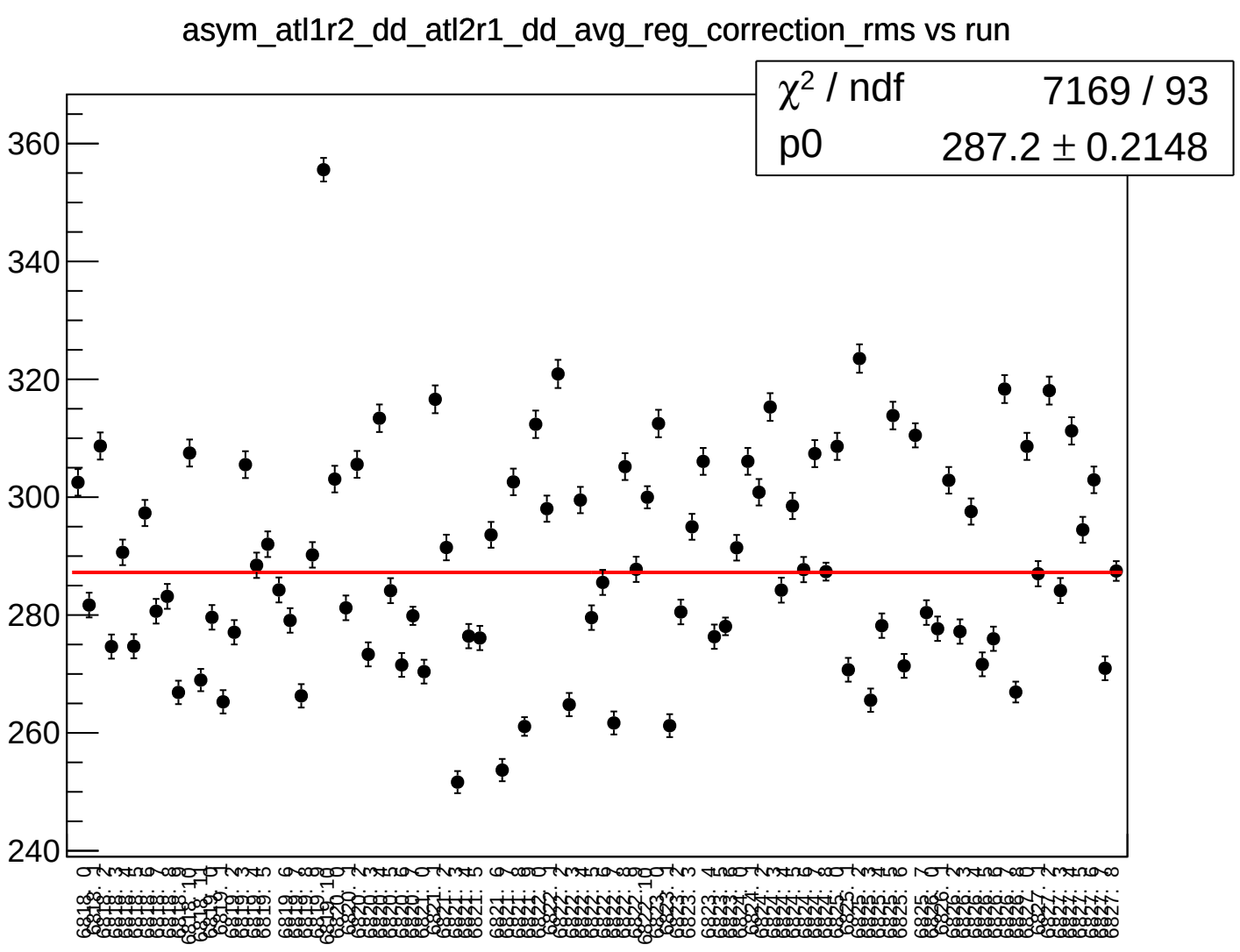

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

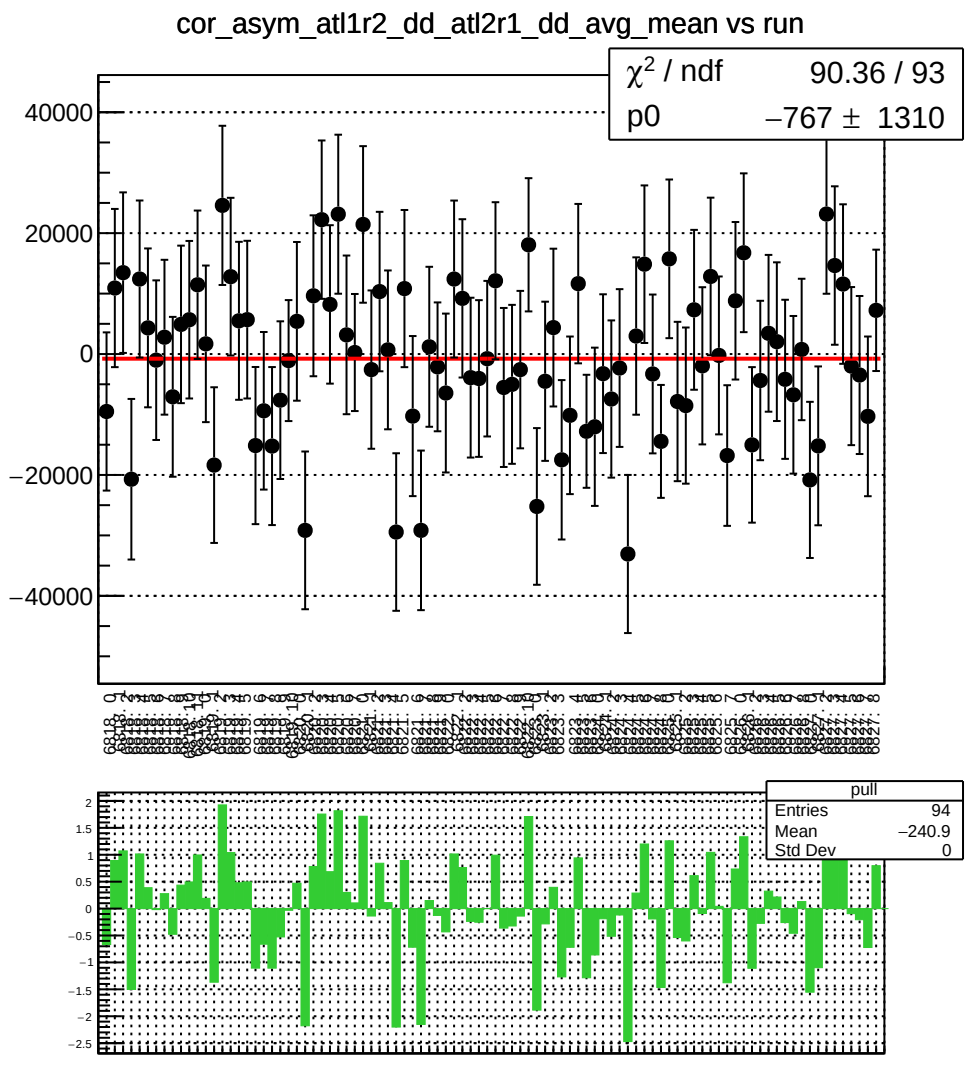

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

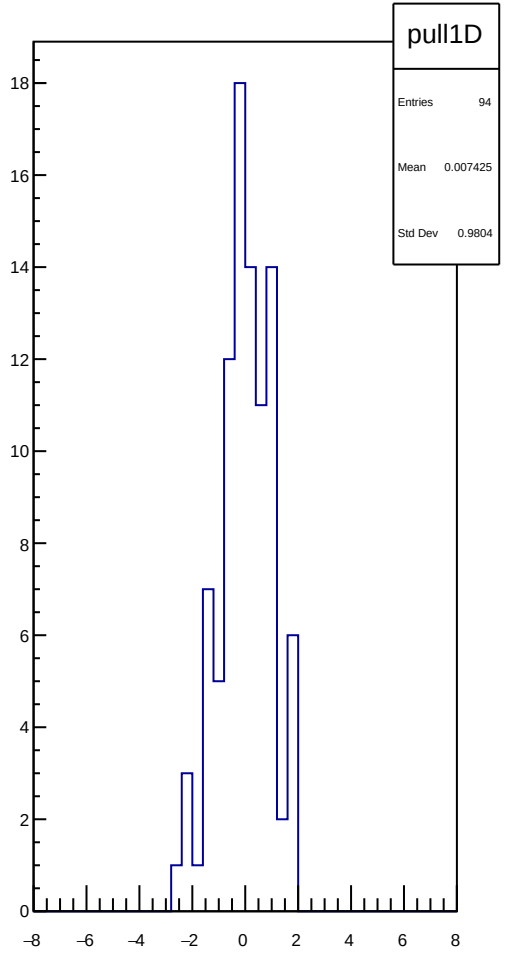

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200

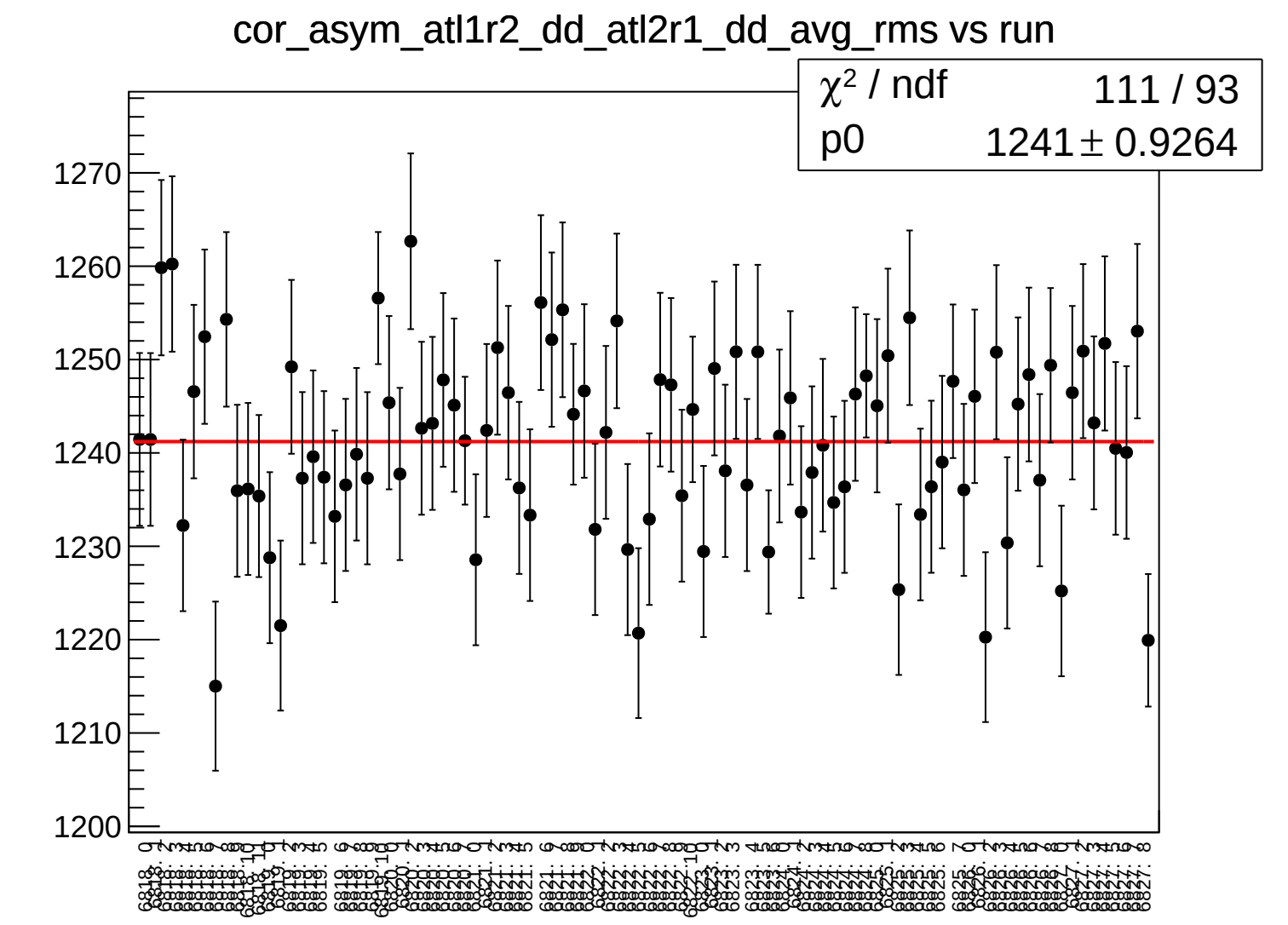

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 91.34 / 93
p0 −144.3 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −258
Std Dev 0
2
1
0
−1
−2
−3

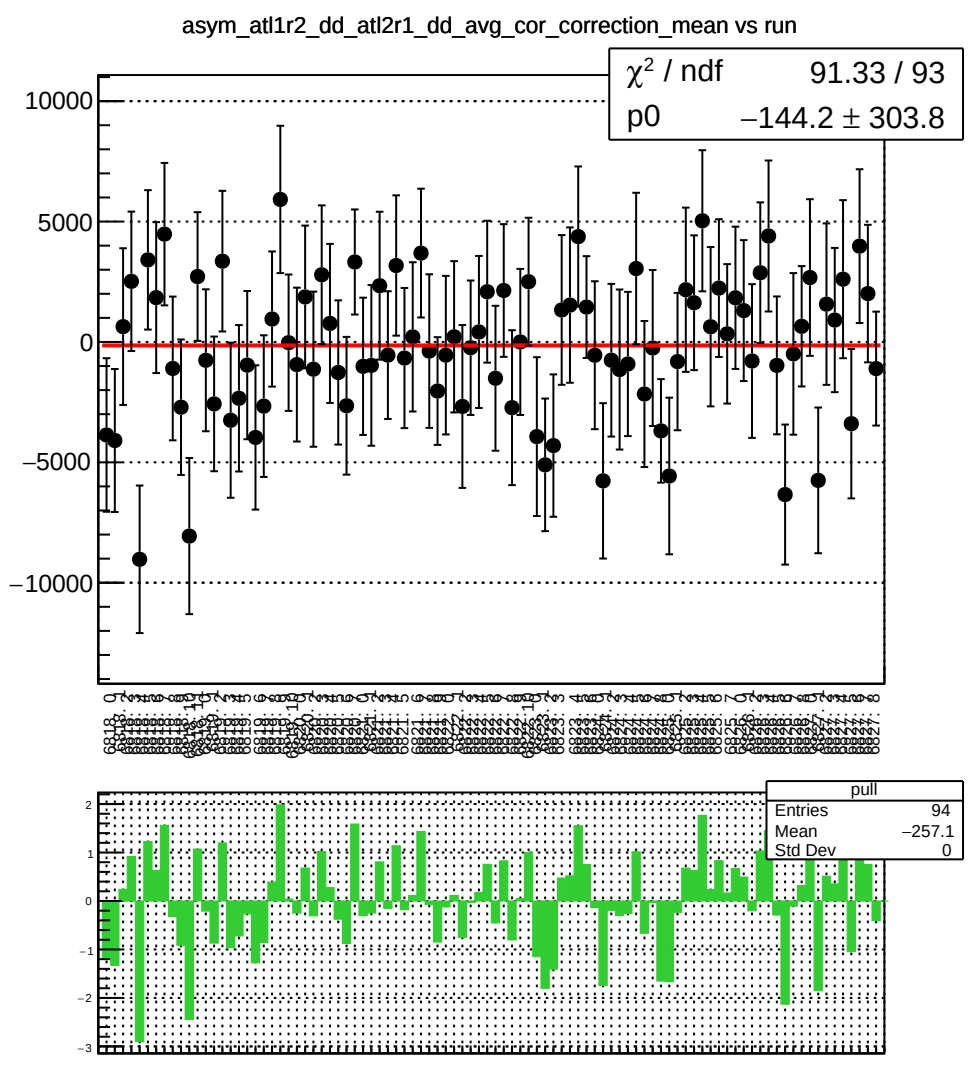

pull1D
Entries 94
Mean −0.008943
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

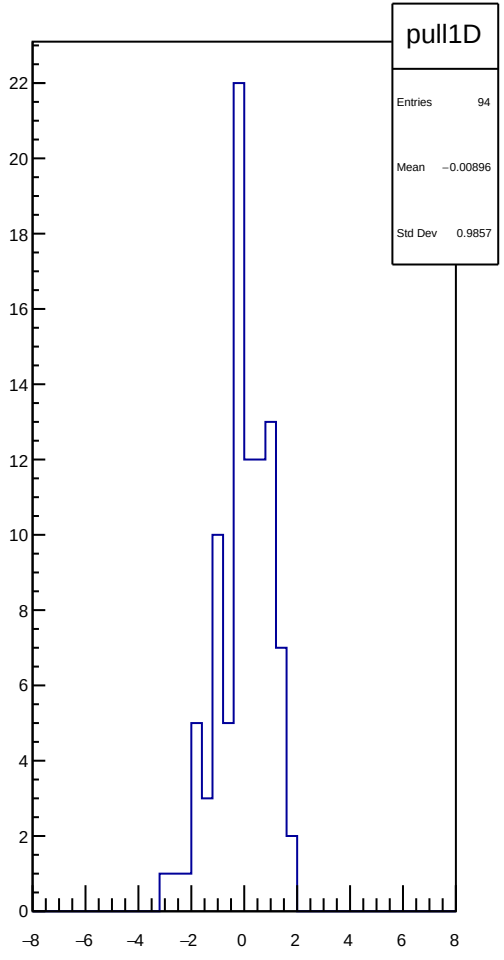

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7169 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240

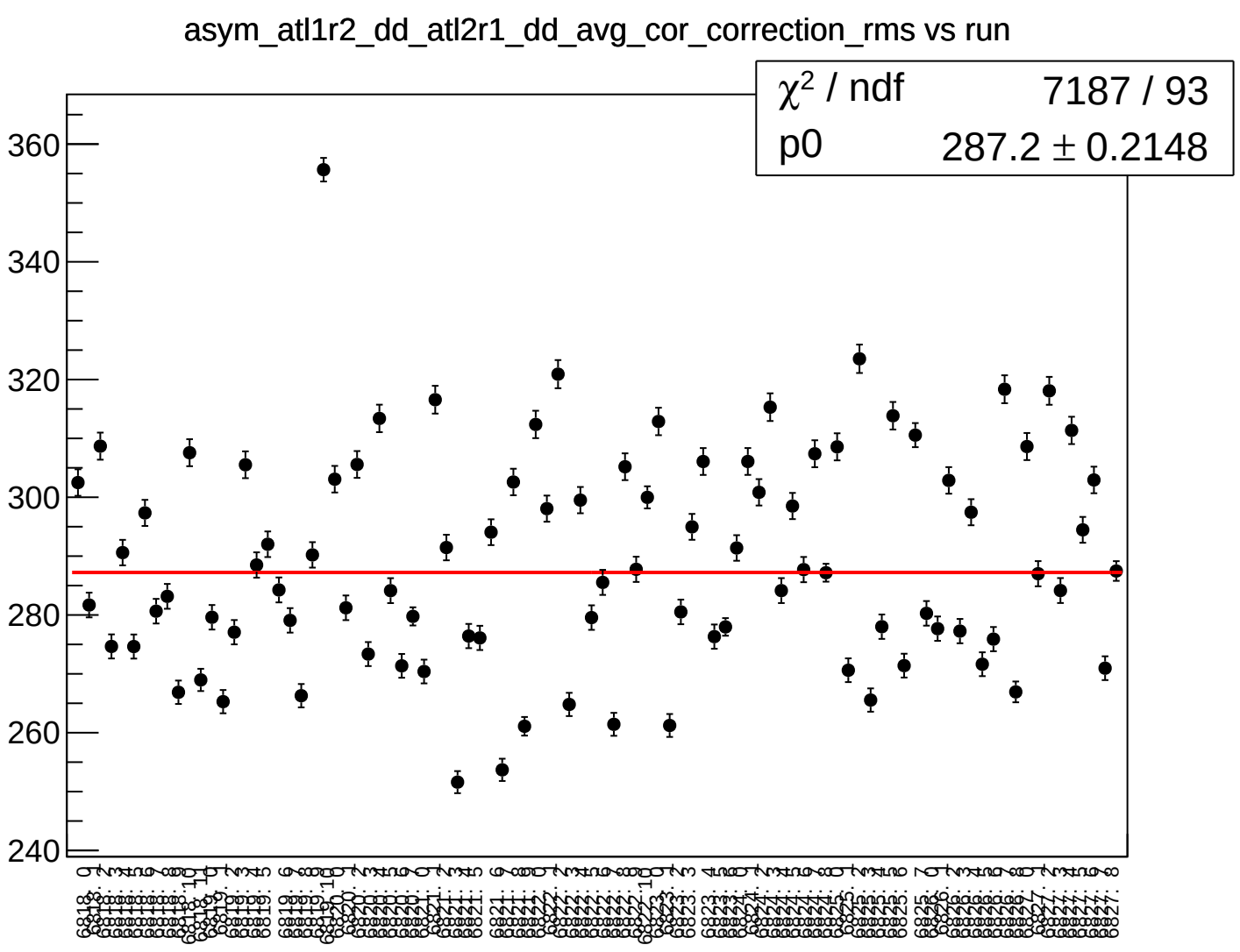

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

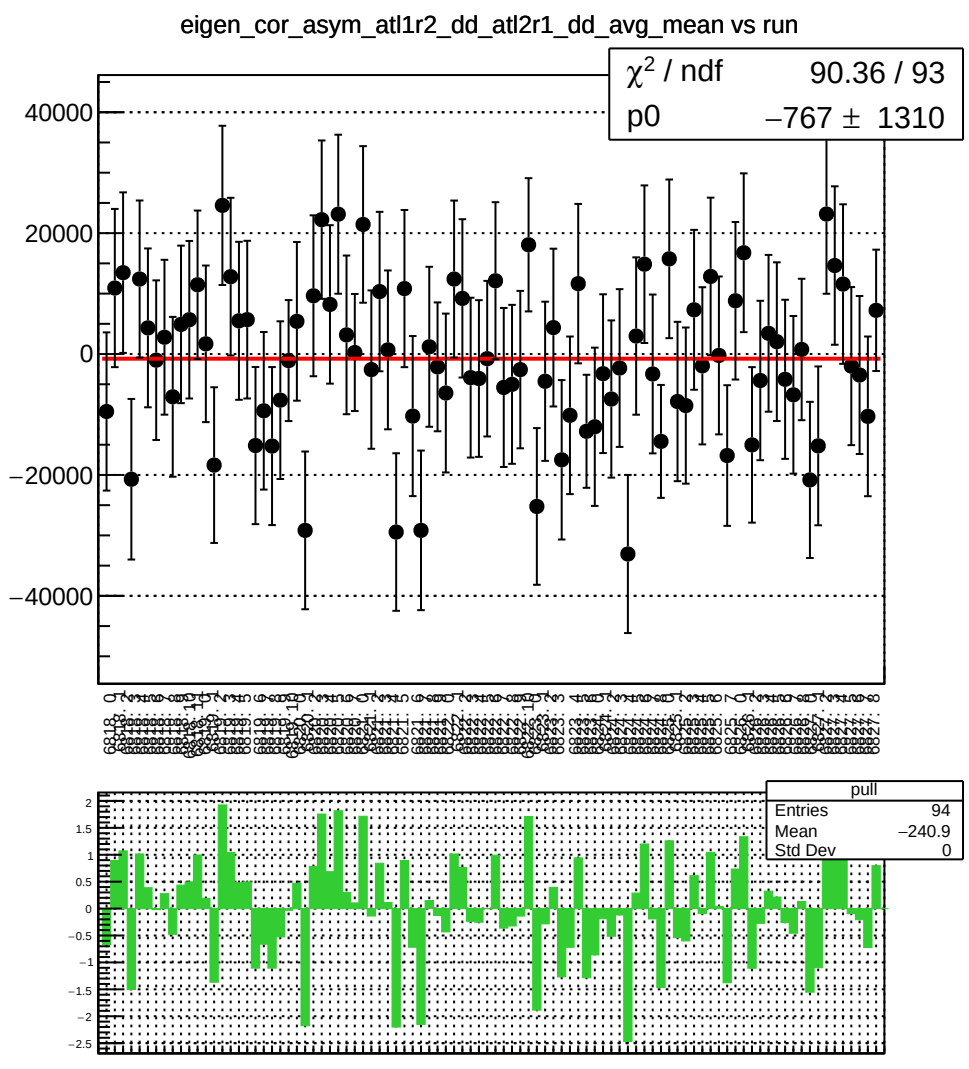

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

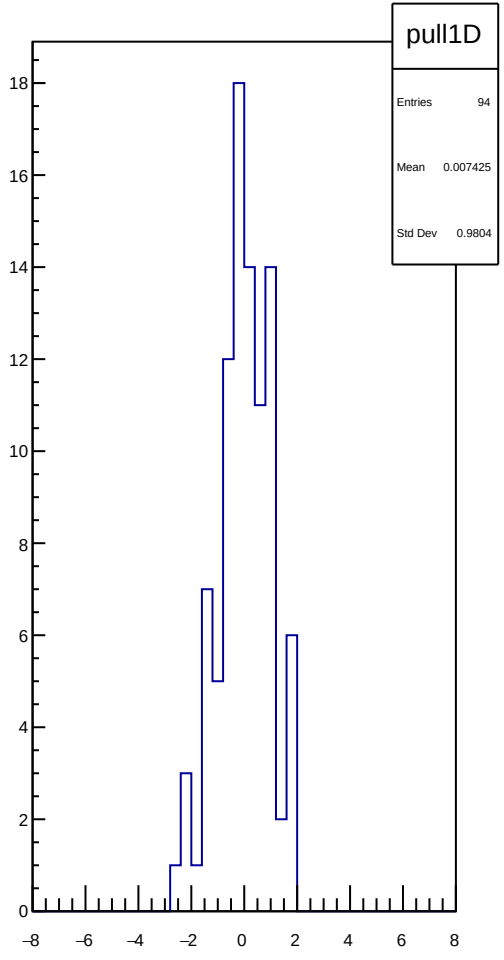

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200

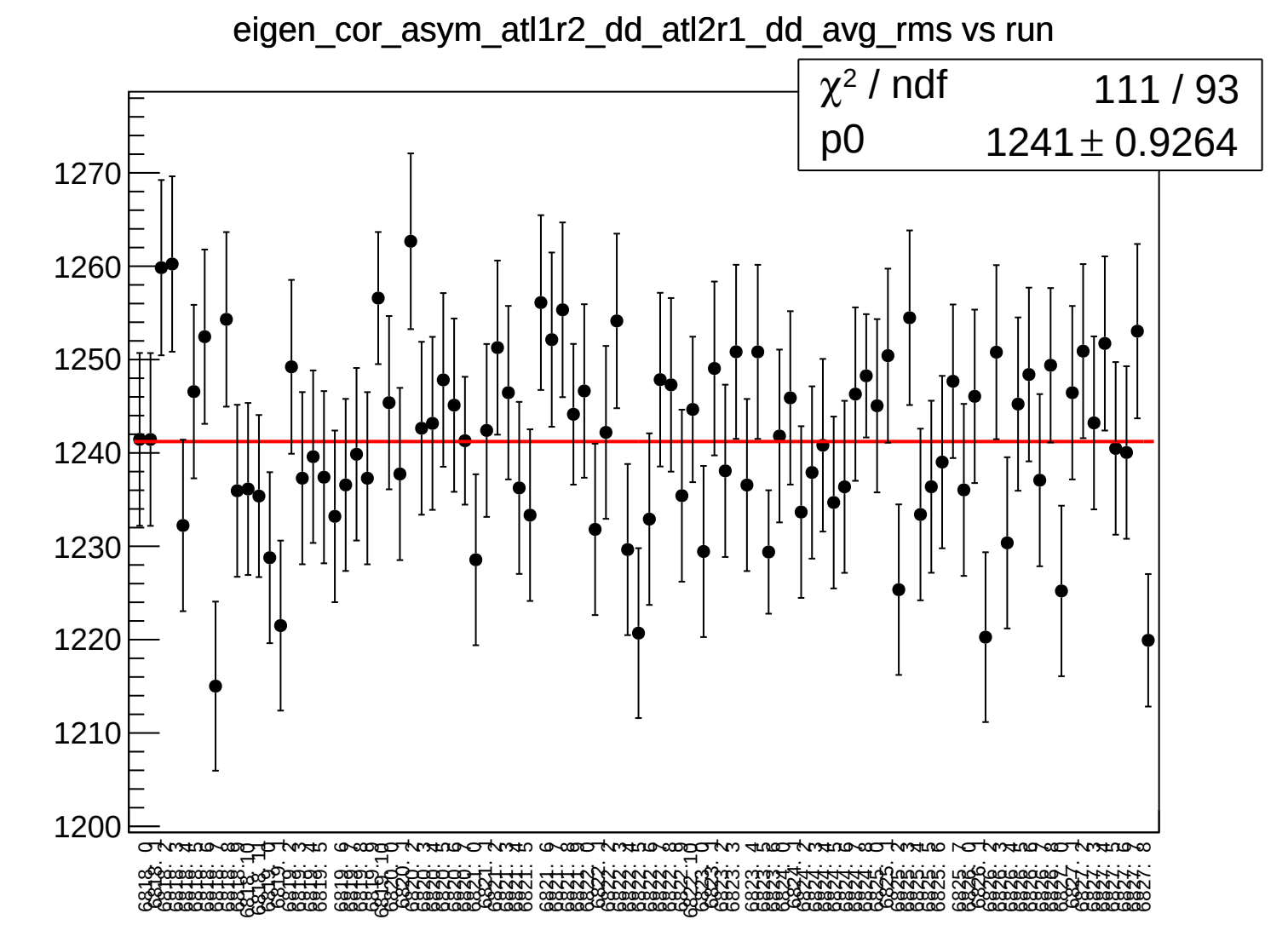

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 91.33 / 93
p0 −144.2 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −257.1
Std Dev 0
2
1
0
−1
−2
−3

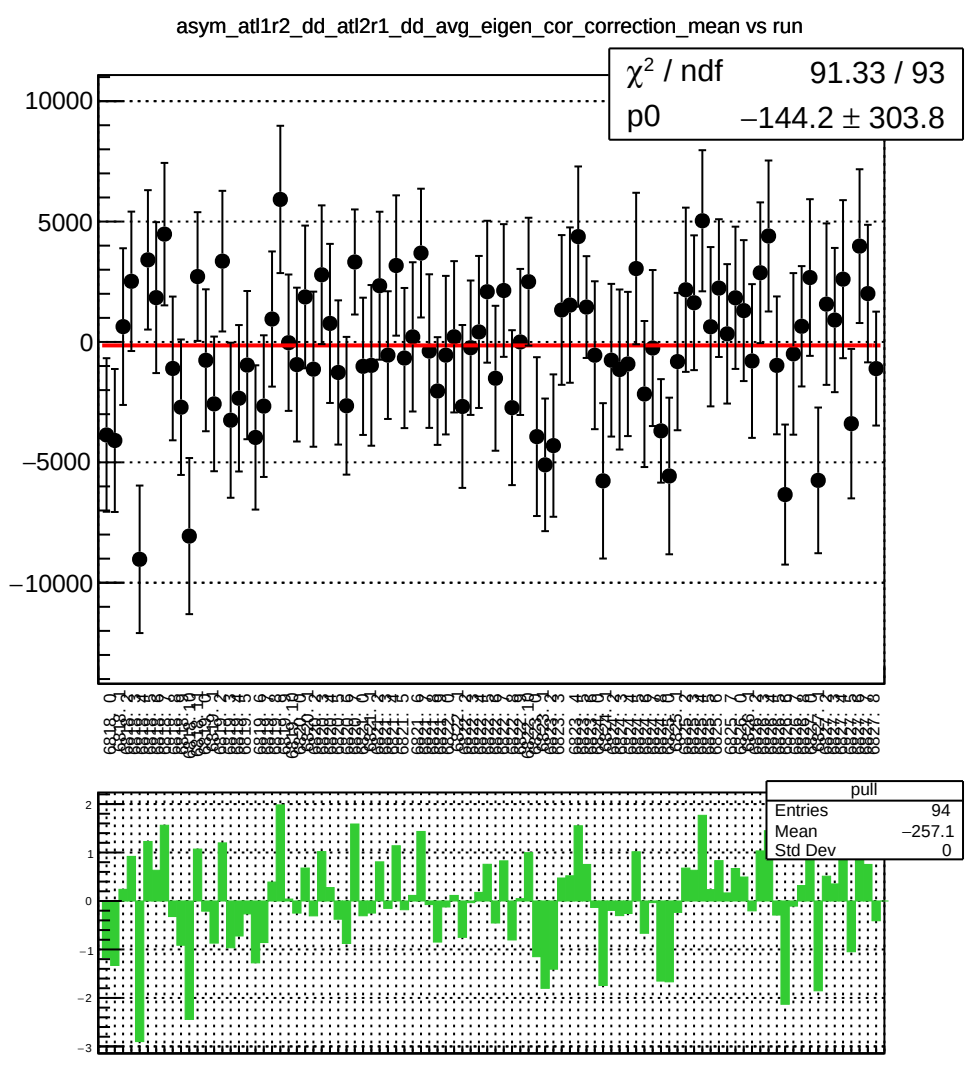

pull1D
Entries 94
Mean −0.00896
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

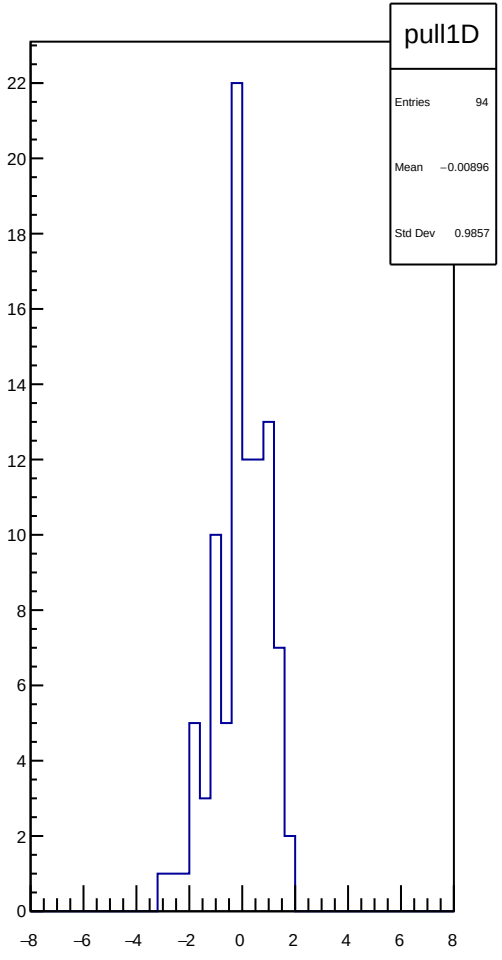

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7187 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240

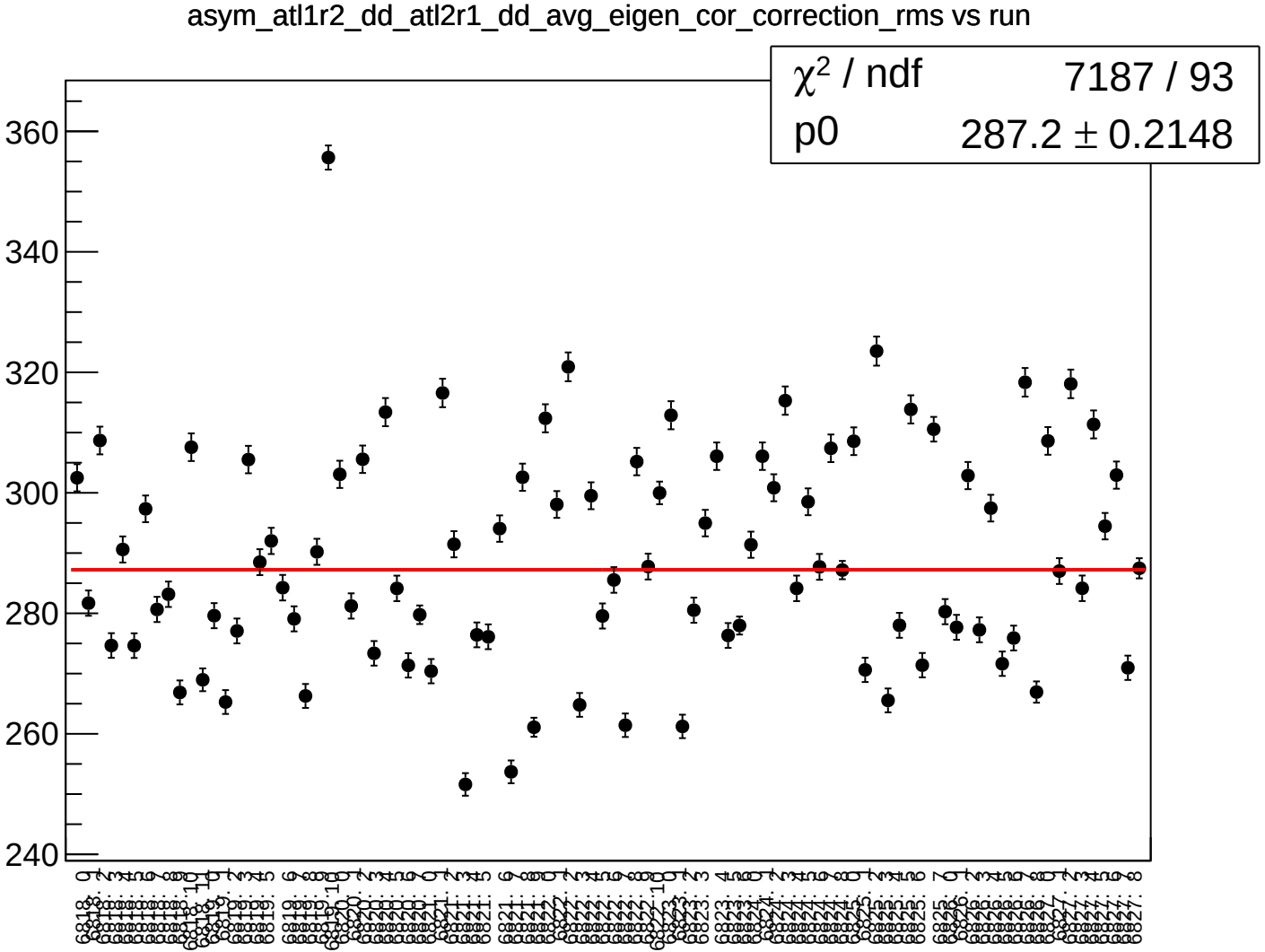

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.36 / 93
p0 −767 ± 1310
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

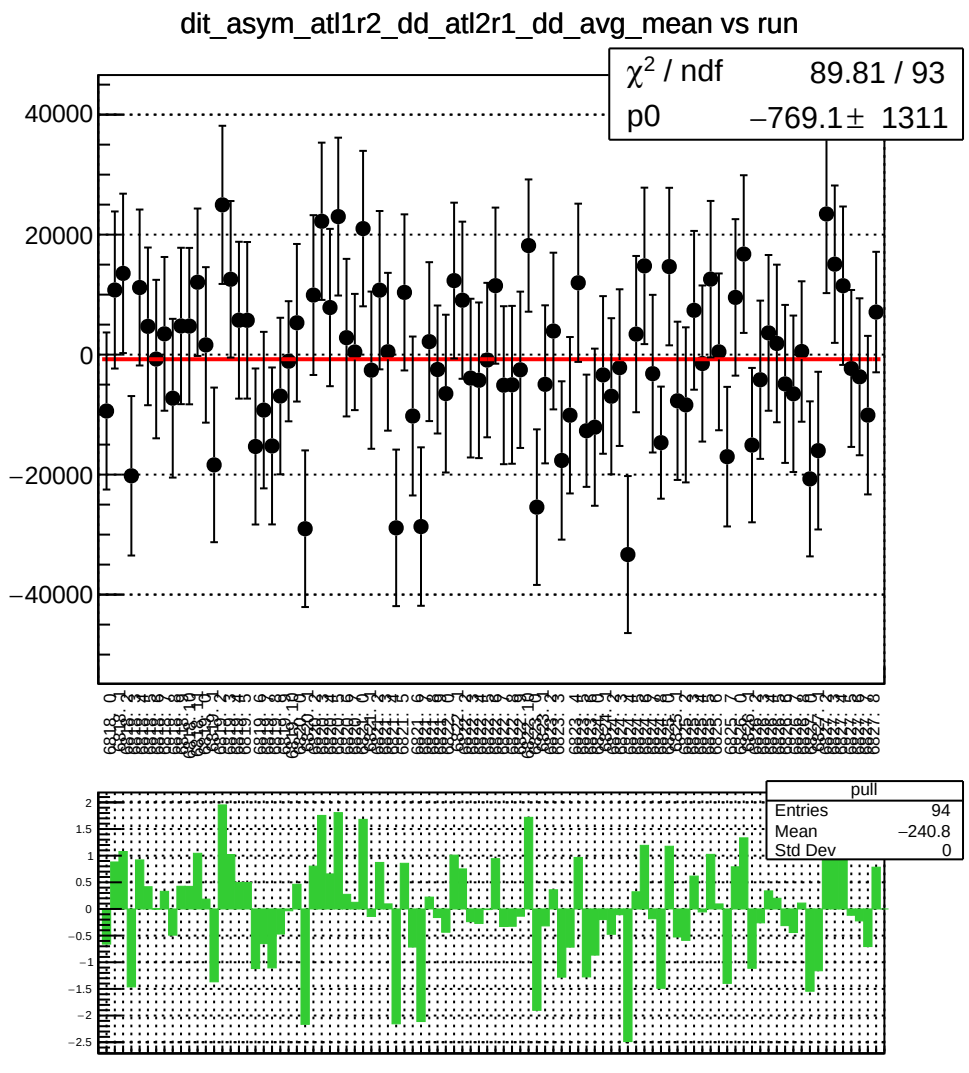

pull1D
Entries 94
Mean 0.007425
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

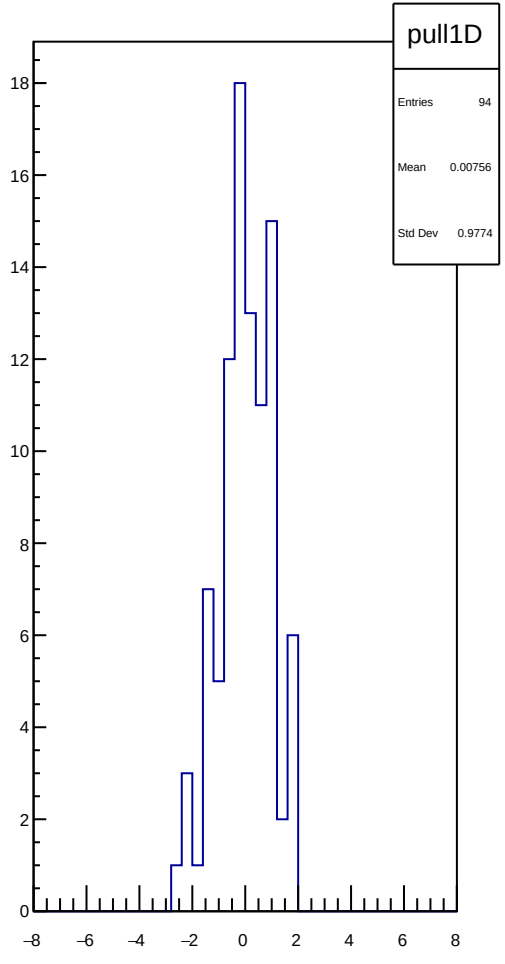

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111 / 93
p0 1241 ± 0.9264
1270
1260
1250
1240
1230
1220
1210
1200


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.33 / 93
p0 −144.2 ± 303.8
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −257.1
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 94
Mean −0.00896
Std Dev 0.9857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7187 / 93
p0 287.2 ± 0.2148
360
340
320
300
280
260
240


dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.81 / 93
p0 −769.1± 1311
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 94
Mean 0.00756
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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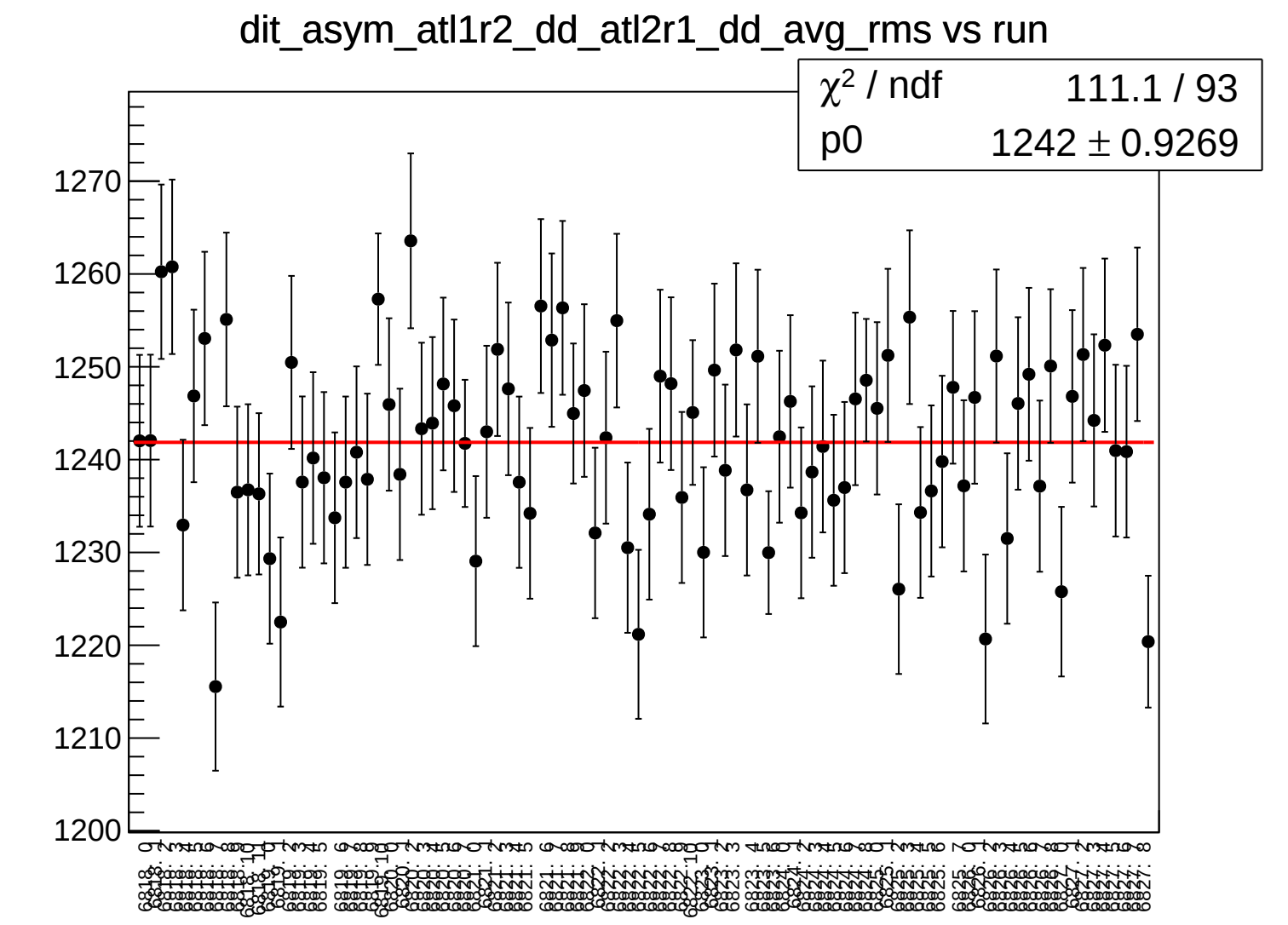
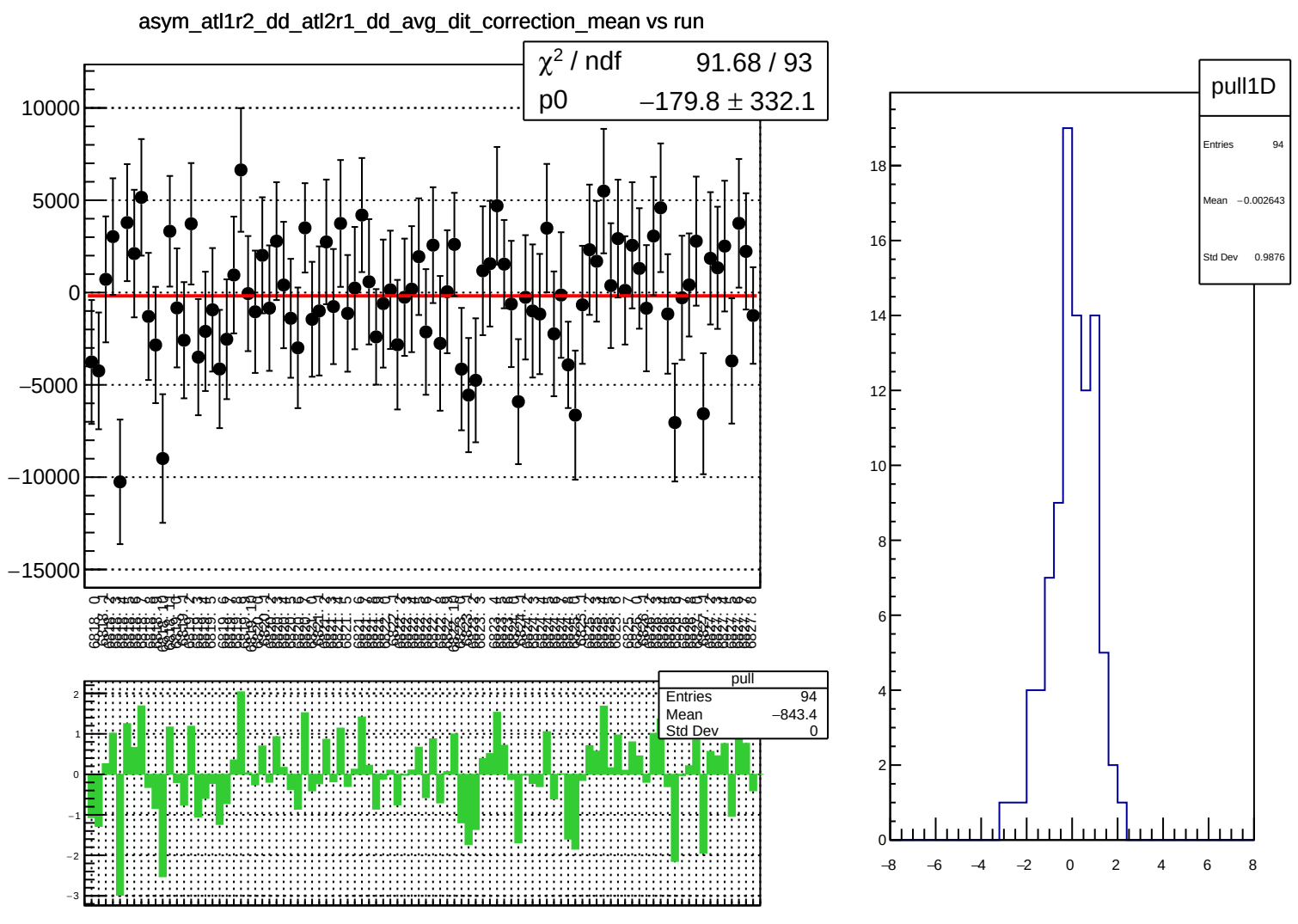
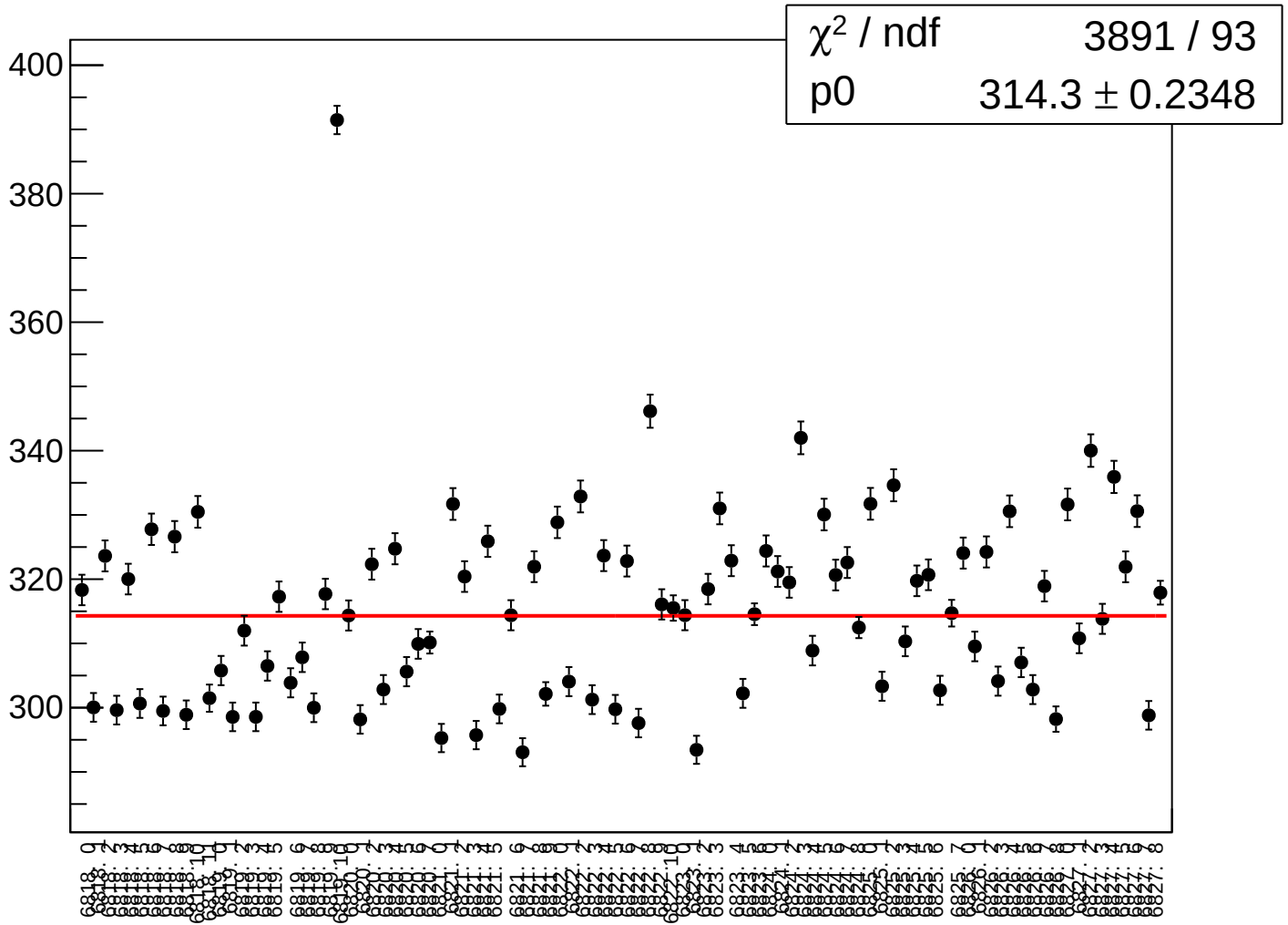
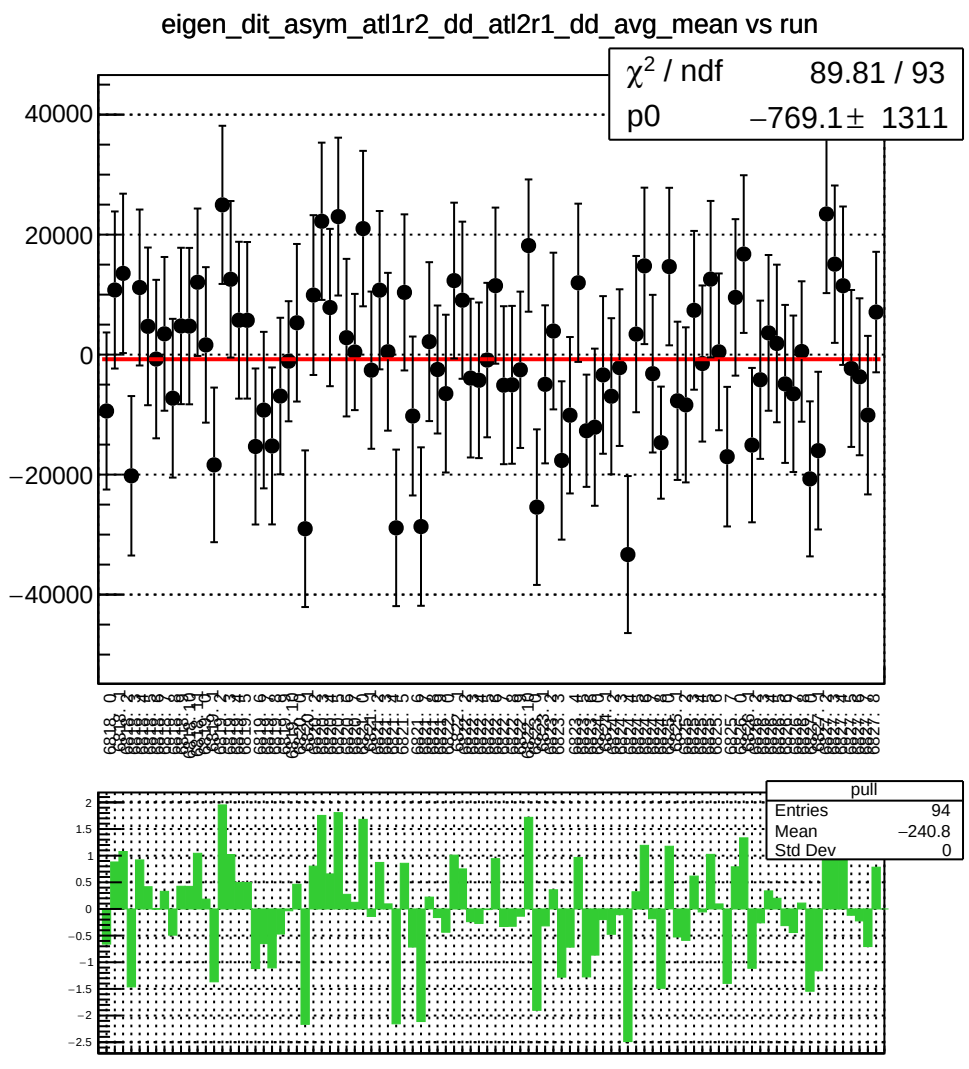
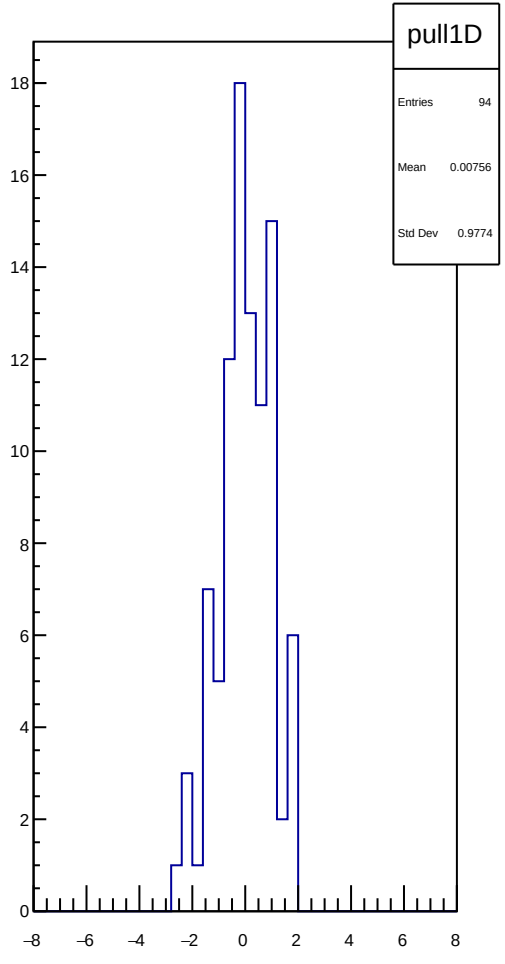
0
2
4
6
8

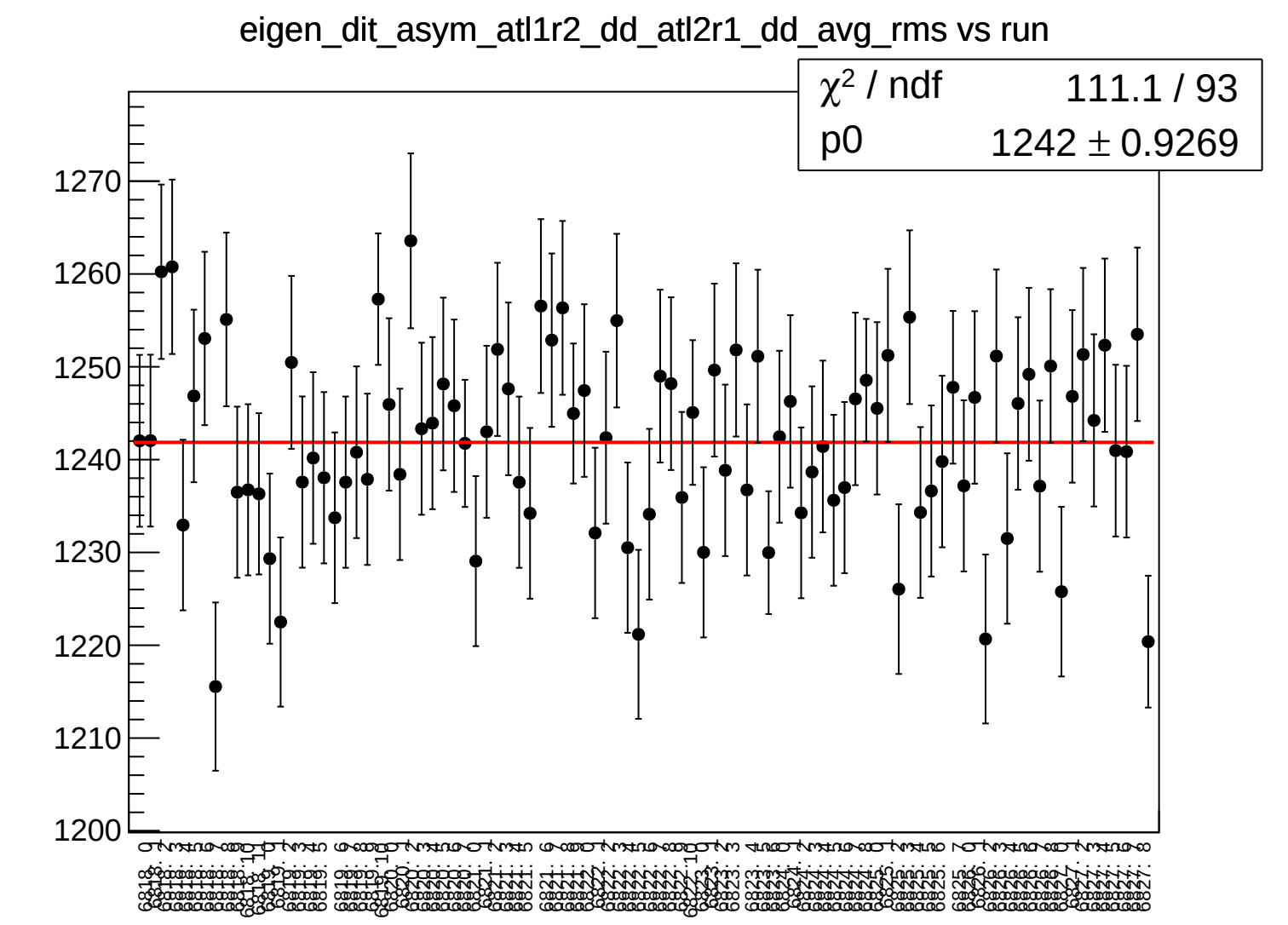

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.1 / 93
p0 1242 ± 0.9269
1270
1260
1250
1240
1230
1220
1210
1200

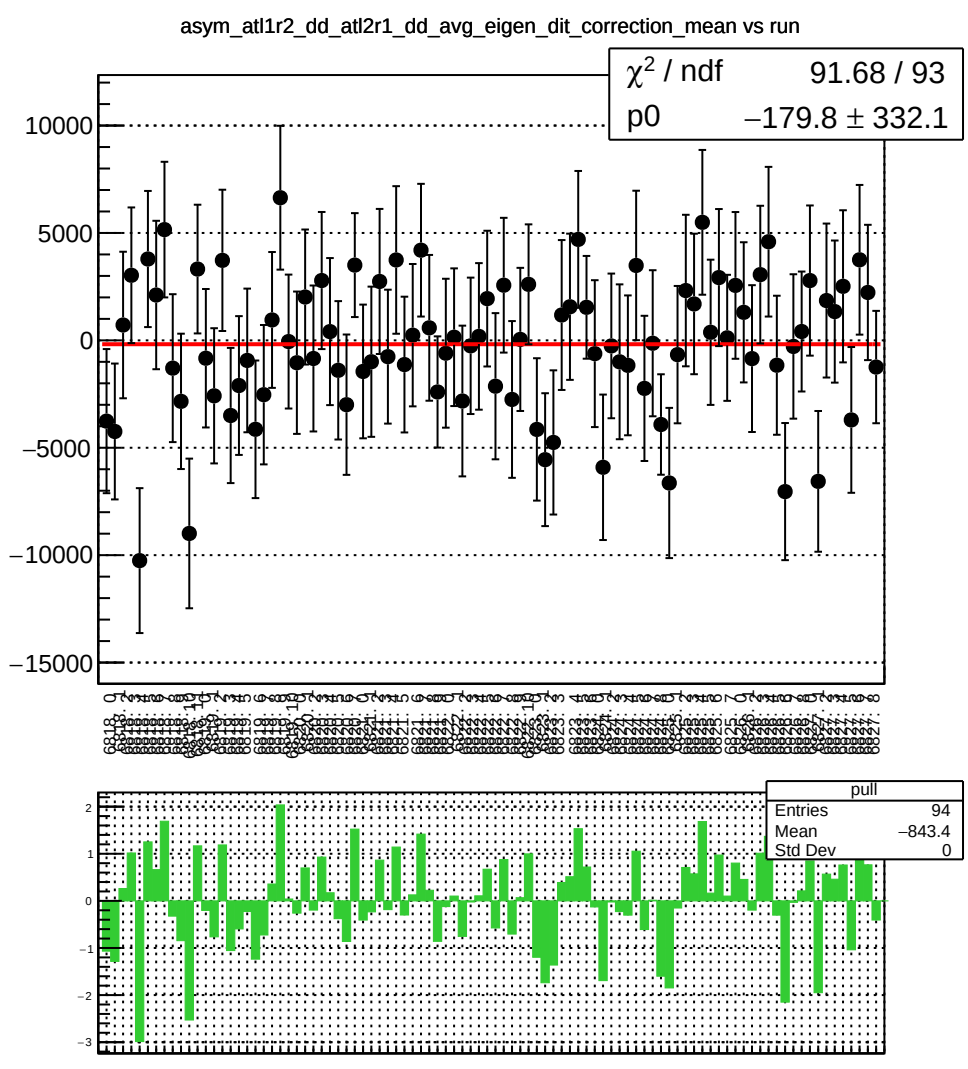

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 91.68 / 93
p0 −179.8 ± 332.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −843.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002643
Std Dev 0.9876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

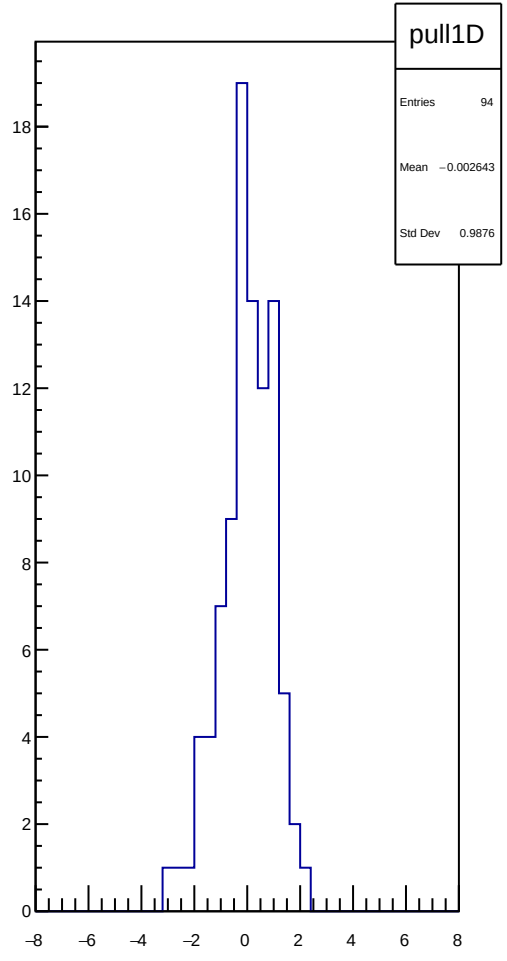

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 3891 / 93
p0 314.3 ± 0.2348
400
380
360
340
320
300

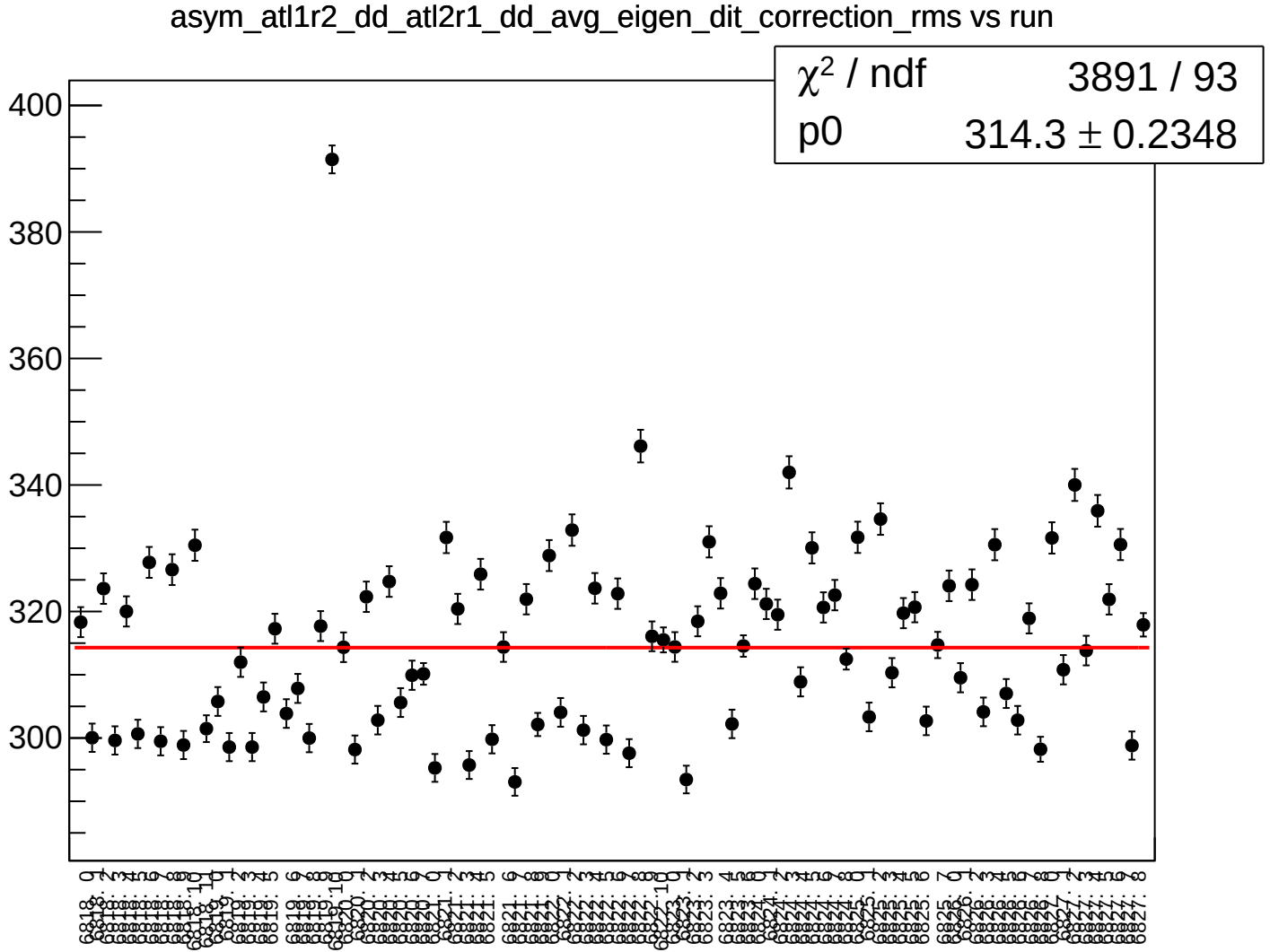

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.81 / 93
p0 −769.1± 1311
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −240.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

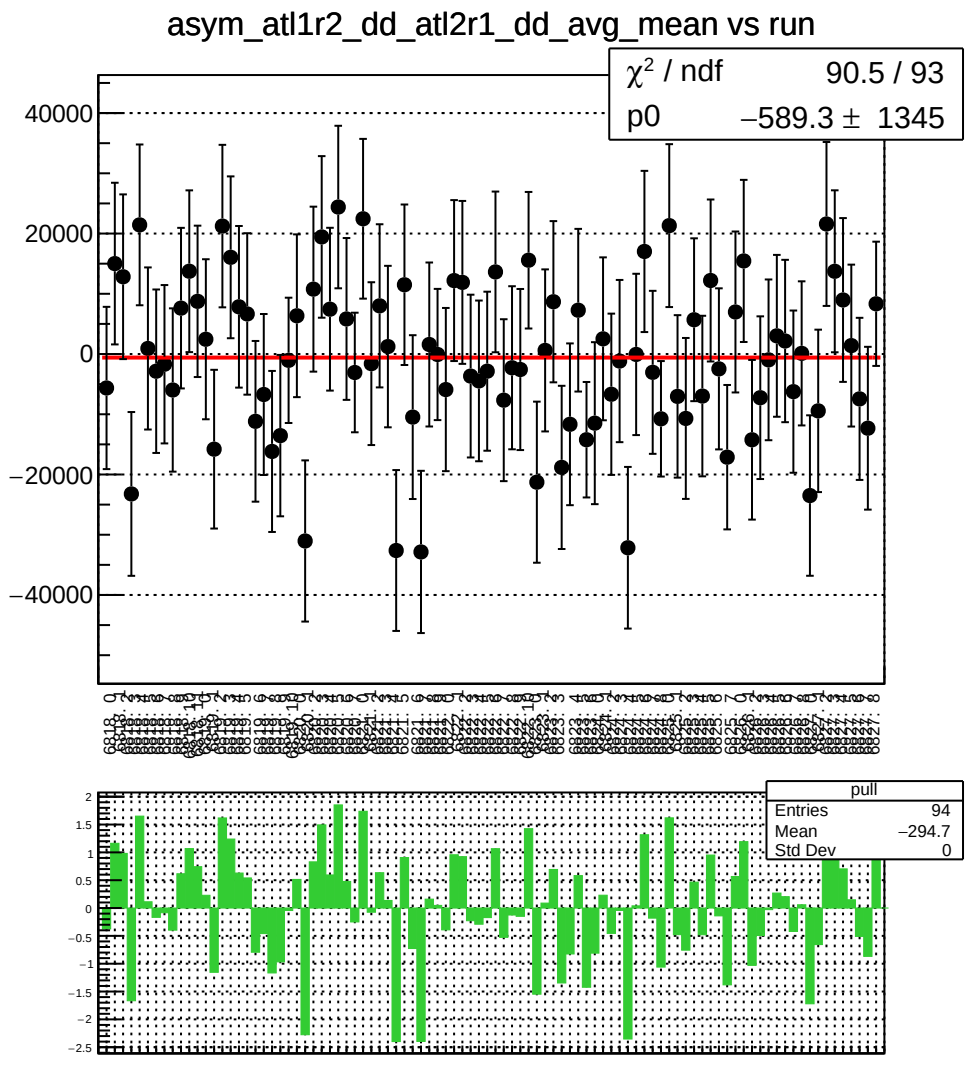

pull1D
Entries 94
Mean 0.00756
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

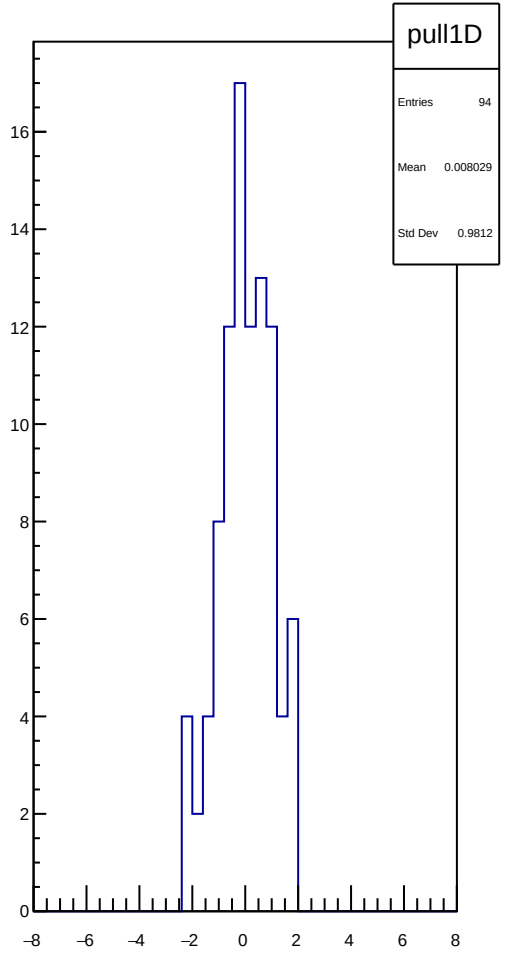

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 111.1 / 93
p0 1242 ± 0.9269
1270
1260
1250
1240
1230
1220
1210
1200

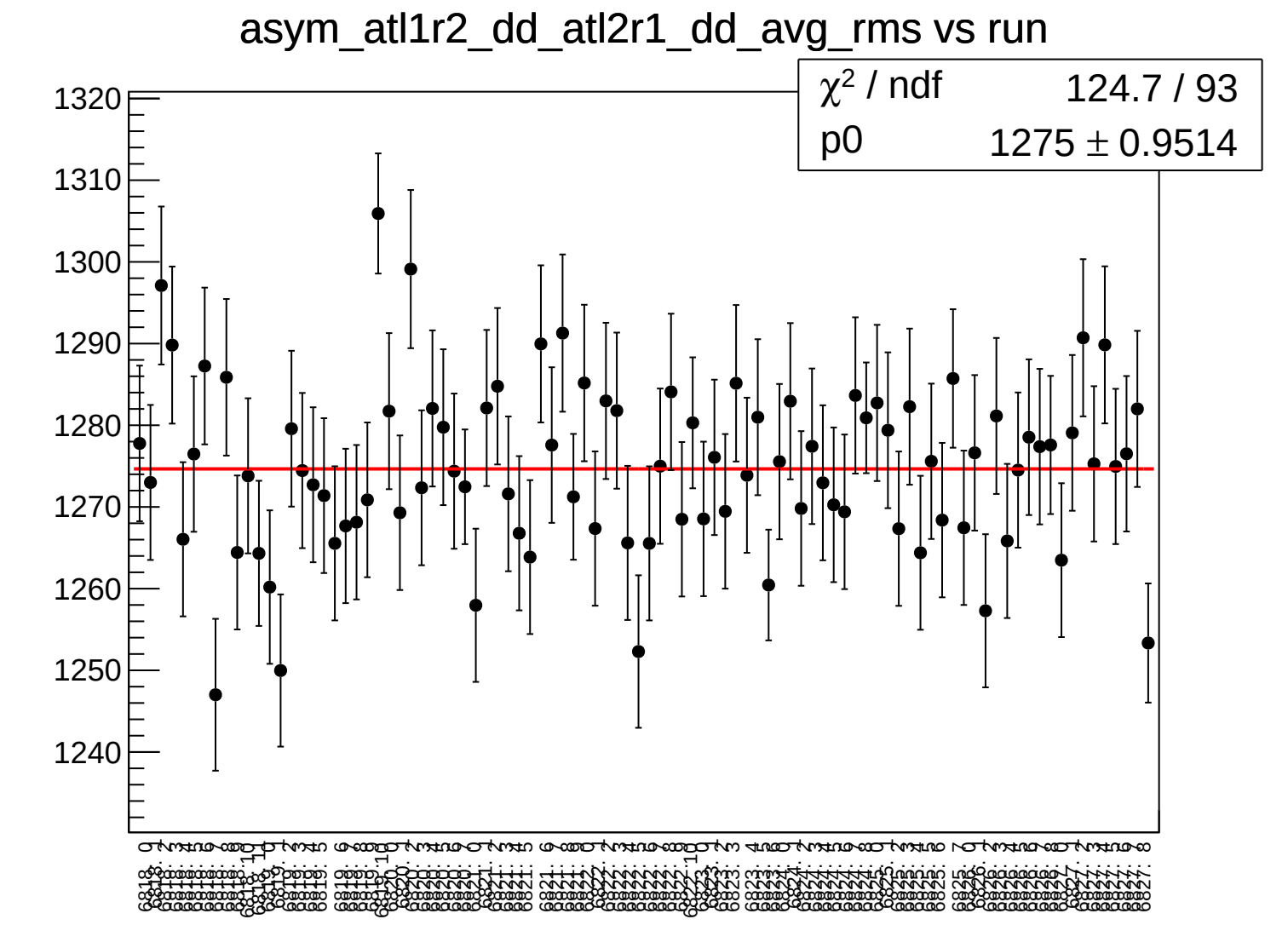

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.68 / 93
p0 −179.8 ± 332.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −843.4
Std Dev 0
2
1
0
−1
−2
−3

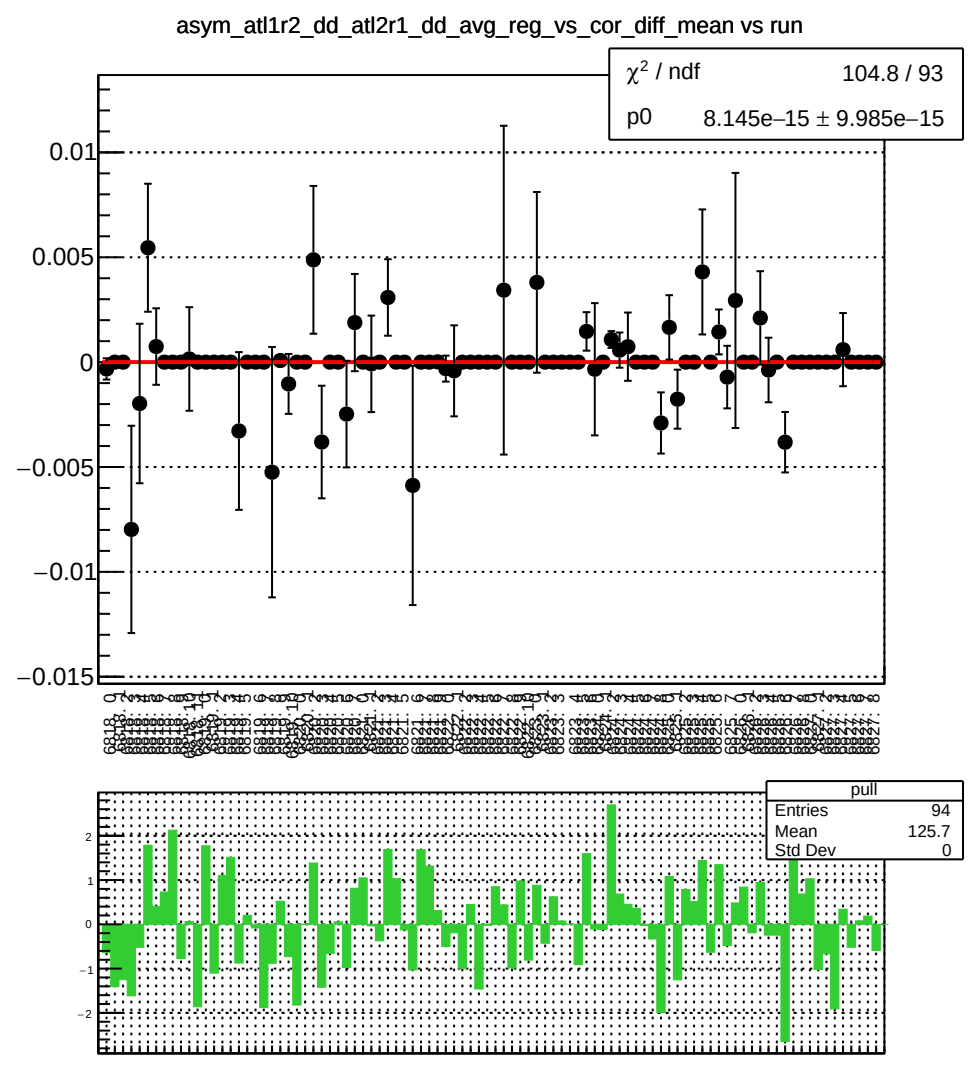

pull1D
Entries 94
Mean −0.002643
Std Dev 0.9876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

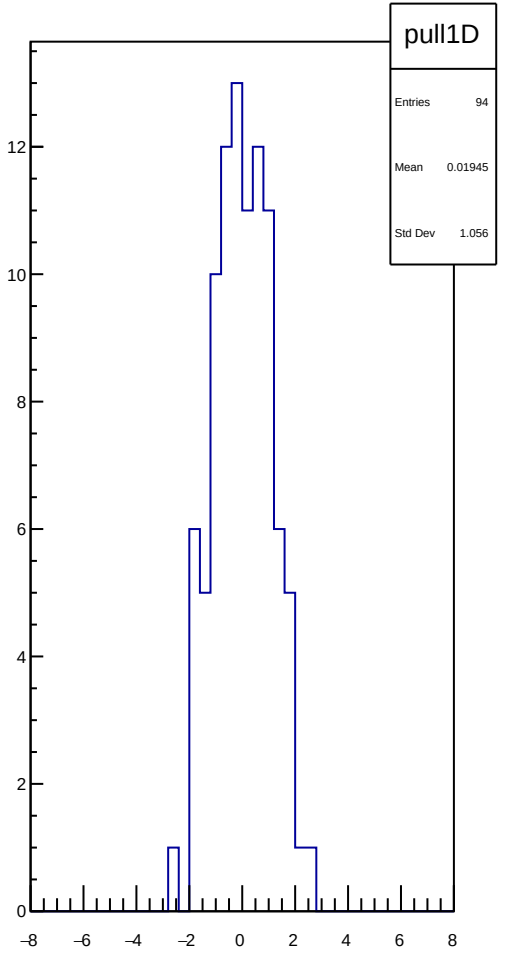

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3891 / 93
p0 314.3 ± 0.2348
400
380
360
340
320
300

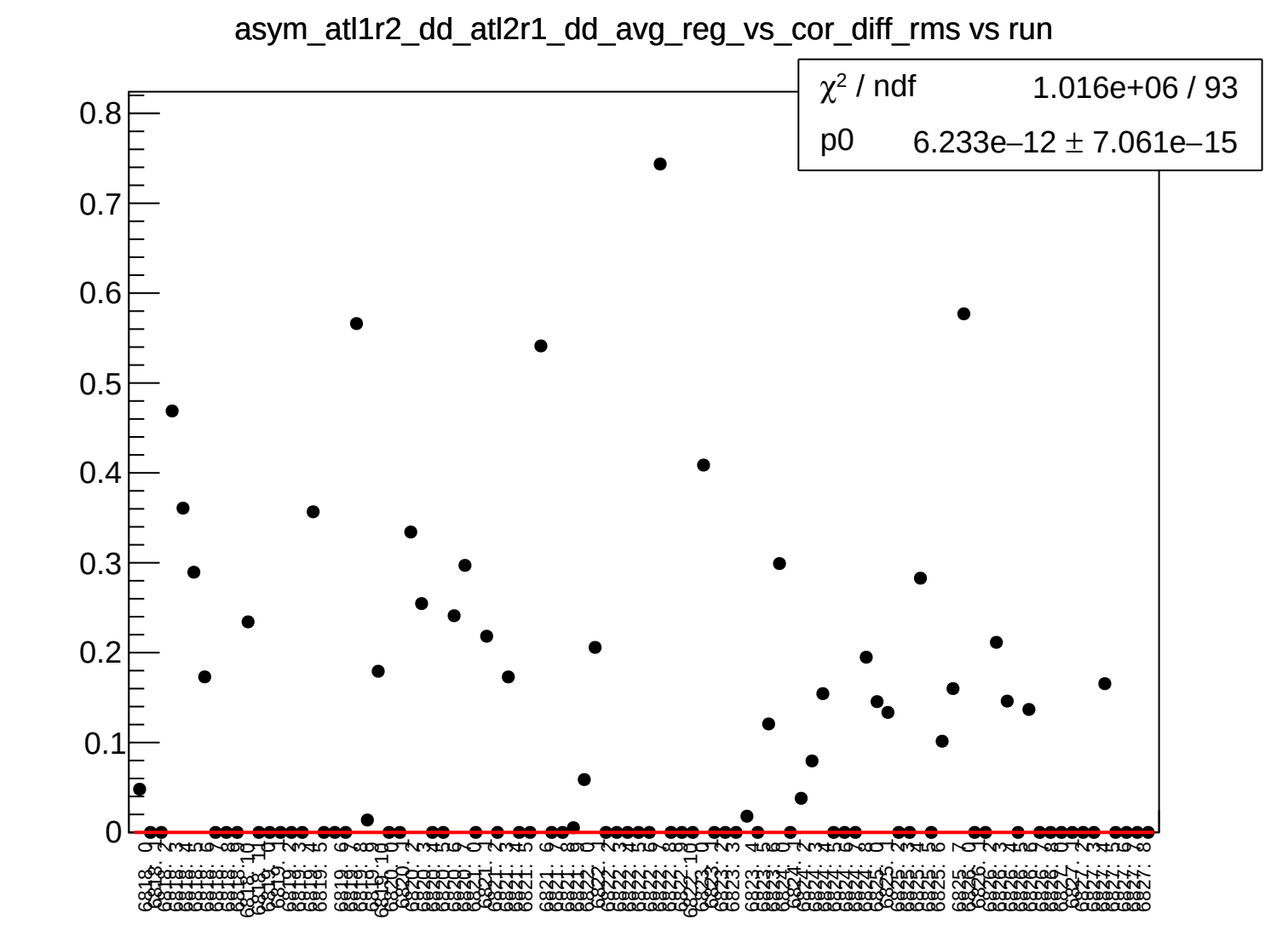

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 90.5 / 93
p0 −589.3 ± 1345
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −294.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

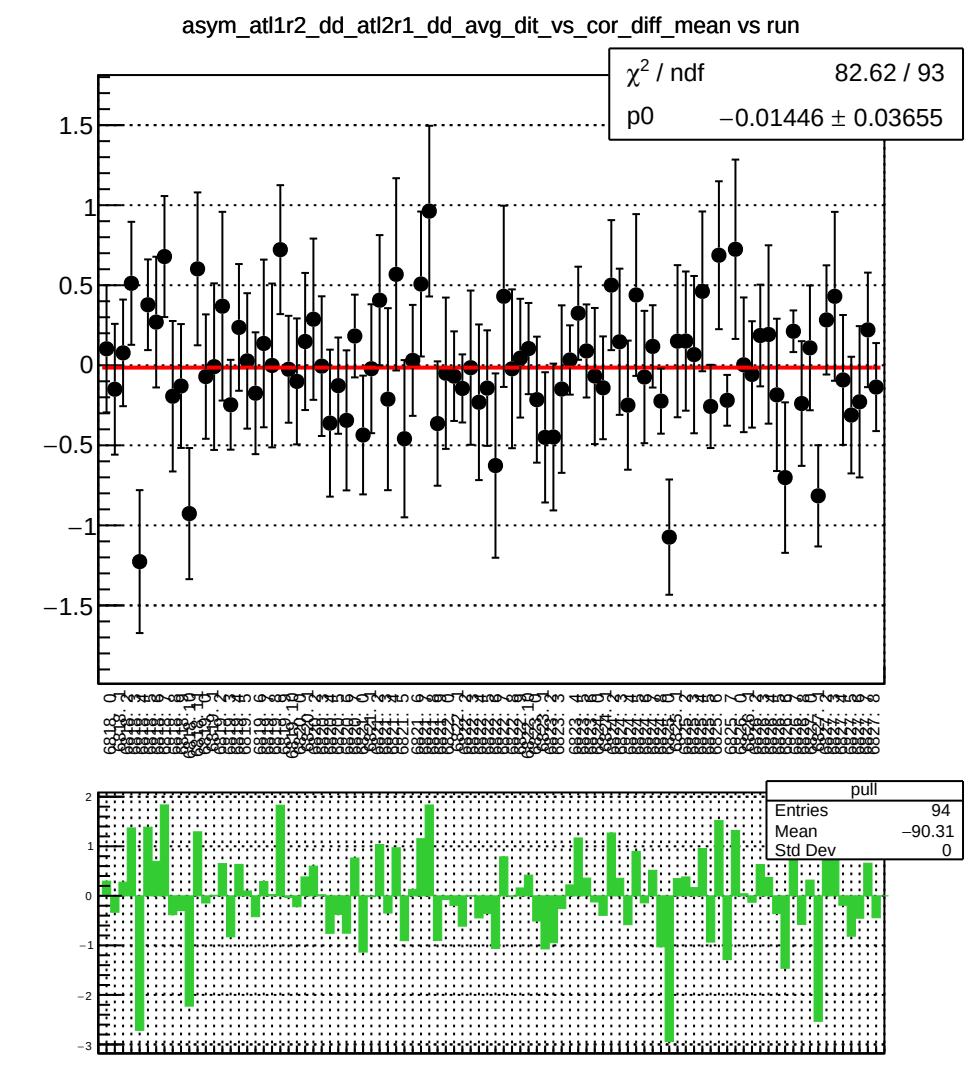

pull1D
Entries 94
Mean 0.008029
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

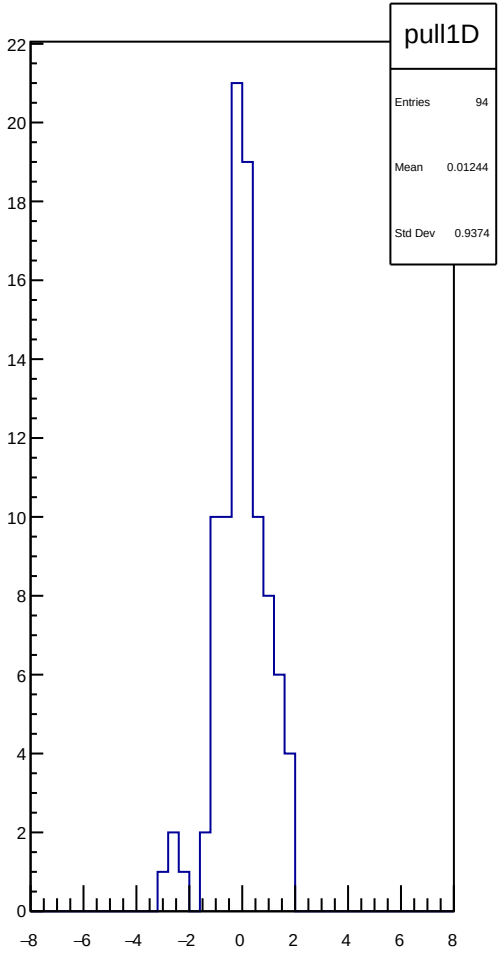

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 124.7 / 93
p0 1275 ± 0.9514
1320
1310
1300
1290
1280
1270
1260
1250
1240

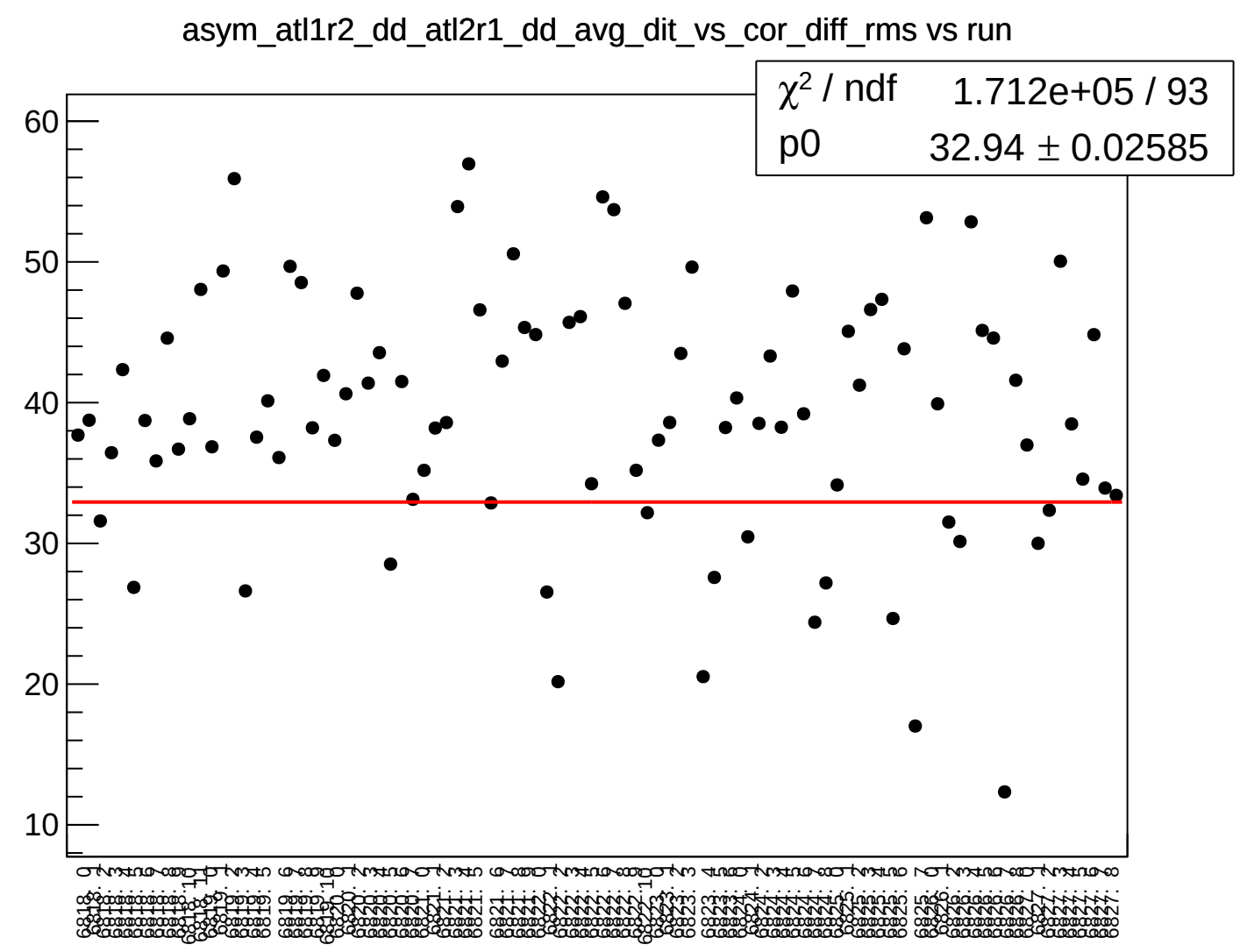

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.8 / 93
p0 8.145e−15 ± 9.985e−15
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 125.7
Std Dev 0
2
1
0
−1
−2

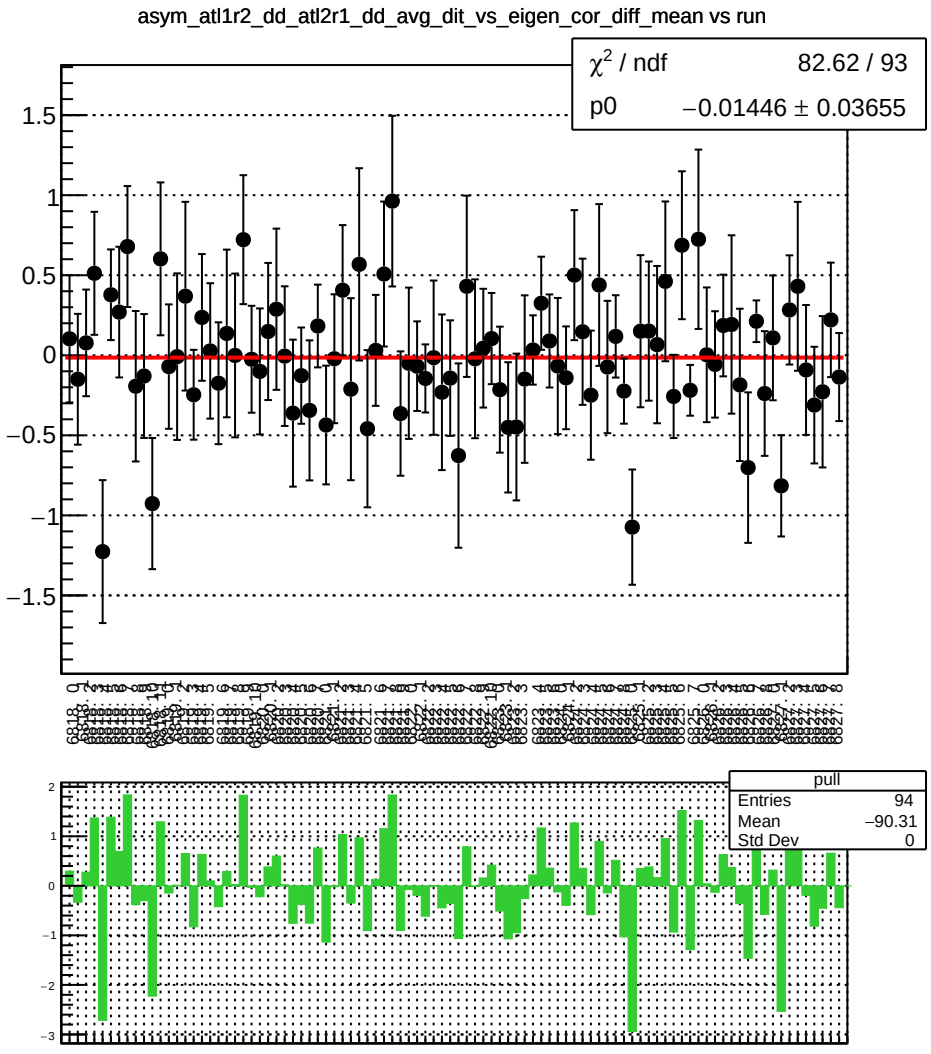

pull1D
Entries 94
Mean 0.01945
Std Dev 1.056
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

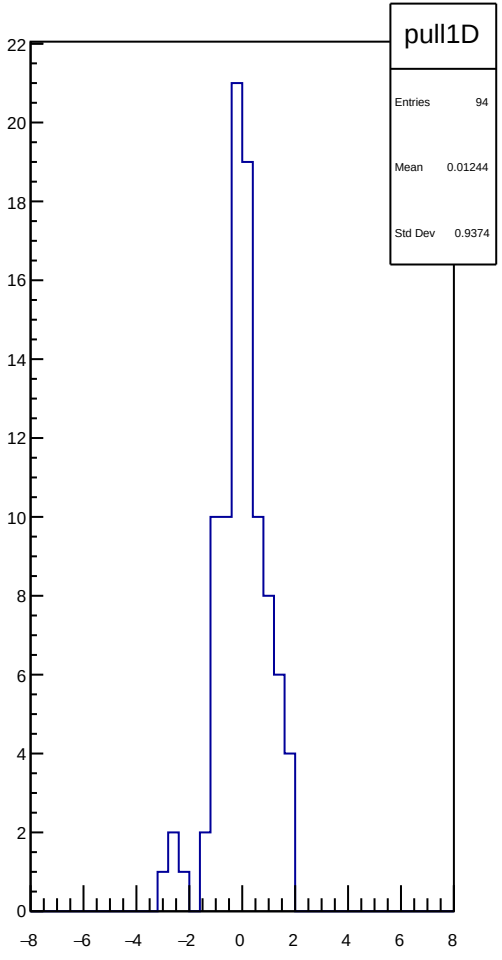

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.016e+06 / 93
p0 6.233e−12 ± 7.061e−15
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

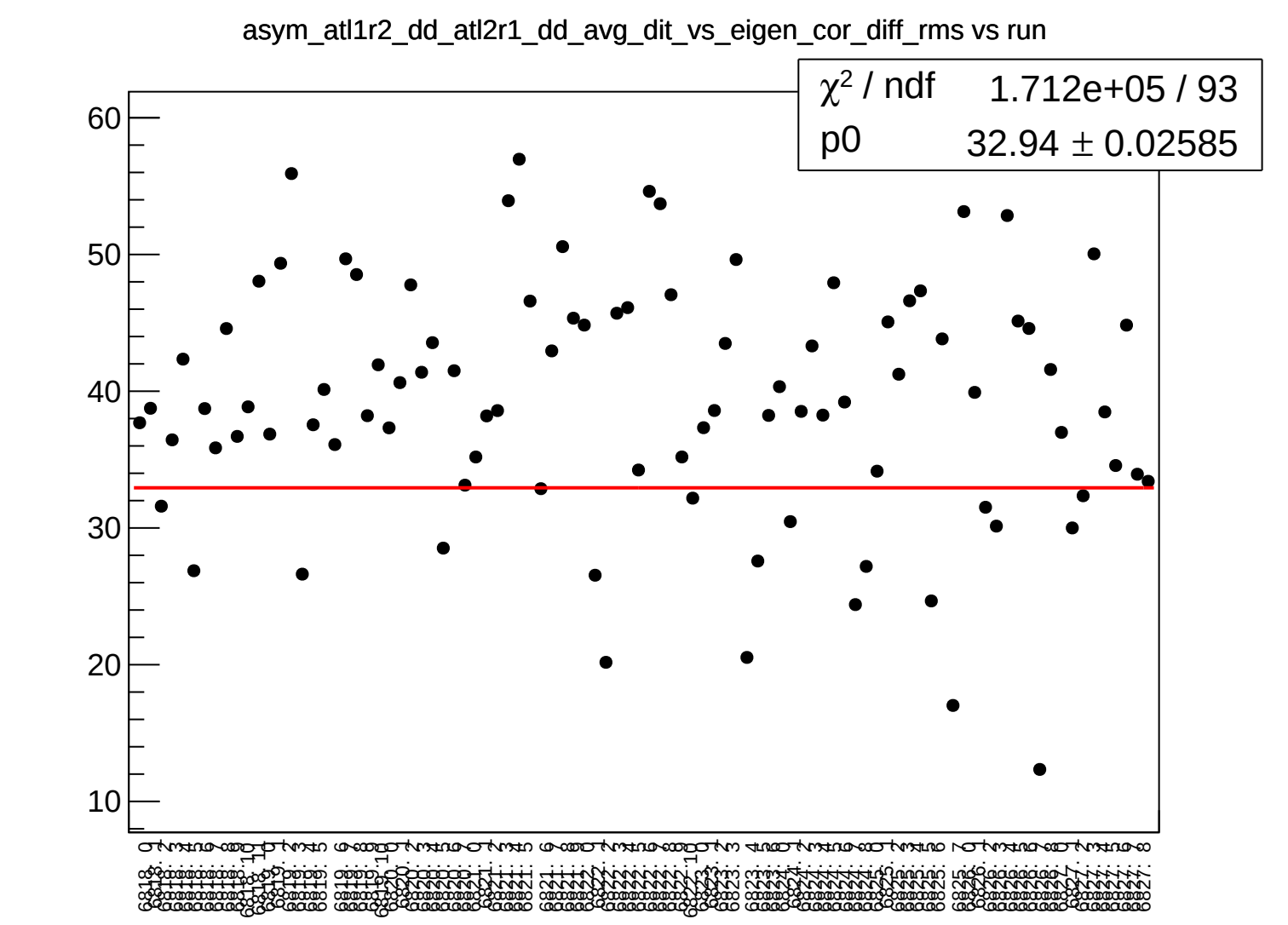

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.62 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.31
Std Dev 0

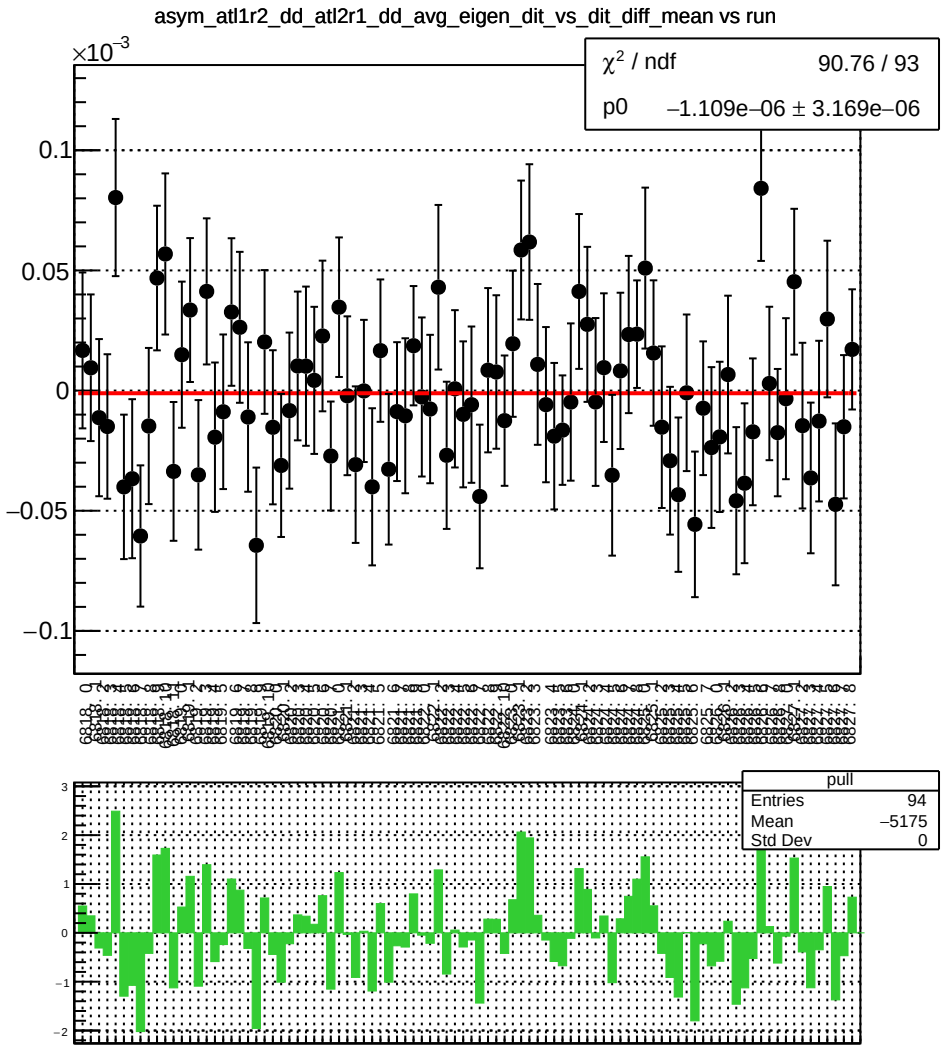

pull1D
Entries 94
Mean 0.01244
Std Dev 0.9374

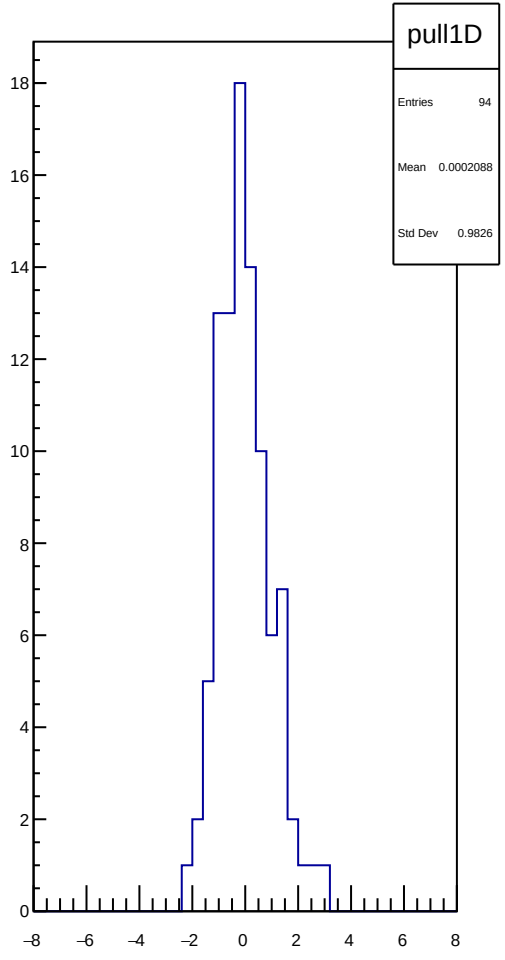

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

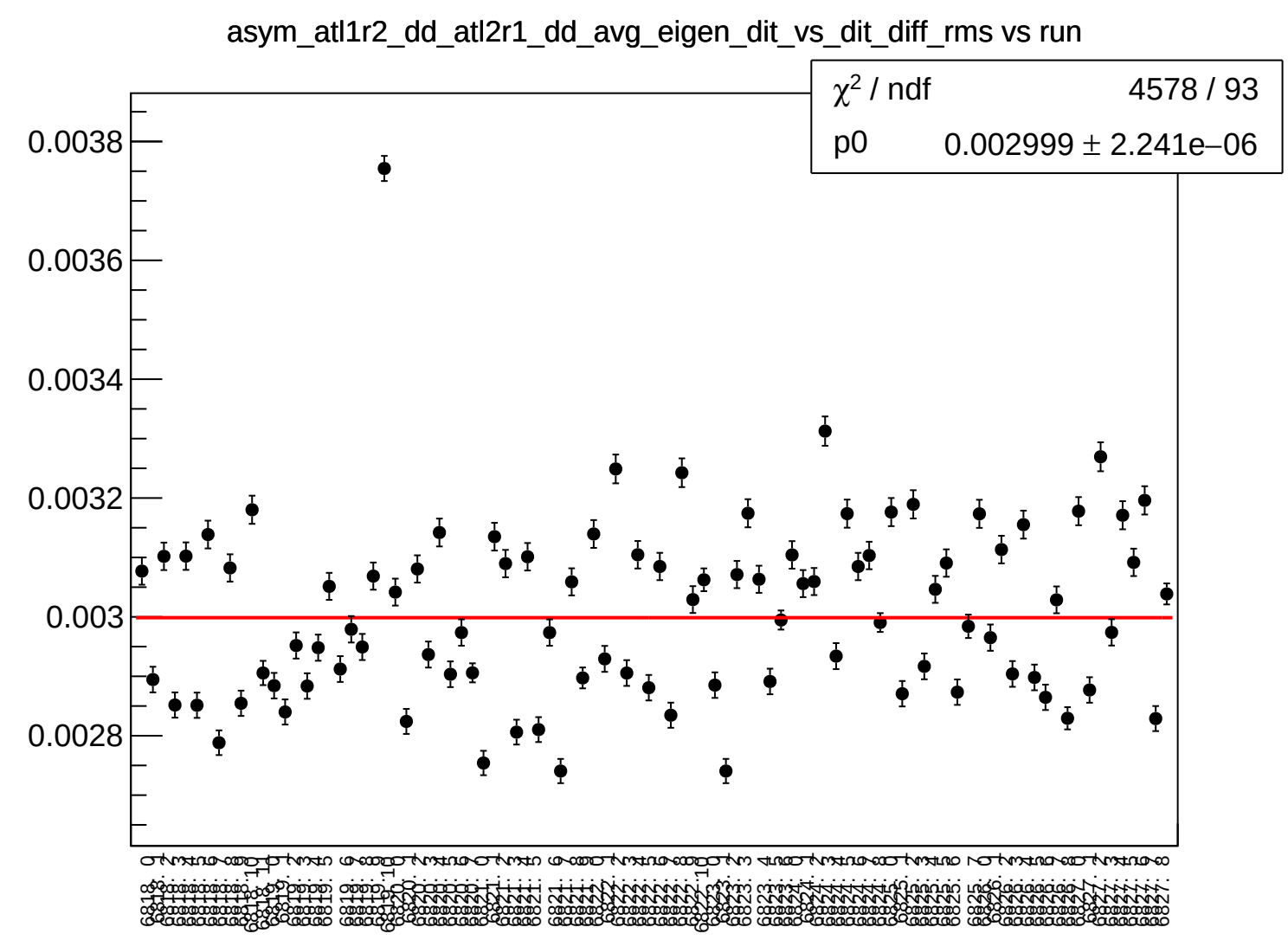

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.62 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.31
Std Dev 0

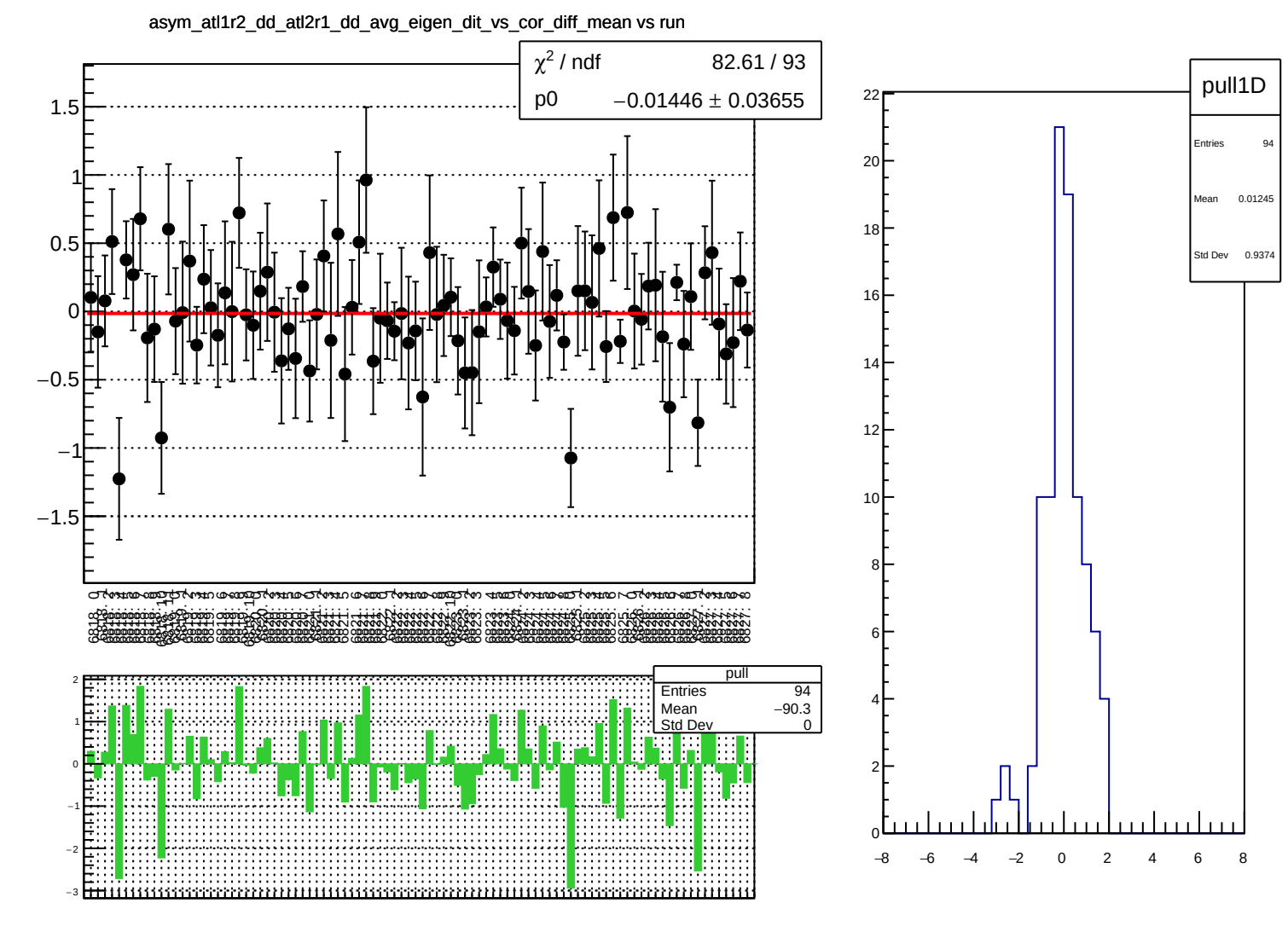

pull1D
Entries 94
Mean 0.01244
Std Dev 0.9374

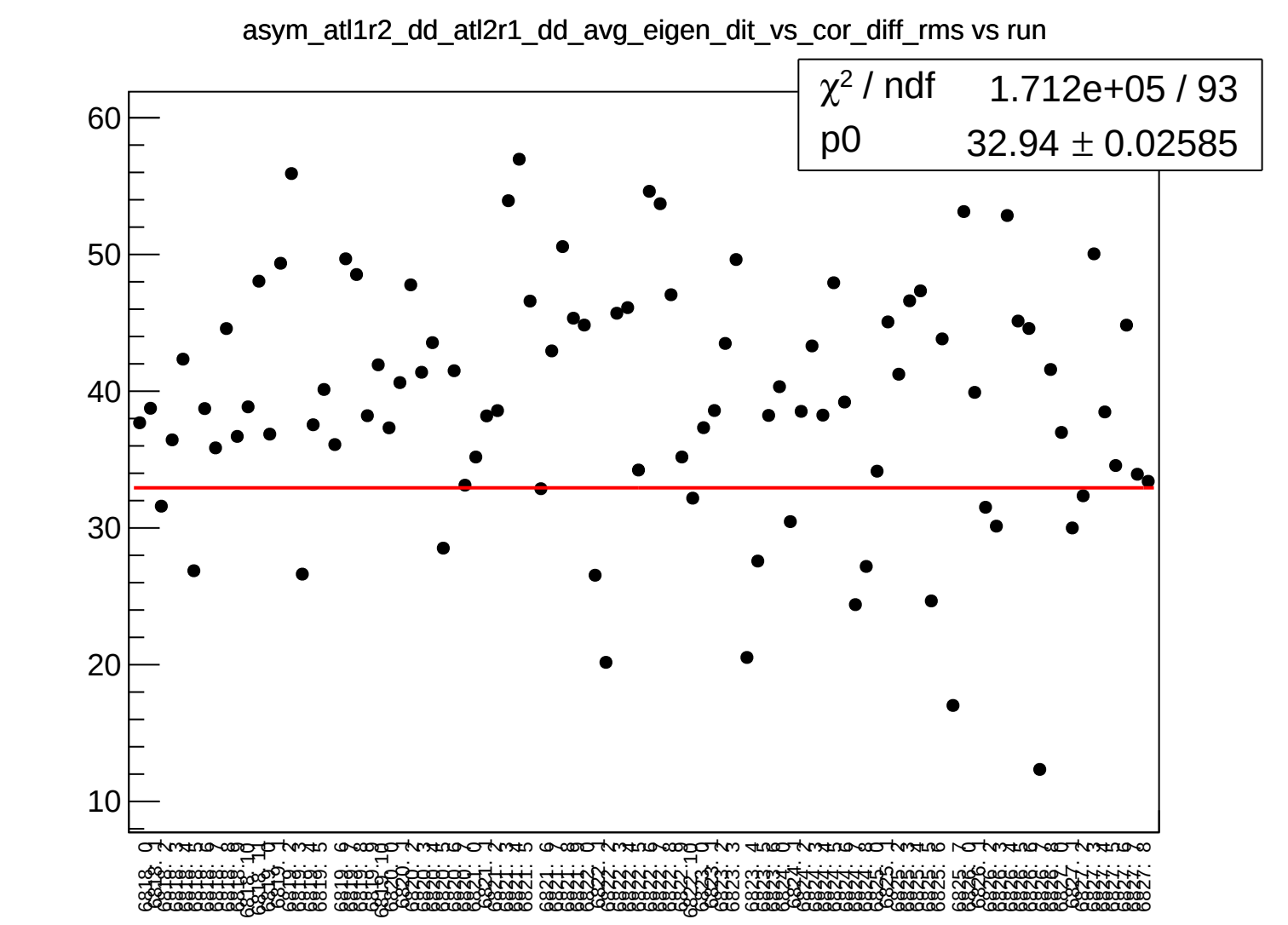

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

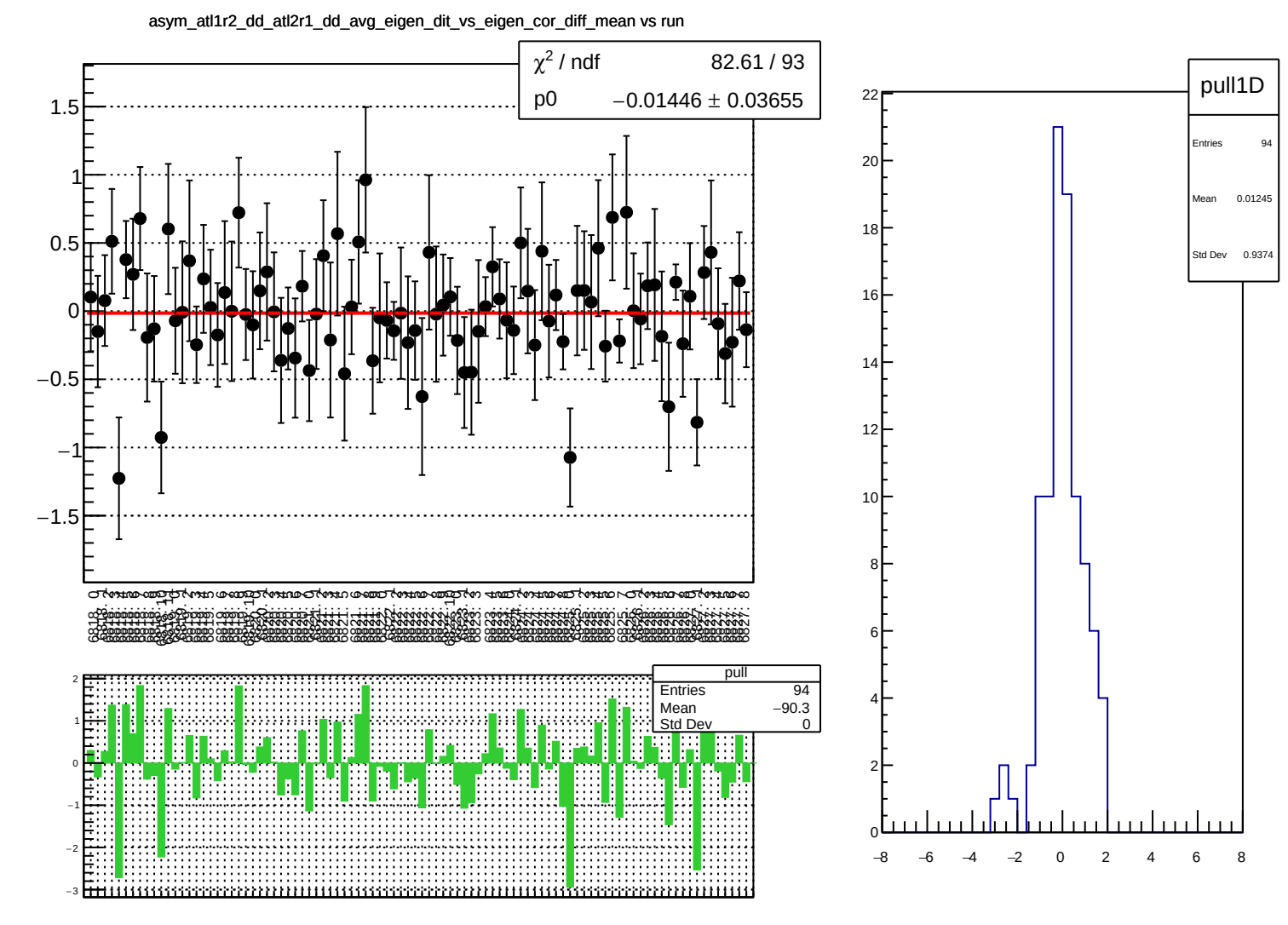

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.76 / 93
p0 −1.109e−06 ± 3.169e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −5175
Std Dev 0
3
2
1
0
−1
−2

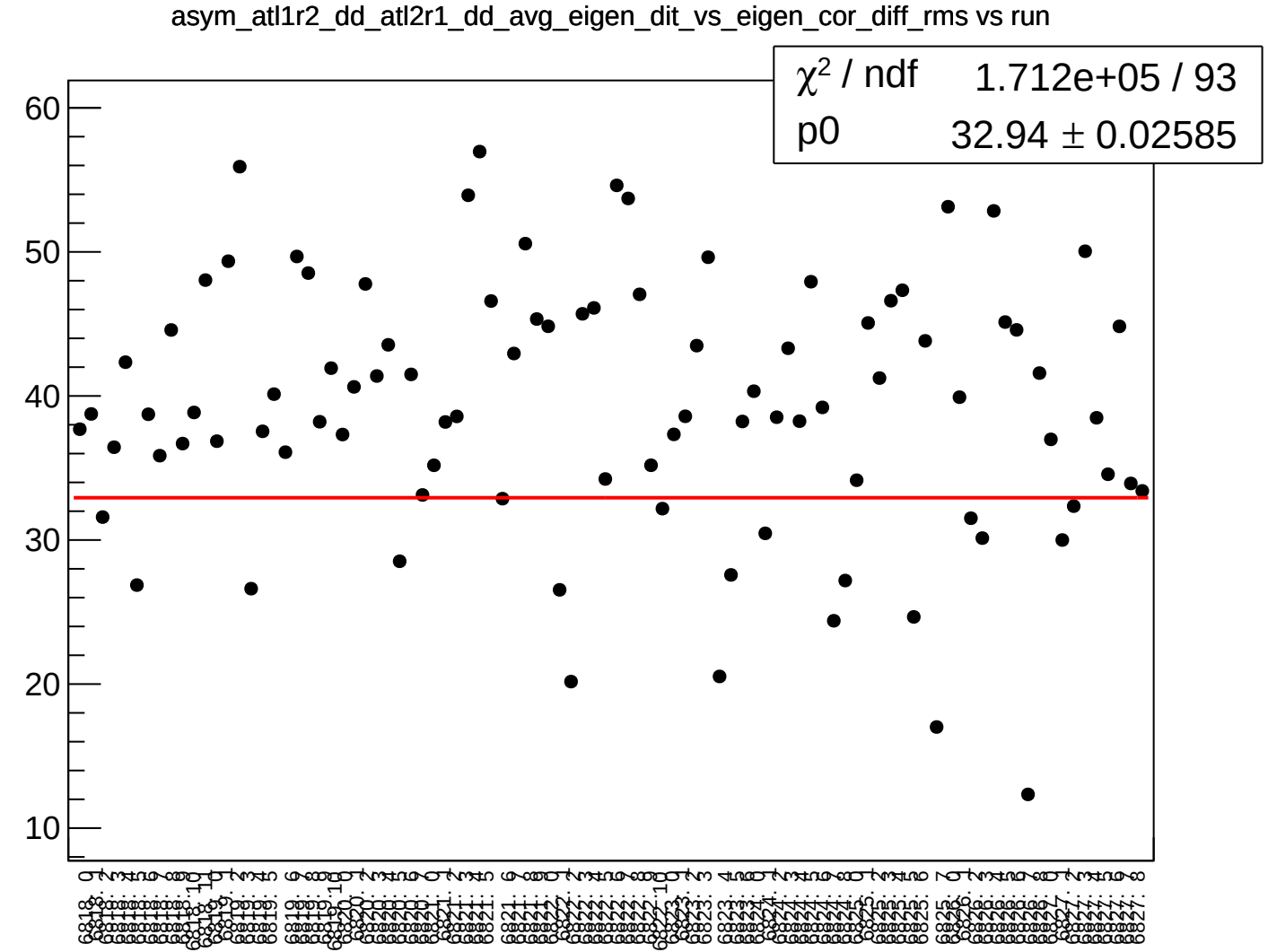

pull1D
Entries 94
Mean 0.0002088
Std Dev 0.9826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

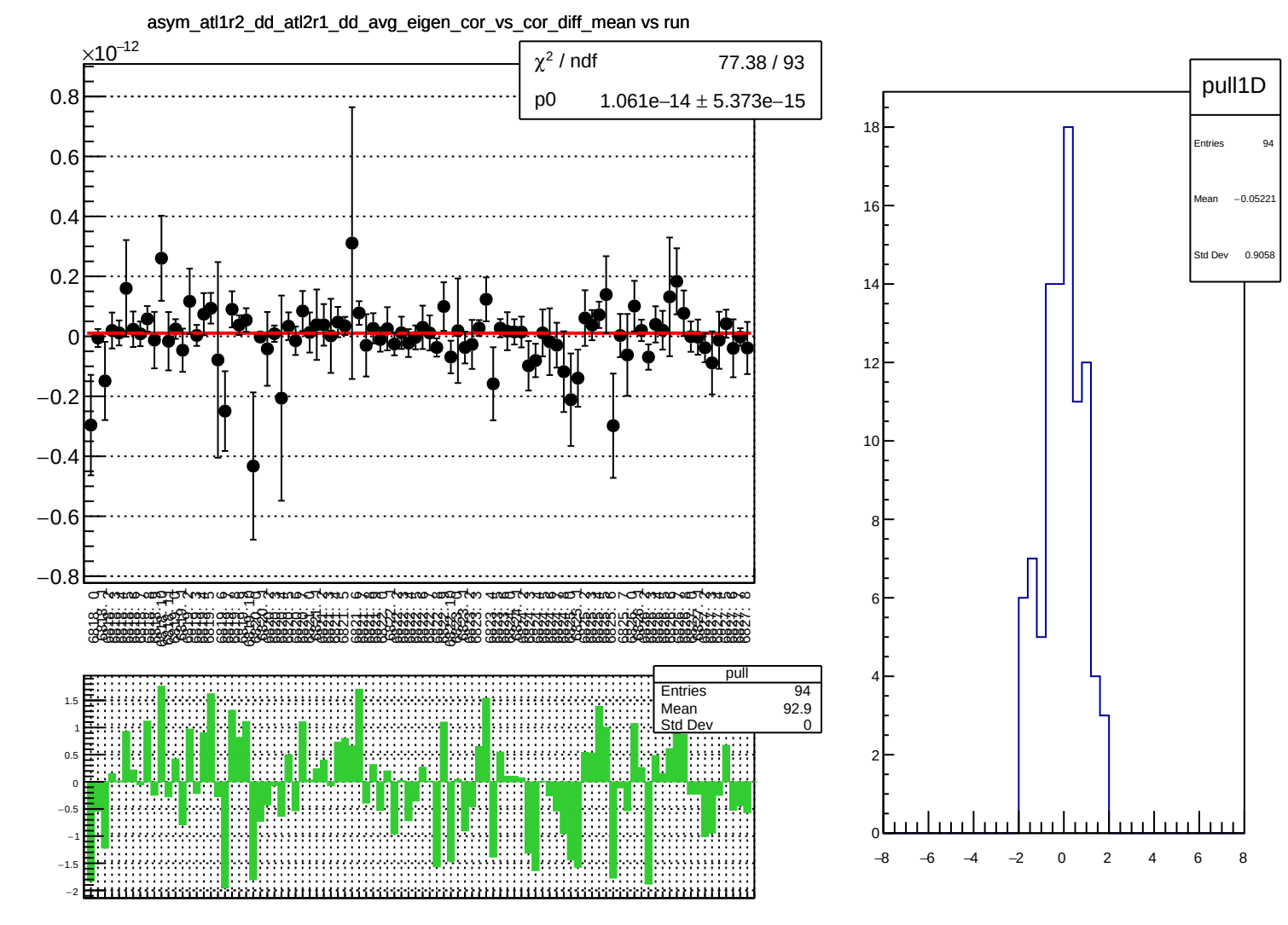

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4578 / 93
p0 0.002999 ± 2.241e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

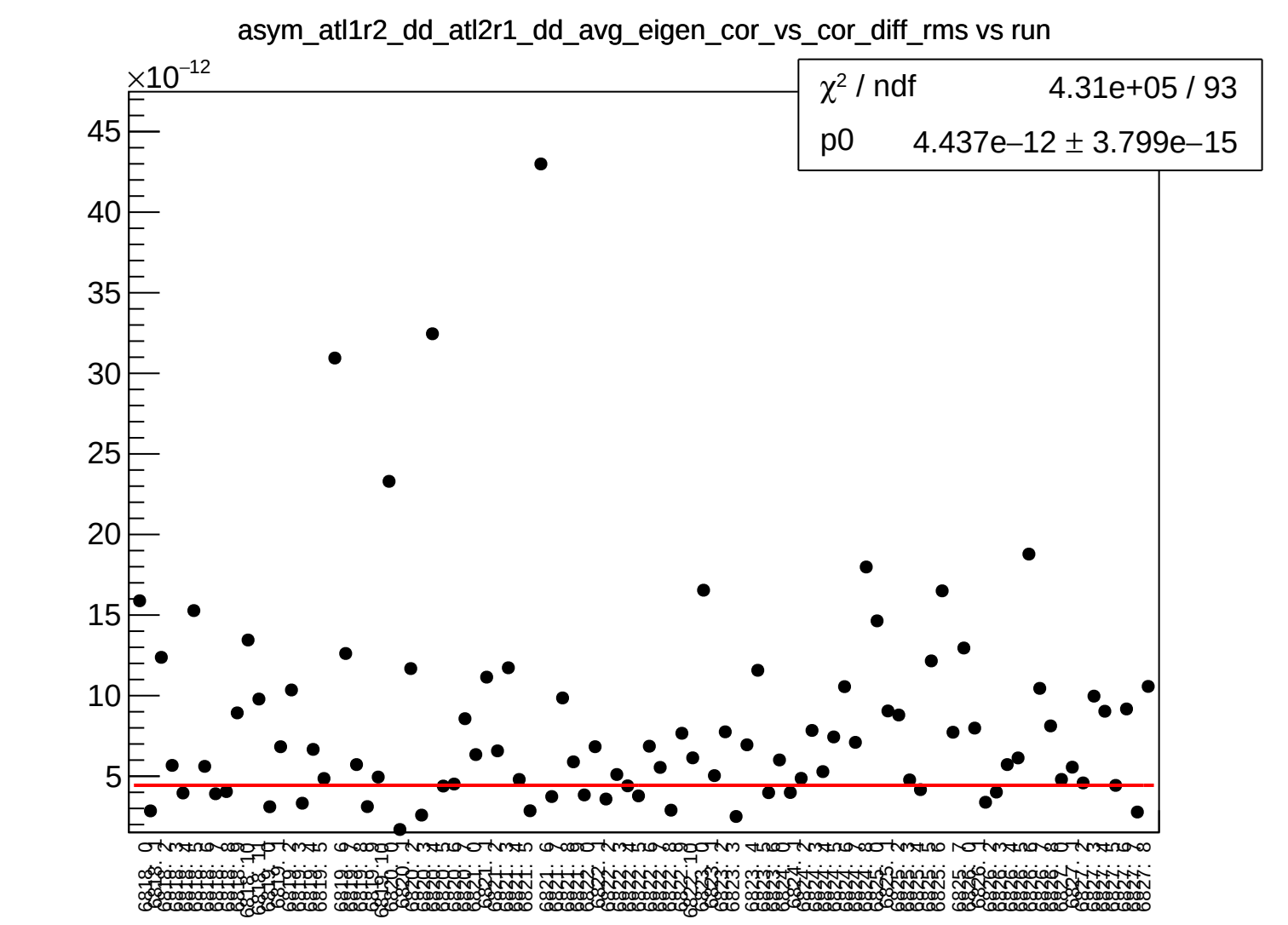

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.3
Std Dev 0
pull1D
Entries 94
Mean 0.01245
Std Dev 0.9374

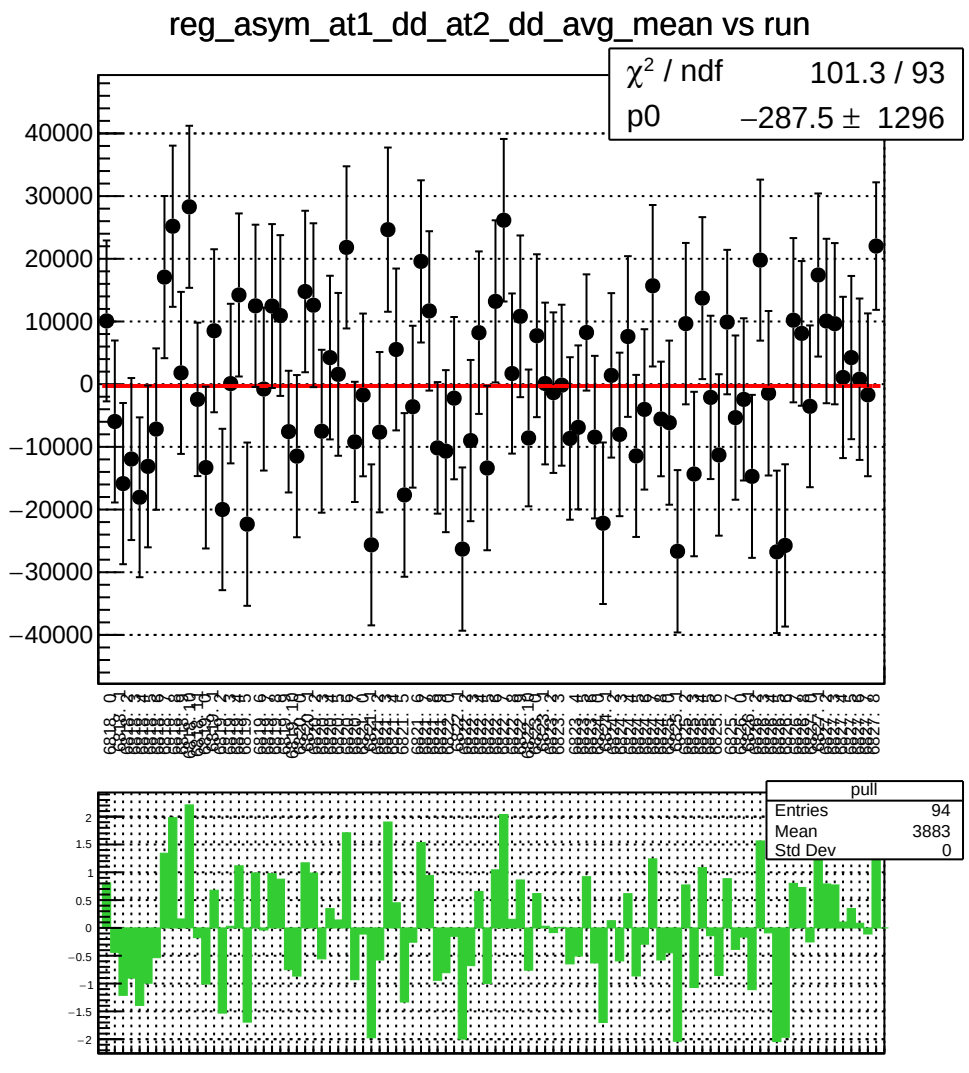

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

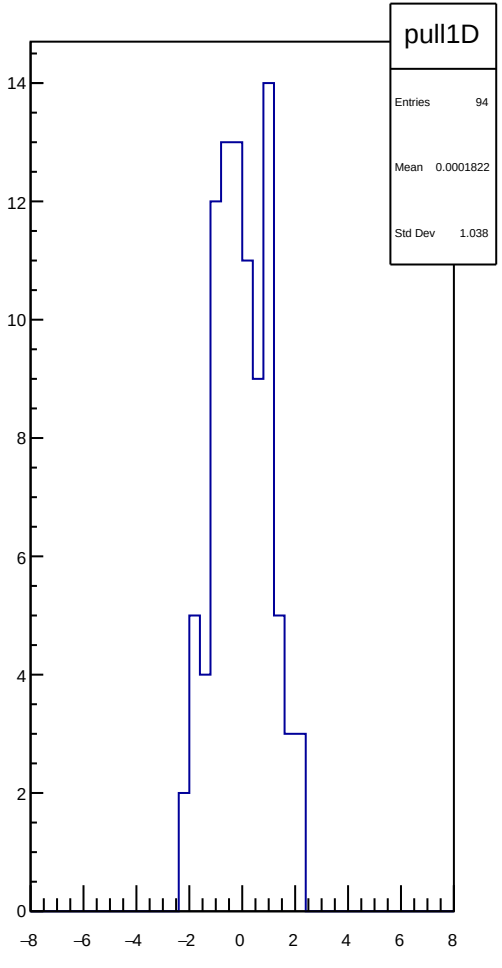

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 −0.01446 ± 0.03655
pull
Entries 94
Mean −90.3
Std Dev 0
pull1D
Entries 94
Mean 0.01245
Std Dev 0.9374

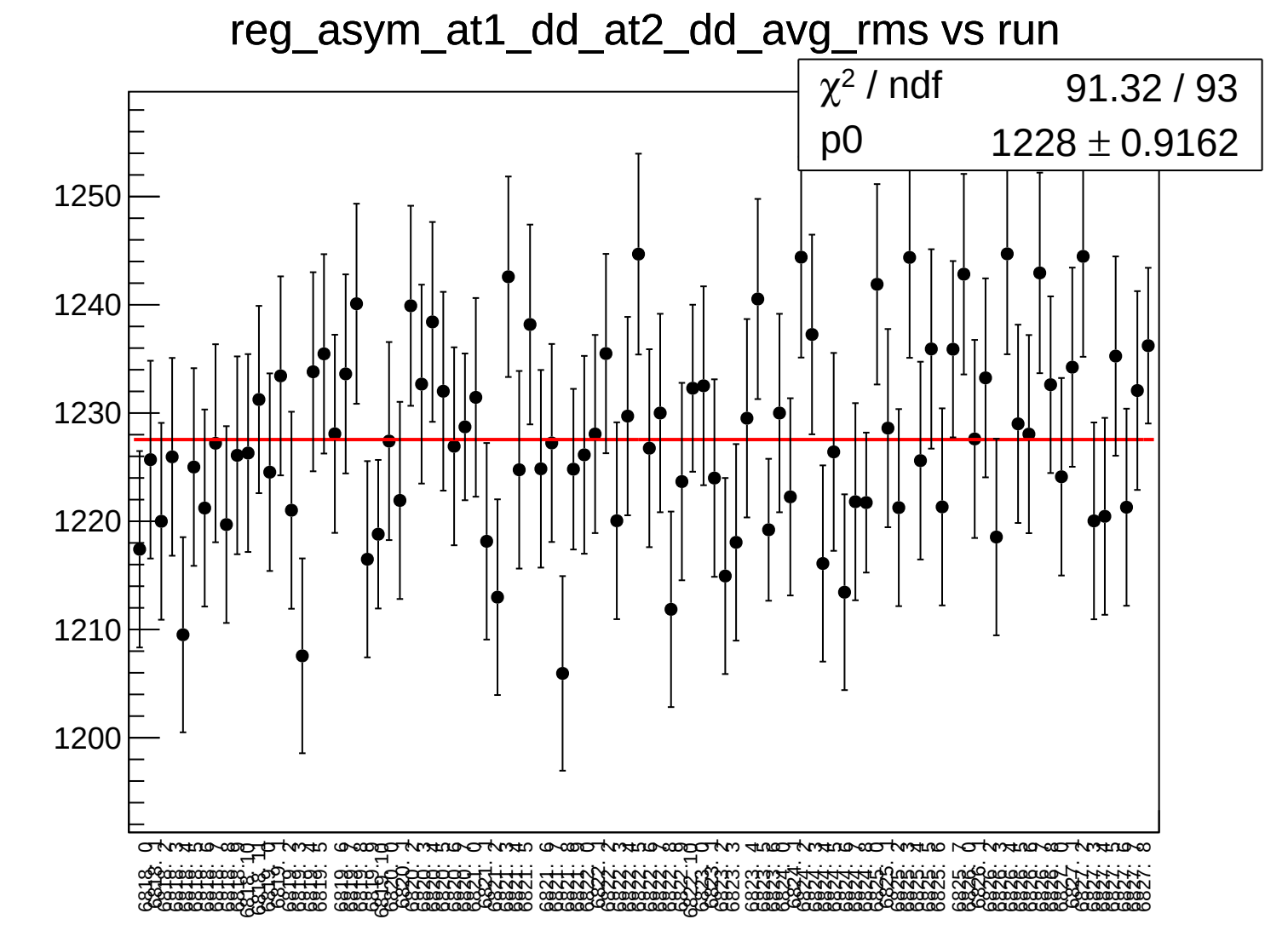

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.712e+05 / 93
p0 32.94 ± 0.02585
60
50
40
30
20
10

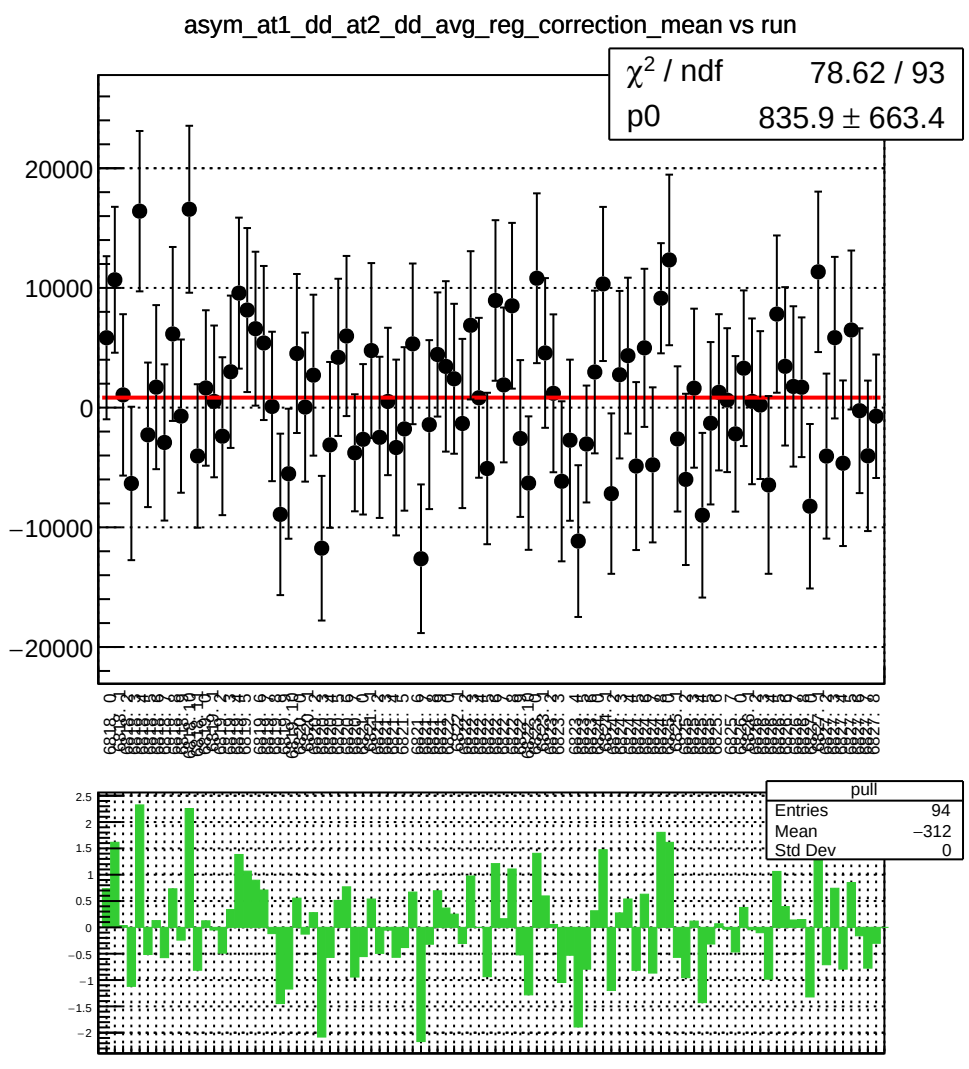

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.38 / 93
p0 1.061e−14 ± 5.373e−15
pull
Entries 94
Mean 92.9
Std Dev 0
pull1D
Entries 94
Mean −0.05221
Std Dev 0.9058

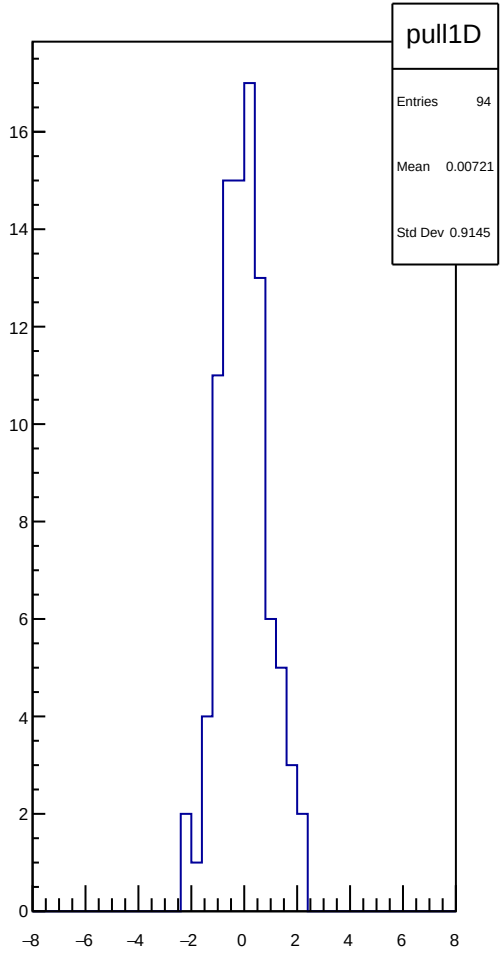

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.31e+05 / 93
p0 4.437e−12 ± 3.799e−15
45
40
35
30
25
20
15
10
5

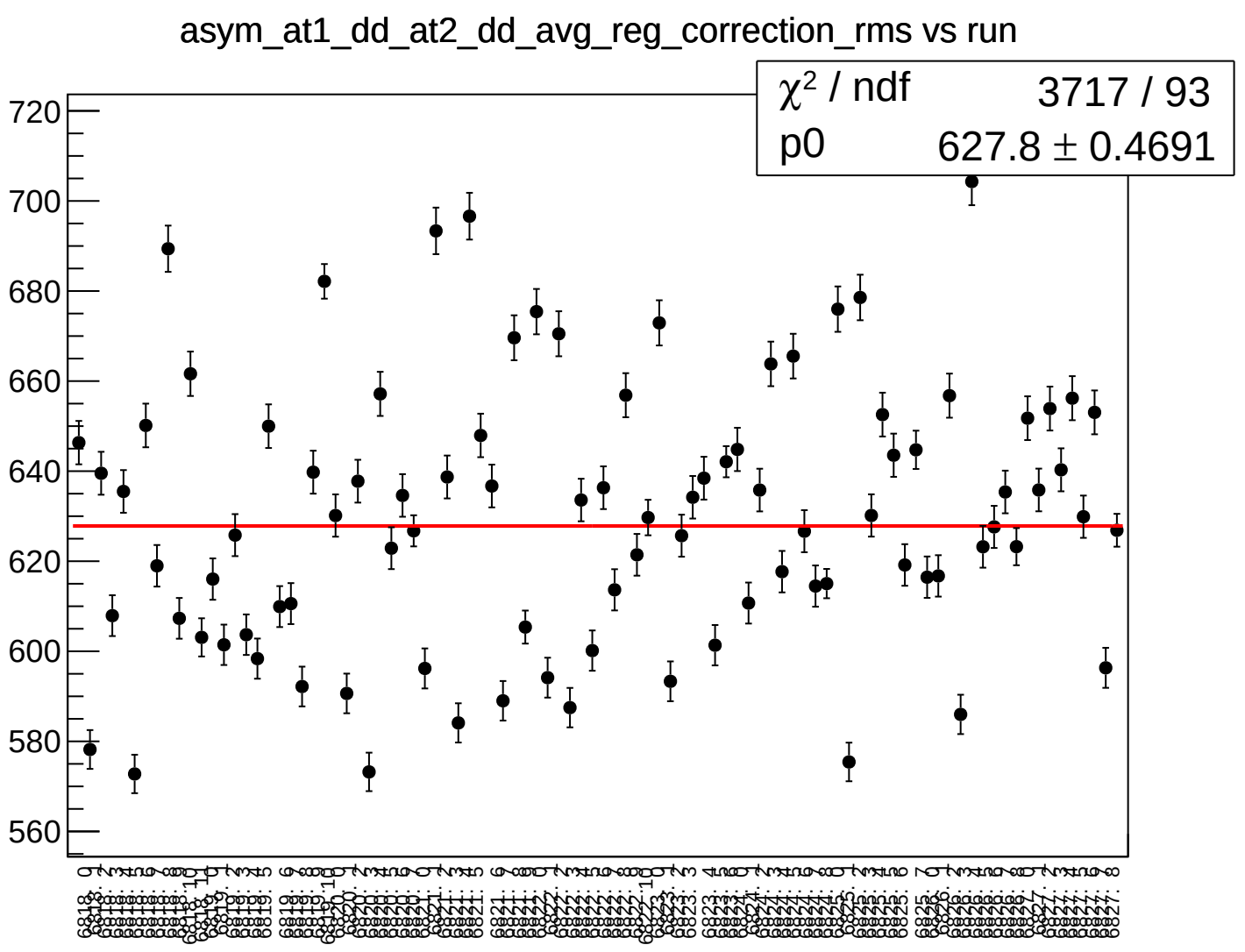

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.3 / 93
p0 −287.5 ± 1296
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 3883
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

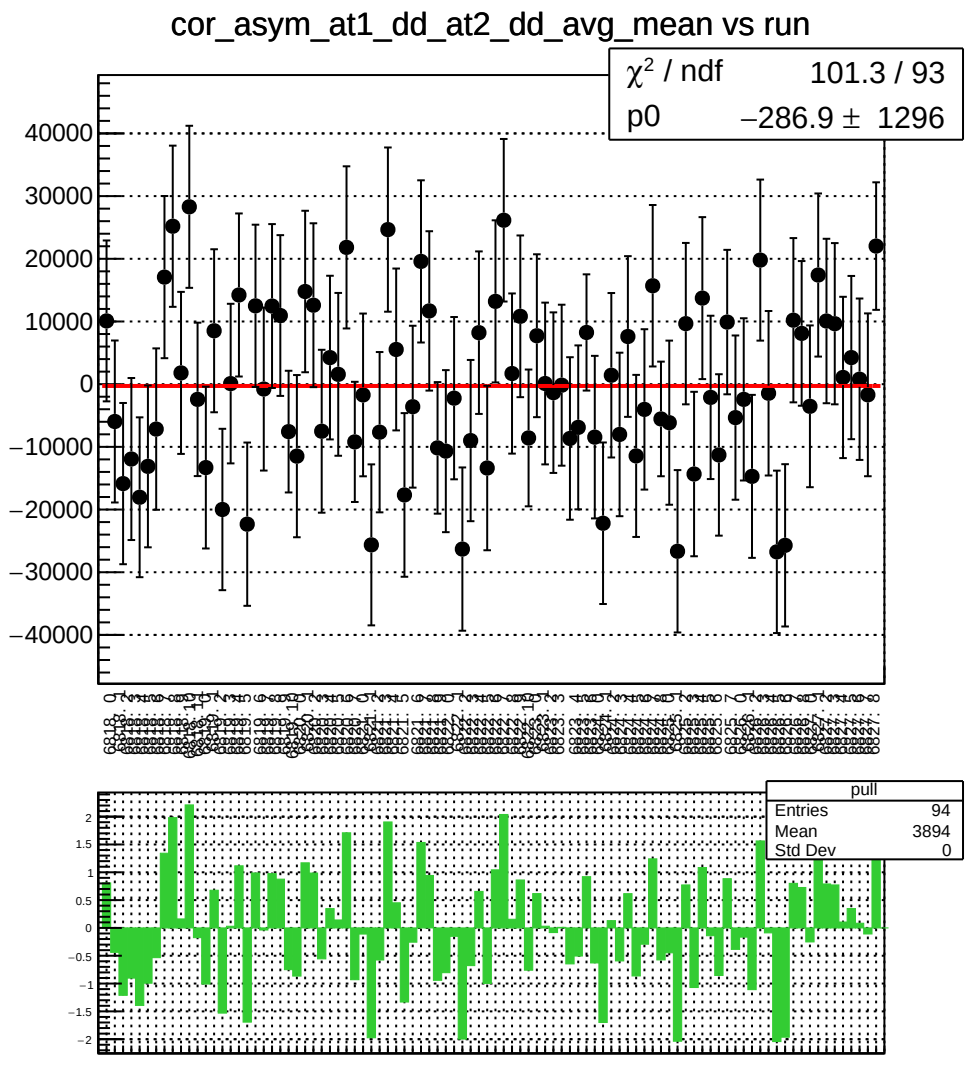

pull1D
Entries 94
Mean 0.0001822
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

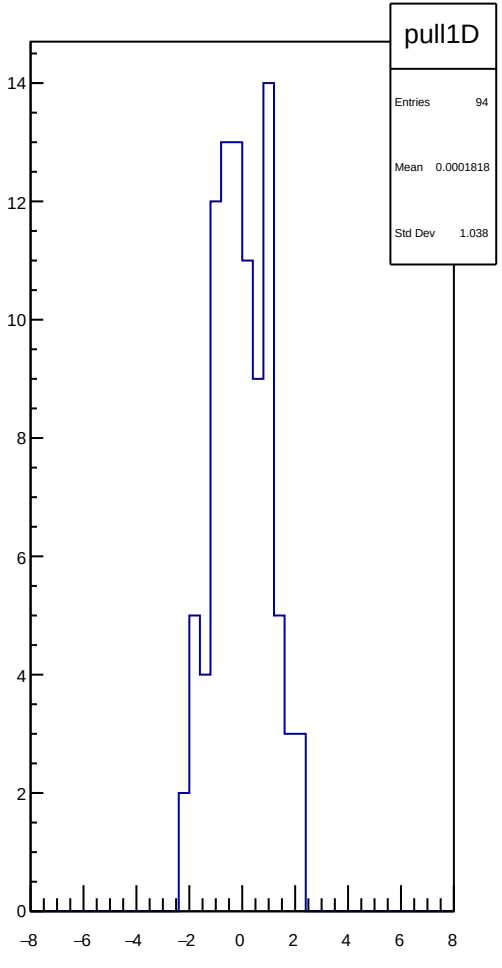

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

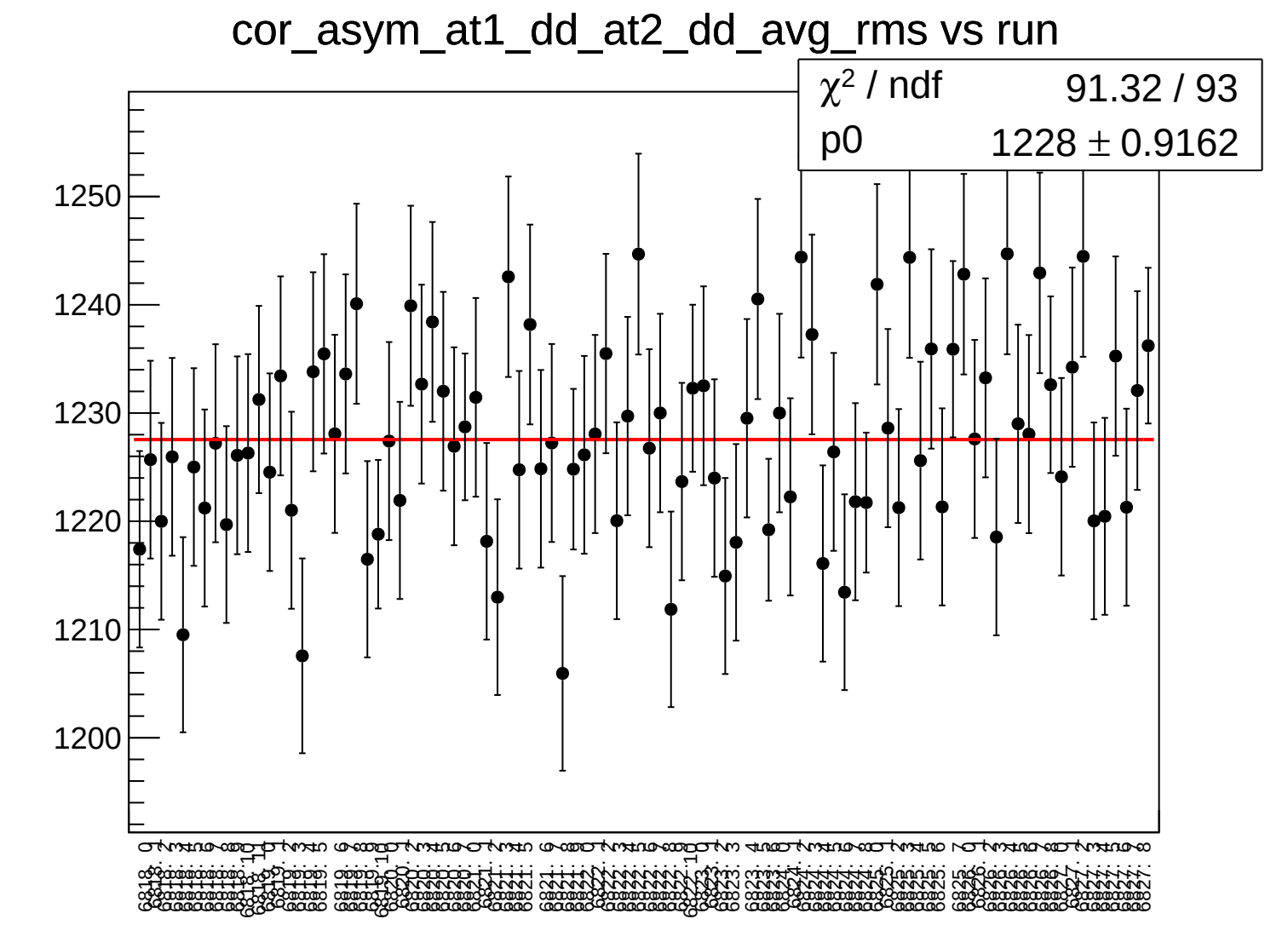

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 78.62 / 93
p0 835.9 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

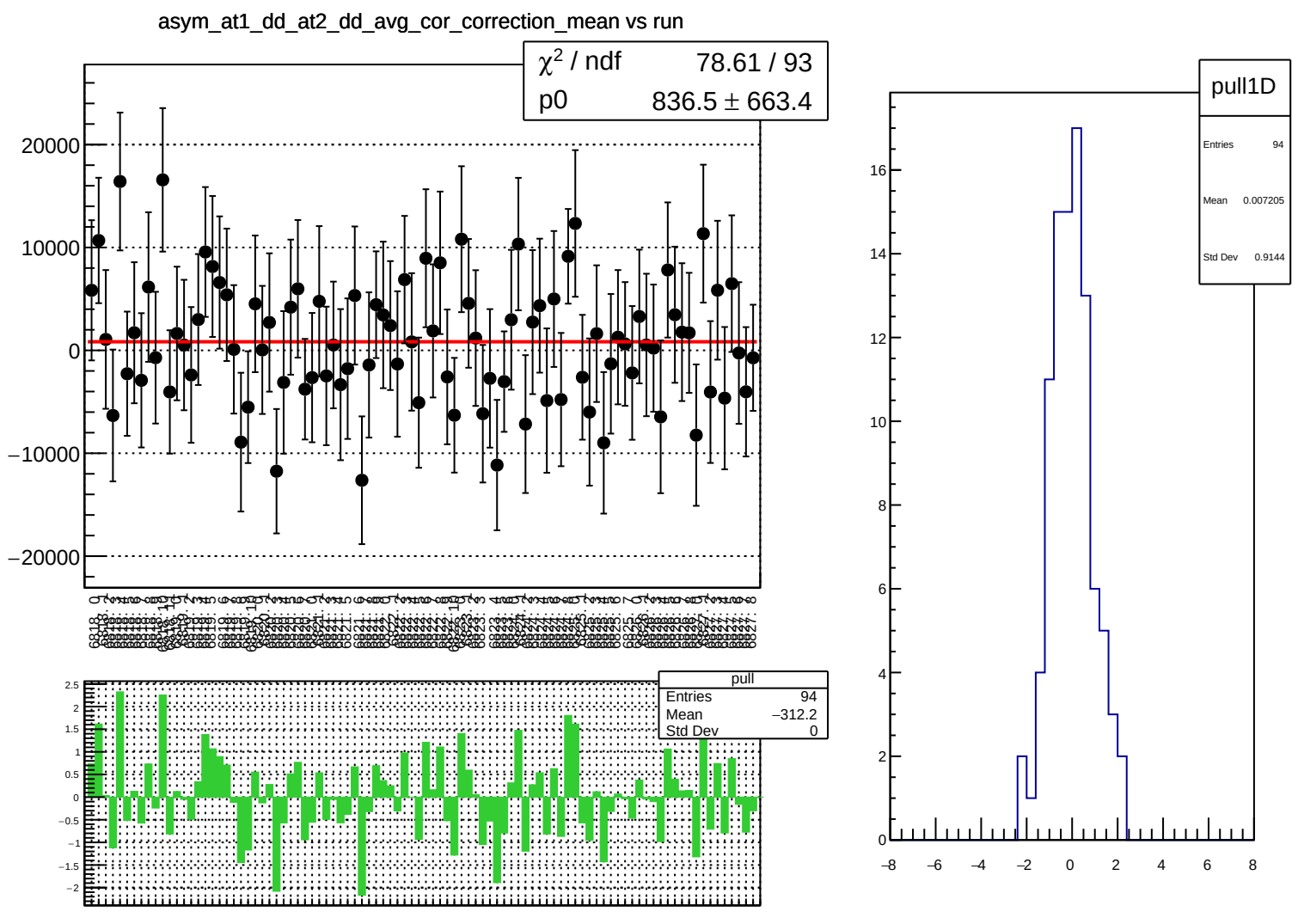

pull1D
Entries 94
Mean 0.00721
Std Dev 0.9145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

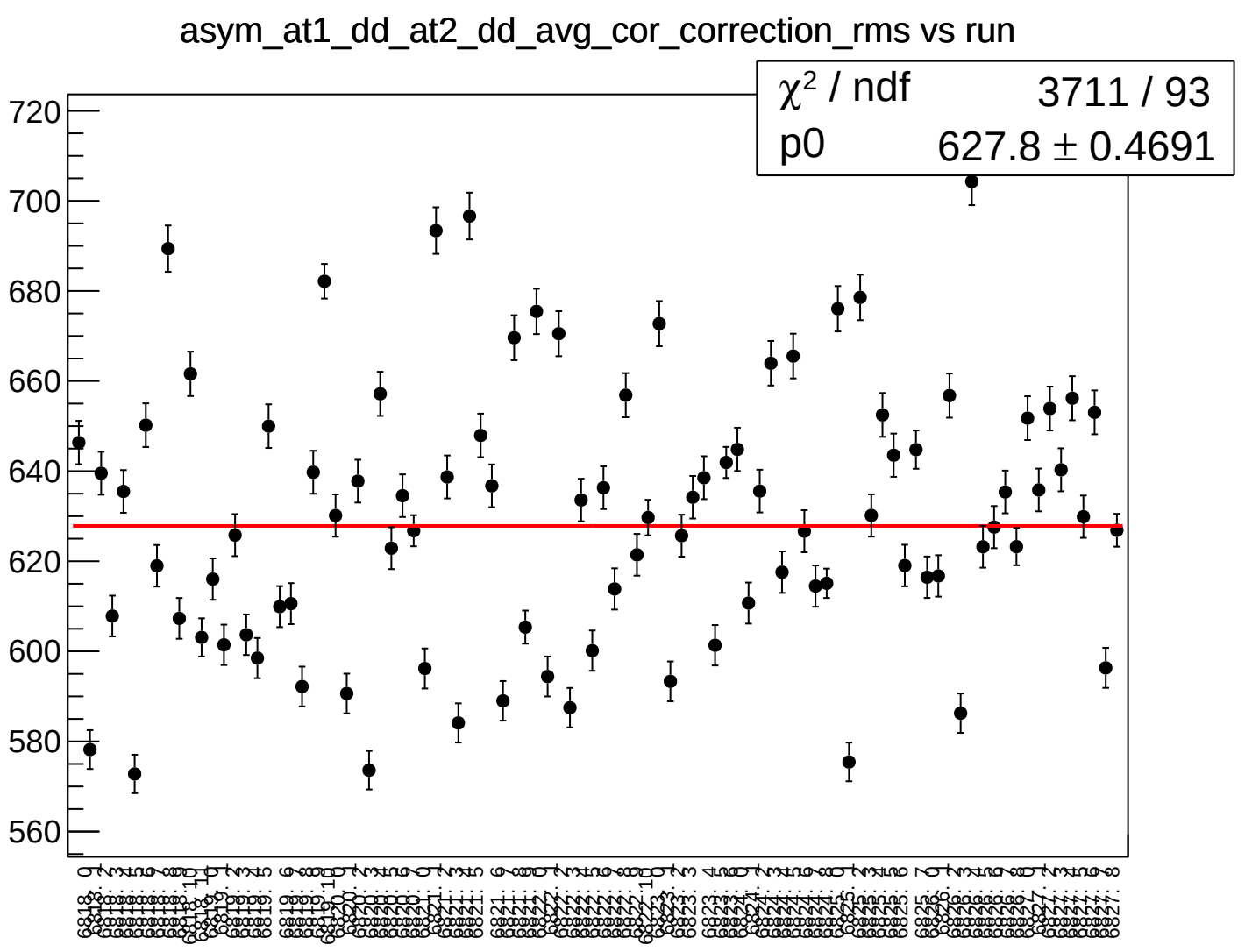

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 3717 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

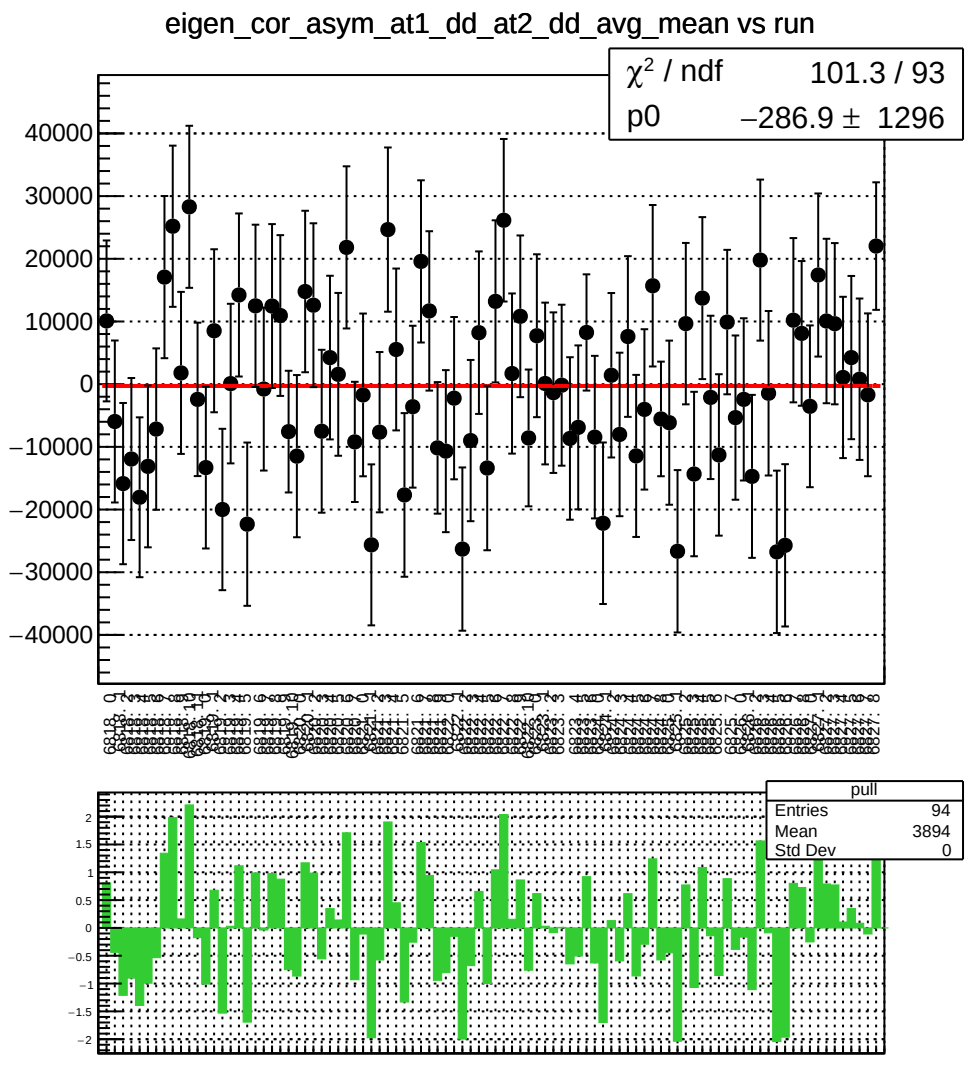

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.3 / 93
p0 −286.9 ± 1296
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 3894
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

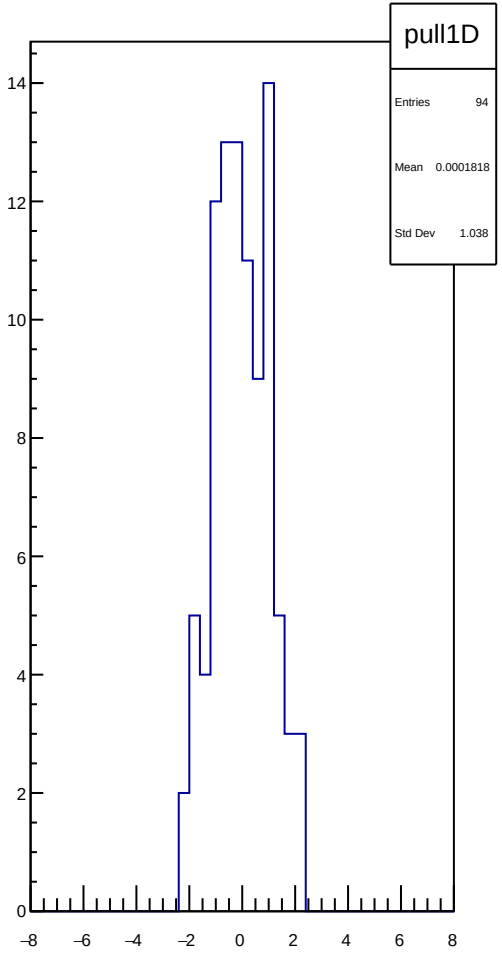

pull1D
Entries 94
Mean 0.0001818
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

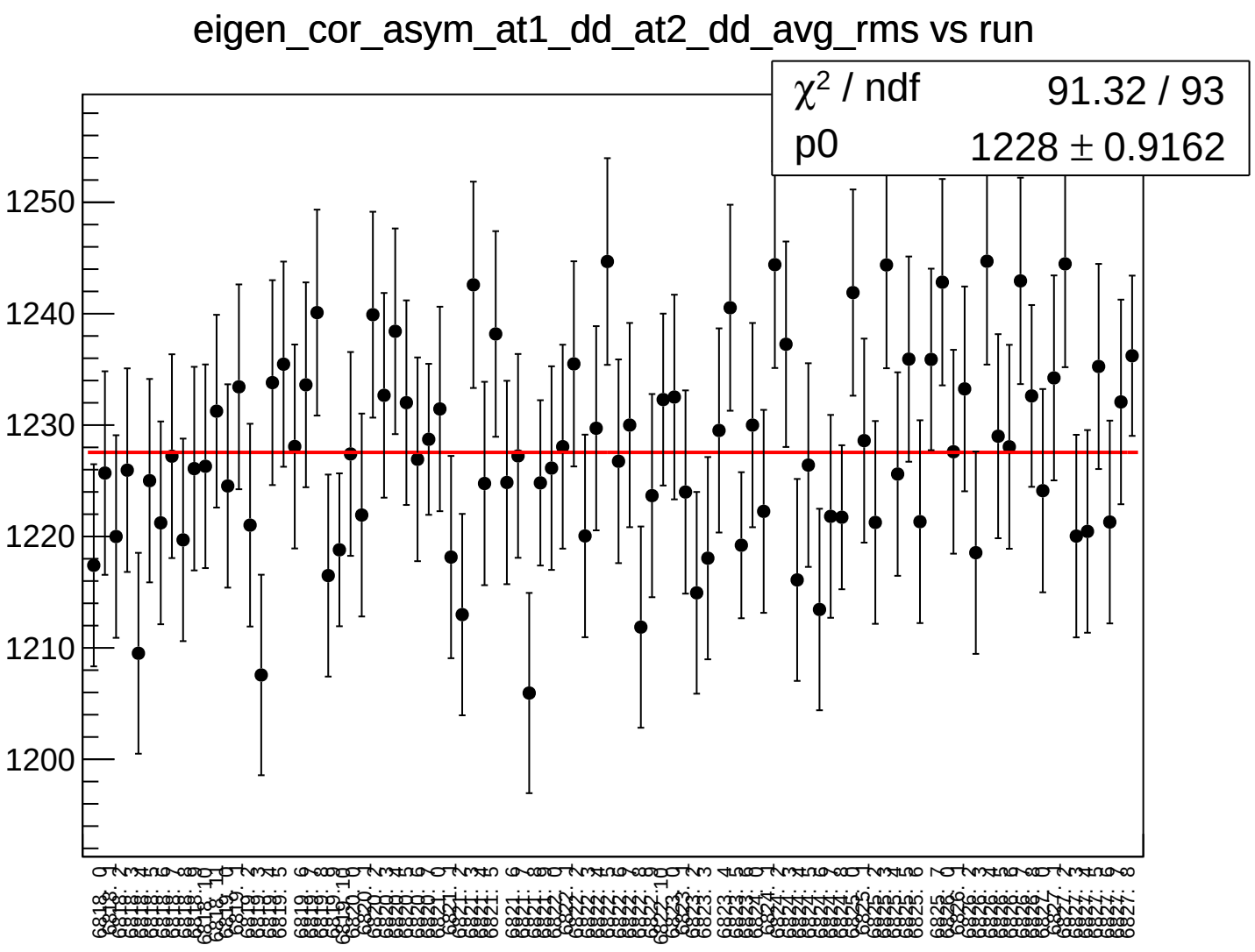

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

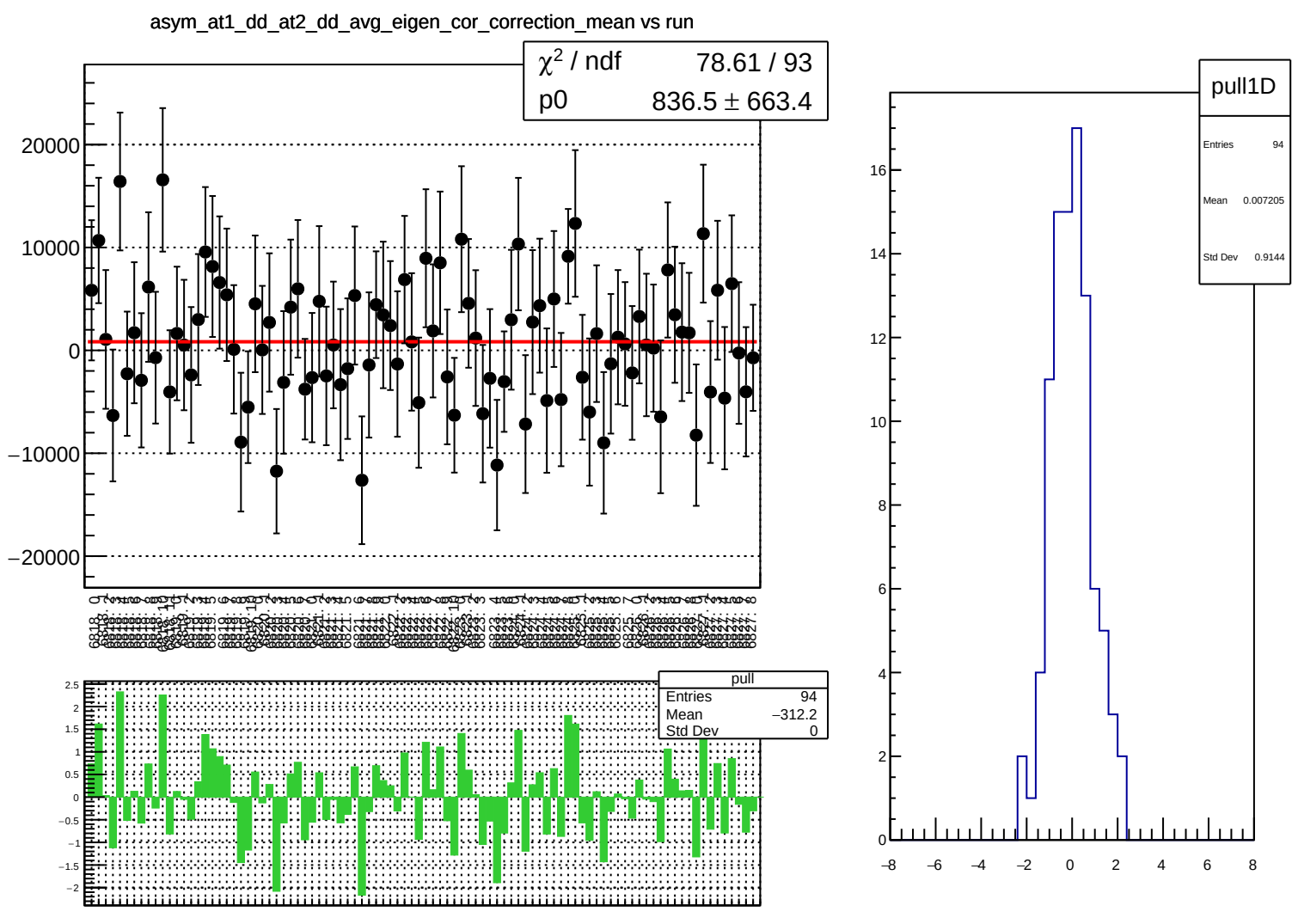

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 78.61 / 93
p0 836.5 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.007205
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

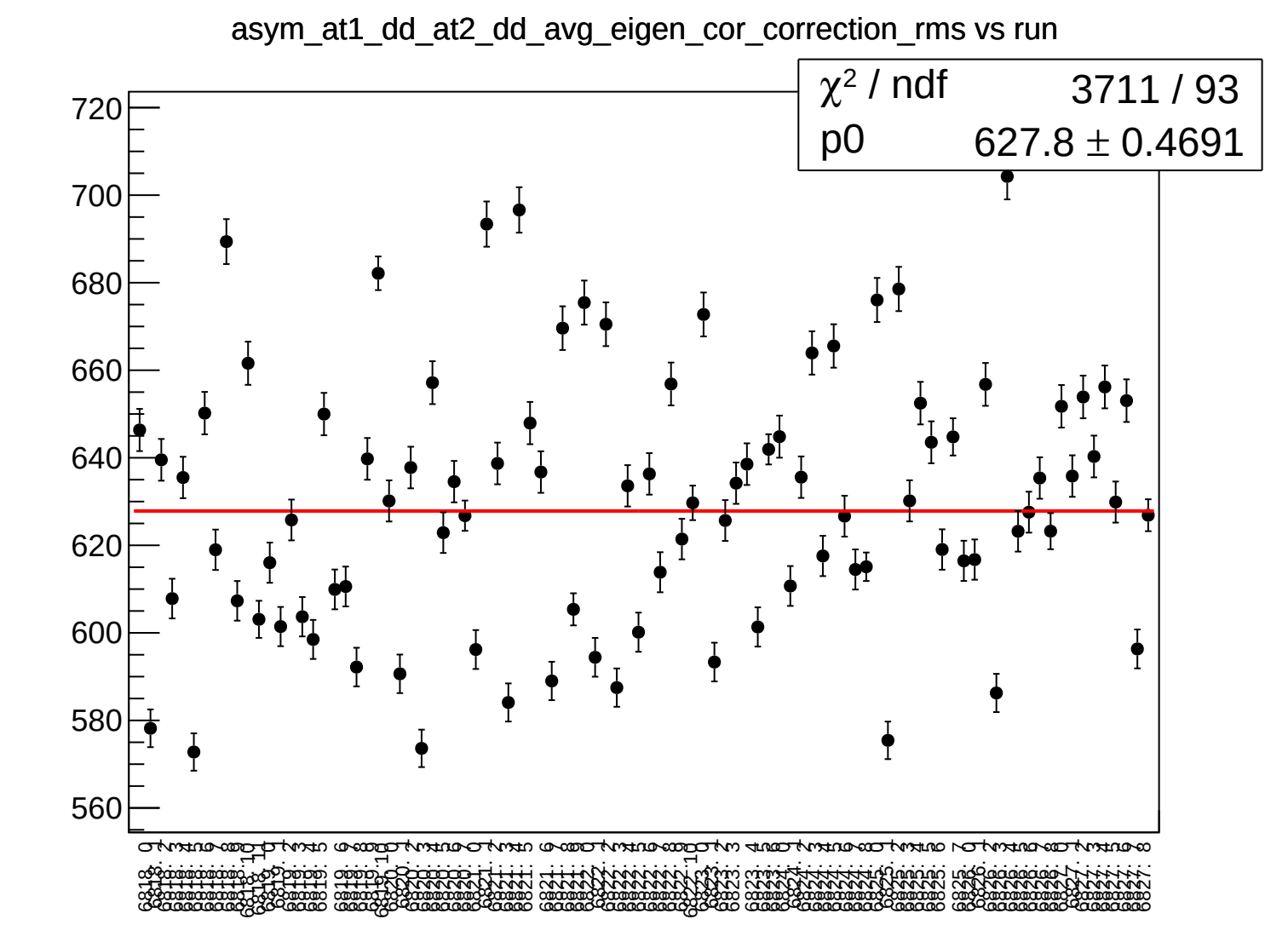

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 3711 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

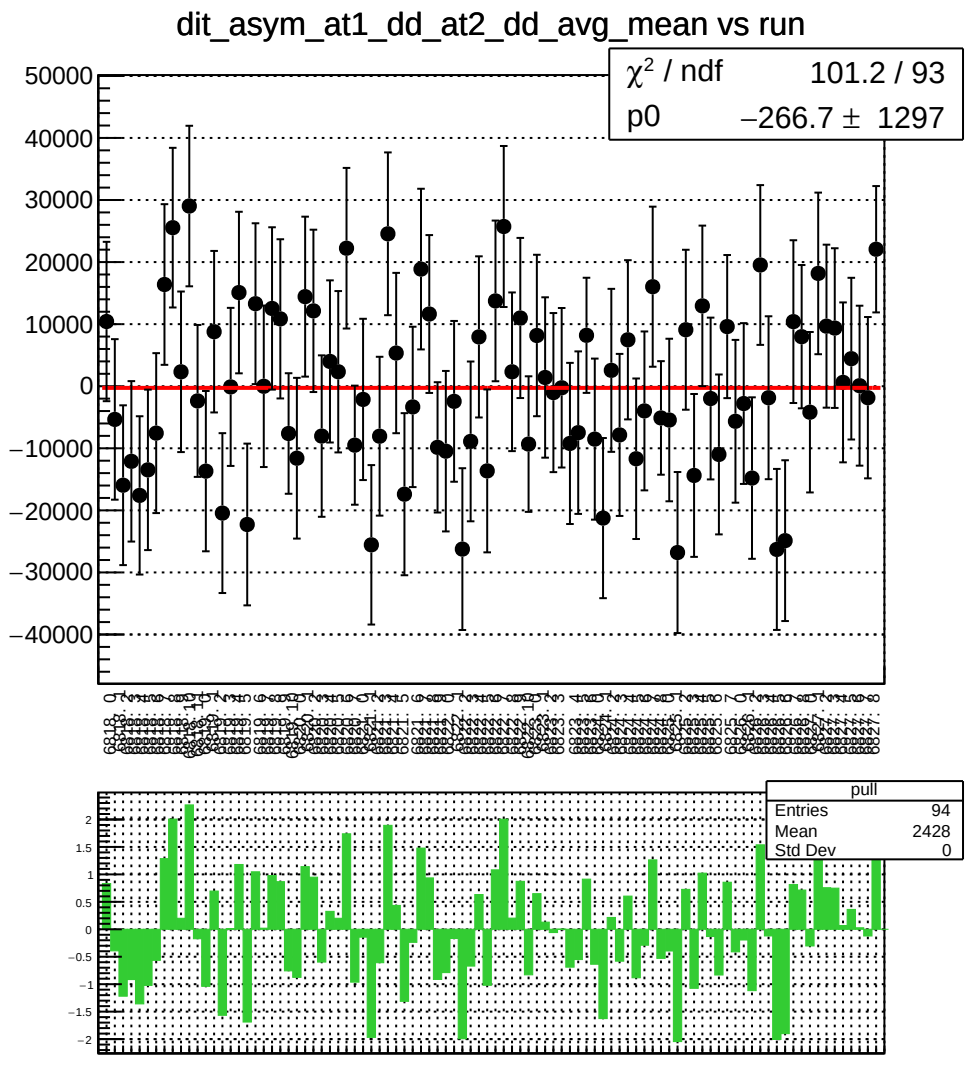

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.3 / 93
p0 −286.9 ± 1296
pull
Entries 94
Mean 3894
Std Dev 0

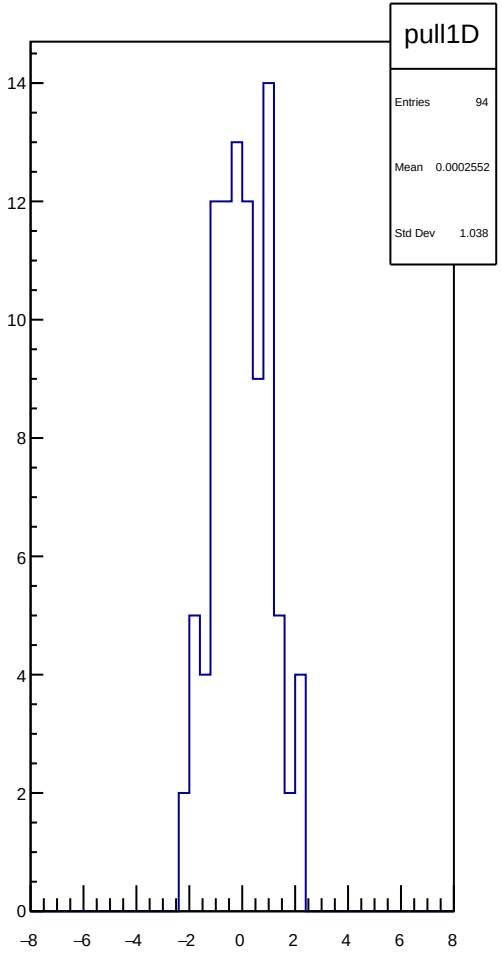

pull1D
Entries 94
Mean 0.0001818
Std Dev 1.038

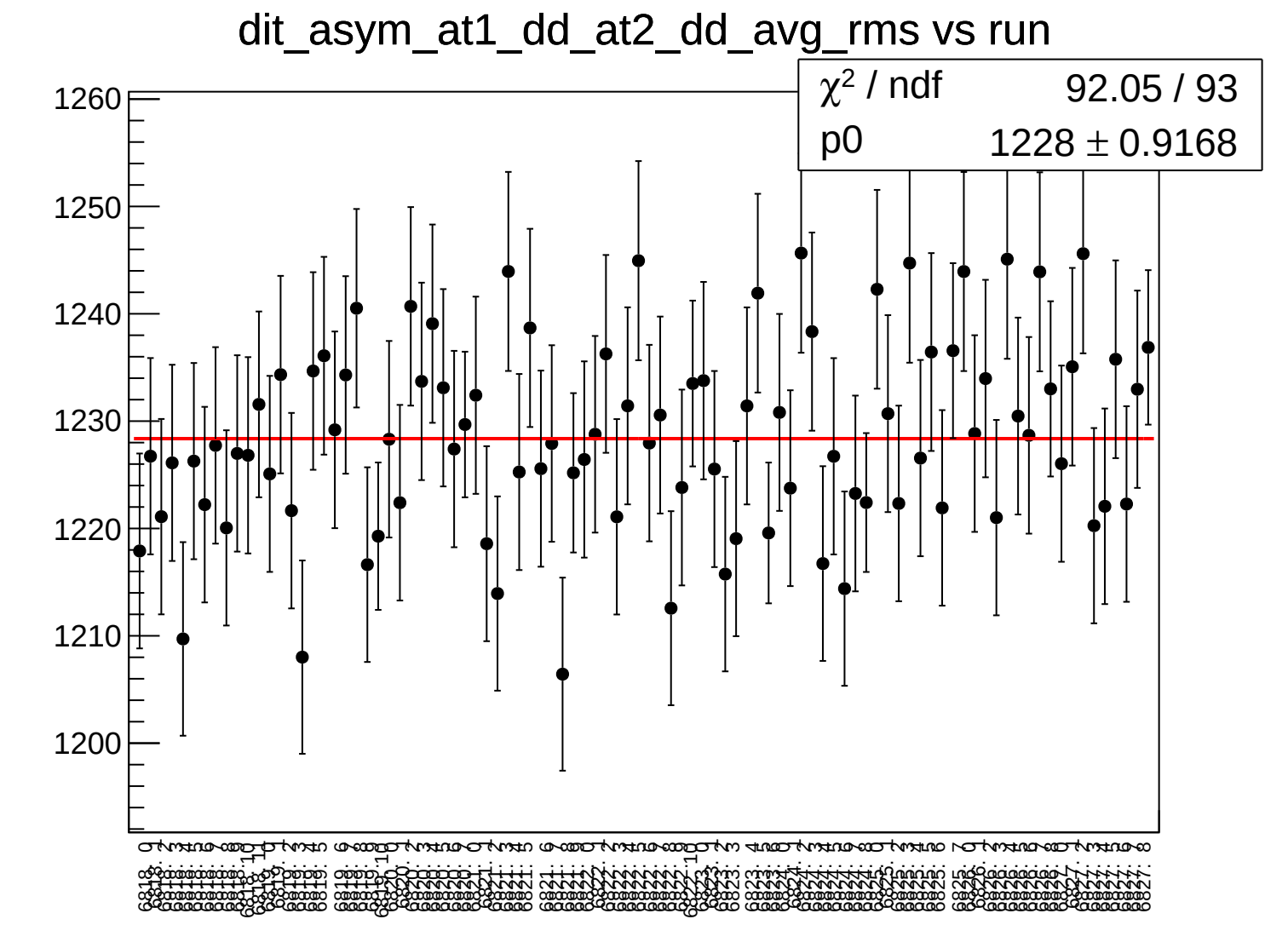

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 91.32 / 93
p0 1228 ± 0.9162
1250
1240
1230
1220
1210
1200

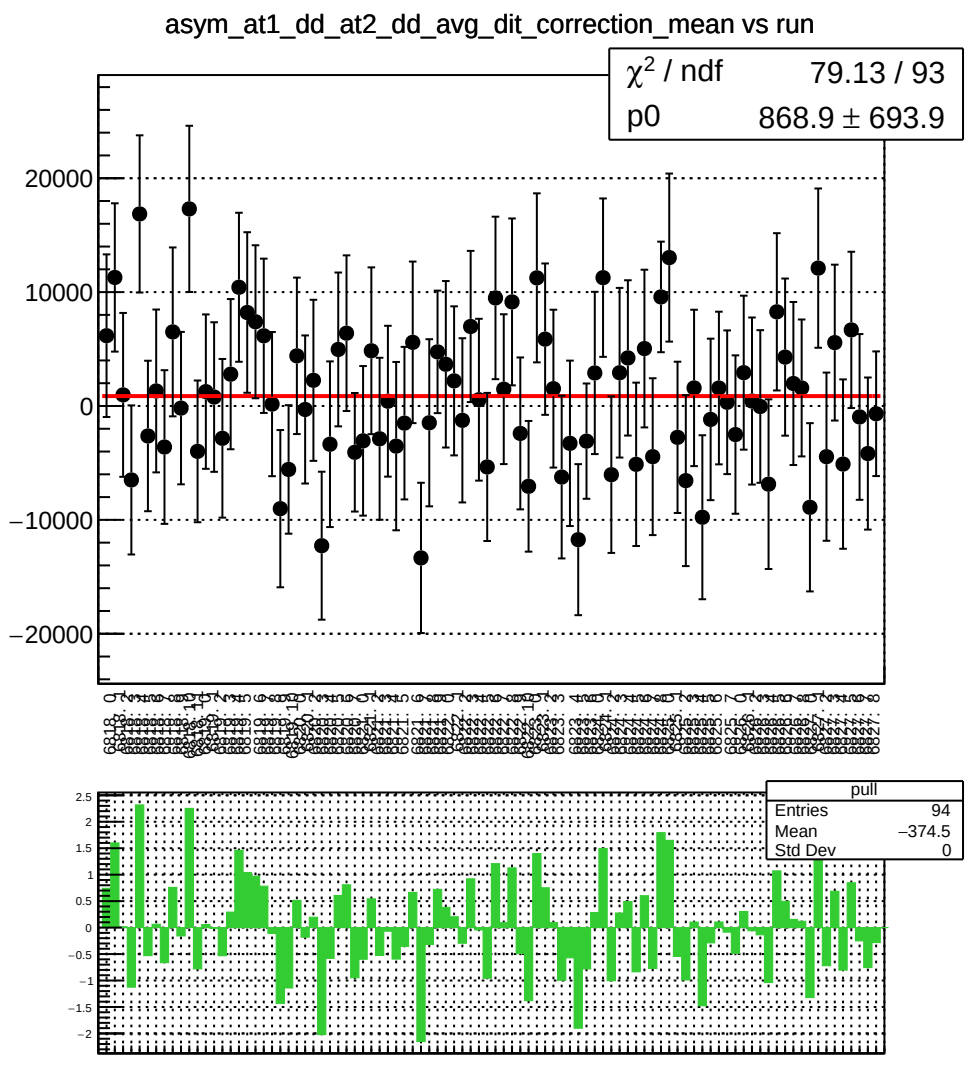

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.61 / 93
p0 836.5 ± 663.4
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −312.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.007205
Std Dev 0.9144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

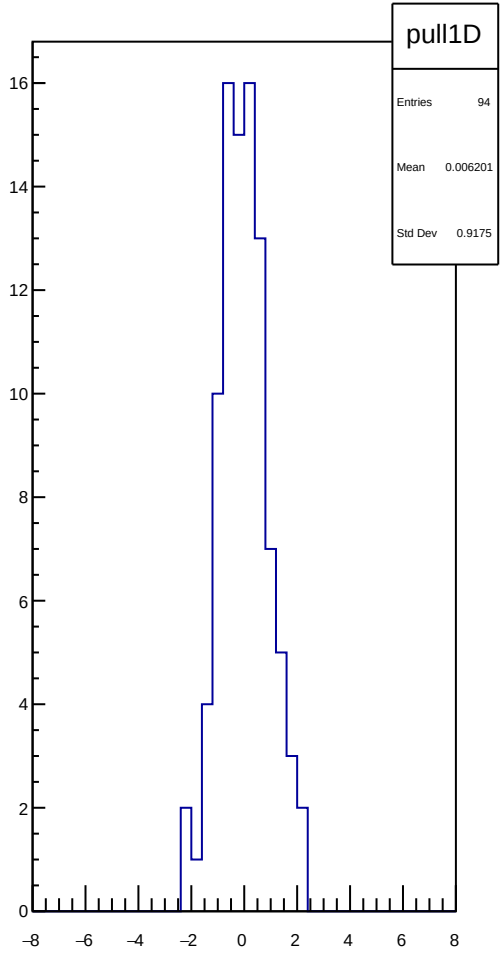

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3711 / 93
p0 627.8 ± 0.4691
720
700
680
660
640
620
600
580
560

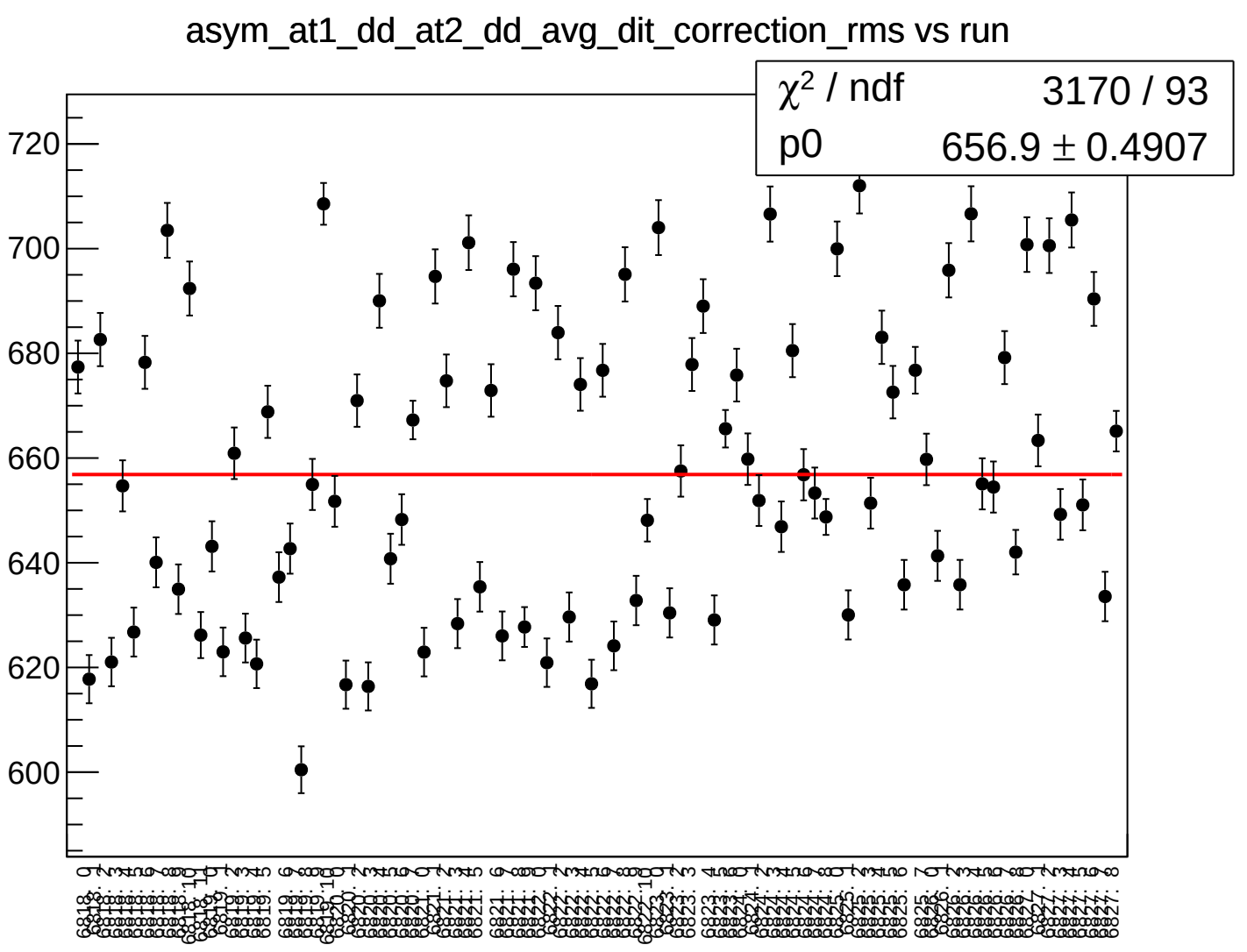

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.2 / 93
p0 −266.7 ± 1297
pull
Entries 94
Mean 2428
Std Dev 0

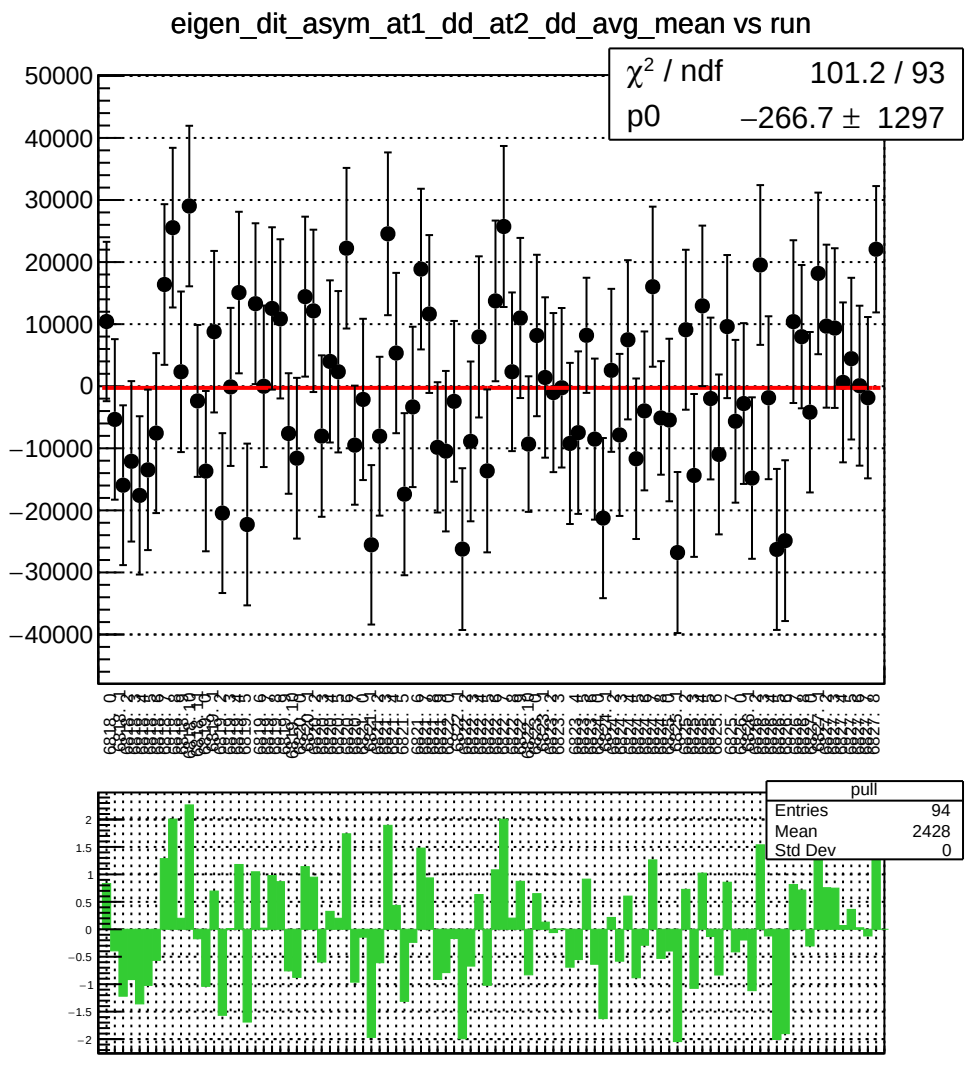

pull1D
Entries 94
Mean 0.0002552
Std Dev 1.038

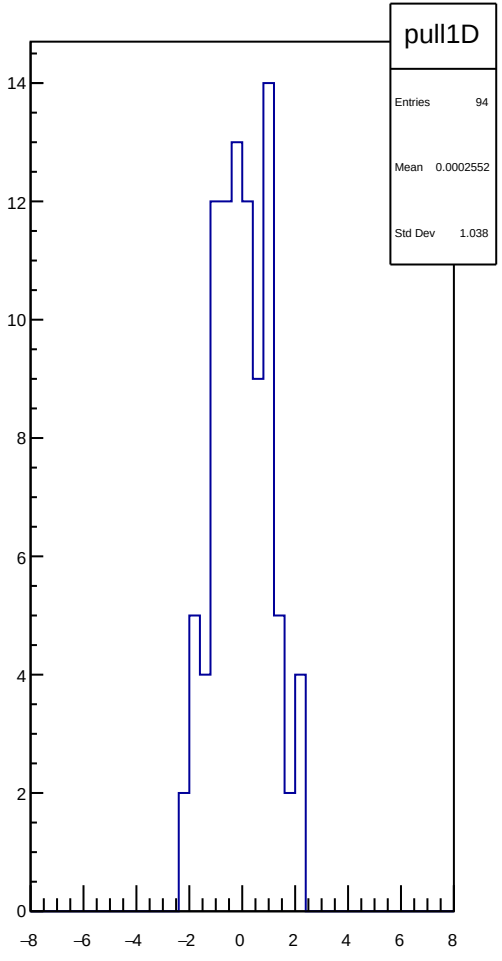

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.05 / 93
p0 1228 ± 0.9168
1260
1250
1240
1230
1220
1210
1200

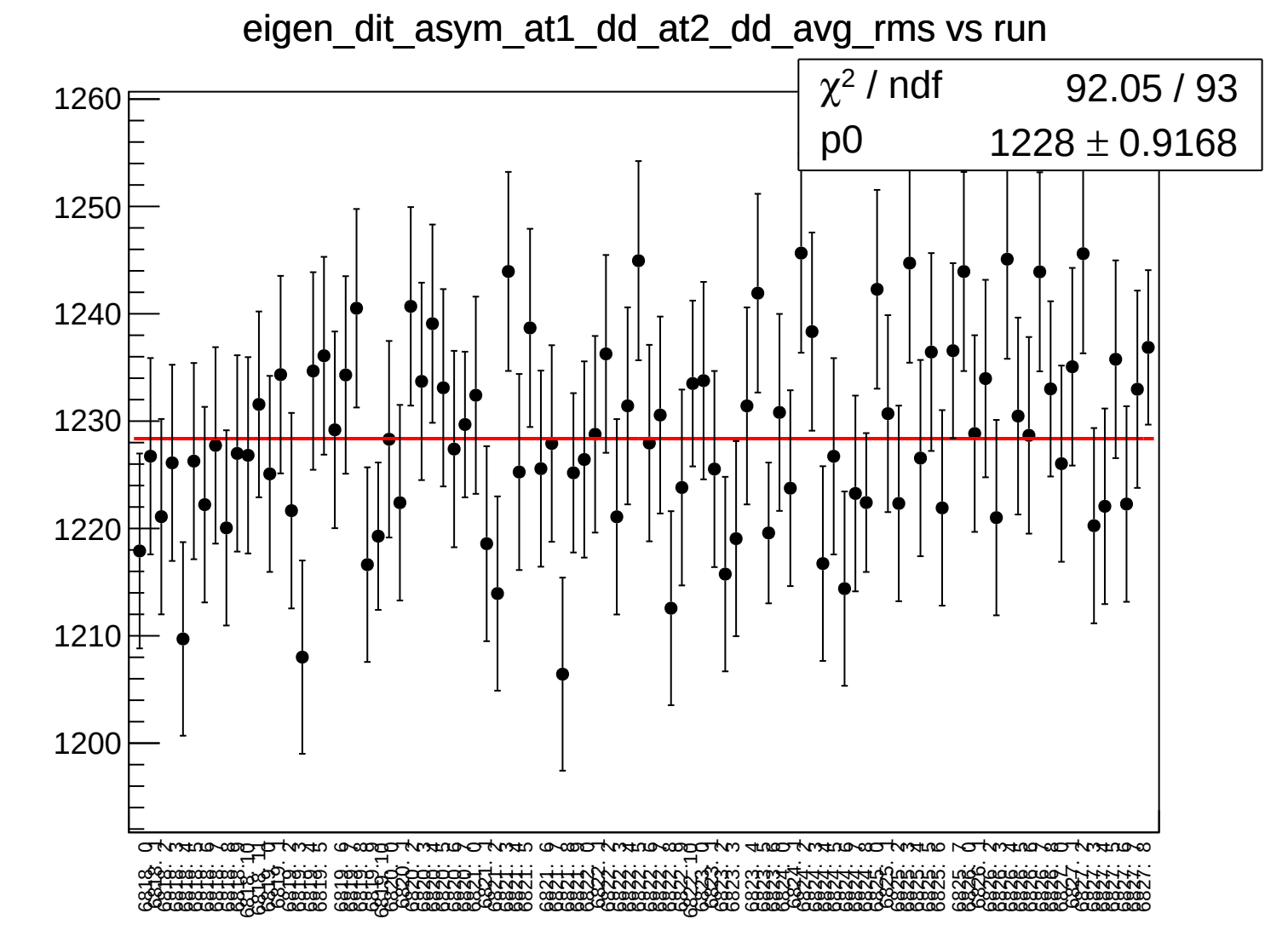

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 79.13 / 93
p0 868.9 ± 693.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

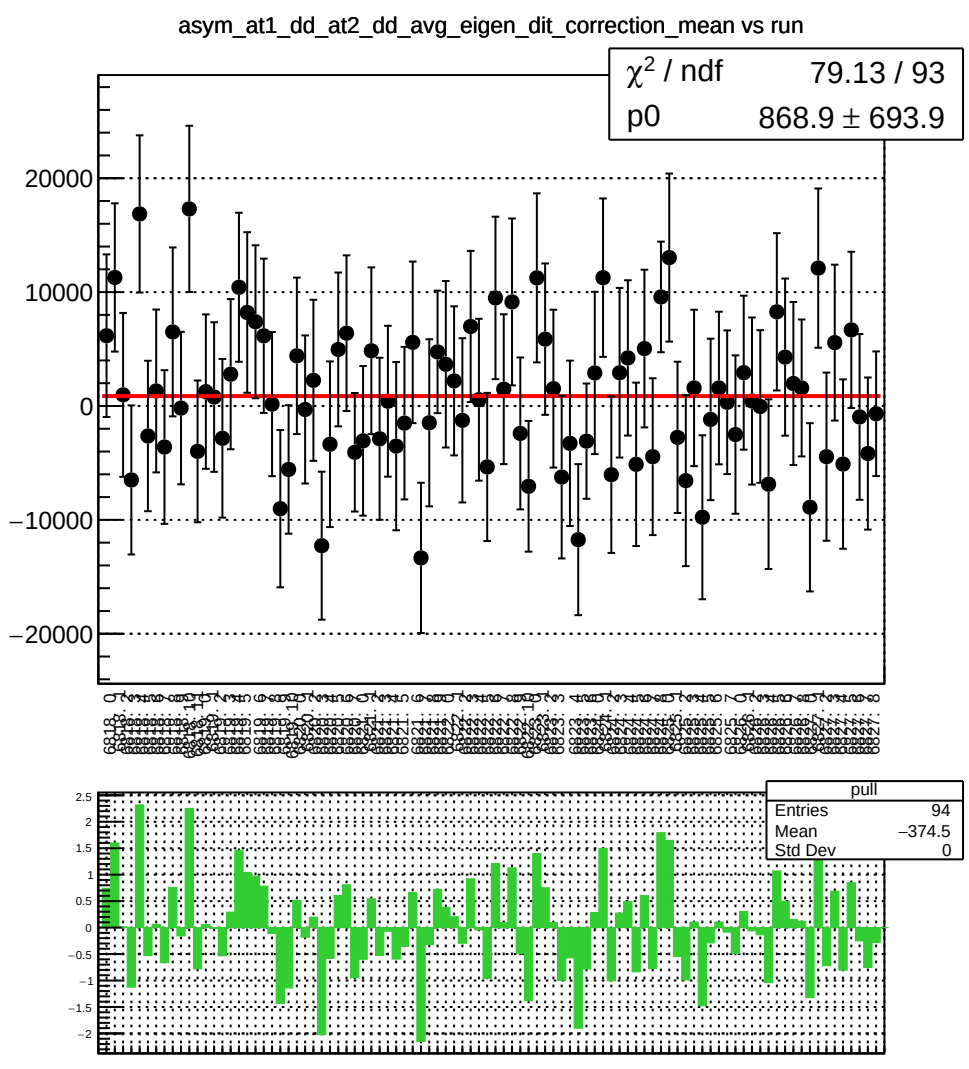

pull1D
Entries 94
Mean 0.006201
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

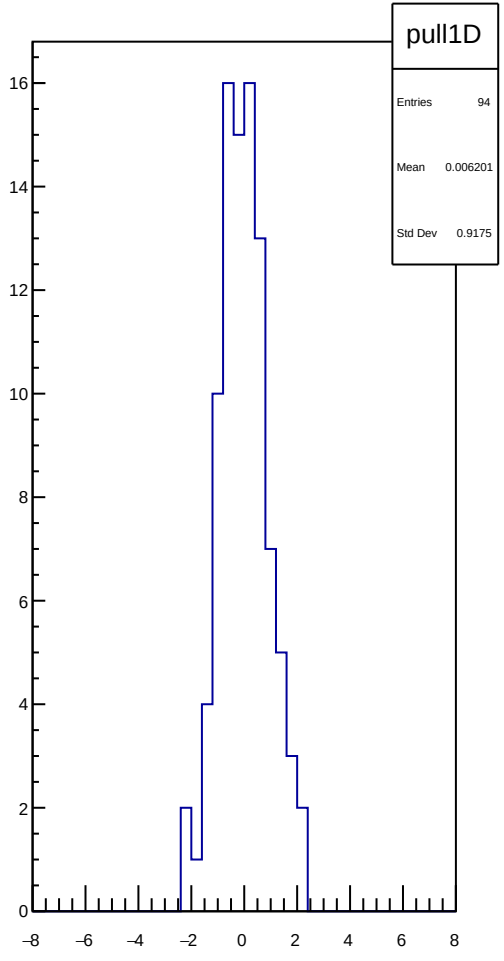

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 3170 / 93
p0 656.9 ± 0.4907
720
700
680
660
640
620
600

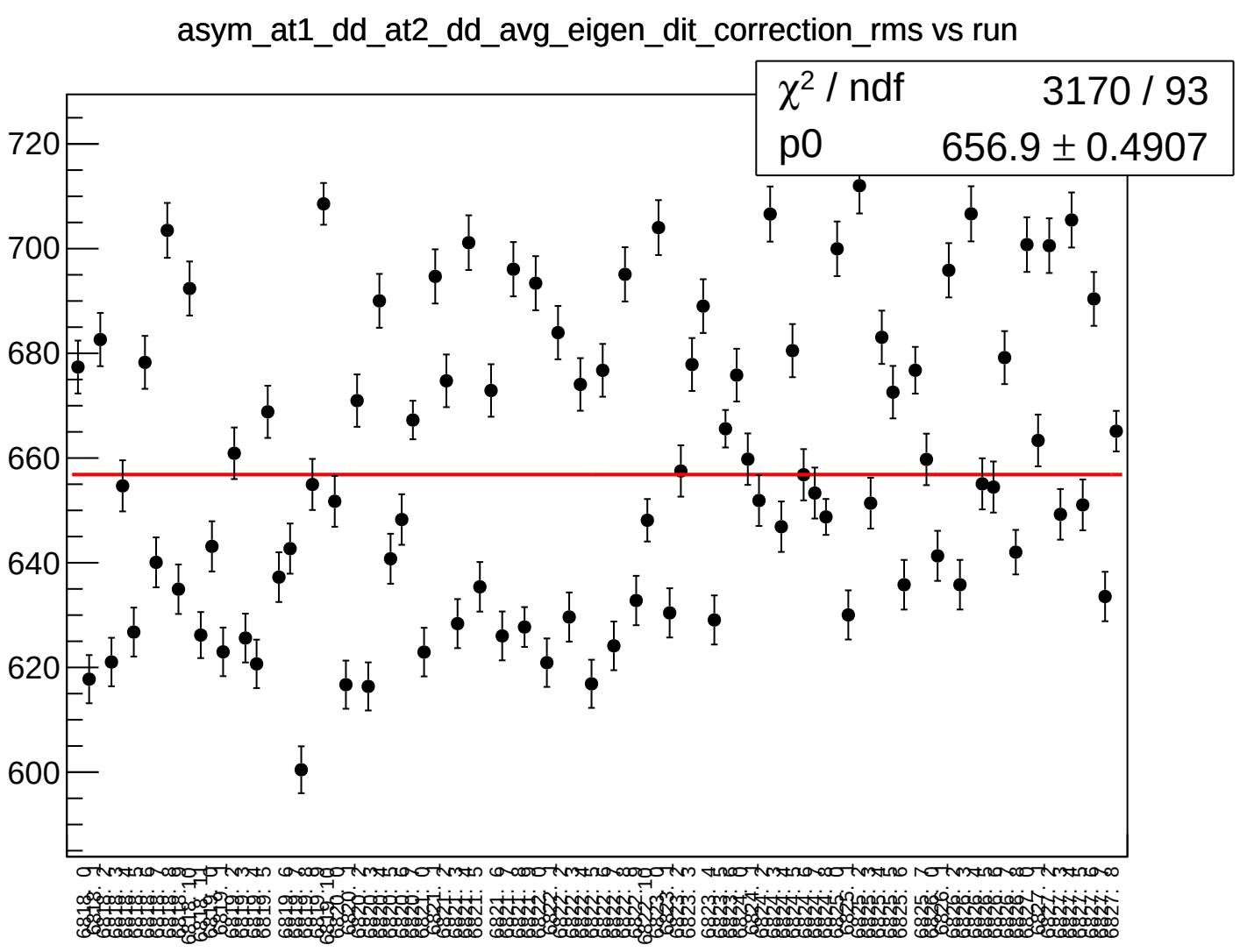

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 101.2 / 93
p0 −266.7 ± 1297
pull
Entries 94
Mean 2428
Std Dev 0

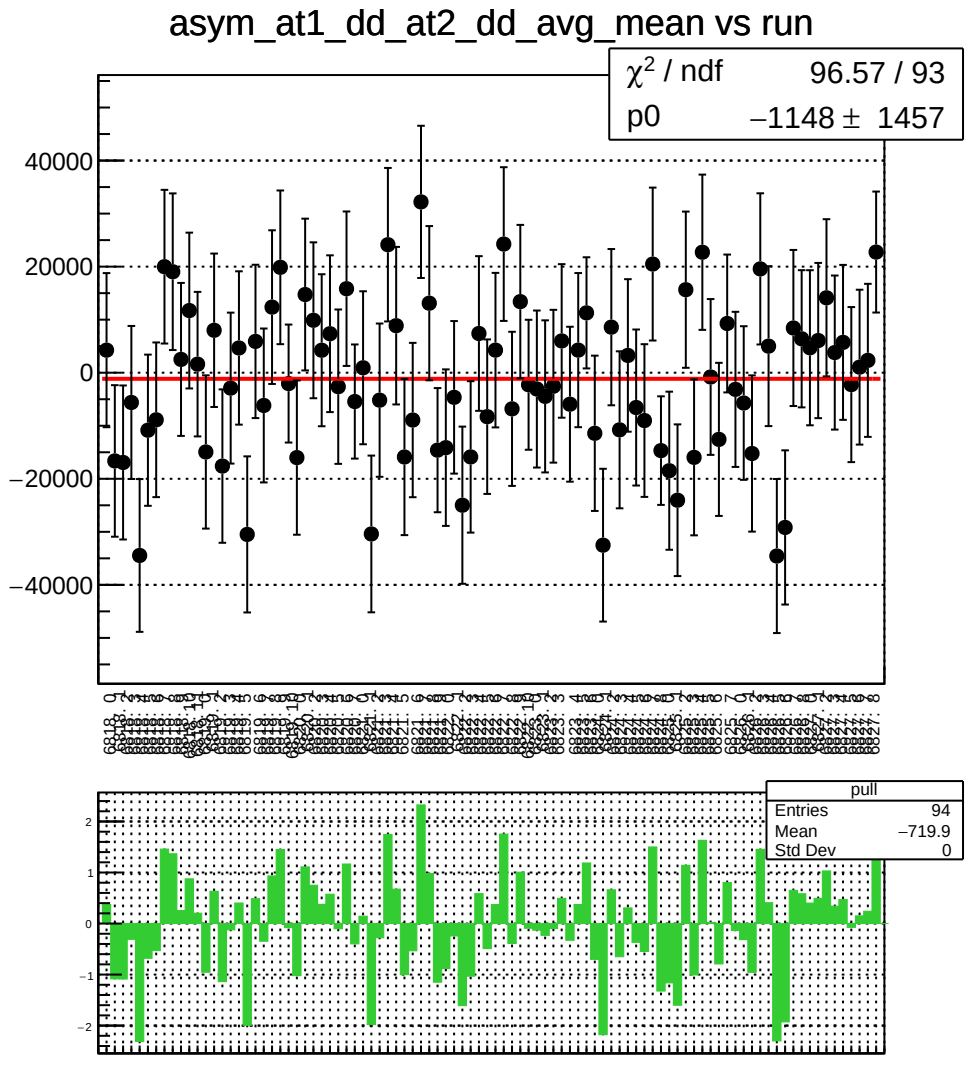

pull1D
Entries 94
Mean 0.0002552
Std Dev 1.038

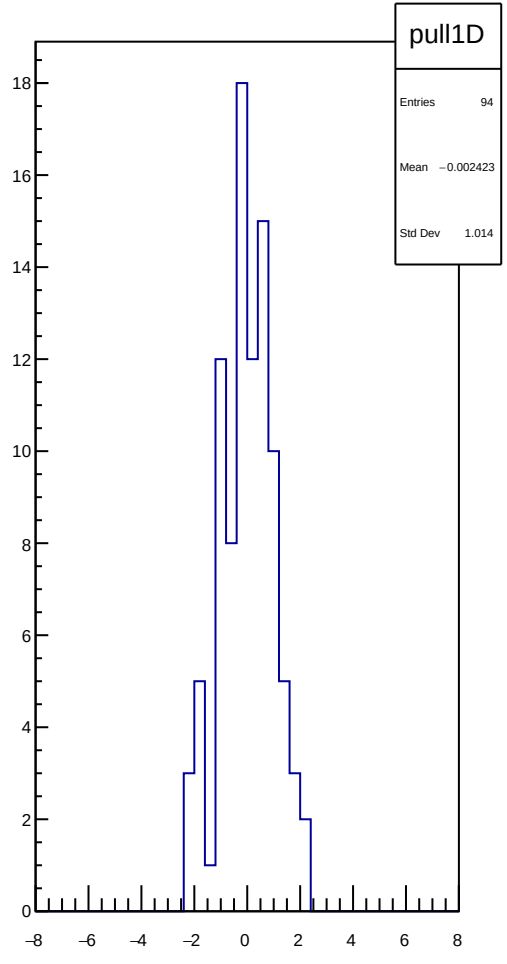

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 92.05 / 93
p0 1228 ± 0.9168
1260
1250
1240
1230
1220
1210
1200

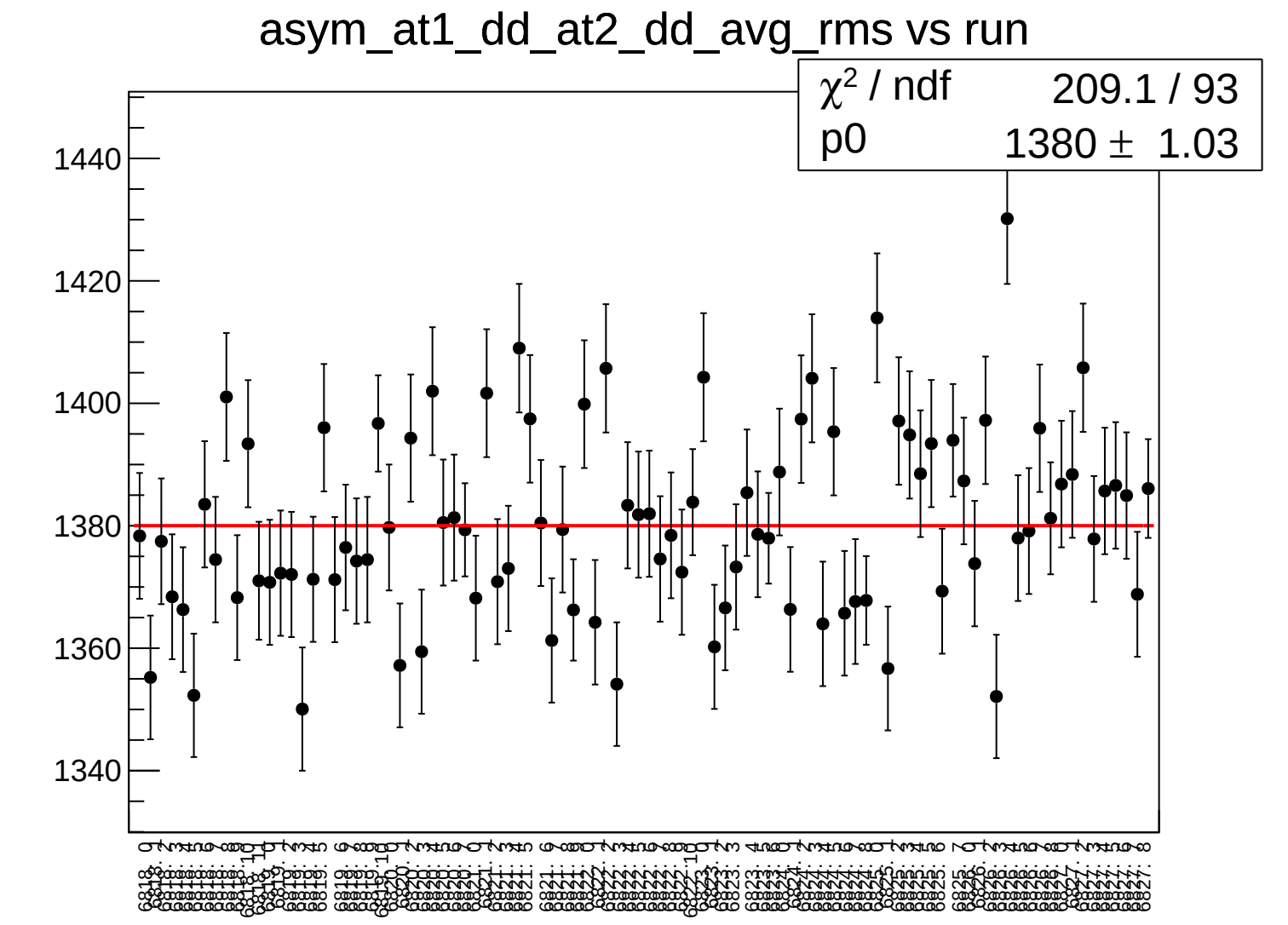

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.13 / 93
p0 868.9 ± 693.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −374.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

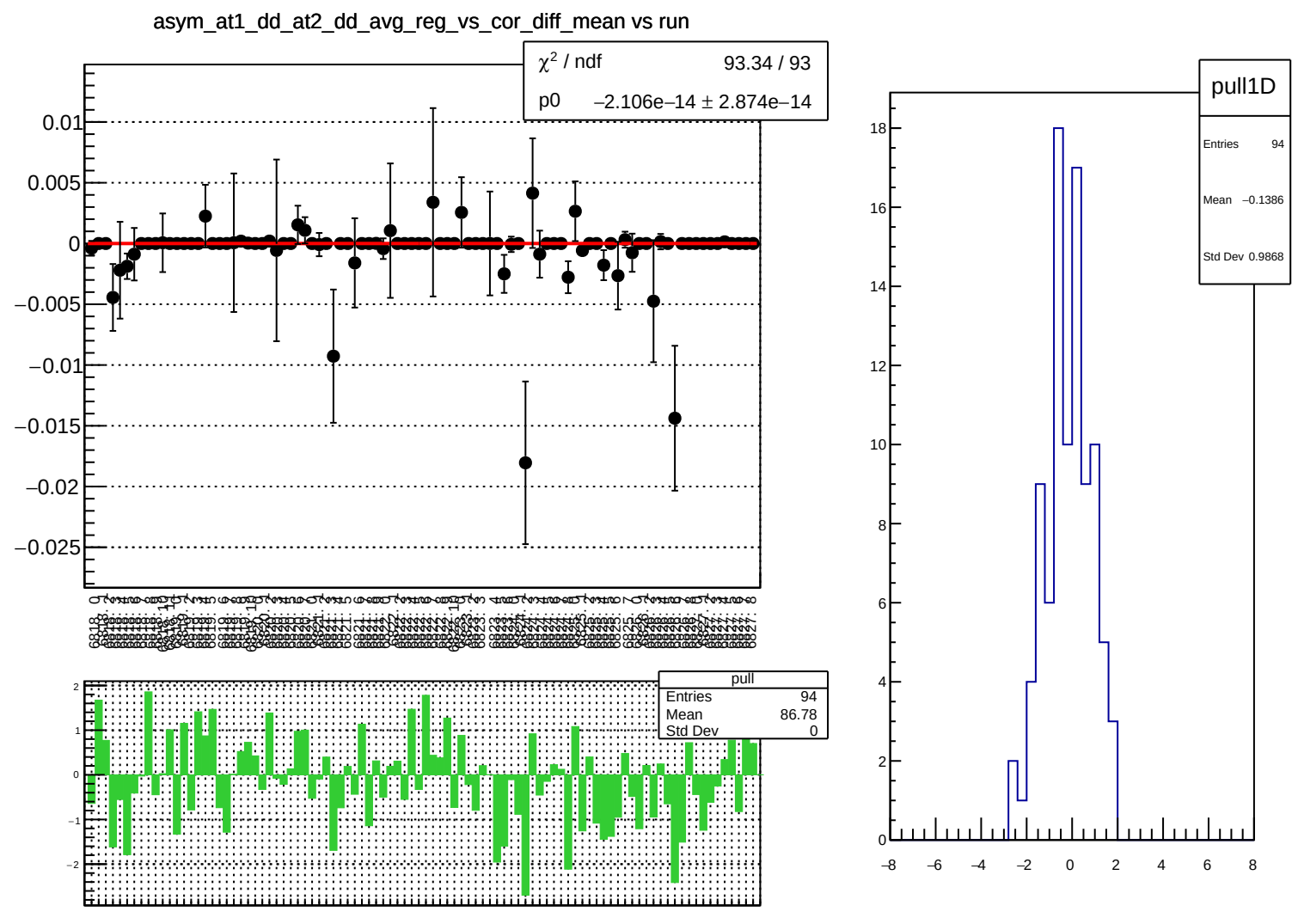

pull1D
Entries 94
Mean 0.006201
Std Dev 0.9175
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

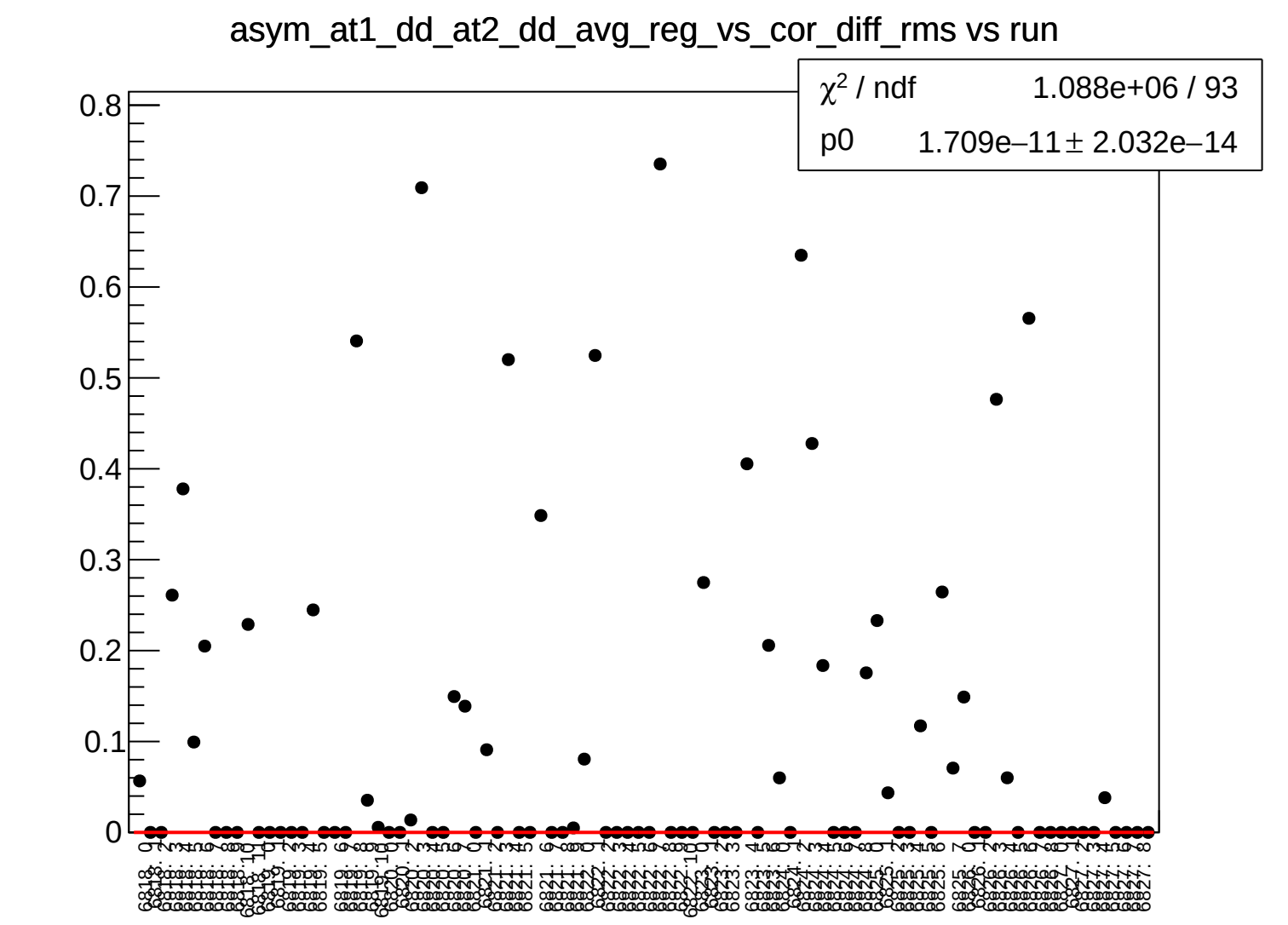

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3170 / 93
p0 656.9 ± 0.4907
720
700
680
660
640
620
600

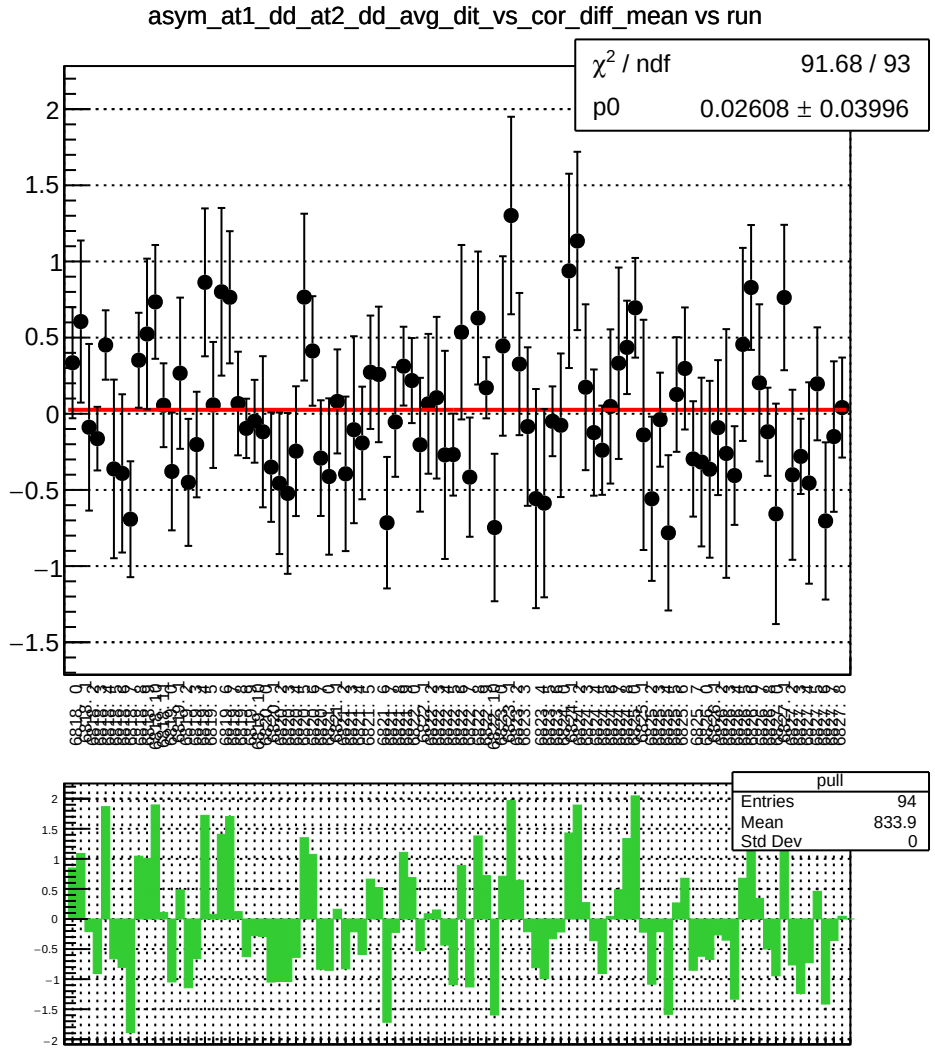

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 96.57 / 93
p0 −1148 ± 1457
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −719.9
Std Dev 0
2
1
0
−1
−2

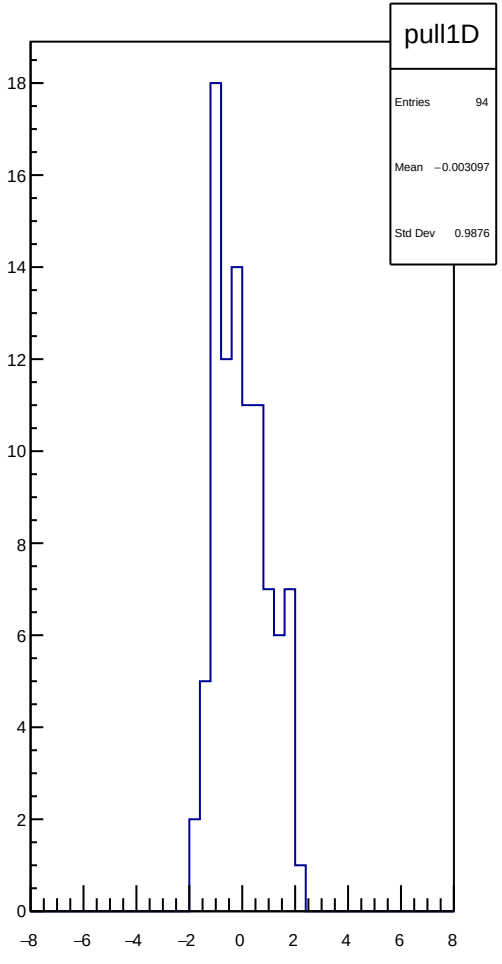

pull1D
Entries 94
Mean −0.002423
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

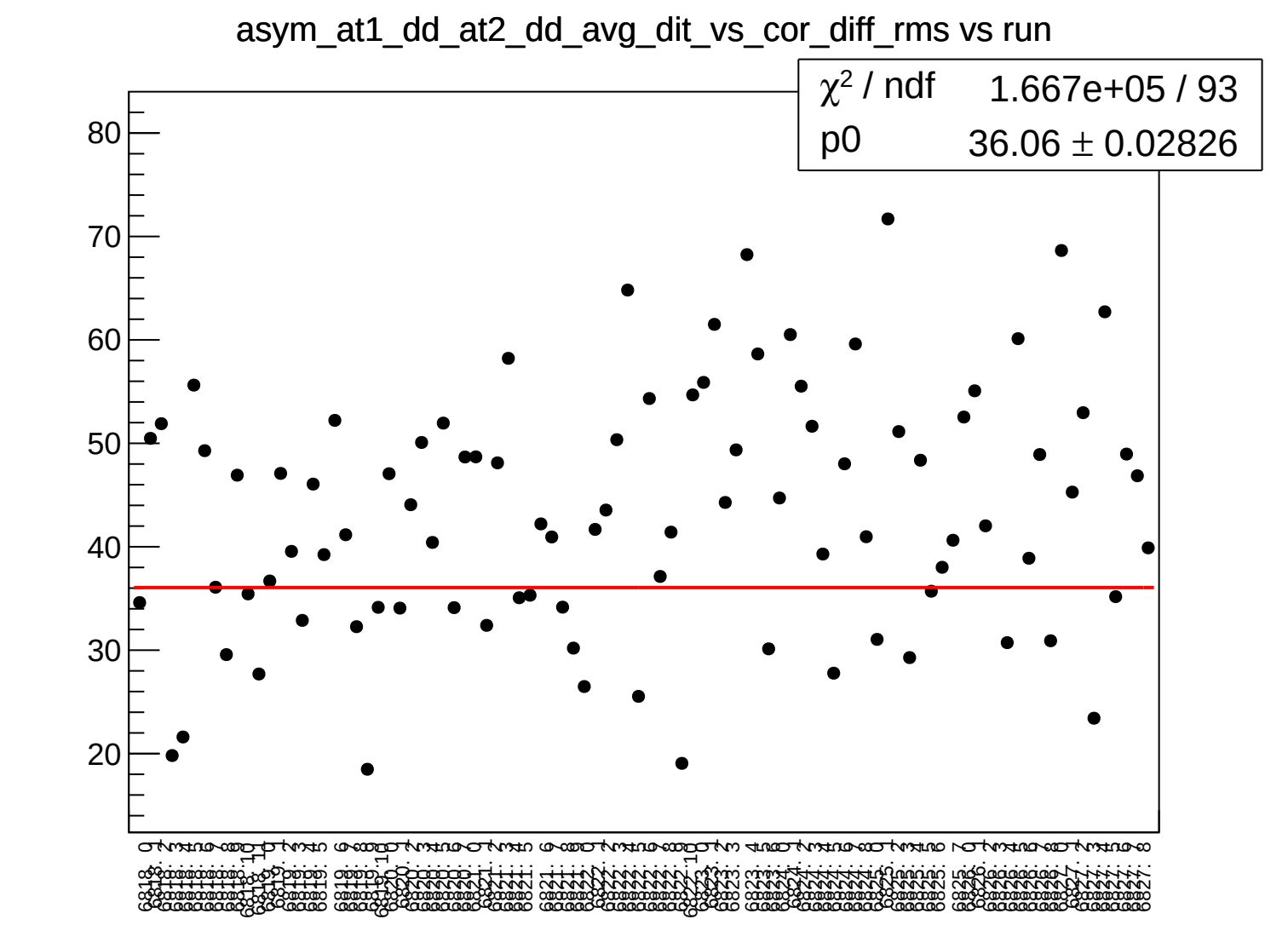

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 209.1 / 93
p0 1380 ± 1.03
1440
1420
1400
1380
1360
1340

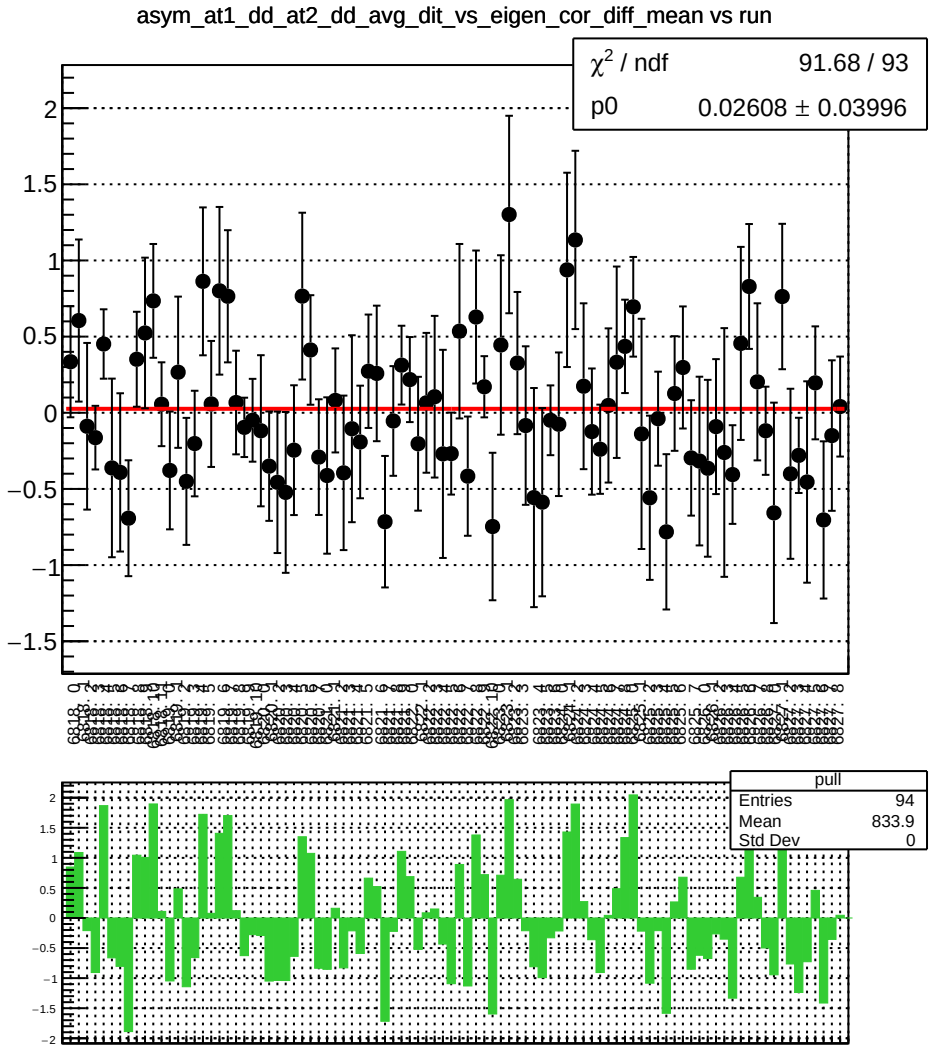

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.34 / 93
p0 −2.106e−14 ± 2.874e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 94
Mean 86.78
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1386
Std Dev 0.9868
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

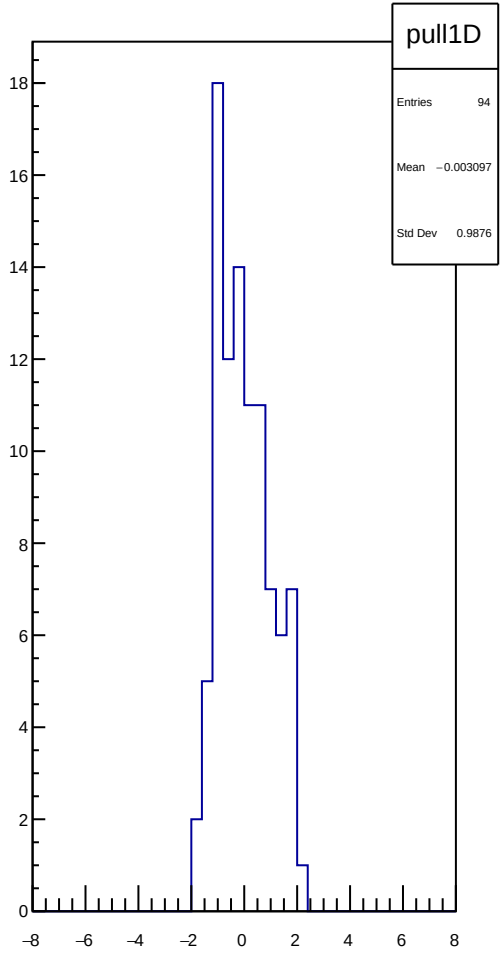

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 93
p0 1.709e−11 ± 2.032e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

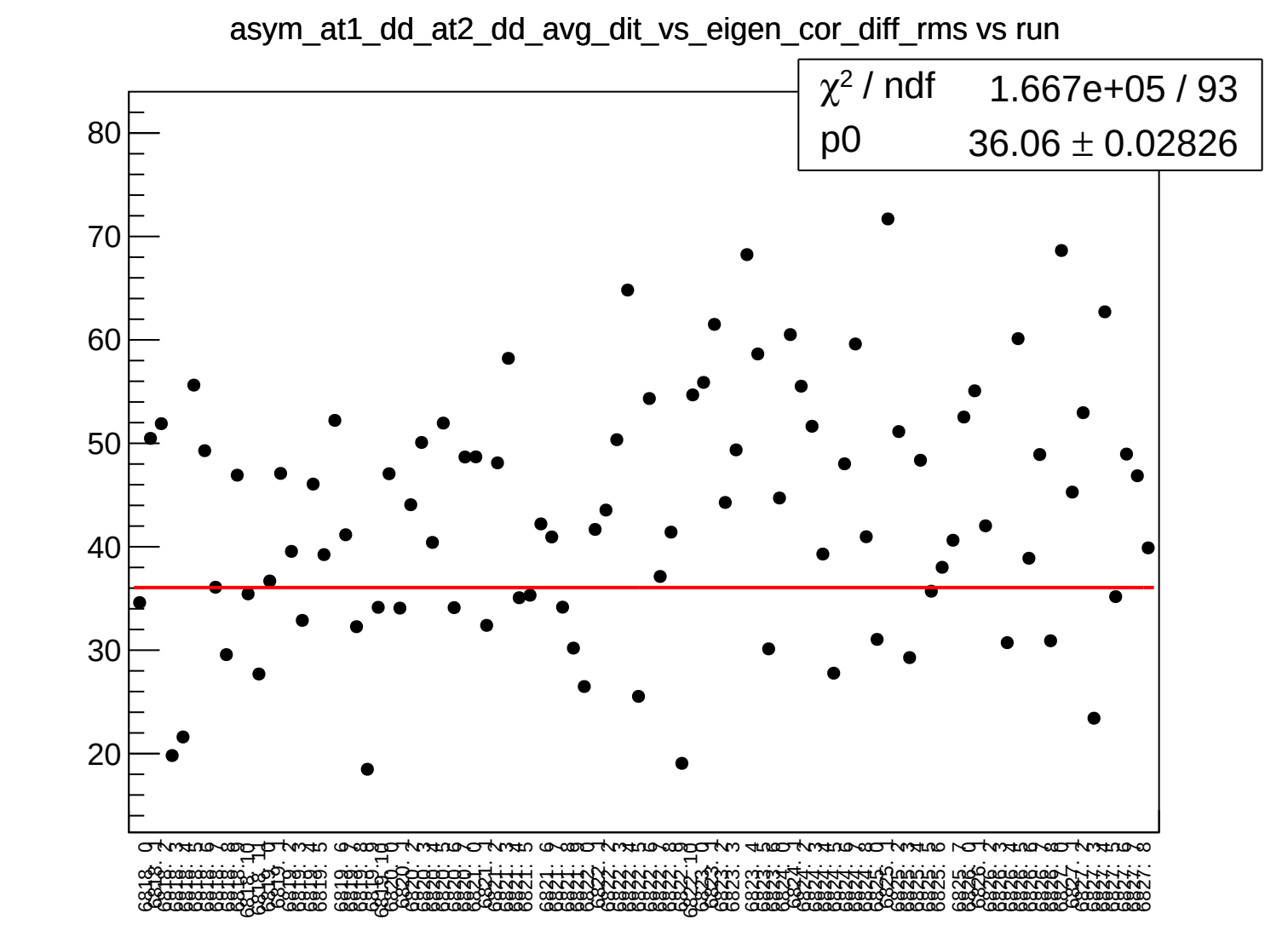

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02608 ± 0.03996
pull
Entries 94
Mean 833.9
Std Dev 0

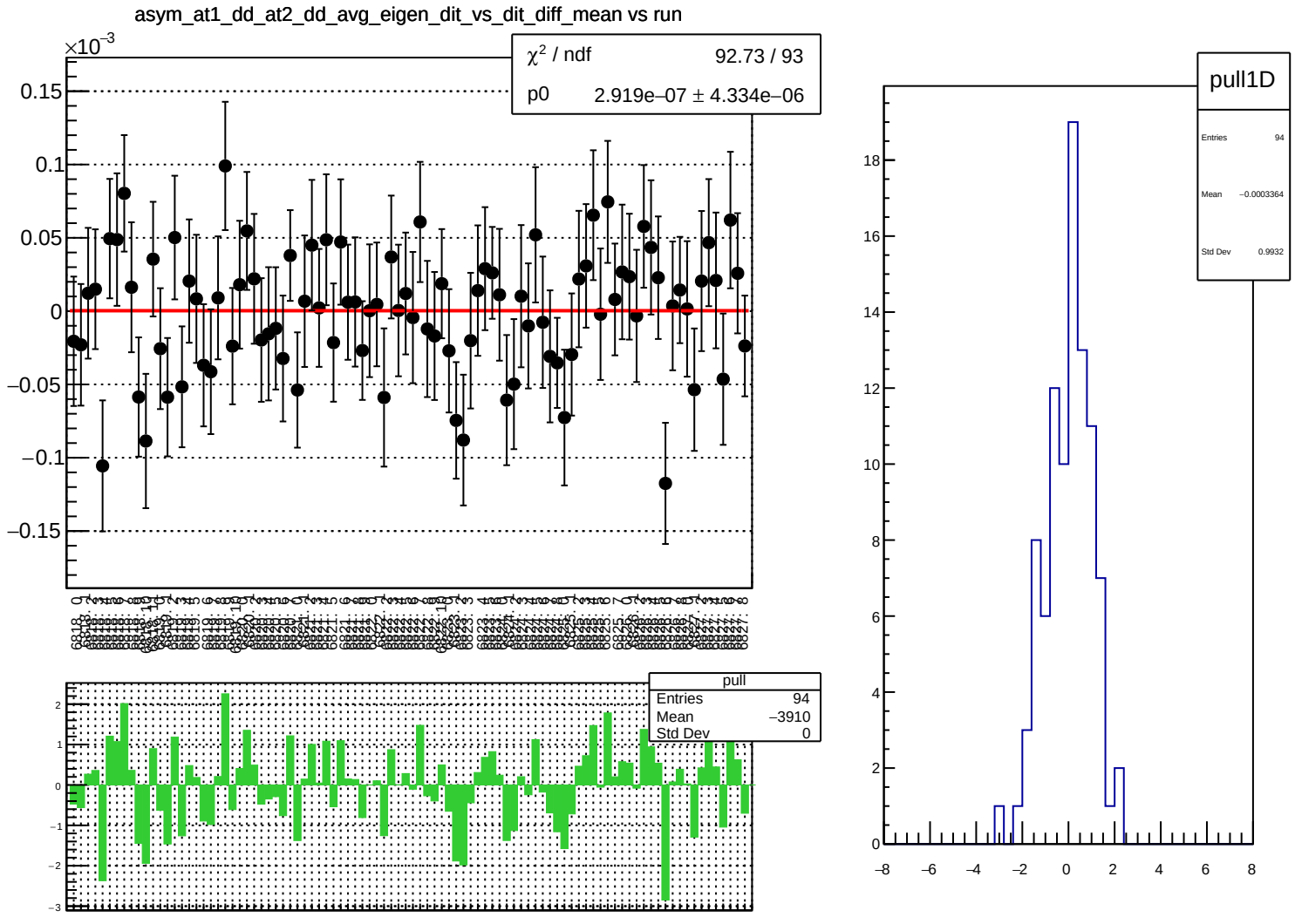

pull1D
Entries 94
Mean −0.003097
Std Dev 0.9876

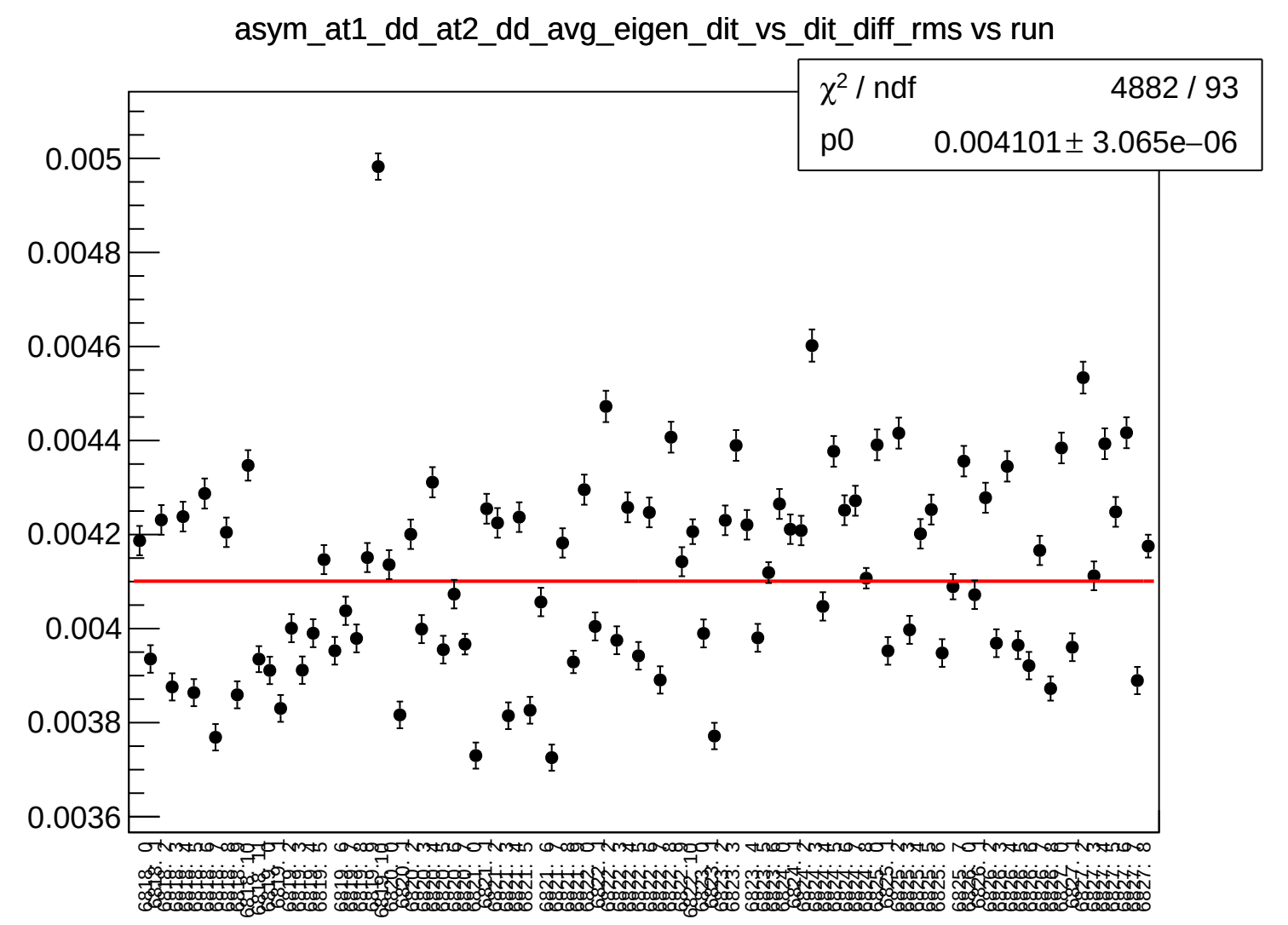

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.667e+05 / 93
p0 36.06 ± 0.02826
80
70
60
50
40
30
20

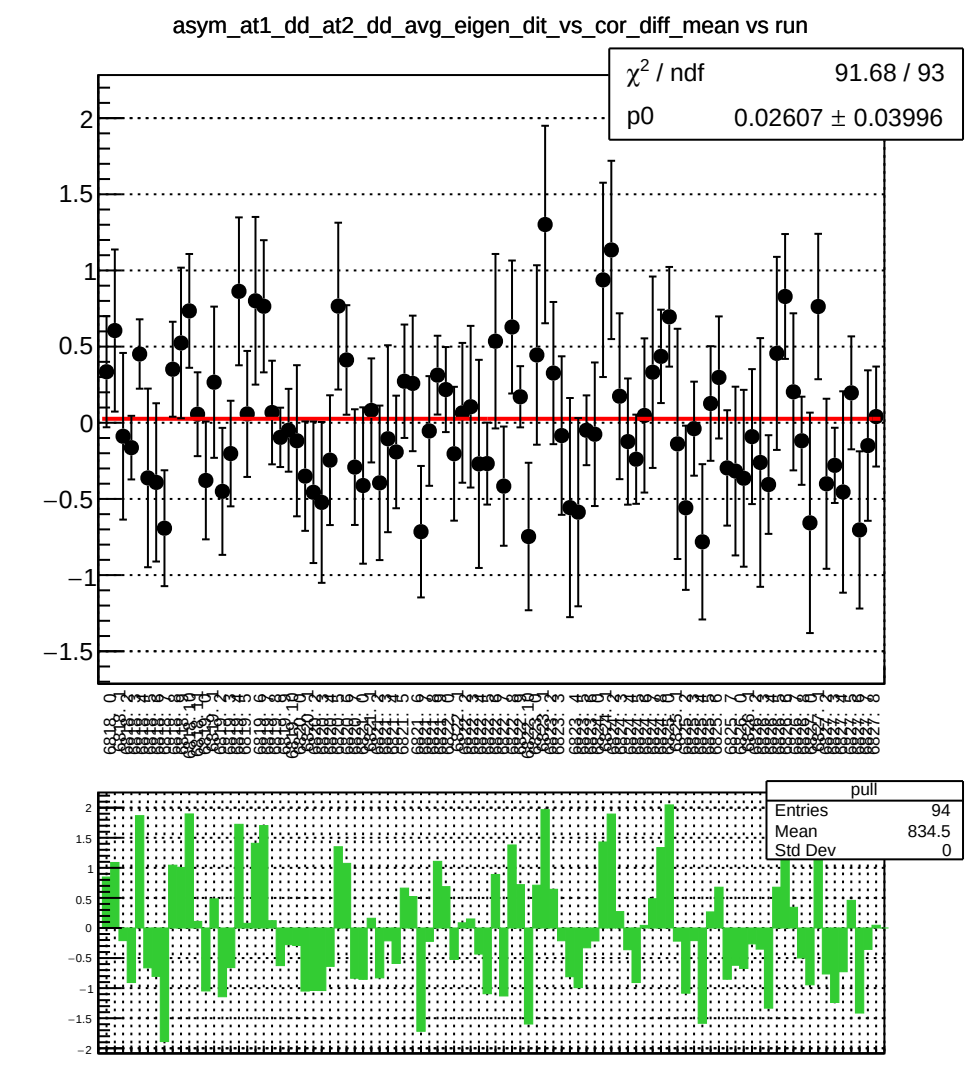

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02608 ± 0.03996
pull
Entries 94
Mean 833.9
Std Dev 0

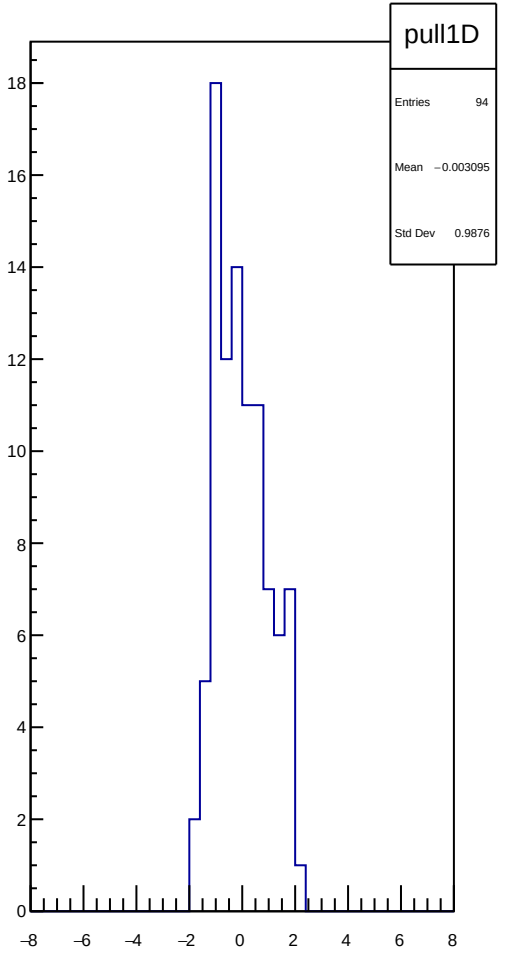

pull1D
Entries 94
Mean −0.003097
Std Dev 0.9876

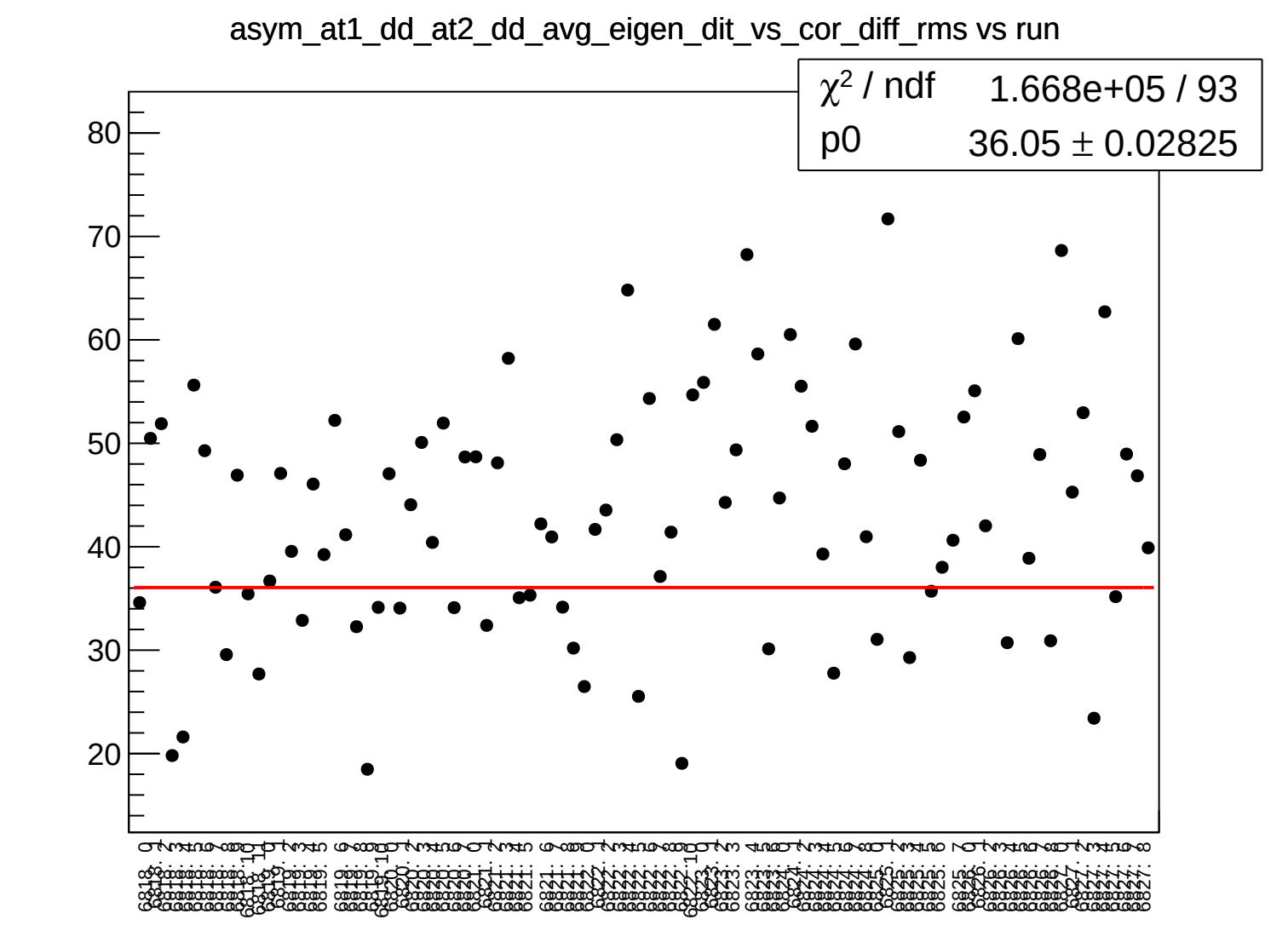

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.667e+05 / 93
p0 36.06 ± 0.02826
80
70
60
50
40
30
20

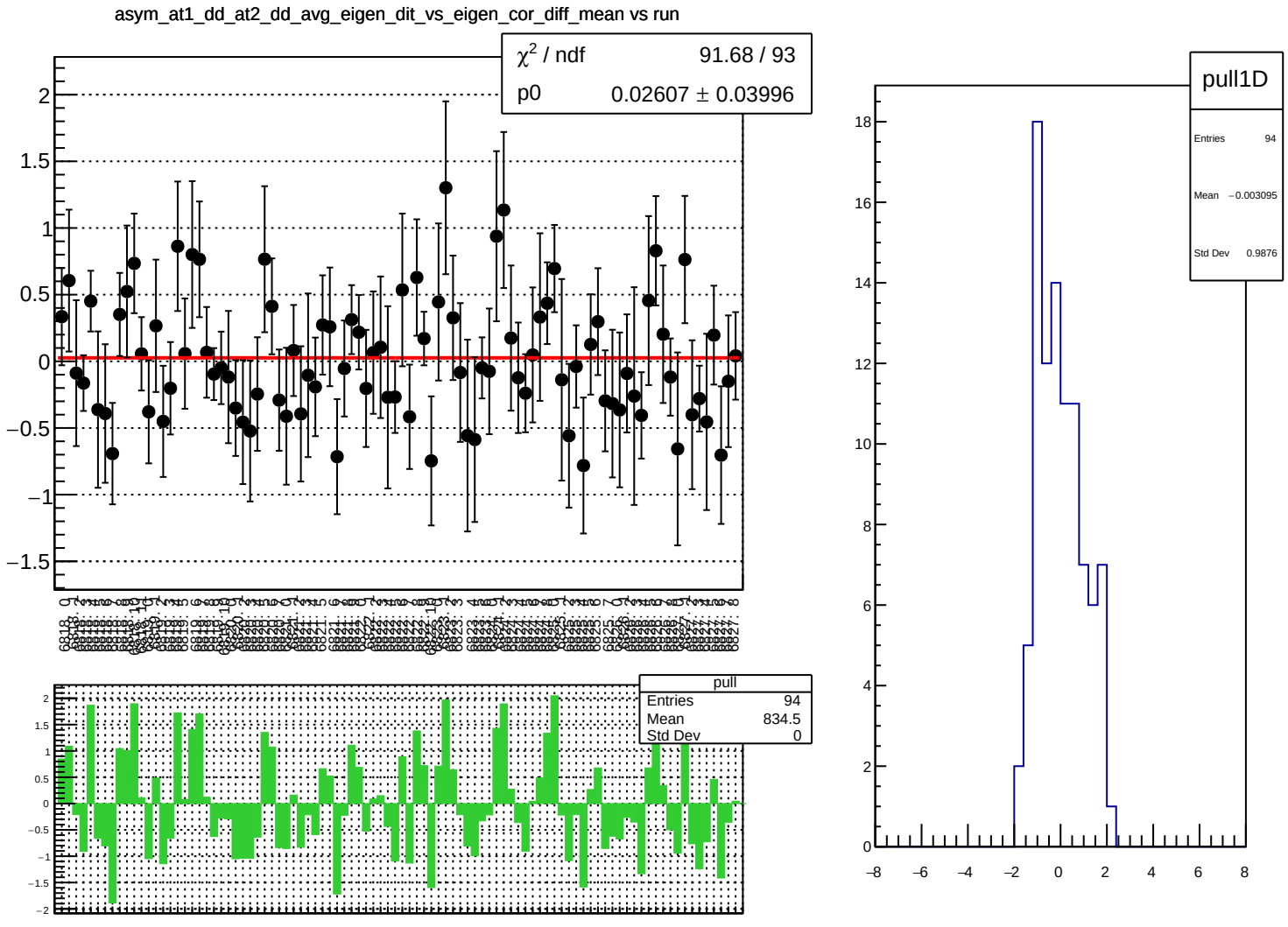

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.73 / 93
p0 2.919e−07 ± 4.334e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −3910
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0003364
Std Dev 0.9932
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

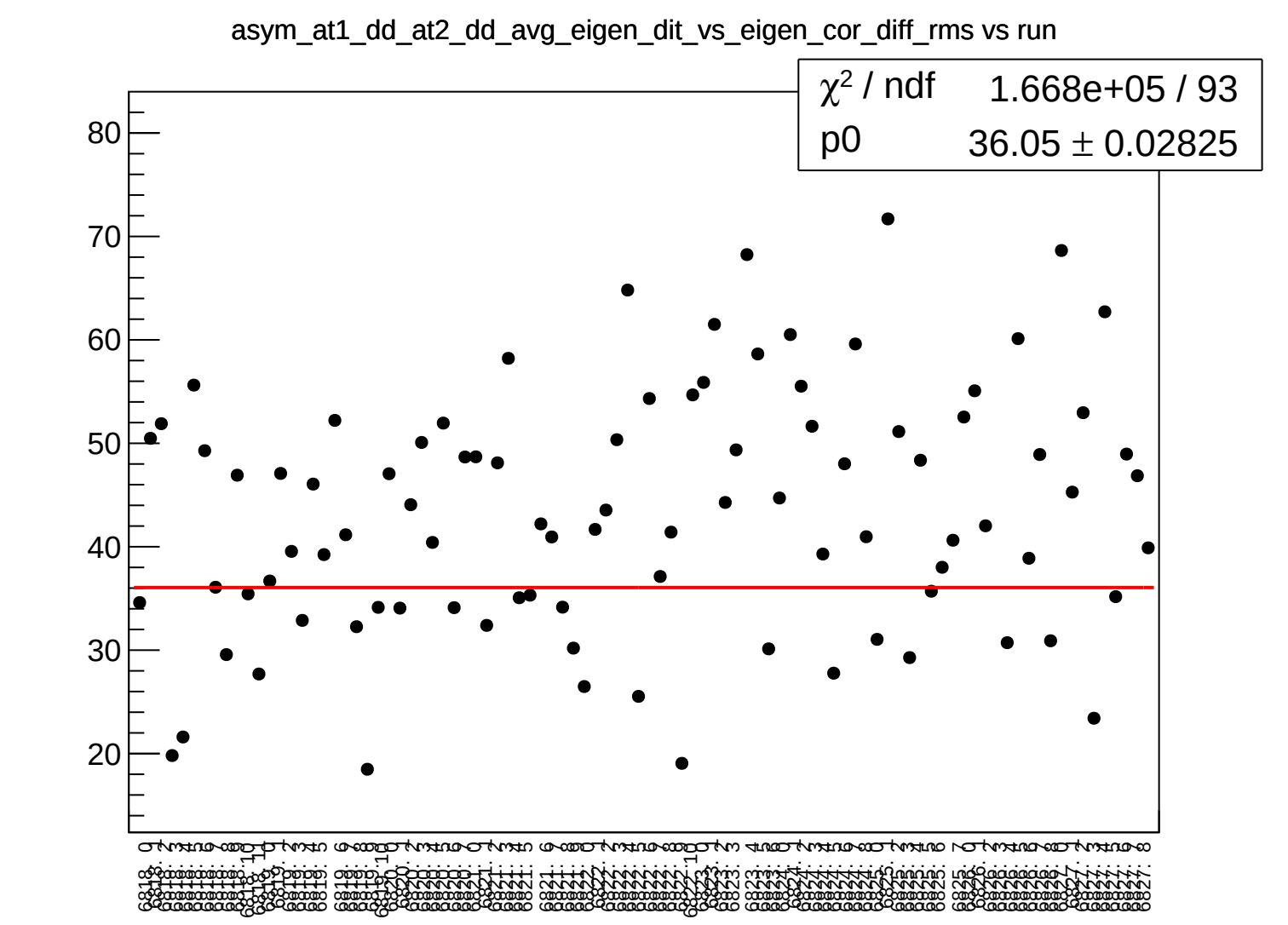

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4882 / 93
p0 0.004101 ± 3.065e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

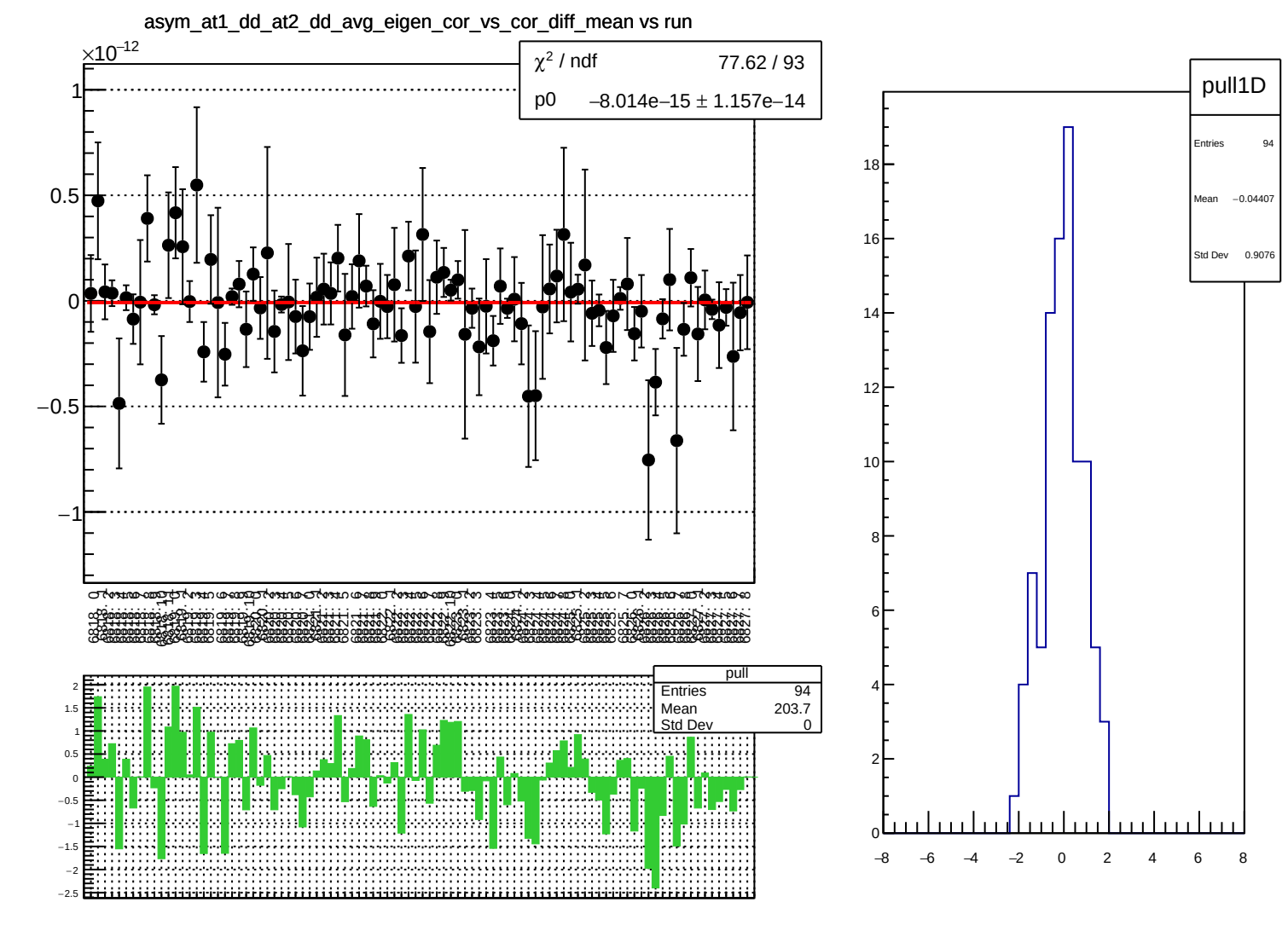

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02607 ± 0.03996
pull
Entries 94
Mean 834.5
Std Dev 0

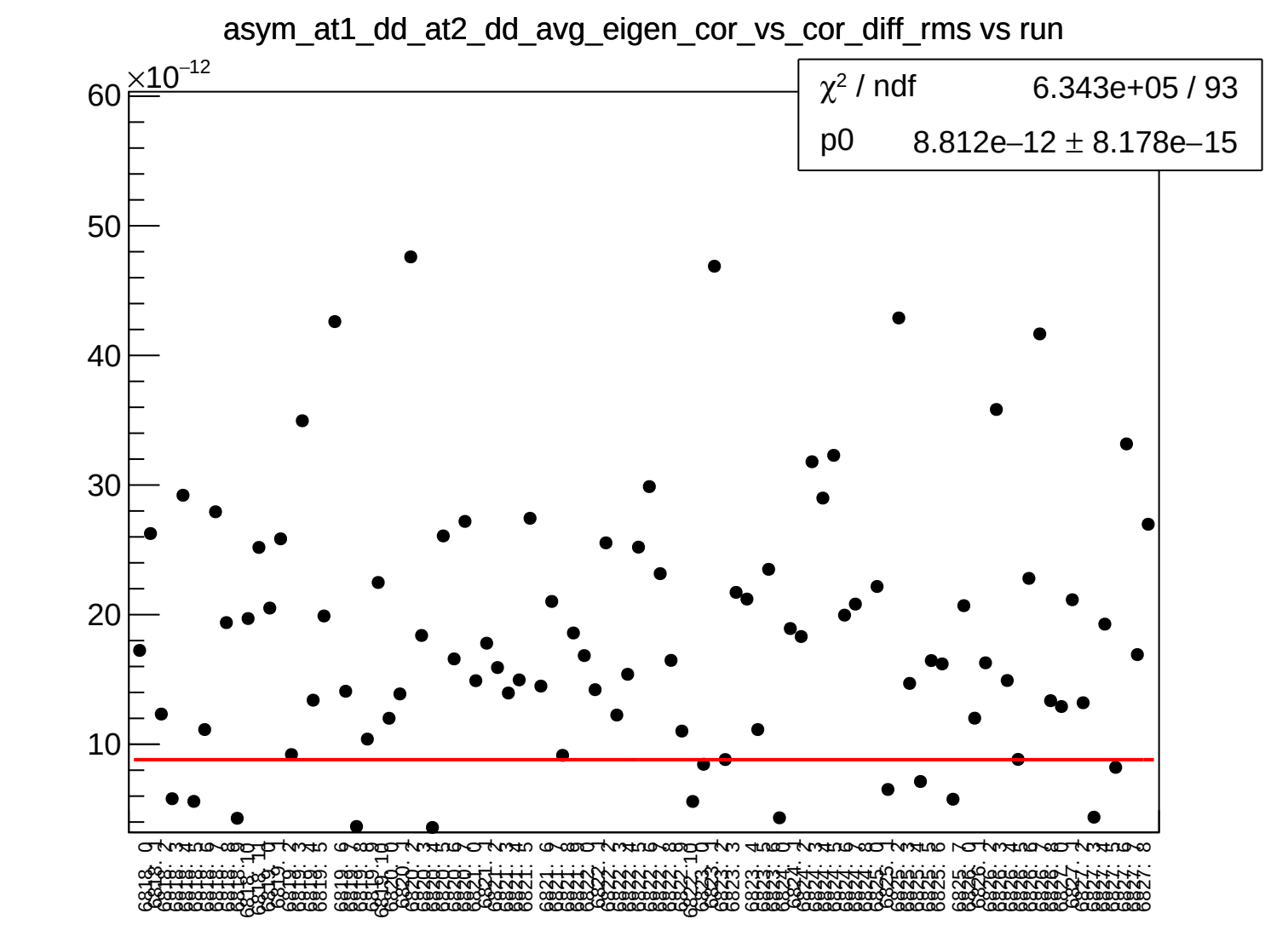

pull1D
Entries 94
Mean −0.003095
Std Dev 0.9876

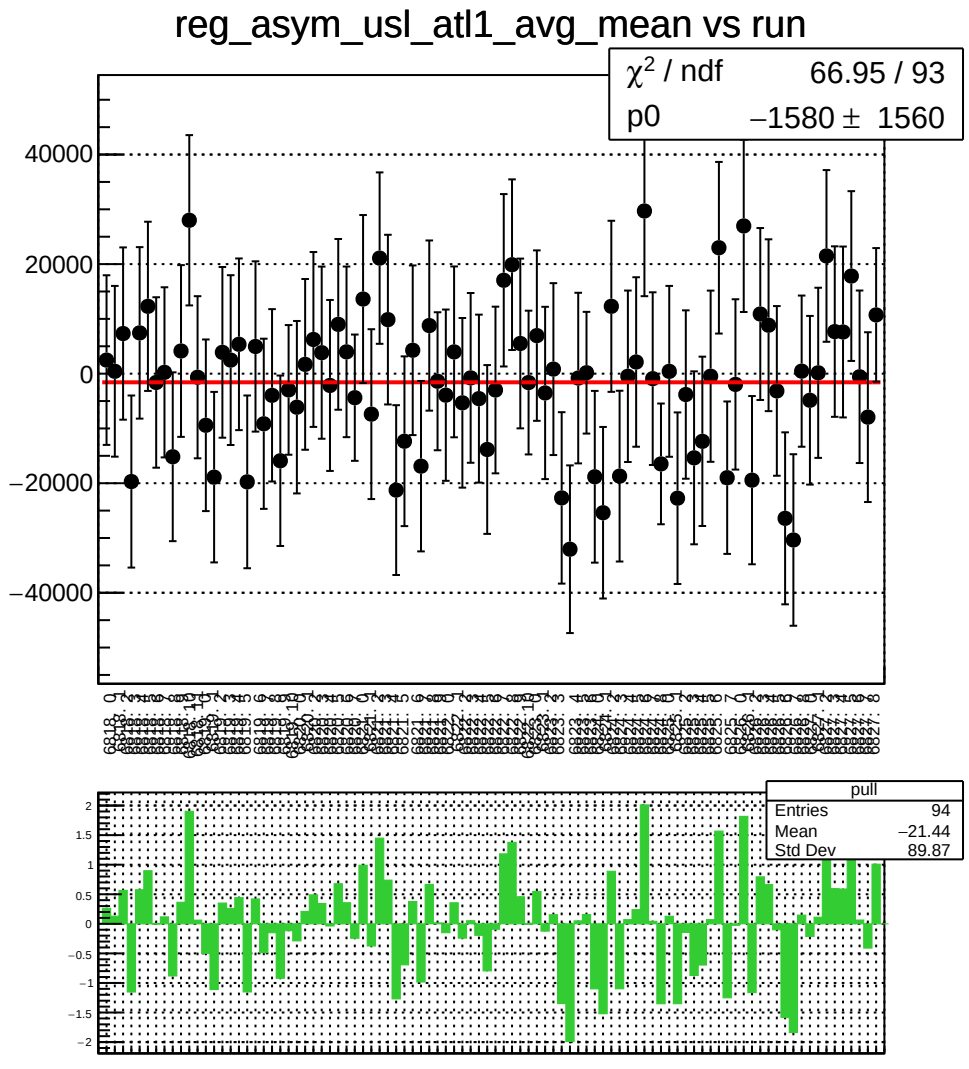

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.668e+05 / 93
p0 36.05 ± 0.02825
80
70
60
50
40
30
20

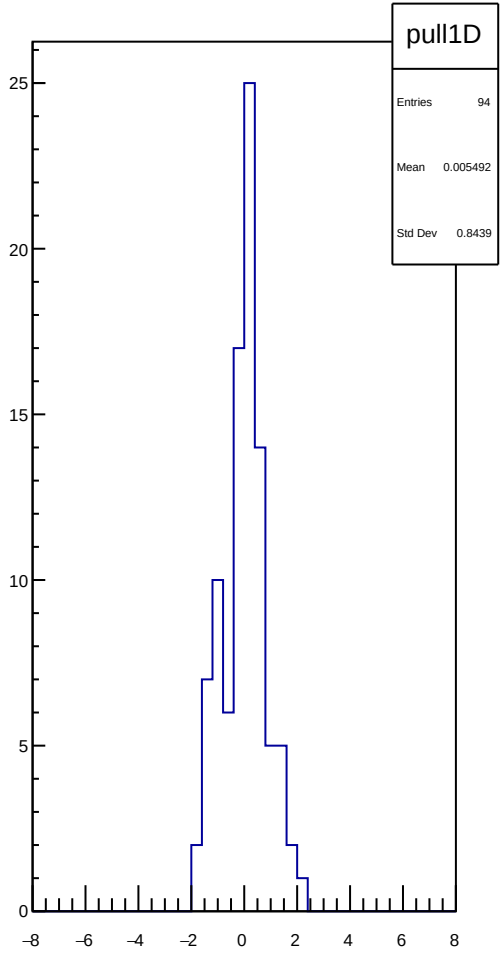

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.68 / 93
p0 0.02607 ± 0.03996
pull
Entries 94
Mean 834.5
Std Dev 0
pull1D
Entries 94
Mean −0.003095
Std Dev 0.9876

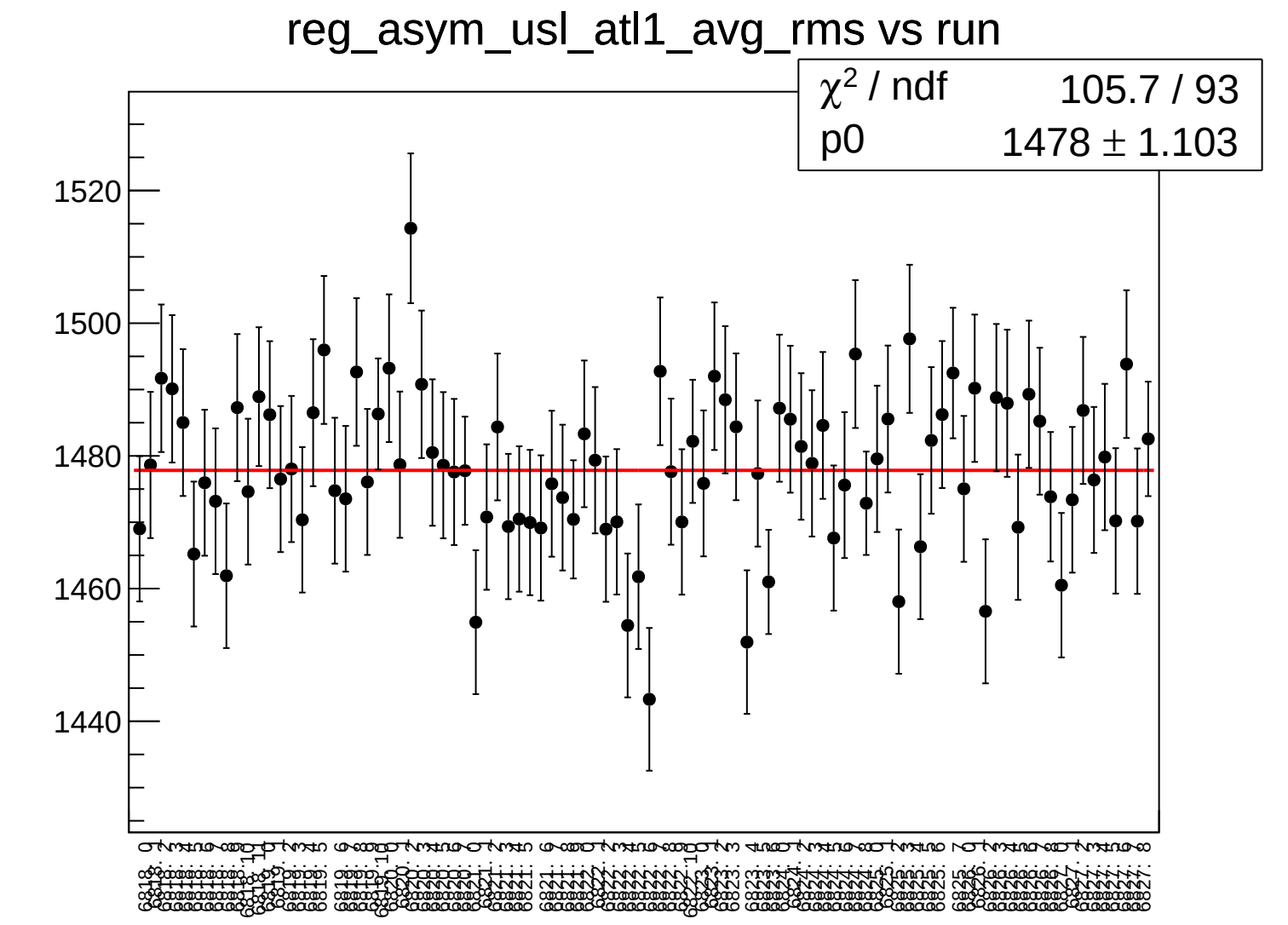

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.668e+05 / 93
p0 36.05 ± 0.02825
80
70
60
50
40
30
20

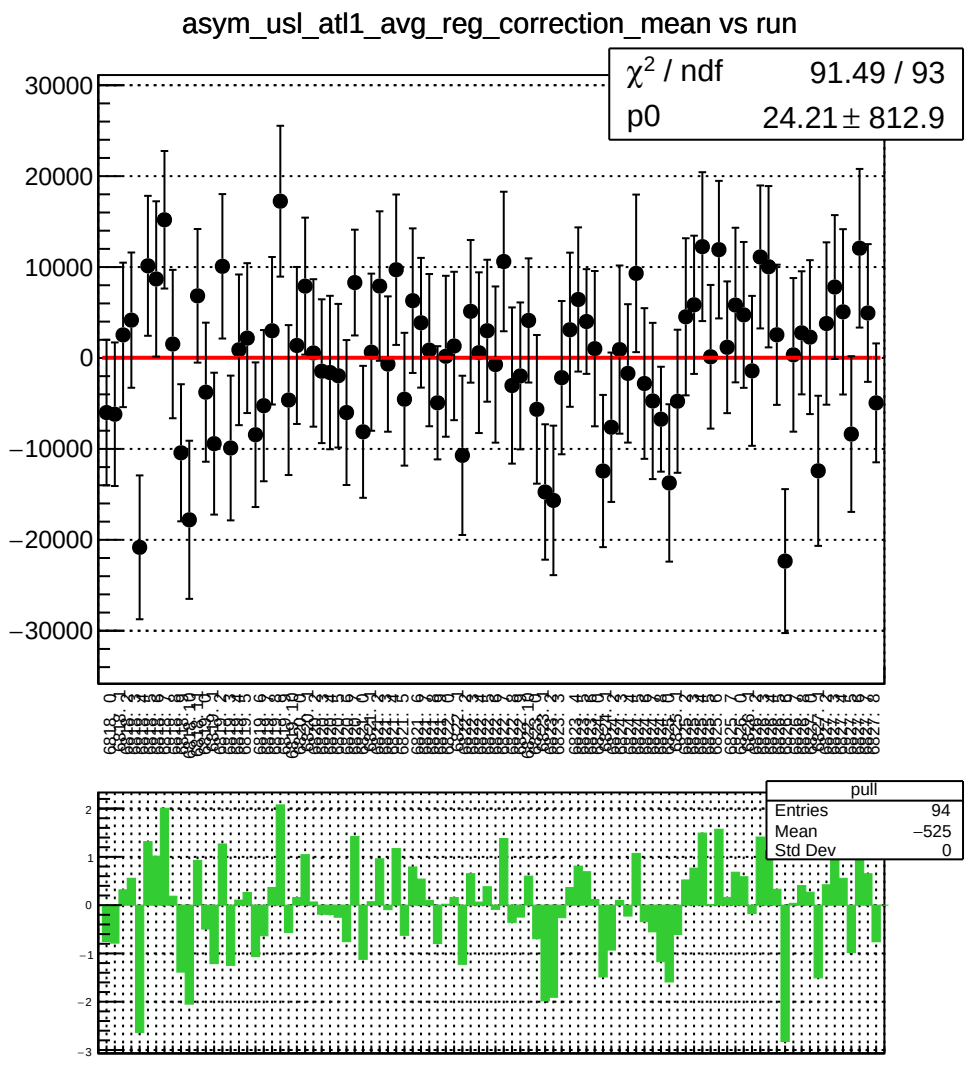

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.62 / 93
p0 −8.014e−15 ± 1.157e−14
pull
Entries 94
Mean 203.7
Std Dev 0
pull1D
Entries 94
Mean −0.04407
Std Dev 0.9076

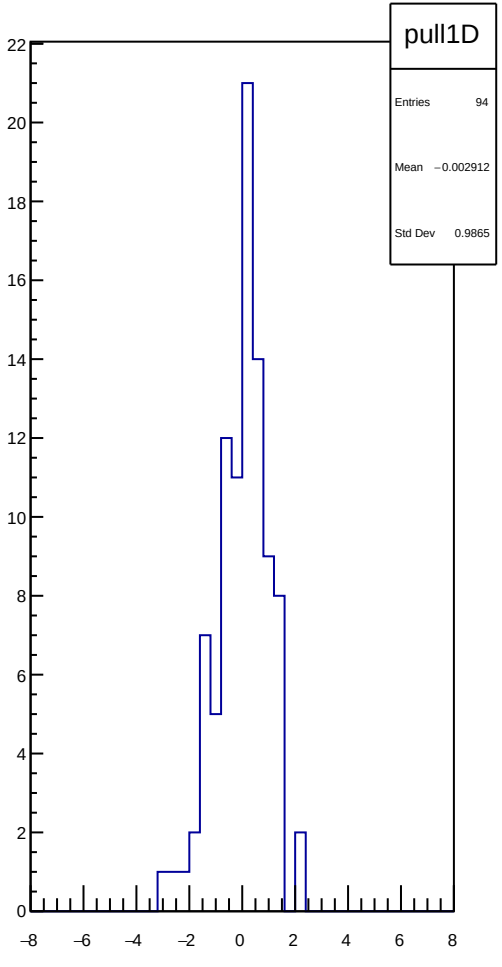

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 6.343e+05 / 93
p0 8.812e−12 ± 8.178e−15

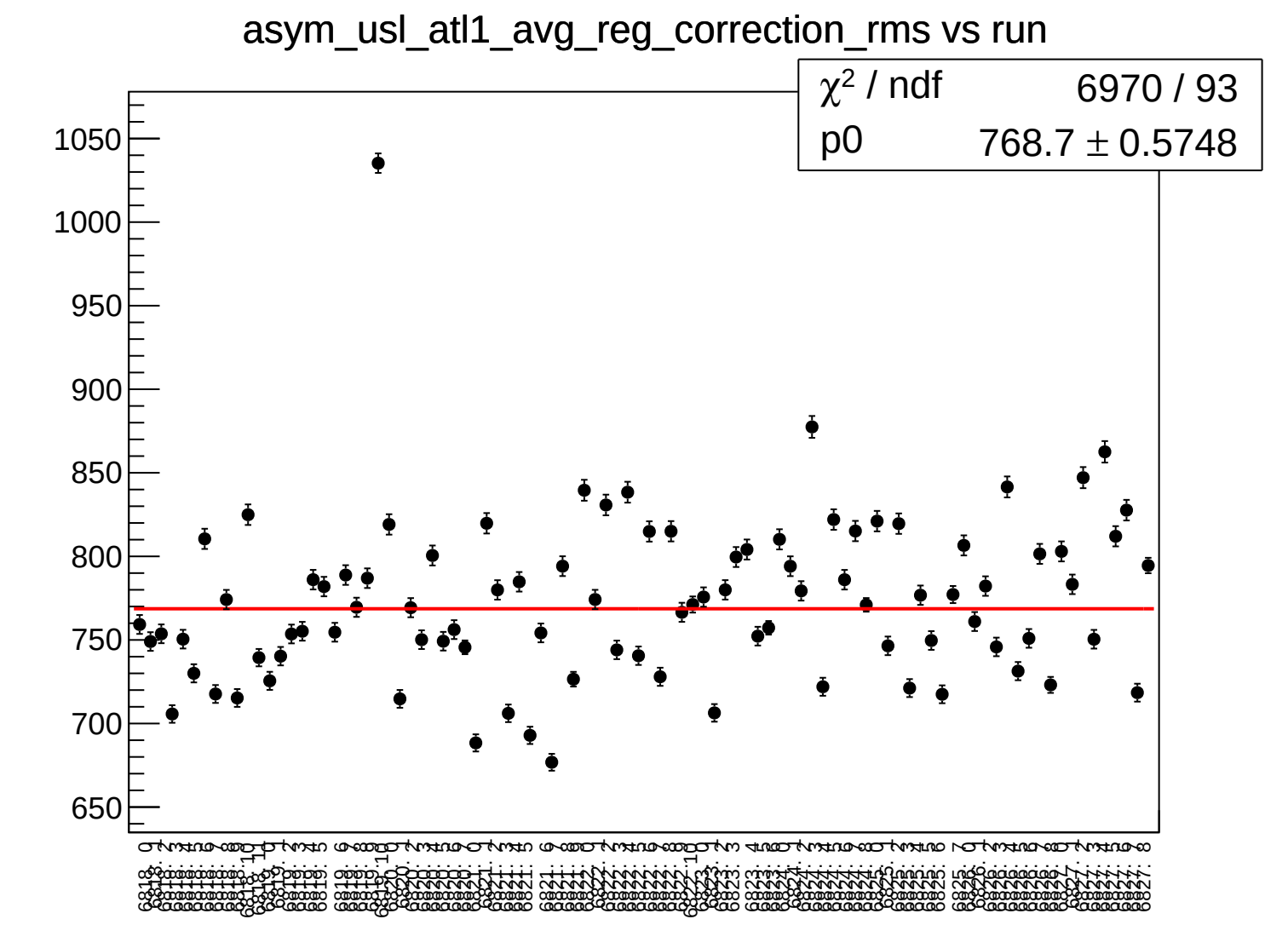

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 66.95 / 93
p0 −1580 ± 1560
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −21.44
Std Dev 89.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

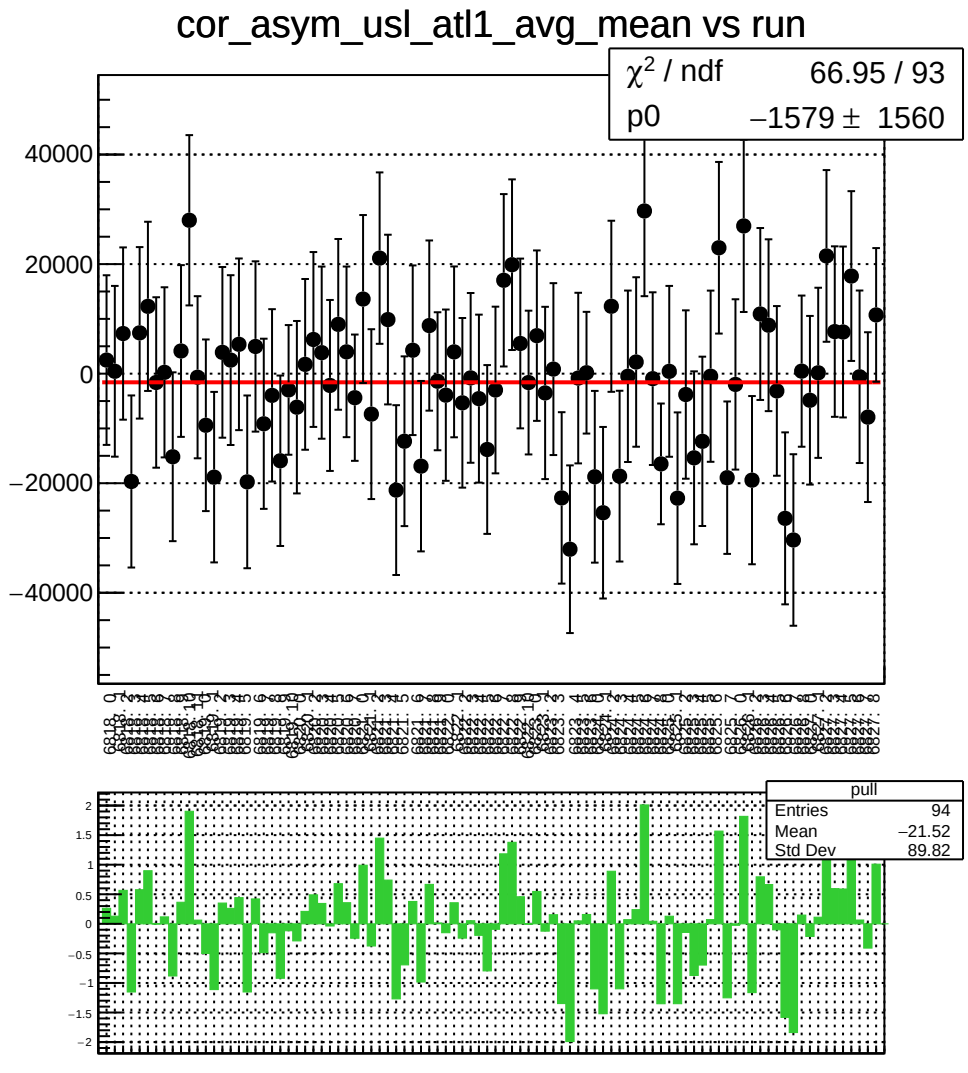

pull1D
Entries 94
Mean 0.005492
Std Dev 0.8439
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

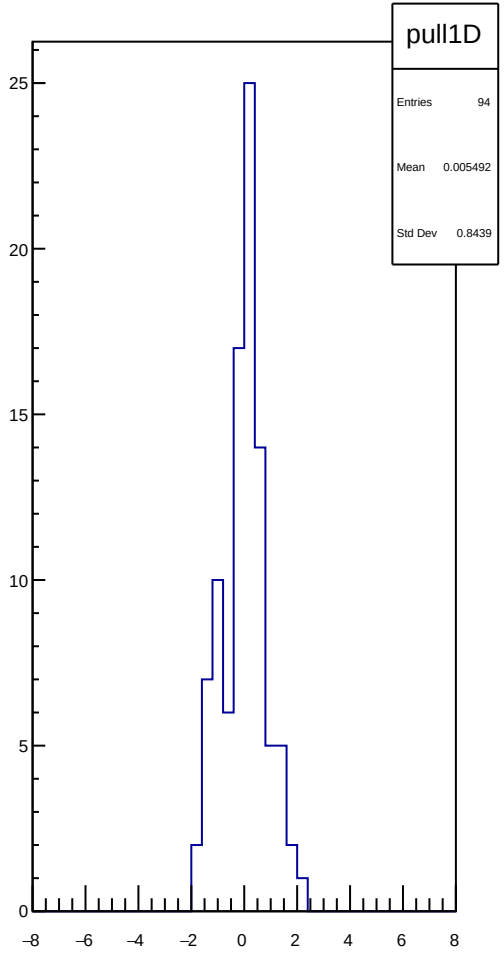

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 105.7 / 93
p0 1478 ± 1.103
1520
1500
1480
1460
1440

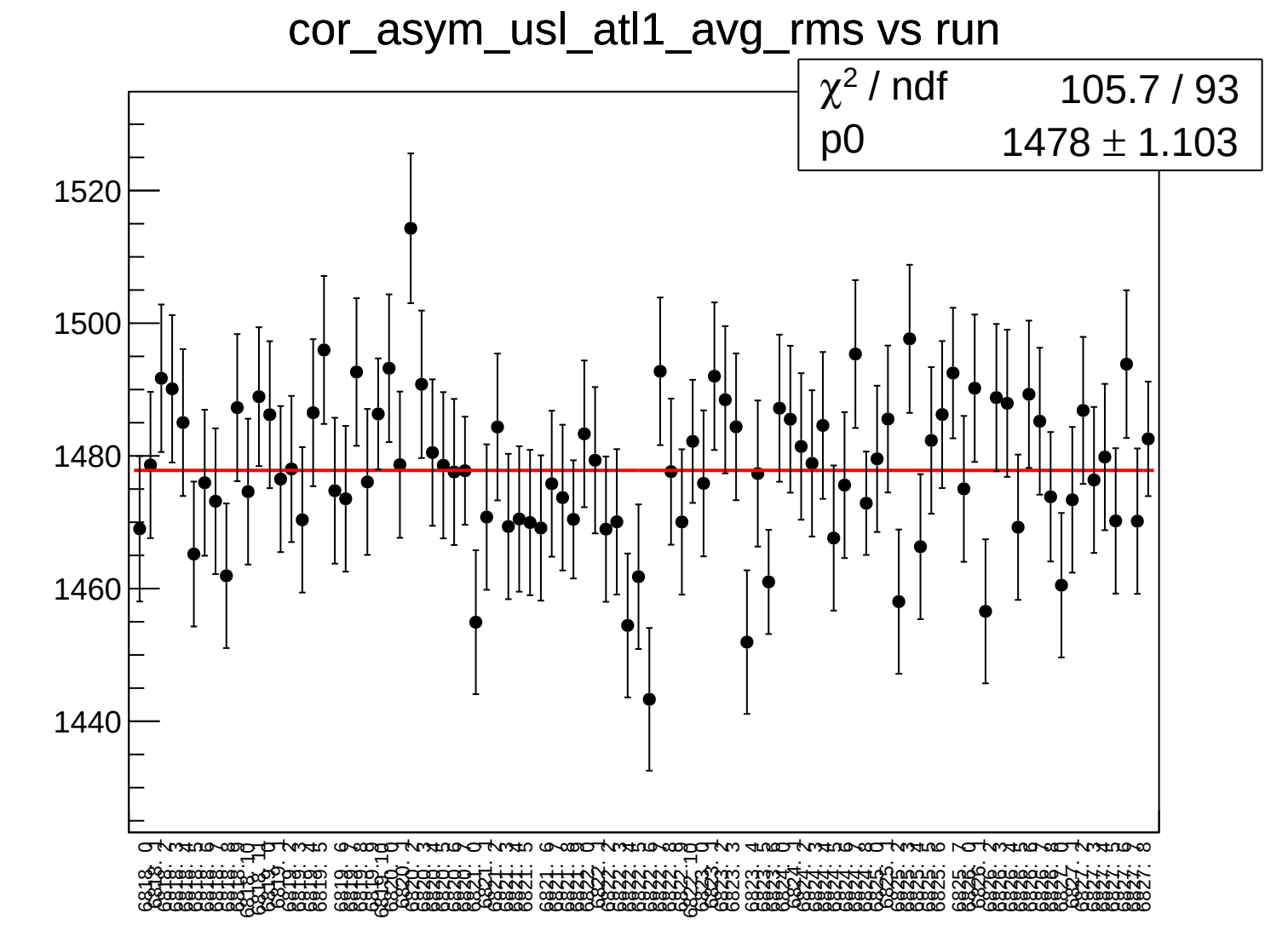

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 91.49 / 93
p0 24.21 ± 812.9
pull
Entries 94
Mean −525
Std Dev 0

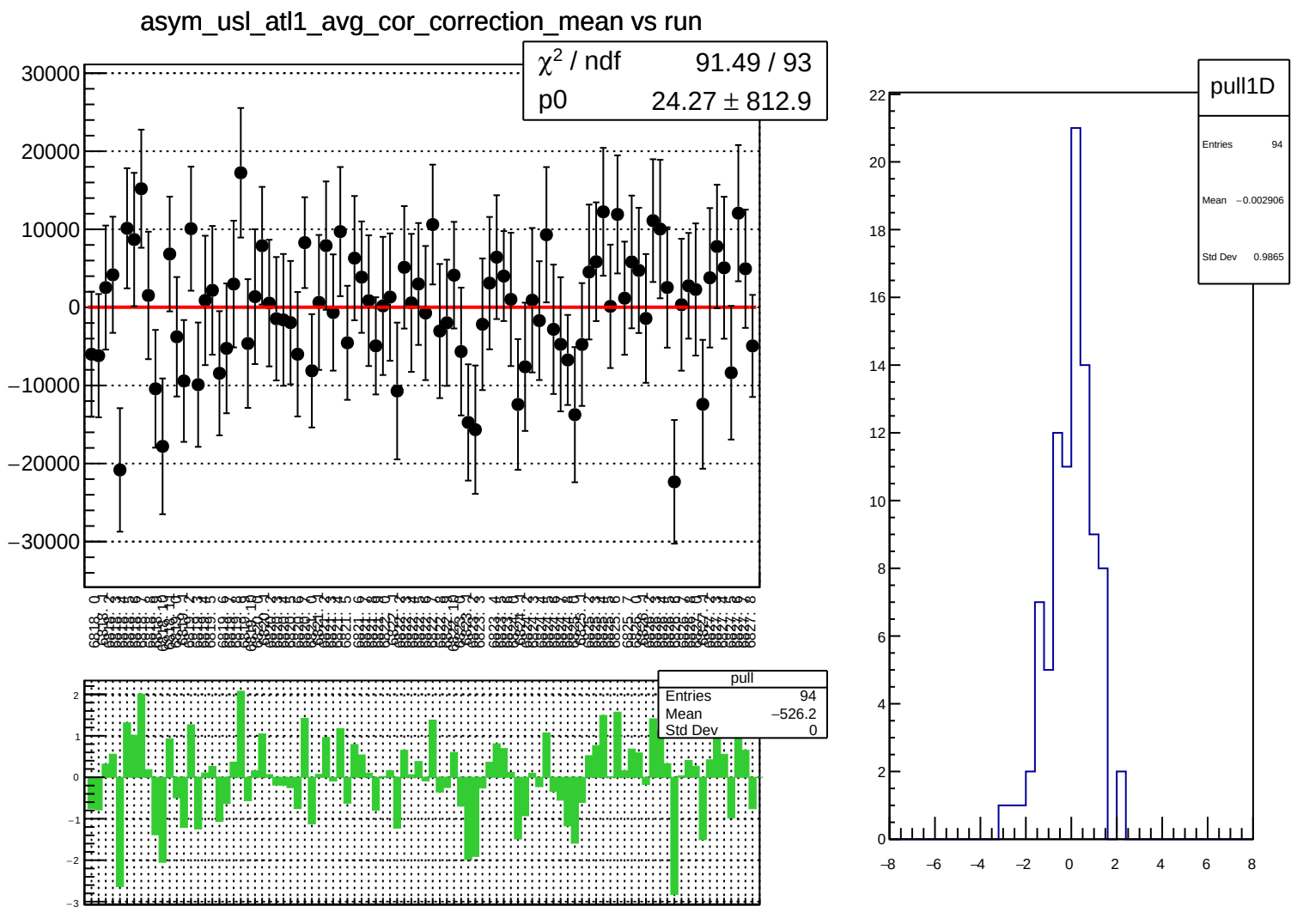

pull1D
Entries 94
Mean −0.002912
Std Dev 0.9865

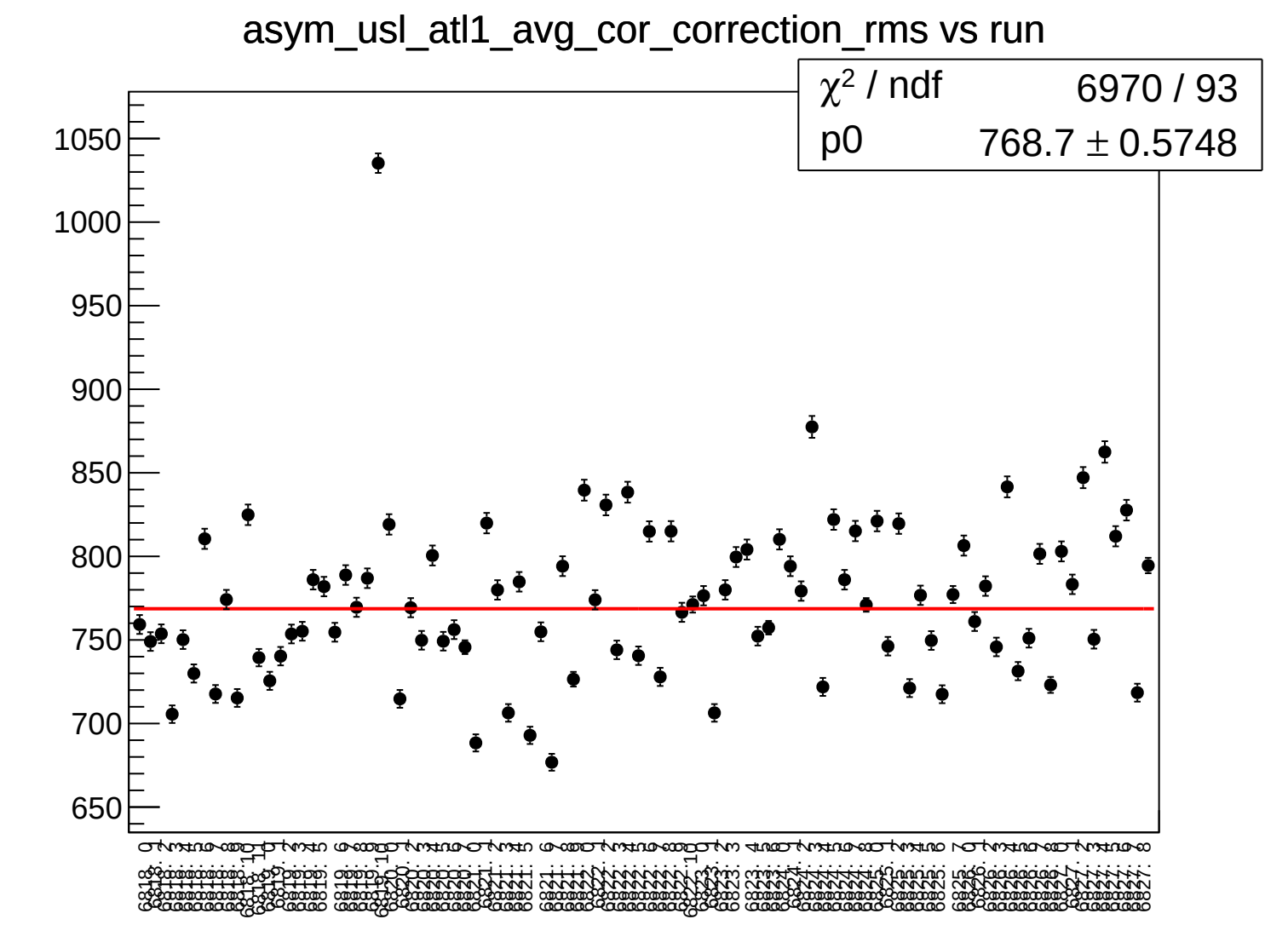

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6970 / 93
p0 768.7 ± 0.5748
1050
1000
950
900
850
800
750
700
650

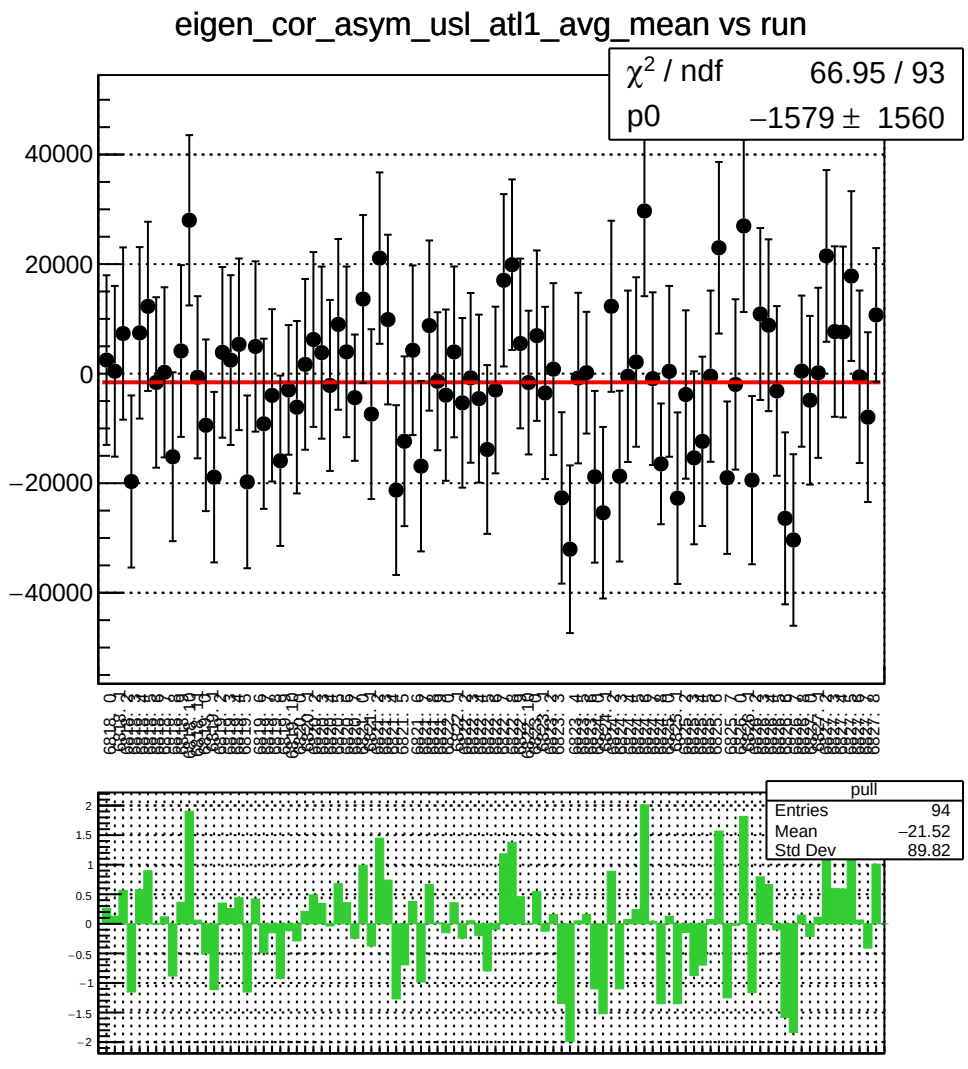

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 66.95 / 93
p0 −1579 ± 1560
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −21.52
Std Dev 89.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

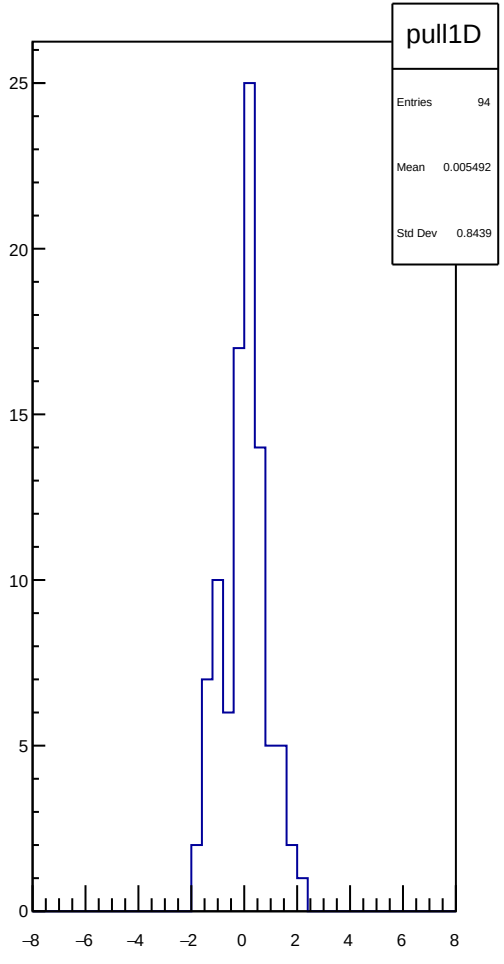

pull1D
Entries 94
Mean 0.005492
Std Dev 0.8439
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

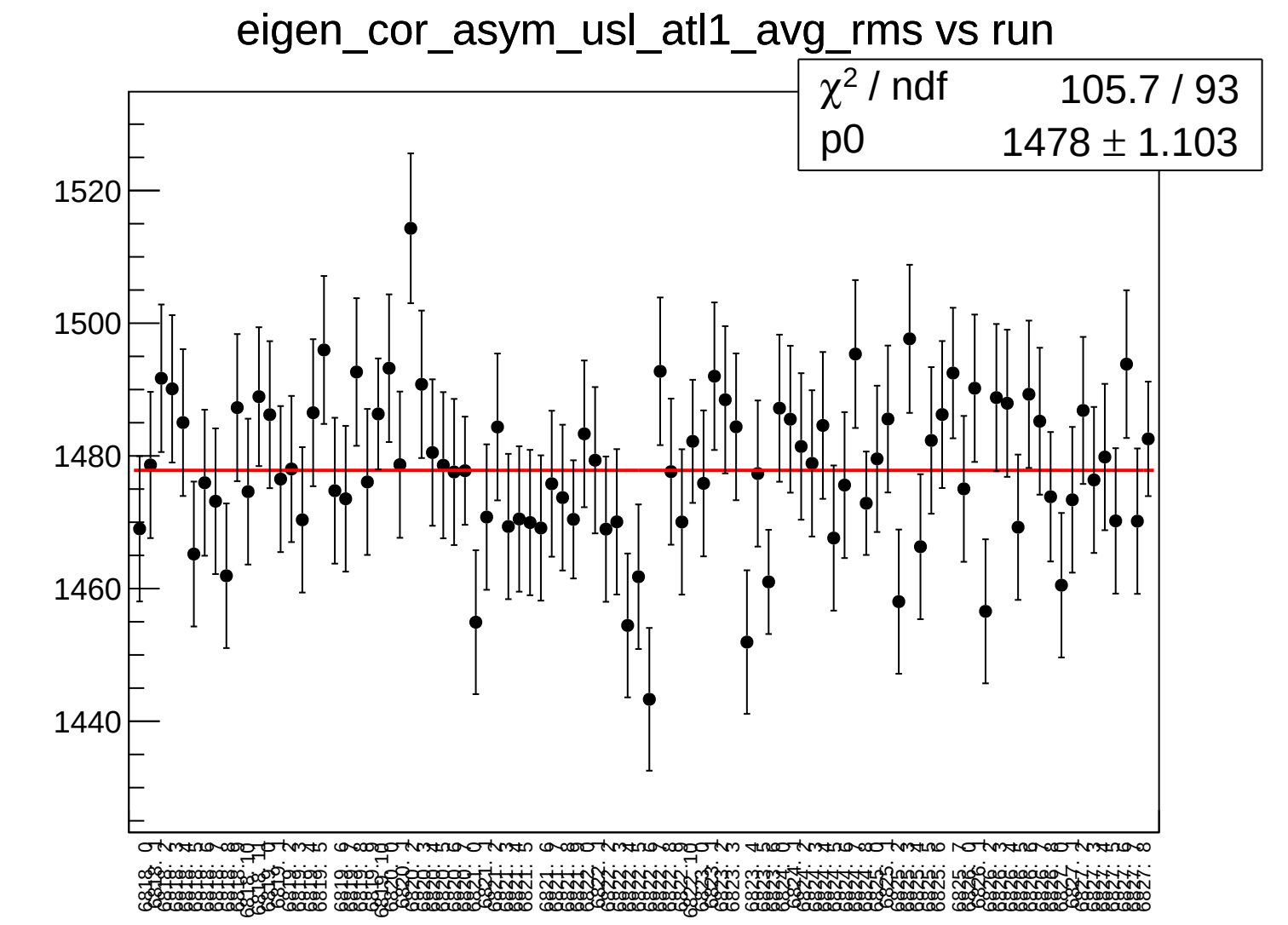

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 105.7 / 93
p0 1478 ± 1.103
1520
1500
1480
1460
1440

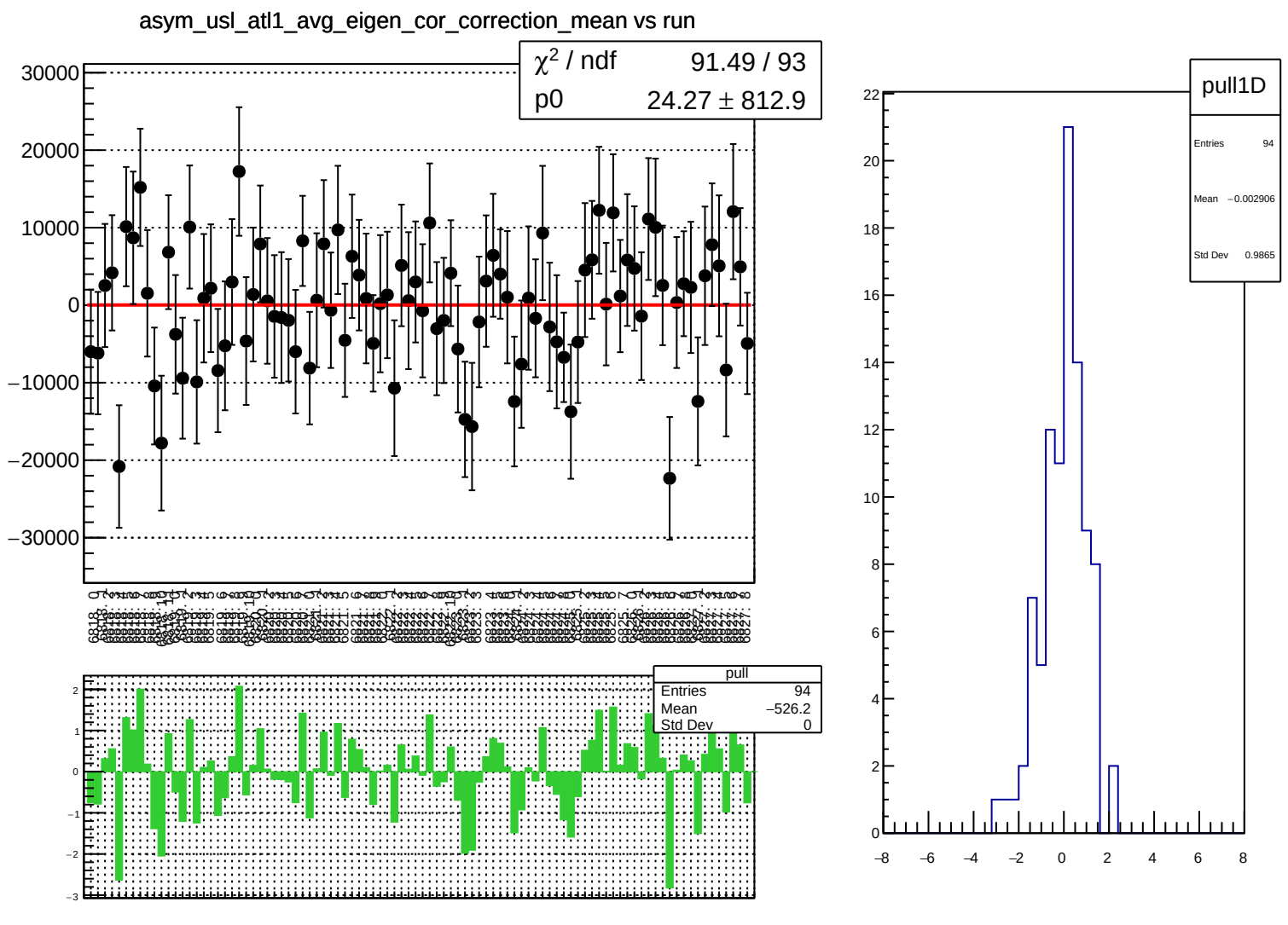

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 91.49 / 93
p0 24.27 ± 812.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −526.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002906
Std Dev 0.9865
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

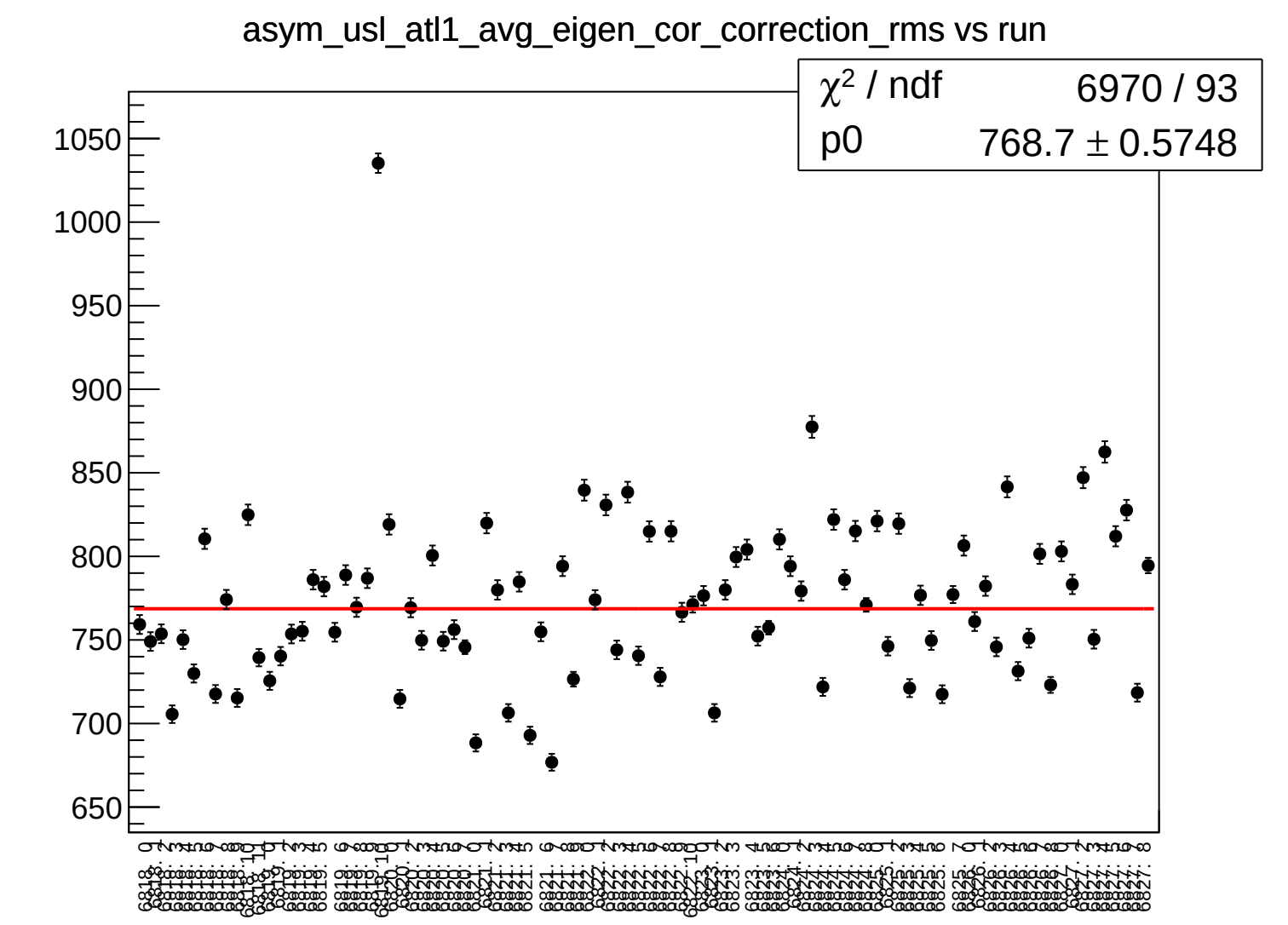

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6970 / 93
p0 768.7 ± 0.5748
1050
1000
950
900
850
800
750
700
650

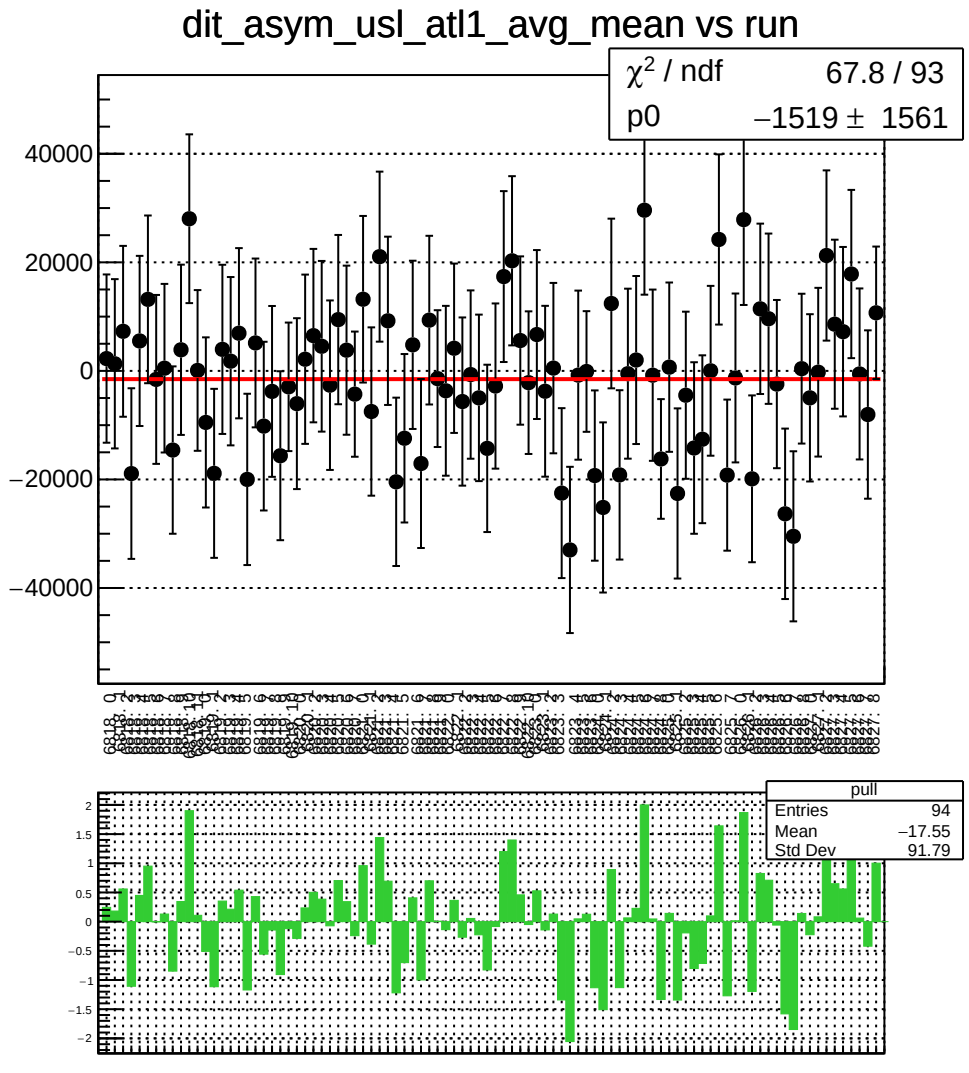

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 66.95 / 93
p0 −1579 ± 1560
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −21.52
Std Dev 89.82
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

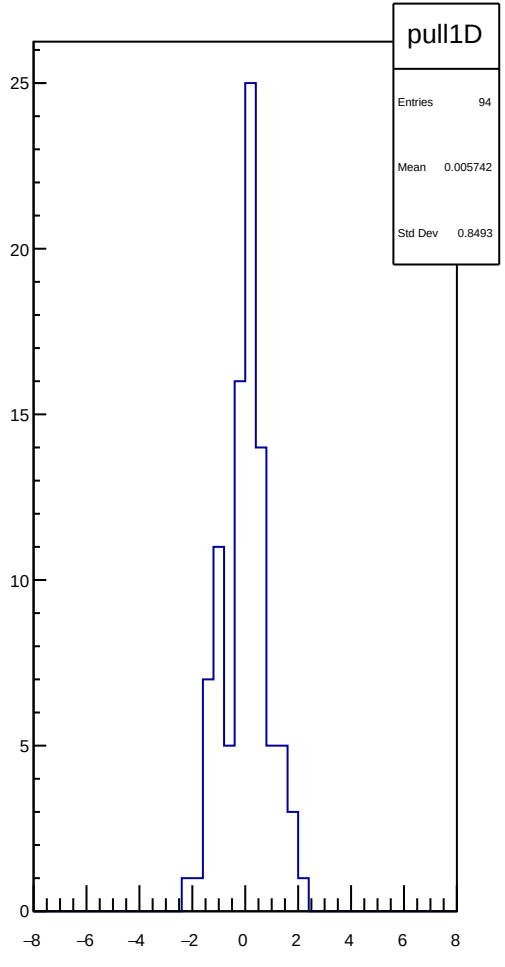

pull1D
Entries 94
Mean 0.005492
Std Dev 0.8439
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

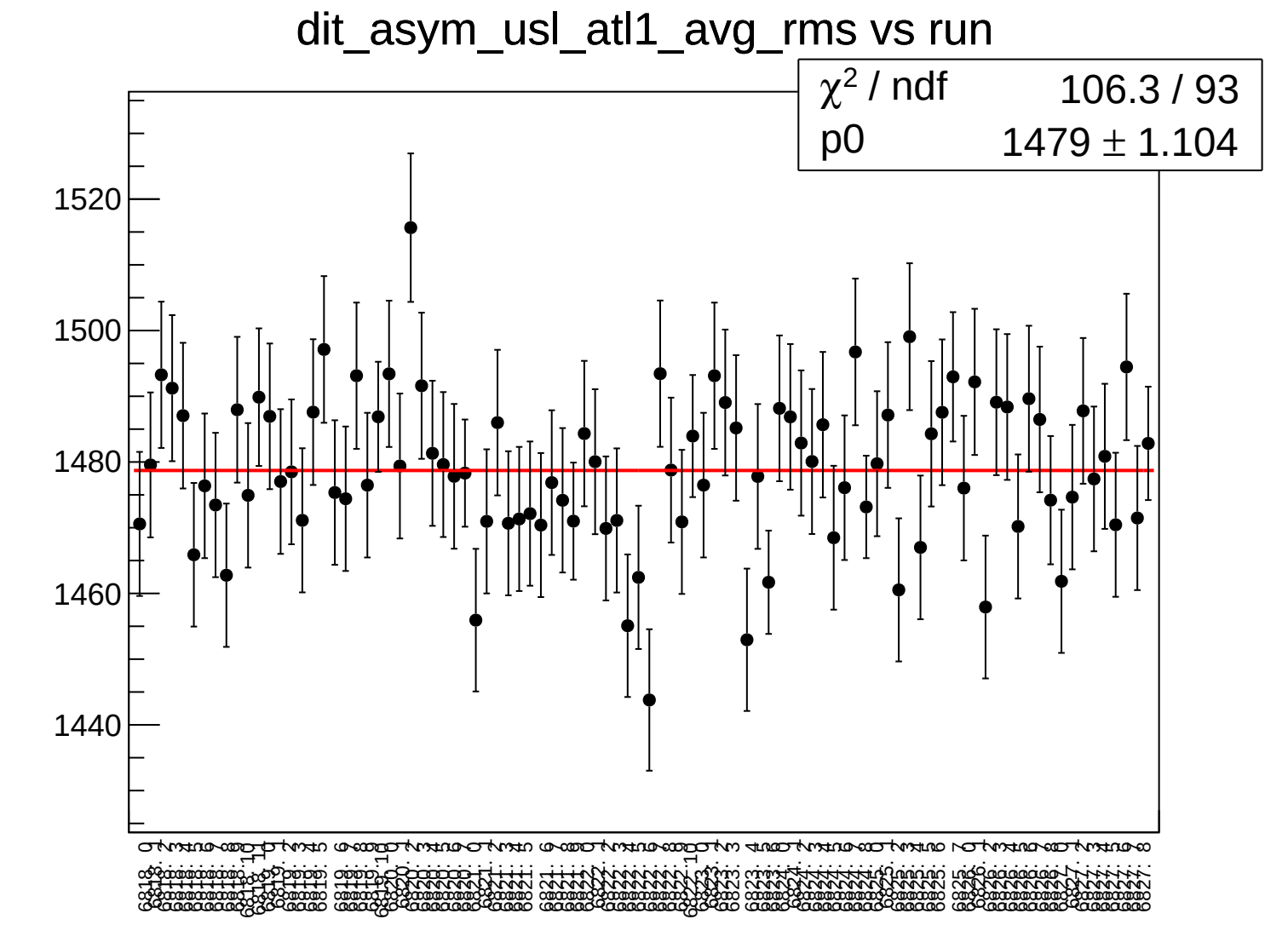

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 105.7 / 93
p0 1478 ± 1.103
1520
1500
1480
1460
1440

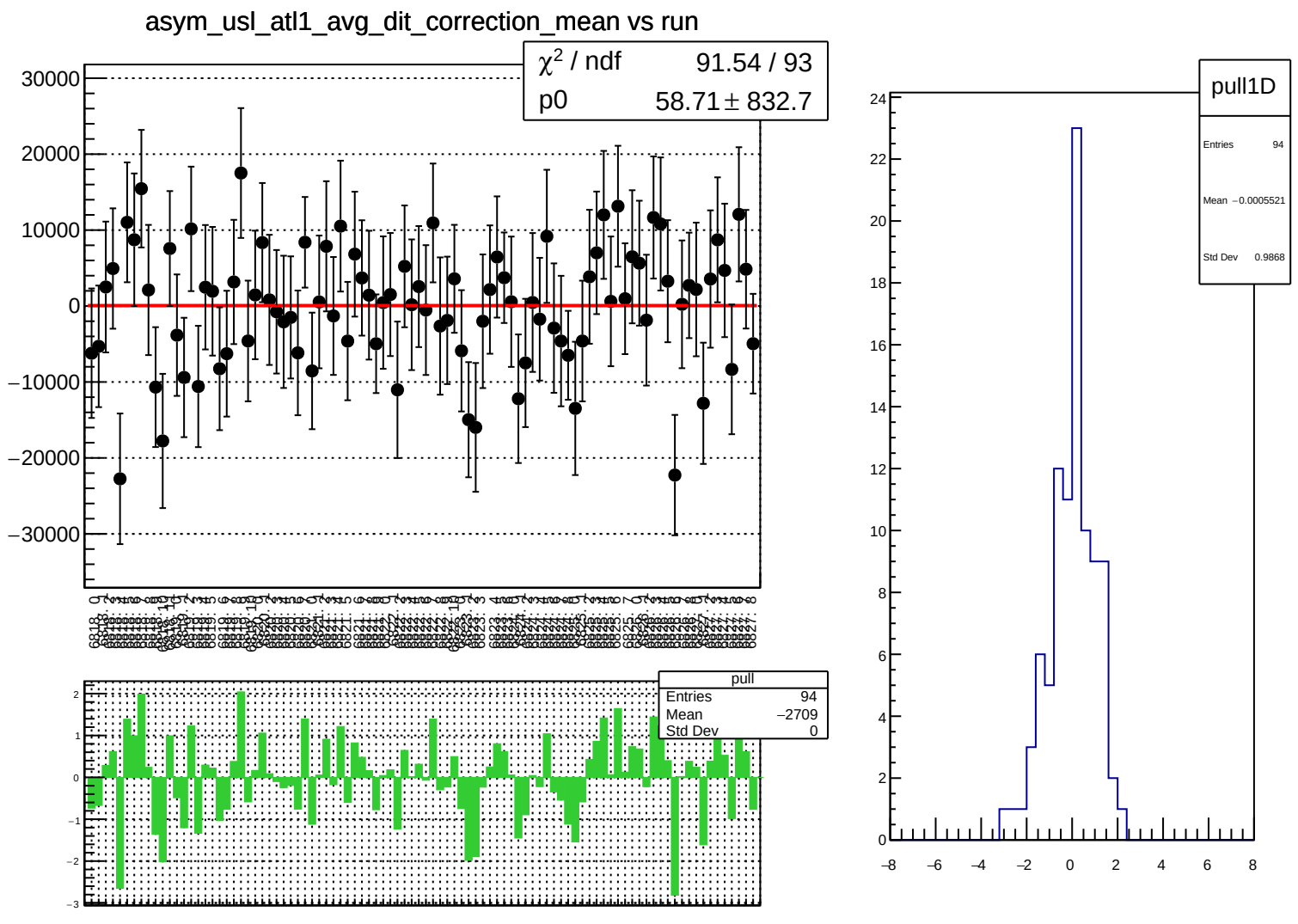

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 91.49 / 93
p0 24.27 ± 812.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −526.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002906
Std Dev 0.9865
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

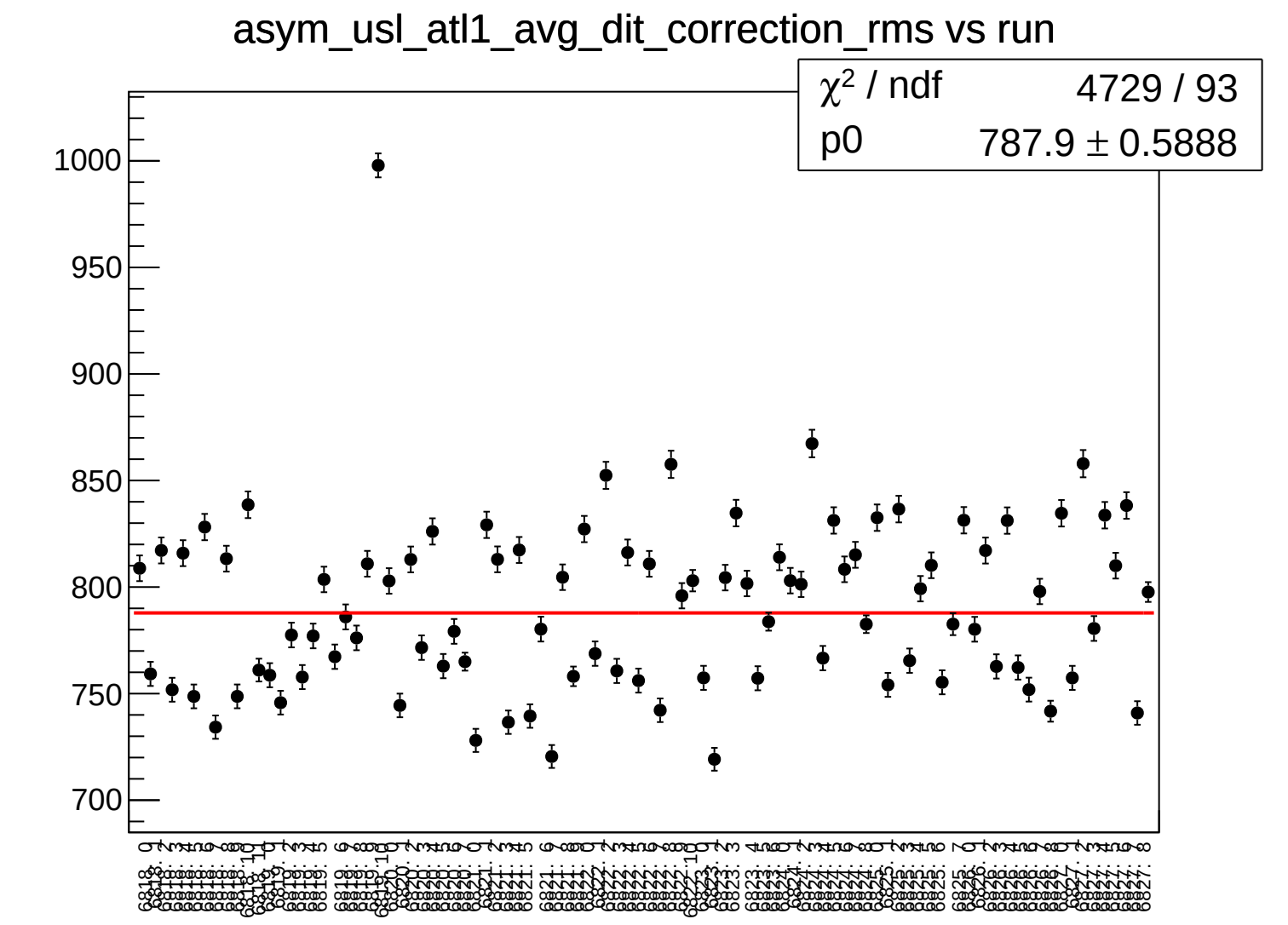

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6970 / 93
p0 768.7 ± 0.5748
1050
1000
950
900
850
800
750
700
650

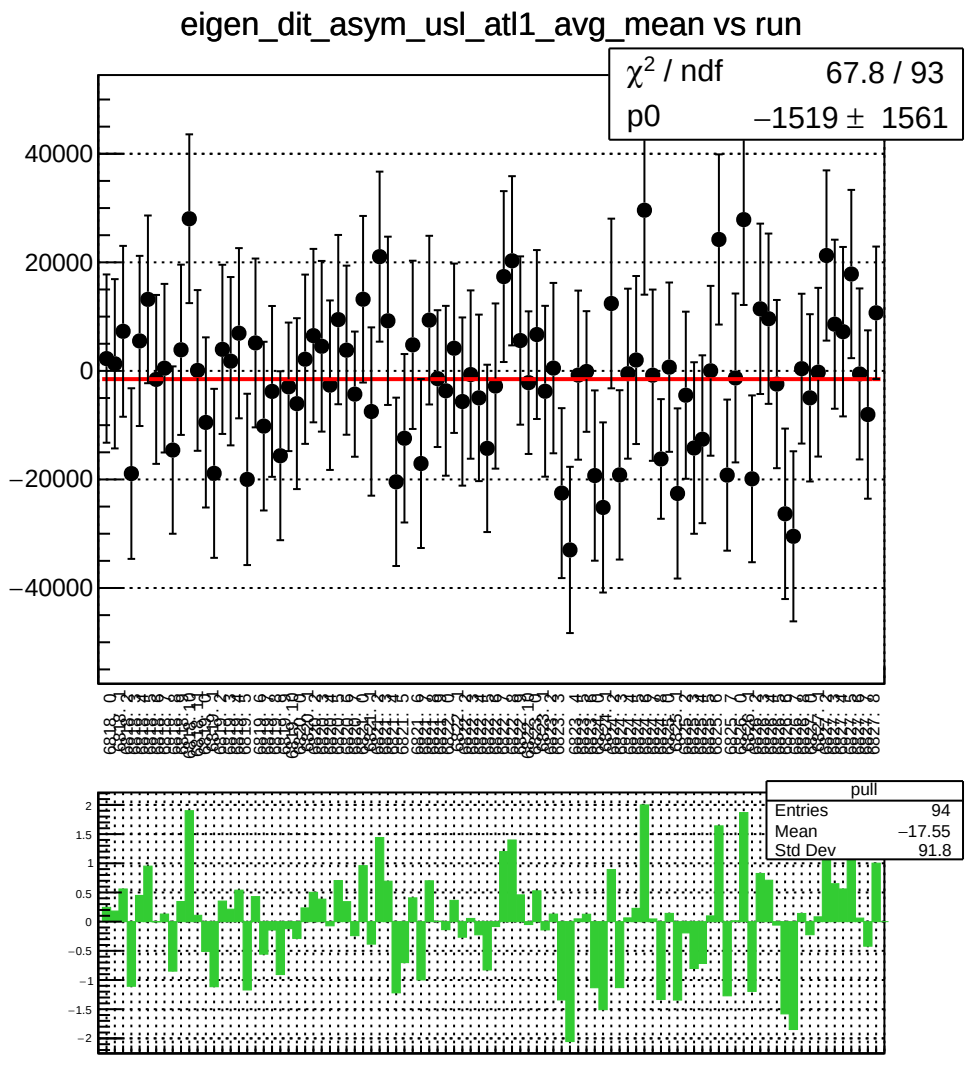

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 67.8 / 93
p0 −1519 ± 1561
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −17.55
Std Dev 91.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

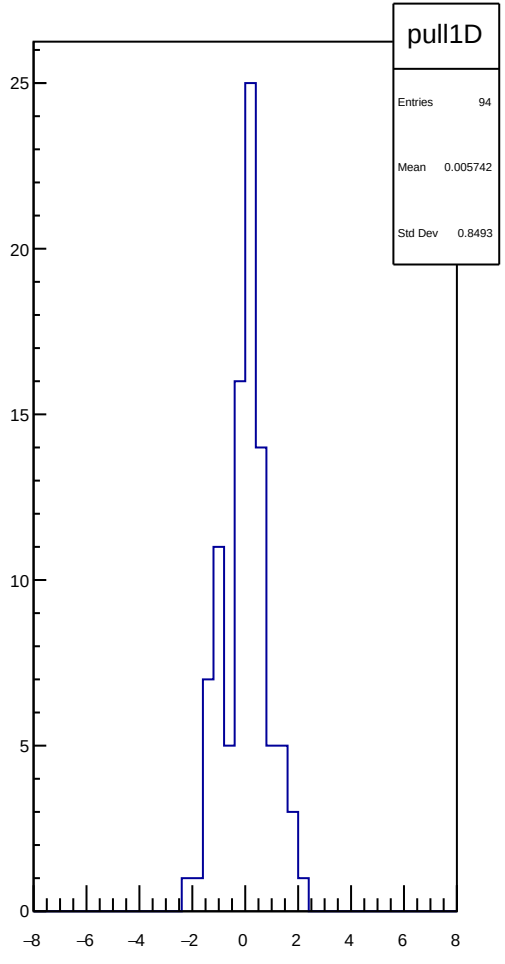

pull1D
Entries 94
Mean 0.005742
Std Dev 0.8493
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

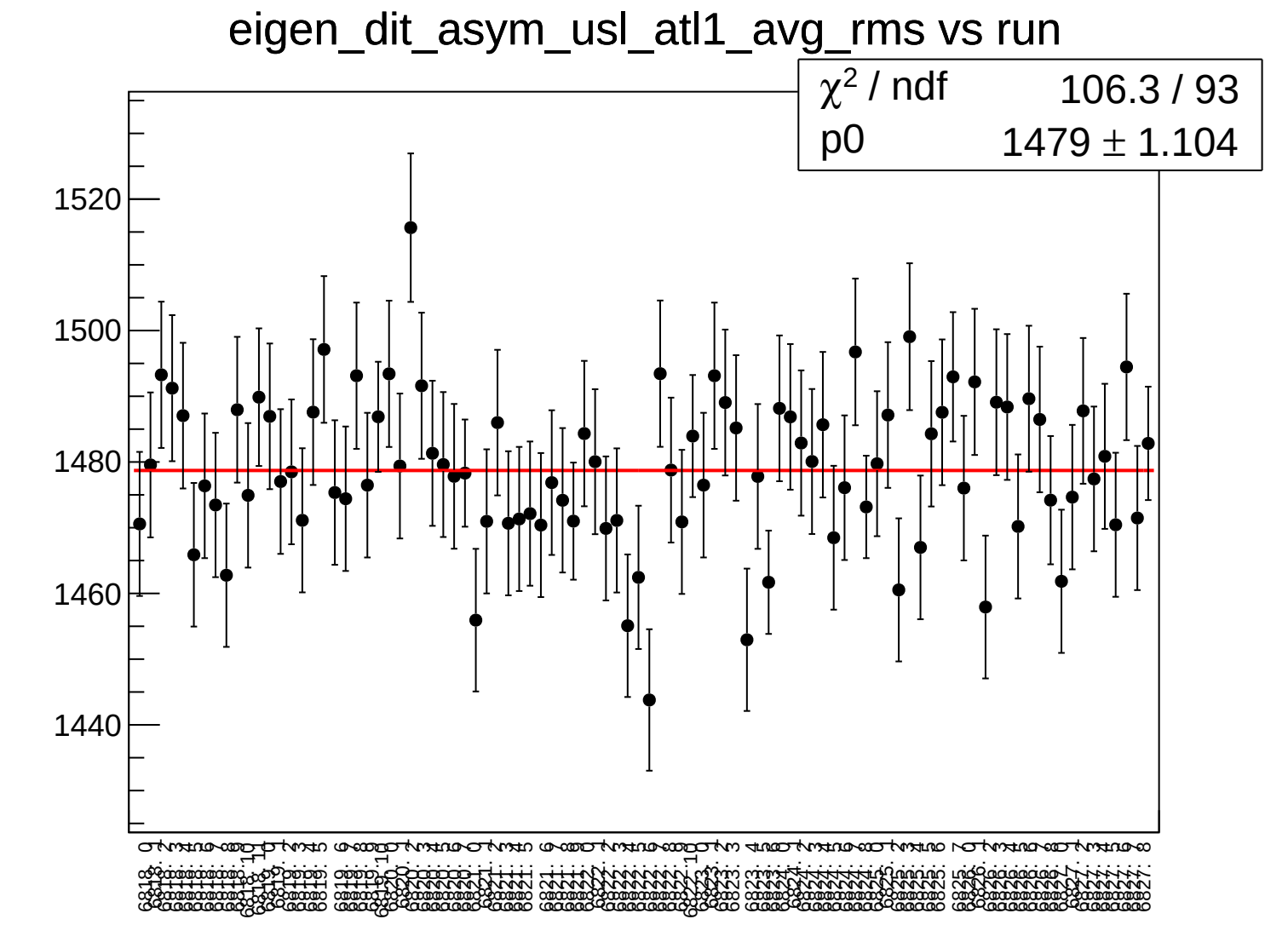

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 106.3 / 93
p0 1479 ± 1.104
1520
1500
1480
1460
1440

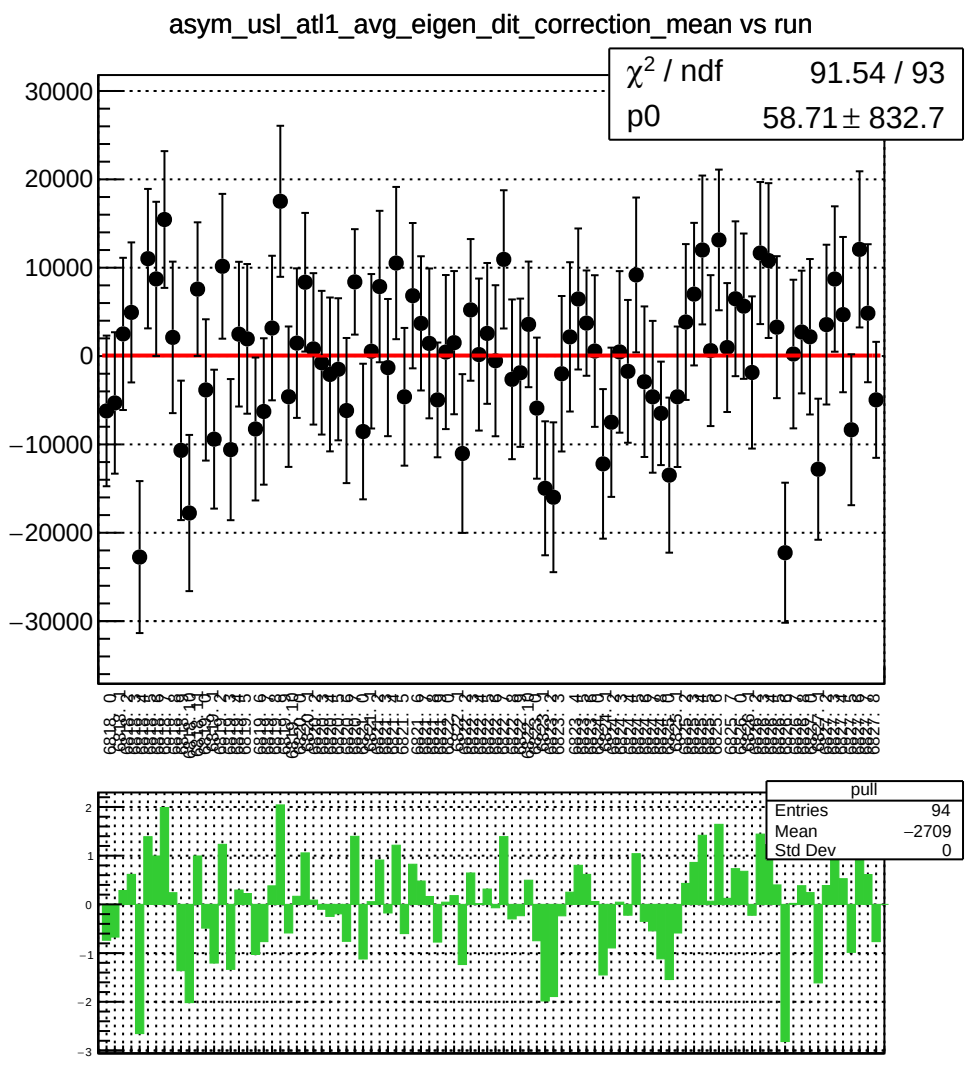

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 91.54 / 93
p0 58.71 ± 832.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −2709
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0005521
Std Dev 0.9868
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

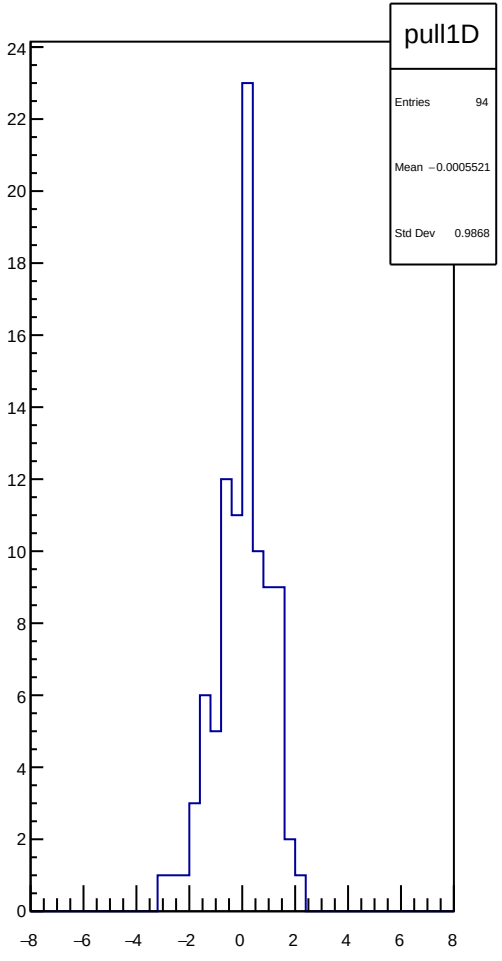

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 4729 / 93
p0 787.9 ± 0.5888
1000
950
900
850
800
750
700

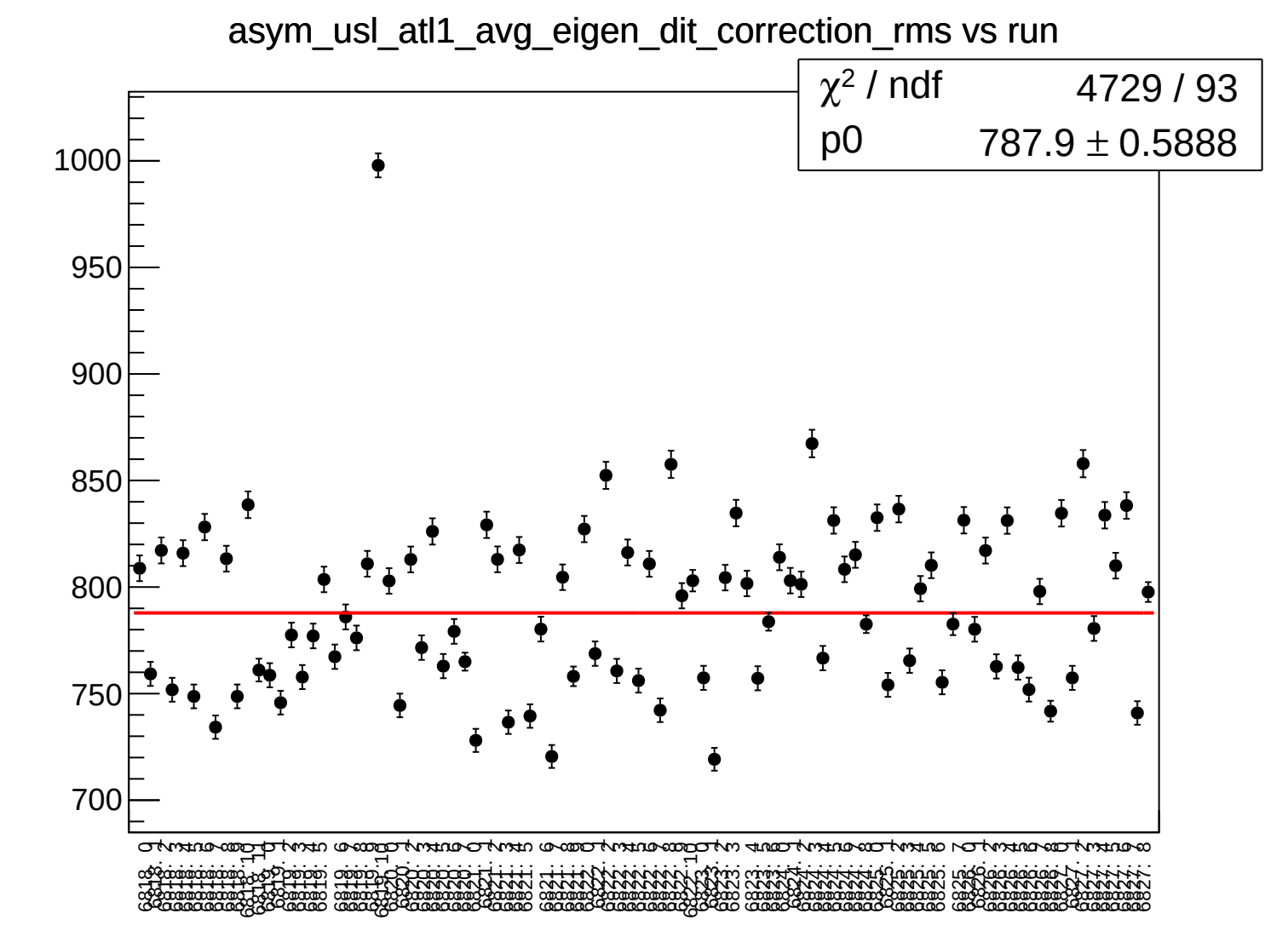

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 67.8 / 93
p0 −1519 ± 1561
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −17.55
Std Dev 91.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

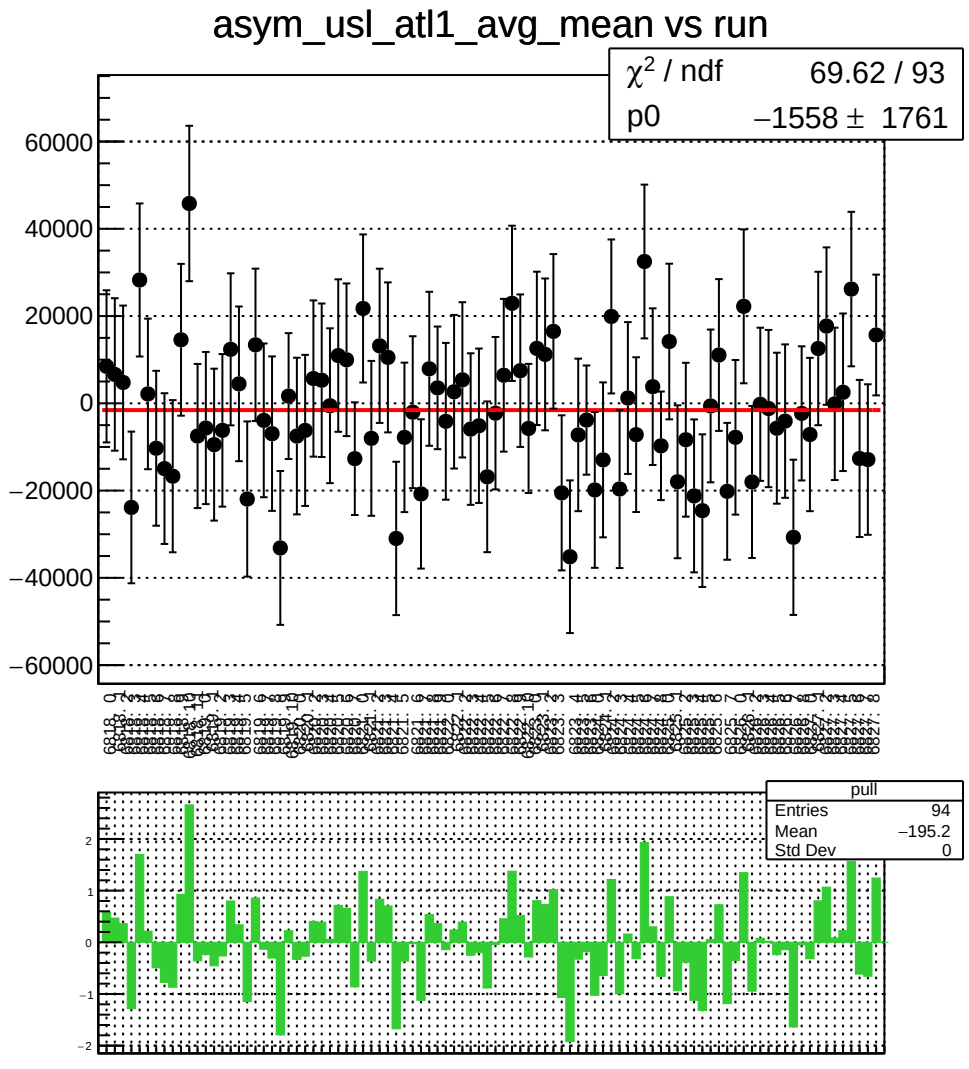

pull1D
Entries 94
Mean 0.005742
Std Dev 0.8493
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

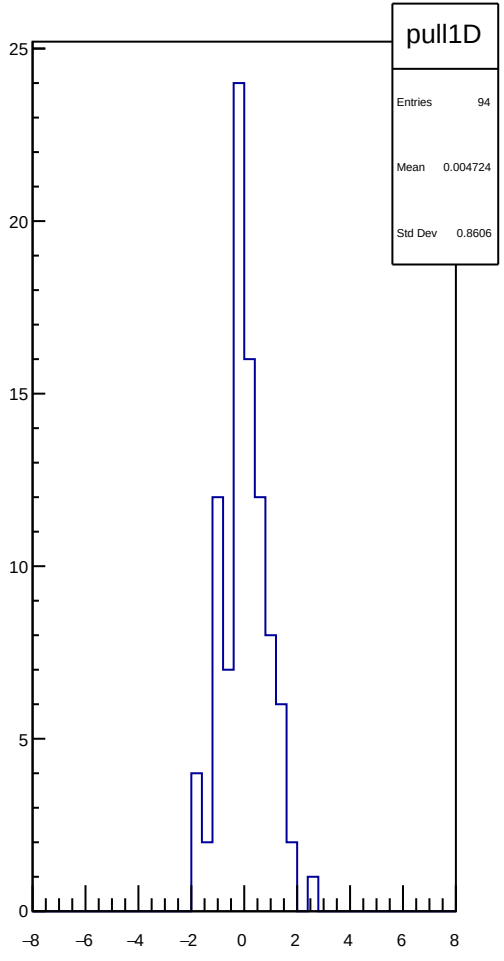

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 106.3 / 93
p0 1479 ± 1.104
1520
1500
1480
1460
1440

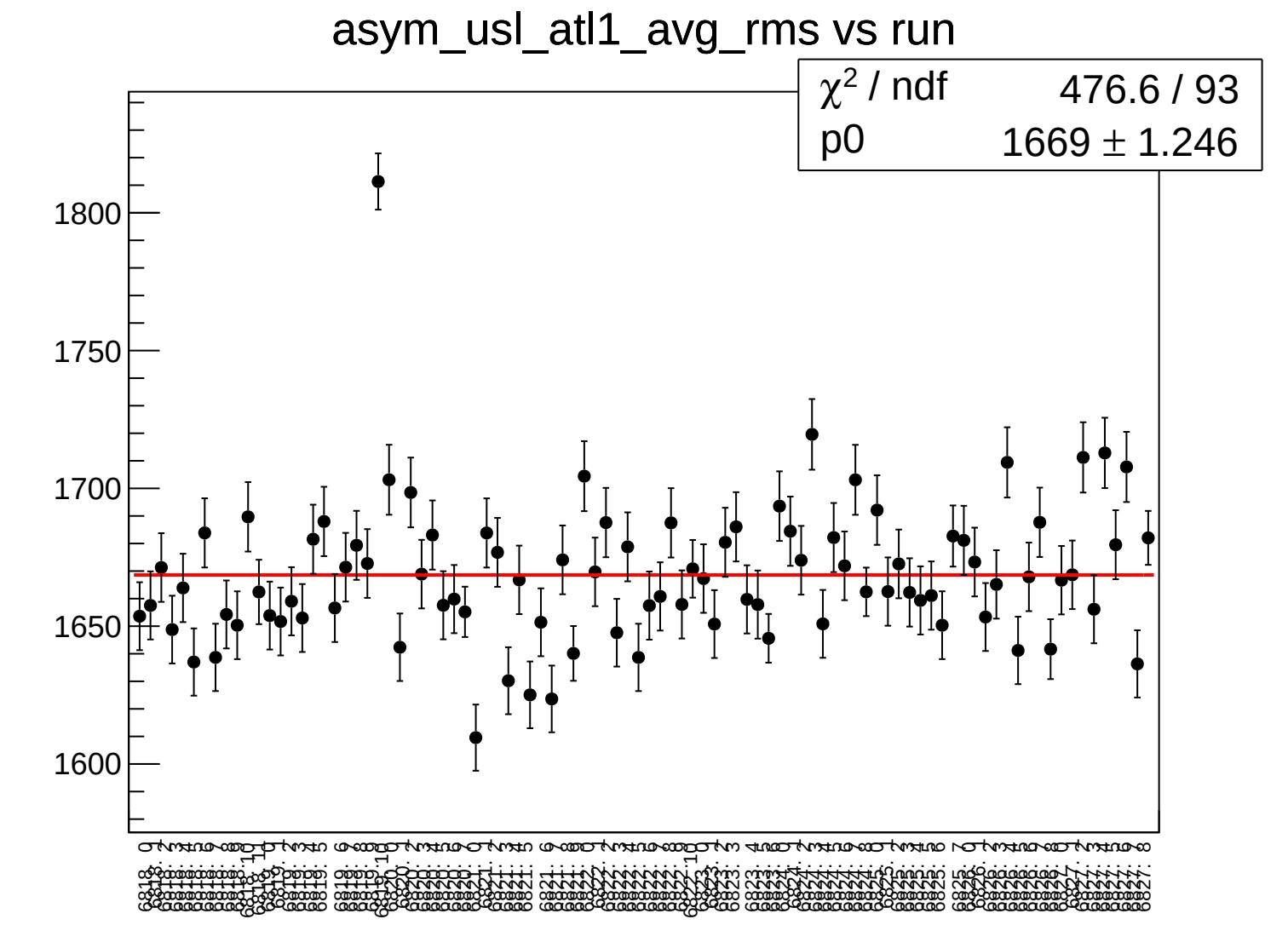

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 91.54 / 93
p0 58.71 ± 832.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −2709
Std Dev 0
2
1
0
−1
−2
−3

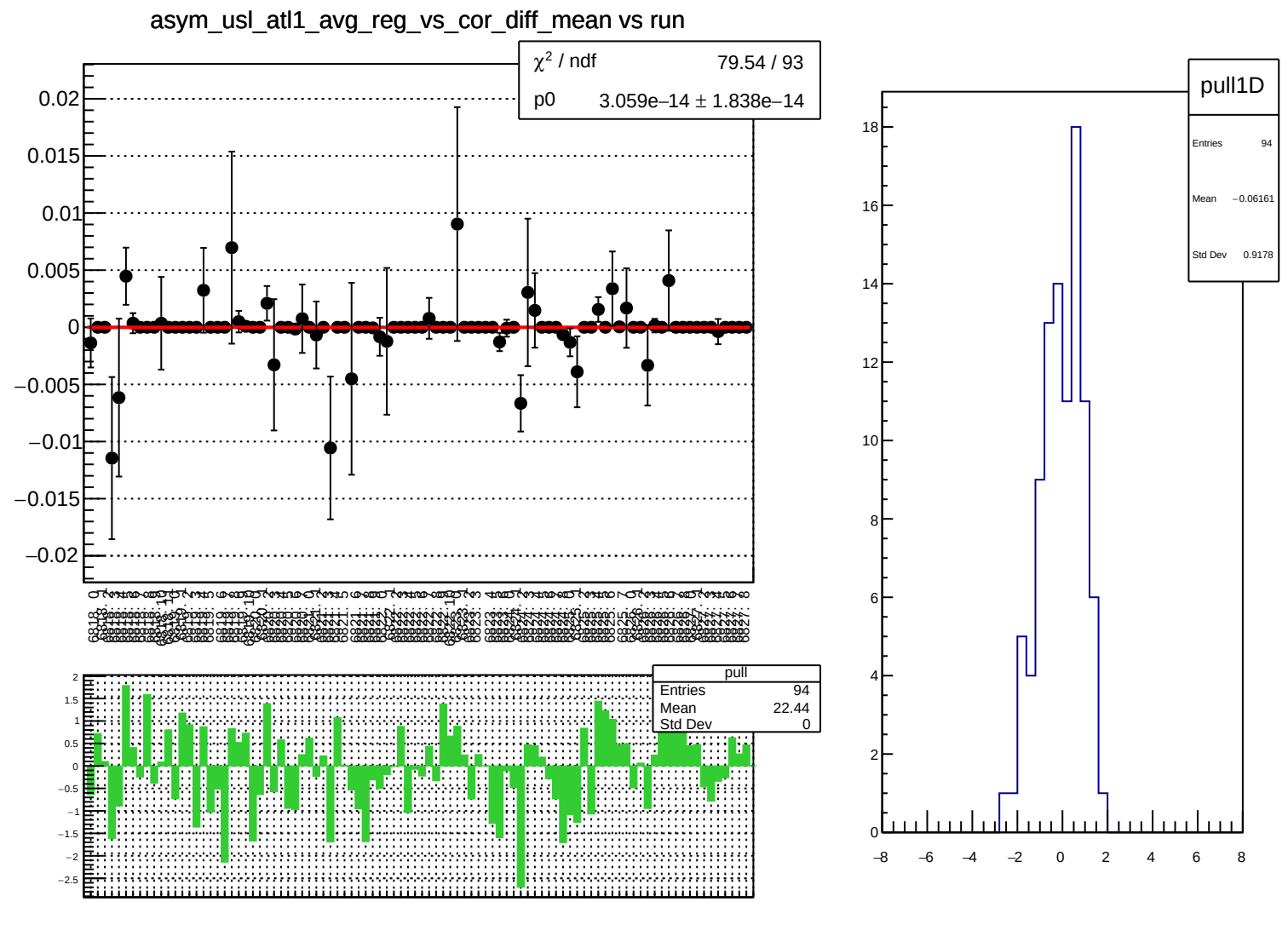

pull1D
Entries 94
Mean −0.0005521
Std Dev 0.9868
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

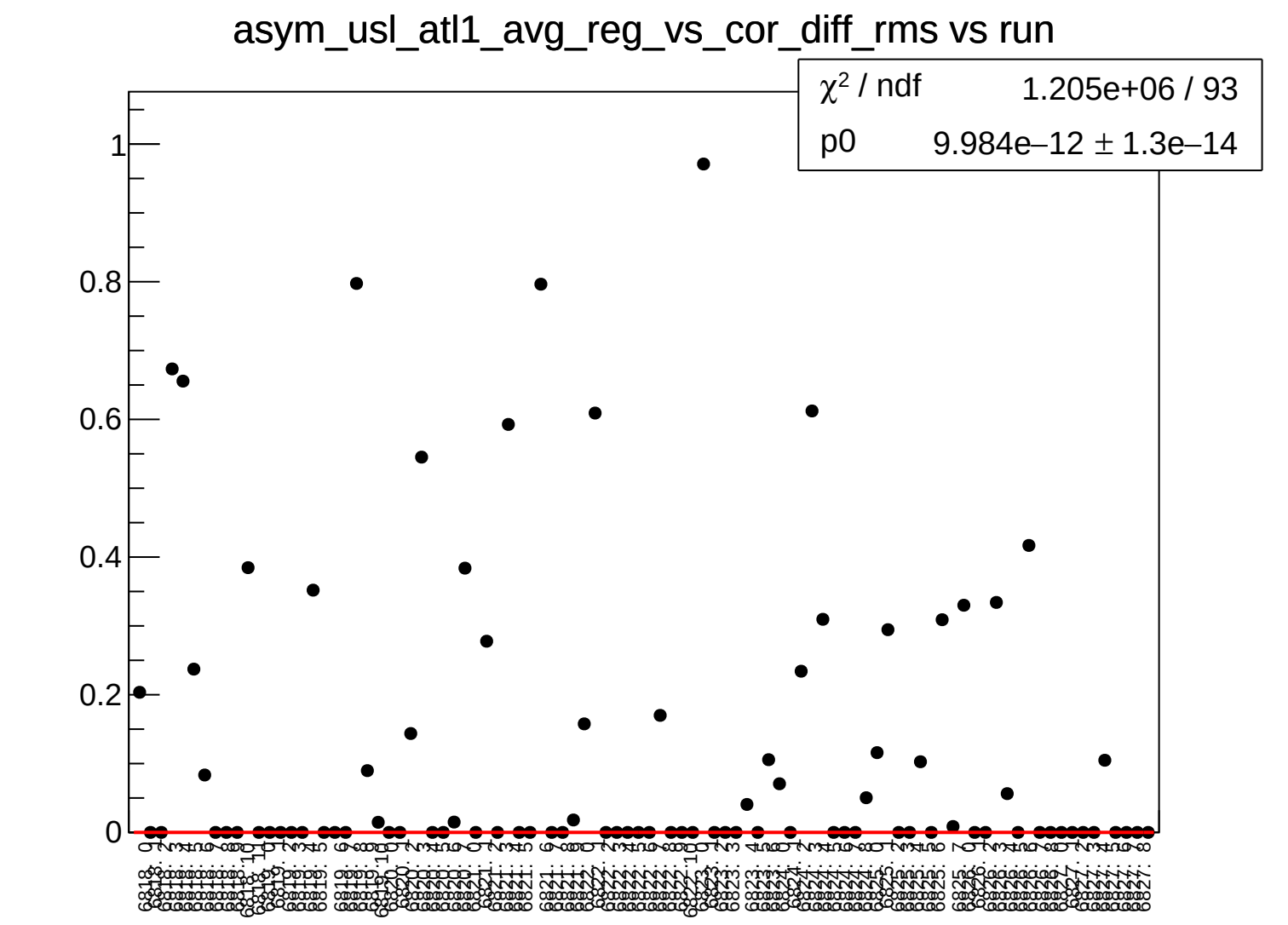

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4729 / 93
p0 787.9 ± 0.5888
1000
950
900
850
800
750
700

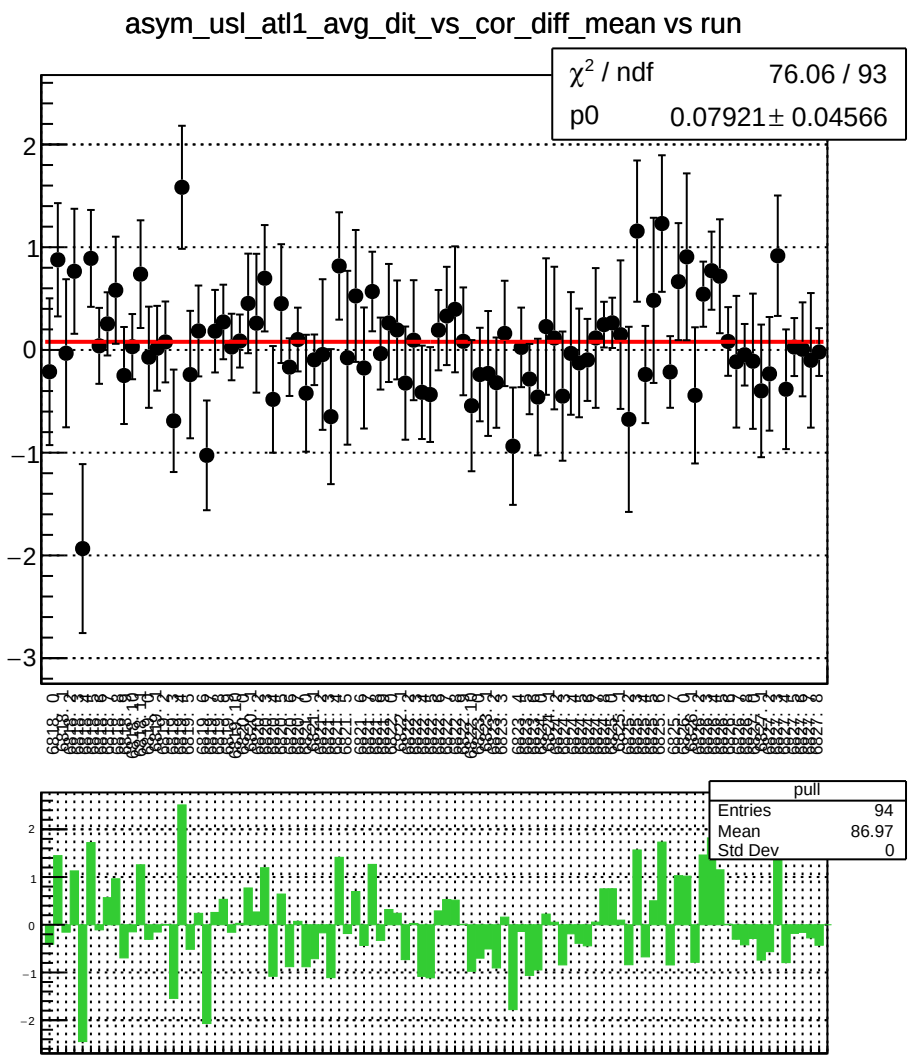

asym_usl_atl1_avg_mean vs run
χ² / ndf 69.62 / 93
p0 −1558 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −195.2
Std Dev 0
2
1
0
−1
−2

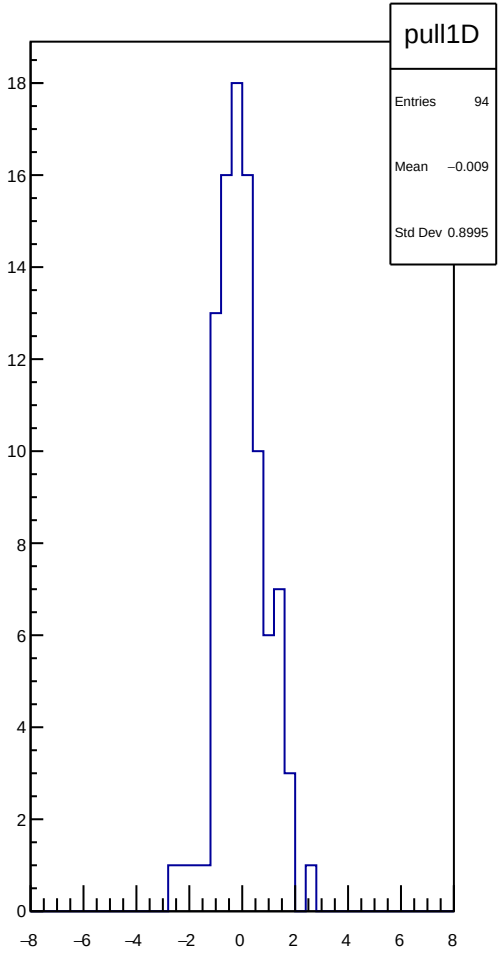

pull1D
Entries 94
Mean 0.004724
Std Dev 0.8606
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

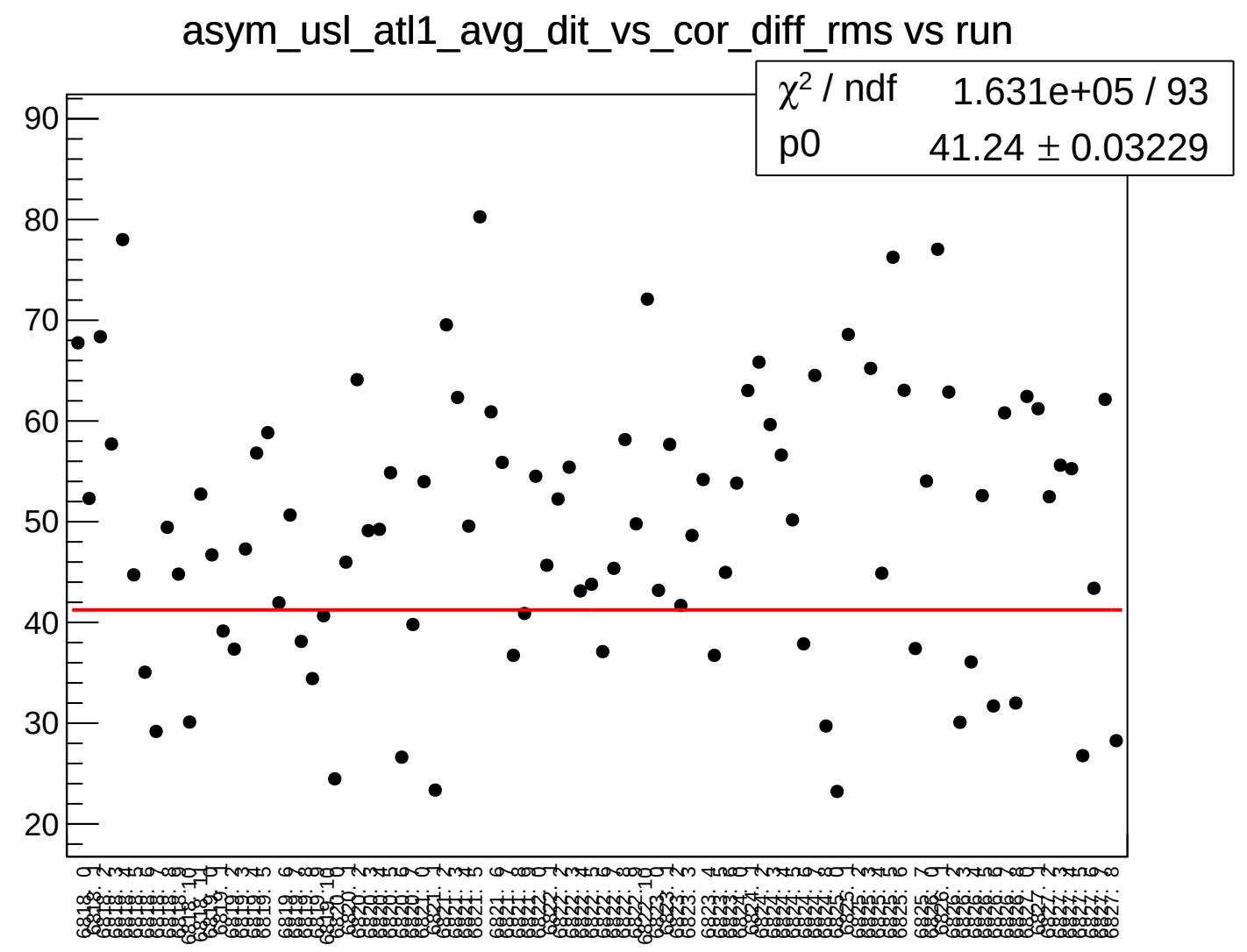

asym_usl_atl1_avg_rms vs run
χ² / ndf 476.6 / 93
p0 1669 ± 1.246
1800
1750
1700
1650
1600

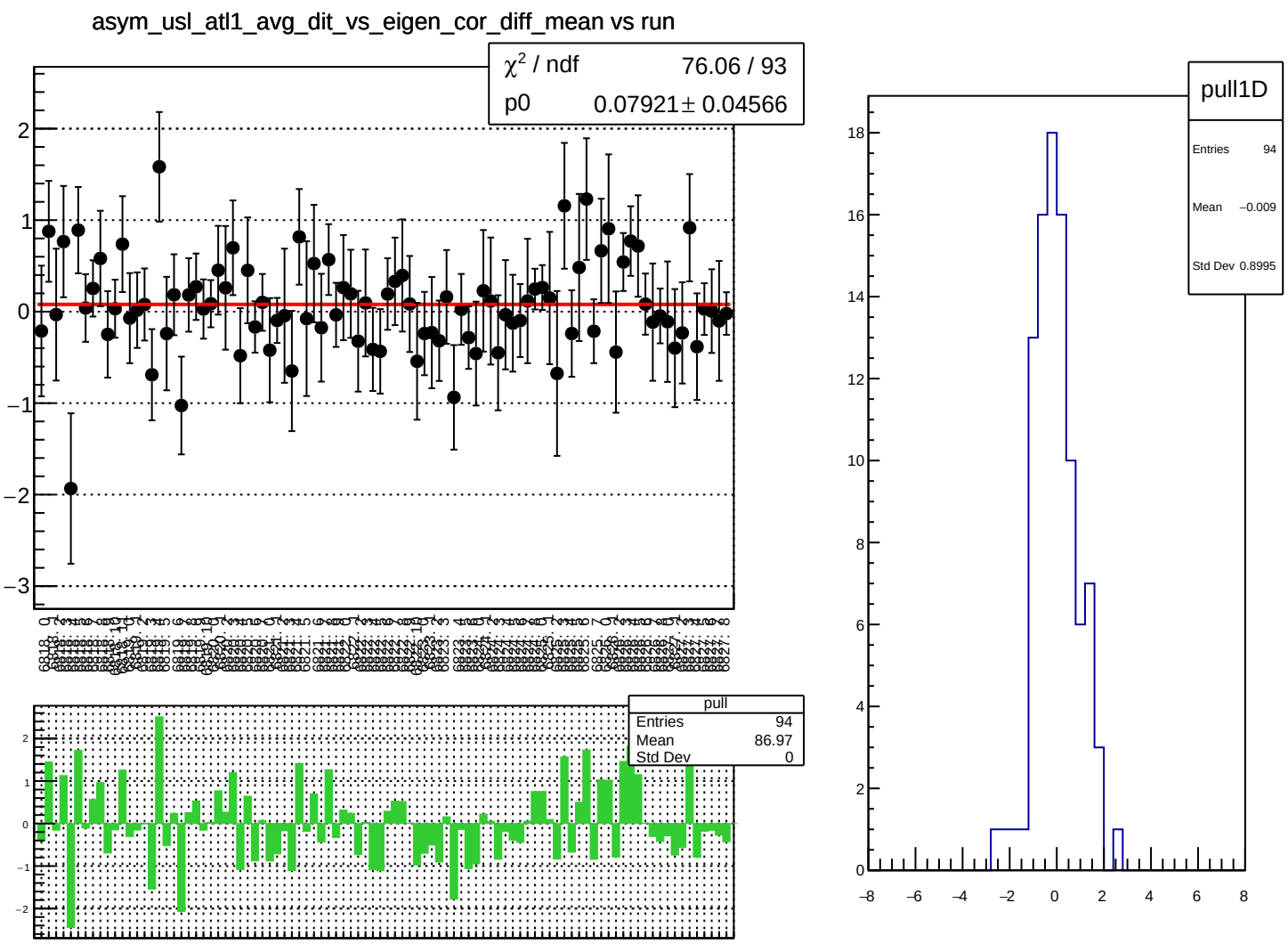

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.54 / 93
p0 3.059e−14 ± 1.838e−14
pull
Entries 94
Mean 22.44
Std Dev 0
pull1D
Entries 94
Mean −0.06161
Std Dev 0.9178

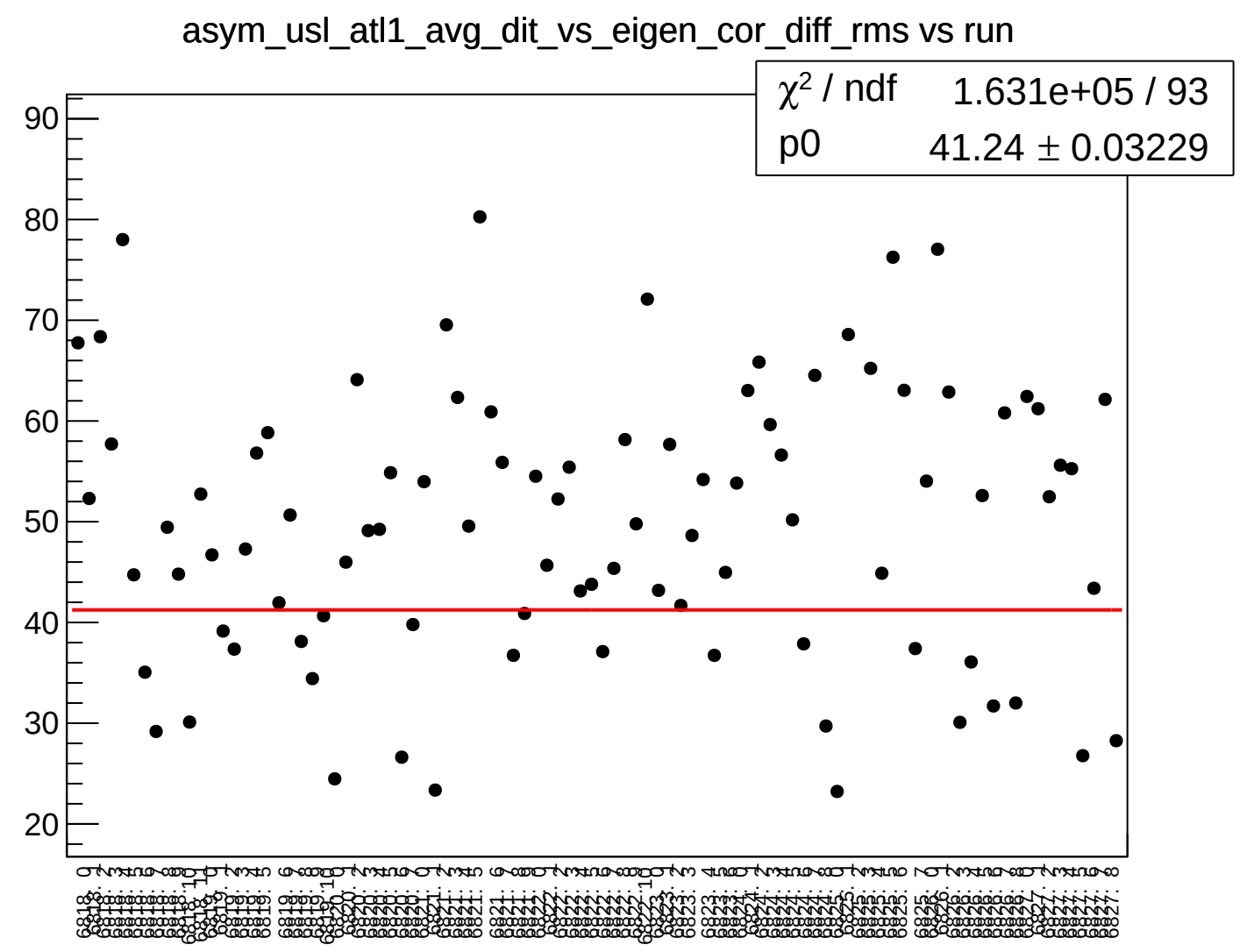

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 93
p0 9.984e−12 ± 1.3e−14
1
0.8
0.6
0.4
0.2
0

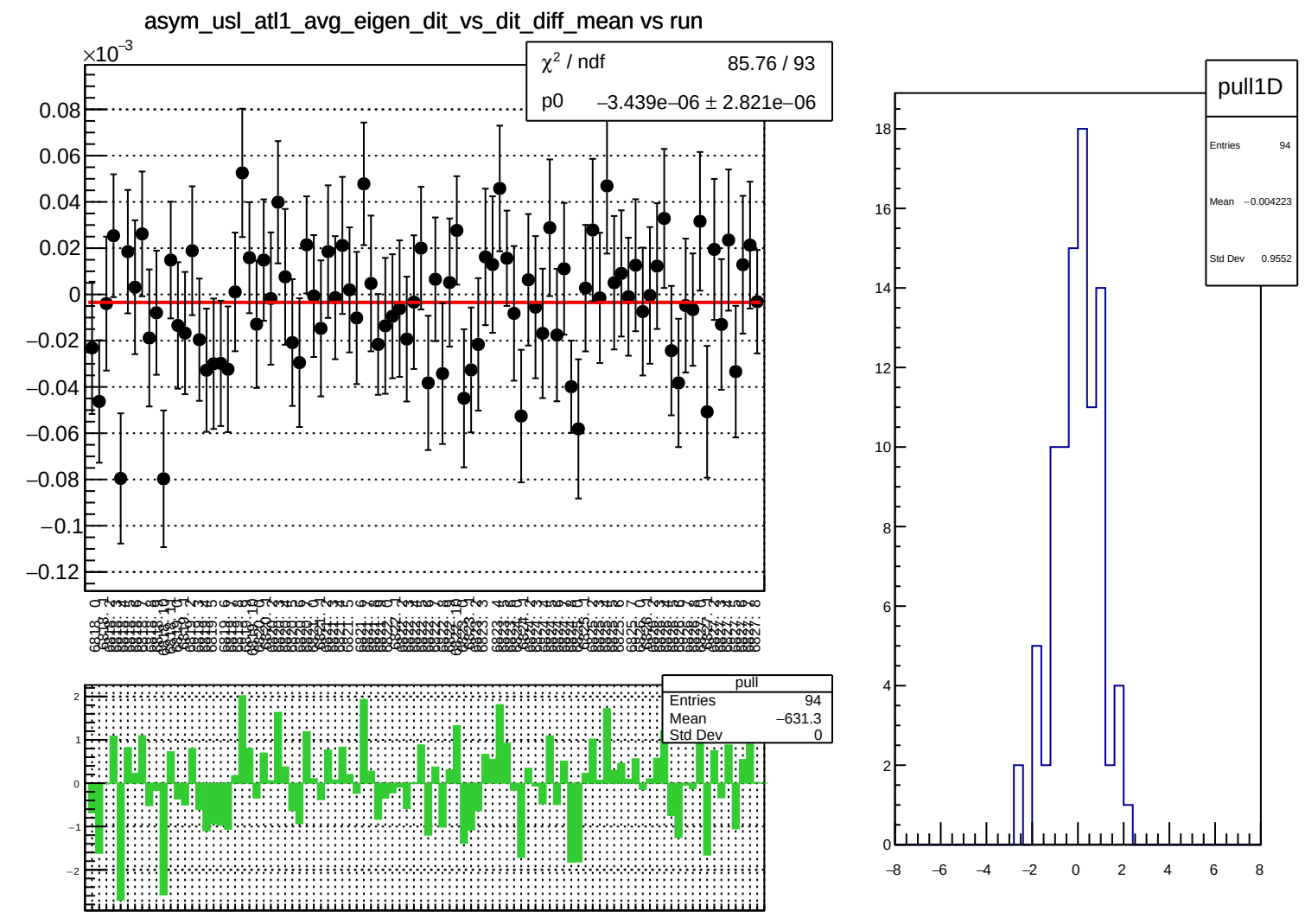

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.06 / 93
p0 0.07921 ± 0.04566
pull
Entries 94
Mean 86.97
Std Dev 0

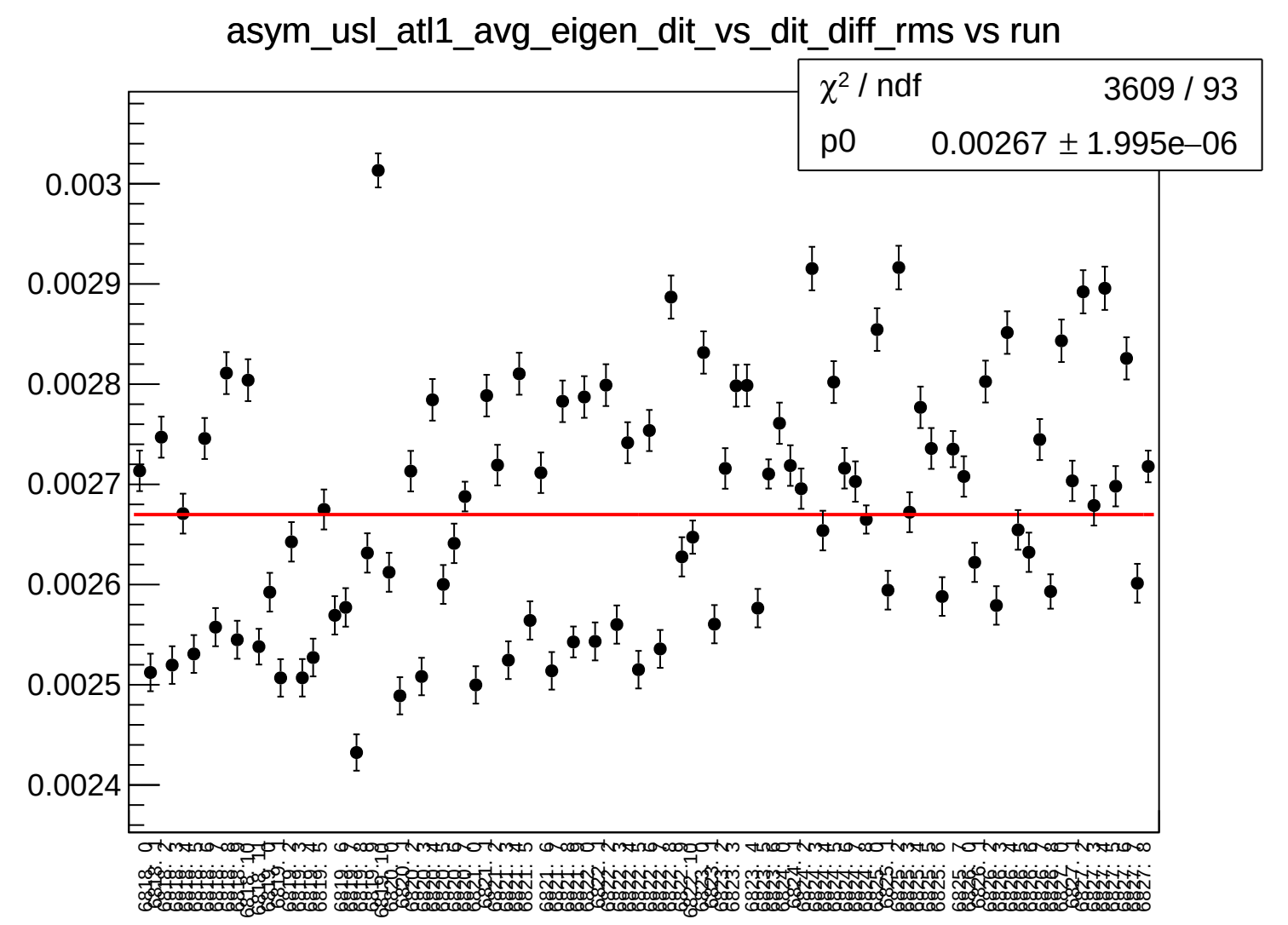

pull1D
Entries 94
Mean −0.009
Std Dev 0.8995

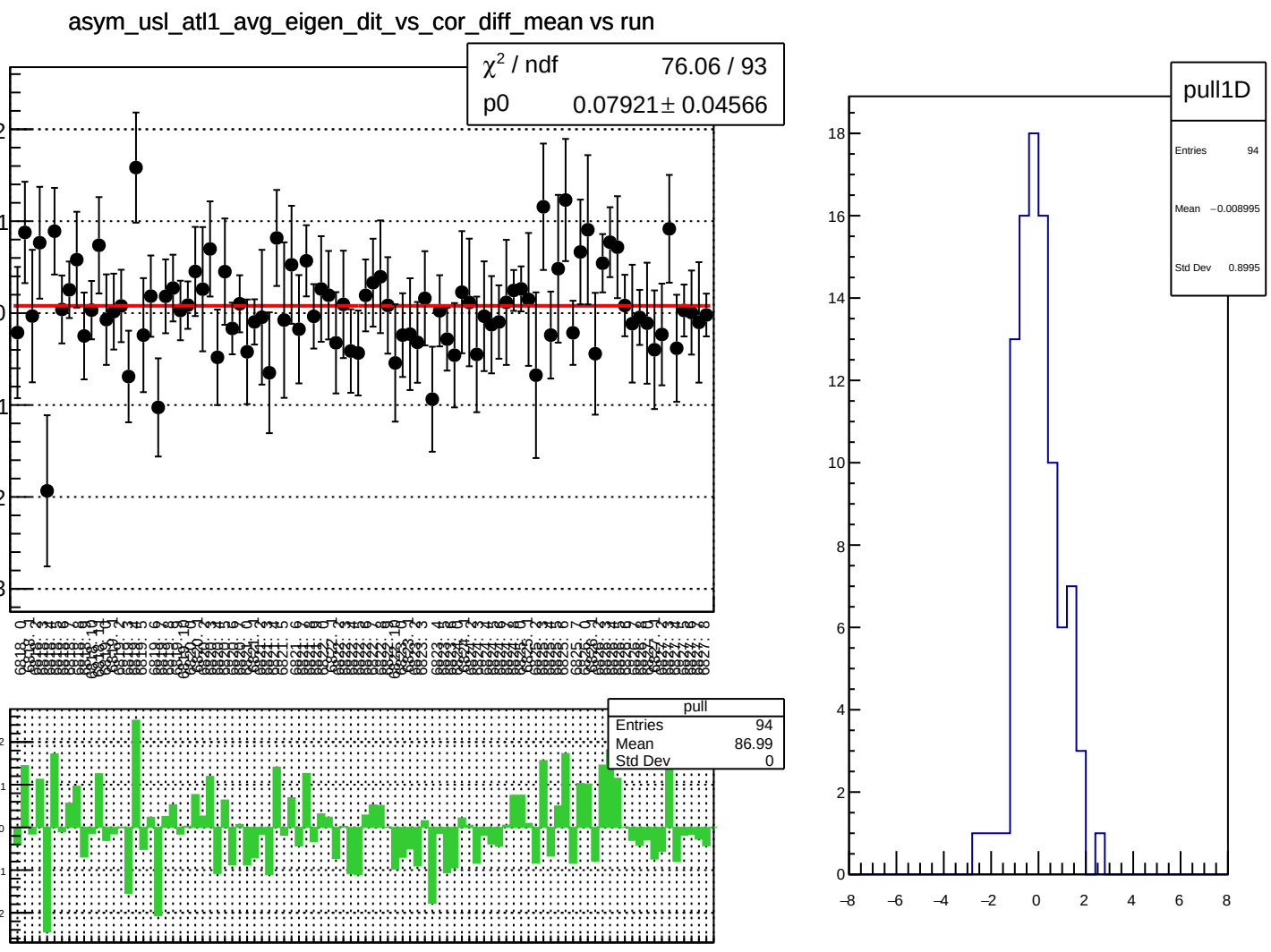

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 93
p0 41.24 ± 0.03229
90
80
70
60
50
40
30
20

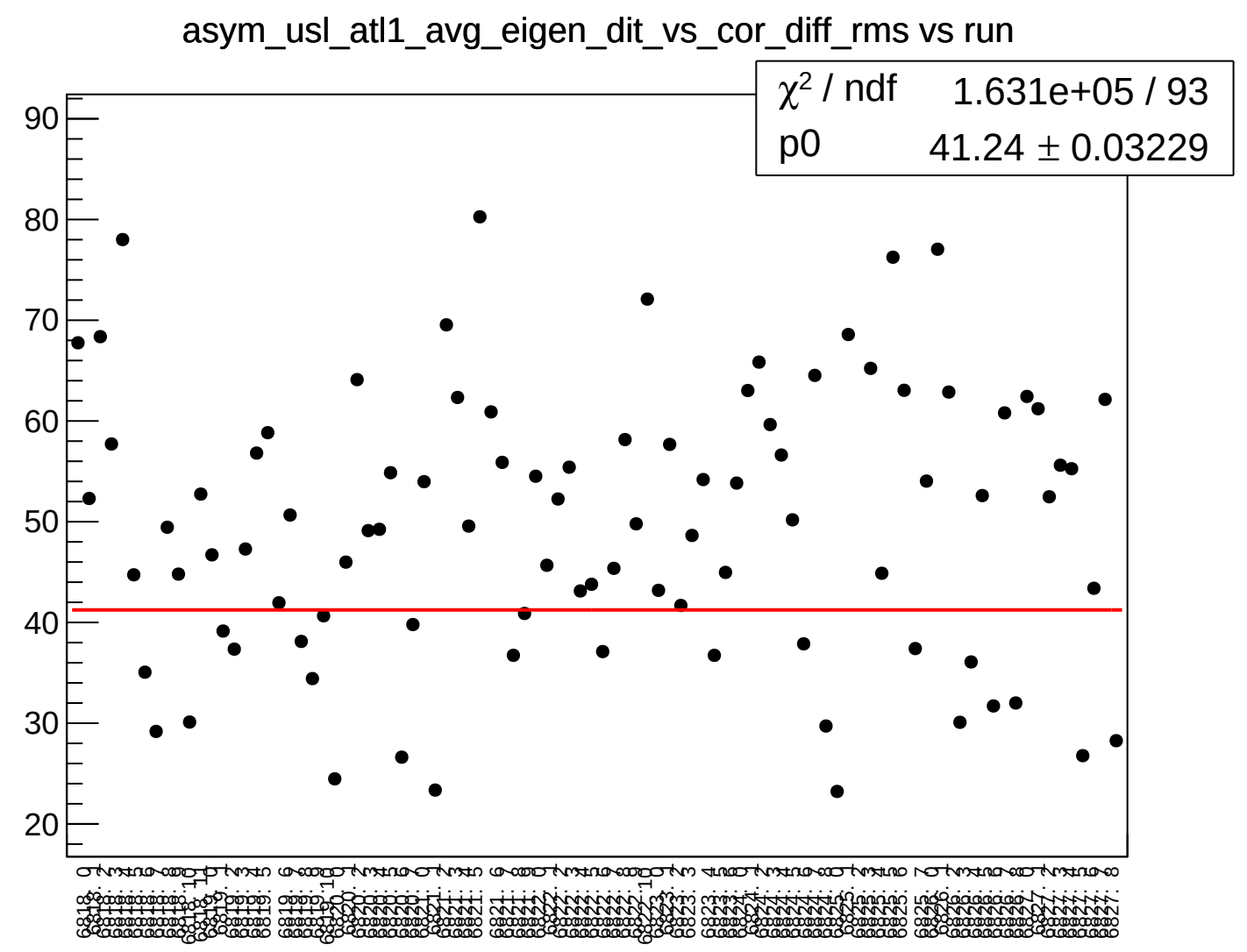

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.06 / 93
p0 0.07921 ± 0.04566
pull
Entries 94
Mean 86.97
Std Dev 0
pull1D
Entries 94
Mean −0.009
Std Dev 0.8995

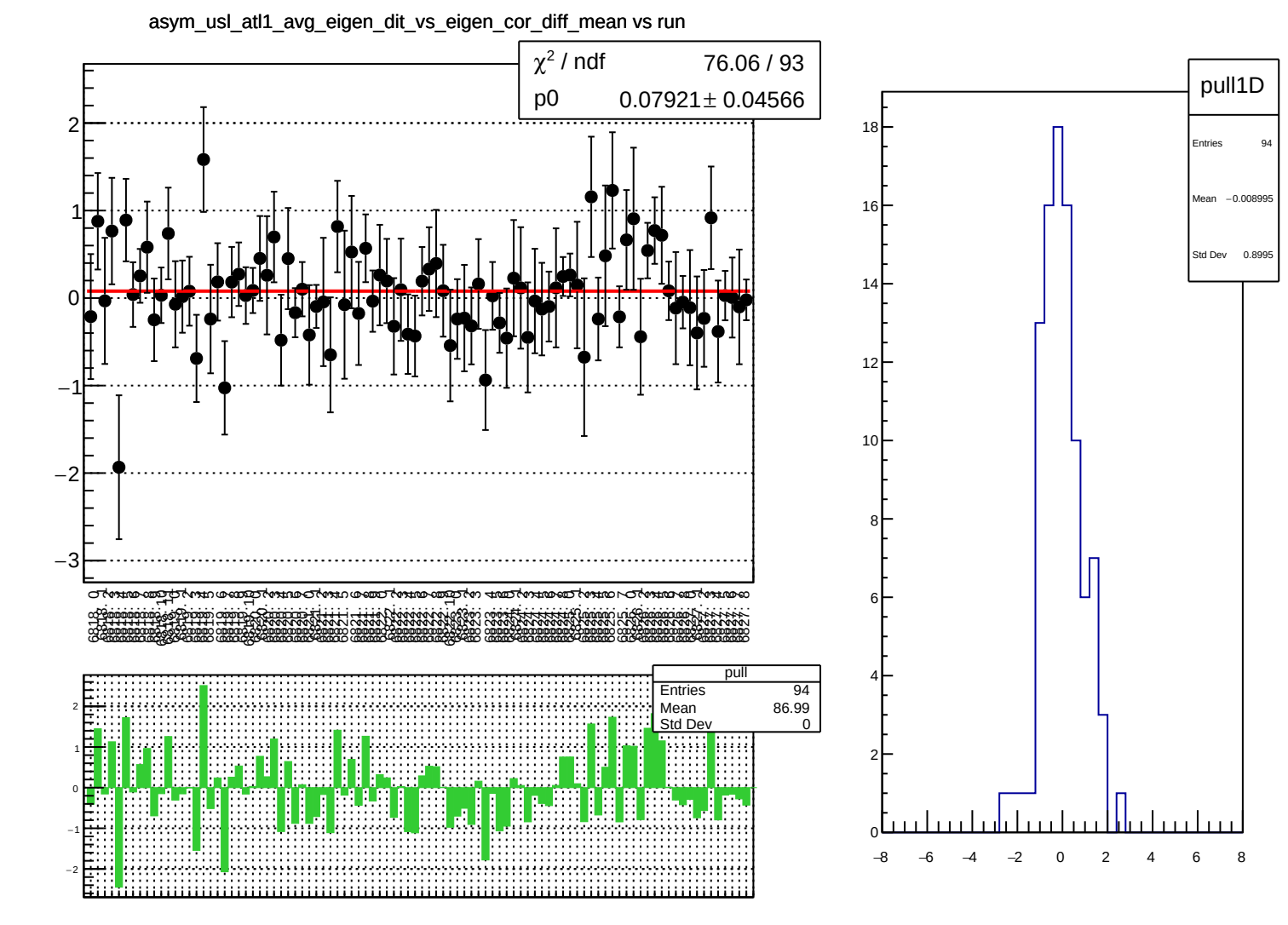

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 93
p0 41.24 ± 0.03229
90
80
70
60
50
40
30
20

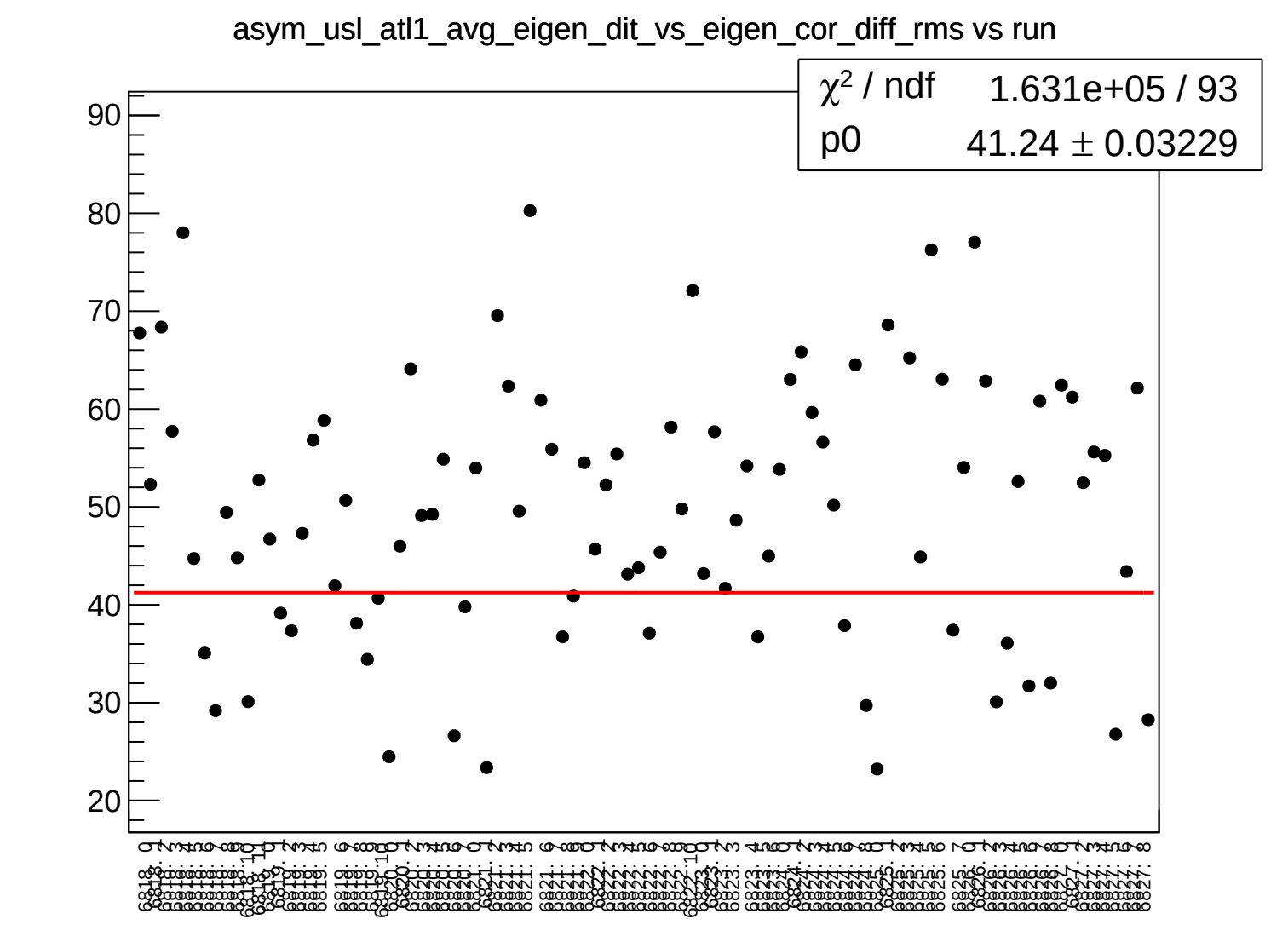

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.76 / 93
p0 −3.439e−06 ± 2.821e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 94
Mean −631.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004223
Std Dev 0.9552
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

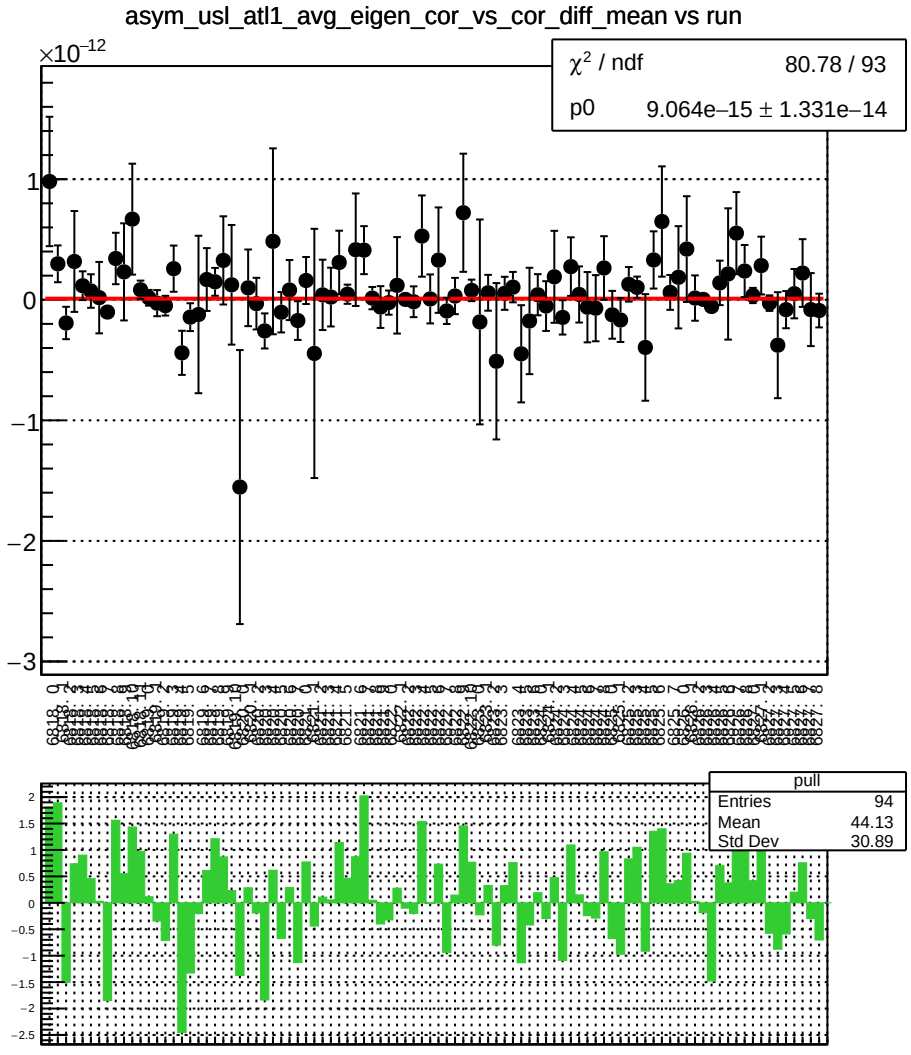

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3609 / 93
p0 0.00267 ± 1.995e–06
0.003
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024

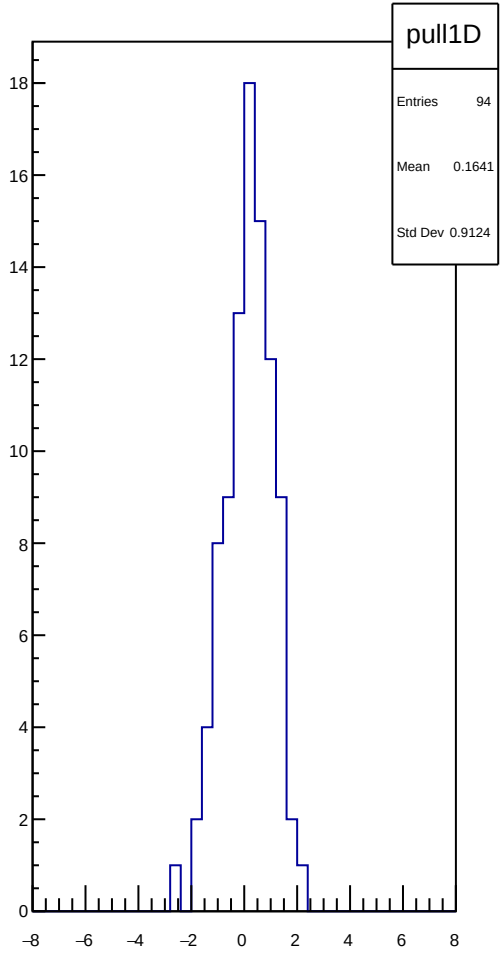

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.06 / 93
p0 0.07921 ± 0.04566
pull
Entries 94
Mean 86.99
Std Dev 0
pull1D
Entries 94
Mean −0.008995
Std Dev 0.8995

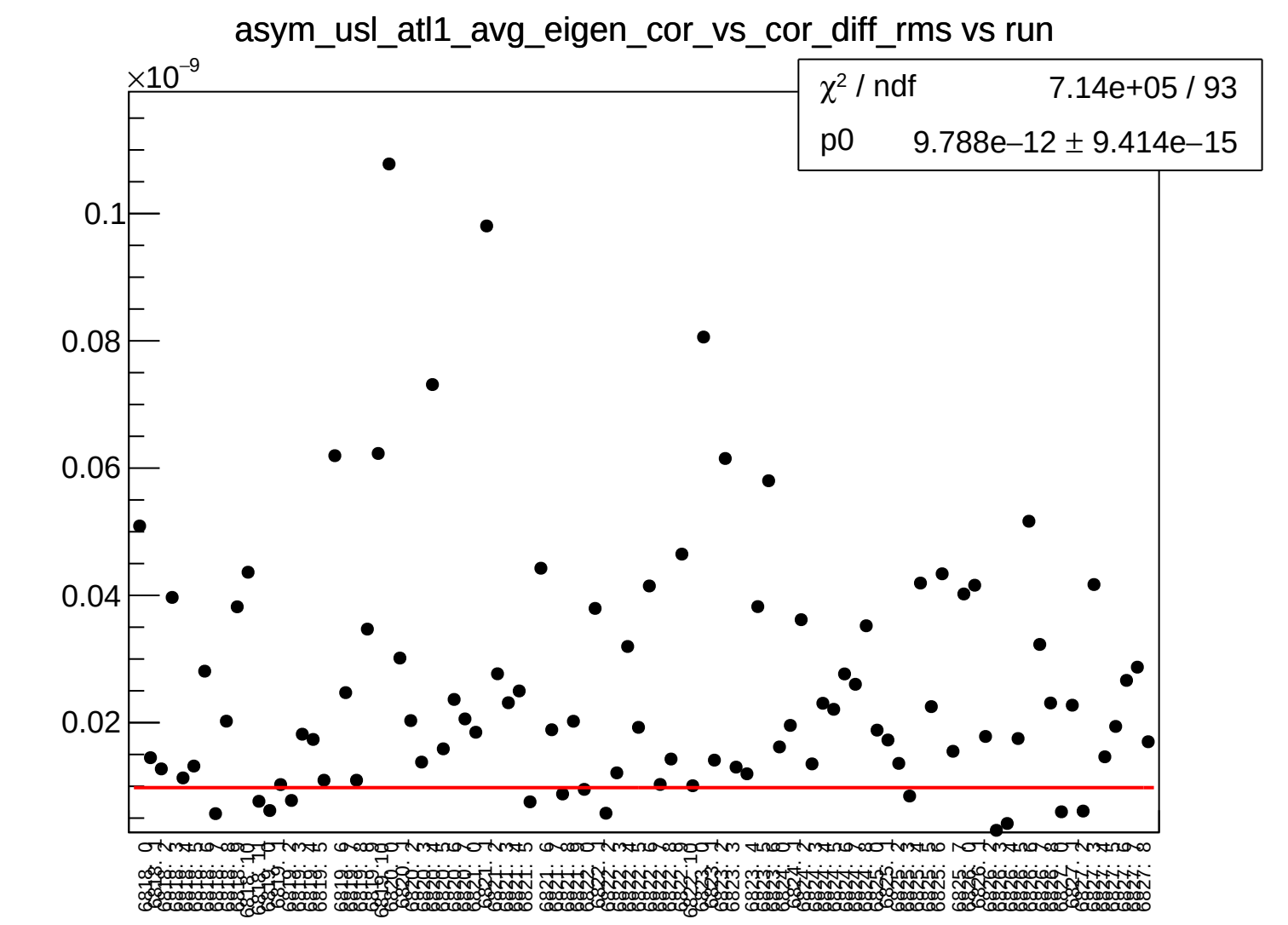

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 93
p0 41.24 ± 0.03229
90
80
70
60
50
40
30
20

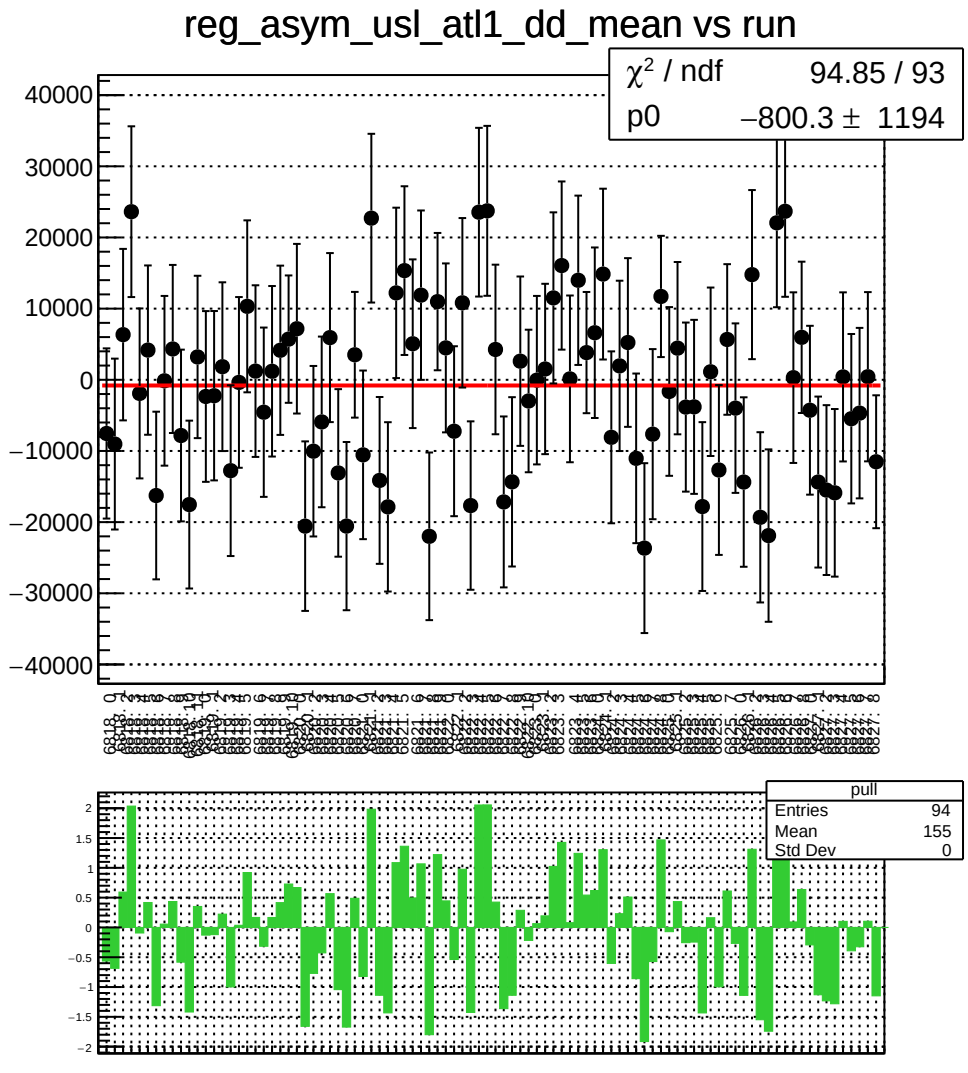

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.06 / 93
p0 0.07921 ± 0.04566
pull
Entries 94
Mean 86.99
Std Dev 0
pull1D
Entries 94
Mean −0.008995
Std Dev 0.8995

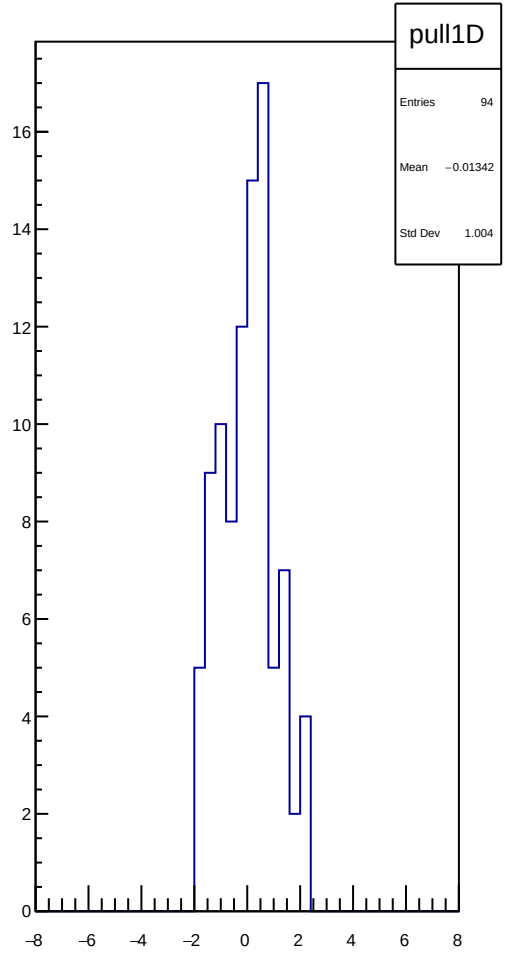

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.631e+05 / 93
p0 41.24 ± 0.03229
90
80
70
60
50
40
30
20

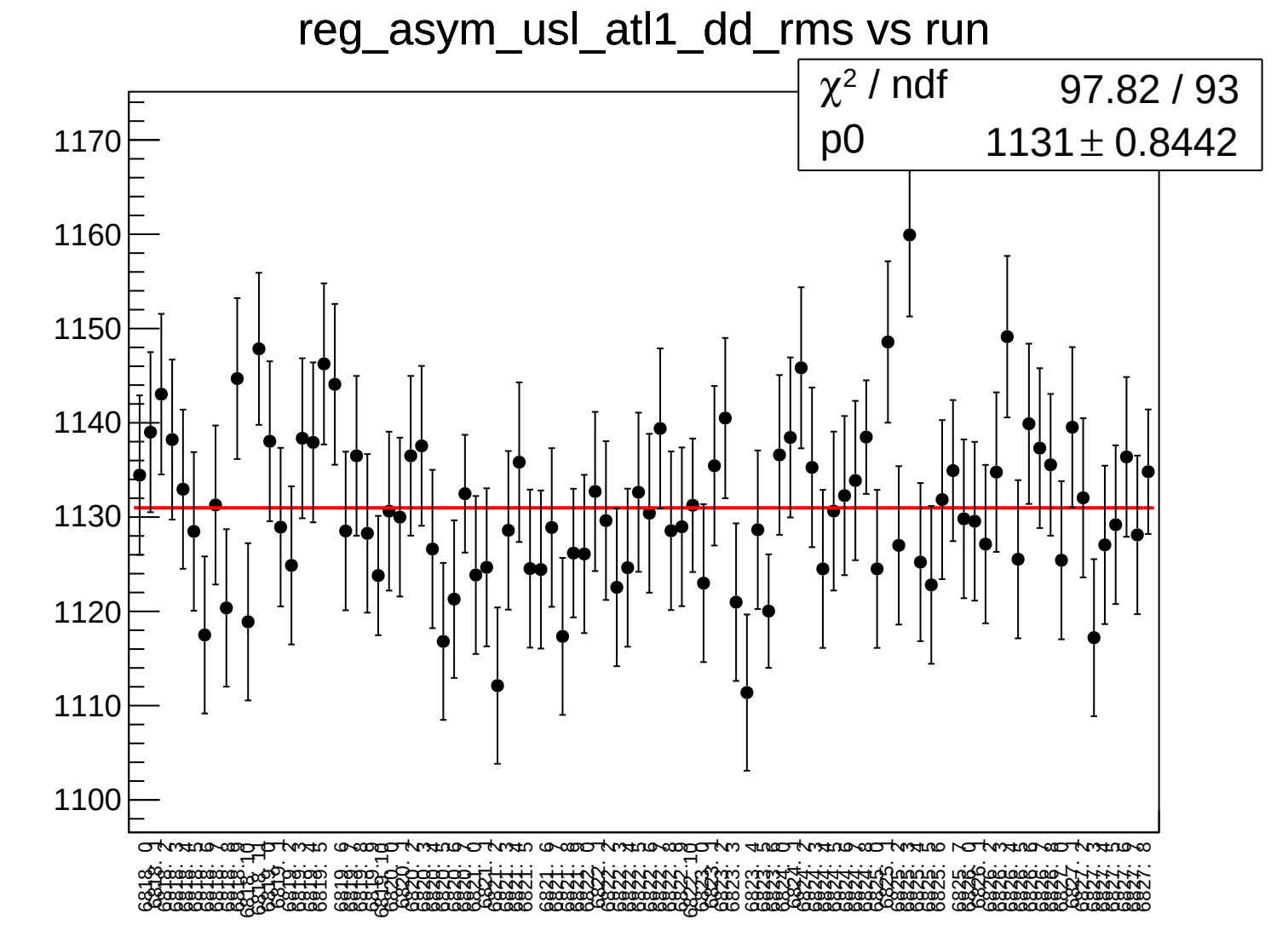

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.78 / 93
p0 9.064e−15 ± 1.331e−14
pull
Entries 94
Mean 44.13
Std Dev 30.89

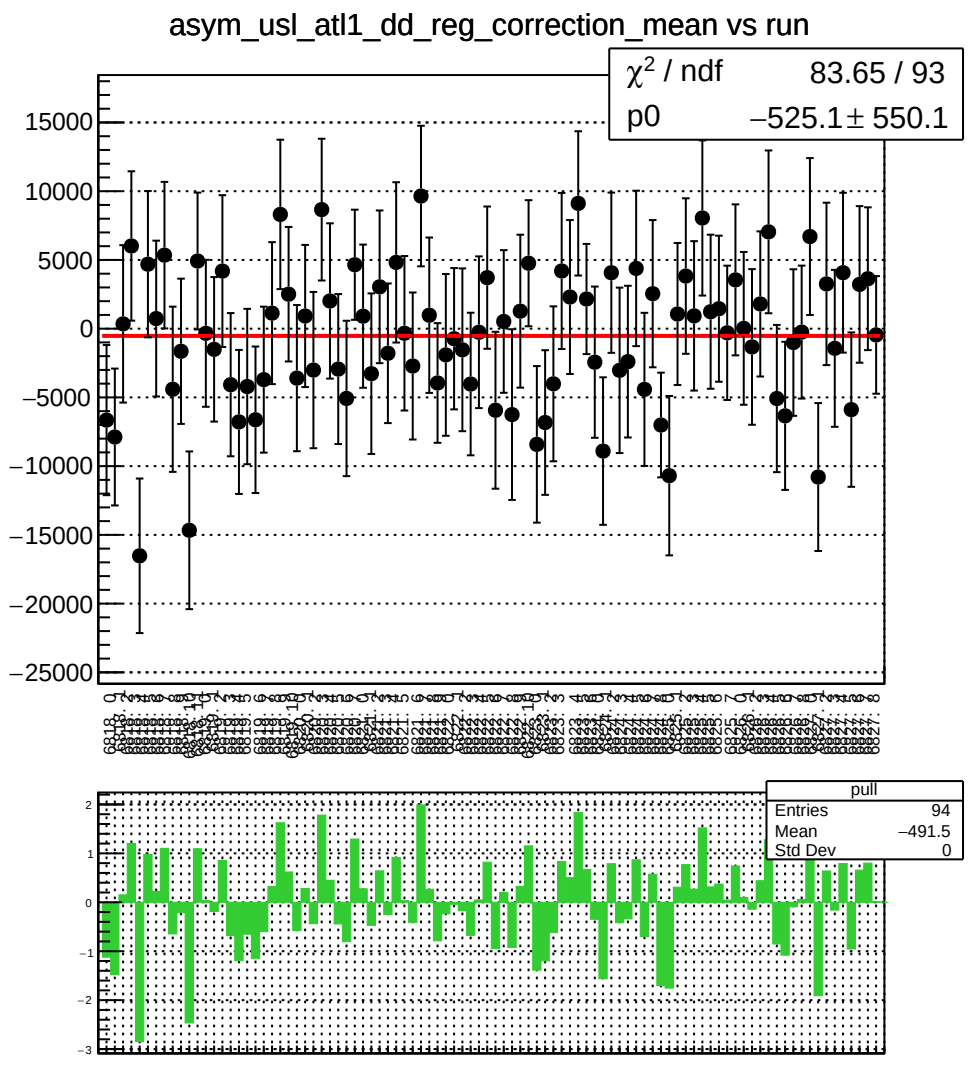

pull1D
Entries 94
Mean 0.1641
Std Dev 0.9124

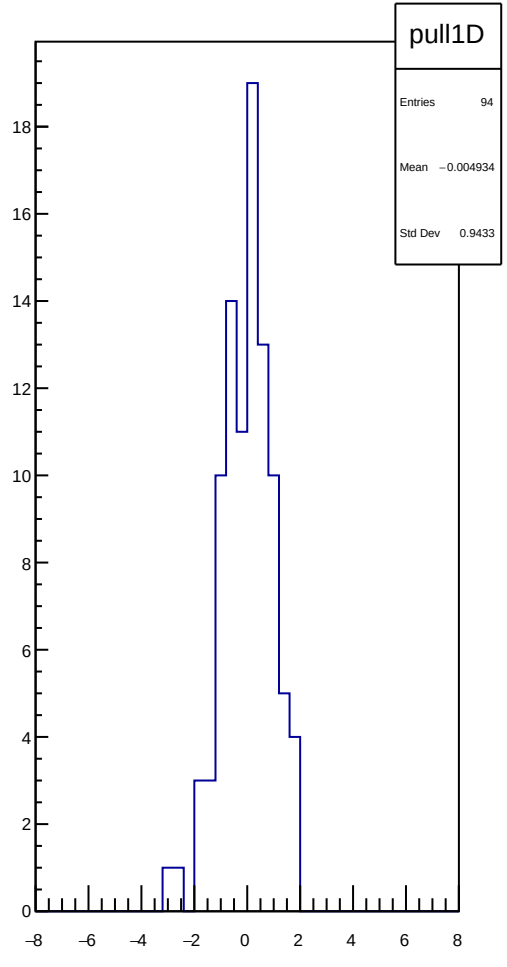

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.14e+05 / 93
p0 9.788e−12 ± 9.414e−15
0.1
0.08
0.06
0.04
0.02

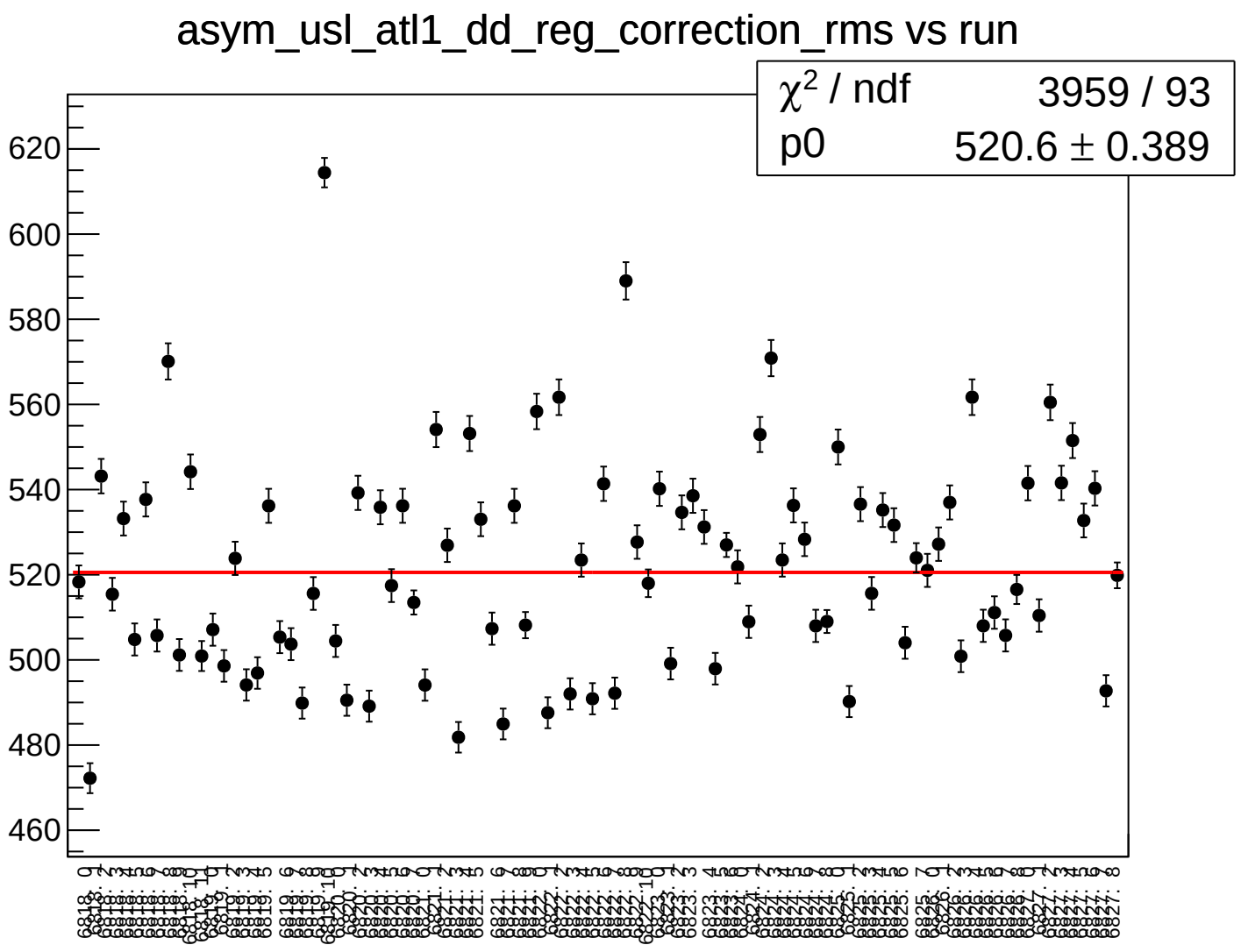

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.85 / 93
p0 −800.3 ± 1194
pull
Entries 94
Mean 155
Std Dev 0

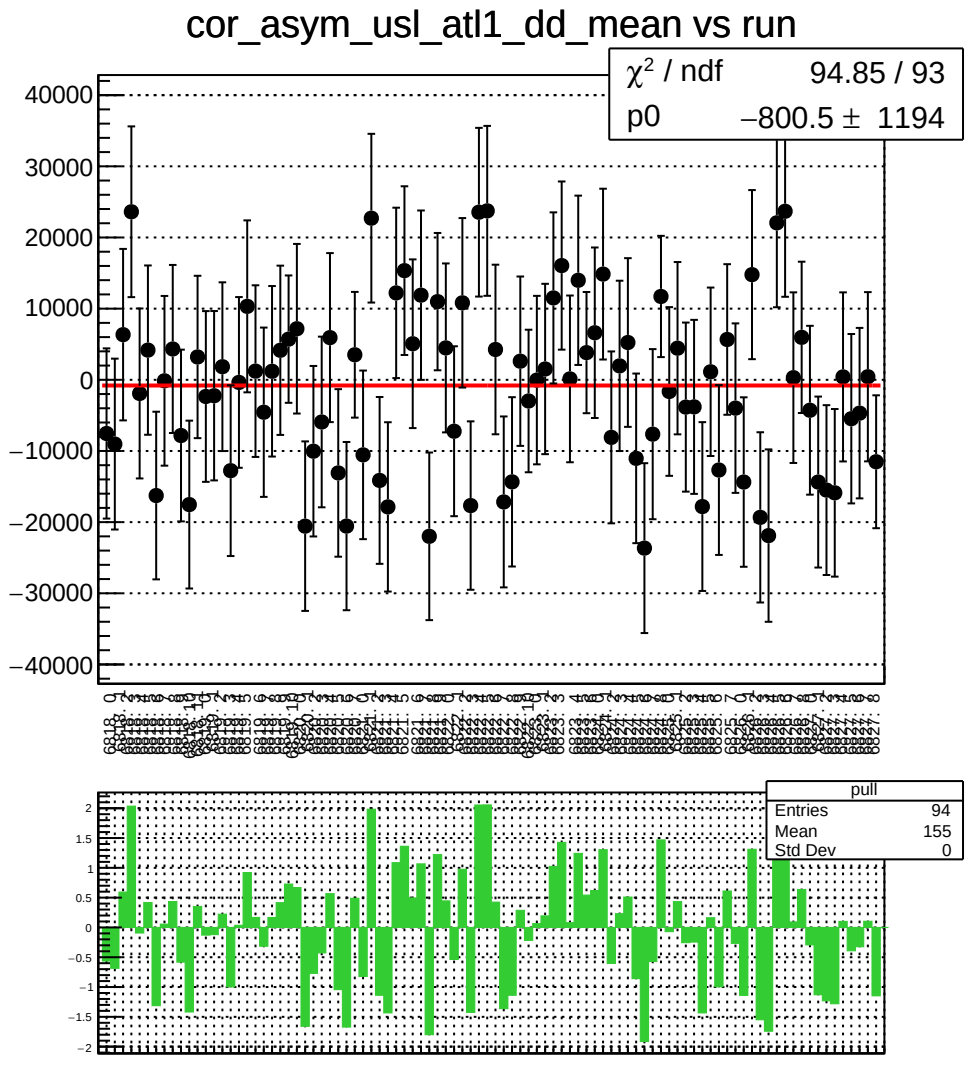

pull1D
Entries 94
Mean −0.01342
Std Dev 1.004

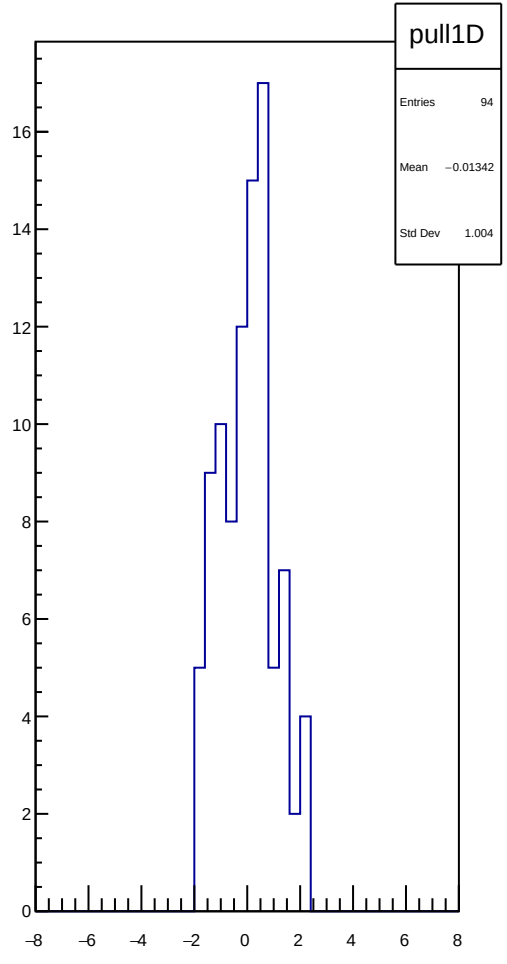

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 97.82 / 93
p0 1131 ± 0.8442
1170
1160
1150
1140
1130
1120
1110
1100

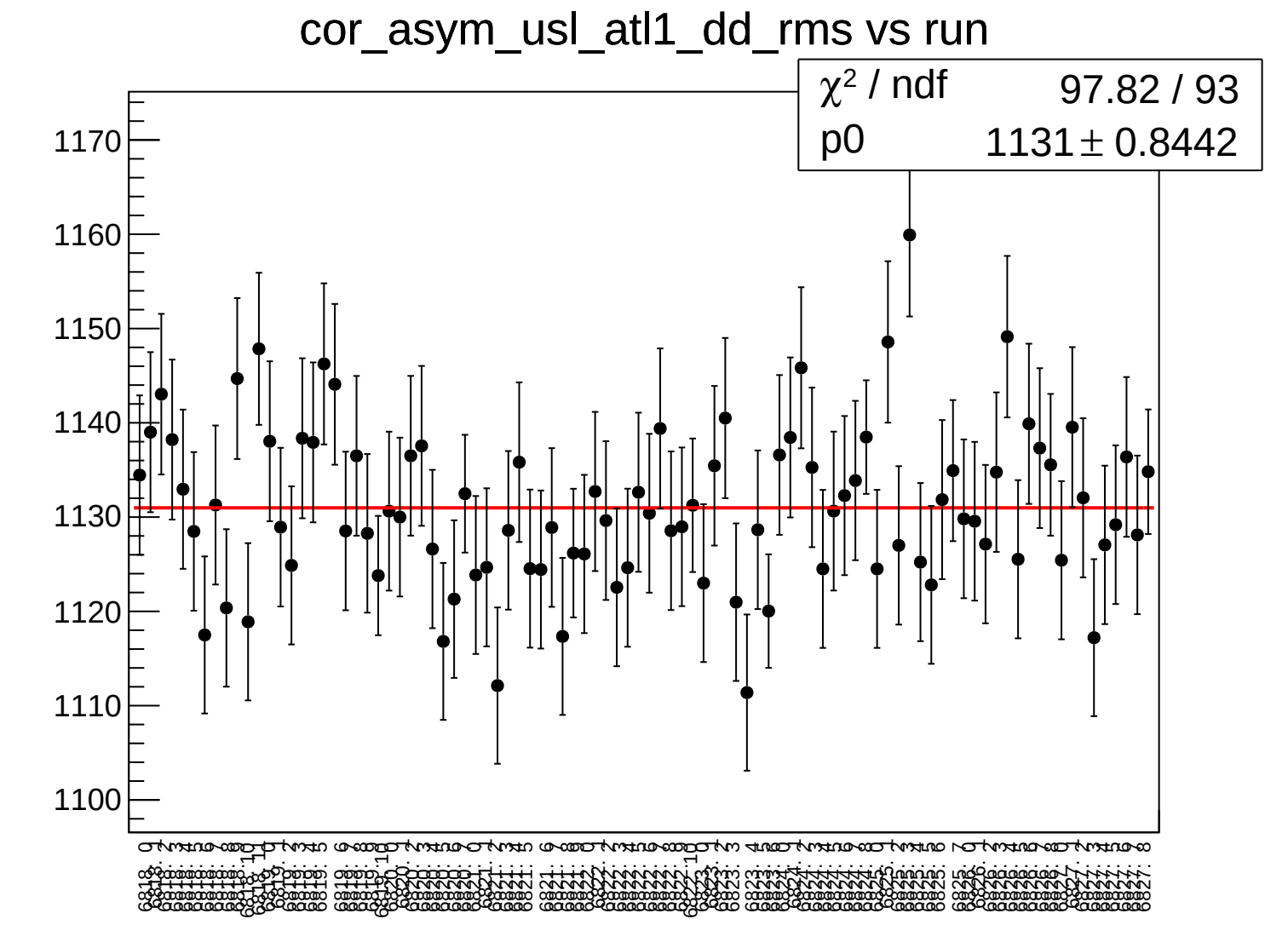

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 83.65 / 93
p0 −525.1 ± 550.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −491.5
Std Dev 0
2
1
0
−1
−2
−3

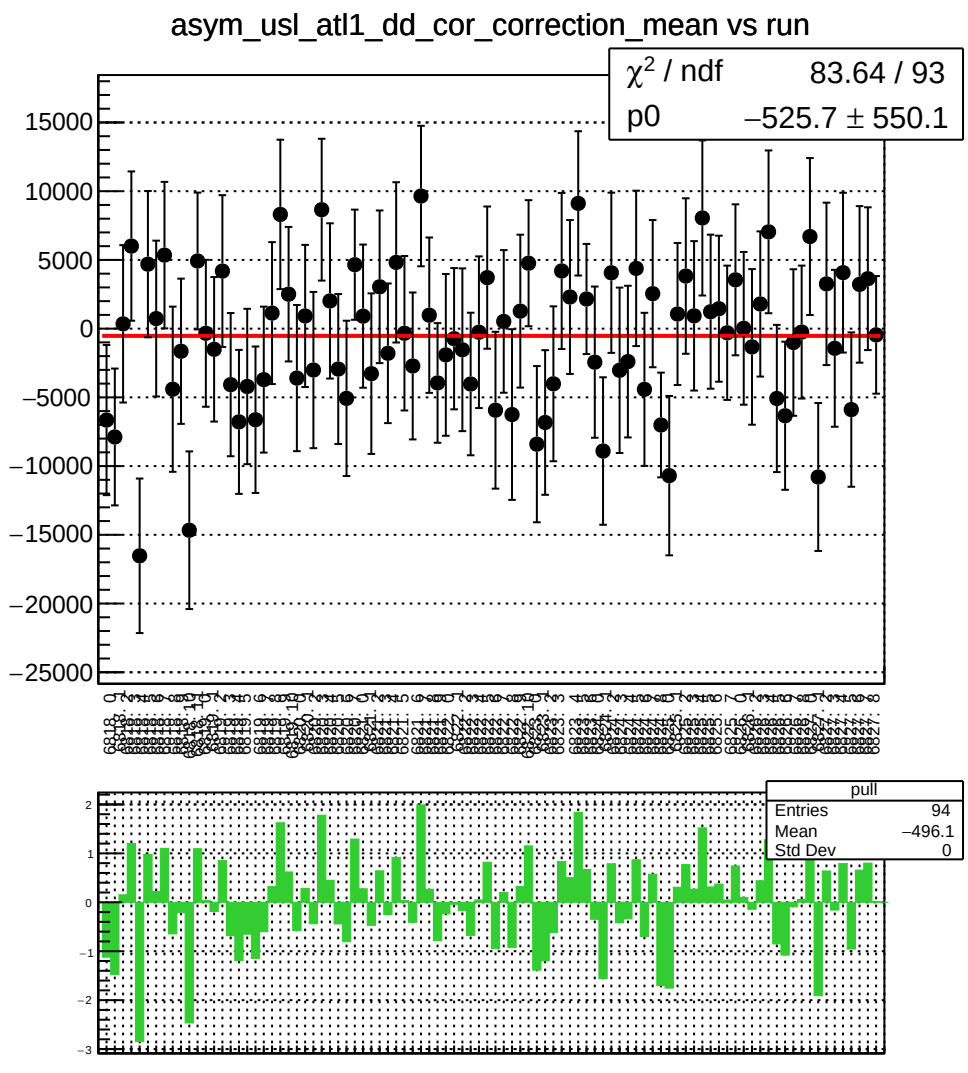

pull1D
Entries 94
Mean −0.004934
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

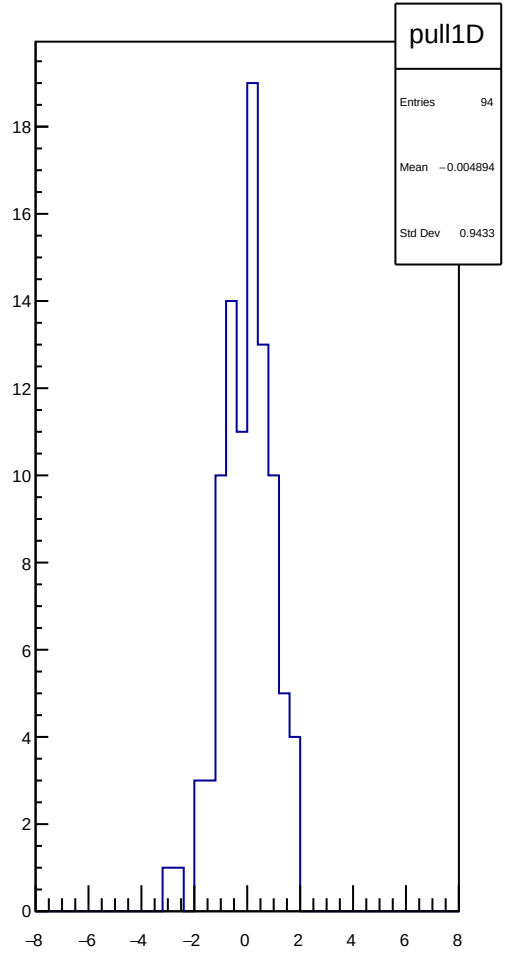

asym_usl_atl1_dd_reg_correction_rms vs run
χ^2 / ndf 3959 / 93
p0 520.6 ± 0.389
620
600
580
560
540
520
500
480
460

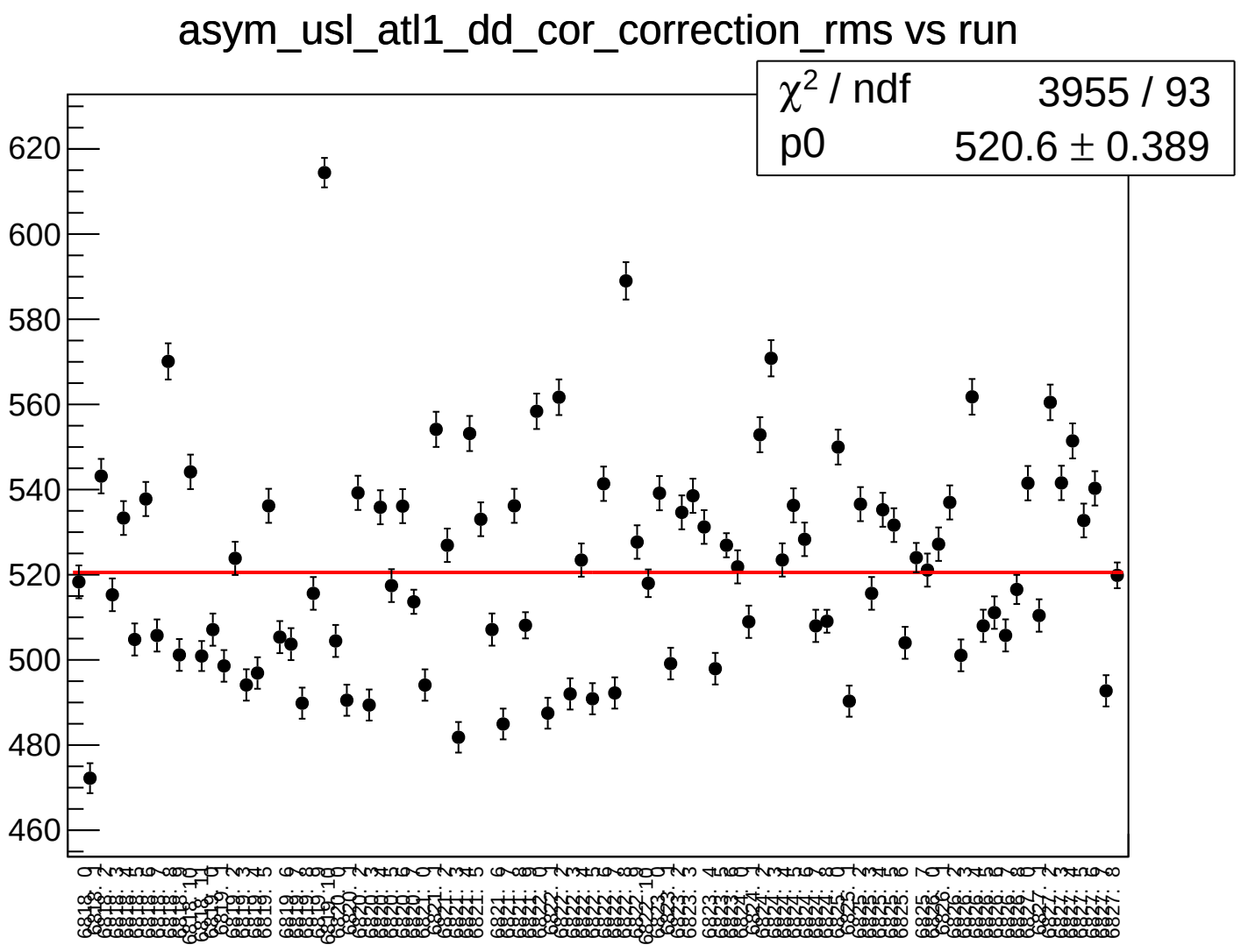

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.85 / 93
p0 −800.5 ± 1194
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 155
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

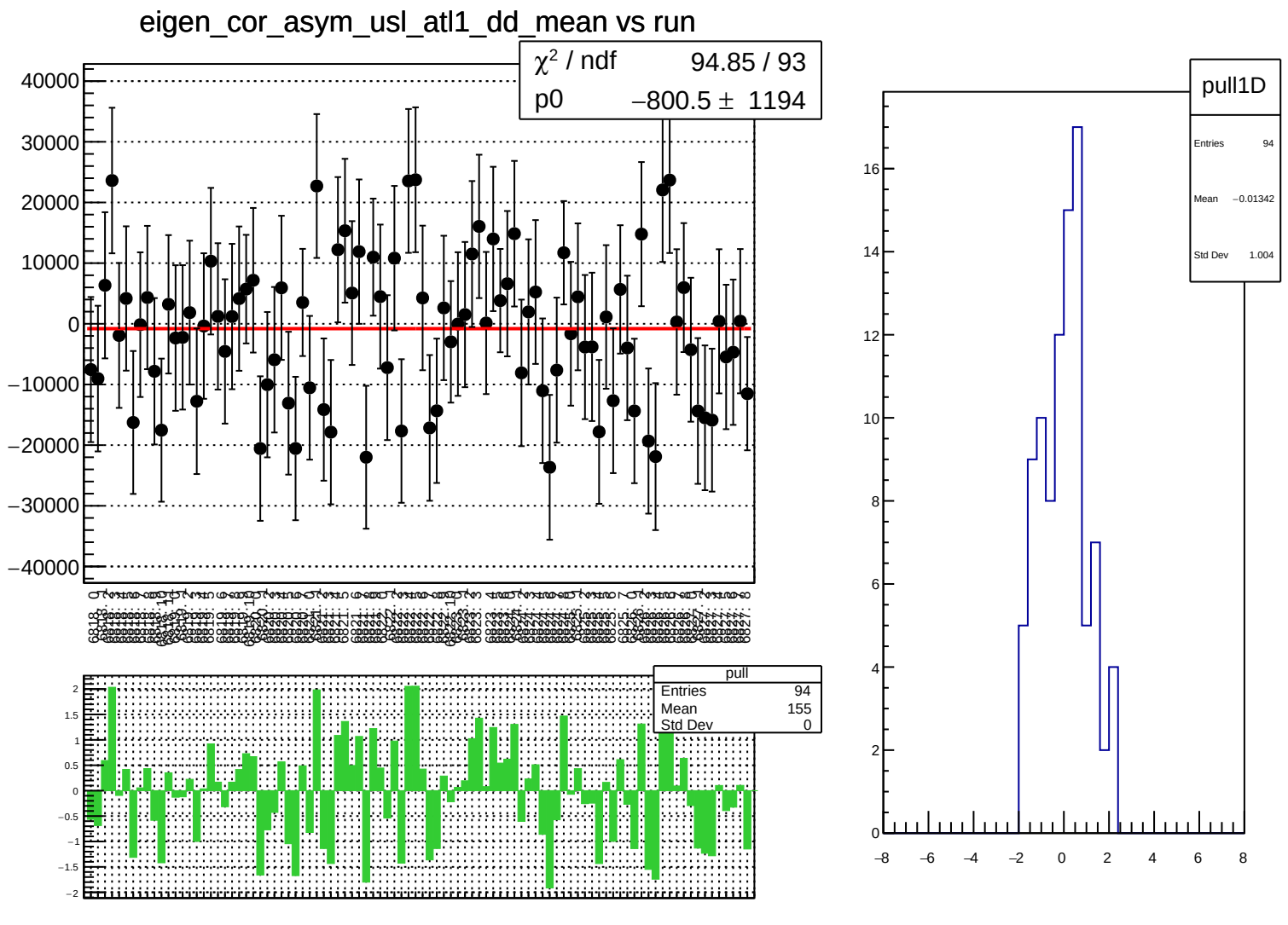

pull1D
Entries 94
Mean −0.01342
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

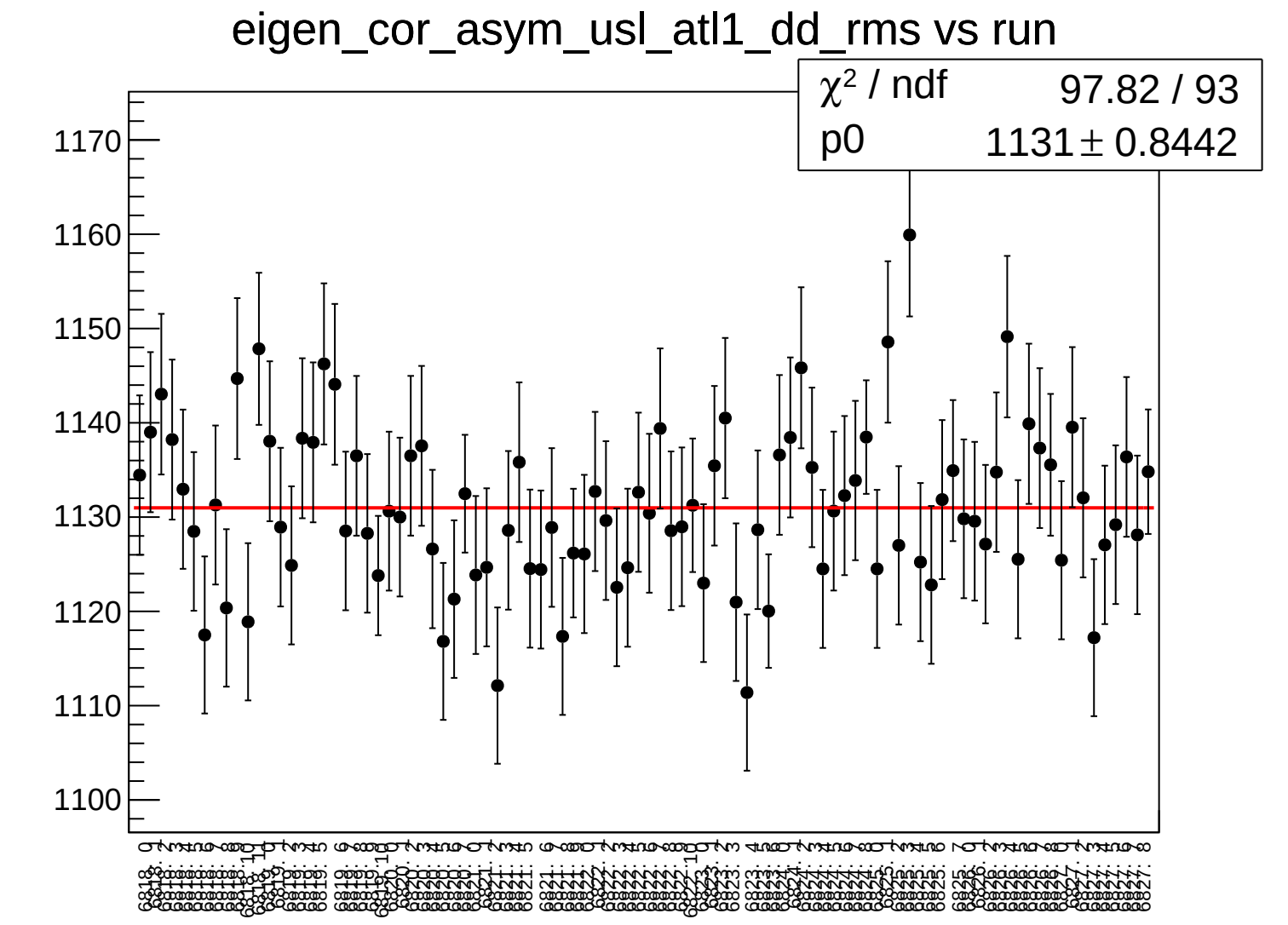

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 97.82 / 93
p0 1131 ± 0.8442
1170
1160
1150
1140
1130
1120
1110
1100

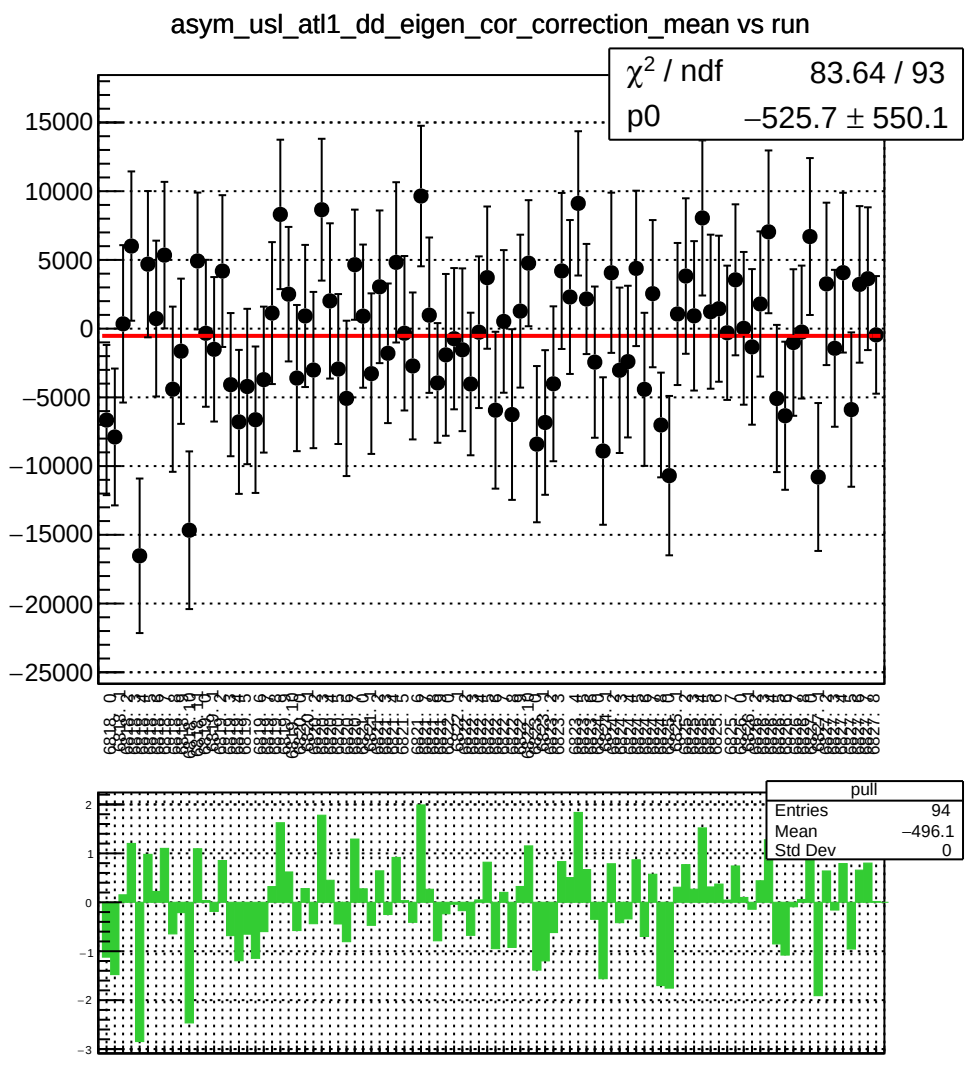

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 83.64 / 93
p0 −525.7 ± 550.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −496.1
Std Dev 0
2
1
0
−1
−2
−3

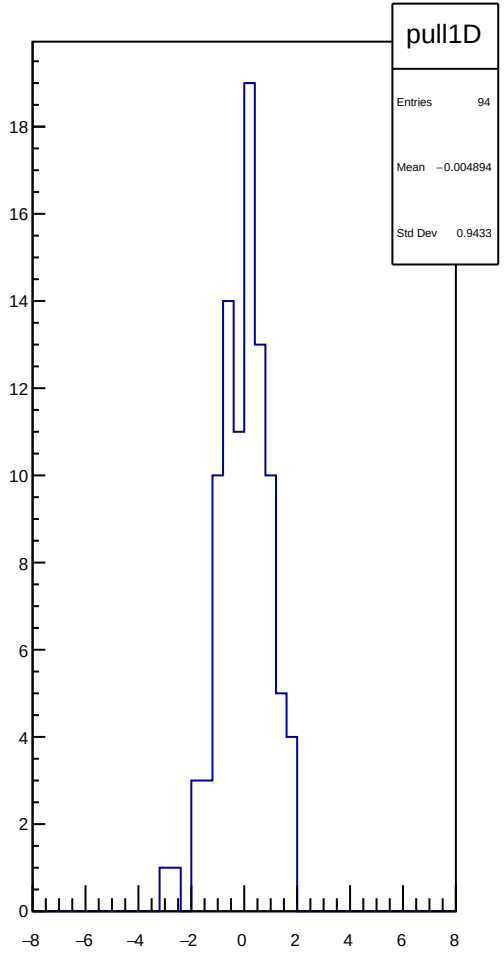

pull1D
Entries 94
Mean −0.004894
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

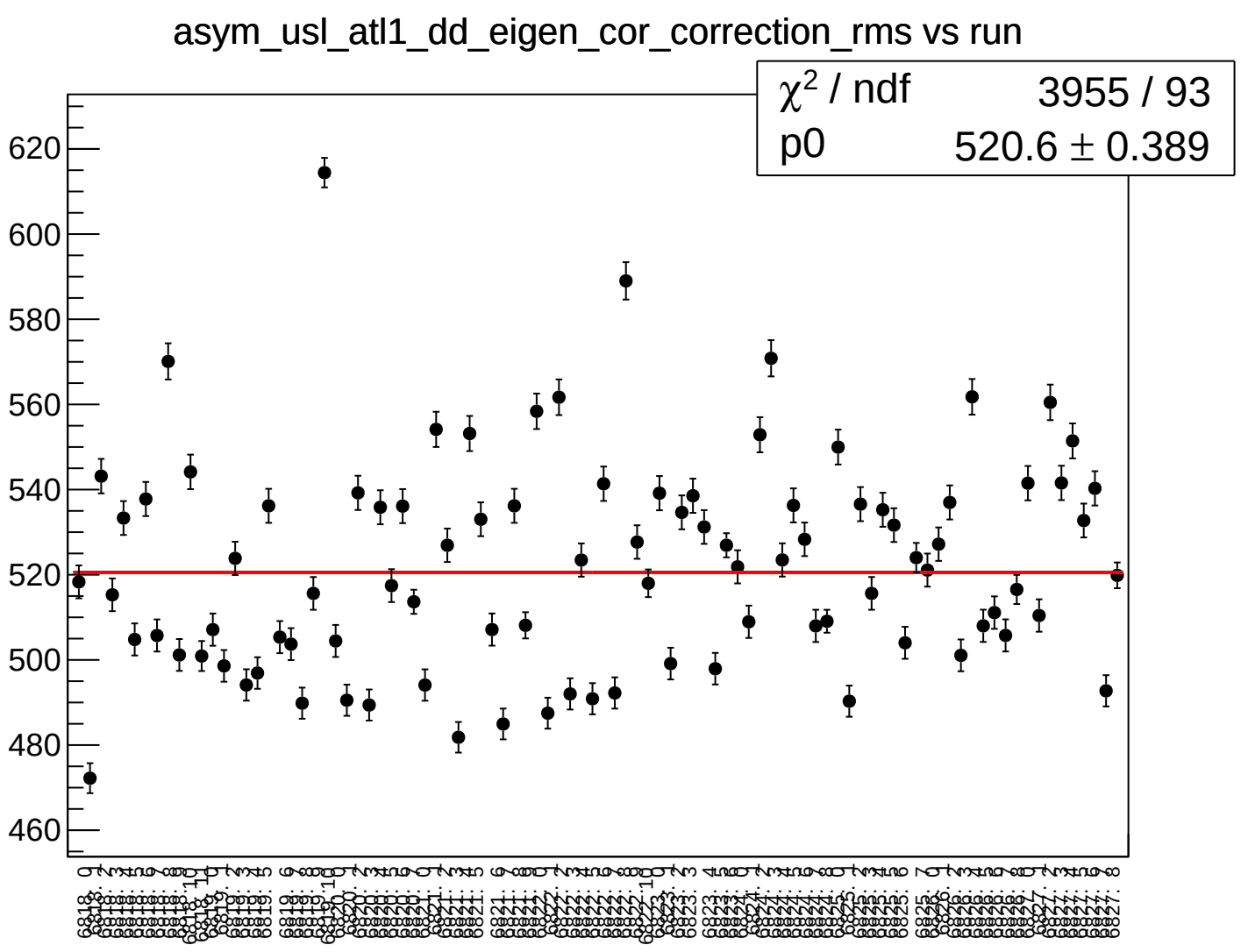

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 3955 / 93
p0 520.6 ± 0.389
620
600
580
560
540
520
500
480
460

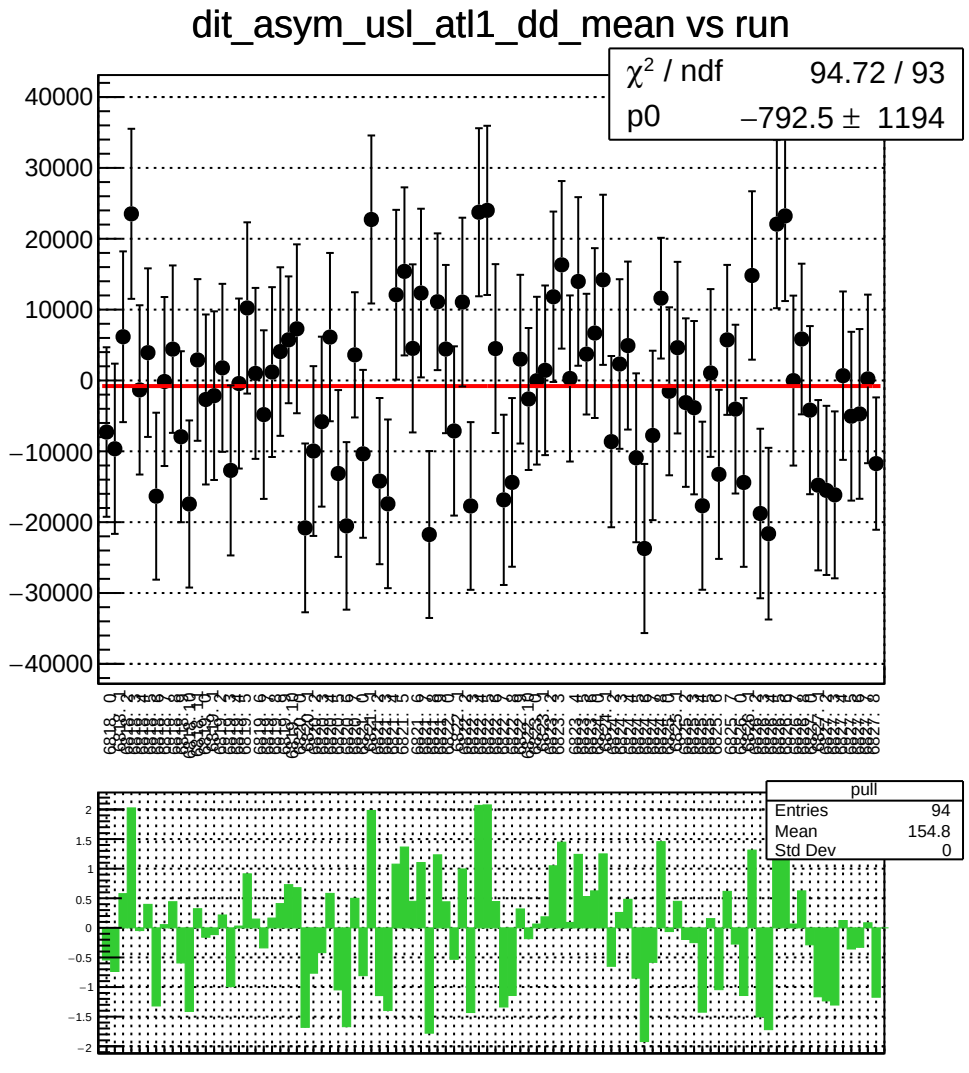

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.85 / 93
p0 −800.5 ± 1194
pull
Entries 94
Mean 155
Std Dev 0
pull1D
Entries 94
Mean −0.01342
Std Dev 1.004

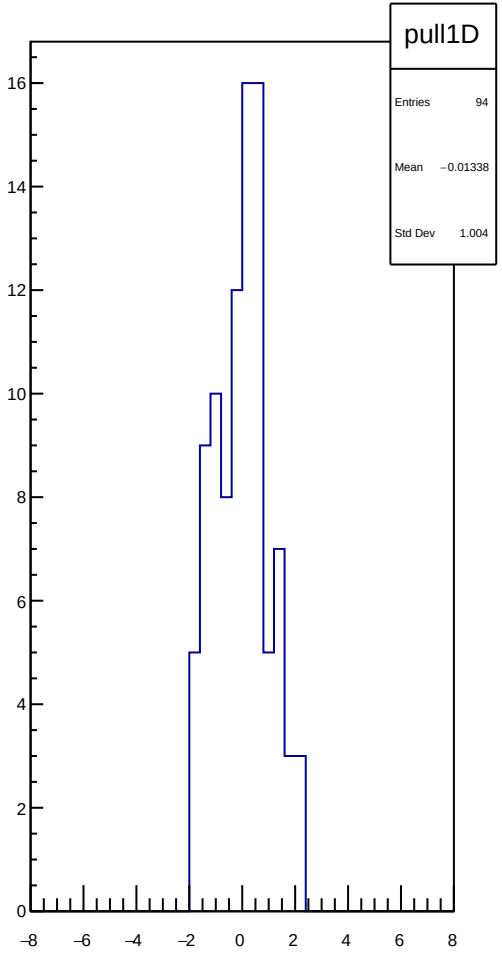

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 97.82 / 93
p0 1131 ± 0.8442
1170
1160
1150
1140
1130
1120
1110
1100

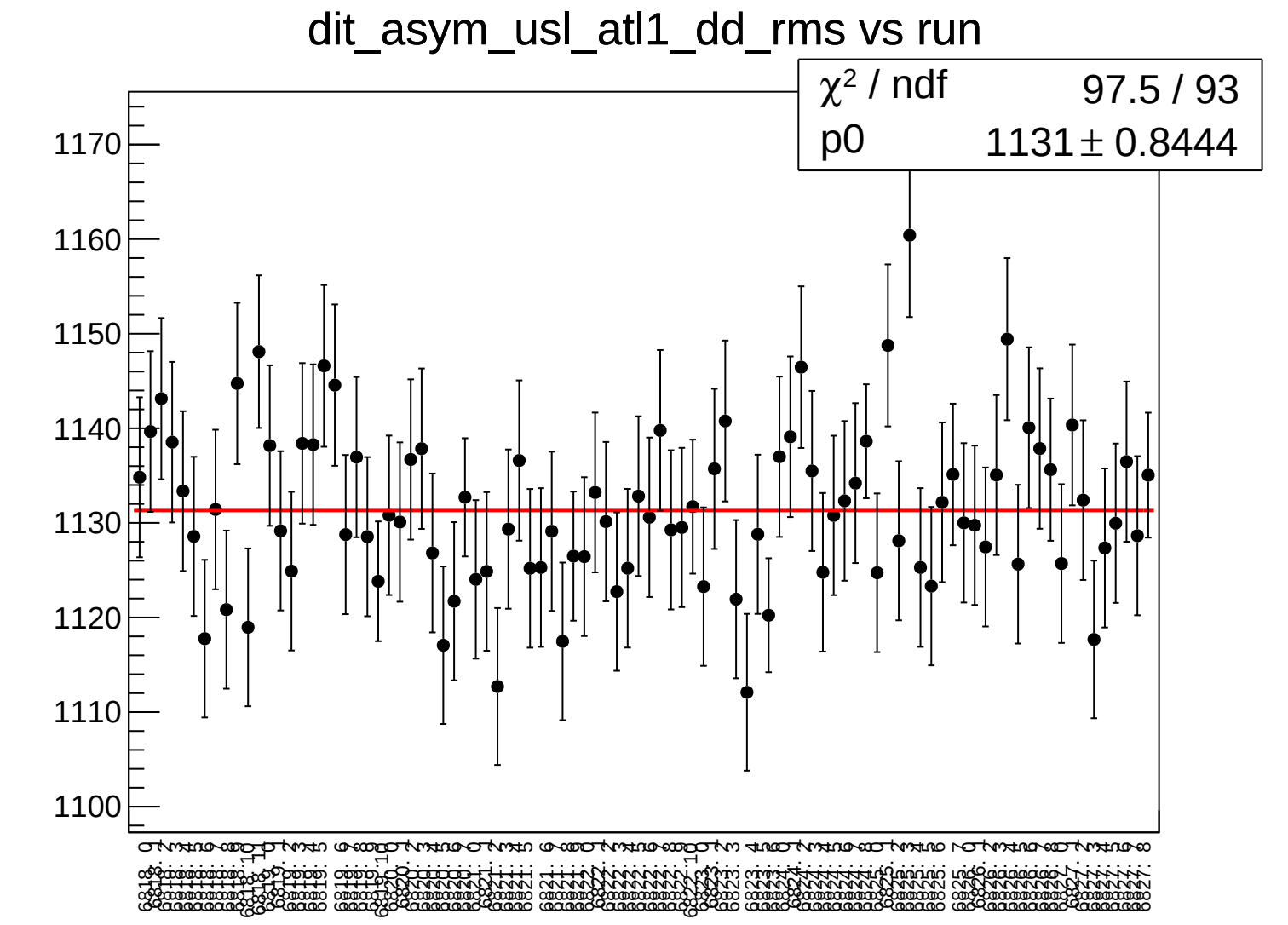

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.64 / 93
p0 −525.7 ± 550.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −496.1
Std Dev 0
2
1
0
−1
−2
−3

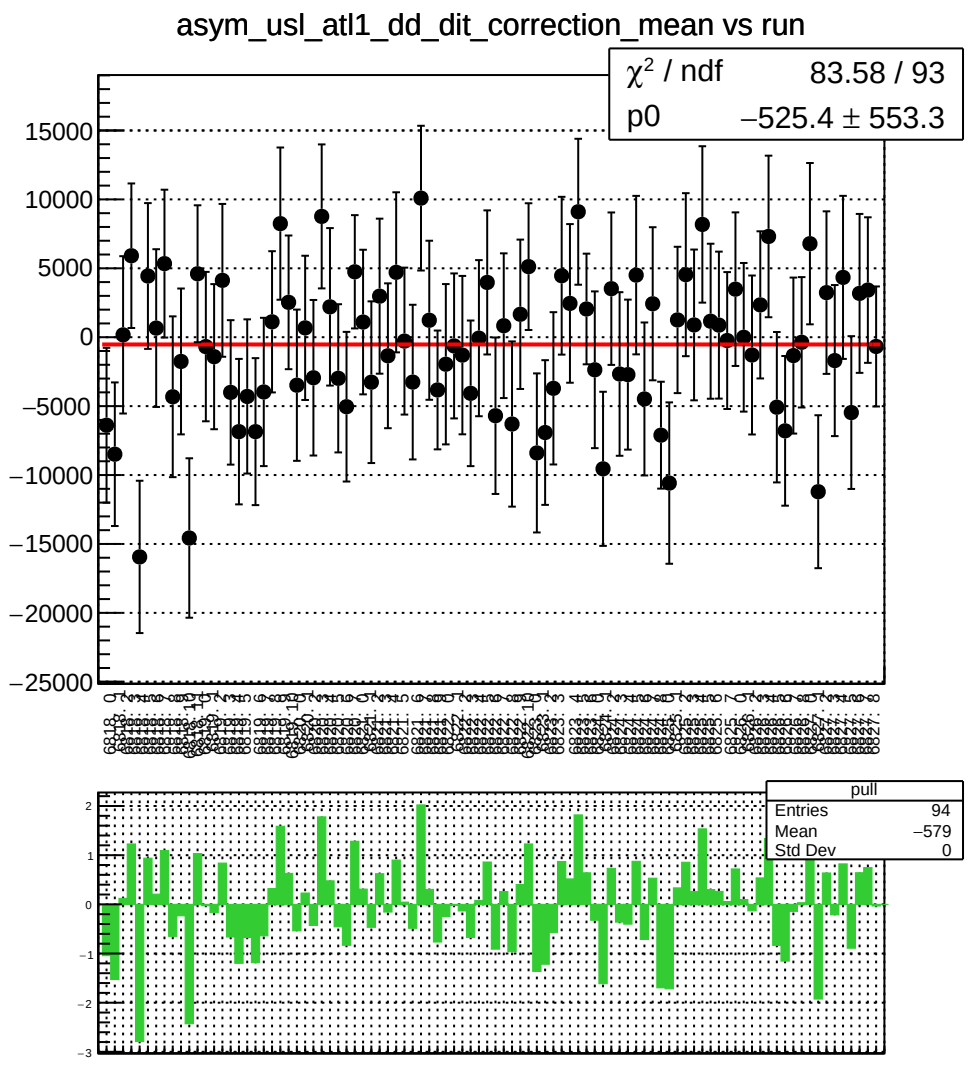

pull1D
Entries 94
Mean −0.004894
Std Dev 0.9433
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

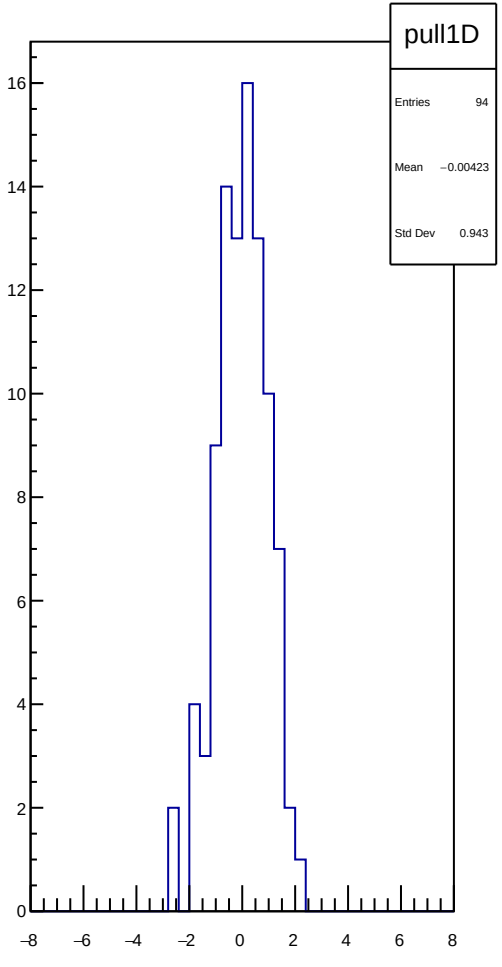

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3955 / 93
p0 520.6 ± 0.389
620
600
580
560
540
520
500
480
460

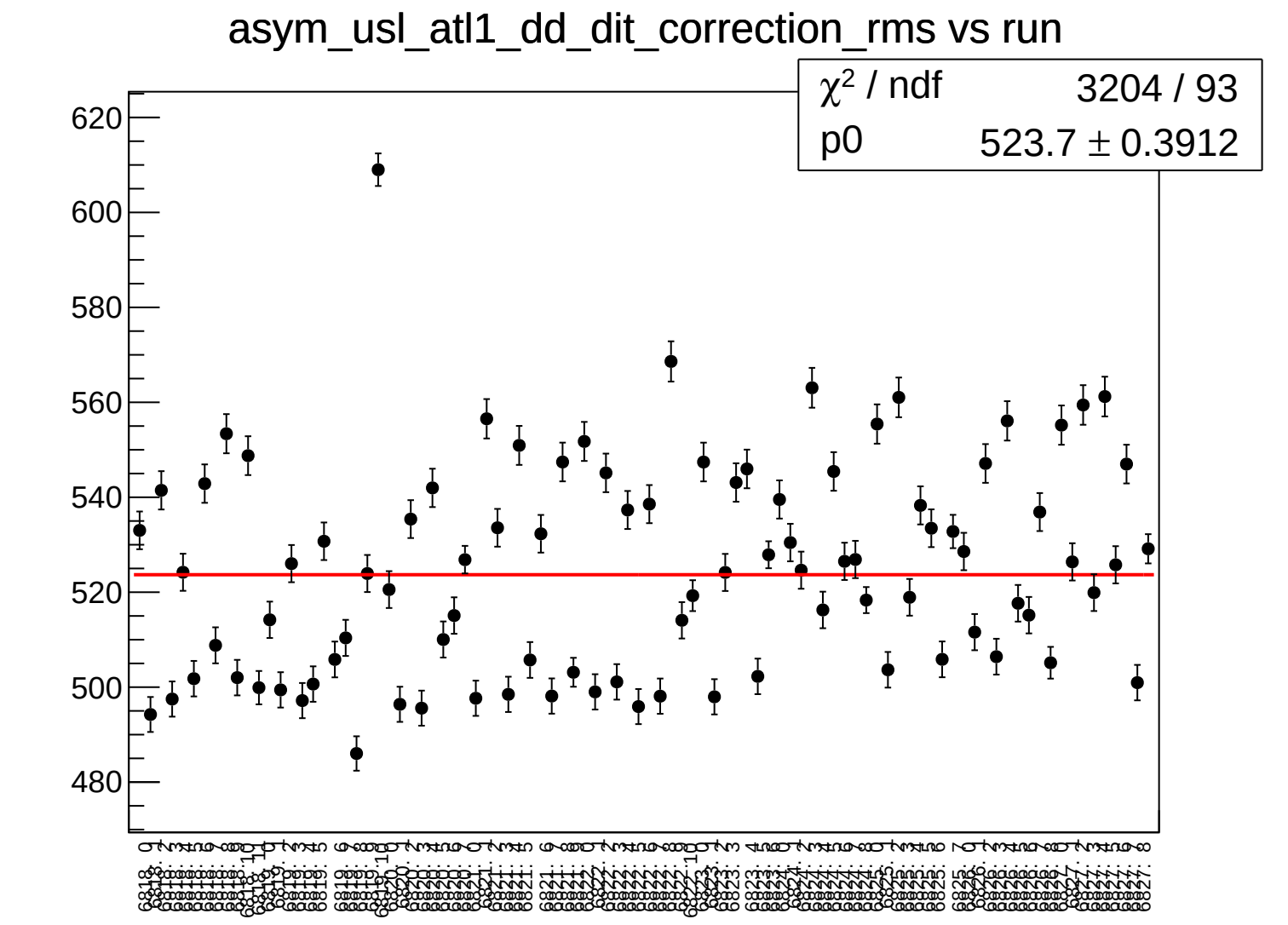

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.72 / 93
p0 −792.5 ± 1194
pull
Entries 94
Mean 154.8
Std Dev 0

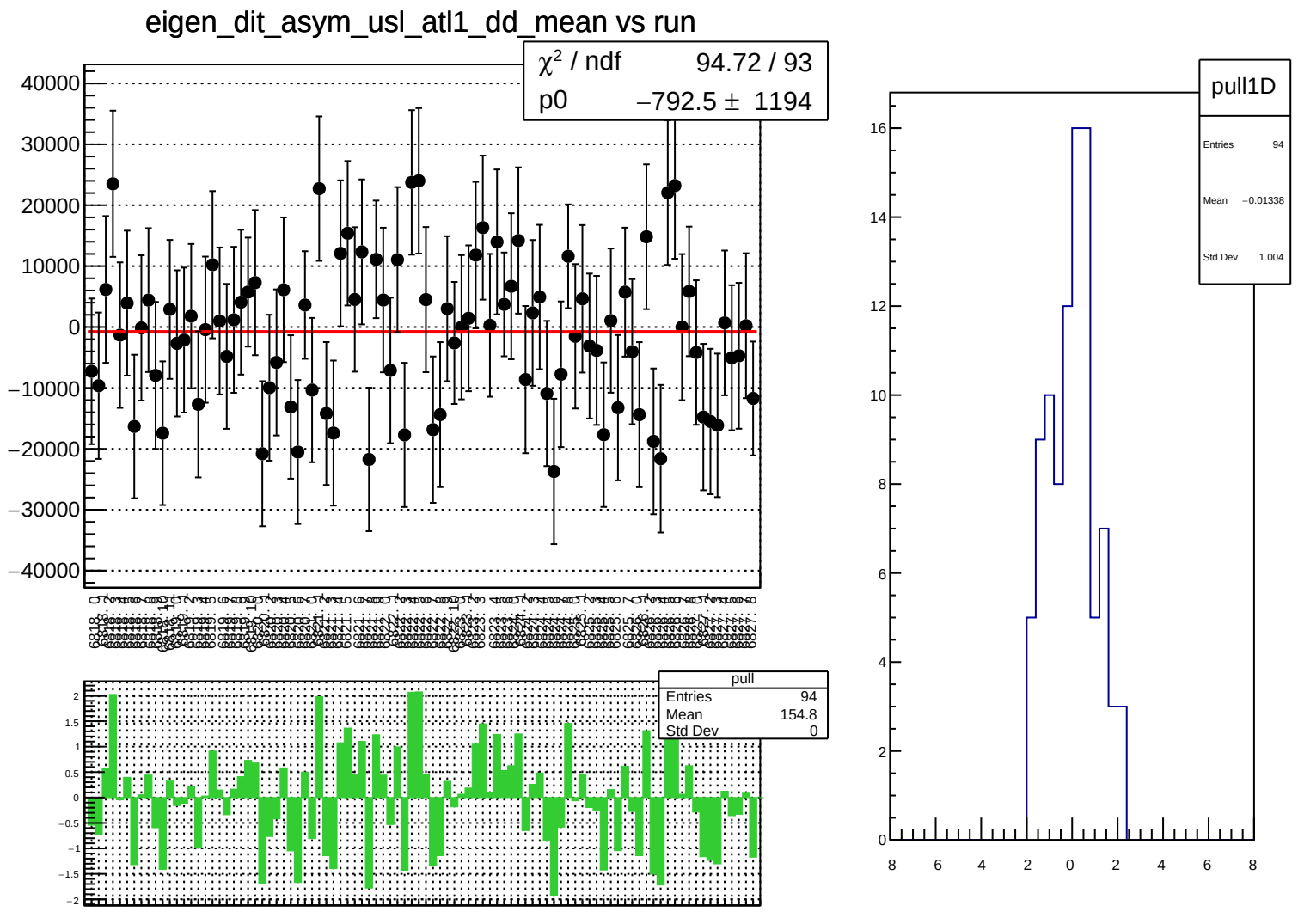

pull1D
Entries 94
Mean −0.01338
Std Dev 1.004

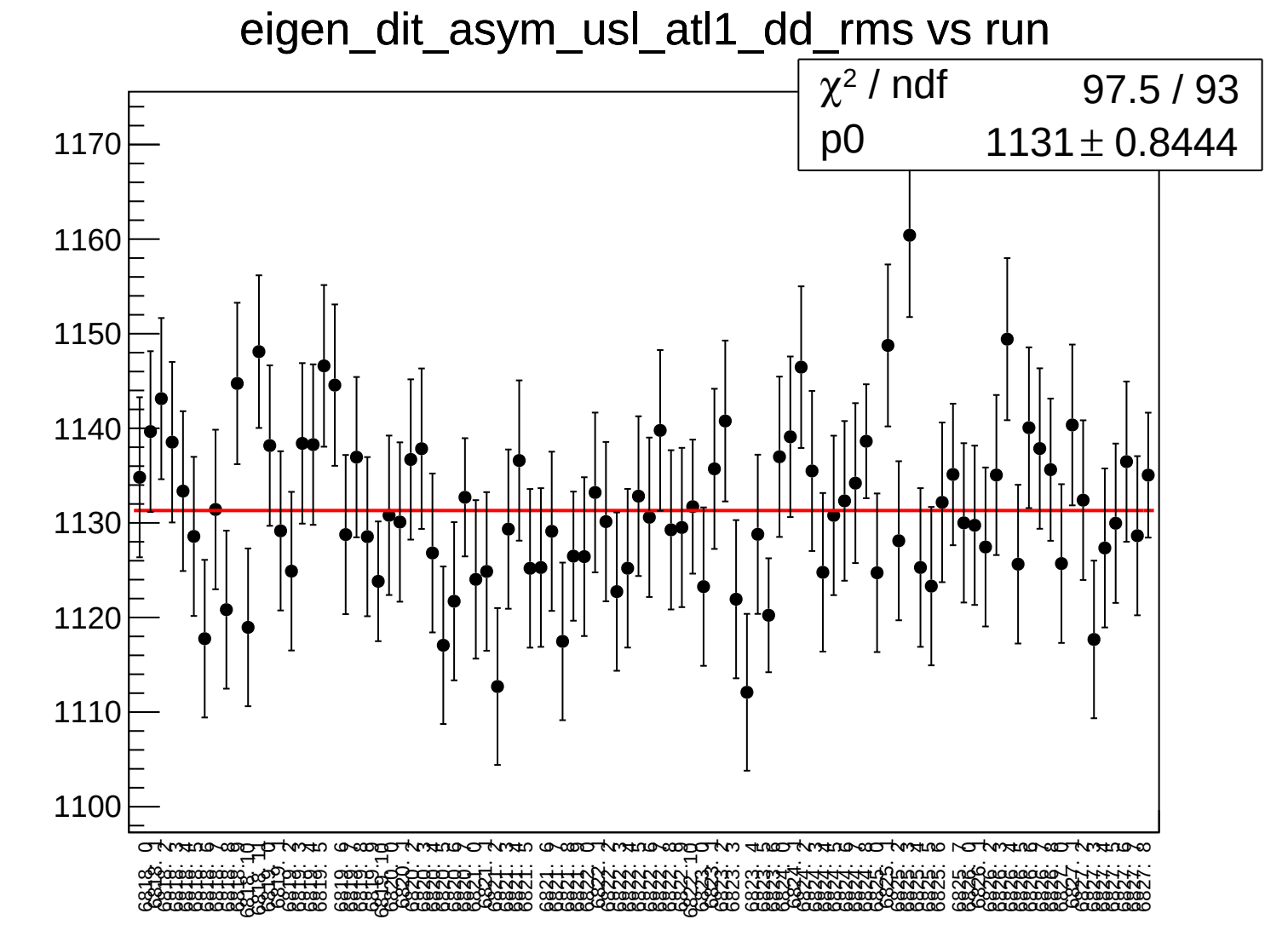

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 97.5 / 93
p0 1131 ± 0.8444
1170
1160
1150
1140
1130
1120
1110
1100

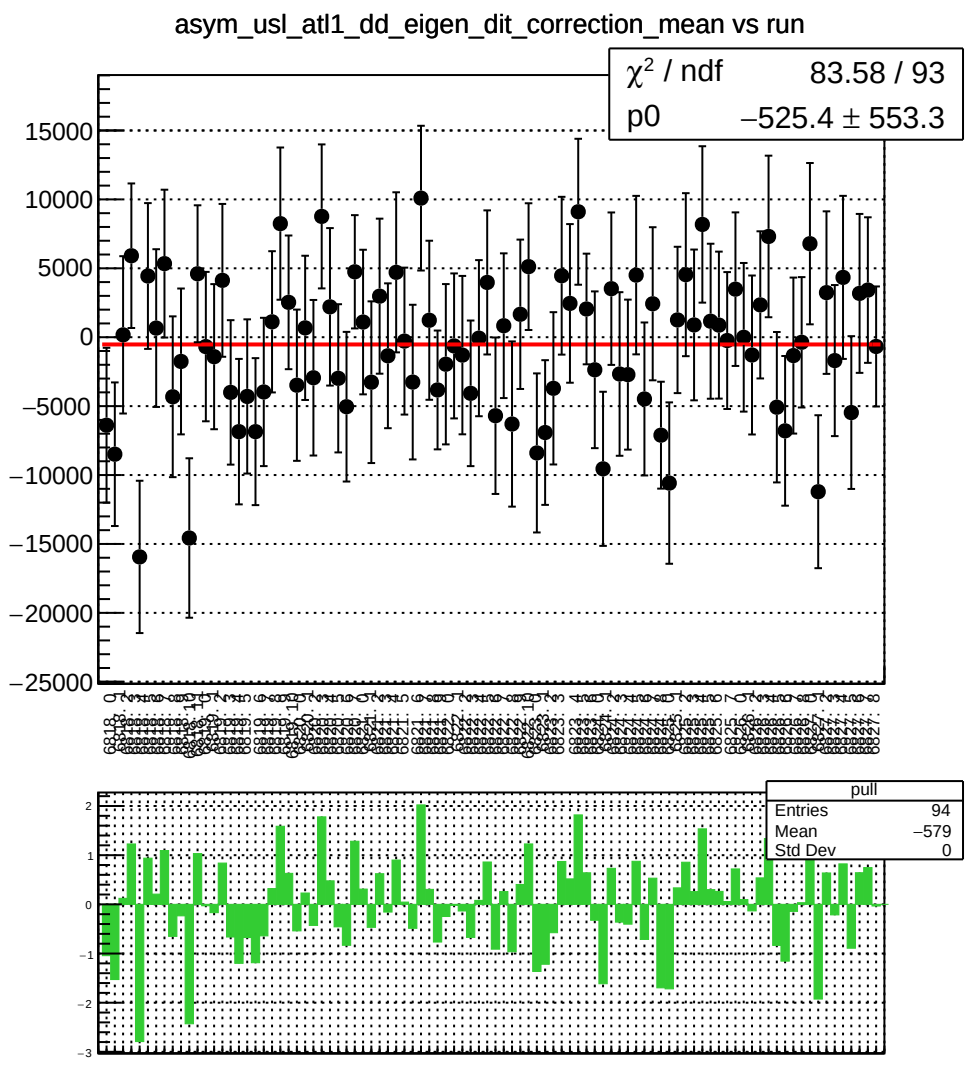

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 83.58 / 93
p0 −525.4 ± 553.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −579
Std Dev 0
2
1
0
−1
−2
−3

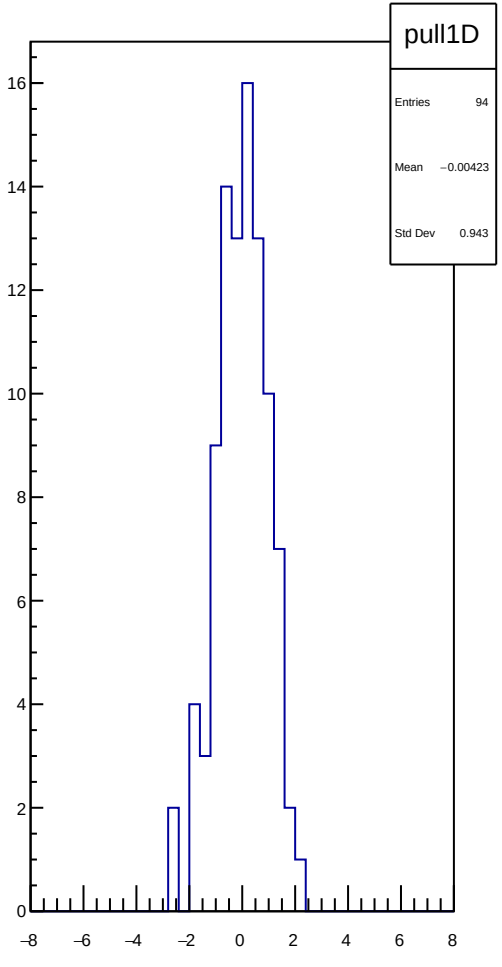

pull1D
Entries 94
Mean −0.00423
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

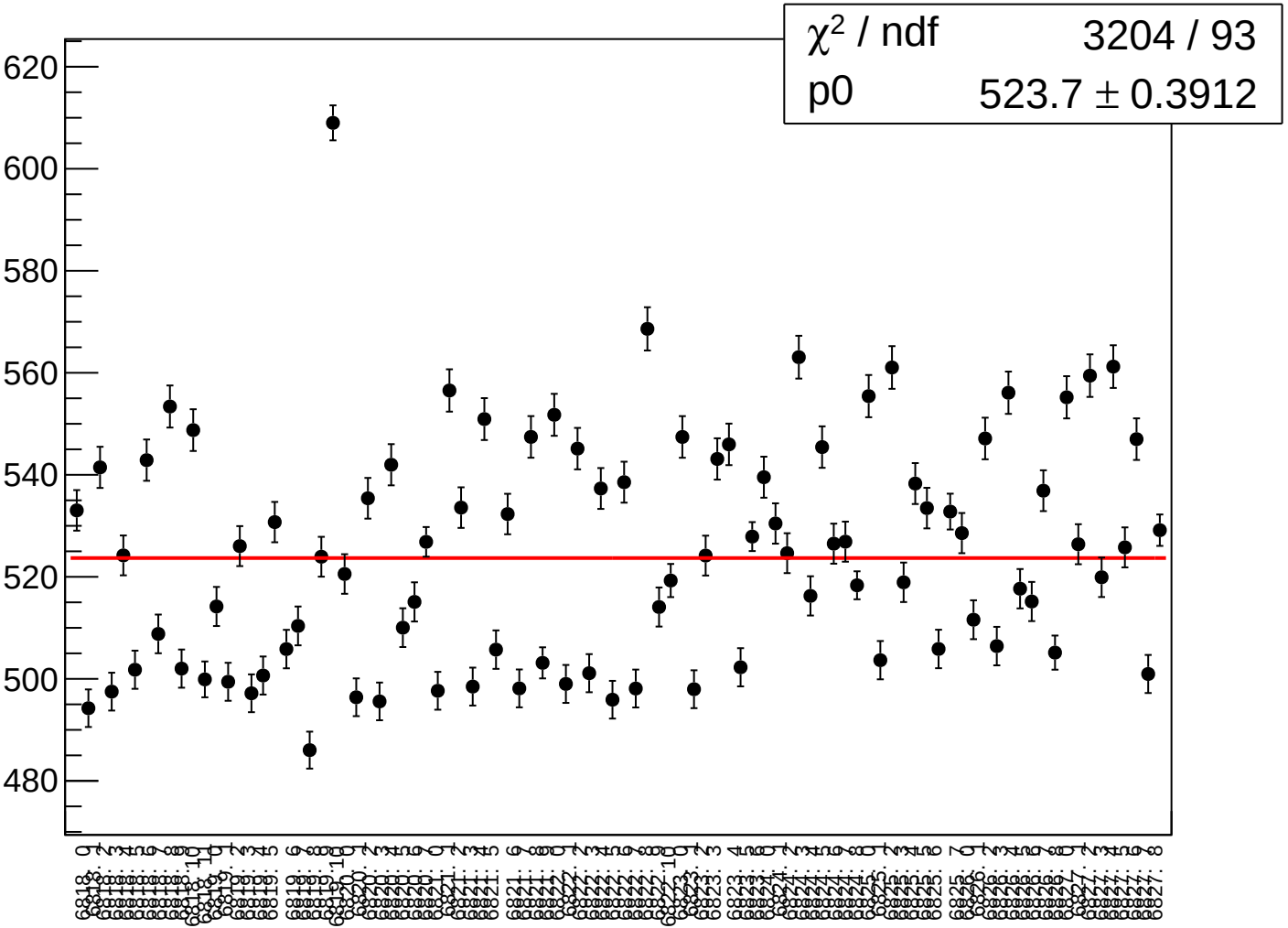

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 3204 / 93
p0 523.7 ± 0.3912
620
600
580
560
540
520
500
480

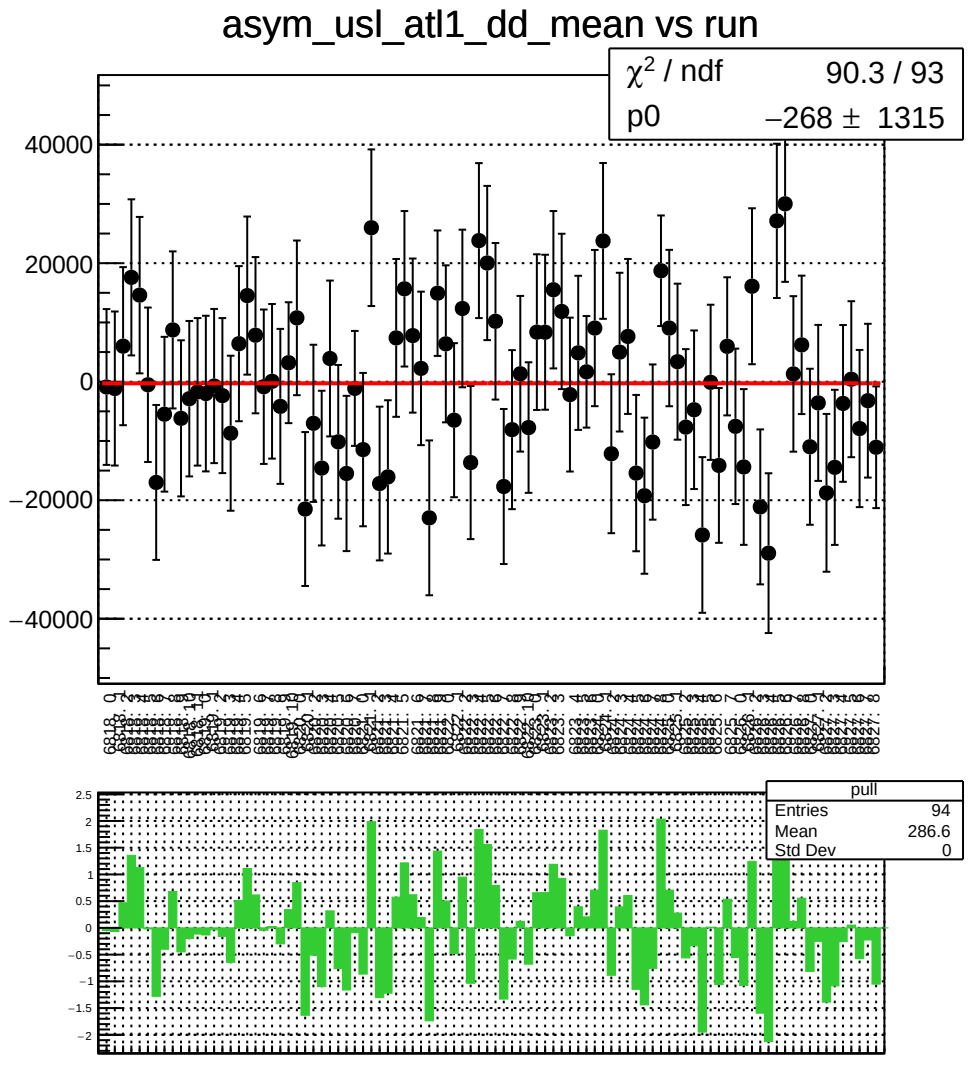

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 94.72 / 93
p0 −792.5 ± 1194
pull
Entries 94
Mean 154.8
Std Dev 0
pull1D
Entries 94
Mean −0.01338
Std Dev 1.004

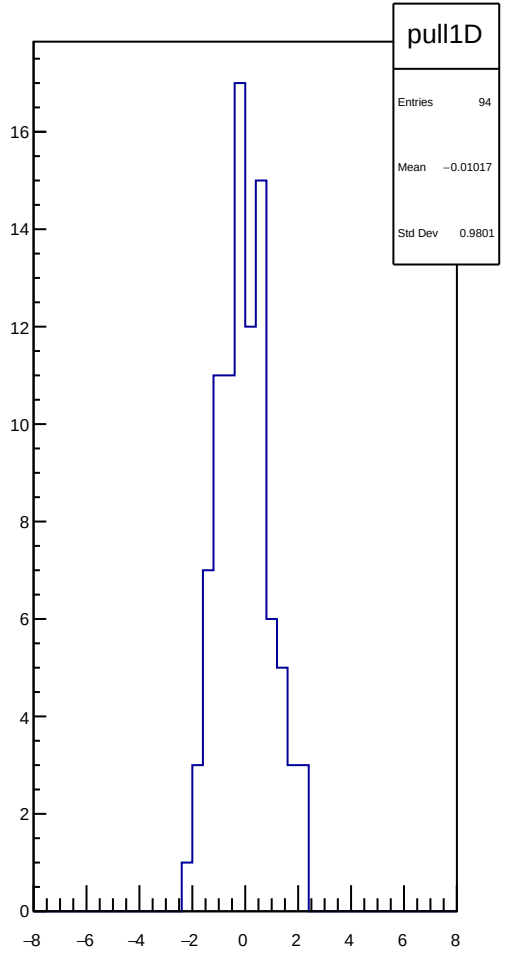

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 97.5 / 93
p0 1131 ± 0.8444
1170
1160
1150
1140
1130
1120
1110
1100

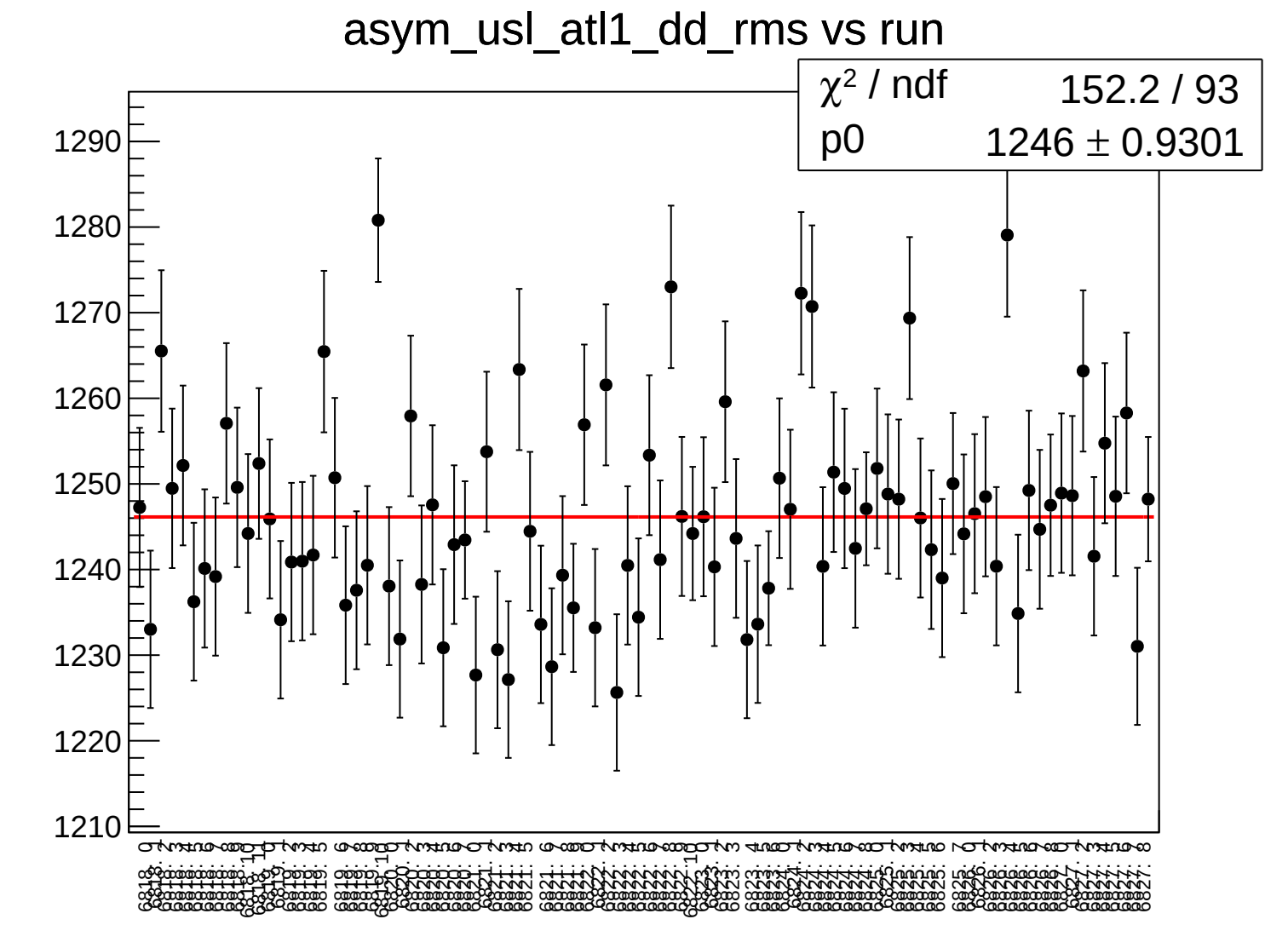

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.58 / 93
p0 −525.4 ± 553.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −579
Std Dev 0
2
1
0
−1
−2
−3

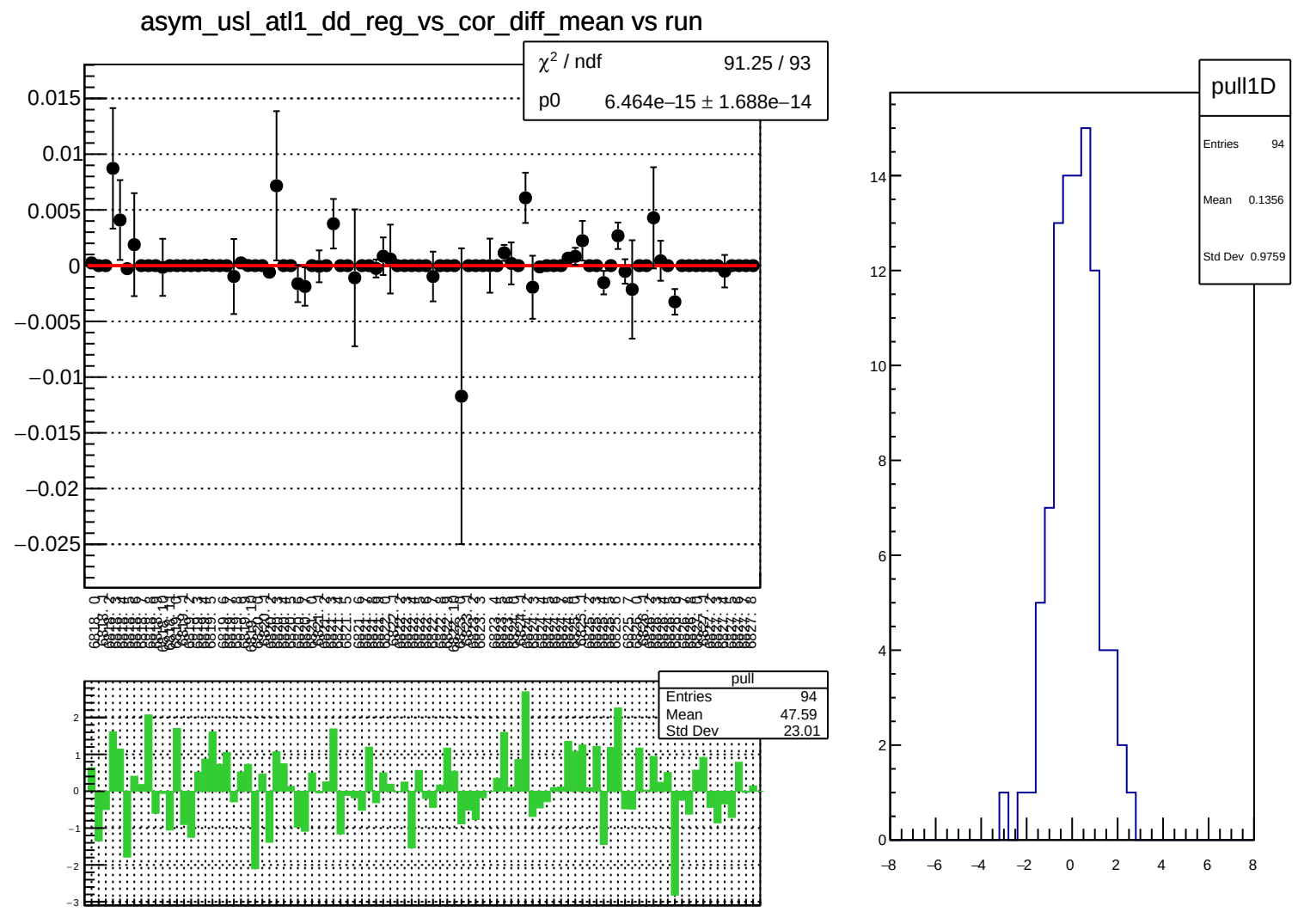

pull1D
Entries 94
Mean −0.00423
Std Dev 0.943
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

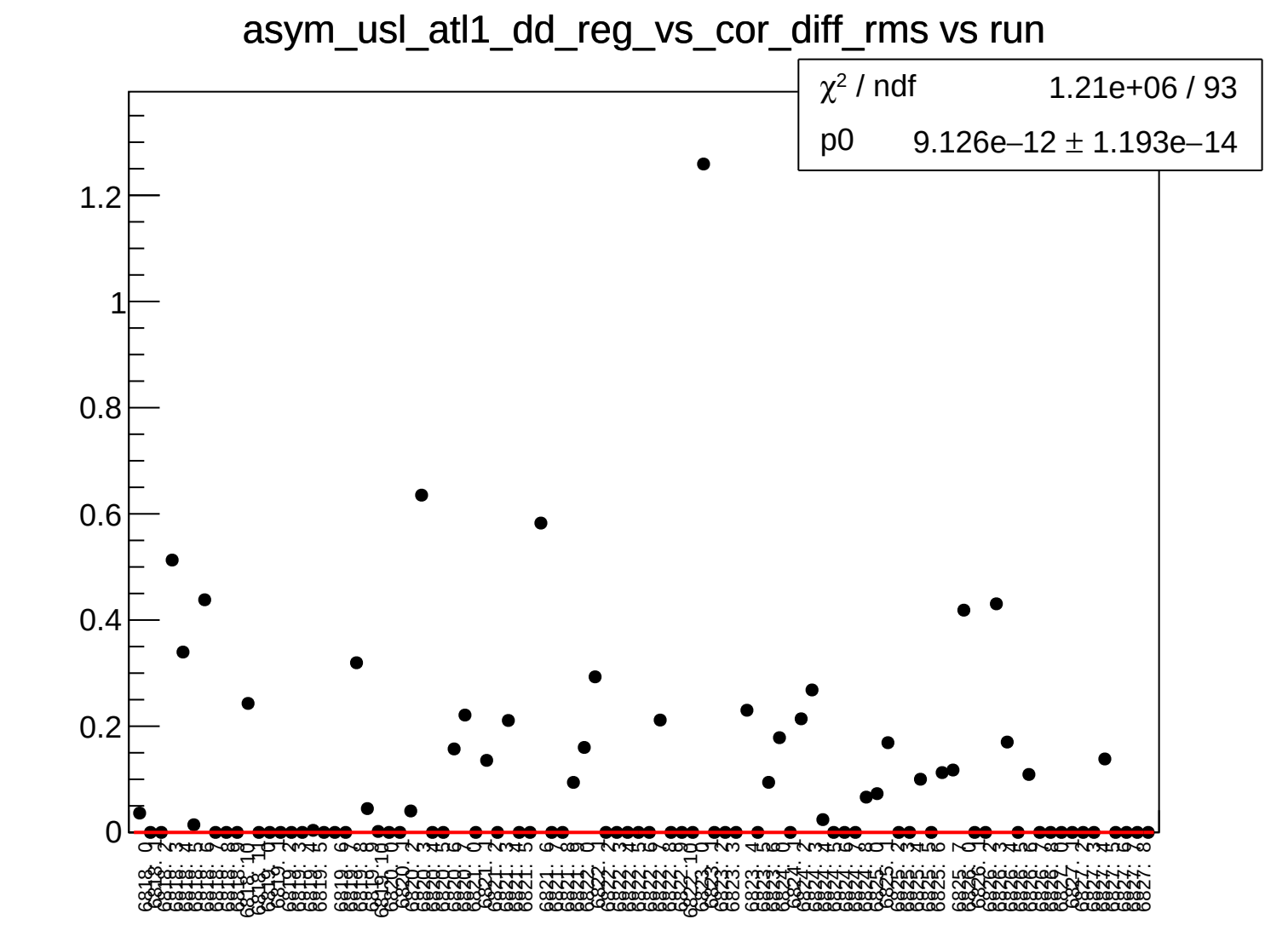

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3204 / 93
p0 523.7 ± 0.3912
620
600
580
560
540
520
500
480

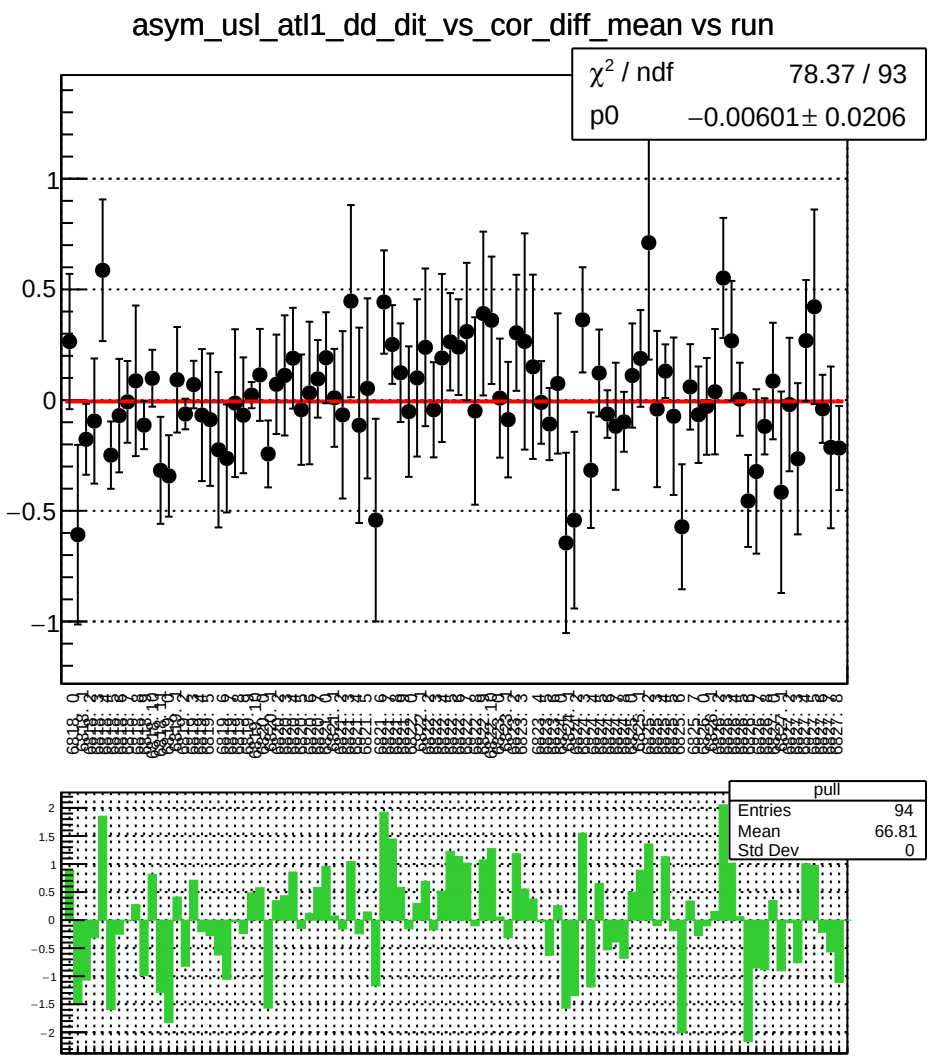

asym_usl_atl1_dd_mean vs run
χ² / ndf 90.3 / 93
p0 −268 ± 1315
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 286.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

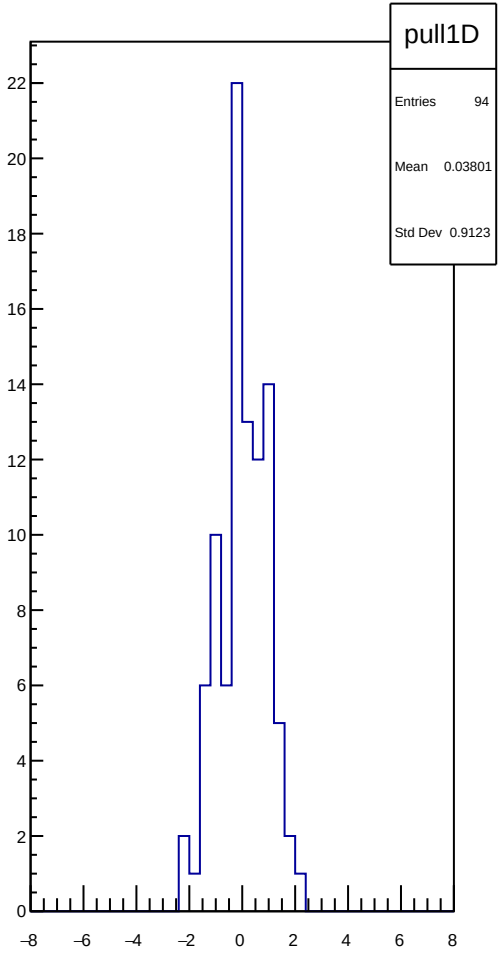

pull1D
Entries 94
Mean −0.01017
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

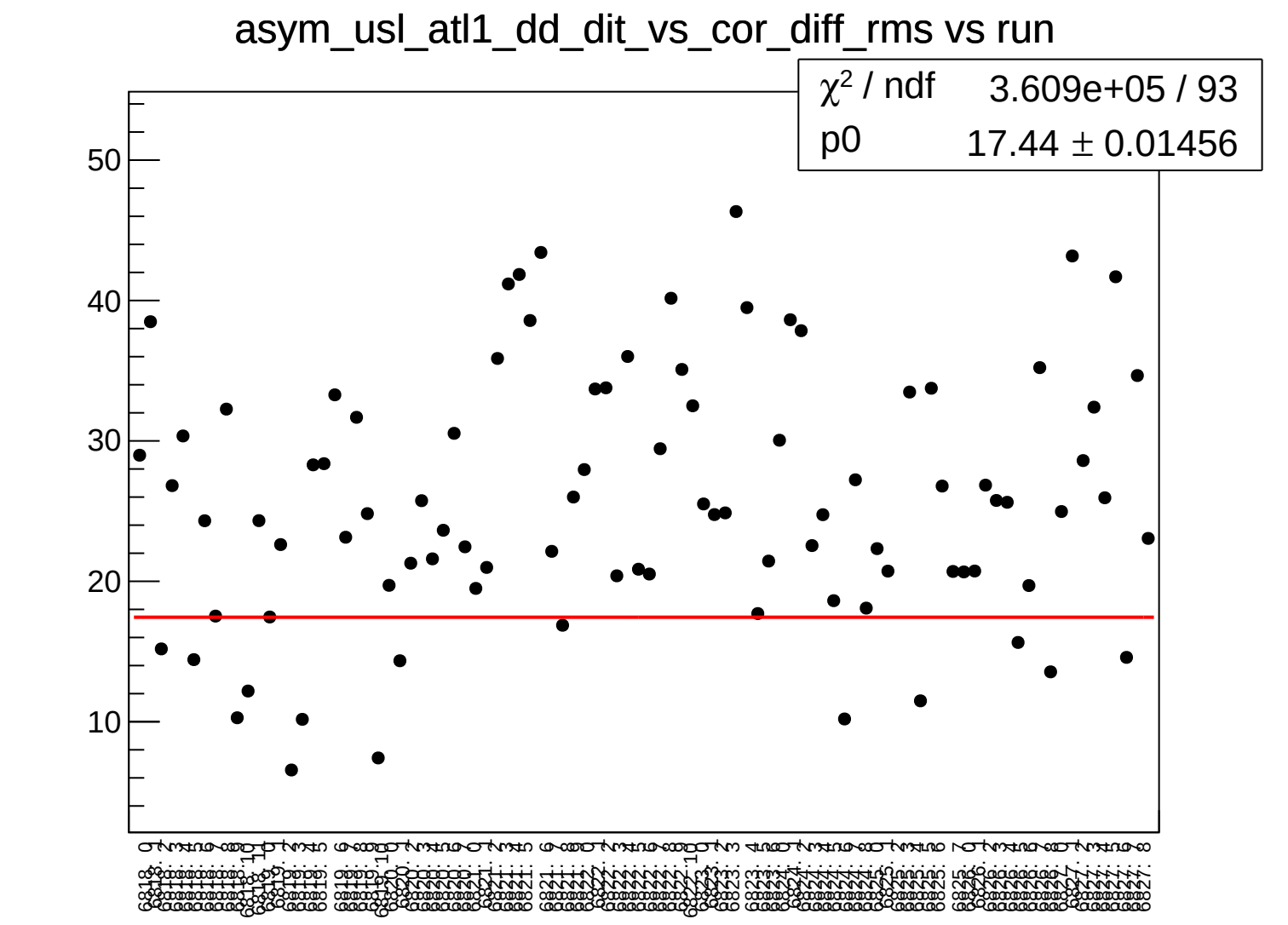

asym_usl_atl1_dd_rms vs run
χ² / ndf 152.2 / 93
p0 1246 ± 0.9301
1290
1280
1270
1260
1250
1240
1230
1220
1210

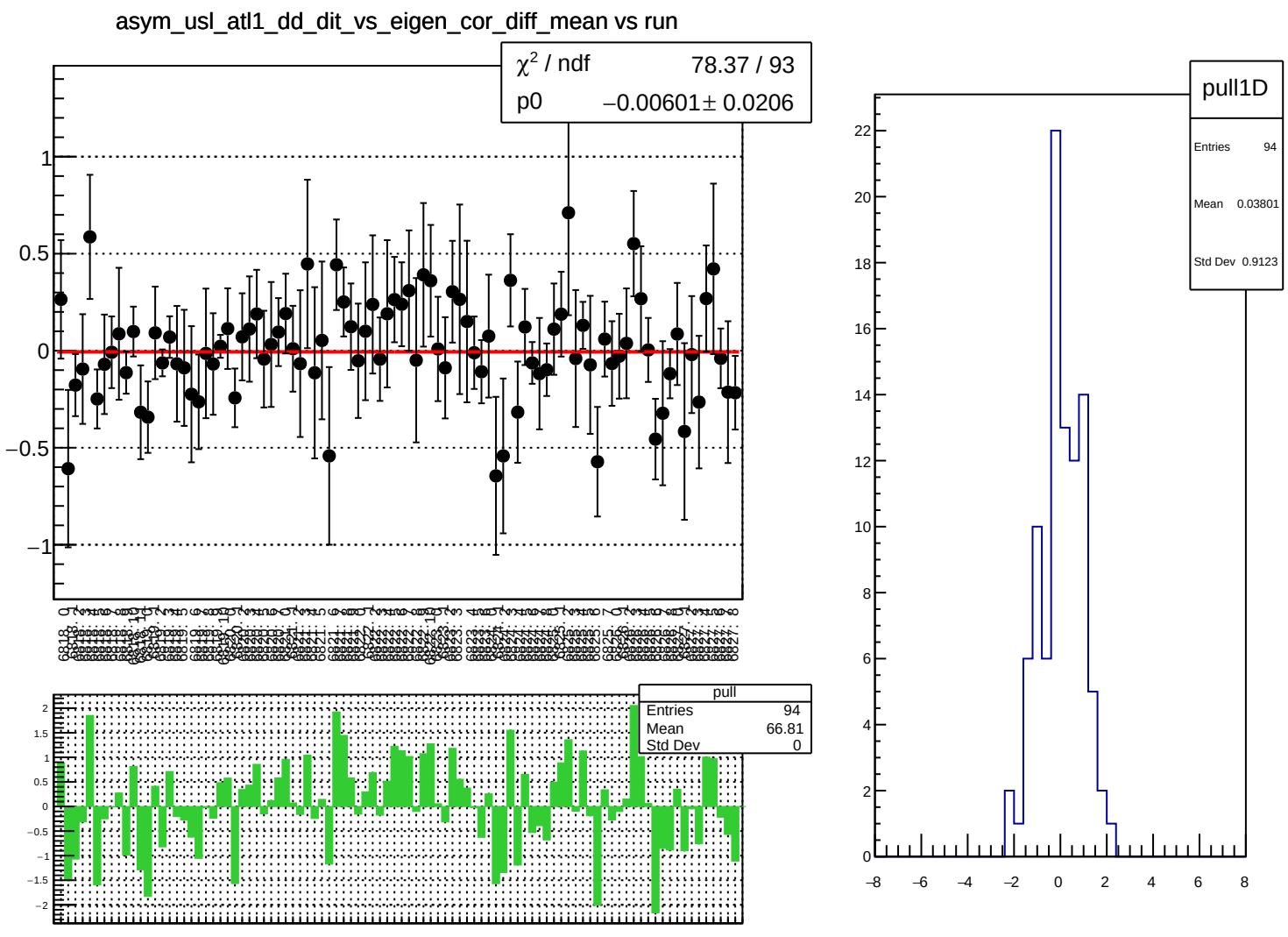

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.25 / 93
p0 6.464e−15 ± 1.688e−14
pull
Entries 94
Mean 47.59
Std Dev 23.01
pull1D
Entries 94
Mean 0.1356
Std Dev 0.9759

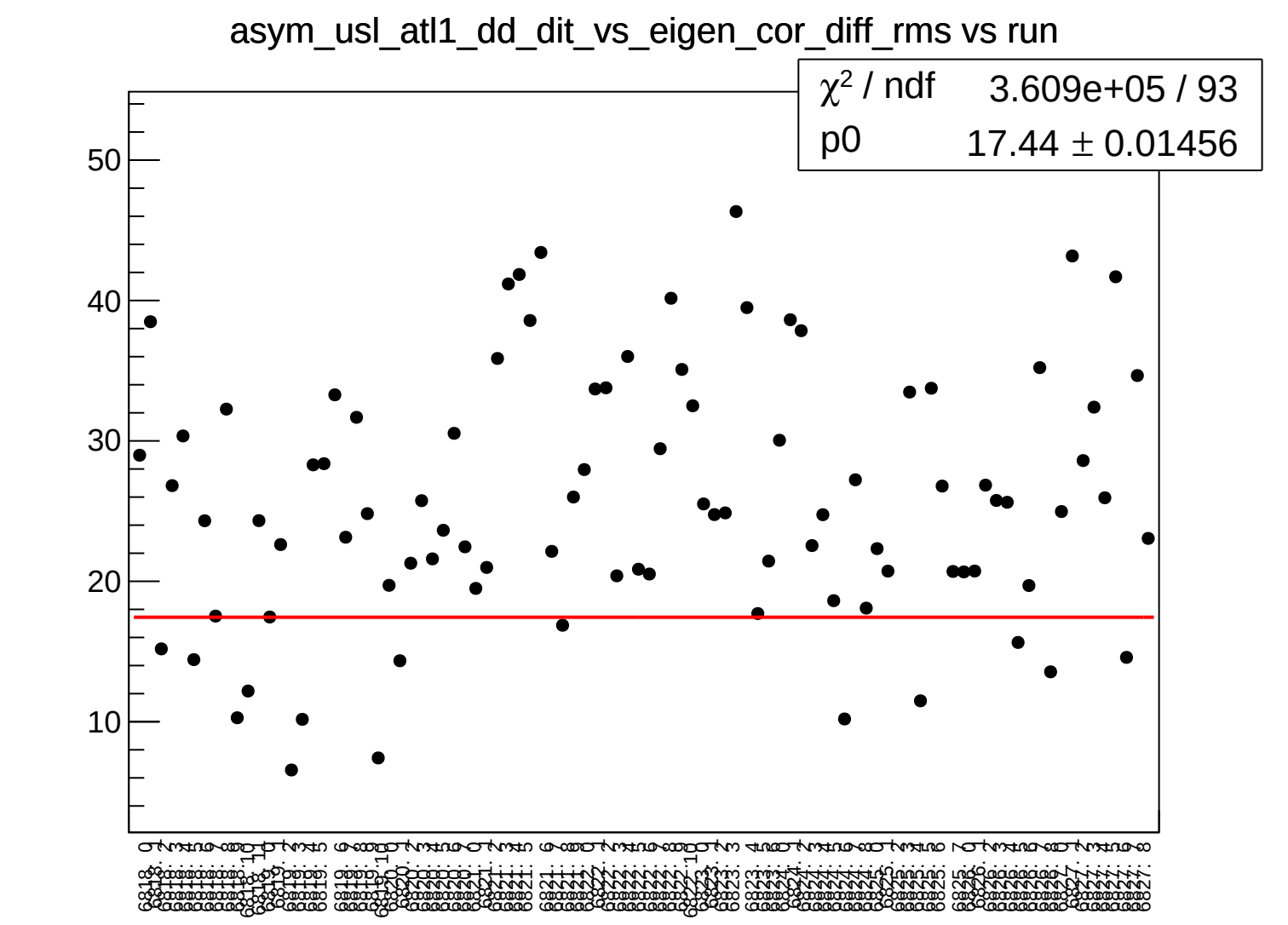

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.21e+06 / 93
p0 9.126e−12 ± 1.193e−14
1.2
1
0.8
0.6
0.4
0.2
0

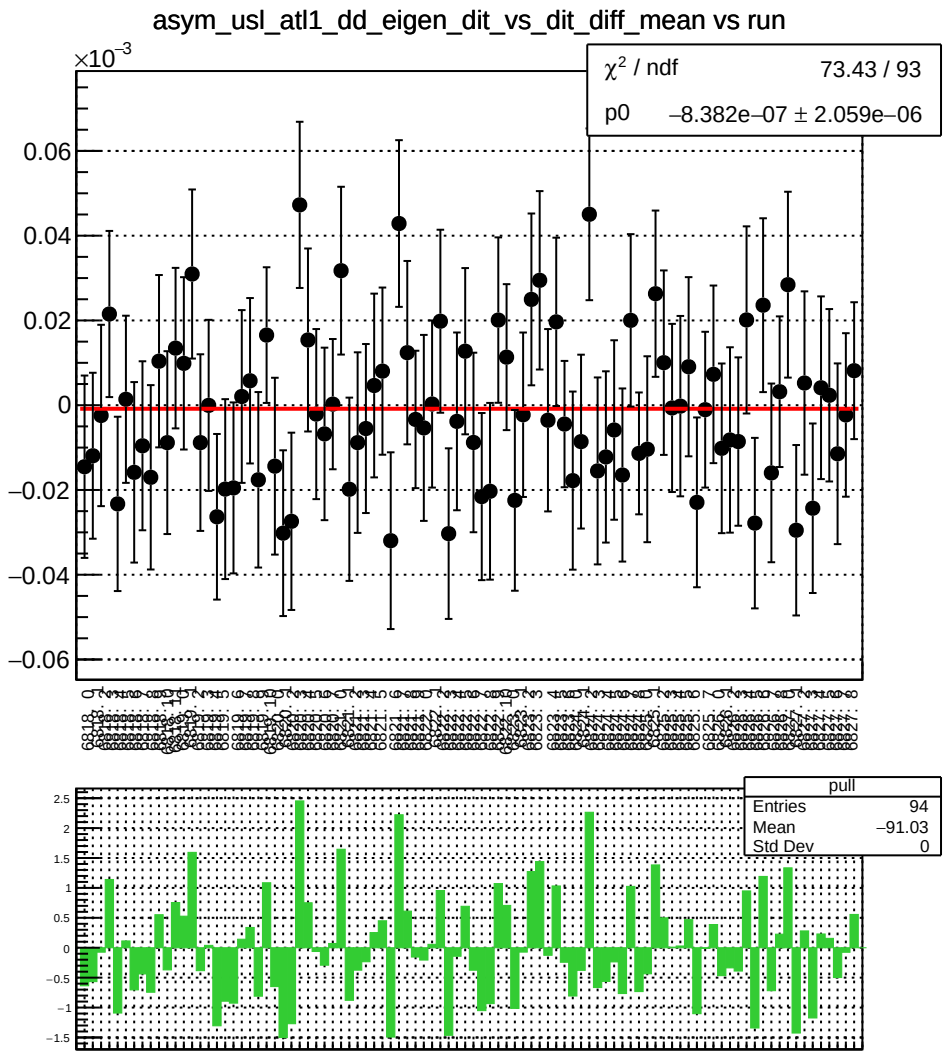

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.37 / 93
p0 −0.00601 ± 0.0206
pull
Entries 94
Mean 66.81
Std Dev 0

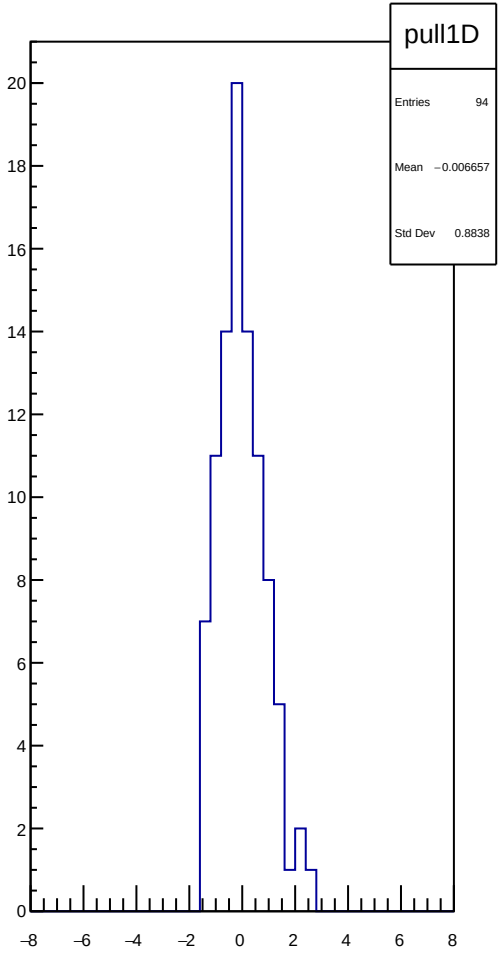

pull1D
Entries 94
Mean 0.03801
Std Dev 0.9123

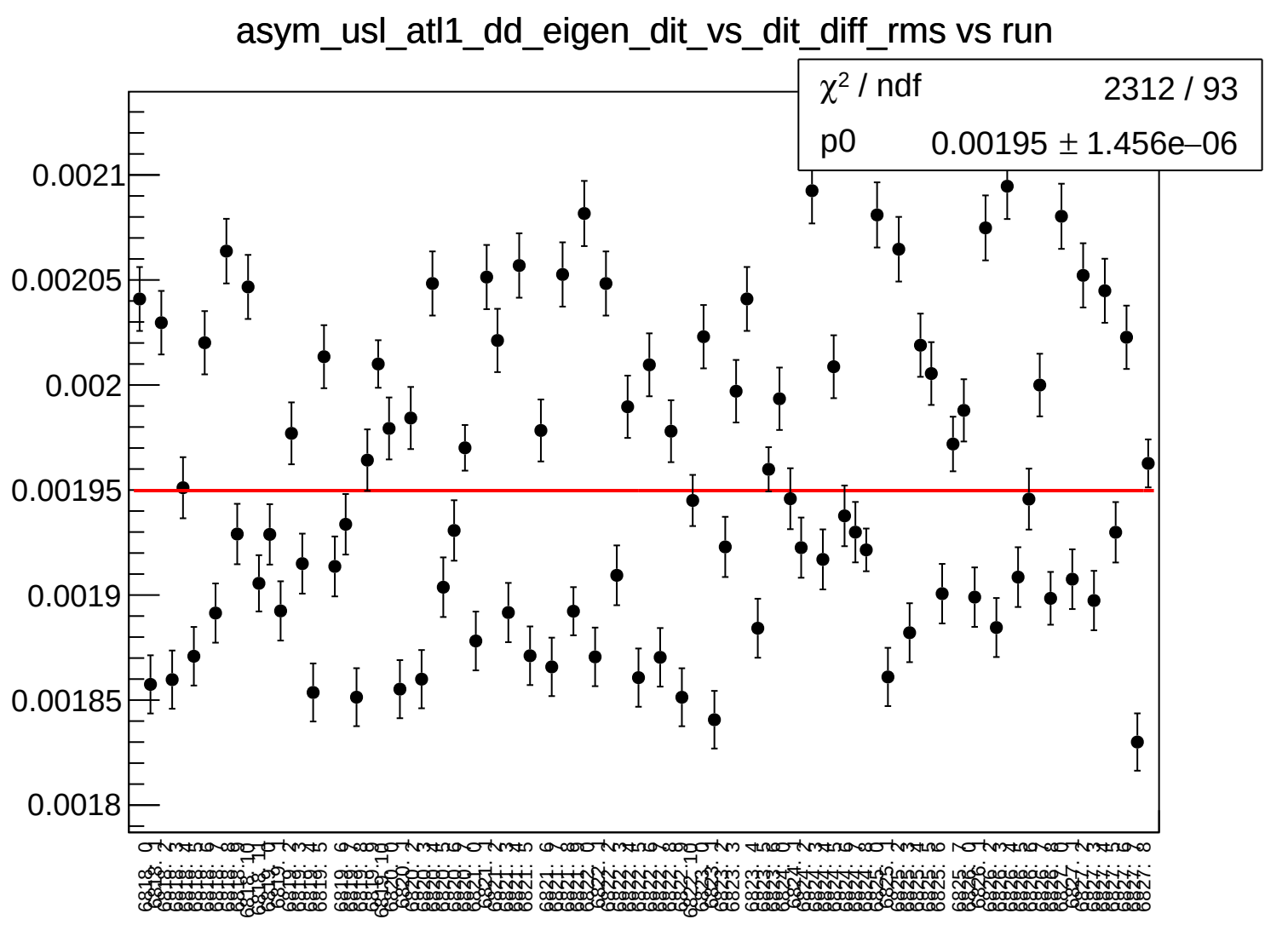

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.609e+05 / 93
p0 17.44 ± 0.01456
50
40
30
20
10

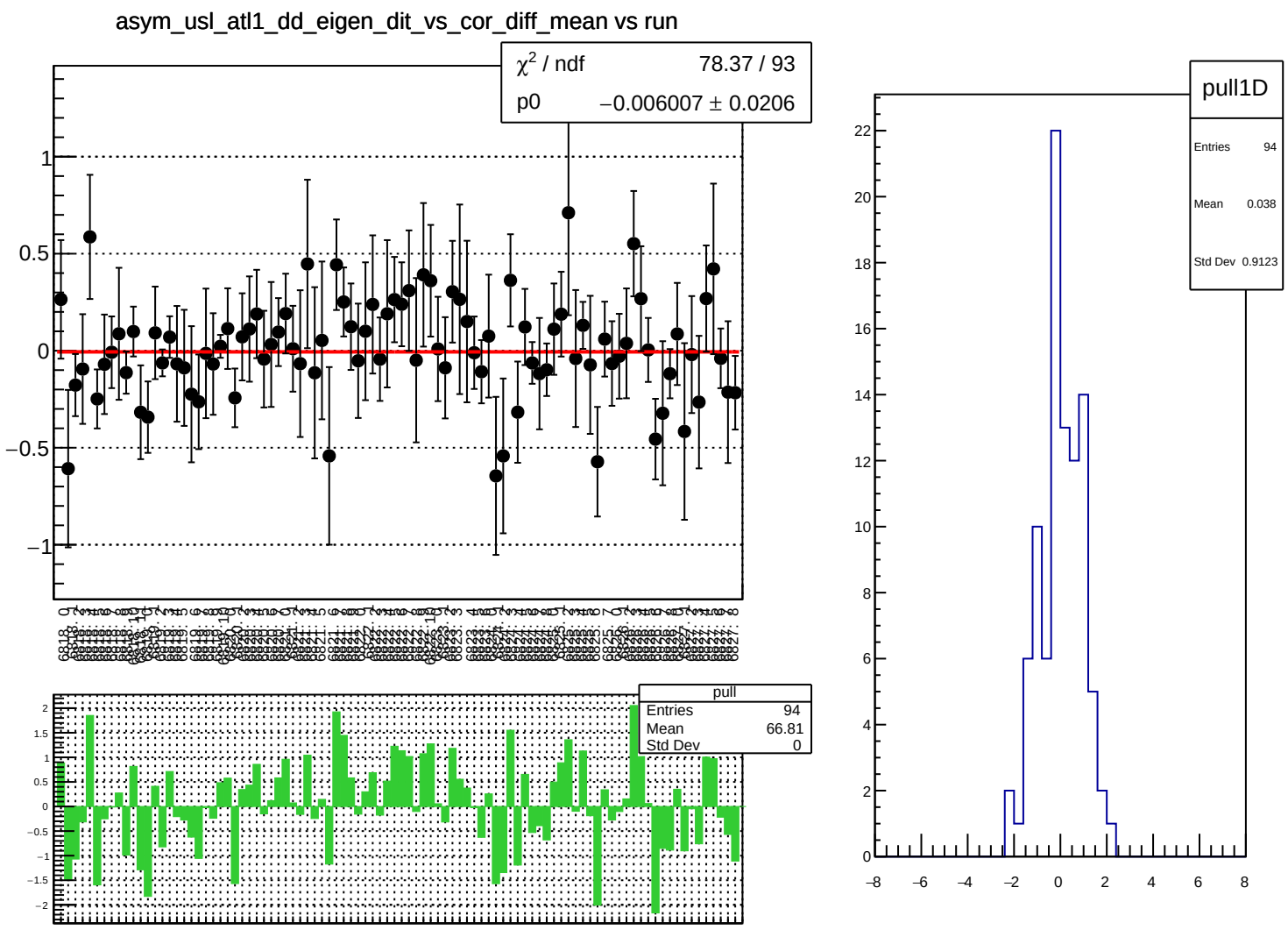

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.37 / 93
p0 −0.00601 ± 0.0206
pull
Entries 94
Mean 66.81
Std Dev 0
pull1D
Entries 94
Mean 0.03801
Std Dev 0.9123

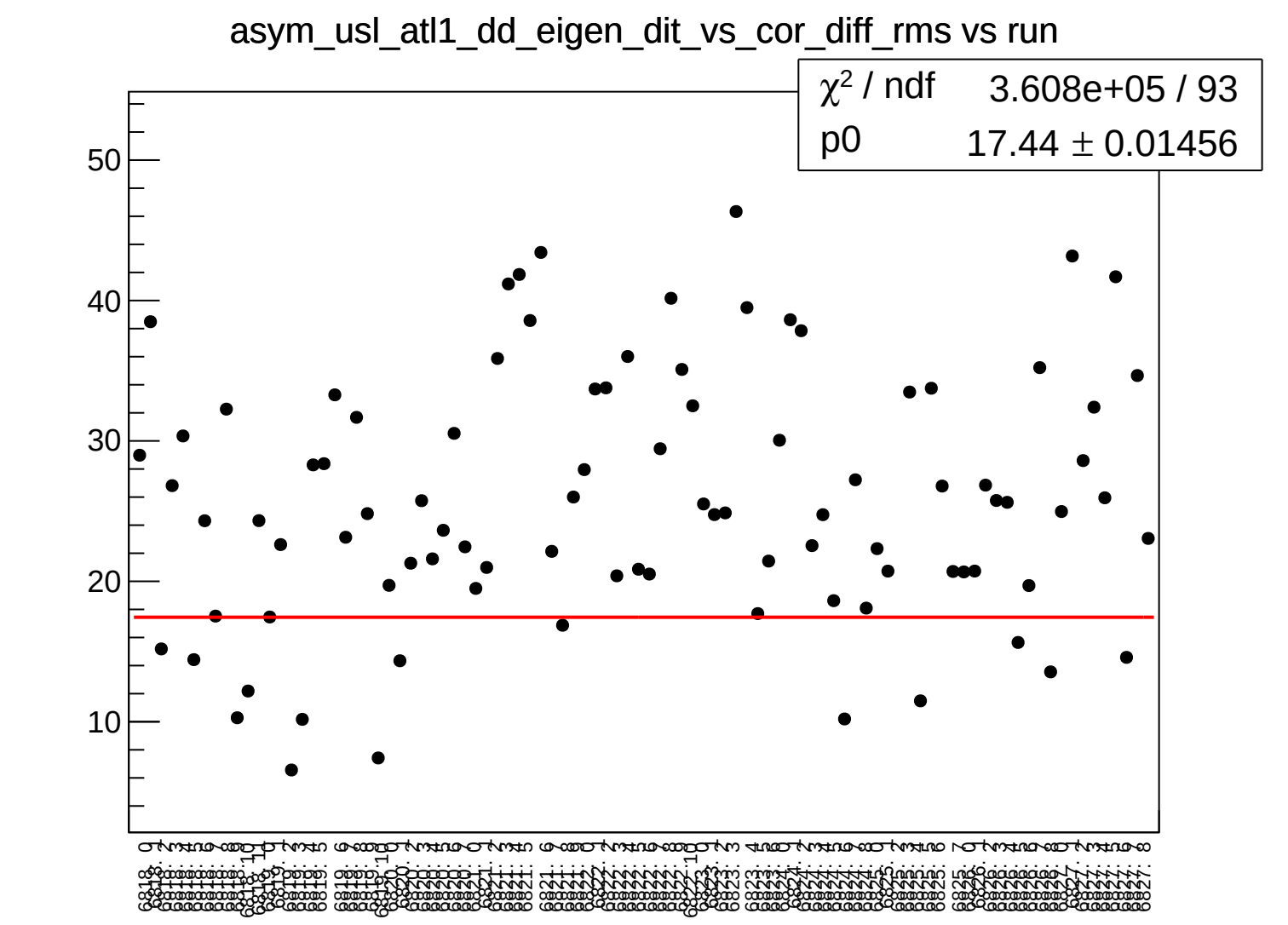

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.609e+05 / 93
p0 17.44 ± 0.01456
50
40
30
20
10

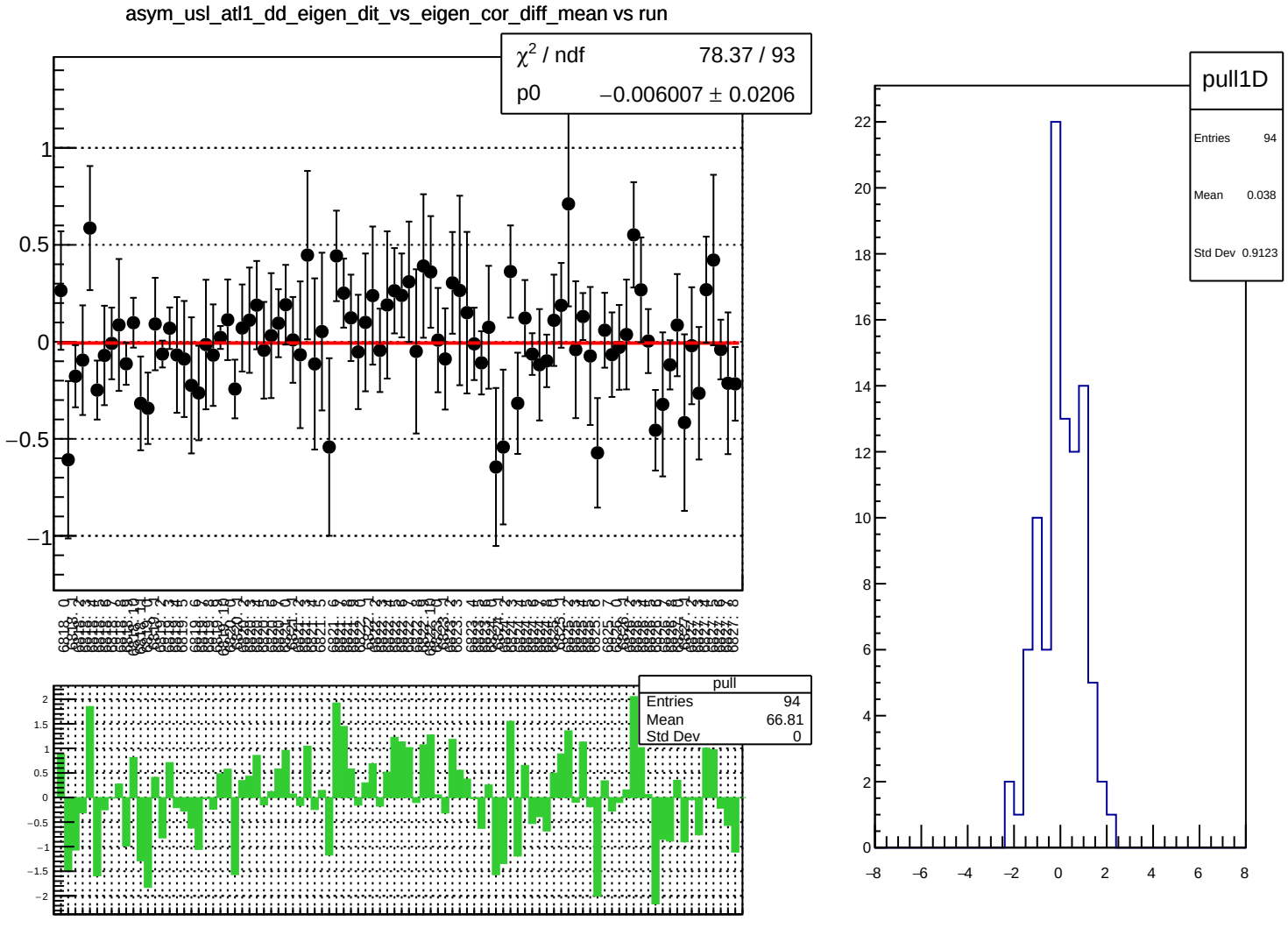

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.43 / 93
p0 −8.382e−07 ± 2.059e−06
pull
Entries 94
Mean −91.03
Std Dev 0

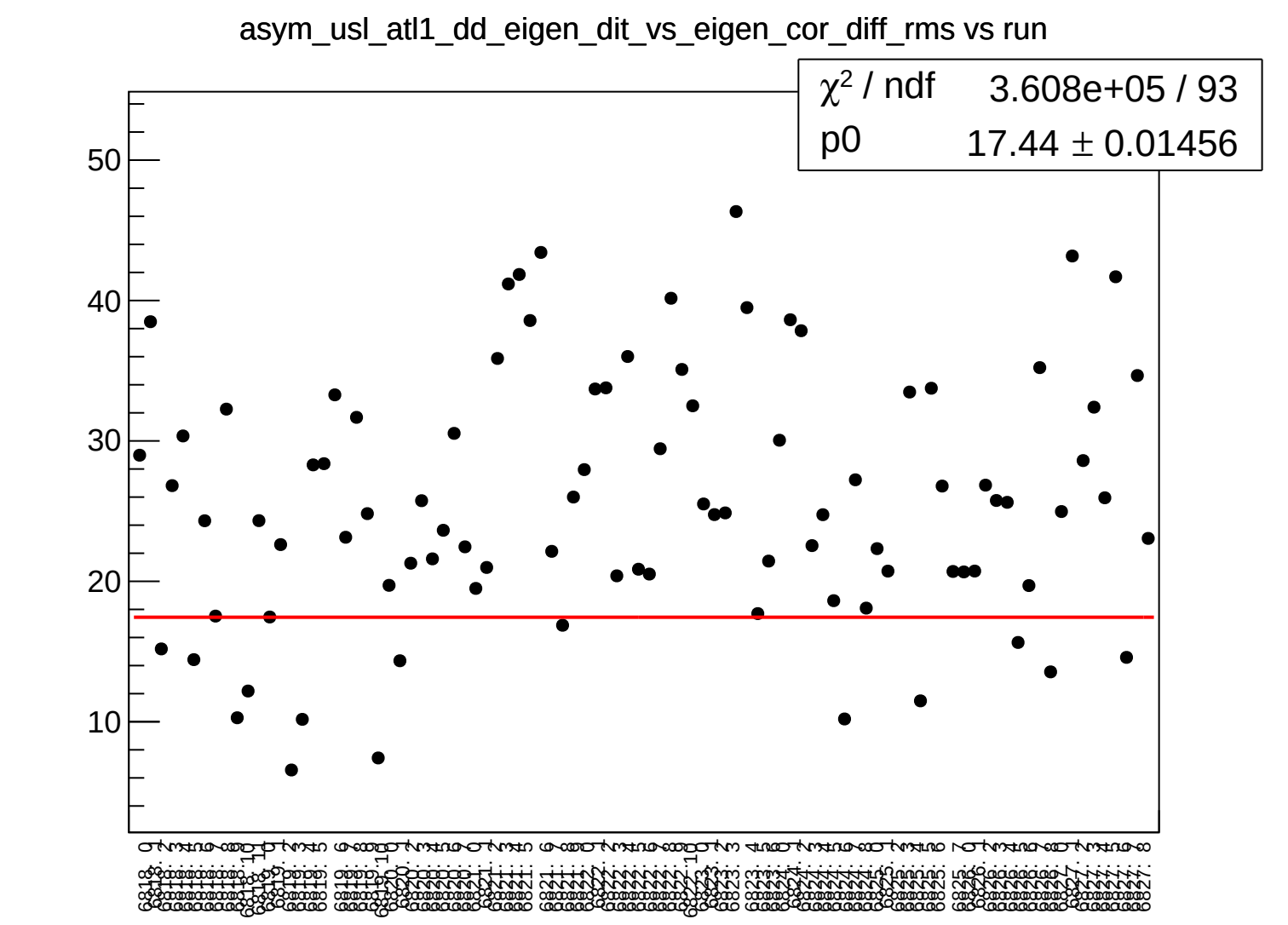

pull1D
Entries 94
Mean −0.006657
Std Dev 0.8838

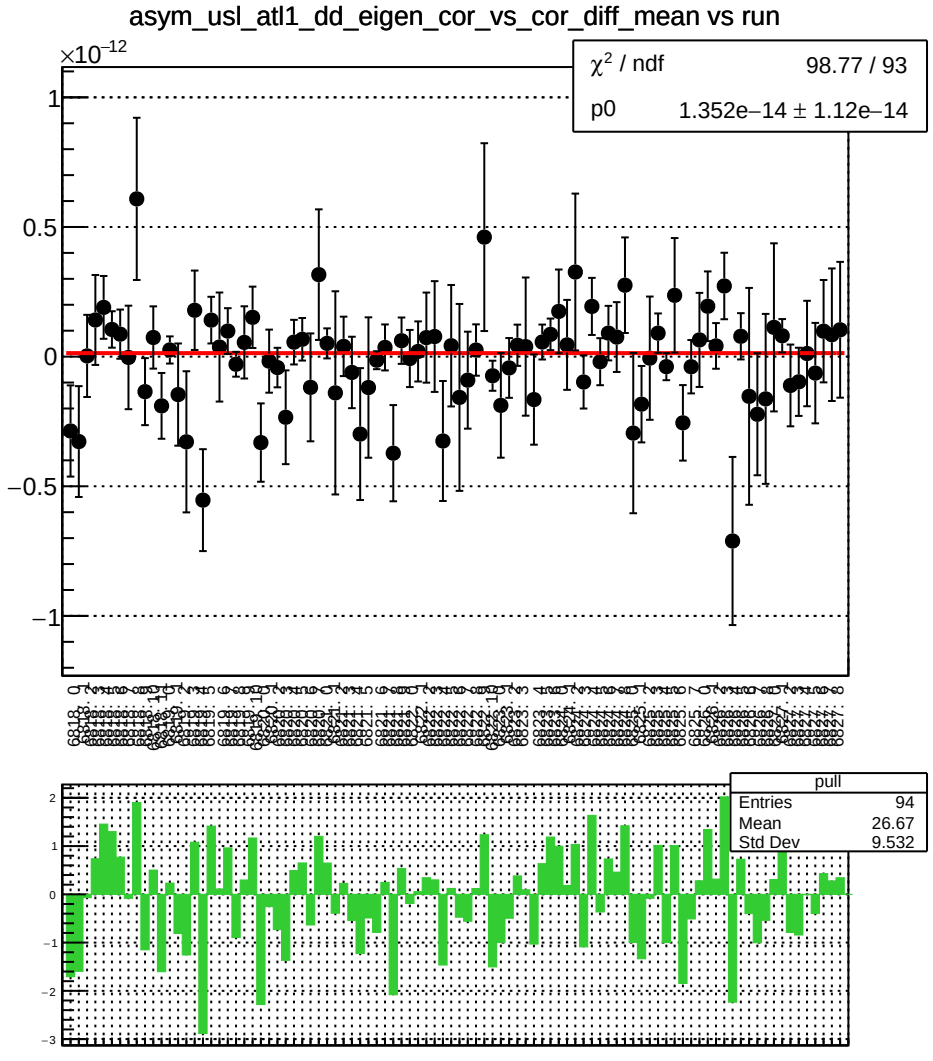

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2312 / 93
p0 0.00195 ± 1.456e−06
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018

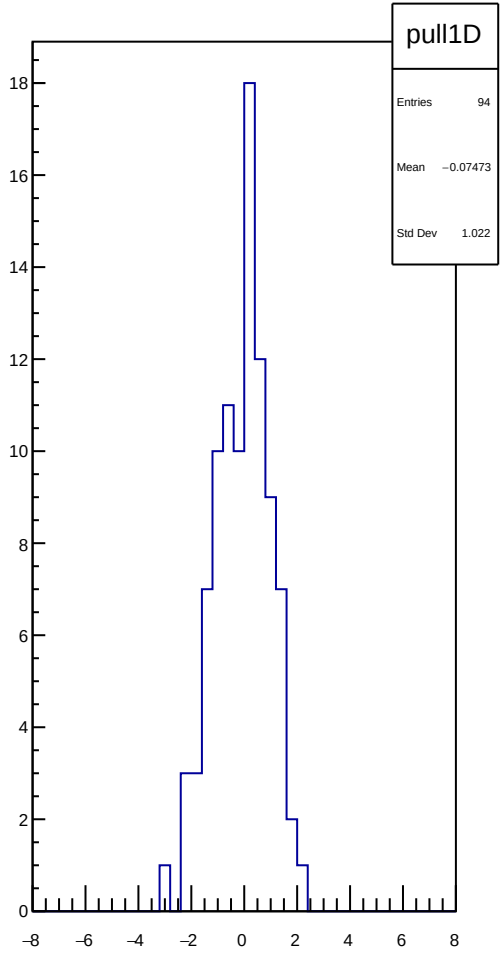

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.37 / 93
p0 −0.006007 ± 0.0206
pull
Entries 94
Mean 66.81
Std Dev 0
pull1D
Entries 94
Mean 0.038
Std Dev 0.9123

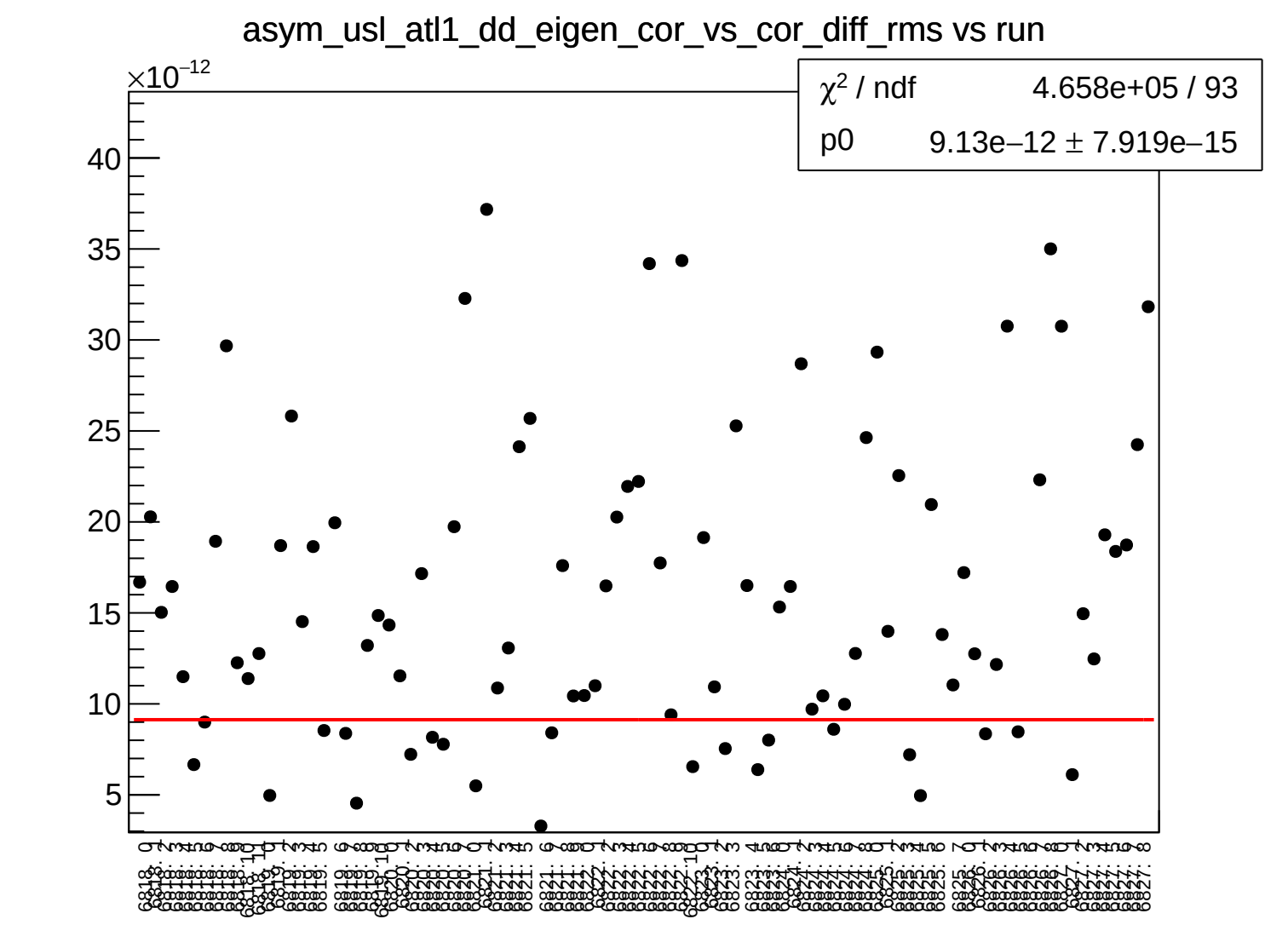

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.608e+05 / 93
p0 17.44 ± 0.01456
50
40
30
20
10

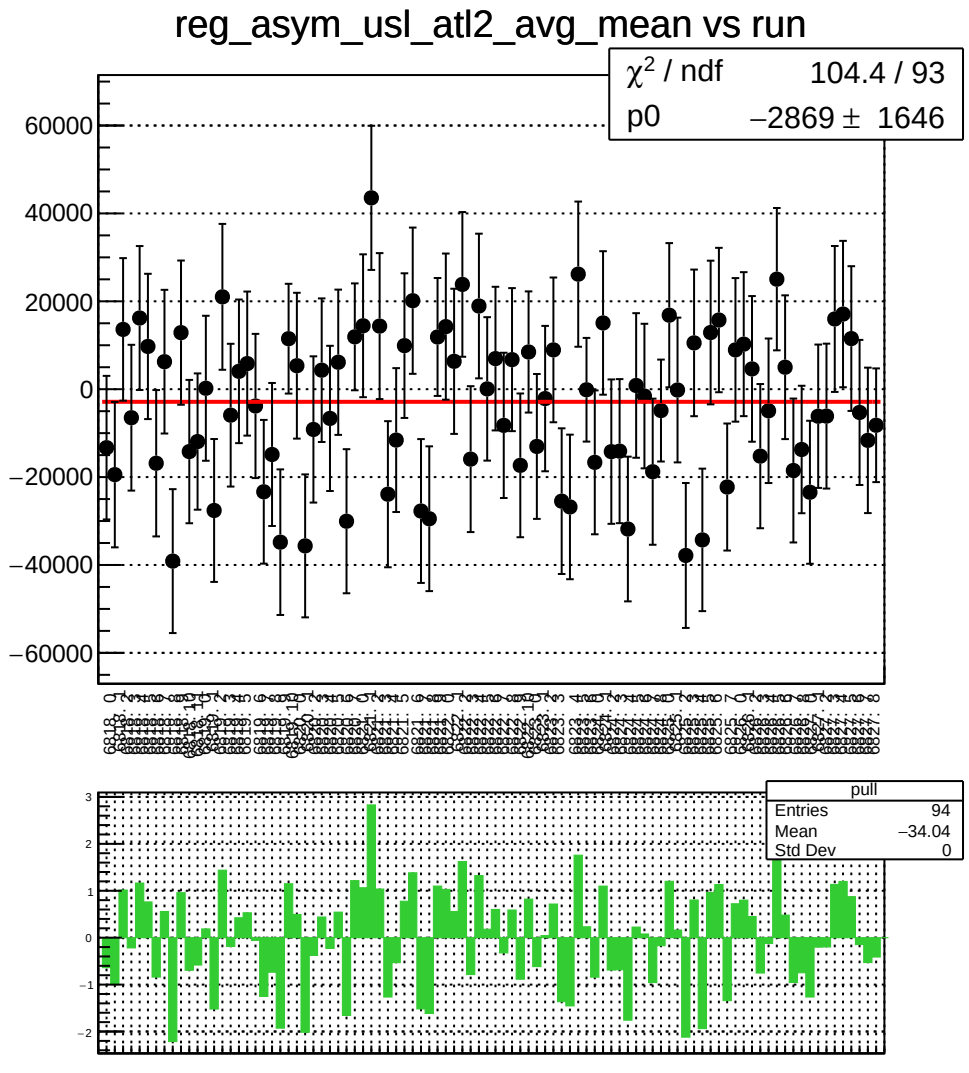

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.37 / 93
p0 −0.006007 ± 0.0206
pull
Entries 94
Mean 66.81
Std Dev 0
pull1D
Entries 94
Mean 0.038
Std Dev 0.9123

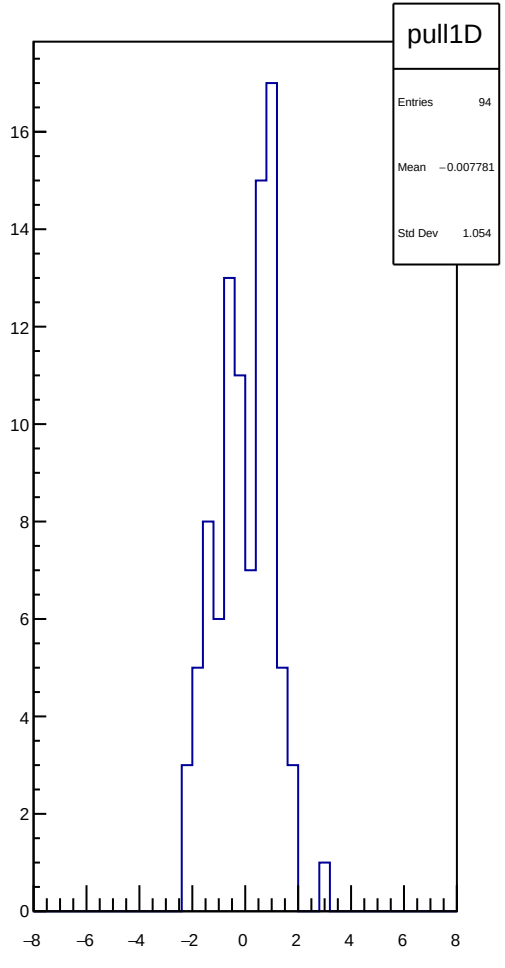

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.608e+05 / 93
p0 17.44 ± 0.01456
50
40
30
20
10

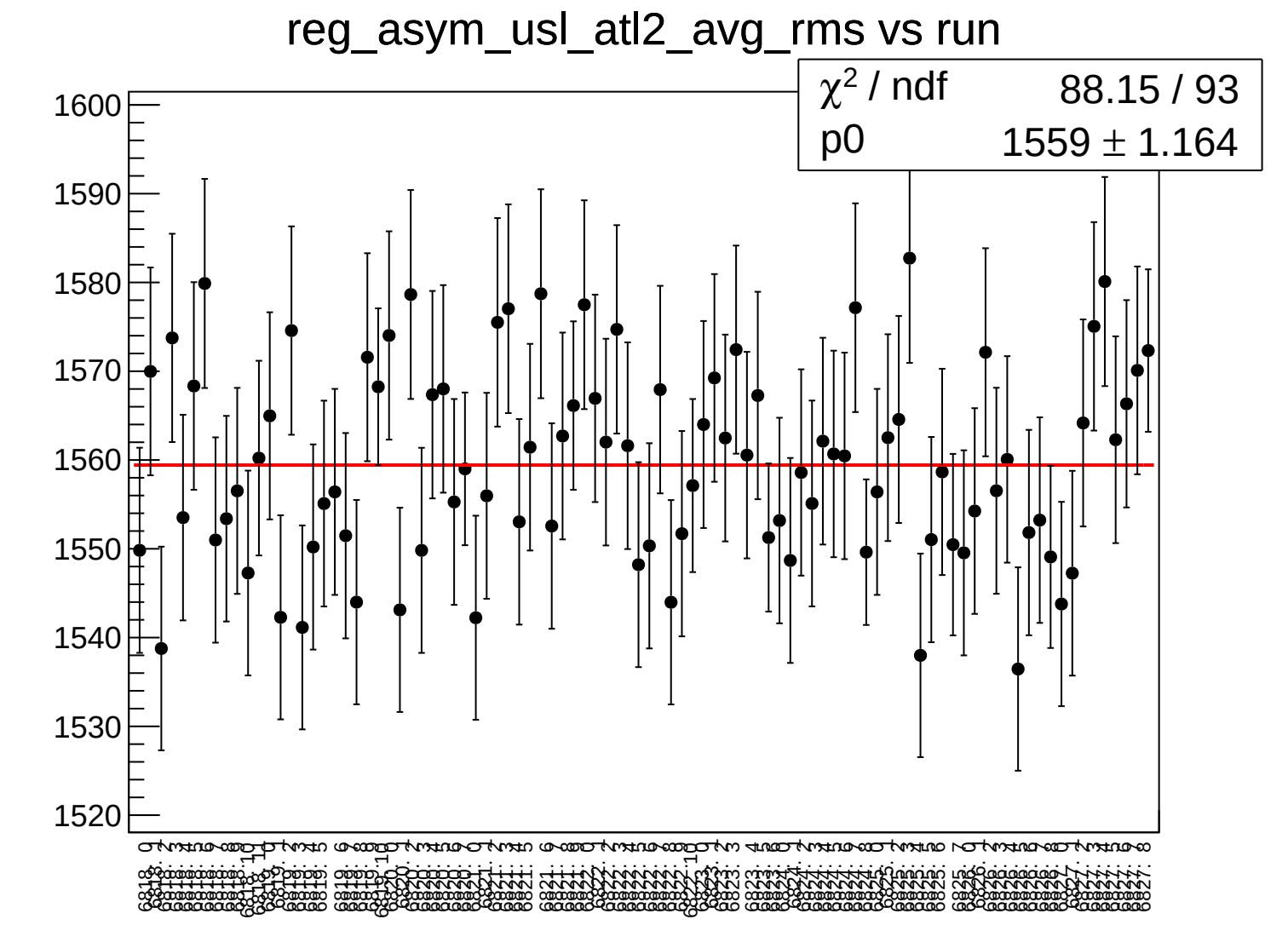

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.77 / 93
p0 1.352e−14 ± 1.12e−14
1
0.5
0
−0.5
−1
pull
Entries 94
Mean 26.67
Std Dev 9.532
2
1
0
−1
−2
−3

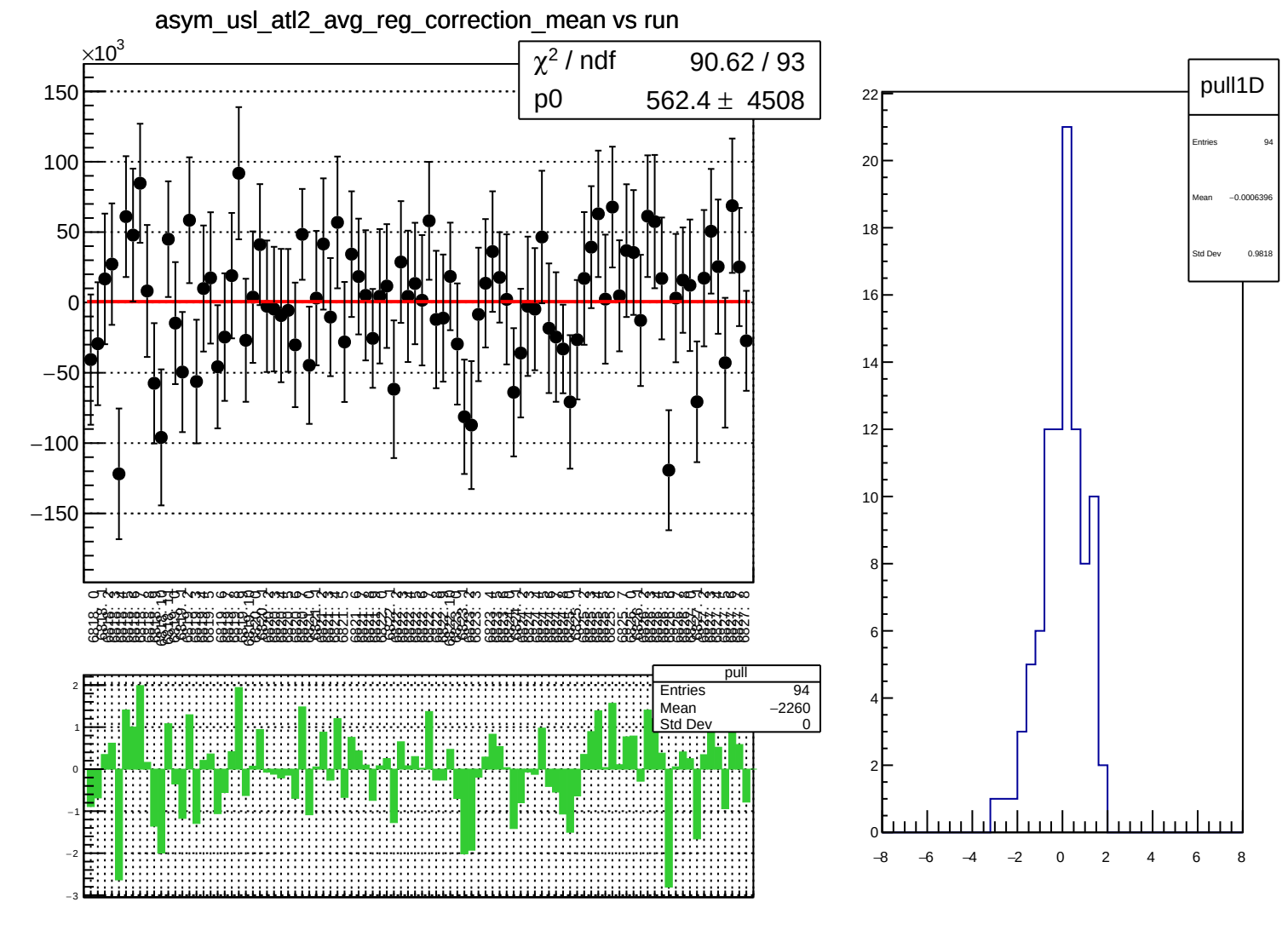

pull1D
Entries 94
Mean −0.07473
Std Dev 1.022
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

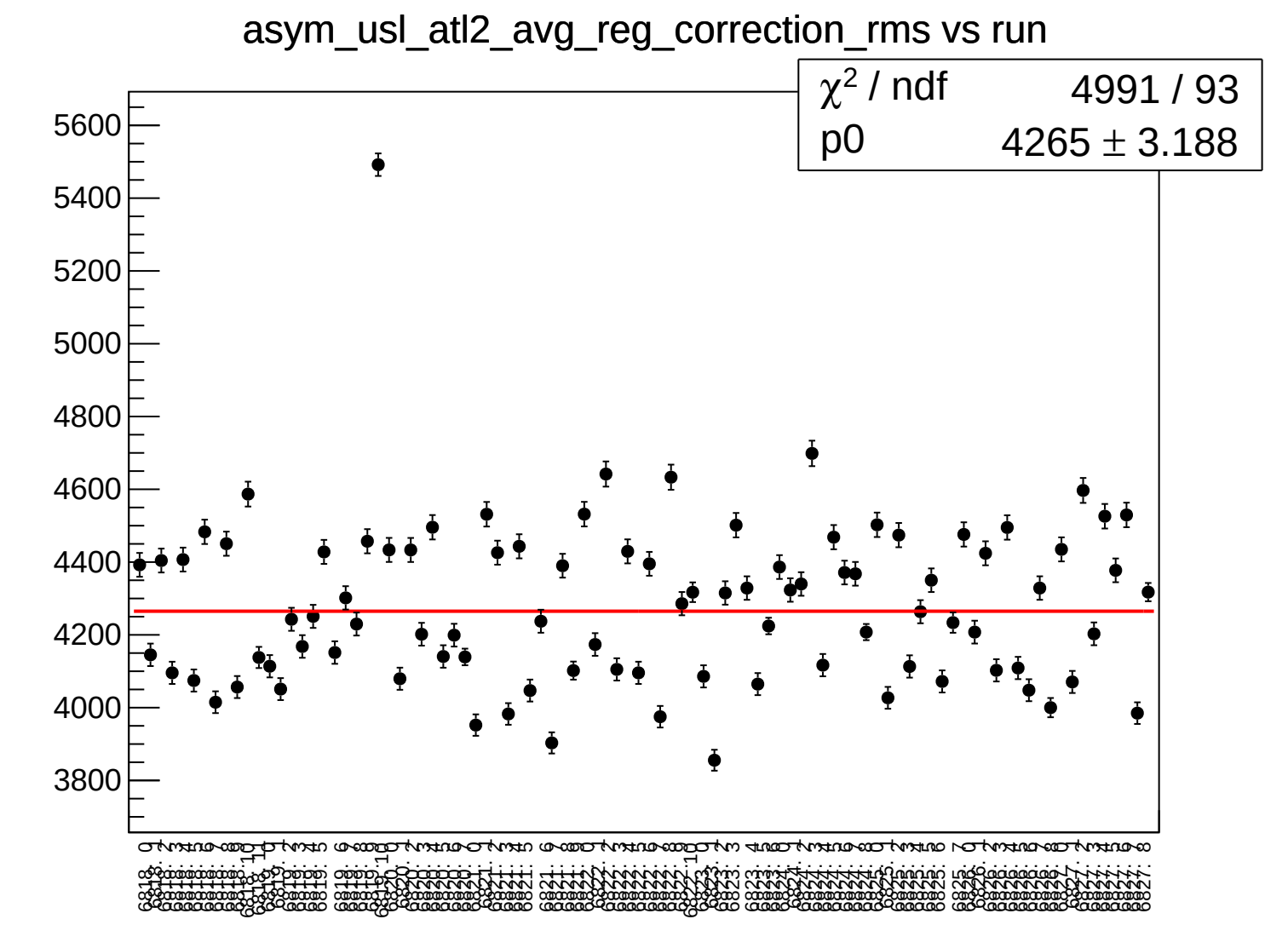

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.658e+05 / 93
p0 9.13e−12 ± 7.919e−15
40
35
30
25
20
15
10
5

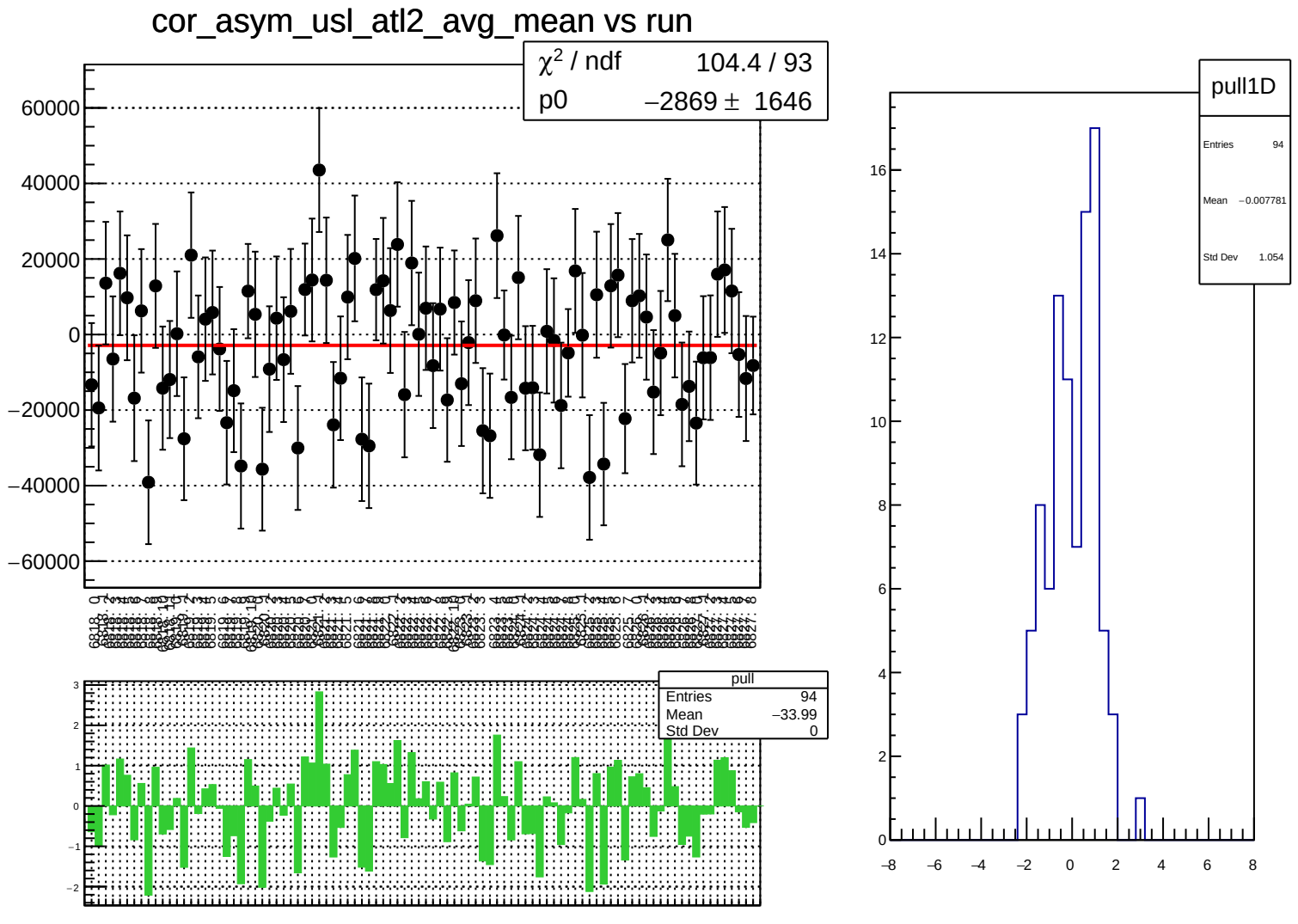

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 104.4 / 93
p0 −2869 ± 1646
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −34.04
Std Dev 0
3
2
1
0
−1
−2

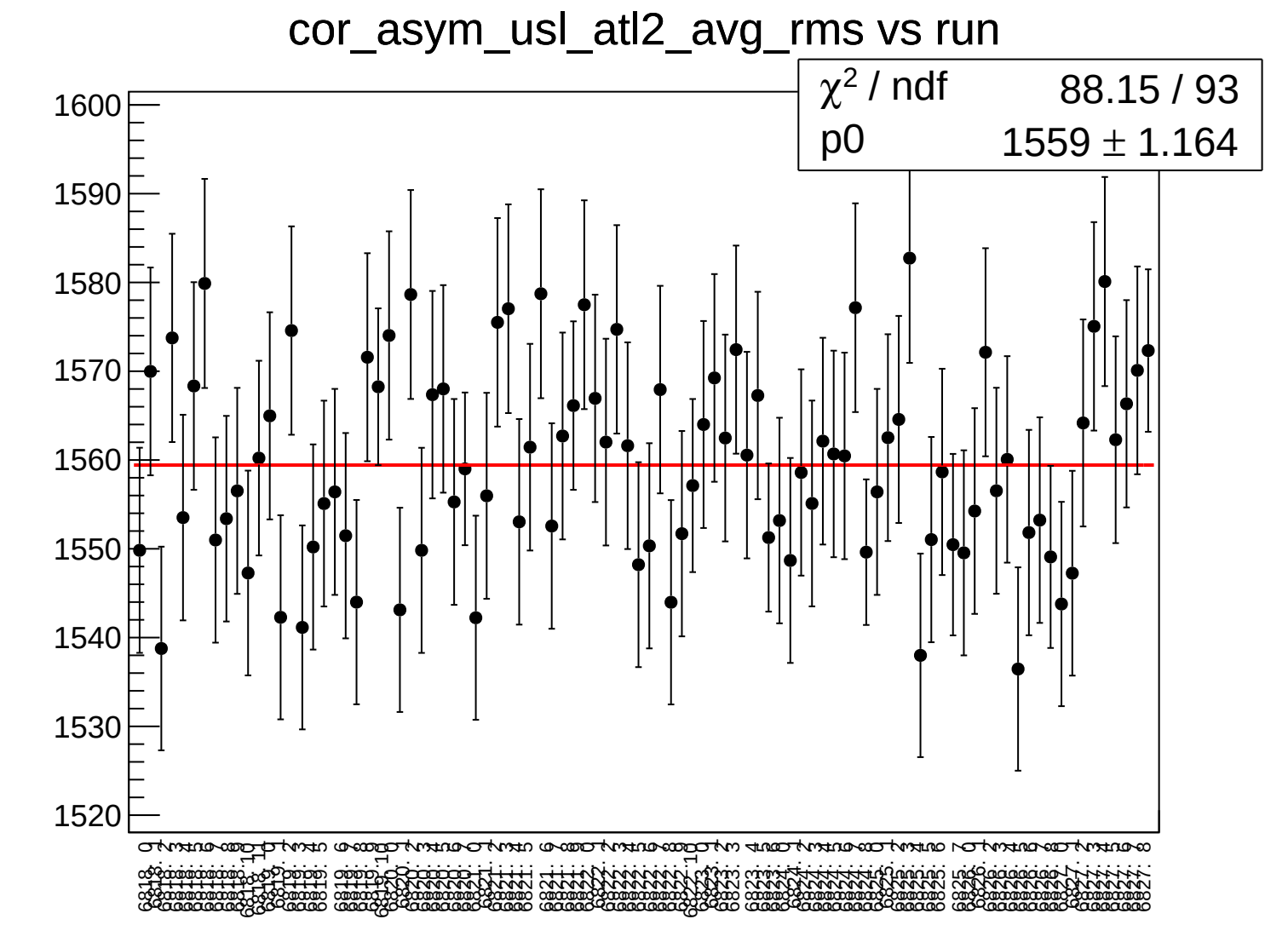

pull1D
Entries 94
Mean −0.007781
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

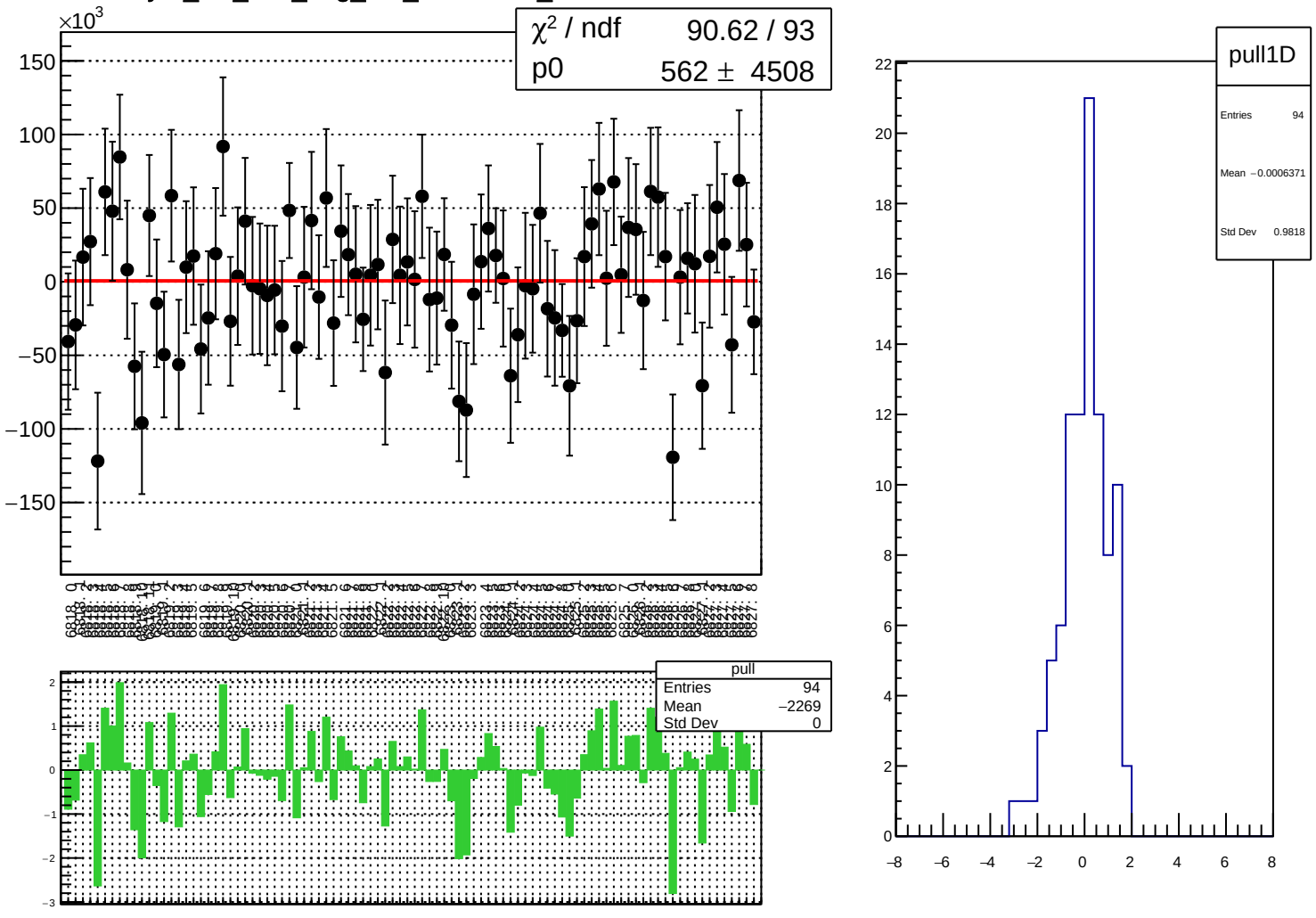

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 88.15 / 93
p0 1559 ± 1.164
1600
1590
1580
1570
1560
1550
1540
1530
1520

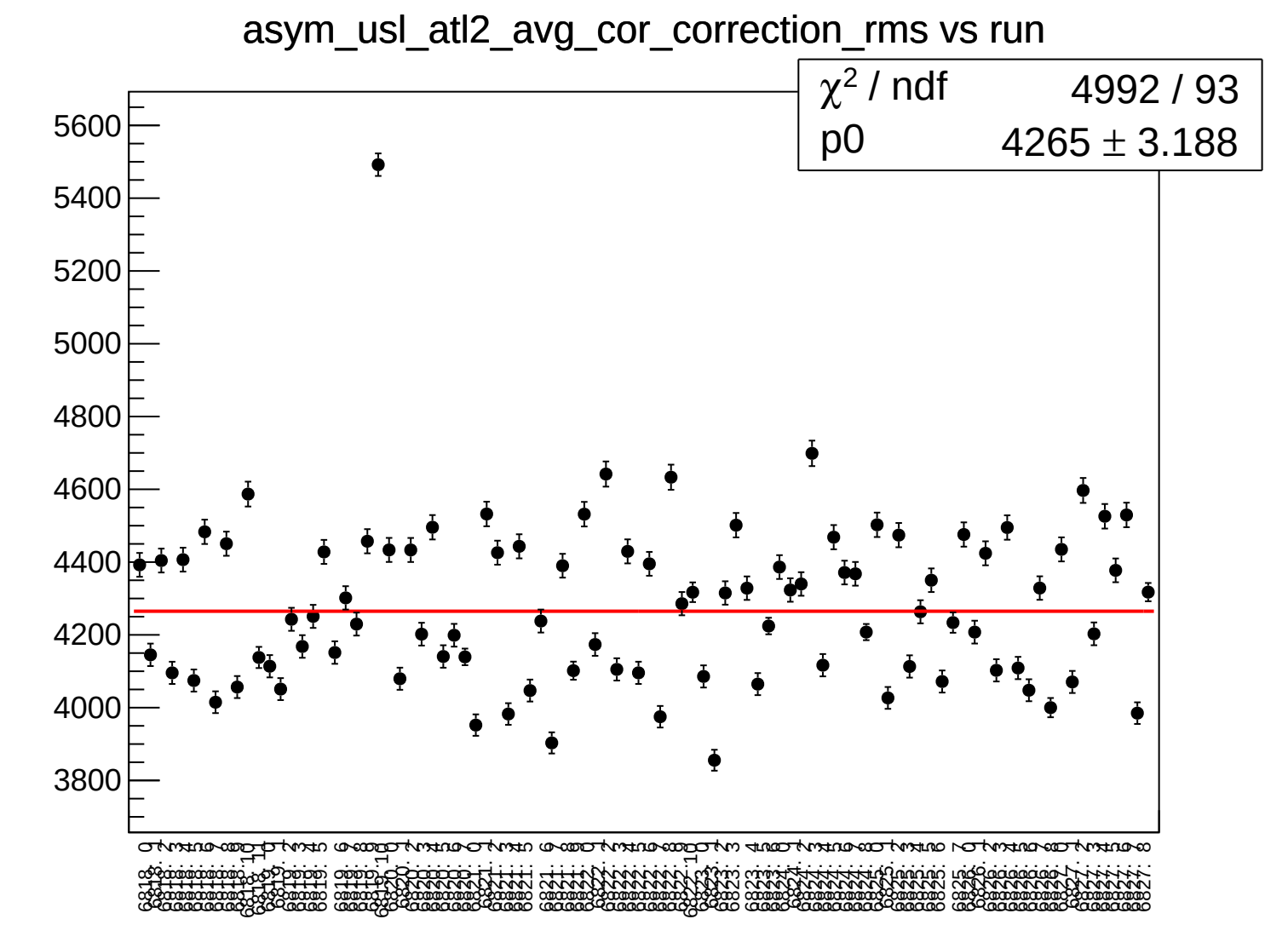

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.62 / 93
p0 562.4 ± 4508
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −2260
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0006396
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

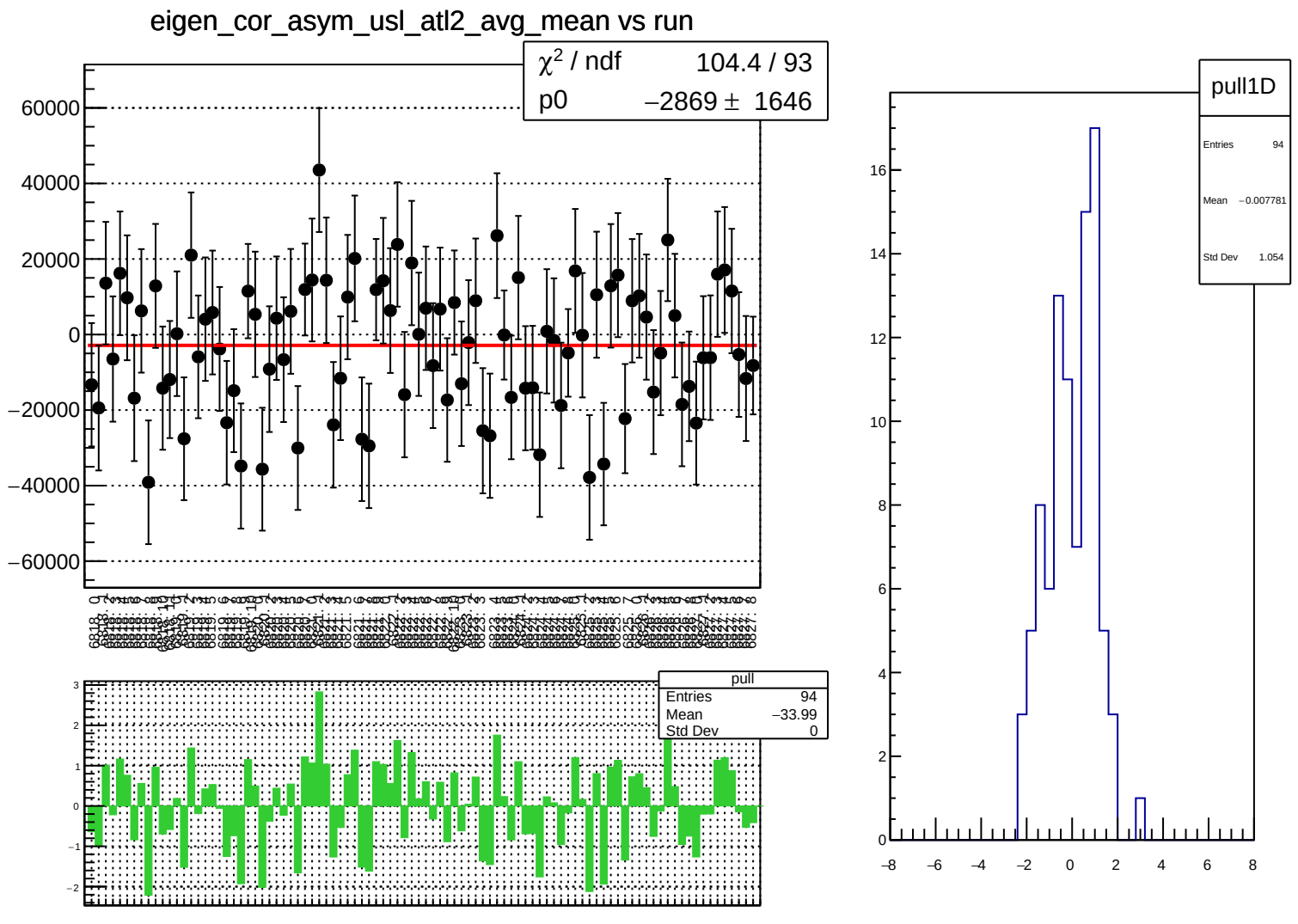

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4991 / 93
p0 4265 ± 3.188
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

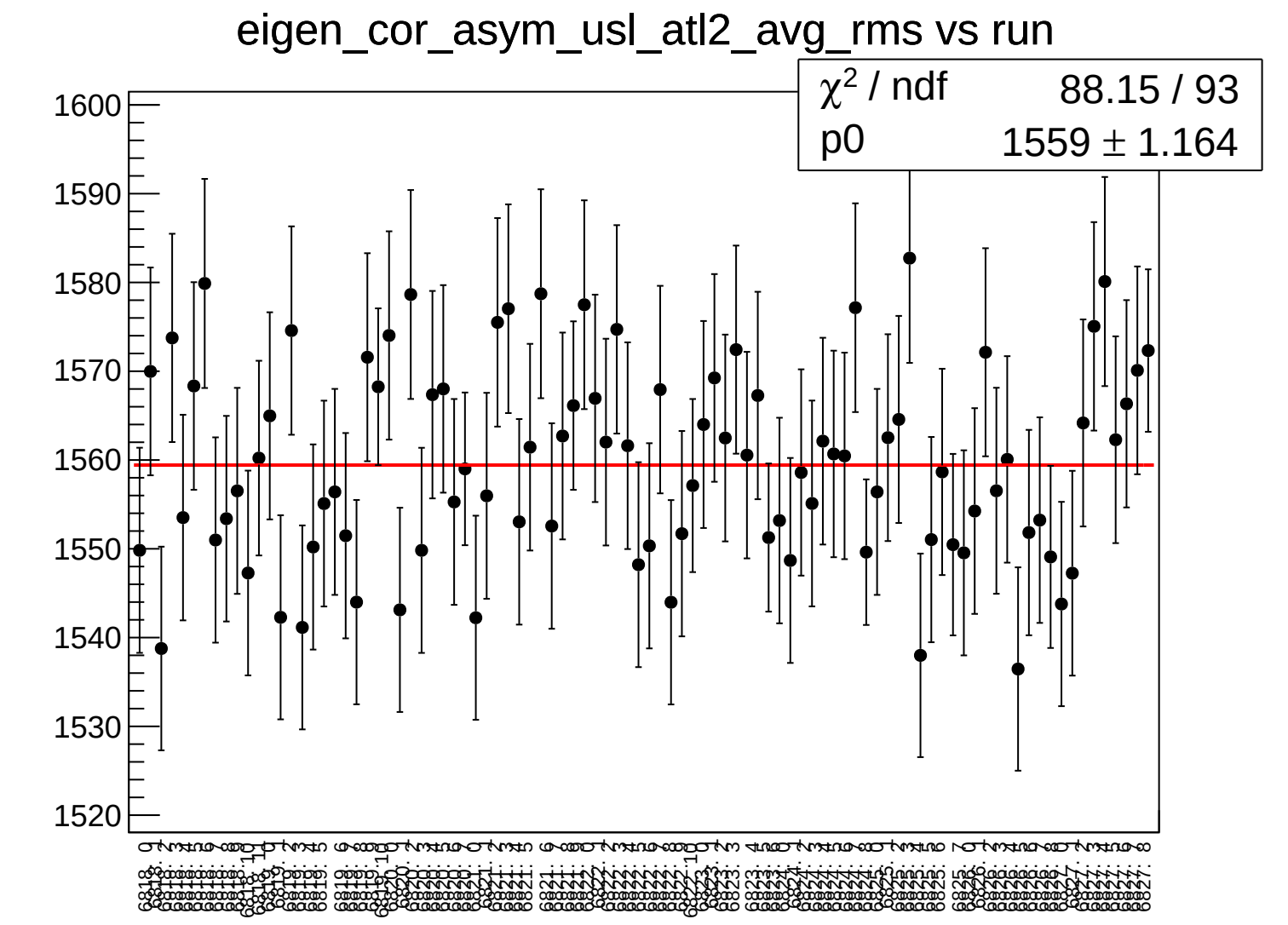

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 104.4 / 93
p0 −2869 ± 1646
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −33.99
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007781
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

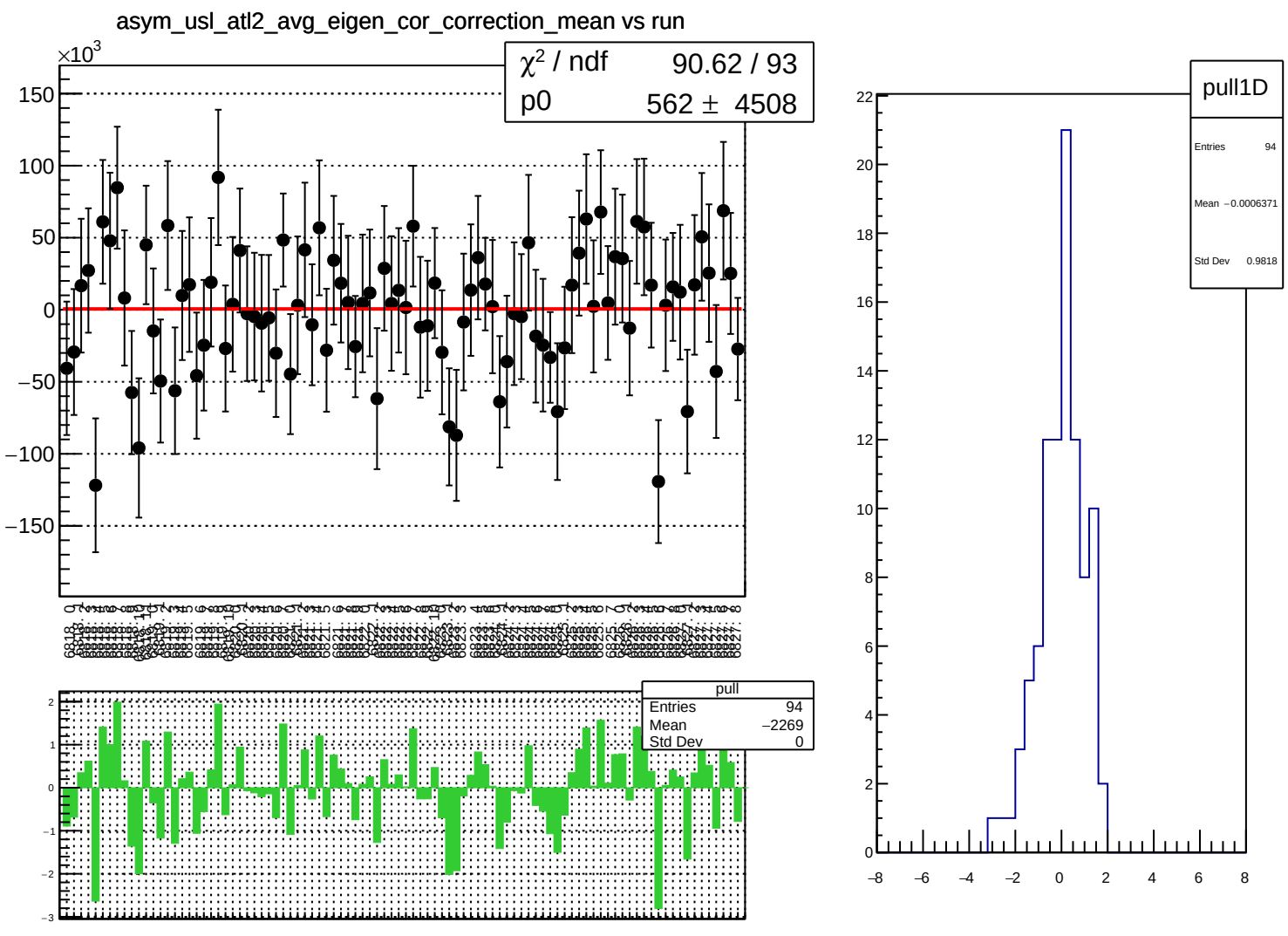

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 88.15 / 93
p0 1559 ± 1.164
1600
1590
1580
1570
1560
1550
1540
1530
1520

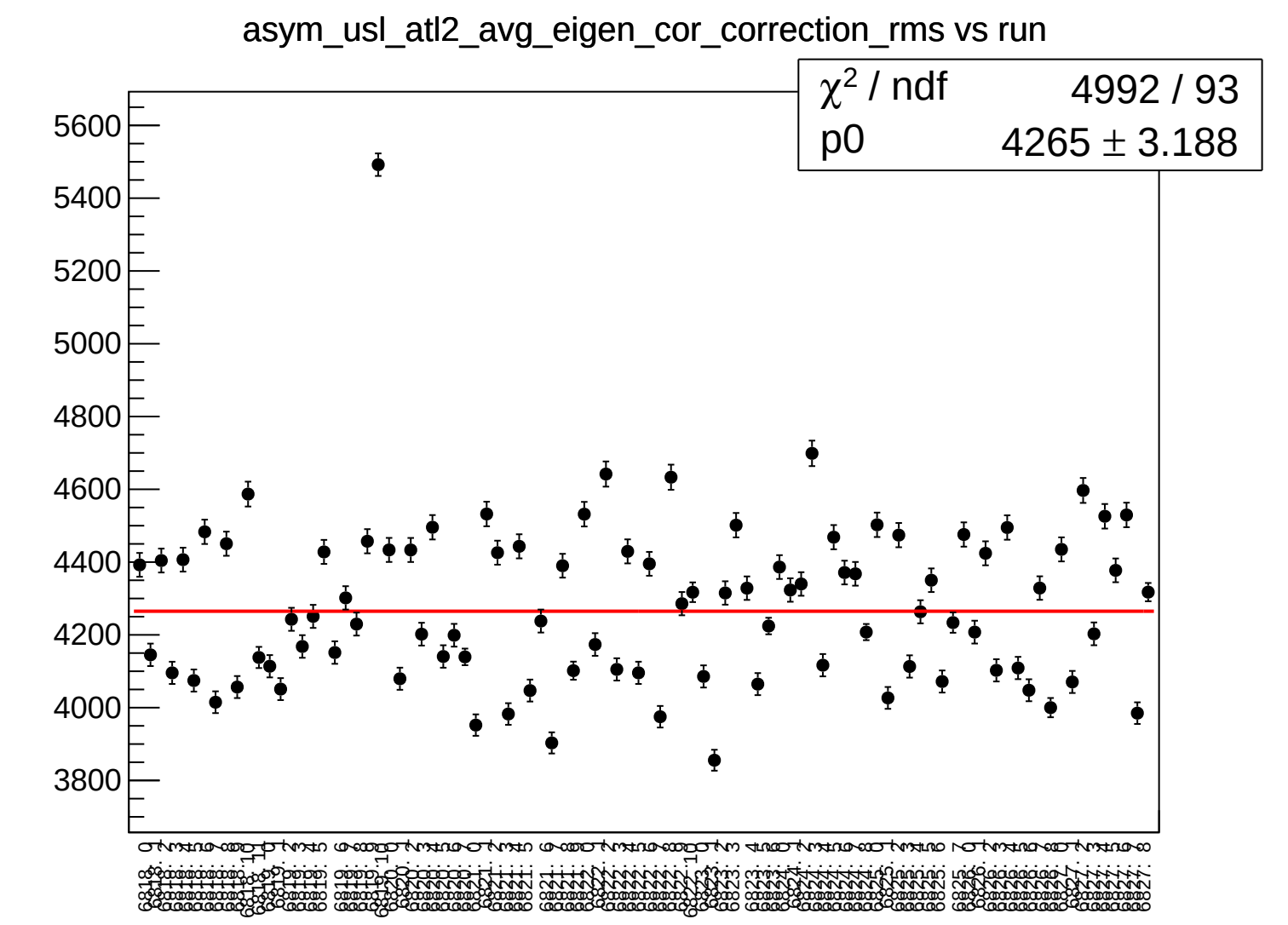

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.62 / 93
p0 562 ± 4508
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −2269
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0006371
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

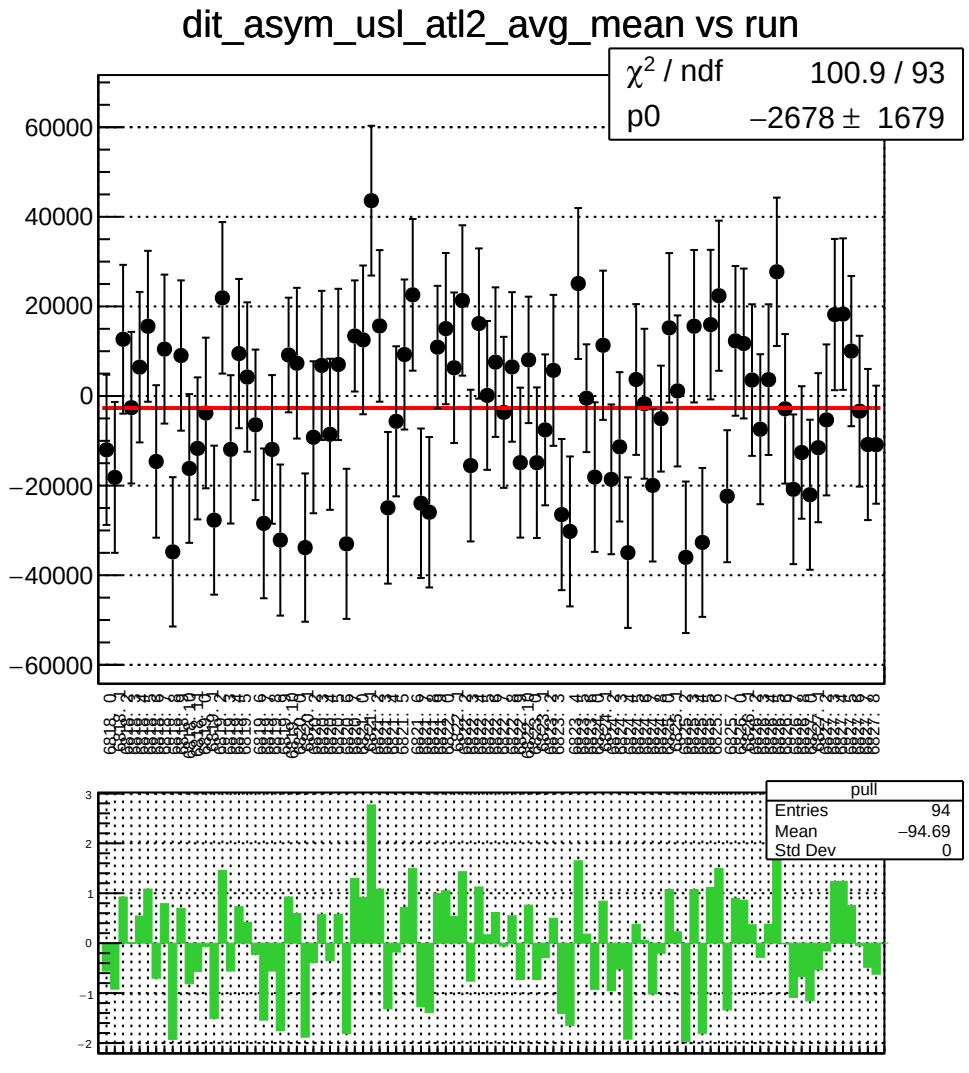

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4992 / 93
p0 4265 ± 3.188
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

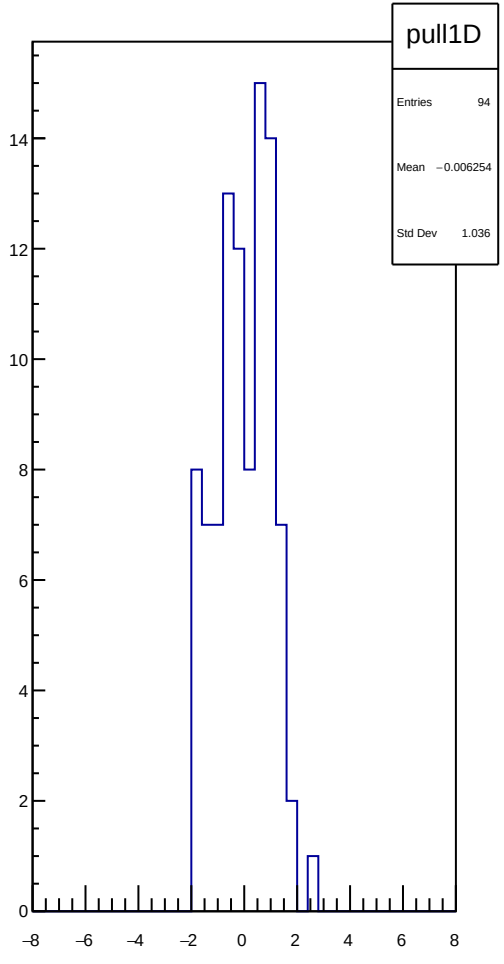

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 104.4 / 93
p0 −2869 ± 1646
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −33.99
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007781
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

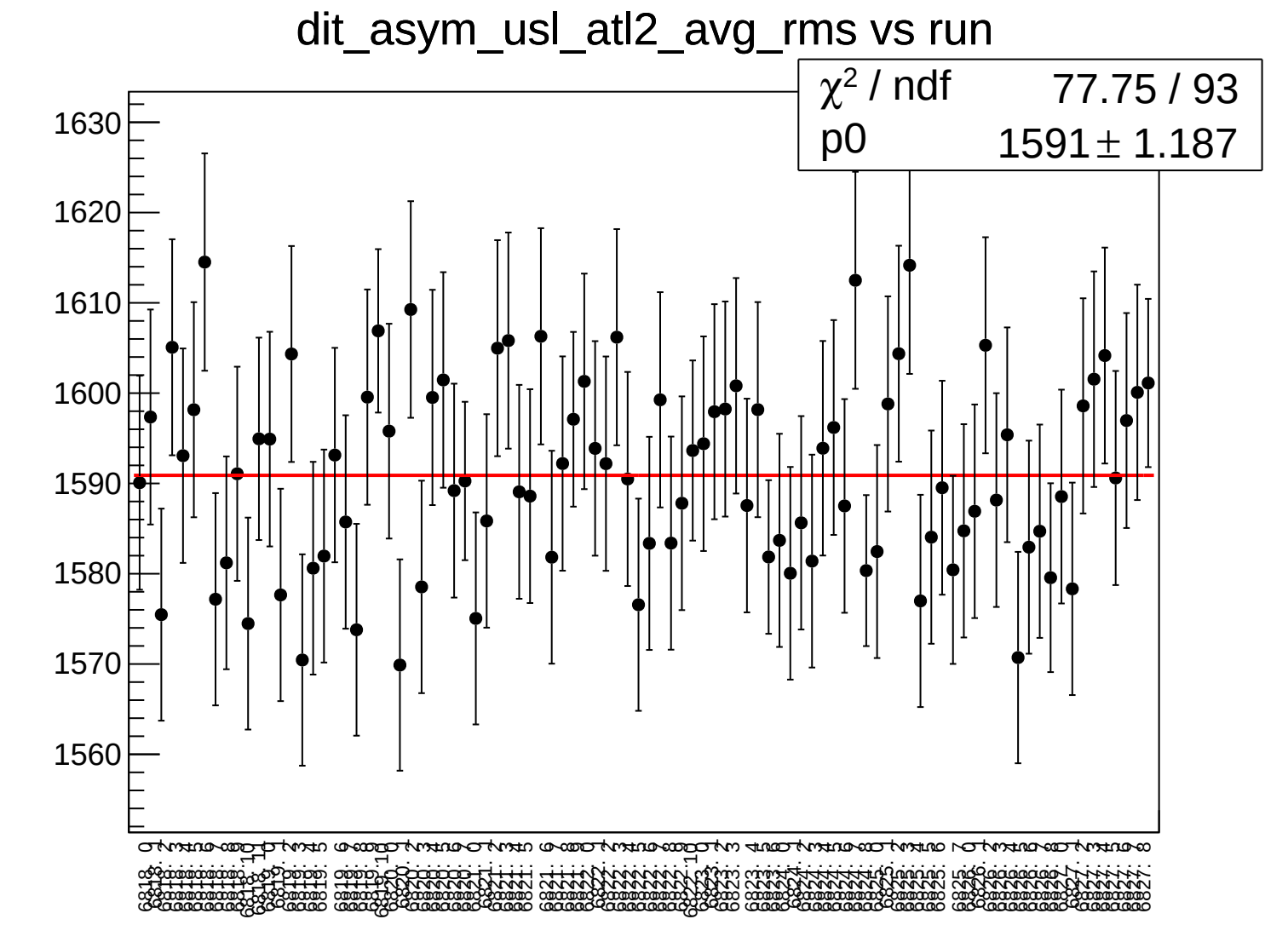

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 88.15 / 93
p0 1559 ± 1.164
1600
1590
1580
1570
1560
1550
1540
1530
1520

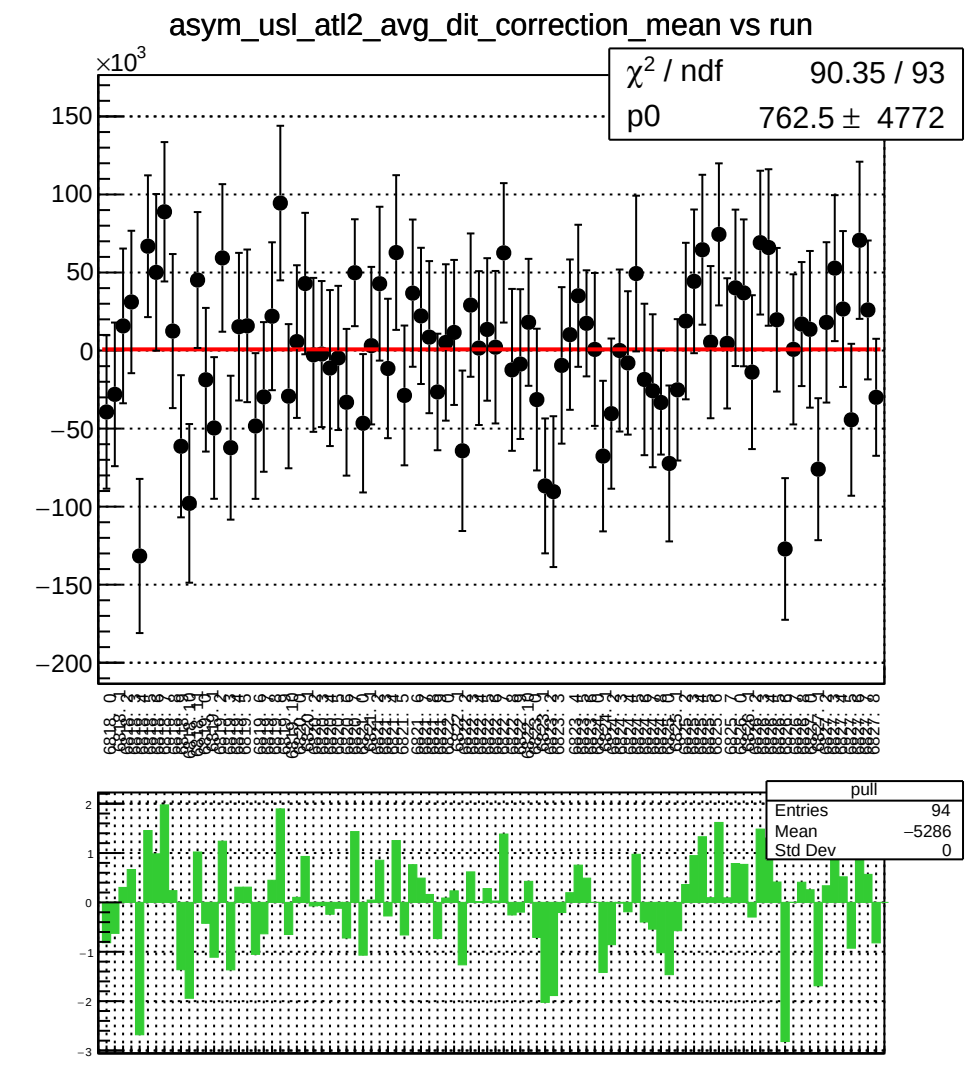

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.62 / 93
p0 562 ± 4508
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −2269
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0006371
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

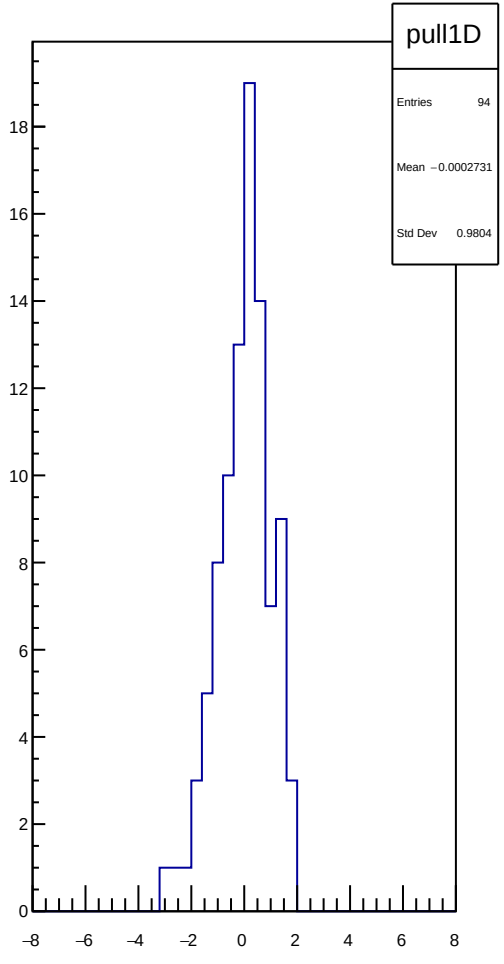

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4992 / 93
p0 4265 ± 3.188
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

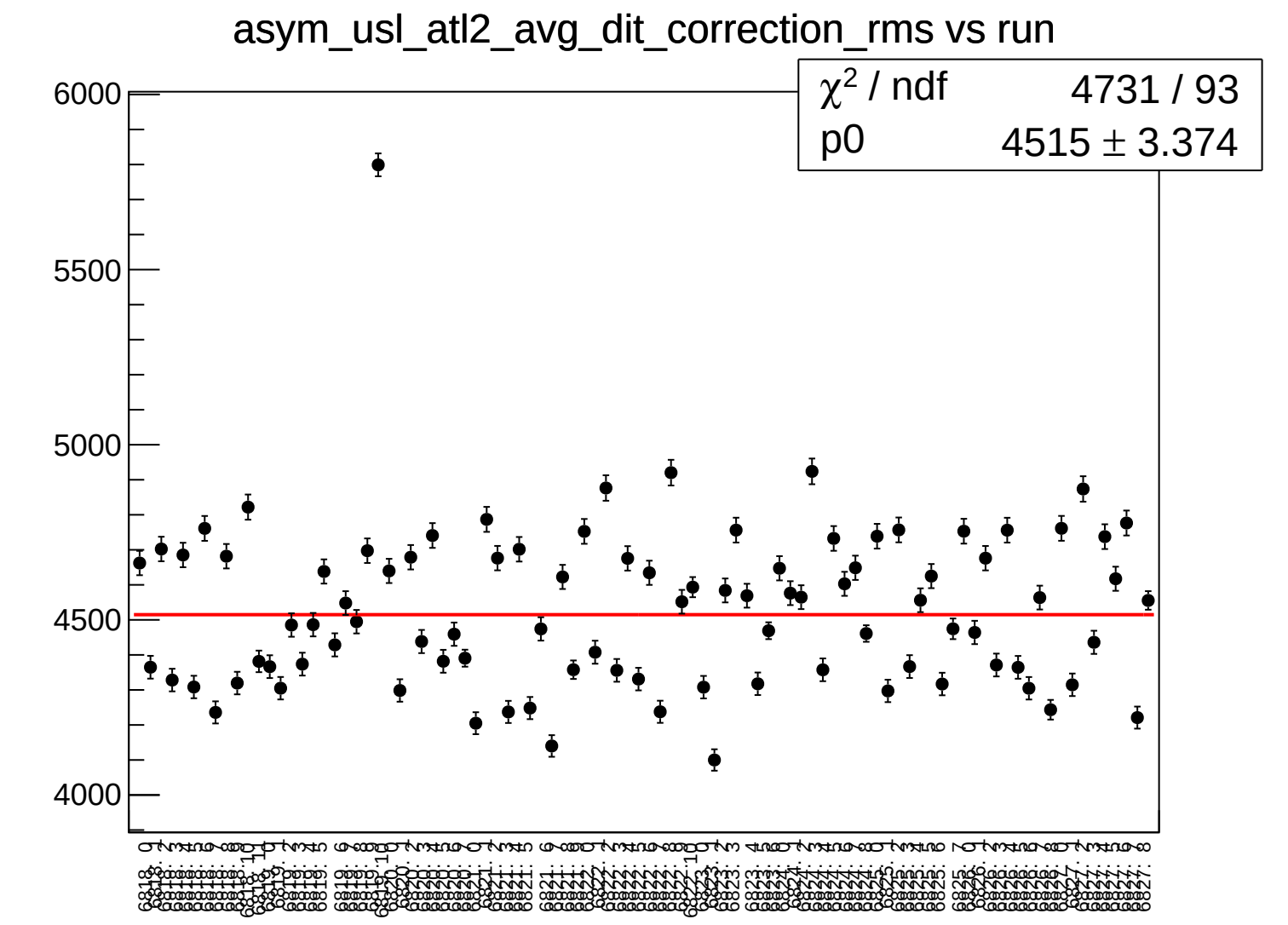

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −2678 ± 1679
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −94.69
Std Dev 0
3
2
1
0
−1
−2

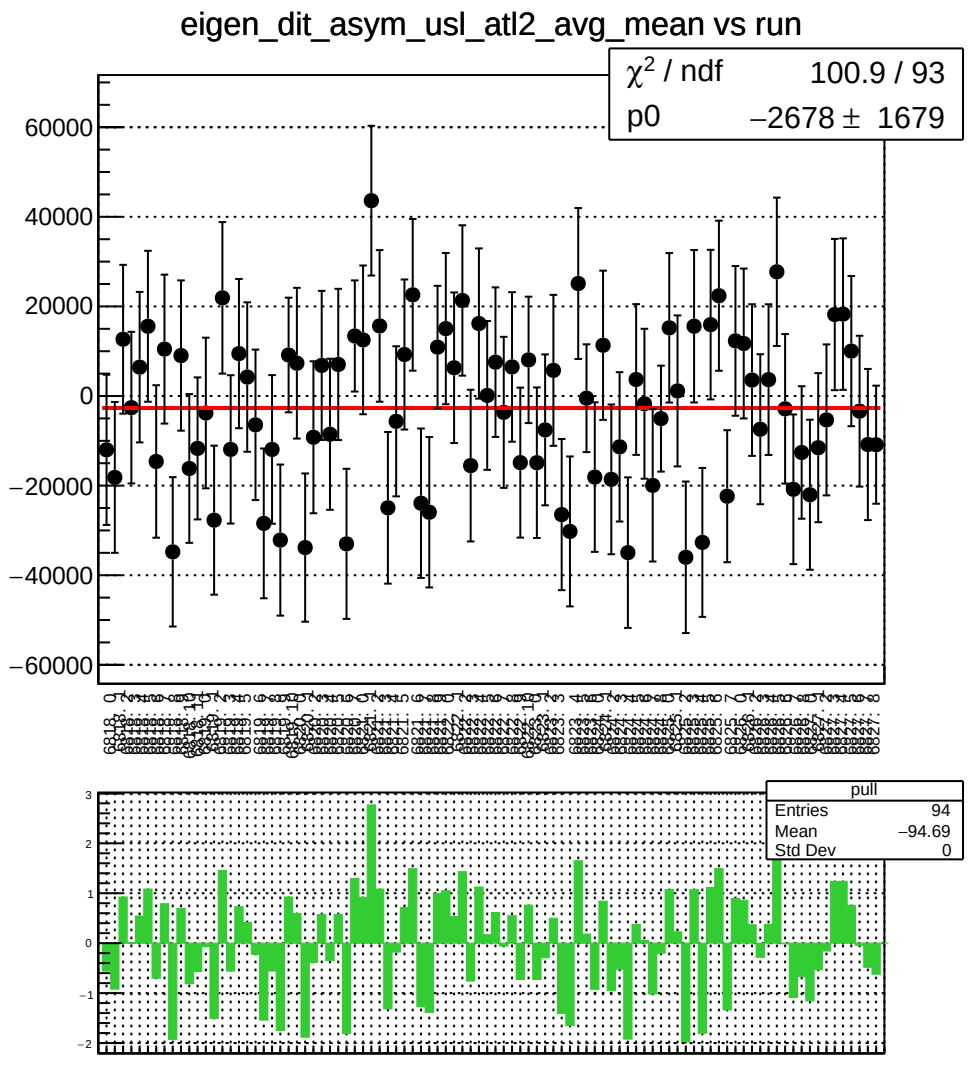

pull1D
Entries 94
Mean −0.006254
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

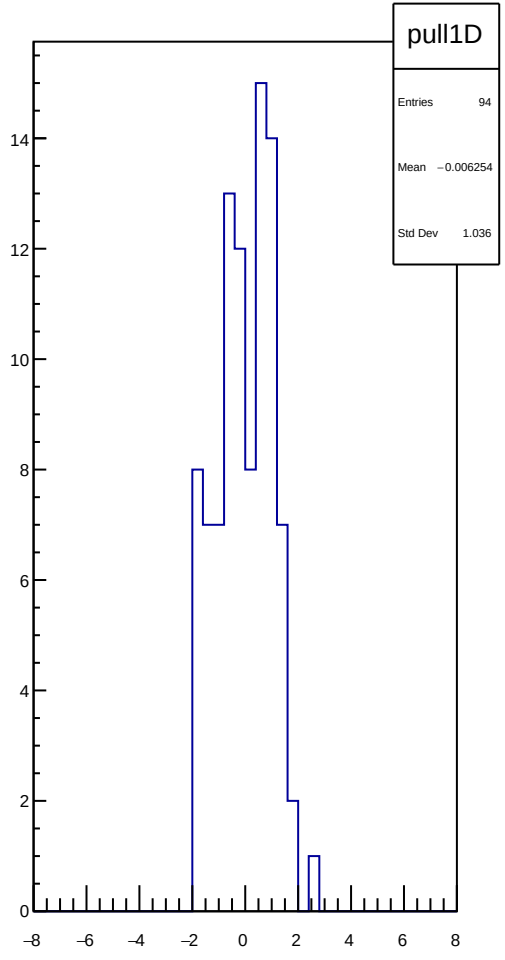

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 77.75 / 93
p0 1591 ± 1.187
1630
1620
1610
1600
1590
1580
1570
1560

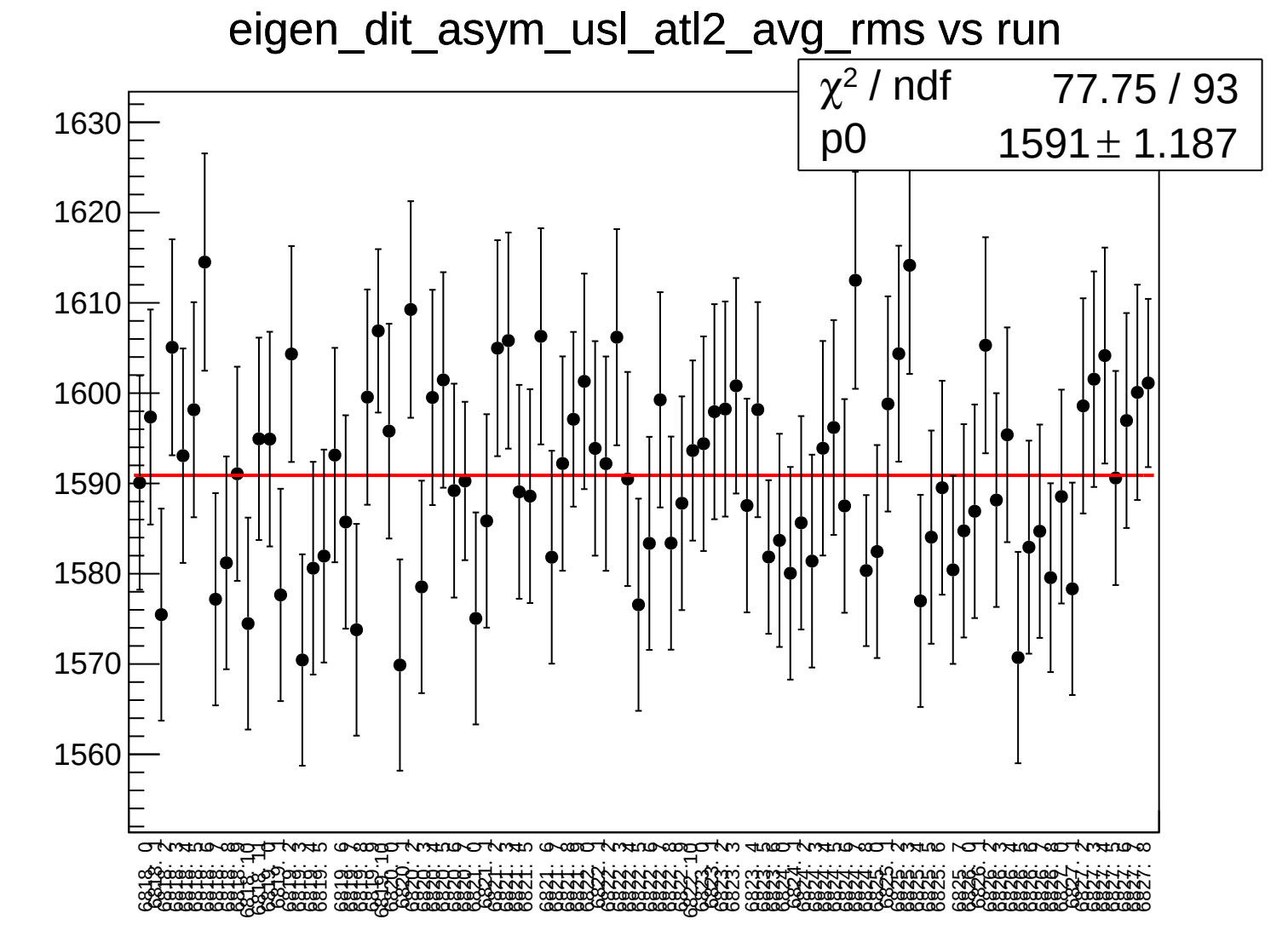

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.35 / 93
p0 762.5 ± 4772
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −5286
Std Dev 0
2
1
0
−1
−2
−3

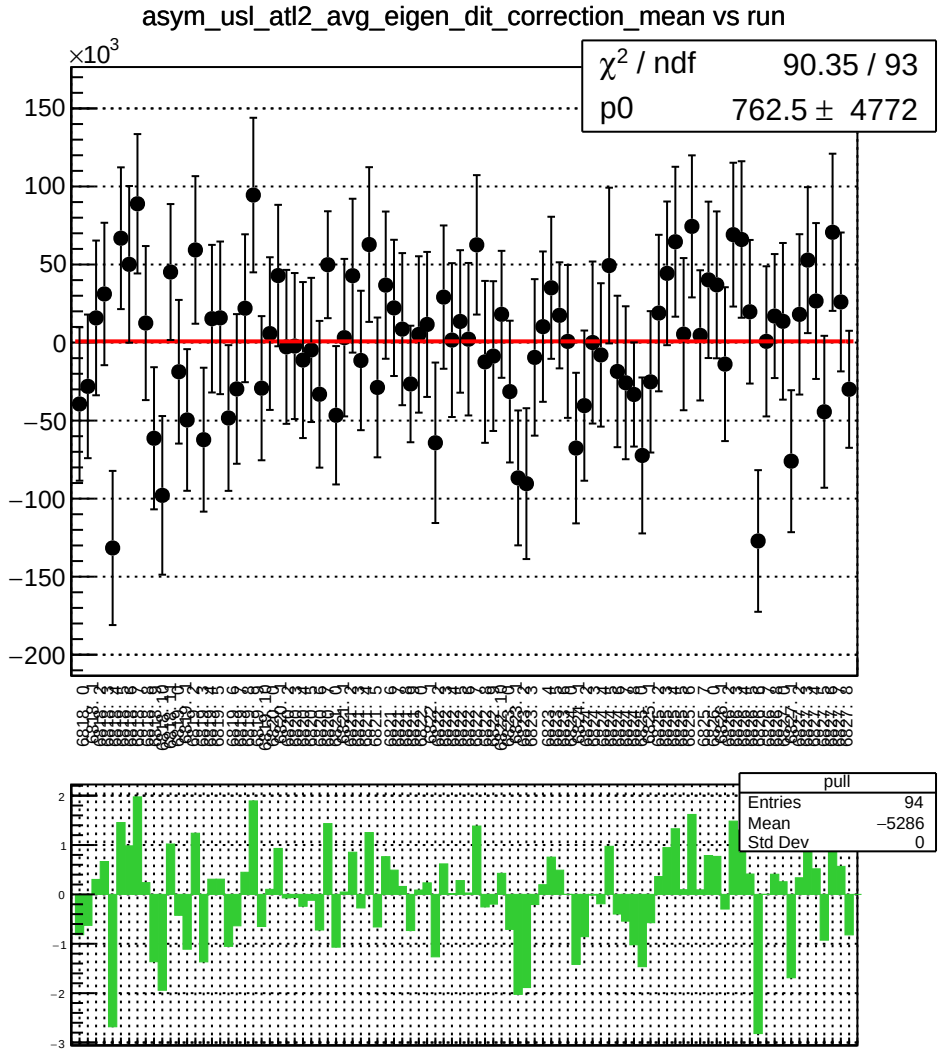

pull1D
Entries 94
Mean −0.0002731
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

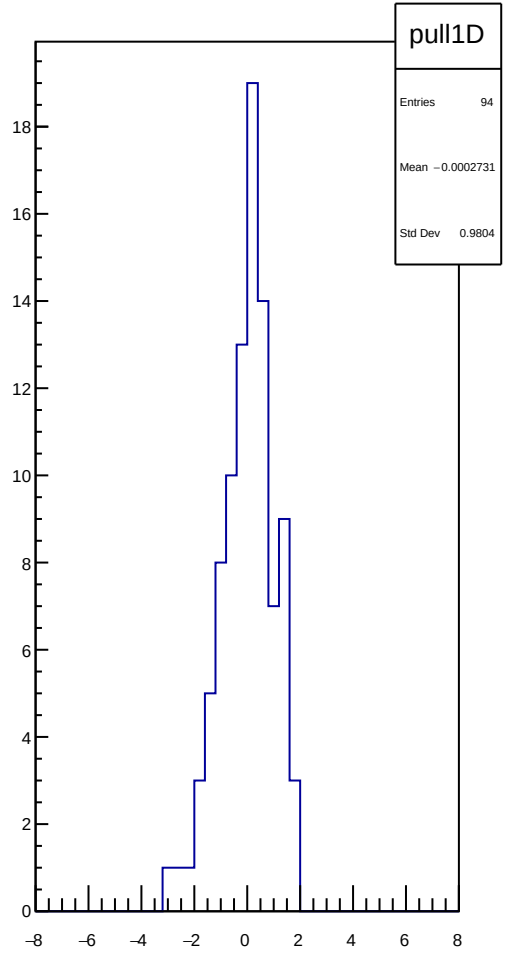

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4731 / 93
p0 4515 ± 3.374
6000
5500
5000
4500
4000

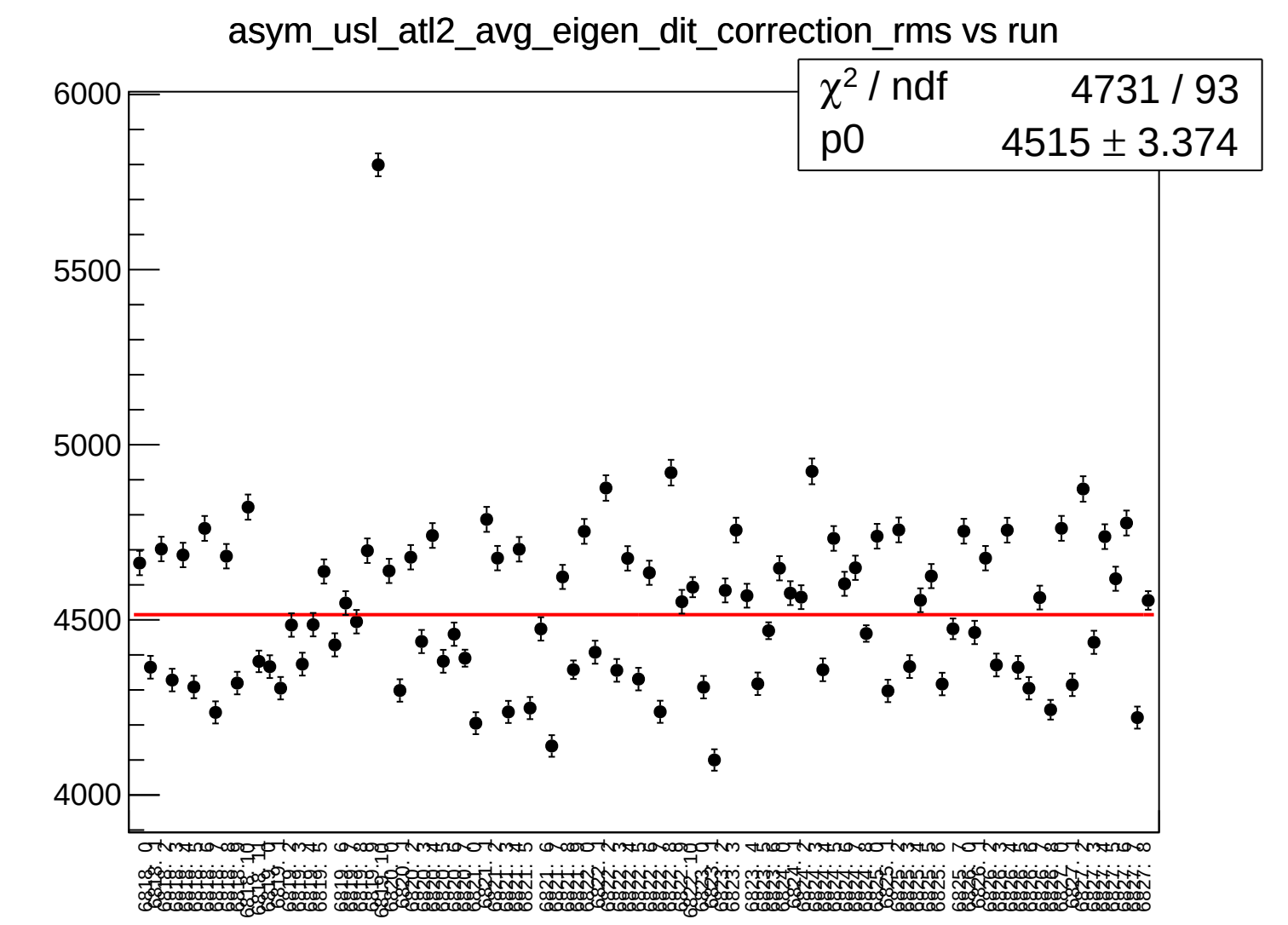

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 100.9 / 93
p0 −2678 ± 1679
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −94.69
Std Dev 0
3
2
1
0
−1
−2

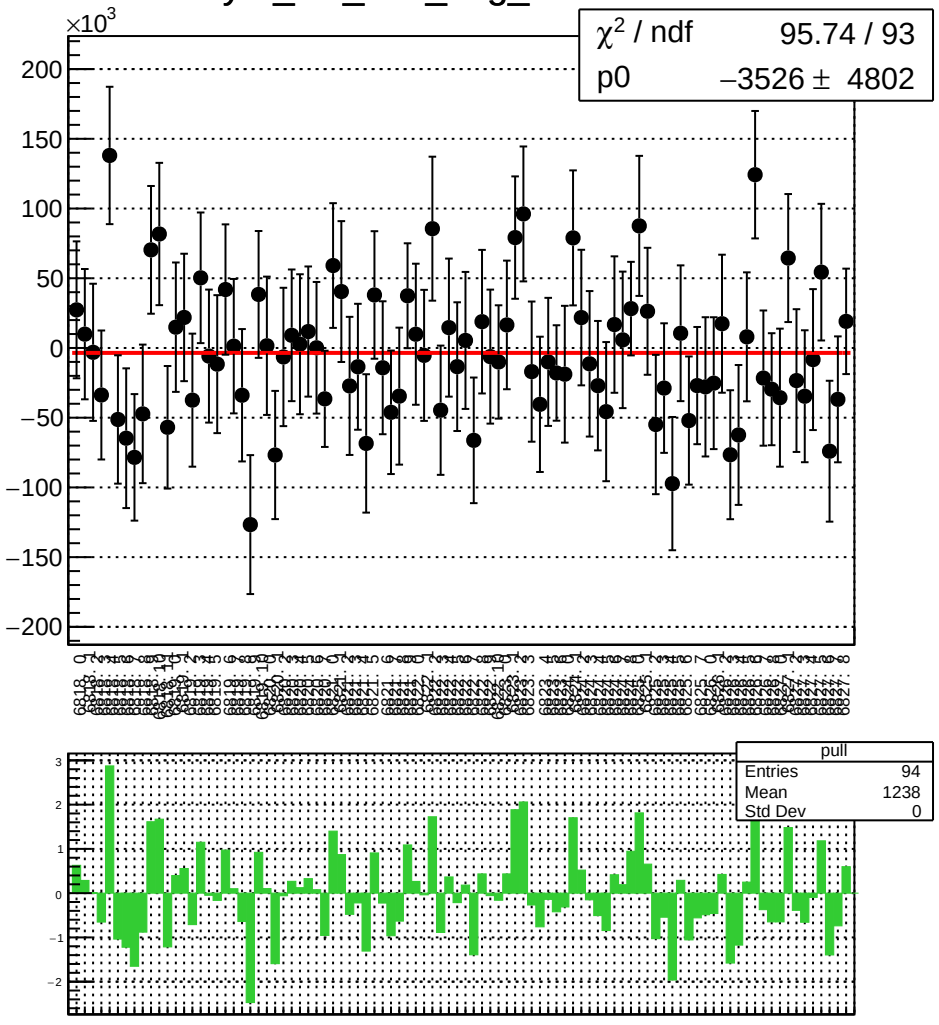

pull1D
Entries 94
Mean −0.006254
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

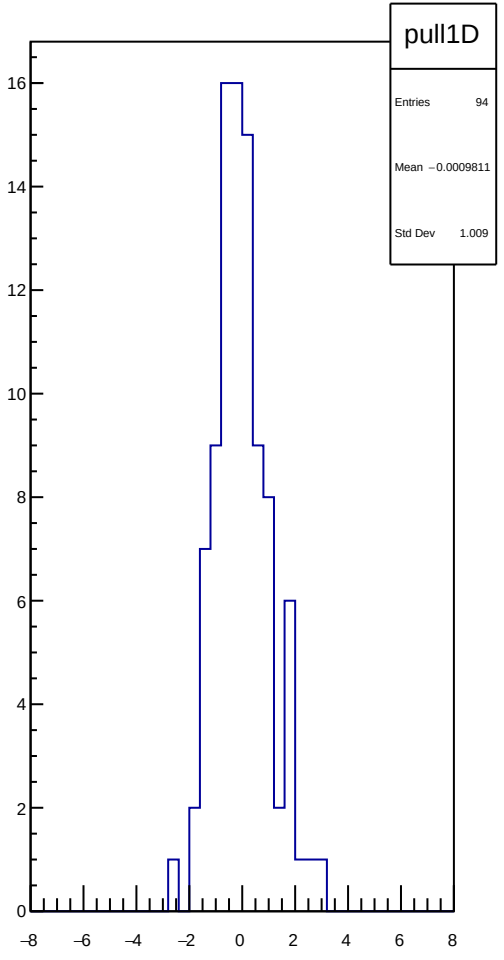

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 77.75 / 93
p0 1591 ± 1.187
1630
1620
1610
1600
1590
1580
1570
1560

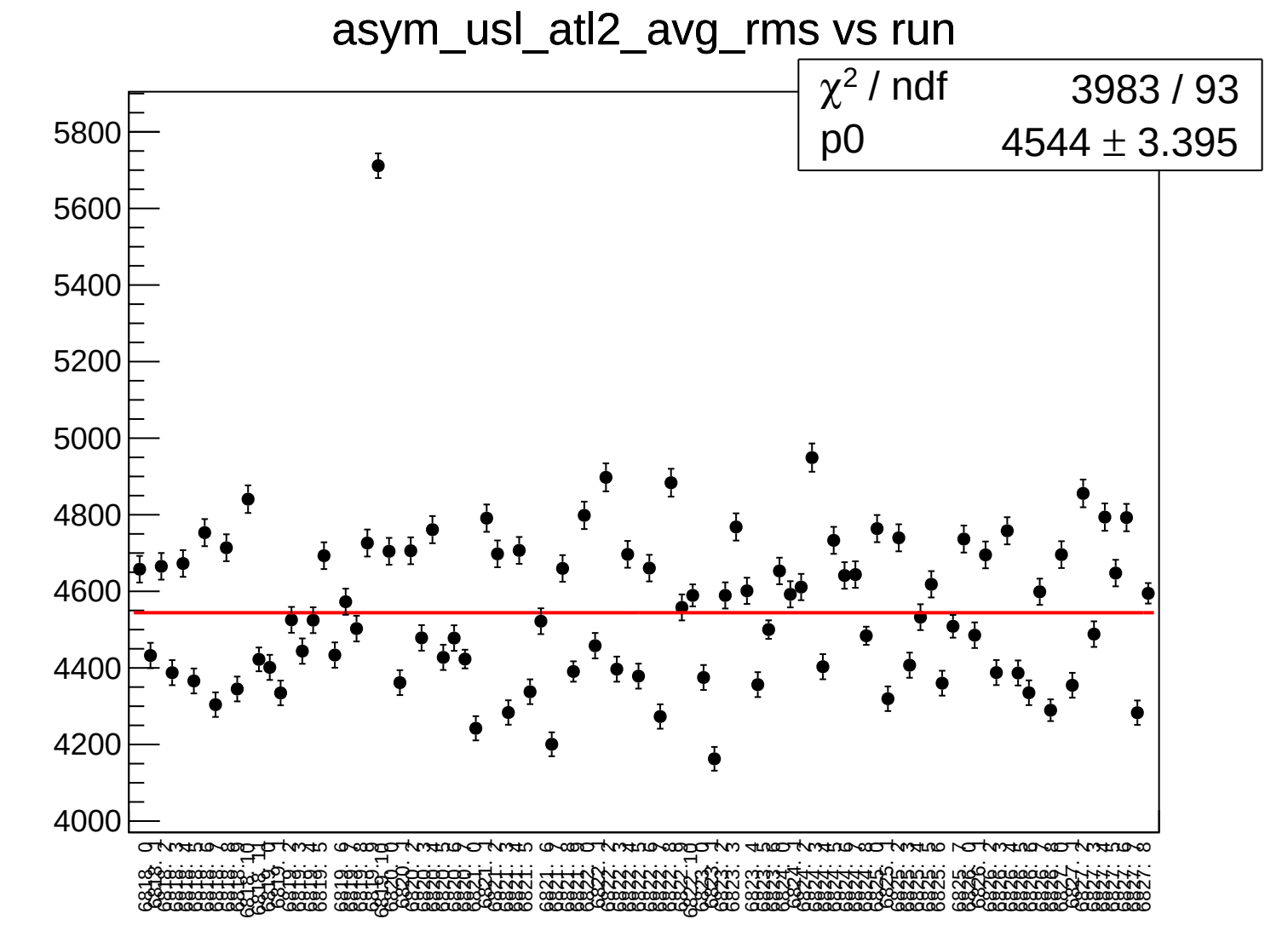

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.35 / 93
p0 762.5 ± 4772
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −5286
Std Dev 0
2
1
0
−1
−2
−3

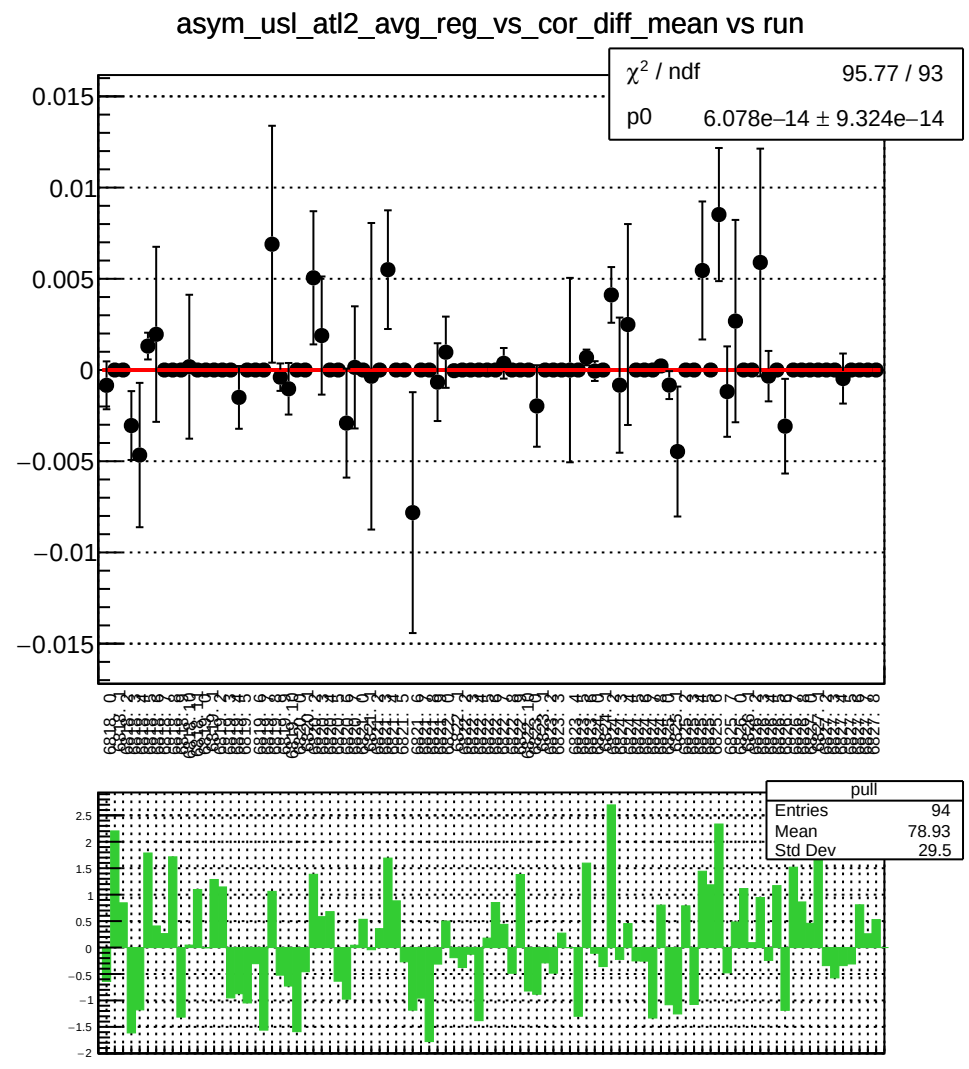

pull1D
Entries 94
Mean −0.0002731
Std Dev 0.9804
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

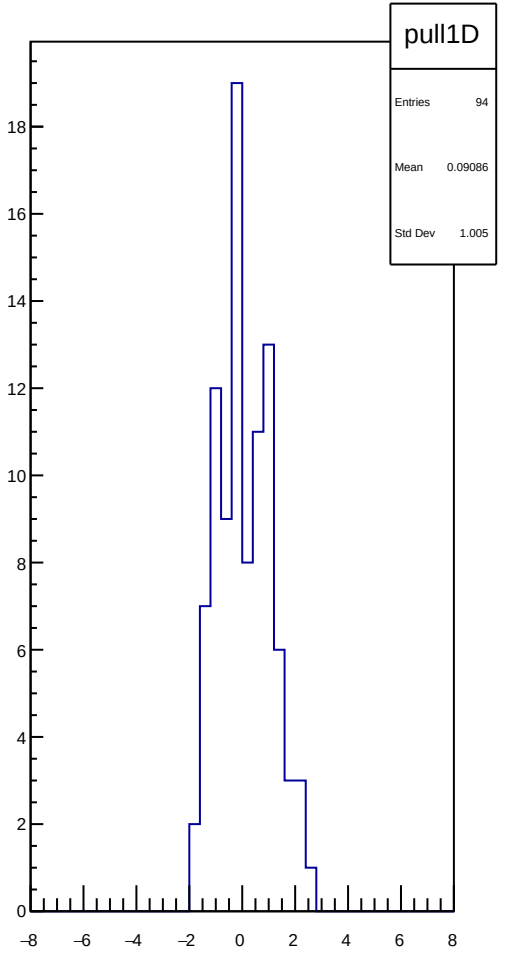

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4731 / 93
p0 4515 ± 3.374
6000
5500
5000
4500
4000

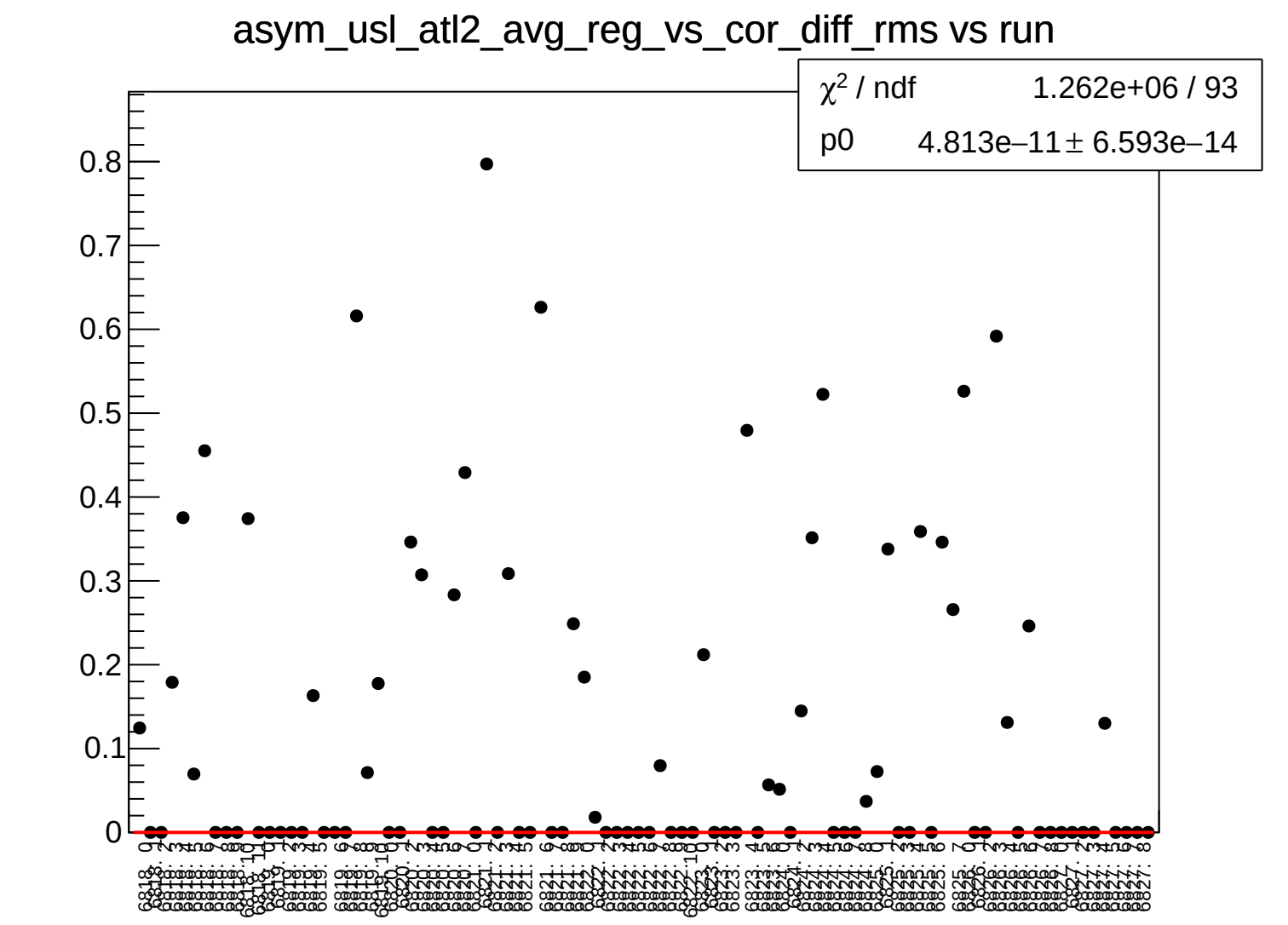

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 95.74 / 93
p0 −3526 ± 4802
pull
Entries 94
Mean 1238
Std Dev 0

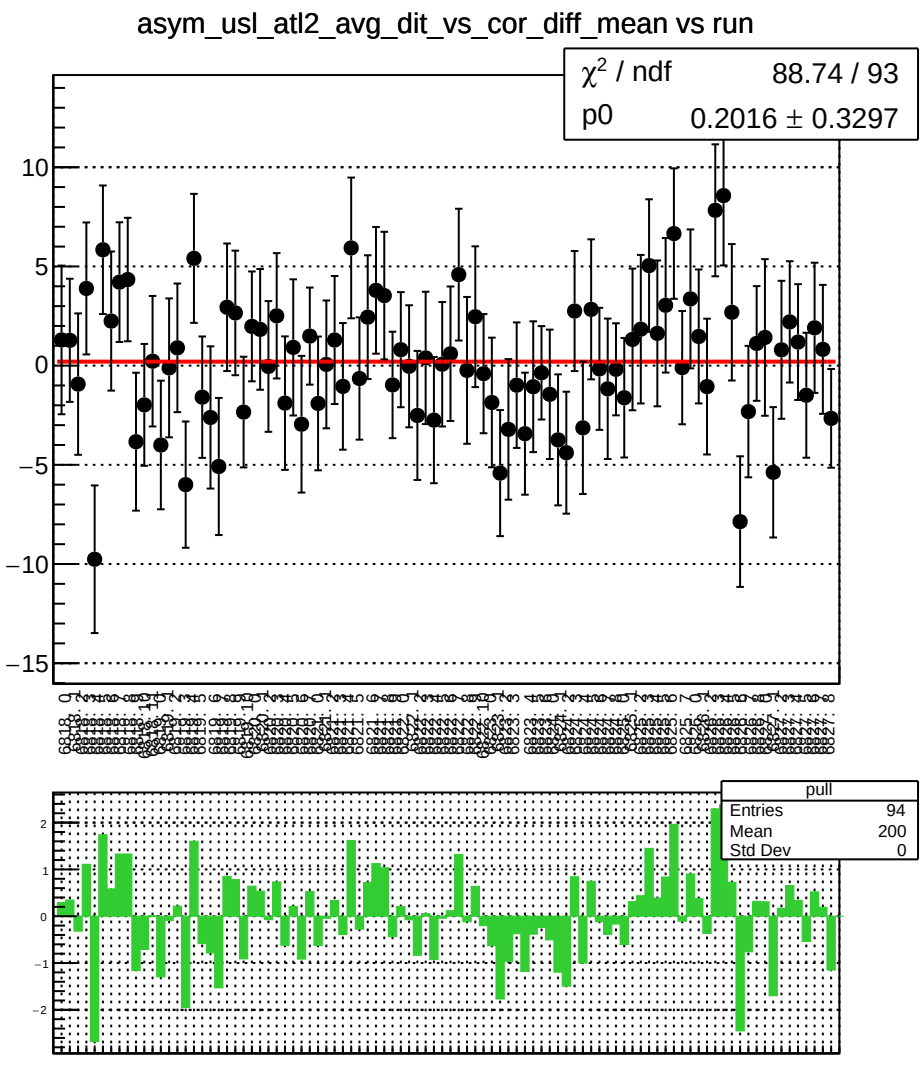

pull1D
Entries 94
Mean −0.0009811
Std Dev 1.009

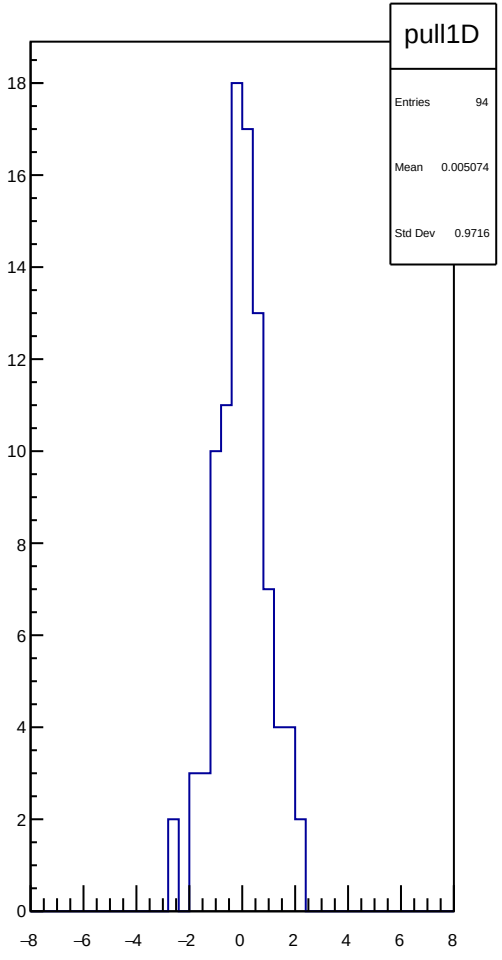

asym_usl_atl2_avg_rms vs run
χ² / ndf 3983 / 93
p0 4544 ± 3.395
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000

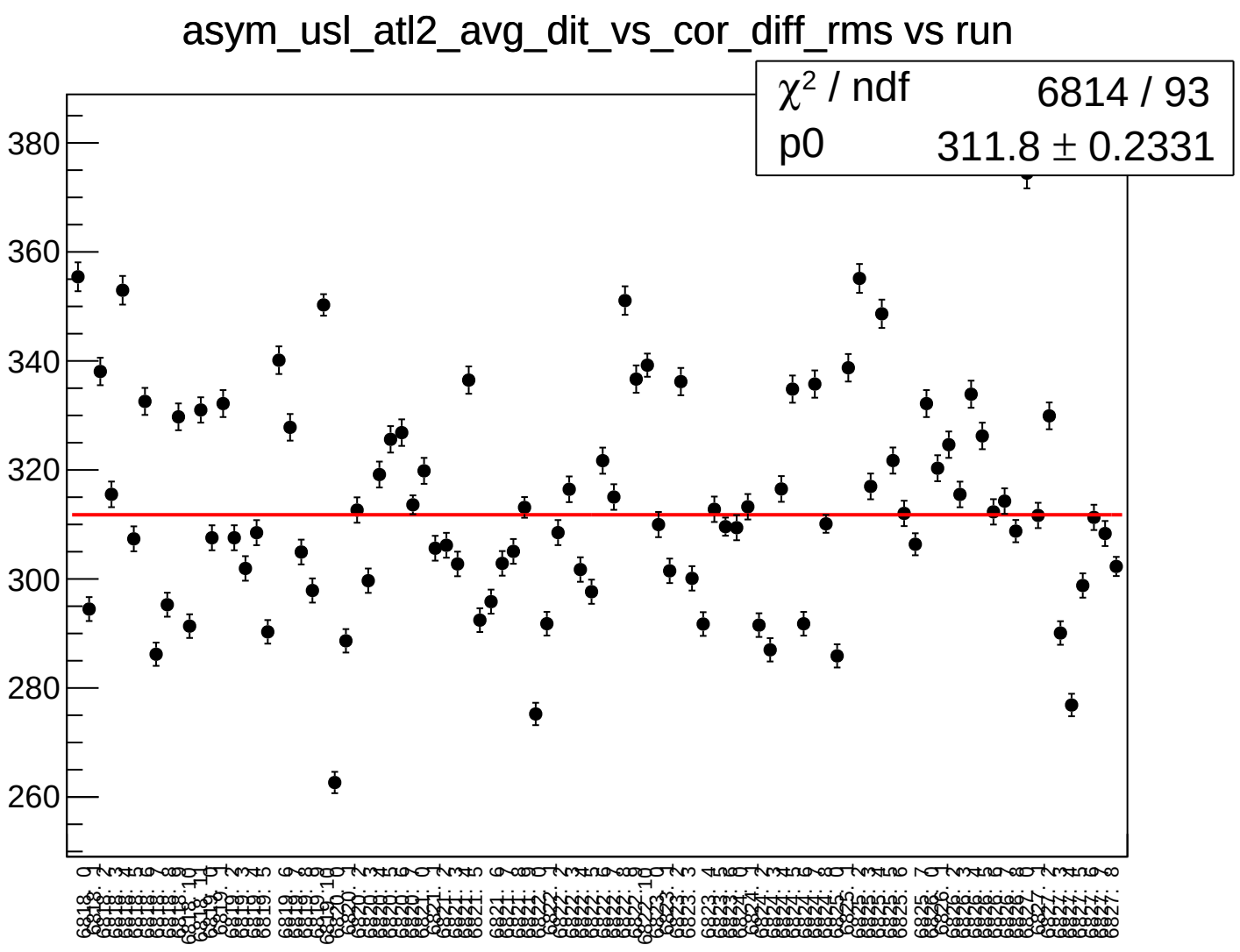

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.77 / 93
p0 6.078e−14 ± 9.324e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 78.93
Std Dev 29.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

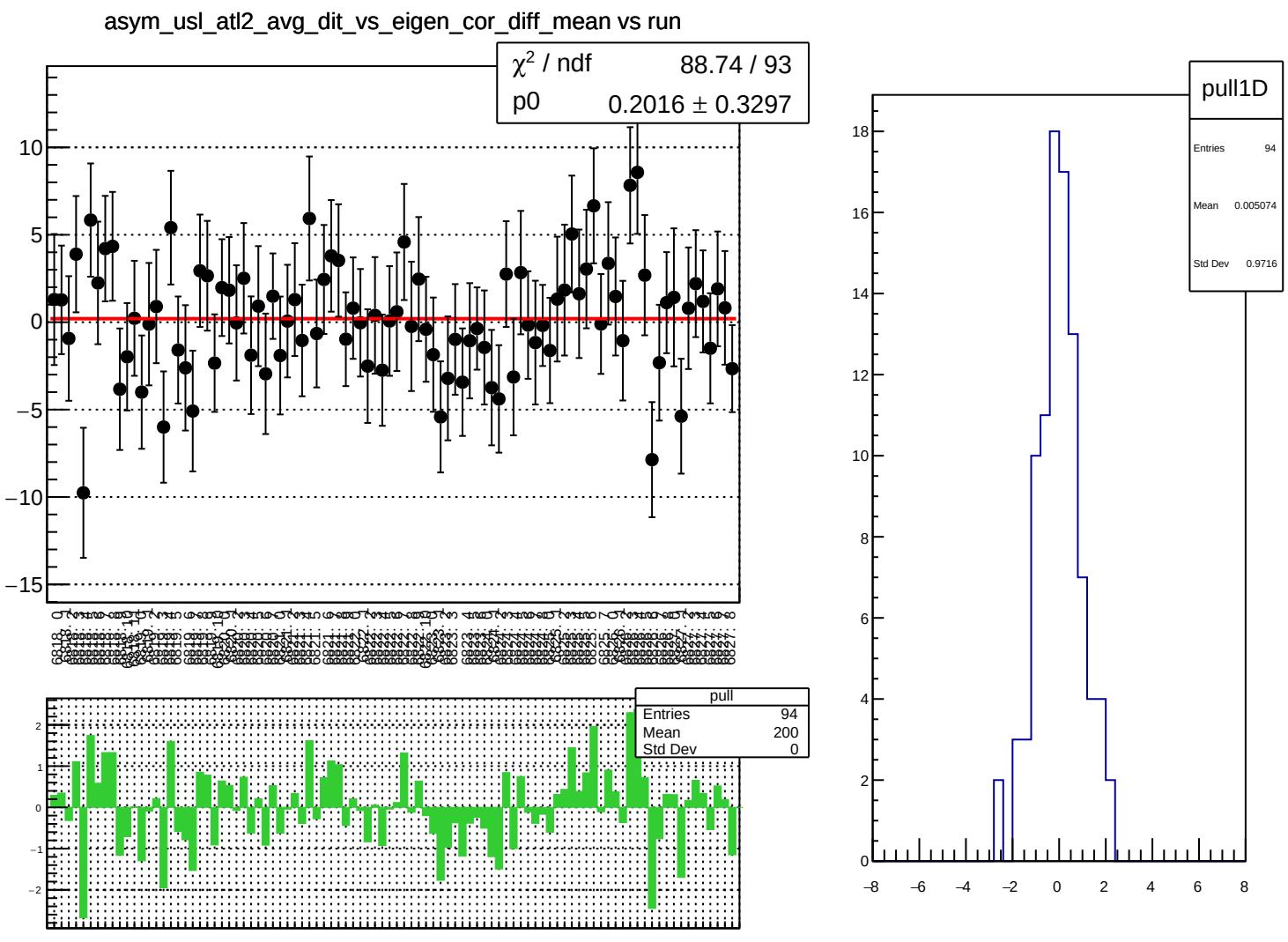

pull1D
Entries 94
Mean 0.09086
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

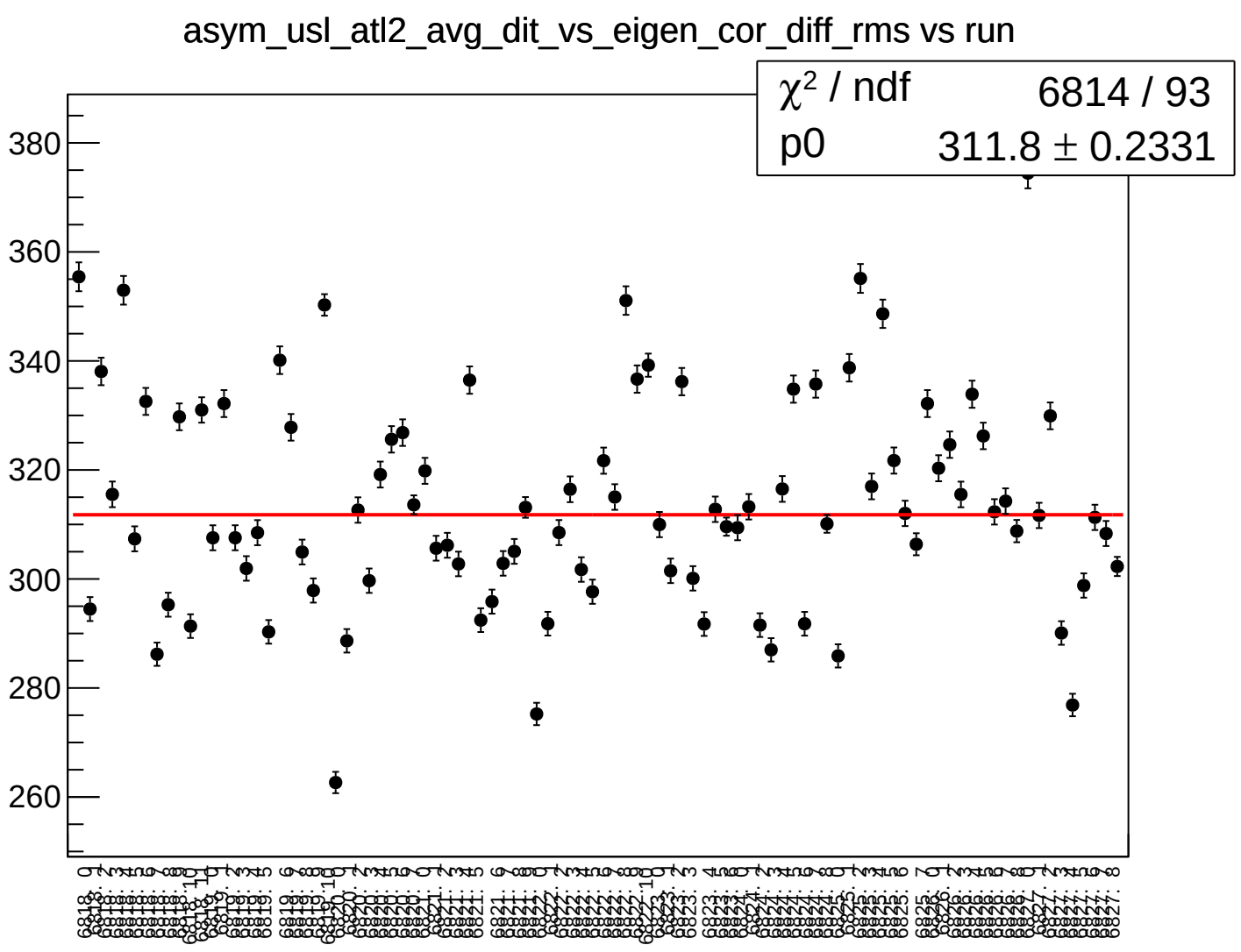

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.262e+06 / 93
p0 4.813e−11 ± 6.593e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

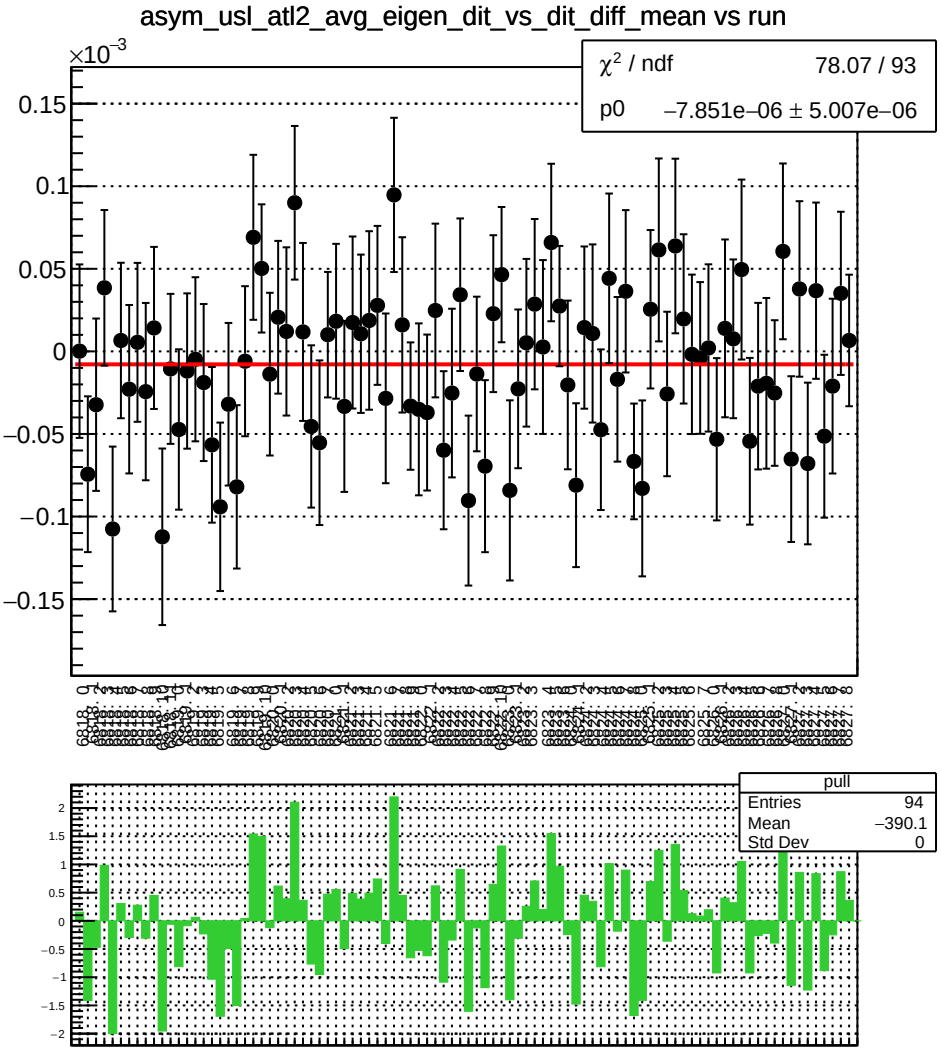

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.74 / 93
p0 0.2016 ± 0.3297
pull
Entries 94
Mean 200
Std Dev 0

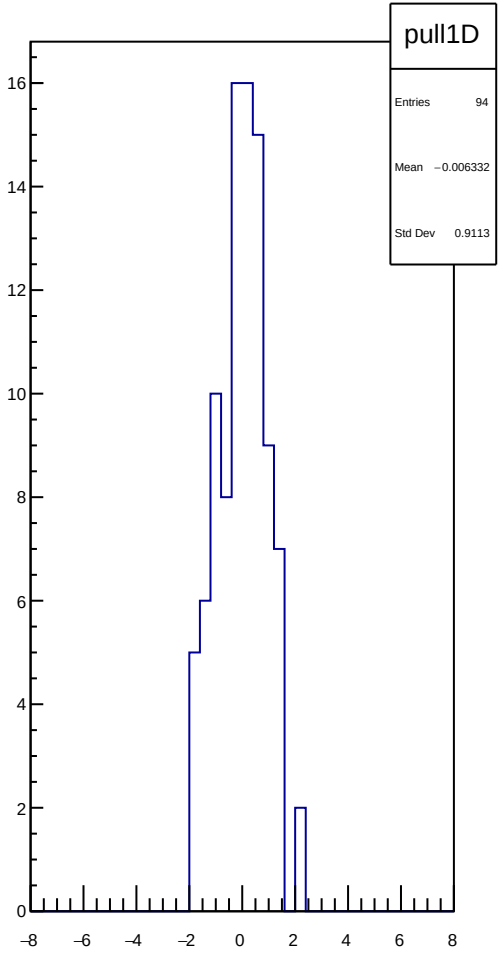

pull1D
Entries 94
Mean 0.005074
Std Dev 0.9716

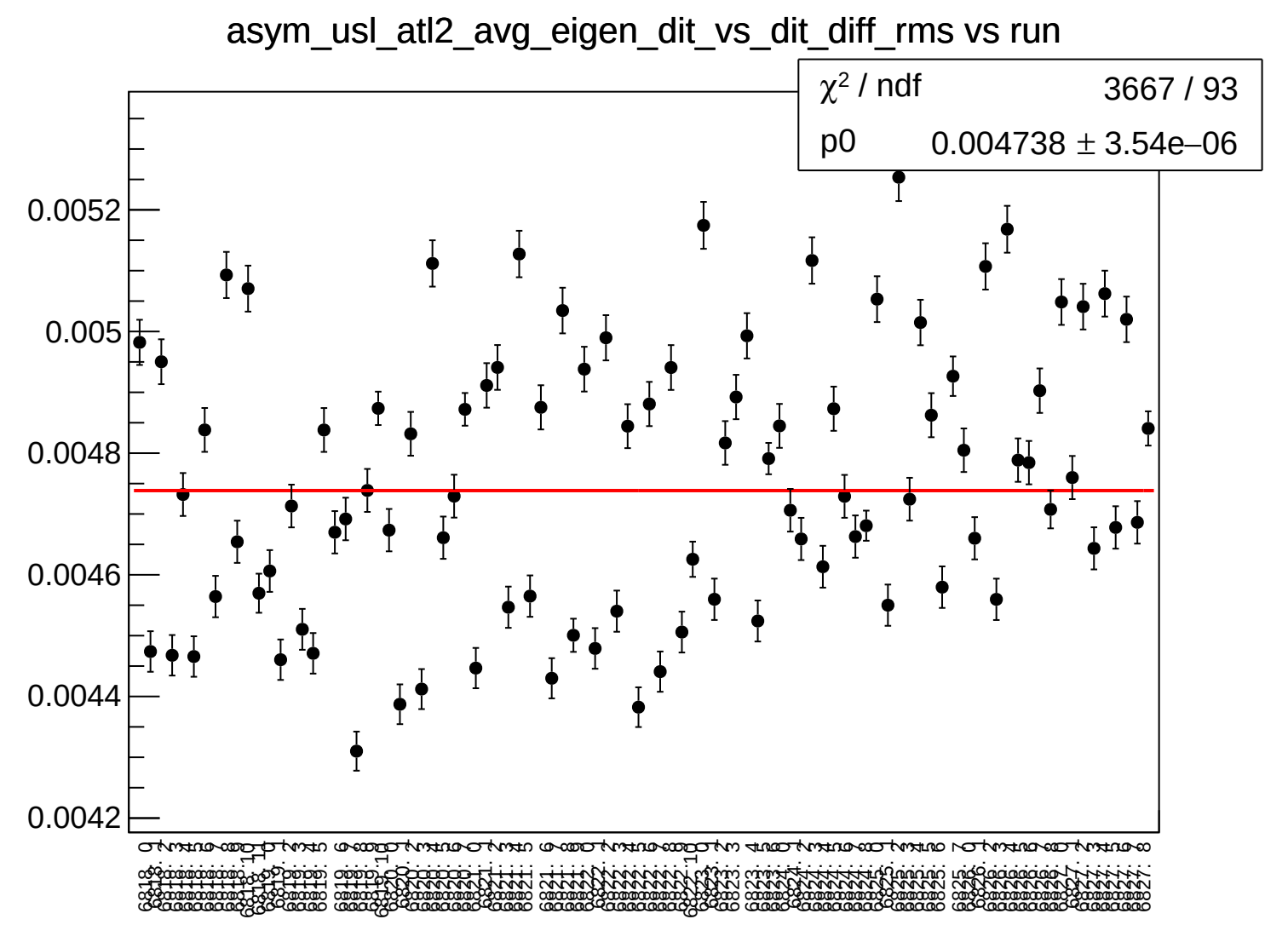

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6814 / 93
p0 311.8 ± 0.2331
380
360
340
320
300
280
260

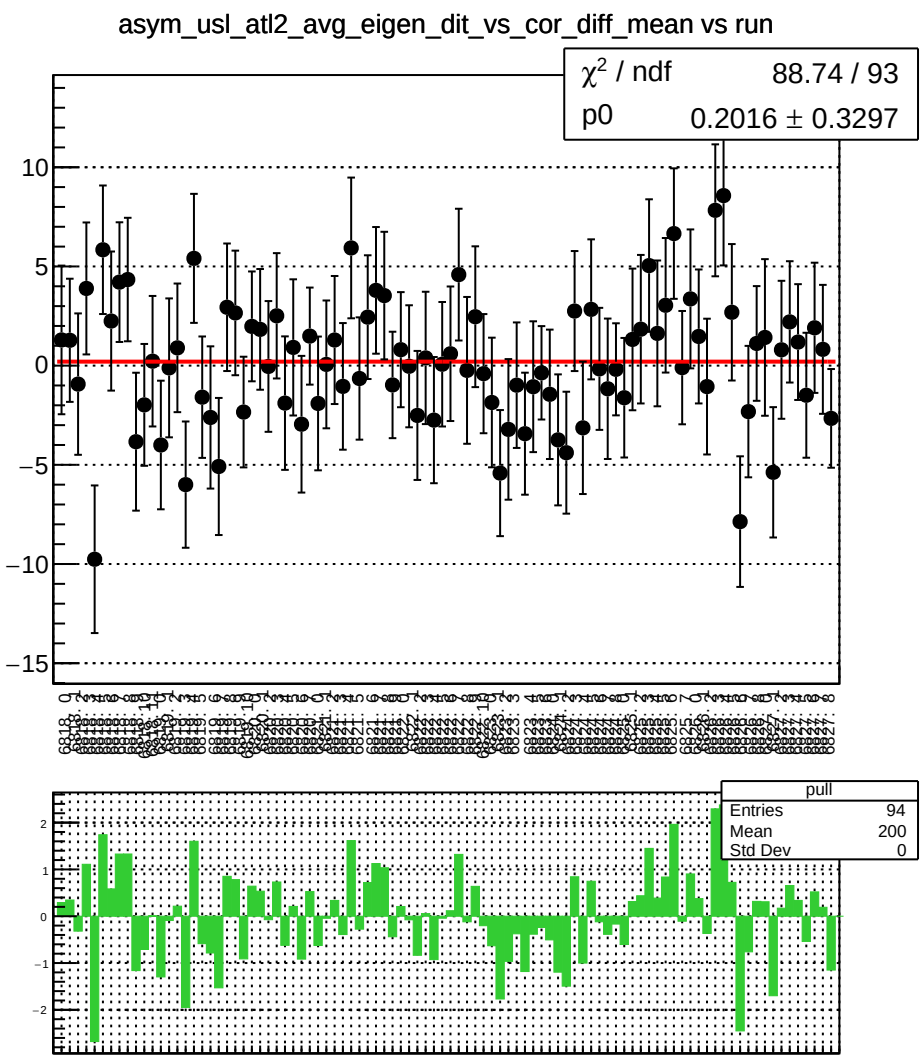

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.74 / 93
p0 0.2016 ± 0.3297
pull
Entries 94
Mean 200
Std Dev 0
pull1D
Entries 94
Mean 0.005074
Std Dev 0.9716

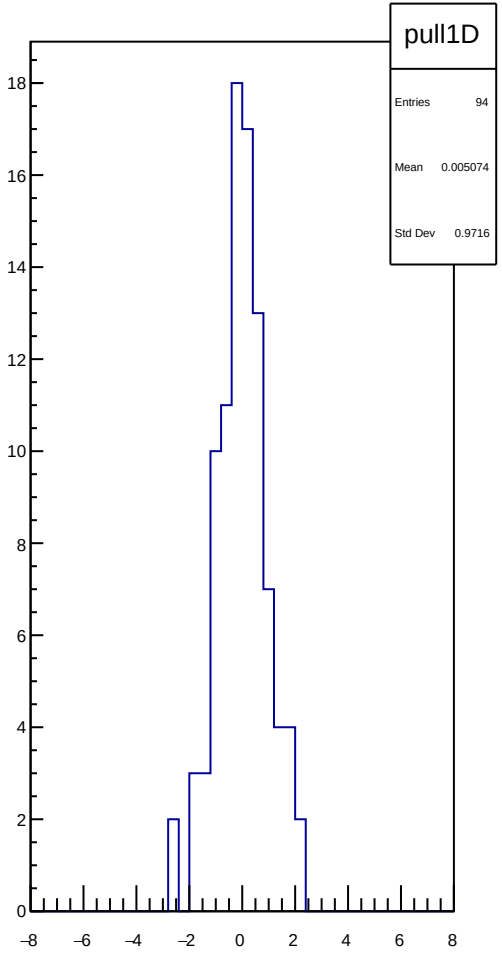

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6814 / 93
p0 311.8 ± 0.2331
380
360
340
320
300
280
260

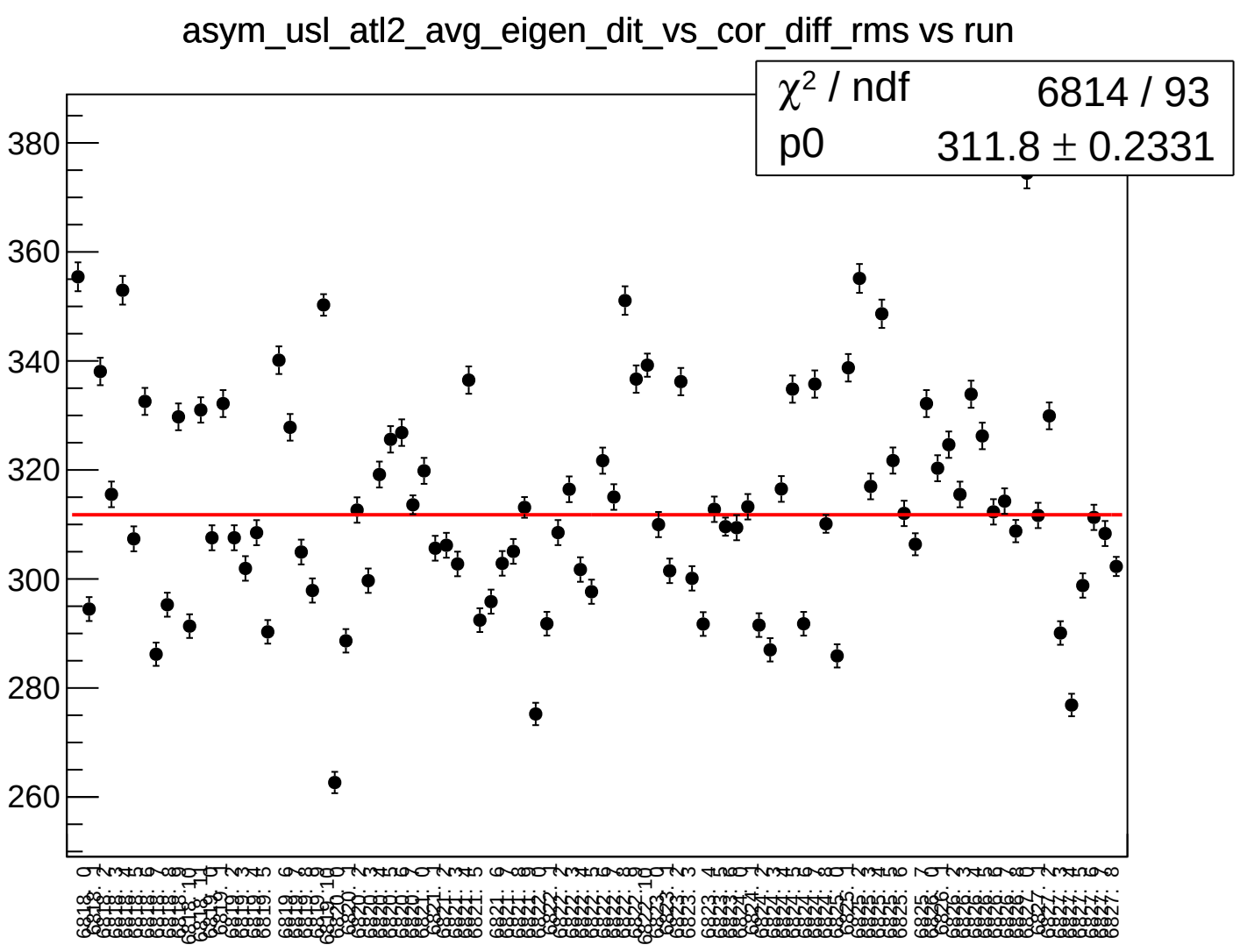

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.07 / 93
p0 −7.851e−06 ± 5.007e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −390.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

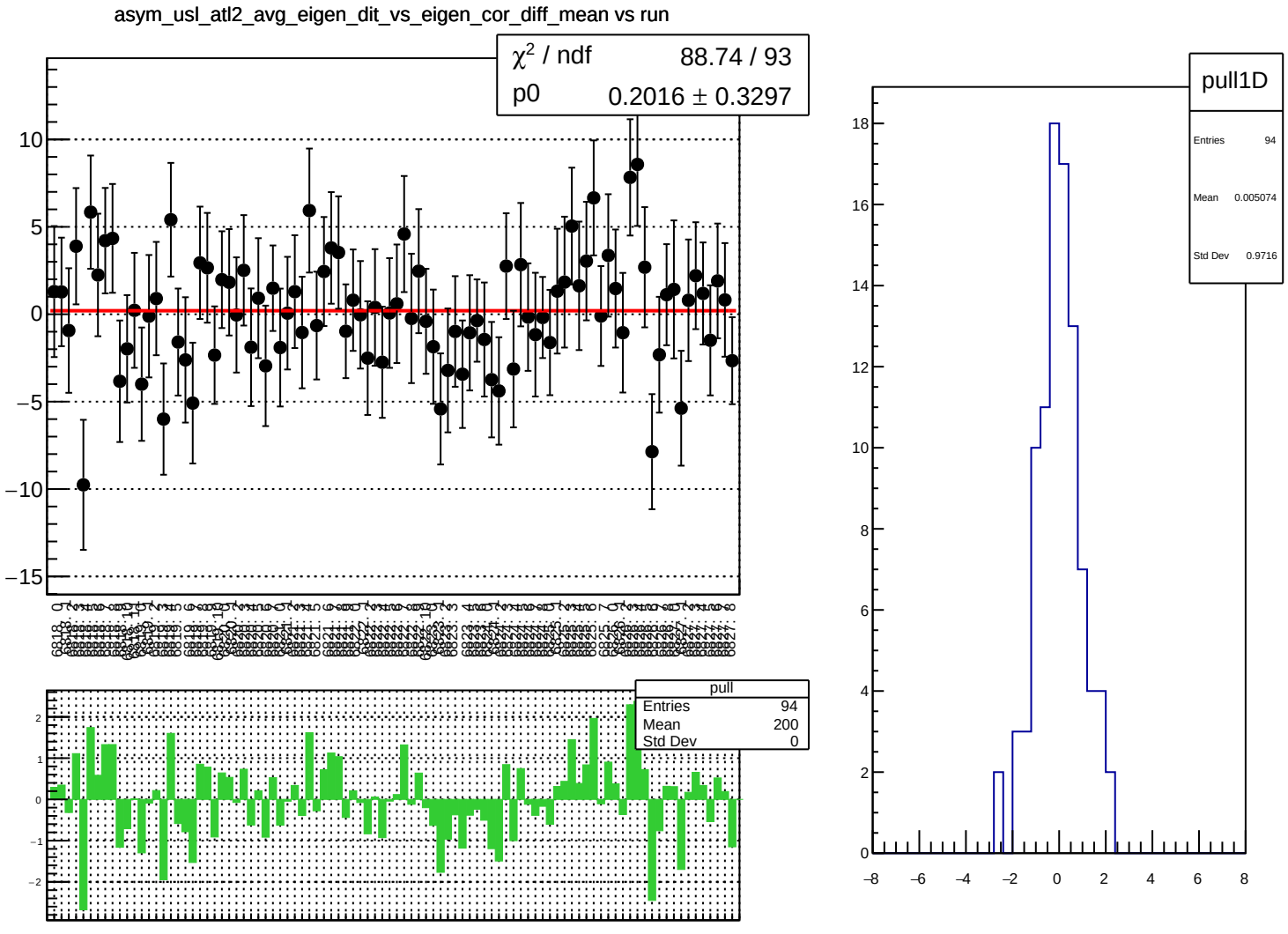

pull1D
Entries 94
Mean −0.006332
Std Dev 0.9113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

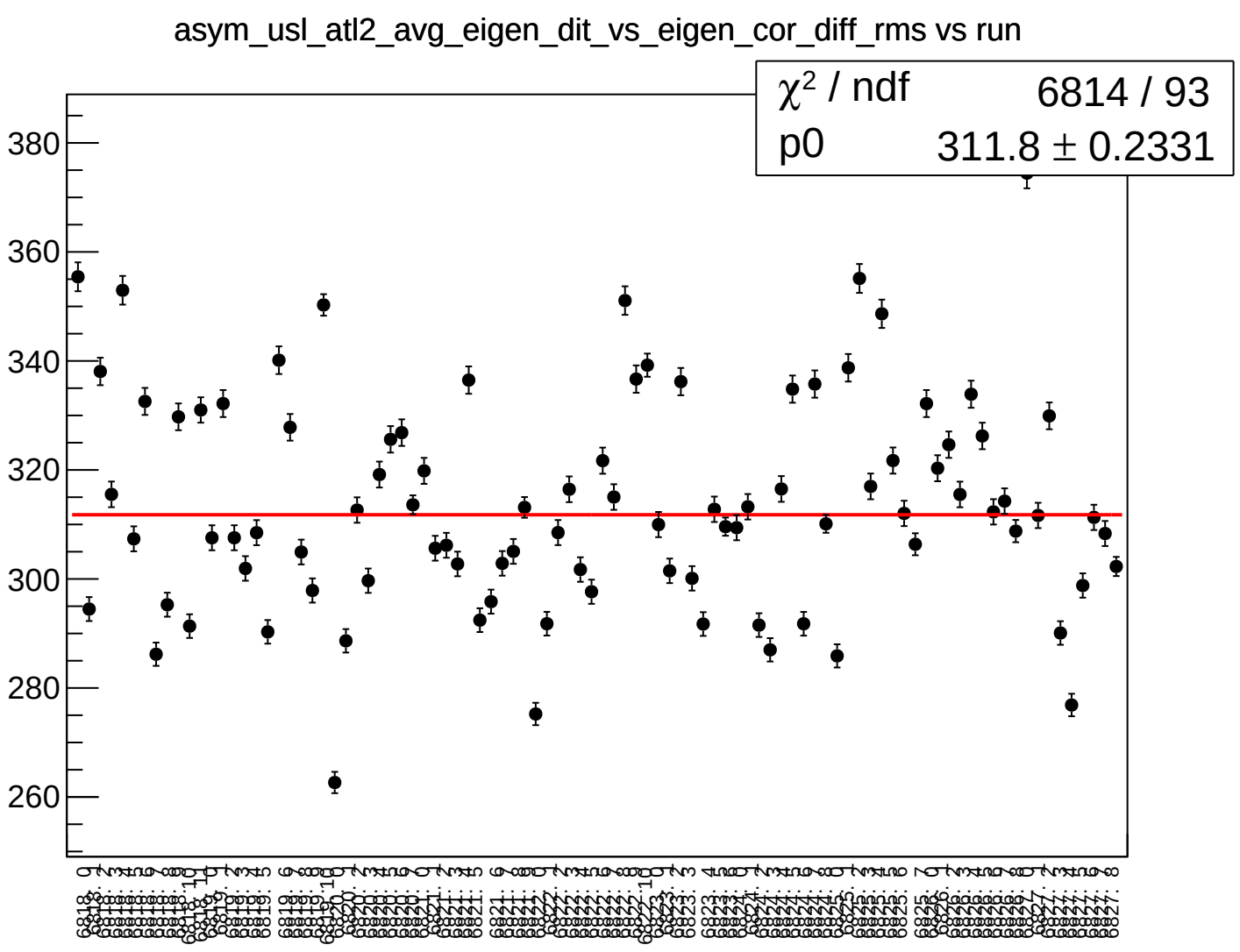

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3667 / 93
p0 0.004738 ± 3.54e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

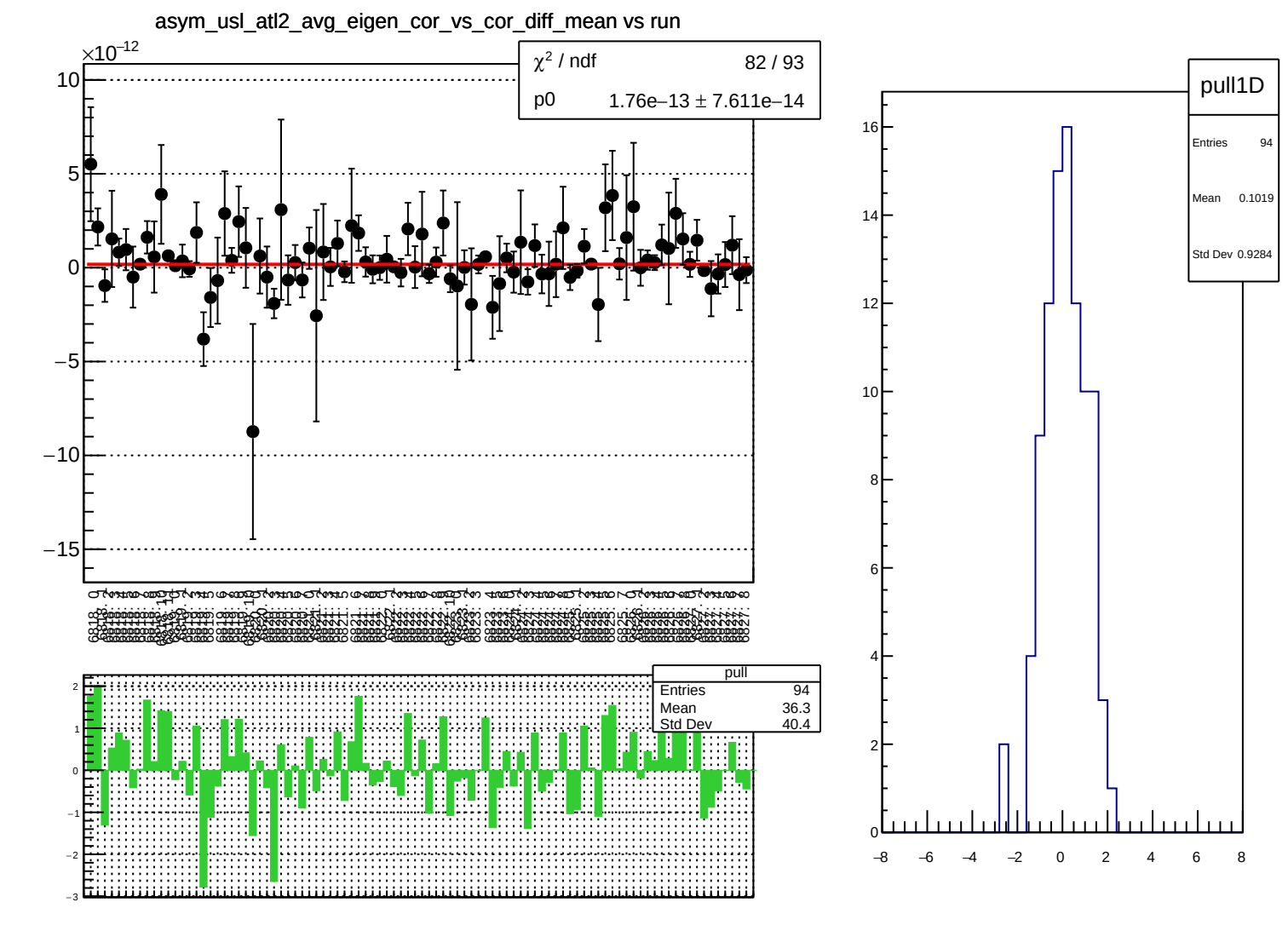

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.74 / 93
p0 0.2016 ± 0.3297
pull
Entries 94
Mean 200
Std Dev 0

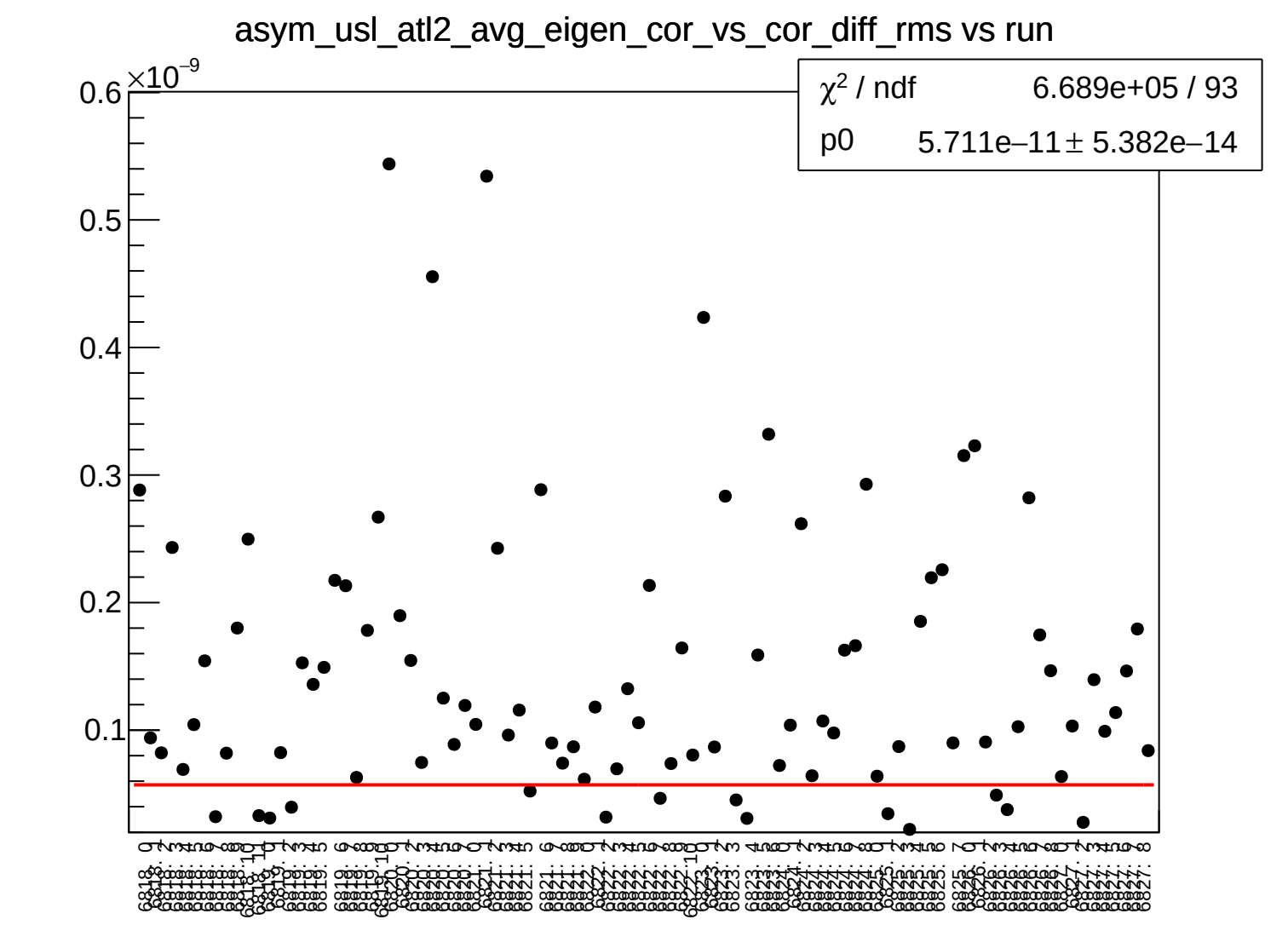

pull1D
Entries 94
Mean 0.005074
Std Dev 0.9716

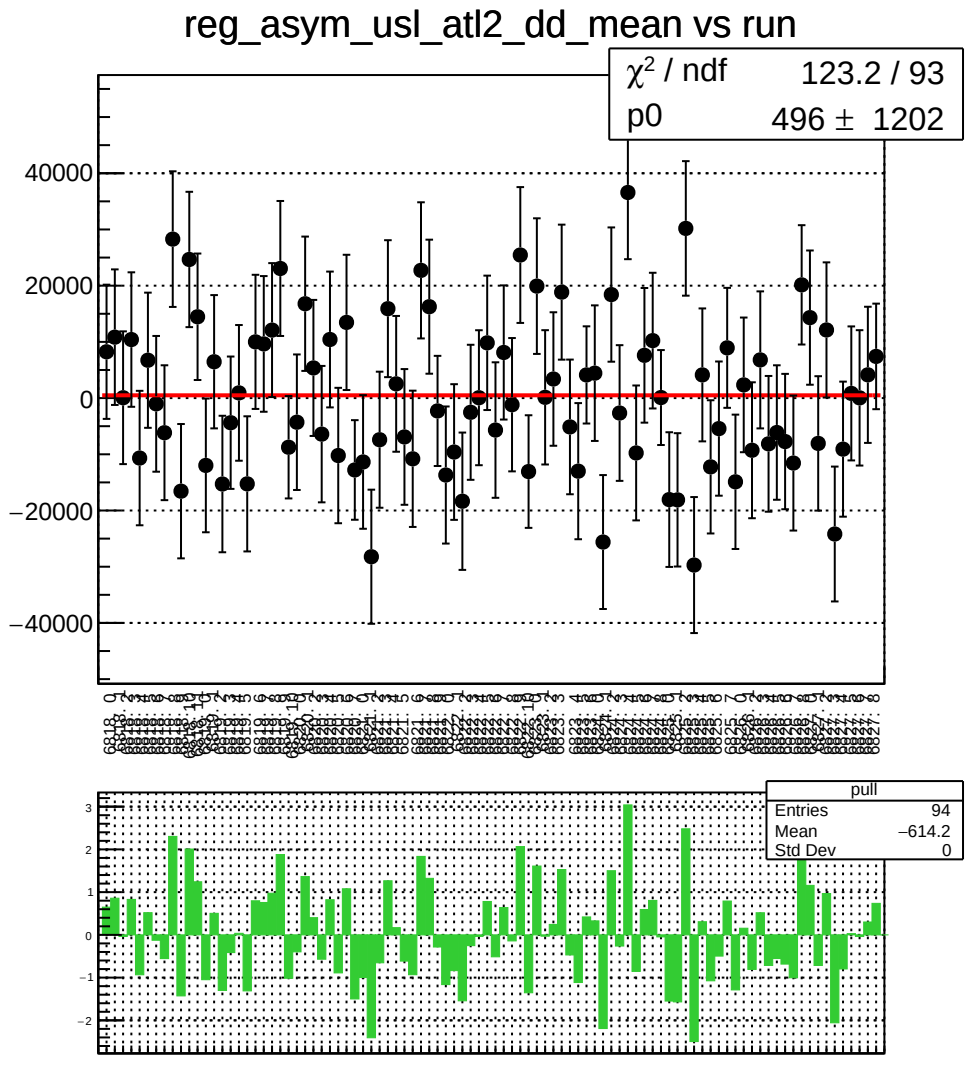

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6814 / 93
p0 311.8 ± 0.2331
380
360
340
320
300
280
260

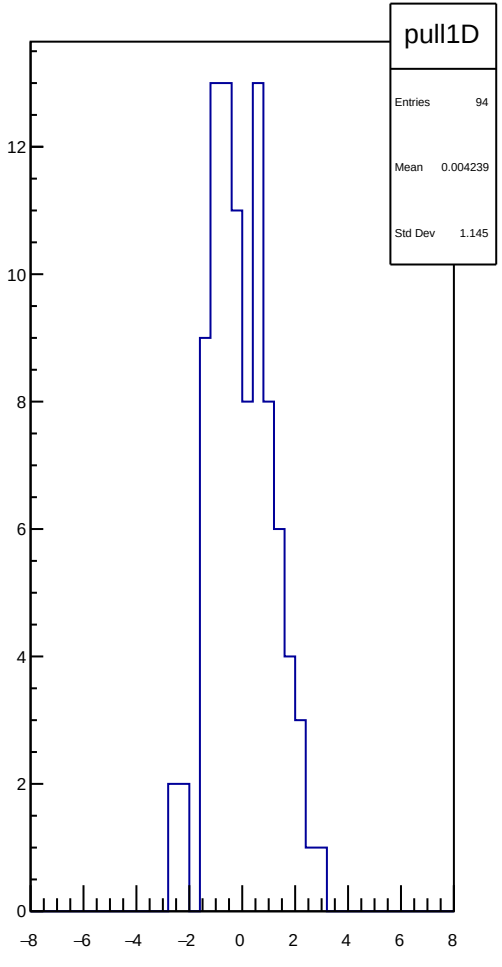

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.74 / 93
p0 0.2016 ± 0.3297
pull
Entries 94
Mean 200
Std Dev 0
pull1D
Entries 94
Mean 0.005074
Std Dev 0.9716

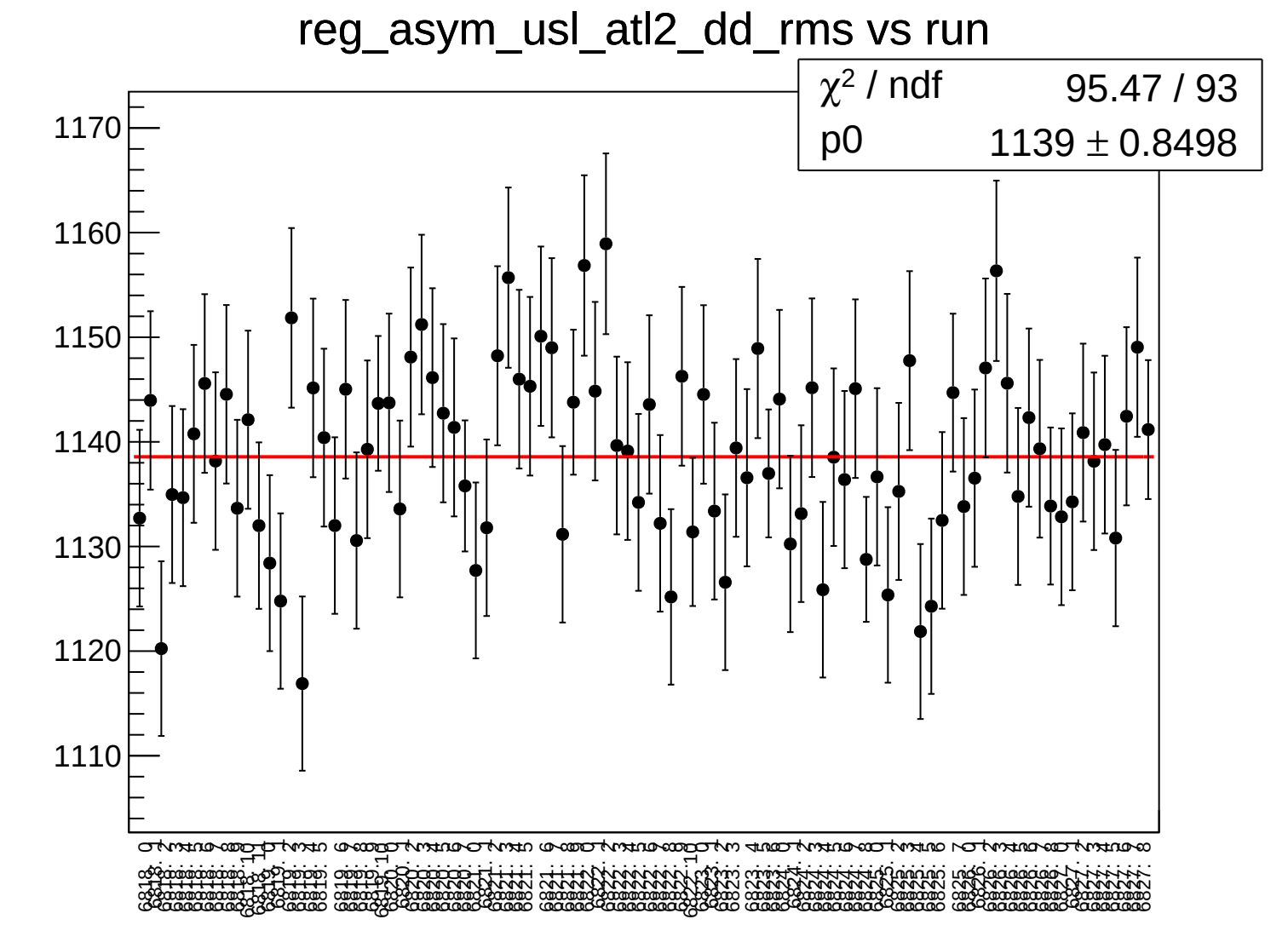

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6814 / 93
p0 311.8 ± 0.2331
380
360
340
320
300
280
260

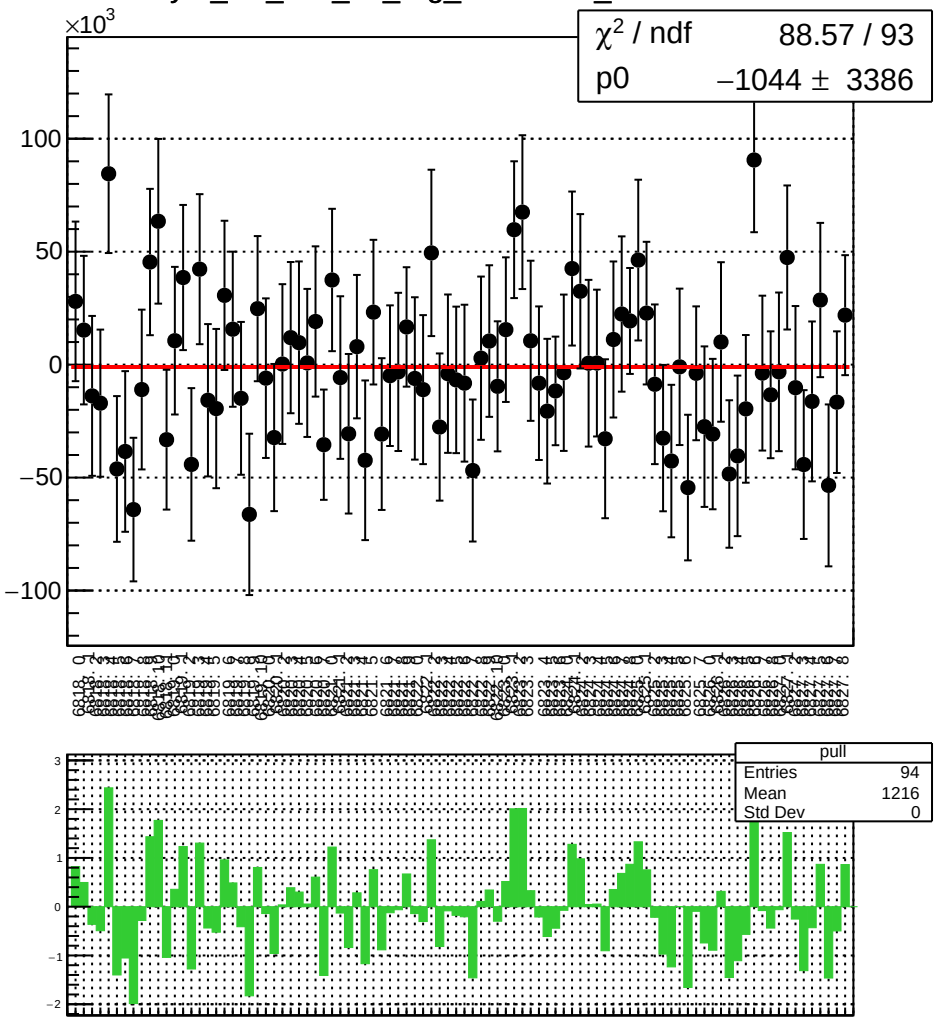

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82 / 93
p0 1.76e−13 ± 7.611e−14
pull
Entries 94
Mean 36.3
Std Dev 40.4
pull1D
Entries 94
Mean 0.1019
Std Dev 0.9284

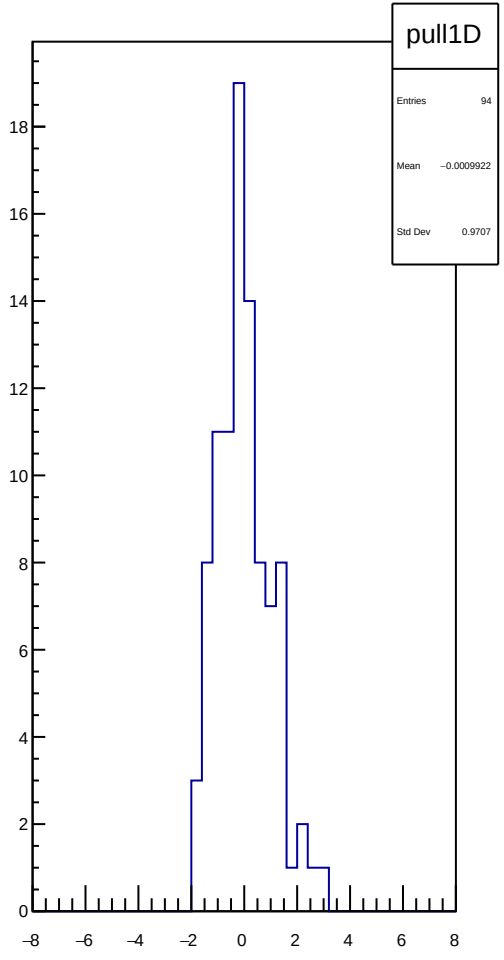

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.689e+05 / 93
p0 5.711e−11 ± 5.382e−14

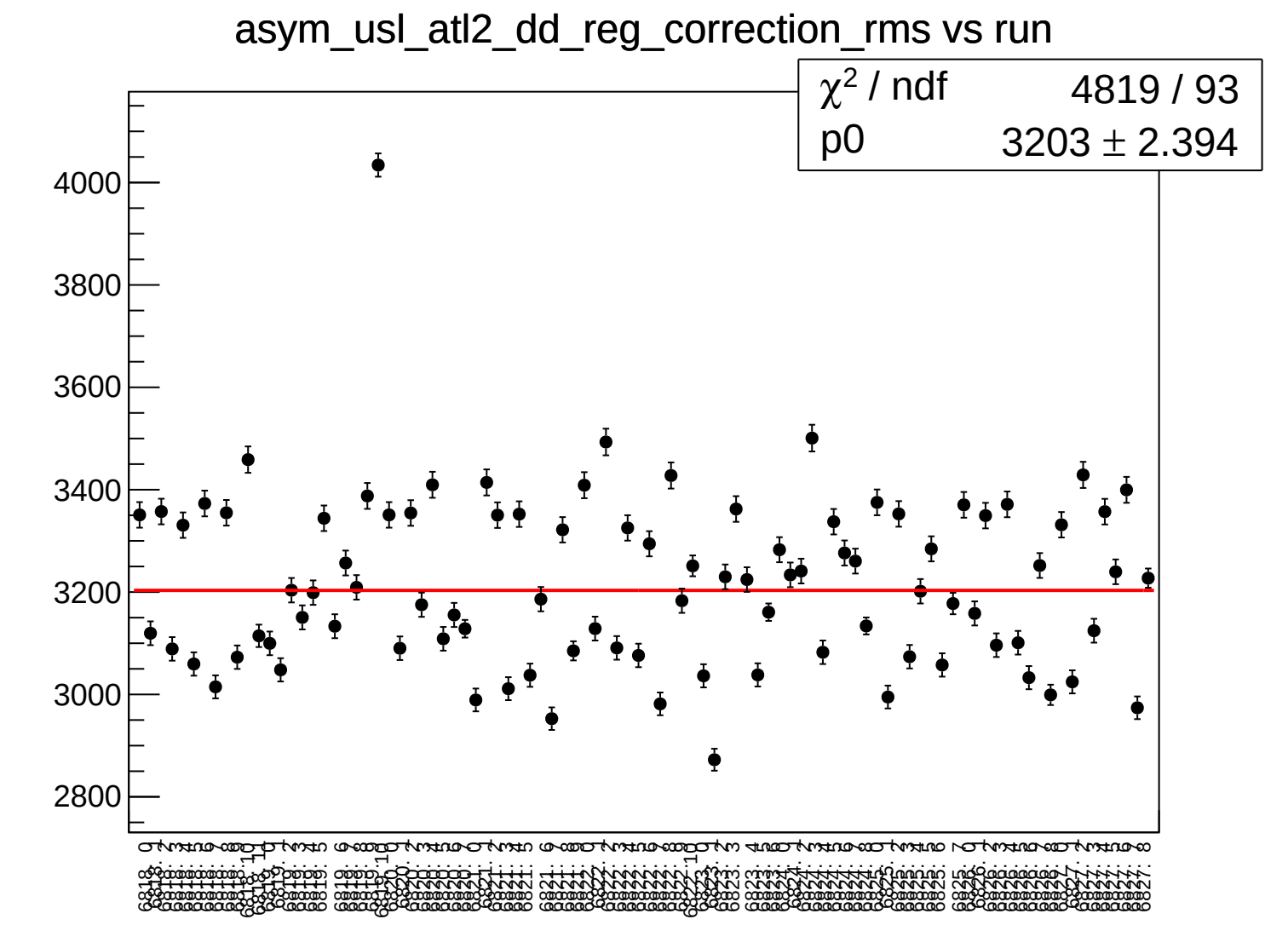

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 123.2 / 93
p0 496 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −614.2
Std Dev 0
3
2
1
0
−1
−2

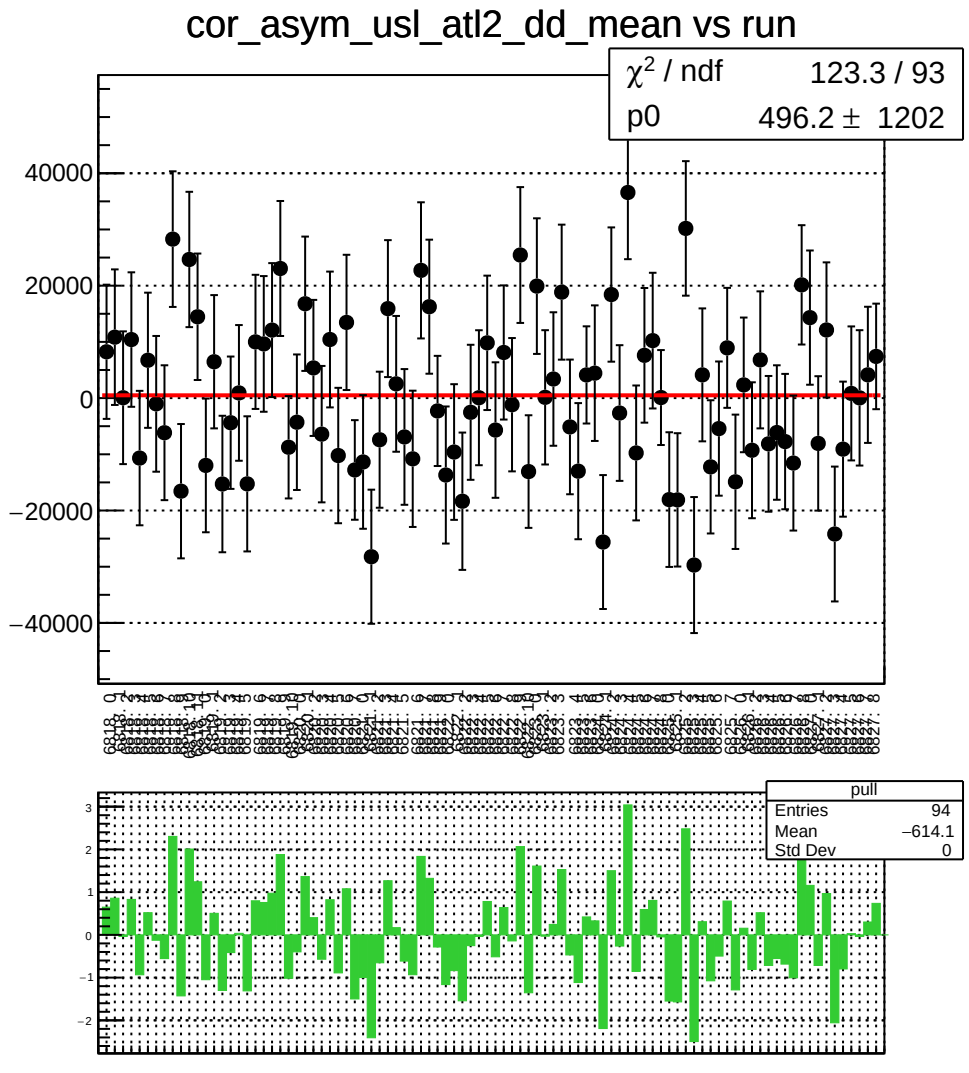

pull1D
Entries 94
Mean 0.004239
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

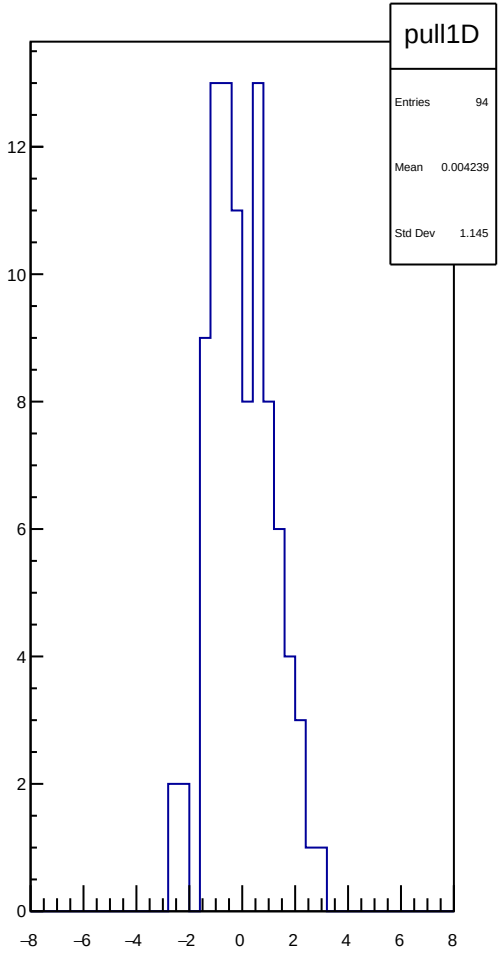

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 95.47 / 93
p0 1139 ± 0.8498
1170
1160
1150
1140
1130
1120
1110

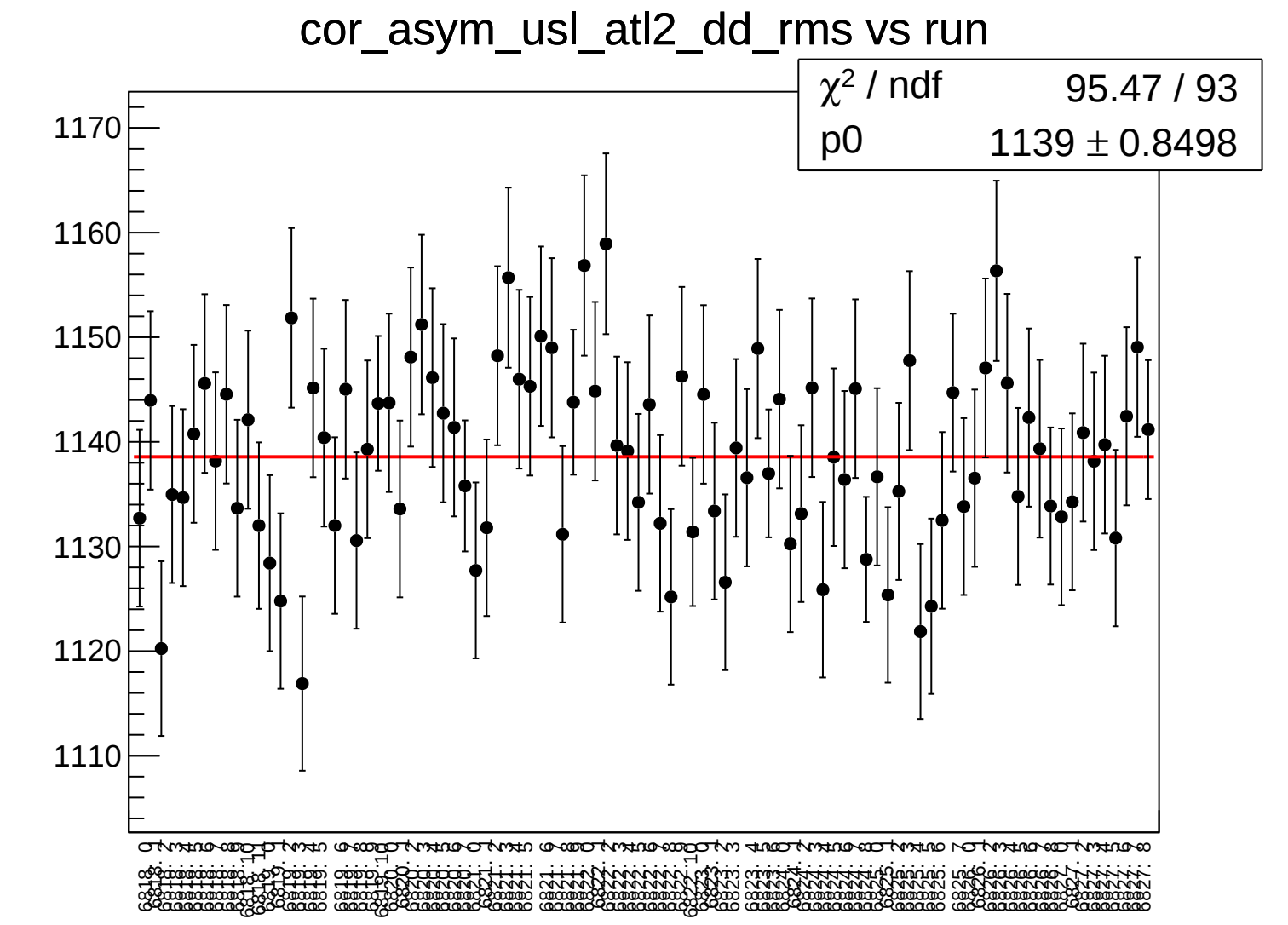

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.57 / 93
p0 −1044 ± 3386
100
50
0
−50
−100
pull
Entries 94
Mean 1216
Std Dev 0
3
2
1
0
−1
−2

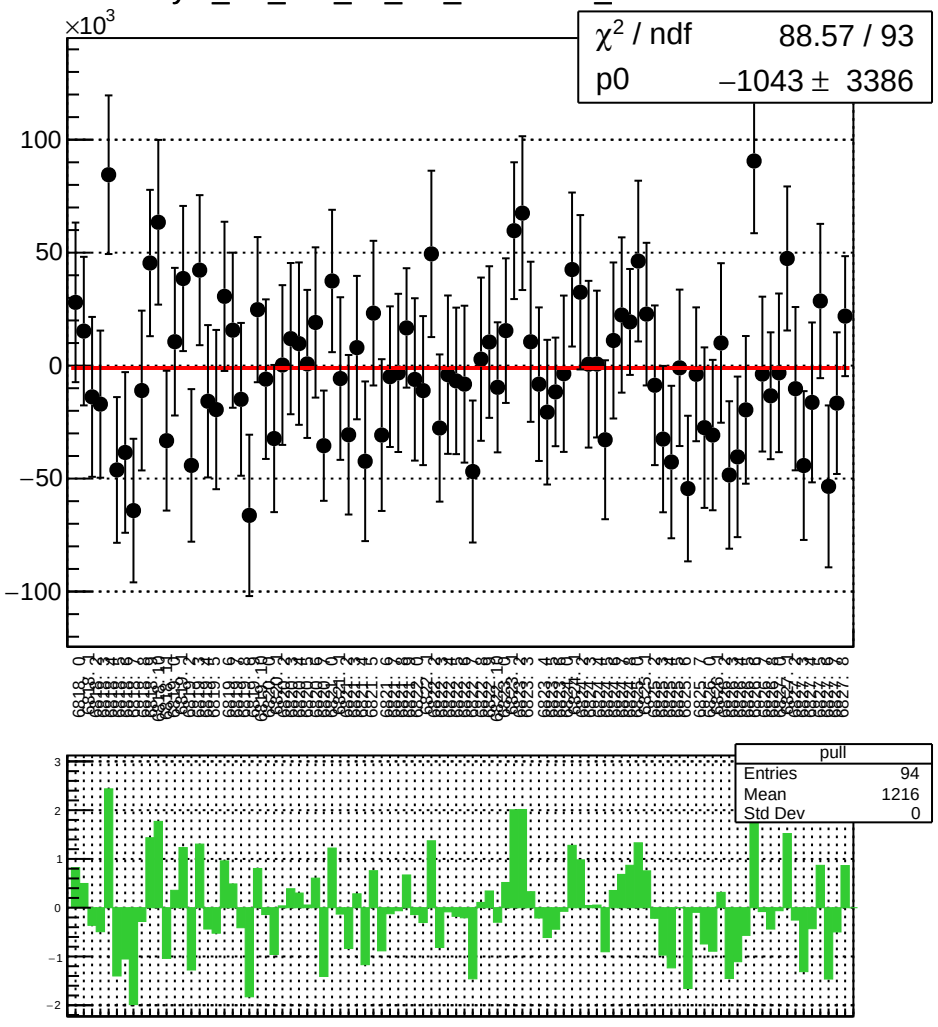

pull1D
Entries 94
Mean −0.0009922
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

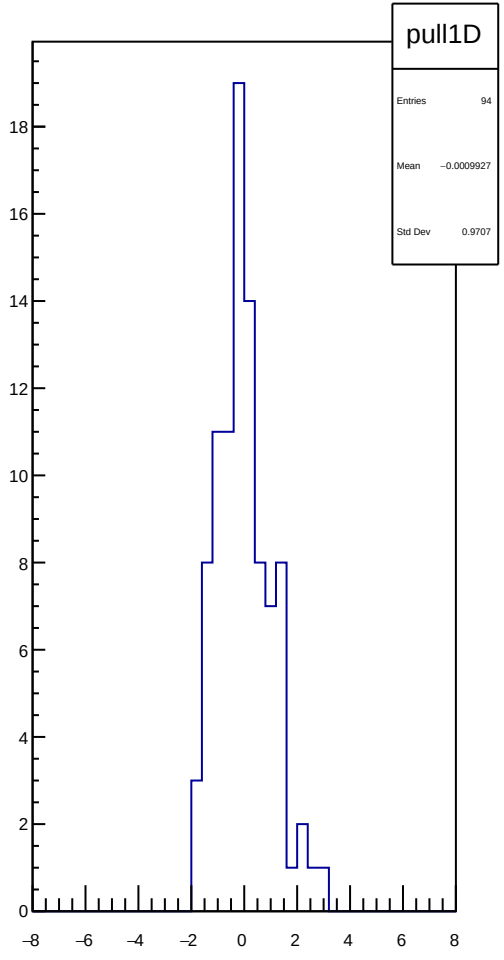

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4819 / 93
p0 3203 ± 2.394
4000
3800
3600
3400
3200
3000
2800


cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 123.3 / 93
p0 496.2 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −614.1
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.004239
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 95.47 / 93
p0 1139 ± 0.8498
1170
1160
1150
1140
1130
1120
1110


asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.57 / 93
p0 −1043 ± 3386
100
50
0
−50
−100
pull
Entries 94
Mean 1216
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.0009927
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
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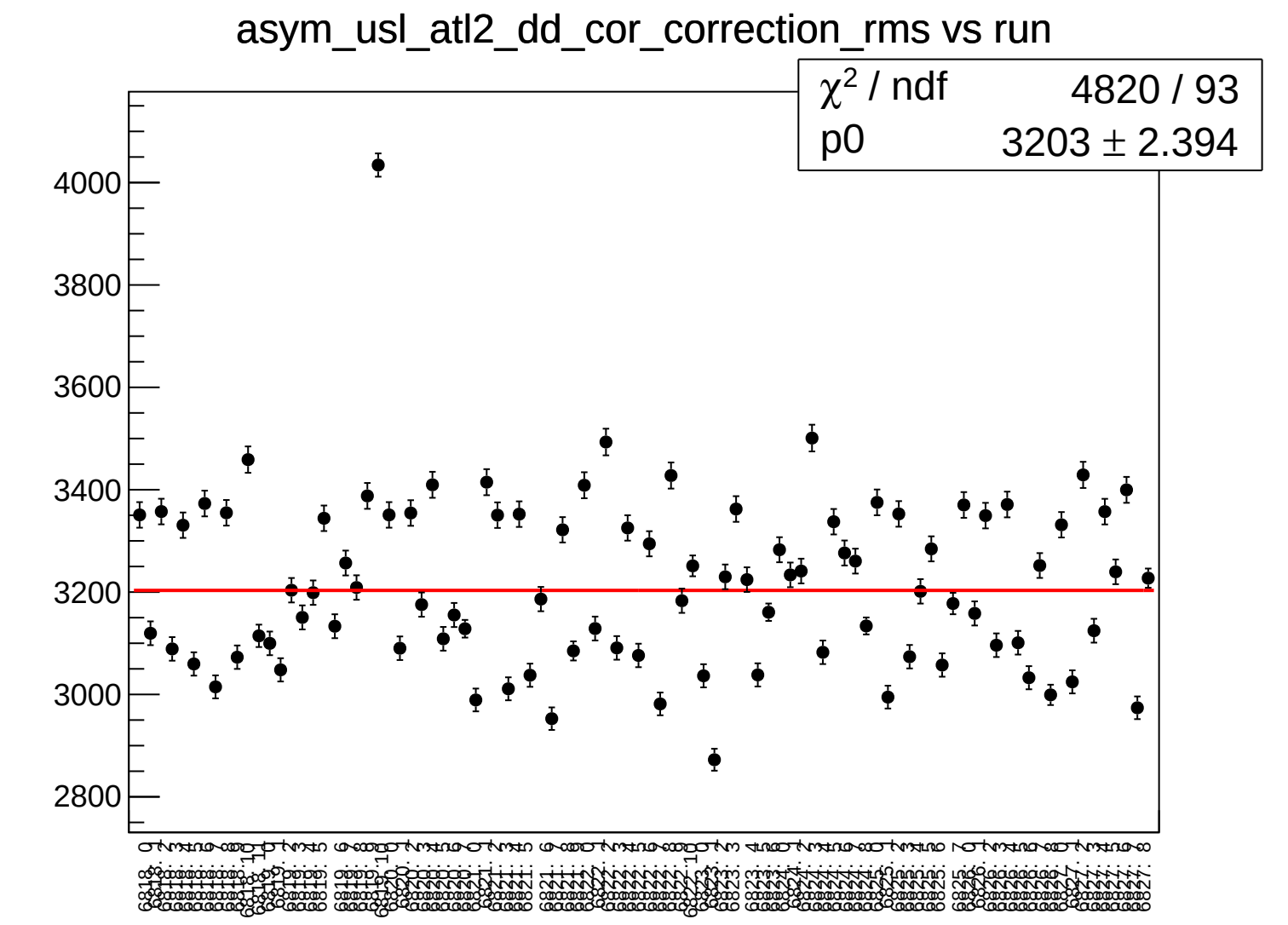
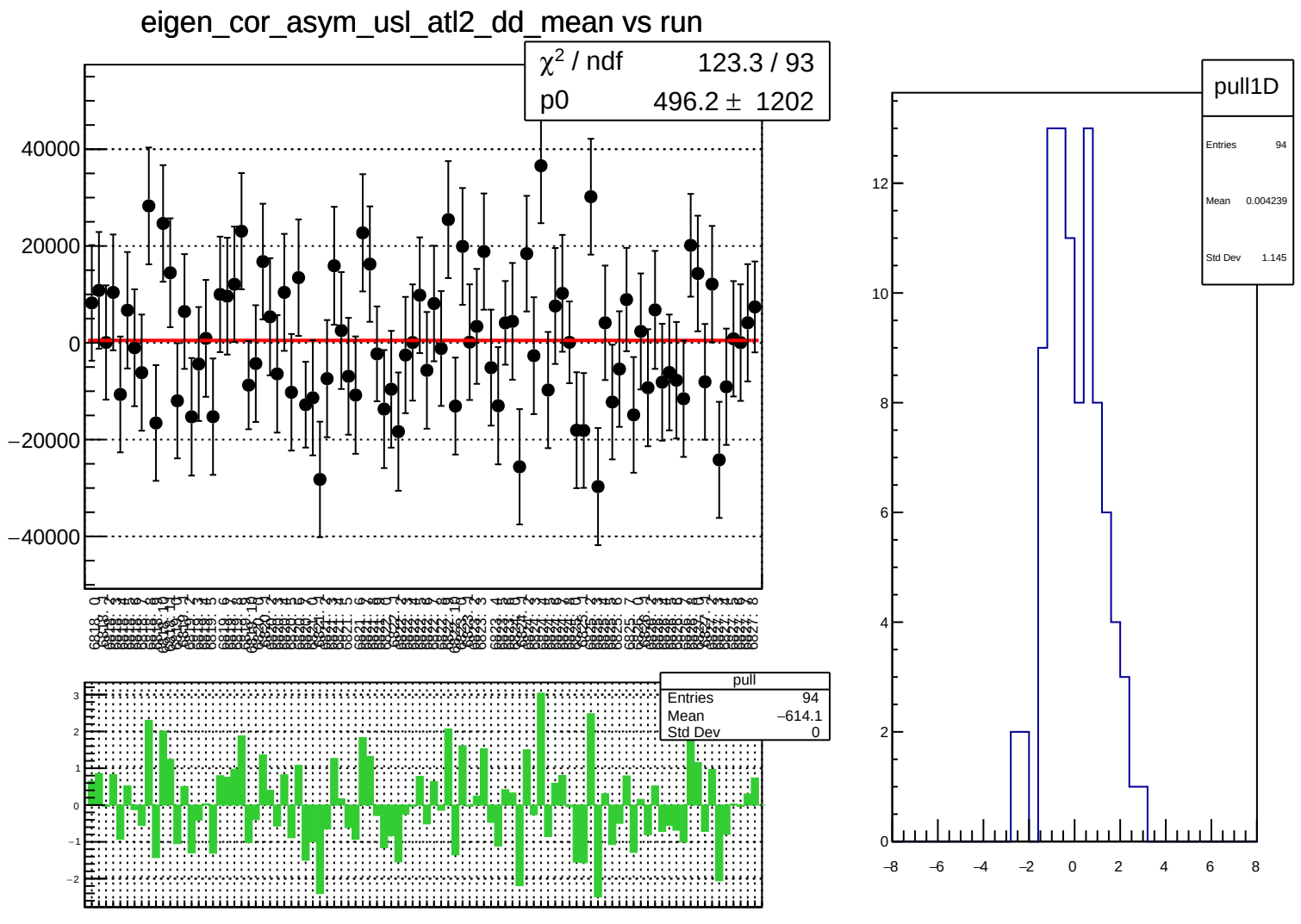
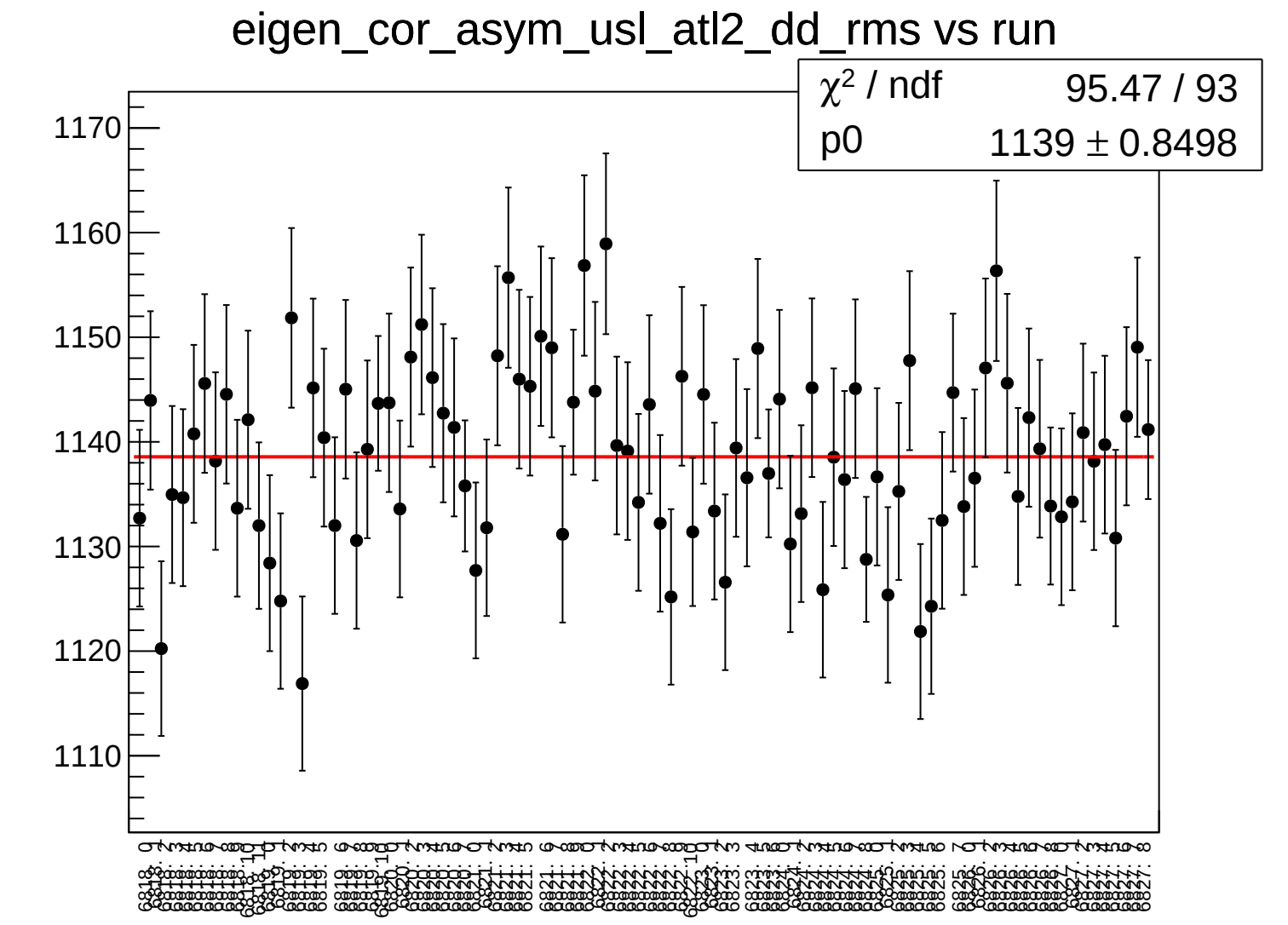
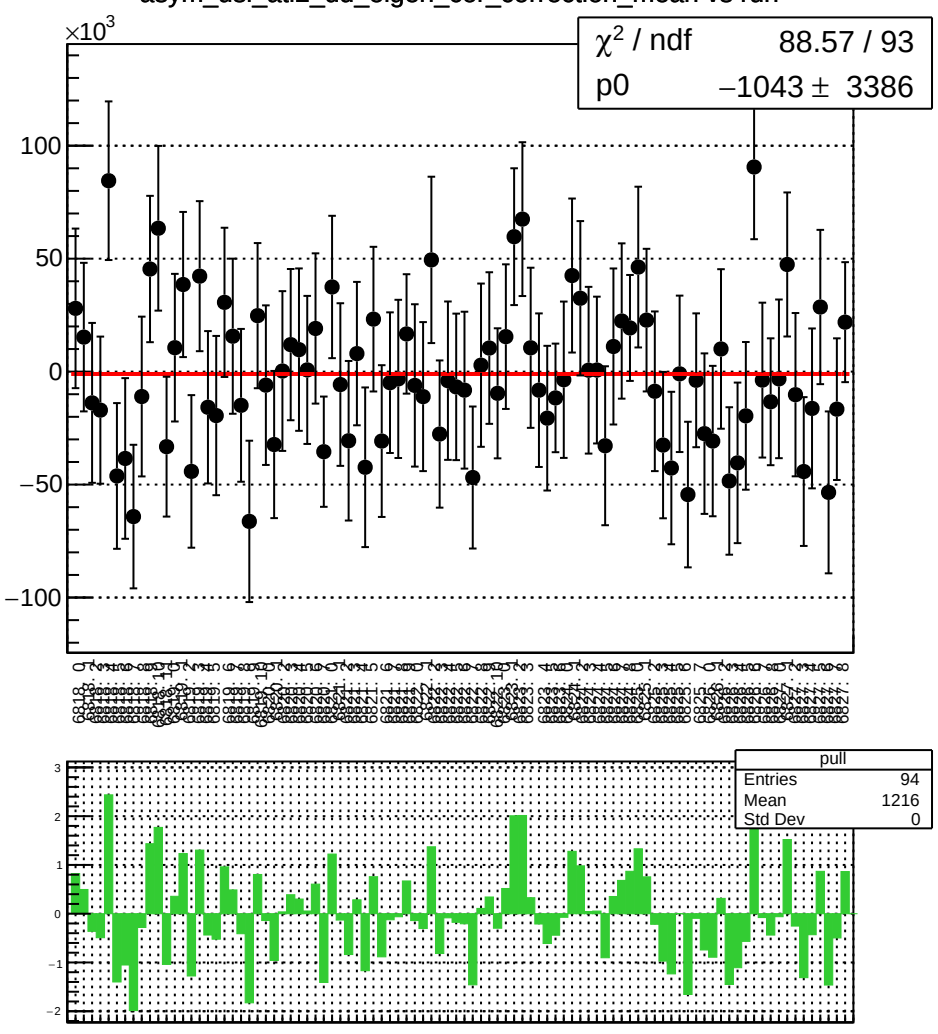
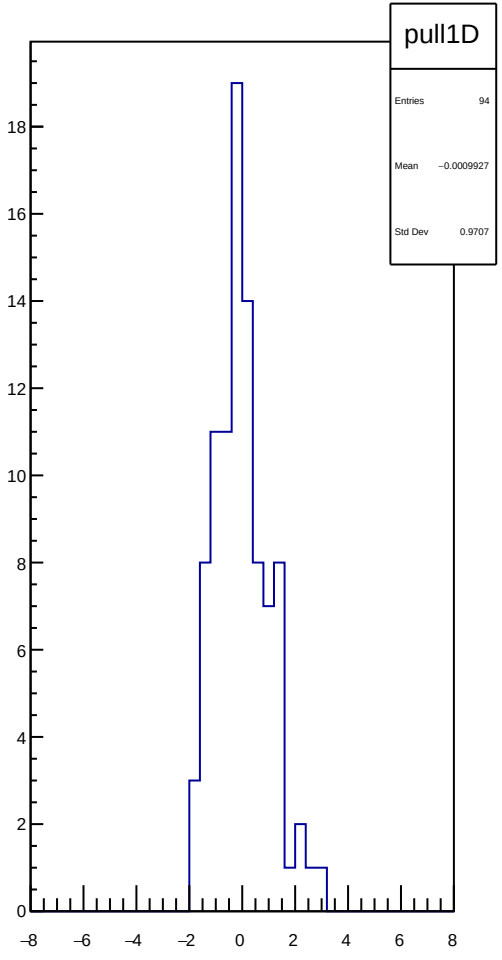
0
2
4
6
8

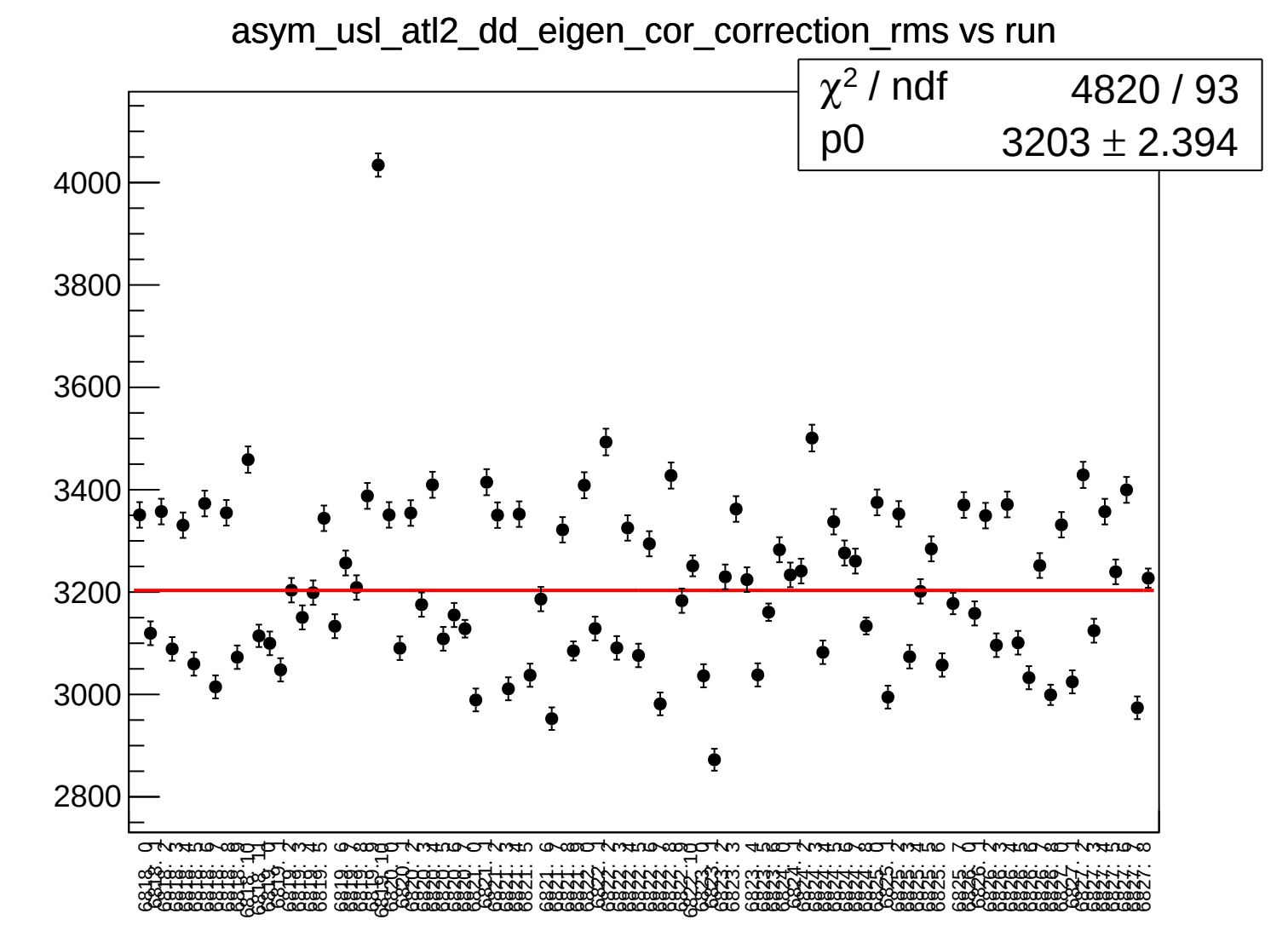

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4820 / 93
p0 3203 ± 2.394
4000
3800
3600
3400
3200
3000
2800

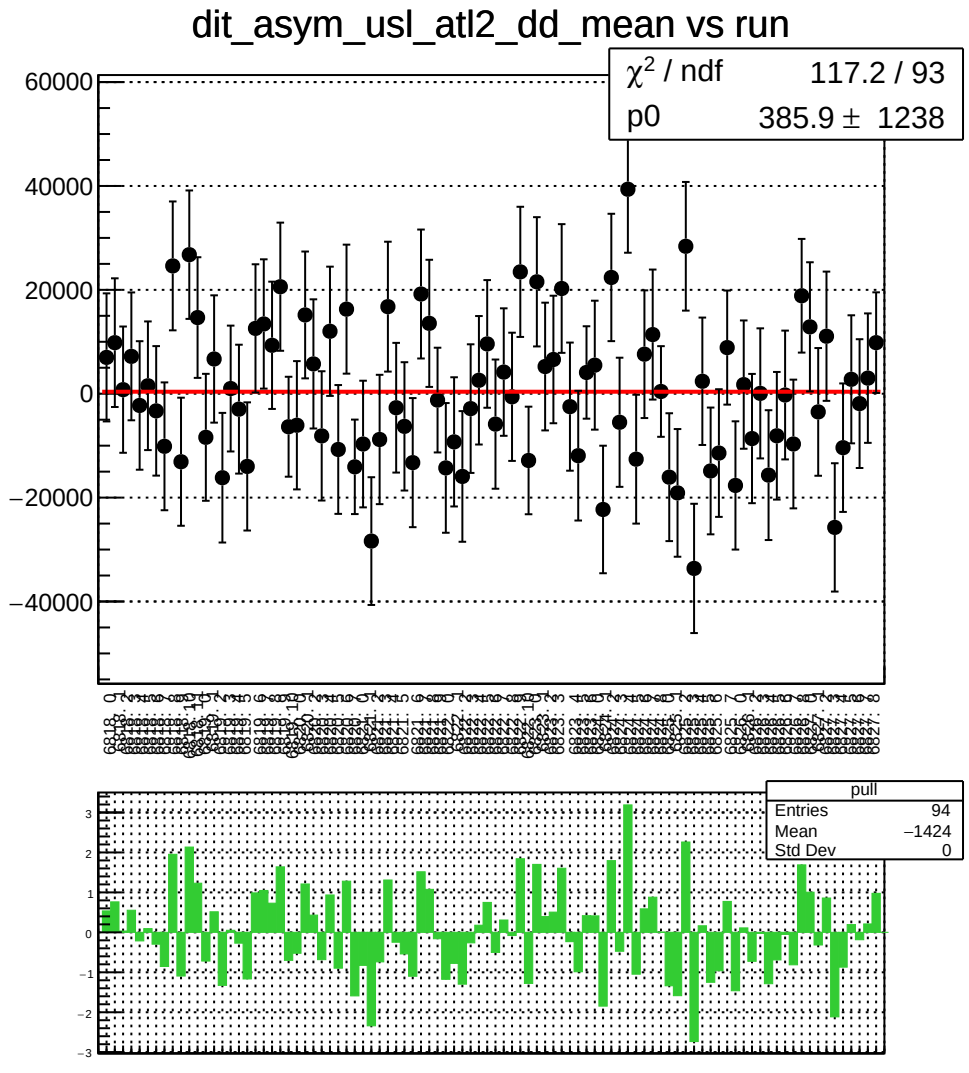

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 123.3 / 93
p0 496.2 ± 1202
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −614.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004239
Std Dev 1.145
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

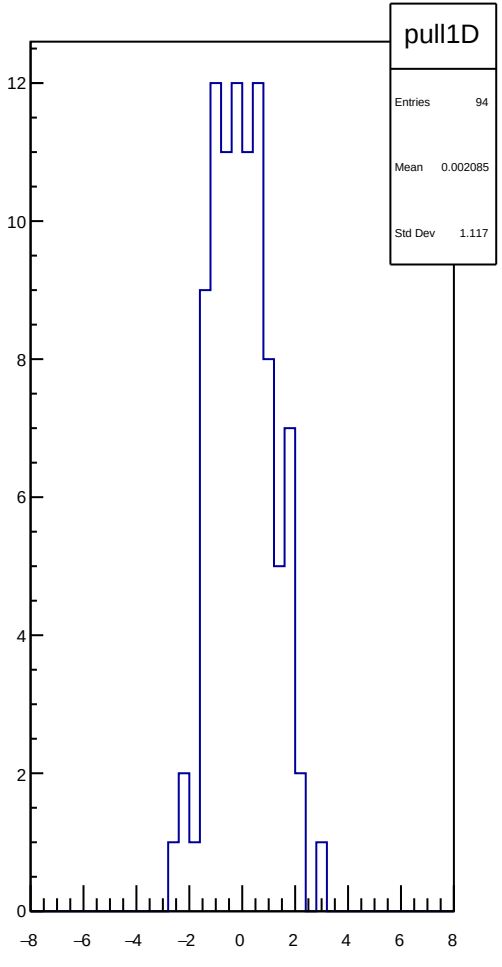

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 95.47 / 93
p0 1139 ± 0.8498
1170
1160
1150
1140
1130
1120
1110

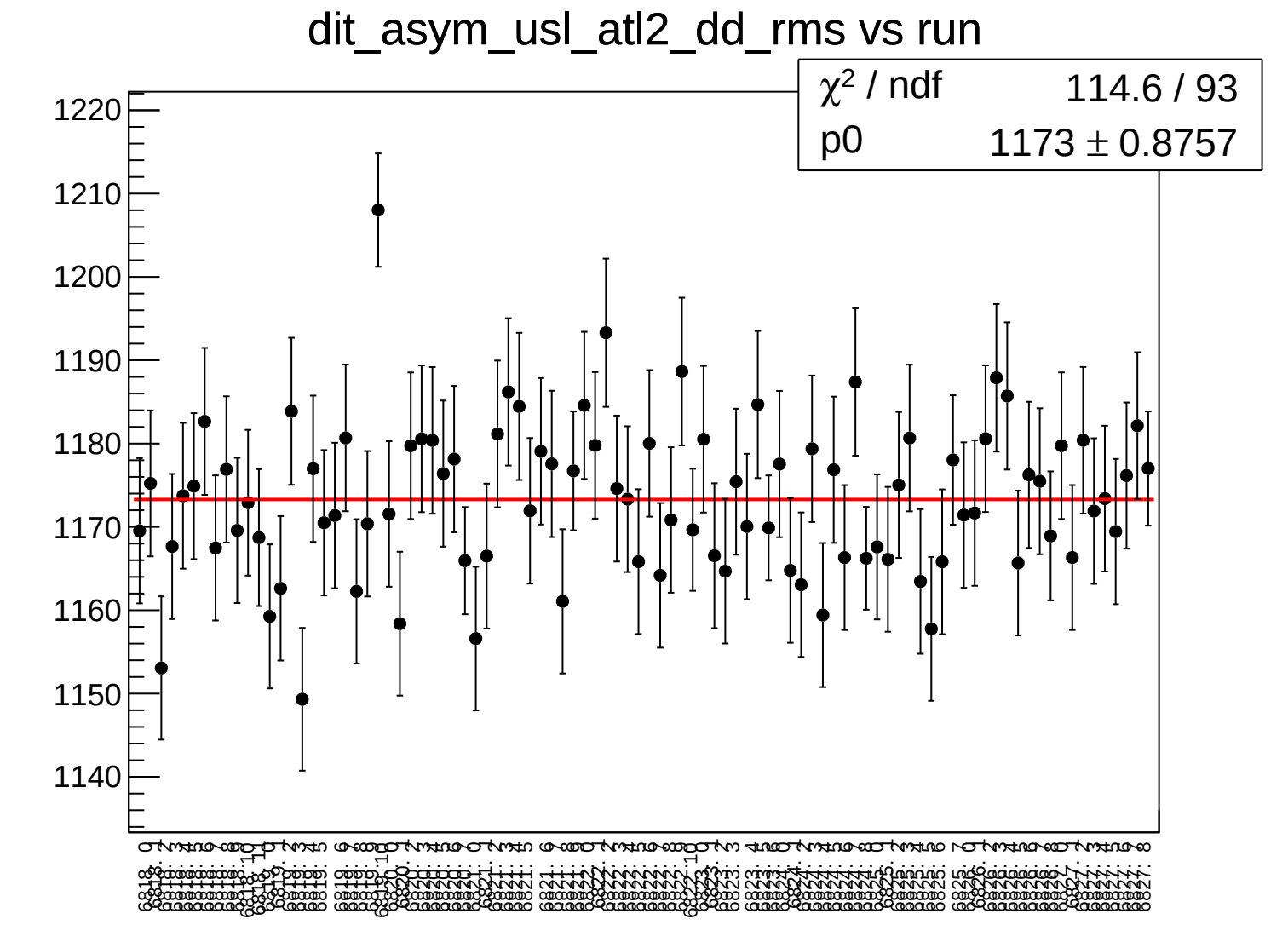

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.57 / 93
p0 −1043 ± 3386
100
50
0
−50
−100
pull
Entries 94
Mean 1216
Std Dev 0
3
2
1
0
−1
−2

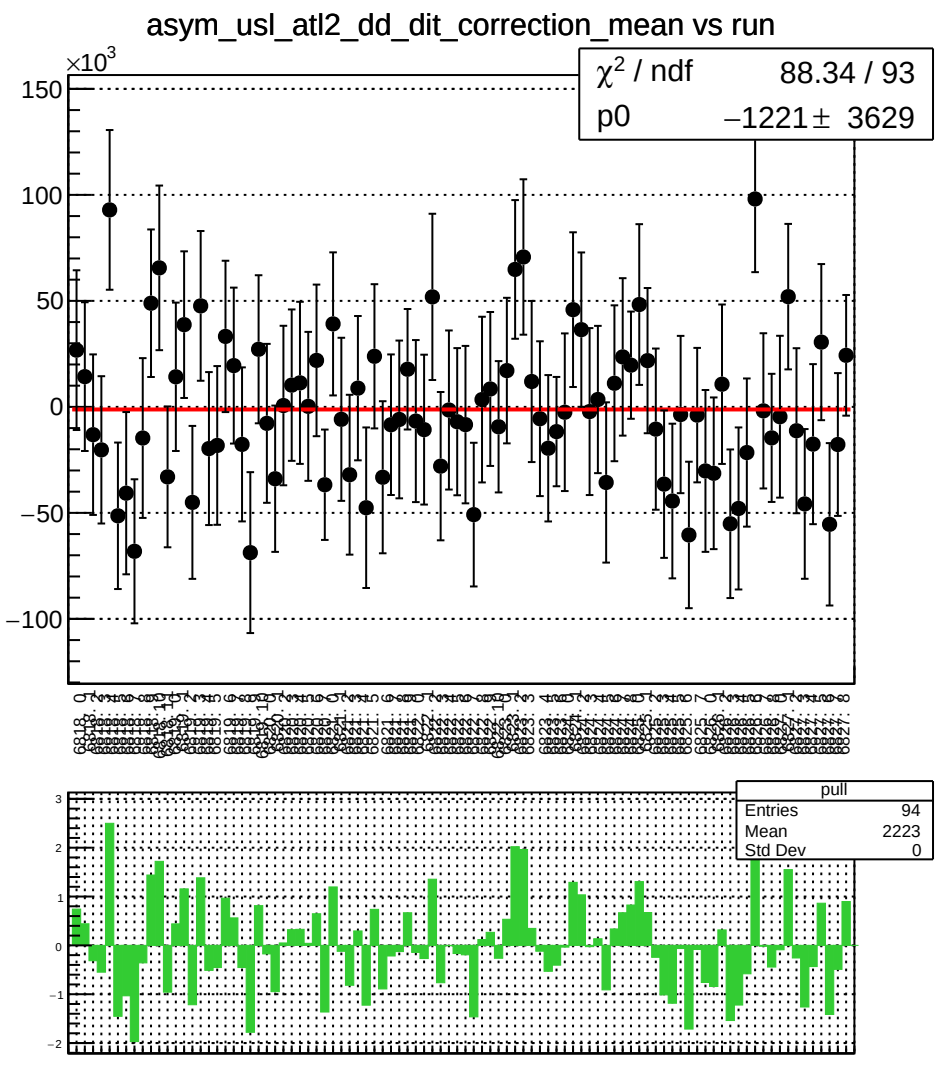

pull1D
Entries 94
Mean −0.0009927
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

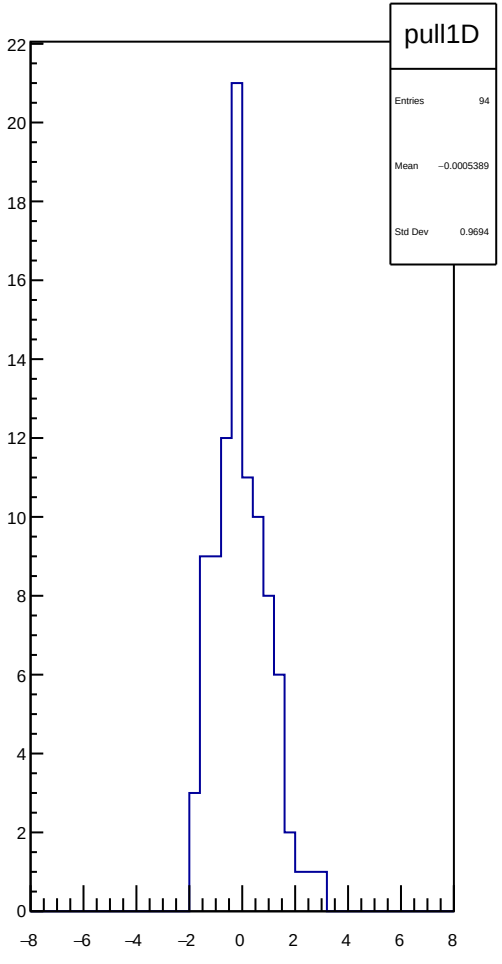

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4820 / 93
p0 3203 ± 2.394
4000
3800
3600
3400
3200
3000
2800

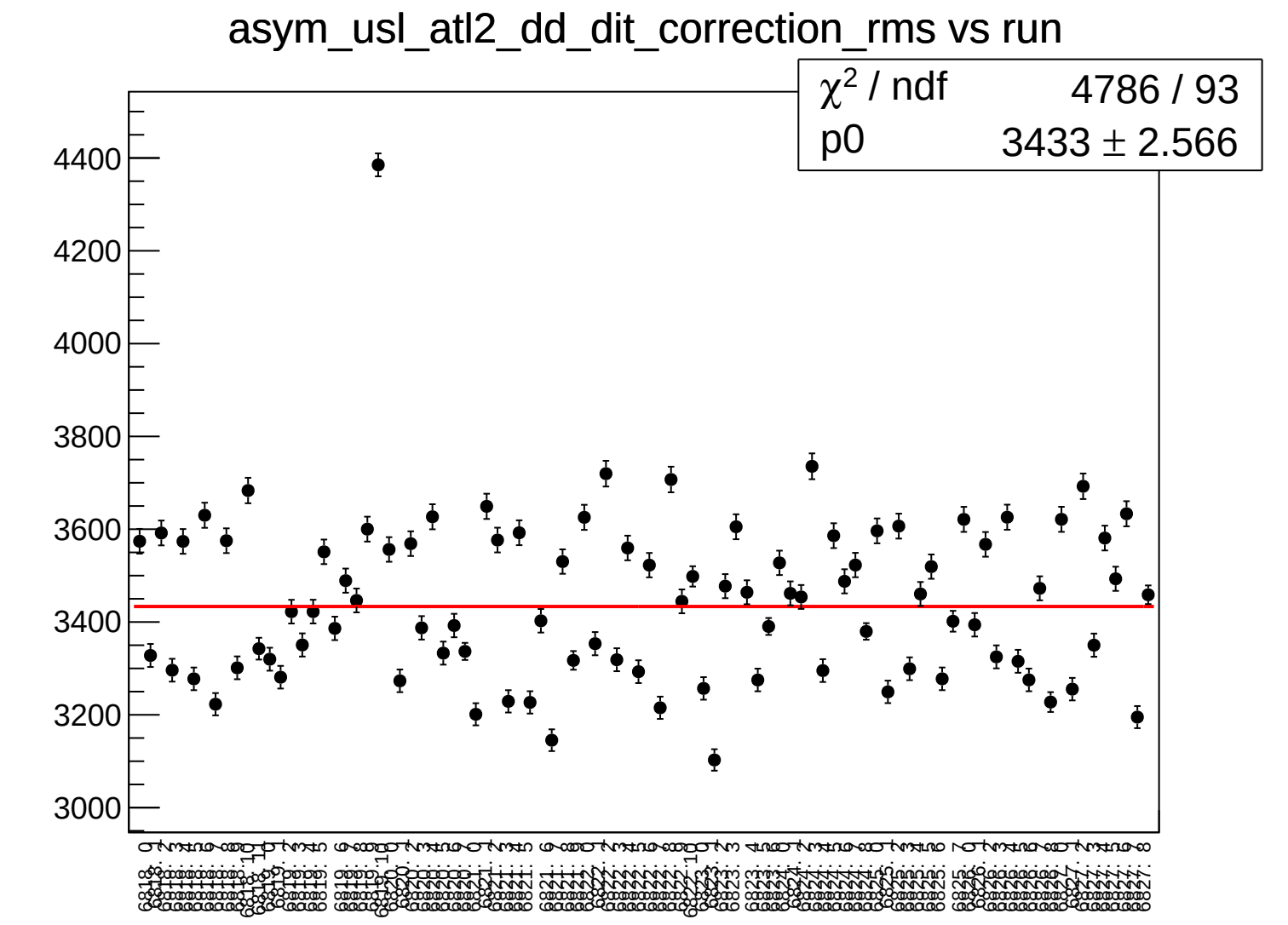

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 117.2 / 93
p0 385.9 ± 1238
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1424
Std Dev 0
3
2
1
0
−1
−2
−3

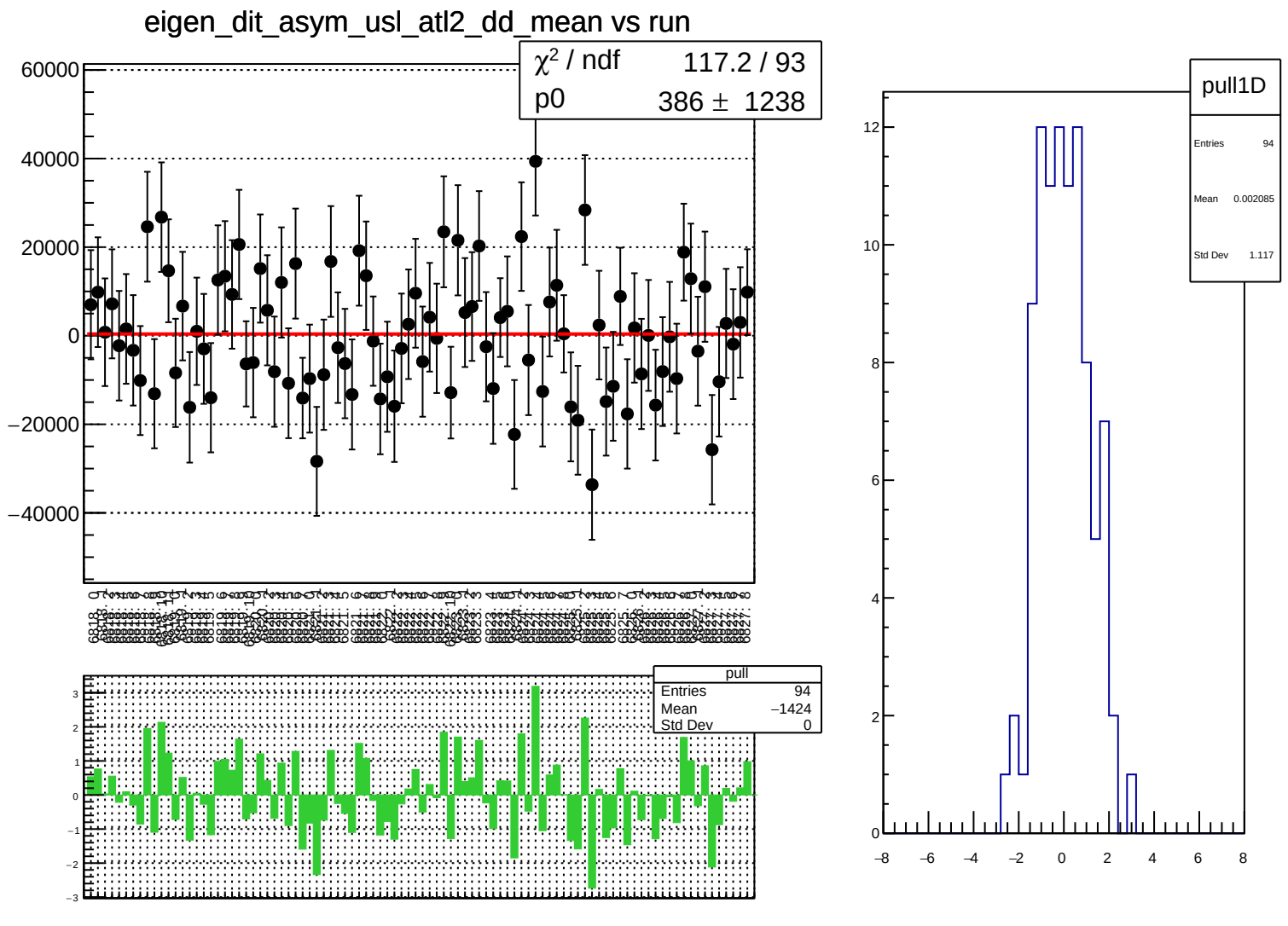

pull1D
Entries 94
Mean 0.002085
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

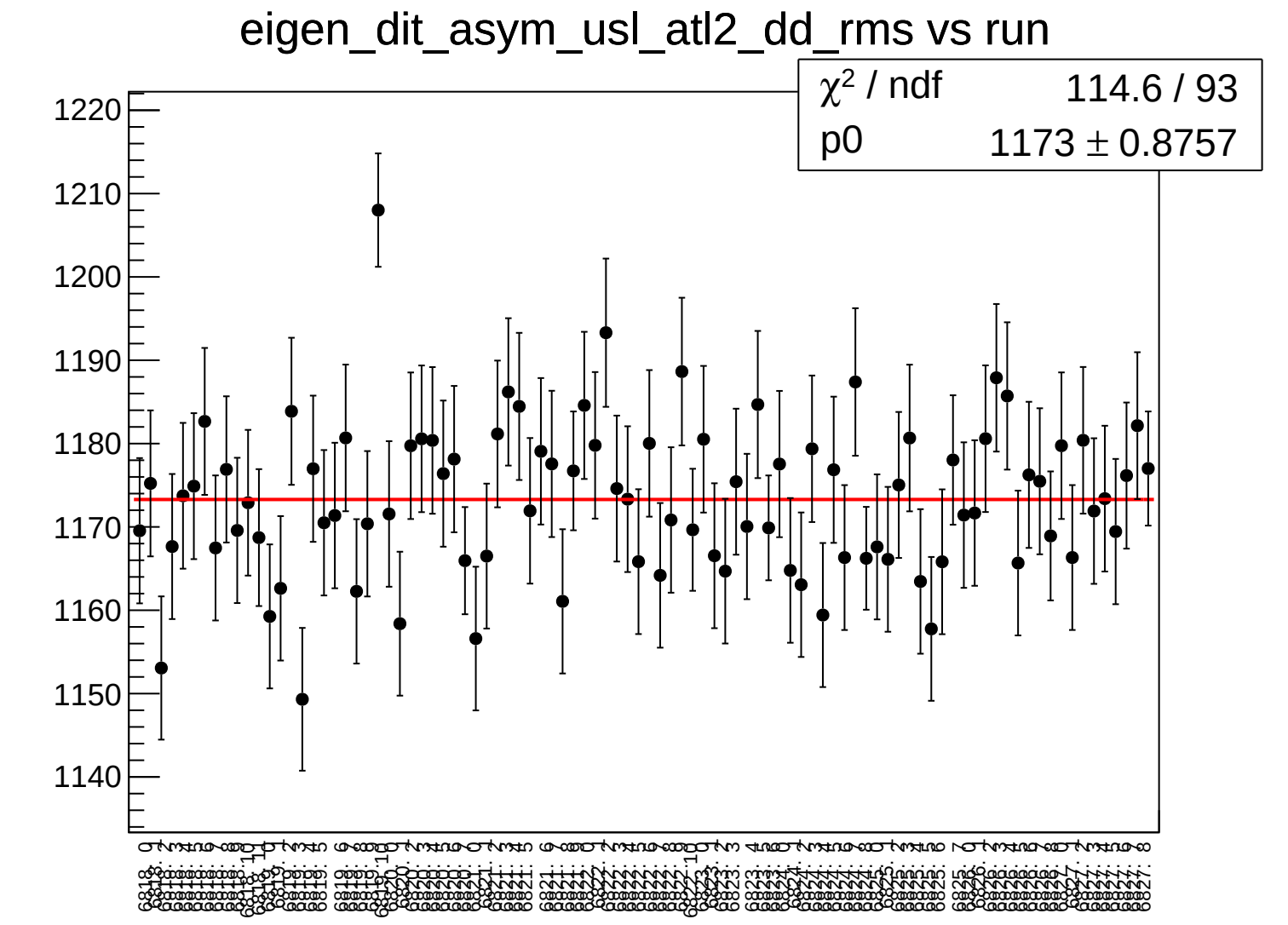

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 114.6 / 93
p0 1173 ± 0.8757
1220
1210
1200
1190
1180
1170
1160
1150
1140

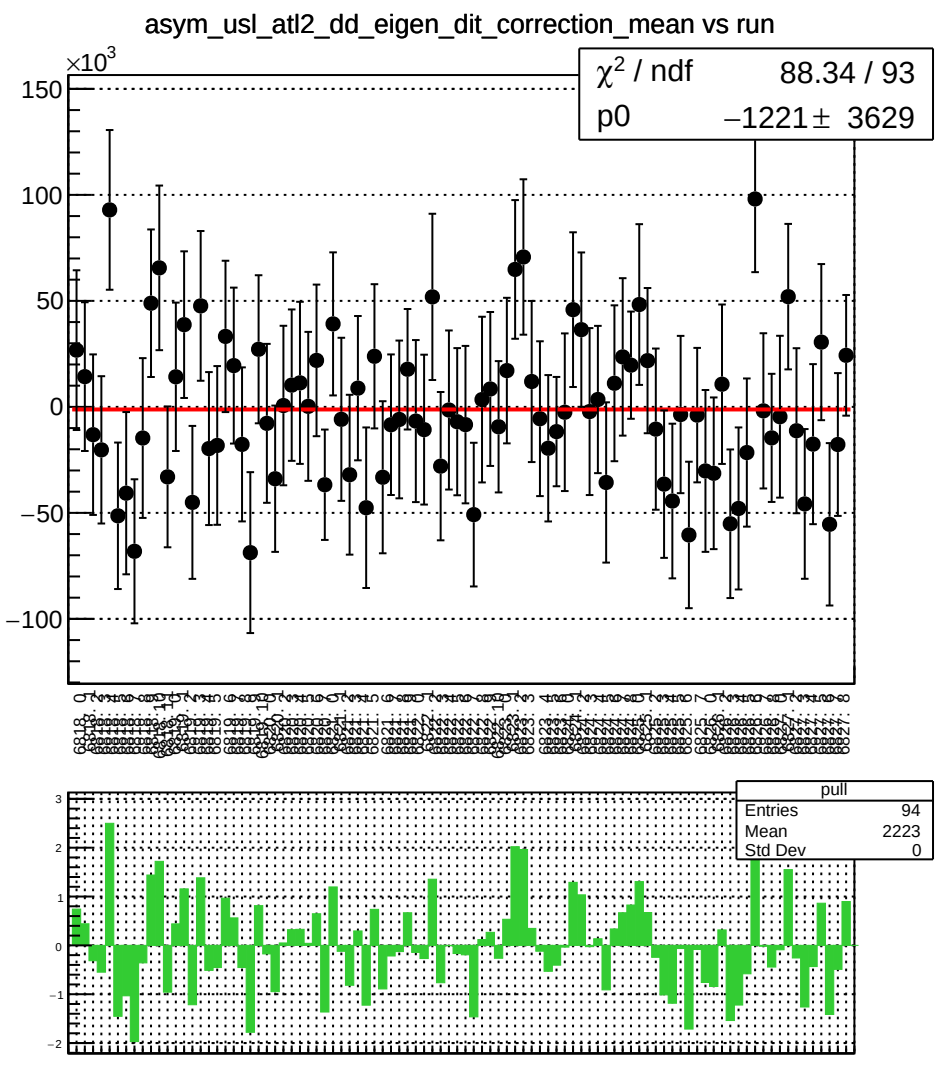

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 88.34 / 93
p0 −1221 ± 3629
150
100
50
0
−50
−100
pull
Entries 94
Mean 2223
Std Dev 0
3
2
1
0
−1
−2

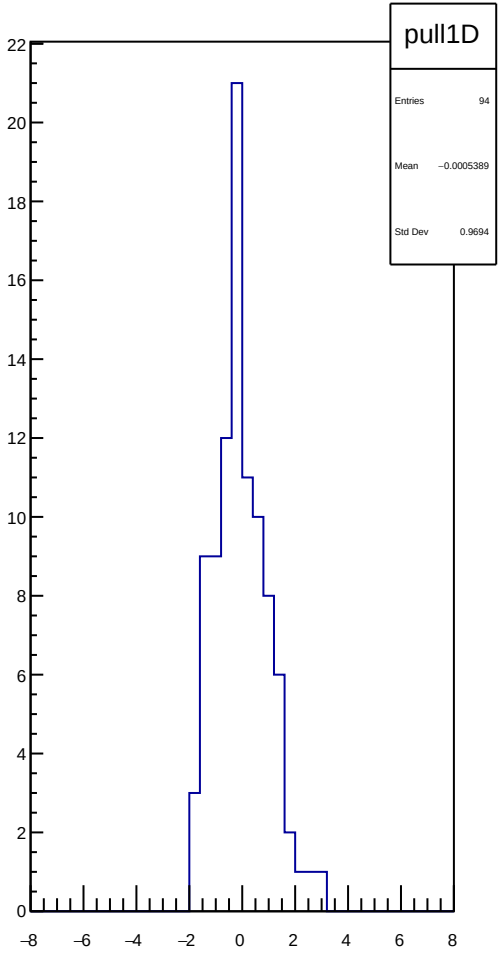

pull1D
Entries 94
Mean −0.0005389
Std Dev 0.9694
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

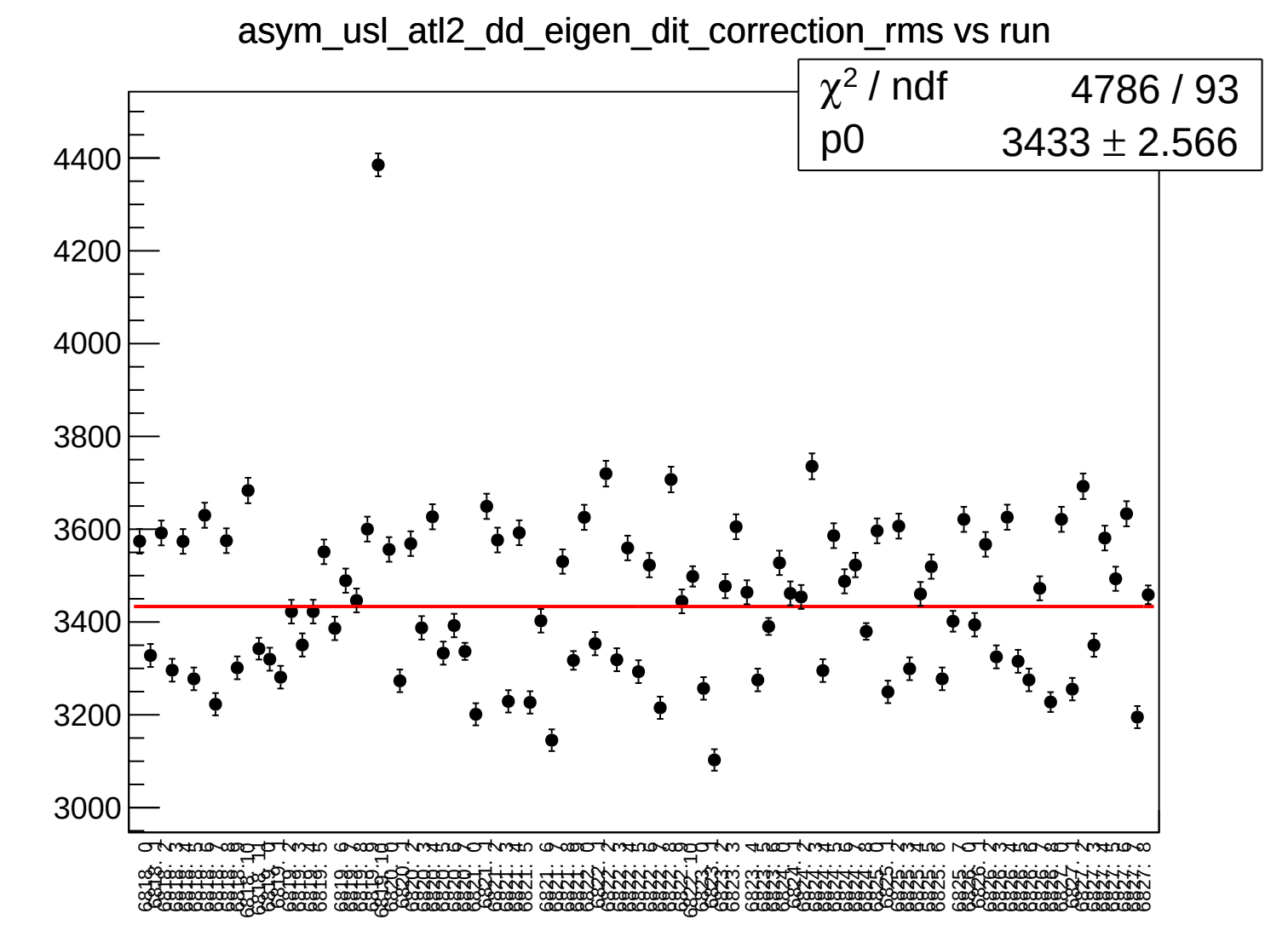

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4786 / 93
p0 3433 ± 2.566
4400
4200
4000
3800
3600
3400
3200
3000

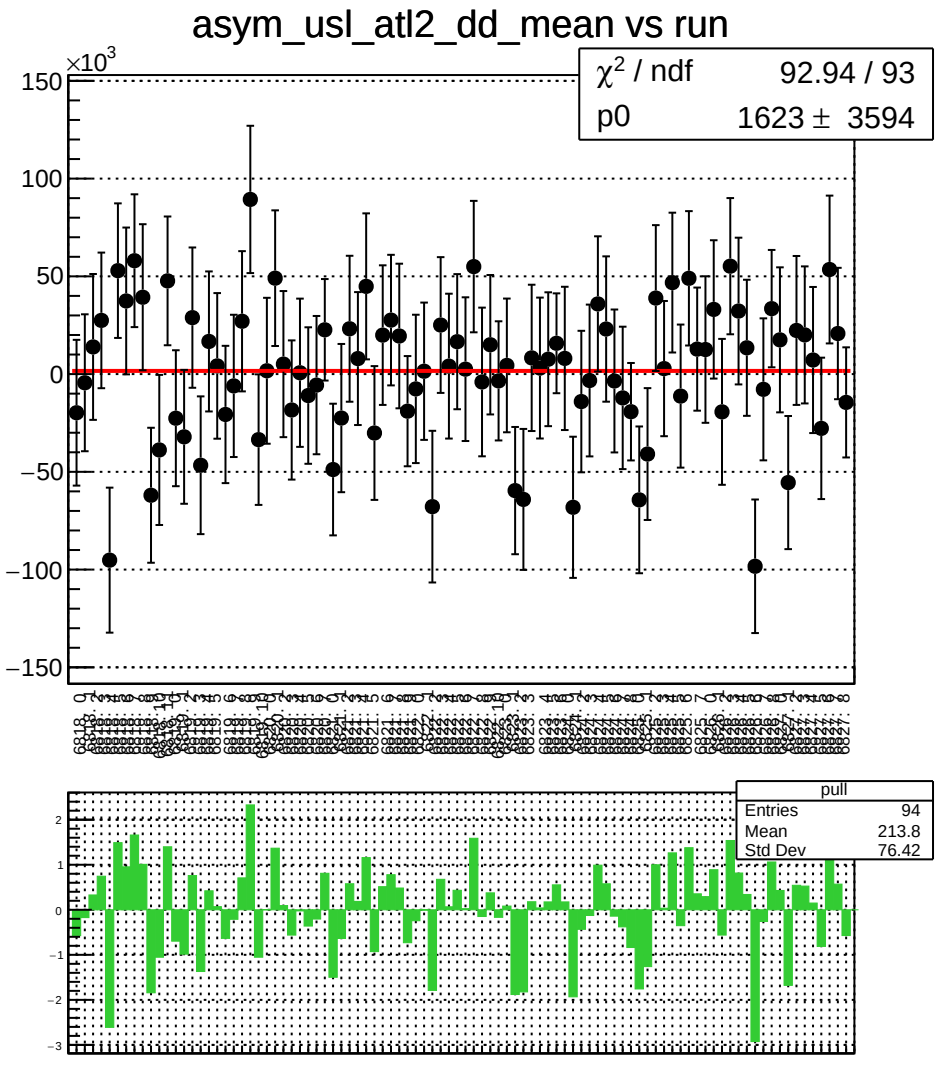

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 117.2 / 93
p0 386 ± 1238
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −1424
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002085
Std Dev 1.117
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

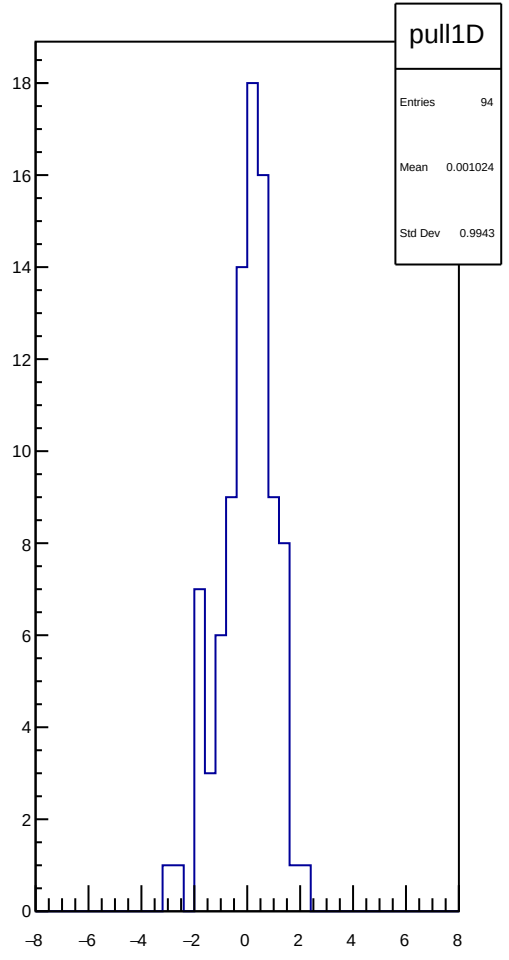

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 114.6 / 93
p0 1173 ± 0.8757
1220
1210
1200
1190
1180
1170
1160
1150
1140

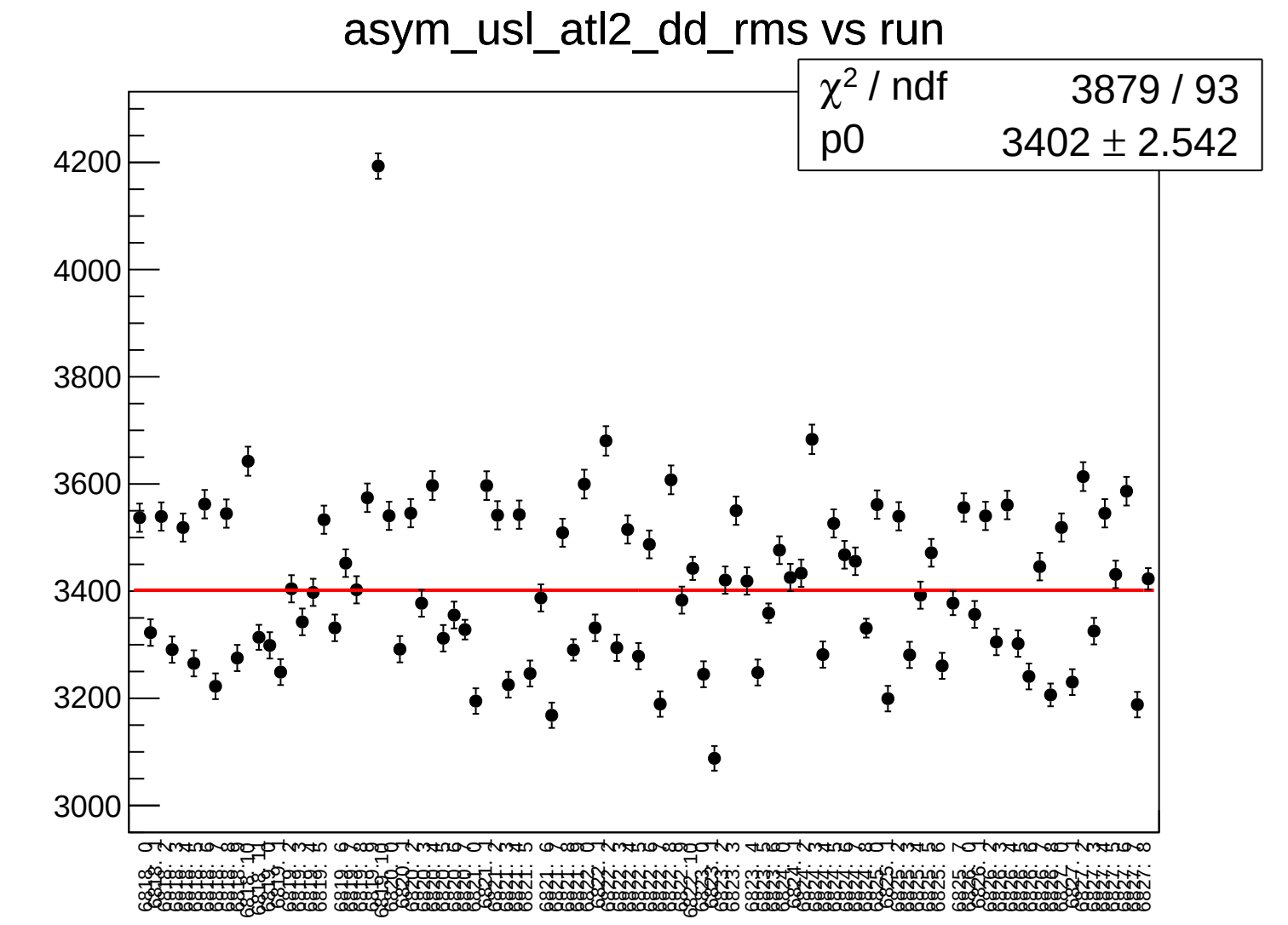

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 88.34 / 93
p0 −1221 ± 3629
150
100
50
0
−50
−100
pull
Entries 94
Mean 2223
Std Dev 0
3
2
1
0
−1
−2

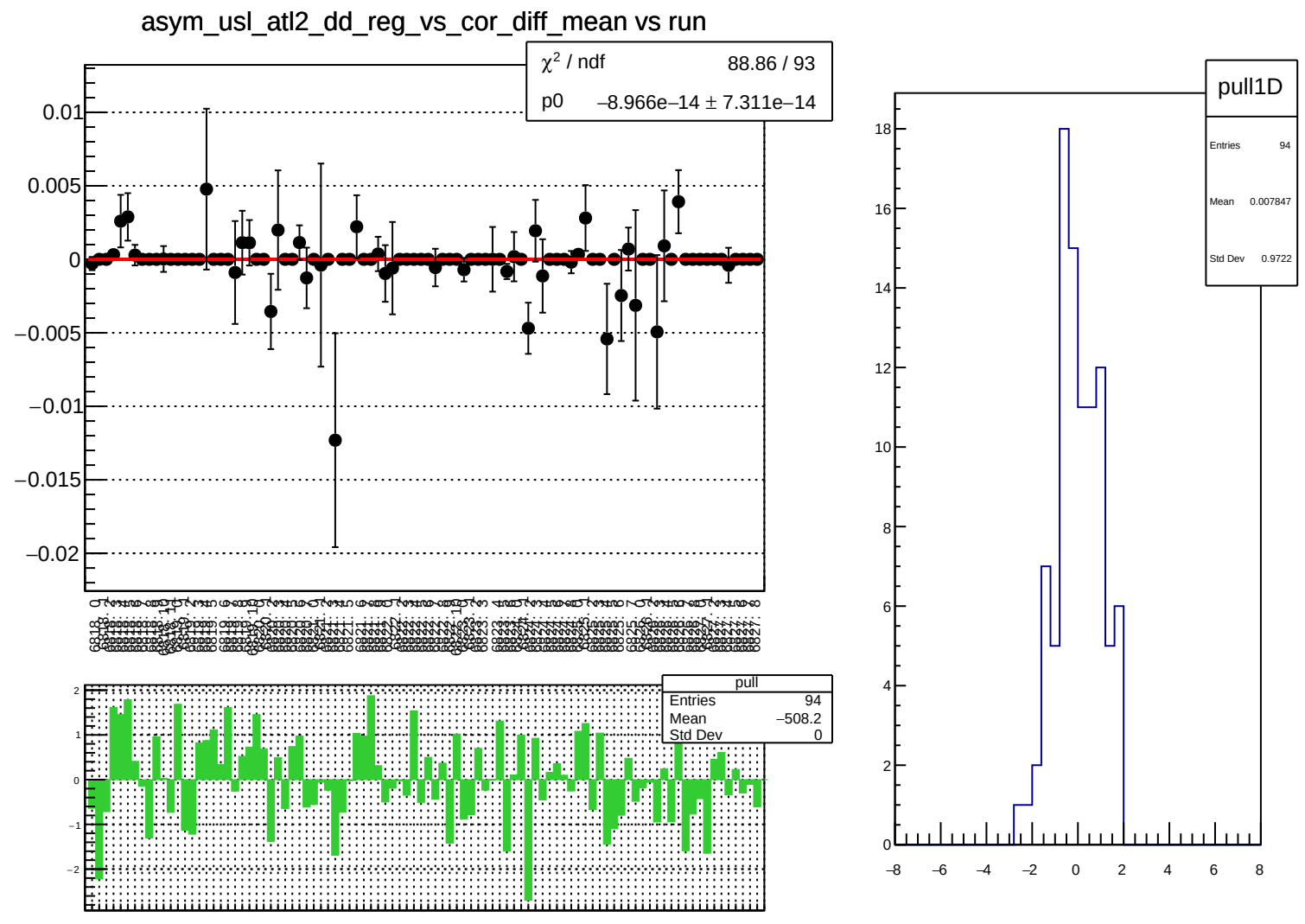

pull1D
Entries 94
Mean −0.0005389
Std Dev 0.9694
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

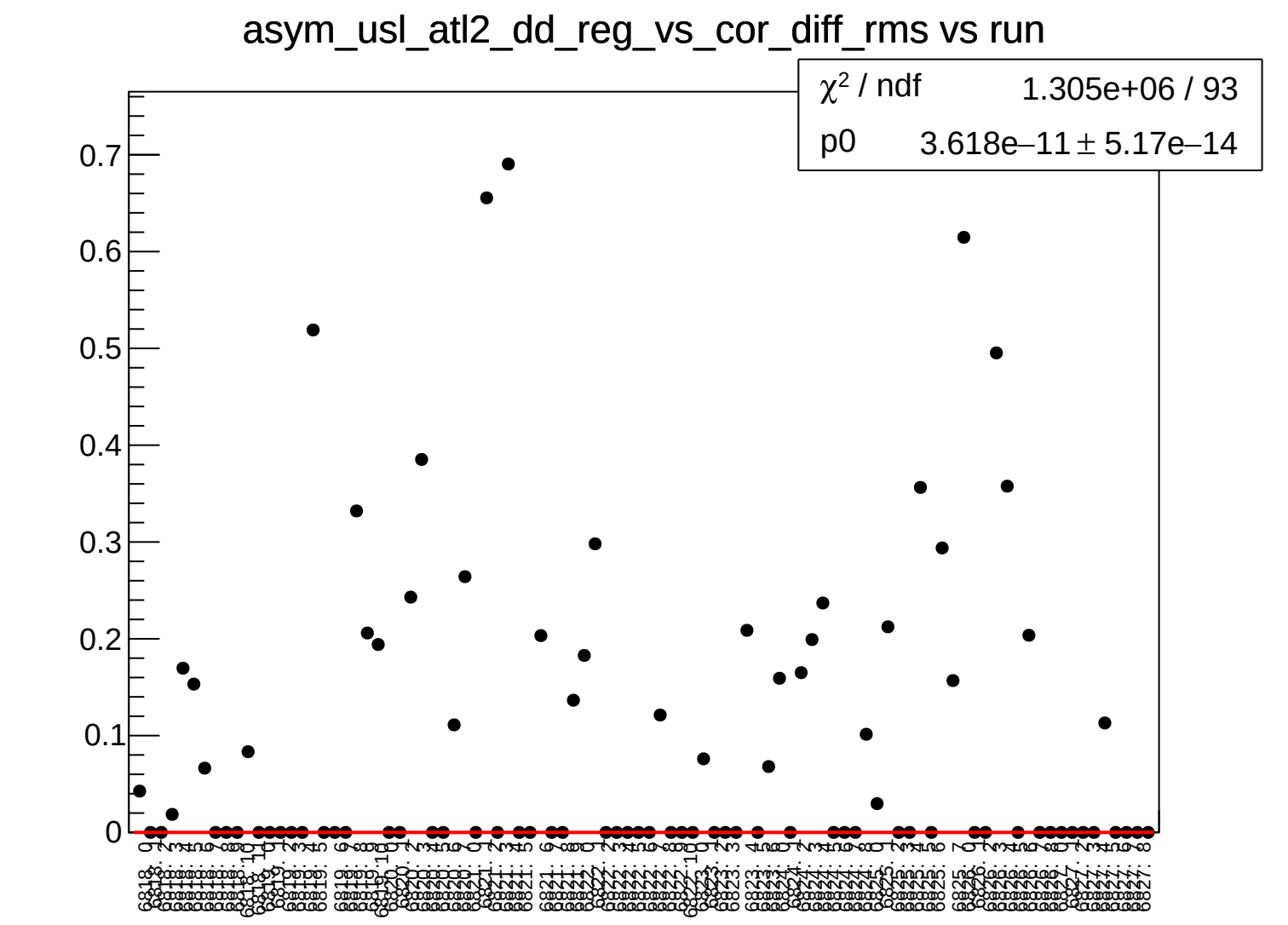

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4786 / 93
p0 3433 ± 2.566
4400
4200
4000
3800
3600
3400
3200
3000

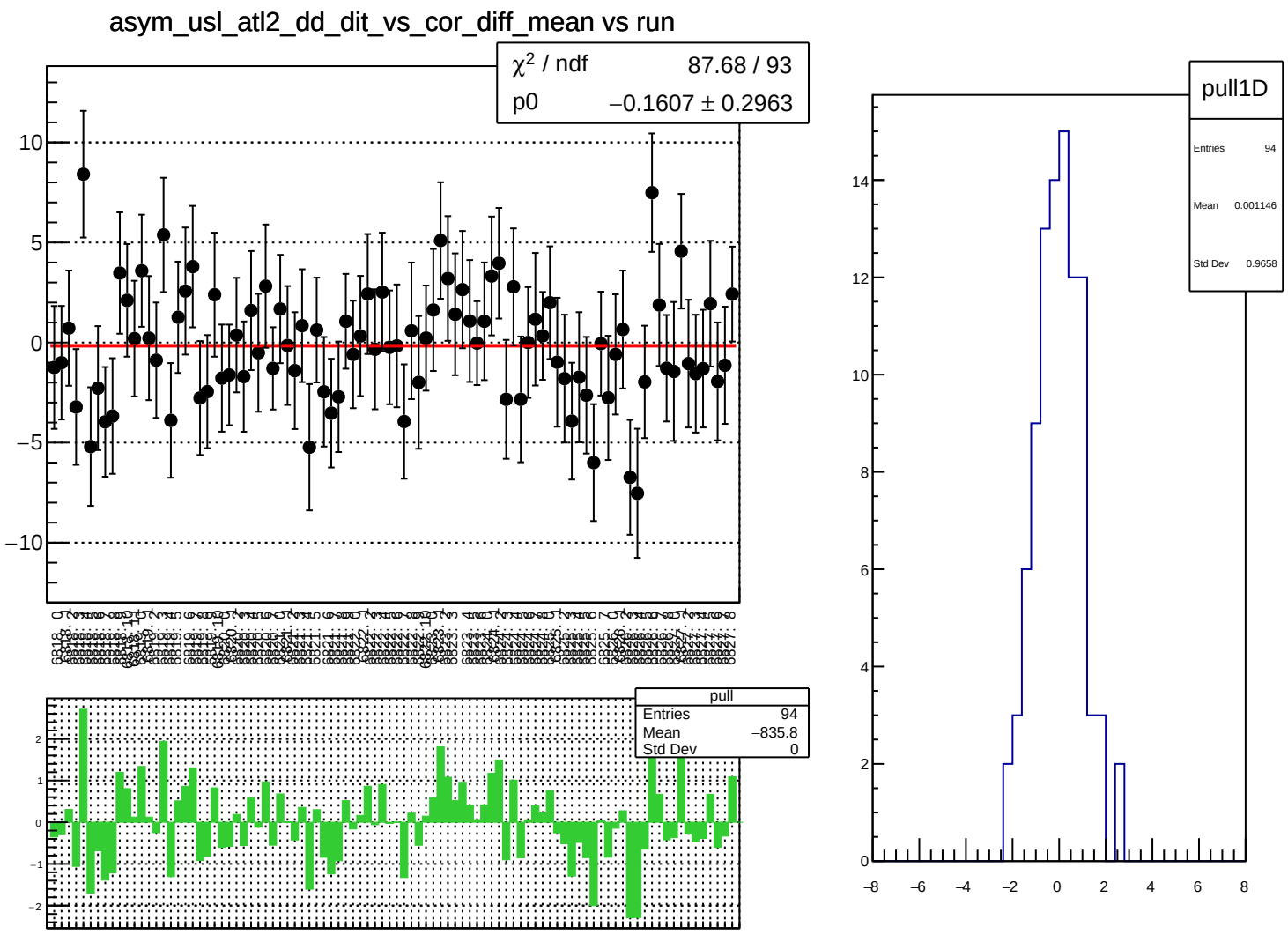

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 92.94 / 93
p0 1623 ± 3594
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean 213.8
Std Dev 76.42
2
1
0
−1
−2
−3

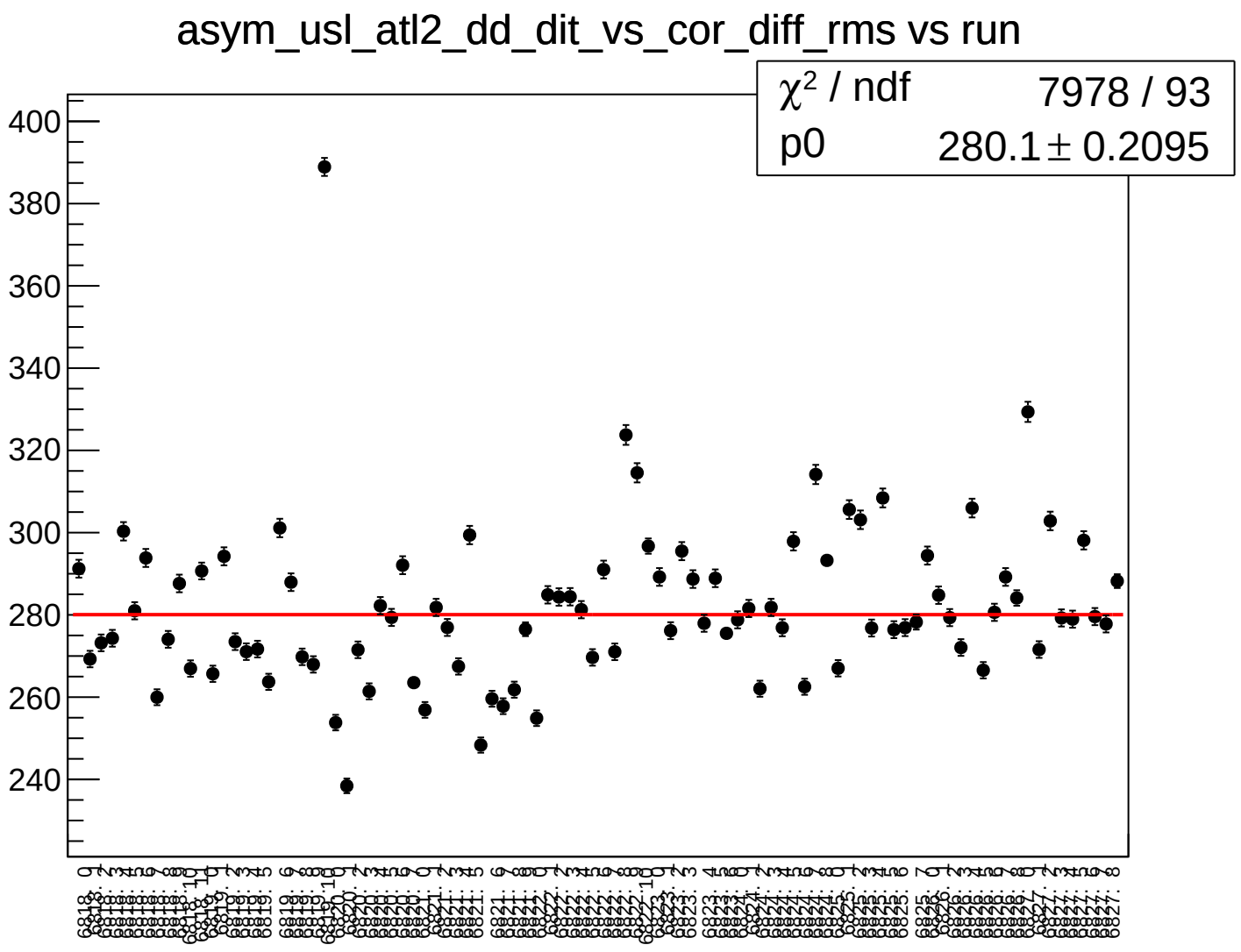

pull1D
Entries 94
Mean 0.001024
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

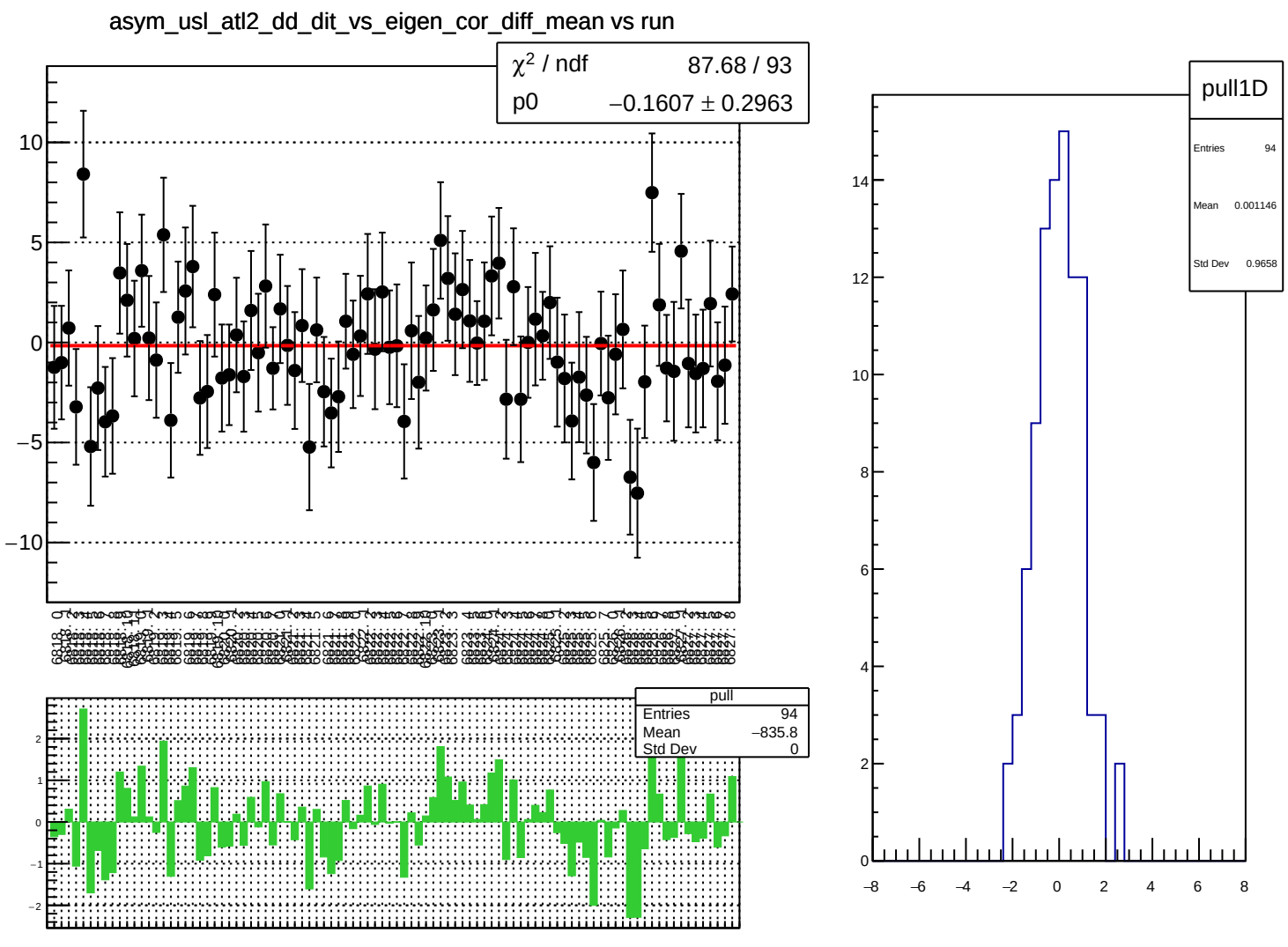

asym_usl_atl2_dd_rms vs run
χ² / ndf 3879 / 93
p0 3402 ± 2.542
4200
4000
3800
3600
3400
3200
3000

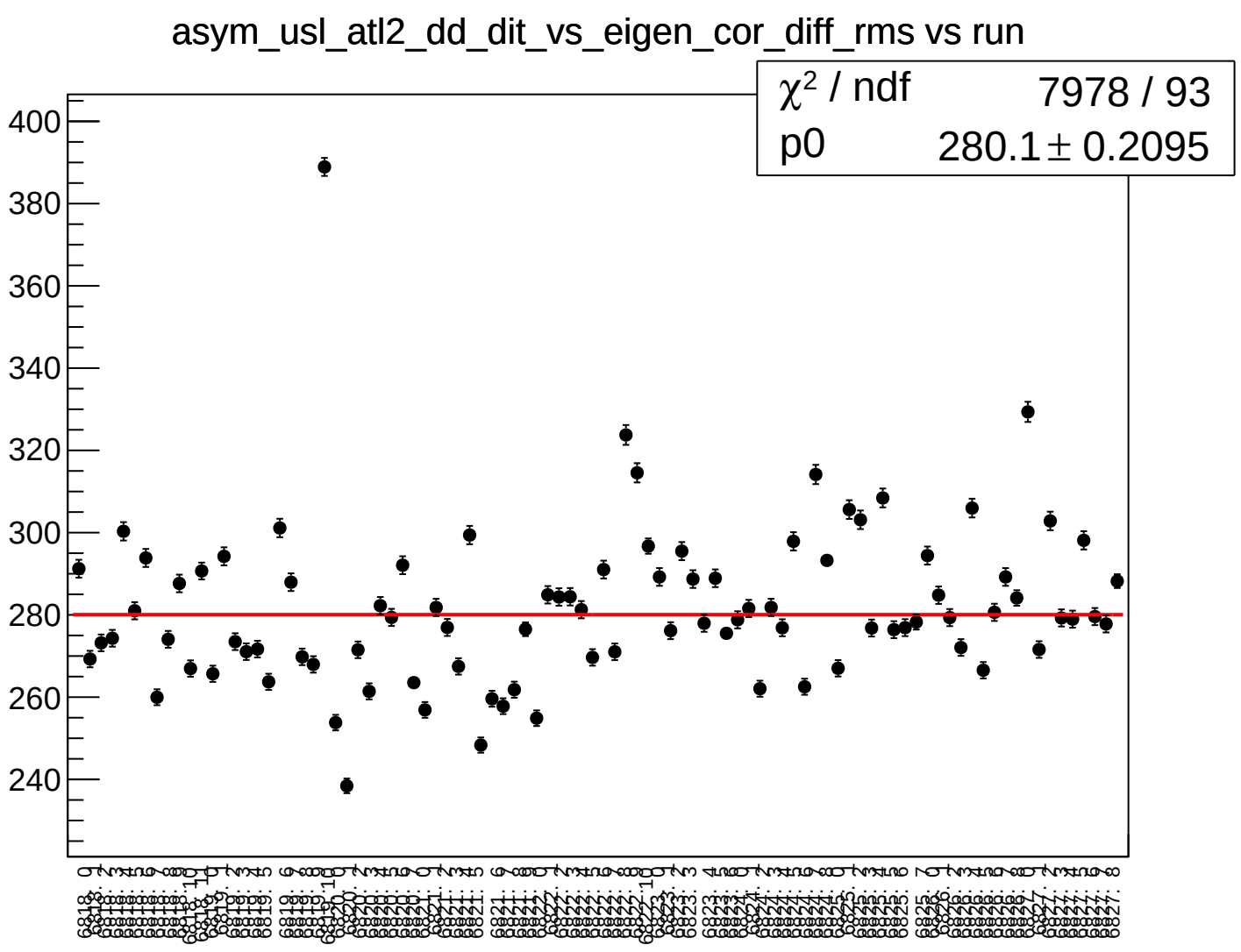

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.86 / 93
p0 −8.966e−14 ± 7.311e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean −508.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.007847
Std Dev 0.9722
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

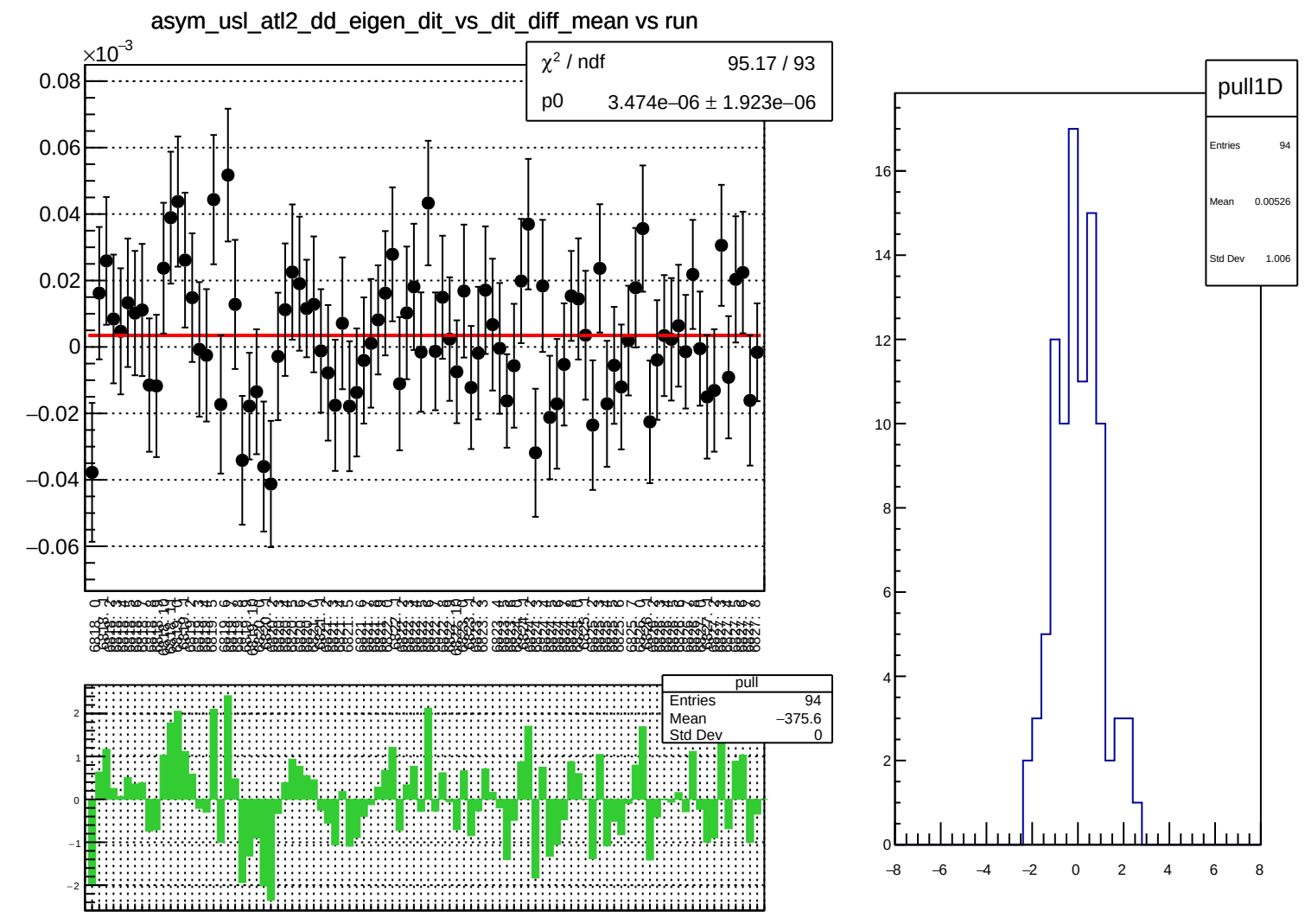

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 93
p0 3.618e−11 ± 5.17e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

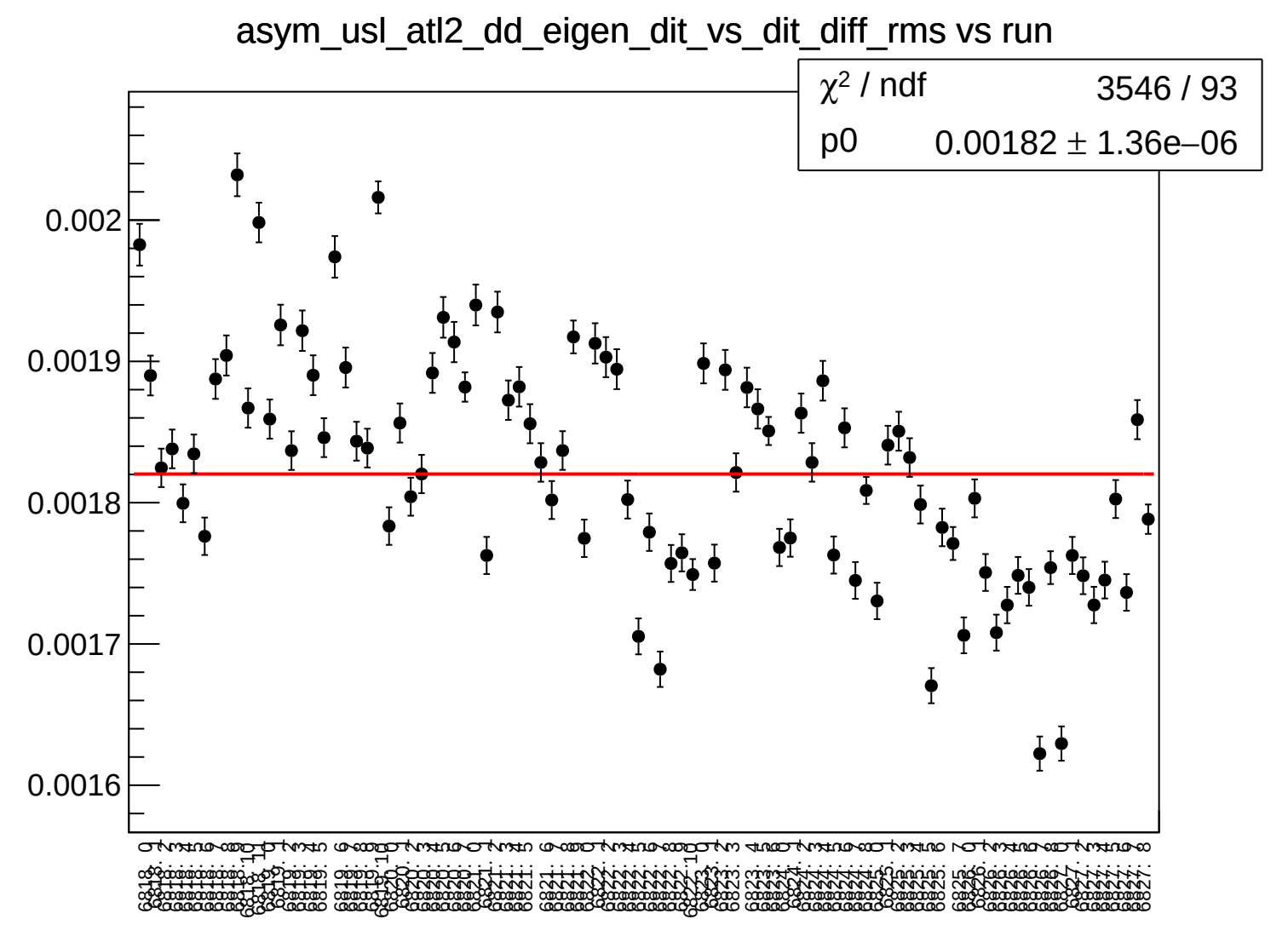

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 93
p0 −0.1607 ± 0.2963
pull
Entries 94
Mean −835.8
Std Dev 0
pull1D
Entries 94
Mean 0.001146
Std Dev 0.9658

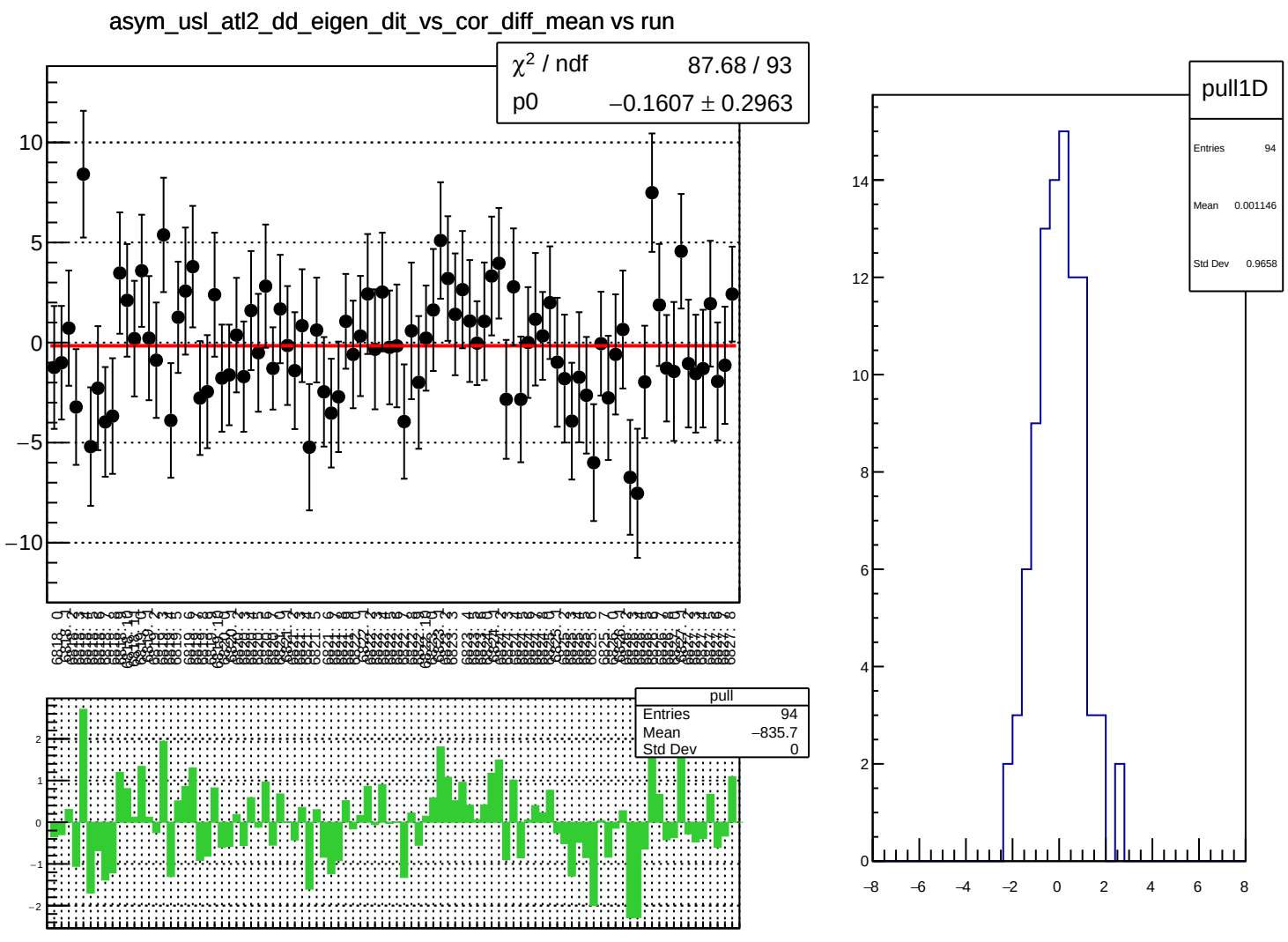

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7978 / 93
p0 280.1 ± 0.2095
400
380
360
340
320
300
280
260
240

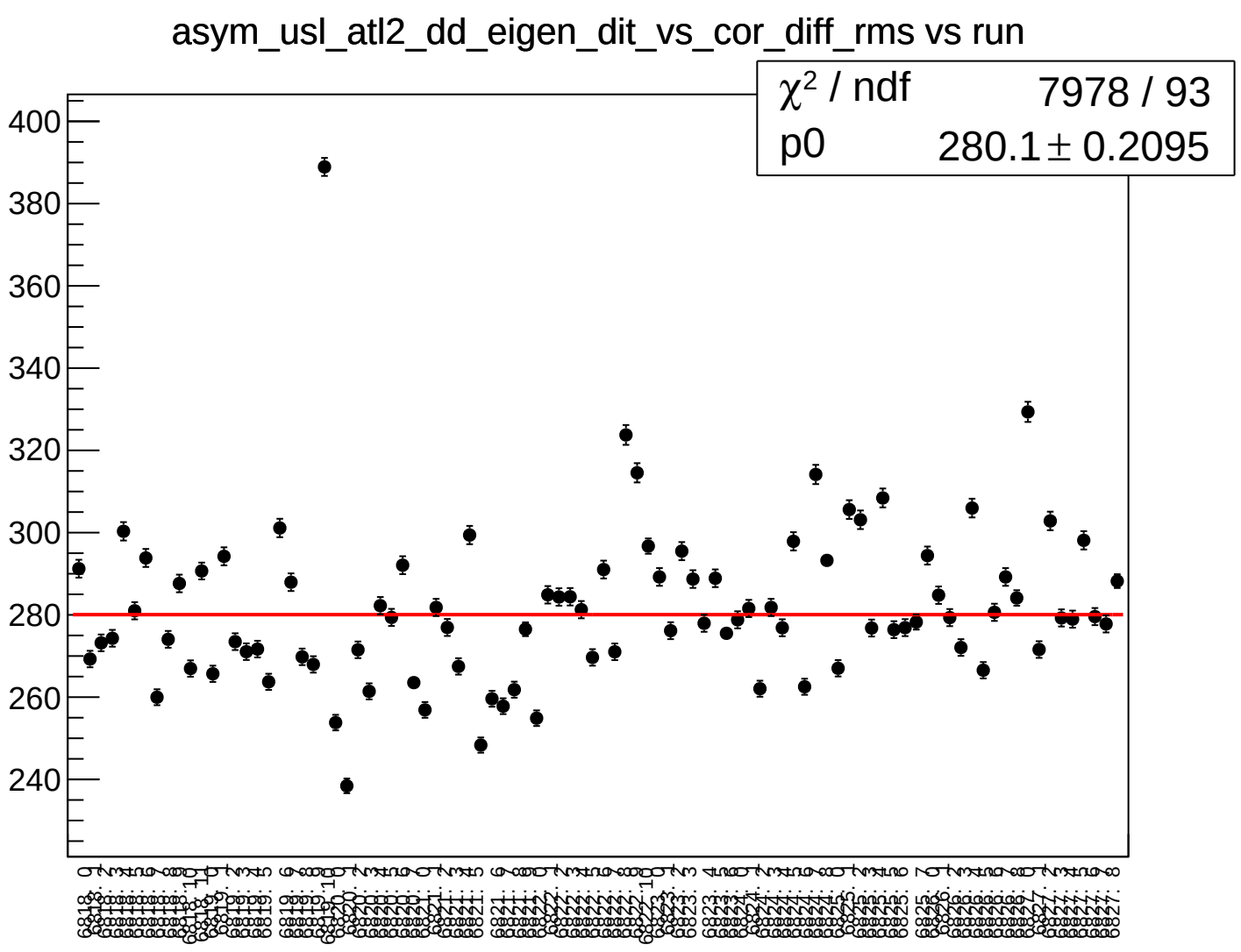

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 93
p0 −0.1607 ± 0.2963
pull
Entries 94
Mean −835.8
Std Dev 0
pull1D
Entries 94
Mean 0.001146
Std Dev 0.9658

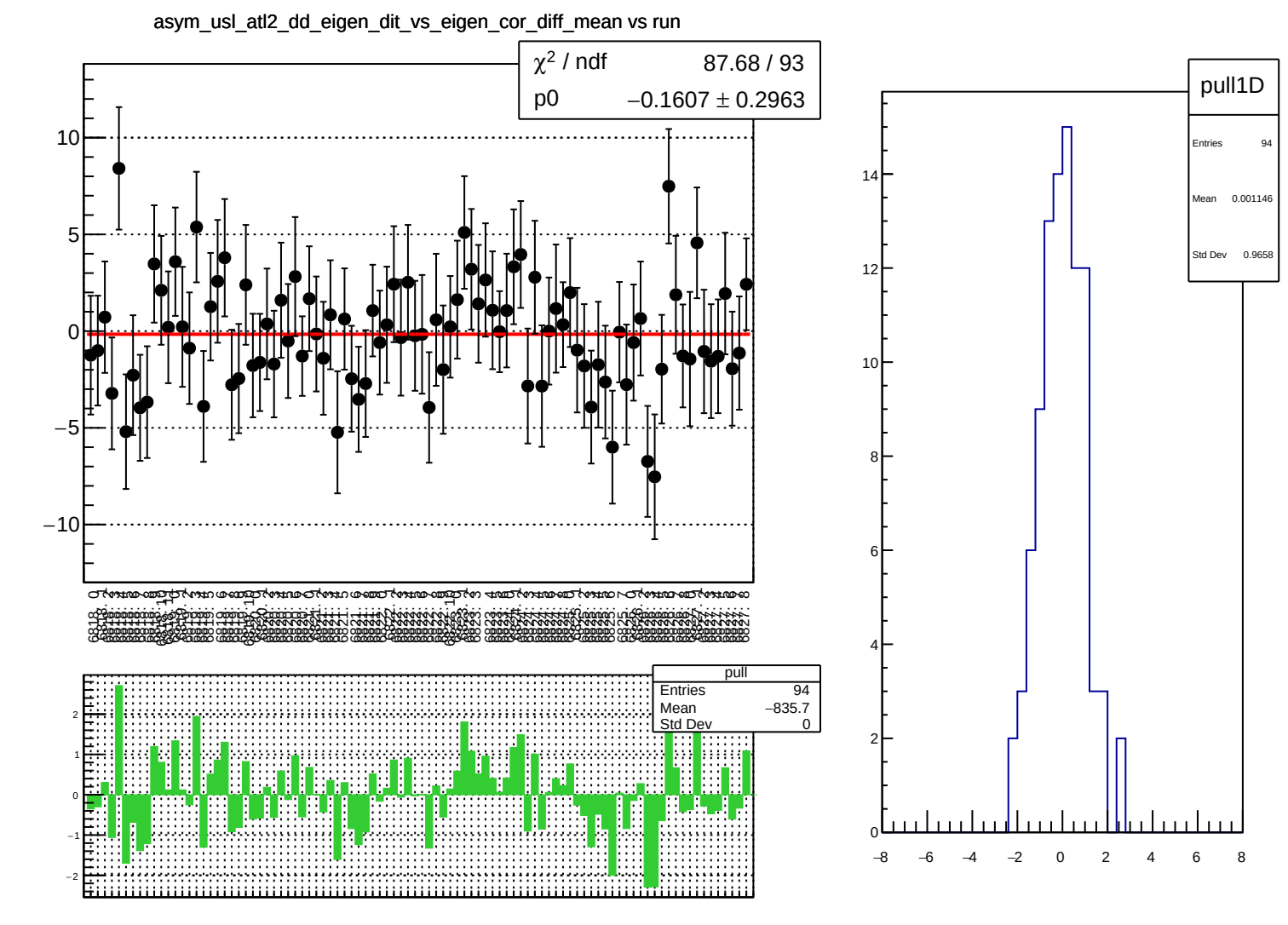

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7978 / 93
p0 280.1 ± 0.2095
400
380
360
340
320
300
280
260
240

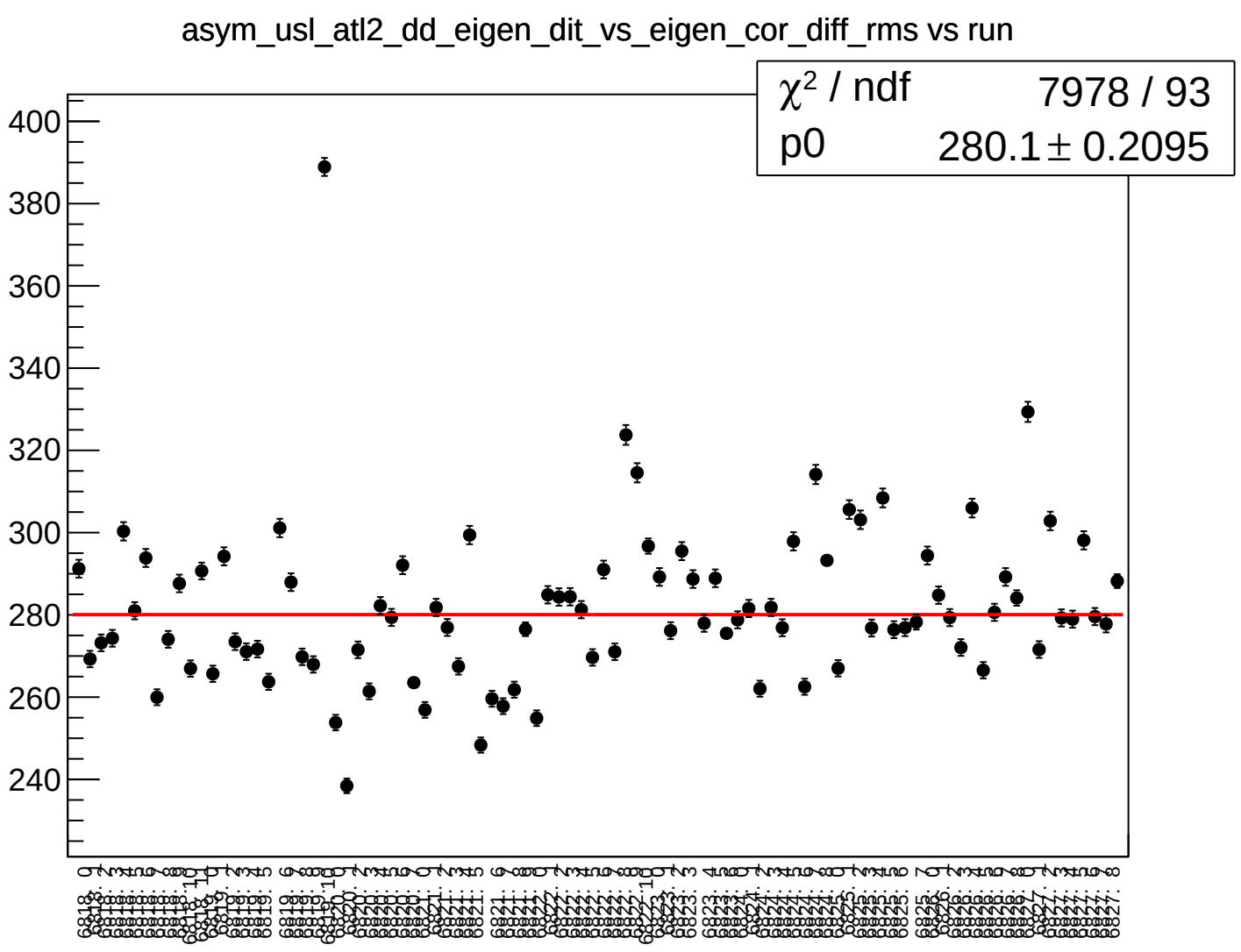

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.17 / 93
p0 3.474e−06 ± 1.923e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −375.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.00526
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

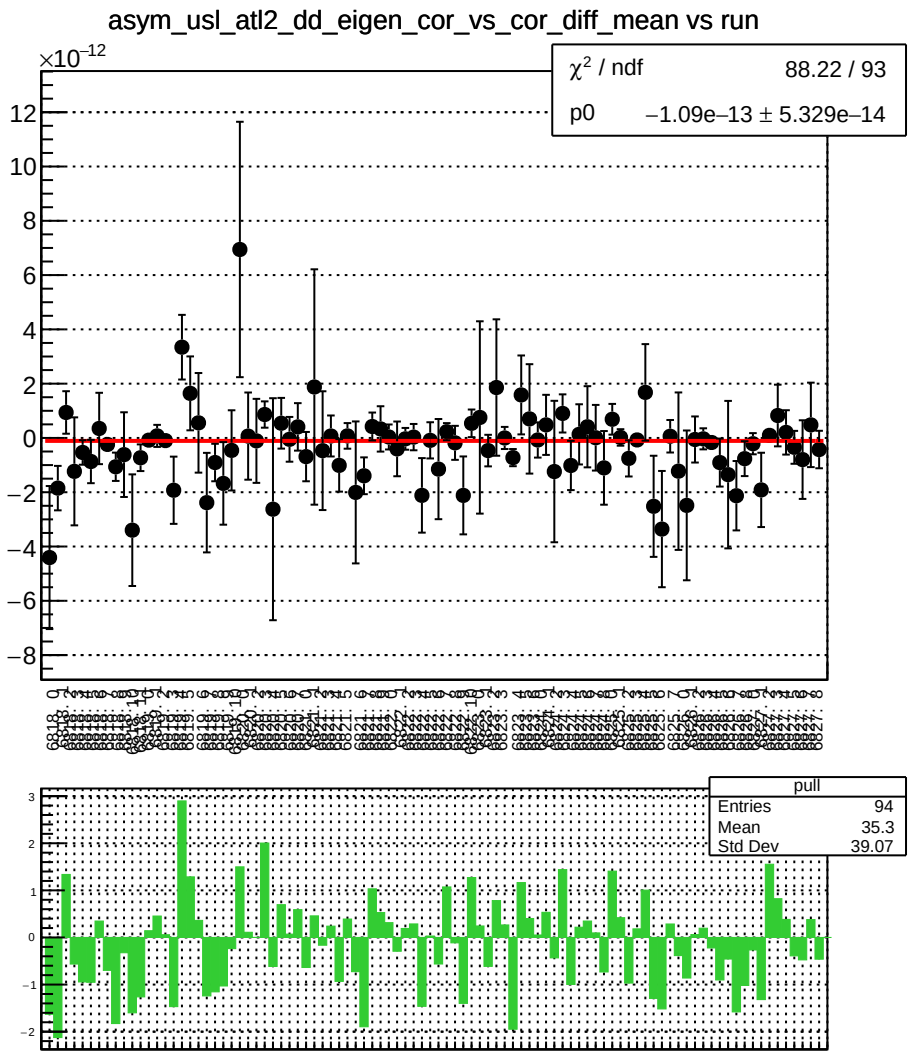

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3546 / 93
p0 0.00182 ± 1.36e−06
0.002
0.0019
0.0018
0.0017
0.0016

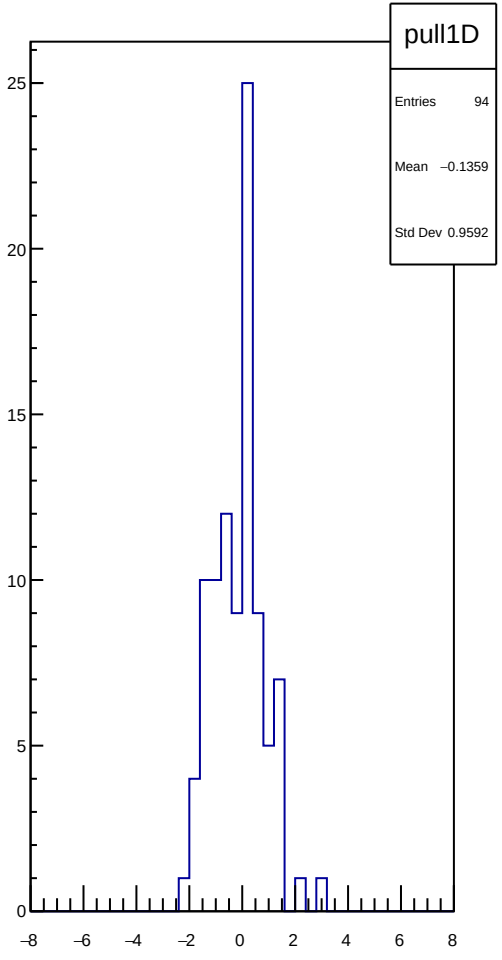

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.68 / 93
p0 −0.1607 ± 0.2963
pull
Entries 94
Mean −835.7
Std Dev 0
pull1D
Entries 94
Mean 0.001146
Std Dev 0.9658

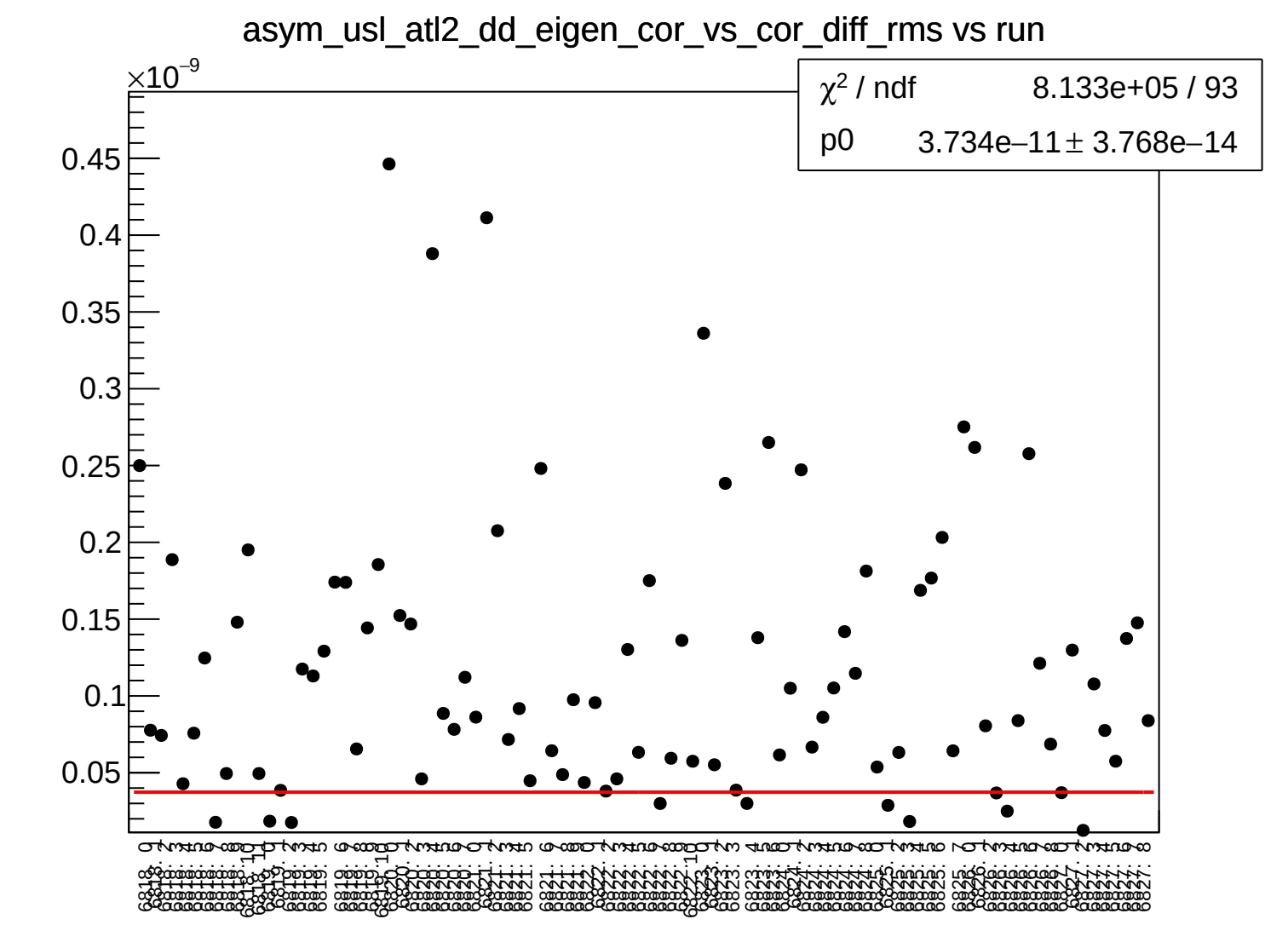

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7978 / 93
p0 280.1 ± 0.2095
400
380
360
340
320
300
280
260
240

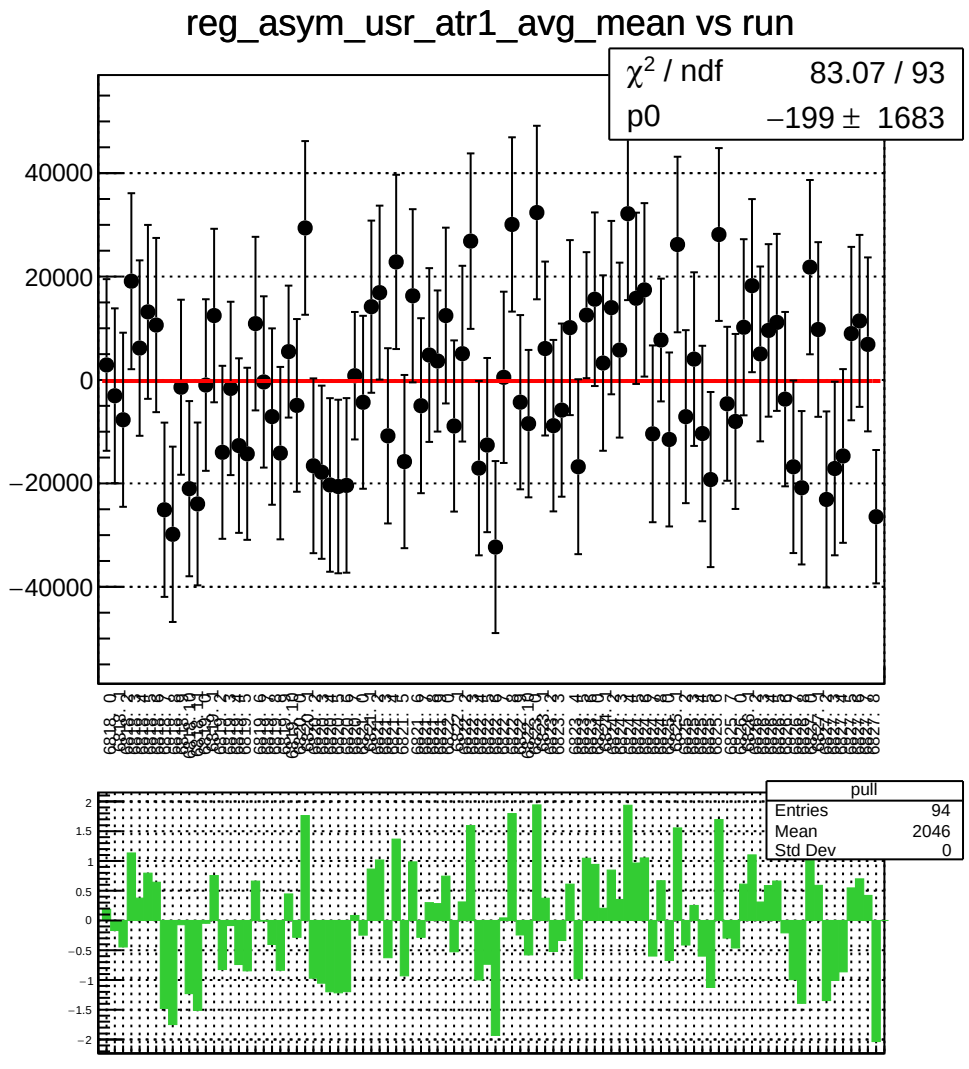

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.68 / 93
p0 −0.1607 ± 0.2963
pull
Entries 94
Mean −835.7
Std Dev 0
pull1D
Entries 94
Mean 0.001146
Std Dev 0.9658

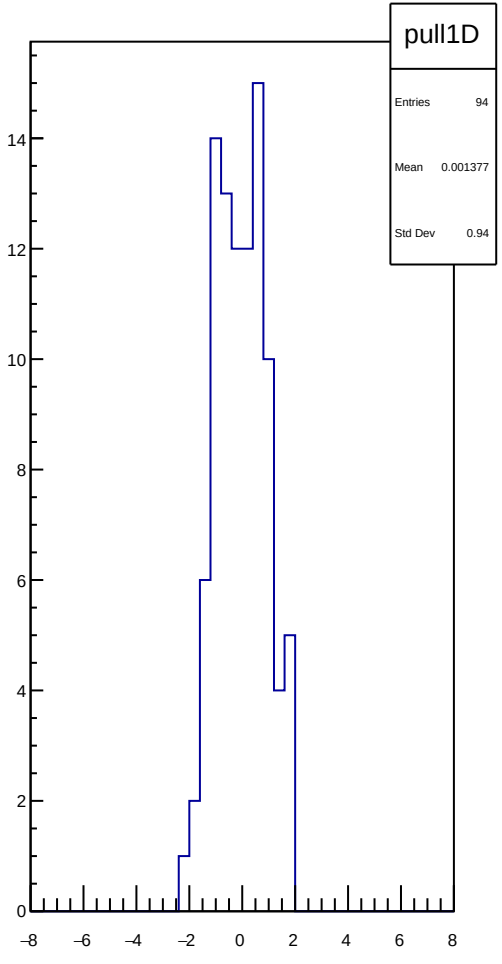

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7978 / 93
p0 280.1 ± 0.2095
400
380
360
340
320
300
280
260
240

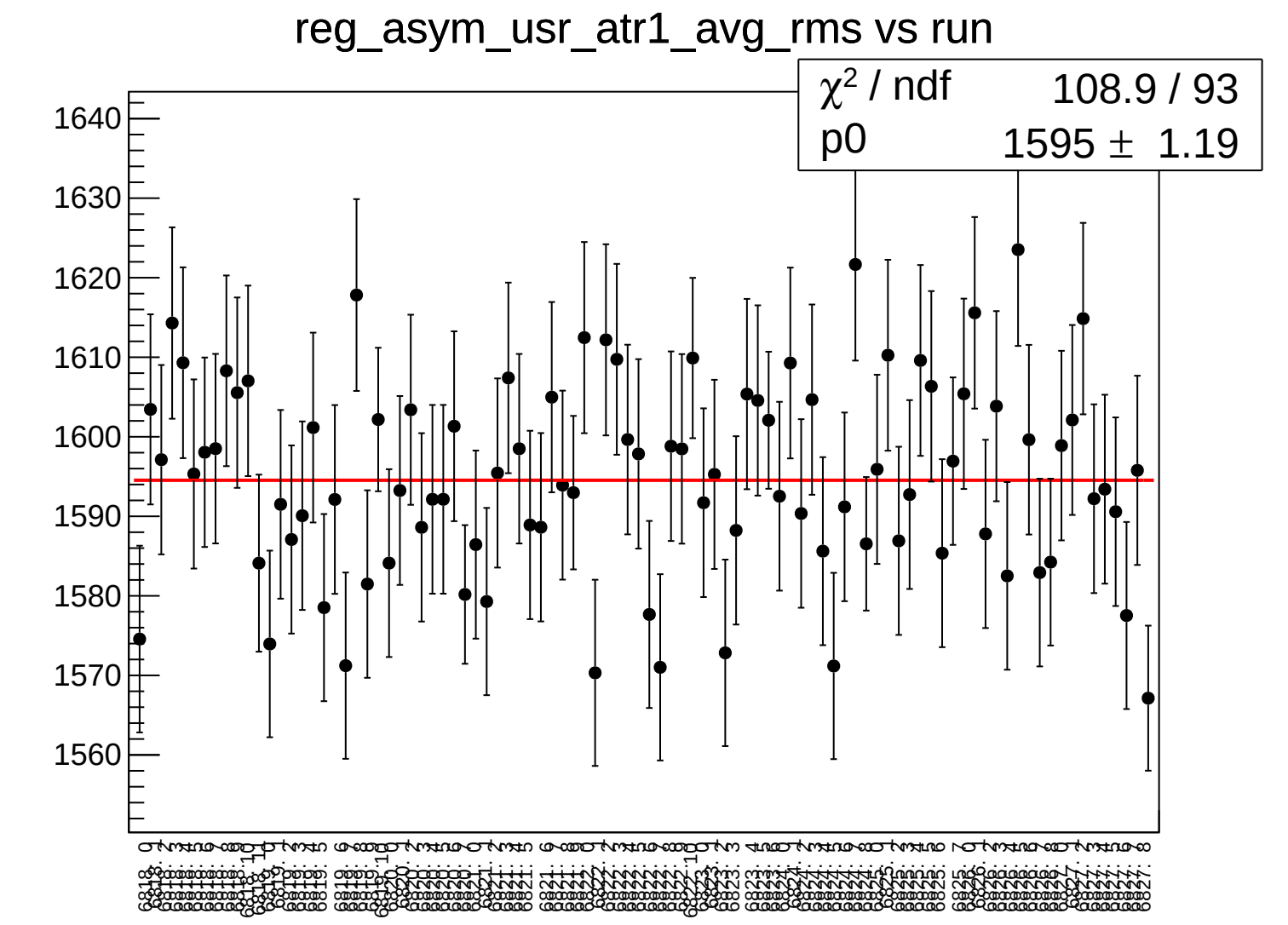

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.22 / 93
p0 −1.09e−13 ± 5.329e−14
pull
Entries 94
Mean 35.3
Std Dev 39.07

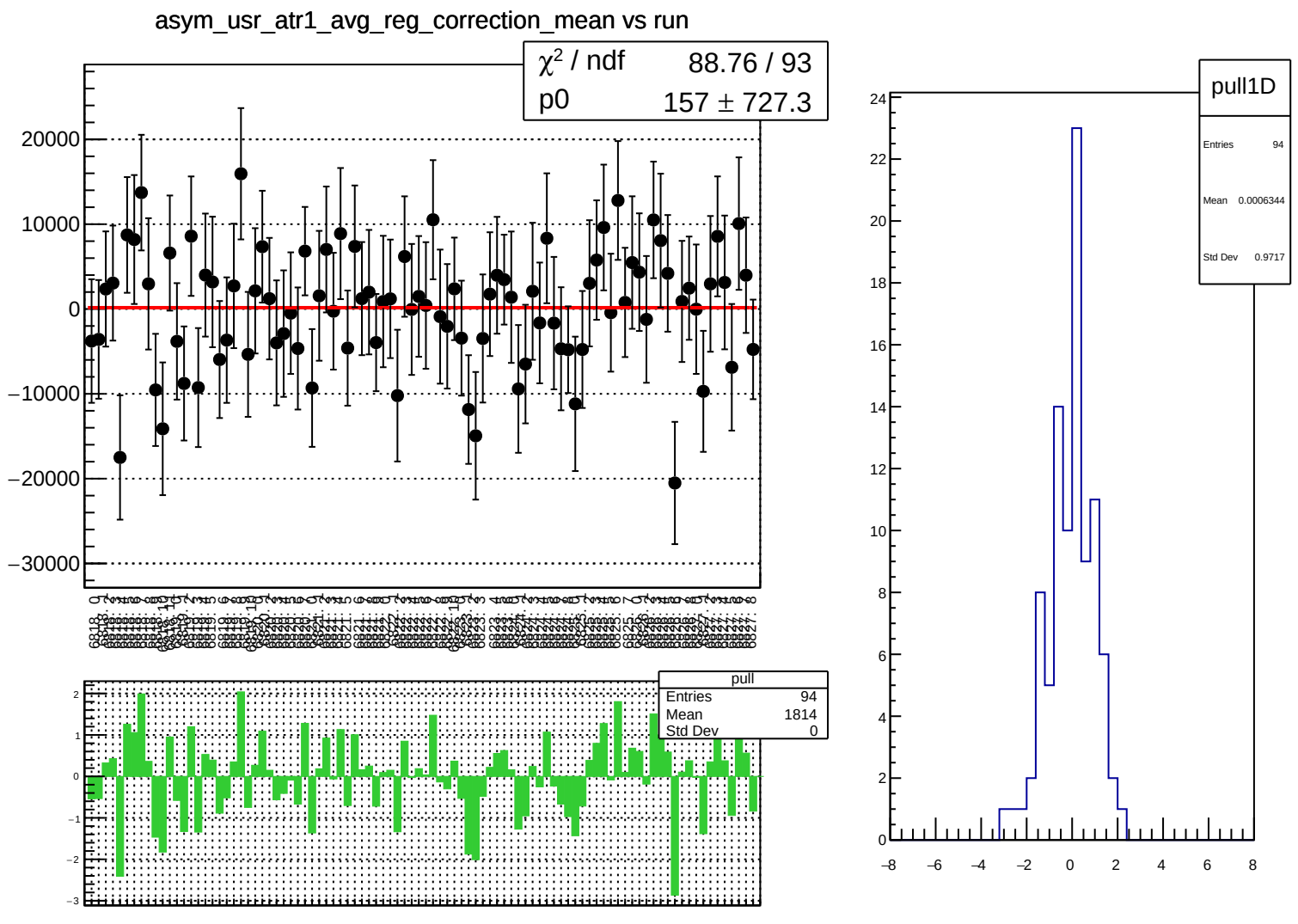

pull1D
Entries 94
Mean −0.1359
Std Dev 0.9592

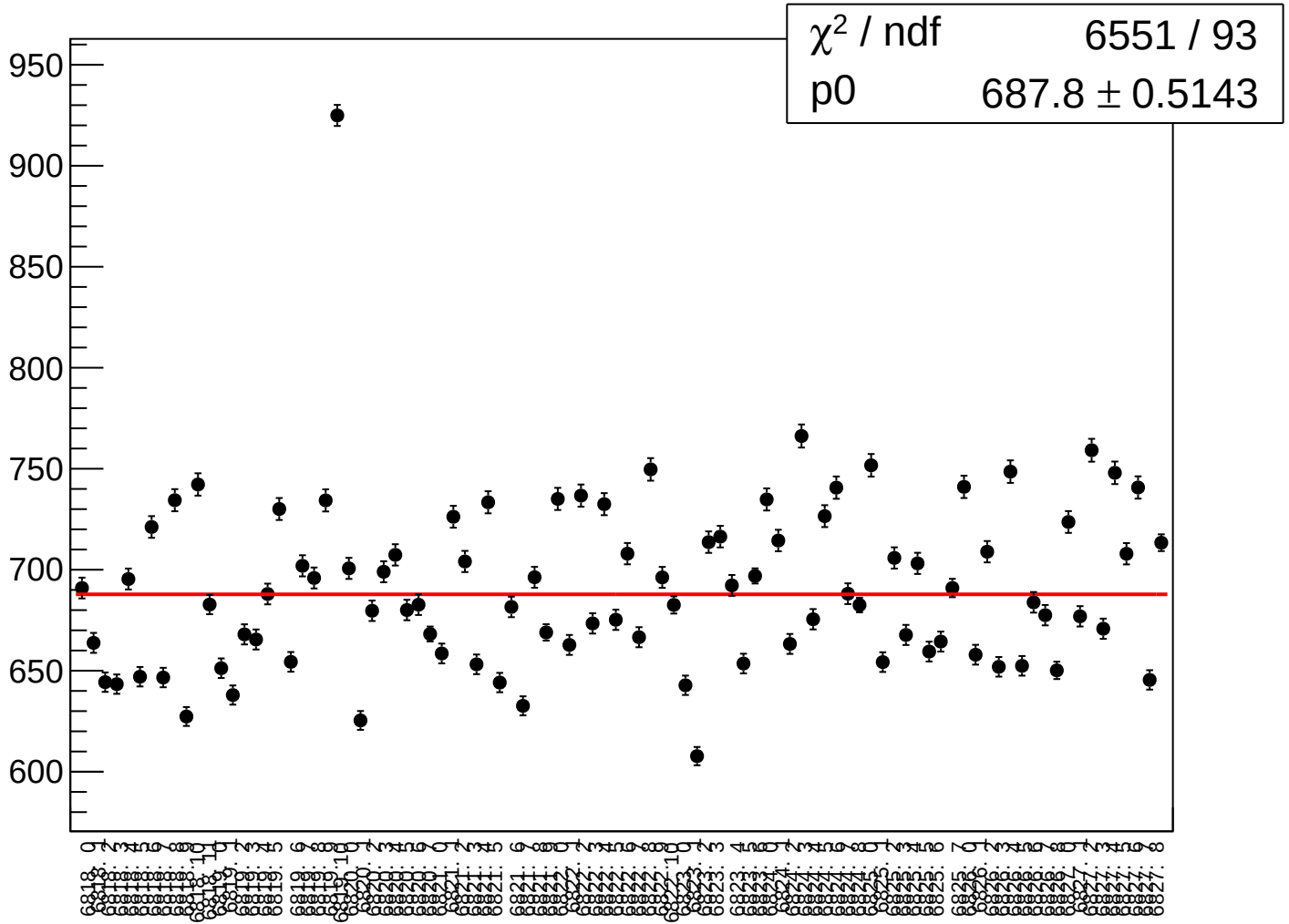

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.133e+05 / 93
p0 3.734e−11 ± 3.768e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

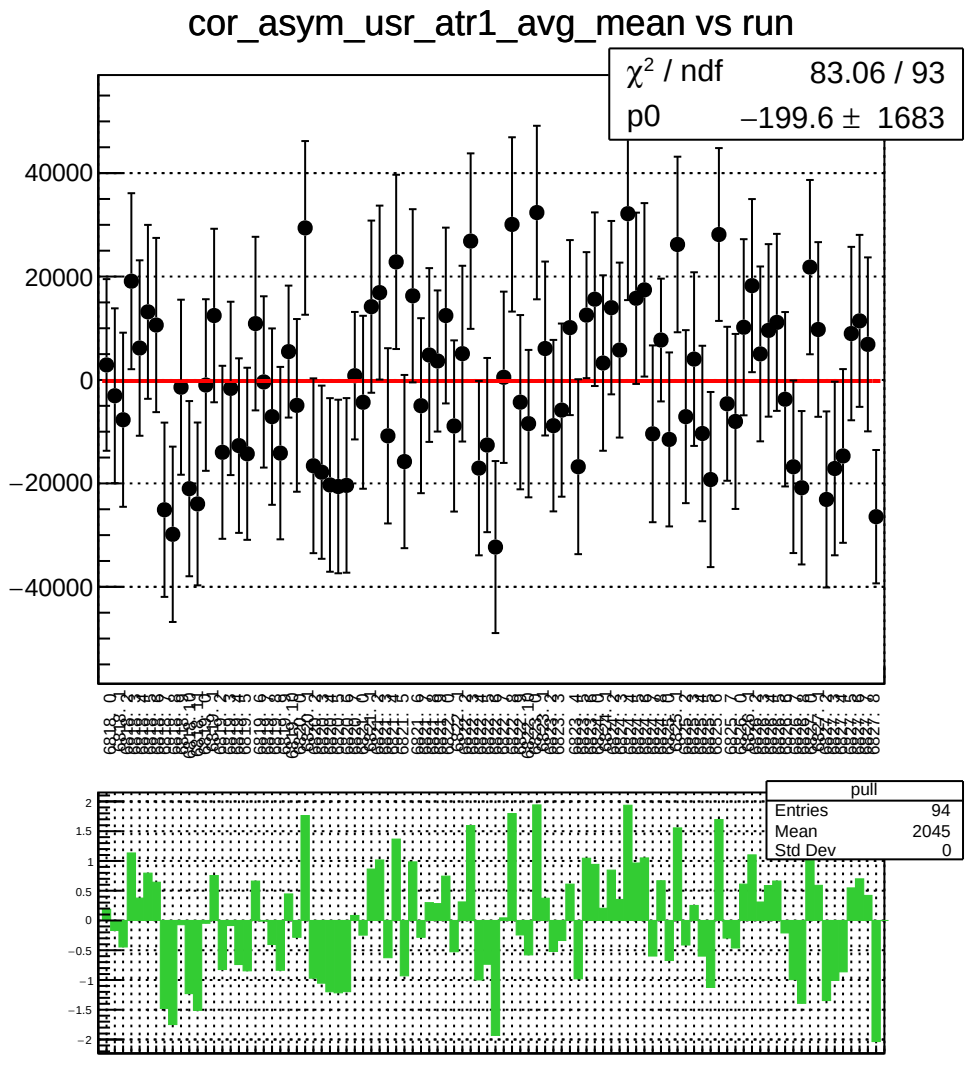

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.07 / 93
p0 −199 ± 1683
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2046
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

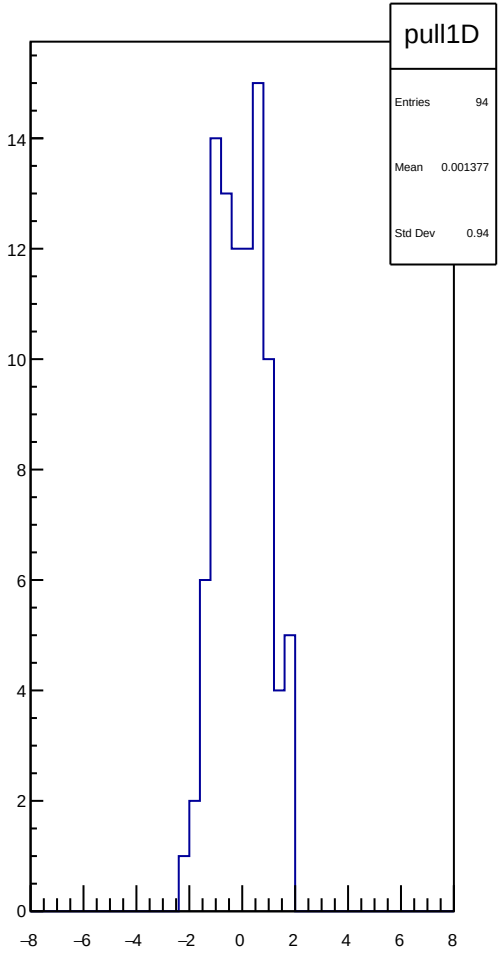

pull1D
Entries 94
Mean 0.001377
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

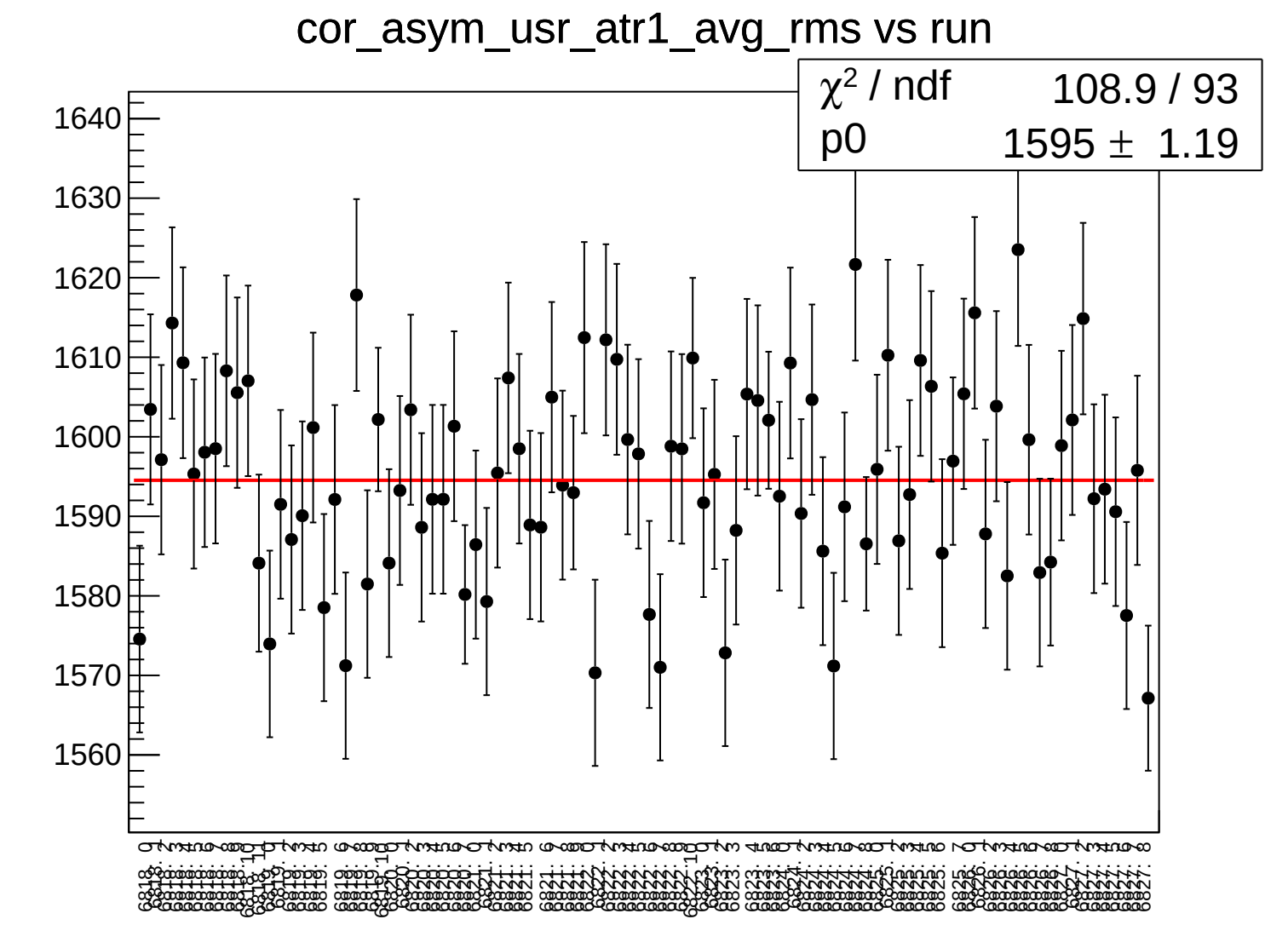

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 93
p0 1595 ± 1.19
1640
1630
1620
1610
1600
1590
1580
1570
1560

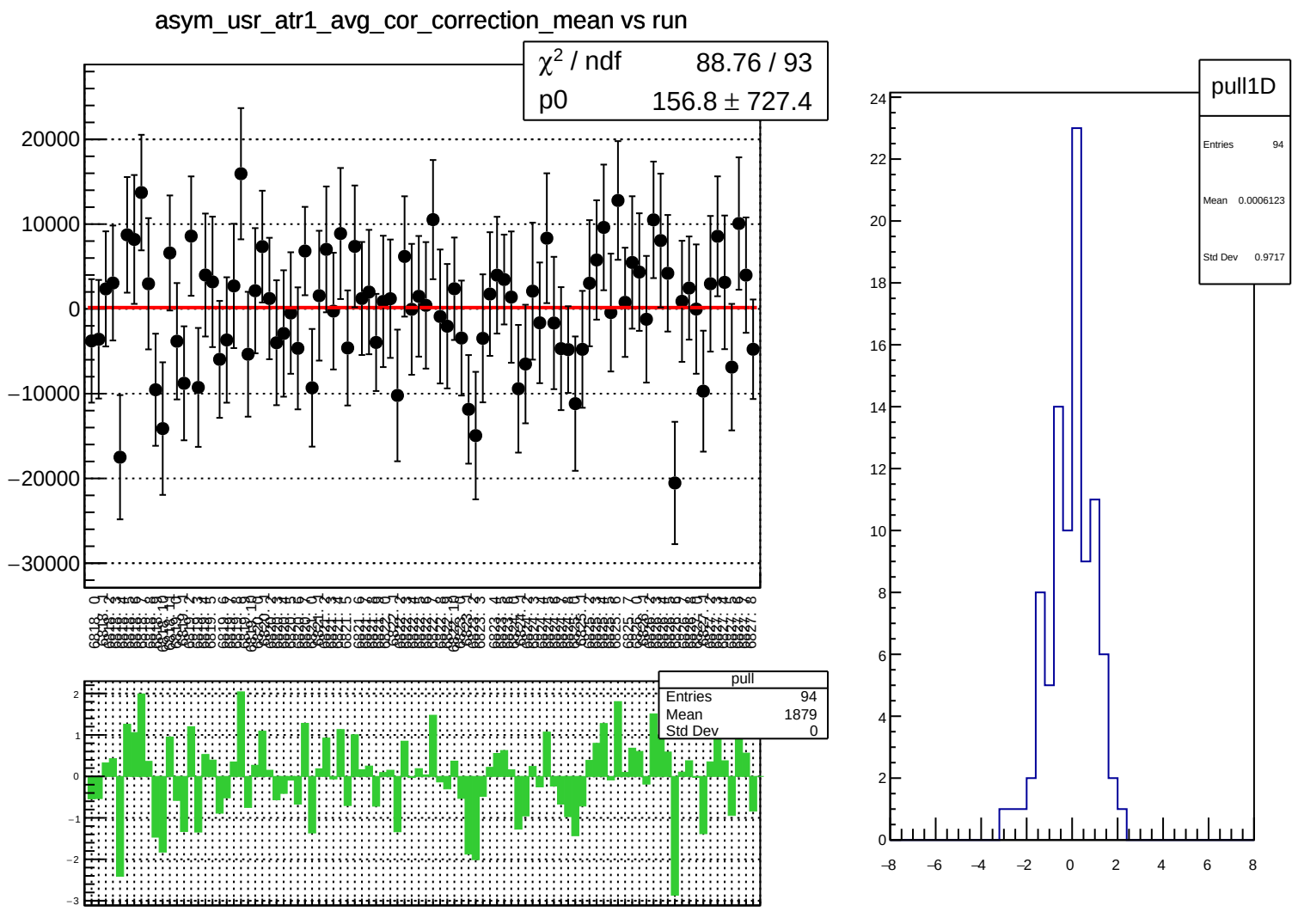

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 88.76 / 93
p0 157 ± 727.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1814
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0006344
Std Dev 0.9717
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

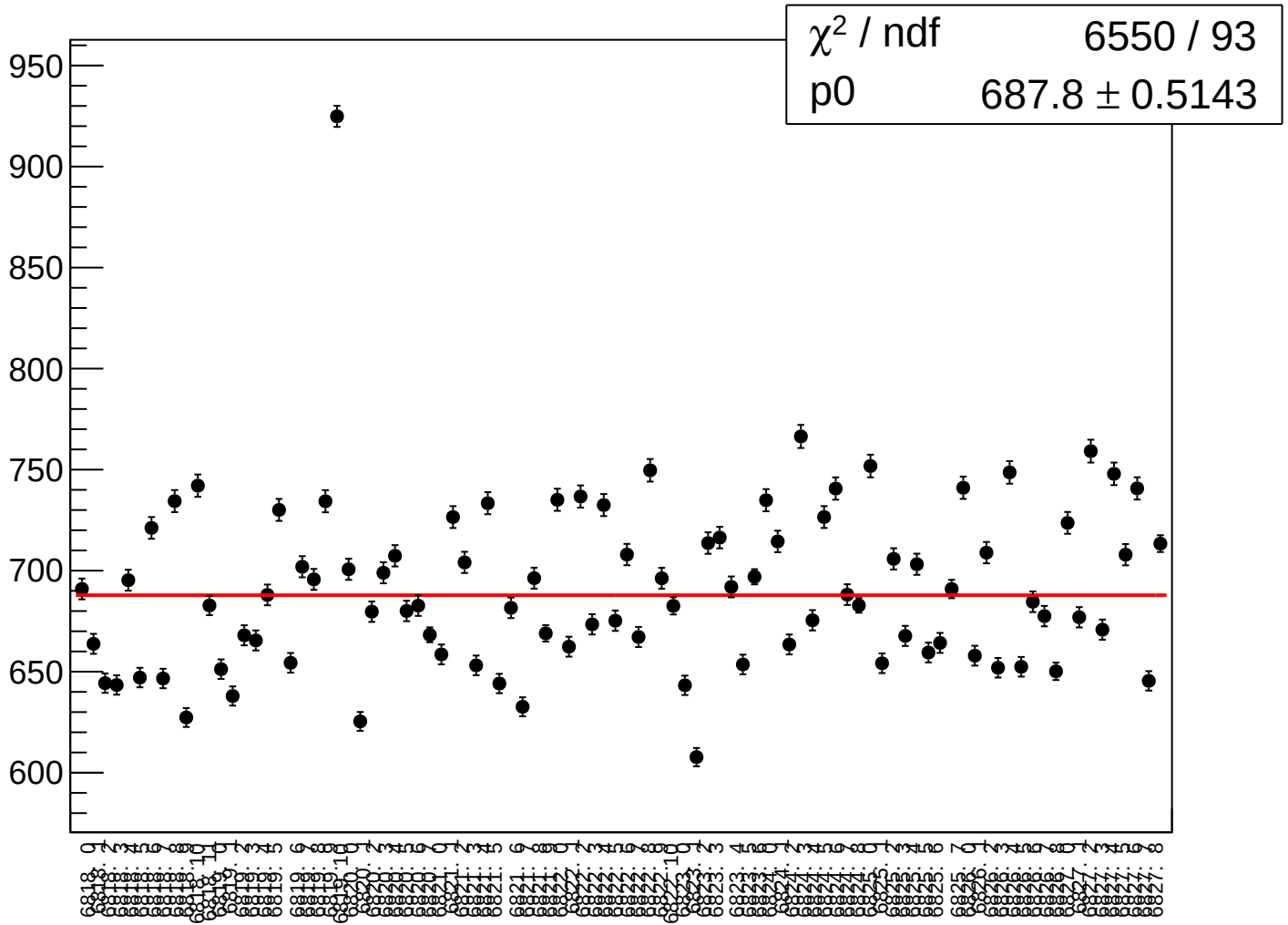

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 6551 / 93
p0 687.8 ± 0.5143
950
900
850
800
750
700
650
600

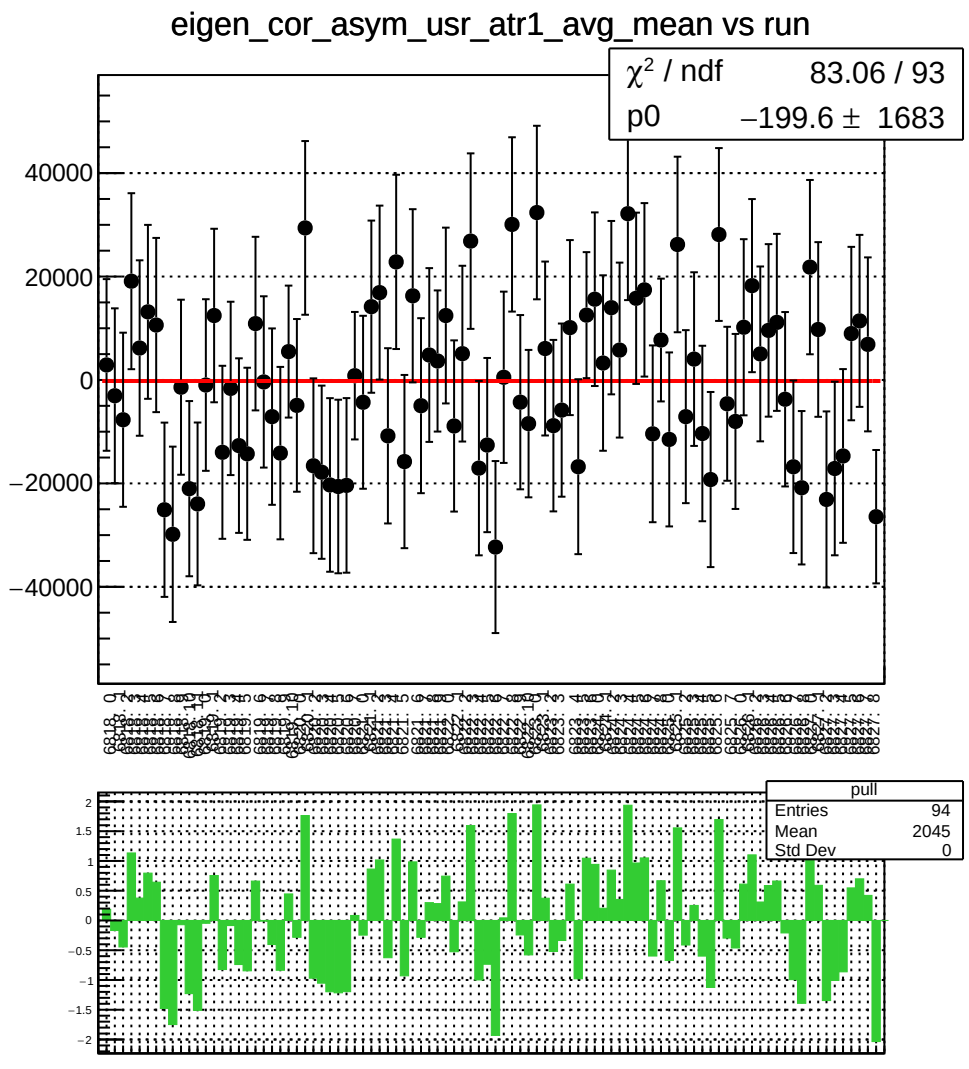

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.06 / 93
p0 −199.6 ± 1683
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2045
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

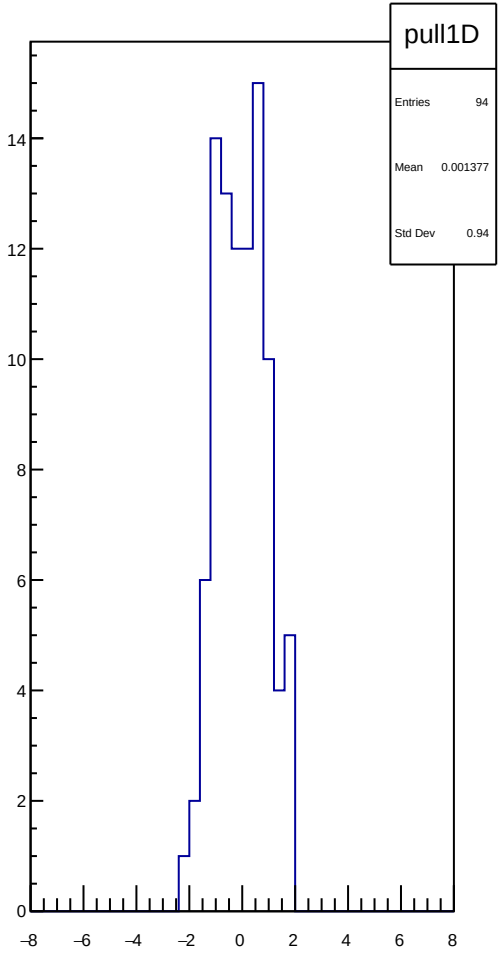

pull1D
Entries 94
Mean 0.001377
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

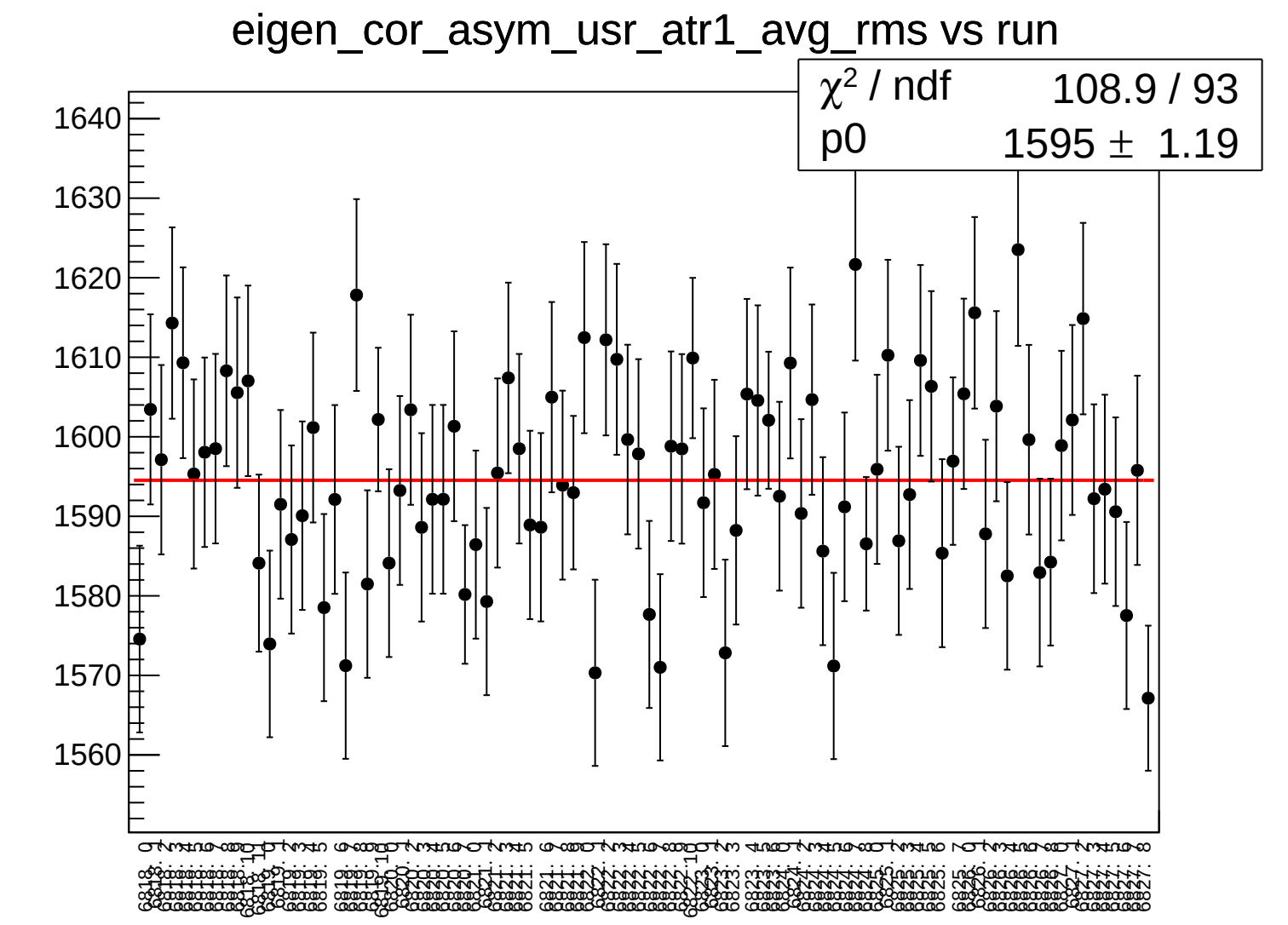

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 93
p0 1595 ± 1.19
1640
1630
1620
1610
1600
1590
1580
1570
1560

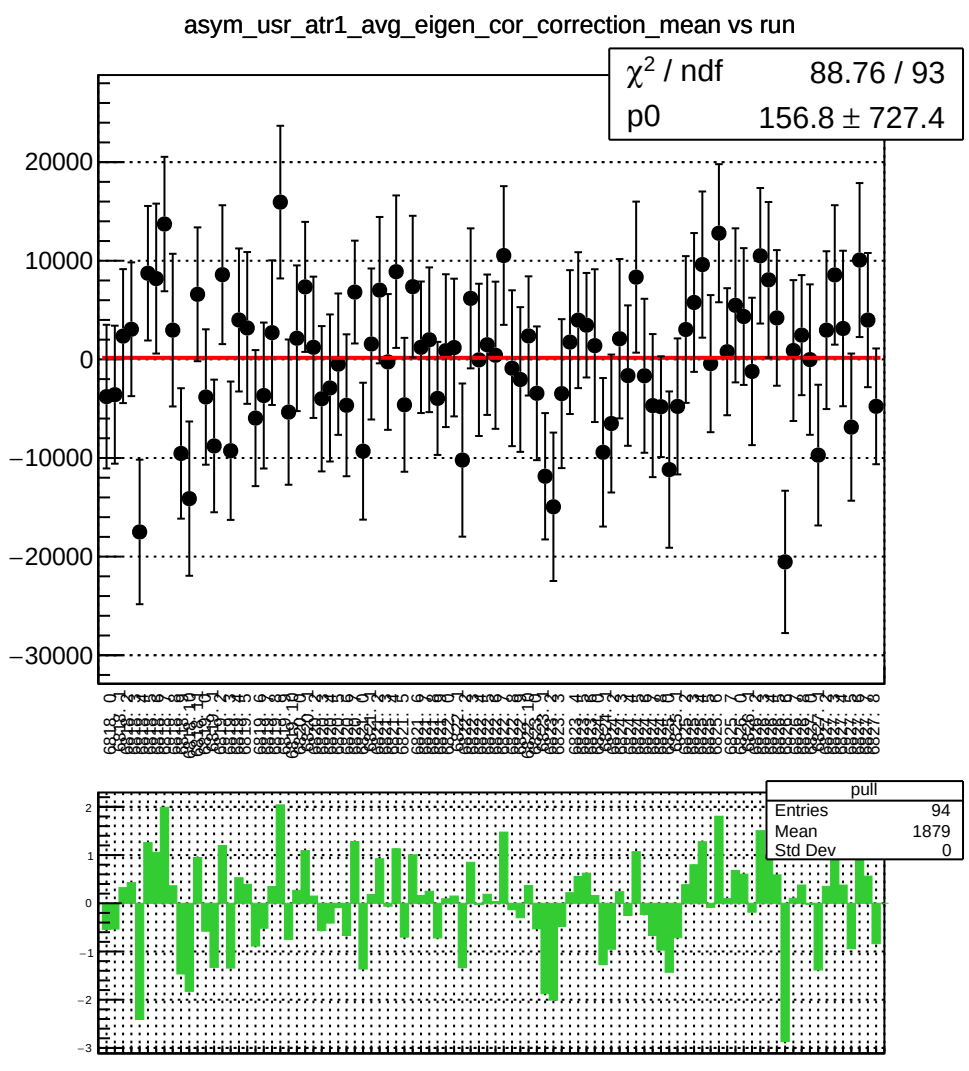

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 88.76 / 93
p0 156.8 ± 727.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1879
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0006123
Std Dev 0.9717
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

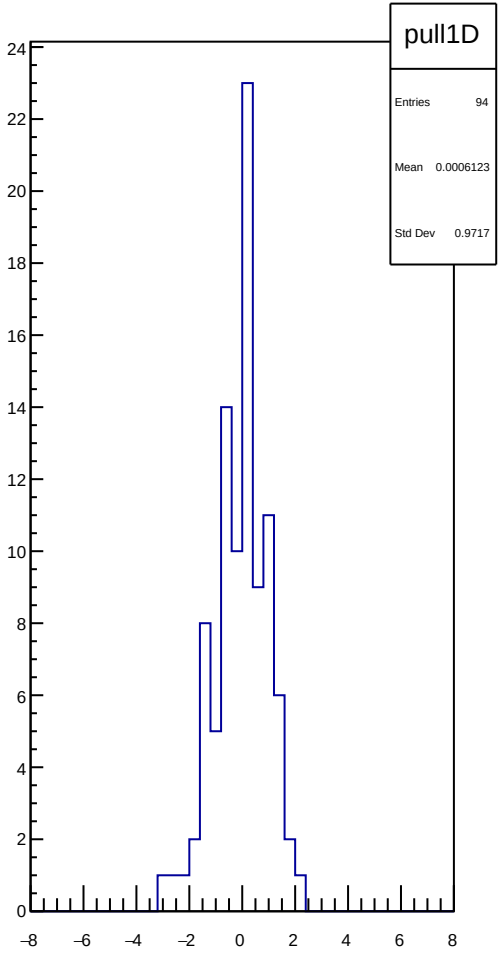

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 6550 / 93
p0 687.8 ± 0.5143
950
900
850
800
750
700
650
600

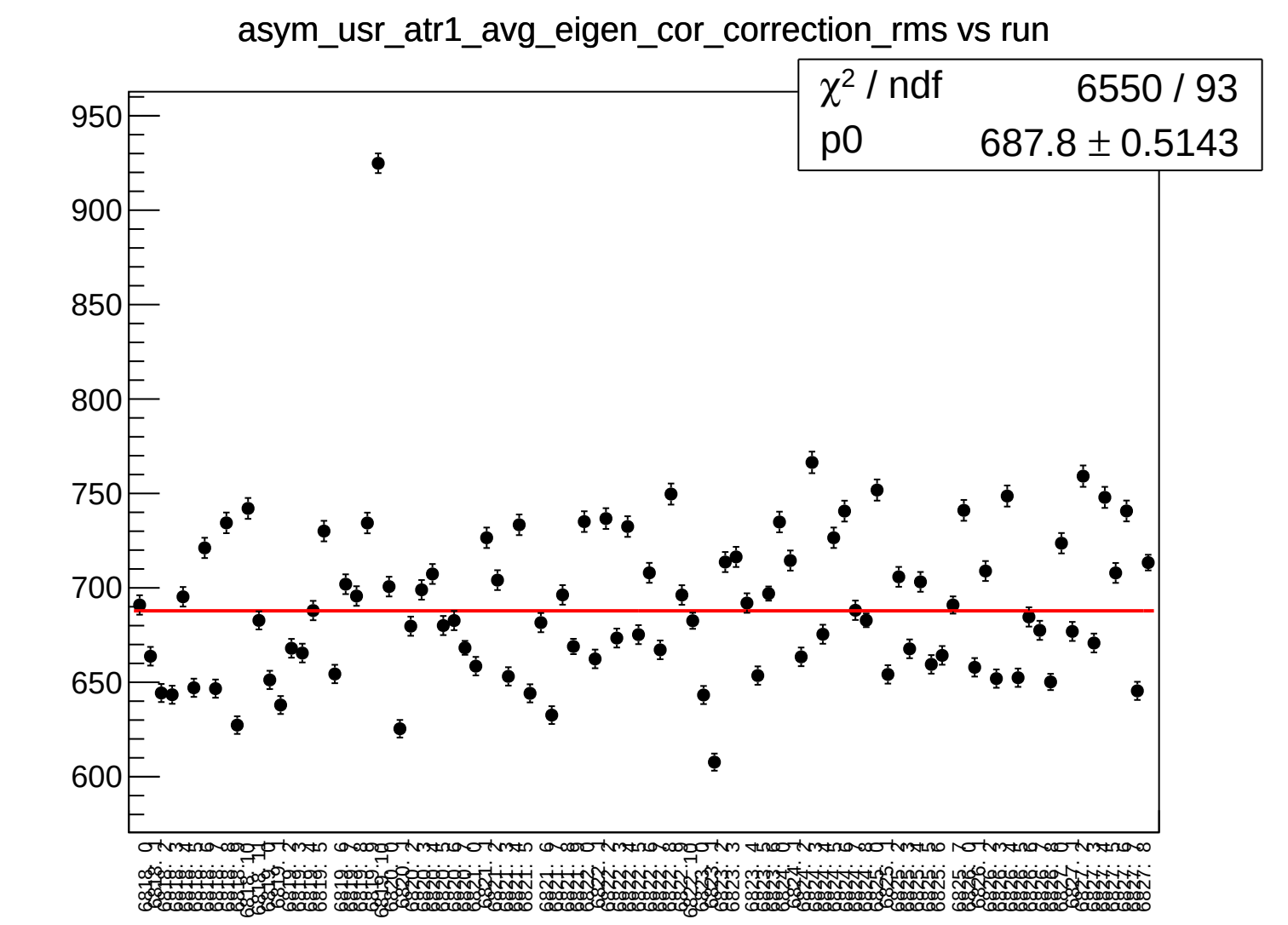

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 83.06 / 93
p0 −199.6 ± 1683
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2045
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

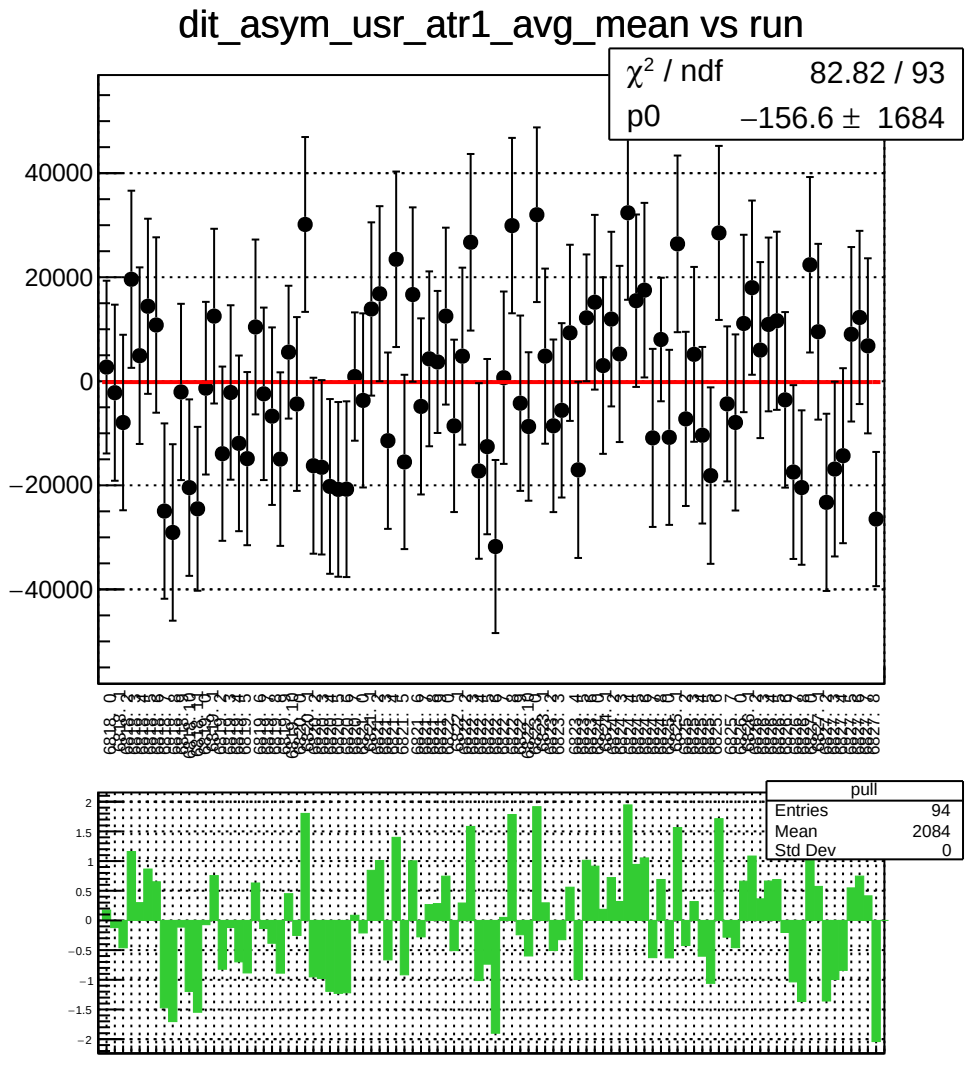

pull1D
Entries 94
Mean 0.001377
Std Dev 0.94
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

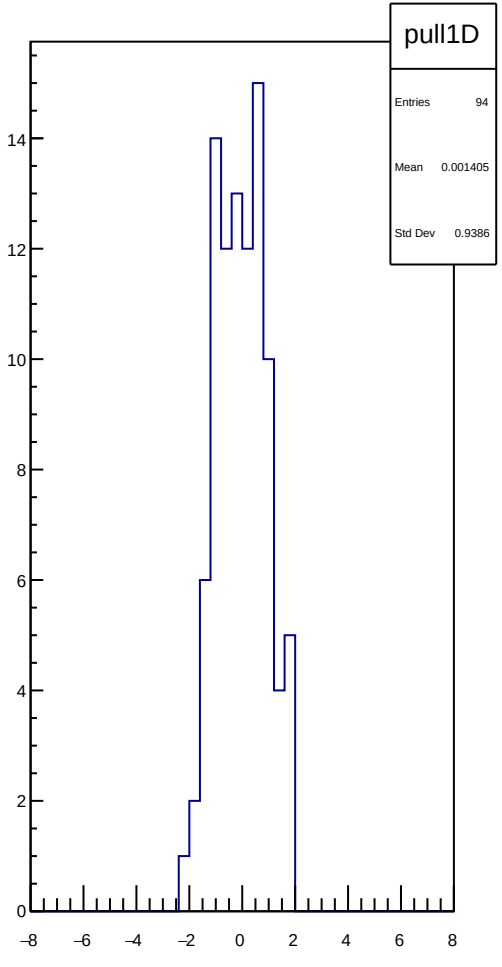

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 108.9 / 93
p0 1595 ± 1.19
1640
1630
1620
1610
1600
1590
1580
1570
1560

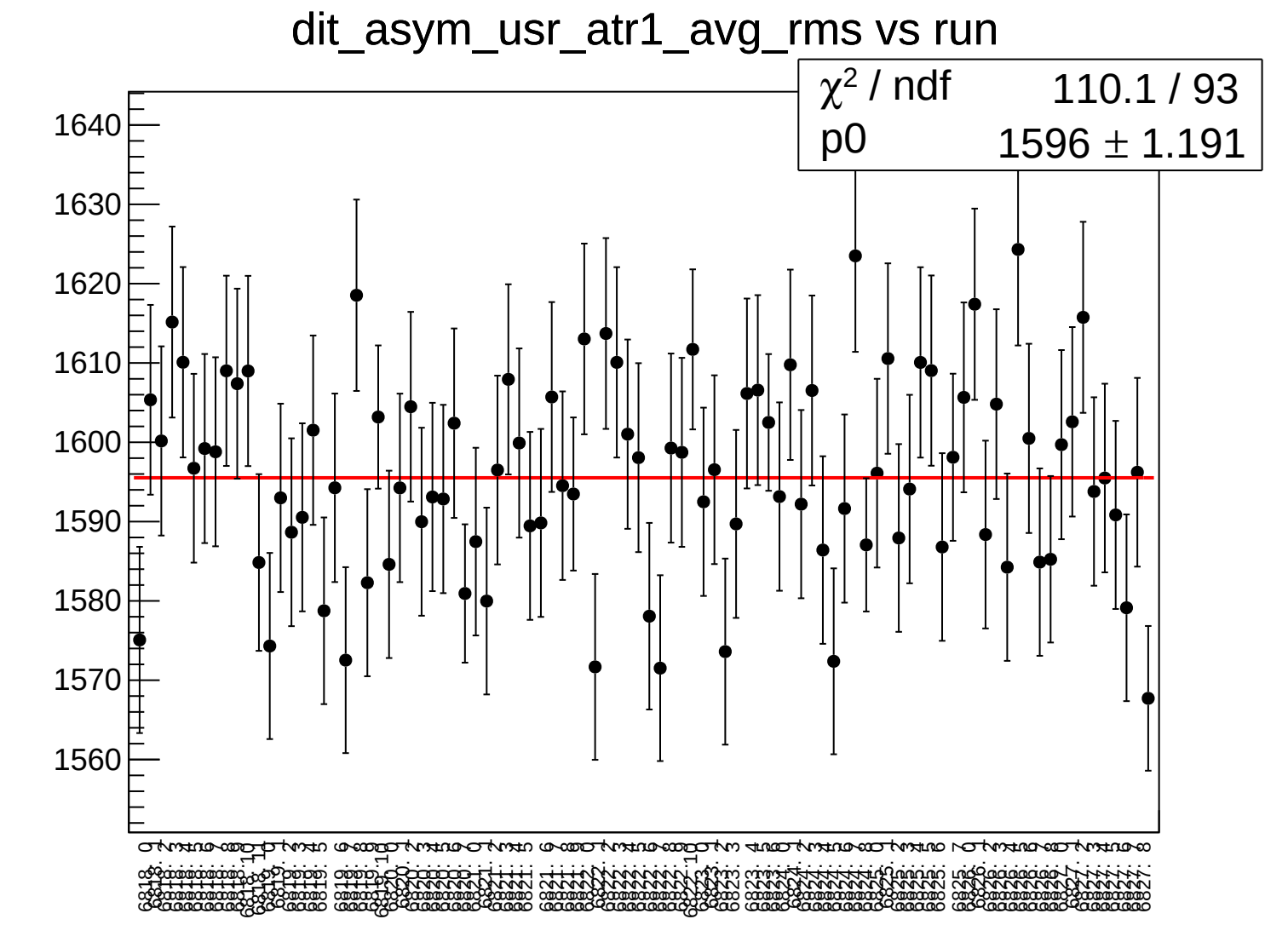

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.76 / 93
p0 156.8 ± 727.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 1879
Std Dev 0
2
1
0
−1
−2
−3

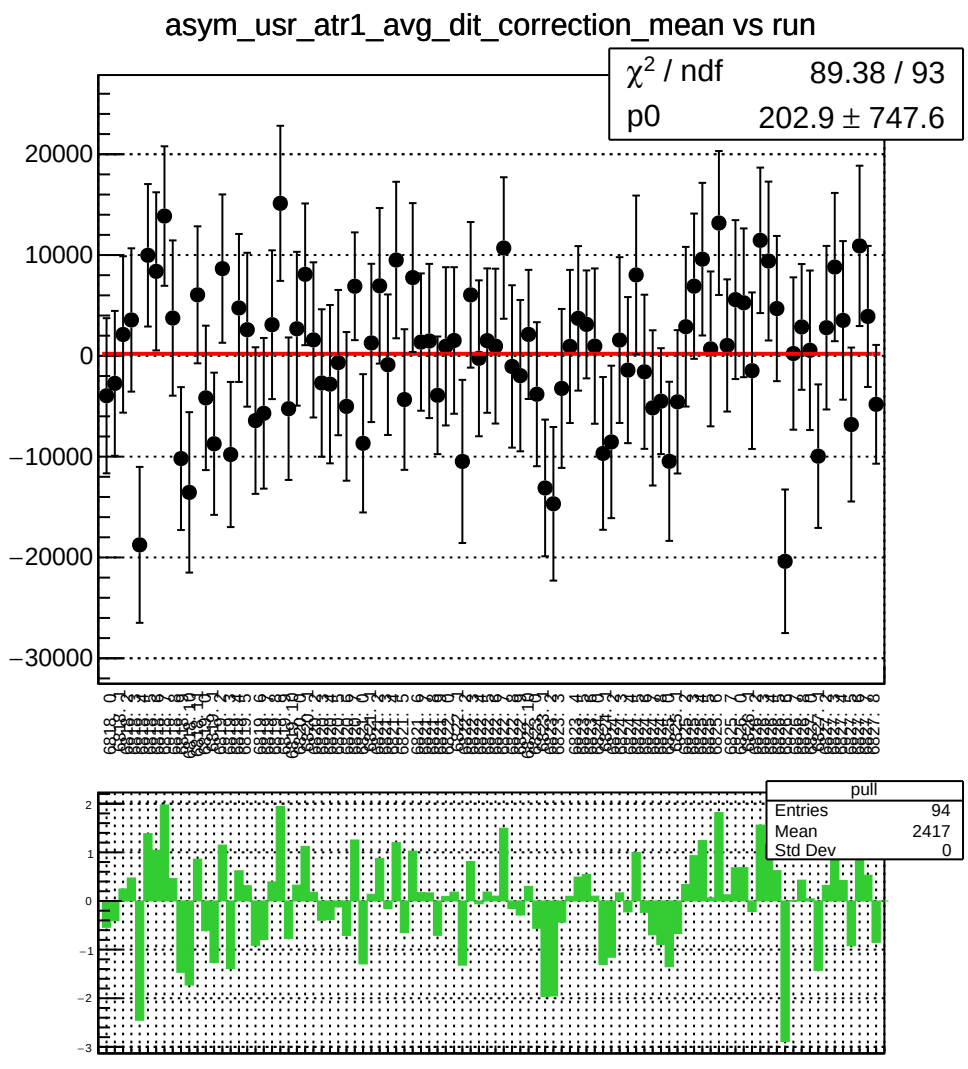

pull1D
Entries 94
Mean 0.0006123
Std Dev 0.9717
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

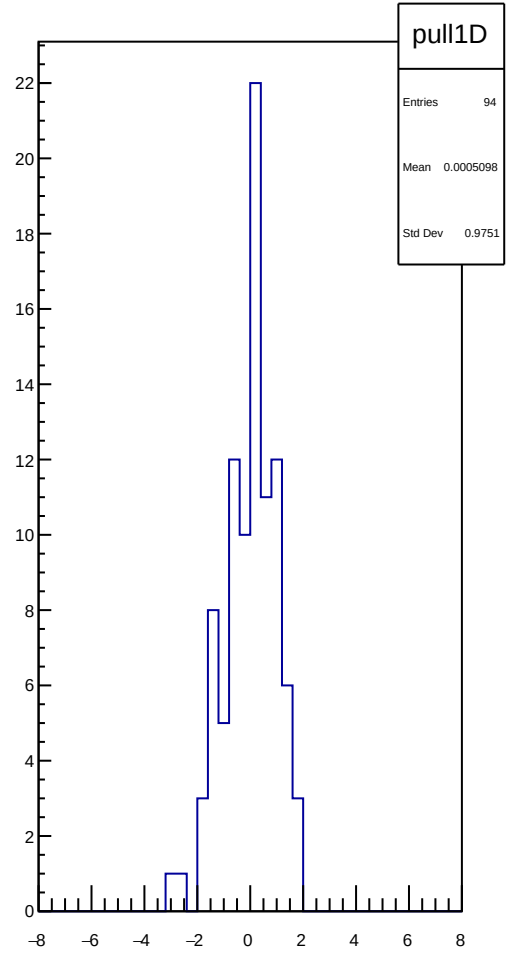

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6550 / 93
p0 687.8 ± 0.5143
950
900
850
800
750
700
650
600

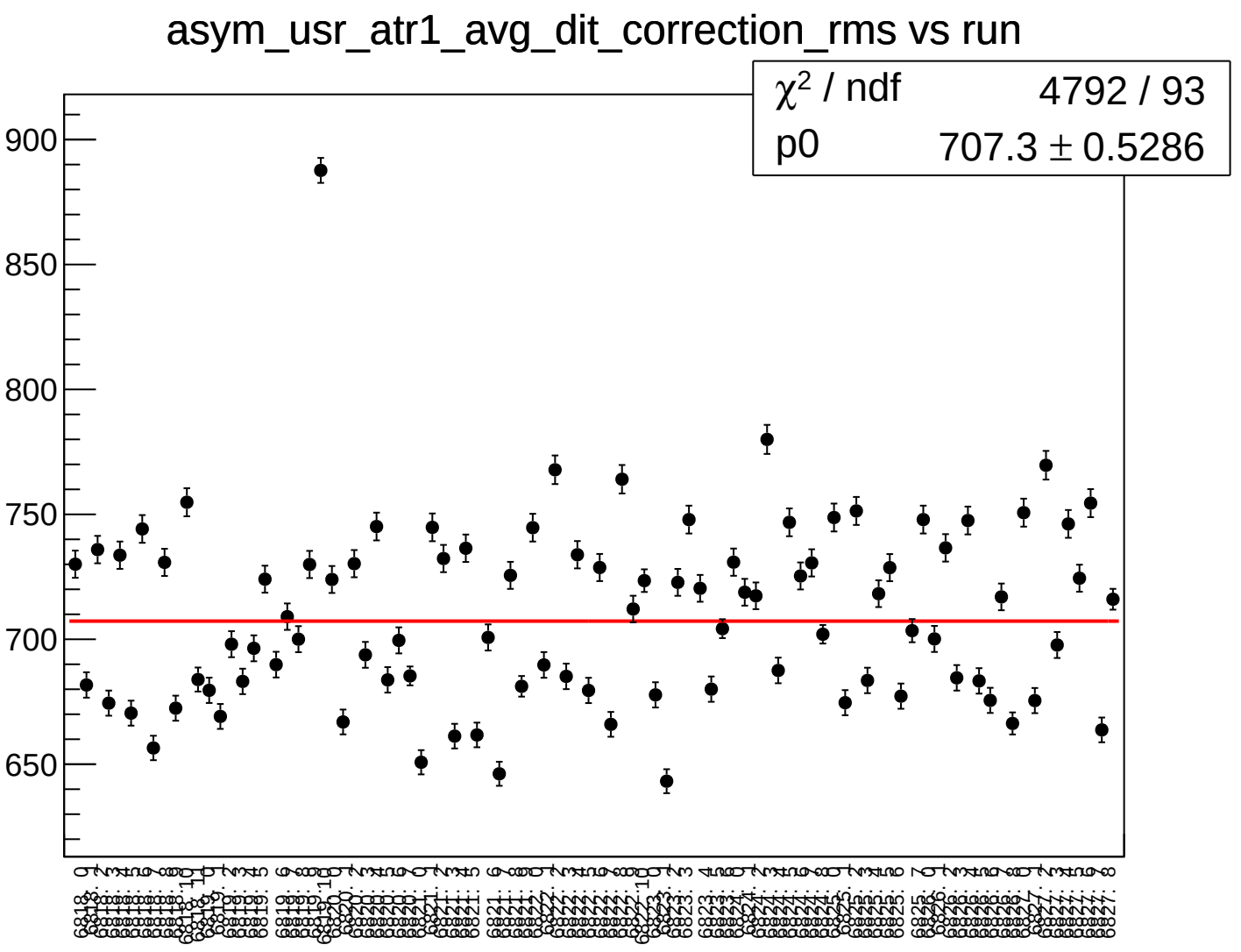

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.82 / 93
p0 −156.6 ± 1684
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2084
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

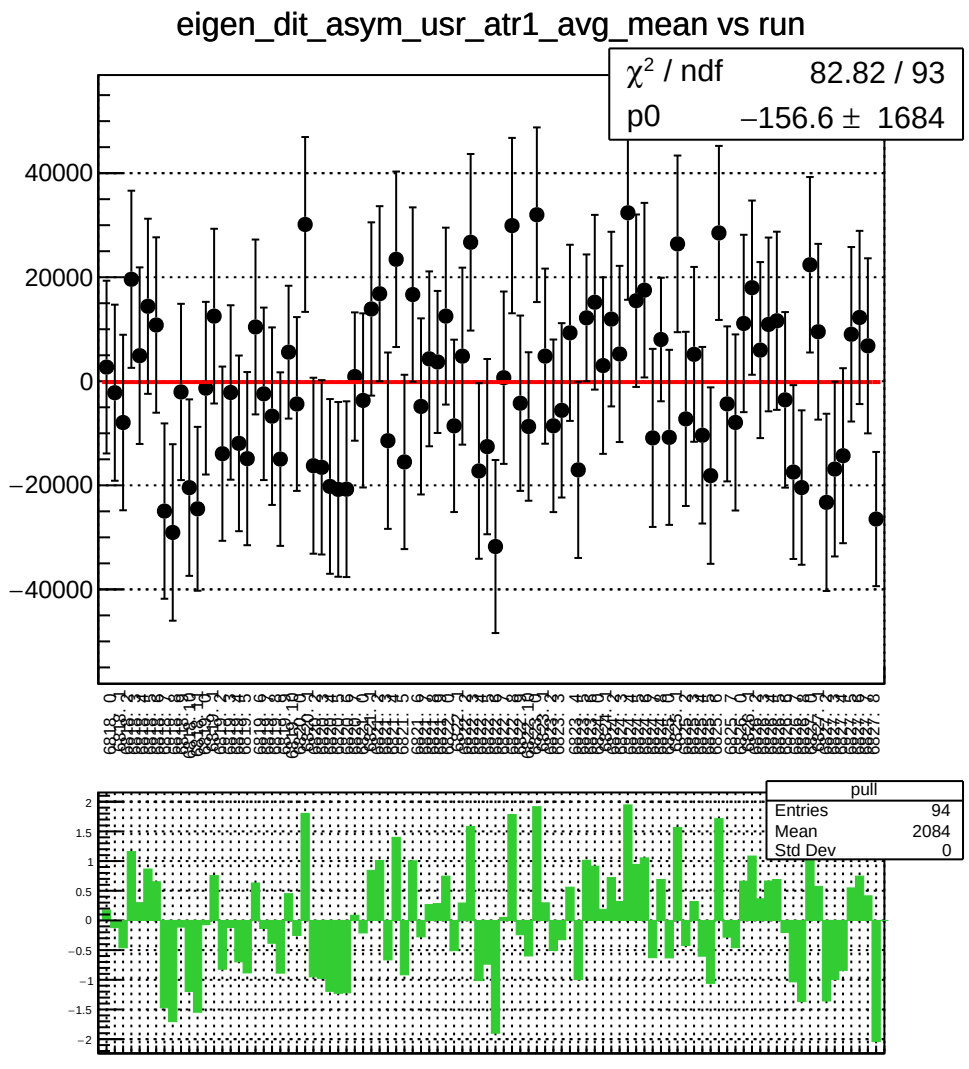

pull1D
Entries 94
Mean 0.001405
Std Dev 0.9386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

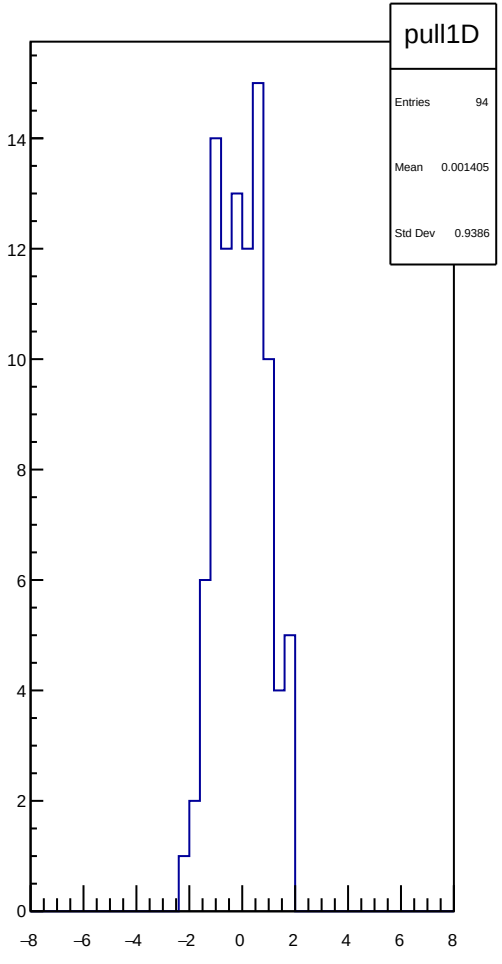

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 110.1 / 93
p0 1596 ± 1.191
1640
1630
1620
1610
1600
1590
1580
1570
1560

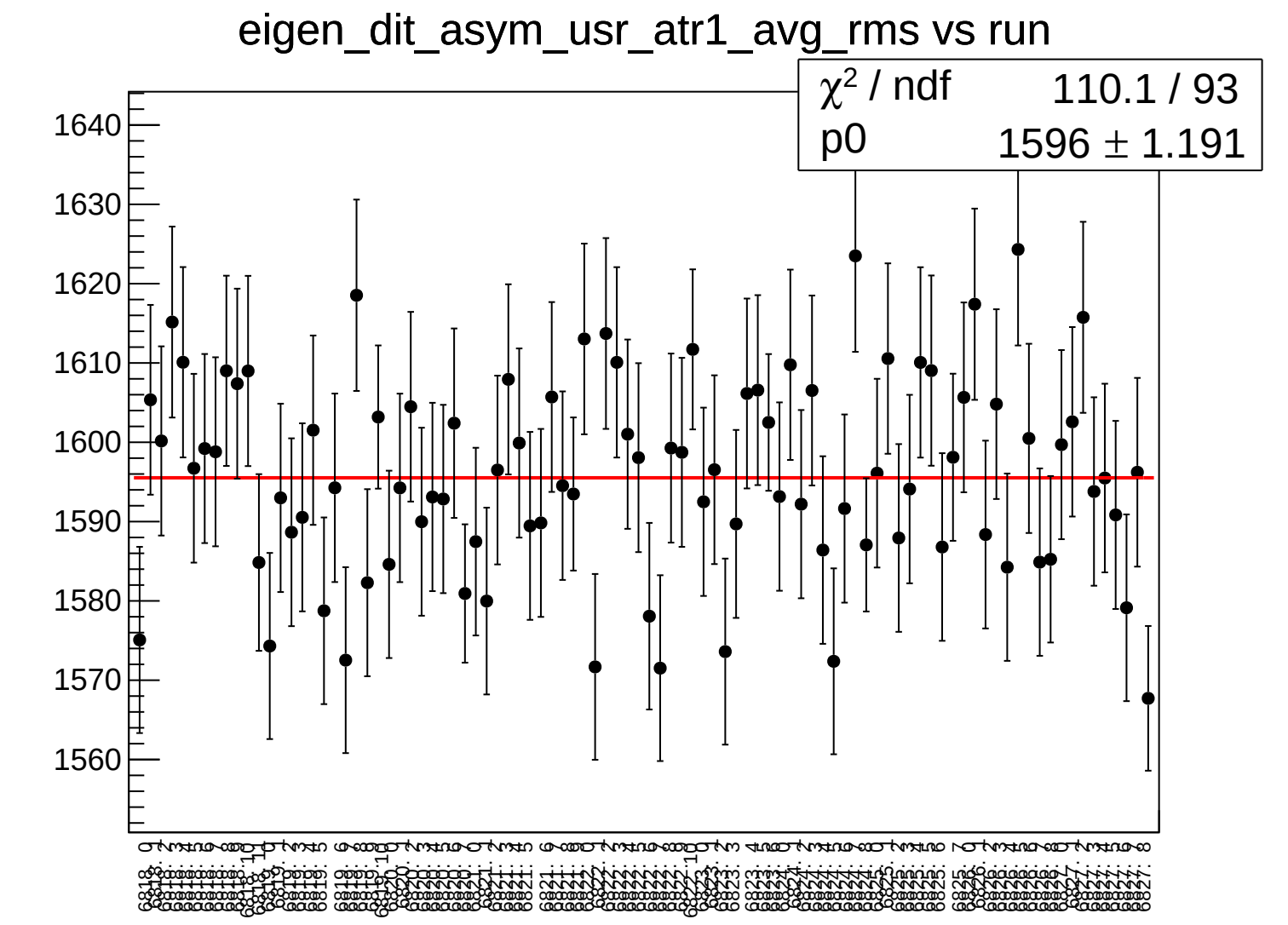

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 89.38 / 93
p0 202.9 ± 747.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 2417
Std Dev 0
2
1
0
−1
−2
−3

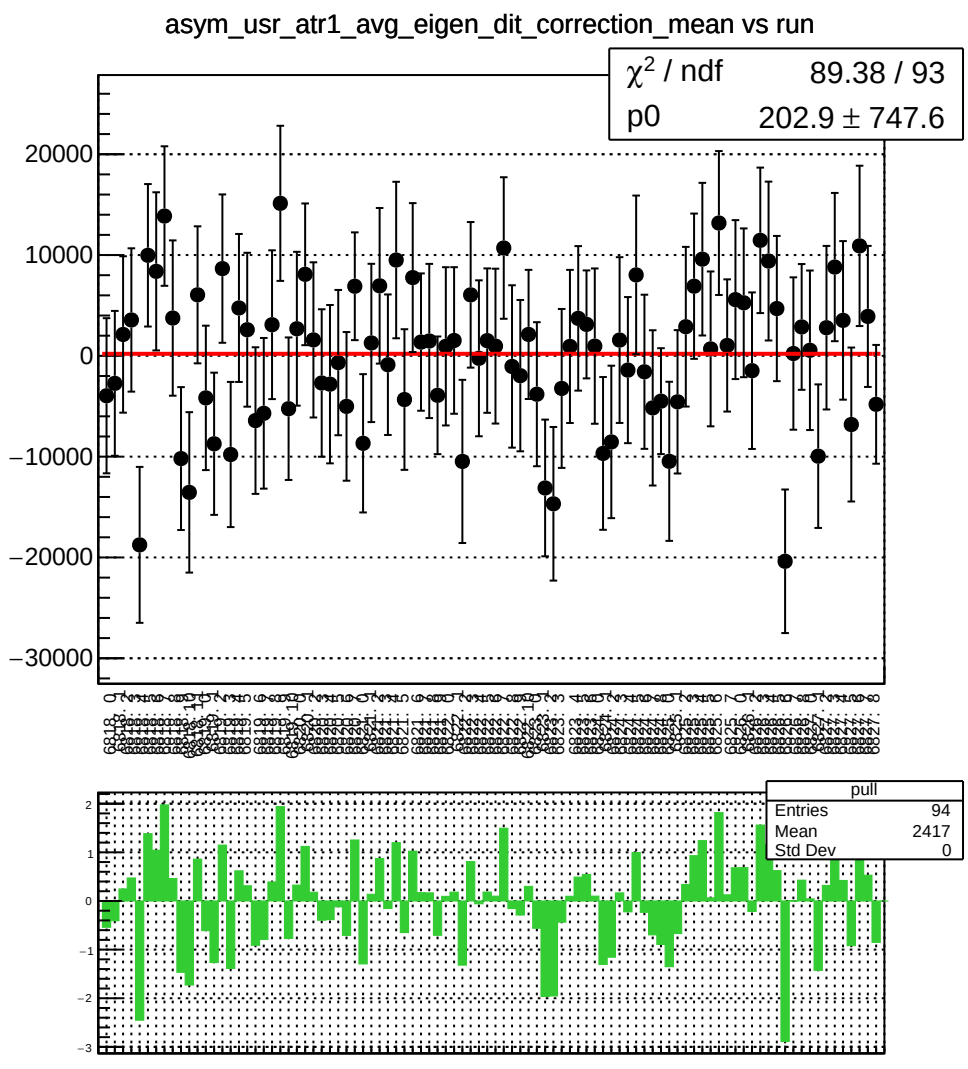

pull1D
Entries 94
Mean 0.0005098
Std Dev 0.9751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

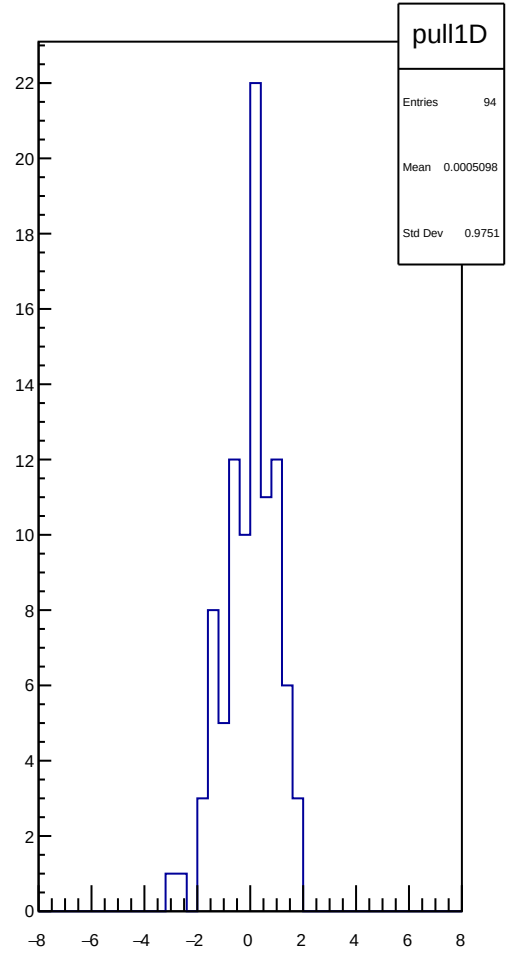

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 4792 / 93
p0 707.3 ± 0.5286
900
850
800
750
700
650

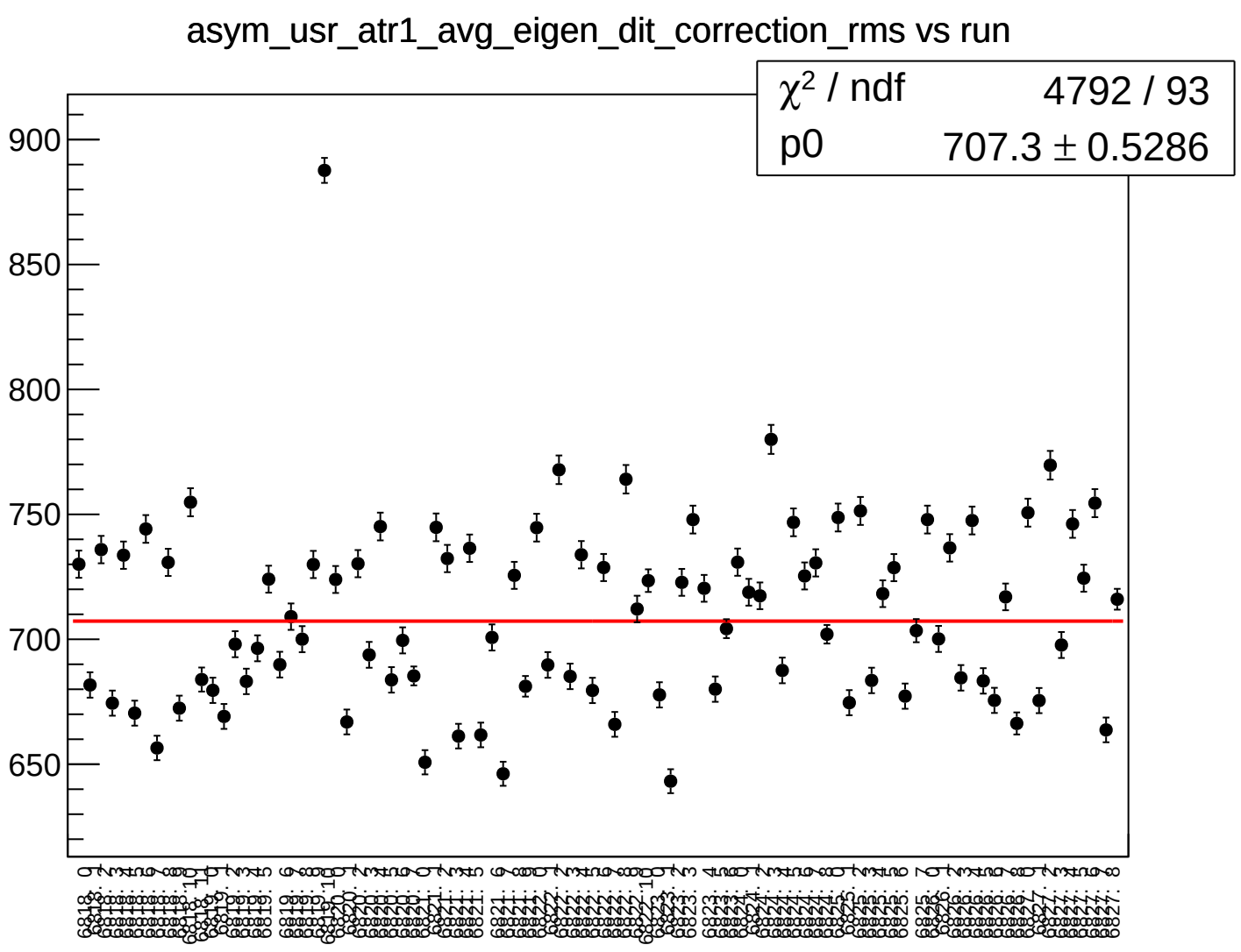

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 82.82 / 93
p0 −156.6 ± 1684
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 2084
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

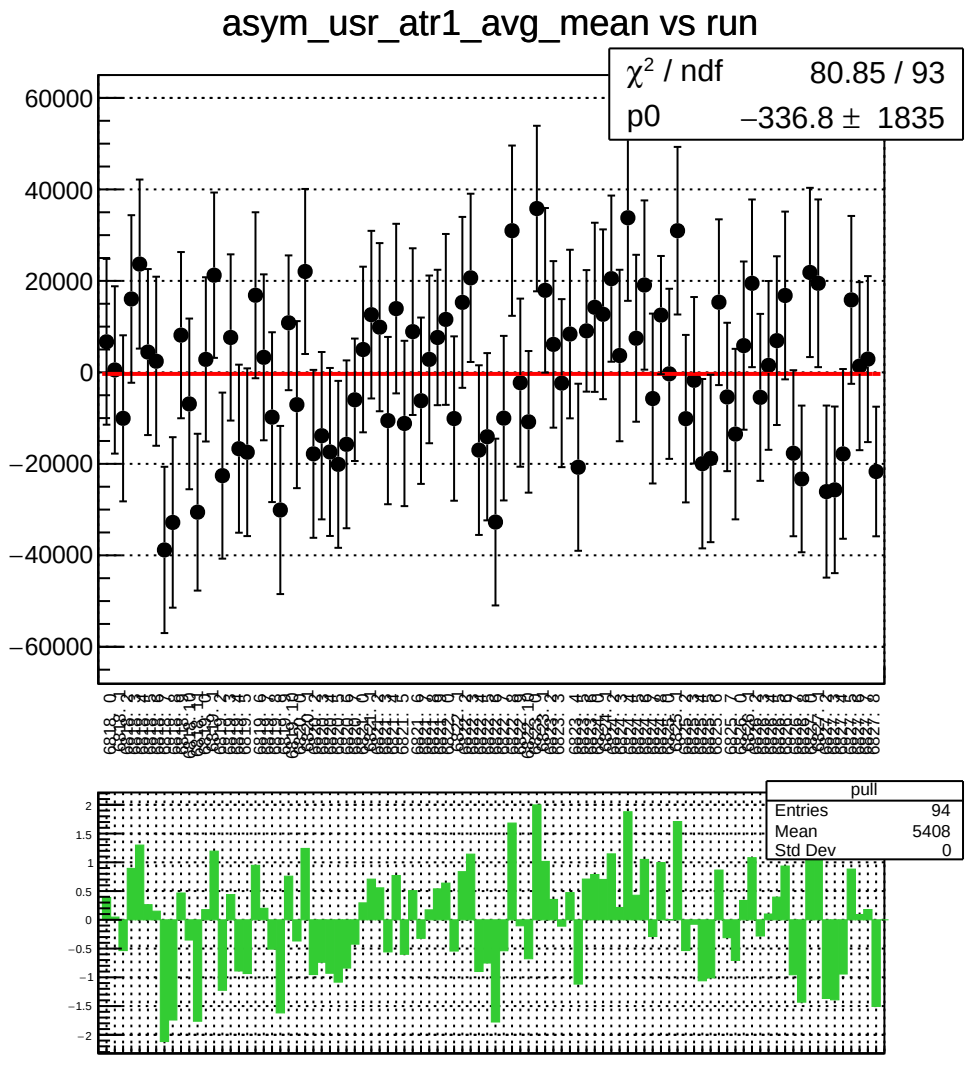

pull1D
Entries 94
Mean 0.001405
Std Dev 0.9386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

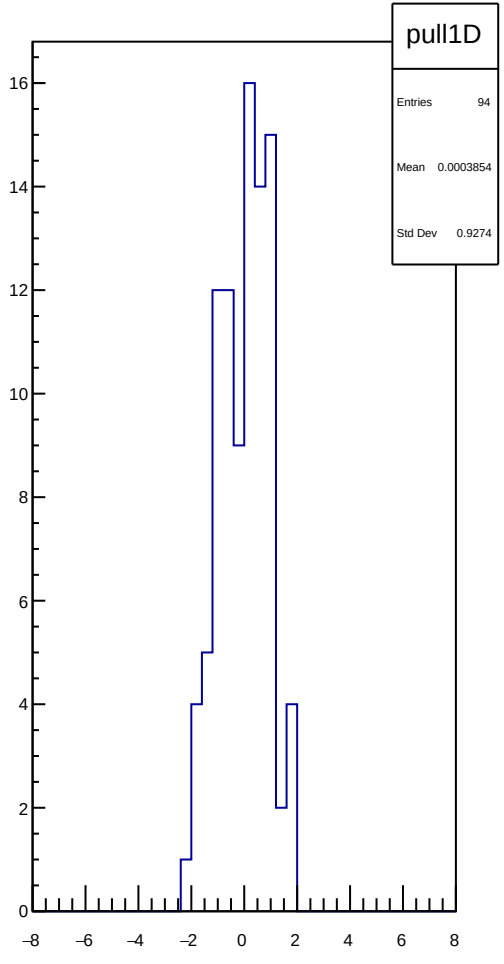

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 110.1 / 93
p0 1596 ± 1.191
1640
1630
1620
1610
1600
1590
1580
1570
1560

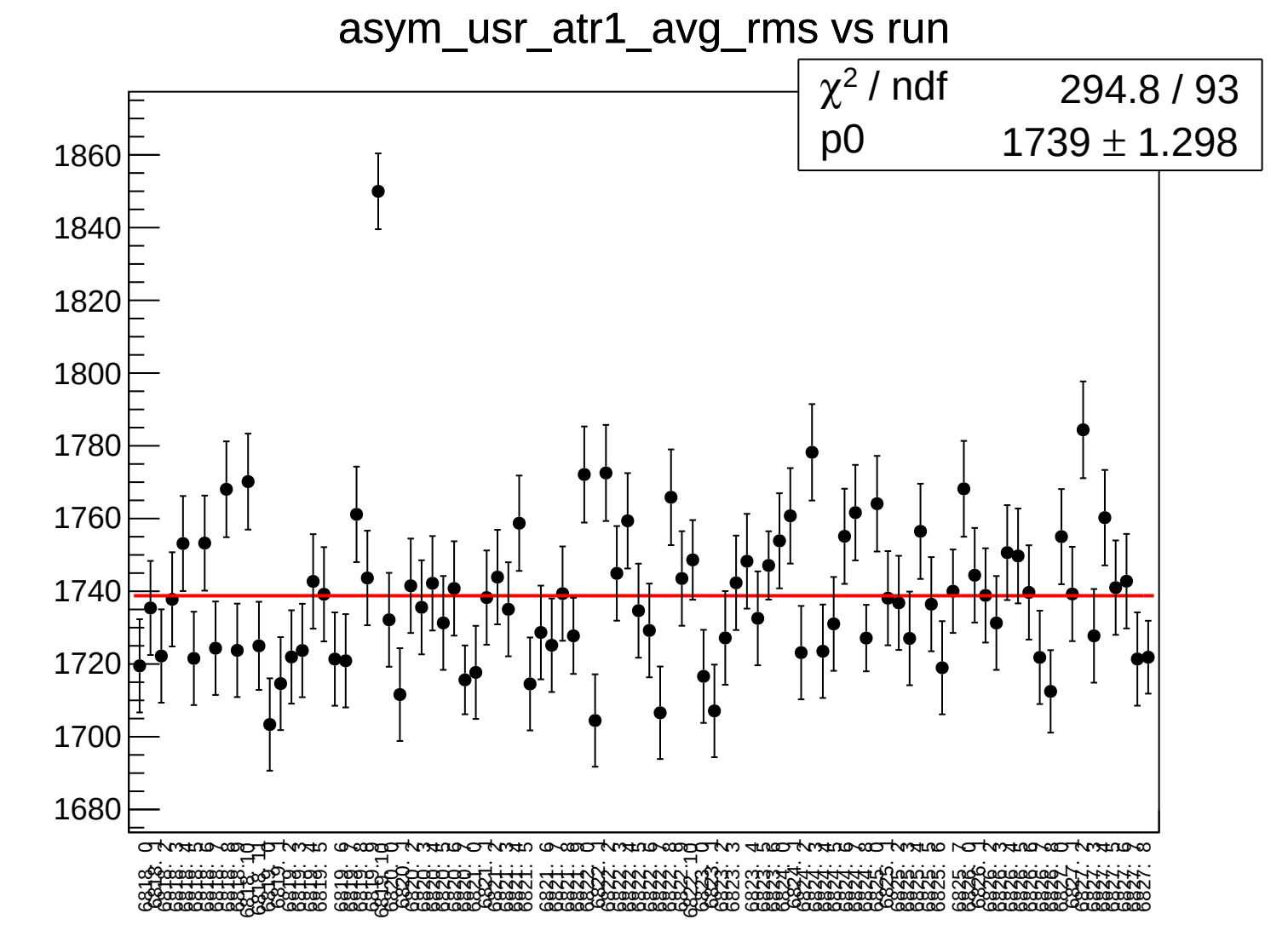

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.38 / 93
p0 202.9 ± 747.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean 2417
Std Dev 0
2
1
0
−1
−2
−3

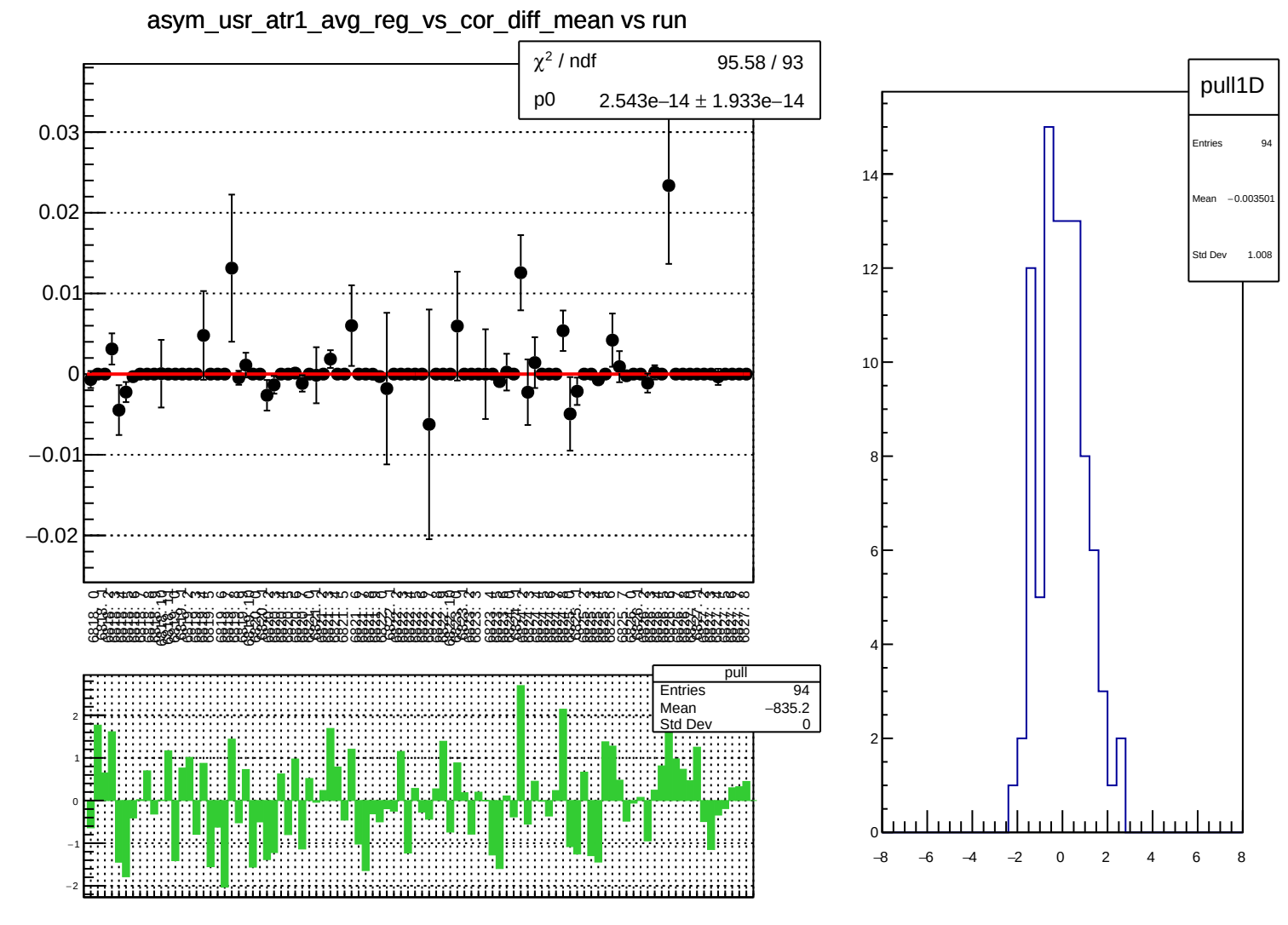

pull1D
Entries 94
Mean 0.0005098
Std Dev 0.9751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

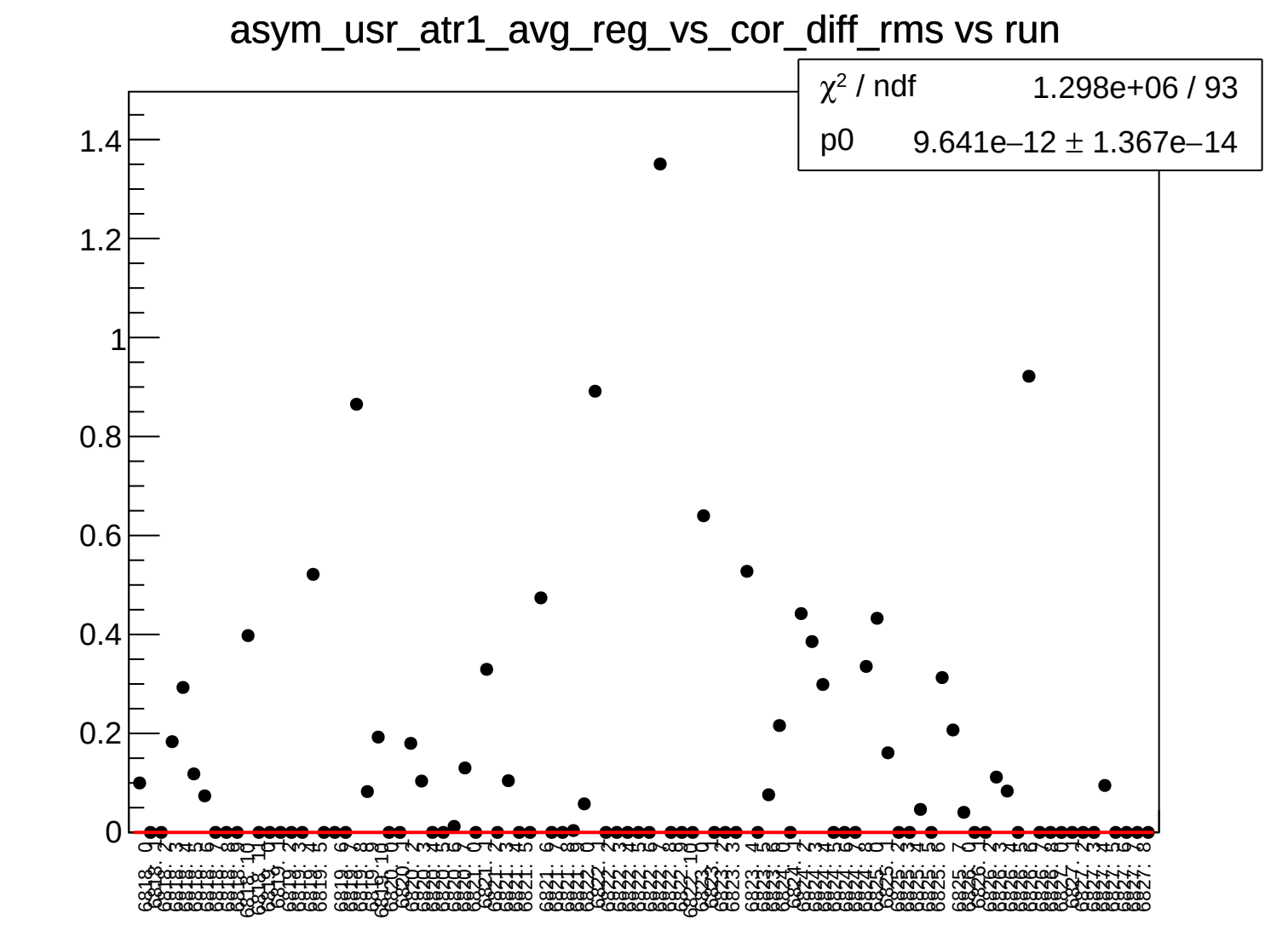

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 4792 / 93
p0 707.3 ± 0.5286
900
850
800
750
700
650

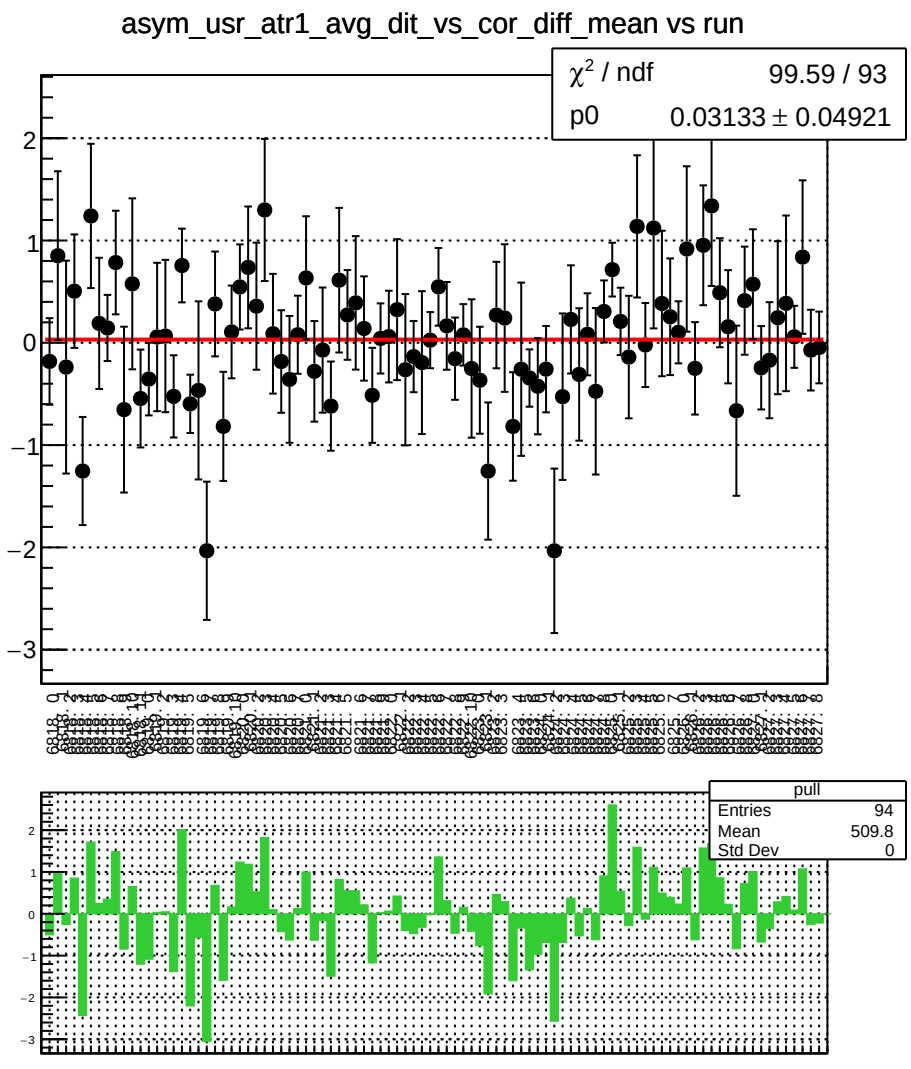

asym_usr_atr1_avg_mean vs run
χ² / ndf 80.85 / 93
p0 −336.8 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 5408
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

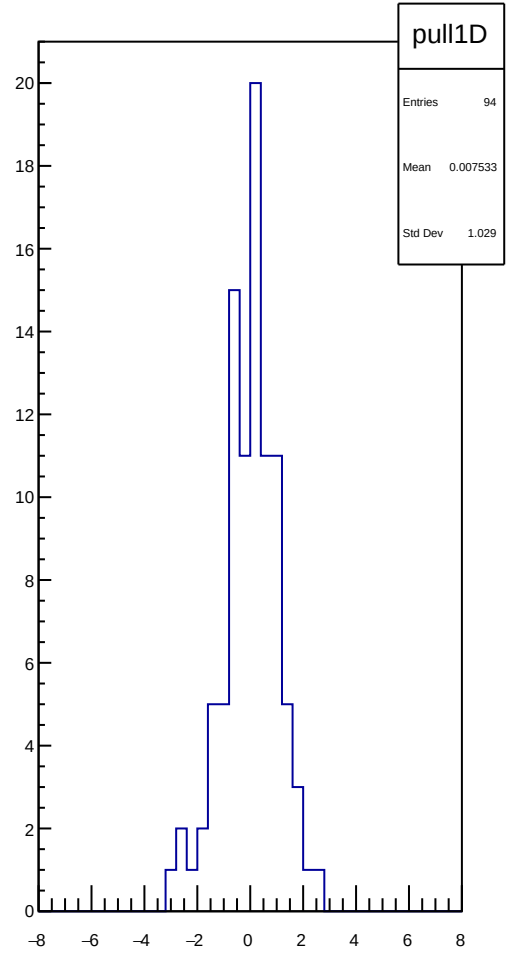

pull1D
Entries 94
Mean 0.0003854
Std Dev 0.9274
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

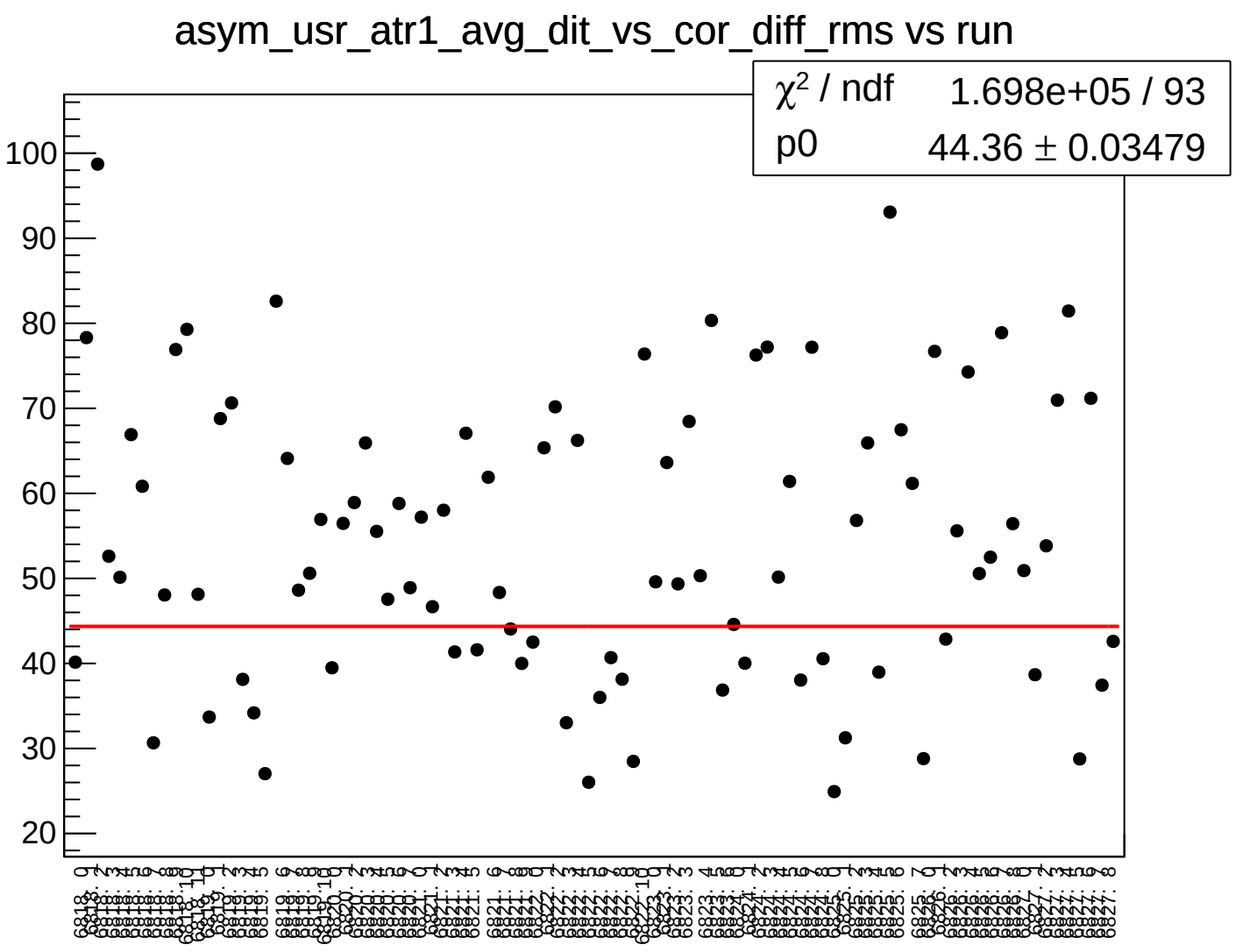

asym_usr_atr1_avg_rms vs run
χ² / ndf 294.8 / 93
p0 1739 ± 1.298
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

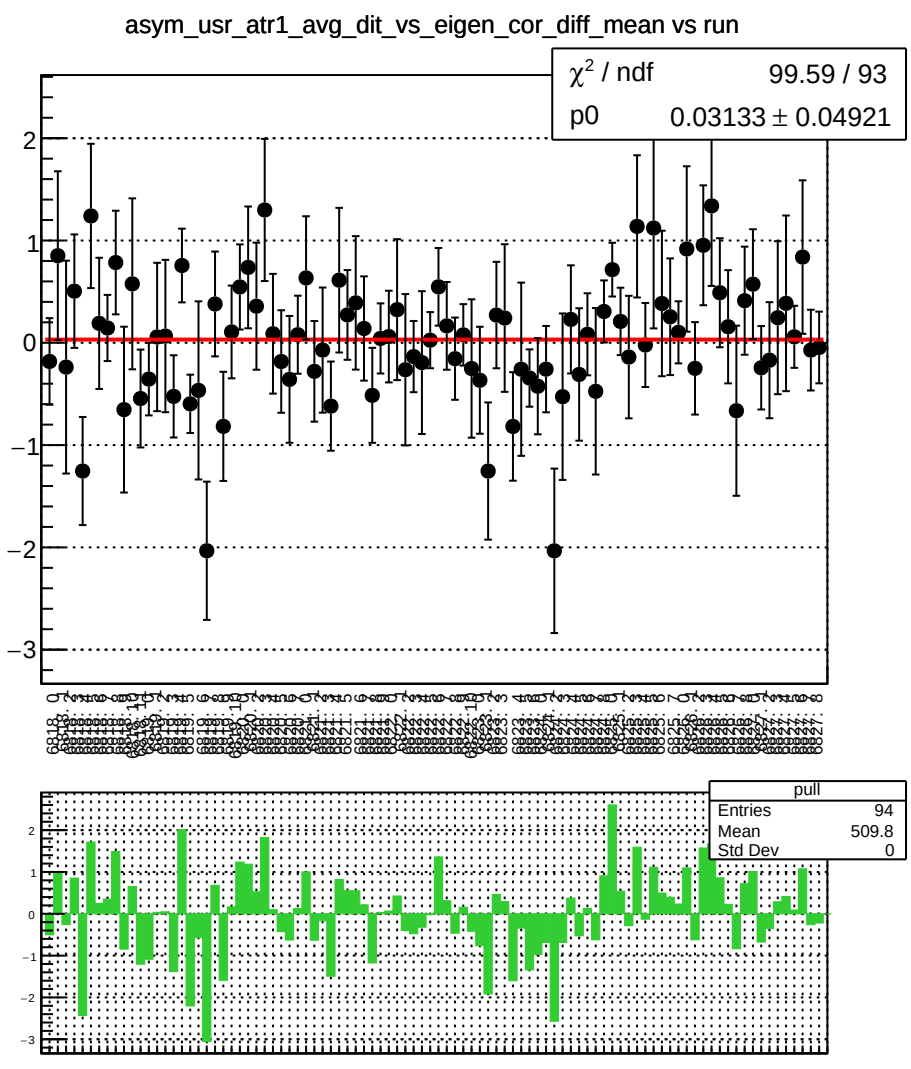

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.58 / 93
p0 2.543e−14 ± 1.933e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean −835.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003501
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

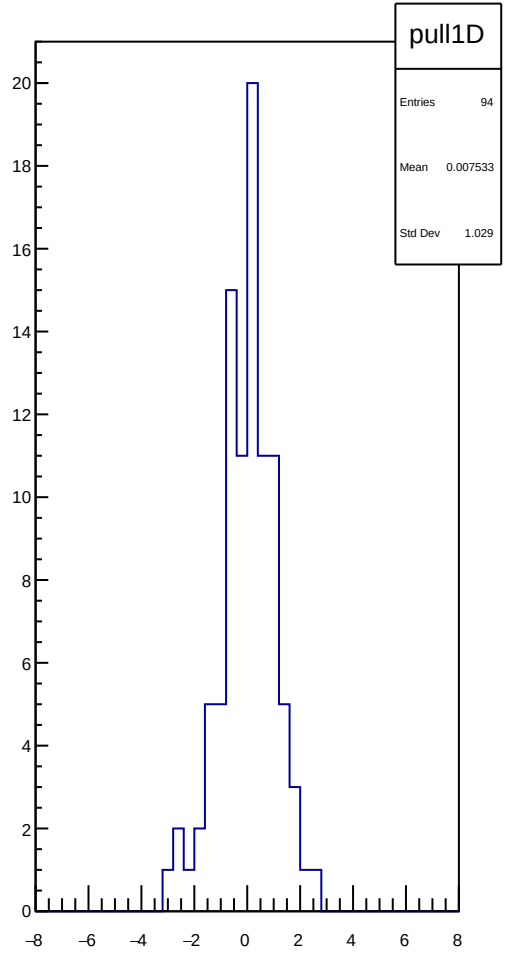

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.298e+06 / 93
p0 9.641e−12 ± 1.367e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

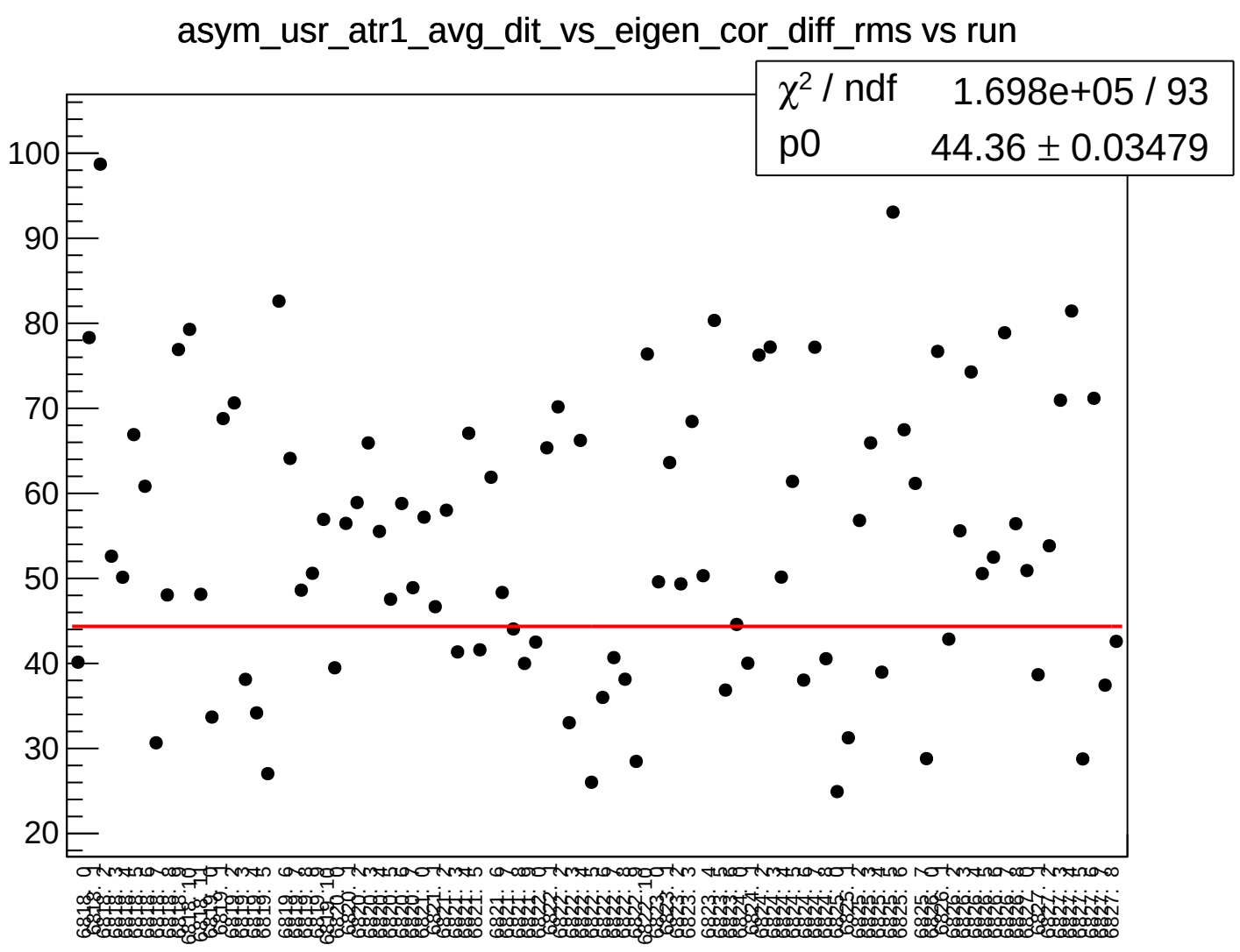

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.59 / 93
p0 0.03133 ± 0.04921
pull
Entries 94
Mean 509.8
Std Dev 0

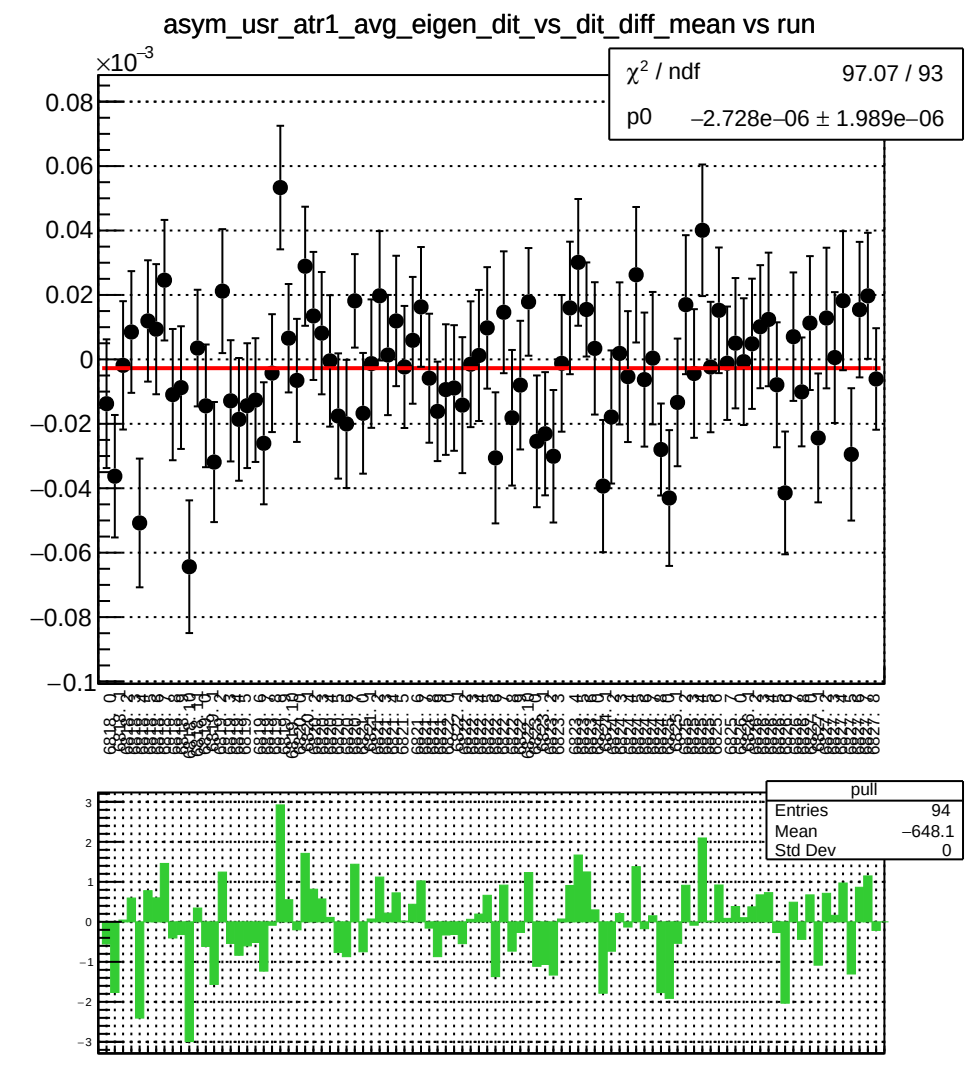

pull1D
Entries 94
Mean 0.007533
Std Dev 1.029

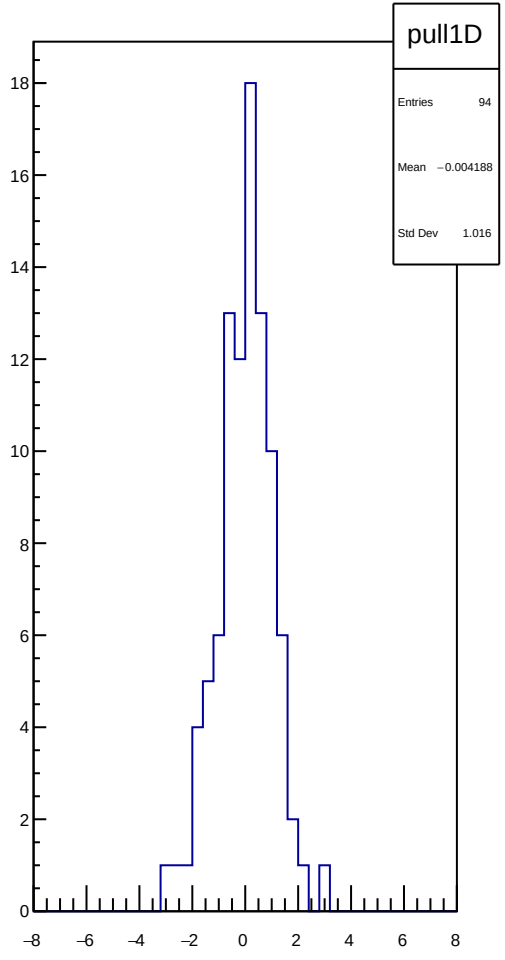

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.698e+05 / 93
p0 44.36 ± 0.03479
100
90
80
70
60
50
40
30
20

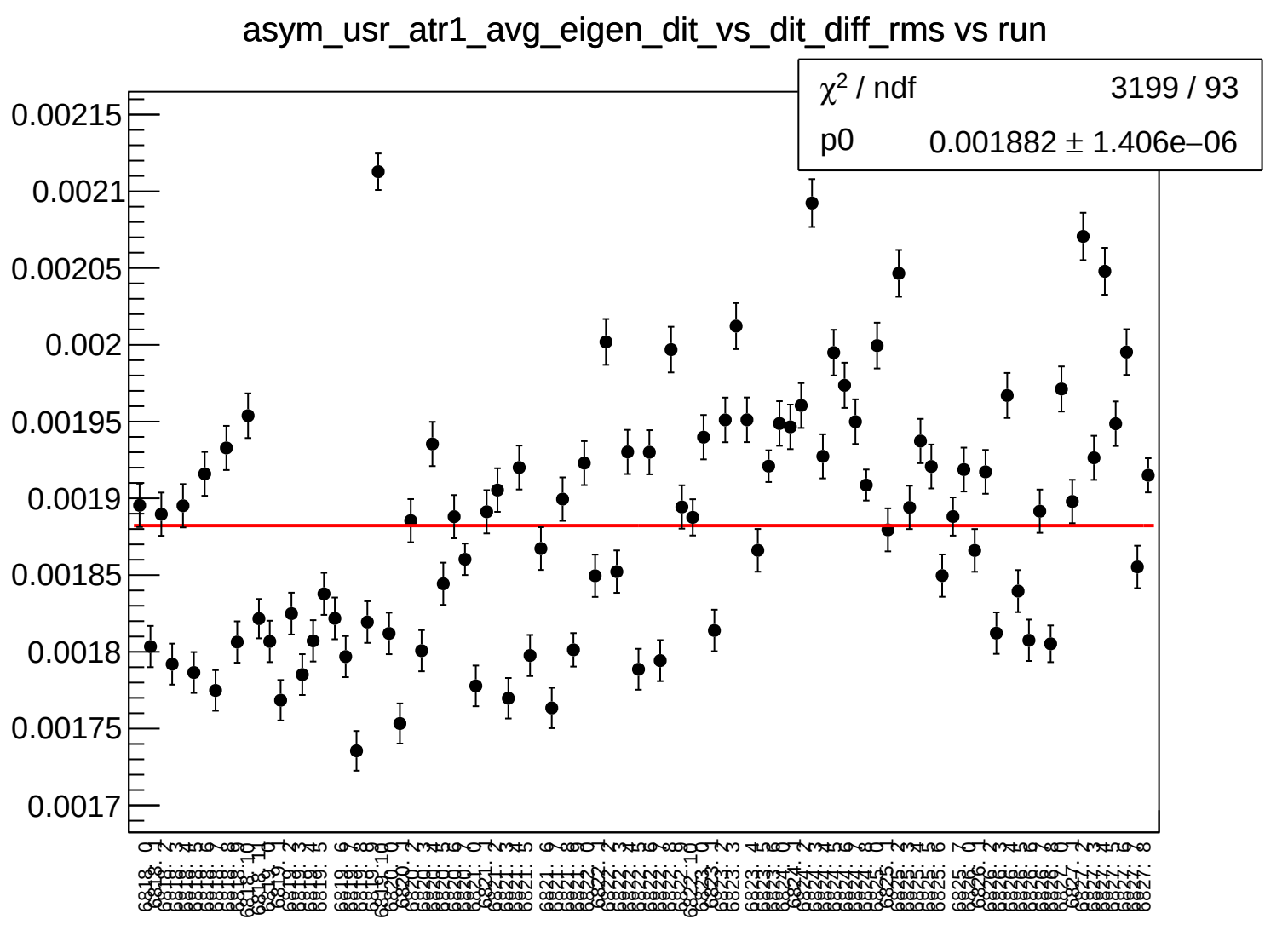

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.59 / 93
p0 0.03133 ± 0.04921
pull
Entries 94
Mean 509.8
Std Dev 0

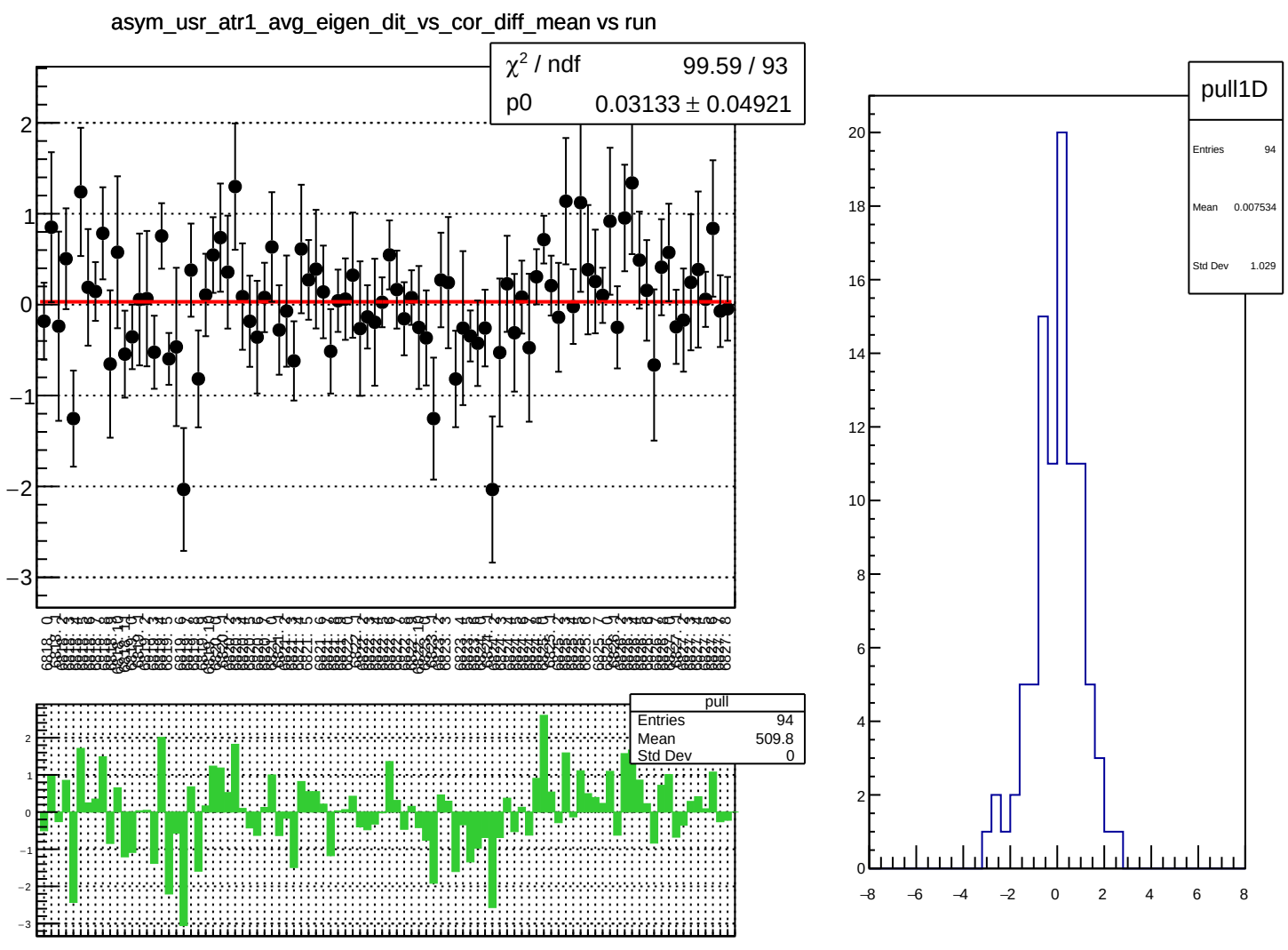

pull1D
Entries 94
Mean 0.007533
Std Dev 1.029

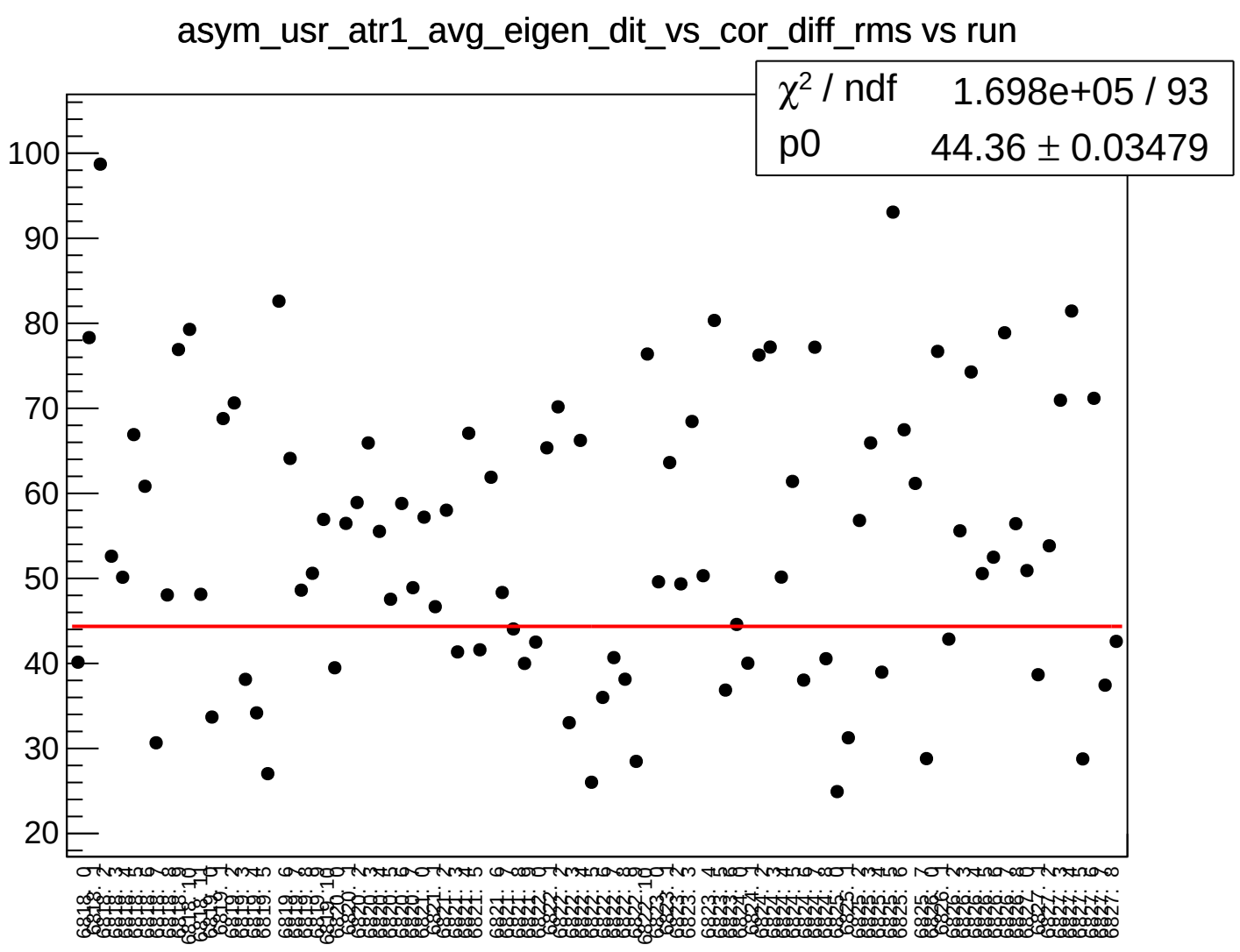

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.698e+05 / 93
p0 44.36 ± 0.03479
100
90
80
70
60
50
40
30
20

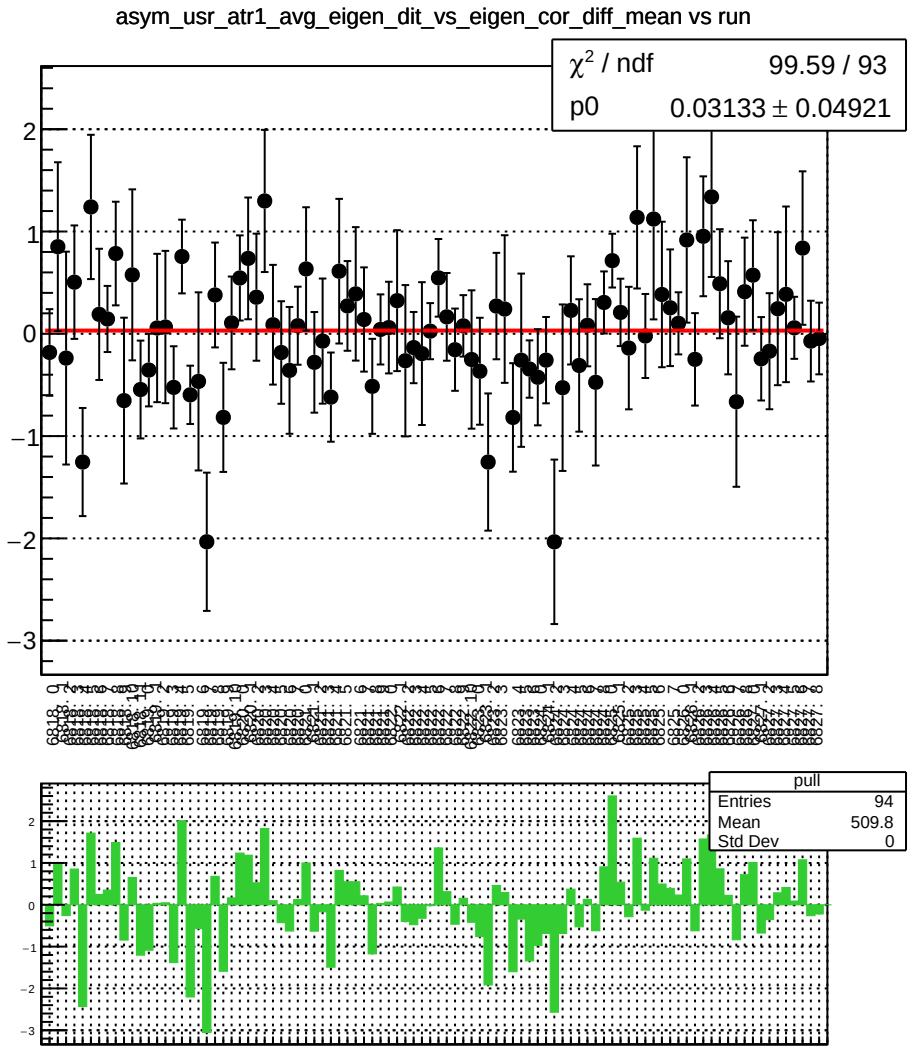

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.07 / 93
p0 −2.728e−06 ± 1.989e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 94
Mean −648.1
Std Dev 0
3
2
1
0
−1
−2
−3

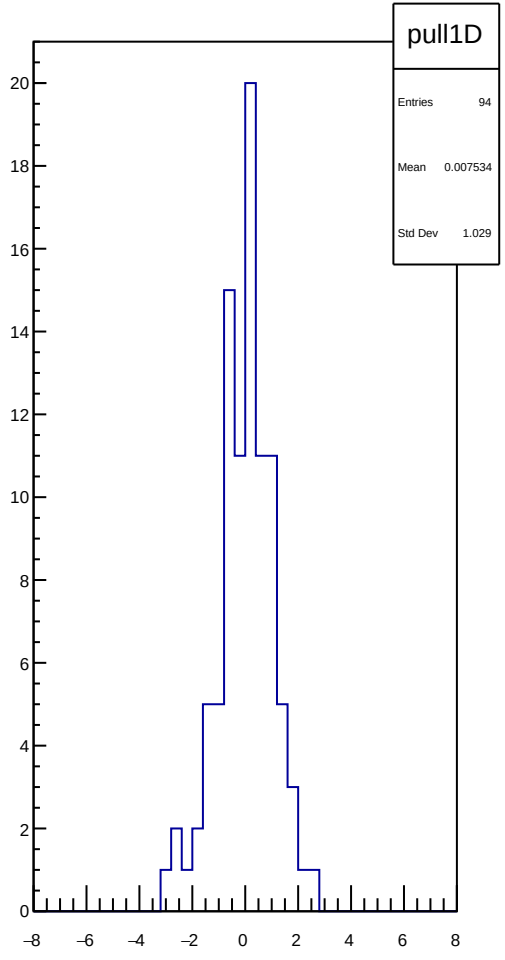

pull1D
Entries 94
Mean −0.004188
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

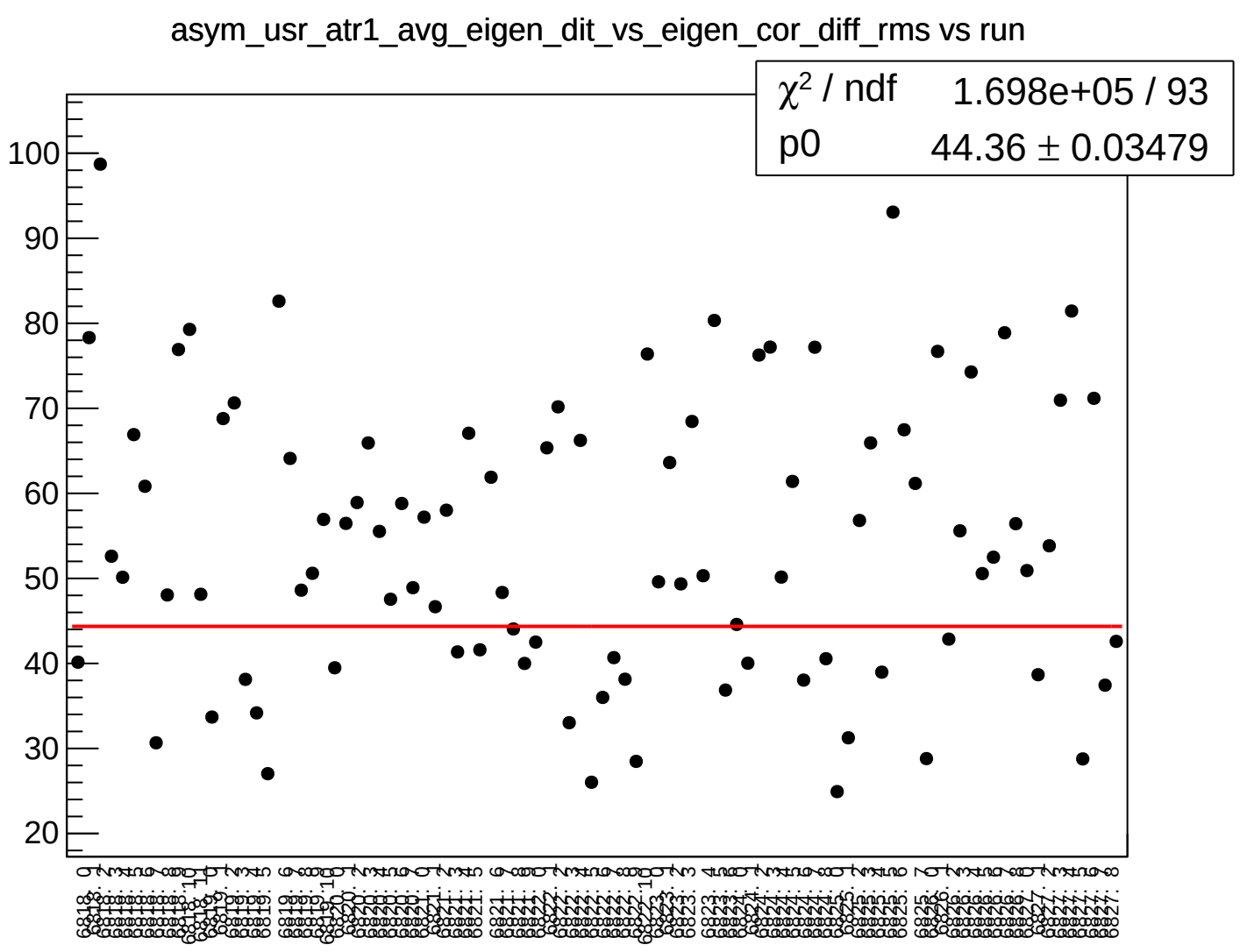

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3199 / 93
p0 0.001882 ± 1.406e−06
0.00215
0.0021
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017

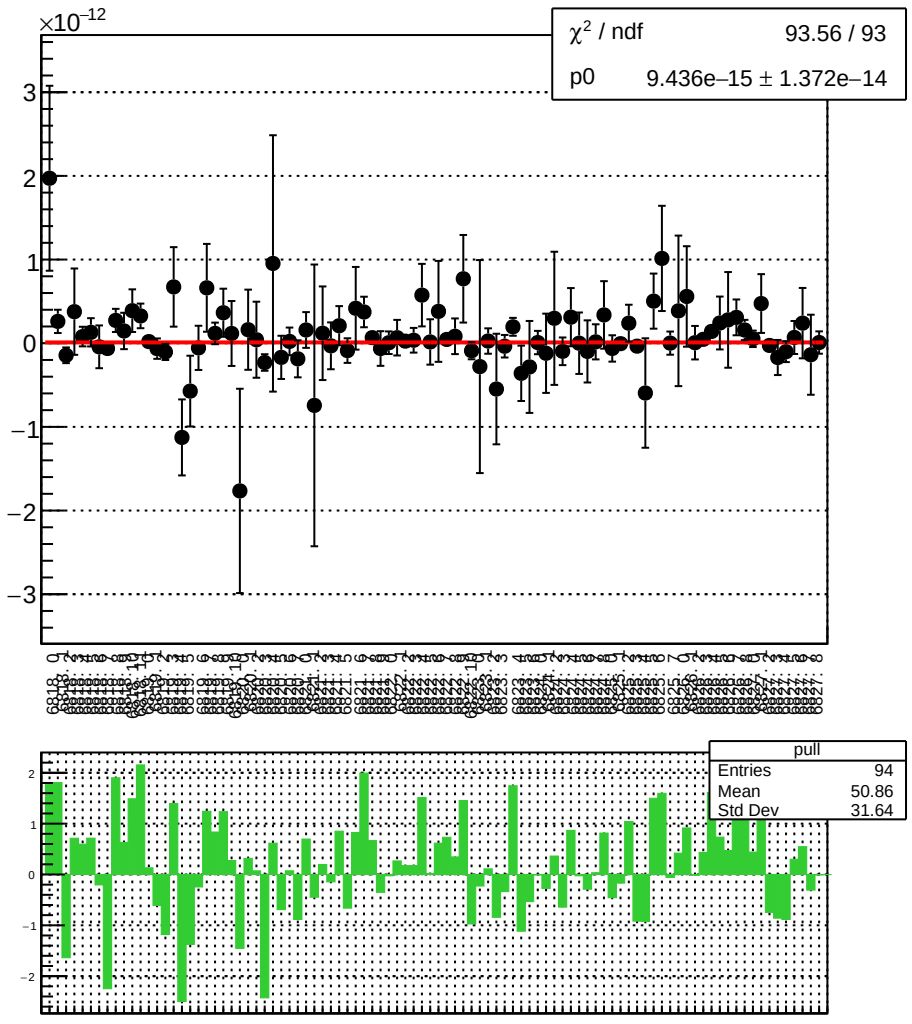

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.59 / 93
p0 0.03133 ± 0.04921
pull
Entries 94
Mean 509.8
Std Dev 0
pull1D
Entries 94
Mean 0.007534
Std Dev 1.029

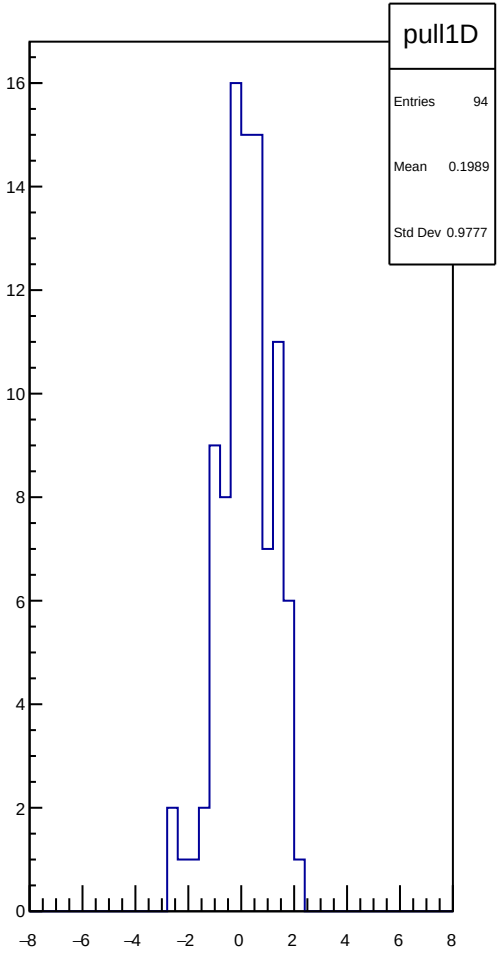

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.698e+05 / 93
p0 44.36 ± 0.03479
100
90
80
70
60
50
40
30
20

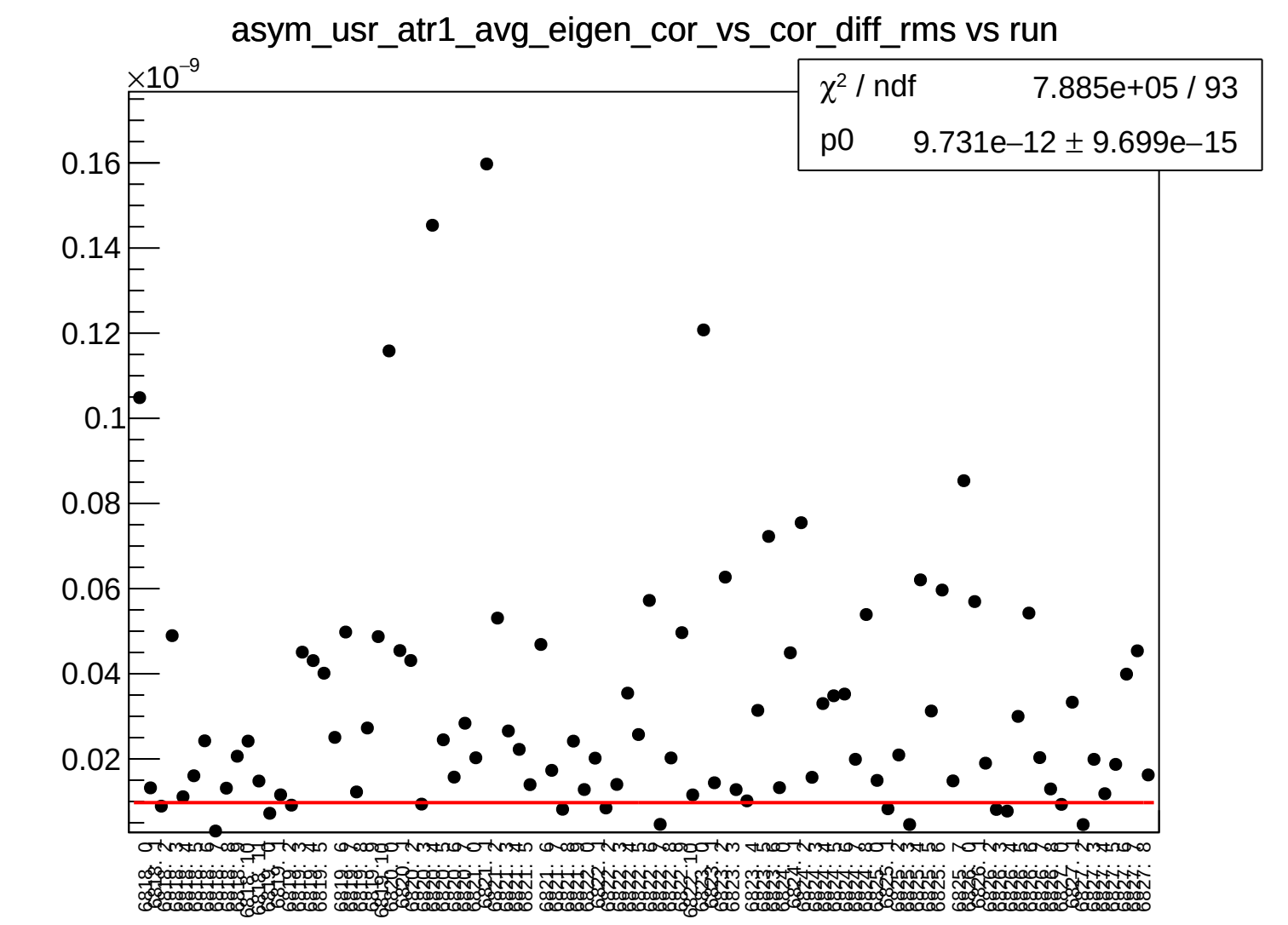

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.59 / 93
p0 0.03133 ± 0.04921
pull
Entries 94
Mean 509.8
Std Dev 0

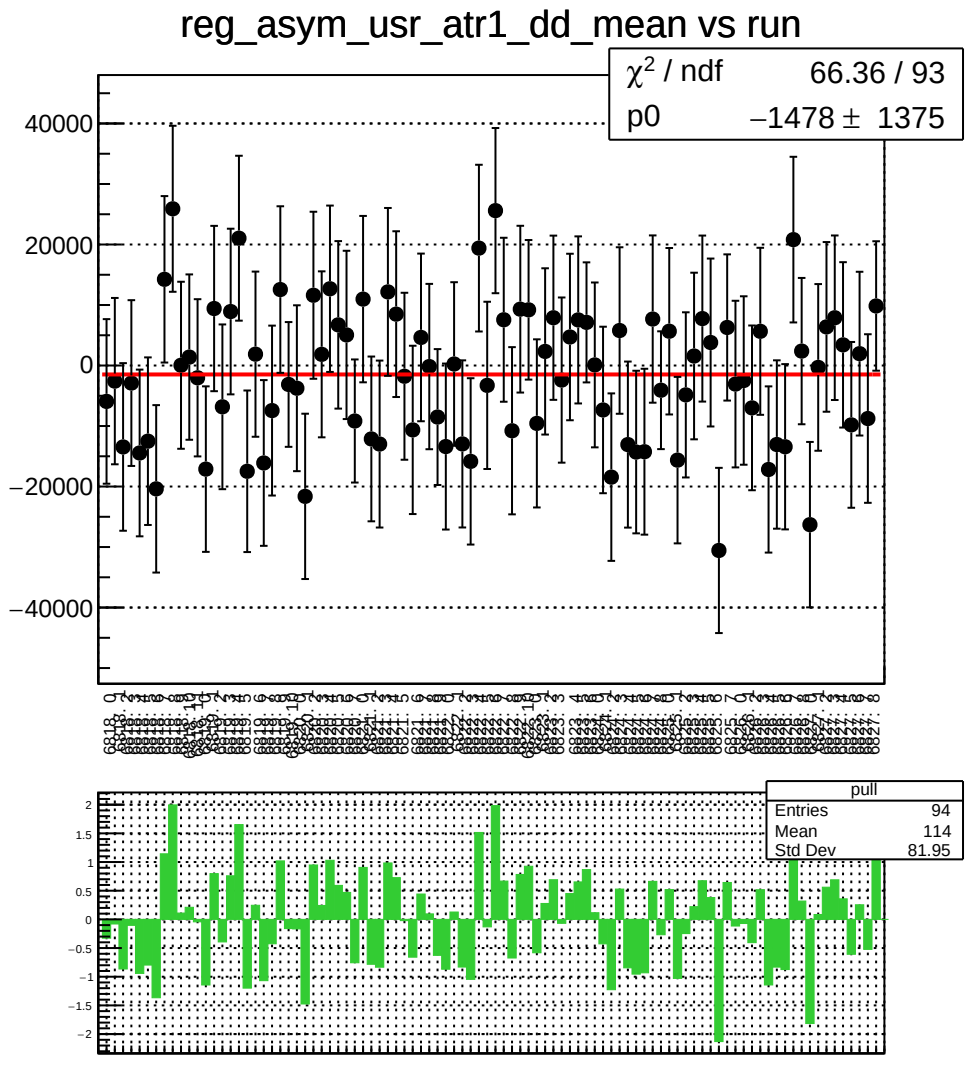

pull1D
Entries 94
Mean 0.007534
Std Dev 1.029

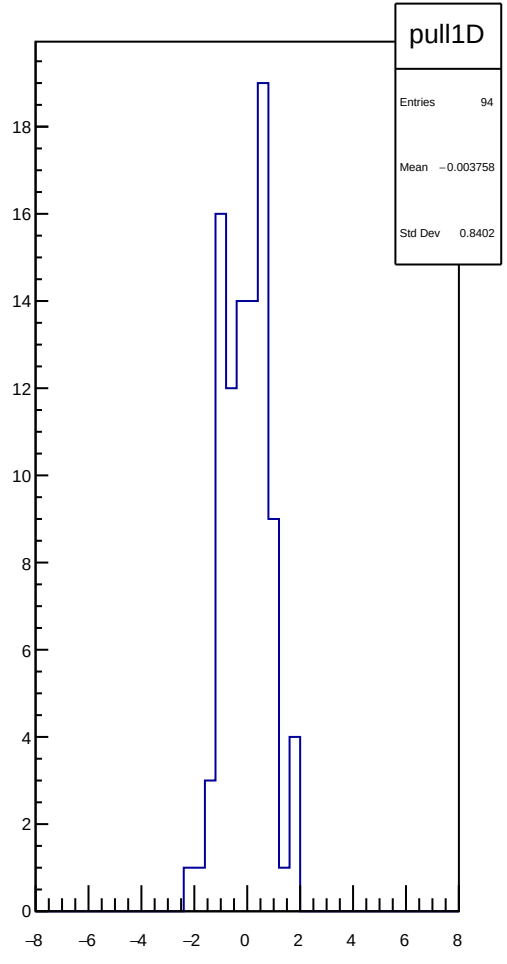

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.698e+05 / 93
p0 44.36 ± 0.03479
100
90
80
70
60
50
40
30
20

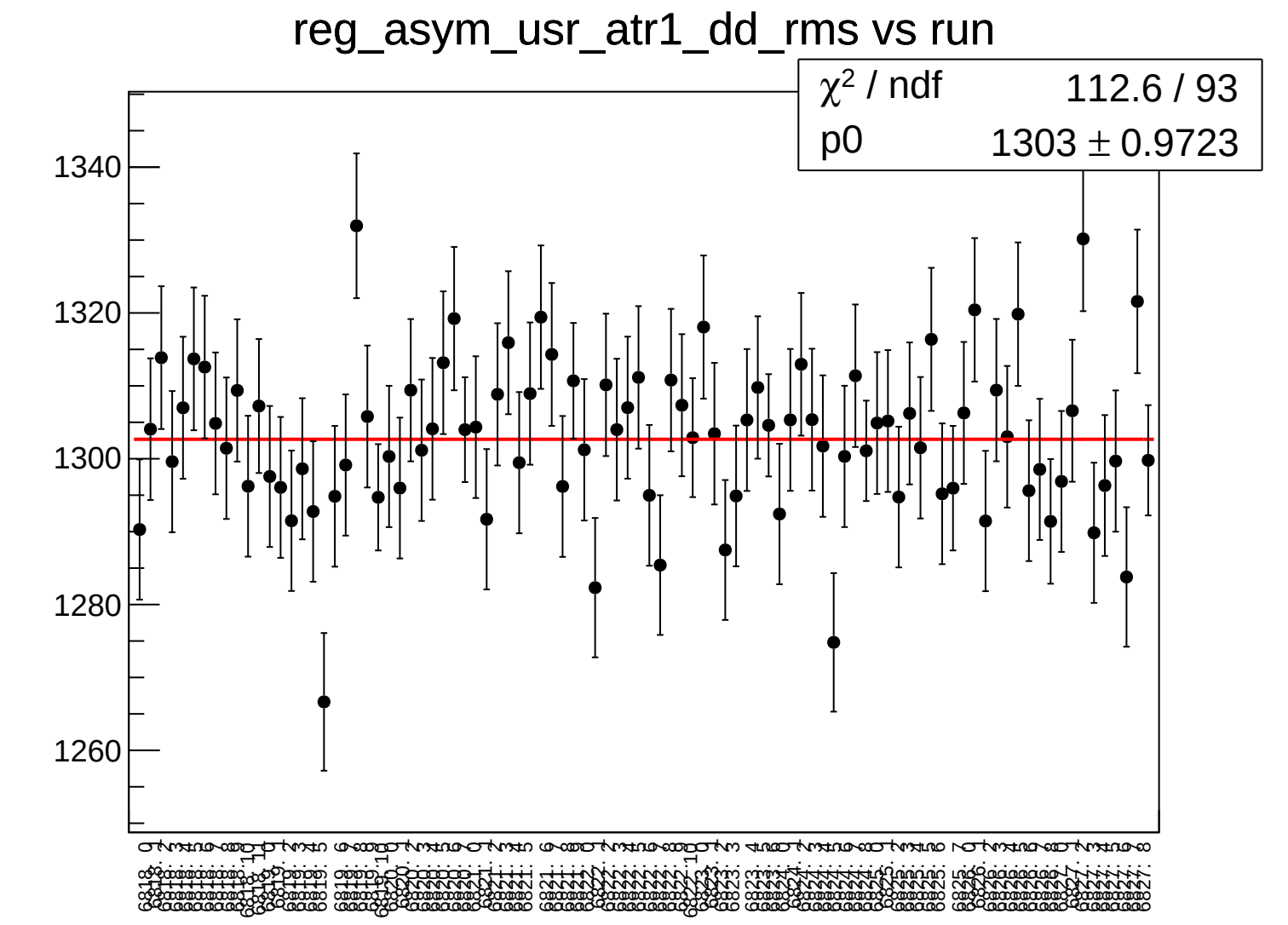

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.56 / 93
p0 9.436e−15 ± 1.372e−14
pull
Entries 94
Mean 50.86
Std Dev 31.64

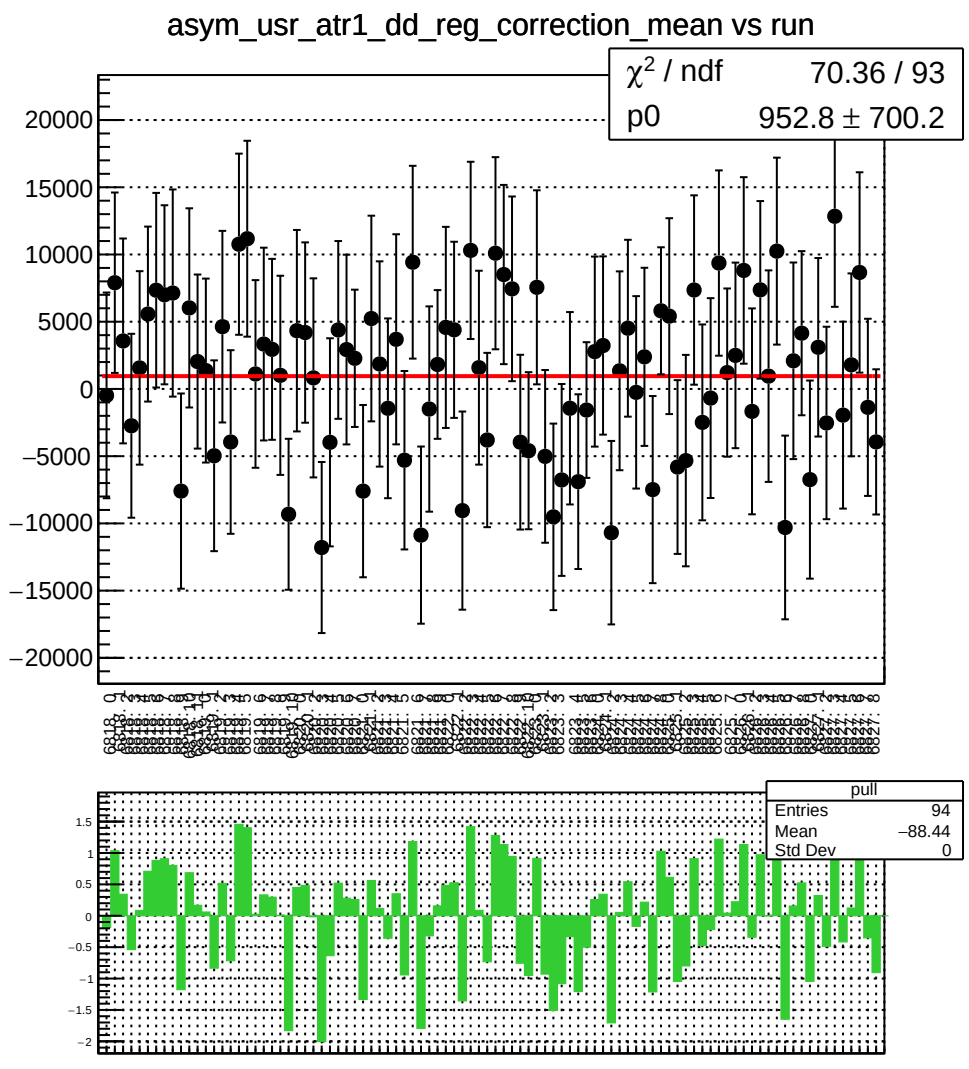

pull1D
Entries 94
Mean 0.1989
Std Dev 0.9777

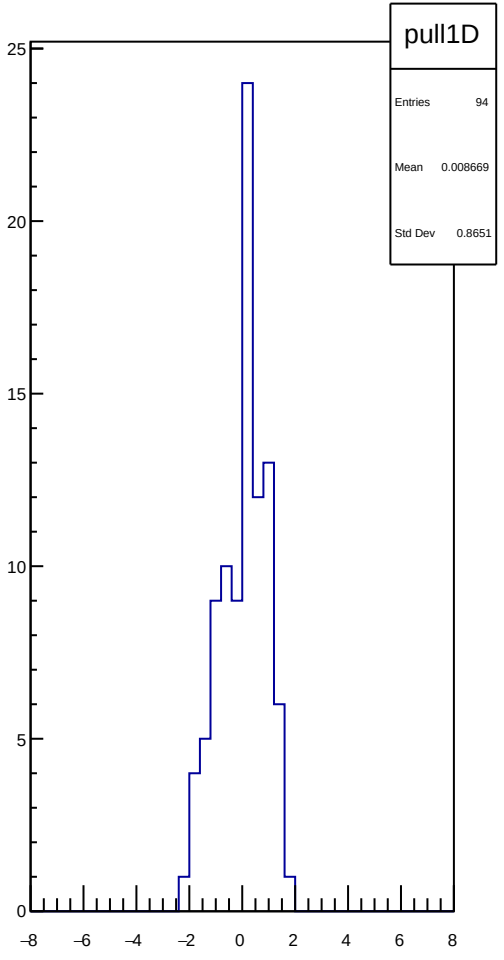

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.885e+05 / 93
p0 9.731e−12 ± 9.699e−15
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

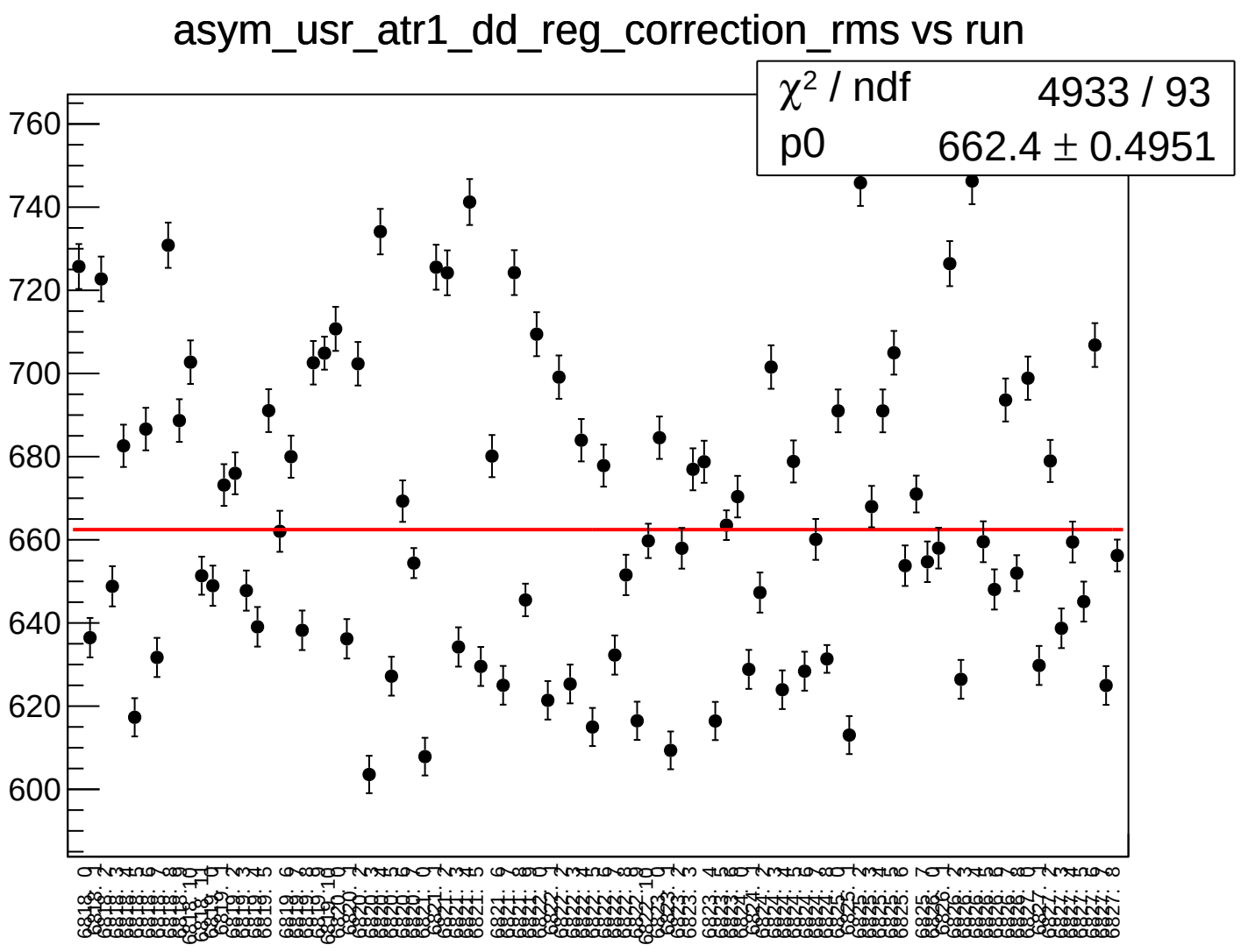

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 66.36 / 93
p0 −1478 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 114
Std Dev 81.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

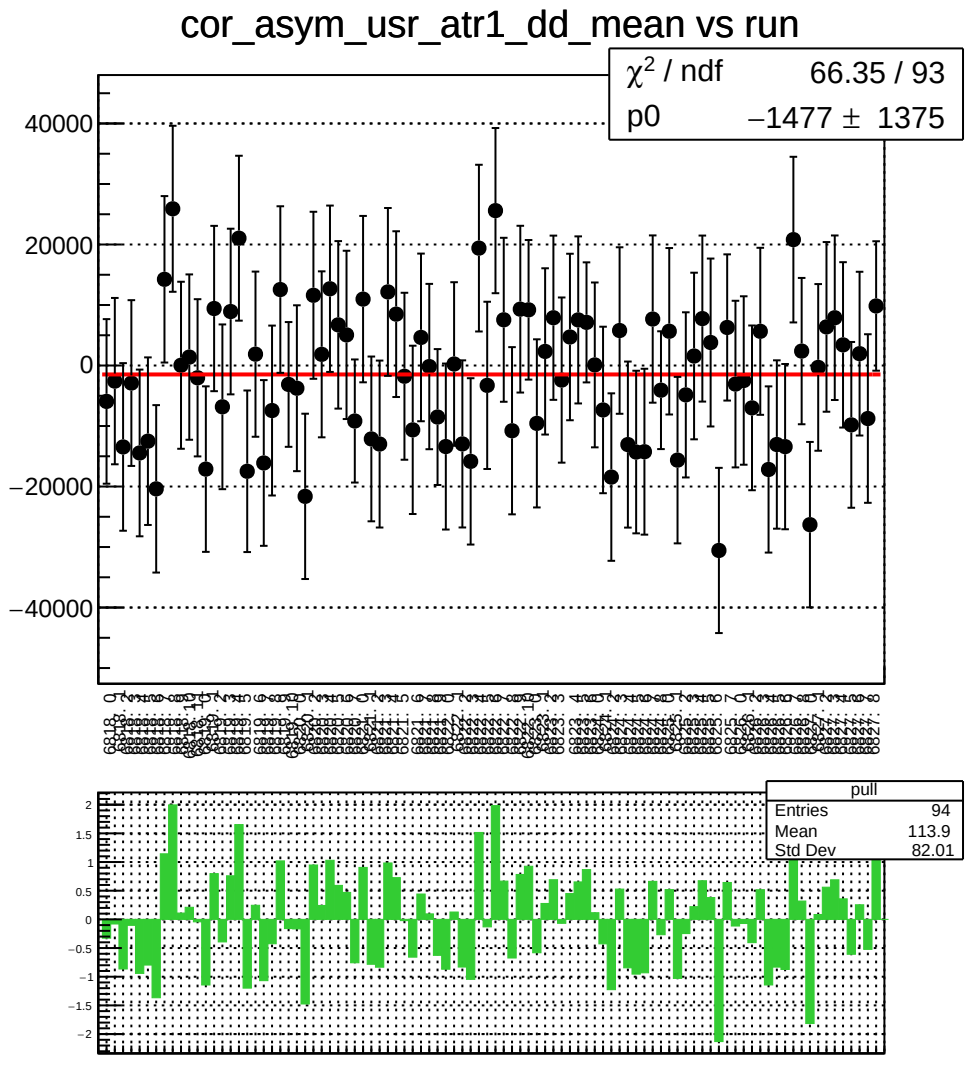

pull1D
Entries 94
Mean −0.003758
Std Dev 0.8402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

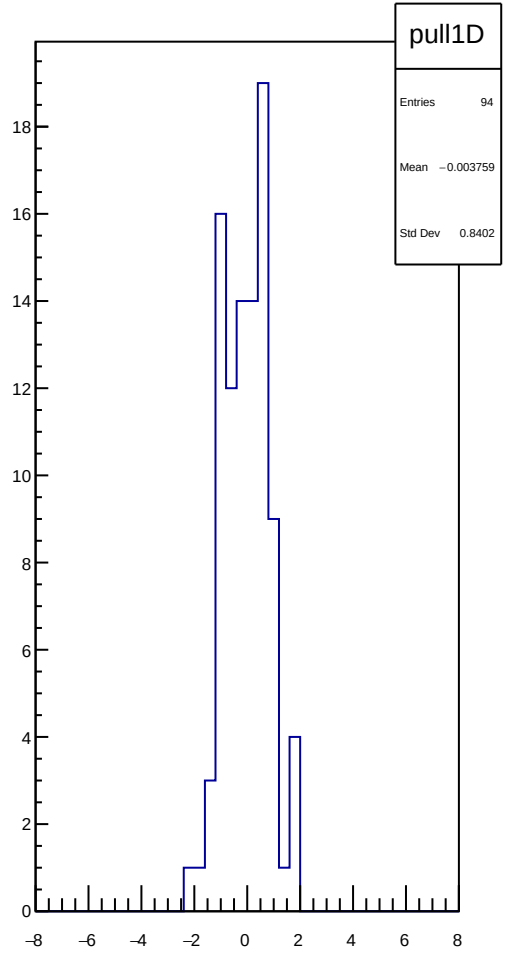

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.6 / 93
p0 1303 ± 0.9723
1340
1320
1300
1280
1260

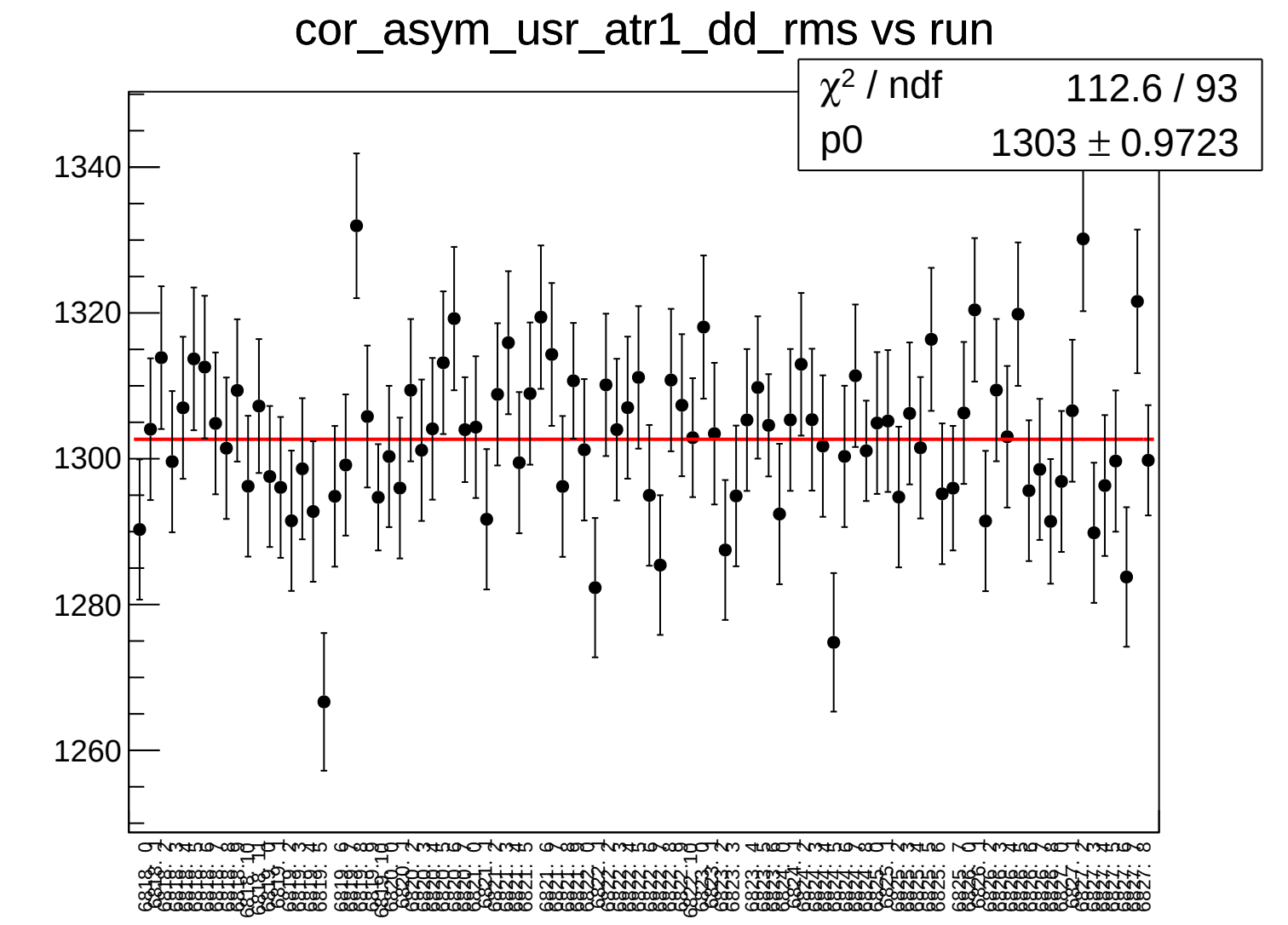

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 70.36 / 93
p0 952.8 ± 700.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −88.44
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

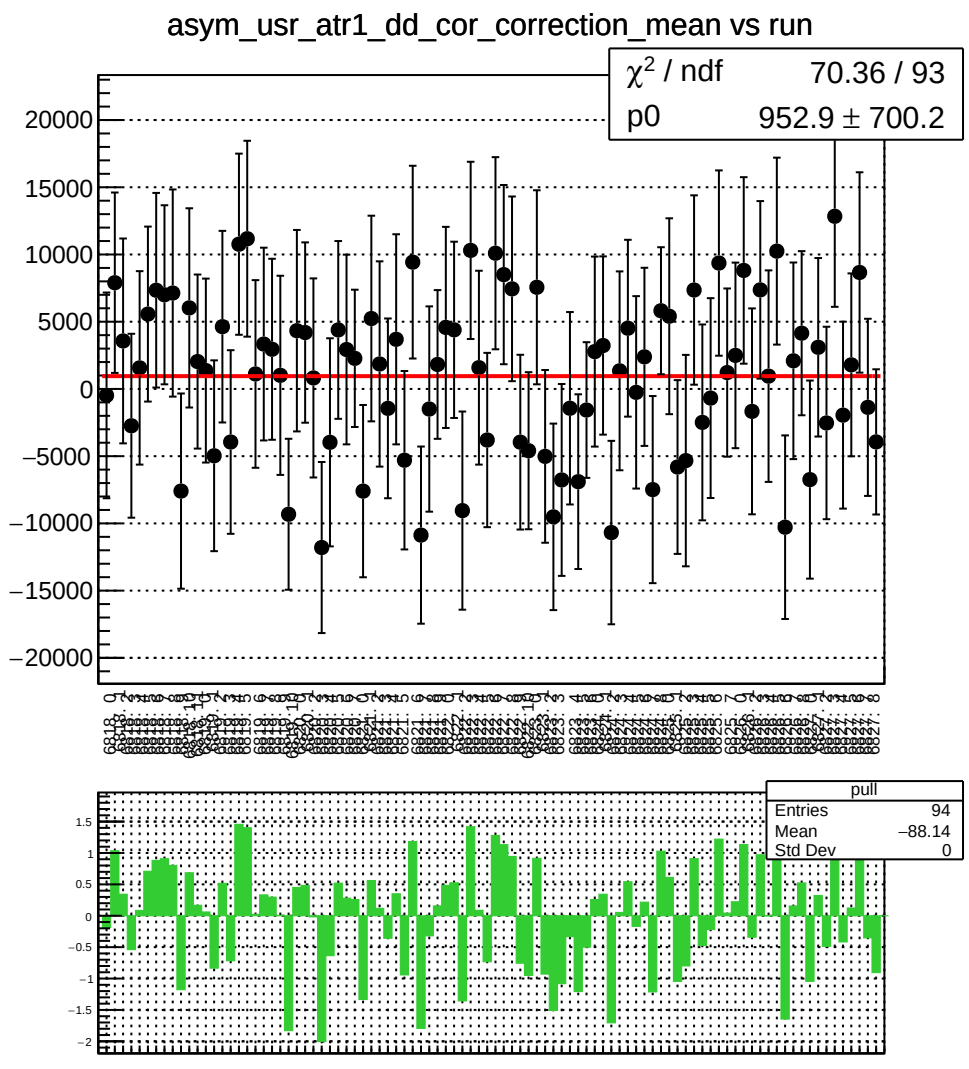

pull1D
Entries 94
Mean 0.008669
Std Dev 0.8651
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

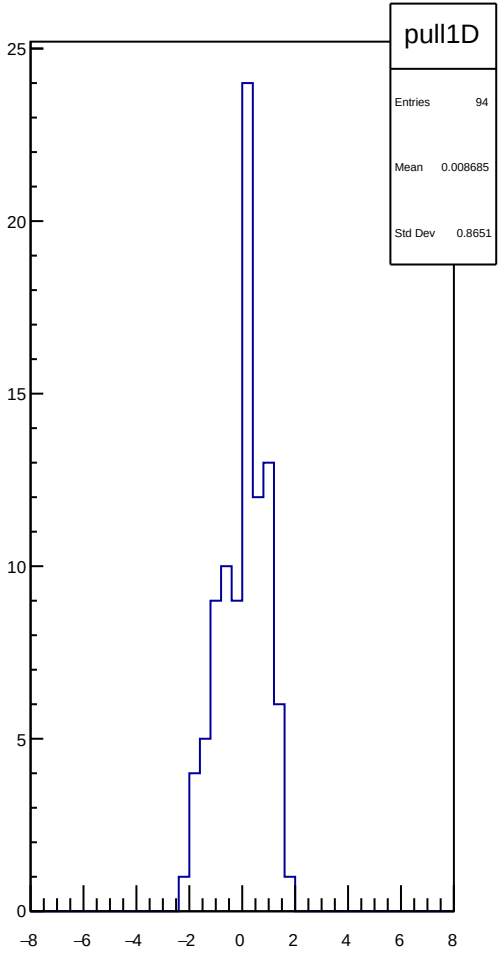

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4933 / 93
p0 662.4 ± 0.4951
760
740
720
700
680
660
640
620
600

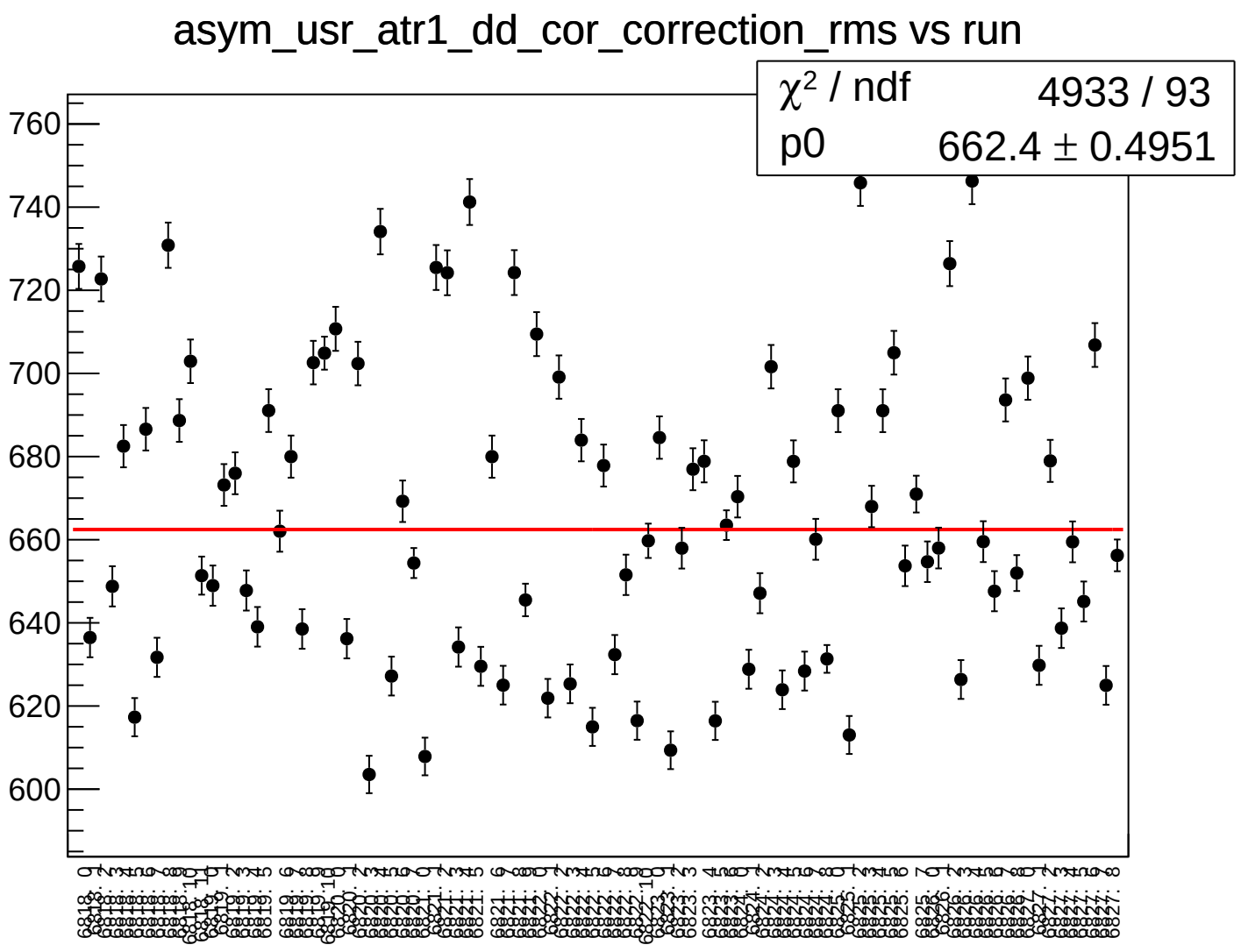

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 66.35 / 93
p0 −1477 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 113.9
Std Dev 82.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

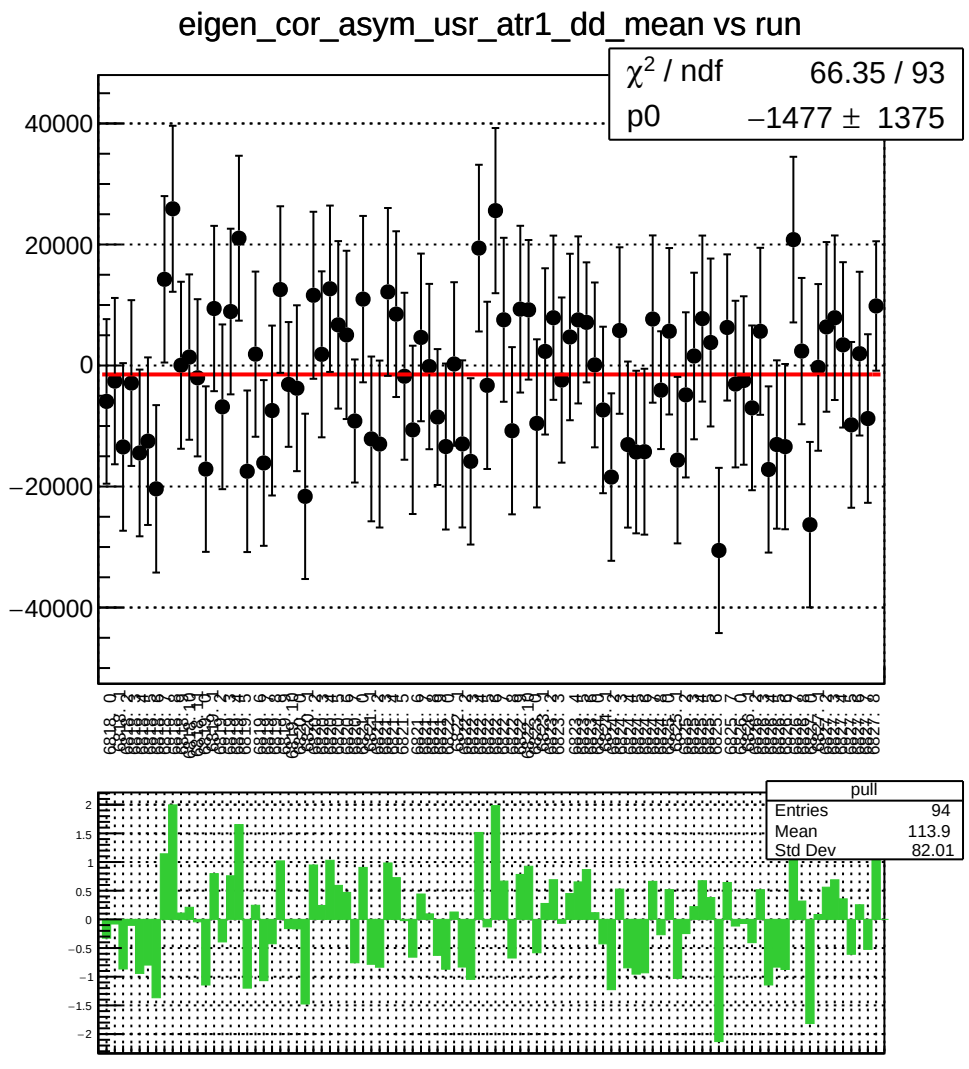

pull1D
Entries 94
Mean −0.003759
Std Dev 0.8402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

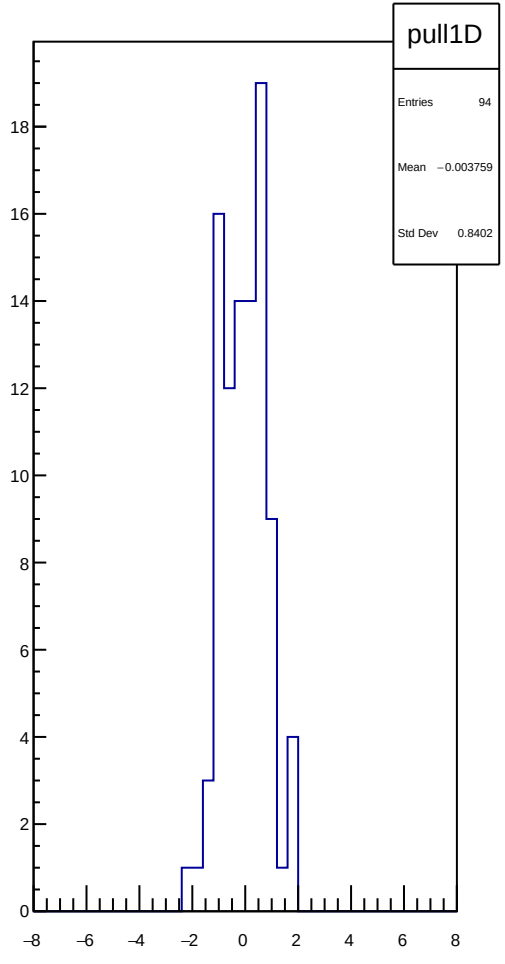

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.6 / 93
p0 1303 ± 0.9723
1340
1320
1300
1280
1260

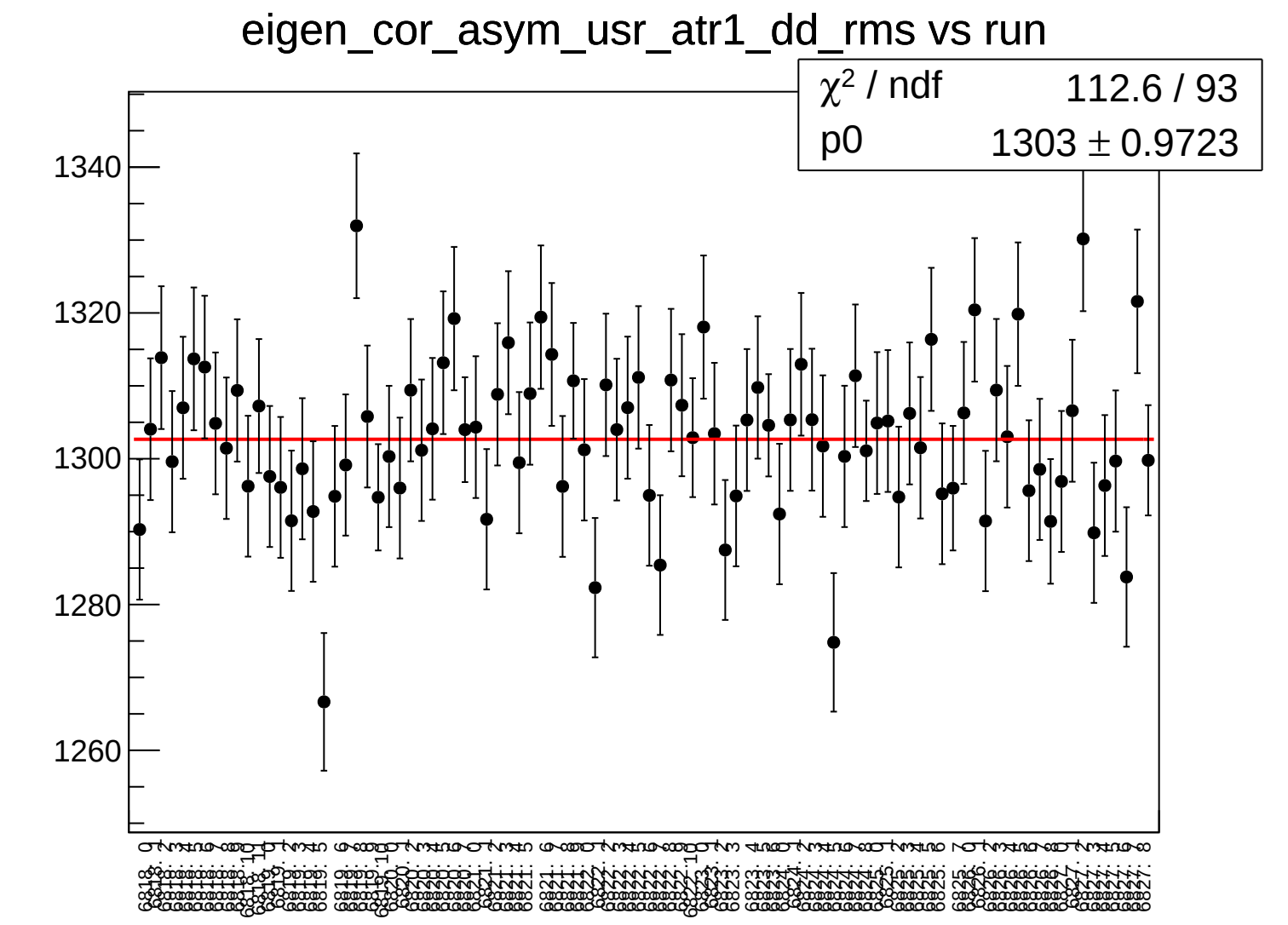

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 70.36 / 93
p0 952.9 ± 700.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −88.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

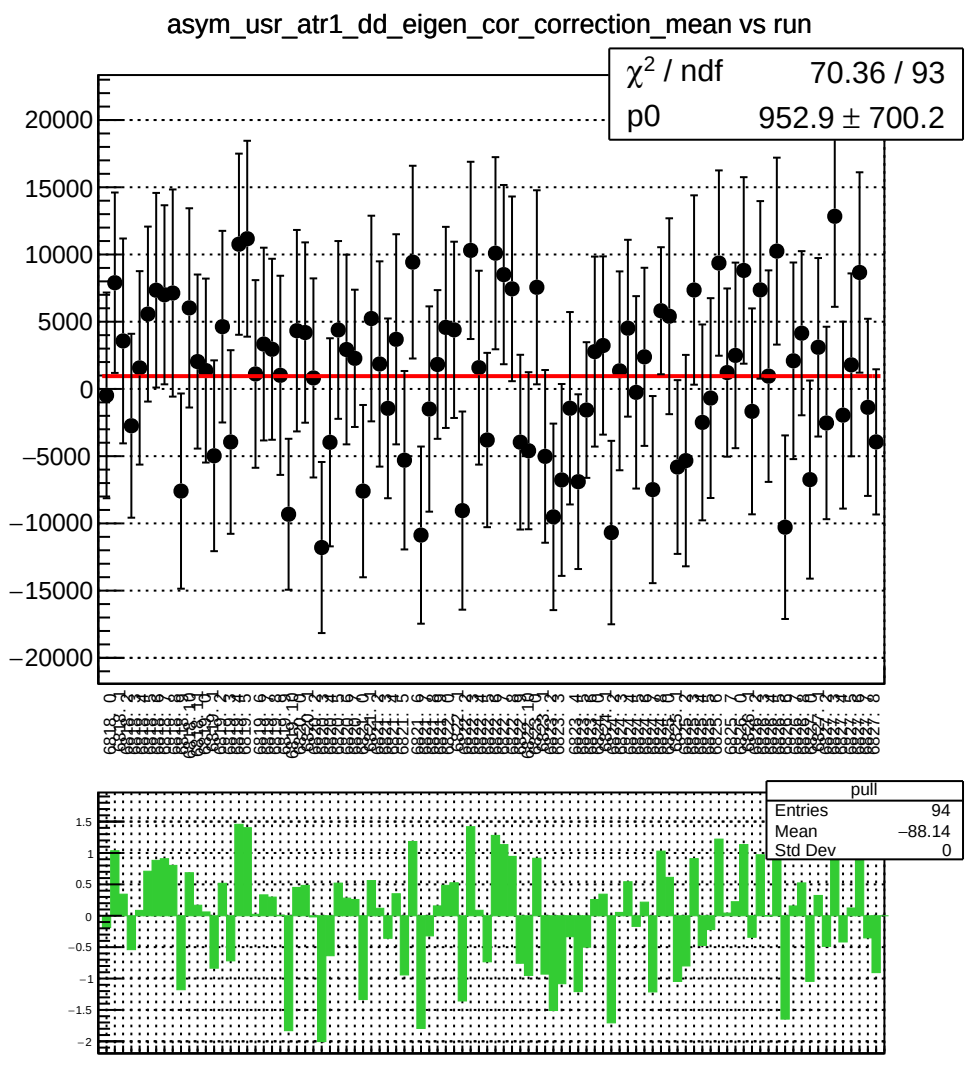

pull1D
Entries 94
Mean 0.008685
Std Dev 0.8651
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

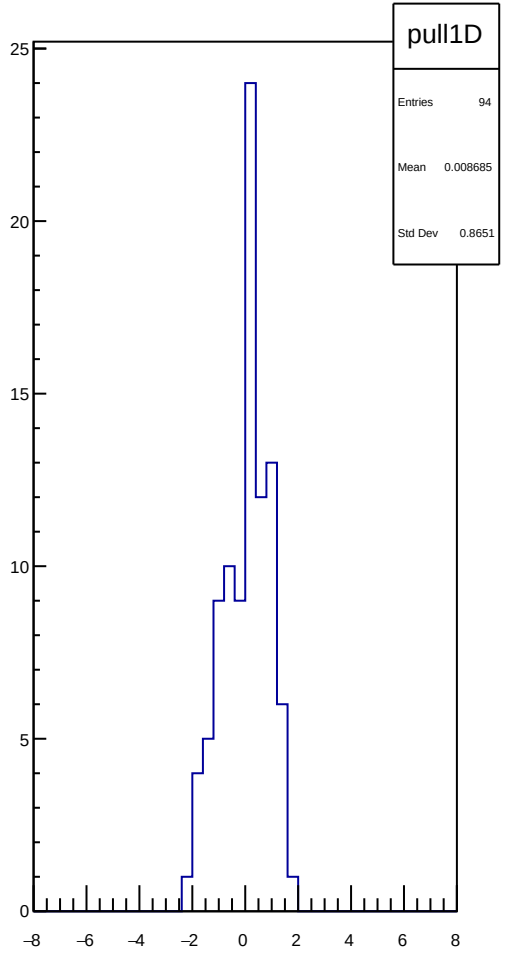

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4933 / 93
p0 662.4 ± 0.4951
760
740
720
700
680
660
640
620
600

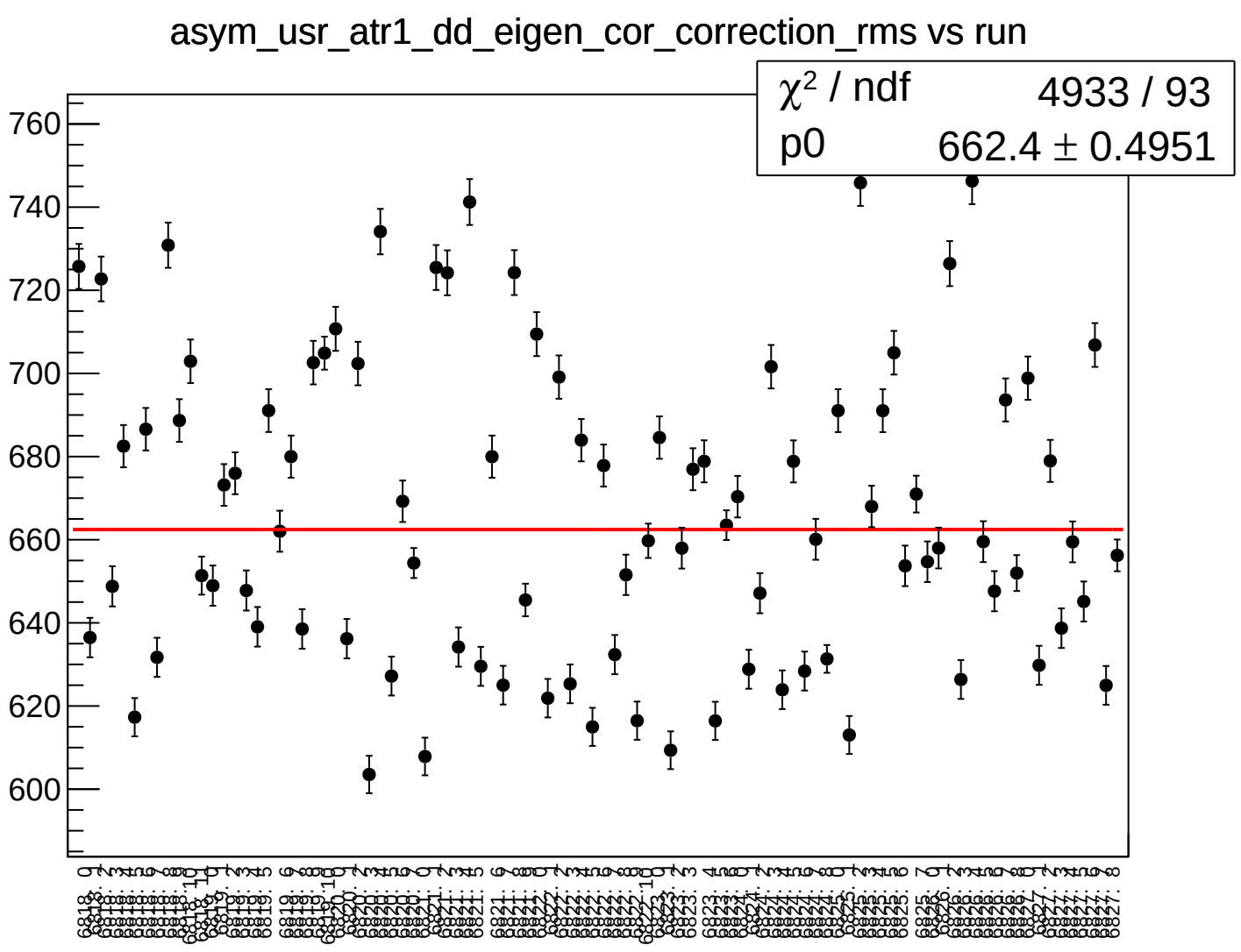

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 66.35 / 93
p0 −1477 ± 1375
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 113.9
Std Dev 82.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

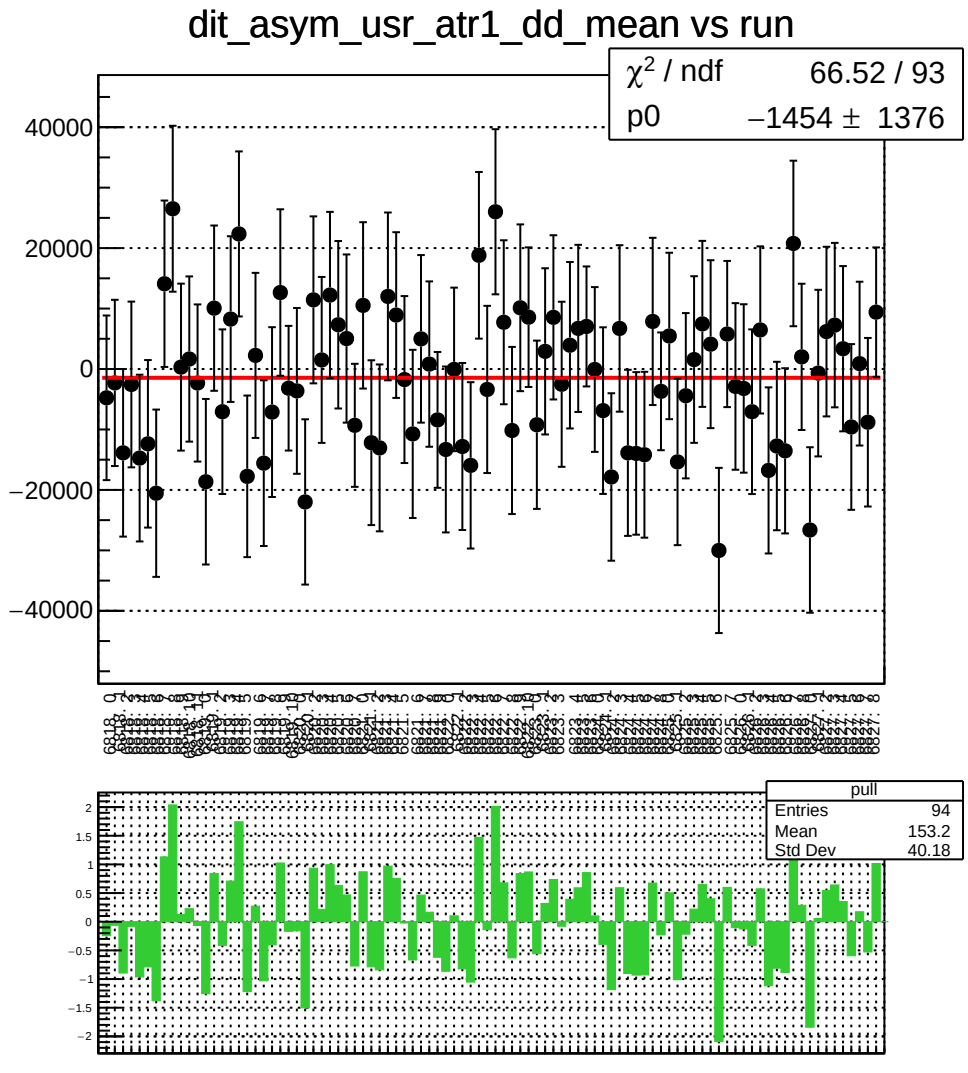

pull1D
Entries 94
Mean −0.003759
Std Dev 0.8402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

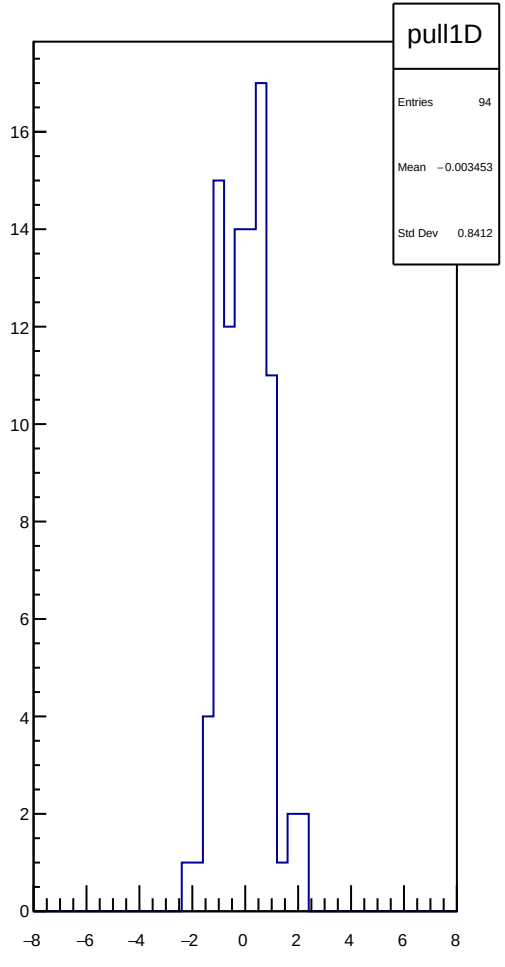

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.6 / 93
p0 1303 ± 0.9723
1340
1320
1300
1280
1260

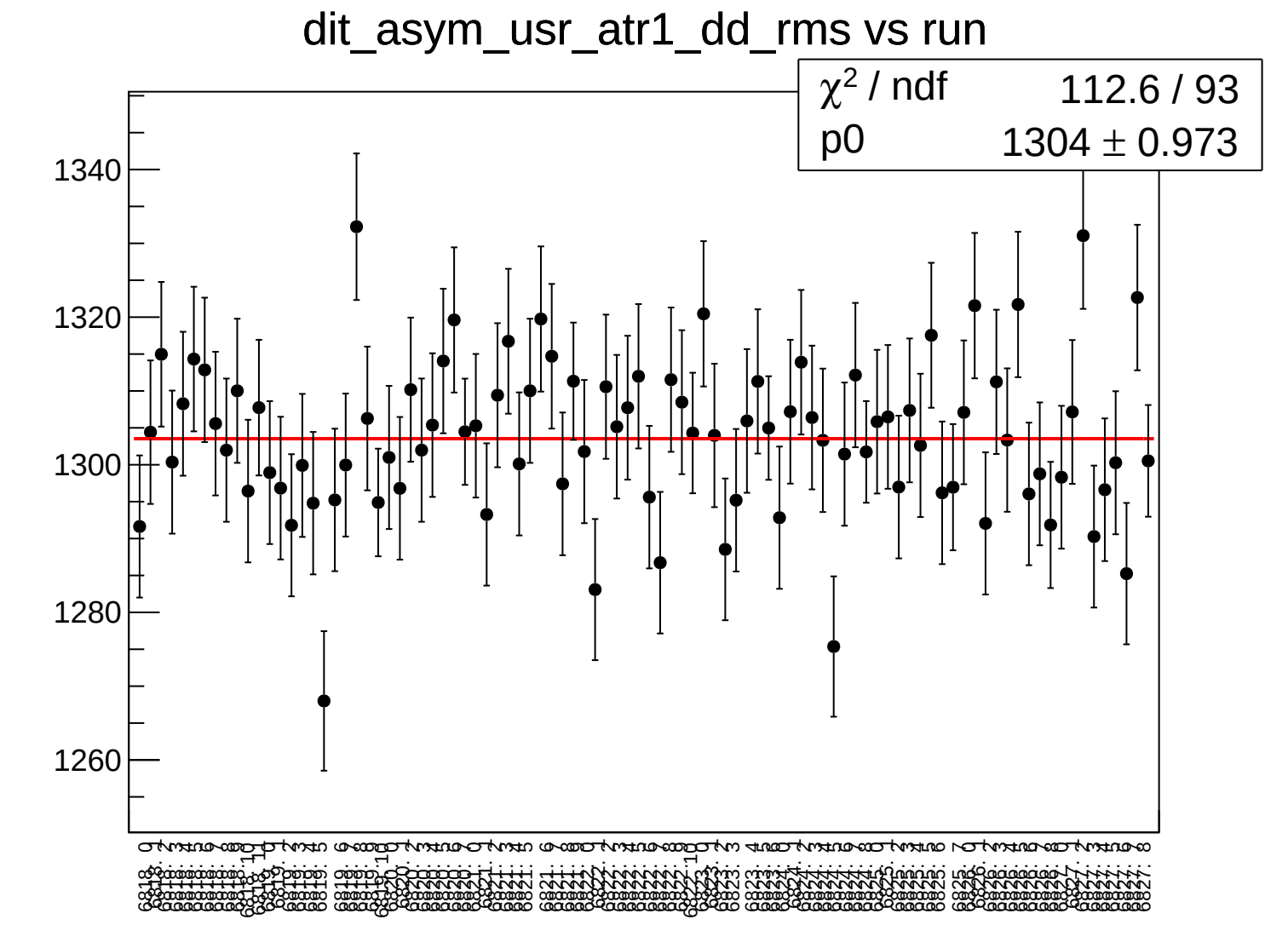

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.36 / 93
p0 952.9 ± 700.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −88.14
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

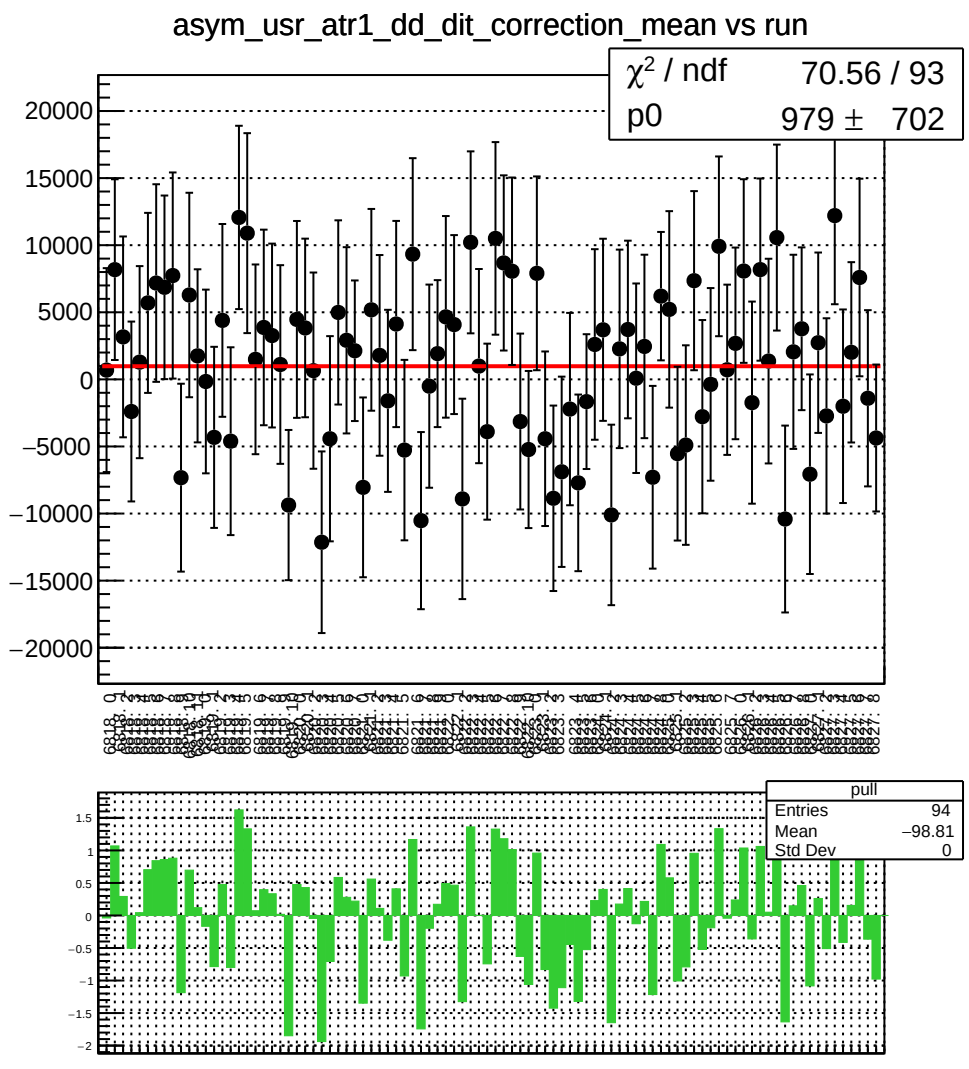

pull1D
Entries 94
Mean 0.008685
Std Dev 0.8651
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

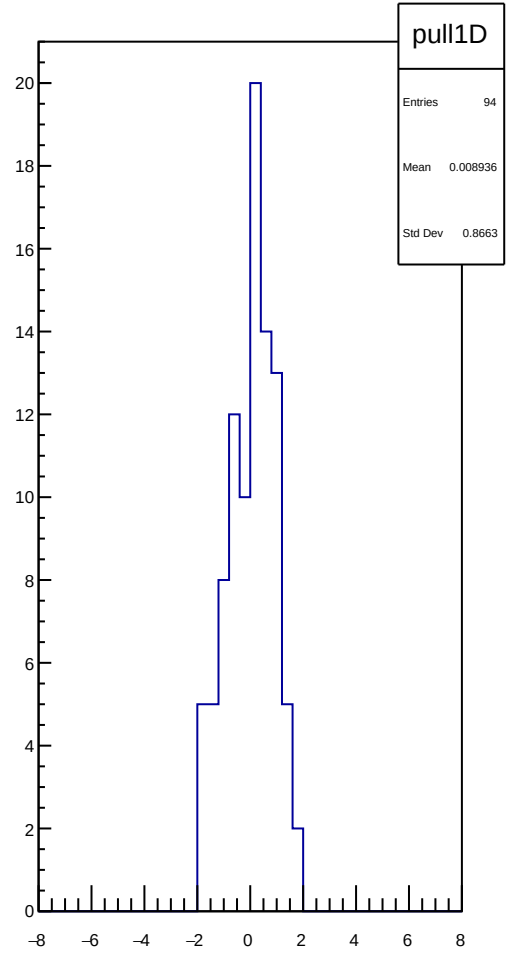

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4933 / 93
p0 662.4 ± 0.4951
760
740
720
700
680
660
640
620
600

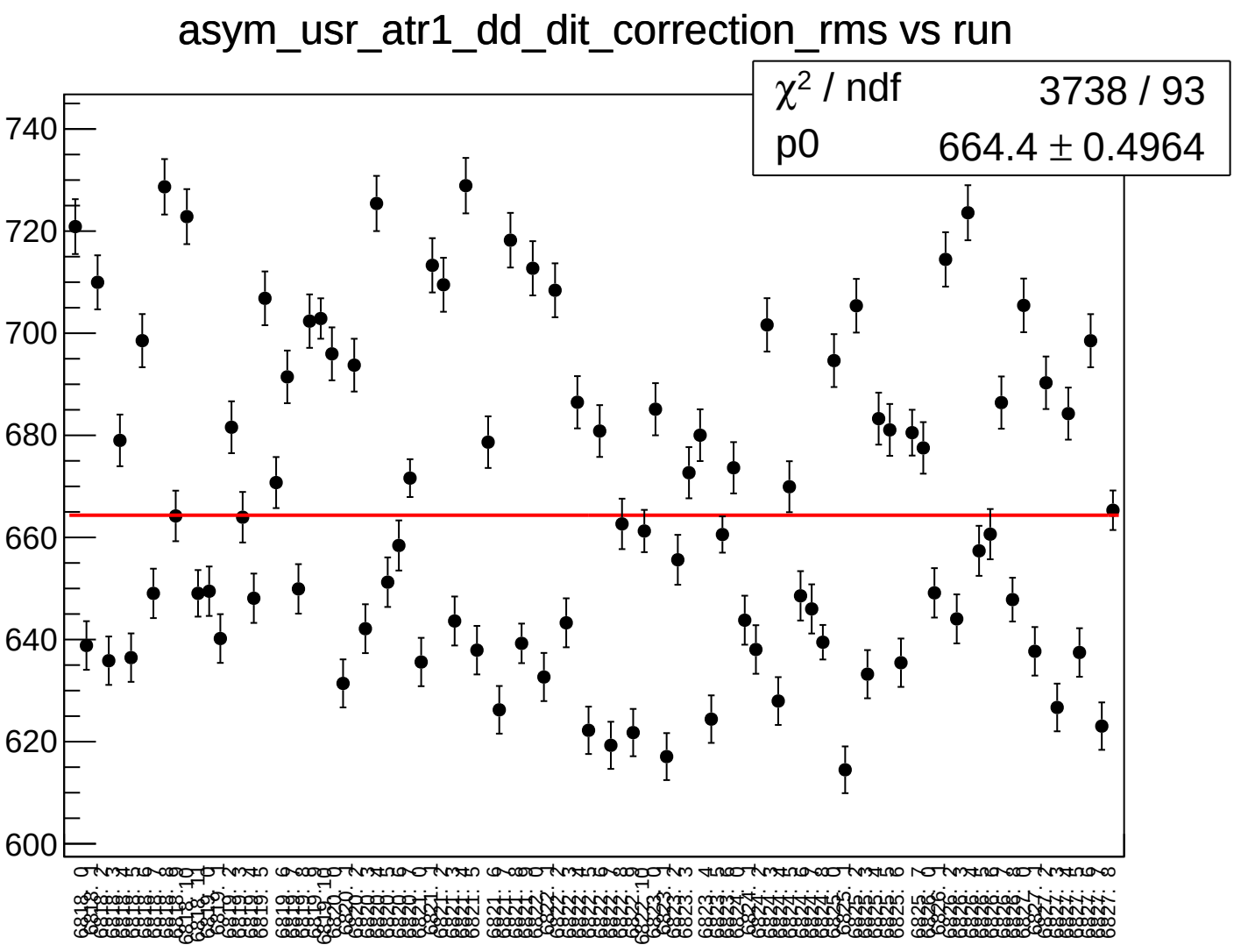

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 66.52 / 93
p0 −1454 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 153.2
Std Dev 40.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

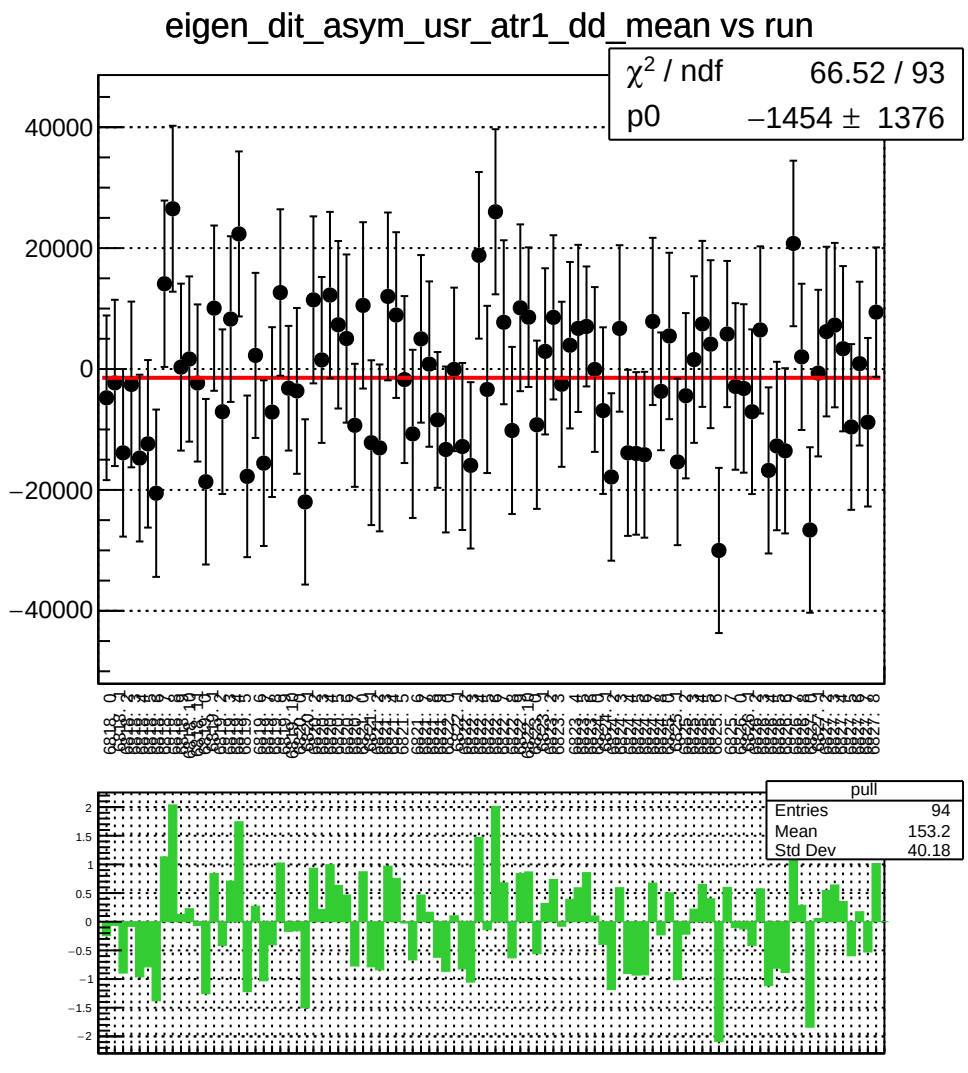

pull1D
Entries 94
Mean −0.003453
Std Dev 0.8412
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

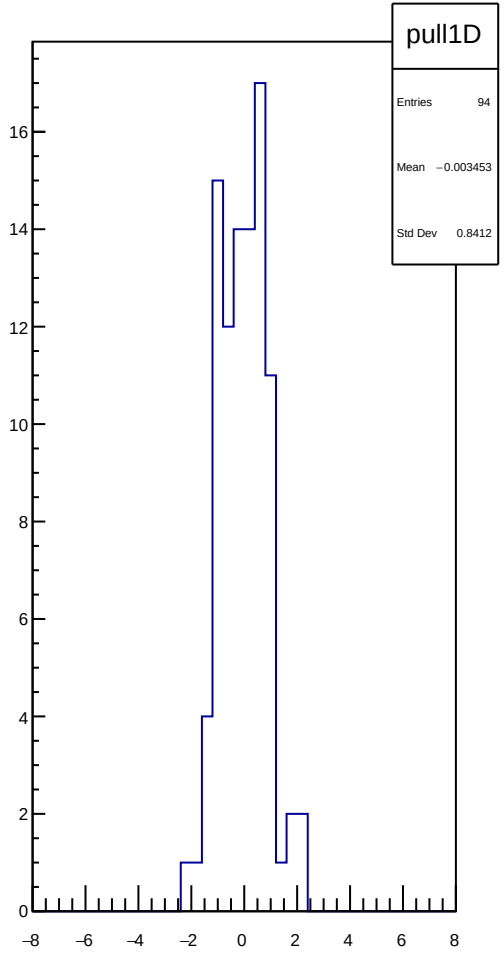

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.6 / 93
p0 1304 ± 0.973
1340
1320
1300
1280
1260

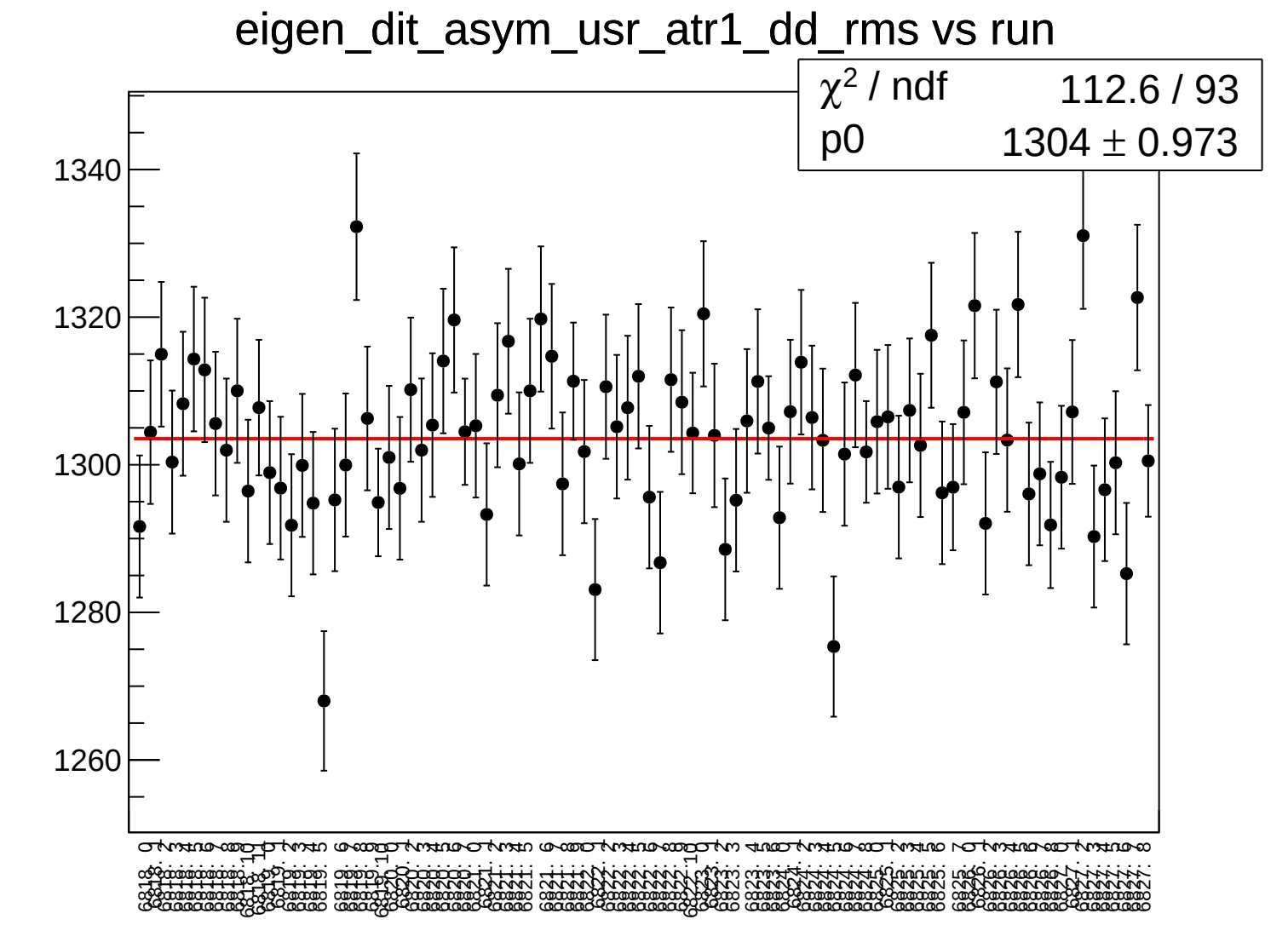

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 70.56 / 93
p0 979 ± 702
pull
Entries 94
Mean −98.81
Std Dev 0

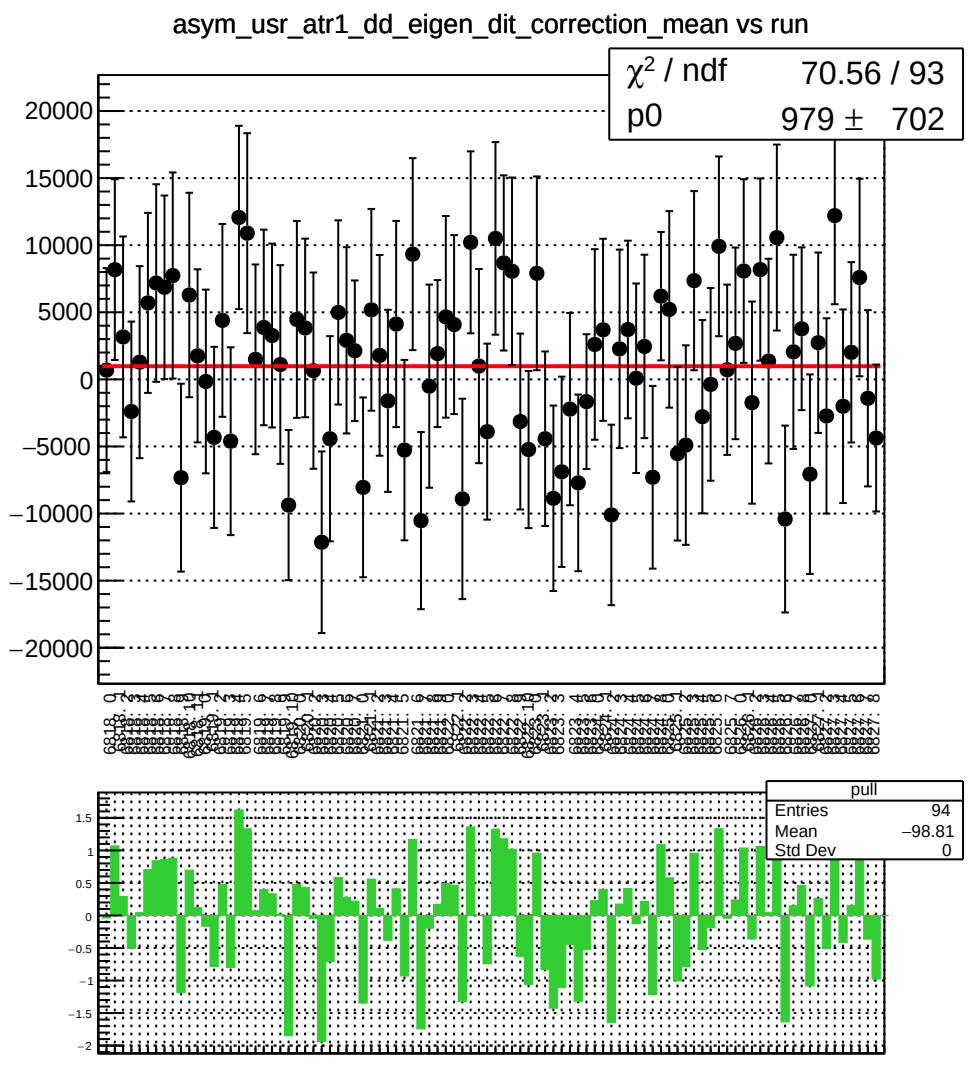

pull1D
Entries 94
Mean 0.008936
Std Dev 0.8663

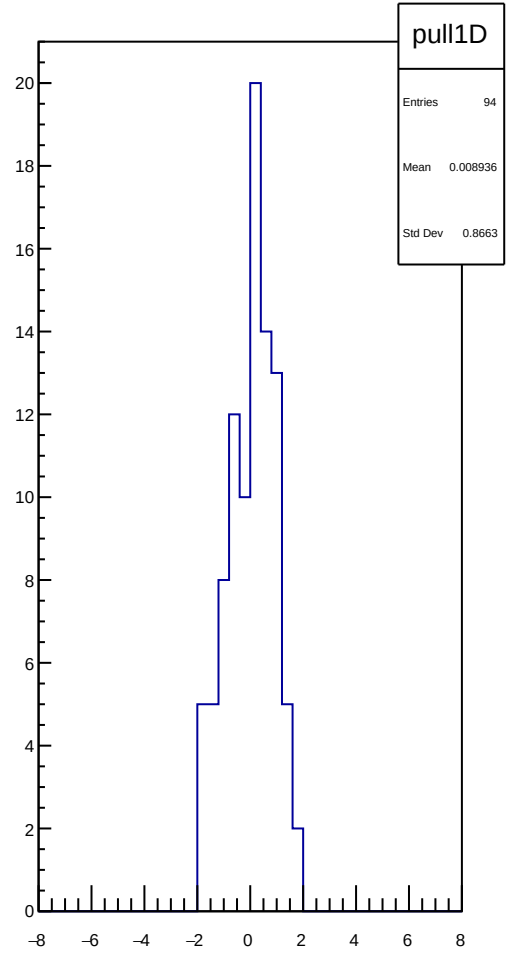

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 3738 / 93
p0 664.4 ± 0.4964
740
720
700
680
660
640
620
600

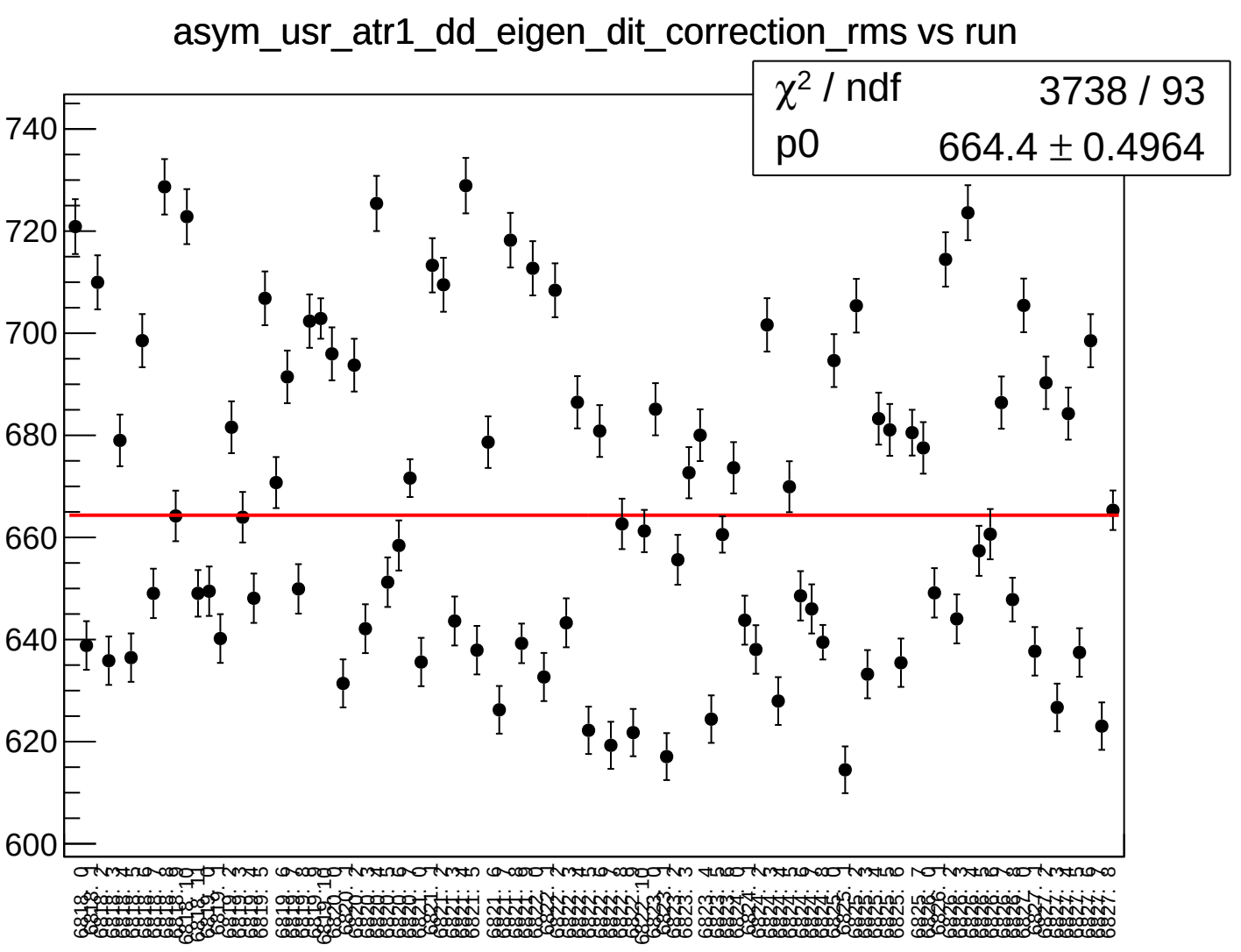

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 66.52 / 93
p0 −1454 ± 1376
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 153.2
Std Dev 40.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

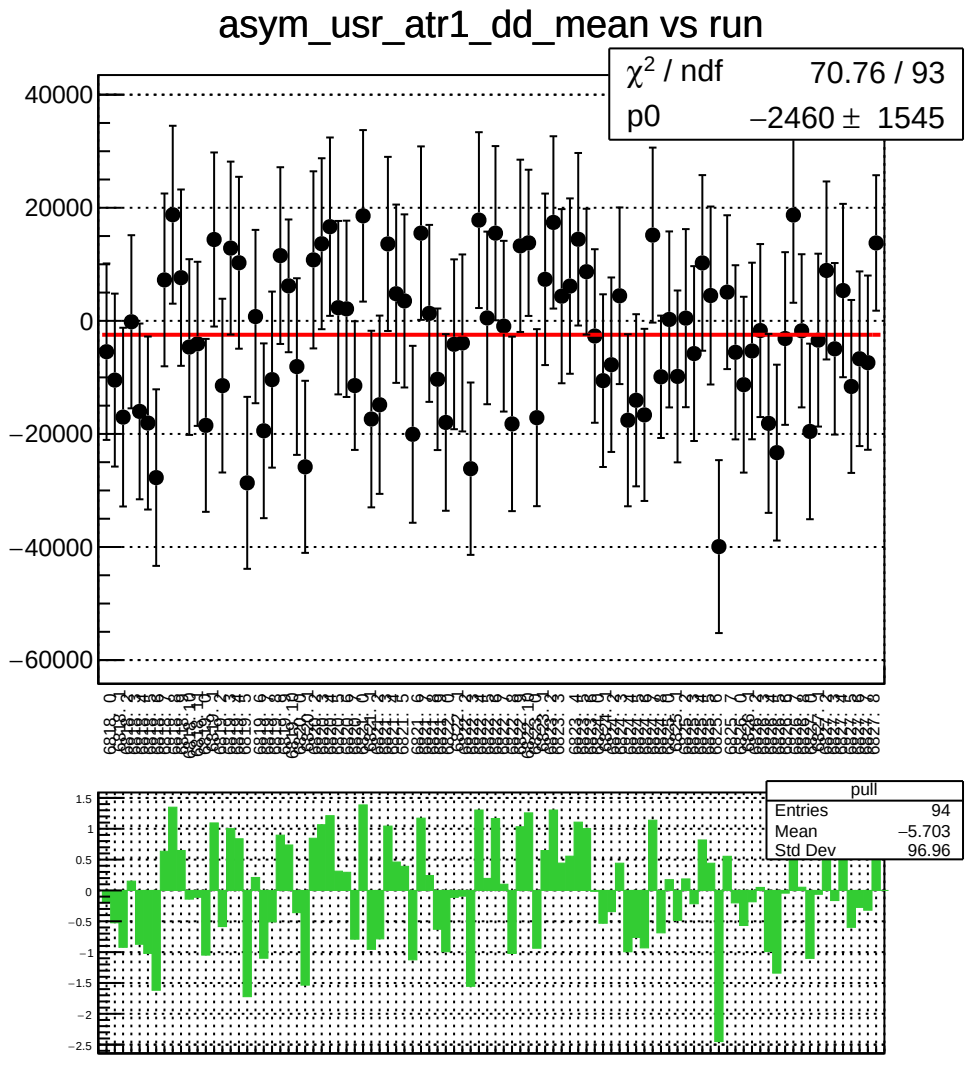

pull1D
Entries 94
Mean −0.003453
Std Dev 0.8412
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

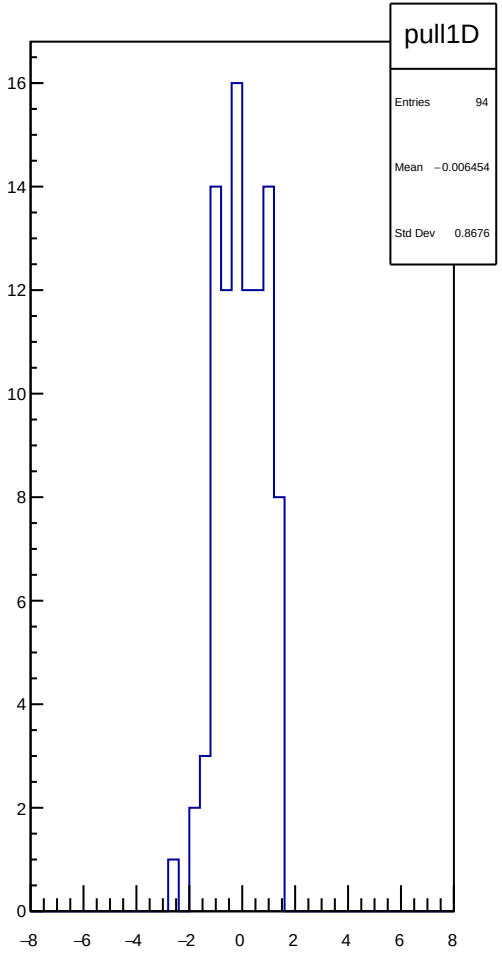

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 112.6 / 93
p0 1304 ± 0.973
1340
1320
1300
1280
1260

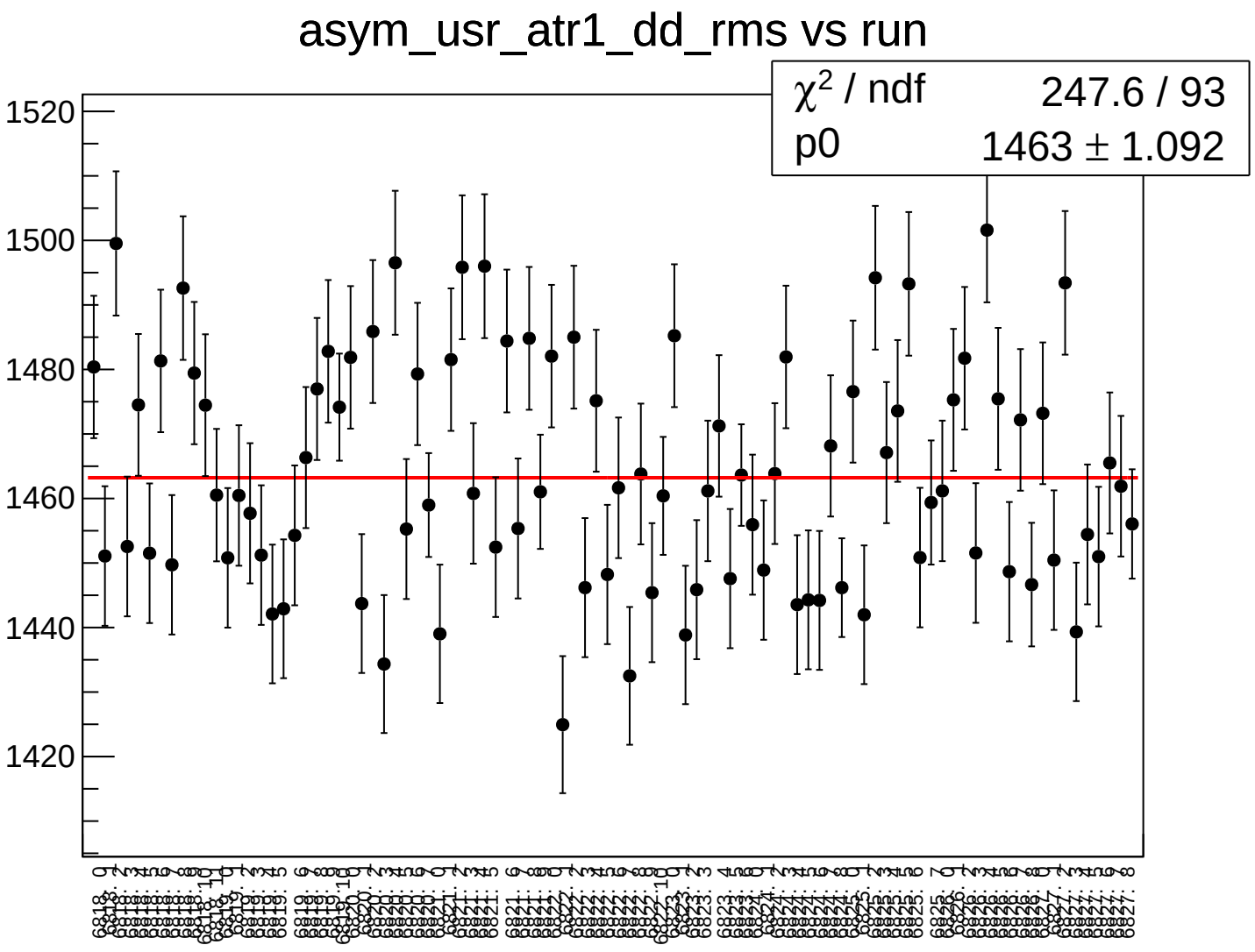

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.56 / 93
p0 979 ± 702
pull
Entries 94
Mean −98.81
Std Dev 0

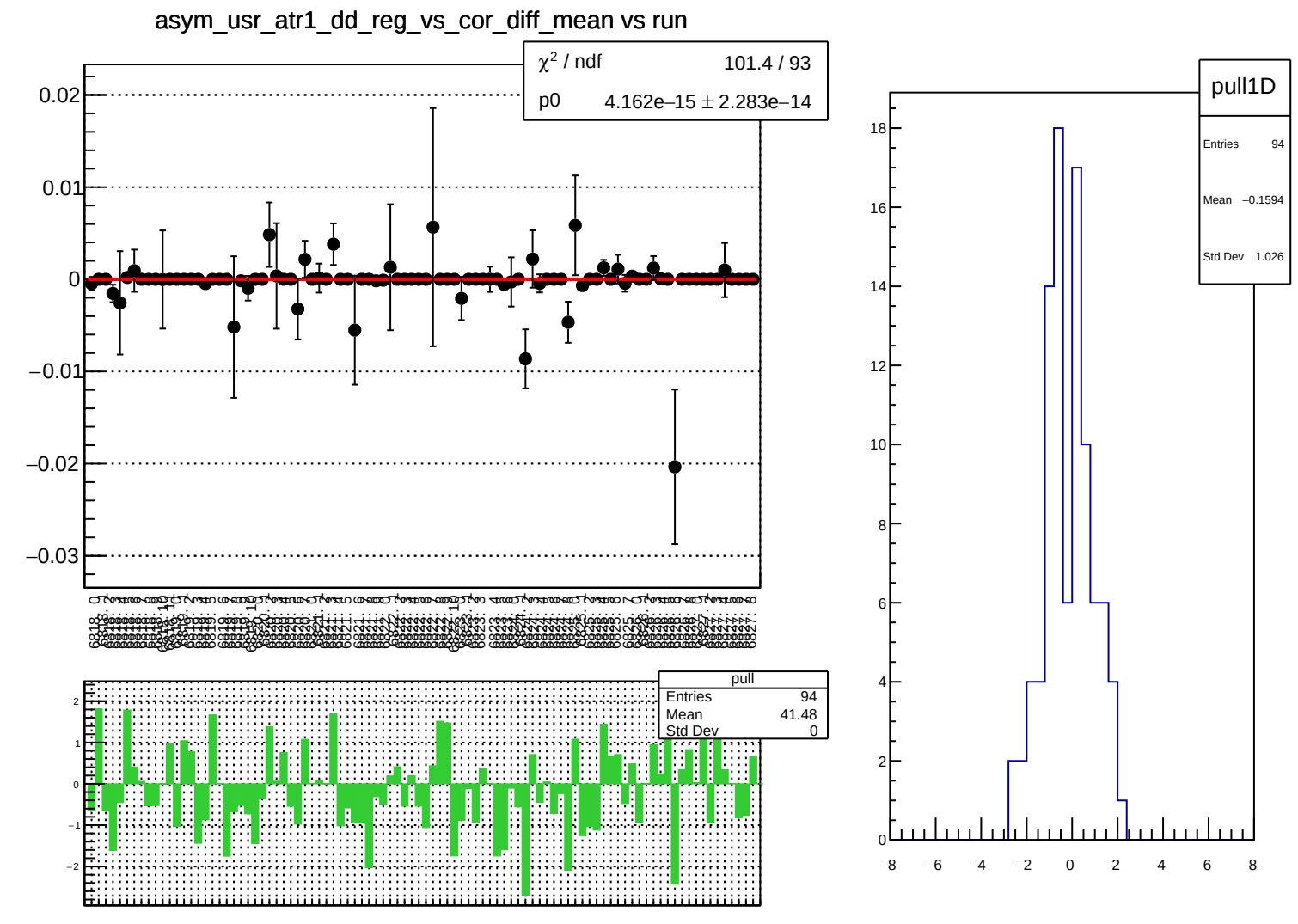

pull1D
Entries 94
Mean 0.008936
Std Dev 0.8663

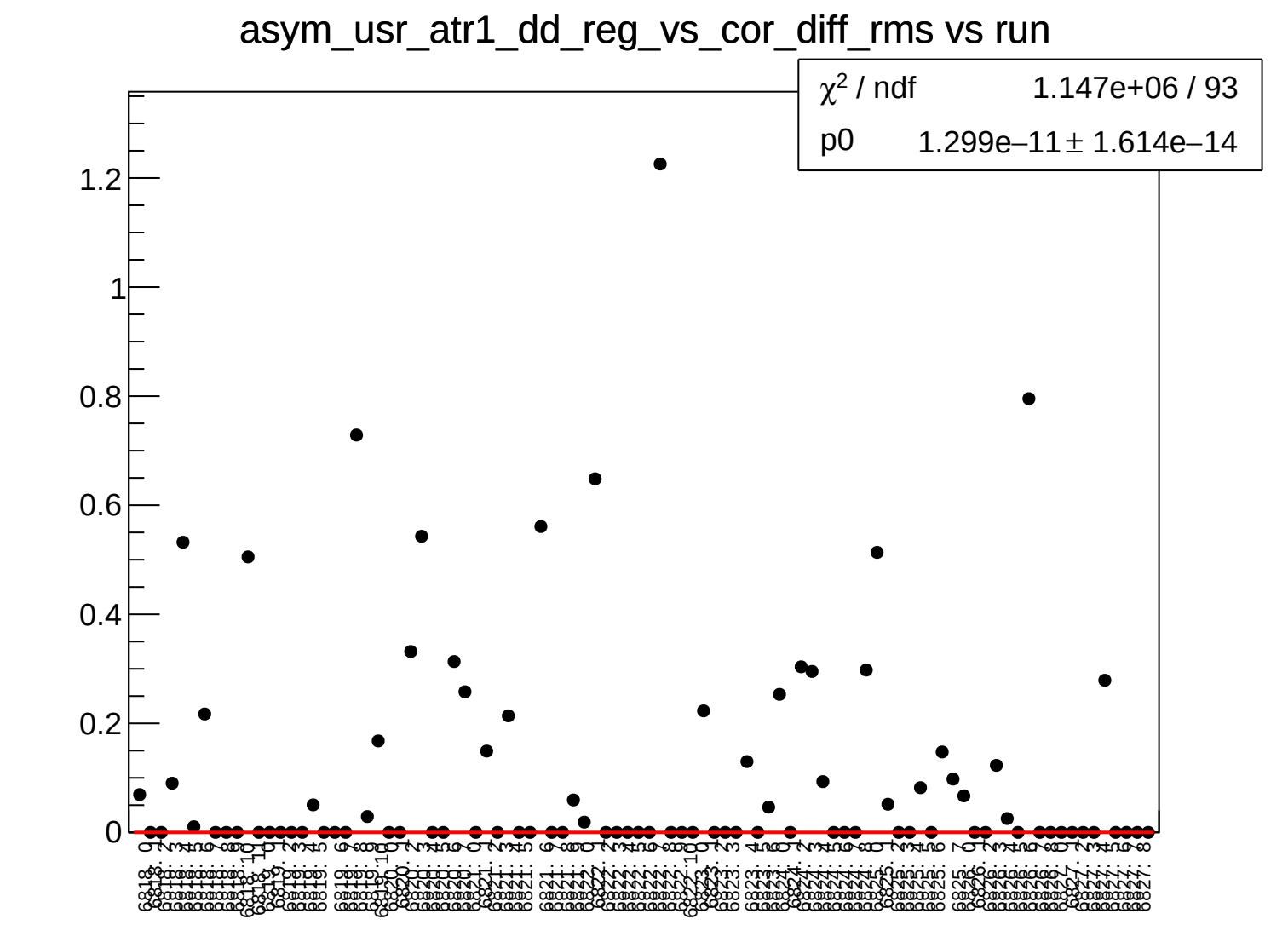

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 3738 / 93
p0 664.4 ± 0.4964
740
720
700
680
660
640
620
600

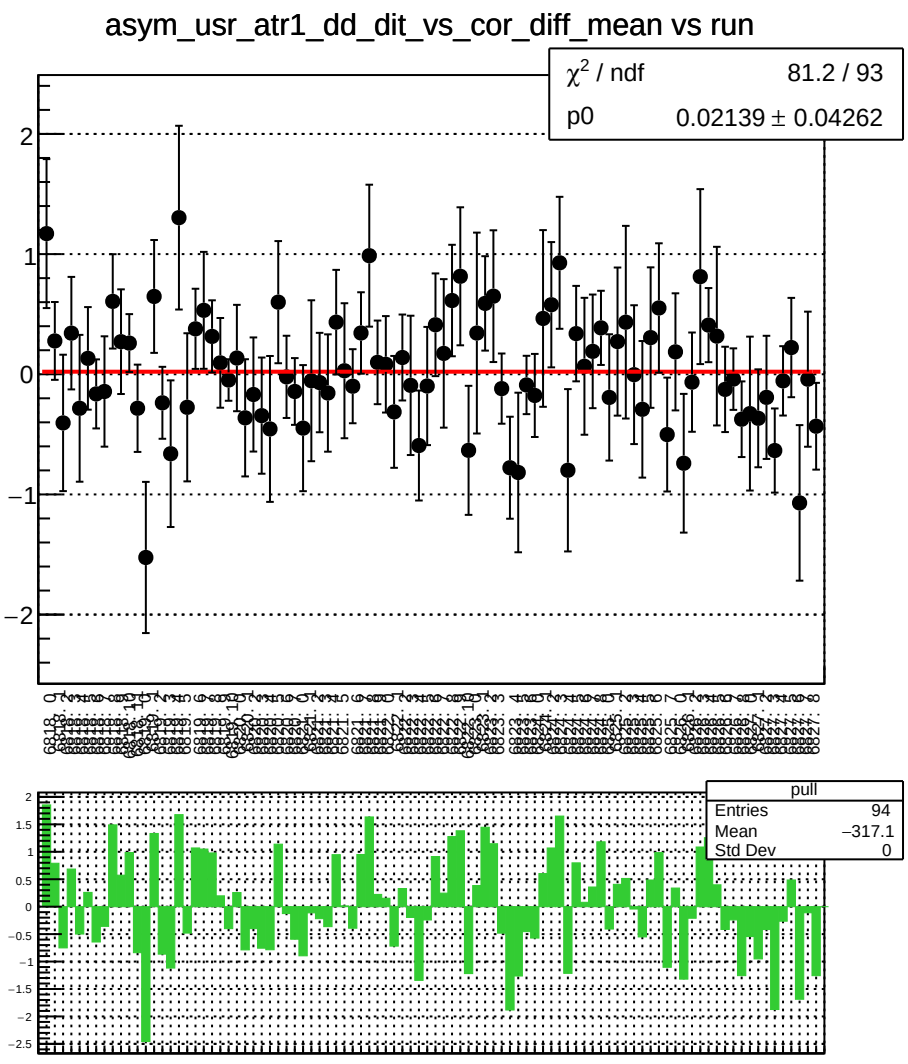

asym_usr_atr1_dd_mean vs run
χ² / ndf 70.76 / 93
p0 −2460 ± 1545
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −5.703
Std Dev 96.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

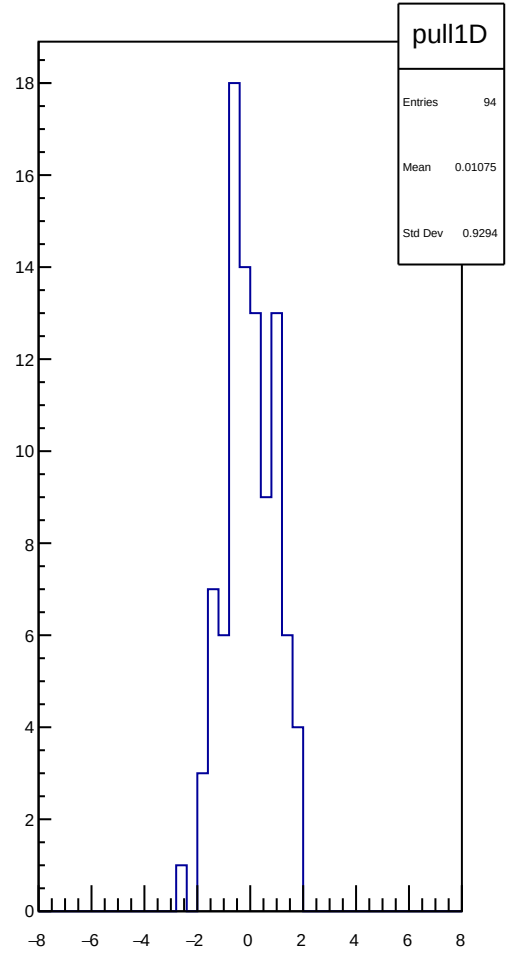

pull1D
Entries 94
Mean −0.006454
Std Dev 0.8676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

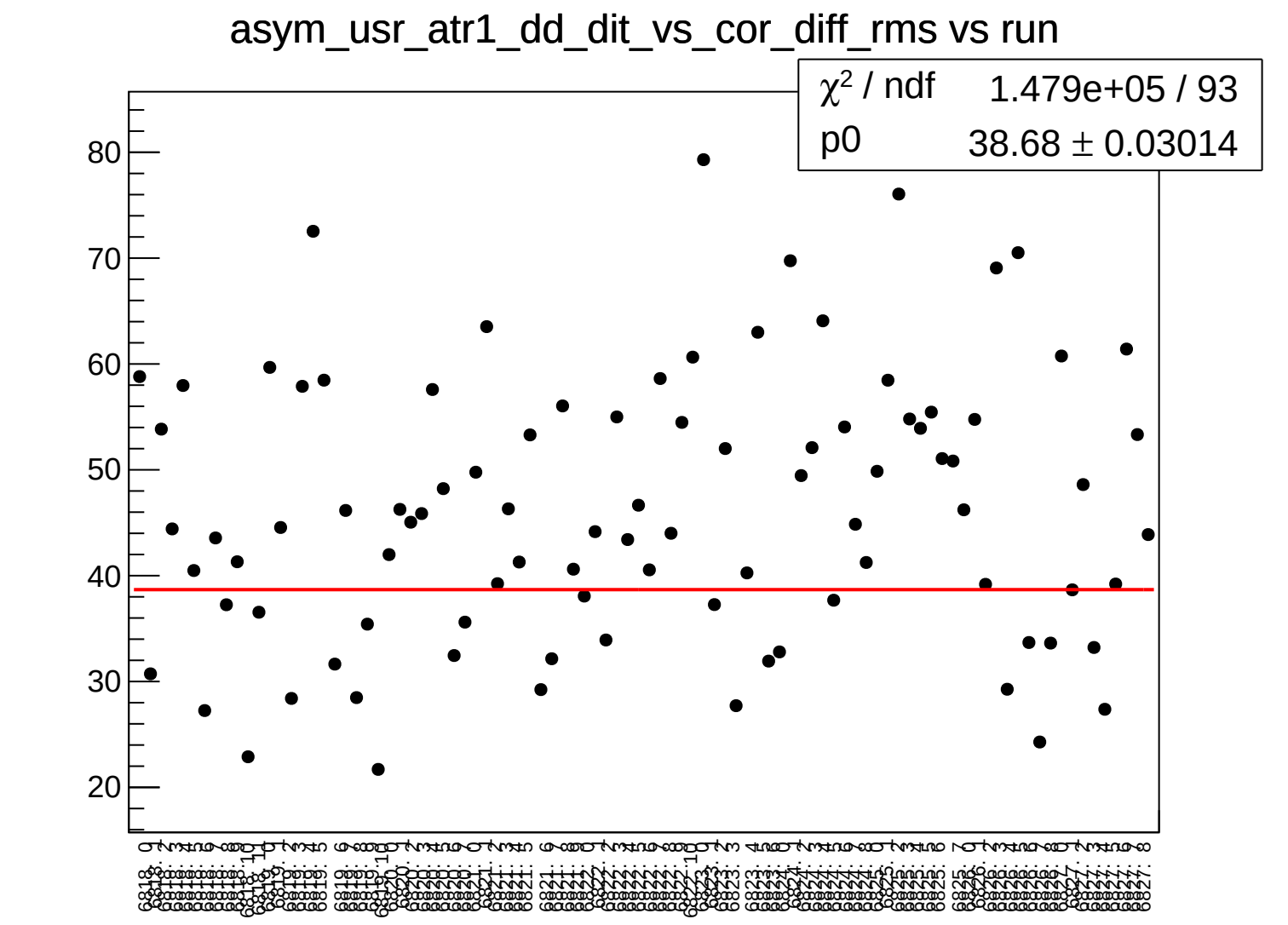

asym_usr_atr1_dd_rms vs run
χ² / ndf 247.6 / 93
p0 1463 ± 1.092
1520
1500
1480
1460
1440
1420

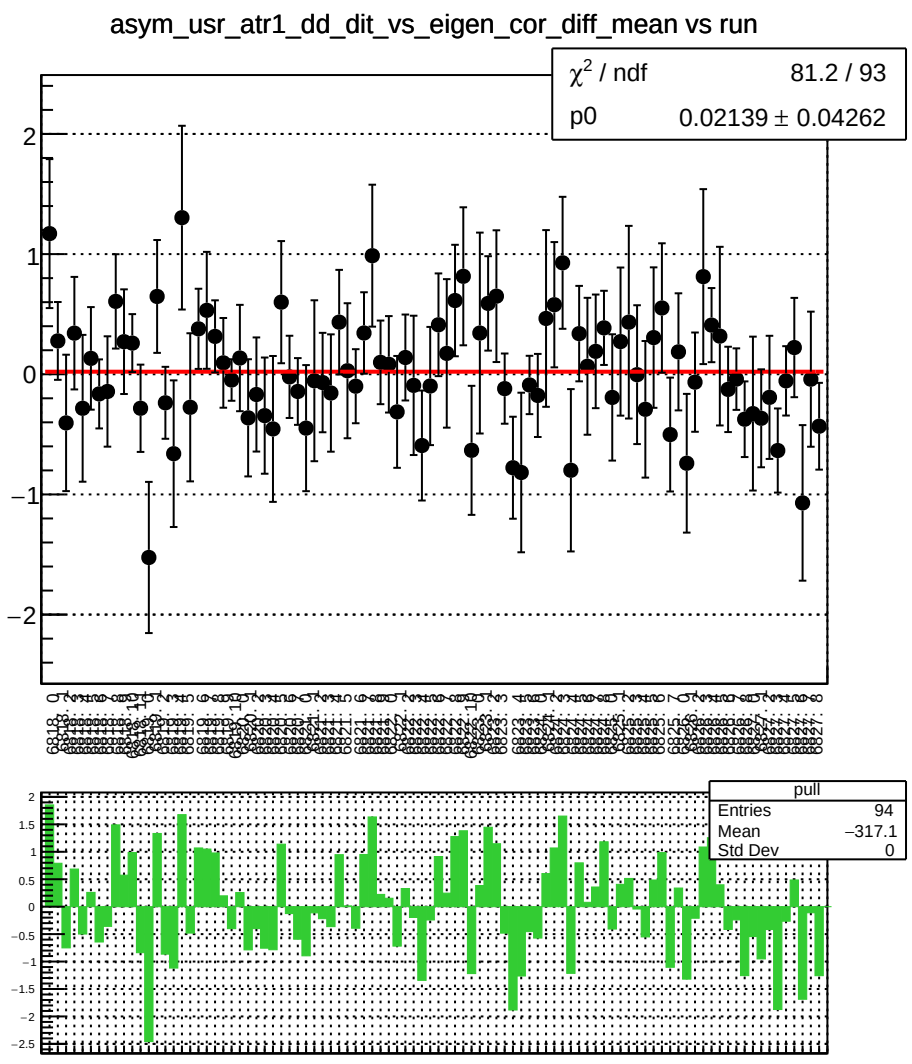

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.4 / 93
p0 4.162e−15 ± 2.283e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 41.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1594
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

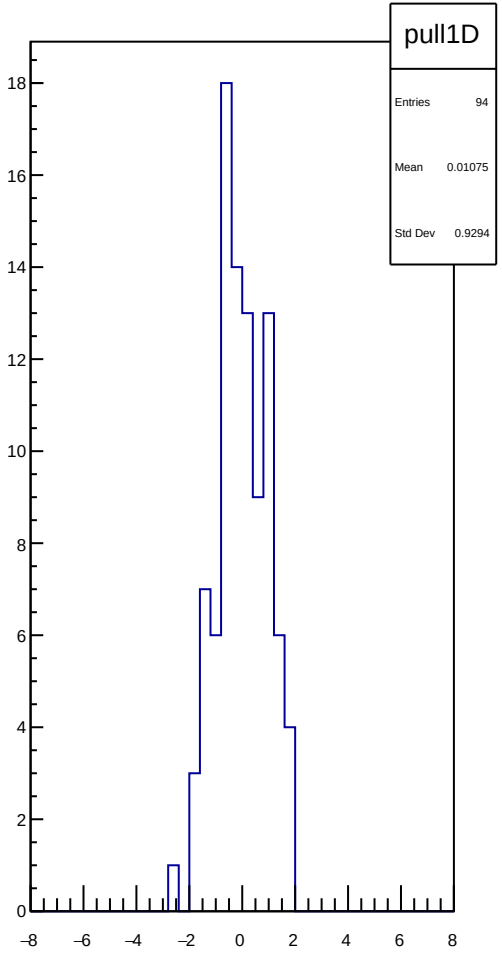

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.147e+06 / 93
p0 1.299e−11 ± 1.614e−14
1.2
1
0.8
0.6
0.4
0.2
0

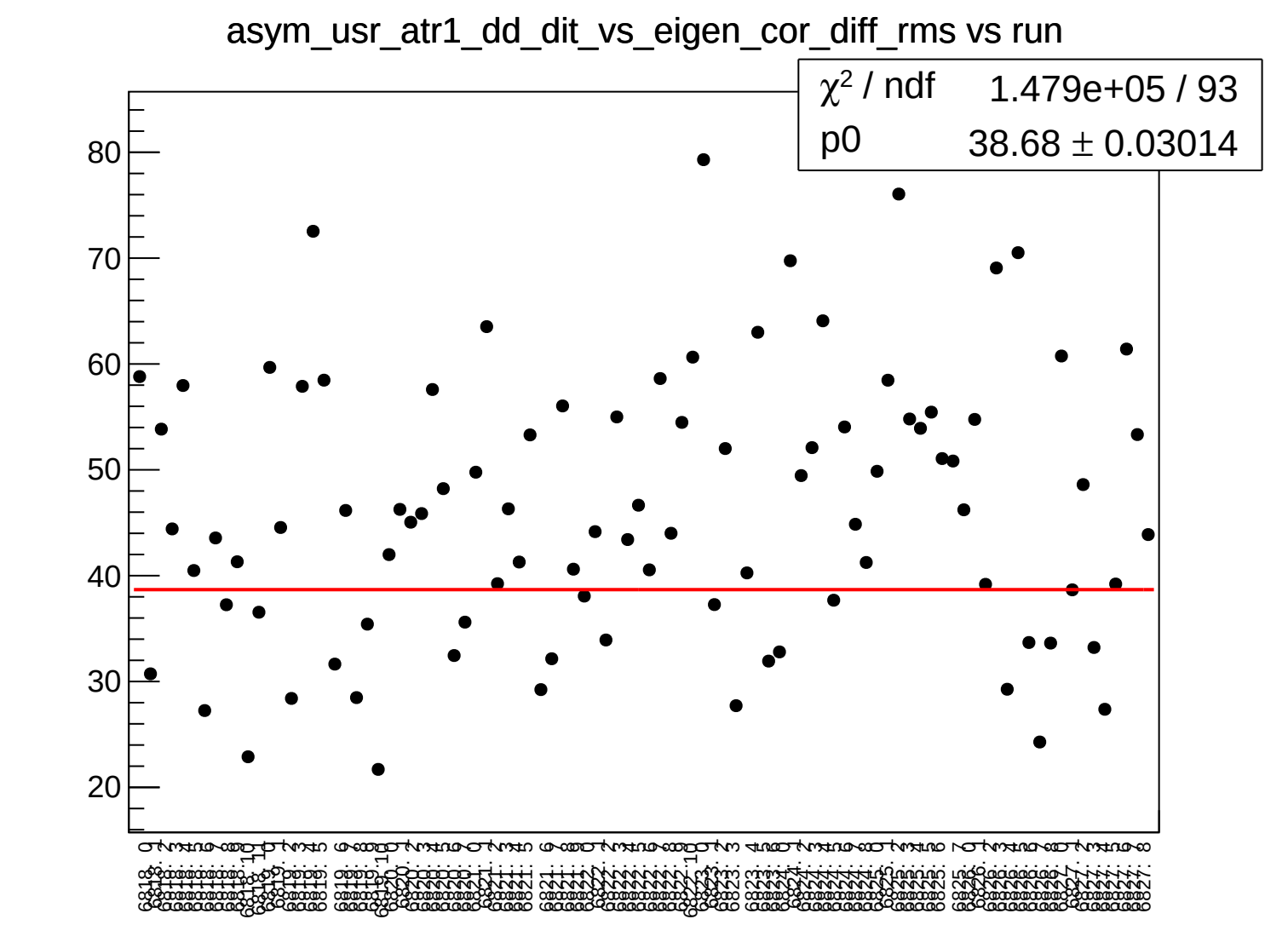

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 93
p0 0.02139 ± 0.04262
pull
Entries 94
Mean −317.1
Std Dev 0

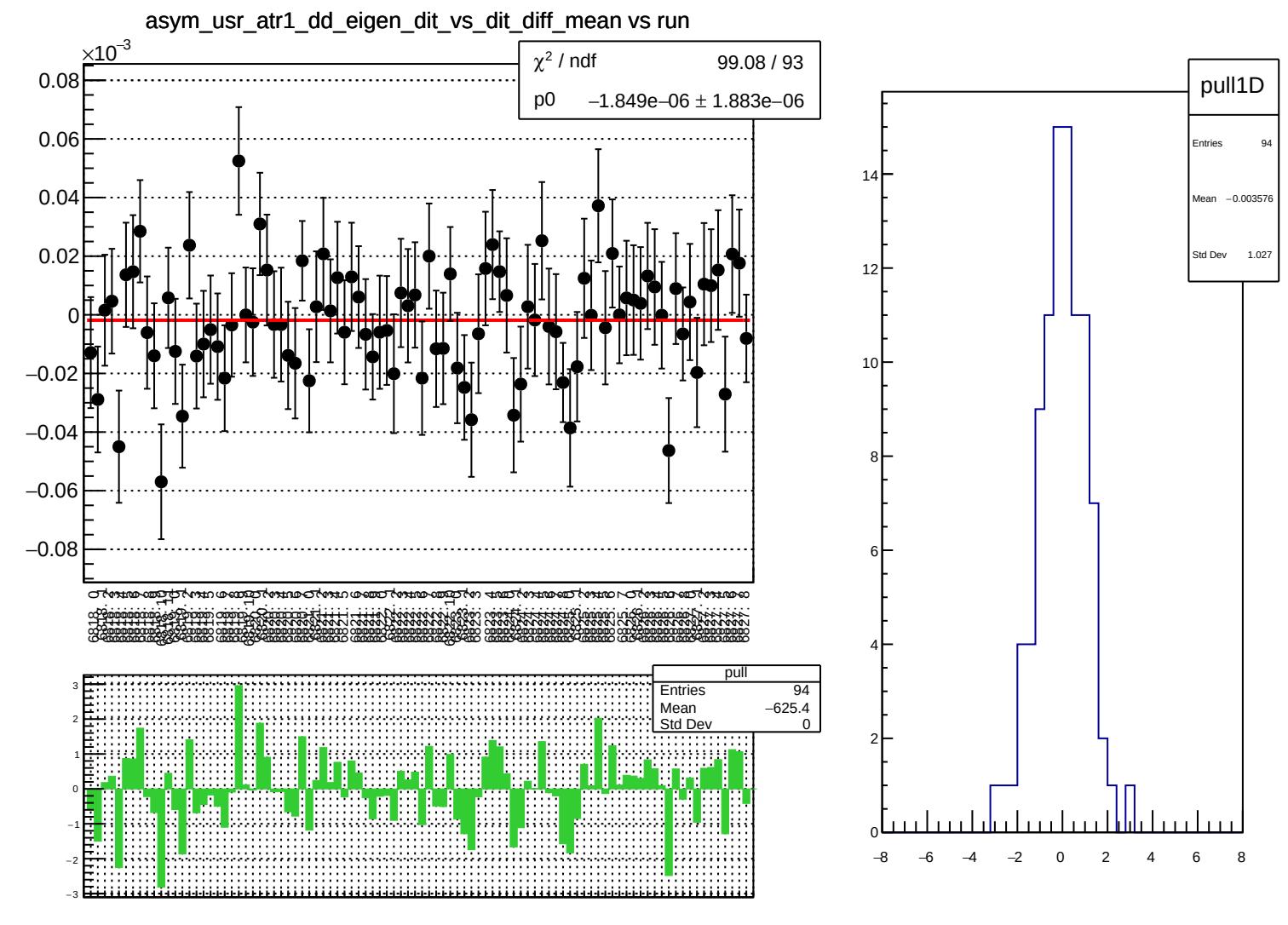

pull1D
Entries 94
Mean 0.01075
Std Dev 0.9294

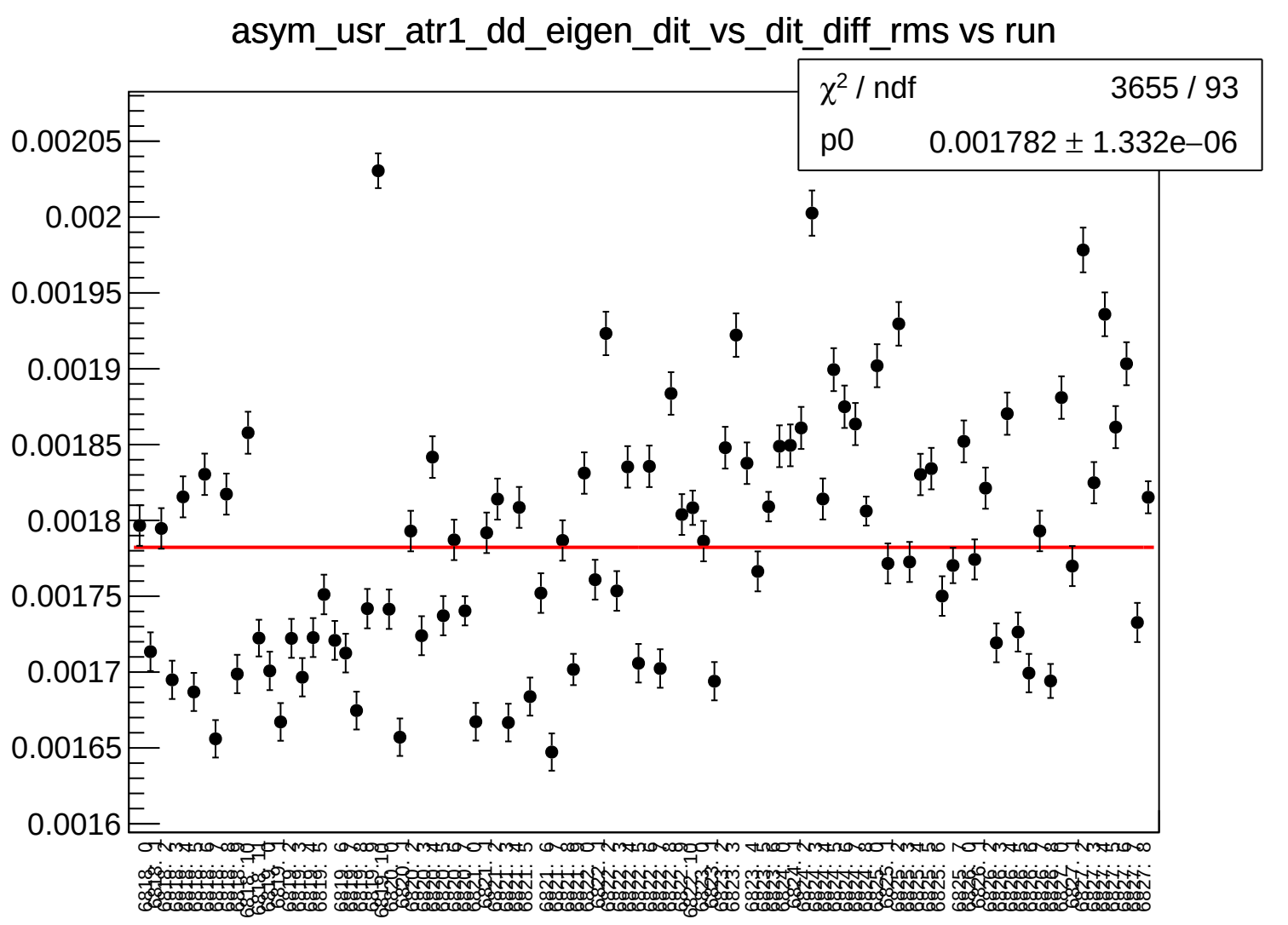

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 93
p0 38.68 ± 0.03014
80
70
60
50
40
30
20

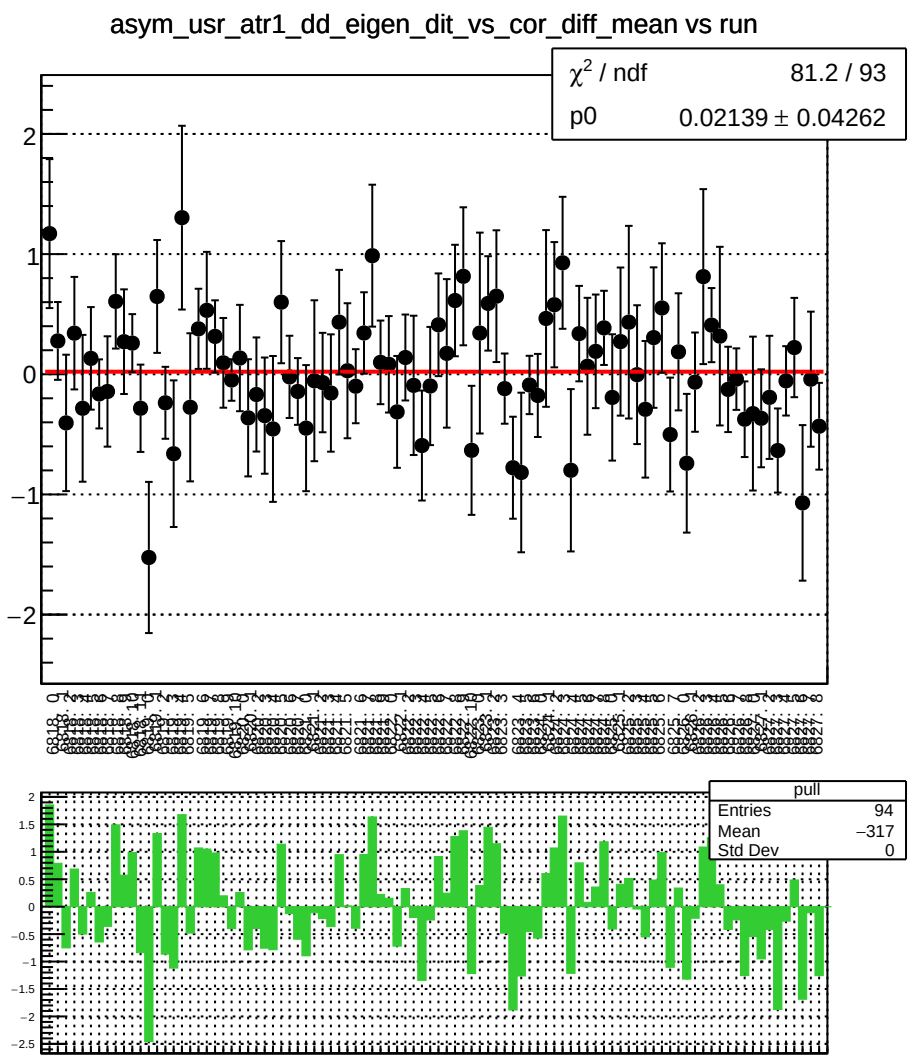

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 93
p0 0.02139 ± 0.04262
pull
Entries 94
Mean −317.1
Std Dev 0

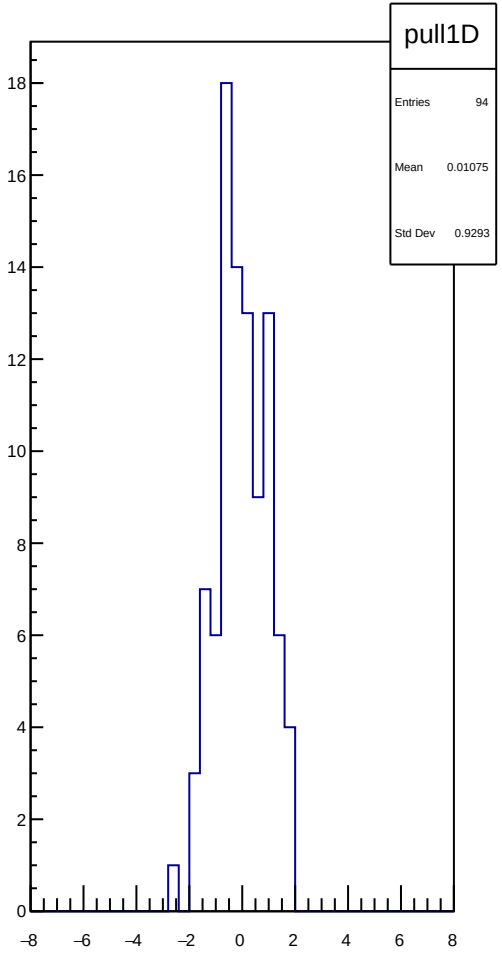

pull1D
Entries 94
Mean 0.01075
Std Dev 0.9294

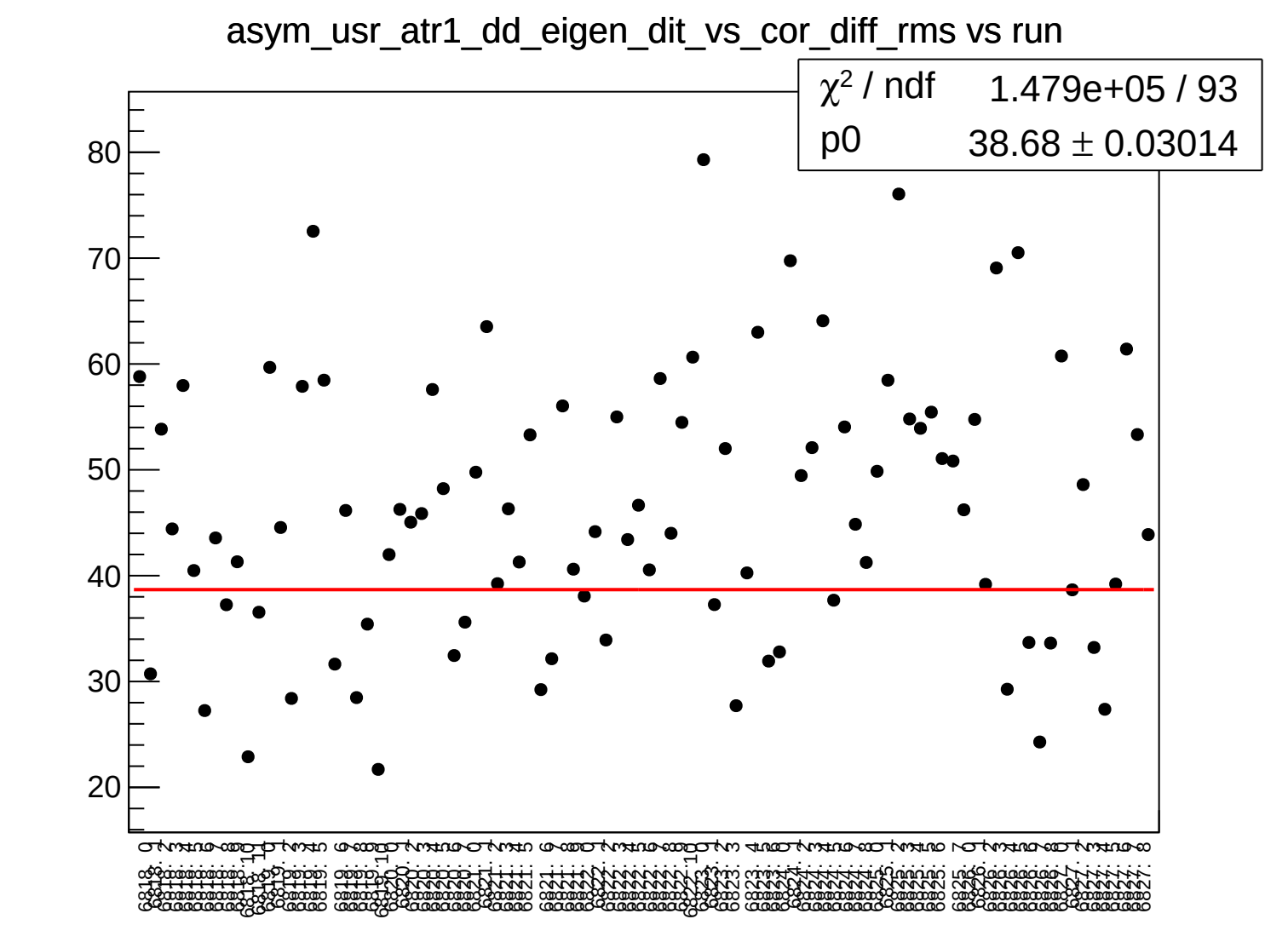

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 93
p0 38.68 ± 0.03014
80
70
60
50
40
30
20

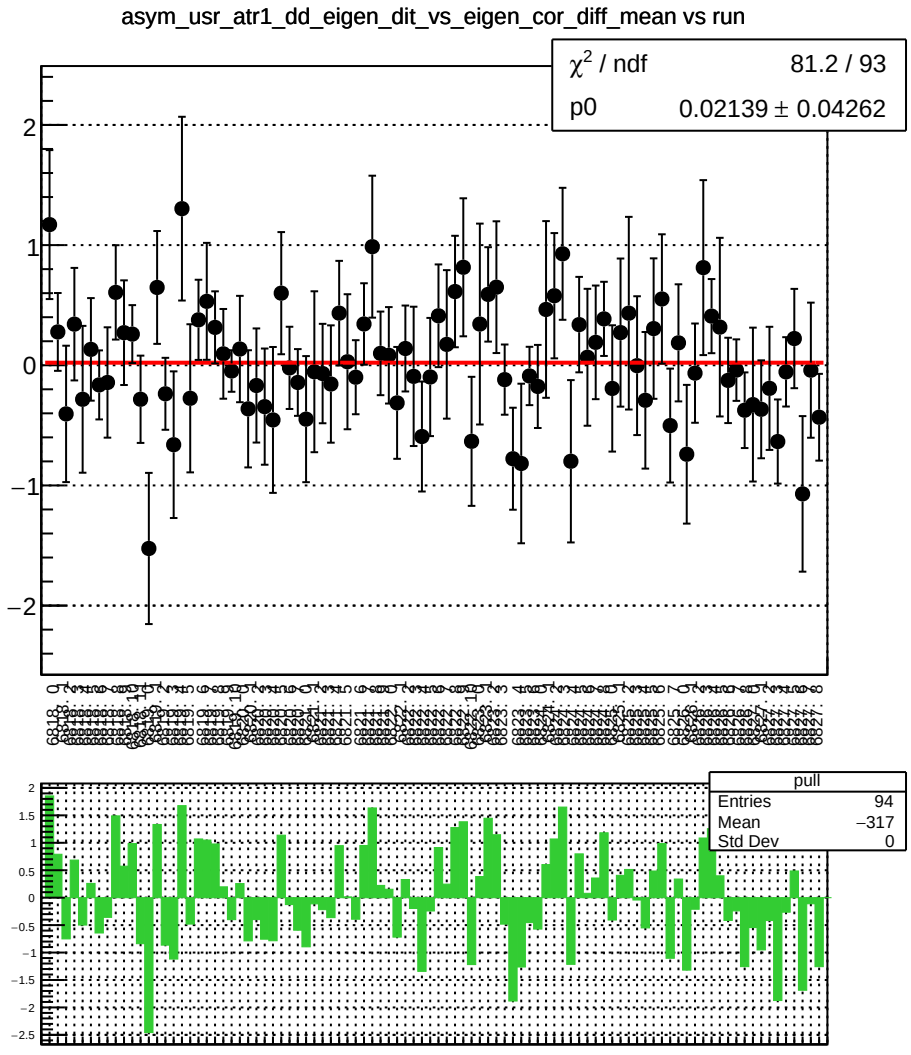

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.08 / 93
p0 −1.849e−06 ± 1.883e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean −625.4
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003576
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

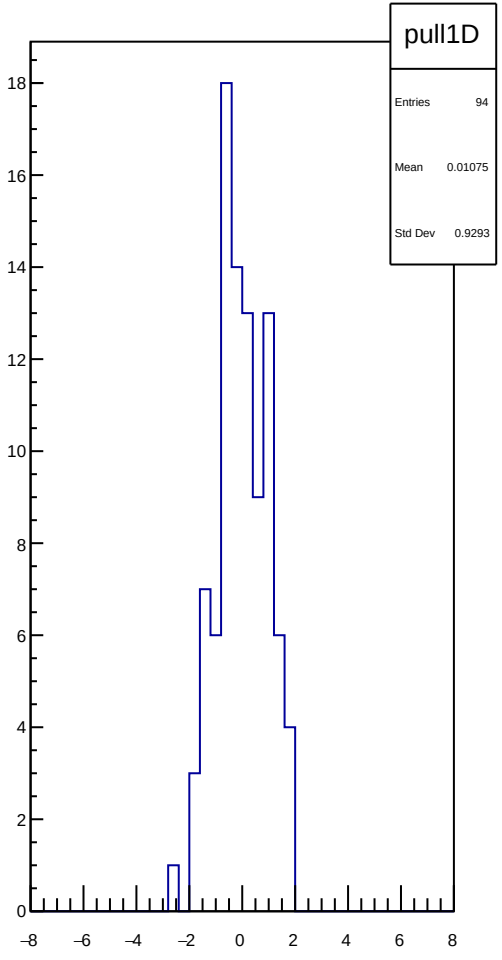

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3655 / 93
p0 0.001782 ± 1.332e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

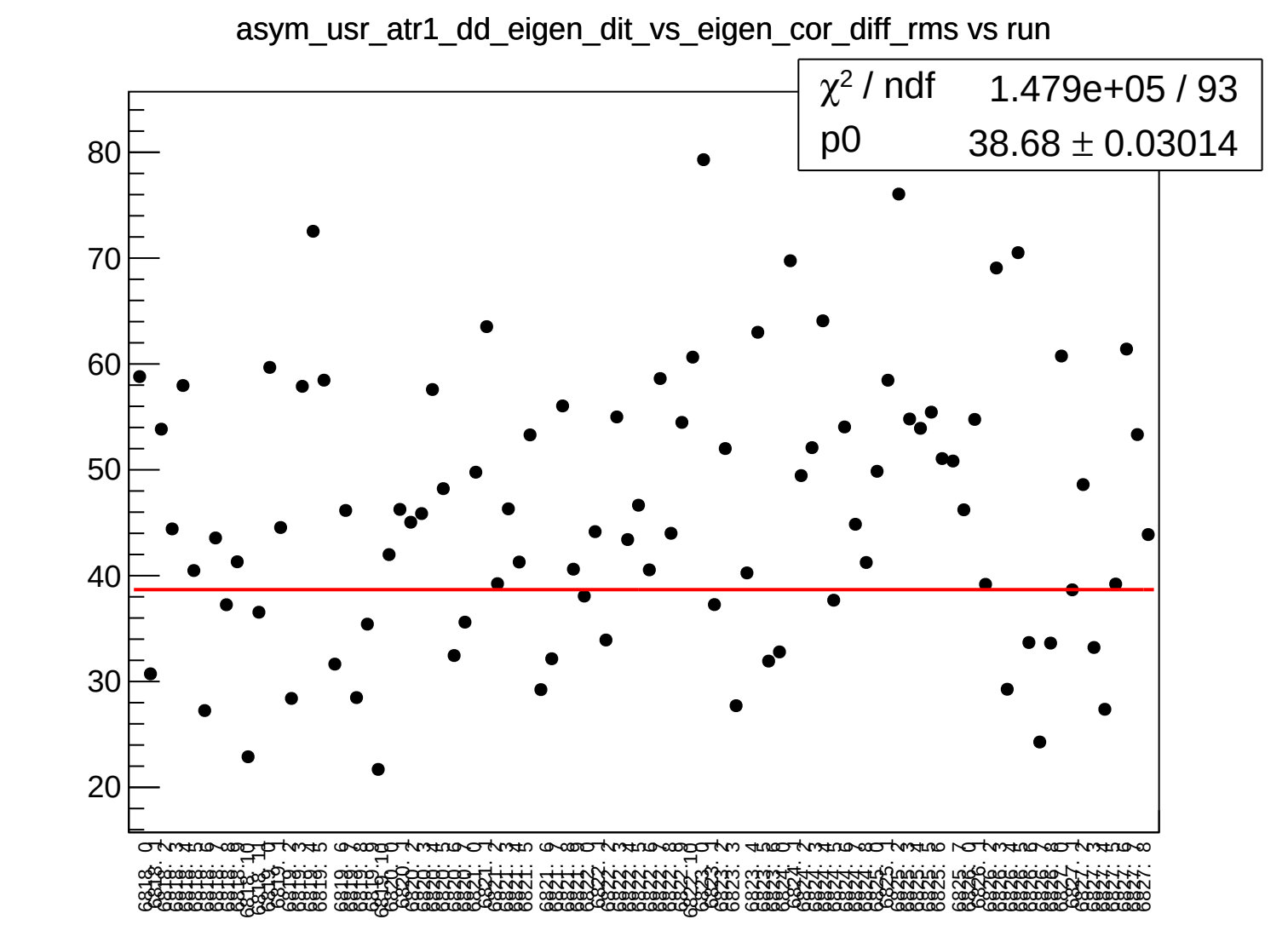

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.2 / 93
p0 0.02139 ± 0.04262
pull
Entries 94
Mean −317
Std Dev 0

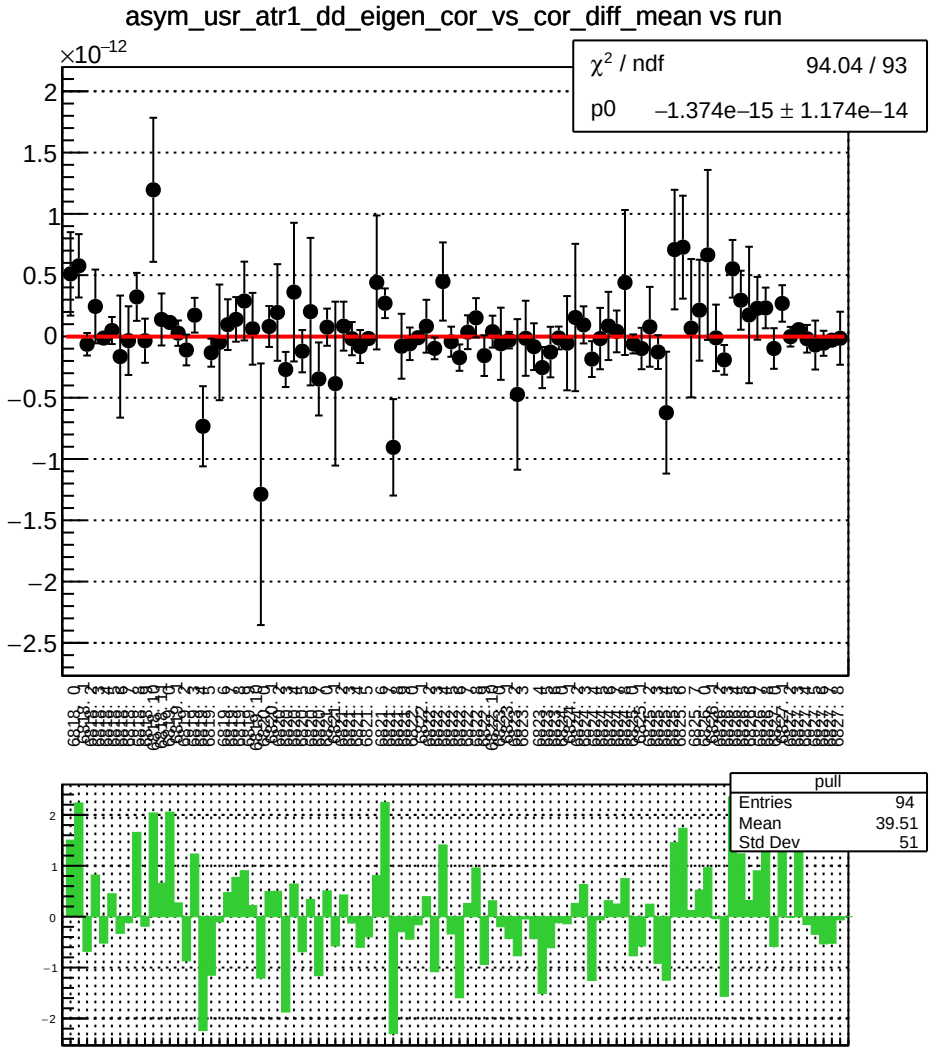

pull1D
Entries 94
Mean 0.01075
Std Dev 0.9293

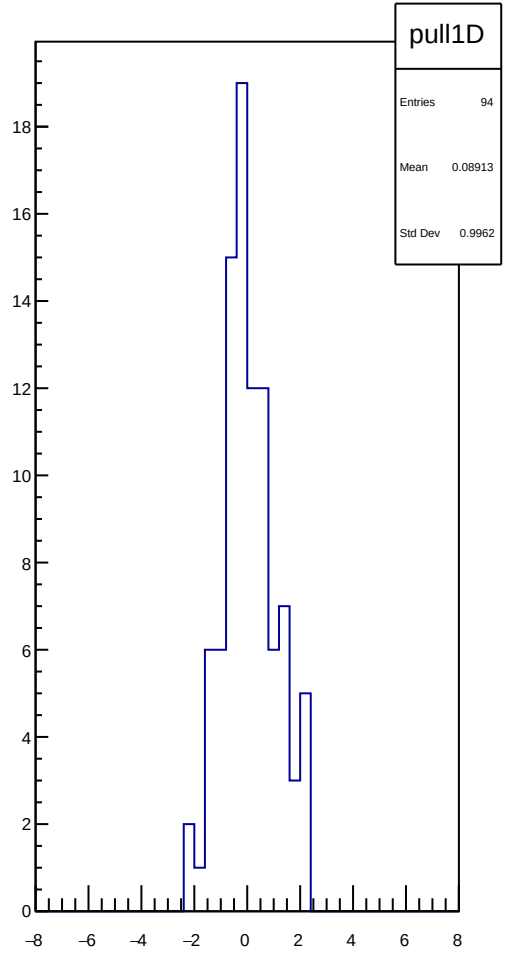

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 93
p0 38.68 ± 0.03014
80
70
60
50
40
30
20

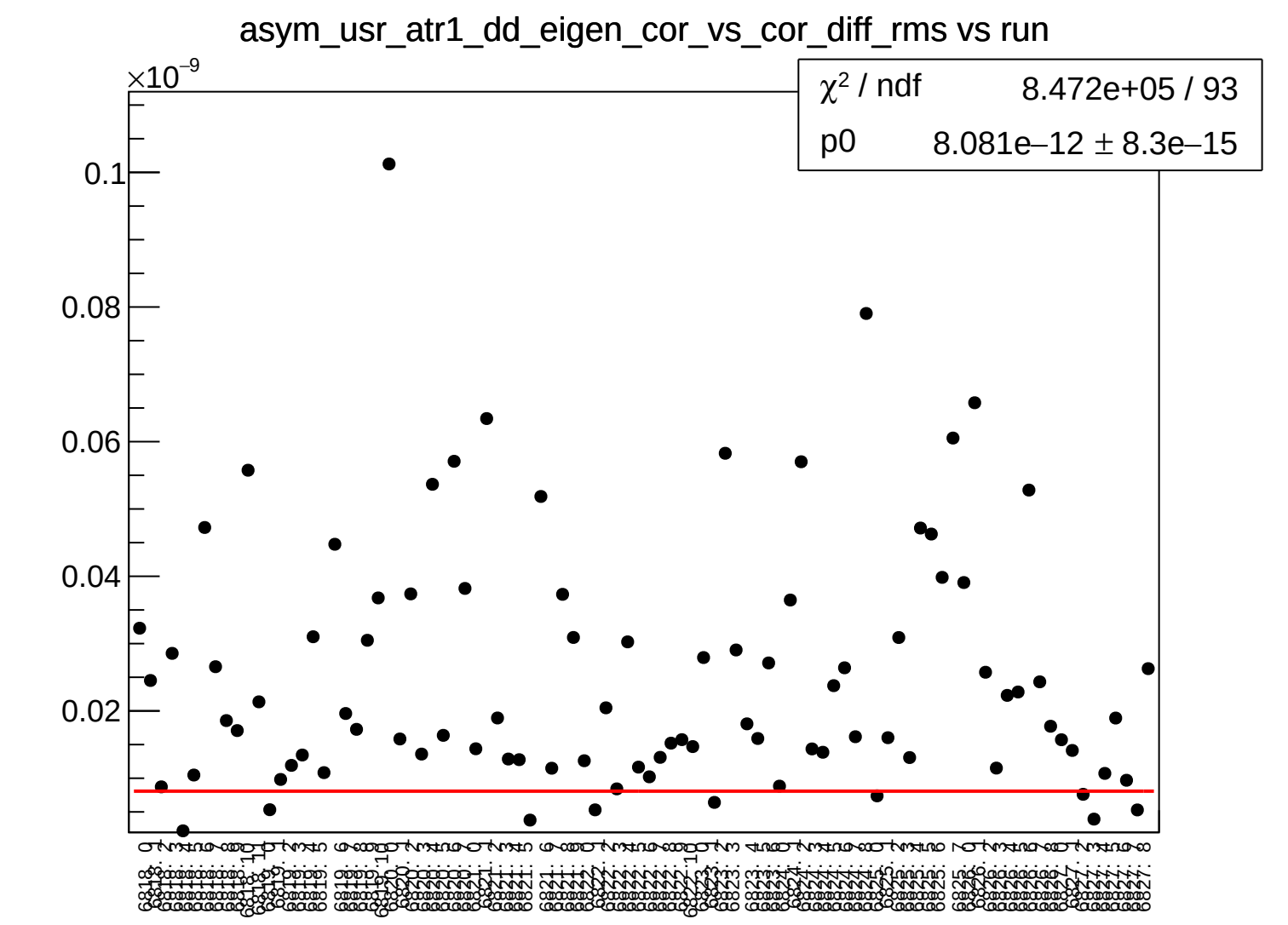

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.2 / 93
p0 0.02139 ± 0.04262
pull
Entries 94
Mean −317
Std Dev 0

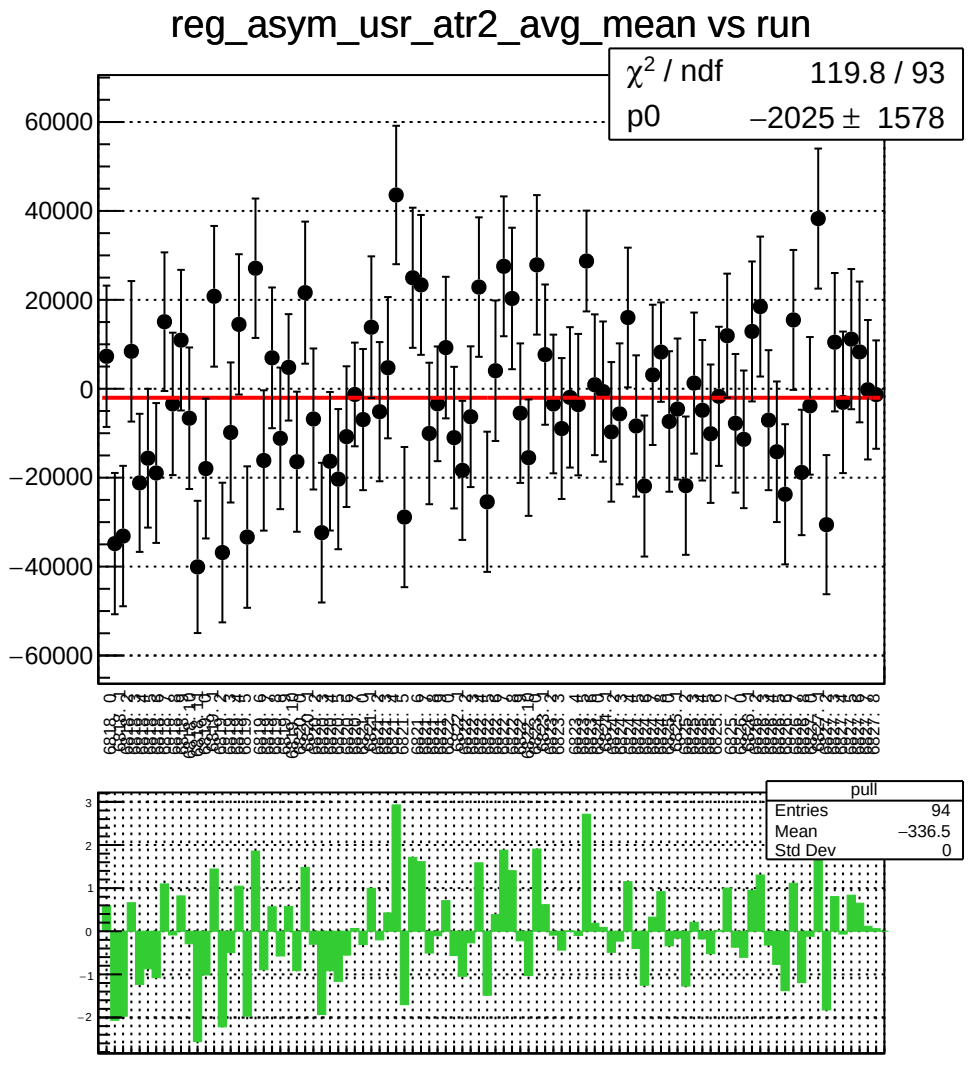

pull1D
Entries 94
Mean 0.01075
Std Dev 0.9293

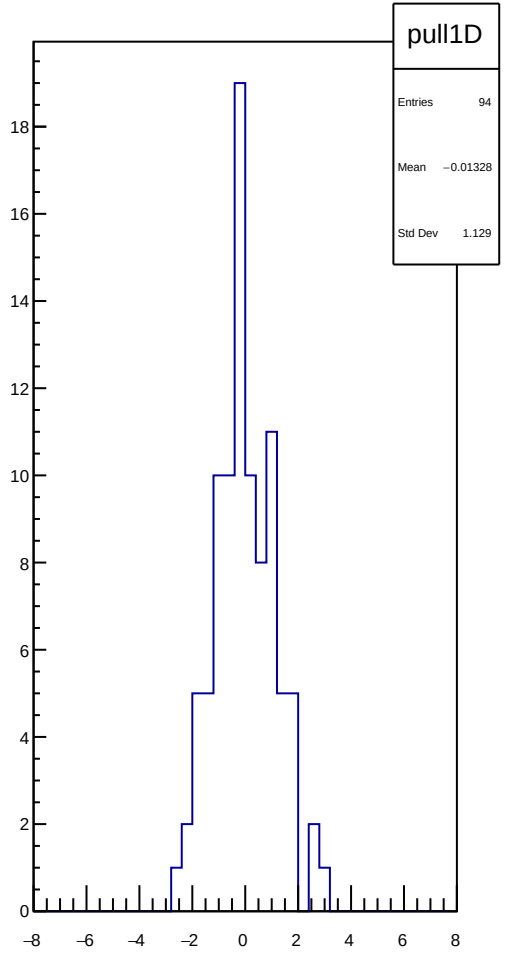

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.479e+05 / 93
p0 38.68 ± 0.03014
80
70
60
50
40
30
20

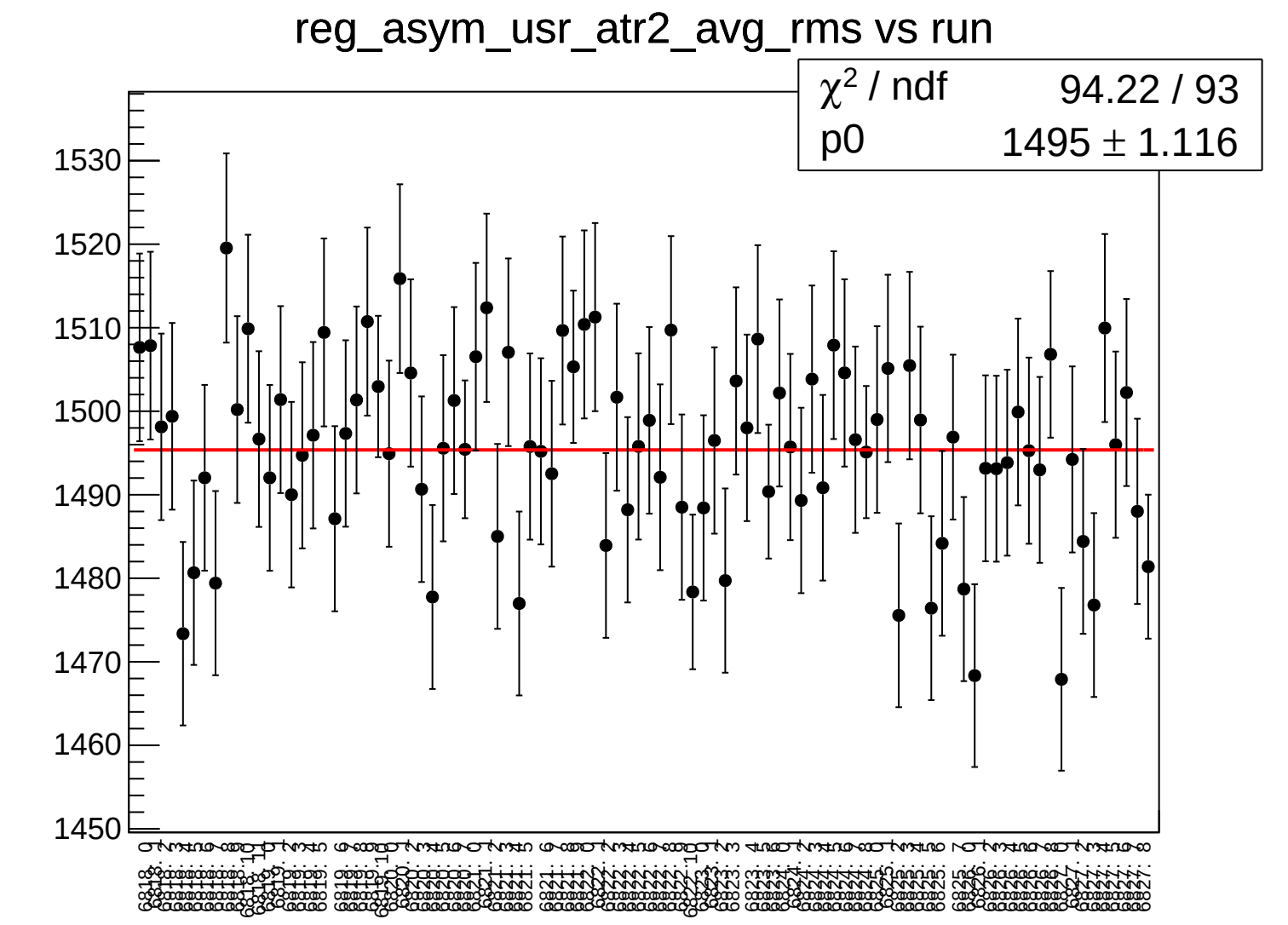

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.04 / 93
p0 −1.374e−15 ± 1.174e−14
pull
Entries 94
Mean 39.51
Std Dev 51

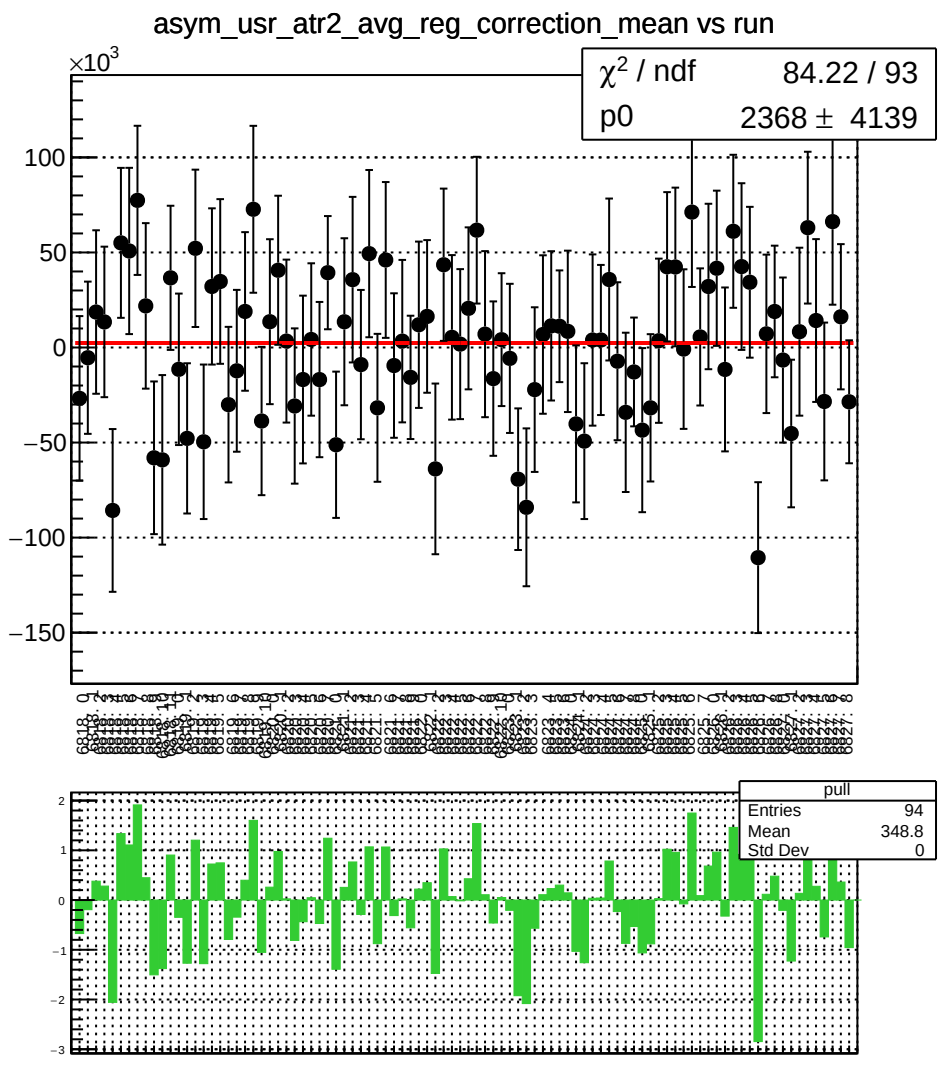

pull1D
Entries 94
Mean 0.08913
Std Dev 0.9962

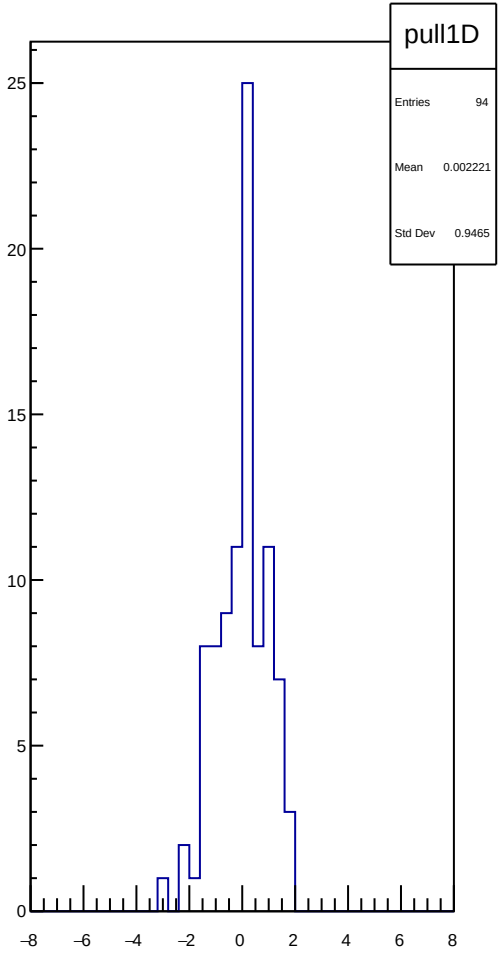

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.472e+05 / 93
p0 8.081e−12 ± 8.3e−15
0.1
0.08
0.06
0.04
0.02

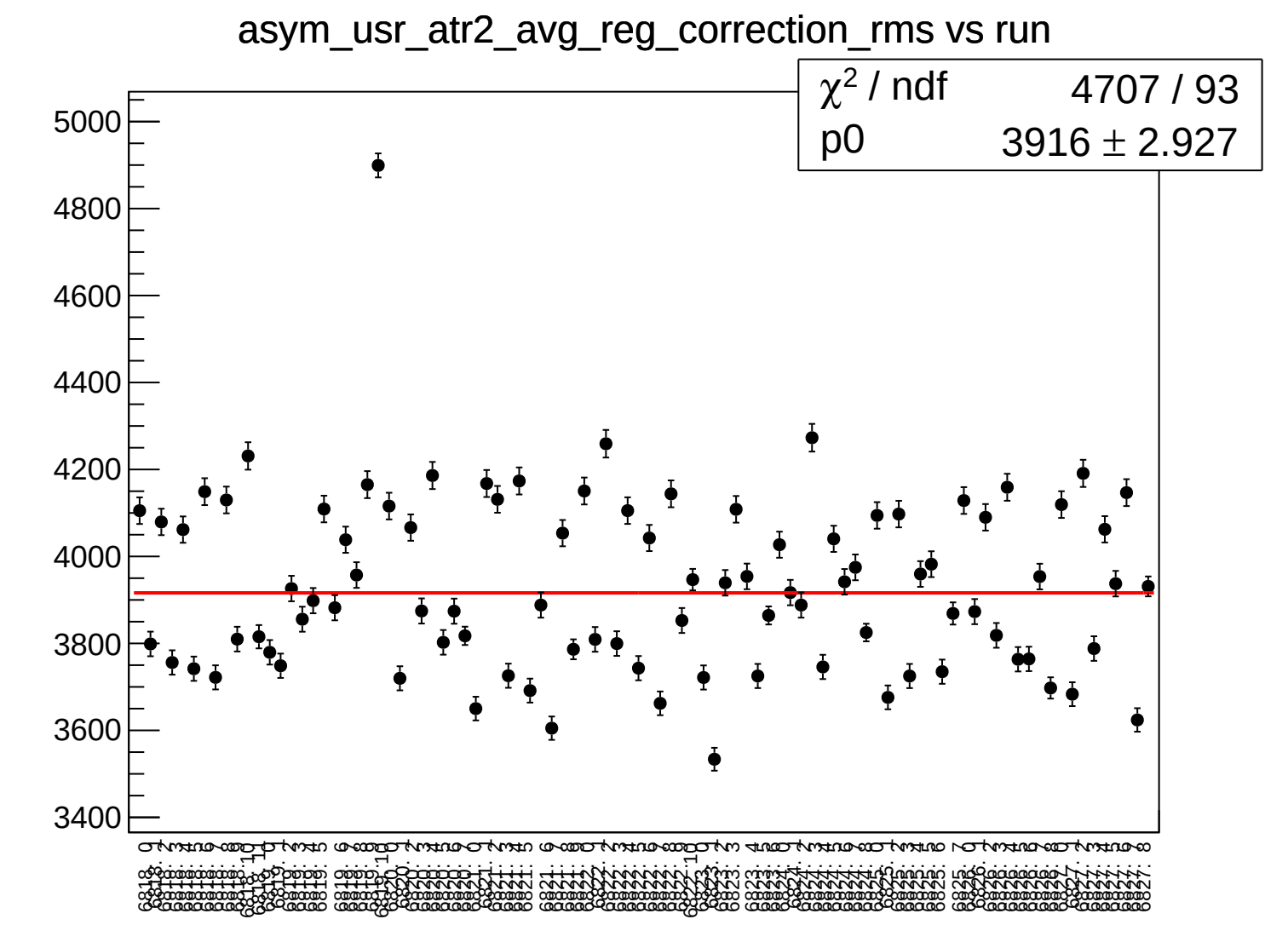

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 119.8 / 93
p0 −2025 ± 1578
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −336.5
Std Dev 0
3
2
1
0
−1
−2

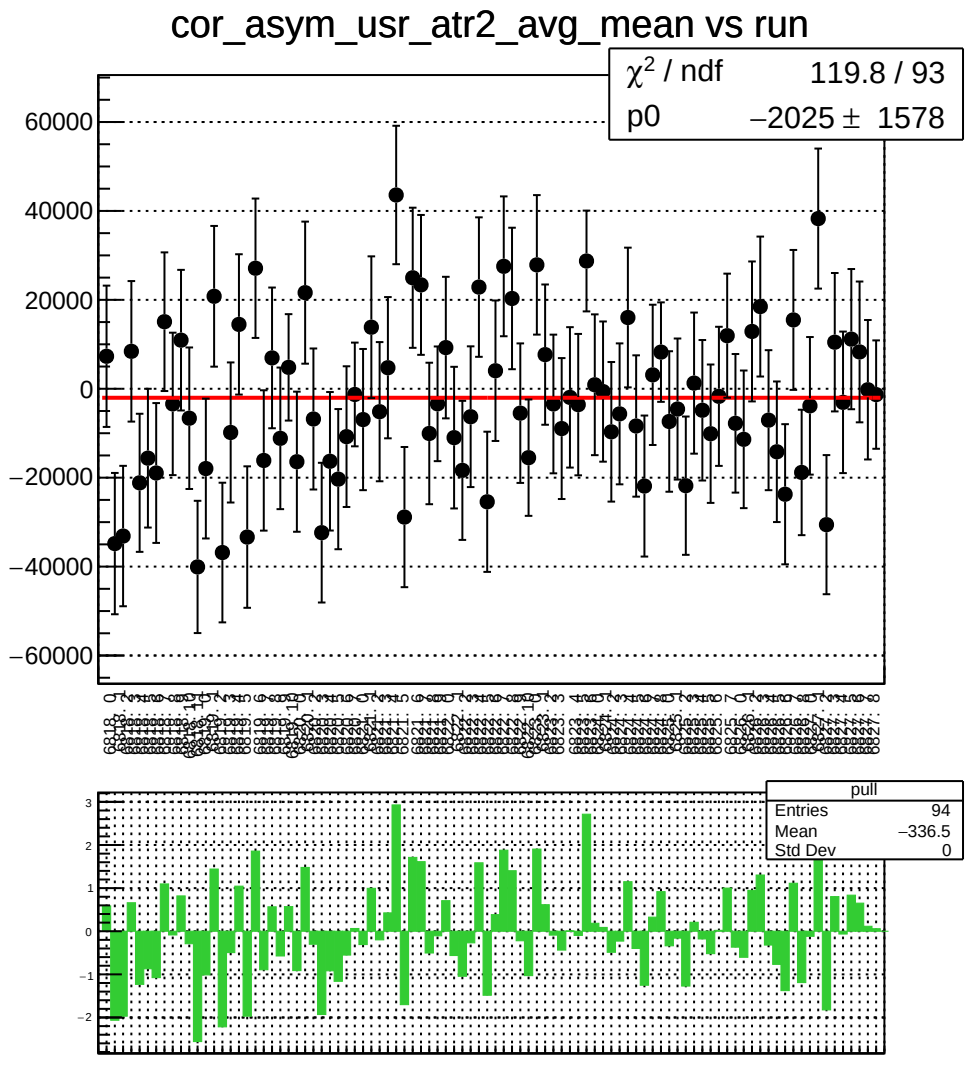

pull1D
Entries 94
Mean −0.01328
Std Dev 1.129
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

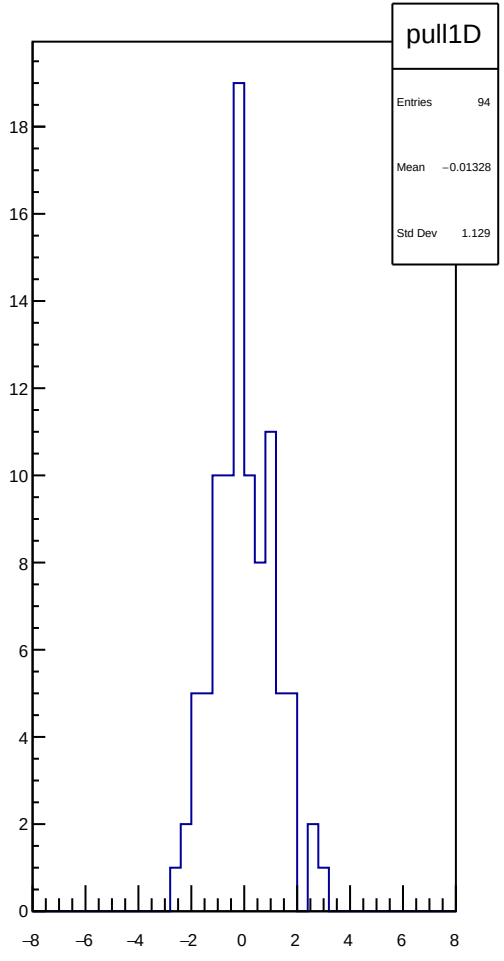

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.22 / 93
p0 1495 ± 1.116
1530
1520
1510
1500
1490
1480
1470
1460
1450

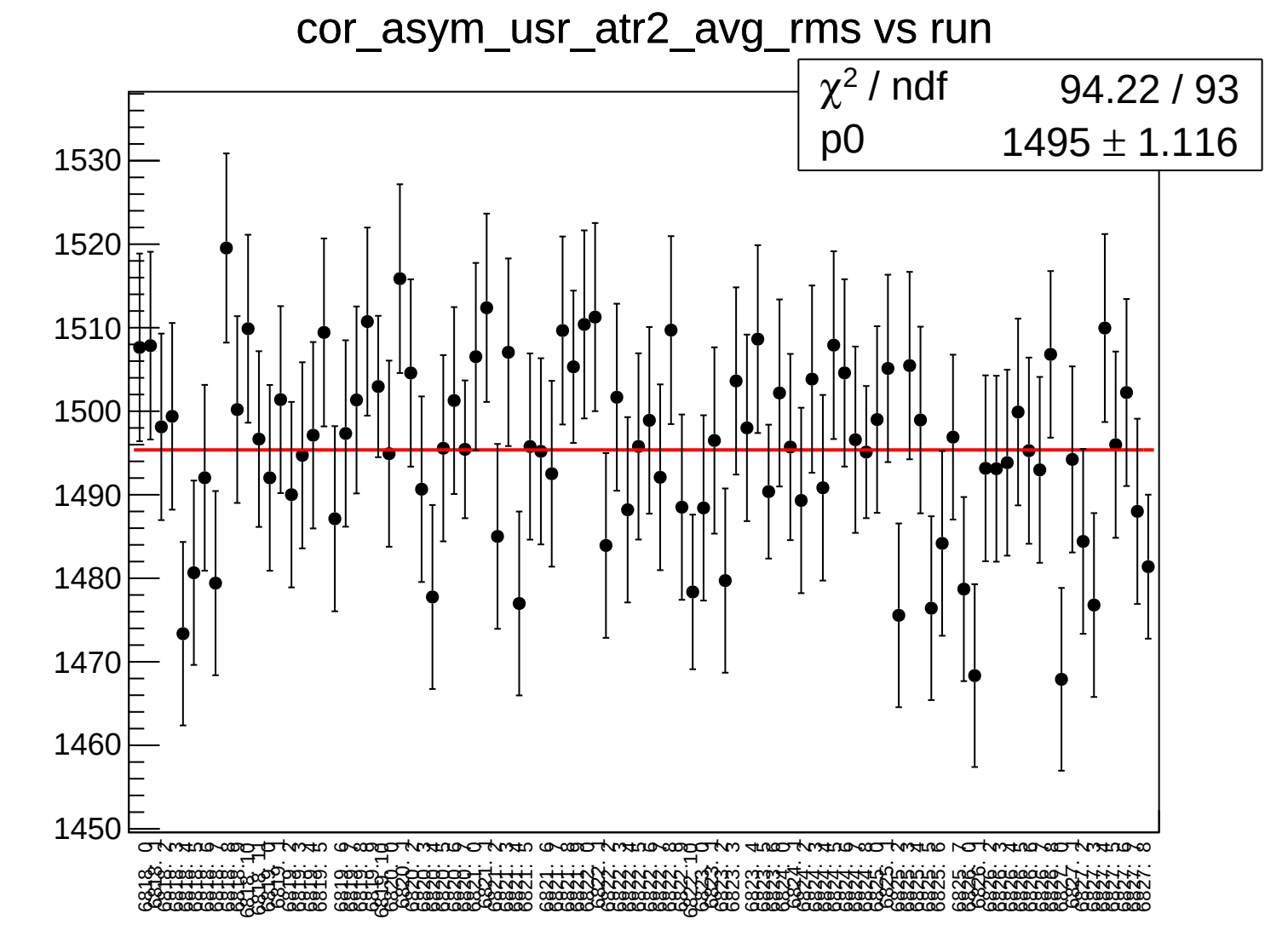

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 84.22 / 93
p0 2368 ± 4139
100
50
0
−50
−100
−150
pull
Entries 94
Mean 348.8
Std Dev 0
2
1
0
−1
−2
−3

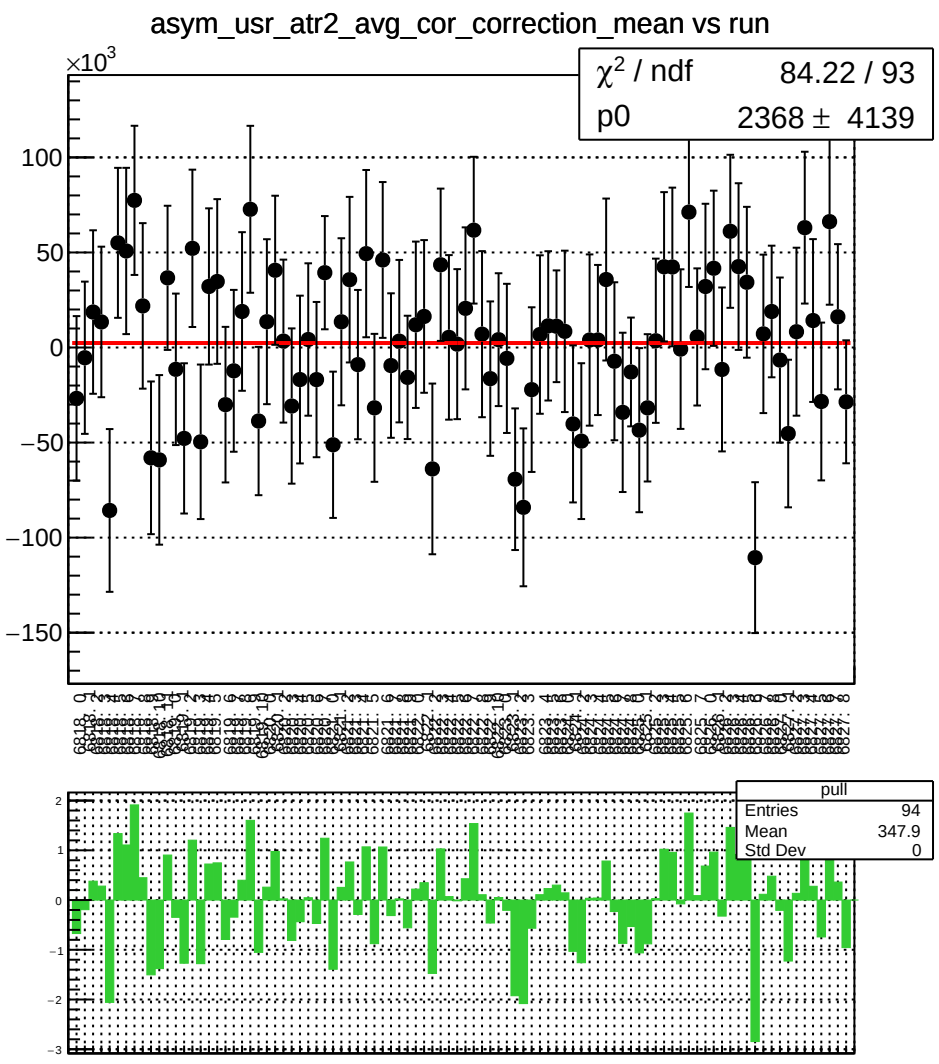

pull1D
Entries 94
Mean 0.002221
Std Dev 0.9465
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

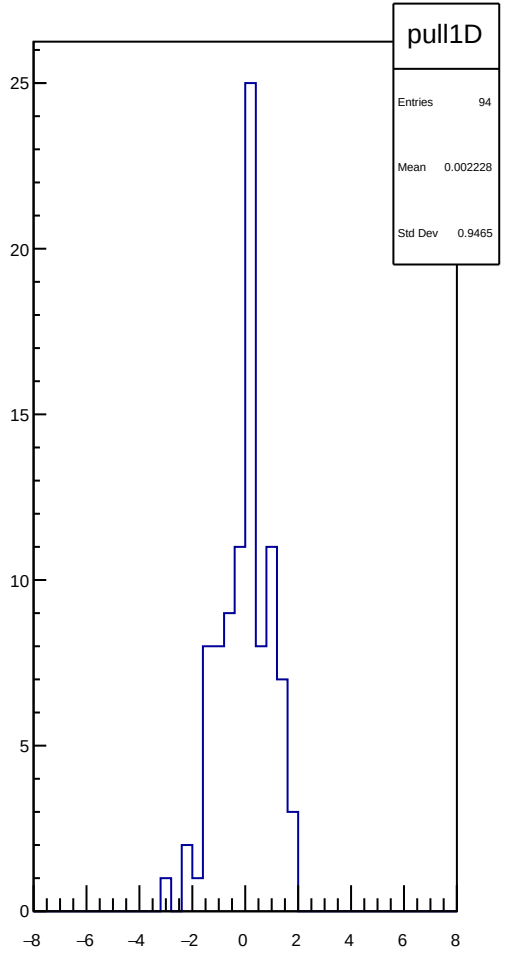

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4707 / 93
p0 3916 ± 2.927
5000
4800
4600
4400
4200
4000
3800
3600
3400

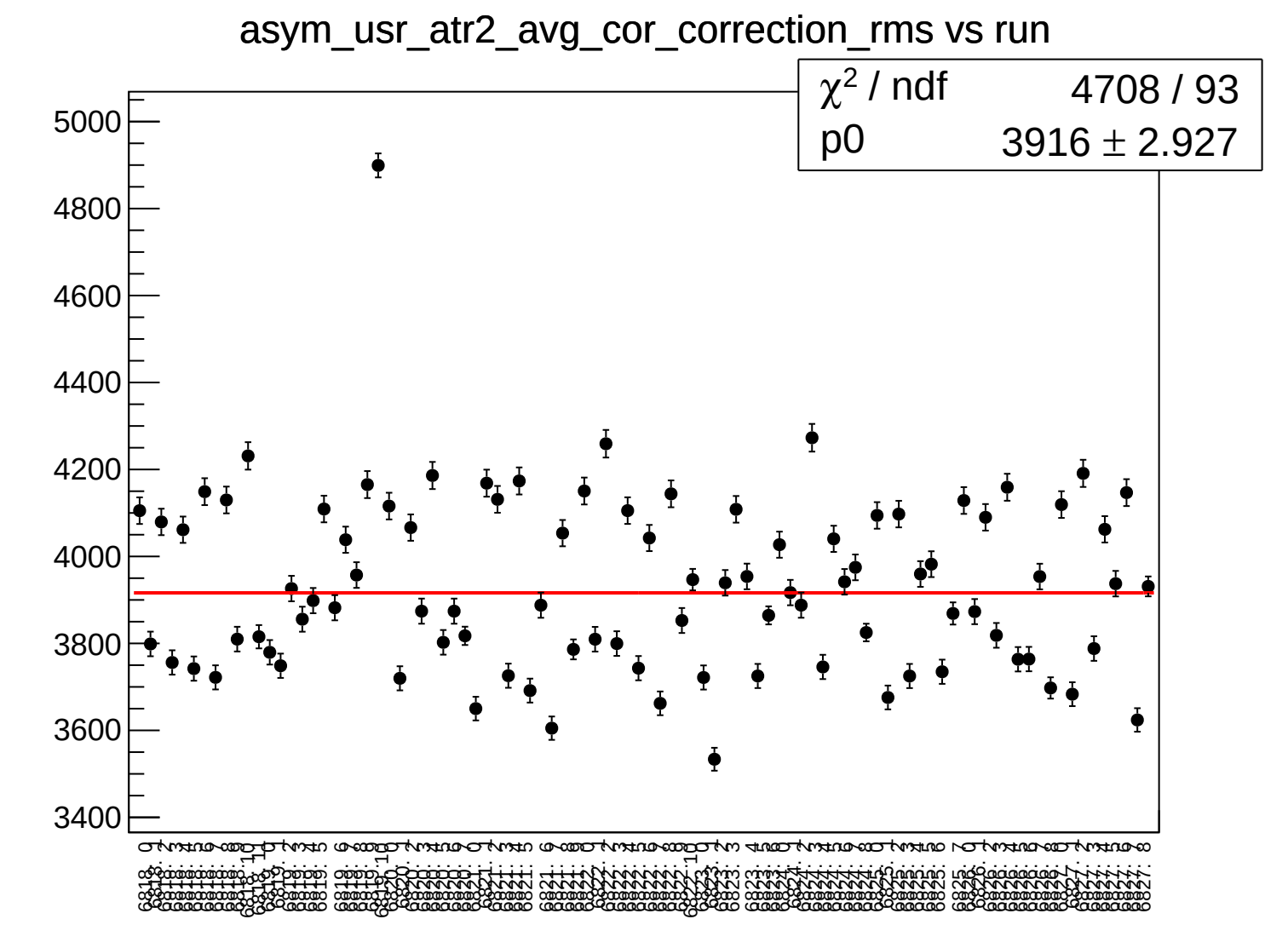

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 119.8 / 93
p0 −2025 ± 1578
pull
Entries 94
Mean −336.5
Std Dev 0

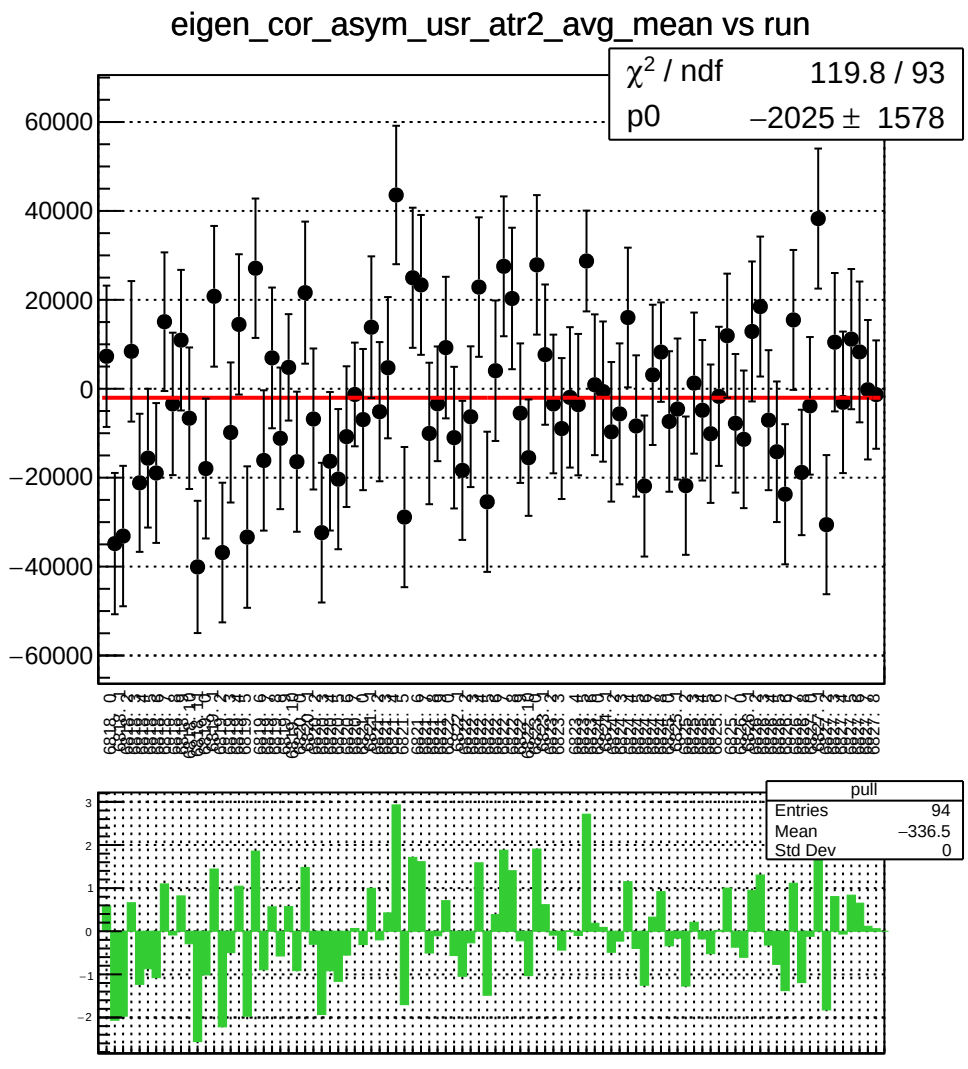

pull1D
Entries 94
Mean −0.01328
Std Dev 1.129

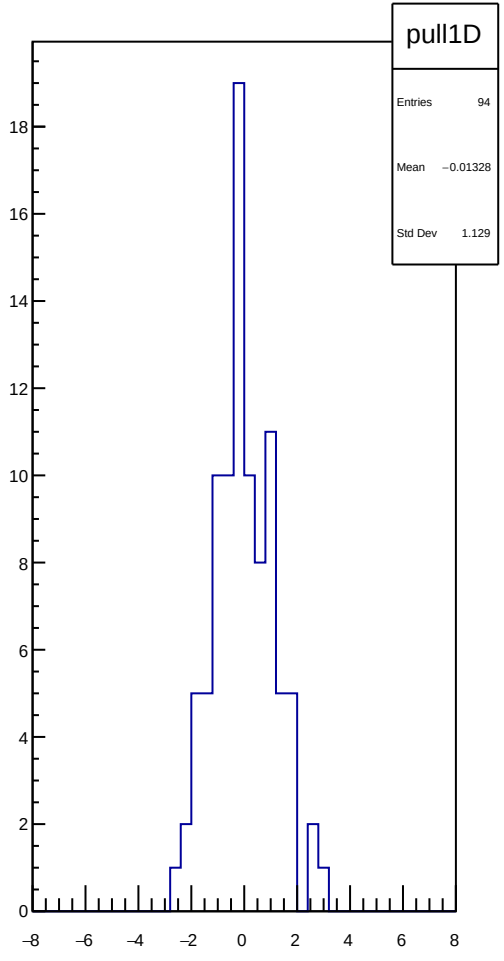

cor_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 94.22 / 93
p0 1495 ± 1.116
1530
1520
1510
1500
1490
1480
1470
1460
1450

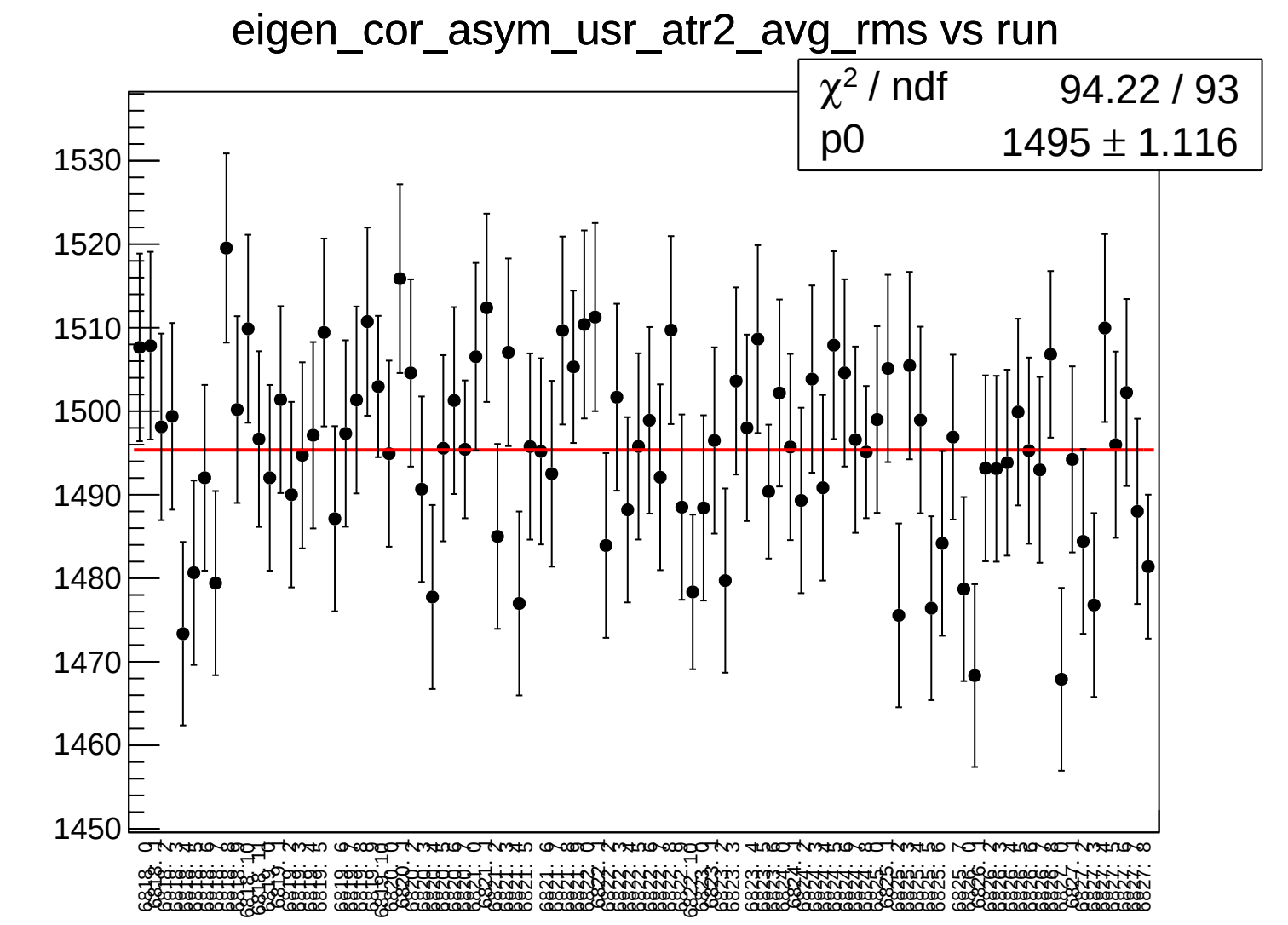

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.22 / 93
p0 2368 ± 4139
100
50
0
−50
−100
−150
pull
Entries 94
Mean 347.9
Std Dev 0
2
1
0
−1
−2
−3

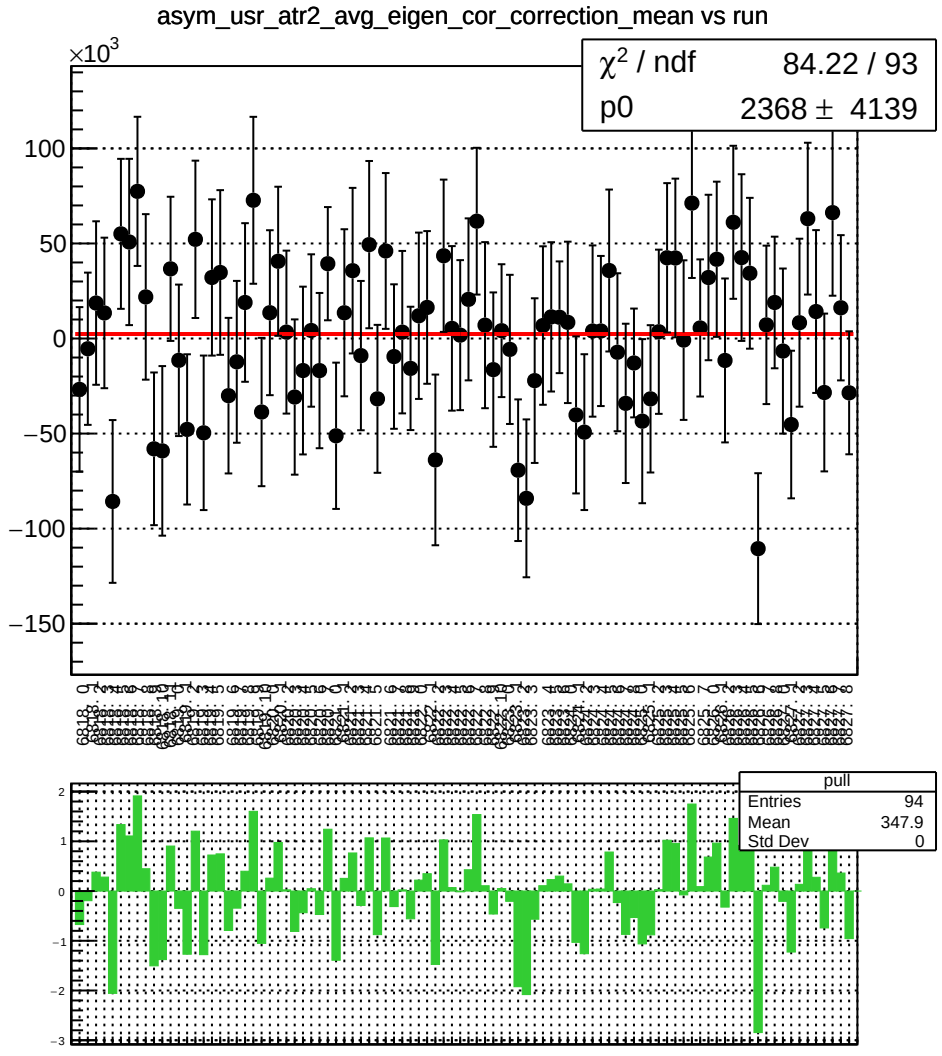

pull1D
Entries 94
Mean 0.002228
Std Dev 0.9465
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

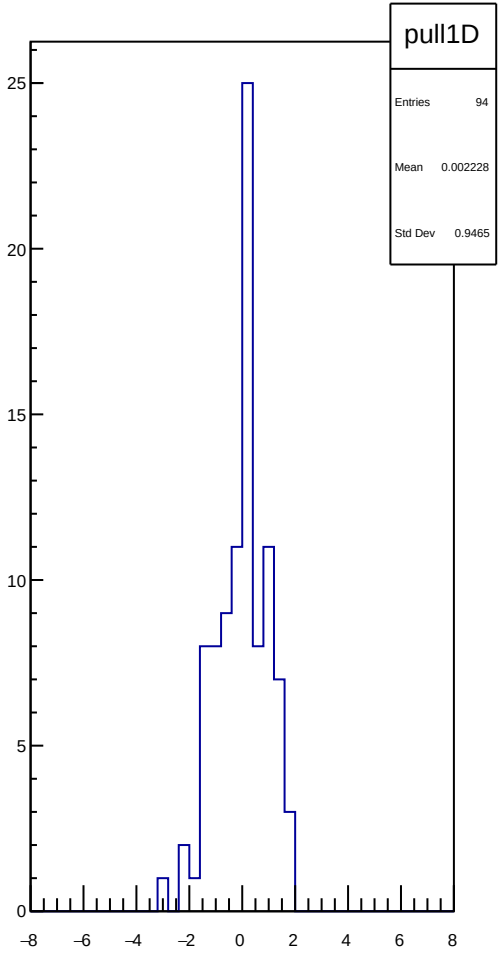

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4708 / 93
p0 3916 ± 2.927
5000
4800
4600
4400
4200
4000
3800
3600
3400

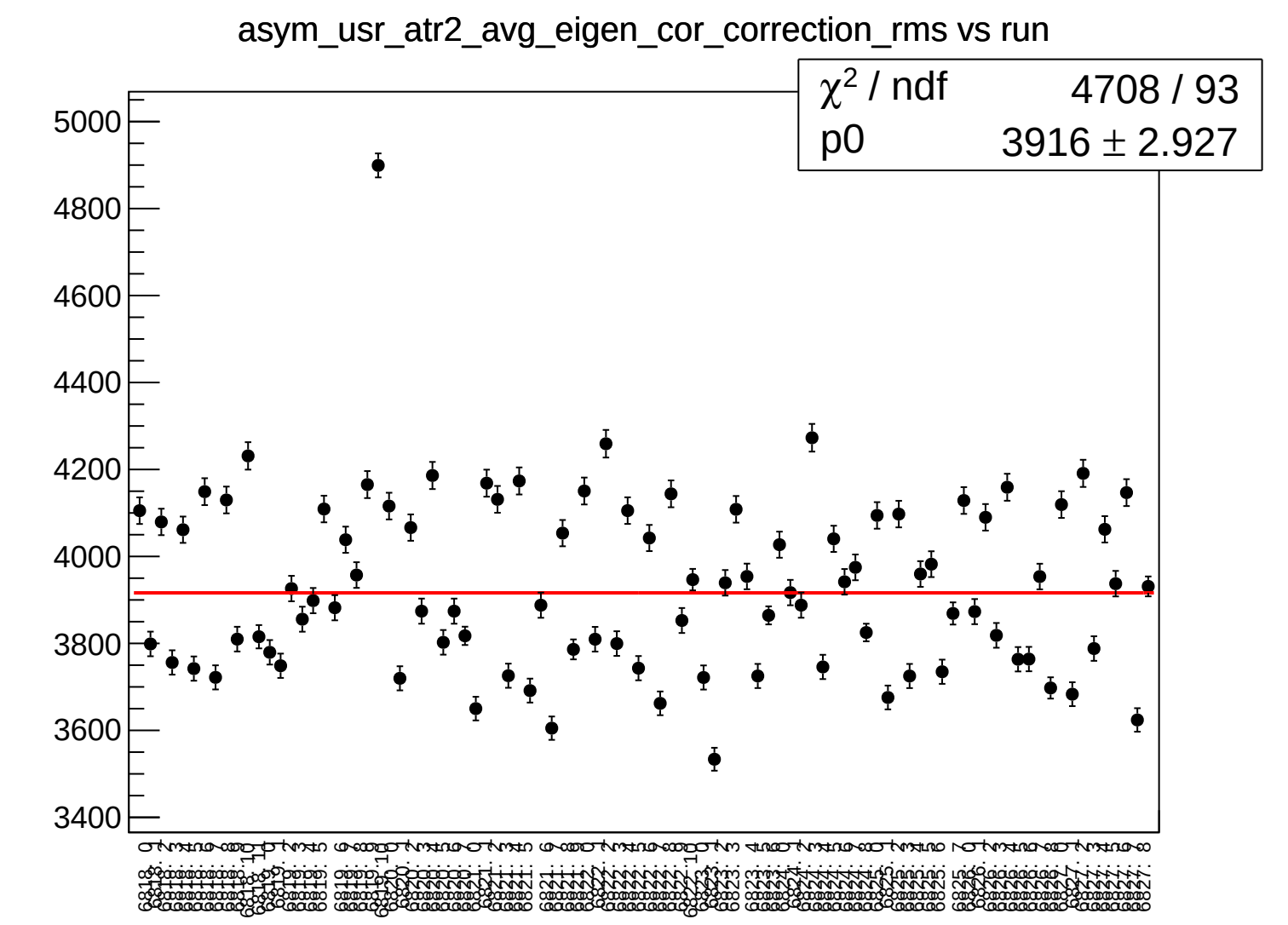

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 119.8 / 93
p0 −2025 ± 1578
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −336.5
Std Dev 0
3
2
1
0
−1
−2

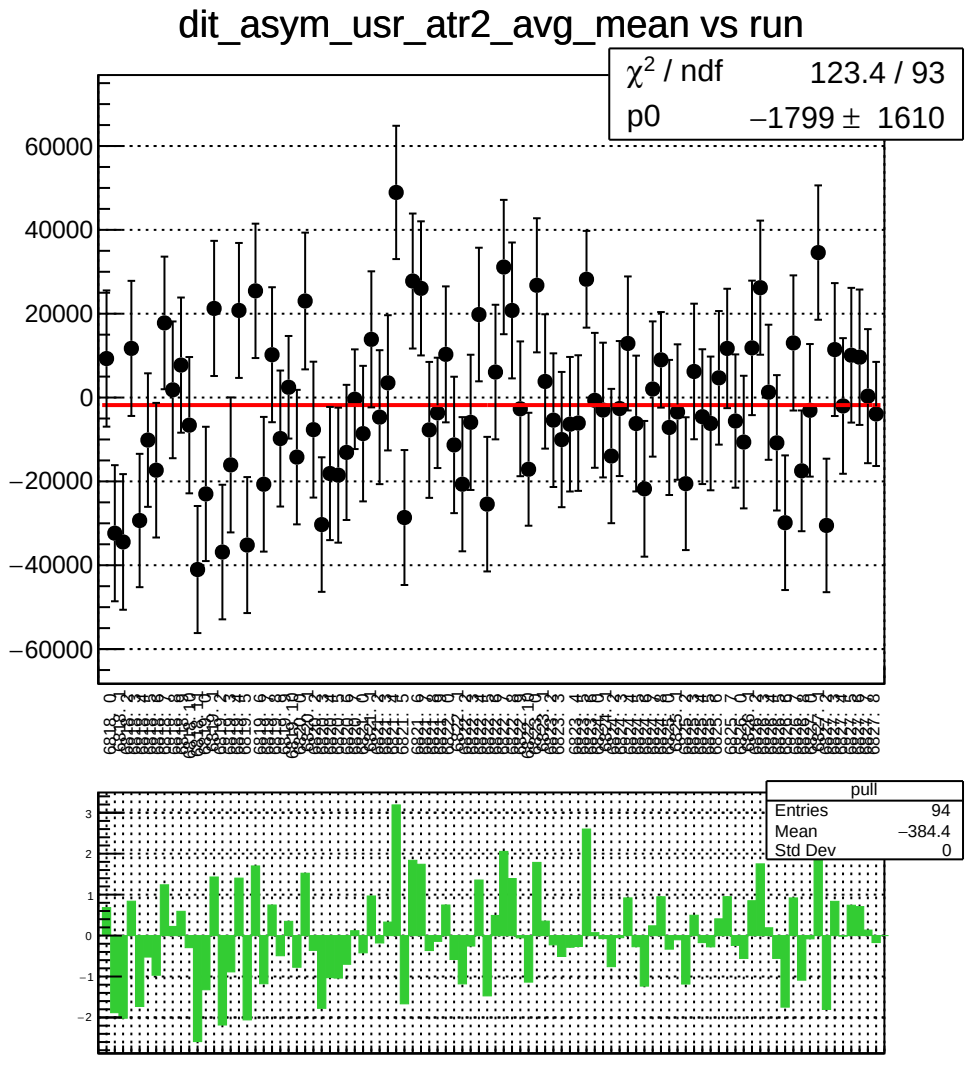

pull1D
Entries 94
Mean −0.01328
Std Dev 1.129
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

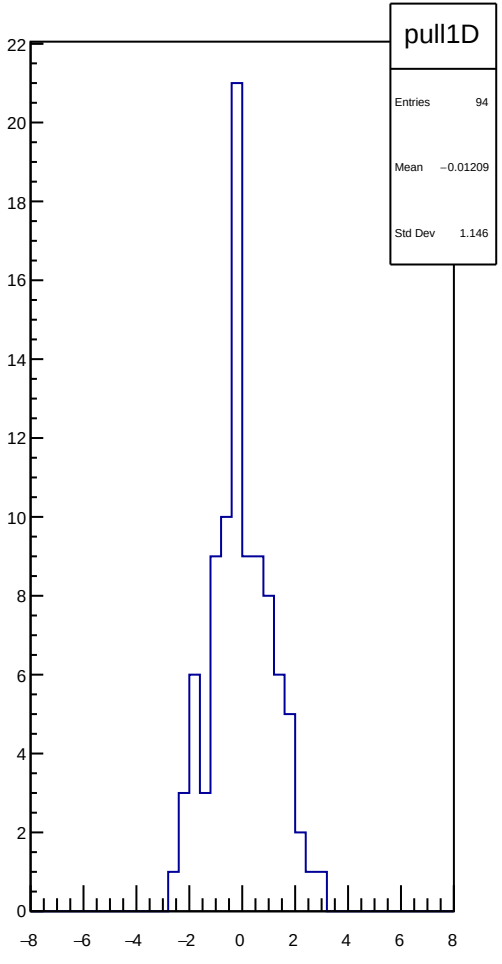

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 94.22 / 93
p0 1495 ± 1.116
1530
1520
1510
1500
1490
1480
1470
1460
1450

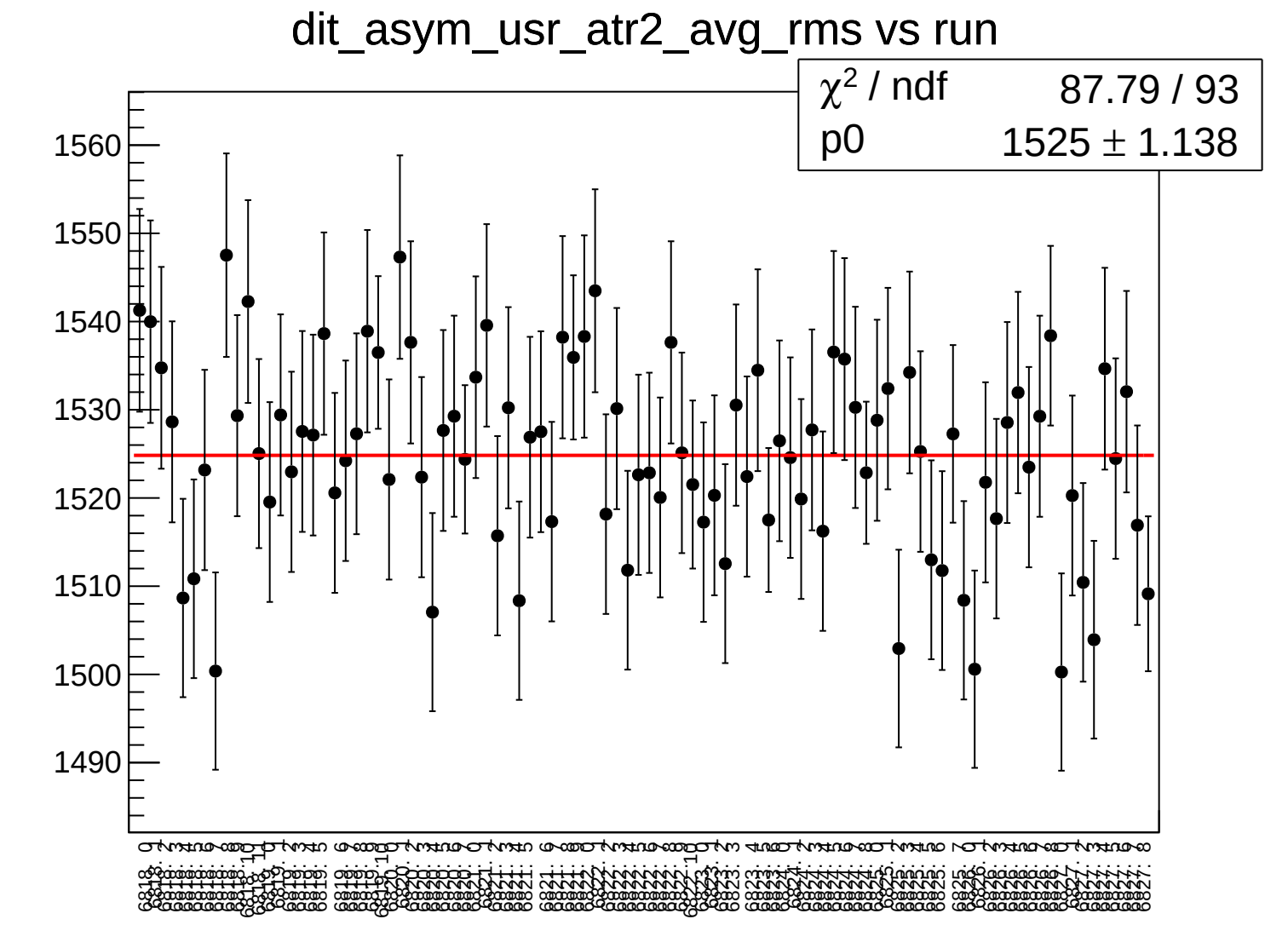

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 84.22 / 93
p0 2368 ± 4139
100
50
0
−50
−100
−150
pull
Entries 94
Mean 347.9
Std Dev 0
2
1
0
−1
−2
−3

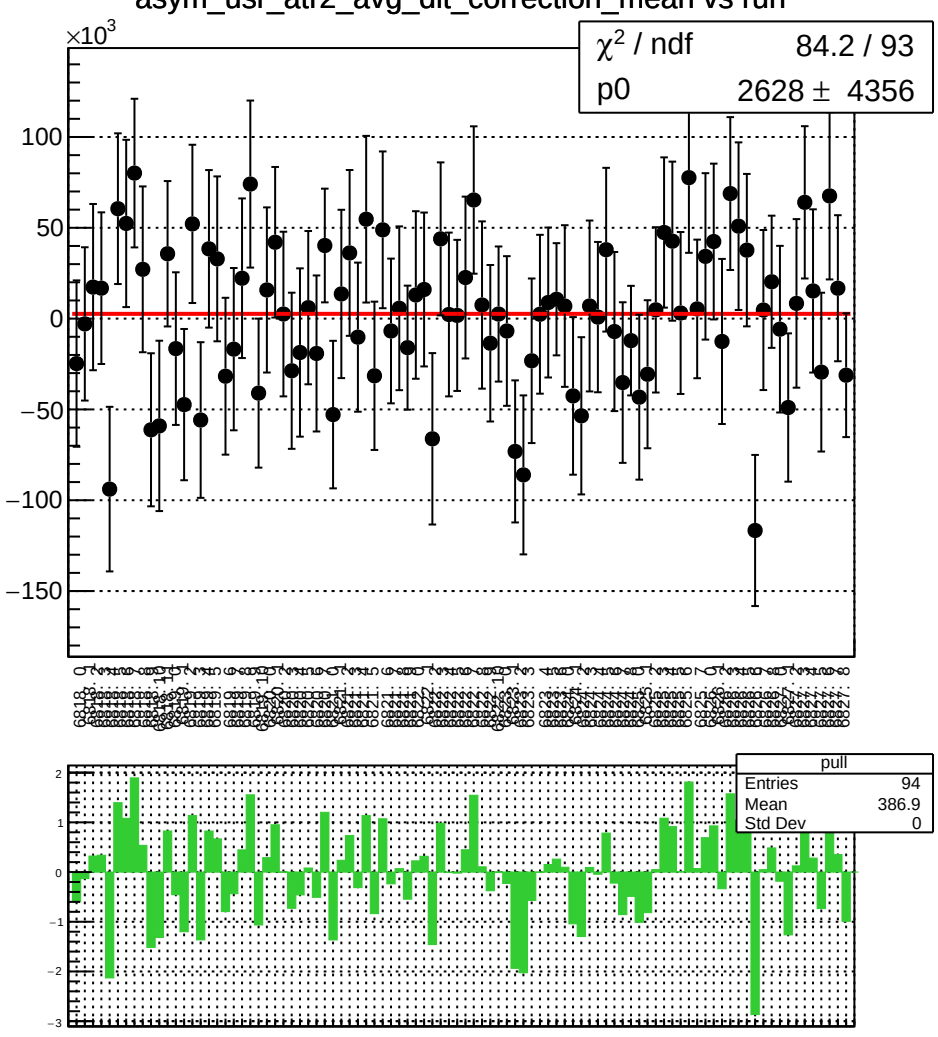

pull1D
Entries 94
Mean 0.002228
Std Dev 0.9465
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

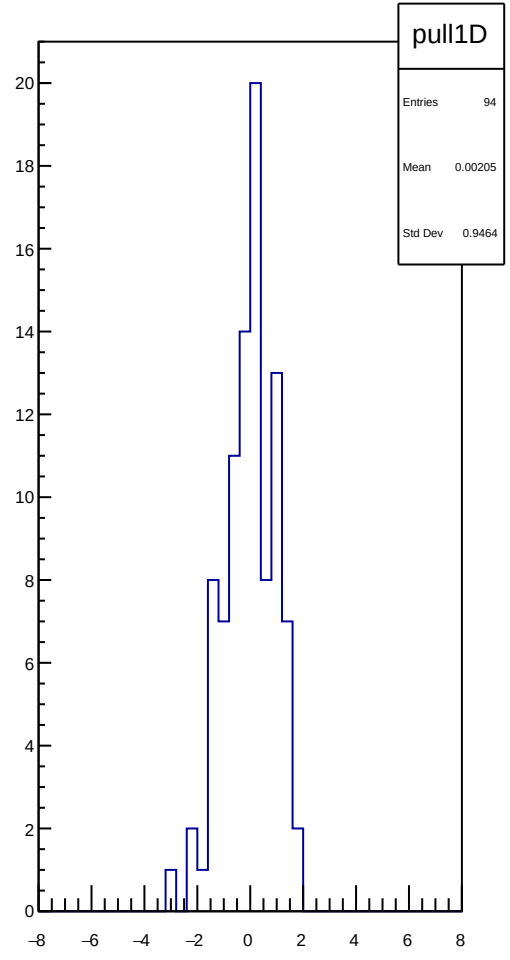

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4708 / 93
p0 3916 ± 2.927
5000
4800
4600
4400
4200
4000
3800
3600
3400

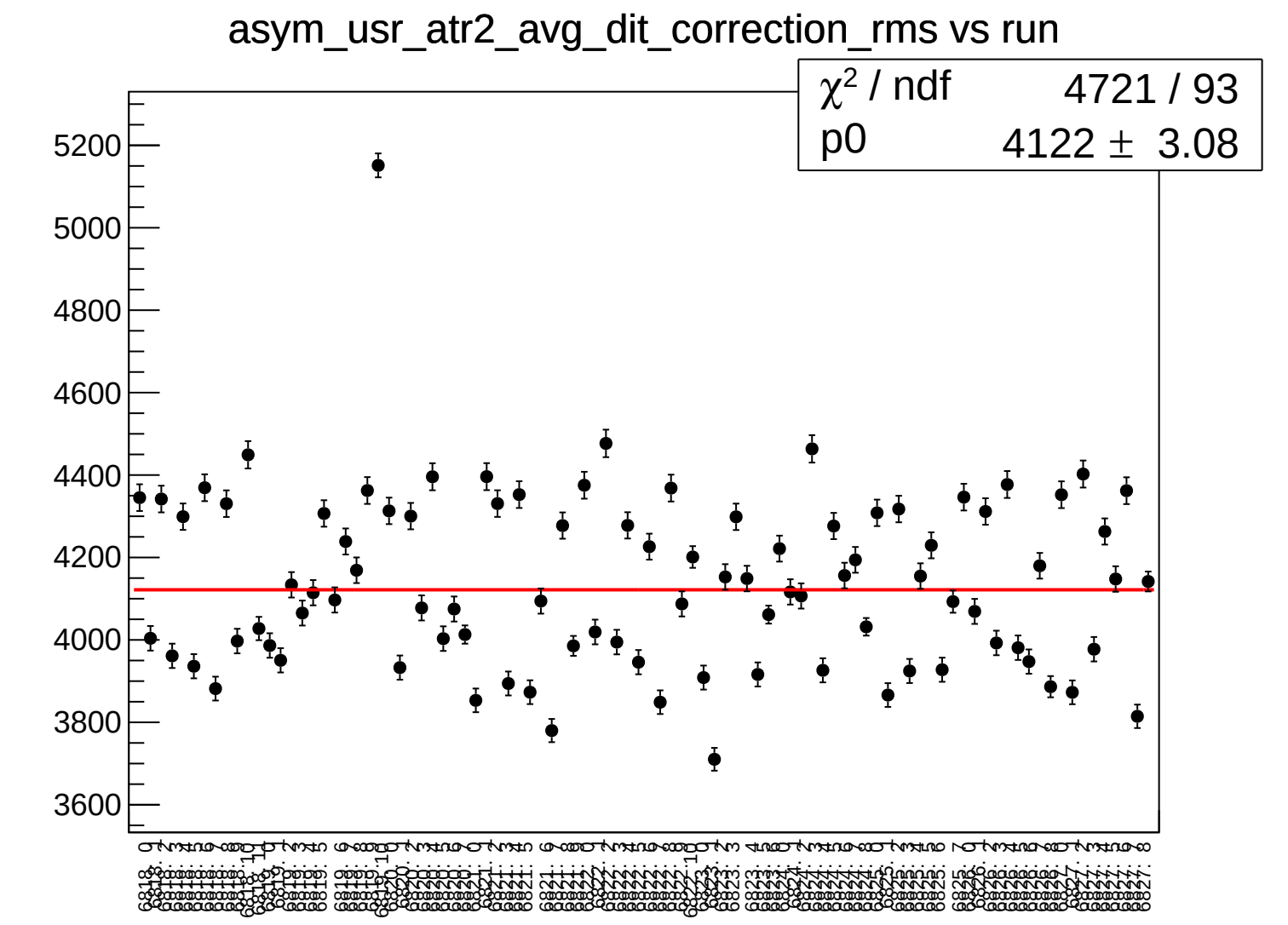

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 123.4 / 93
p0 −1799 ± 1610
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −384.4
Std Dev 0
3
2
1
0
−1
−2

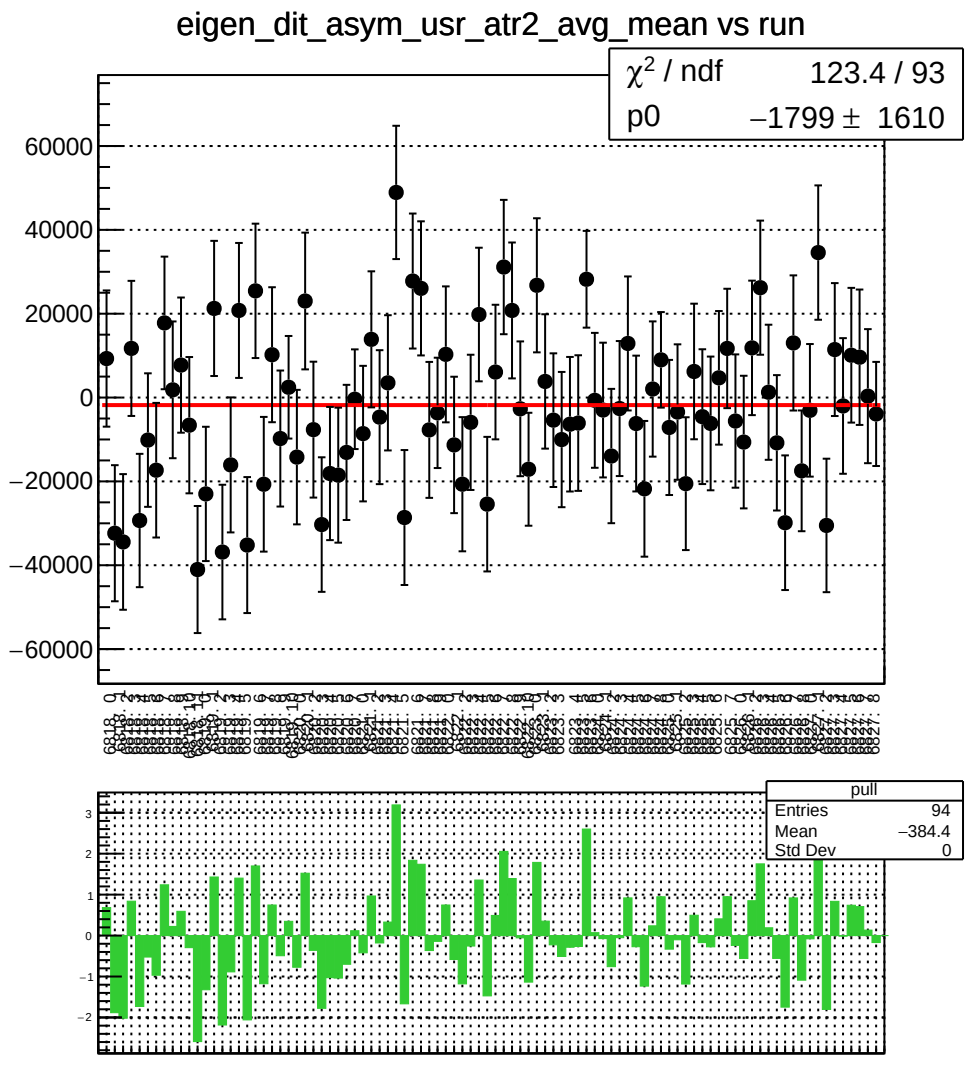

pull1D
Entries 94
Mean −0.01209
Std Dev 1.146
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

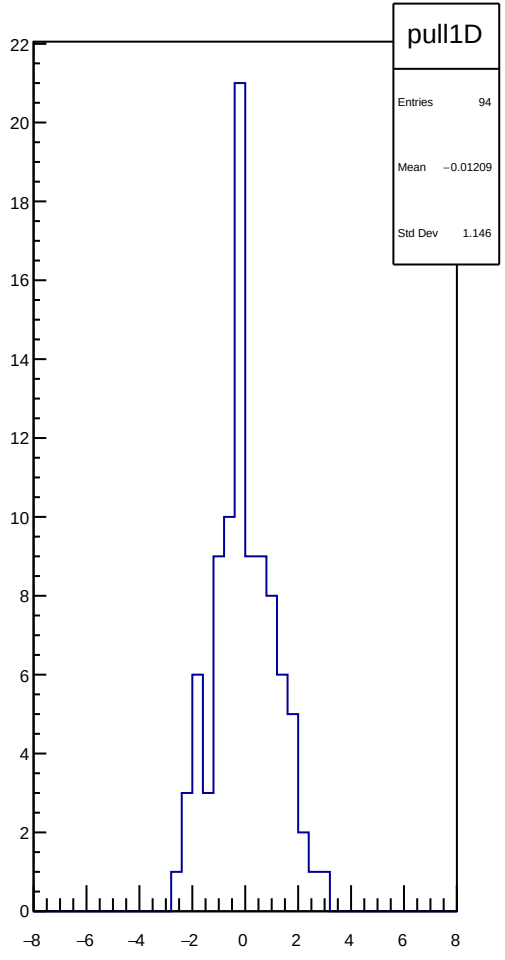

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 87.79 / 93
p0 1525 ± 1.138
1560
1550
1540
1530
1520
1510
1500
1490

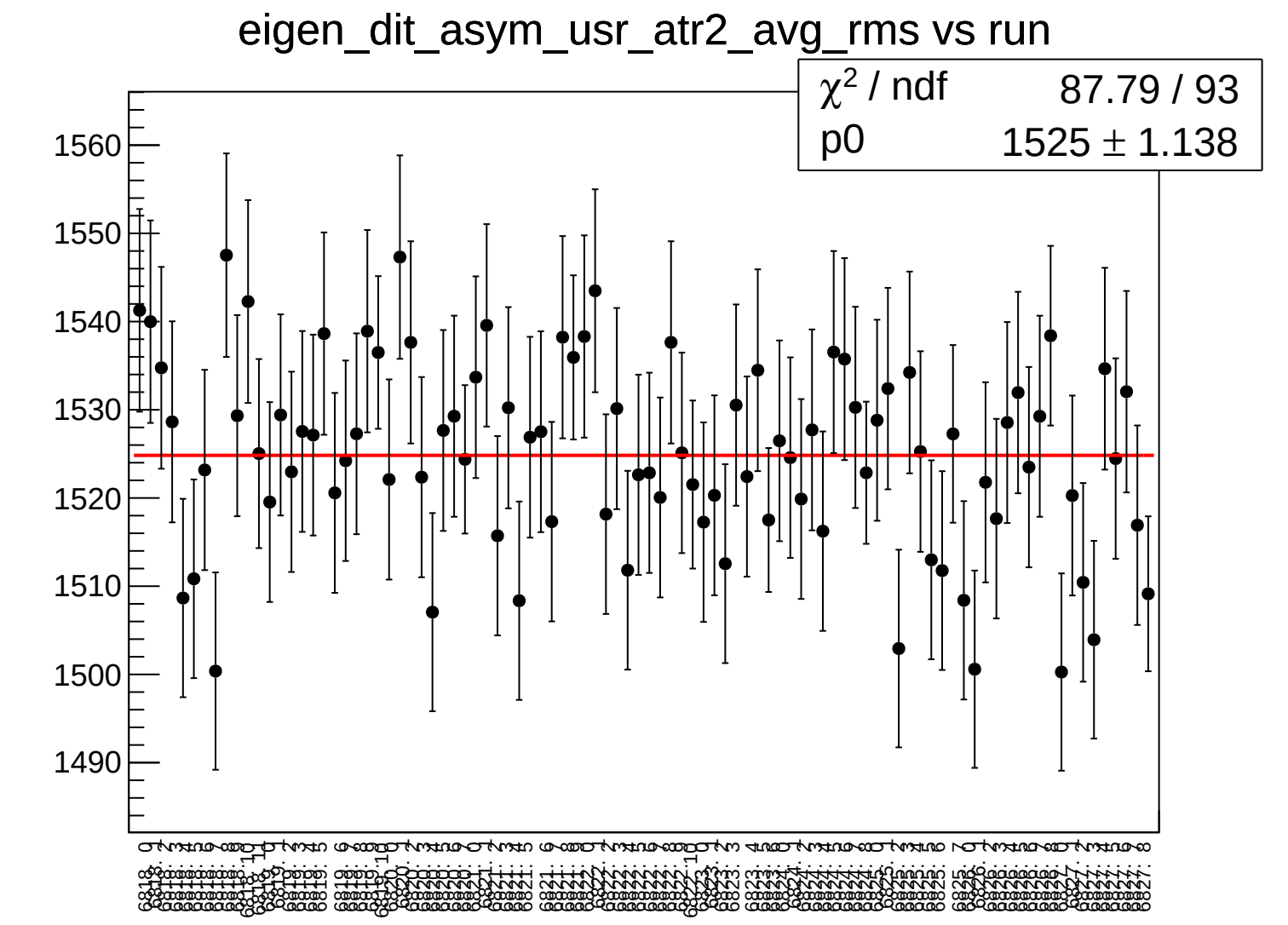

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.2 / 93
p0 2628 ± 4356
100
50
0
−50
−100
−150
pull
Entries 94
Mean 386.9
Std Dev 0
2
1
0
−1
−2
−3

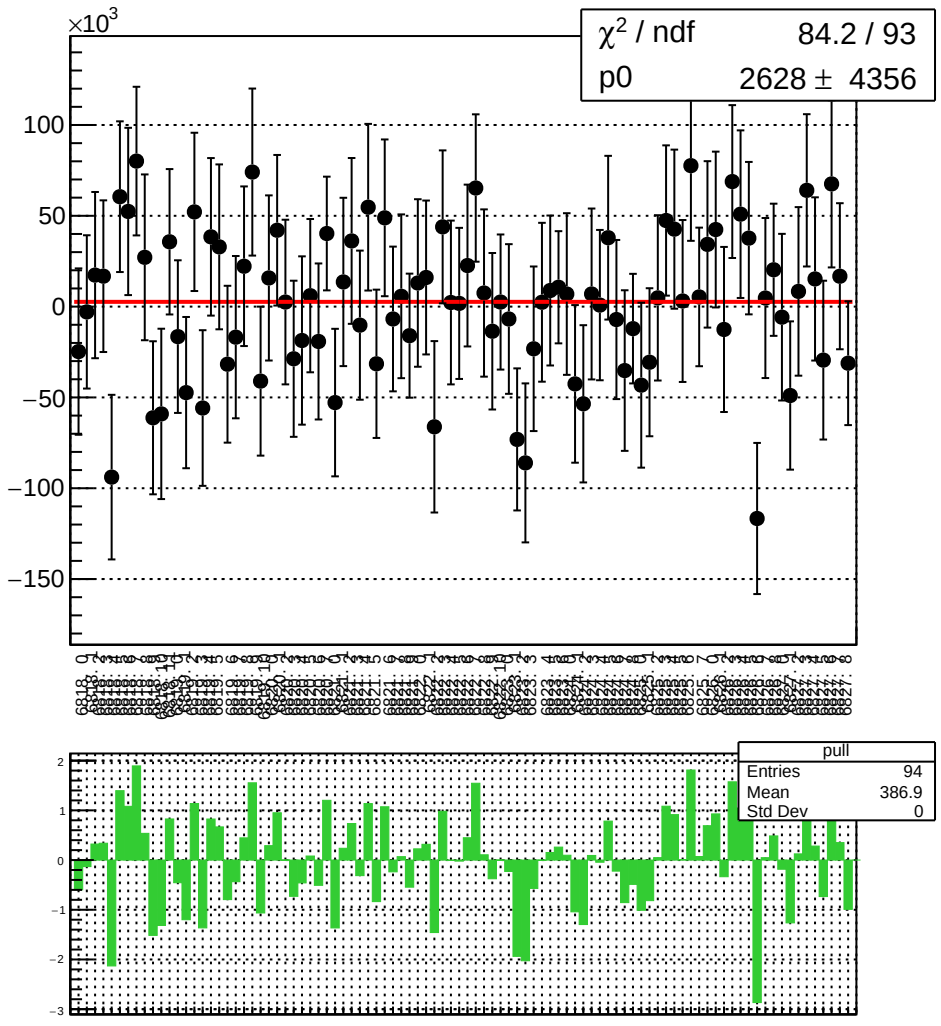

pull1D
Entries 94
Mean 0.00205
Std Dev 0.9464
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

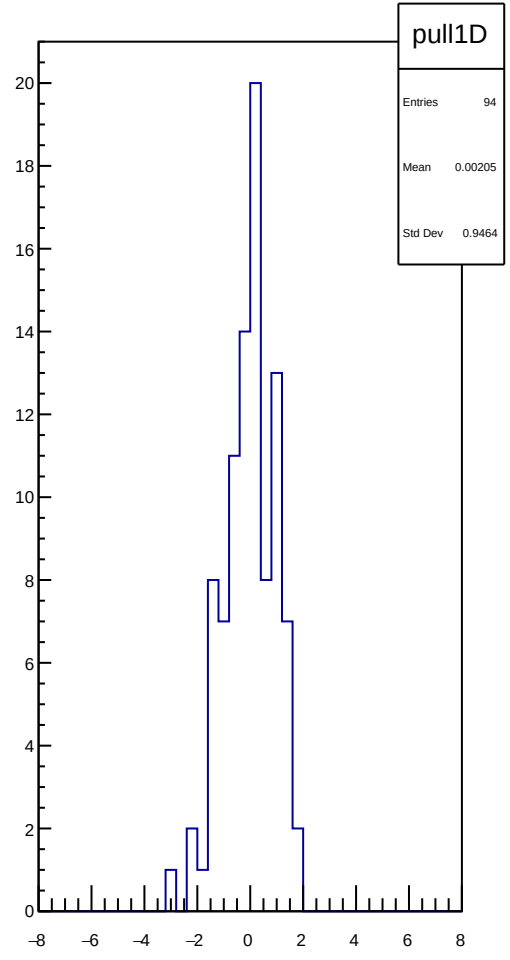

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4721 / 93
p0 4122 ± 3.08
5200
5000
4800
4600
4400
4200
4000
3800
3600

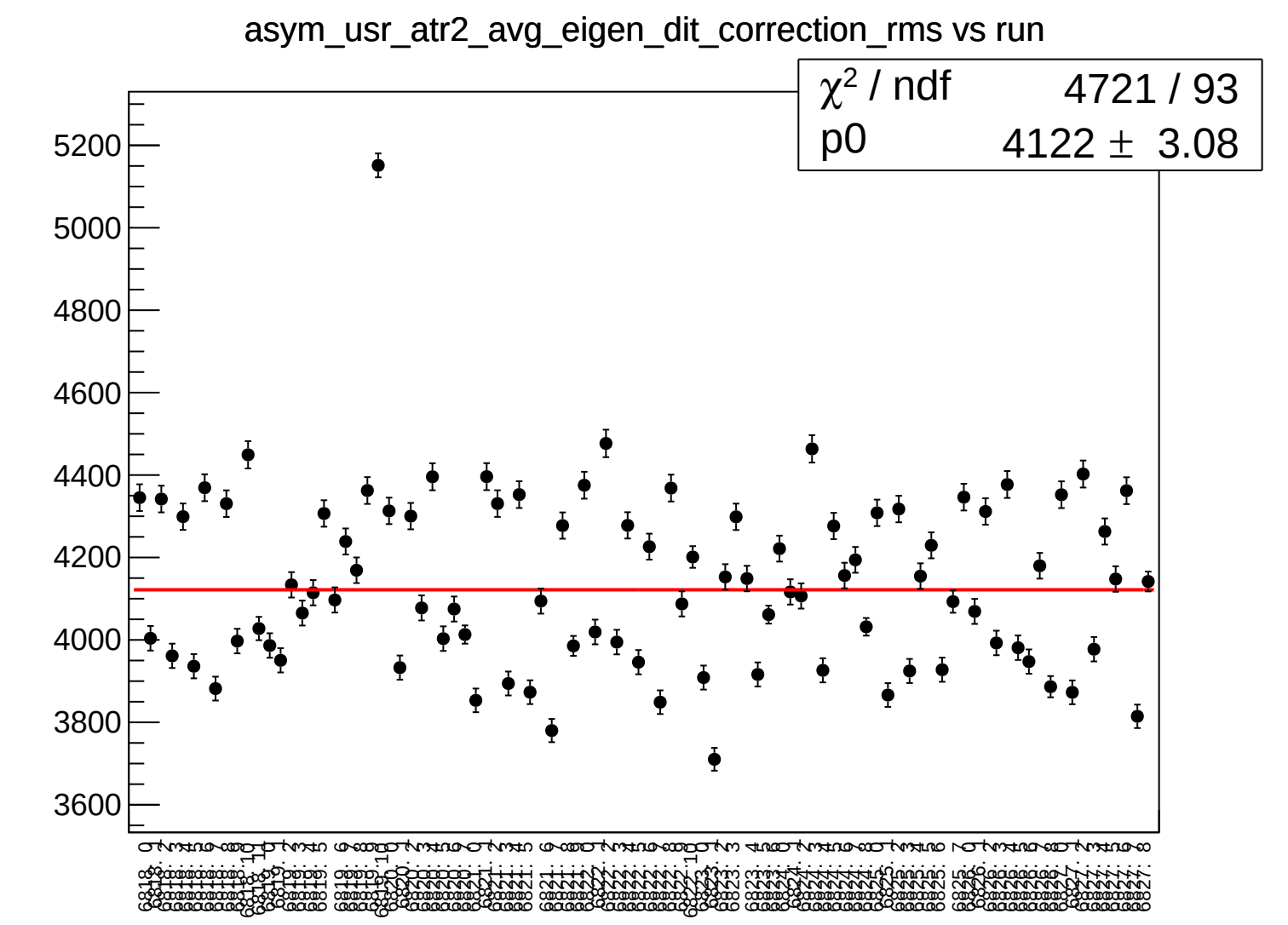

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 123.4 / 93
p0 −1799 ± 1610
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −384.4
Std Dev 0
3
2
1
0
−1
−2

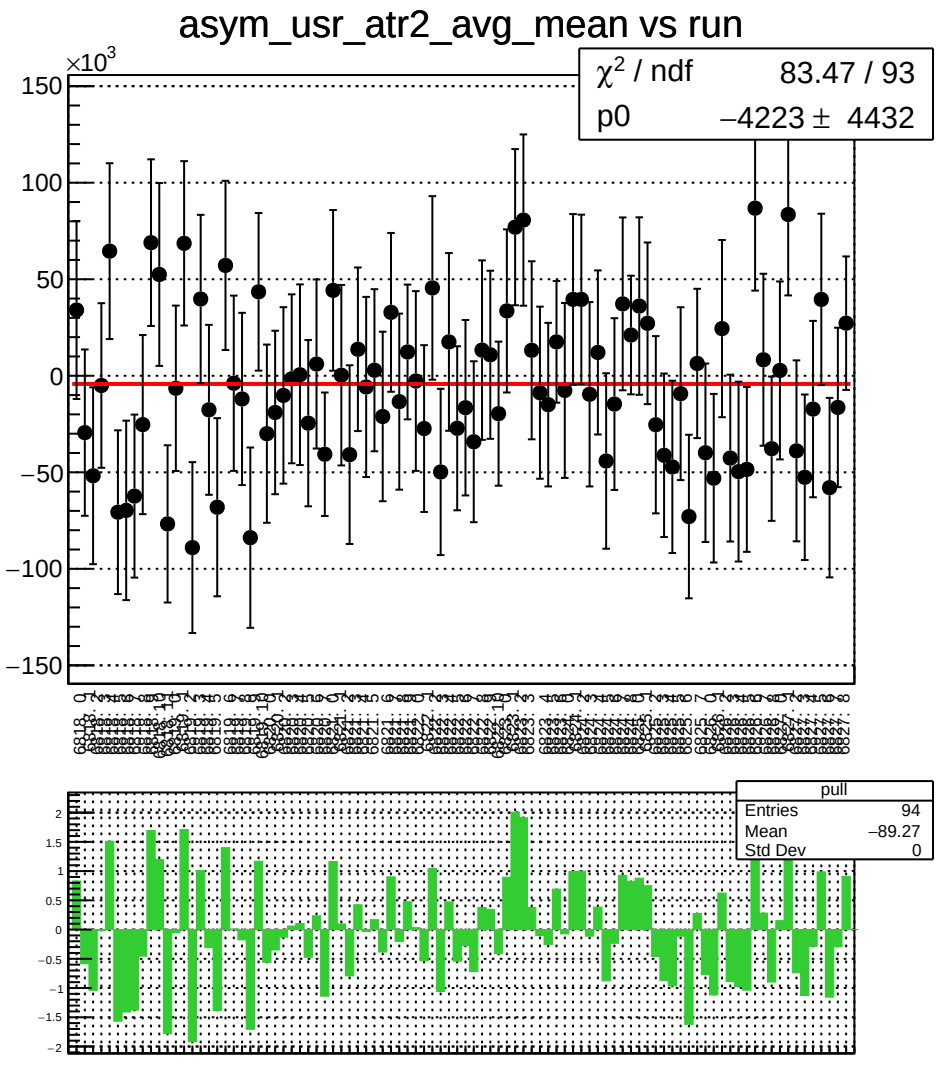

pull1D
Entries 94
Mean −0.01209
Std Dev 1.146
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

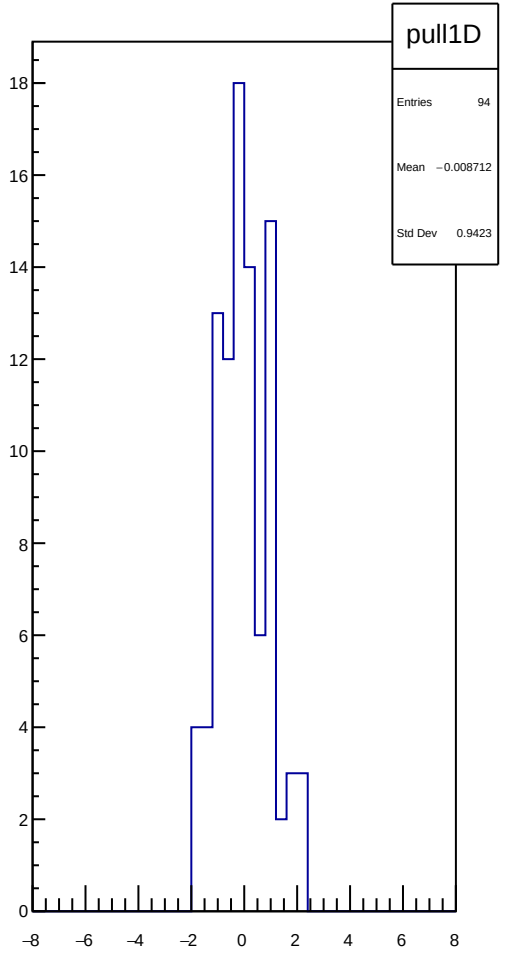

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 87.79 / 93
p0 1525 ± 1.138
1560
1550
1540
1530
1520
1510
1500
1490

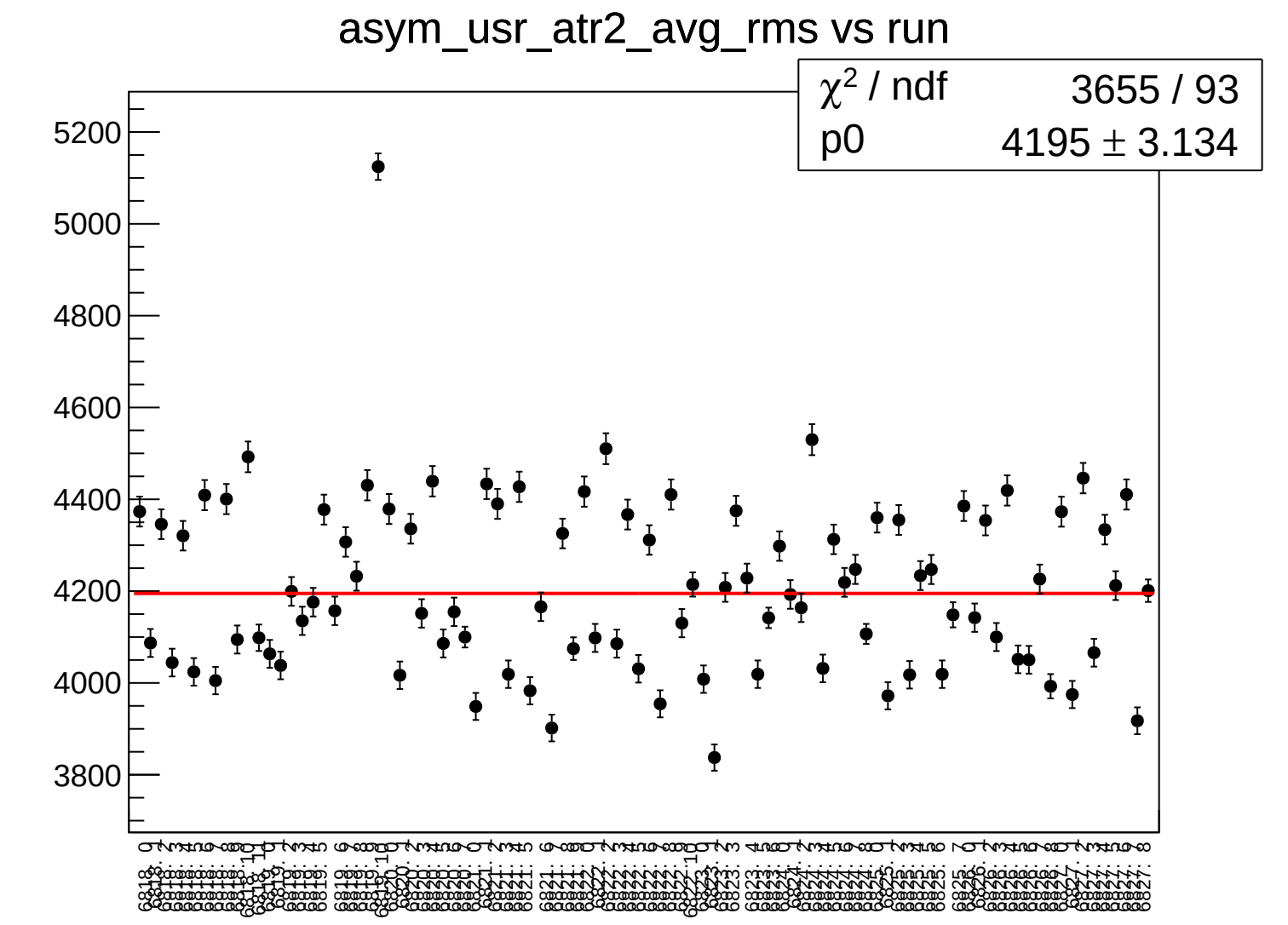

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.2 / 93
p0 2628 ± 4356
pull
Entries 94
Mean 386.9
Std Dev 0

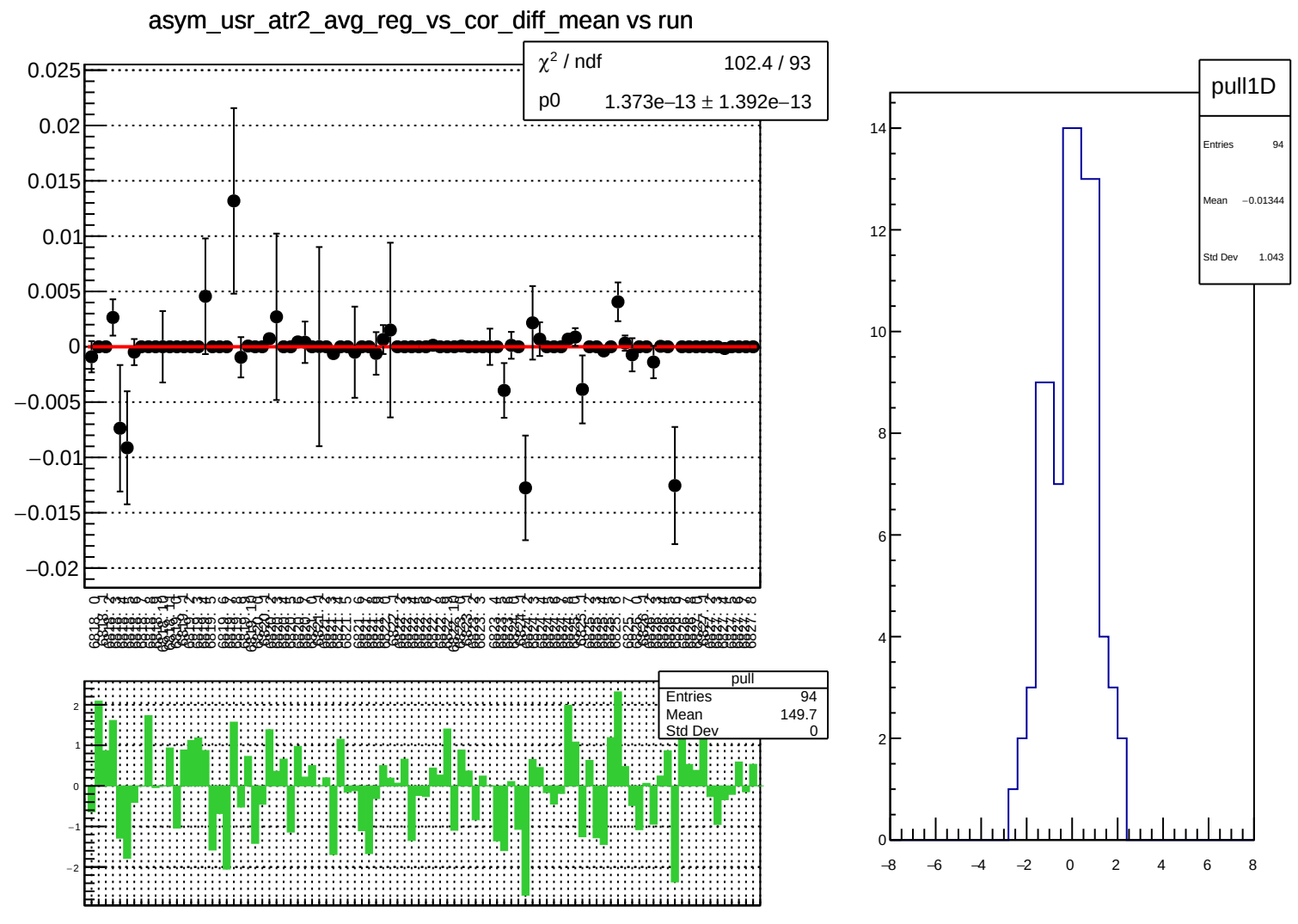

pull1D
Entries 94
Mean 0.00205
Std Dev 0.9464

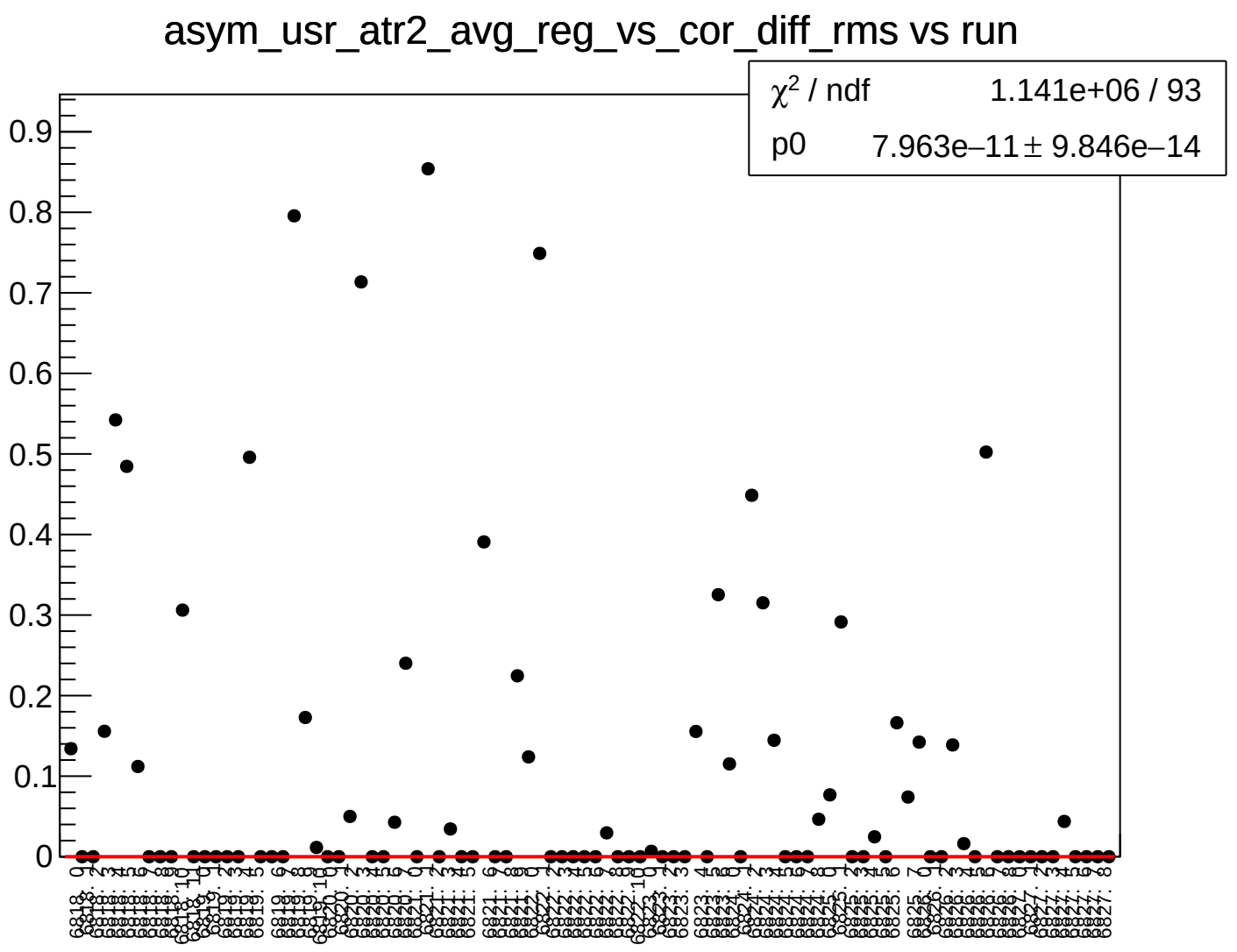

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4721 / 93
p0 4122 ± 3.08
5200
5000
4800
4600
4400
4200
4000
3800
3600

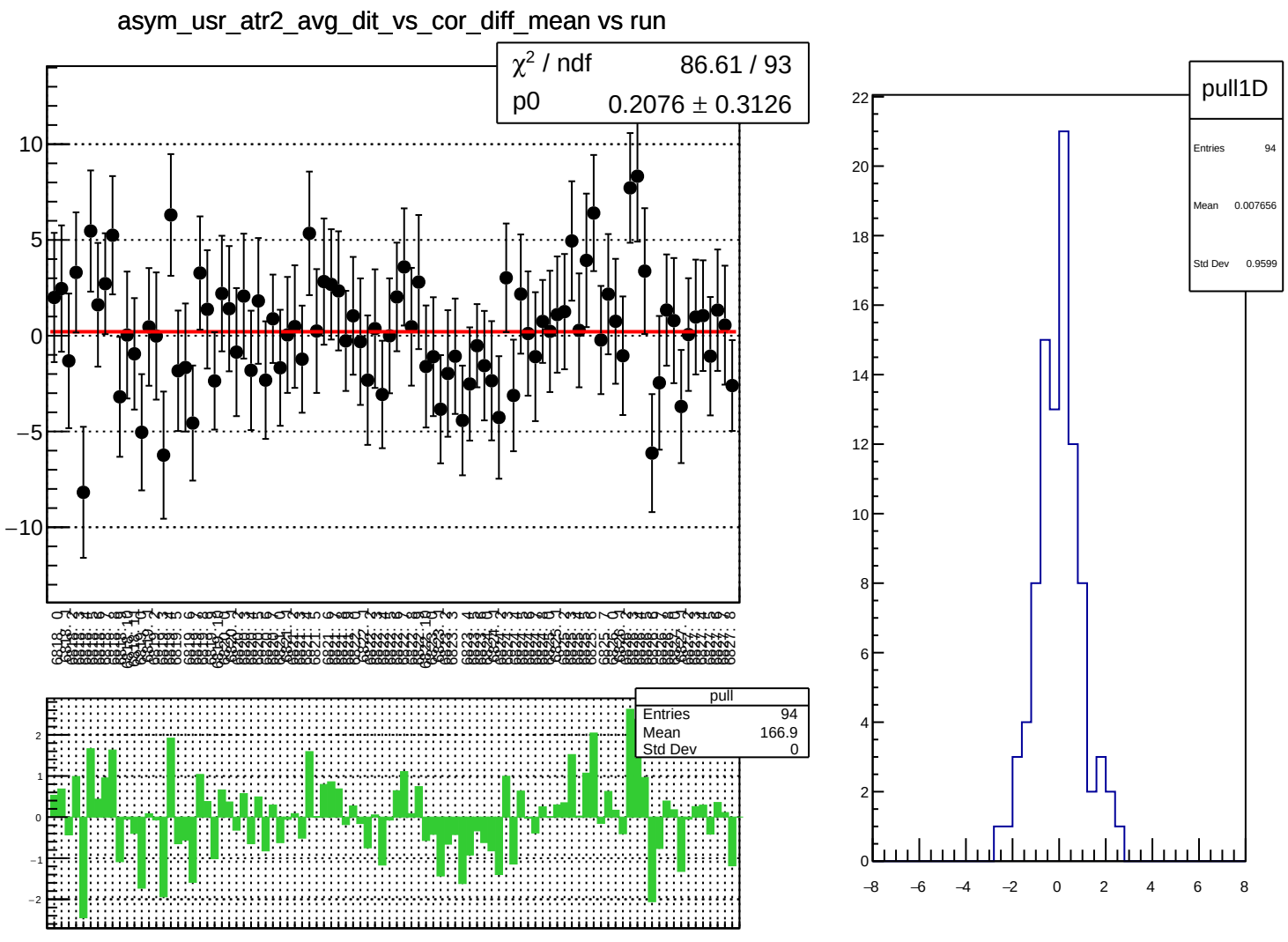

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 83.47 / 93
p0 −4223 ± 4432
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −89.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

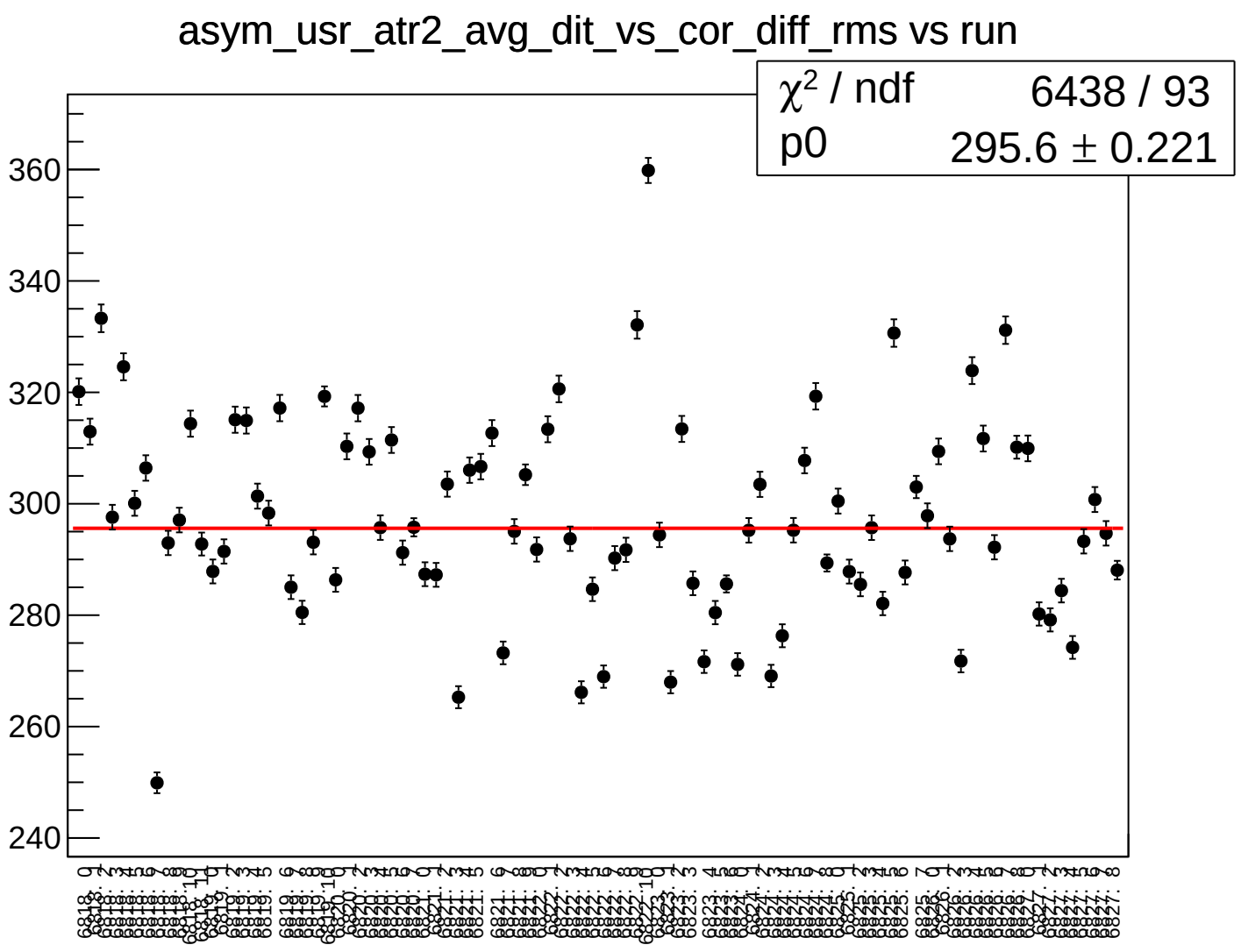

pull1D
Entries 94
Mean −0.008712
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

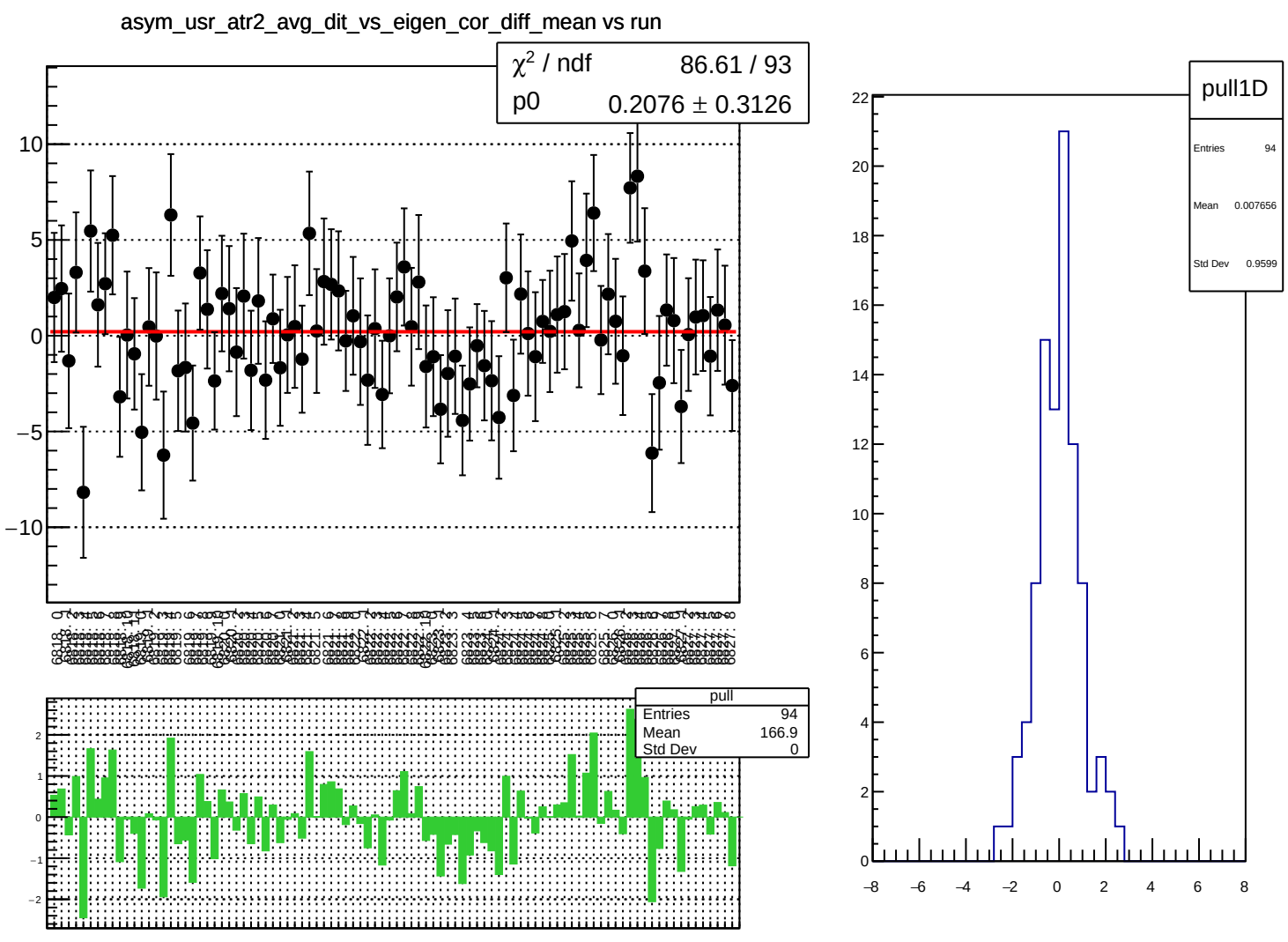

asym_usr_atr2_avg_rms vs run
χ^2 / ndf 3655 / 93
p0 4195 ± 3.134
5200
5000
4800
4600
4400
4200
4000
3800

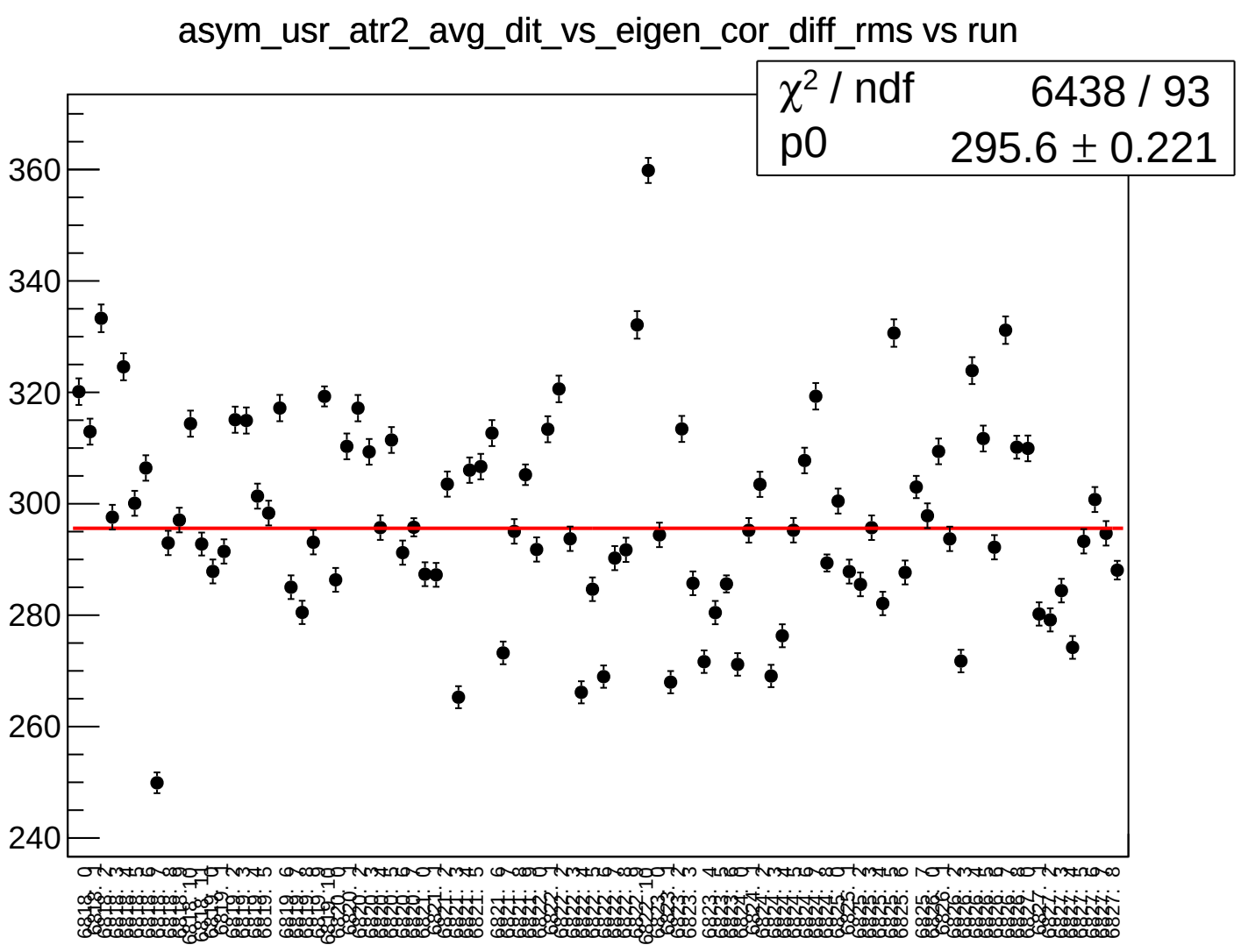

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 102.4 / 93
p0 1.373e−13 ± 1.392e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean 149.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01344
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

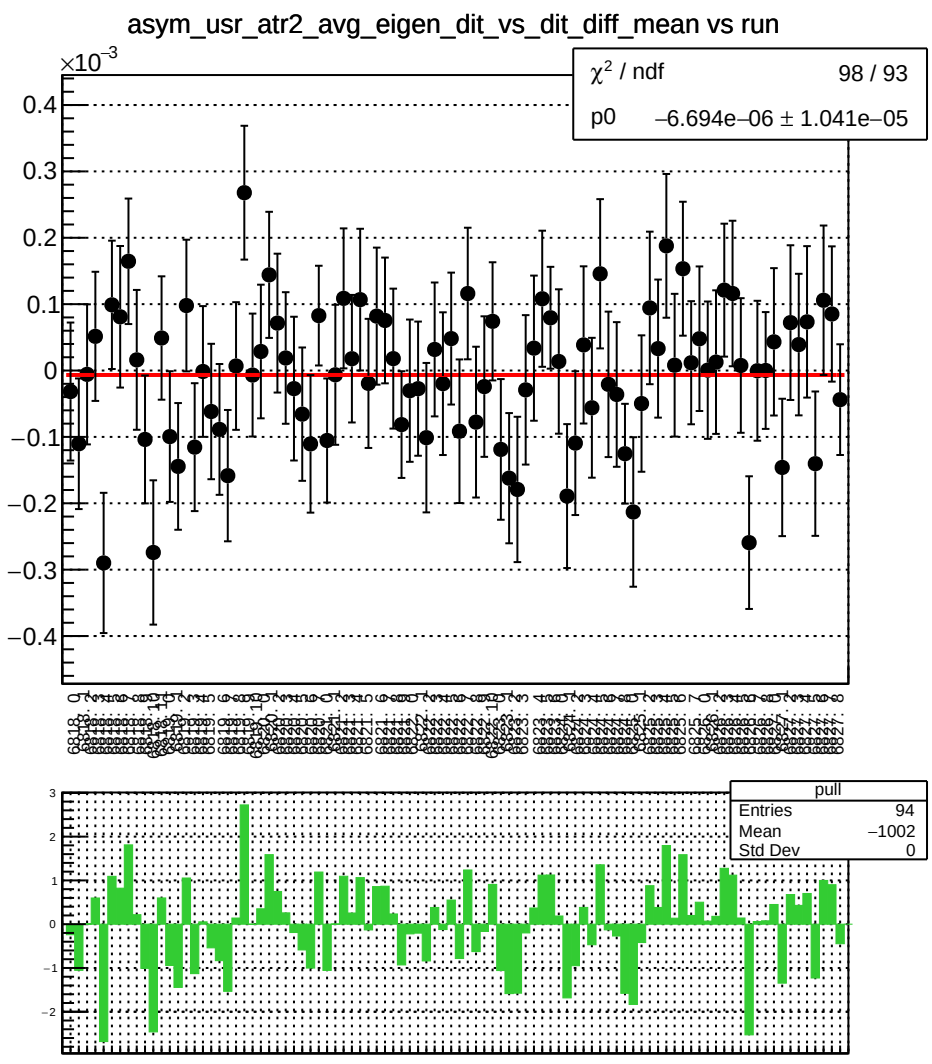

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 93
p0 7.963e−11 ± 9.846e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

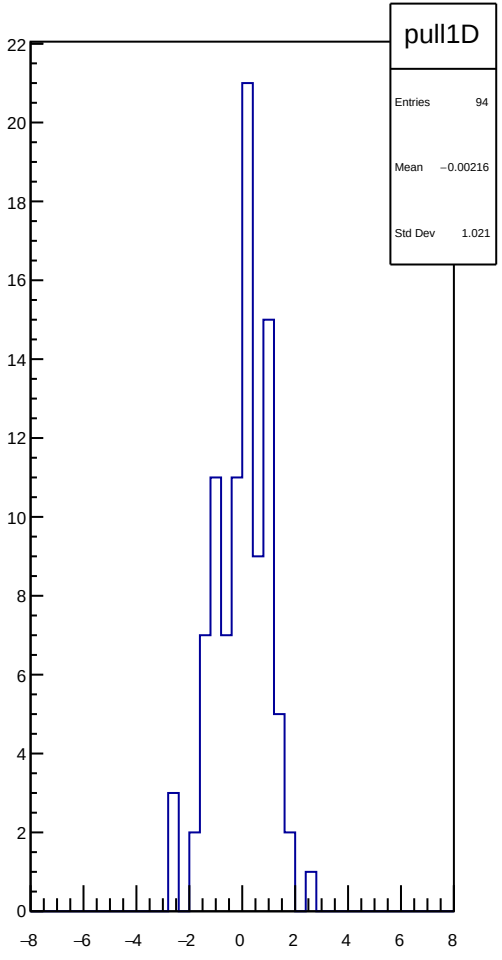

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.61 / 93
p0 0.2076 ± 0.3126
pull
Entries 94
Mean 166.9
Std Dev 0
pull1D
Entries 94
Mean 0.007656
Std Dev 0.9599

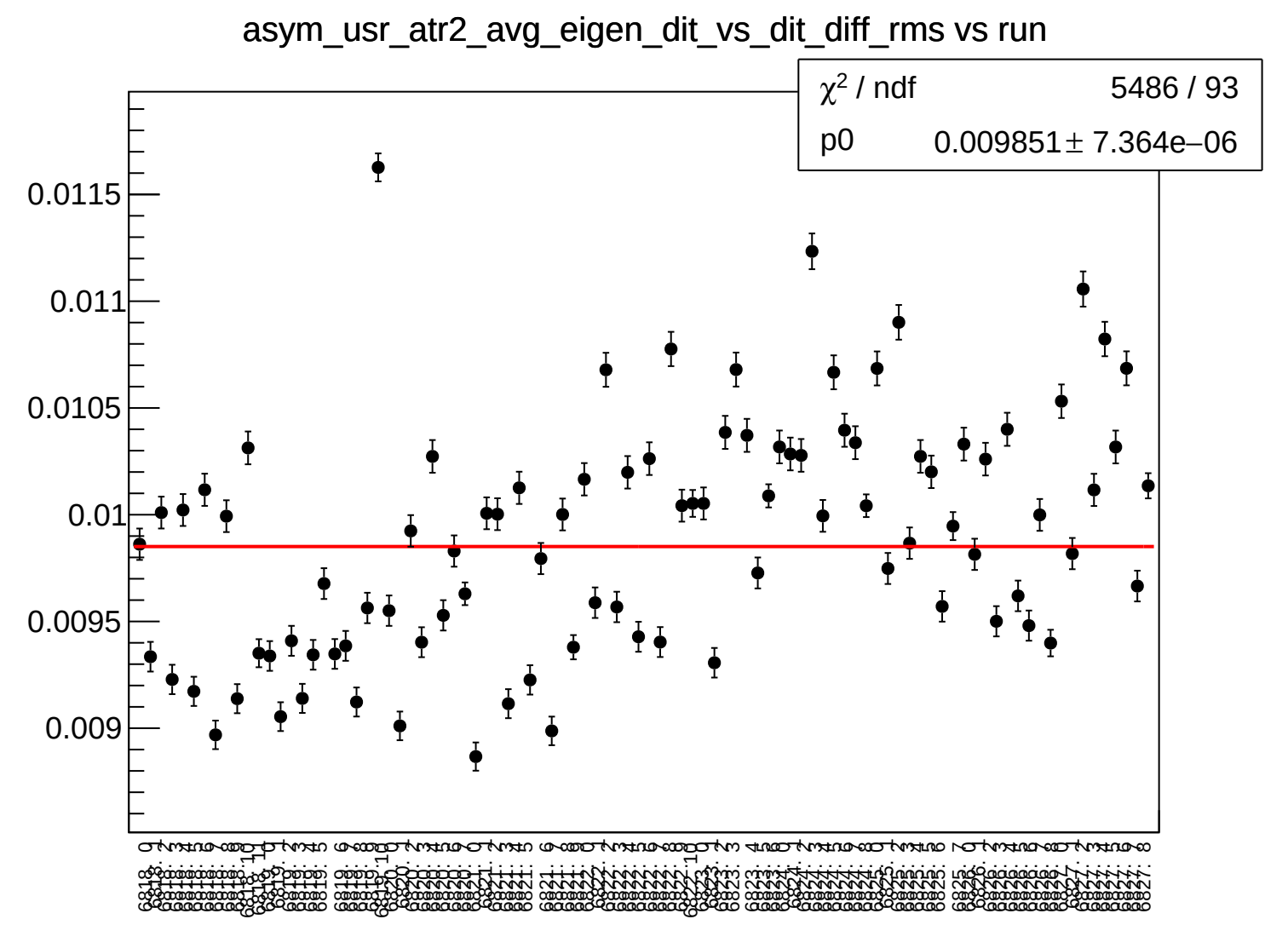

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6438 / 93
p0 295.6 ± 0.221
360
340
320
300
280
260
240

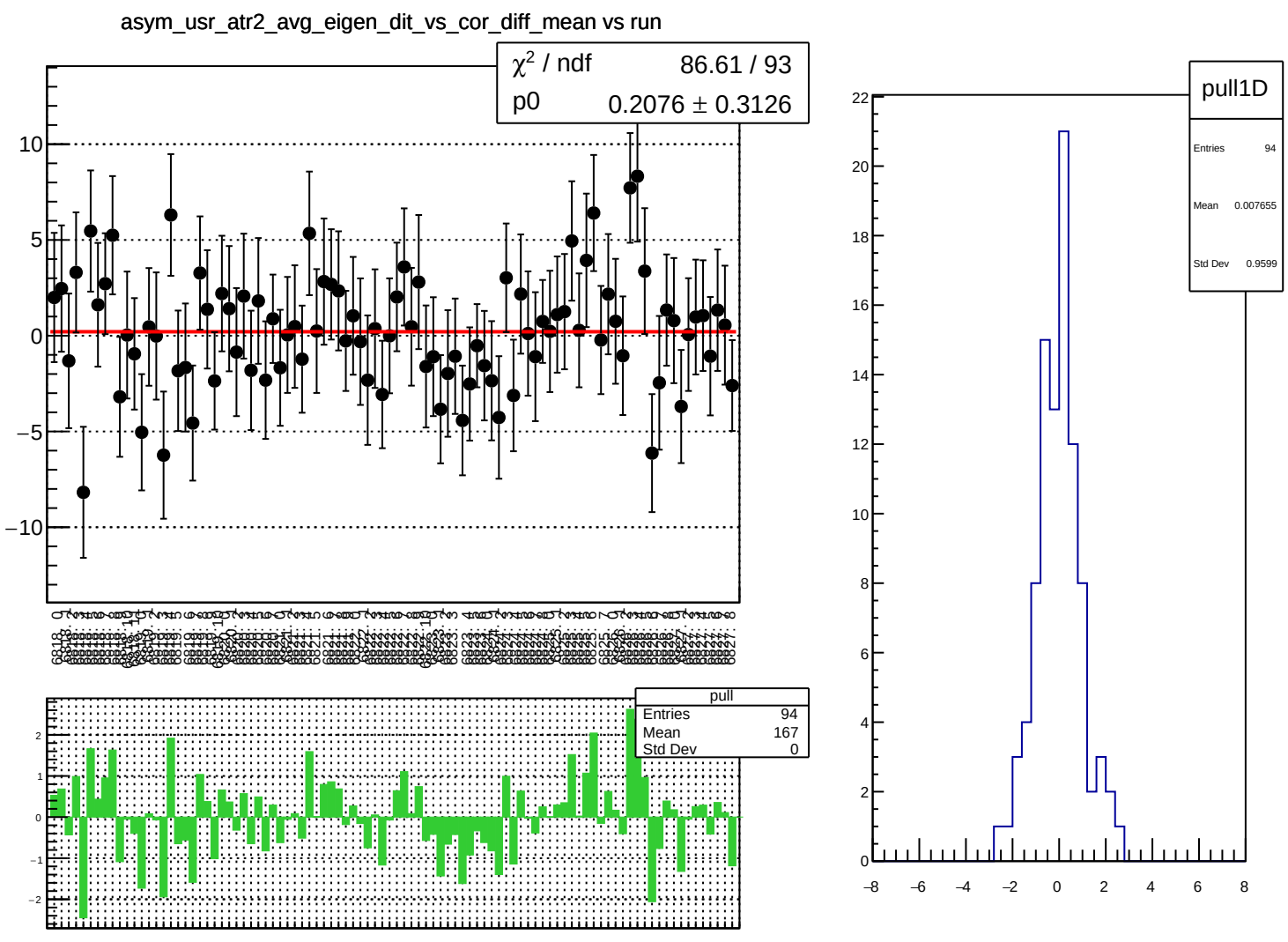

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.61 / 93
p0 0.2076 ± 0.3126
pull
Entries 94
Mean 166.9
Std Dev 0
pull1D
Entries 94
Mean 0.007656
Std Dev 0.9599

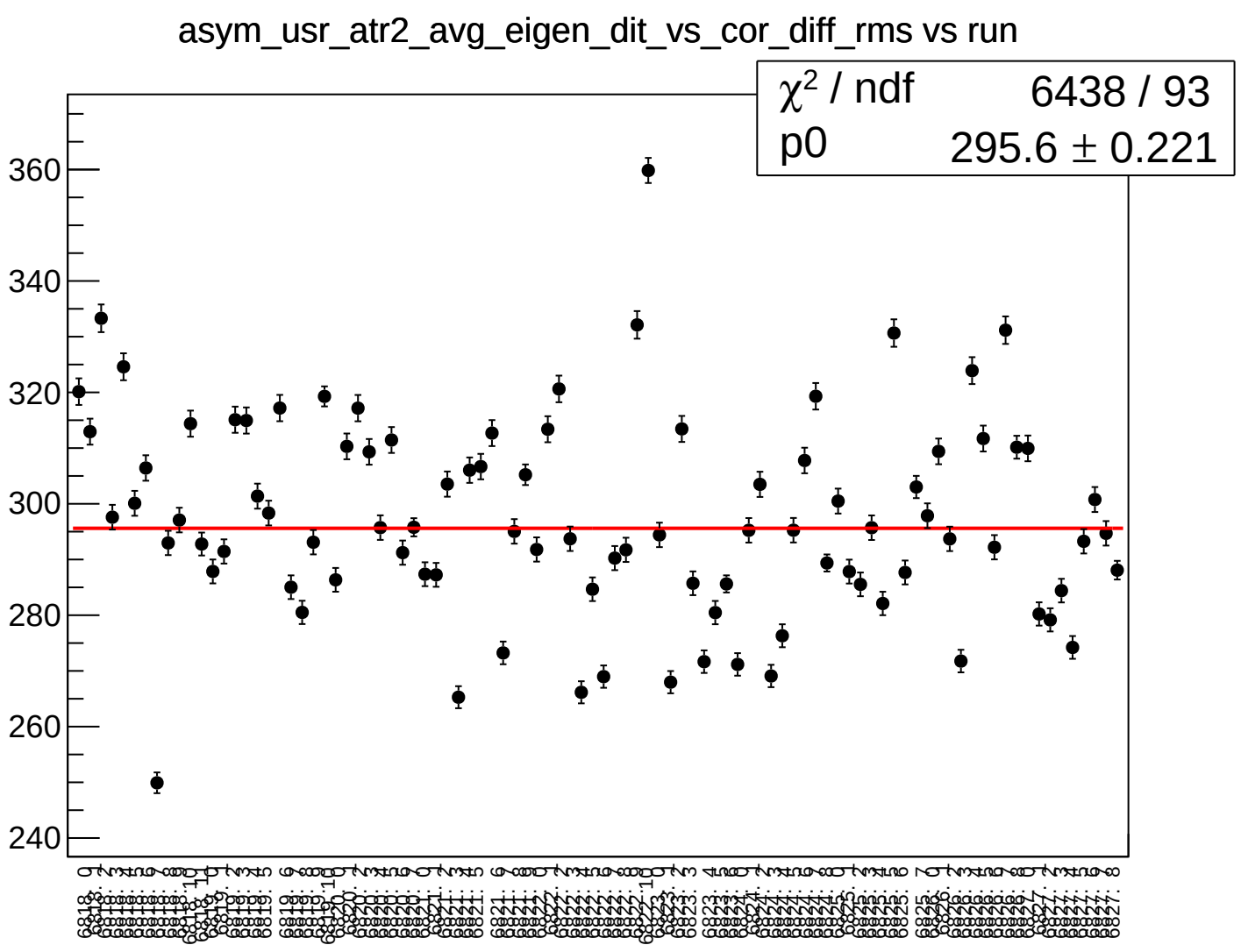

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6438 / 93
p0 295.6 ± 0.221
360
340
320
300
280
260
240

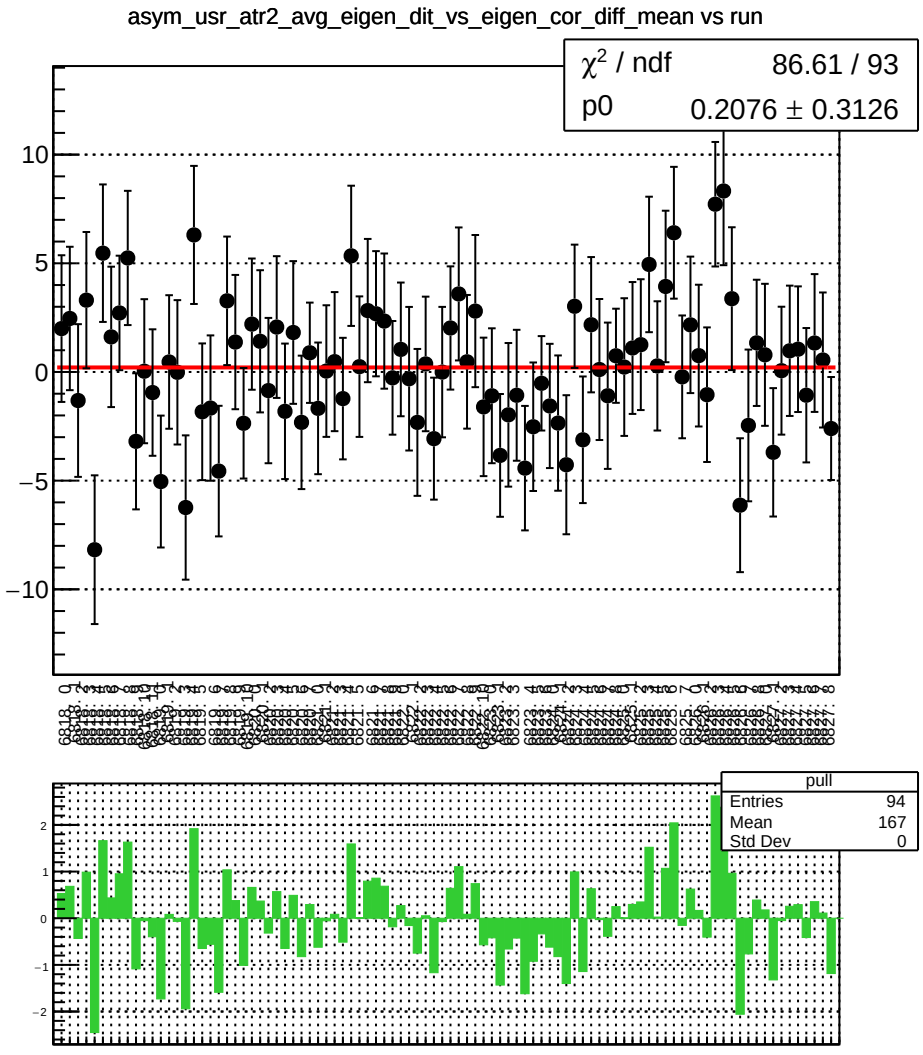

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98 / 93
p0 −6.694e−06 ± 1.041e−05
pull
Entries 94
Mean −1002
Std Dev 0

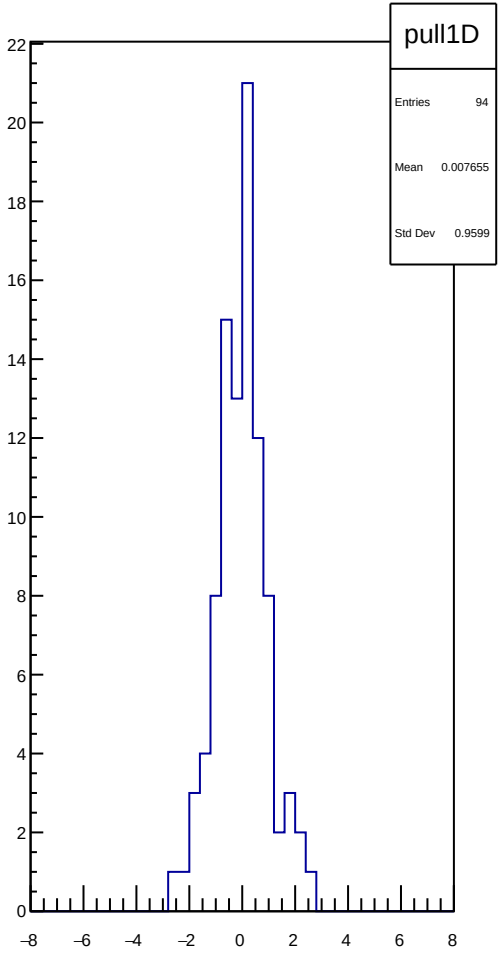

pull1D
Entries 94
Mean −0.00216
Std Dev 1.021

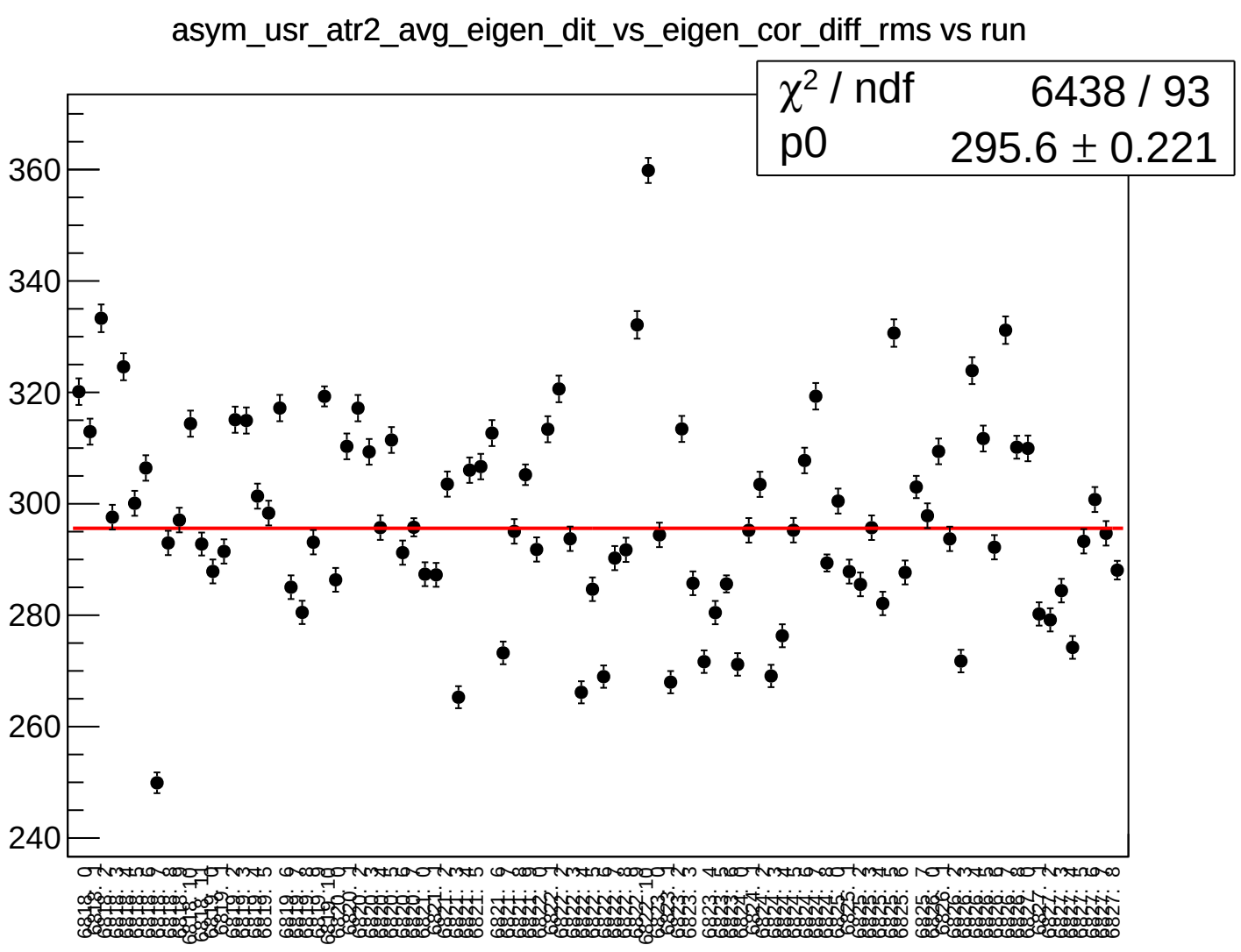

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5486 / 93
p0 0.009851 ± 7.364e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009

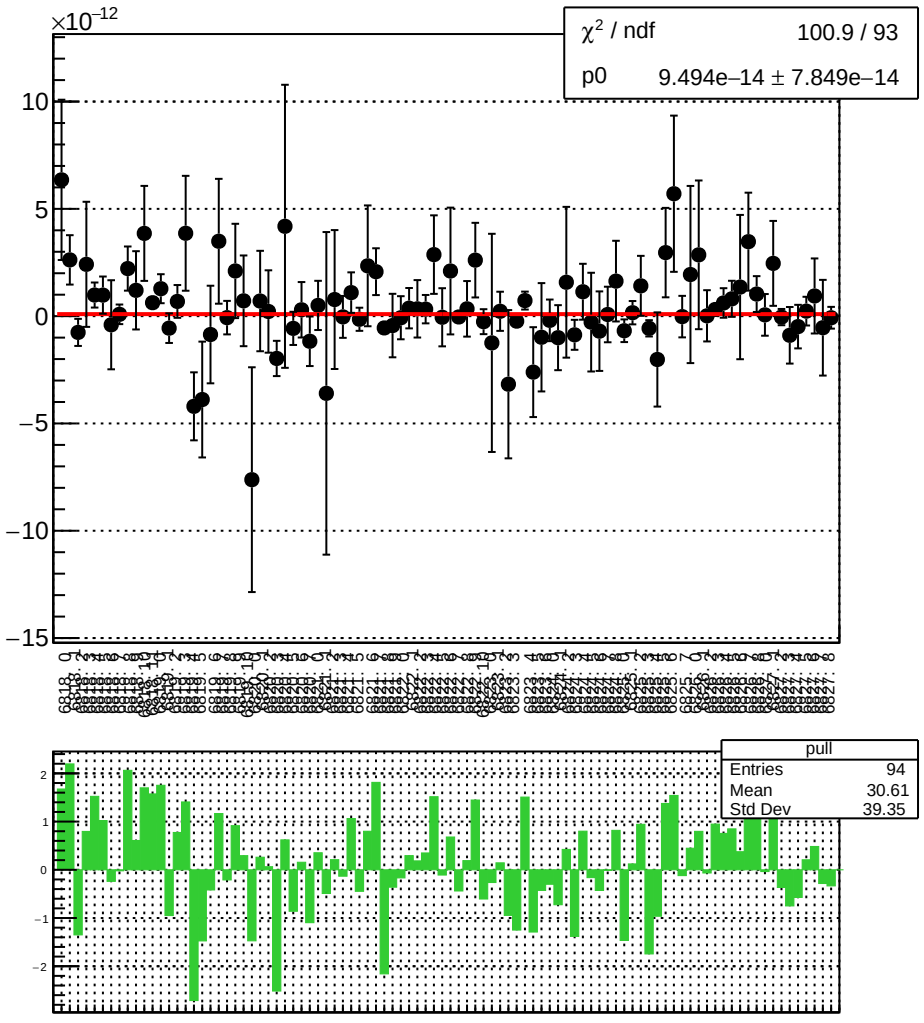

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.61 / 93
p0 0.2076 ± 0.3126
pull
Entries 94
Mean 167
Std Dev 0
pull1D
Entries 94
Mean 0.007655
Std Dev 0.9599

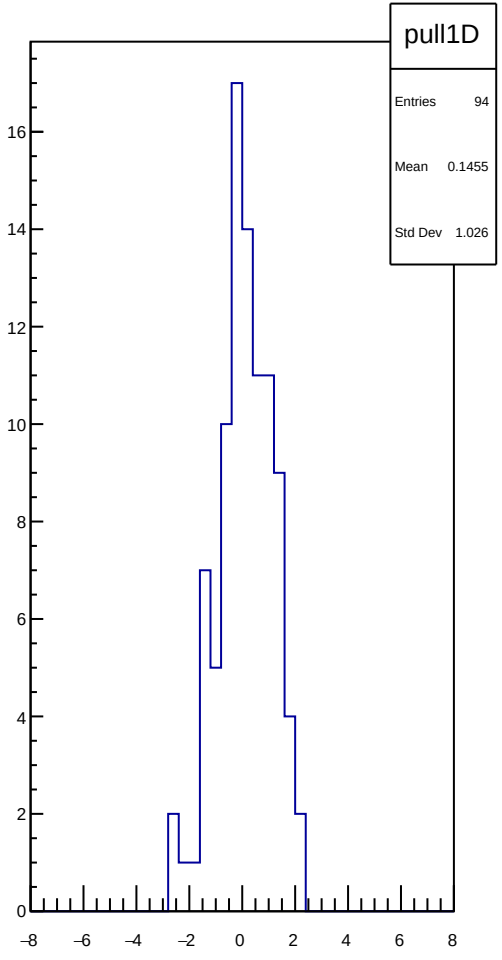

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6438 / 93
p0 295.6 ± 0.221
360
340
320
300
280
260
240

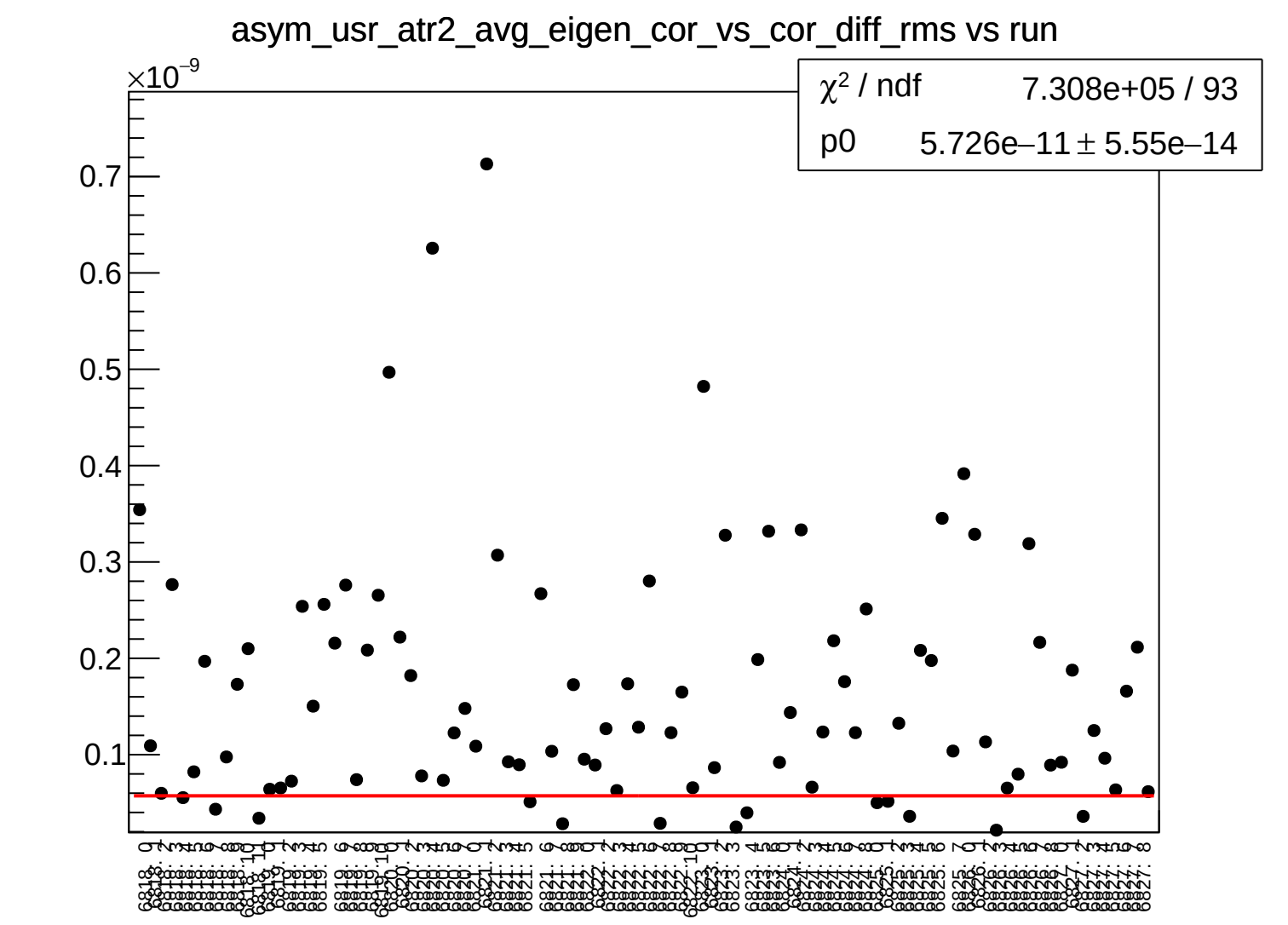

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.61 / 93
p0 0.2076 ± 0.3126
pull
Entries 94
Mean 167
Std Dev 0

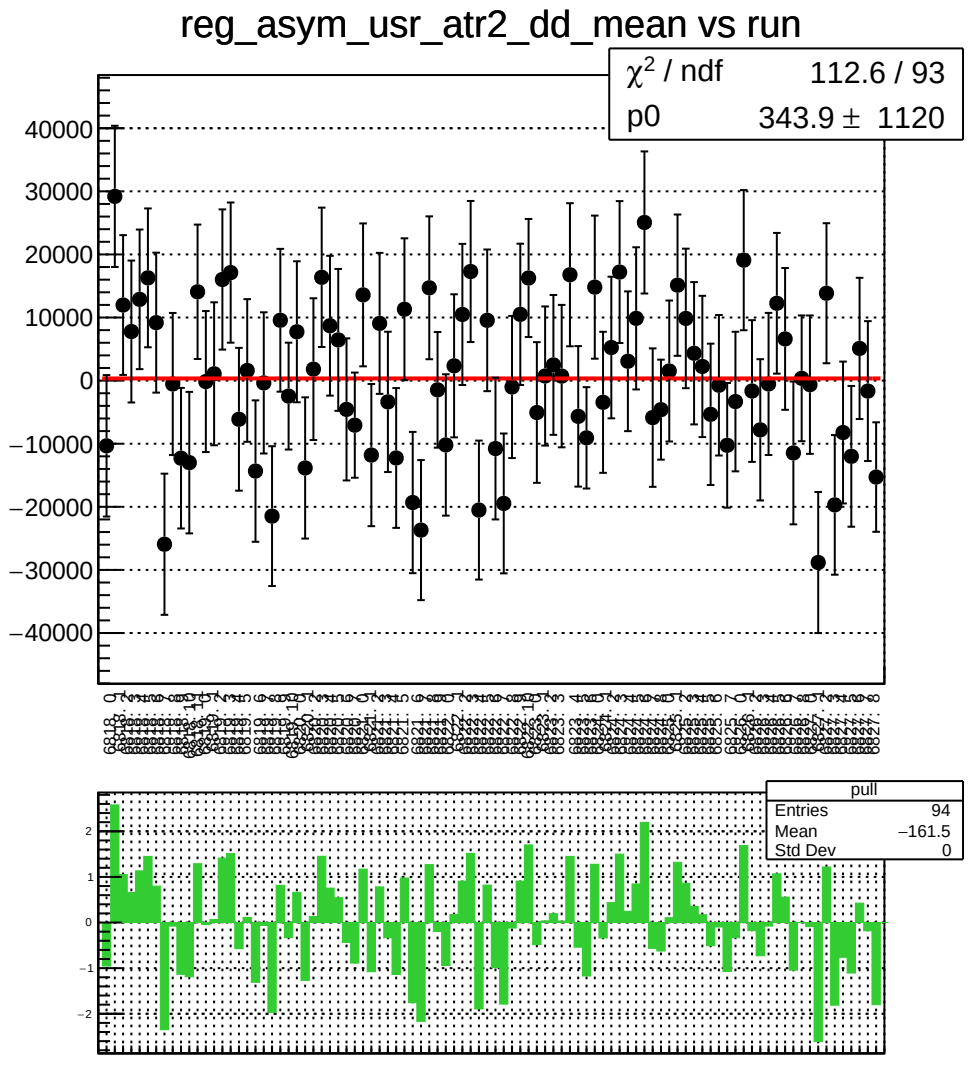

pull1D
Entries 94
Mean 0.007655
Std Dev 0.9599

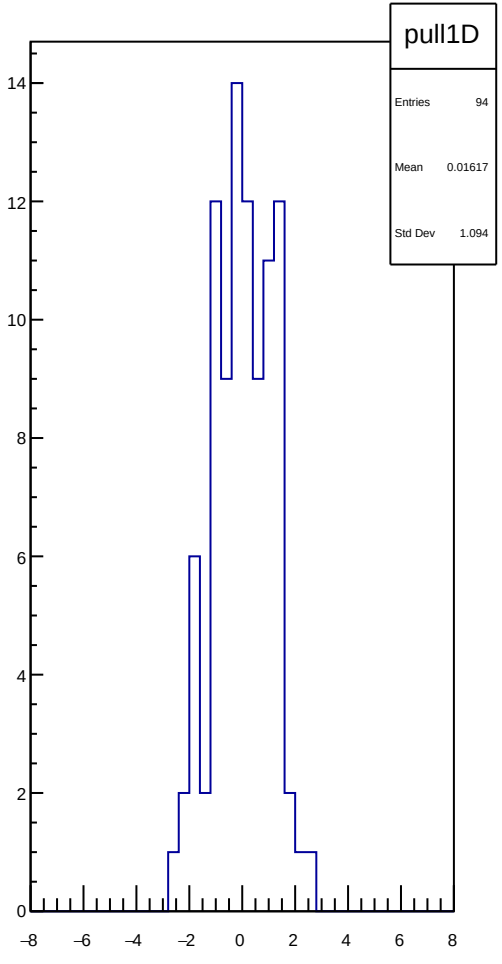

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6438 / 93
p0 295.6 ± 0.221
360
340
320
300
280
260
240

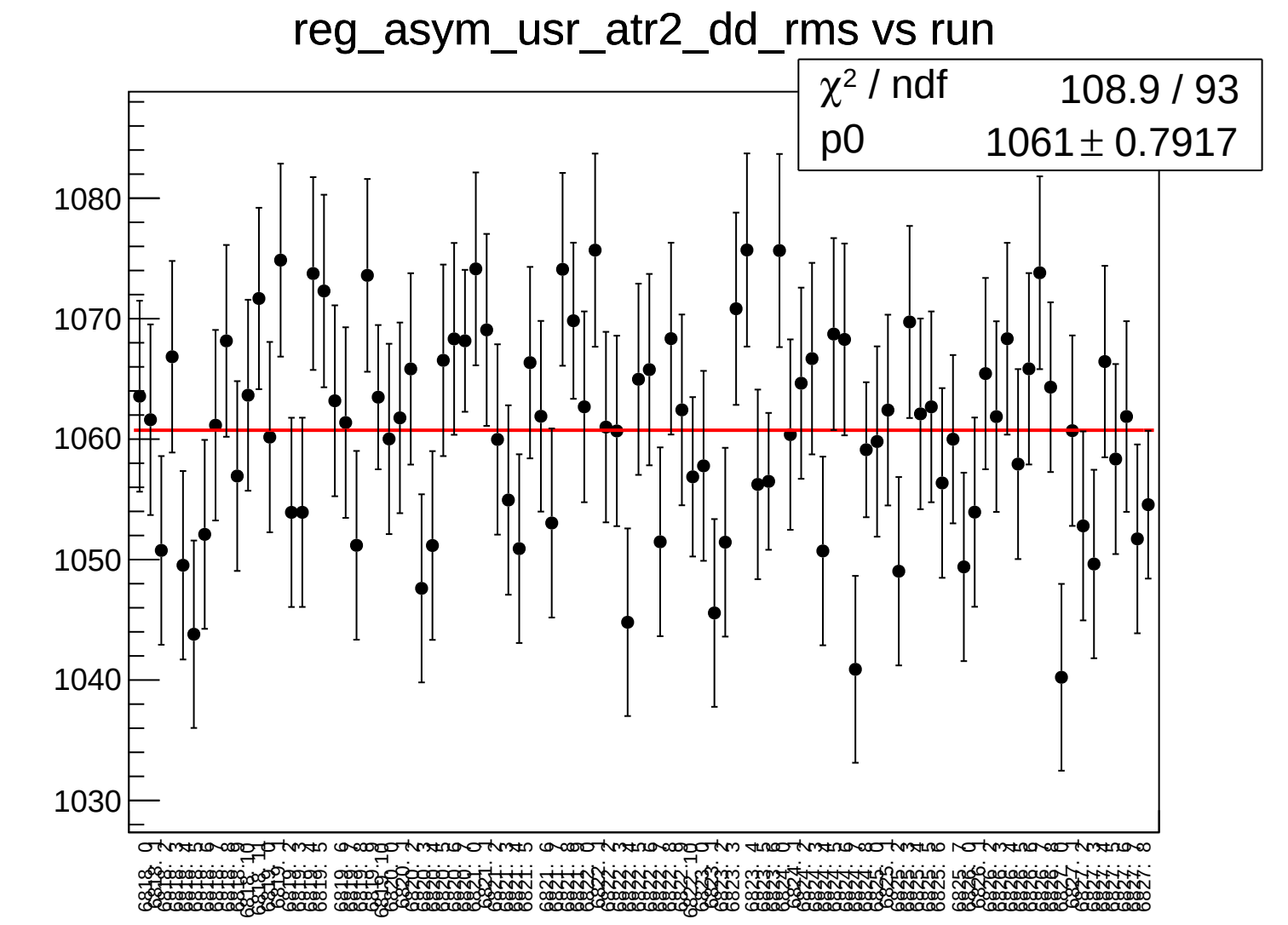

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.9 / 93
p0 9.494e−14 ± 7.849e−14
pull
Entries 94
Mean 30.61
Std Dev 39.35

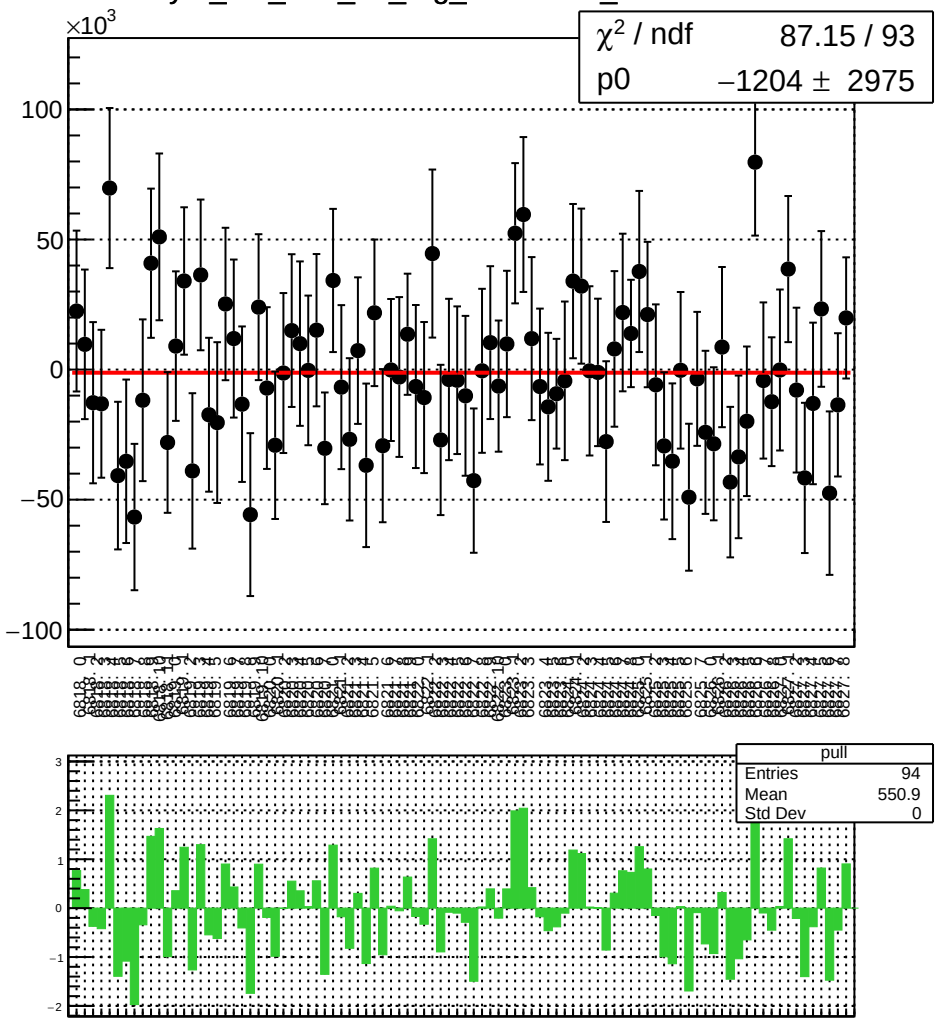

pull1D
Entries 94
Mean 0.1455
Std Dev 1.026

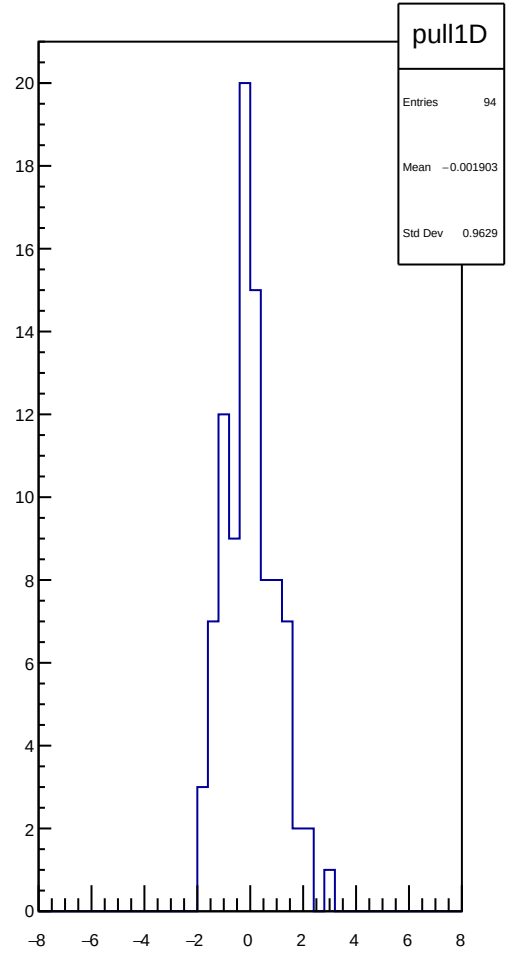

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.308e+05 / 93
p0 5.726e−11 ± 5.55e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

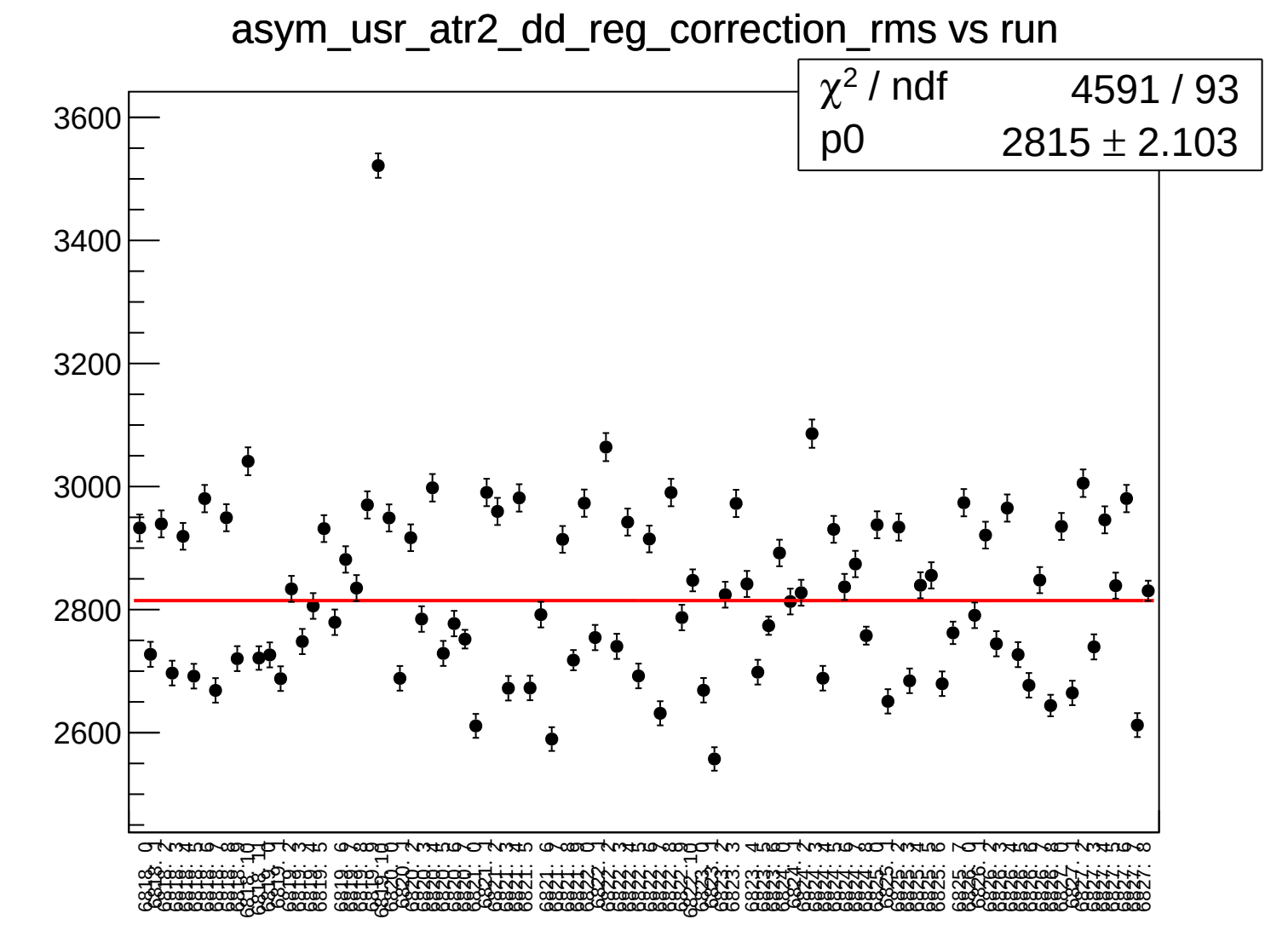

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 112.6 / 93
p0 343.9 ± 1120
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −161.5
Std Dev 0
2
1
0
−1
−2

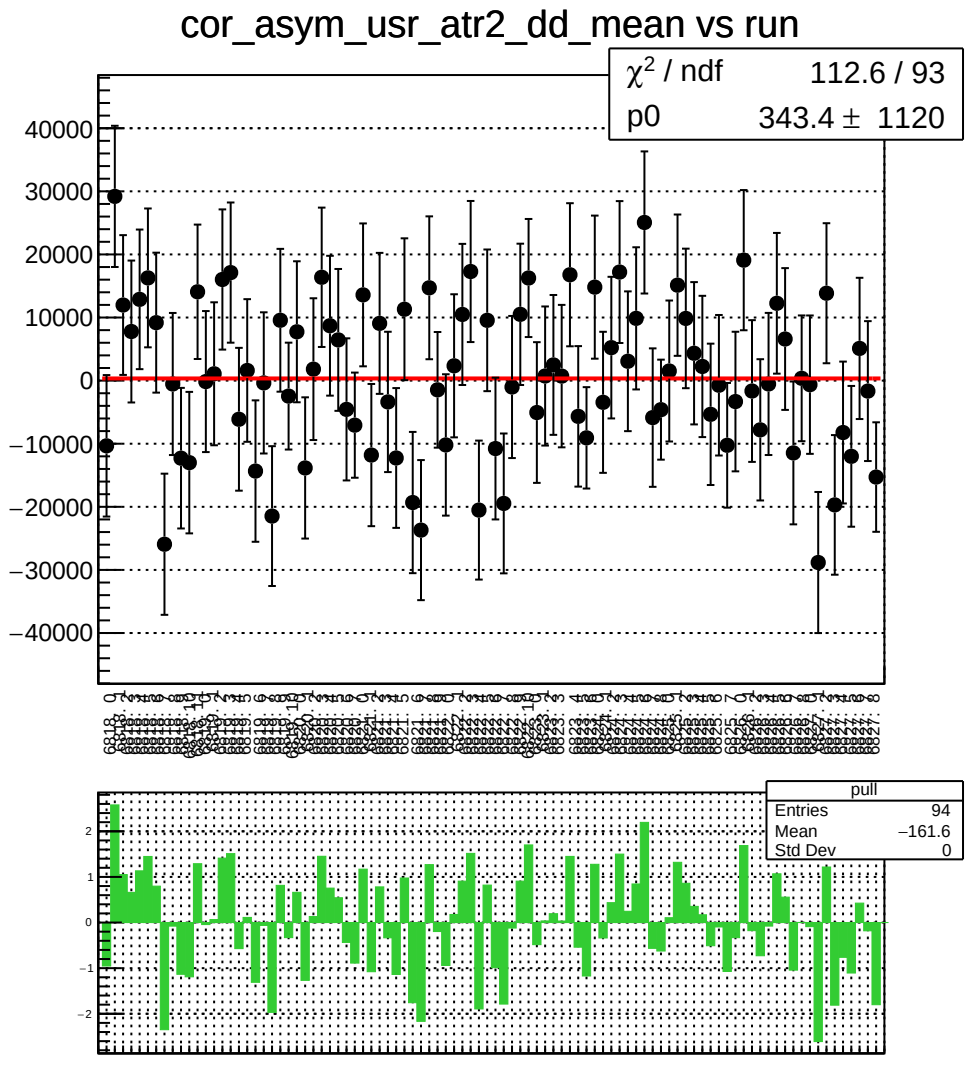

pull1D
Entries 94
Mean 0.01617
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

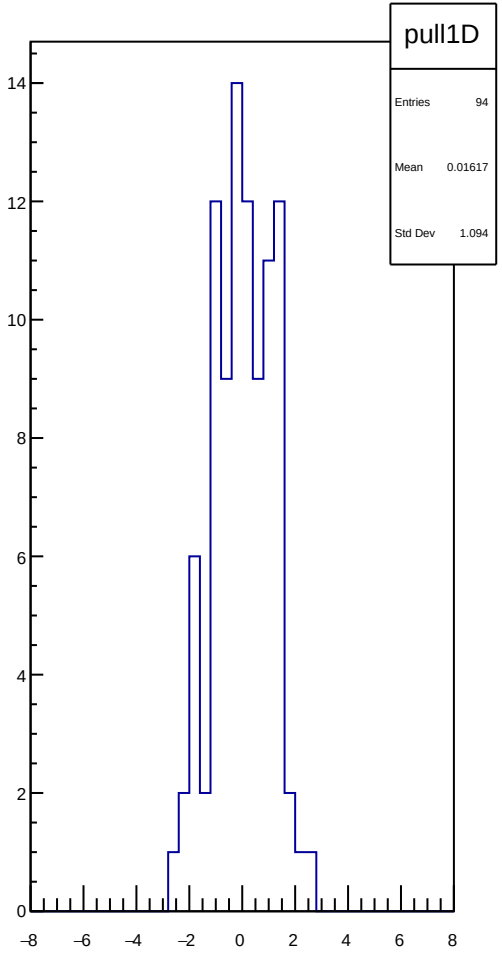

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 108.9 / 93
p0 1061 ± 0.7917
1080
1070
1060
1050
1040
1030

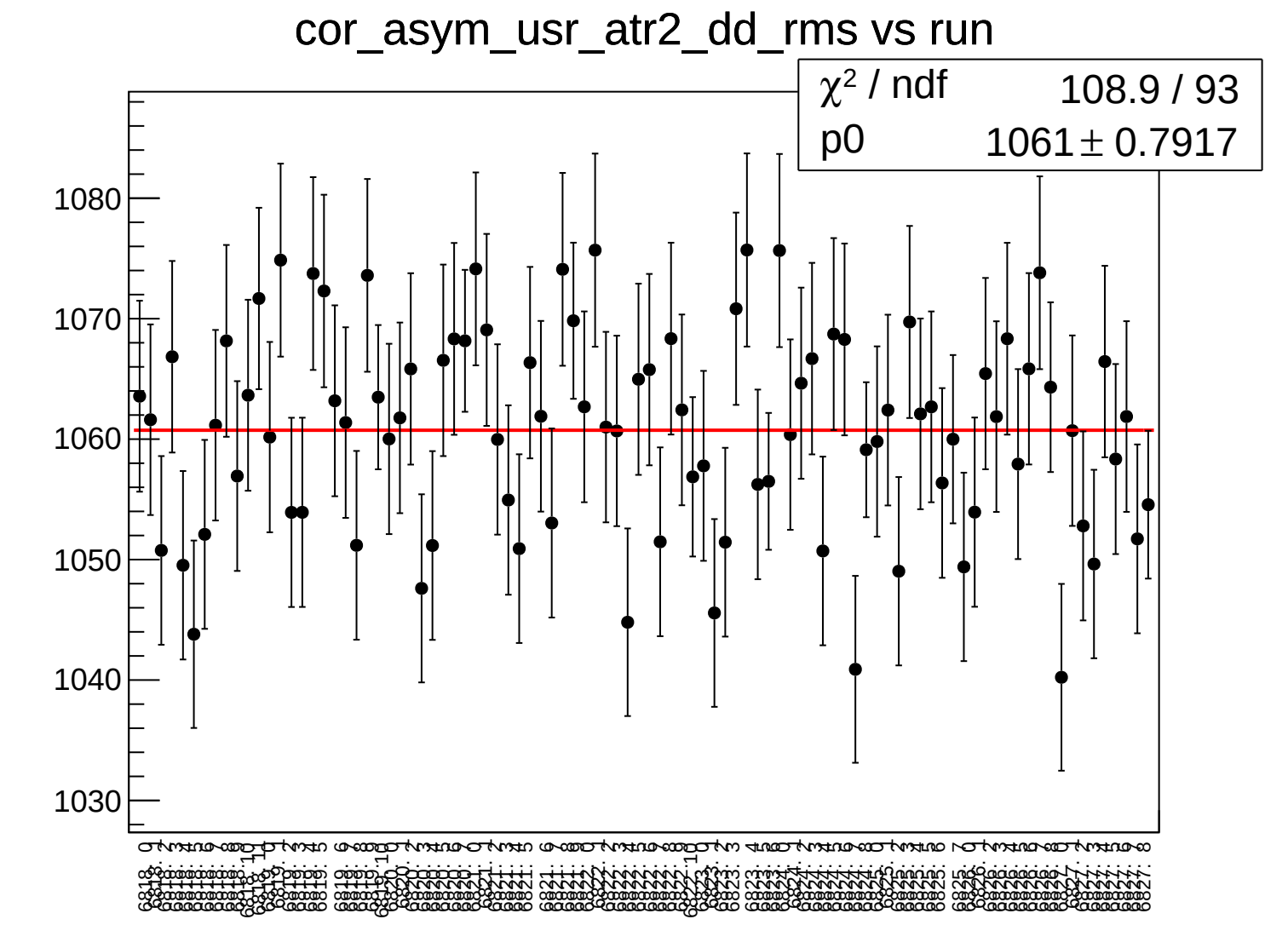

asym_usr_atr2_dd_reg_correction_mean vs run
χ² / ndf 87.15 / 93
p0 −1204 ± 2975
×10³
pull
Entries 94
Mean 550.9
Std Dev 0

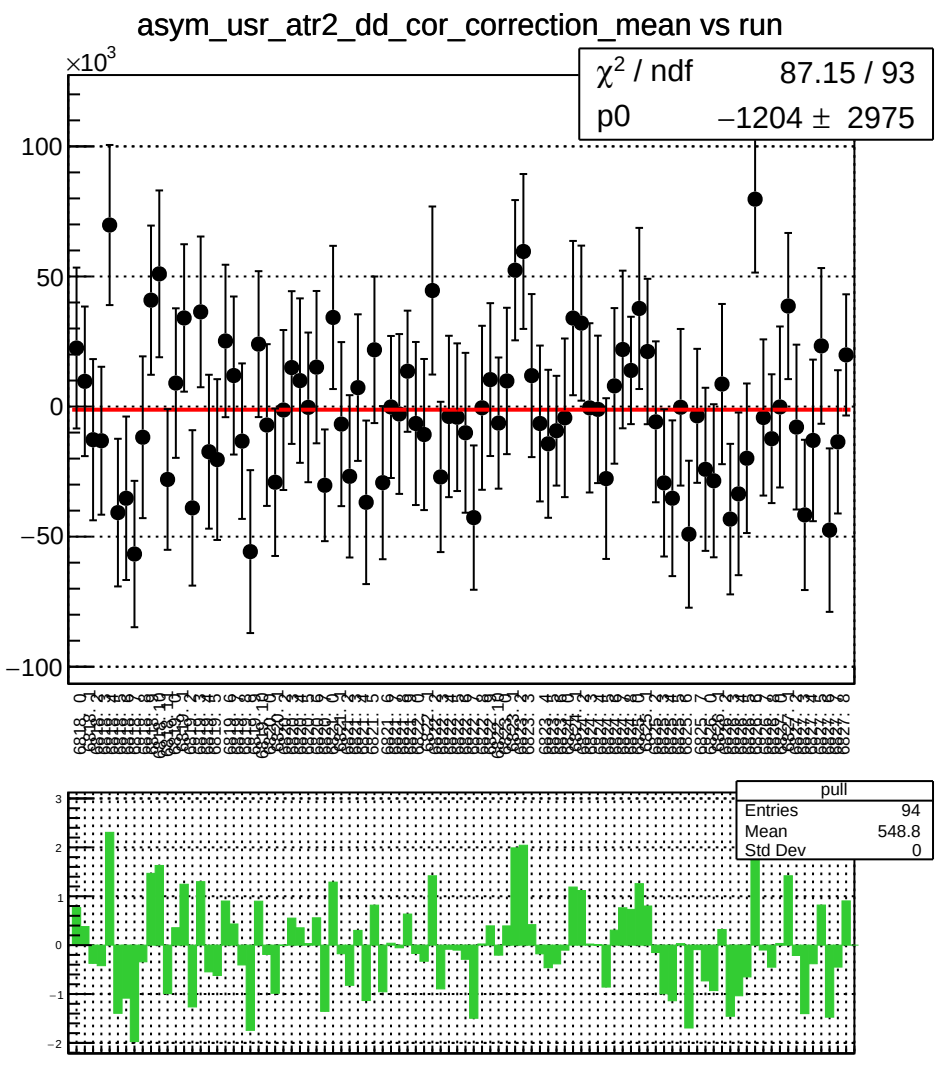

pull1D
Entries 94
Mean −0.001903
Std Dev 0.9629

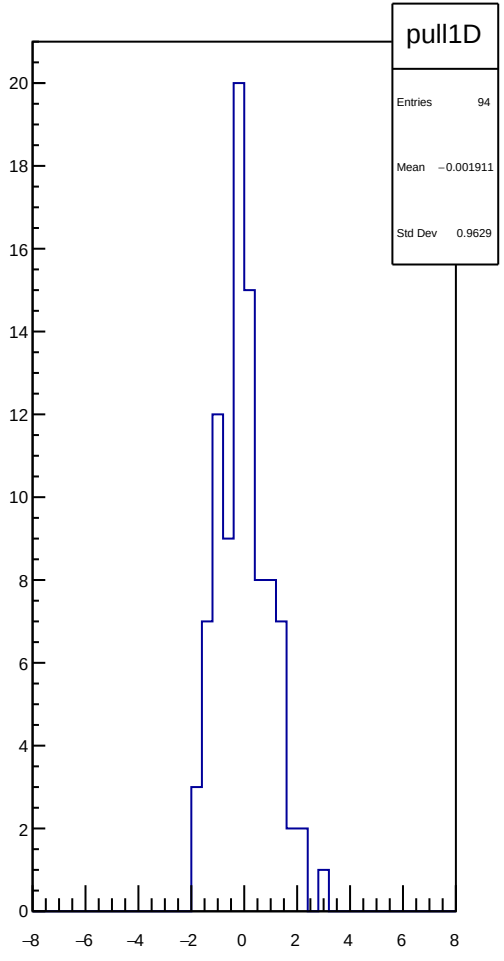

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4591 / 93
p0 2815 ± 2.103
3600
3400
3200
3000
2800
2600

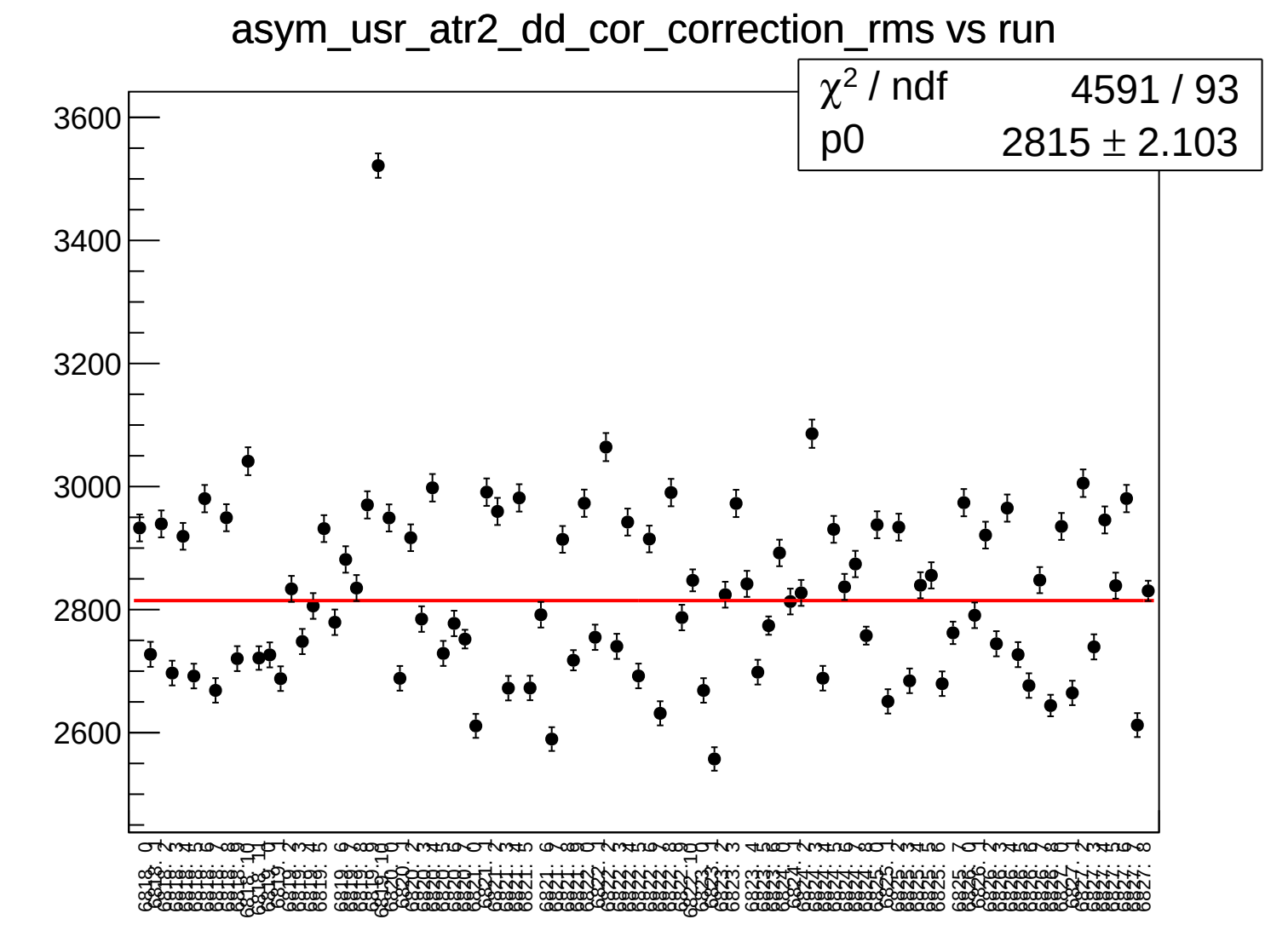

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 112.6 / 93
p0 343.4 ± 1120
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −161.6
Std Dev 0
2
1
0
−1
−2

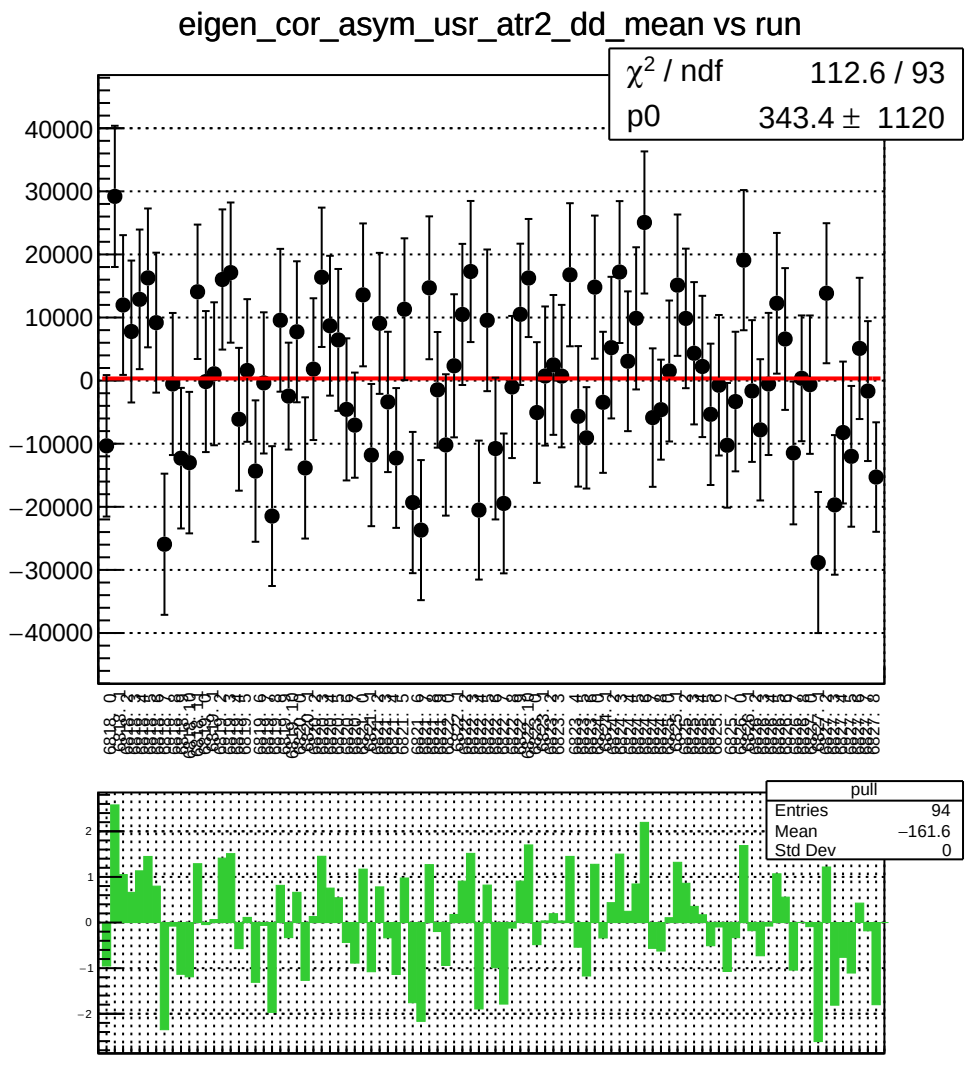

pull1D
Entries 94
Mean 0.01617
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

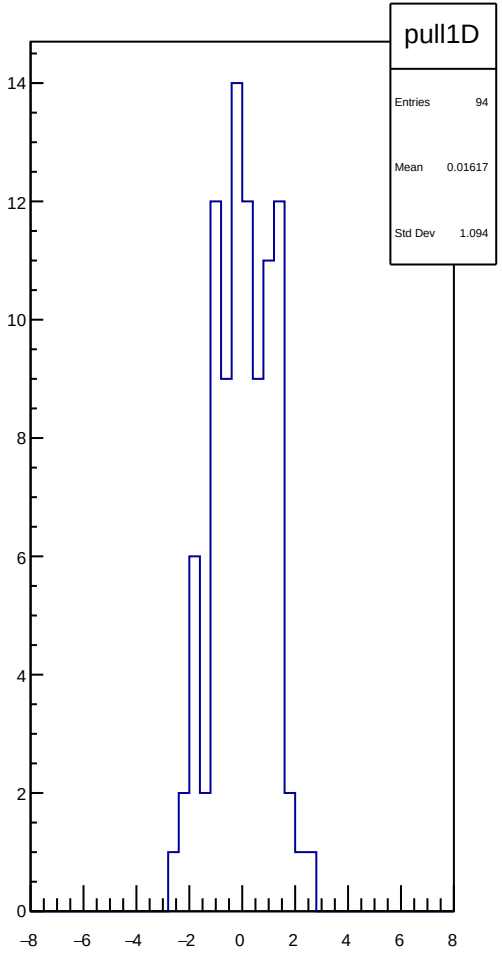

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 108.9 / 93
p0 1061 ± 0.7917
1080
1070
1060
1050
1040
1030

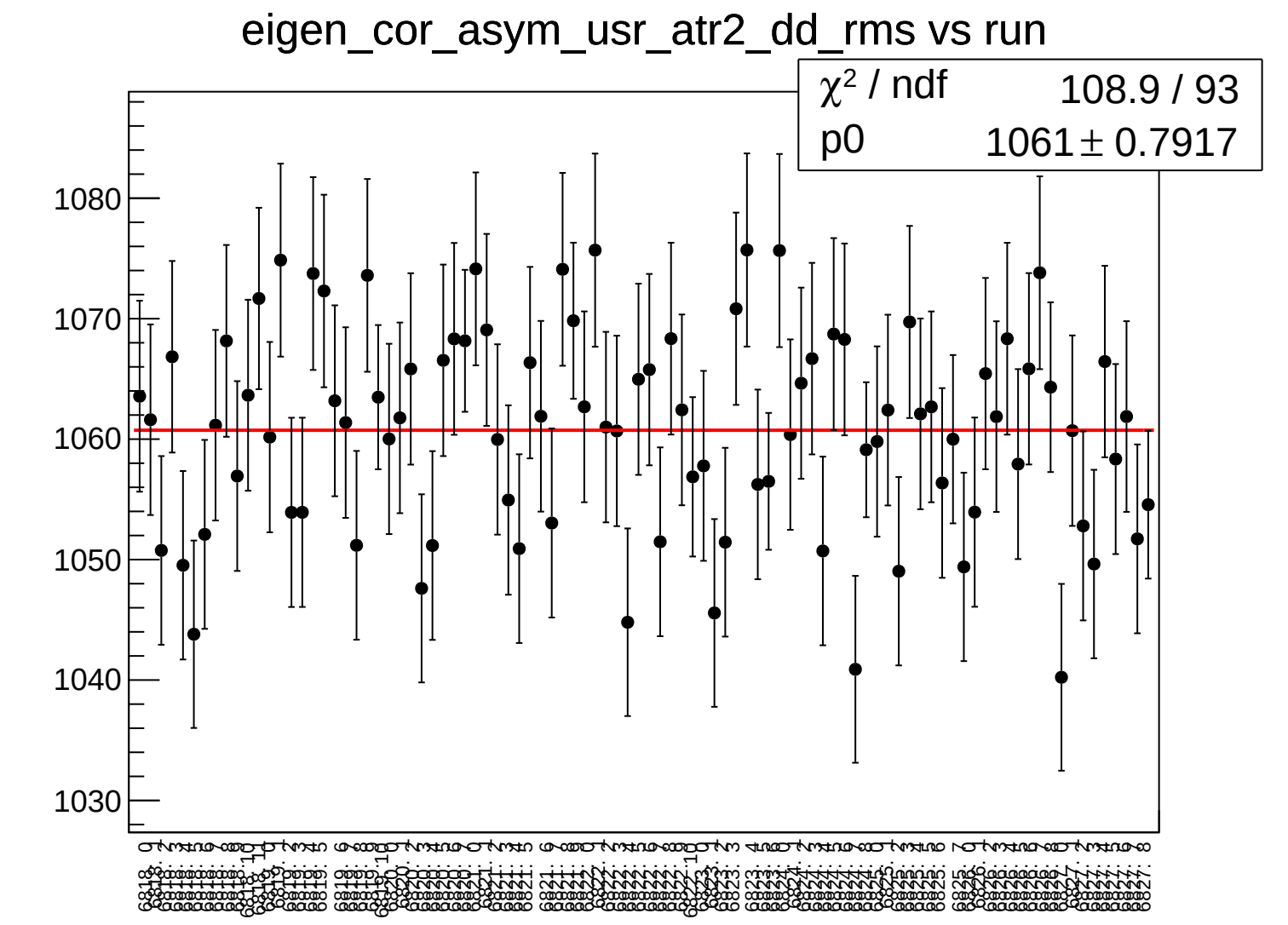

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.15 / 93
p0 −1204 ± 2975
100
50
0
−50
−100
pull
Entries 94
Mean 548.8
Std Dev 0
3
2
1
0
−1
−2

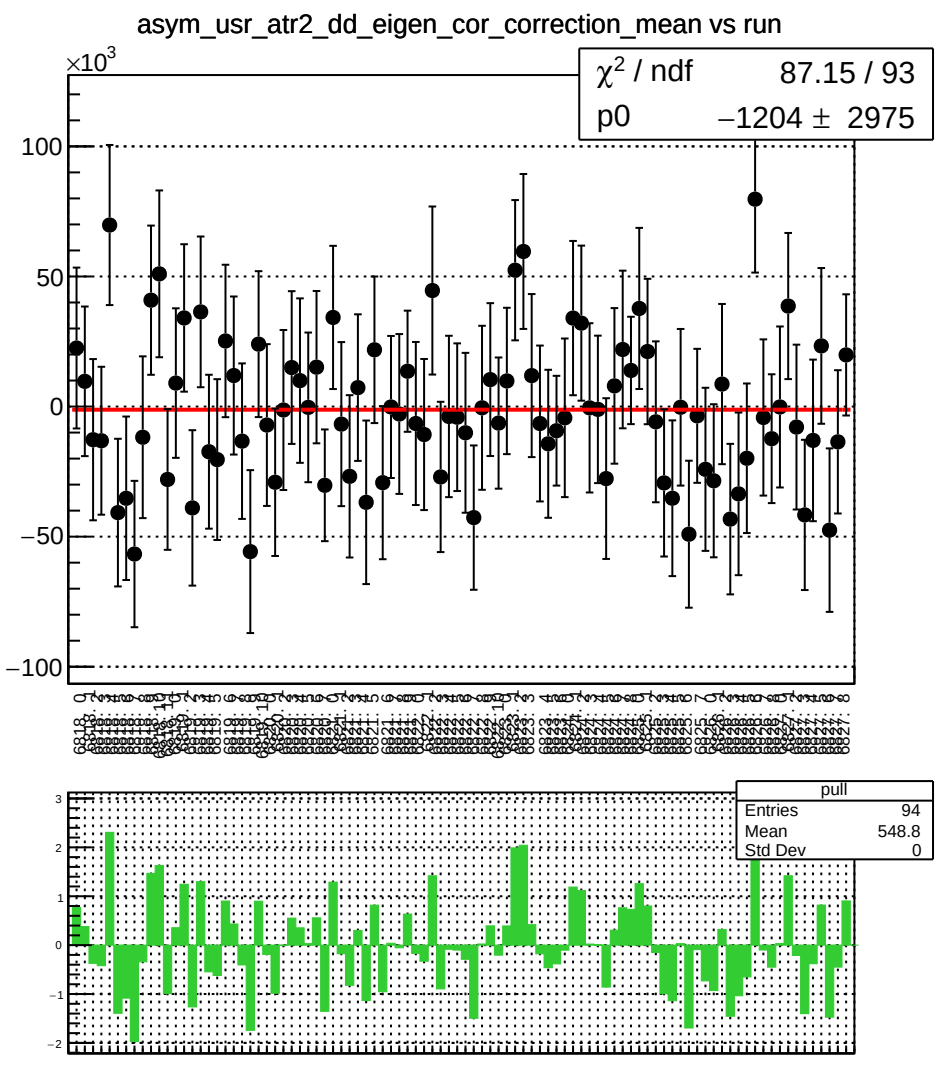

pull1D
Entries 94
Mean −0.001911
Std Dev 0.9629
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

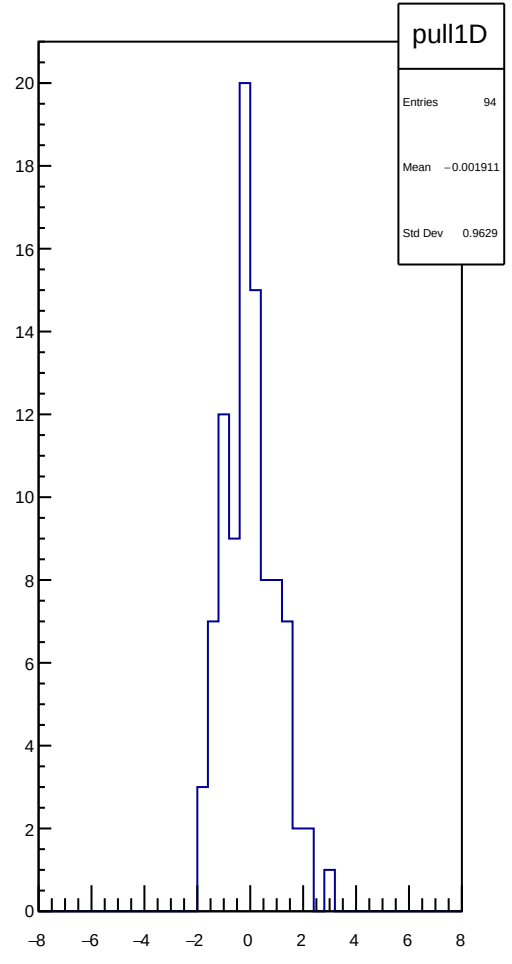

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4591 / 93
p0 2815 ± 2.103
3600
3400
3200
3000
2800
2600

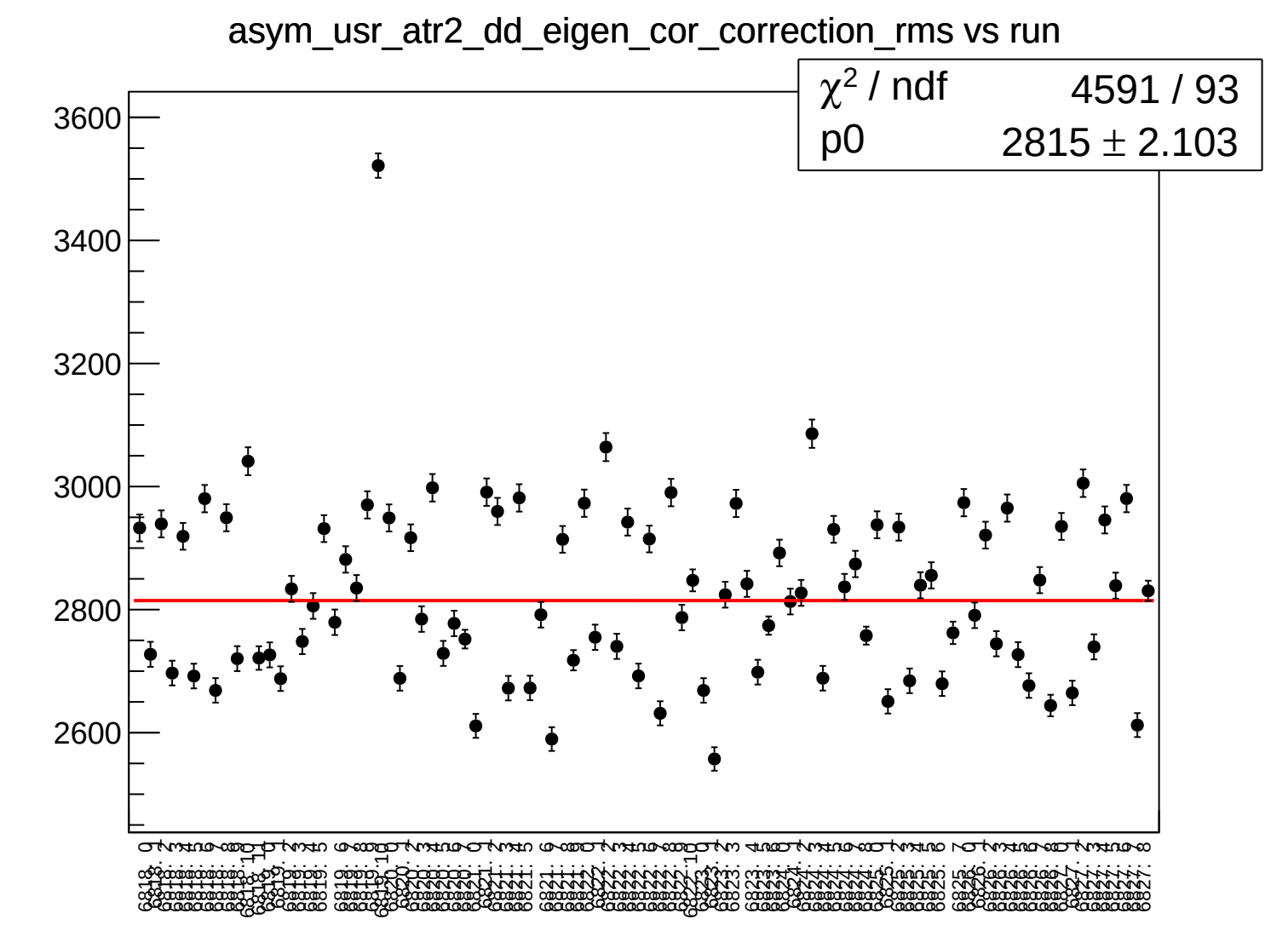

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 112.6 / 93
p0 343.4 ± 1120
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −161.6
Std Dev 0
2
1
0
−1
−2

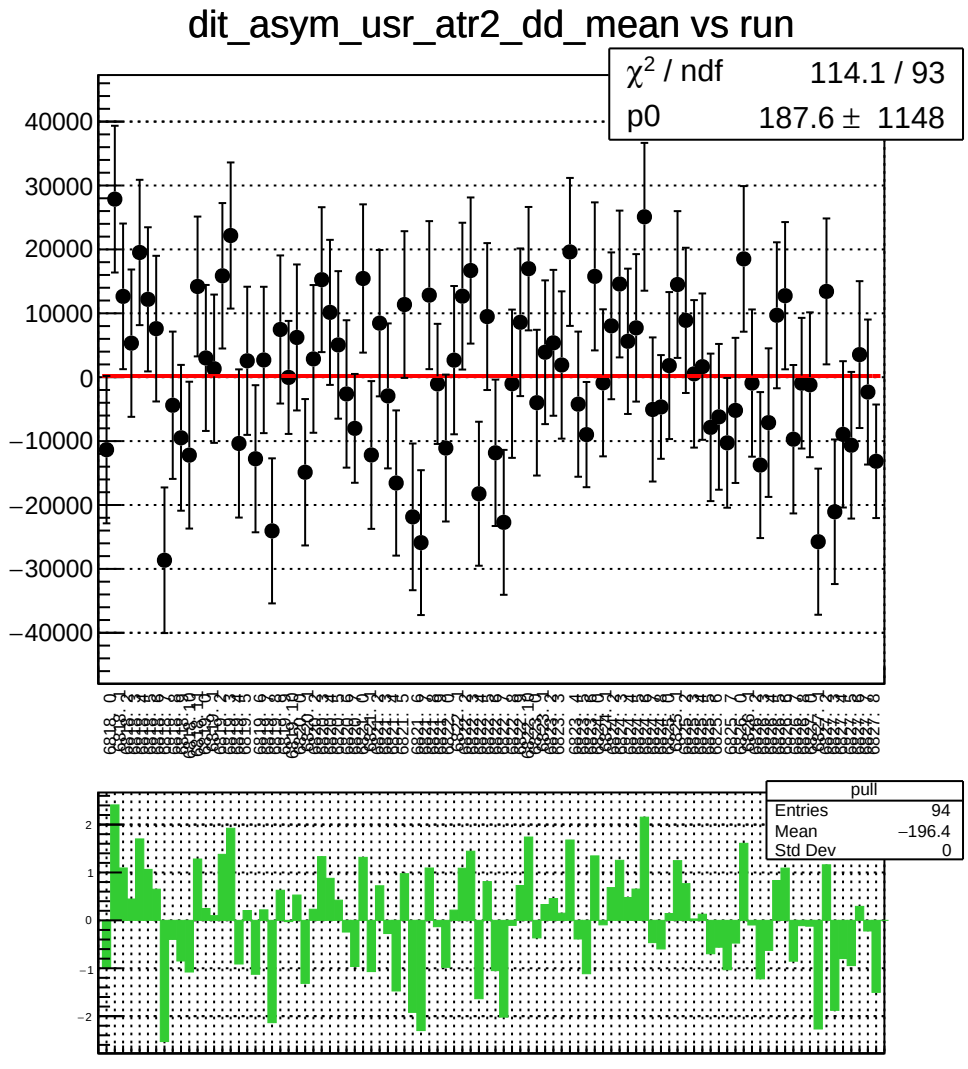

pull1D
Entries 94
Mean 0.01617
Std Dev 1.094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

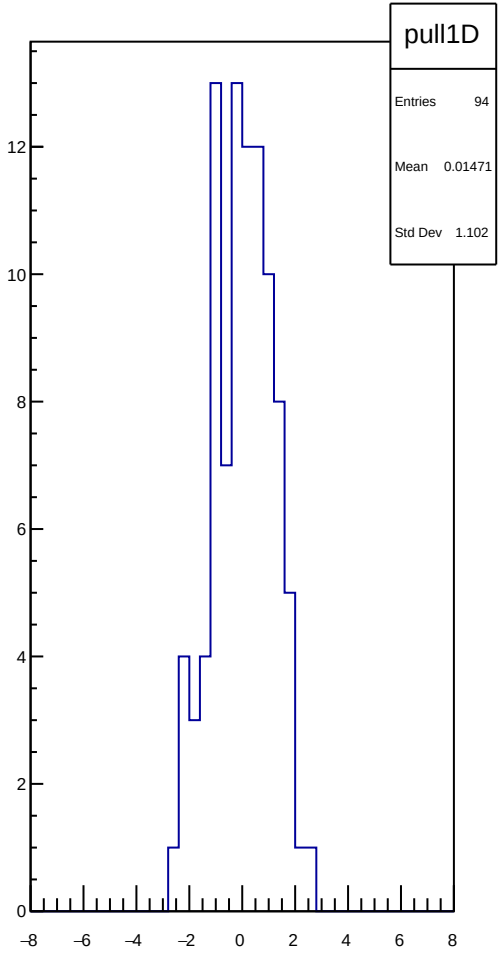

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 108.9 / 93
p0 1061 ± 0.7917
1080
1070
1060
1050
1040
1030

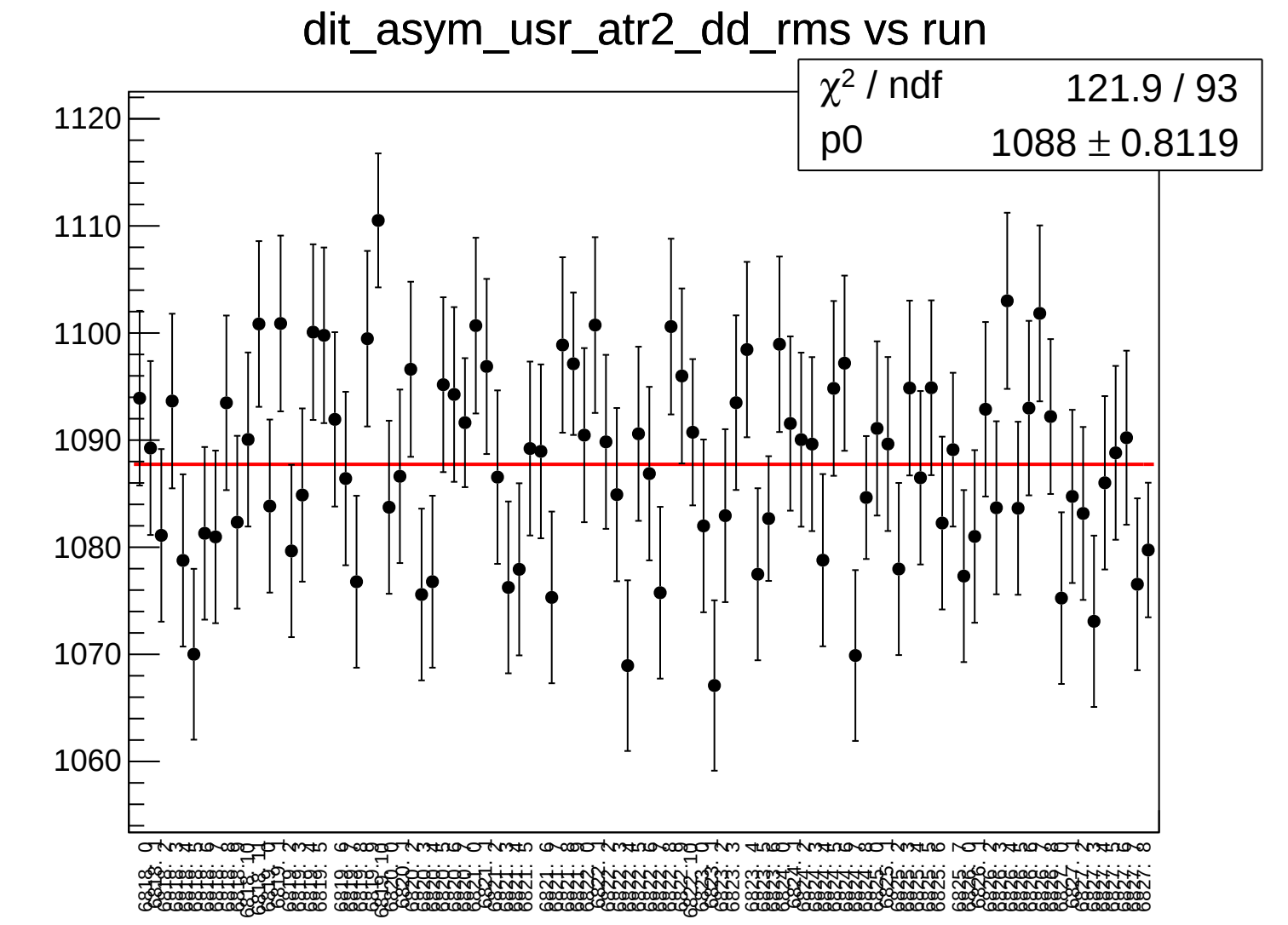

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.15 / 93
p0 −1204 ± 2975
100
50
0
−50
−100
pull
Entries 94
Mean 548.8
Std Dev 0
3
2
1
0
−1
−2

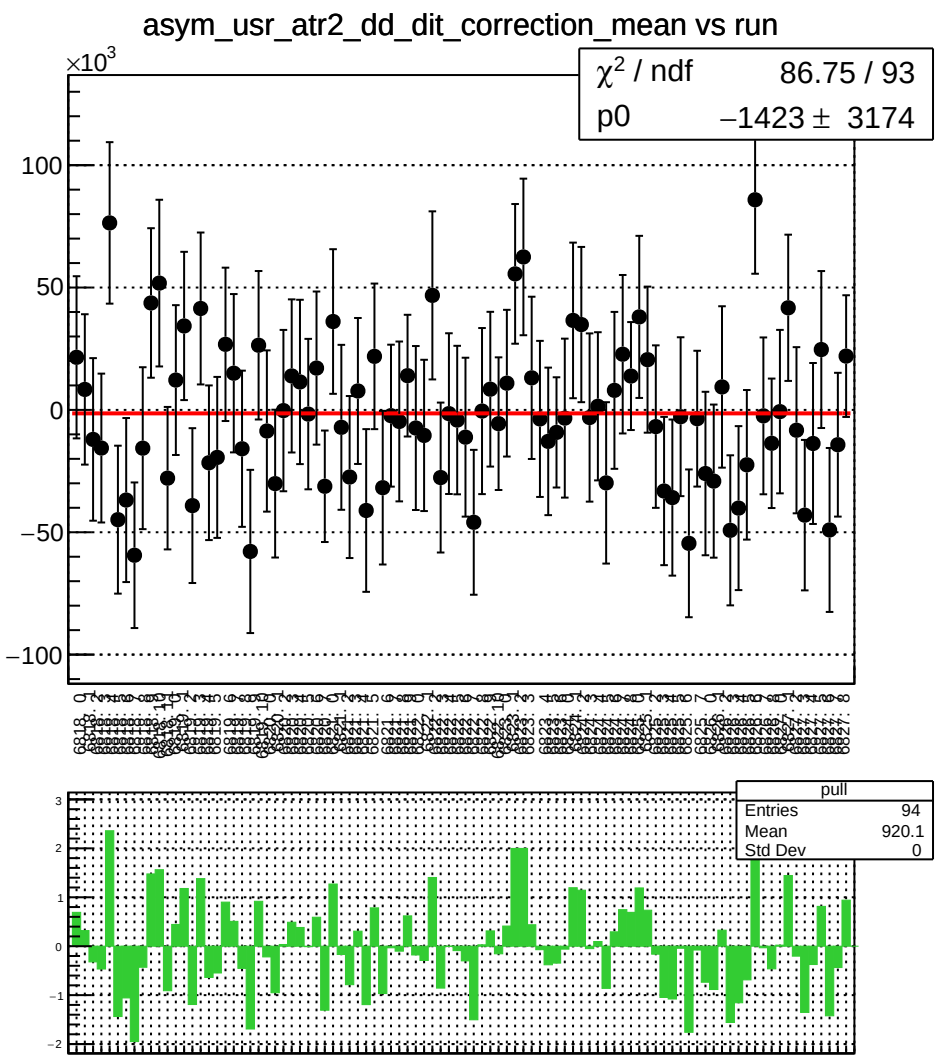

pull1D
Entries 94
Mean −0.001911
Std Dev 0.9629
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

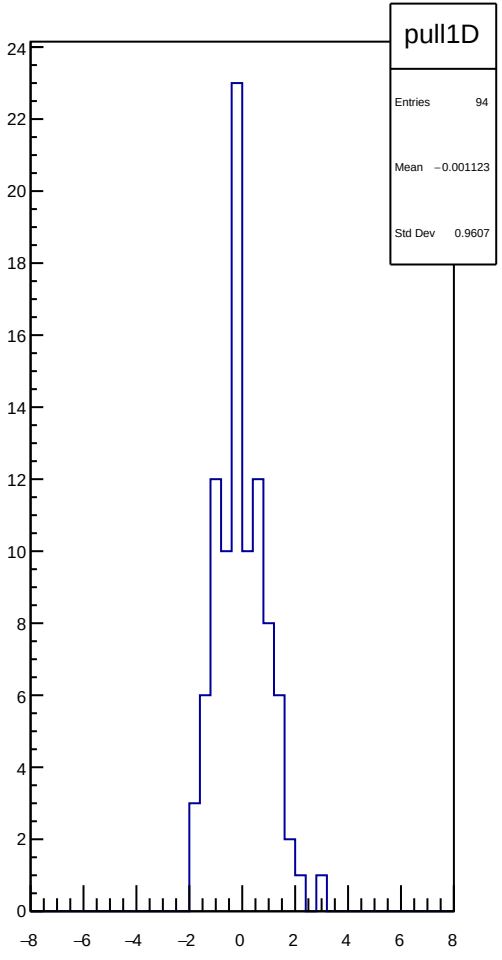

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4591 / 93
p0 2815 ± 2.103
3600
3400
3200
3000
2800
2600

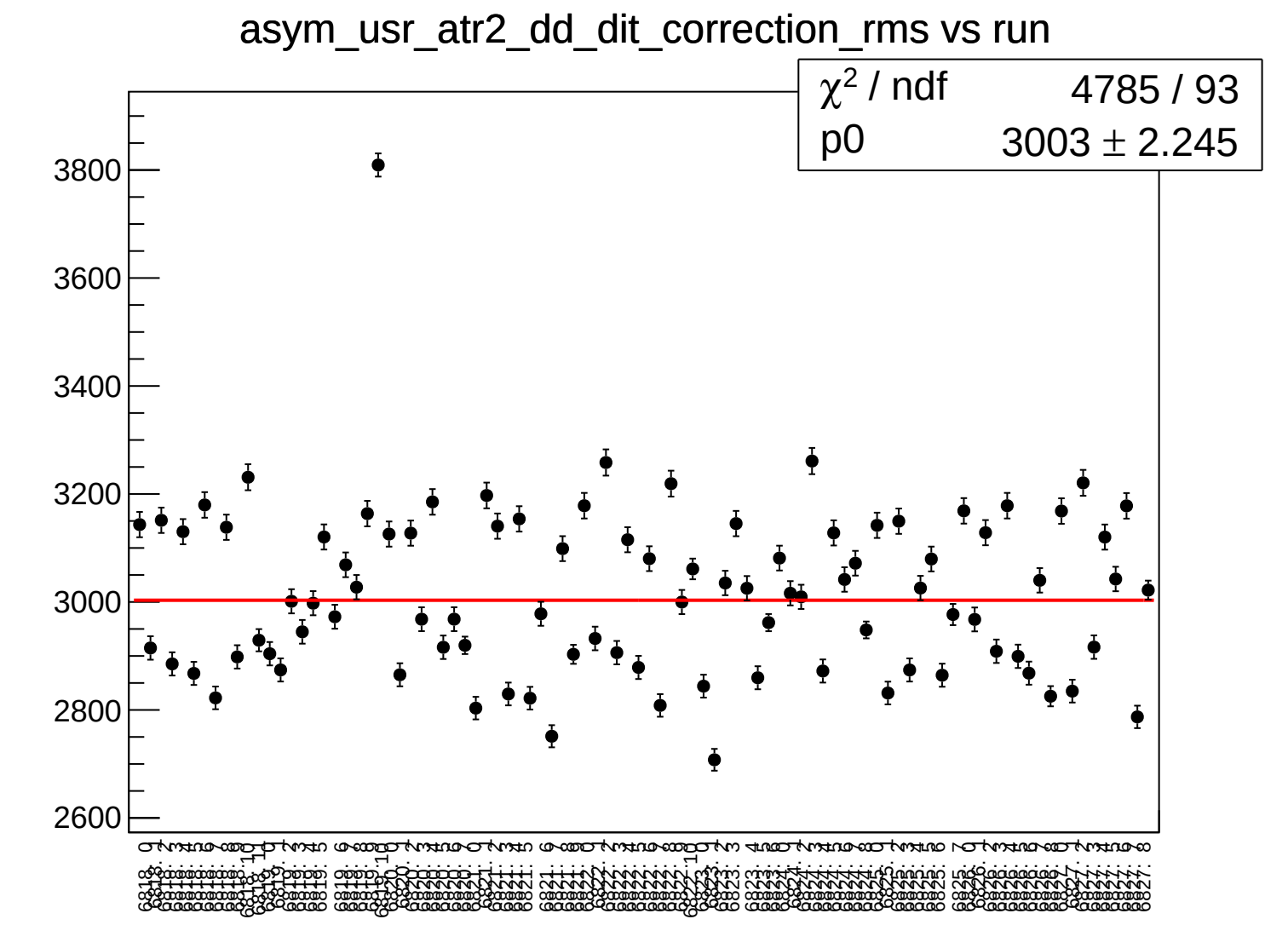

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 114.1 / 93
p0 187.6 ± 1148
pull
Entries 94
Mean −196.4
Std Dev 0

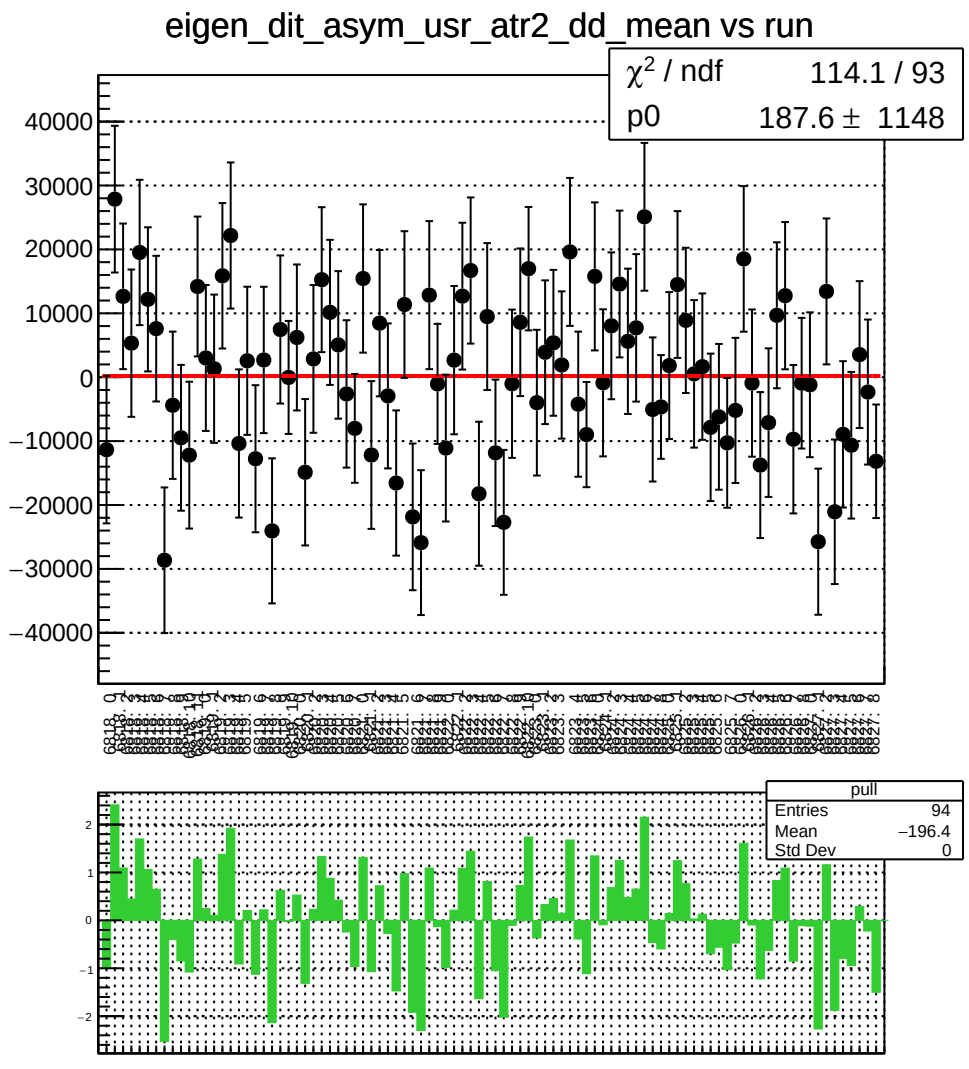

pull1D
Entries 94
Mean 0.01471
Std Dev 1.102

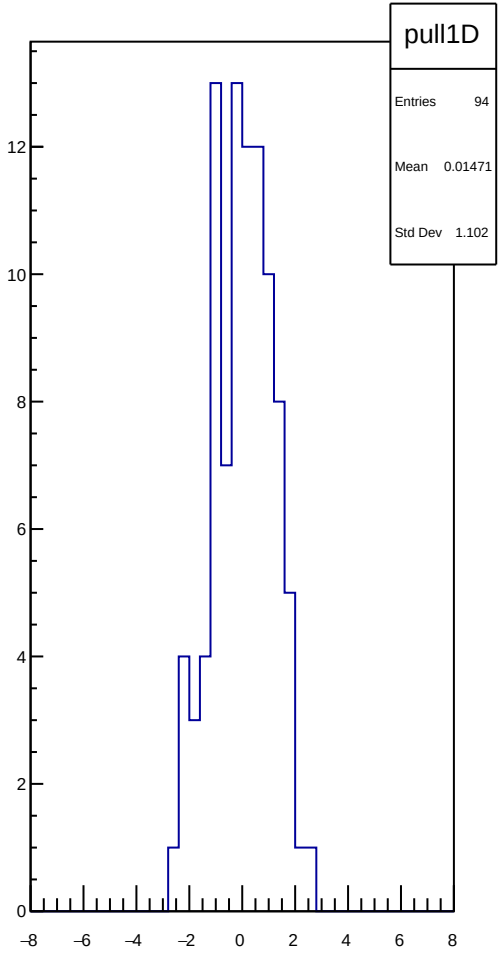

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.9 / 93
p0 1088 ± 0.8119
1120
1110
1100
1090
1080
1070
1060


asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 −1423 ± 3174
100
50
0
−50
−100
pull
Entries 94
Mean 920.1
Std Dev 0
3
2
1
0
−1
−2

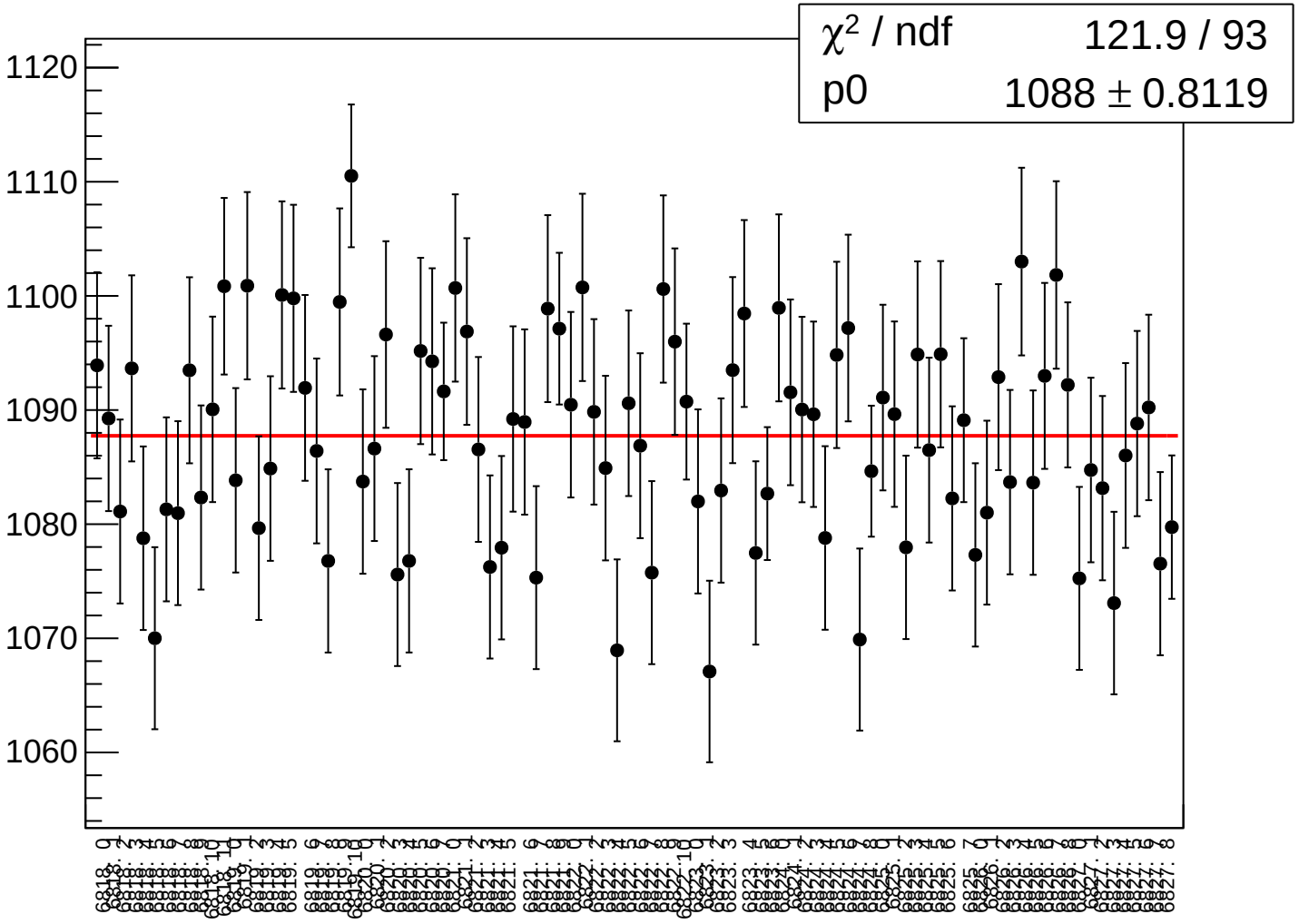

pull1D
Entries 94
Mean −0.001123
Std Dev 0.9607
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

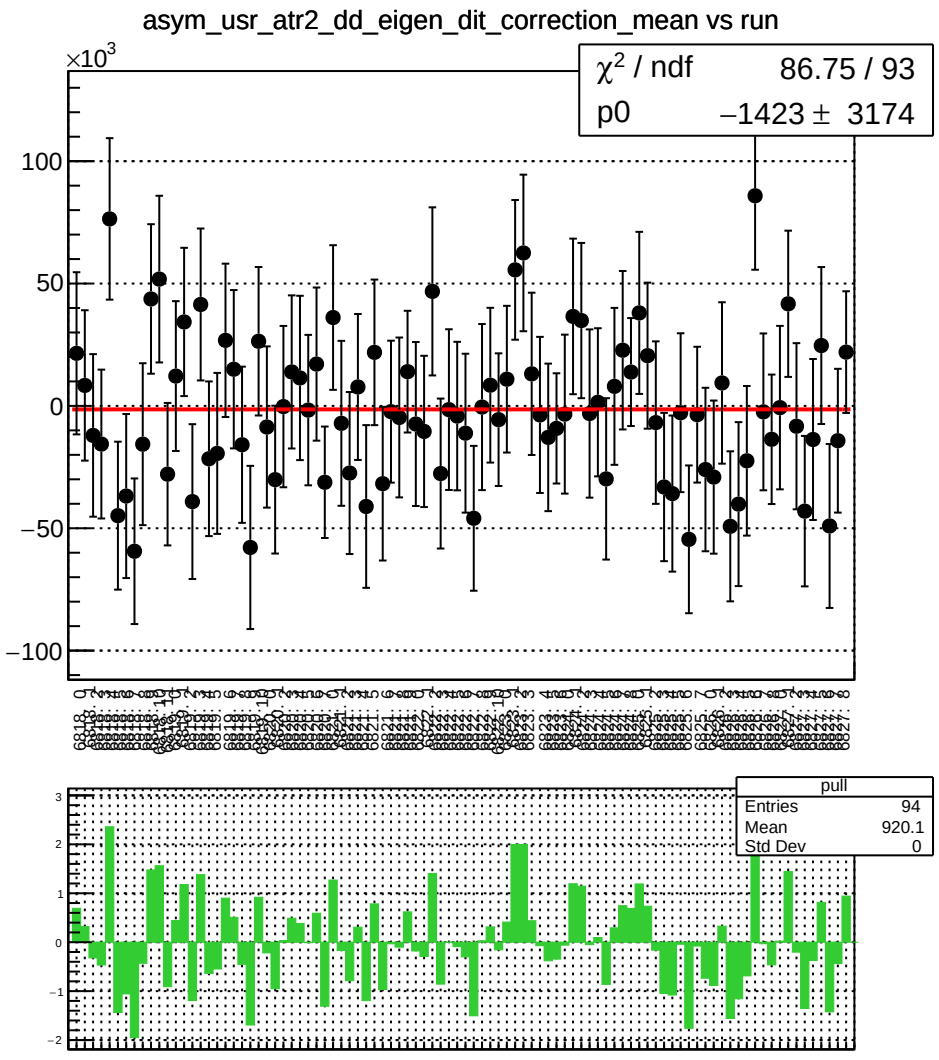

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4785 / 93
p0 3003 ± 2.245
3800
3600
3400
3200
3000
2800
2600

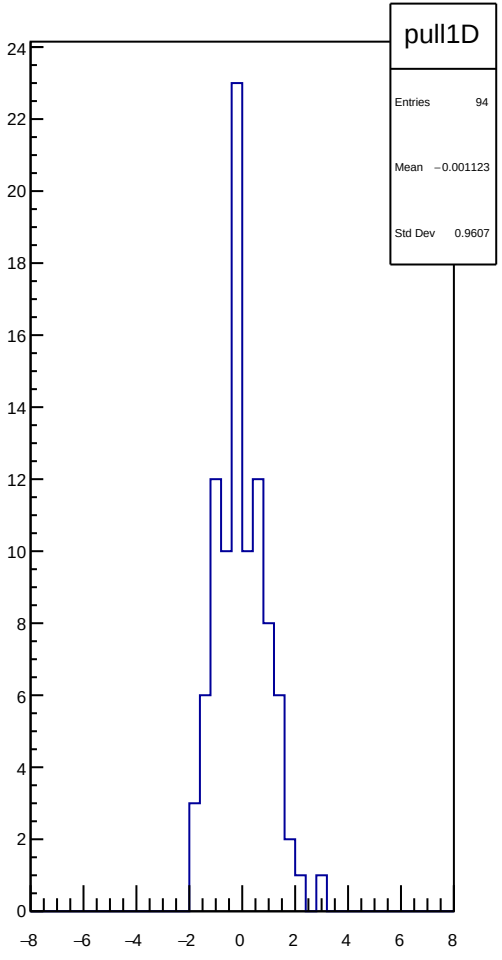

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 114.1 / 93
p0 187.6 ± 1148
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −196.4
Std Dev 0
2
1
0
−1
−2

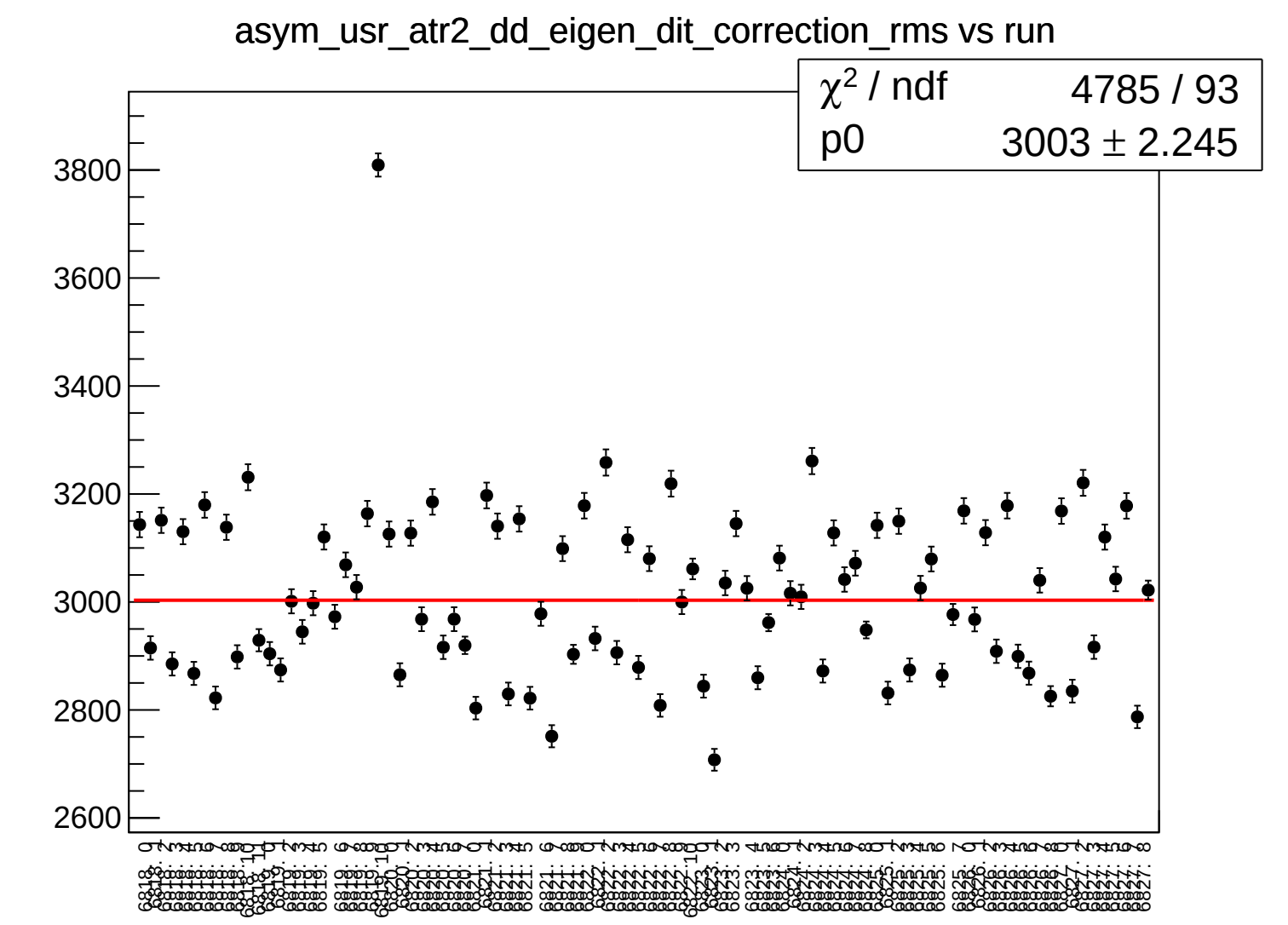

pull1D
Entries 94
Mean 0.01471
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

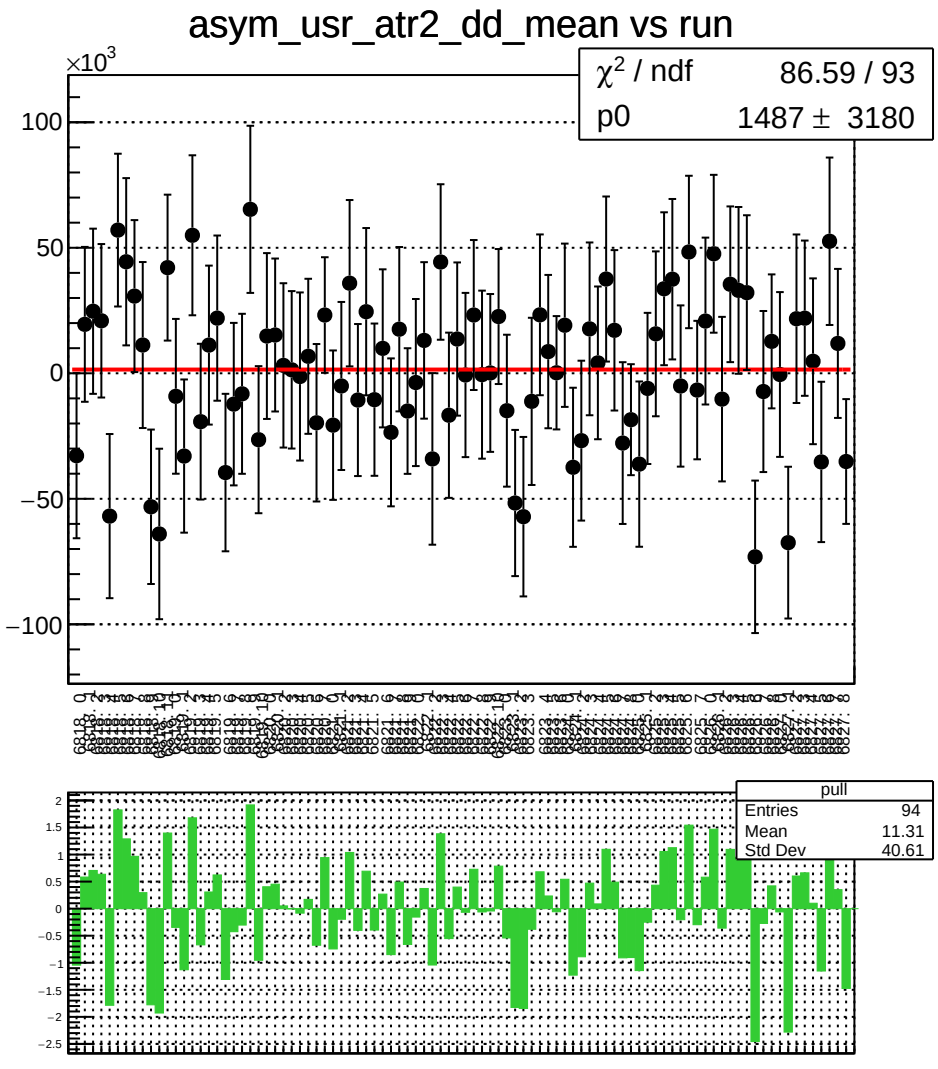
eigen_dit_asym_usr_atr2_dd_rms vs run

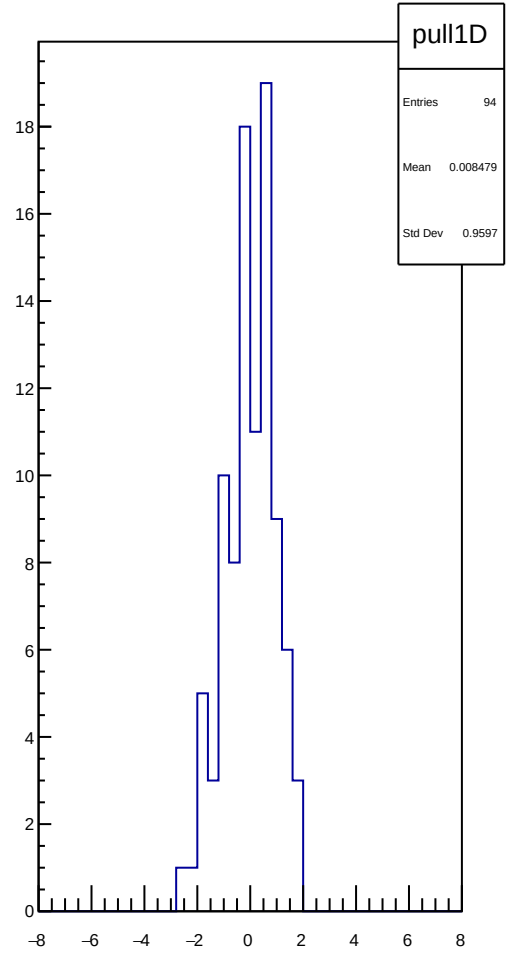


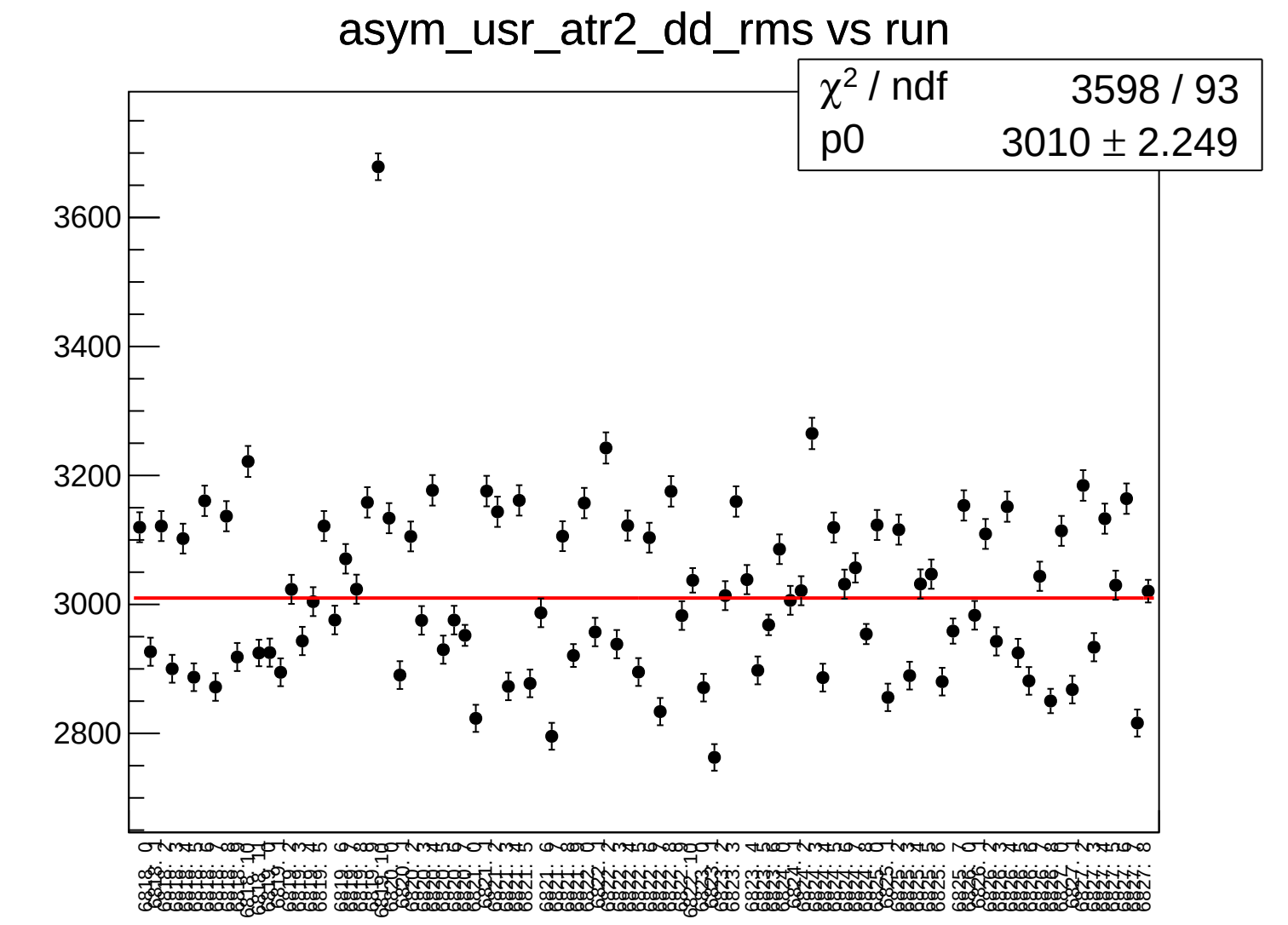

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.75 / 93
p0 −1423 ± 3174
100
50
0
−50
−100
pull
Entries 94
Mean 920.1
Std Dev 0
3
2
1
0
−1
−2

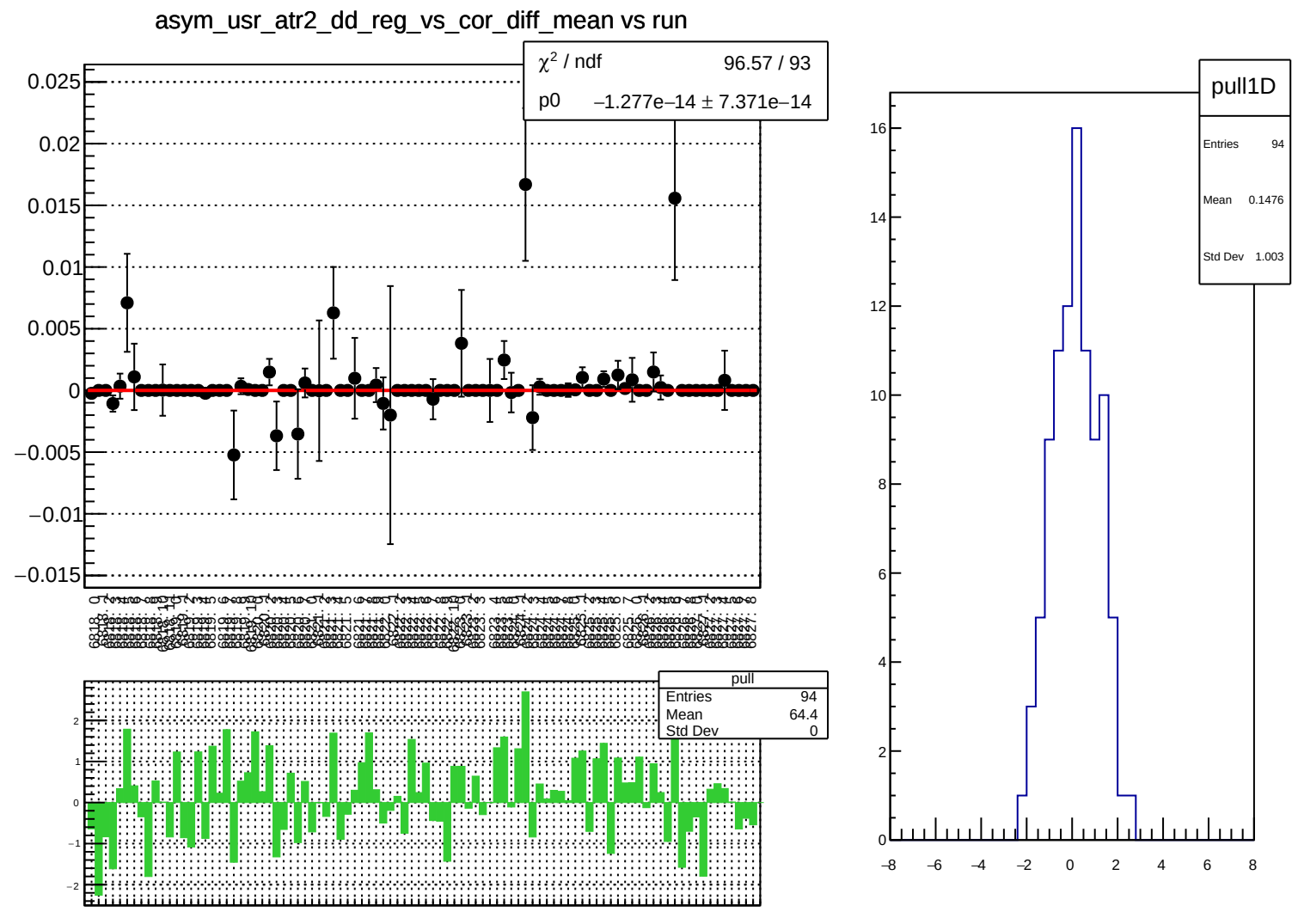

pull1D
Entries 94
Mean −0.001123
Std Dev 0.9607
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

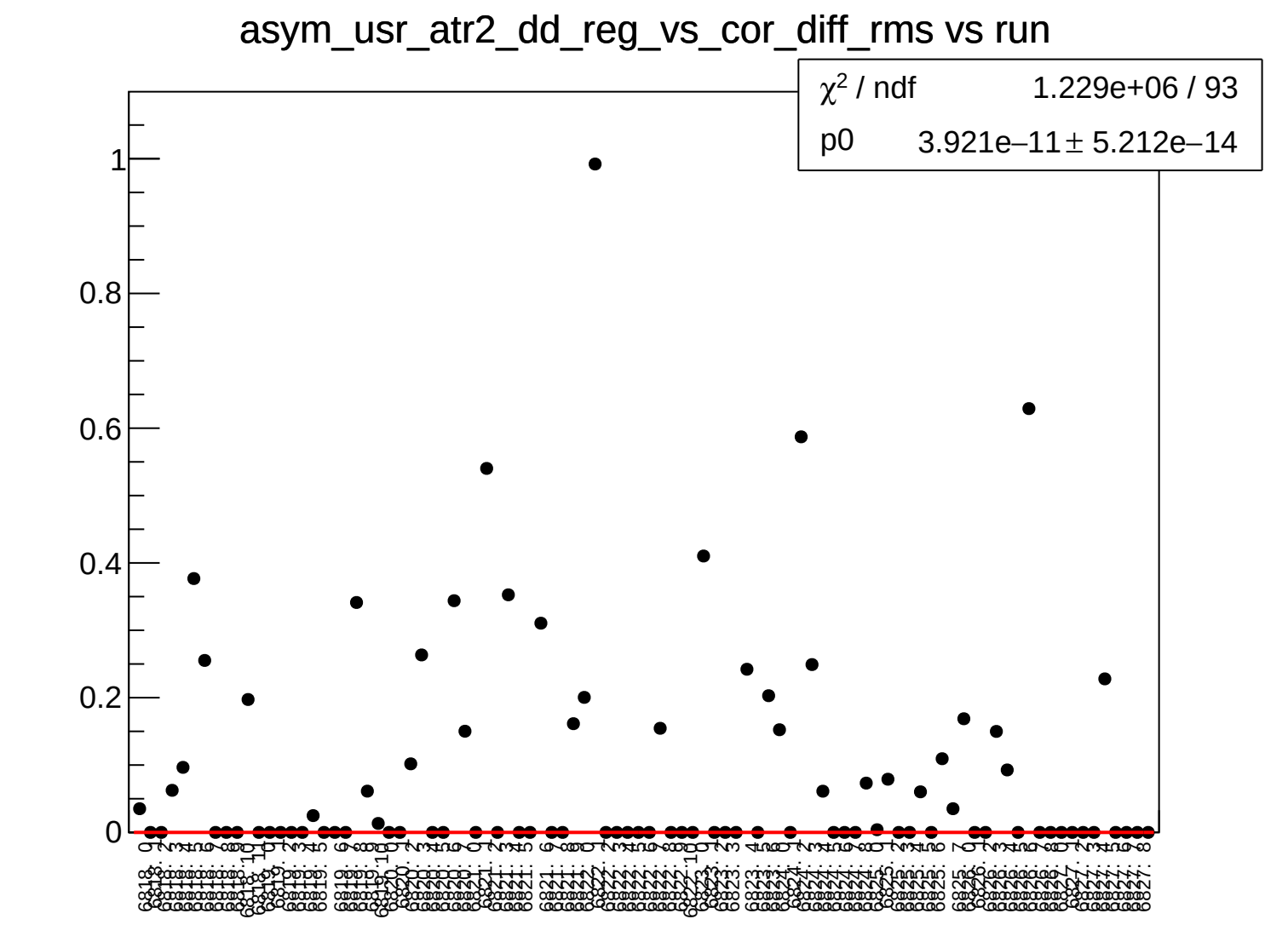

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4785 / 93
p0 3003 ± 2.245
3800
3600
3400
3200
3000
2800
2600

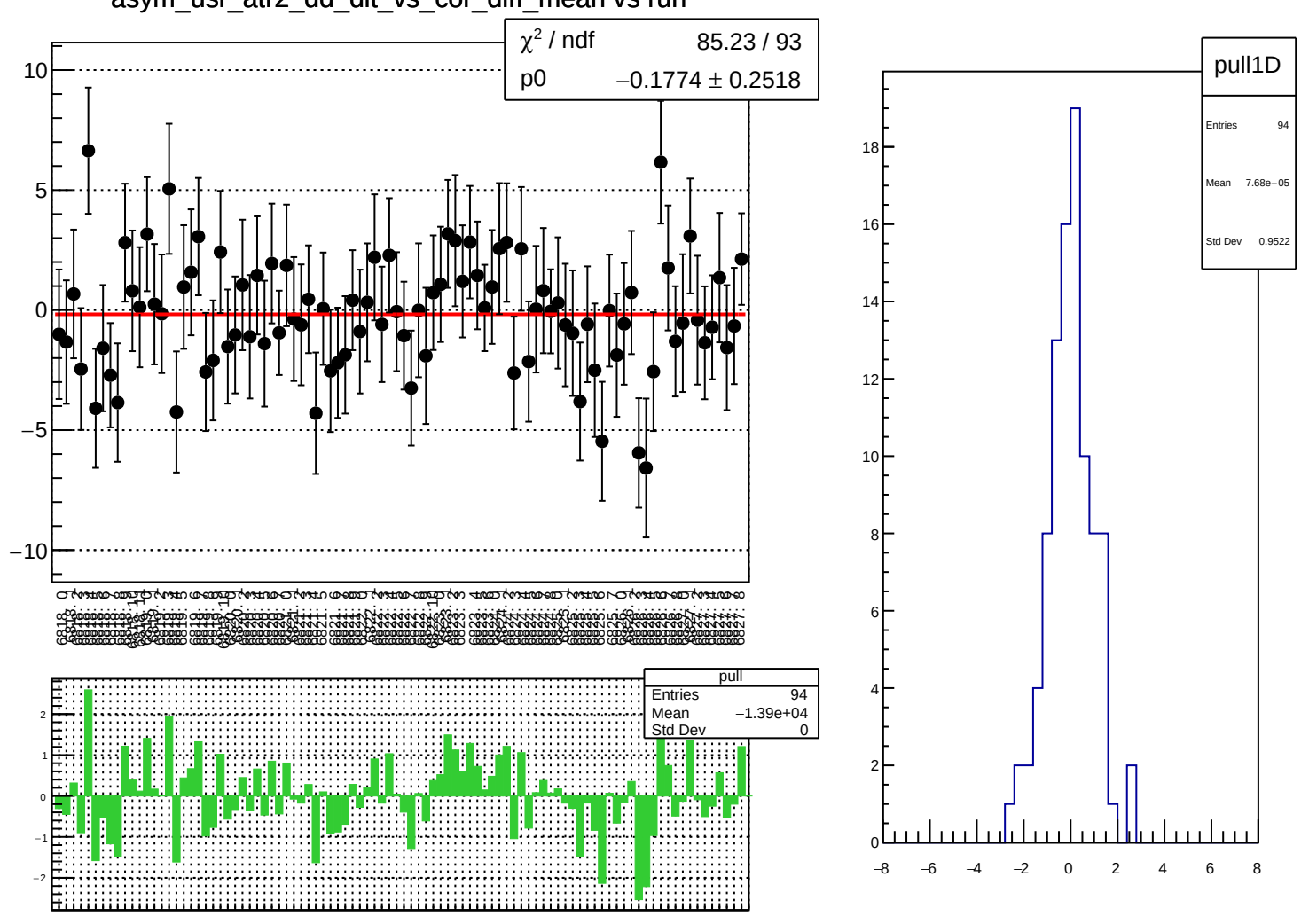

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 86.59 / 93
p0 1487 ± 3180
100
50
0
−50
−100
pull
Entries 94
Mean 11.31
Std Dev 40.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

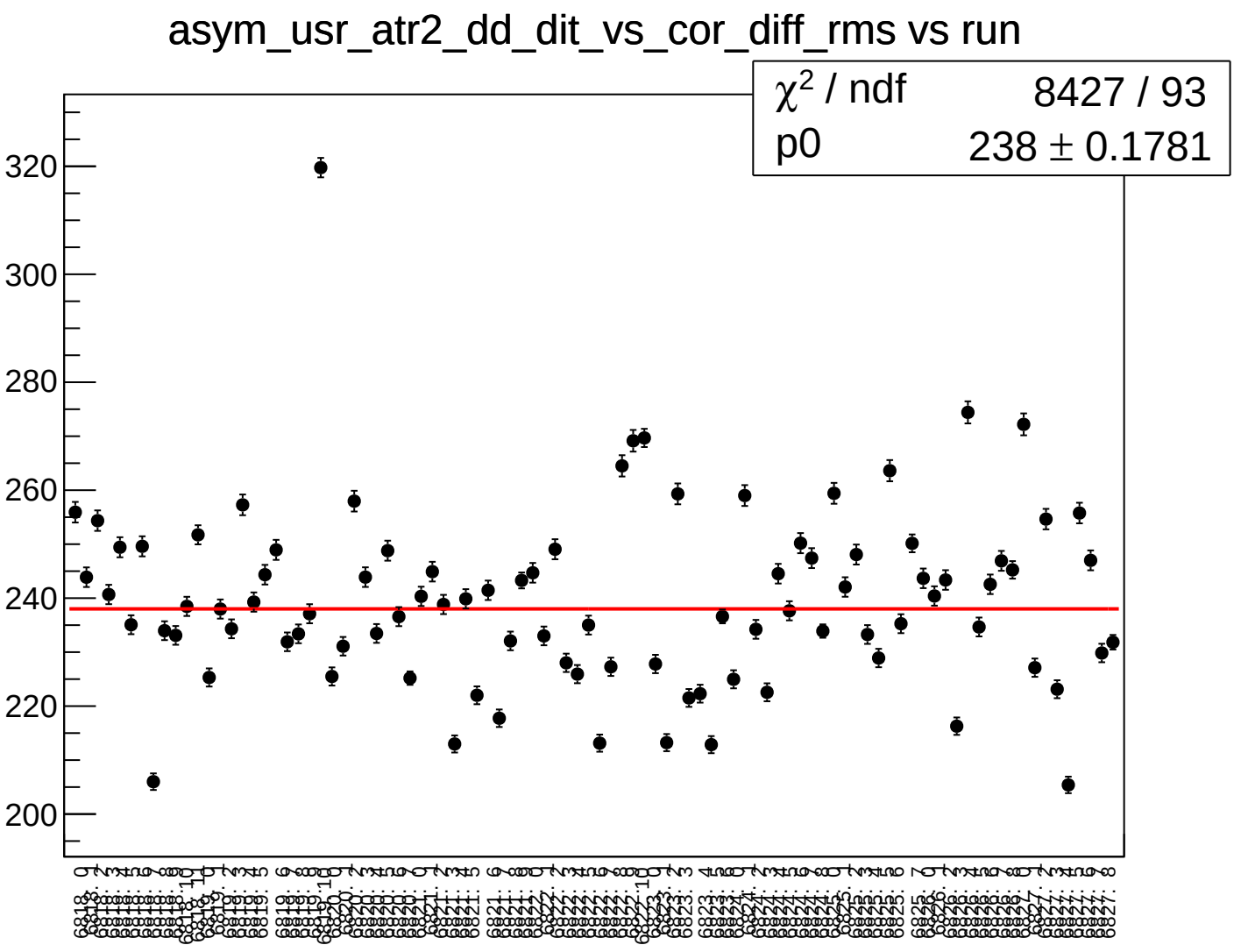

pull1D
Entries 94
Mean 0.008479
Std Dev 0.9597
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

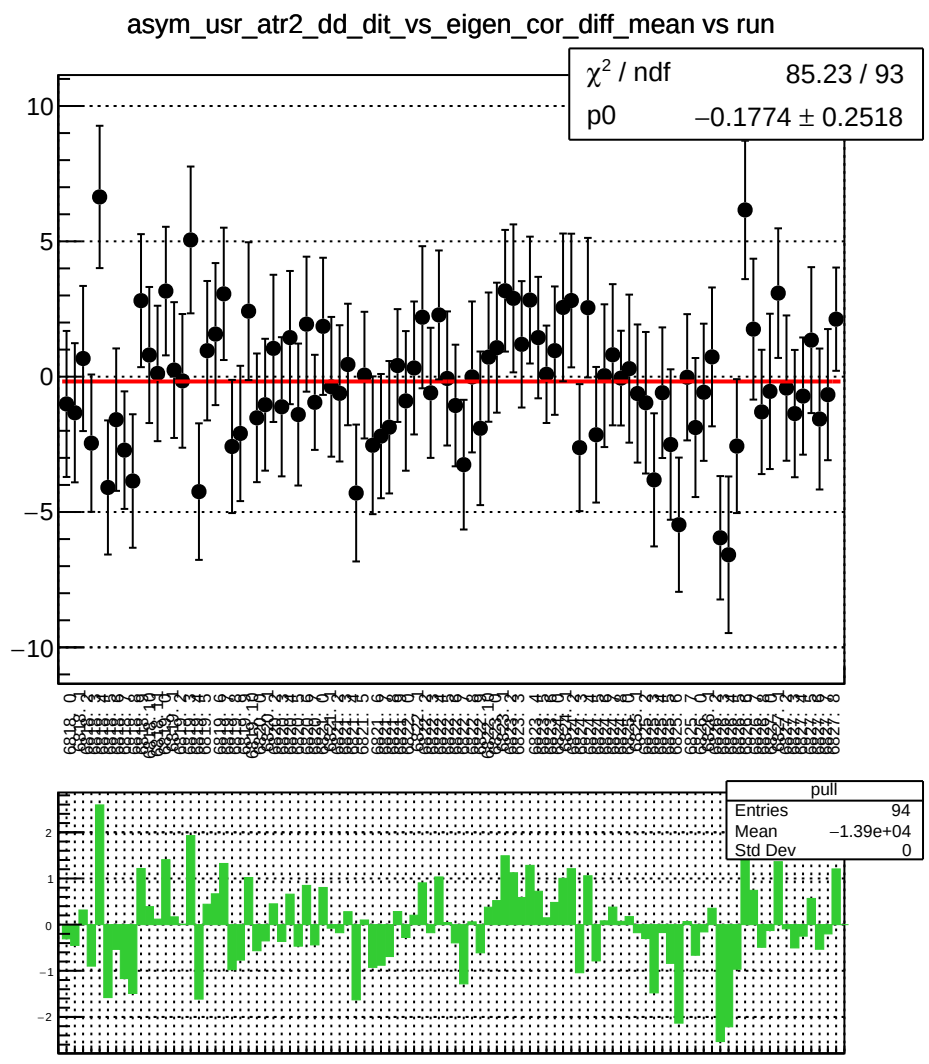

asym_usr_atr2_dd_rms vs run
χ² / ndf 3598 / 93
p0 3010 ± 2.249
3600
3400
3200
3000
2800

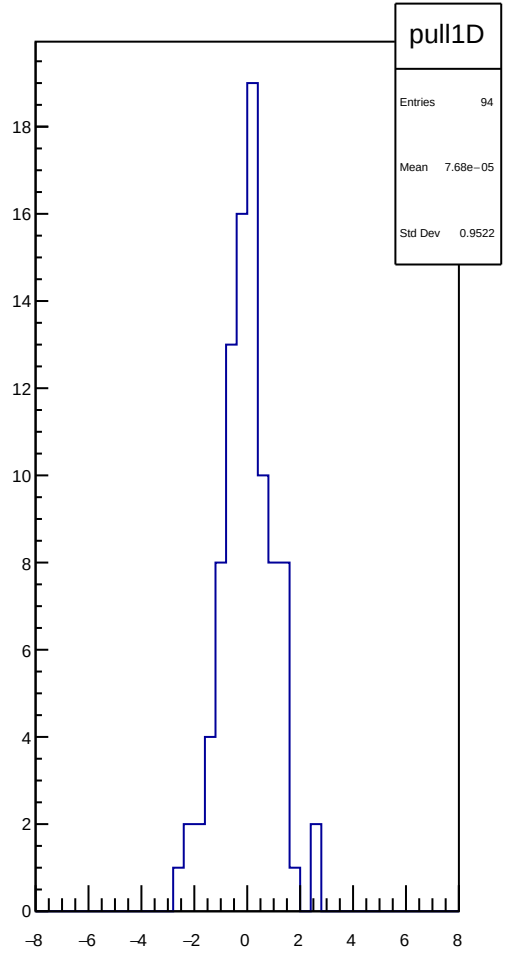

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.57 / 93
p0 −1.277e−14 ± 7.371e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean 64.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1476
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

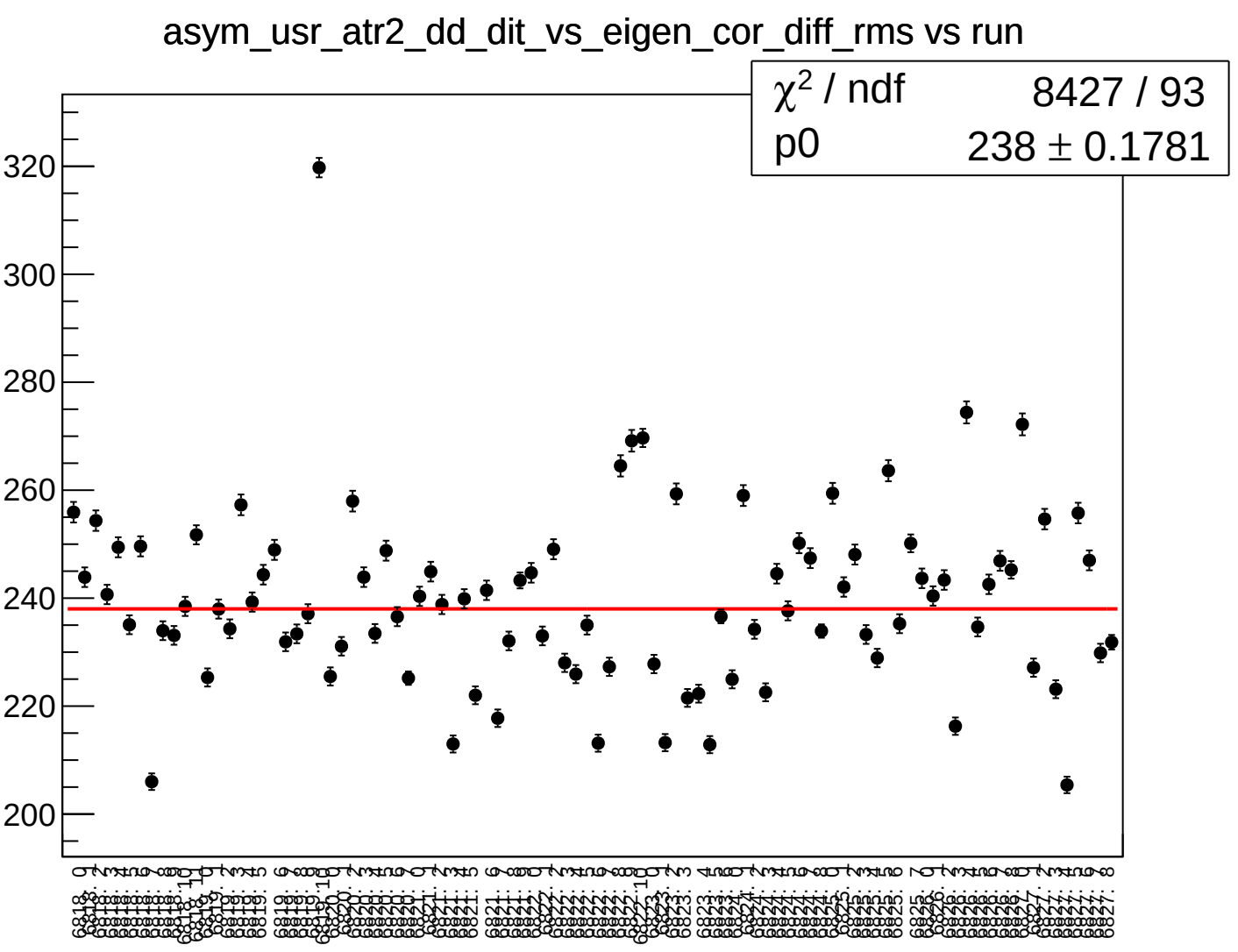

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.229e+06 / 93
p0 3.921e−11 ± 5.212e−14
1
0.8
0.6
0.4
0.2
0

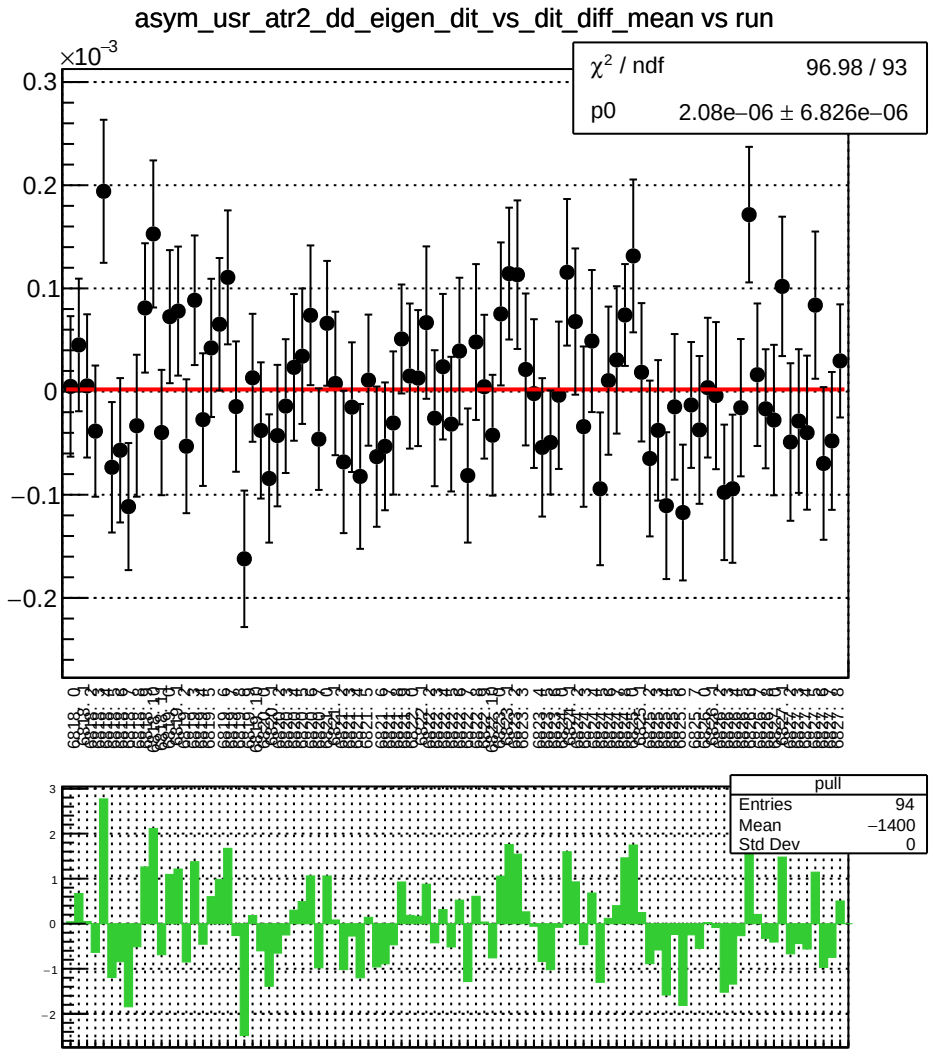

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 93
p0 −0.1774 ± 0.2518
10
5
0
−5
−10
pull
Entries 94
Mean −1.39e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 7.68e−05
Std Dev 0.9522
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

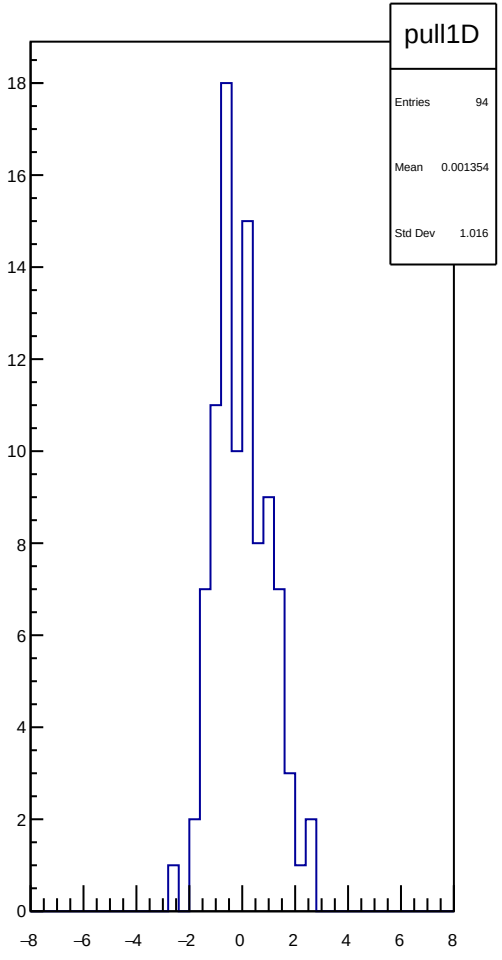

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8427 / 93
p0 238 ± 0.1781
320
300
280
260
240
220
200

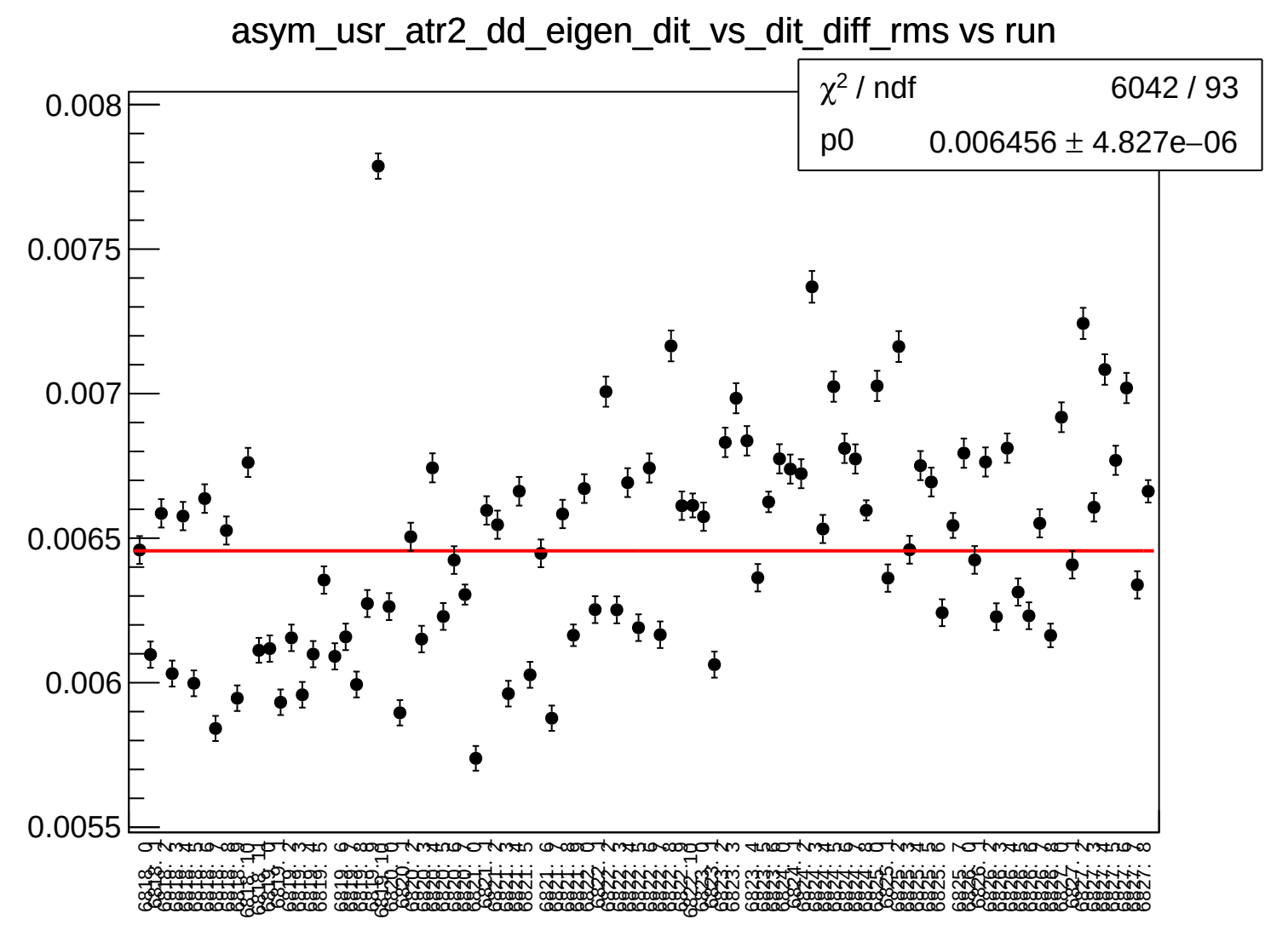

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 93
p0 −0.1774 ± 0.2518
pull
Entries 94
Mean −1.39e+04
Std Dev 0

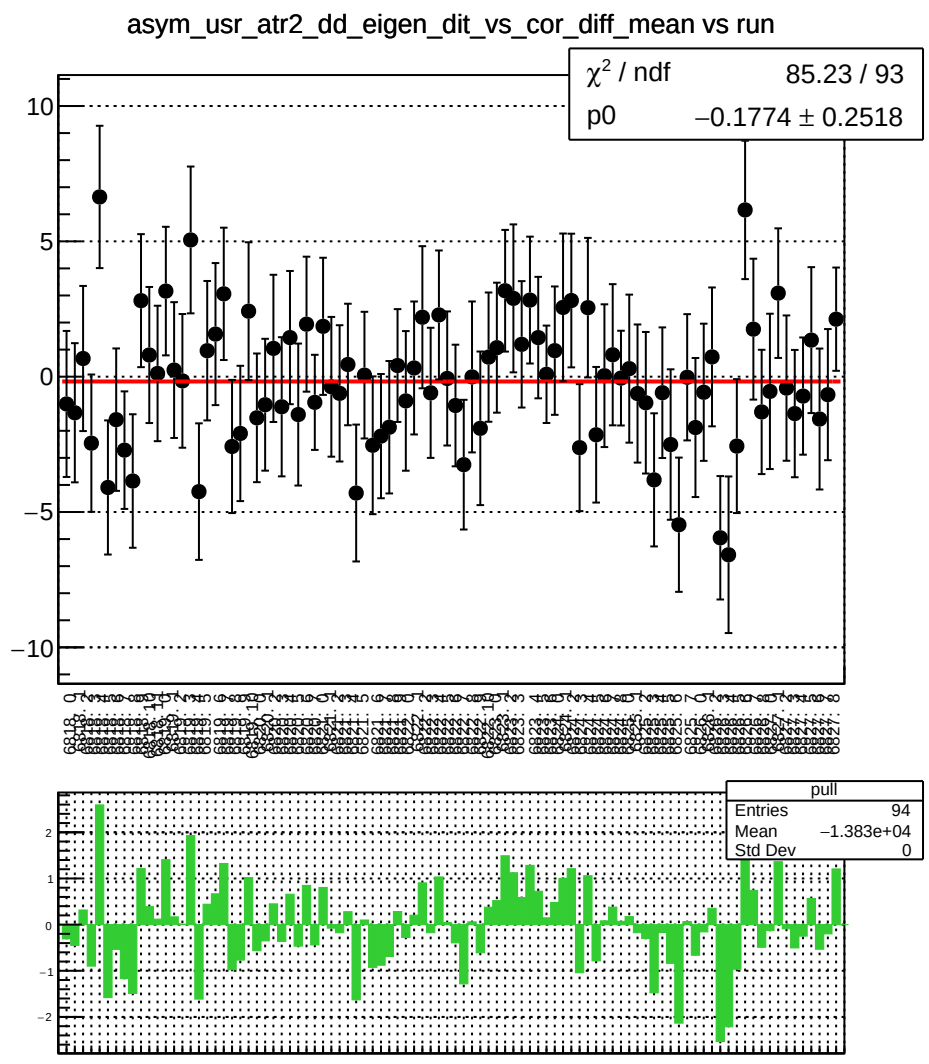

pull1D
Entries 94
Mean 7.68e−05
Std Dev 0.9522

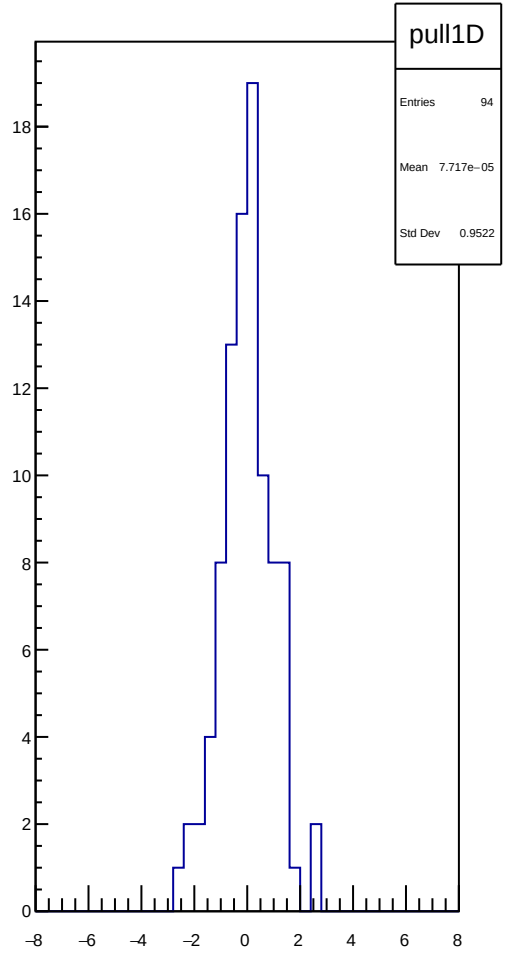

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8427 / 93
p0 238 ± 0.1781
320
300
280
260
240
220
200

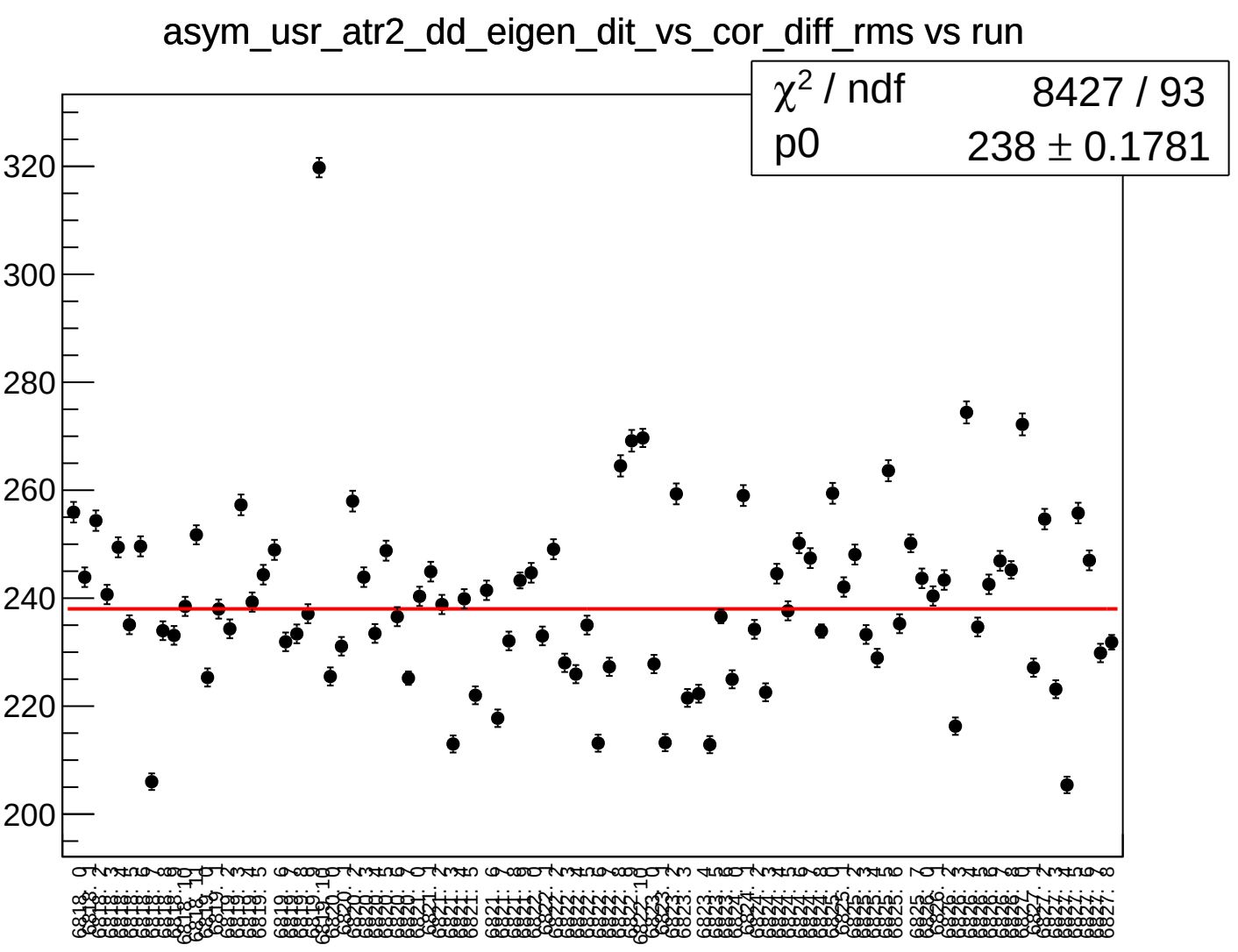

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.98 / 93
p0 2.08e−06 ± 6.826e−06
pull
Entries 94
Mean −1400
Std Dev 0

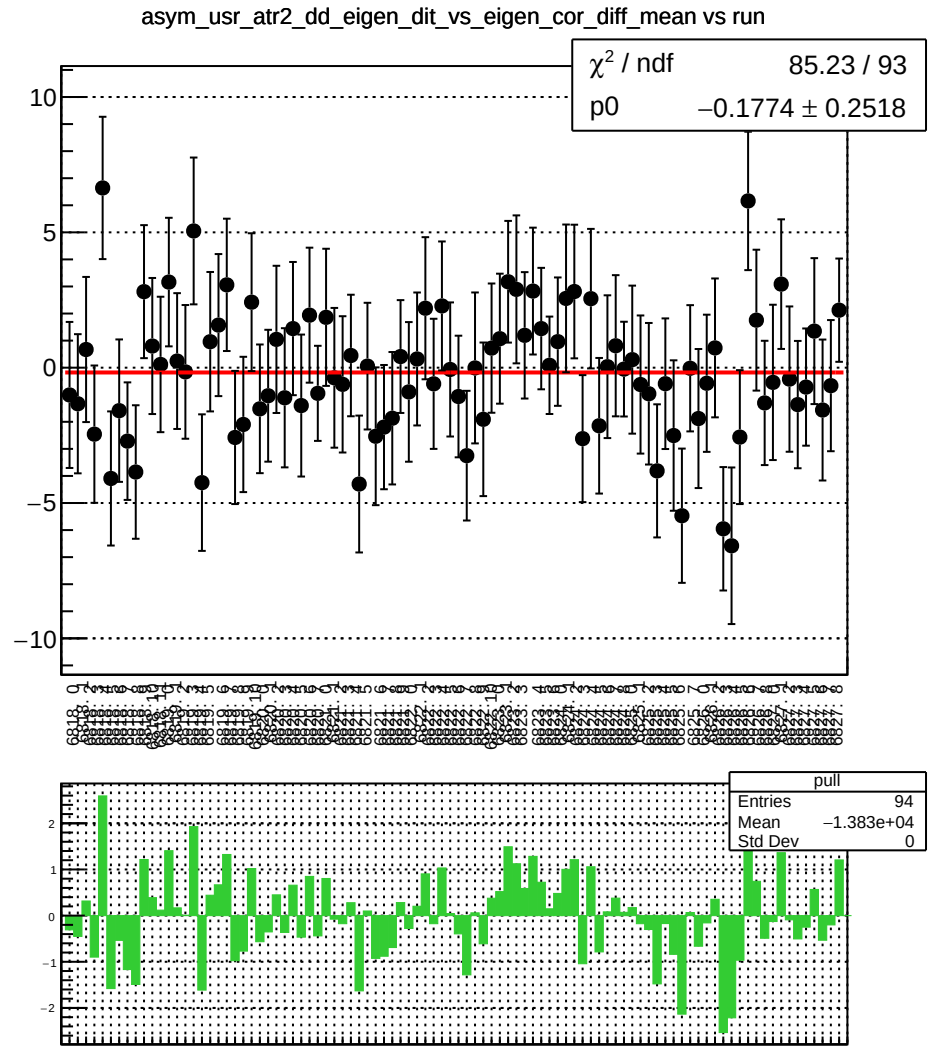

pull1D
Entries 94
Mean 0.001354
Std Dev 1.016

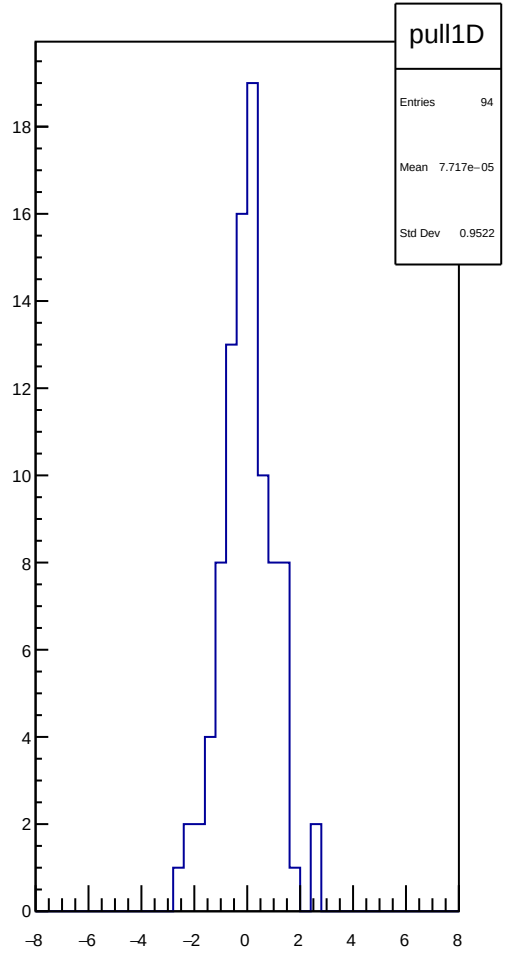

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6042 / 93
p0 0.006456 ± 4.827e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

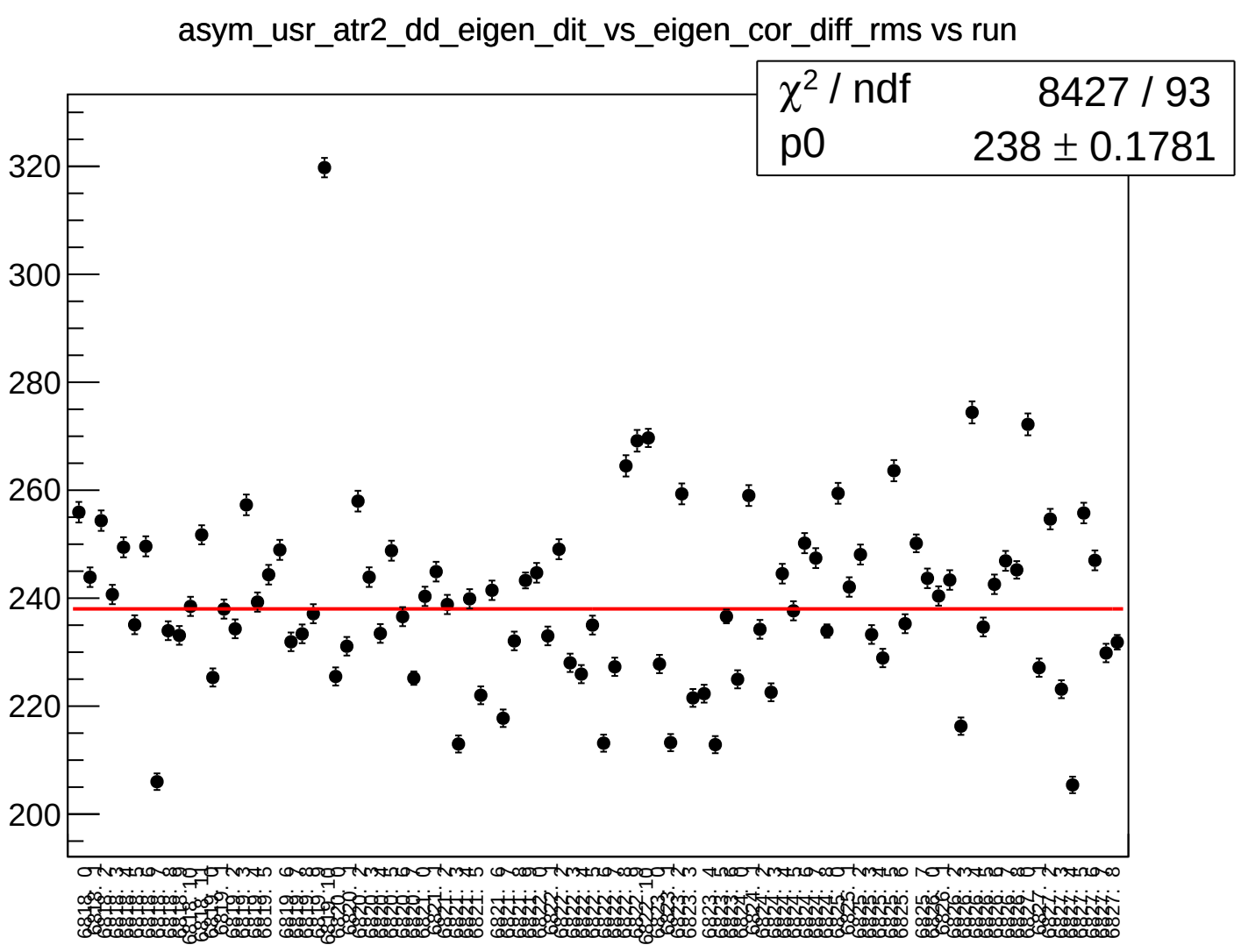

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.23 / 93
p0 −0.1774 ± 0.2518
pull
Entries 94
Mean −1.383e+04
Std Dev 0

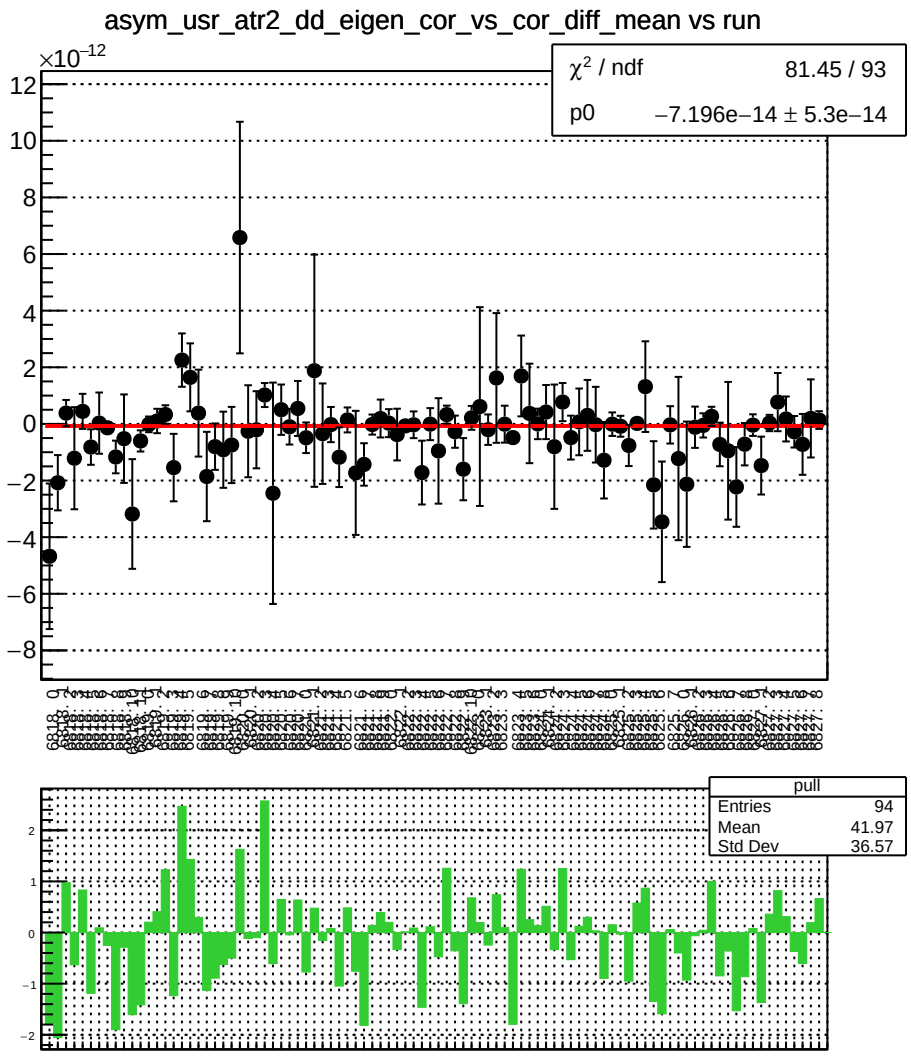

pull1D
Entries 94
Mean 7.717e−05
Std Dev 0.9522

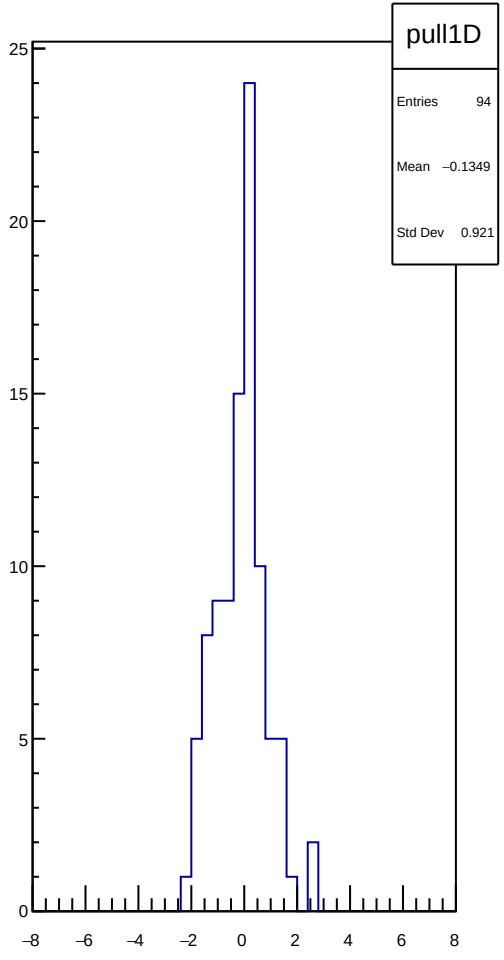

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8427 / 93
p0 238 ± 0.1781
320
300
280
260
240
220
200

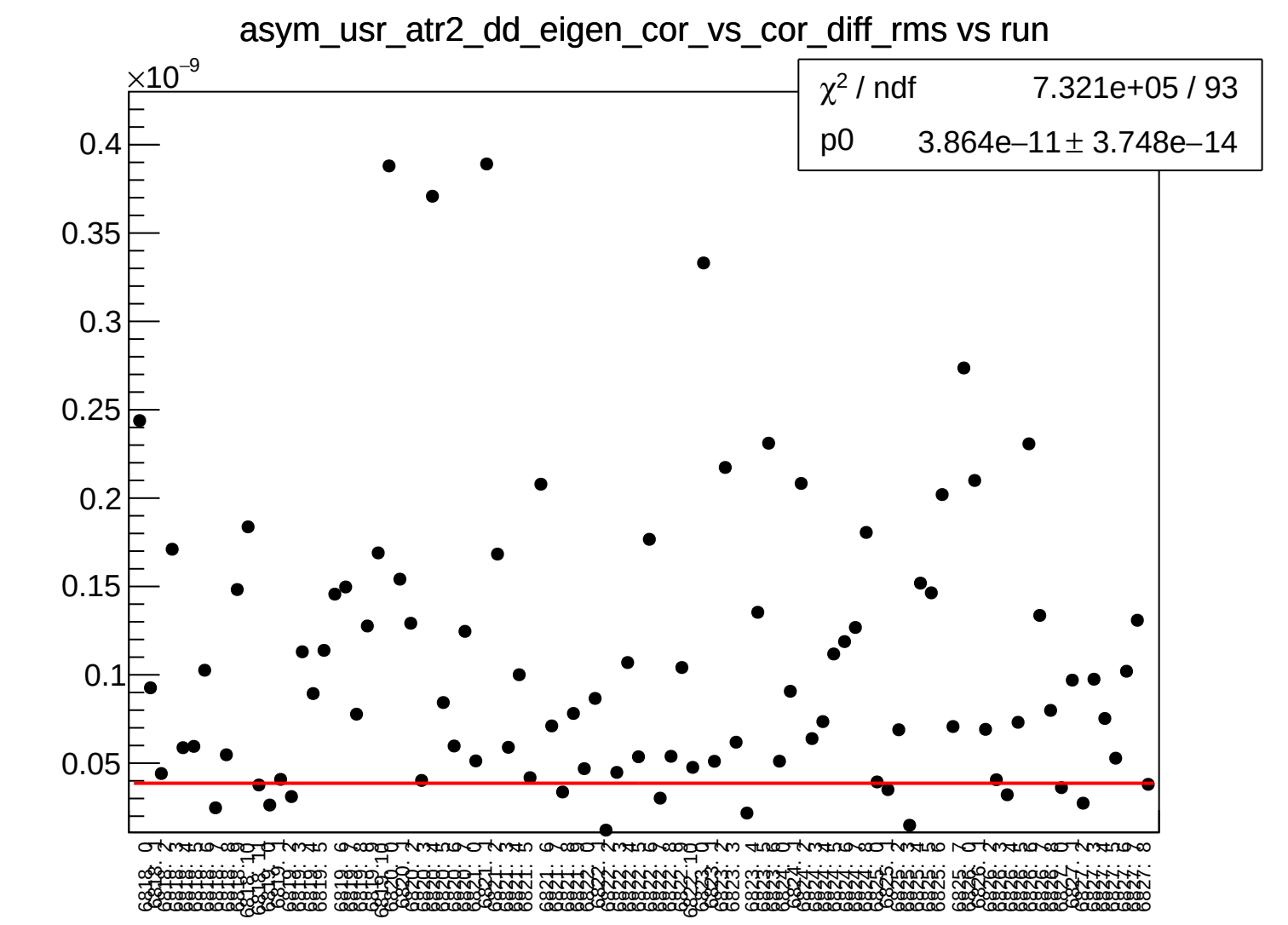

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.23 / 93
p0 −0.1774 ± 0.2518
pull
Entries 94
Mean −1.383e+04
Std Dev 0

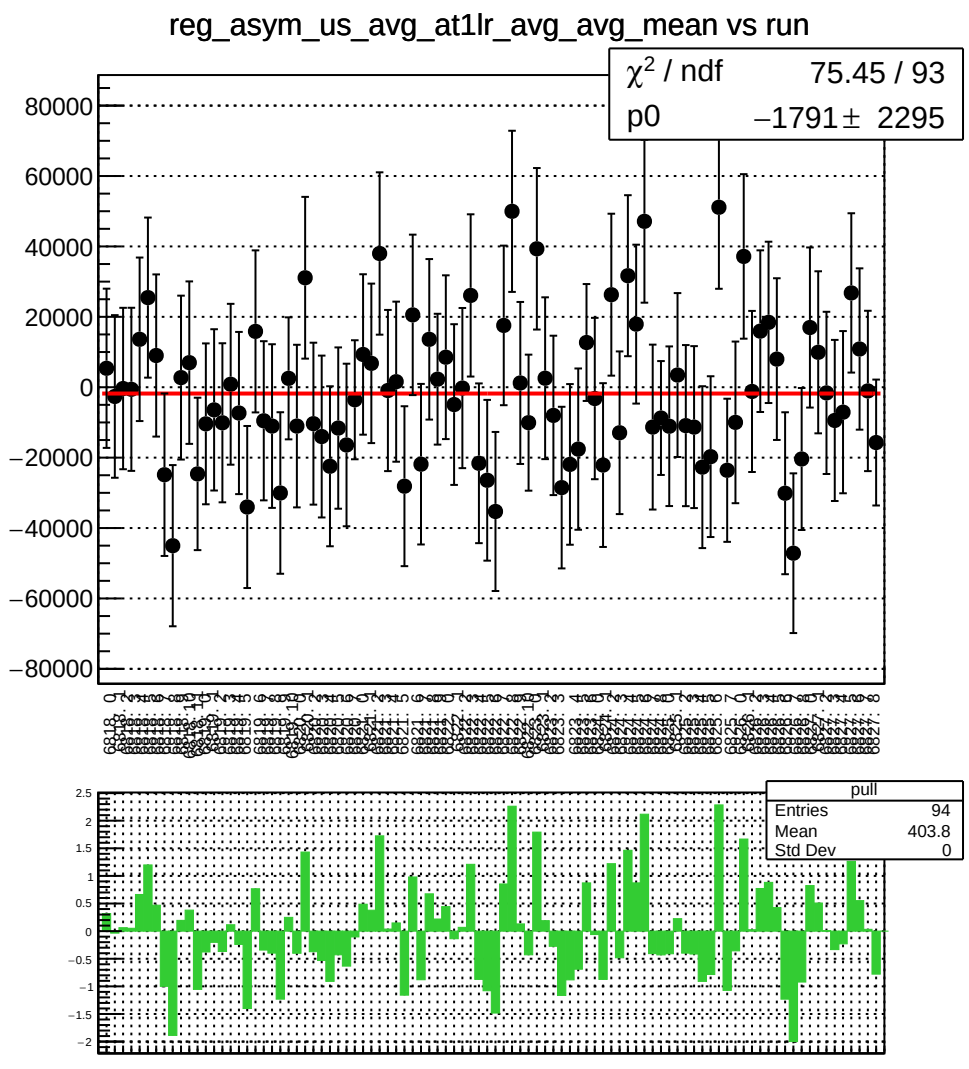

pull1D
Entries 94
Mean 7.717e−05
Std Dev 0.9522

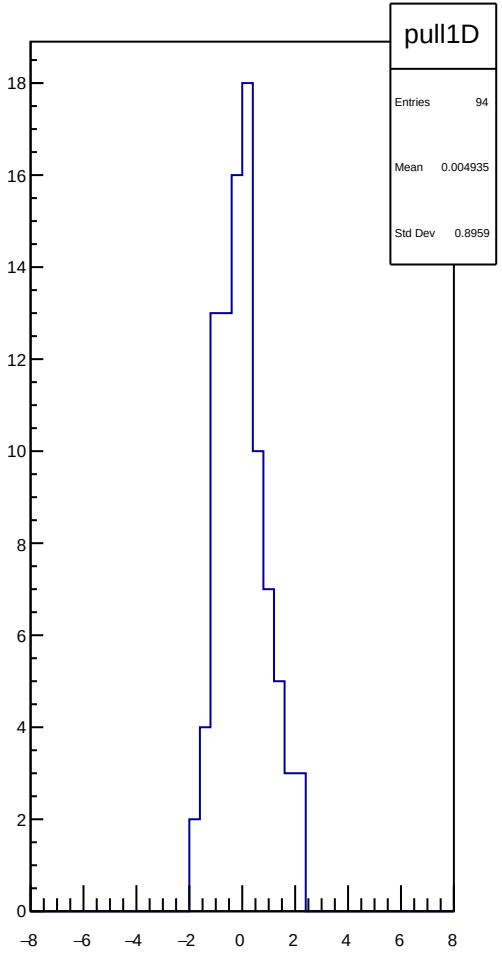

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8427 / 93
p0 238 ± 0.1781
320
300
280
260
240
220
200

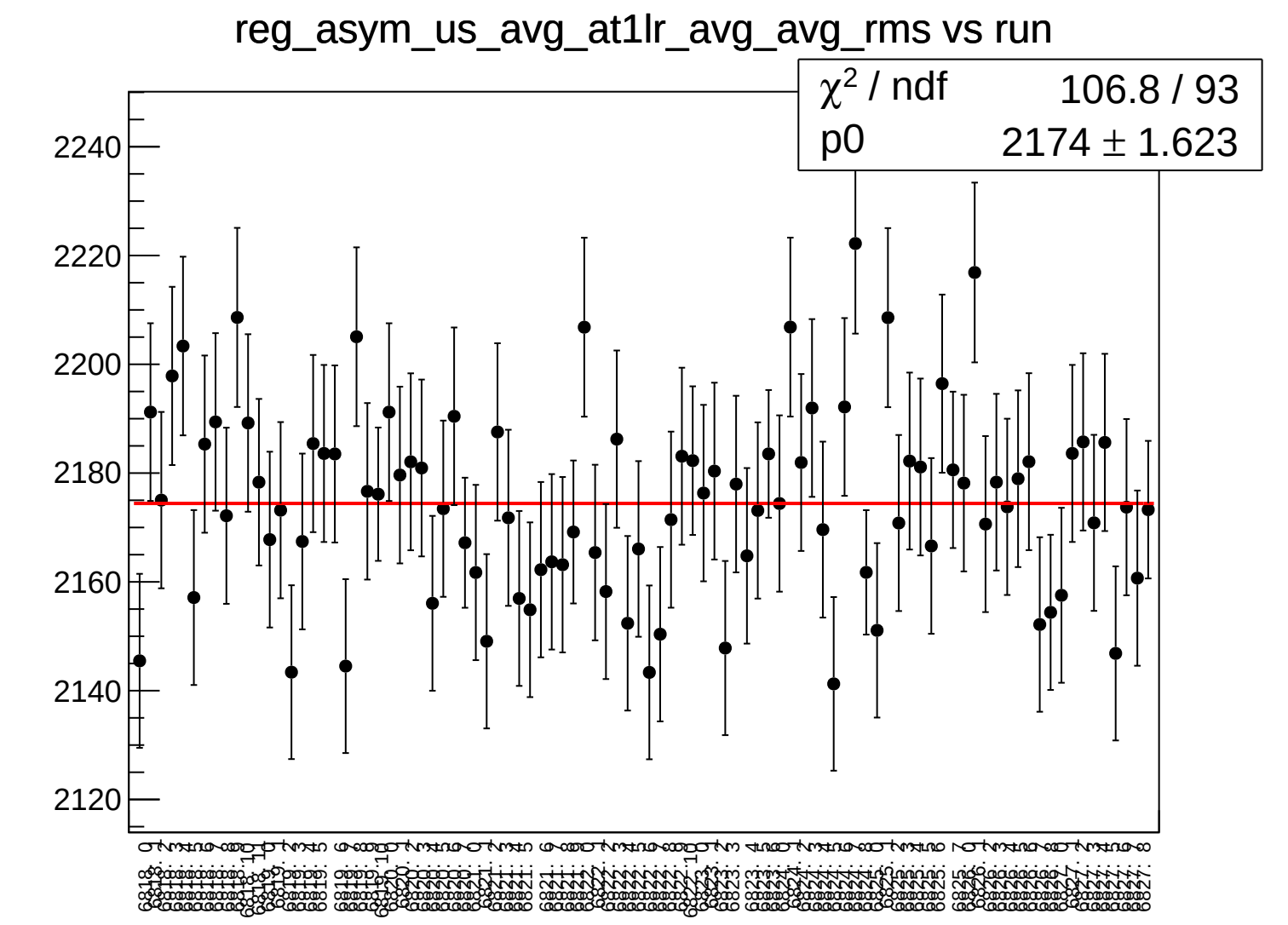

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.45 / 93
p0 −7.196e−14 ± 5.3e−14
pull
Entries 94
Mean 41.97
Std Dev 36.57

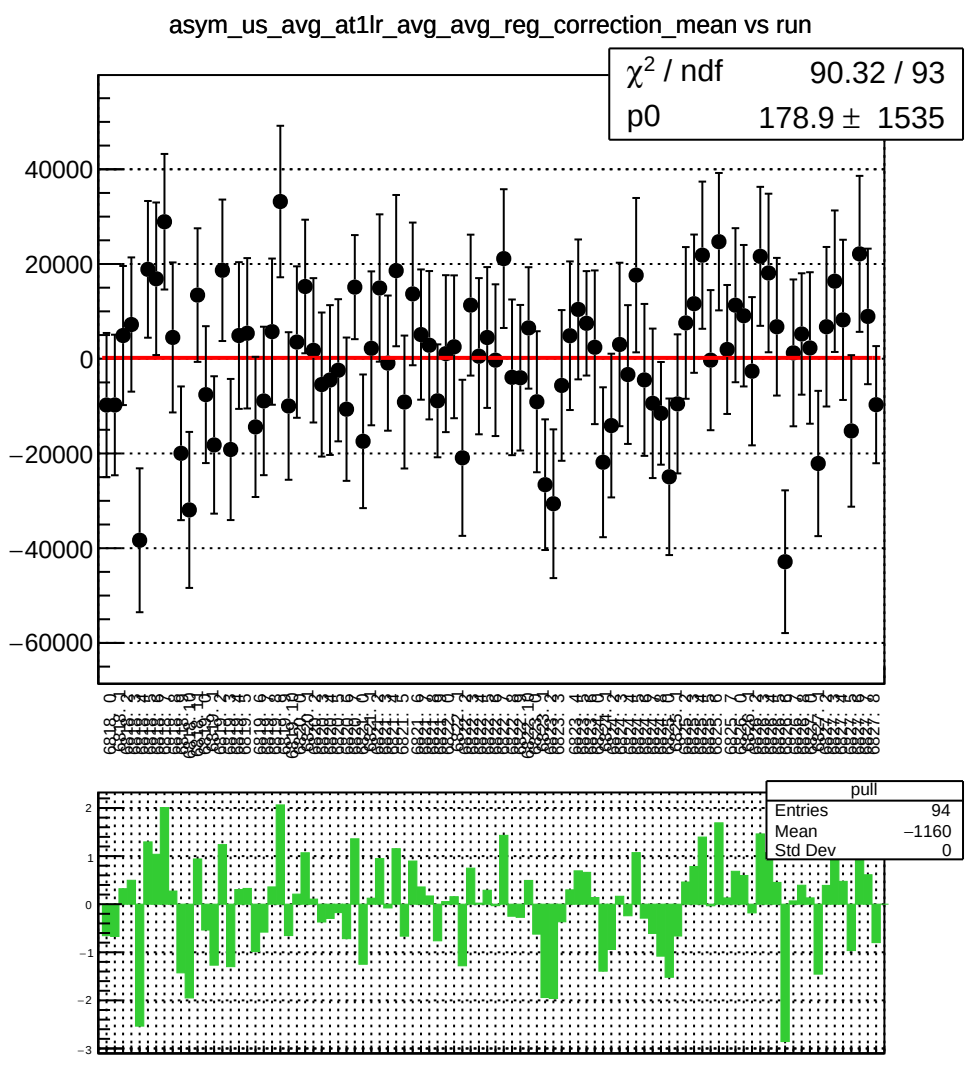

pull1D
Entries 94
Mean −0.1349
Std Dev 0.921

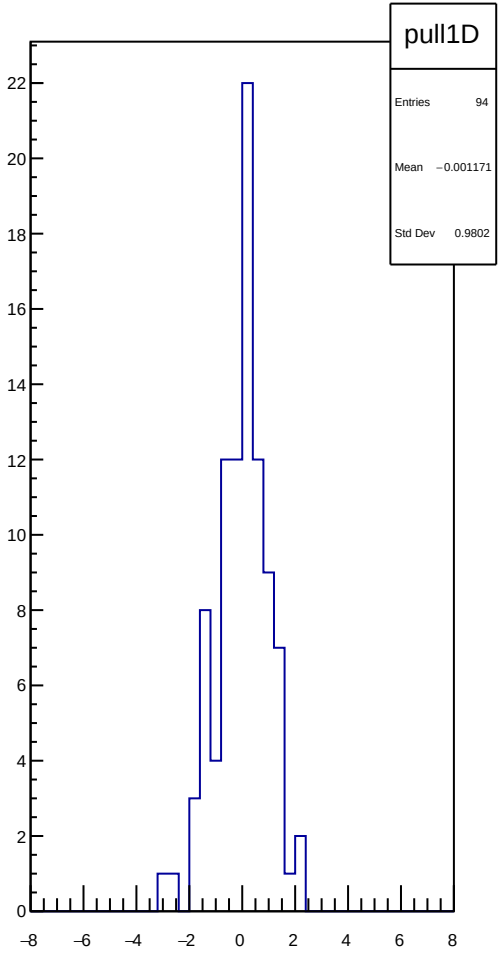

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.321e+05 / 93
p0 3.864e−11 ± 3.748e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

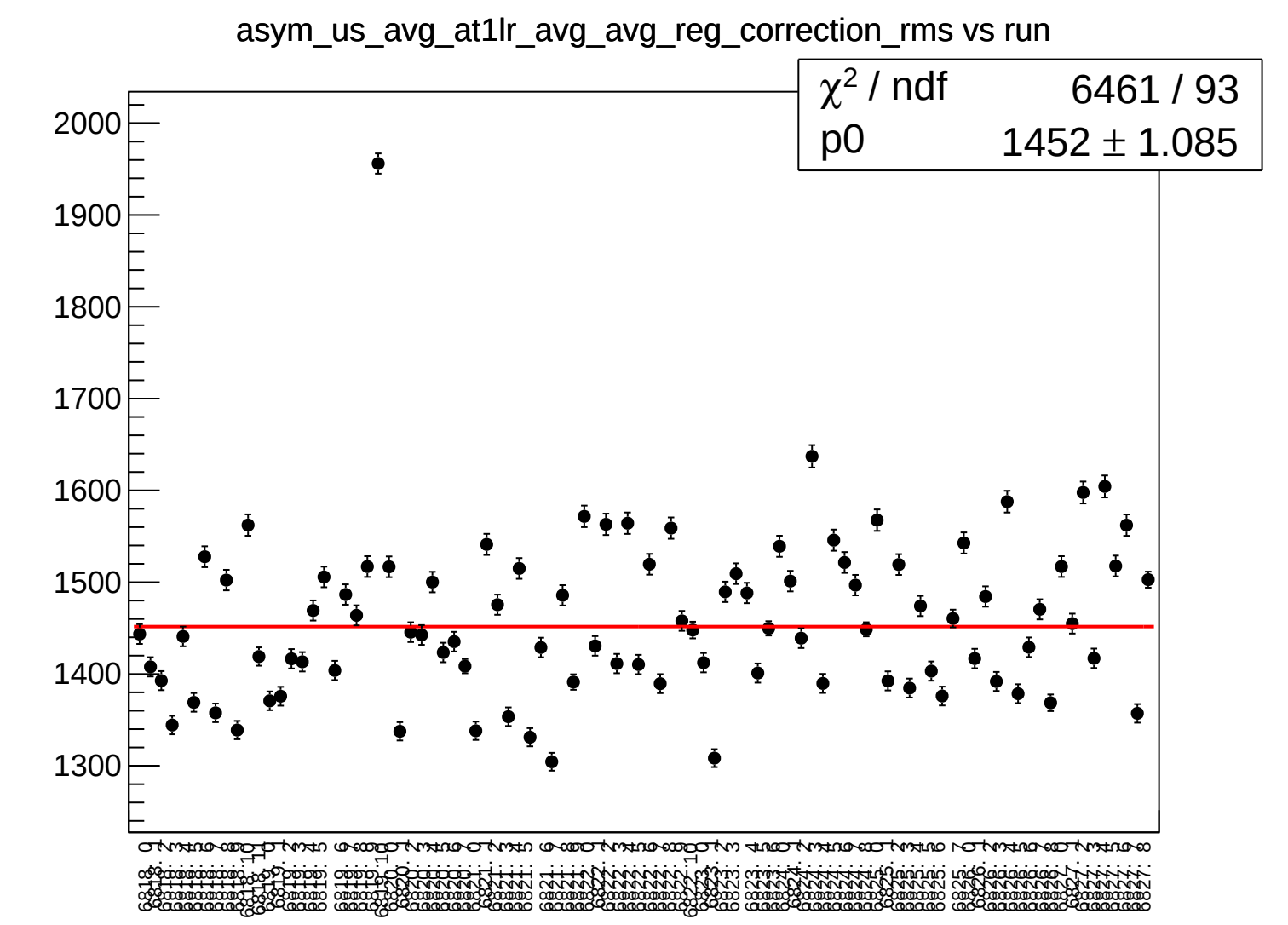

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 75.45 / 93
p0 −1791 ± 2295
pull
Entries 94
Mean 403.8
Std Dev 0

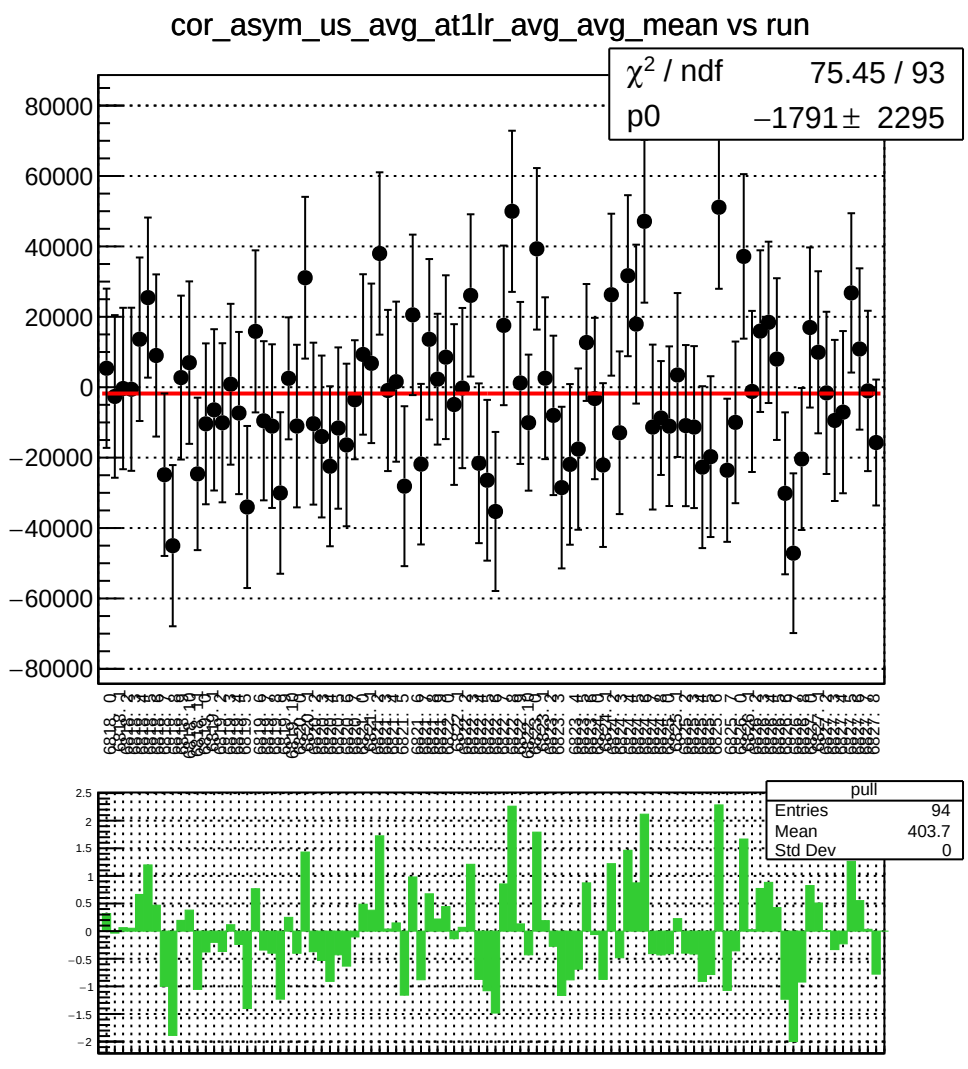

pull1D
Entries 94
Mean 0.004935
Std Dev 0.8959

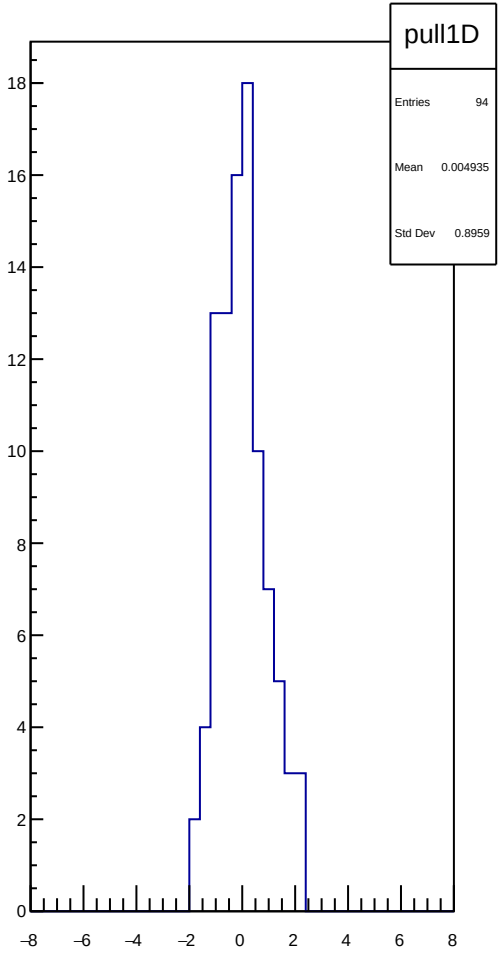

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 106.8 / 93
p0 2174 ± 1.623
2240
2220
2200
2180
2160
2140
2120

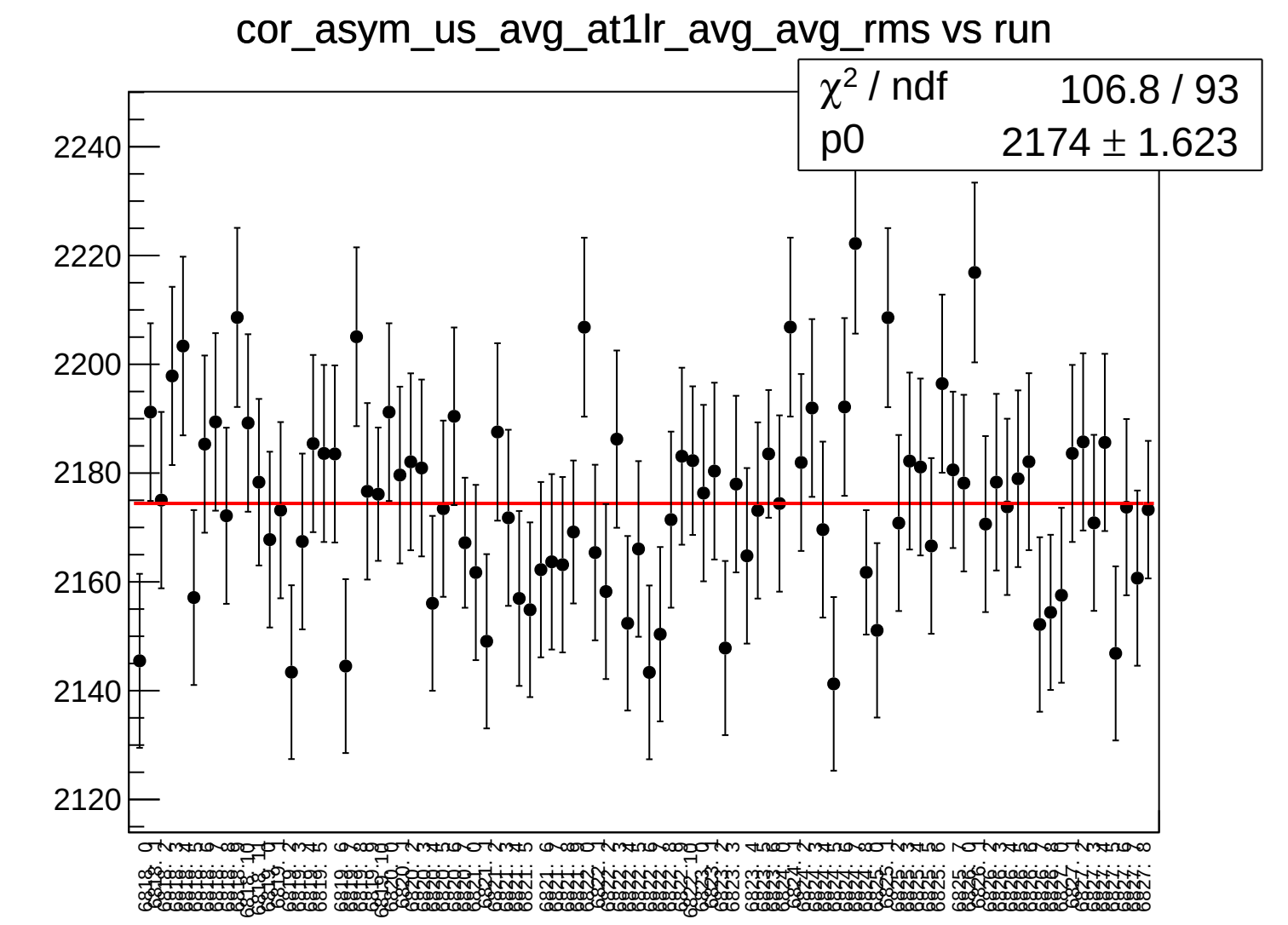

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 90.32 / 93
p0 178.9 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1160
Std Dev 0
2
1
0
−1
−2
−3

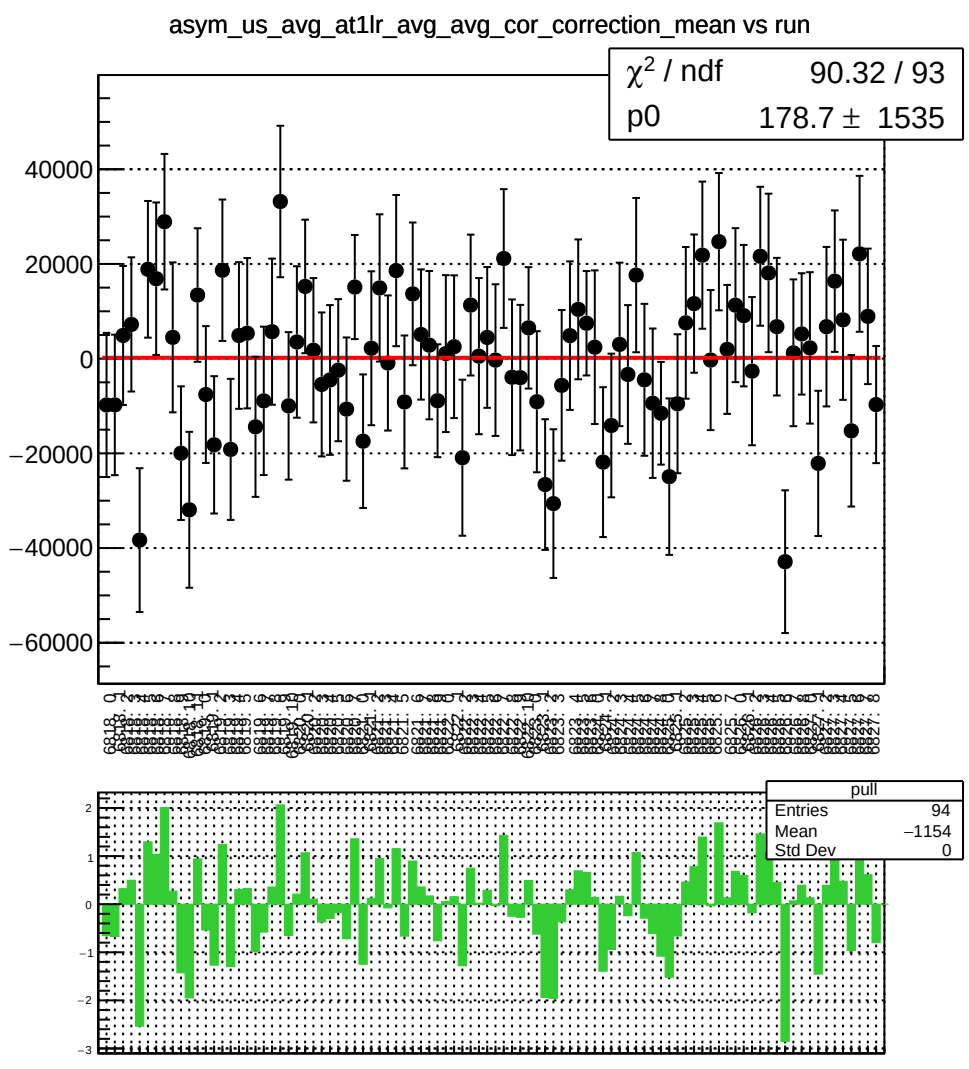

pull1D
Entries 94
Mean −0.001171
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

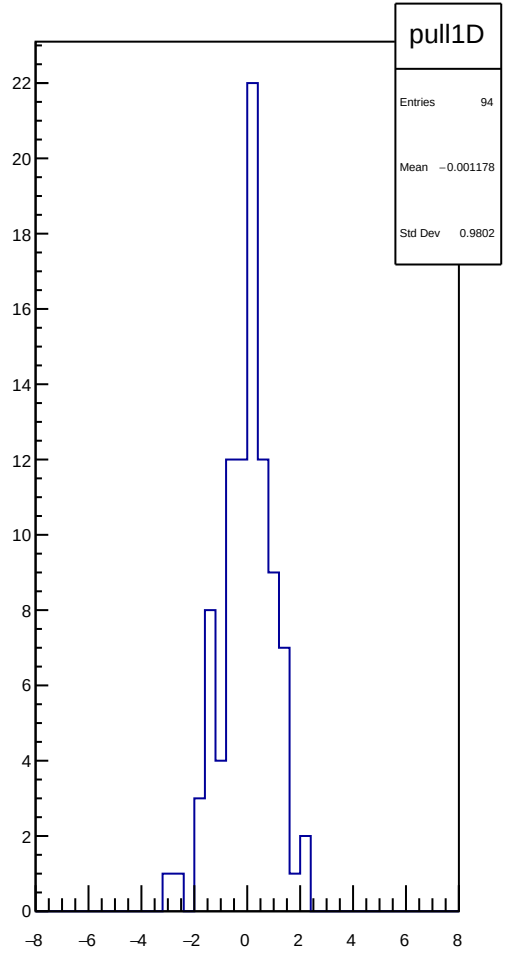

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6461 / 93
p0 1452 ± 1.085
2000
1900
1800
1700
1600
1500
1400
1300

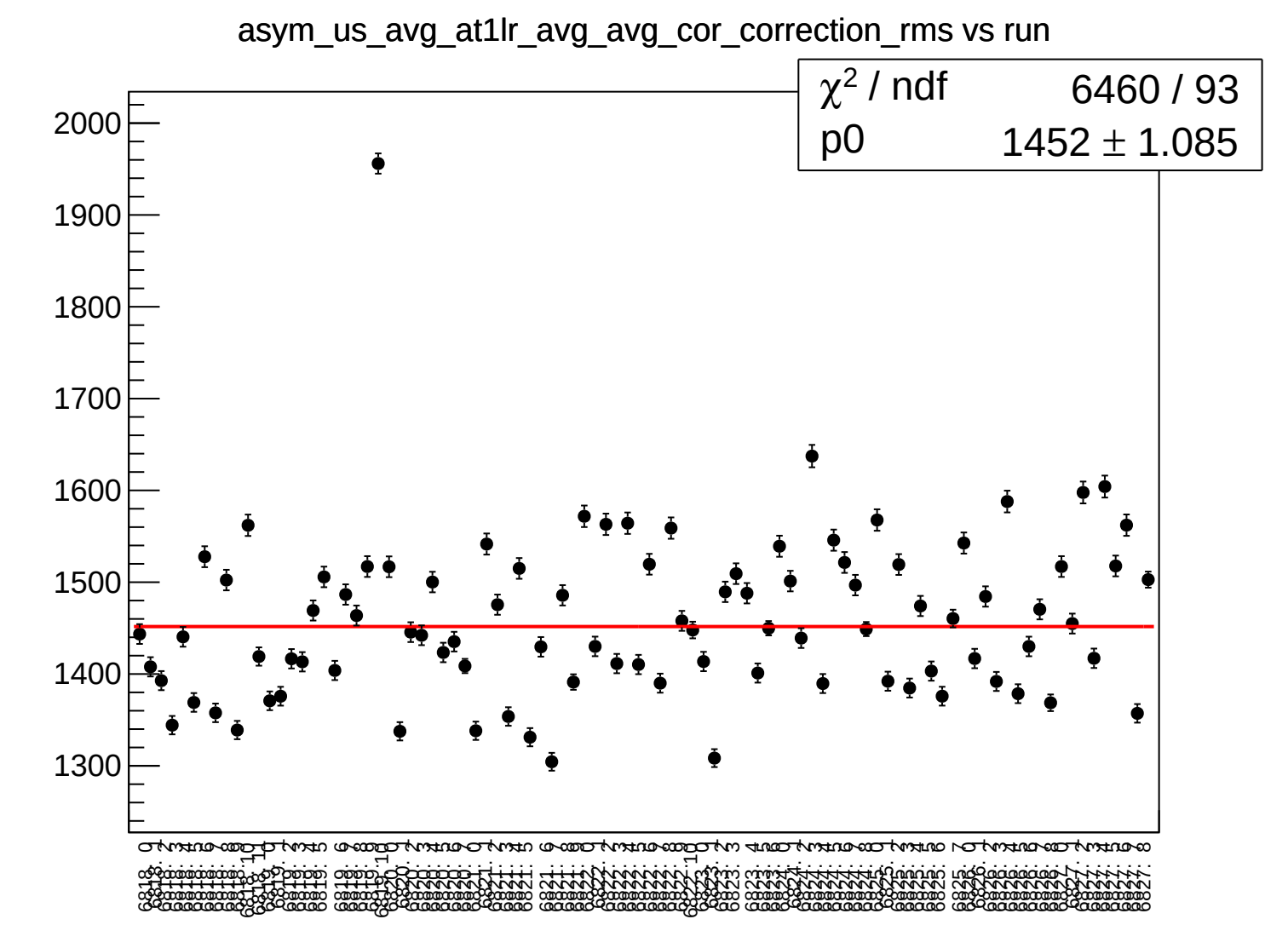

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 75.45 / 93
p0 −1791 ± 2295
pull
Entries 94
Mean 403.7
Std Dev 0

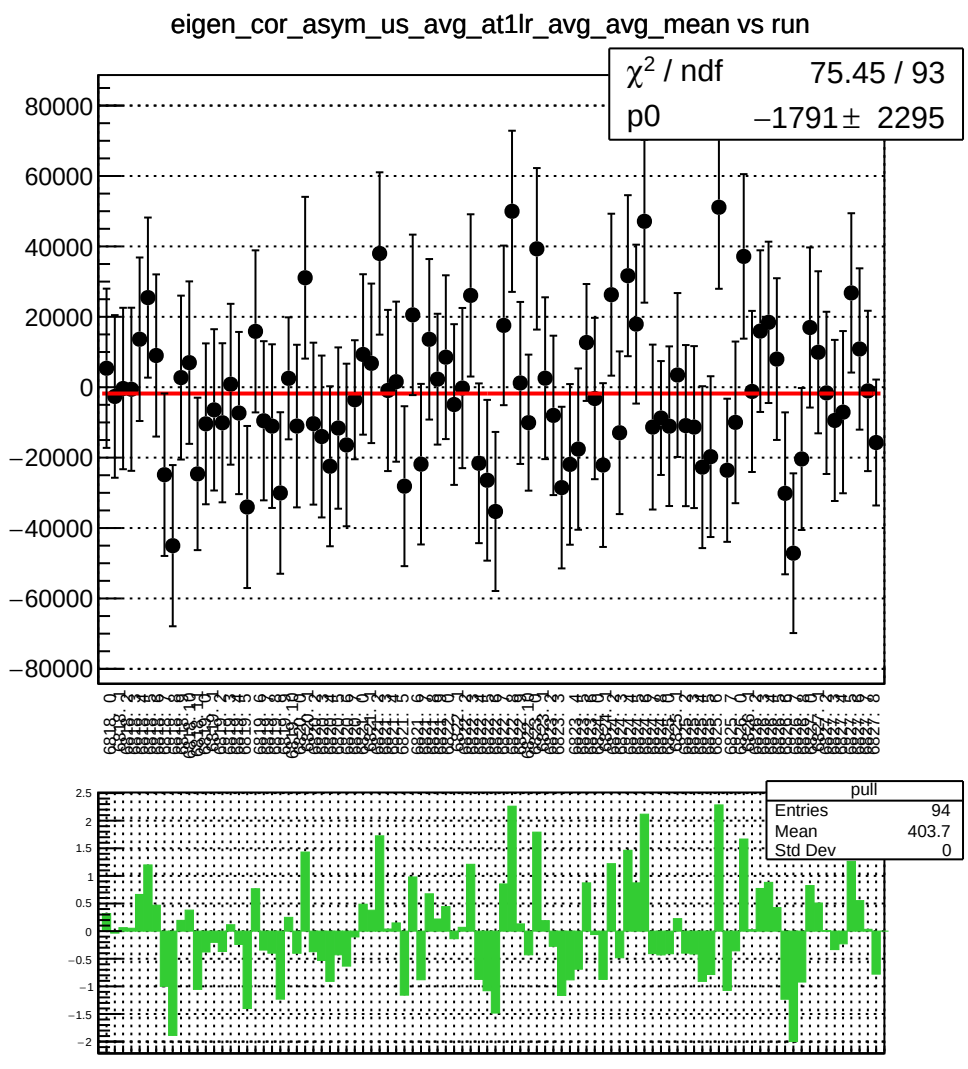

pull1D
Entries 94
Mean 0.004935
Std Dev 0.8959

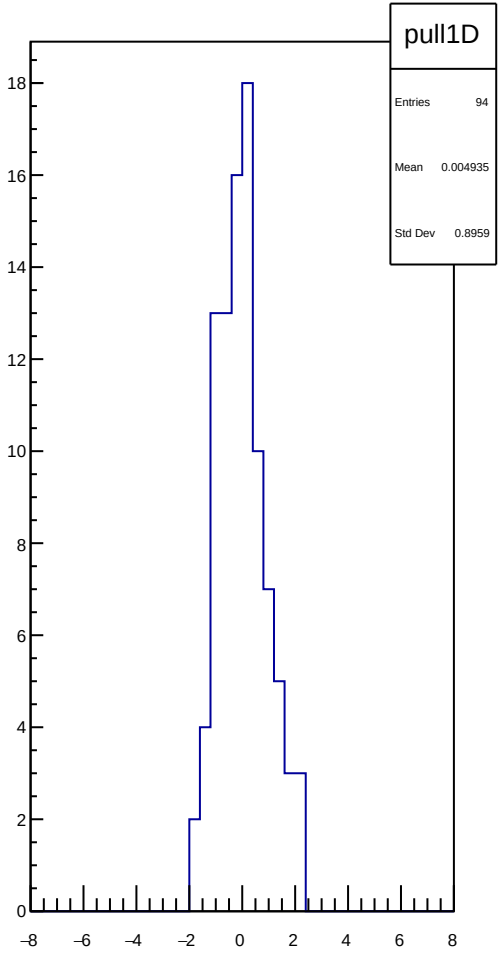

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 106.8 / 93
p0 2174 ± 1.623
2240
2220
2200
2180
2160
2140
2120

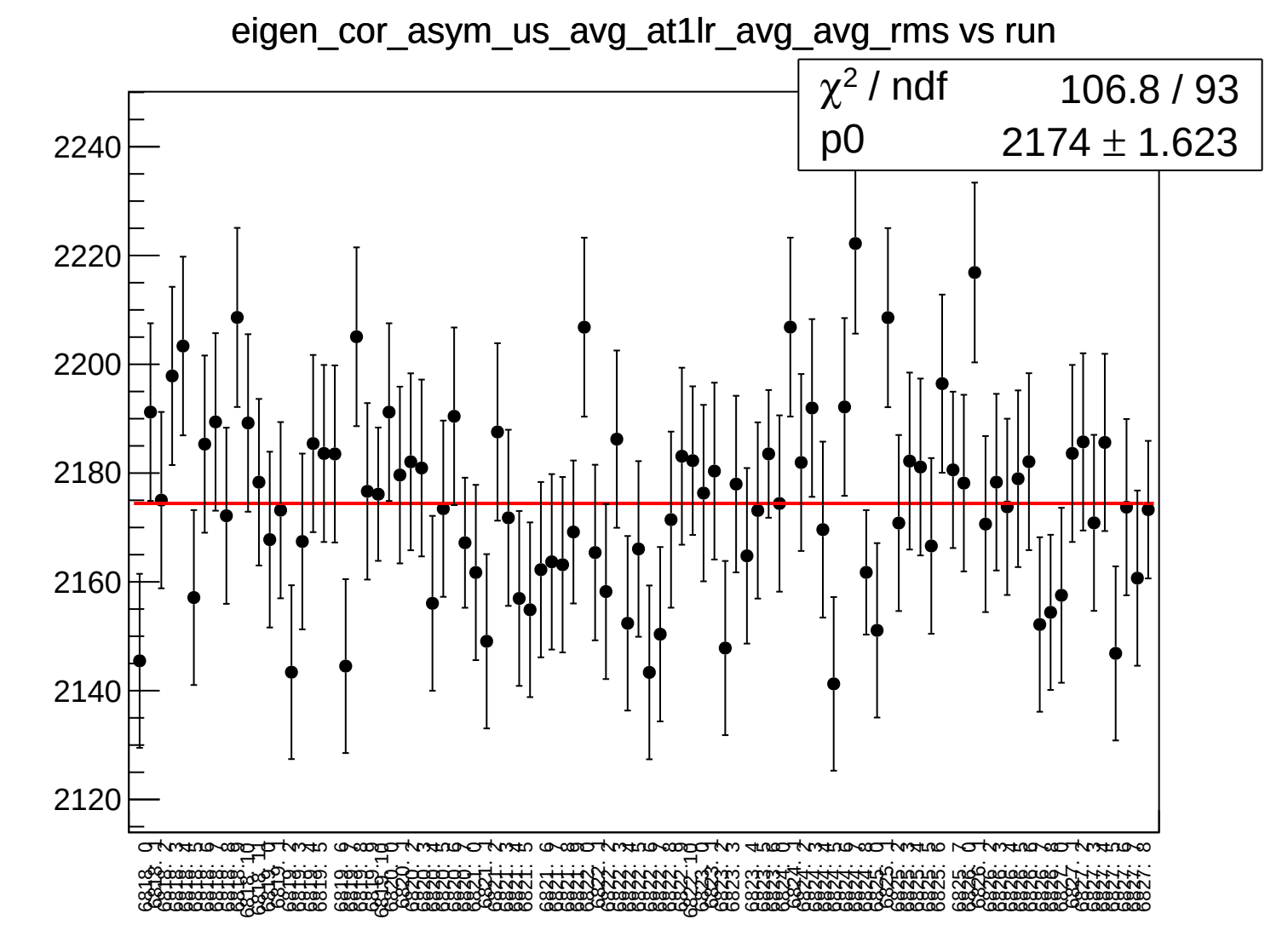

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 90.32 / 93
p0 178.7 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1154
Std Dev 0
2
1
0
−1
−2
−3

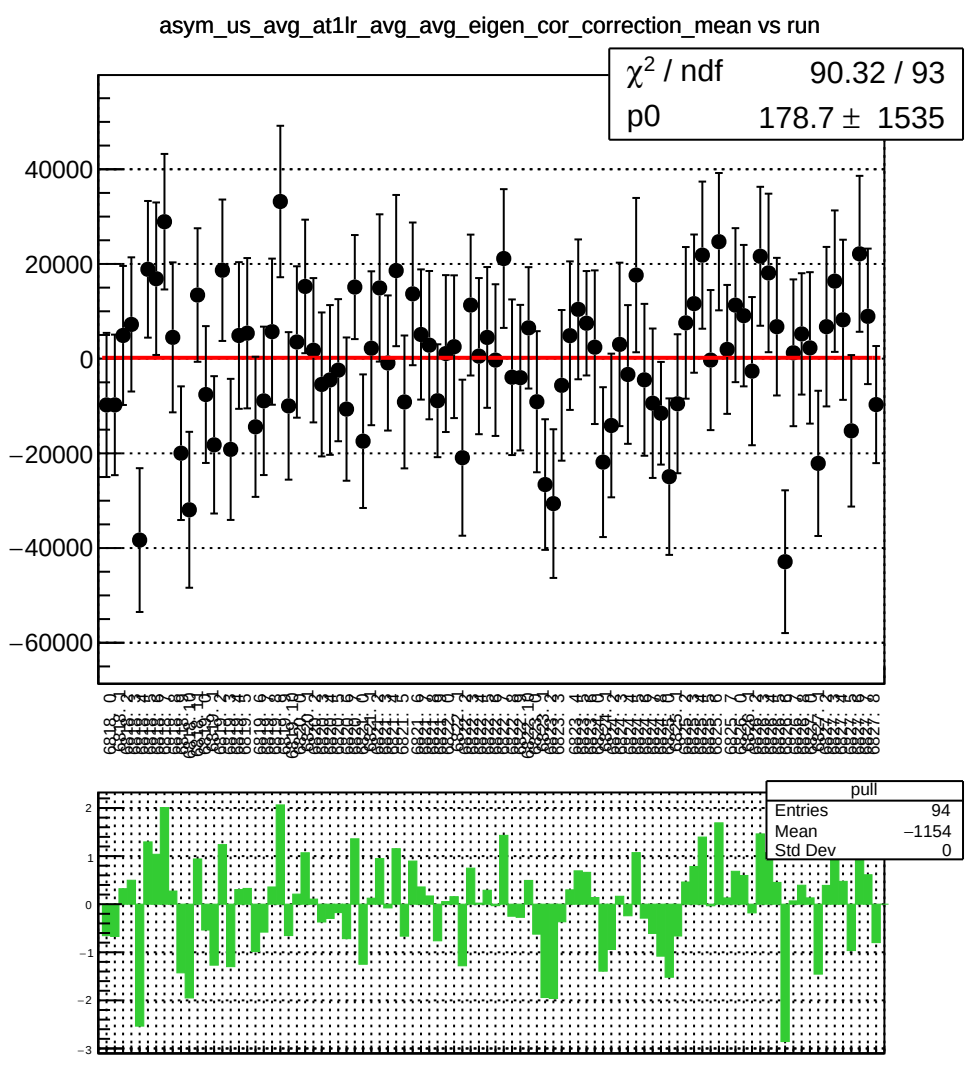

pull1D
Entries 94
Mean −0.001178
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

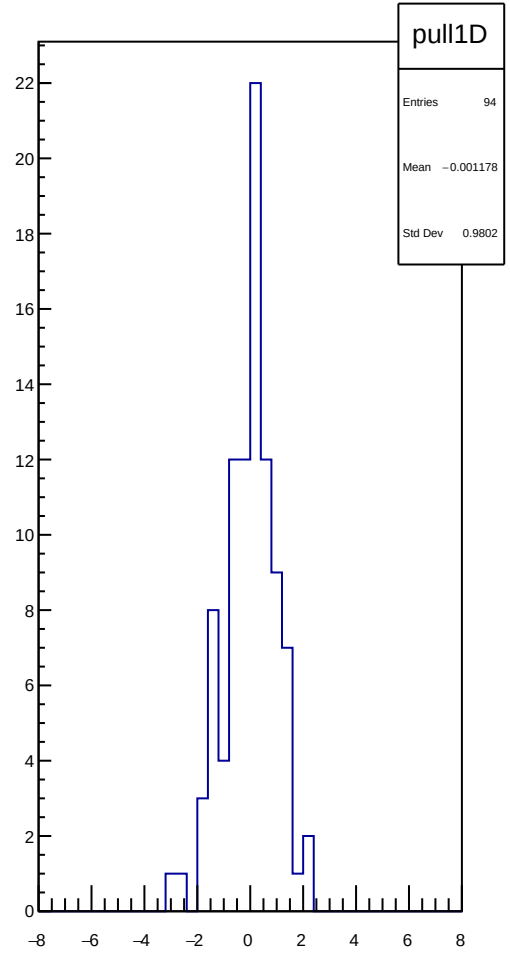

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 6460 / 93
p0 1452 ± 1.085
2000
1900
1800
1700
1600
1500
1400
1300

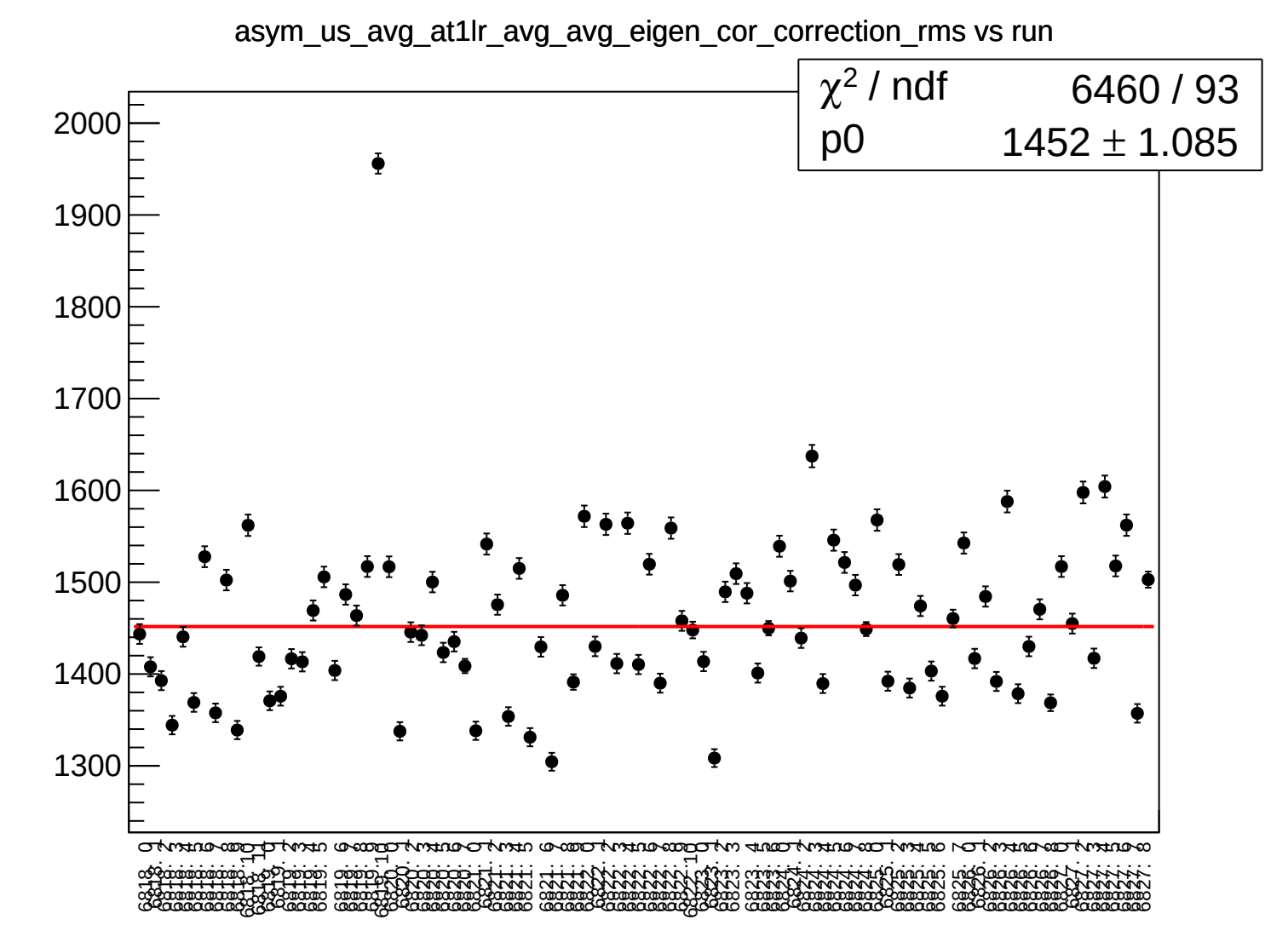

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 75.45 / 93
p0 −1791 ± 2295
pull
Entries 94
Mean 403.7
Std Dev 0

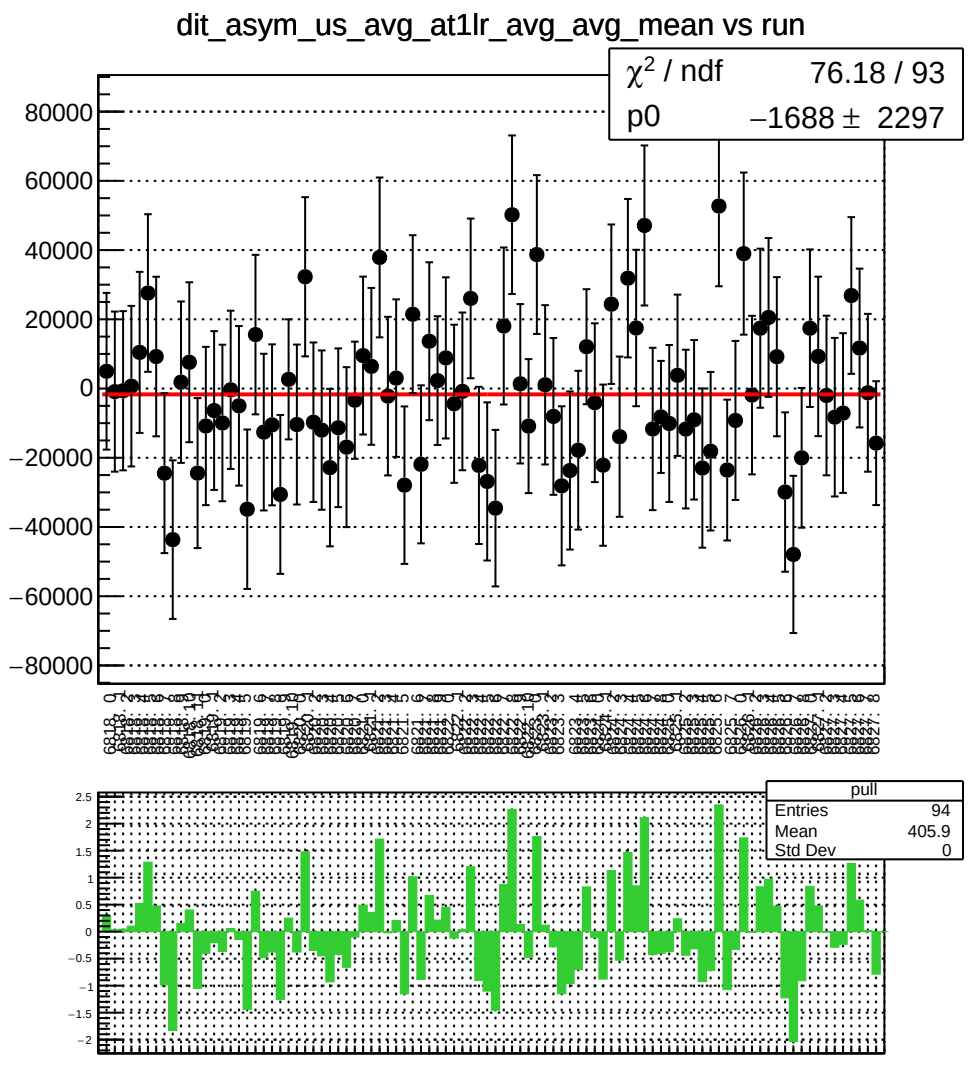

pull1D
Entries 94
Mean 0.004935
Std Dev 0.8959

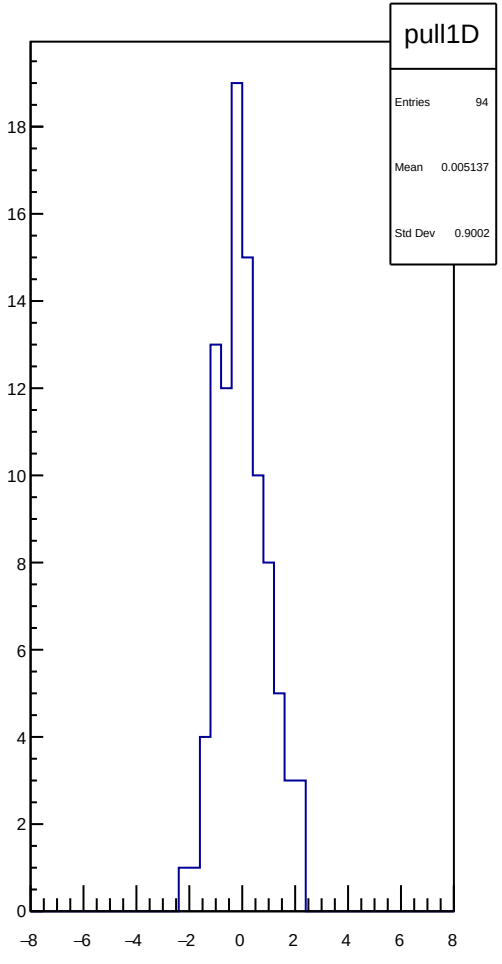

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 106.8 / 93
p0 2174 ± 1.623
2240
2220
2200
2180
2160
2140
2120

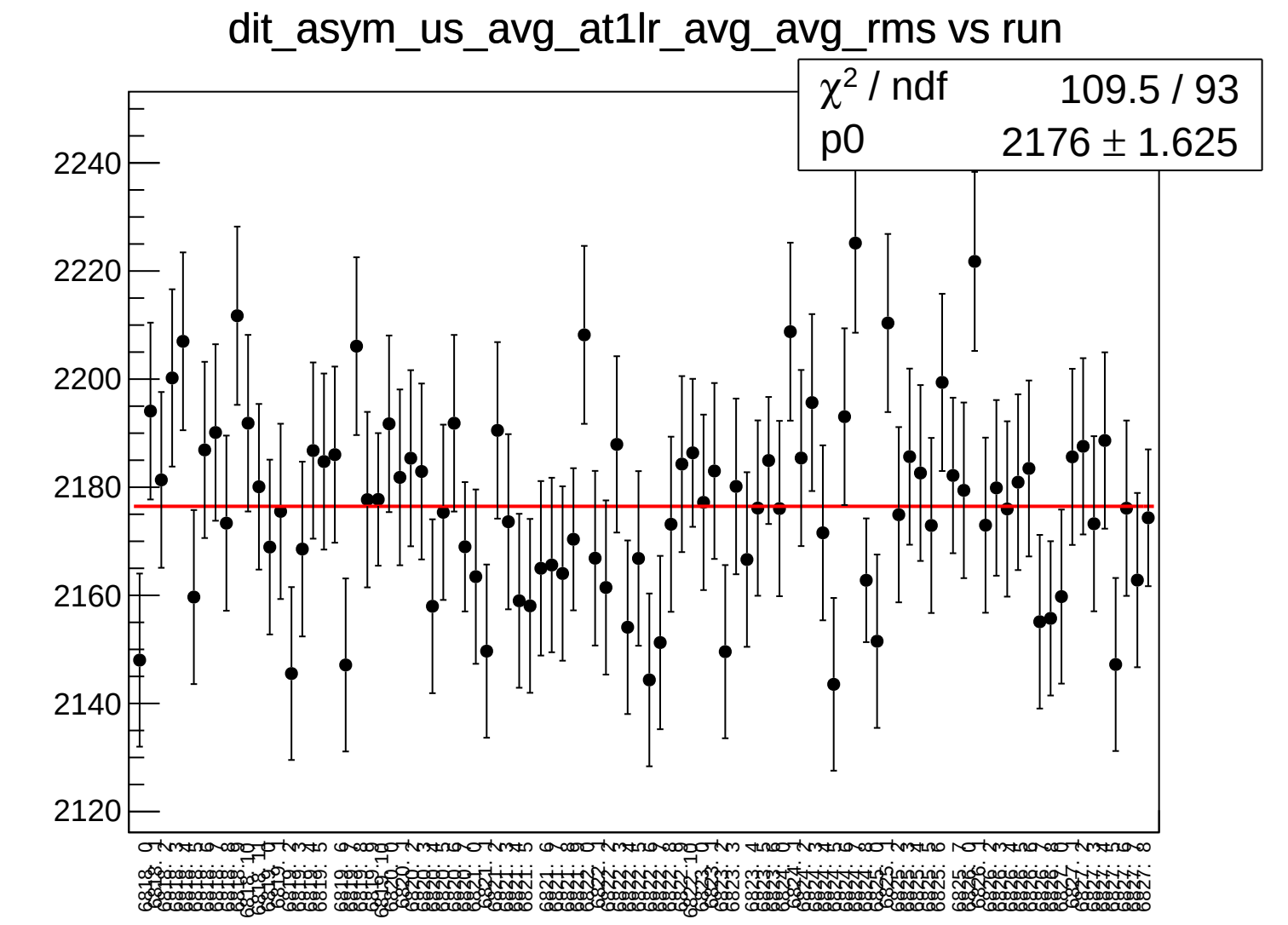

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.32 / 93
p0 178.7 ± 1535
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1154
Std Dev 0
2
1
0
−1
−2
−3

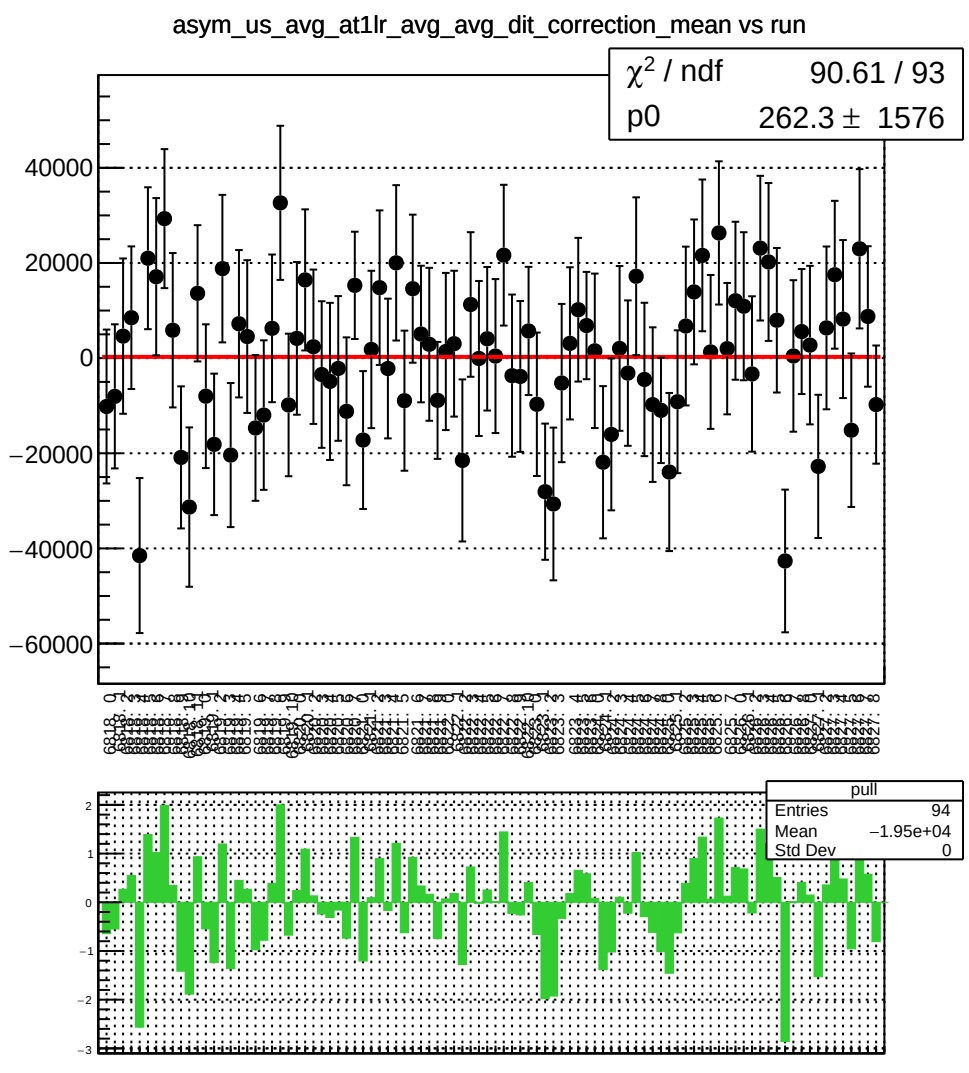

pull1D
Entries 94
Mean −0.001178
Std Dev 0.9802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

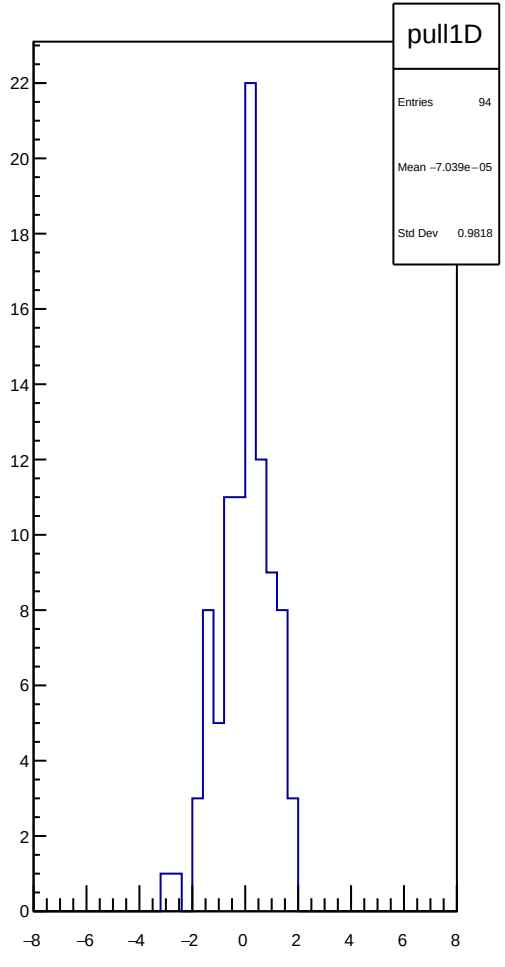

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6460 / 93
p0 1452 ± 1.085
2000
1900
1800
1700
1600
1500
1400
1300

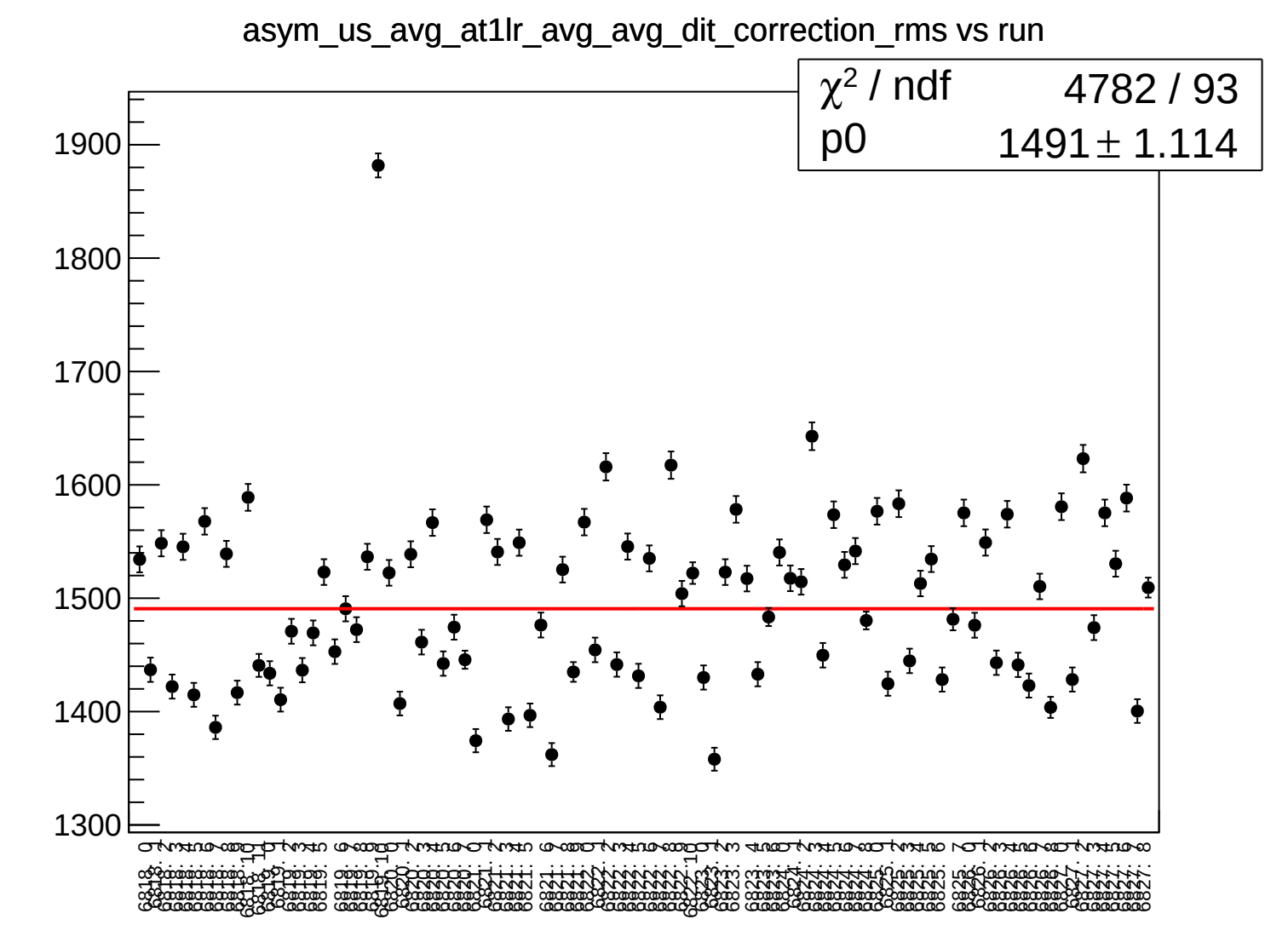

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.18 / 93
p0 −1688 ± 2297
pull
Entries 94
Mean 405.9
Std Dev 0

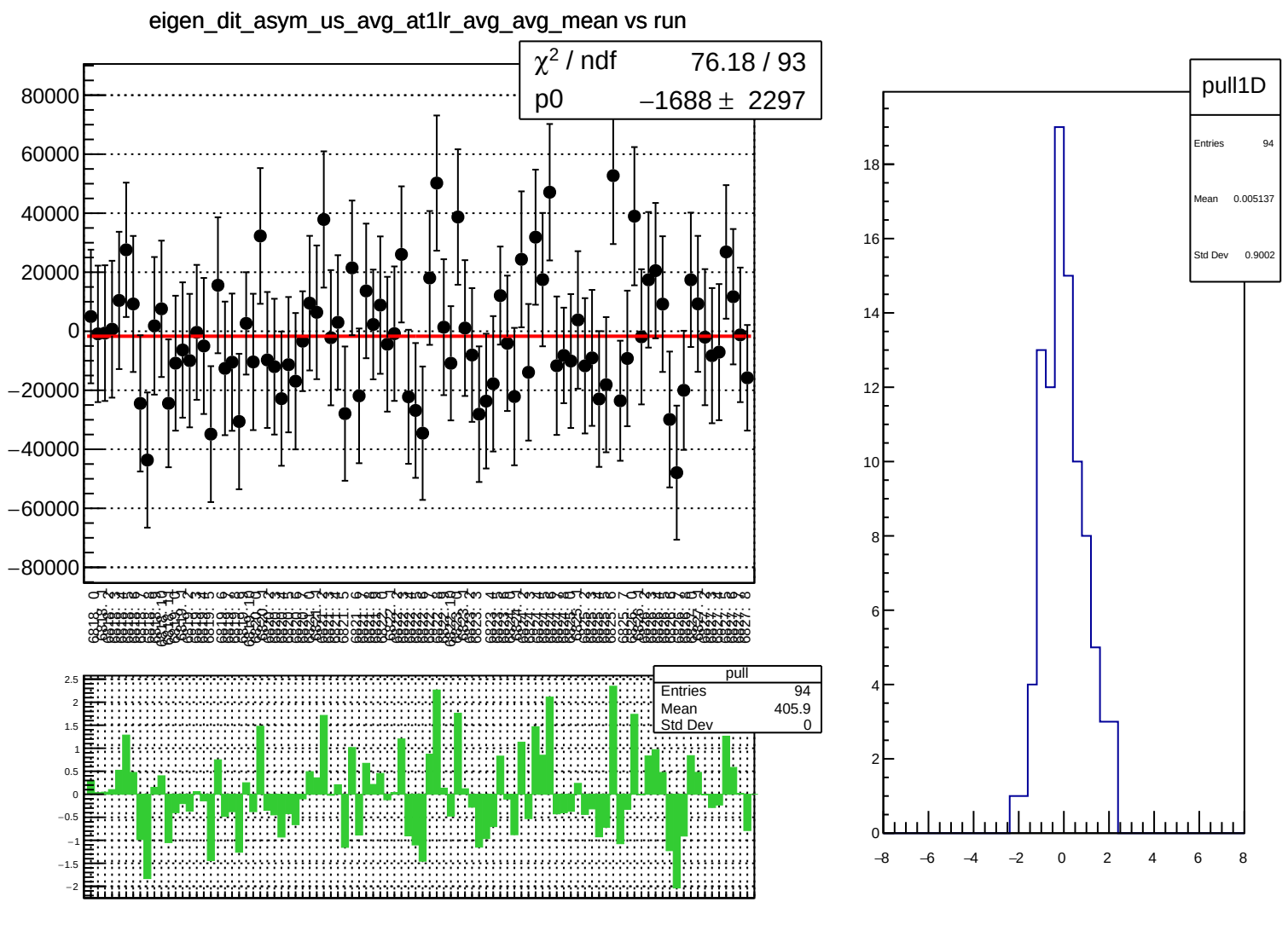

pull1D
Entries 94
Mean 0.005137
Std Dev 0.9002

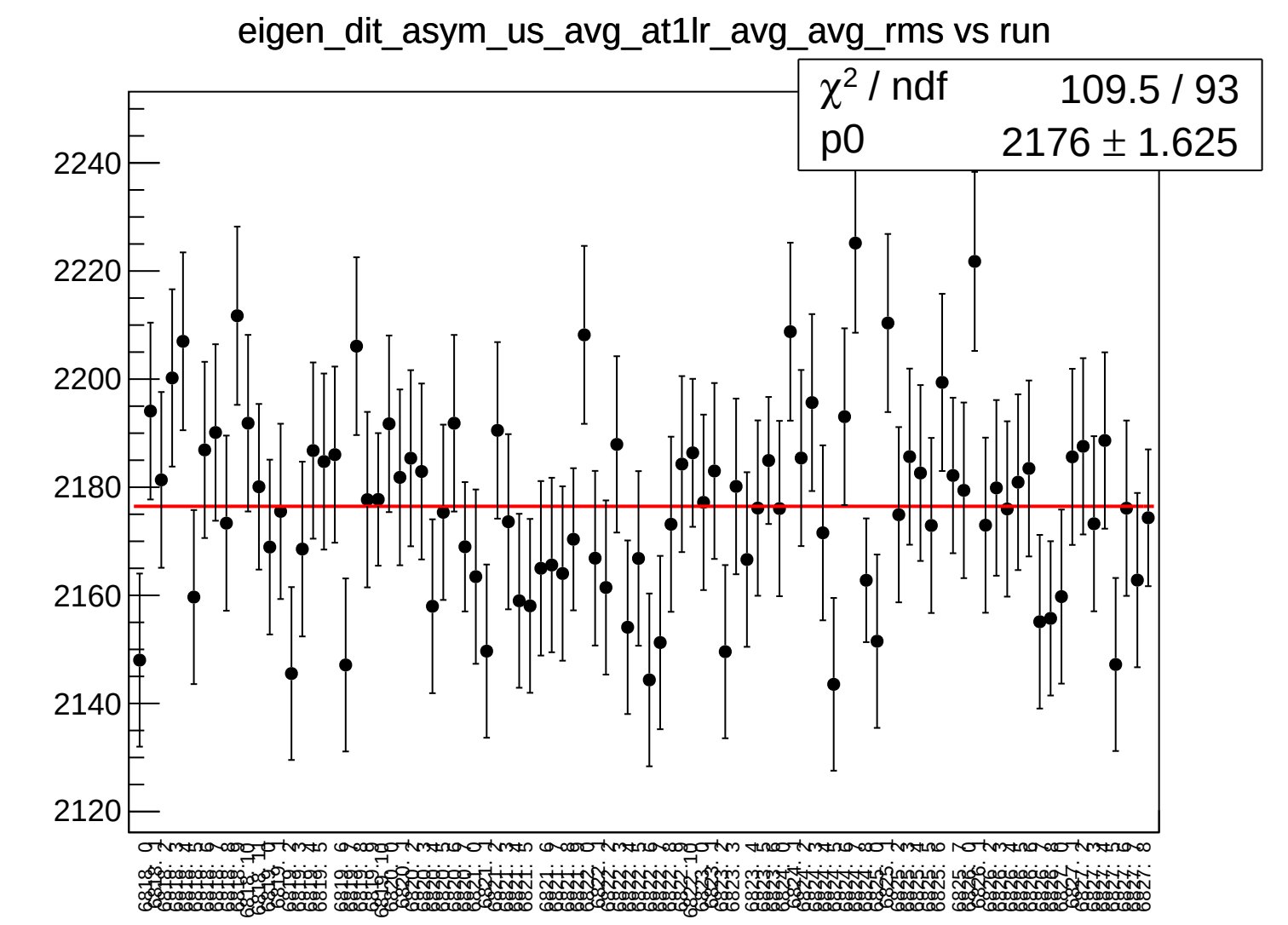

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 109.5 / 93
p0 2176 ± 1.625
2240
2220
2200
2180
2160
2140
2120

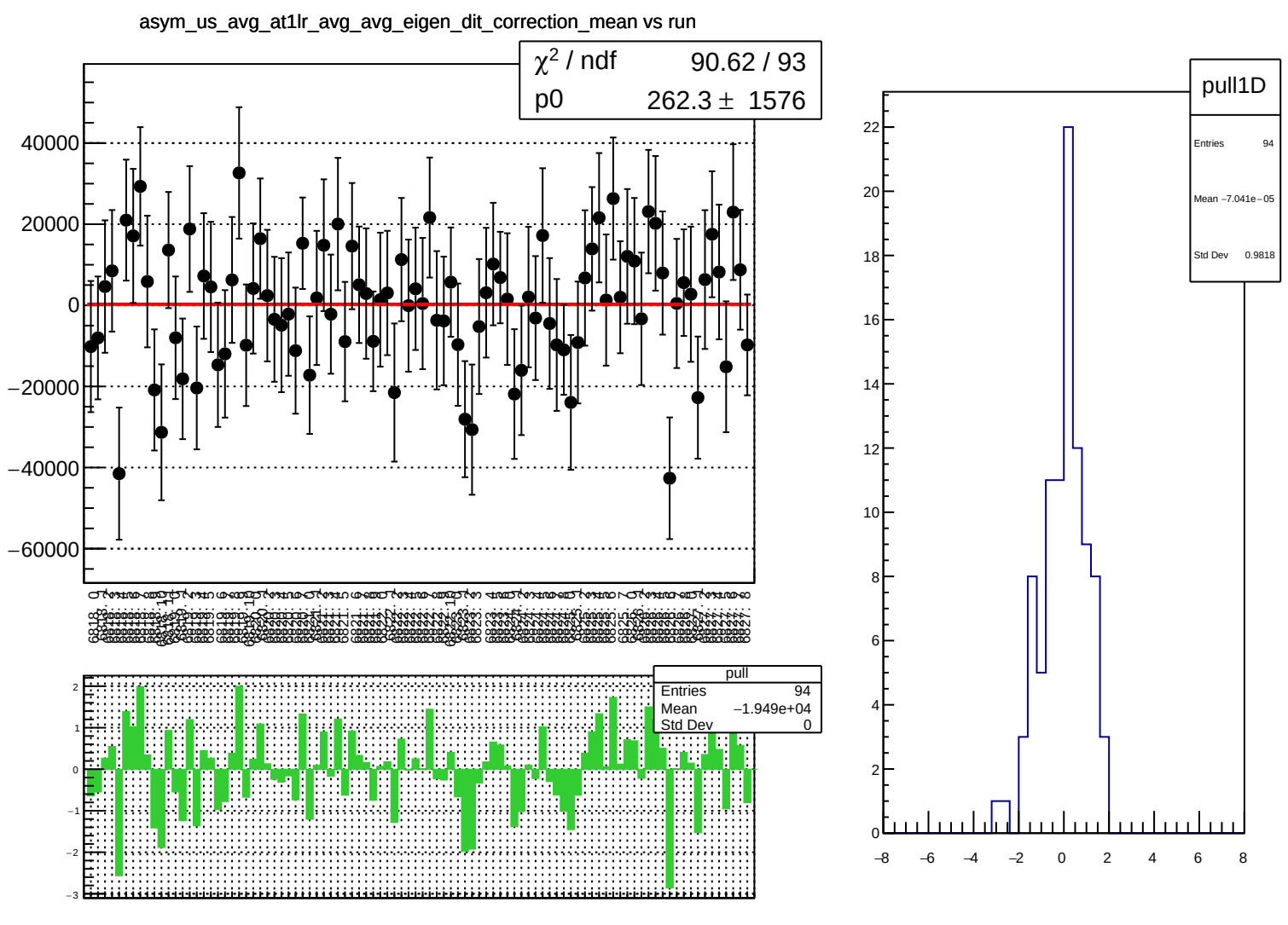

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 90.61 / 93
p0 262.3 ± 1576
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1.95e+04
Std Dev 0
2
1
0
−1
−2
−3

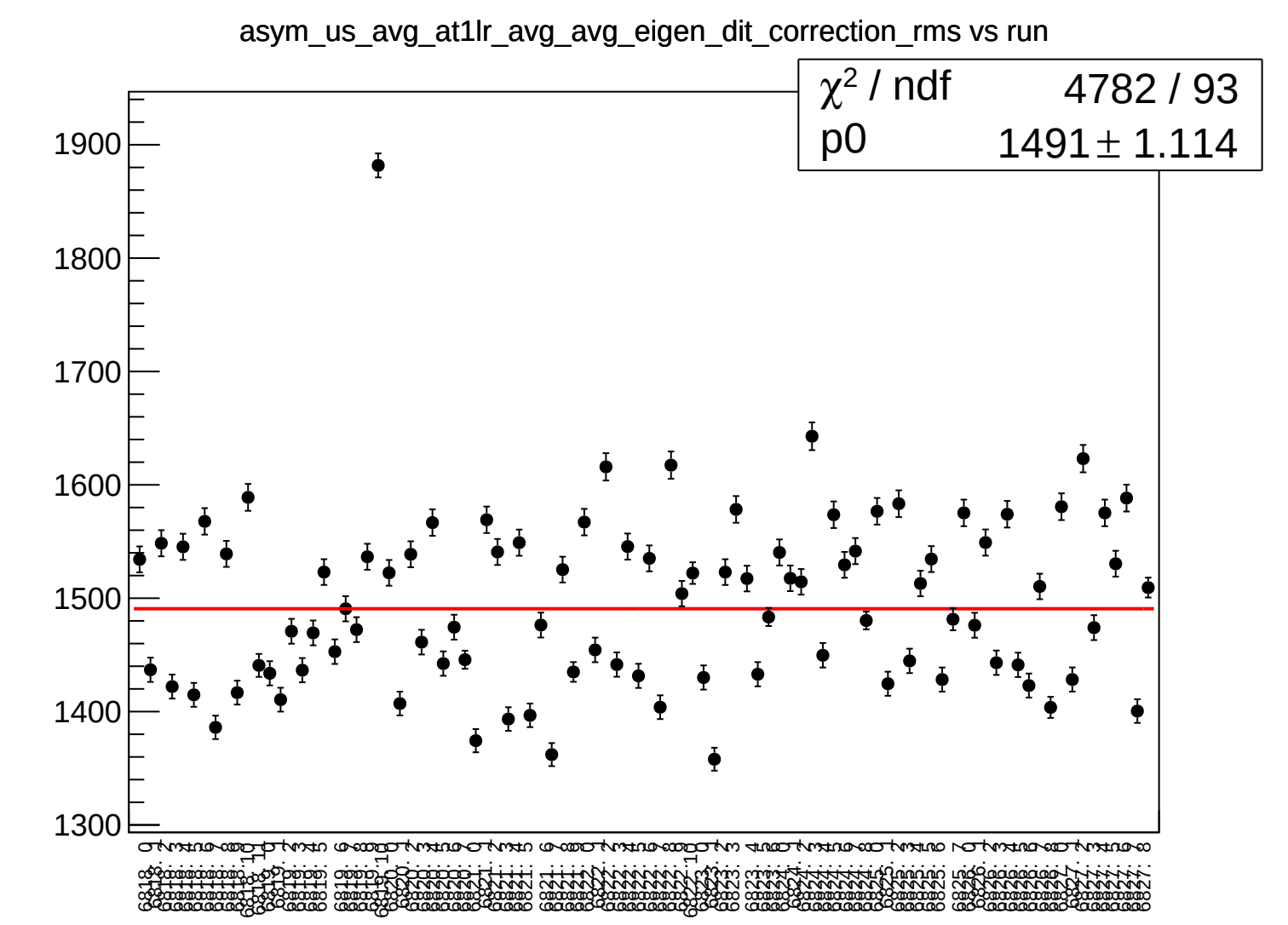

pull1D
Entries 94
Mean −7.039e−05
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

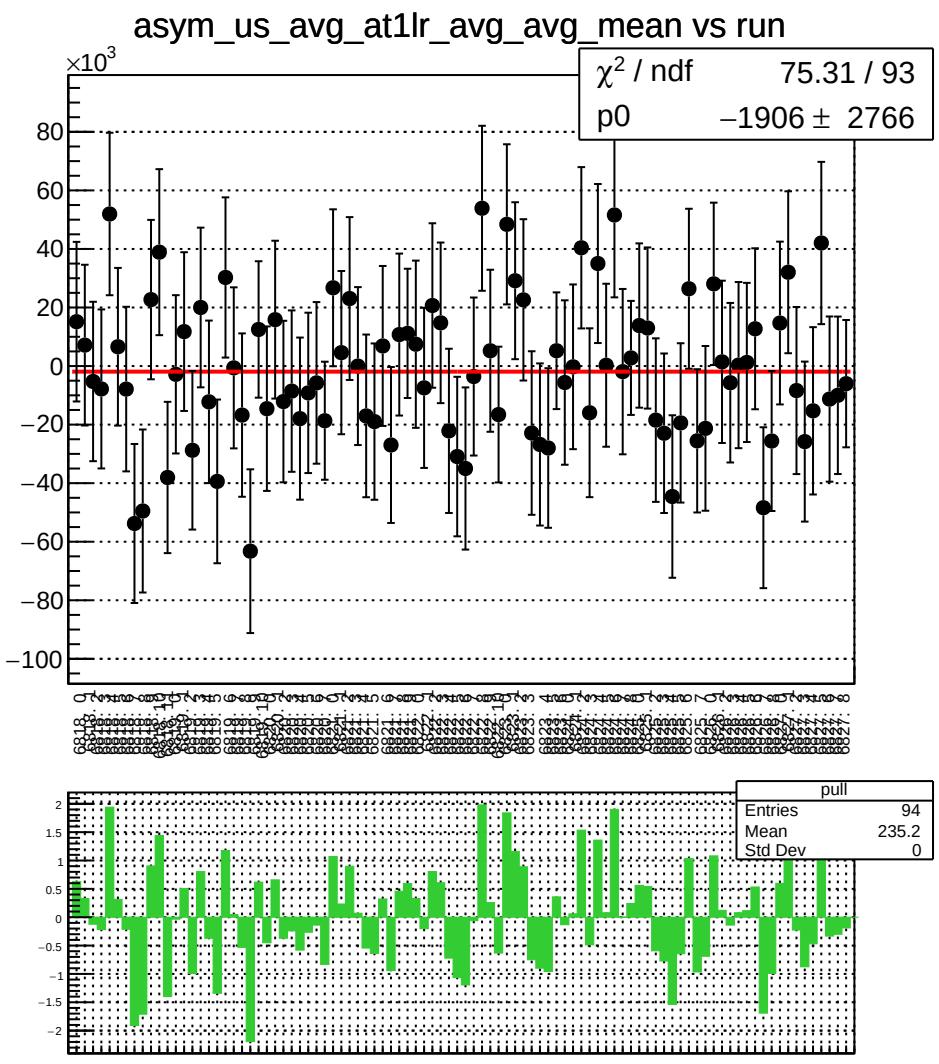

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4782 / 93
p0 1491 ± 1.114
1900
1800
1700
1600
1500
1400
1300

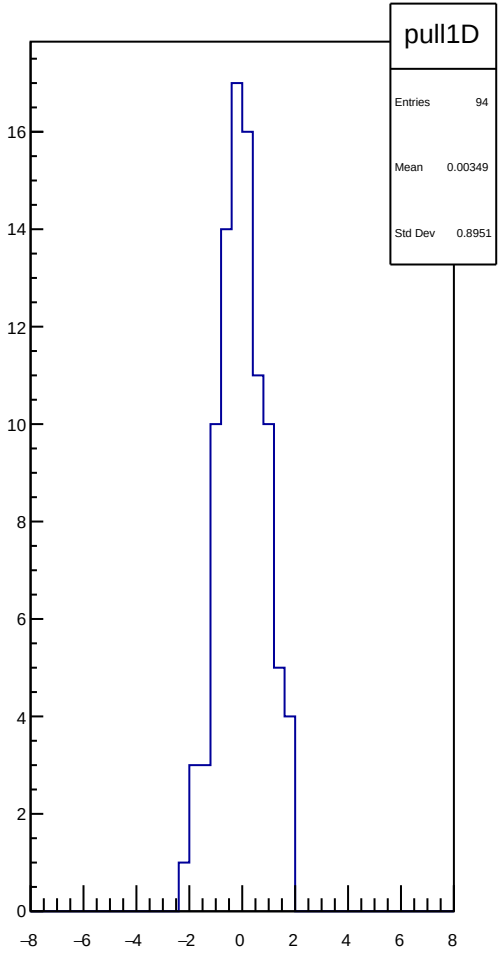

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 76.18 / 93
p0 −1688 ± 2297
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 405.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.005137
Std Dev 0.9002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

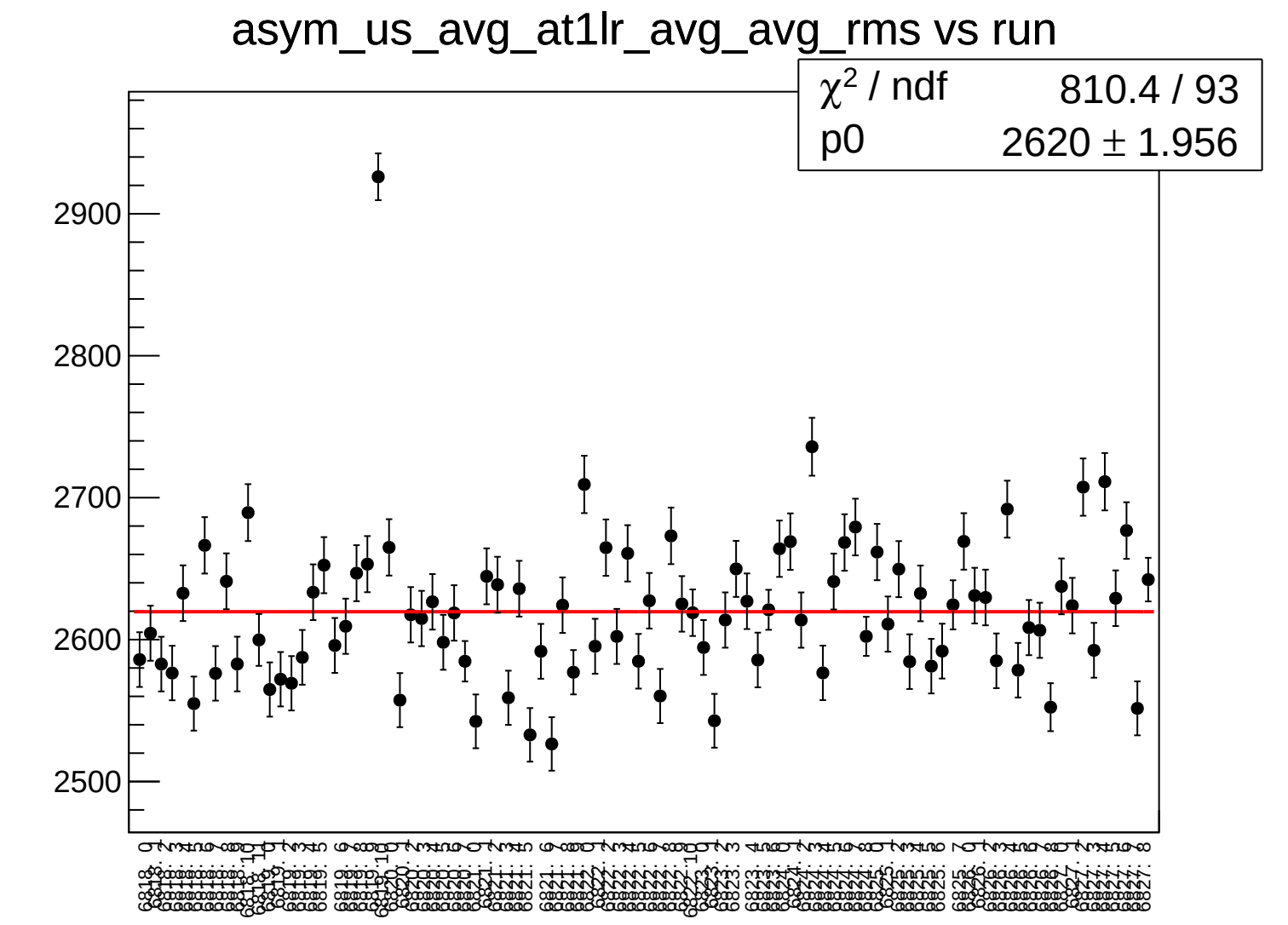

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 109.5 / 93
p0 2176 ± 1.625
2240
2220
2200
2180
2160
2140
2120

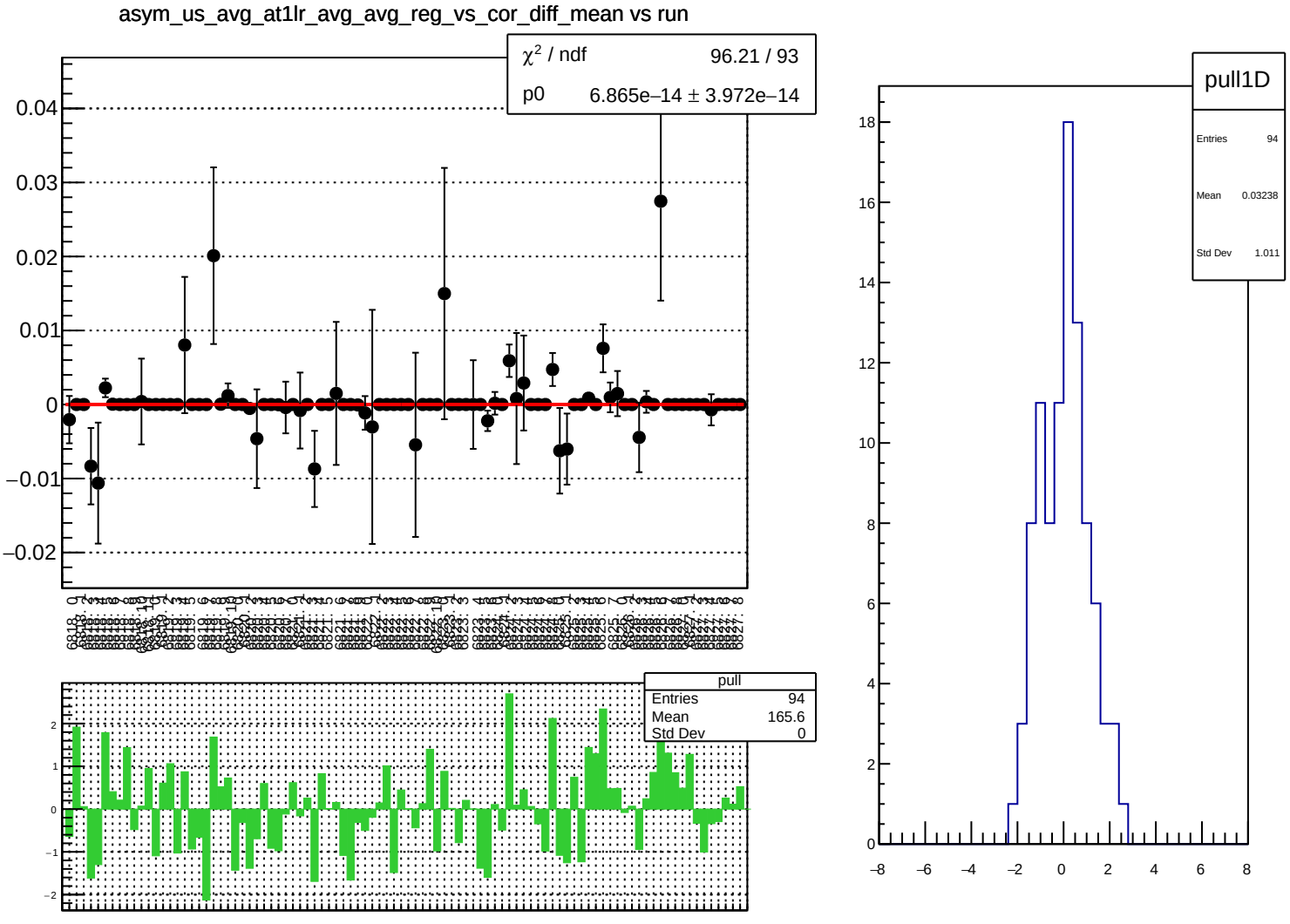

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 90.62 / 93
p0 262.3 ± 1576
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −1.949e+04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −7.041e−05
Std Dev 0.9818
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

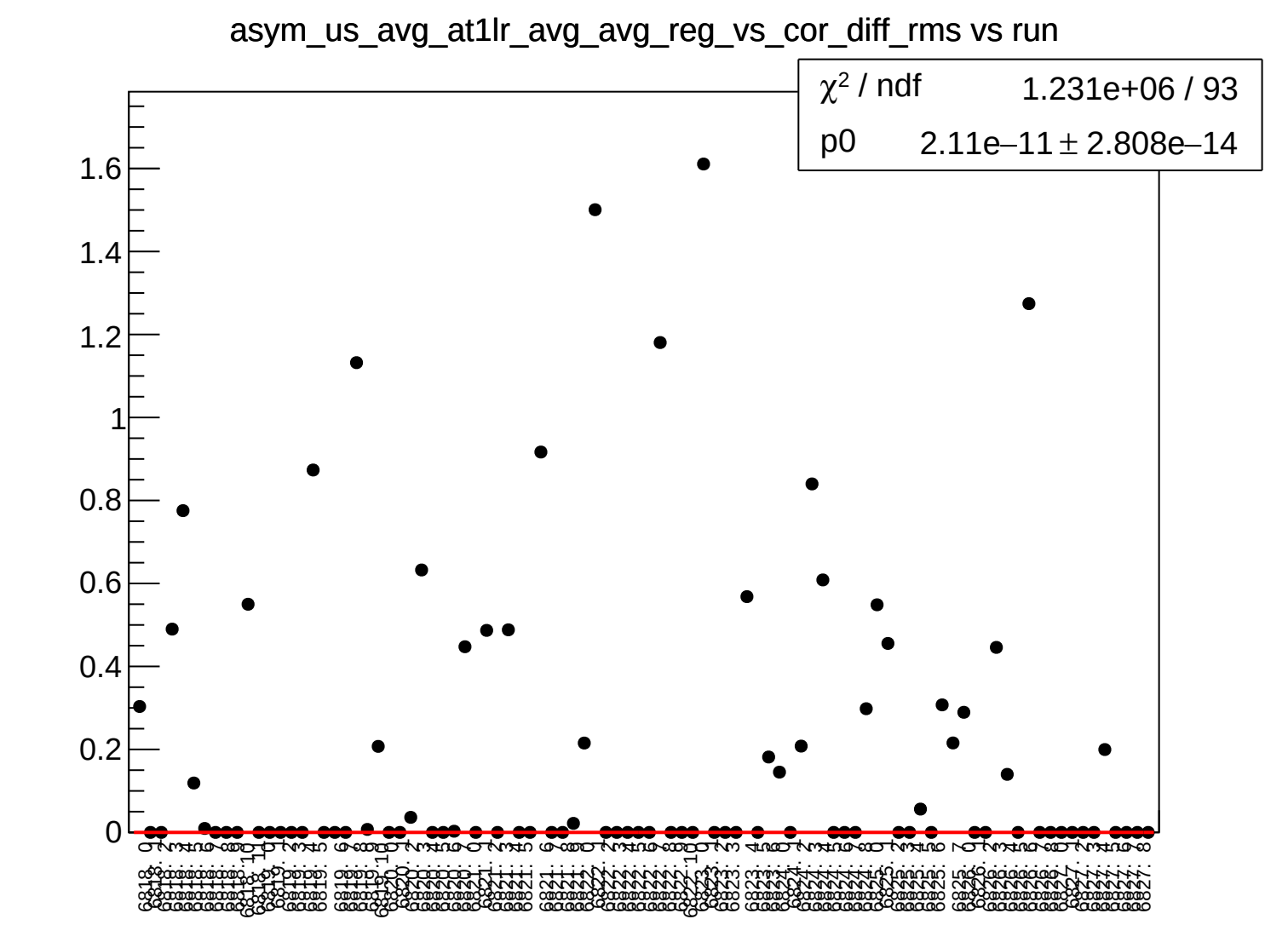

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4782 / 93
p0 1491 ± 1.114
1900
1800
1700
1600
1500
1400
1300

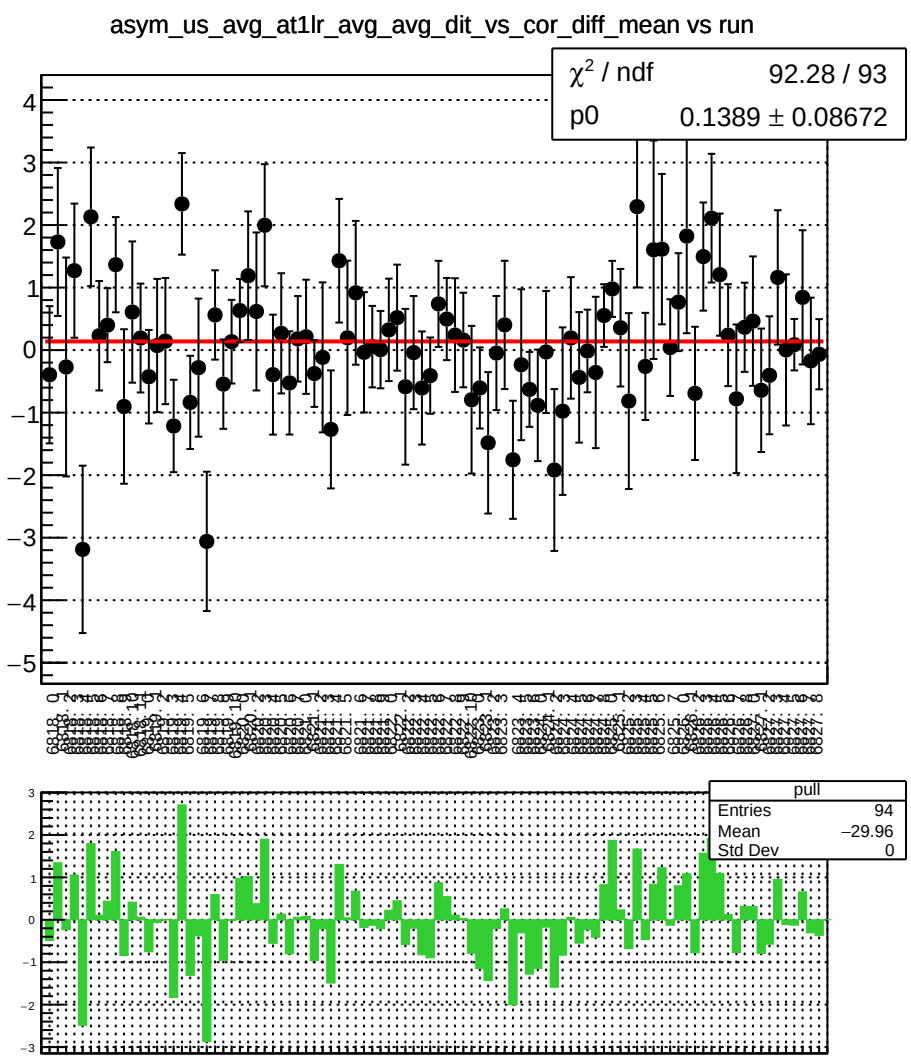

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 75.31 / 93
p0 −1906 ± 2766
pull
Entries 94
Mean 235.2
Std Dev 0

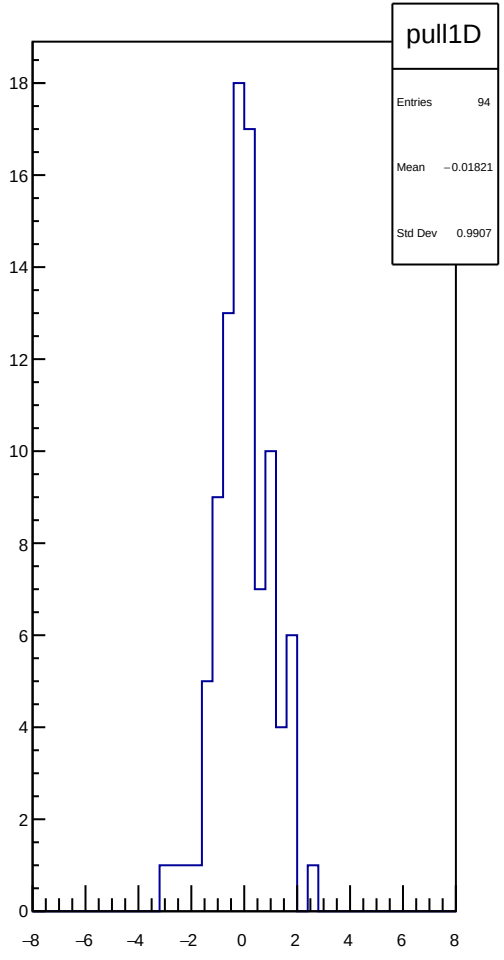

pull1D
Entries 94
Mean 0.00349
Std Dev 0.8951

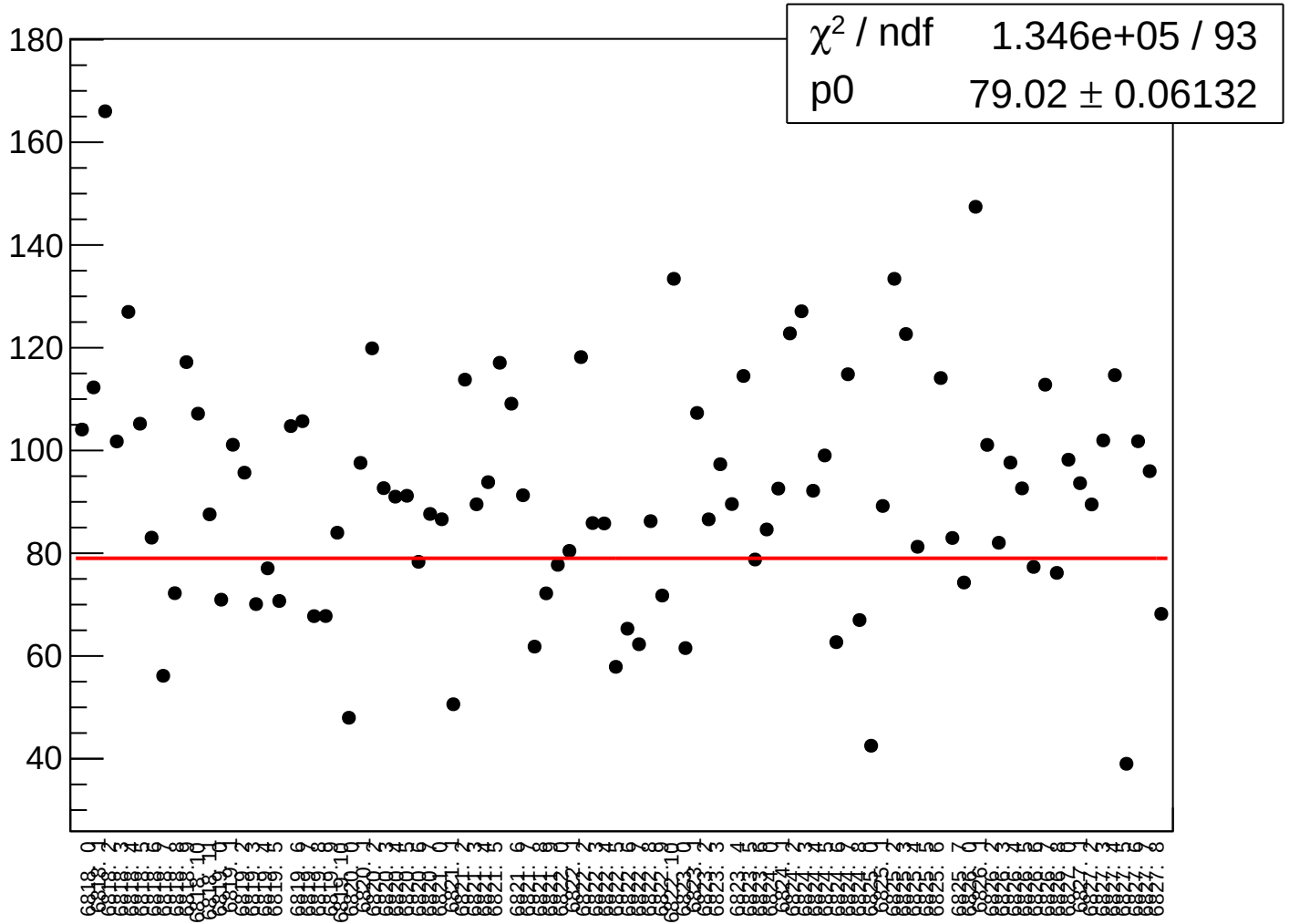

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 810.4 / 93
p0 2620 ± 1.956
2900
2800
2700
2600
2500

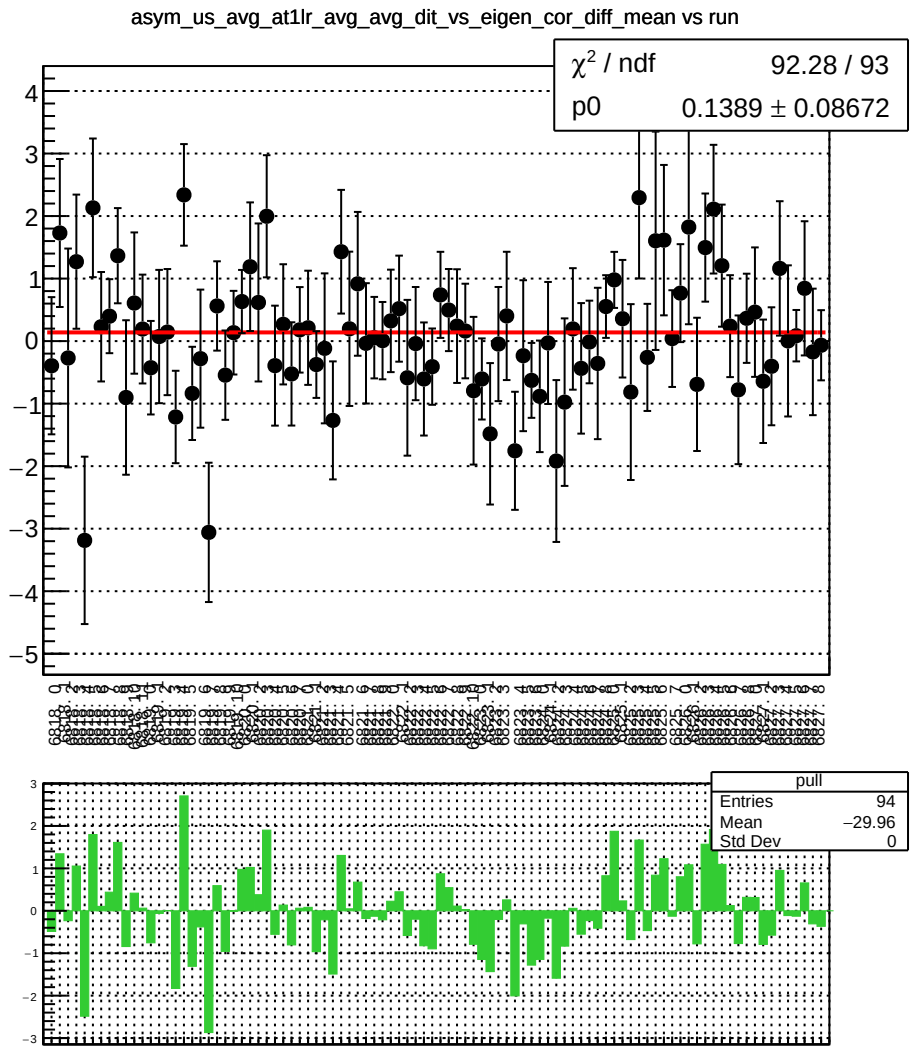

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.21 / 93
p0 6.865e−14 ± 3.972e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 165.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.03238
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

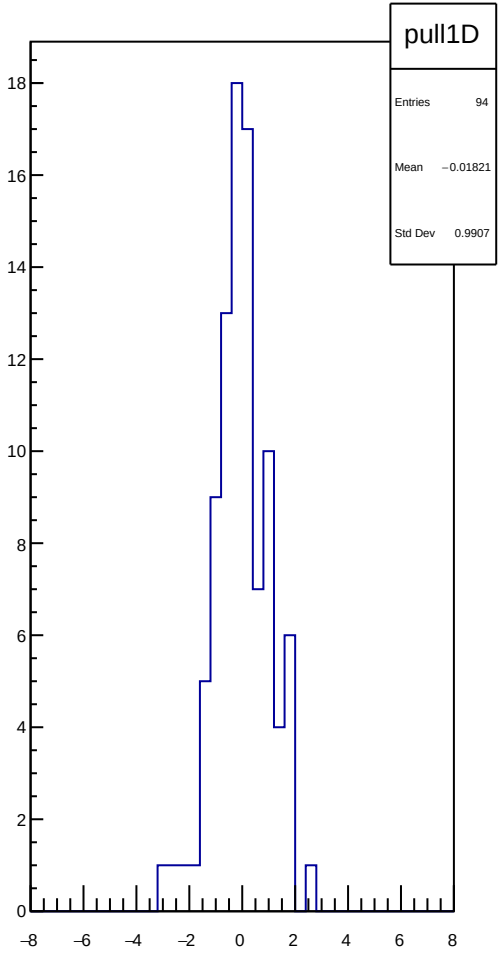

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 93
p0 2.11e−11 ± 2.808e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

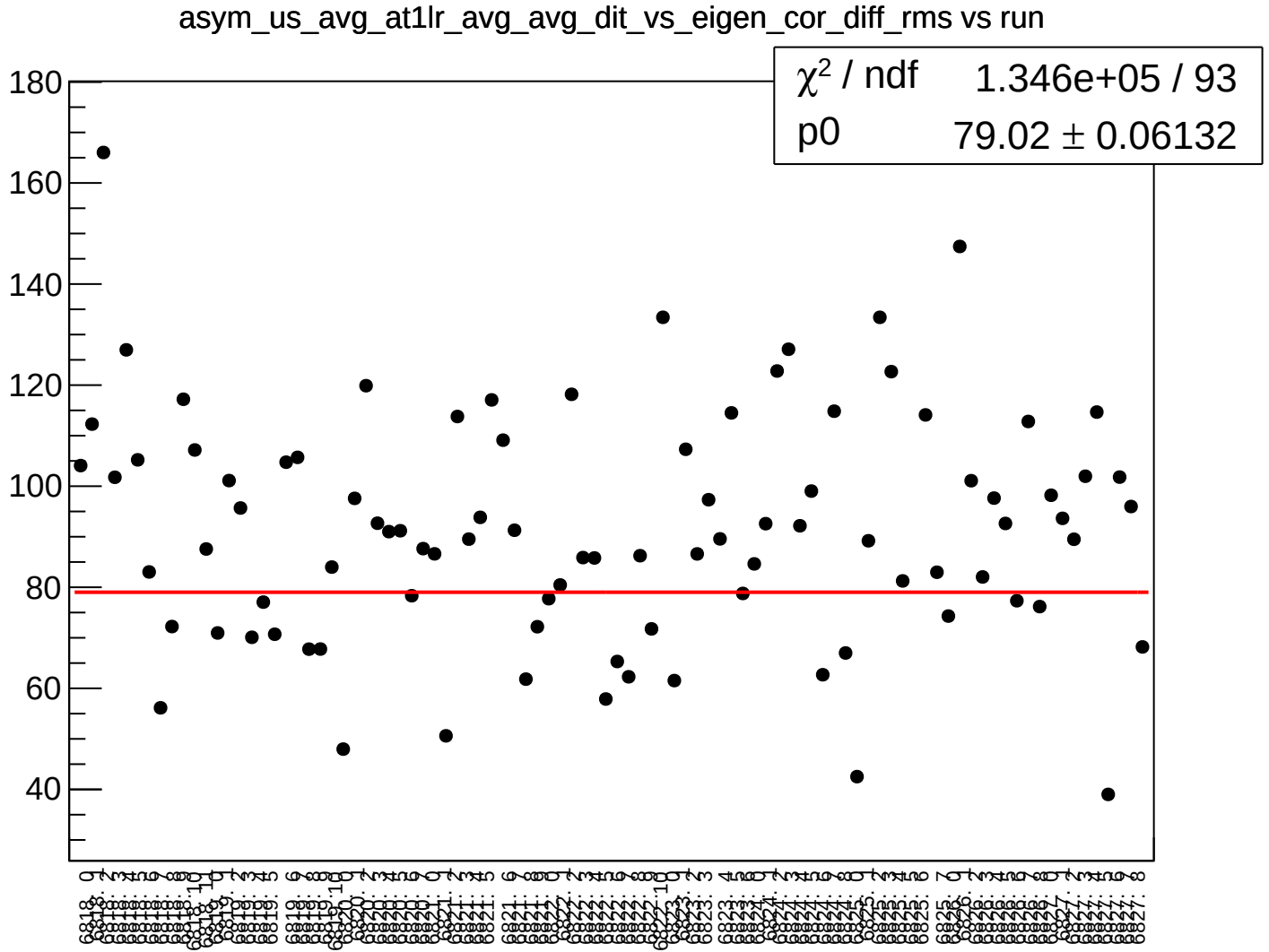

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 93
p0 0.1389 ± 0.08672
pull
Entries 94
Mean −29.96
Std Dev 0

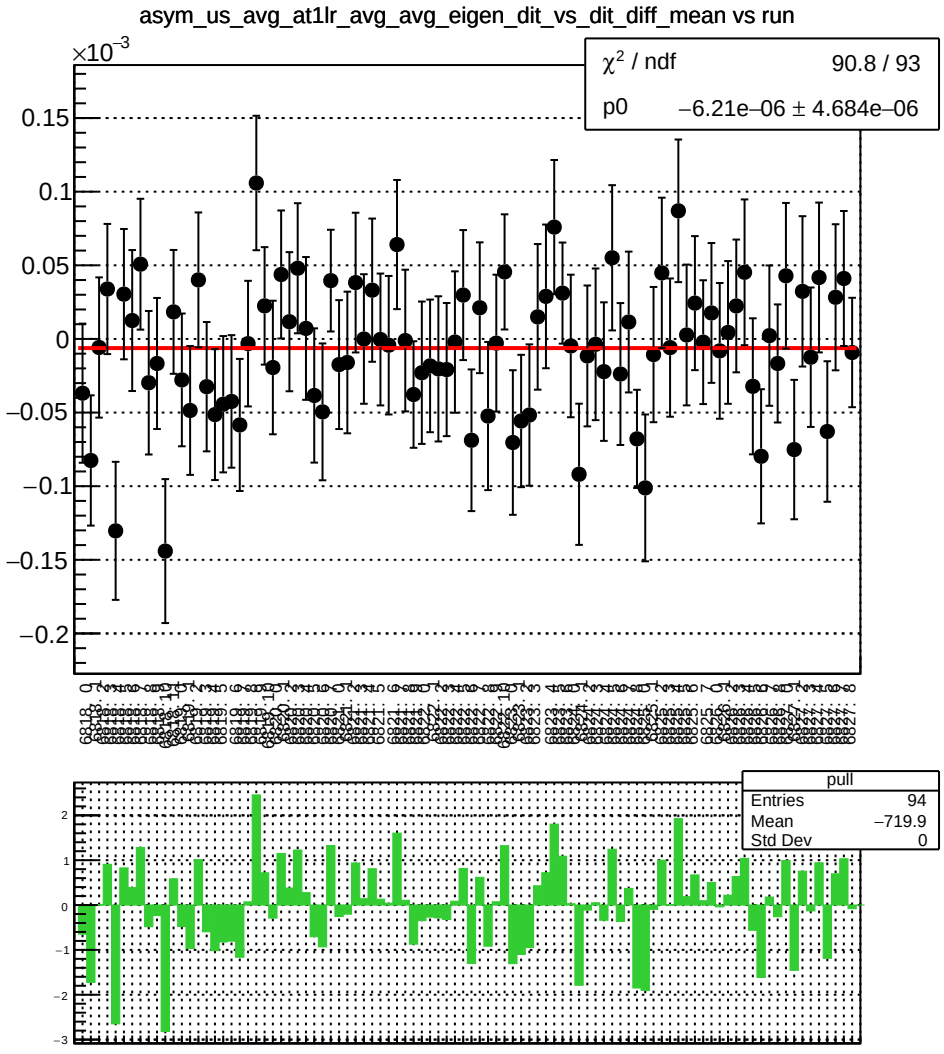

pull1D
Entries 94
Mean −0.01821
Std Dev 0.9907

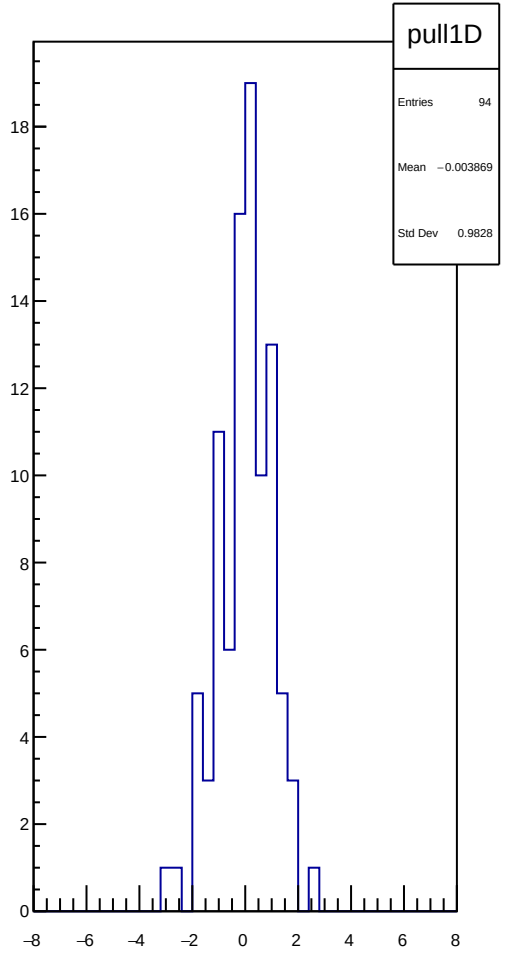

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.346e+05 / 93
p0 79.02 ± 0.06132
180
160
140
120
100
80
60
40

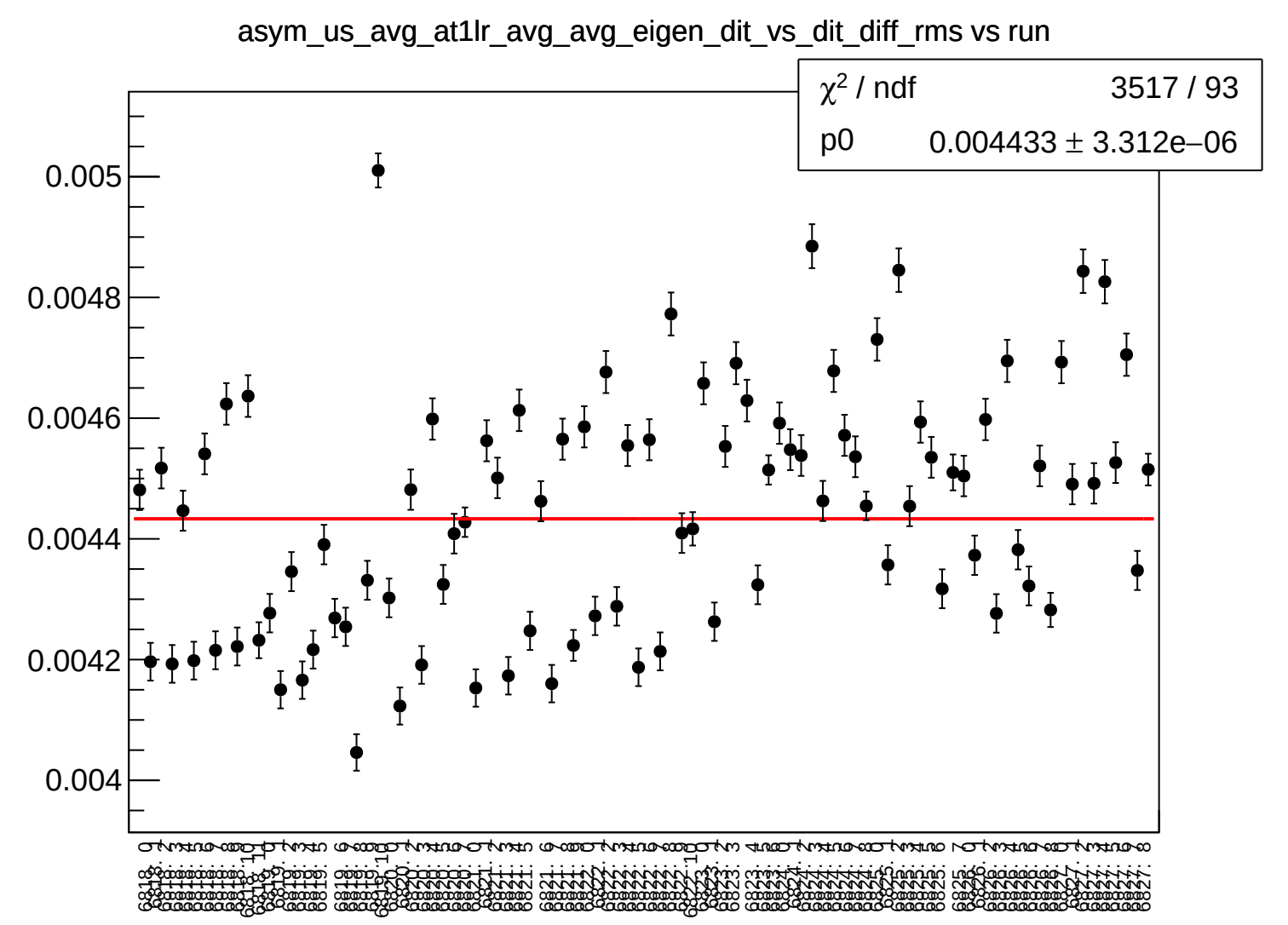

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.28 / 93
p0 0.1389 ± 0.08672
pull
Entries 94
Mean −29.96
Std Dev 0

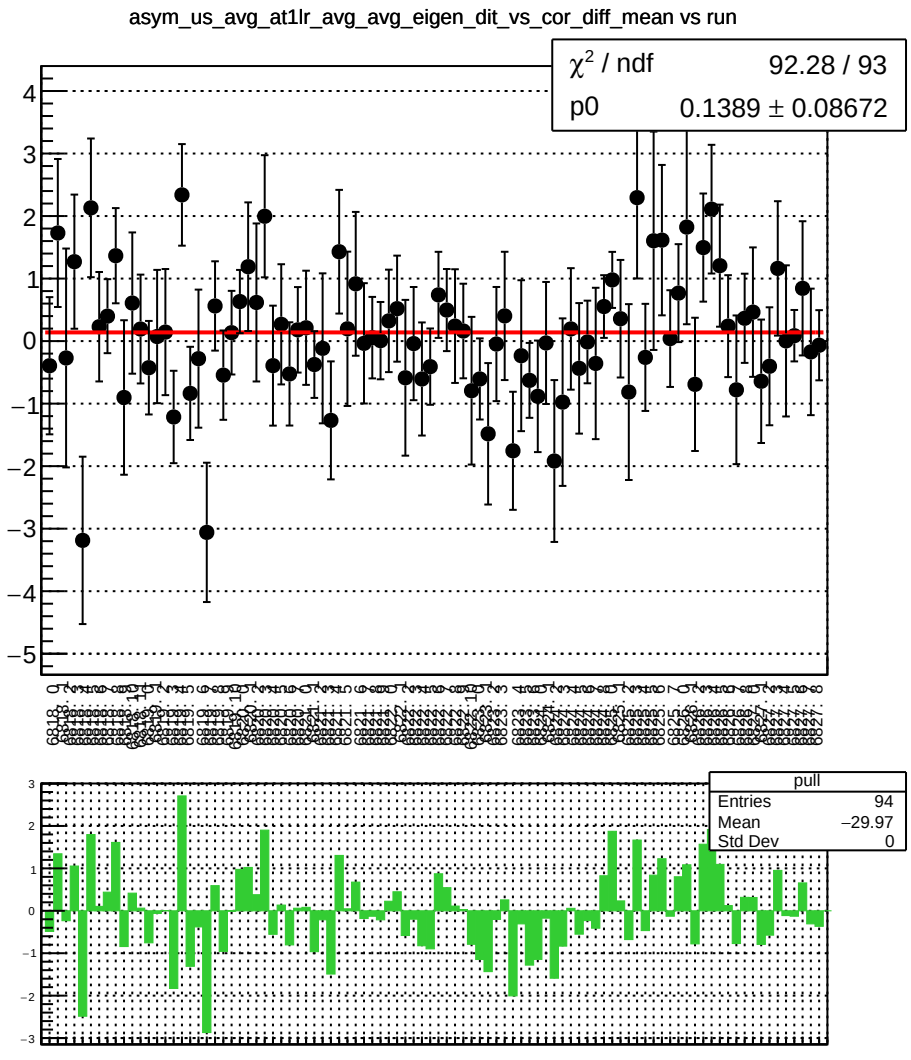

pull1D
Entries 94
Mean −0.01821
Std Dev 0.9907

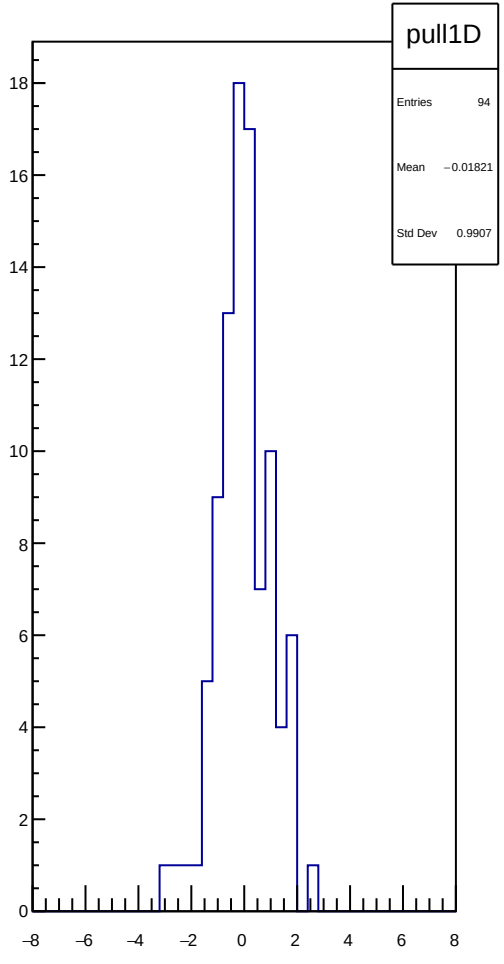

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.346e+05 / 93
p0 79.02 ± 0.06132
180
160
140
120
100
80
60
40

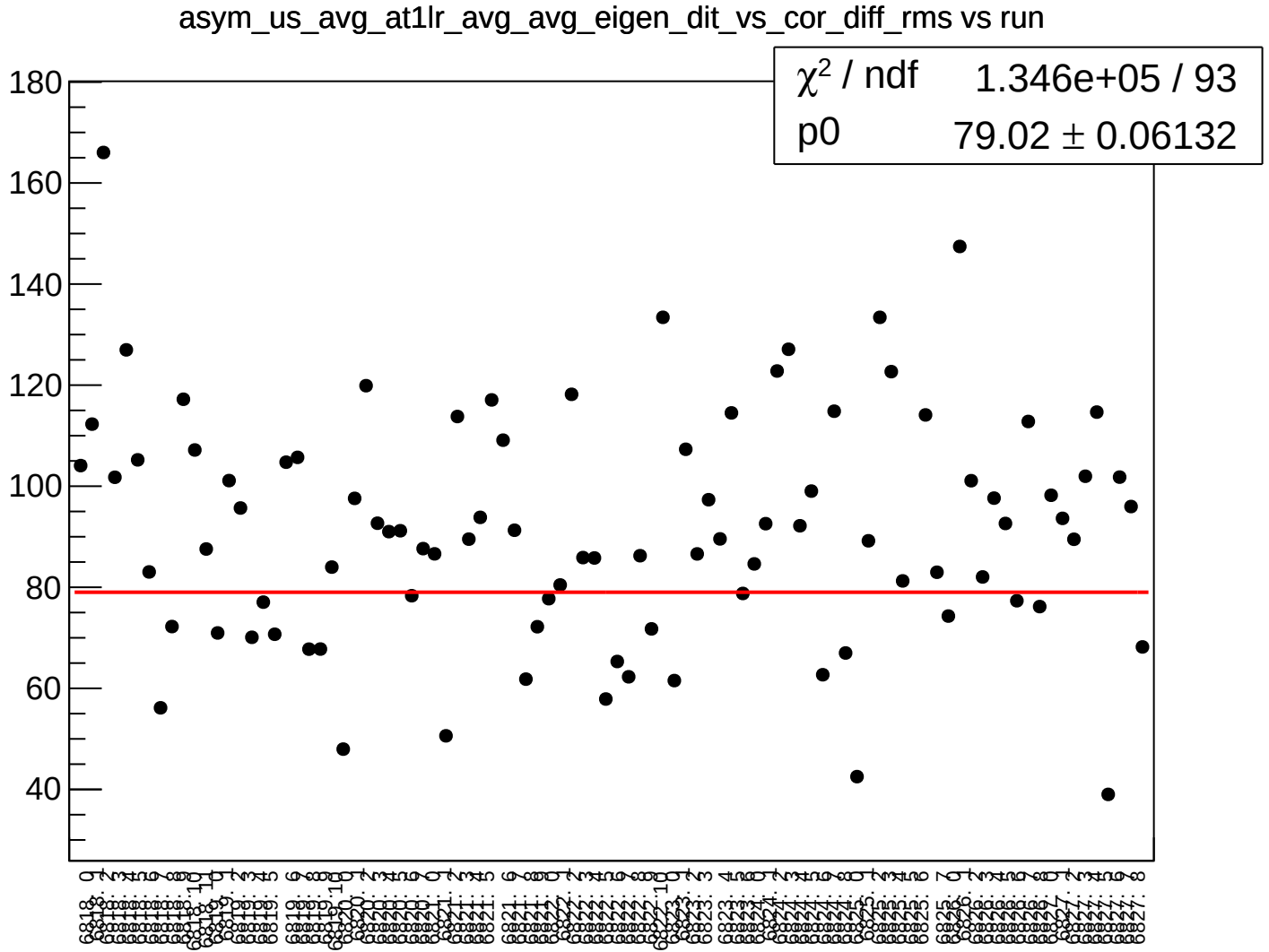

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.8 / 93
p0 −6.21e−06 ± 4.684e−06
pull
Entries 94
Mean −719.9
Std Dev 0

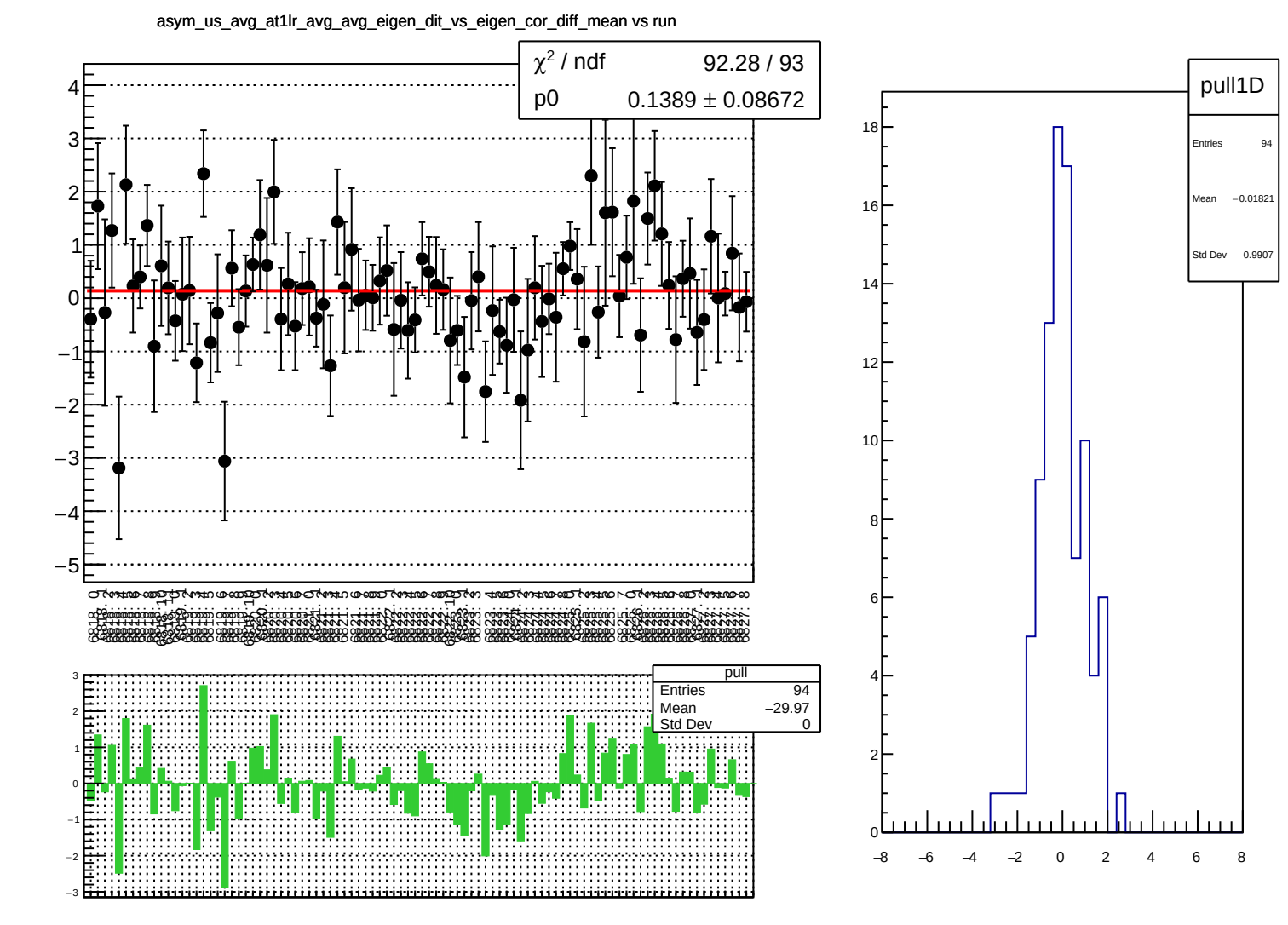

pull1D
Entries 94
Mean −0.003869
Std Dev 0.9828

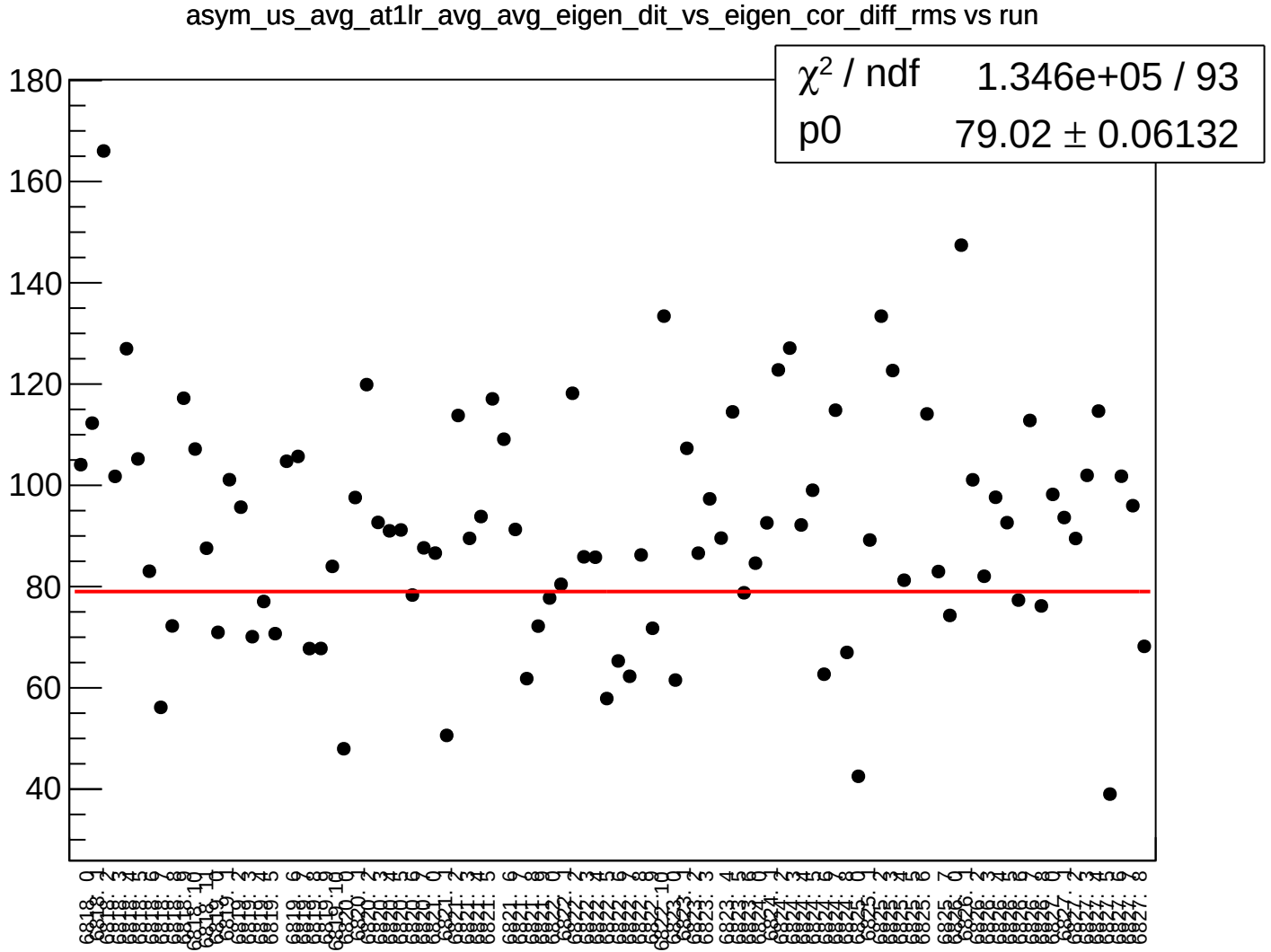

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3517 / 93
p0 0.004433 ± 3.312e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004

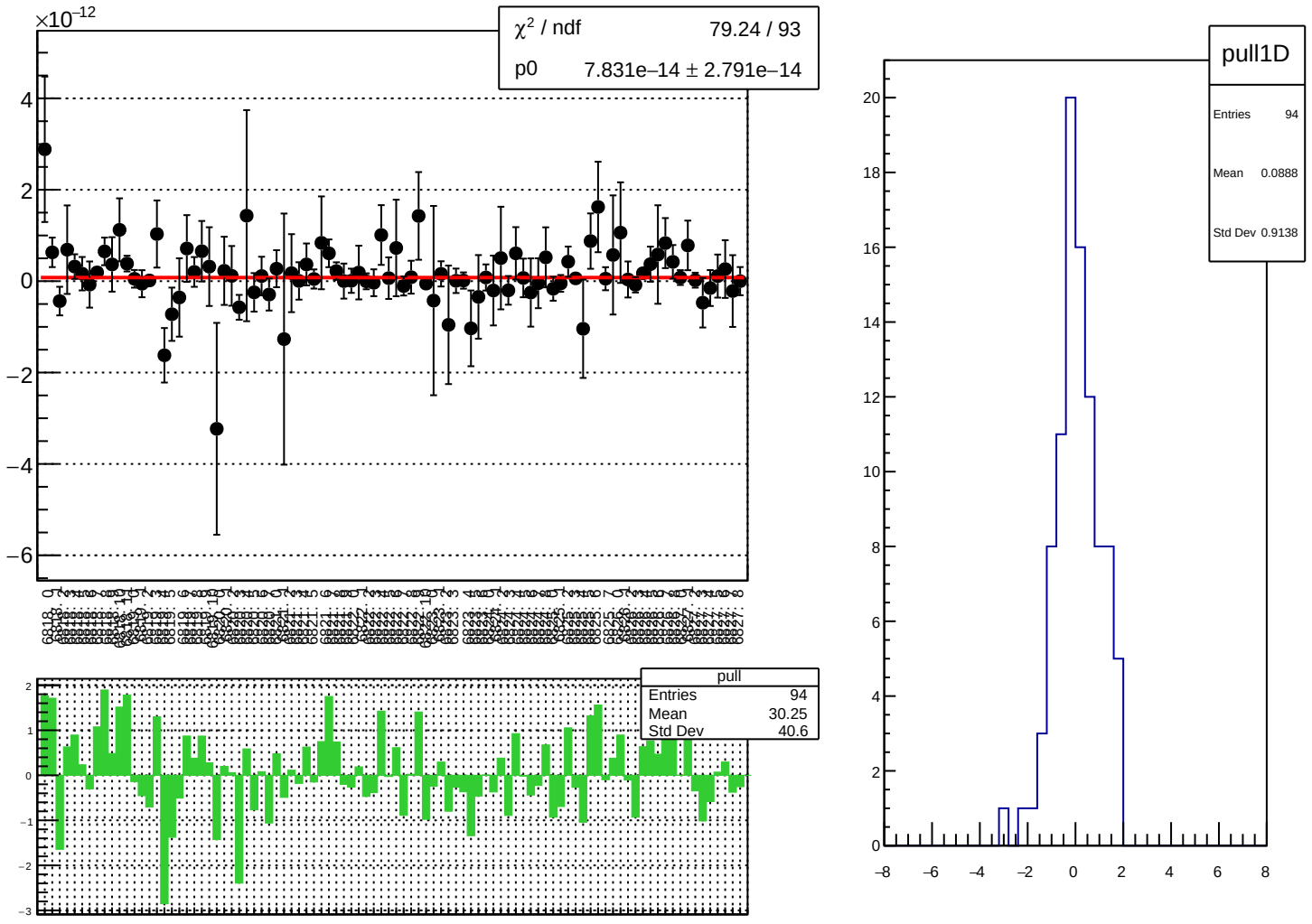

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.28 / 93
p0 0.1389 ± 0.08672
pull
Entries 94
Mean −29.97
Std Dev 0

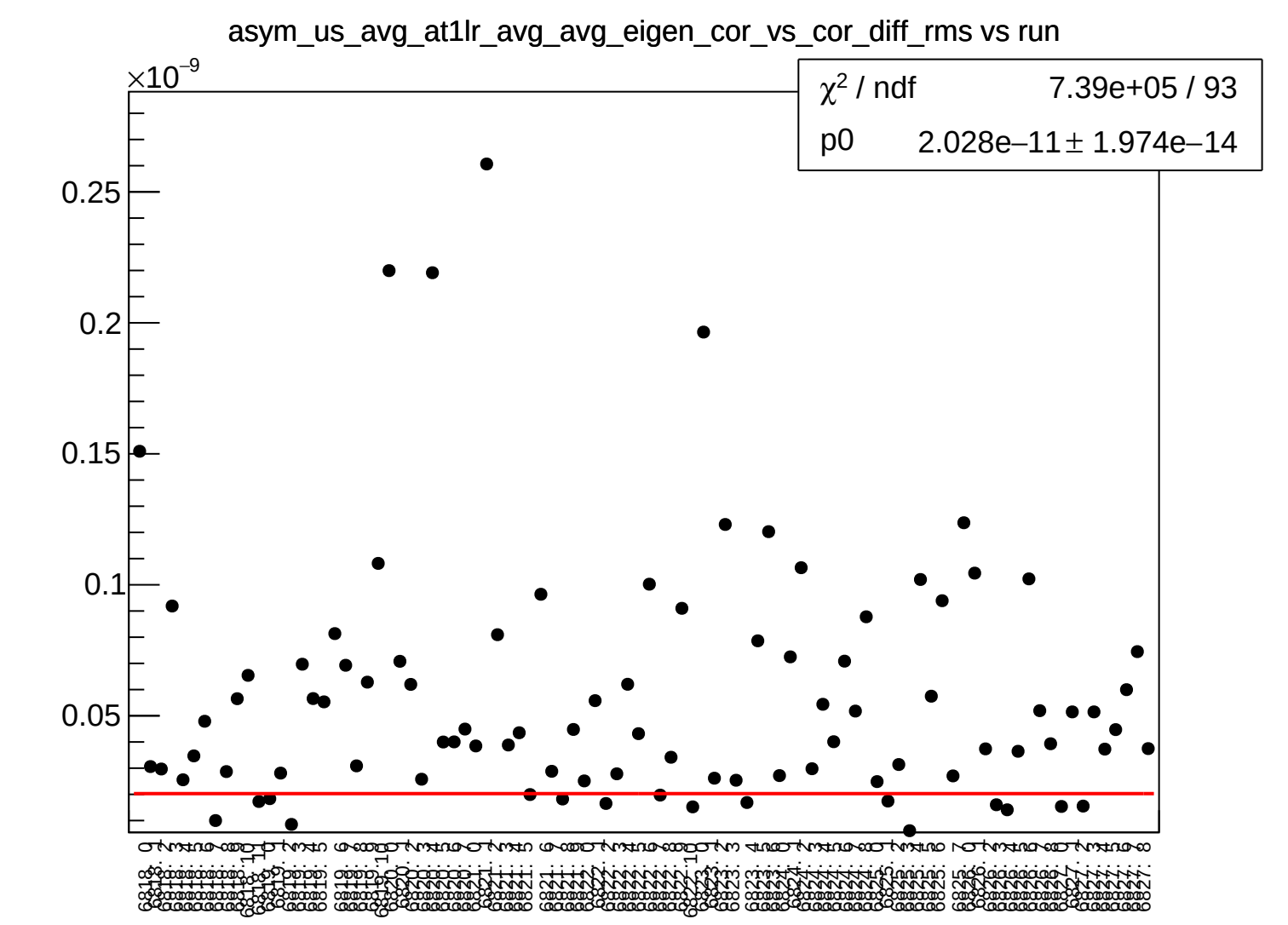

pull1D
Entries 94
Mean −0.01821
Std Dev 0.9907

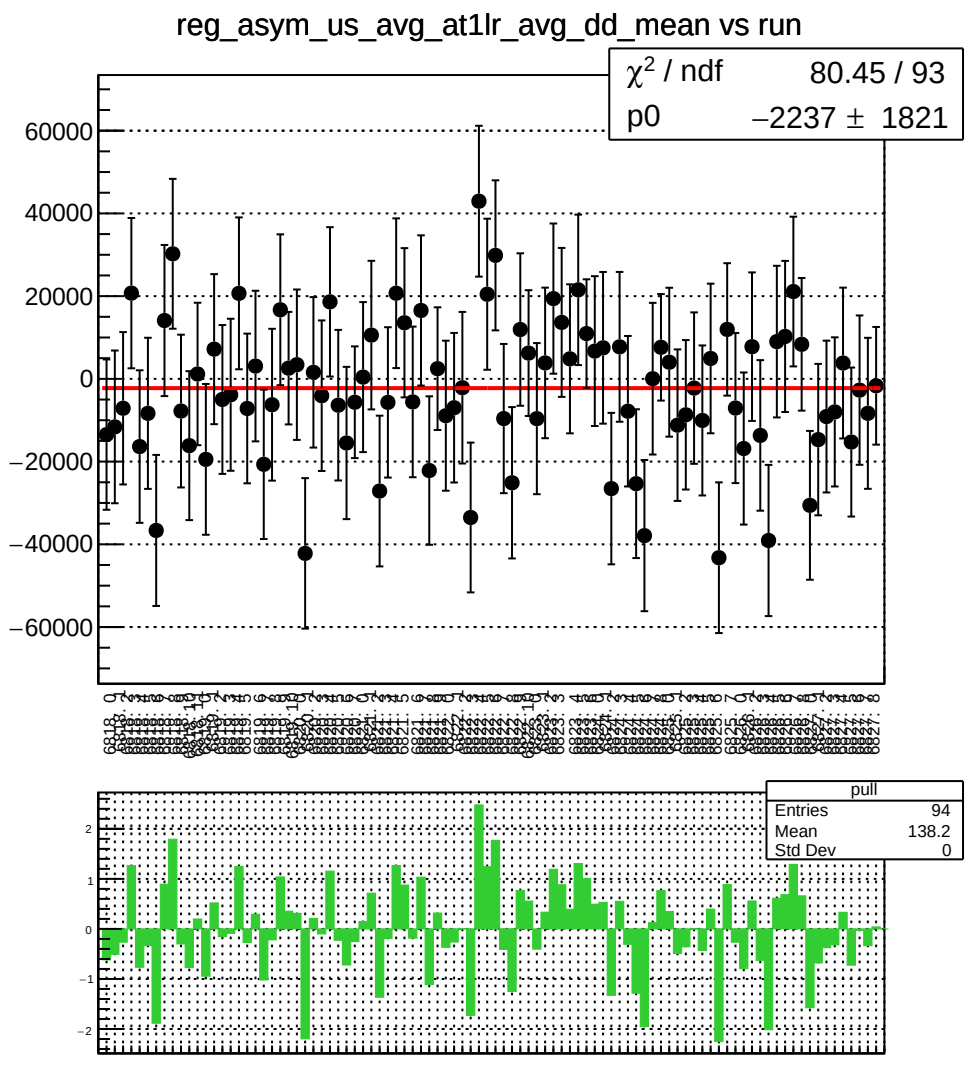

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.346e+05 / 93
p0 79.02 ± 0.06132
180
160
140
120
100
80
60
40

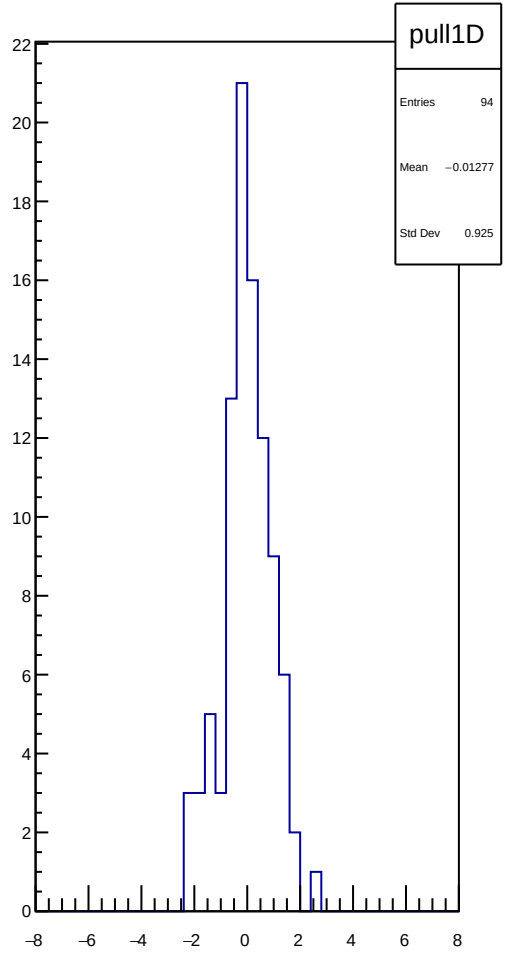

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.28 / 93
p0 0.1389 ± 0.08672
pull
Entries 94
Mean −29.97
Std Dev 0
pull1D
Entries 94
Mean −0.01821
Std Dev 0.9907

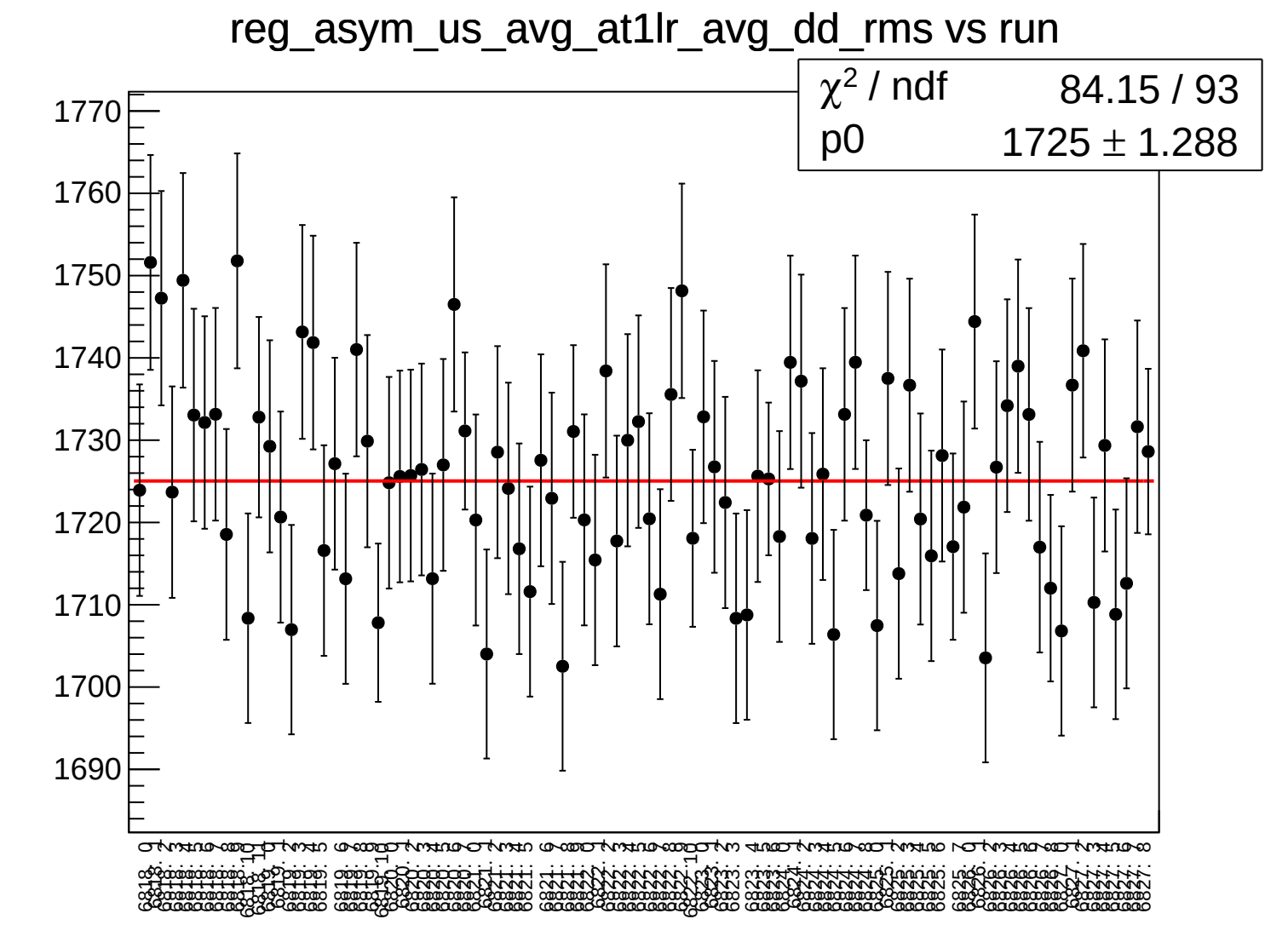

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.346e+05 / 93
p0 79.02 ± 0.06132
180
160
140
120
100
80
60
40

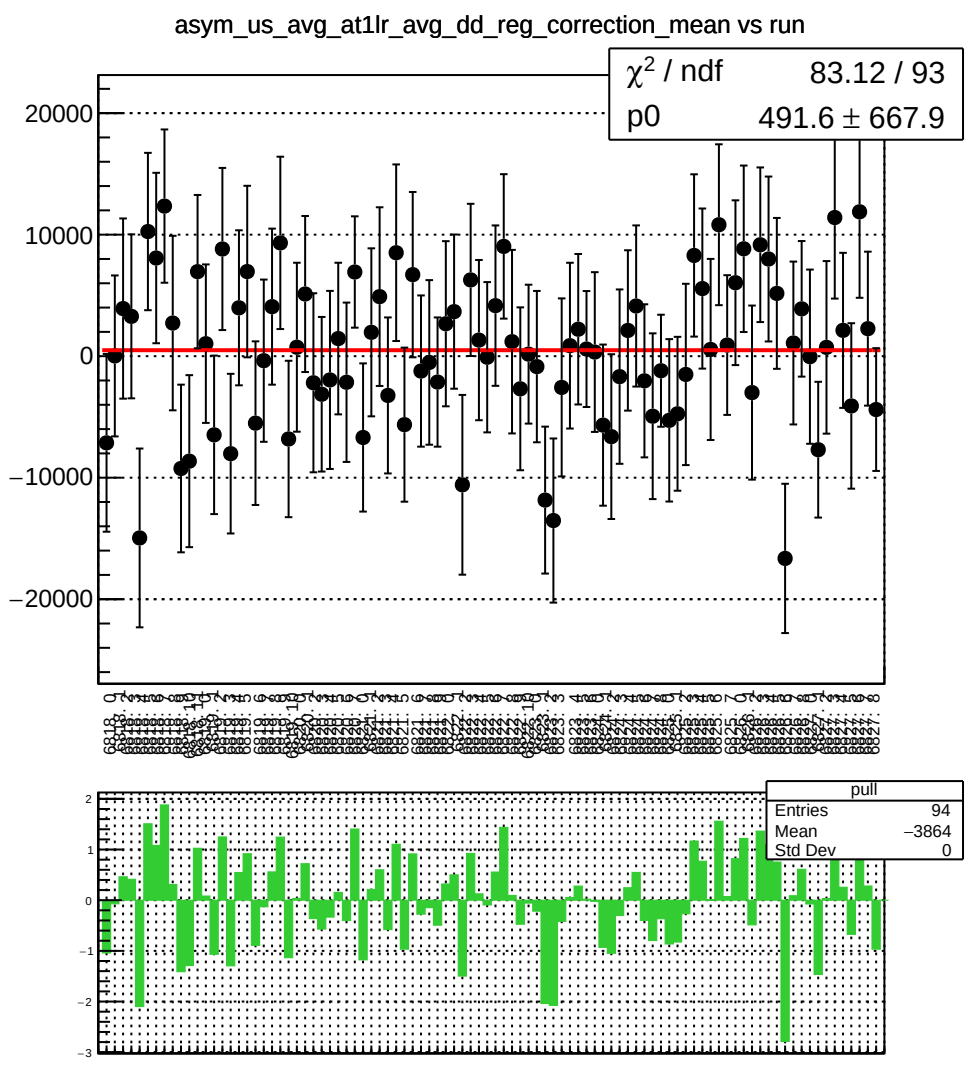

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.24 / 93
p0 7.831e−14 ± 2.791e−14
pull
Entries 94
Mean 30.25
Std Dev 40.6
pull1D
Entries 94
Mean 0.0888
Std Dev 0.9138

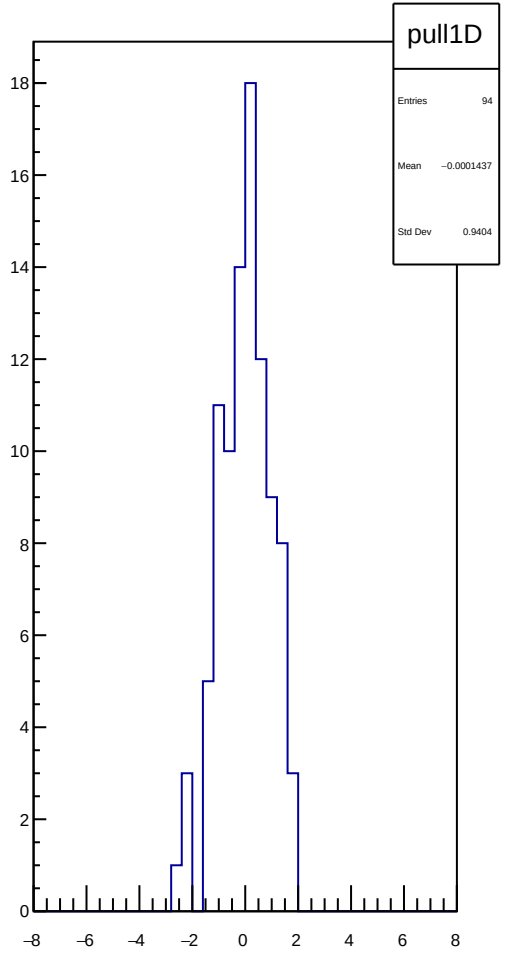

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.39e+05 / 93
p0 2.028e−11 ± 1.974e−14
0.25
0.2
0.15
0.1
0.05

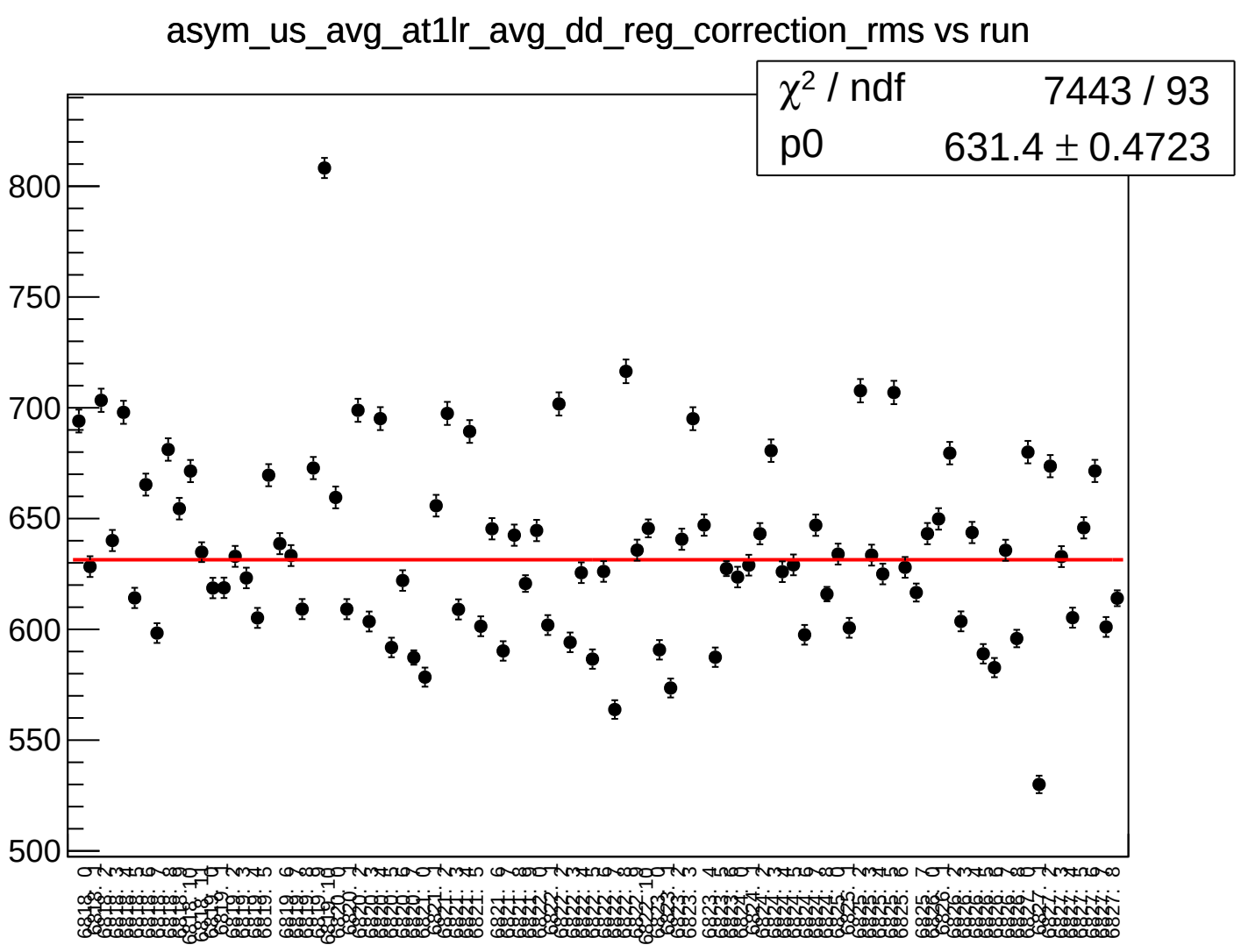

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.45 / 93
p0 −2237 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 138.2
Std Dev 0
2
1
0
−1
−2

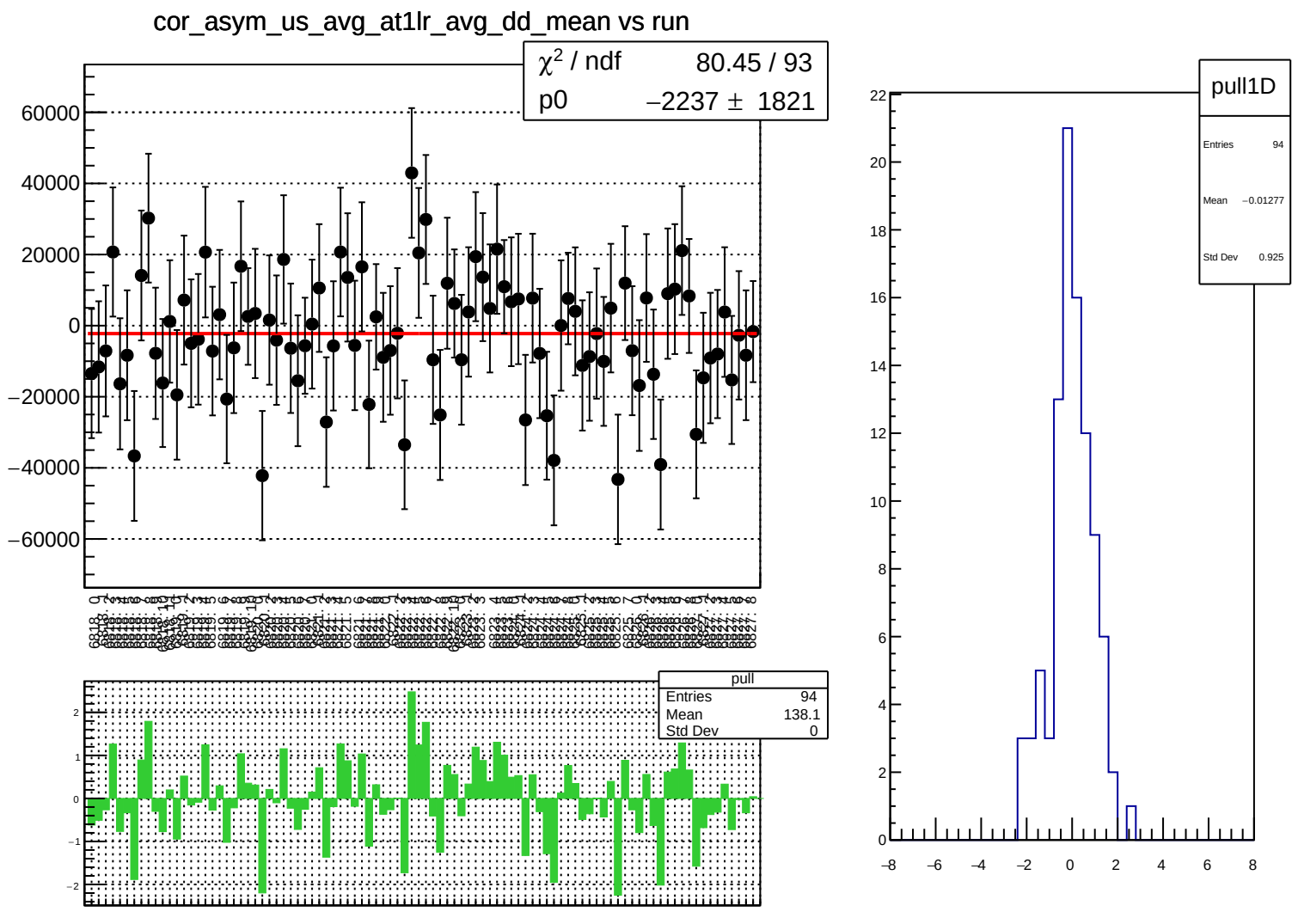

pull1D
Entries 94
Mean −0.01277
Std Dev 0.925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

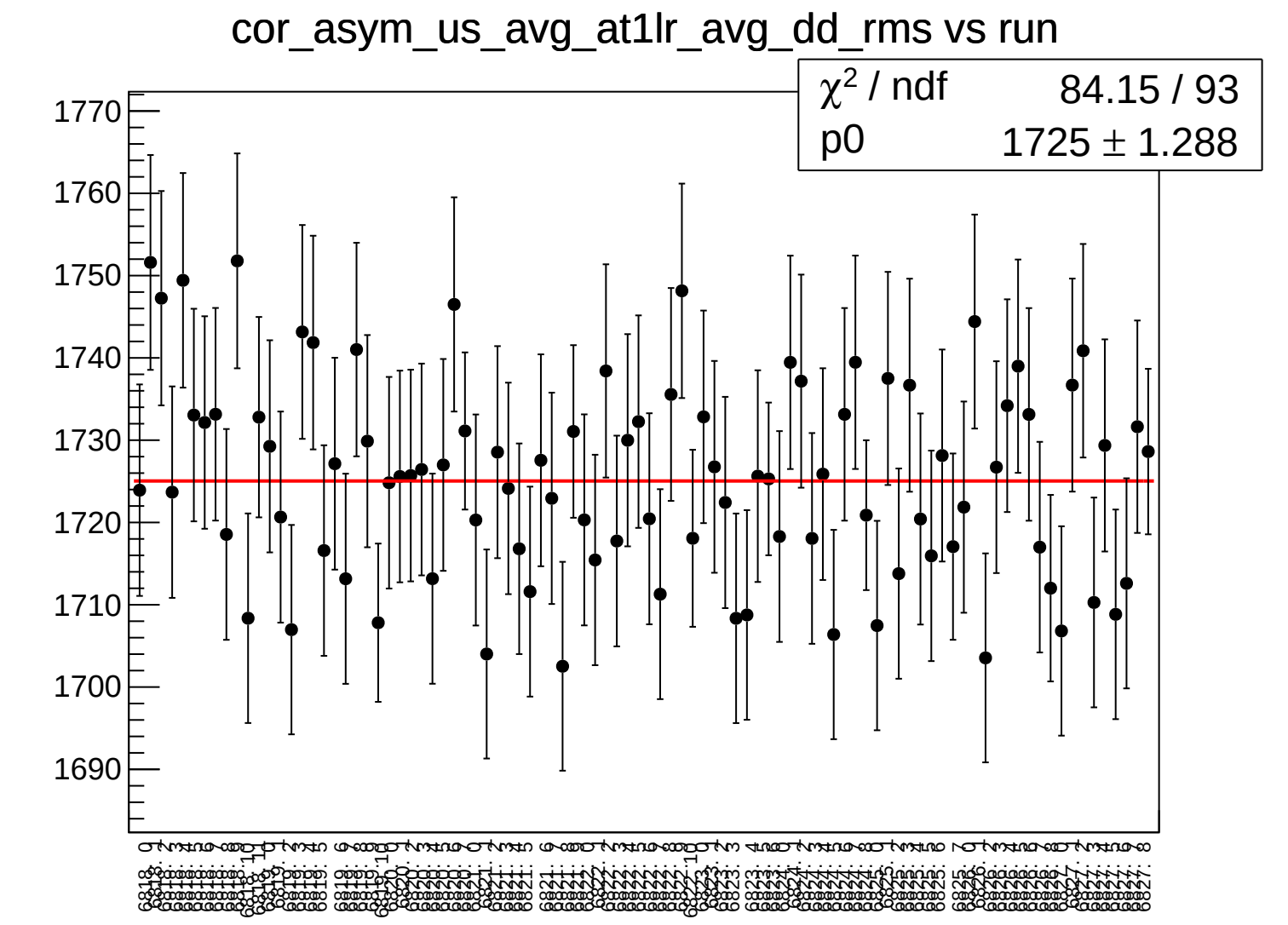

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.15 / 93
p0 1725 ± 1.288
1770
1760
1750
1740
1730
1720
1710
1700
1690

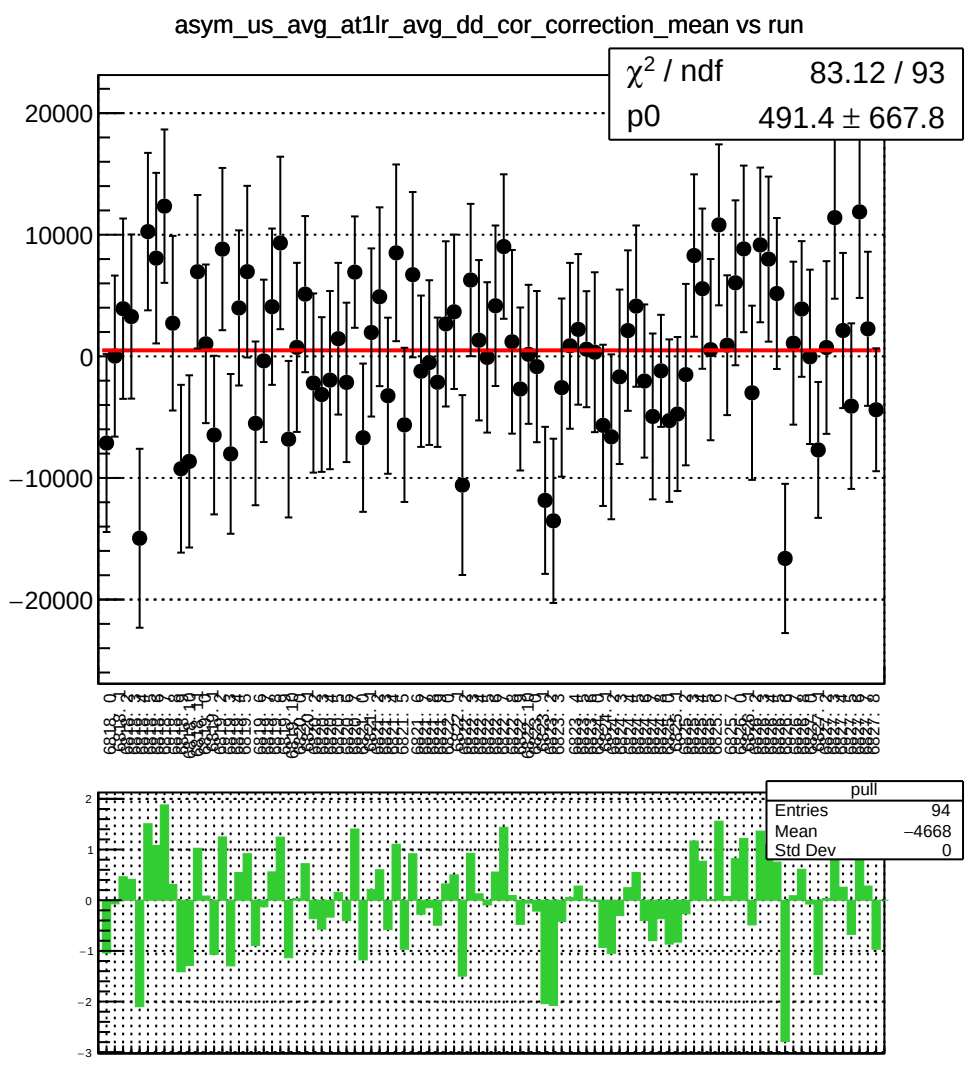

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 83.12 / 93
p0 491.6 ± 667.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −3864
Std Dev 0
2
1
0
−1
−2
−3

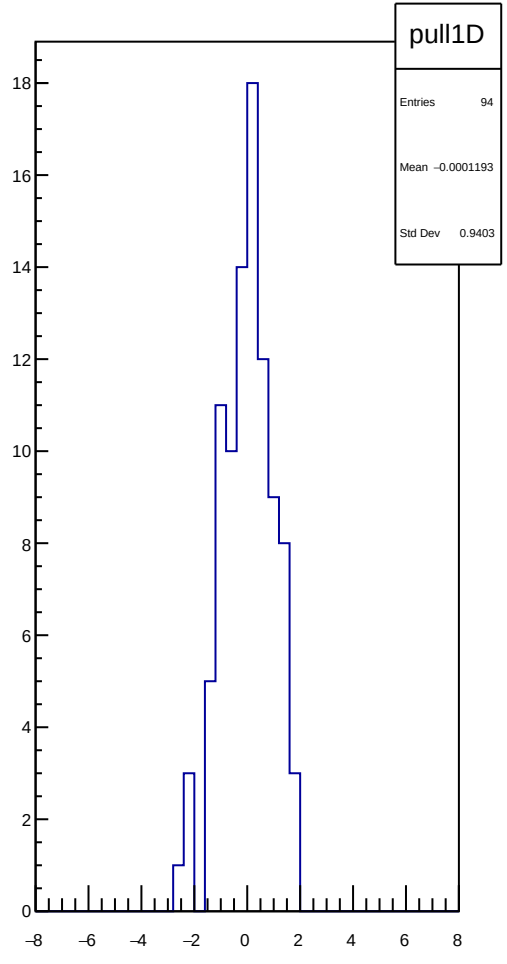

pull1D
Entries 94
Mean −0.0001437
Std Dev 0.9404
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

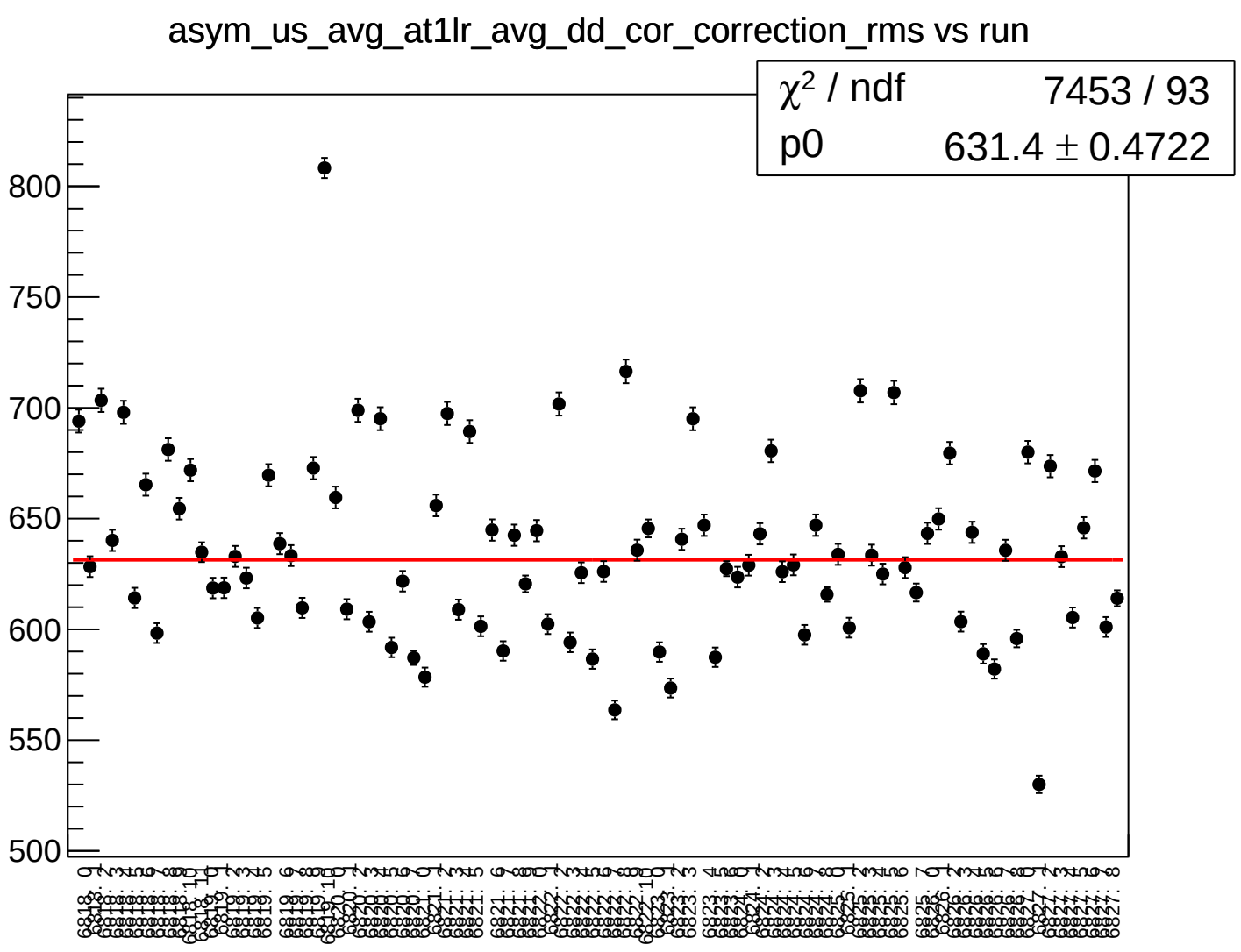

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 7443 / 93
p0 631.4 ± 0.4723
800
750
700
650
600
550
500

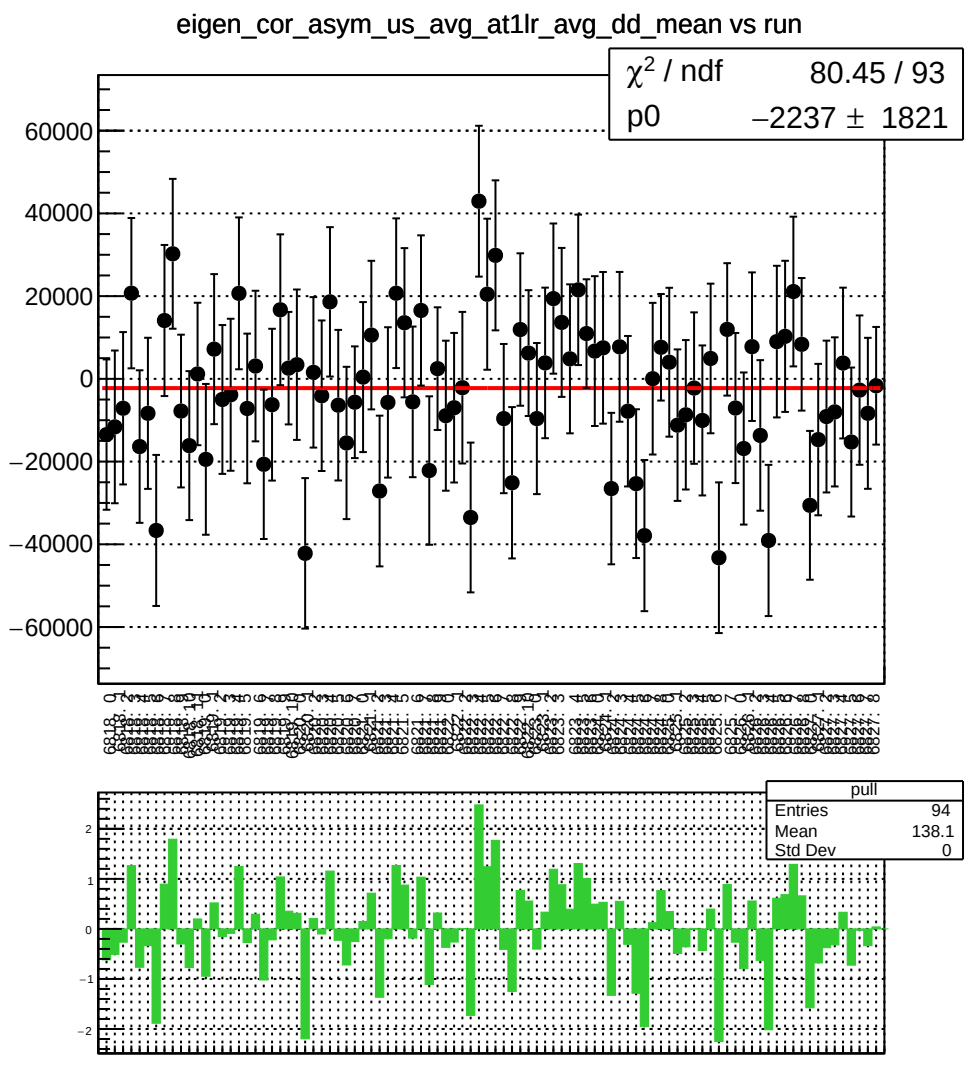

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.45 / 93
p0 −2237 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 138.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01277
Std Dev 0.925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

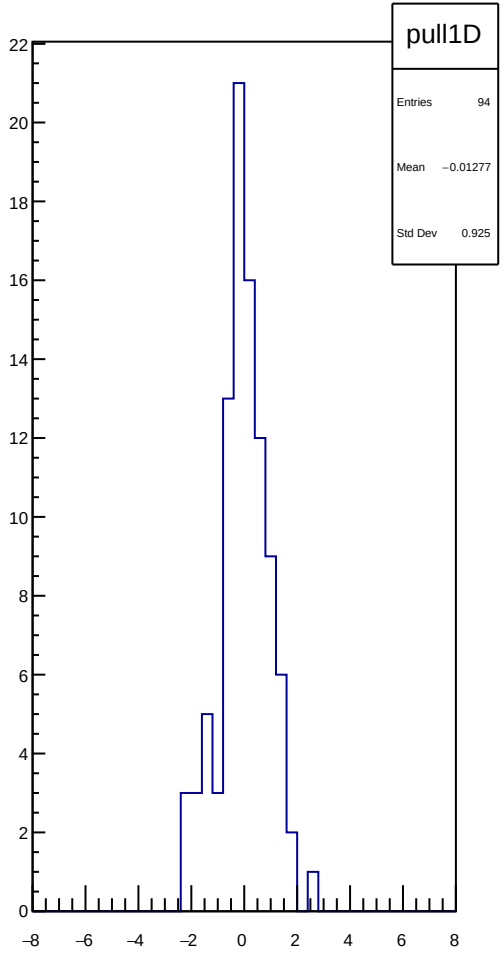

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 84.15 / 93
p0 1725 ± 1.288
1770
1760
1750
1740
1730
1720
1710
1700
1690

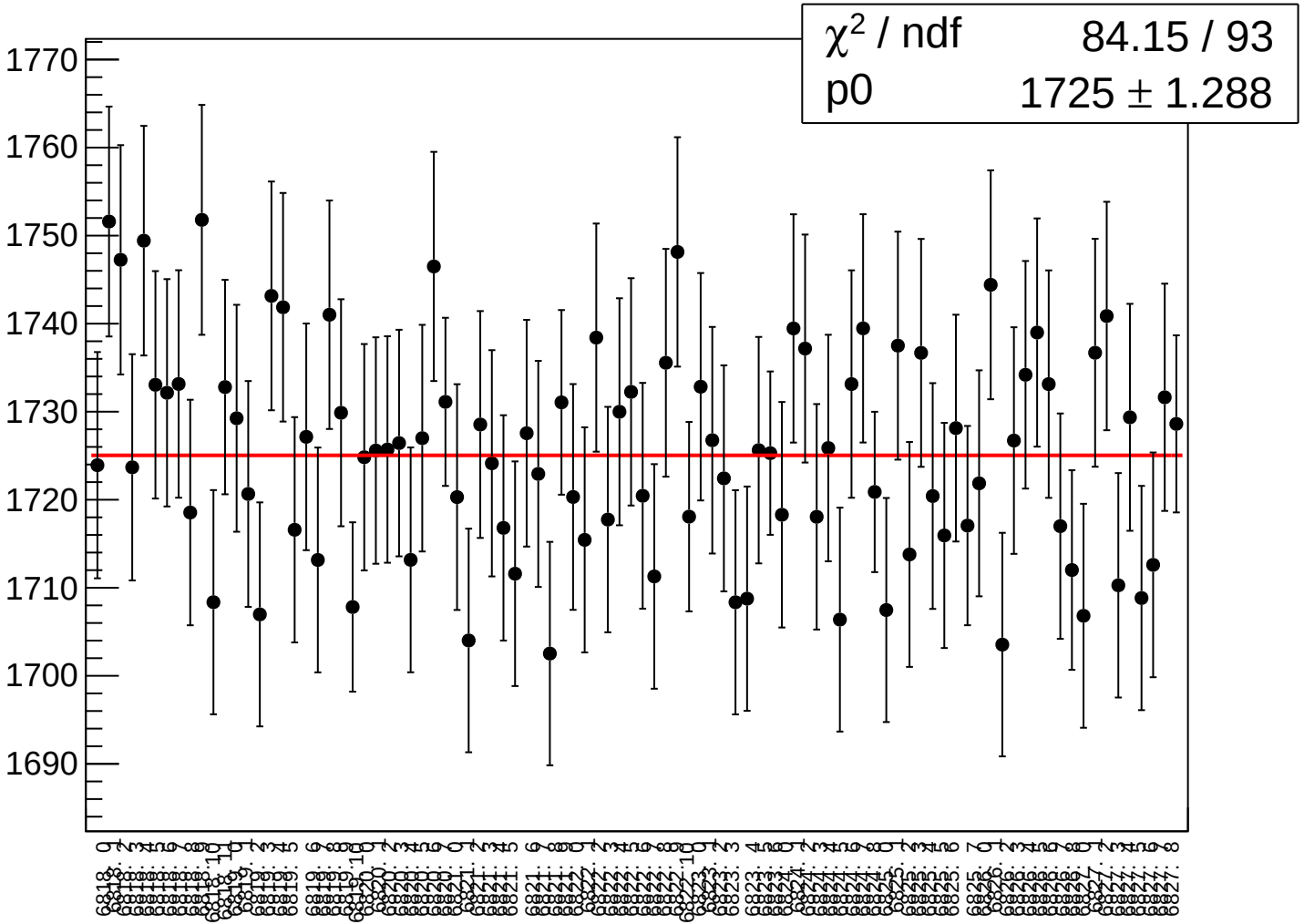

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 83.12 / 93
p0 491.4 ± 667.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −4668
Std Dev 0
2
1
0
−1
−2
−3

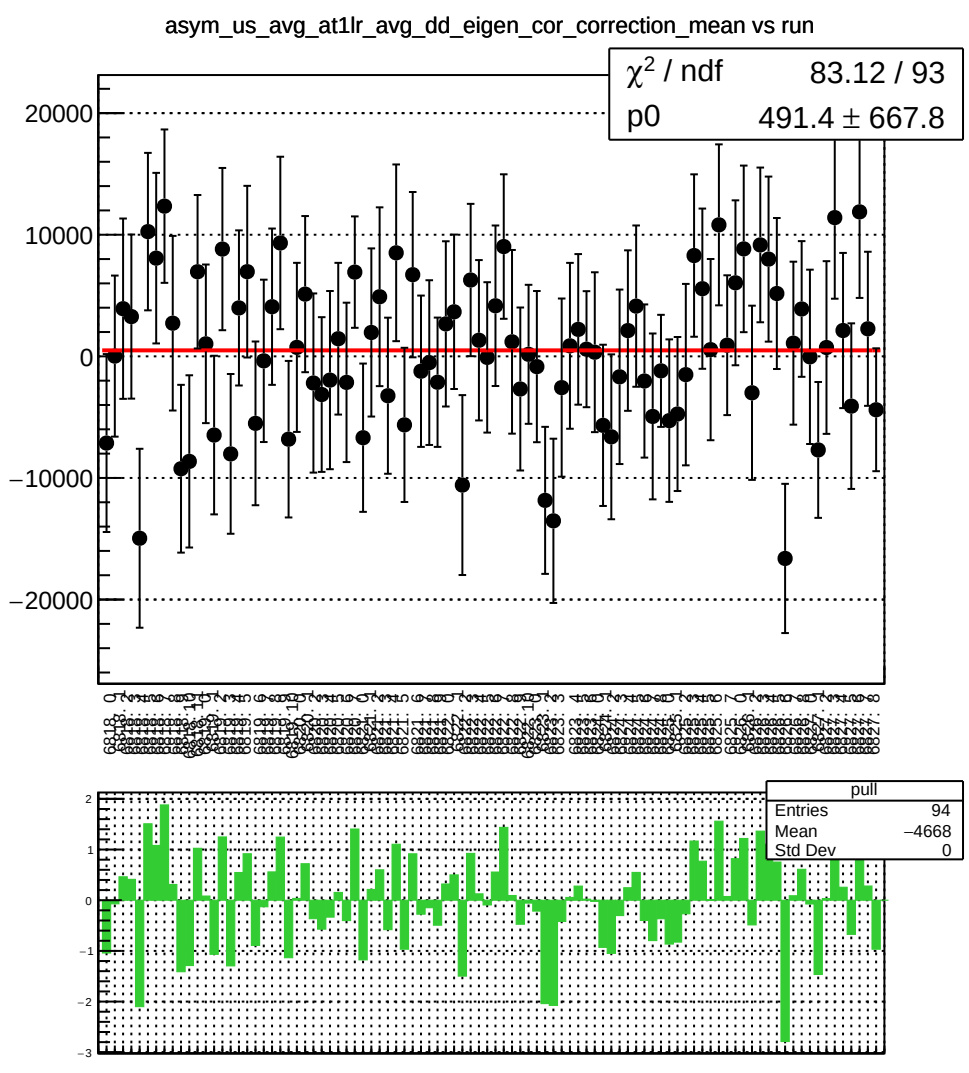

pull1D
Entries 94
Mean −0.0001193
Std Dev 0.9403
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

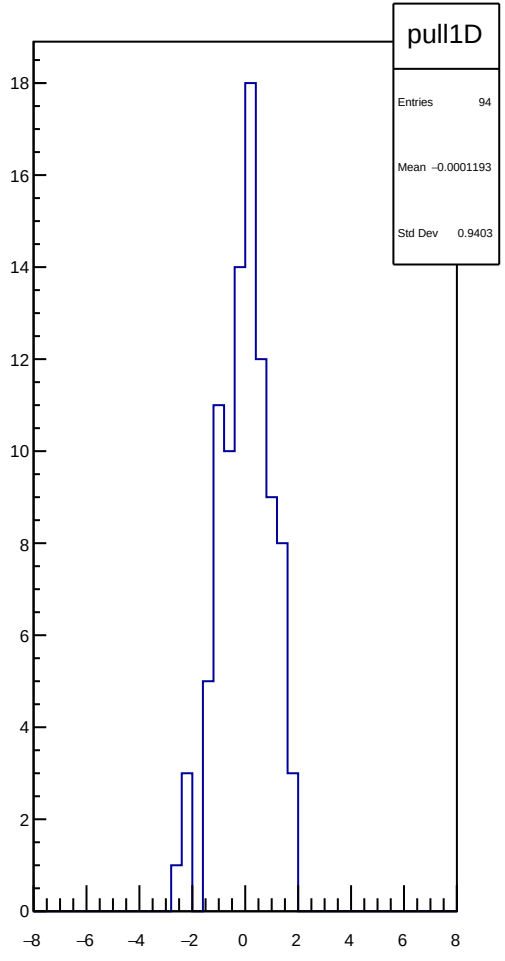

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 7453 / 93
p0 631.4 ± 0.4722
800
750
700
650
600
550
500

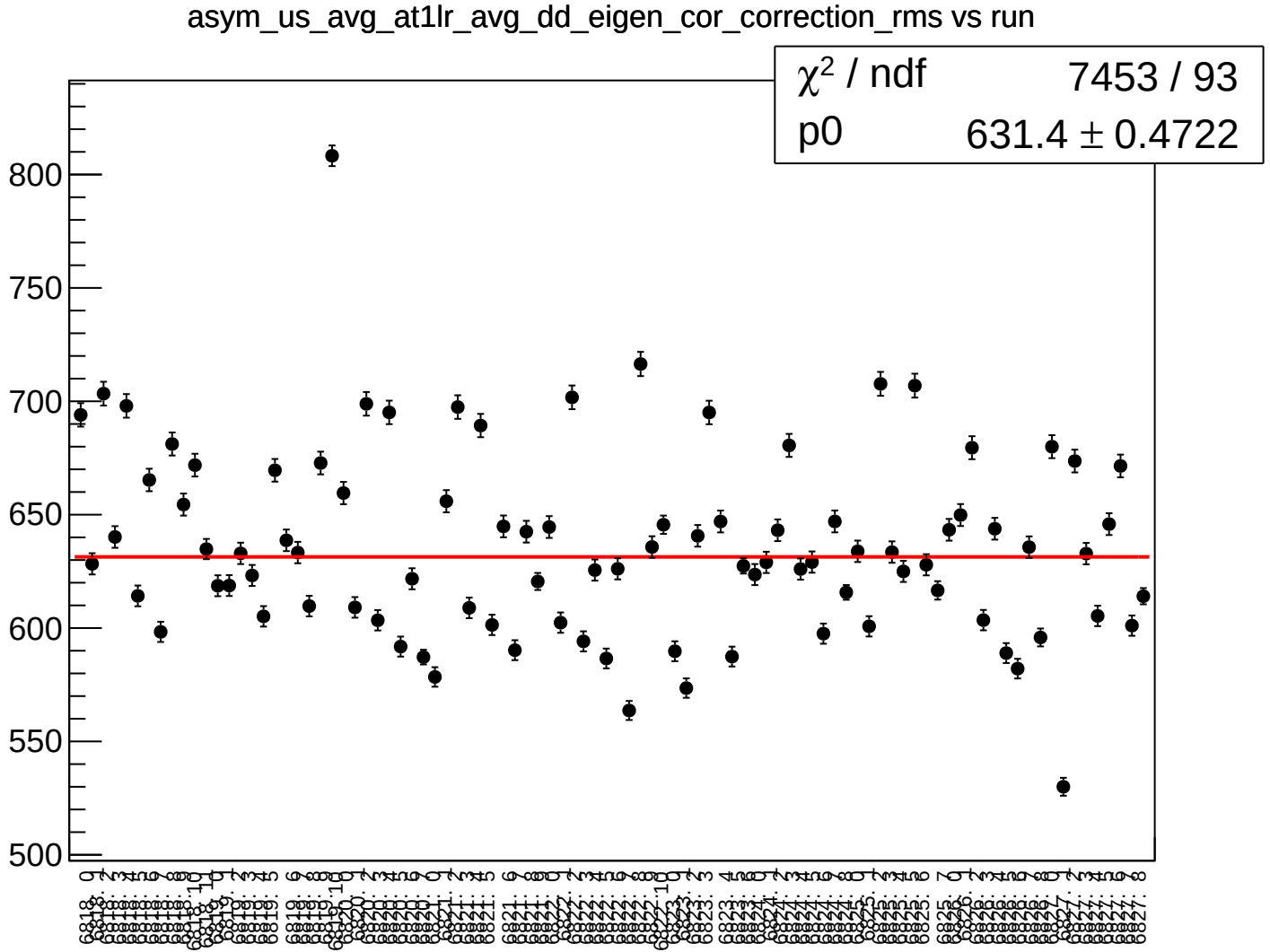

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.45 / 93
p0 −2237 ± 1821
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 138.1
Std Dev 0
2
1
0
−1
−2

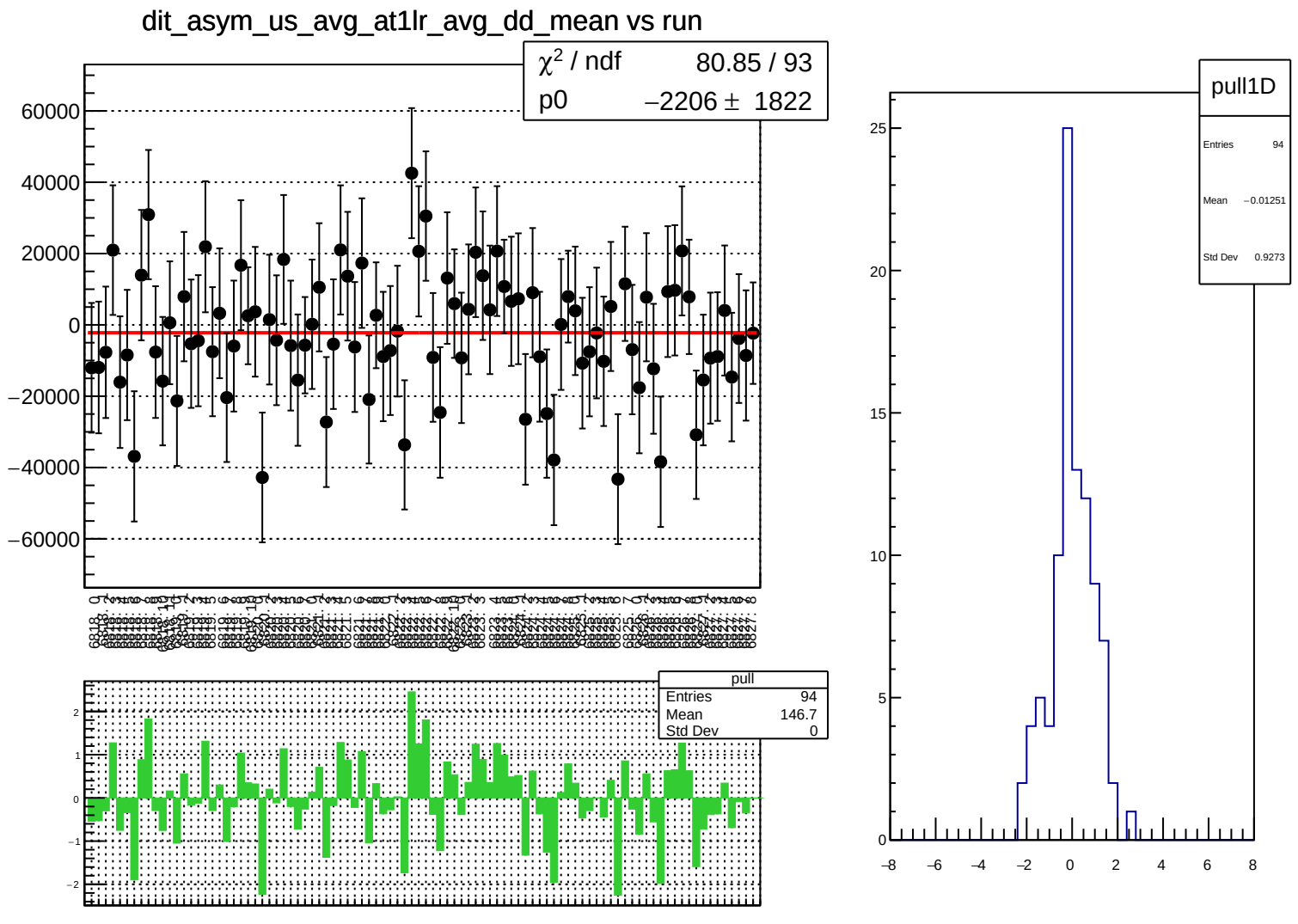

pull1D
Entries 94
Mean −0.01277
Std Dev 0.925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

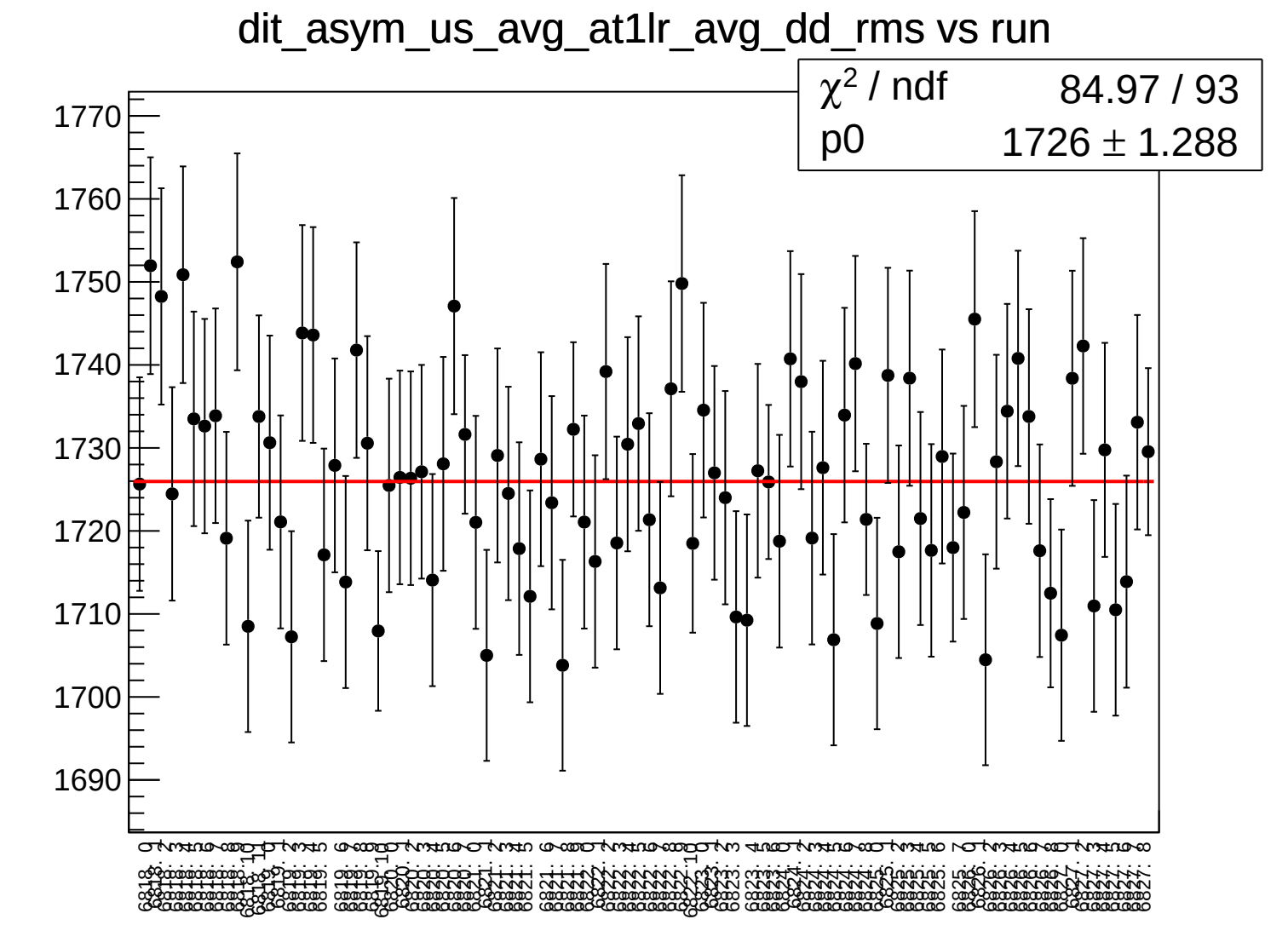

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.15 / 93
p0 1725 ± 1.288
1770
1760
1750
1740
1730
1720
1710
1700
1690

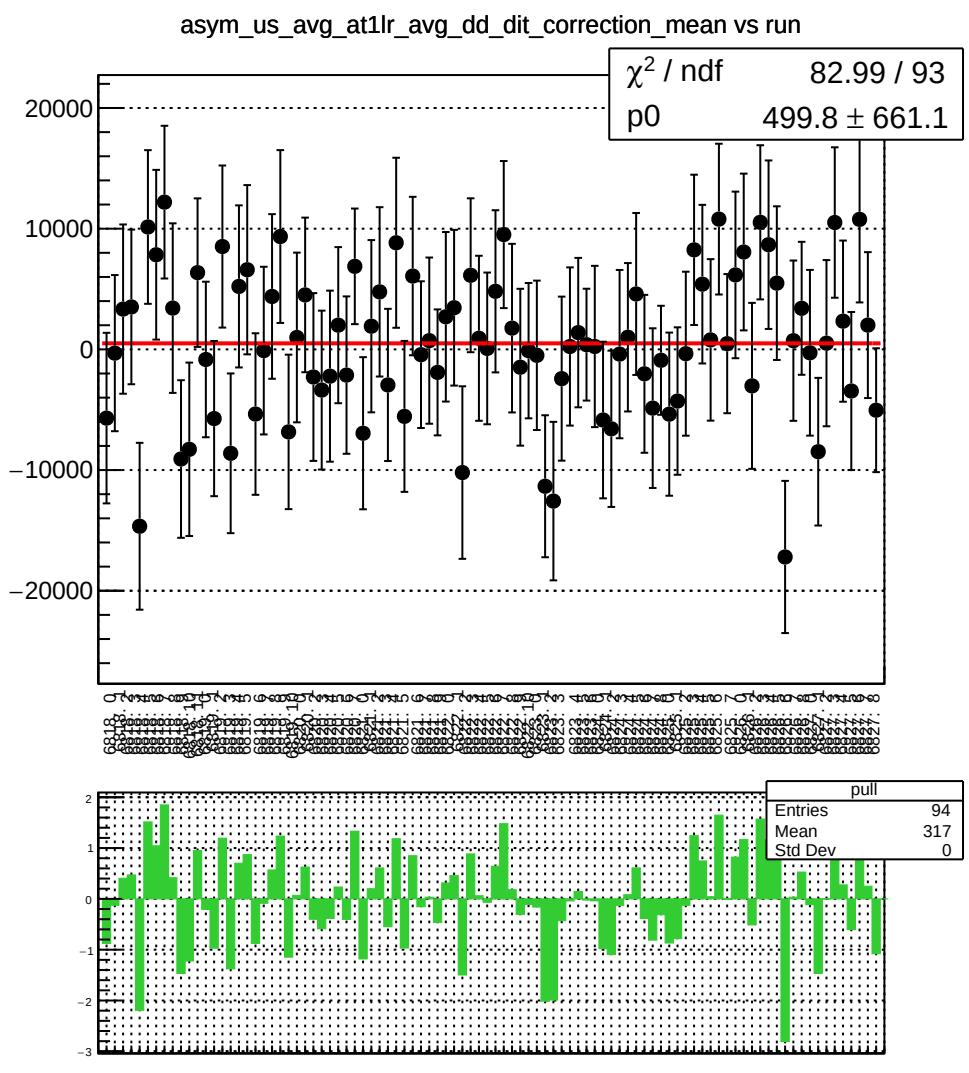

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.12 / 93
p0 491.4 ± 667.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −4668
Std Dev 0
2
1
0
−1
−2
−3

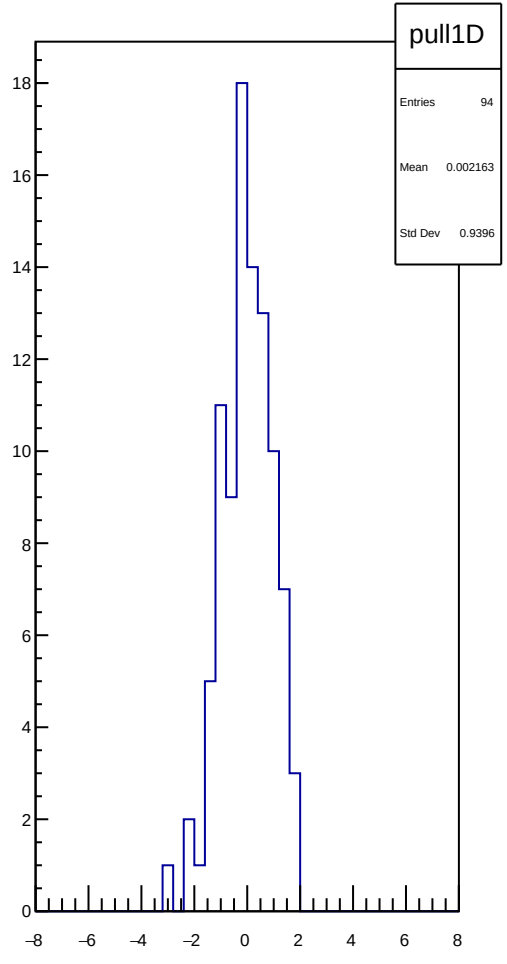

pull1D
Entries 94
Mean −0.0001193
Std Dev 0.9403
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

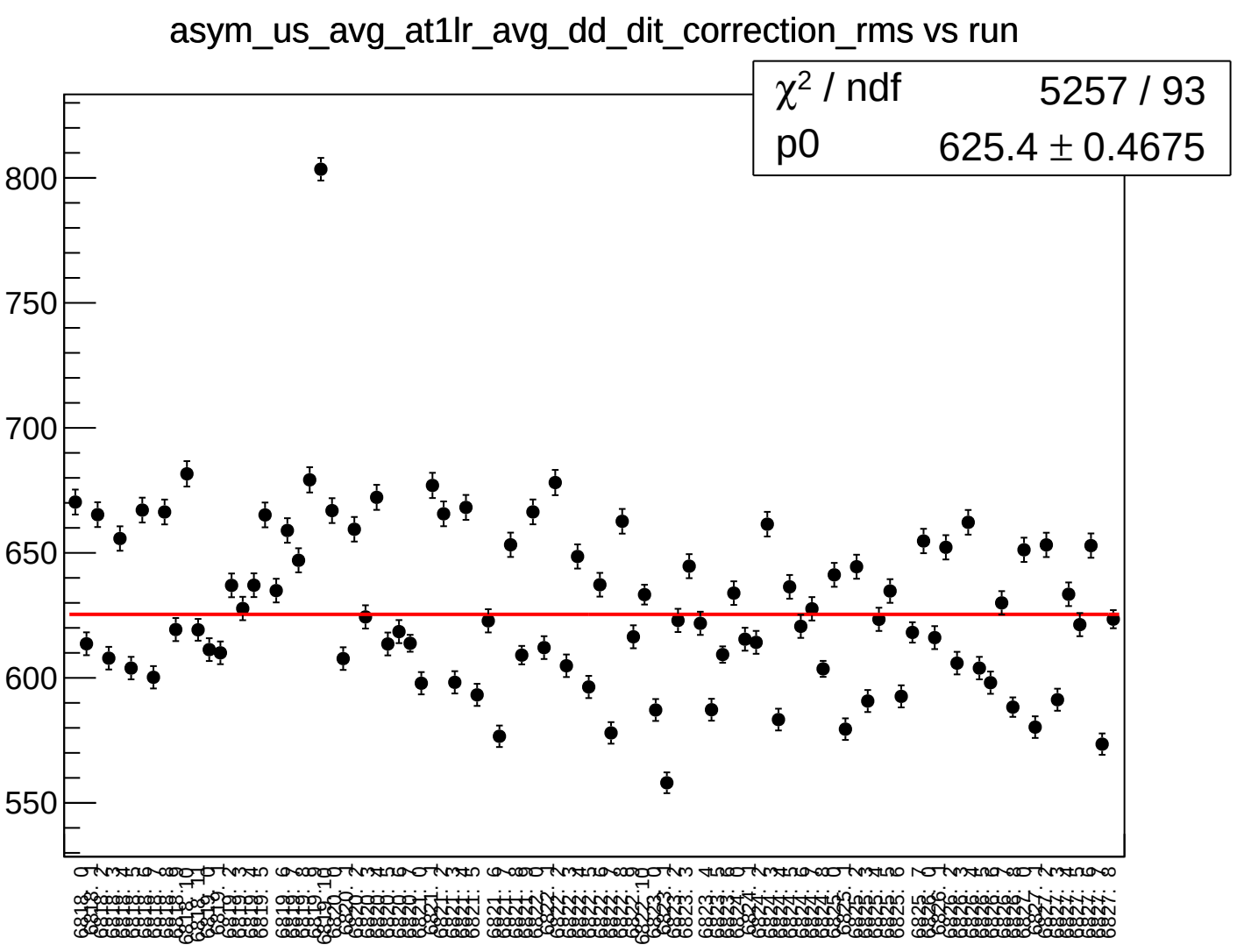

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7453 / 93
p0 631.4 ± 0.4722
800
750
700
650
600
550
500

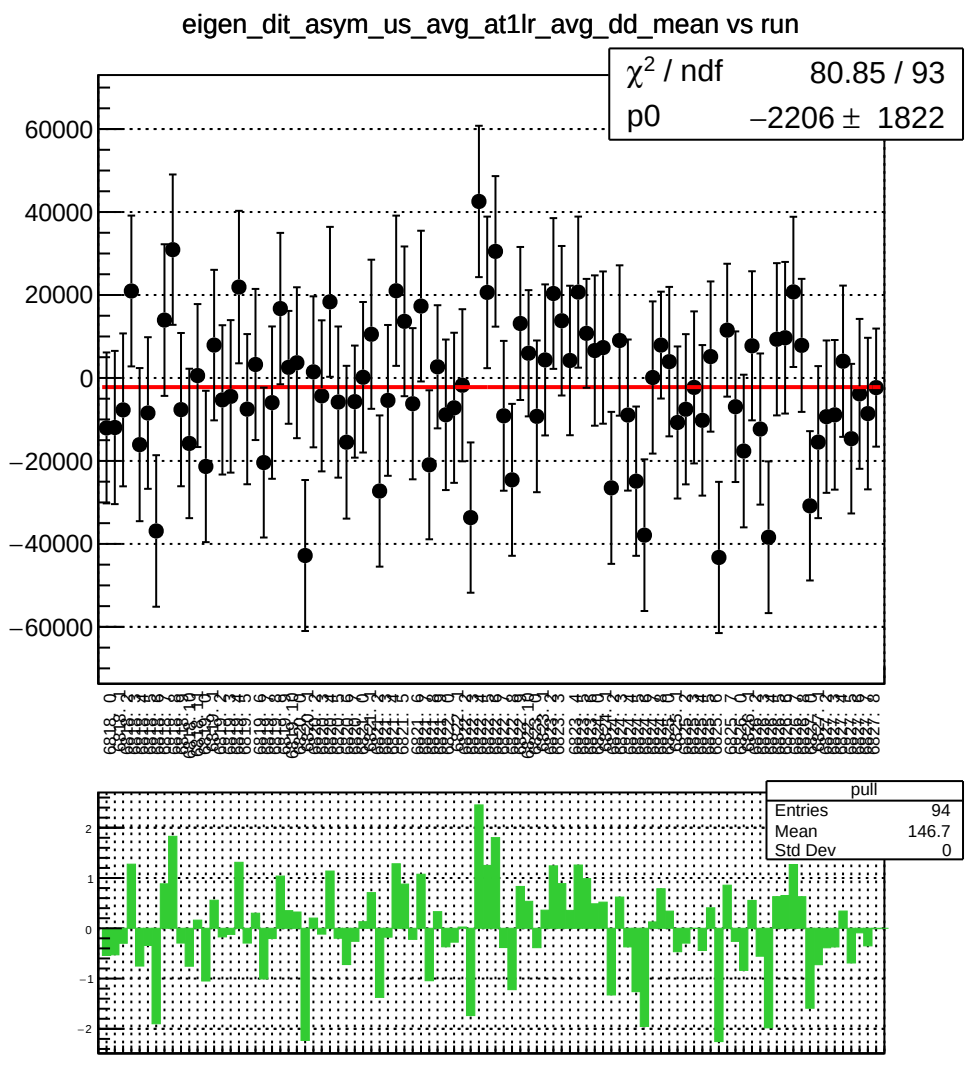

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.85 / 93
p0 −2206 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 146.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01251
Std Dev 0.9273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

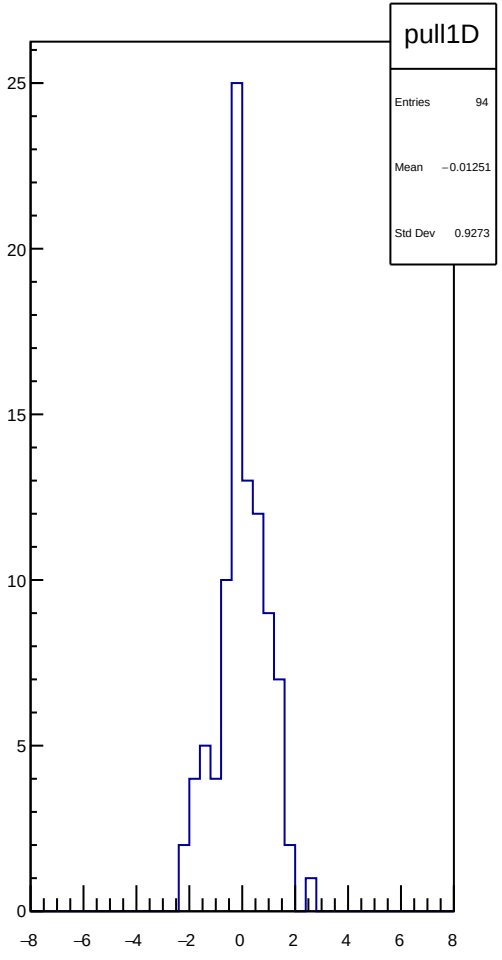

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 84.97 / 93
p0 1726 ± 1.288
1770
1760
1750
1740
1730
1720
1710
1700
1690

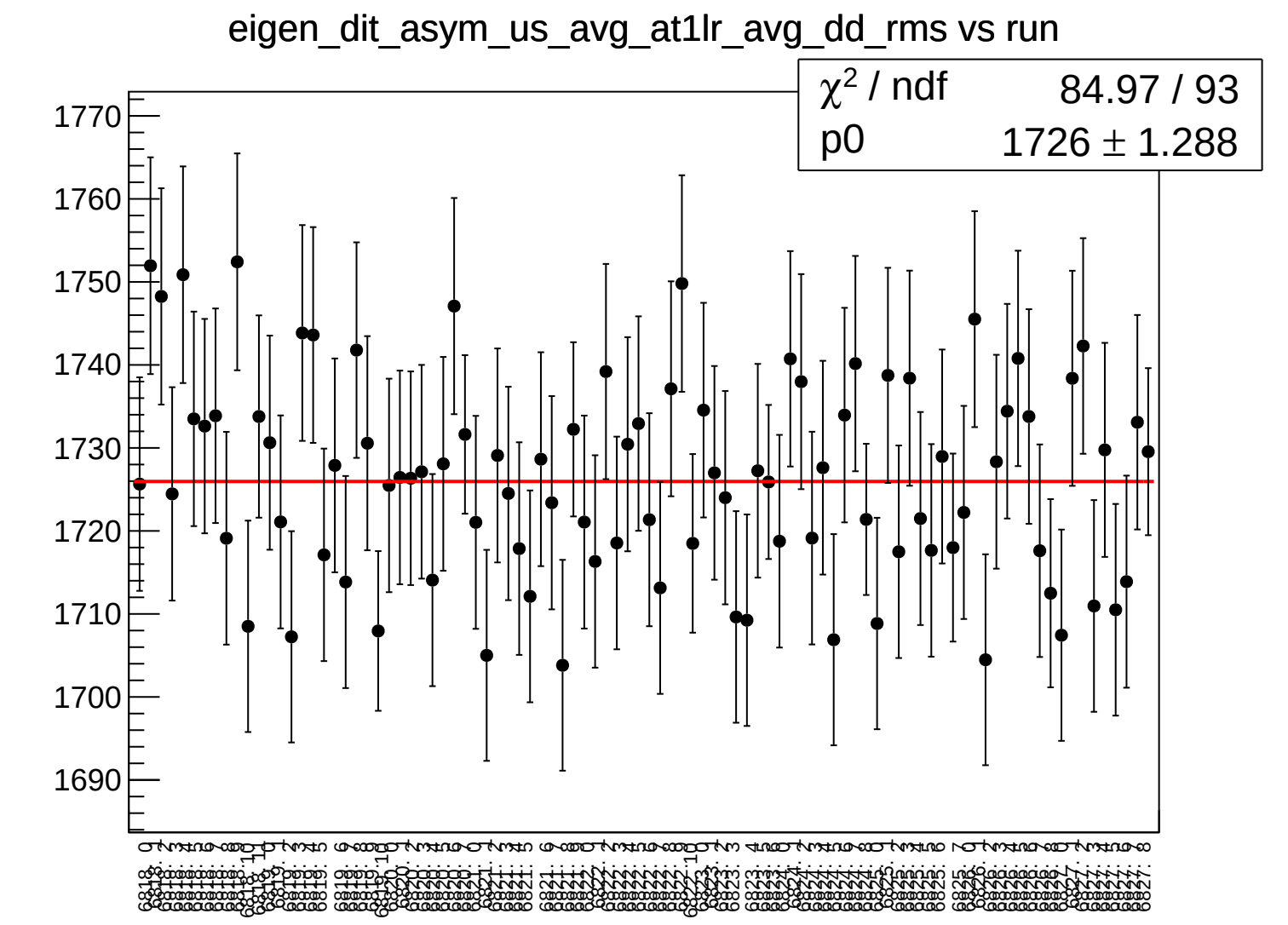

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 82.99 / 93
p0 499.8 ± 661.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 317
Std Dev 0
2
1
0
−1
−2
−3

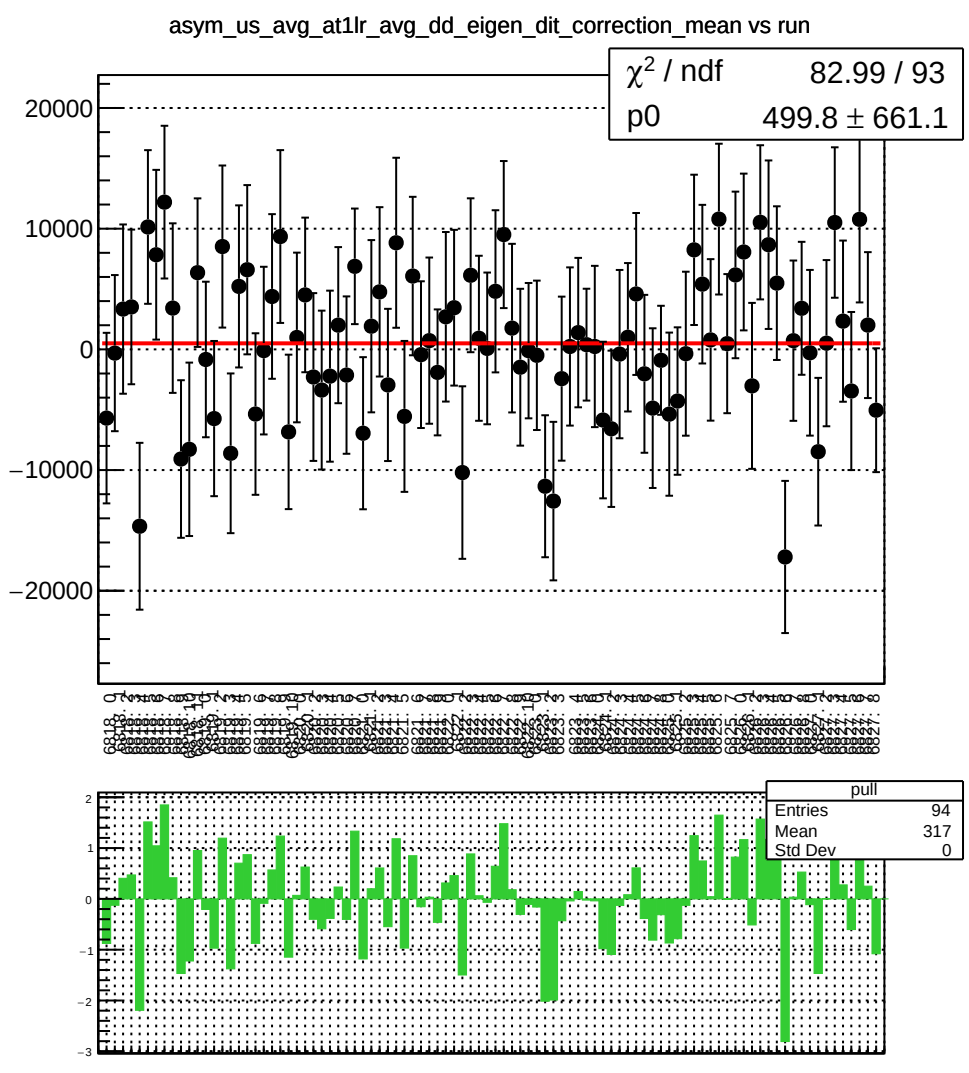

pull1D
Entries 94
Mean 0.002163
Std Dev 0.9396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

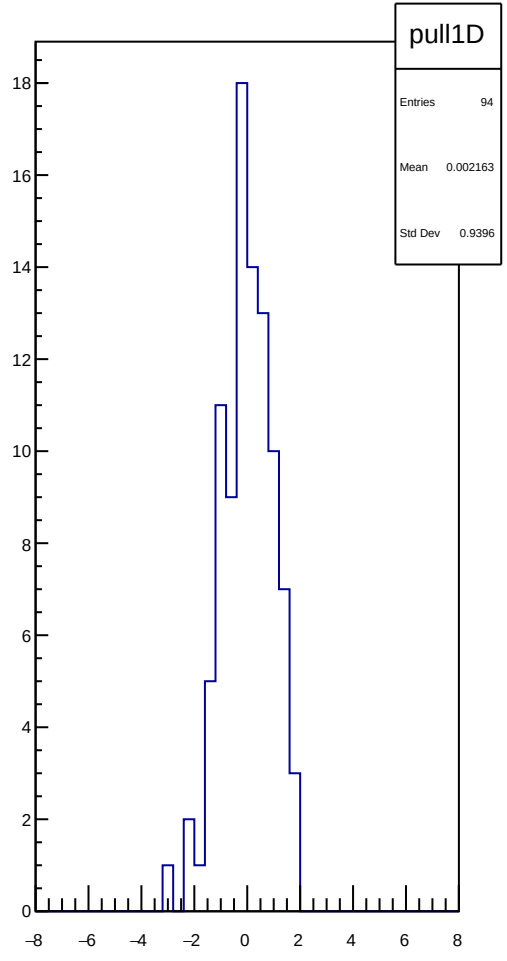

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 5257 / 93
p0 625.4 ± 0.4675
800
750
700
650
600
550

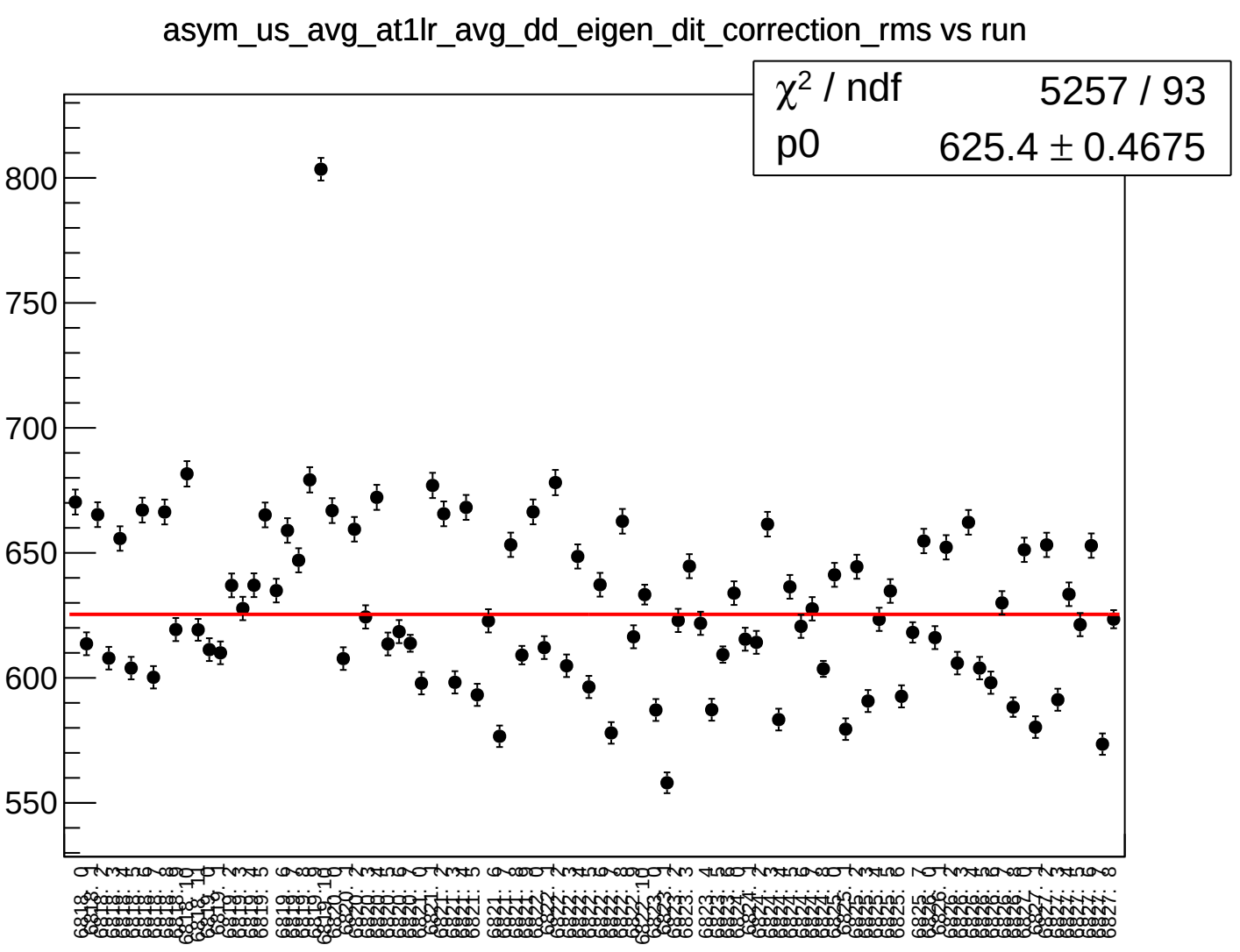

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 80.85 / 93
p0 −2206 ± 1822
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 146.7
Std Dev 0
2
1
0
−1
−2

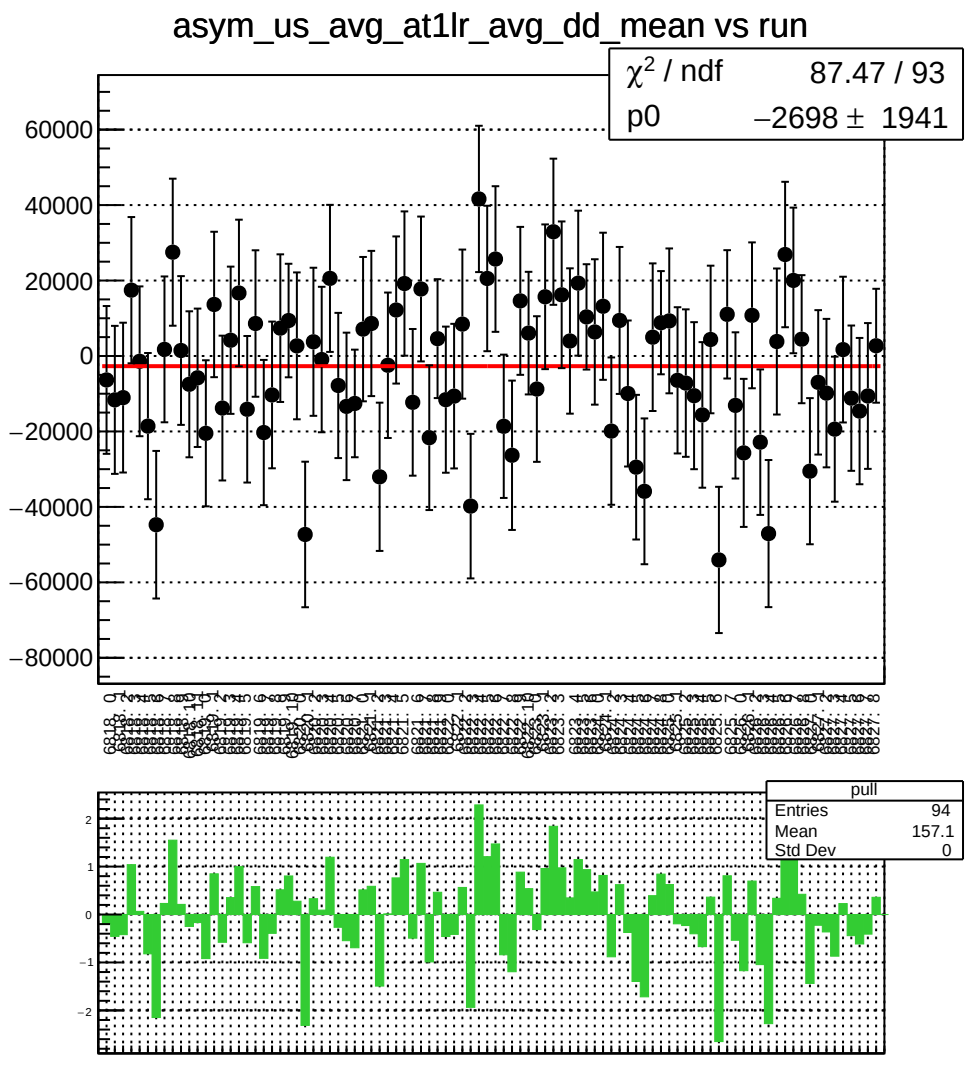

pull1D
Entries 94
Mean −0.01251
Std Dev 0.9273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

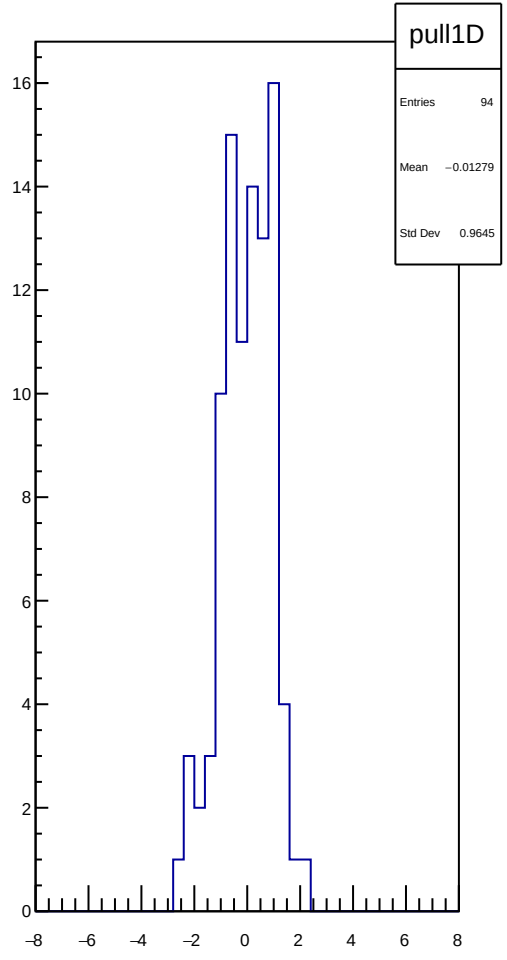

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 84.97 / 93
p0 1726 ± 1.288
1770
1760
1750
1740
1730
1720
1710
1700
1690

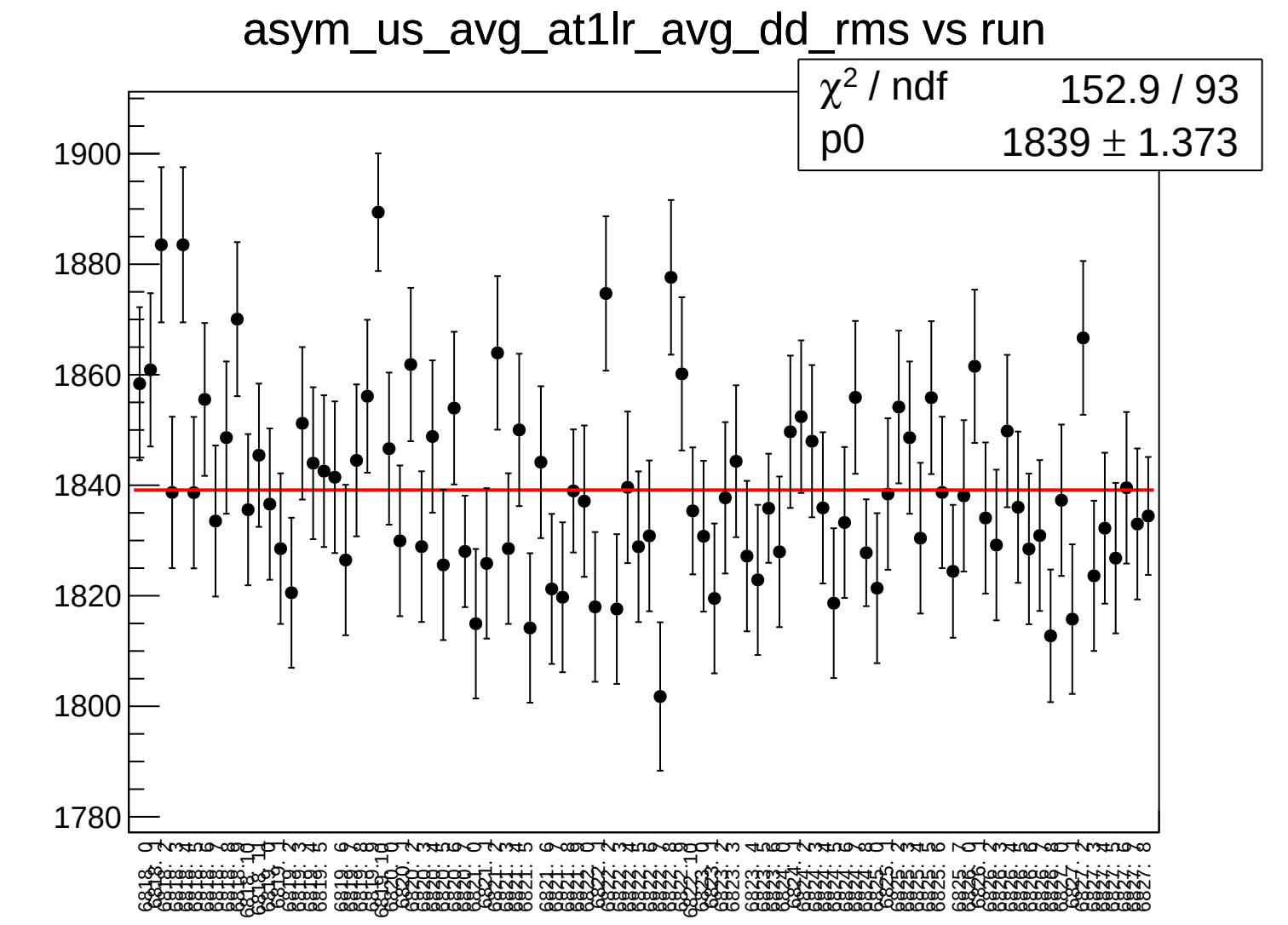

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.99 / 93
p0 499.8 ± 661.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean 317
Std Dev 0
2
1
0
−1
−2
−3

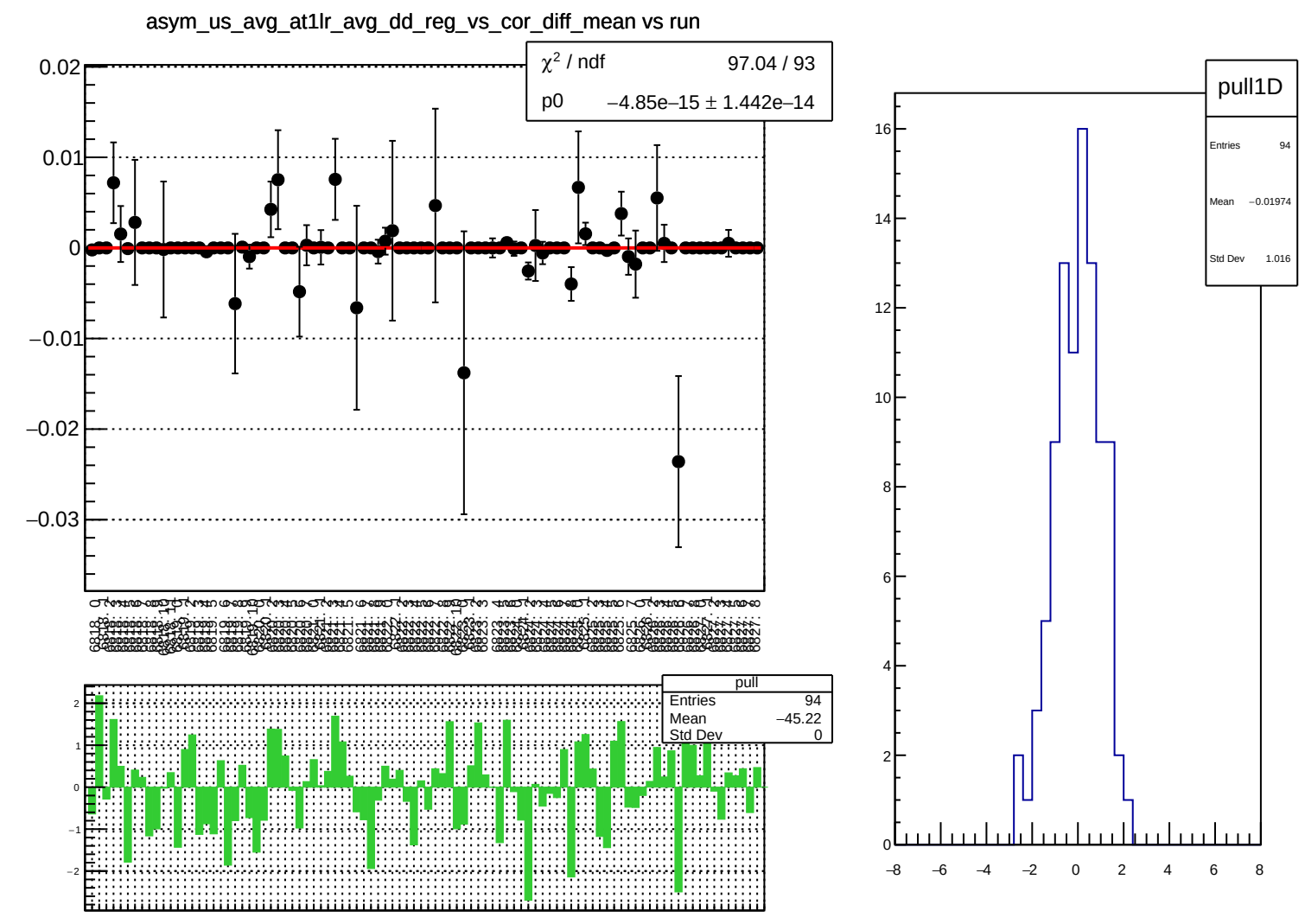

pull1D
Entries 94
Mean 0.002163
Std Dev 0.9396
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

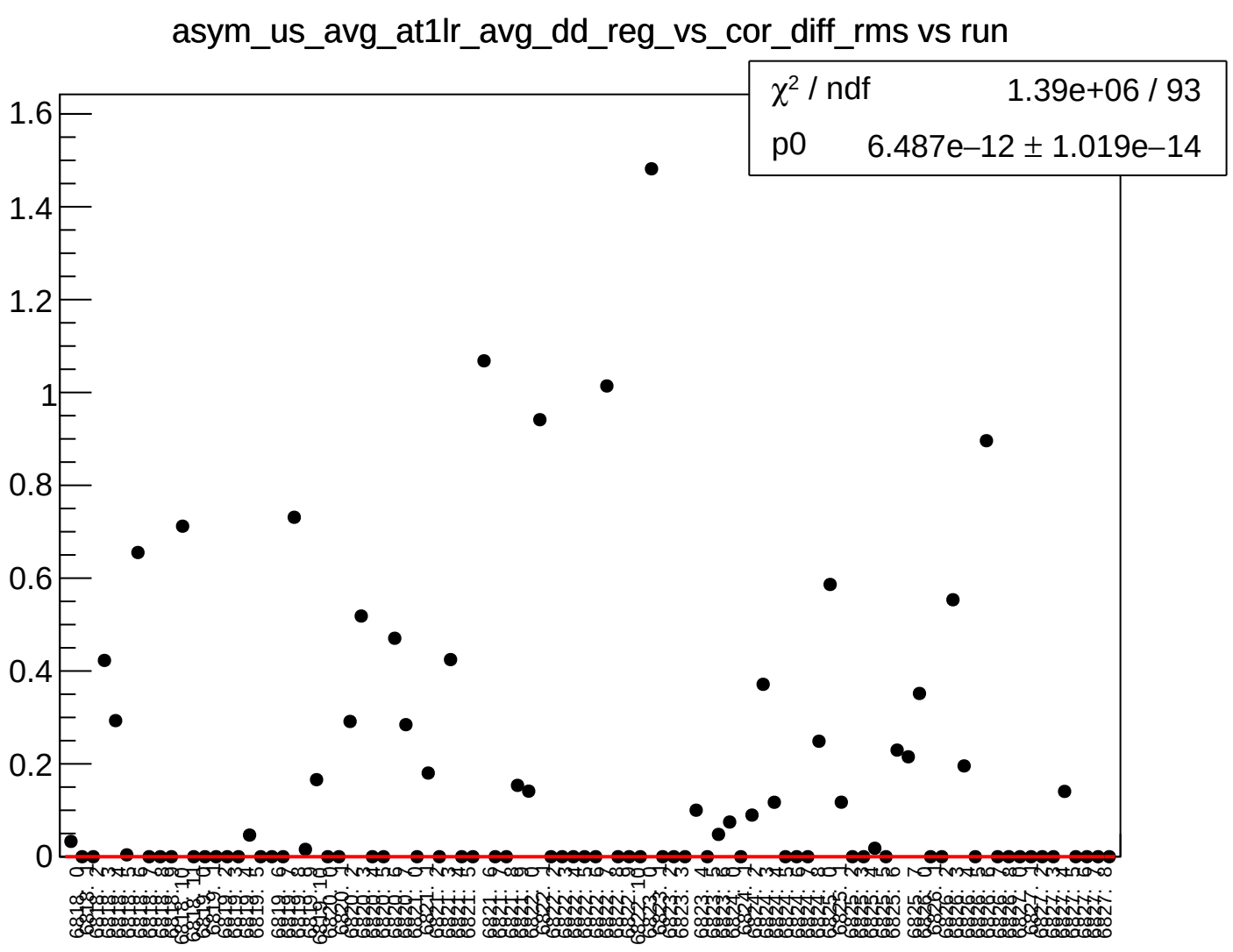

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5257 / 93
p0 625.4 ± 0.4675
800
750
700
650
600
550

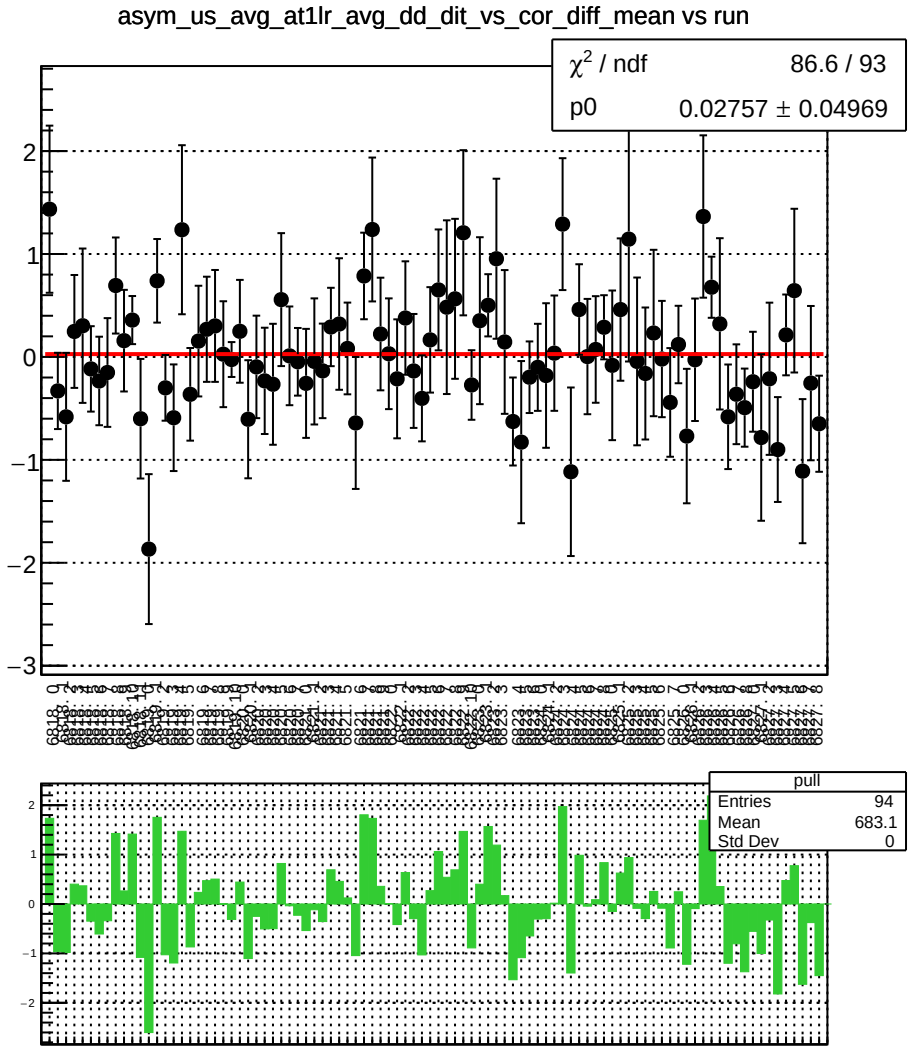

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 87.47 / 93
p0 −2698 ± 1941
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean 157.1
Std Dev 0
2
1
0
−1
−2

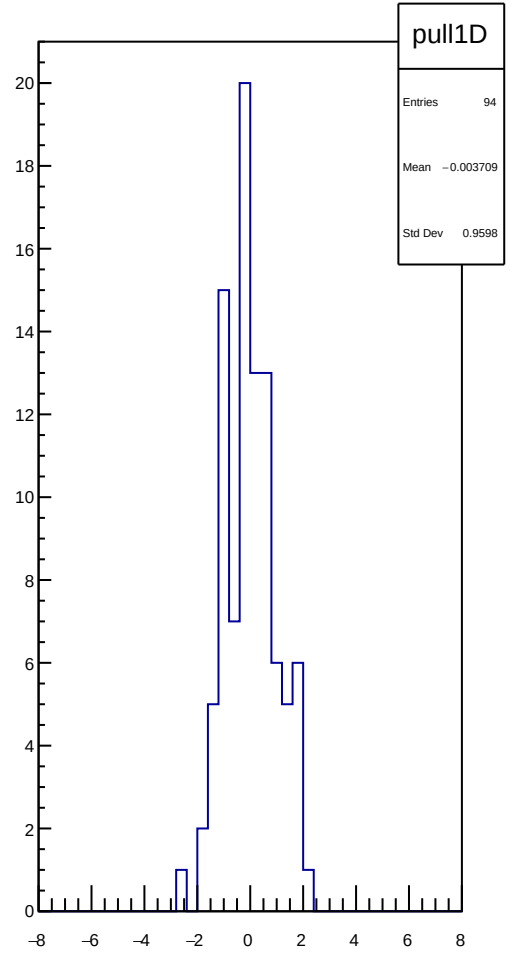

pull1D
Entries 94
Mean −0.01279
Std Dev 0.9645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

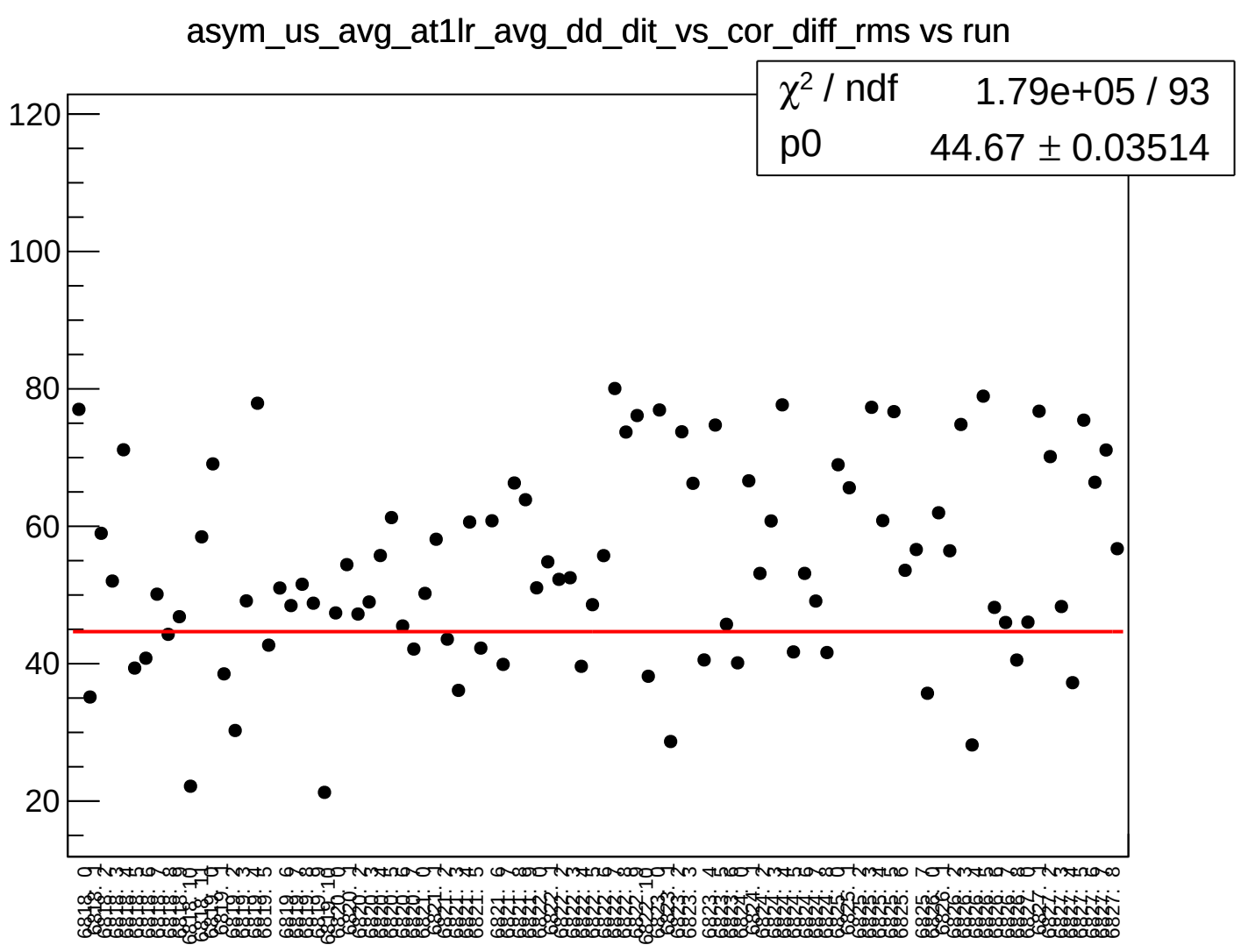

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 152.9 / 93
p0 1839 ± 1.373
1900
1880
1860
1840
1820
1800
1780

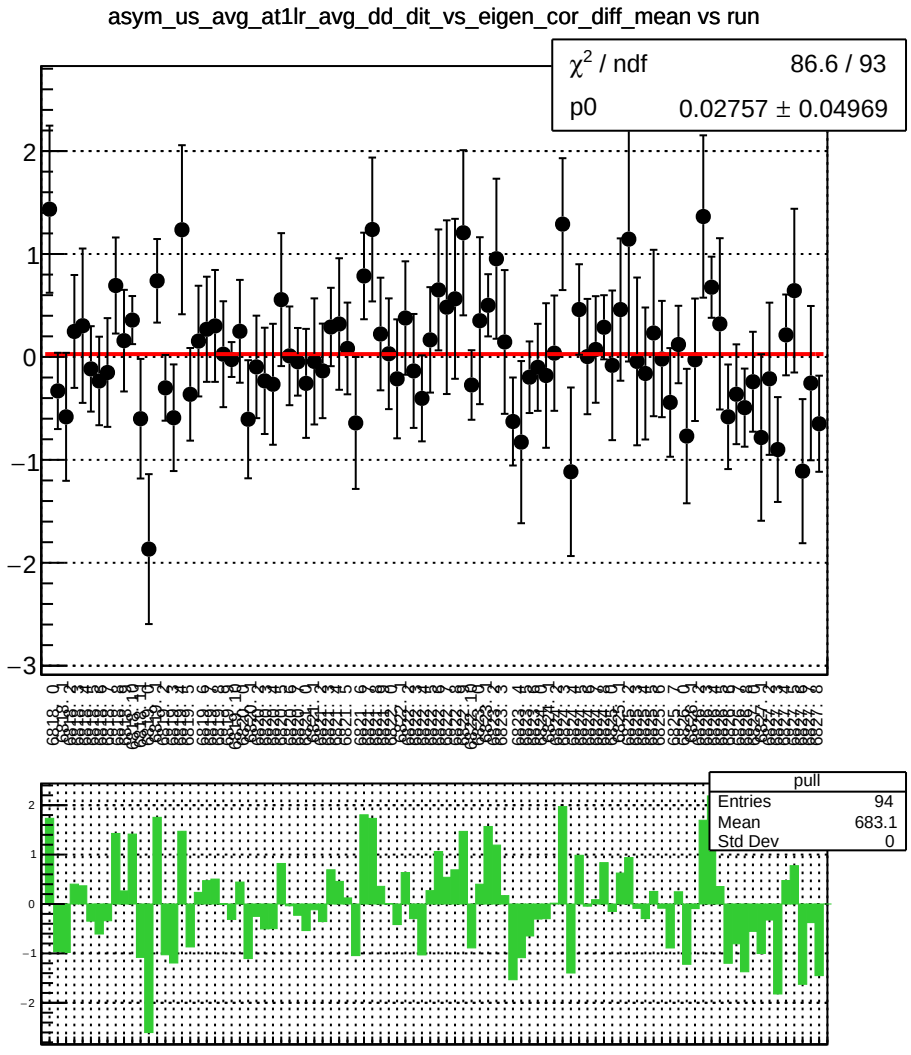

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.04 / 93
p0 −4.85e−15 ± 1.442e−14
pull
Entries 94
Mean −45.22
Std Dev 0
pull1D
Entries 94
Mean −0.01974
Std Dev 1.016

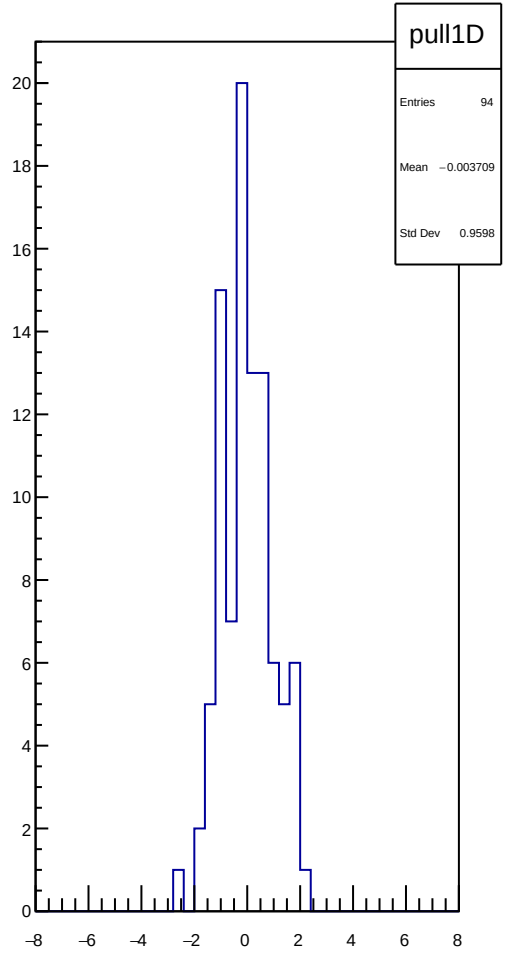

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.39e+06 / 93
p0 6.487e−12 ± 1.019e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

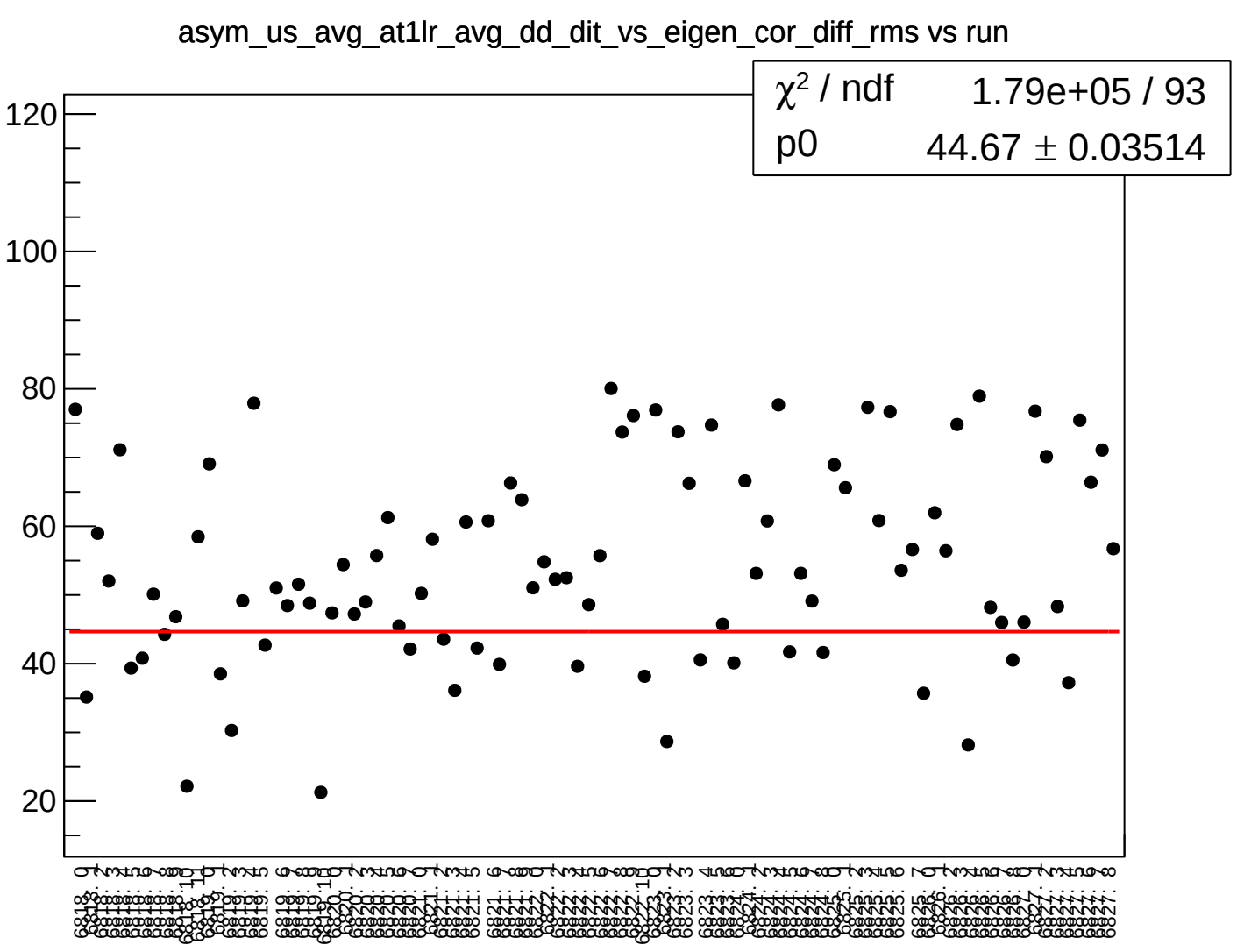

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.6 / 93
p0 0.02757 ± 0.04969
pull
Entries 94
Mean 683.1
Std Dev 0

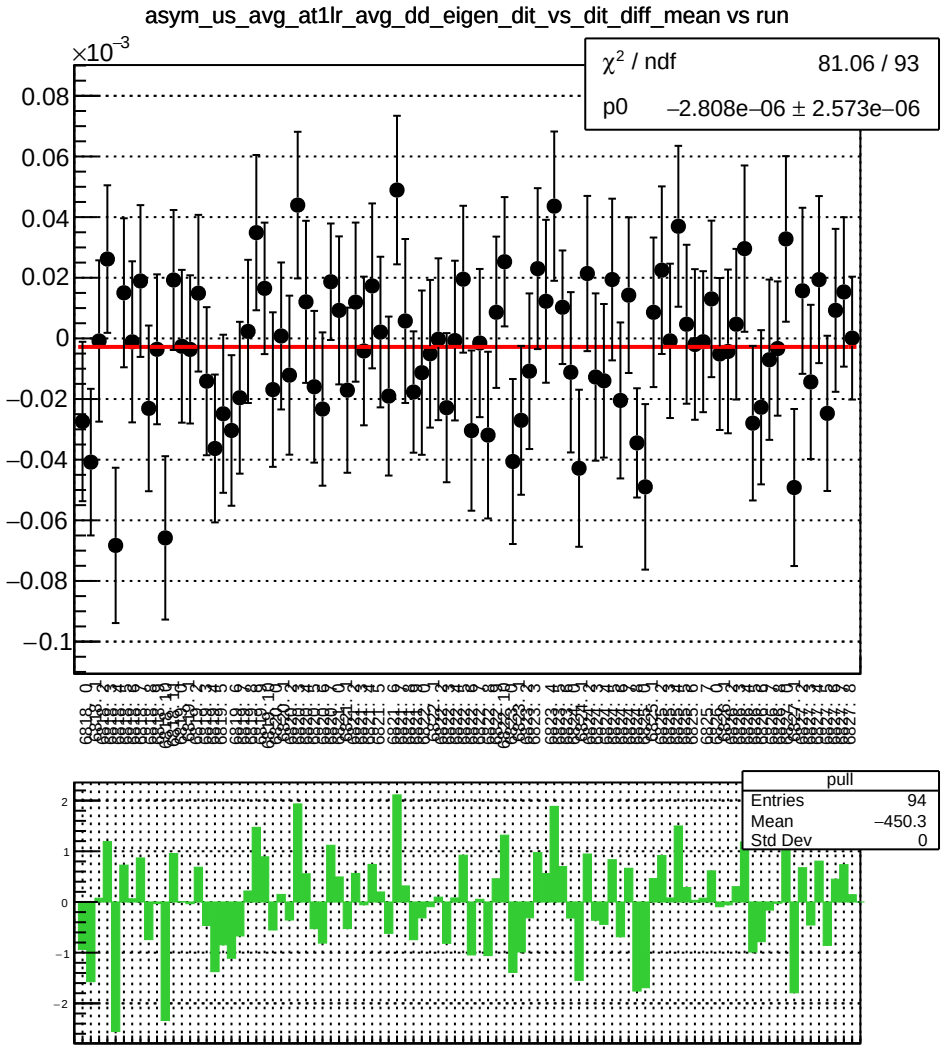

pull1D
Entries 94
Mean −0.003709
Std Dev 0.9598

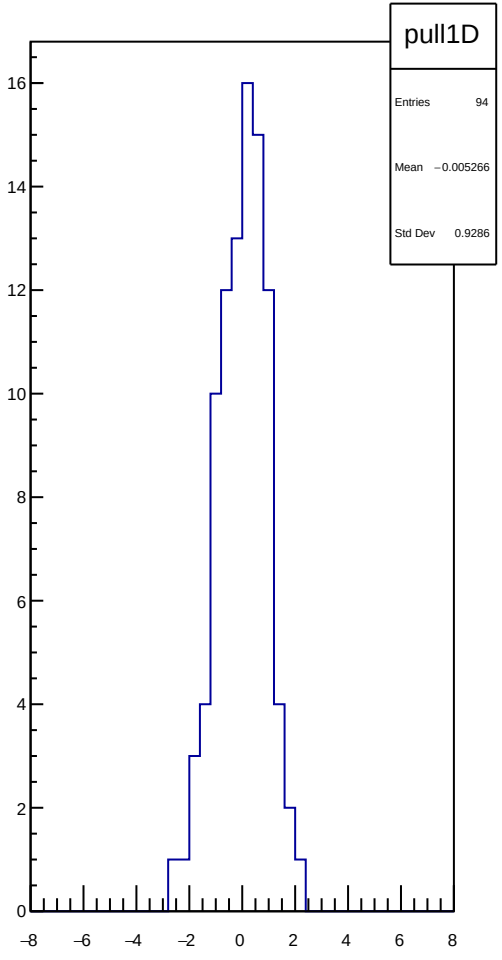

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 93
p0 44.67 ± 0.03514
120
100
80
60
40
20

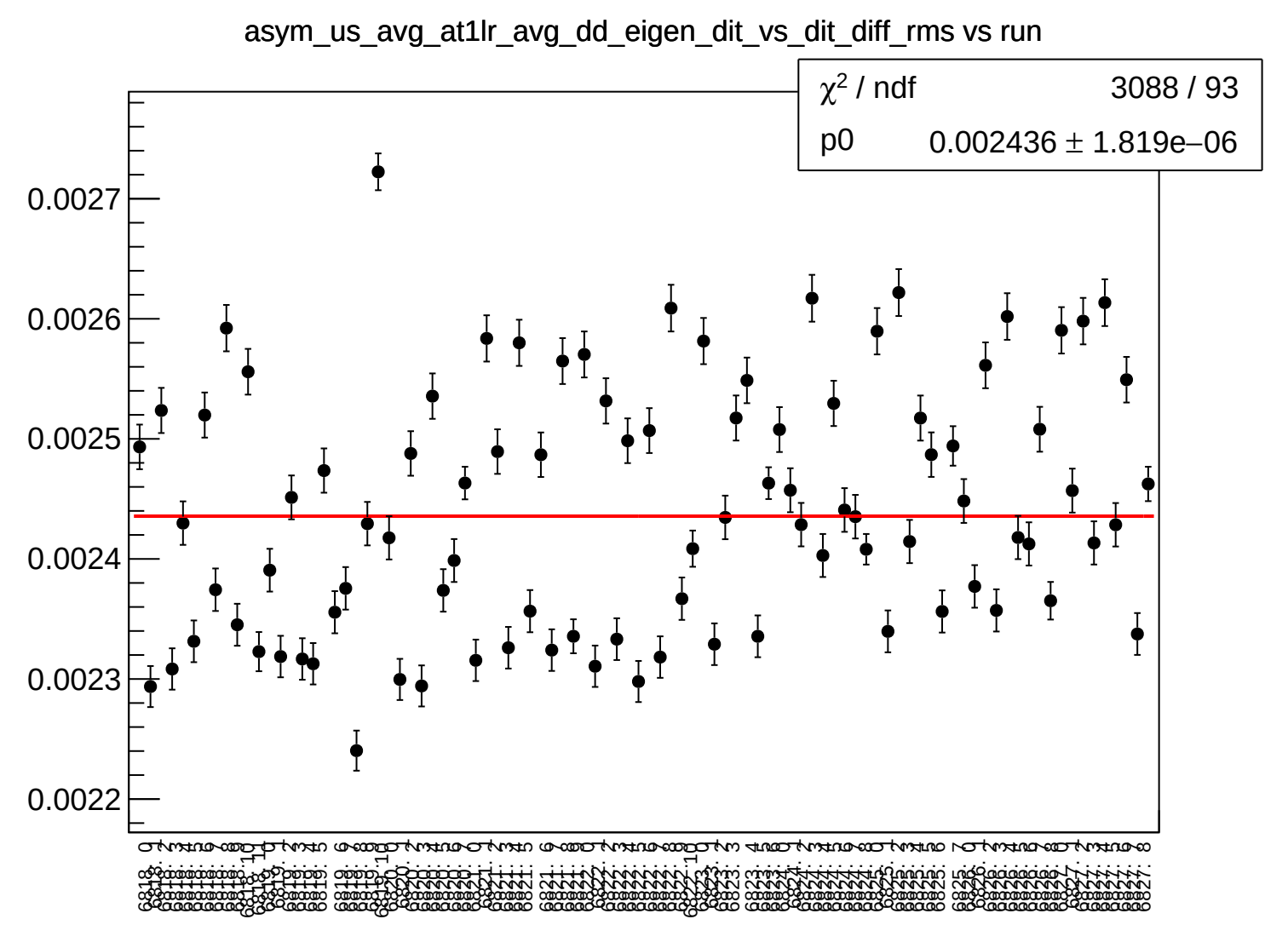

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.6 / 93
p0 0.02757 ± 0.04969
pull
Entries 94
Mean 683.1
Std Dev 0

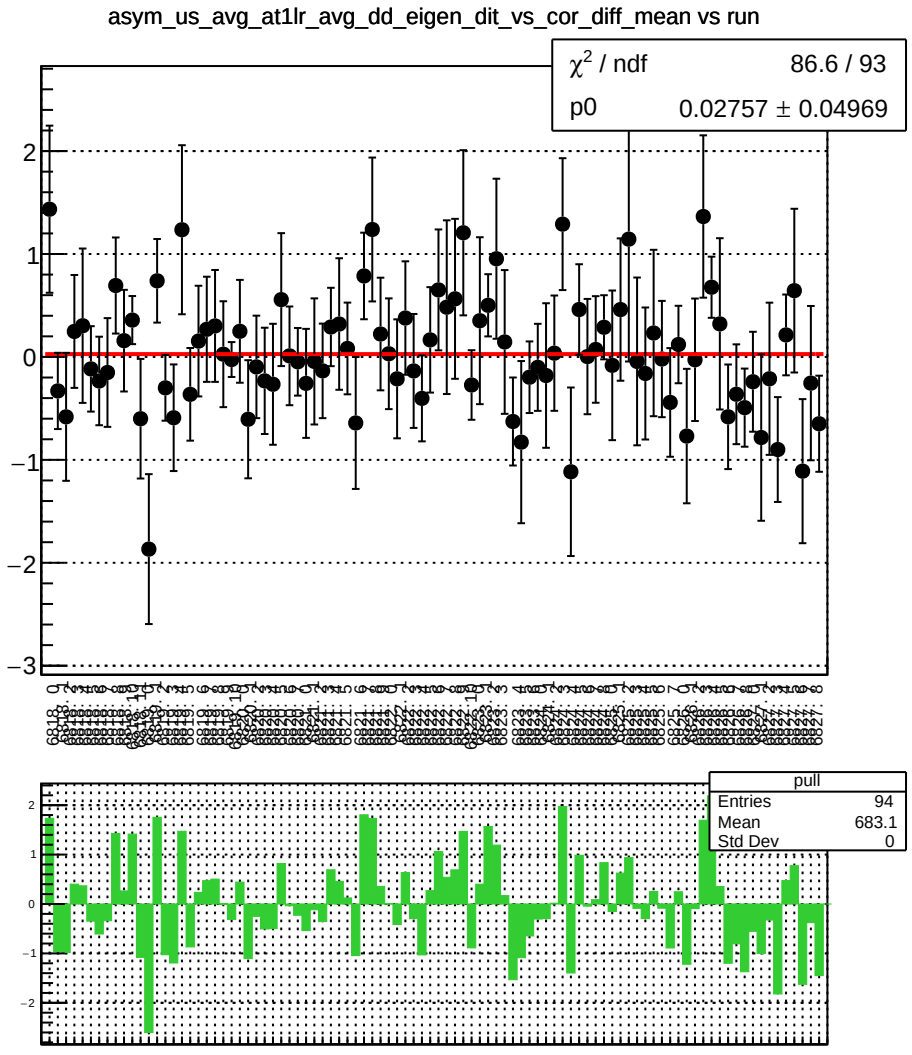

pull1D
Entries 94
Mean −0.003709
Std Dev 0.9598

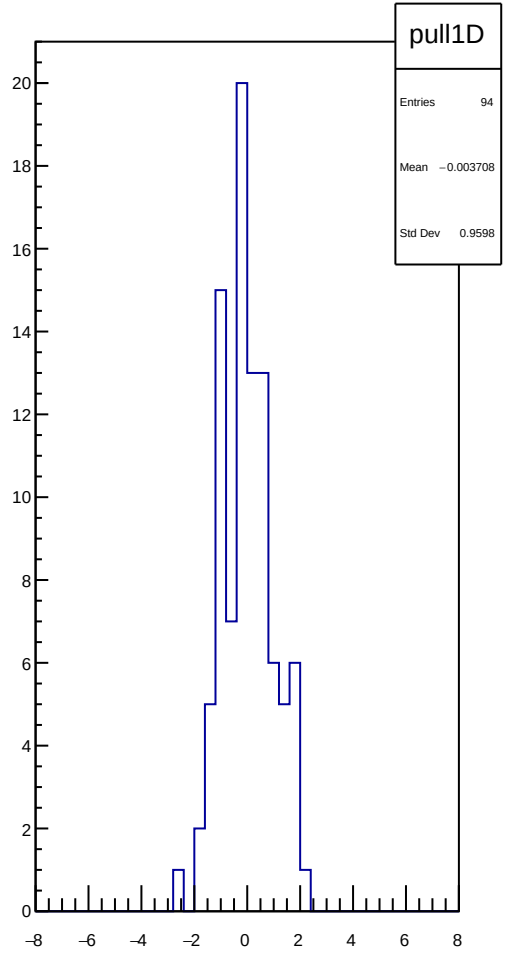

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 93
p0 44.67 ± 0.03514
120
100
80
60
40
20

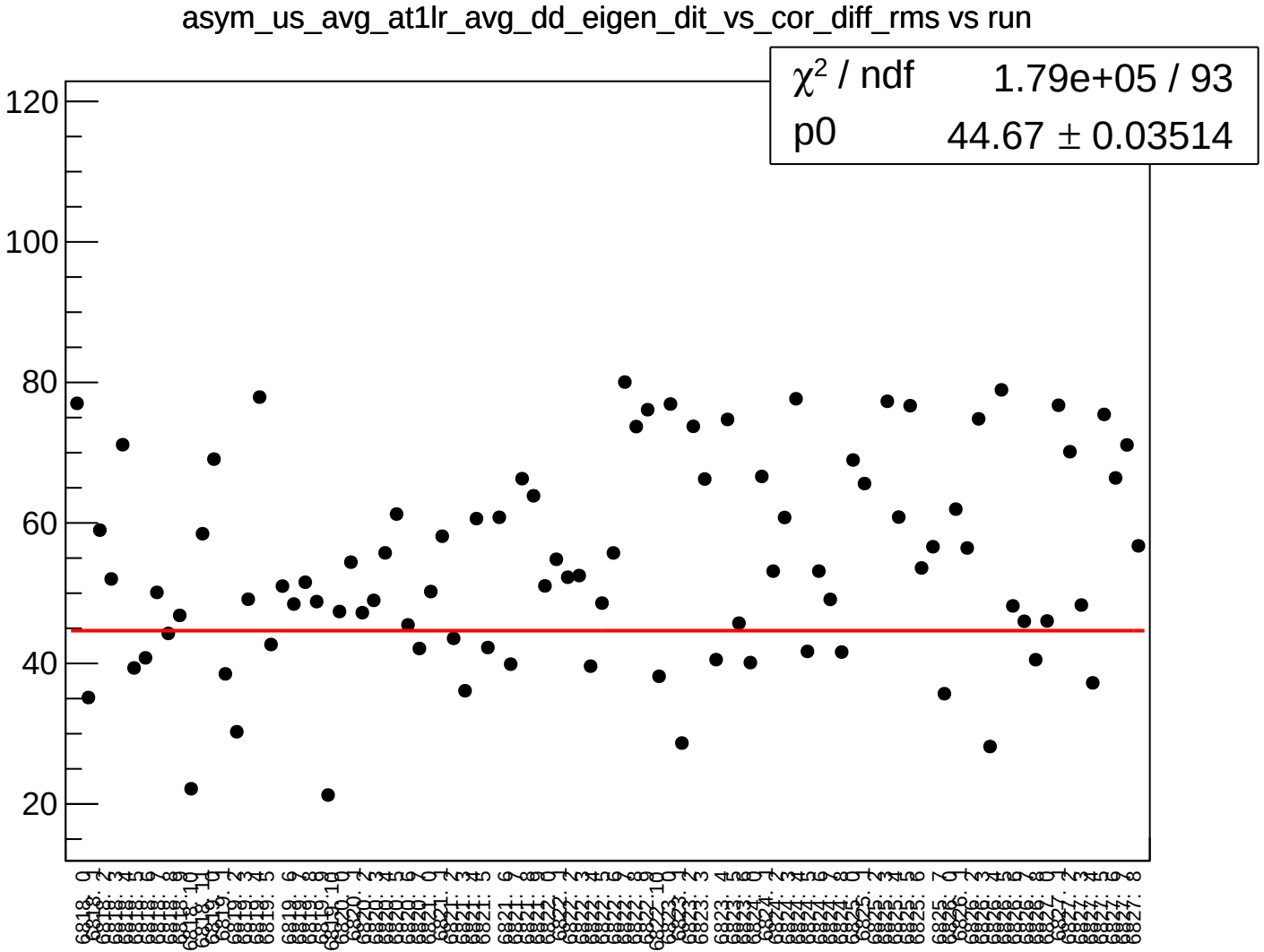

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.06 / 93
p0 −2.808e−06 ± 2.573e−06
pull
Entries 94
Mean −450.3
Std Dev 0

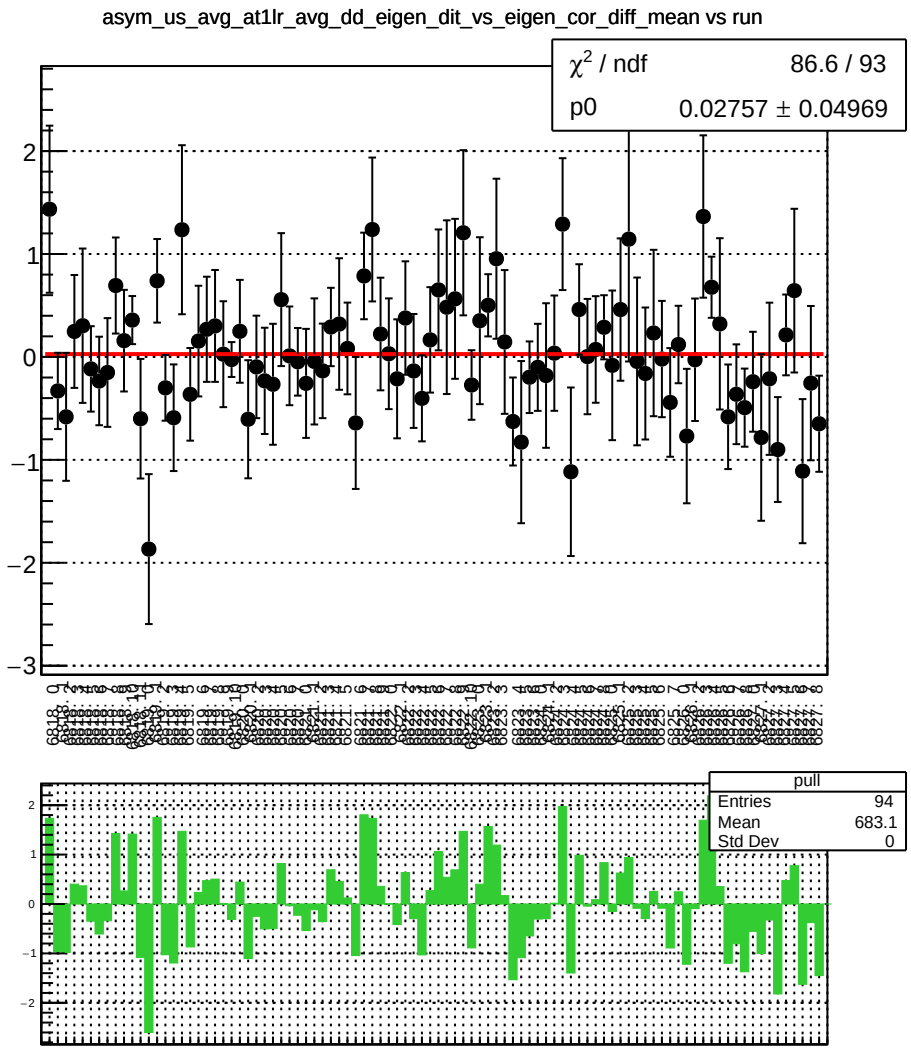

pull1D
Entries 94
Mean −0.005266
Std Dev 0.9286

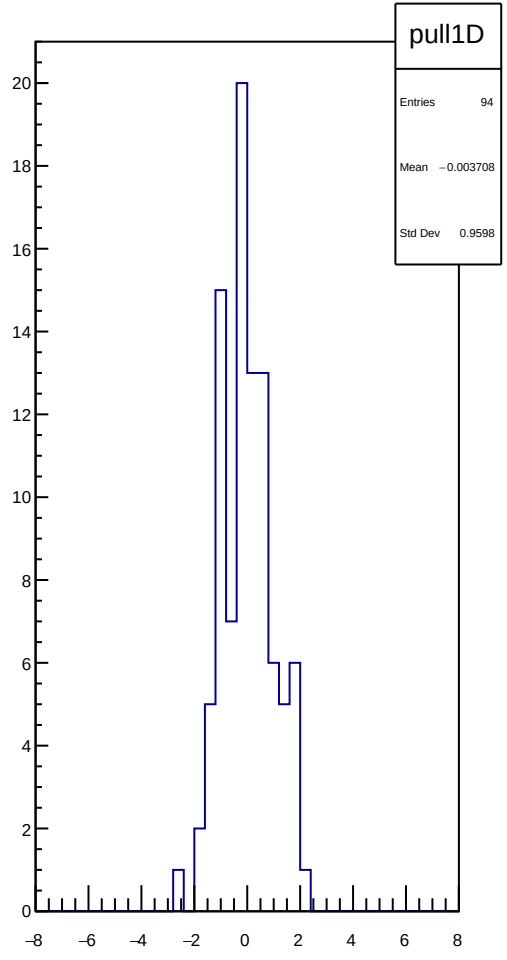

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3088 / 93
p0 0.002436 ± 1.819e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

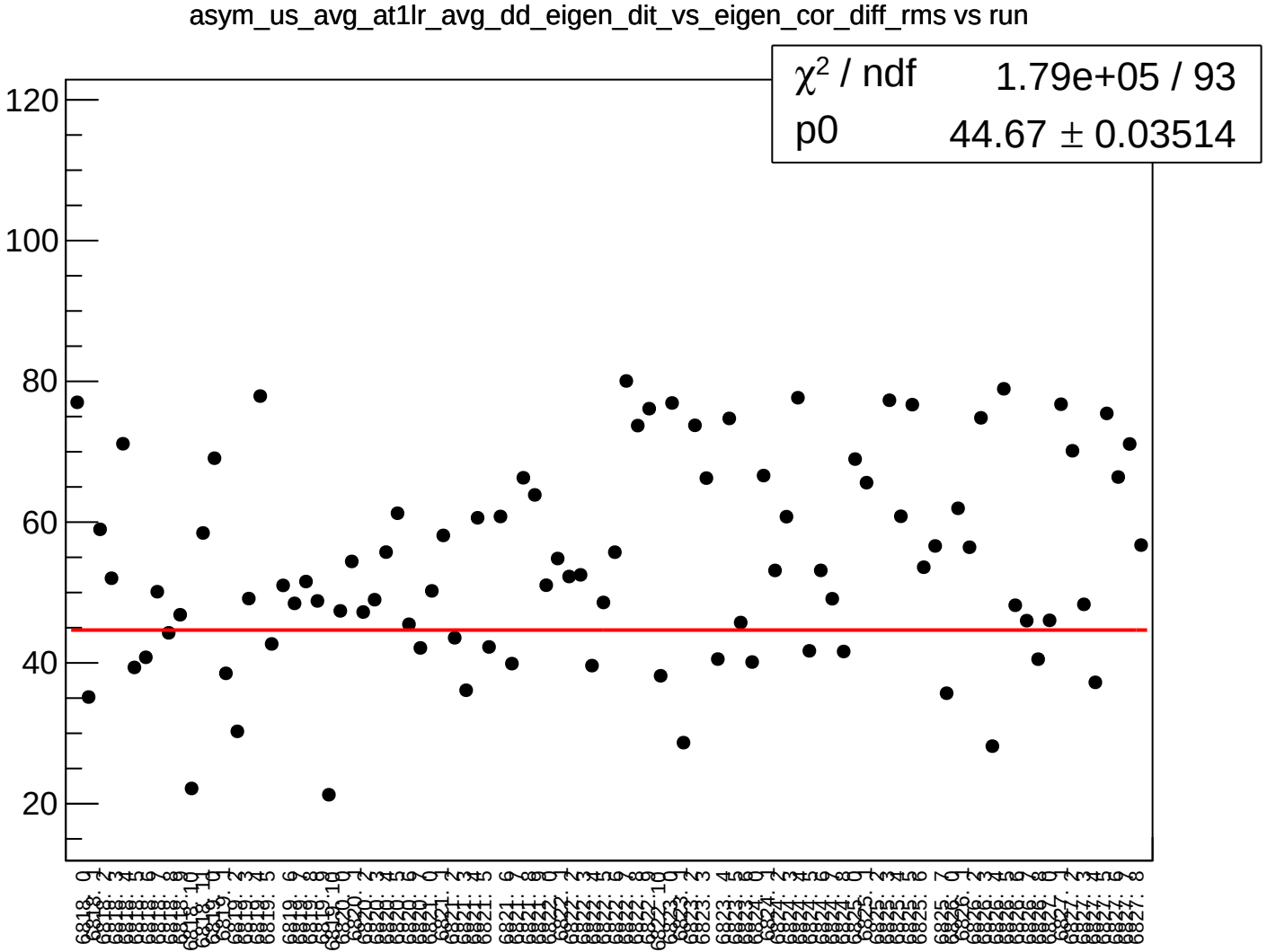

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.6 / 93
p0 0.02757 ± 0.04969
pull
Entries 94
Mean 683.1
Std Dev 0

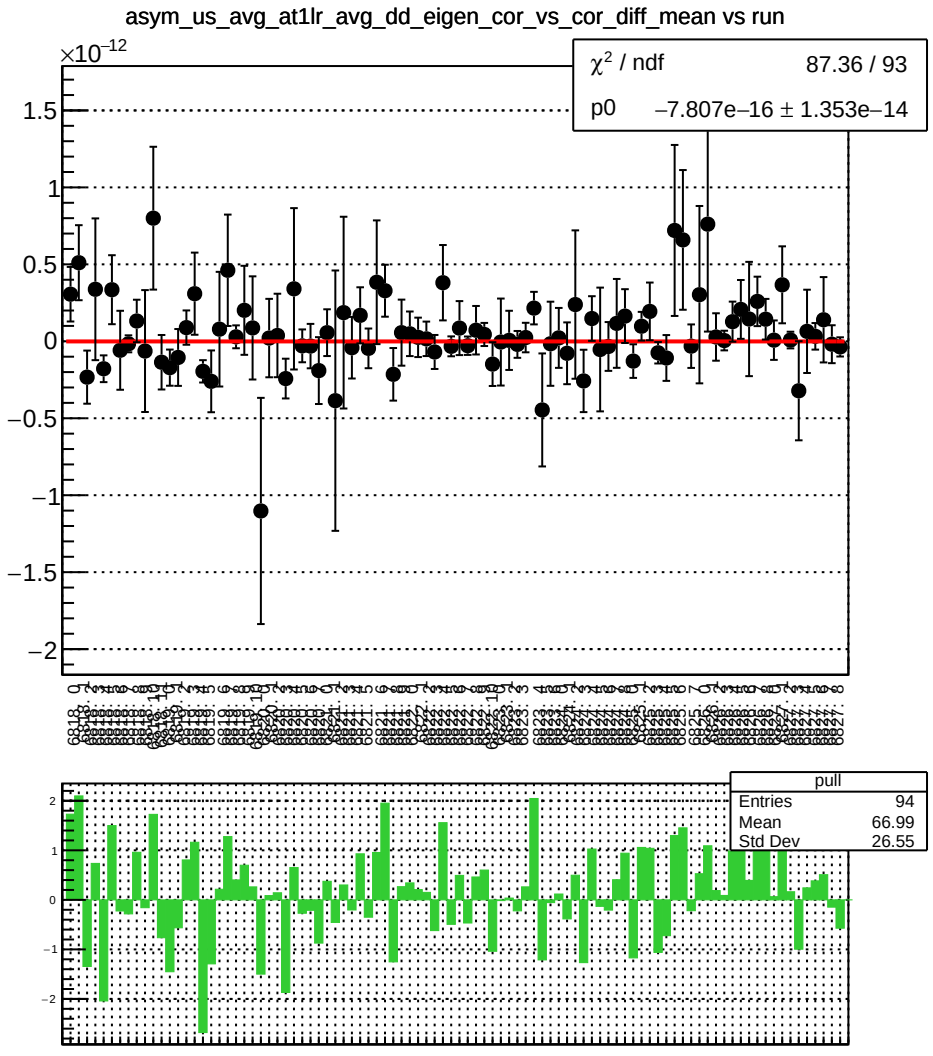

pull1D
Entries 94
Mean −0.003708
Std Dev 0.9598

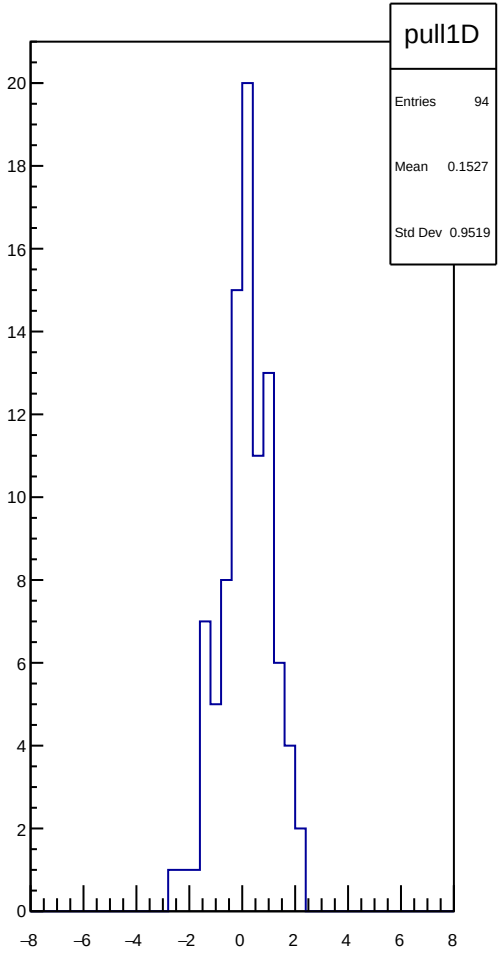

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 93
p0 44.67 ± 0.03514
120
100
80
60
40
20

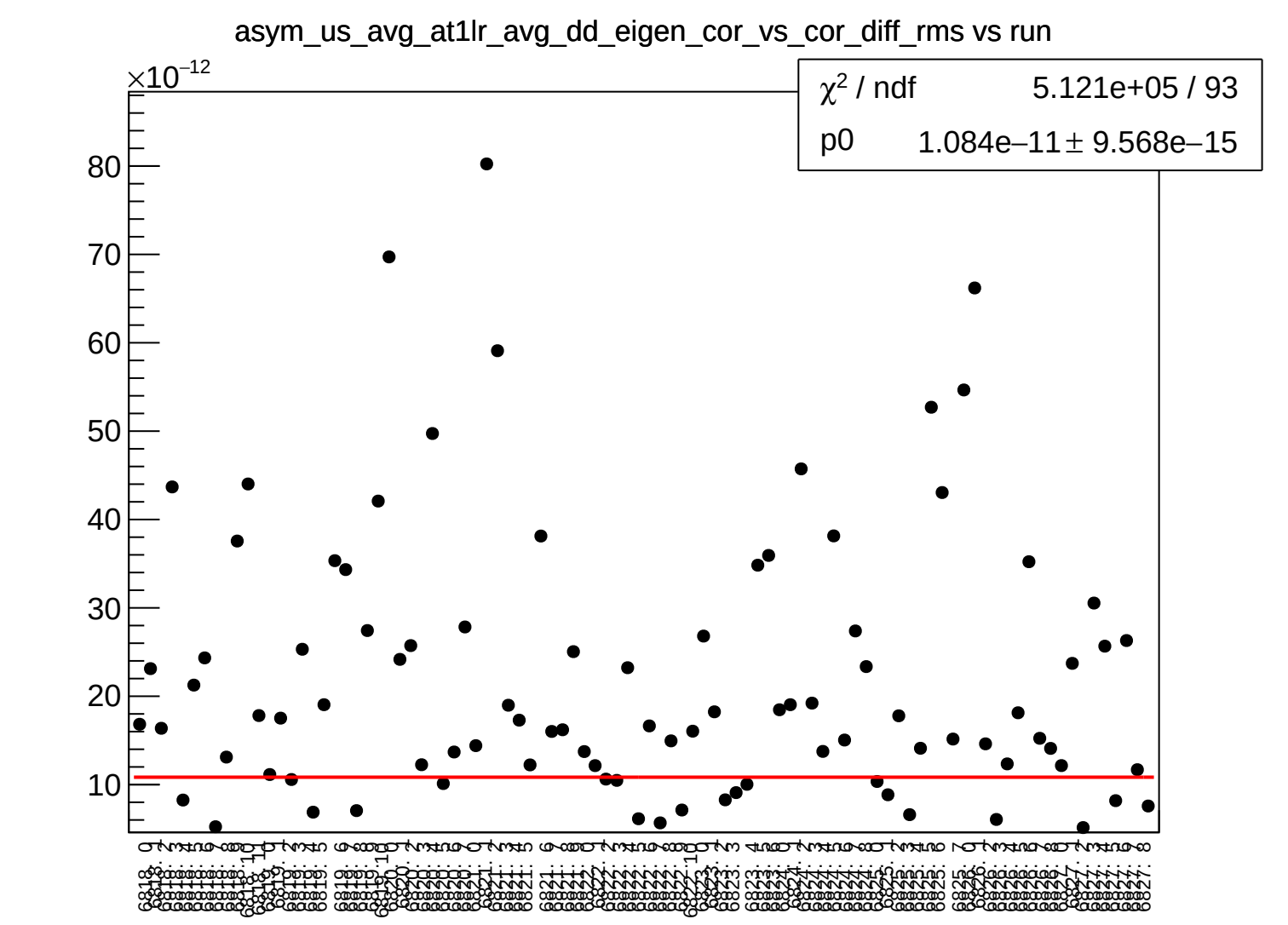

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.6 / 93
p0 0.02757 ± 0.04969
pull
Entries 94
Mean 683.1
Std Dev 0

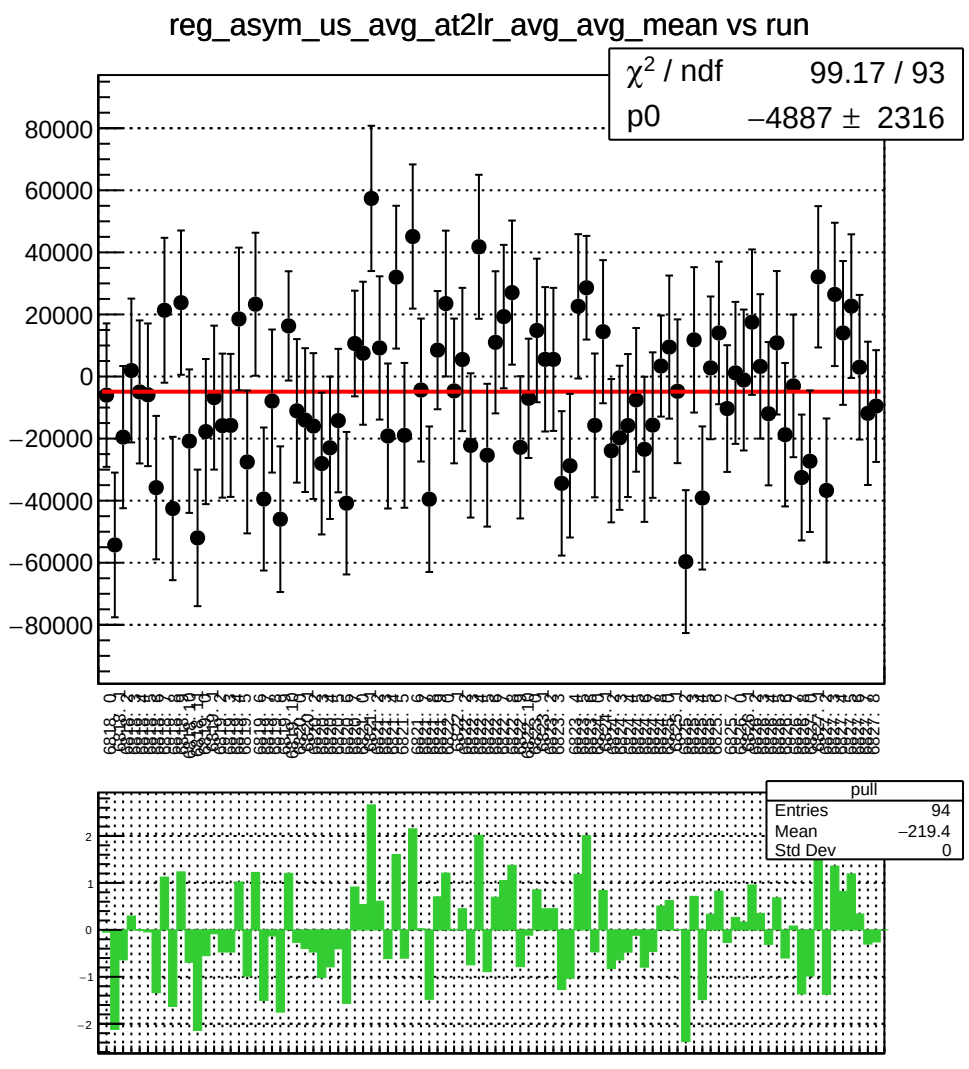

pull1D
Entries 94
Mean −0.003708
Std Dev 0.9598

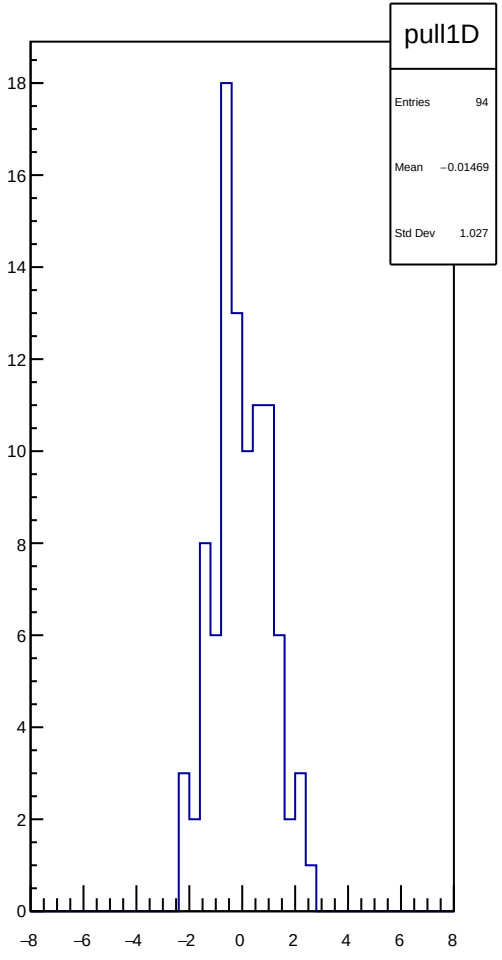

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.79e+05 / 93
p0 44.67 ± 0.03514
120
100
80
60
40
20

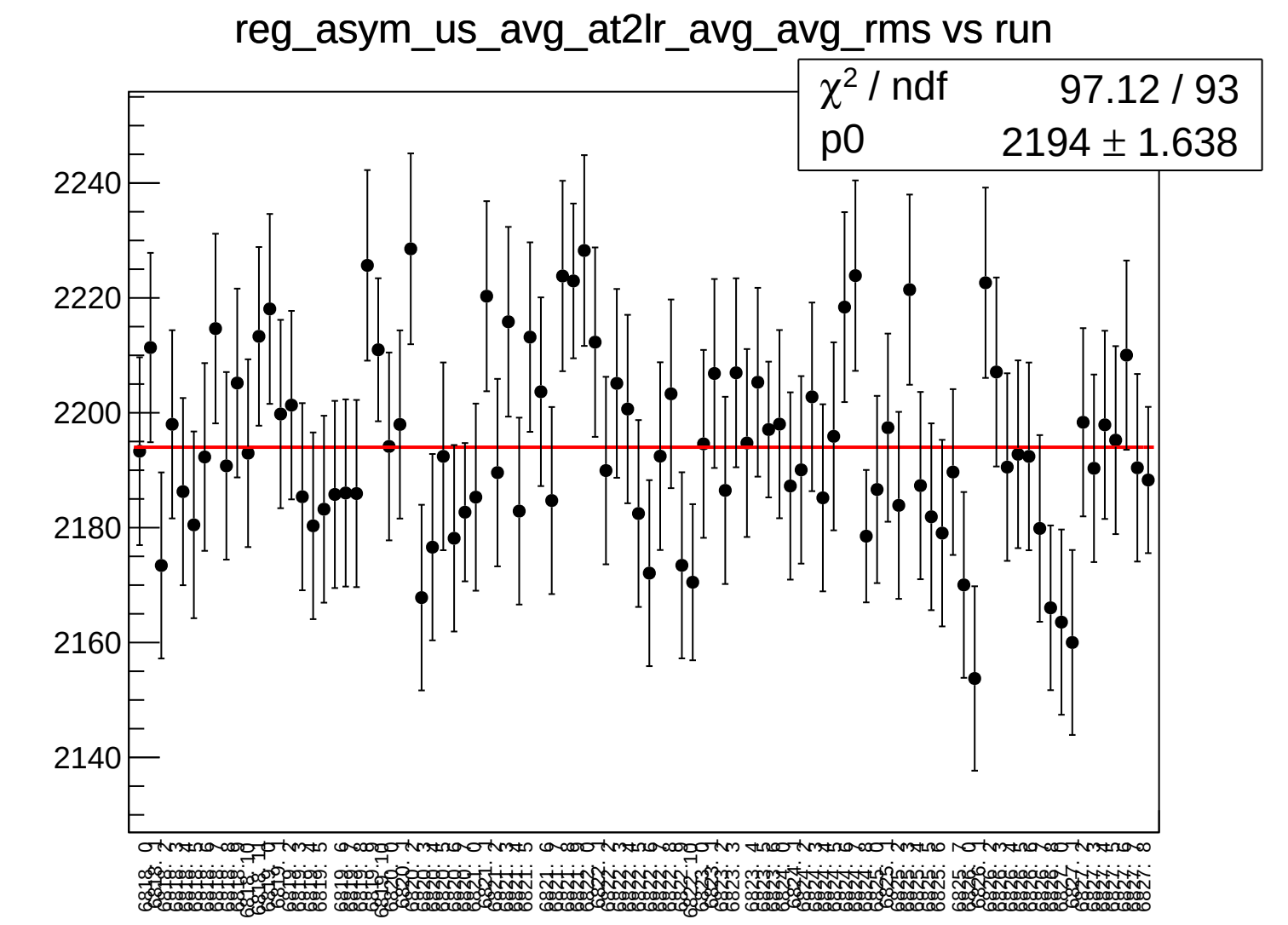

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.36 / 93
p0 −7.807e−16 ± 1.353e−14
pull
Entries 94
Mean 66.99
Std Dev 26.55

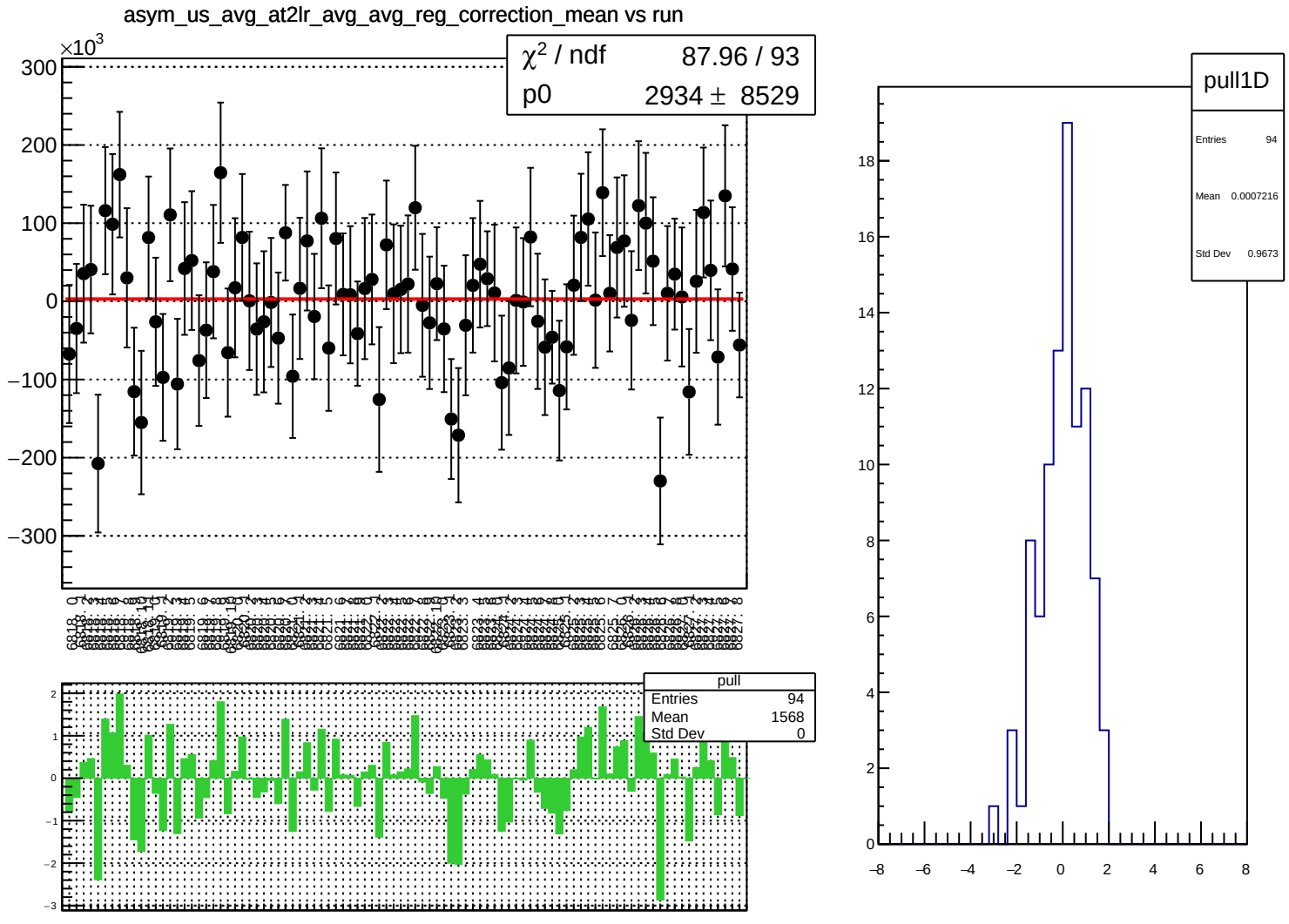

pull1D
Entries 94
Mean 0.1527
Std Dev 0.9519

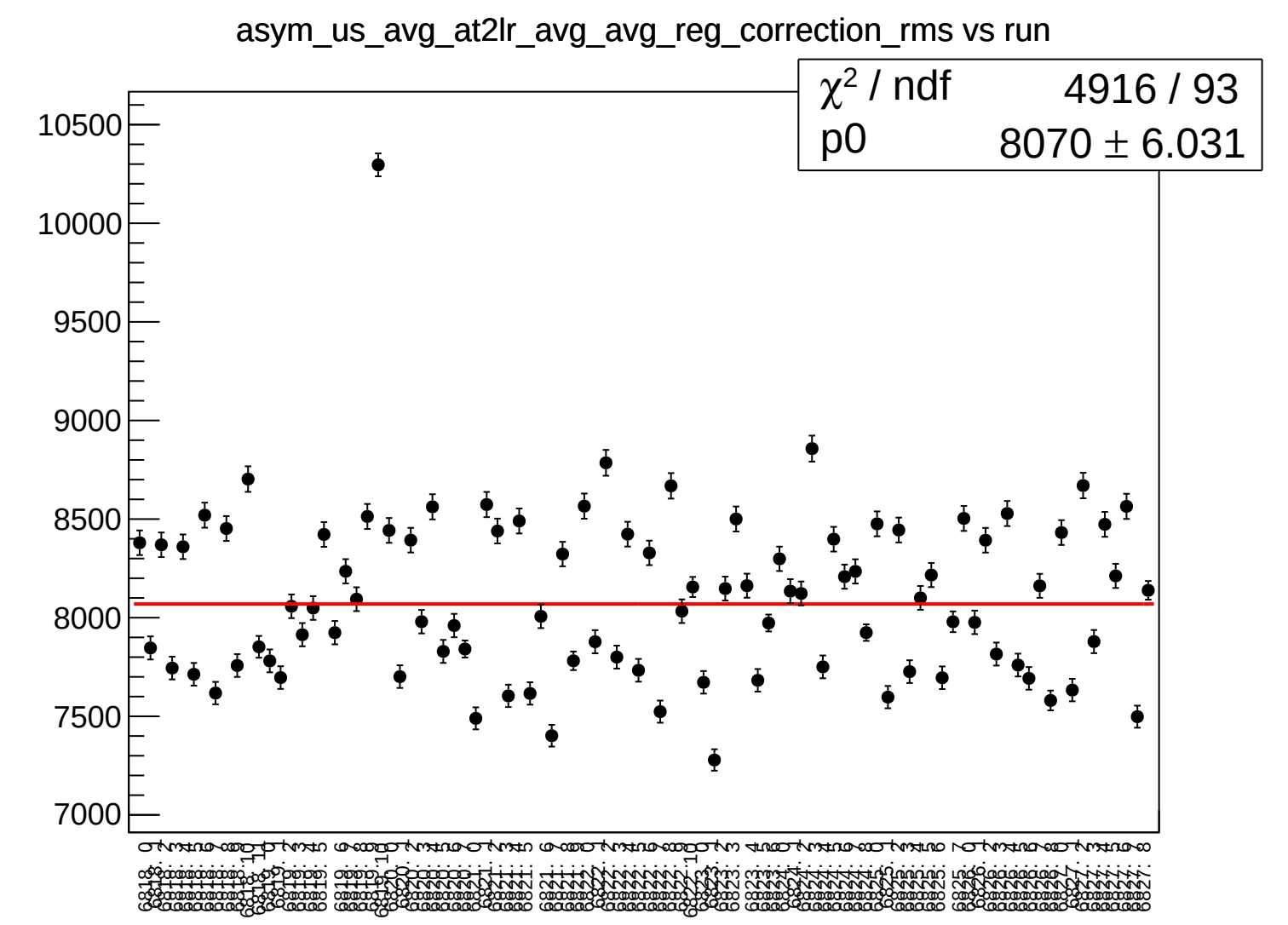

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.121e+05 / 93
p0 1.084e−11 ± 9.568e−15
80
70
60
50
40
30
20
10

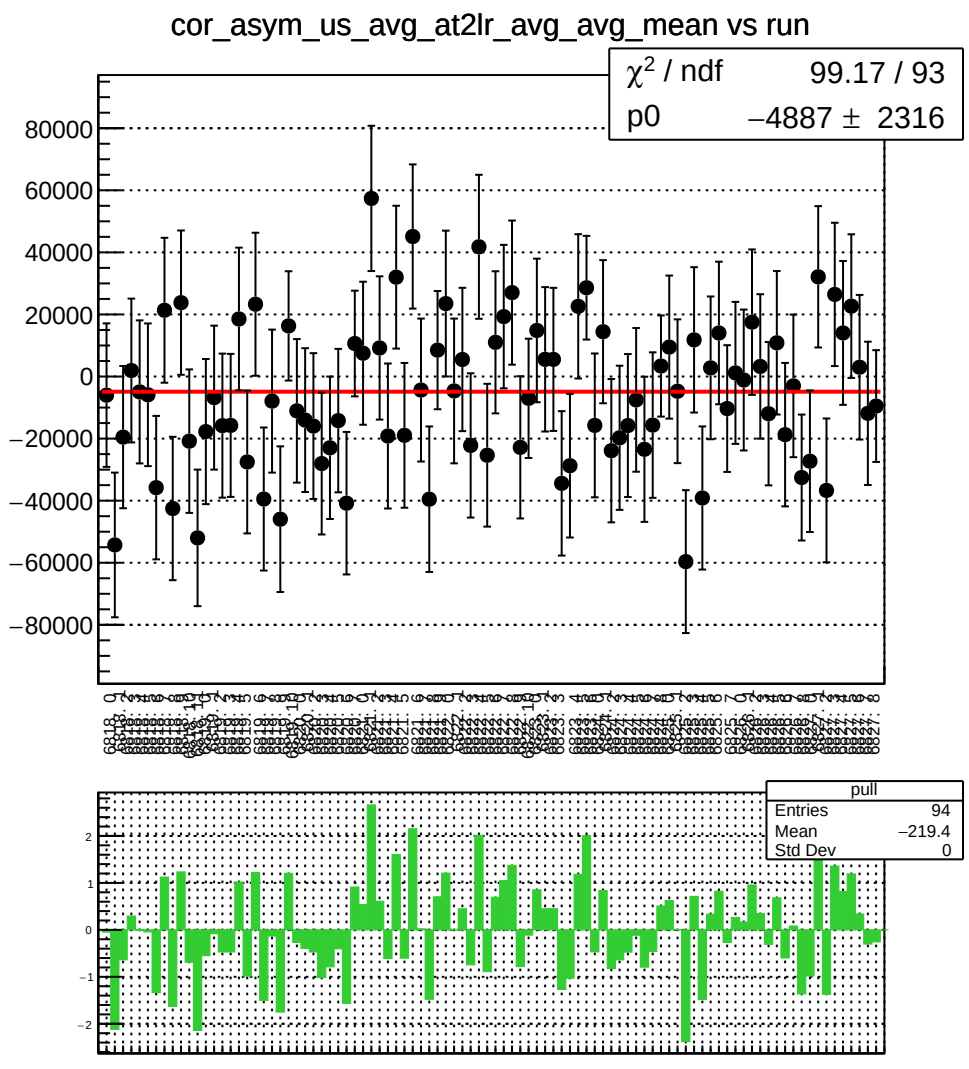

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 99.17 / 93
p0 −4887 ± 2316
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −219.4
Std Dev 0
2
1
0
−1
−2

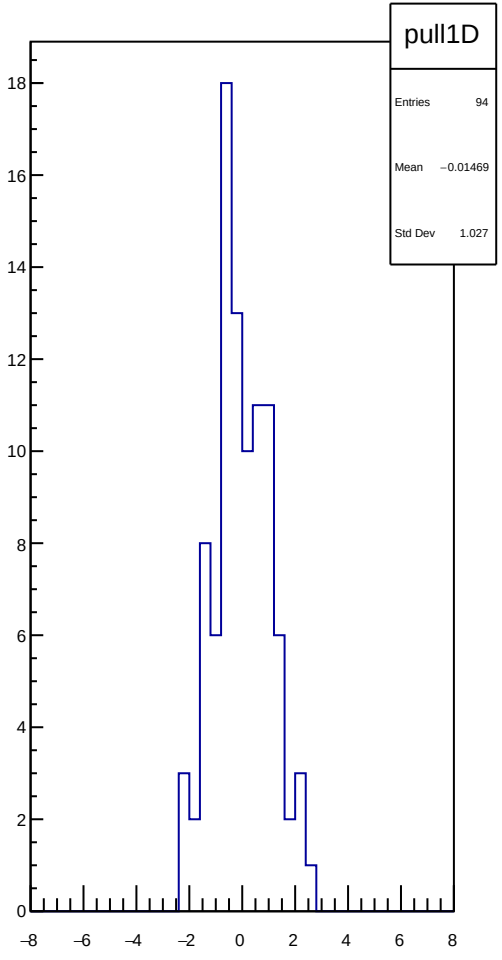

pull1D
Entries 94
Mean −0.01469
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

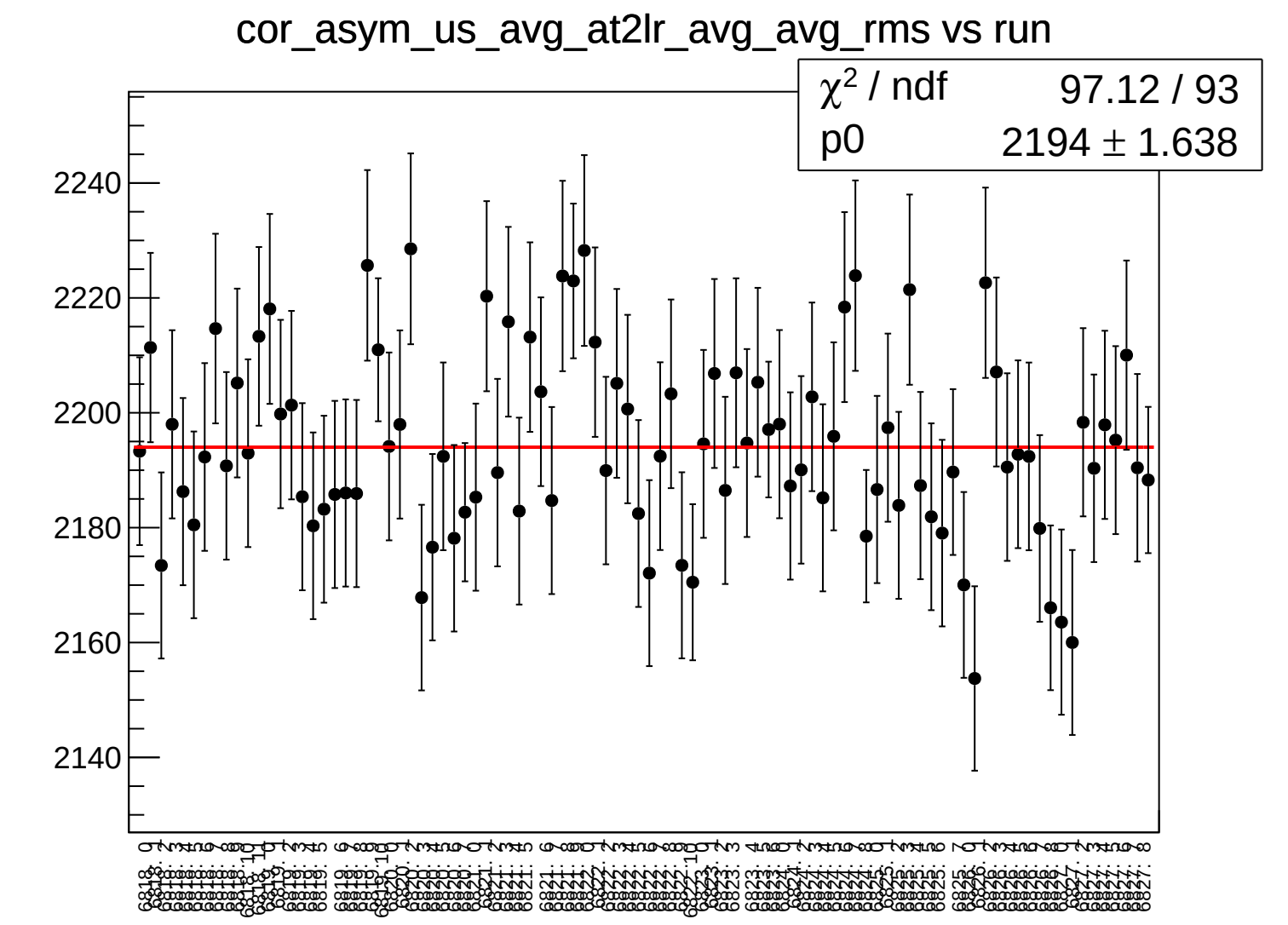

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.12 / 93
p0 2194 ± 1.638
2240
2220
2200
2180
2160
2140

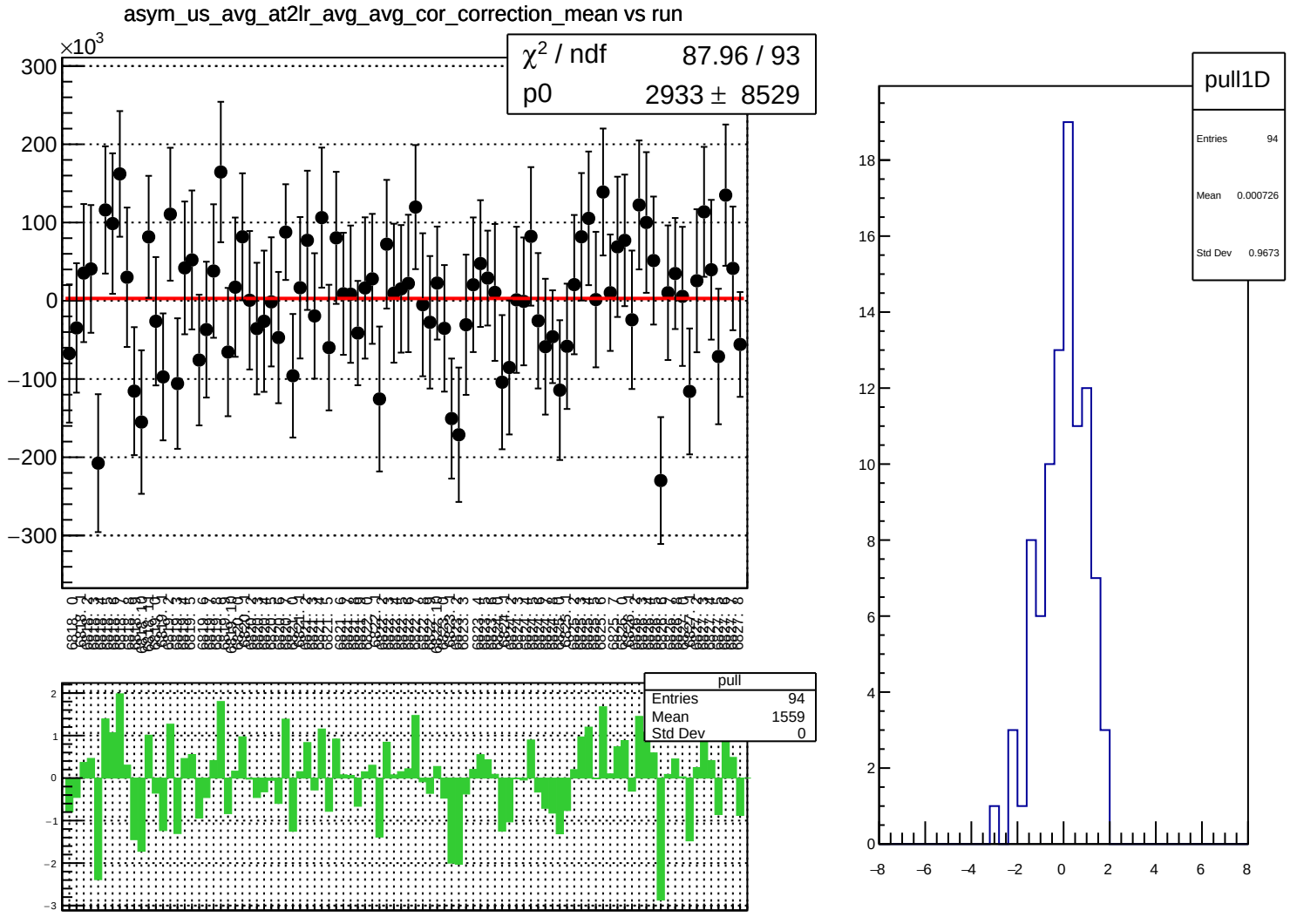

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 87.96 / 93
p0 2934 ± 8529
pull
Entries 94
Mean 1568
Std Dev 0
pull1D
Entries 94
Mean 0.0007216
Std Dev 0.9673

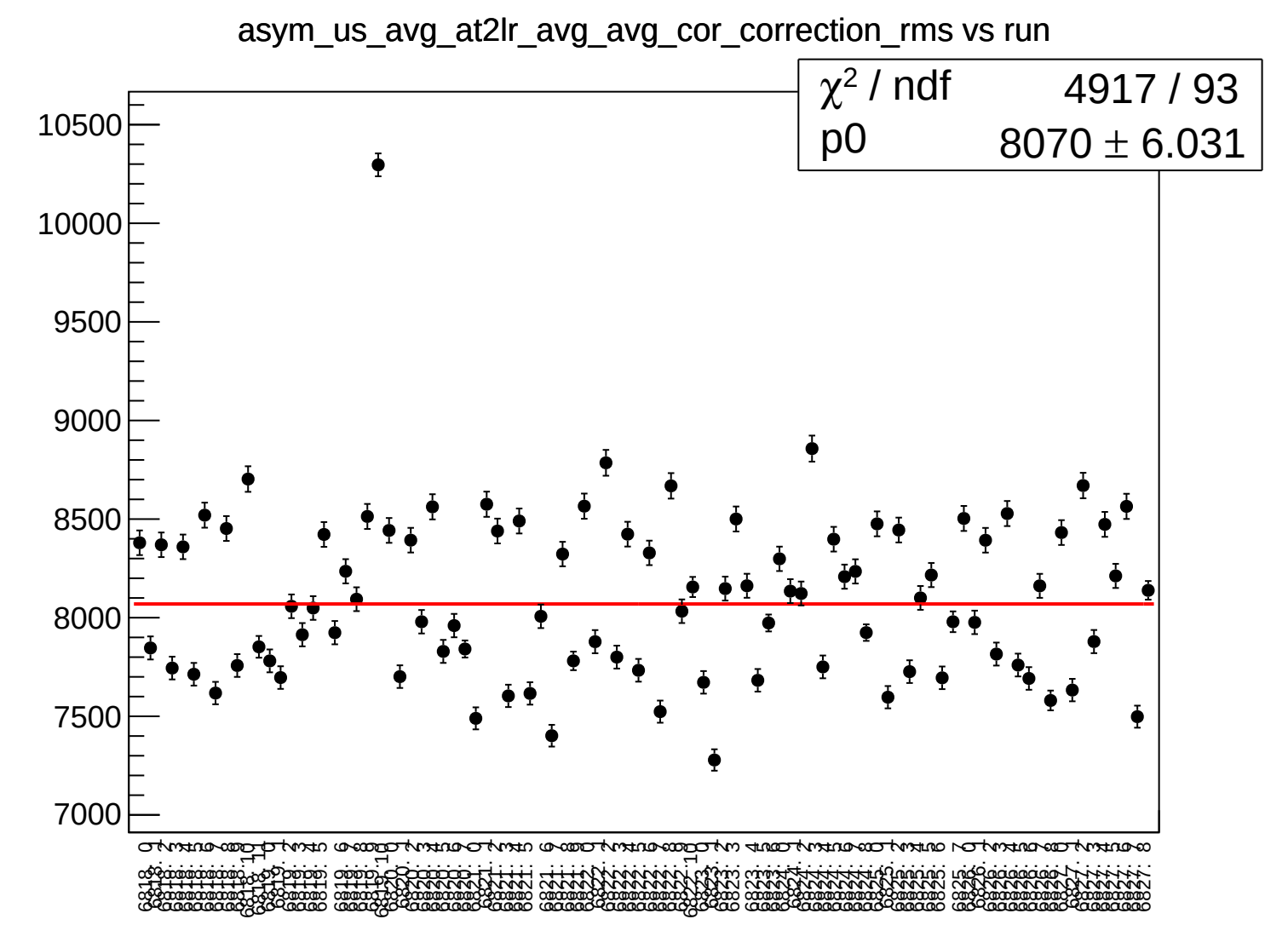

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4916 / 93
p0 8070 ± 6.031
10500
10000
9500
9000
8500
8000
7500
7000

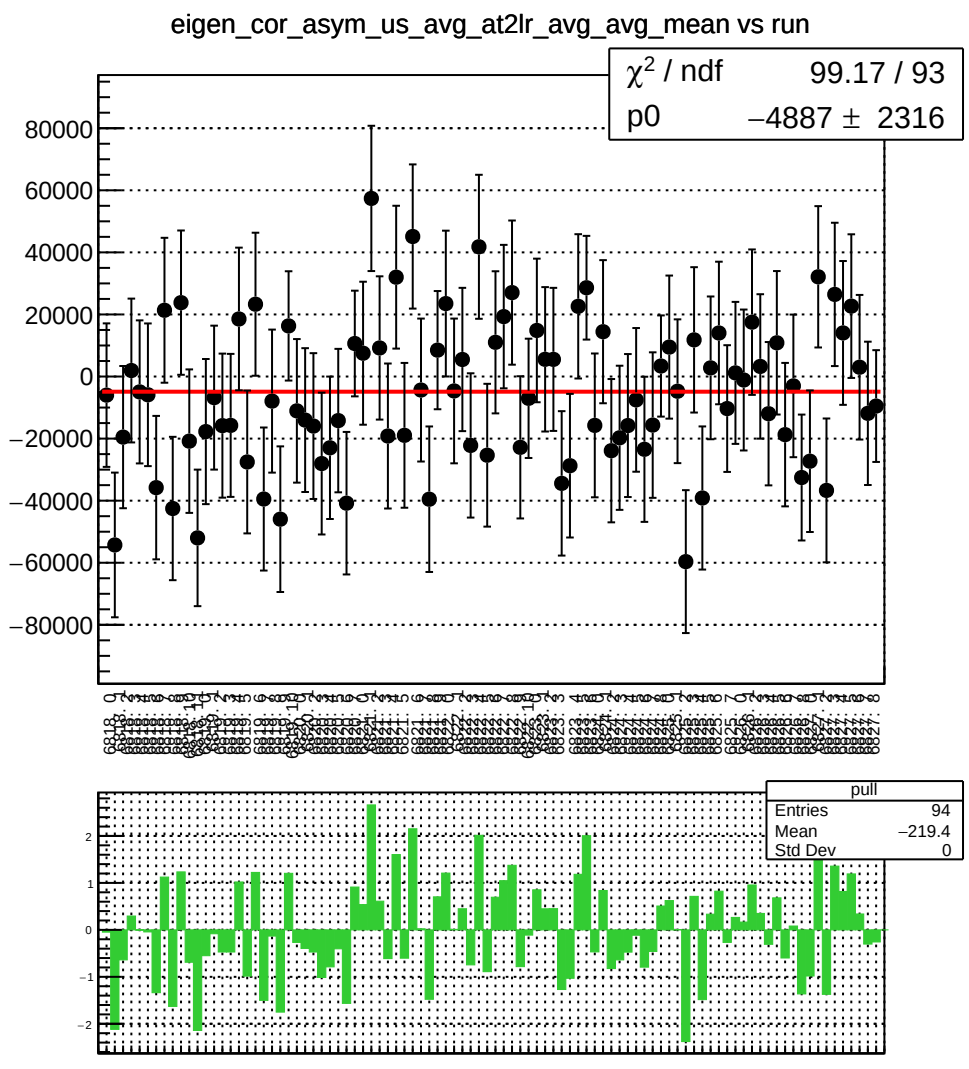

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 99.17 / 93
p0 −4887 ± 2316
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −219.4
Std Dev 0
2
1
0
−1
−2

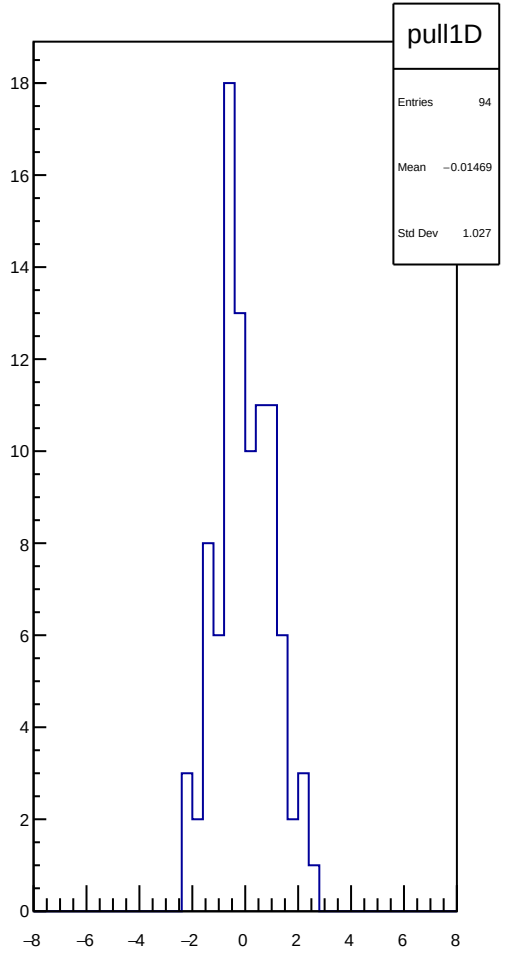

pull1D
Entries 94
Mean −0.01469
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

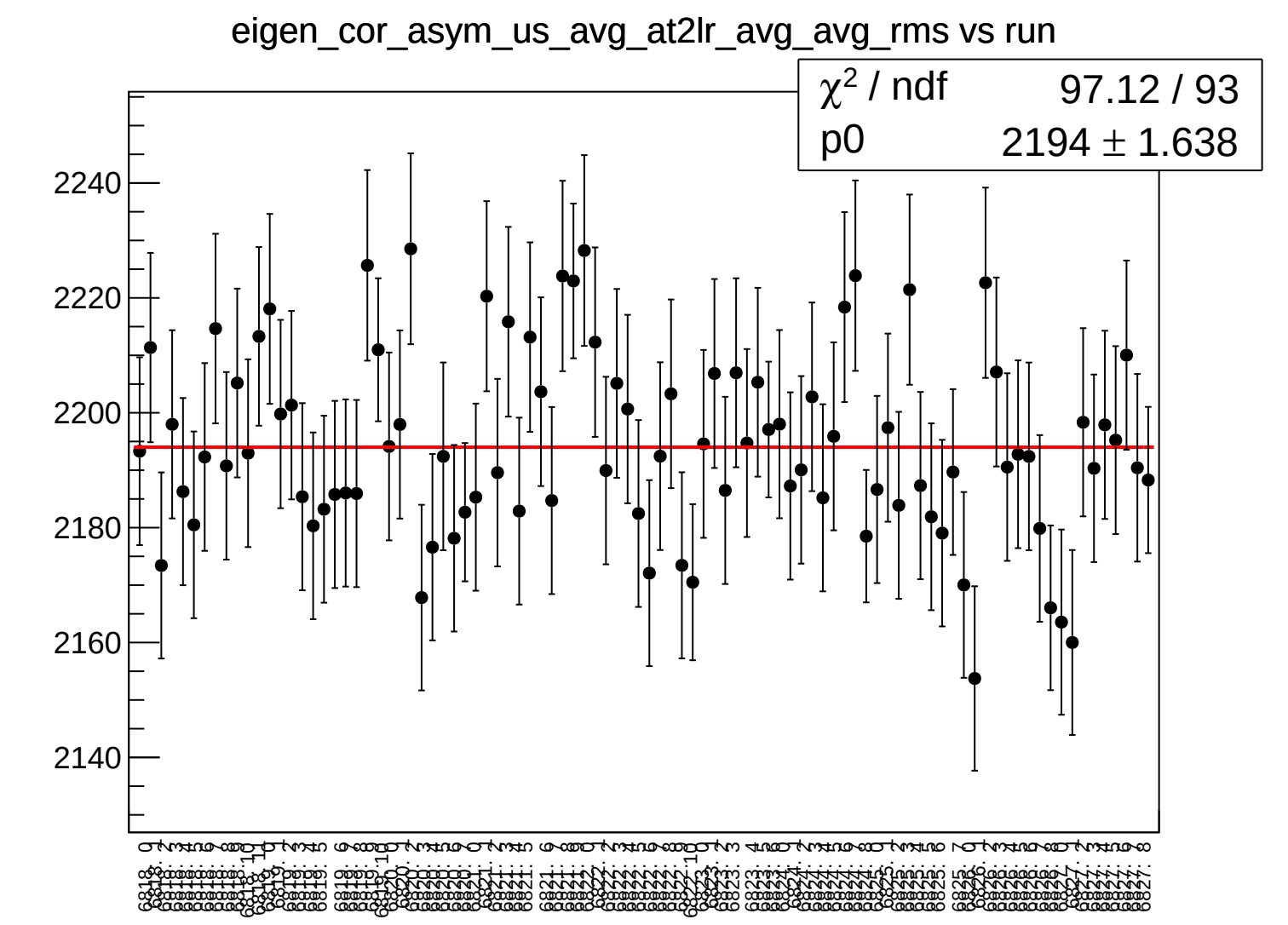

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.12 / 93
p0 2194 ± 1.638
2240
2220
2200
2180
2160
2140

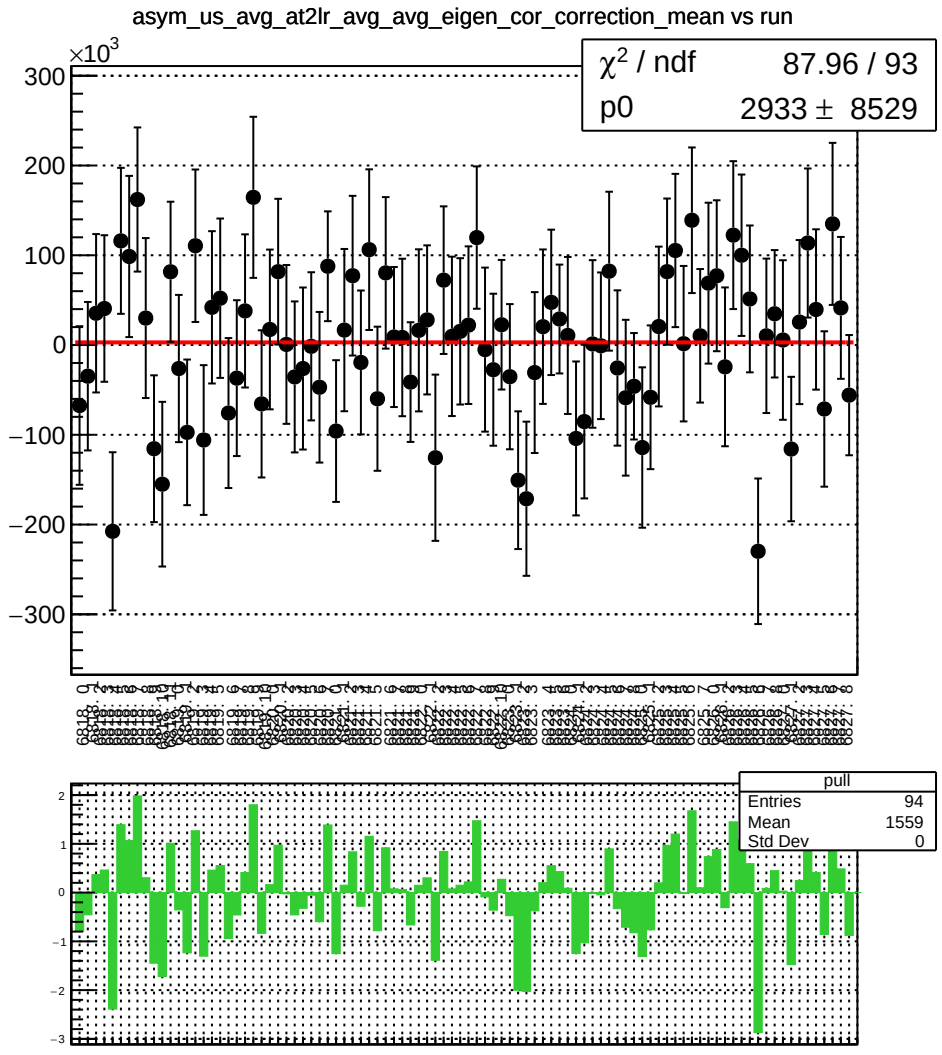

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.96 / 93
p0 2933 ± 8529
pull
Entries 94
Mean 1559
Std Dev 0
pull1D
Entries 94
Mean 0.000726
Std Dev 0.9673

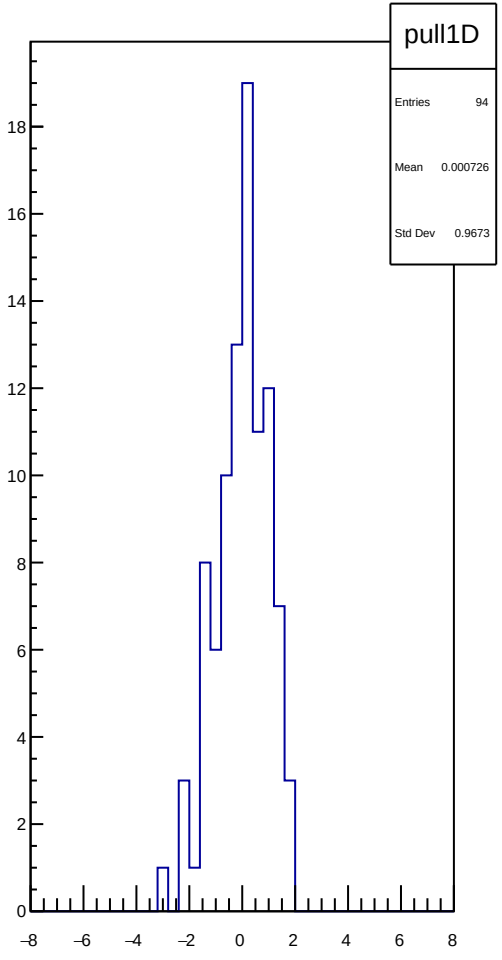

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4917 / 93
p0 8070 ± 6.031
10500
10000
9500
9000
8500
8000
7500
7000

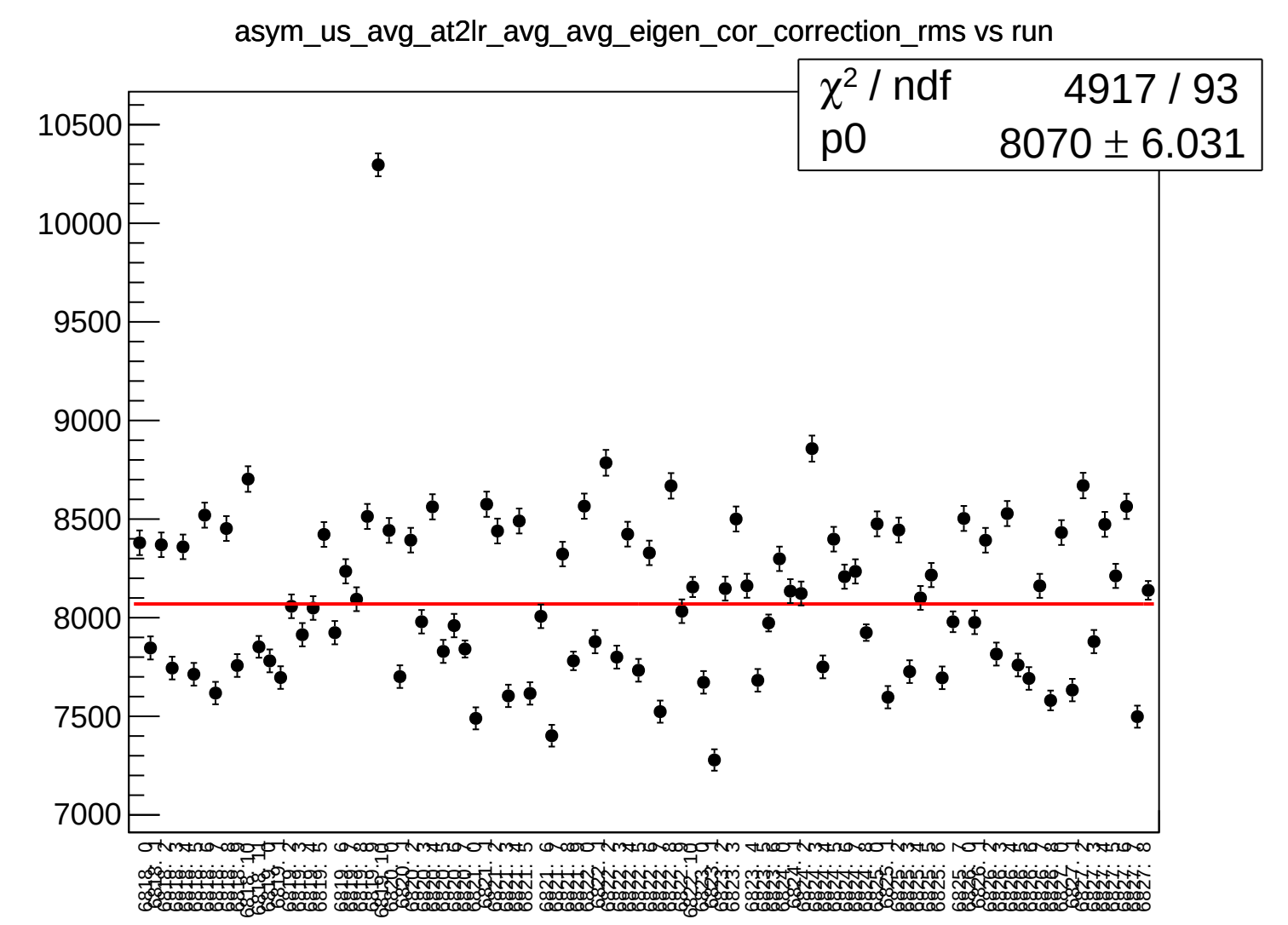

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 99.17 / 93
p0 −4887 ± 2316
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −219.4
Std Dev 0
2
1
0
−1
−2

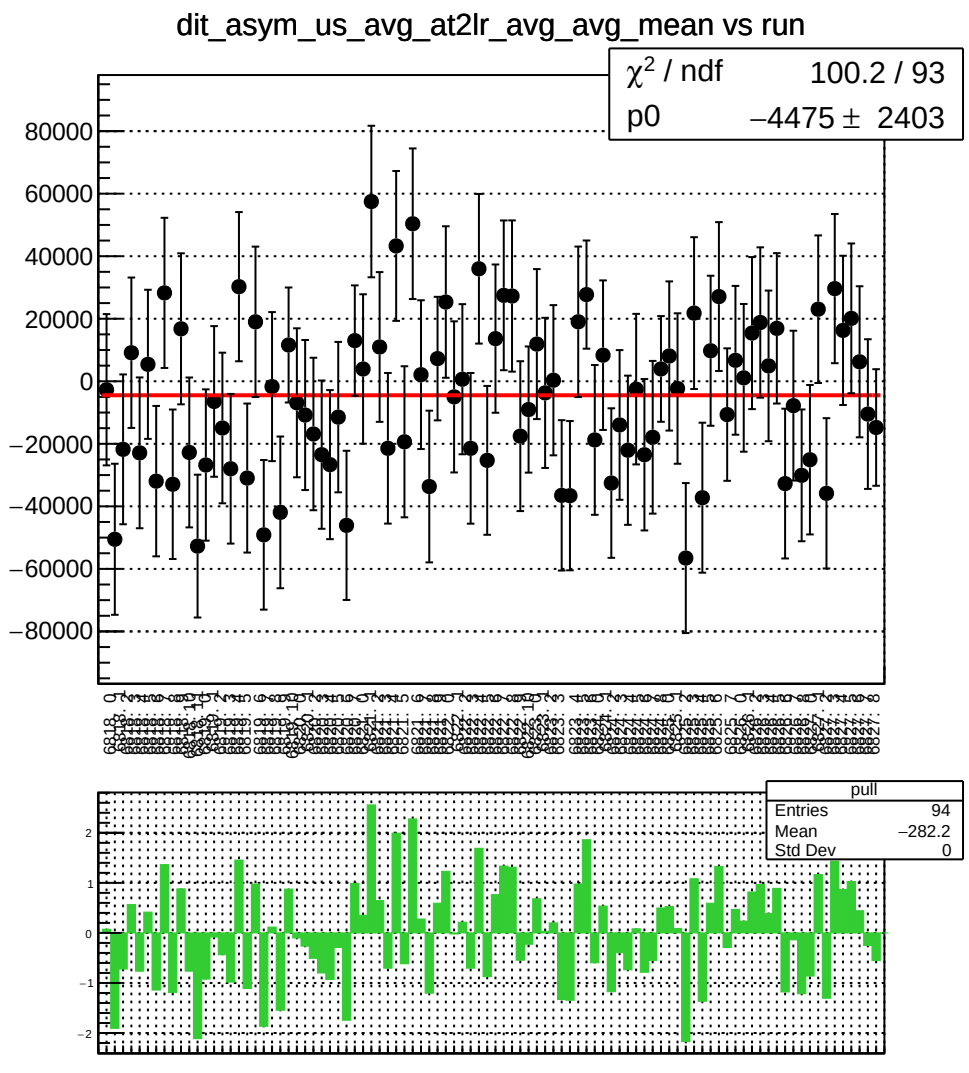

pull1D
Entries 94
Mean −0.01469
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

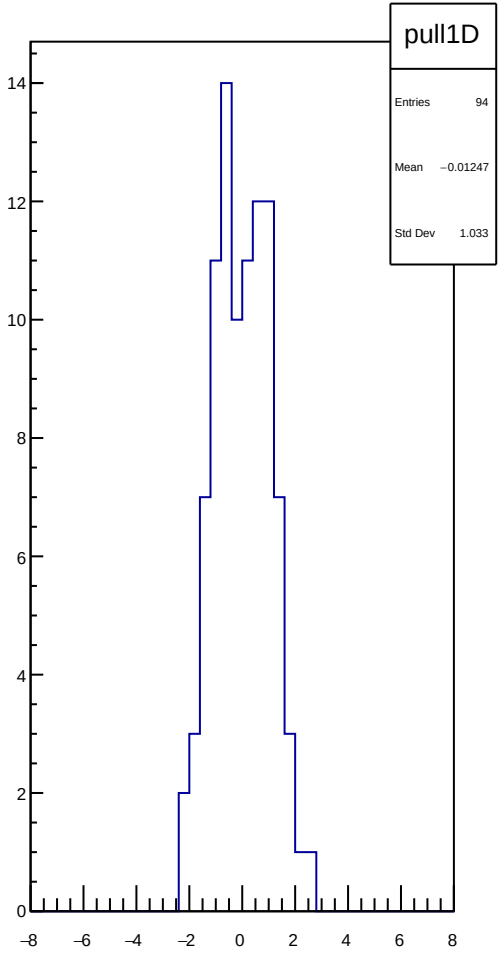

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 97.12 / 93
p0 2194 ± 1.638
2240
2220
2200
2180
2160
2140

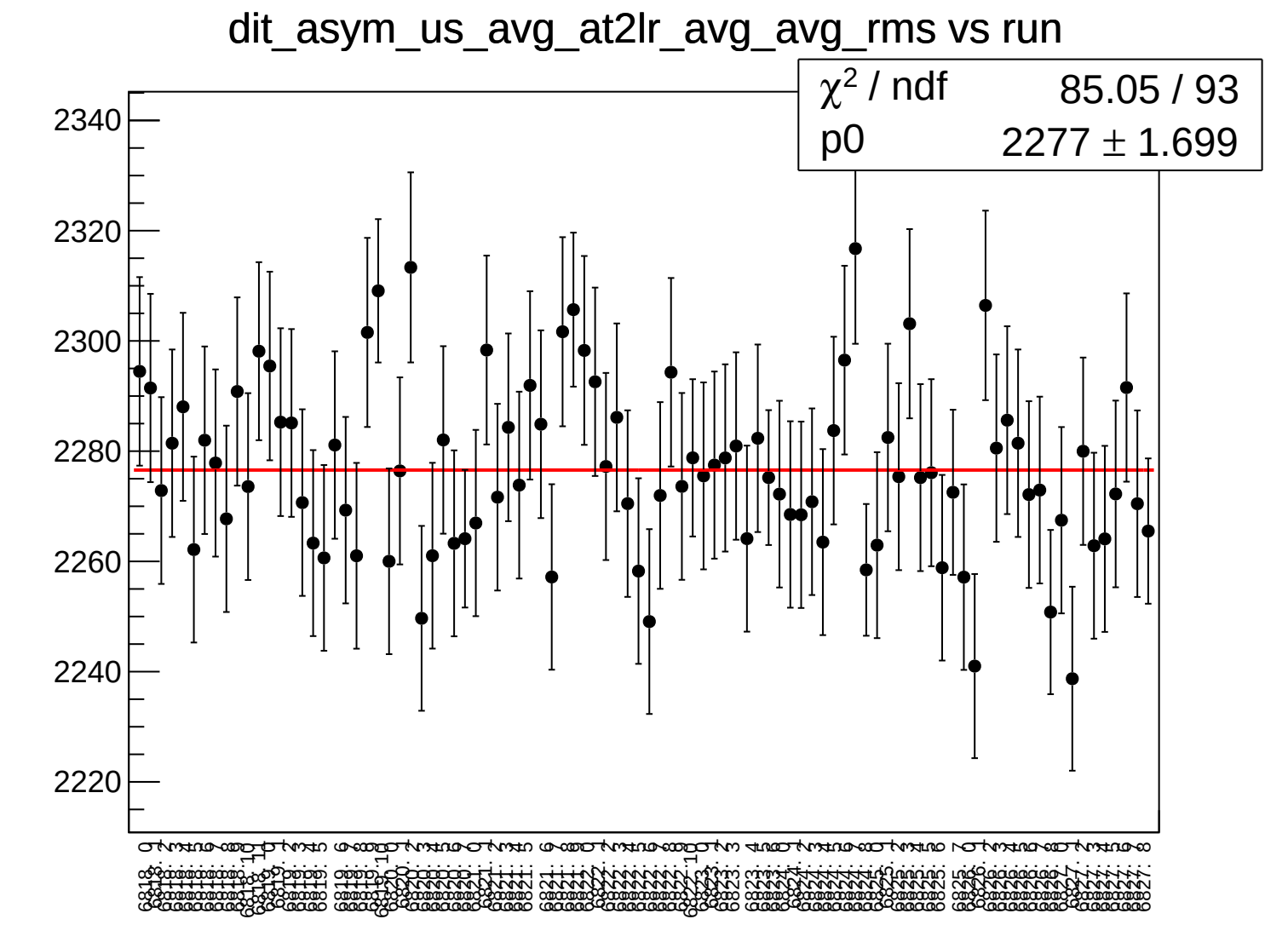

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.96 / 93
p0 2933 ± 8529
pull
Entries 94
Mean 1559
Std Dev 0

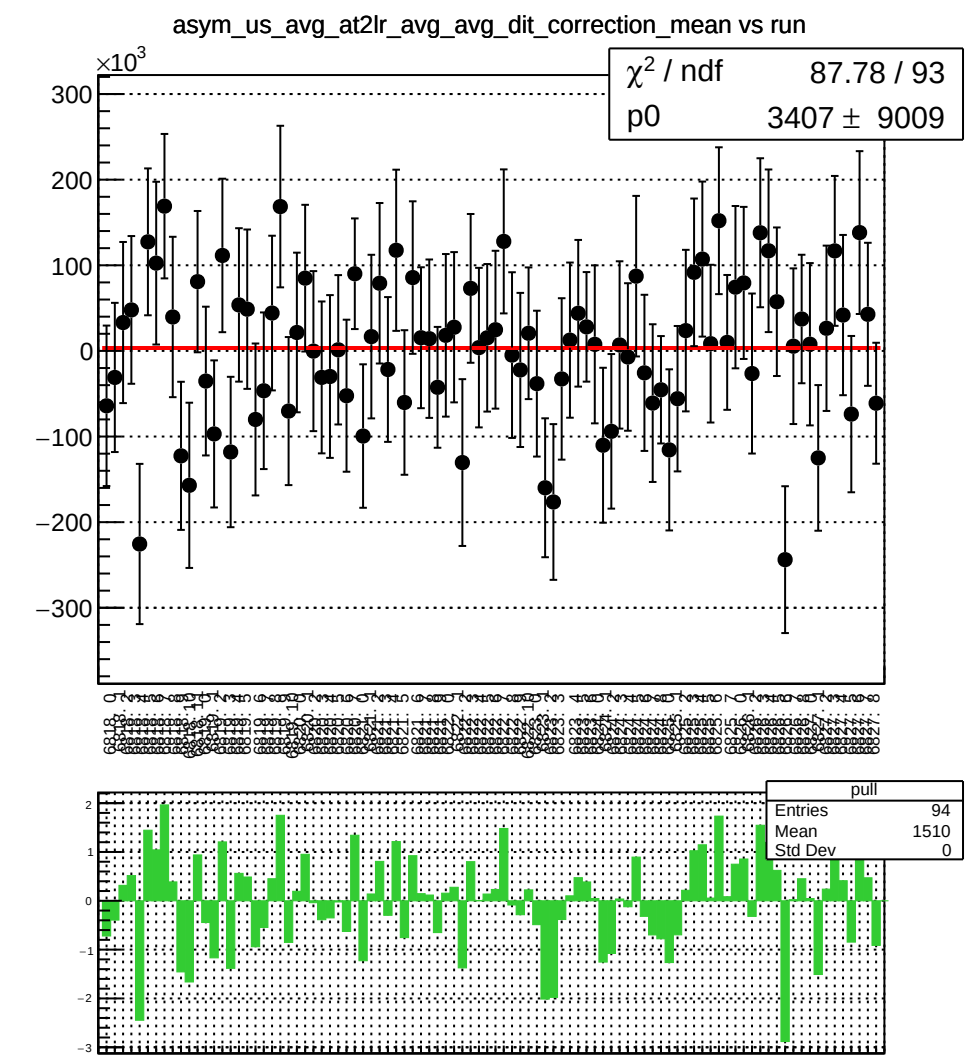

pull1D
Entries 94
Mean 0.000726
Std Dev 0.9673

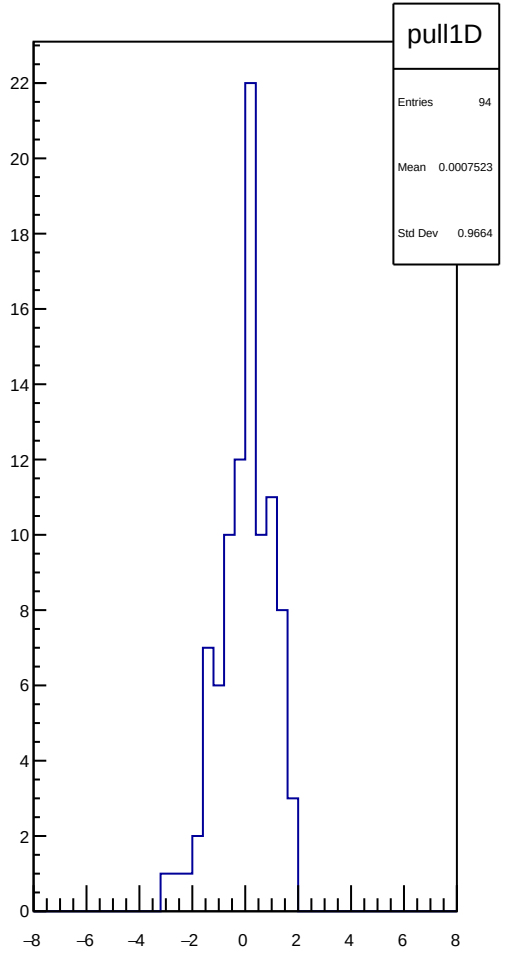

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4917 / 93
p0 8070 ± 6.031
10500
10000
9500
9000
8500
8000
7500
7000

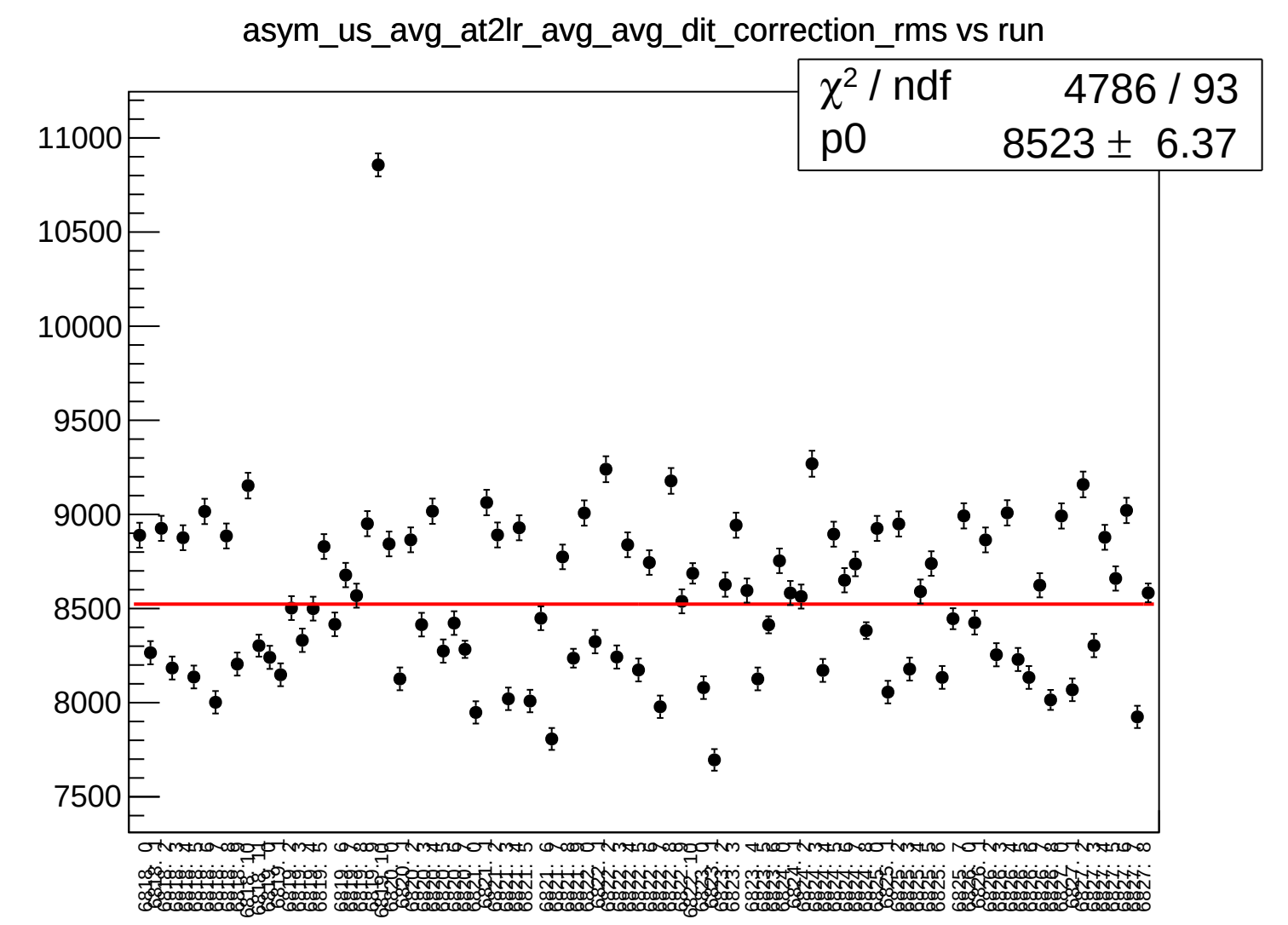

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 100.2 / 93
p0 −4475 ± 2403
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −282.2
Std Dev 0
2
1
0
−1
−2

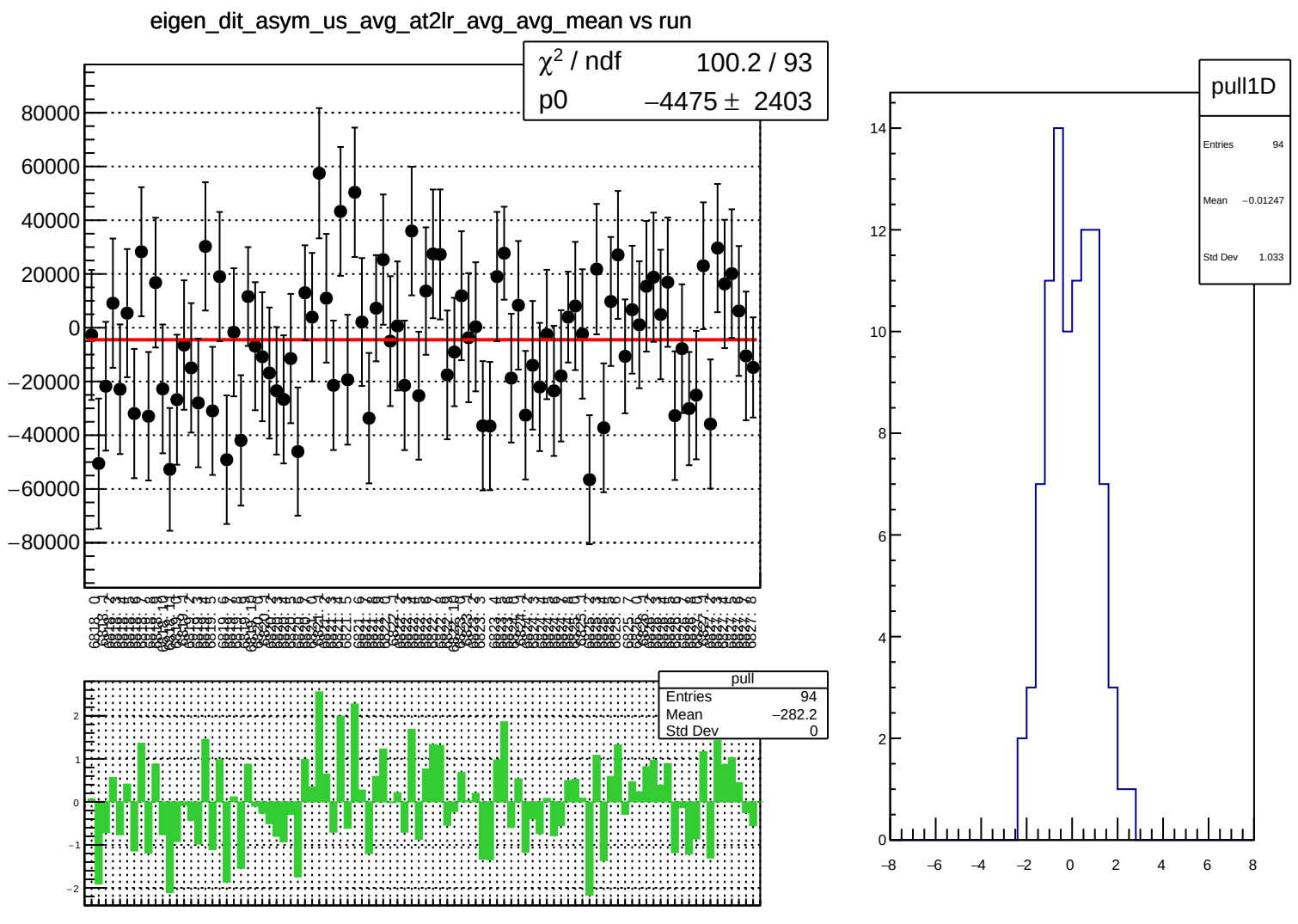

pull1D
Entries 94
Mean −0.01247
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

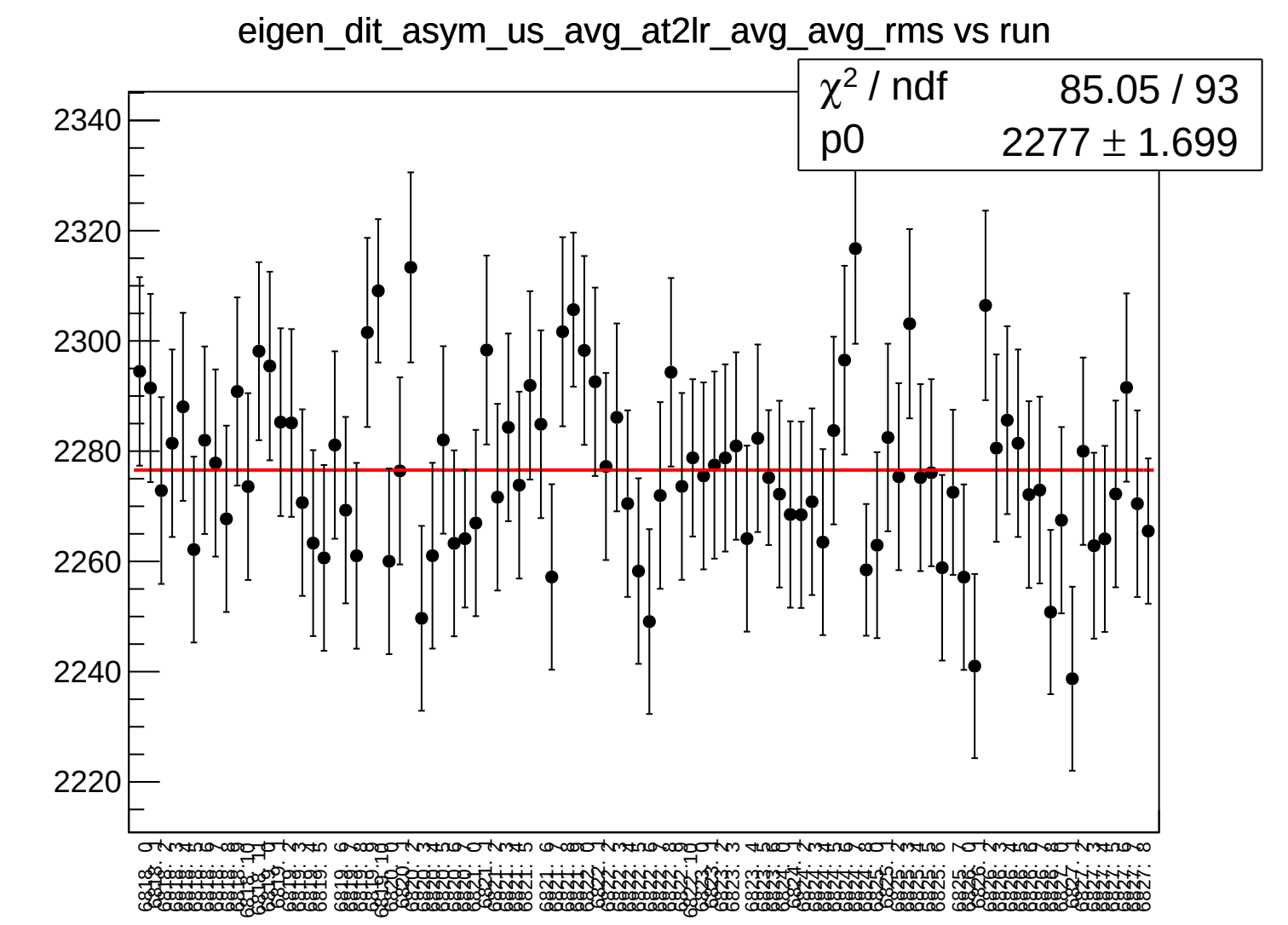

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 85.05 / 93
p0 2277 ± 1.699
2340
2320
2300
2280
2260
2240
2220

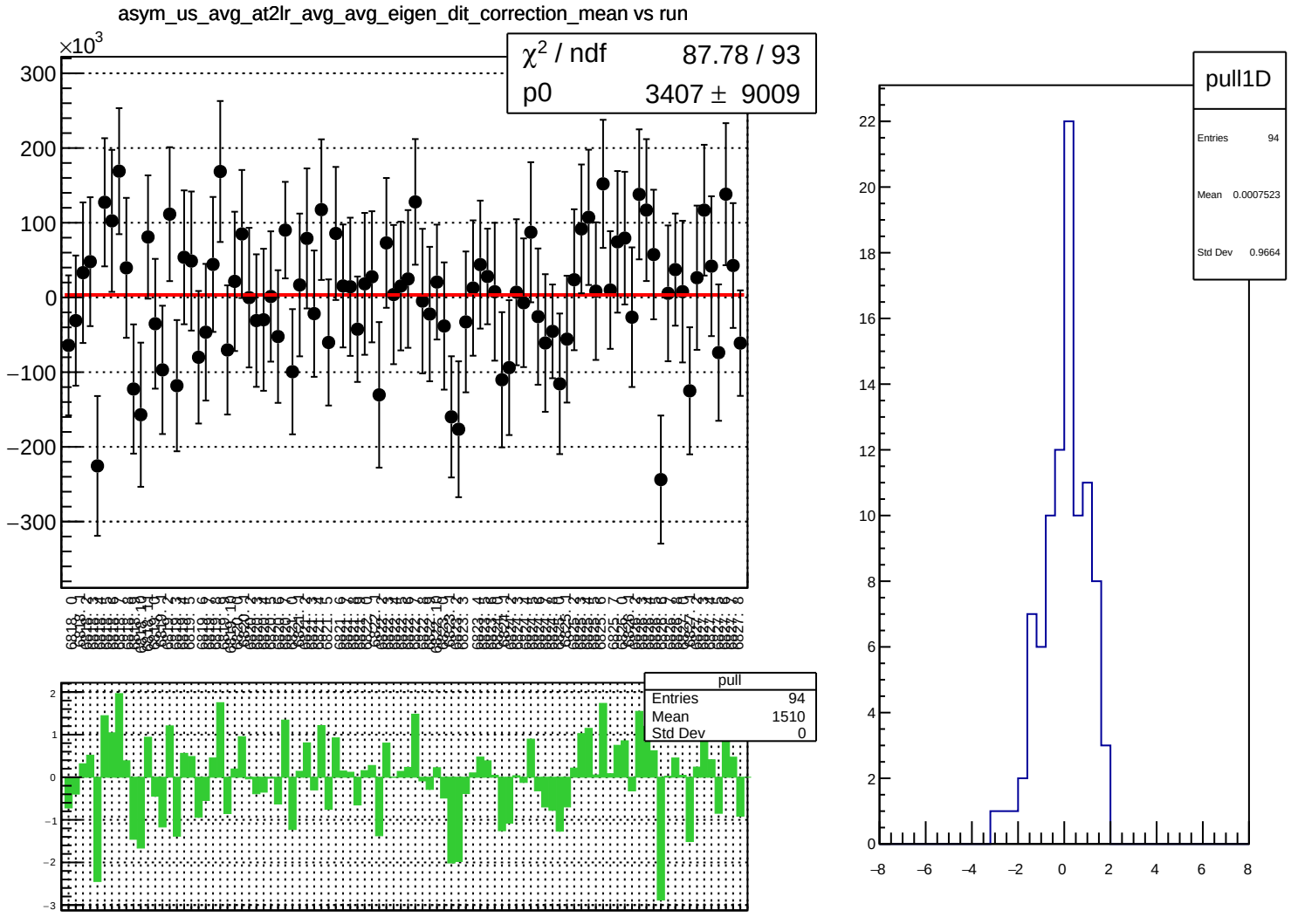

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.78 / 93
p0 3407 ± 9009
pull
Entries 94
Mean 1510
Std Dev 0

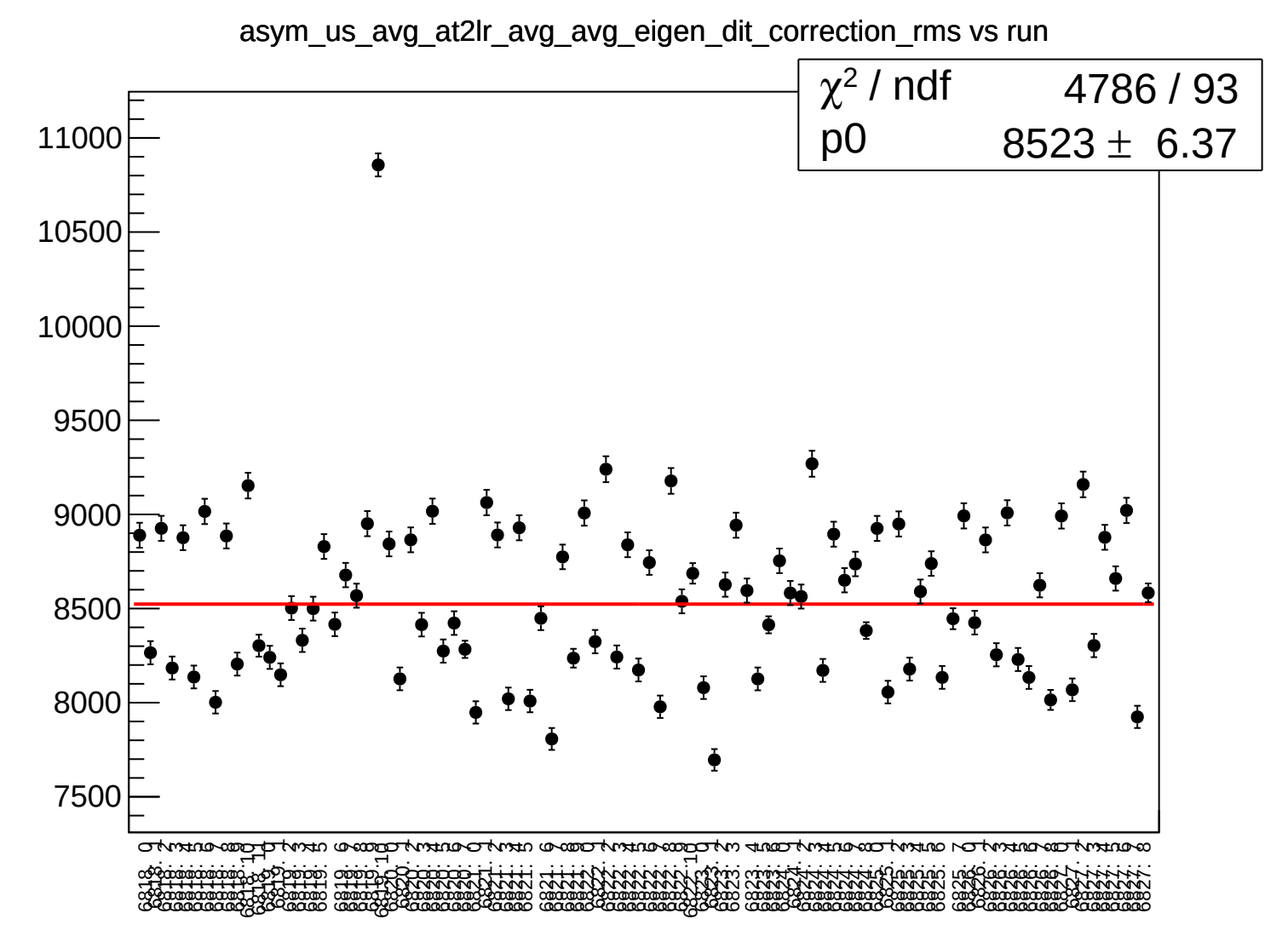

pull1D
Entries 94
Mean 0.0007523
Std Dev 0.9664

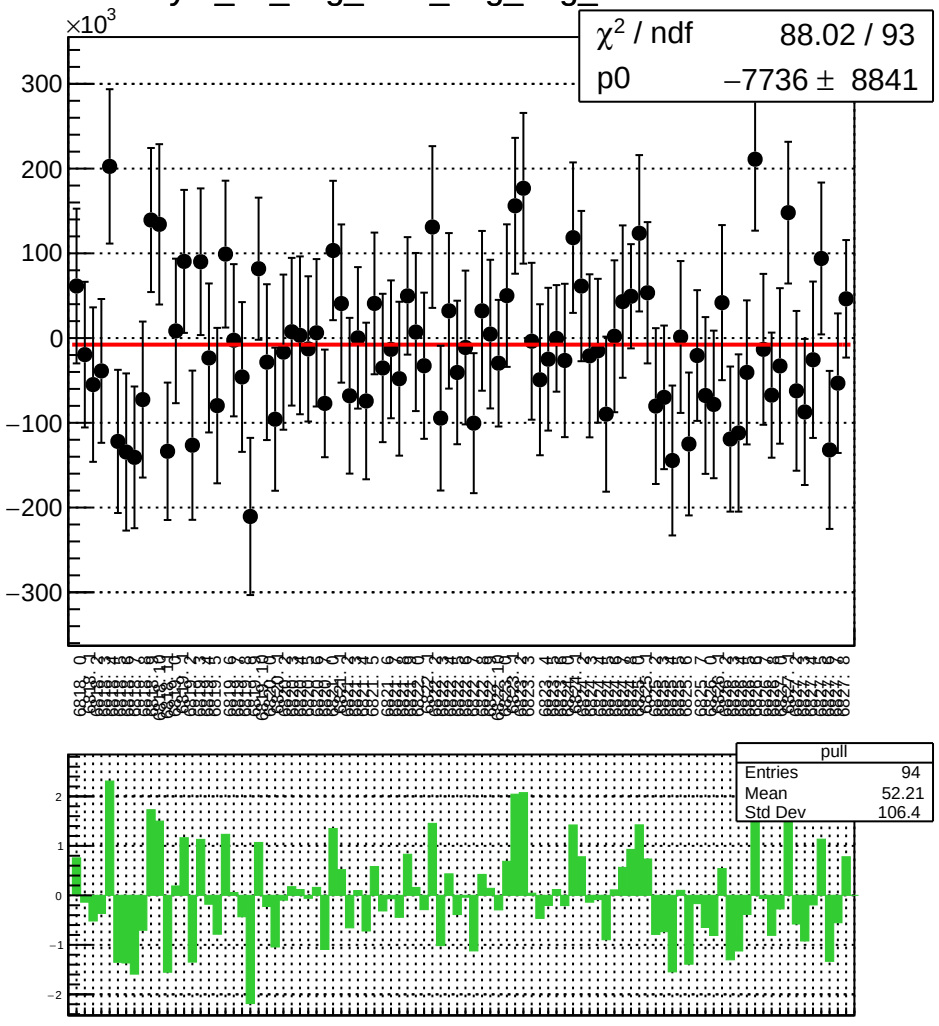

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4786 / 93
p0 8523 ± 6.37
11000
10500
10000
9500
9000
8500
8000
7500

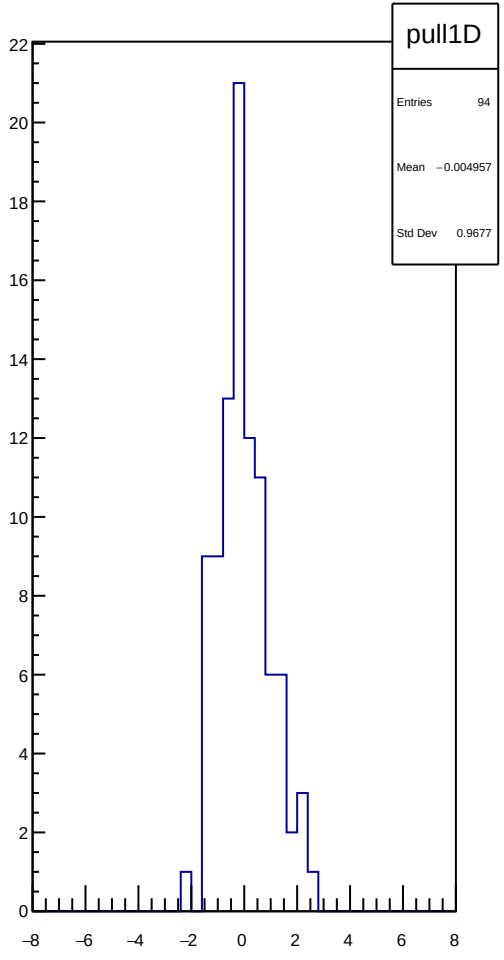

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 100.2 / 93
p0 −4475 ± 2403
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −282.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01247
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

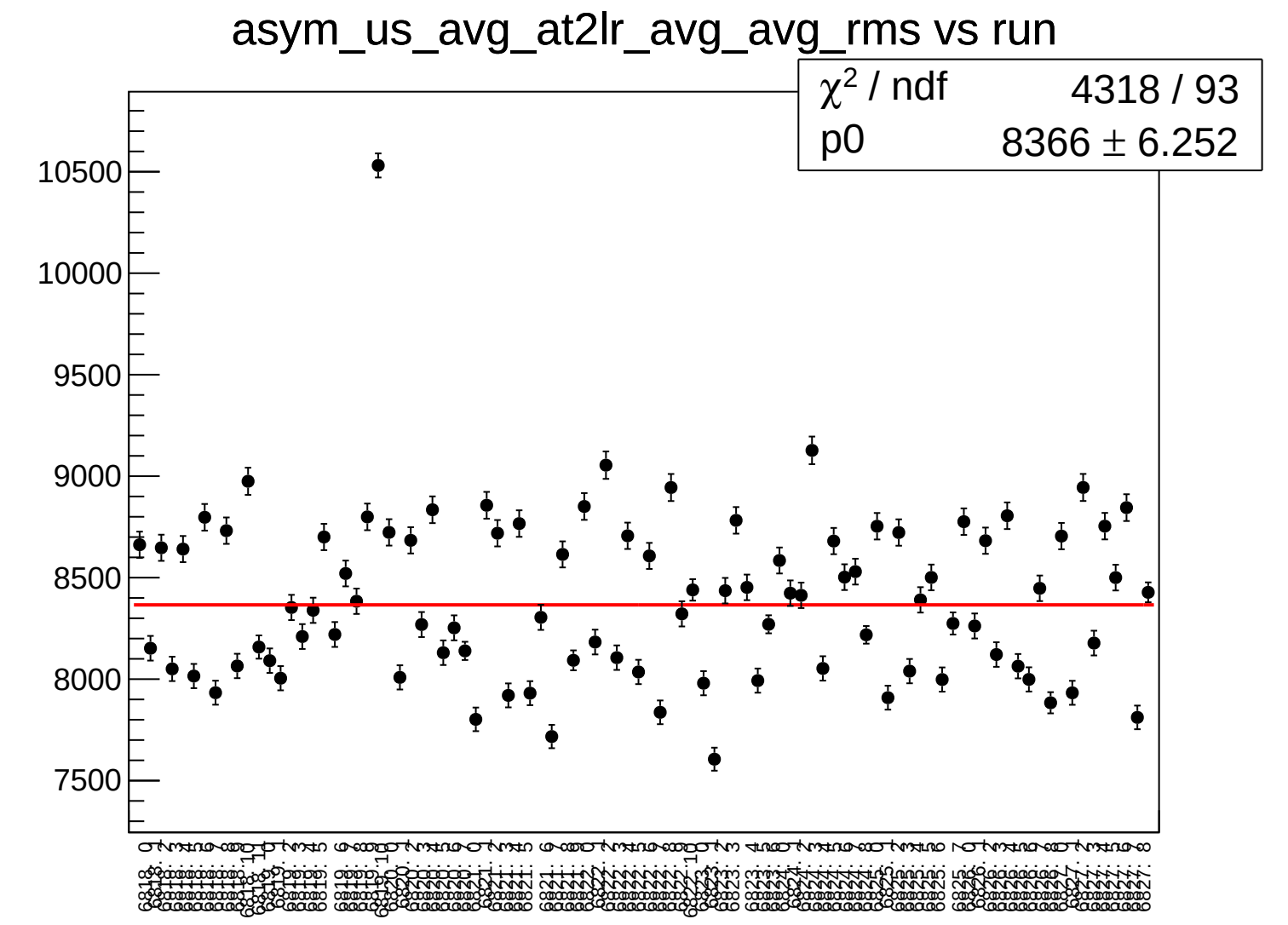

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 85.05 / 93
p0 2277 ± 1.699
2340
2320
2300
2280
2260
2240
2220

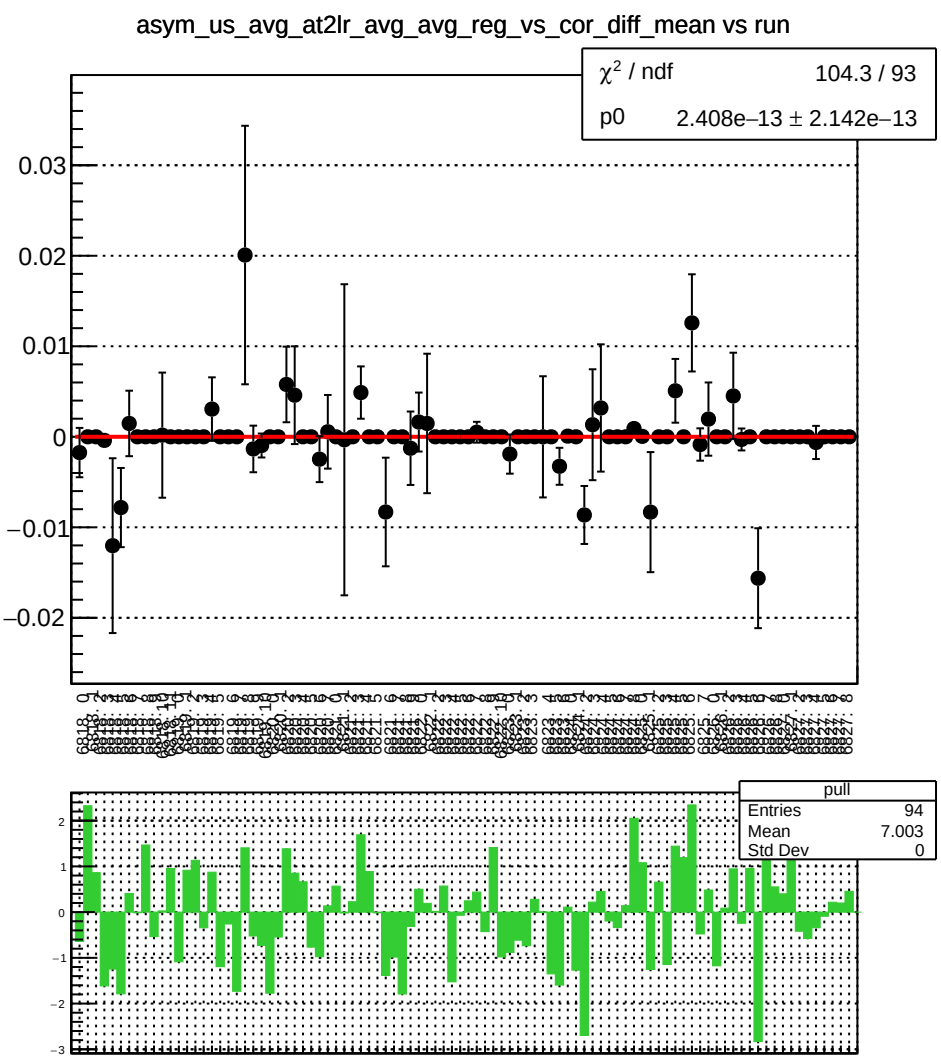

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 87.78 / 93
p0 3407 ± 9009
pull
Entries 94
Mean 1510
Std Dev 0
pull1D
Entries 94
Mean 0.0007523
Std Dev 0.9664

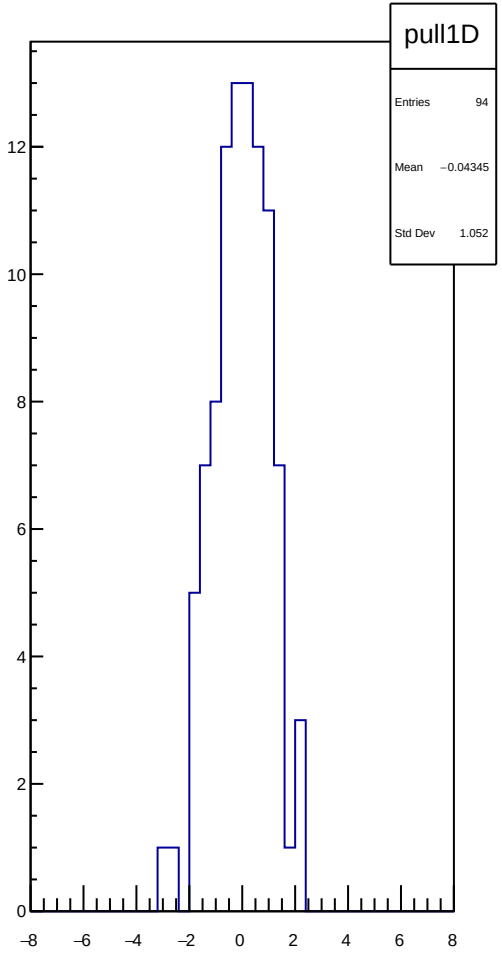

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4786 / 93
p0 8523 ± 6.37
11000
10500
10000
9500
9000
8500
8000
7500

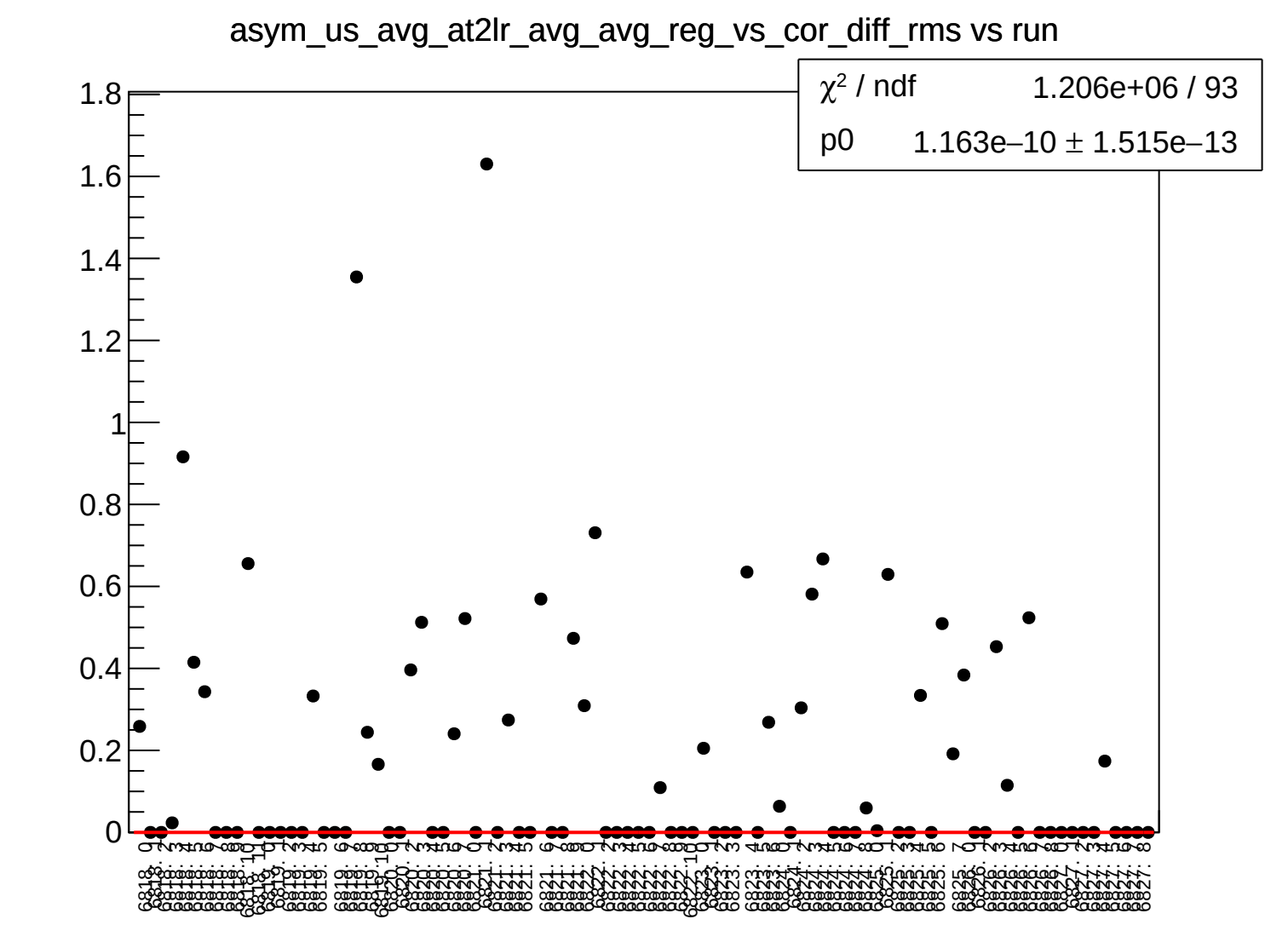

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 88.02 / 93
p0 −7736 ± 8841
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean 52.21
Std Dev 106.4
2
1
0
−1
−2

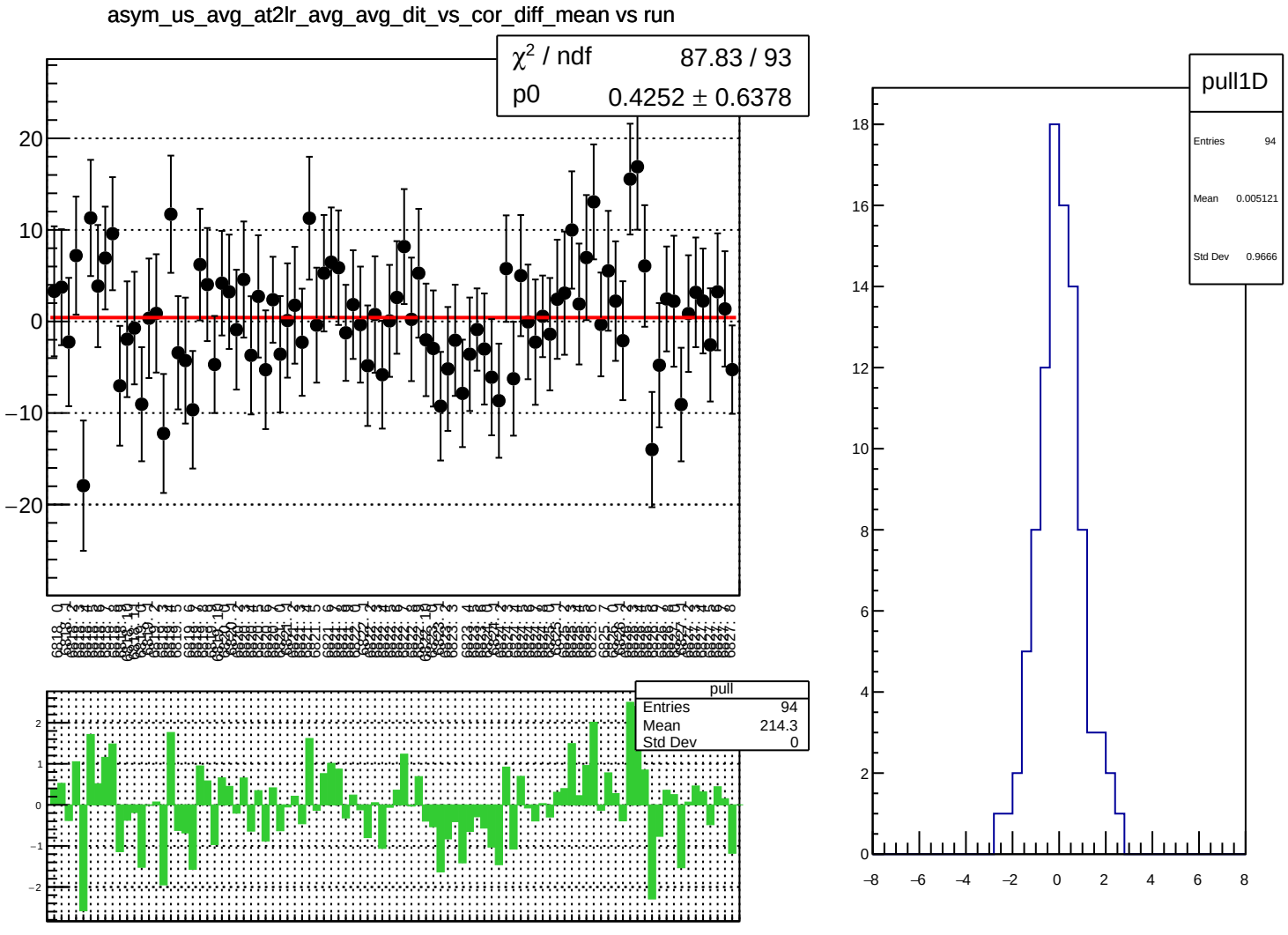

pull1D
Entries 94
Mean −0.004957
Std Dev 0.9677
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

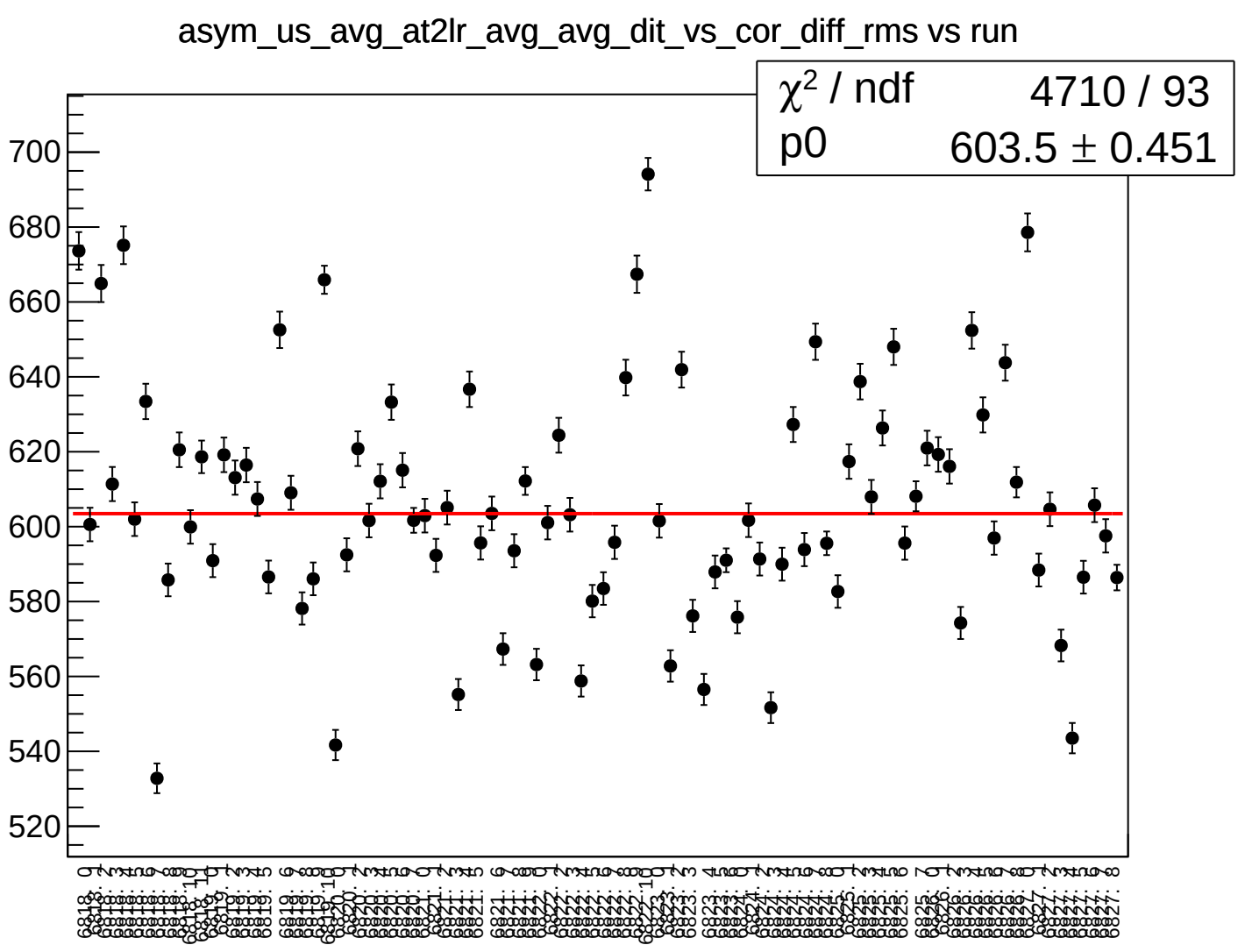

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4318 / 93
p0 8366 ± 6.252
10500
10000
9500
9000
8500
8000
7500

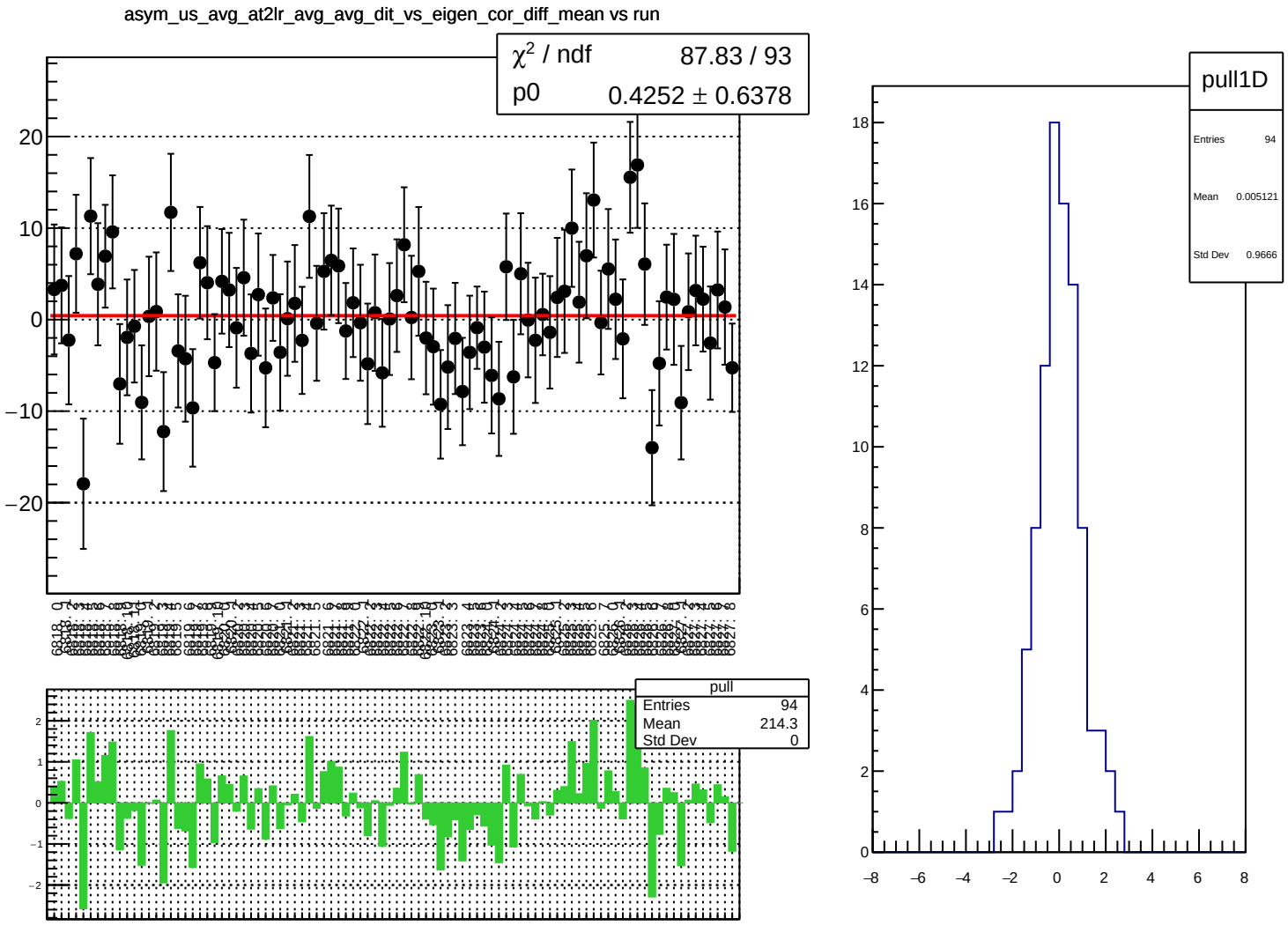

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 93
p0 2.408e−13 ± 2.142e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 7.003
Std Dev 0
2
1
0
−1
−2
−3

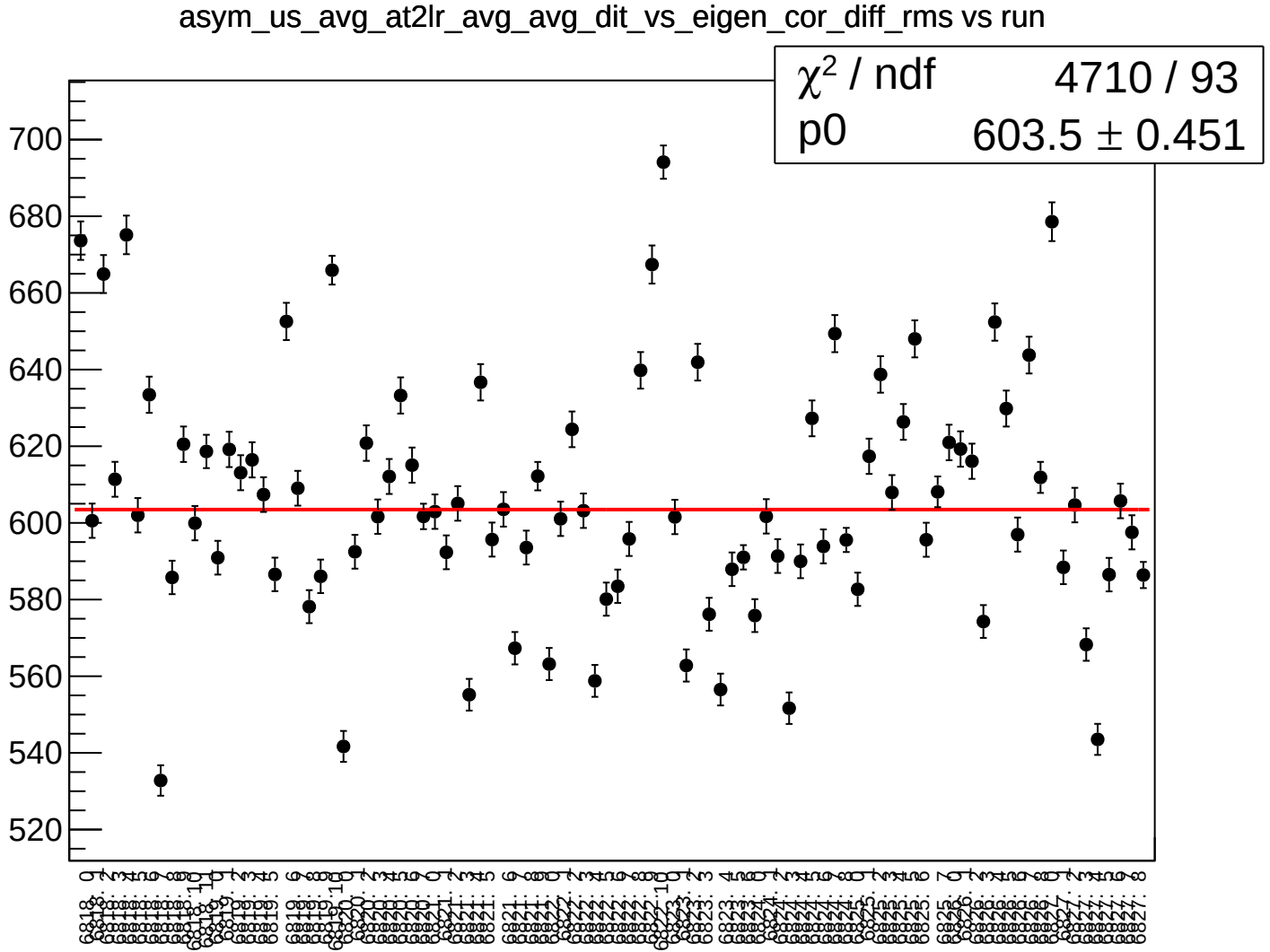

pull1D
Entries 94
Mean −0.04345
Std Dev 1.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

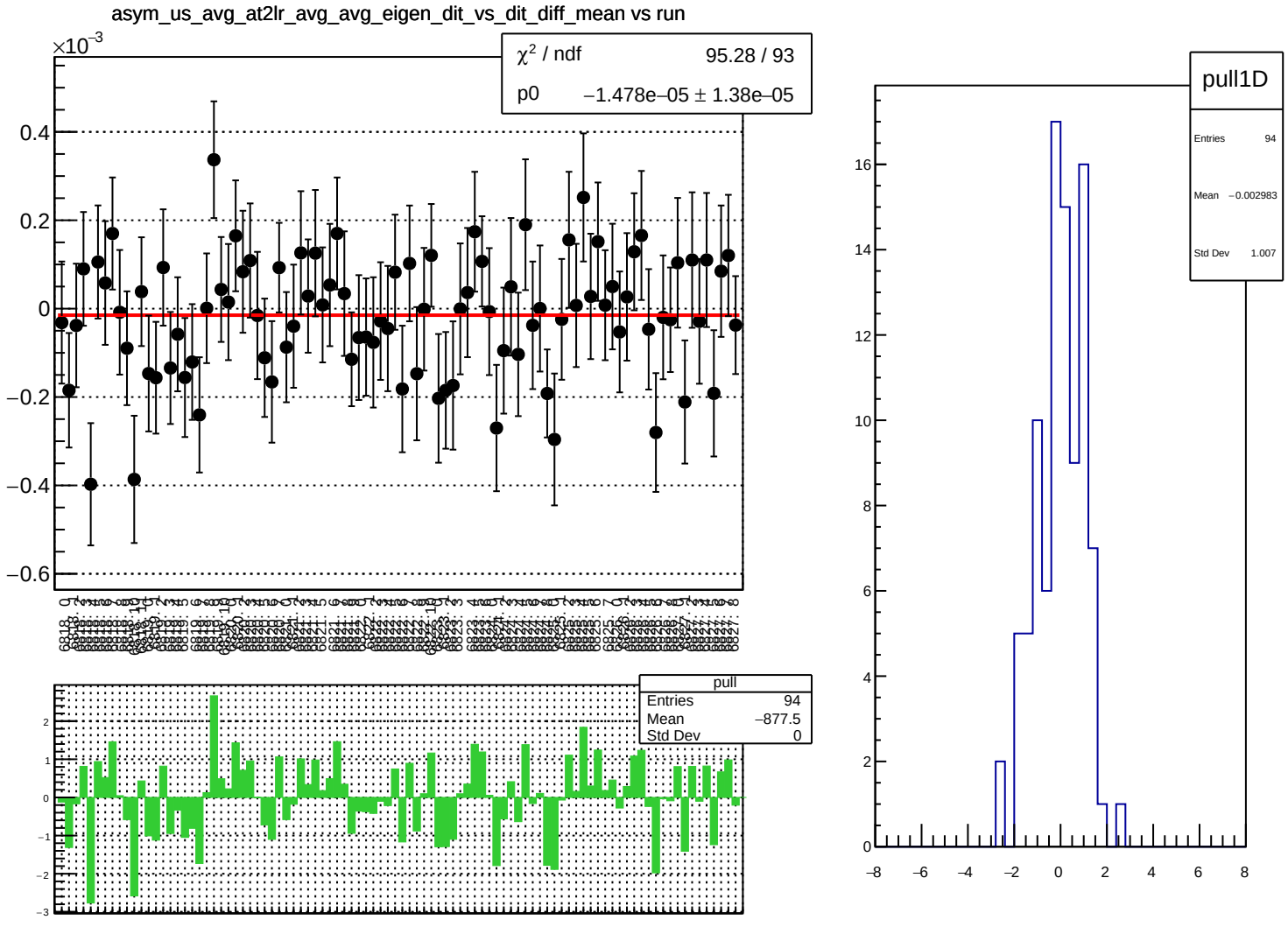

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.206e+06 / 93
p0 1.163e−10 ± 1.515e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

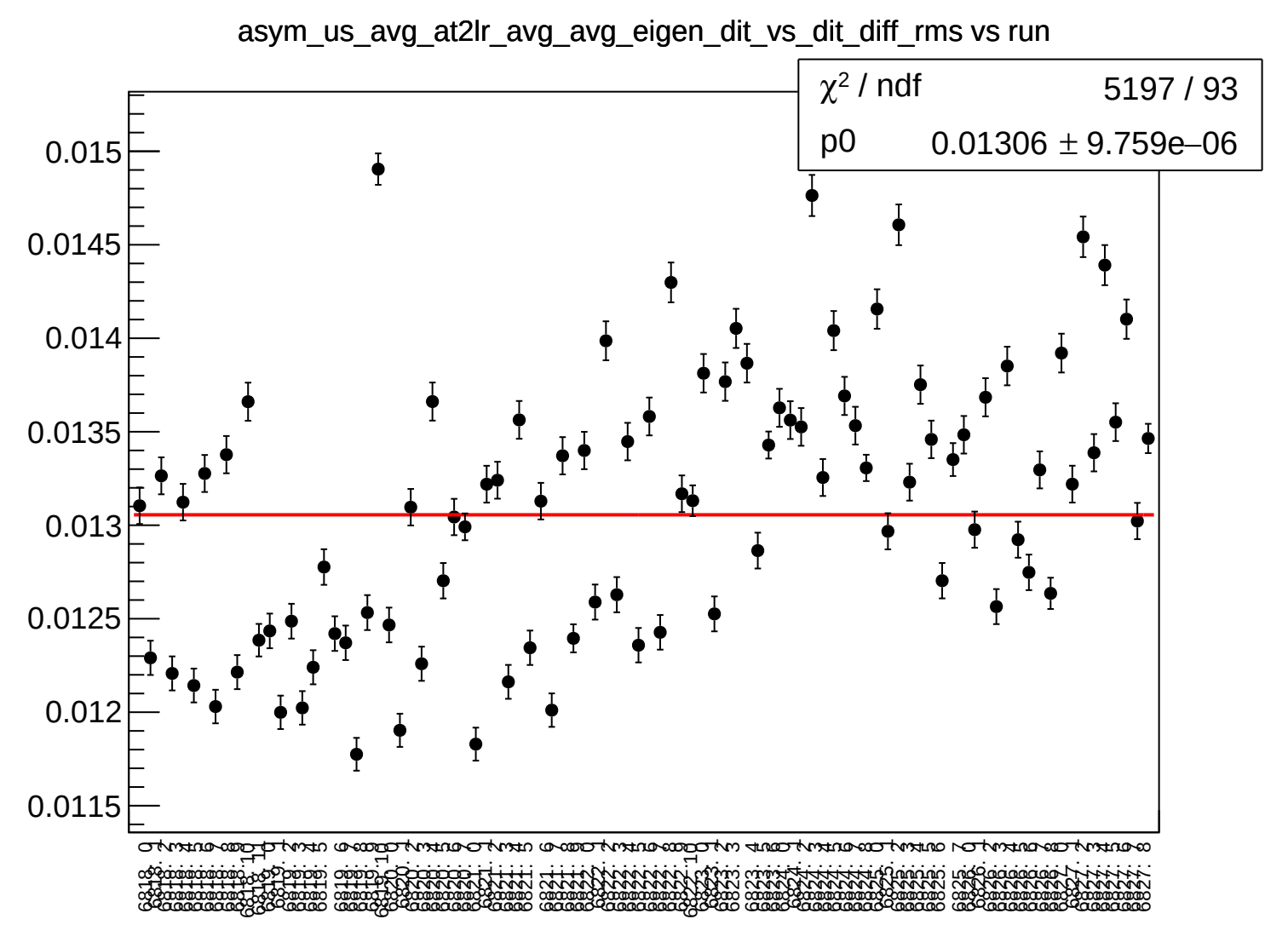

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.83 / 93
p0 0.4252 ± 0.6378
20
10
0
−10
−20
pull
Entries 94
Mean 214.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005121
Std Dev 0.9666
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

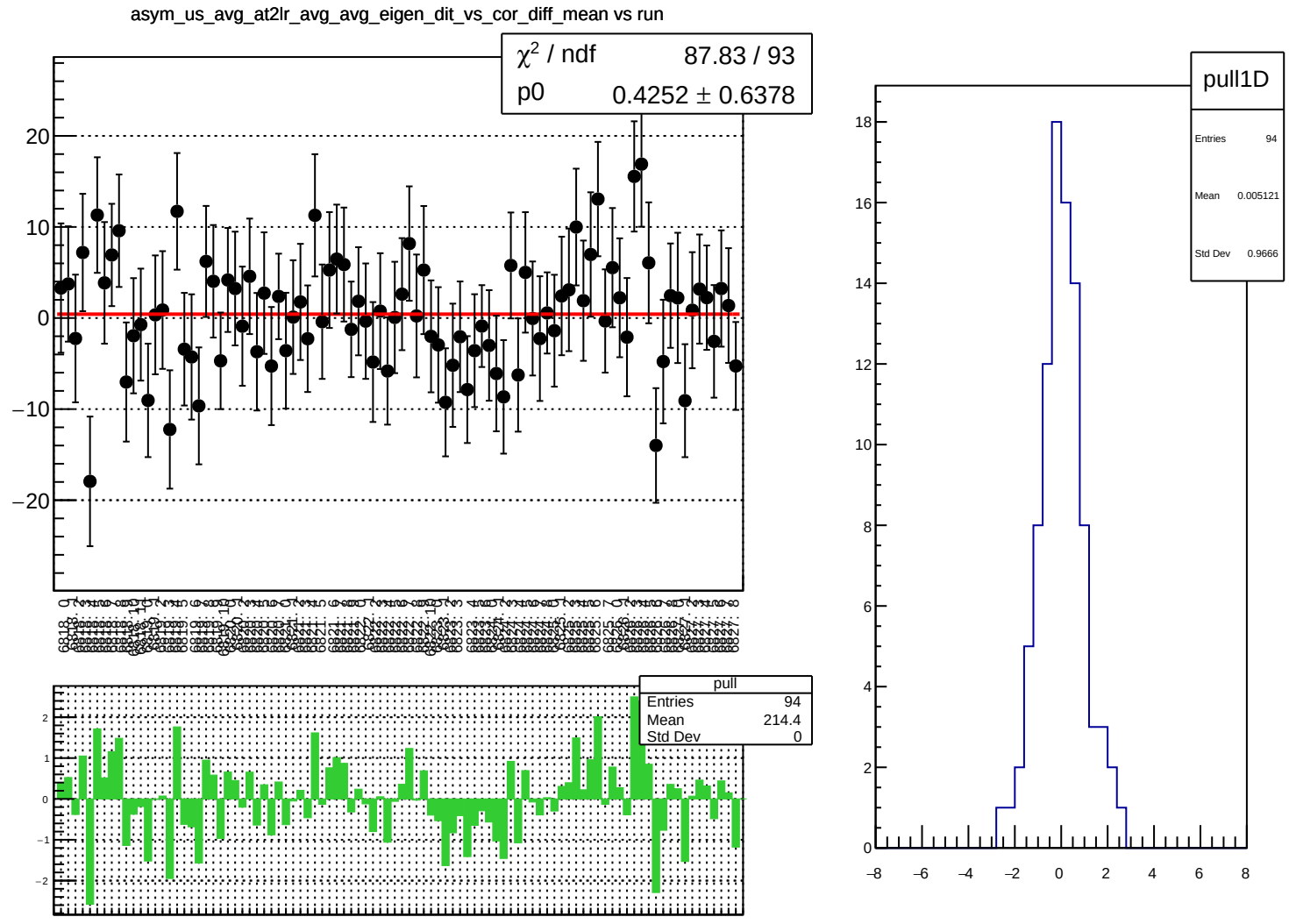

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4710 / 93
p0 603.5 ± 0.451
700
680
660
640
620
600
580
560
540
520

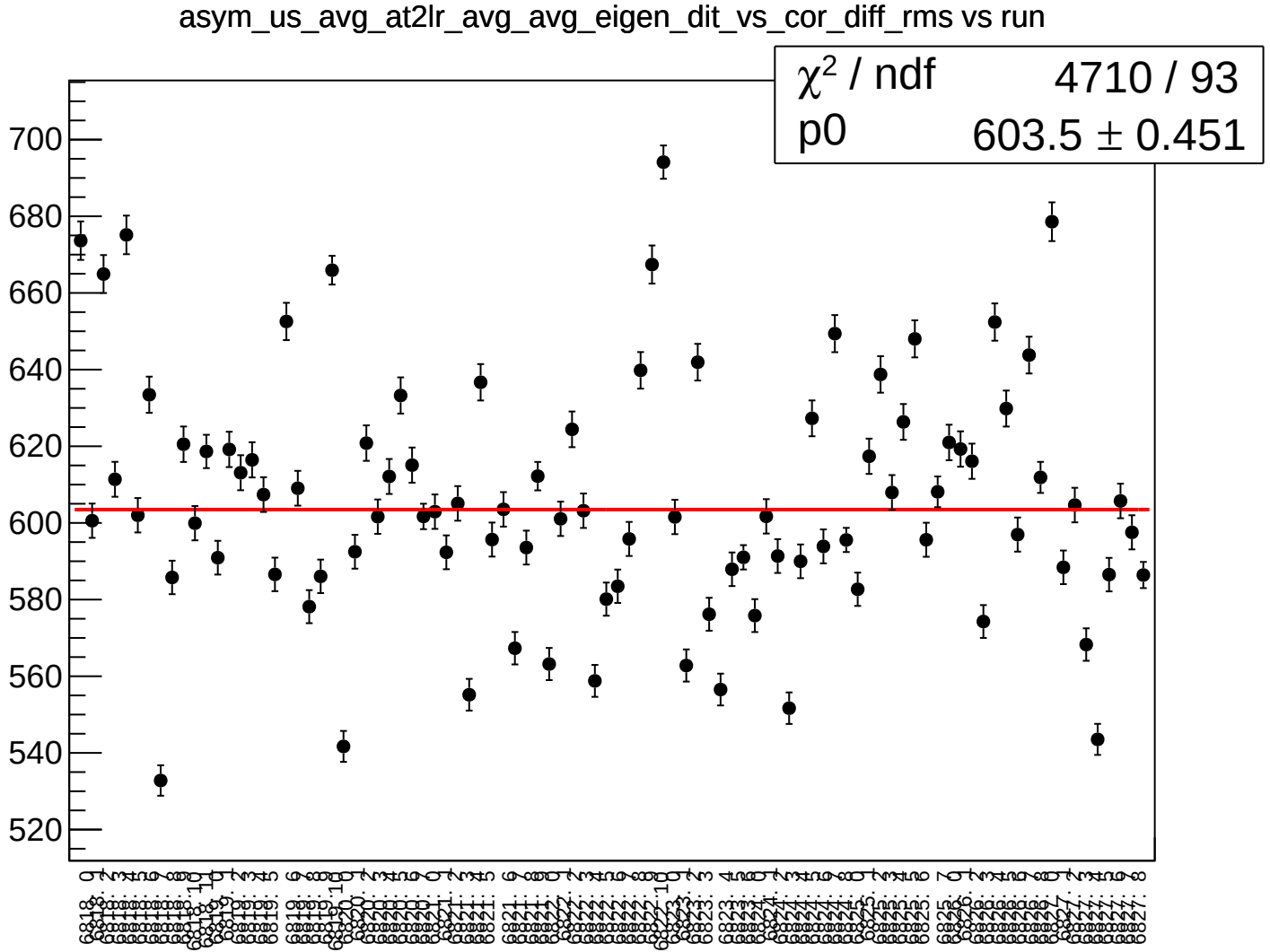

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.83 / 93
p0 0.4252 ± 0.6378
pull
Entries 94
Mean 214.3
Std Dev 0
pull1D
Entries 94
Mean 0.005121
Std Dev 0.9666

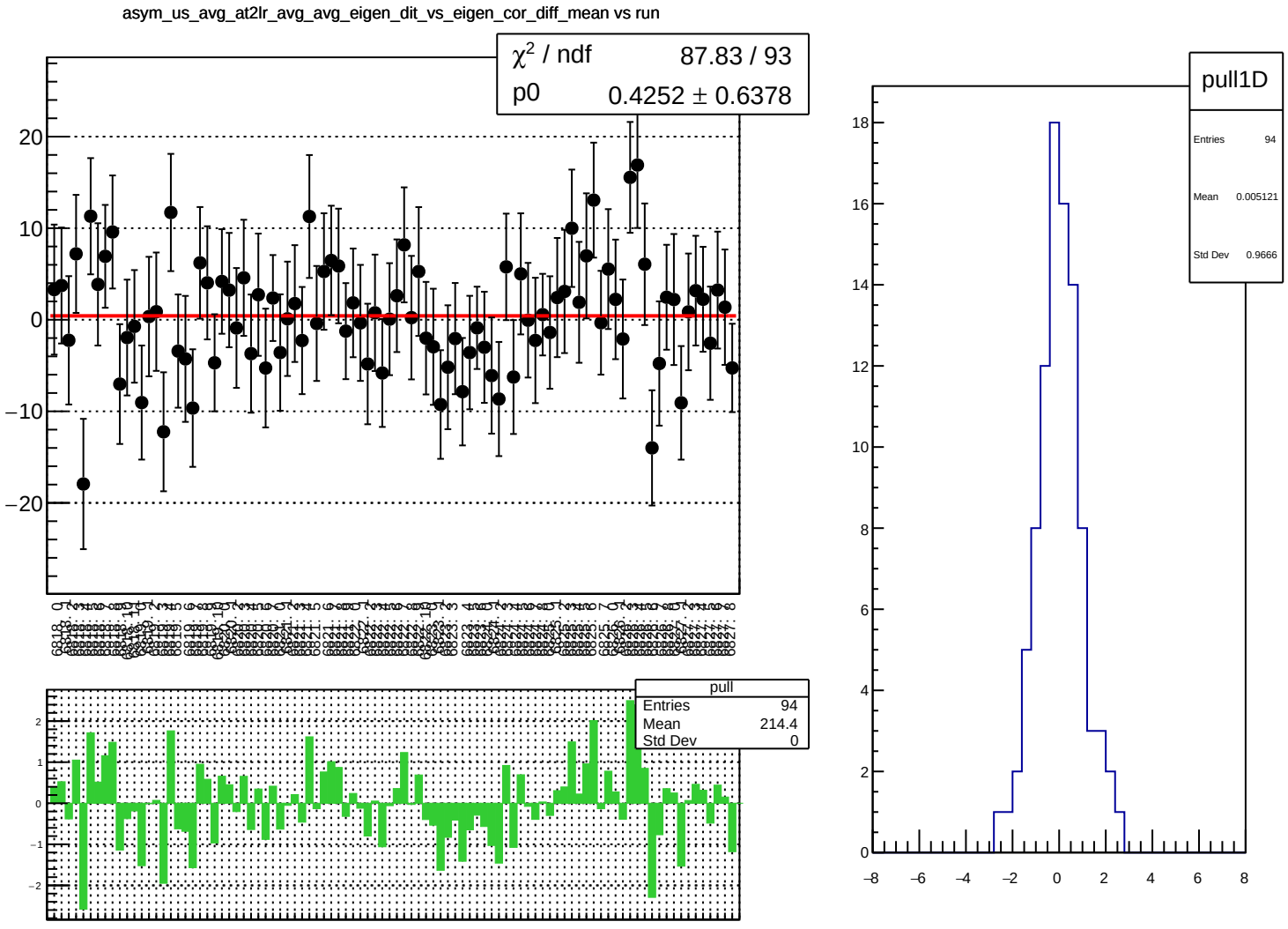

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4710 / 93
p0 603.5 ± 0.451
700
680
660
640
620
600
580
560
540
520

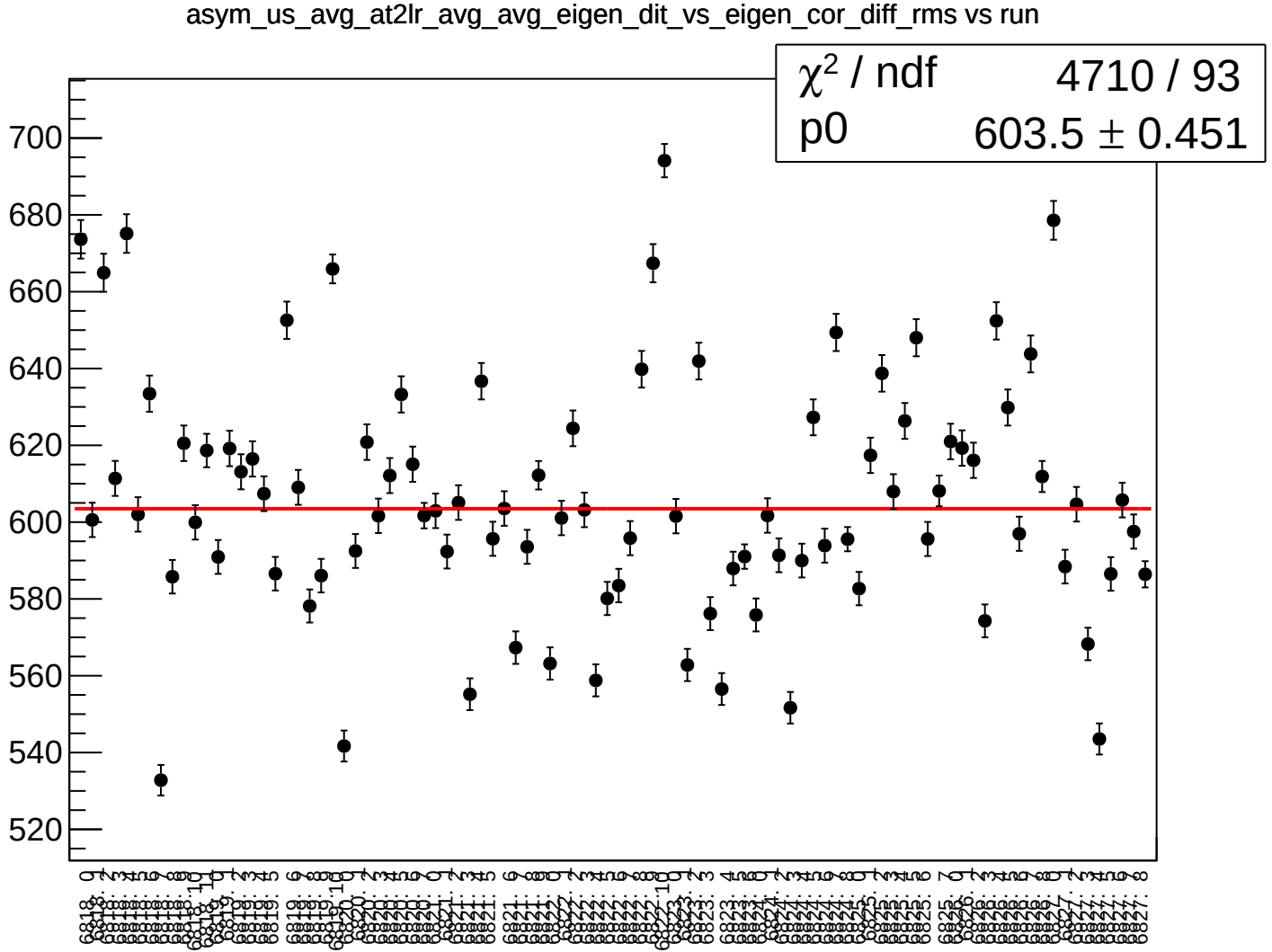

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.28 / 93
p0 −1.478e−05 ± 1.38e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −877.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.002983
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

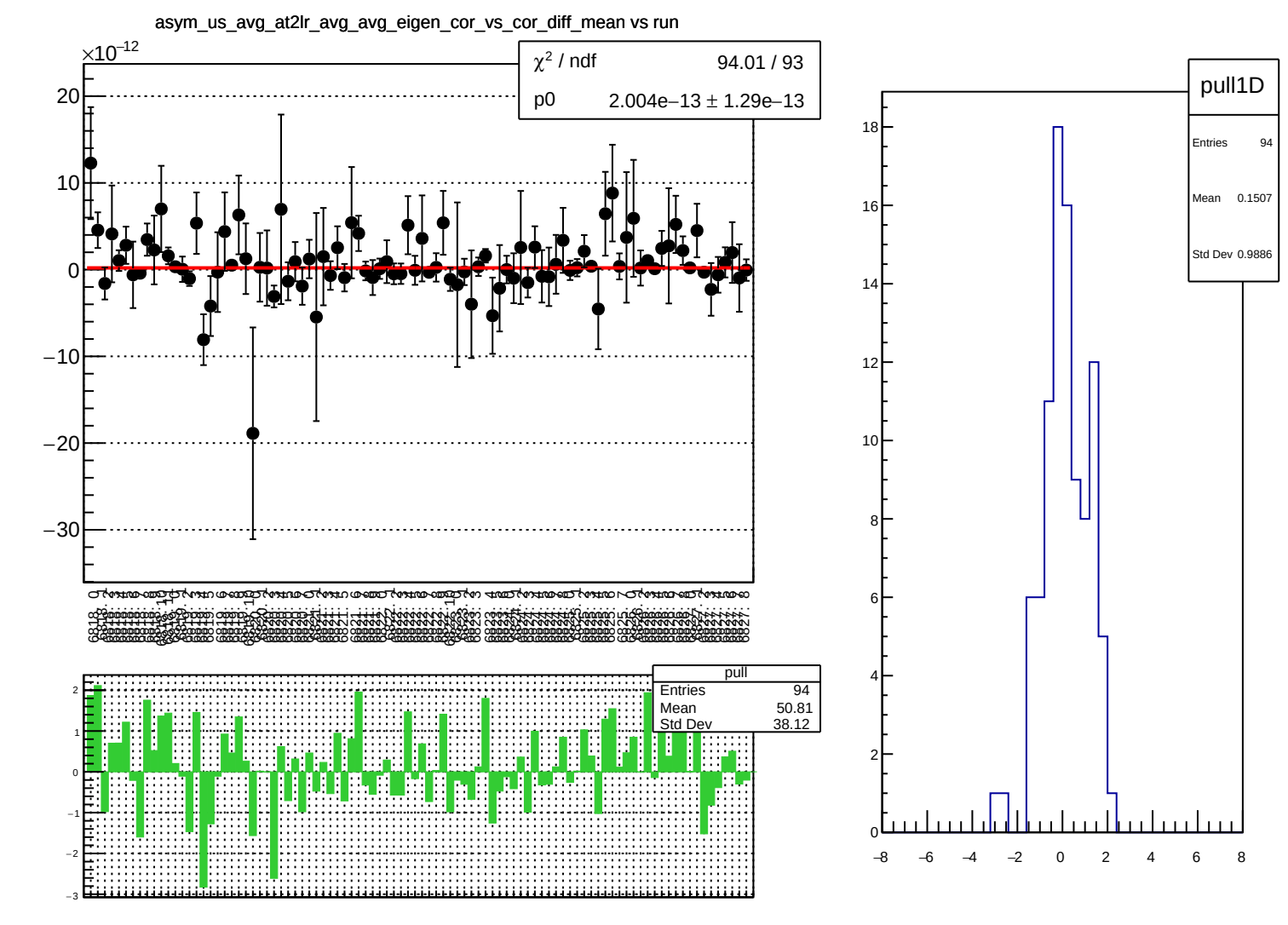

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5197 / 93
p0 0.01306 ± 9.759e−06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

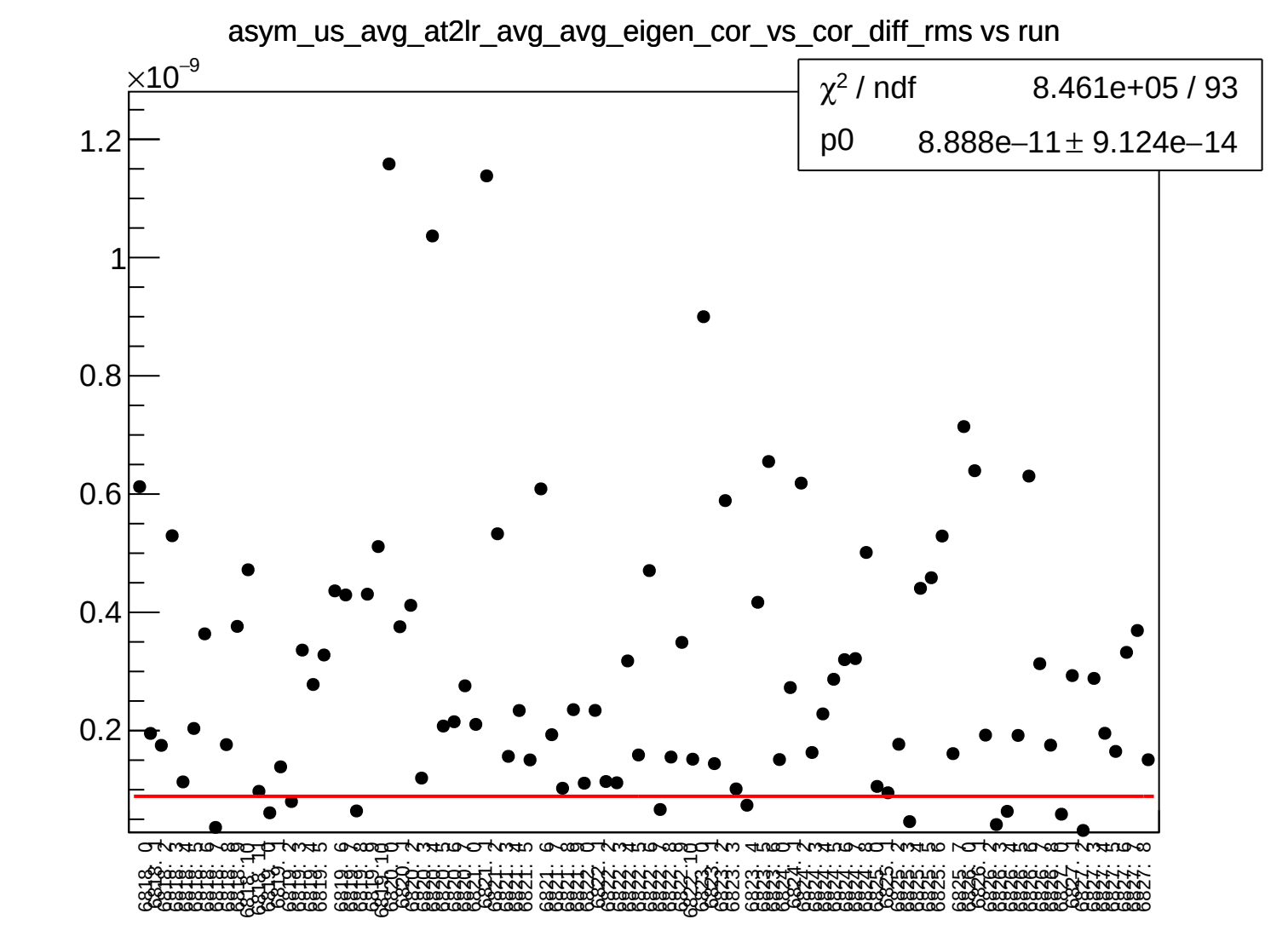

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.83 / 93
p0 0.4252 ± 0.6378
pull
Entries 94
Mean 214.4
Std Dev 0
pull1D
Entries 94
Mean 0.005121
Std Dev 0.9666

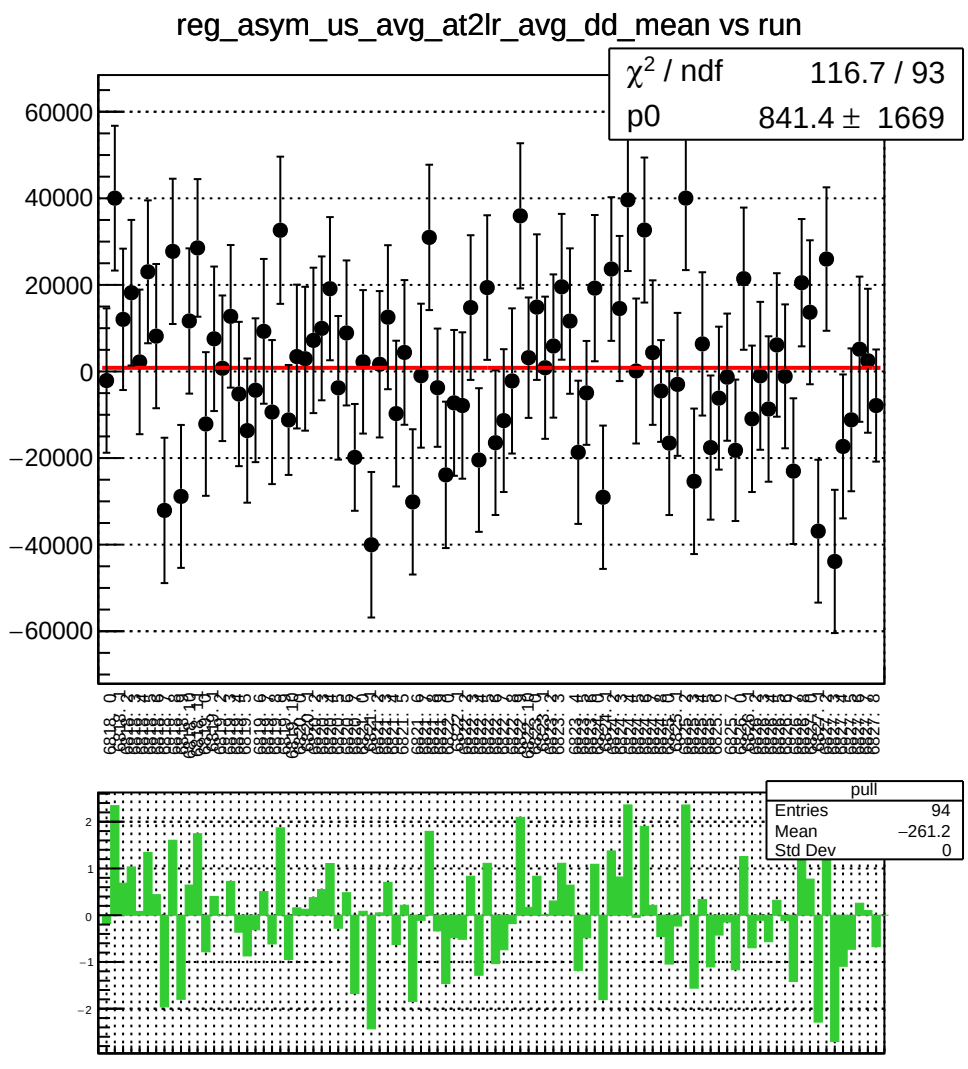

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4710 / 93
p0 603.5 ± 0.451
700
680
660
640
620
600
580
560
540
520

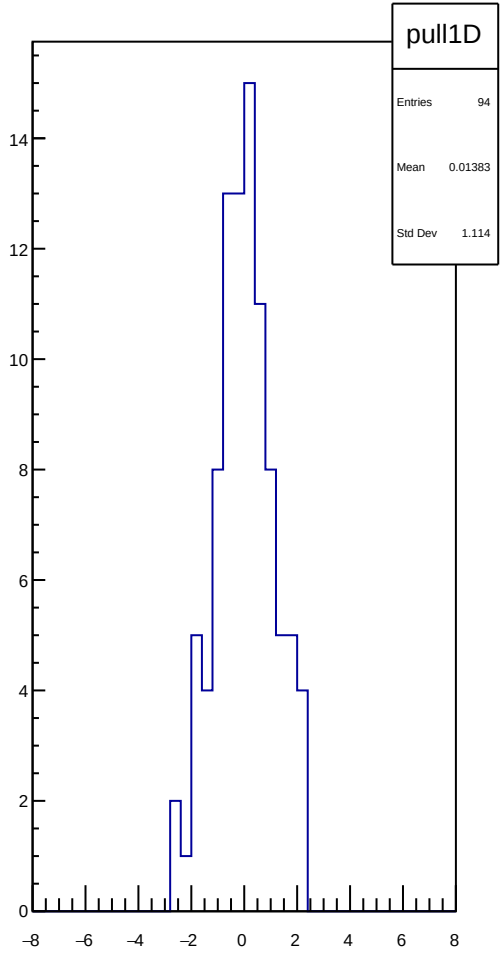

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.83 / 93
p0 0.4252 ± 0.6378
20
10
0
−10
−20
pull
Entries 94
Mean 214.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005121
Std Dev 0.9666
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

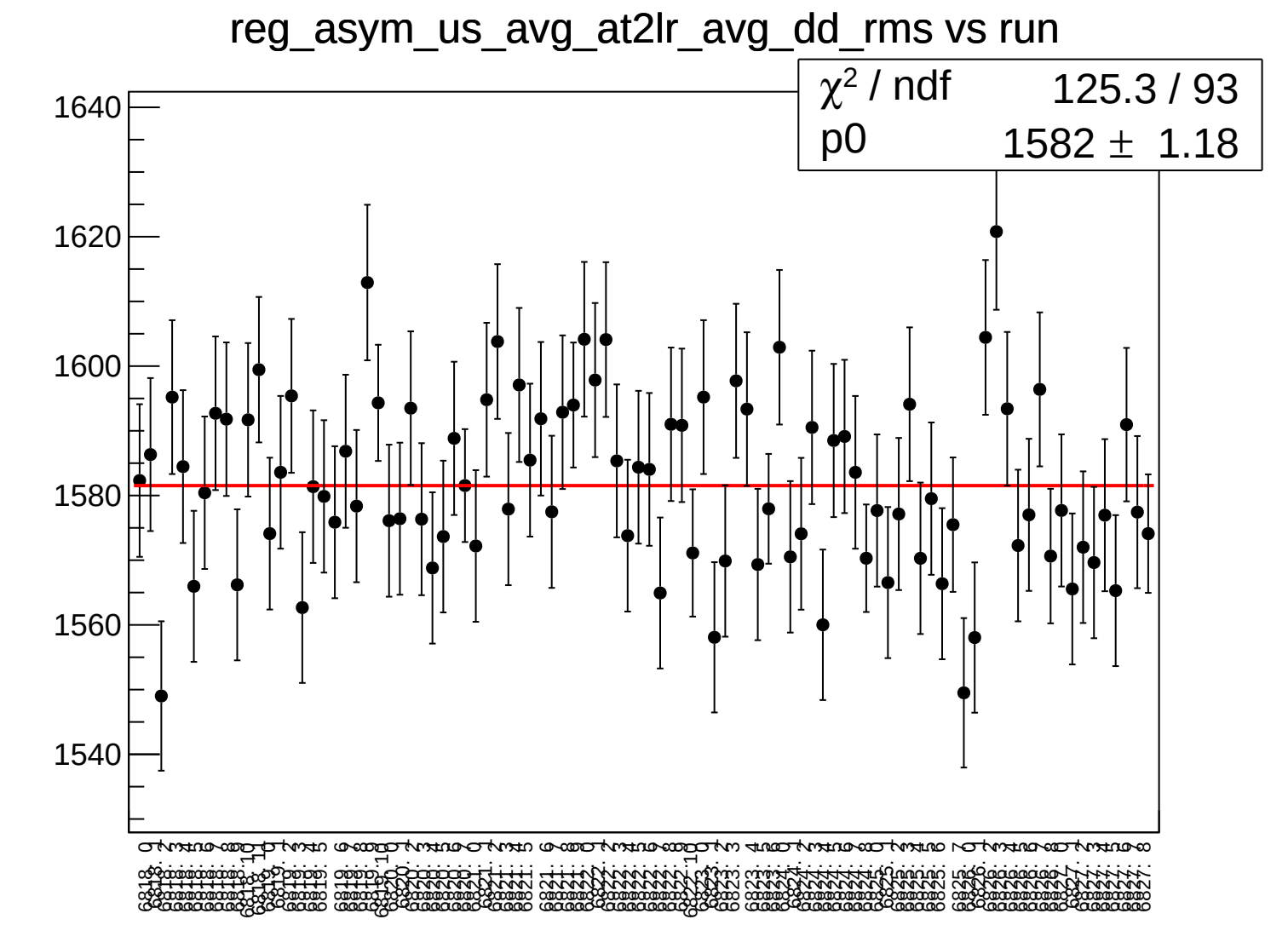

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4710 / 93
p0 603.5 ± 0.451
700
680
660
640
620
600
580
560
540
520

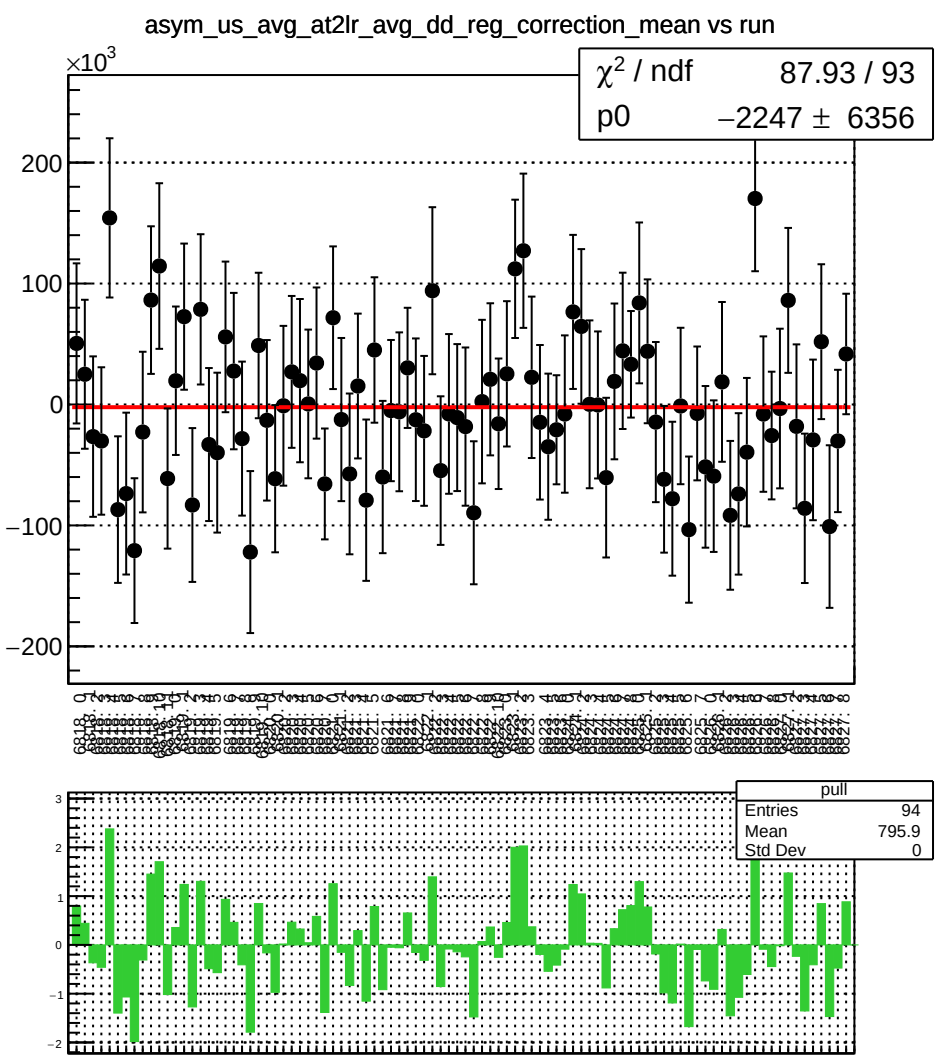

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.01 / 93
p0 2.004e−13 ± 1.29e−13
20
10
0
−10
−20
−30
pull
Entries 94
Mean 50.81
Std Dev 38.12
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.1507
Std Dev 0.9886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

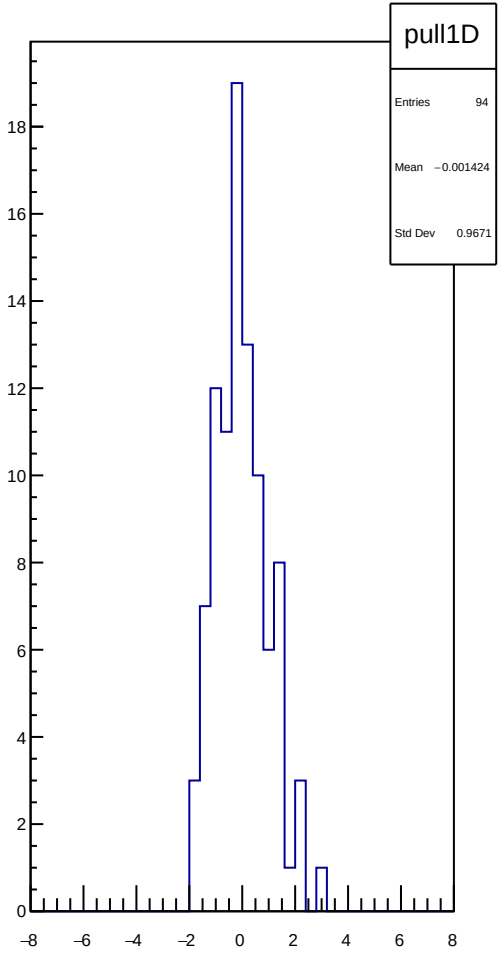

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.461e+05 / 93
p0 8.888e−11 ± 9.124e−14
1.2
1
0.8
0.6
0.4
0.2

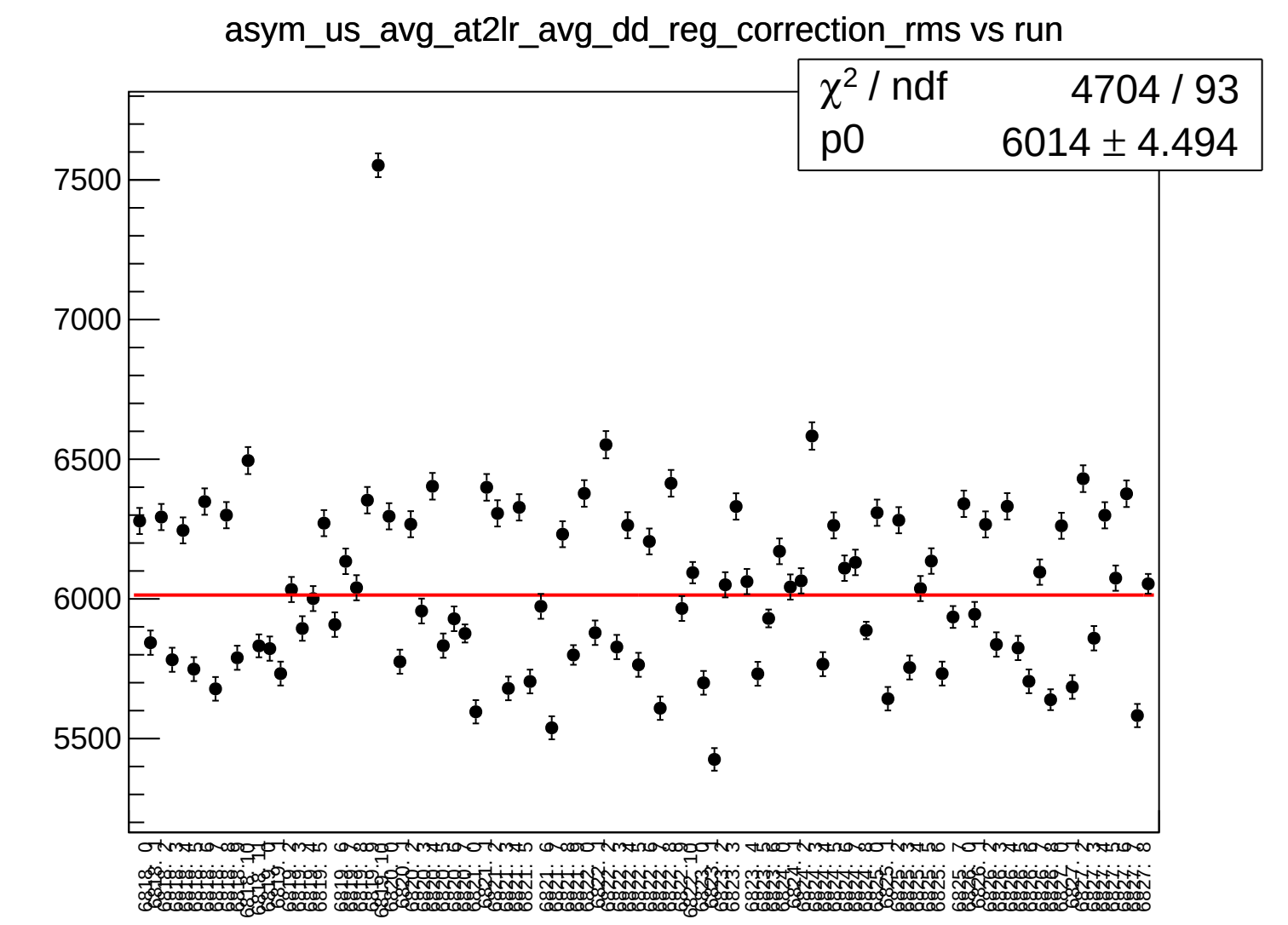

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.7 / 93
p0 841.4 ± 1669
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −261.2
Std Dev 0
2
1
0
−1
−2

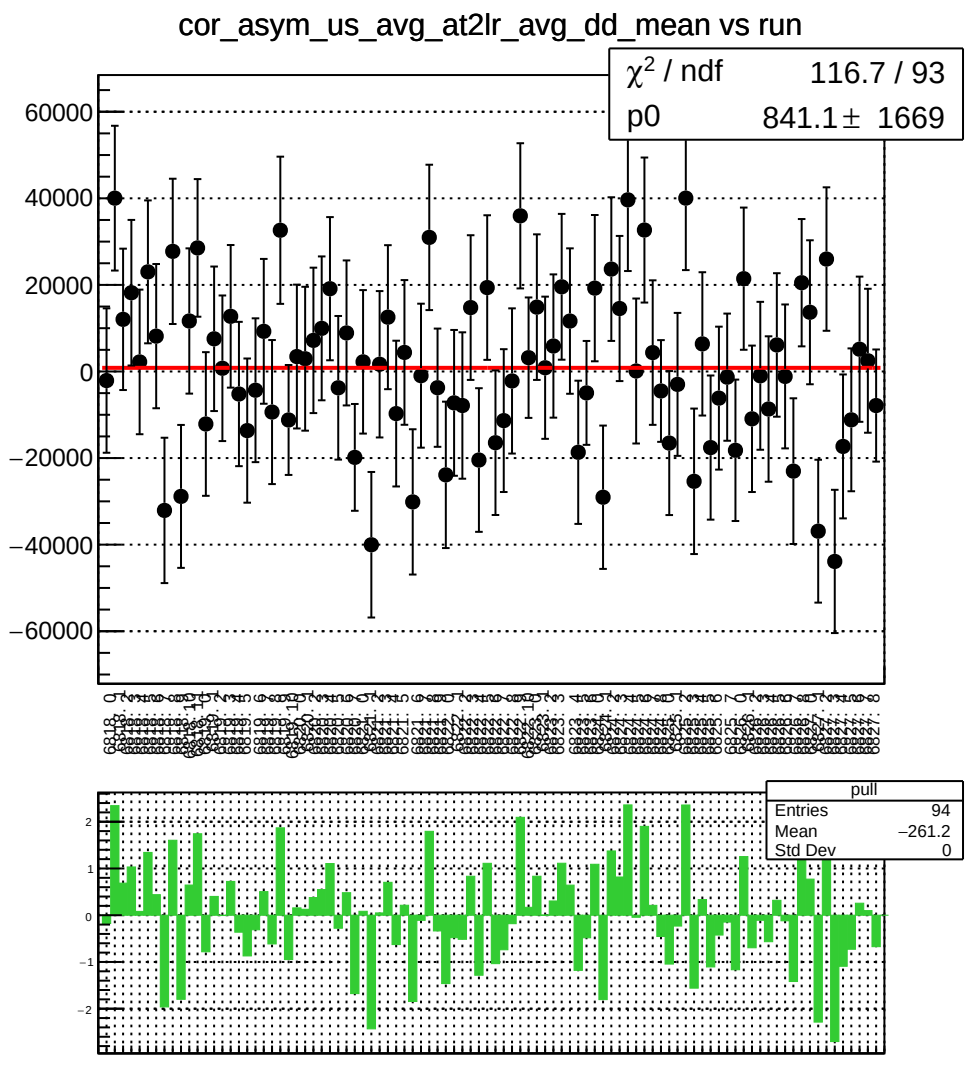

pull1D
Entries 94
Mean 0.01383
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

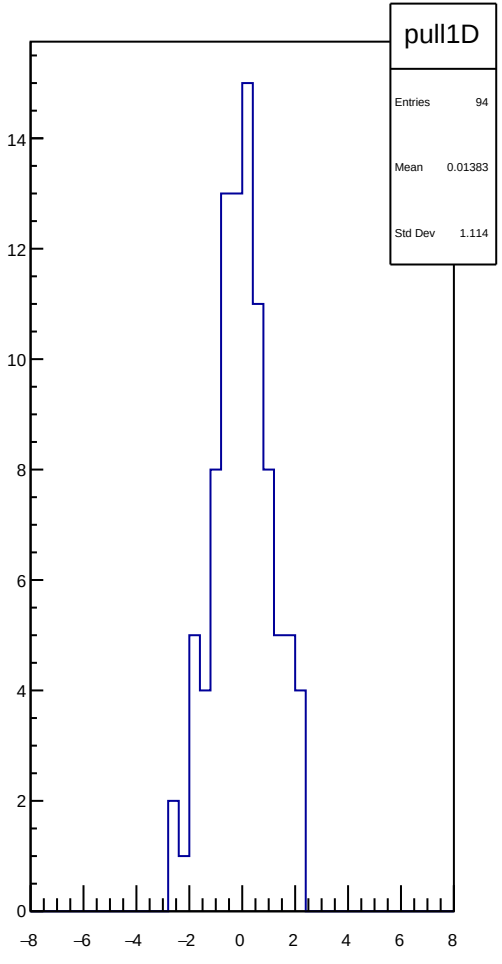

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 125.3 / 93
p0 1582 ± 1.18
1640
1620
1600
1580
1560
1540

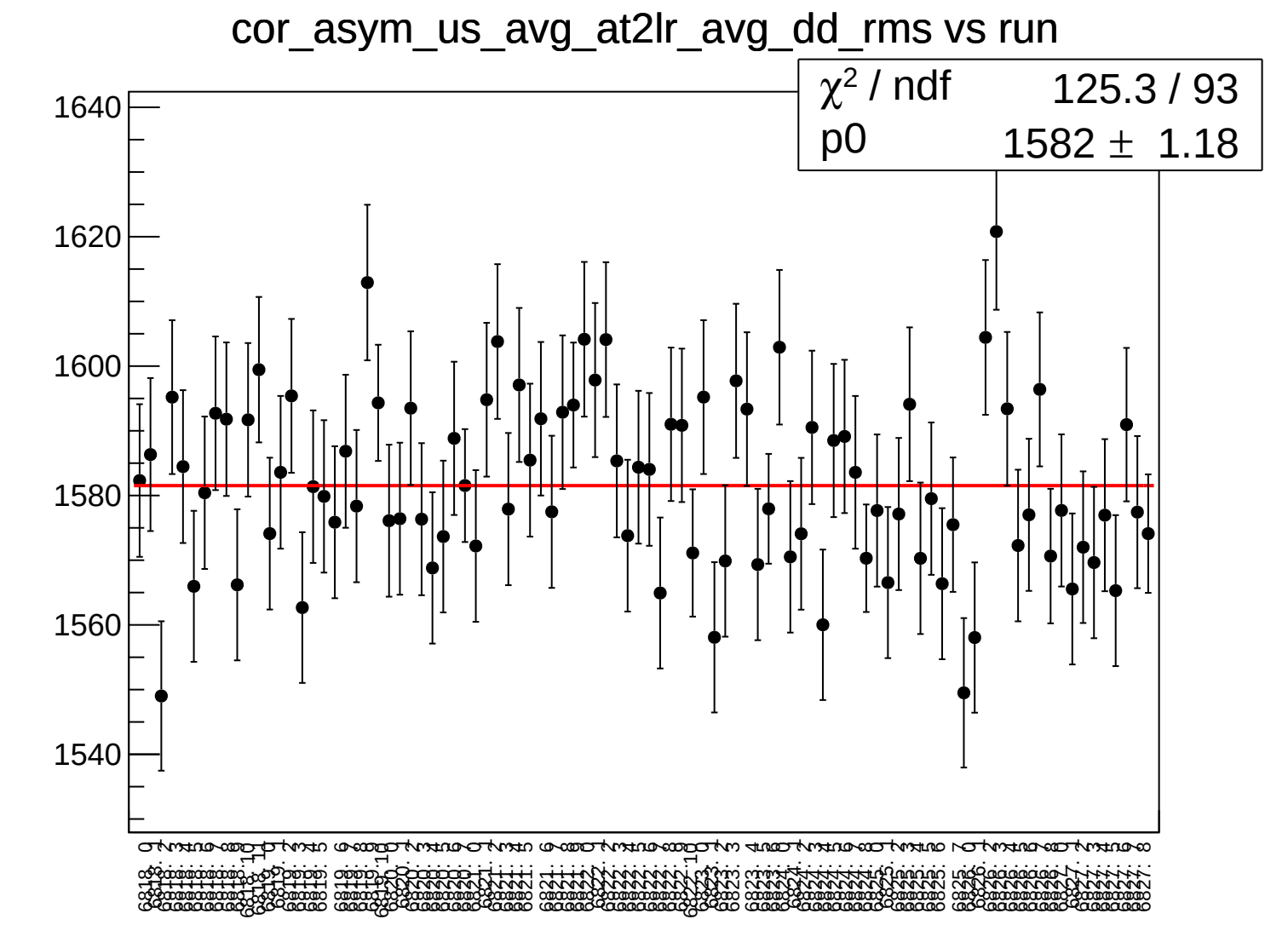

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 87.93 / 93
p0 −2247 ± 6356
200
100
0
−100
−200
pull
Entries 94
Mean 795.9
Std Dev 0
3
2
1
0
−1
−2

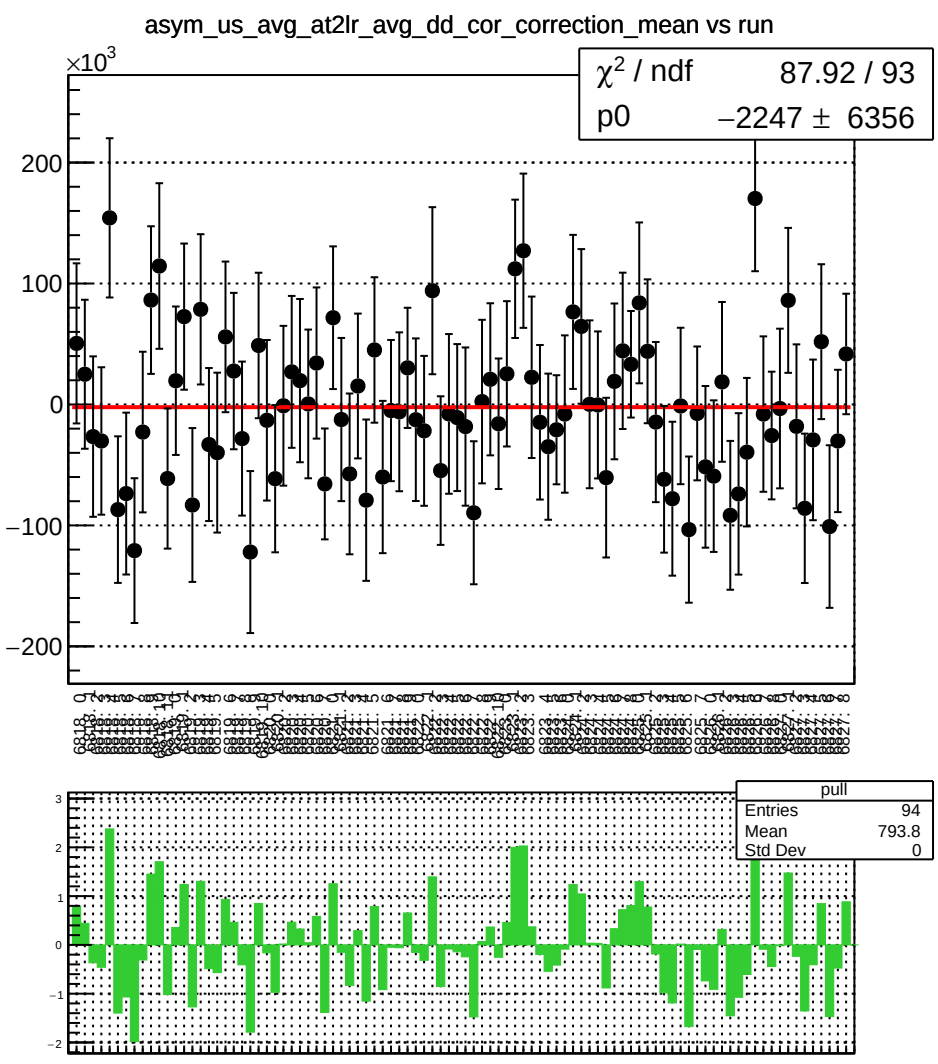

pull1D
Entries 94
Mean −0.001424
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

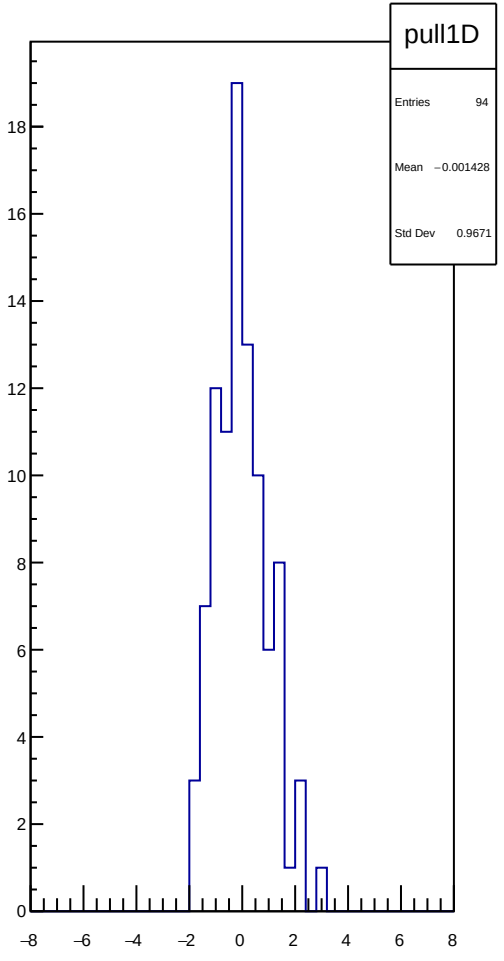

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 4704 / 93
p0 6014 ± 4.494
7500
7000
6500
6000
5500

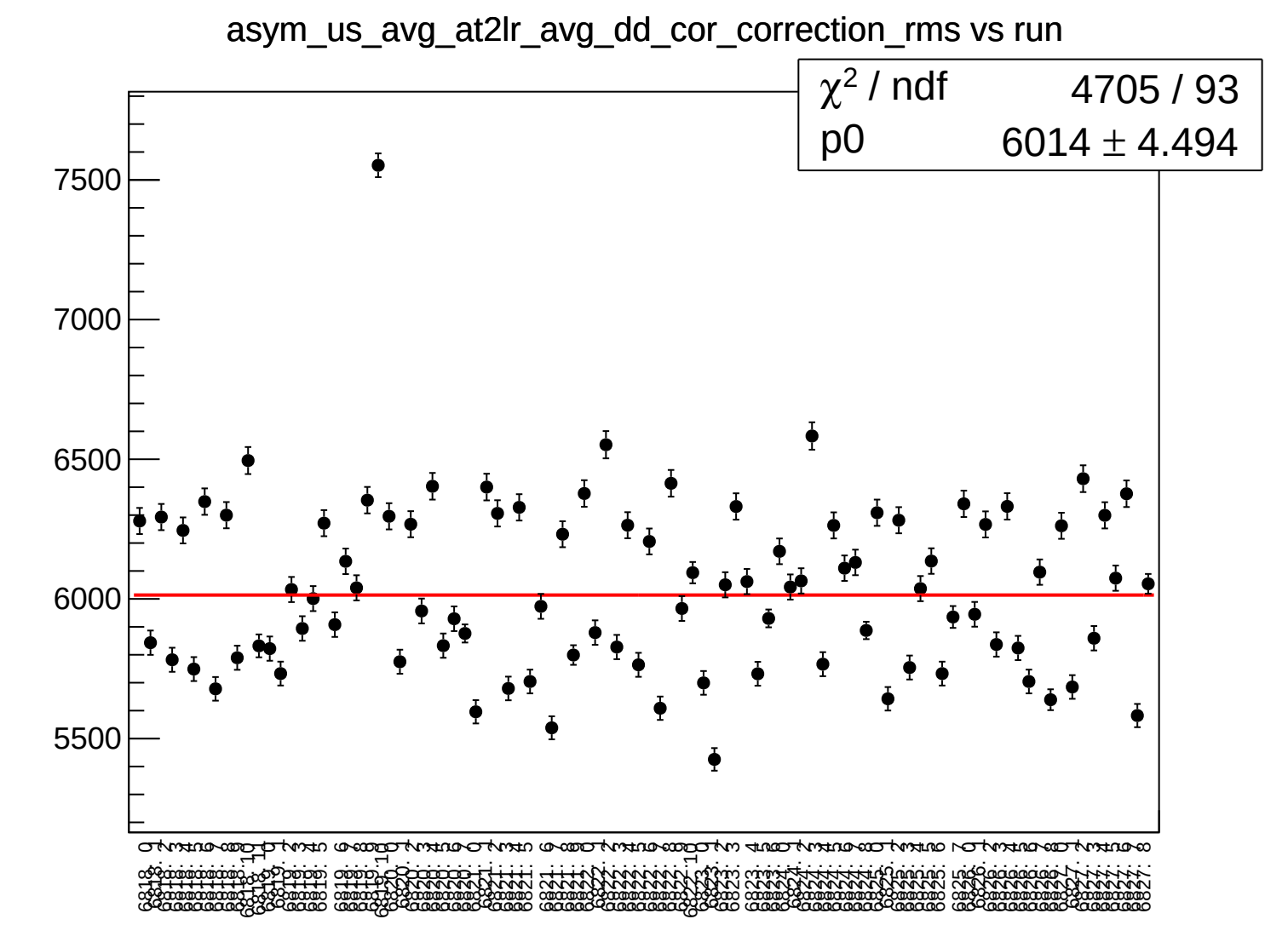

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.7 / 93
p0 841.1 ± 1669
pull
Entries 94
Mean −261.2
Std Dev 0

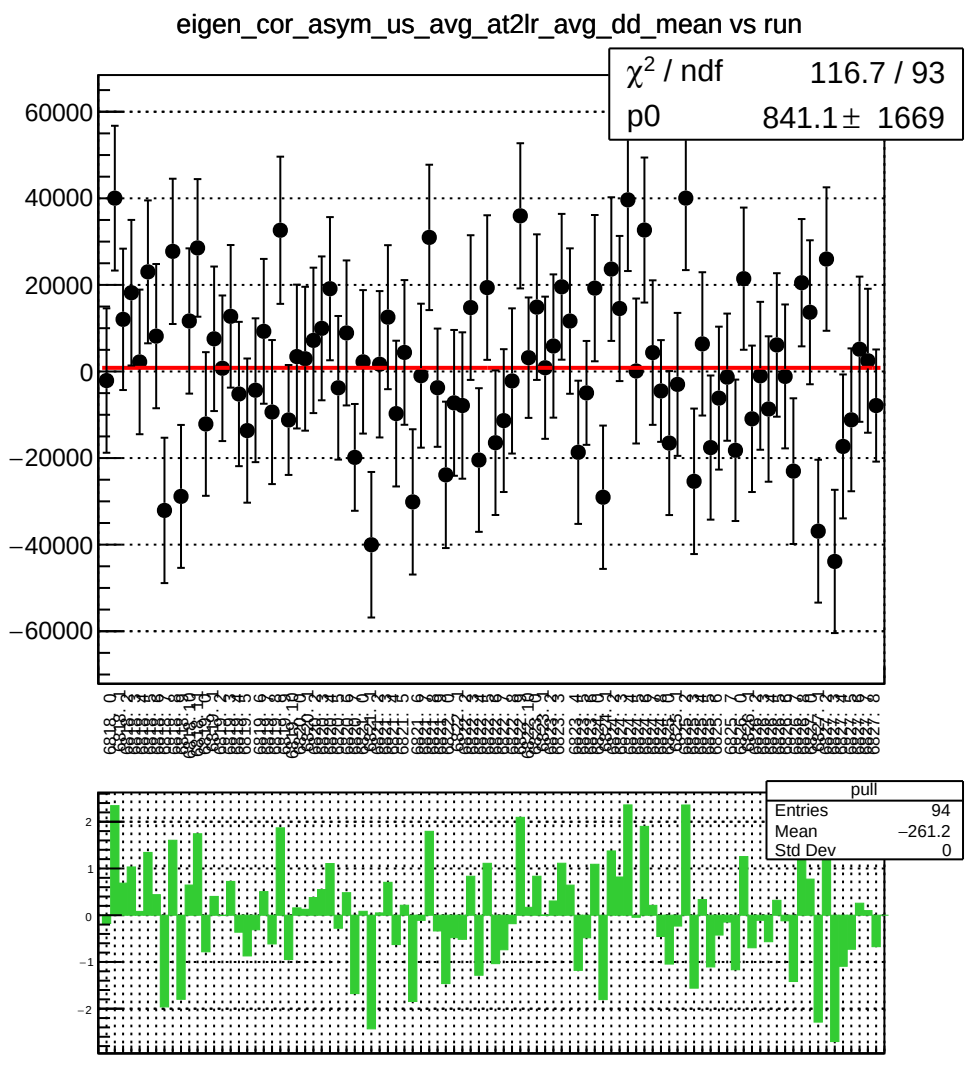

pull1D
Entries 94
Mean 0.01383
Std Dev 1.114

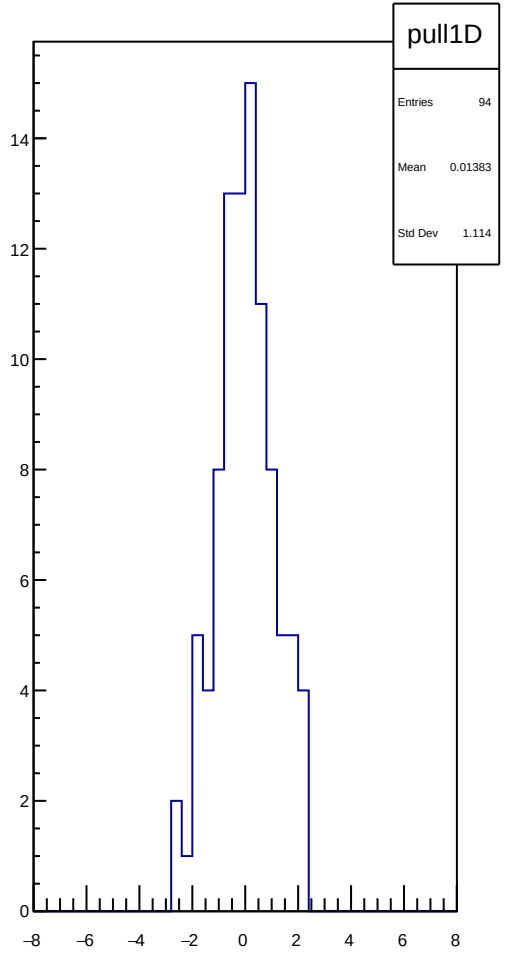

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 125.3 / 93
p0 1582 ± 1.18
1640
1620
1600
1580
1560
1540

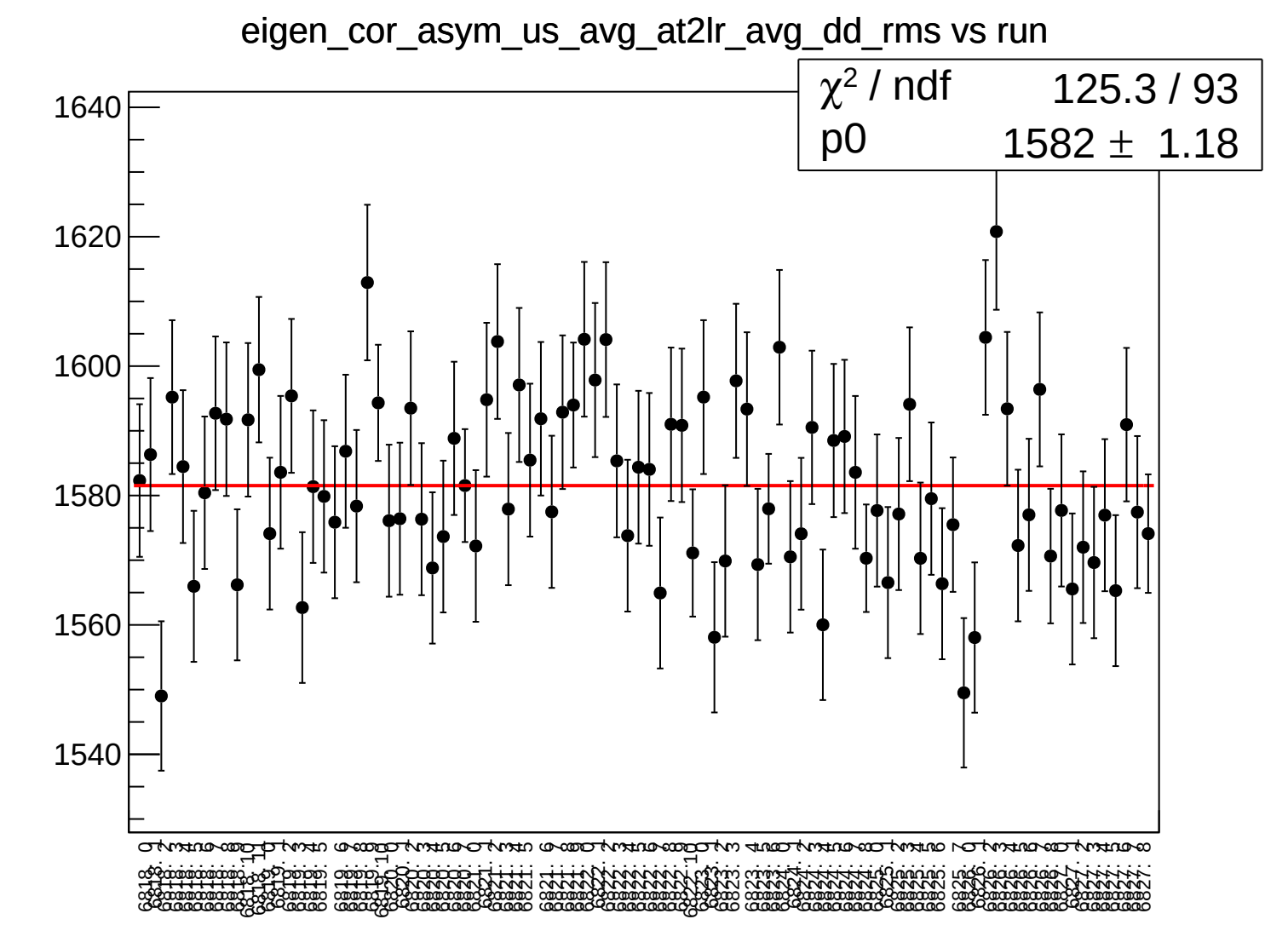

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 87.92 / 93
p0 −2247 ± 6356
200
100
0
−100
−200
pull
Entries 94
Mean 793.8
Std Dev 0
3
2
1
0
−1
−2

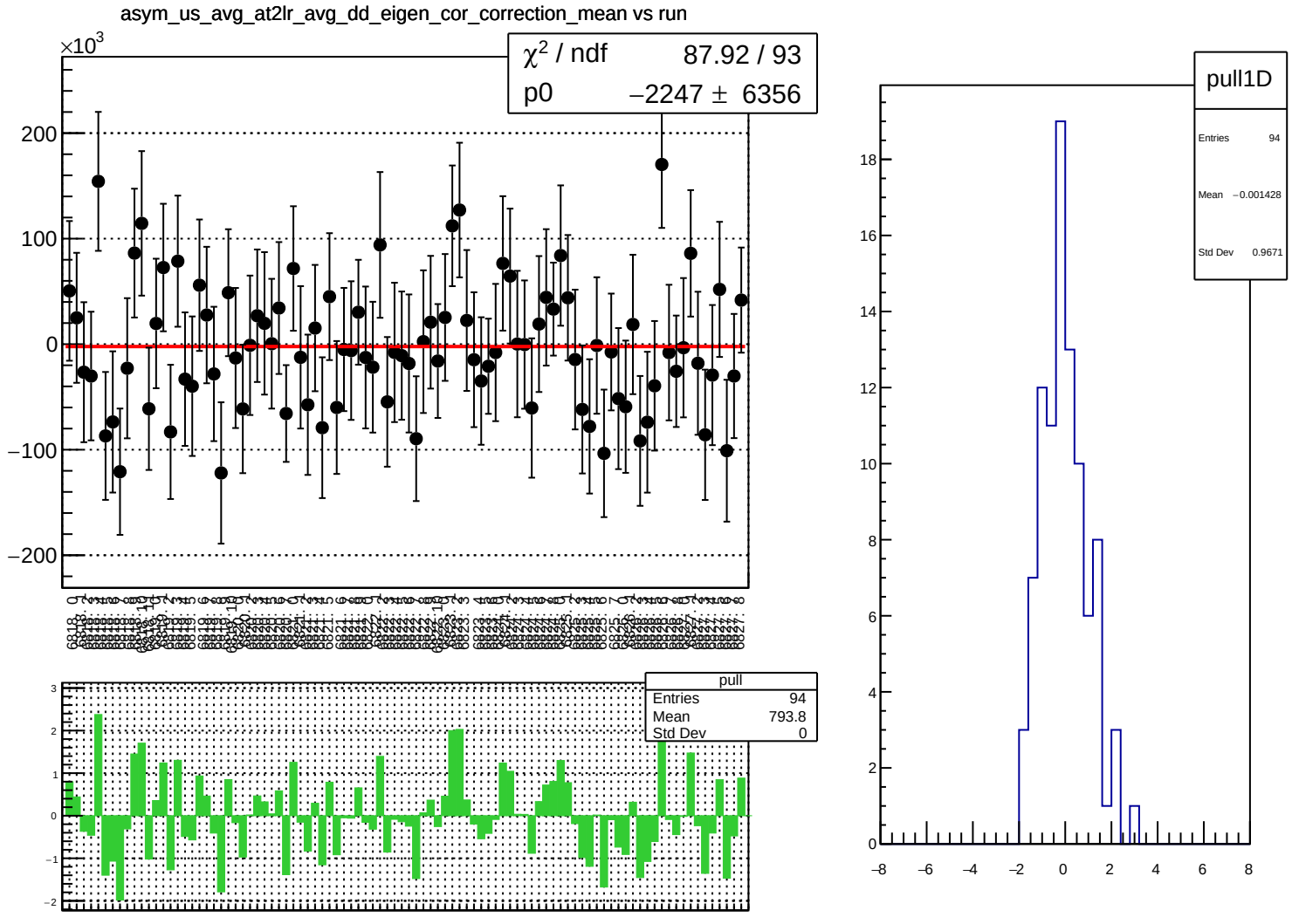

pull1D
Entries 94
Mean −0.001428
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

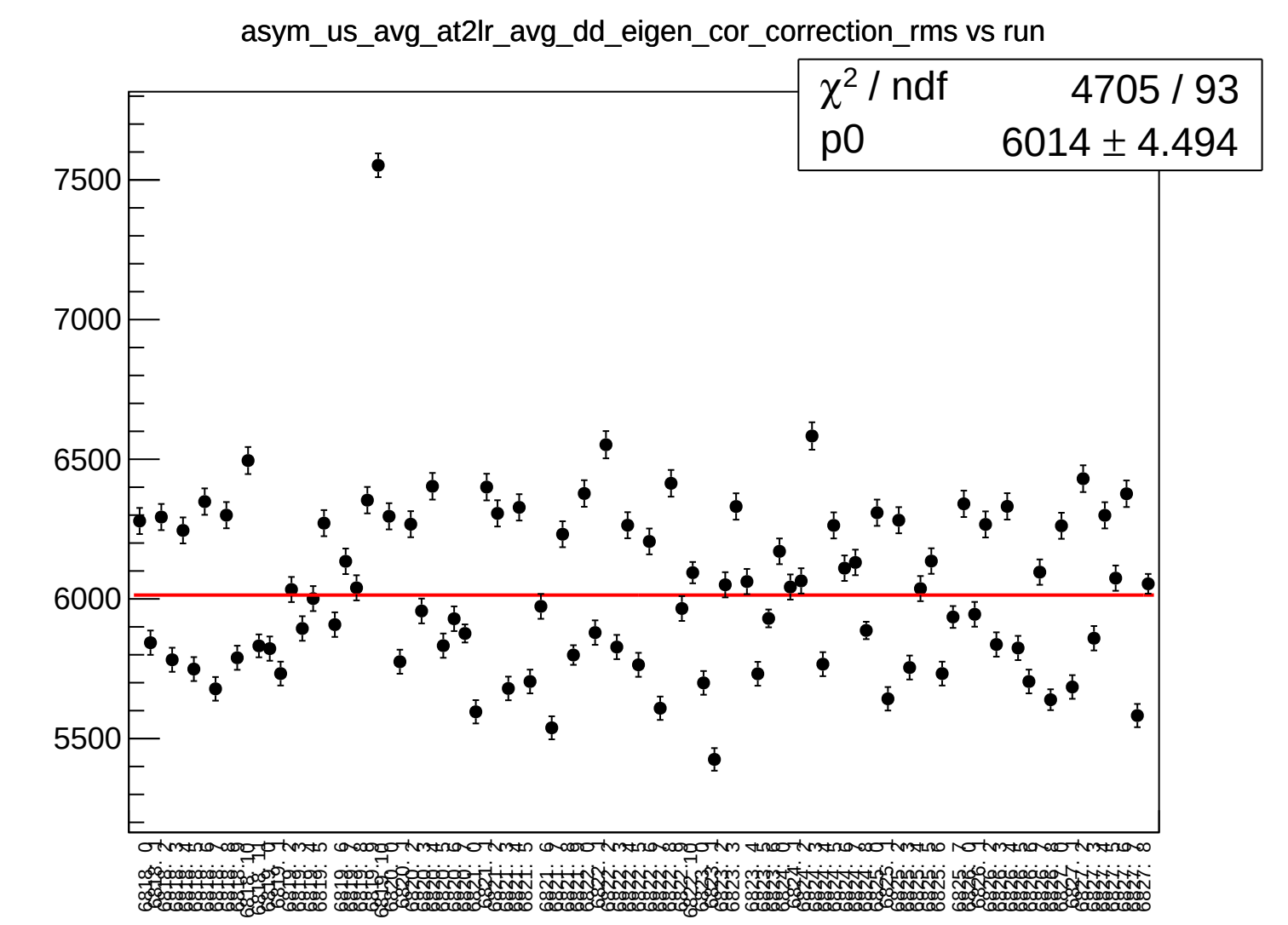

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 4705 / 93
p0 6014 ± 4.494
7500
7000
6500
6000
5500

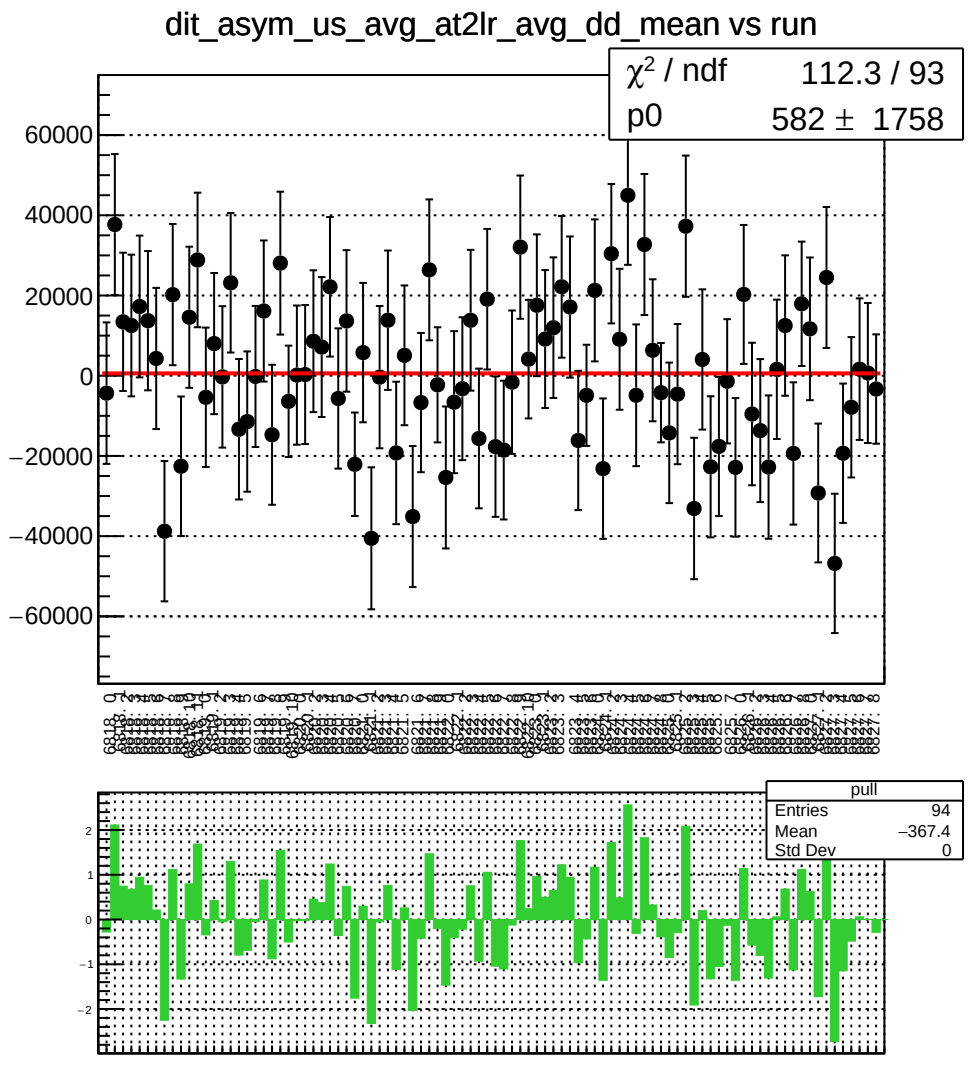

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.7 / 93
p0 841.1 ± 1669
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −261.2
Std Dev 0
2
1
0
−1
−2

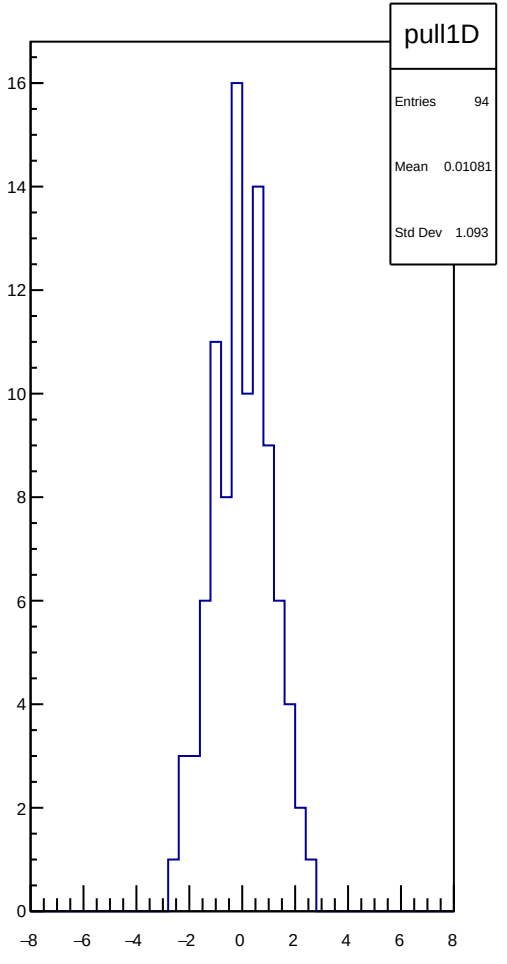

pull1D
Entries 94
Mean 0.01383
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

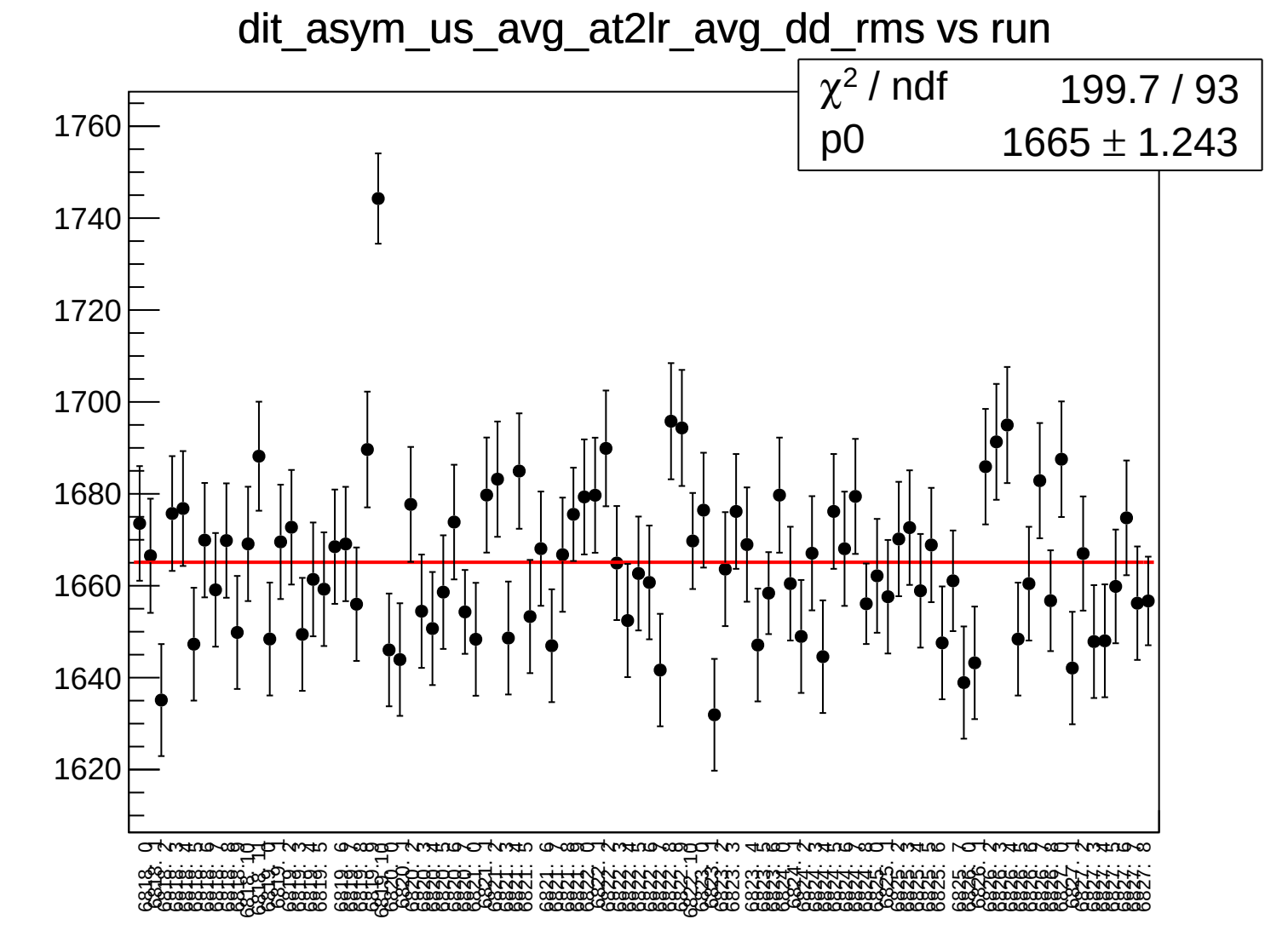

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 125.3 / 93
p0 1582 ± 1.18
1640
1620
1600
1580
1560
1540

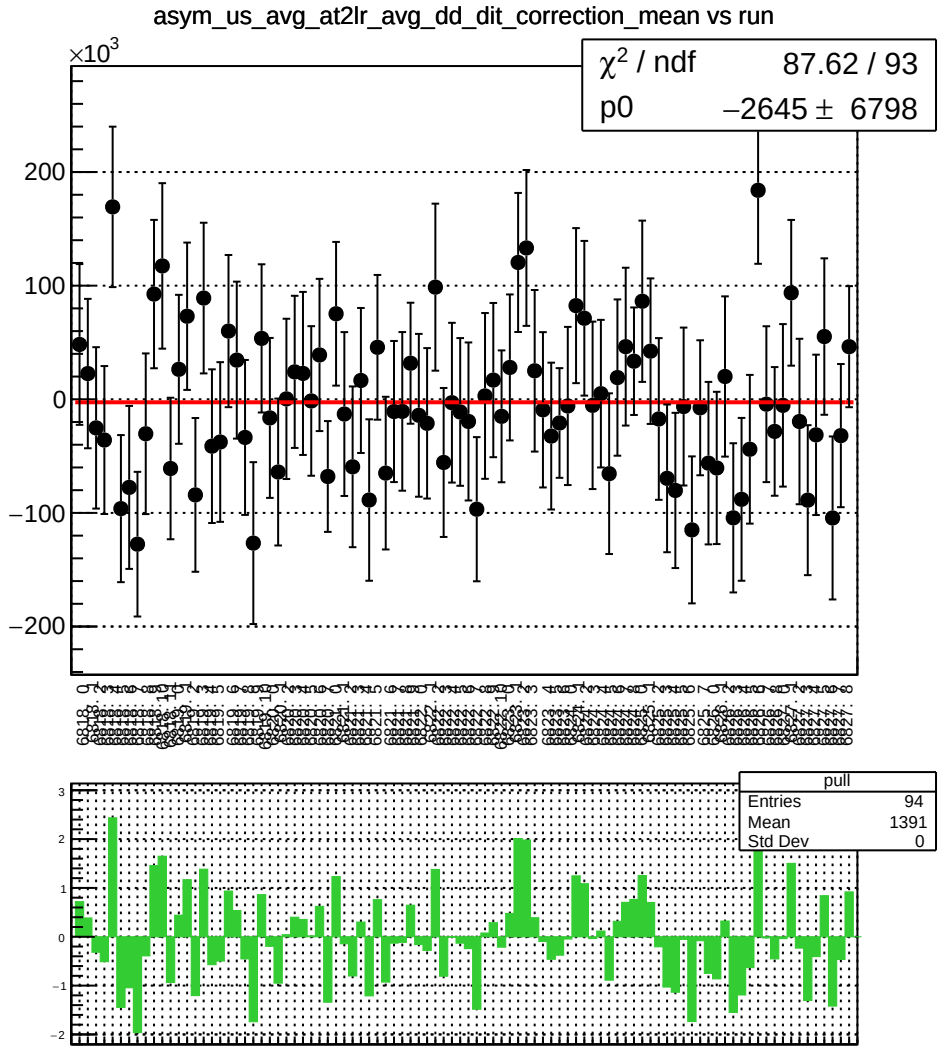

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 87.92 / 93
p0 −2247 ± 6356
200
100
0
−100
−200
pull
Entries 94
Mean 793.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001428
Std Dev 0.9671
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

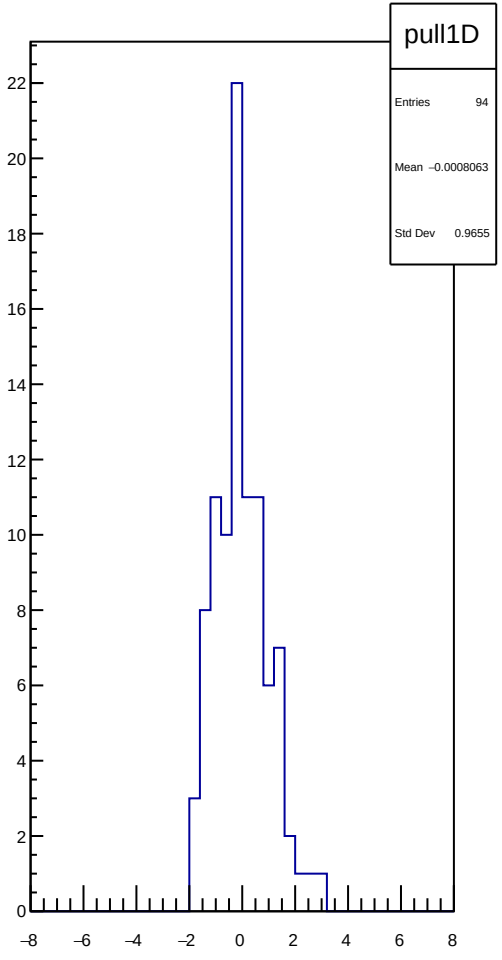

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4705 / 93
p0 6014 ± 4.494
7500
7000
6500
6000
5500

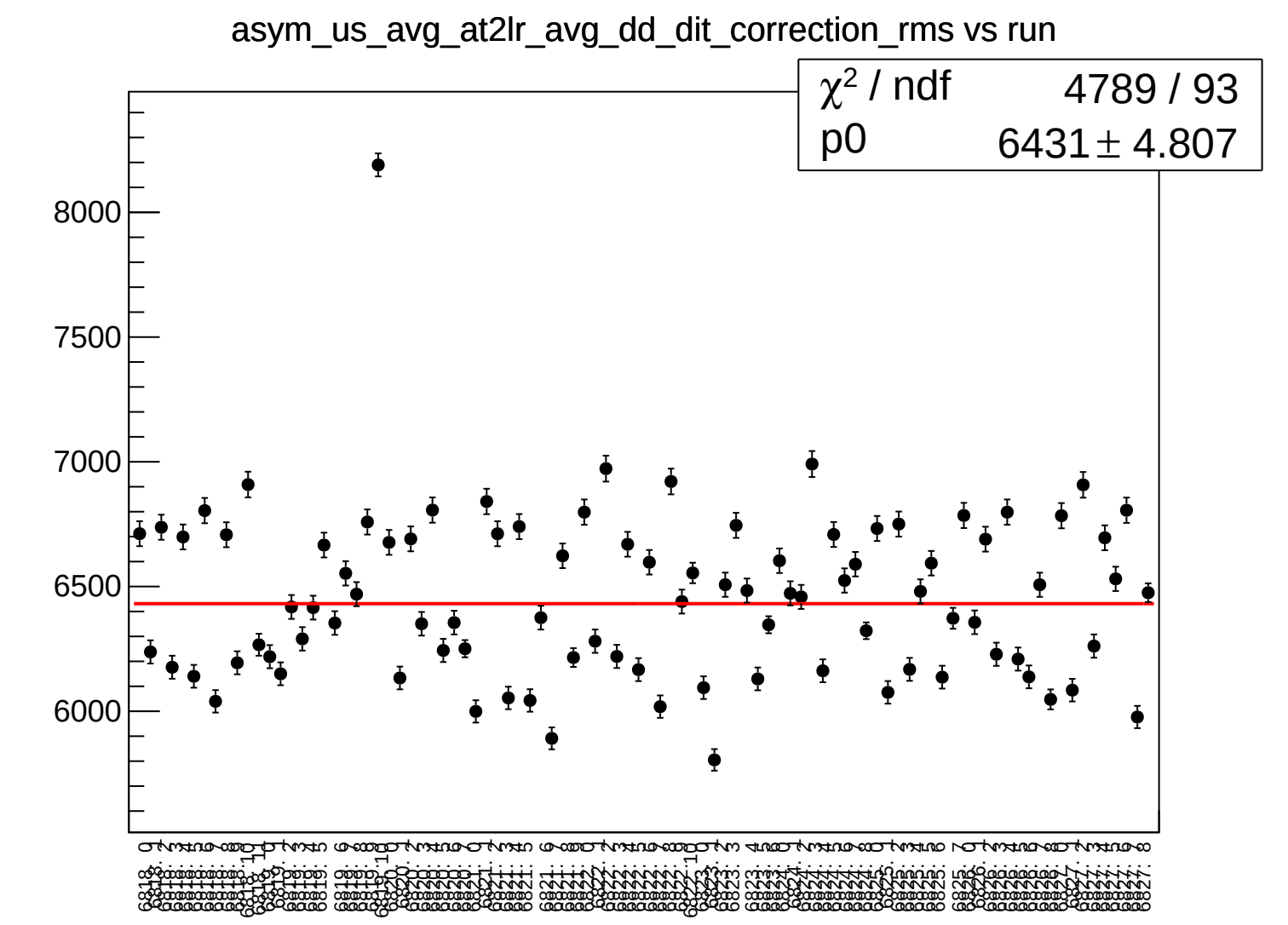

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 112.3 / 93
p0 582 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −367.4
Std Dev 0
2
1
0
−1
−2

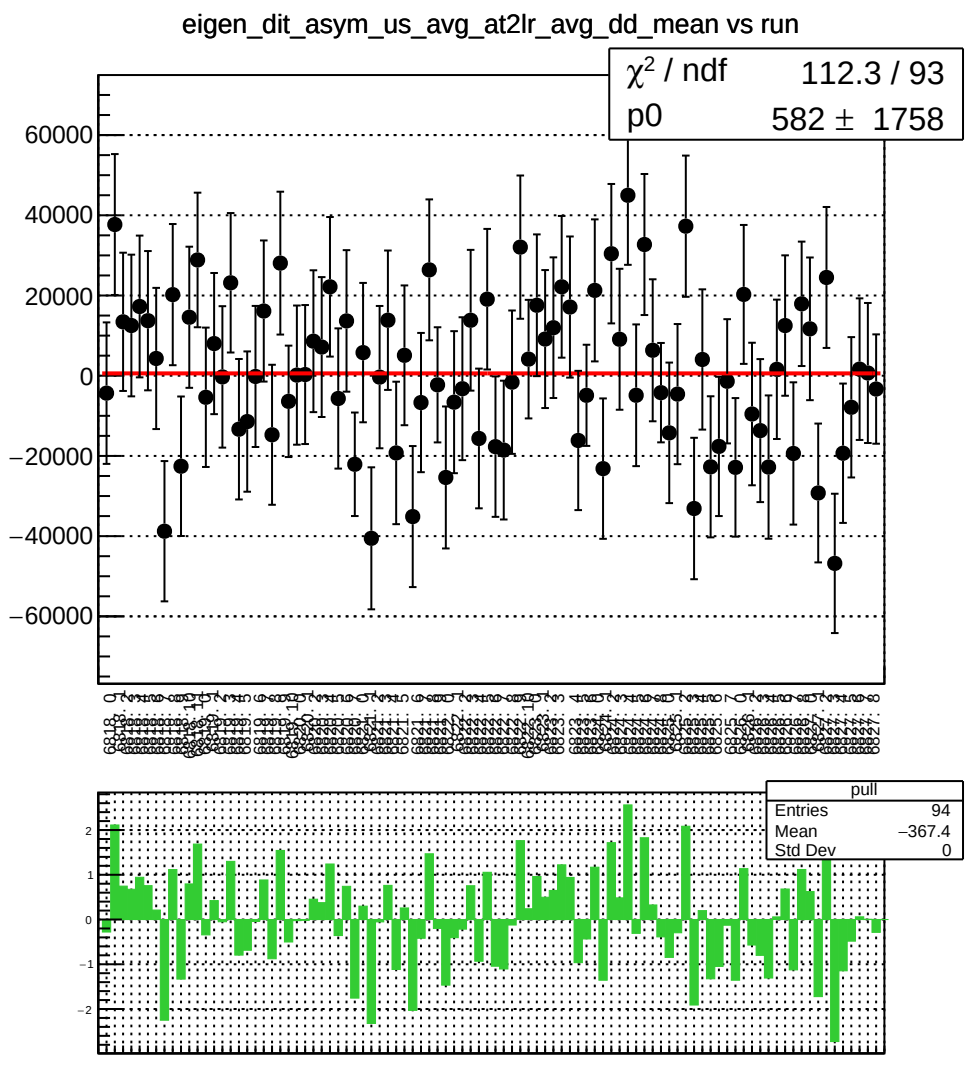

pull1D
Entries 94
Mean 0.01081
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

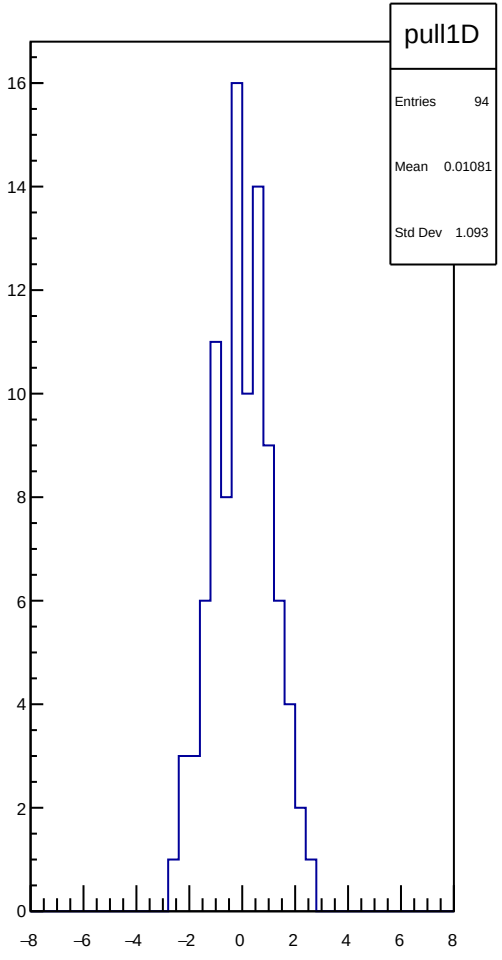

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 199.7 / 93
p0 1665 ± 1.243
1760
1740
1720
1700
1680
1660
1640
1620

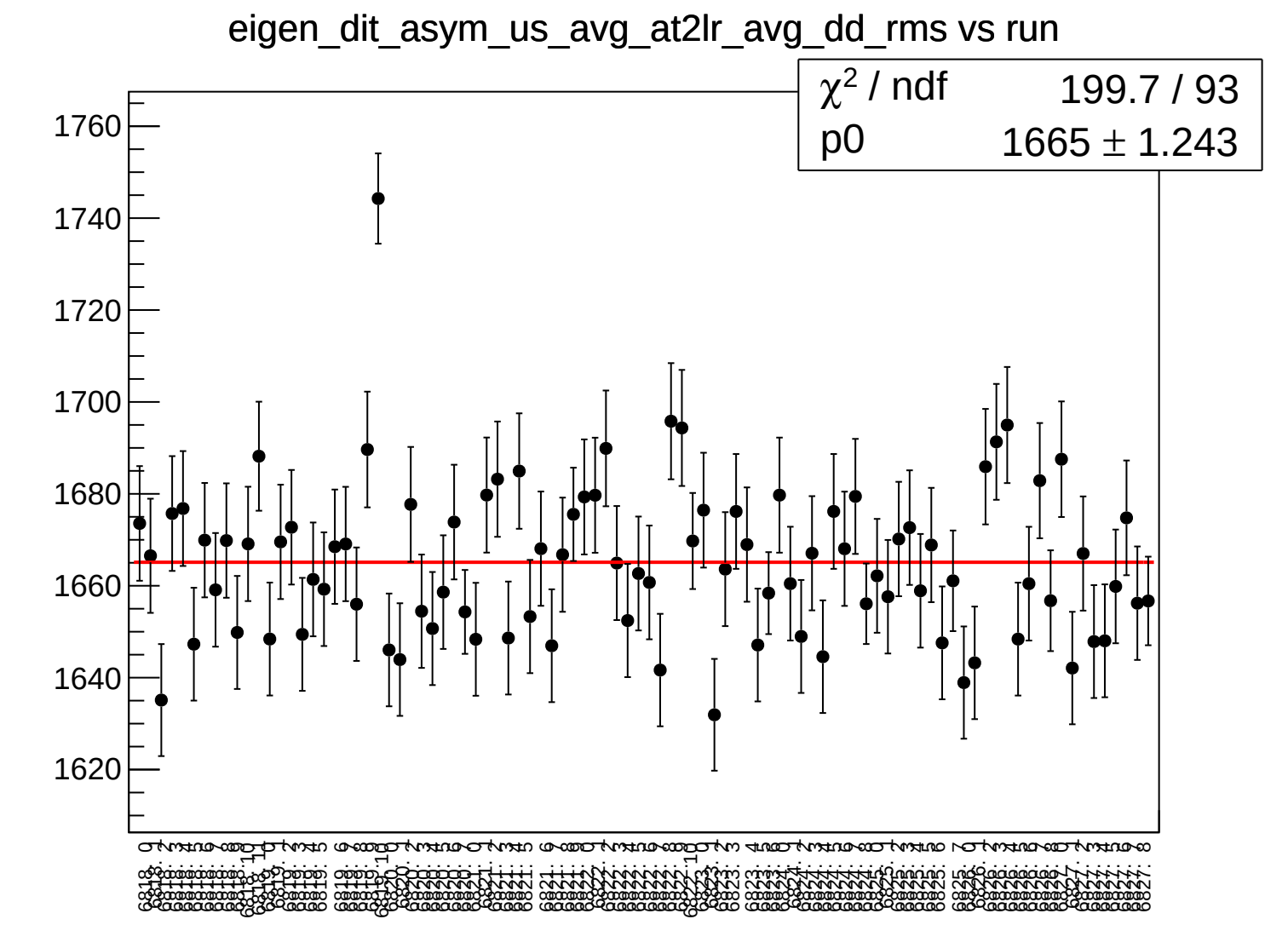

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.62 / 93
p0 −2645 ± 6798
200
100
0
−100
−200
pull
Entries 94
Mean 1391
Std Dev 0
3
2
1
0
−1
−2

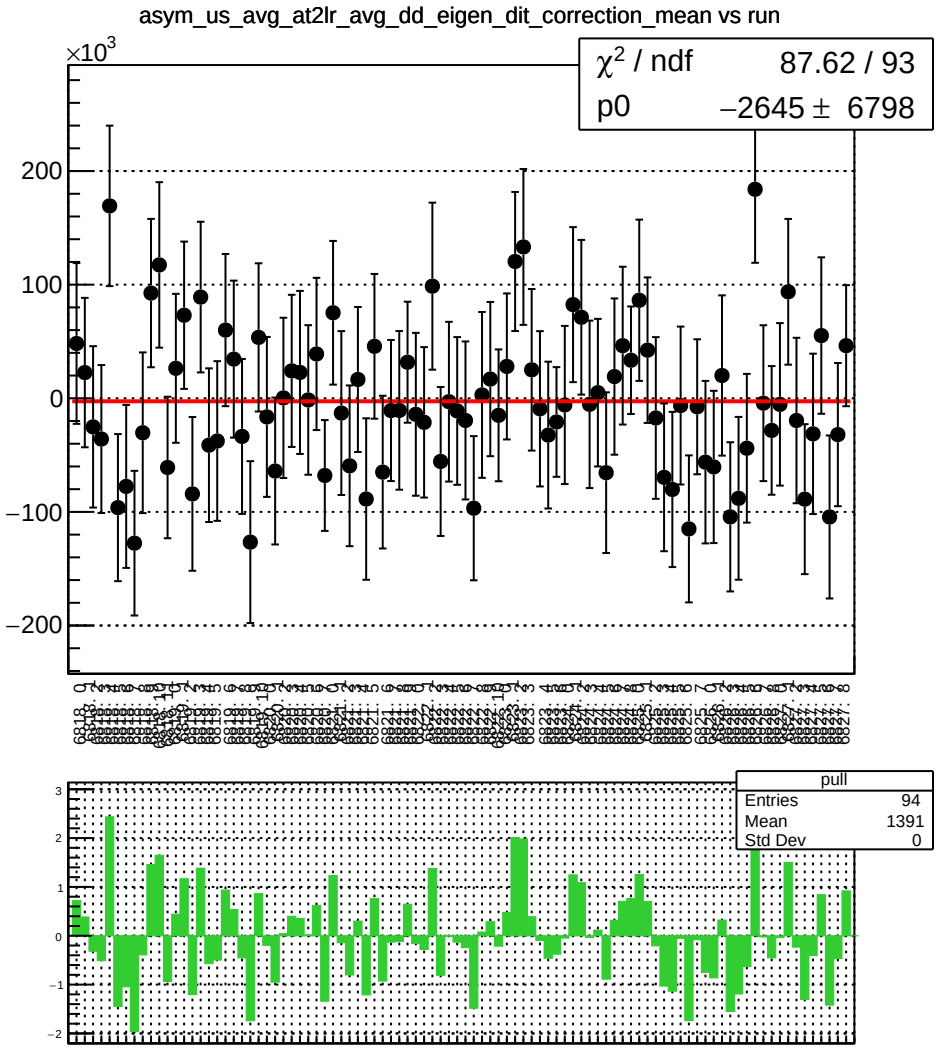

pull1D
Entries 94
Mean −0.0008063
Std Dev 0.9655
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

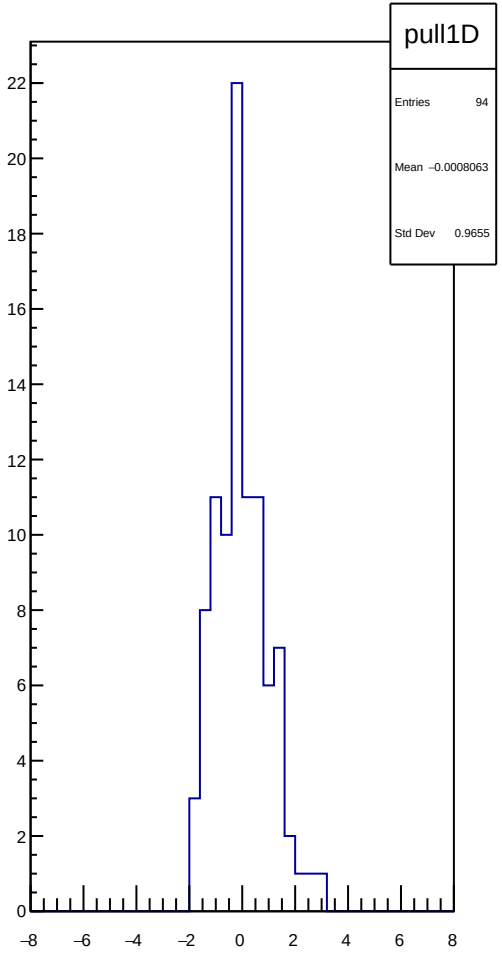

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4789 / 93
p0 6431 ± 4.807
8000
7500
7000
6500
6000

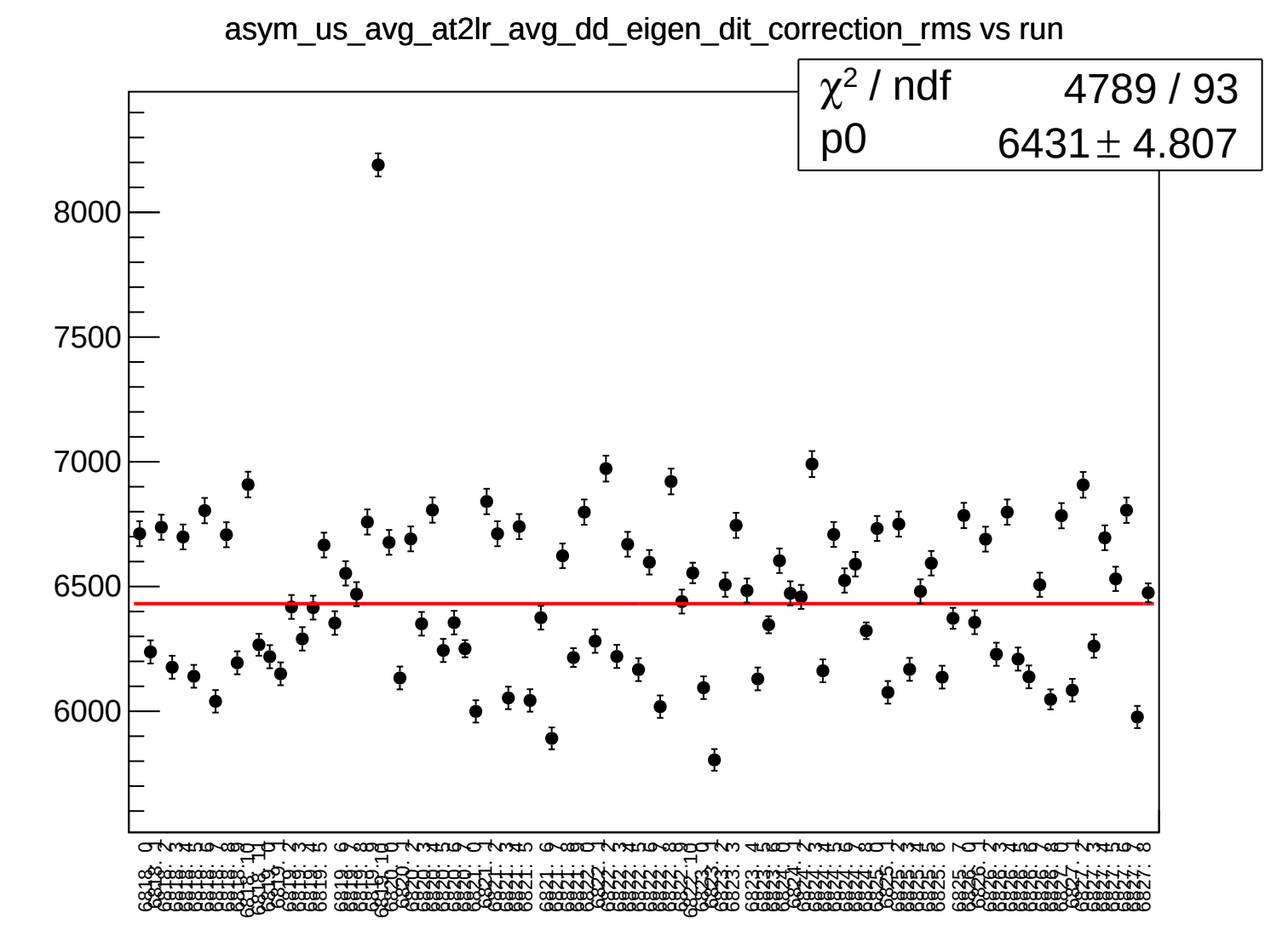

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 112.3 / 93
p0 582 ± 1758
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −367.4
Std Dev 0
2
1
0
−1
−2

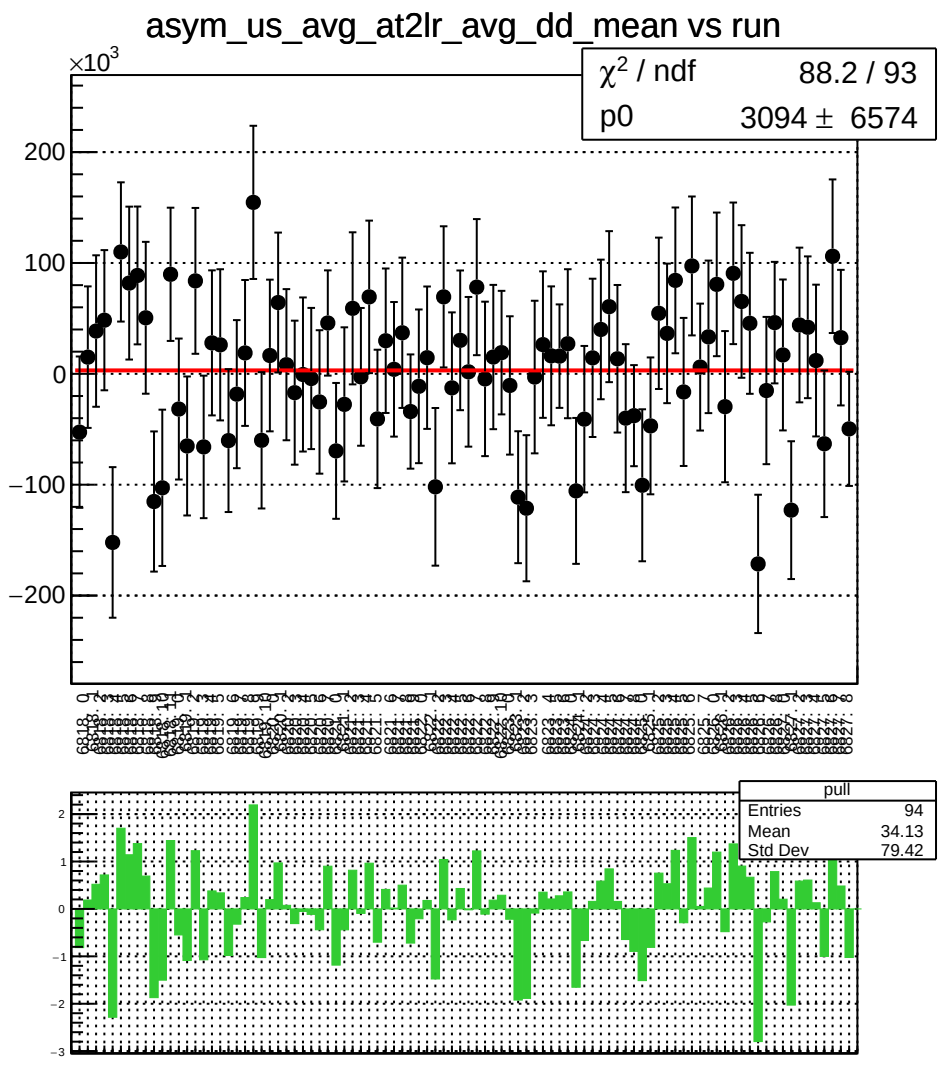

pull1D
Entries 94
Mean 0.01081
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

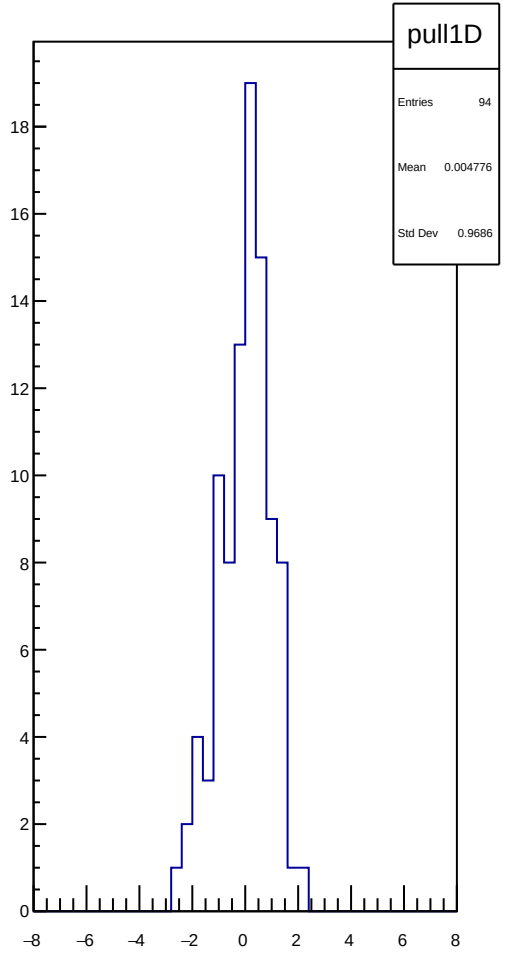

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 199.7 / 93
p0 1665 ± 1.243
1760
1740
1720
1700
1680
1660
1640
1620

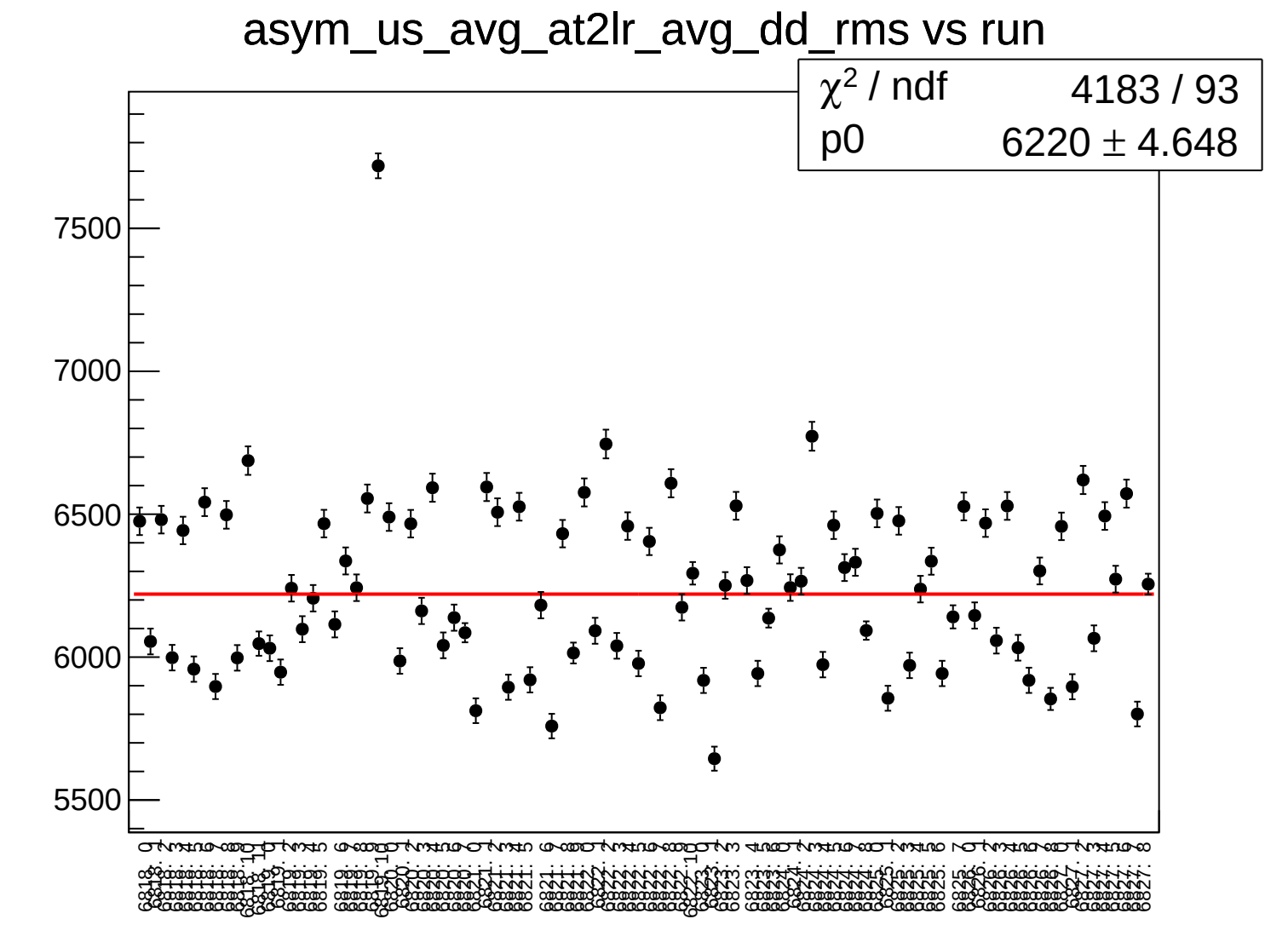

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.62 / 93
p0 −2645 ± 6798
200
100
0
−100
−200
pull
Entries 94
Mean 1391
Std Dev 0
3
2
1
0
−1
−2

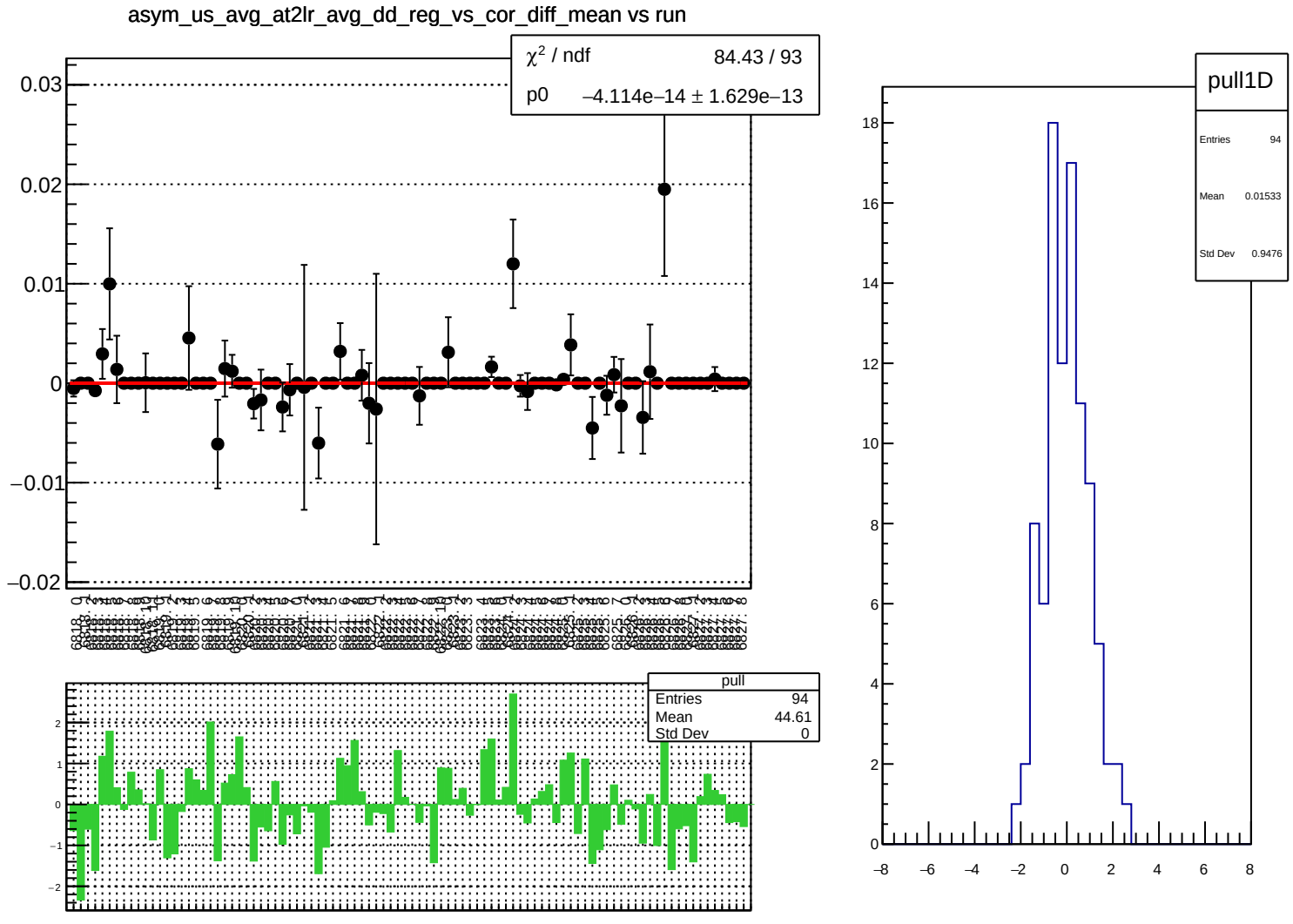

pull1D
Entries 94
Mean −0.0008063
Std Dev 0.9655
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

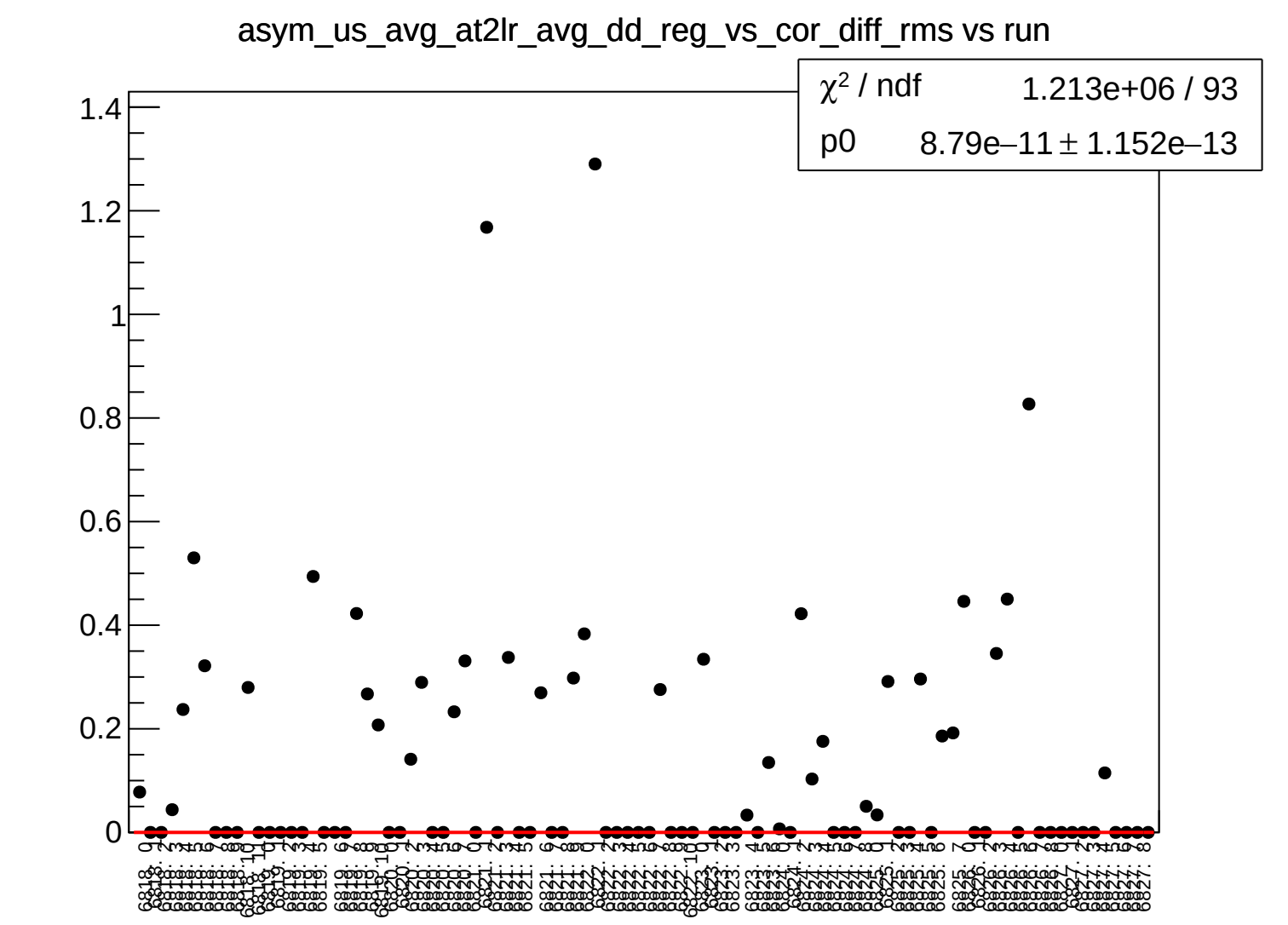

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4789 / 93
p0 6431 ± 4.807
8000
7500
7000
6500
6000

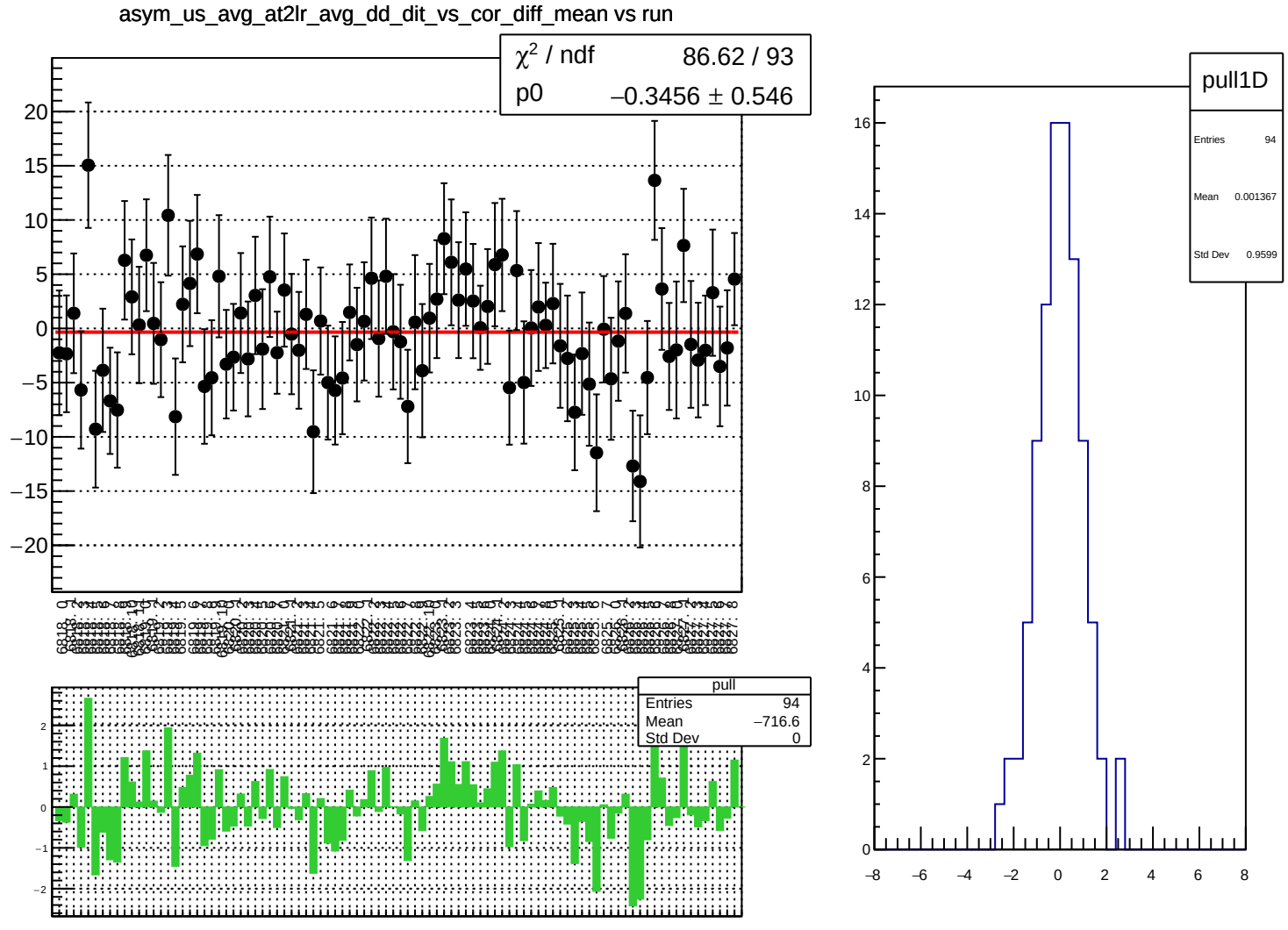

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 88.2 / 93
p0 3094 ± 6574
200
100
0
−100
−200
pull
Entries 94
Mean 34.13
Std Dev 79.42
2
1
0
−1
−2
−3

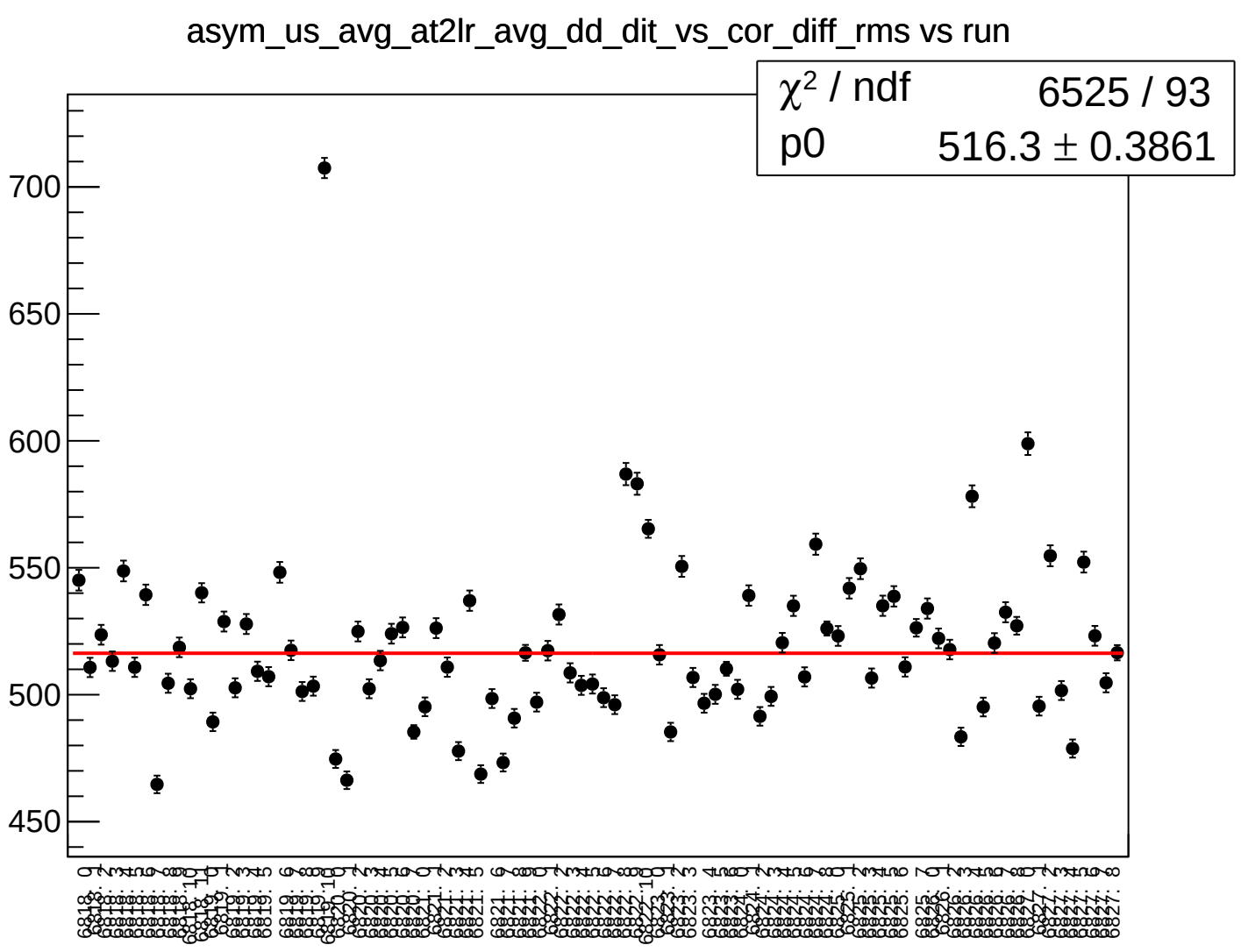

pull1D
Entries 94
Mean 0.004776
Std Dev 0.9686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

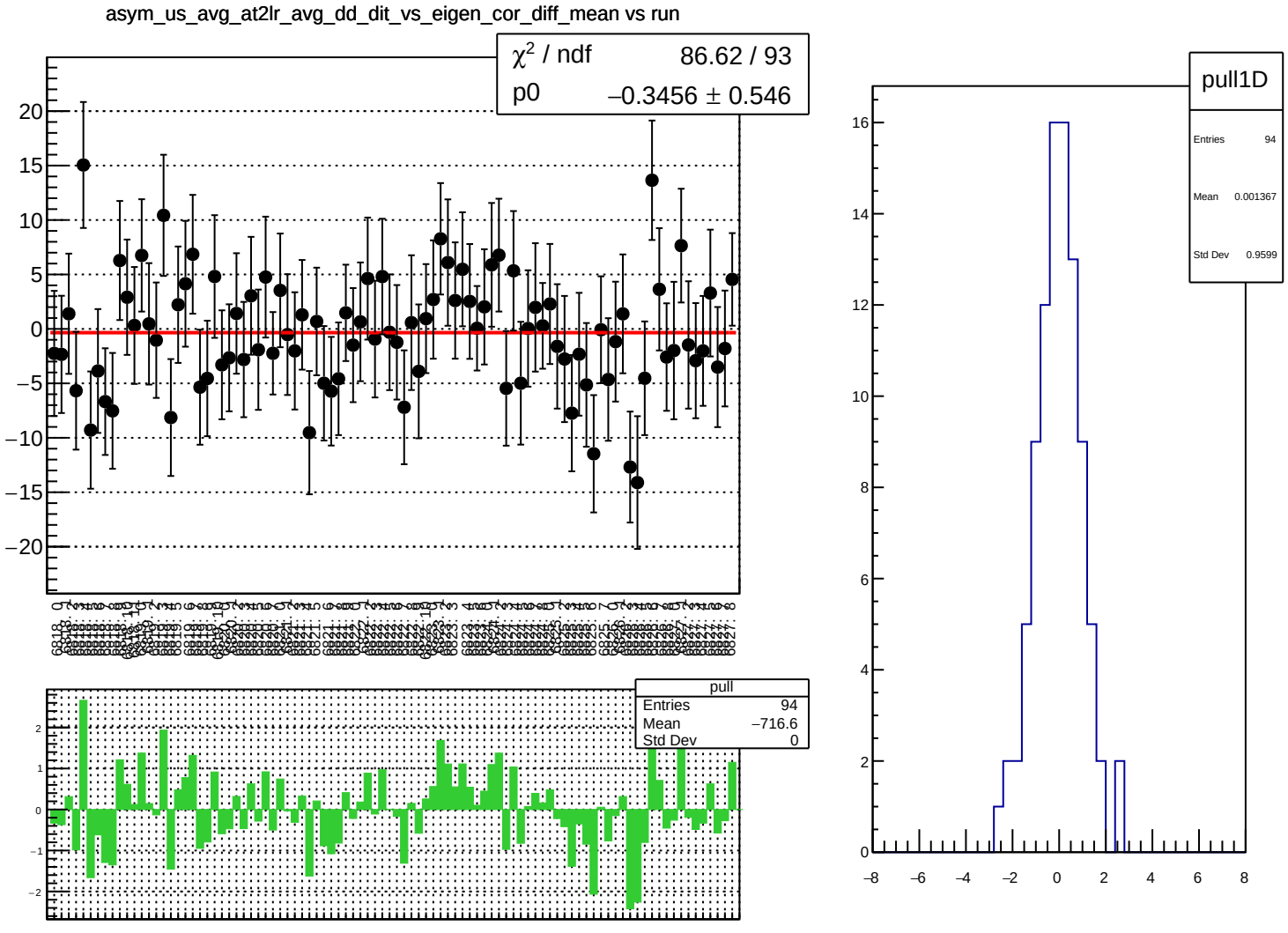

asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 4183 / 93
p0 6220 ± 4.648
7500
7000
6500
6000
5500

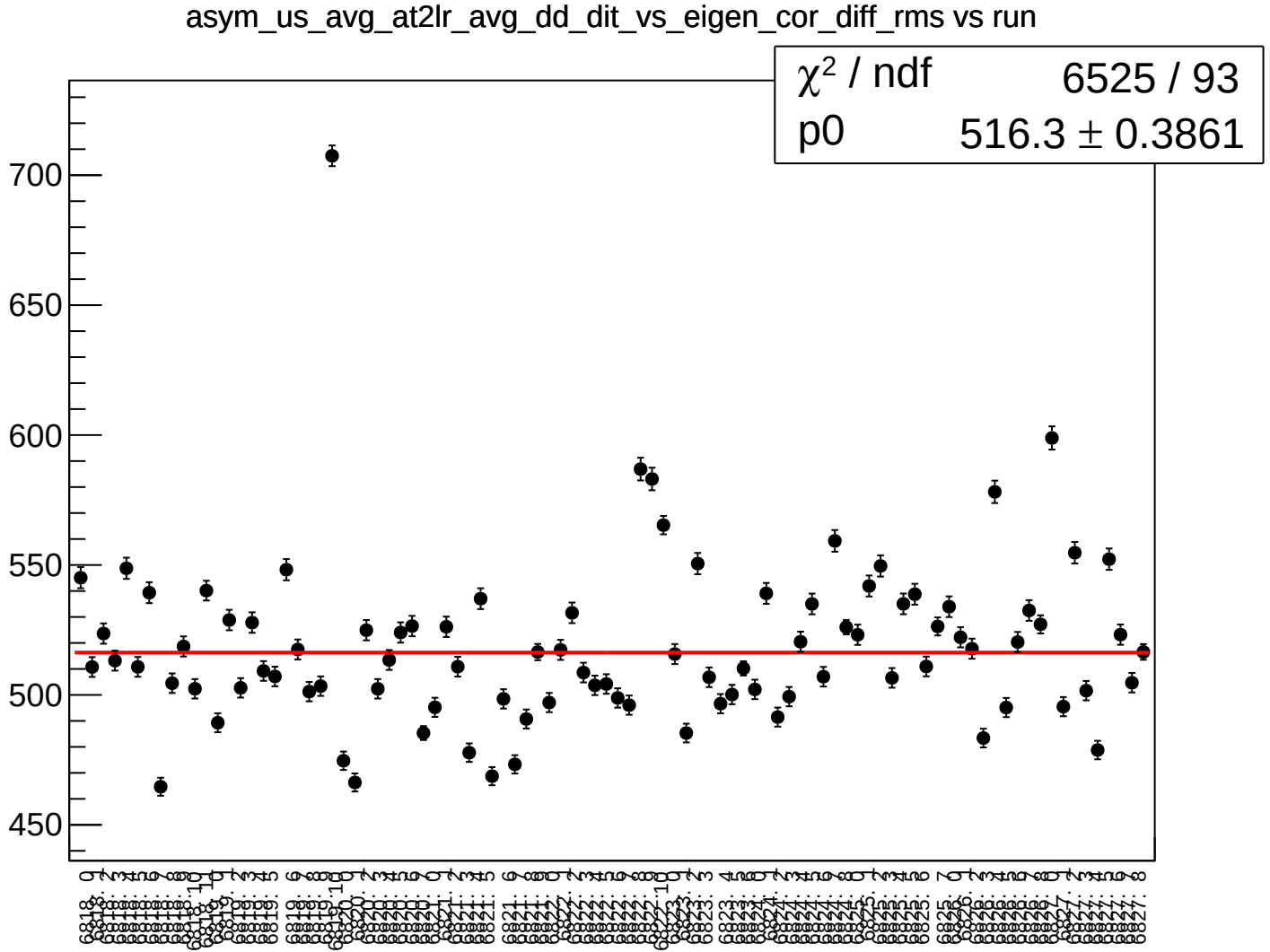

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.43 / 93
p0 −4.114e−14 ± 1.629e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 44.61
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01533
Std Dev 0.9476
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

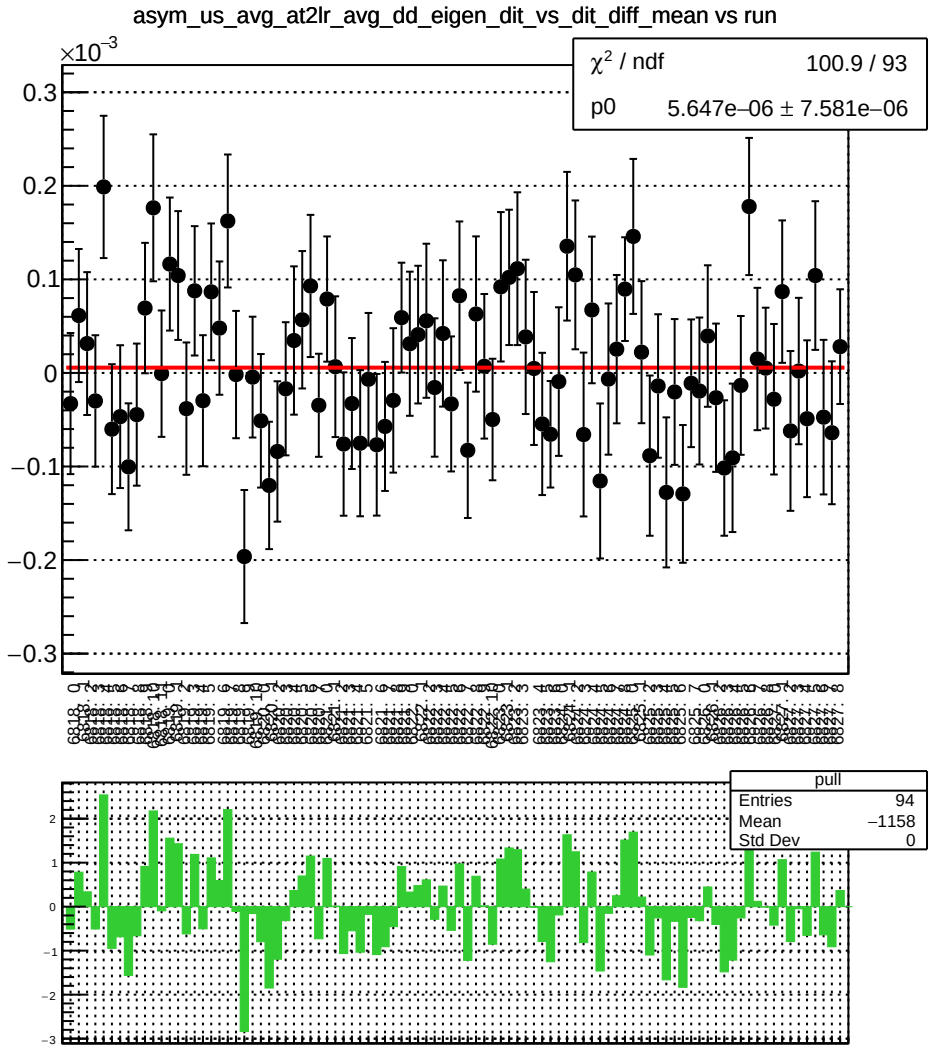

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.213e+06 / 93
p0 8.79e−11 ± 1.152e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

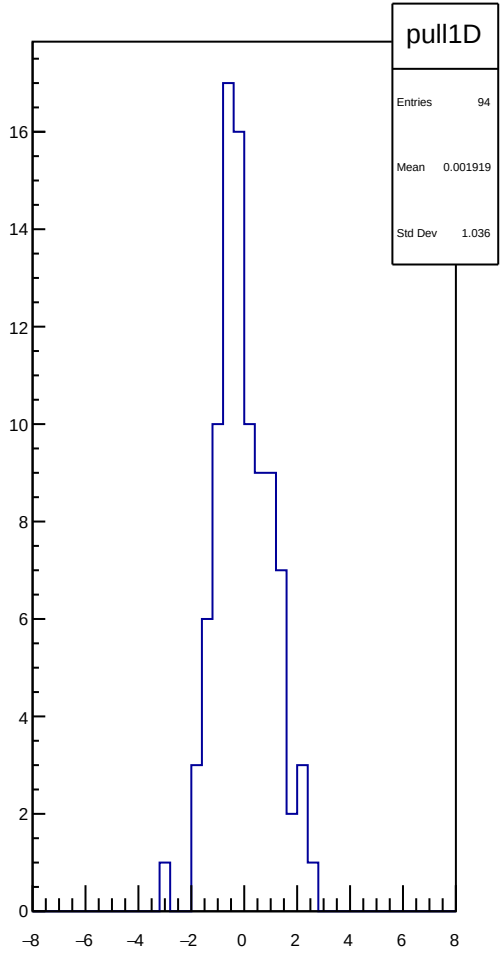

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.62 / 93
p0 −0.3456 ± 0.546
pull
Entries 94
Mean −716.6
Std Dev 0
pull1D
Entries 94
Mean 0.001367
Std Dev 0.9599

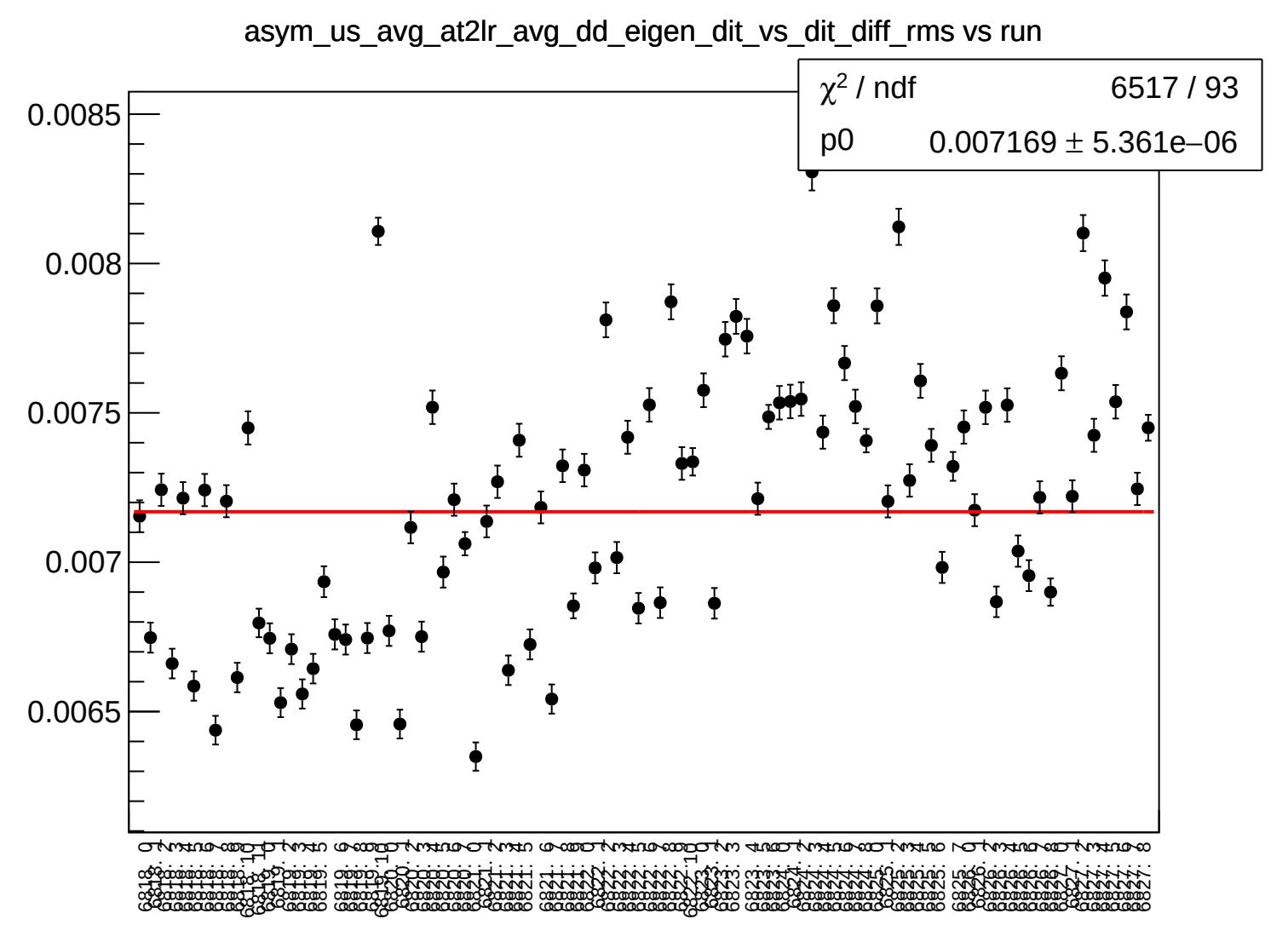

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6525 / 93
p0 516.3 ± 0.3861
700
650
600
550
500
450

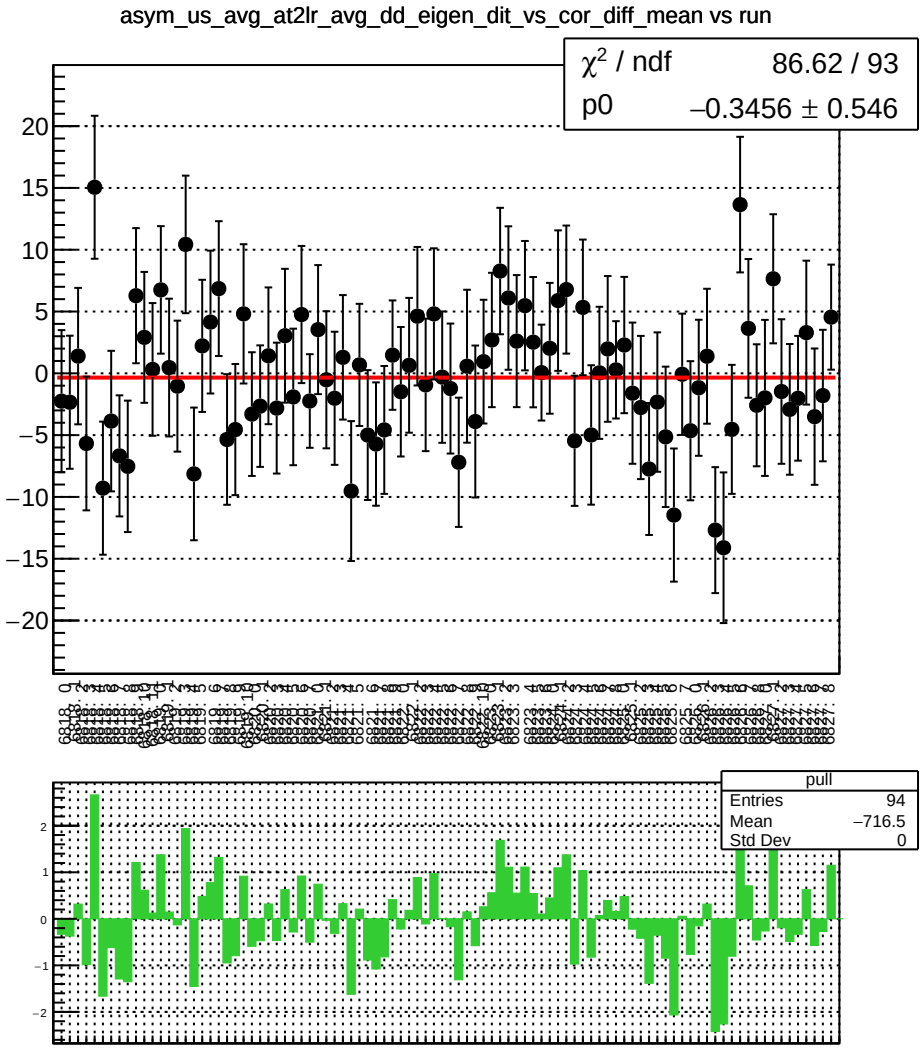

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.62 / 93
p0 −0.3456 ± 0.546
pull
Entries 94
Mean −716.6
Std Dev 0
pull1D
Entries 94
Mean 0.001367
Std Dev 0.9599

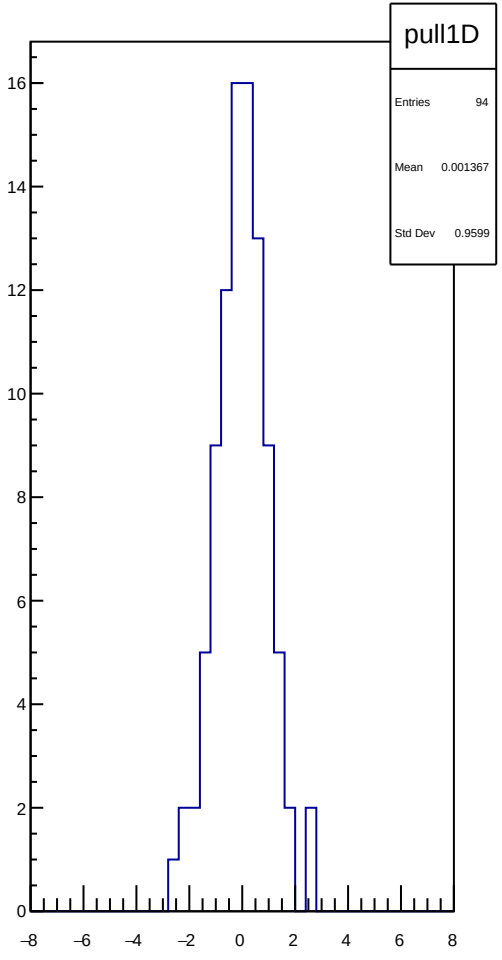

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6525 / 93
p0 516.3 ± 0.3861
700
650
600
550
500
450

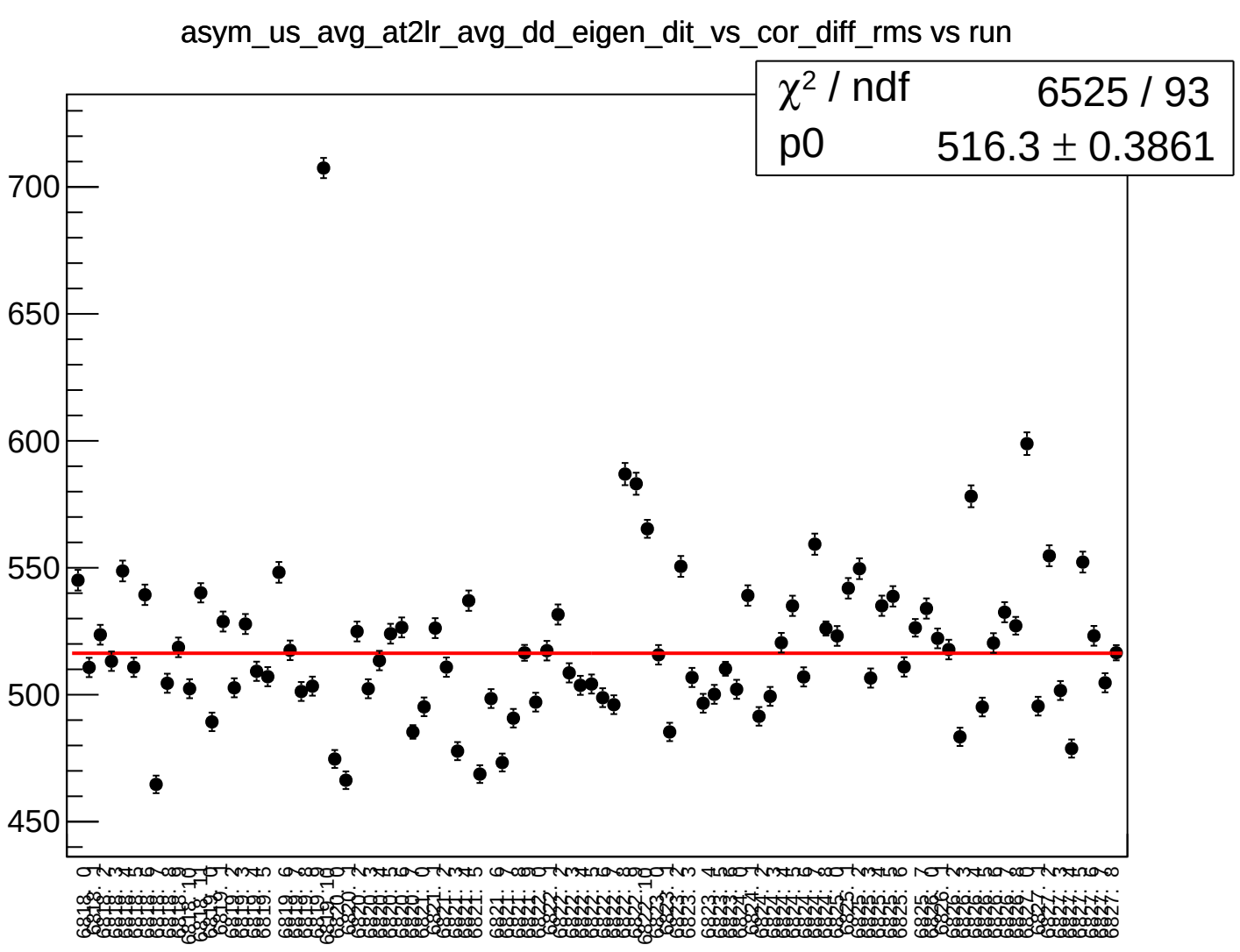

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 100.9 / 93
p0 5.647e−06 ± 7.581e−06
pull
Entries 94
Mean −1158
Std Dev 0

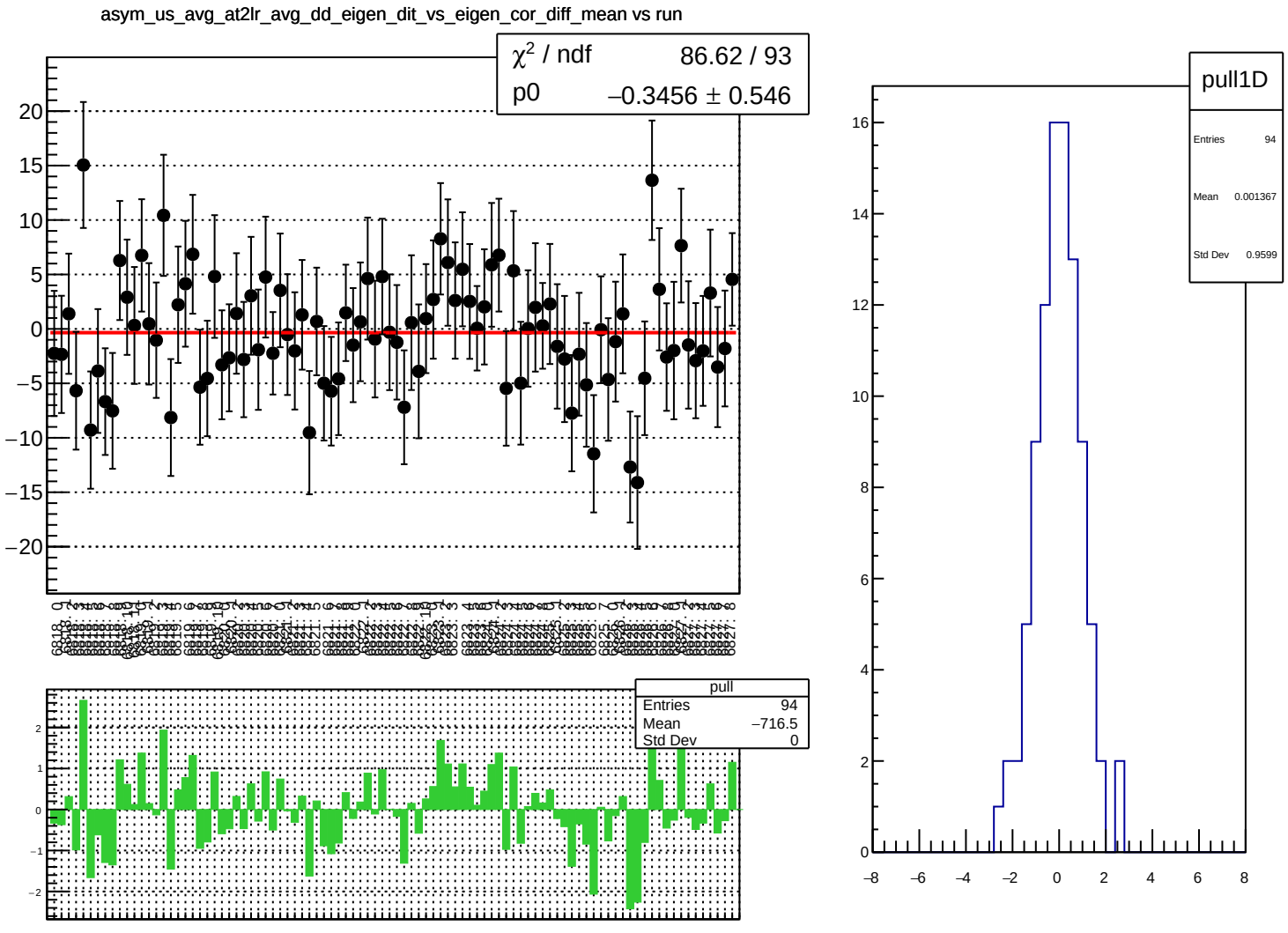

pull1D
Entries 94
Mean 0.001919
Std Dev 1.036

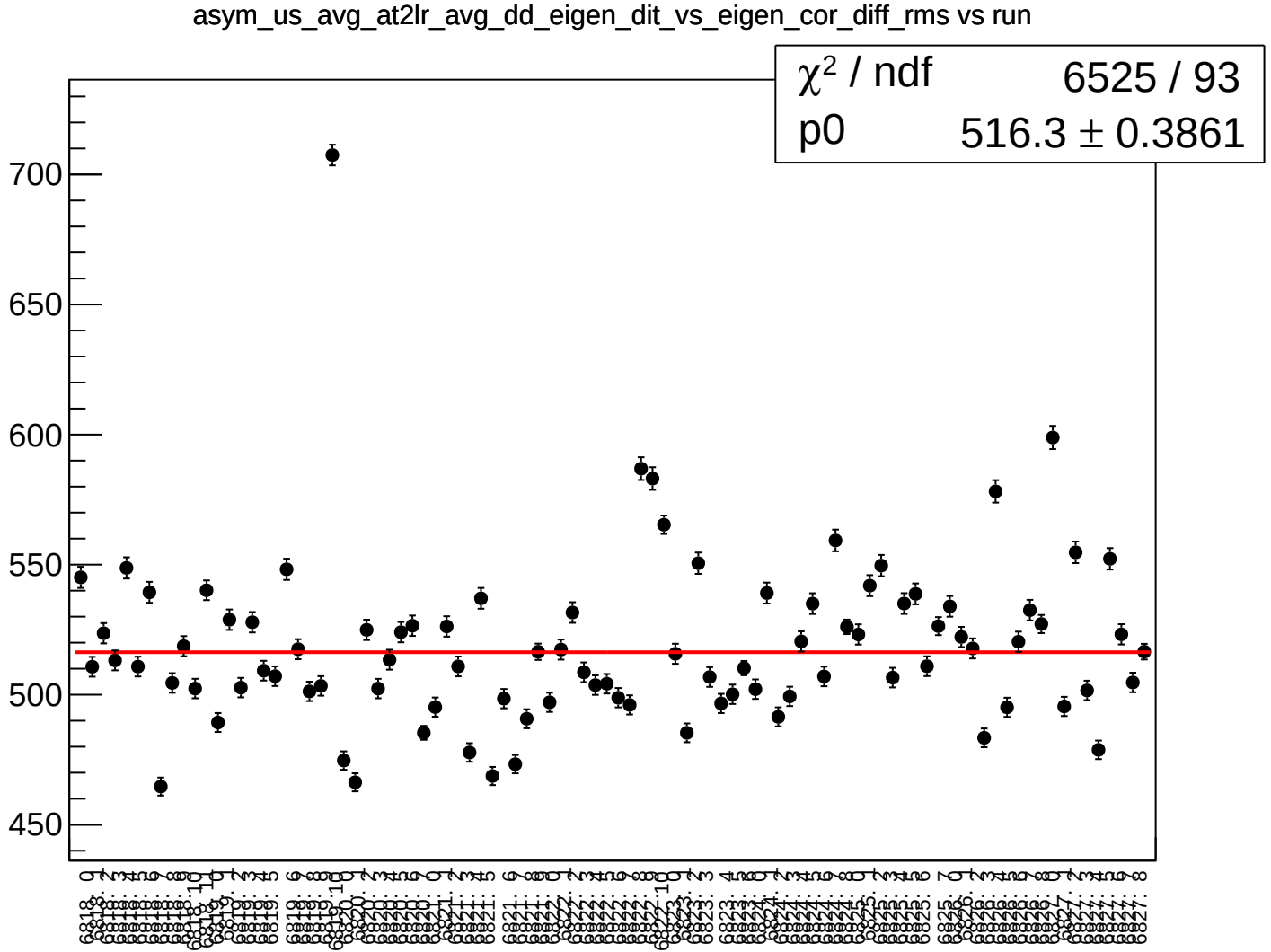

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6517 / 93
p0 0.007169 ± 5.361e−06
0.0085
0.008
0.0075
0.007
0.0065

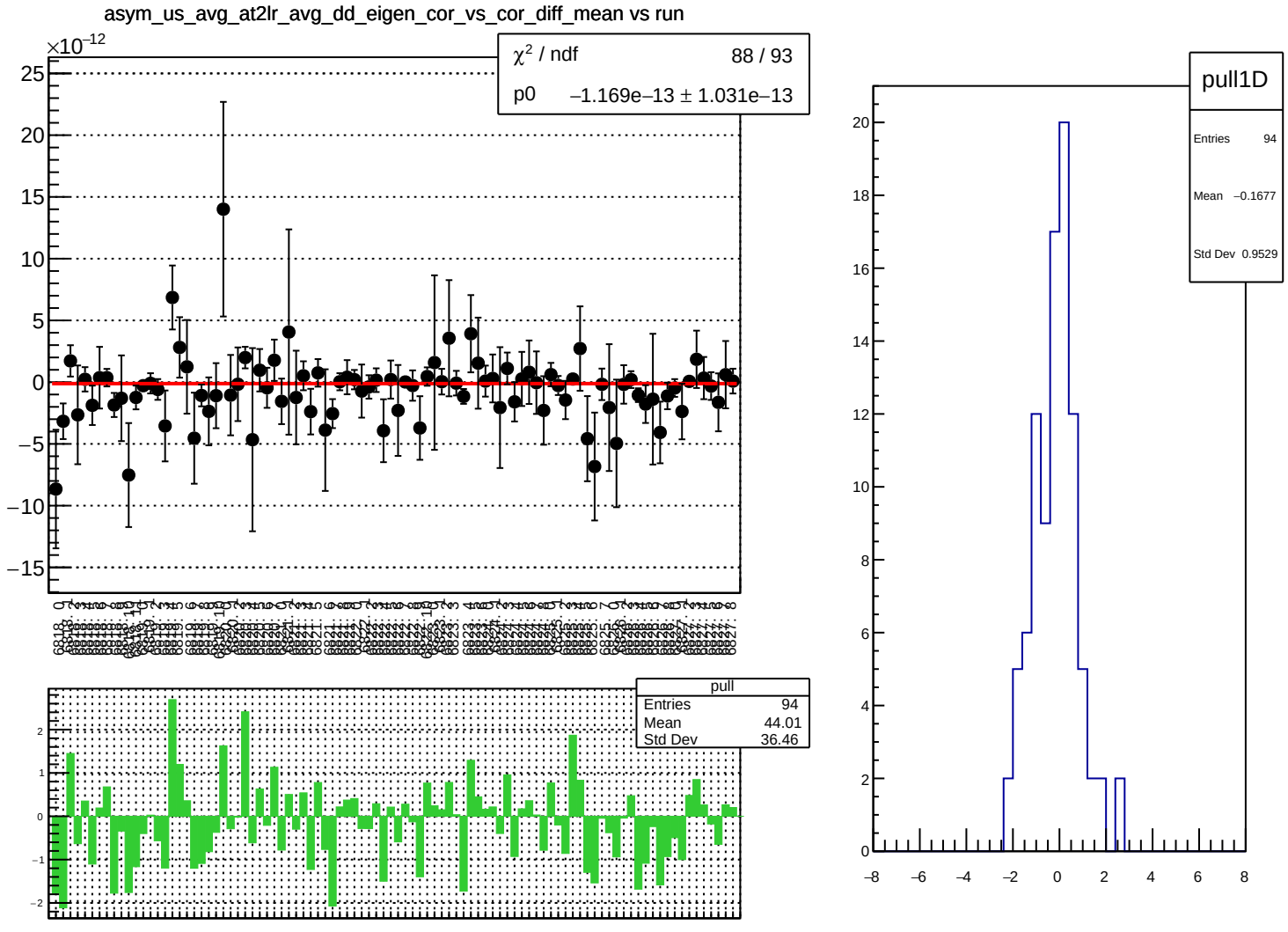

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.62 / 93
p0 −0.3456 ± 0.546
pull
Entries 94
Mean −716.5
Std Dev 0

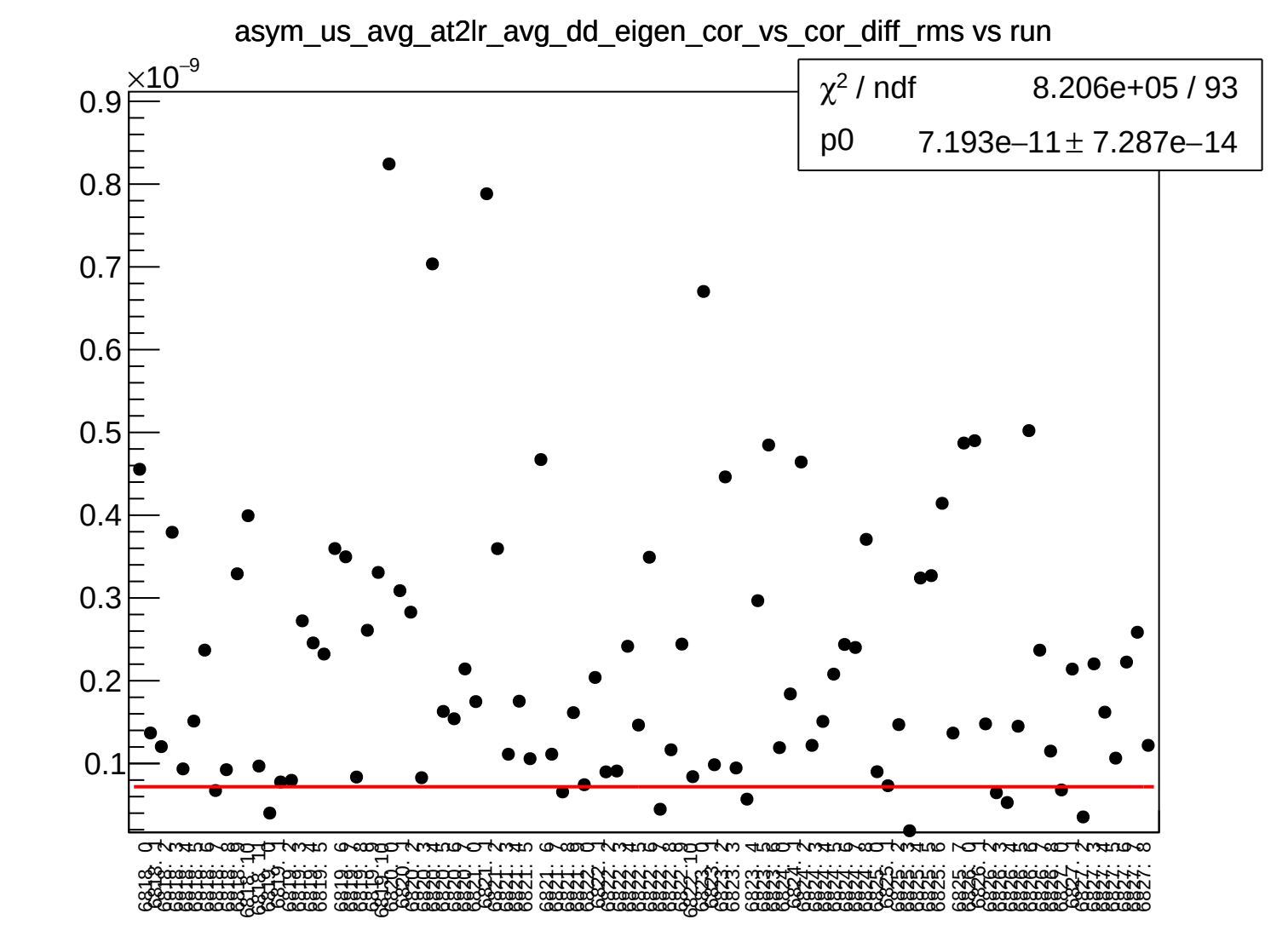

pull1D
Entries 94
Mean 0.001367
Std Dev 0.9599

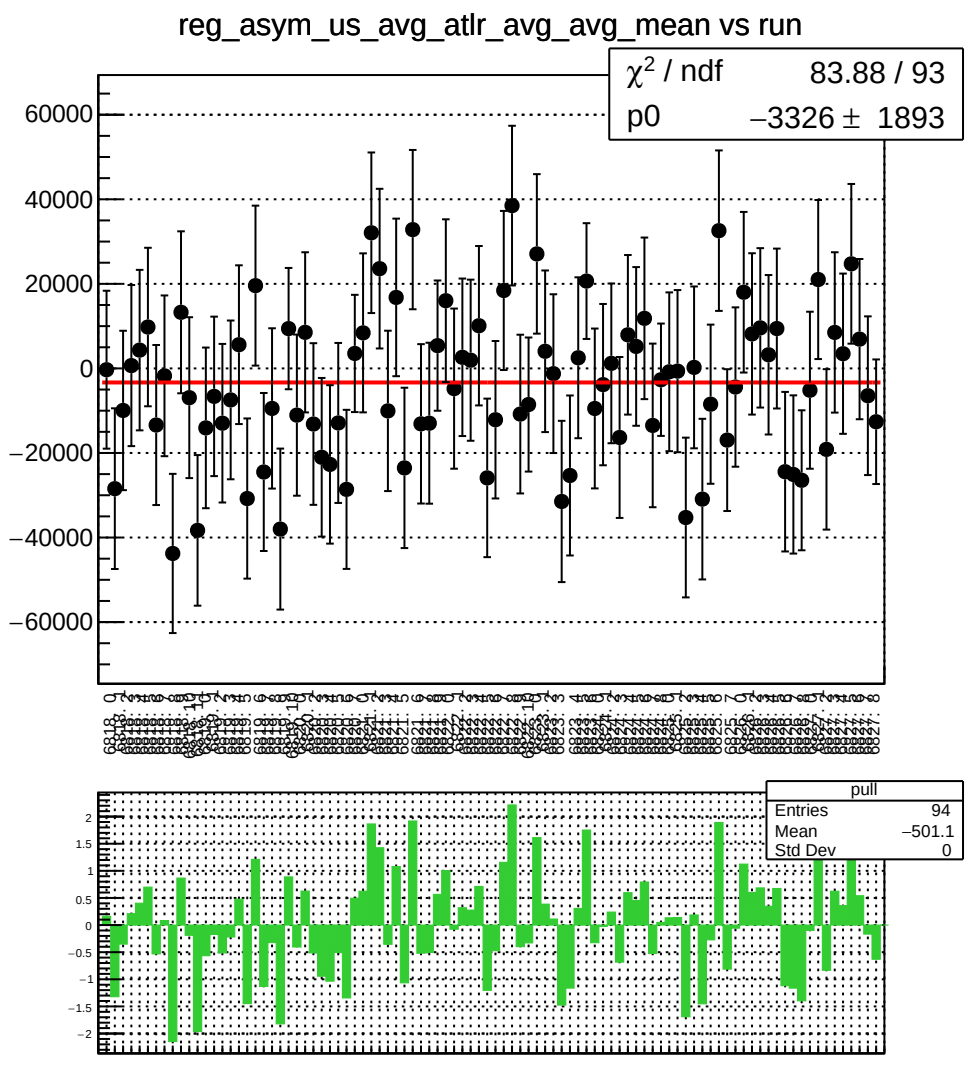

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6525 / 93
p0 516.3 ± 0.3861
700
650
600
550
500
450

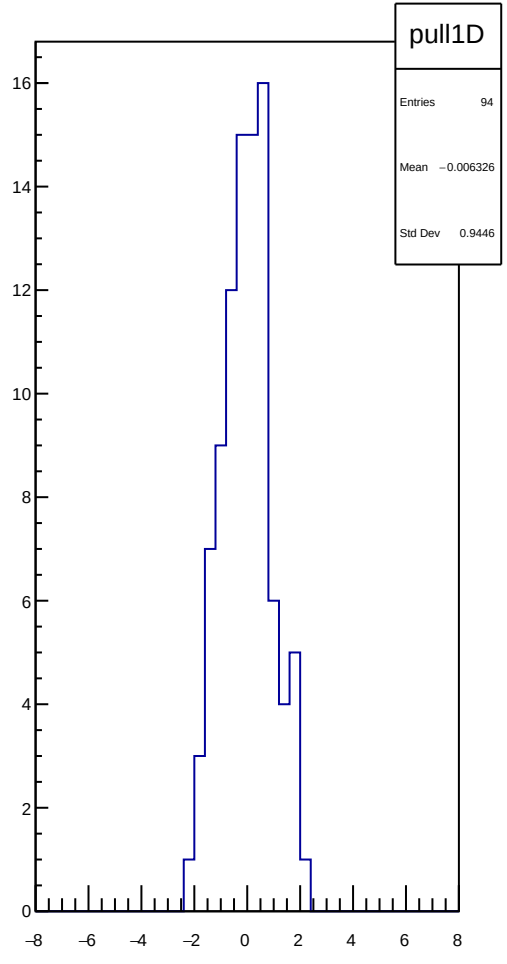

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.62 / 93
p0 −0.3456 ± 0.546
pull
Entries 94
Mean −716.5
Std Dev 0
pull1D
Entries 94
Mean 0.001367
Std Dev 0.9599

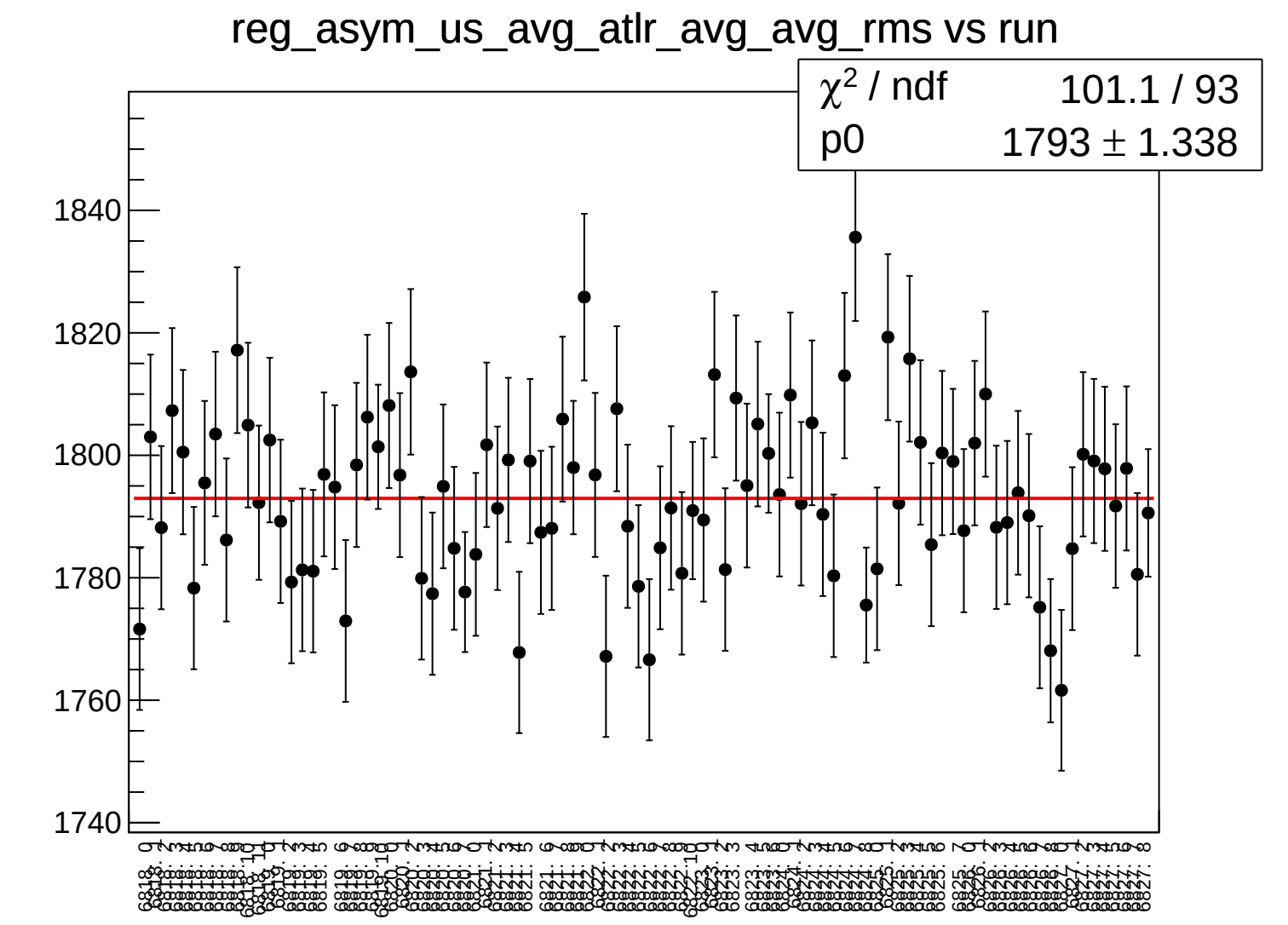

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6525 / 93
p0 516.3 ± 0.3861
700
650
600
550
500
450

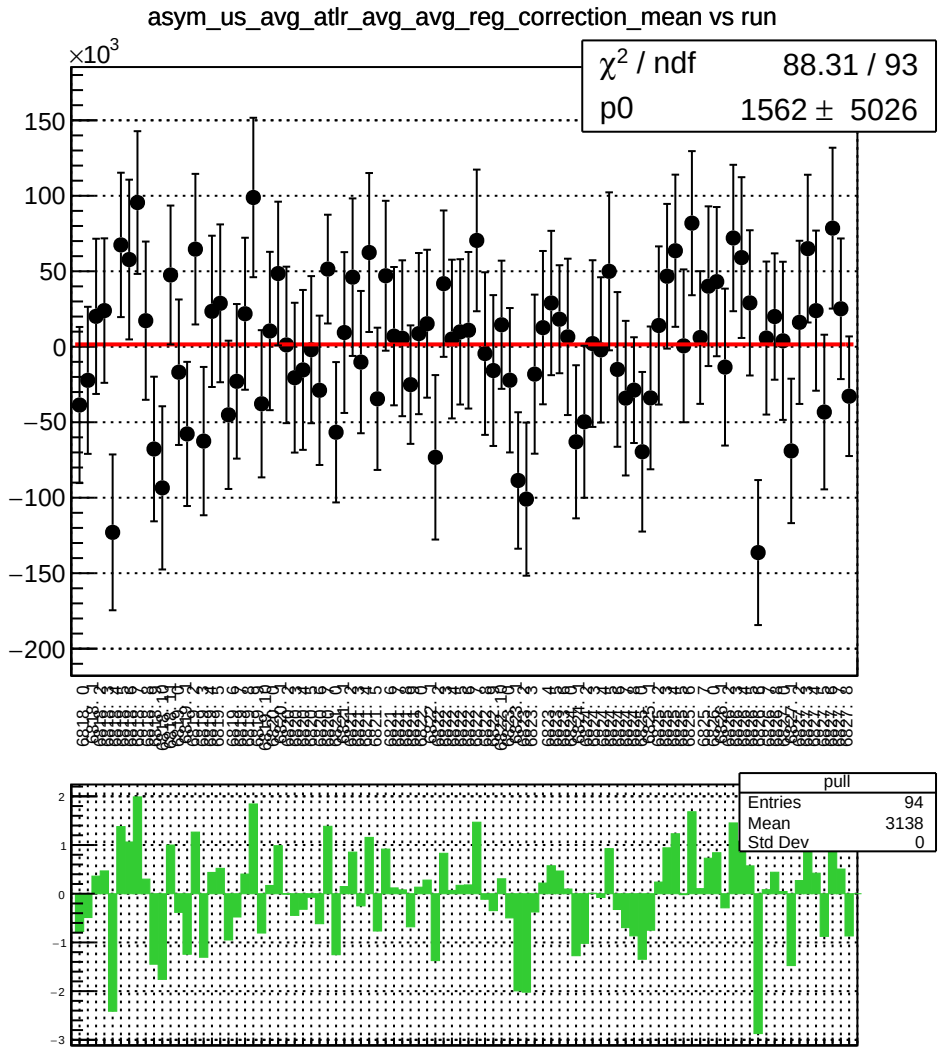

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88 / 93
p0 −1.169e−13 ± 1.031e−13
pull
Entries 94
Mean 44.01
Std Dev 36.46
pull1D
Entries 94
Mean −0.1677
Std Dev 0.9529

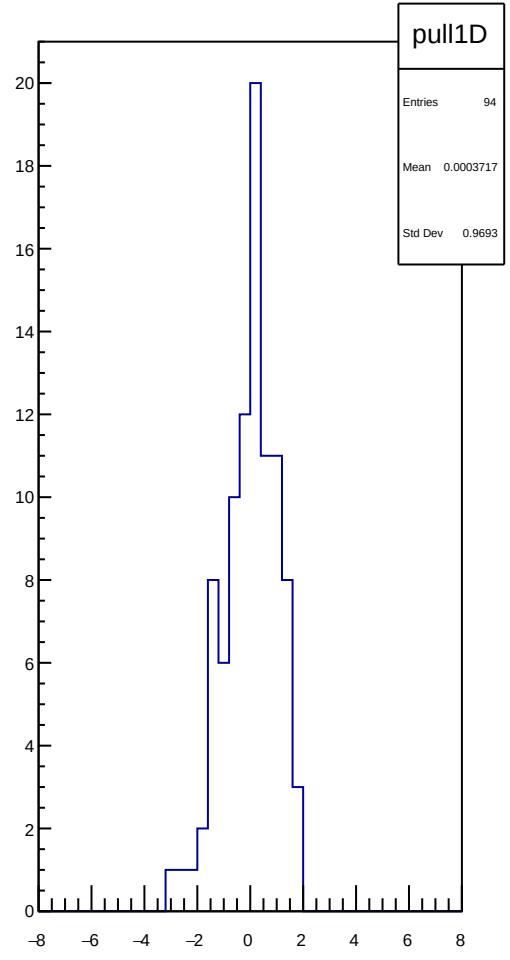

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.206e+05 / 93
p0 7.193e−11 ± 7.287e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

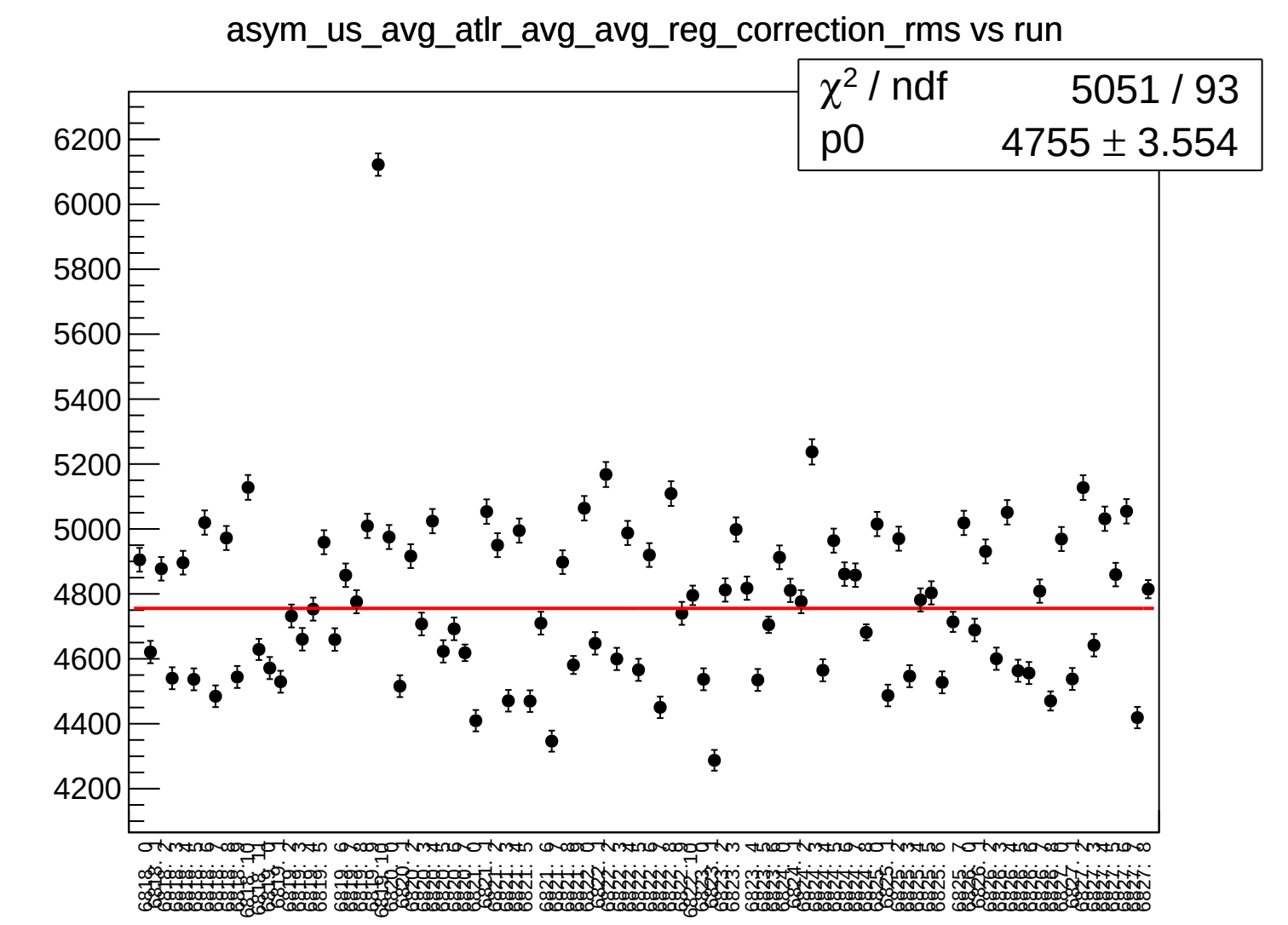

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.88 / 93
p0 −3326 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −501.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

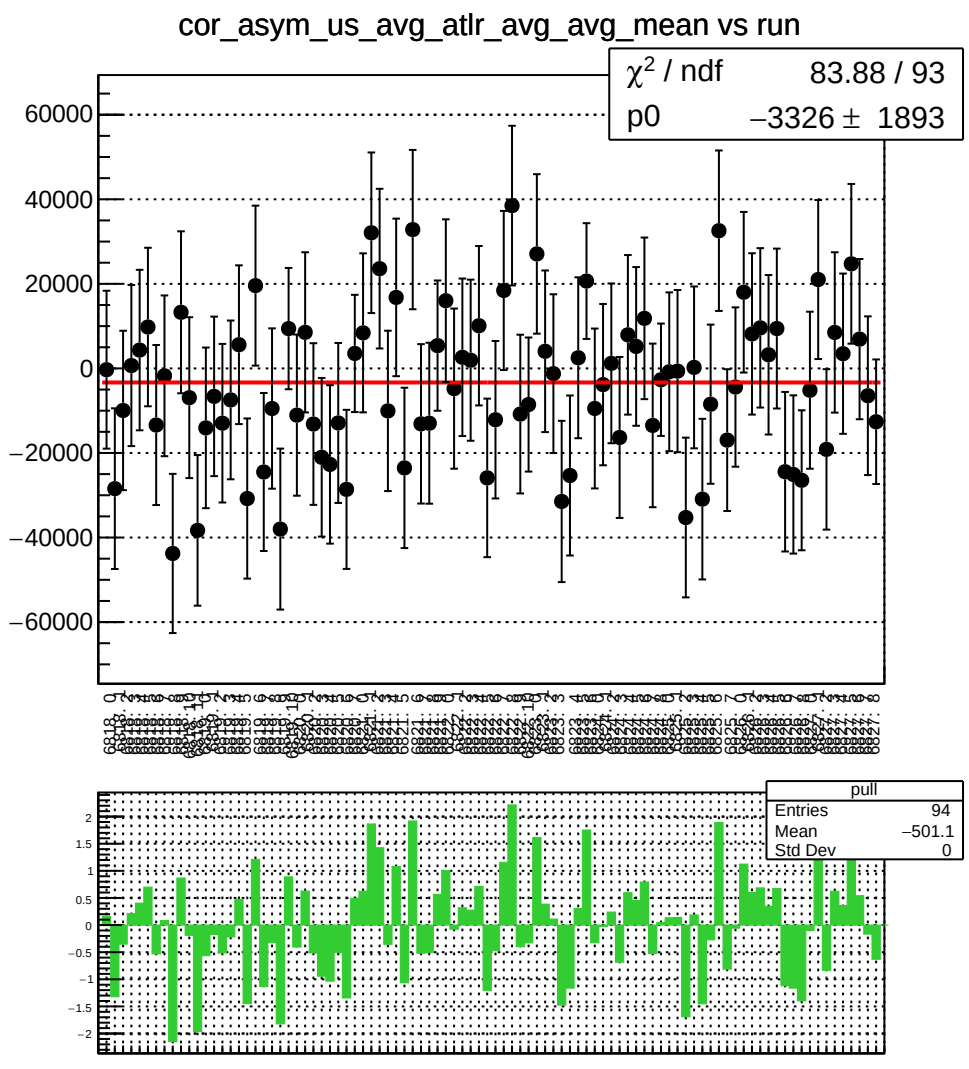

pull1D
Entries 94
Mean −0.006326
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

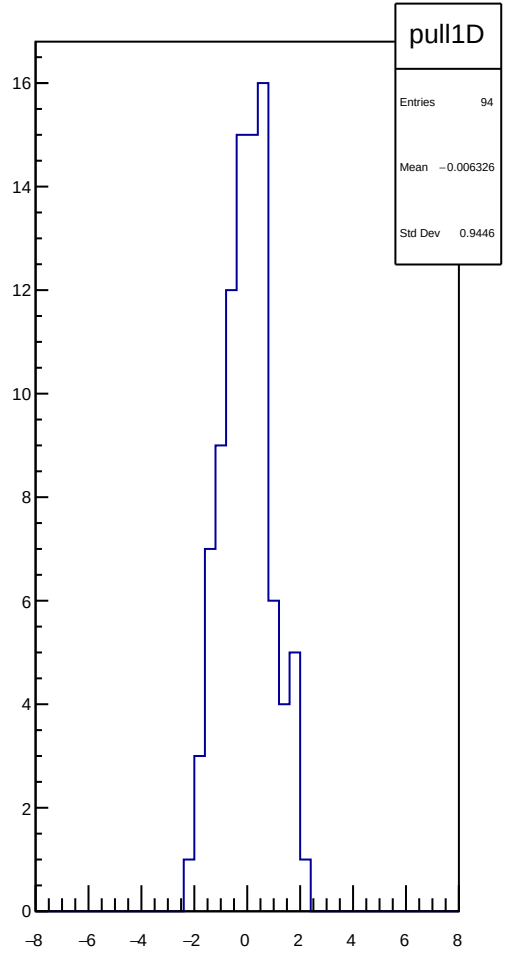

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.1 / 93
p0 1793 ± 1.338
1840
1820
1800
1780
1760
1740

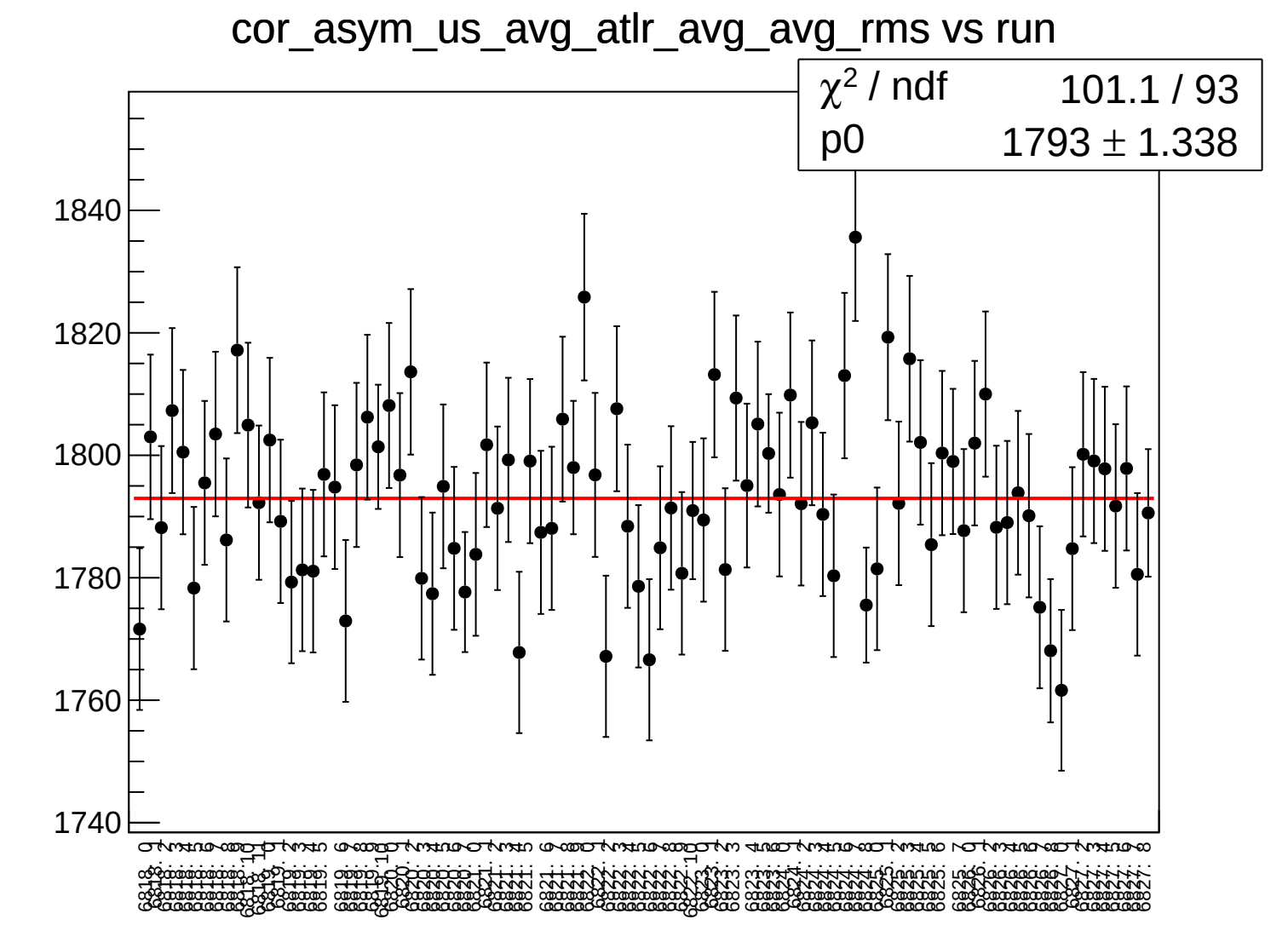

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.31 / 93
p0 1562 ± 5026
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 3138
Std Dev 0
2
1
0
−1
−2
−3

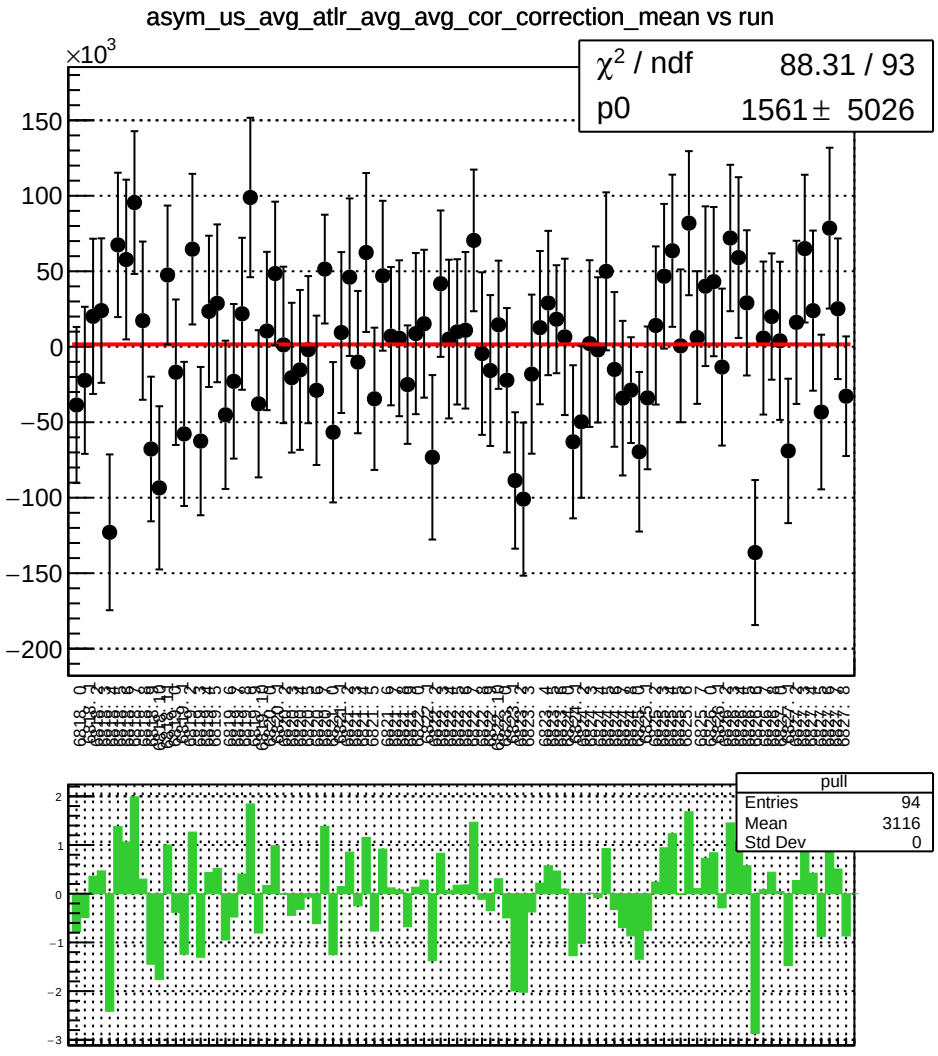

pull1D
Entries 94
Mean 0.0003717
Std Dev 0.9693
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

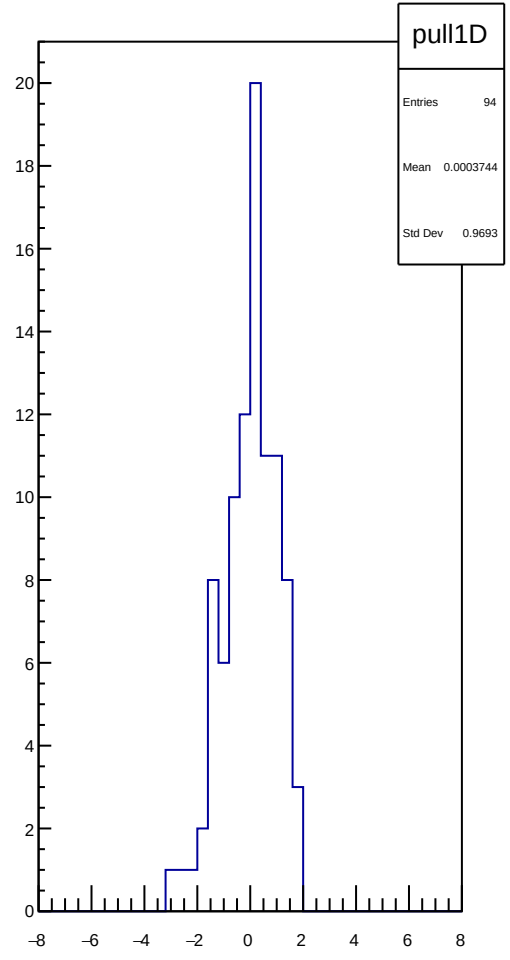

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 5051 / 93
p0 4755 ± 3.554
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

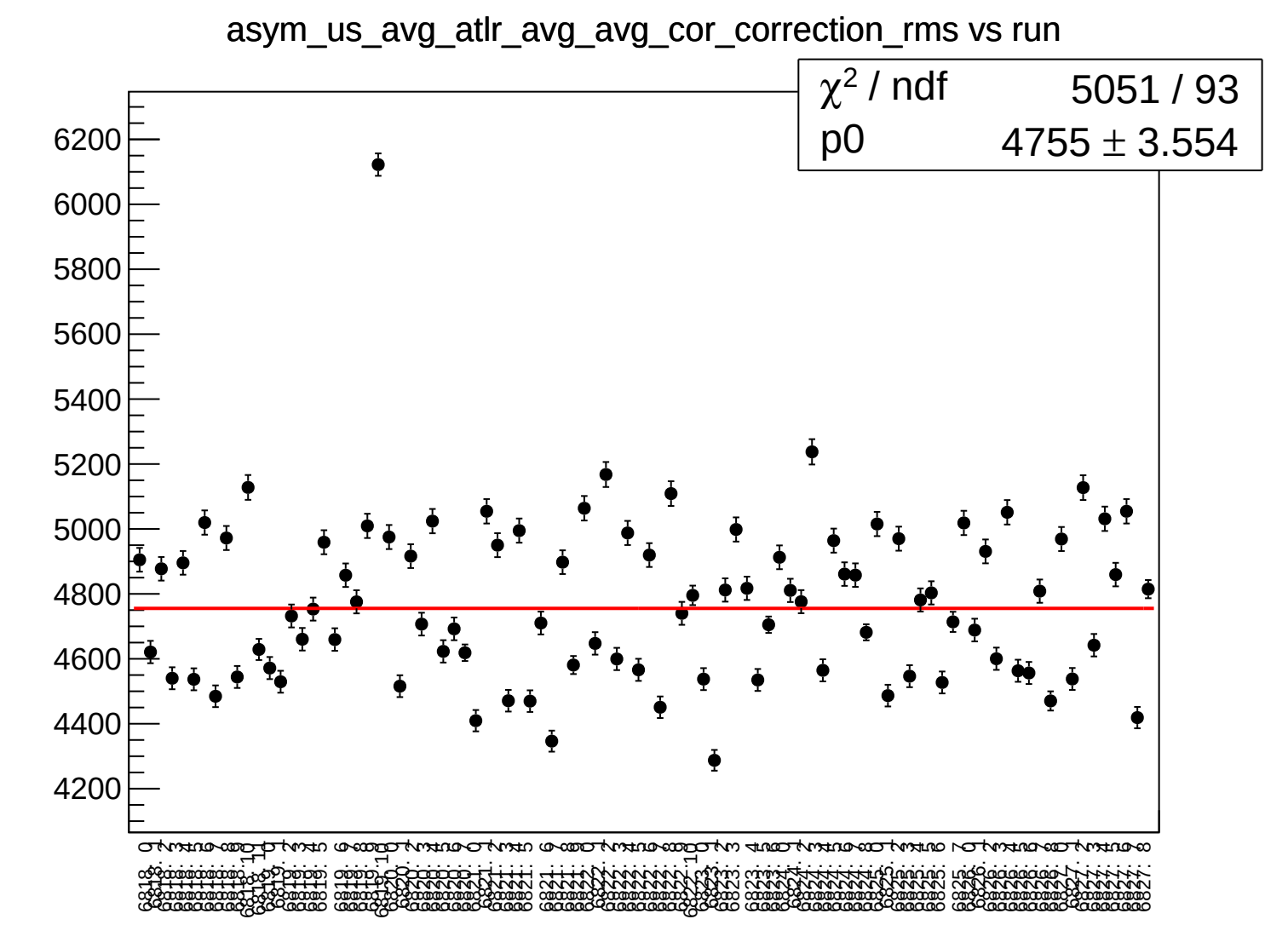

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.88 / 93
p0 −3326 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −501.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

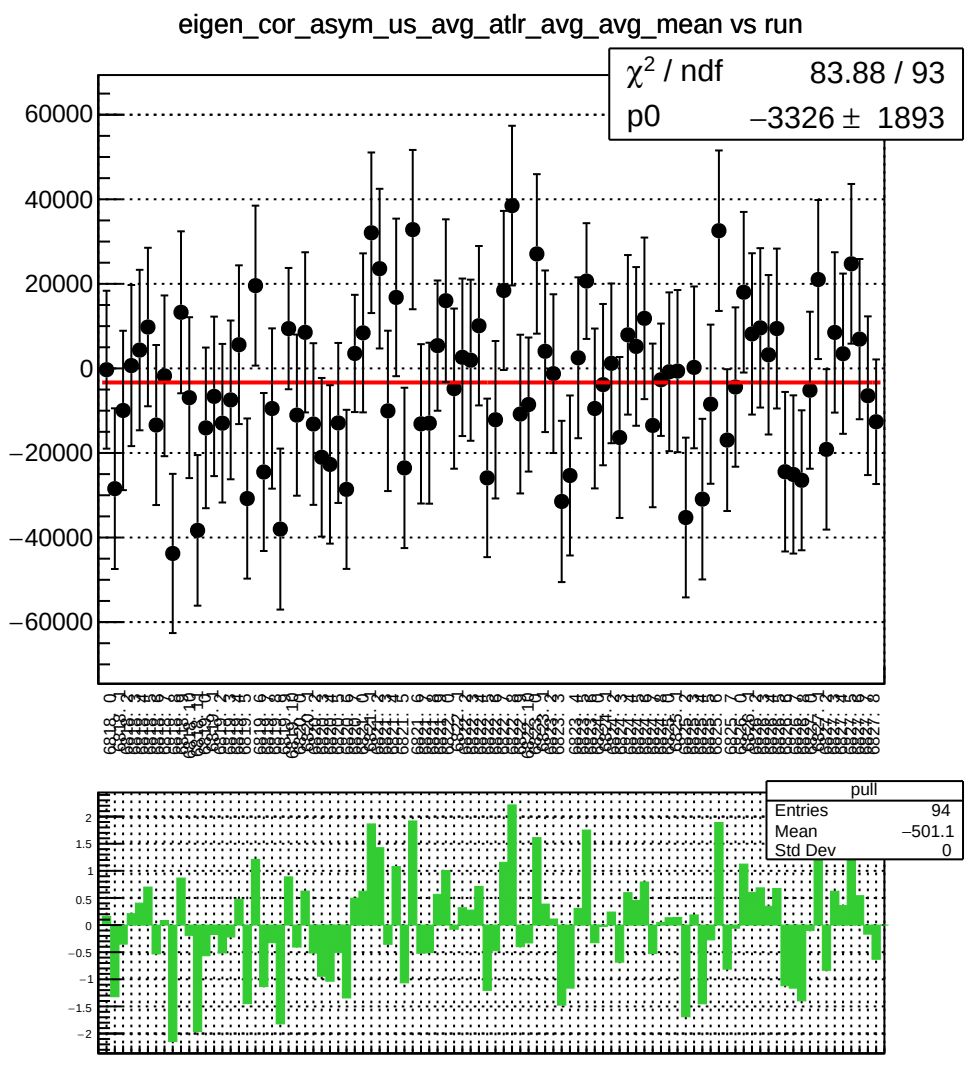

pull1D
Entries 94
Mean −0.006326
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

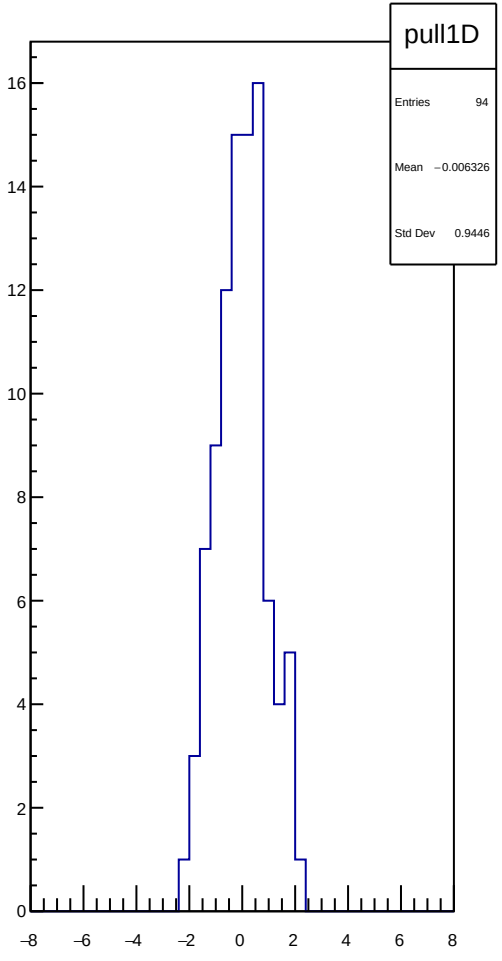

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 101.1 / 93
p0 1793 ± 1.338
1840
1820
1800
1780
1760
1740

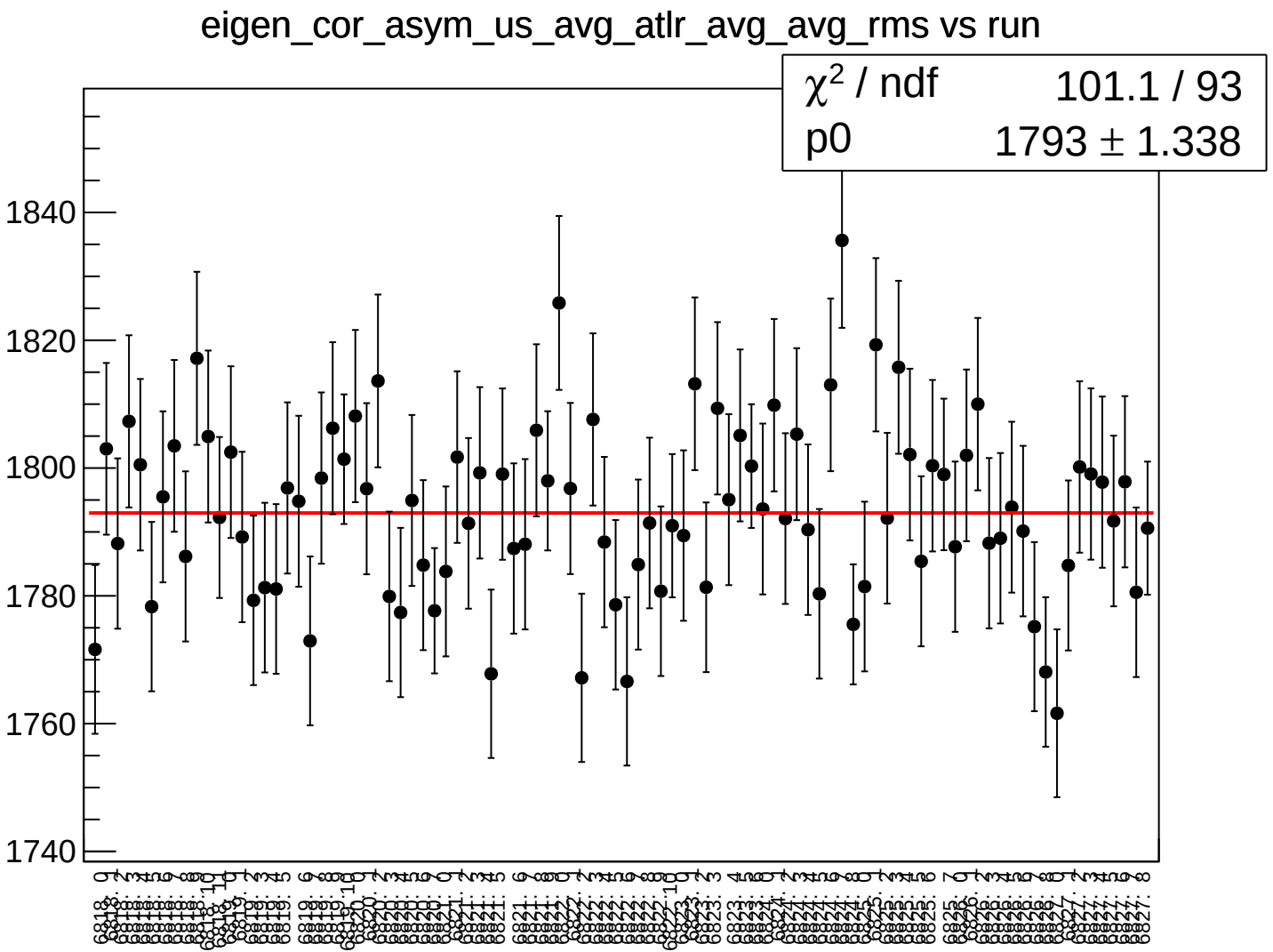

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.31 / 93
p0 1561 ± 5026
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 3116
Std Dev 0
2
1
0
−1
−2
−3

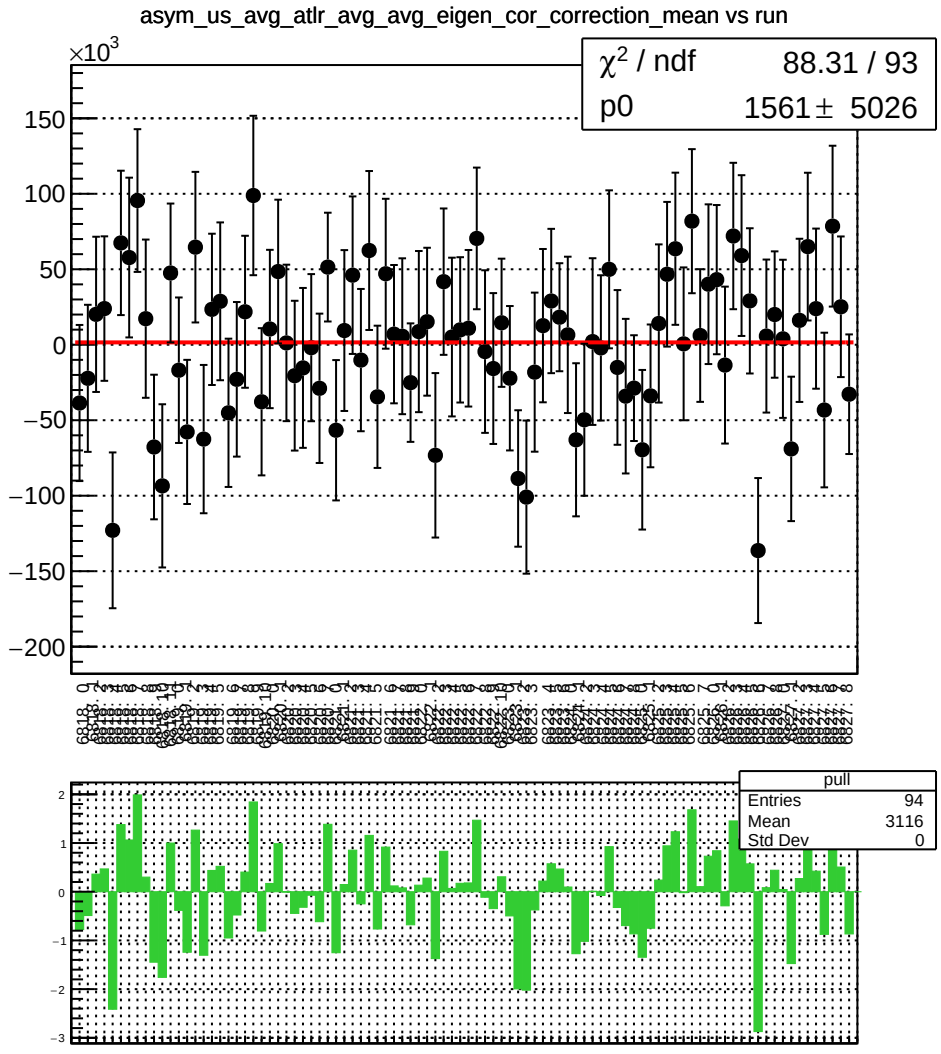

pull1D
Entries 94
Mean 0.0003744
Std Dev 0.9693
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

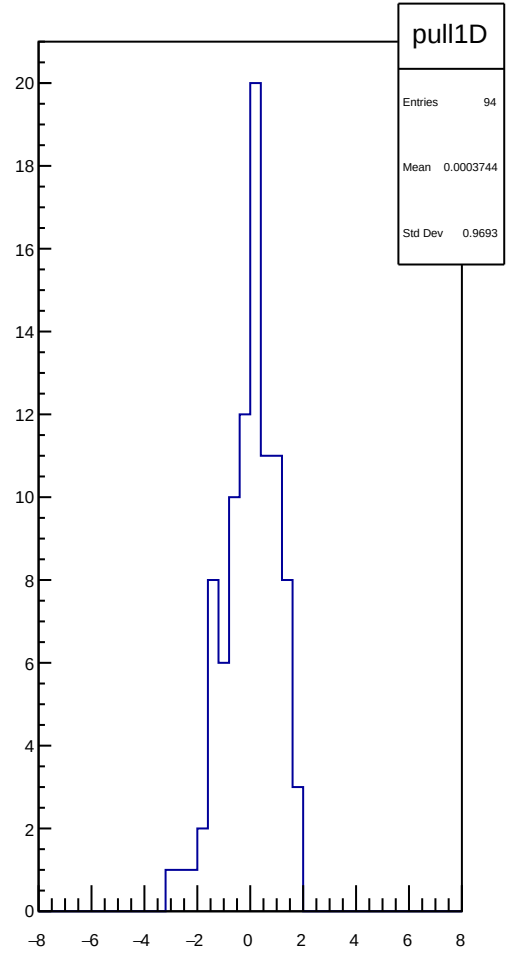

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 5051 / 93
p0 4755 ± 3.554
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

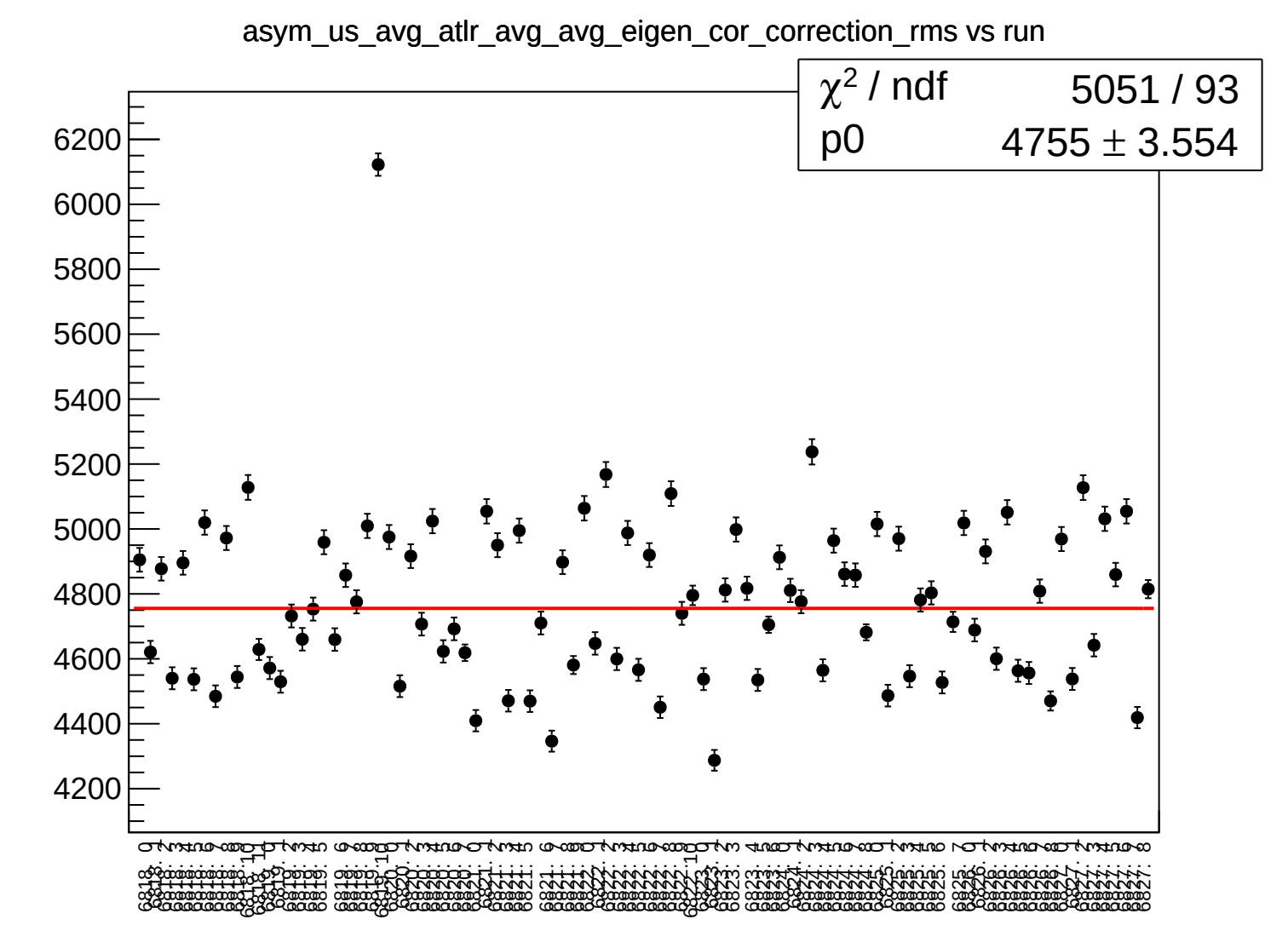

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 83.88 / 93
p0 −3326 ± 1893
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −501.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

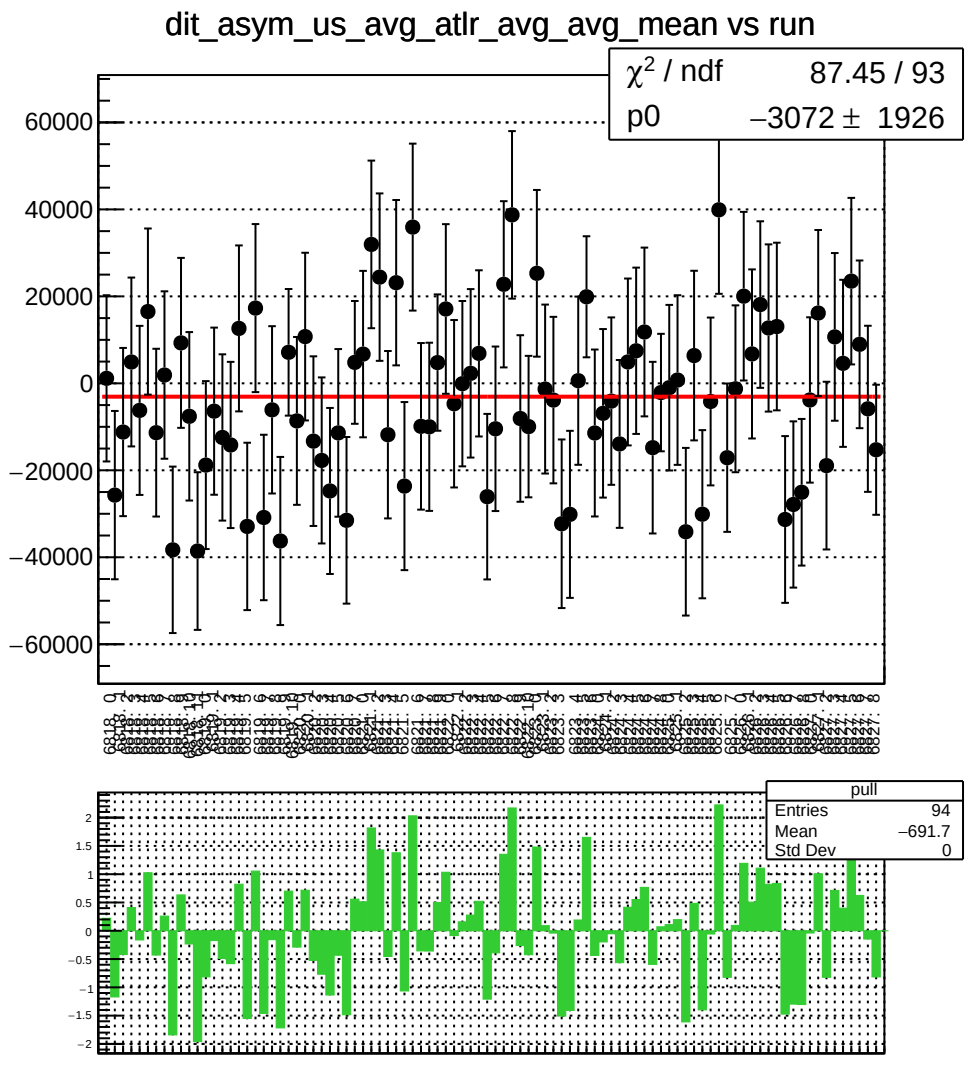

pull1D
Entries 94
Mean −0.006326
Std Dev 0.9446
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

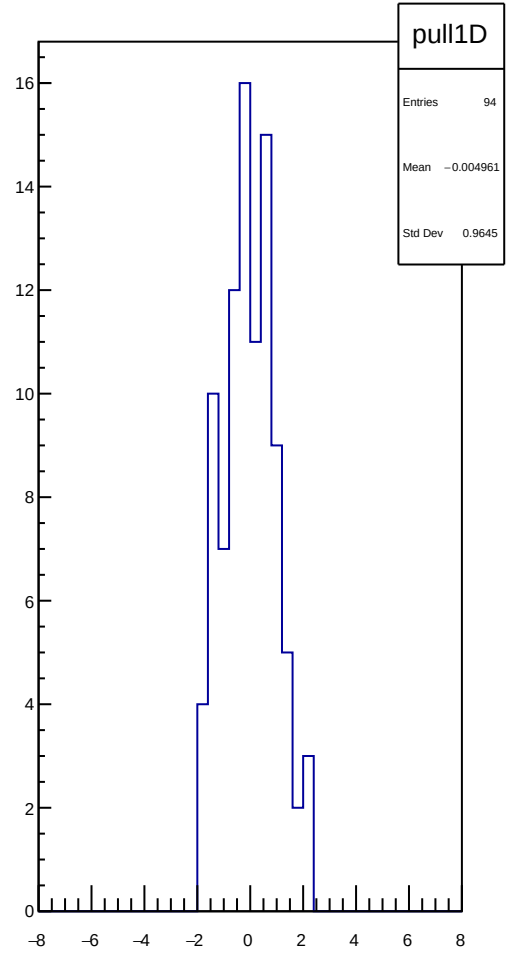

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 101.1 / 93
p0 1793 ± 1.338
1840
1820
1800
1780
1760
1740

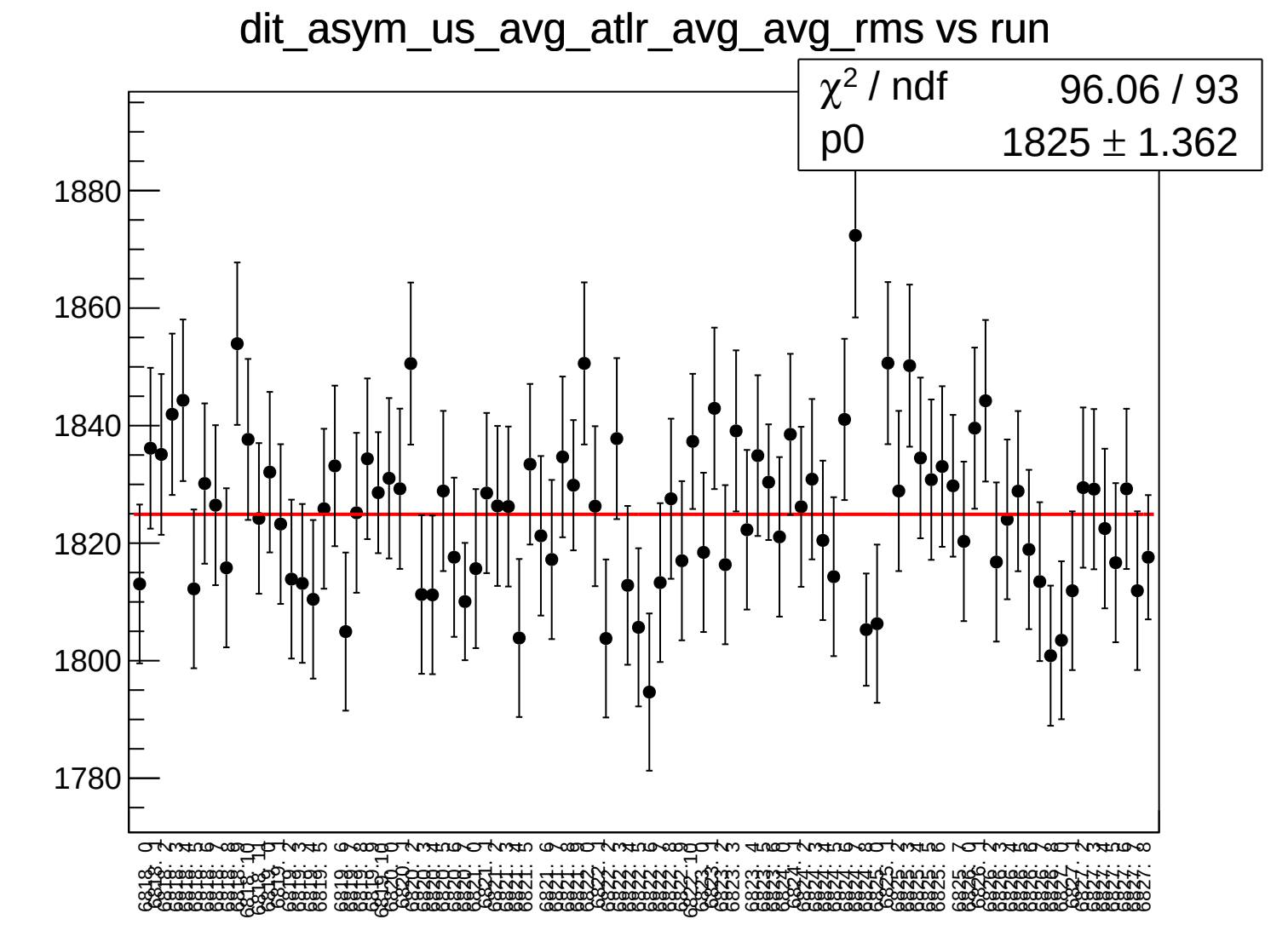

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.31 / 93
p0 1561 ± 5026
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 3116
Std Dev 0
2
1
0
−1
−2
−3

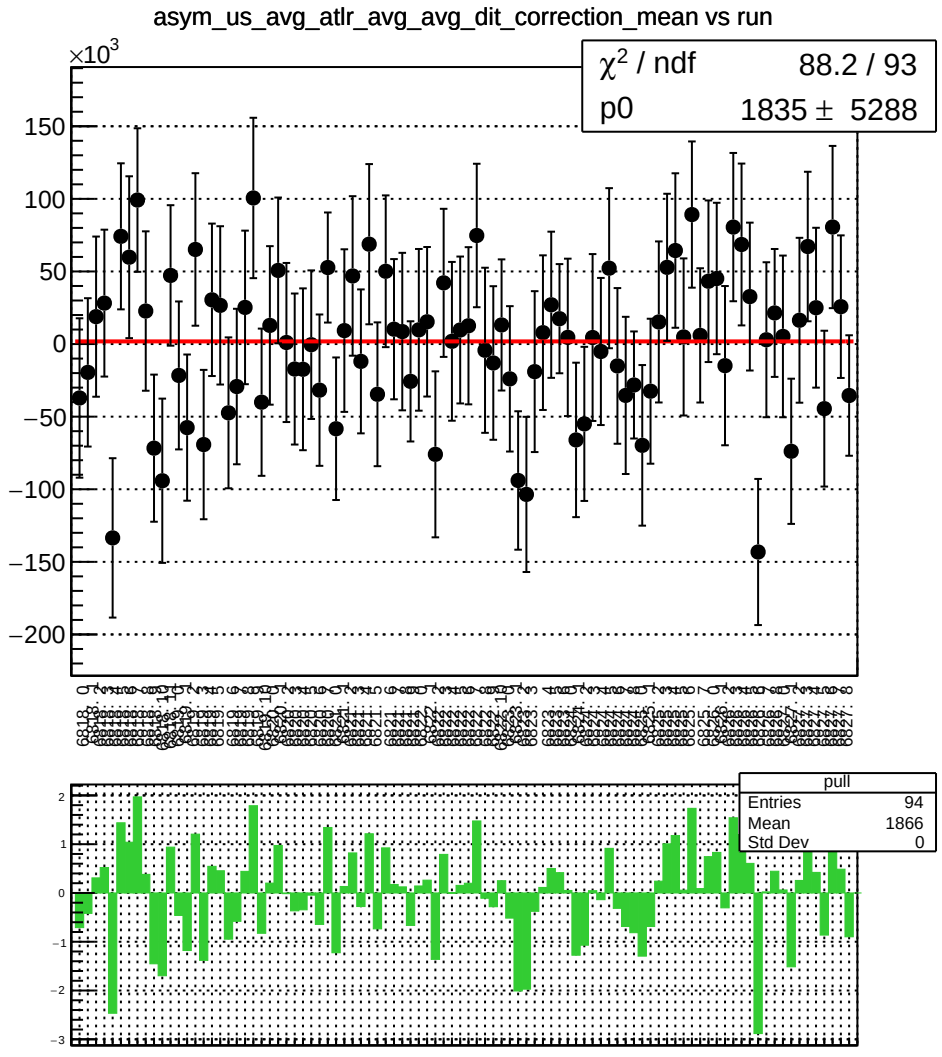

pull1D
Entries 94
Mean 0.0003744
Std Dev 0.9693
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

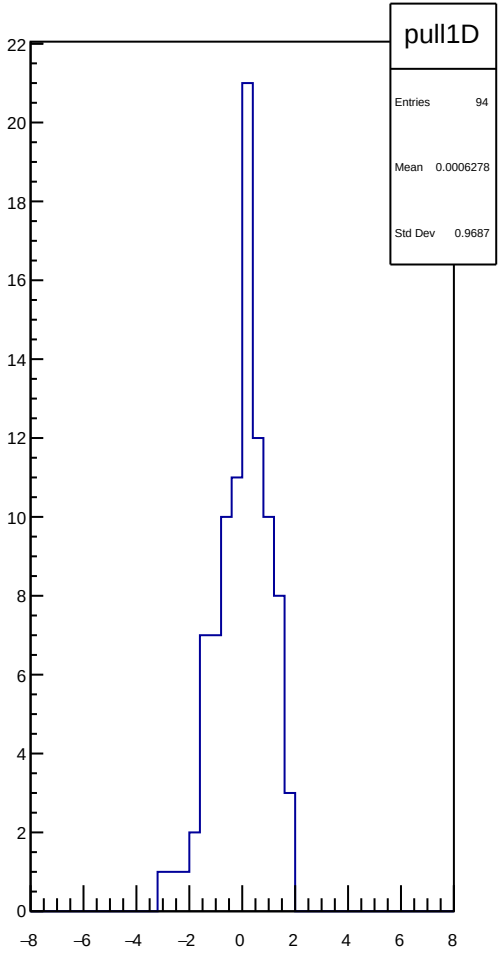

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 5051 / 93
p0 4755 ± 3.554
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

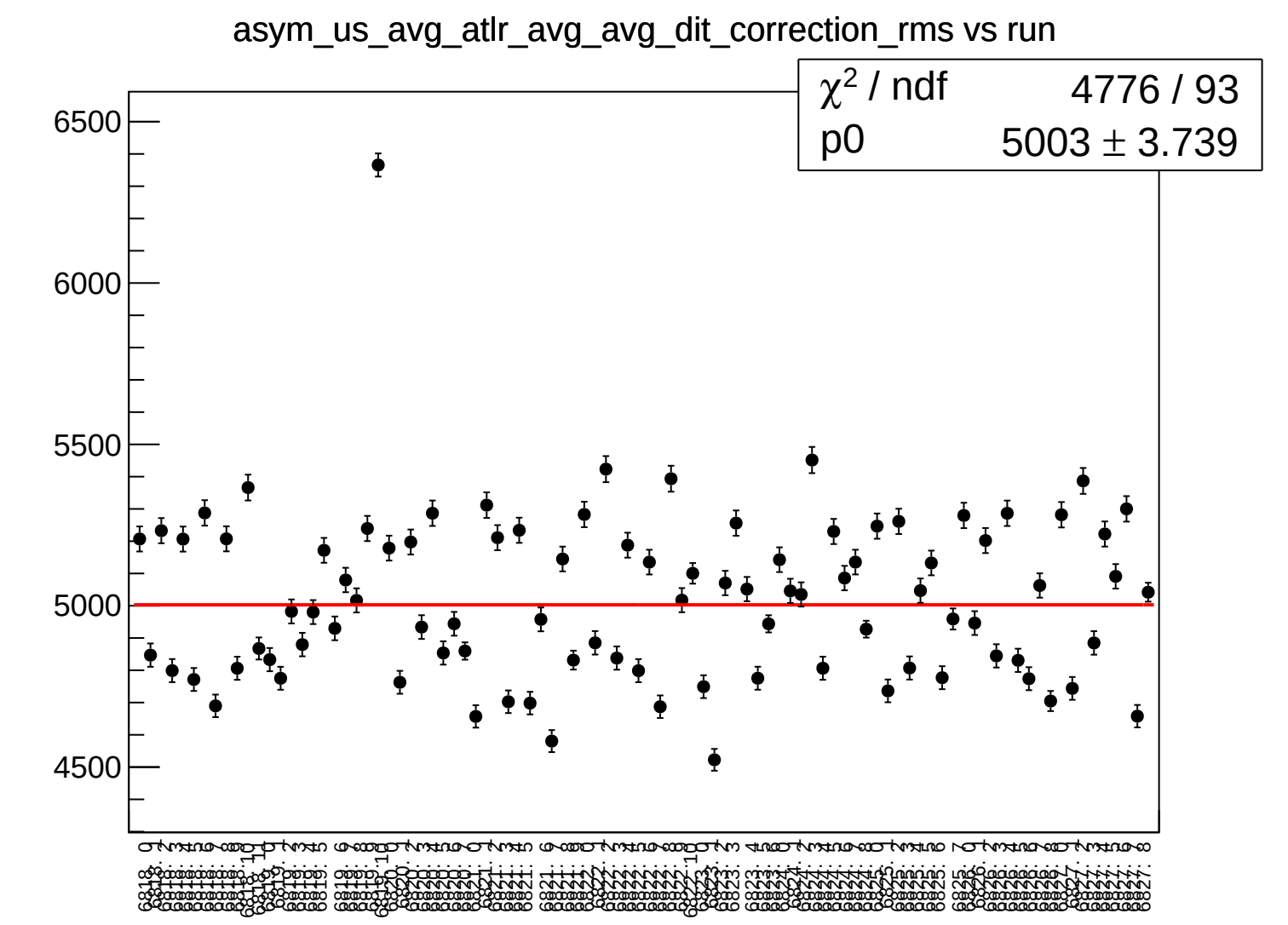

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.45 / 93
p0 −3072 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −691.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

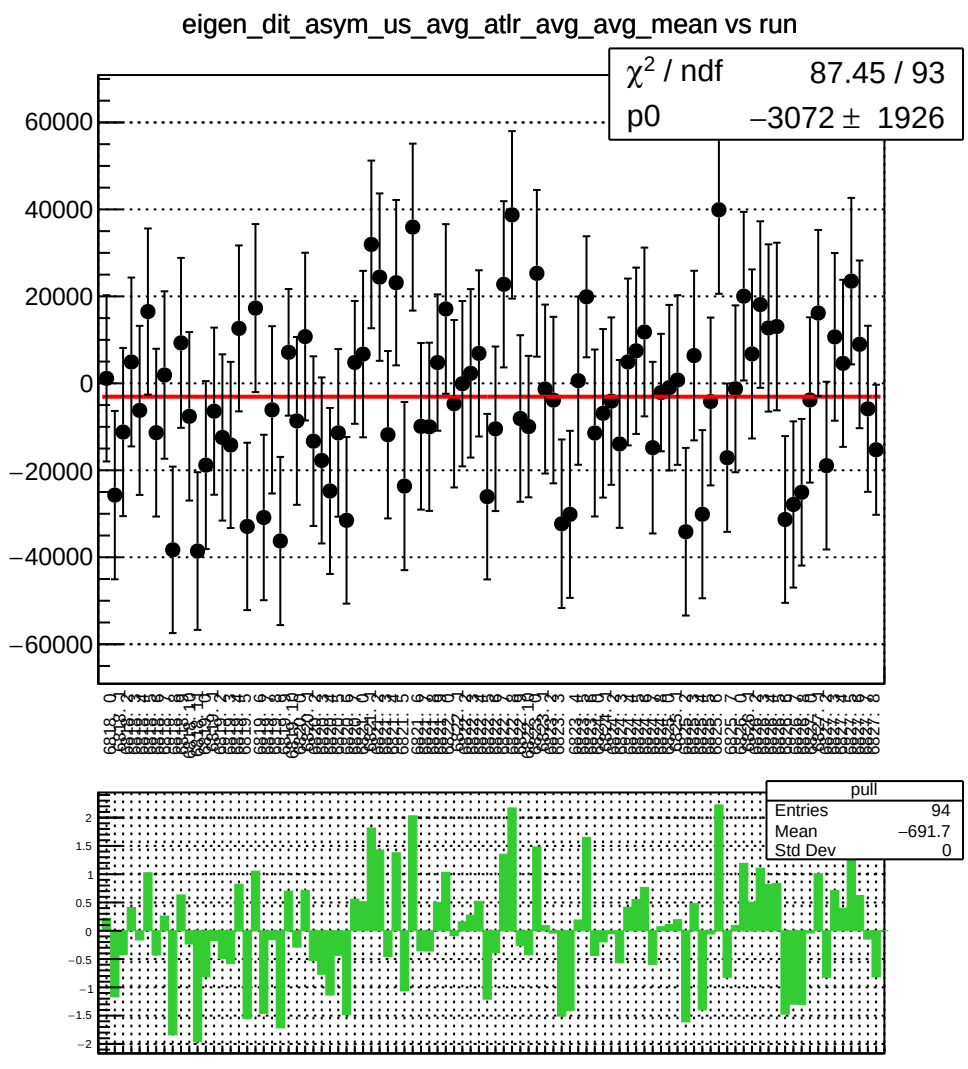

pull1D
Entries 94
Mean −0.004961
Std Dev 0.9645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

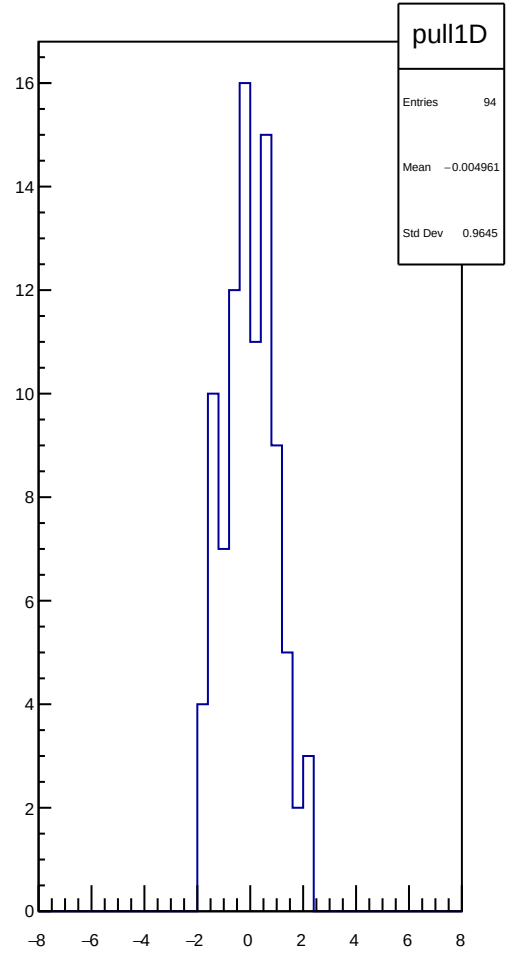

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 96.06 / 93
p0 1825 ± 1.362
1880
1860
1840
1820
1800
1780

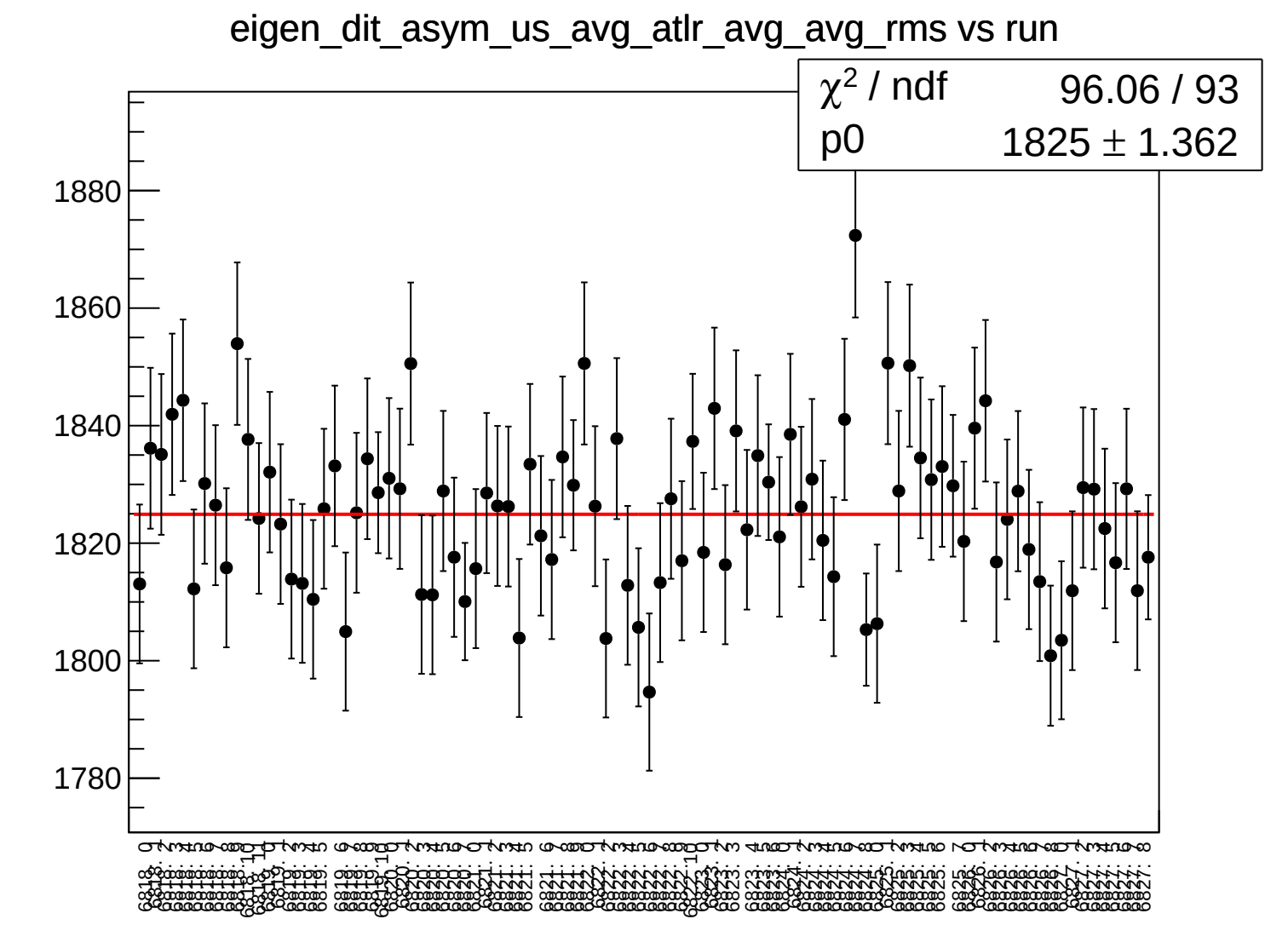

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.2 / 93
p0 1835 ± 5288
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 1866
Std Dev 0
2
1
0
−1
−2
−3

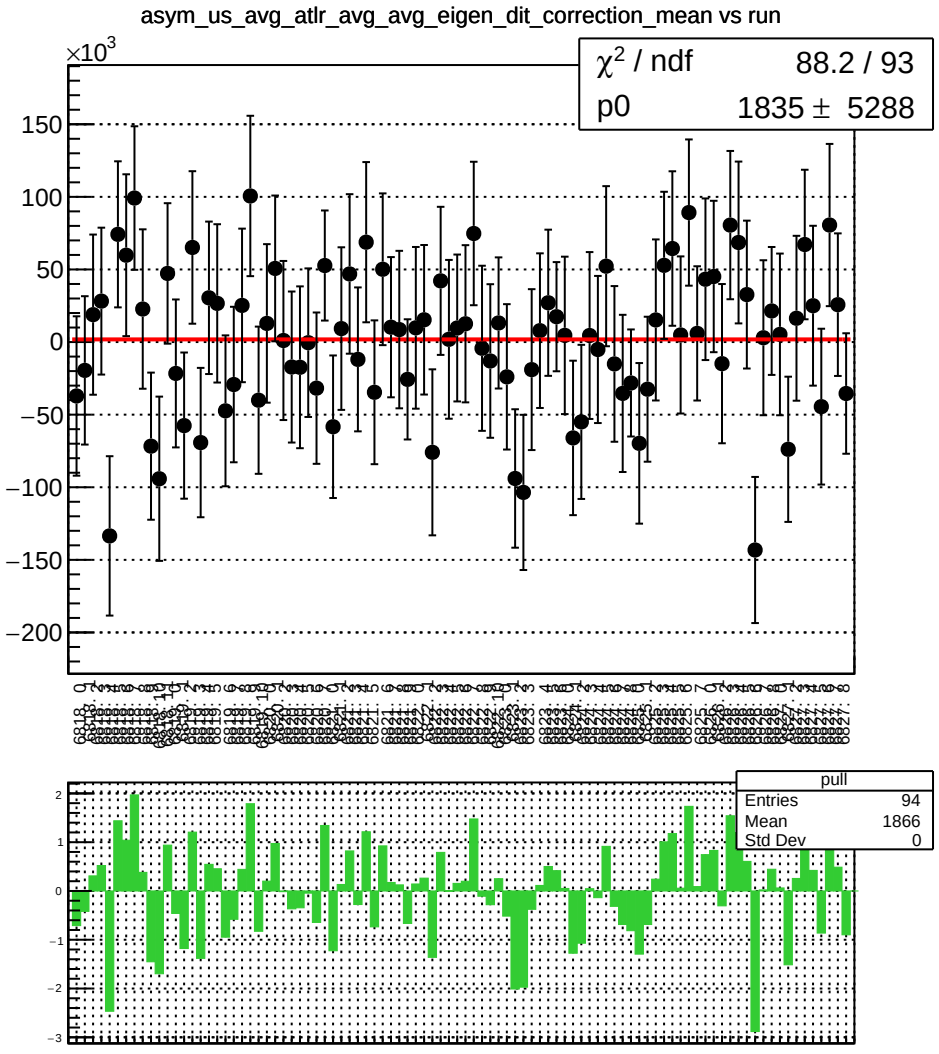

pull1D
Entries 94
Mean 0.0006278
Std Dev 0.9687
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

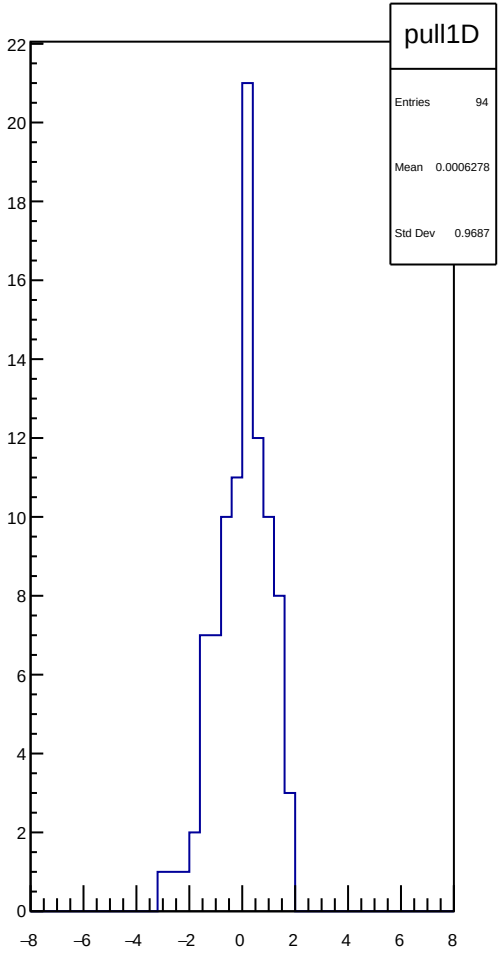

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4776 / 93
p0 5003 ± 3.739
6500
6000
5500
5000
4500

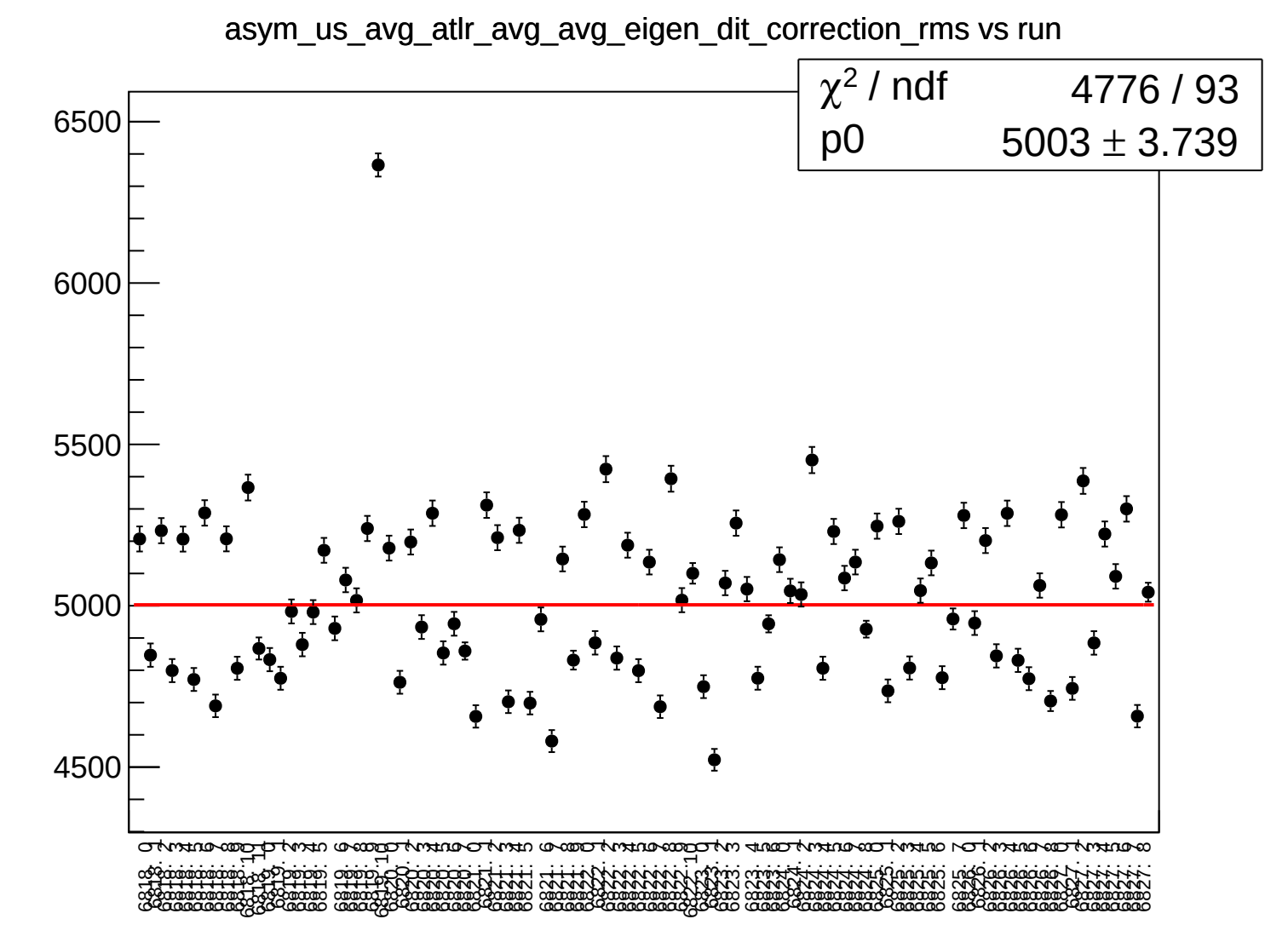

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 87.45 / 93
p0 −3072 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −691.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

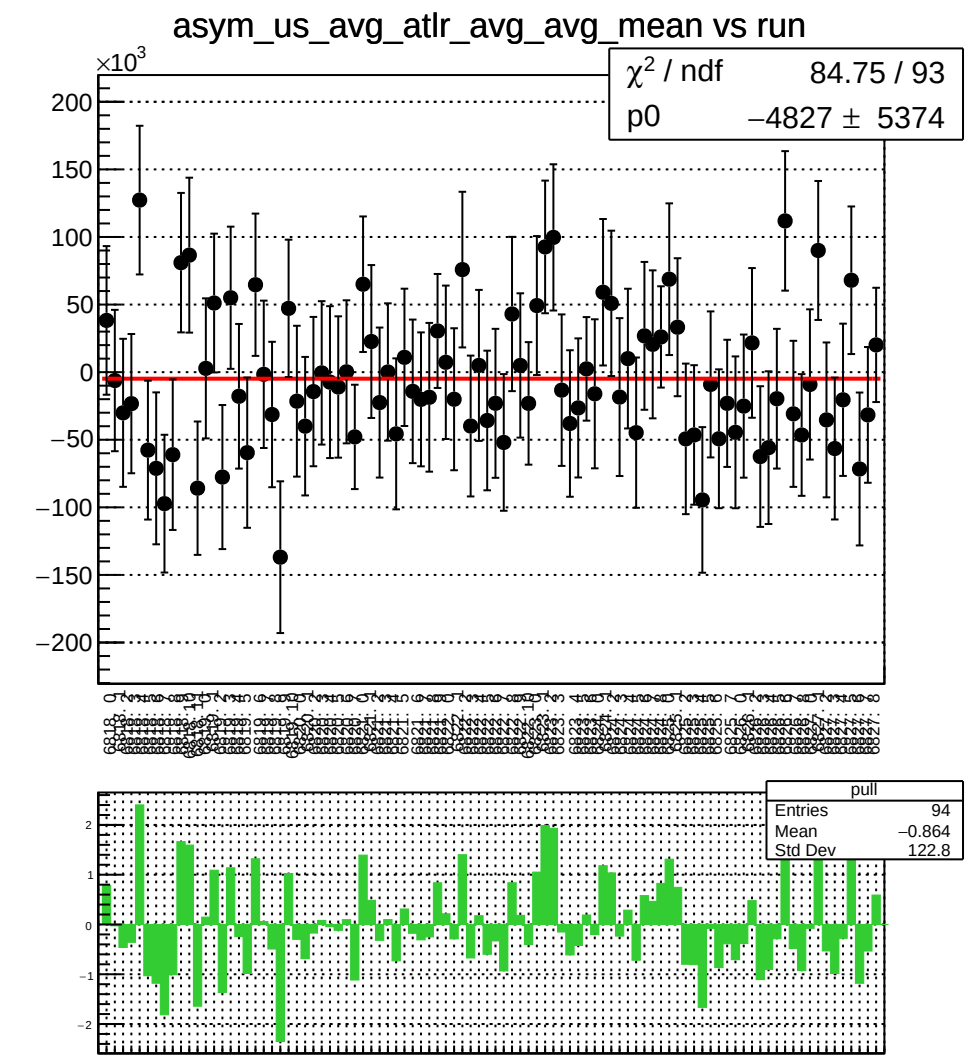

pull1D
Entries 94
Mean −0.004961
Std Dev 0.9645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

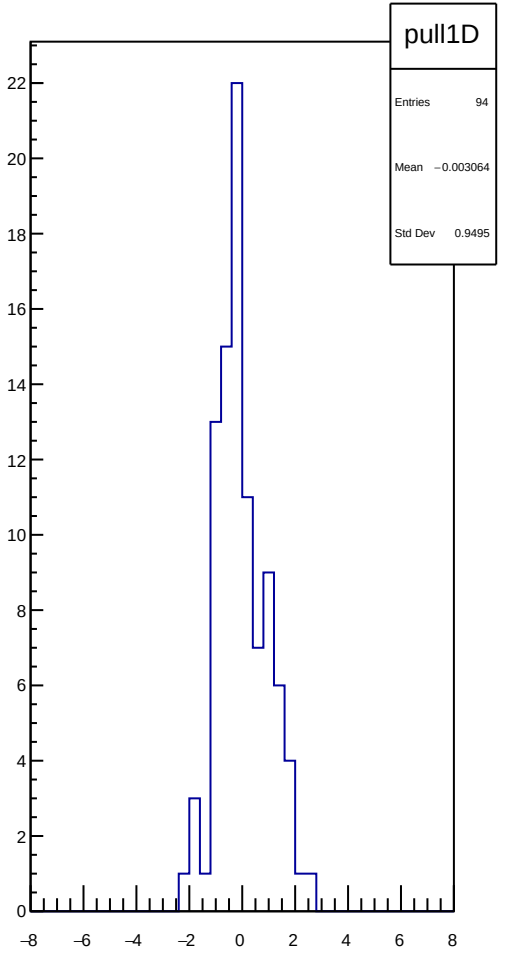

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 96.06 / 93
p0 1825 ± 1.362
1880
1860
1840
1820
1800
1780

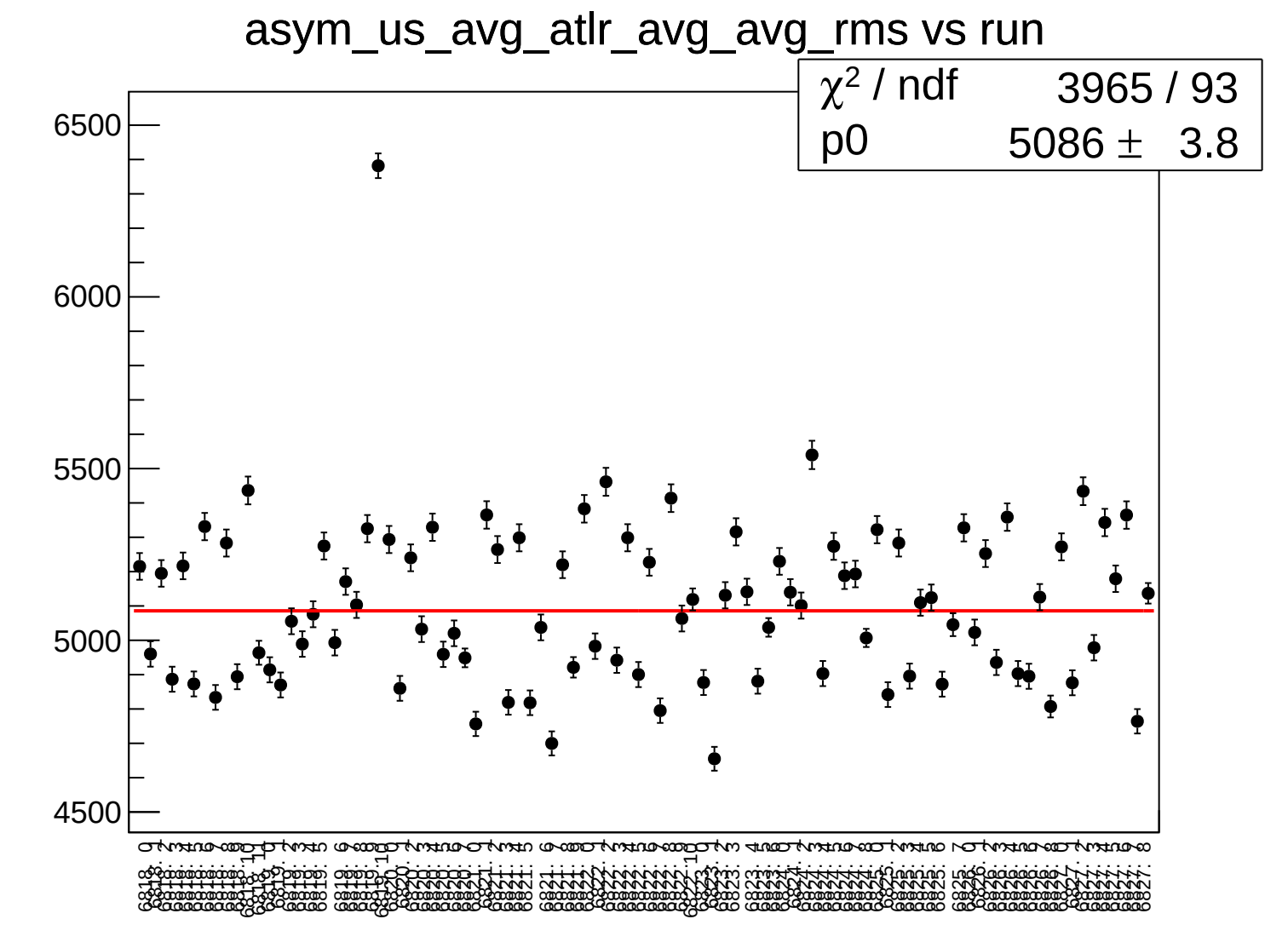

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.2 / 93
p0 1835 ± 5288
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean 1866
Std Dev 0
2
1
0
−1
−2
−3

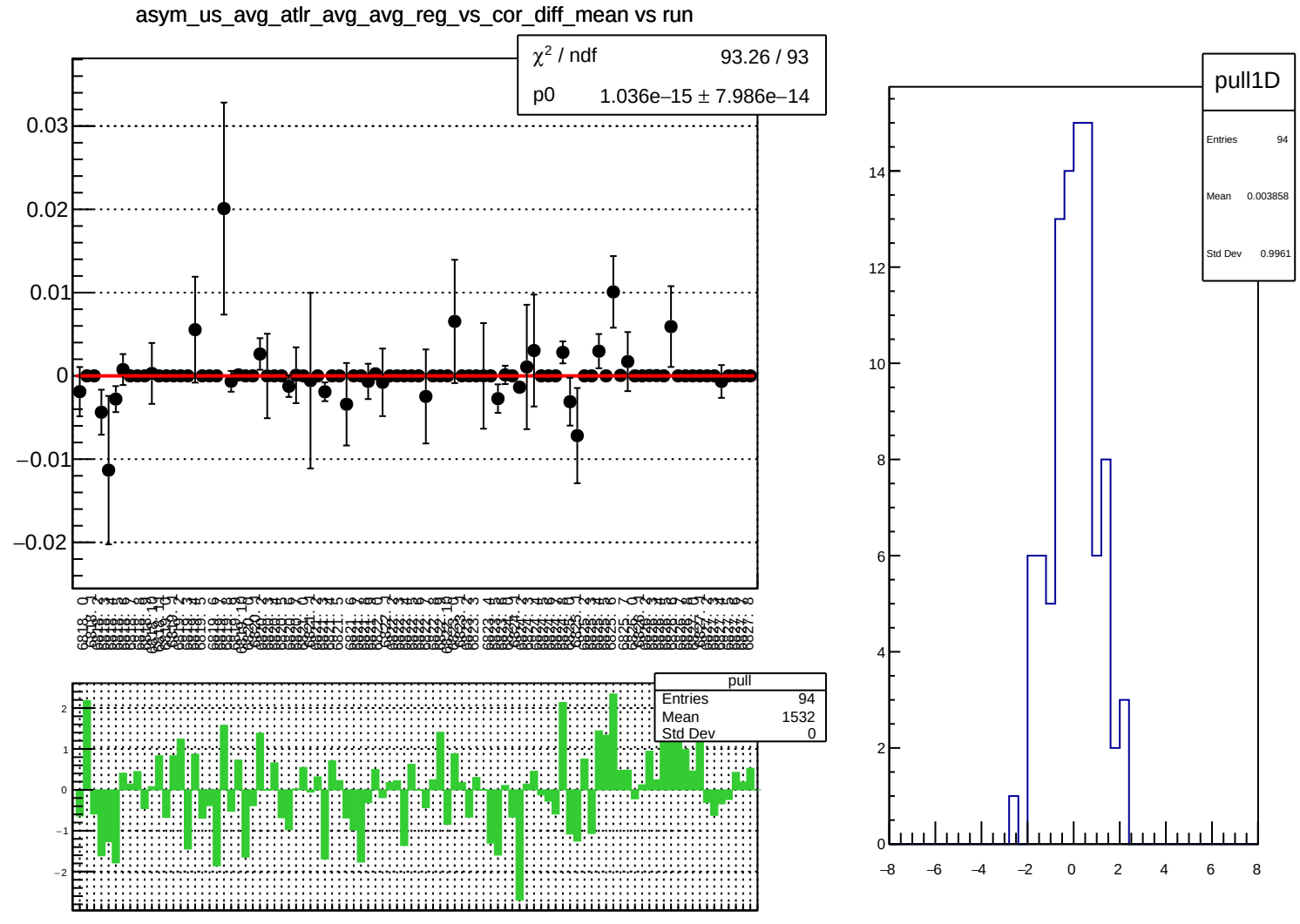

pull1D
Entries 94
Mean 0.0006278
Std Dev 0.9687
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

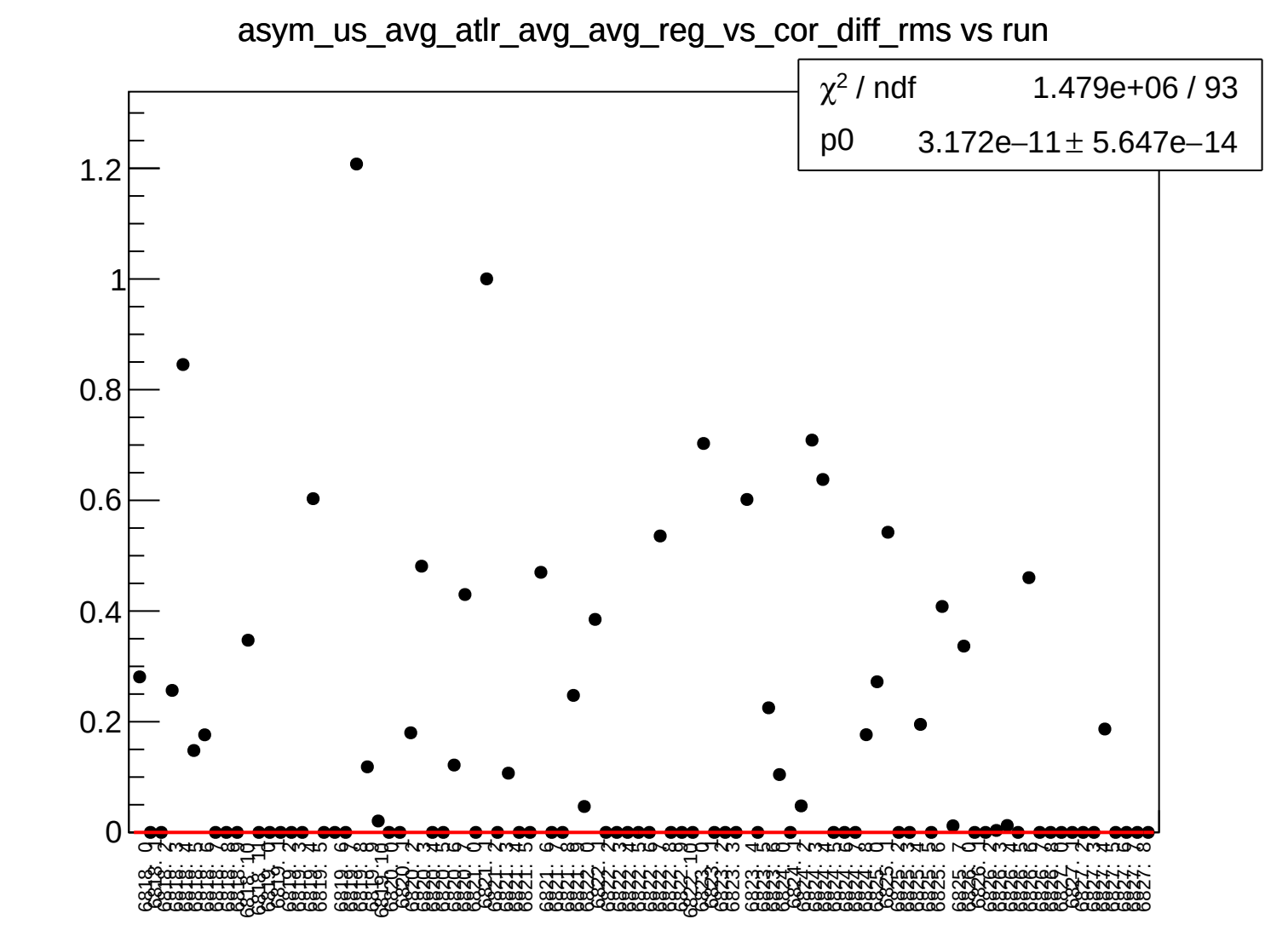

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4776 / 93
p0 5003 ± 3.739
6500
6000
5500
5000
4500

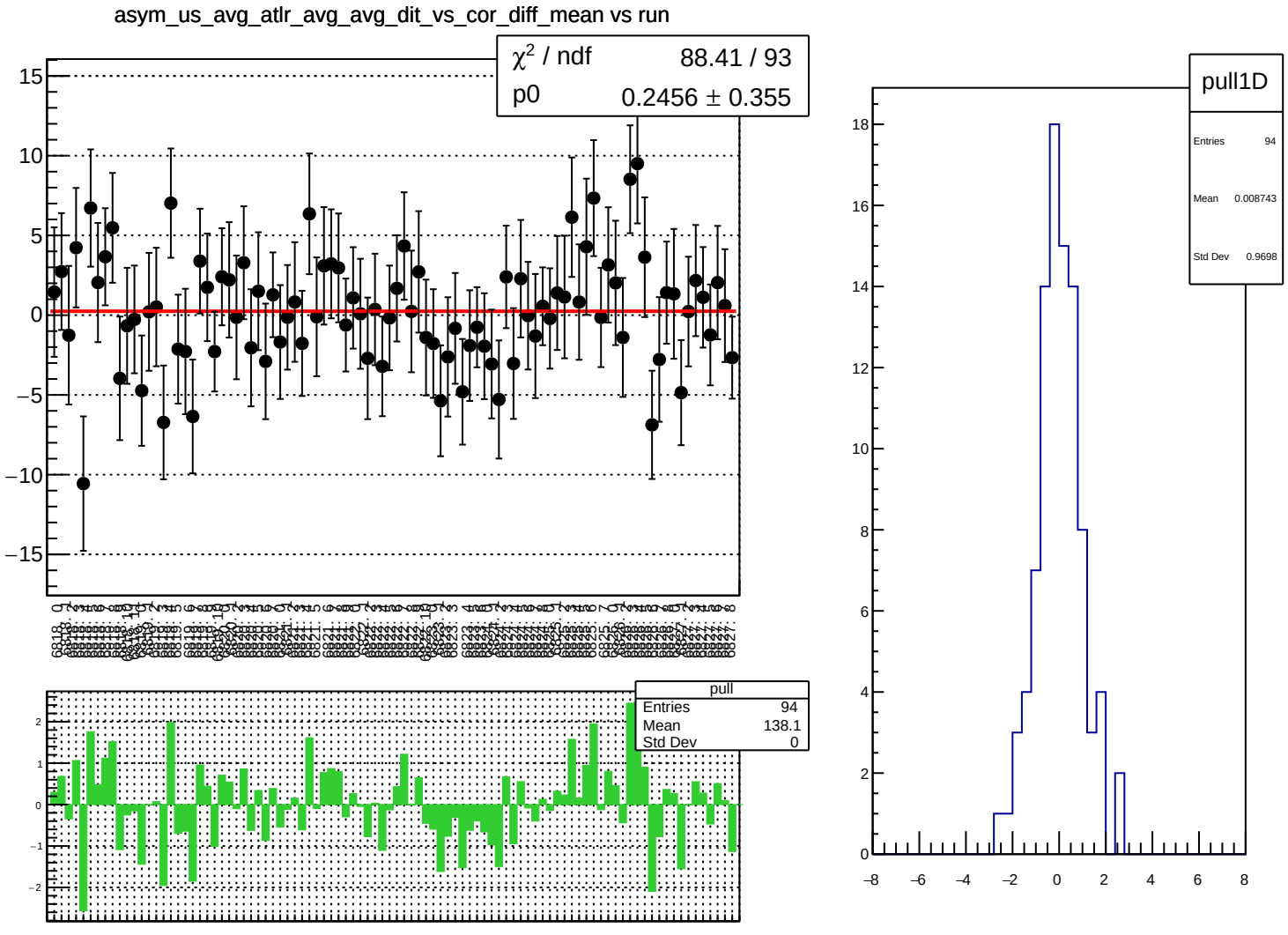

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 84.75 / 93
p0 −4827 ± 5374
pull
Entries 94
Mean −0.864
Std Dev 122.8

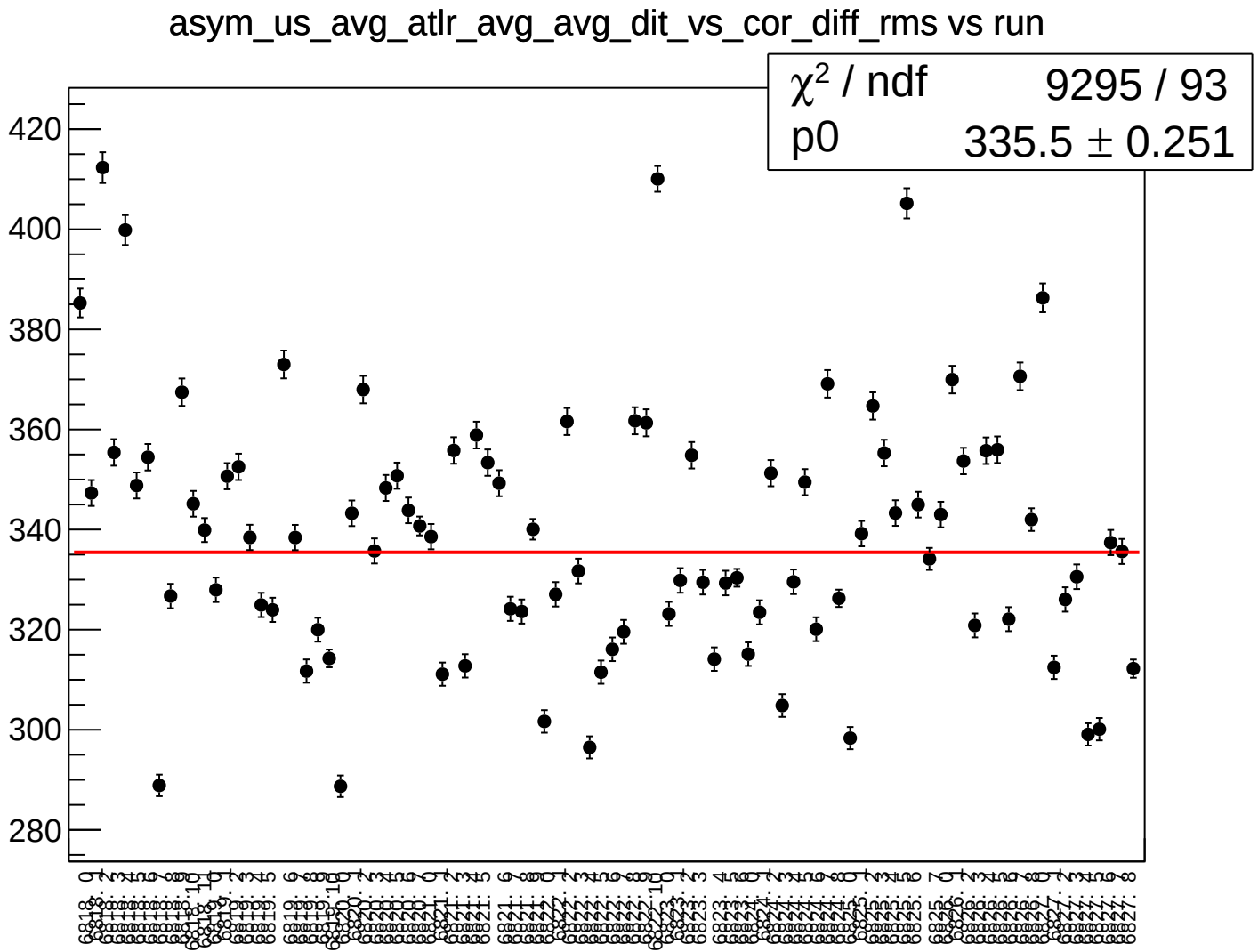

pull1D
Entries 94
Mean −0.003064
Std Dev 0.9495

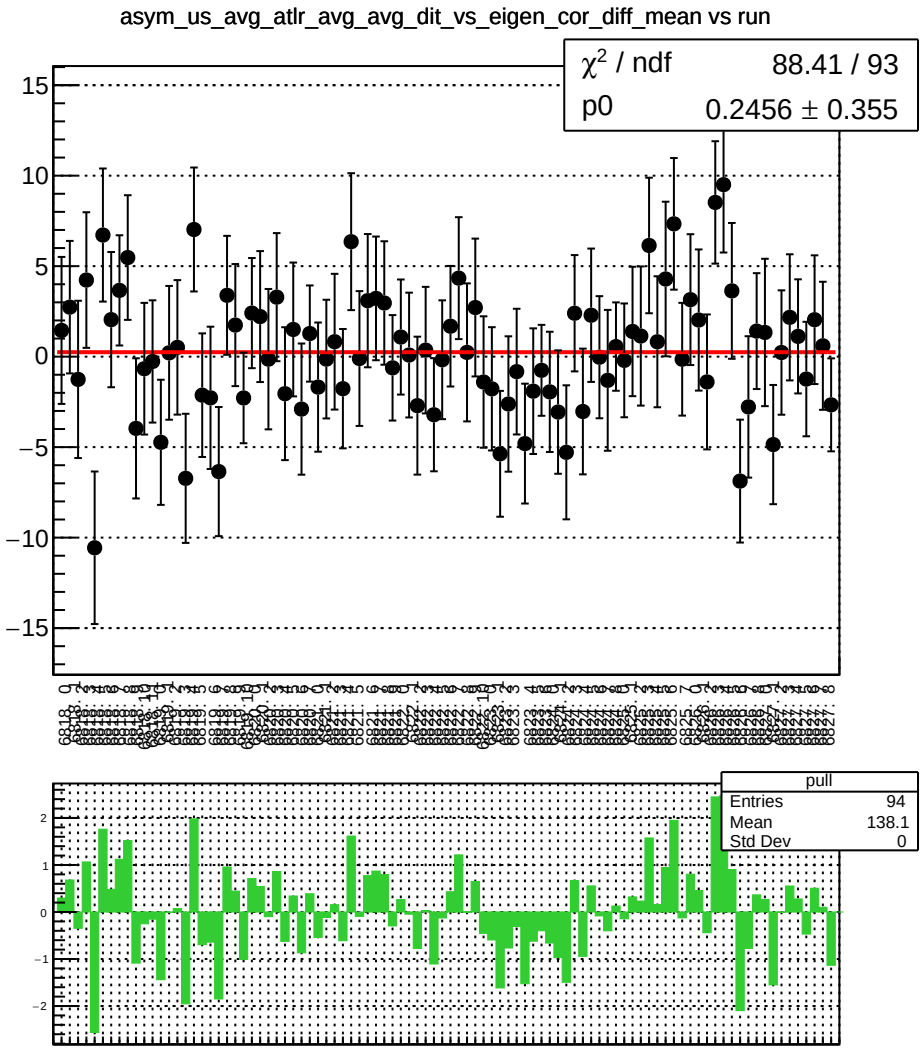

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3965 / 93
p0 5086 ± 3.8
6500
6000
5500
5000
4500

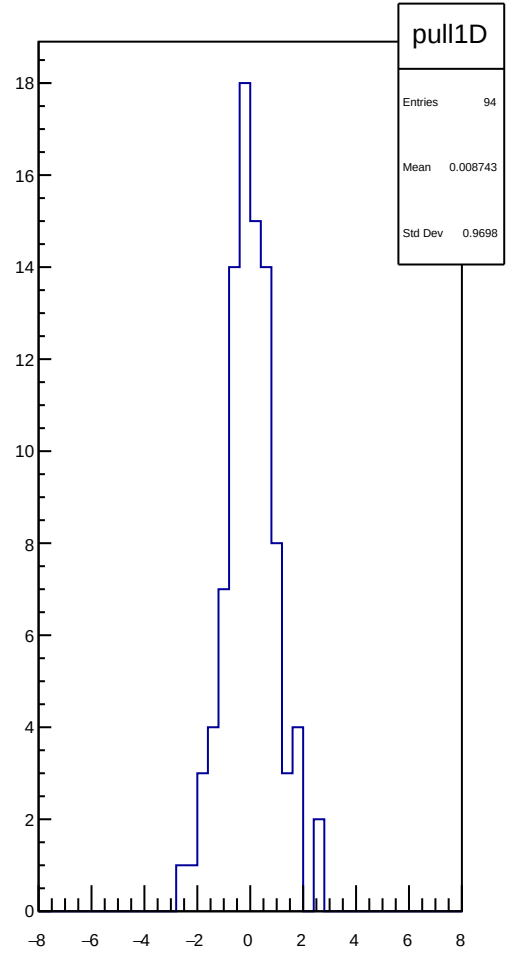

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 93.26 / 93
p0 1.036e−15 ± 7.986e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 1532
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003858
Std Dev 0.9961
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

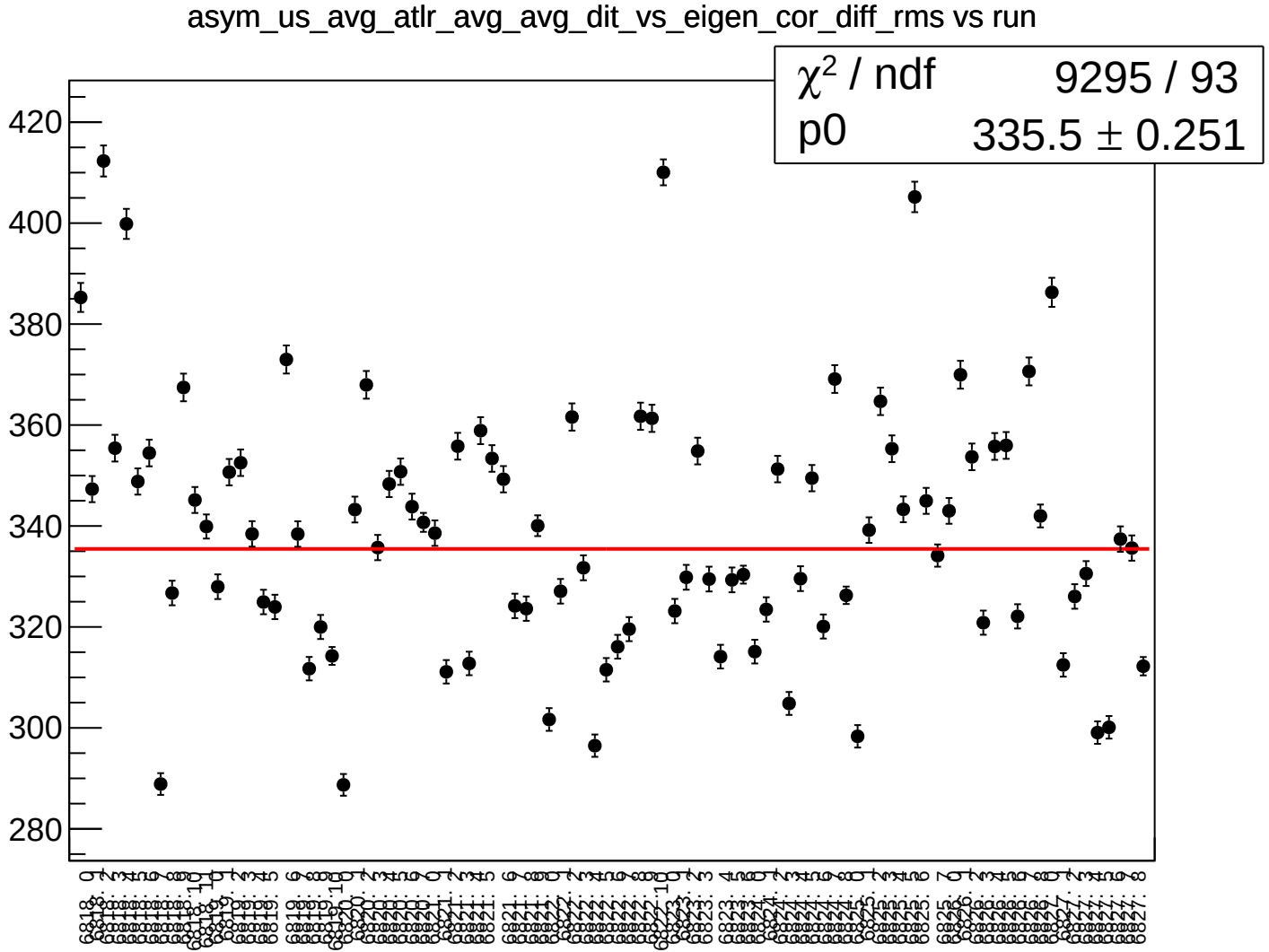

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.479e+06 / 93
p0 3.172e−11 ± 5.647e−14
1.2
1
0.8
0.6
0.4
0.2
0

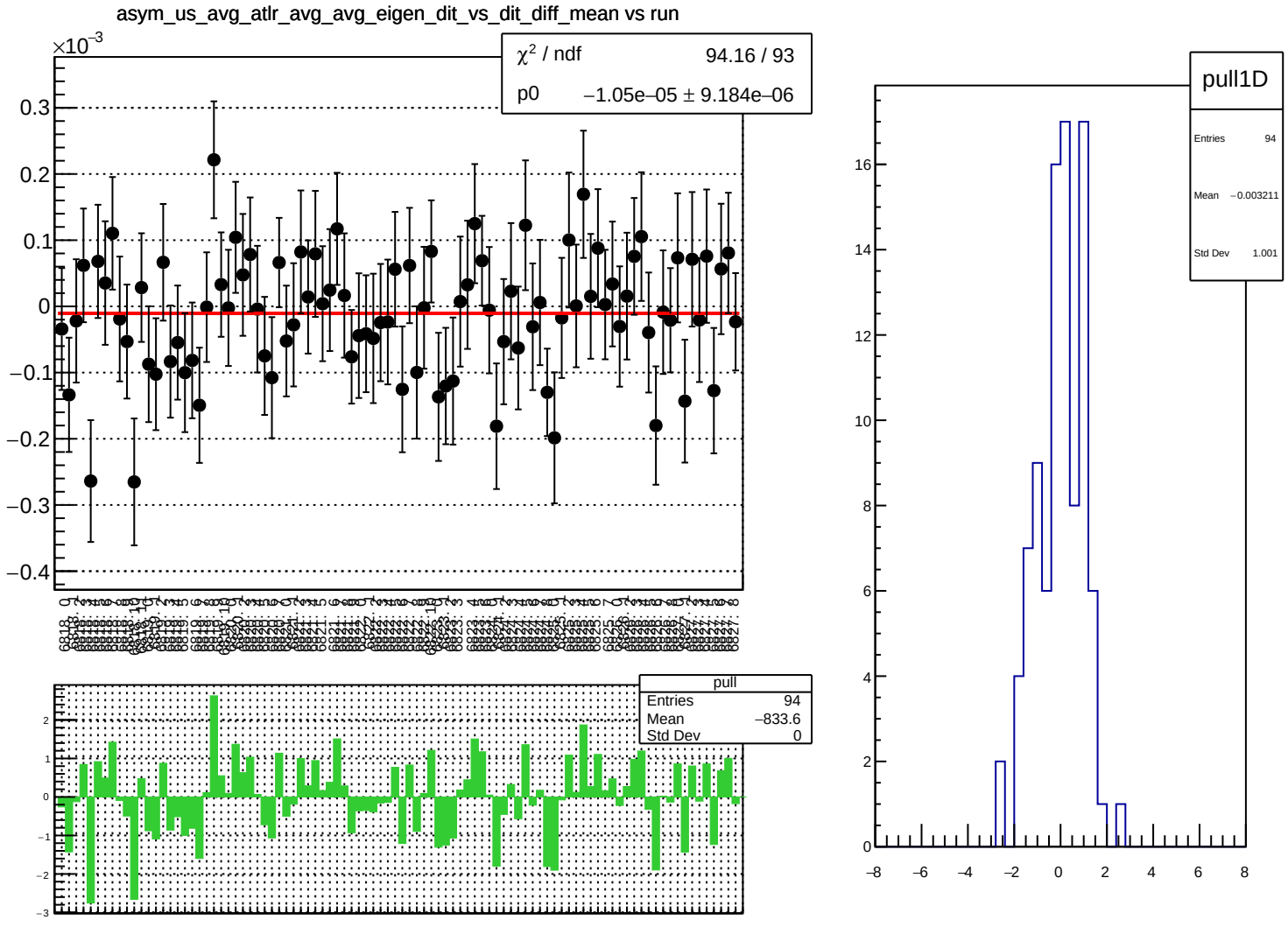

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.41 / 93
p0 0.2456 ± 0.355
pull
Entries 94
Mean 138.1
Std Dev 0
pull1D
Entries 94
Mean 0.008743
Std Dev 0.9698

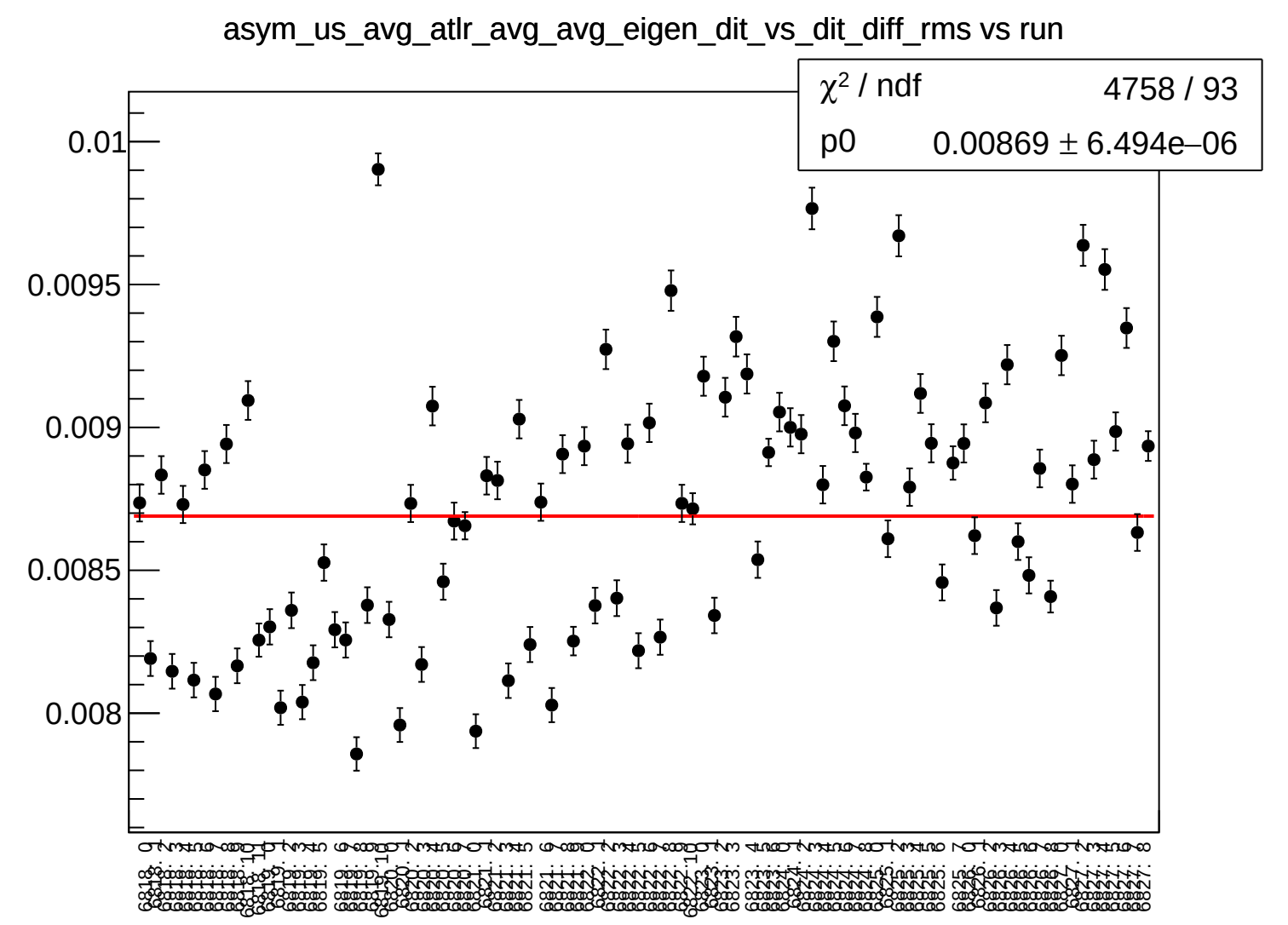

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9295 / 93
p0 335.5 ± 0.251
420
400
380
360
340
320
300
280

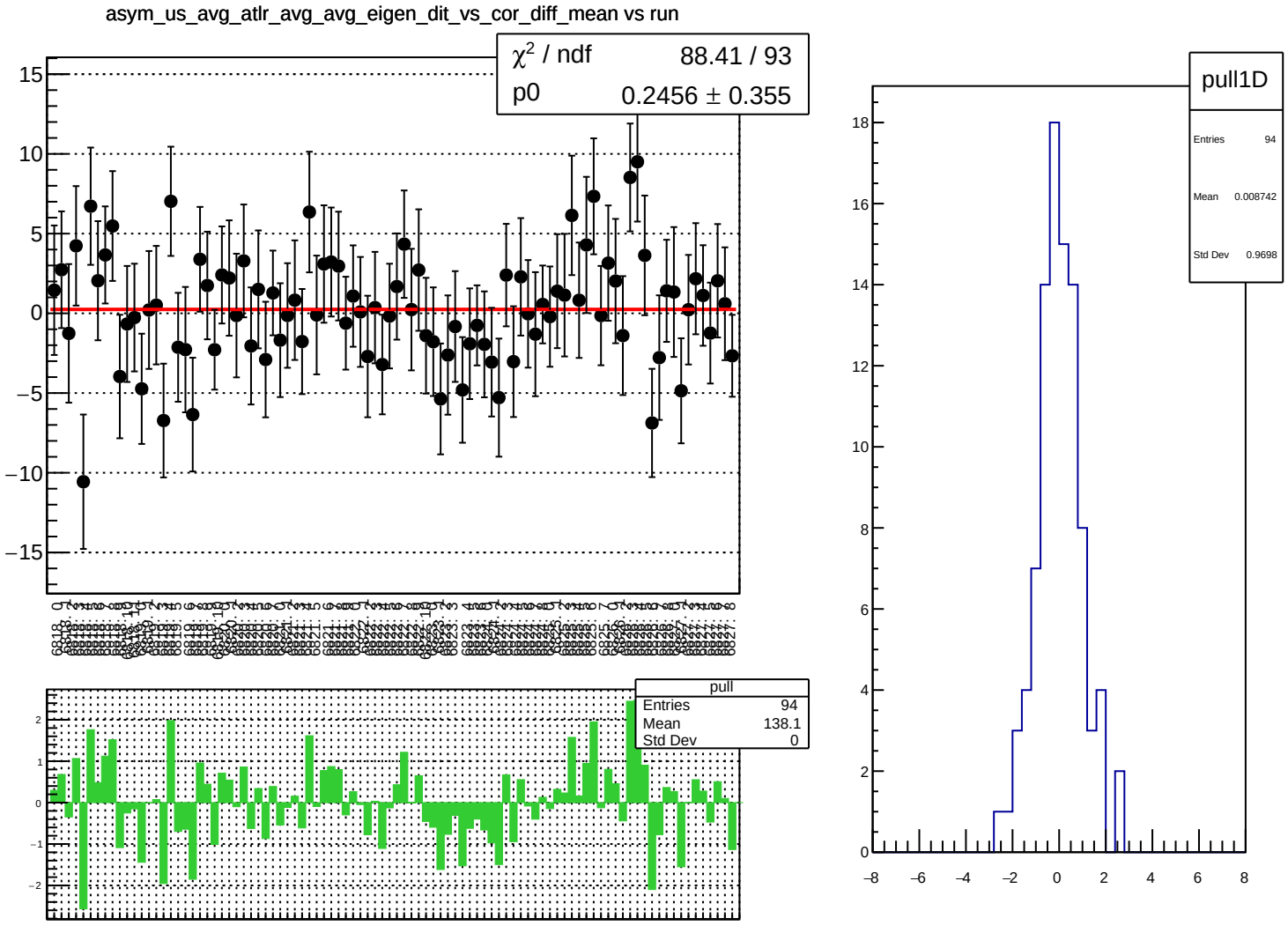

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.41 / 93
p0 0.2456 ± 0.355
pull
Entries 94
Mean 138.1
Std Dev 0

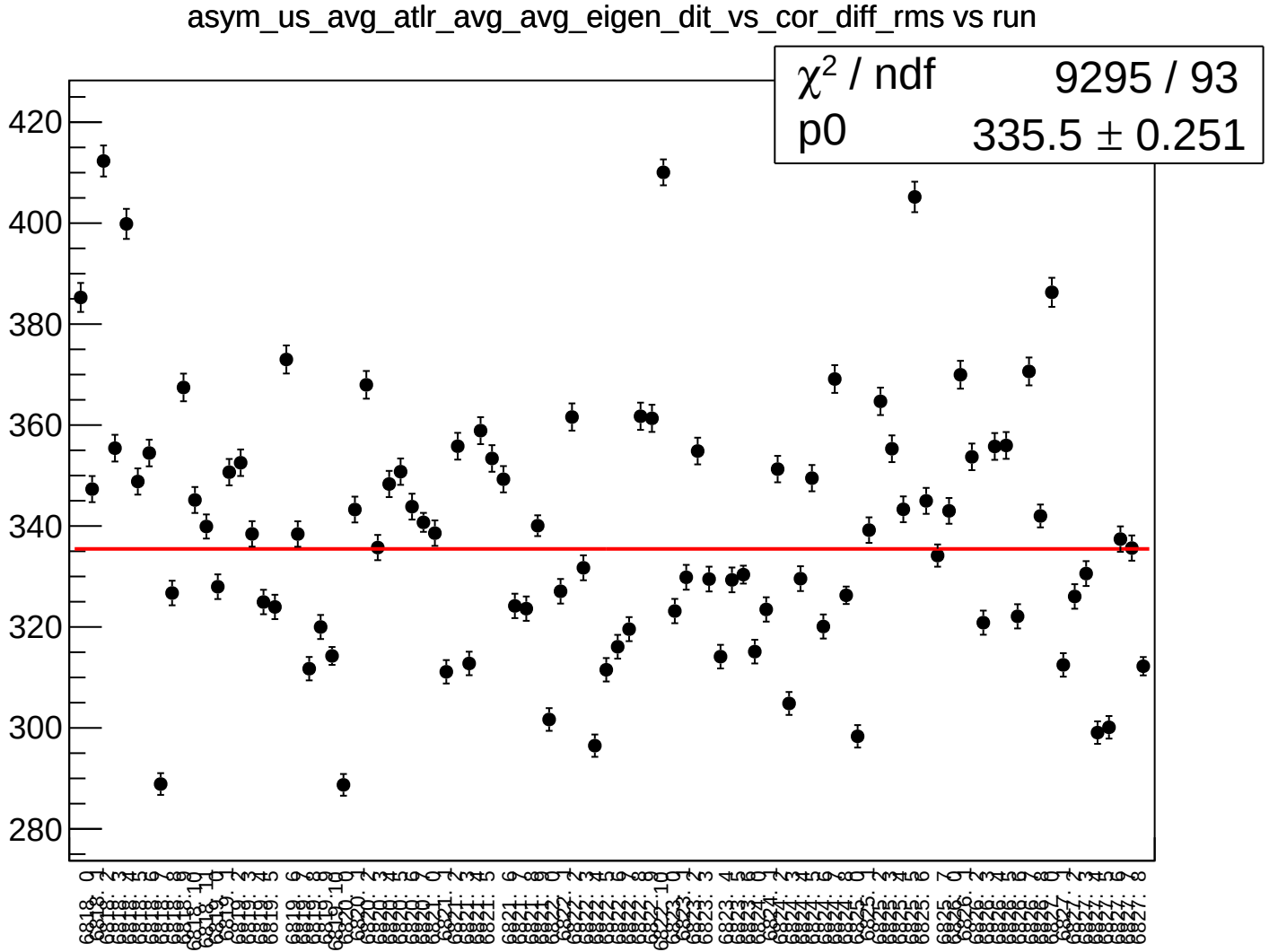

pull1D
Entries 94
Mean 0.008743
Std Dev 0.9698

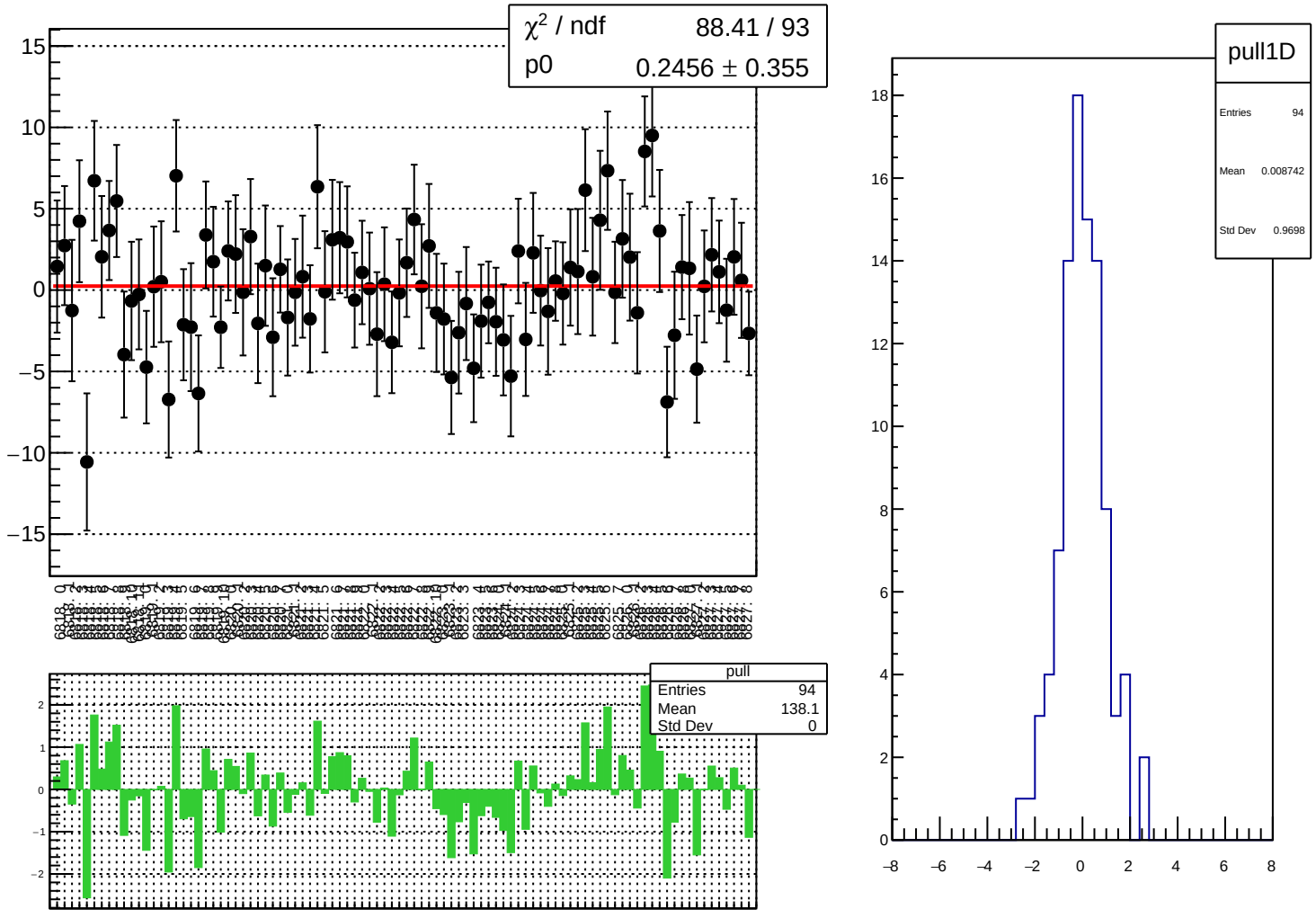

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9295 / 93
p0 335.5 ± 0.251
420
400
380
360
340
320
300
280

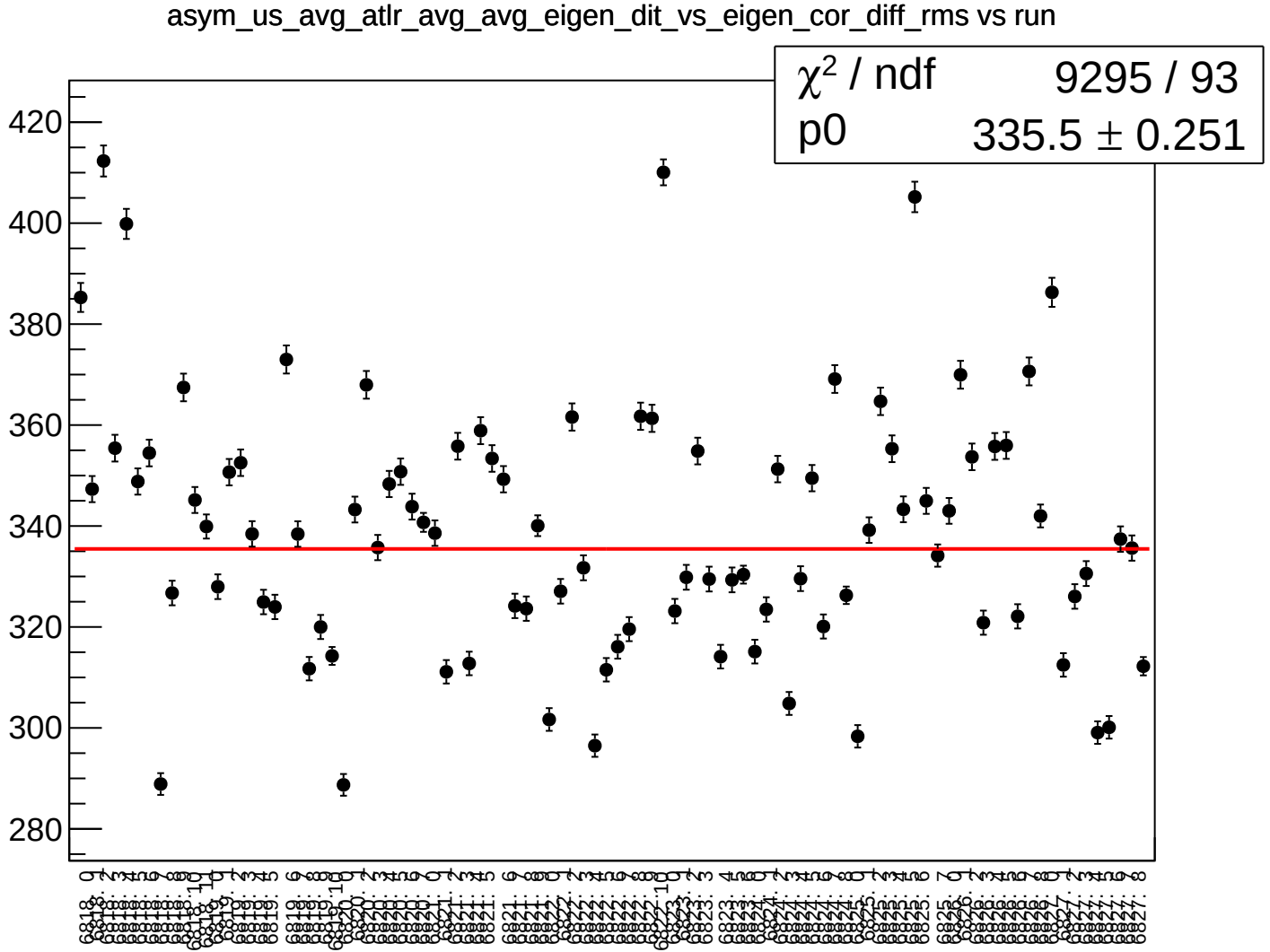

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.16 / 93
p0 −1.05e−05 ± 9.184e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean −833.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.003211
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

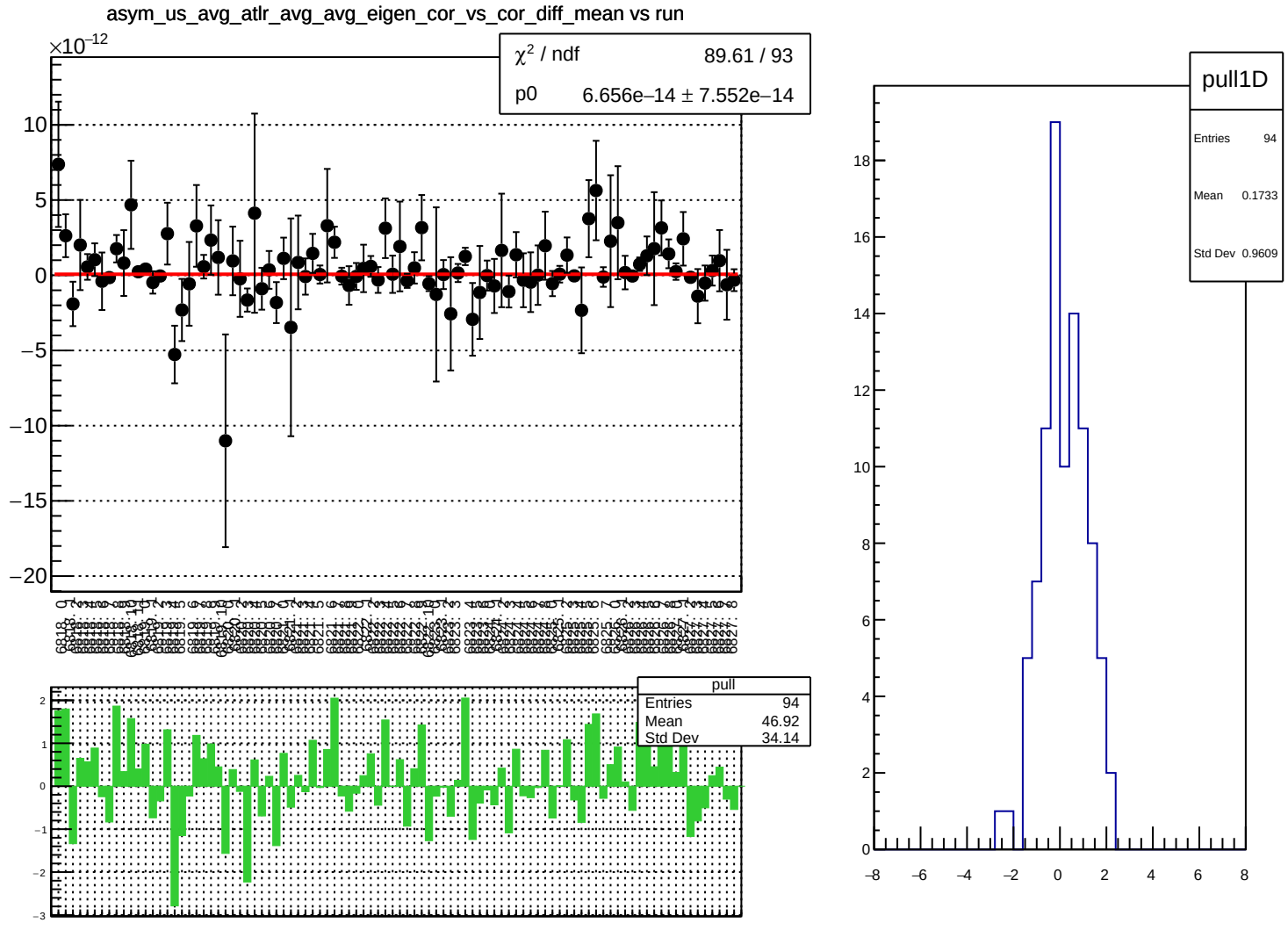

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4758 / 93
p0 0.00869 ± 6.494e–06
0.01
0.0095
0.009
0.0085
0.008

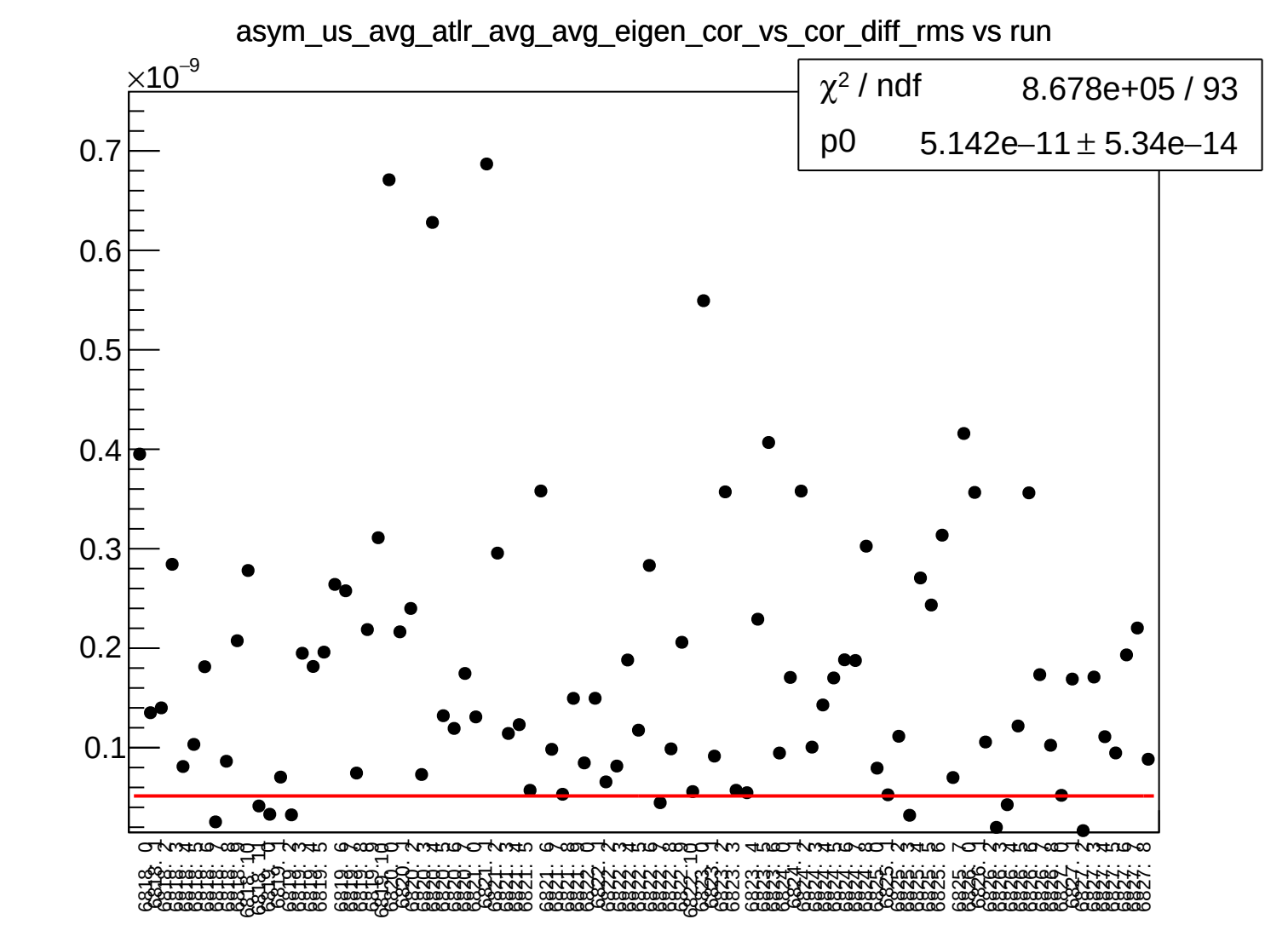

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.41 / 93
p0 0.2456 ± 0.355
pull
Entries 94
Mean 138.1
Std Dev 0
pull1D
Entries 94
Mean 0.008742
Std Dev 0.9698

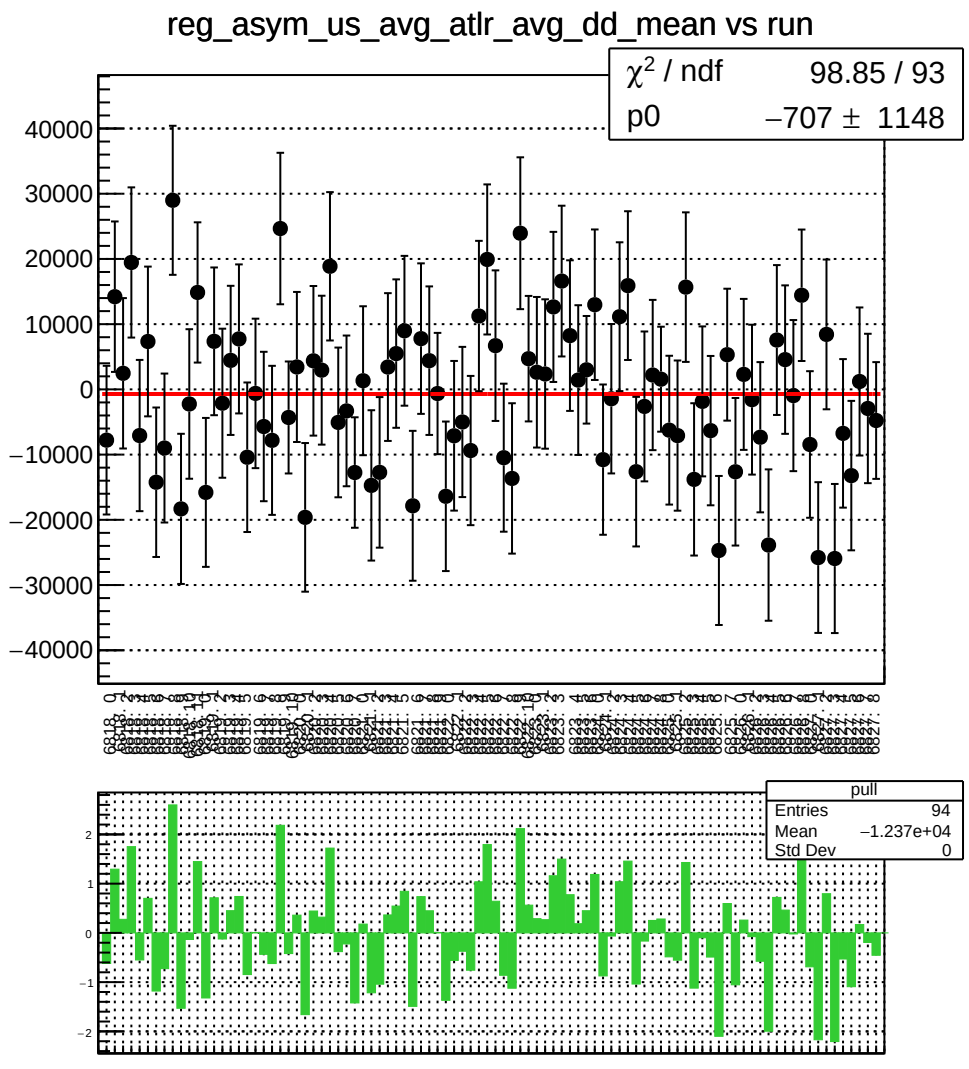

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9295 / 93
p0 335.5 ± 0.251
420
400
380
360
340
320
300
280

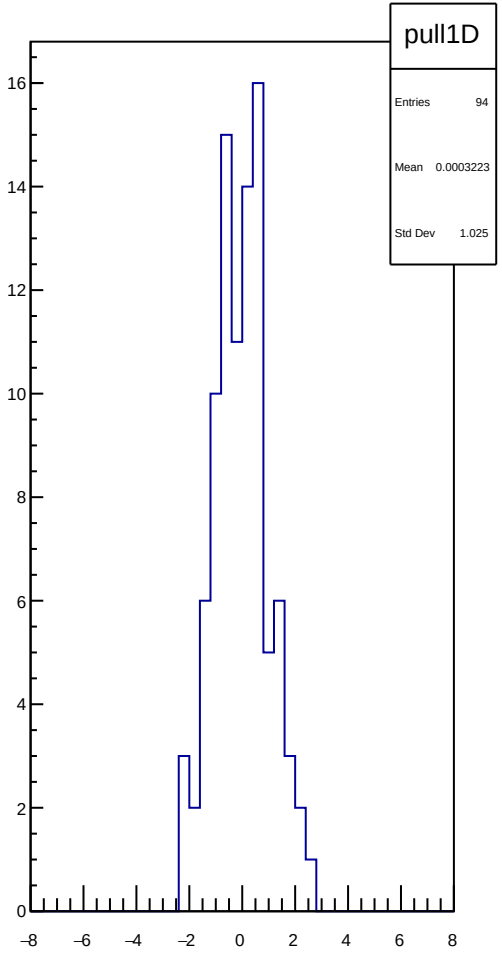

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.41 / 93
p0 0.2456 ± 0.355
pull
Entries 94
Mean 138.1
Std Dev 0
pull1D
Entries 94
Mean 0.008742
Std Dev 0.9698

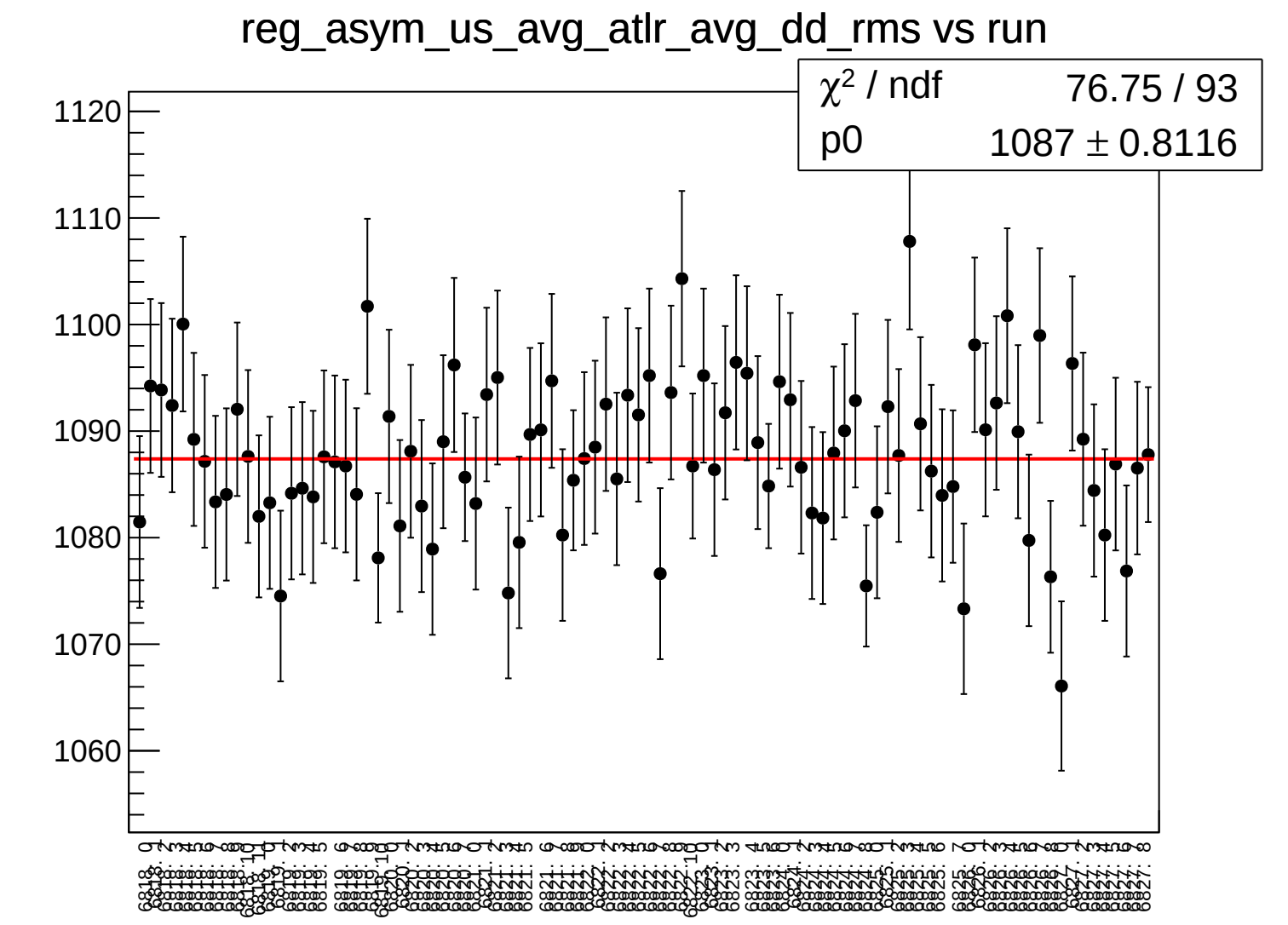

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9295 / 93
p0 335.5 ± 0.251
420
400
380
360
340
320
300
280

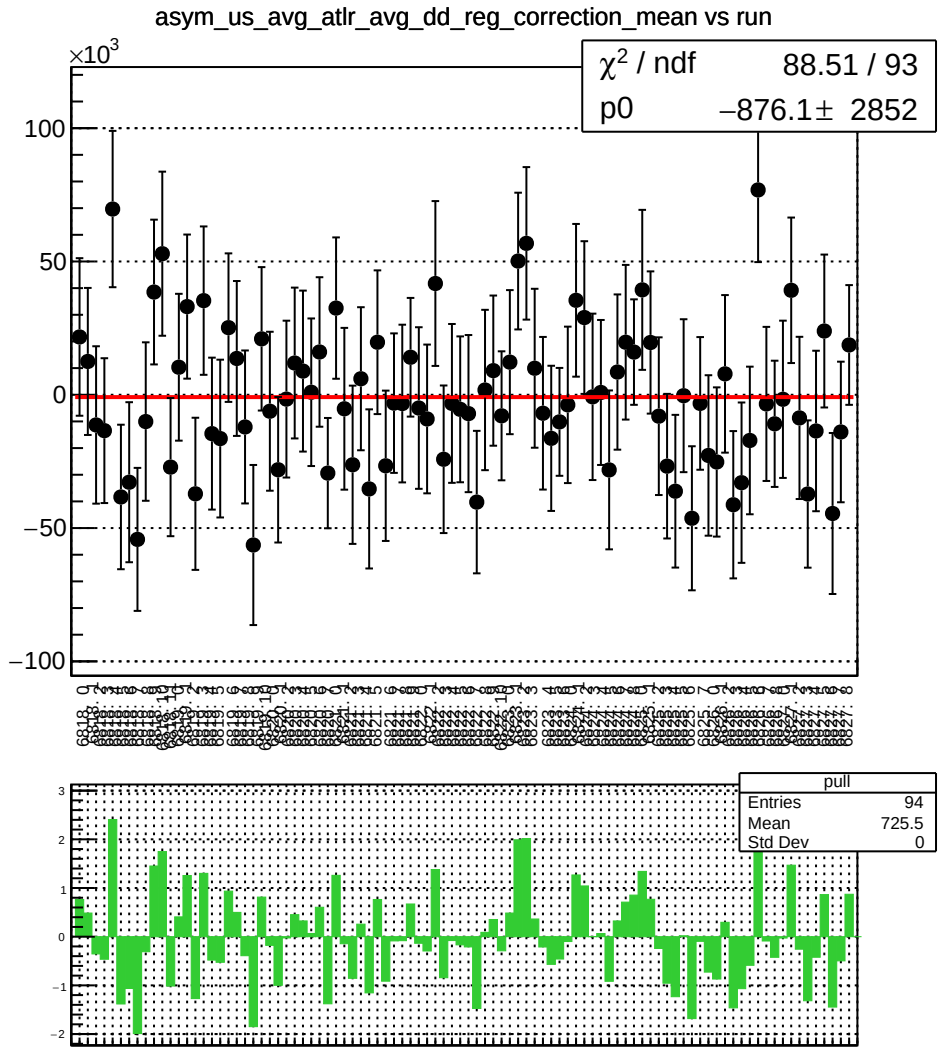

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.61 / 93
p0 6.656e−14 ± 7.552e−14
pull
Entries 94
Mean 46.92
Std Dev 34.14
pull1D
Entries 94
Mean 0.1733
Std Dev 0.9609

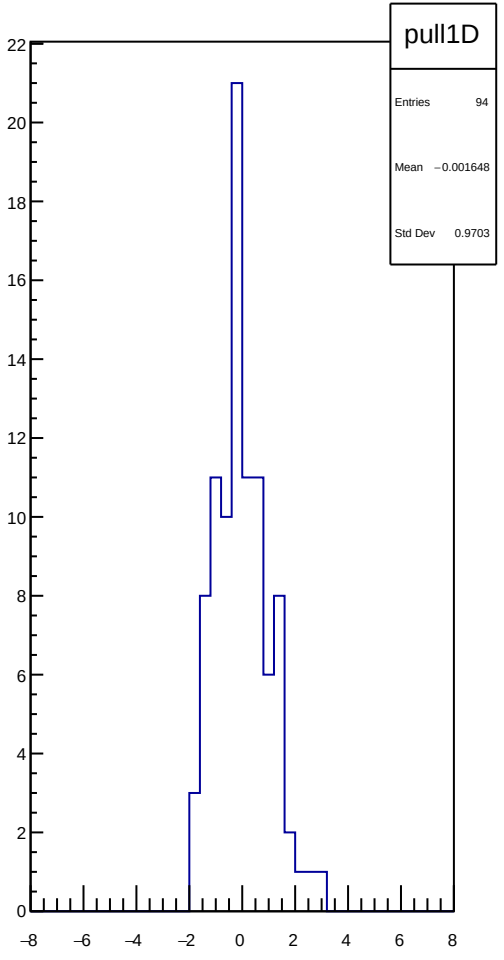

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.678e+05 / 93
p0 5.142e−11 ± 5.34e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

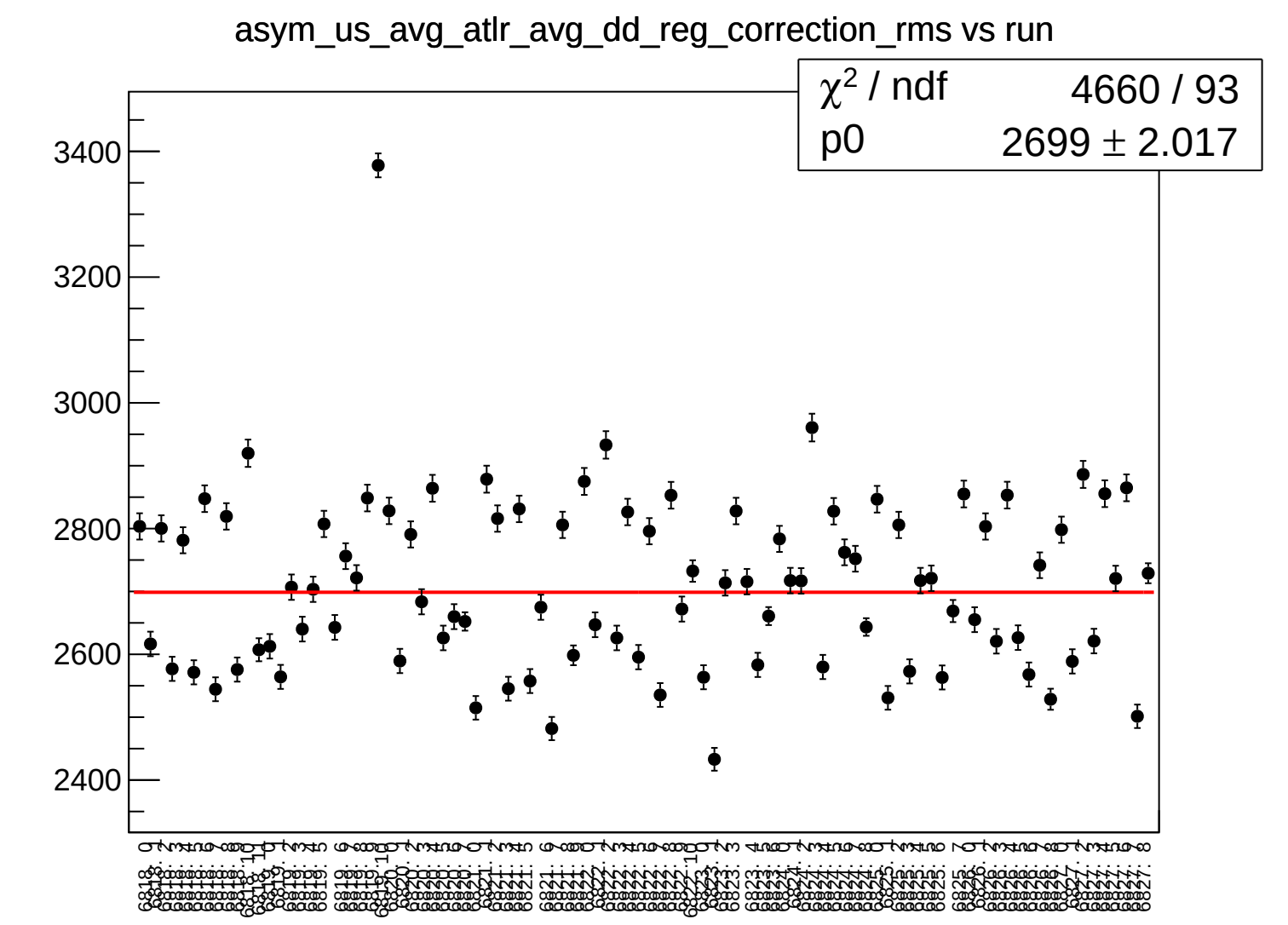

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.85 / 93
p0 −707 ± 1148
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −1.237e+04
Std Dev 0
2
1
0
−1
−2

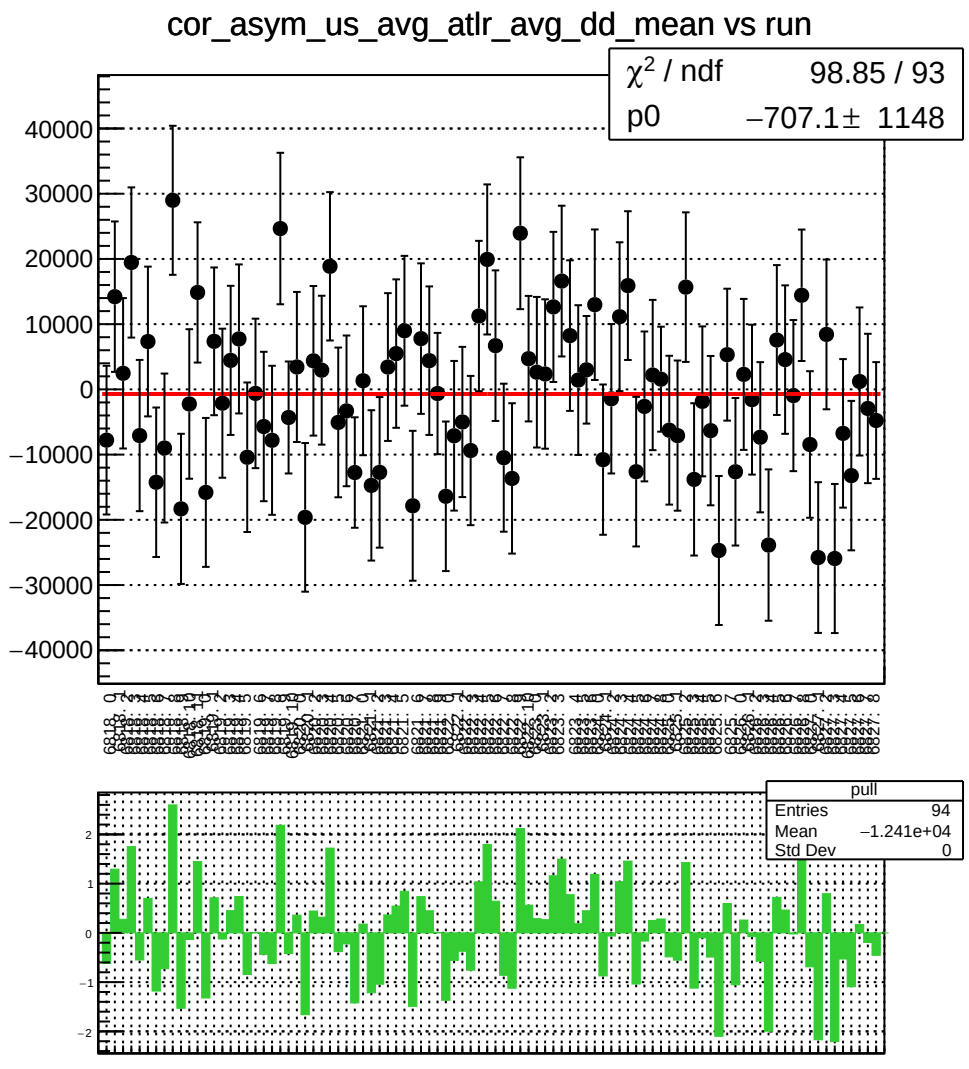

pull1D
Entries 94
Mean 0.0003223
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

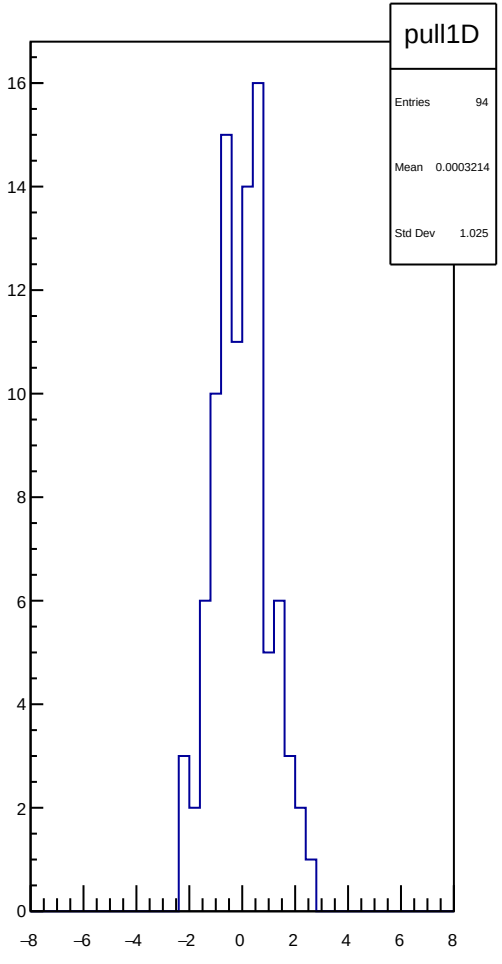

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 76.75 / 93
p0 1087 ± 0.8116
1120
1110
1100
1090
1080
1070
1060

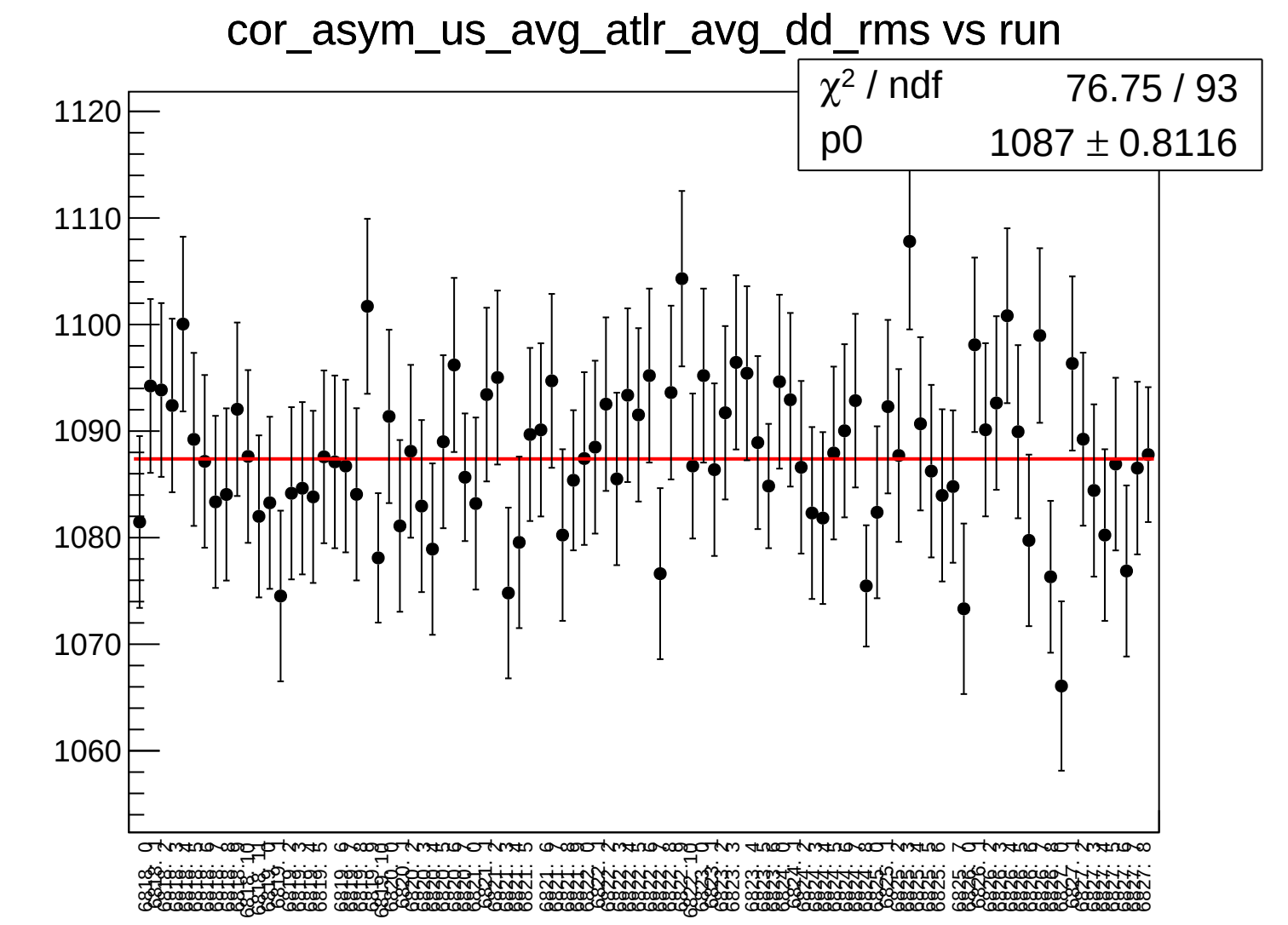

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.51 / 93
p0 −876.1± 2852
100
50
0
−50
−100
pull
Entries 94
Mean 725.5
Std Dev 0
3
2
1
0
−1
−2

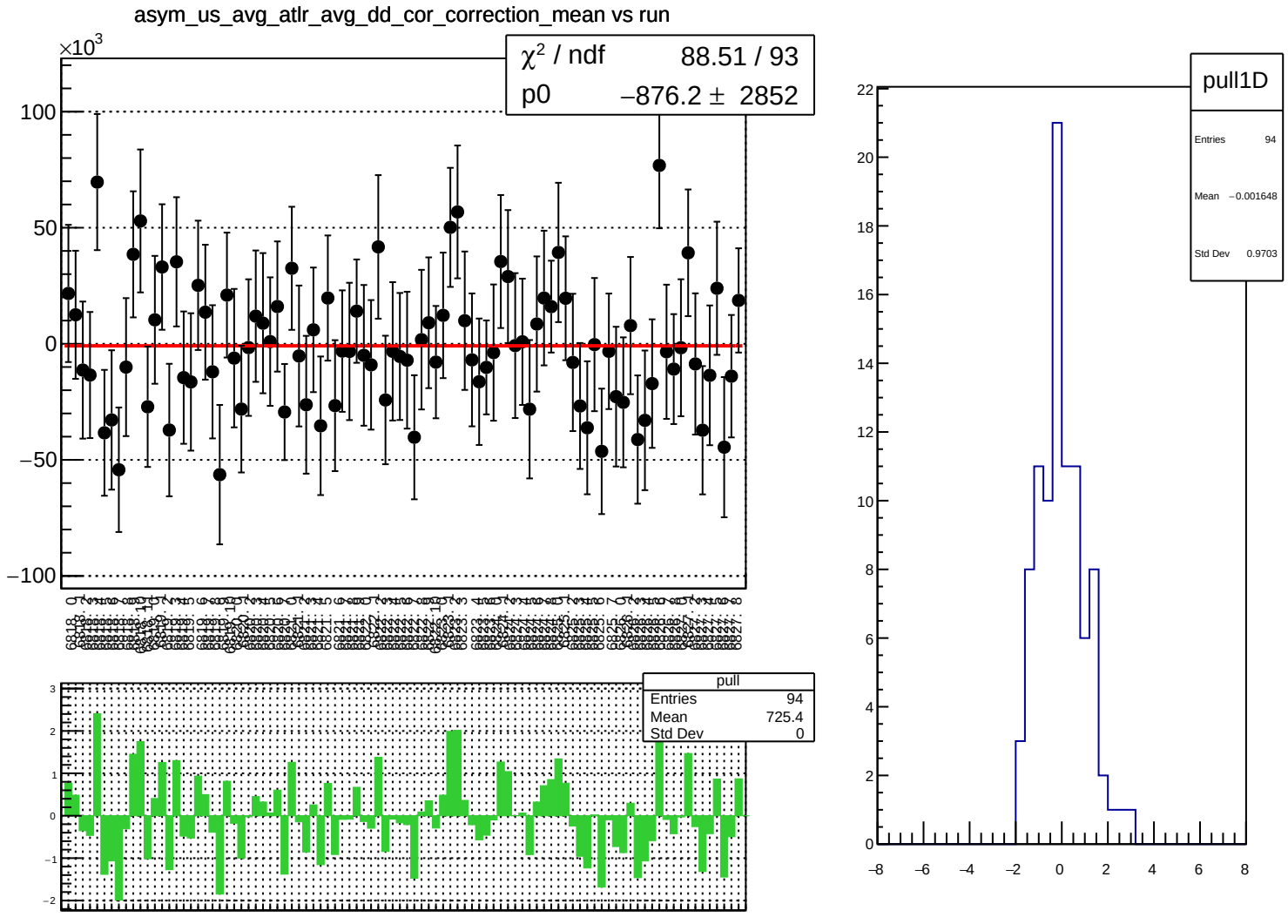

pull1D
Entries 94
Mean −0.001648
Std Dev 0.9703
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

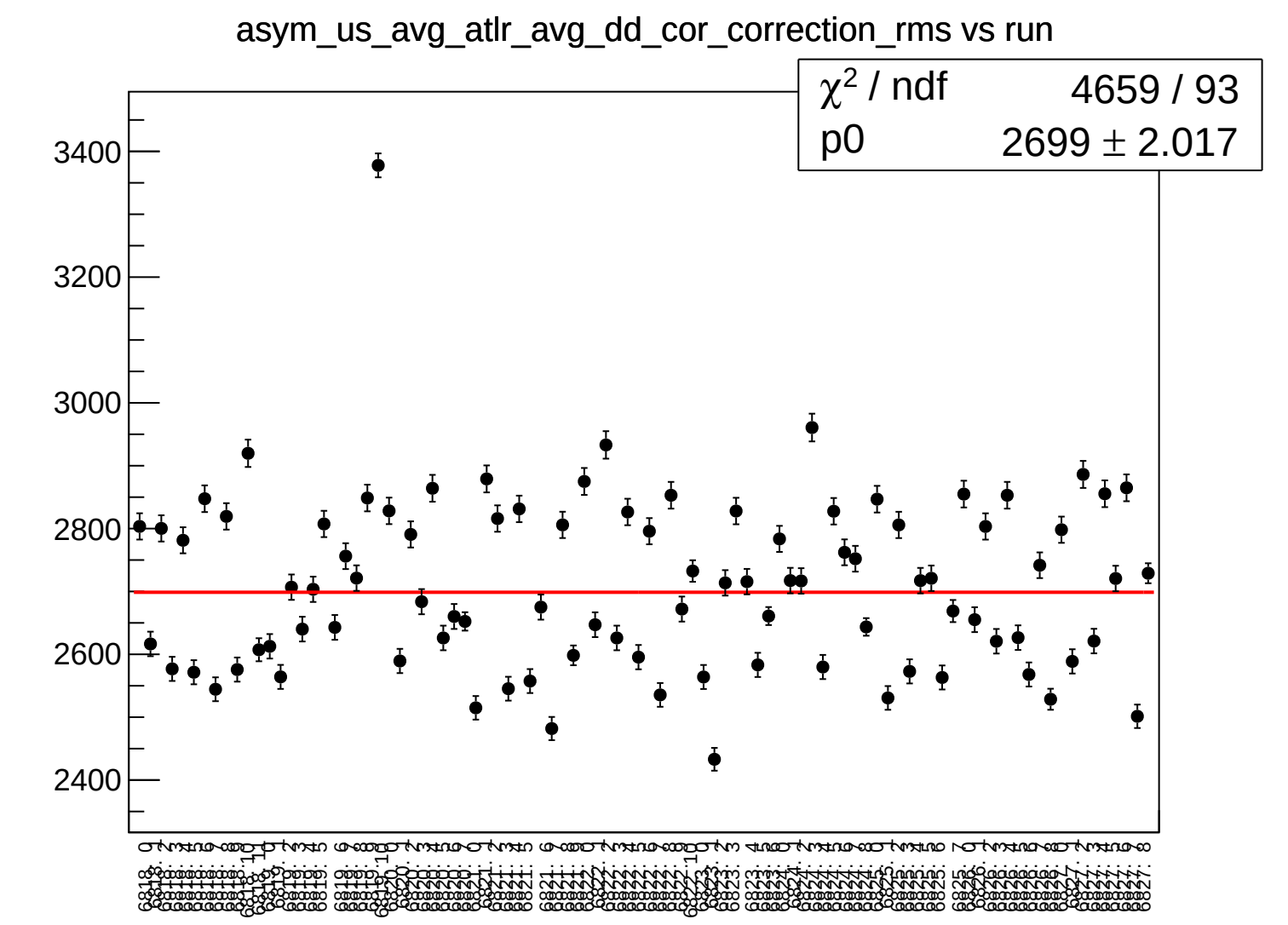

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4660 / 93
p0 2699 ± 2.017
3400
3200
3000
2800
2600
2400

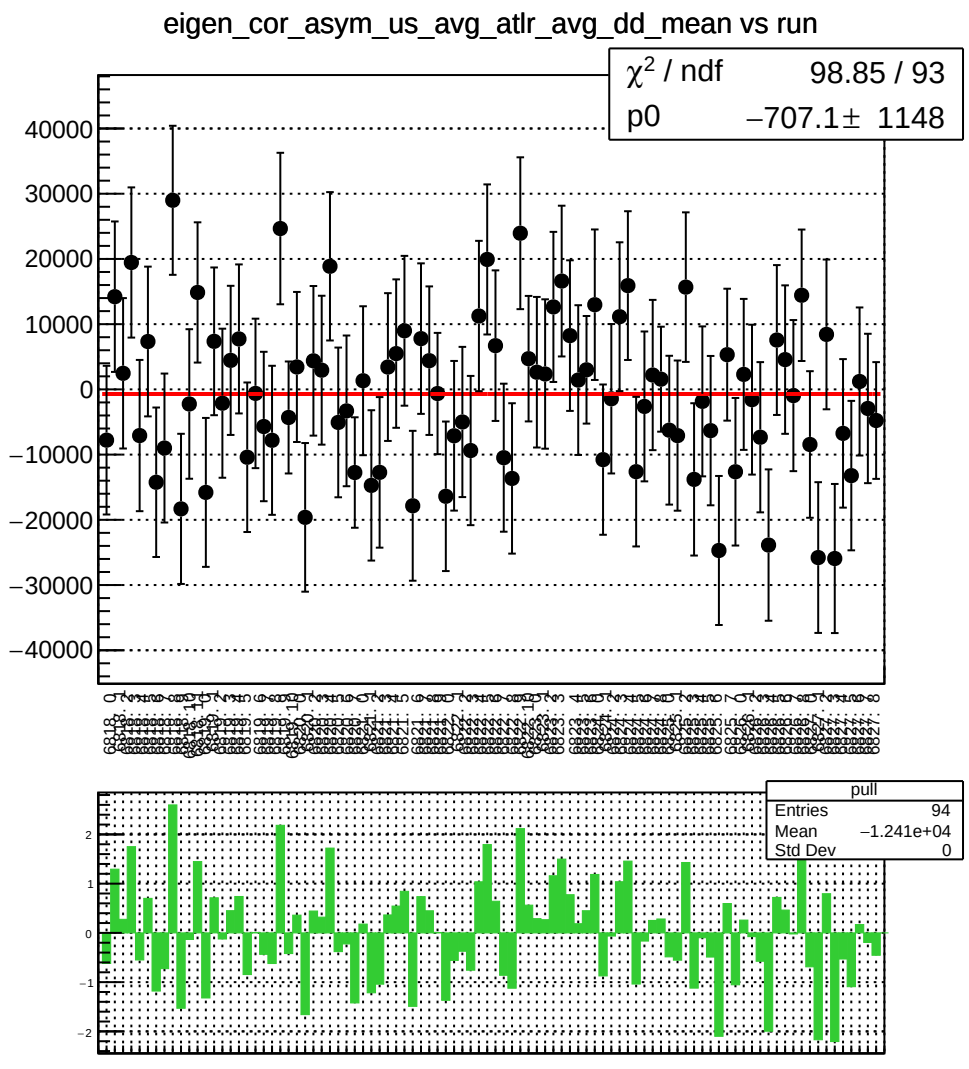

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.85 / 93
p0 −707.1± 1148
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −1.241e+04
Std Dev 0
2
1
0
−1
−2

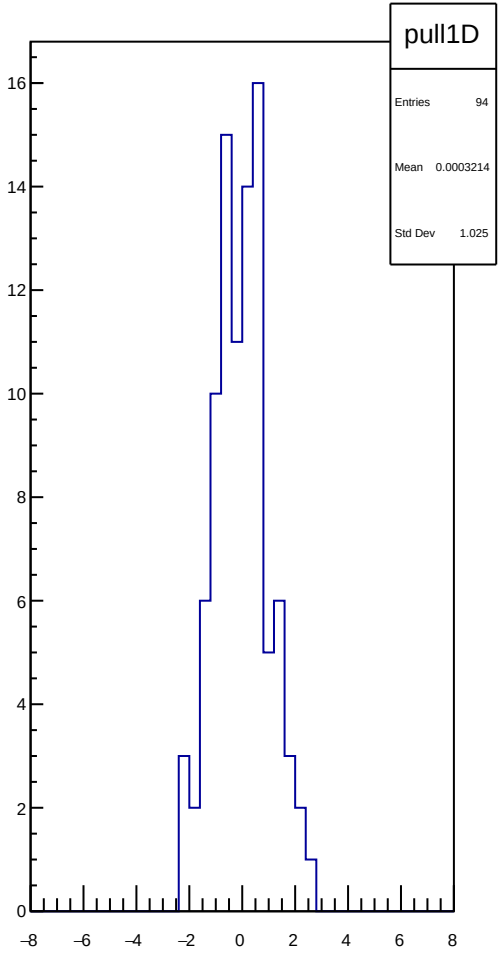

pull1D
Entries 94
Mean 0.0003214
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

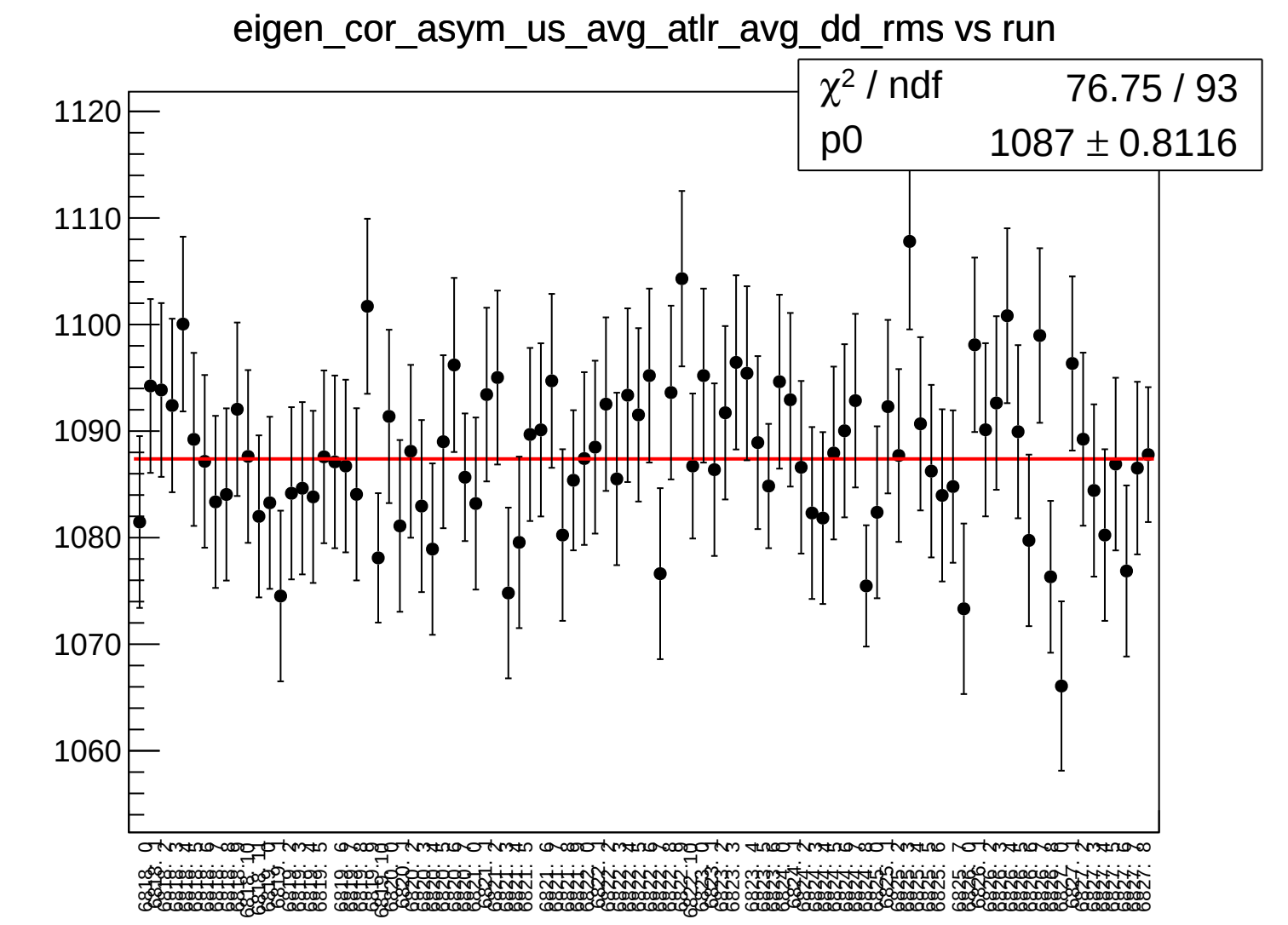

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 76.75 / 93
p0 1087 ± 0.8116
1120
1110
1100
1090
1080
1070
1060

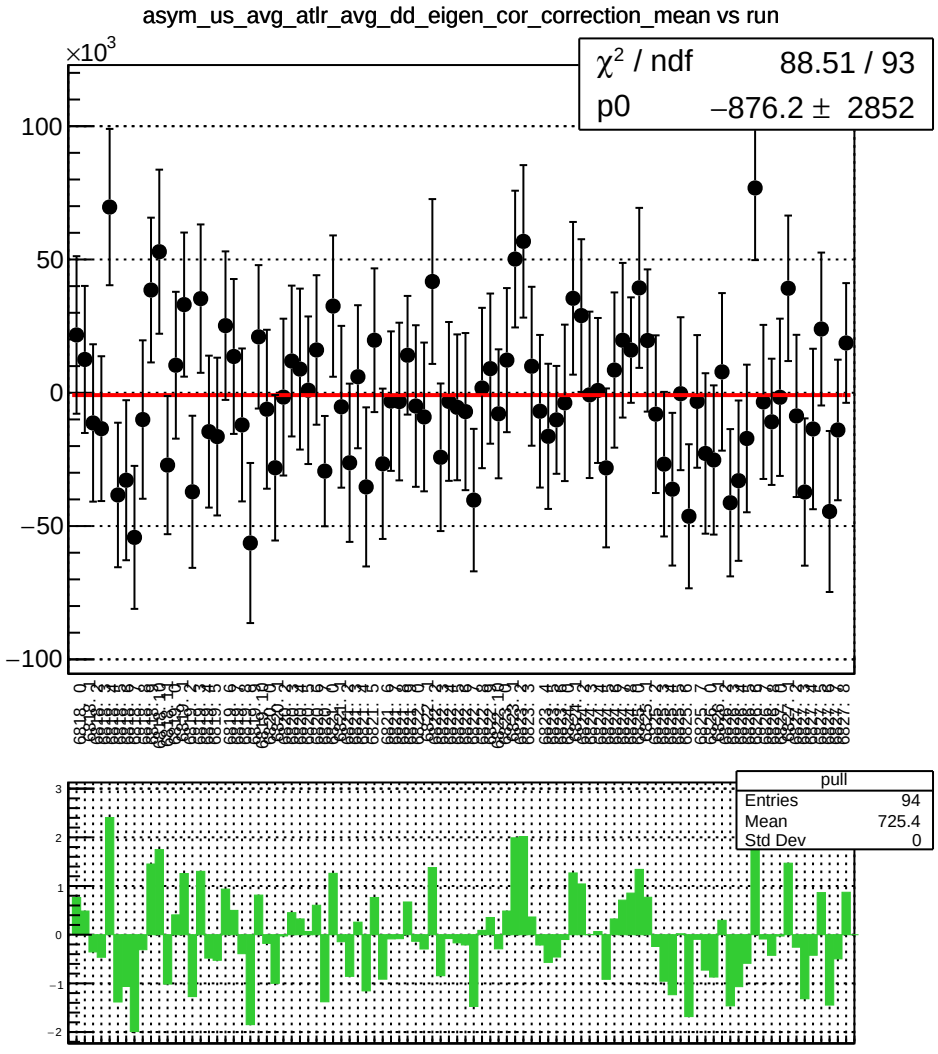

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.51 / 93
p0 −876.2 ± 2852
100
50
0
−50
−100
pull
Entries 94
Mean 725.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.001648
Std Dev 0.9703
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

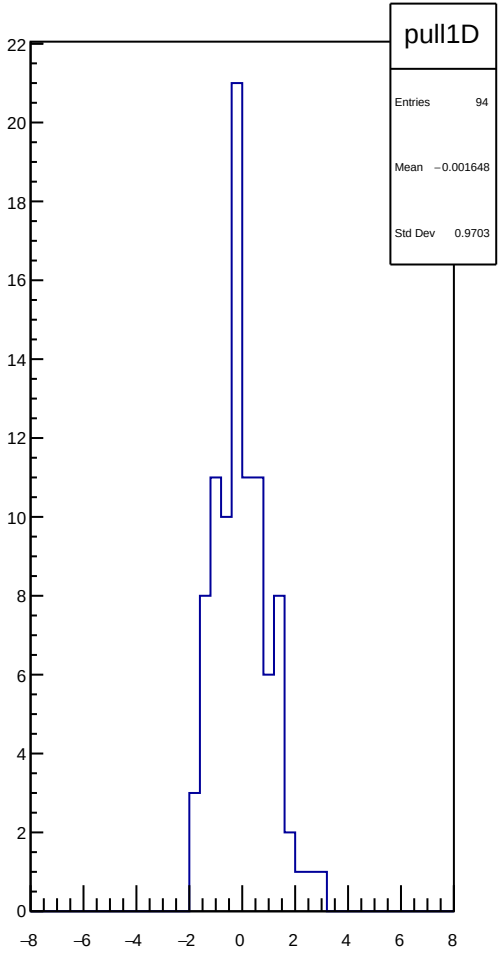

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4659 / 93
p0 2699 ± 2.017
3400
3200
3000
2800
2600
2400

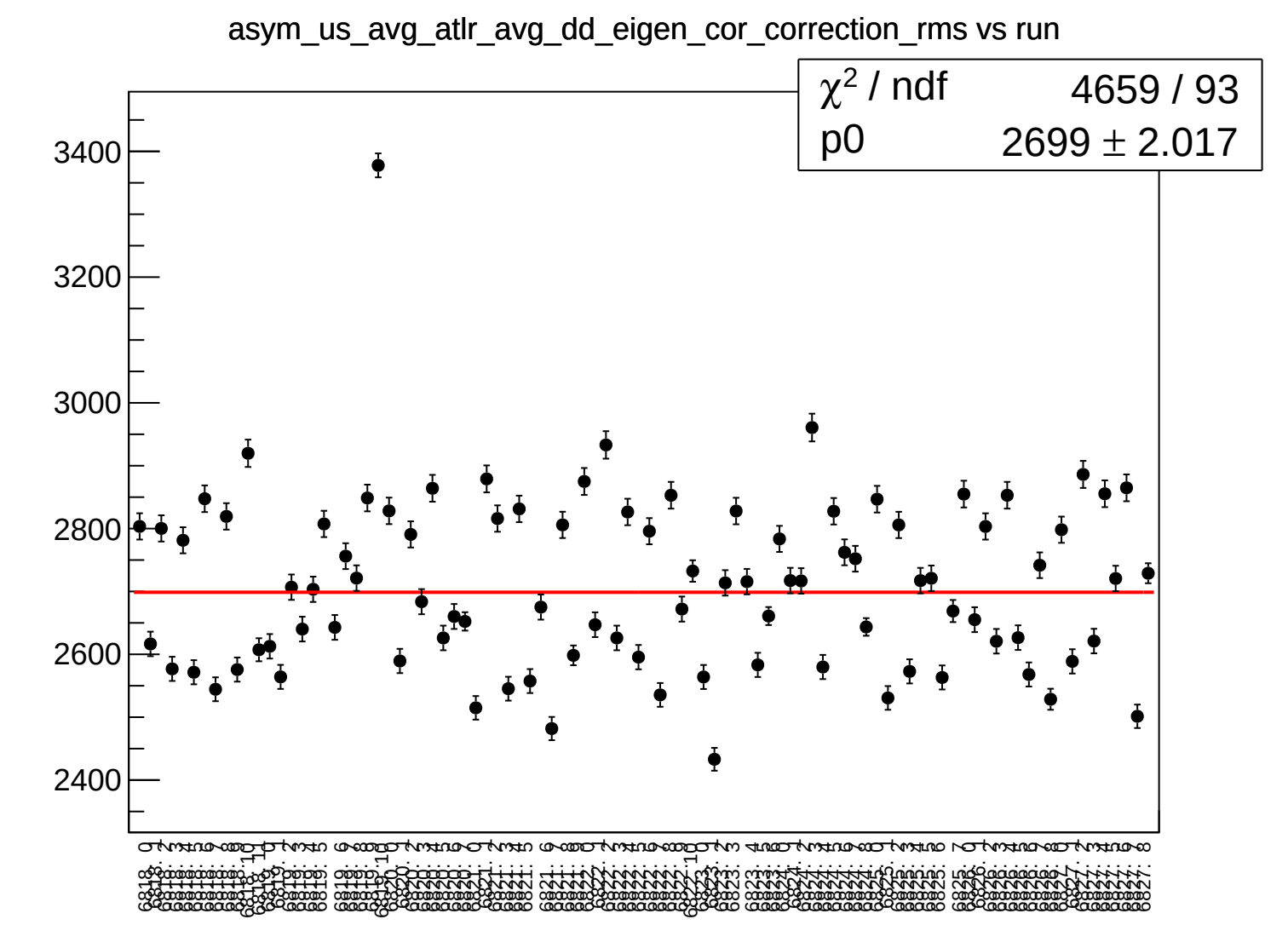

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 98.85 / 93
p0 −707.1± 1148
pull
Entries 94
Mean −1.241e+04
Std Dev 0

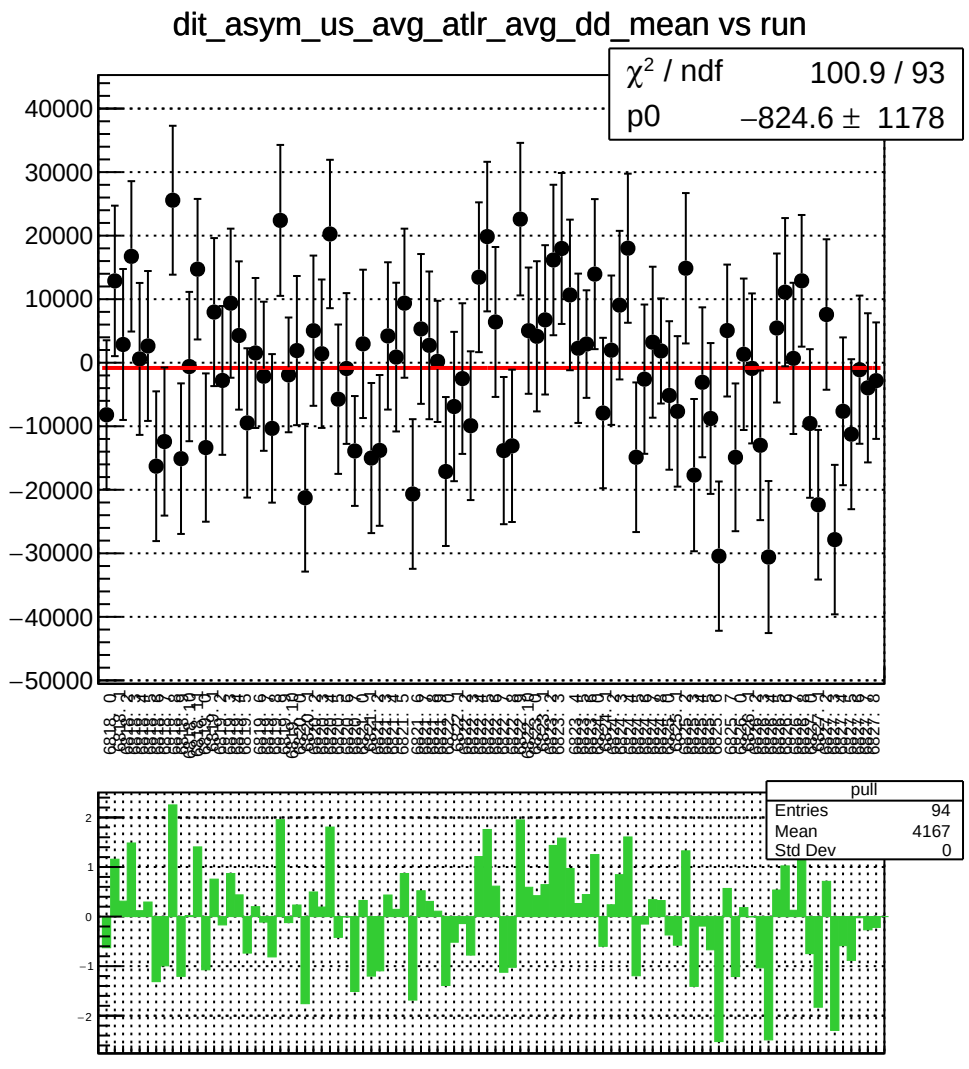

pull1D
Entries 94
Mean 0.0003214
Std Dev 1.025

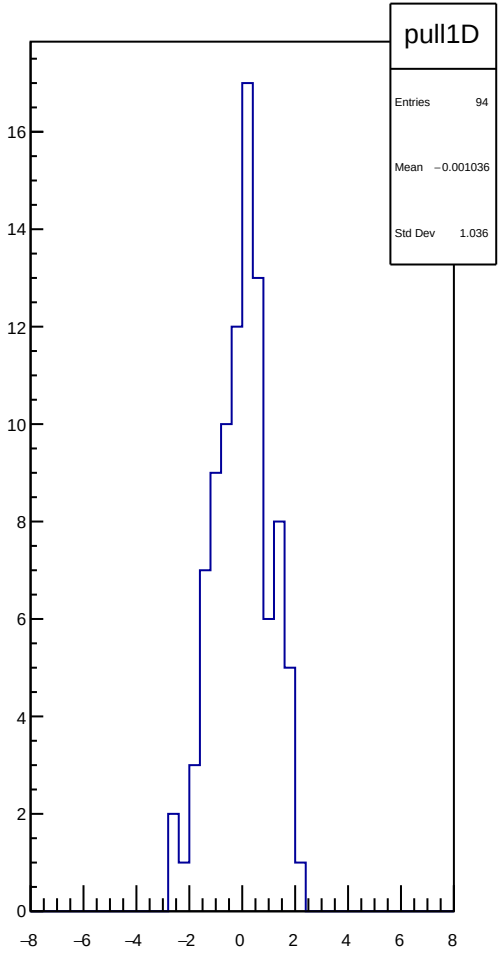

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 76.75 / 93
p0 1087 ± 0.8116
1120
1110
1100
1090
1080
1070
1060

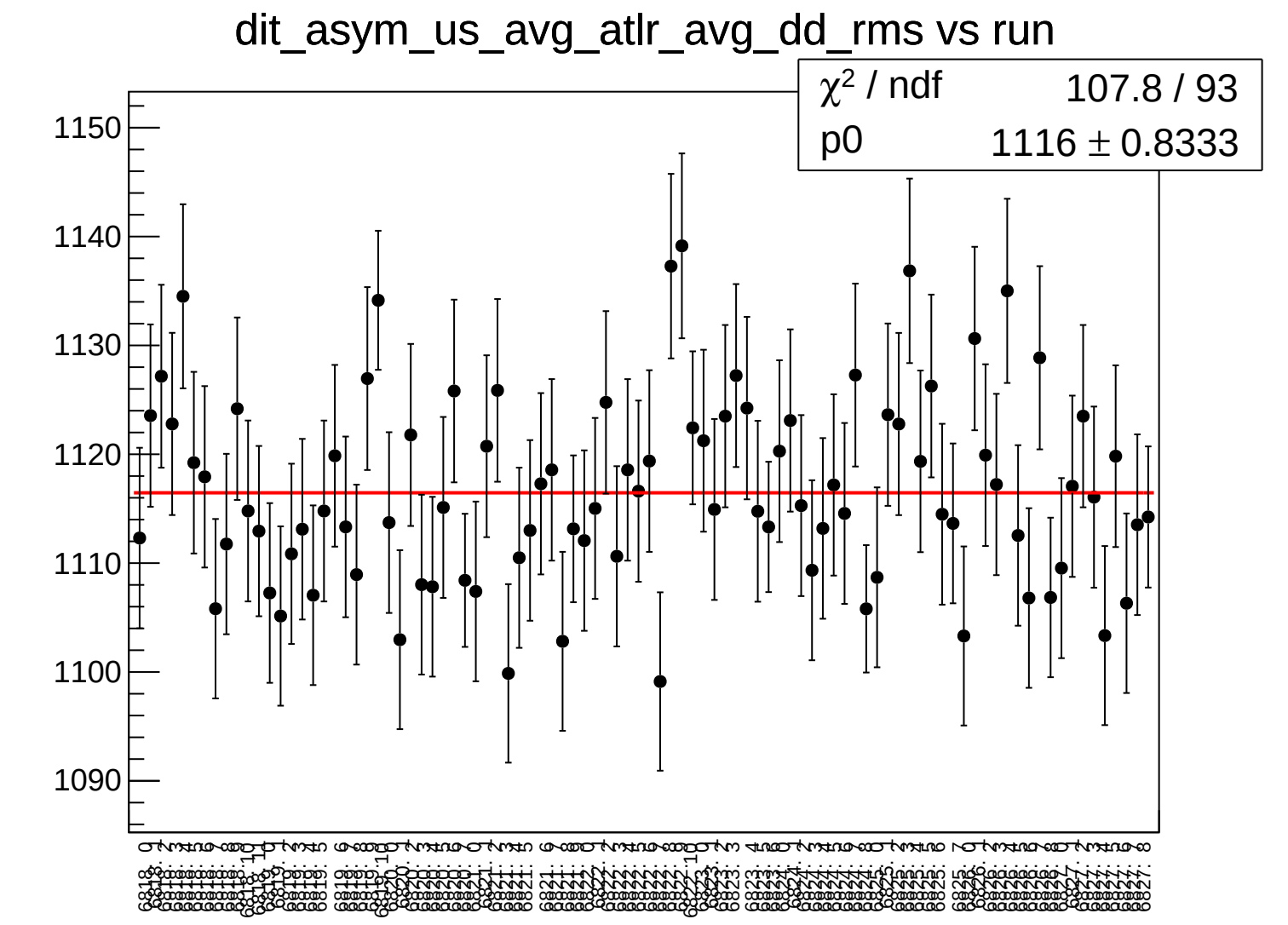

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.51 / 93
p0 −876.2 ± 2852
pull
Entries 94
Mean 725.4
Std Dev 0

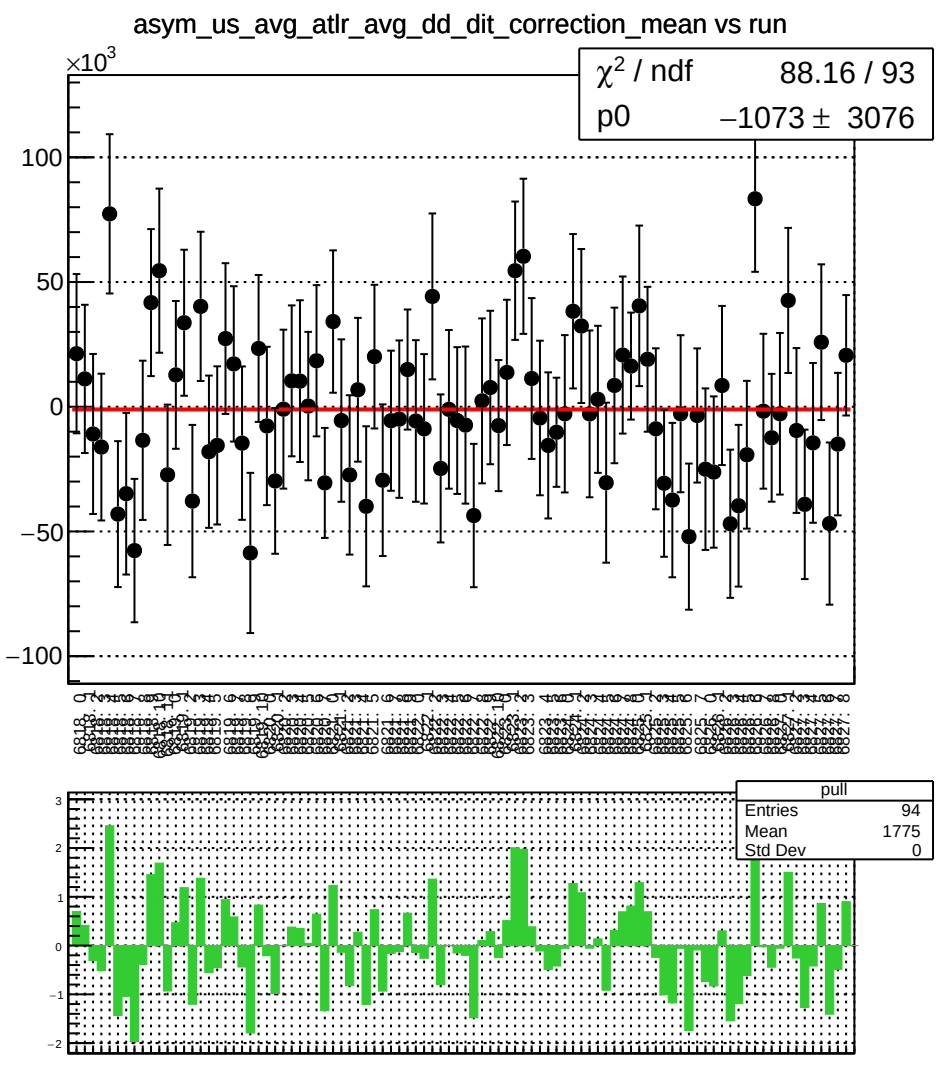

pull1D
Entries 94
Mean −0.001648
Std Dev 0.9703

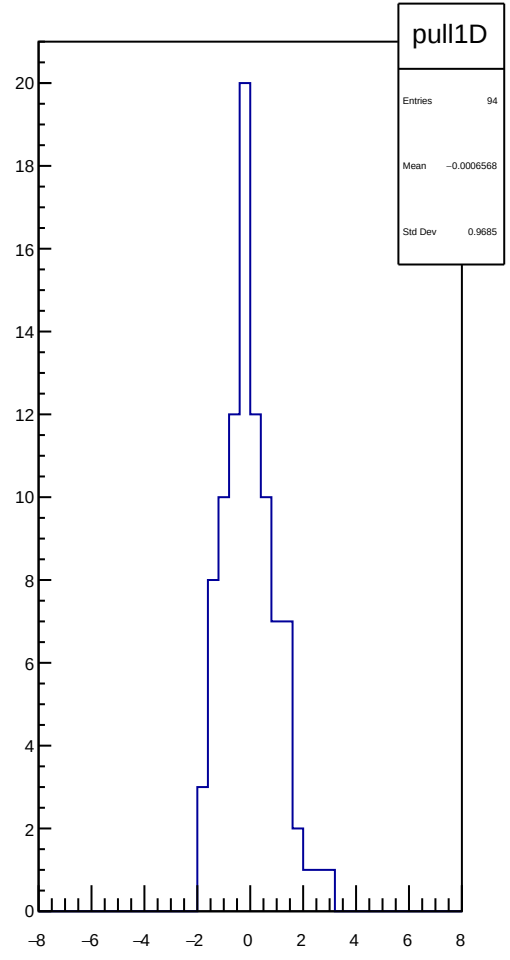

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4659 / 93
p0 2699 ± 2.017
3400
3200
3000
2800
2600
2400

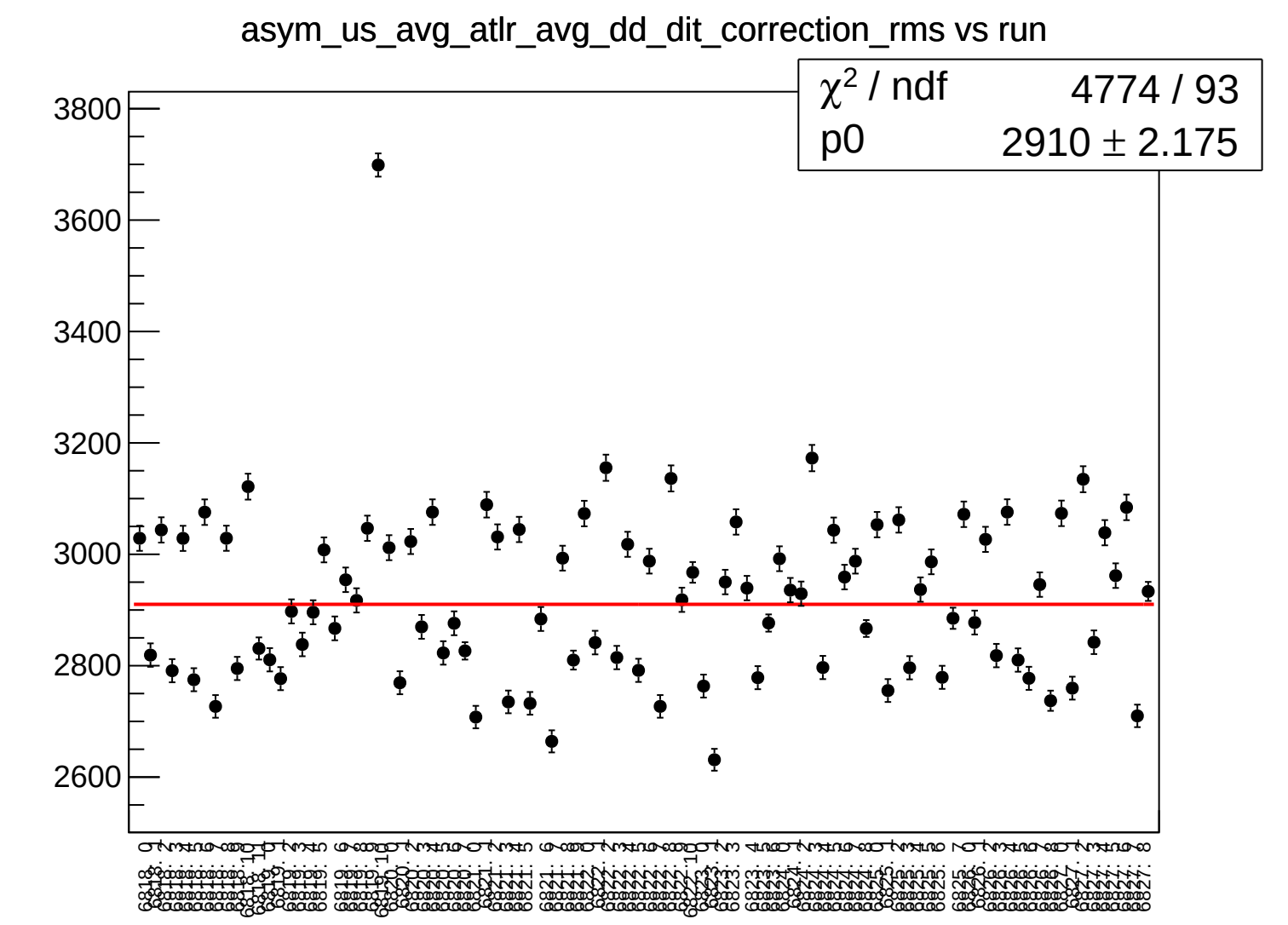

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.9 / 93
p0 −824.6 ± 1178
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 94
Mean 4167
Std Dev 0
2
1
0
−1
−2

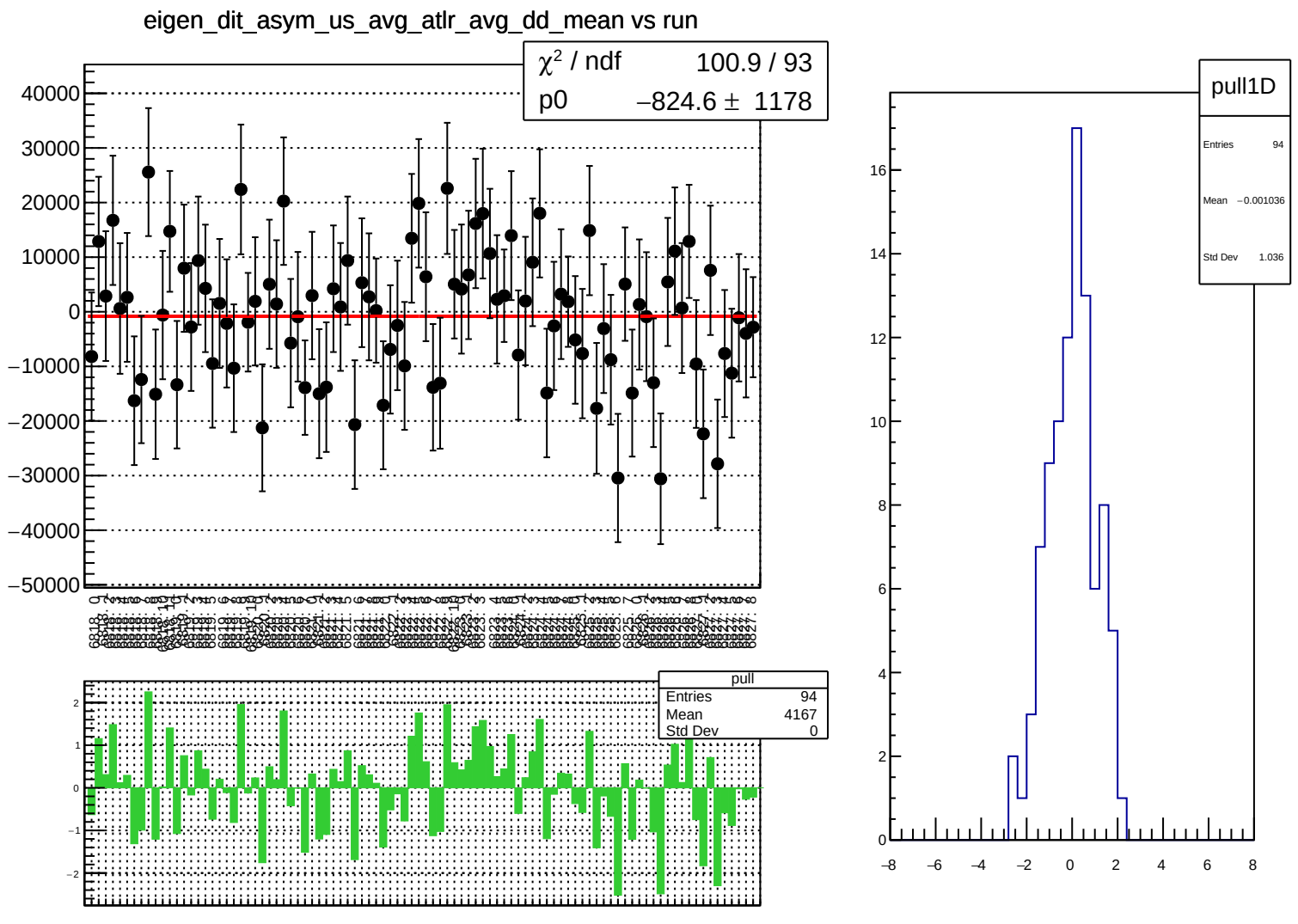

pull1D
Entries 94
Mean −0.001036
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

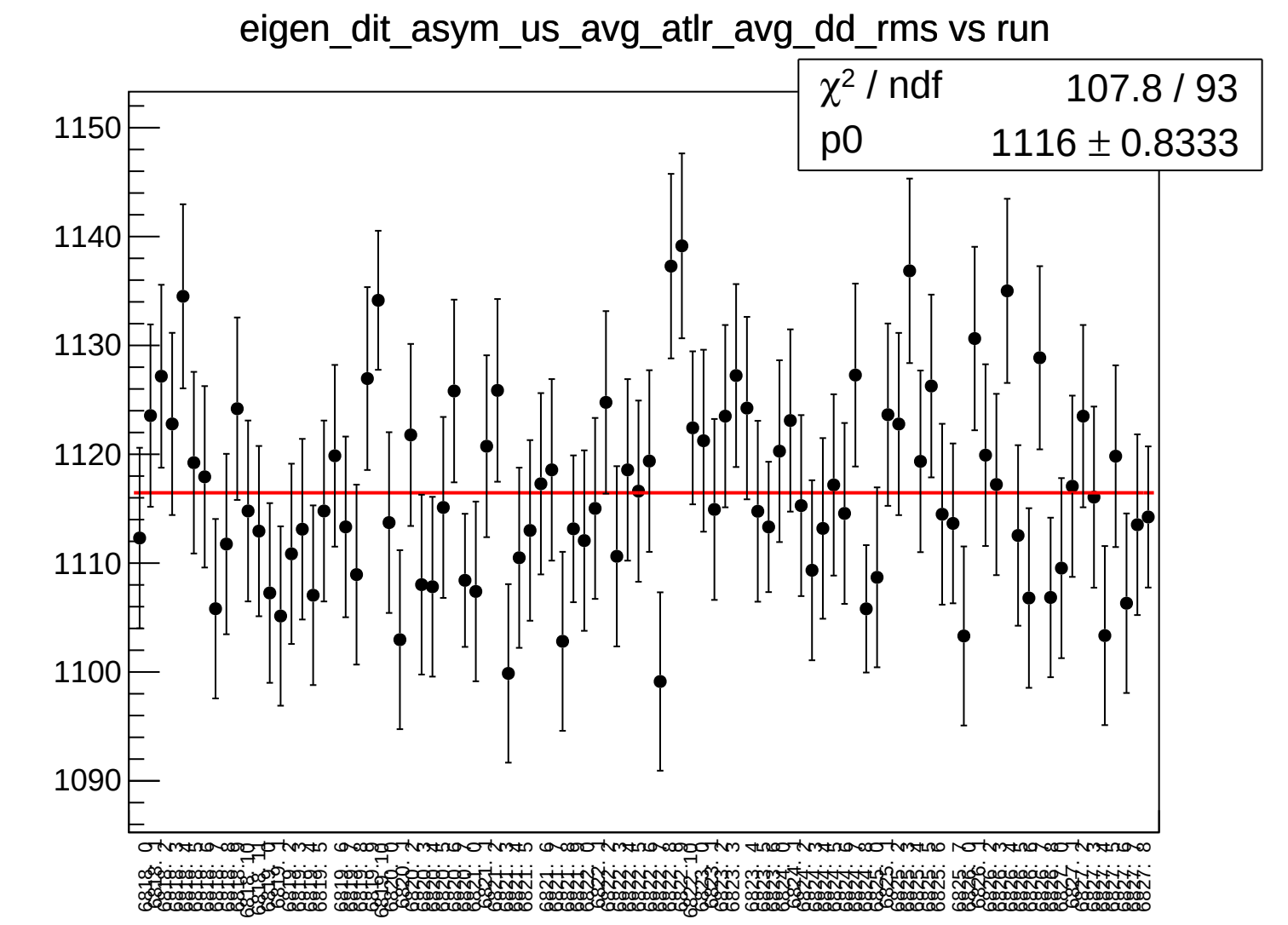

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 107.8 / 93
p0 1116 ± 0.8333
1150
1140
1130
1120
1110
1100
1090

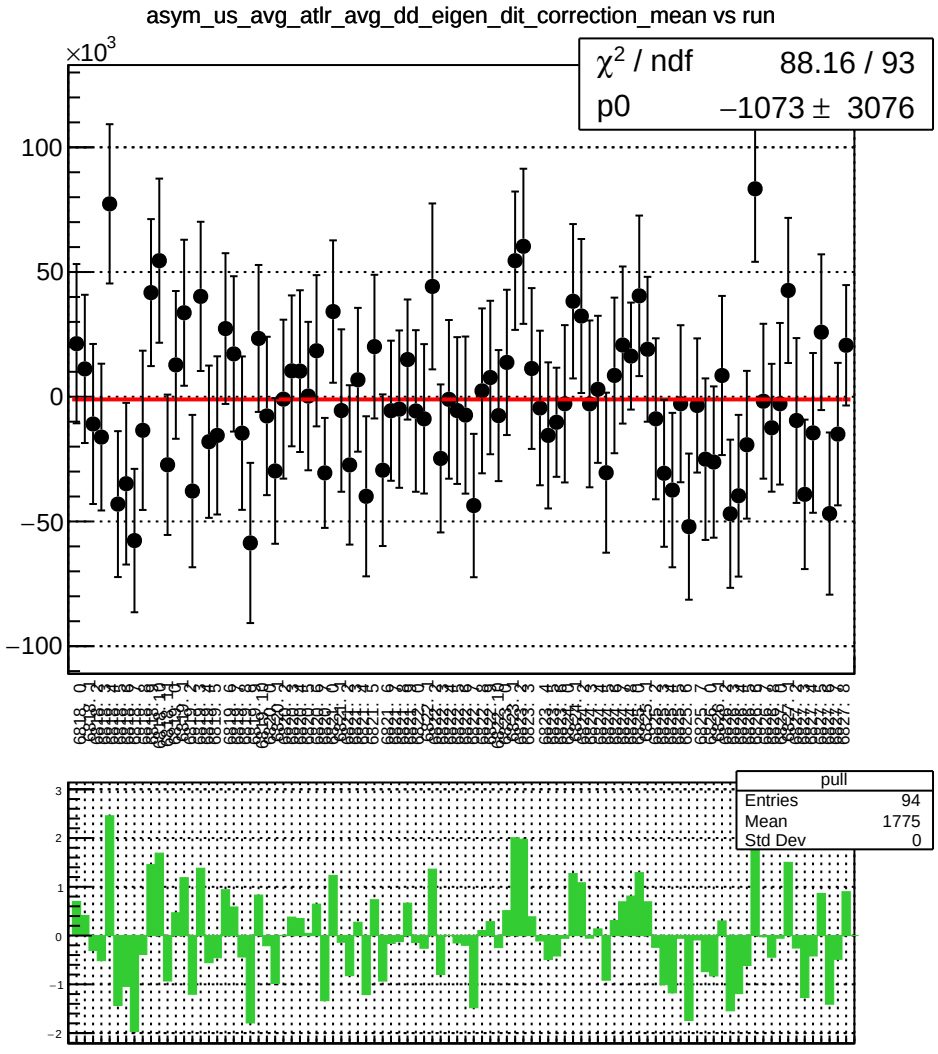

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.16 / 93
p0 −1073 ± 3076
100
50
0
−50
−100
pull
Entries 94
Mean 1775
Std Dev 0
3
2
1
0
−1
−2

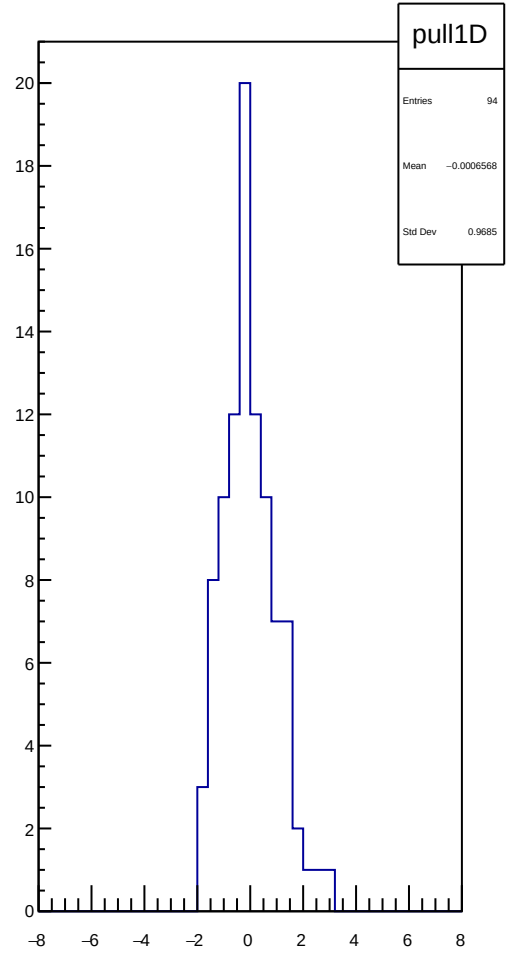

pull1D
Entries 94
Mean −0.0006568
Std Dev 0.9685
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

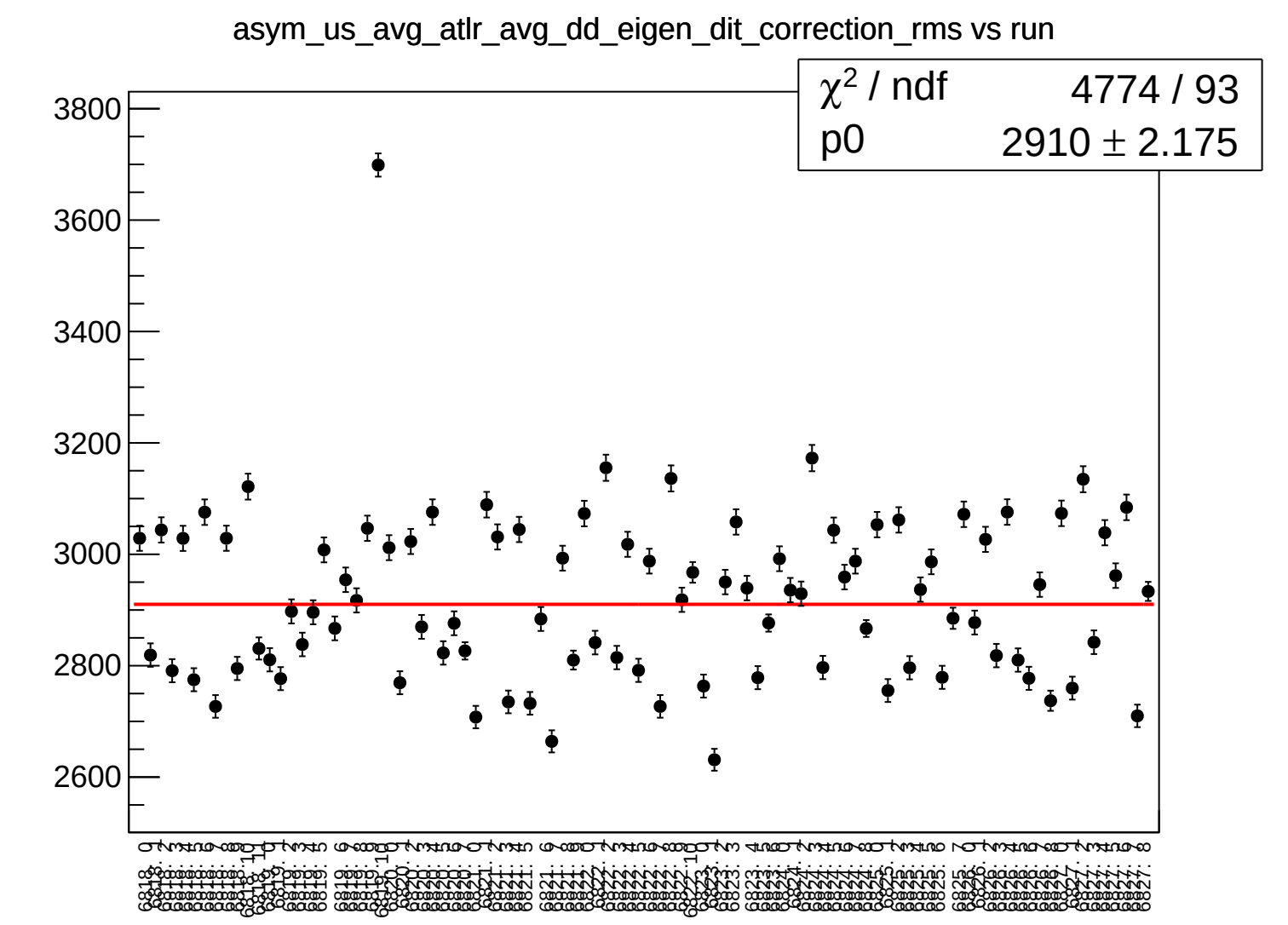

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 4774 / 93
p0 2910 ± 2.175
3800
3600
3400
3200
3000
2800
2600

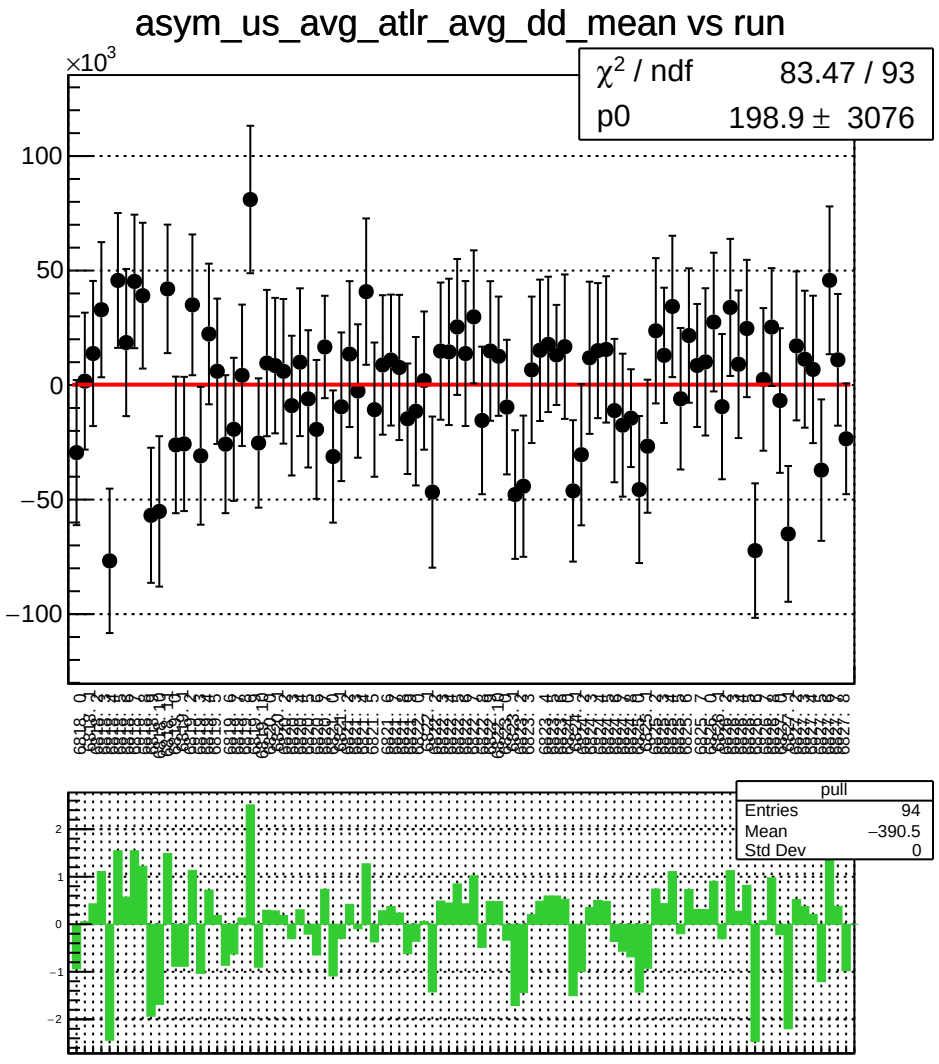

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 100.9 / 93
p0 −824.6 ± 1178
pull
Entries 94
Mean 4167
Std Dev 0
pull1D
Entries 94
Mean −0.001036
Std Dev 1.036

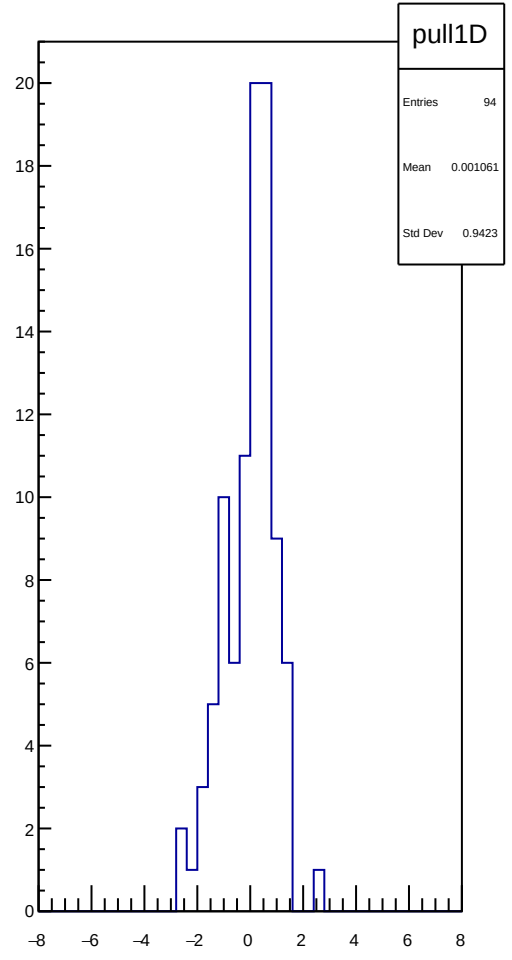

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 107.8 / 93
p0 1116 ± 0.8333
1150
1140
1130
1120
1110
1100
1090

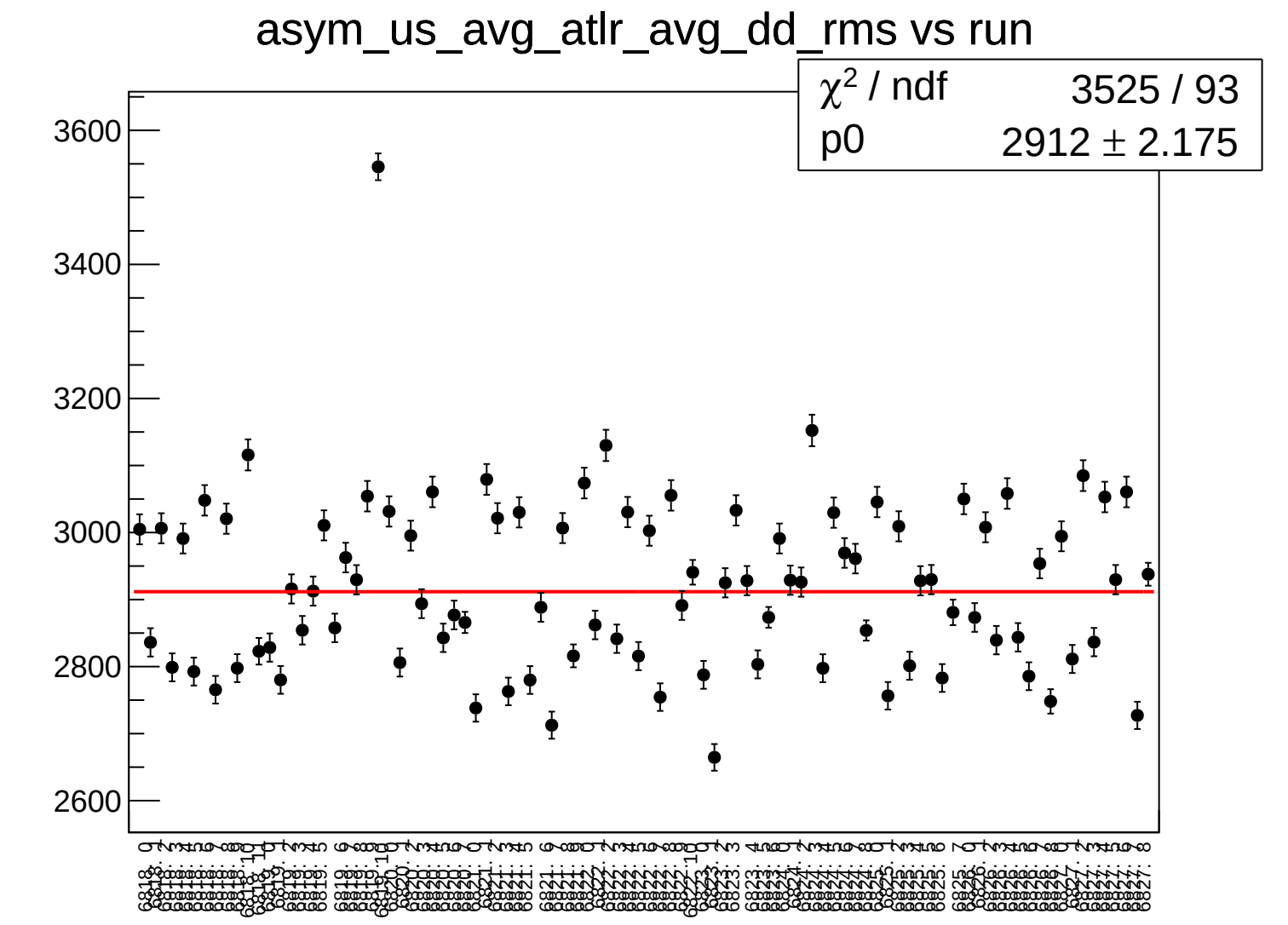

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 88.16 / 93
p0 −1073 ± 3076
100
50
0
−50
−100
pull
Entries 94
Mean 1775
Std Dev 0
3
2
1
0
−1
−2

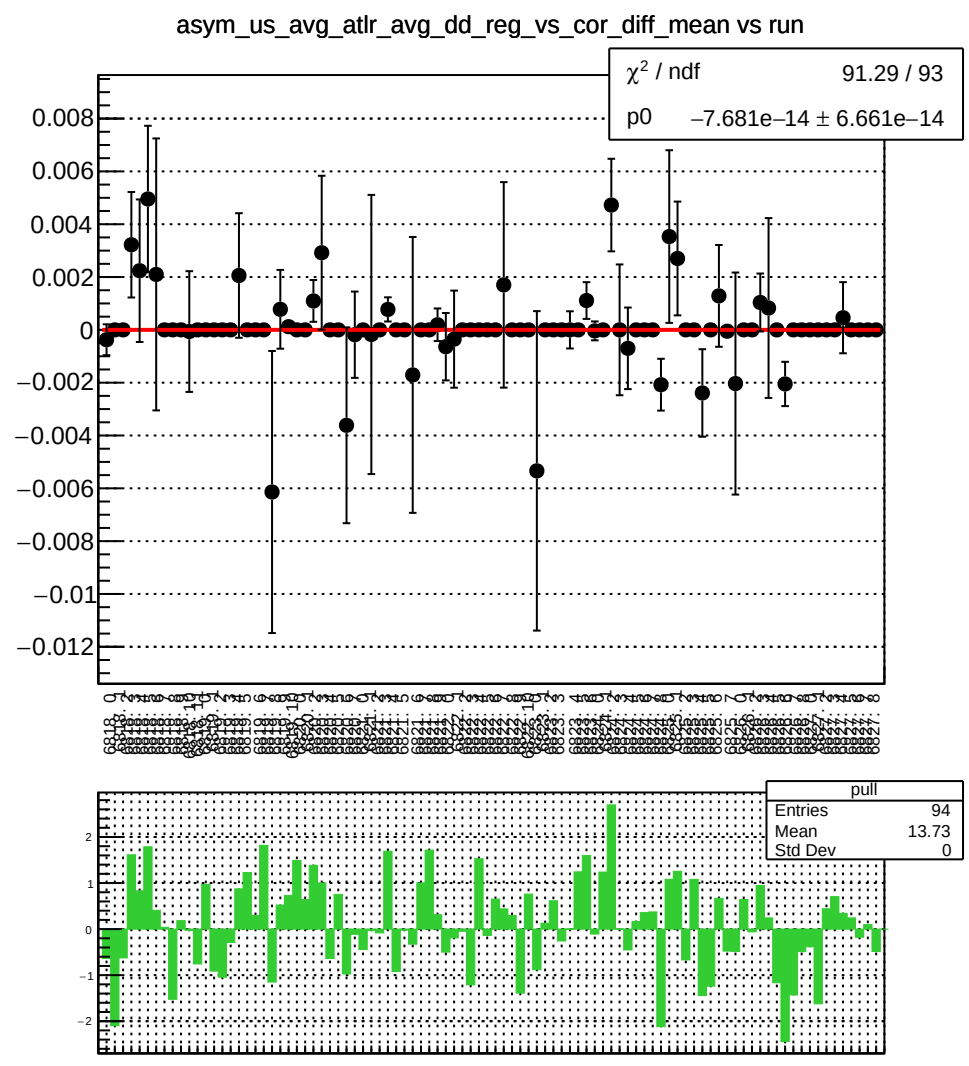

pull1D
Entries 94
Mean −0.0006568
Std Dev 0.9685
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

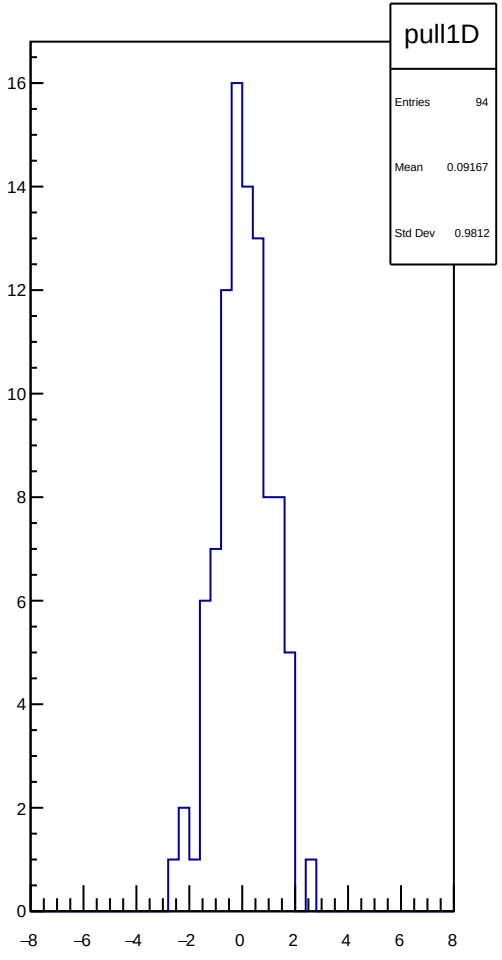

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4774 / 93
p0 2910 ± 2.175
3800
3600
3400
3200
3000
2800
2600

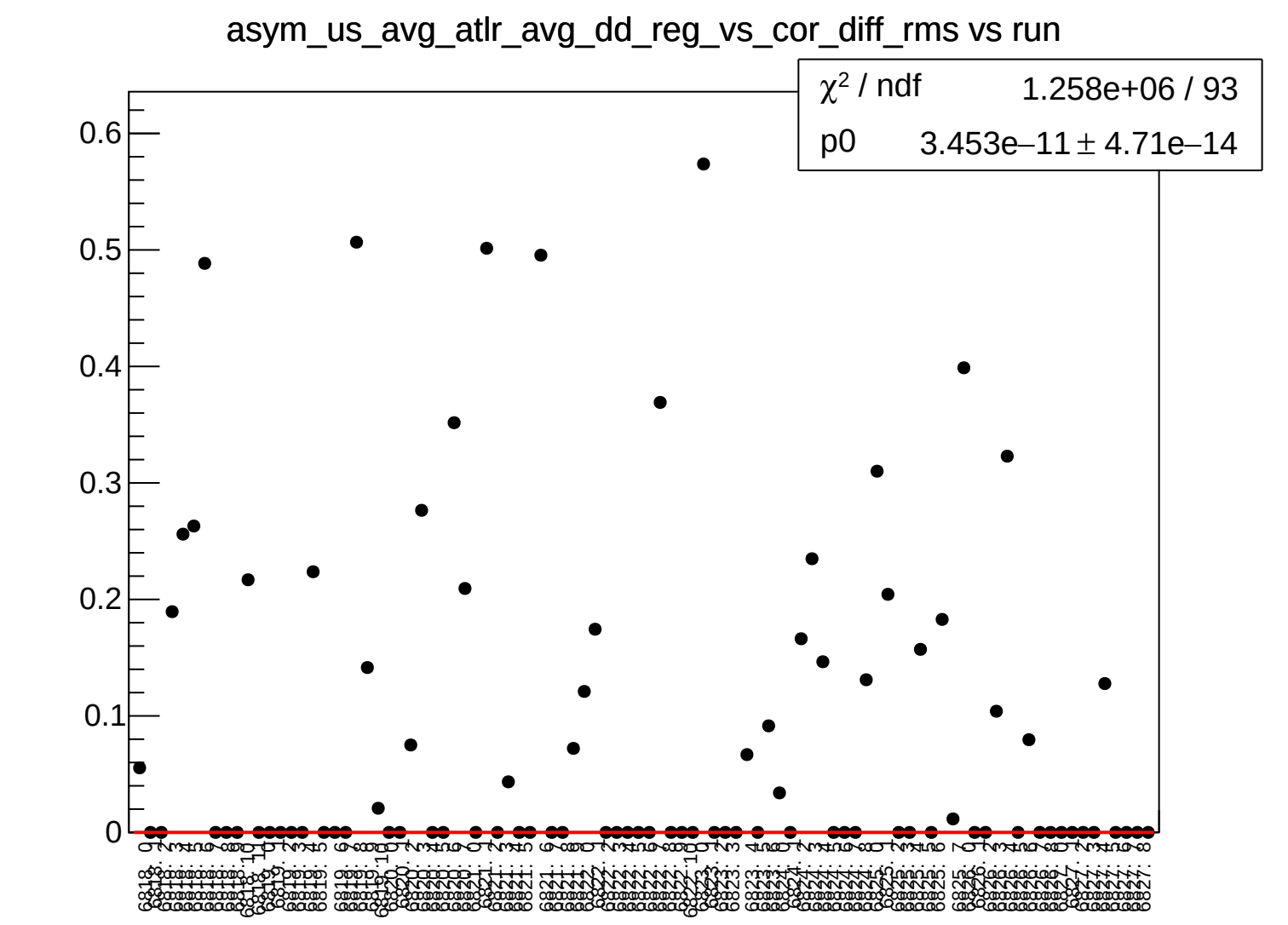

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 83.47 / 93
p0 198.9 ± 3076
100
50
0
−50
−100
pull
Entries 94
Mean −390.5
Std Dev 0
2
1
0
−1
−2

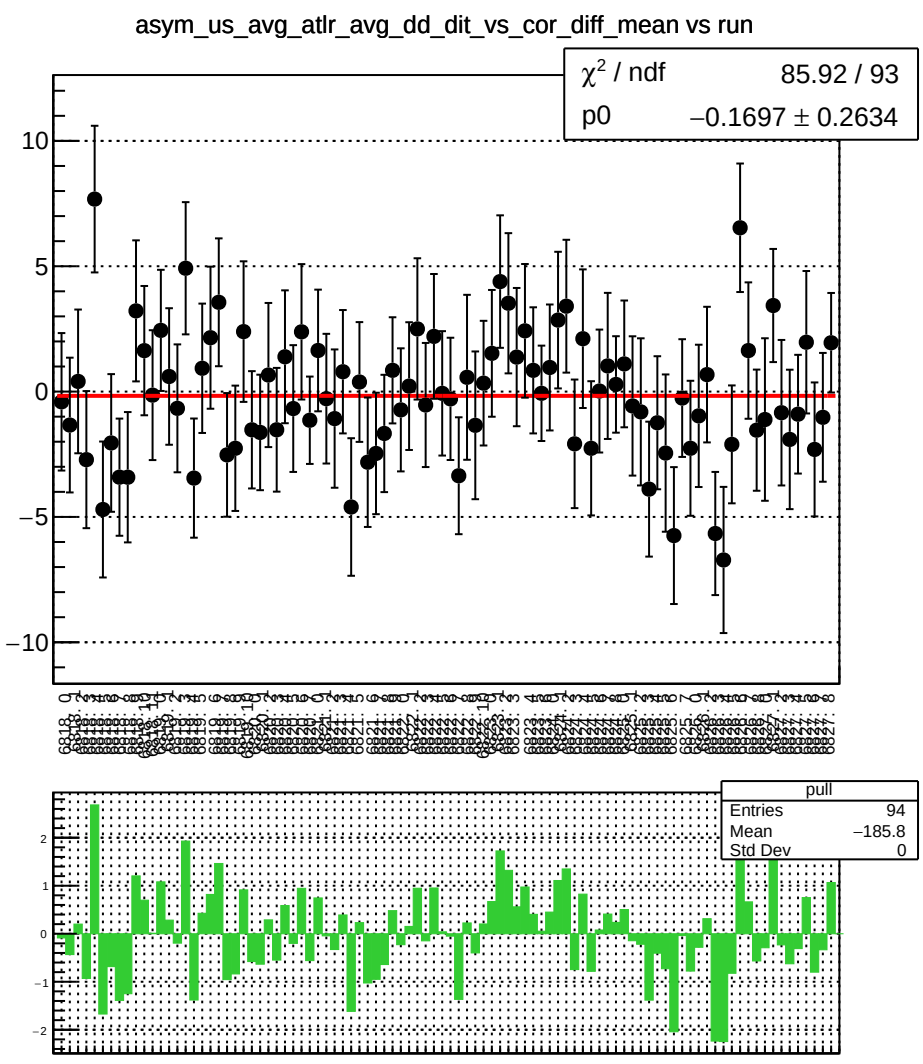

pull1D
Entries 94
Mean 0.001061
Std Dev 0.9423
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

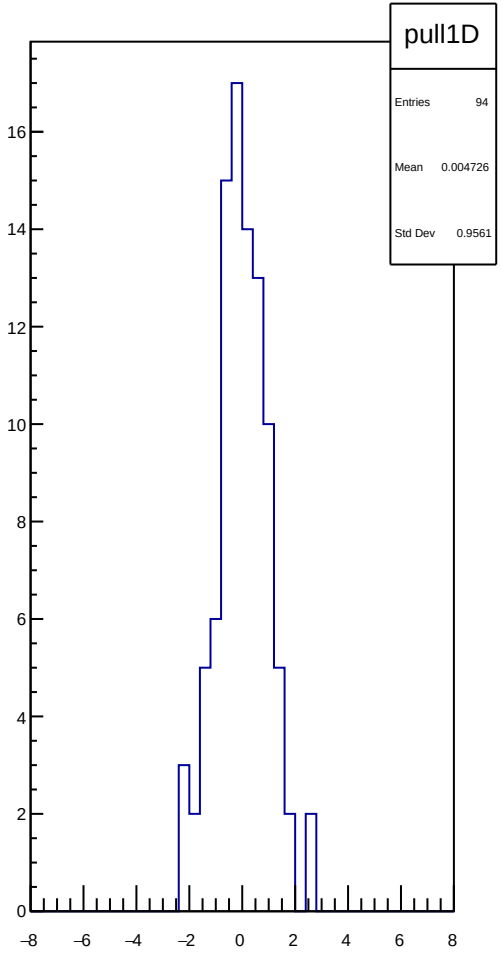

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3525 / 93
p0 2912 ± 2.175
3600
3400
3200
3000
2800
2600

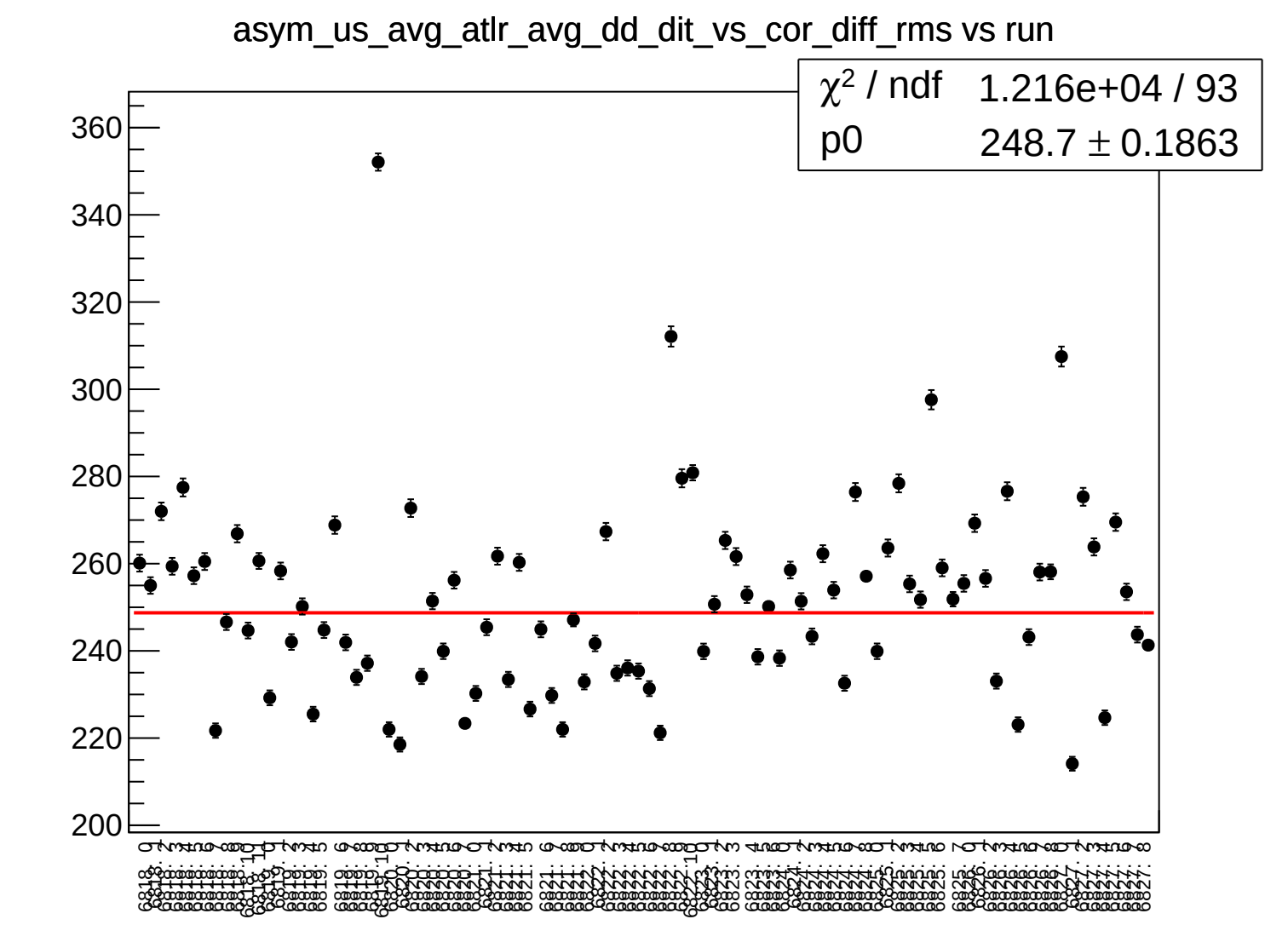

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 93
p0 −7.681e−14 ± 6.661e−14
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
−0.01
−0.012
pull
Entries 94
Mean 13.73
Std Dev 0
2
1
0
−1
−2

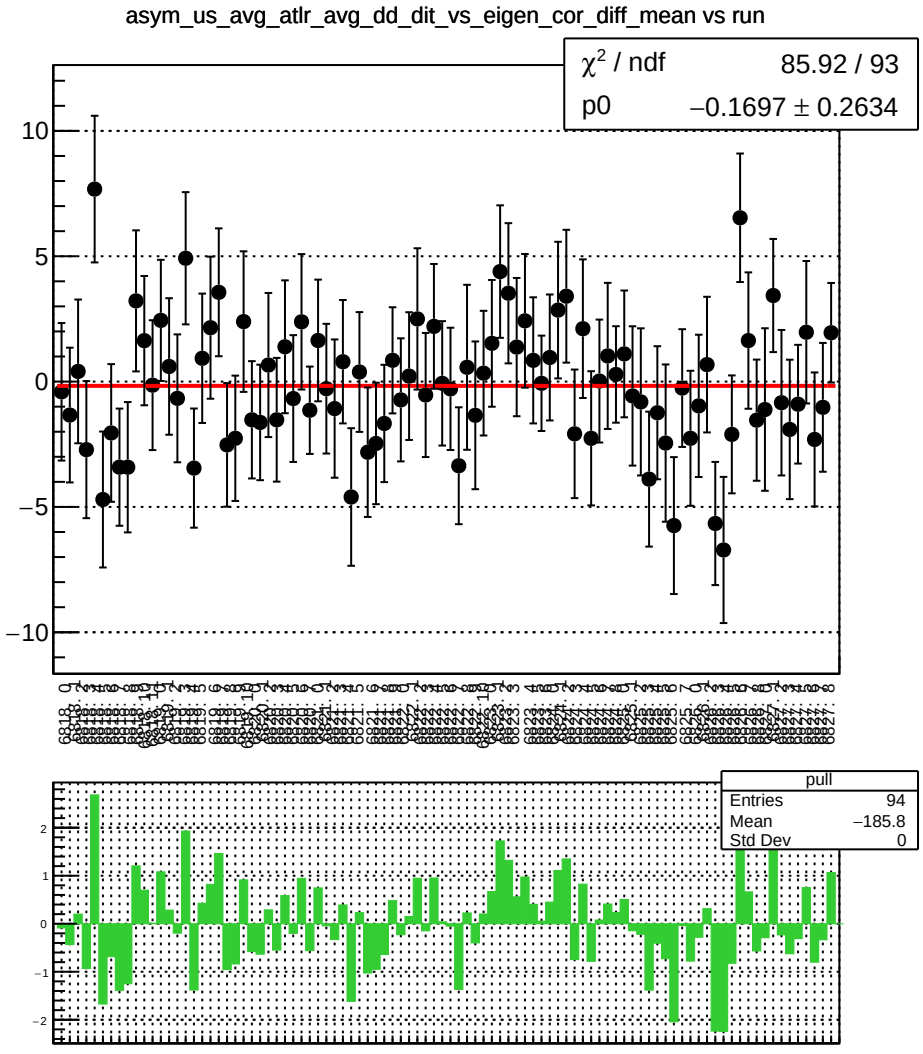

pull1D
Entries 94
Mean 0.09167
Std Dev 0.9812
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

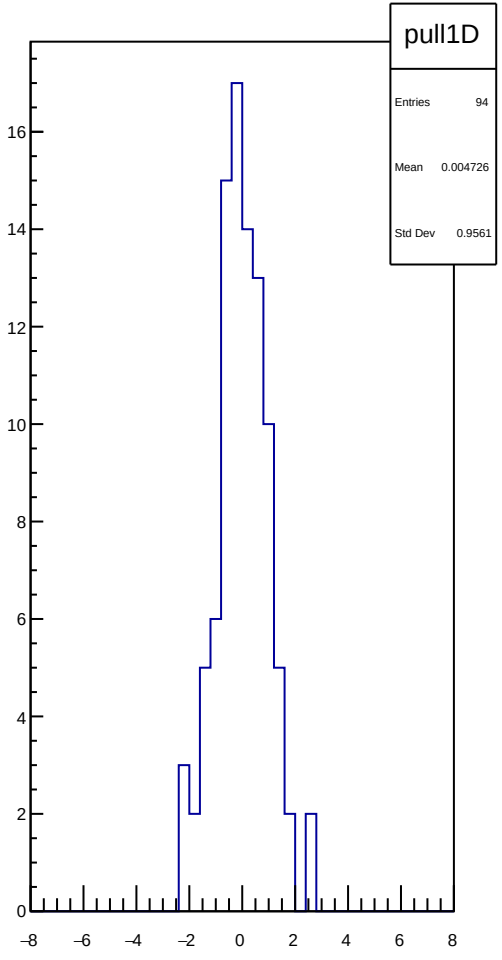

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 93
p0 3.453e−11 ± 4.71e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

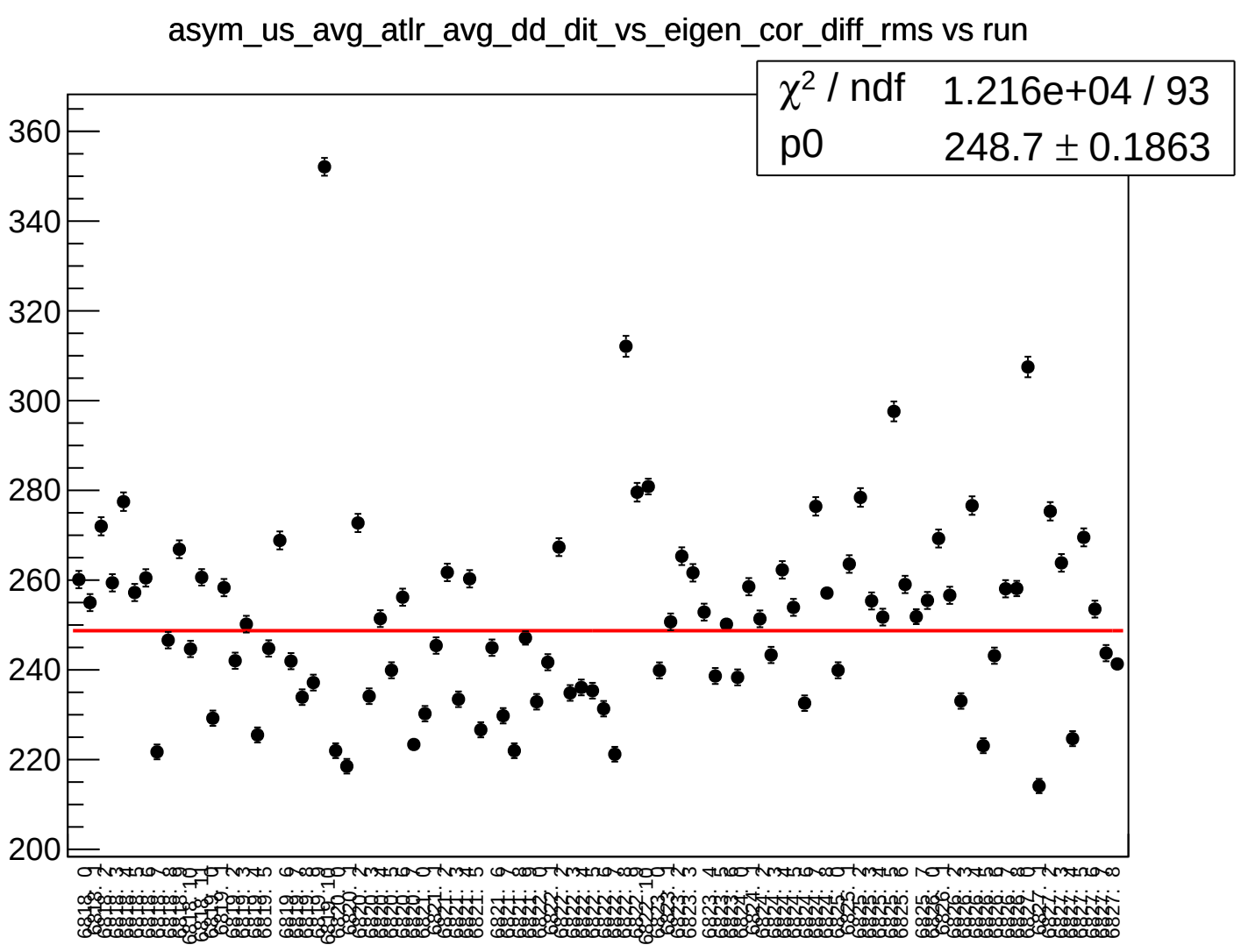

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 93
p0 −0.1697 ± 0.2634
pull
Entries 94
Mean −185.8
Std Dev 0

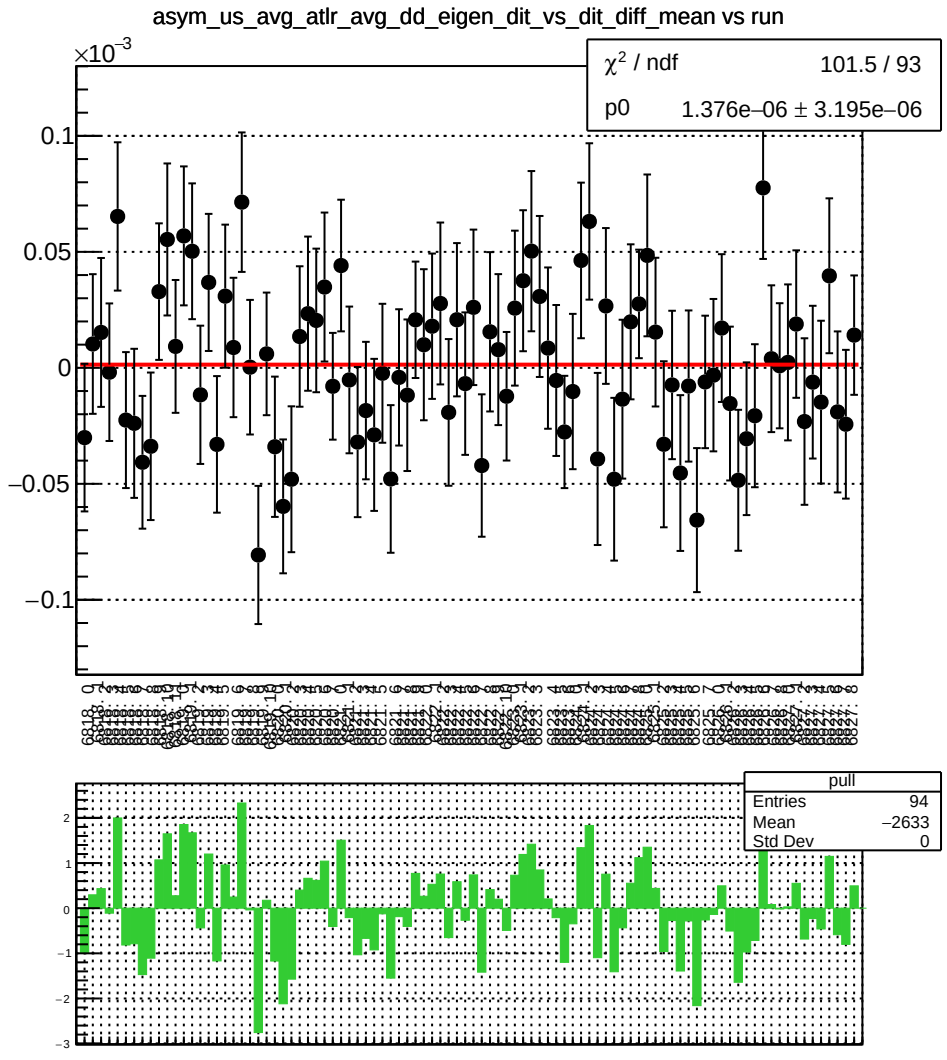

pull1D
Entries 94
Mean 0.004726
Std Dev 0.9561

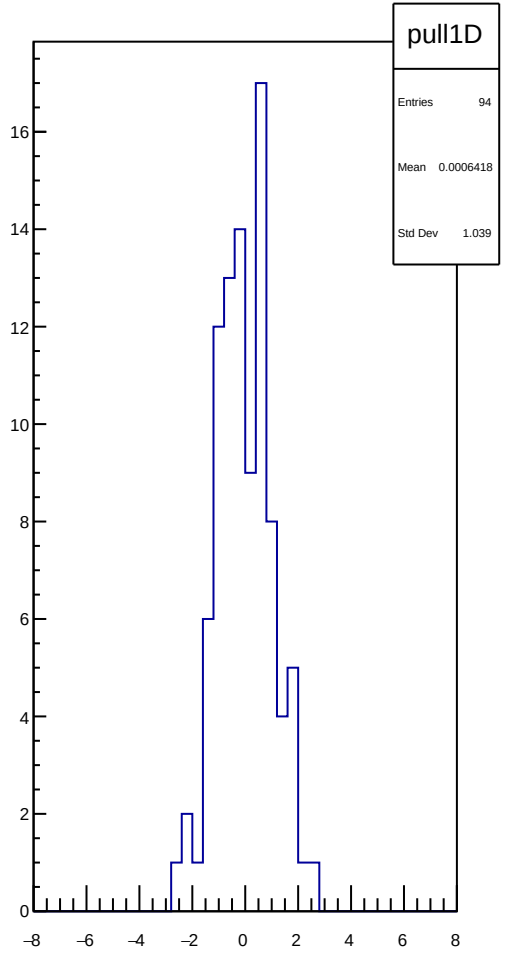

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.216e+04 / 93
p0 248.7 ± 0.1863
360
340
320
300
280
260
240
220
200

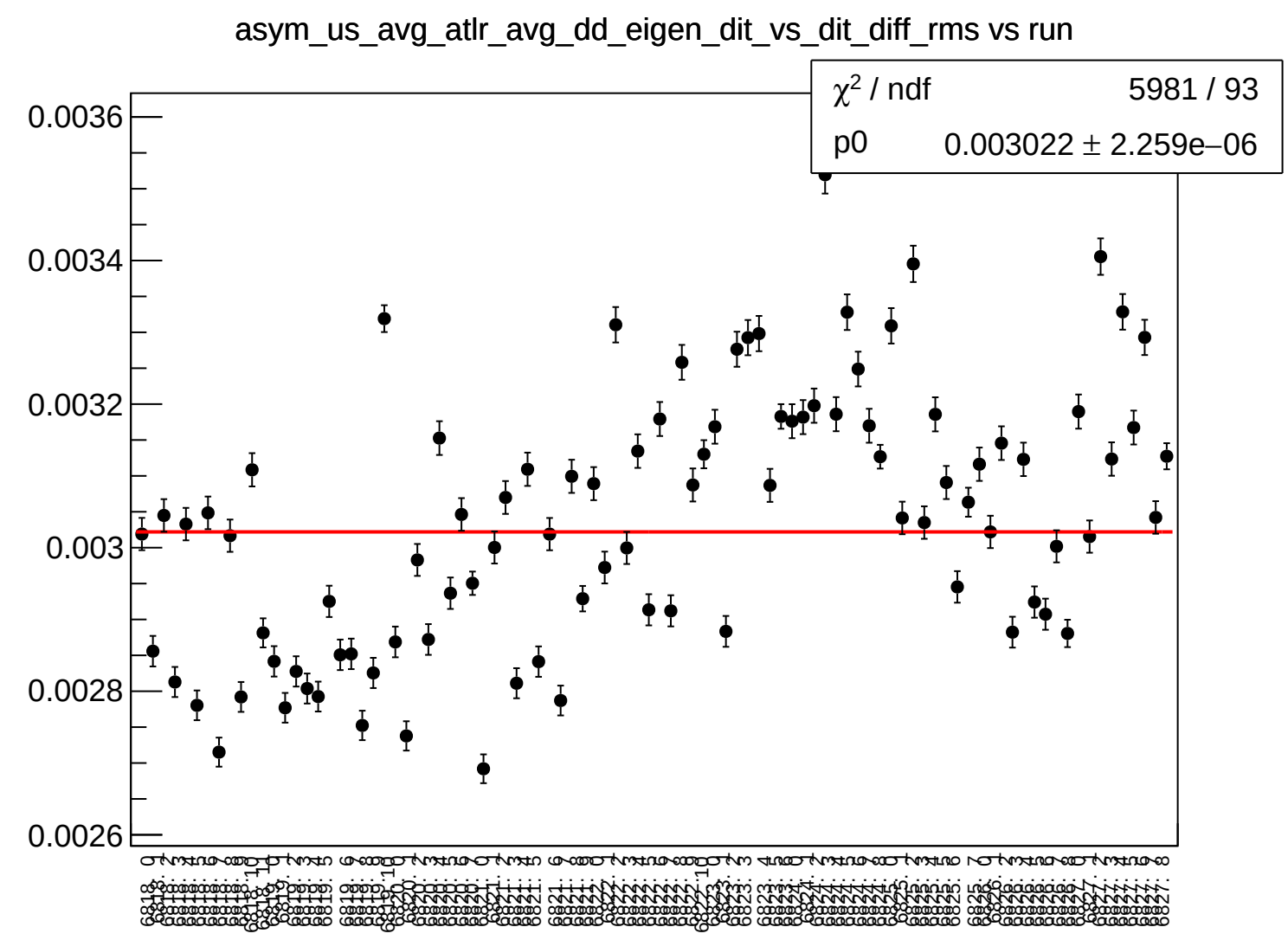

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 93
p0 −0.1697 ± 0.2634
pull
Entries 94
Mean −185.8
Std Dev 0

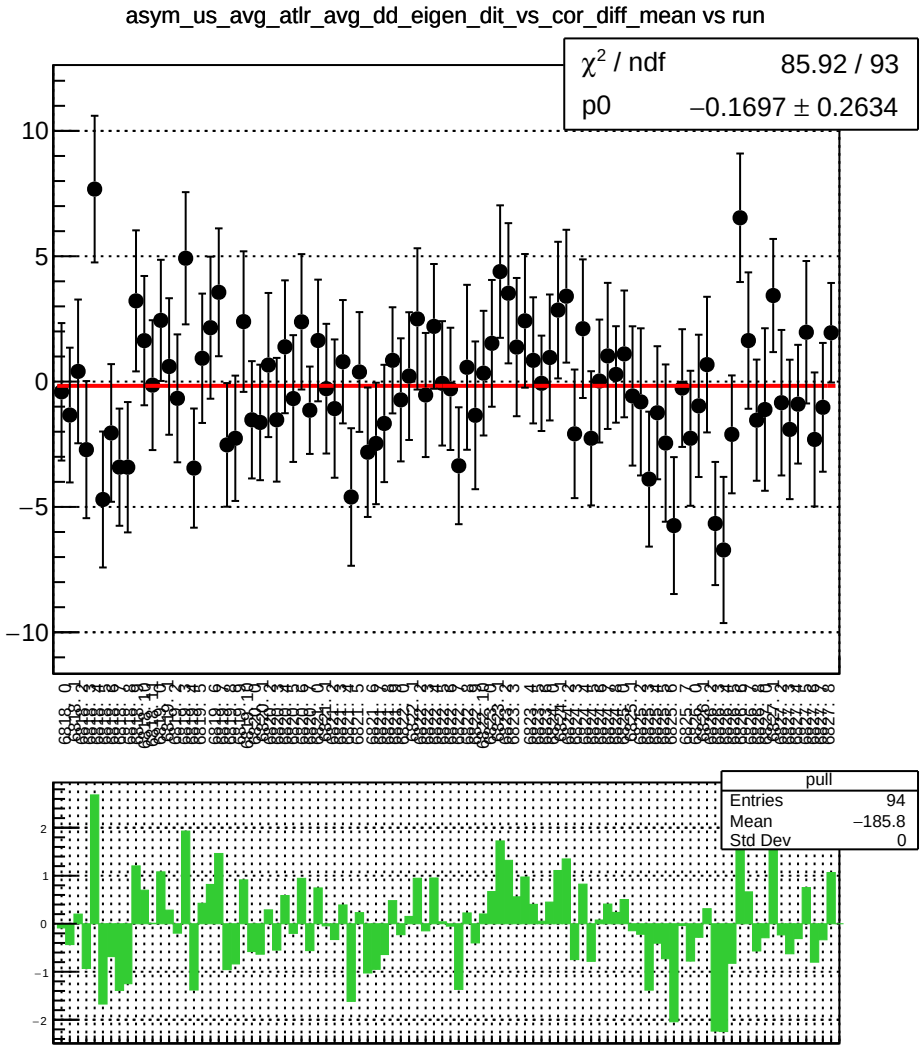

pull1D
Entries 94
Mean 0.004726
Std Dev 0.9561

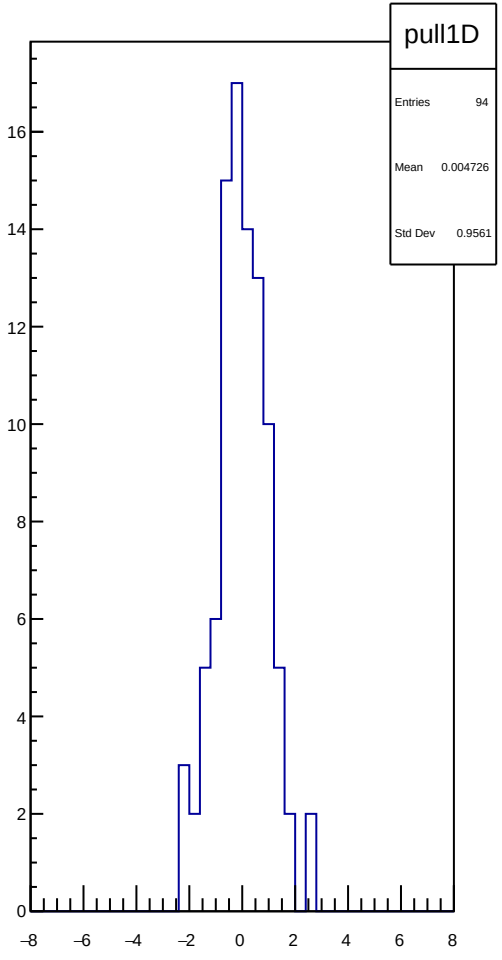

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.216e+04 / 93
p0 248.7 ± 0.1863
360
340
320
300
280
260
240
220
200

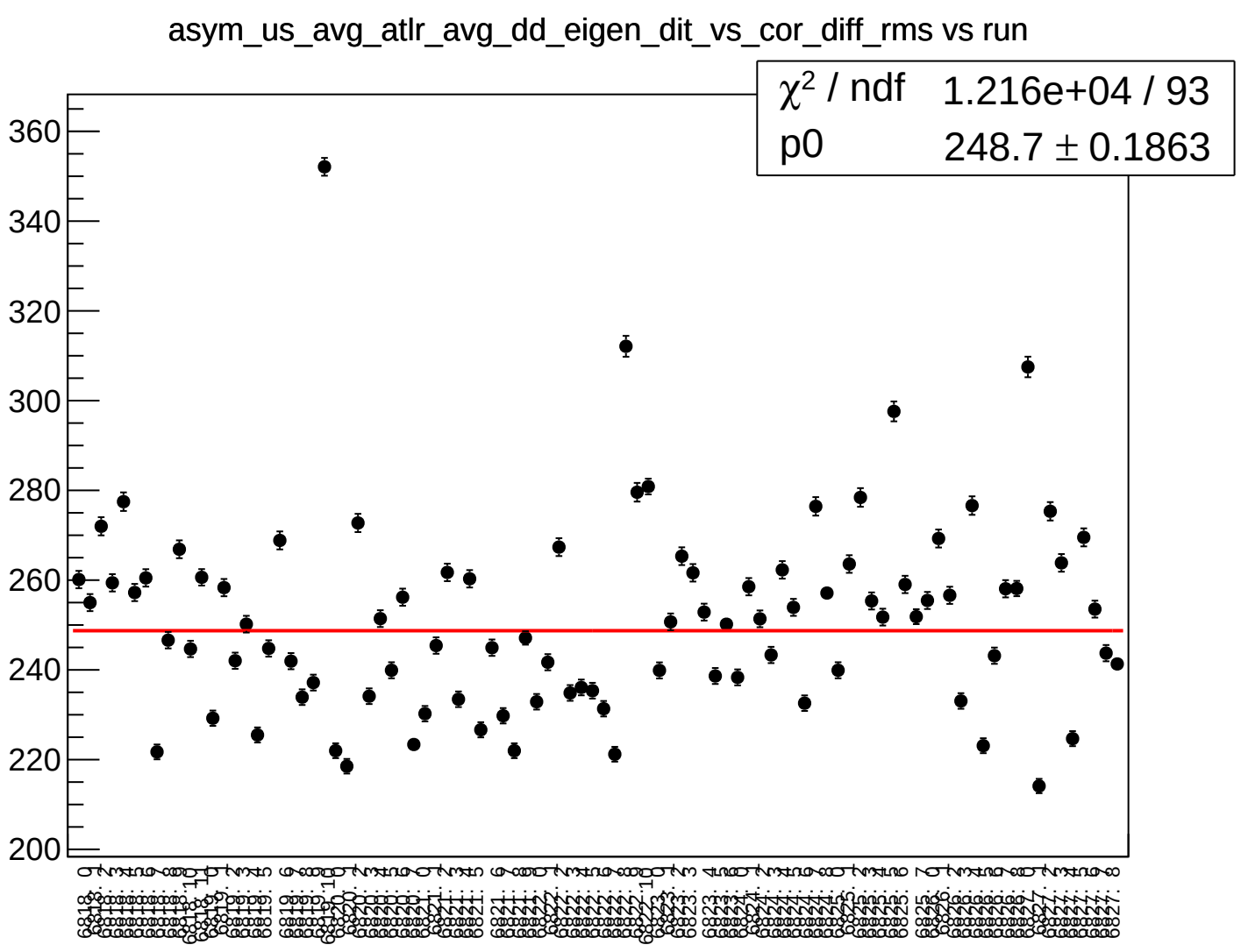

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 93
p0 1.376e−06 ± 3.195e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −2633
Std Dev 0
2
1
0
−1
−2
−3

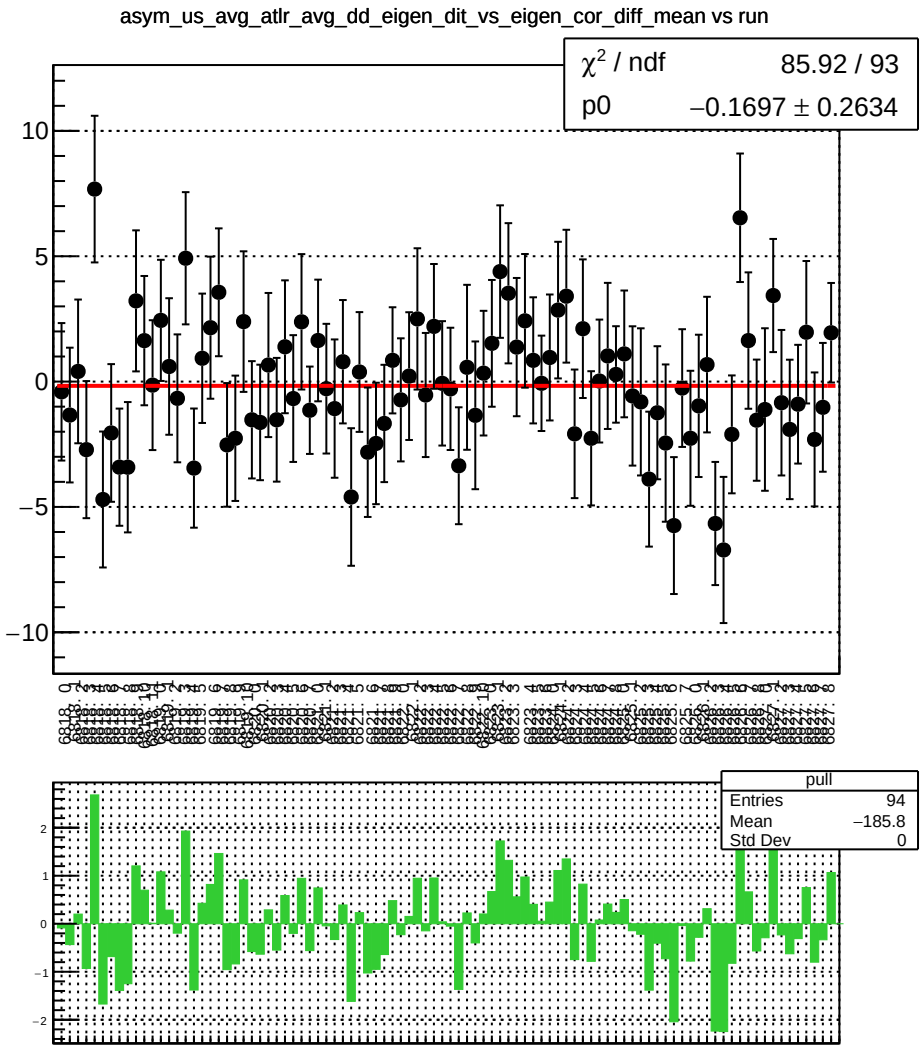

pull1D
Entries 94
Mean 0.0006418
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

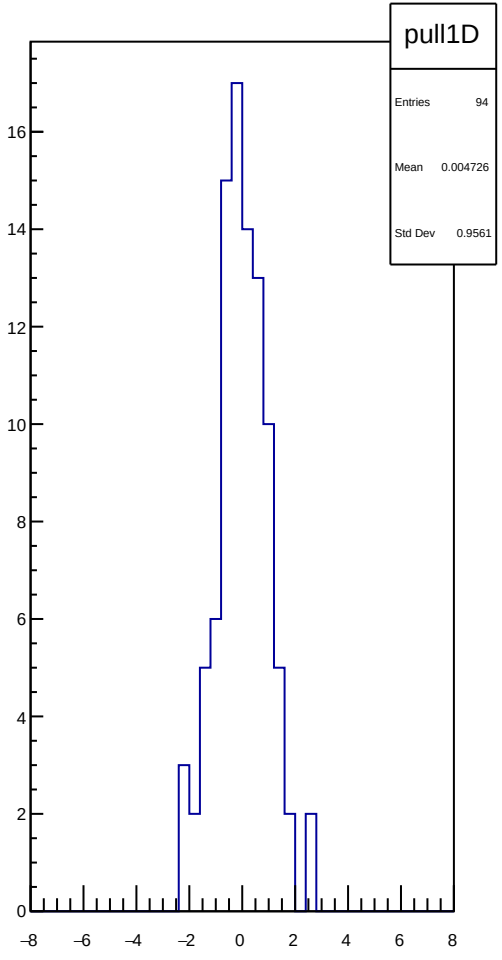

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5981 / 93
p0 0.003022 ± 2.259e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

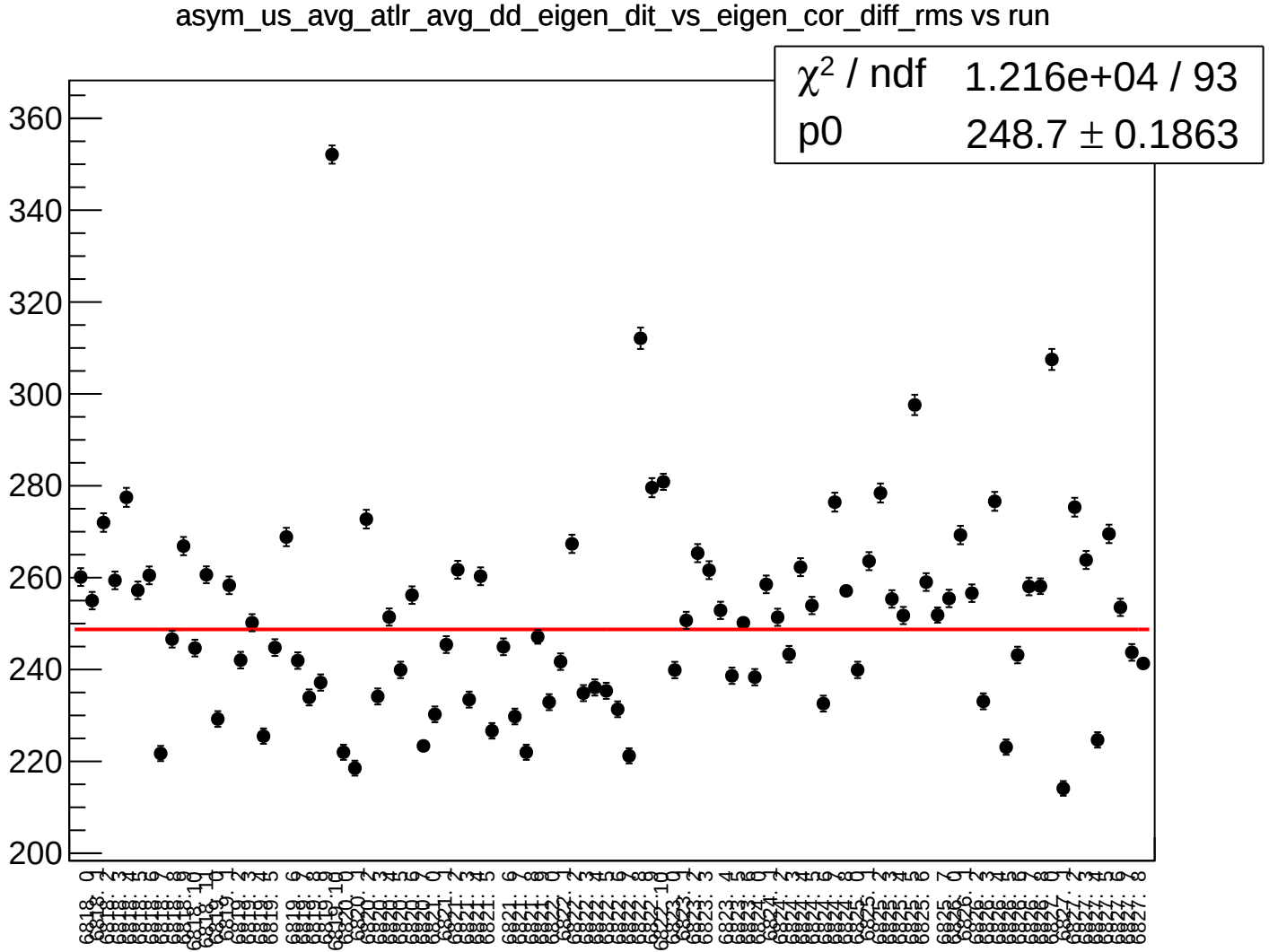

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.92 / 93
p0 −0.1697 ± 0.2634
pull
Entries 94
Mean −185.8
Std Dev 0

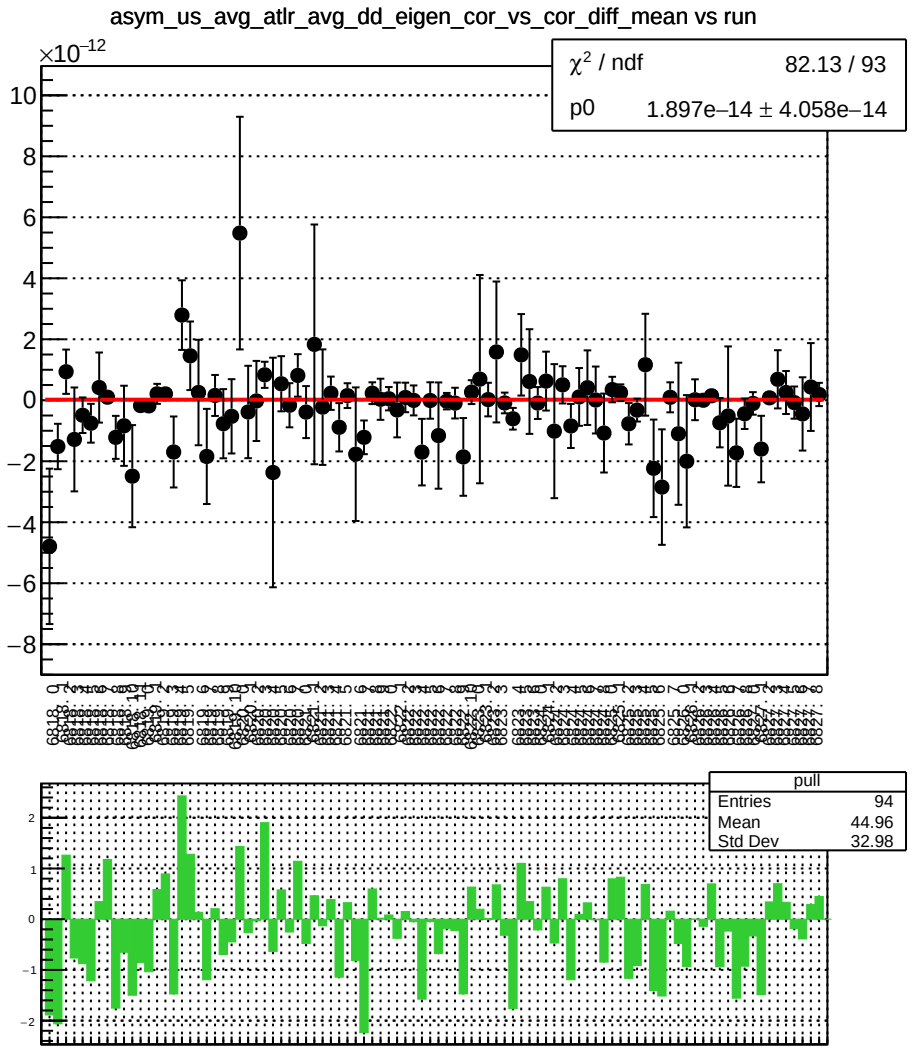

pull1D
Entries 94
Mean 0.004726
Std Dev 0.9561

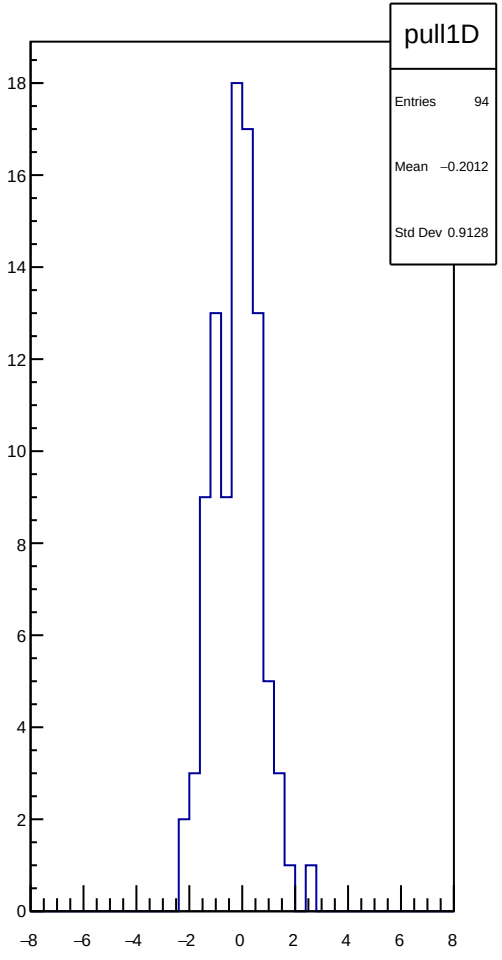

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.216e+04 / 93
p0 248.7 ± 0.1863
360
340
320
300
280
260
240
220
200

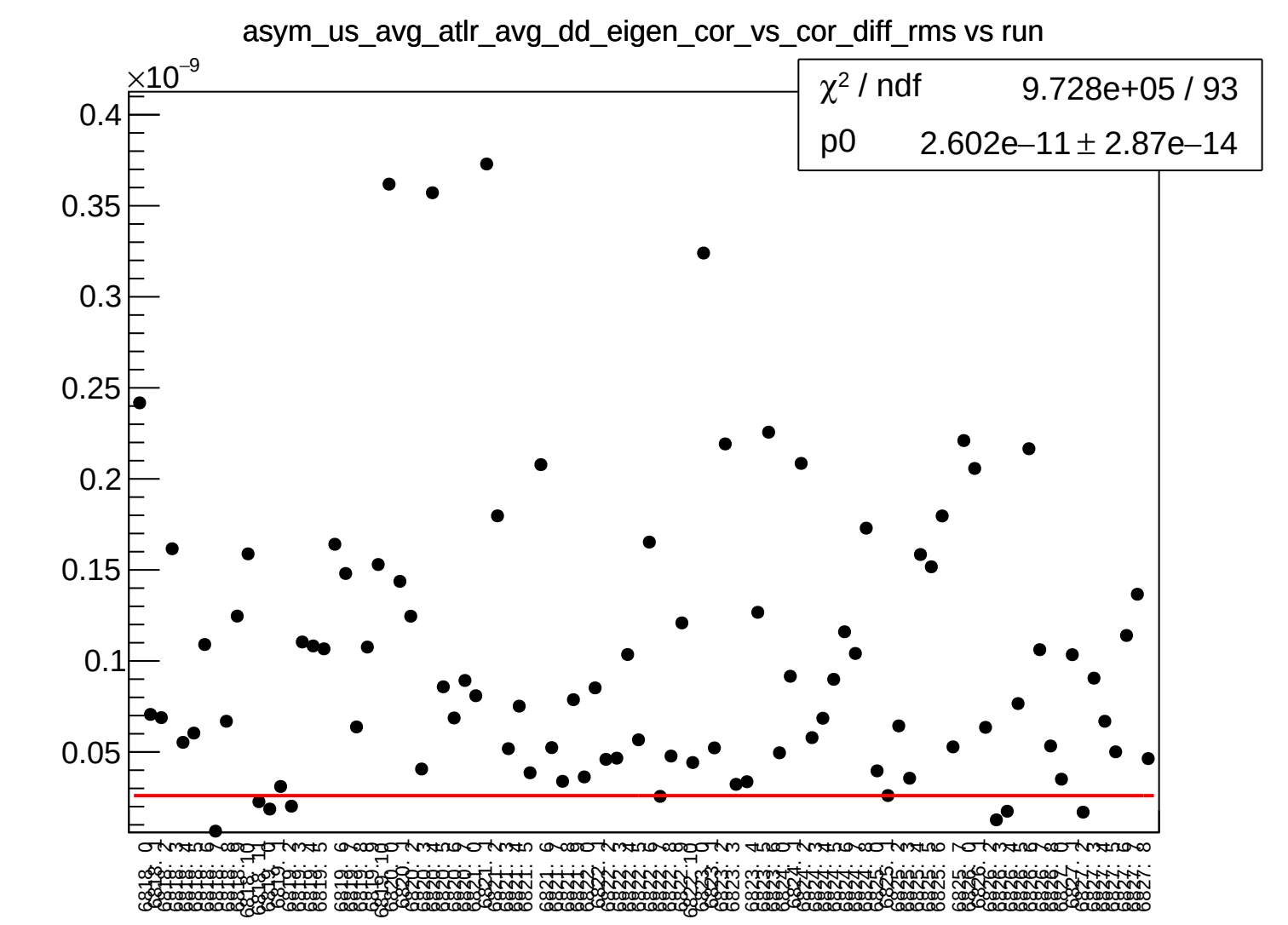

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.92 / 93
p0 −0.1697 ± 0.2634
pull
Entries 94
Mean −185.8
Std Dev 0

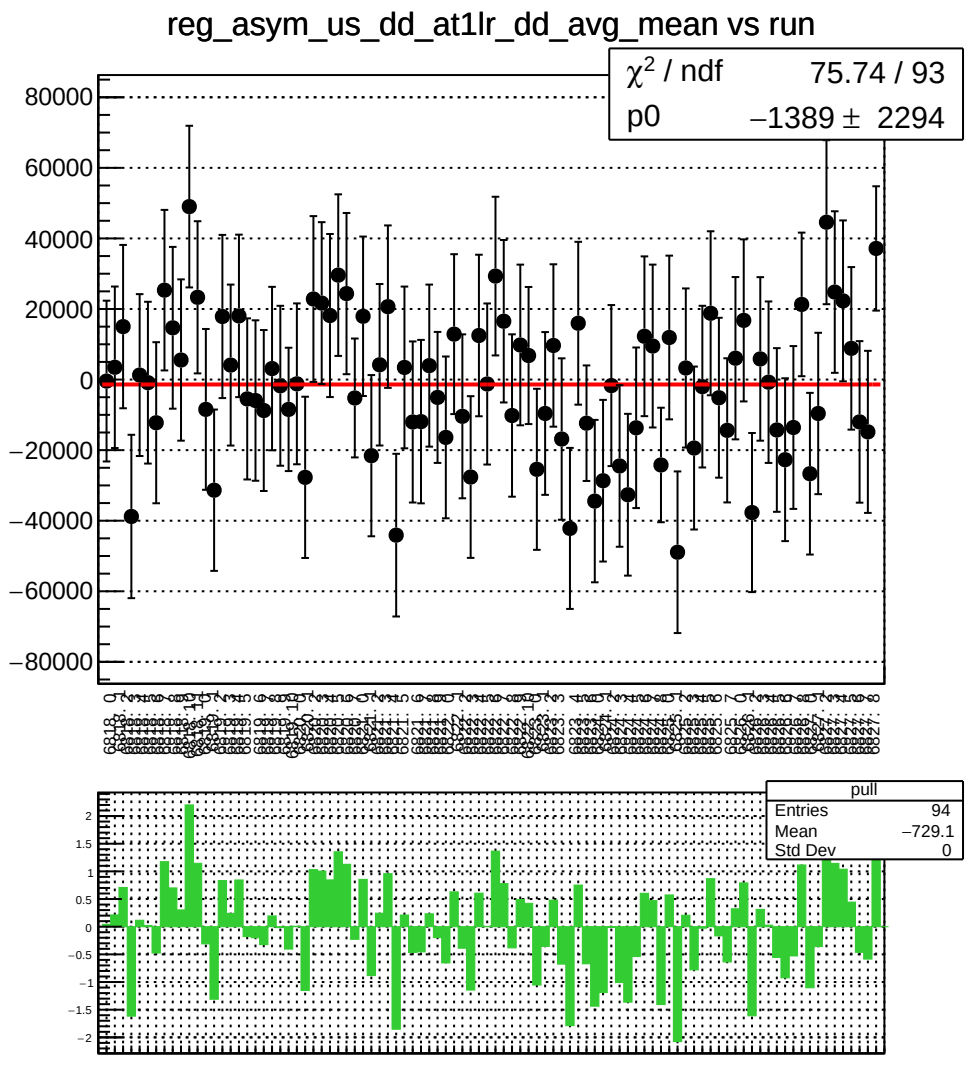

pull1D
Entries 94
Mean 0.004726
Std Dev 0.9561

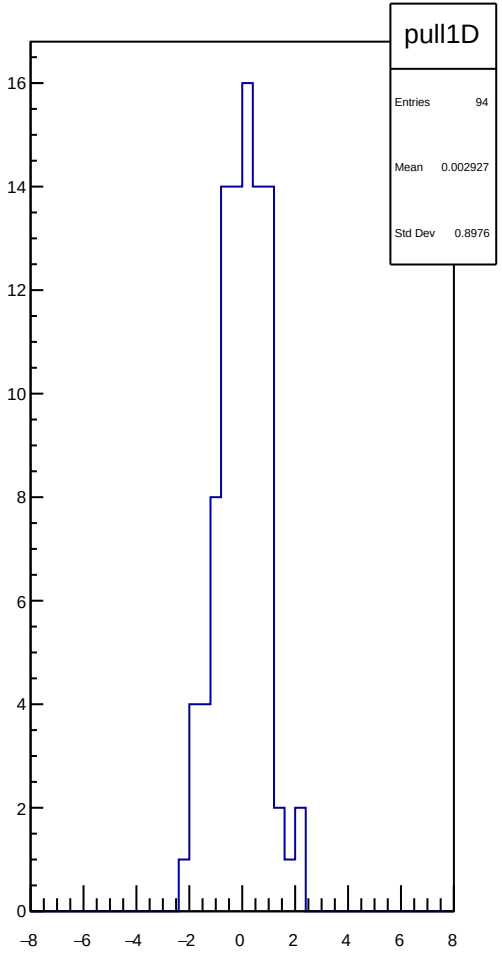

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.216e+04 / 93
p0 248.7 ± 0.1863
360
340
320
300
280
260
240
220
200

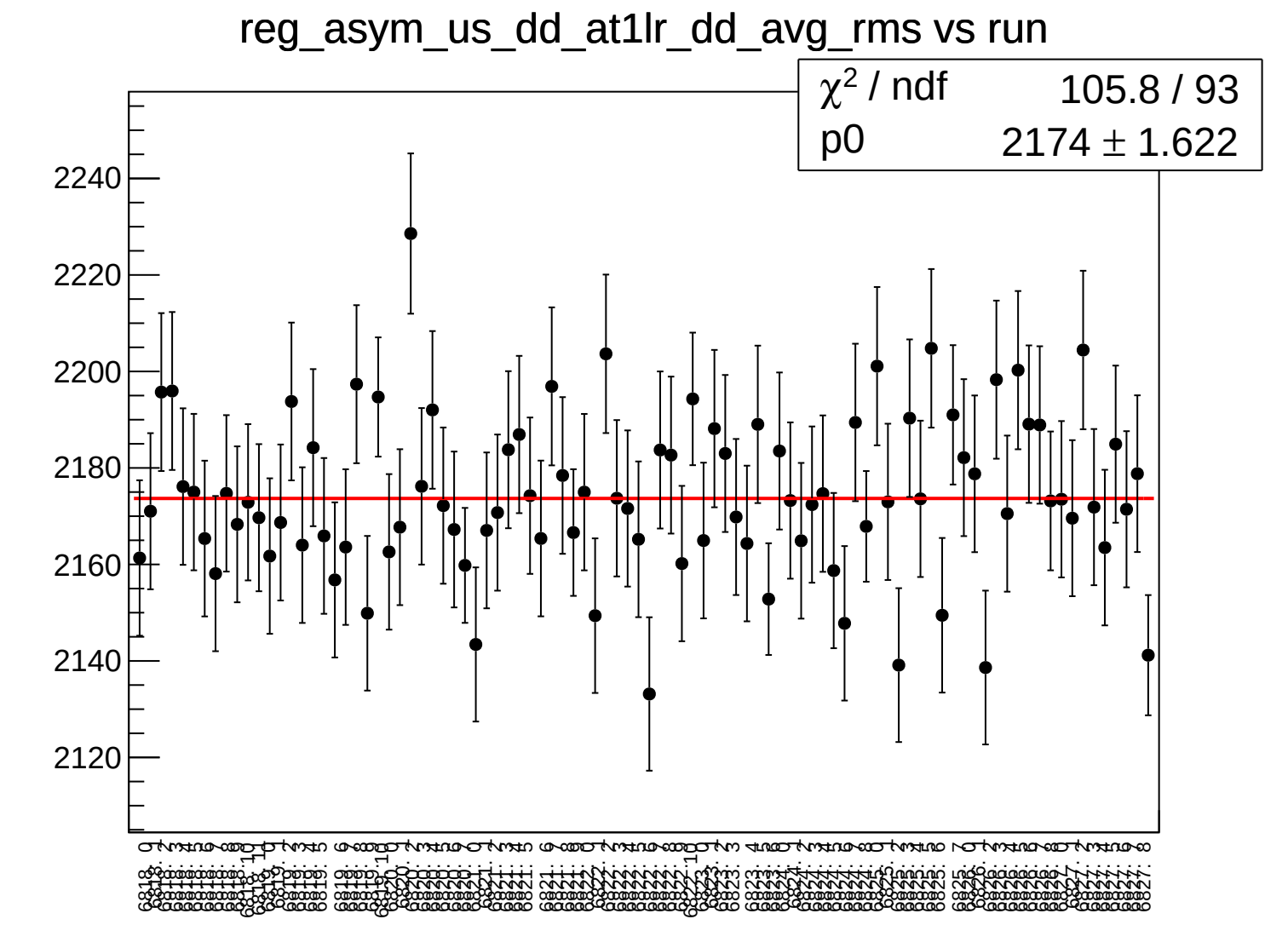

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.13 / 93
p0 1.897e−14 ± 4.058e−14
pull
Entries 94
Mean 44.96
Std Dev 32.98

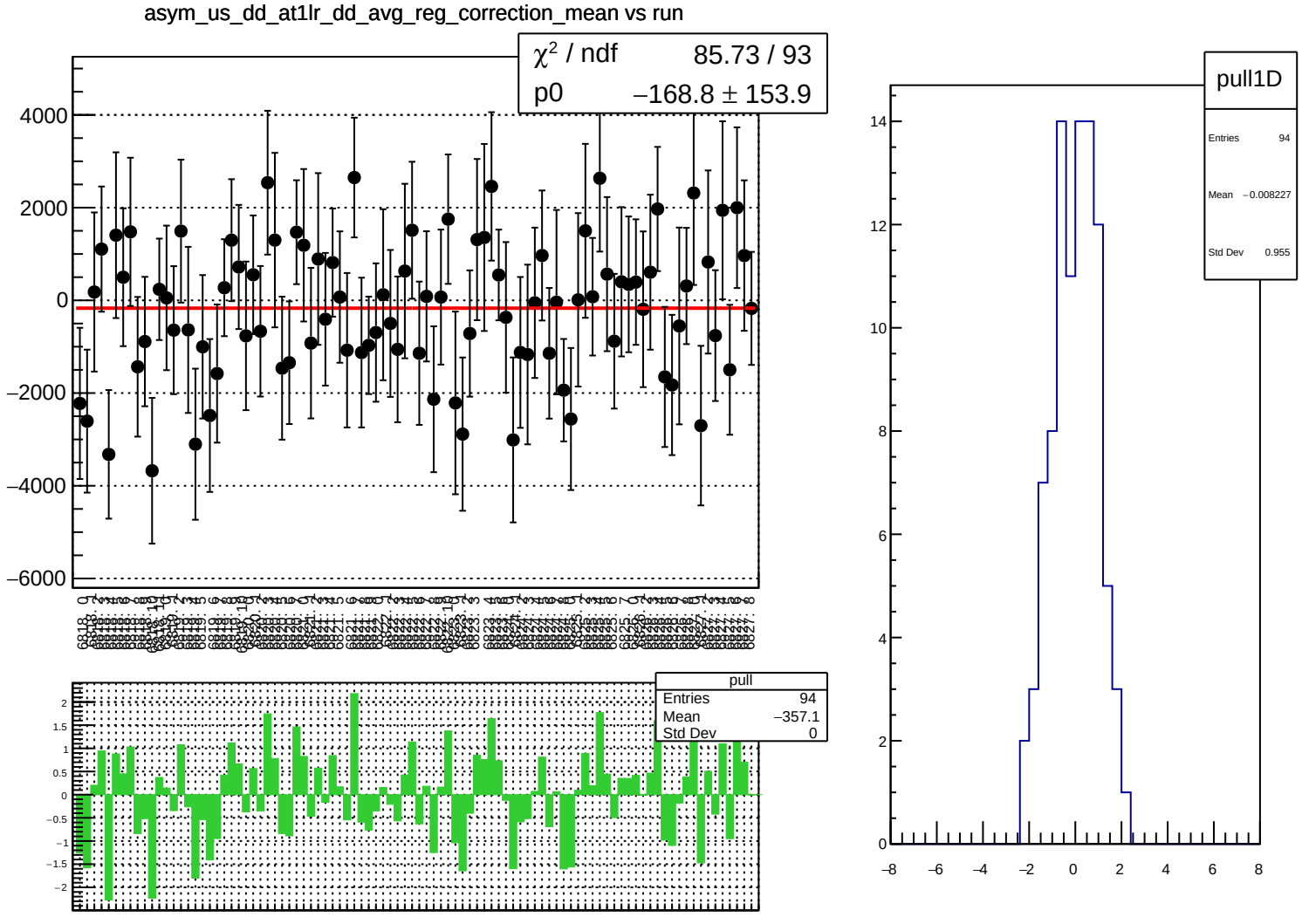

pull1D
Entries 94
Mean −0.2012
Std Dev 0.9128

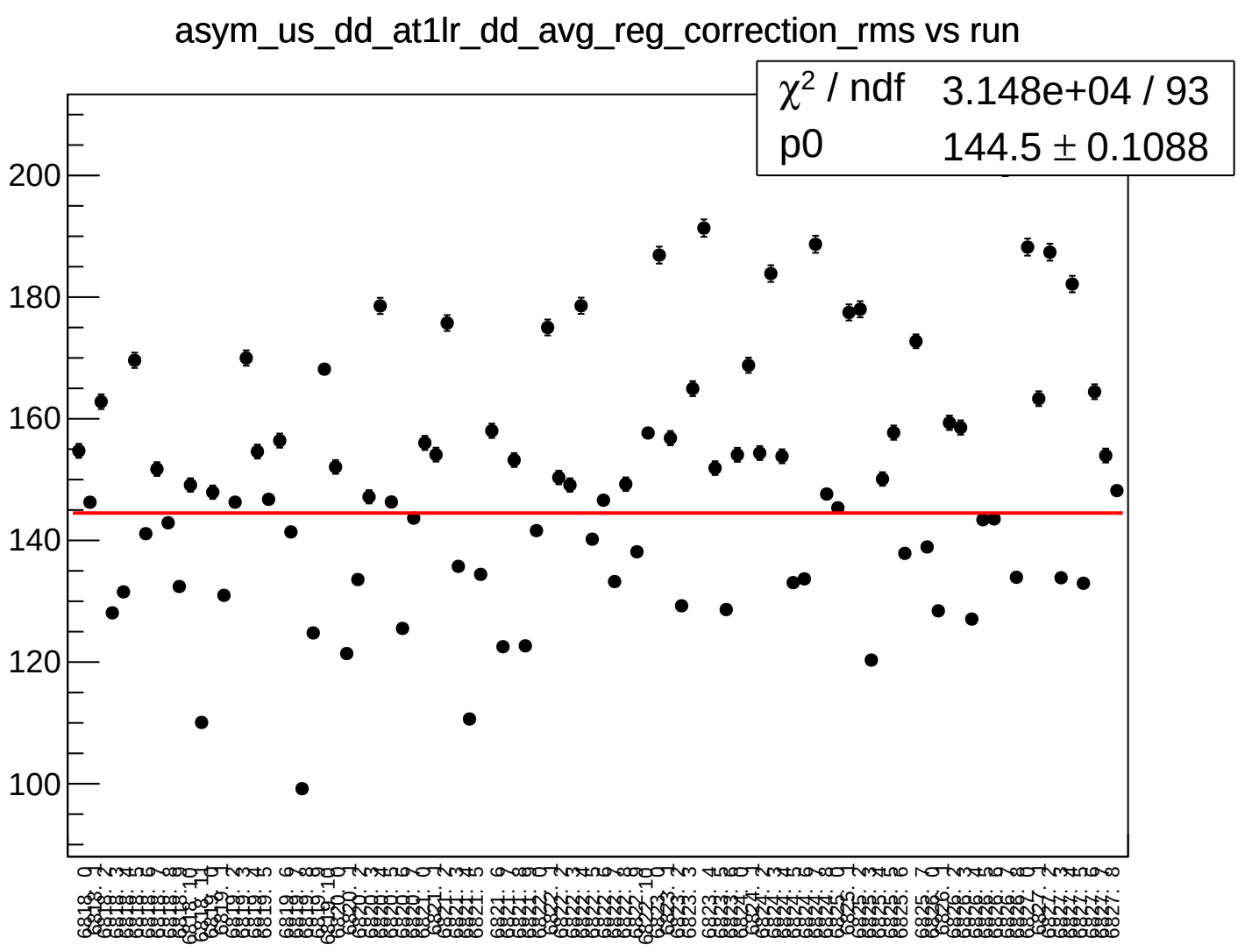

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.728e+05 / 93
p0 2.602e−11 ± 2.87e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

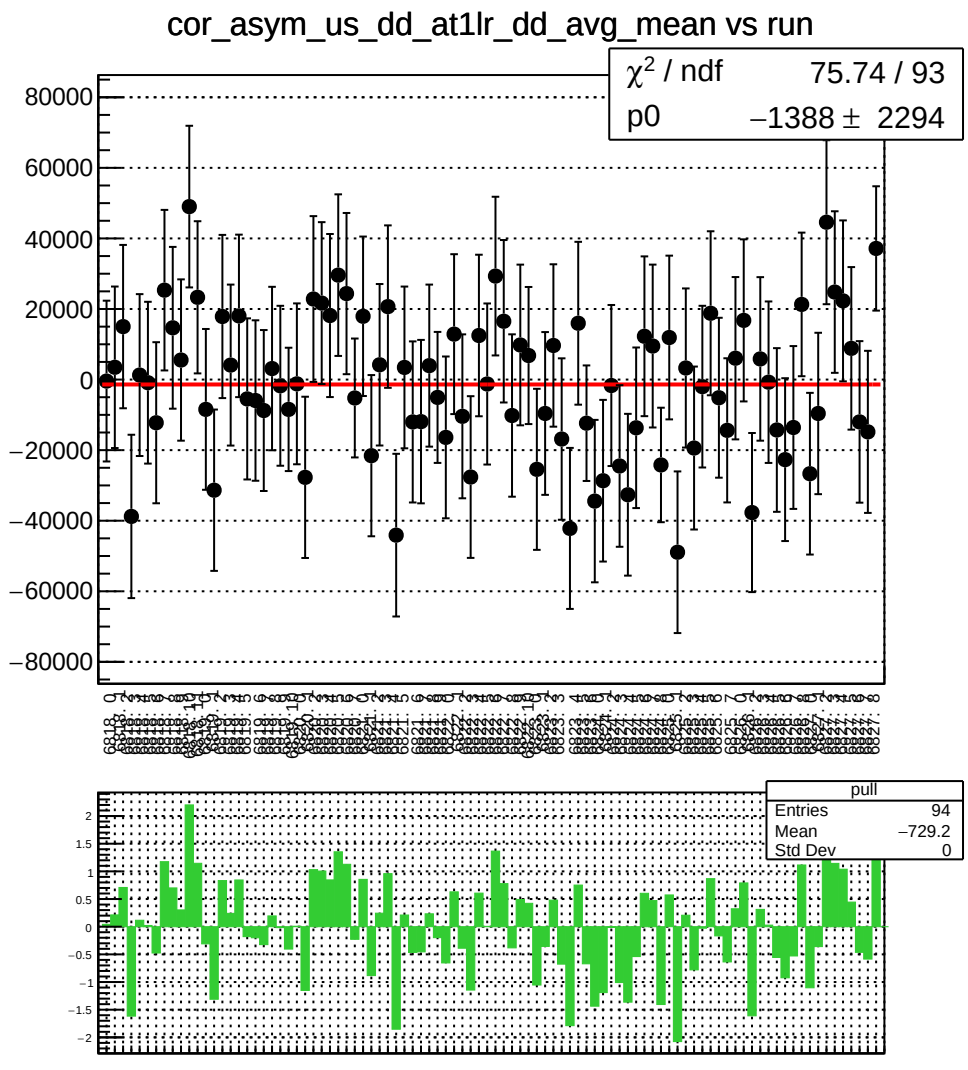

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.74 / 93
p0 −1389 ± 2294
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −729.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

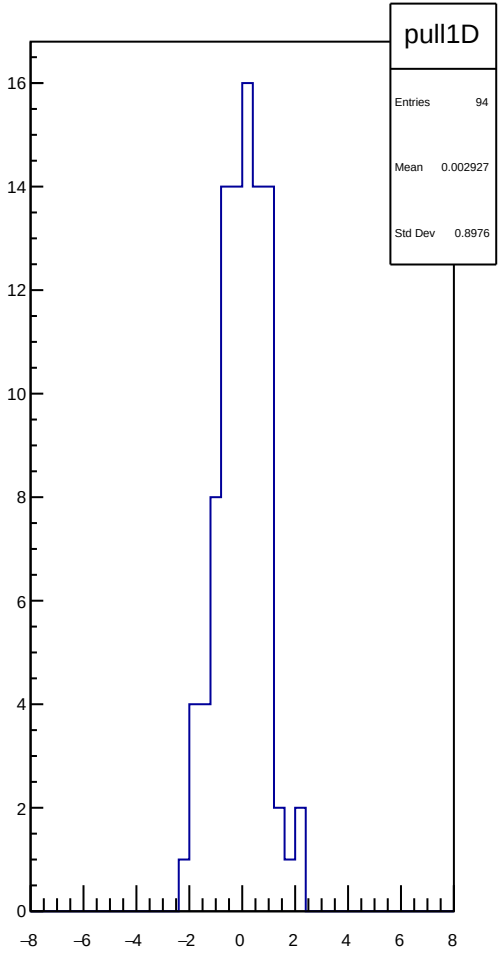

pull1D
Entries 94
Mean 0.002927
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

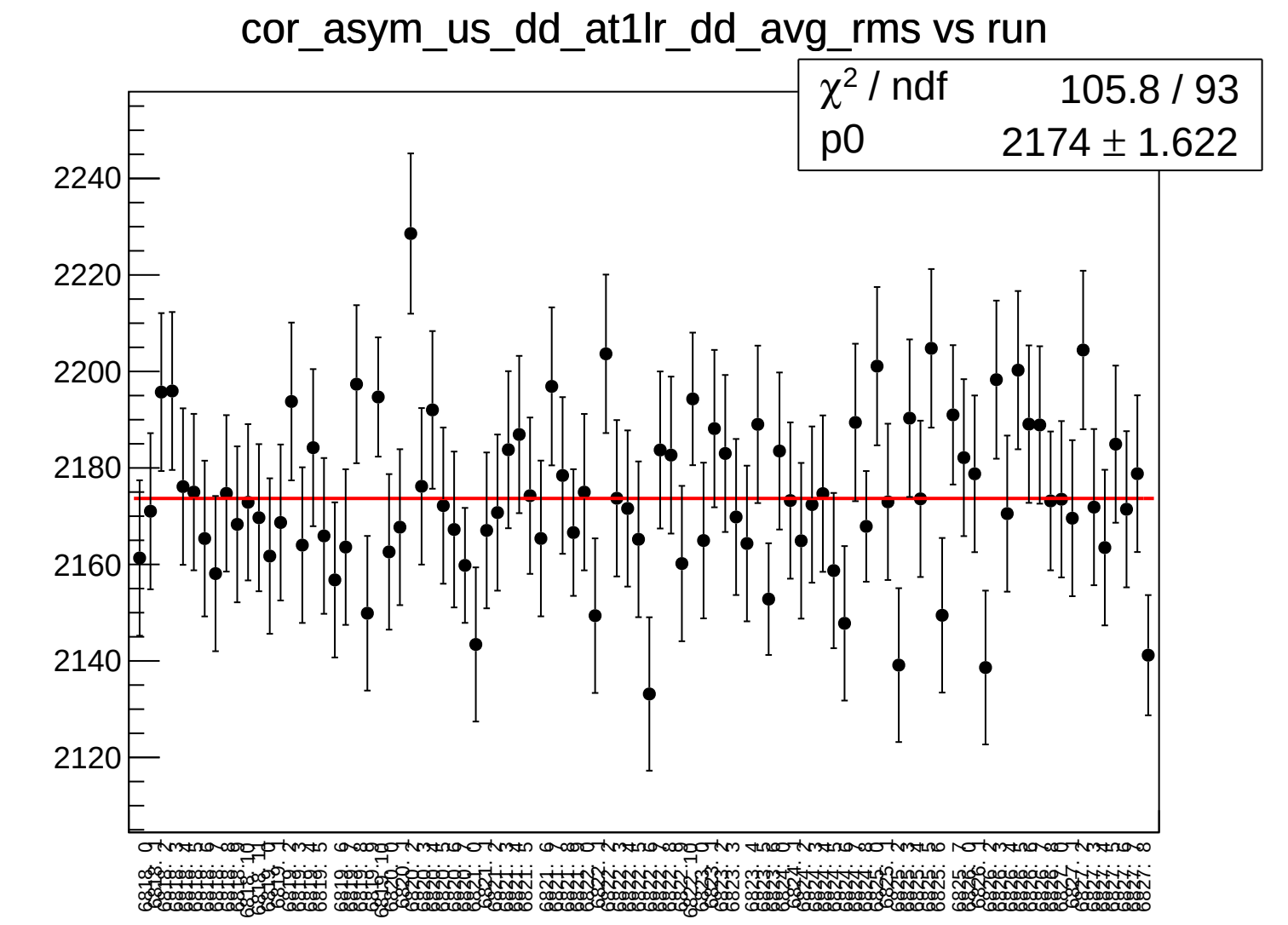

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.8 / 93
p0 2174 ± 1.622
2240
2220
2200
2180
2160
2140
2120

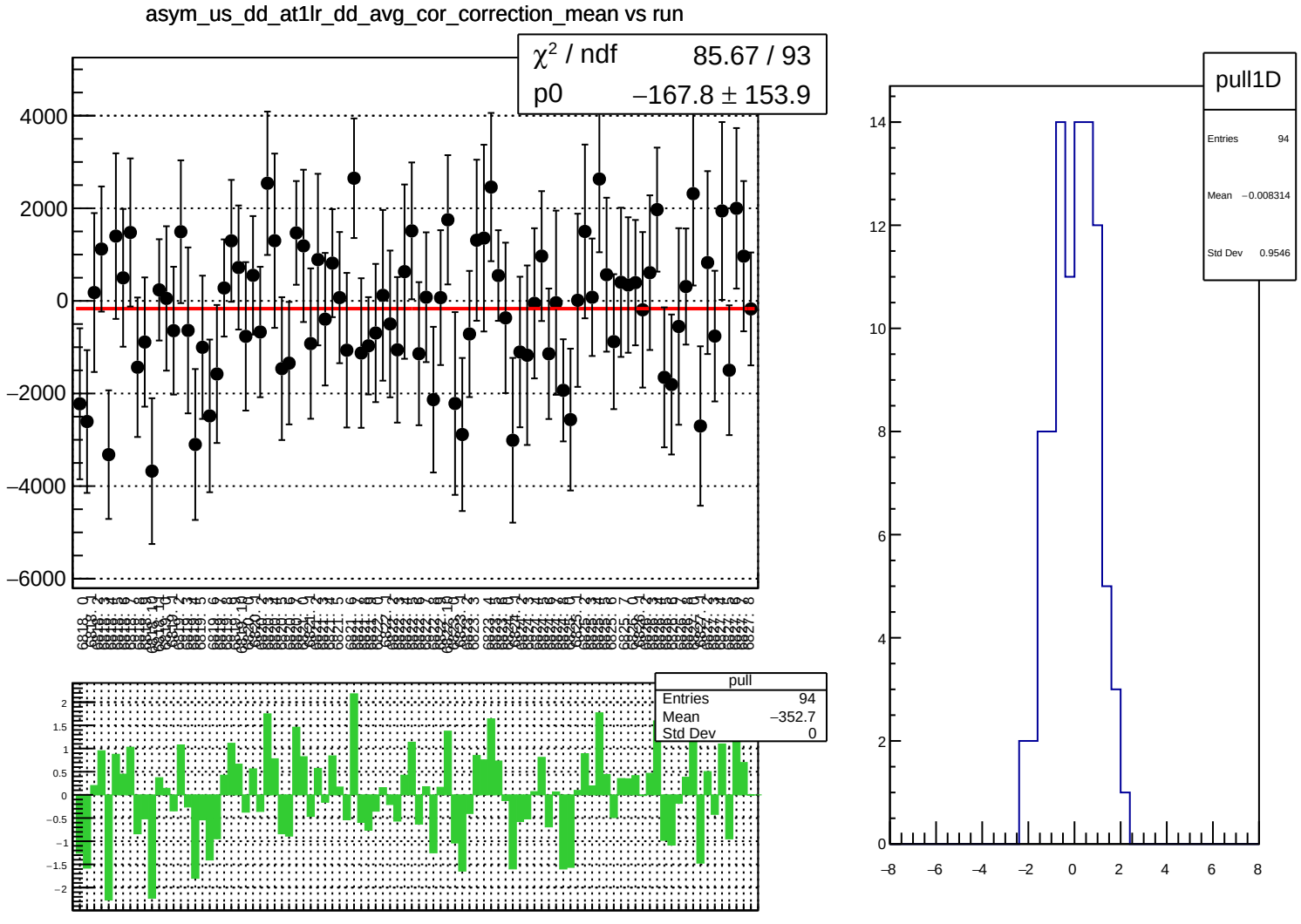

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 85.73 / 93
p0 −168.8 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −357.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008227
Std Dev 0.955
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

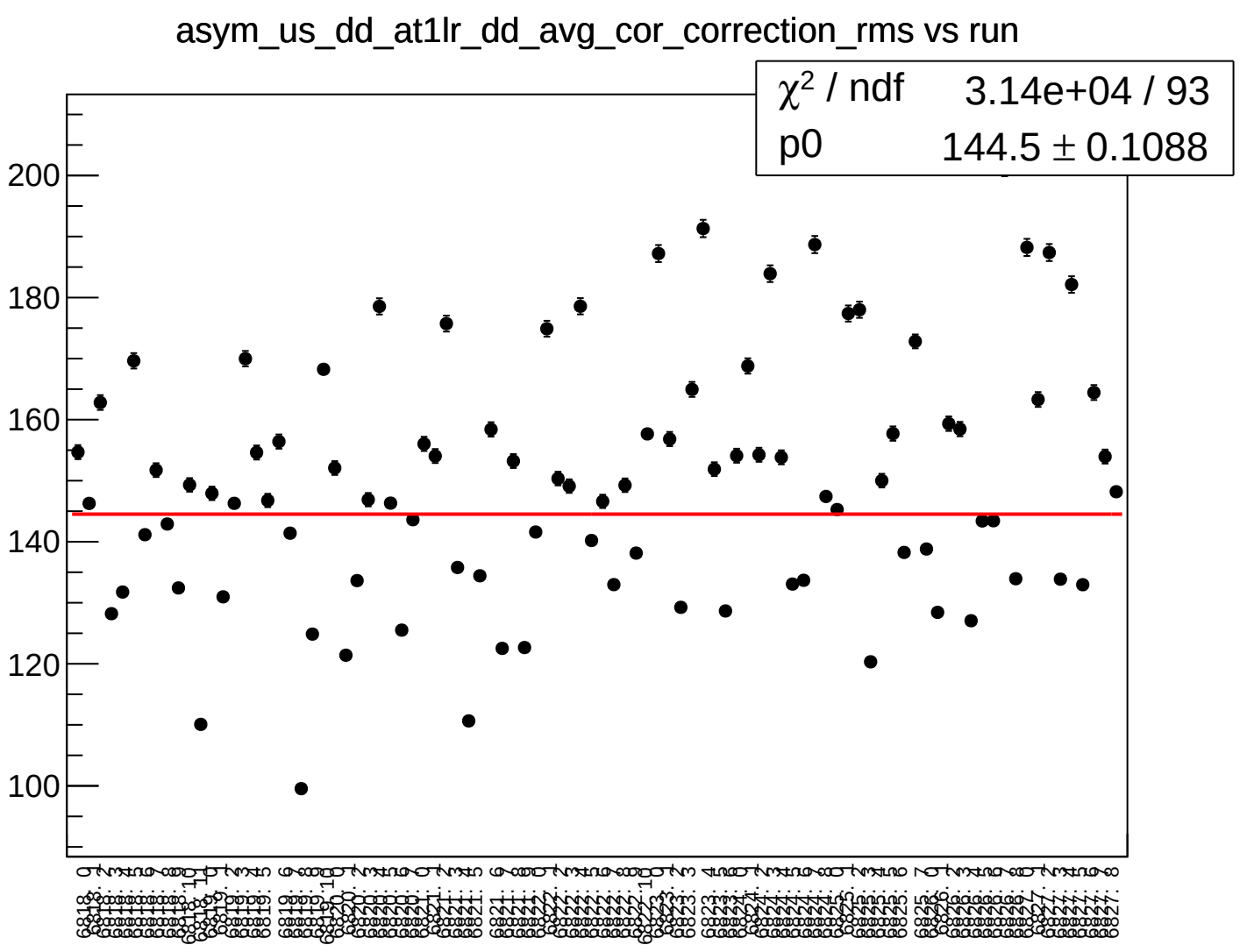

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3.148e+04 / 93
p0 144.5 ± 0.1088
200
180
160
140
120
100

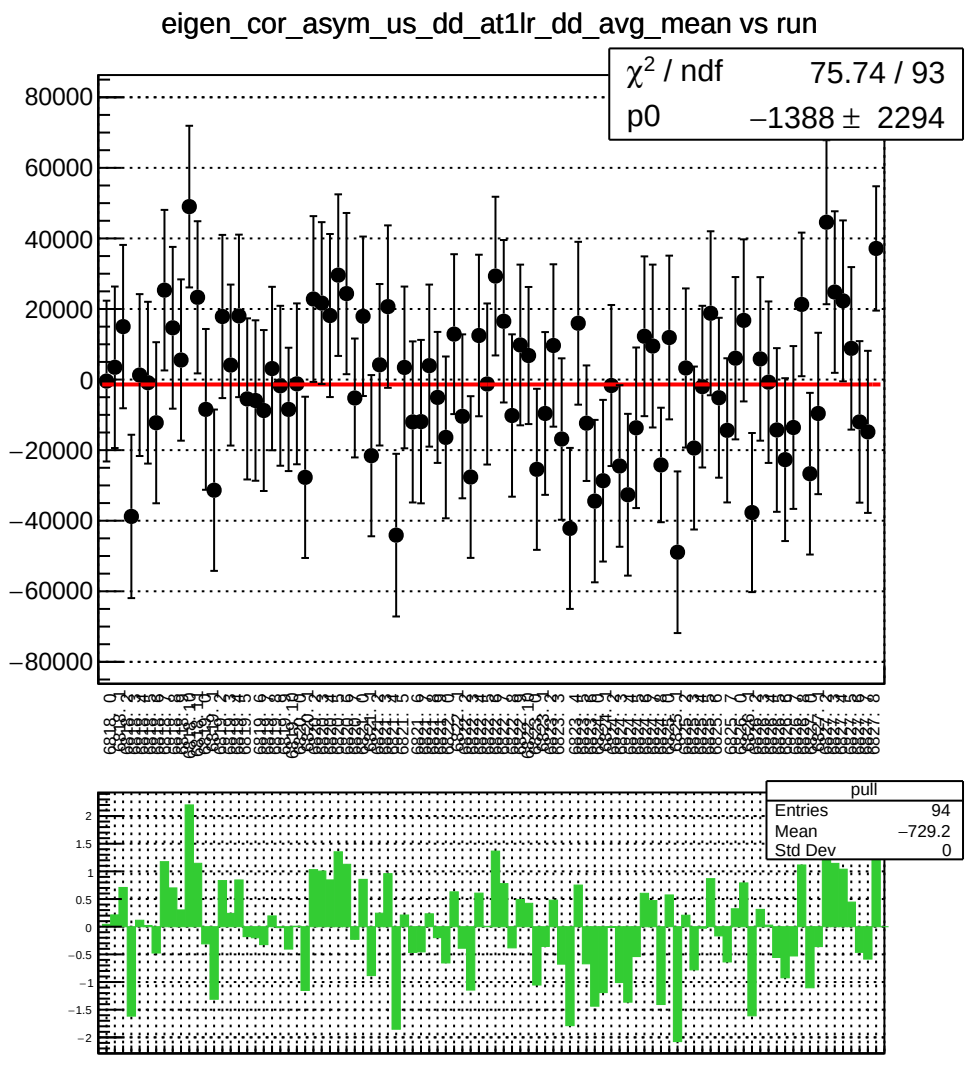

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.74 / 93
p0 −1388 ± 2294
pull
Entries 94
Mean −729.2
Std Dev 0

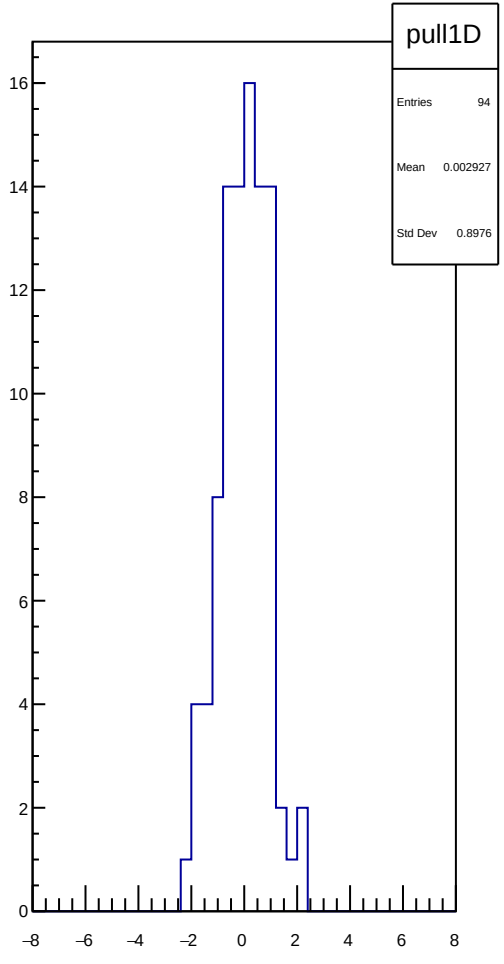

pull1D
Entries 94
Mean 0.002927
Std Dev 0.8976

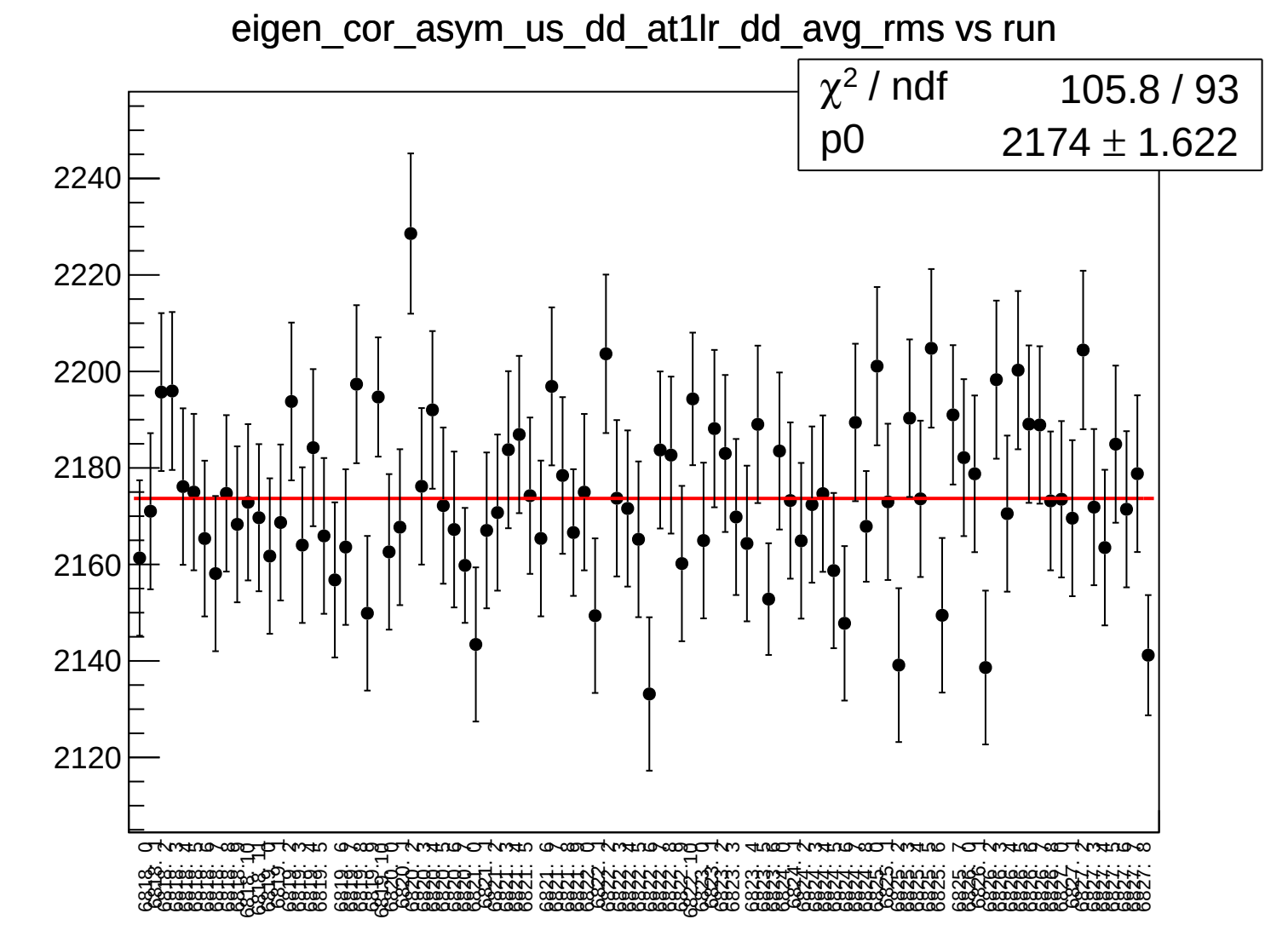

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.8 / 93
p0 2174 ± 1.622
2240
2220
2200
2180
2160
2140
2120

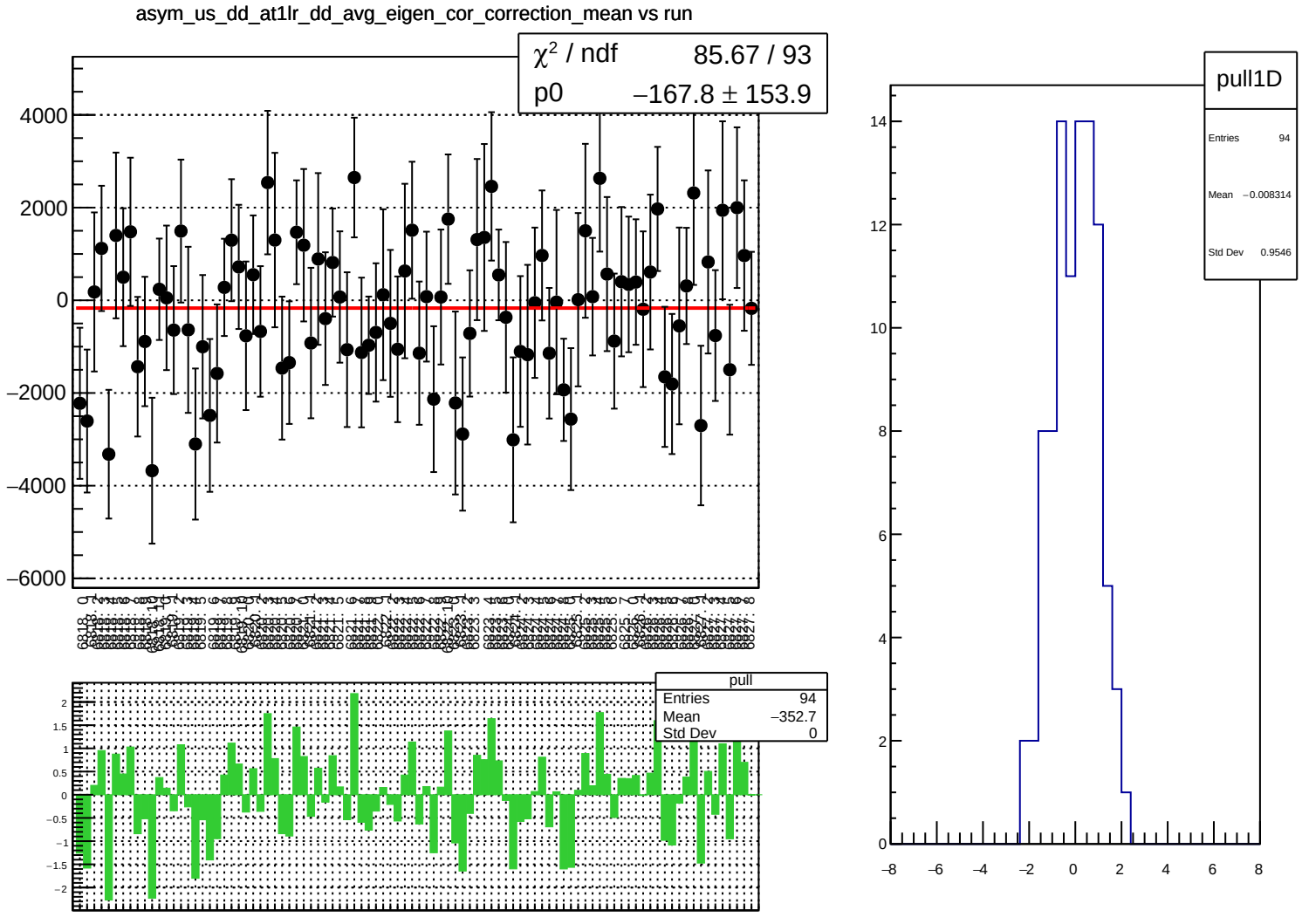

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 85.67 / 93
p0 −167.8 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −352.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008314
Std Dev 0.9546
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

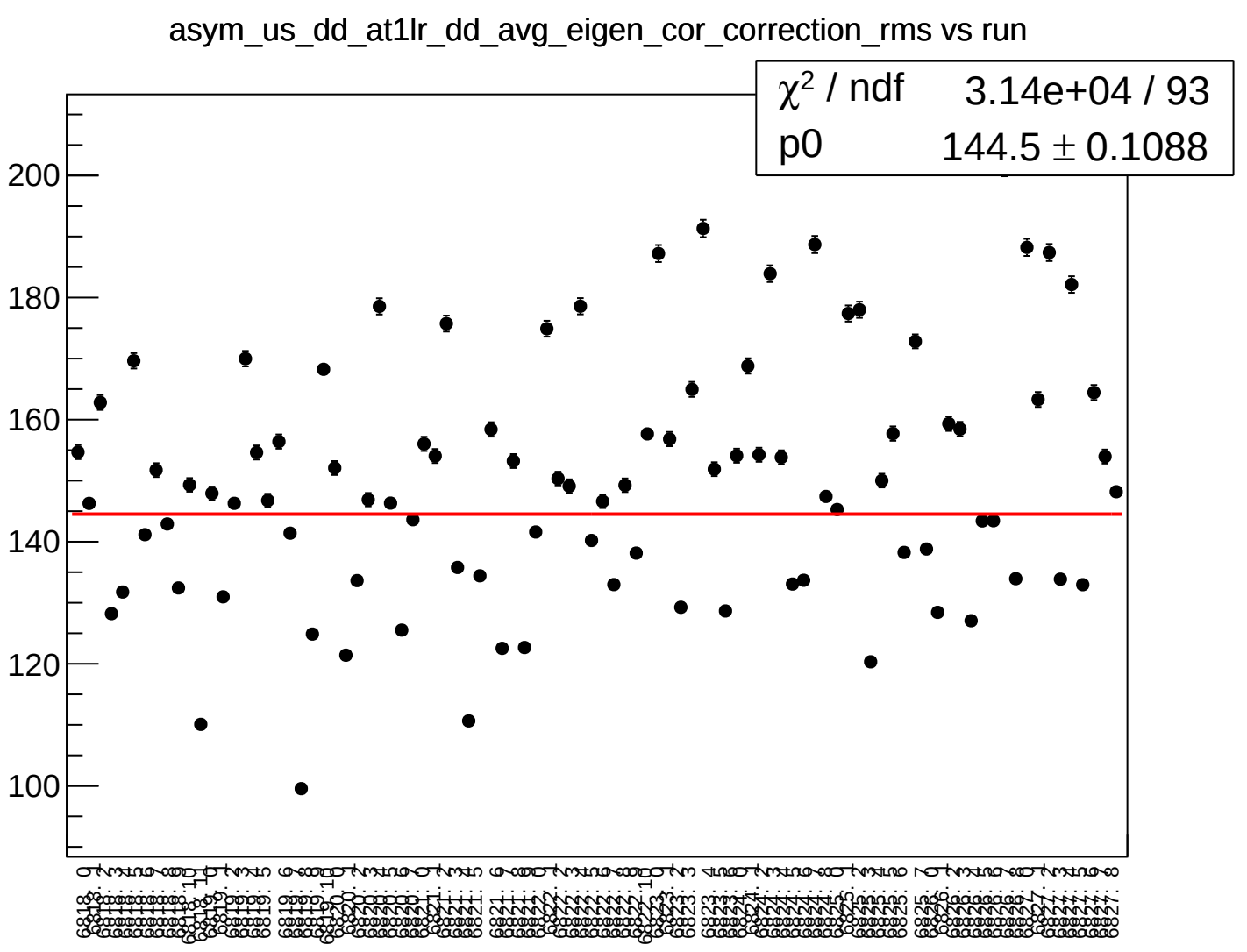

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 3.14e+04 / 93
p0 144.5 ± 0.1088
200
180
160
140
120
100

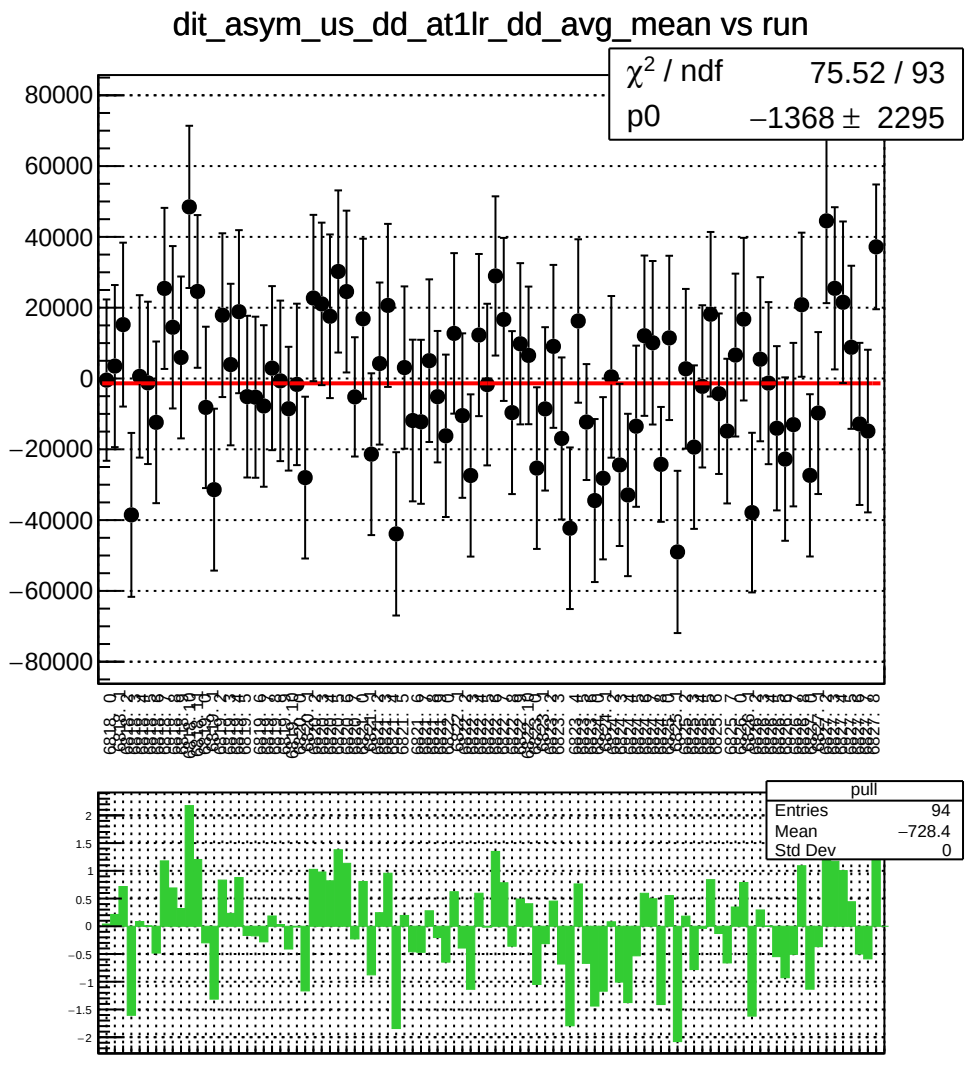

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.74 / 93
p0 −1388 ± 2294
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −729.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

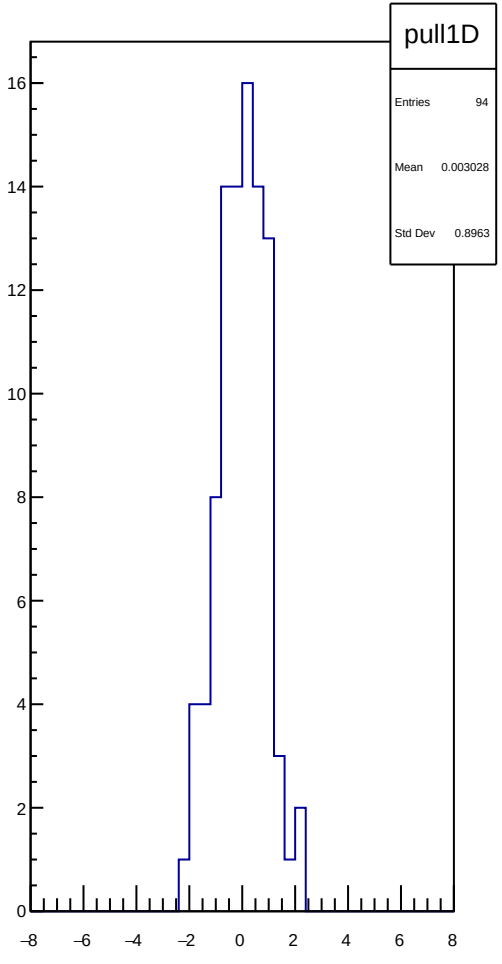

pull1D
Entries 94
Mean 0.002927
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

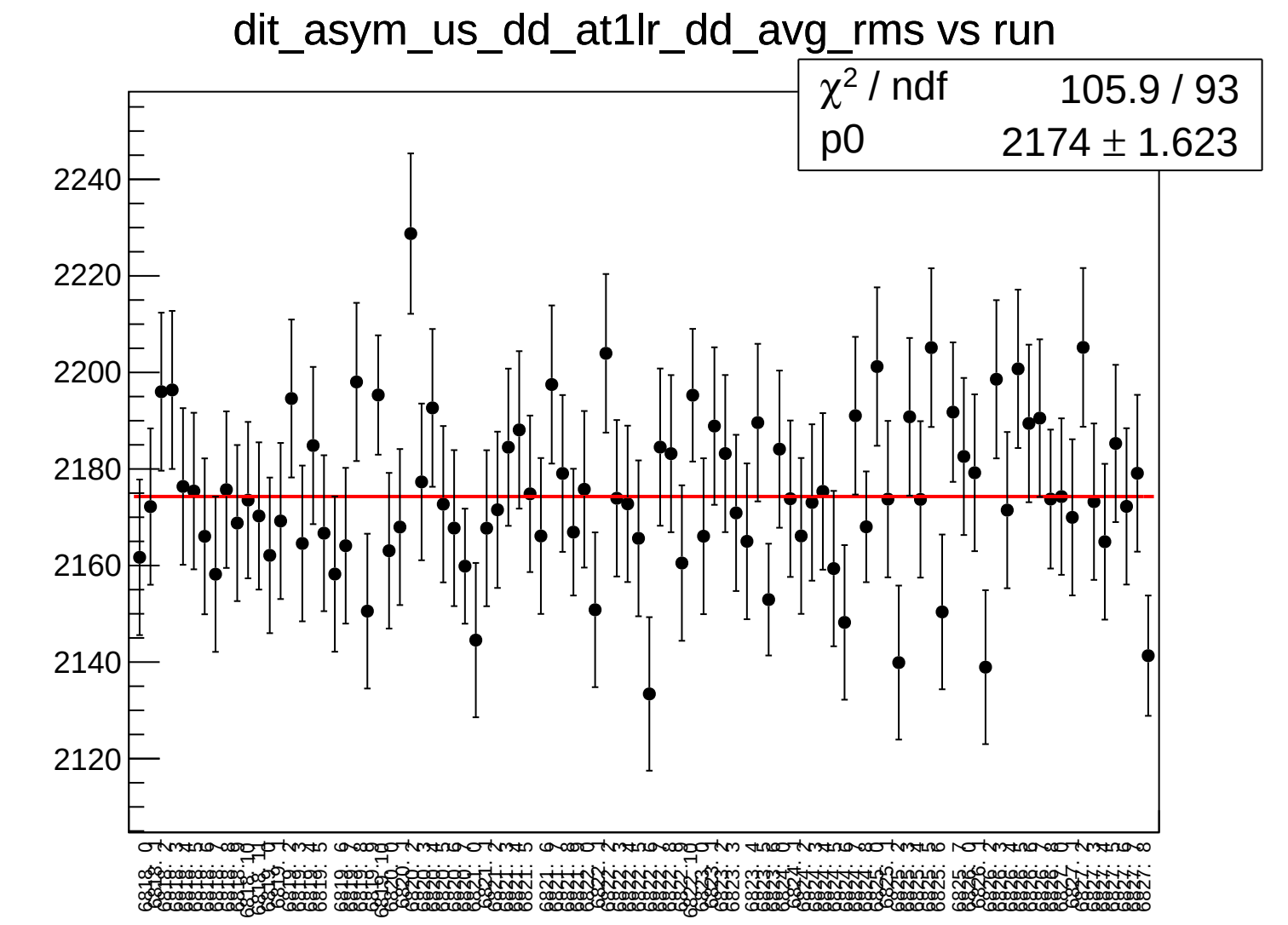

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.8 / 93
p0 2174 ± 1.622
2240
2220
2200
2180
2160
2140
2120

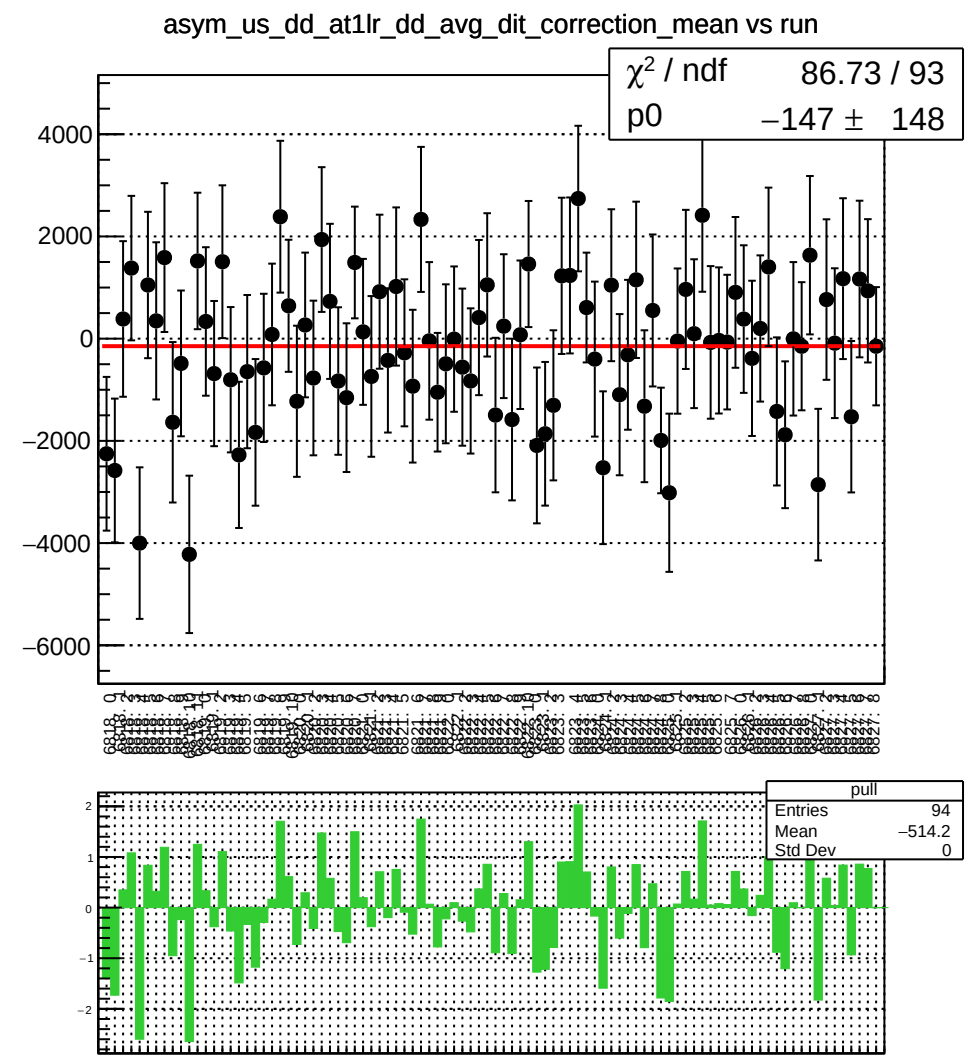

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.67 / 93
p0 −167.8 ± 153.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −352.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.008314
Std Dev 0.9546
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

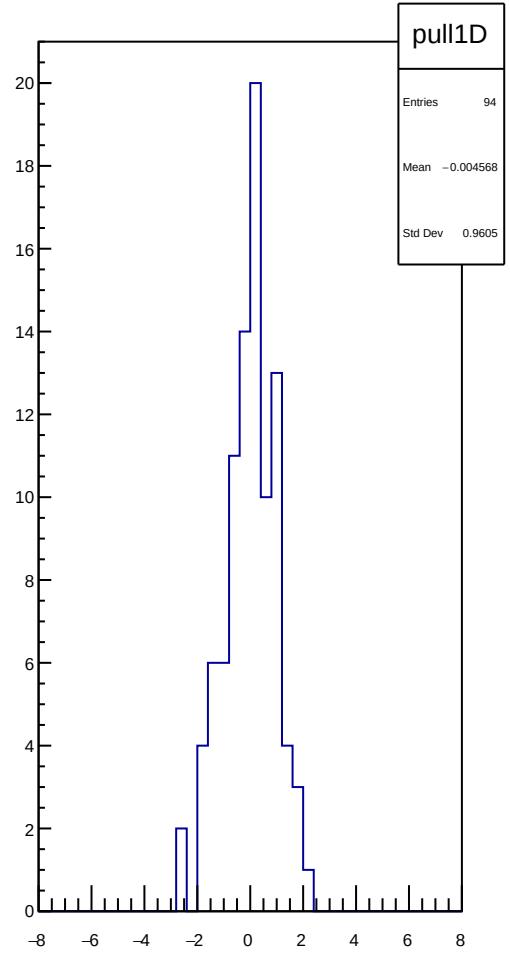

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.14e+04 / 93
p0 144.5 ± 0.1088
200
180
160
140
120
100

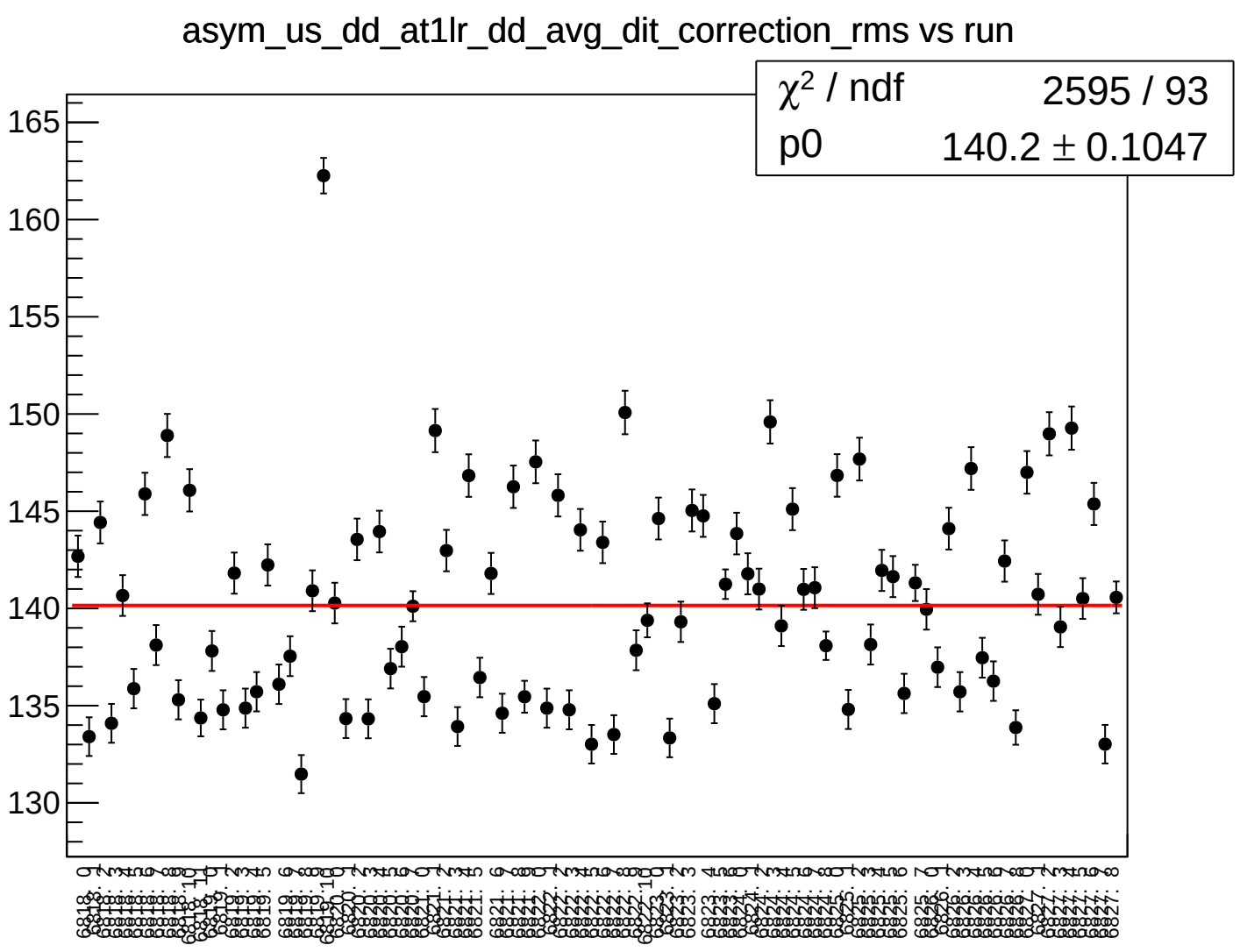

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.52 / 93
p0 −1368 ± 2295
pull
Entries 94
Mean −728.4
Std Dev 0

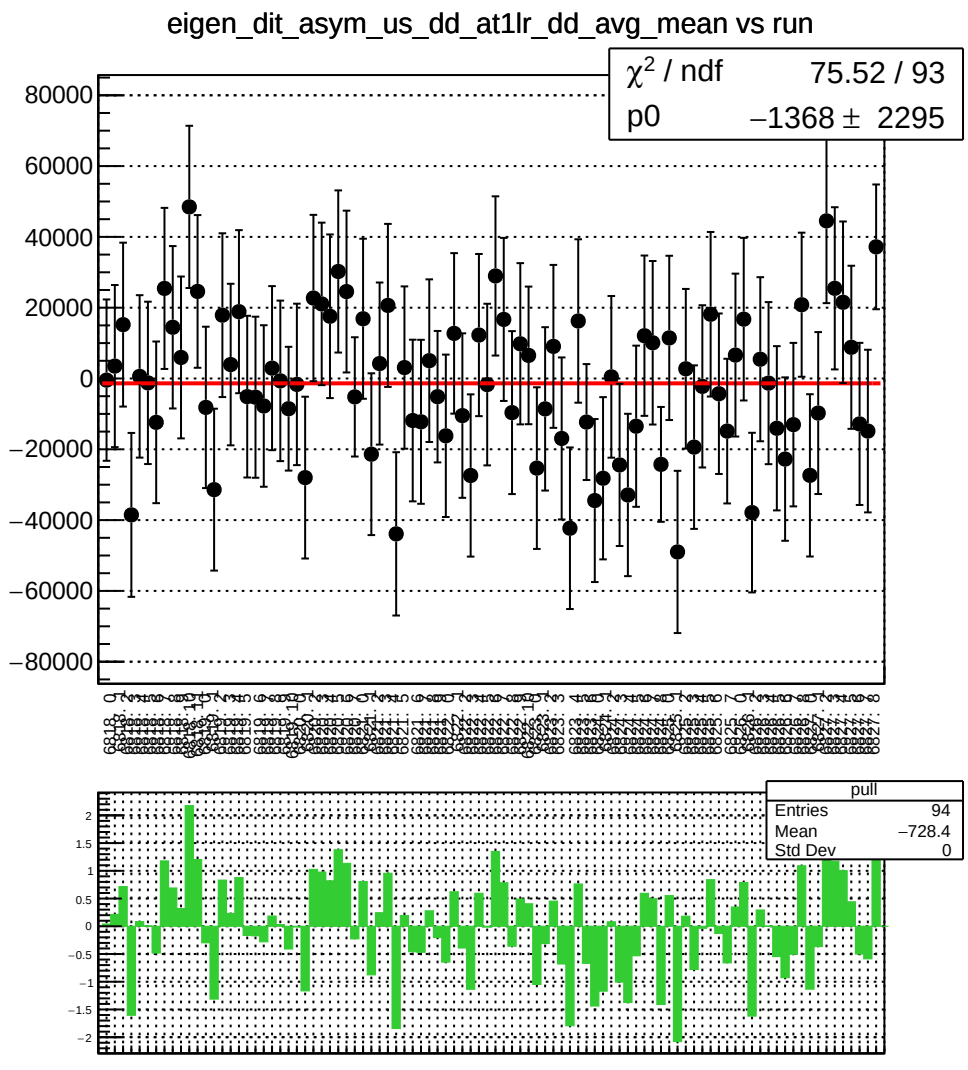

pull1D
Entries 94
Mean 0.003028
Std Dev 0.8963

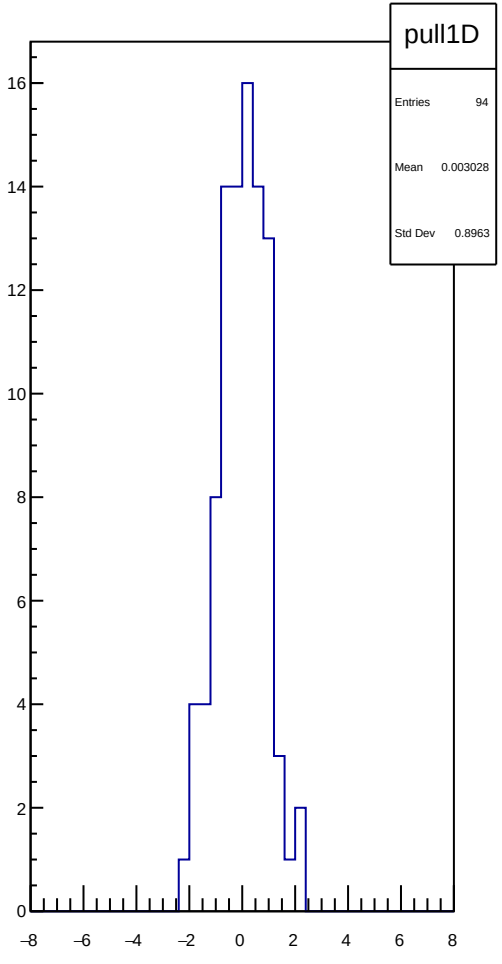

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.9 / 93
p0 2174 ± 1.623
2240
2220
2200
2180
2160
2140
2120

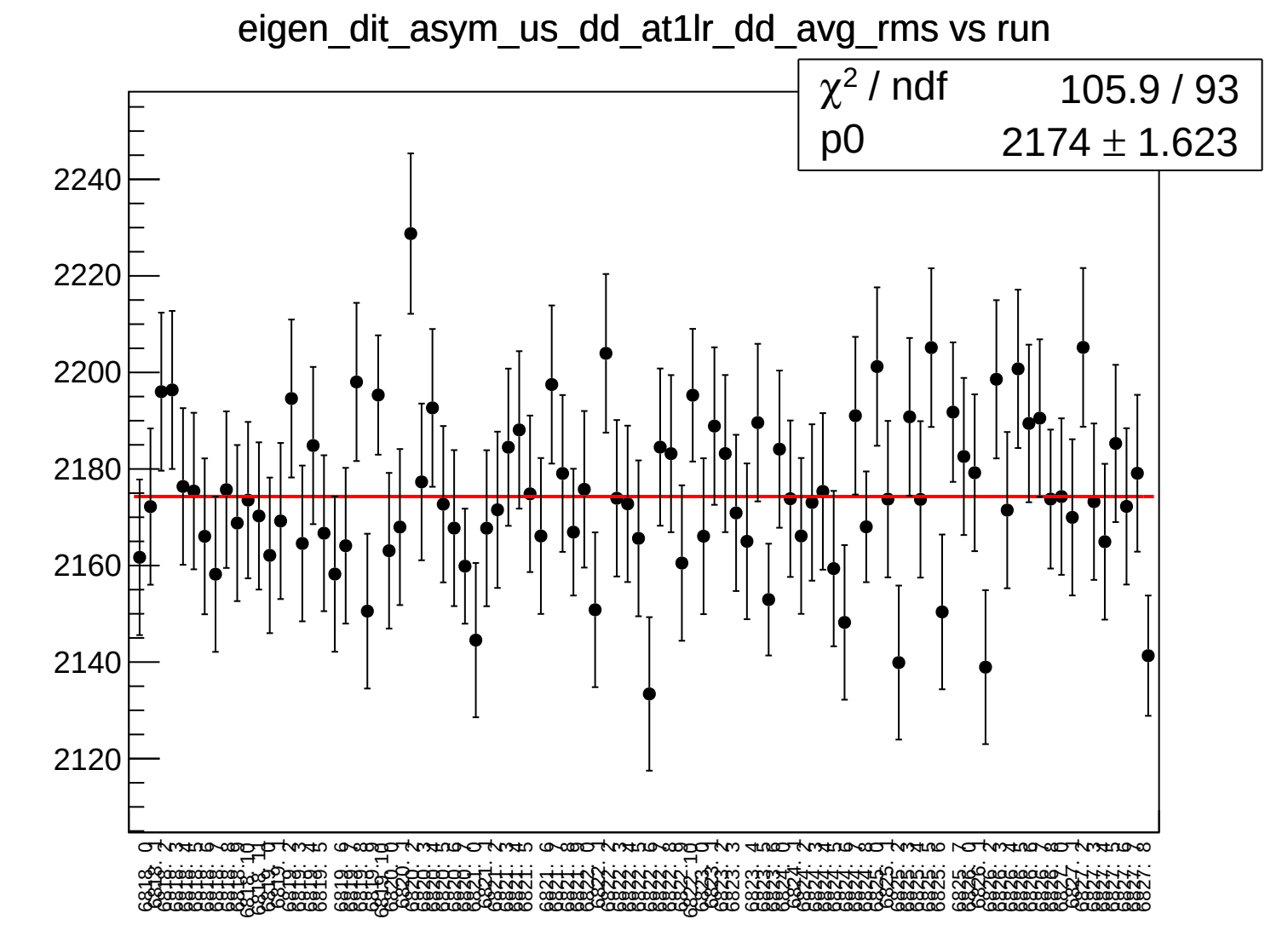

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 86.73 / 93
p0 −147 ± 148
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −514.2
Std Dev 0
2
1
0
−1
−2

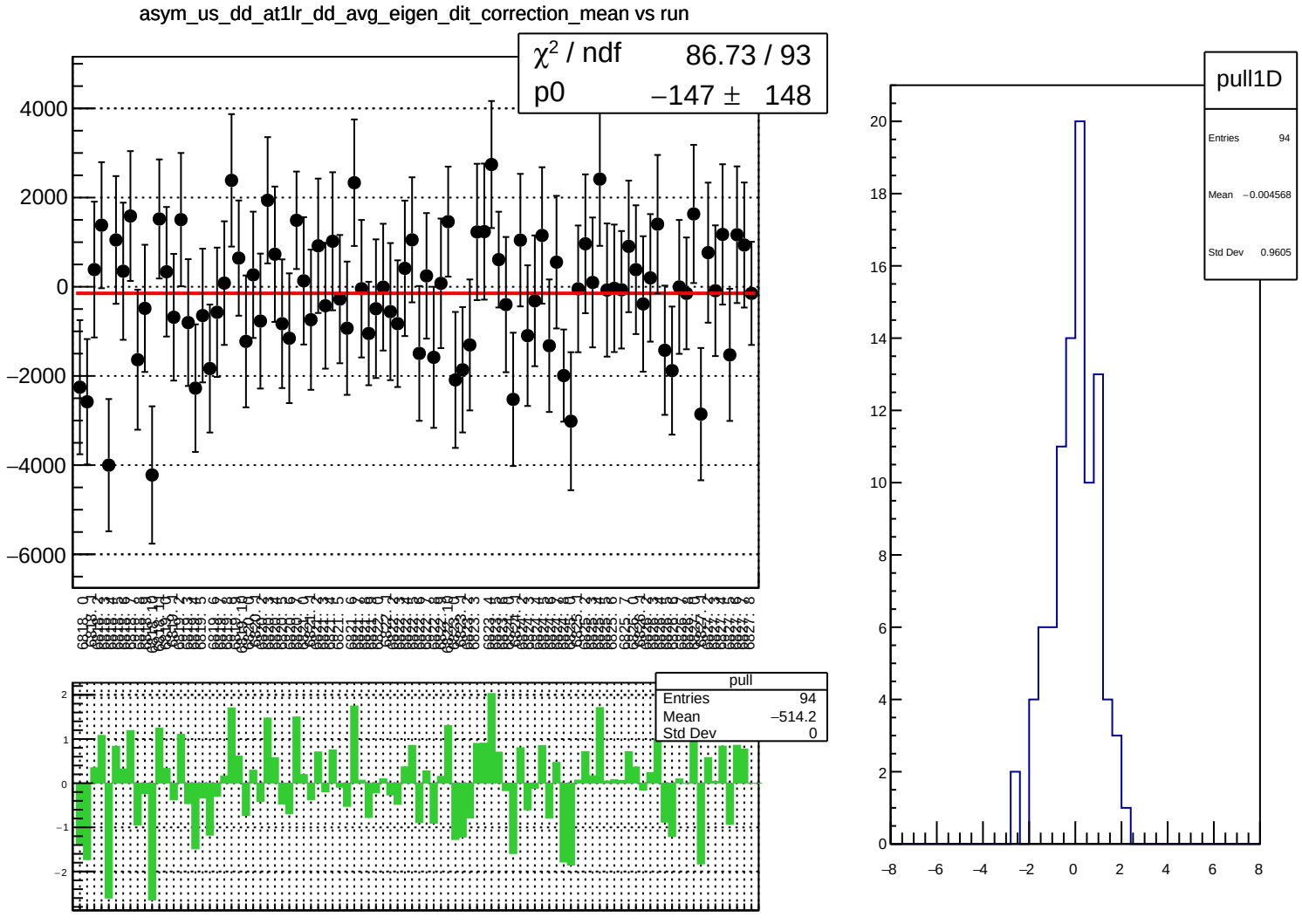

pull1D
Entries 94
Mean −0.004568
Std Dev 0.9605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

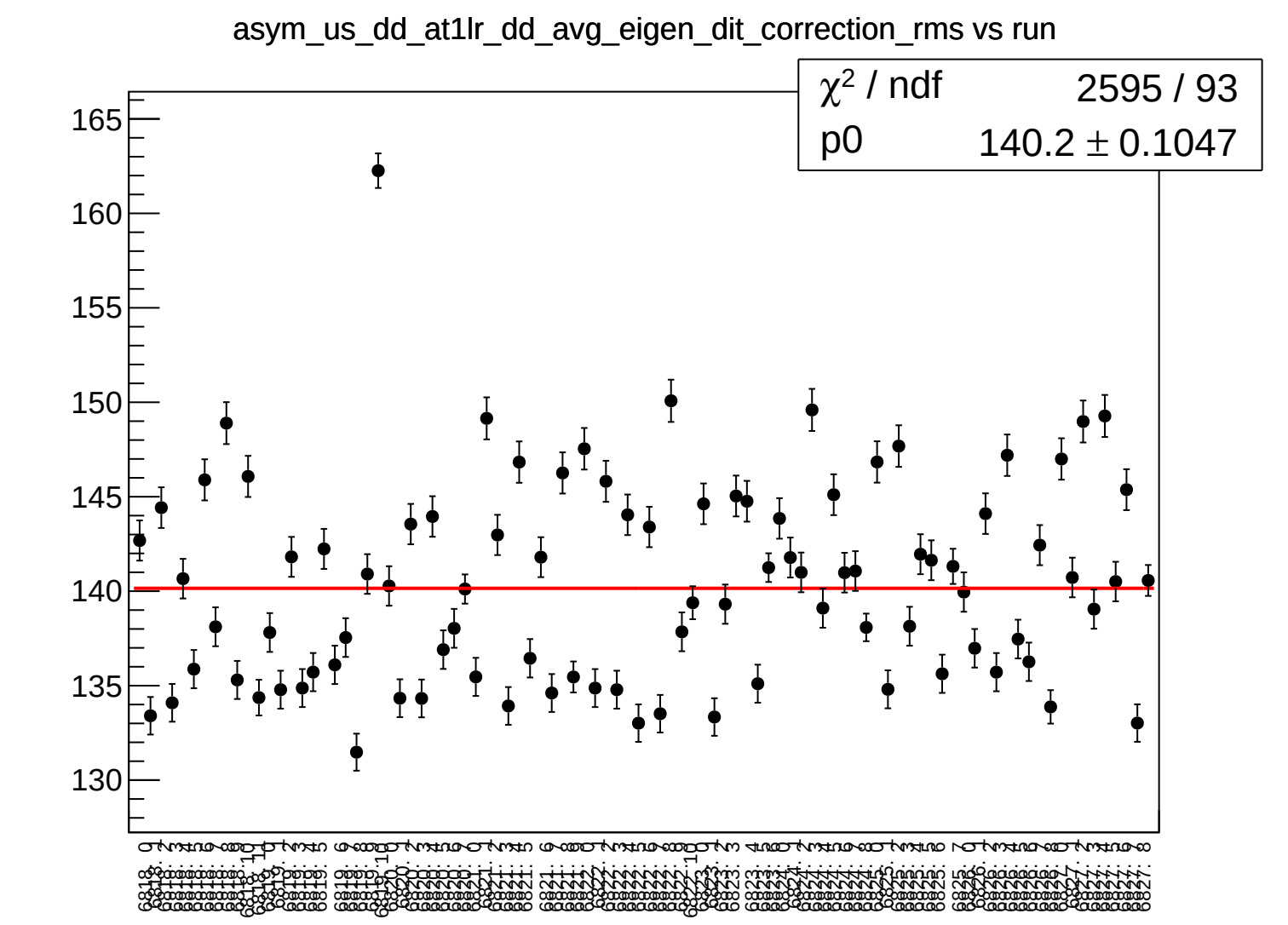

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2595 / 93
p0 140.2 ± 0.1047
165
160
155
150
145
140
135
130

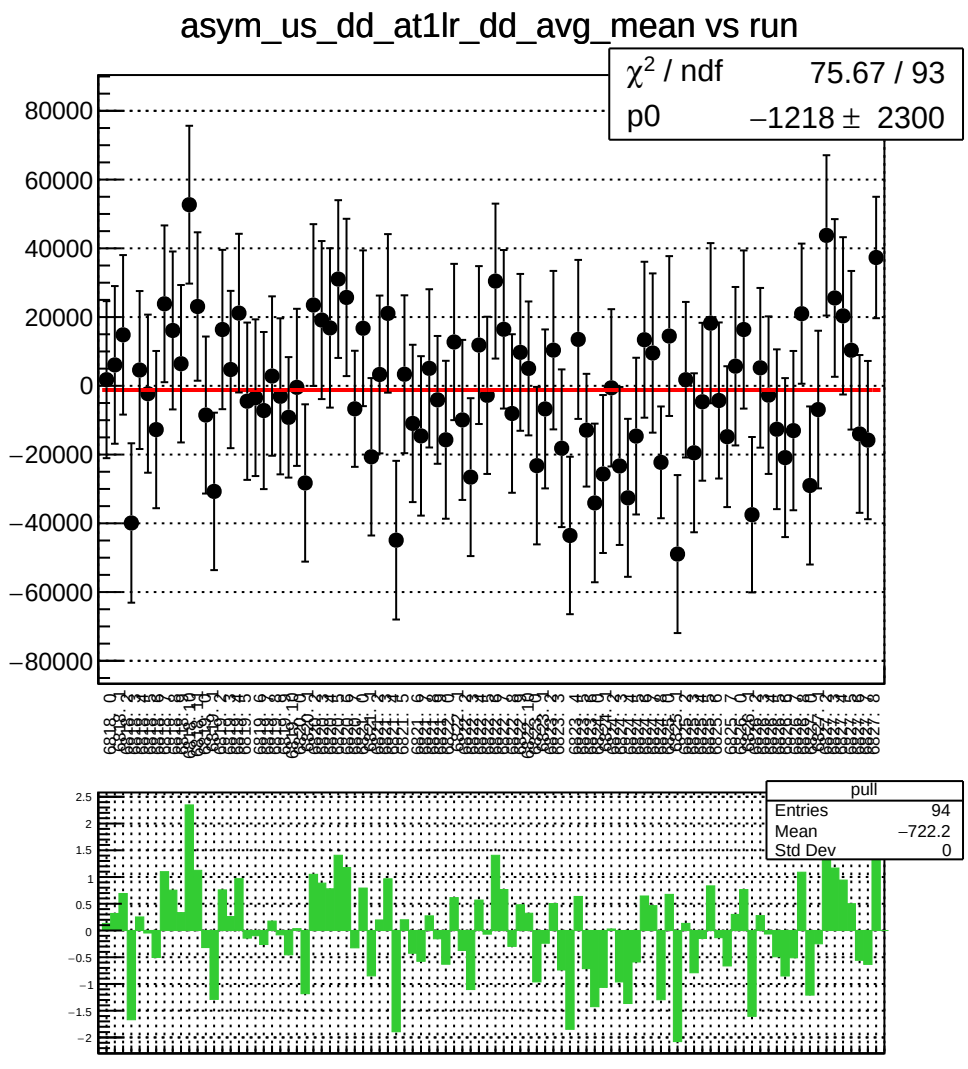

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.52 / 93
p0 −1368 ± 2295
pull
Entries 94
Mean −728.4
Std Dev 0

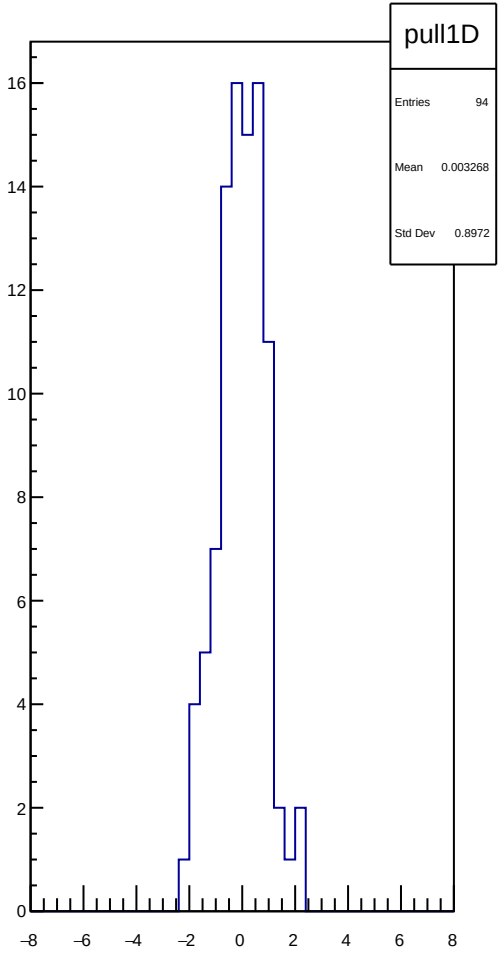

pull1D
Entries 94
Mean 0.003028
Std Dev 0.8963

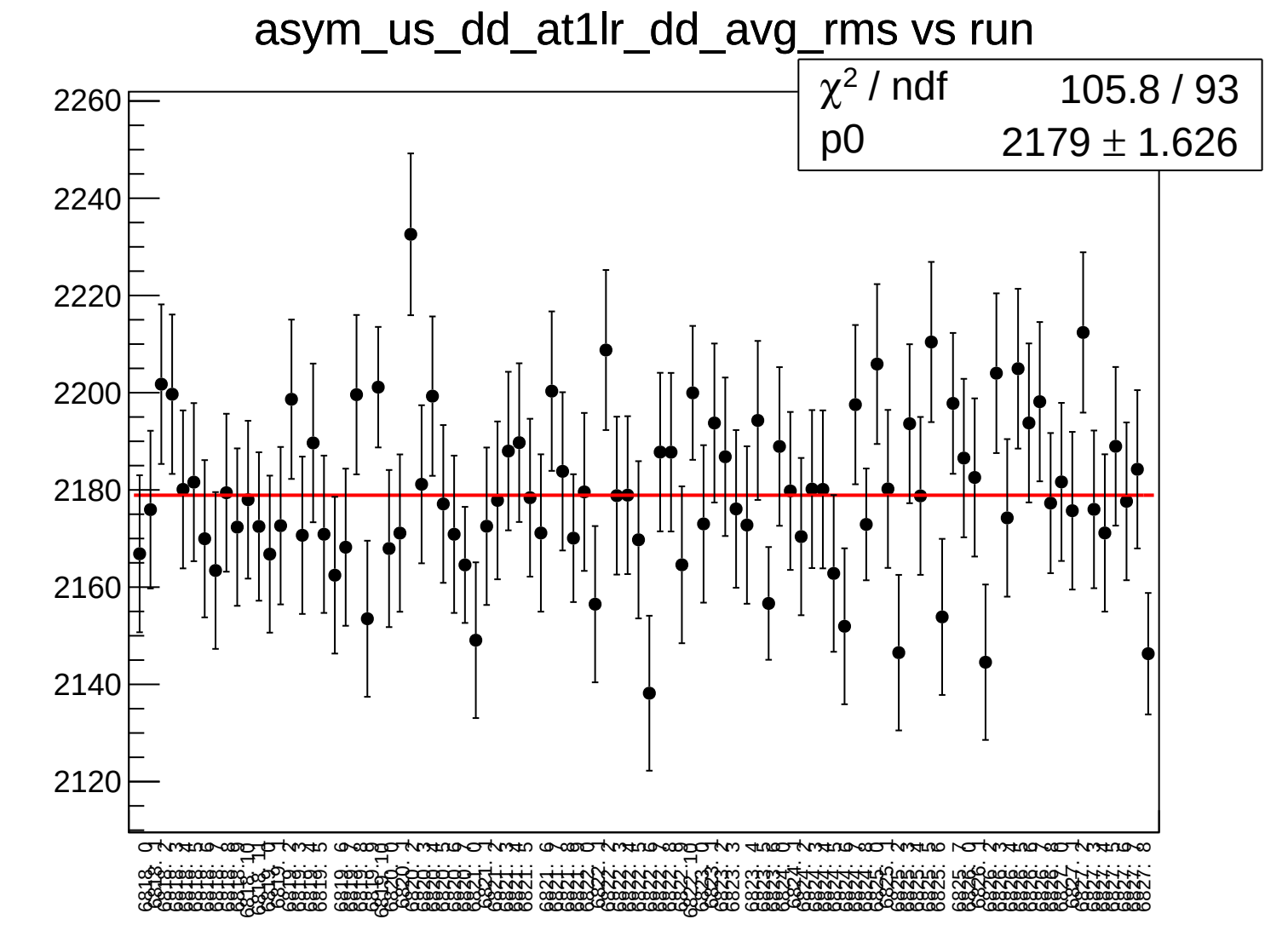

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 105.9 / 93
p0 2174 ± 1.623
2240
2220
2200
2180
2160
2140
2120

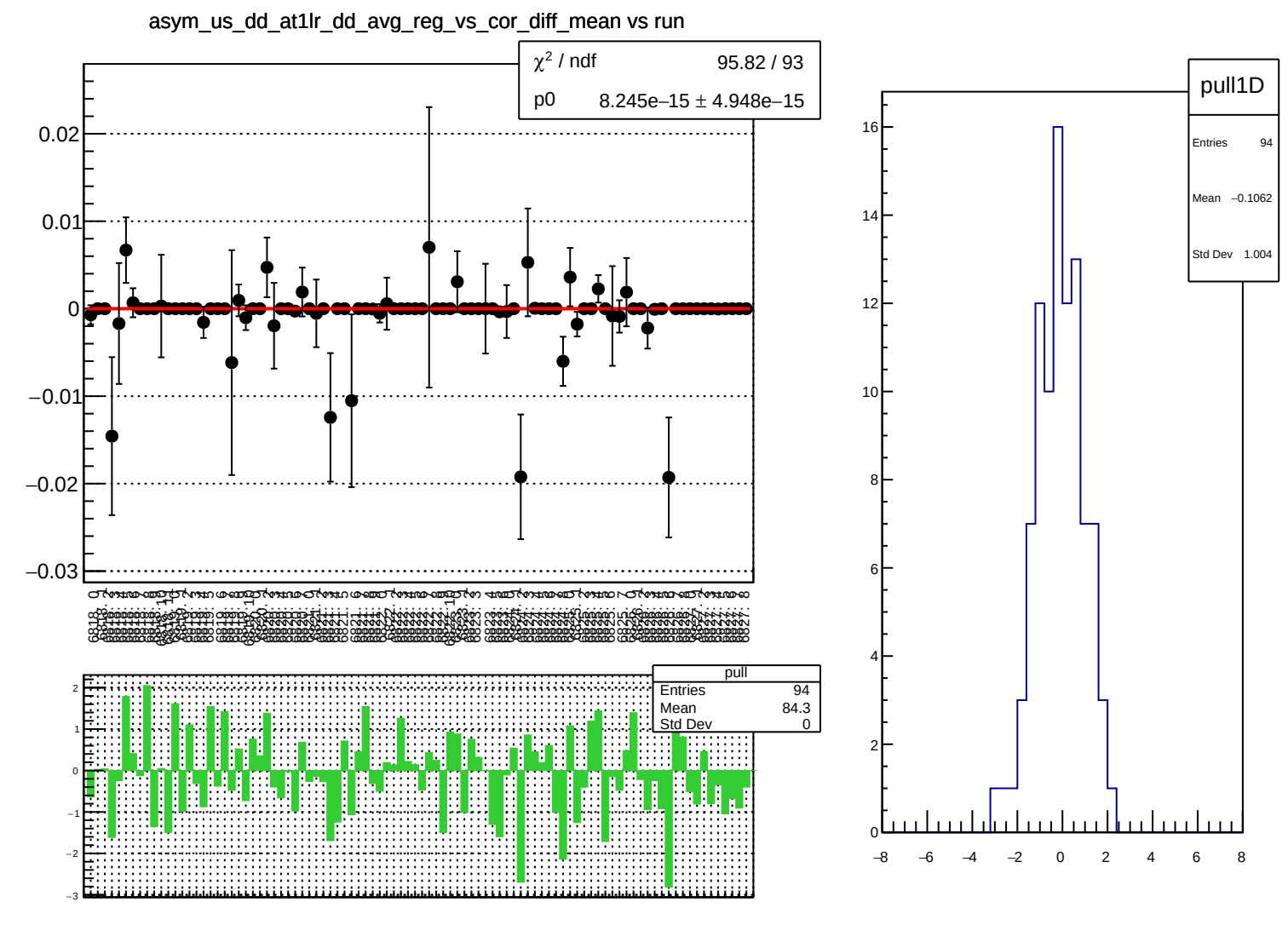

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.73 / 93
p0 −147 ± 148
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −514.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.004568
Std Dev 0.9605
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

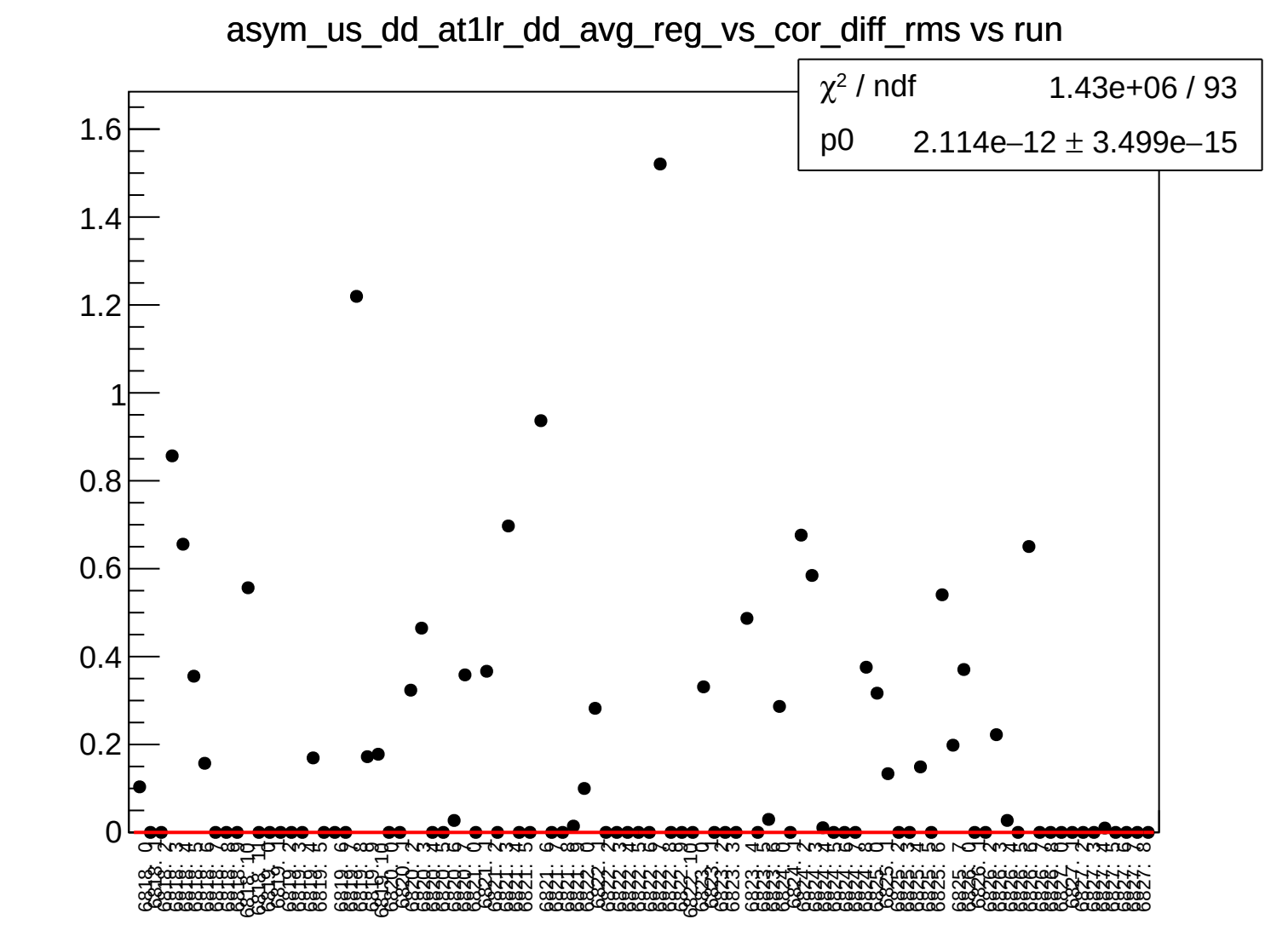

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2595 / 93
p0 140.2 ± 0.1047
165
160
155
150
145
140
135
130

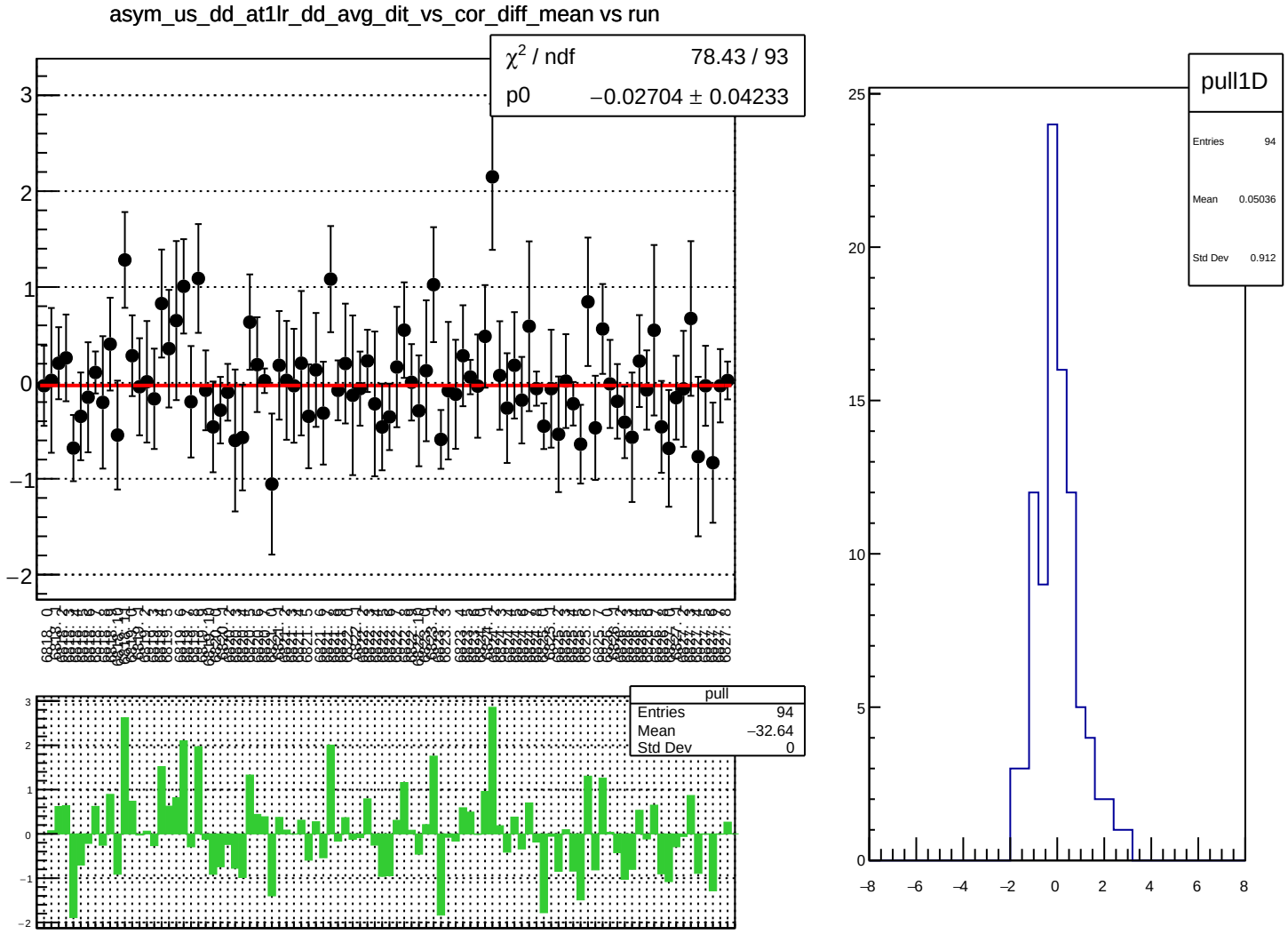

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 75.67 / 93
p0 −1218 ± 2300
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −722.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

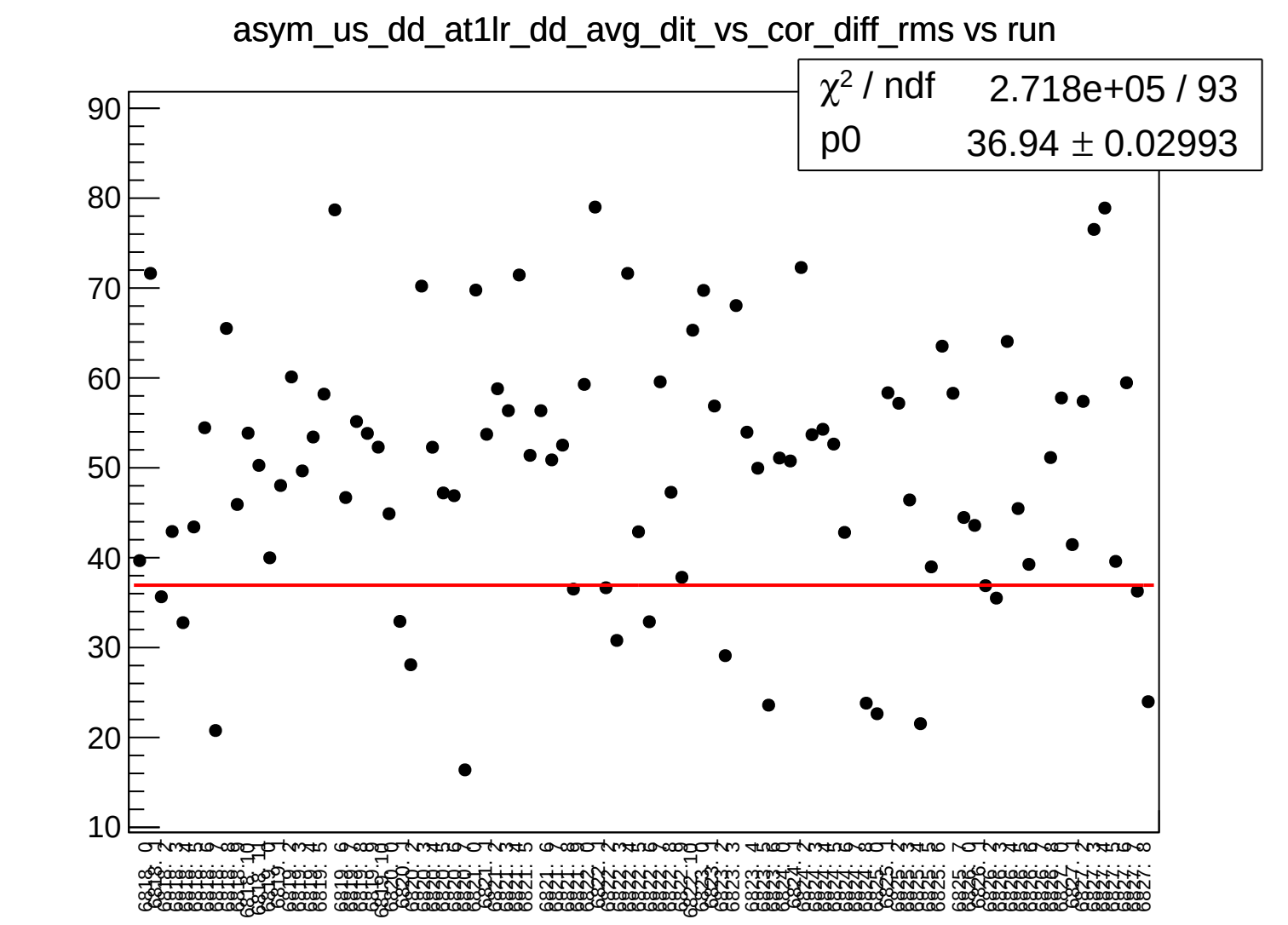

pull1D
Entries 94
Mean 0.003268
Std Dev 0.8972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

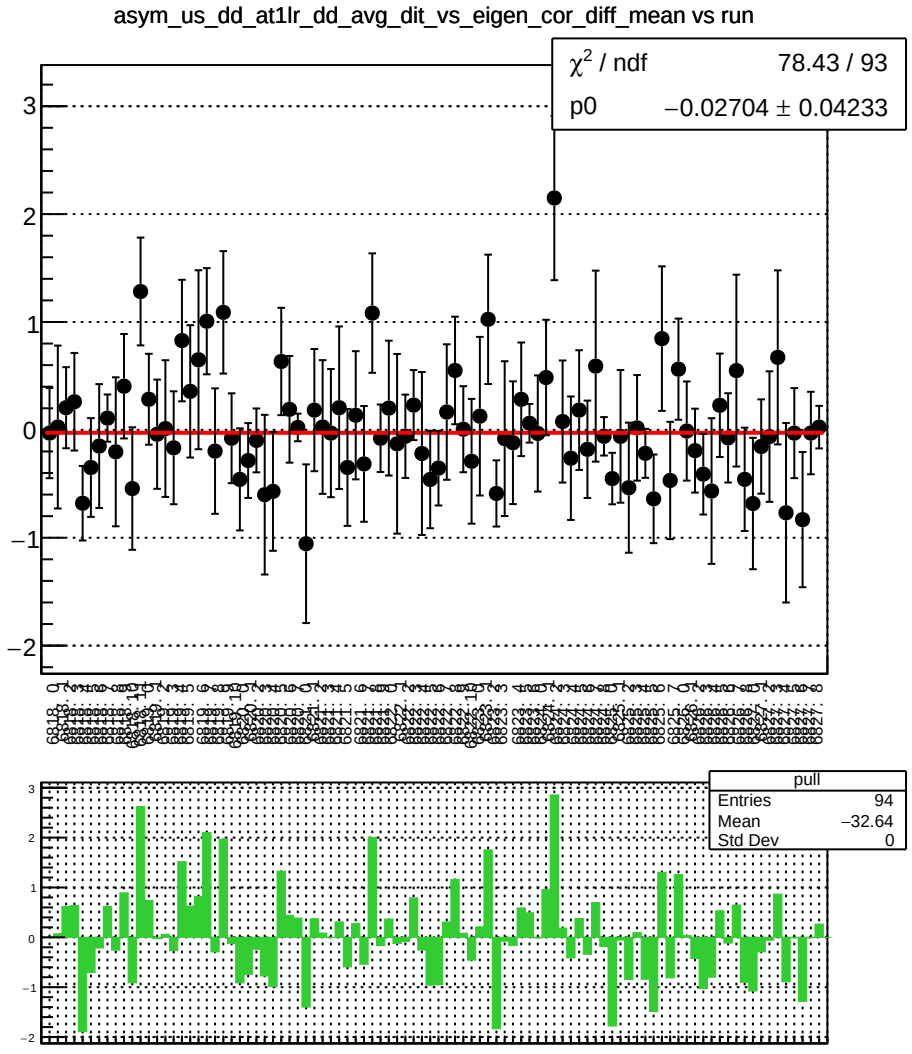

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 105.8 / 93
p0 2179 ± 1.626
2260
2240
2220
2200
2180
2160
2140
2120

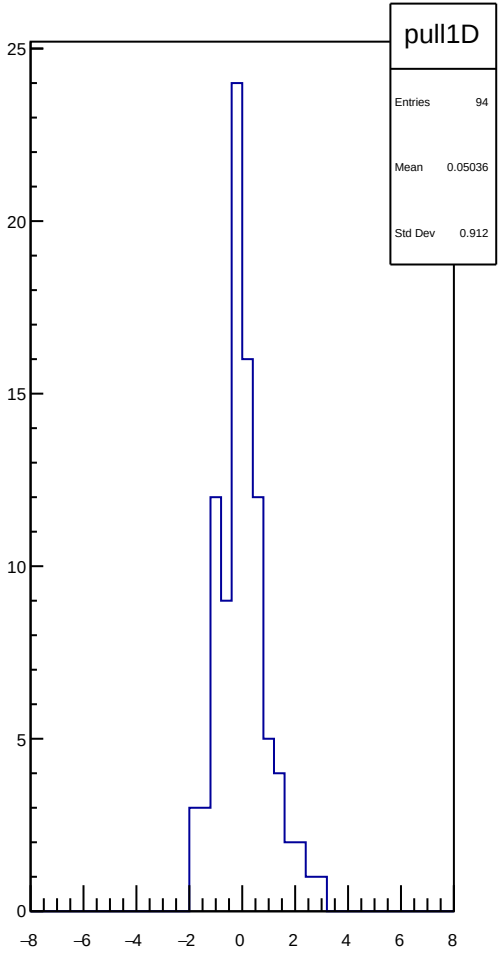

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 95.82 / 93
p0 8.245e−15 ± 4.948e−15
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean 84.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.1062
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

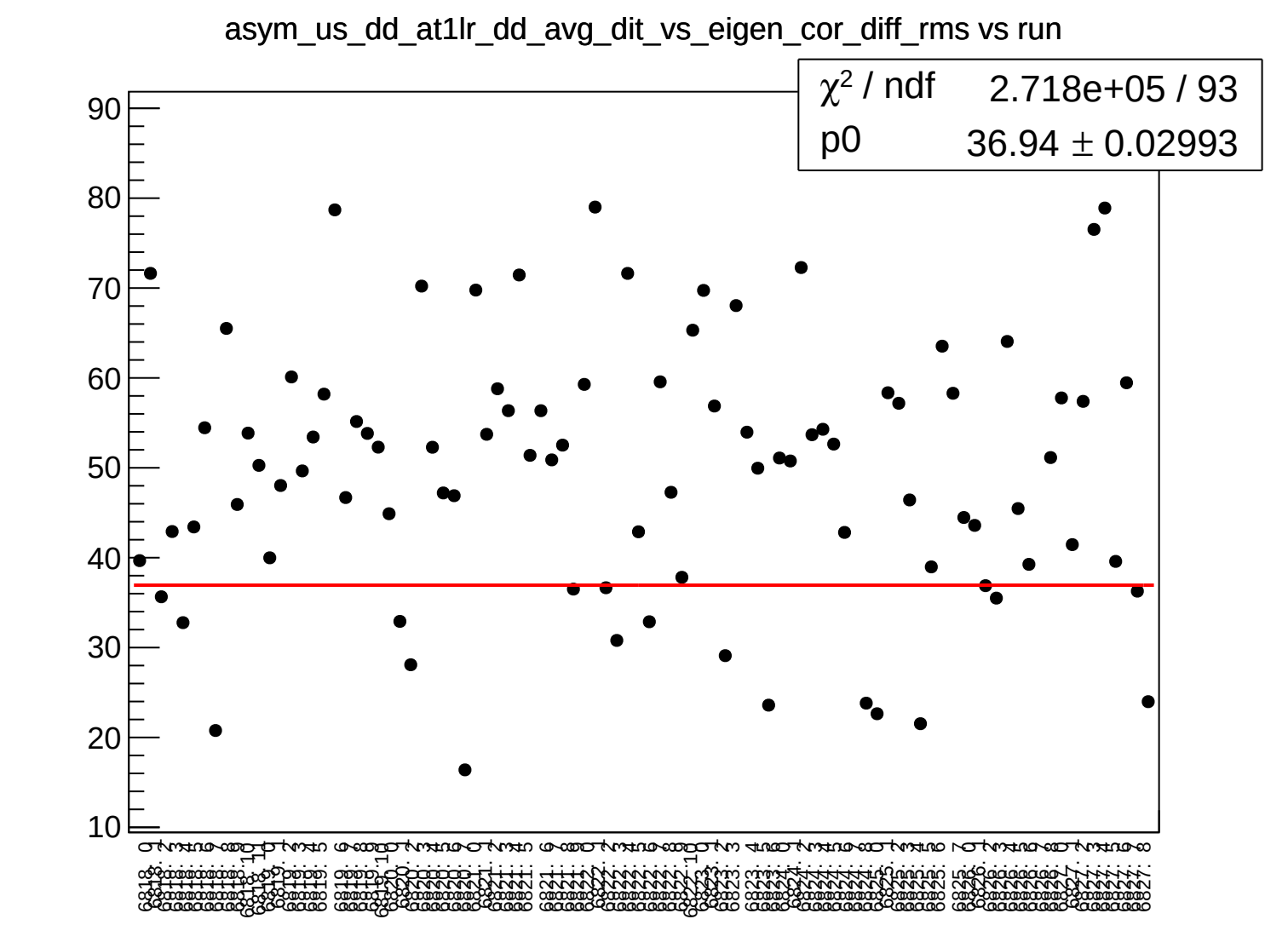

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.43e+06 / 93
p0 2.114e−12 ± 3.499e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

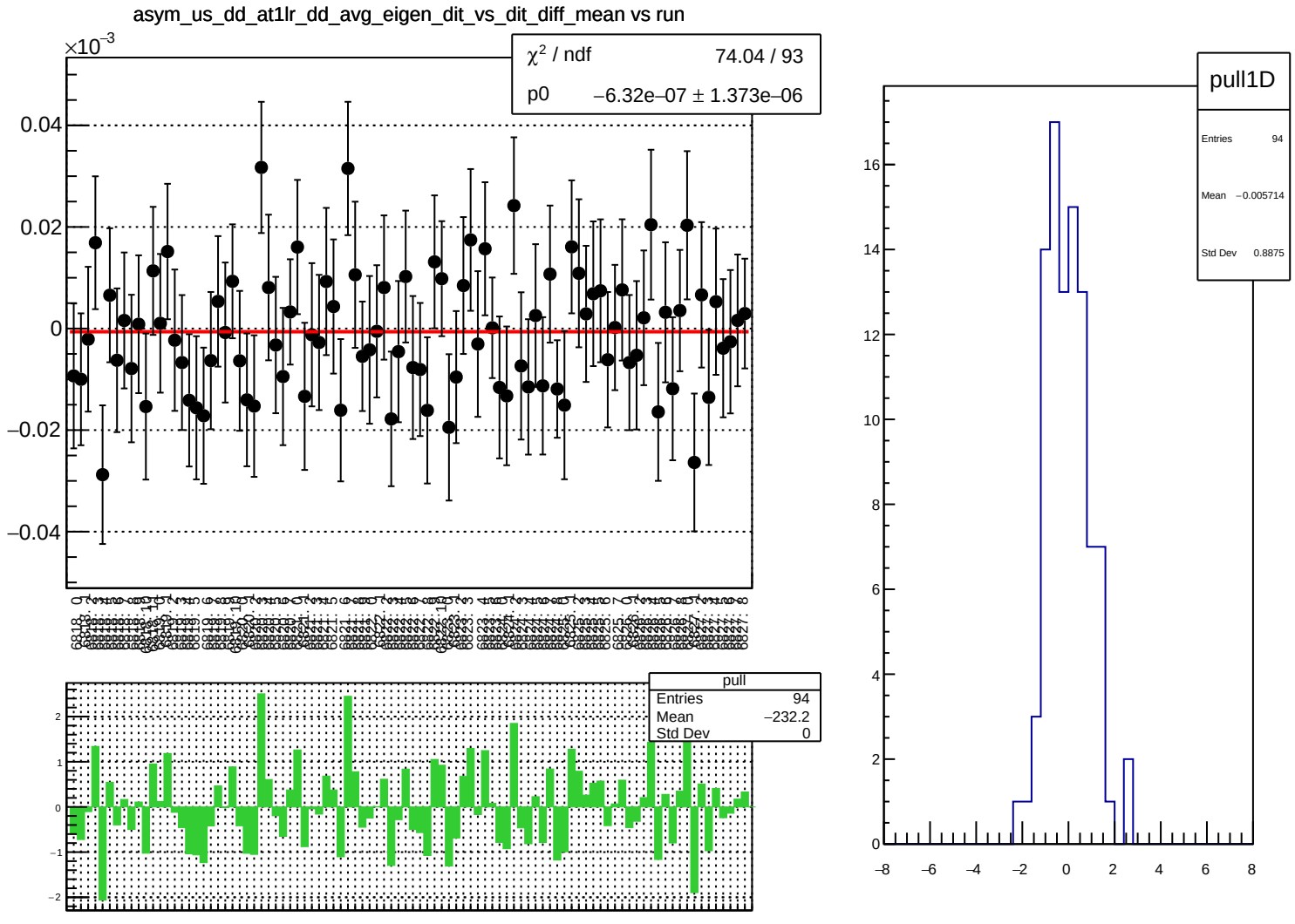

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.43 / 93
p0 −0.02704 ± 0.04233
pull
Entries 94
Mean −32.64
Std Dev 0
pull1D
Entries 94
Mean 0.05036
Std Dev 0.912

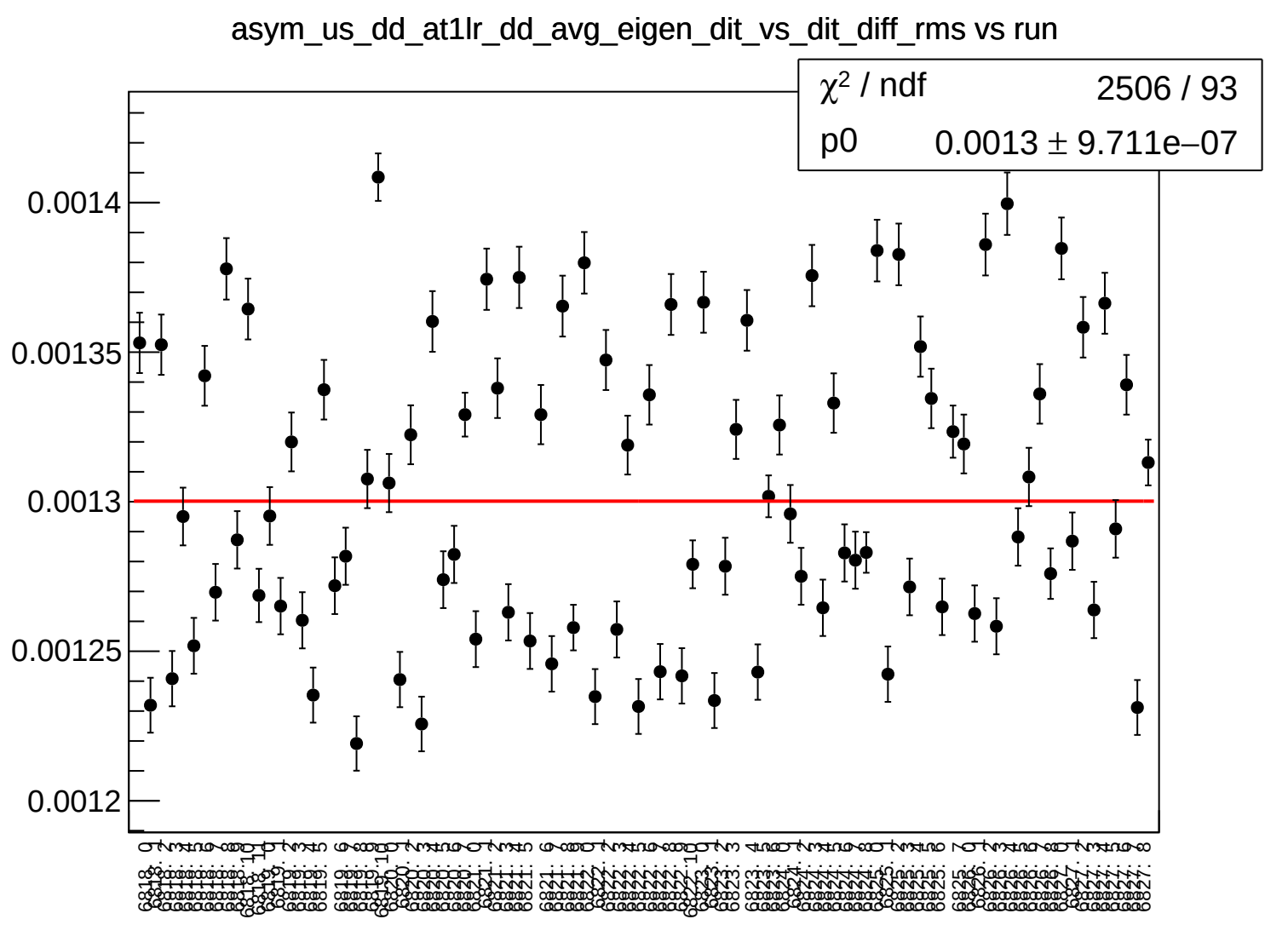

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.718e+05 / 93
p0 36.94 ± 0.02993
90
80
70
60
50
40
30
20
10

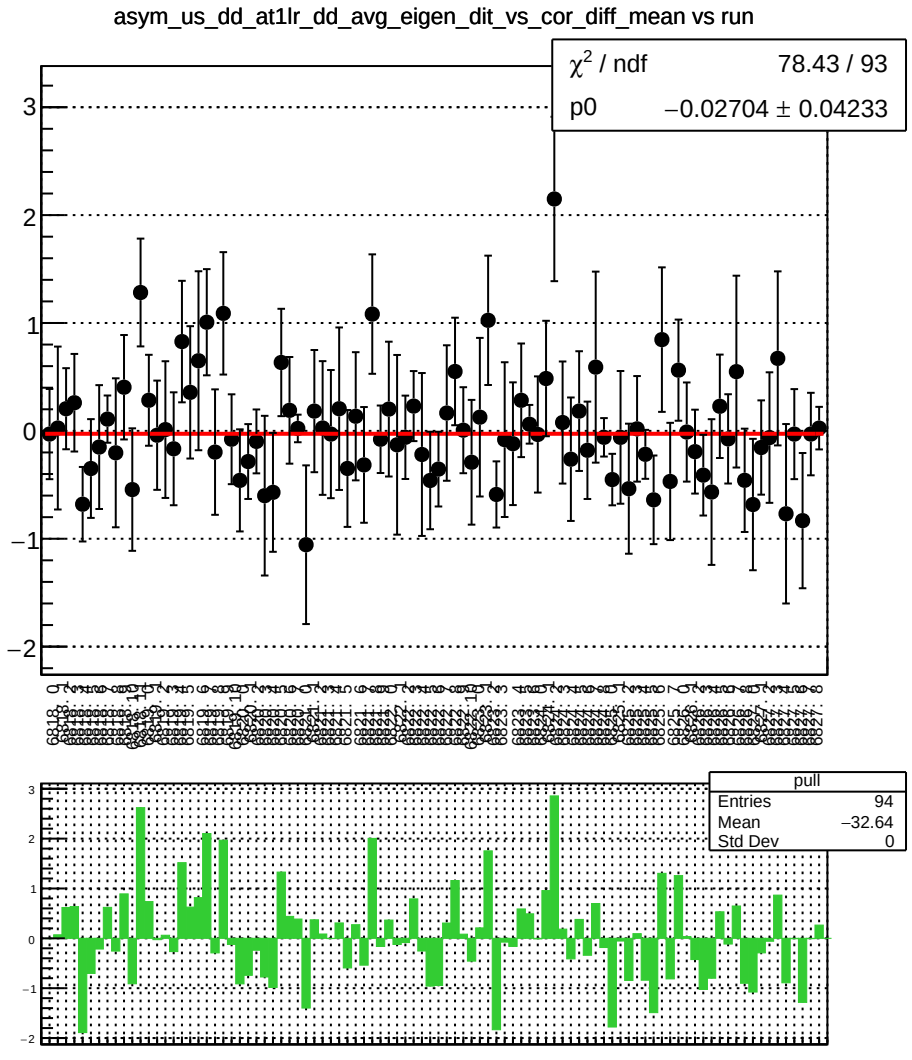

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.43 / 93
p0 −0.02704 ± 0.04233
pull
Entries 94
Mean −32.64
Std Dev 0

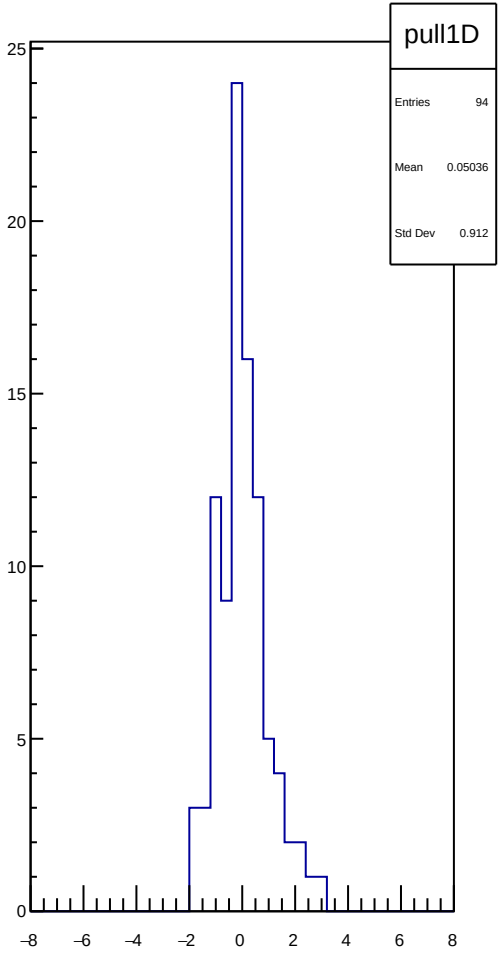

pull1D
Entries 94
Mean 0.05036
Std Dev 0.912

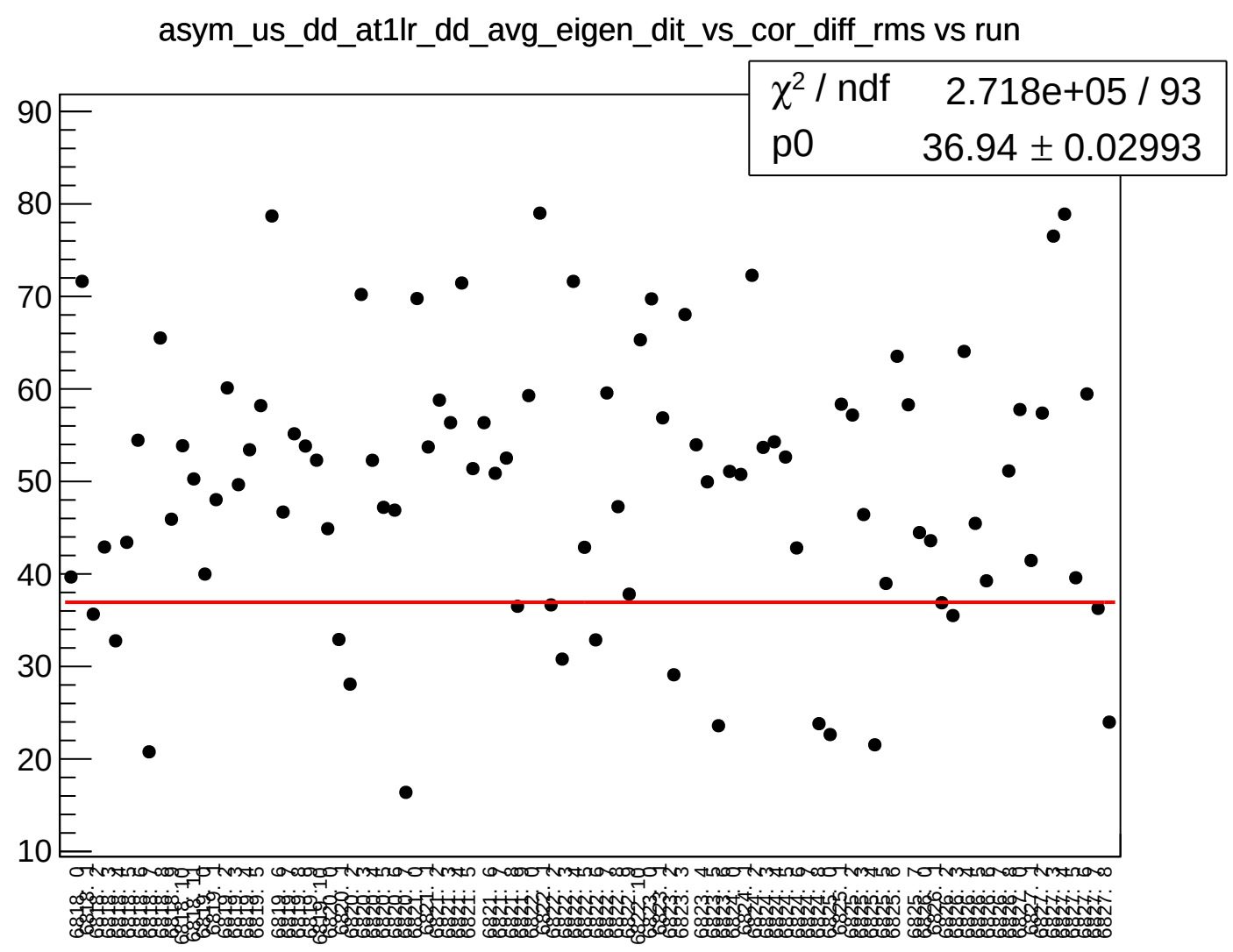

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.718e+05 / 93
p0 36.94 ± 0.02993
90
80
70
60
50
40
30
20
10

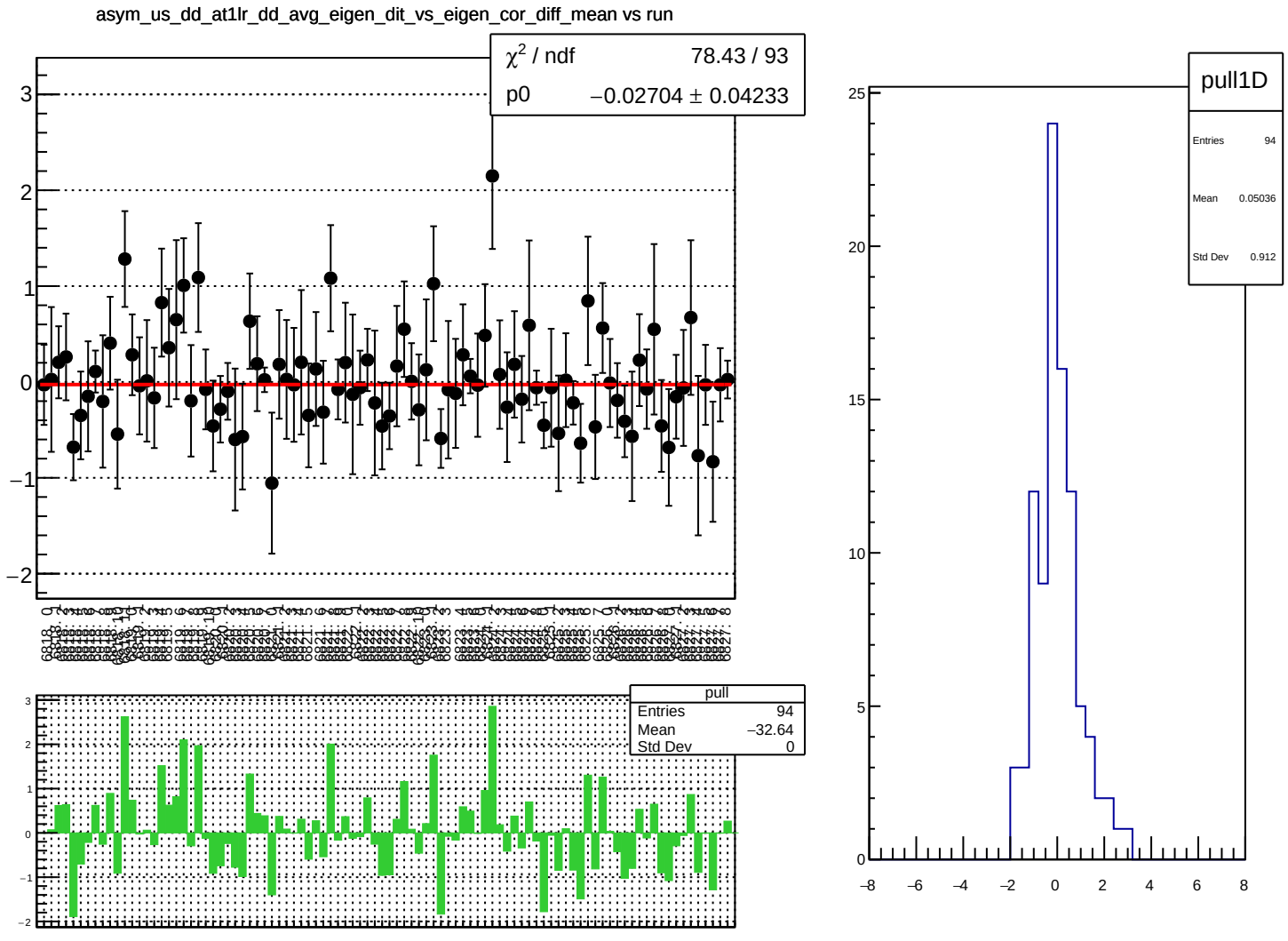

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.04 / 93
p0 −6.32e−07 ± 1.373e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −232.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005714
Std Dev 0.8875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

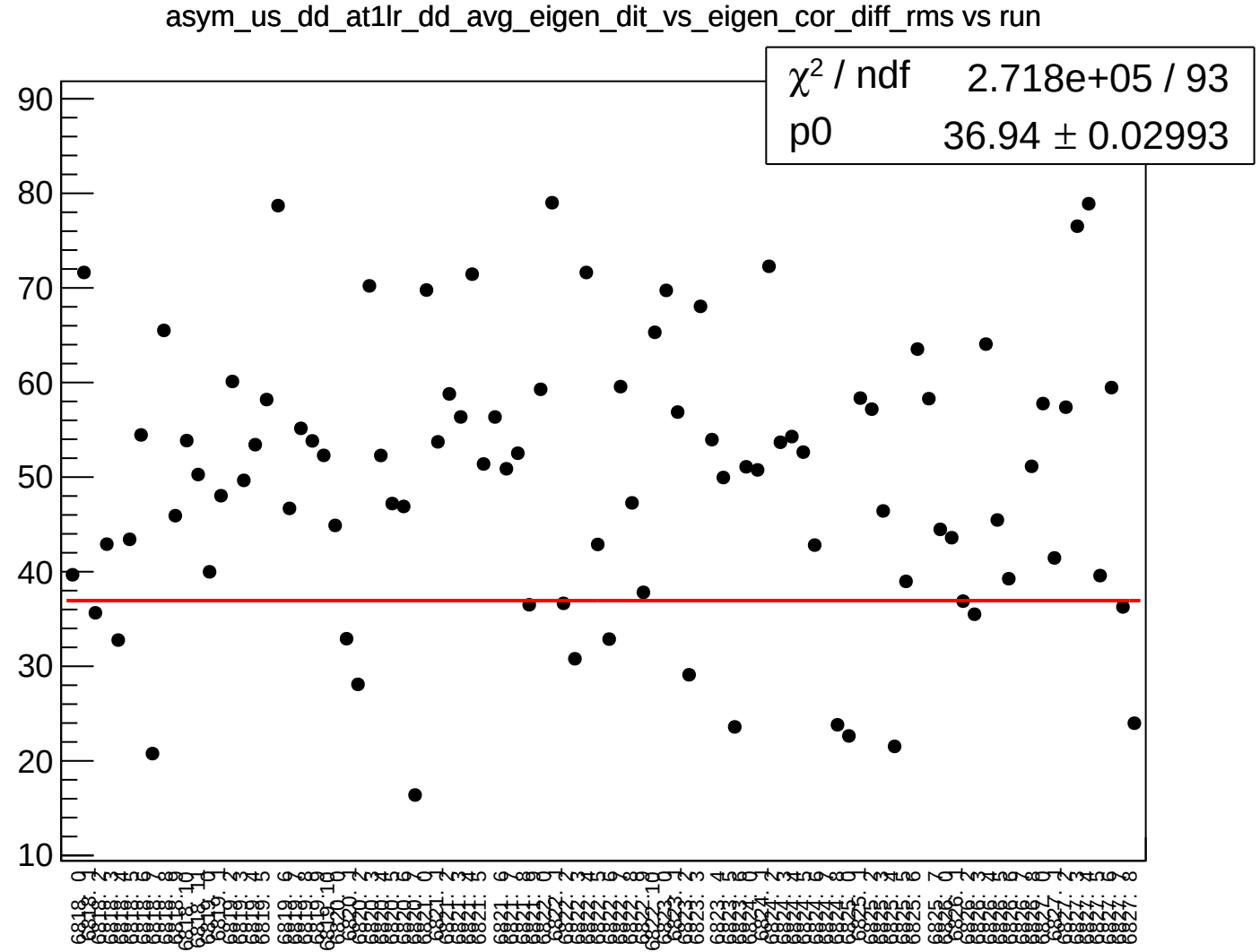

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2506 / 93
p0 0.0013 ± 9.711e−07
0.0014
0.00135
0.0013
0.00125
0.0012

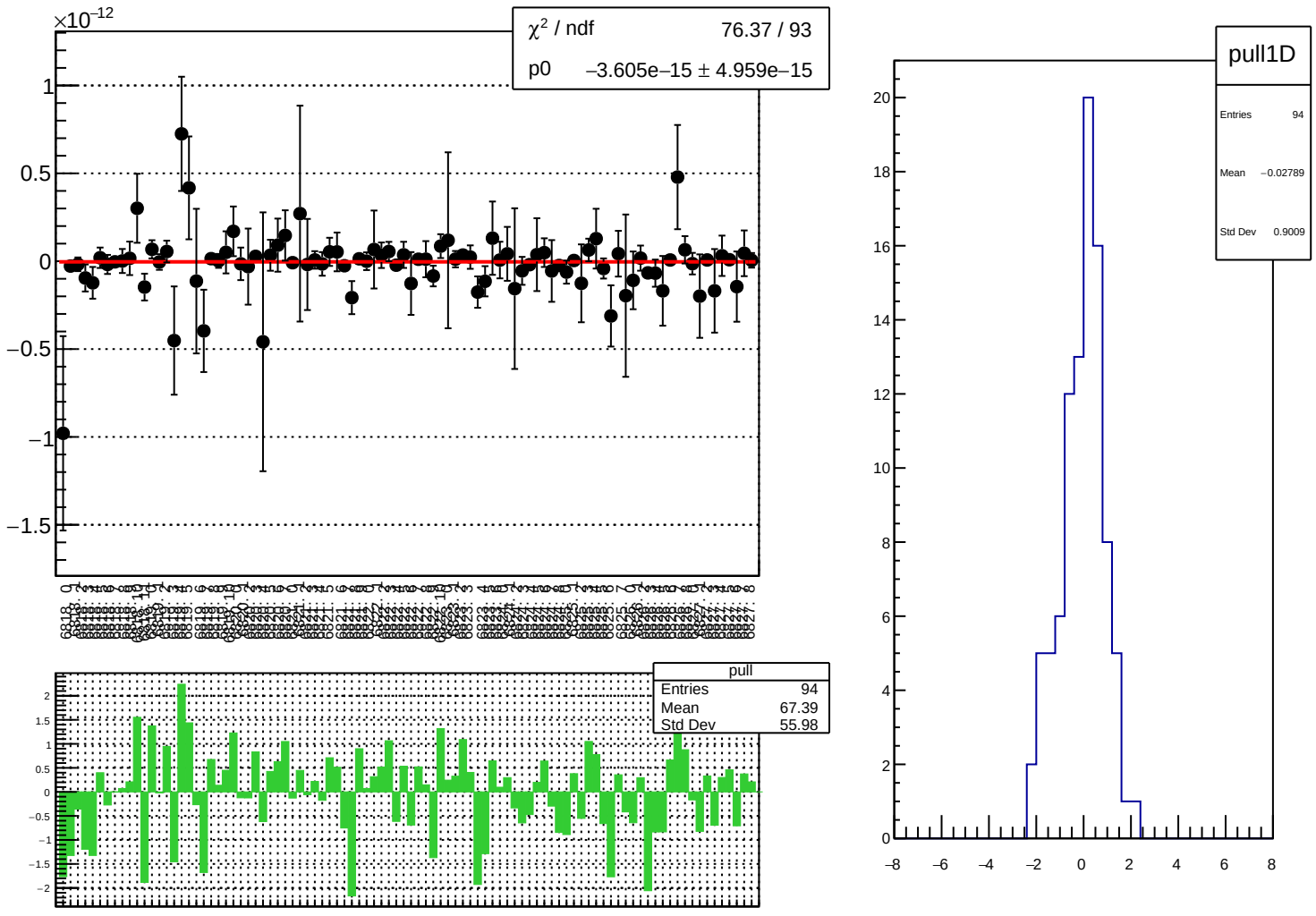

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.43 / 93
p0 −0.02704 ± 0.04233
pull
Entries 94
Mean −32.64
Std Dev 0

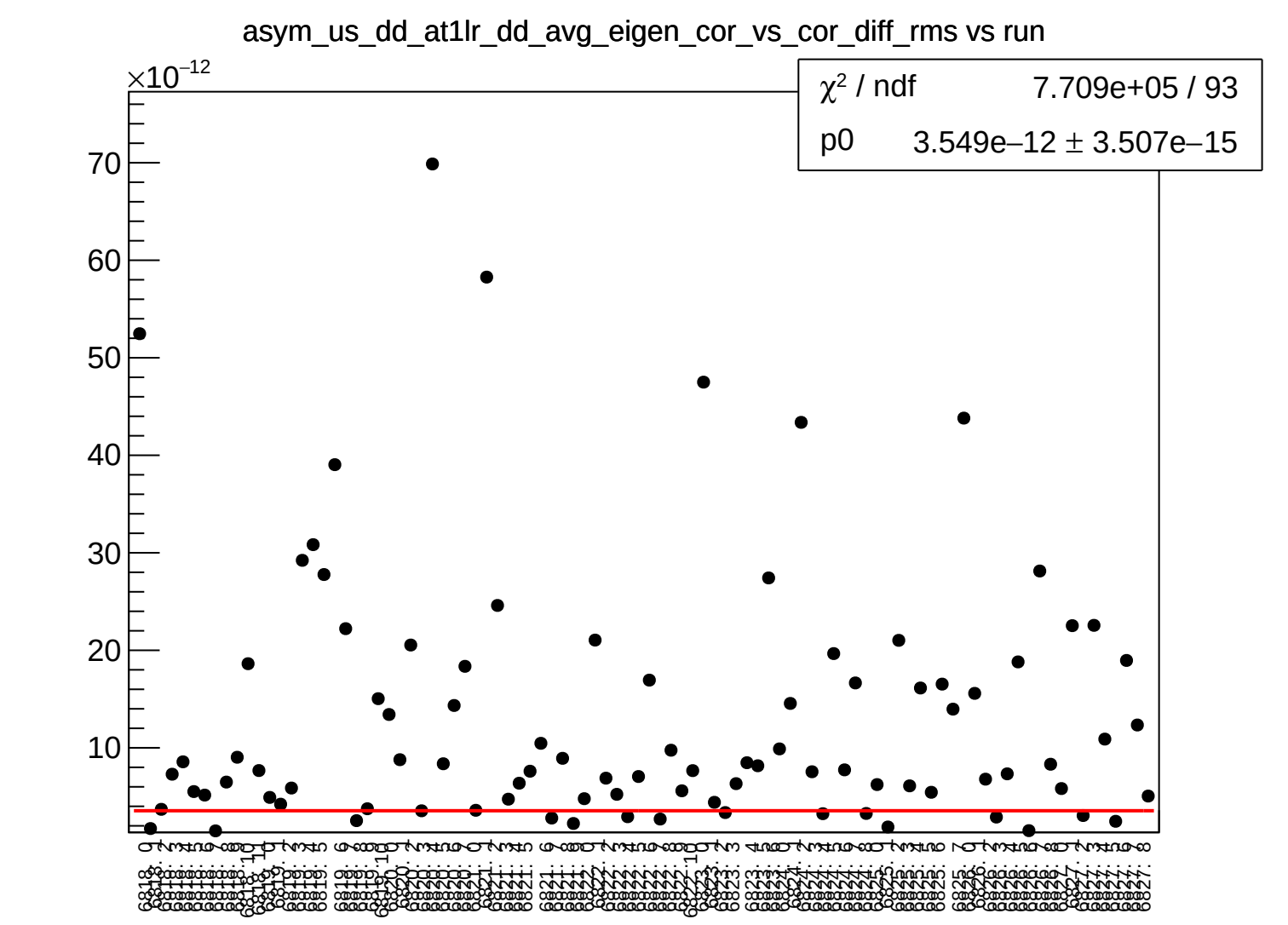

pull1D
Entries 94
Mean 0.05036
Std Dev 0.912

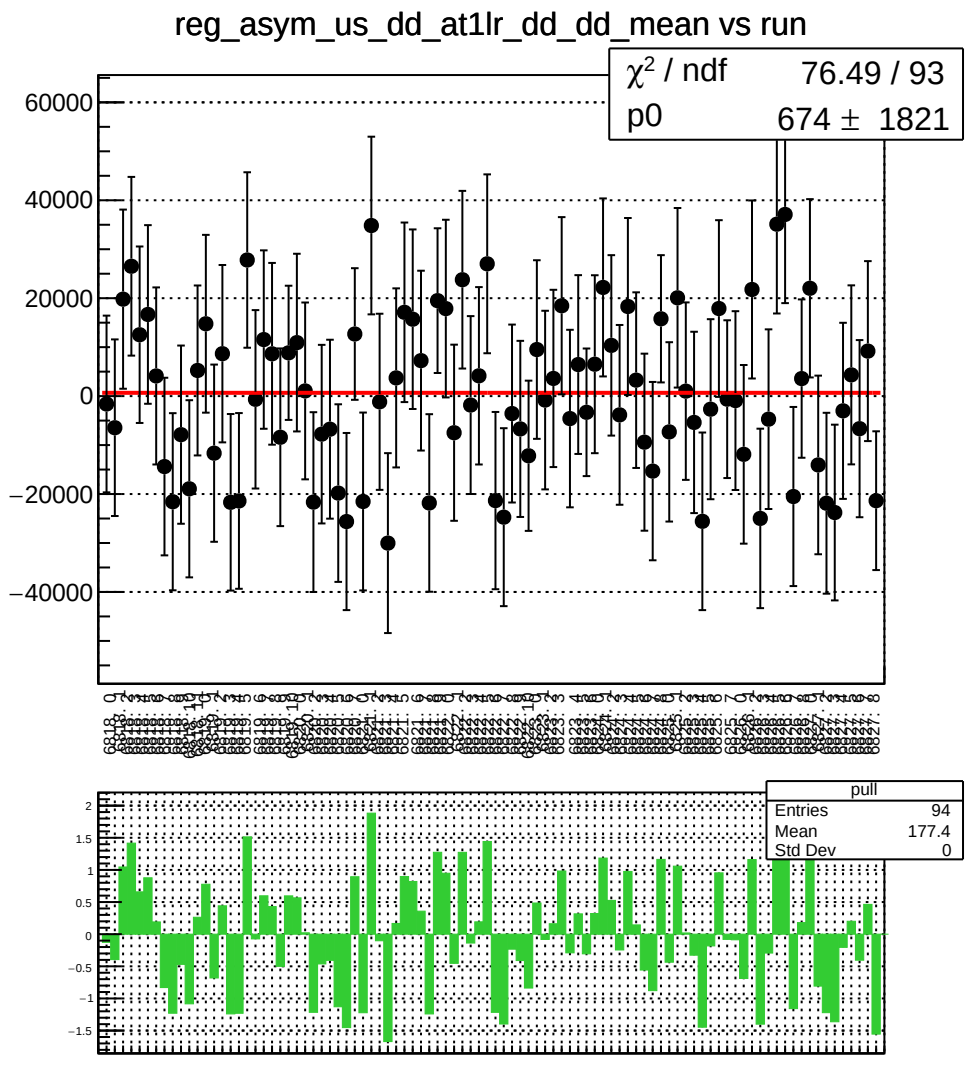

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.718e+05 / 93
p0 36.94 ± 0.02993
90
80
70
60
50
40
30
20
10

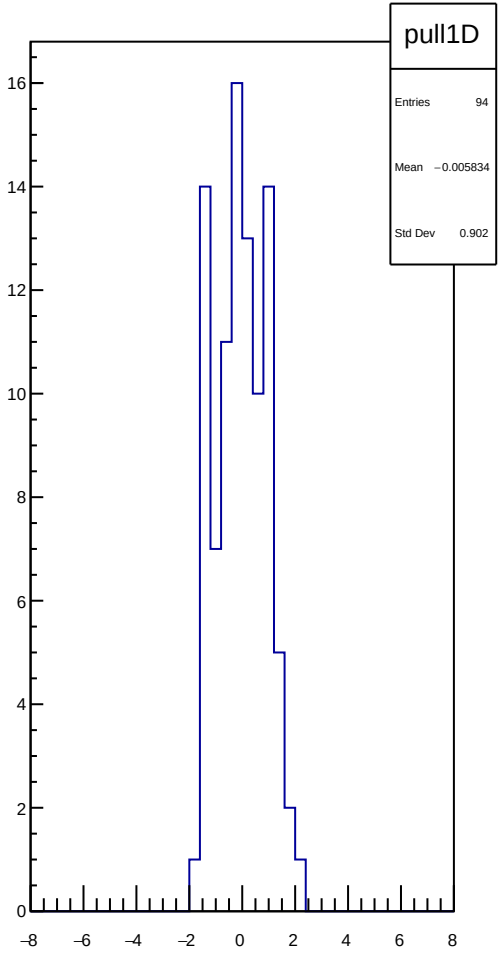

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.43 / 93
p0 −0.02704 ± 0.04233
pull
Entries 94
Mean −32.64
Std Dev 0
pull1D
Entries 94
Mean 0.05036
Std Dev 0.912

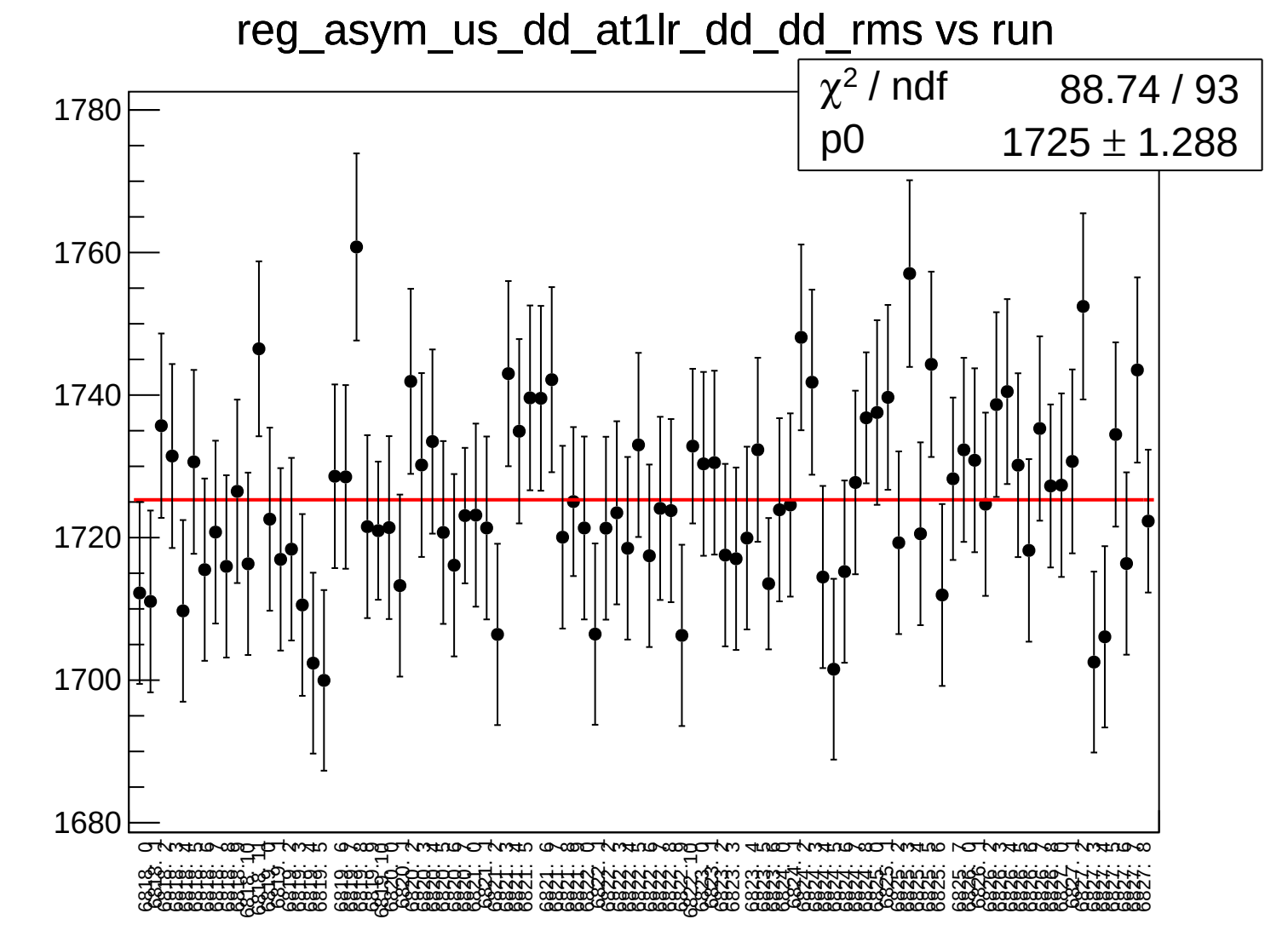

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.718e+05 / 93
p0 36.94 ± 0.02993
90
80
70
60
50
40
30
20
10

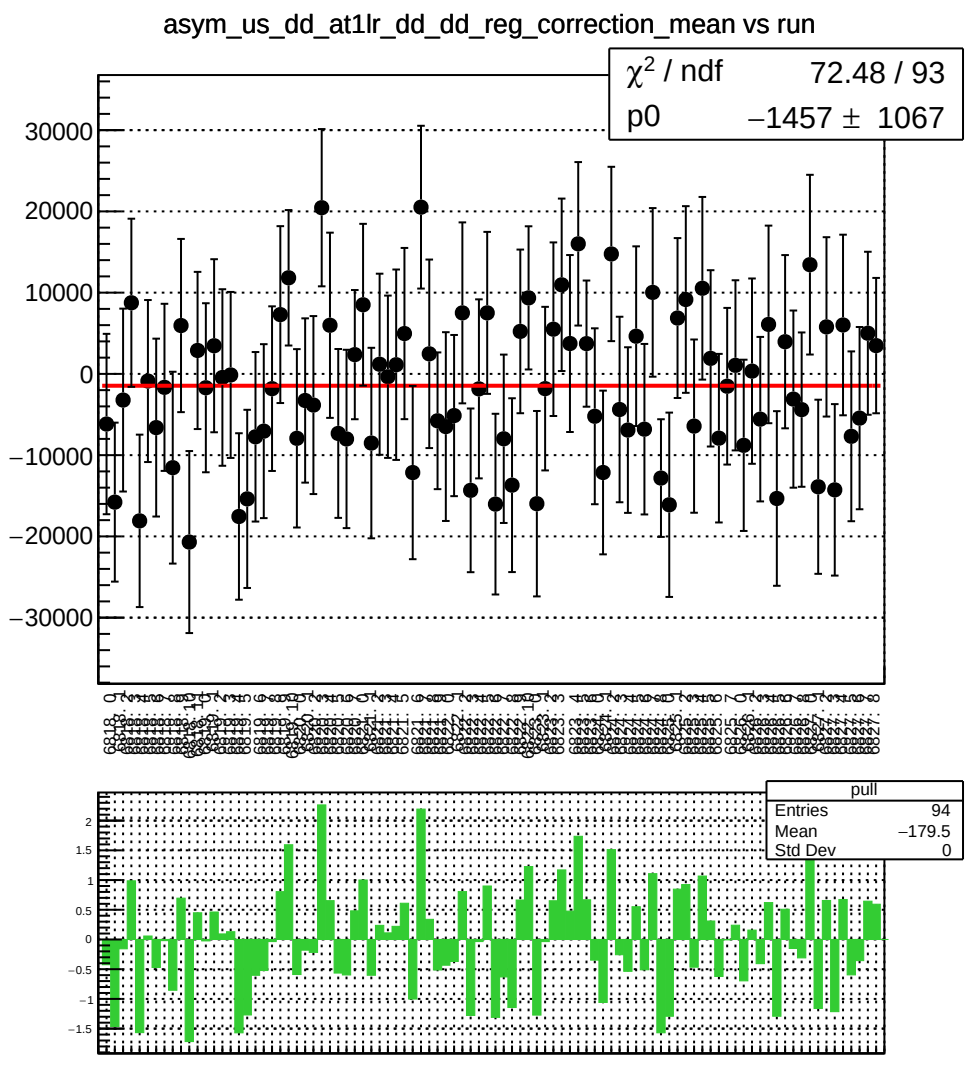

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 76.37 / 93
p0 −3.605e−15 ± 4.959e−15
pull
Entries 94
Mean 67.39
Std Dev 55.98
pull1D
Entries 94
Mean −0.02789
Std Dev 0.9009

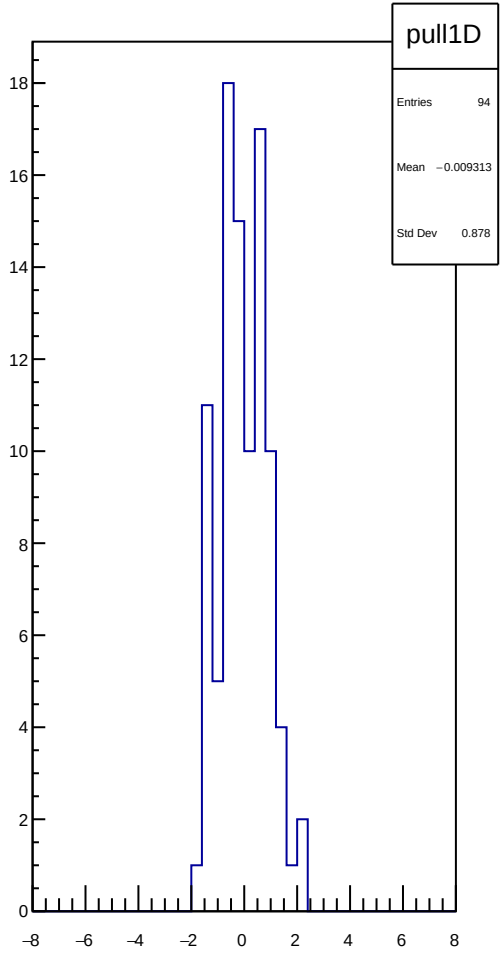

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.709e+05 / 93
p0 3.549e−12 ± 3.507e−15
70
60
50
40
30
20
10

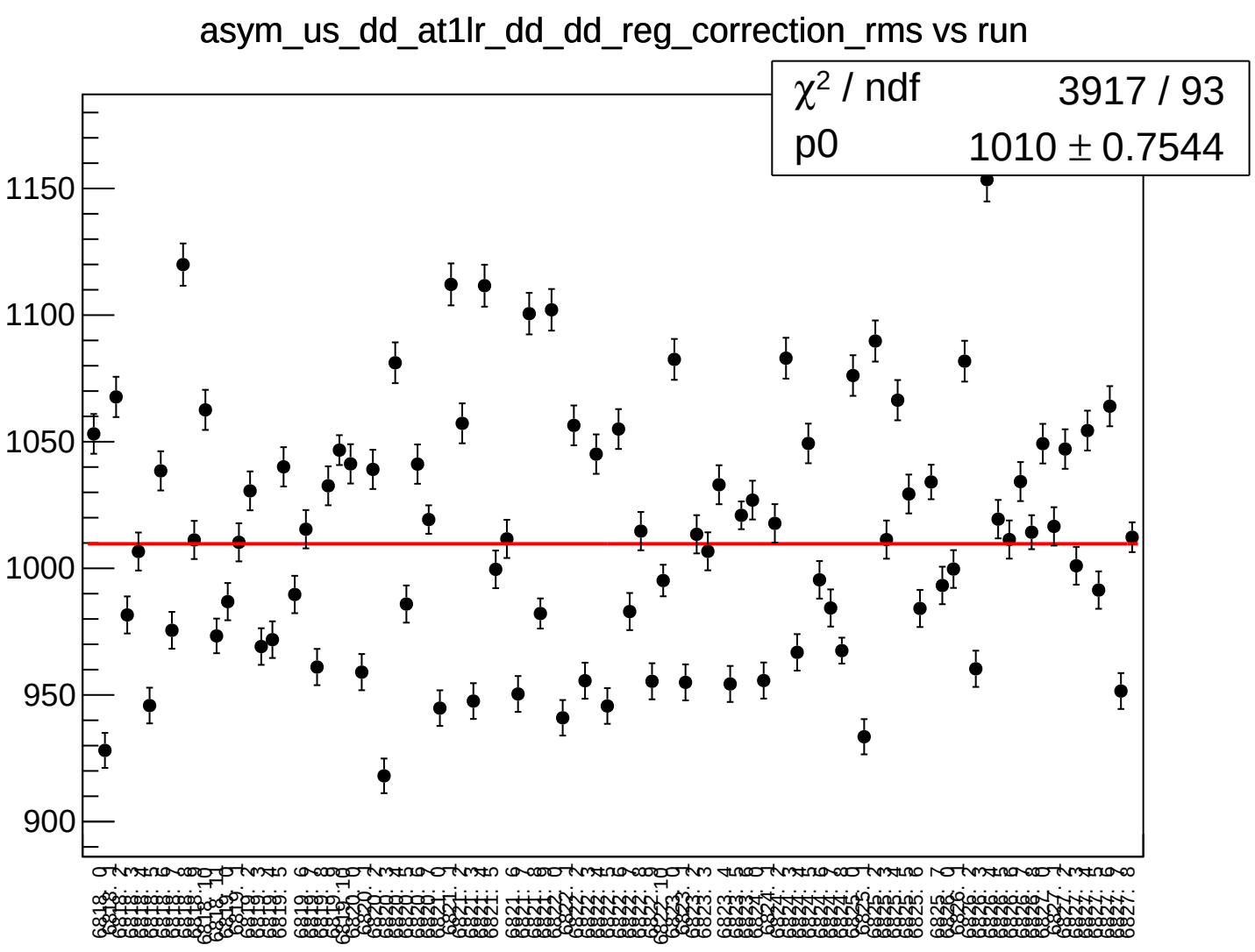

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.49 / 93
p0 674 ± 1821
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 177.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

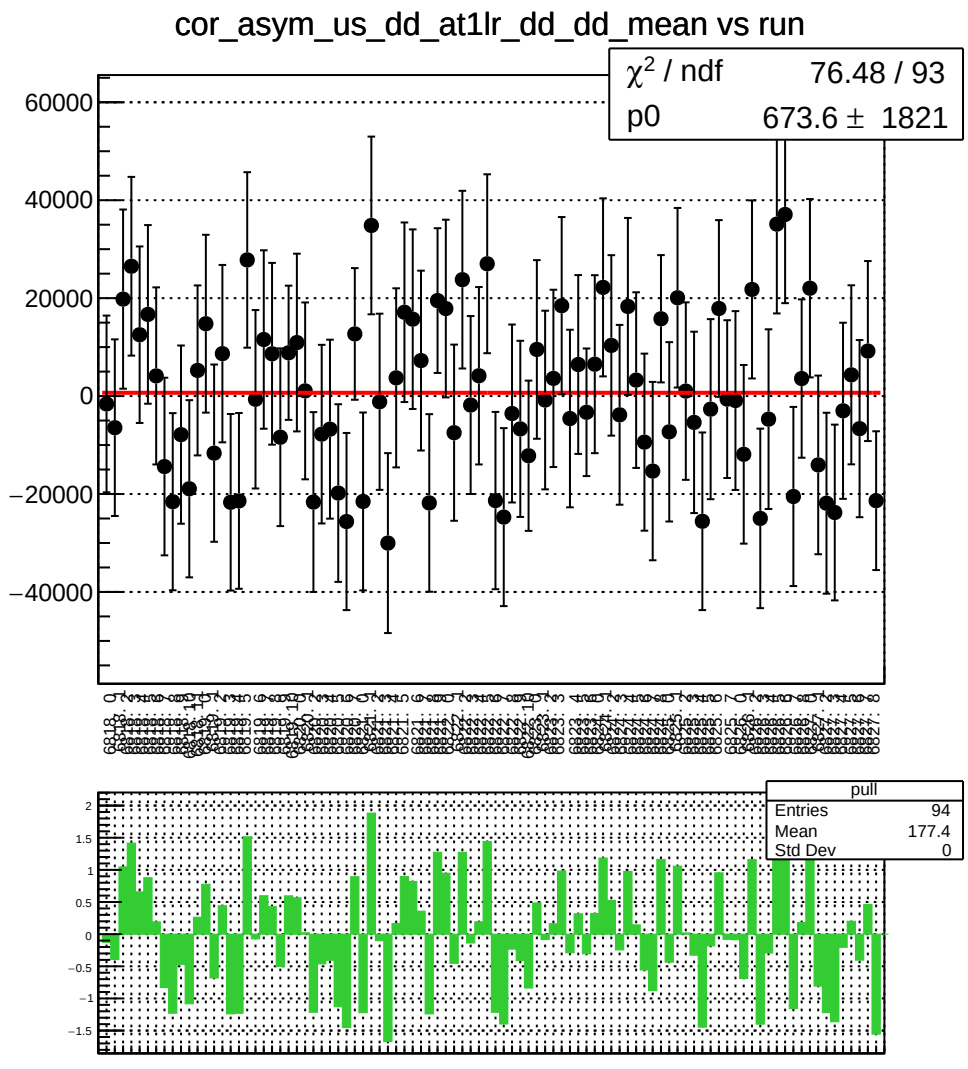

pull1D
Entries 94
Mean −0.005834
Std Dev 0.902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

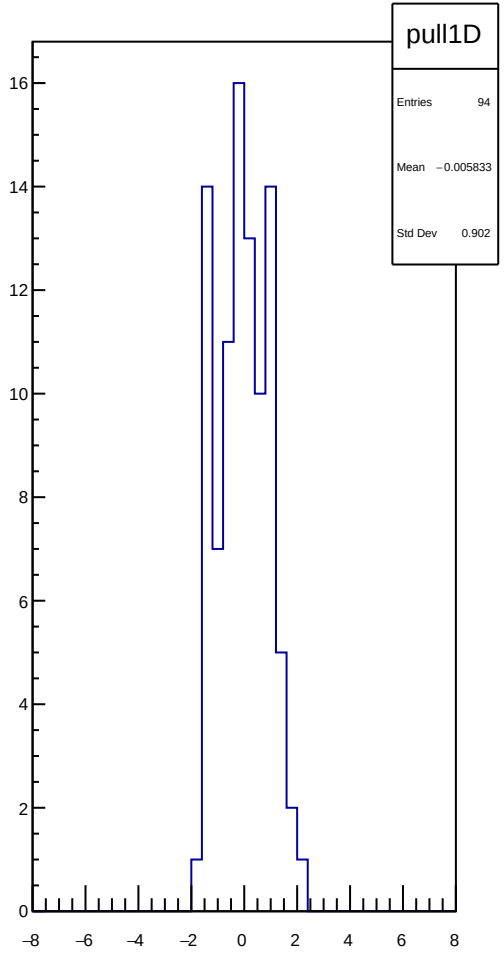

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.74 / 93
p0 1725 ± 1.288
1780
1760
1740
1720
1700
1680

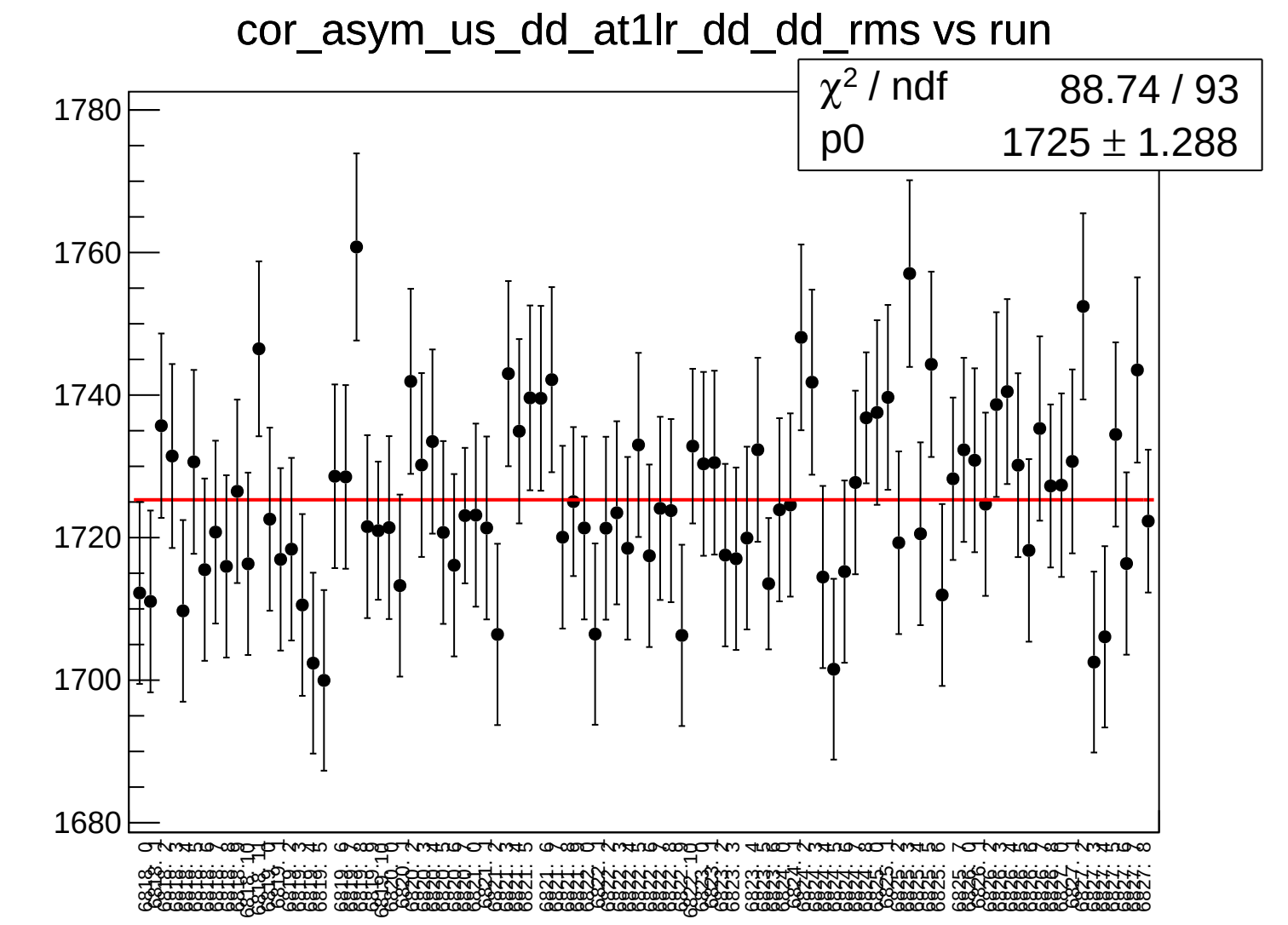

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 72.48 / 93
p0 −1457 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −179.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

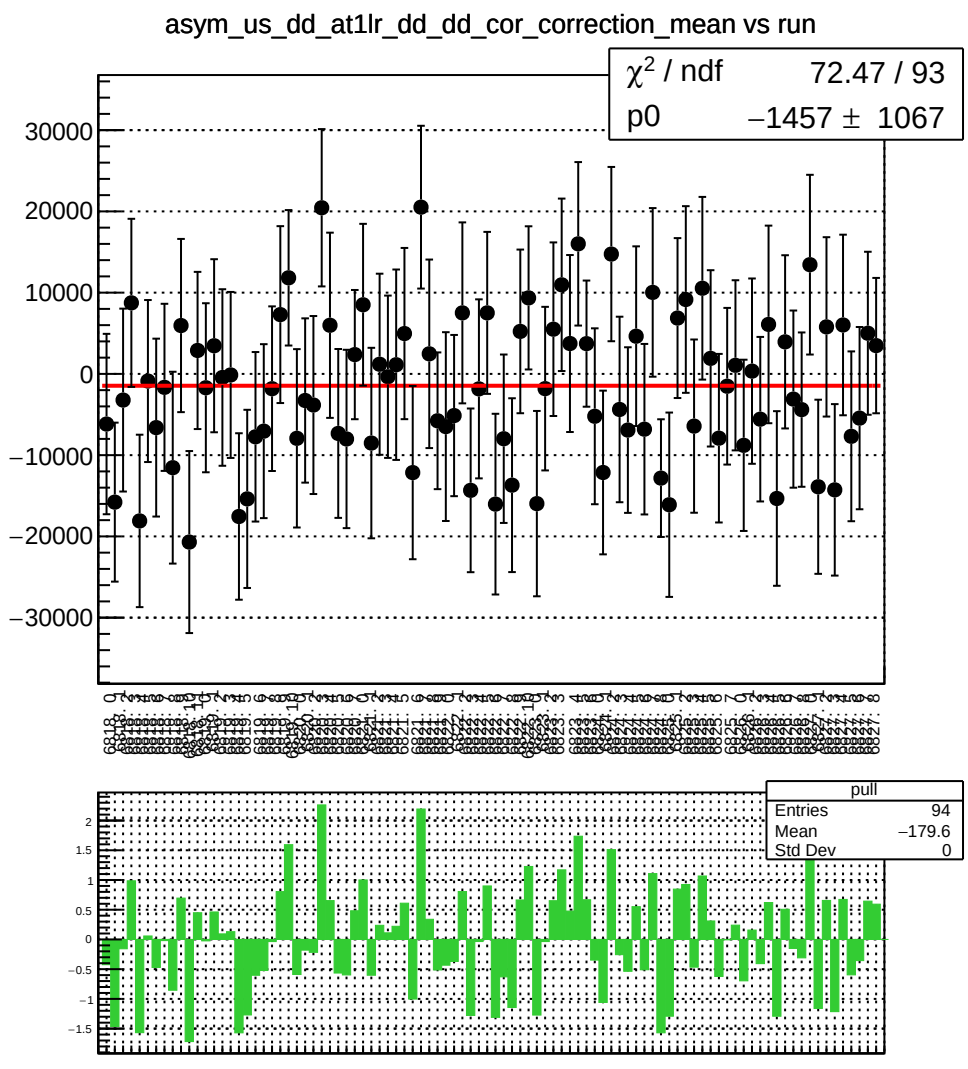

pull1D
Entries 94
Mean −0.009313
Std Dev 0.878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

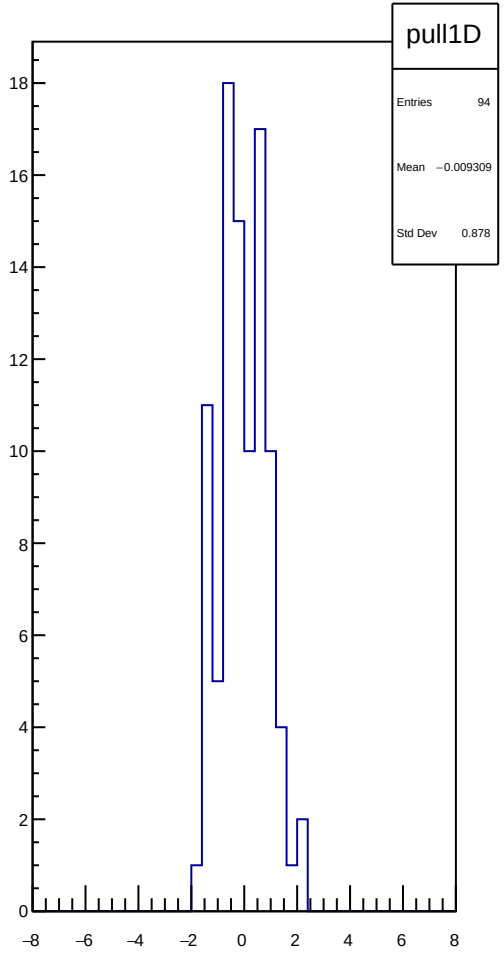

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 3917 / 93
p0 1010 ± 0.7544
1150
1100
1050
1000
950
900

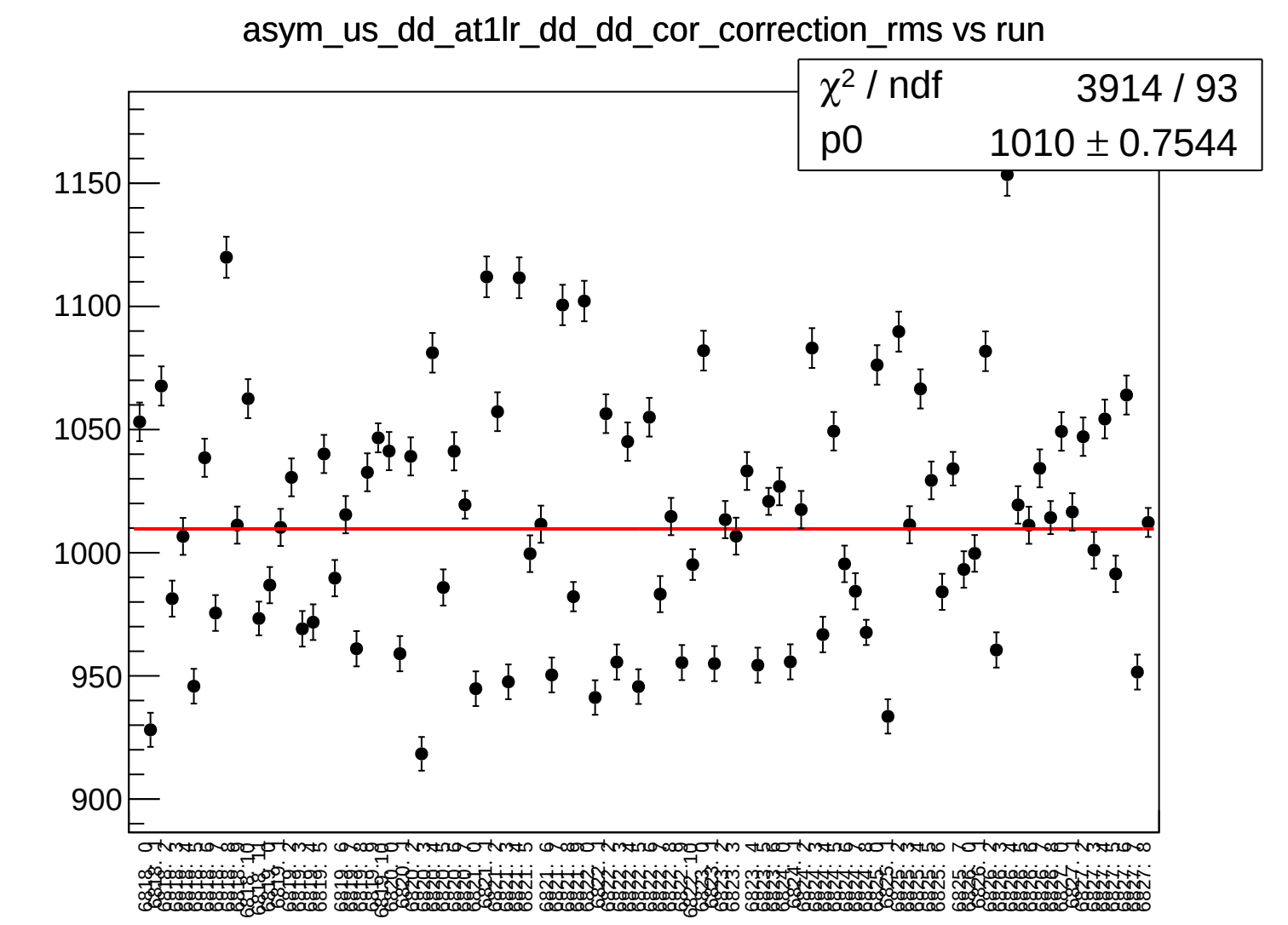

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.48 / 93
p0 673.6 ± 1821
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 177.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

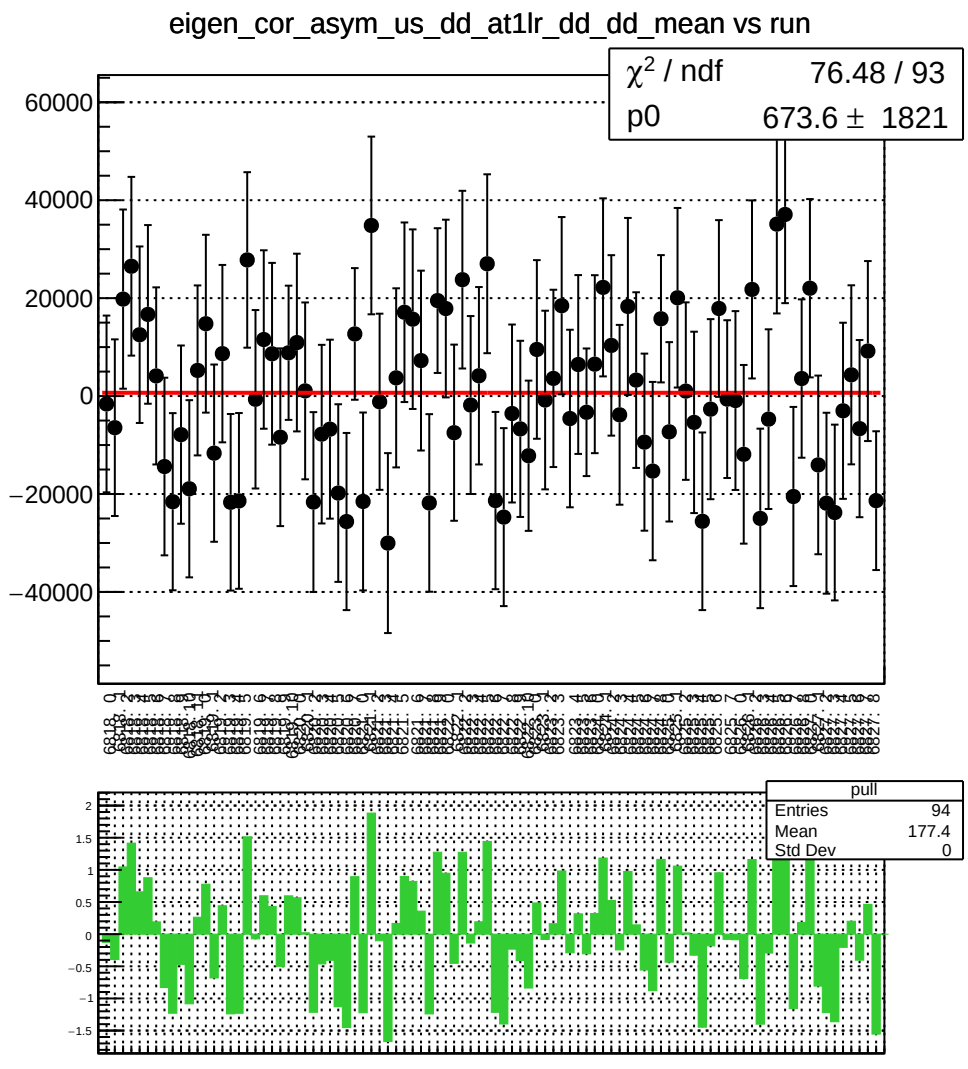

pull1D
Entries 94
Mean −0.005833
Std Dev 0.902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

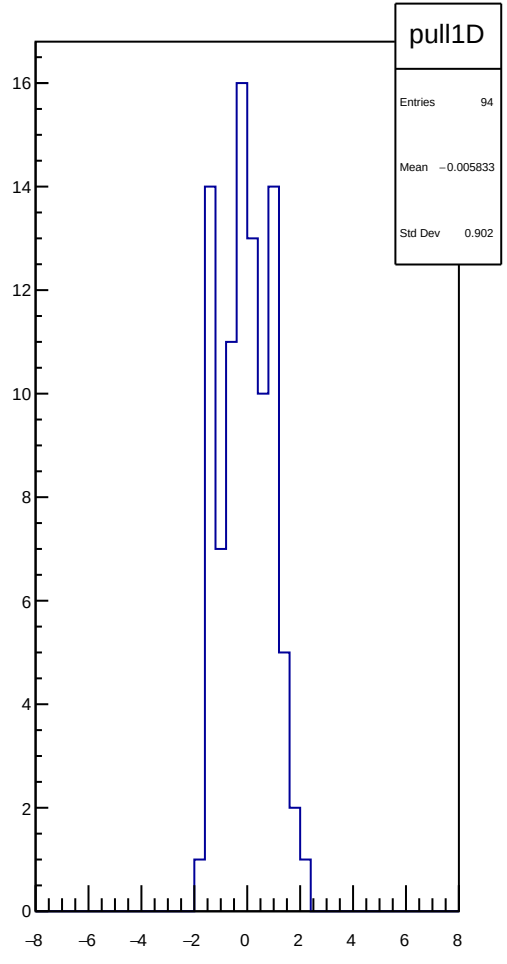

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.74 / 93
p0 1725 ± 1.288
1780
1760
1740
1720
1700
1680

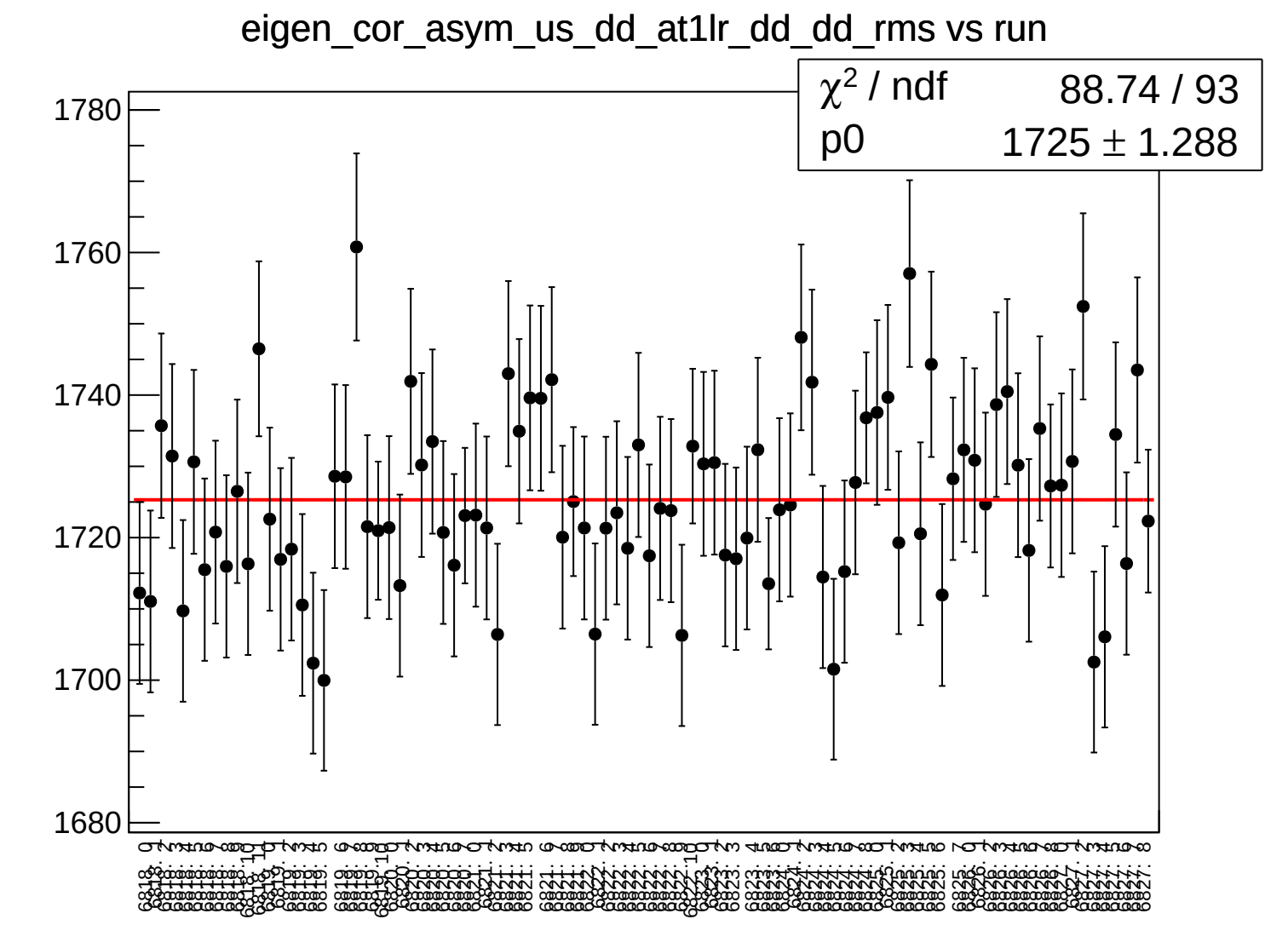

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 72.47 / 93
p0 −1457 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −179.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

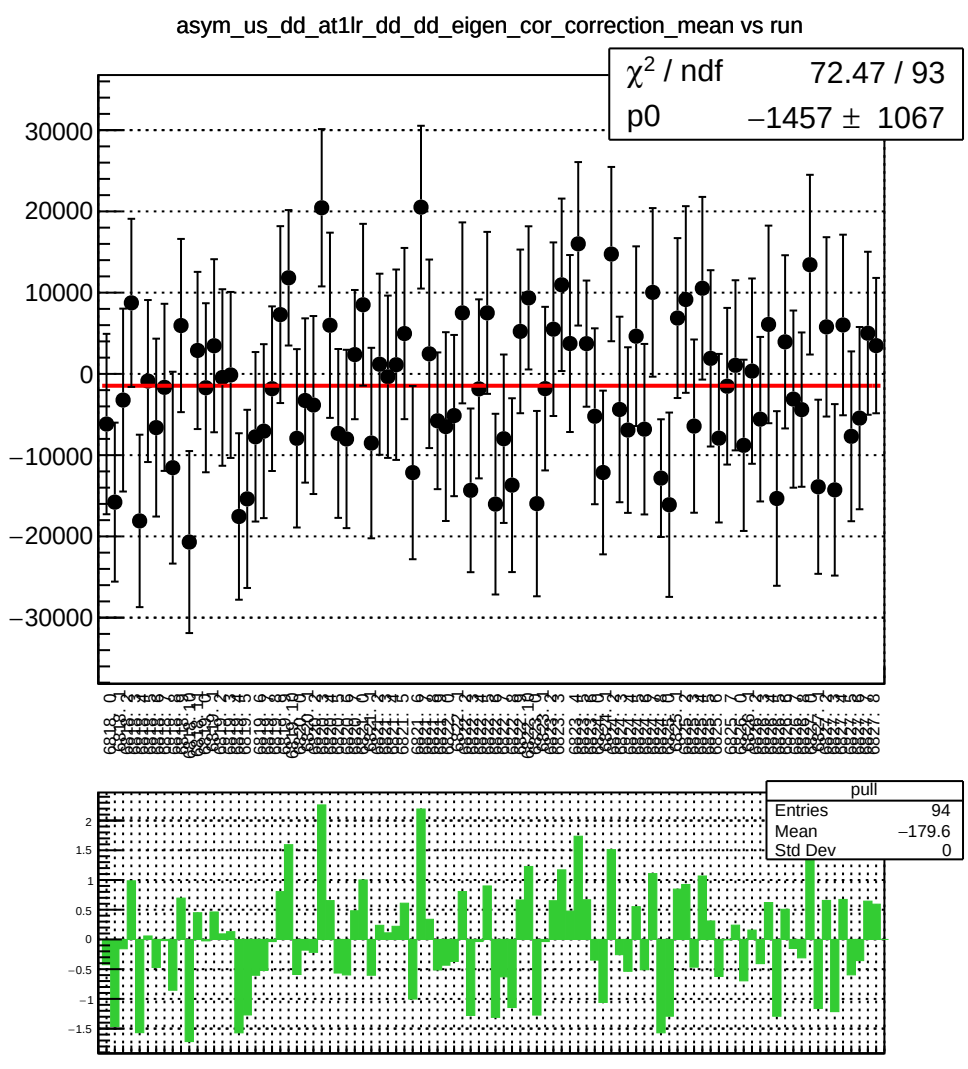

pull1D
Entries 94
Mean −0.009309
Std Dev 0.878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

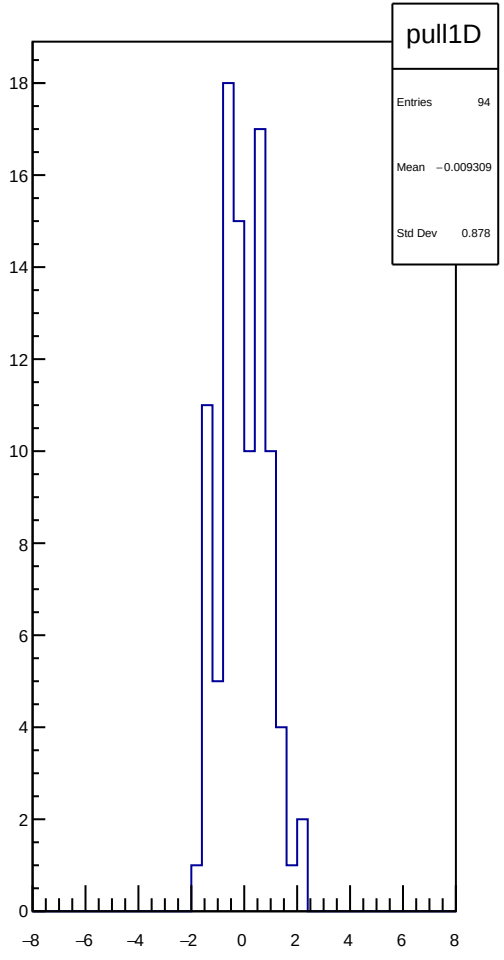

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 3914 / 93
p0 1010 ± 0.7544
1150
1100
1050
1000
950
900

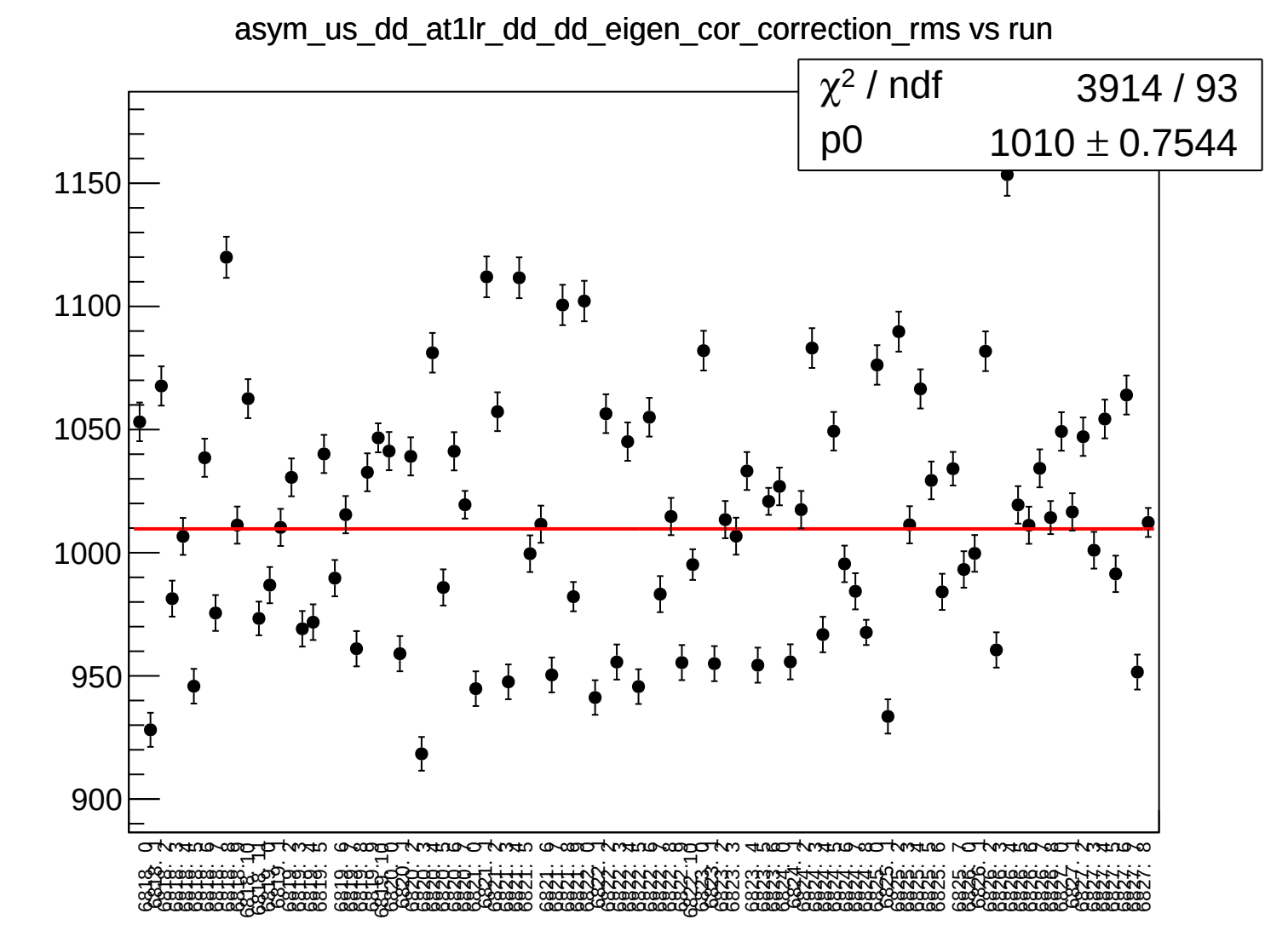

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.48 / 93
p0 673.6 ± 1821
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 177.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

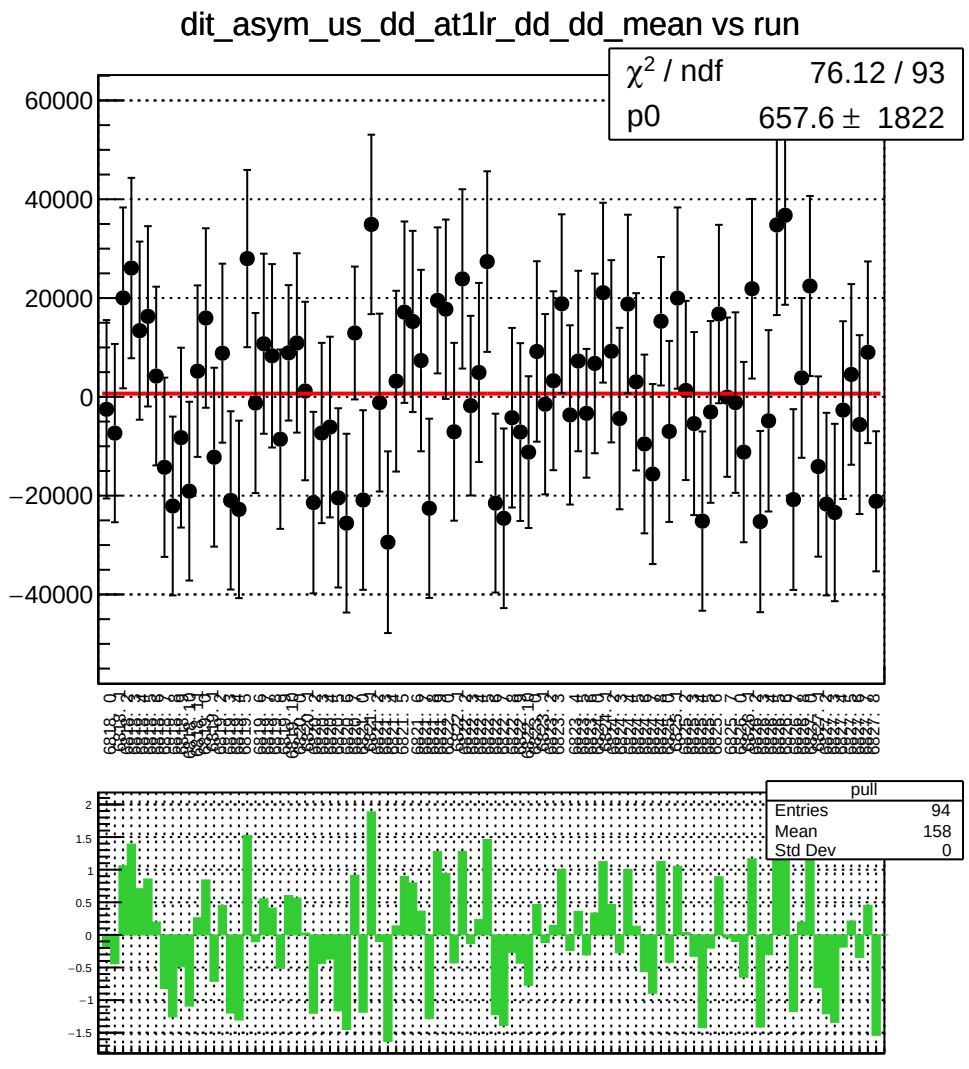

pull1D
Entries 94
Mean −0.005833
Std Dev 0.902
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

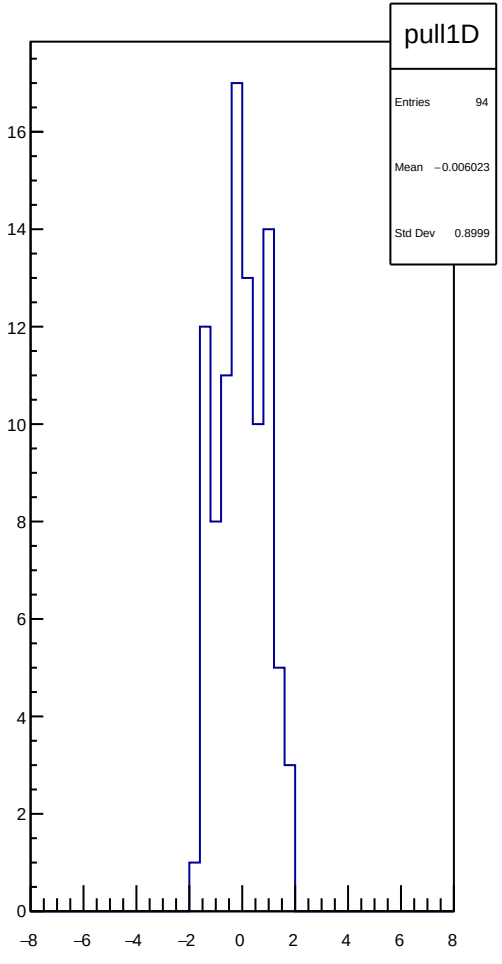

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 88.74 / 93
p0 1725 ± 1.288
1780
1760
1740
1720
1700
1680

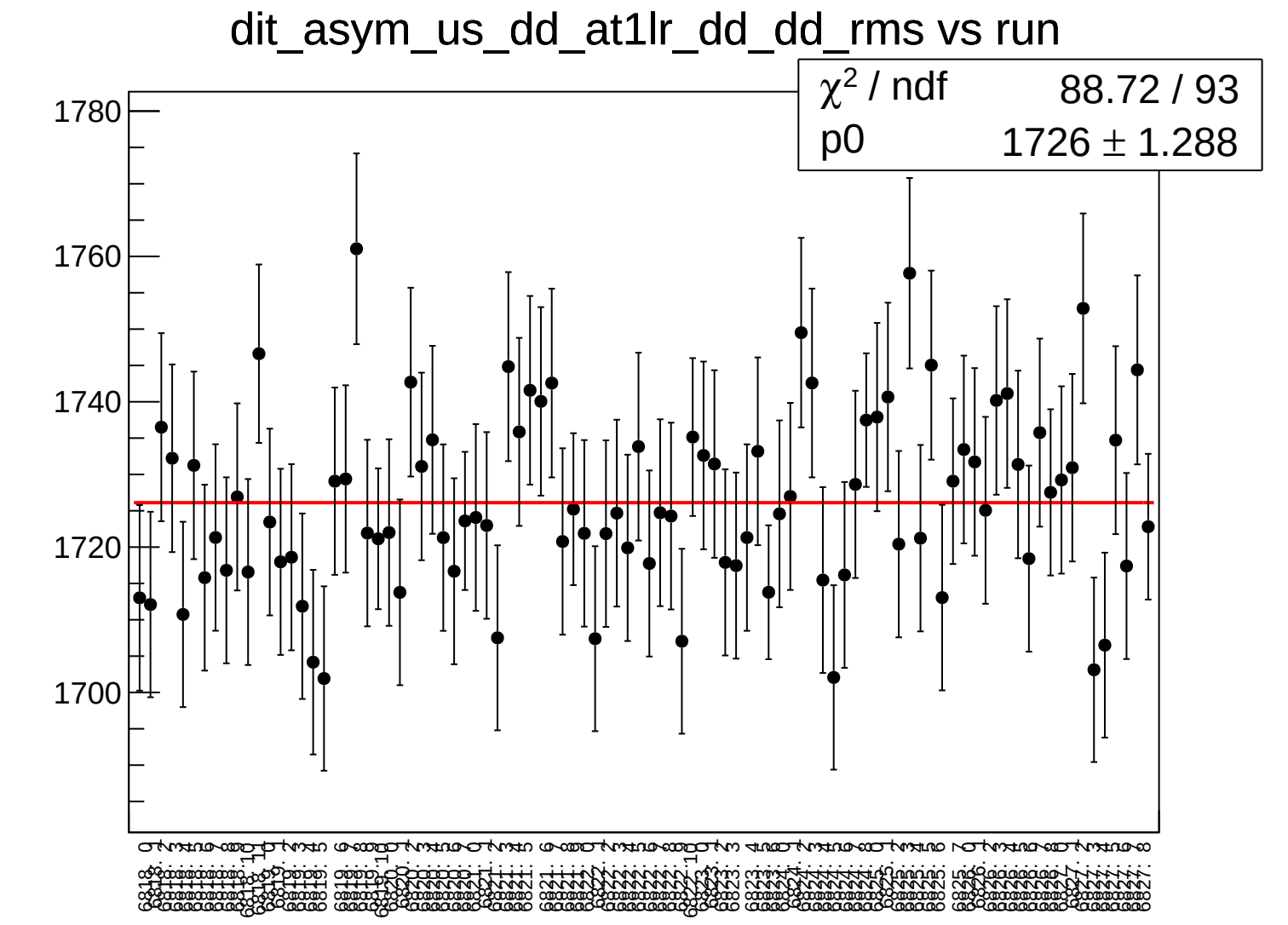

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.47 / 93
p0 −1457 ± 1067
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −179.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

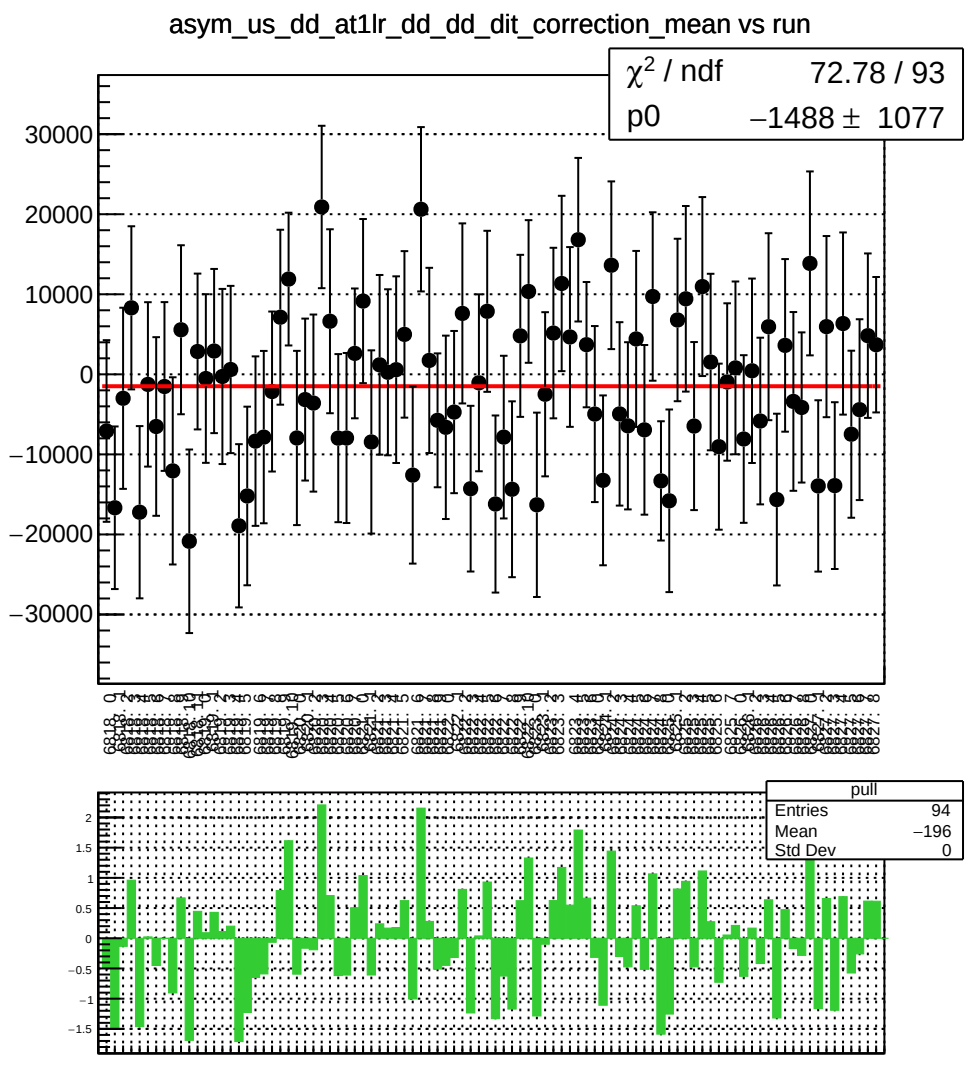

pull1D
Entries 94
Mean −0.009309
Std Dev 0.878
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

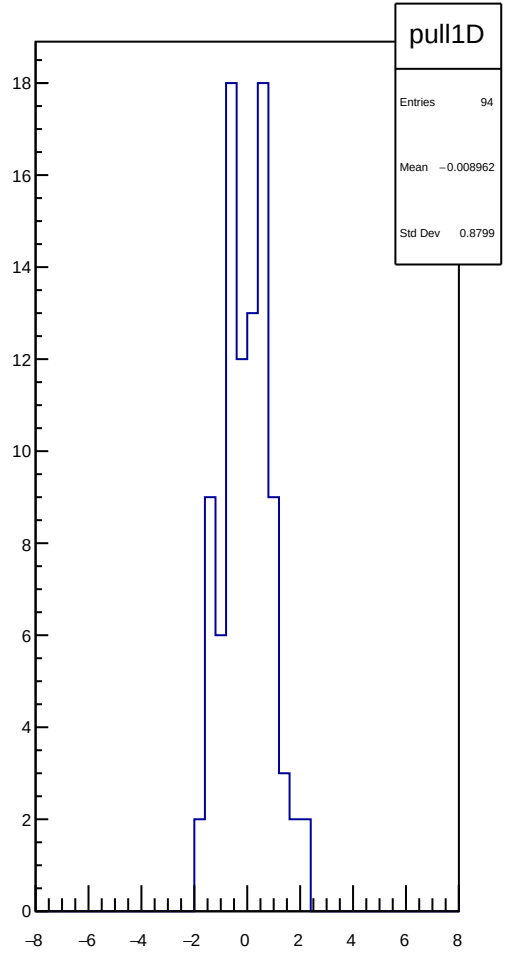

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3914 / 93
p0 1010 ± 0.7544
1150
1100
1050
1000
950
900

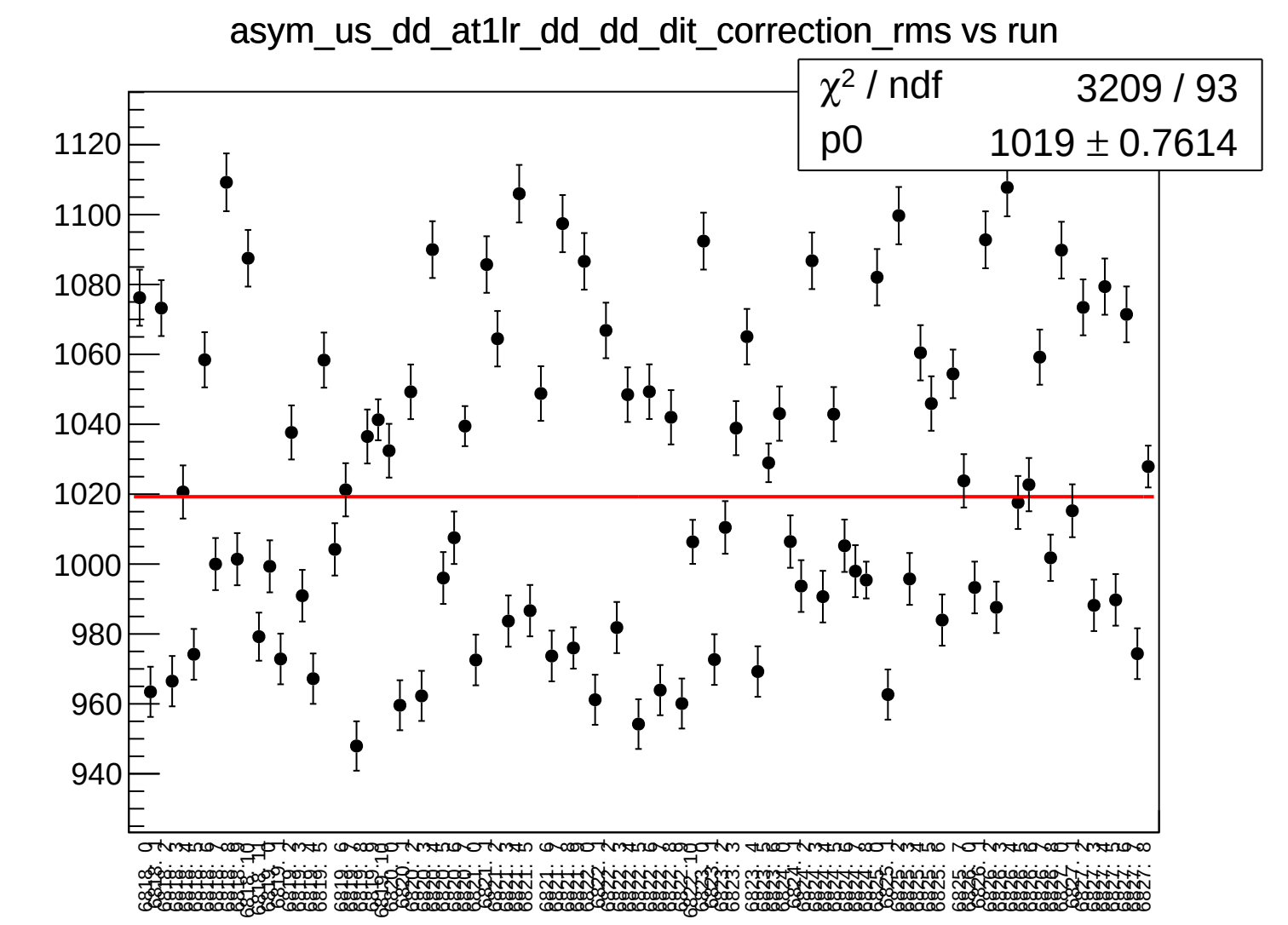

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.12 / 93
p0 657.6 ± 1822
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

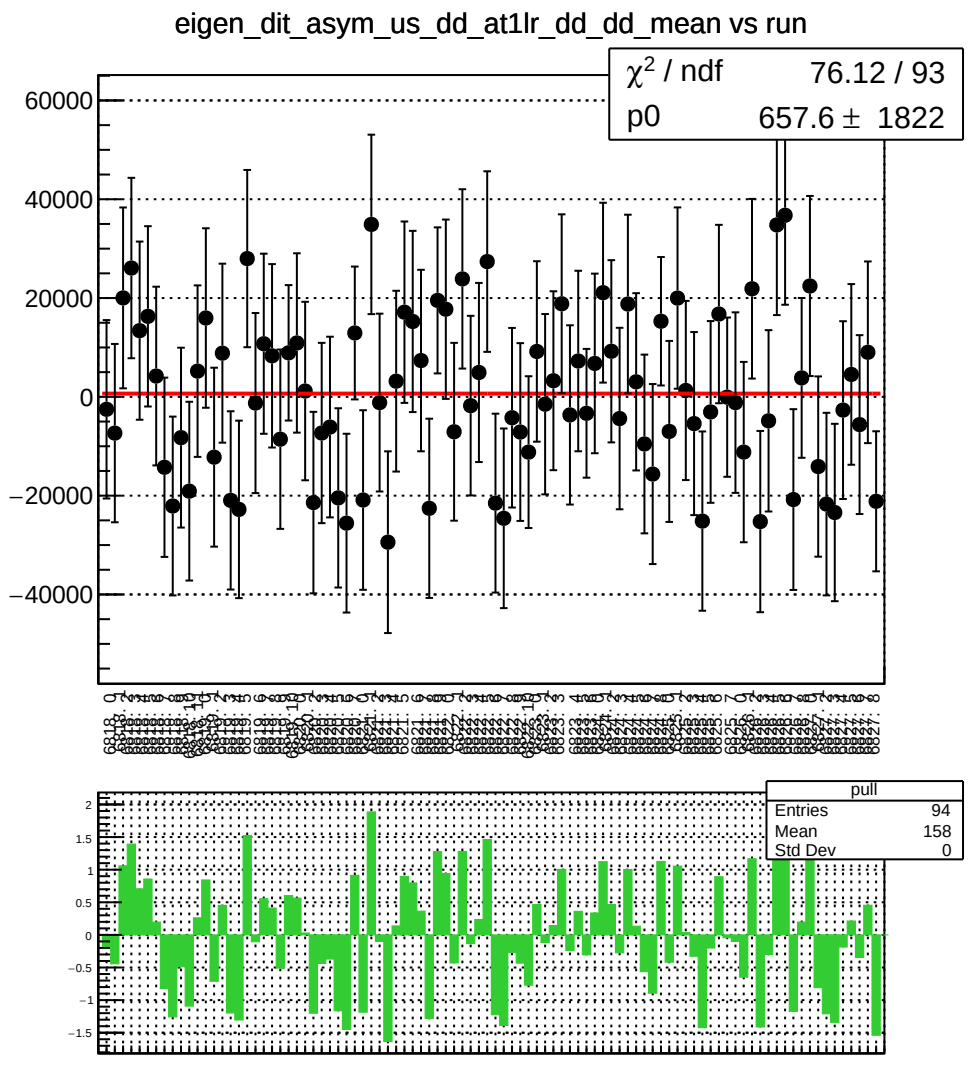

pull1D
Entries 94
Mean −0.006023
Std Dev 0.8999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

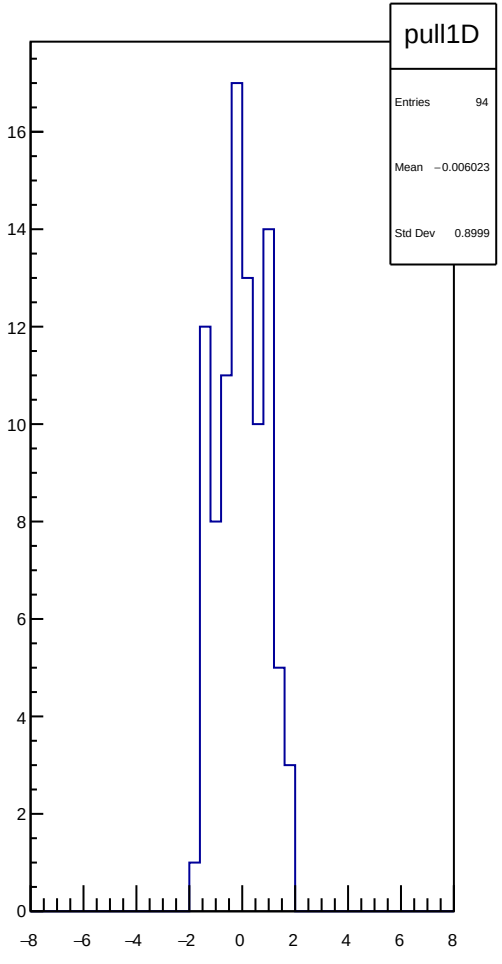

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.72 / 93
p0 1726 ± 1.288
1780
1760
1740
1720
1700

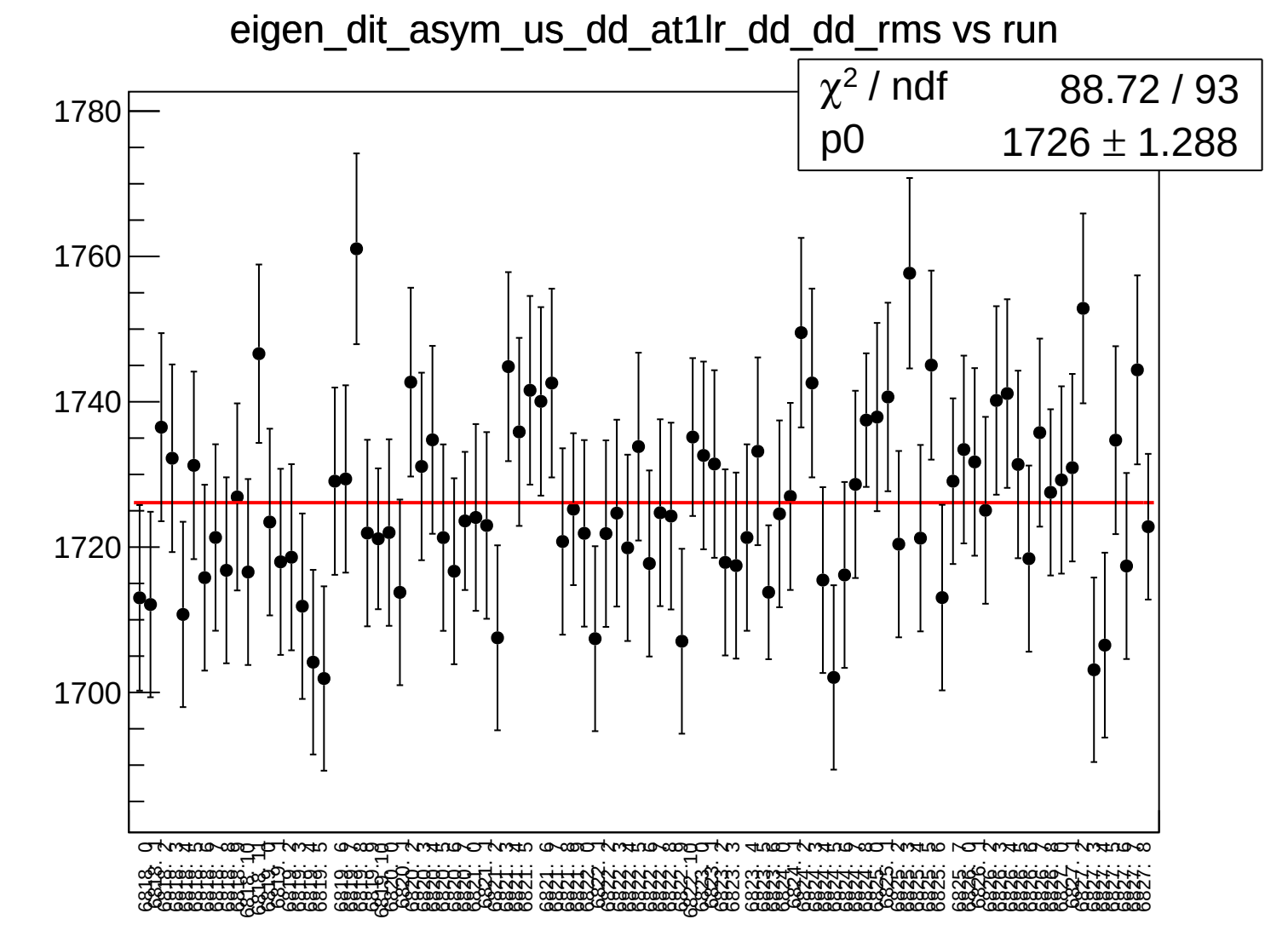

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 72.78 / 93
p0 −1488 ± 1077
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −196
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

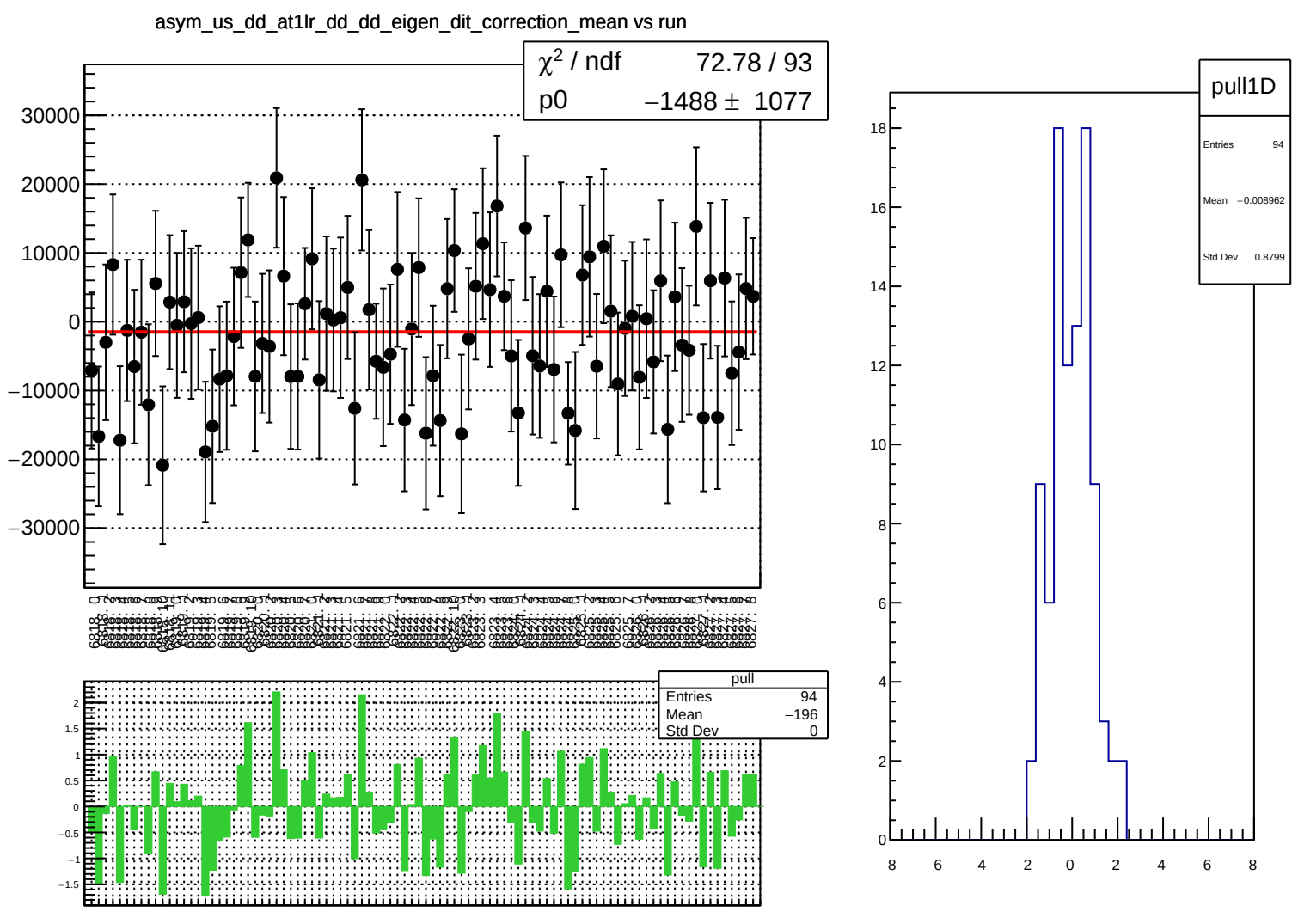

pull1D
Entries 94
Mean −0.008962
Std Dev 0.8799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

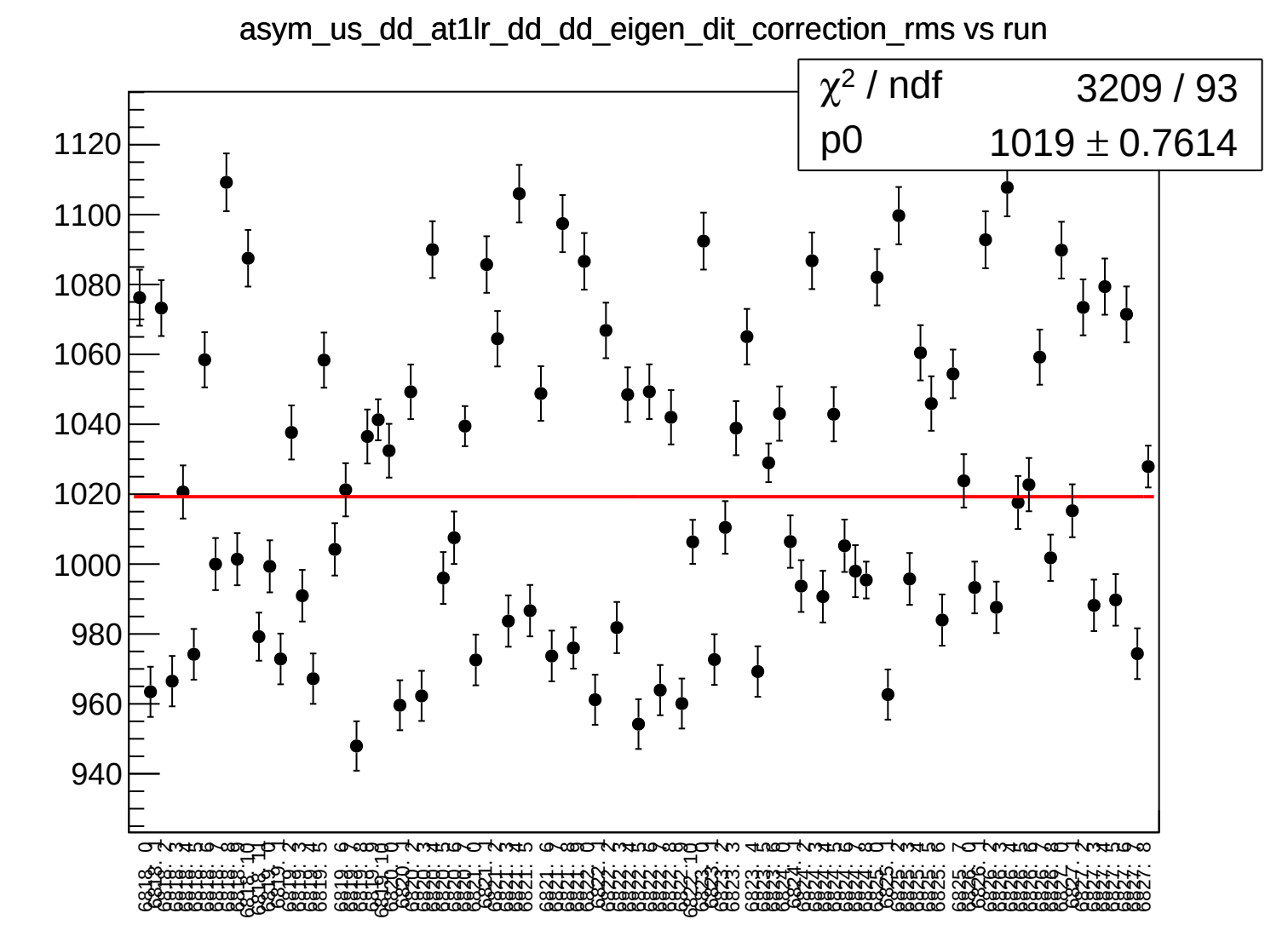

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 3209 / 93
p0 1019 ± 0.7614
1120
1100
1080
1060
1040
1020
1000
980
960
940

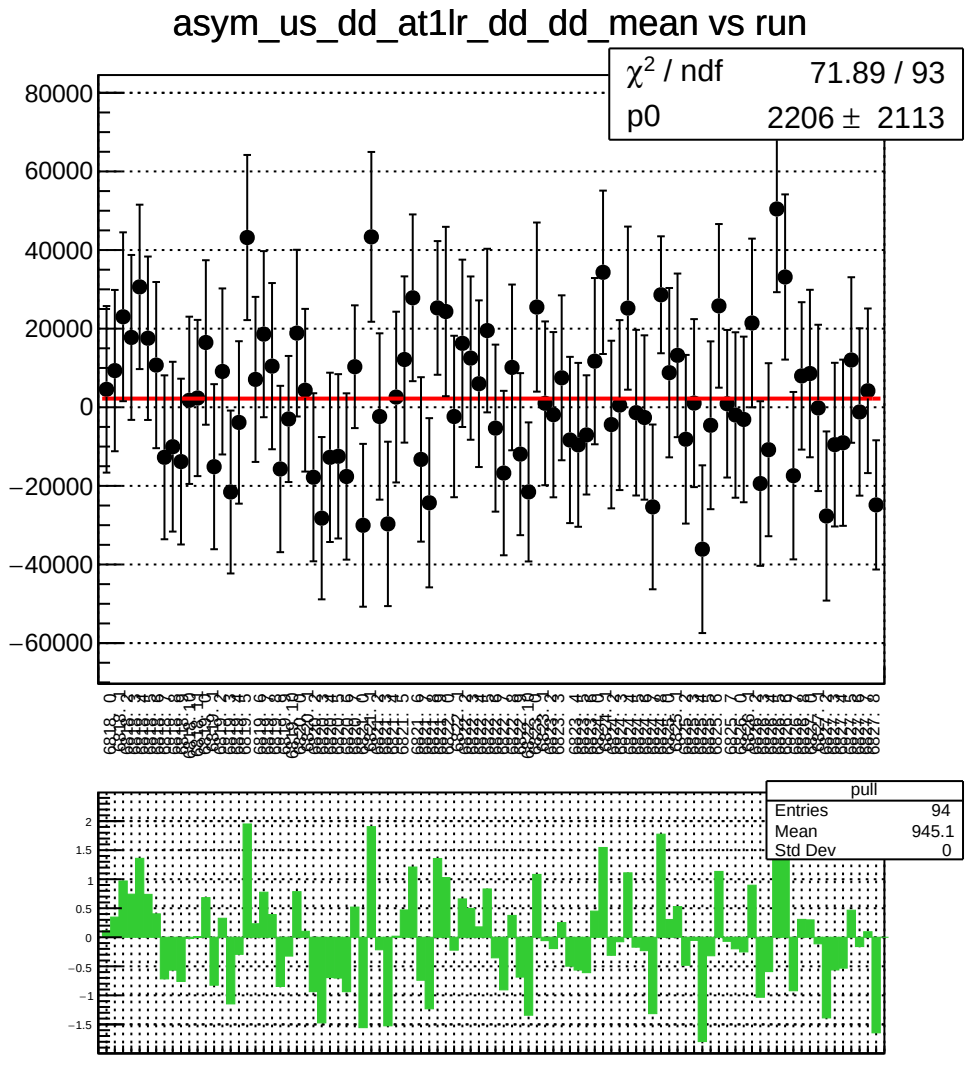

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 76.12 / 93
p0 657.6 ± 1822
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean 158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

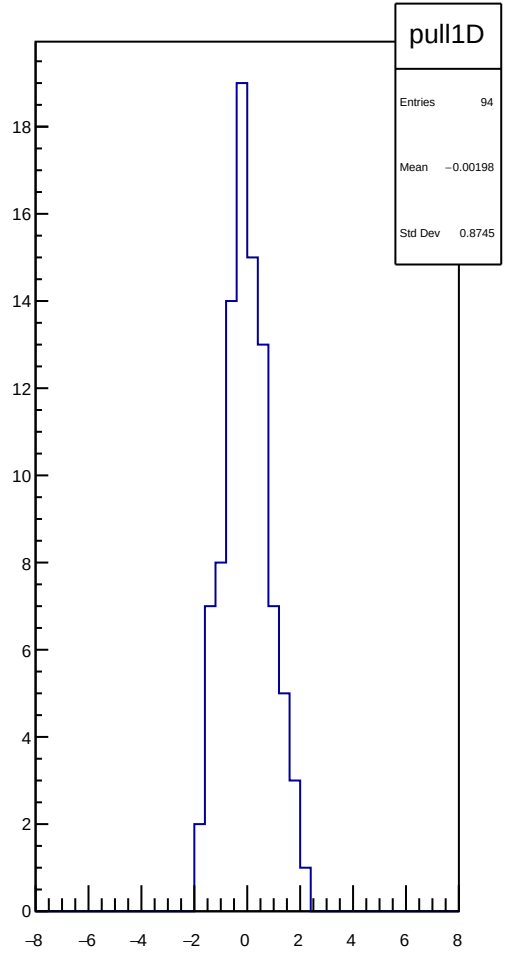

pull1D
Entries 94
Mean −0.006023
Std Dev 0.8999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

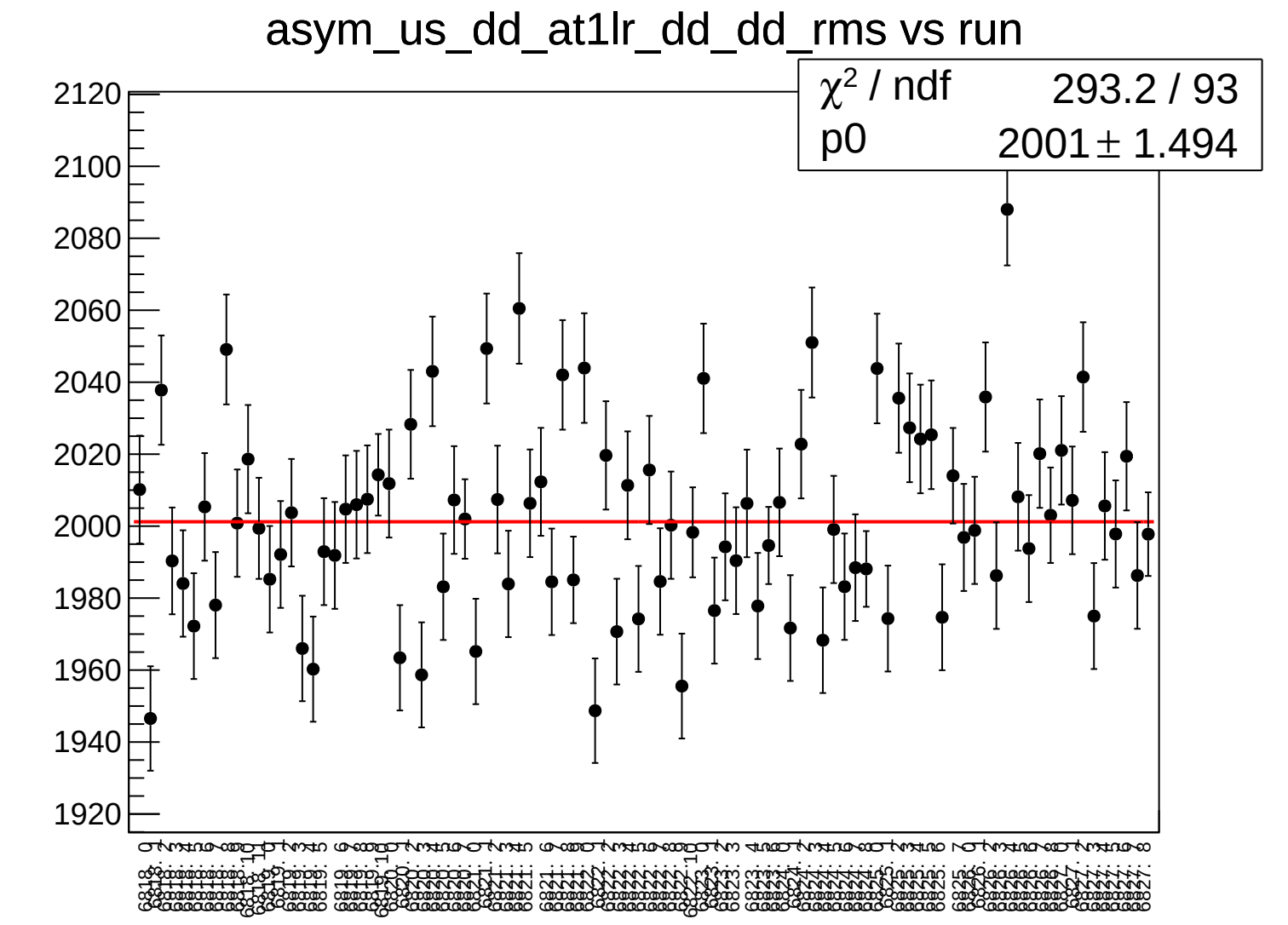

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 88.72 / 93
p0 1726 ± 1.288
1780
1760
1740
1720
1700

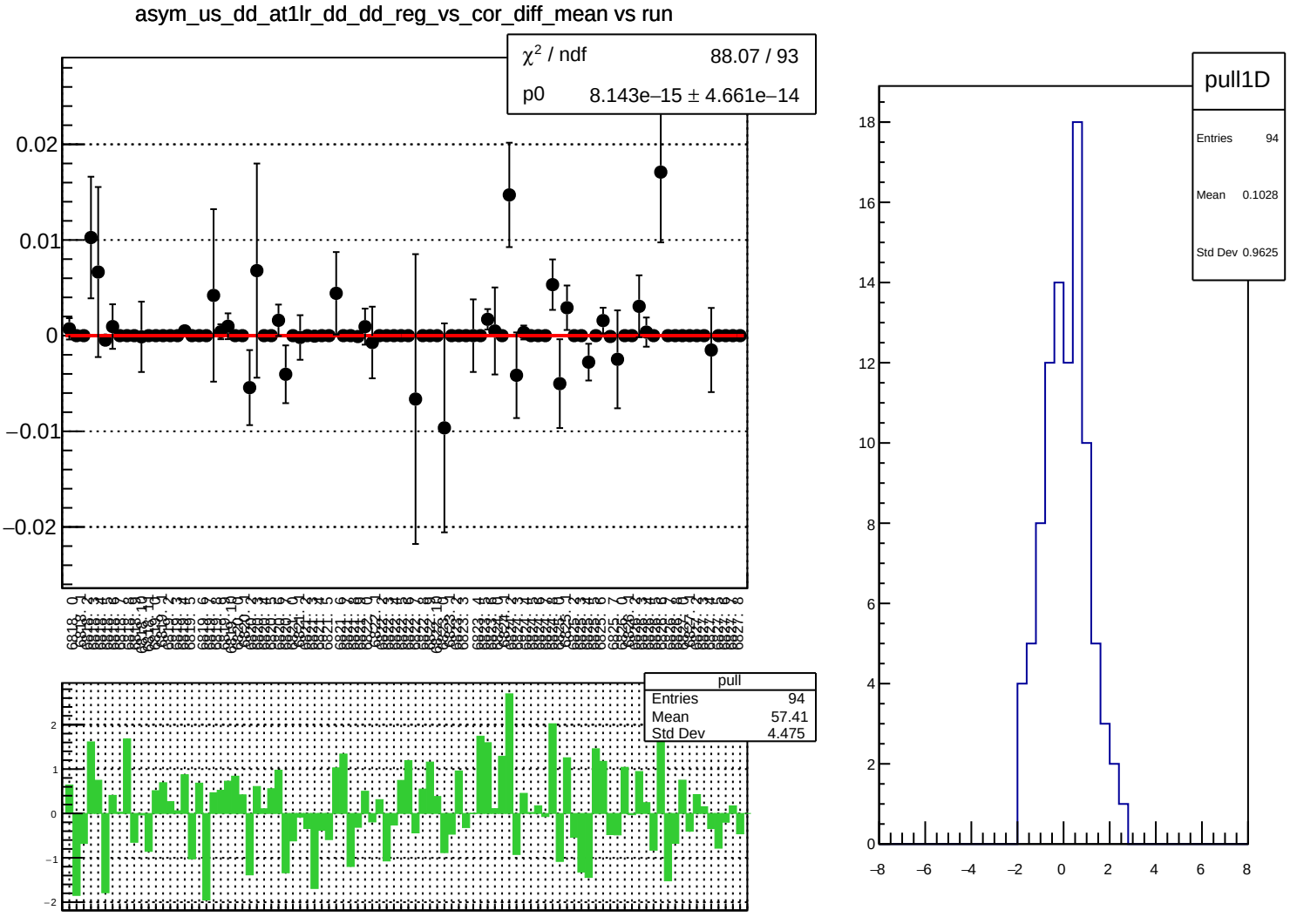

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.78 / 93
p0 −1488 ± 1077
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −196
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.008962
Std Dev 0.8799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

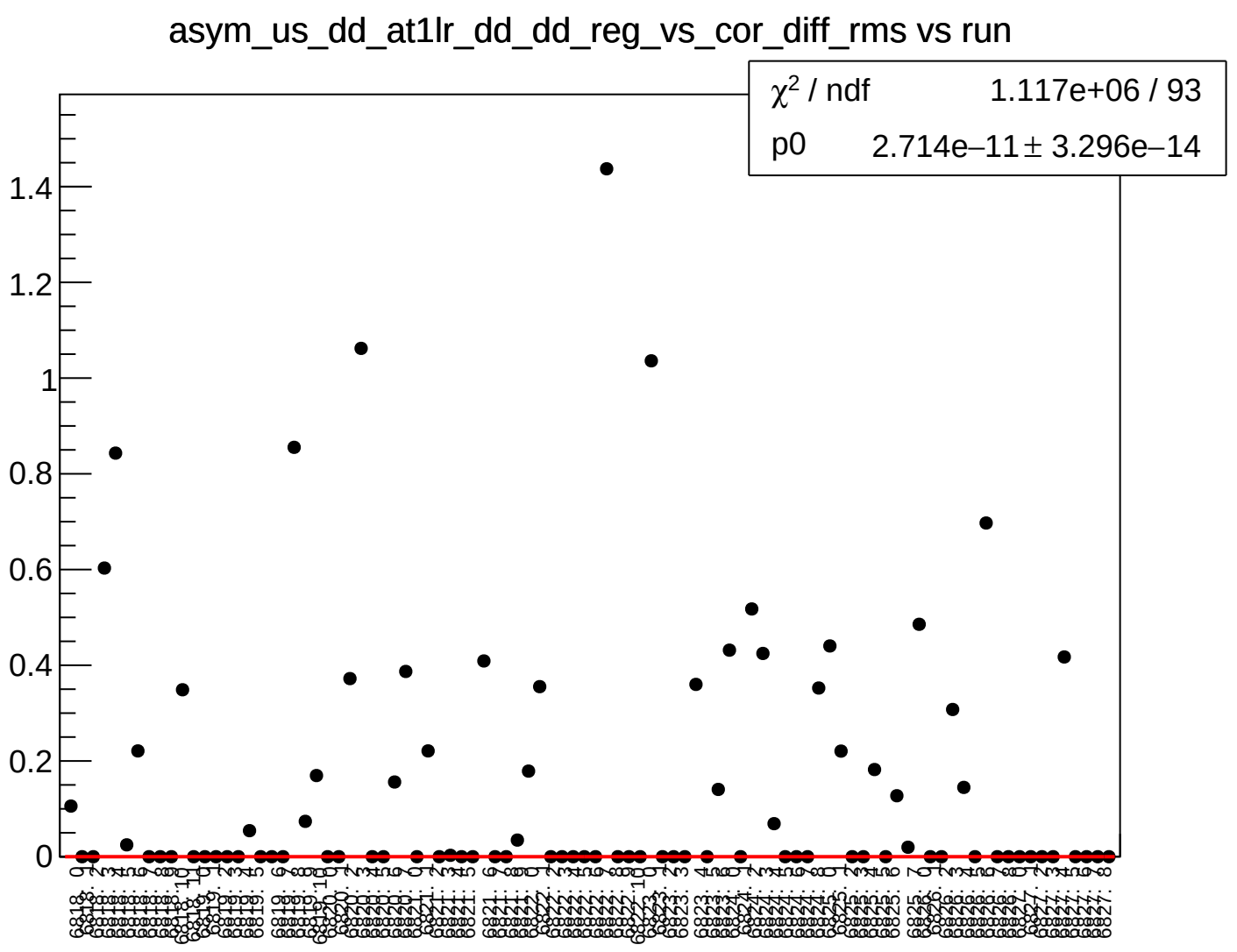

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3209 / 93
p0 1019 ± 0.7614
1120
1100
1080
1060
1040
1020
1000
980
960
940

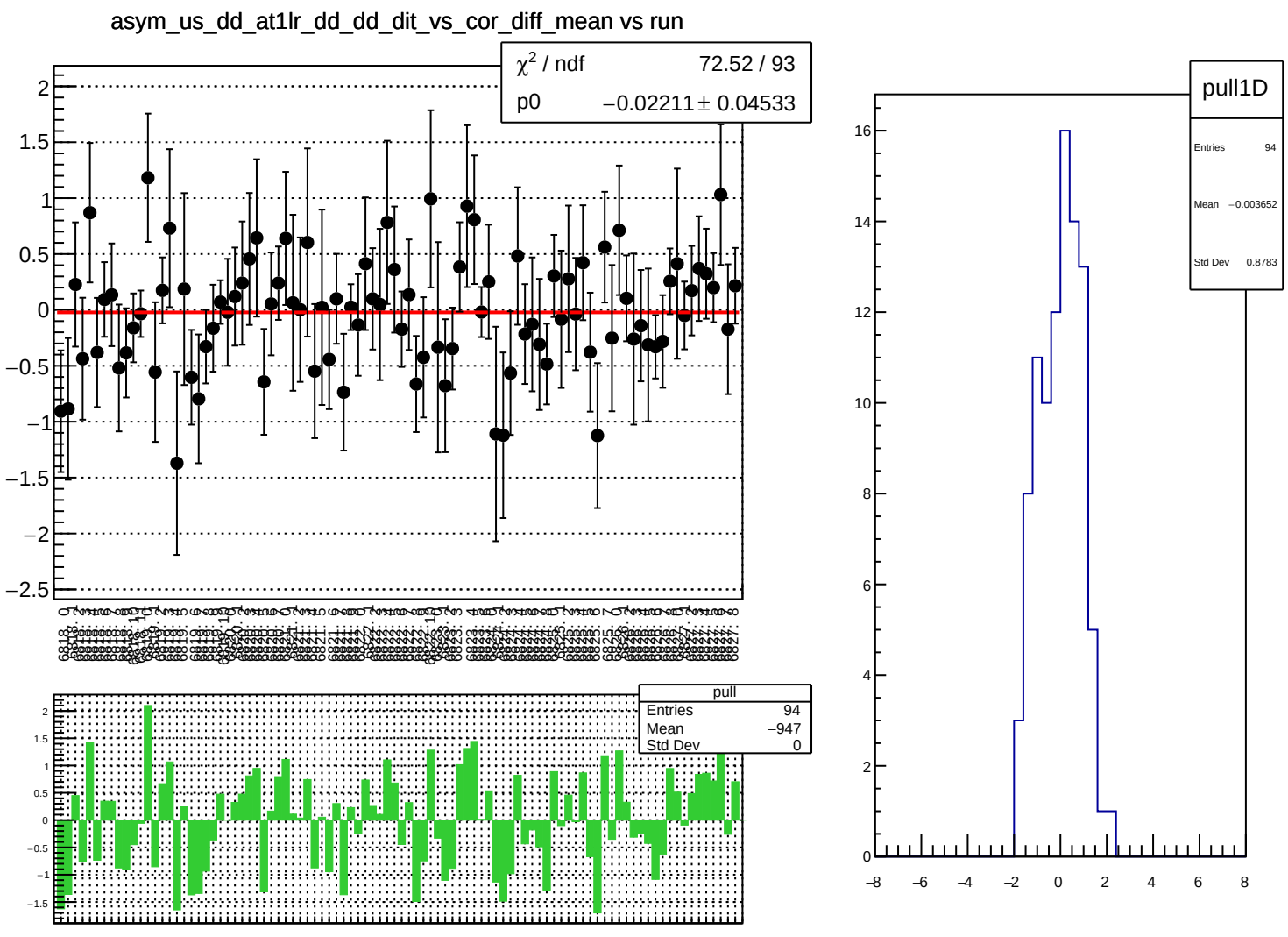

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 71.89 / 93
p0 2206 ± 2113
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 945.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

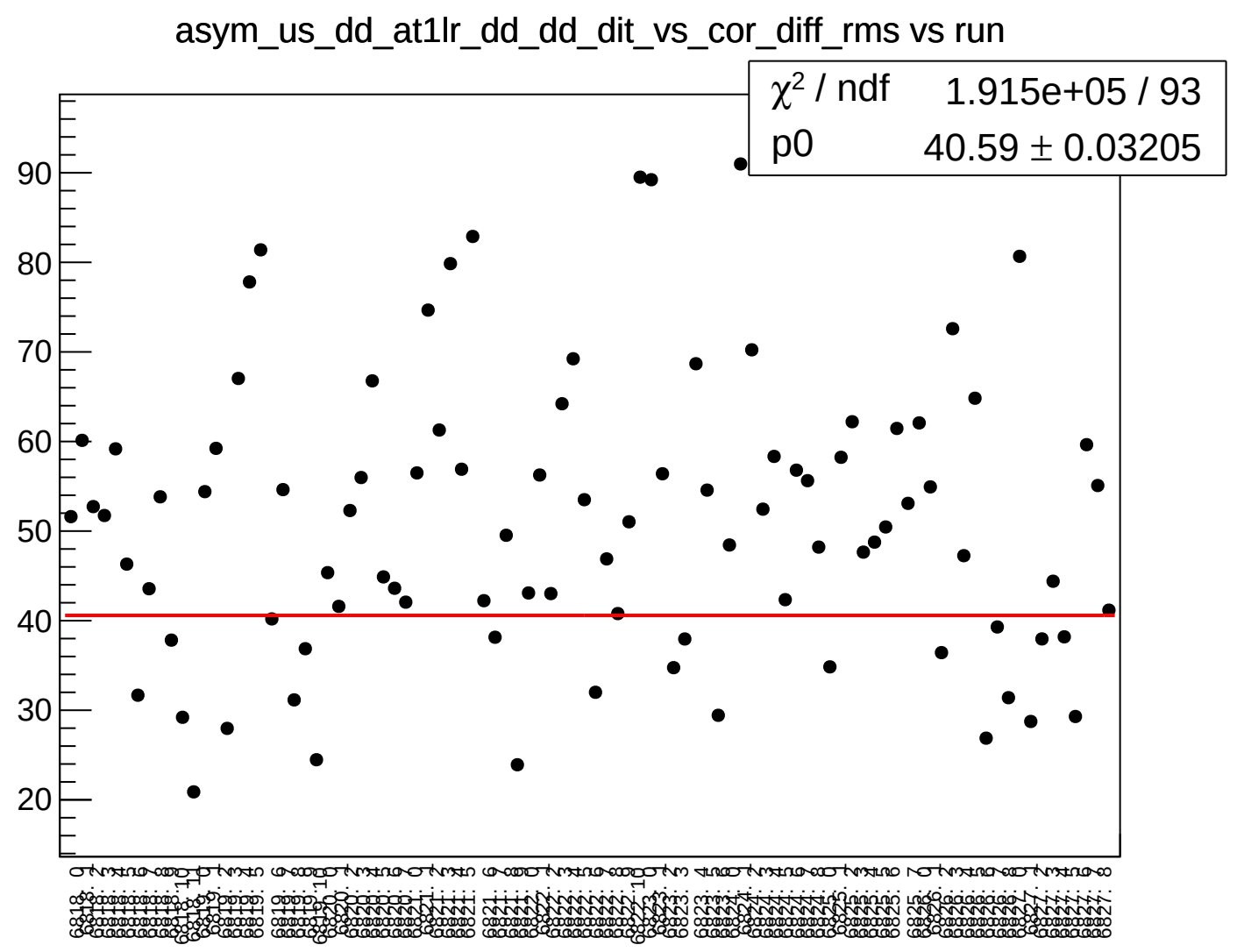

pull1D
Entries 94
Mean −0.00198
Std Dev 0.8745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

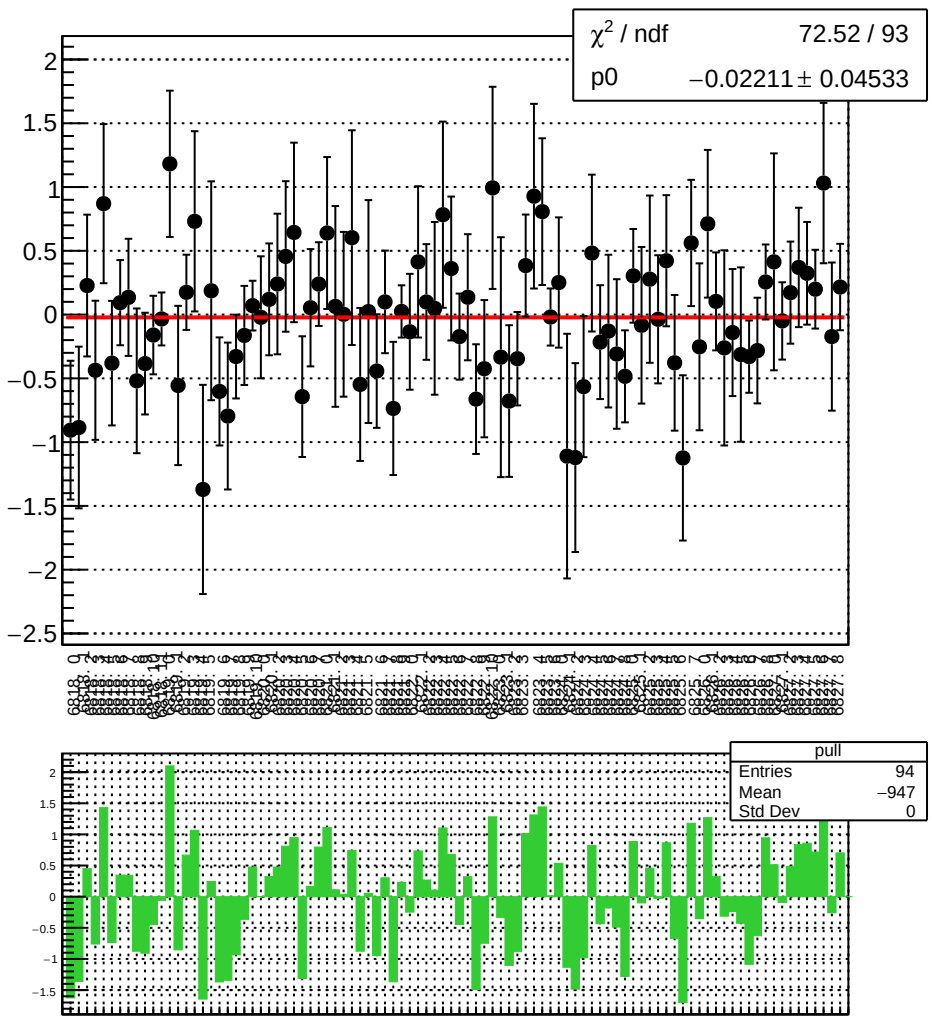

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 293.2 / 93
p0 2001 ± 1.494
2120
2100
2080
2060
2040
2020
2000
1980
1960
1940
1920

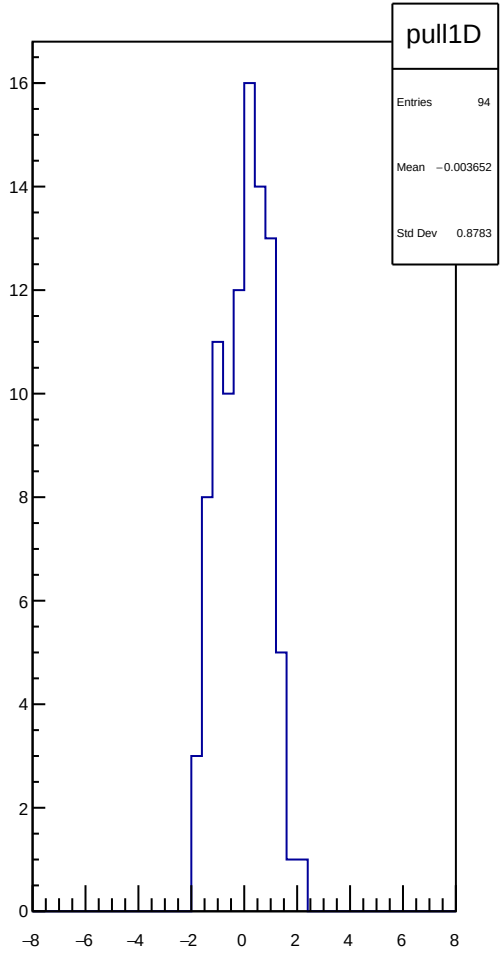

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.07 / 93
p0 8.143e−15 ± 4.661e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 94
Mean 57.41
Std Dev 4.475
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.1028
Std Dev 0.9625
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

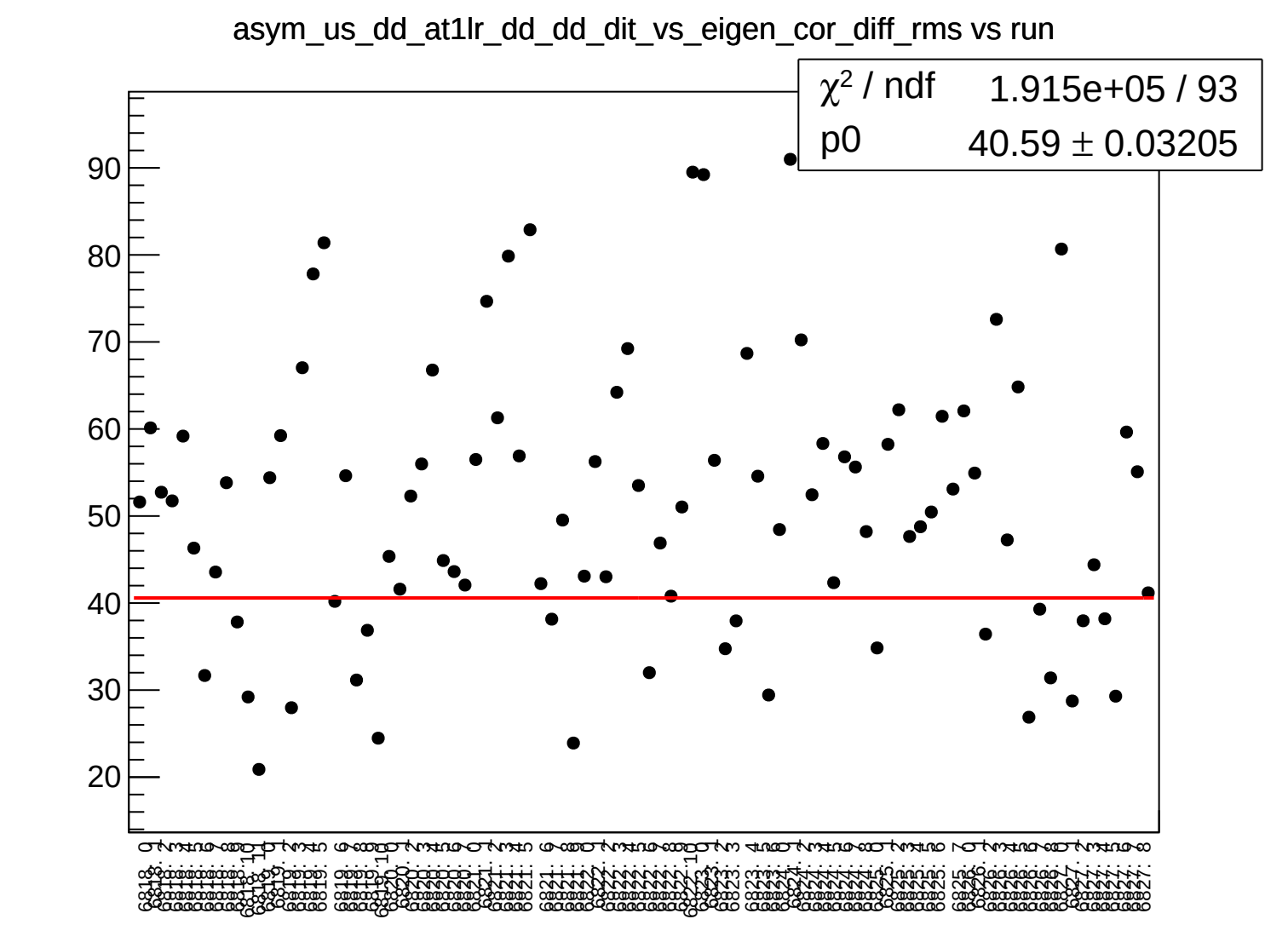

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.117e+06 / 93
p0 2.714e−11 ± 3.296e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

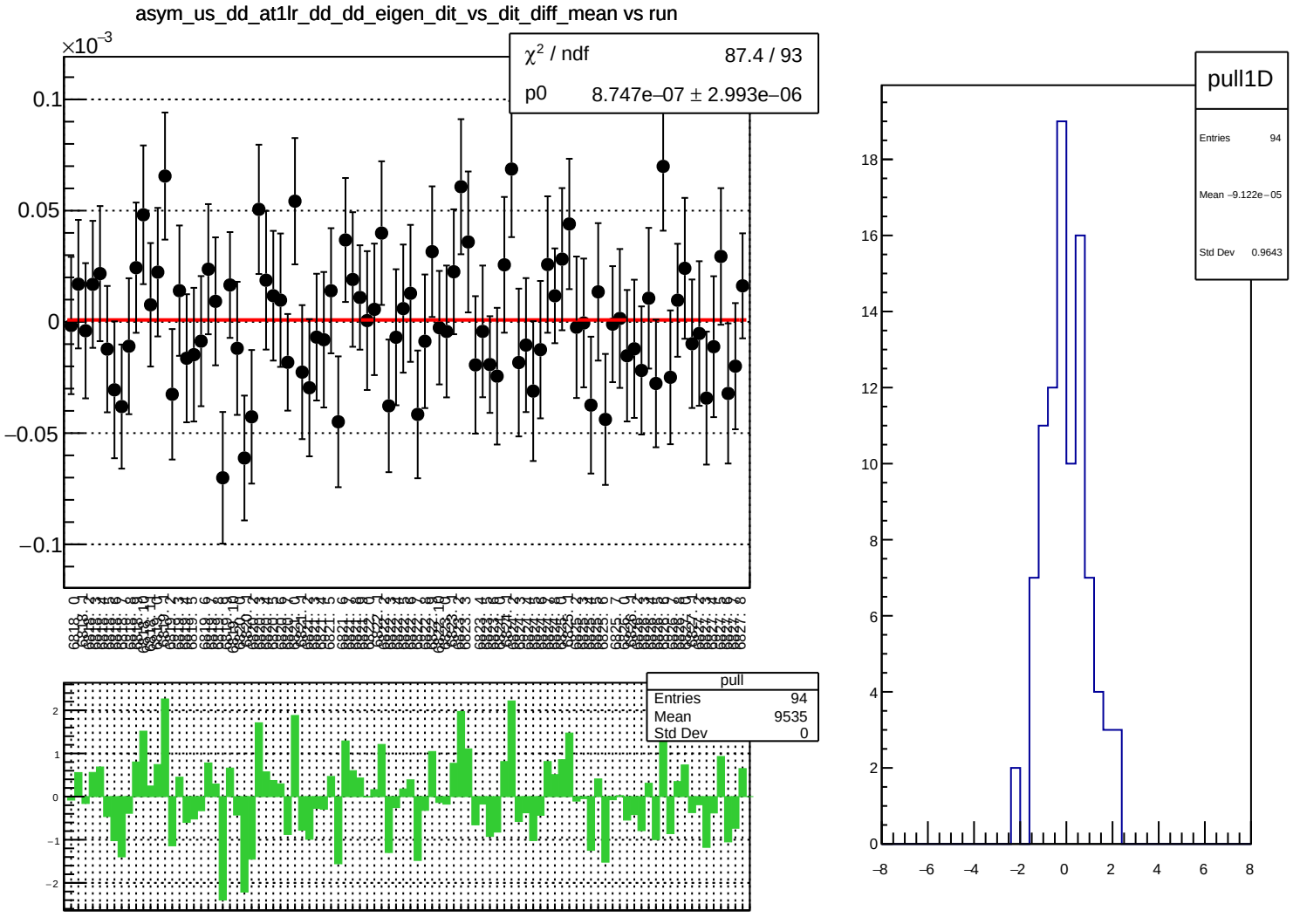

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 93
p0 −0.02211 ± 0.04533
pull
Entries 94
Mean −947
Std Dev 0
pull1D
Entries 94
Mean −0.003652
Std Dev 0.8783

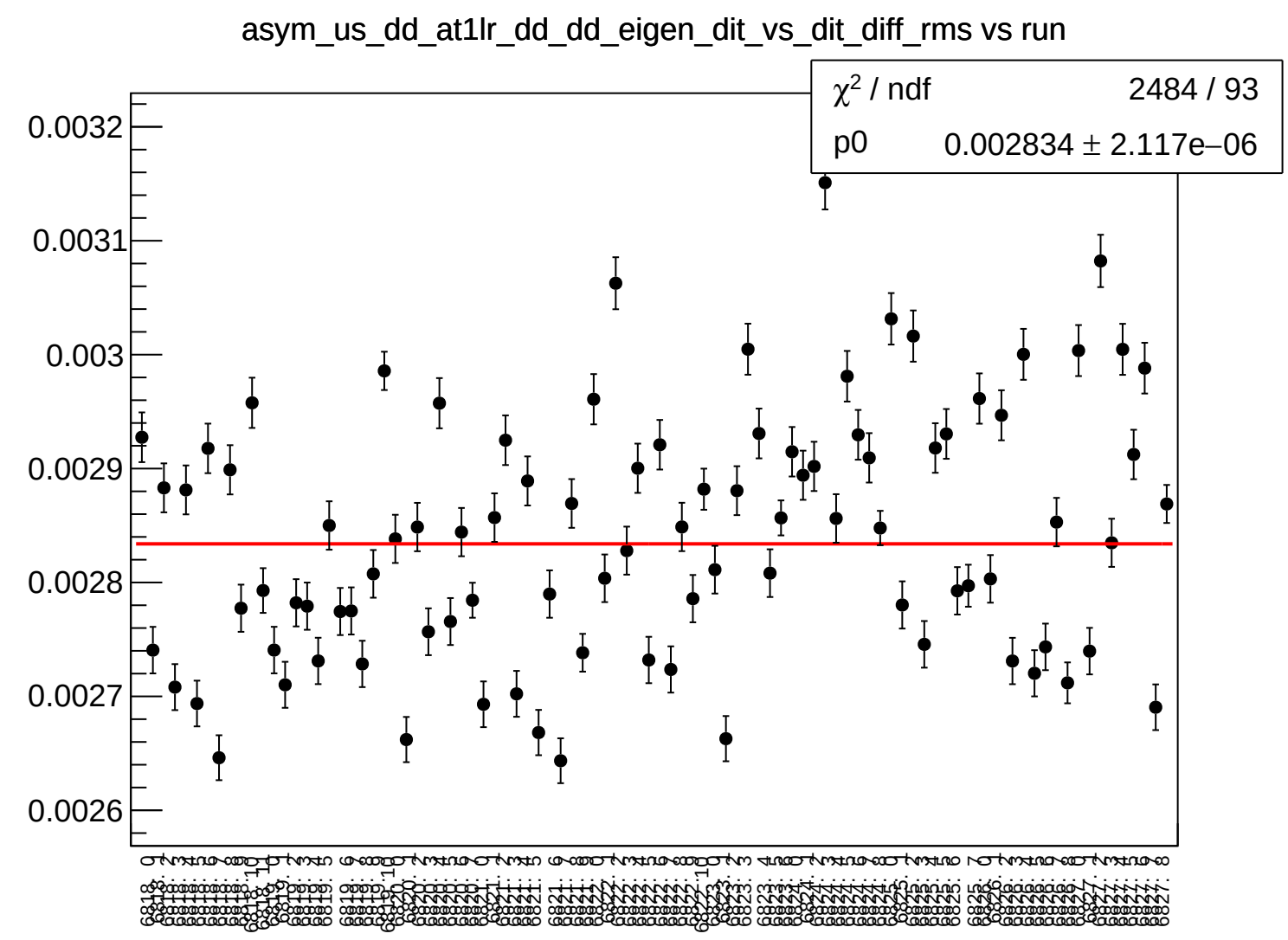

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.915e+05 / 93
p0 40.59 ± 0.03205
90
80
70
60
50
40
30
20

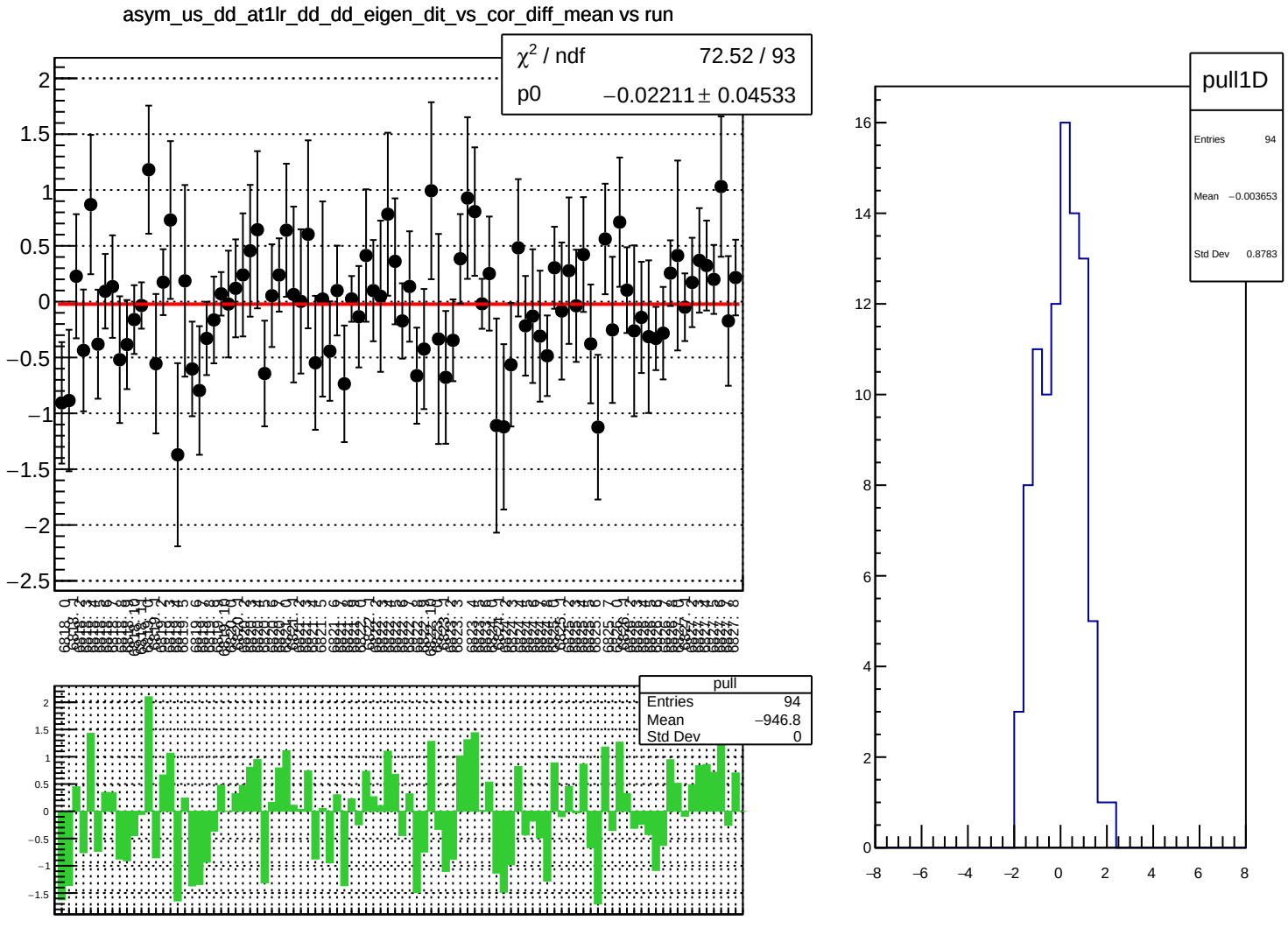

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.52 / 93
p0 −0.02211 ± 0.04533
pull
Entries 94
Mean −947
Std Dev 0

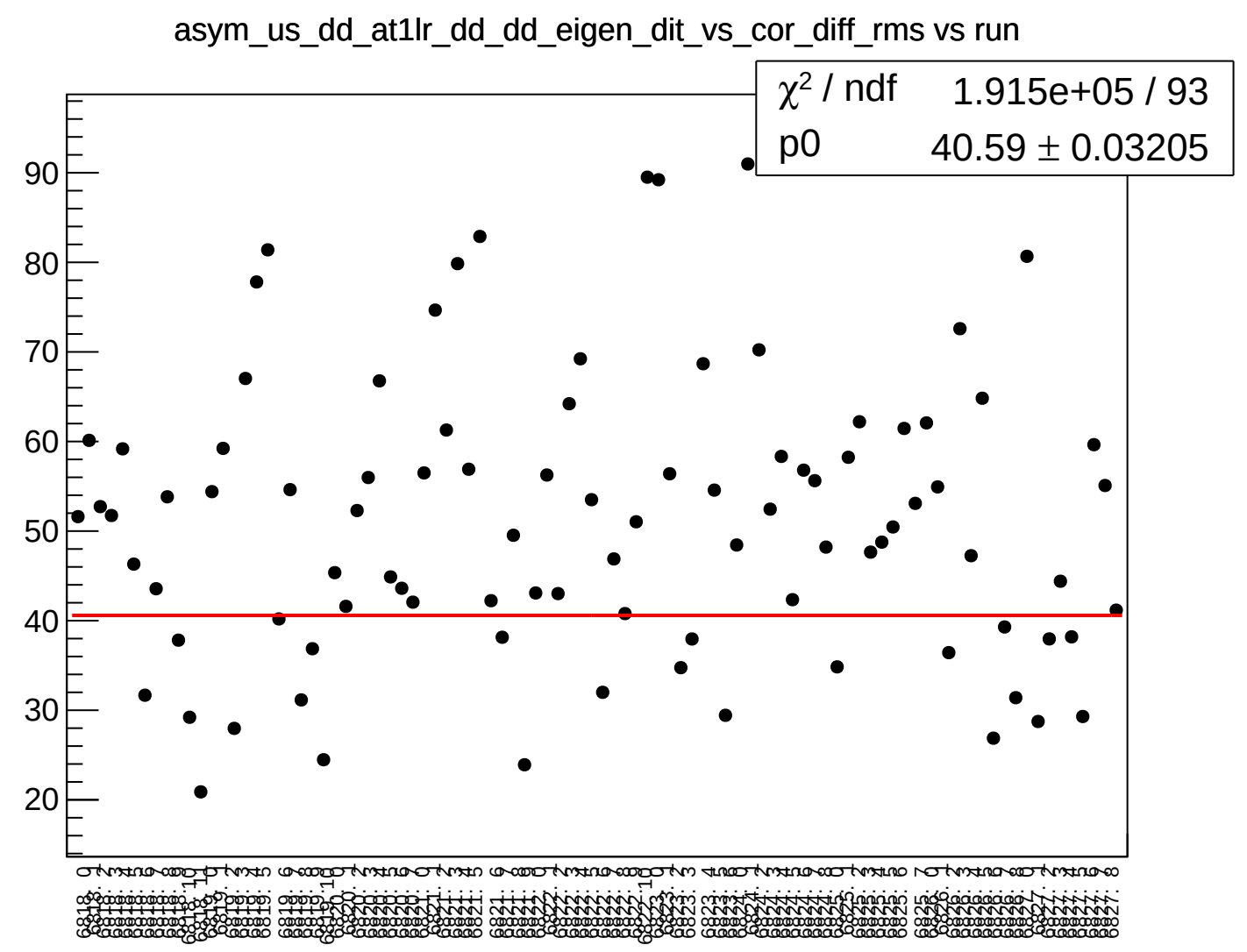

pull1D
Entries 94
Mean −0.003652
Std Dev 0.8783

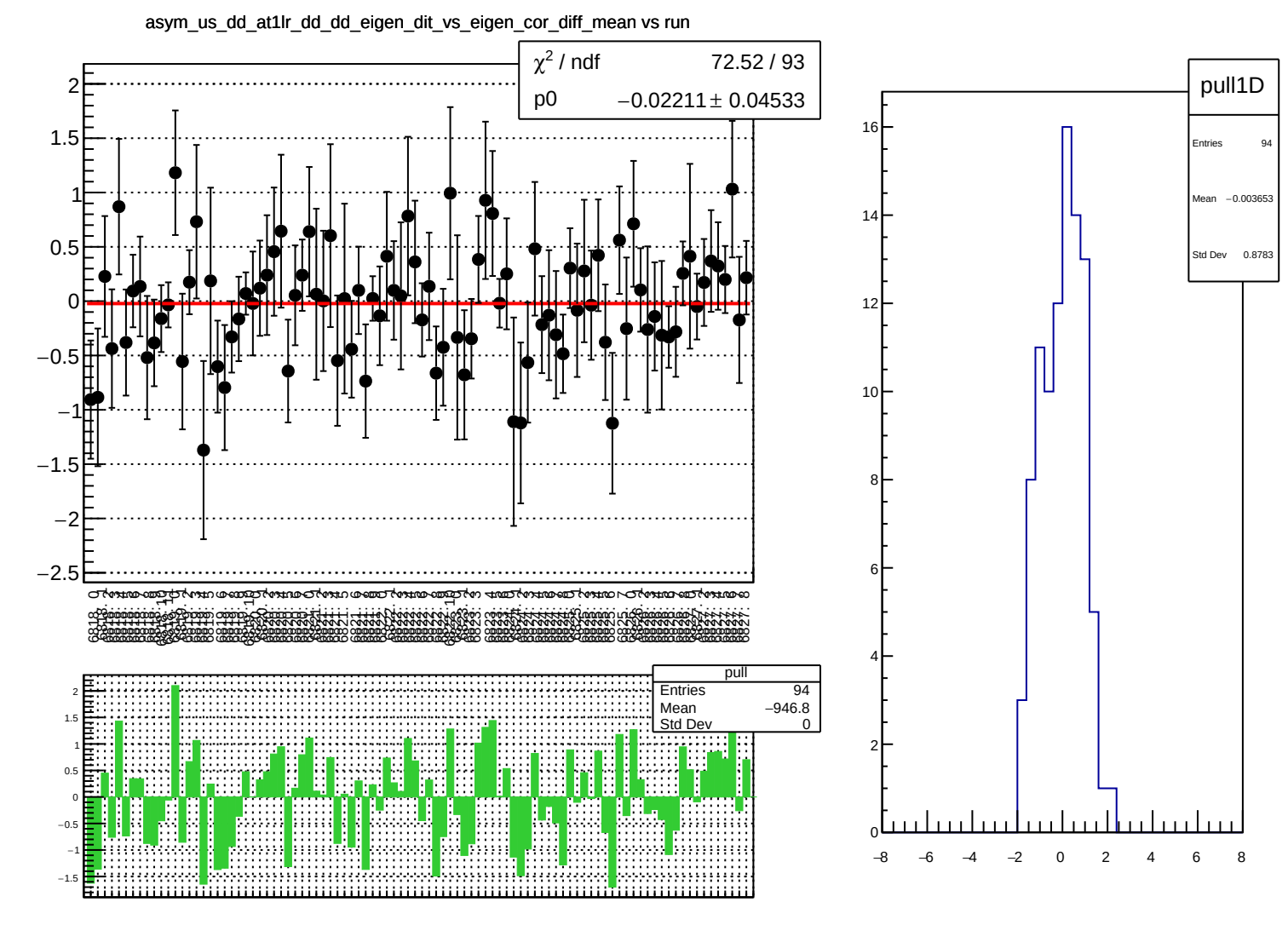

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.915e+05 / 93
p0 40.59 ± 0.03205
90
80
70
60
50
40
30
20

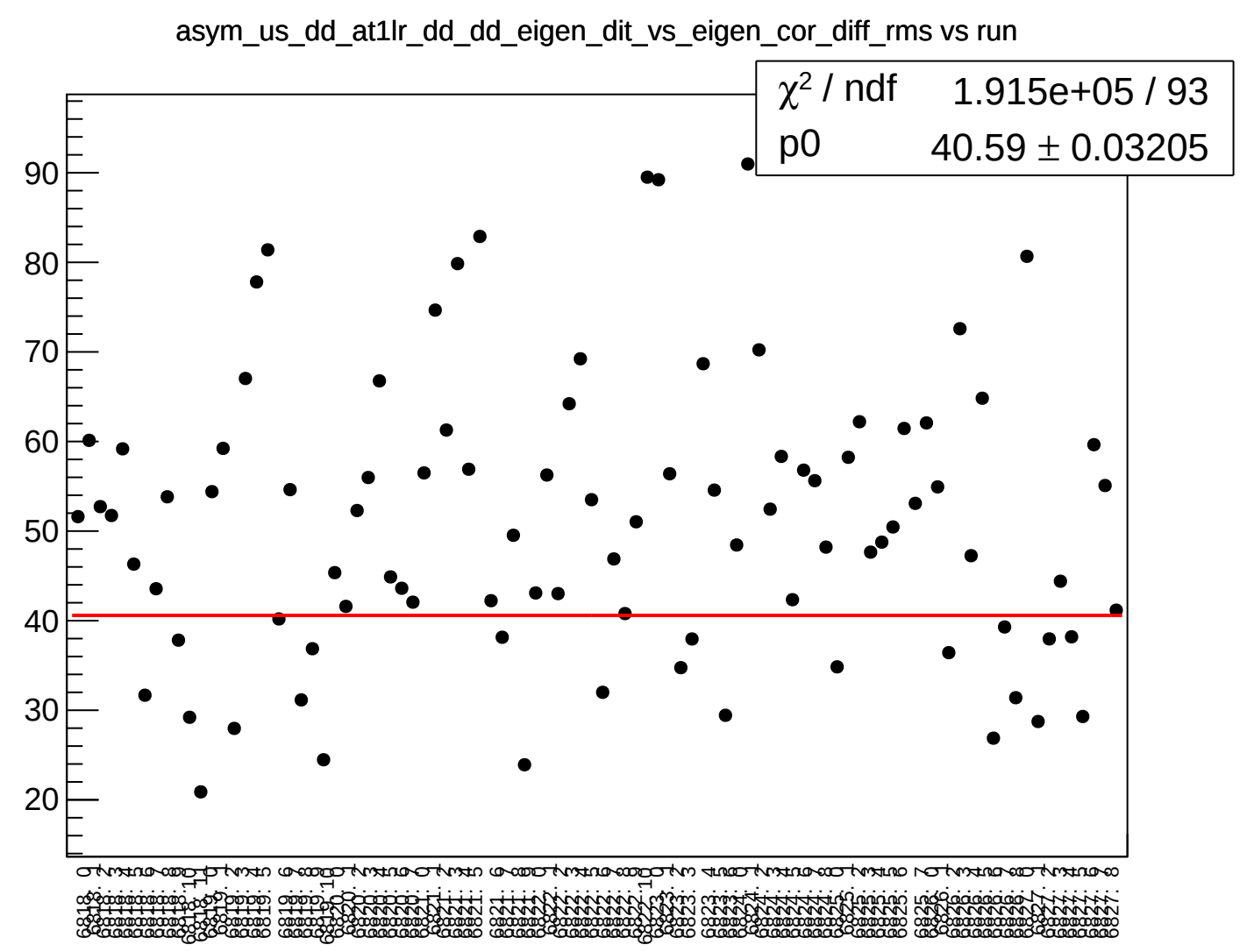

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.4 / 93
p0 8.747e−07 ± 2.993e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 9535
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −9.122e−05
Std Dev 0.9643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

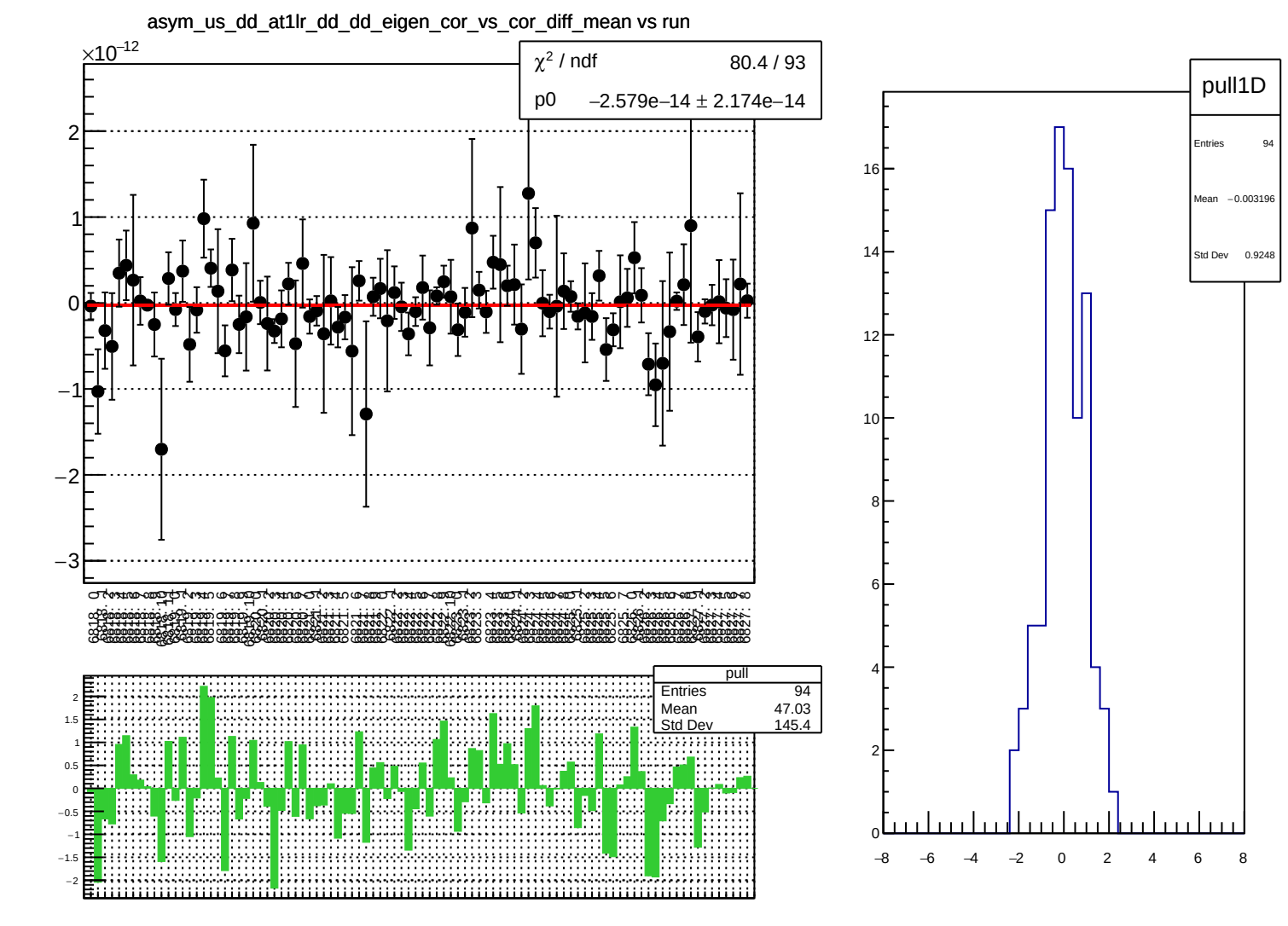

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2484 / 93
p0 0.002834 ± 2.117e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026

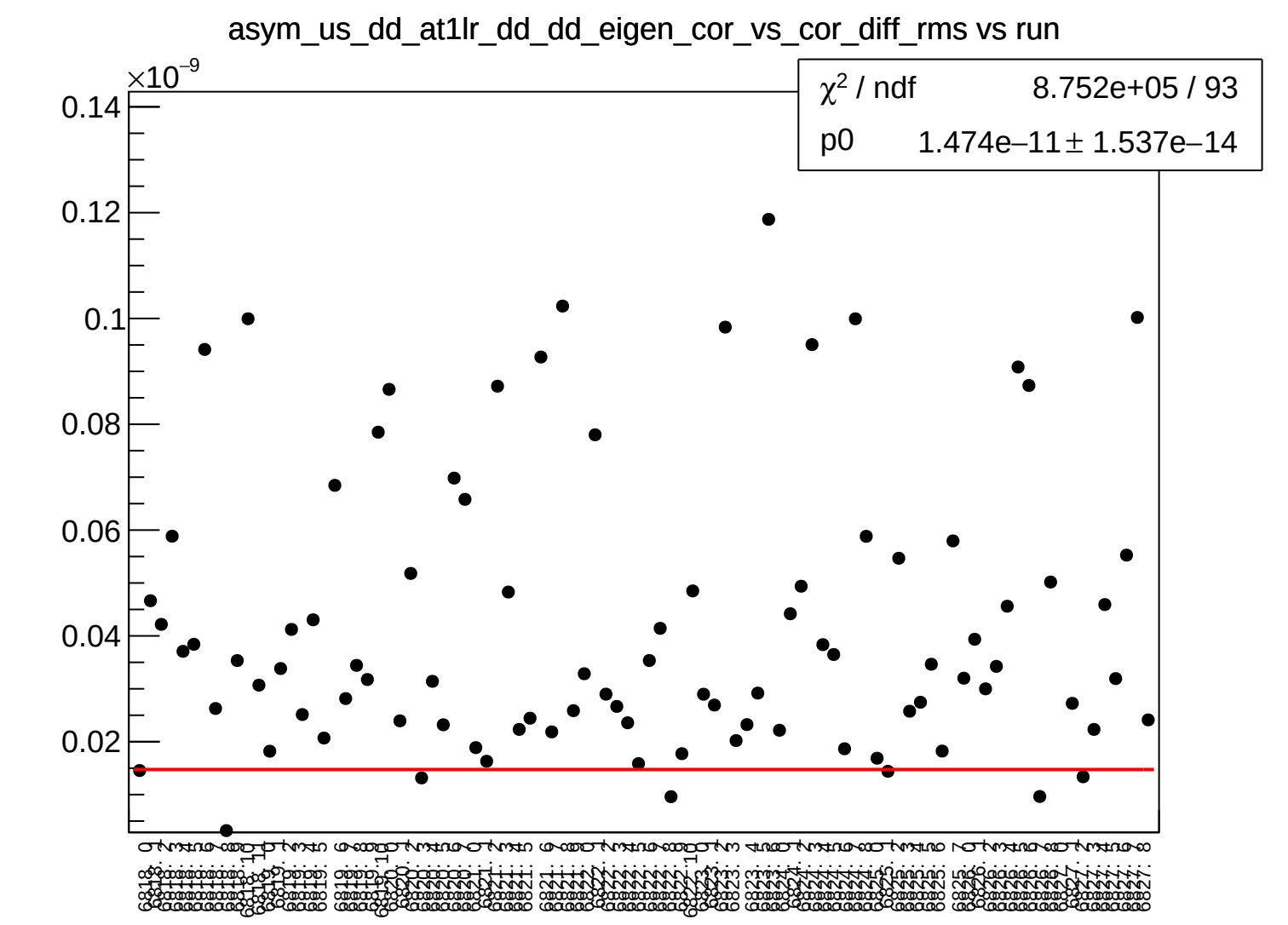

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.52 / 93
p0 −0.02211 ± 0.04533
pull
Entries 94
Mean −946.8
Std Dev 0
pull1D
Entries 94
Mean −0.003653
Std Dev 0.8783

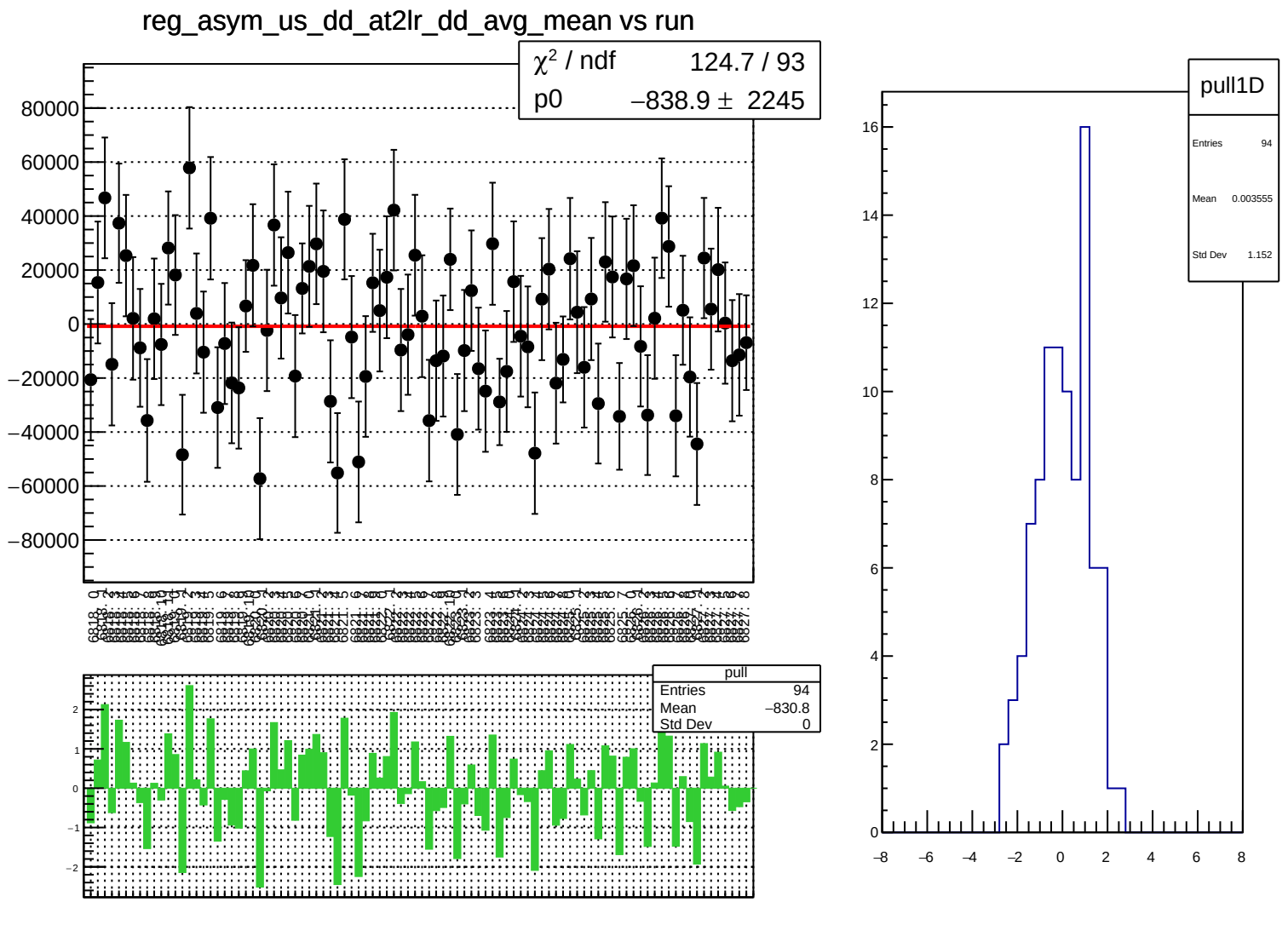

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.915e+05 / 93
p0 40.59 ± 0.03205
90
80
70
60
50
40
30
20

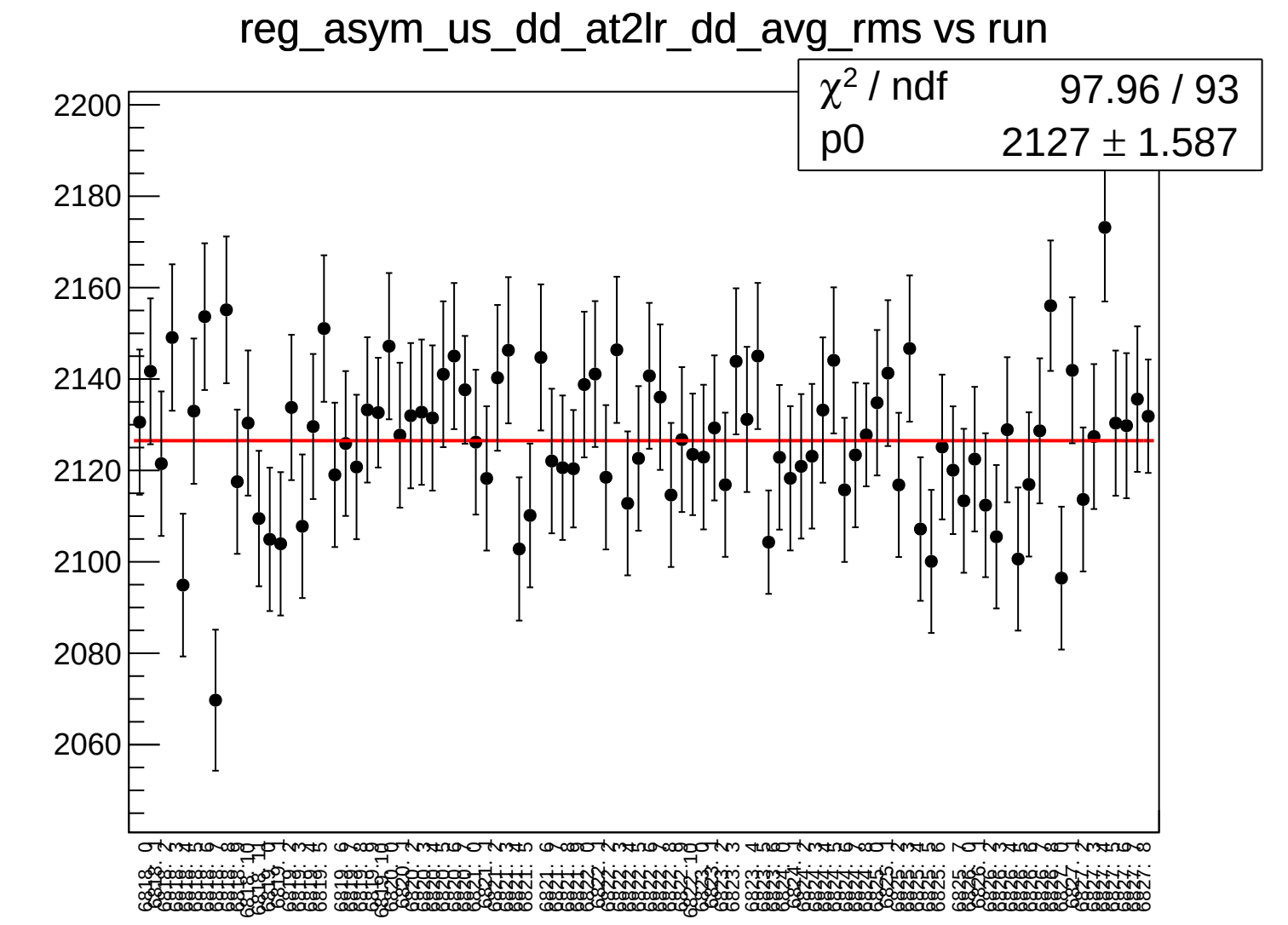

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.52 / 93
p0 −0.02211 ± 0.04533
pull
Entries 94
Mean −946.8
Std Dev 0
pull1D
Entries 94
Mean −0.003653
Std Dev 0.8783

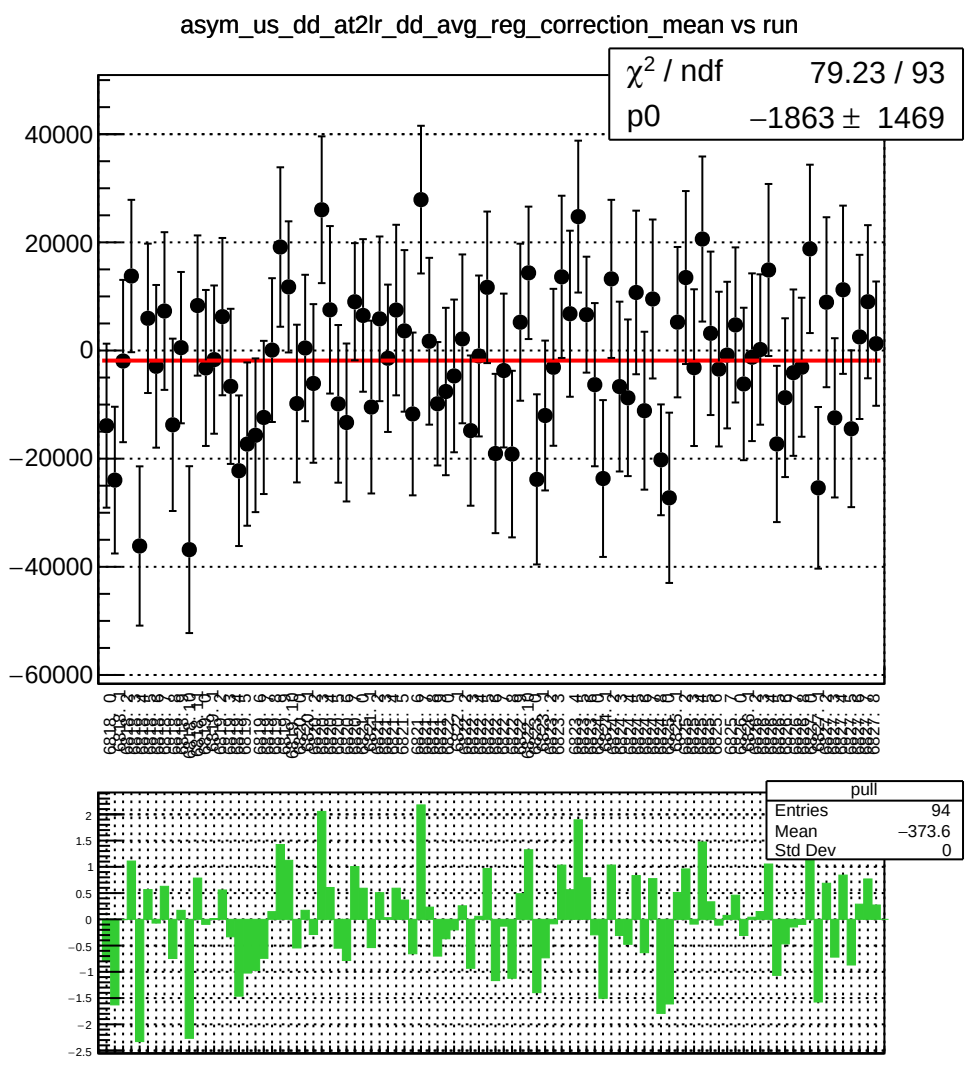

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.915e+05 / 93
p0 40.59 ± 0.03205
90
80
70
60
50
40
30
20

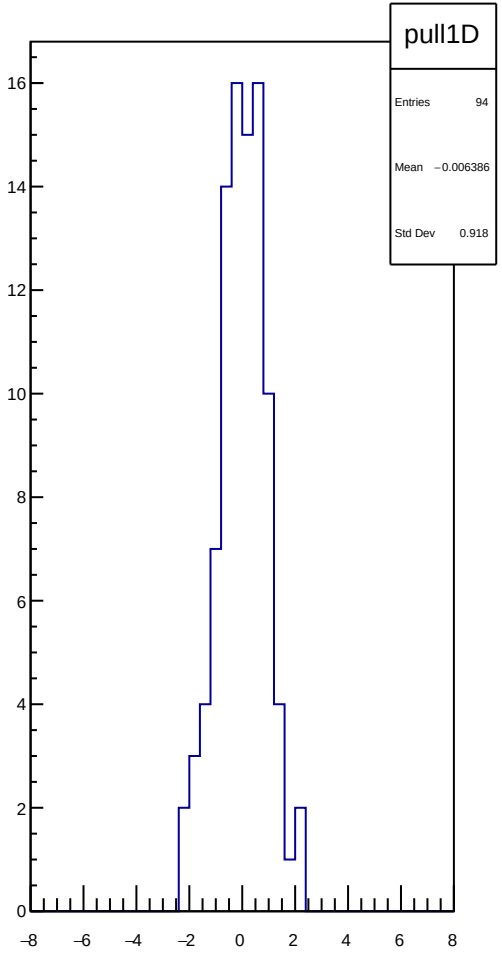

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.4 / 93
p0 −2.579e−14 ± 2.174e−14
pull
Entries 94
Mean 47.03
Std Dev 145.4
pull1D
Entries 94
Mean −0.003196
Std Dev 0.9248

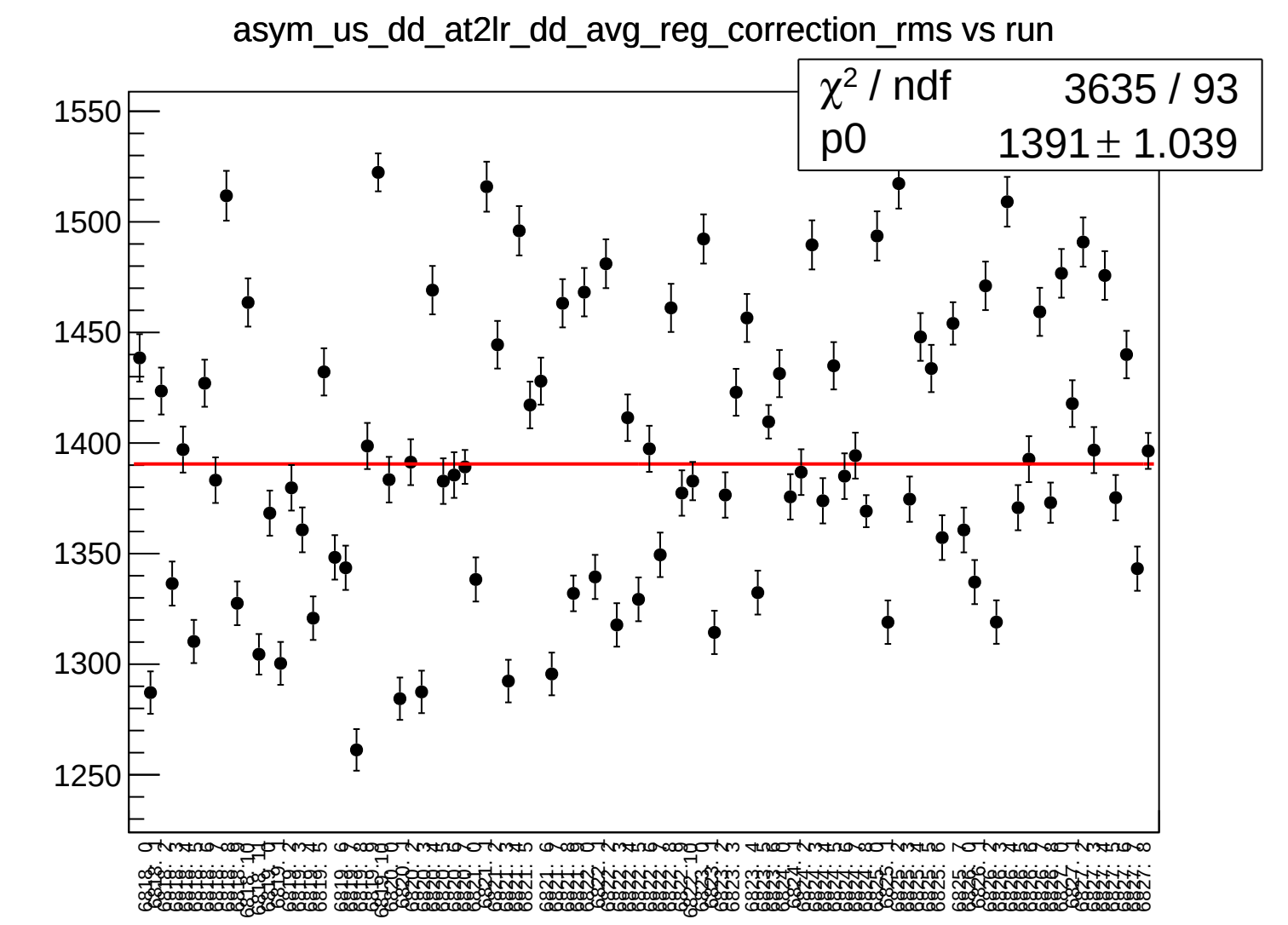

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.752e+05 / 93
p0 1.474e−11 ± 1.537e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

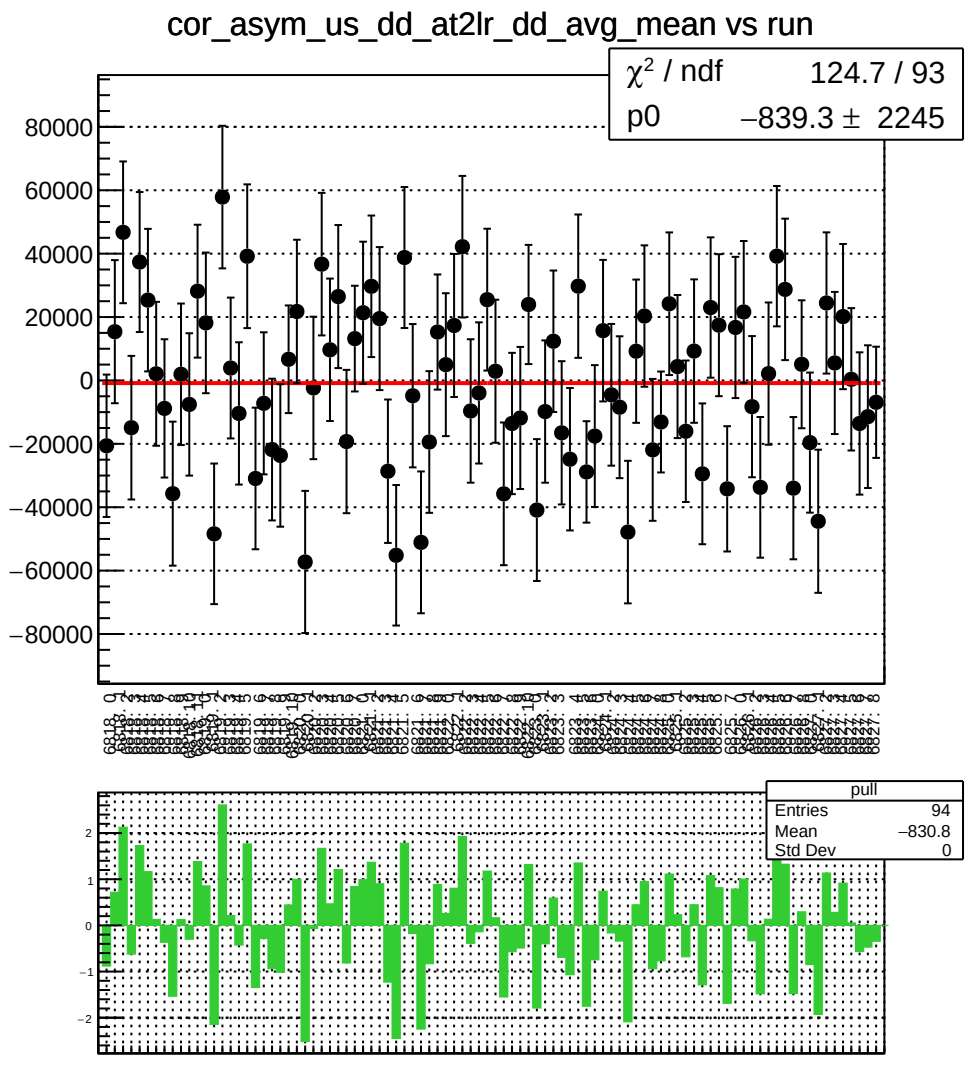

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 124.7 / 93
p0 −838.9 ± 2245
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −830.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003555
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

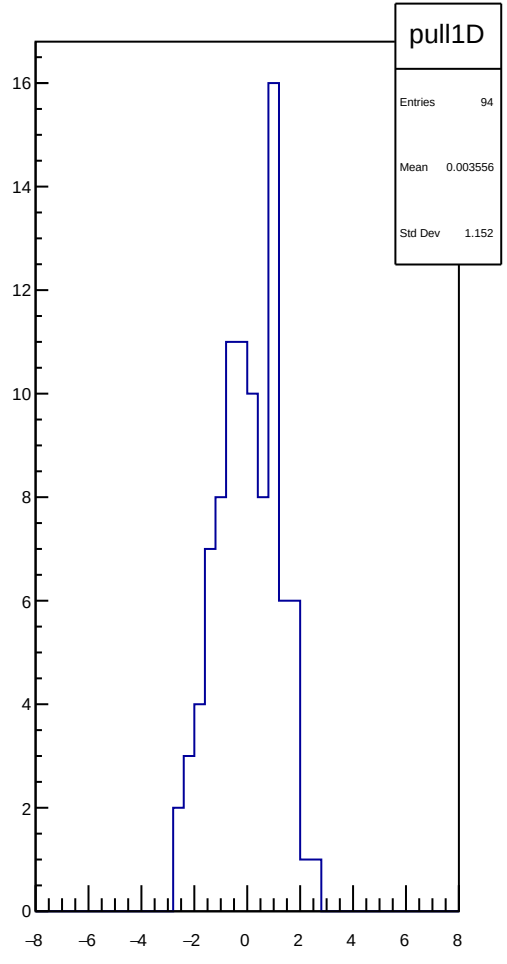

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.96 / 93
p0 2127 ± 1.587
2200
2180
2160
2140
2120
2100
2080
2060

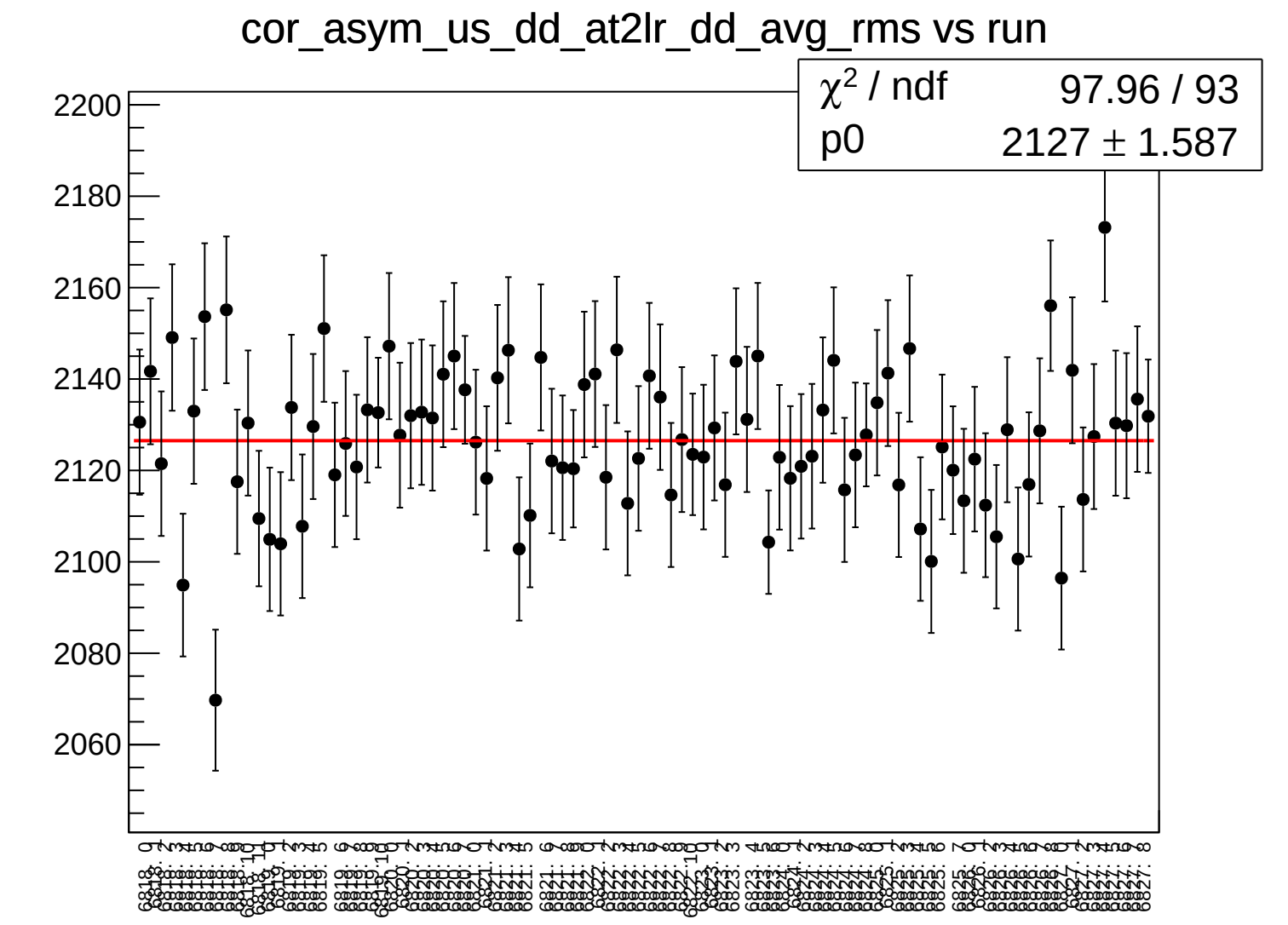

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 79.23 / 93
p0 −1863 ± 1469
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −373.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

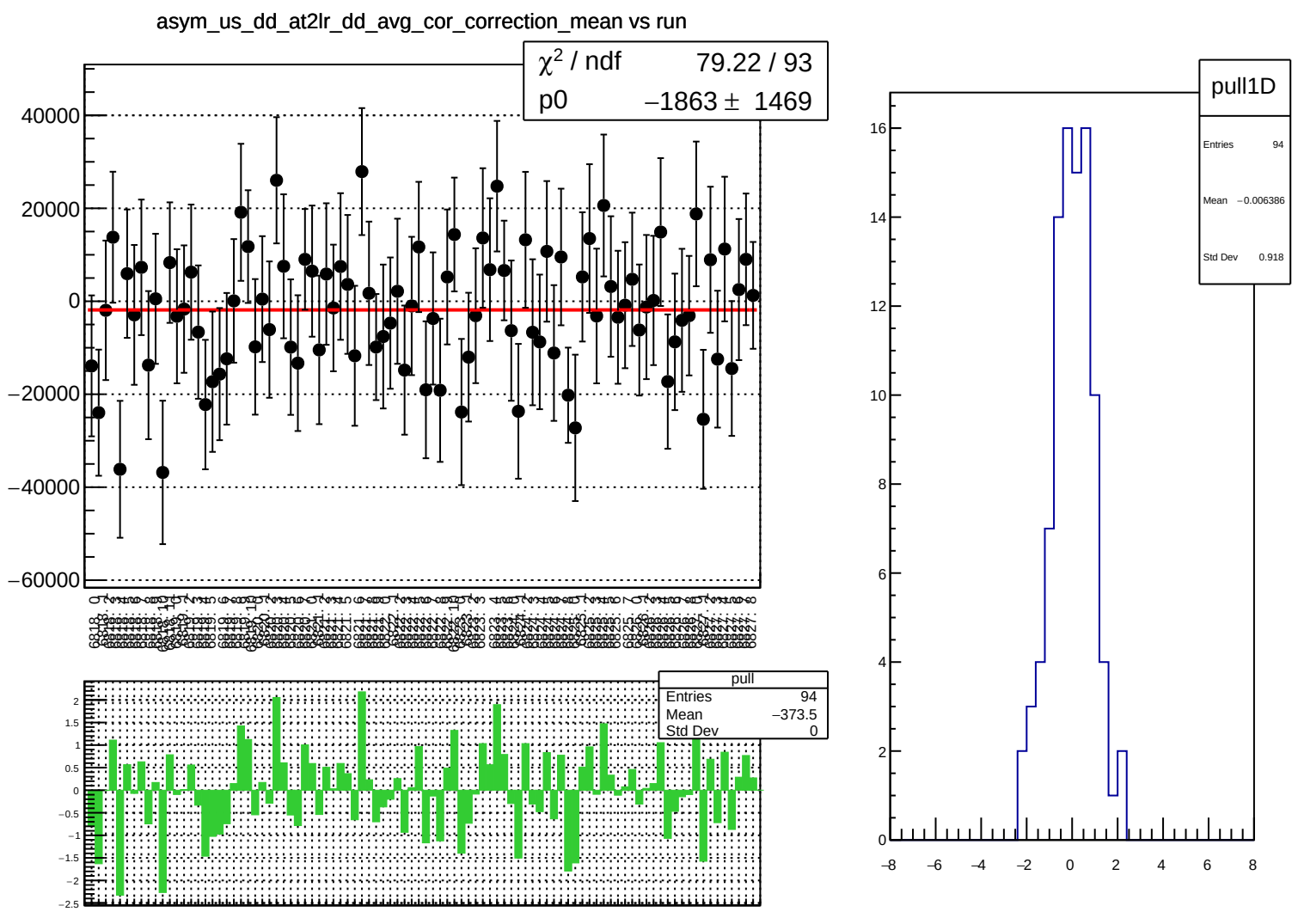

pull1D
Entries 94
Mean −0.006386
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

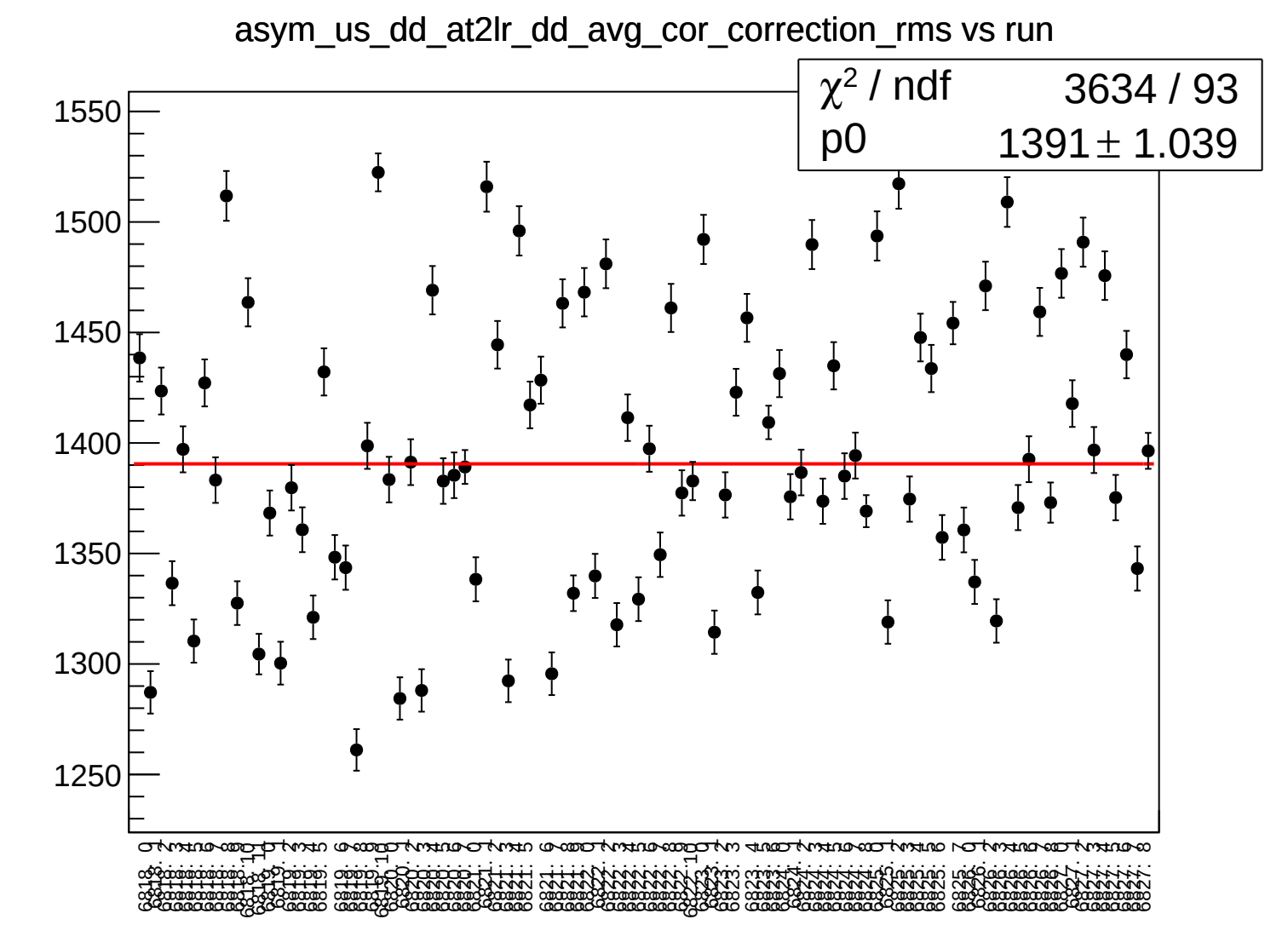

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 3635 / 93
p0 1391 ± 1.039
1550
1500
1450
1400
1350
1300
1250

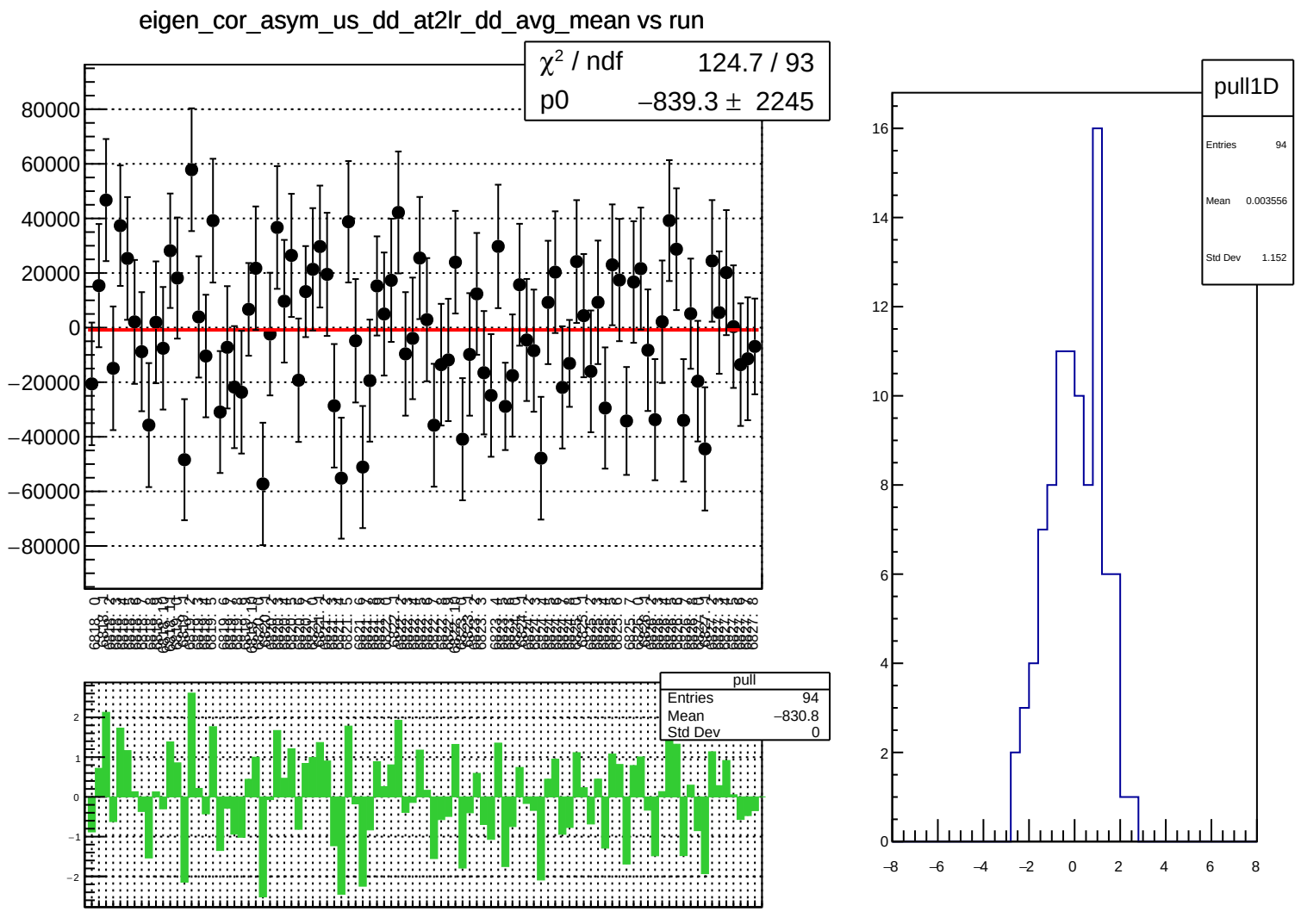

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 124.7 / 93
p0 −839.3 ± 2245
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −830.8
Std Dev 0
2
1
0
−1
−2

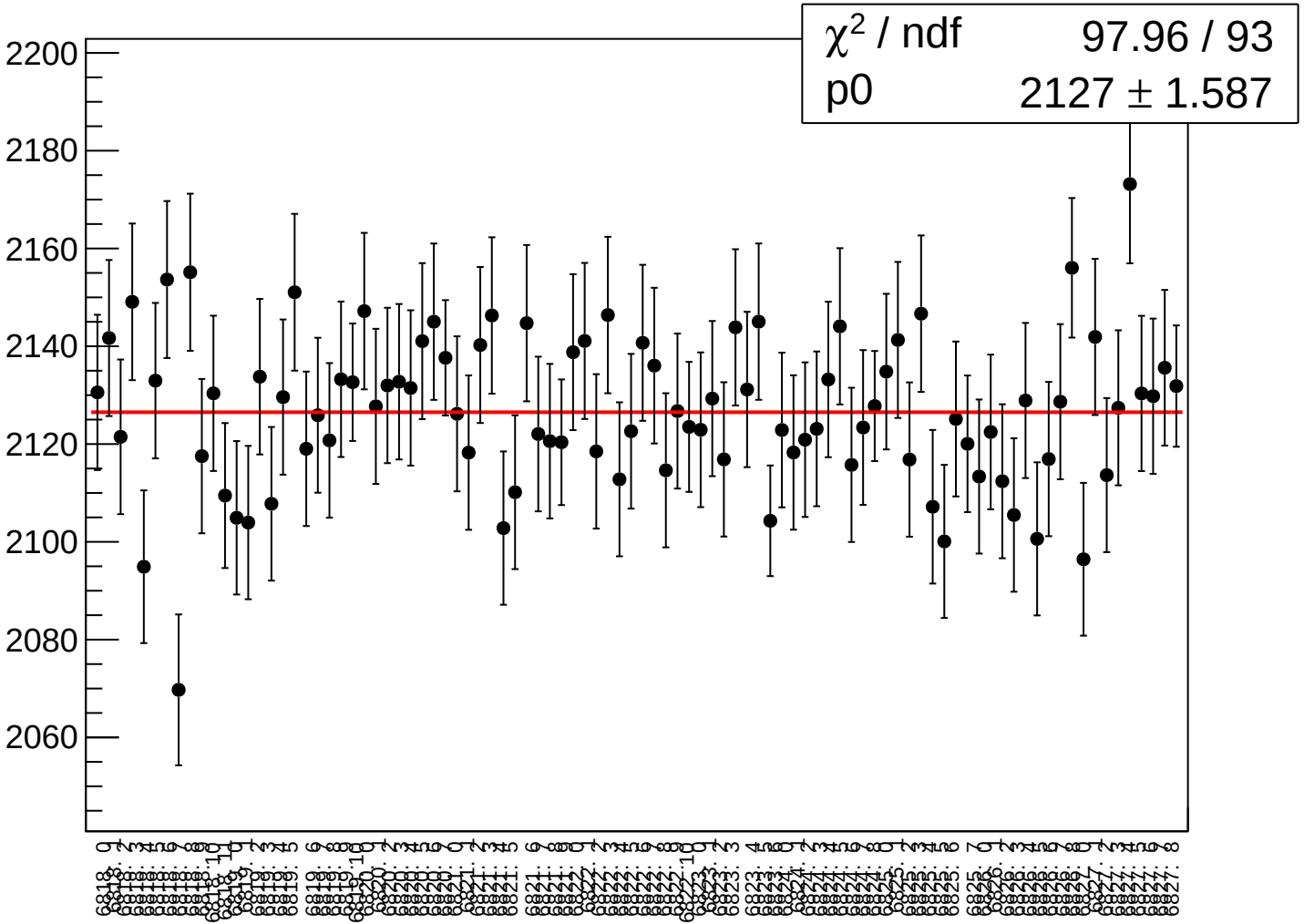

pull1D
Entries 94
Mean 0.003556
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

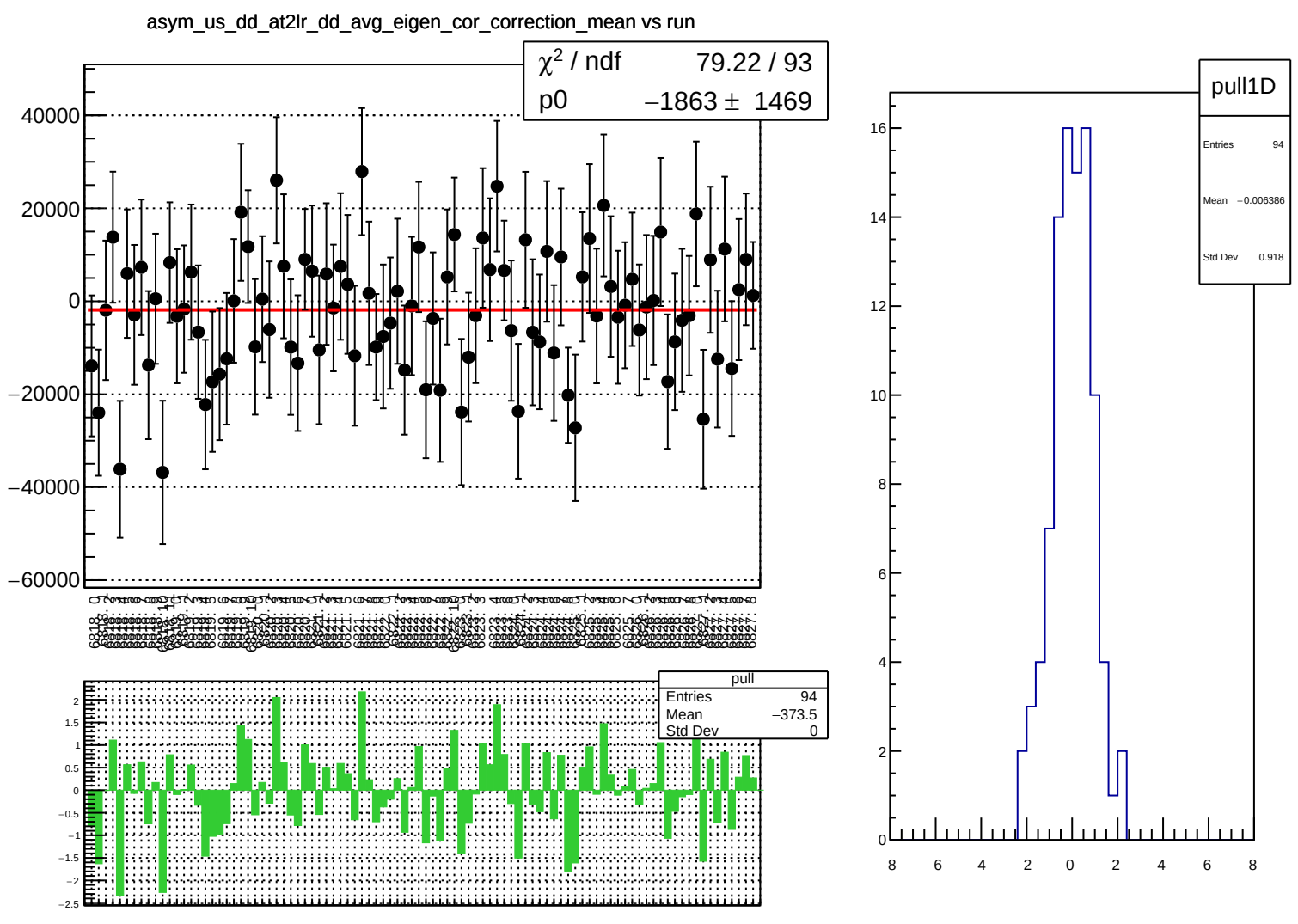

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.96 / 93
p0 2127 ± 1.587
2200
2180
2160
2140
2120
2100
2080
2060

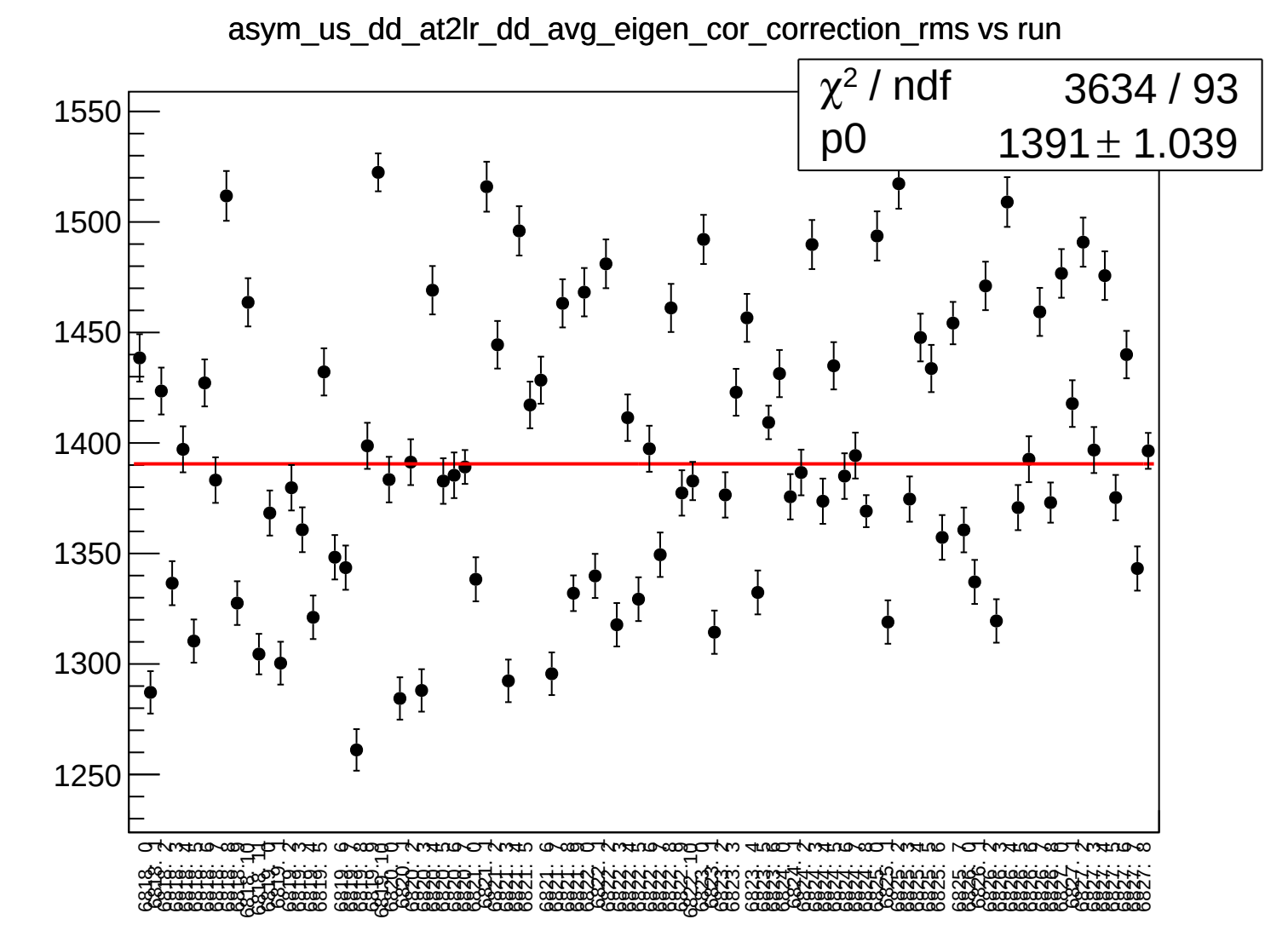

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 79.22 / 93
p0 −1863 ± 1469
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −373.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.006386
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

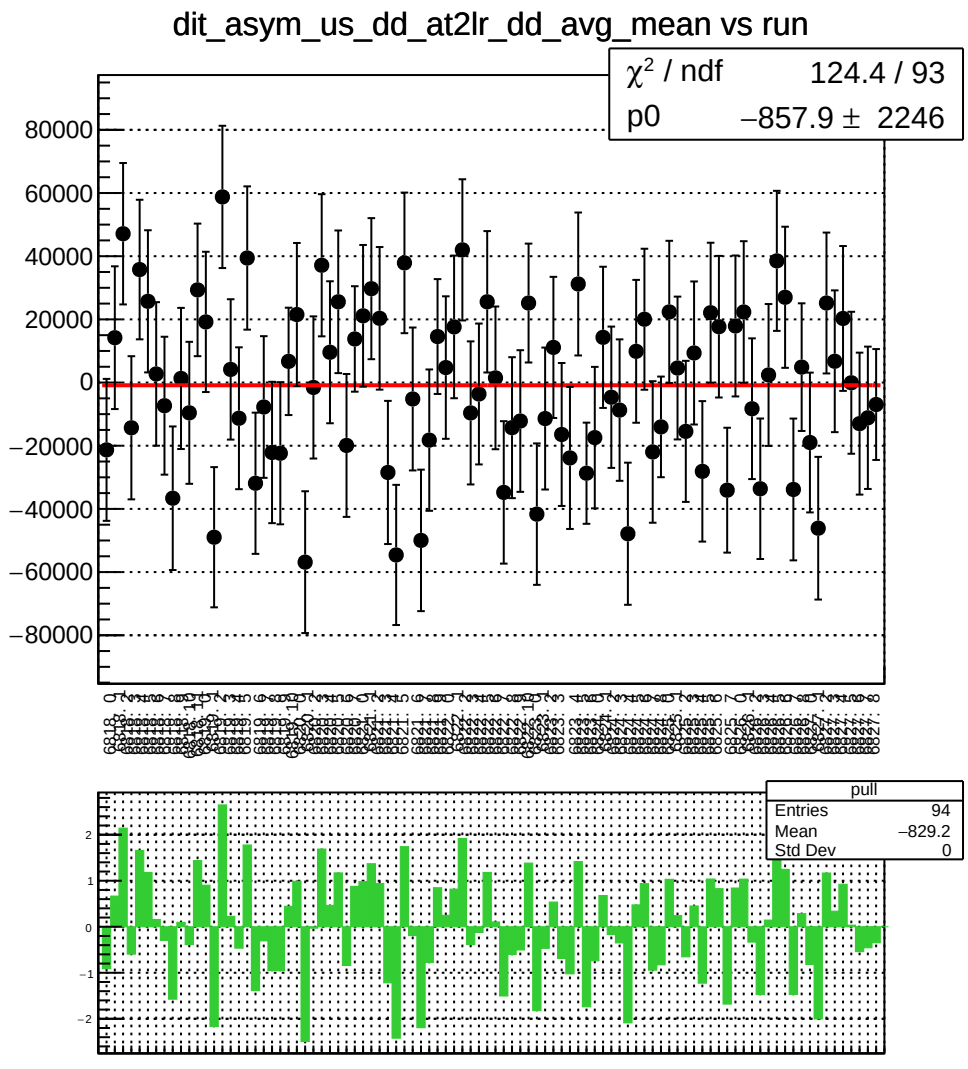

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3634 / 93
p0 1391 ± 1.039
1550
1500
1450
1400
1350
1300
1250

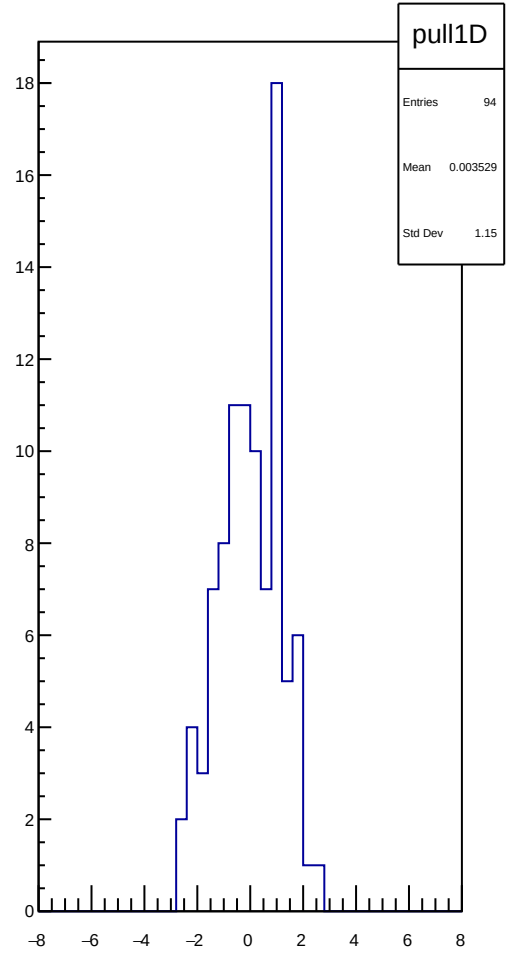

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 124.7 / 93
p0 −839.3 ± 2245
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −830.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003556
Std Dev 1.152
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

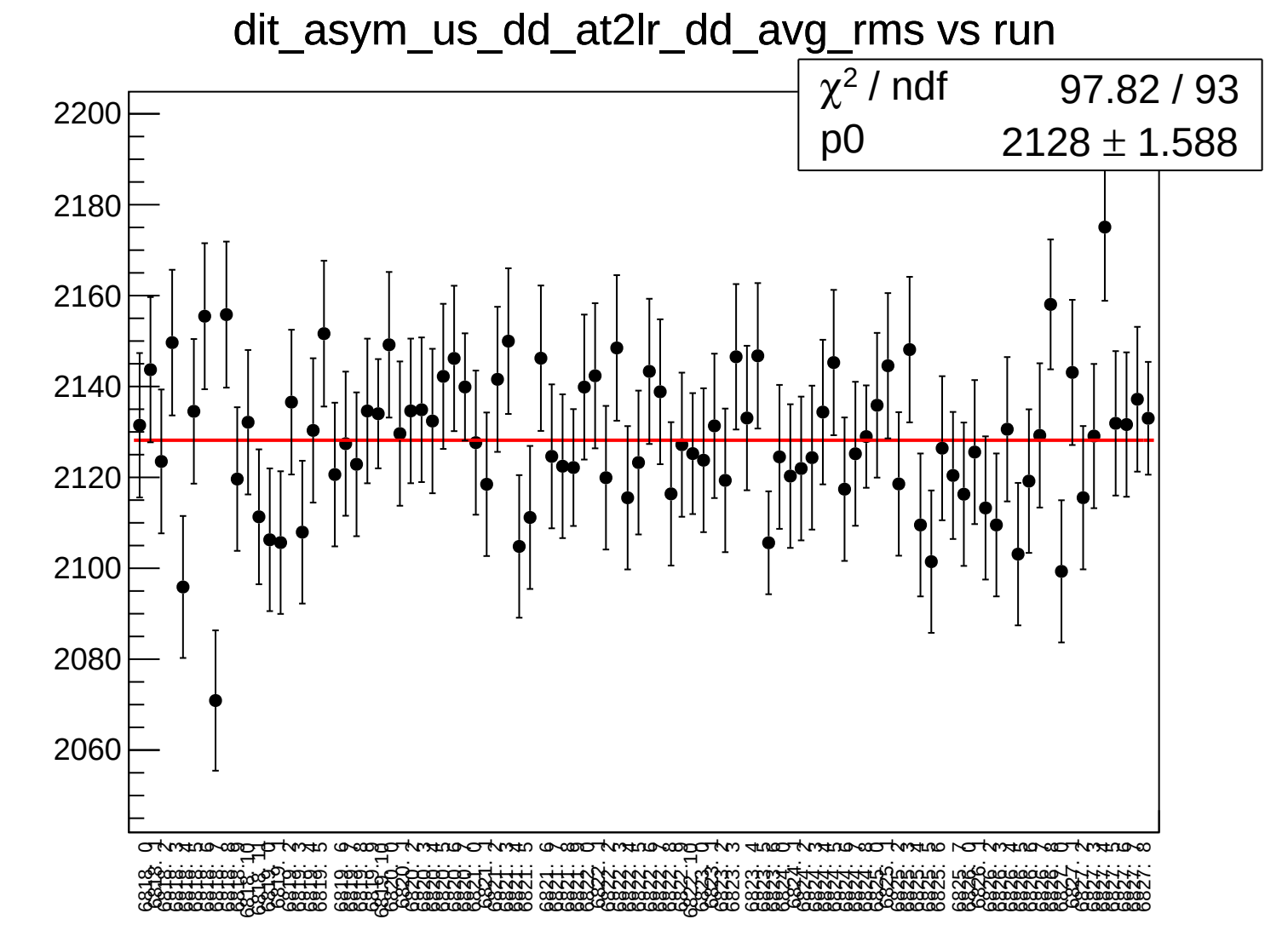

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 97.96 / 93
p0 2127 ± 1.587
2200
2180
2160
2140
2120
2100
2080
2060

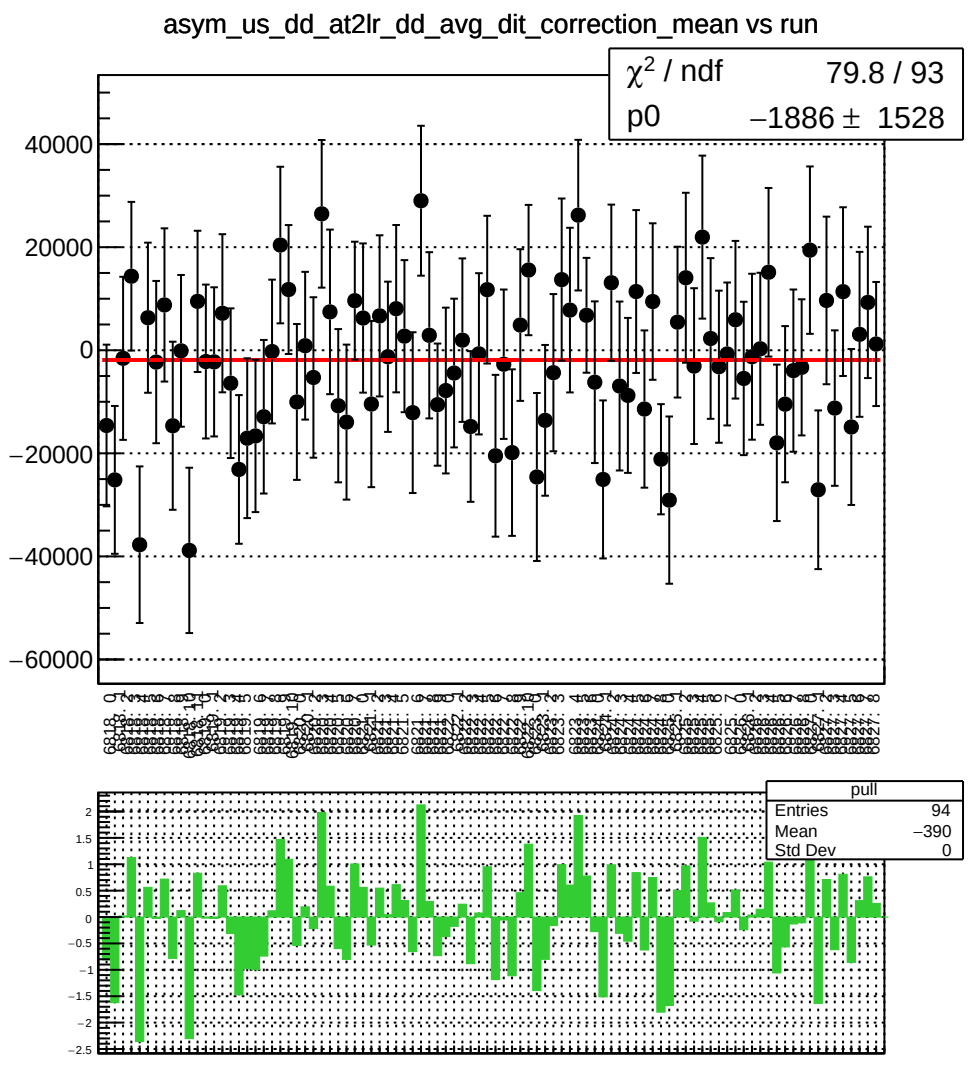

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.22 / 93
p0 −1863 ± 1469
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −373.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.006386
Std Dev 0.918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

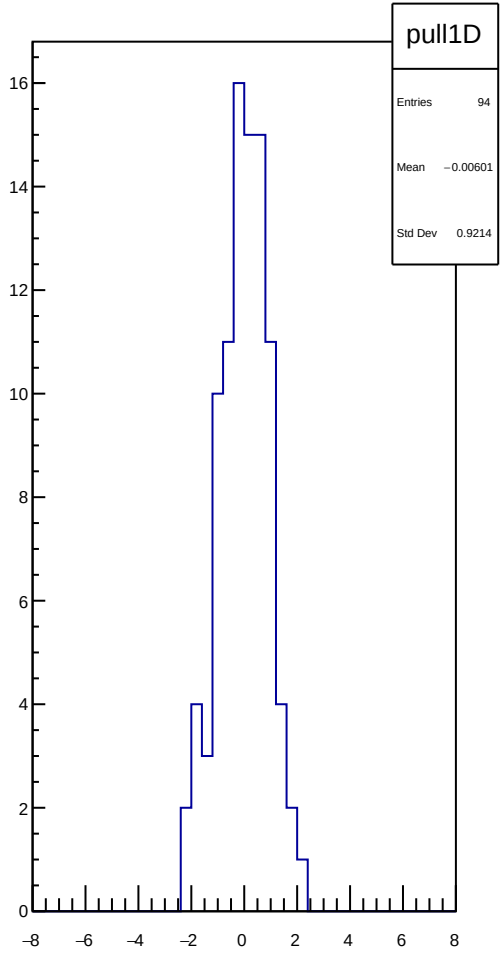

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3634 / 93
p0 1391 ± 1.039
1550
1500
1450
1400
1350
1300
1250

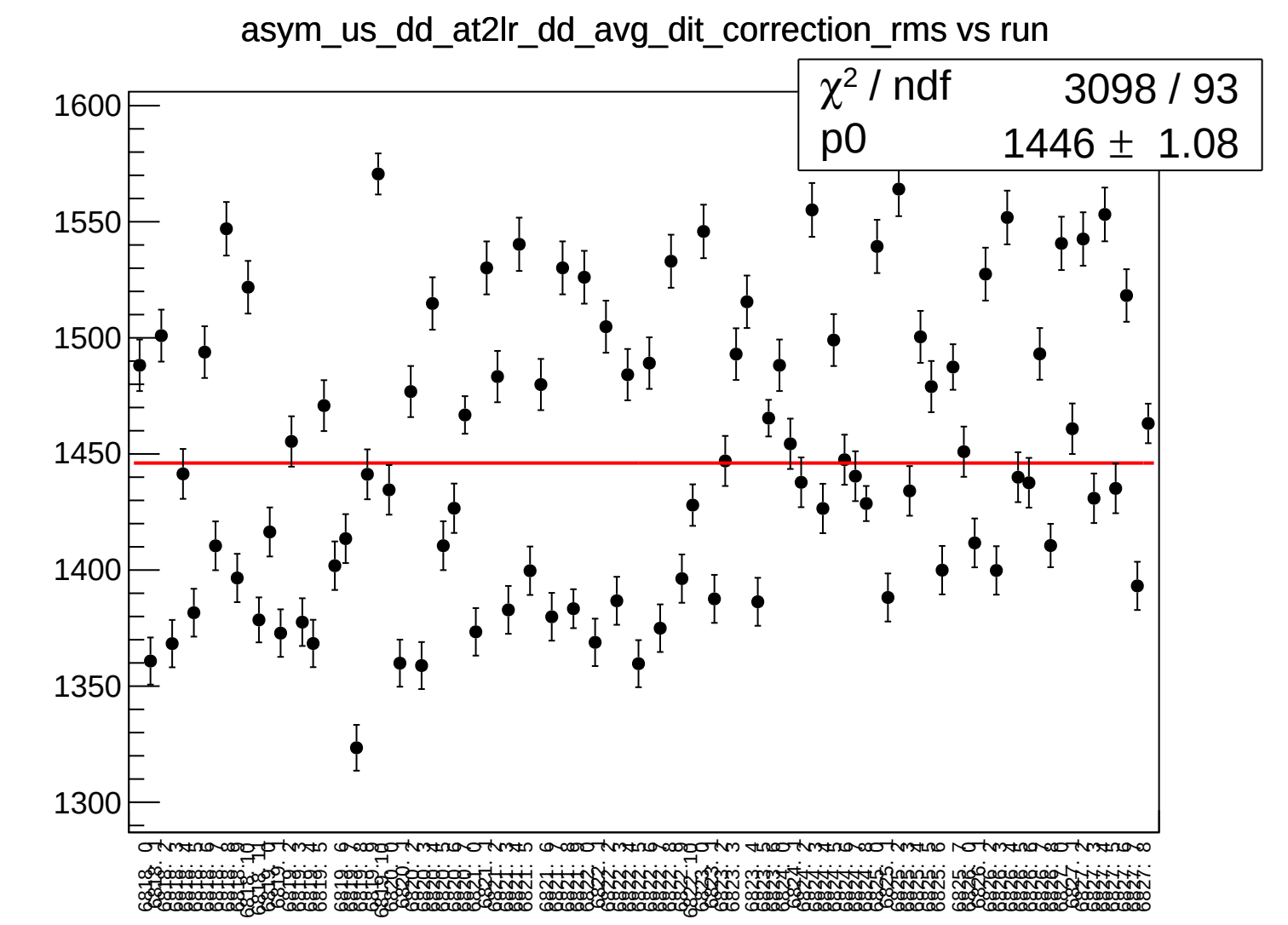

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 124.4 / 93
p0 −857.9 ± 2246
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −829.2
Std Dev 0
2
1
0
−1
−2

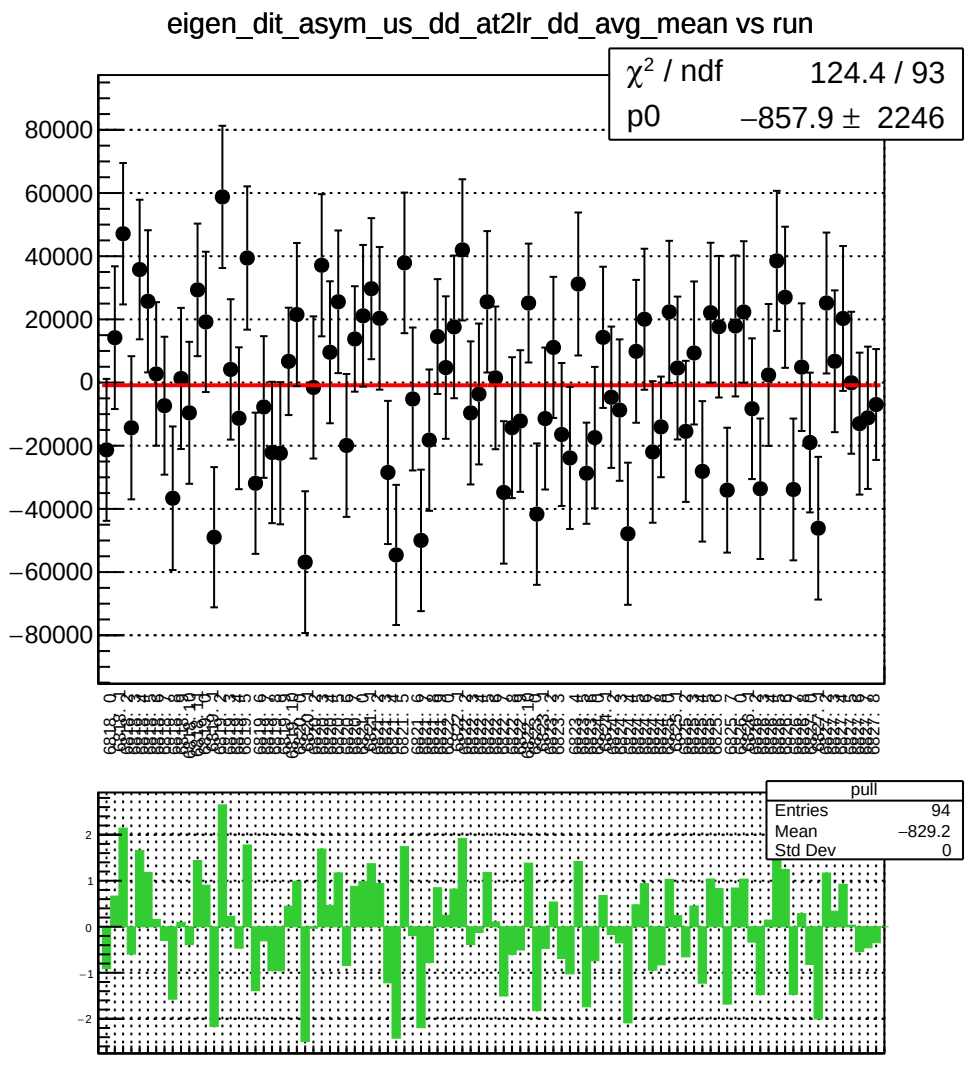

pull1D
Entries 94
Mean 0.003529
Std Dev 1.15
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

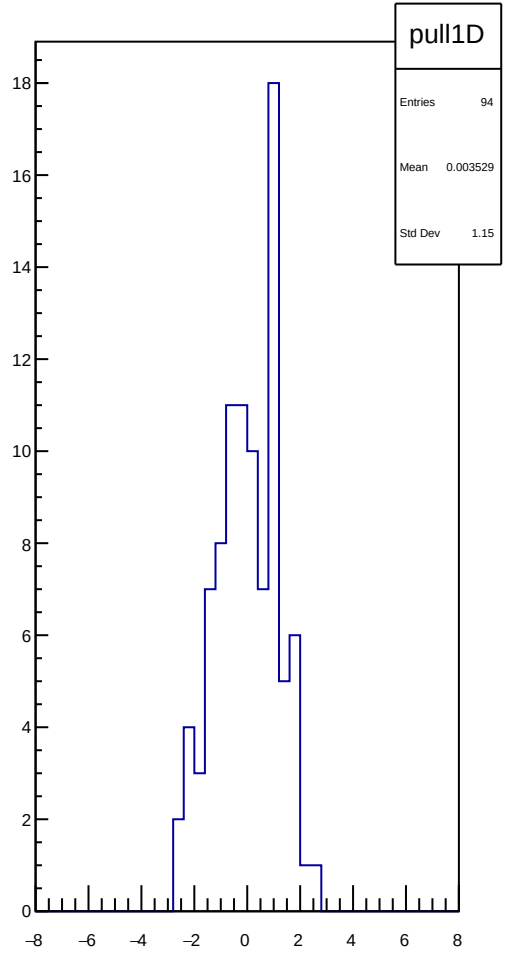

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 97.82 / 93
p0 2128 ± 1.588
2200
2180
2160
2140
2120
2100
2080
2060

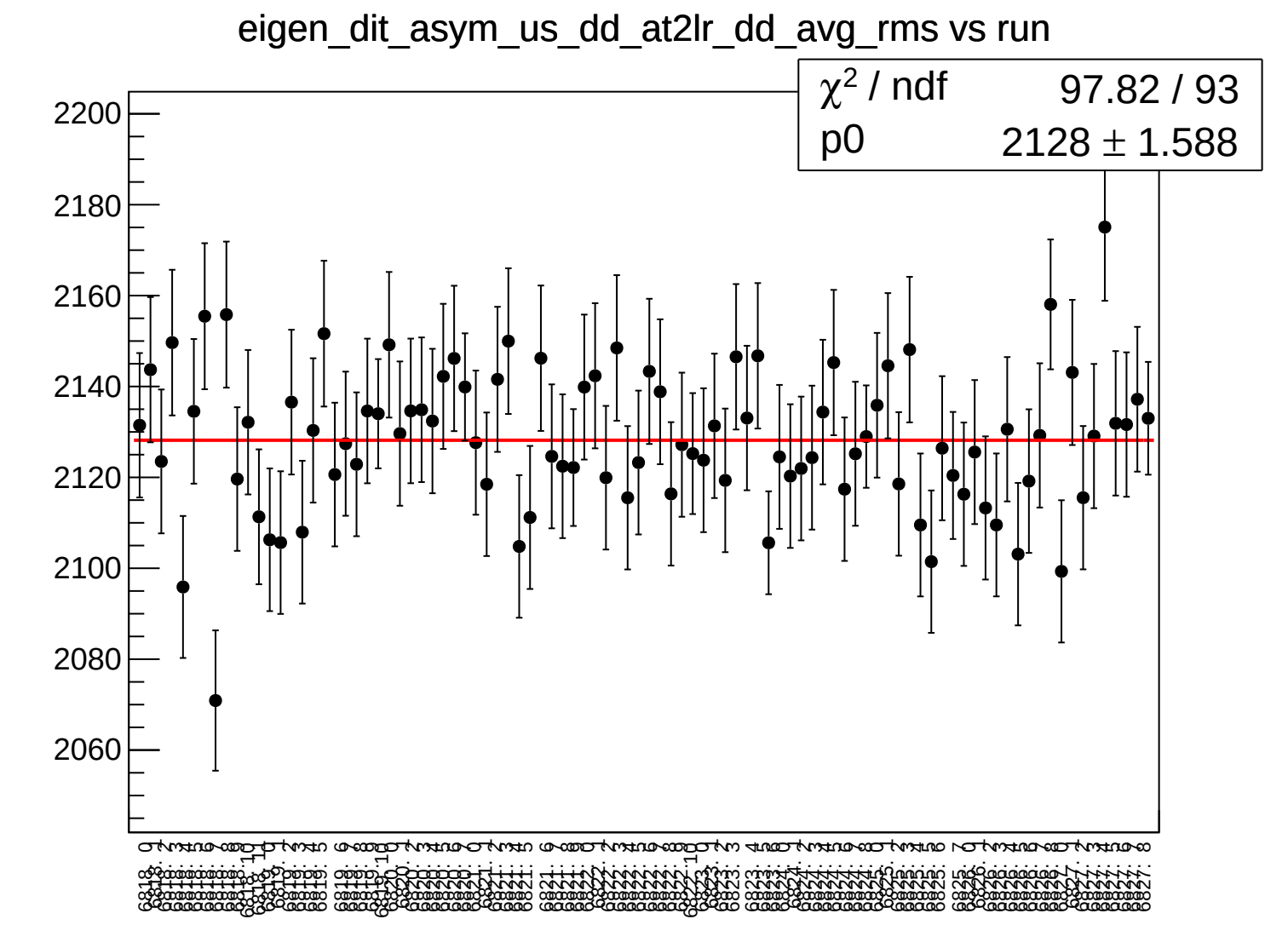

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 79.8 / 93
p0 −1886 ± 1528
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −390
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

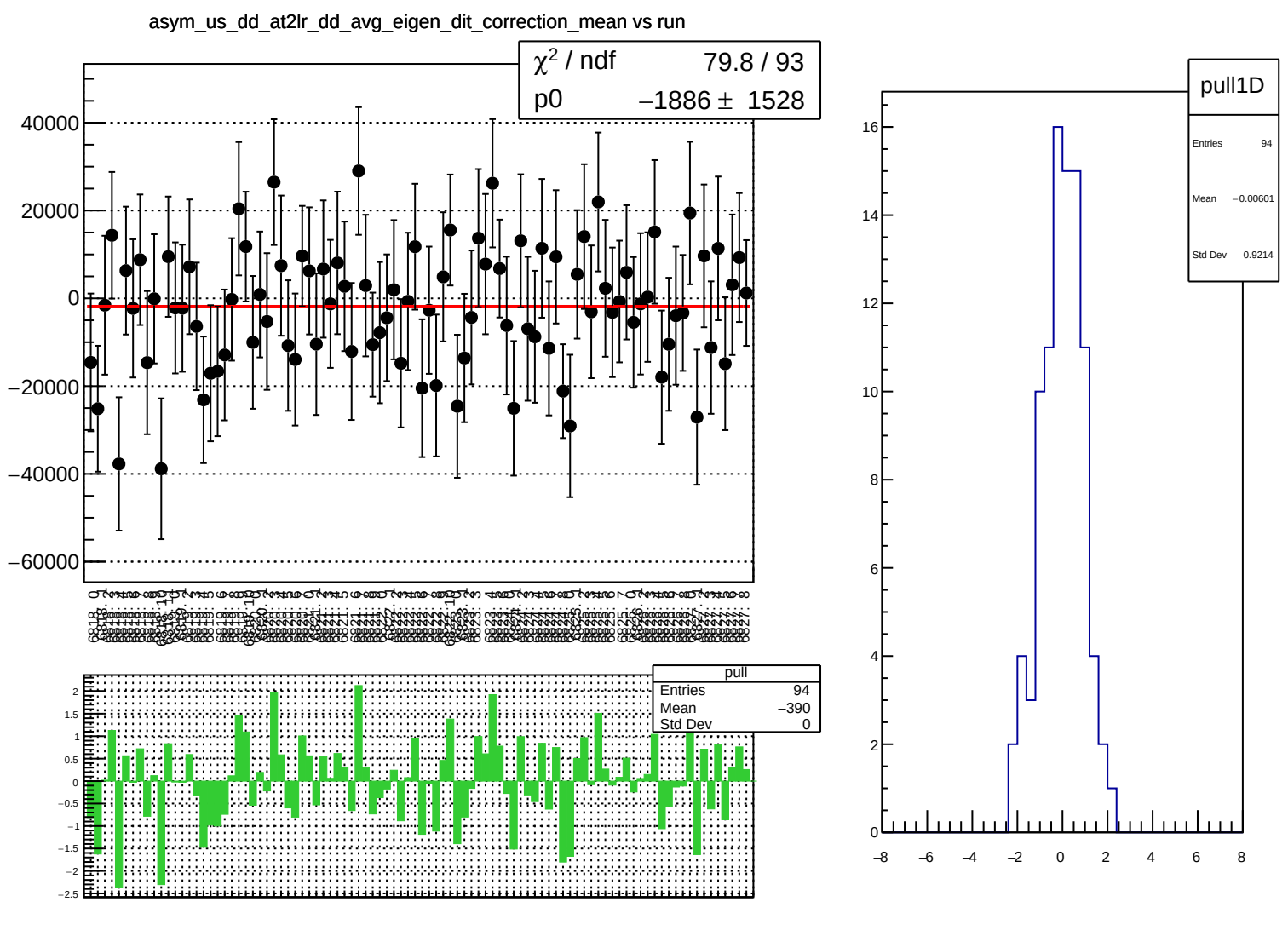

pull1D
Entries 94
Mean −0.00601
Std Dev 0.9214
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

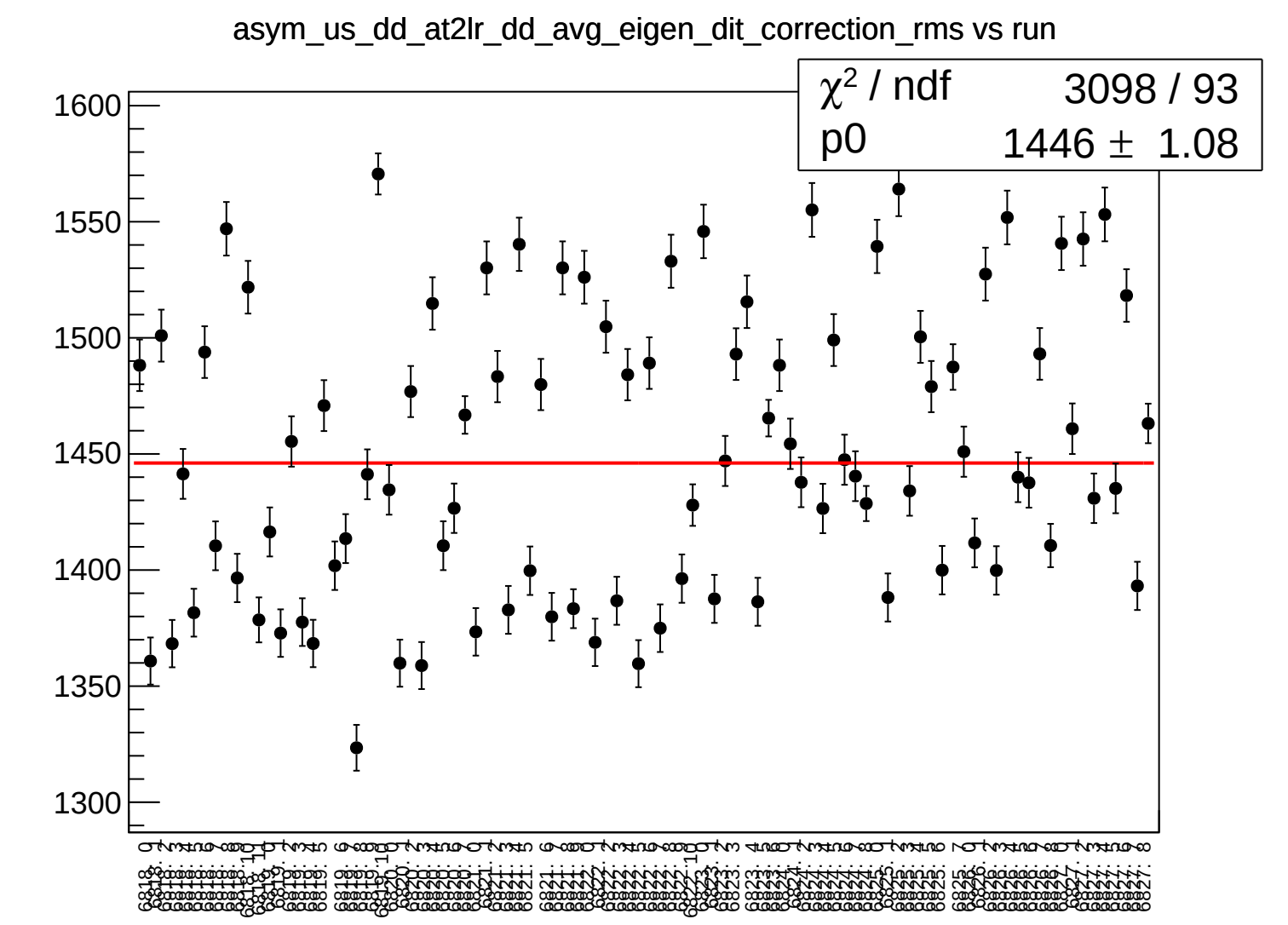

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 3098 / 93
p0 1446 ± 1.08
1600
1550
1500
1450
1400
1350
1300

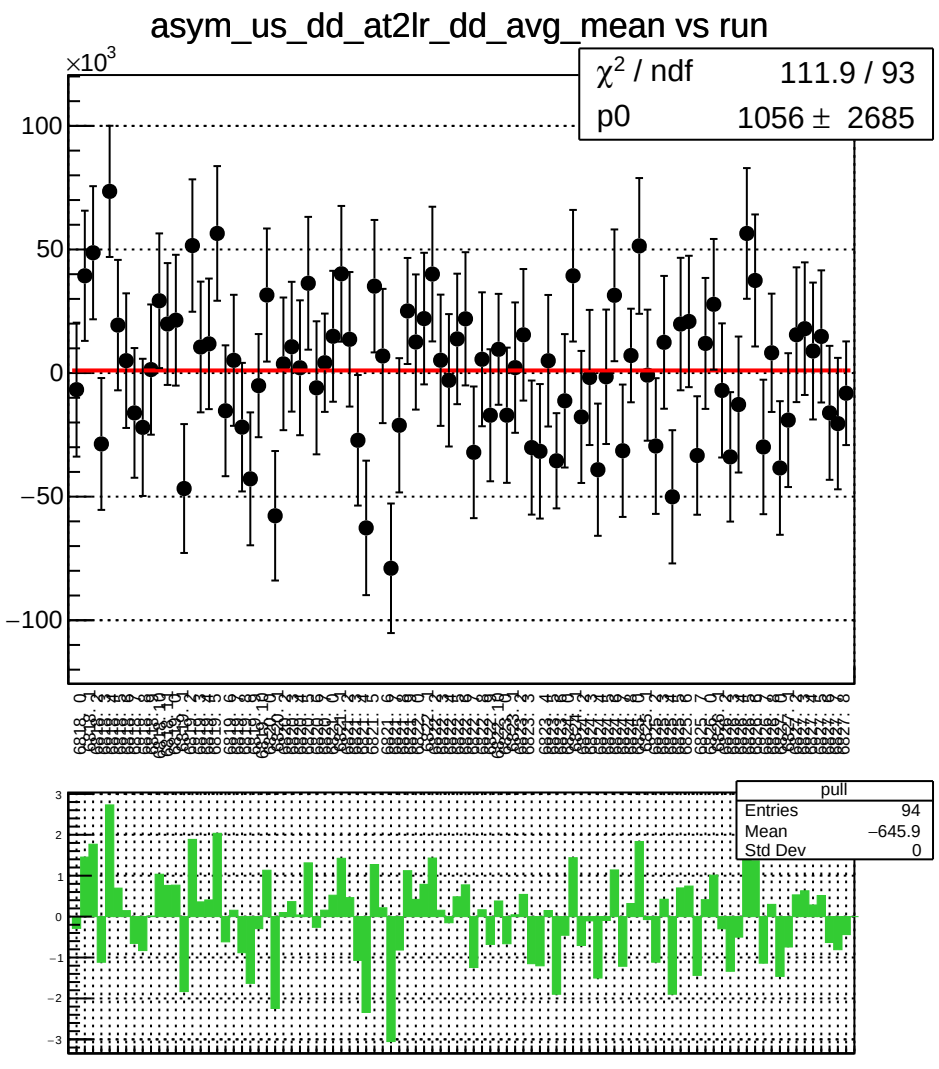

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 124.4 / 93
p0 −857.9 ± 2246
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −829.2
Std Dev 0
2
1
0
−1
−2

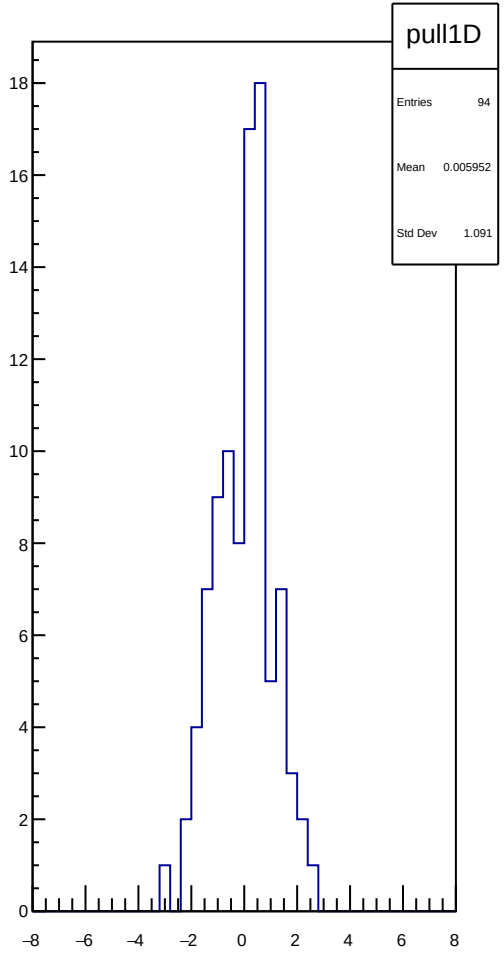

pull1D
Entries 94
Mean 0.003529
Std Dev 1.15
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

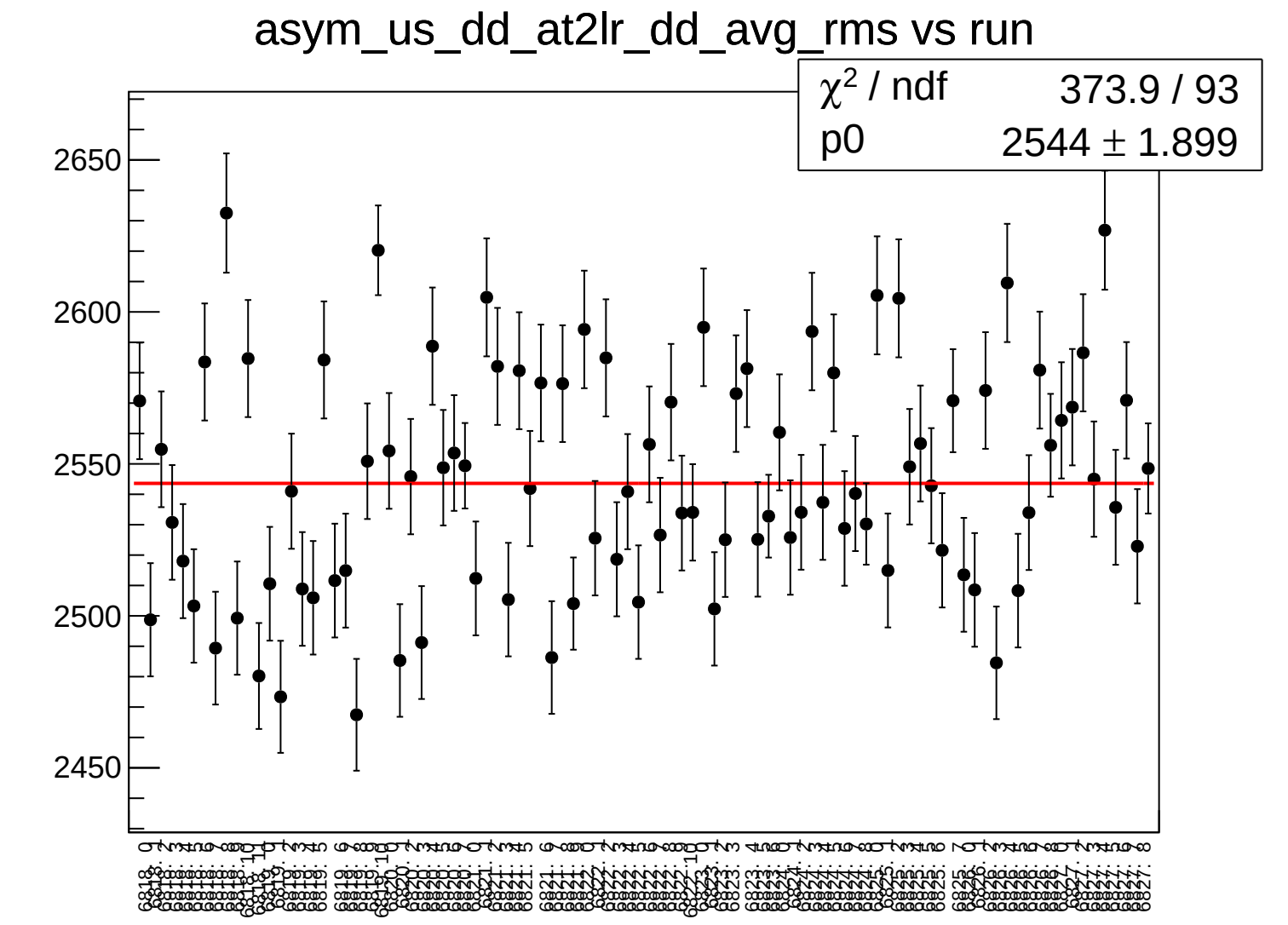

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 97.82 / 93
p0 2128 ± 1.588
2200
2180
2160
2140
2120
2100
2080
2060

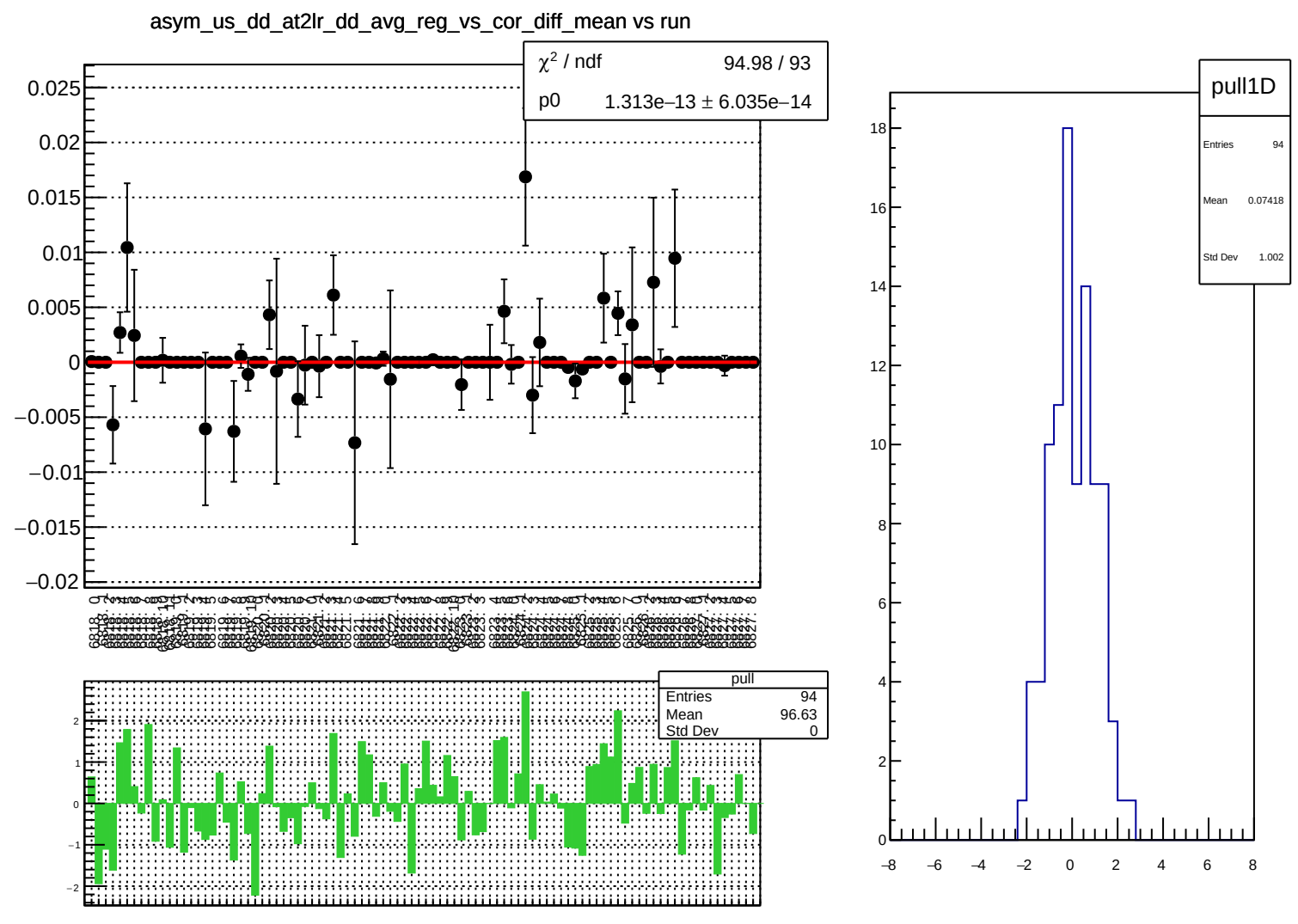

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 79.8 / 93
p0 −1886 ± 1528
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −390
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.00601
Std Dev 0.9214
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

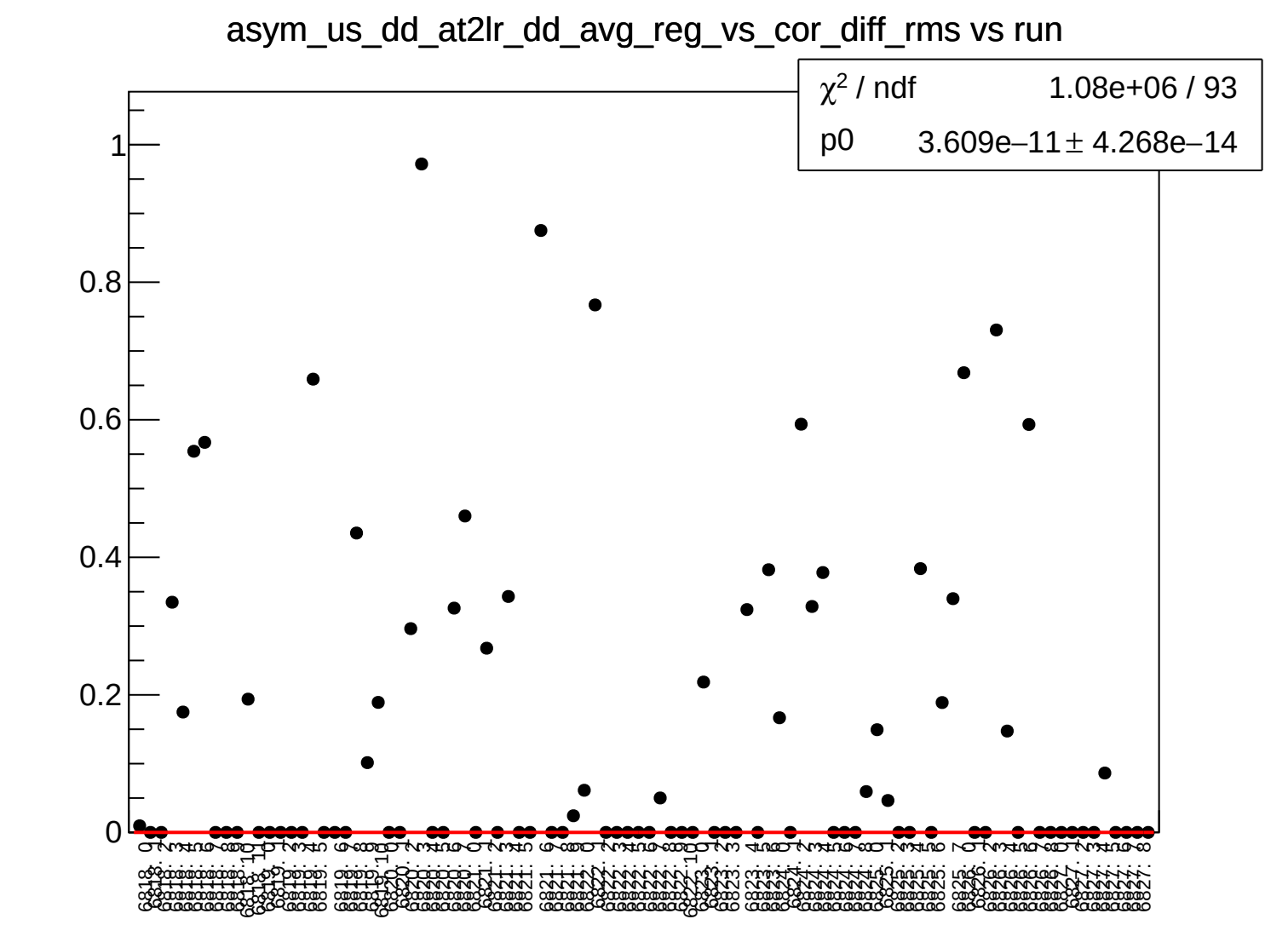

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3098 / 93
p0 1446 ± 1.08
1600
1550
1500
1450
1400
1350
1300

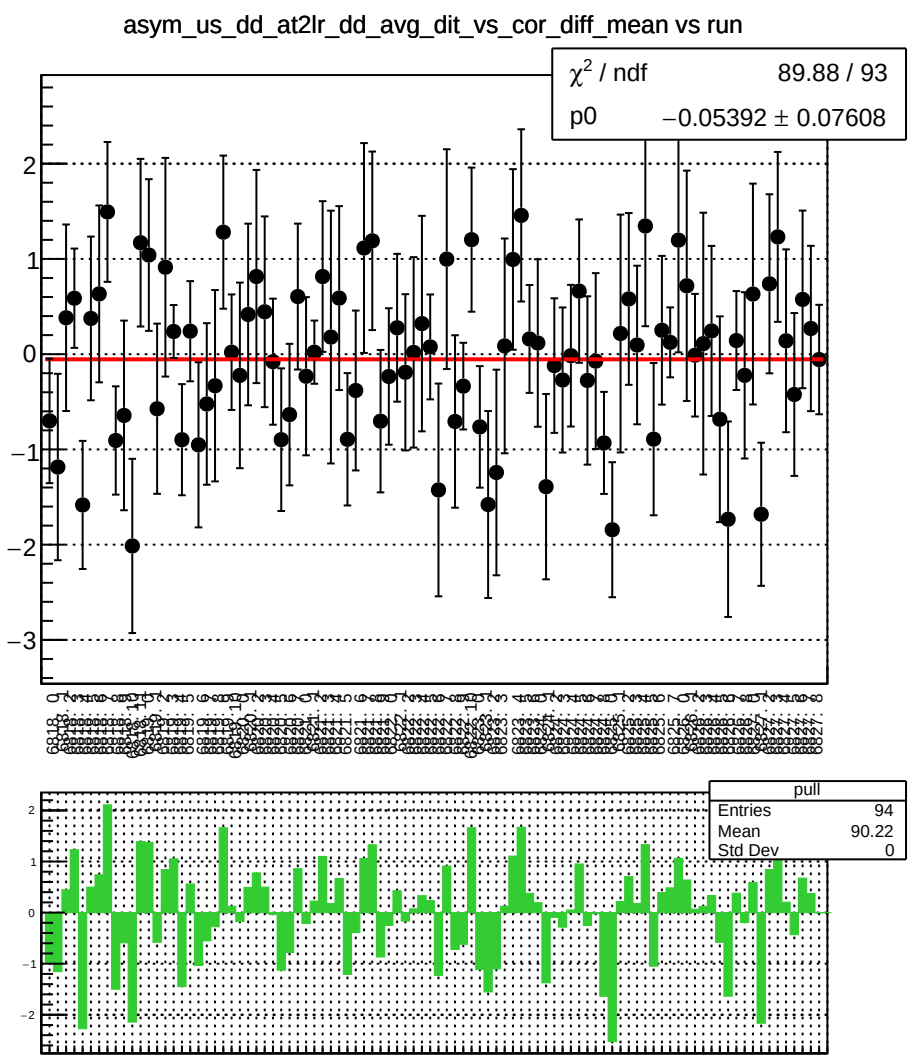

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 111.9 / 93
p0 1056 ± 2685
100
50
0
−50
−100
pull
Entries 94
Mean −645.9
Std Dev 0
3
2
1
0
−1
−2
−3

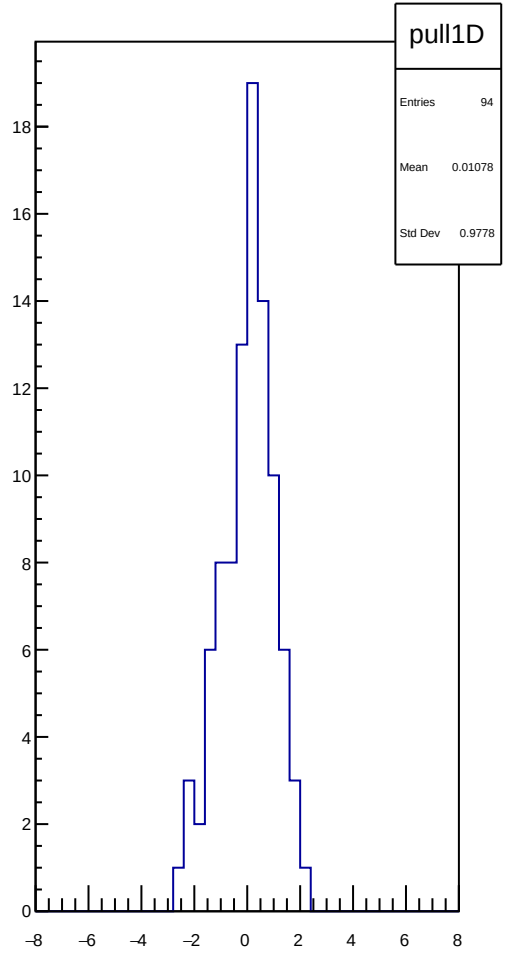

pull1D
Entries 94
Mean 0.005952
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

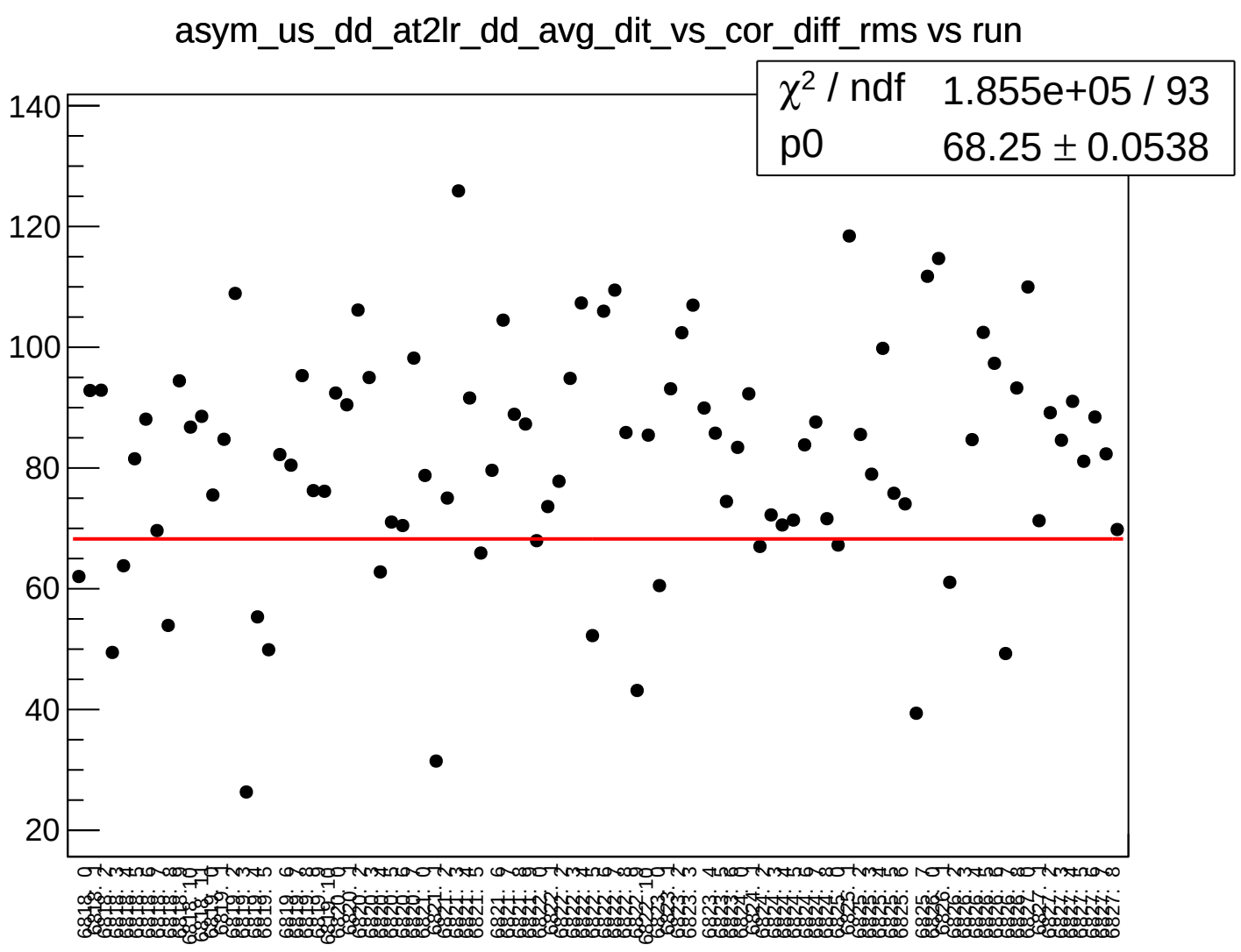

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 373.9 / 93
p0 2544 ± 1.899
2650
2600
2550
2500
2450

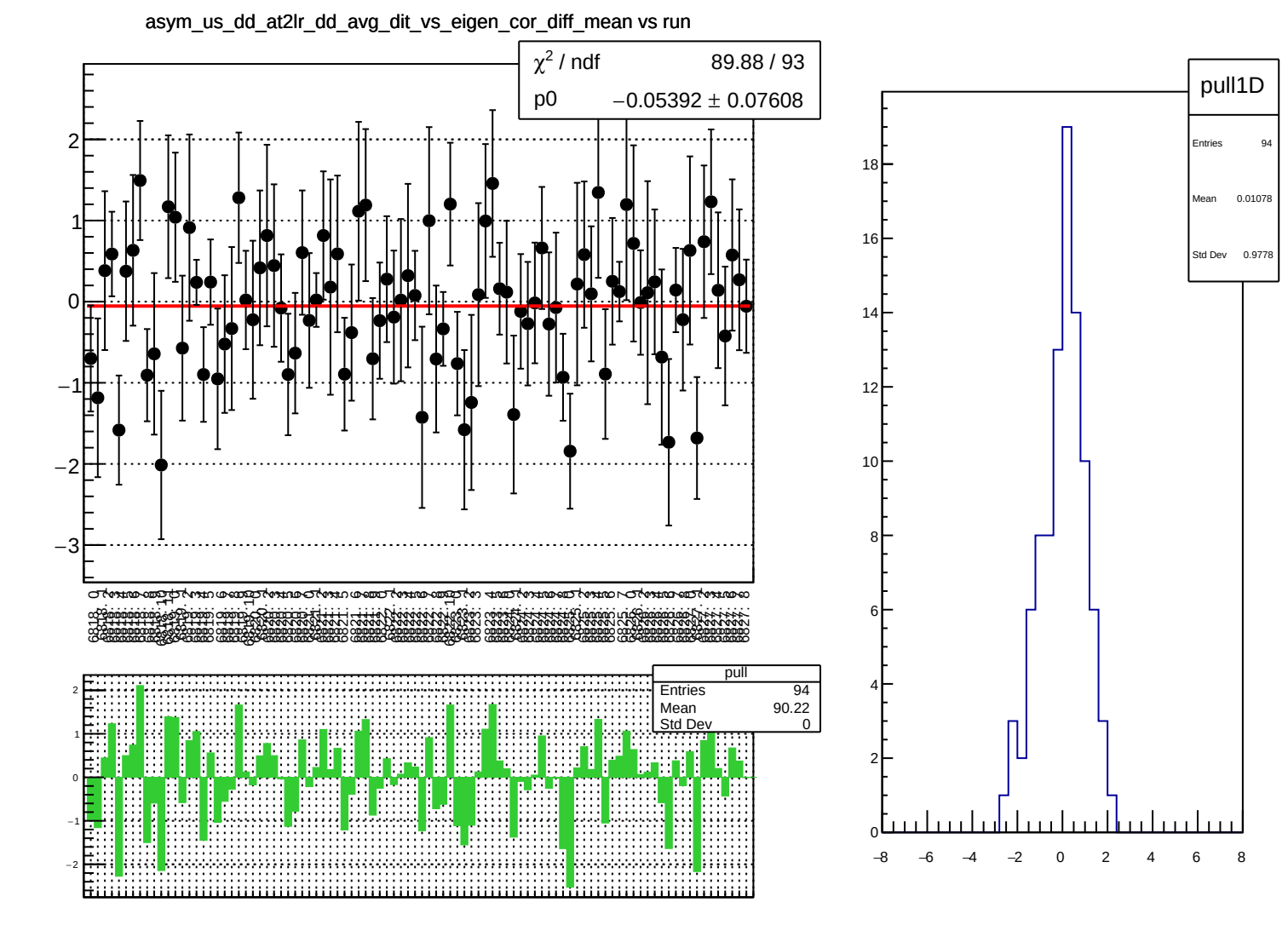

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.98 / 93
p0 1.313e−13 ± 6.035e−14
pull
Entries 94
Mean 96.63
Std Dev 0
pull1D
Entries 94
Mean 0.07418
Std Dev 1.002

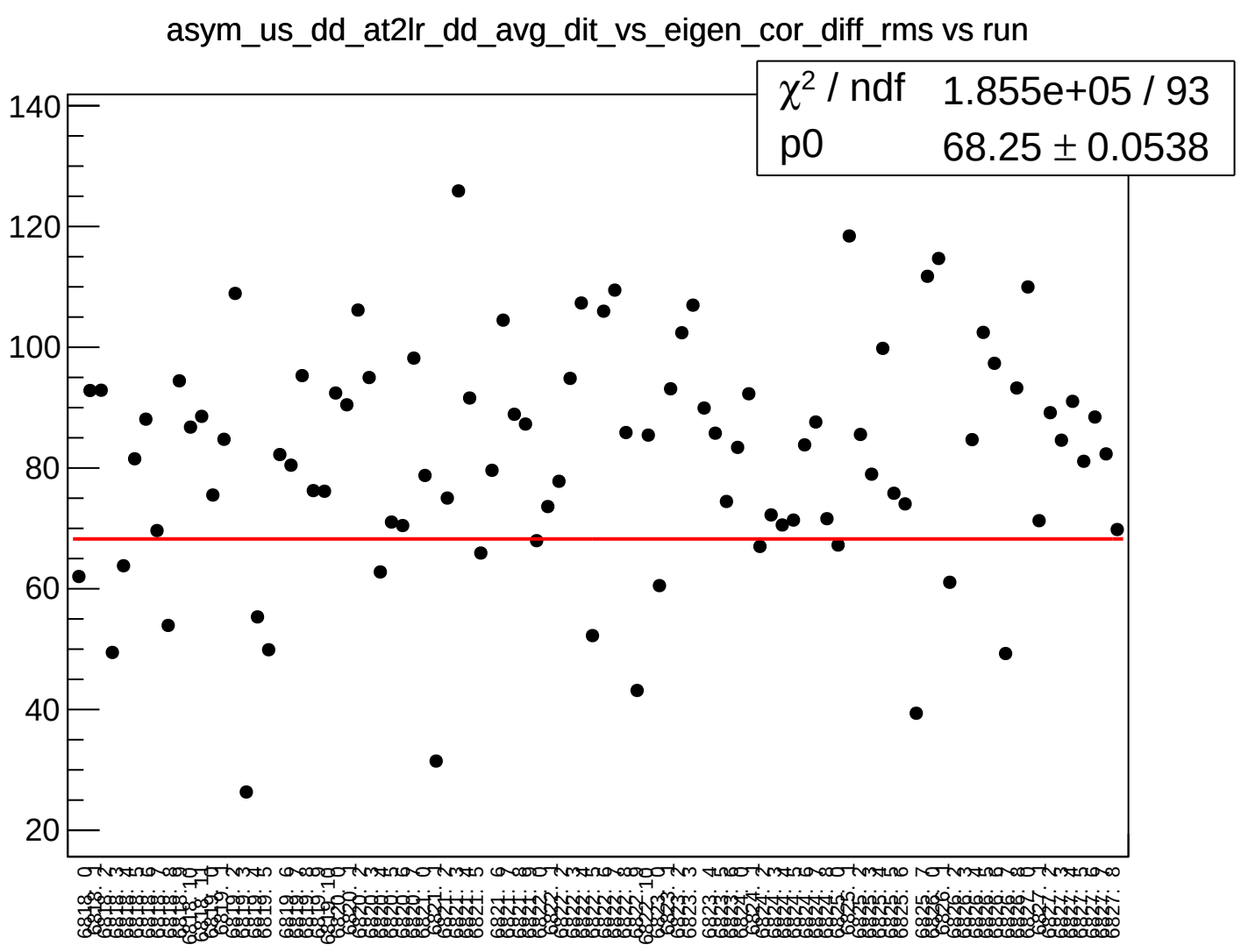

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.08e+06 / 93
p0 3.609e−11 ± 4.268e−14
1
0.8
0.6
0.4
0.2
0

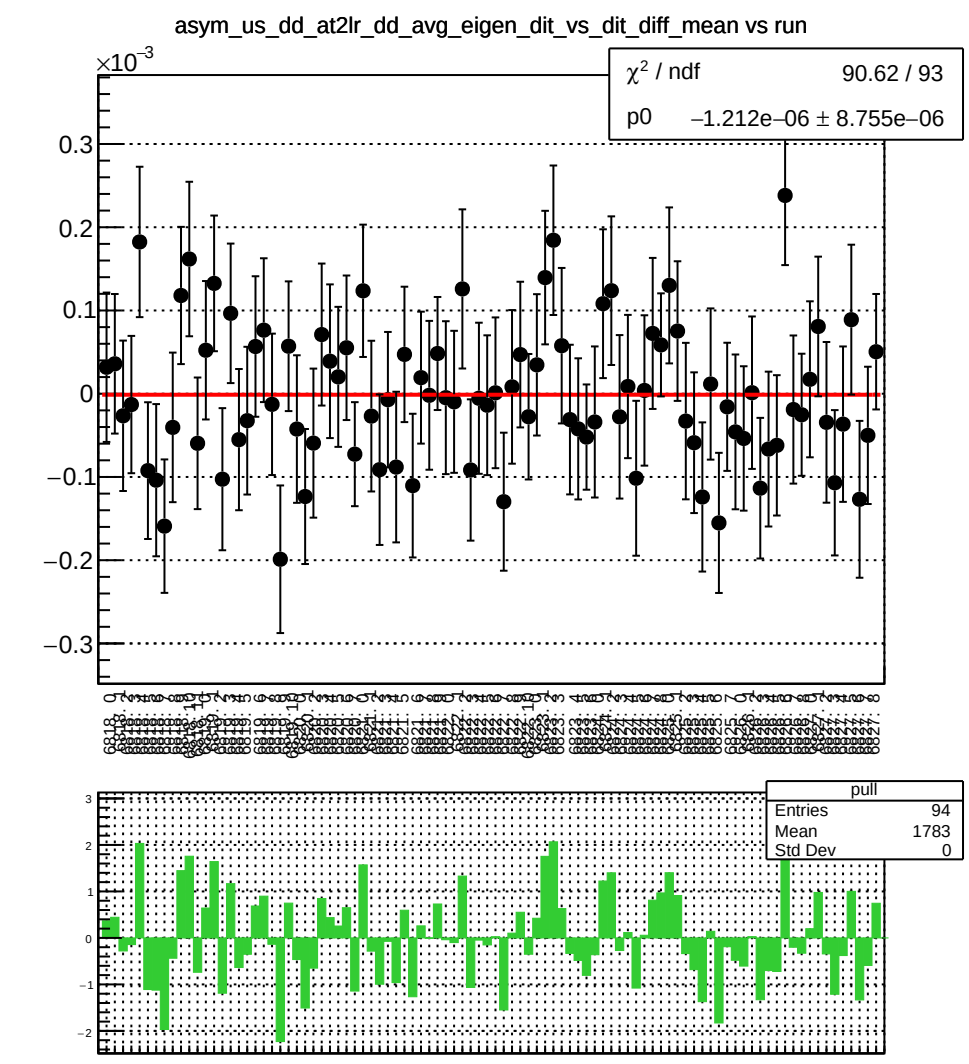

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.88 / 93
p0 −0.05392 ± 0.07608
pull
Entries 94
Mean 90.22
Std Dev 0

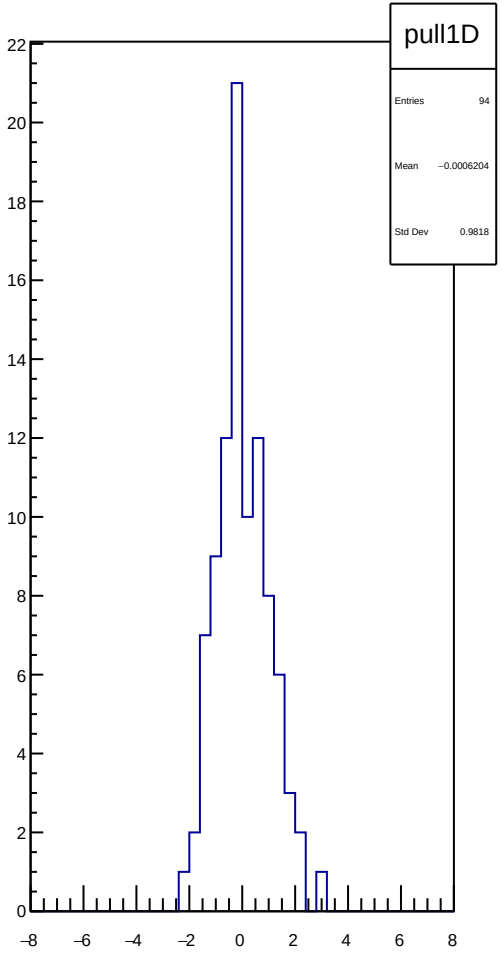

pull1D
Entries 94
Mean 0.01078
Std Dev 0.9778

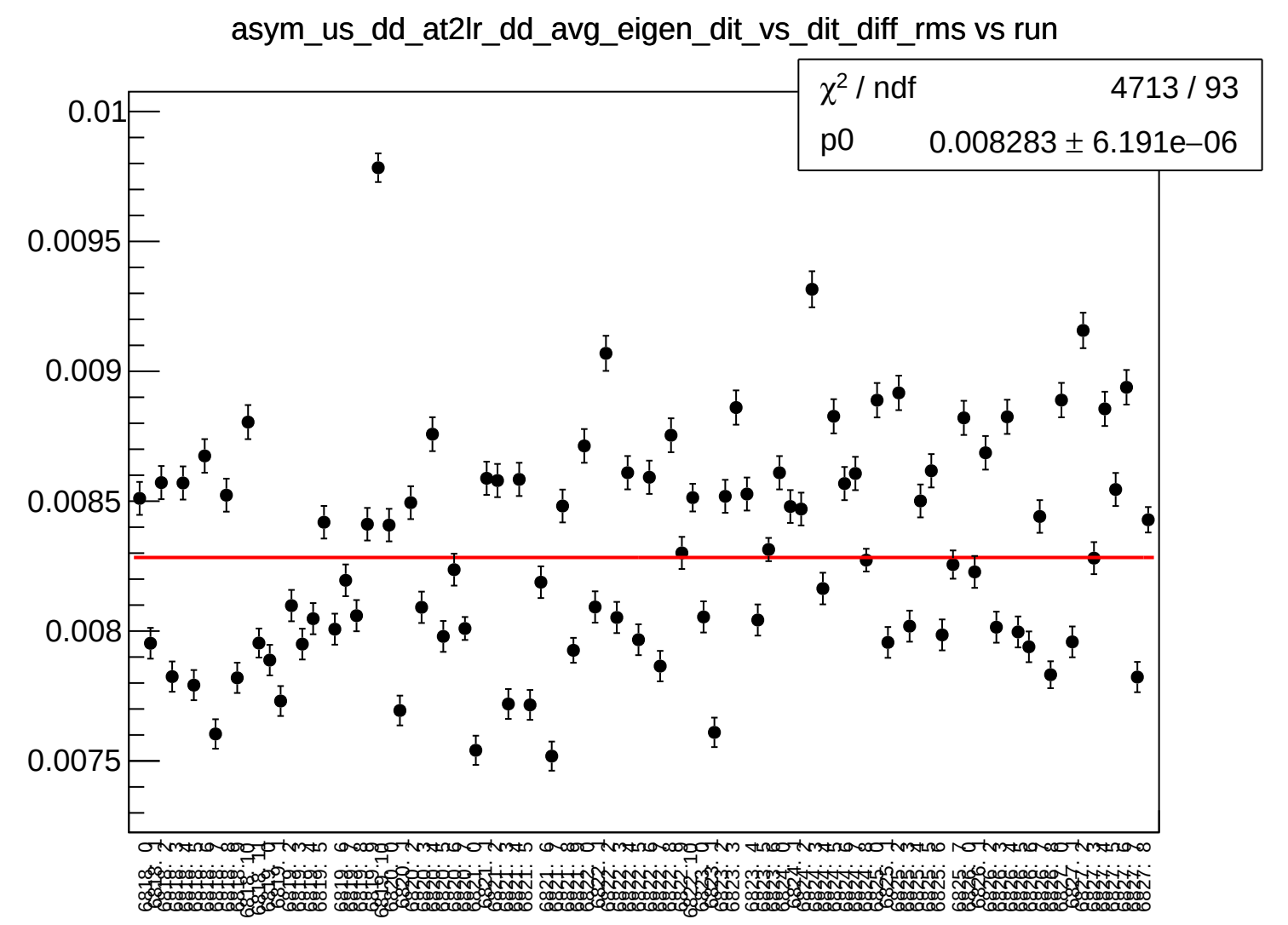

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 93
p0 68.25 ± 0.0538
140
120
100
80
60
40
20

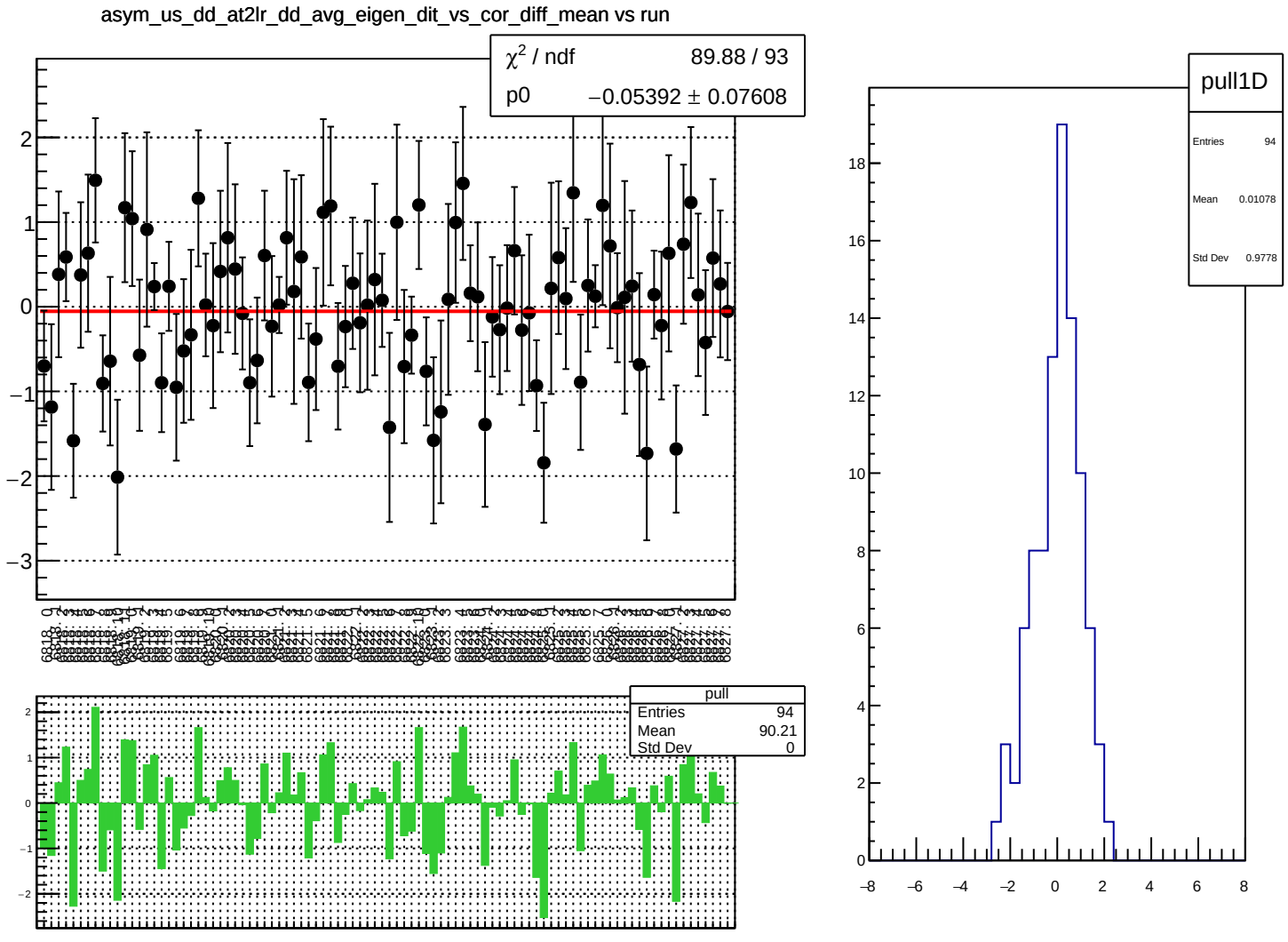

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.88 / 93
p0 −0.05392 ± 0.07608
pull
Entries 94
Mean 90.22
Std Dev 0
pull1D
Entries 94
Mean 0.01078
Std Dev 0.9778

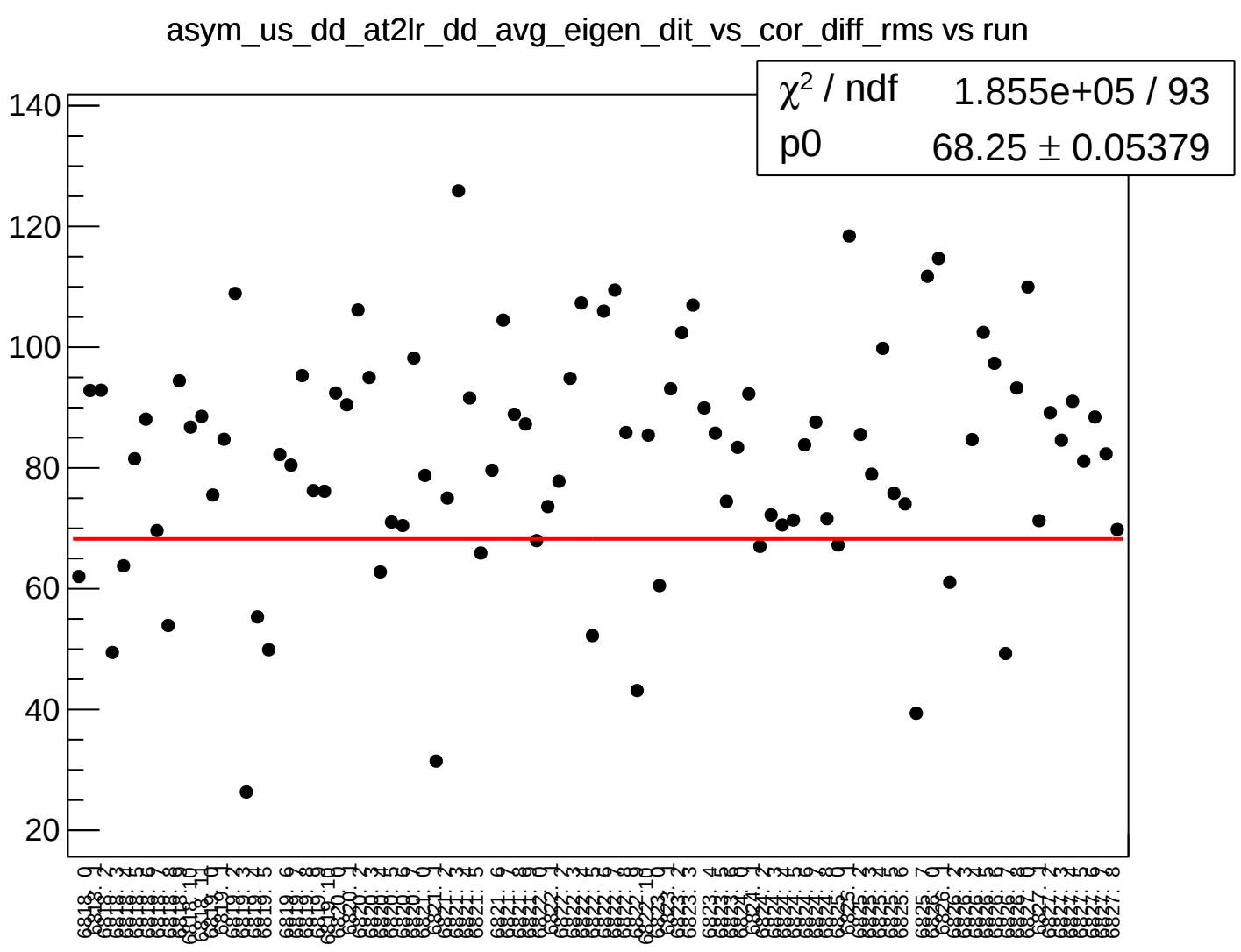

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 93
p0 68.25 ± 0.0538
140
120
100
80
60
40
20

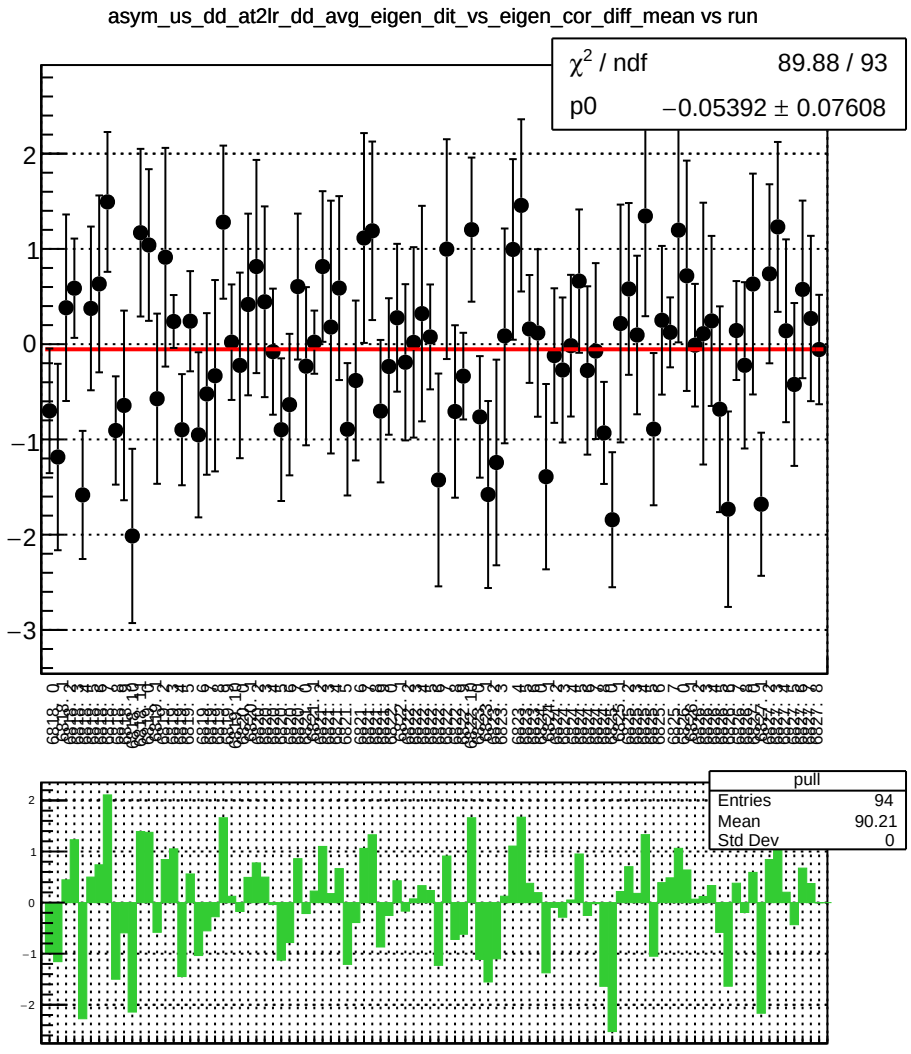

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.62 / 93
p0 −1.212e−06 ± 8.755e−06
pull
Entries 94
Mean 1783
Std Dev 0

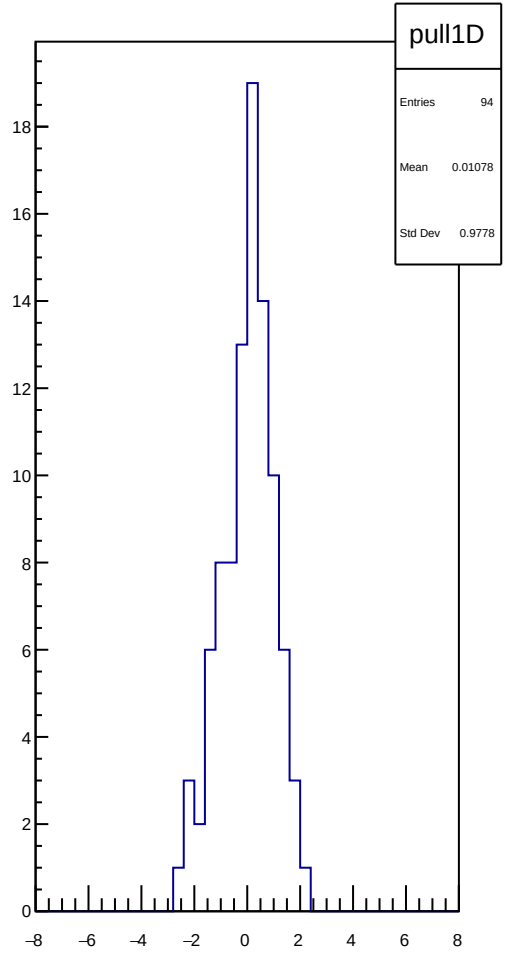

pull1D
Entries 94
Mean −0.0006204
Std Dev 0.9818

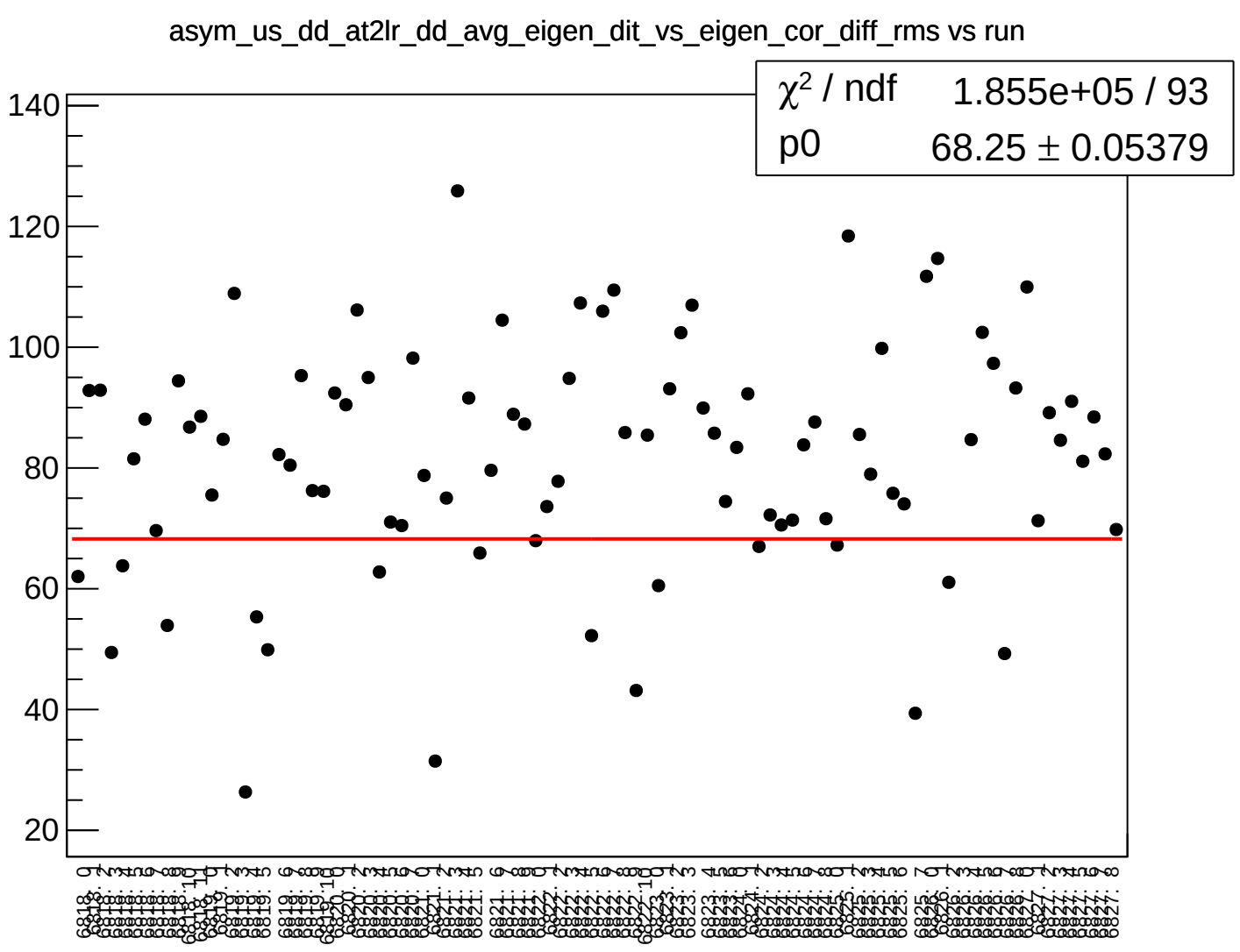

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4713 / 93
p0 0.008283 ± 6.191e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075

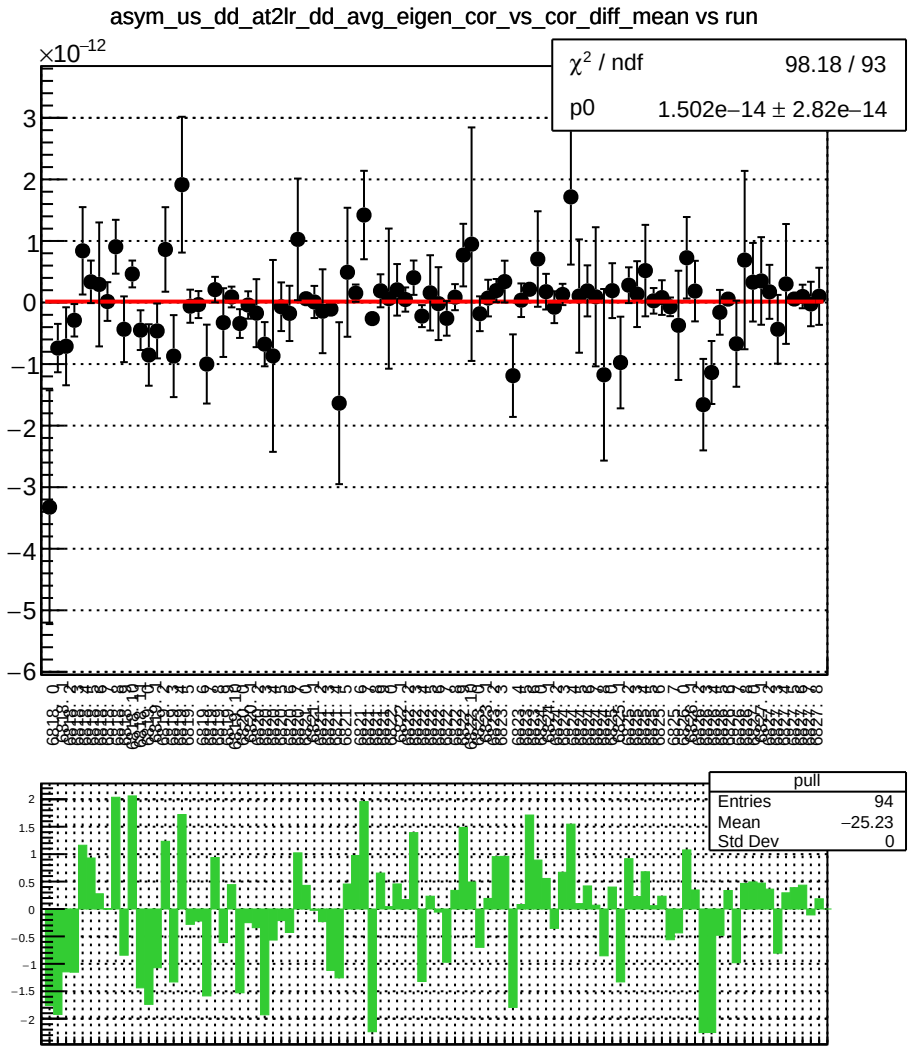

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.88 / 93
p0 −0.05392 ± 0.07608
pull
Entries 94
Mean 90.21
Std Dev 0
pull1D
Entries 94
Mean 0.01078
Std Dev 0.9778

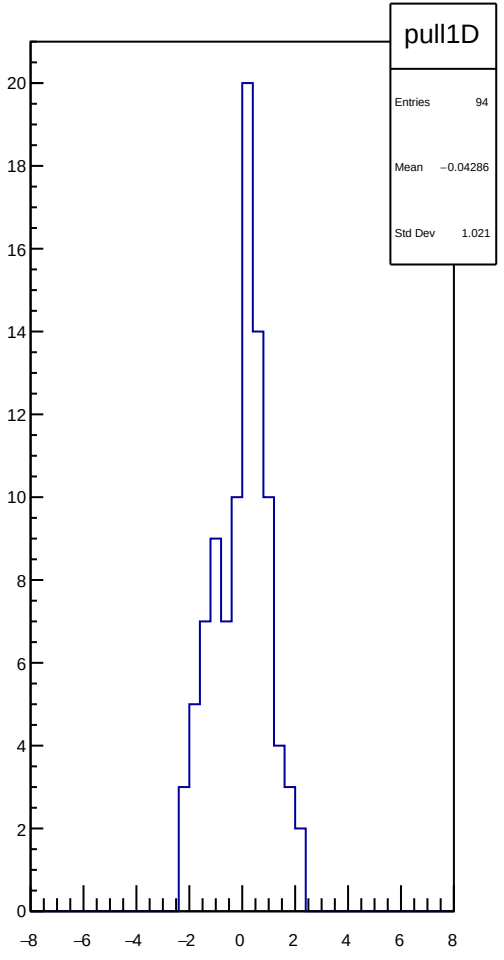

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 93
p0 68.25 ± 0.05379
140
120
100
80
60
40
20

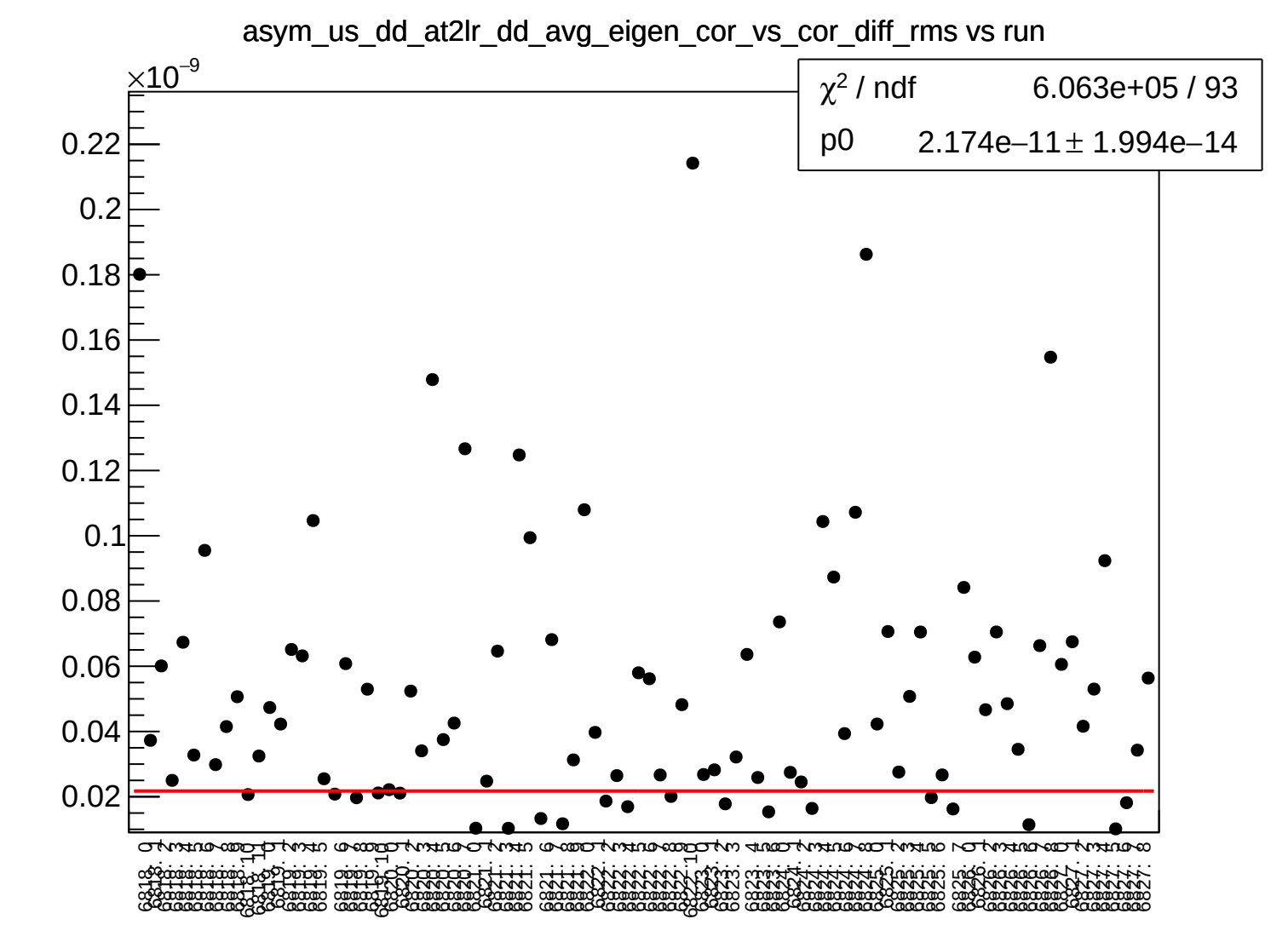

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.88 / 93
p0 −0.05392 ± 0.07608
pull
Entries 94
Mean 90.21
Std Dev 0

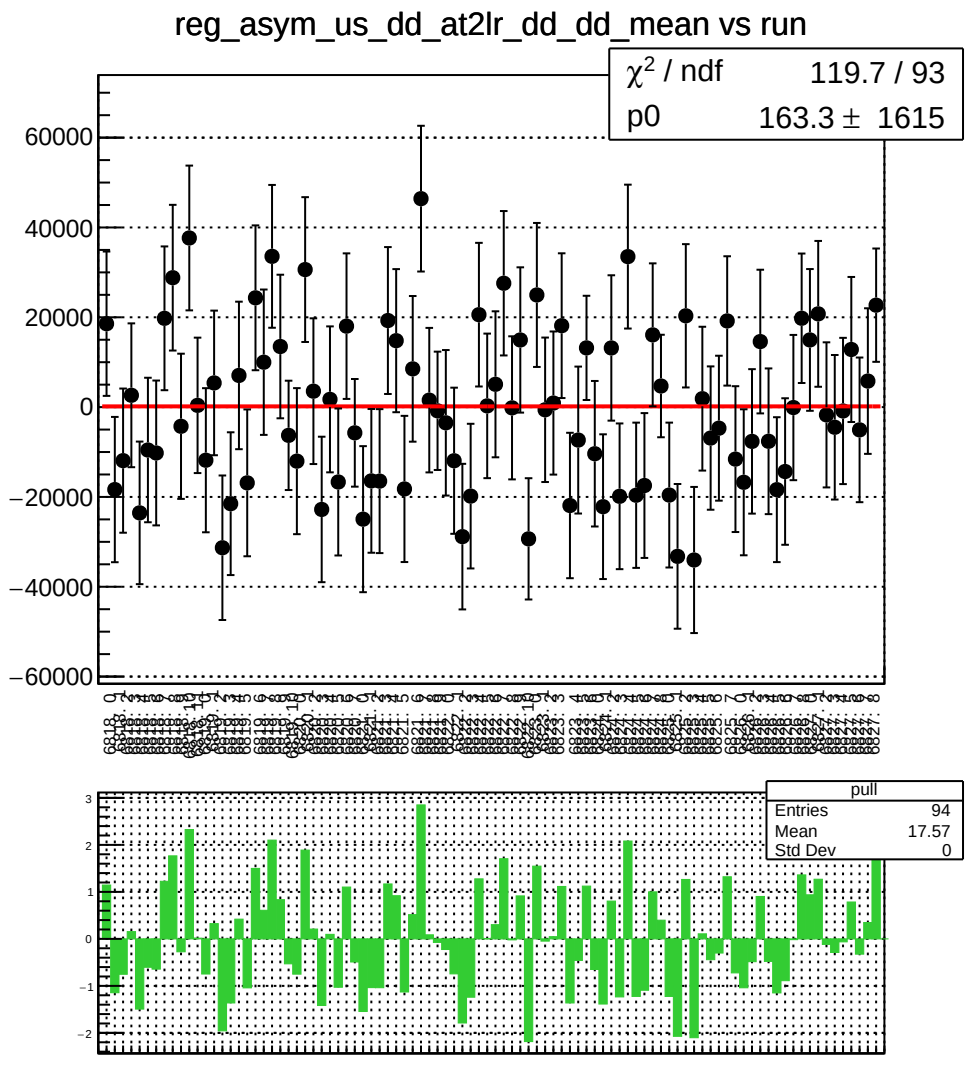

pull1D
Entries 94
Mean 0.01078
Std Dev 0.9778

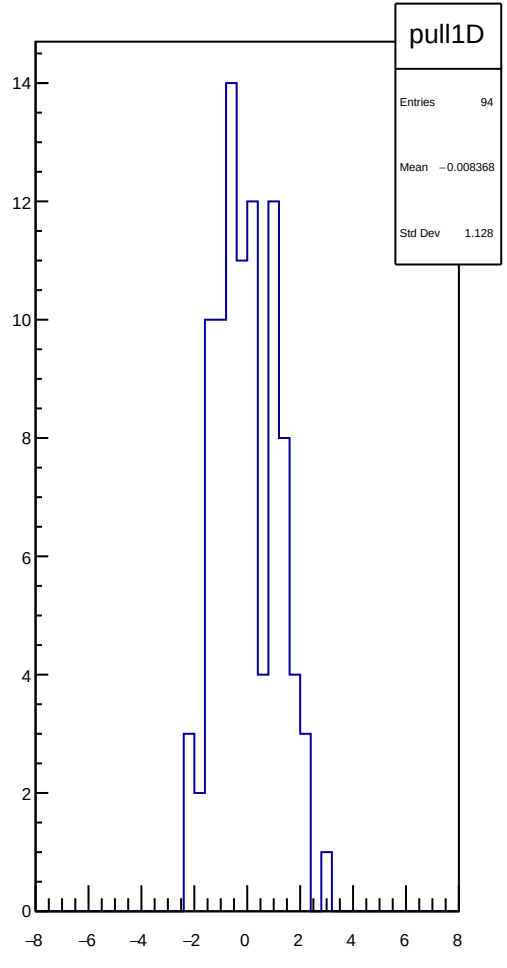

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.855e+05 / 93
p0 68.25 ± 0.05379
140
120
100
80
60
40
20

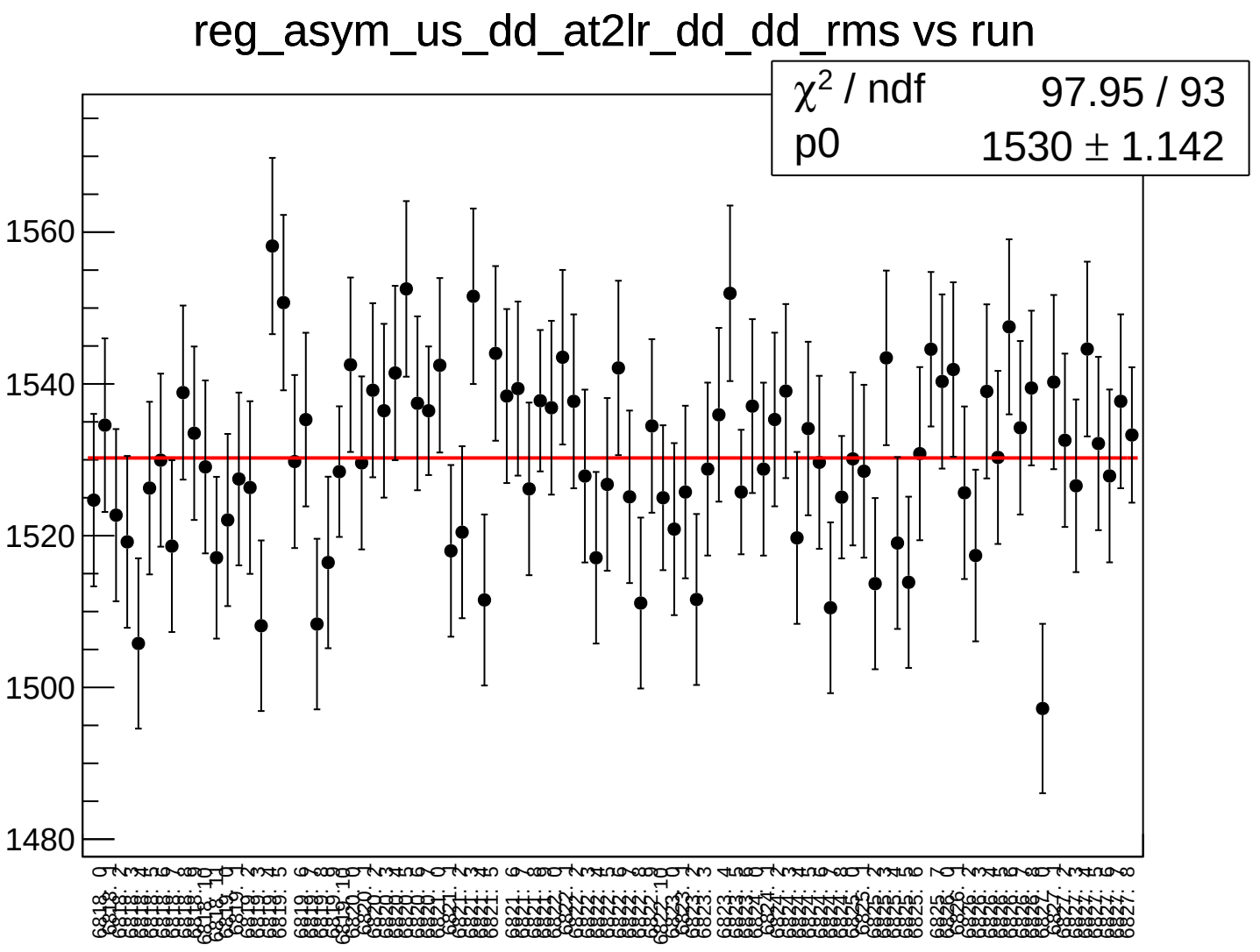

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.18 / 93
p0 1.502e−14 ± 2.82e−14
pull
Entries 94
Mean −25.23
Std Dev 0

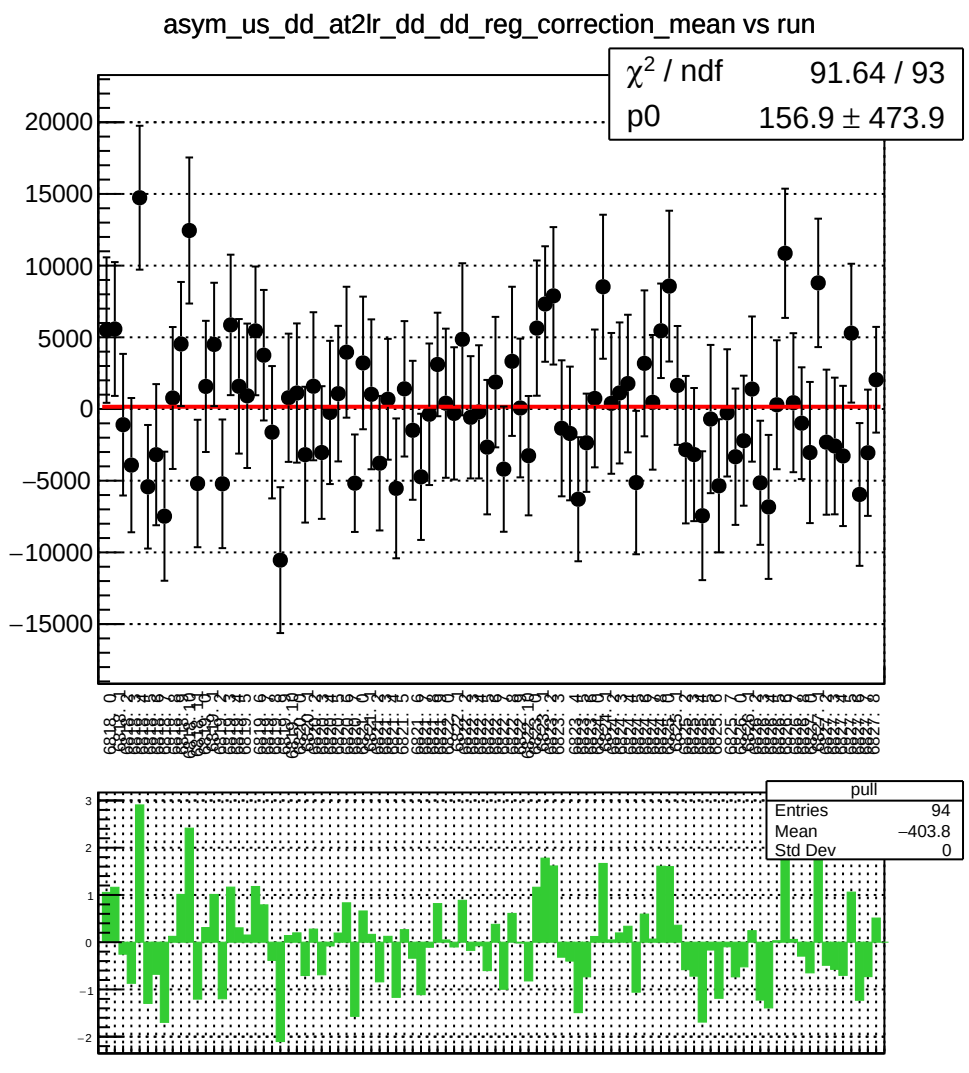

pull1D
Entries 94
Mean −0.04286
Std Dev 1.021

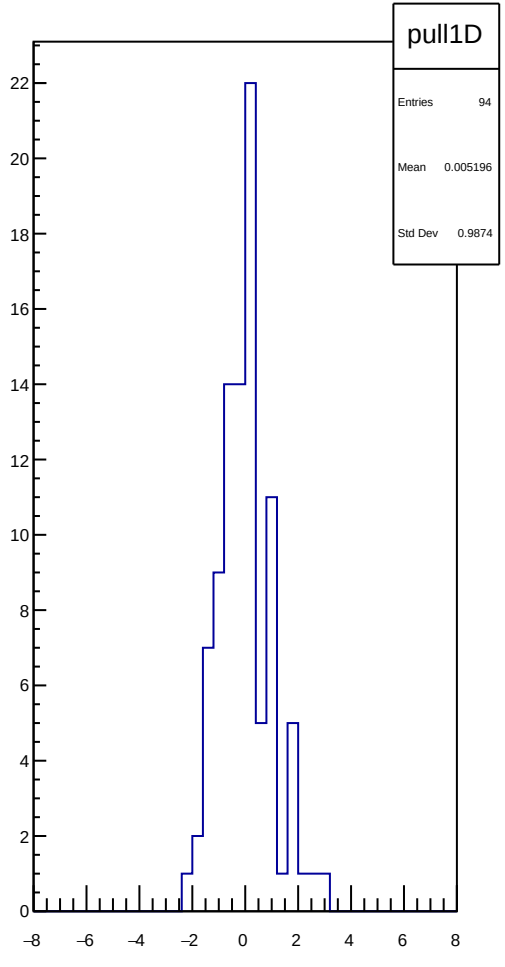

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.063e+05 / 93
p0 2.174e−11 ± 1.994e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

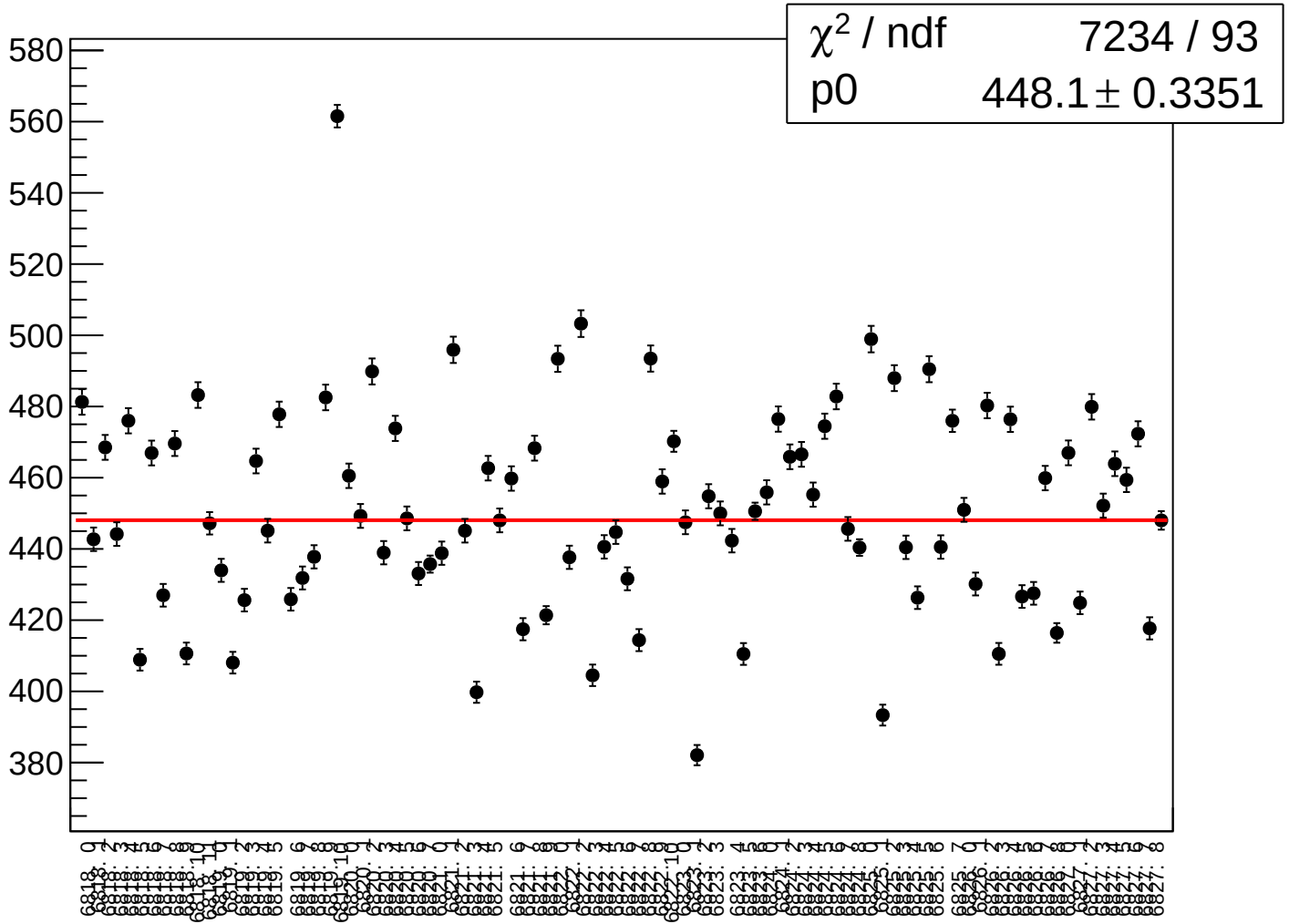

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.7 / 93
p0 163.3 ± 1615
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 17.57
Std Dev 0
3
2
1
0
−1
−2

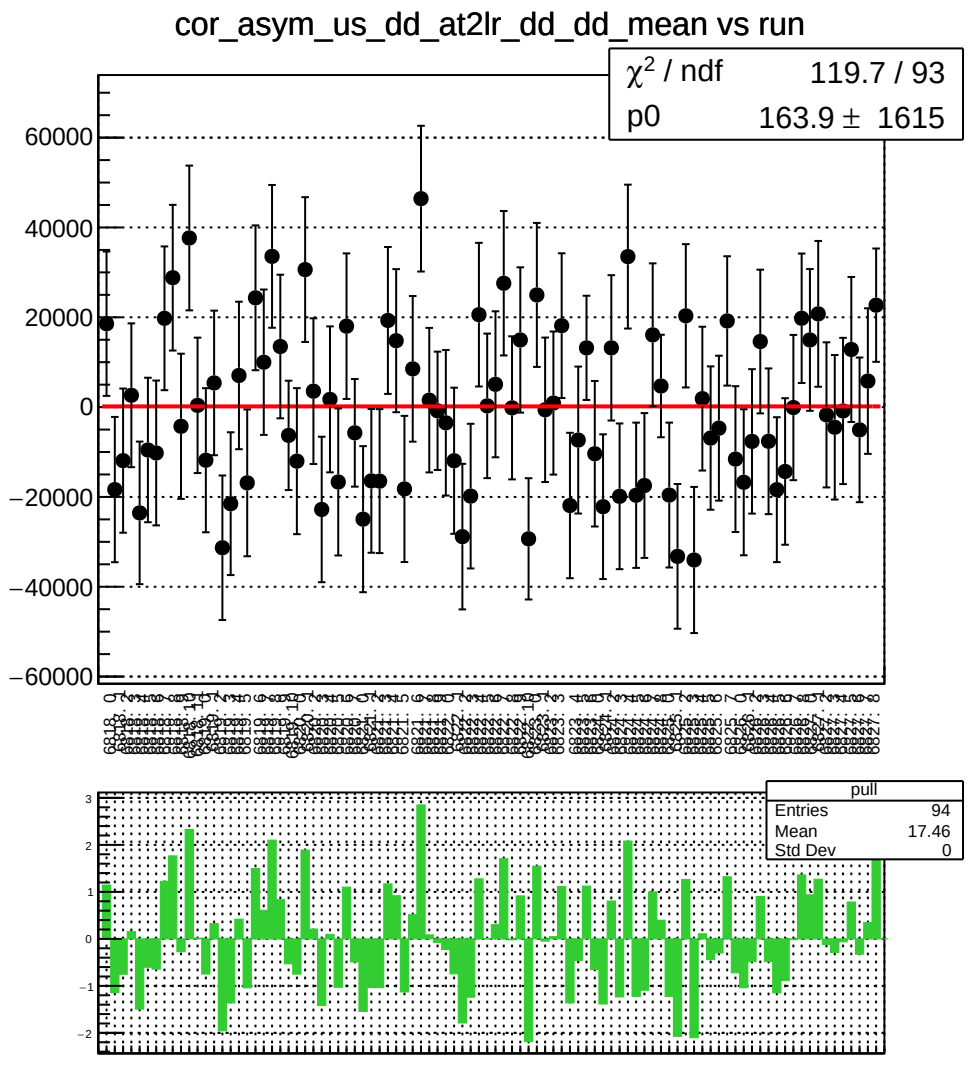

pull1D
Entries 94
Mean −0.008368
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

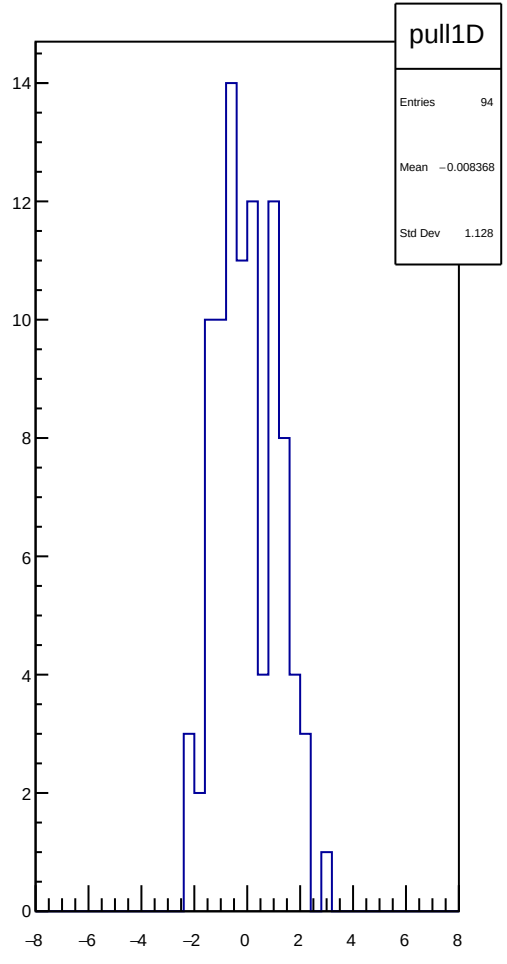

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 97.95 / 93
p0 1530 ± 1.142
1560
1540
1520
1500
1480

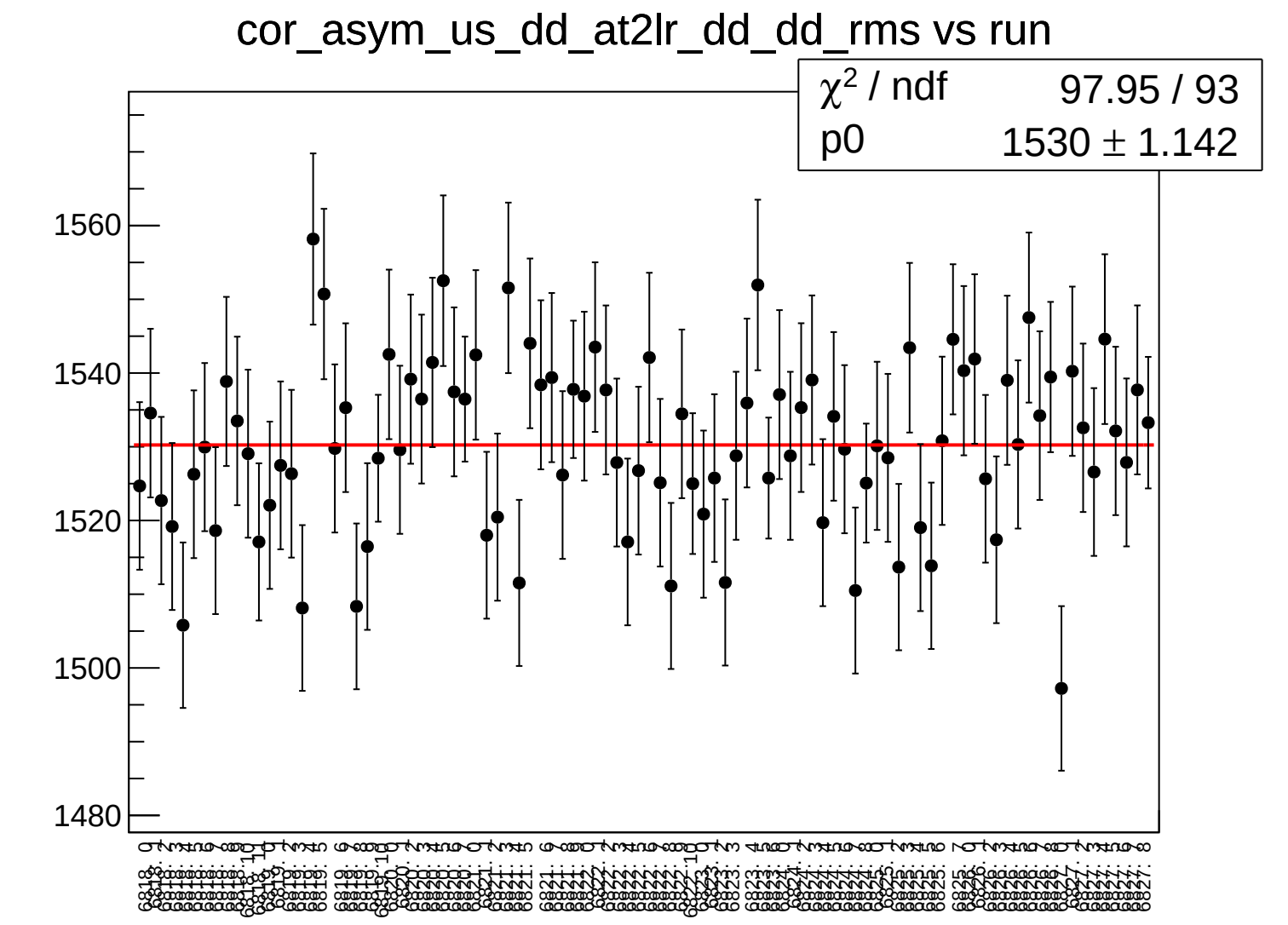

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 91.64 / 93
p0 156.9 ± 473.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −403.8
Std Dev 0
3
2
1
0
−1
−2

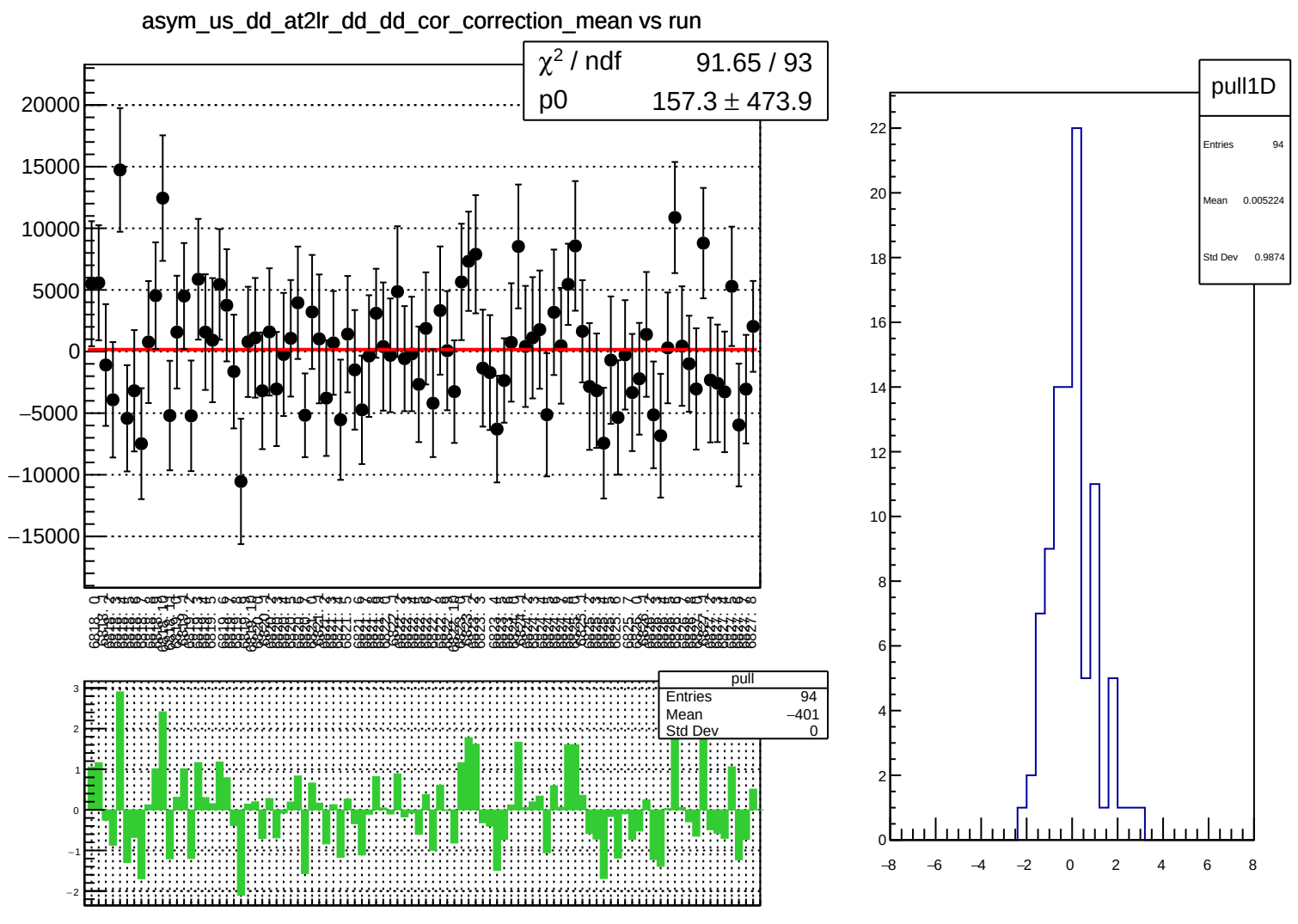

pull1D
Entries 94
Mean 0.005196
Std Dev 0.9874
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

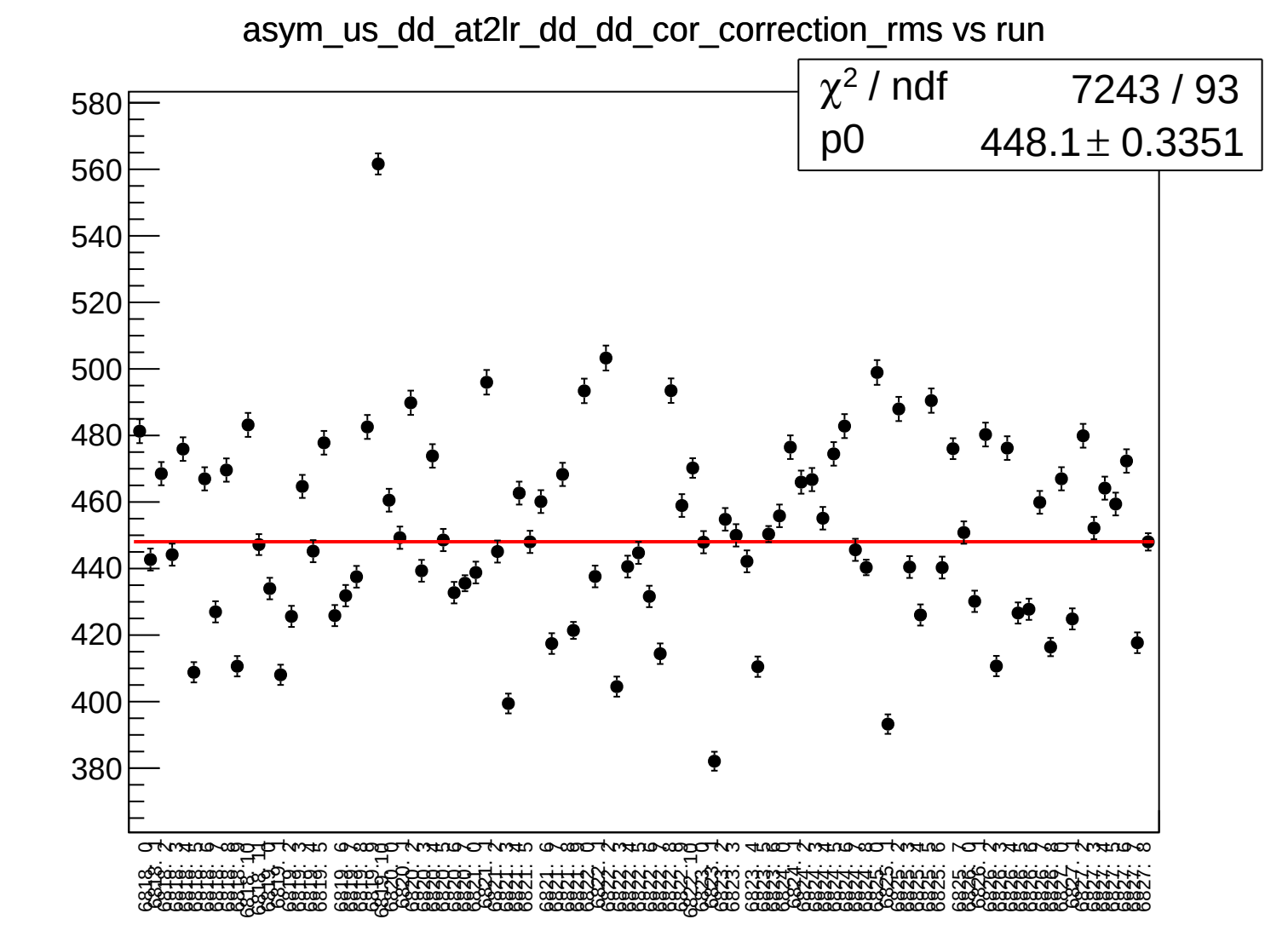

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7234 / 93
p0 448.1 ± 0.3351
580
560
540
520
500
480
460
440
420
400
380

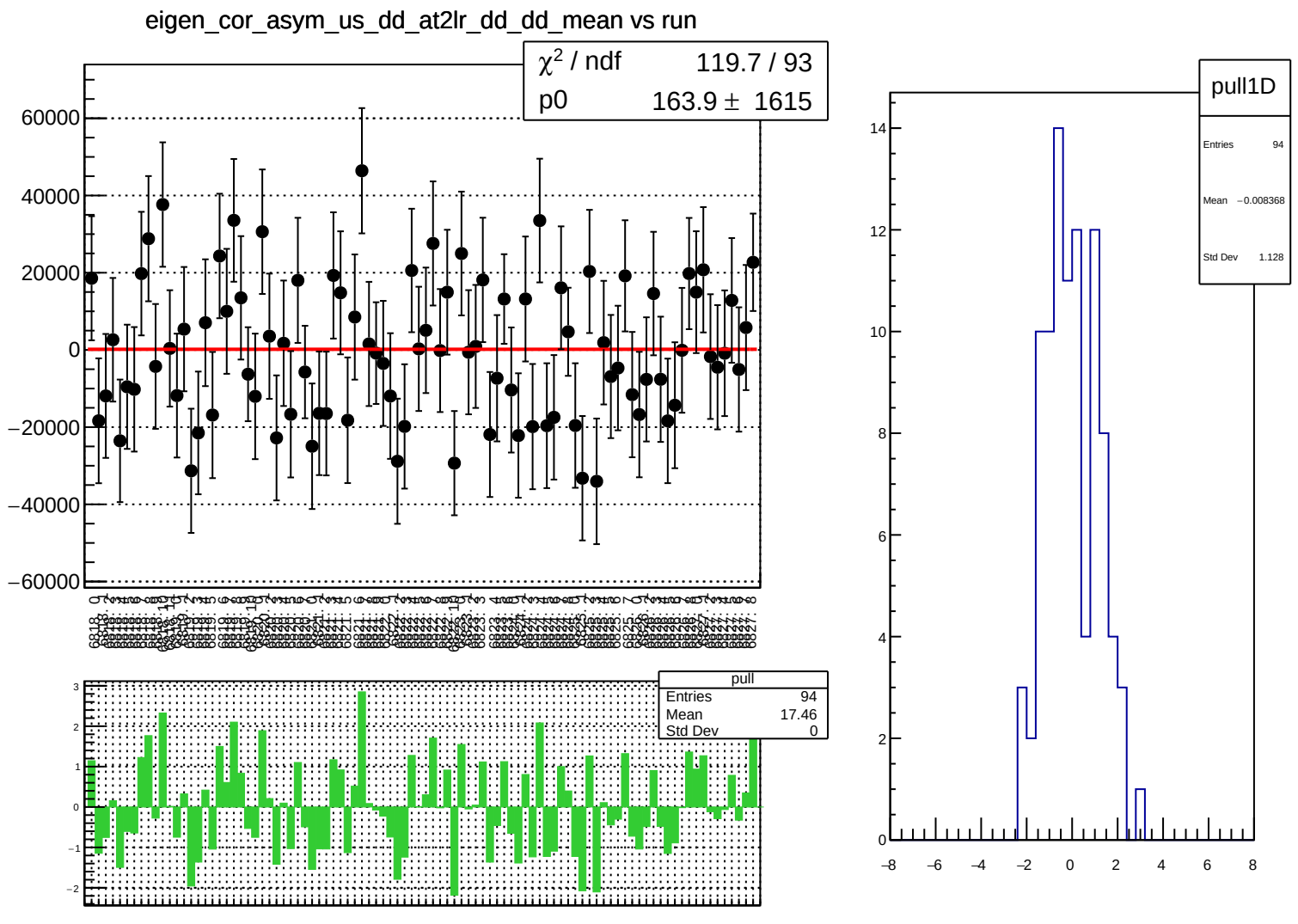

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.7 / 93
p0 163.9 ± 1615
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 17.46
Std Dev 0
3
2
1
0
−1
−2

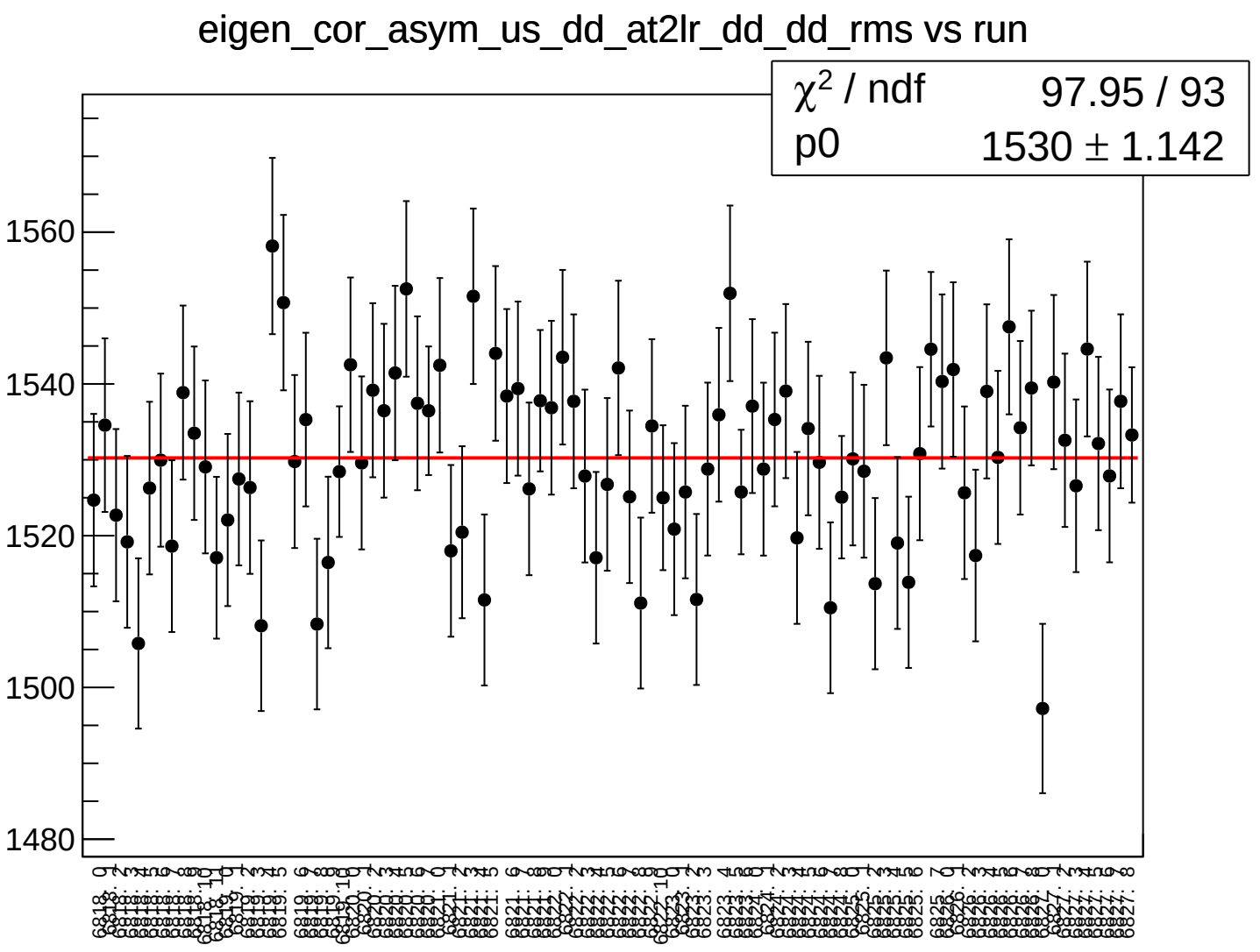

pull1D
Entries 94
Mean −0.008368
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

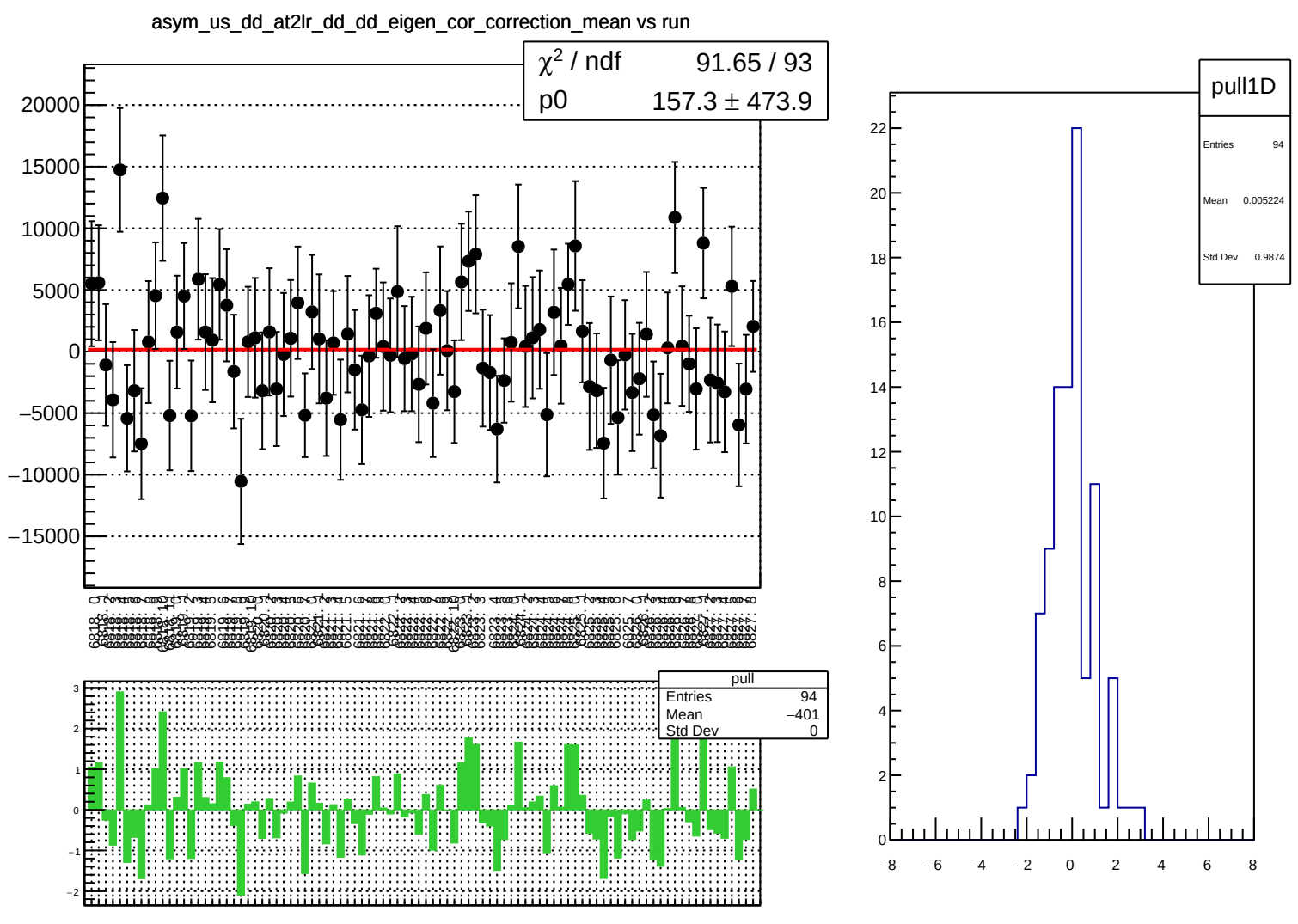

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 97.95 / 93
p0 1530 ± 1.142
1560
1540
1520
1500
1480

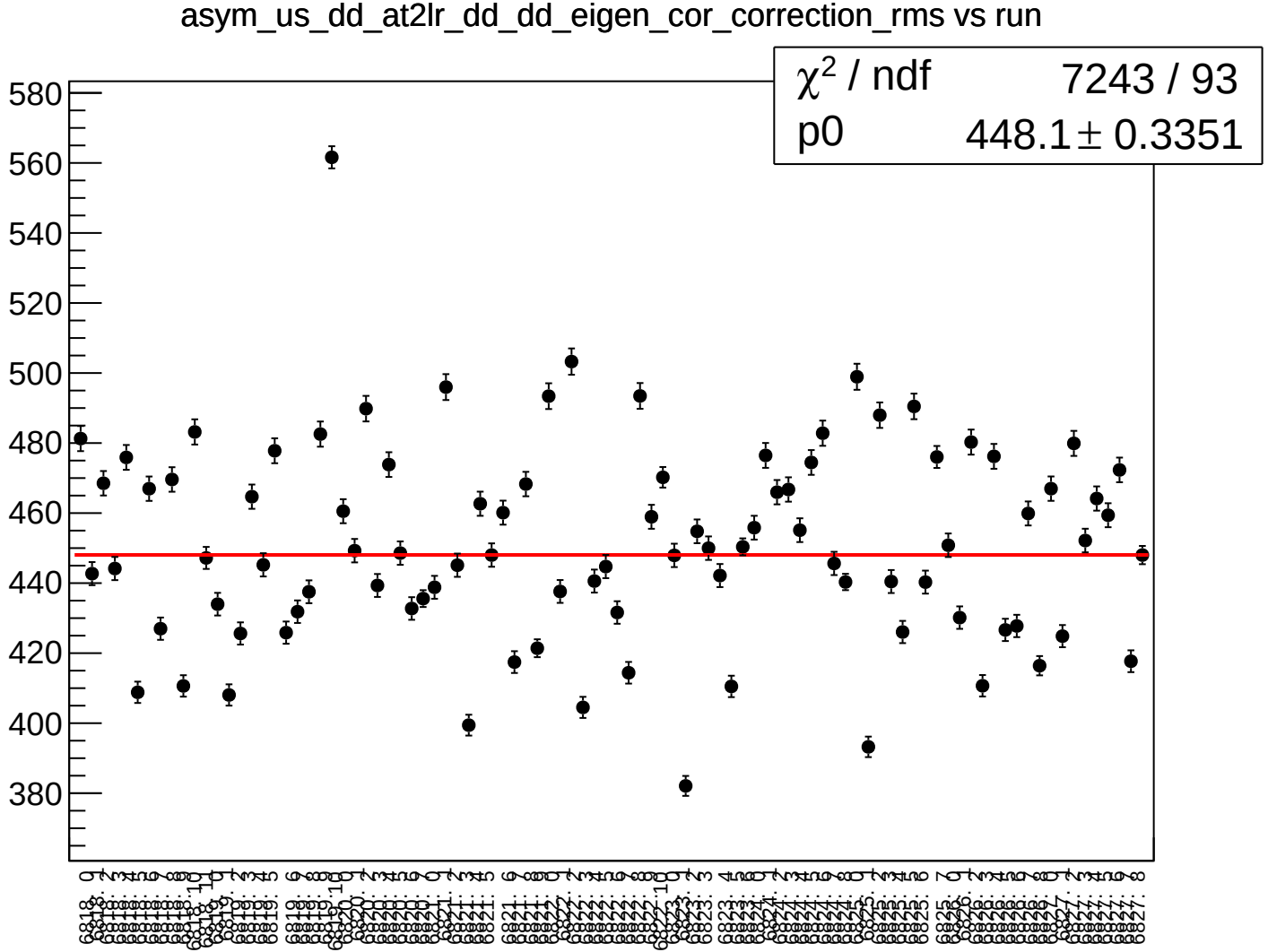

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 91.65 / 93
p0 157.3 ± 473.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −401
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005224
Std Dev 0.9874
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

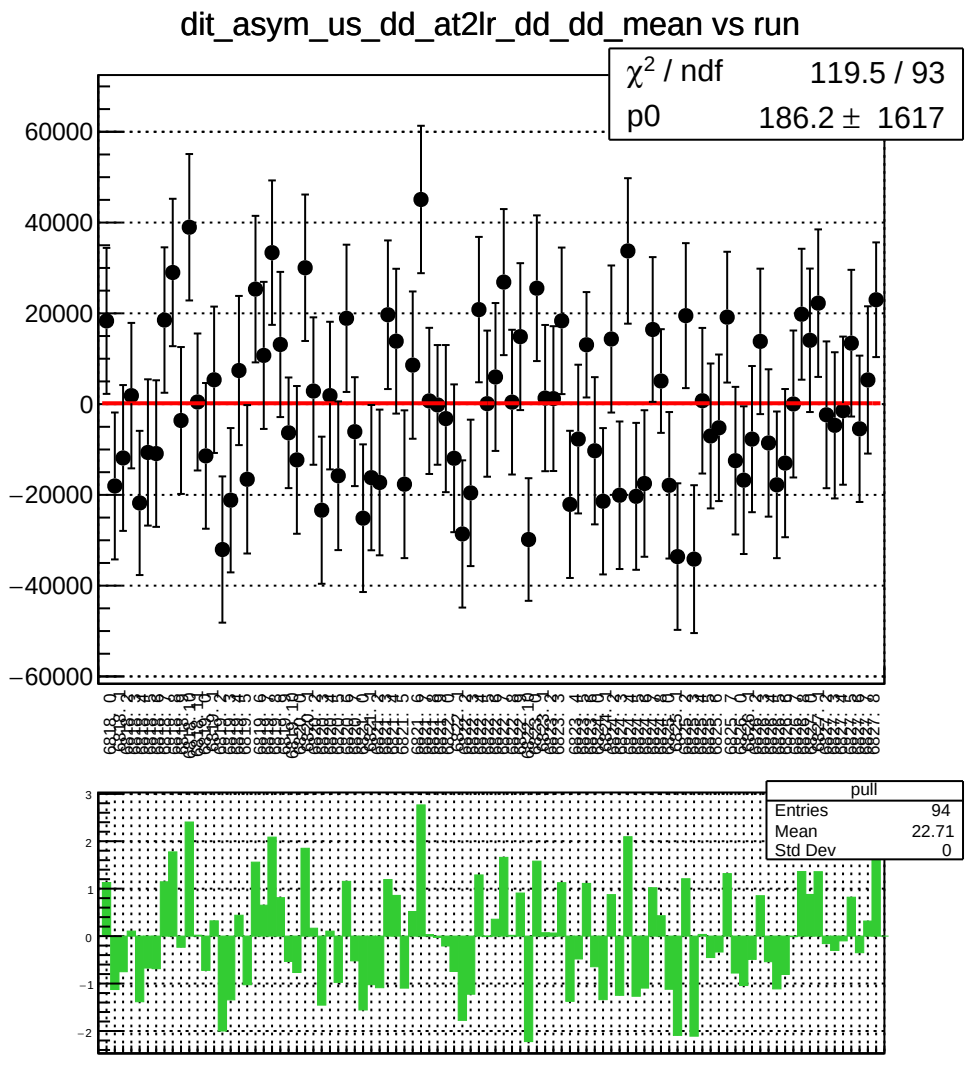

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7243 / 93
p0 448.1 ± 0.3351
580
560
540
520
500
480
460
440
420
400
380

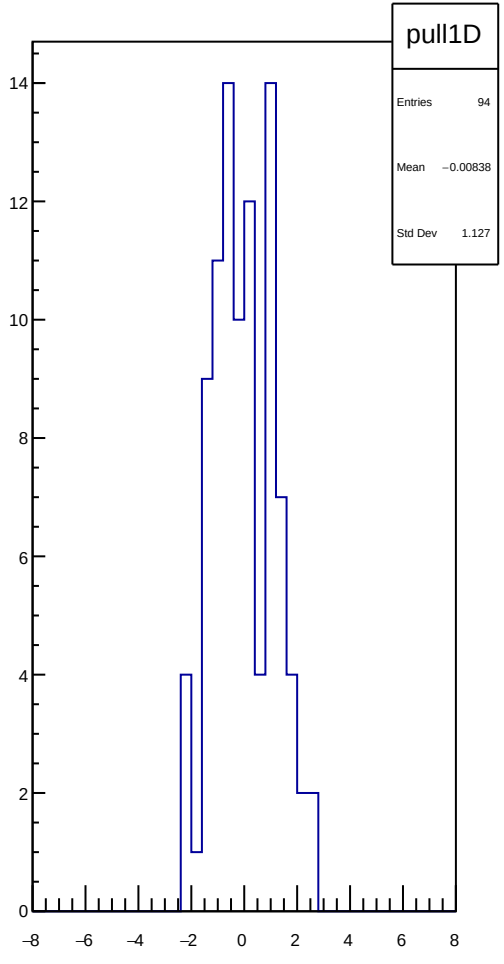

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.7 / 93
p0 163.9 ± 1615
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 17.46
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.008368
Std Dev 1.128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

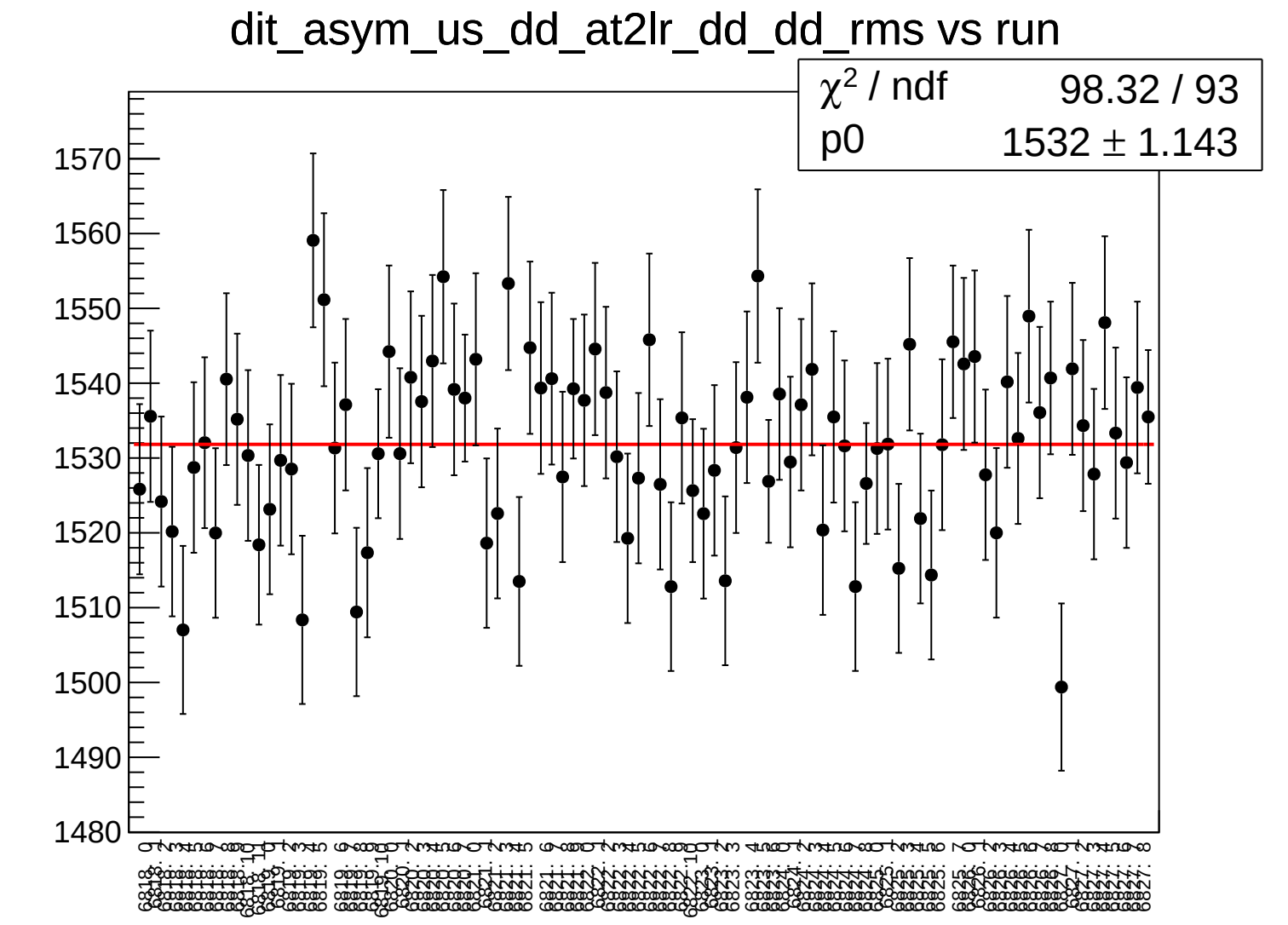

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 97.95 / 93
p0 1530 ± 1.142
1560
1540
1520
1500
1480

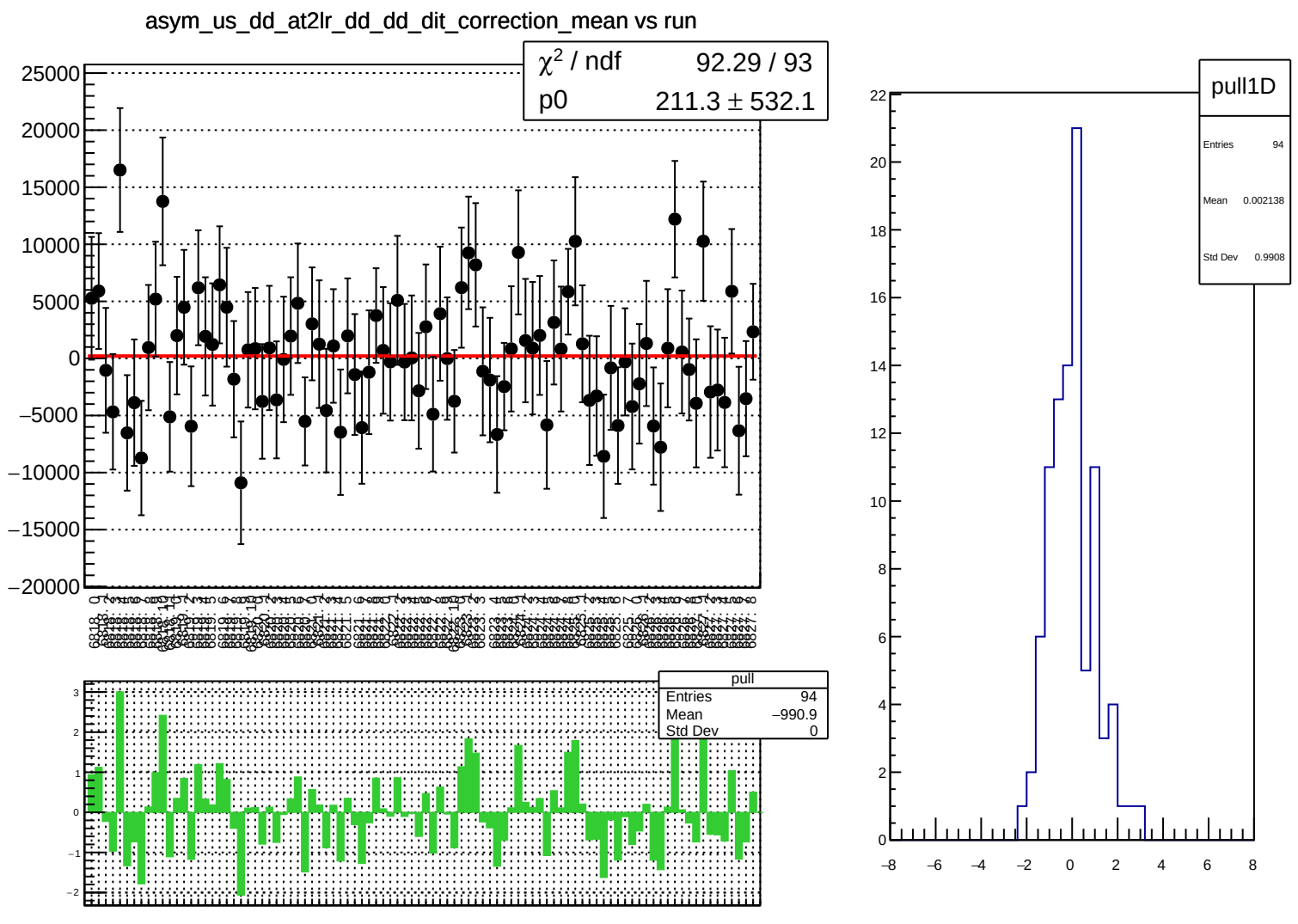

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 91.65 / 93
p0 157.3 ± 473.9
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −401
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005224
Std Dev 0.9874
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

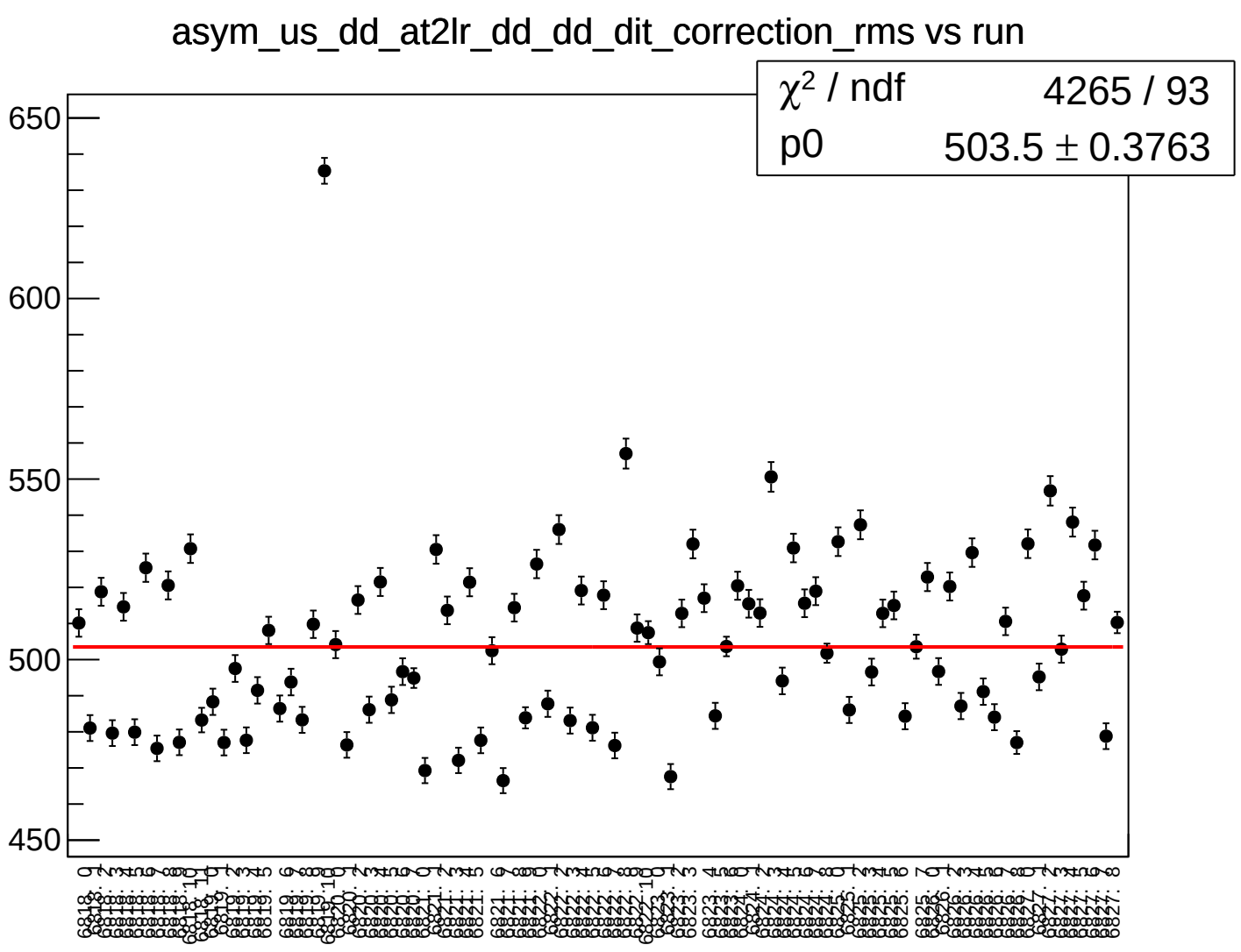

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7243 / 93
p0 448.1 ± 0.3351
580
560
540
520
500
480
460
440
420
400
380

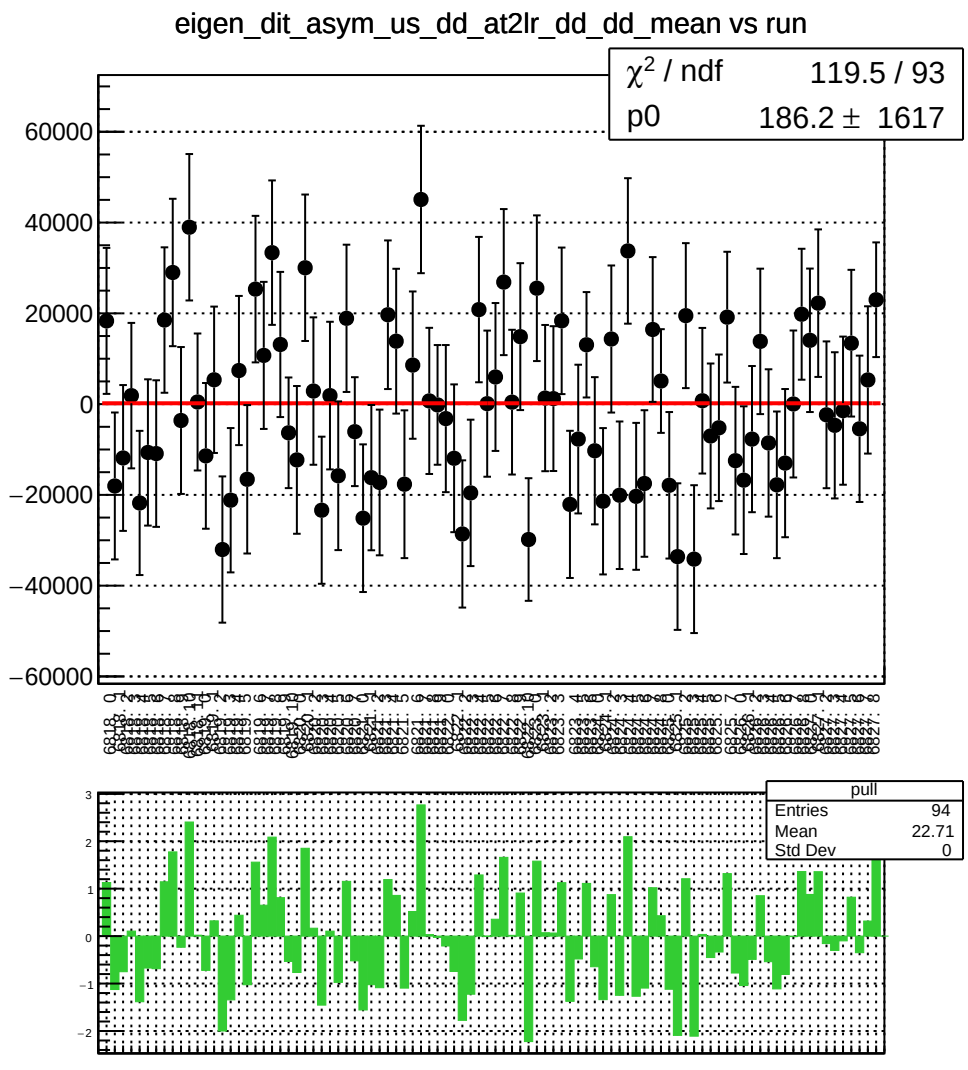

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.5 / 93
p0 186.2 ± 1617
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 22.71
Std Dev 0
3
2
1
0
−1
−2

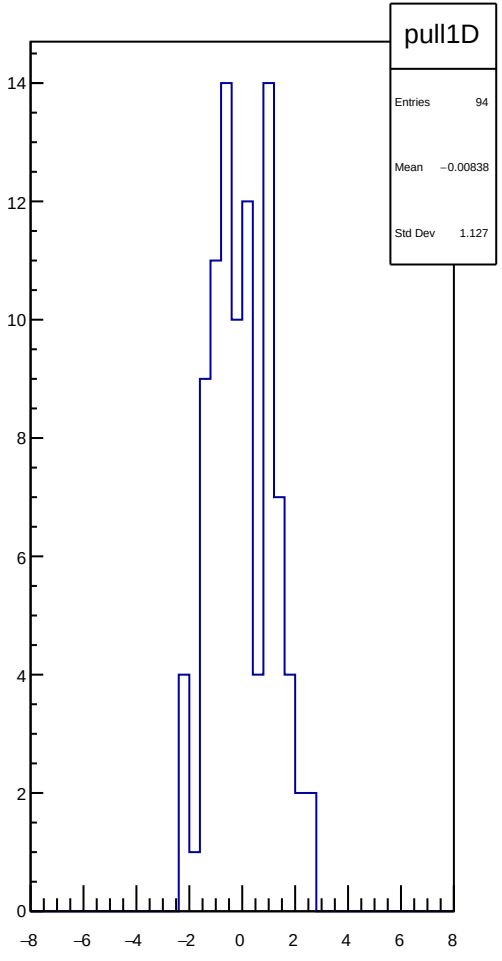

pull1D
Entries 94
Mean −0.00838
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

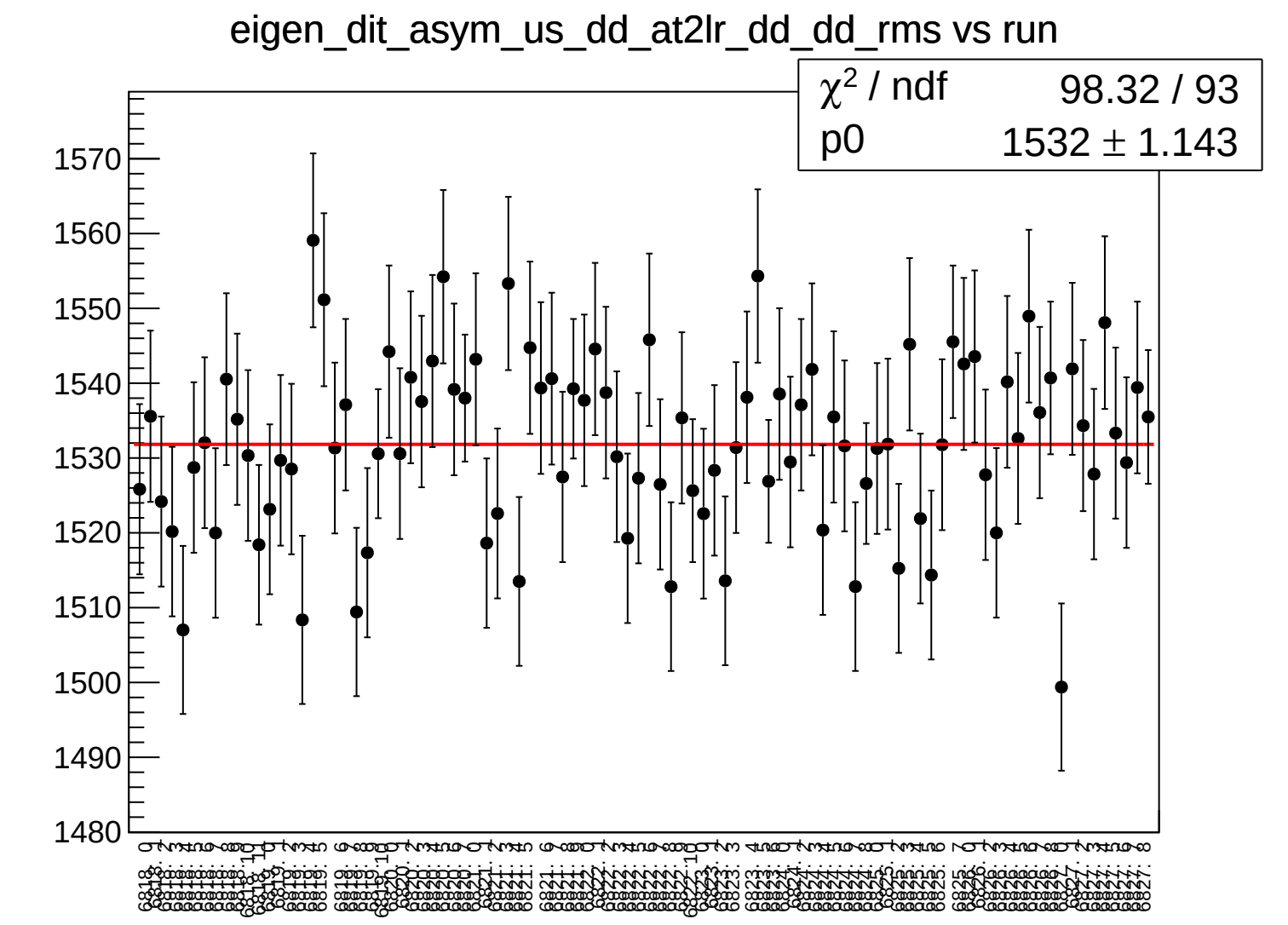

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 98.32 / 93
p0 1532 ± 1.143
1570
1560
1550
1540
1530
1520
1510
1500
1490
1480

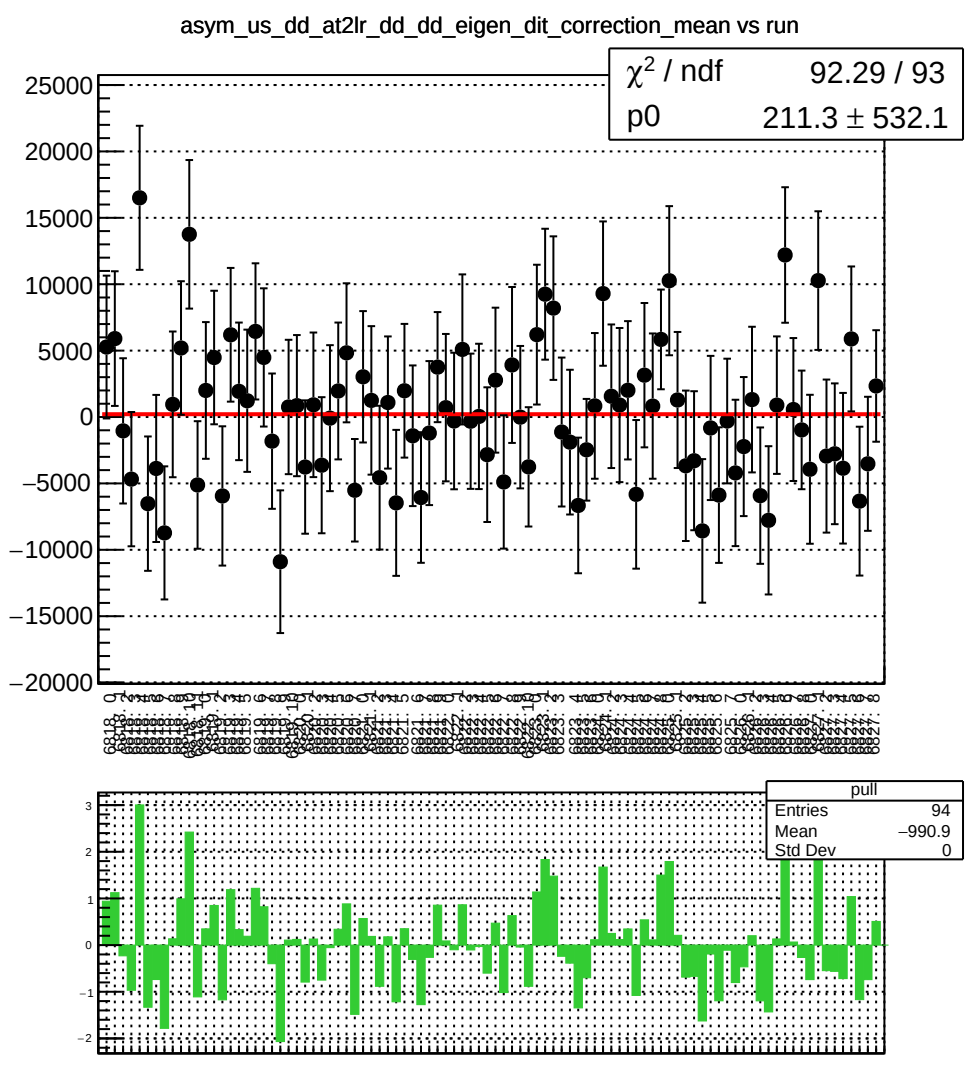

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 92.29 / 93
p0 211.3 ± 532.1
pull
Entries 94
Mean −990.9
Std Dev 0
pull1D
Entries 94
Mean 0.002138
Std Dev 0.9908

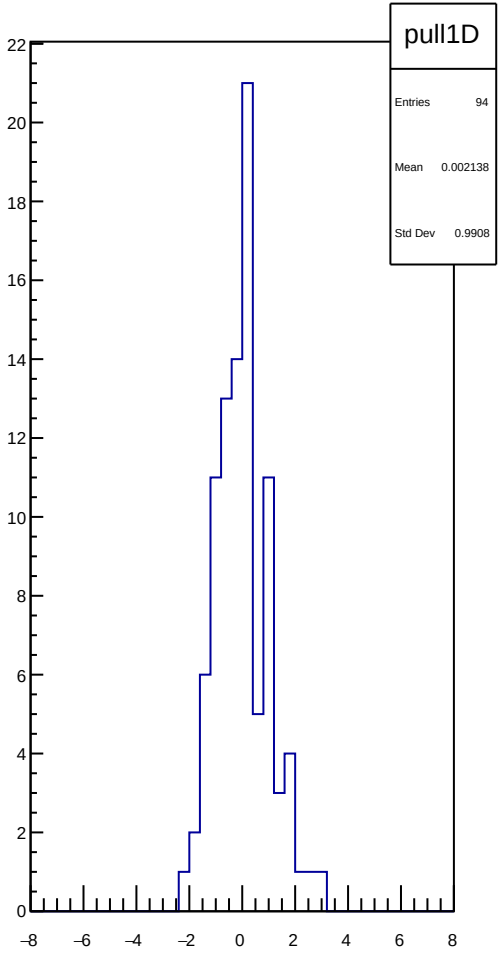

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4265 / 93
p0 503.5 ± 0.3763
650
600
550
500
450

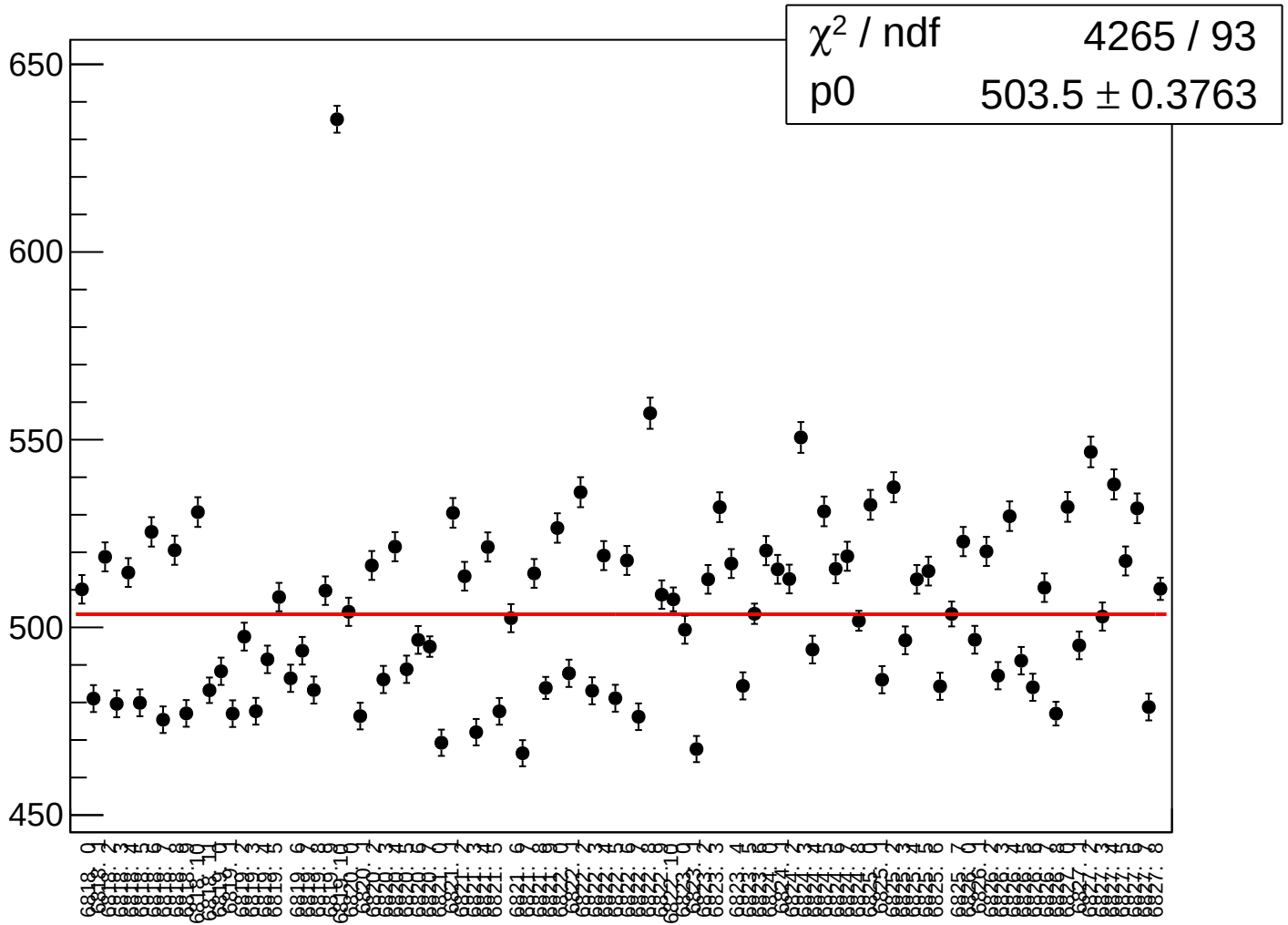

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.5 / 93
p0 186.2 ± 1617
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean 22.71
Std Dev 0
3
2
1
0
−1
−2

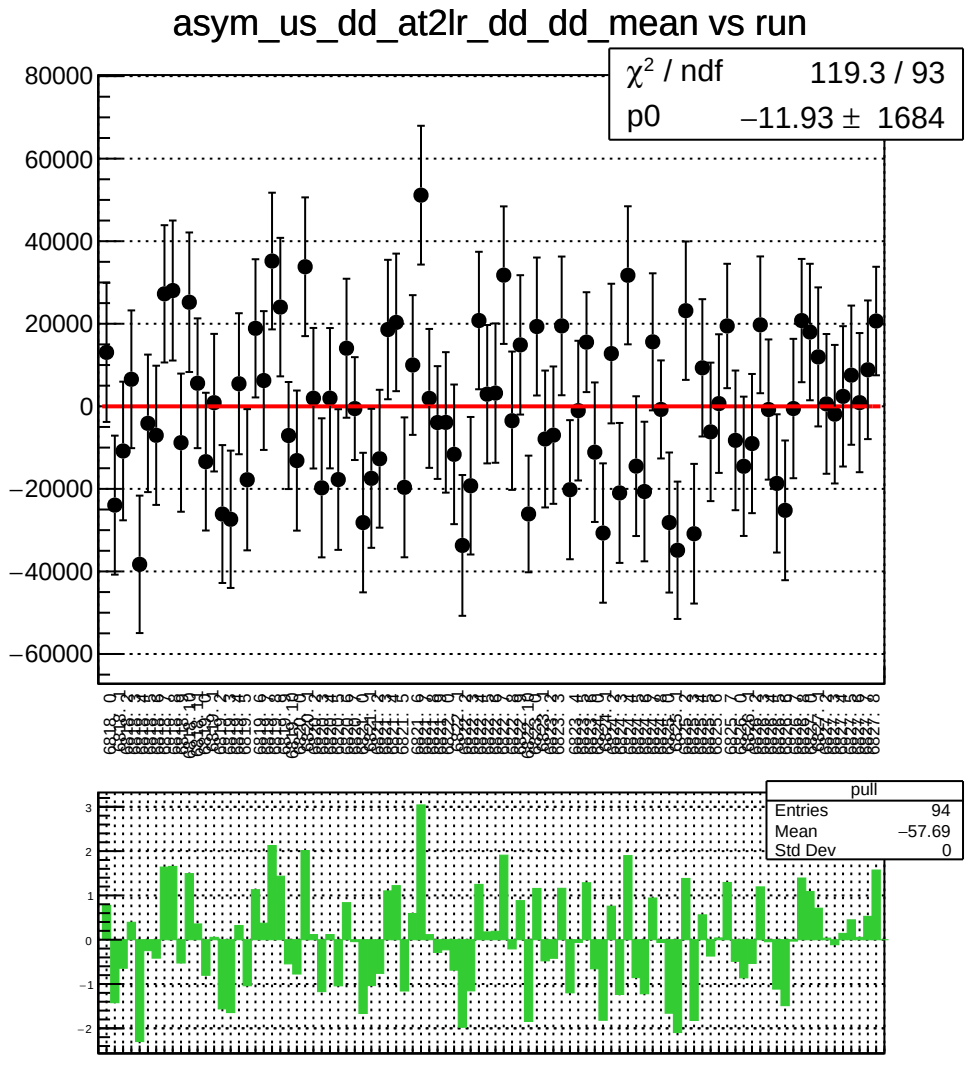

pull1D
Entries 94
Mean −0.00838
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

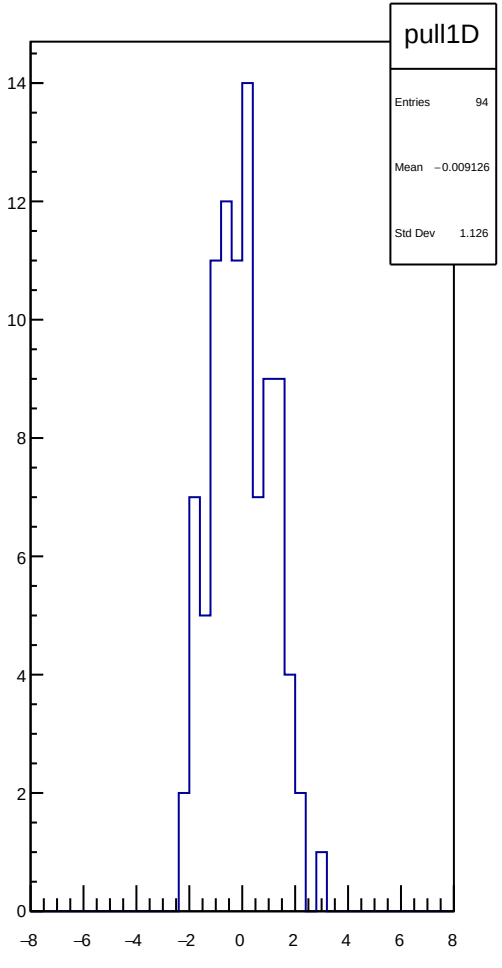

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 98.32 / 93
p0 1532 ± 1.143
1570
1560
1550
1540
1530
1520
1510
1500
1490
1480

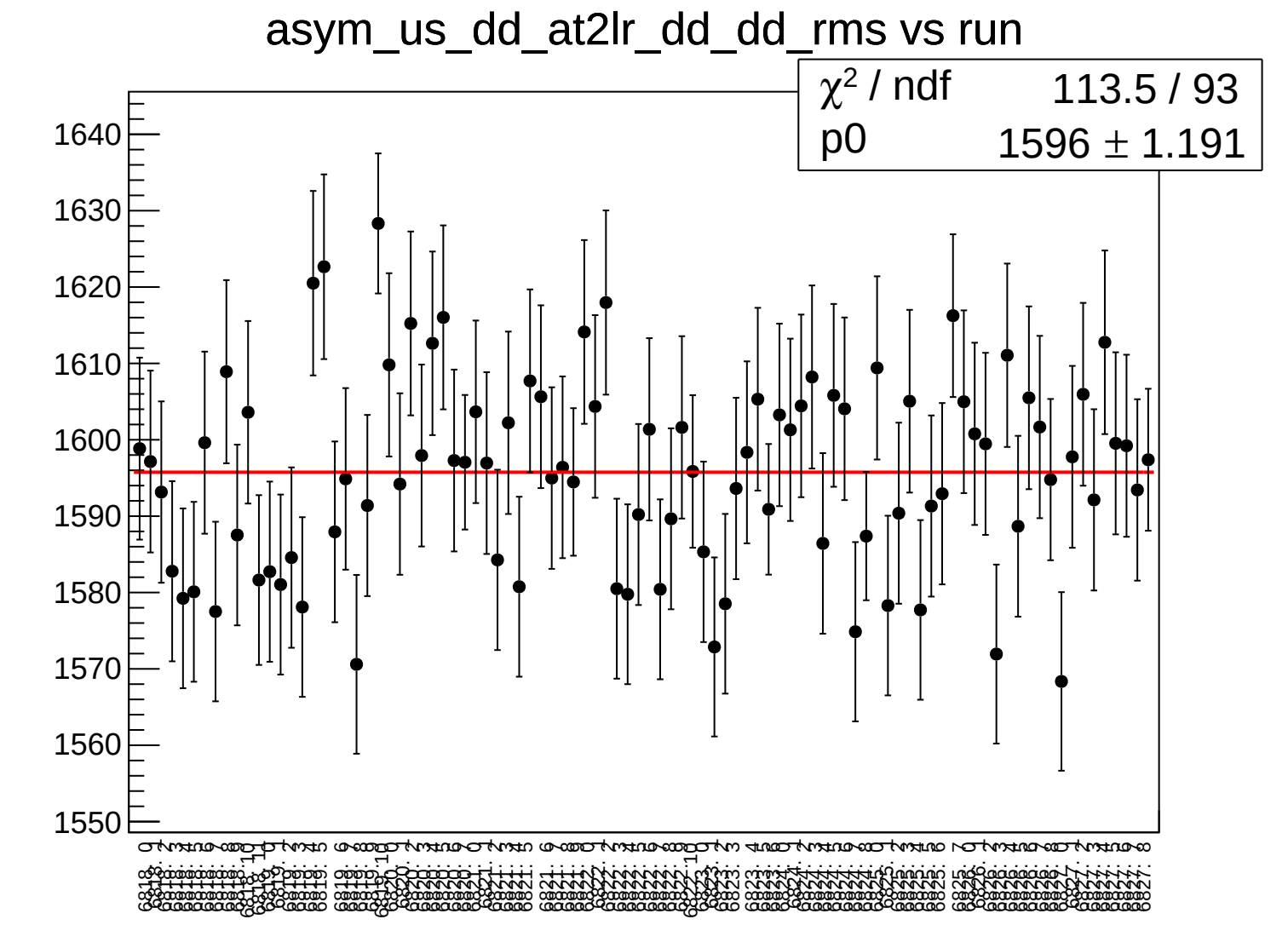

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 92.29 / 93
p0 211.3 ± 532.1
pull
Entries 94
Mean −990.9
Std Dev 0

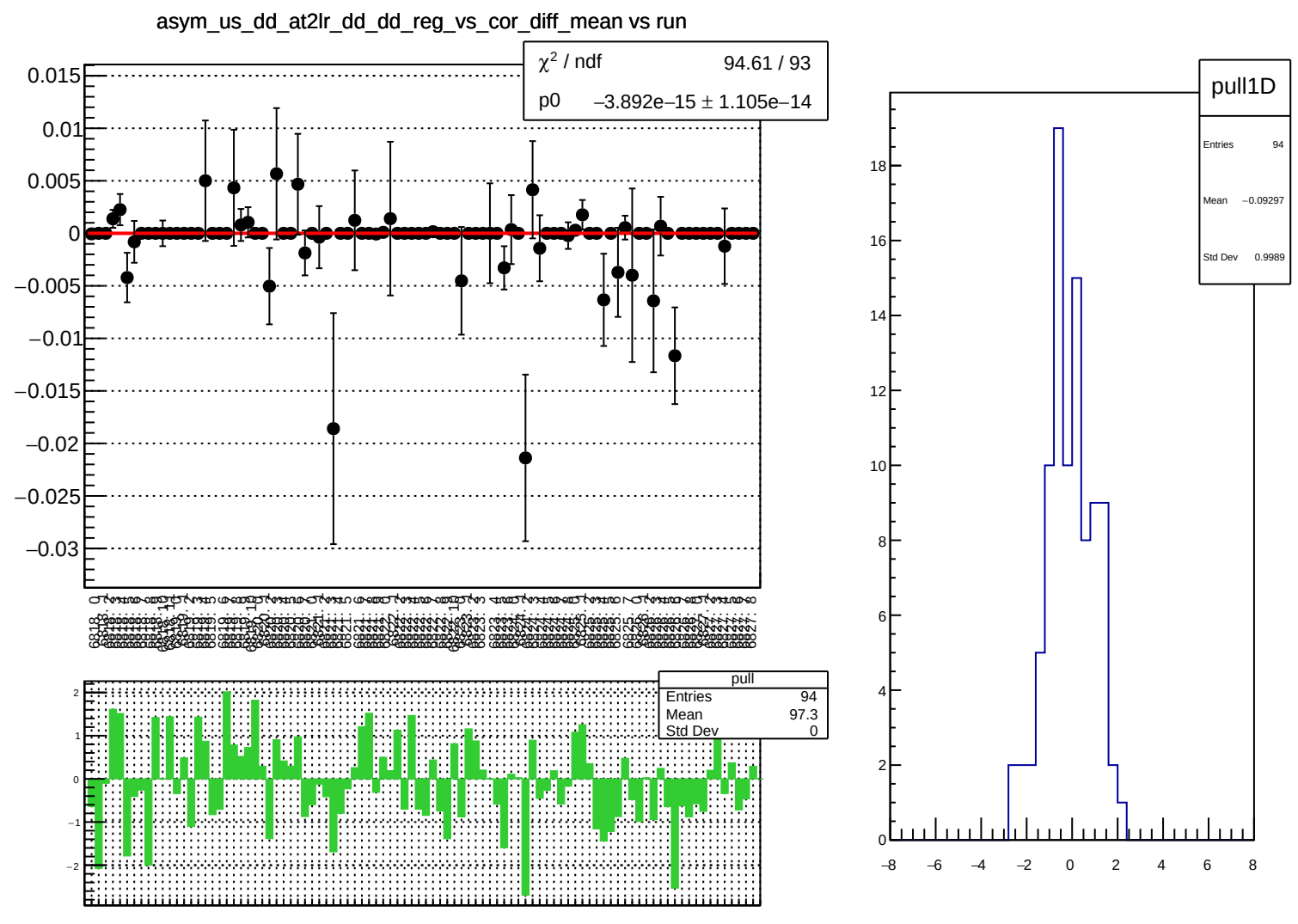

pull1D
Entries 94
Mean 0.002138
Std Dev 0.9908

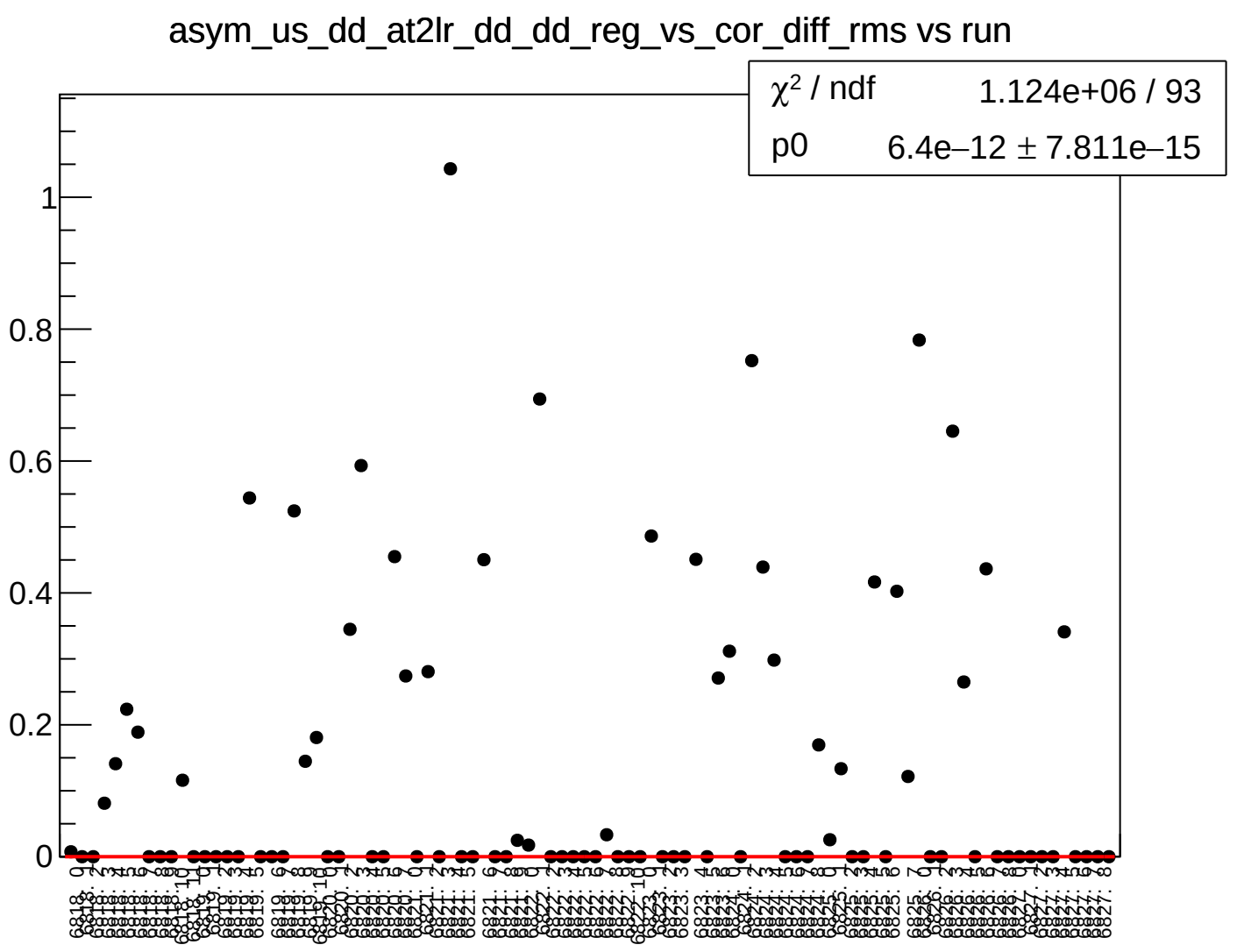

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4265 / 93
p0 503.5 ± 0.3763
650
600
550
500
450

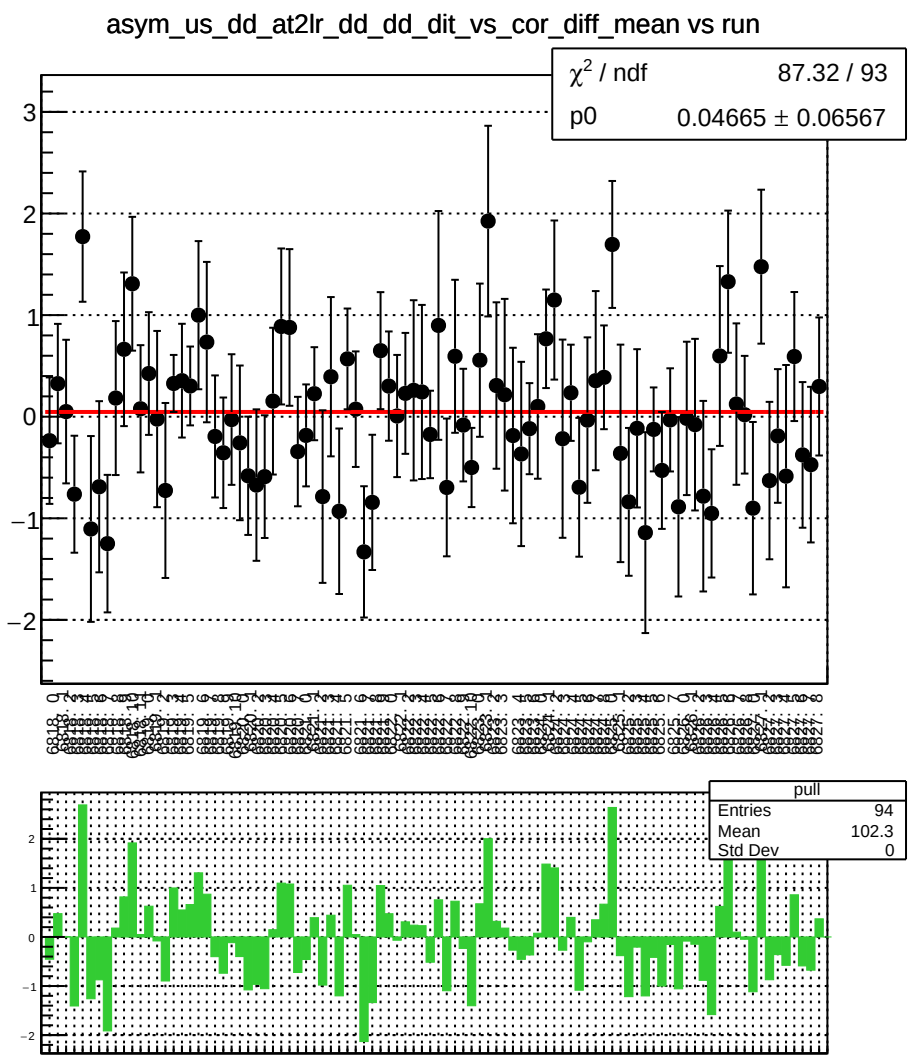

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 119.3 / 93
p0 −11.93 ± 1684
pull
Entries 94
Mean −57.69
Std Dev 0

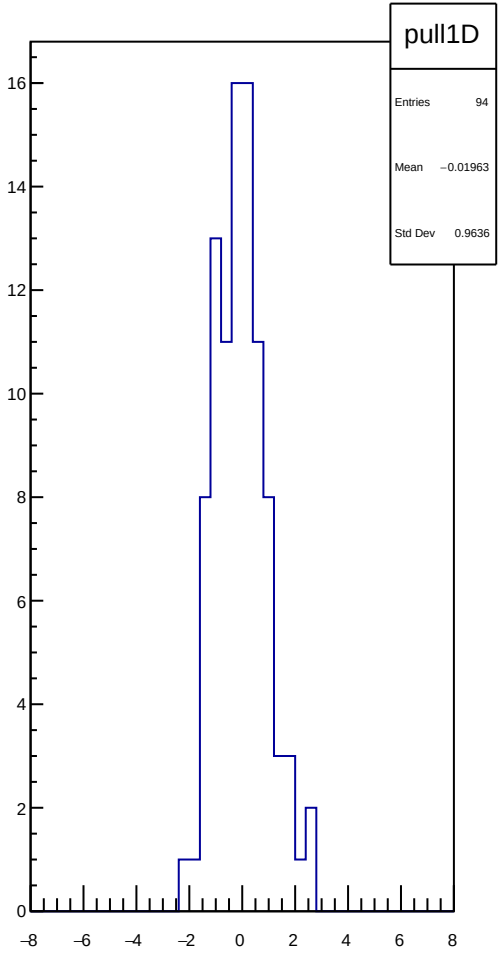

pull1D
Entries 94
Mean −0.009126
Std Dev 1.126

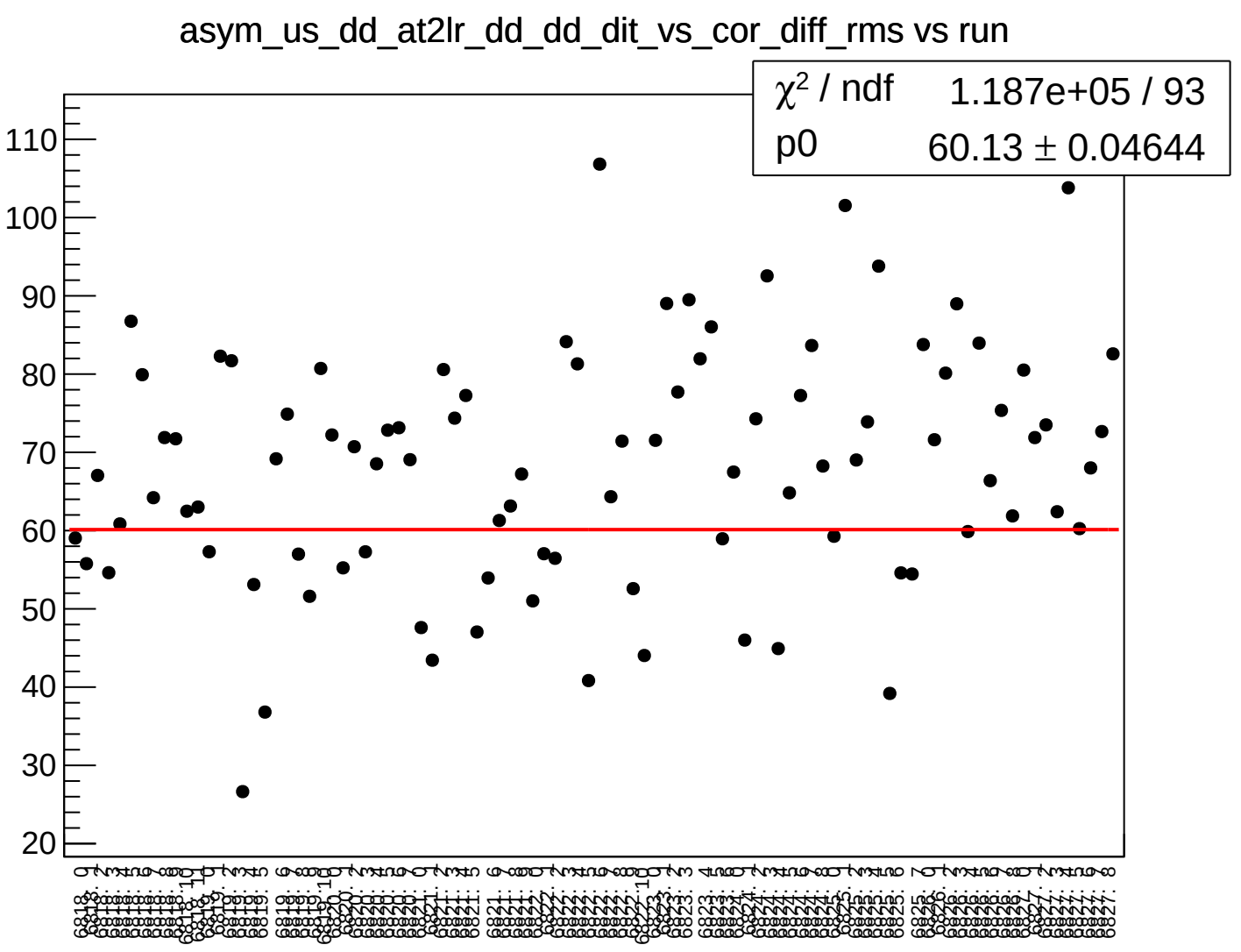

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 113.5 / 93
p0 1596 ± 1.191
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550

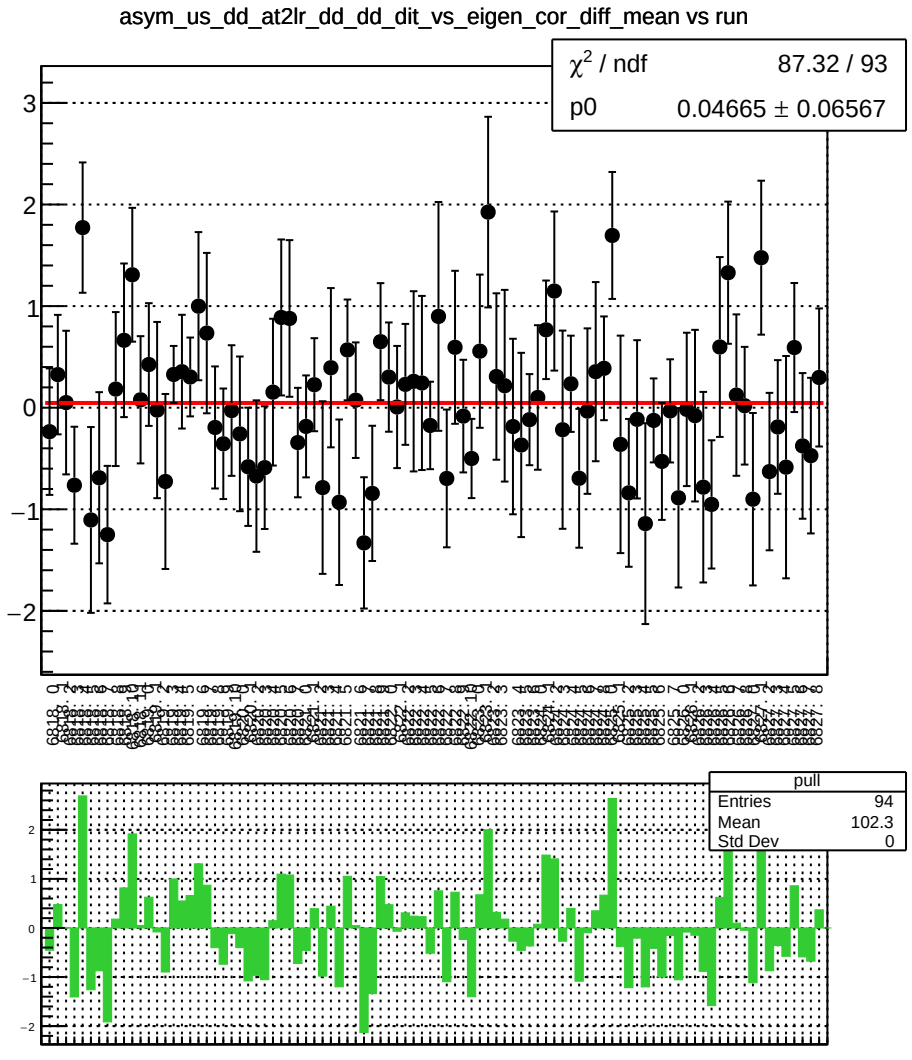

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.61 / 93
p0 −3.892e−15 ± 1.105e−14
pull
Entries 94
Mean 97.3
Std Dev 0
pull1D
Entries 94
Mean −0.09297
Std Dev 0.9989

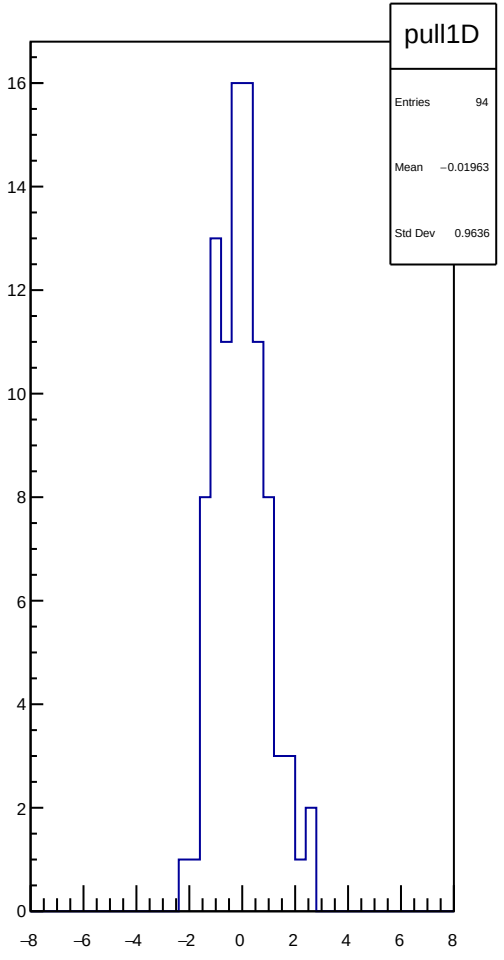

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.124e+06 / 93
p0 6.4e−12 ± 7.811e−15
1
0.8
0.6
0.4
0.2
0

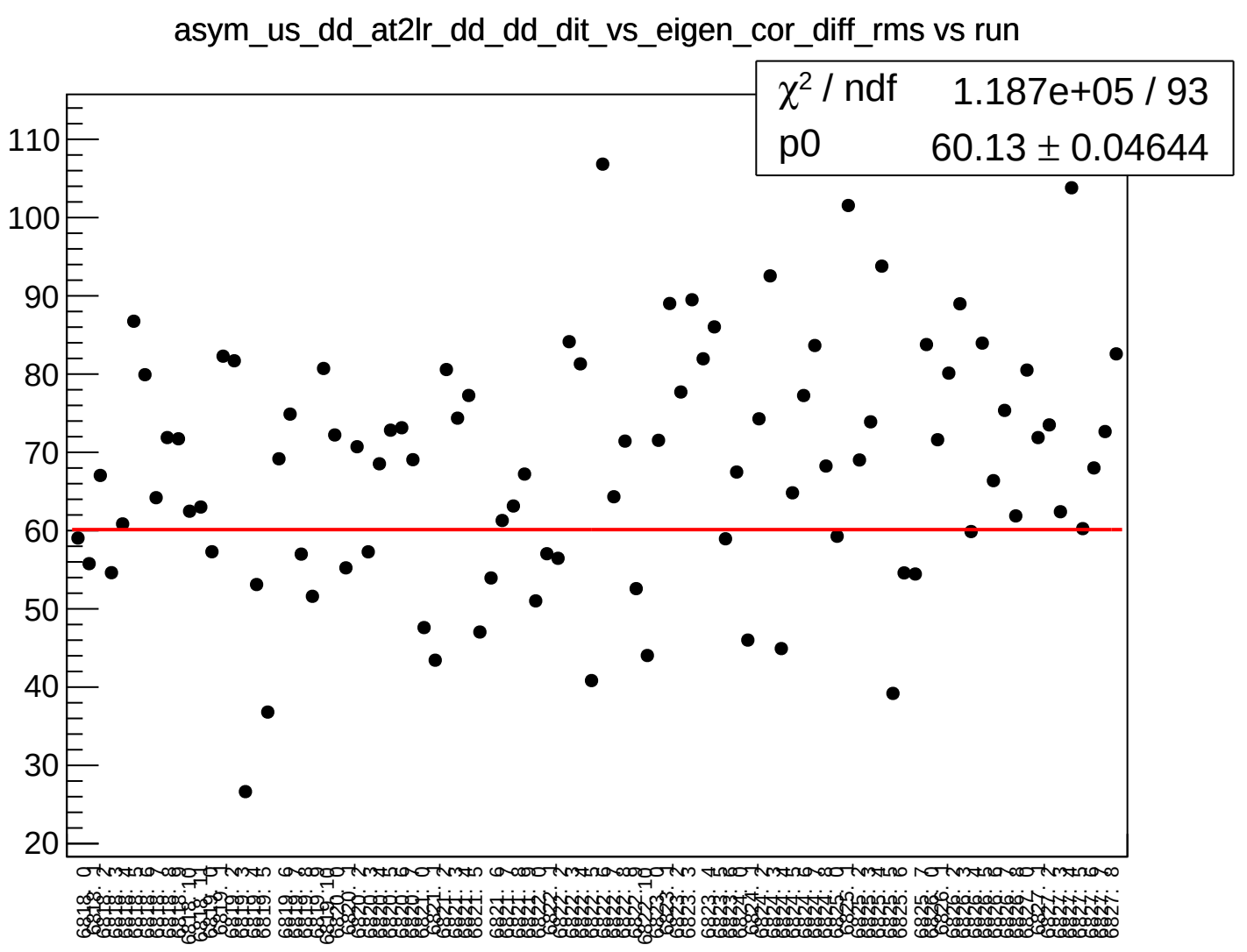

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.04665 ± 0.06567
pull
Entries 94
Mean 102.3
Std Dev 0

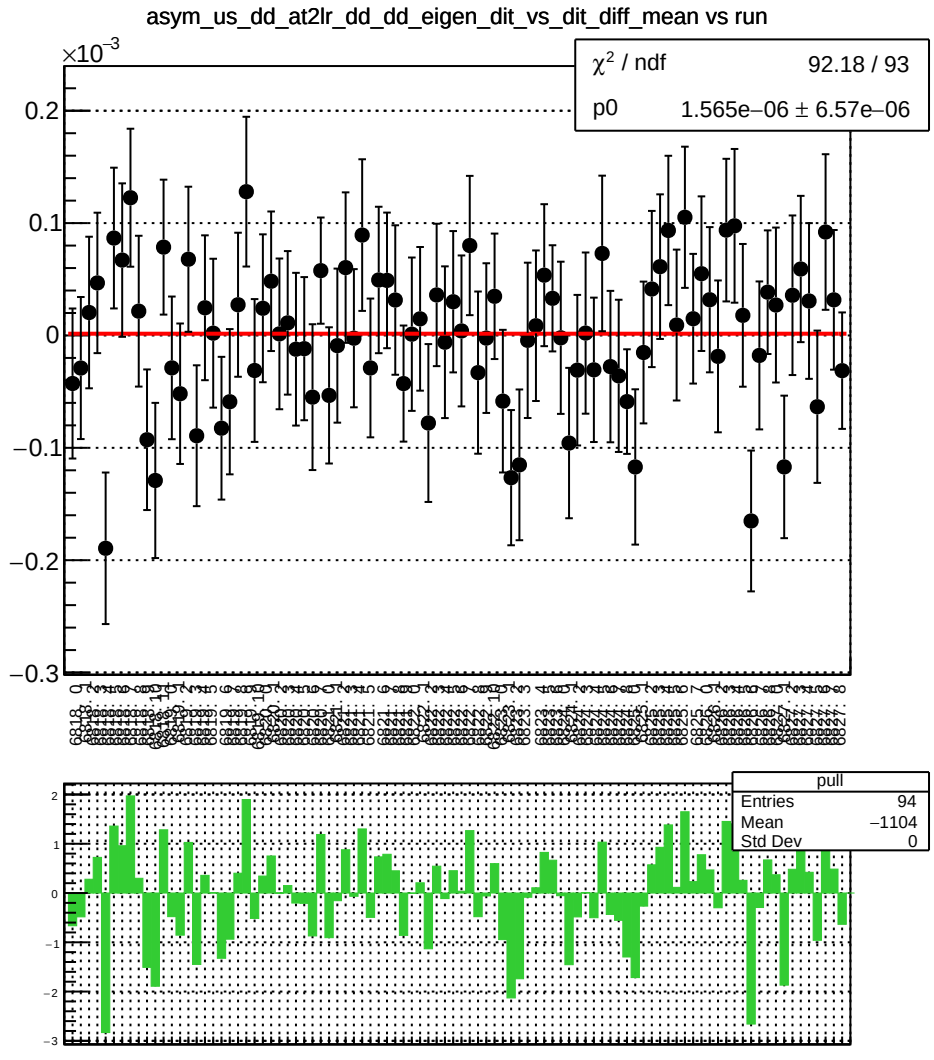

pull1D
Entries 94
Mean −0.01963
Std Dev 0.9636

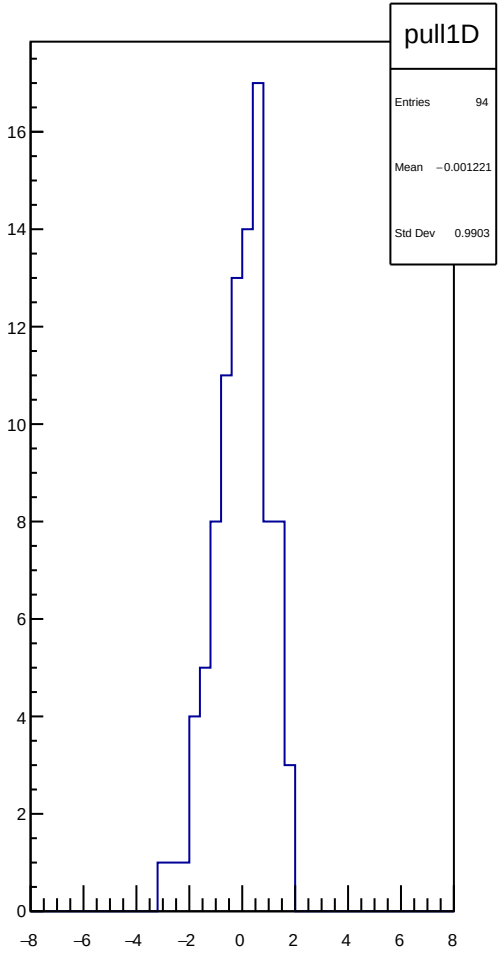

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 93
p0 60.13 ± 0.04644
110
100
90
80
70
60
50
40
30
20

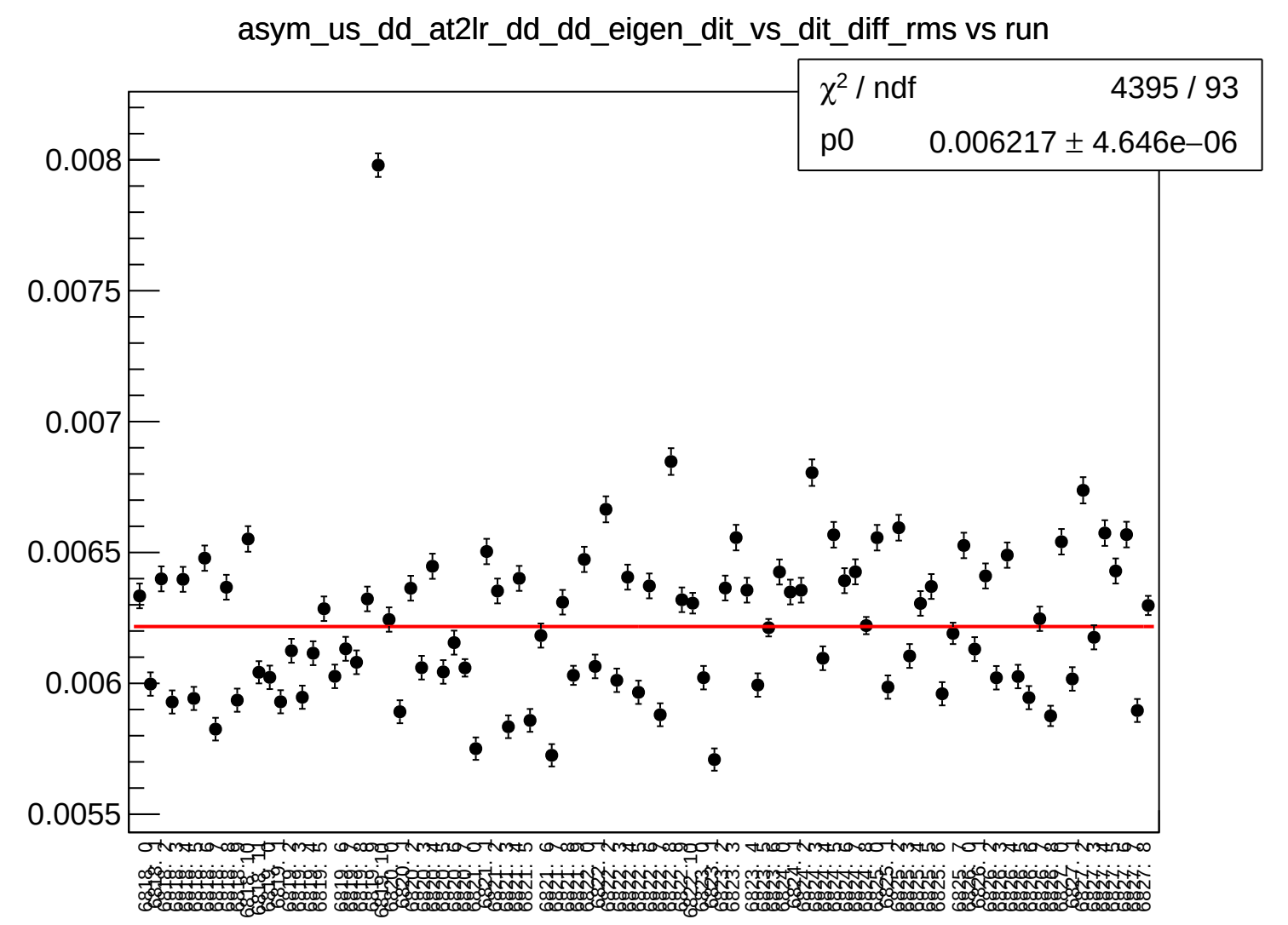

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.04665 ± 0.06567
pull
Entries 94
Mean 102.3
Std Dev 0

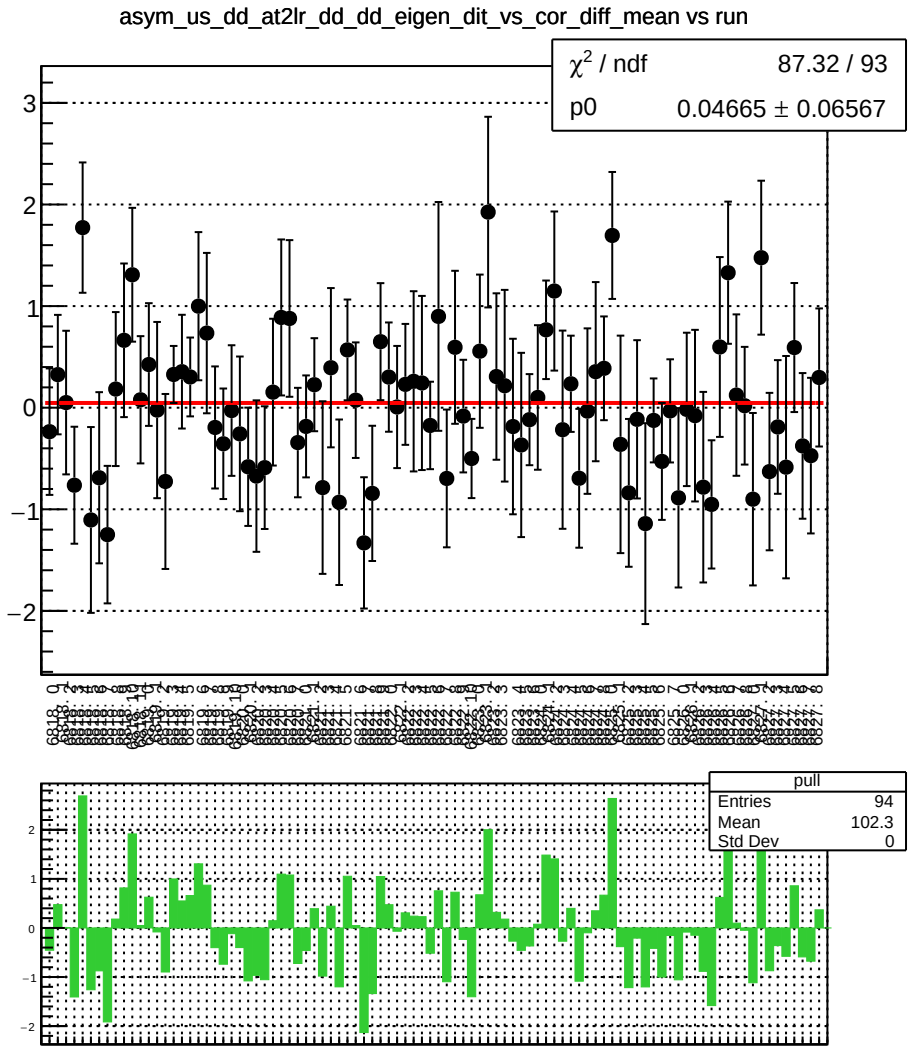

pull1D
Entries 94
Mean −0.01963
Std Dev 0.9636

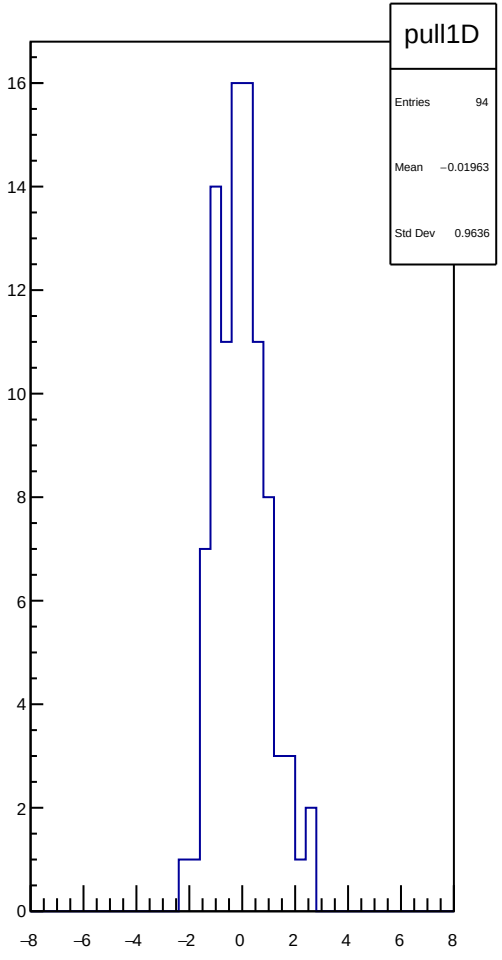

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 93
p0 60.13 ± 0.04644
110
100
90
80
70
60
50
40
30
20

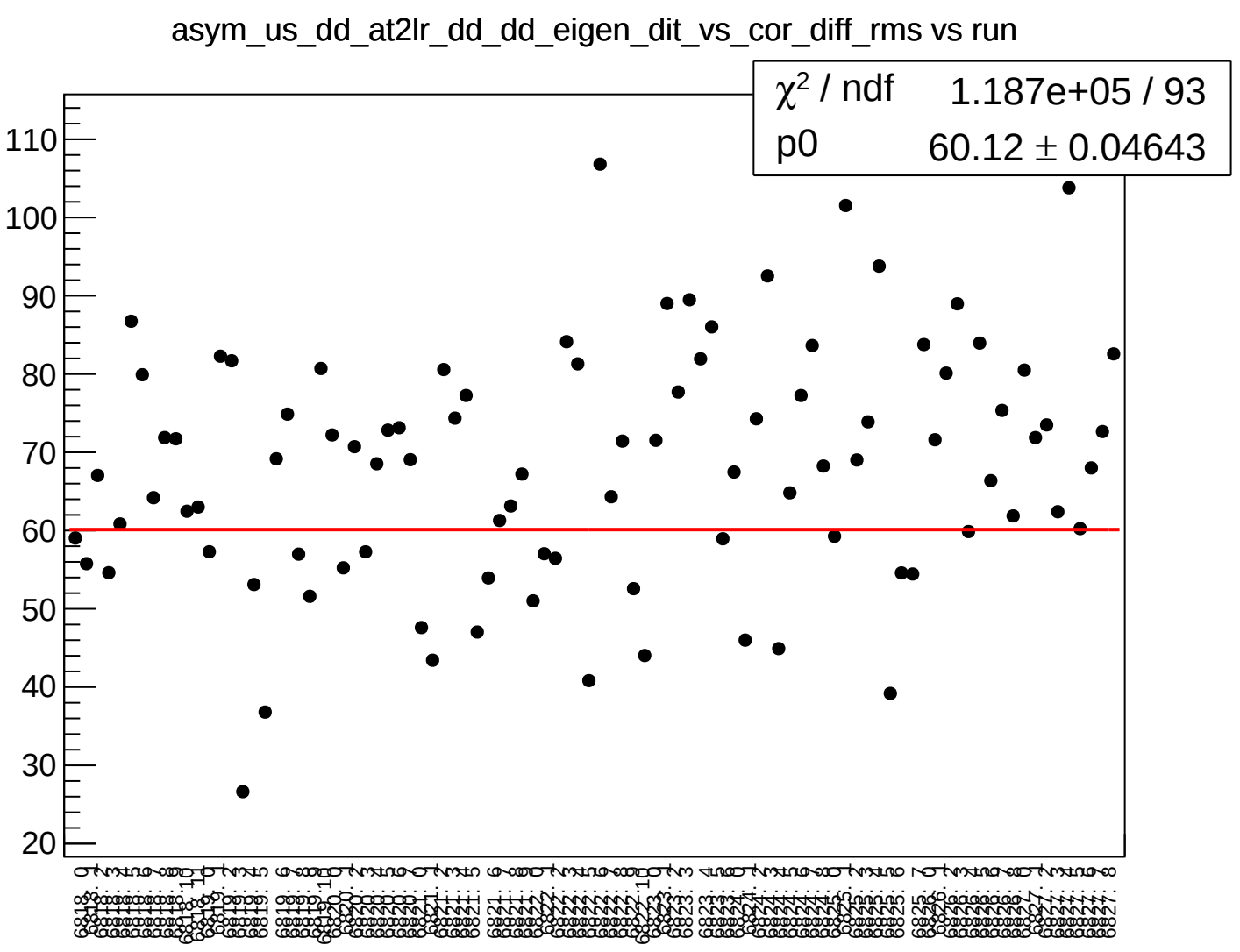

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.18 / 93
p0 1.565e−06 ± 6.57e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 94
Mean −1104
Std Dev 0
2
1
0
−1
−2
−3

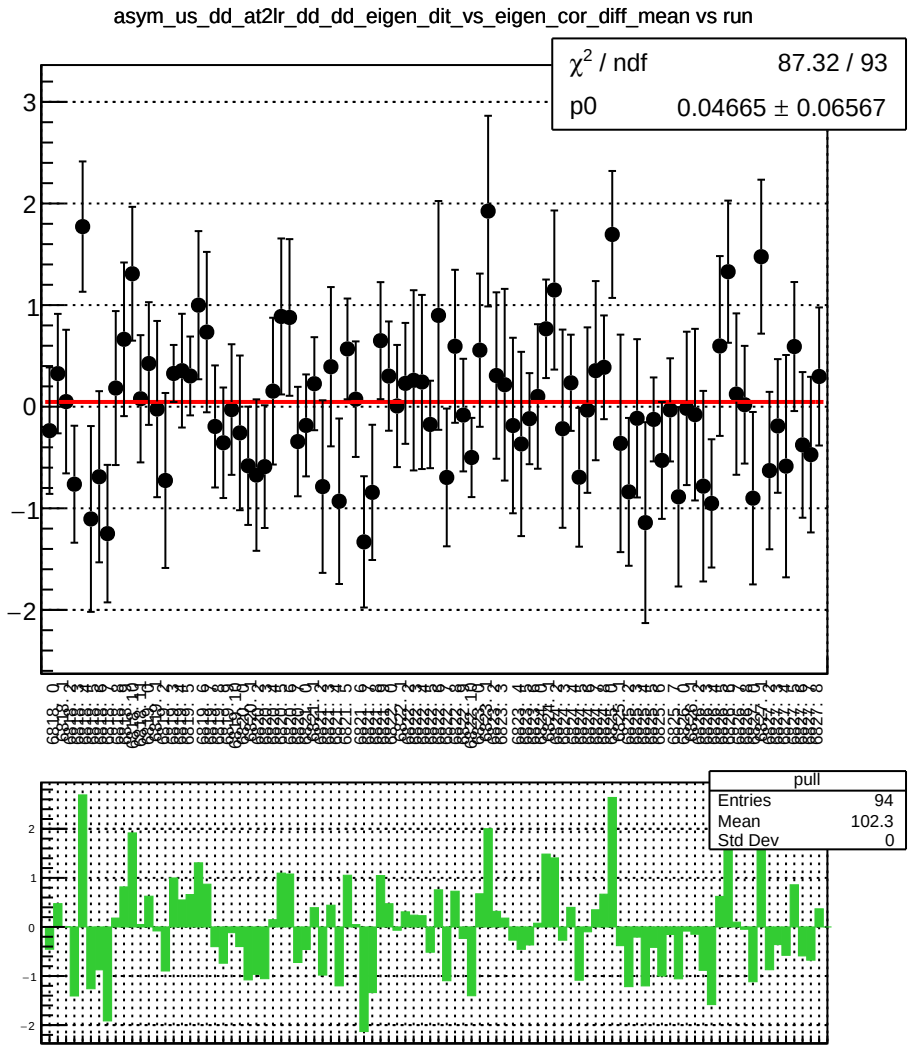

pull1D
Entries 94
Mean −0.001221
Std Dev 0.9903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

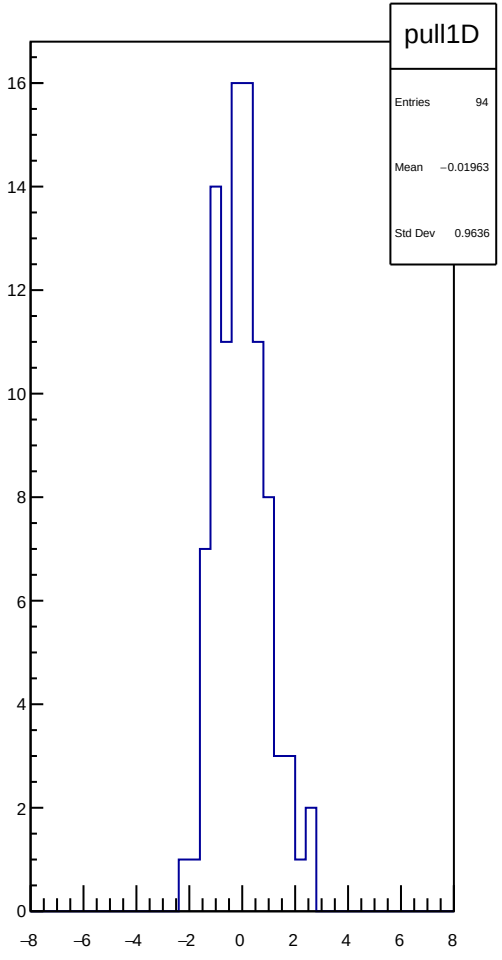

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4395 / 93
p0 0.006217 ± 4.646e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055

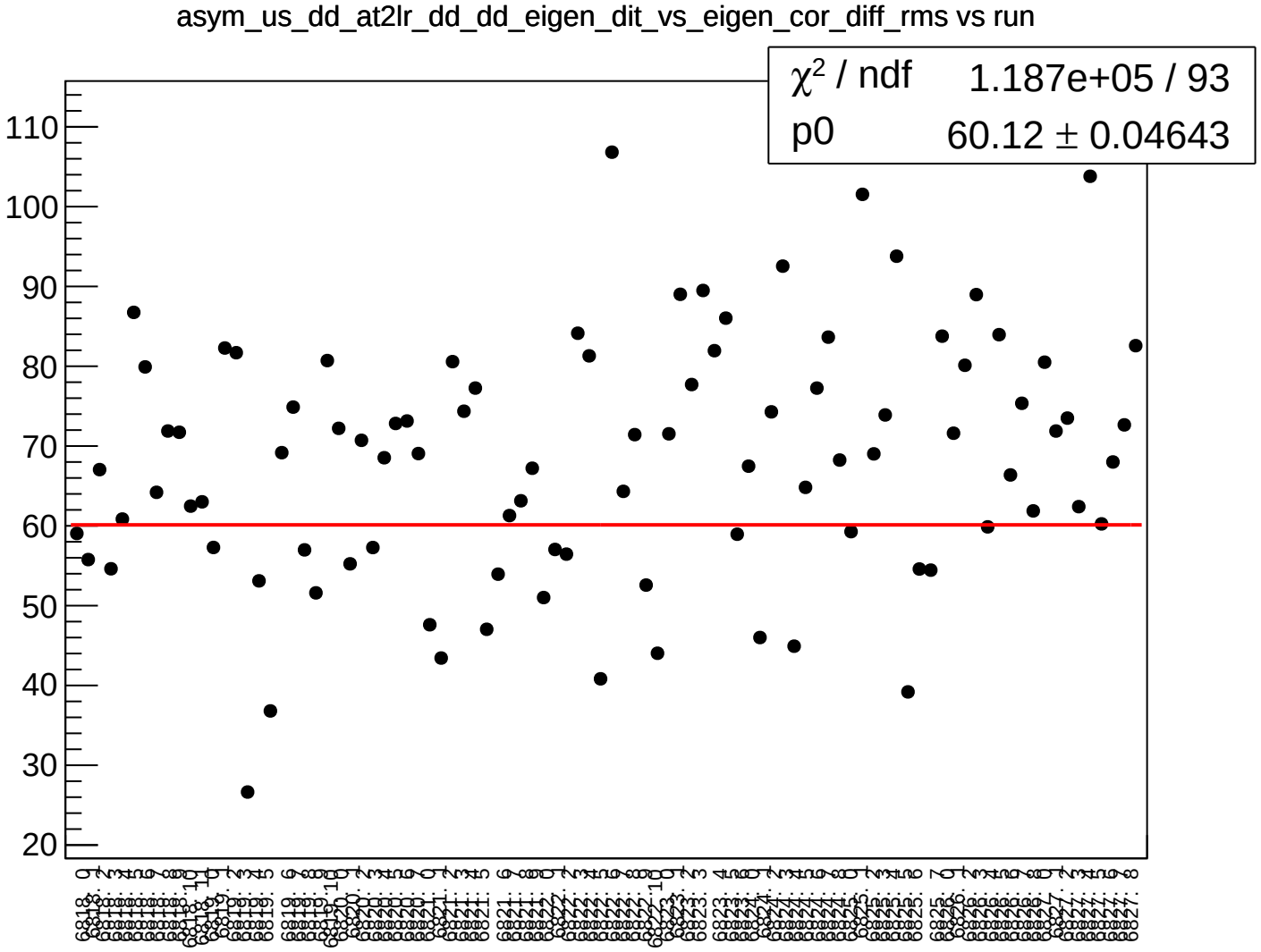

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.04665 ± 0.06567
pull
Entries 94
Mean 102.3
Std Dev 0

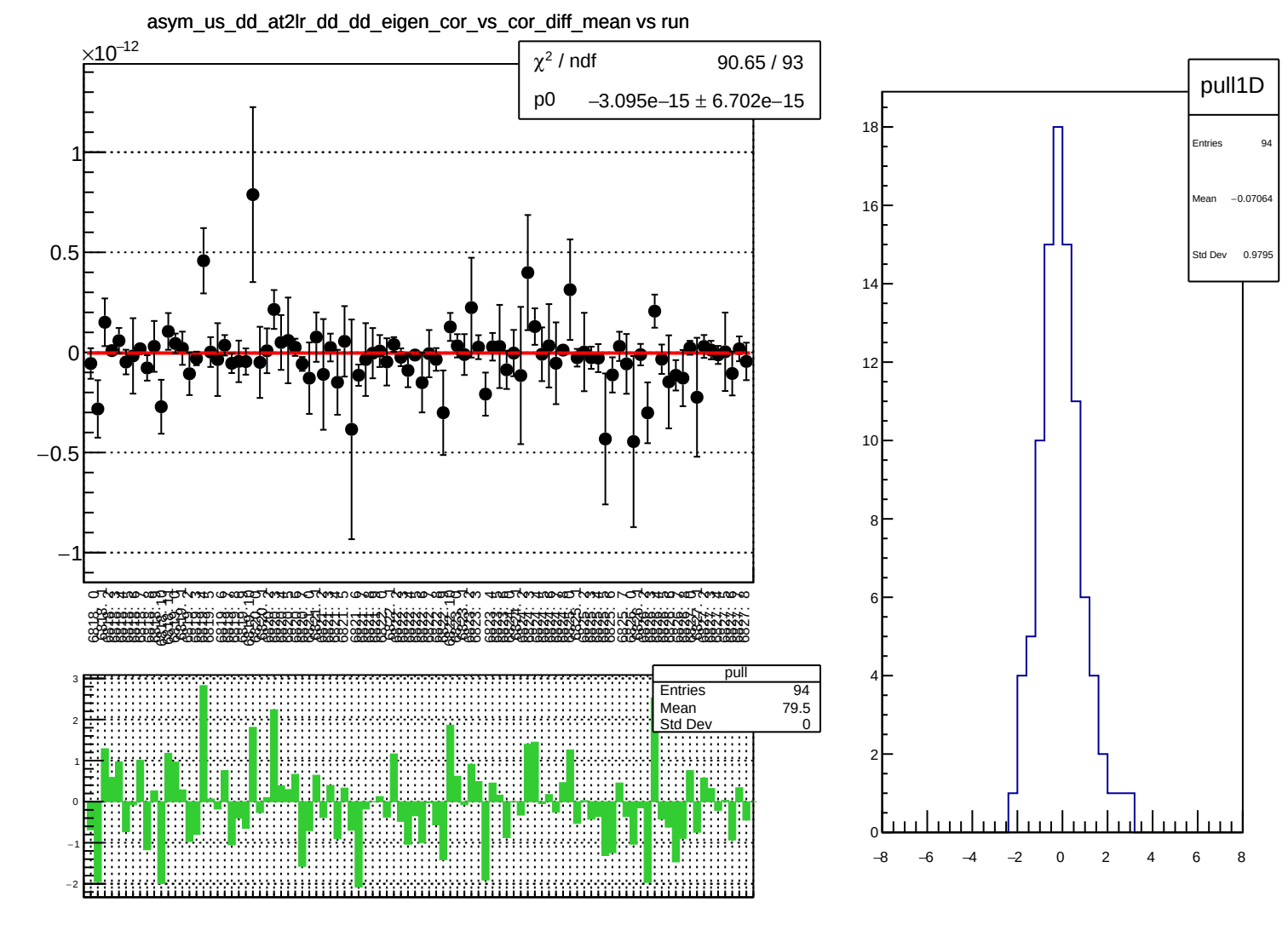

pull1D
Entries 94
Mean −0.01963
Std Dev 0.9636

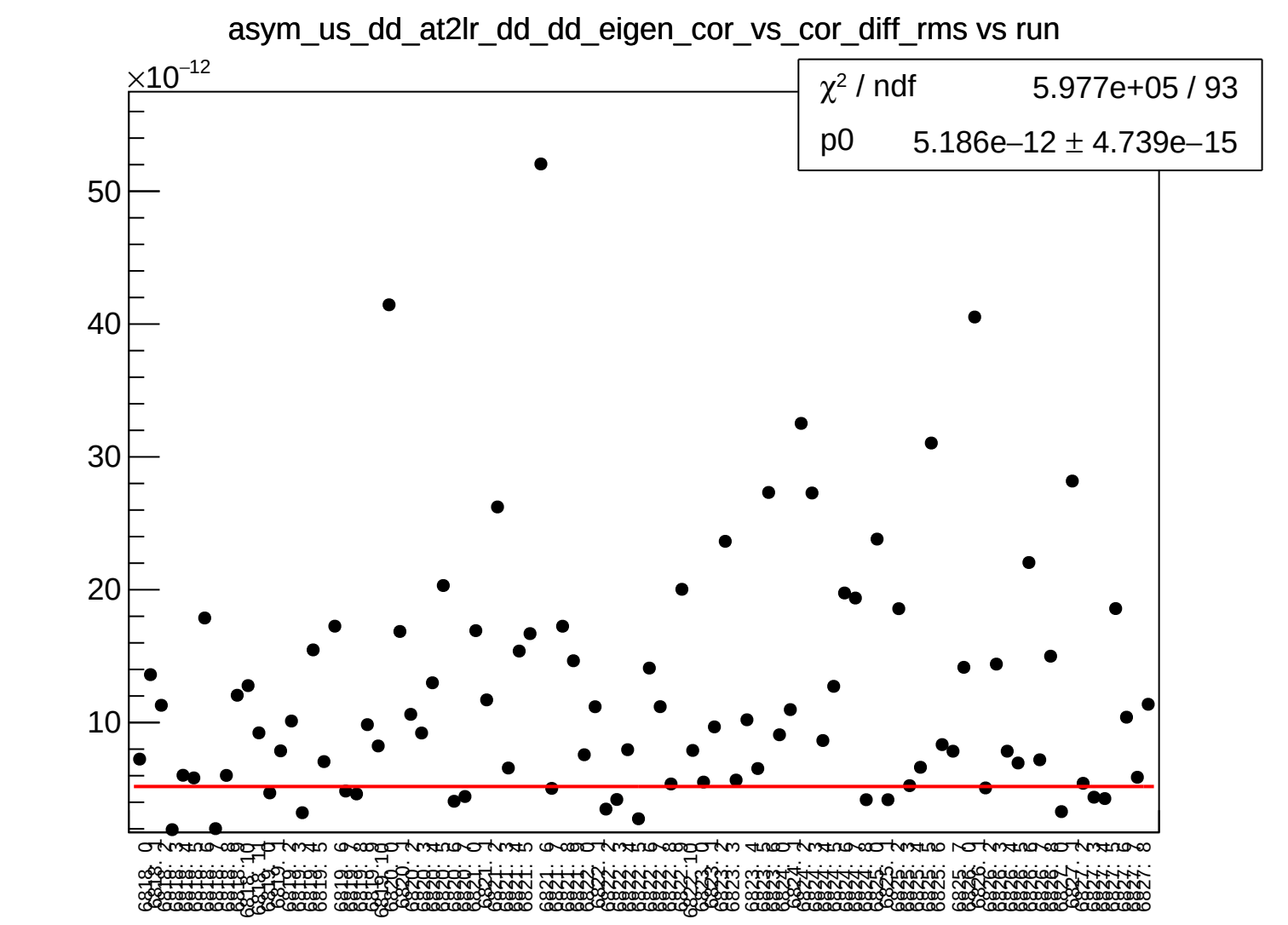

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 93
p0 60.12 ± 0.04643
110
100
90
80
70
60
50
40
30
20

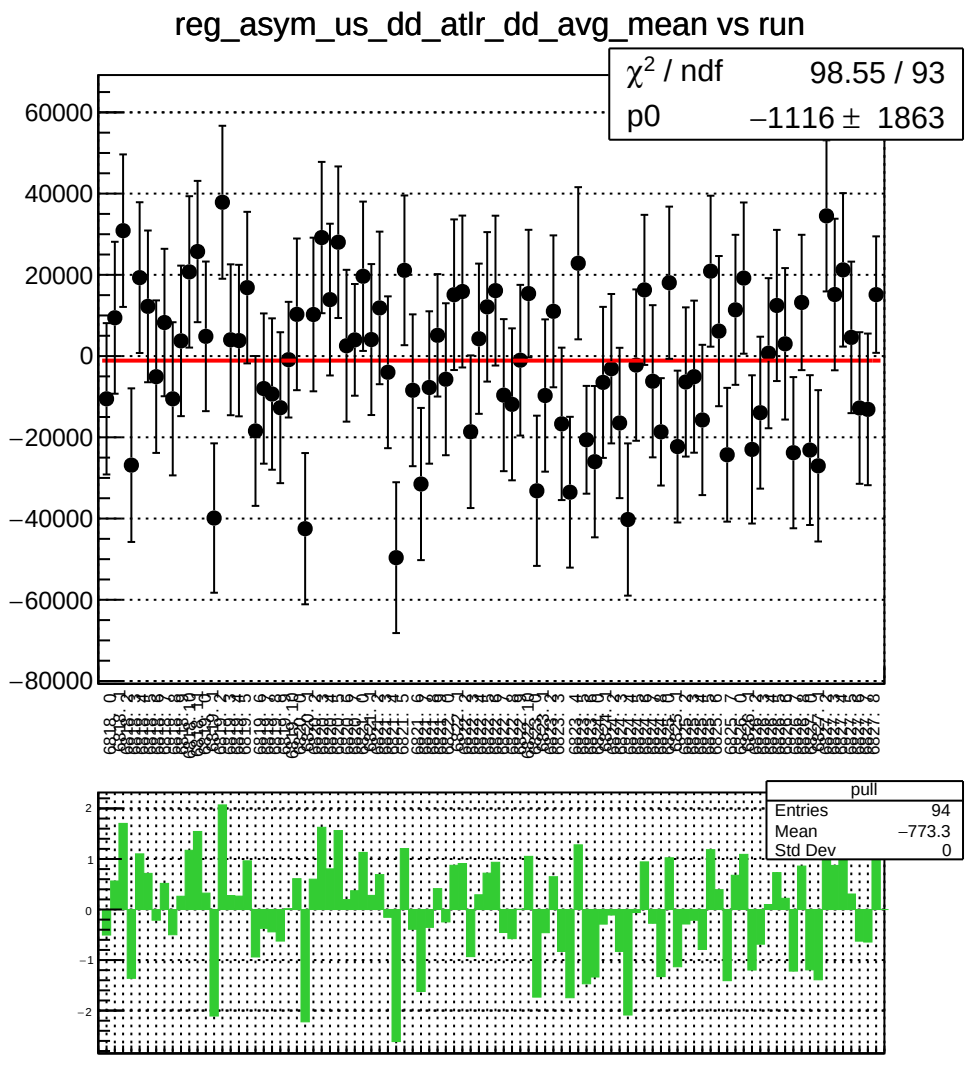

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.32 / 93
p0 0.04665 ± 0.06567
pull
Entries 94
Mean 102.3
Std Dev 0

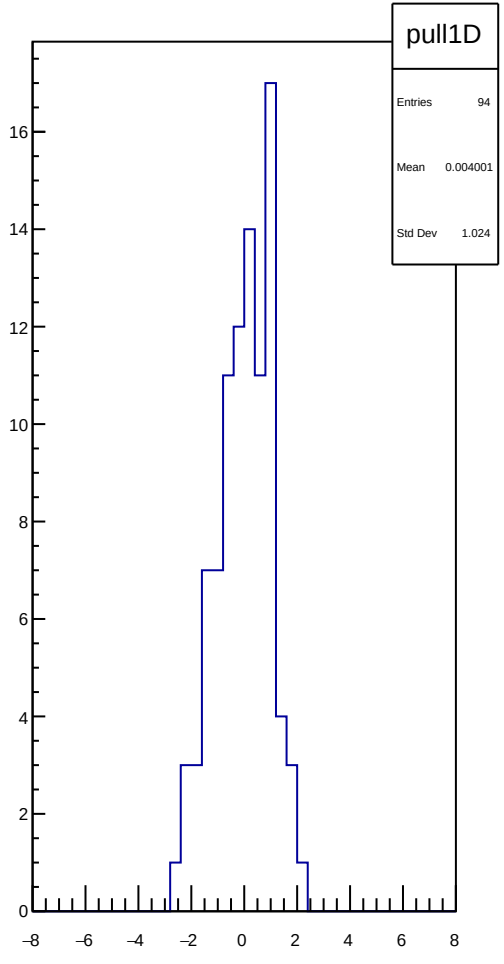

pull1D
Entries 94
Mean −0.01963
Std Dev 0.9636

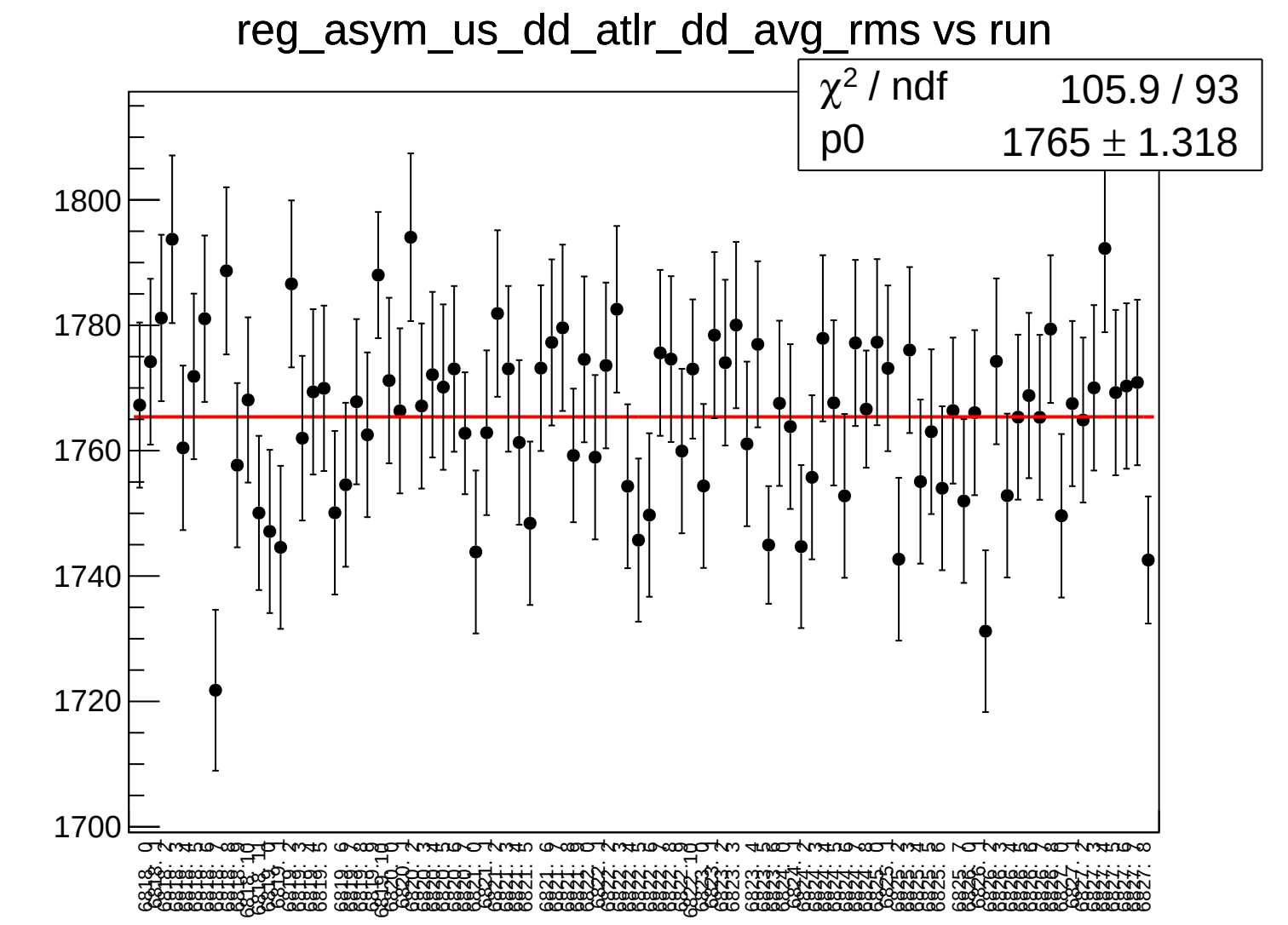

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.187e+05 / 93
p0 60.12 ± 0.04643
110
100
90
80
70
60
50
40
30
20

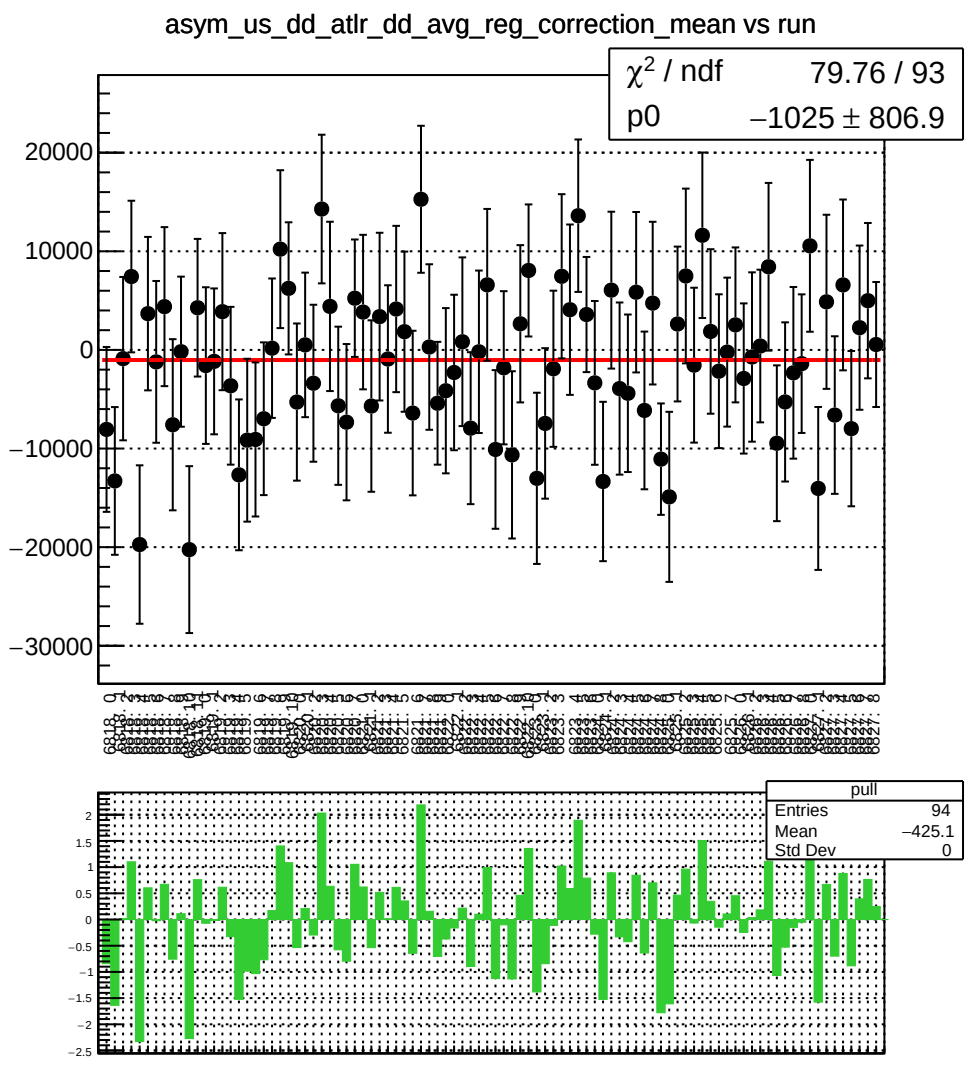

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.65 / 93
p0 −3.095e−15 ± 6.702e−15
pull
Entries 94
Mean 79.5
Std Dev 0
pull1D
Entries 94
Mean −0.07064
Std Dev 0.9795

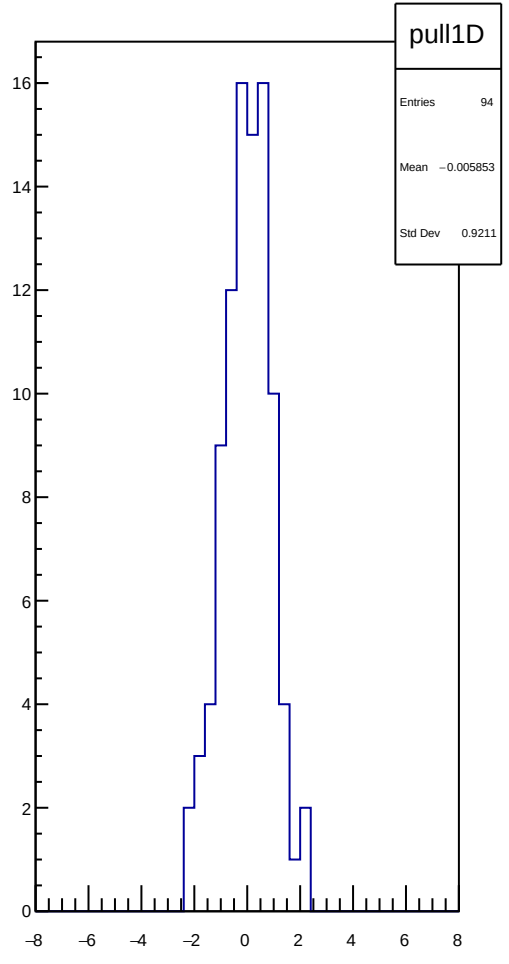

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.977e+05 / 93
p0 5.186e−12 ± 4.739e−15
50
40
30
20
10

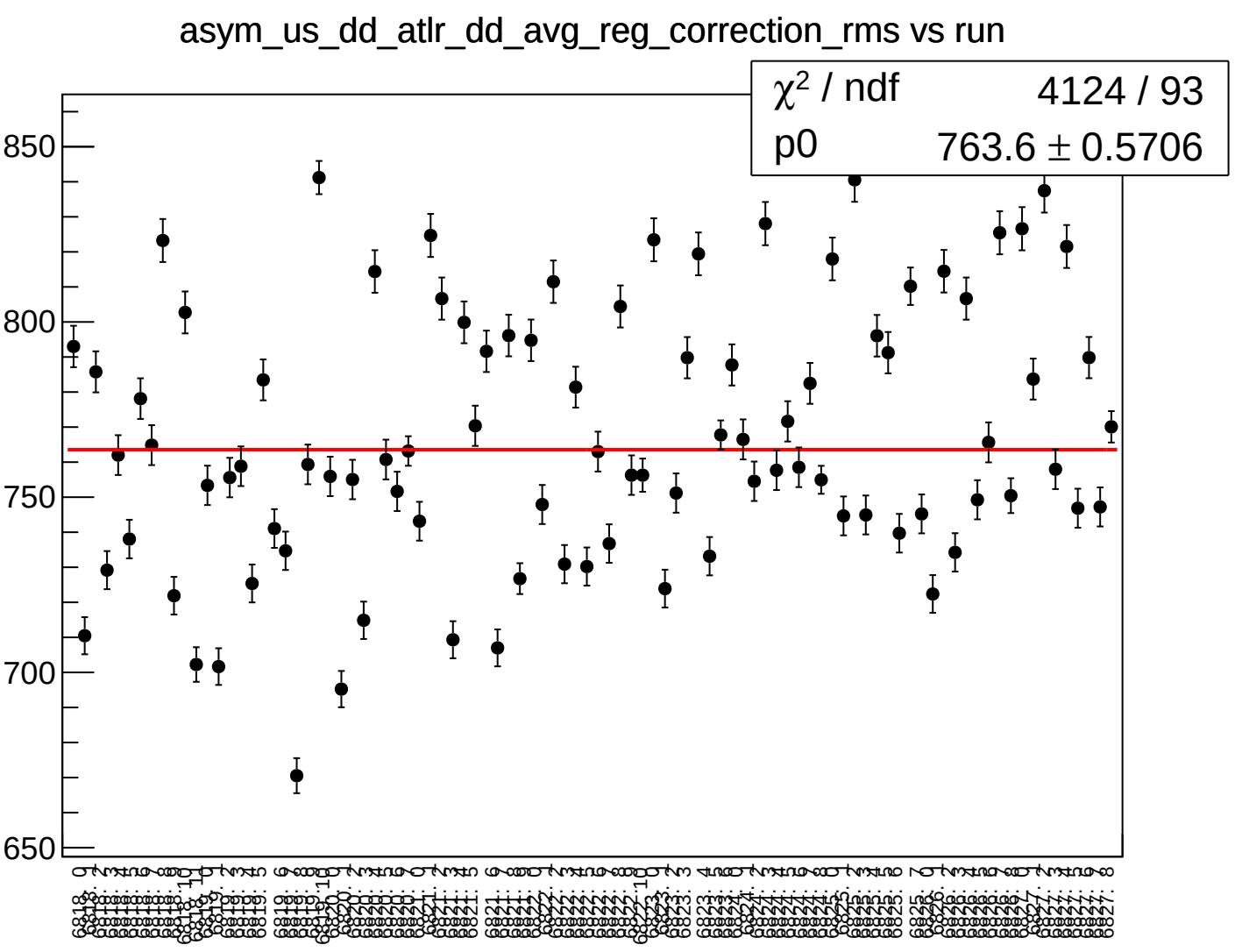

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.55 / 93
p0 −1116 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −773.3
Std Dev 0
2
1
0
−1
−2

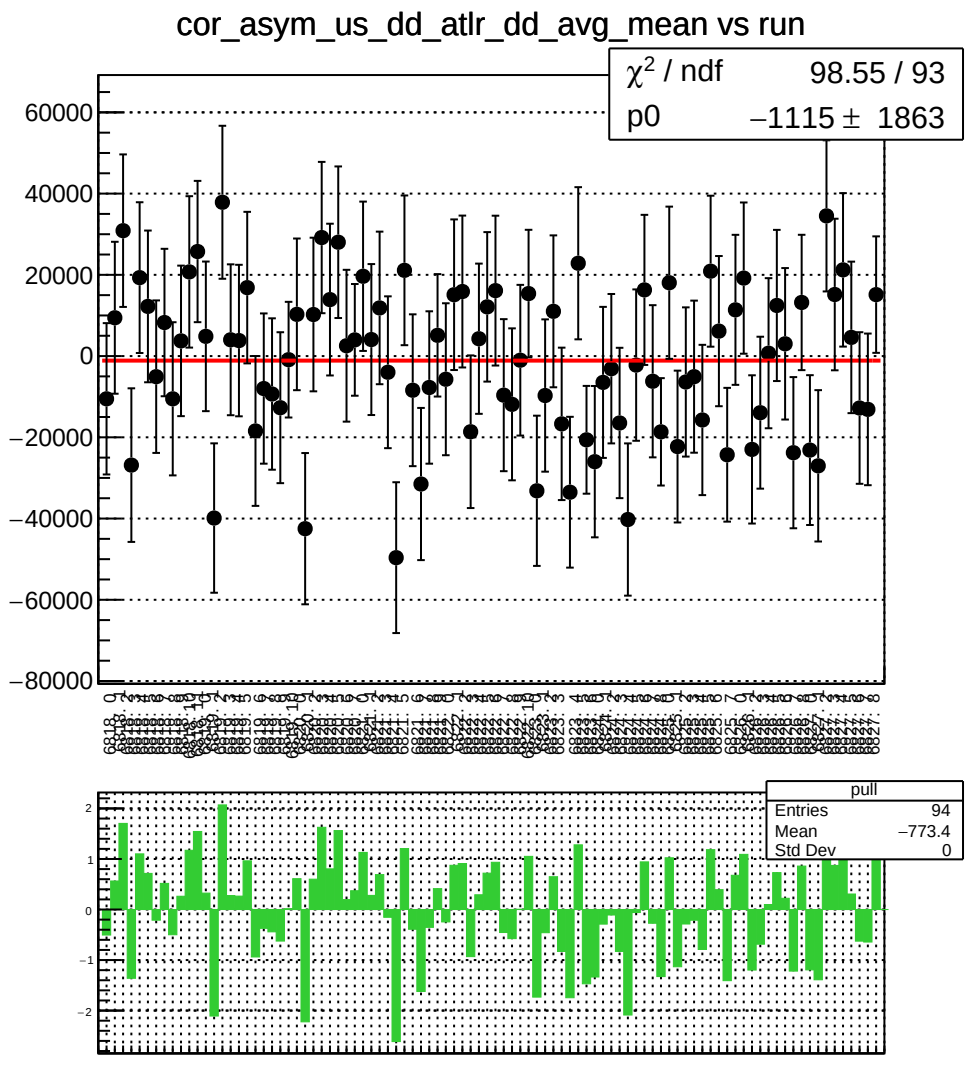

pull1D
Entries 94
Mean 0.004001
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

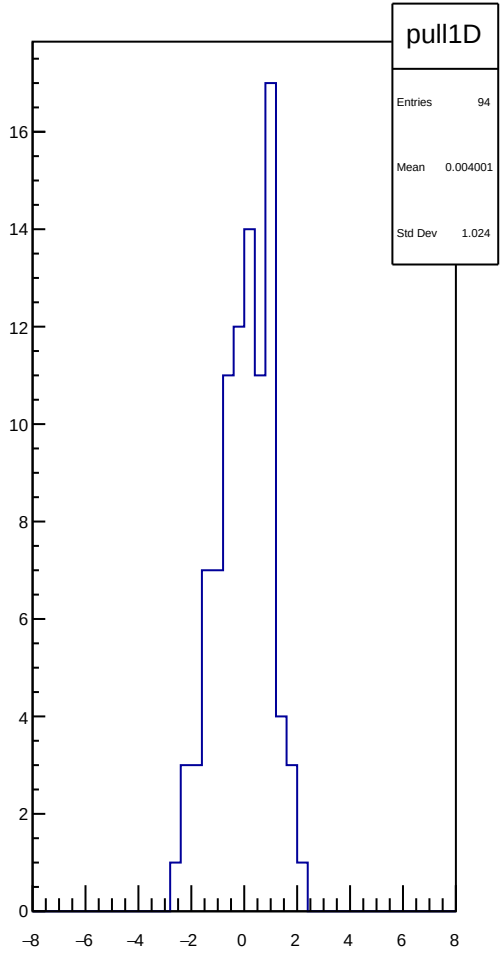

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 105.9 / 93
p0 1765 ± 1.318
1800
1780
1760
1740
1720
1700

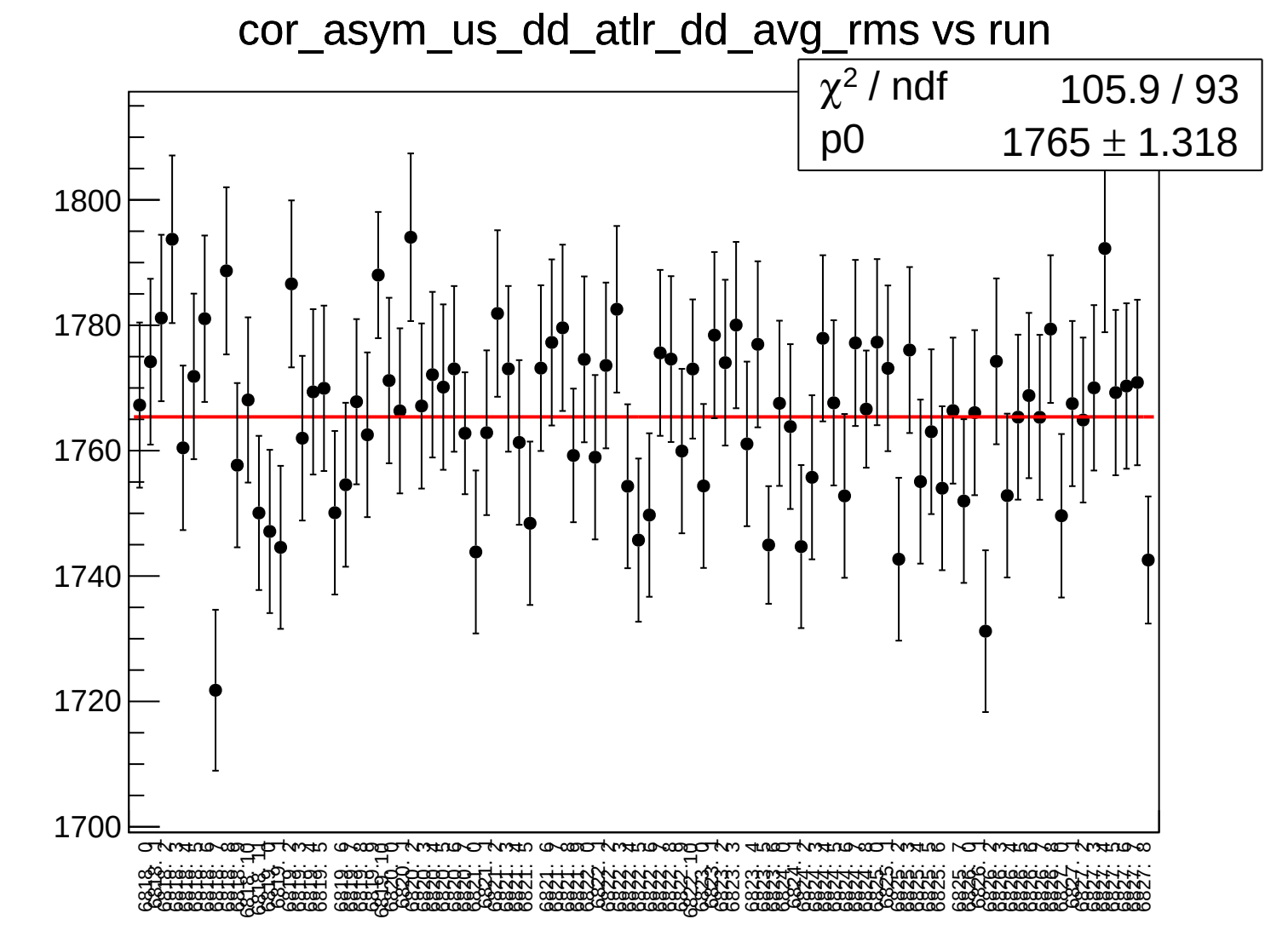

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 79.76 / 93
p0 −1025 ± 806.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −425.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

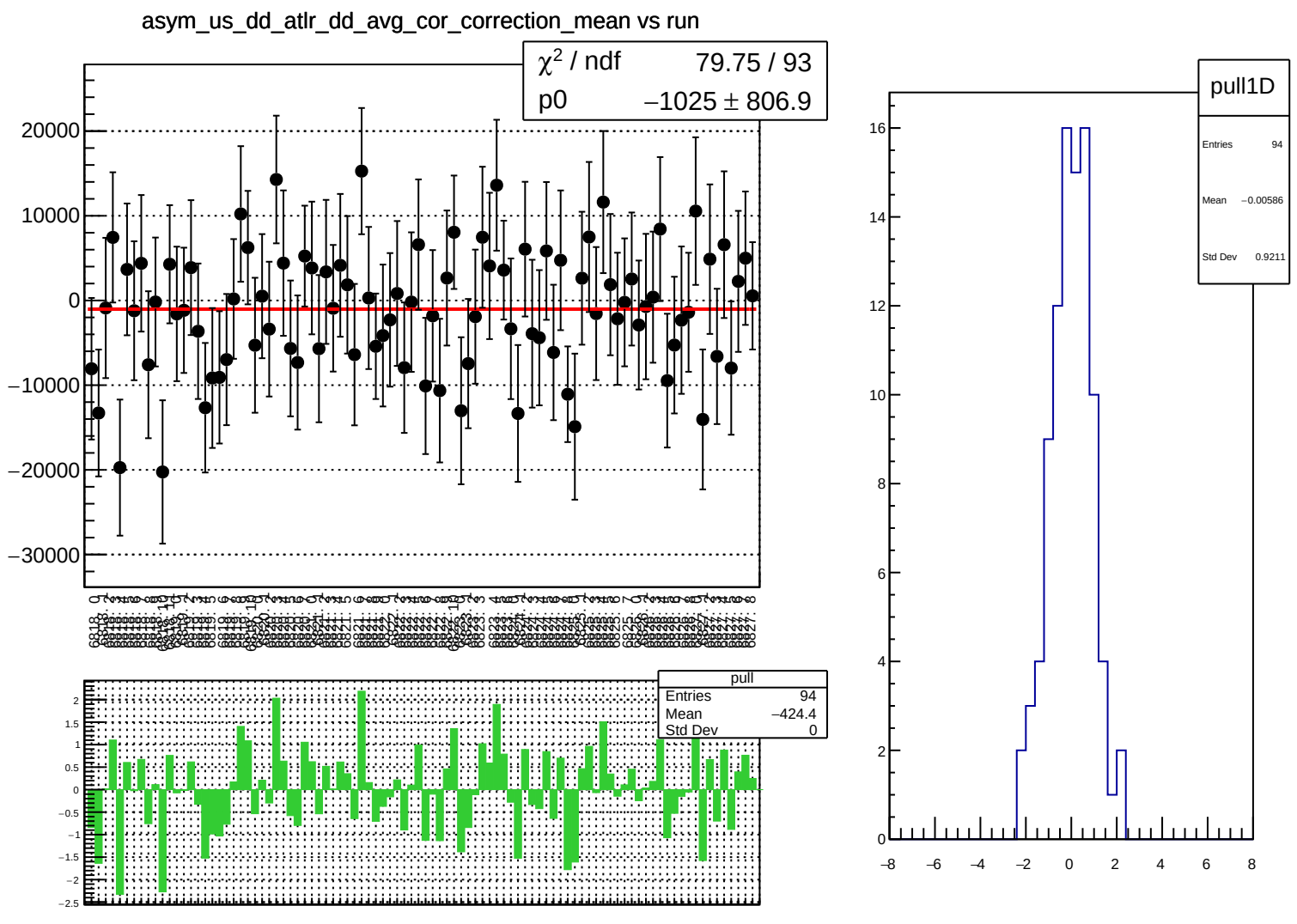

pull1D
Entries 94
Mean −0.005853
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

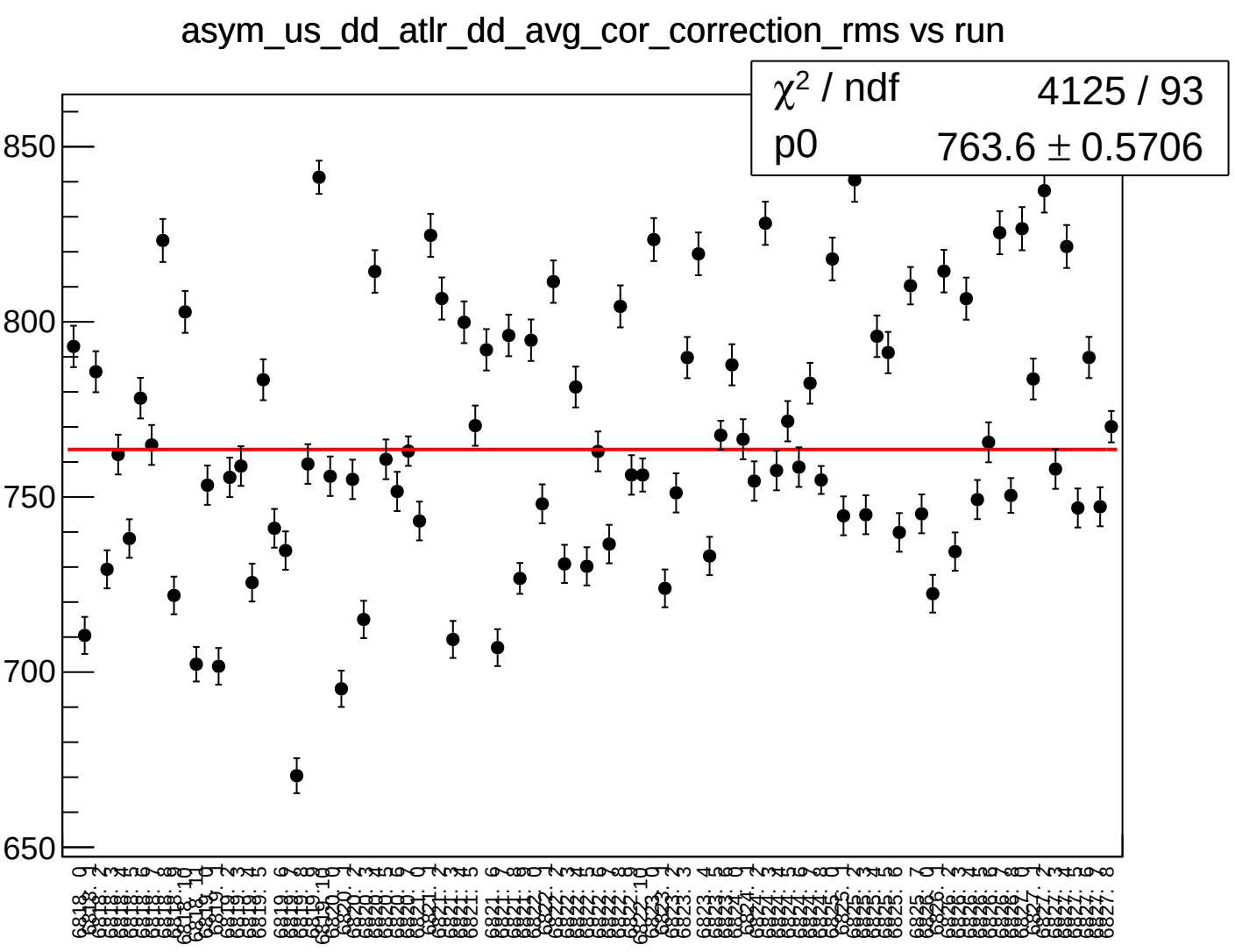

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4124 / 93
p0 763.6 ± 0.5706
850
800
750
700
650

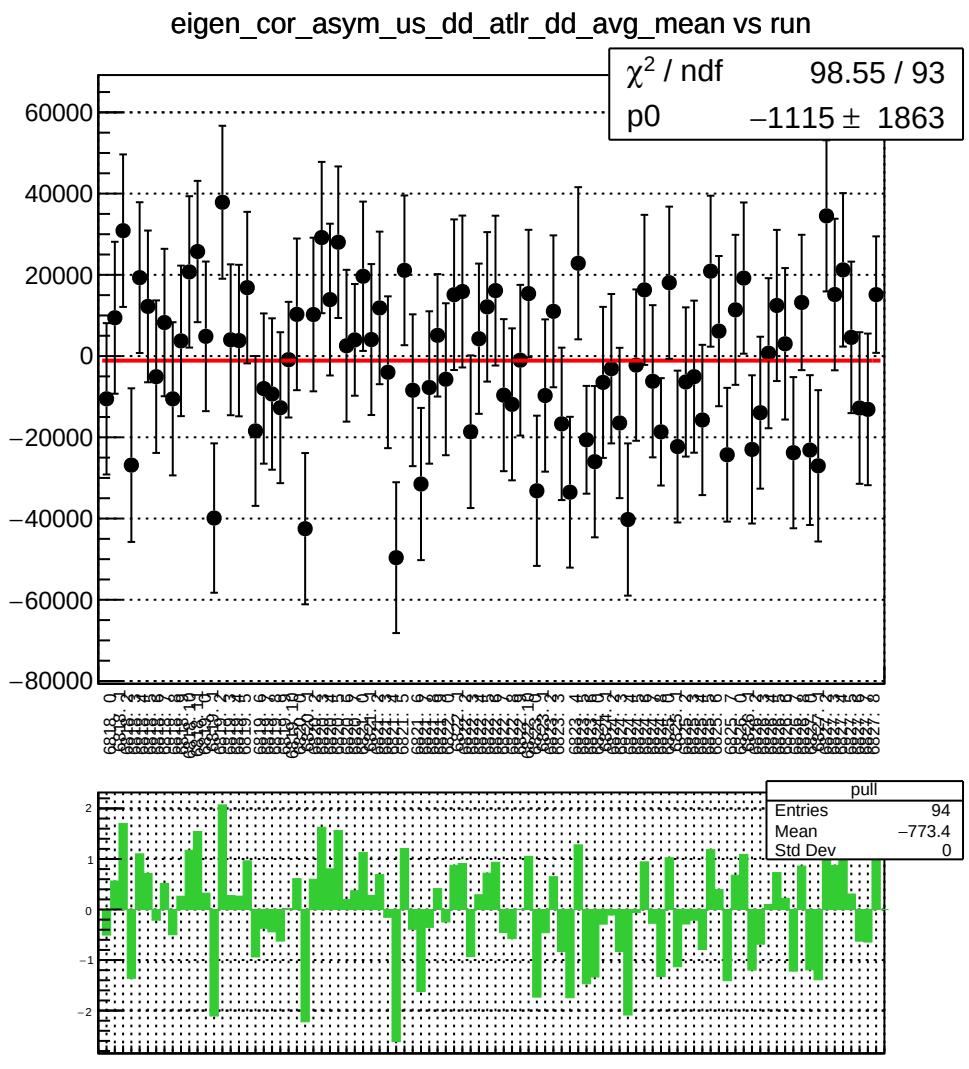

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.55 / 93
p0 −1115 ± 1863
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −773.4
Std Dev 0
2
1
0
−1
−2

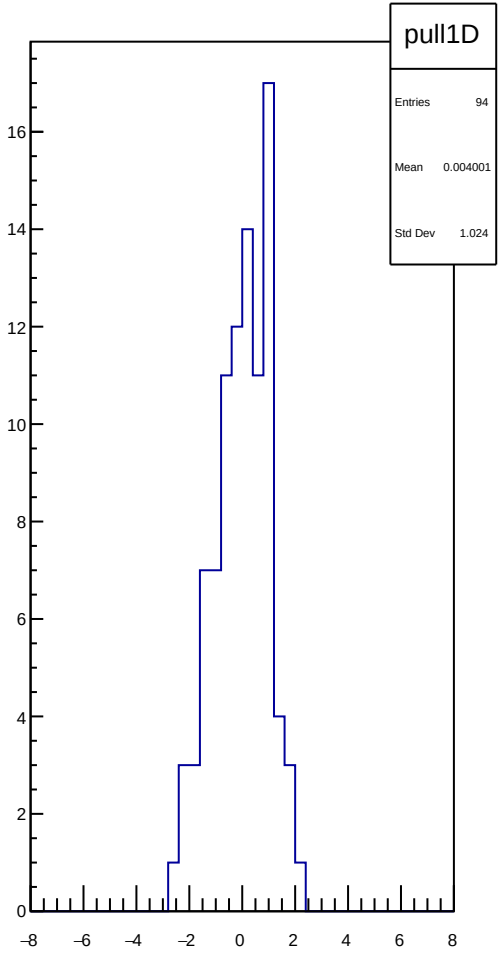

pull1D
Entries 94
Mean 0.004001
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

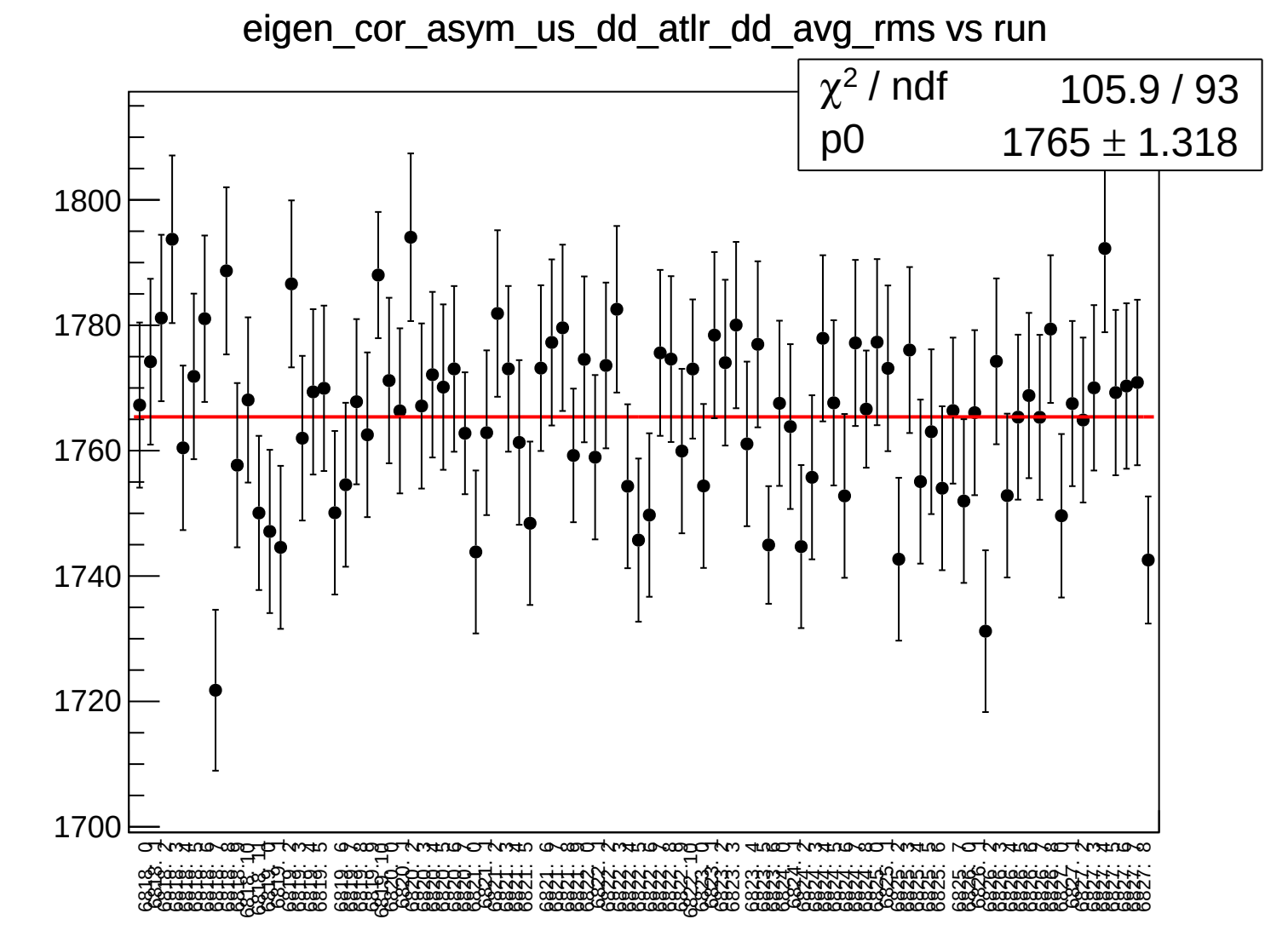

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 105.9 / 93
p0 1765 ± 1.318
1800
1780
1760
1740
1720
1700

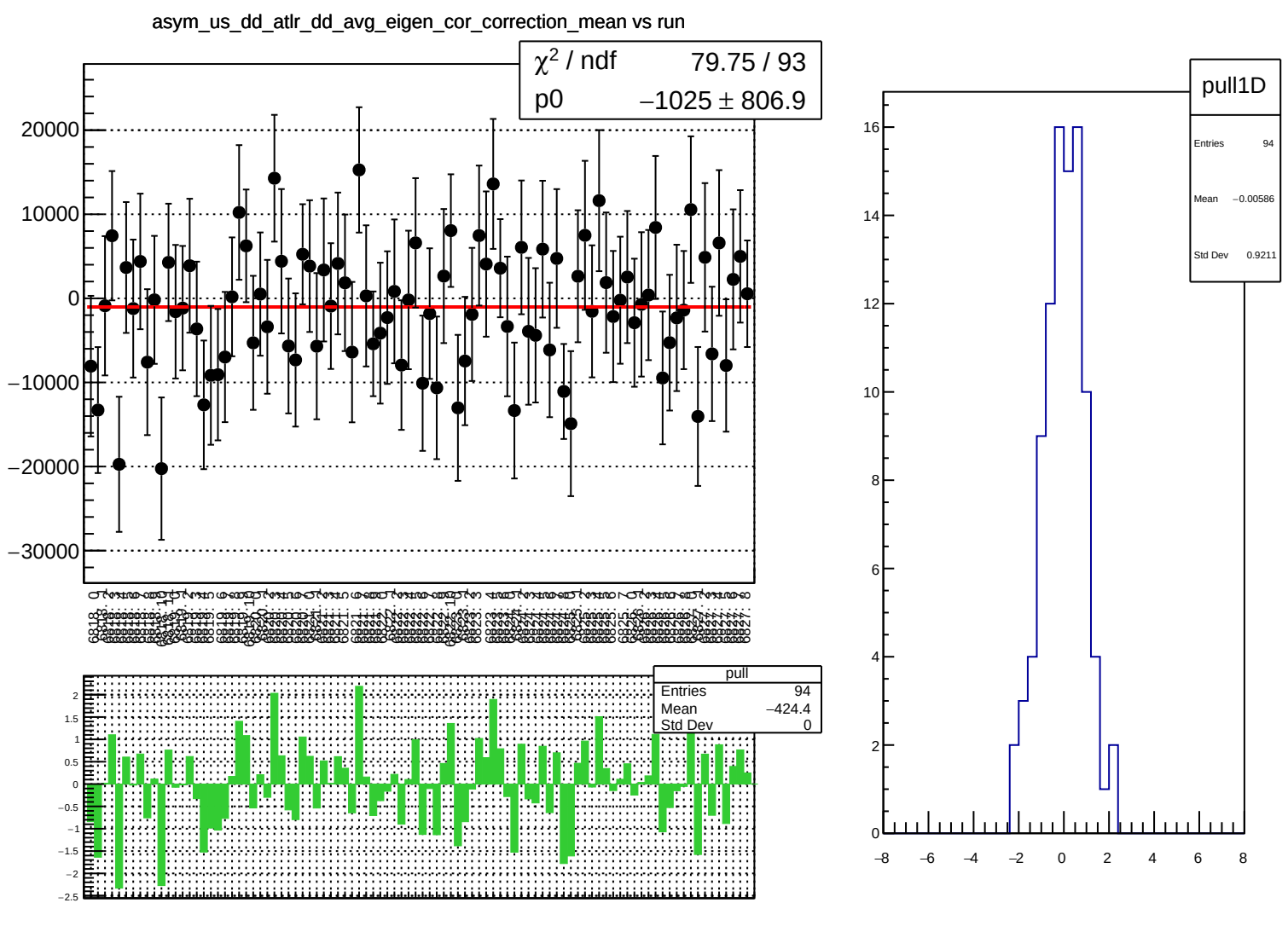

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 79.75 / 93
p0 −1025 ± 806.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.00586
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

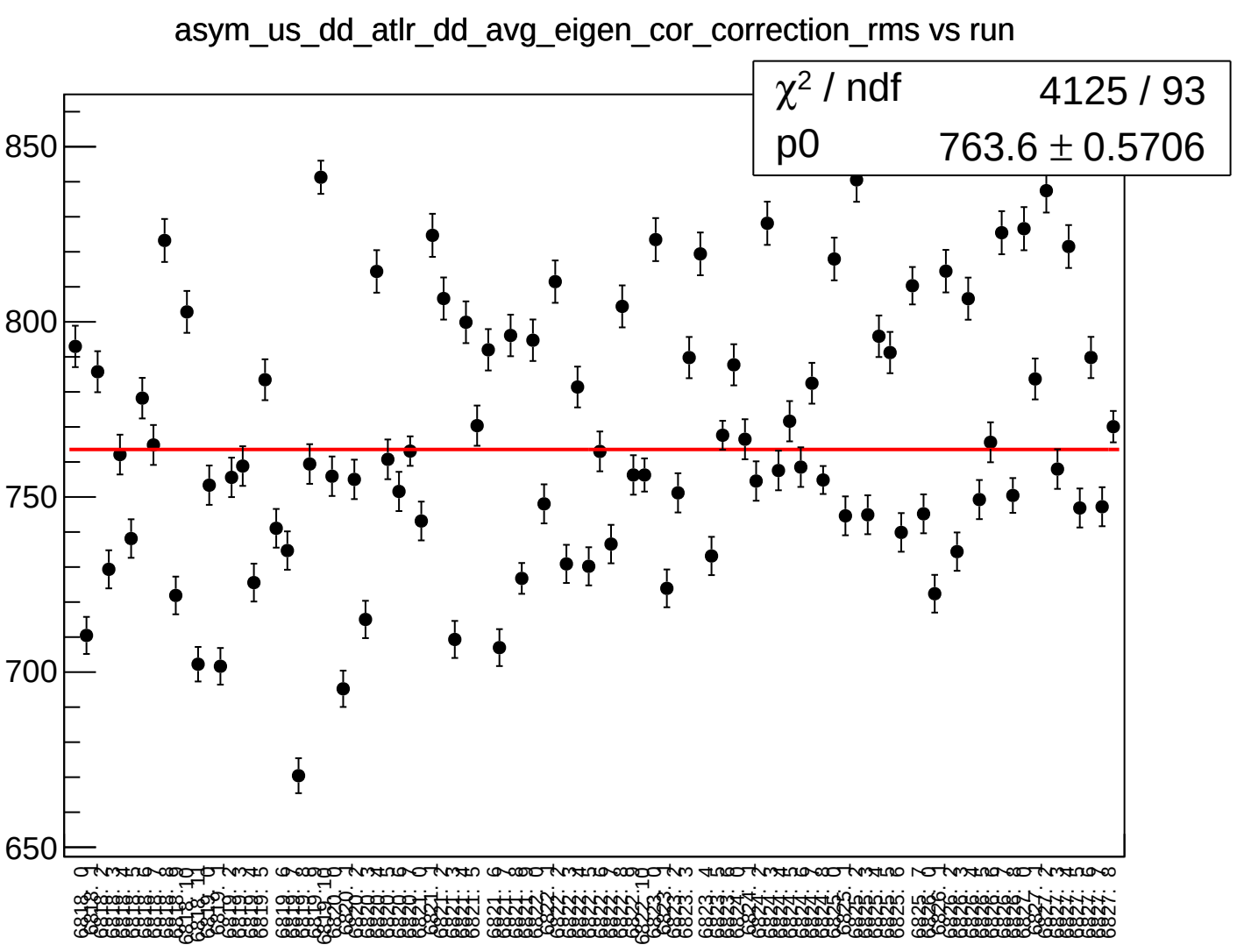

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4125 / 93
p0 763.6 ± 0.5706
850
800
750
700
650

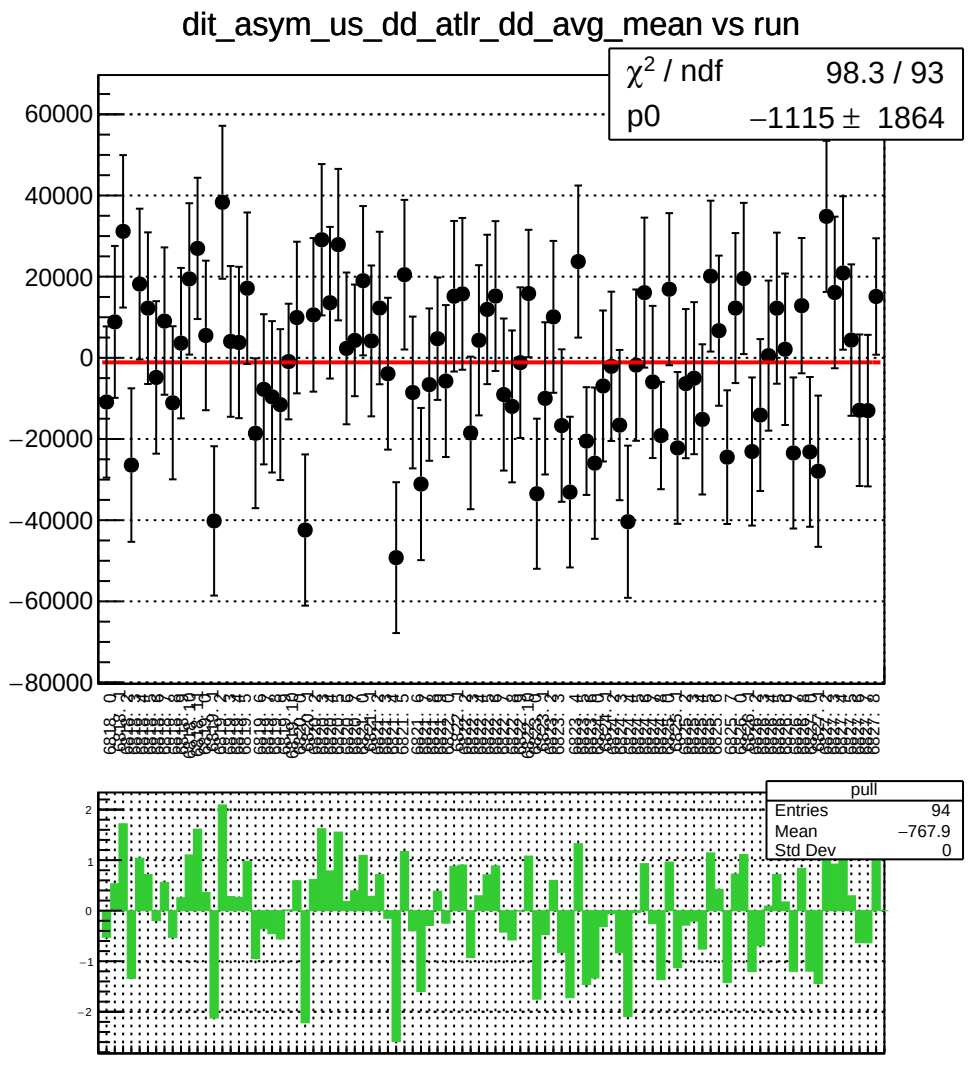

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.55 / 93
p0 −1115 ± 1863
pull
Entries 94
Mean −773.4
Std Dev 0

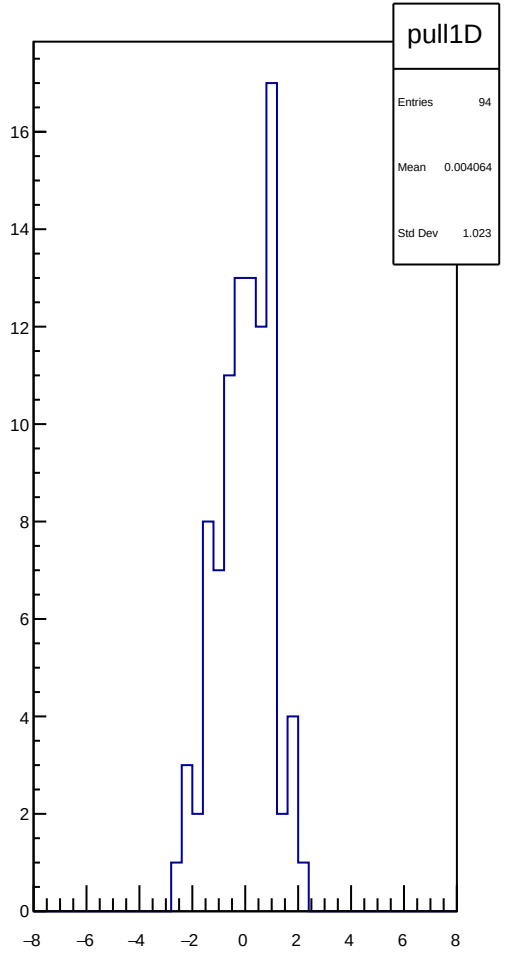

pull1D
Entries 94
Mean 0.004001
Std Dev 1.024

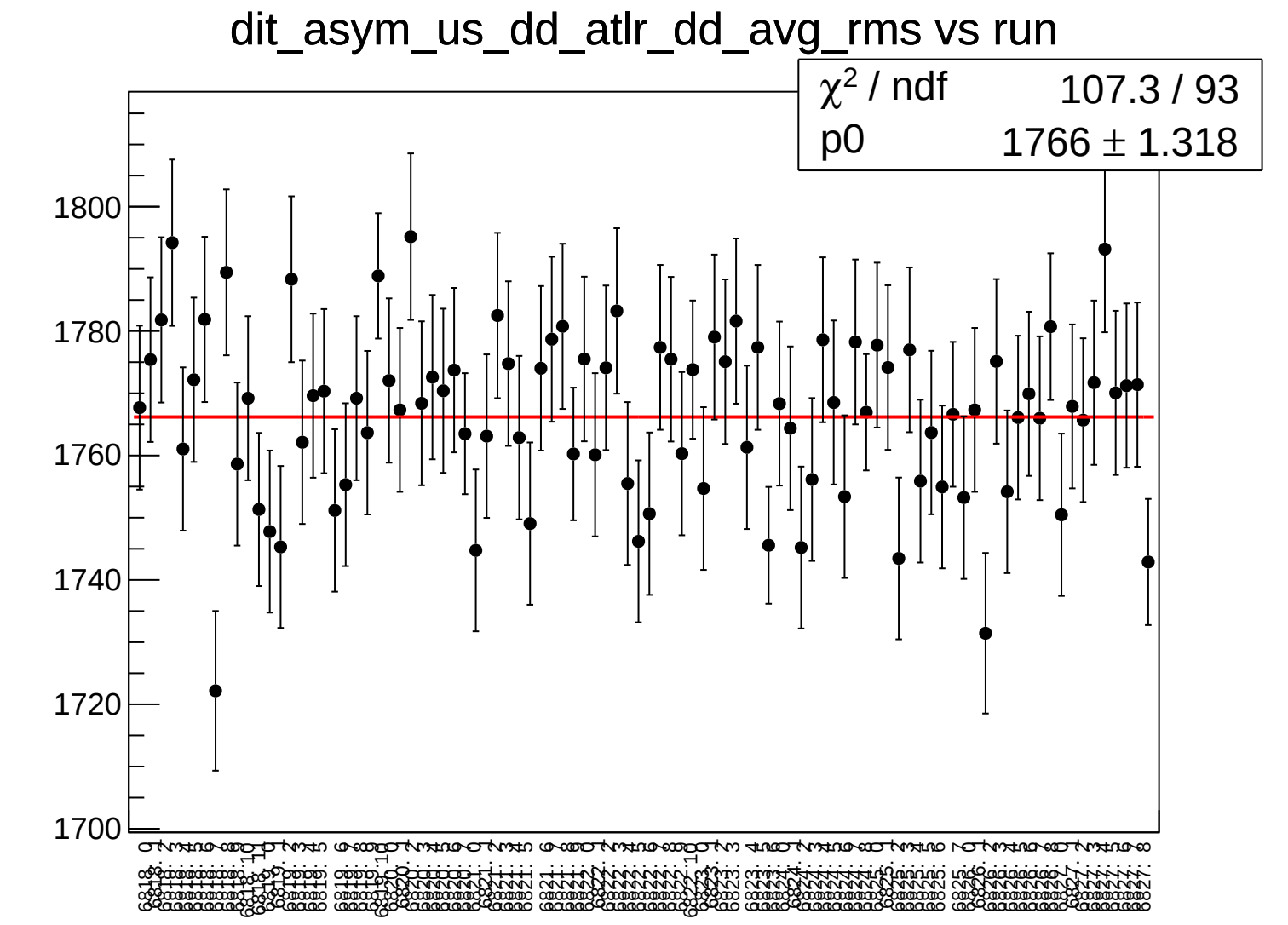

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 105.9 / 93
p0 1765 ± 1.318
1800
1780
1760
1740
1720
1700

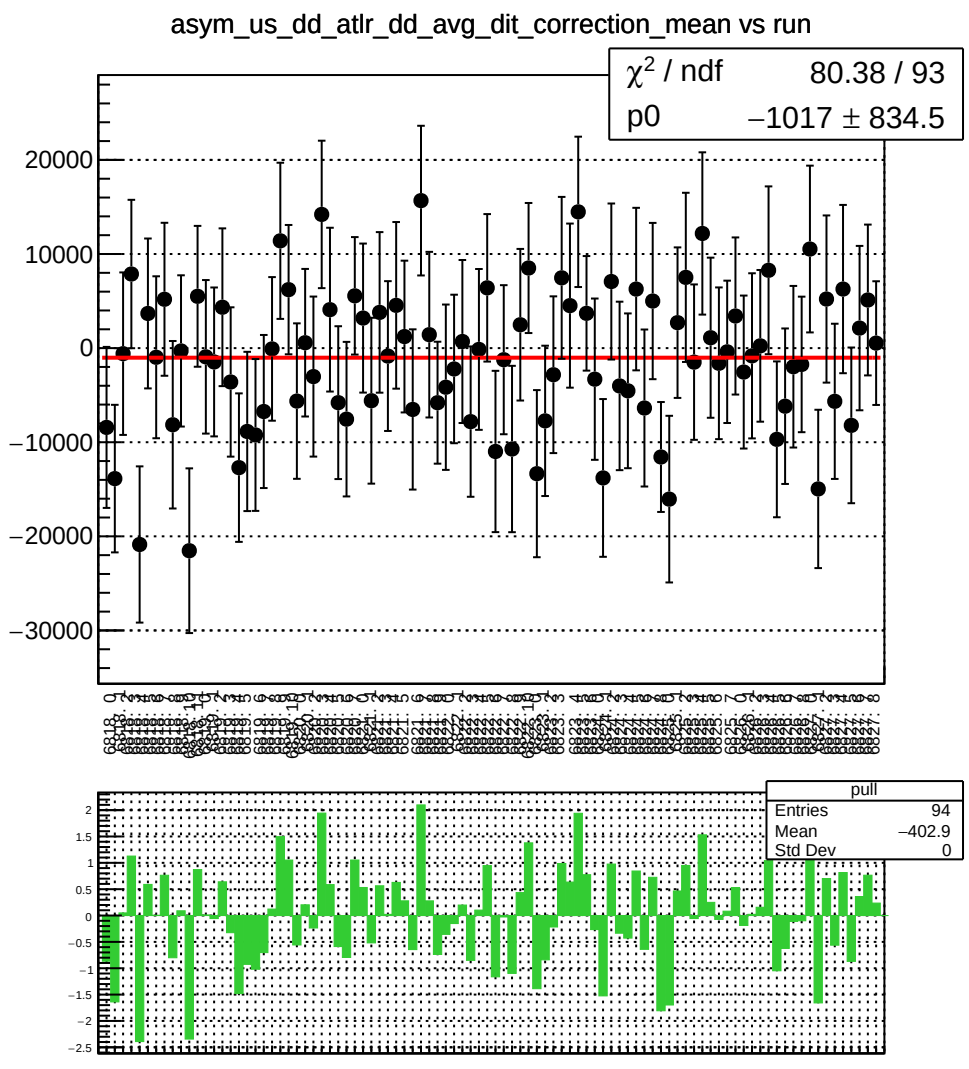

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.75 / 93
p0 −1025 ± 806.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −424.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.00586
Std Dev 0.9211
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

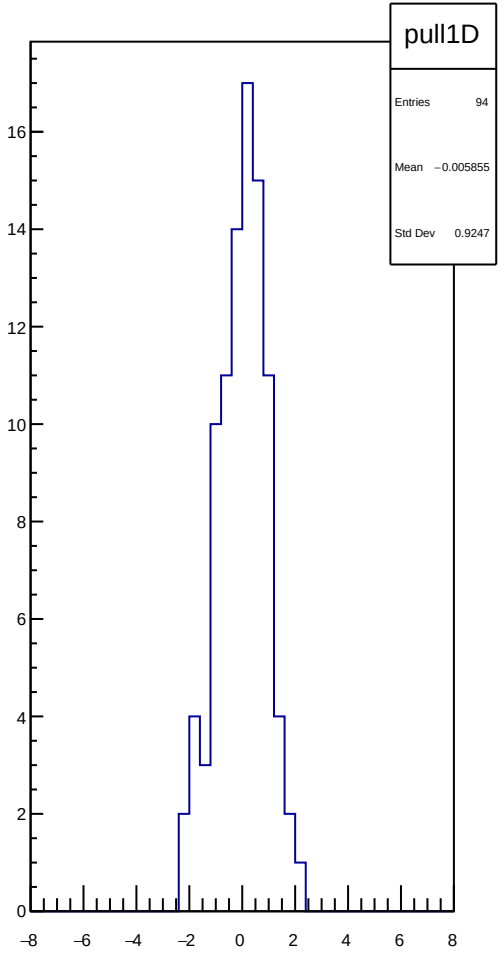

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4125 / 93
p0 763.6 ± 0.5706
850
800
750
700
650

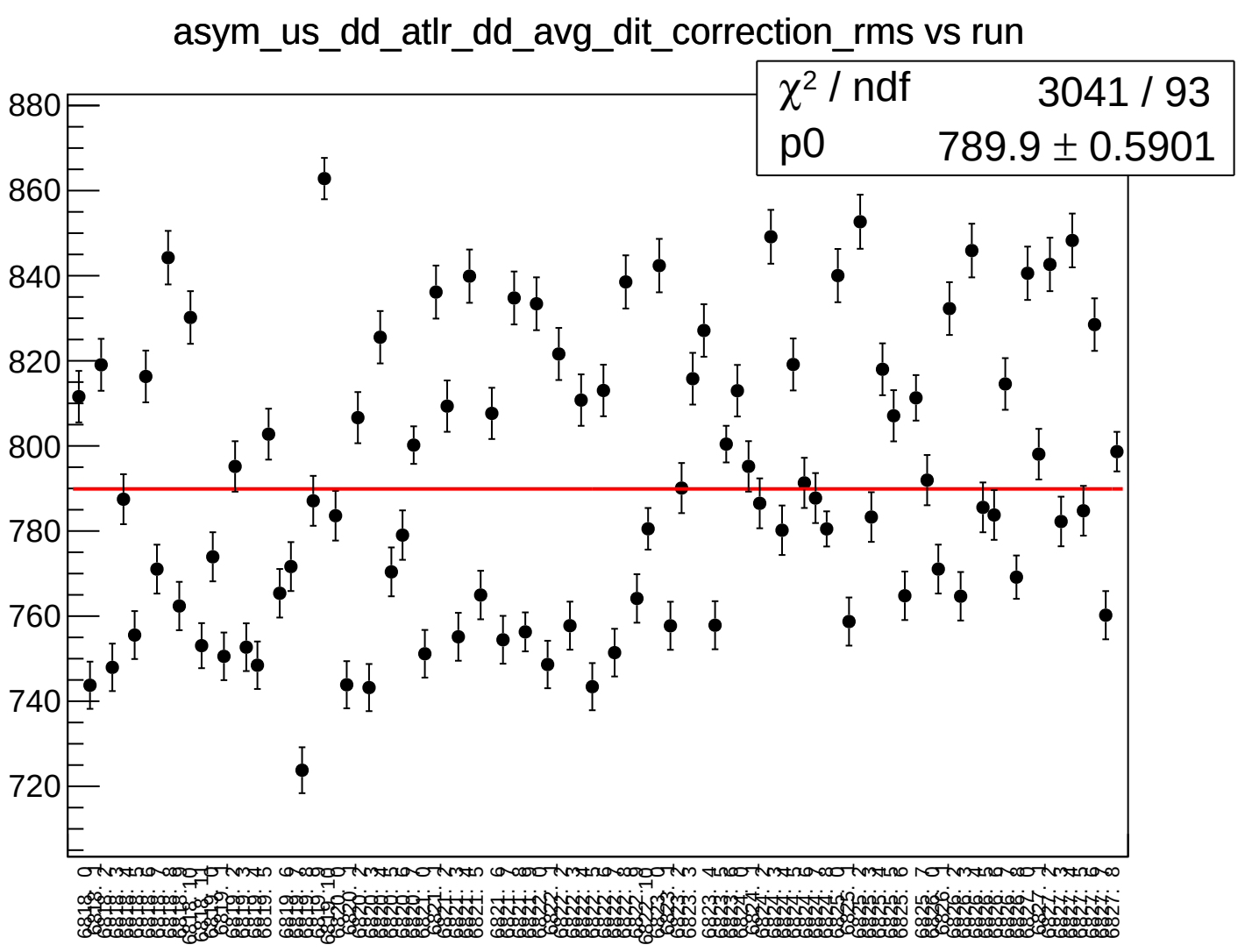

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.3 / 93
p0 −1115 ± 1864
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −767.9
Std Dev 0
2
1
0
−1
−2

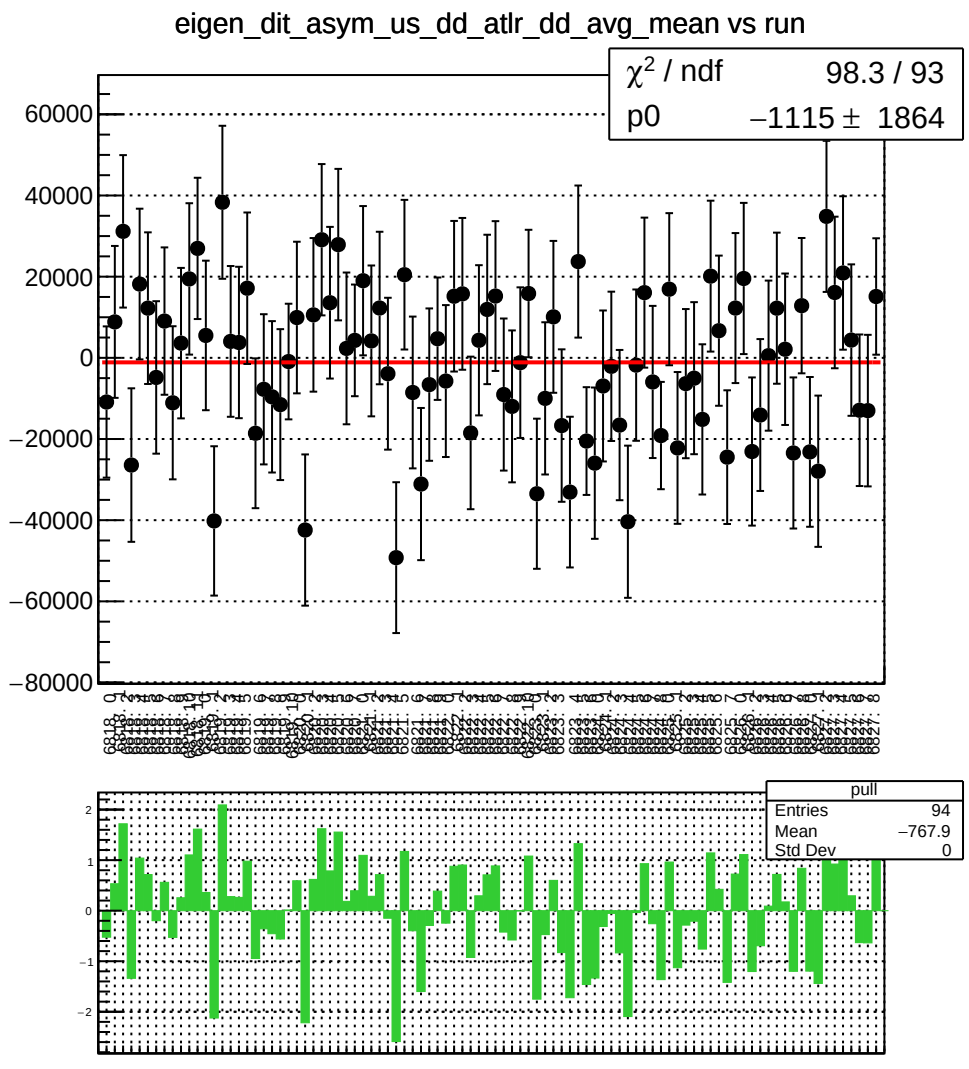

pull1D
Entries 94
Mean 0.004064
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

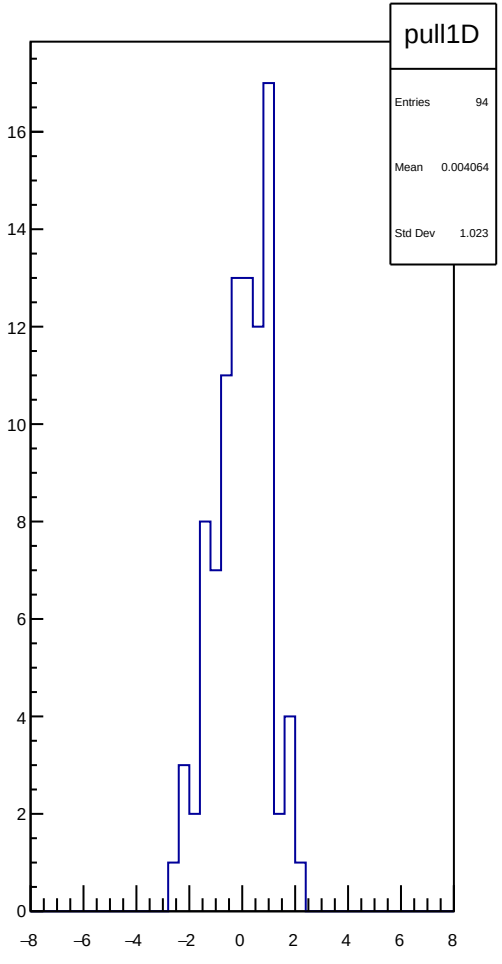

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 107.3 / 93
p0 1766 ± 1.318
1800
1780
1760
1740
1720
1700

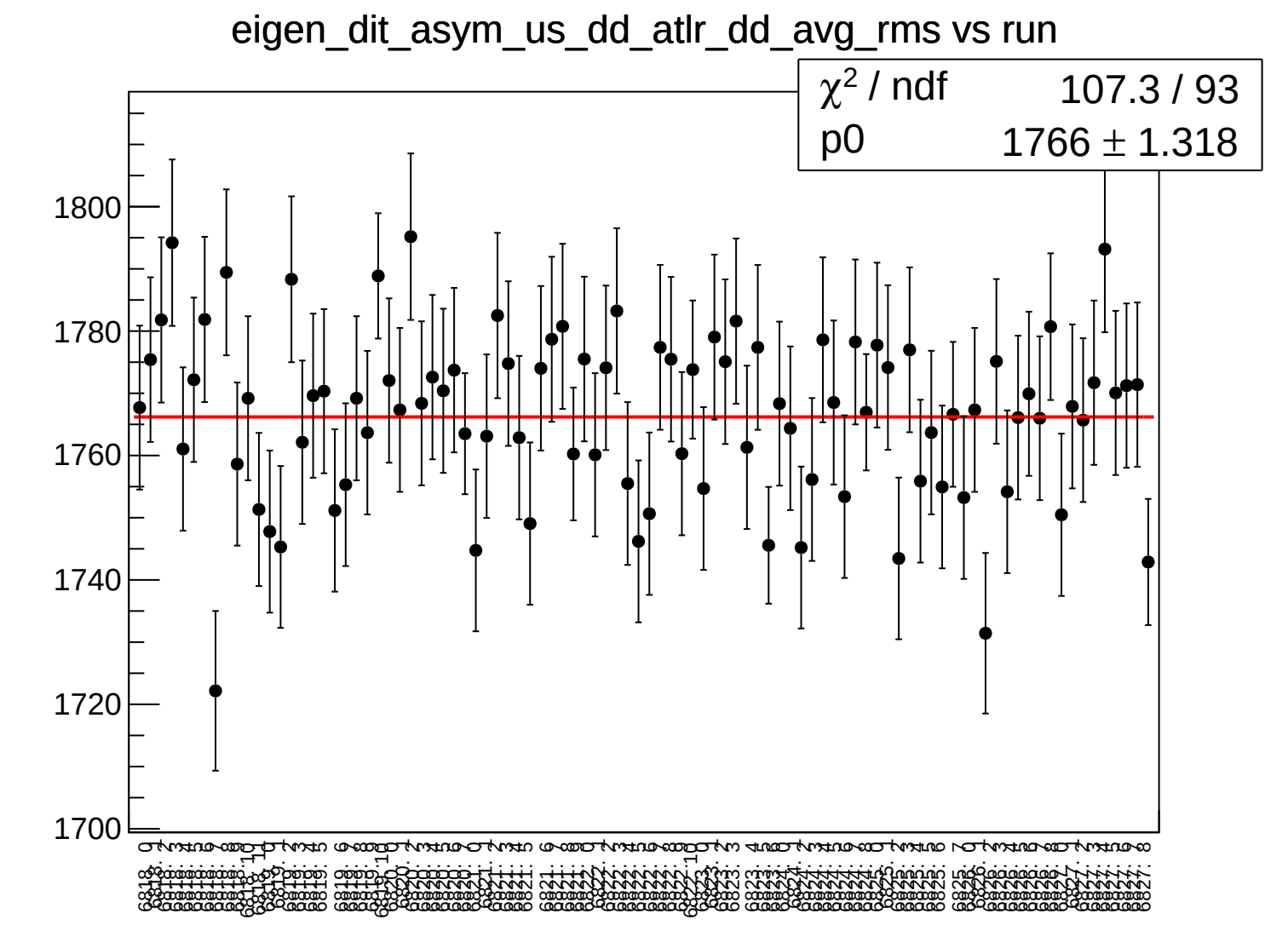

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 80.38 / 93
p0 −1017 ± 834.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −402.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

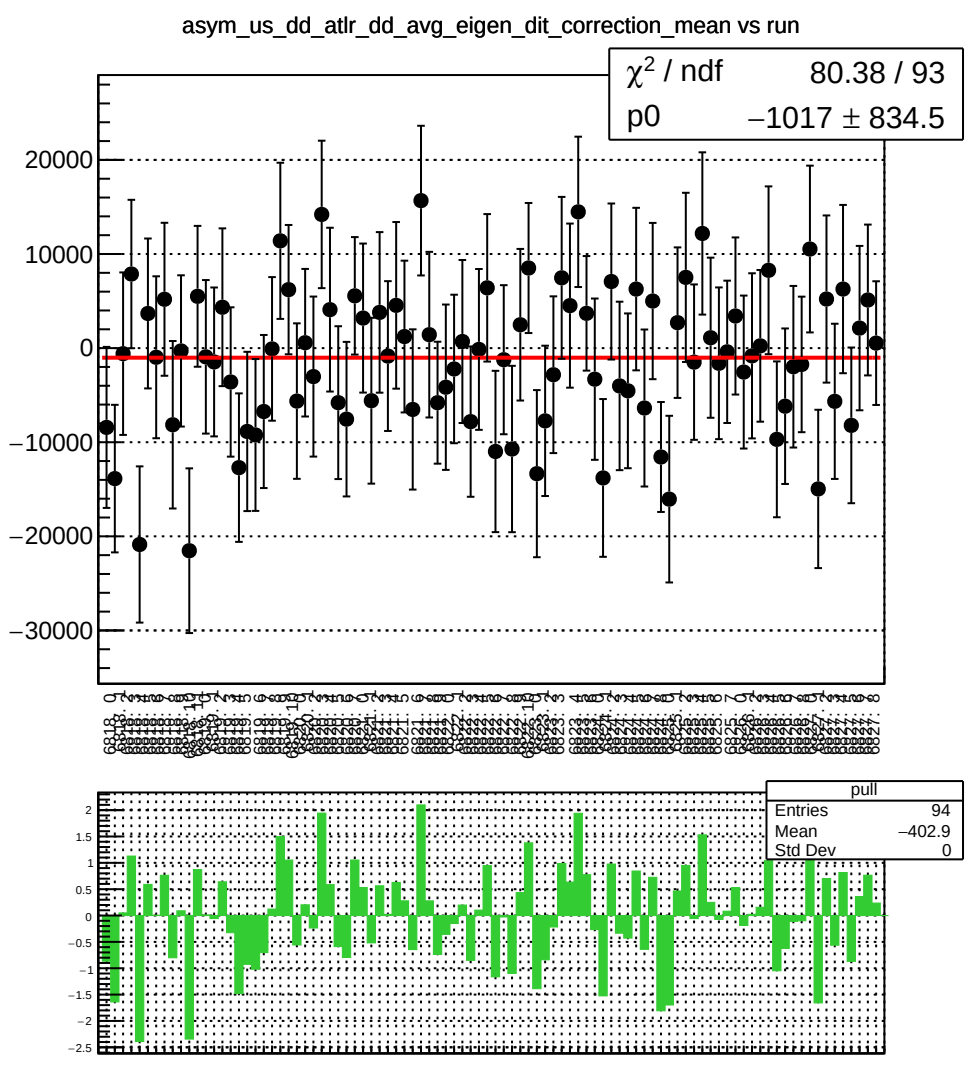

pull1D
Entries 94
Mean −0.005855
Std Dev 0.9247
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

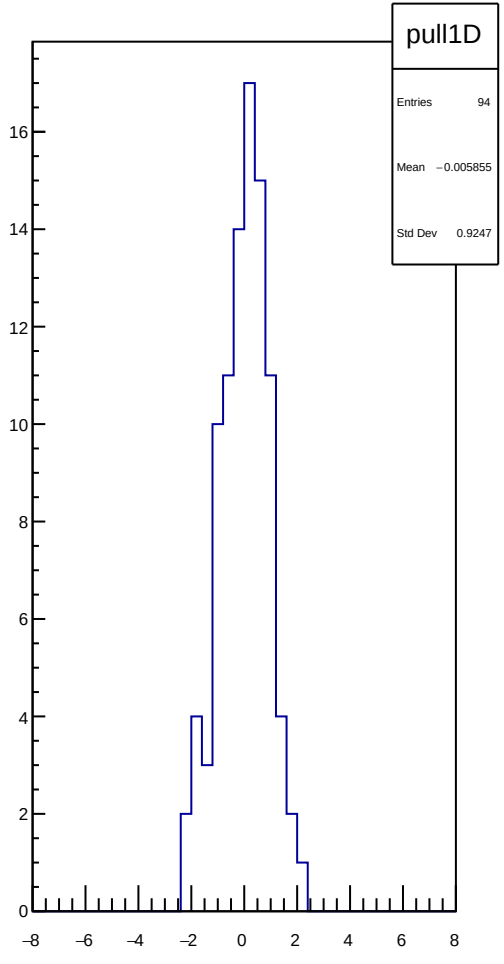

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3041 / 93
p0 789.9 ± 0.5901
880
860
840
820
800
780
760
740
720

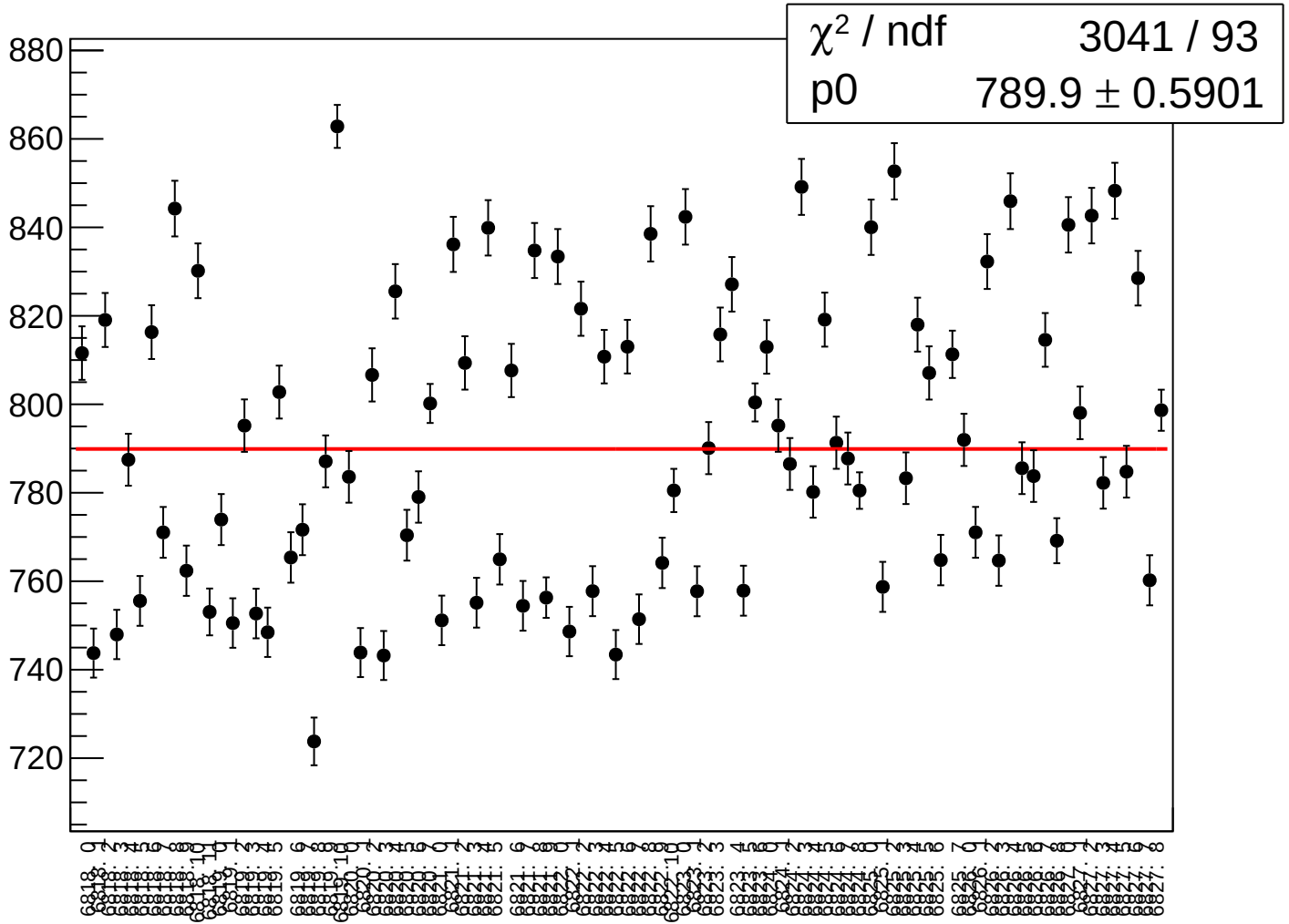

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 98.3 / 93
p0 −1115 ± 1864
pull
Entries 94
Mean −767.9
Std Dev 0

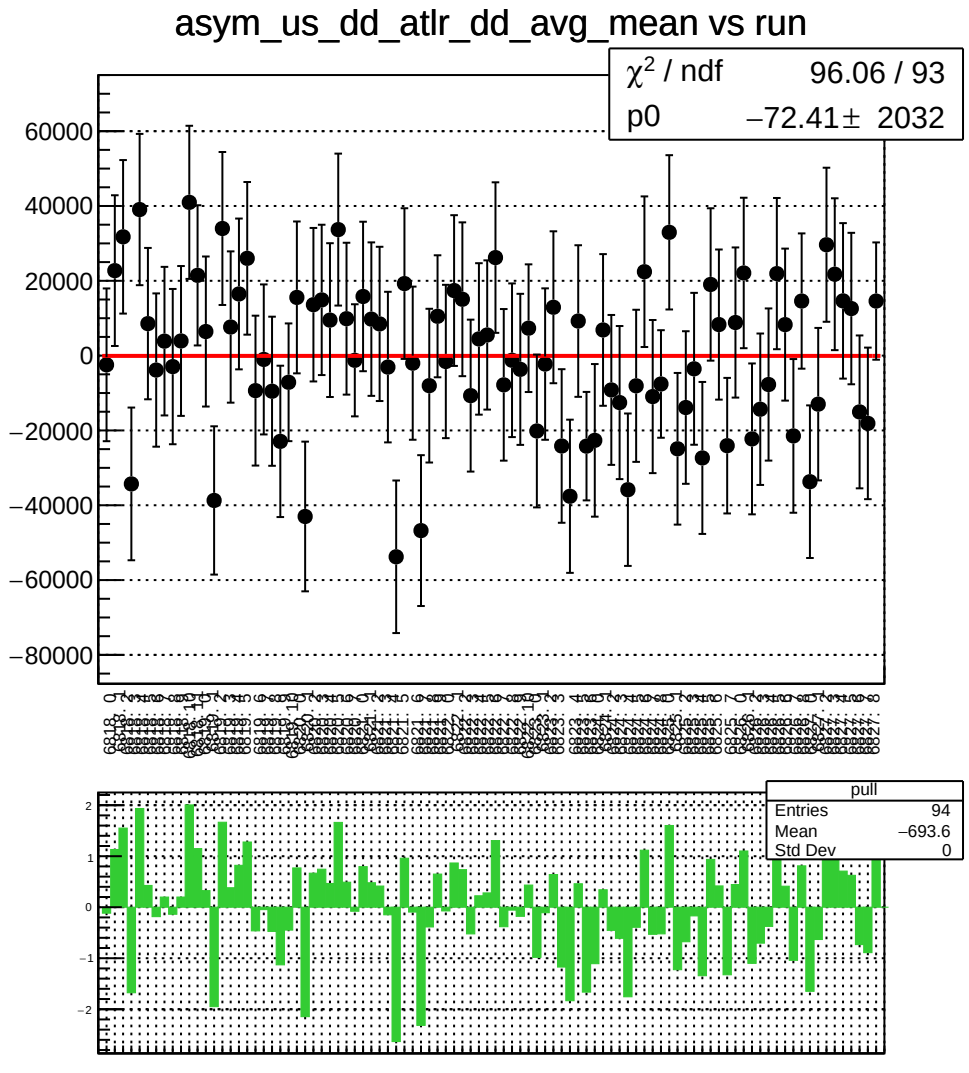

pull1D
Entries 94
Mean 0.004064
Std Dev 1.023

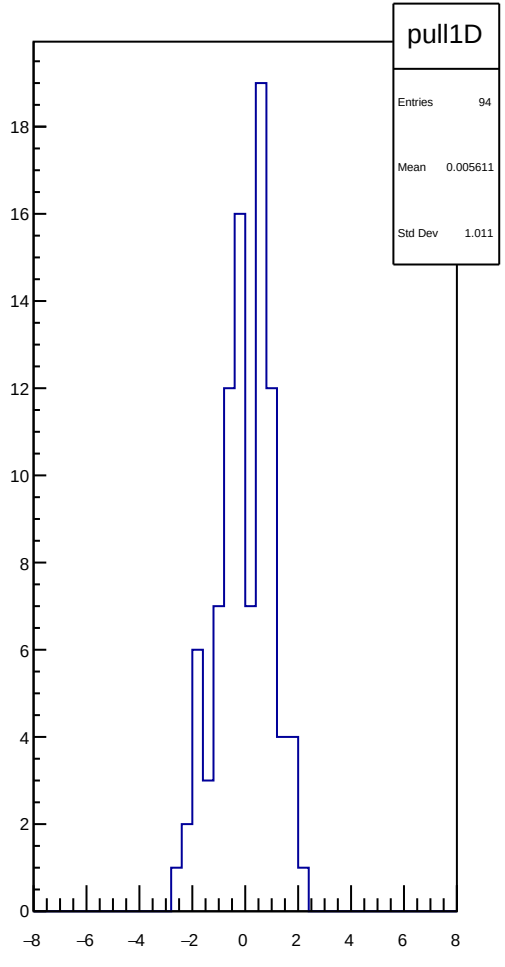

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 107.3 / 93
p0 1766 ± 1.318
1800
1780
1760
1740
1720
1700

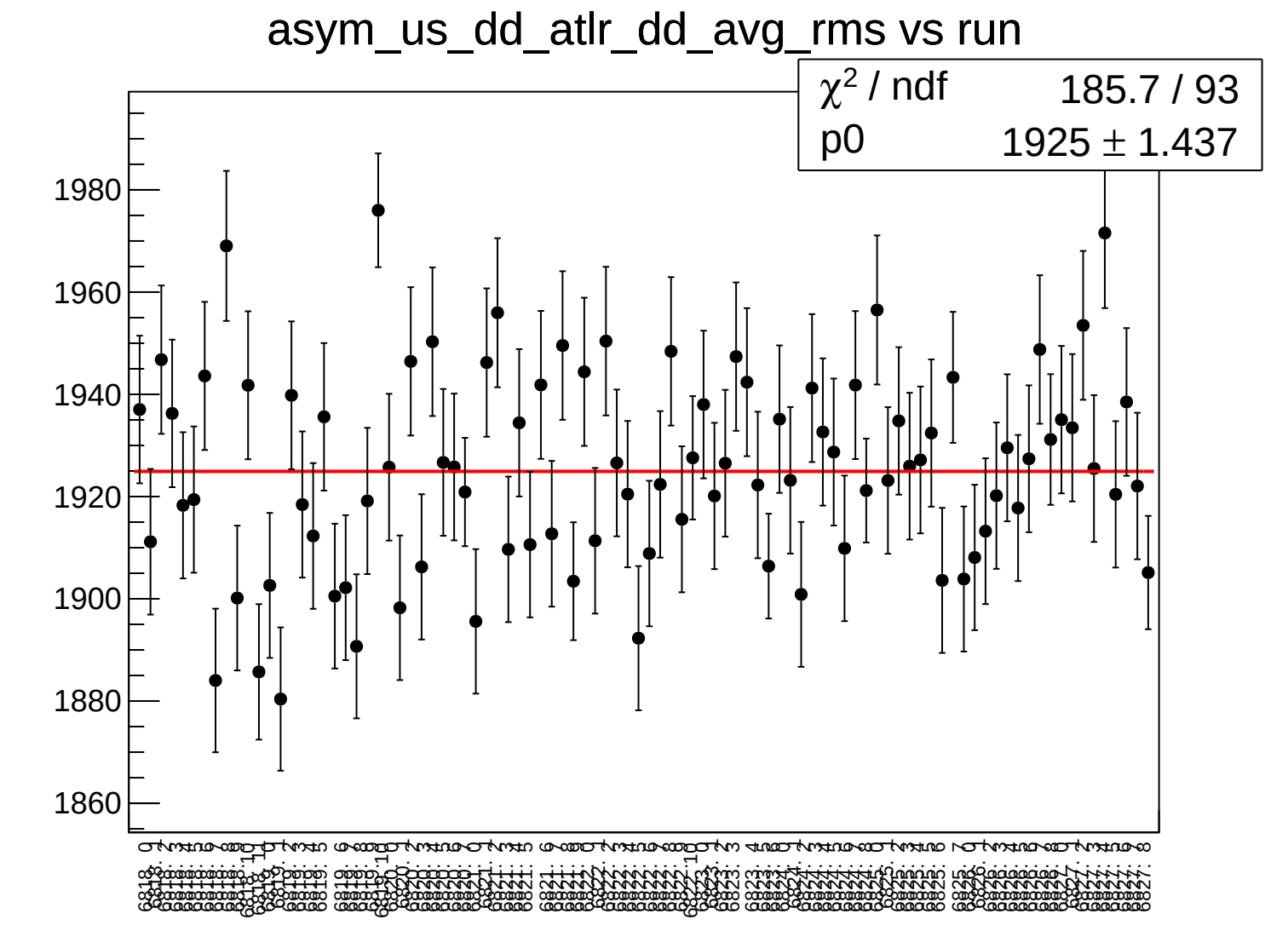

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.38 / 93
p0 −1017 ± 834.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −402.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

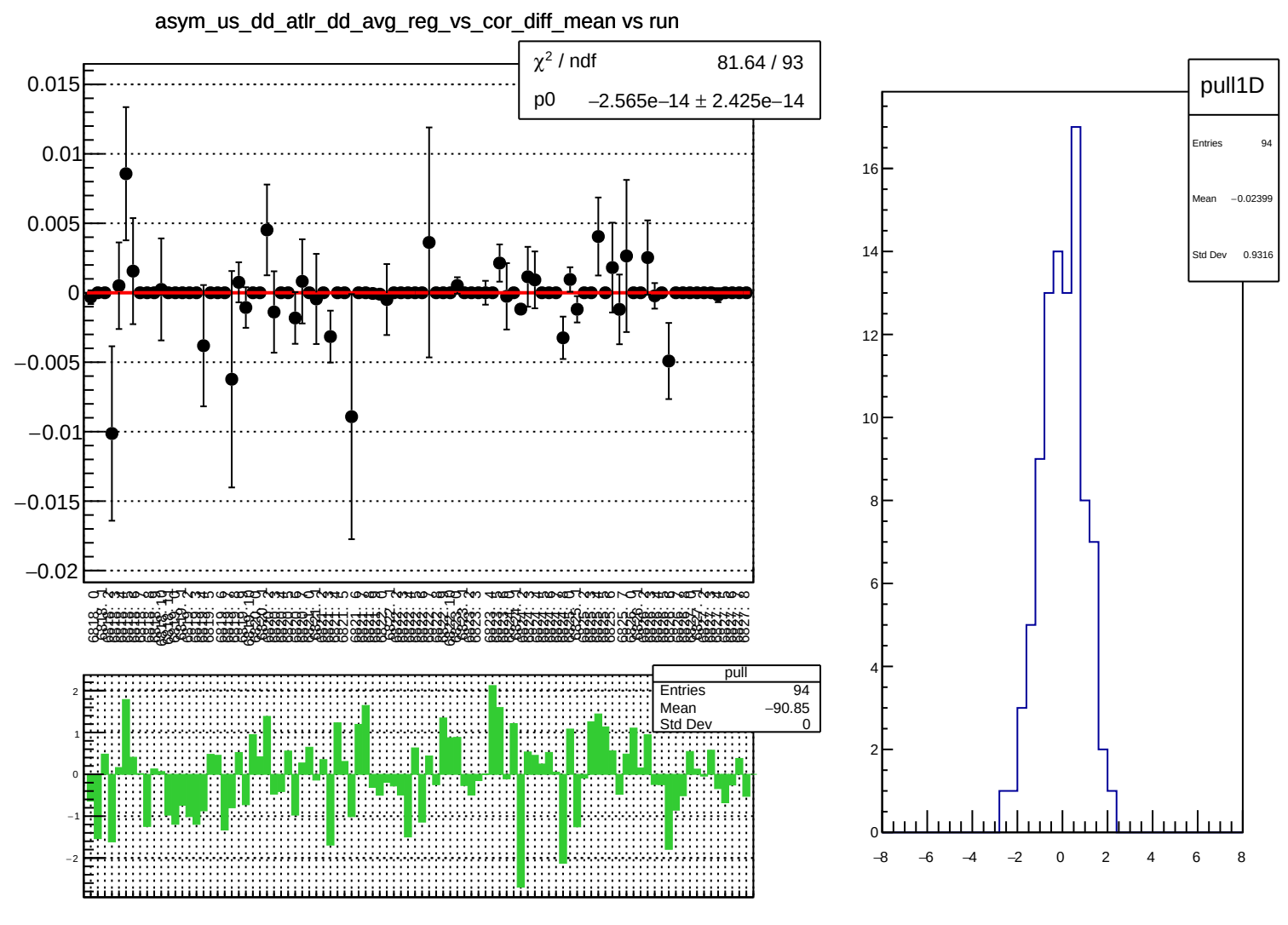

pull1D
Entries 94
Mean −0.005855
Std Dev 0.9247
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

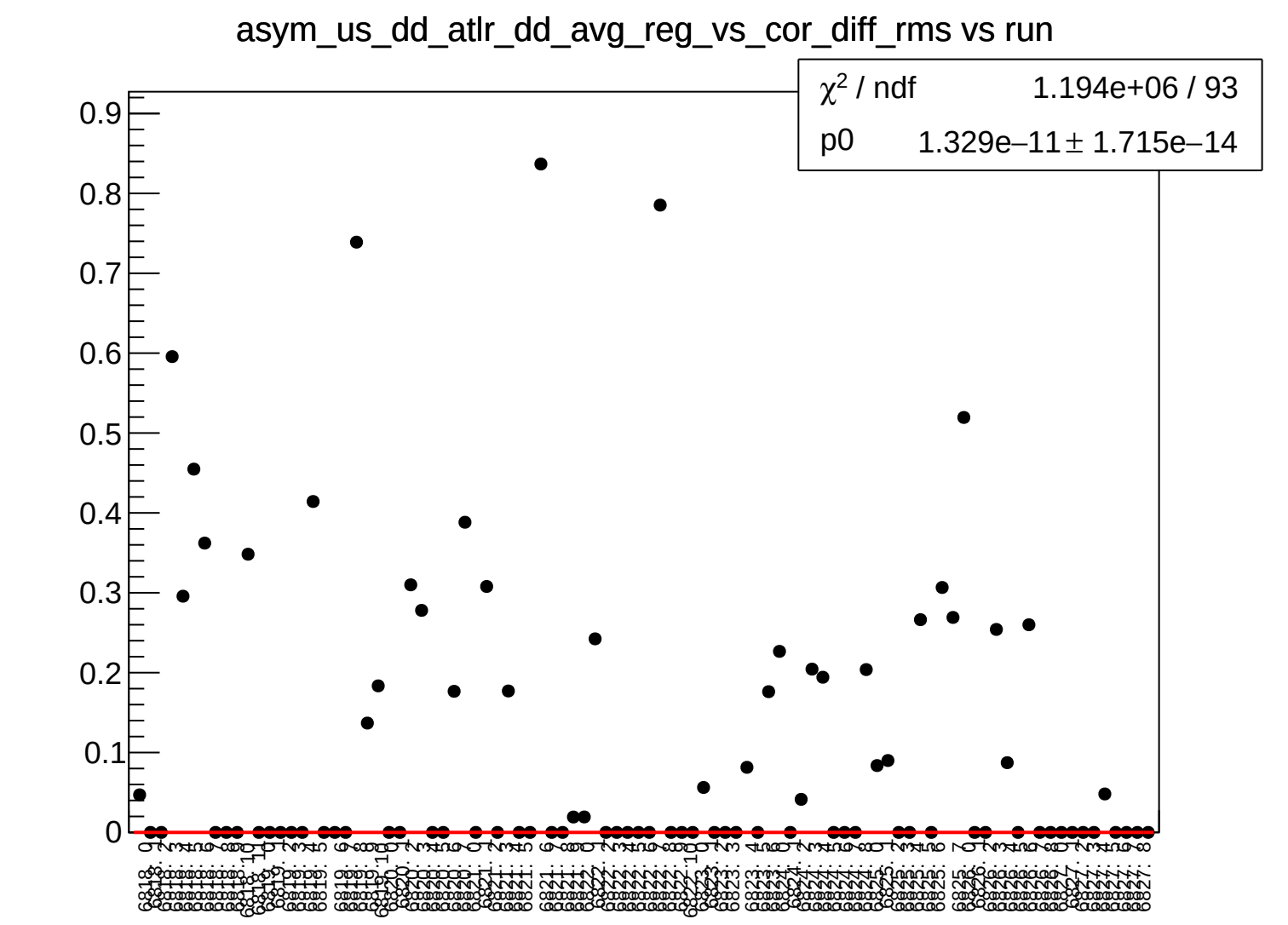

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3041 / 93
p0 789.9 ± 0.5901
880
860
840
820
800
780
760
740
720

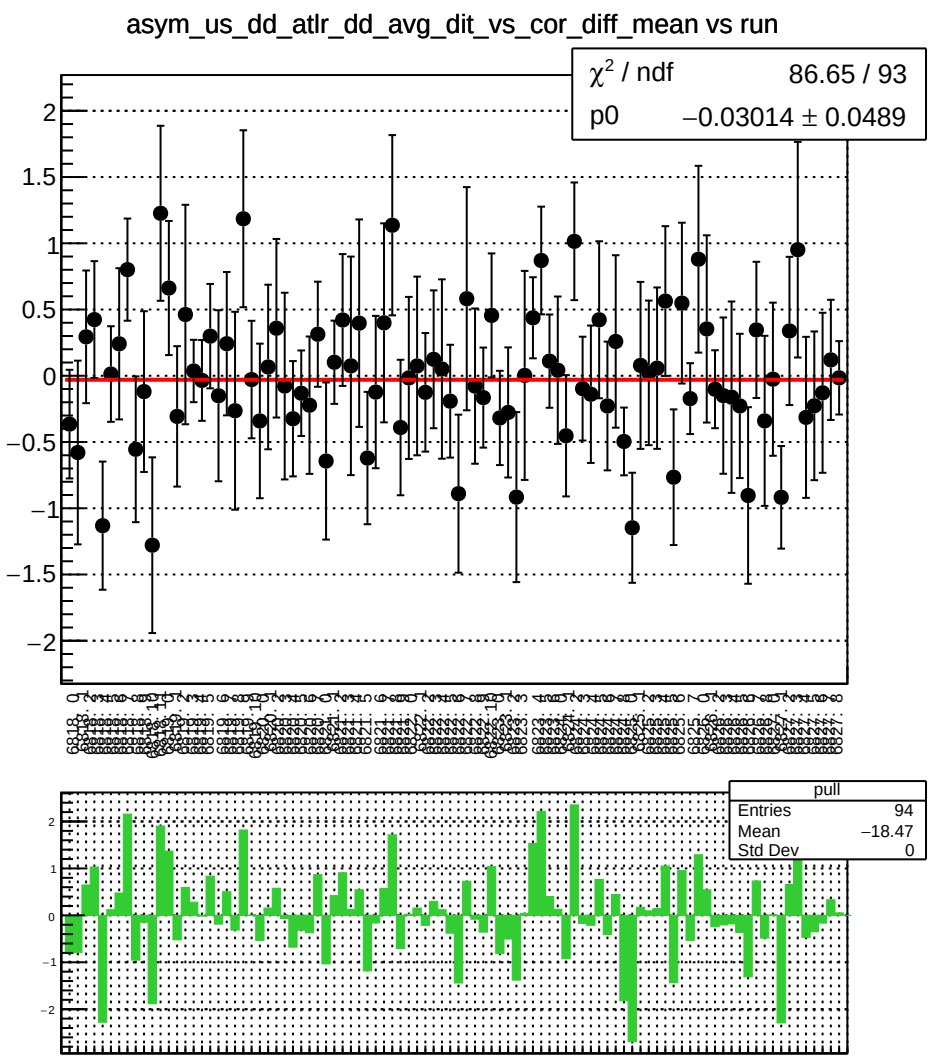

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 96.06 / 93
p0 −72.41± 2032
pull
Entries 94
Mean −693.6
Std Dev 0

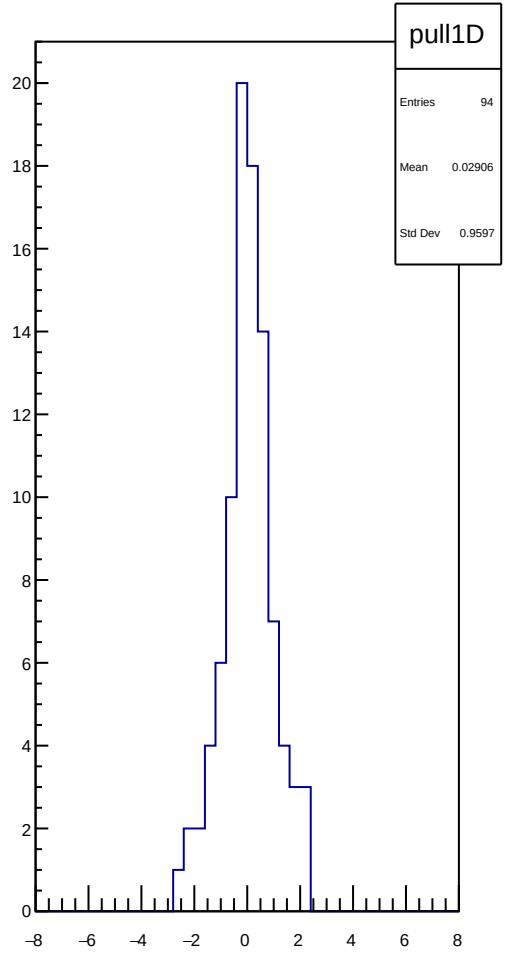

pull1D
Entries 94
Mean 0.005611
Std Dev 1.011

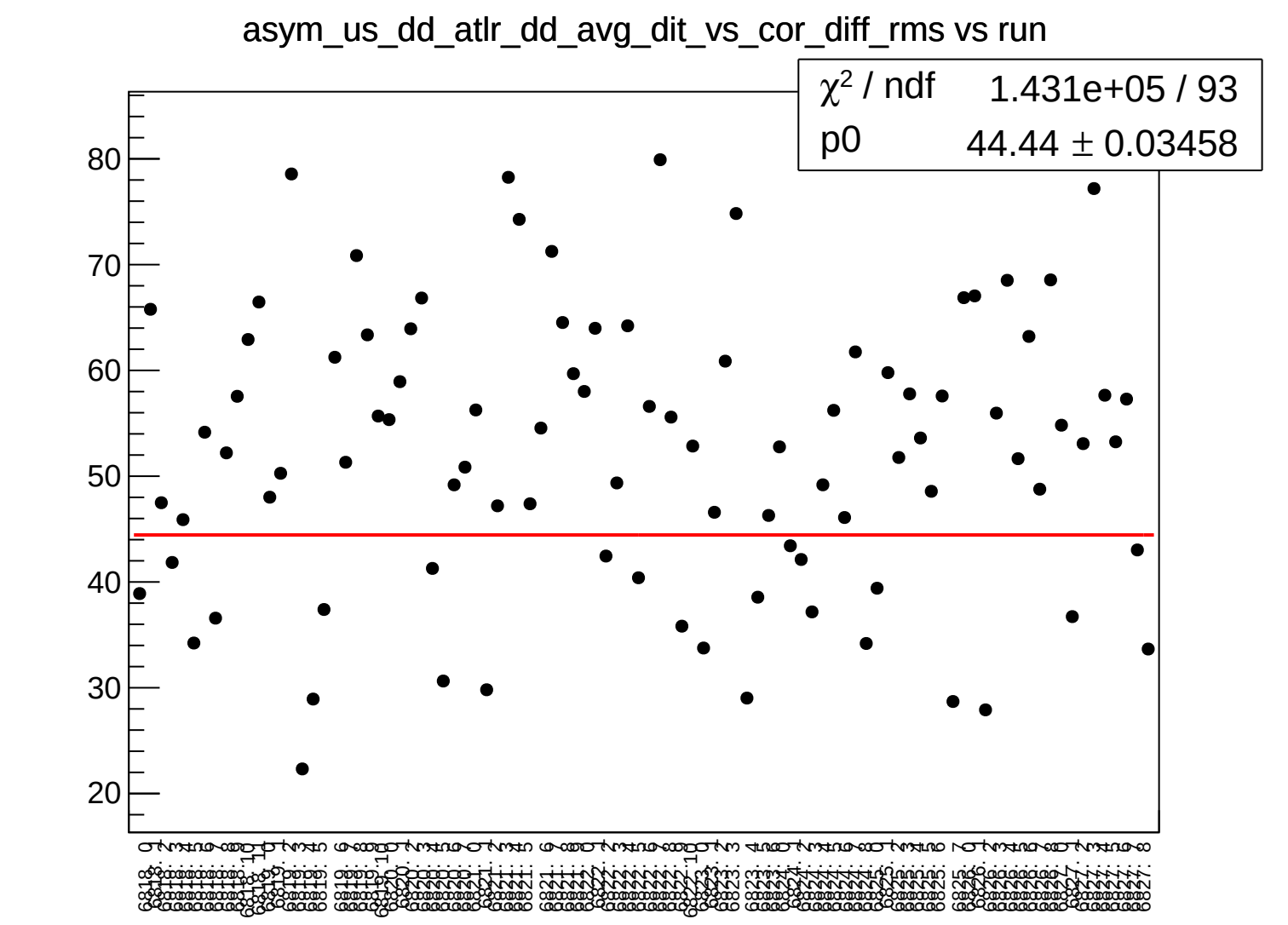

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 185.7 / 93
p0 1925 ± 1.437
1980
1960
1940
1920
1900
1880
1860

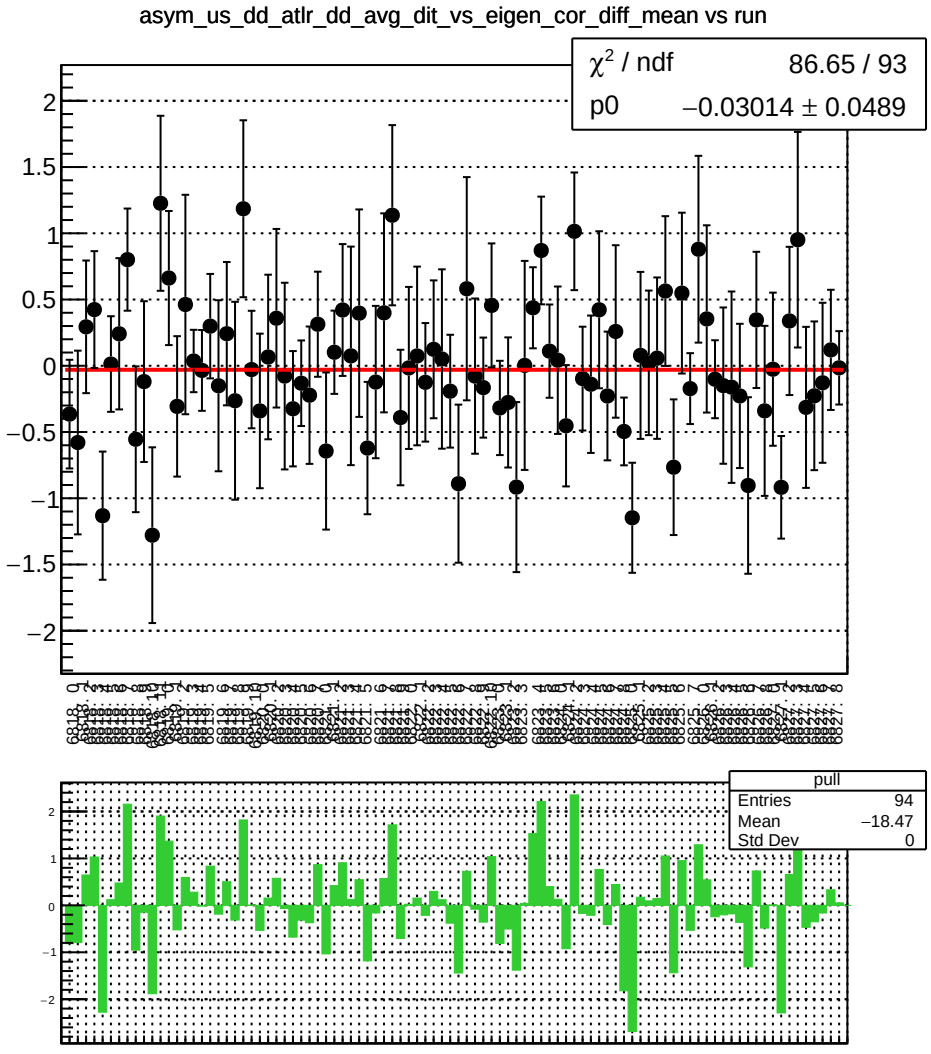

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.64 / 93
p0 −2.565e−14 ± 2.425e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 94
Mean −90.85
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02399
Std Dev 0.9316
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

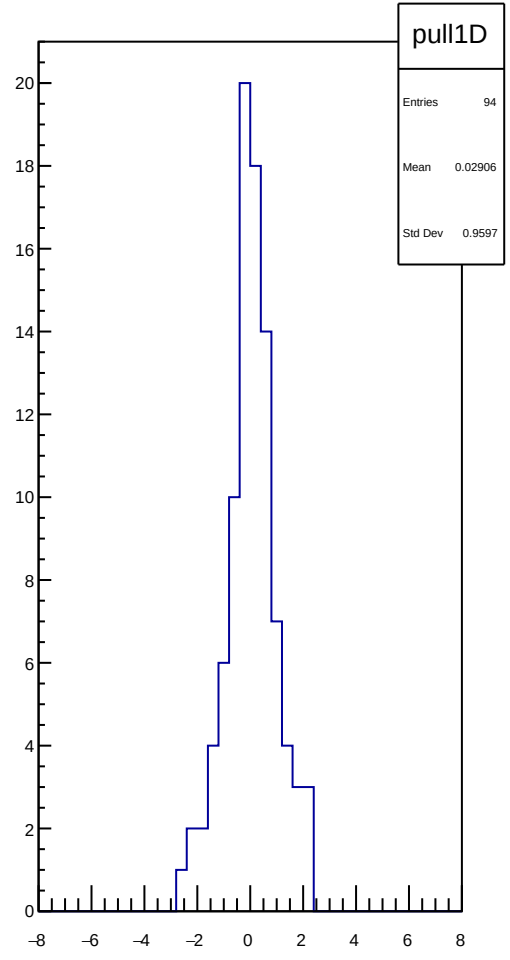

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.194e+06 / 93
p0 1.329e−11 ± 1.715e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

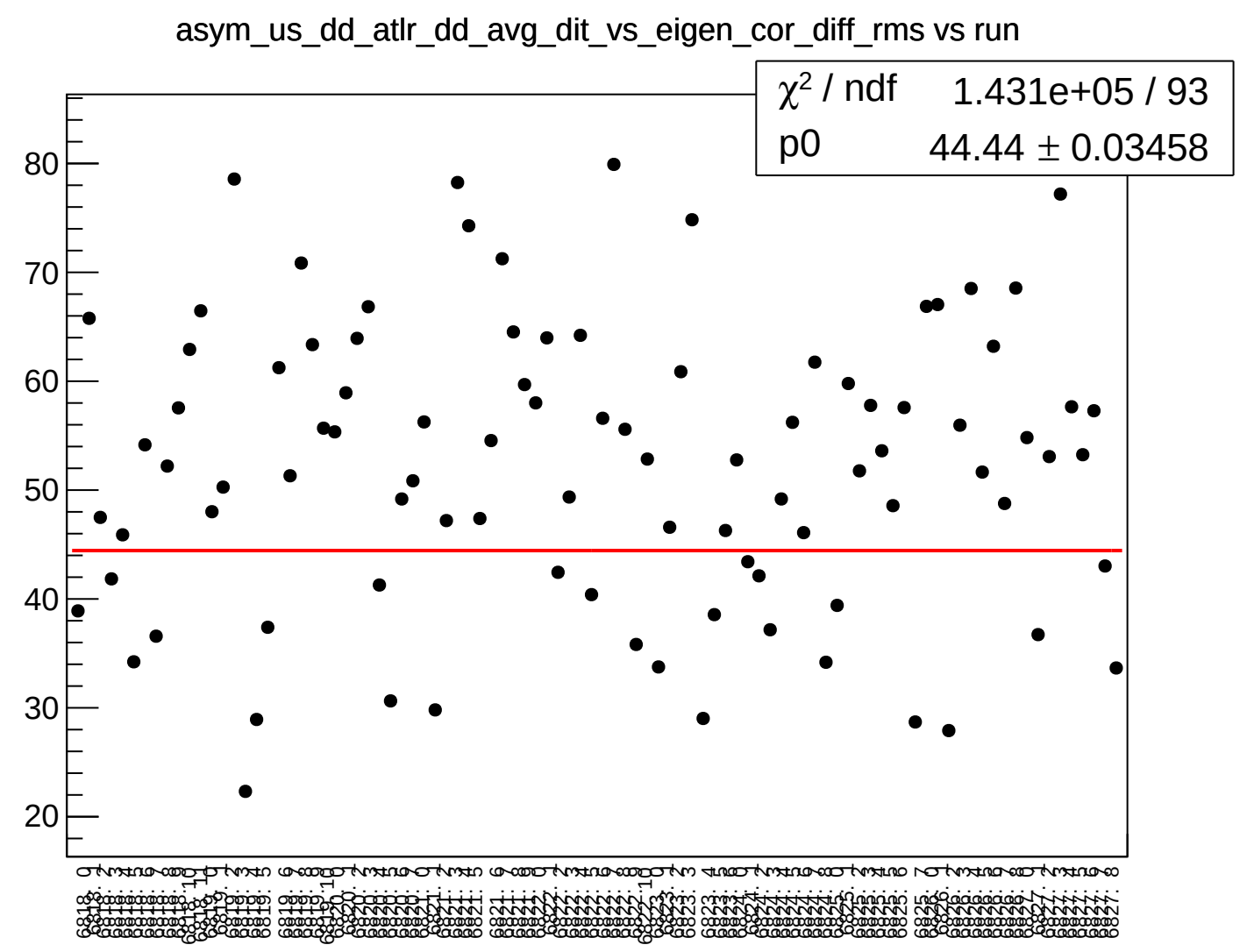

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 93
p0 −0.03014 ± 0.0489
pull
Entries 94
Mean −18.47
Std Dev 0

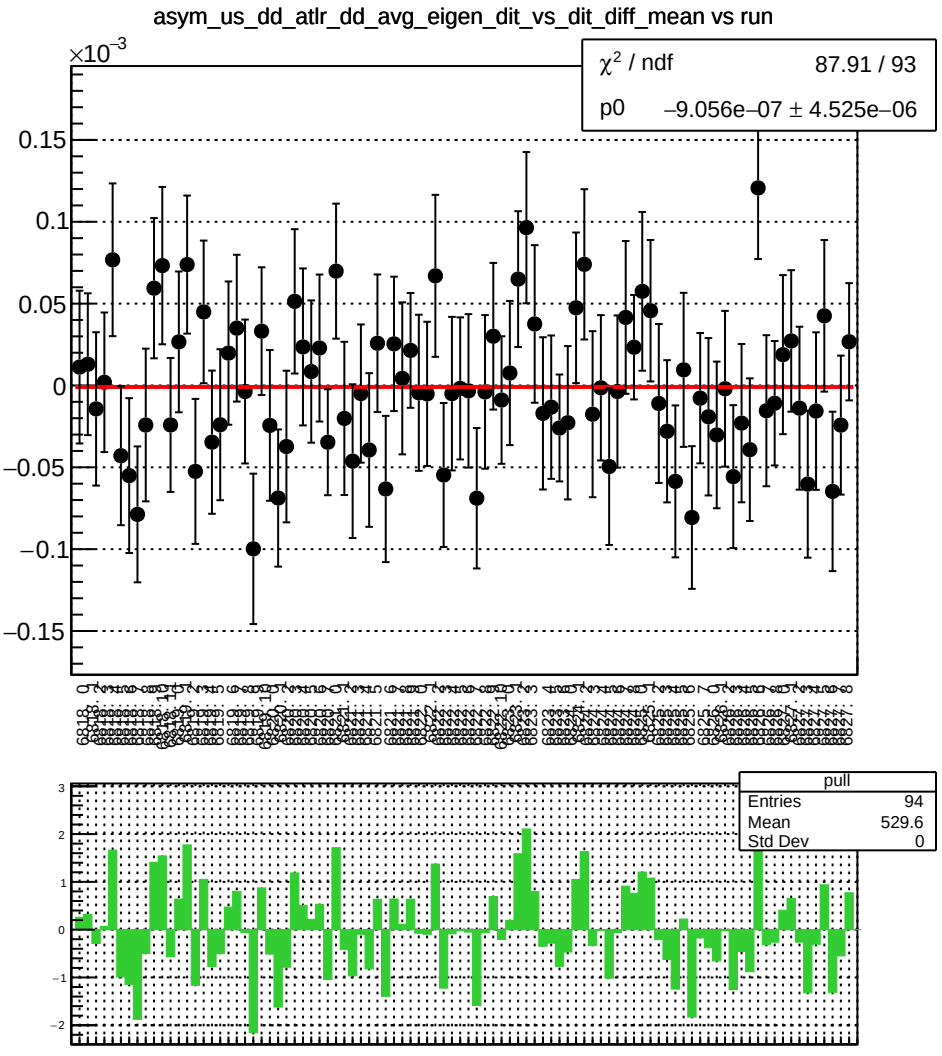

pull1D
Entries 94
Mean 0.02906
Std Dev 0.9597

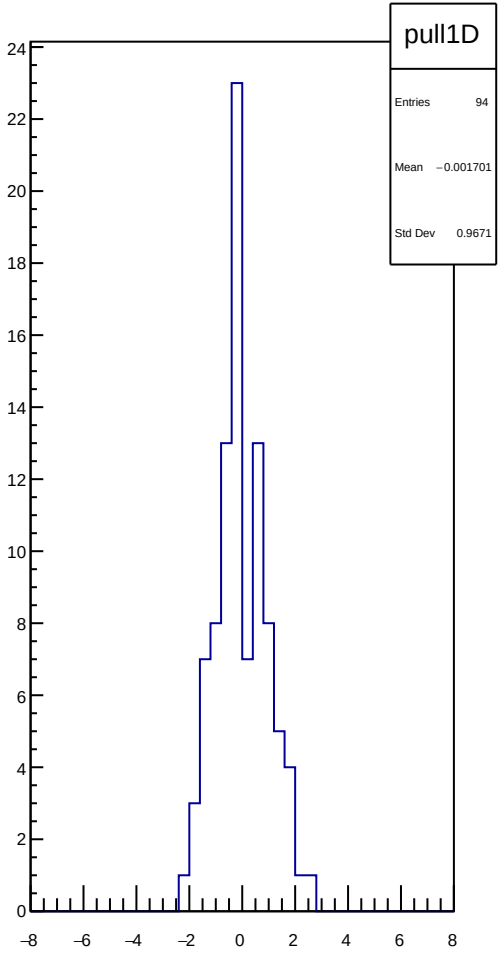

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.431e+05 / 93
p0 44.44 ± 0.03458
80
70
60
50
40
30
20

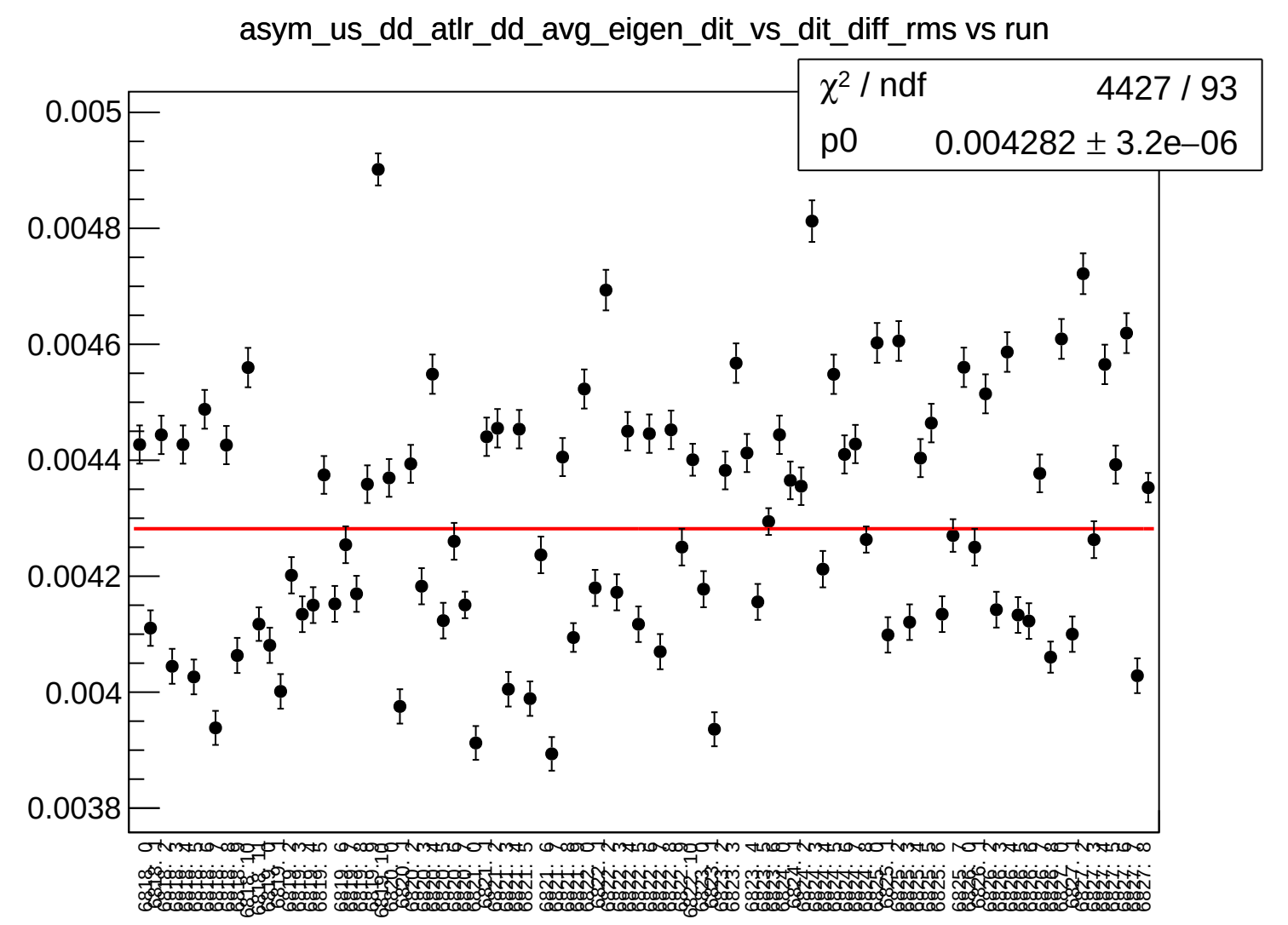

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 93
p0 −0.03014 ± 0.0489
pull
Entries 94
Mean −18.47
Std Dev 0

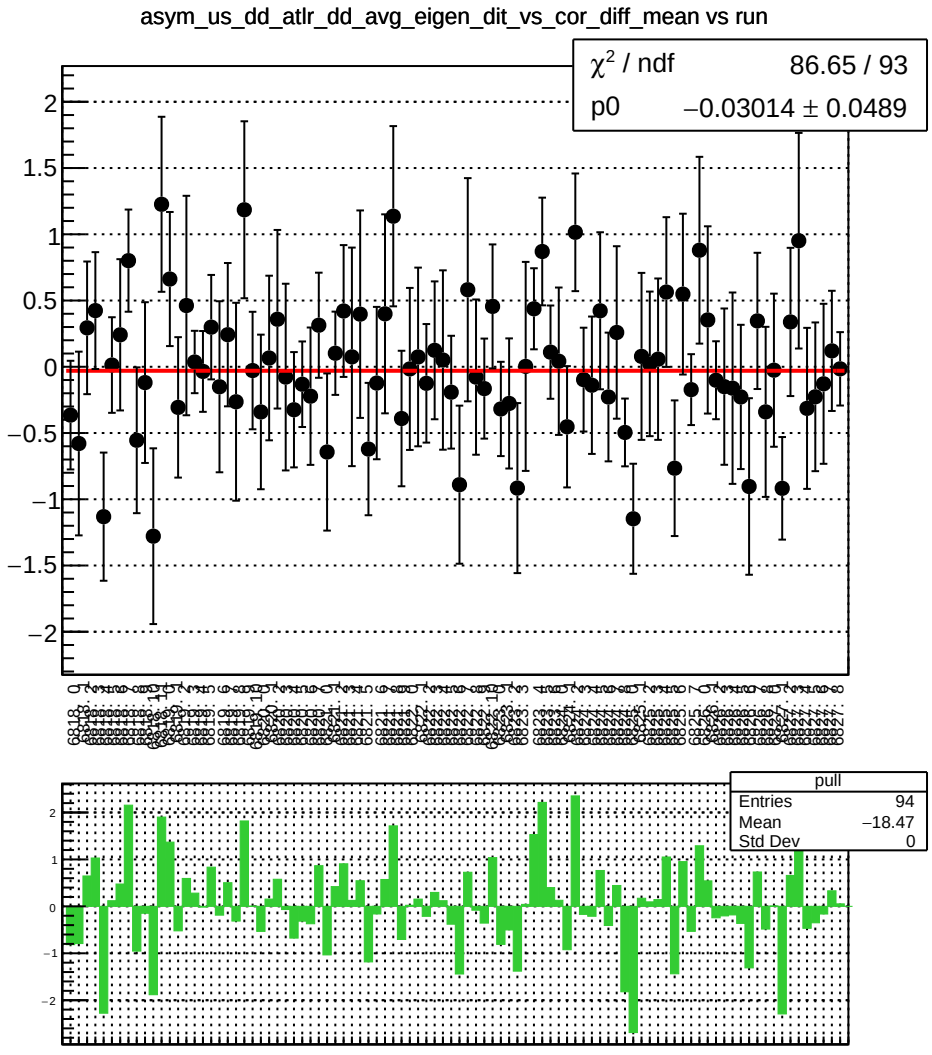

pull1D
Entries 94
Mean 0.02906
Std Dev 0.9597

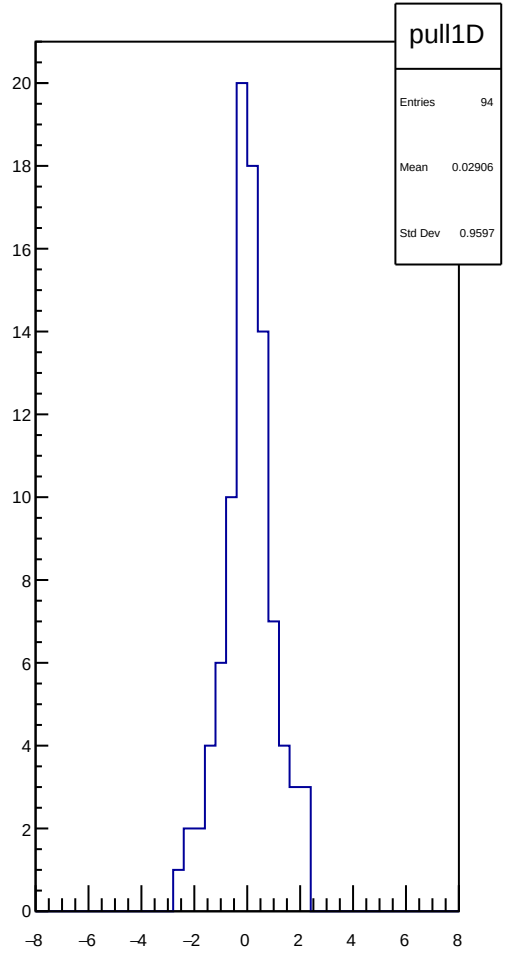

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.431e+05 / 93
p0 44.44 ± 0.03458
80
70
60
50
40
30
20

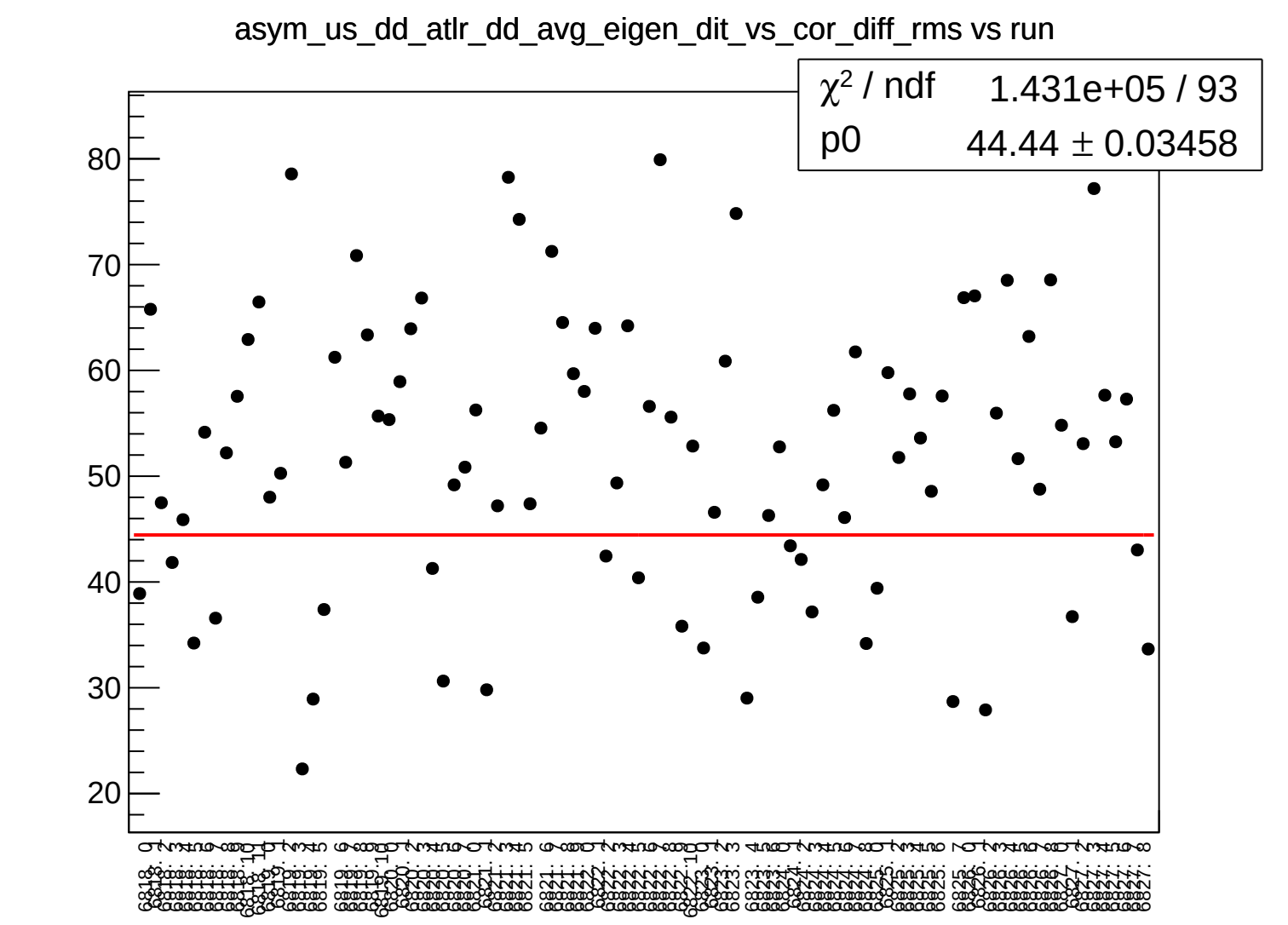

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.91 / 93
p0 −9.056e−07 ± 4.525e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean 529.6
Std Dev 0
3
2
1
0
−1
−2

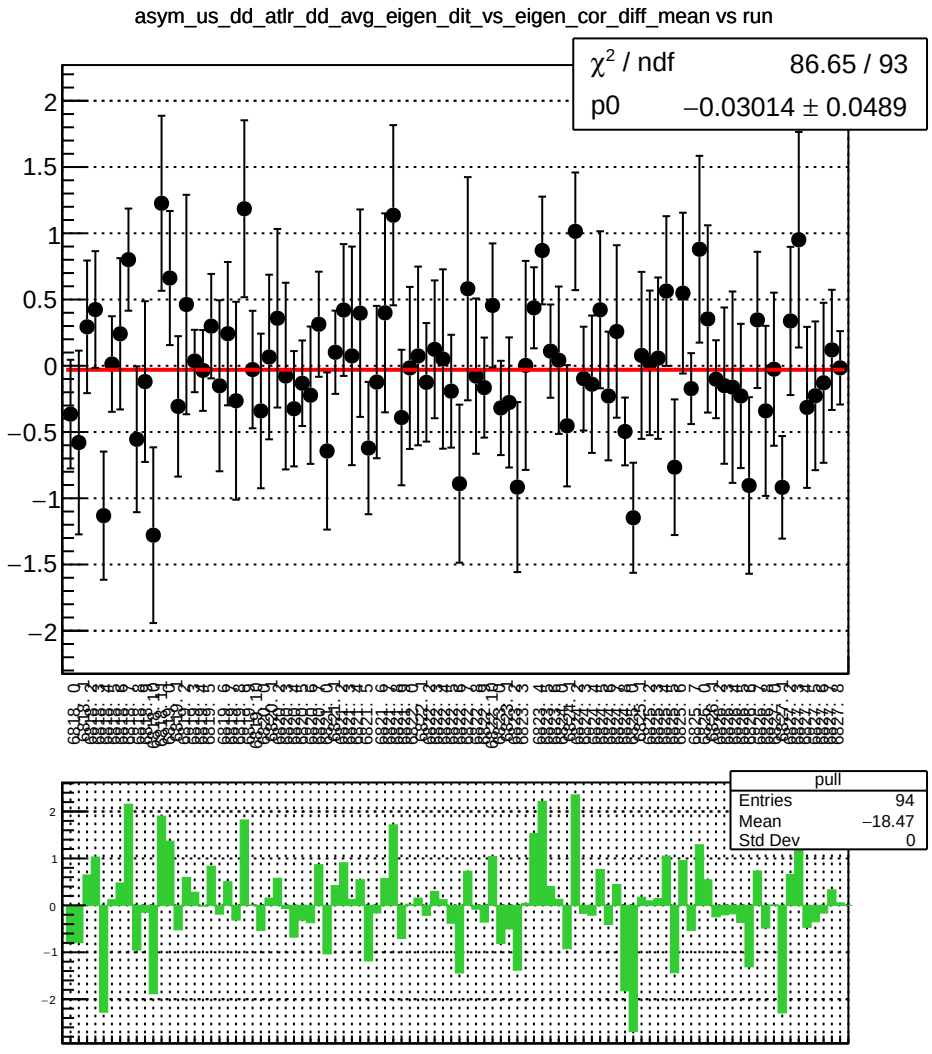

pull1D
Entries 94
Mean −0.001701
Std Dev 0.9671
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

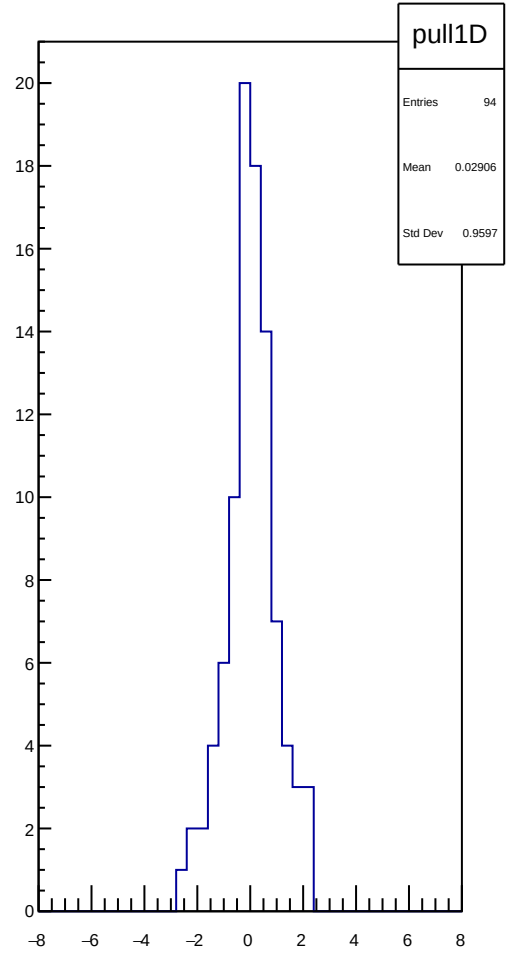

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4427 / 93
p0 0.004282 ± 3.2e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

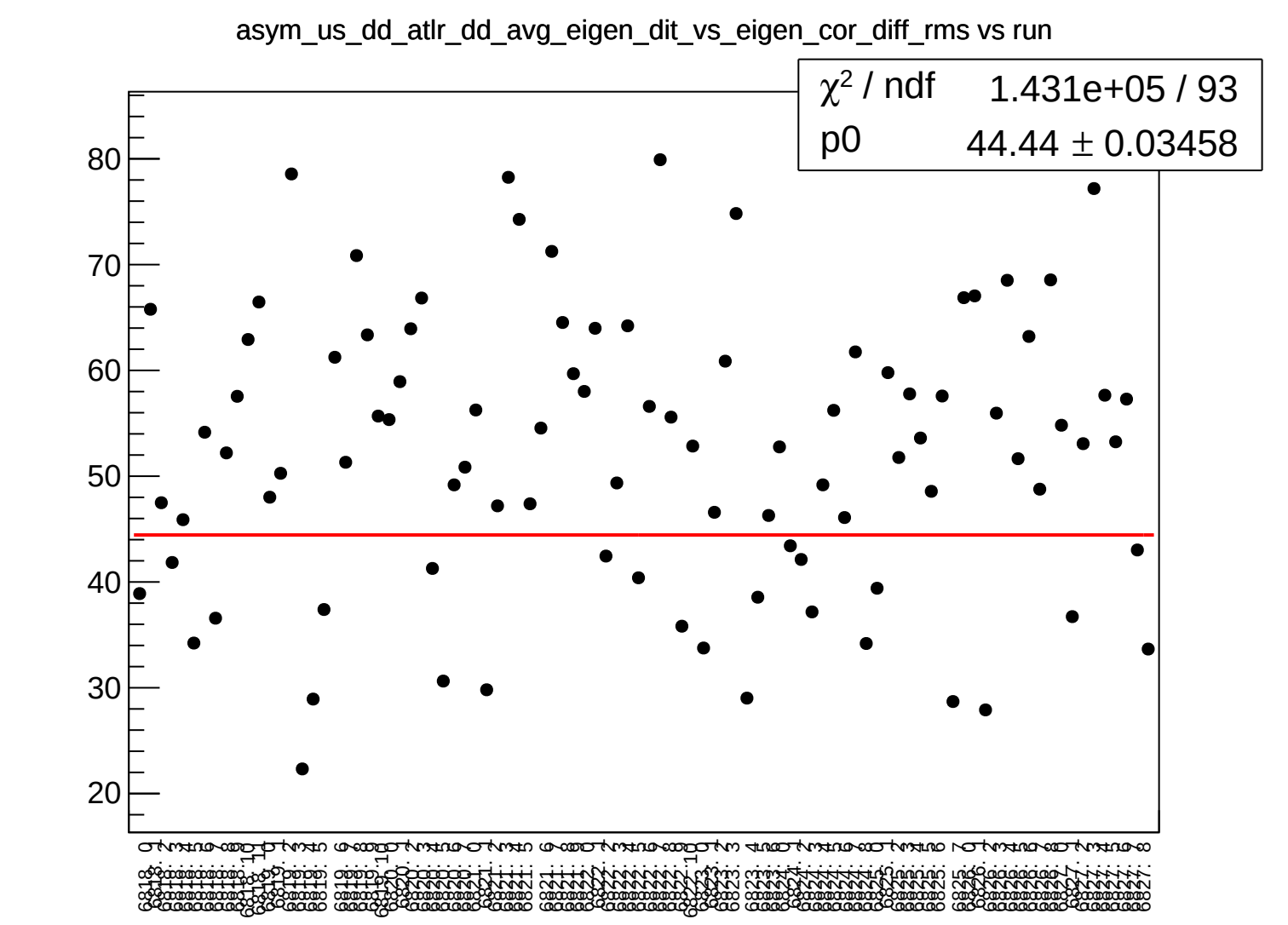

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 93
p0 −0.03014 ± 0.0489
pull
Entries 94
Mean −18.47
Std Dev 0

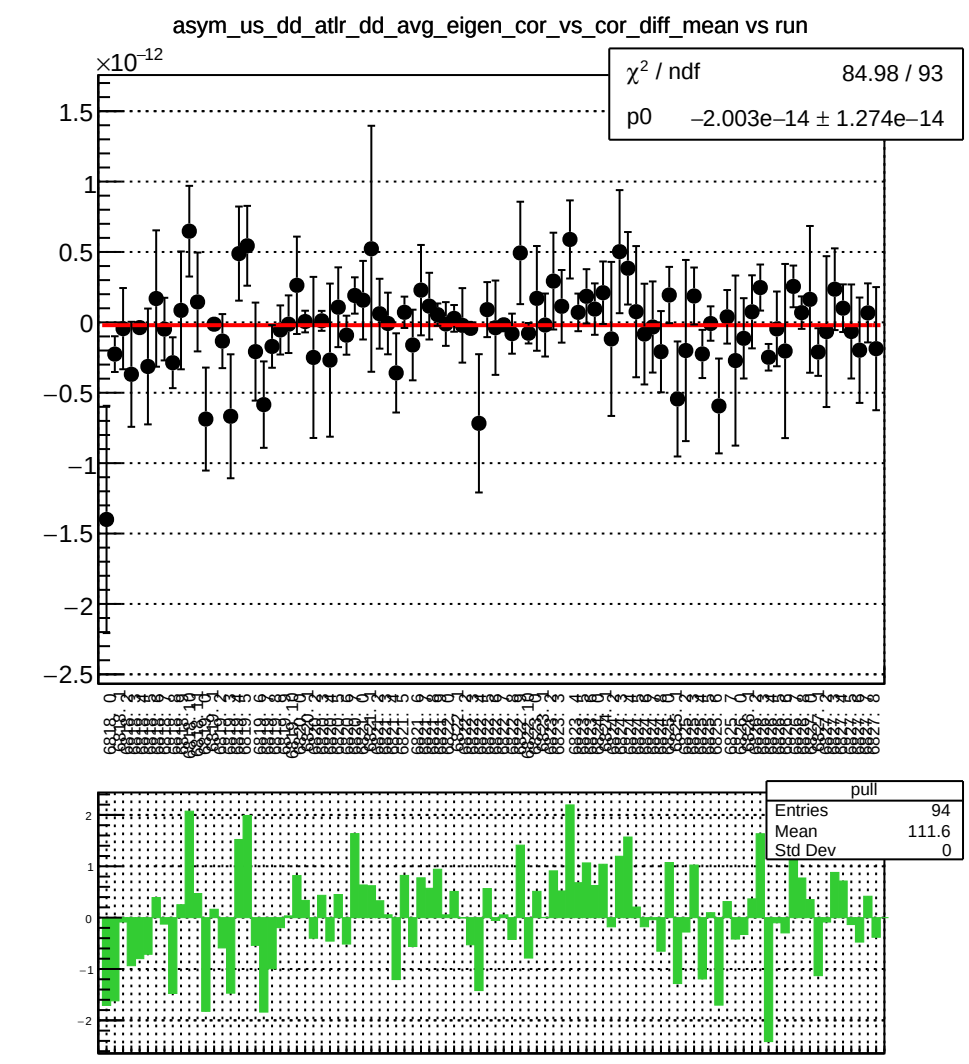

pull1D
Entries 94
Mean 0.02906
Std Dev 0.9597

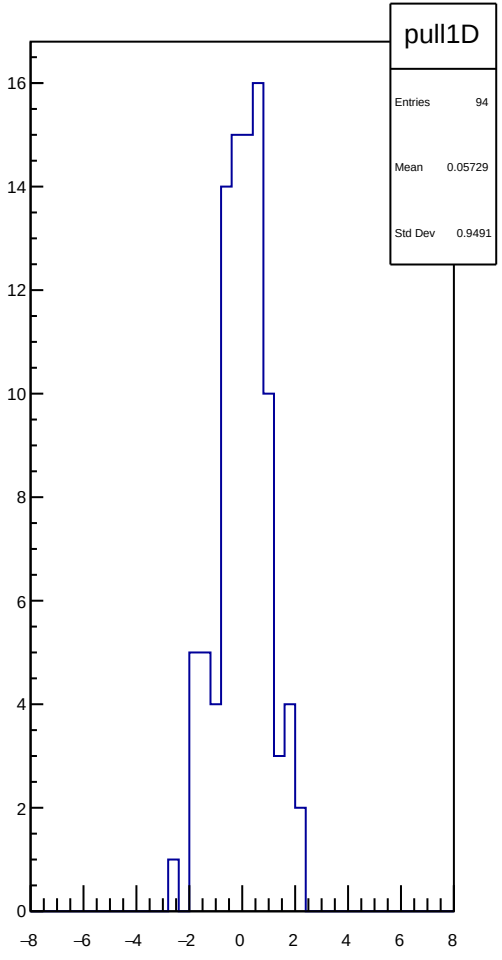

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.431e+05 / 93
p0 44.44 ± 0.03458
80
70
60
50
40
30
20

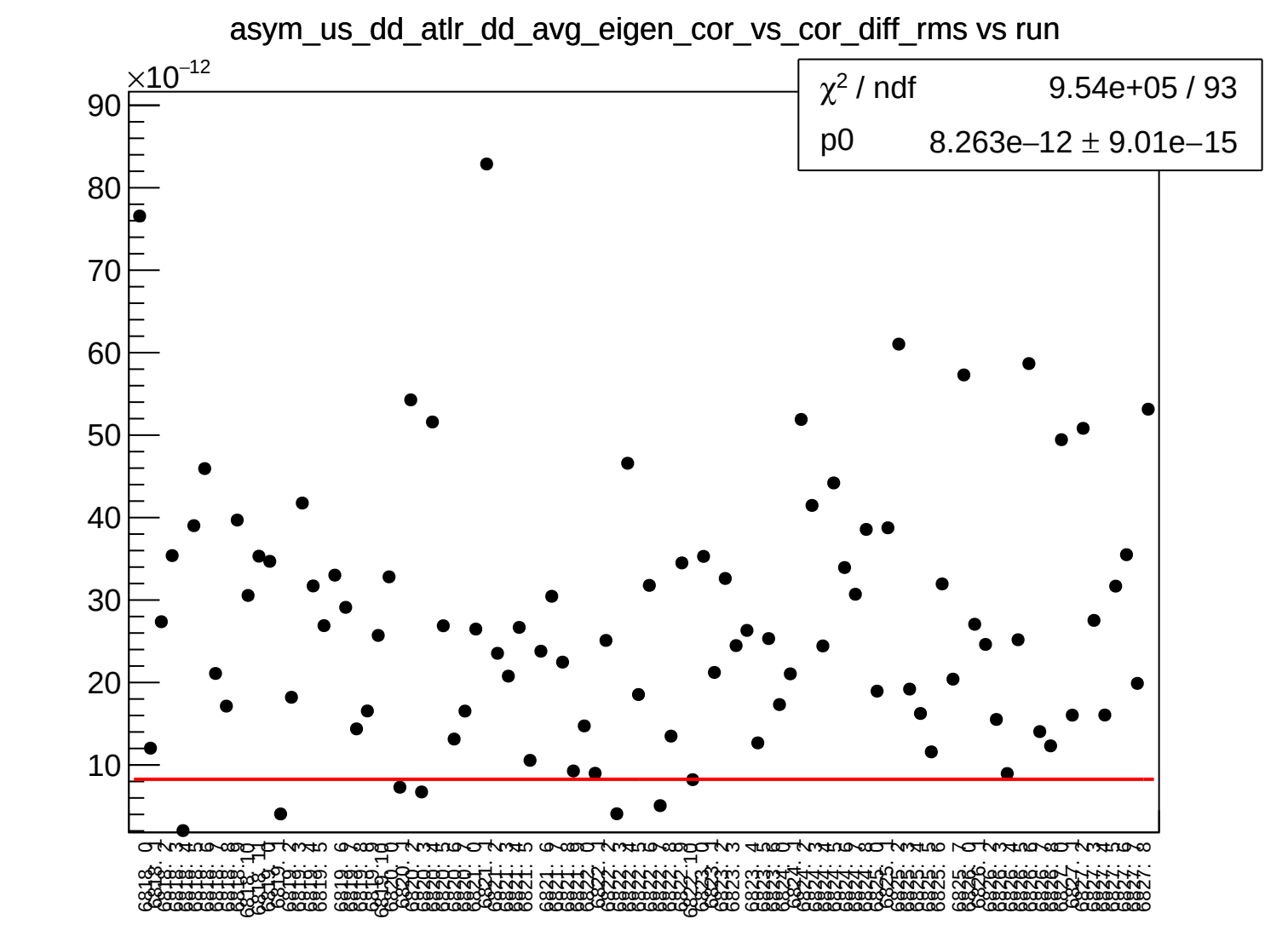

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 93
p0 −0.03014 ± 0.0489
pull
Entries 94
Mean −18.47
Std Dev 0

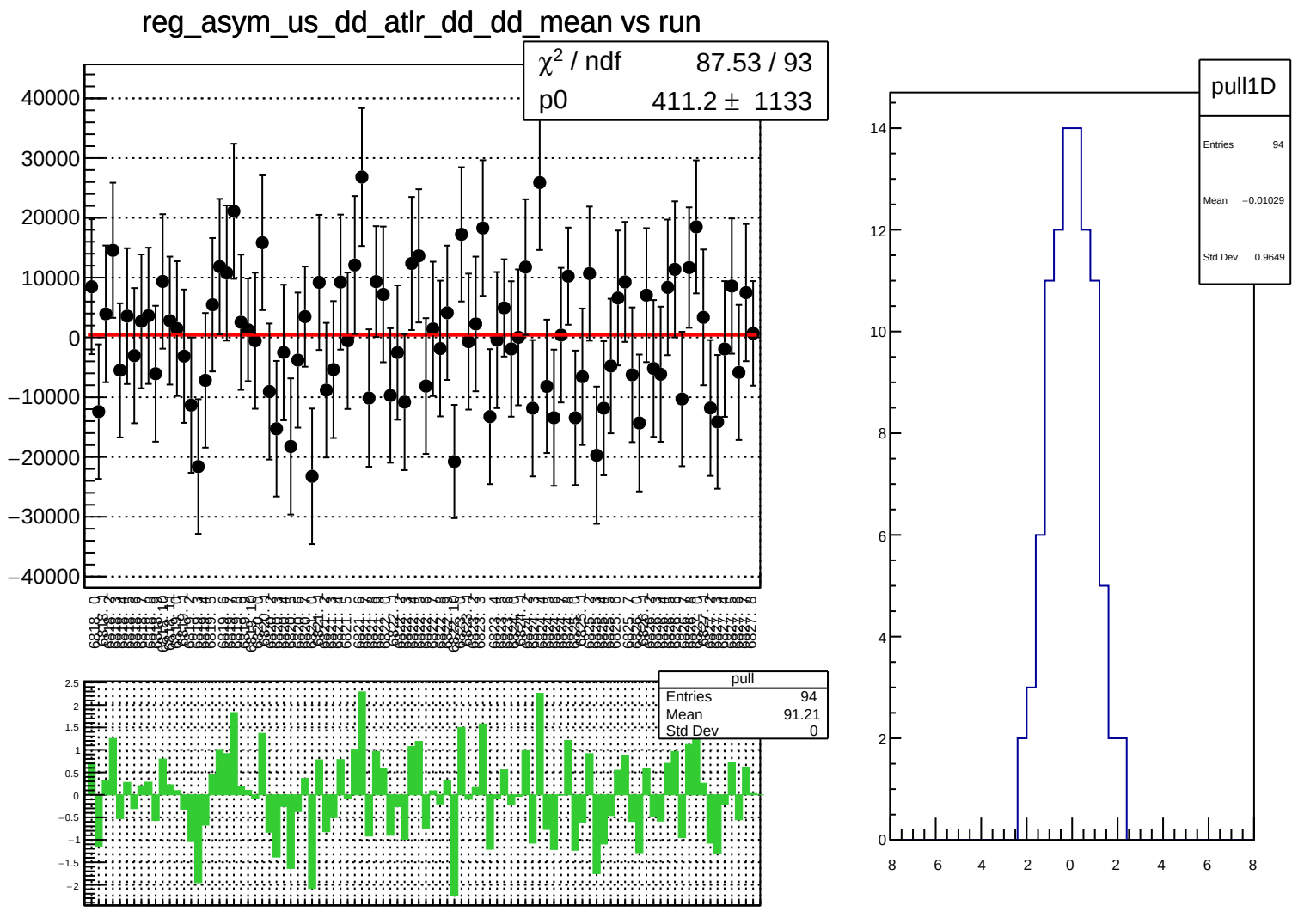

pull1D
Entries 94
Mean 0.02906
Std Dev 0.9597

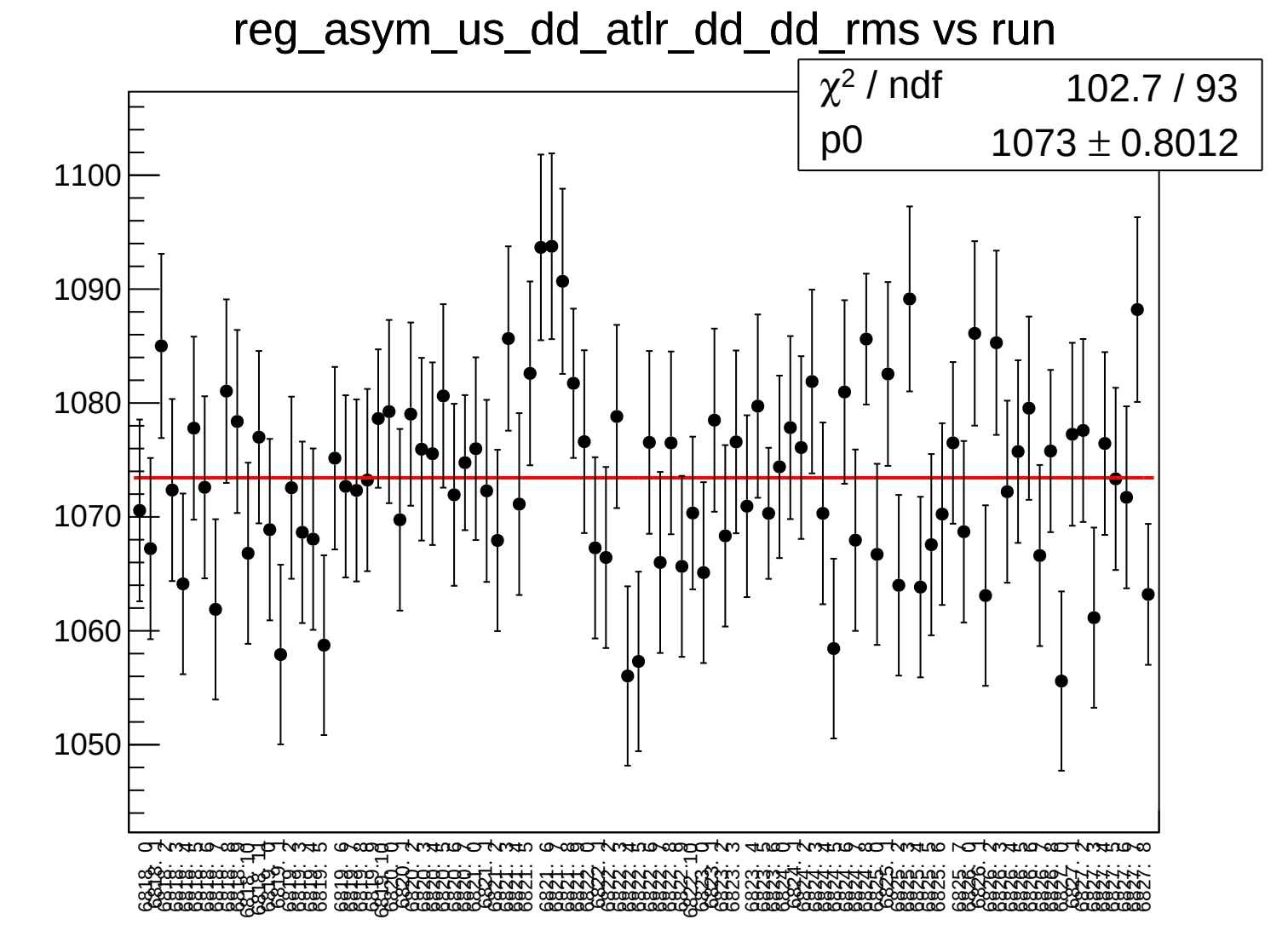

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.431e+05 / 93
p0 44.44 ± 0.03458
80
70
60
50
40
30
20

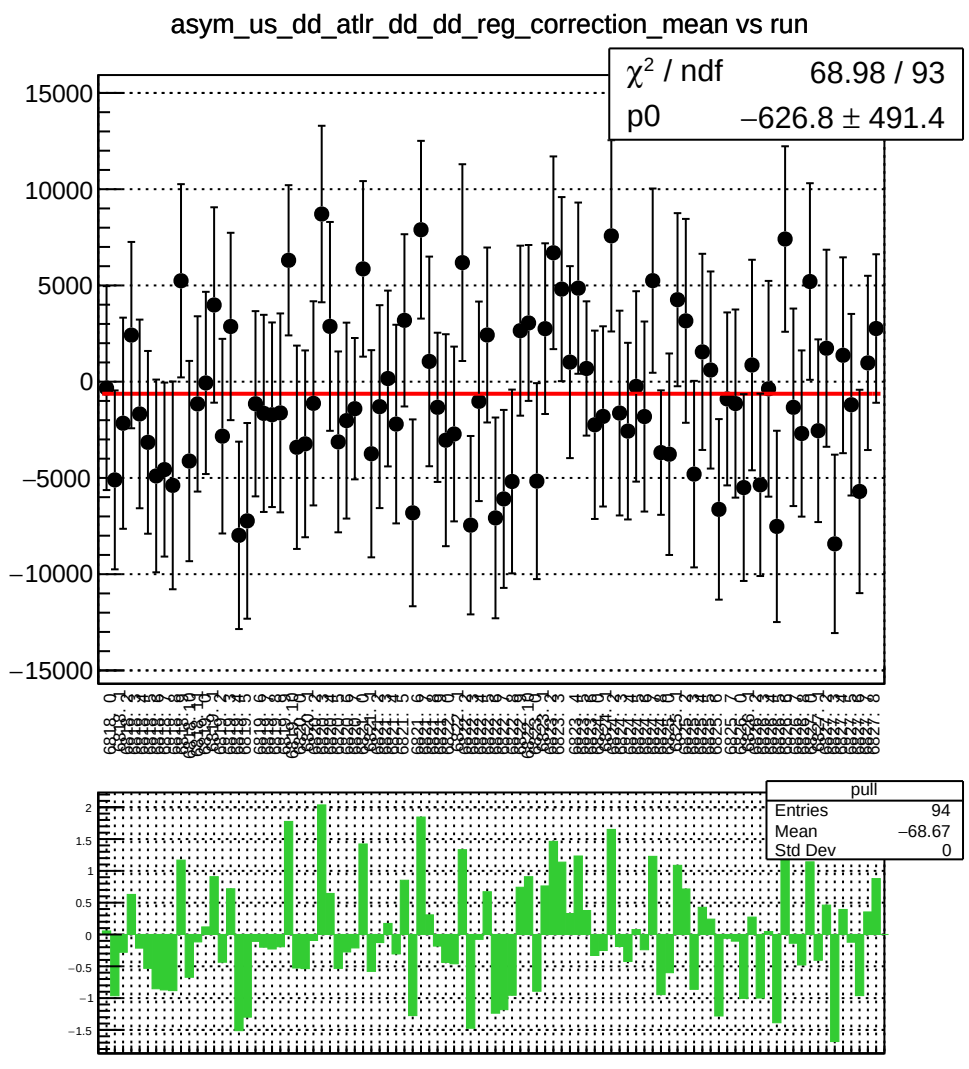

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.98 / 93
p0 −2.003e−14 ± 1.274e−14
pull
Entries 94
Mean 111.6
Std Dev 0

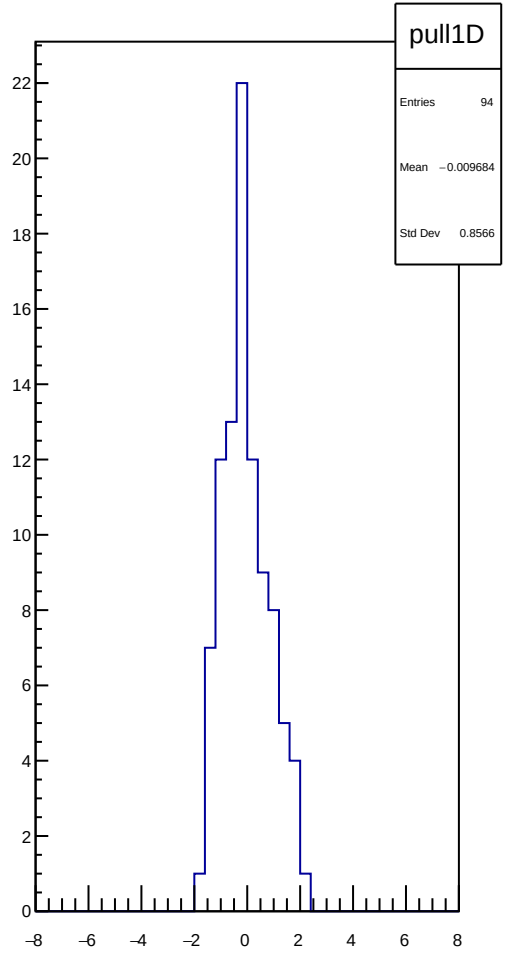

pull1D
Entries 94
Mean 0.05729
Std Dev 0.9491

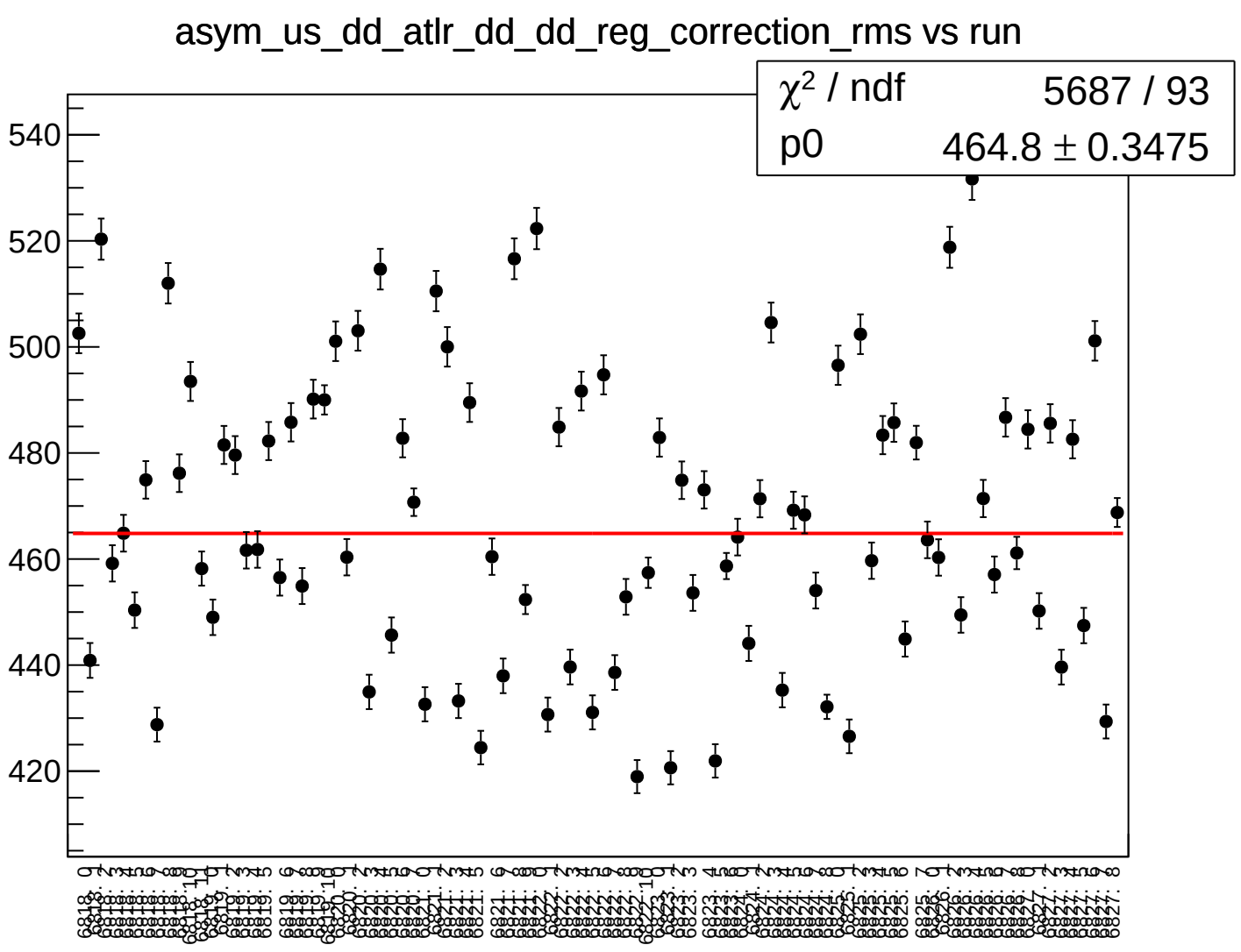

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.54e+05 / 93
p0 8.263e−12 ± 9.01e−15
90
80
70
60
50
40
30
20
10

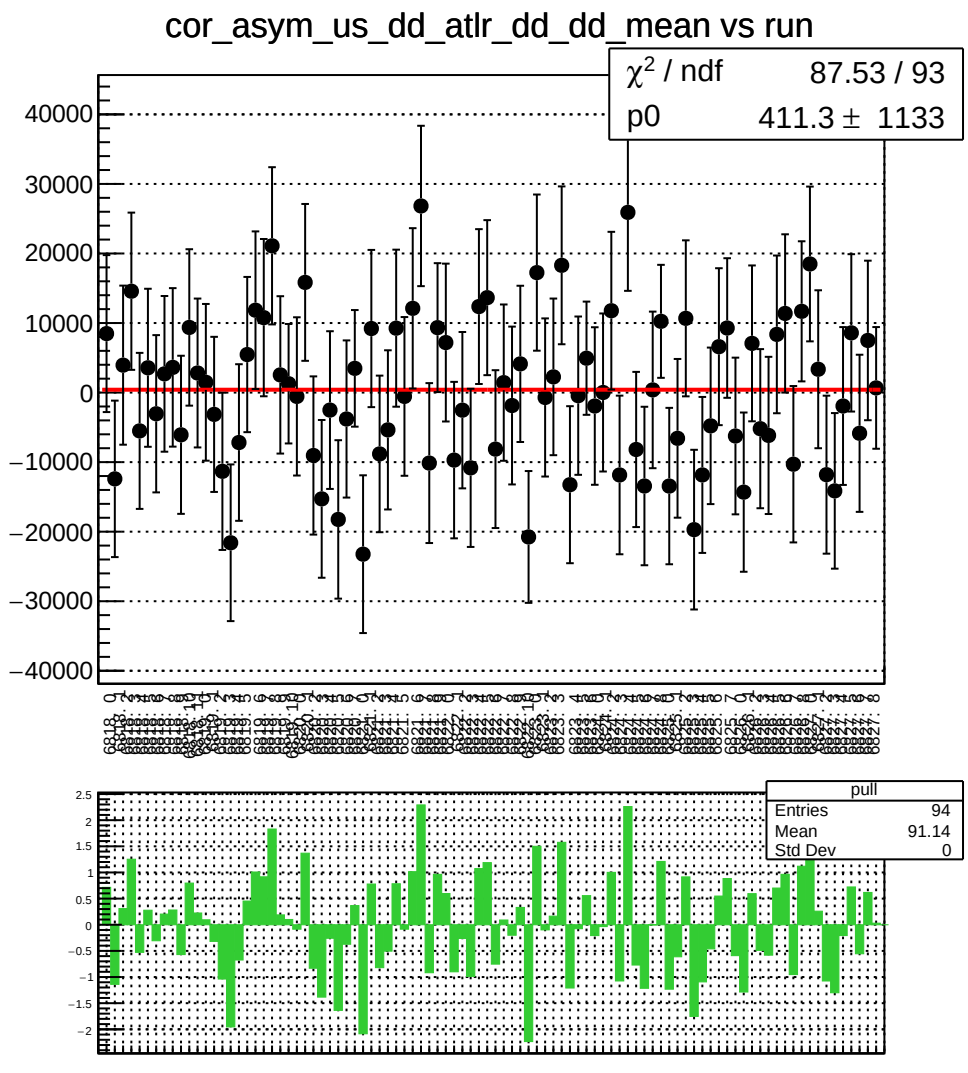

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.53 / 93
p0 411.2 ± 1133
pull
Entries 94
Mean 91.21
Std Dev 0
pull1D
Entries 94
Mean −0.01029
Std Dev 0.9649

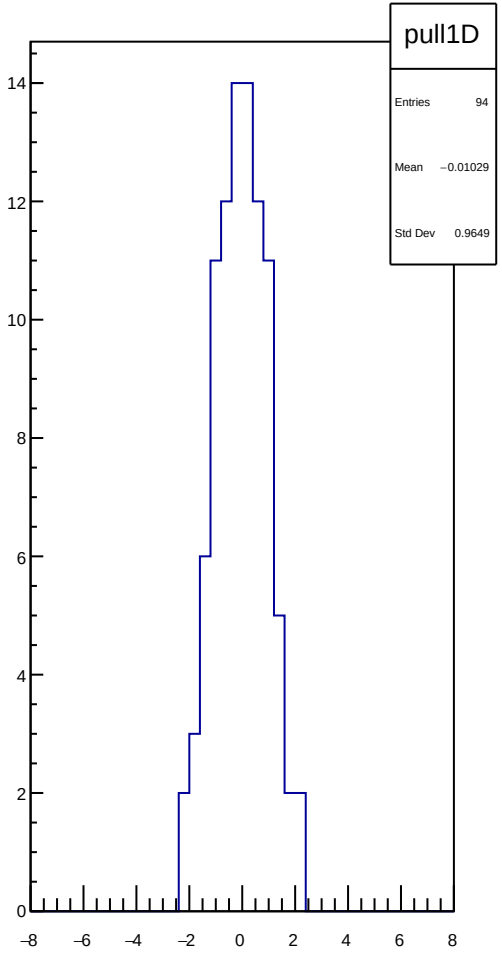

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 102.7 / 93
p0 1073 ± 0.8012
1100
1090
1080
1070
1060
1050

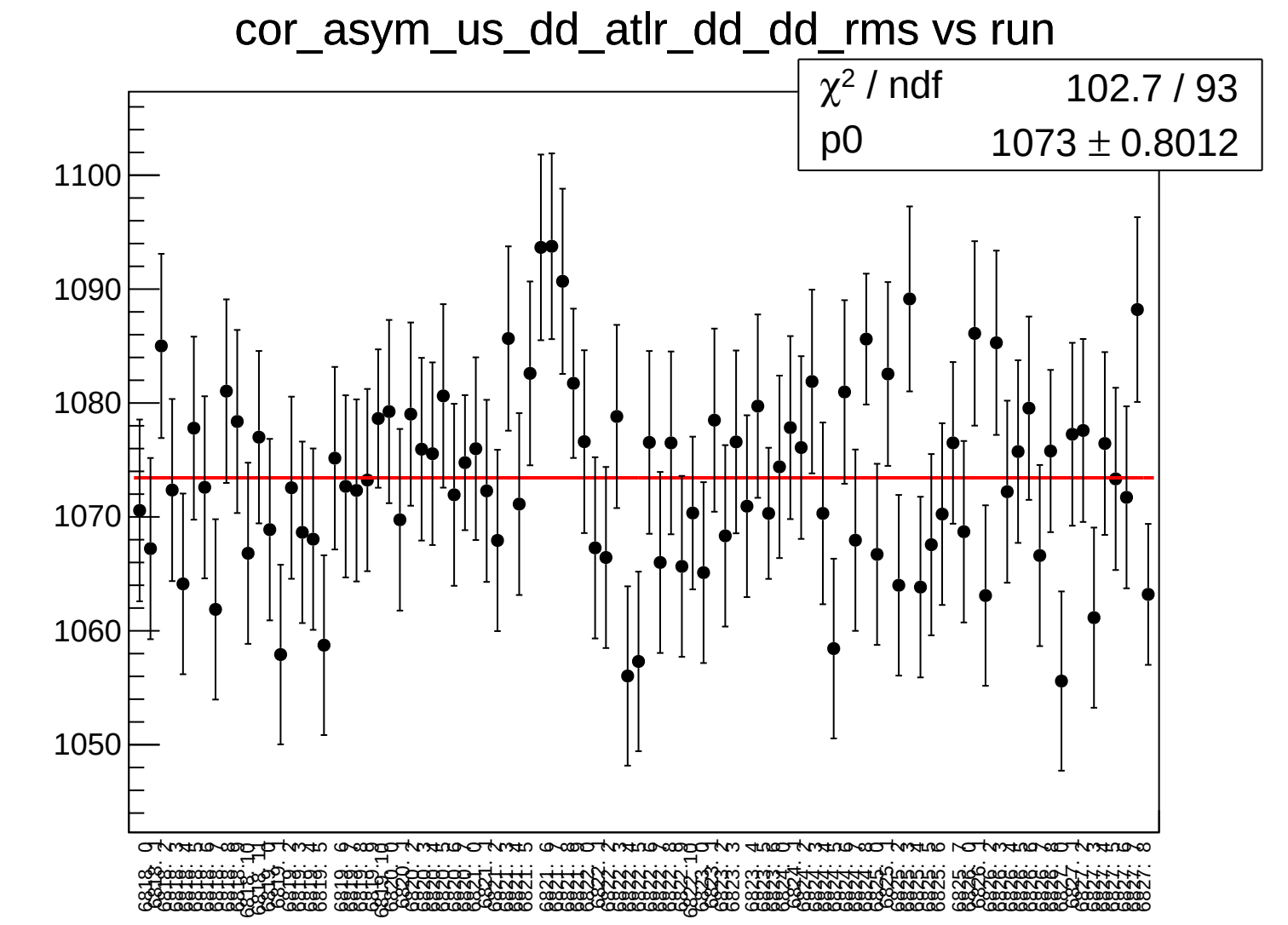

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 68.98 / 93
p0 −626.8 ± 491.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −68.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

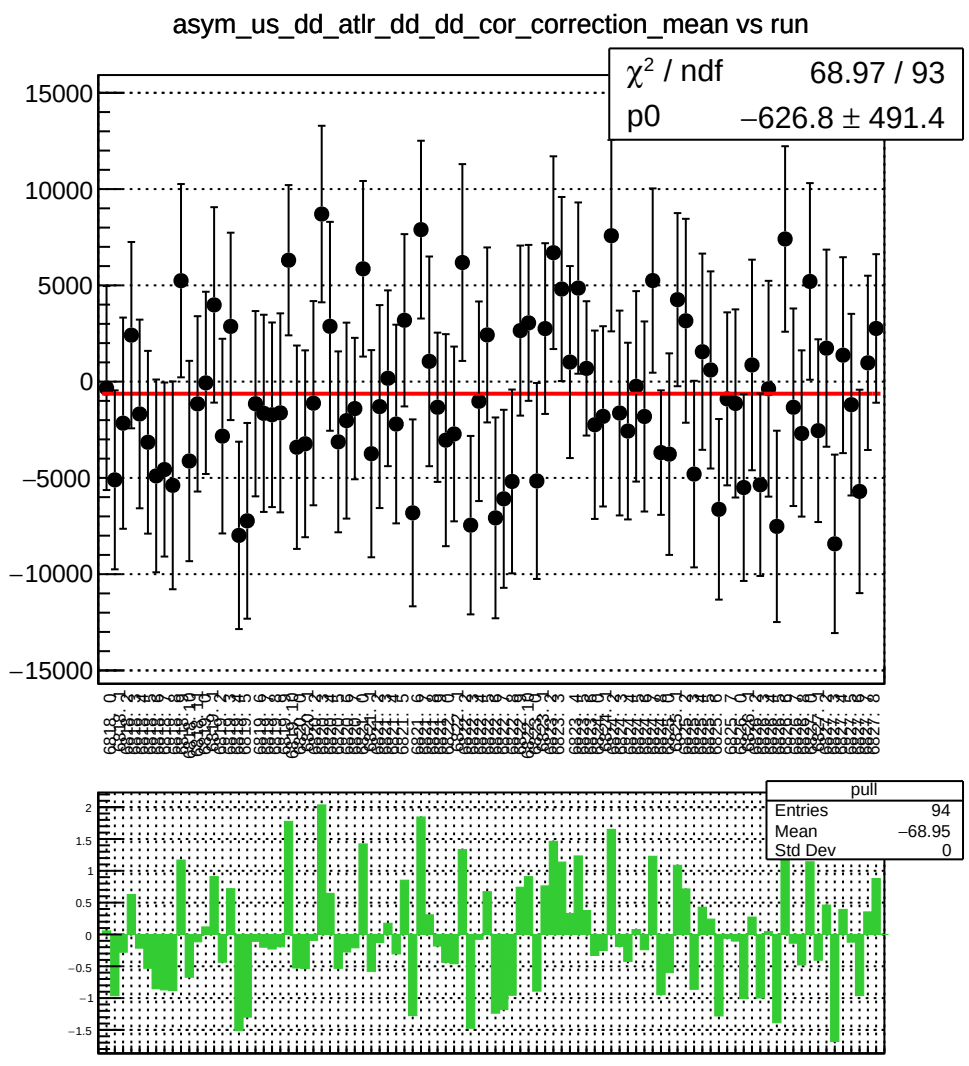

pull1D
Entries 94
Mean −0.009684
Std Dev 0.8566
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

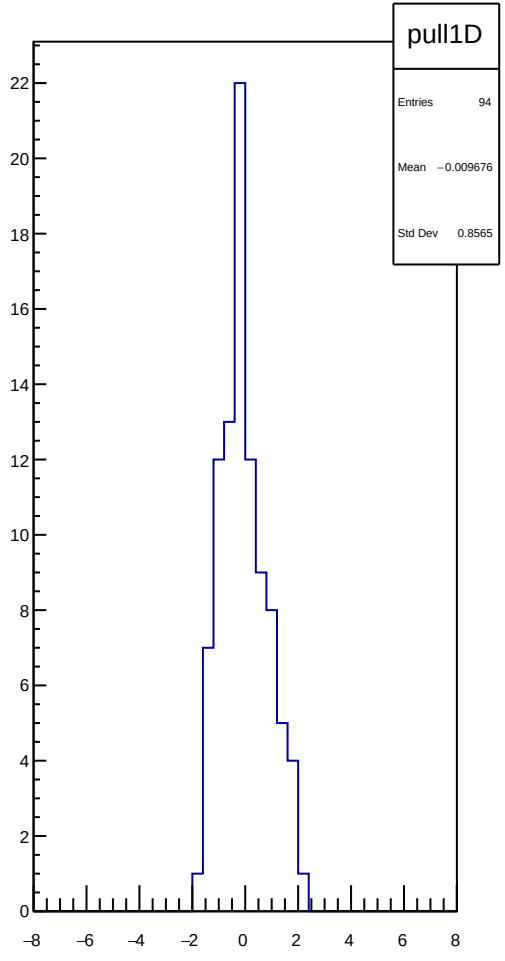

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 5687 / 93
p0 464.8 ± 0.3475
540
520
500
480
460
440
420

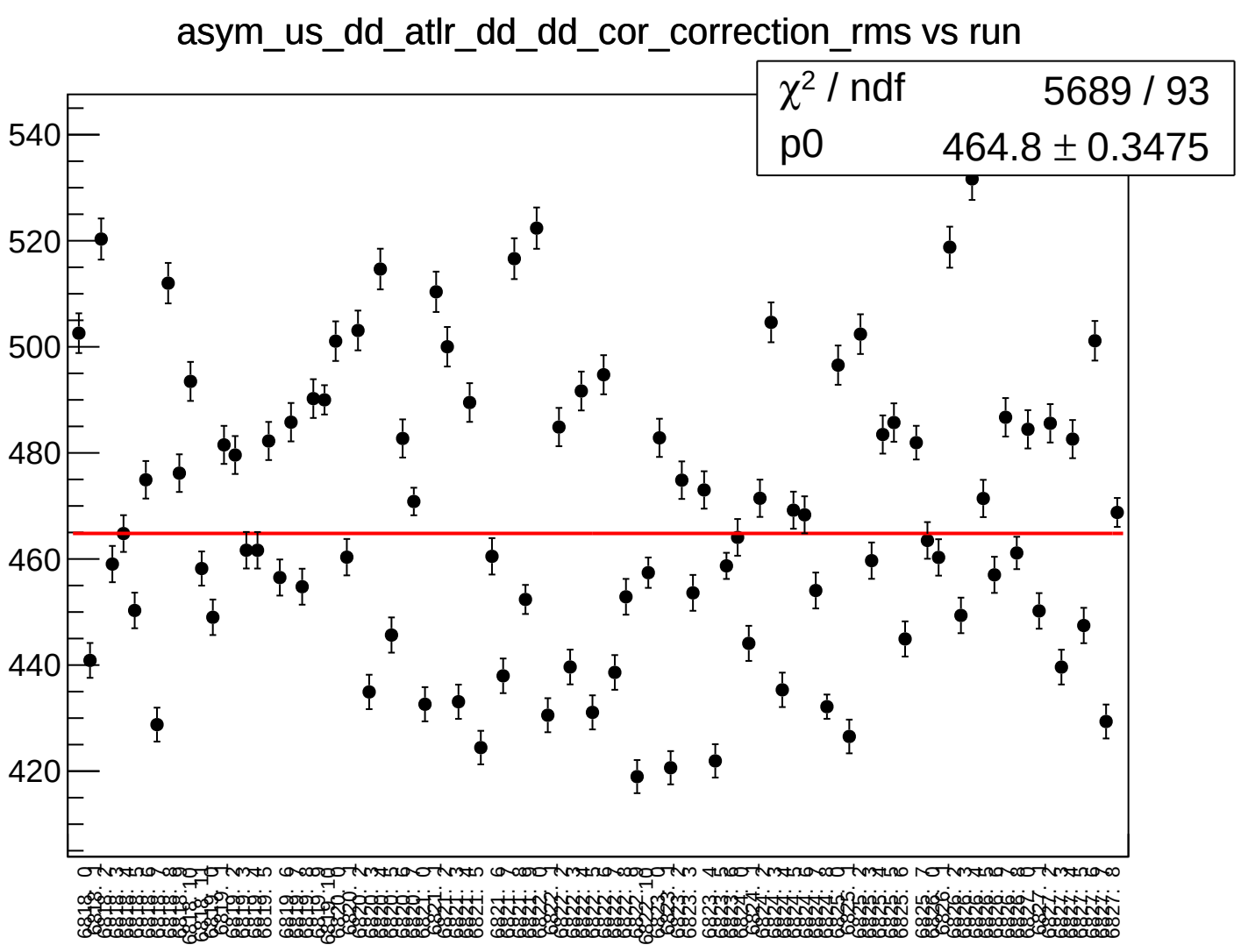

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.53 / 93
p0 411.3 ± 1133
pull
Entries 94
Mean 91.14
Std Dev 0

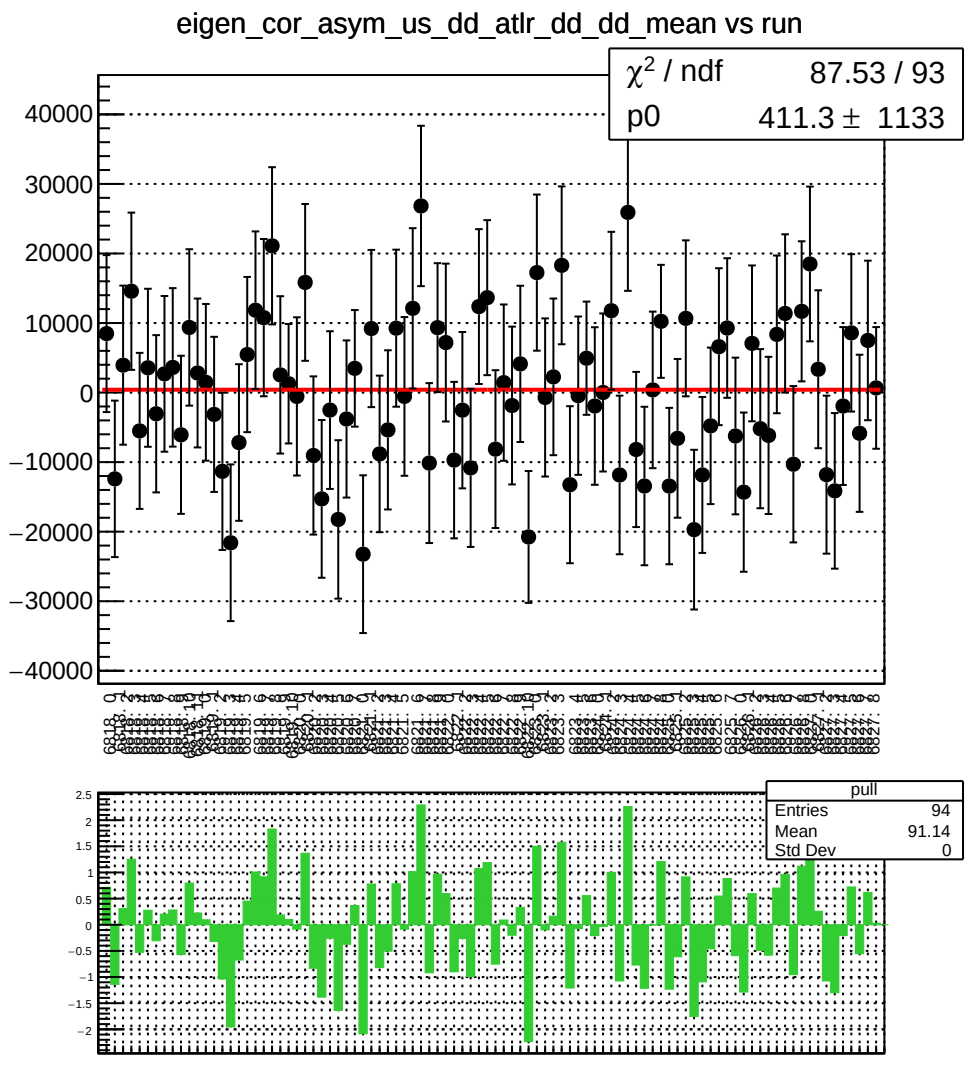

pull1D
Entries 94
Mean −0.01029
Std Dev 0.9649

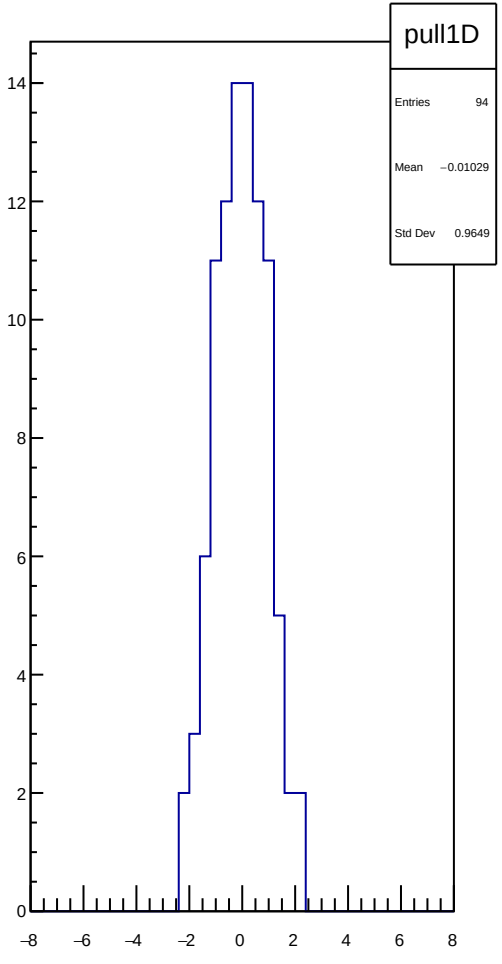

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 102.7 / 93
p0 1073 ± 0.8012
1100
1090
1080
1070
1060
1050

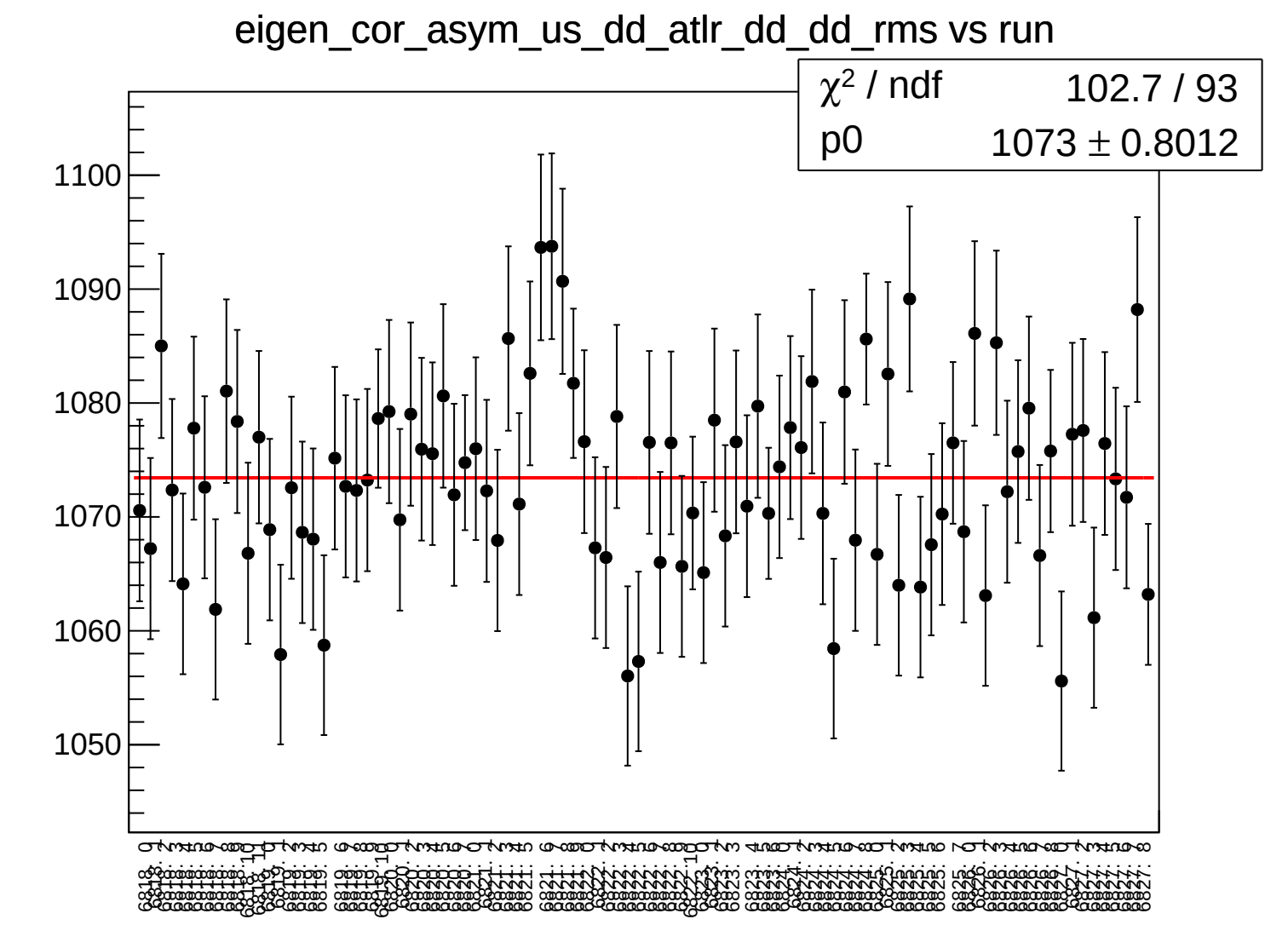

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 68.97 / 93
p0 −626.8 ± 491.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −68.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

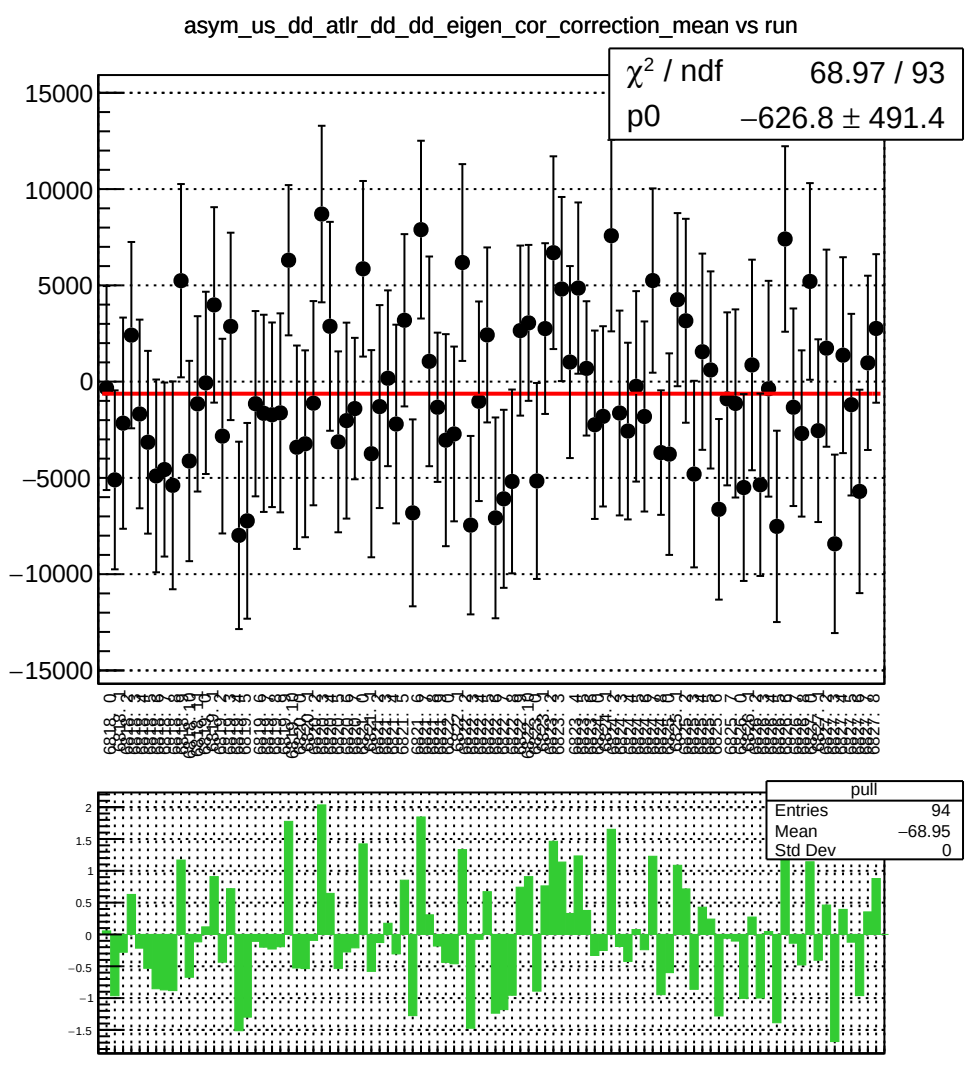

pull1D
Entries 94
Mean −0.009676
Std Dev 0.8565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

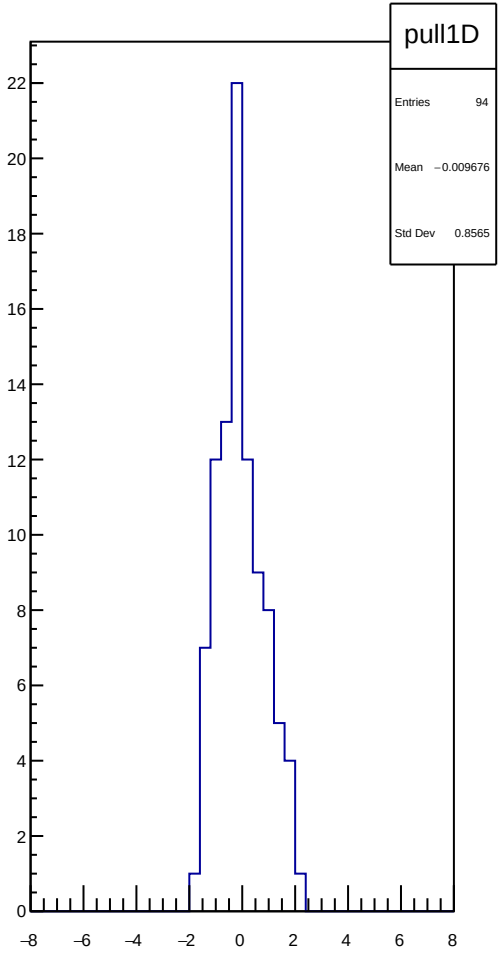

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 5689 / 93
p0 464.8 ± 0.3475
540
520
500
480
460
440
420

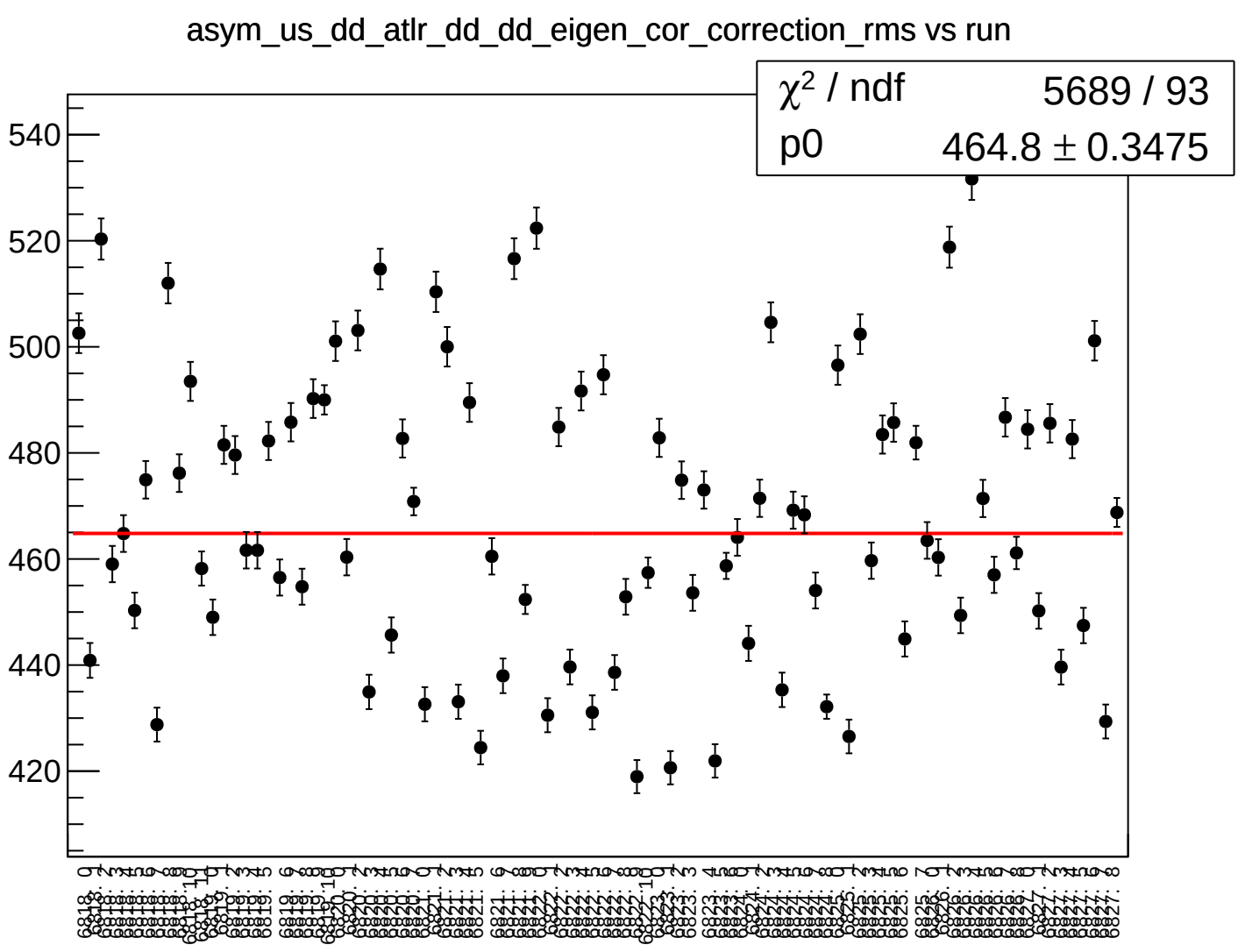

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.53 / 93
p0 411.3 ± 1133
pull
Entries 94
Mean 91.14
Std Dev 0

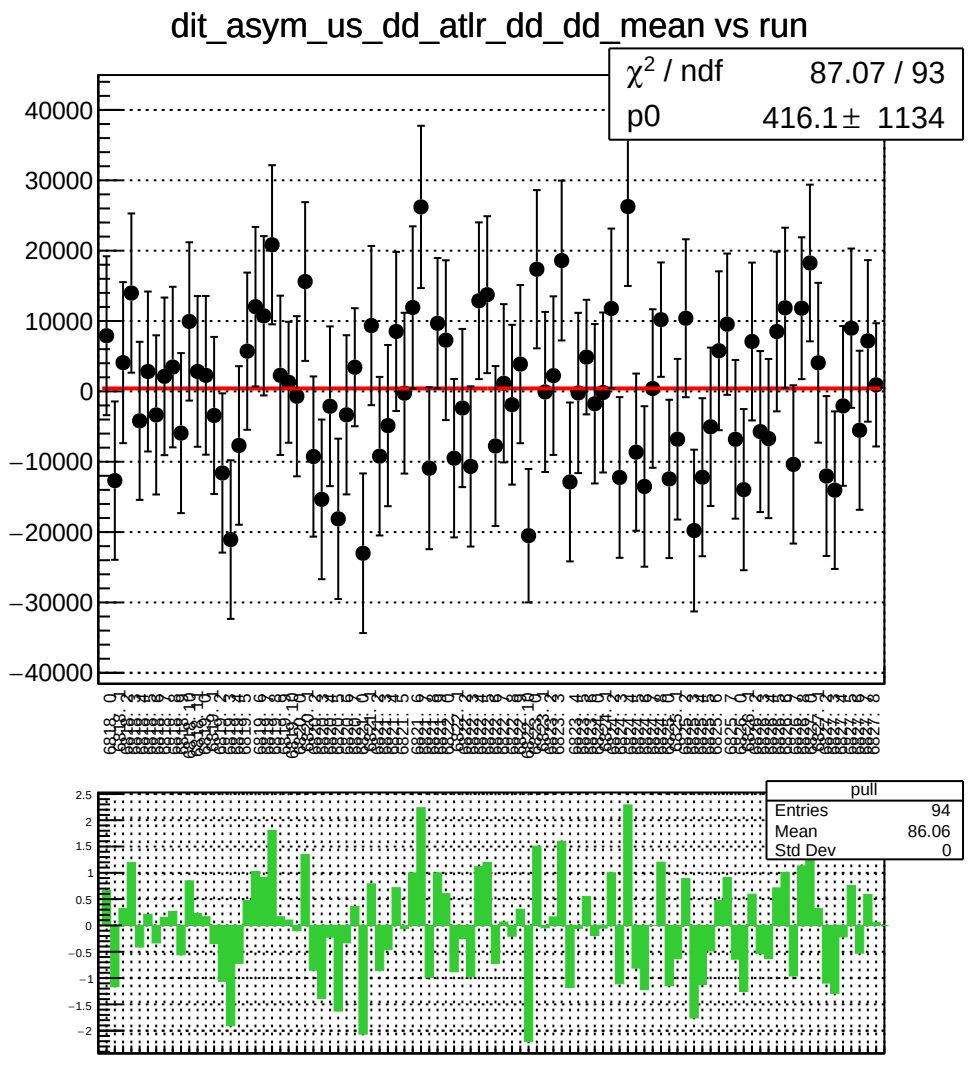

pull1D
Entries 94
Mean −0.01029
Std Dev 0.9649

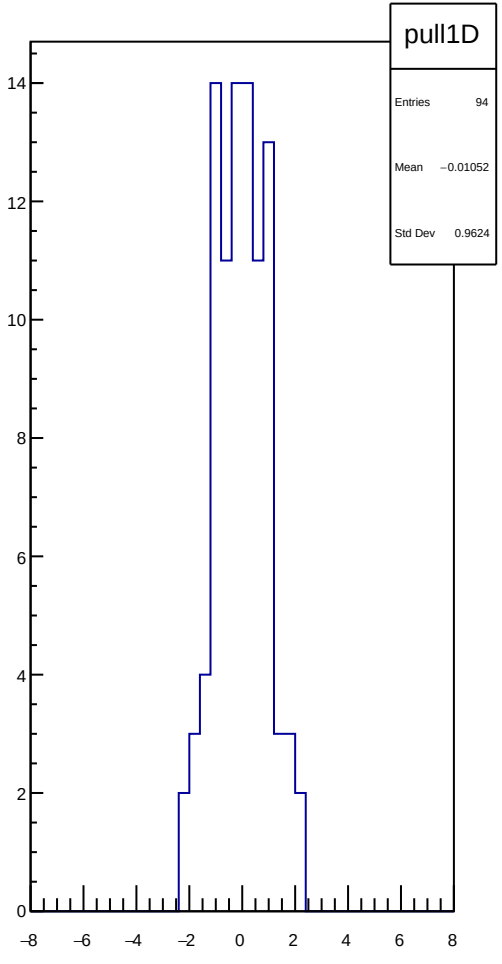

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 102.7 / 93
p0 1073 ± 0.8012
1100
1090
1080
1070
1060
1050

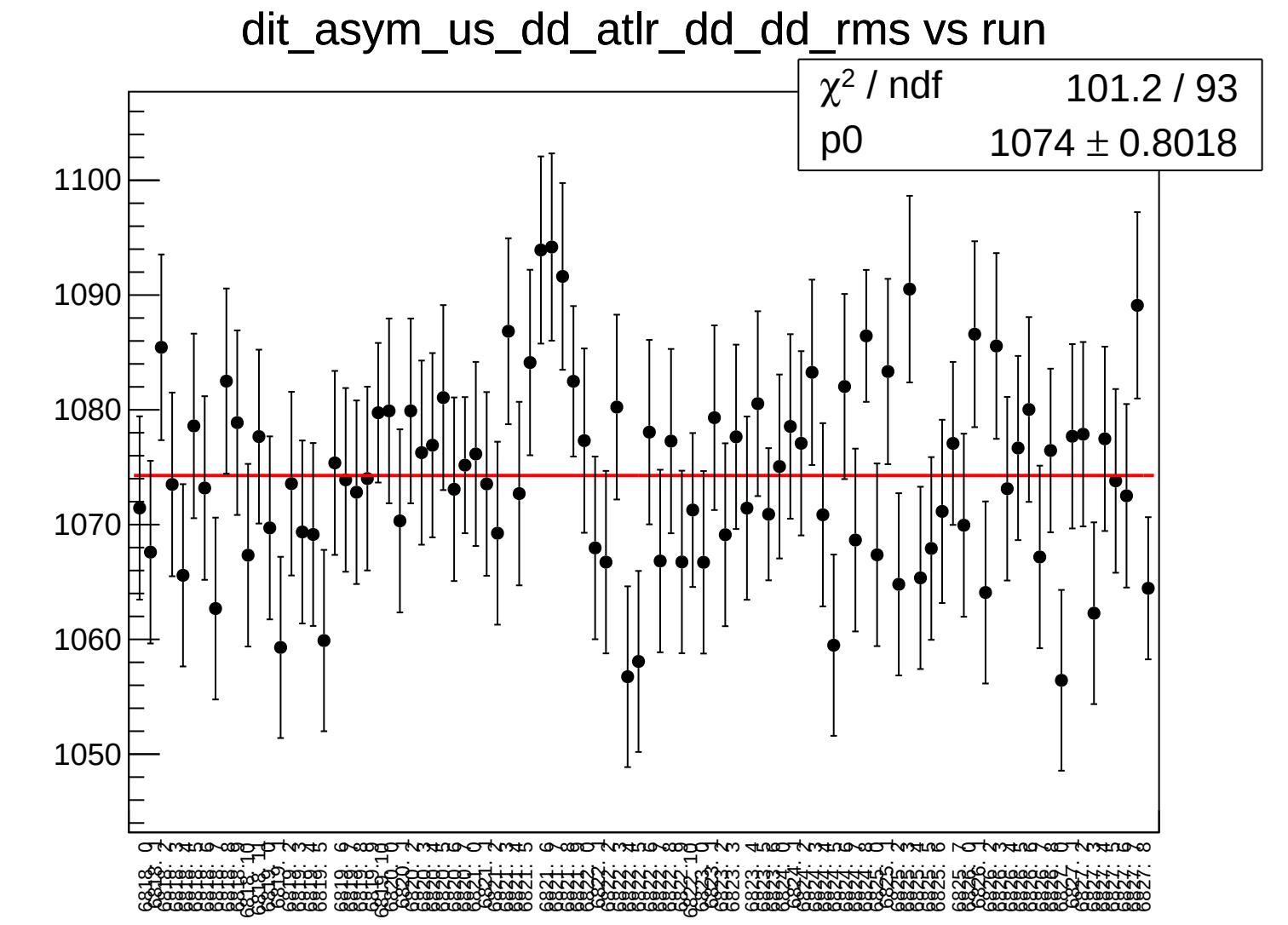

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.97 / 93
p0 −626.8 ± 491.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −68.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

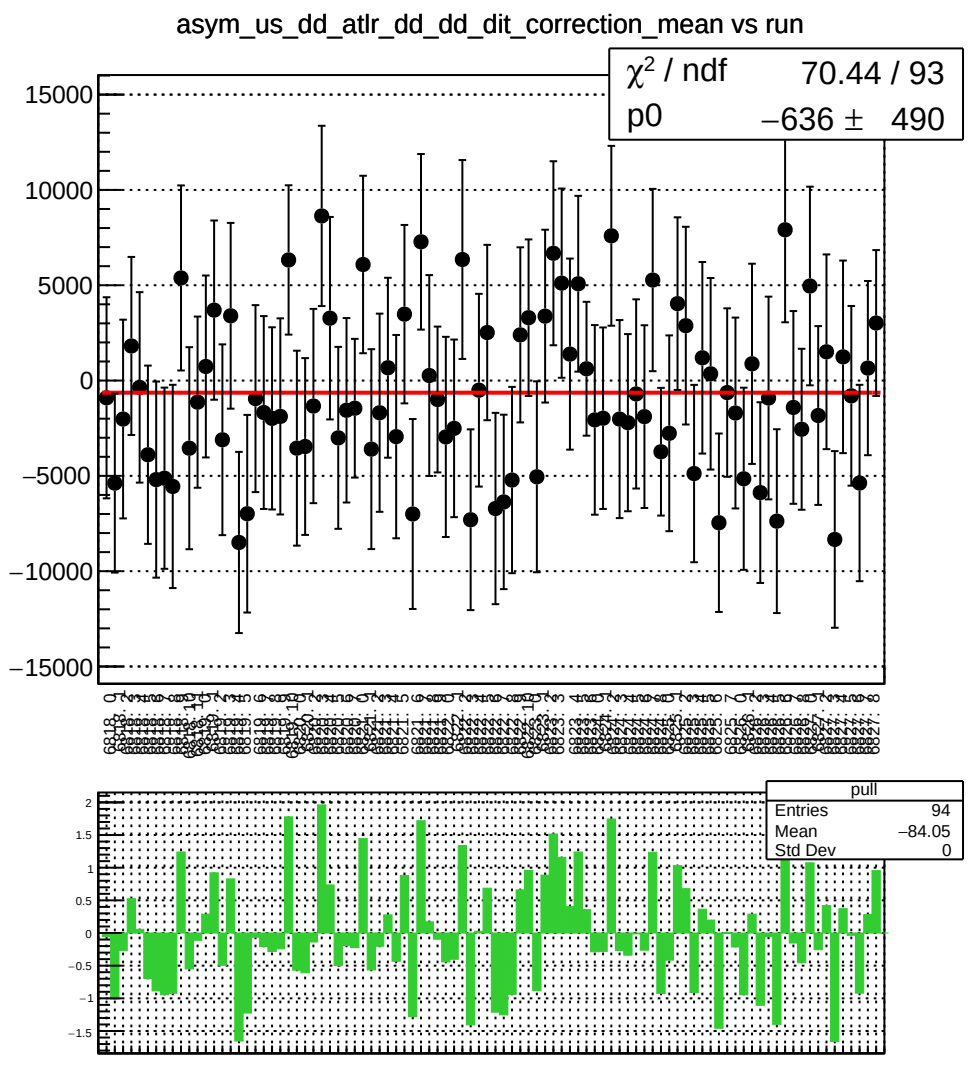

pull1D
Entries 94
Mean −0.009676
Std Dev 0.8565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

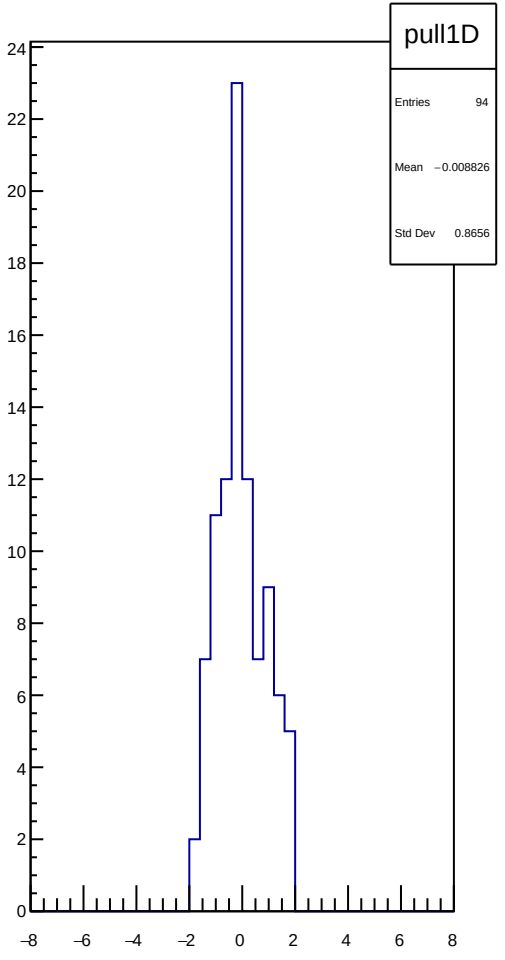

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5689 / 93
p0 464.8 ± 0.3475
540
520
500
480
460
440
420

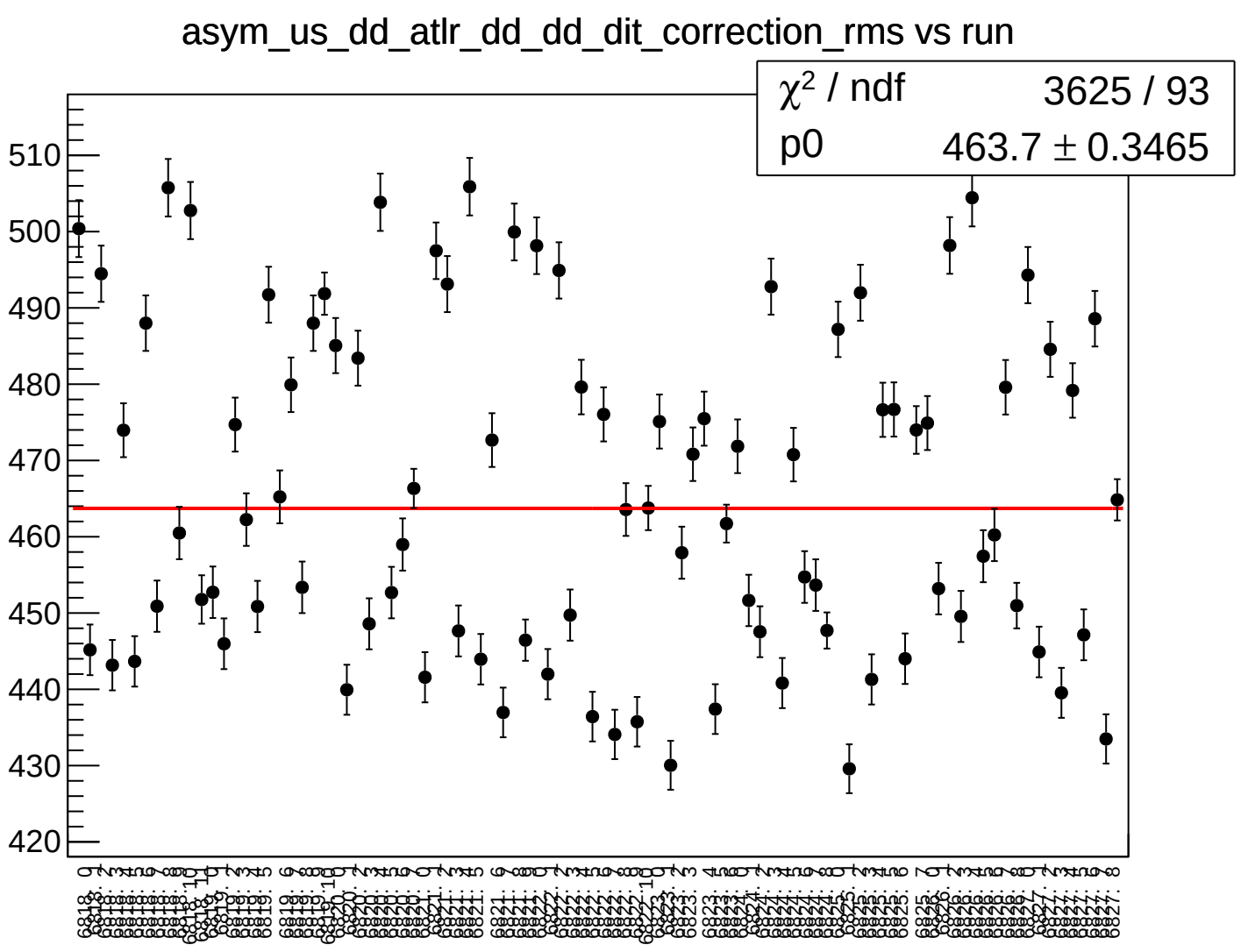

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.07 / 93
p0 416.1 ± 1134
pull
Entries 94
Mean 86.06
Std Dev 0

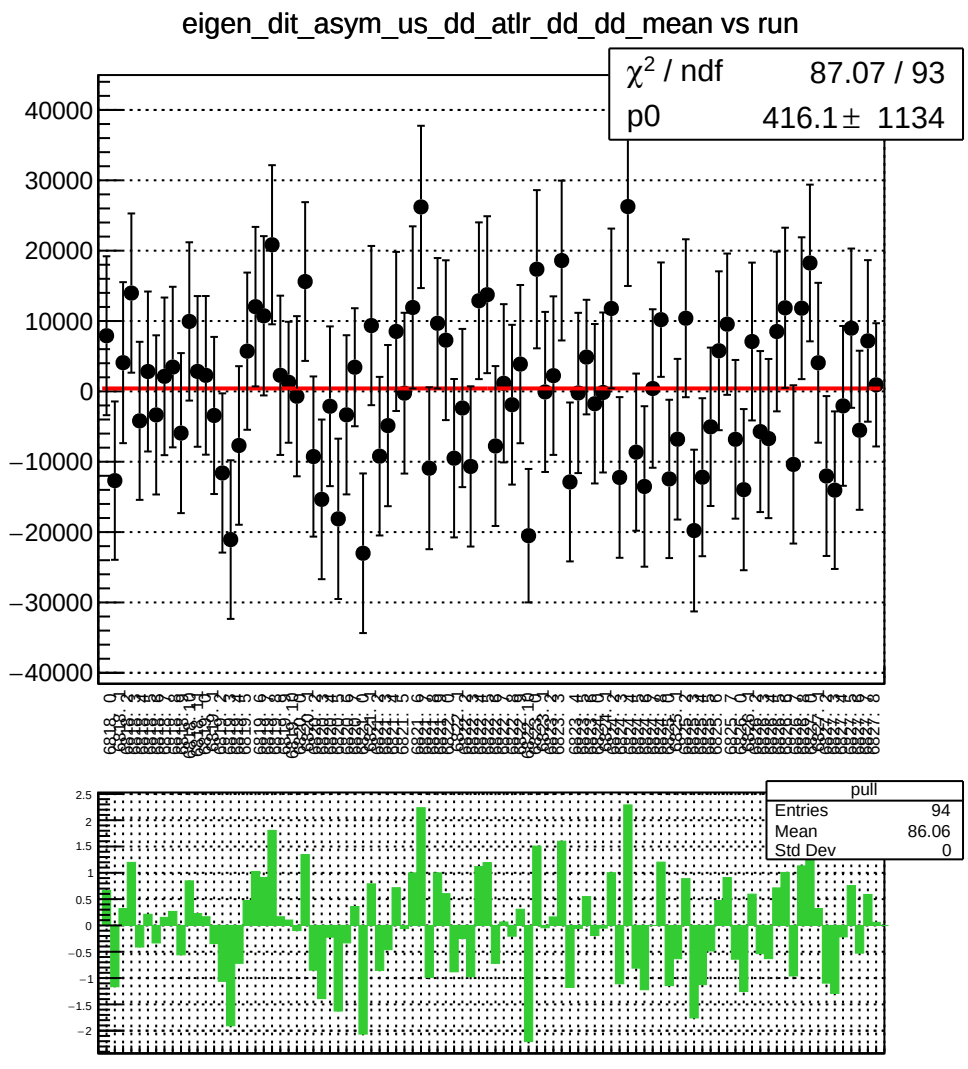

pull1D
Entries 94
Mean −0.01052
Std Dev 0.9624

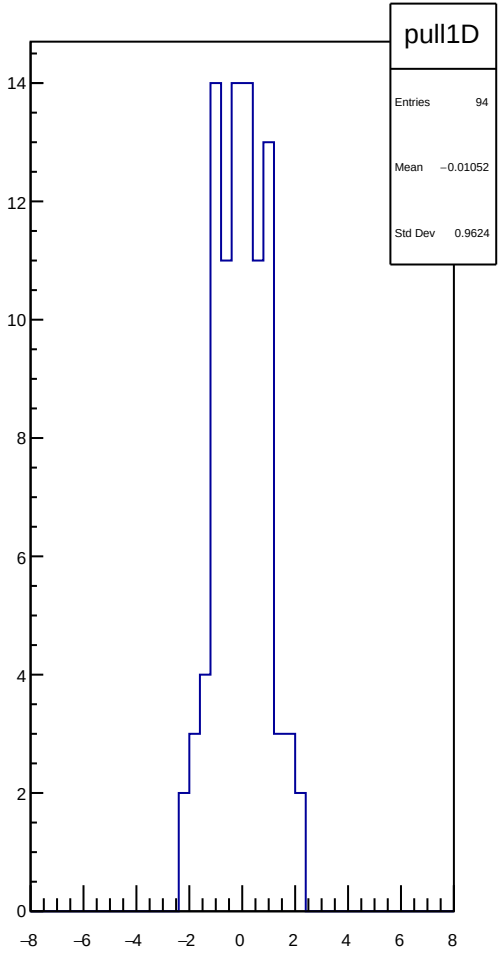

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.2 / 93
p0 1074 ± 0.8018
1100
1090
1080
1070
1060
1050

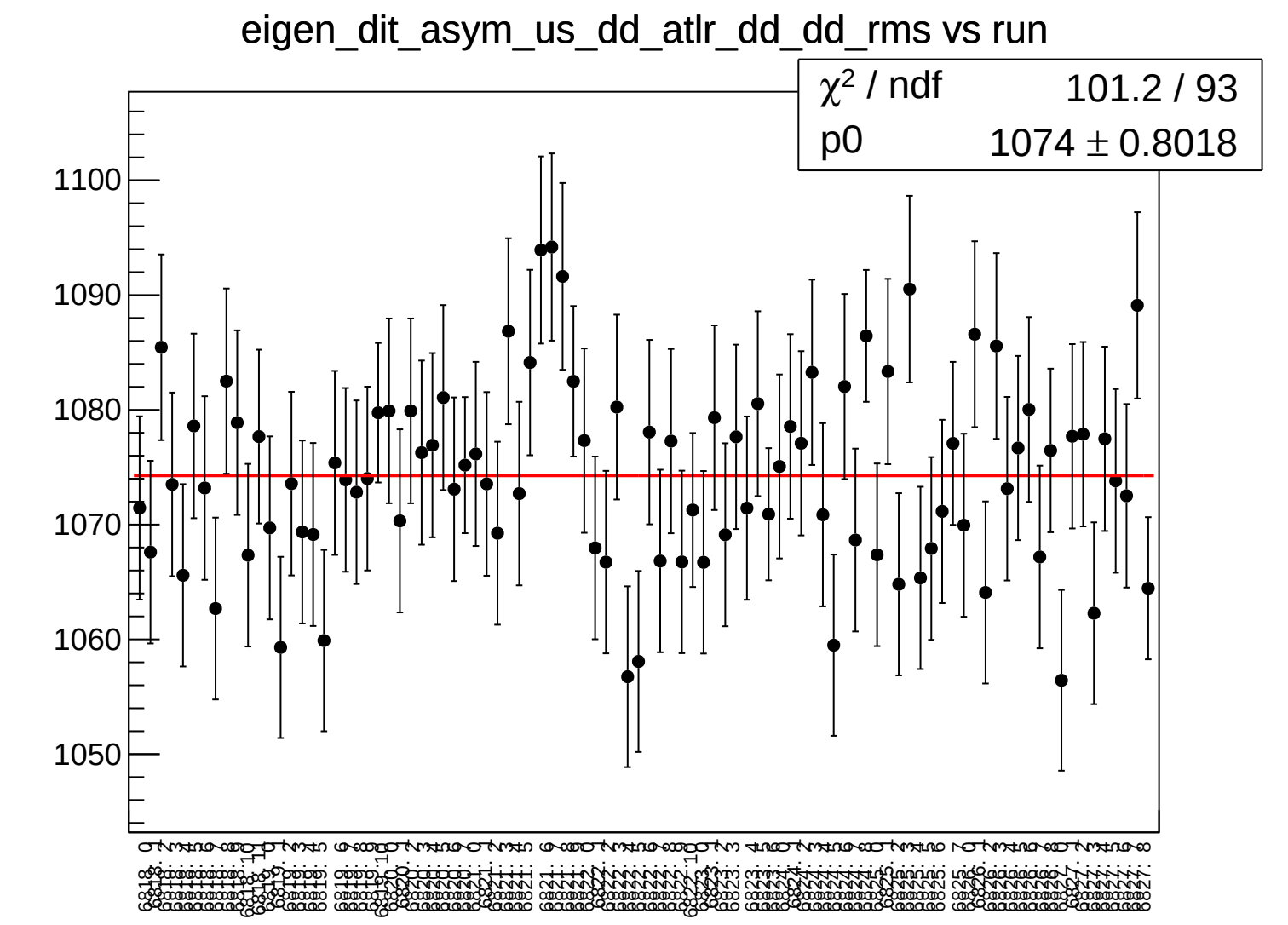

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.44 / 93
p0 −636 ± 490
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −84.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

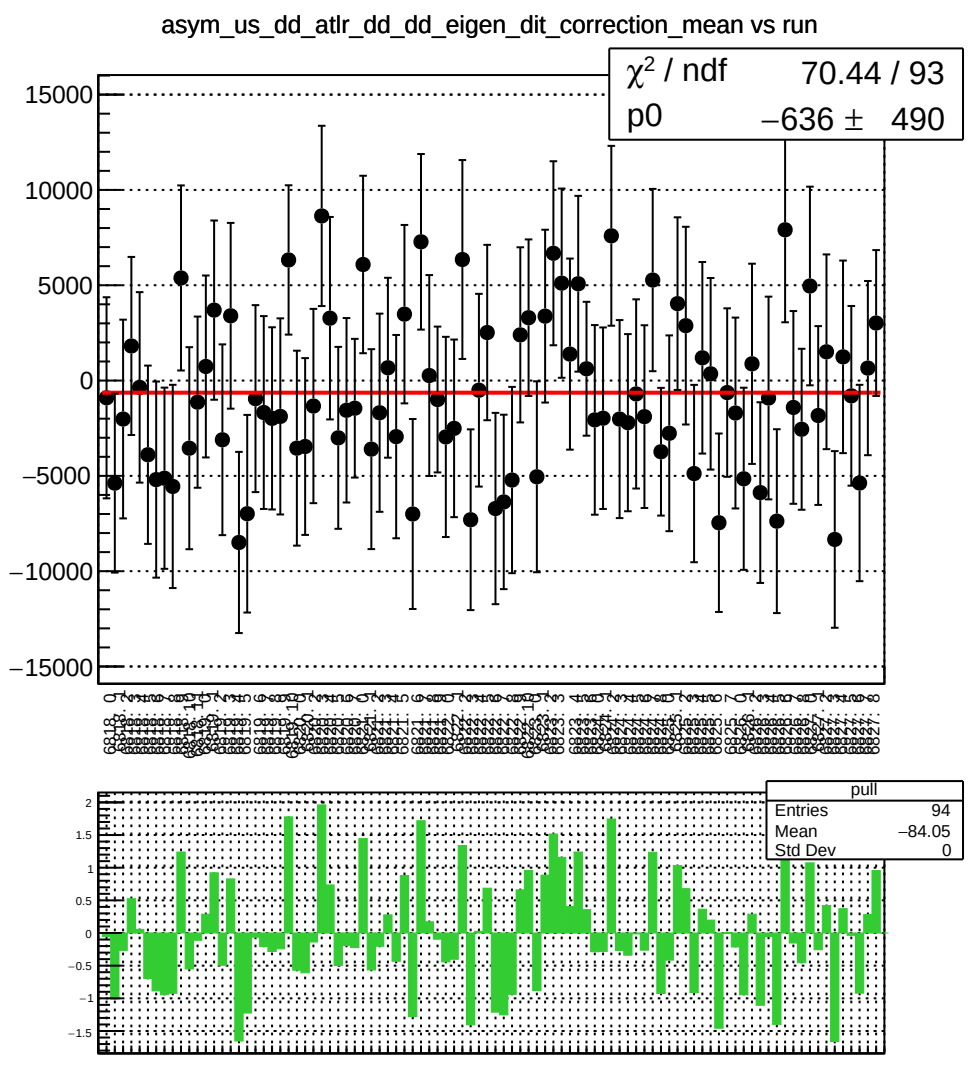

pull1D
Entries 94
Mean −0.008826
Std Dev 0.8656
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

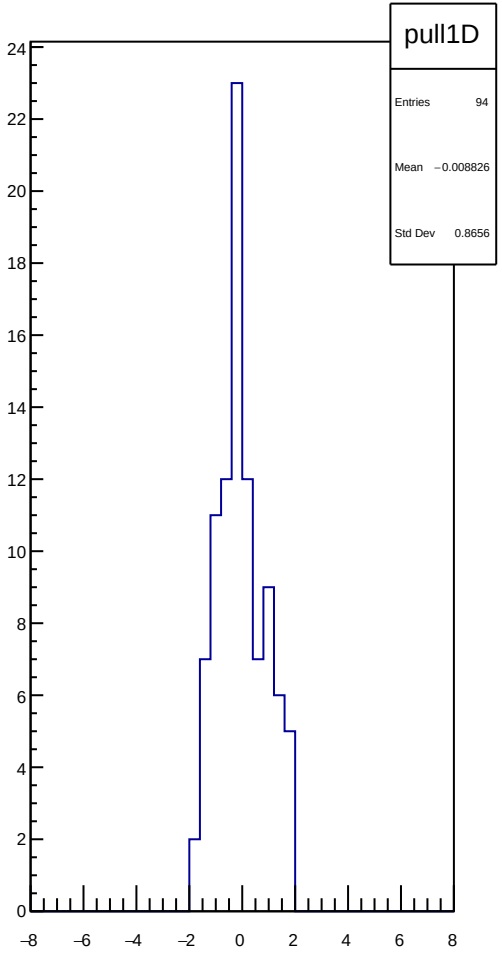

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 3625 / 93
p0 463.7 ± 0.3465
510
500
490
480
470
460
450
440
430
420

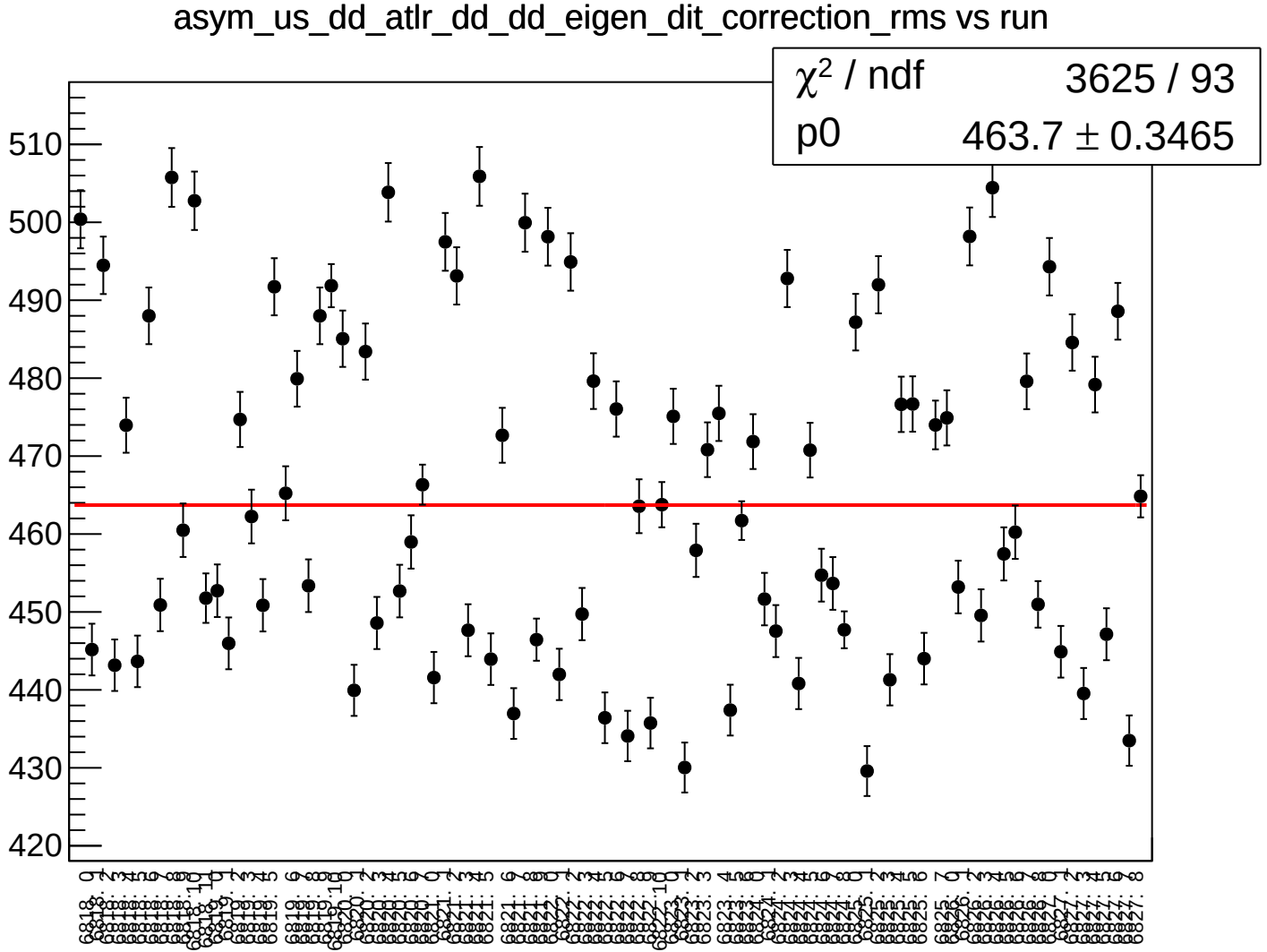

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 87.07 / 93
p0 416.1 ± 1134
pull
Entries 94
Mean 86.06
Std Dev 0

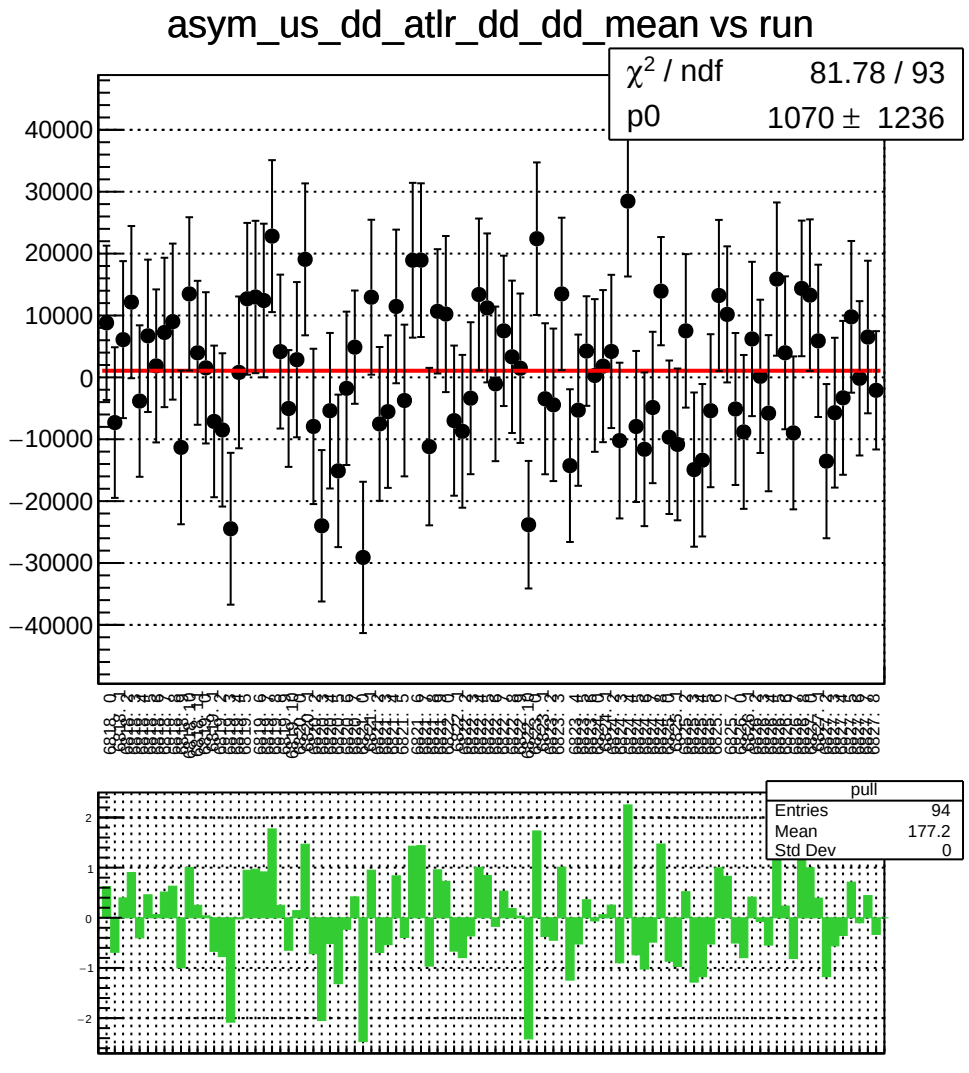

pull1D
Entries 94
Mean −0.01052
Std Dev 0.9624

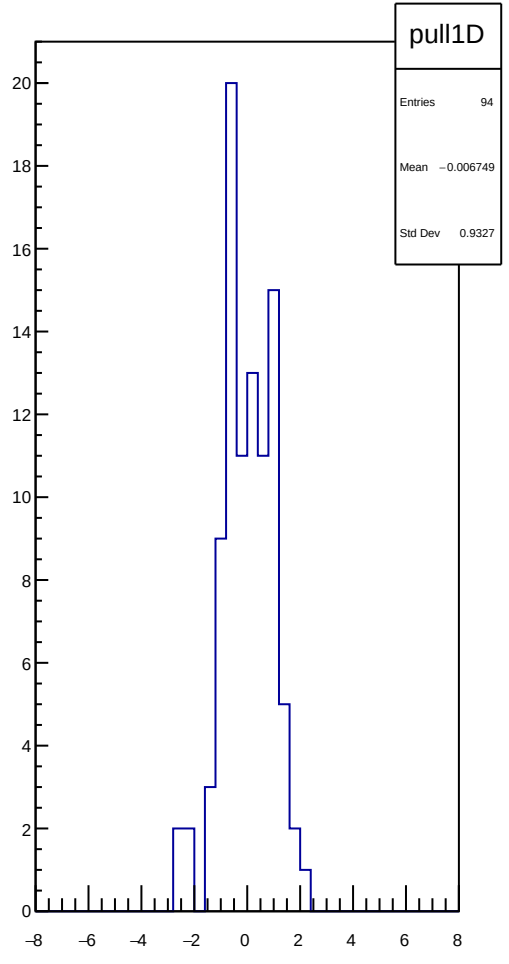

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 101.2 / 93
p0 1074 ± 0.8018
1100
1090
1080
1070
1060
1050

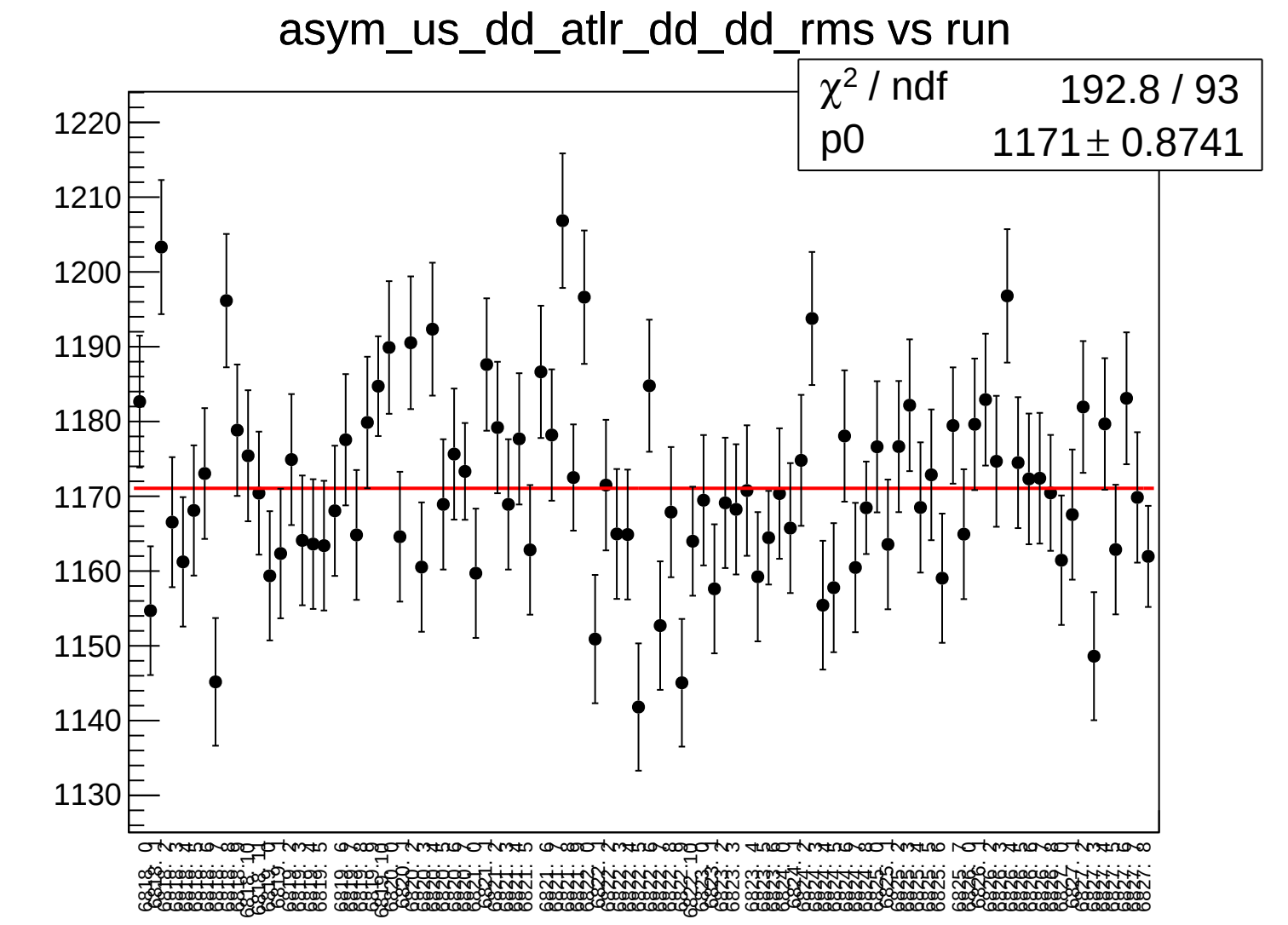

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.44 / 93
p0 −636 ± 490
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −84.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

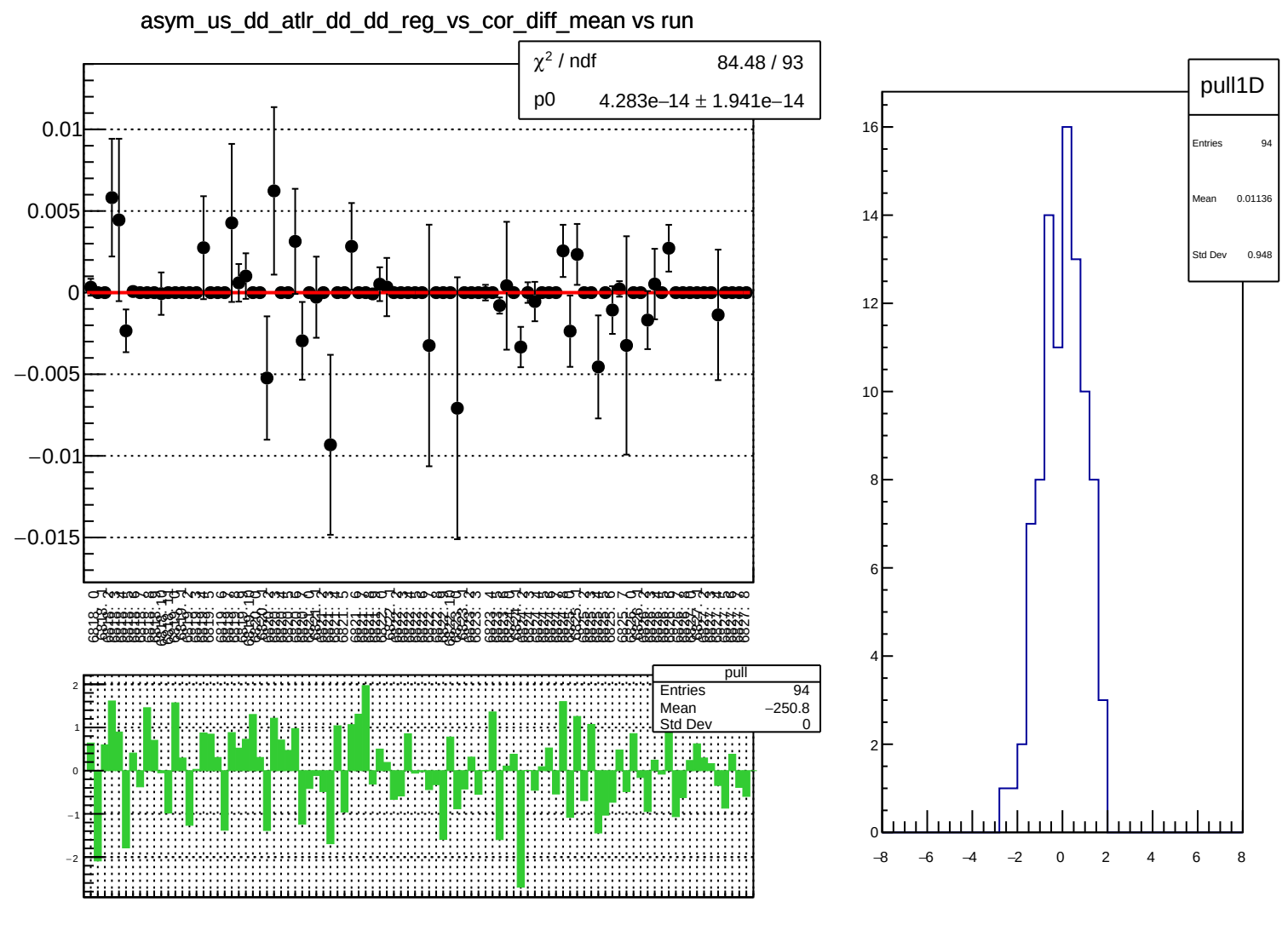

pull1D
Entries 94
Mean −0.008826
Std Dev 0.8656
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

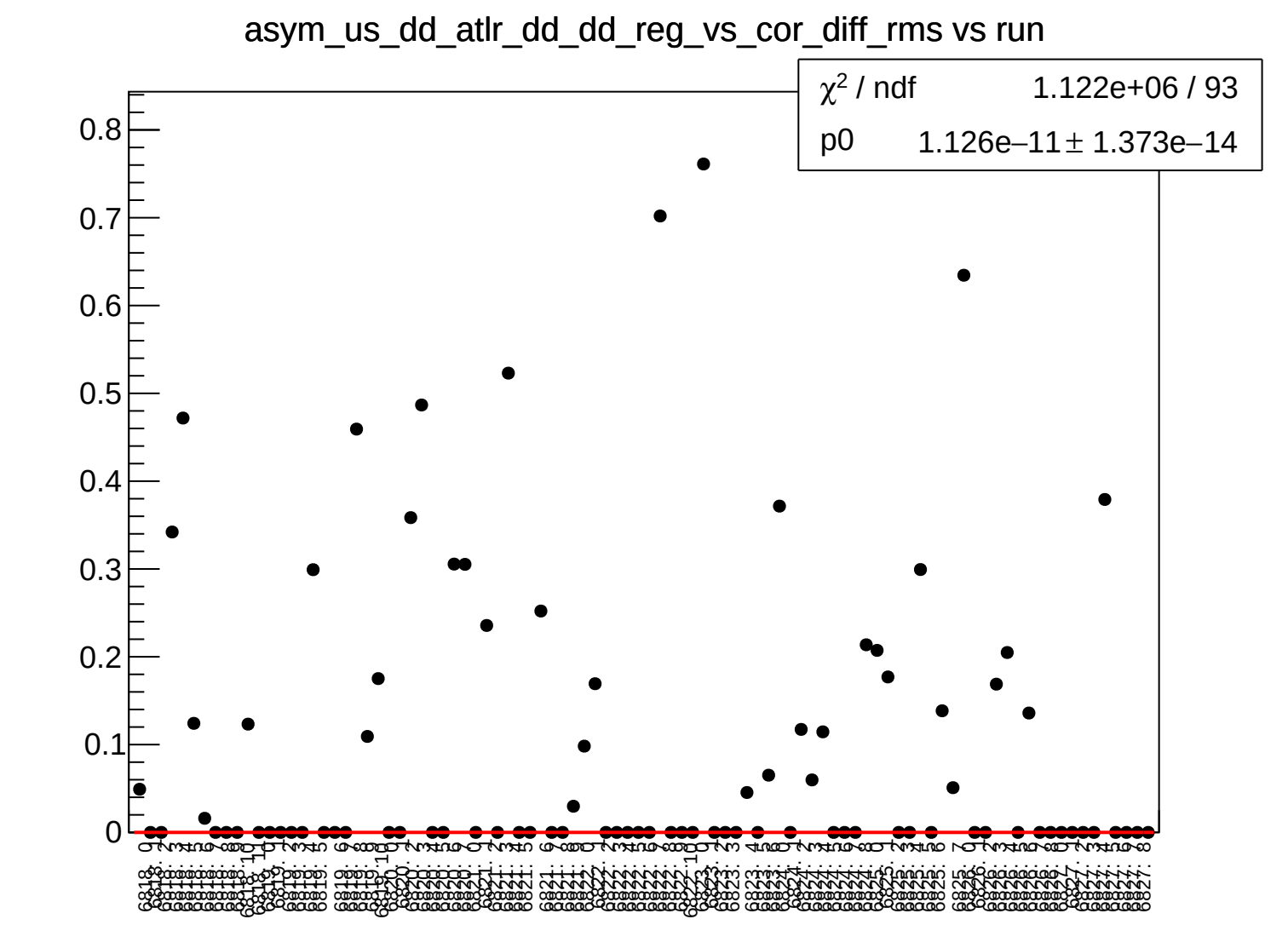

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3625 / 93
p0 463.7 ± 0.3465
510
500
490
480
470
460
450
440
430
420

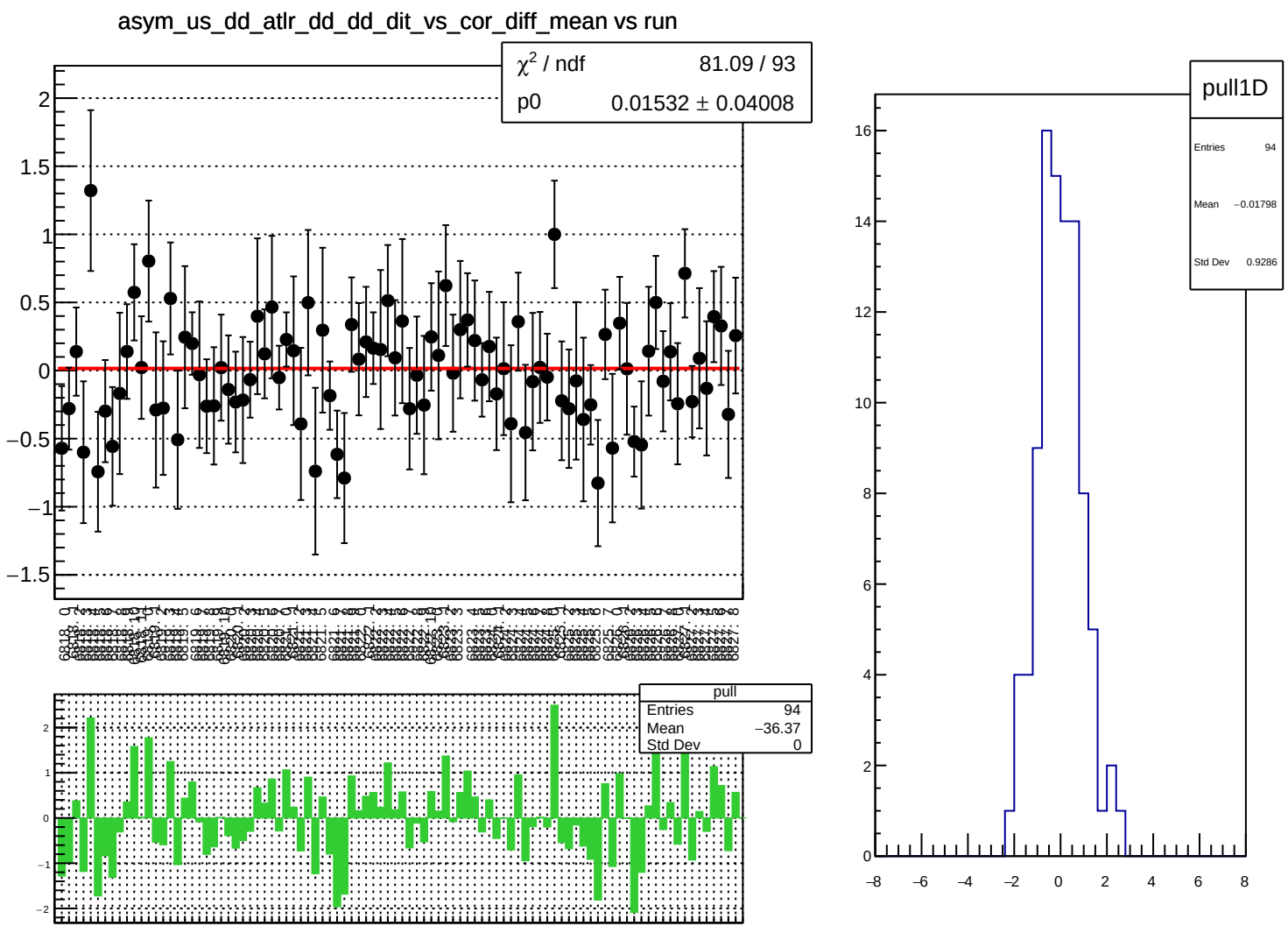

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 81.78 / 93
p0 1070 ± 1236
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean 177.2
Std Dev 0
2
1
0
−1
−2

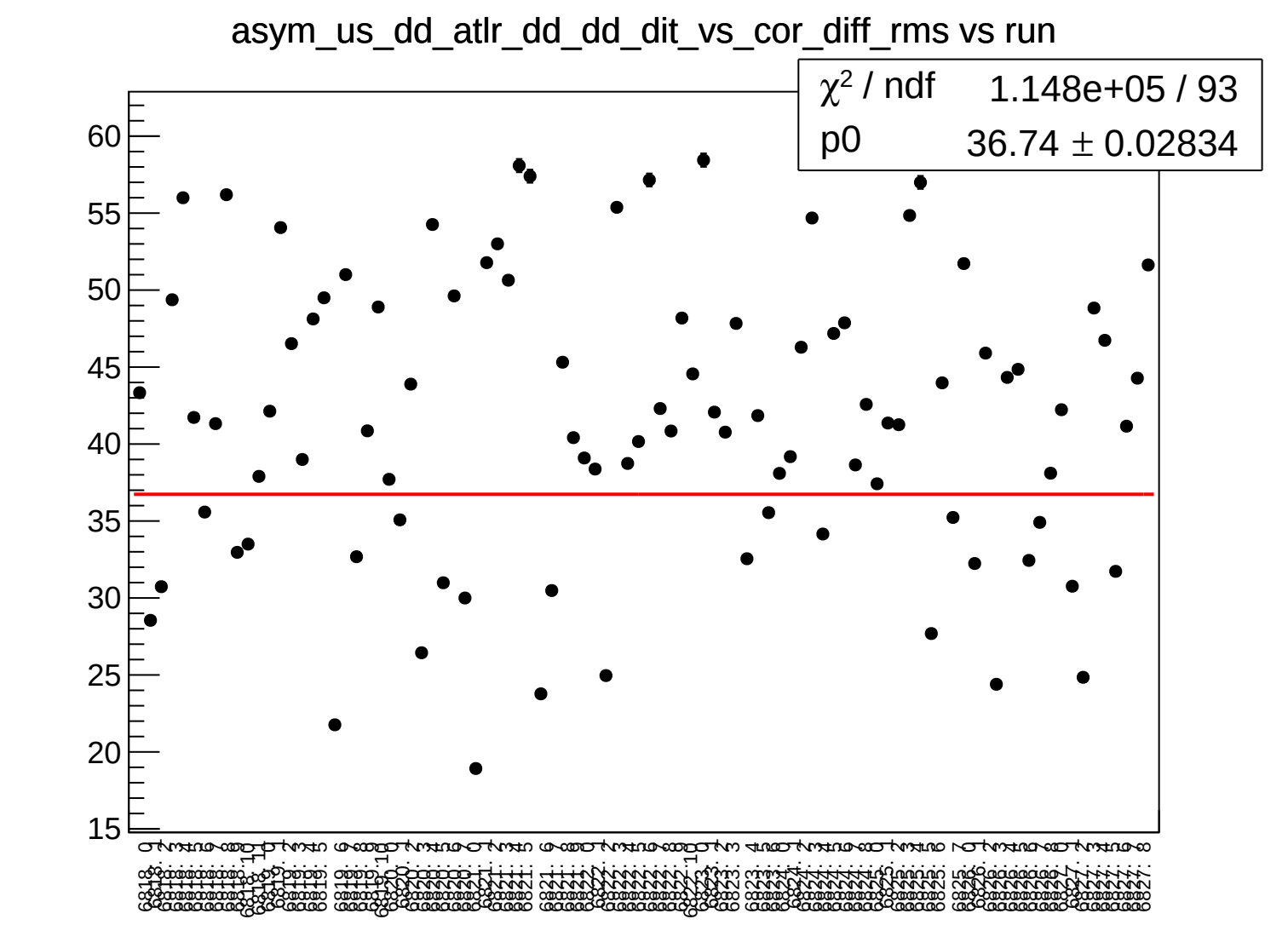

pull1D
Entries 94
Mean −0.006749
Std Dev 0.9327
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

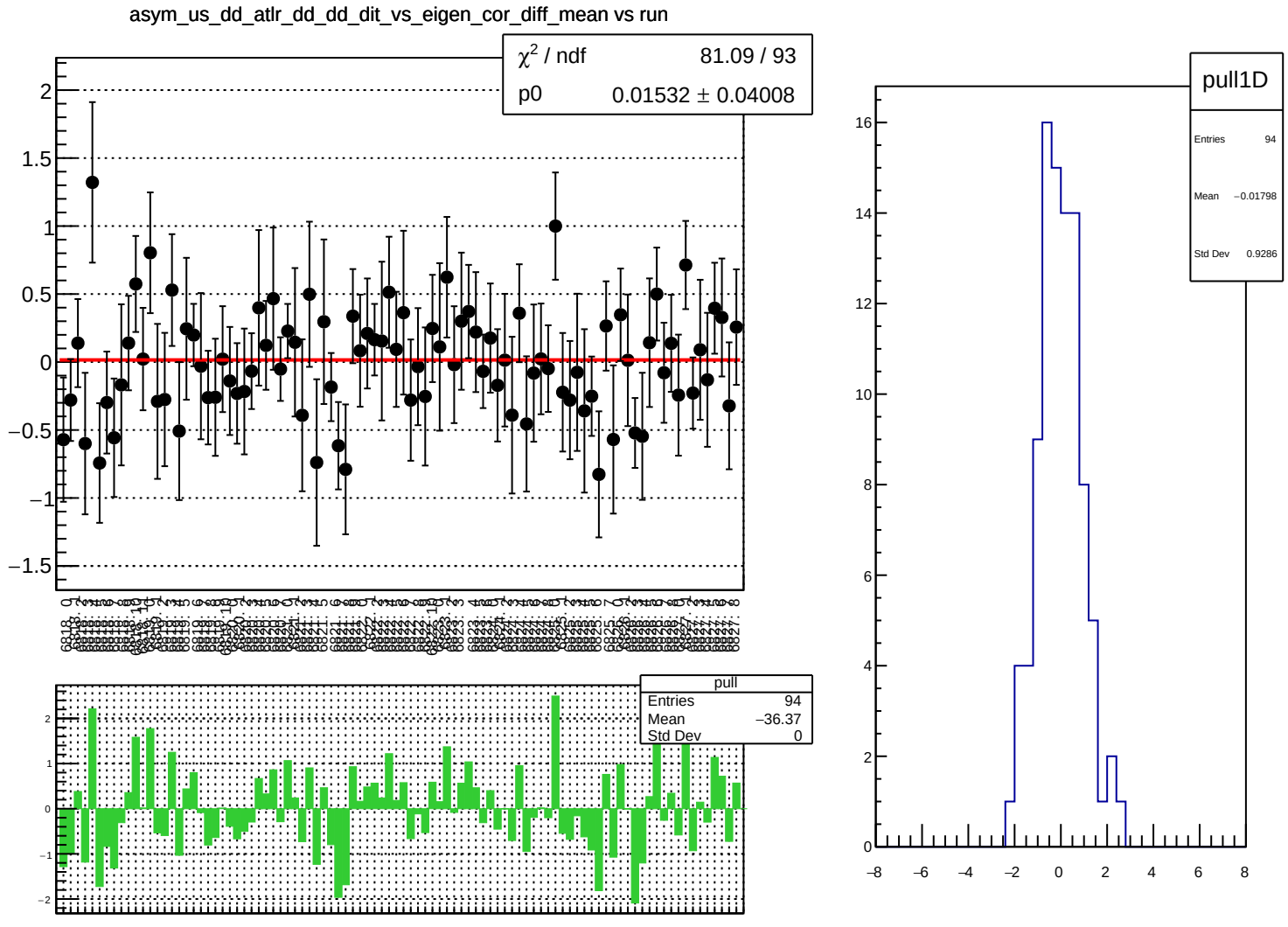

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 192.8 / 93
p0 1171 ± 0.8741
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130

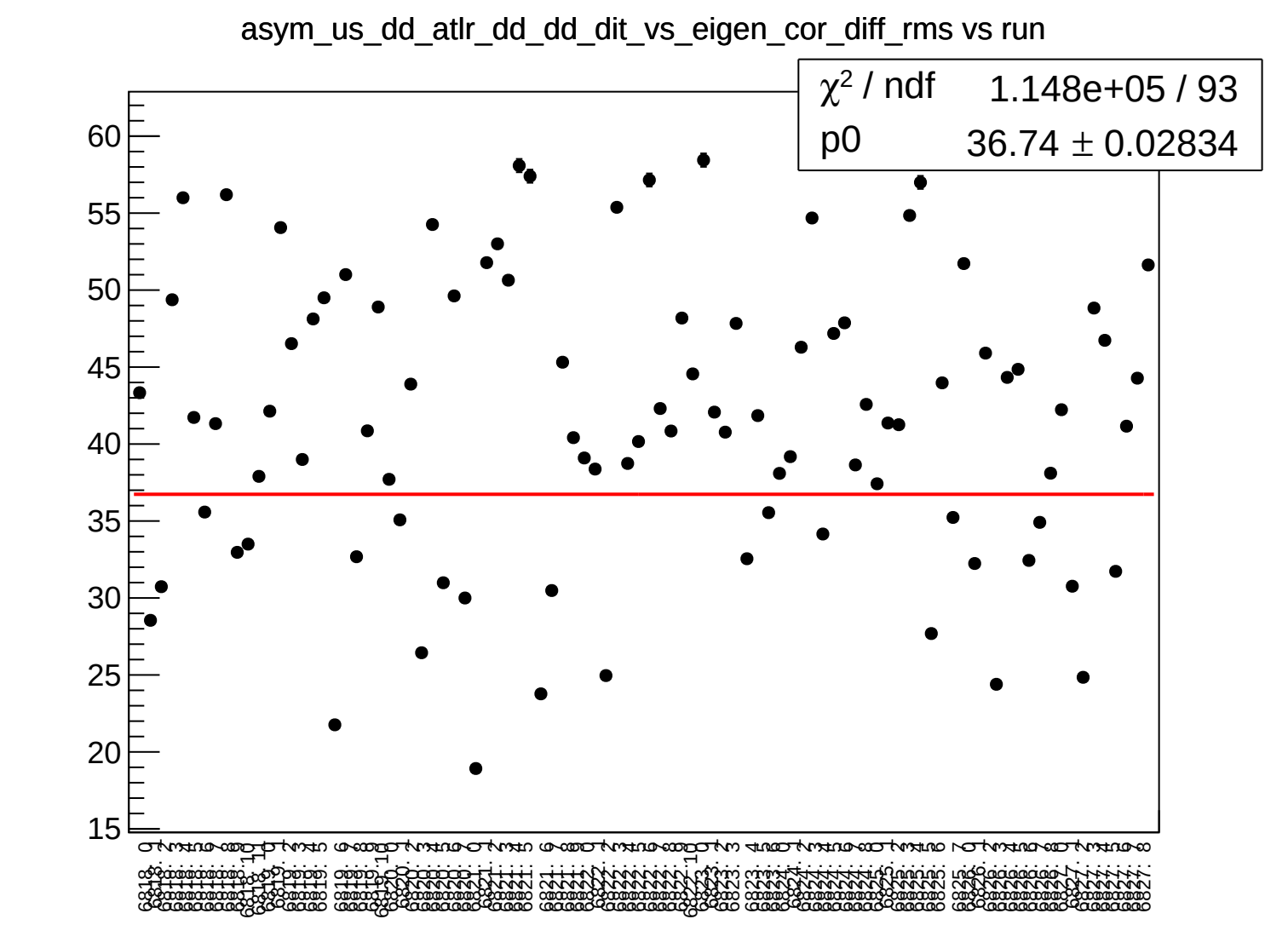

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.48 / 93
p0 4.283e−14 ± 1.941e−14
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean −250.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01136
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

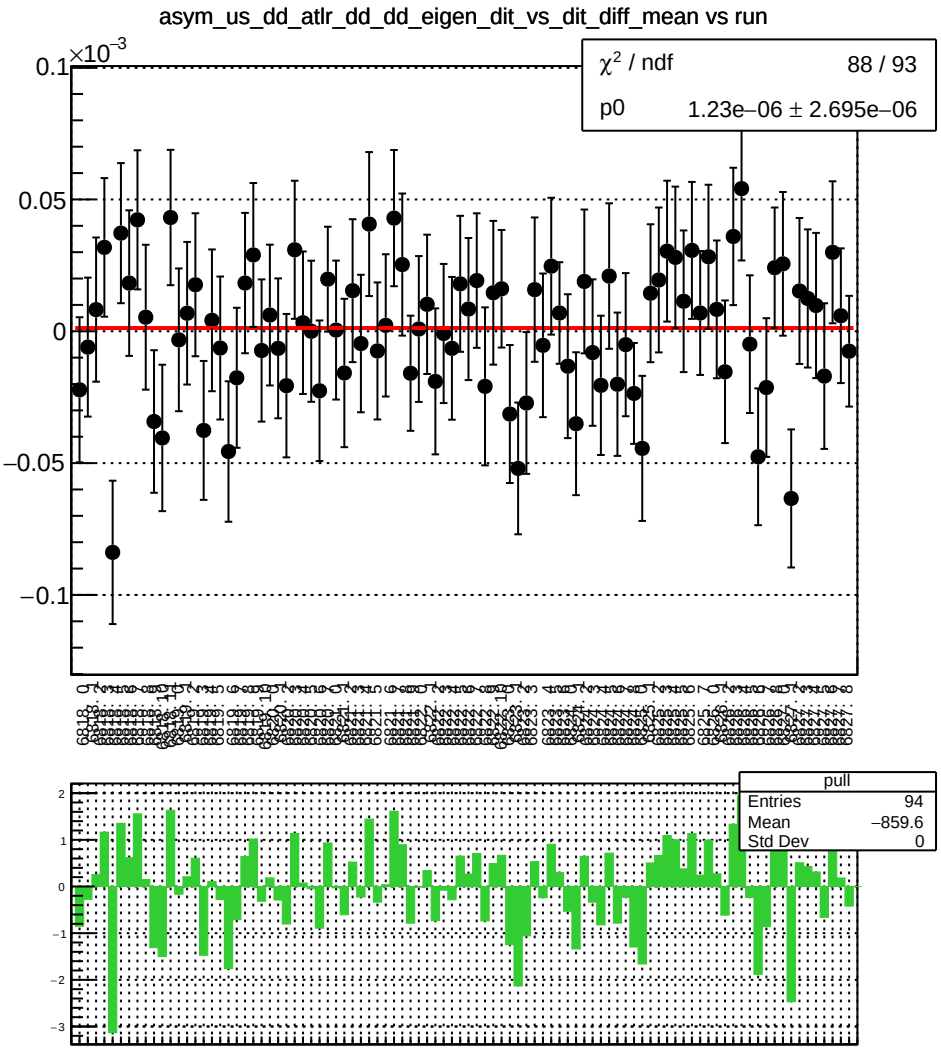

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.122e+06 / 93
p0 1.126e−11 ± 1.373e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

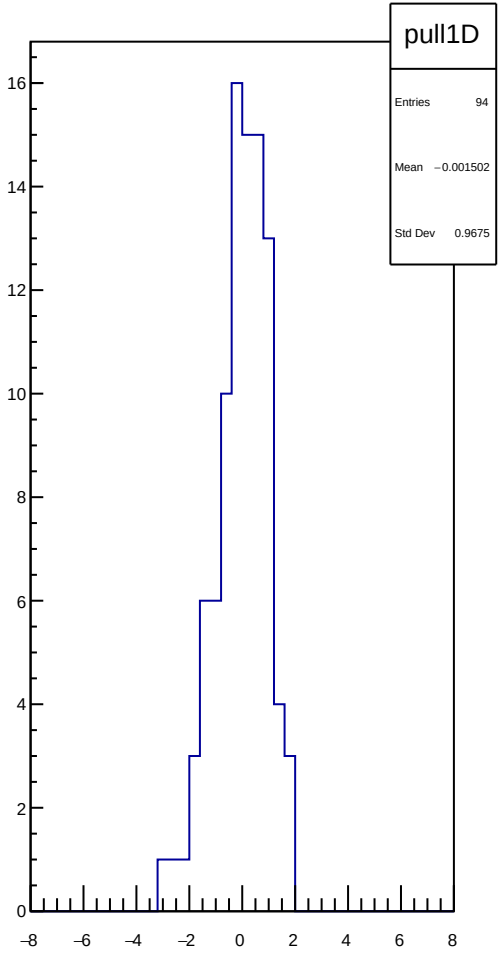

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 93
p0 0.01532 ± 0.04008
pull
Entries 94
Mean −36.37
Std Dev 0
pull1D
Entries 94
Mean −0.01798
Std Dev 0.9286

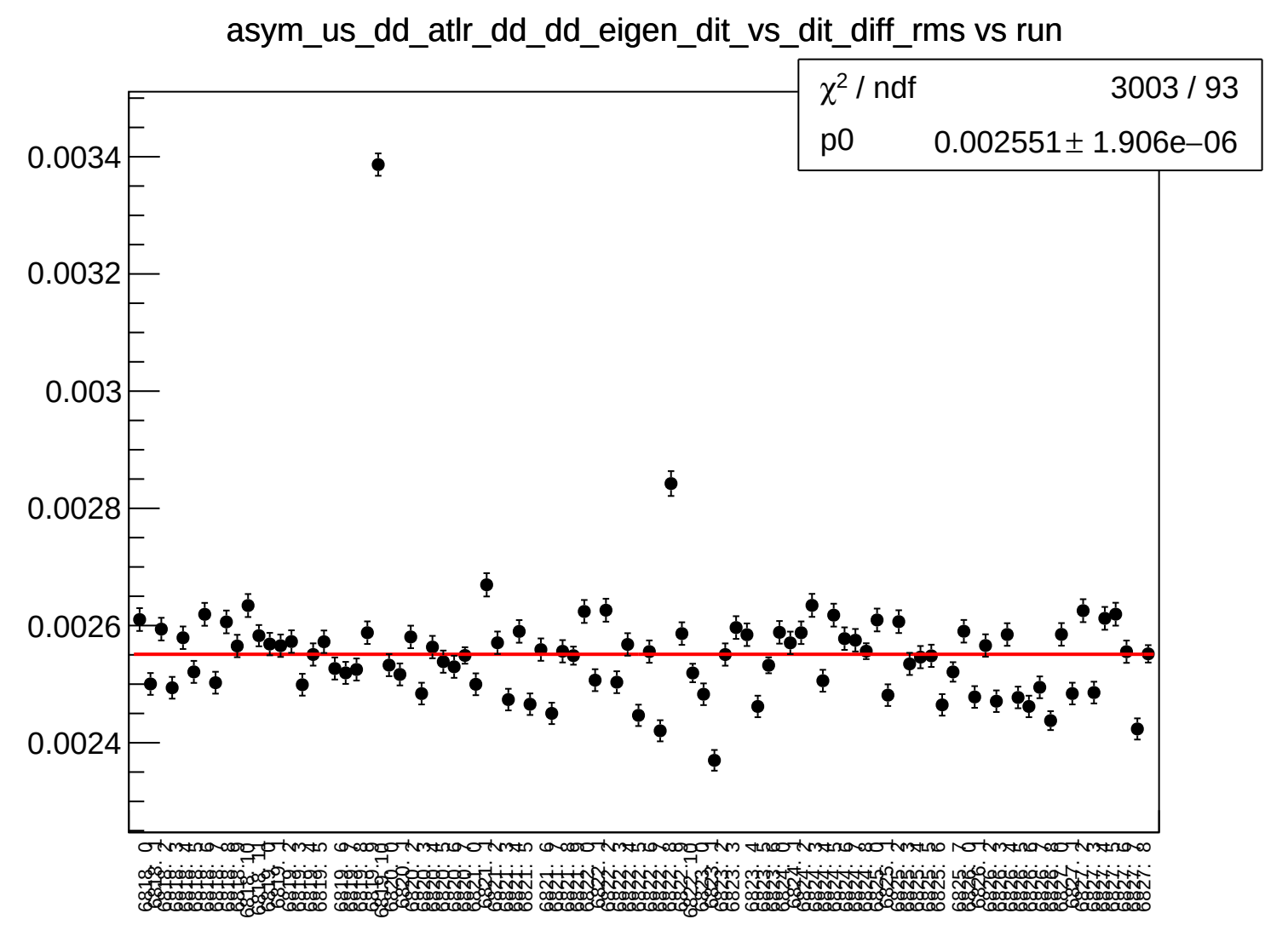

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.148e+05 / 93
p0 36.74 ± 0.02834
60
55
50
45
40
35
30
25
20
15

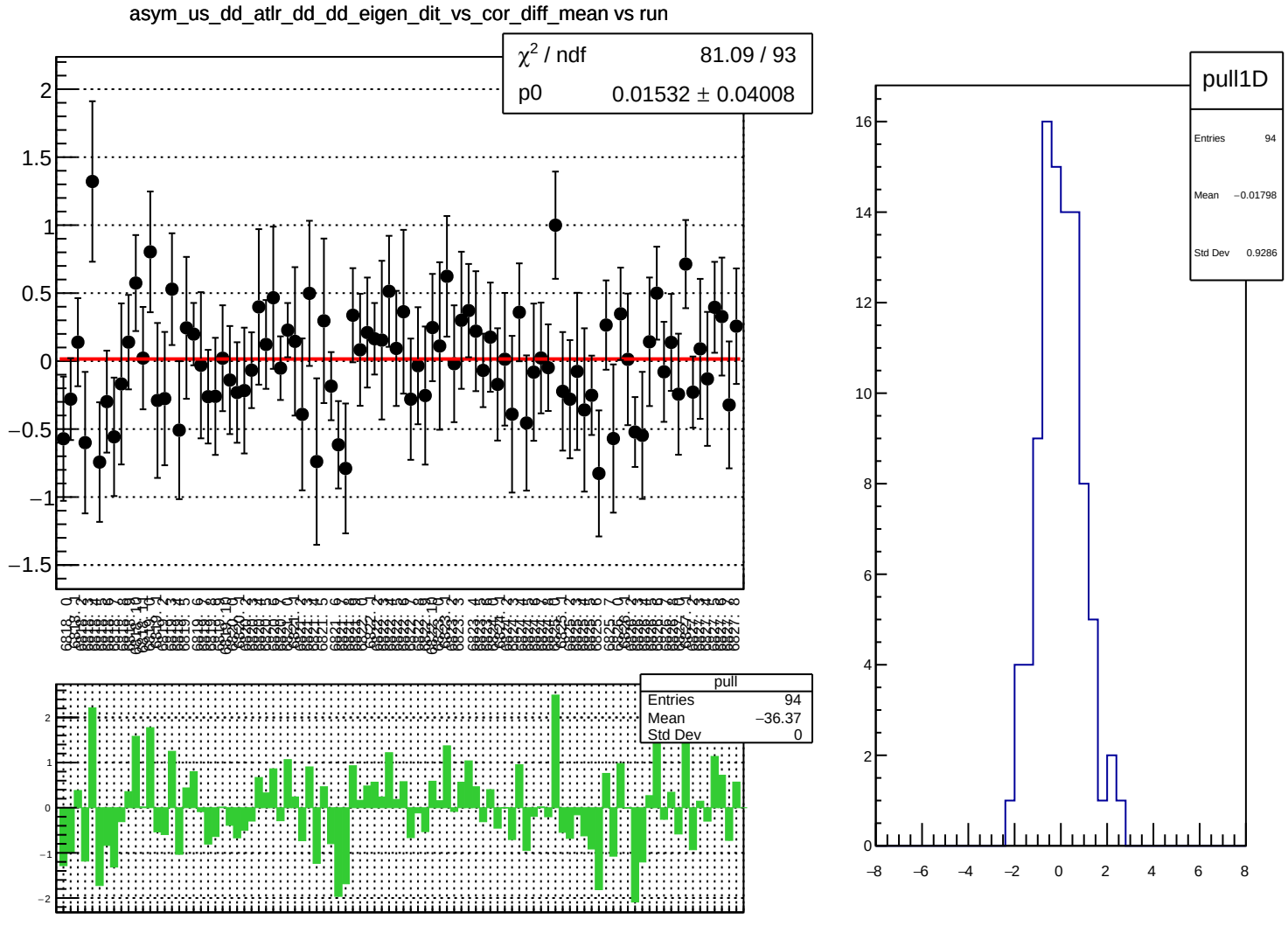

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.09 / 93
p0 0.01532 ± 0.04008
pull
Entries 94
Mean −36.37
Std Dev 0
pull1D
Entries 94
Mean −0.01798
Std Dev 0.9286

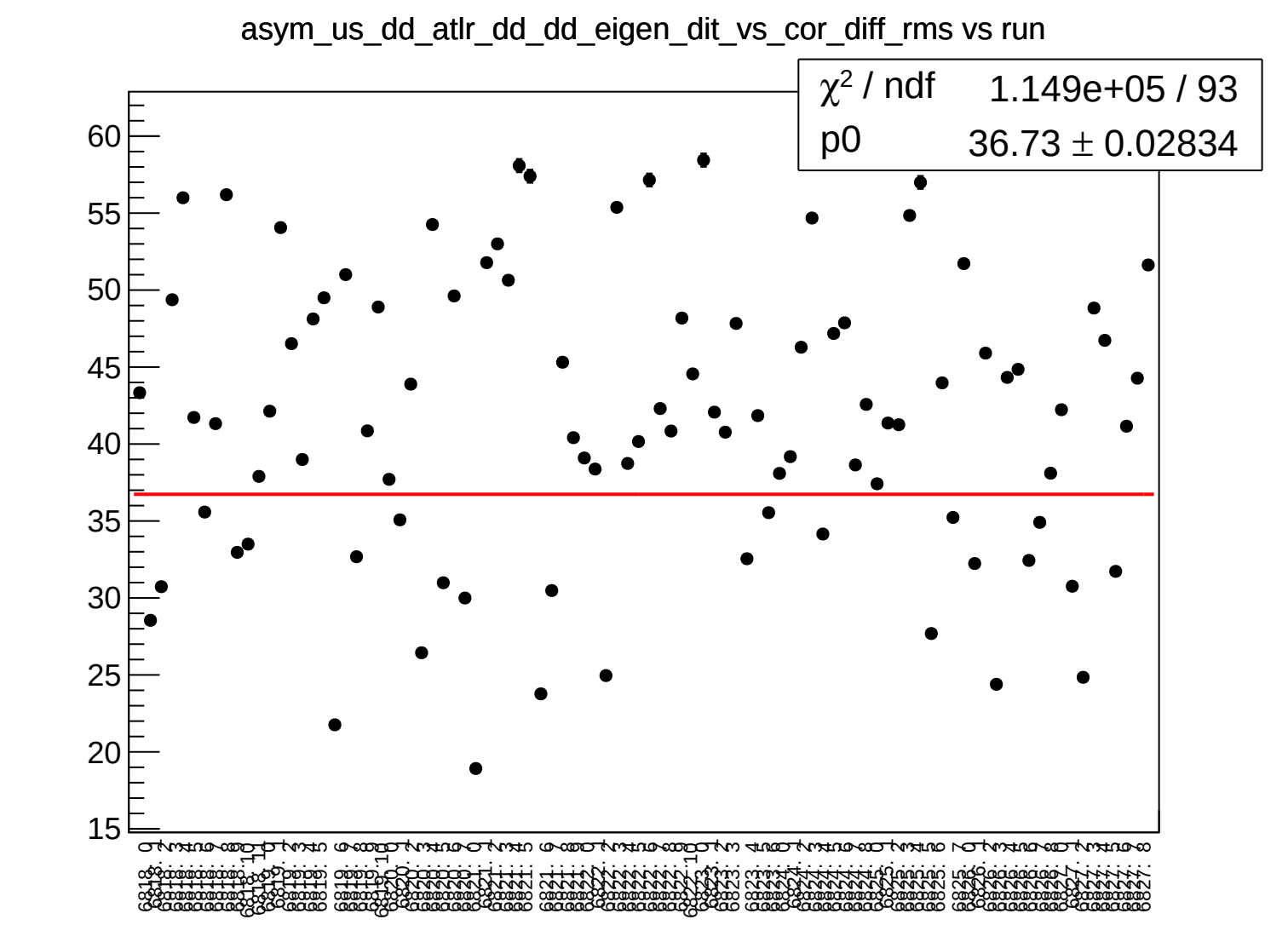

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.148e+05 / 93
p0 36.74 ± 0.02834
60
55
50
45
40
35
30
25
20
15

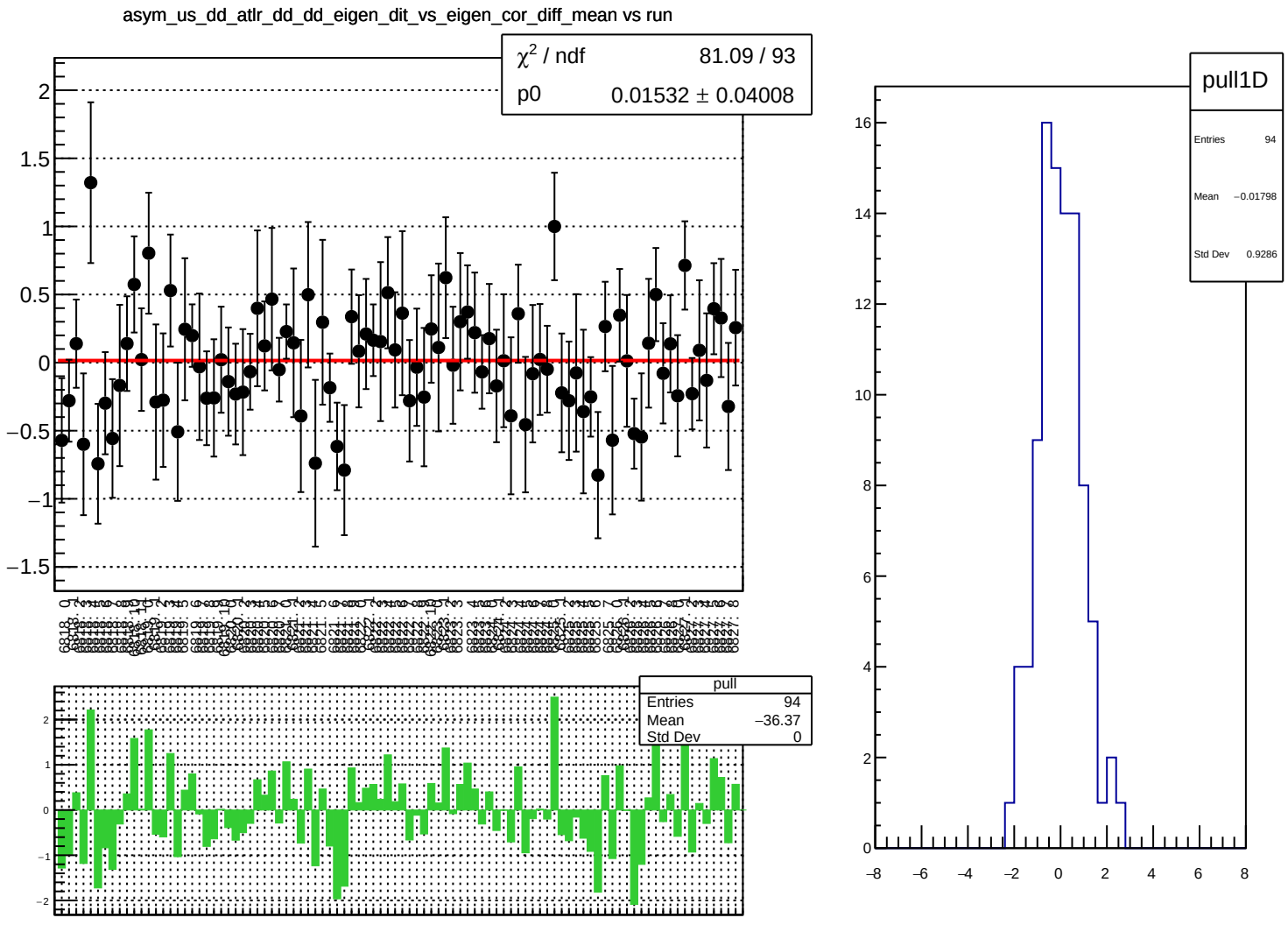

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88 / 93
p0 1.23e−06 ± 2.695e−06
pull
Entries 94
Mean −859.6
Std Dev 0

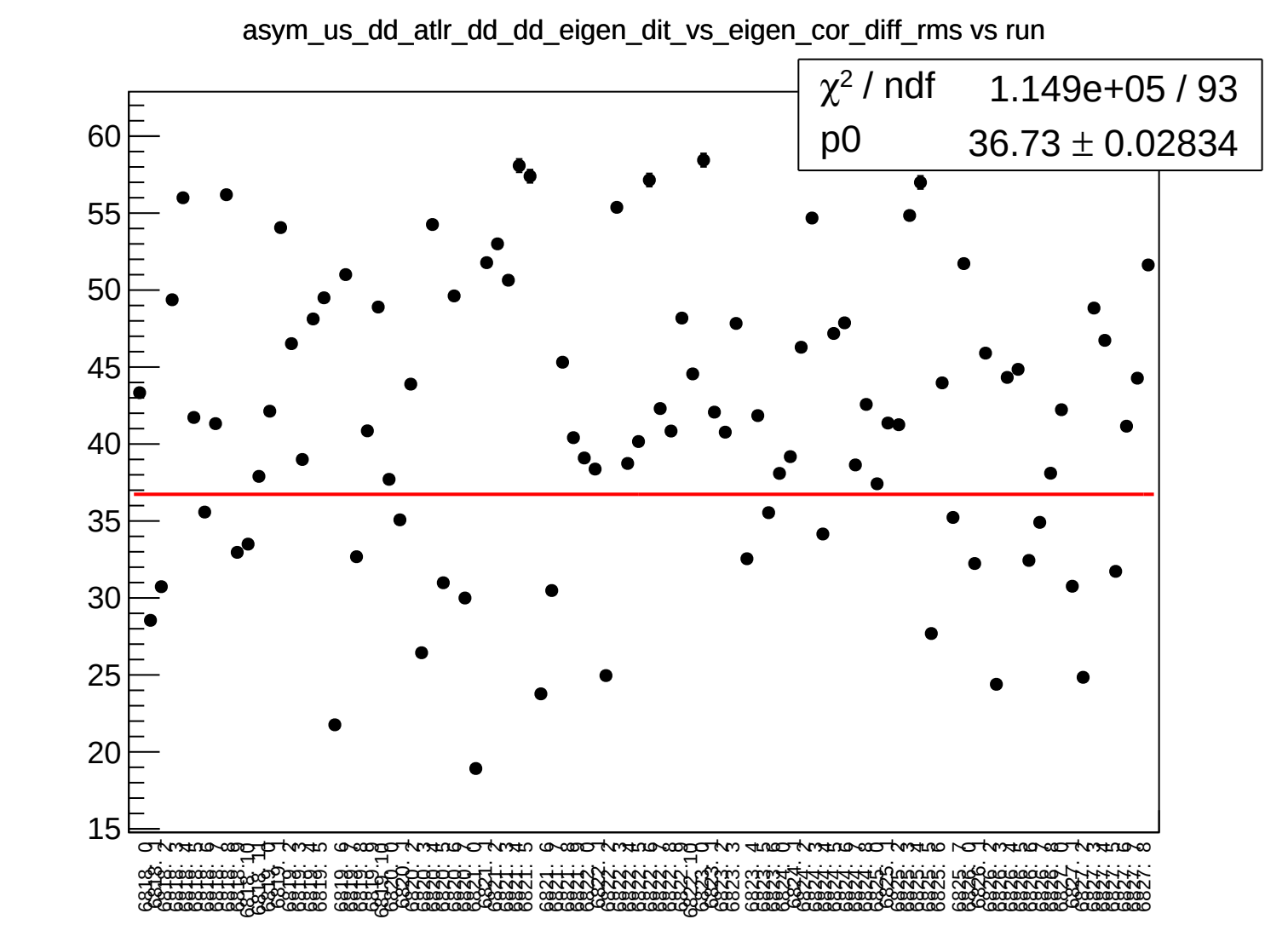

pull1D
Entries 94
Mean −0.001502
Std Dev 0.9675

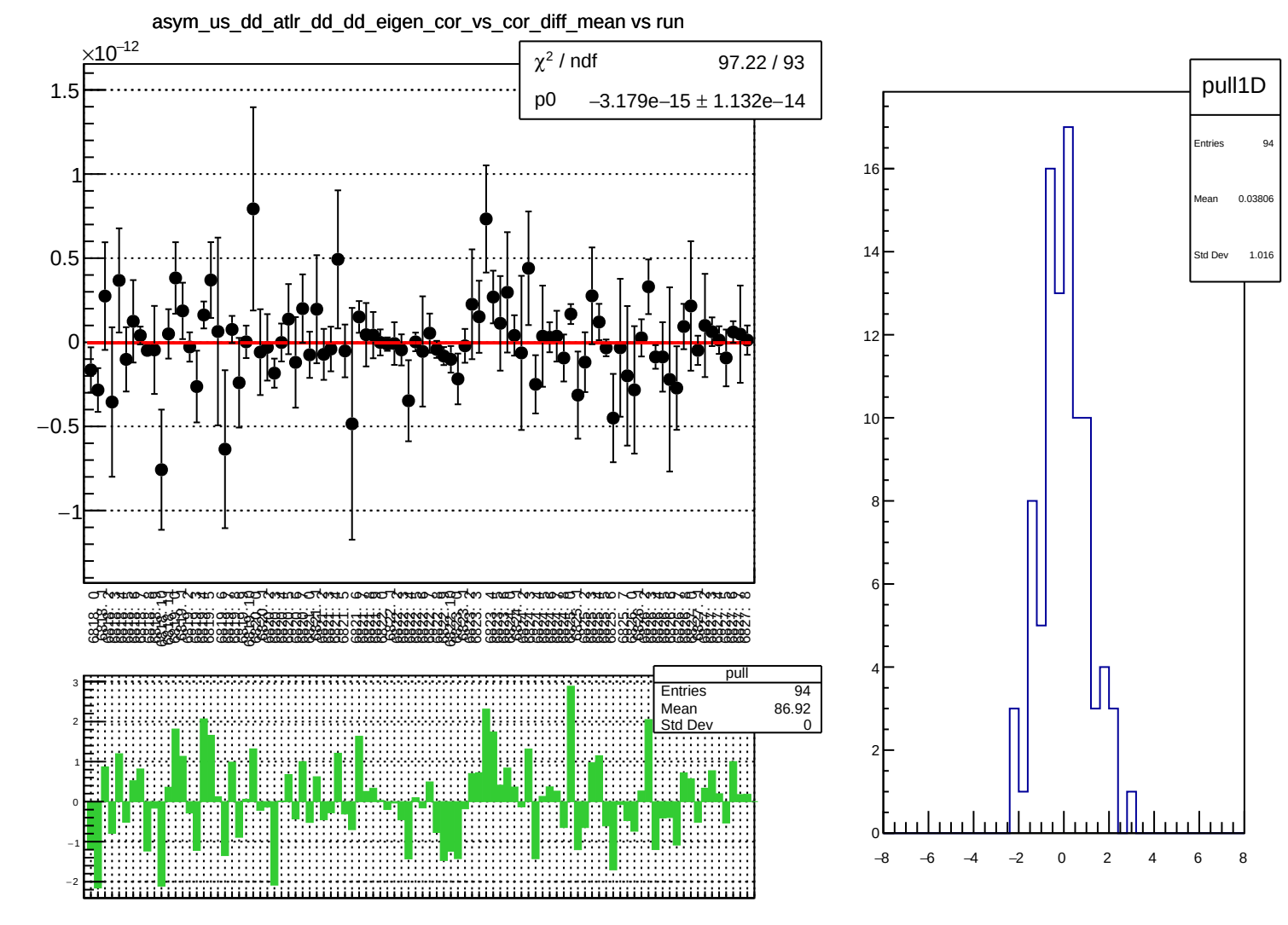

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3003 / 93
p0 0.002551 ± 1.906e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

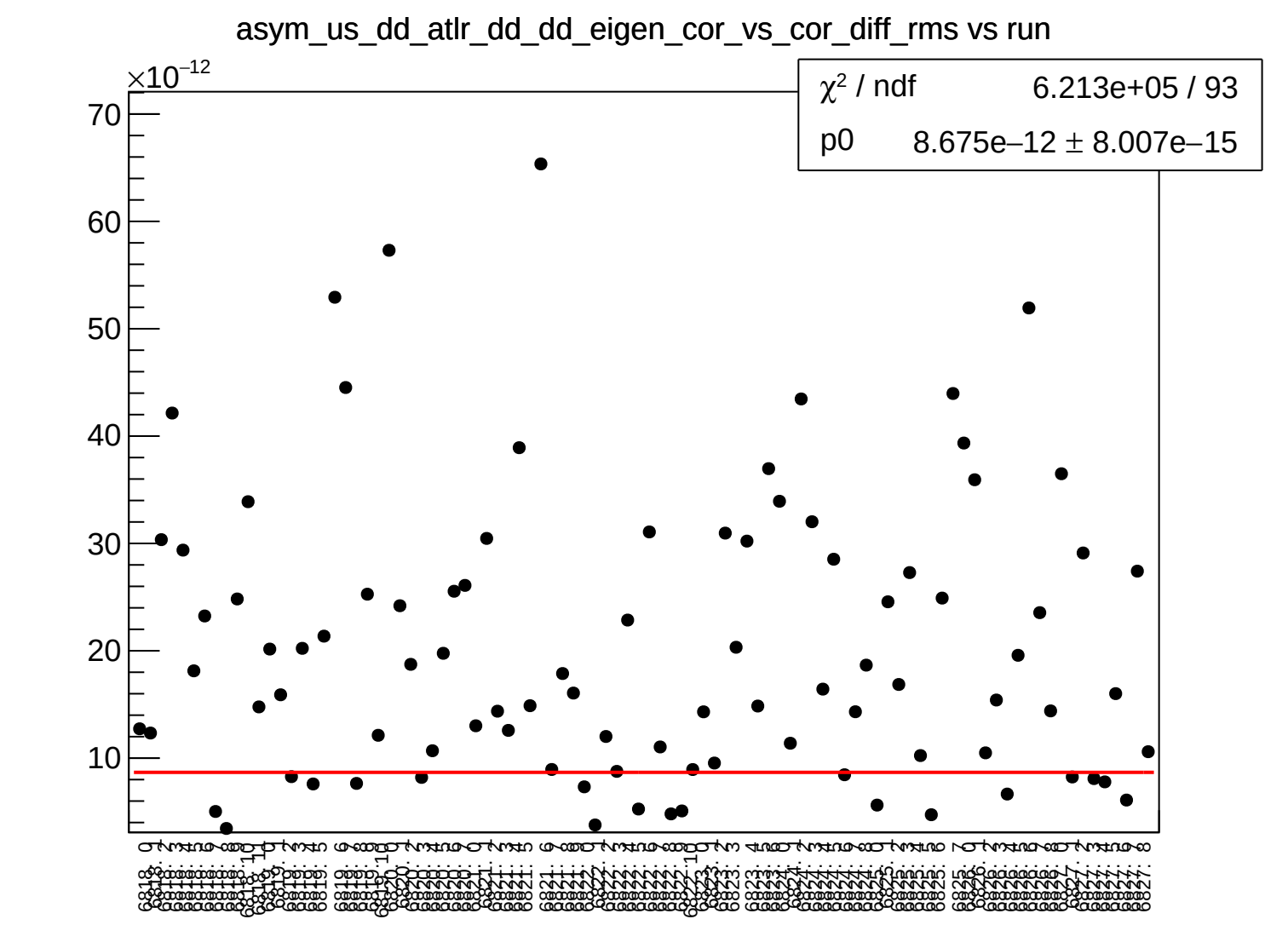

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.09 / 93
p0 0.01532 ± 0.04008
pull
Entries 94
Mean −36.37
Std Dev 0
pull1D
Entries 94
Mean −0.01798
Std Dev 0.9286

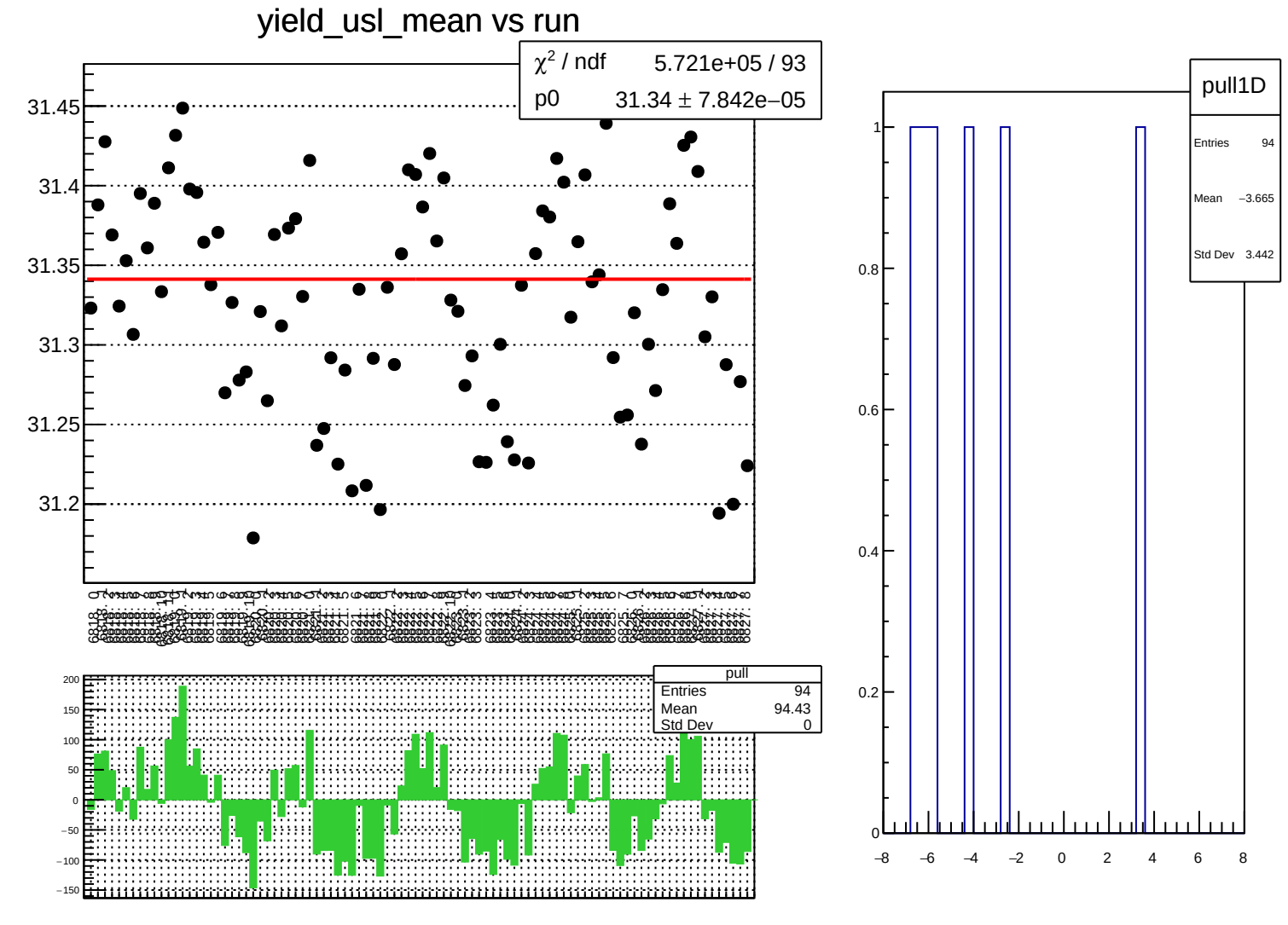

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.149e+05 / 93
p0 36.73 ± 0.02834
60
55
50
45
40
35
30
25
20
15

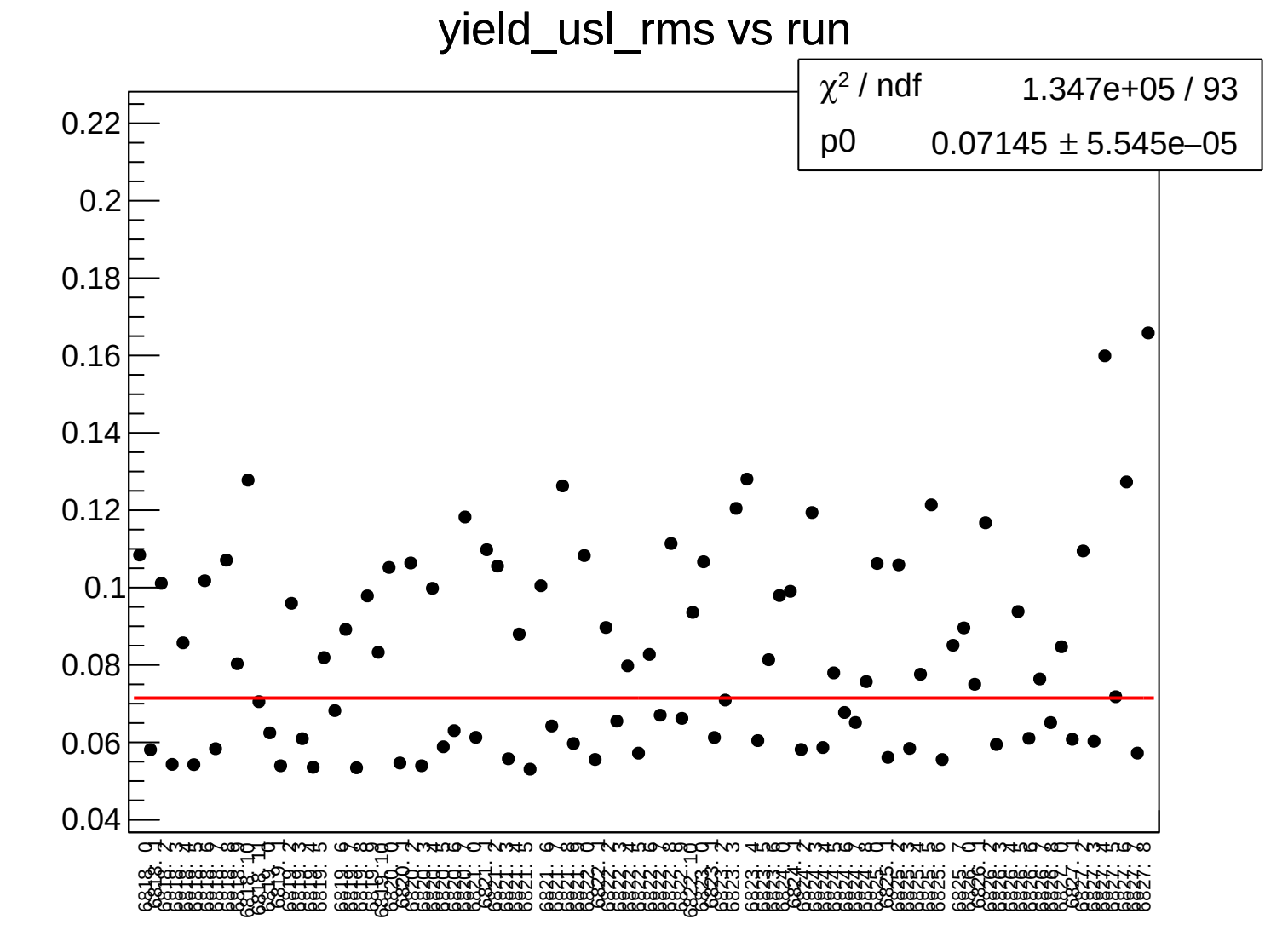

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.09 / 93
p0 0.01532 ± 0.04008
pull
Entries 94
Mean −36.37
Std Dev 0
pull1D
Entries 94
Mean −0.01798
Std Dev 0.9286

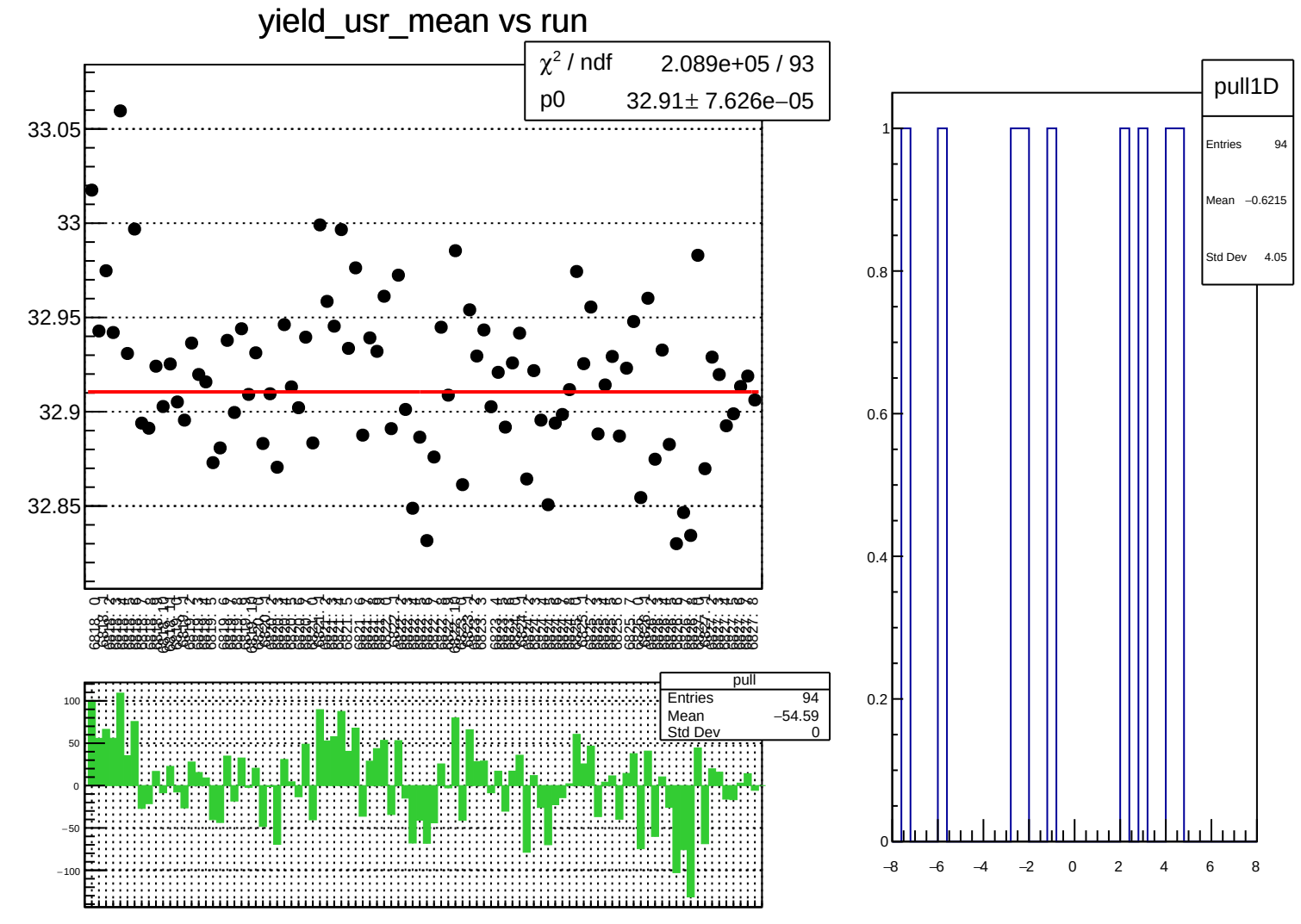

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.149e+05 / 93
p0 36.73 ± 0.02834
60
55
50
45
40
35
30
25
20
15

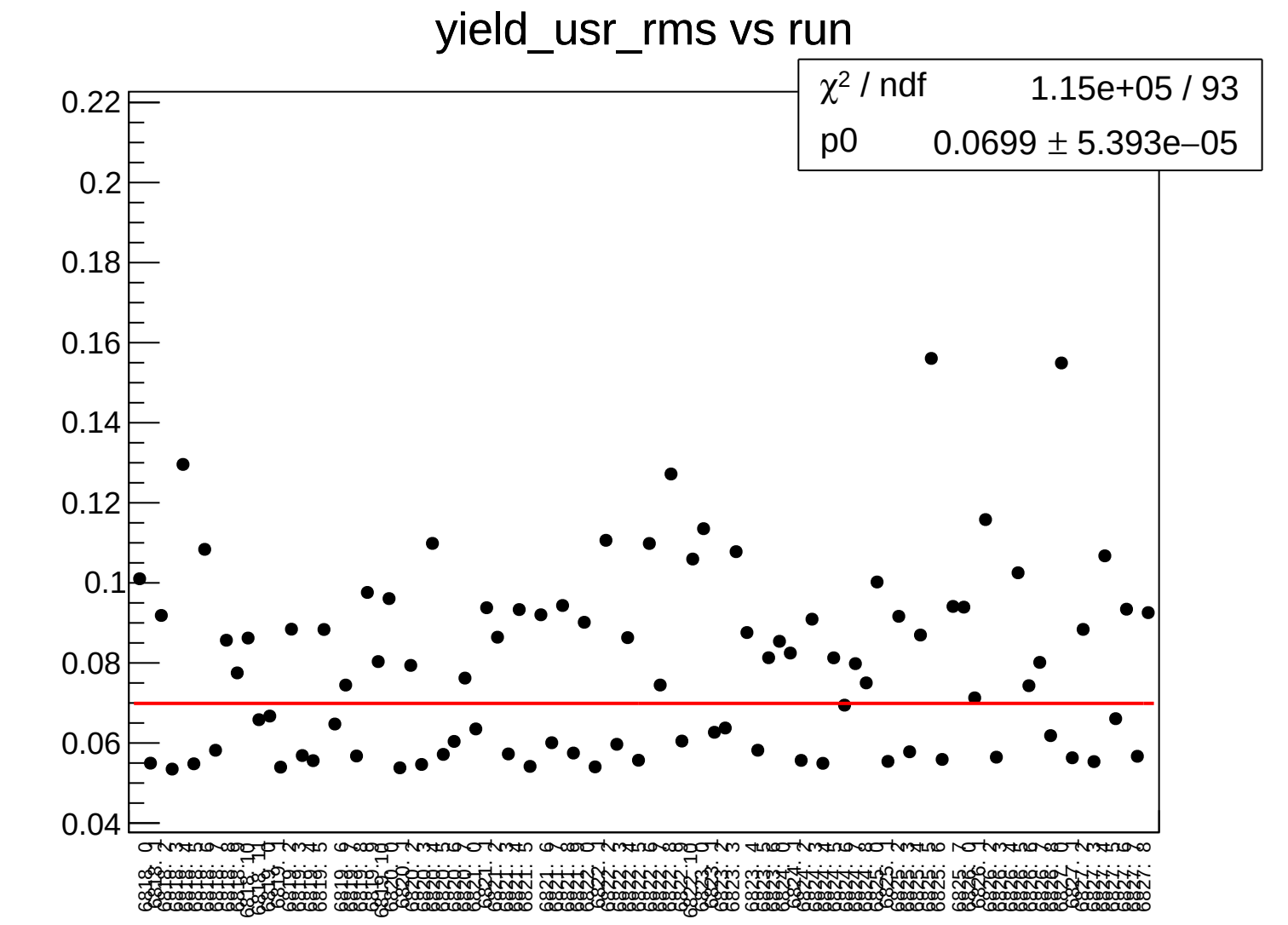

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.22 / 93
p0 −3.179e−15 ± 1.132e−14
pull
Entries 94
Mean 86.92
Std Dev 0
pull1D
Entries 94
Mean 0.03806
Std Dev 1.016

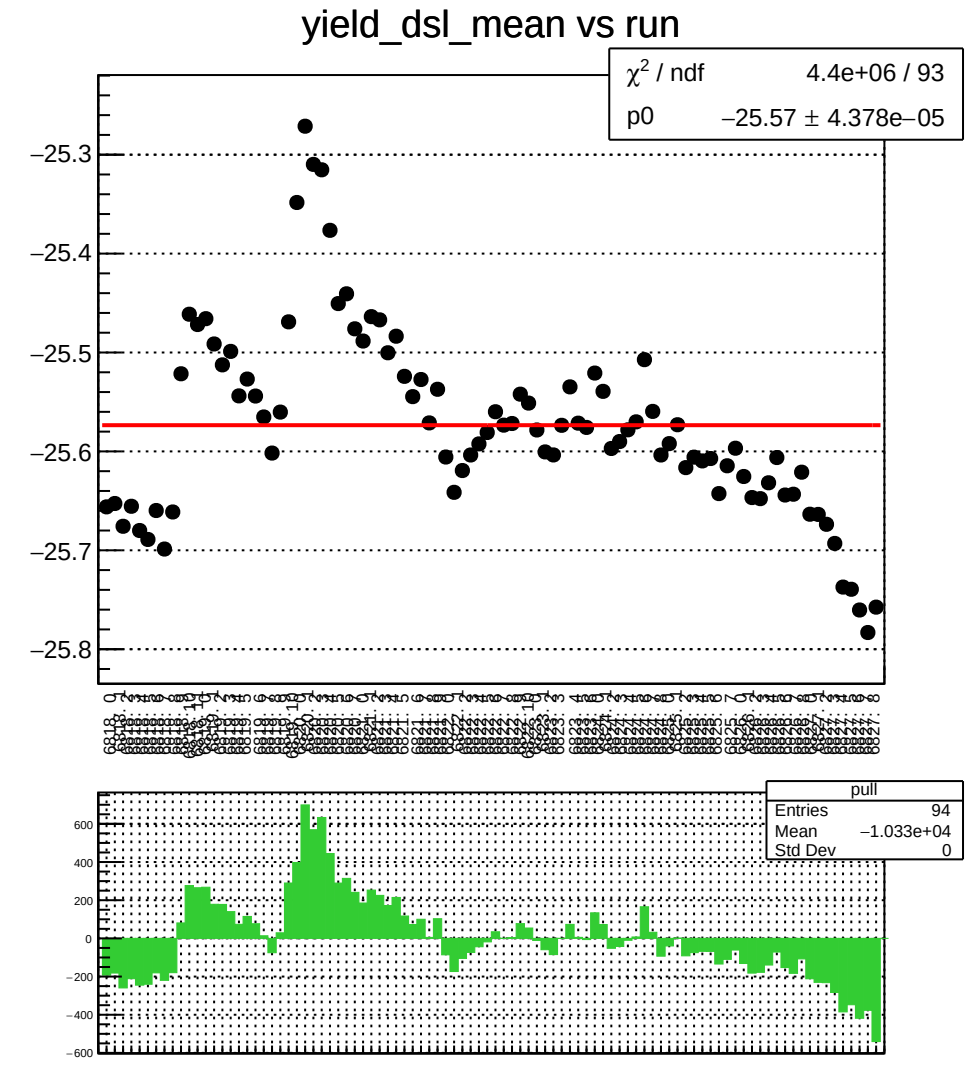

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.213e+05 / 93
p0 8.675e−12 ± 8.007e−15
70
60
50
40
30
20
10

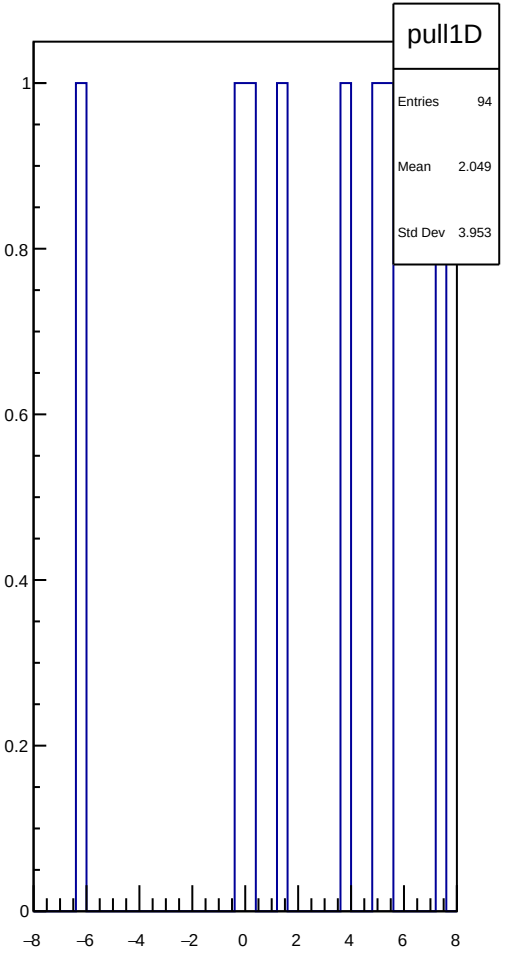

yield_usl_mean vs run
χ² / ndf 5.721e+05 / 93
p0 31.34 ± 7.842e−05
31.45
31.4
31.35
31.3
31.25
31.2
pull
Entries 94
Mean 94.43
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −3.665
Std Dev 3.442
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

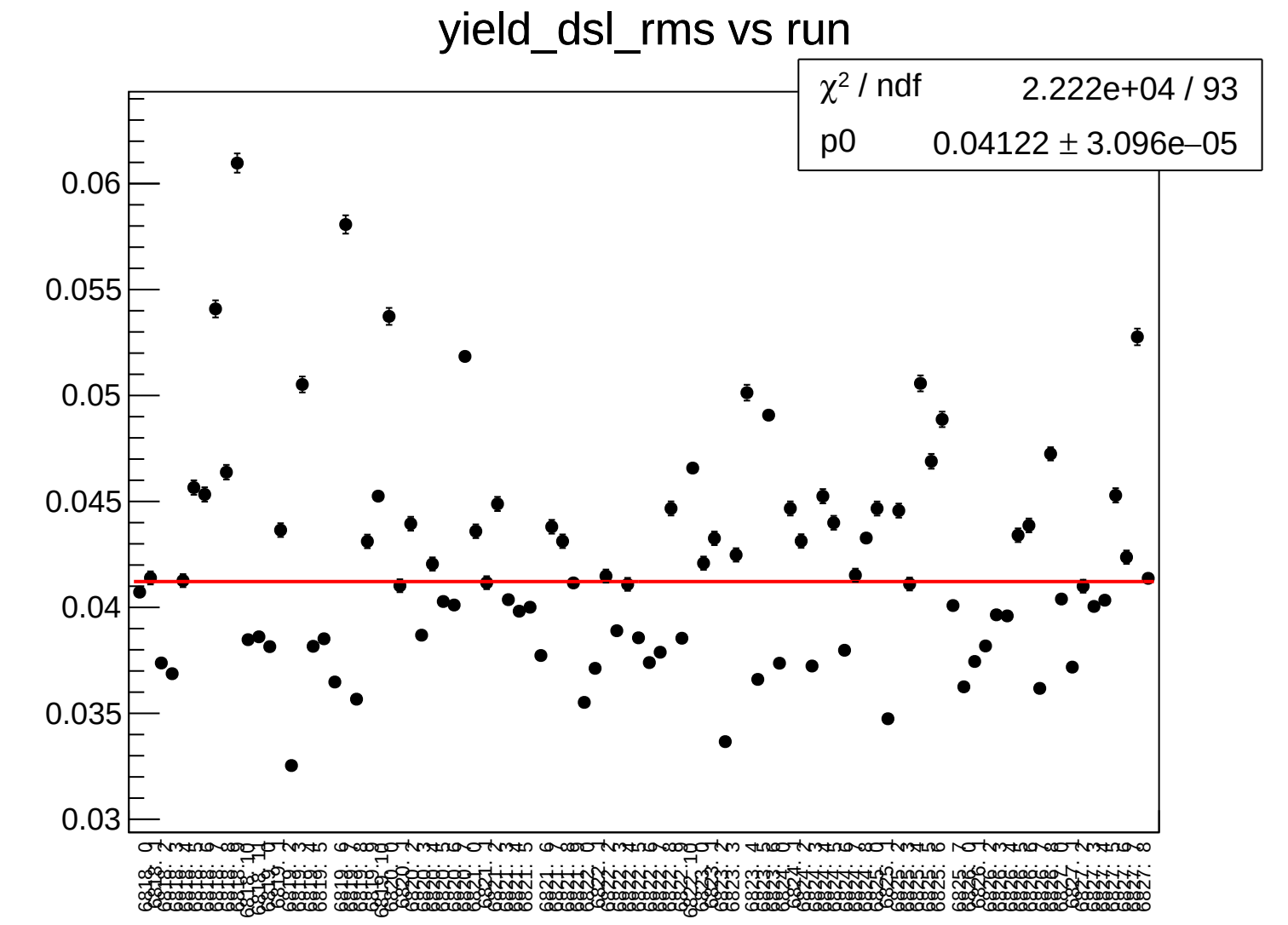

yield_usl_rms vs run
χ² / ndf 1.347e+05 / 93
p0 0.07145 ± 5.545e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

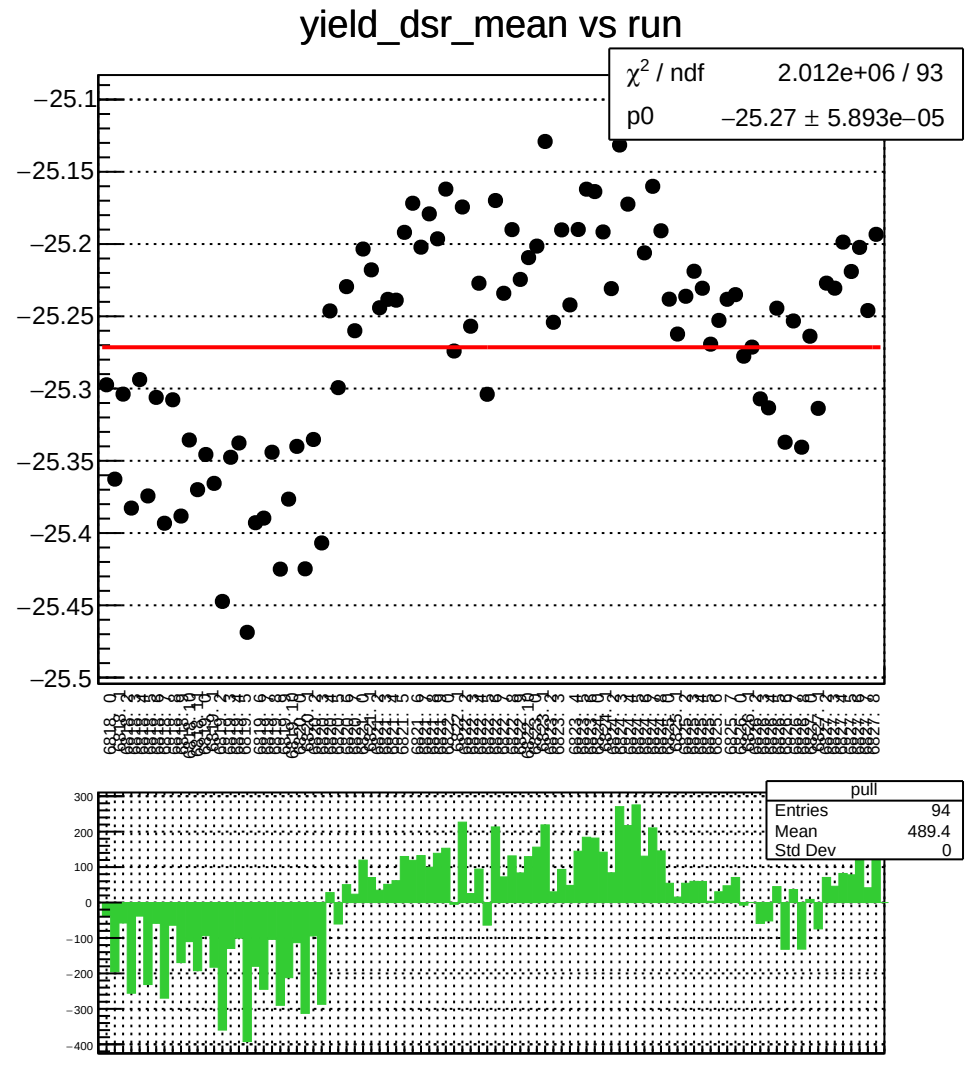

yield_usr_mean vs run
χ² / ndf 2.089e+05 / 93
p0 32.91± 7.626e−05
33.05
33
32.95
32.9
32.85
pull
Entries 94
Mean −54.59
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.6215
Std Dev 4.05
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

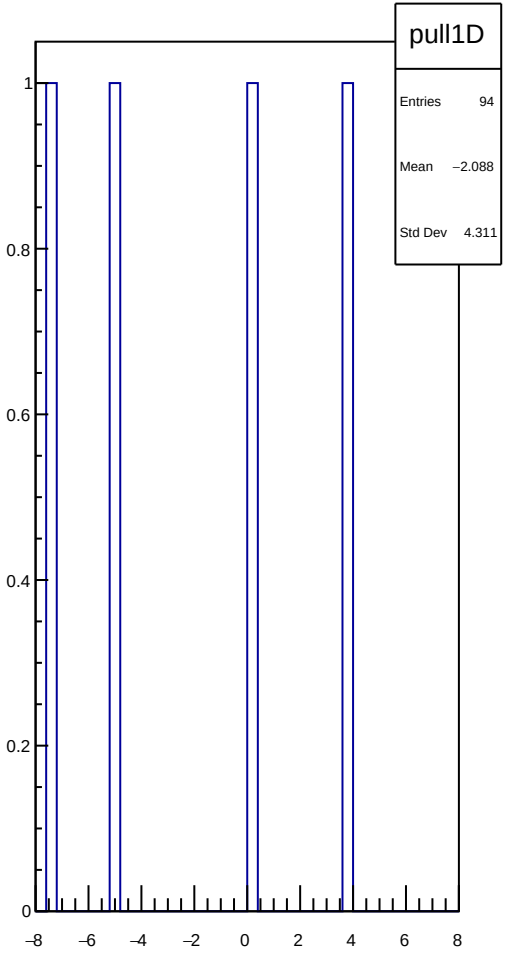

yield_usr_rms vs run
χ² / ndf 1.15e+05 / 93
p0 0.0699 ± 5.393e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

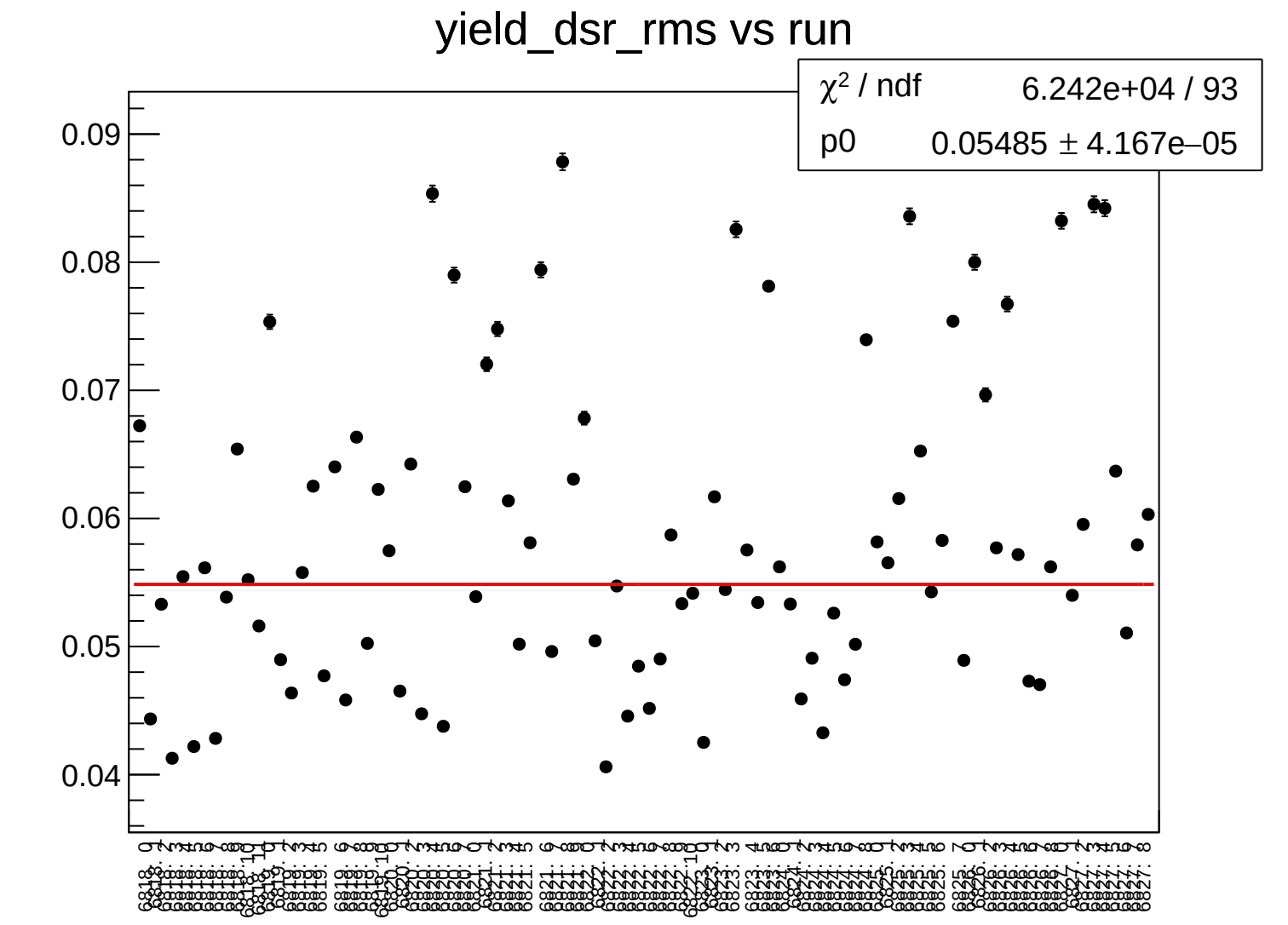

yield_dsl_mean vs run
χ² / ndf 4.4e+06 / 93
p0 −25.57 ± 4.378e−05
−25.3
−25.4
−25.5
−25.6
−25.7
−25.8
pull
Entries 94
Mean −1.033e+04
Std Dev 0
600
400
200
0
−200
−400
−600

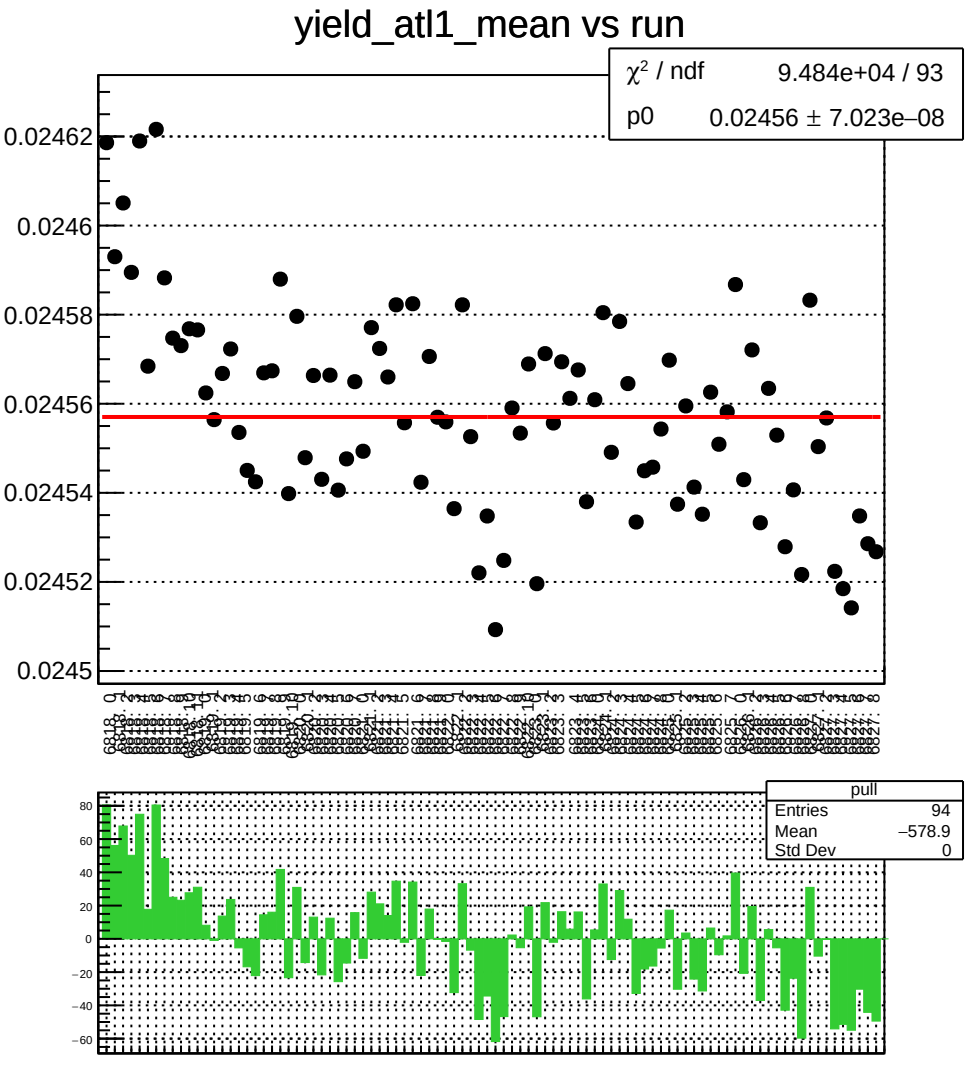

pull1D
Entries 94
Mean 2.049
Std Dev 3.953
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

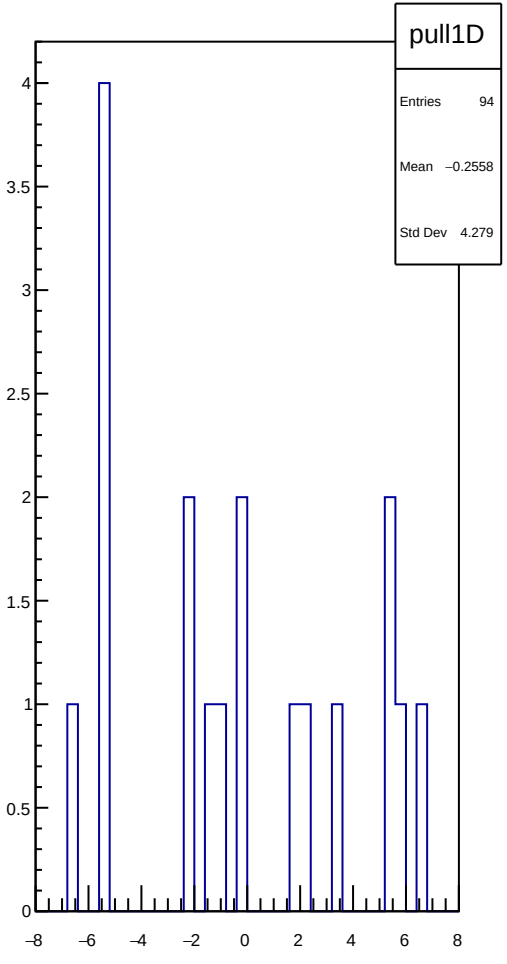

yield_dsl_rms vs run
χ² / ndf 2.222e+04 / 93
p0 0.04122 ± 3.096e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03

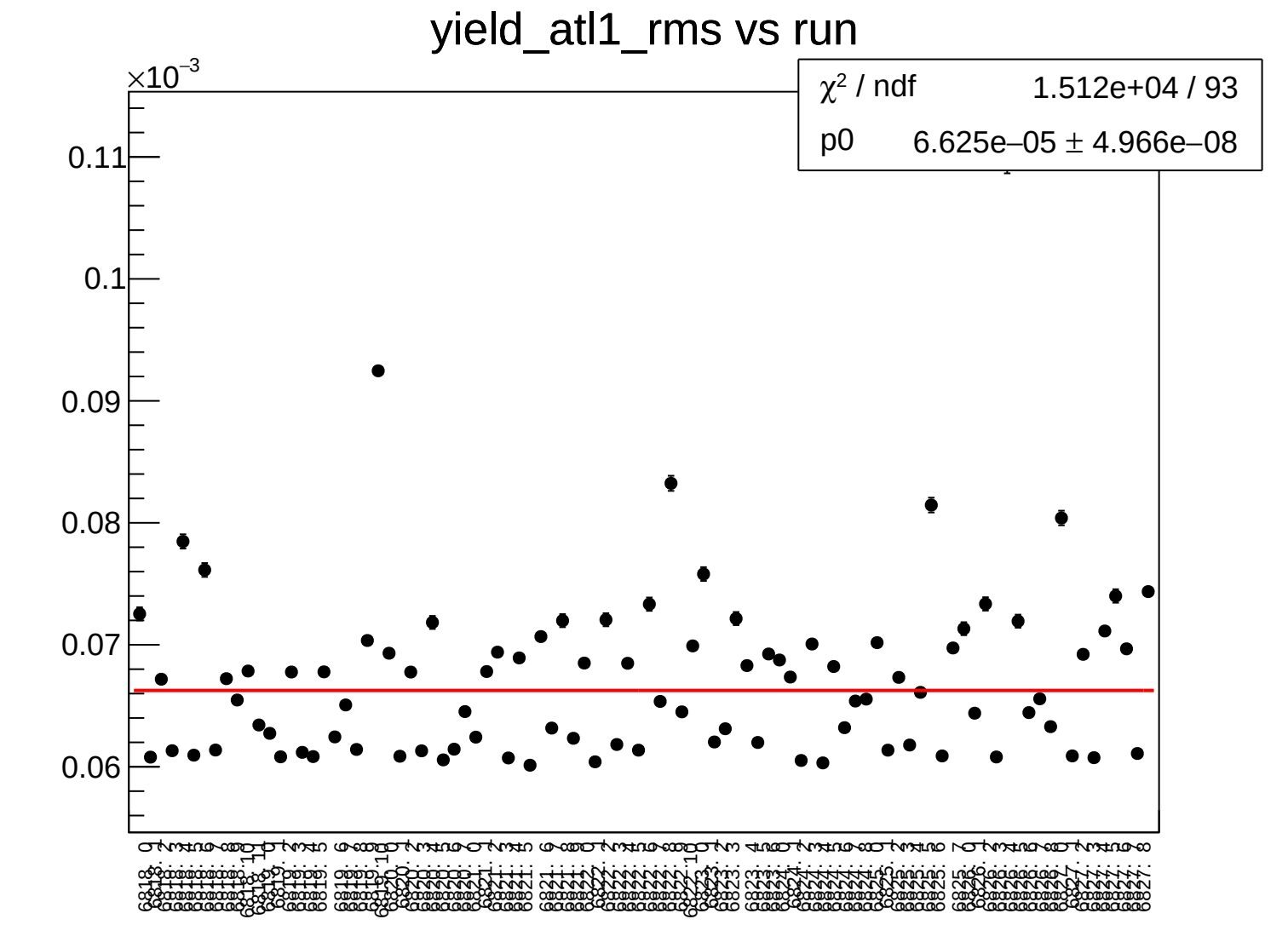

yield_dsr_mean vs run
χ² / ndf 2.012e+06 / 93
p0 −25.27 ± 5.893e−05
−25.1
−25.15
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
pull
Entries 94
Mean 489.4
Std Dev 0
300
200
100
0
−100
−200
−300
−400

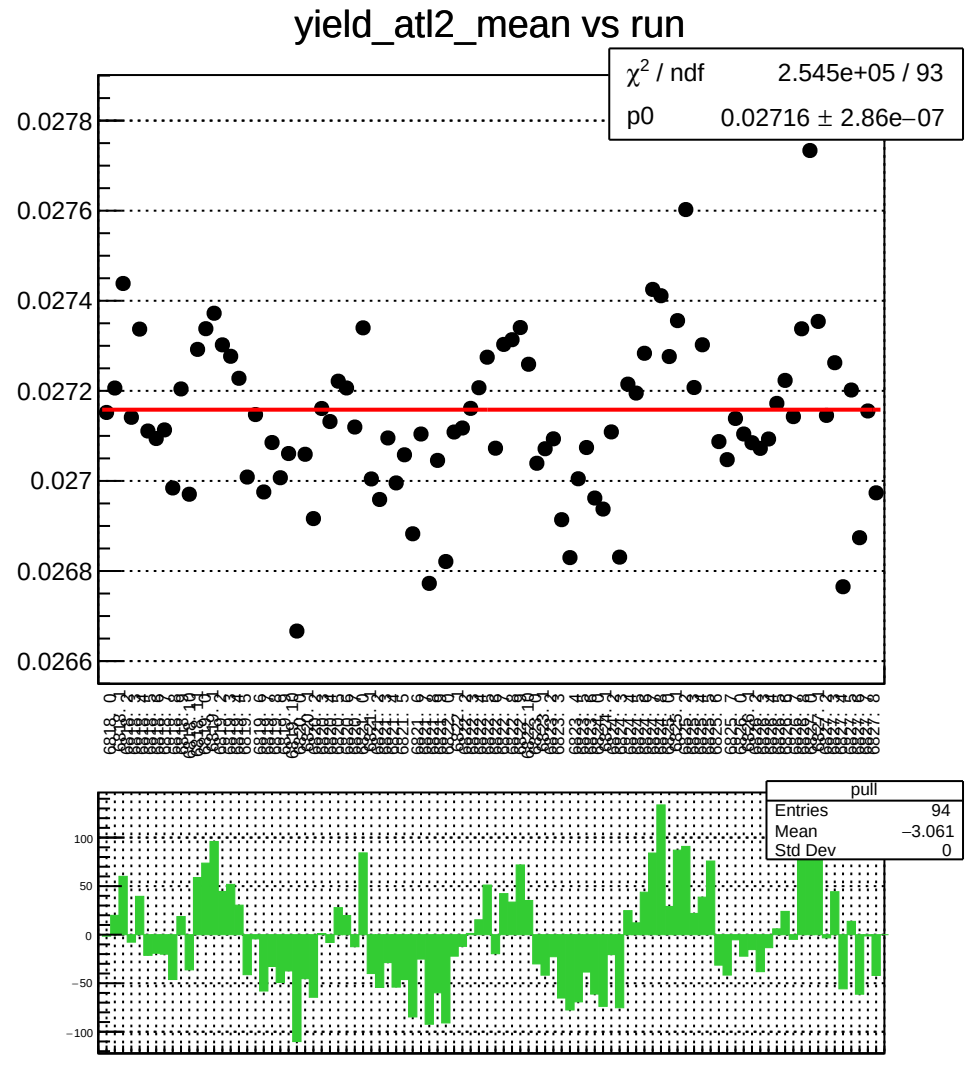

pull1D
Entries 94
Mean −2.088
Std Dev 4.311
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

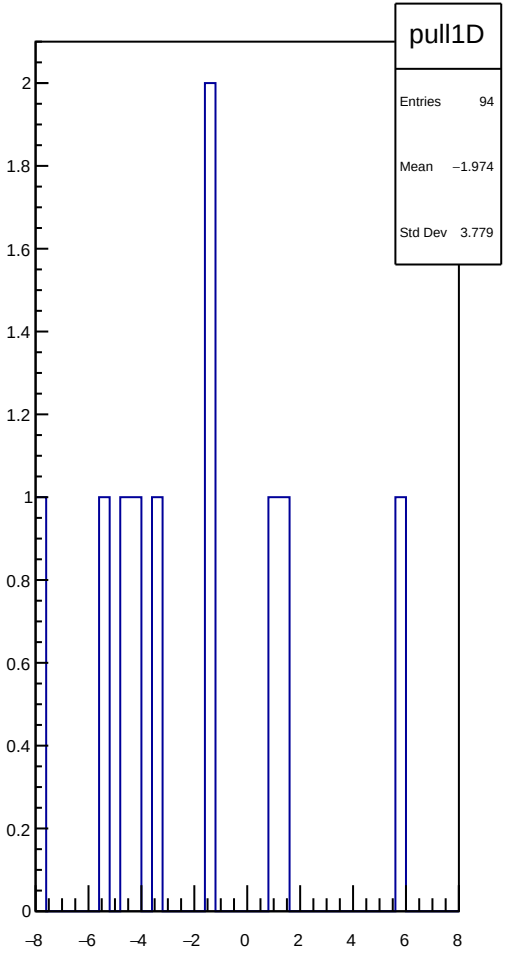

yield_dsr_rms vs run
χ² / ndf 6.242e+04 / 93
p0 0.05485 ± 4.167e–05
0.09
0.08
0.07
0.06
0.05
0.04

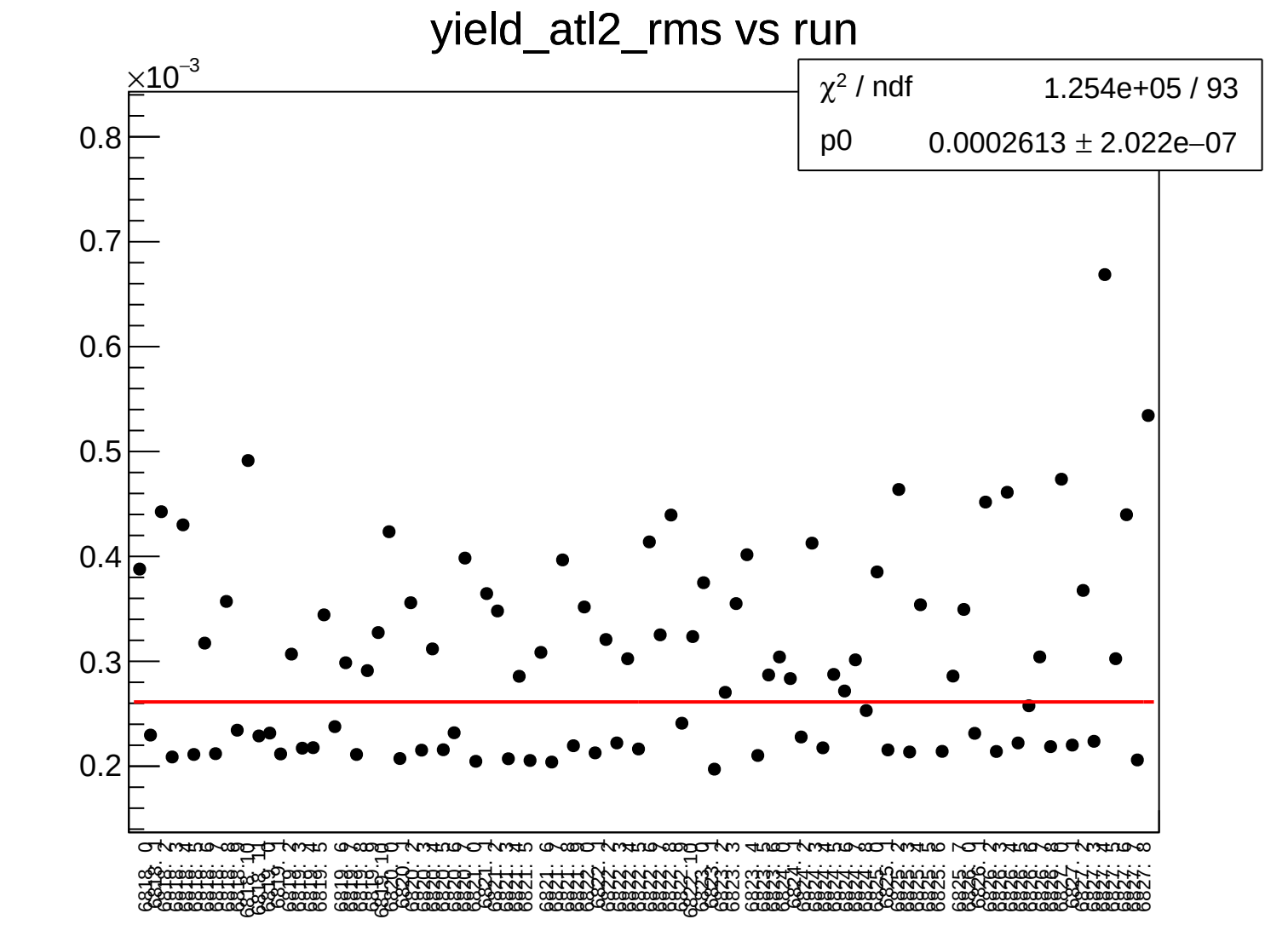

yield_atl1_mean vs run
χ² / ndf 9.484e+04 / 93
p0 0.02456 ± 7.023e−08
0.02462
0.0246
0.02458
0.02456
0.02454
0.02452
0.0245
pull
Entries 94
Mean −578.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

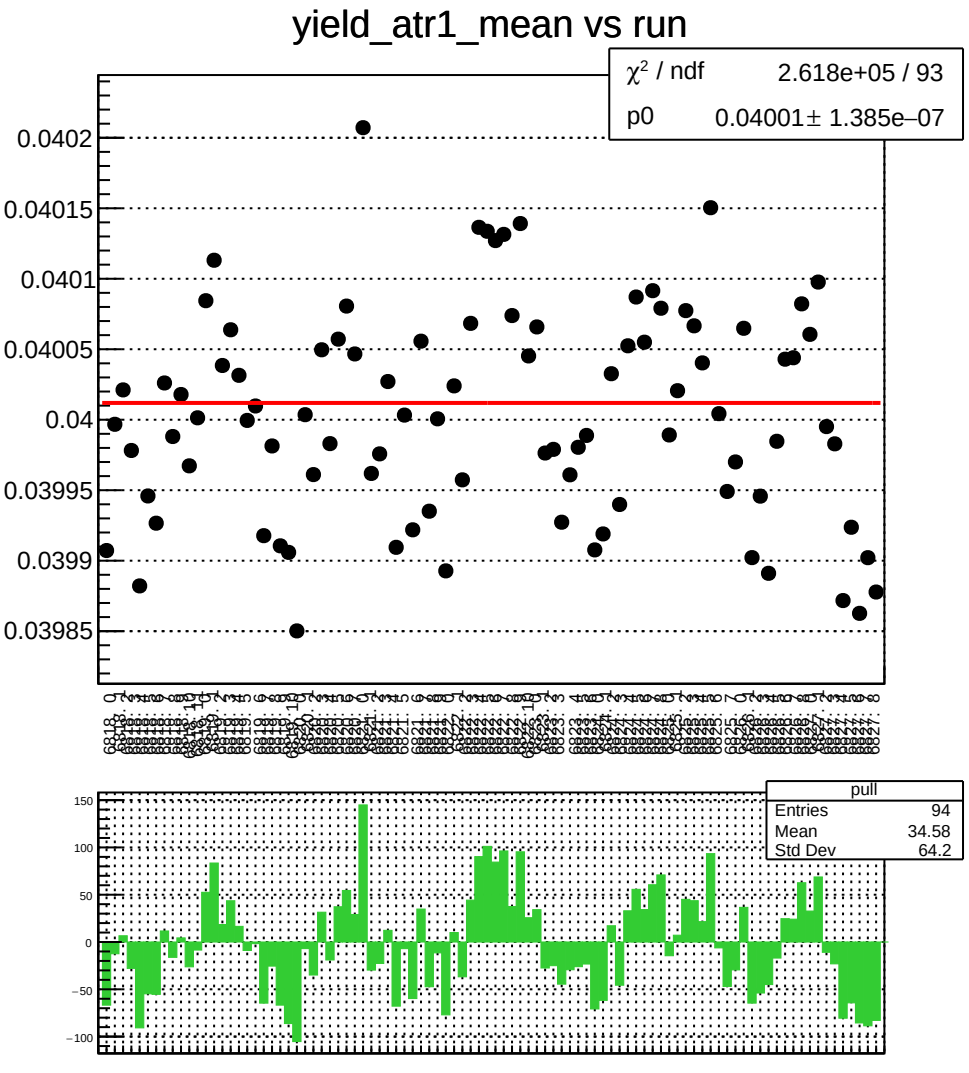

pull1D
Entries 94
Mean −0.2558
Std Dev 4.279
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

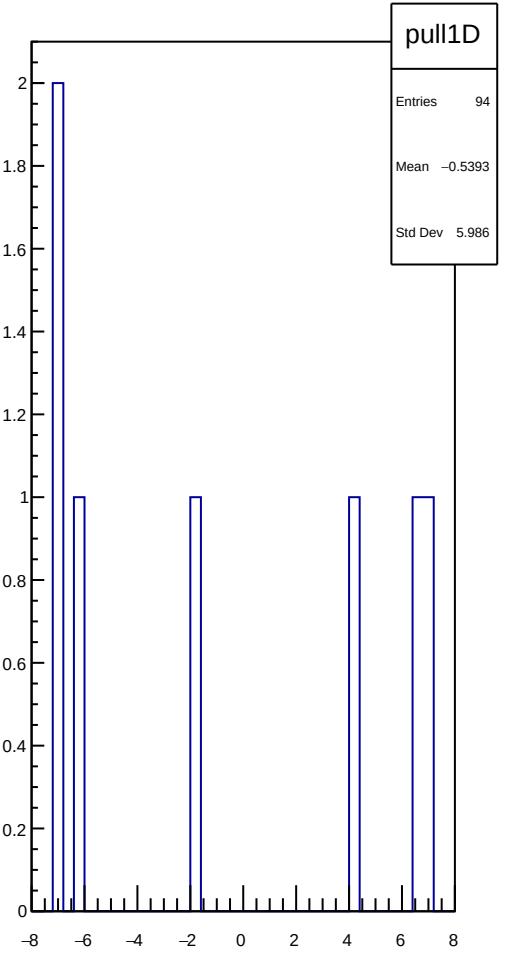

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.512e+04 / 93
p0 6.625e−05 ± 4.966e−08
0.11
0.1
0.09
0.08
0.07
0.06

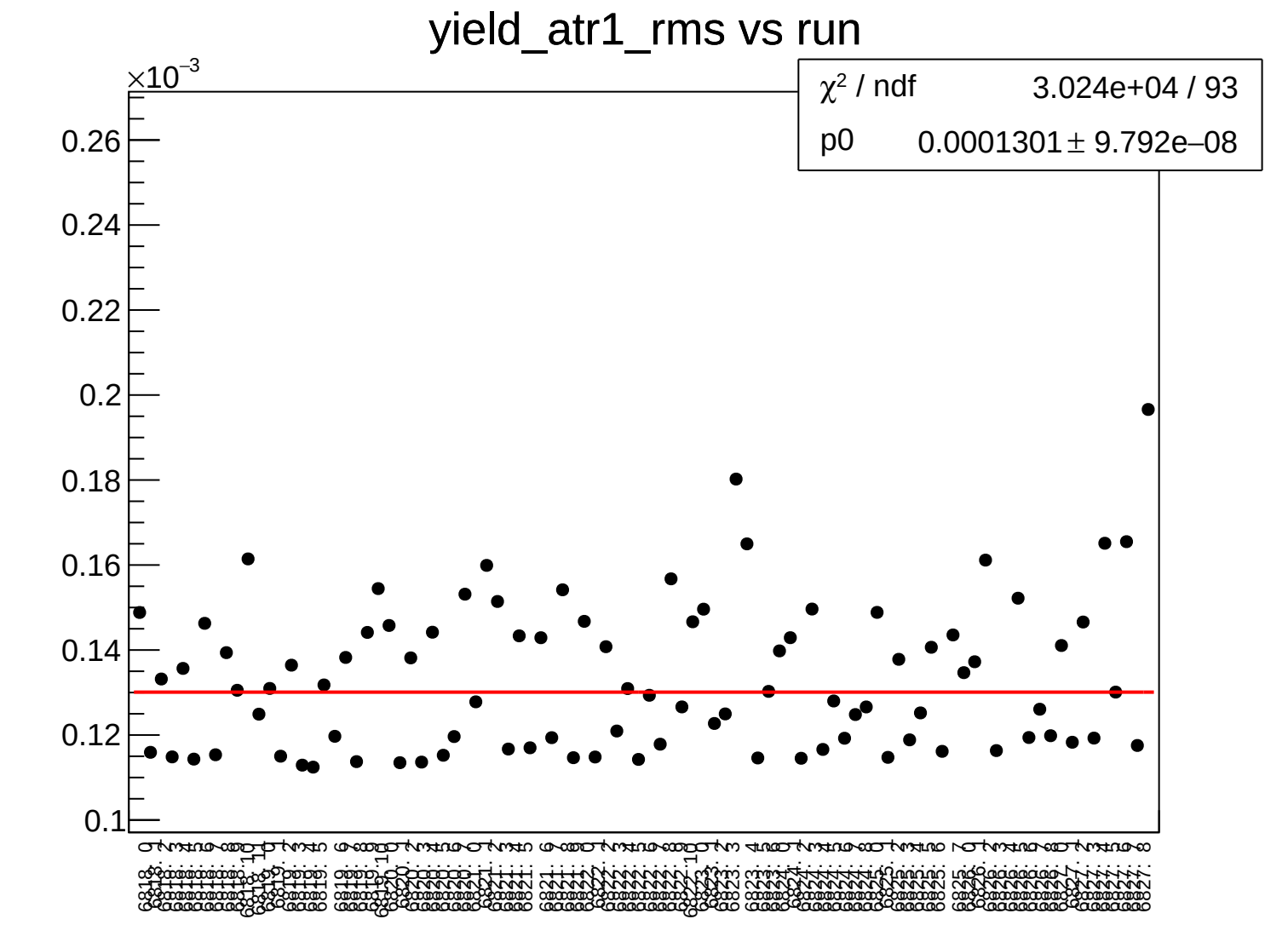

yield_atl2_mean vs run
χ² / ndf 2.545e+05 / 93
p0 0.02716 ± 2.86e−07
0.0278
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
pull
Entries 94
Mean −3.061
Std Dev 0
100
50
0
−50
−100

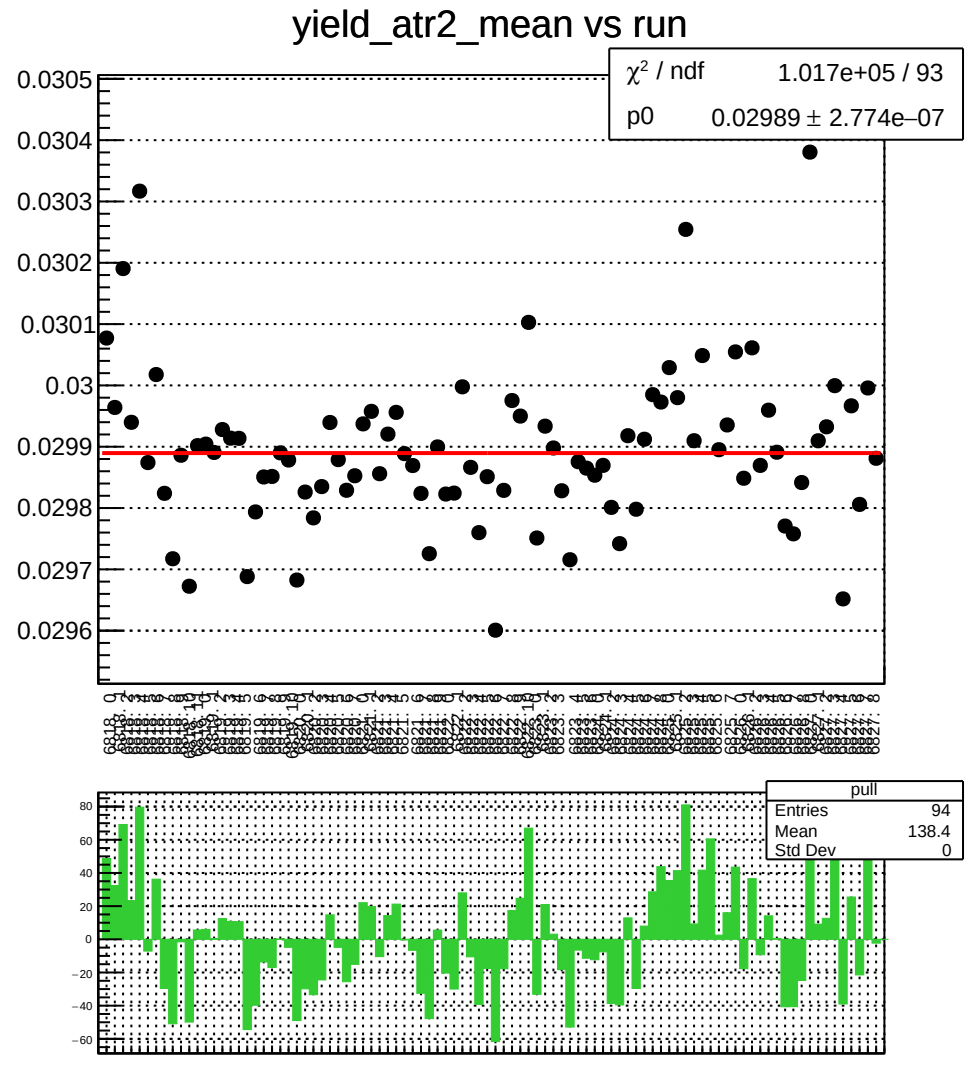

pull1D
Entries 94
Mean −1.974
Std Dev 3.779
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

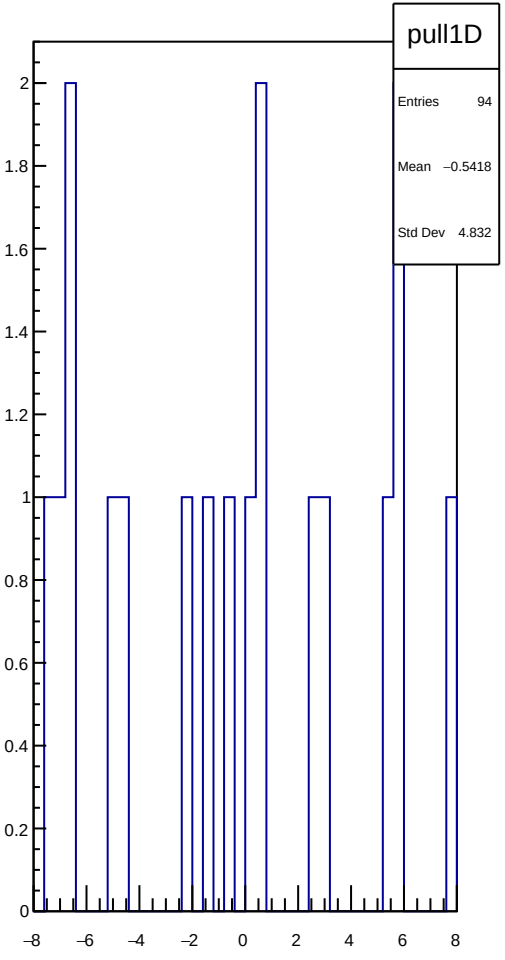

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.254e+05 / 93
p0 0.0002613 ± 2.022e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

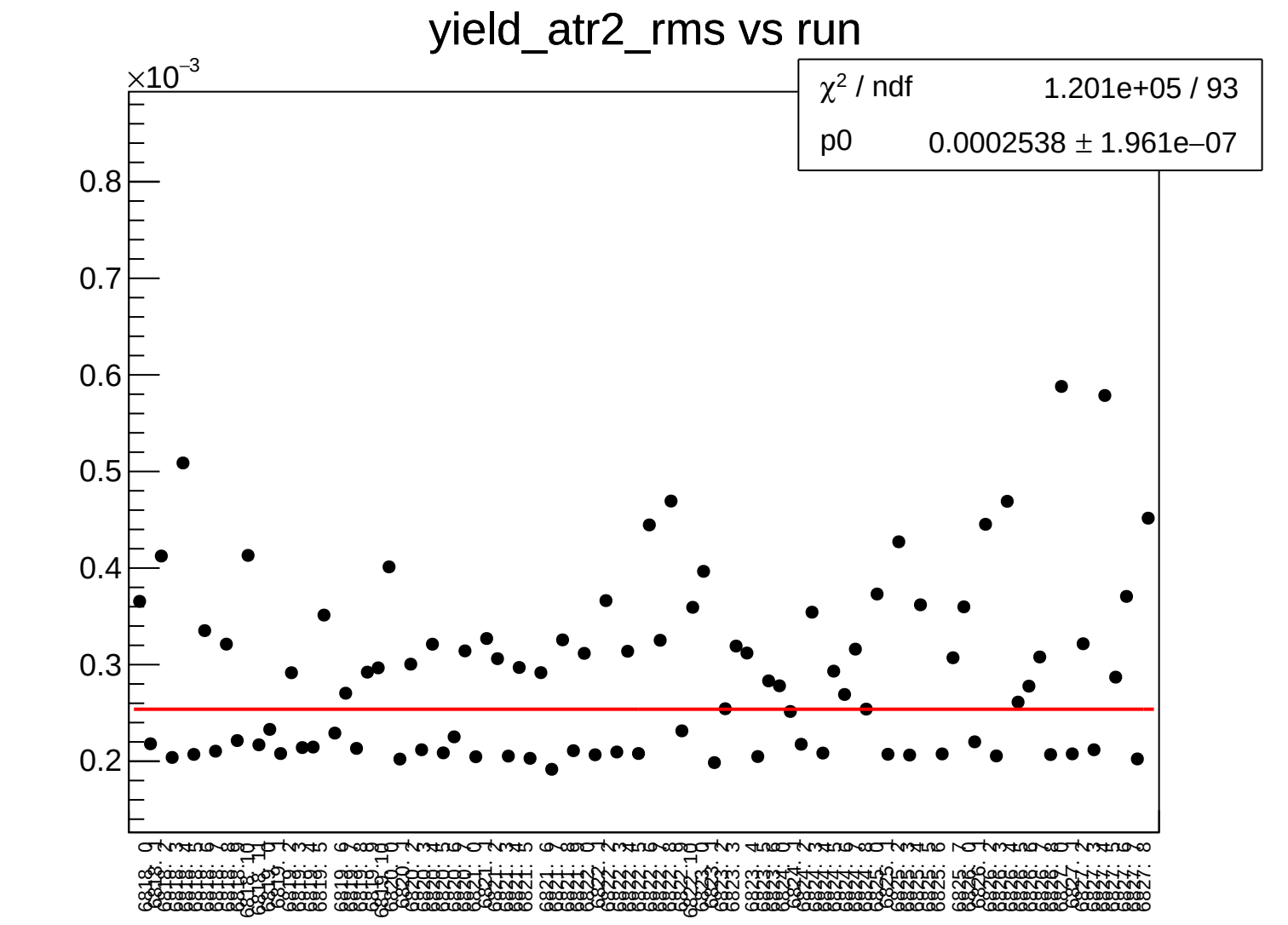

yield_atr1_mean vs run
χ² / ndf 2.618e+05 / 93
p0 0.04001± 1.385e−07
0.0402
0.04015
0.0401
0.04005
0.04
0.03995
0.0399
0.03985
pull
Entries 94
Mean 34.58
Std Dev 64.2
150
100
50
0
−50
−100

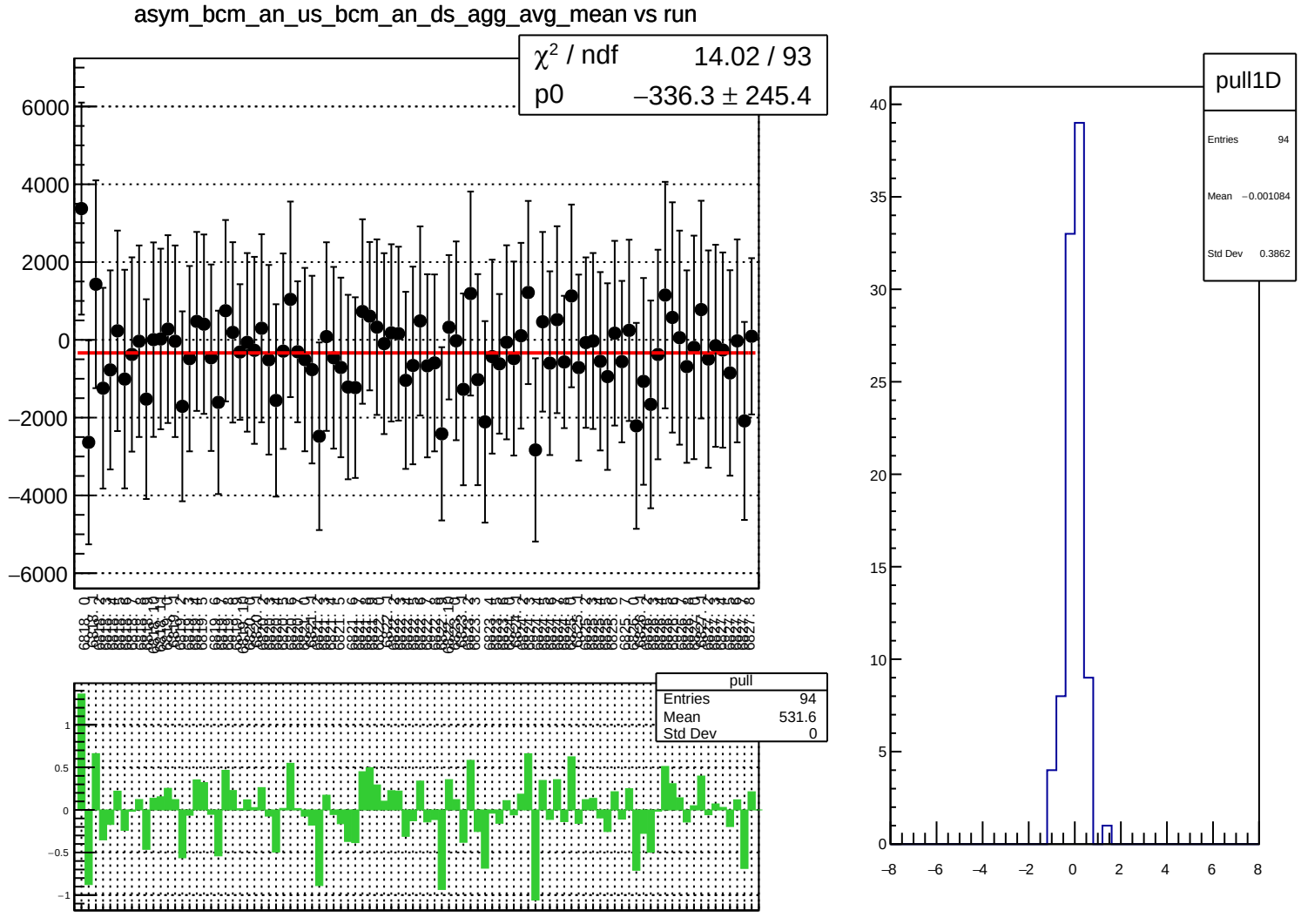

pull1D
Entries 94
Mean −0.5393
Std Dev 5.986
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

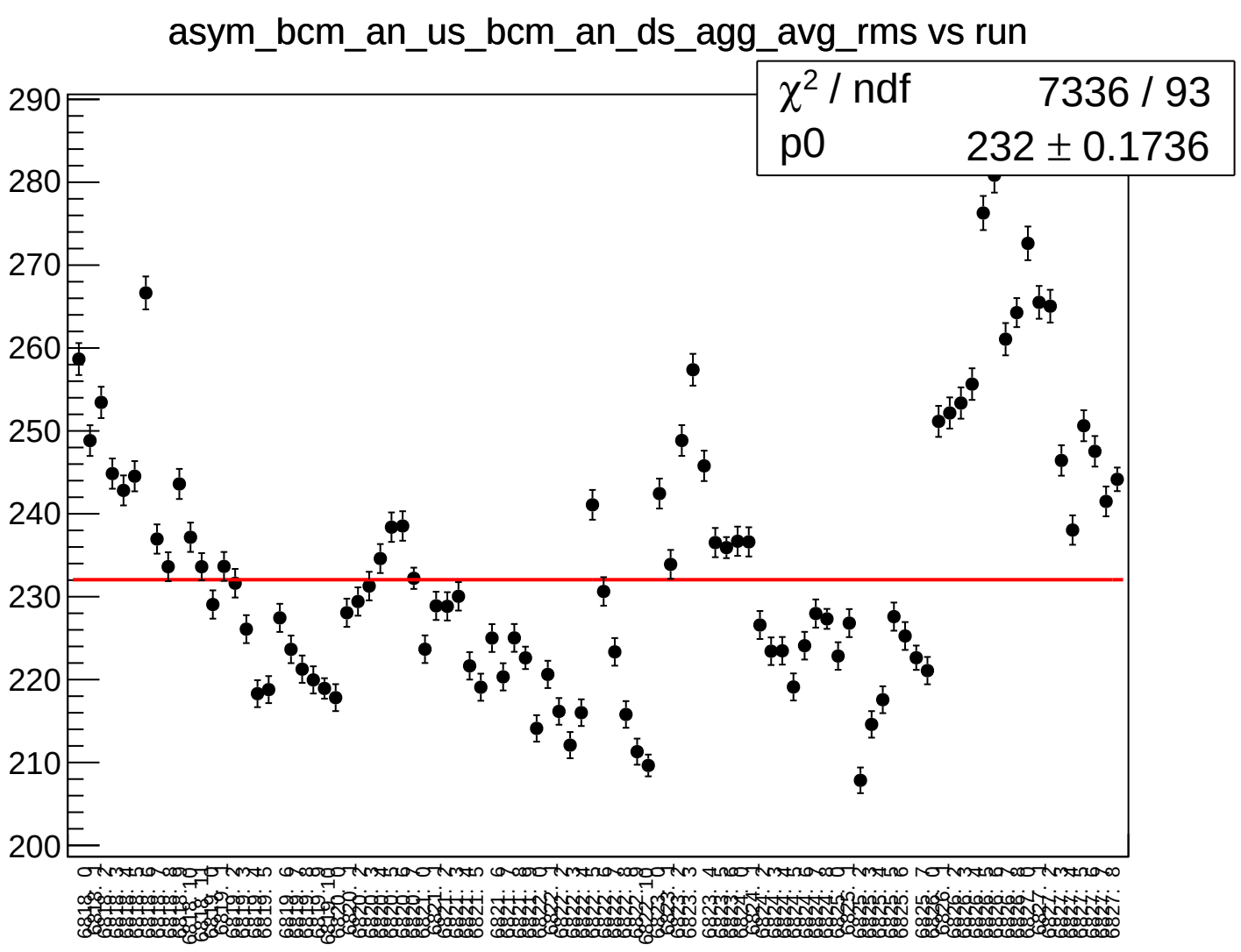

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.024e+04 / 93
p0 0.0001301 ± 9.792e−08
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

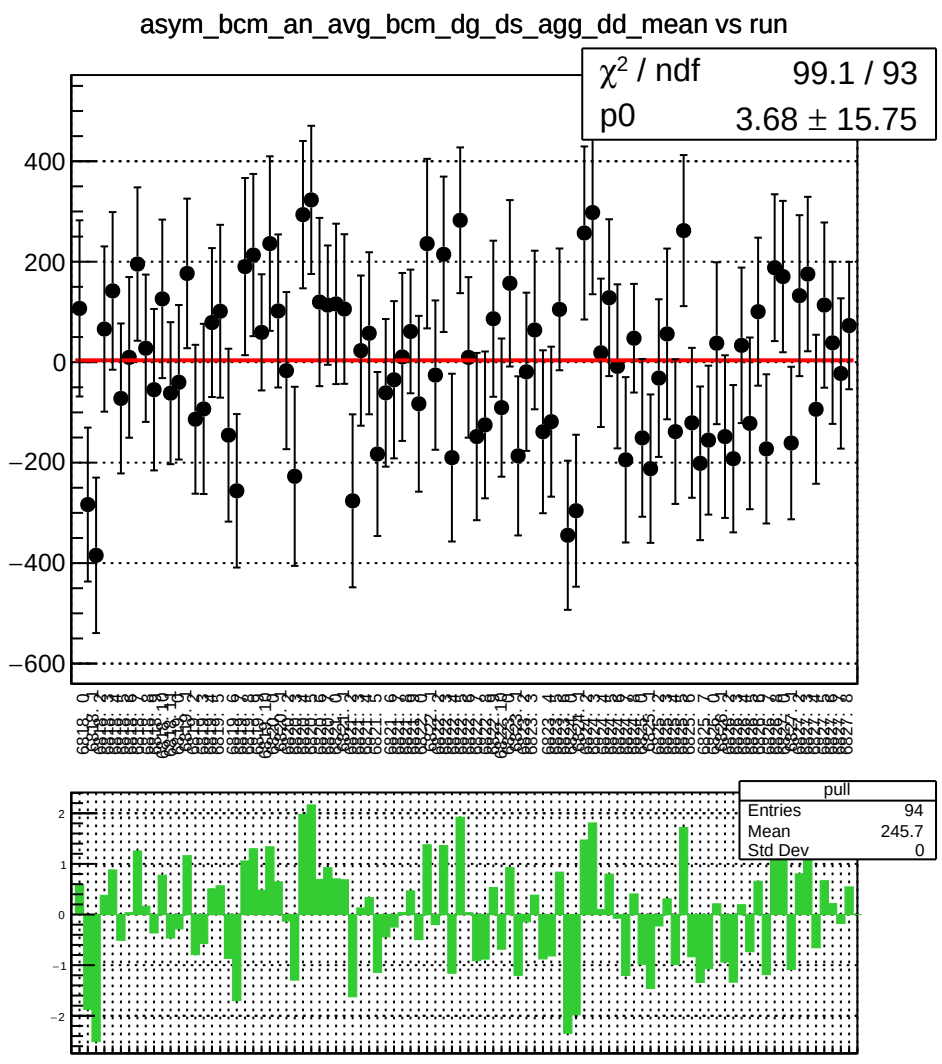

yield_atr2_mean vs run
χ² / ndf 1.017e+05 / 93
p0 0.02989 ± 2.774e−07
0.0305
0.0304
0.0303
0.0302
0.0301
0.03
0.0299
0.0298
0.0297
0.0296
pull
Entries 94
Mean 138.4
Std Dev 0
80
60
40
20
0
−20
−40
−60

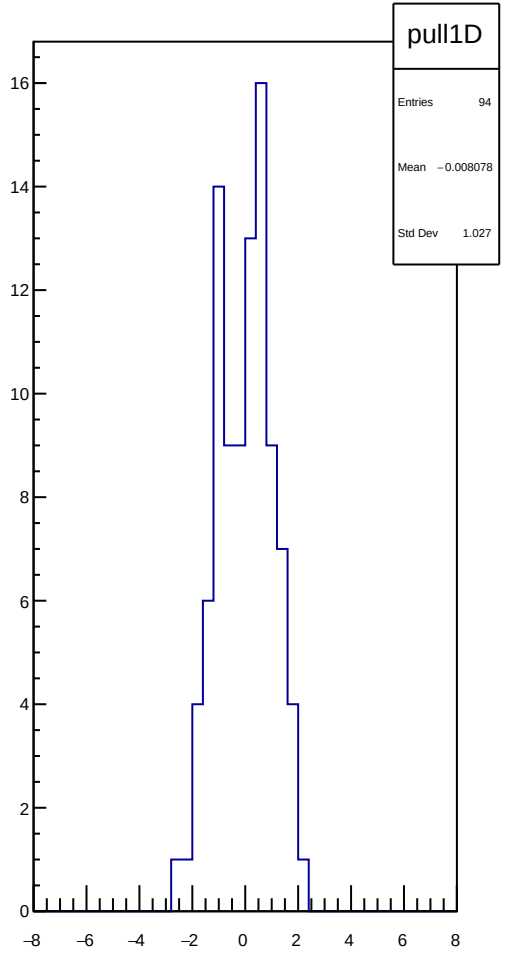

pull1D
Entries 94
Mean −0.5418
Std Dev 4.832
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

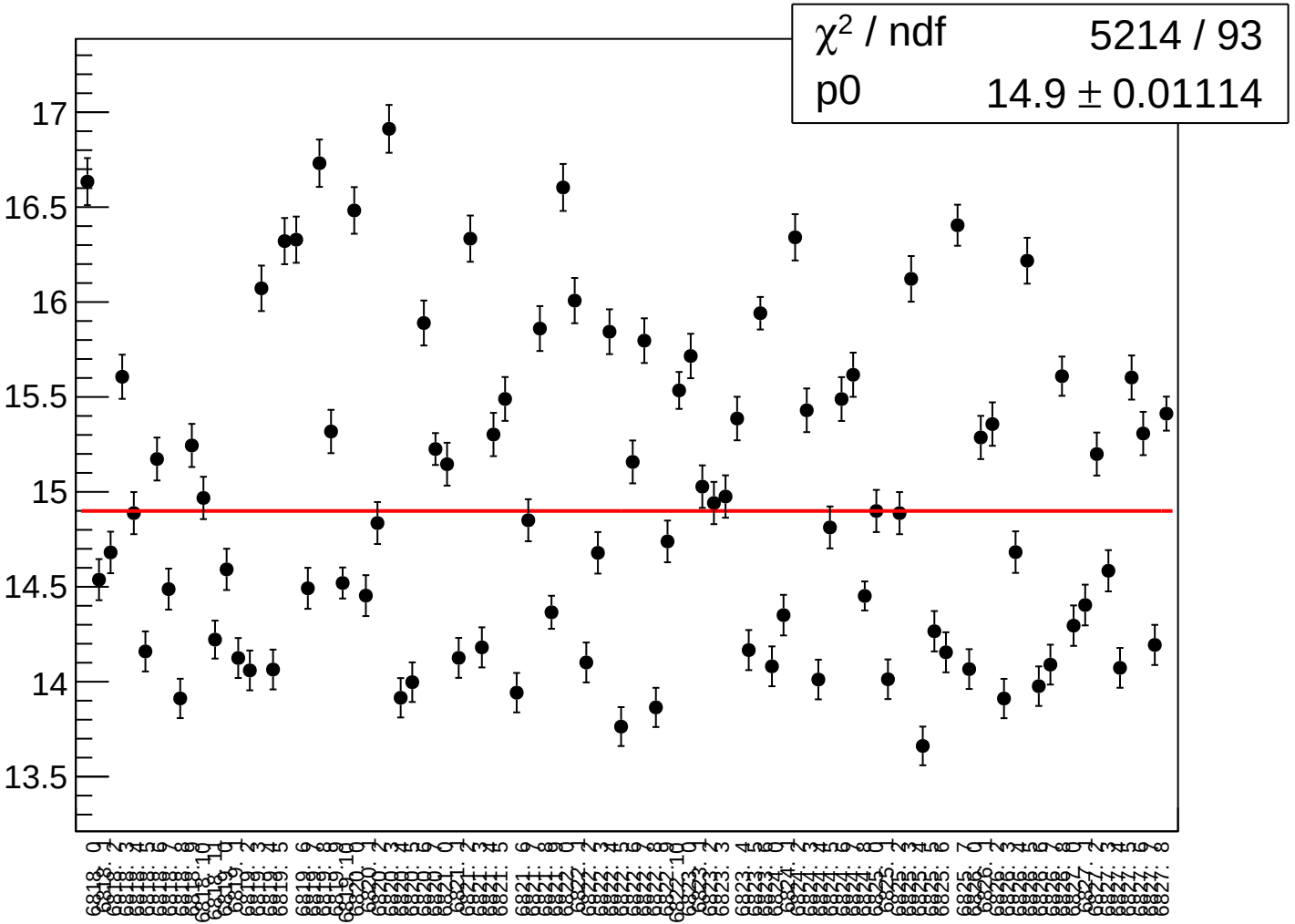

yield_atr2_rms vs run
×10⁻³
χ² / ndf 1.201e+05 / 93
p0 0.0002538 ± 1.961e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2

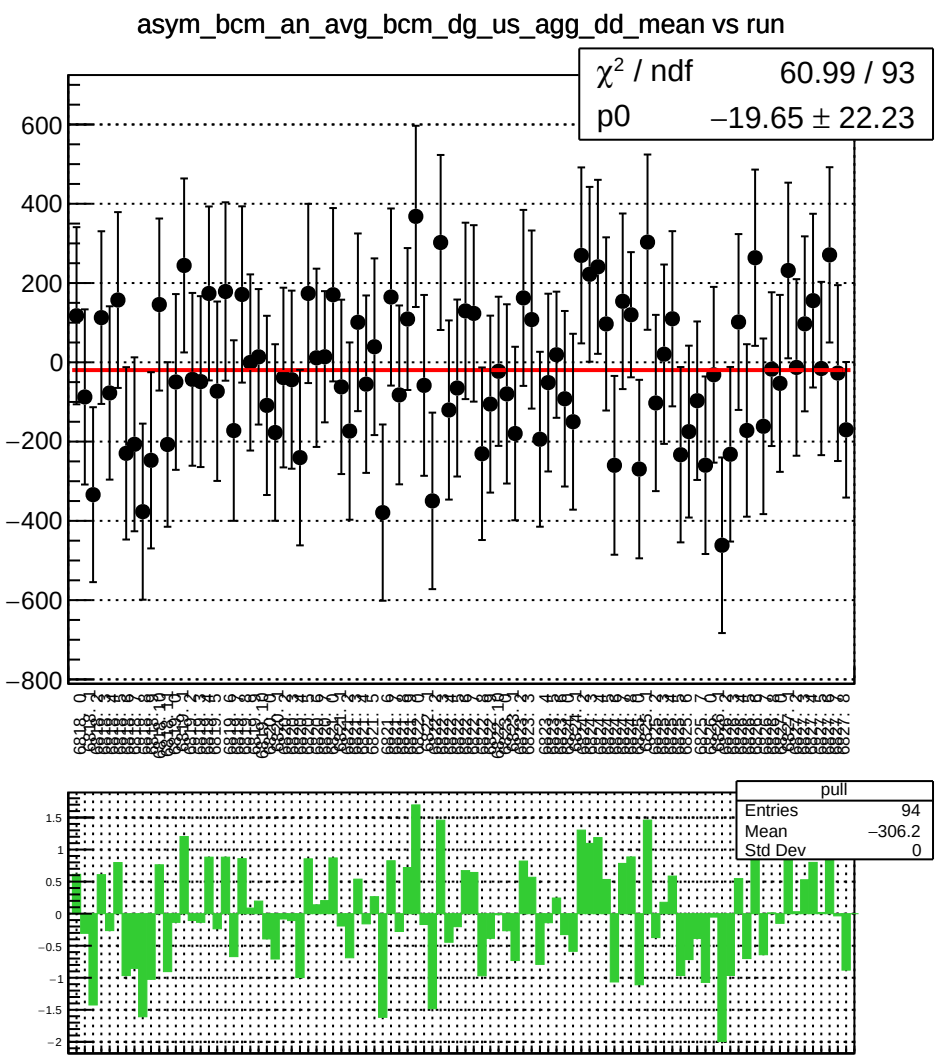

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.02 / 93
p0 −336.3 ± 245.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 531.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001084
Std Dev 0.3862
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

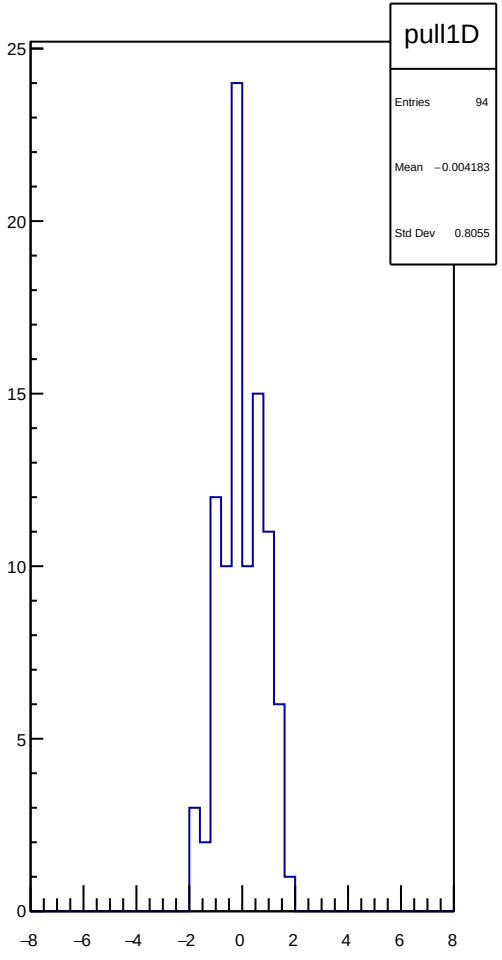

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7336 / 93
p0 232 ± 0.1736
290
280
270
260
250
240
230
220
210
200

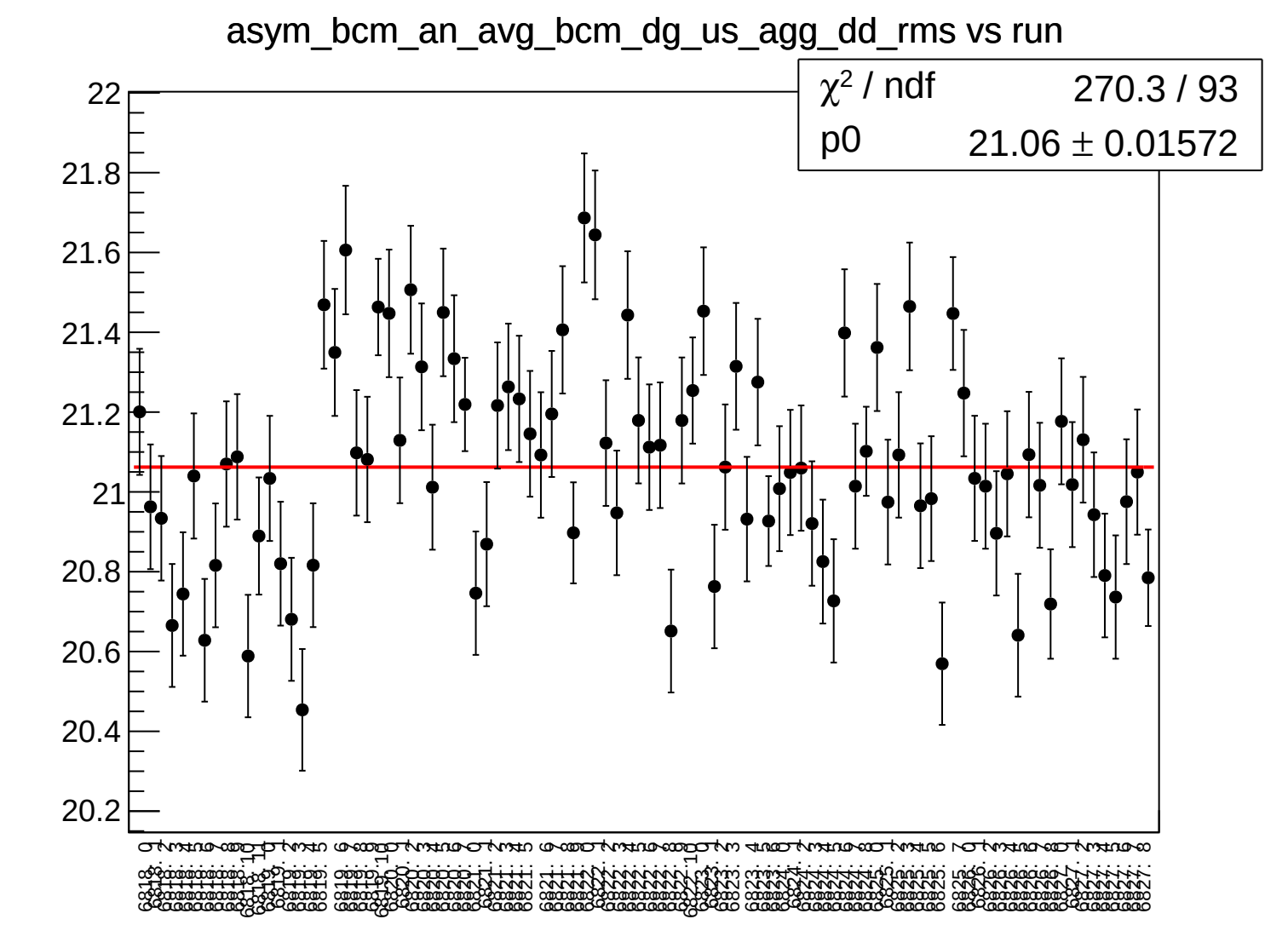

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 99.1 / 93
p0 3.68 ± 15.75
400
200
0
−200
−400
−600
pull
Entries 94
Mean 245.7
Std Dev 0
2
1
0
−1
−2

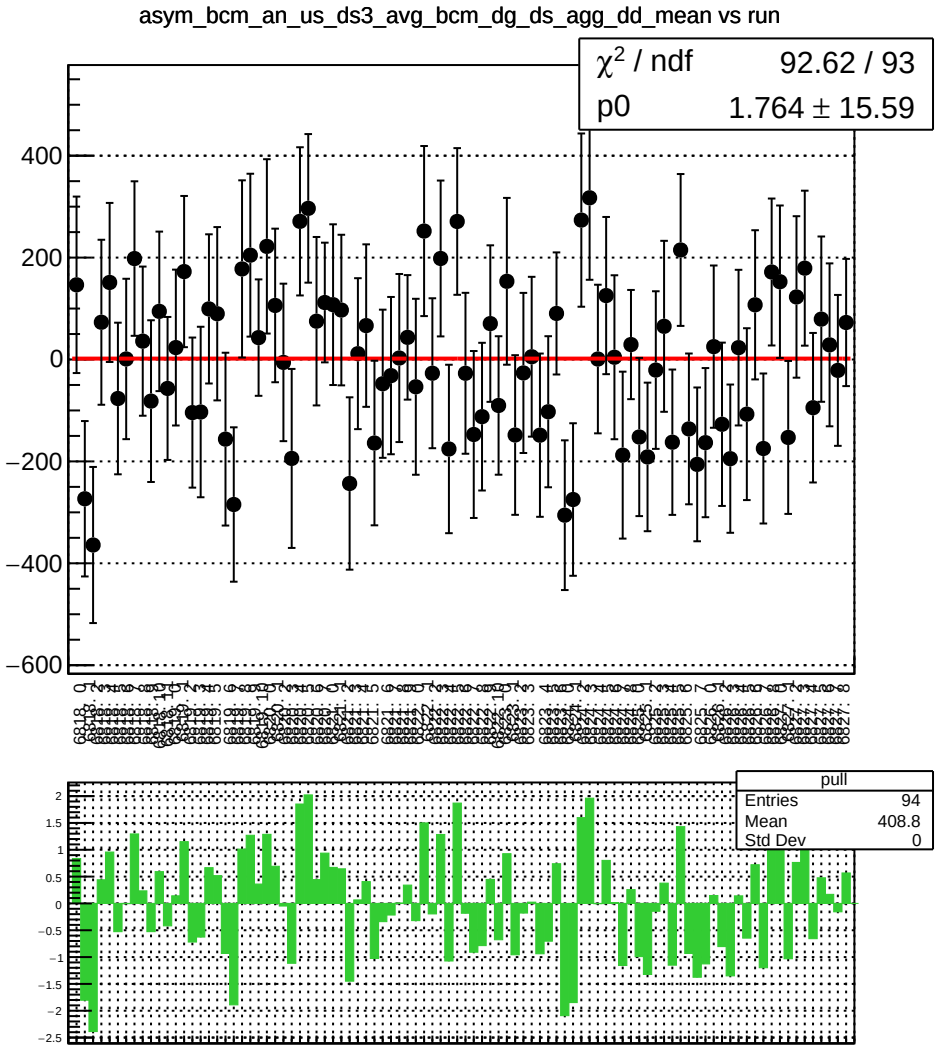

pull1D
Entries 94
Mean −0.008078
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

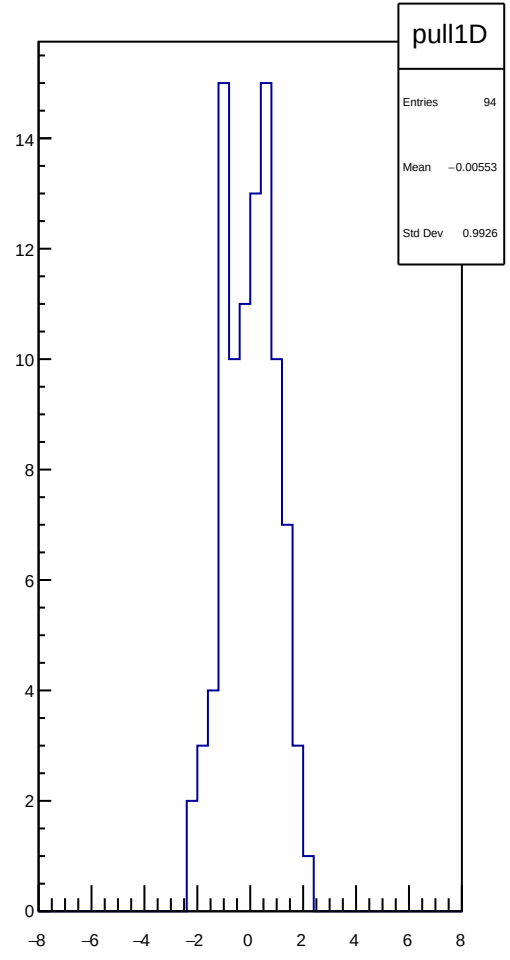

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5214 / 93
p0 14.9 ± 0.01114
17
16.5
16
15.5
15
14.5
14
13.5

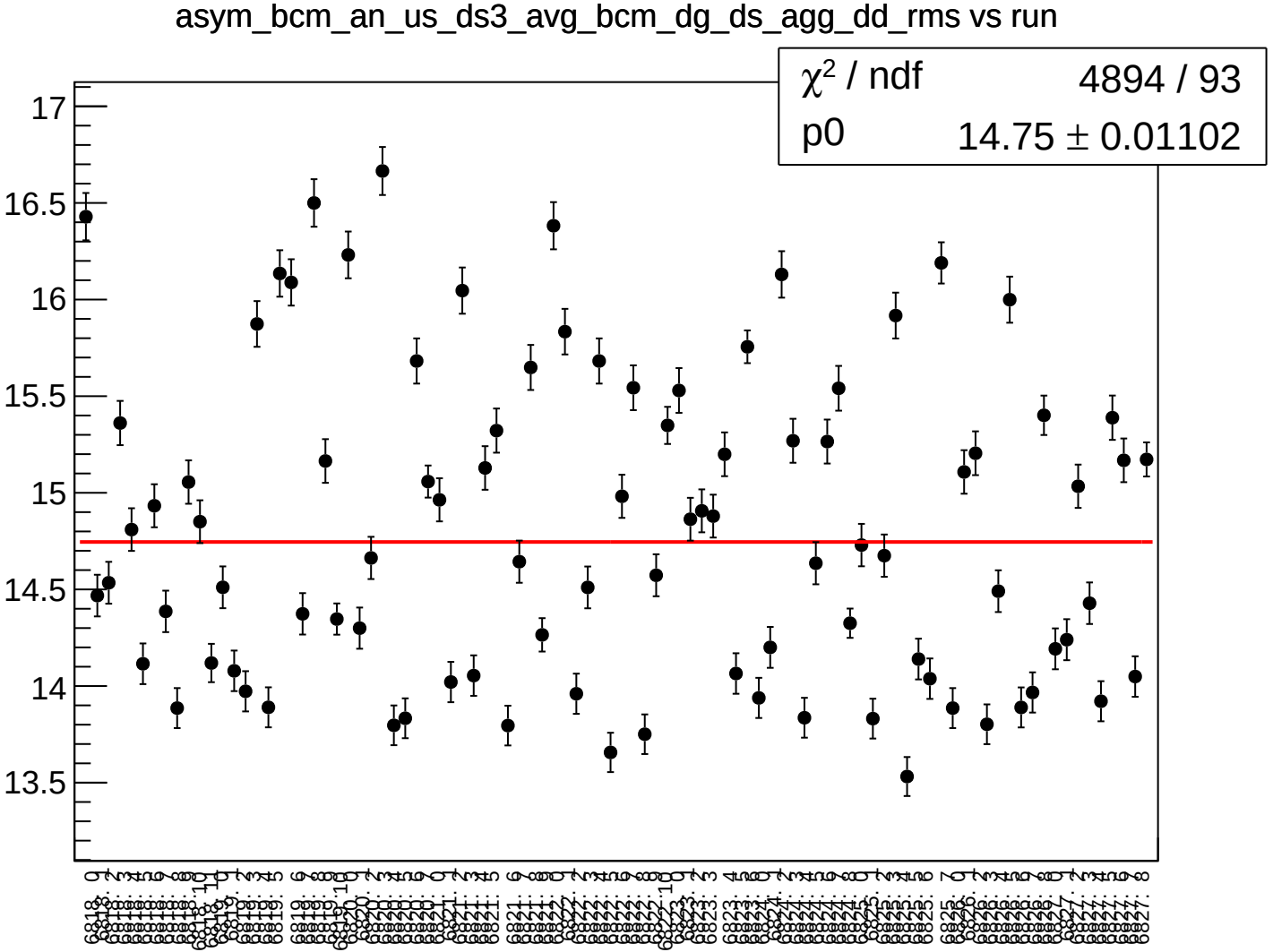

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.99 / 93
p0 −19.65 ± 22.23
pull
Entries 94
Mean −306.2
Std Dev 0

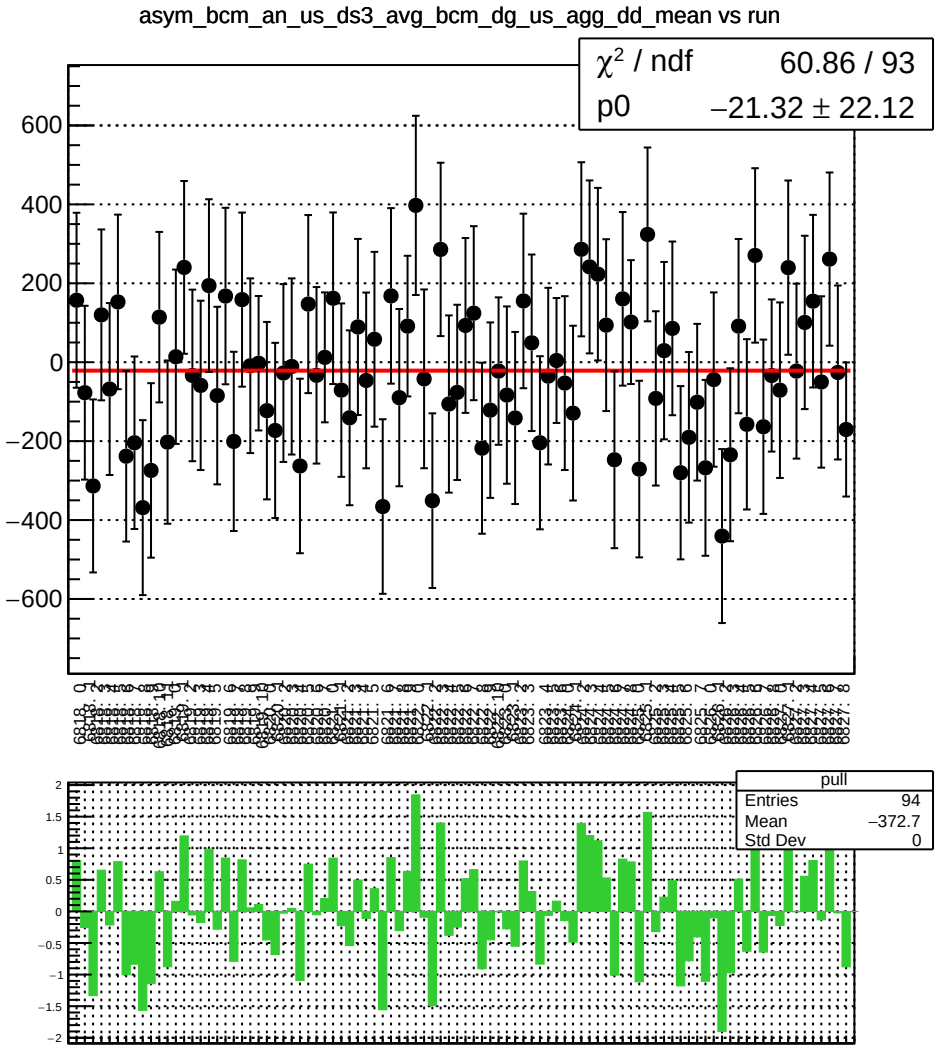

pull1D
Entries 94
Mean −0.004183
Std Dev 0.8055

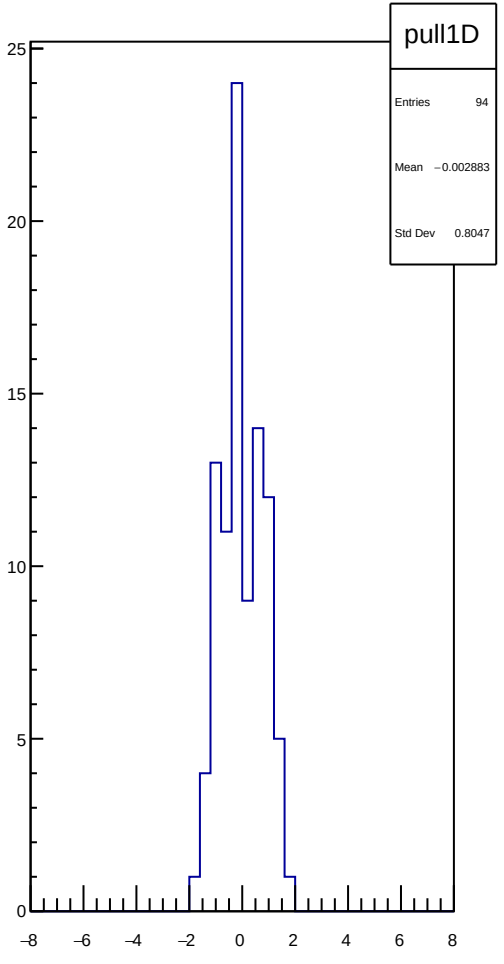

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 270.3 / 93
p0 21.06 ± 0.01572
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

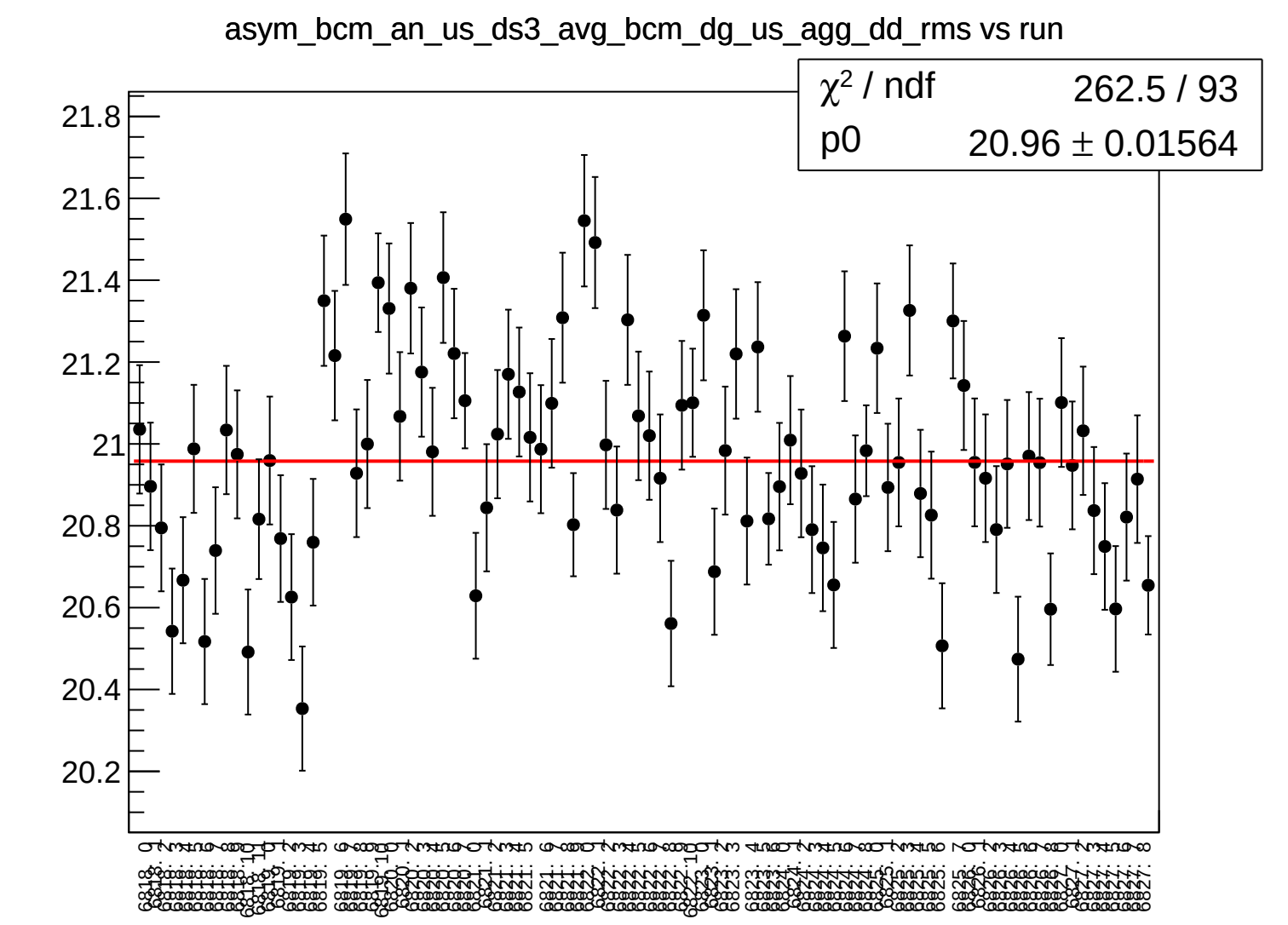

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 92.62 / 93
p0 1.764 ± 15.59
pull
Entries 94
Mean 408.8
Std Dev 0

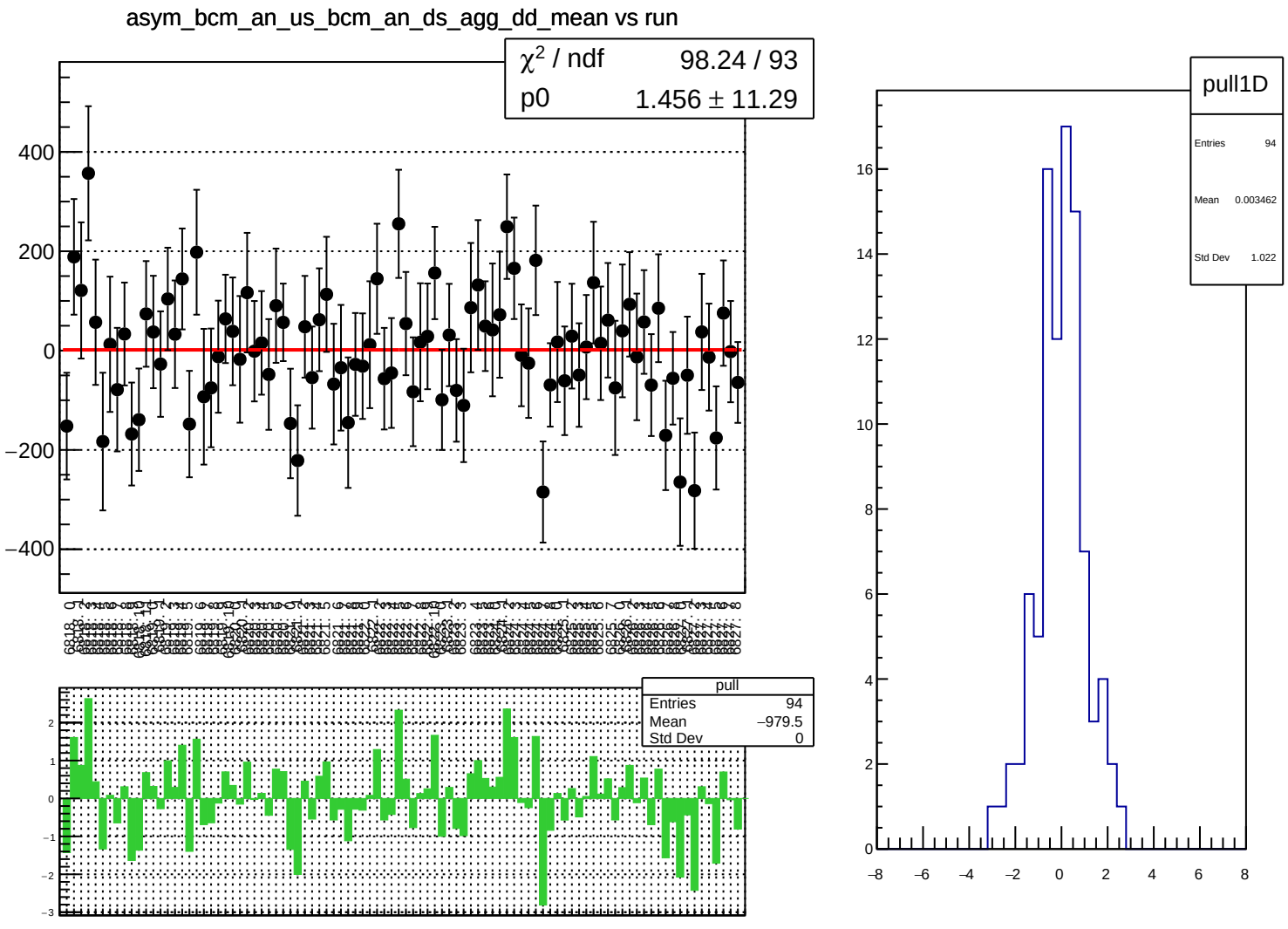

pull1D
Entries 94
Mean −0.00553
Std Dev 0.9926

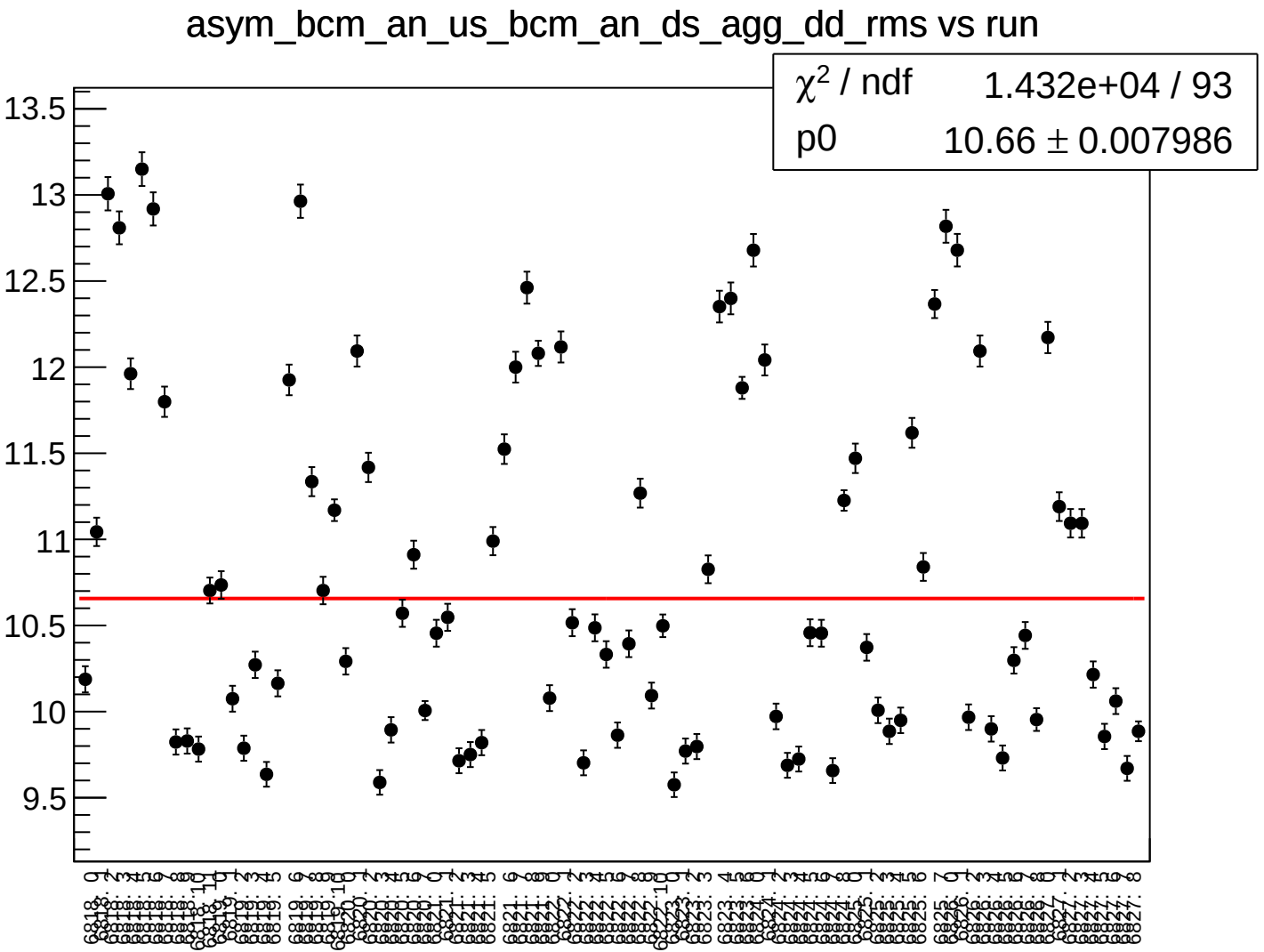

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4894 / 93
p0 14.75 ± 0.01102
17
16.5
16
15.5
15
14.5
14
13.5

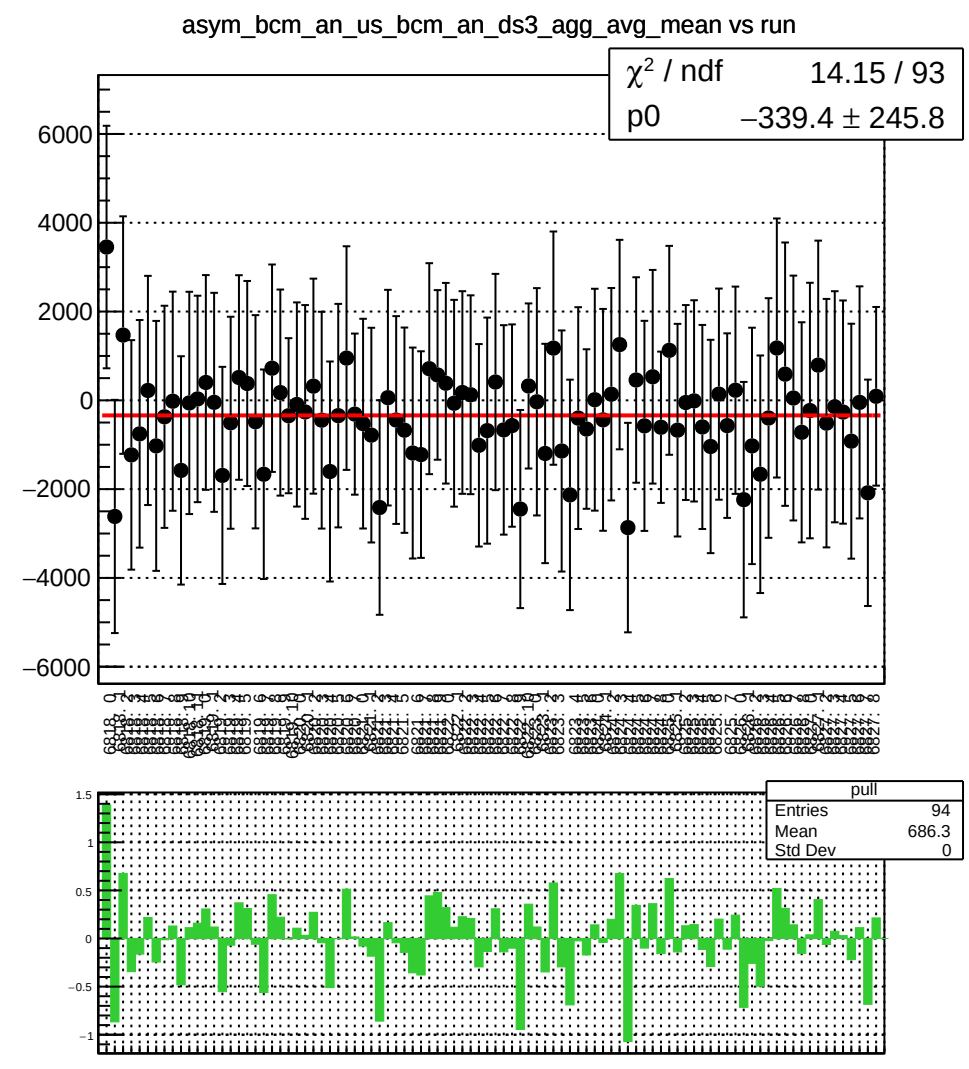

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 60.86 / 93
p0 −21.32 ± 22.12
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean −372.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

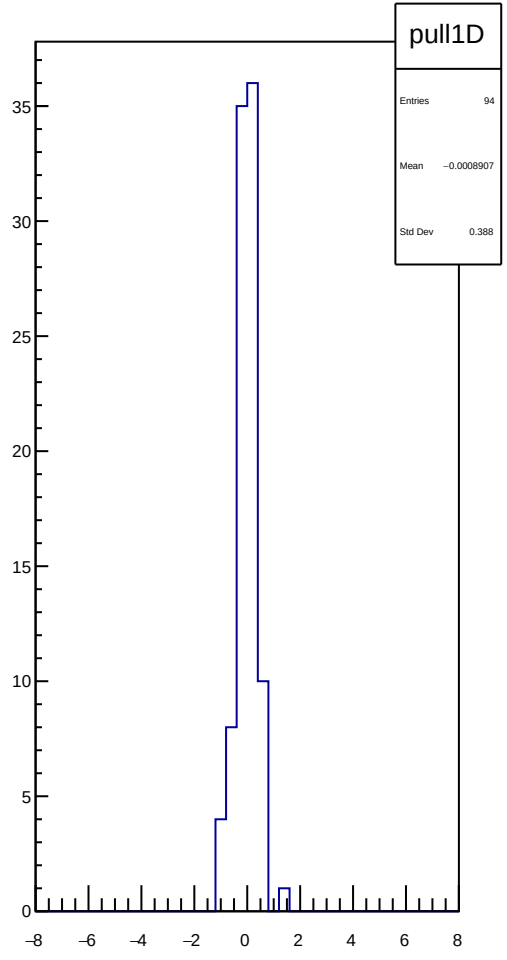

pull1D
Entries 94
Mean −0.002883
Std Dev 0.8047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

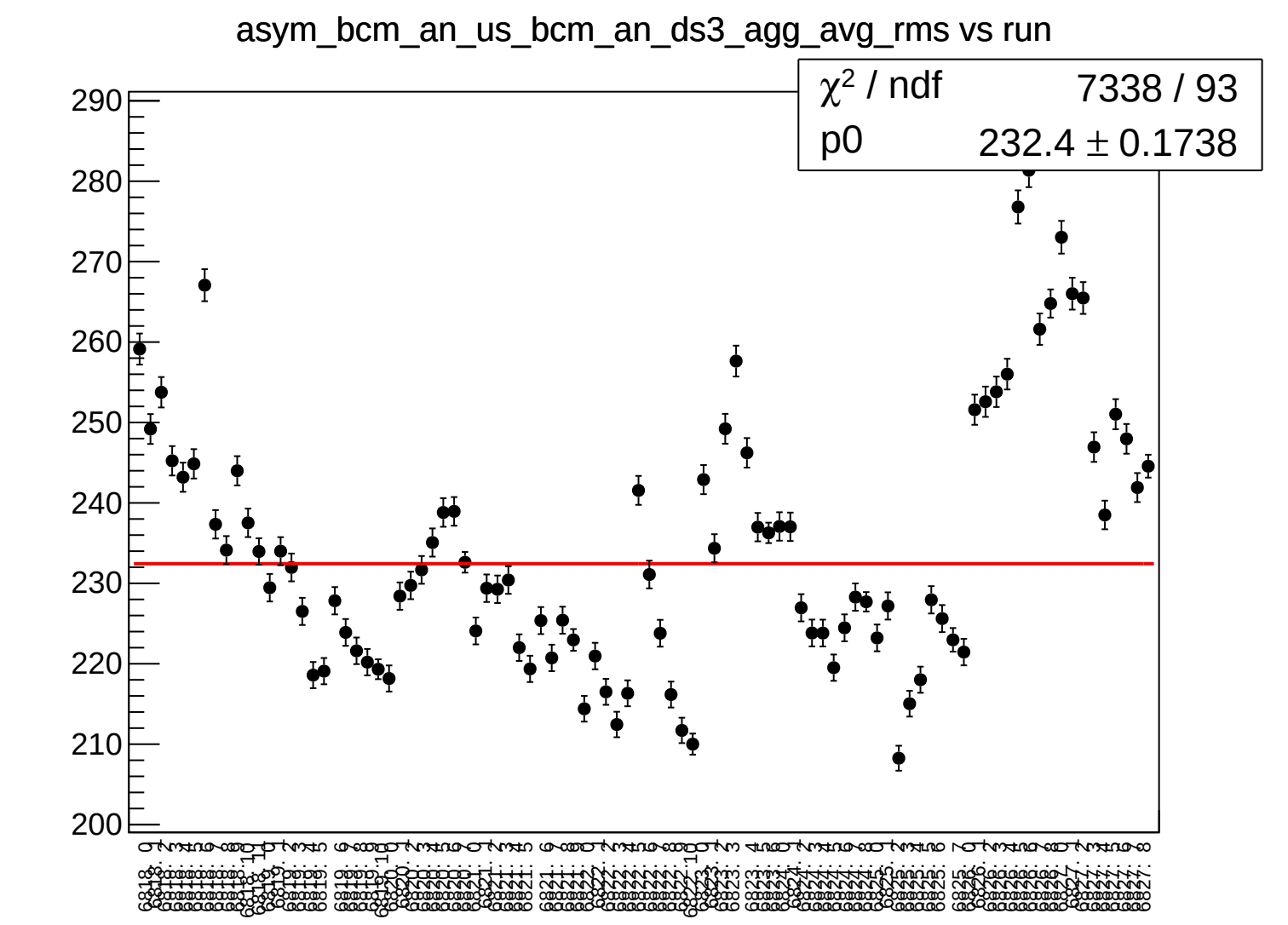

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 262.5 / 93
p0 20.96 ± 0.01564
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

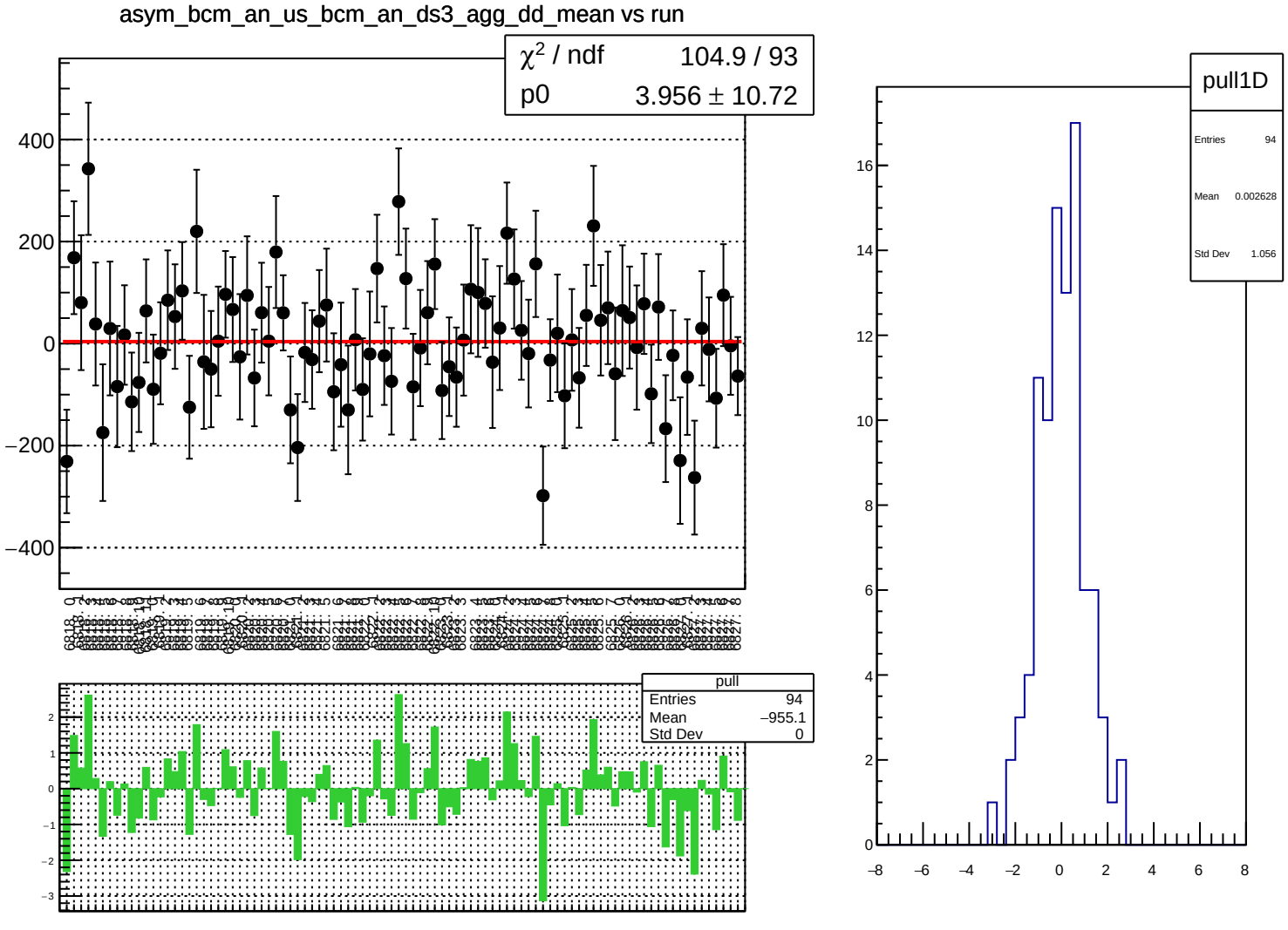

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 98.24 / 93
p0 1.456 ± 11.29
400
200
0
−200
−400
pull
Entries 94
Mean −979.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003462
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

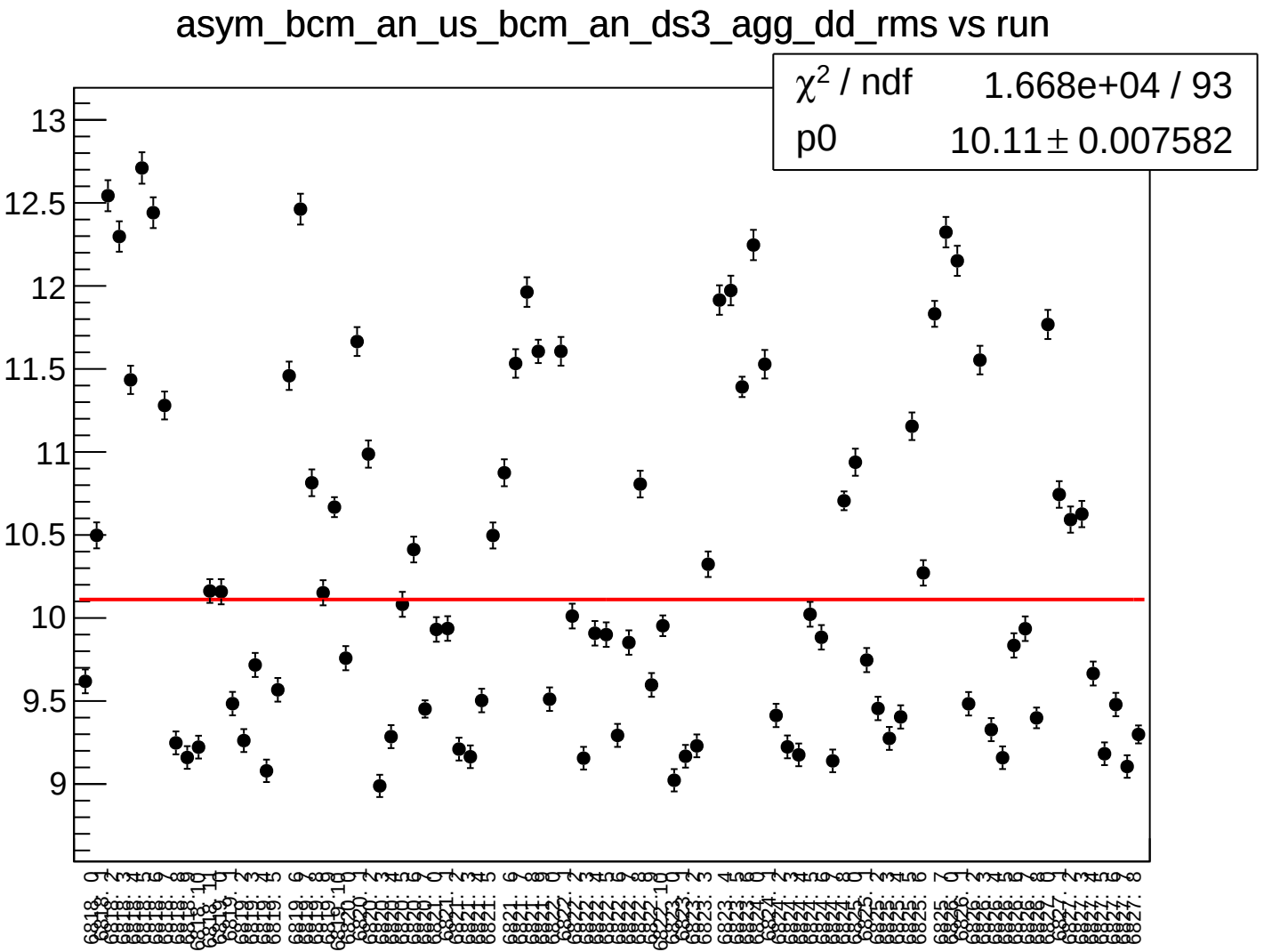

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.432e+04 / 93
p0 10.66 ± 0.007986
13.5
13
12.5
12
11.5
11
10.5
10
9.5

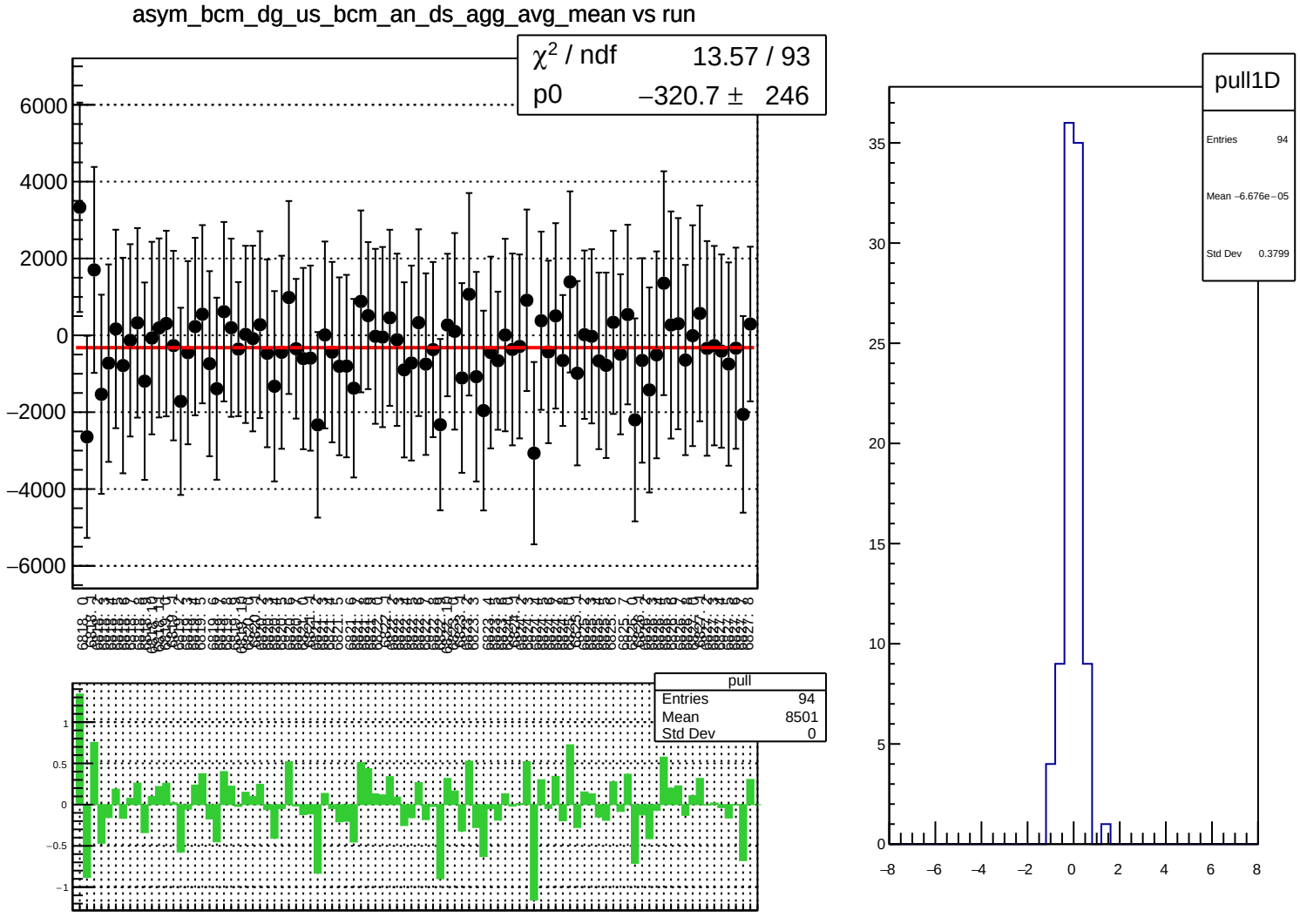

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.15 / 93
p0 −339.4 ± 245.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 686.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

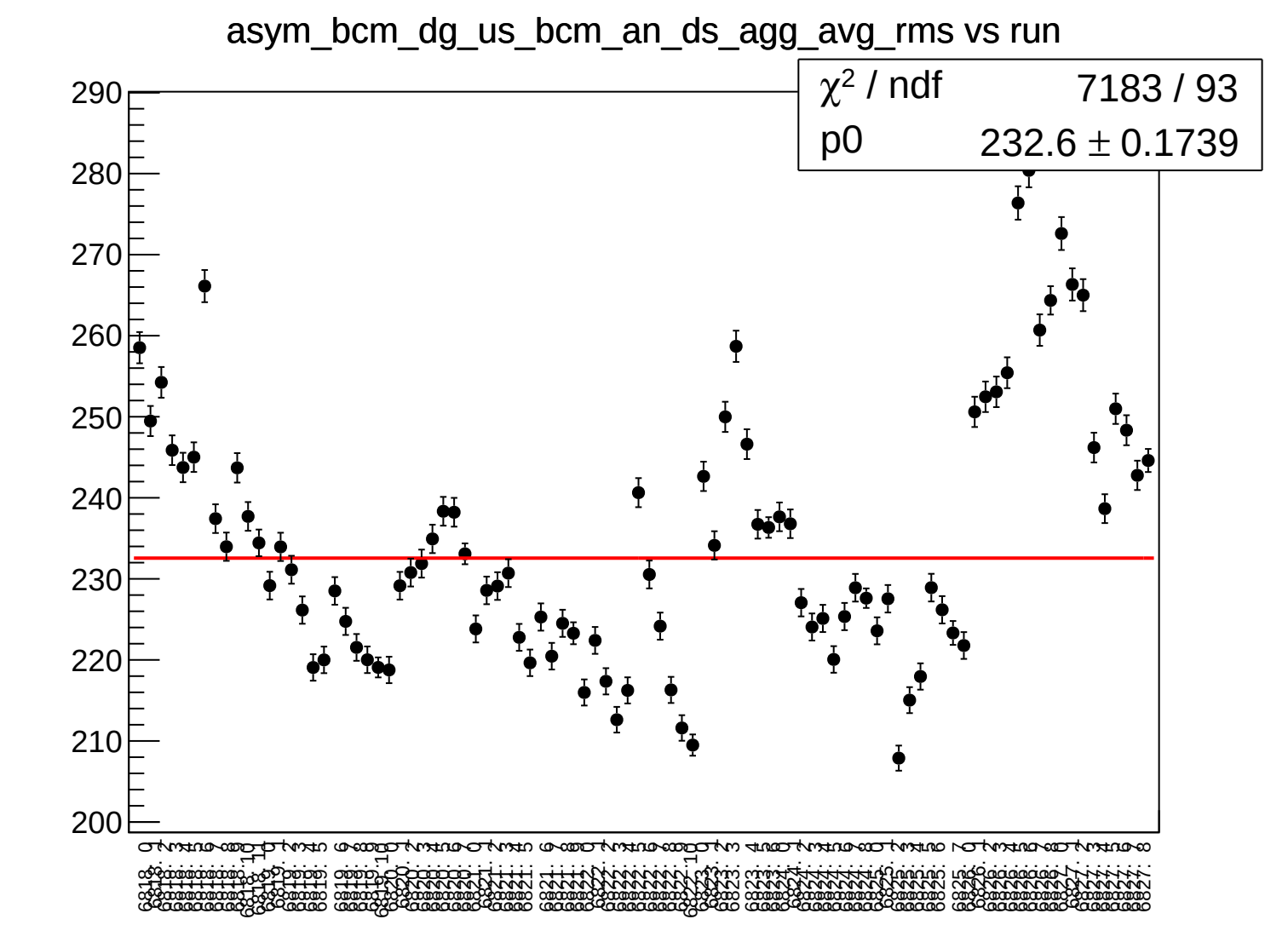

pull1D
Entries 94
Mean −0.0008907
Std Dev 0.388
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

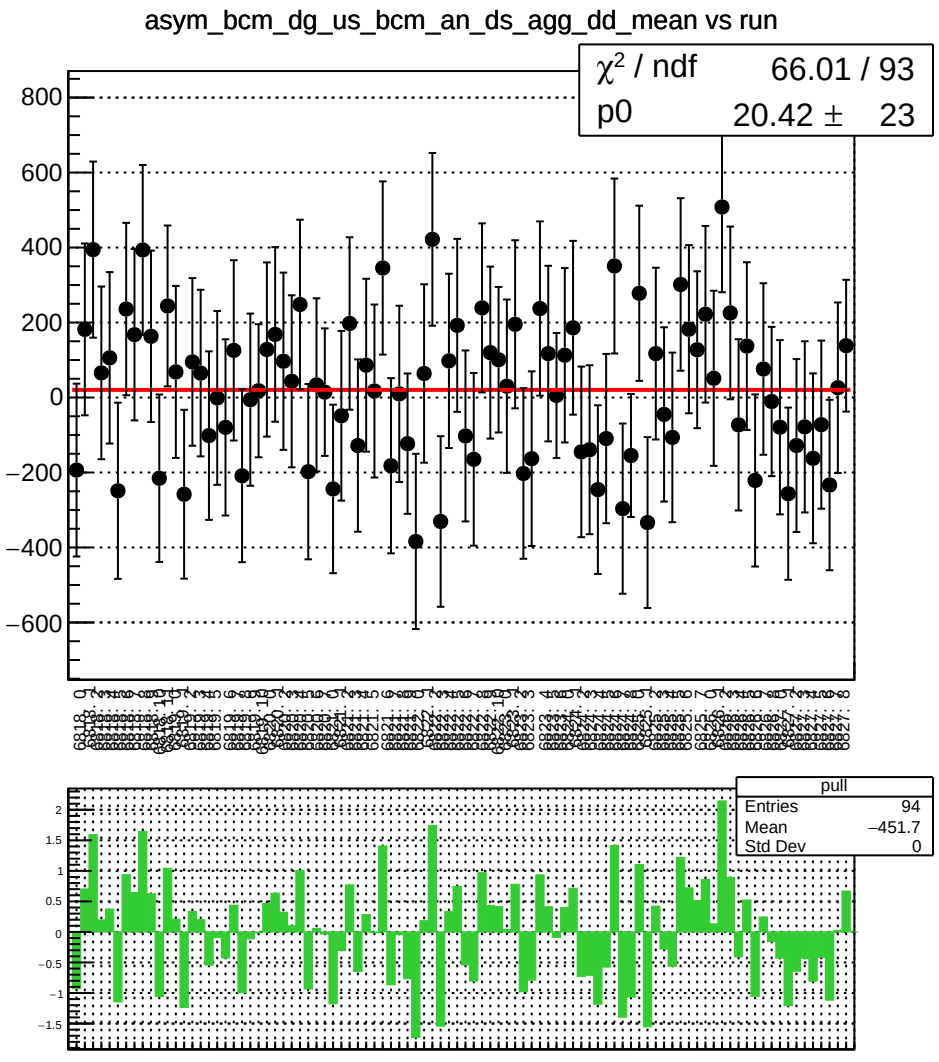

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 7338 / 93
p0 232.4 ± 0.1738
290
280
270
260
250
240
230
220
210
200

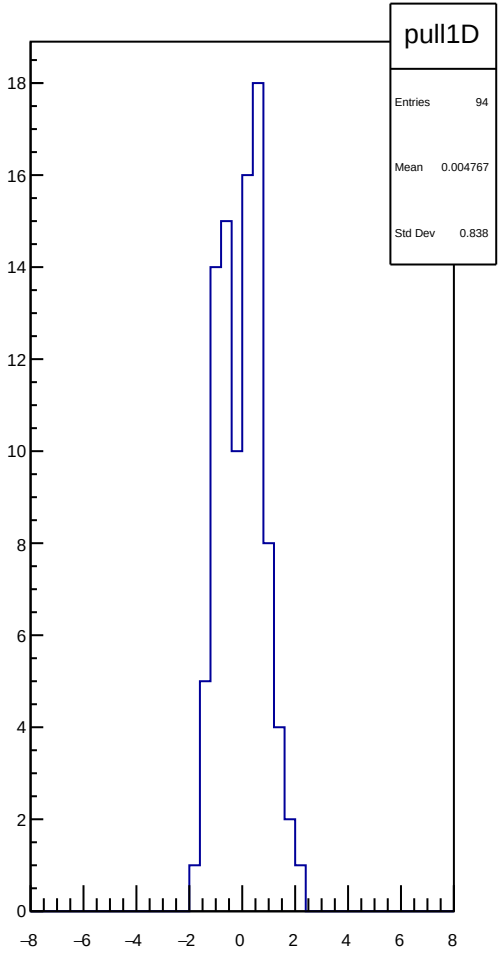

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 104.9 / 93
p0 3.956 ± 10.72
400
200
0
−200
−400
pull
Entries 94
Mean −955.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002628
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

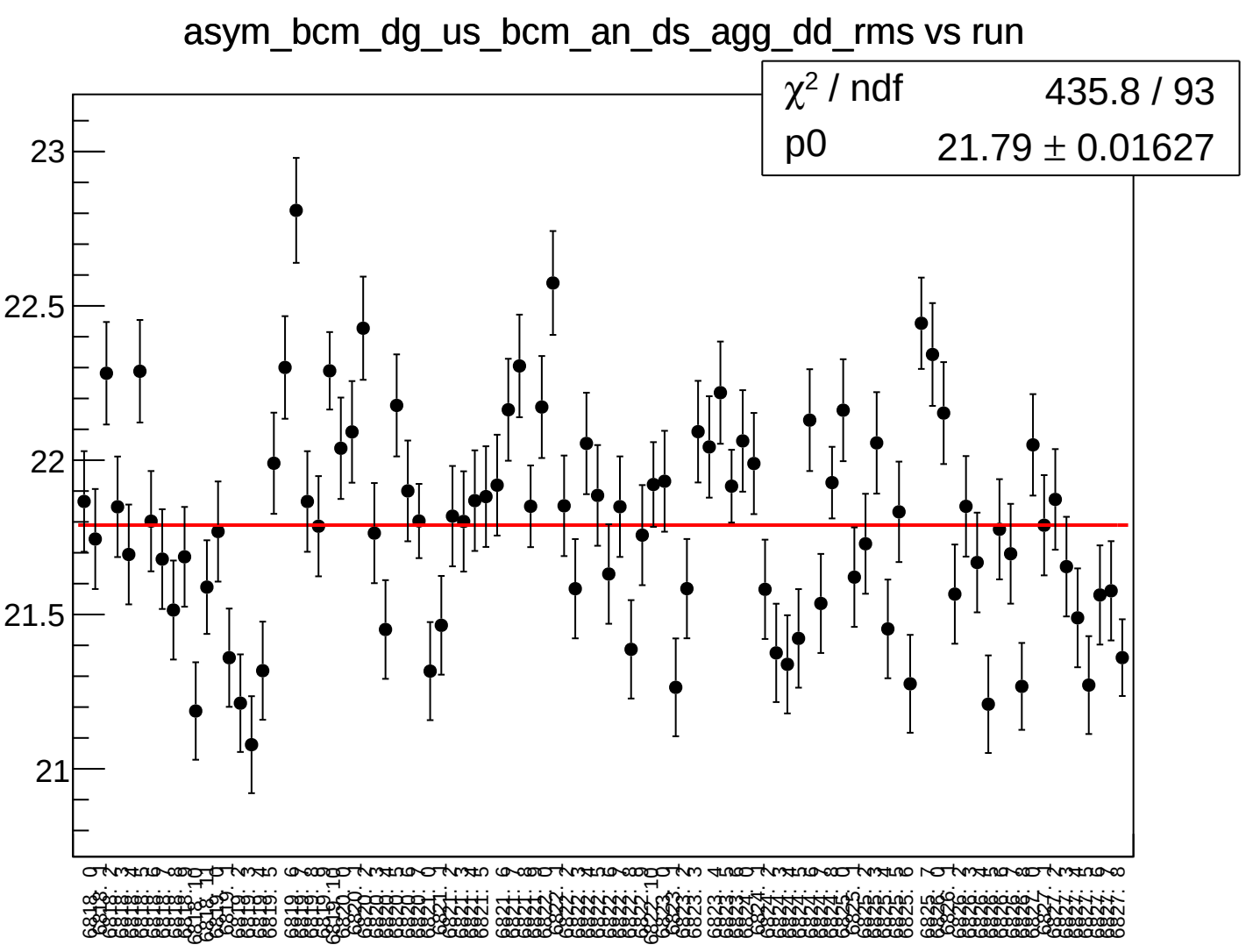

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.668e+04 / 93
p0 10.11 ± 0.007582
13
12.5
12
11.5
11
10.5
10
9.5
9

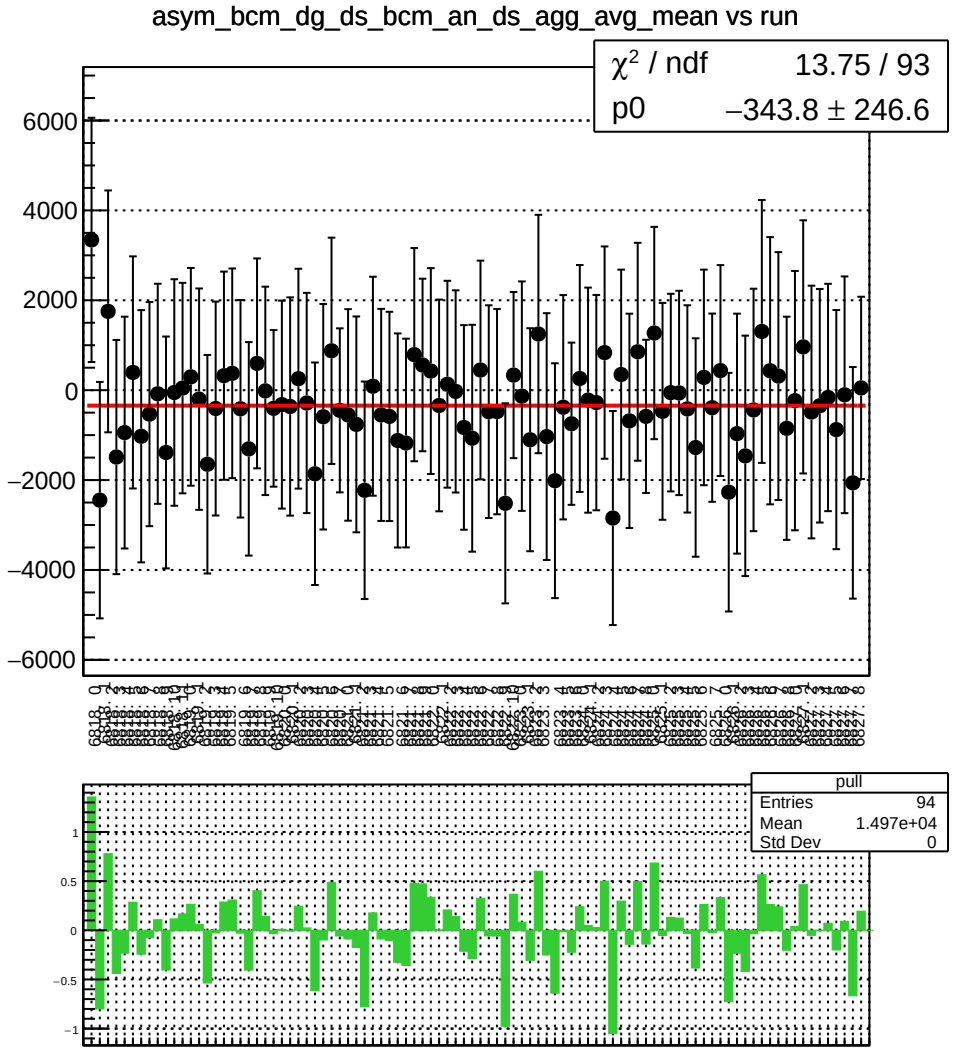

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.57 / 93
p0 −320.7 ± 246
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 8501
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −6.676e−05
Std Dev 0.3799
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

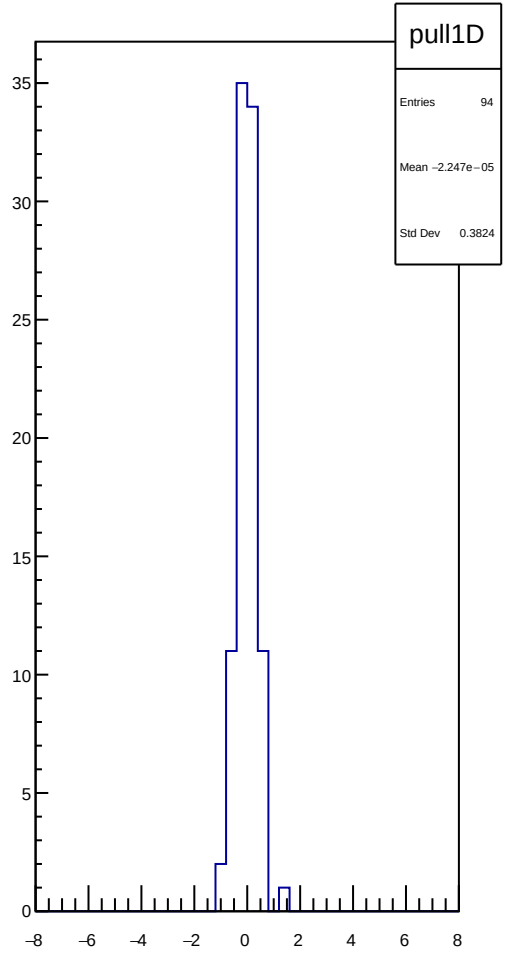

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7183 / 93
p0 232.6 ± 0.1739
290
280
270
260
250
240
230
220
210
200

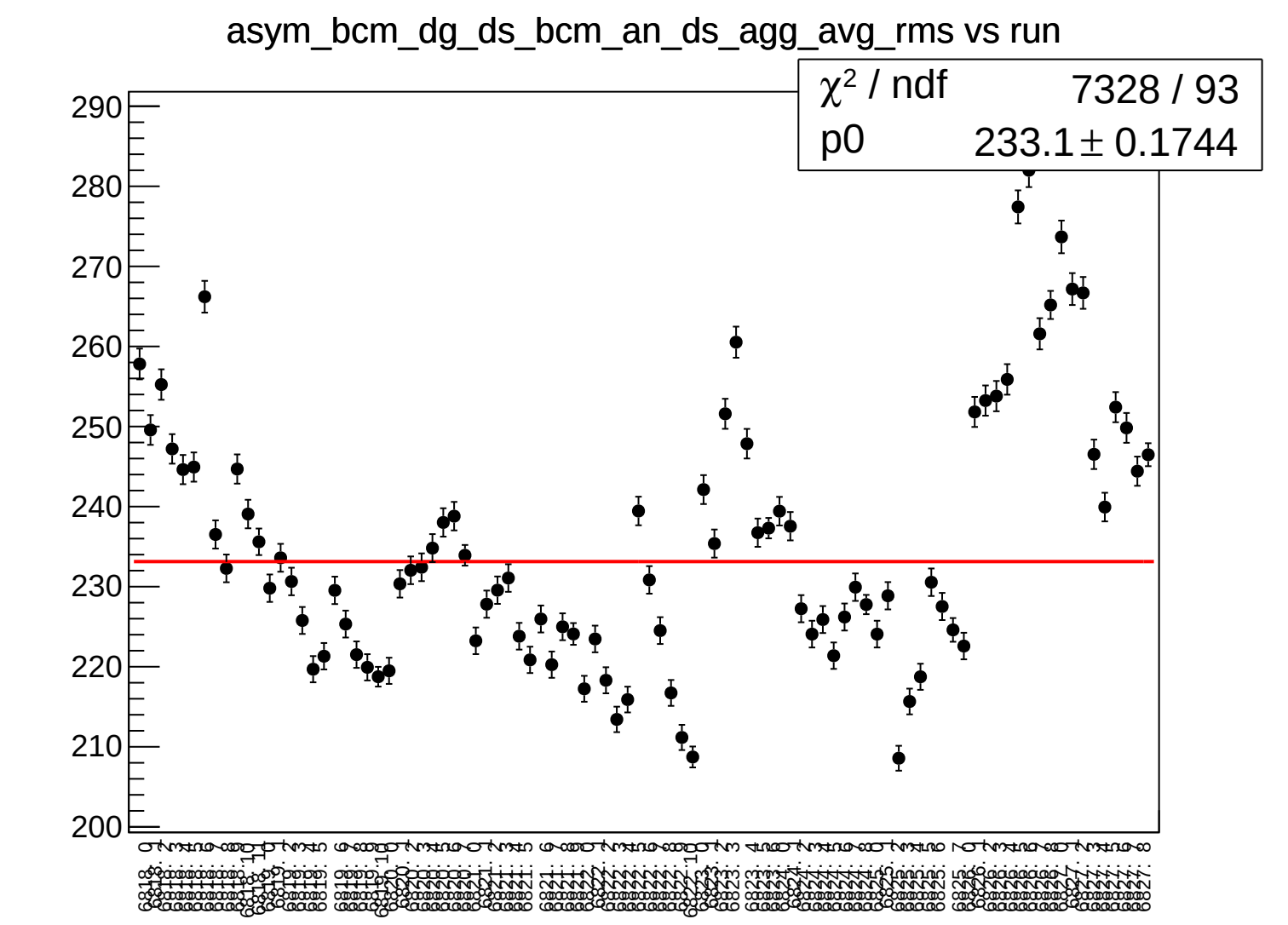

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 66.01 / 93
p0 20.42 ± 23
pull
Entries 94
Mean −451.7
Std Dev 0

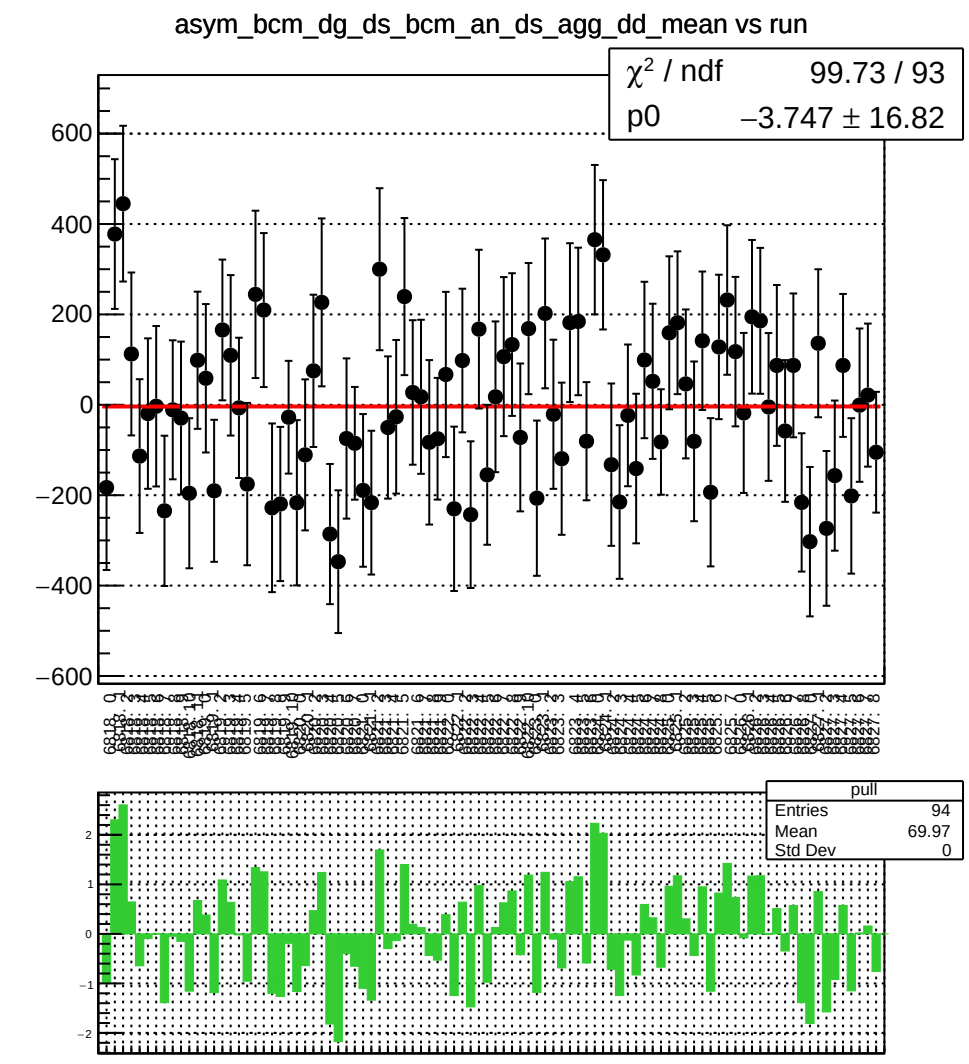

pull1D
Entries 94
Mean 0.004767
Std Dev 0.838

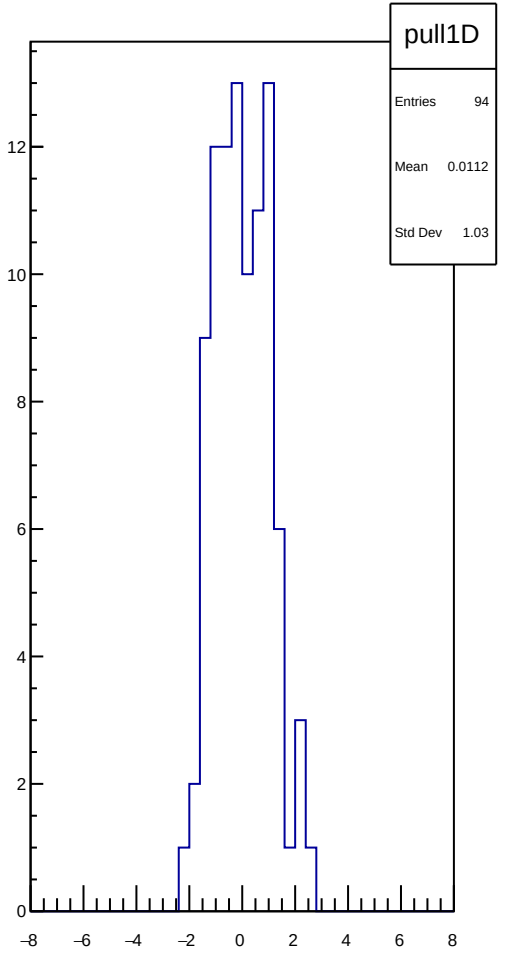

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 435.8 / 93
p0 21.79 ± 0.01627
23
22.5
22
21.5
21

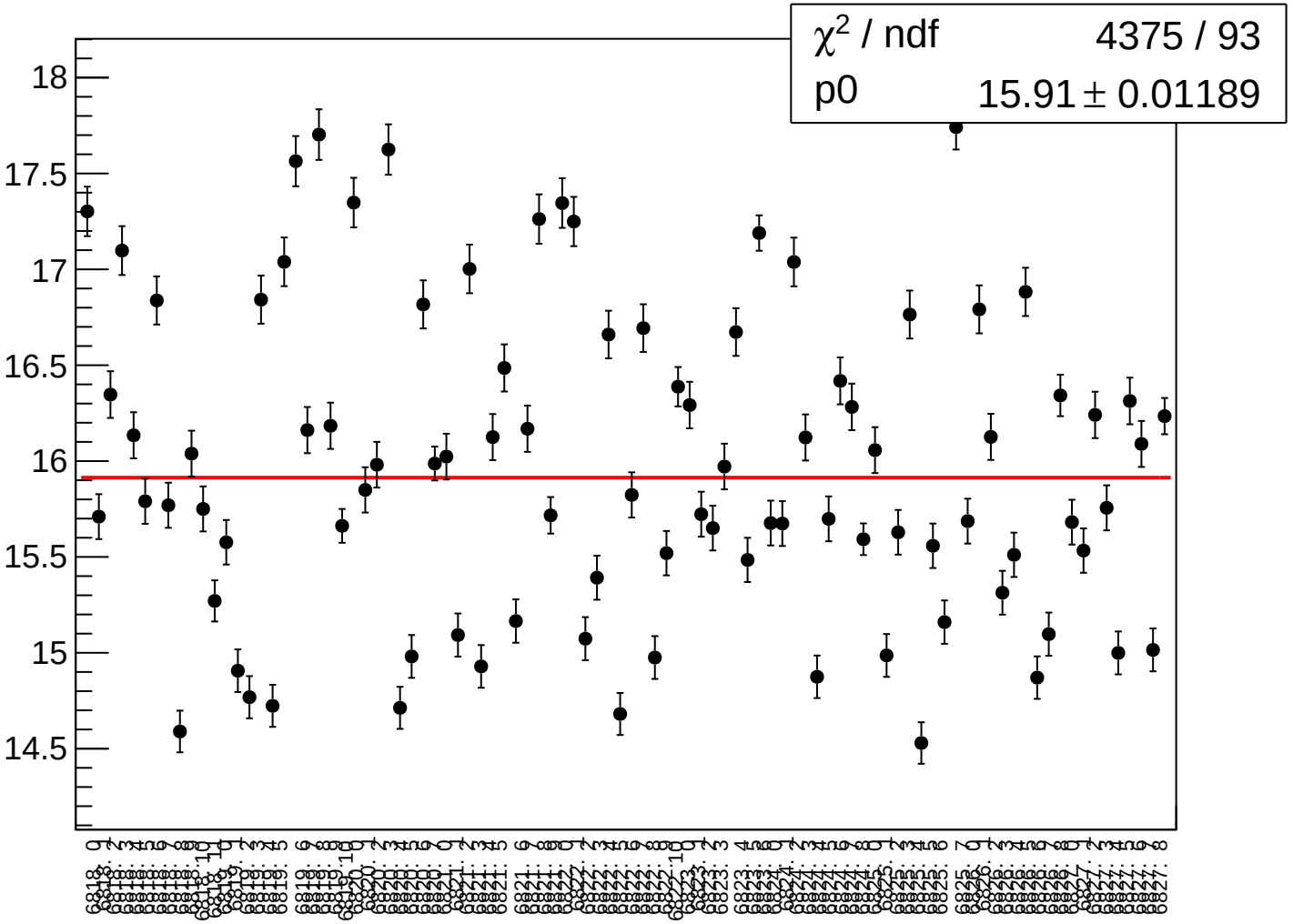

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.75 / 93
p0 −343.8 ± 246.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1.497e+04
Std Dev 0
1
0.5
0
−0.5
−1

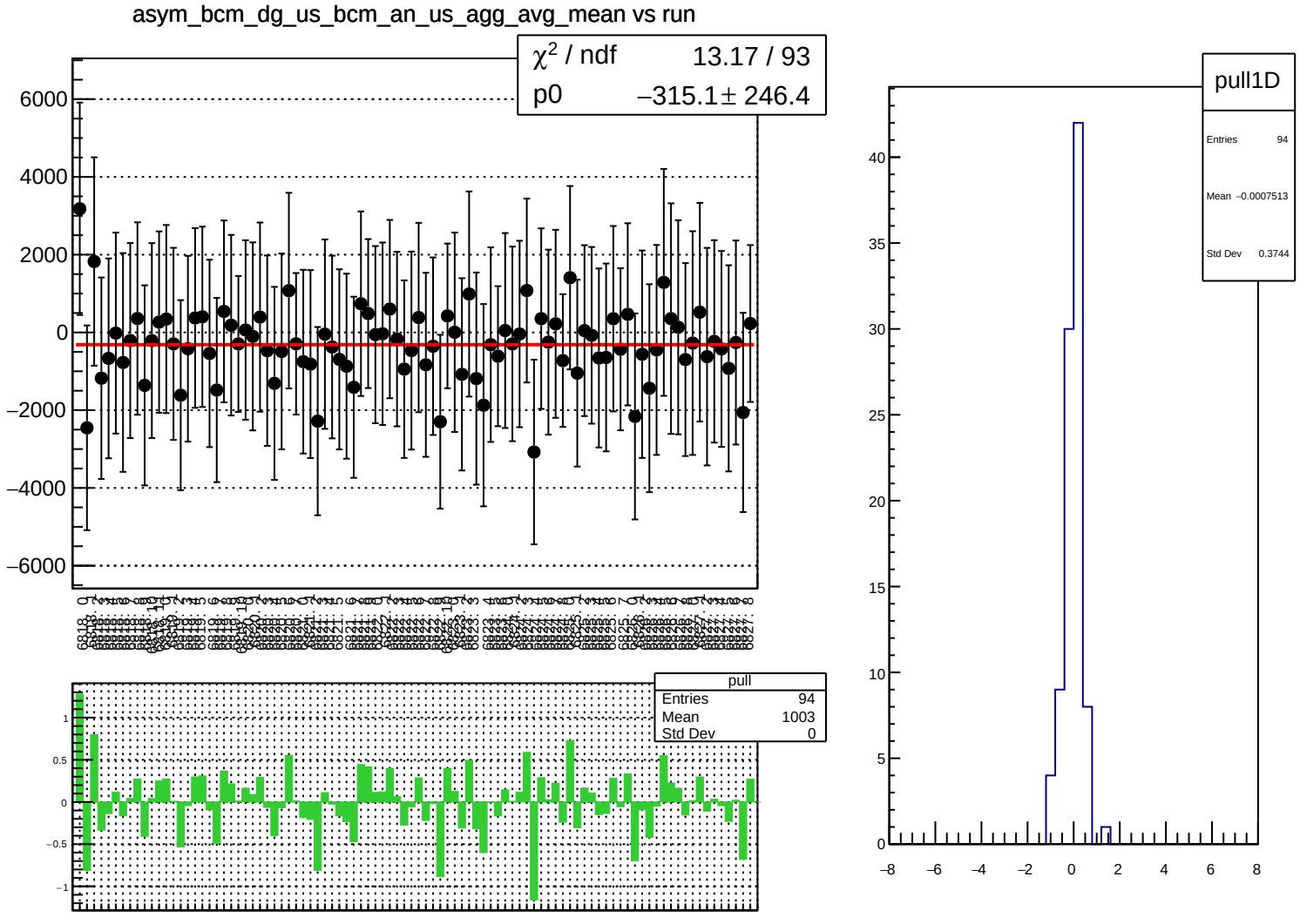

pull1D
Entries 94
Mean −2.247e−05
Std Dev 0.3824
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

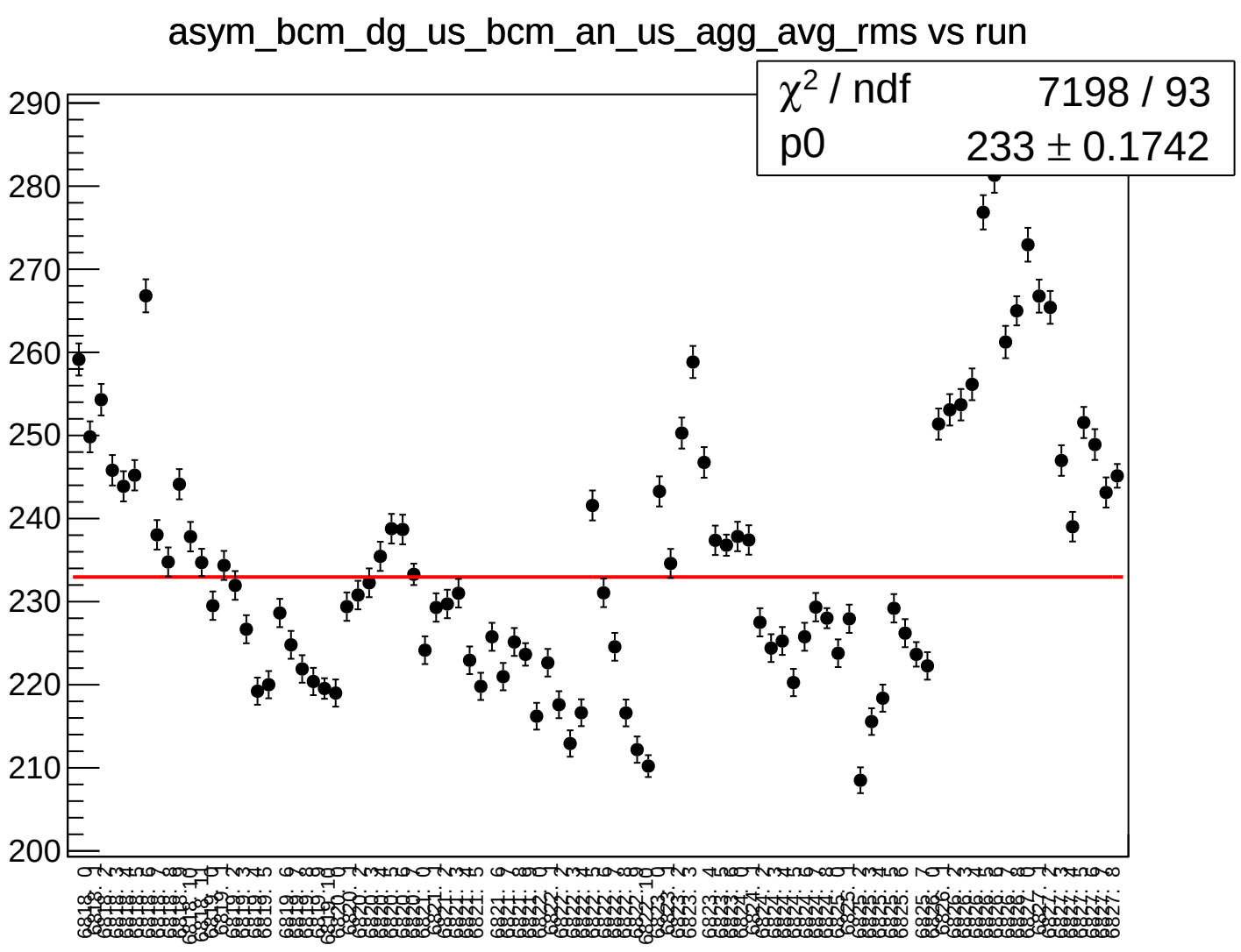

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7328 / 93
p0 233.1 ± 0.1744
290
280
270
260
250
240
230
220
210
200

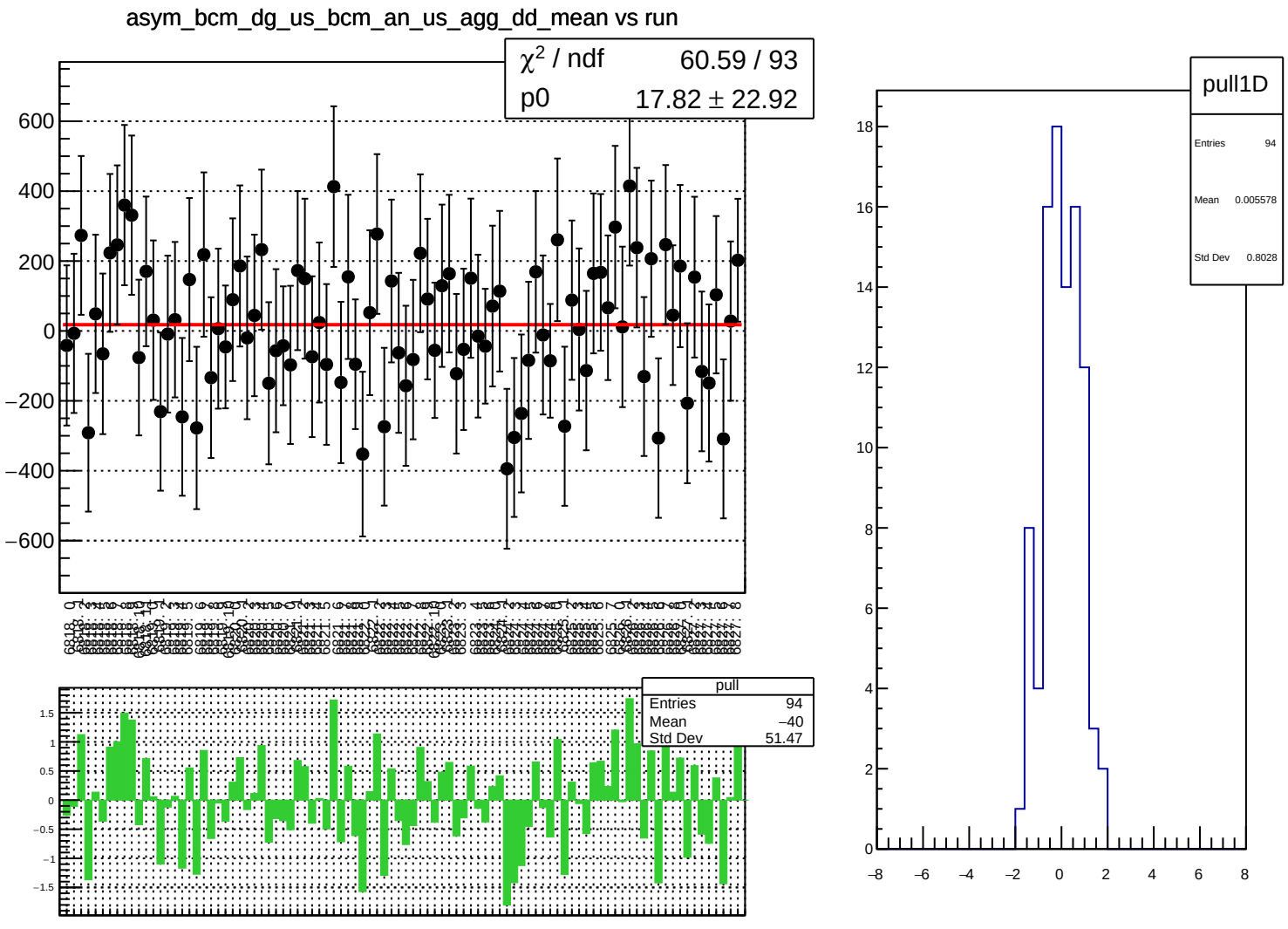

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 99.73 / 93
p0 −3.747 ± 16.82
pull
Entries 94
Mean 69.97
Std Dev 0

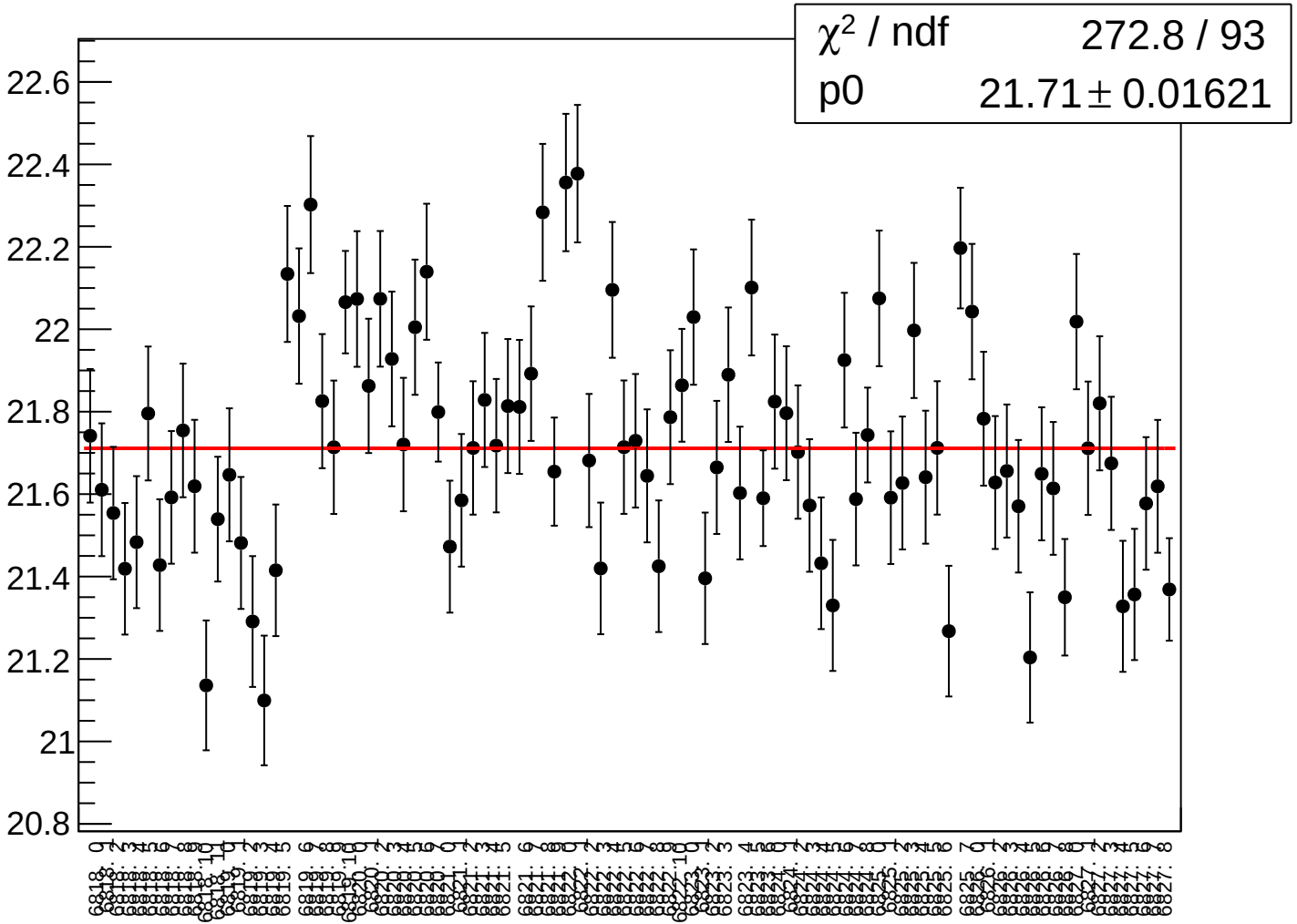

pull1D
Entries 94
Mean 0.0112
Std Dev 1.03

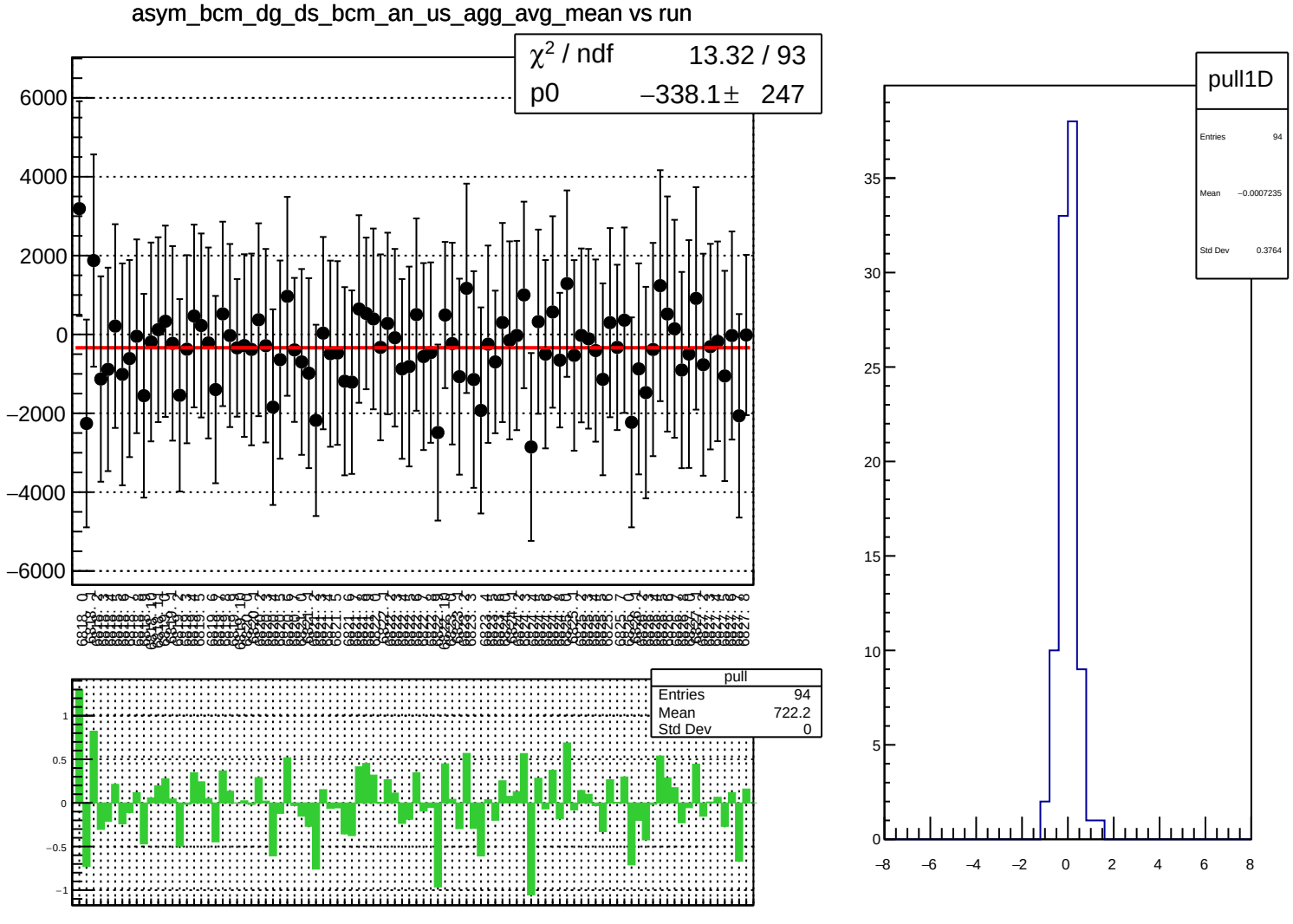

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4375 / 93
p0 15.91 ± 0.01189
18
17.5
17
16.5
16
15.5
15
14.5

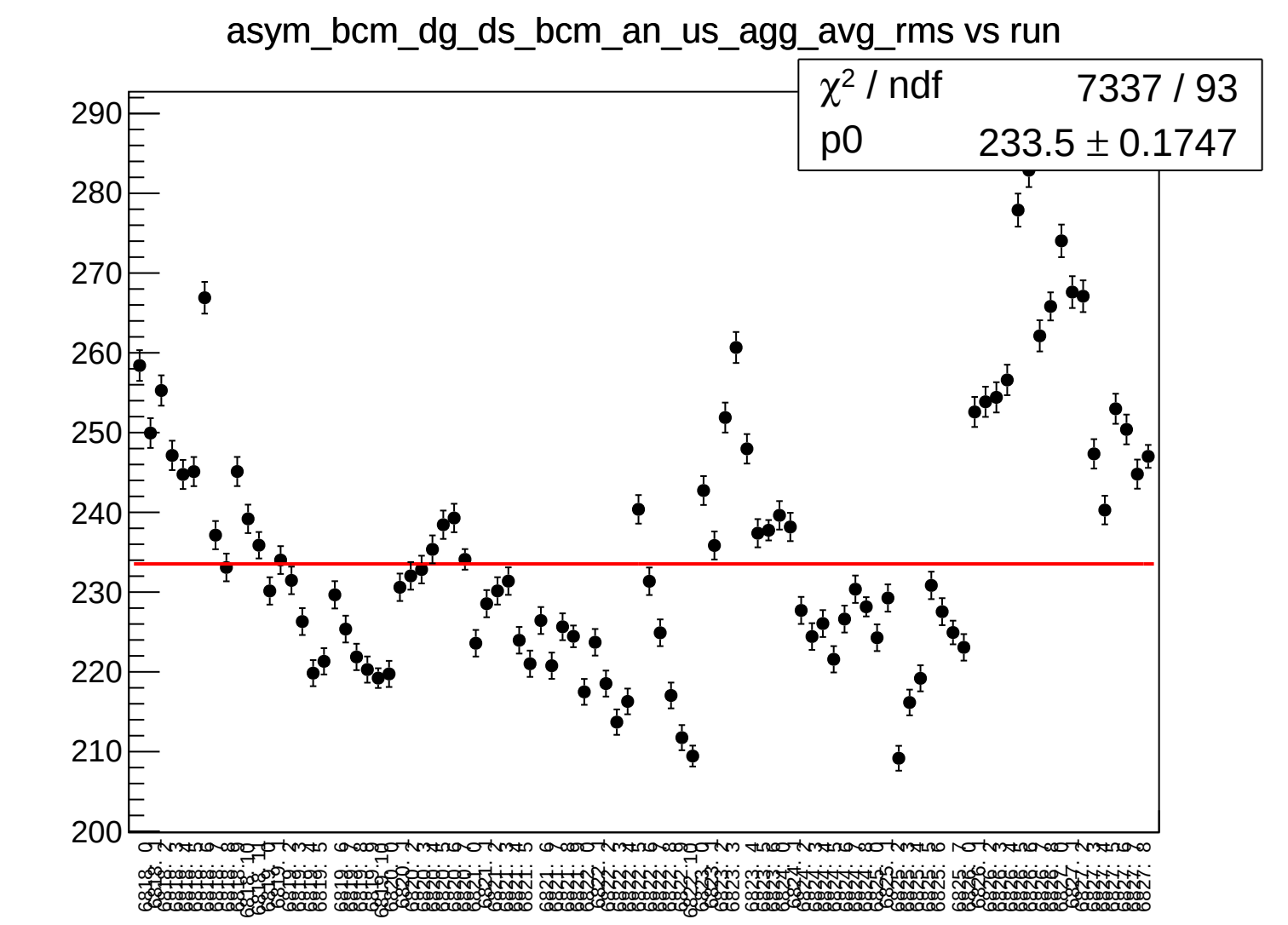

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.17 / 93
p0 −315.1± 246.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1003
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0007513
Std Dev 0.3744
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

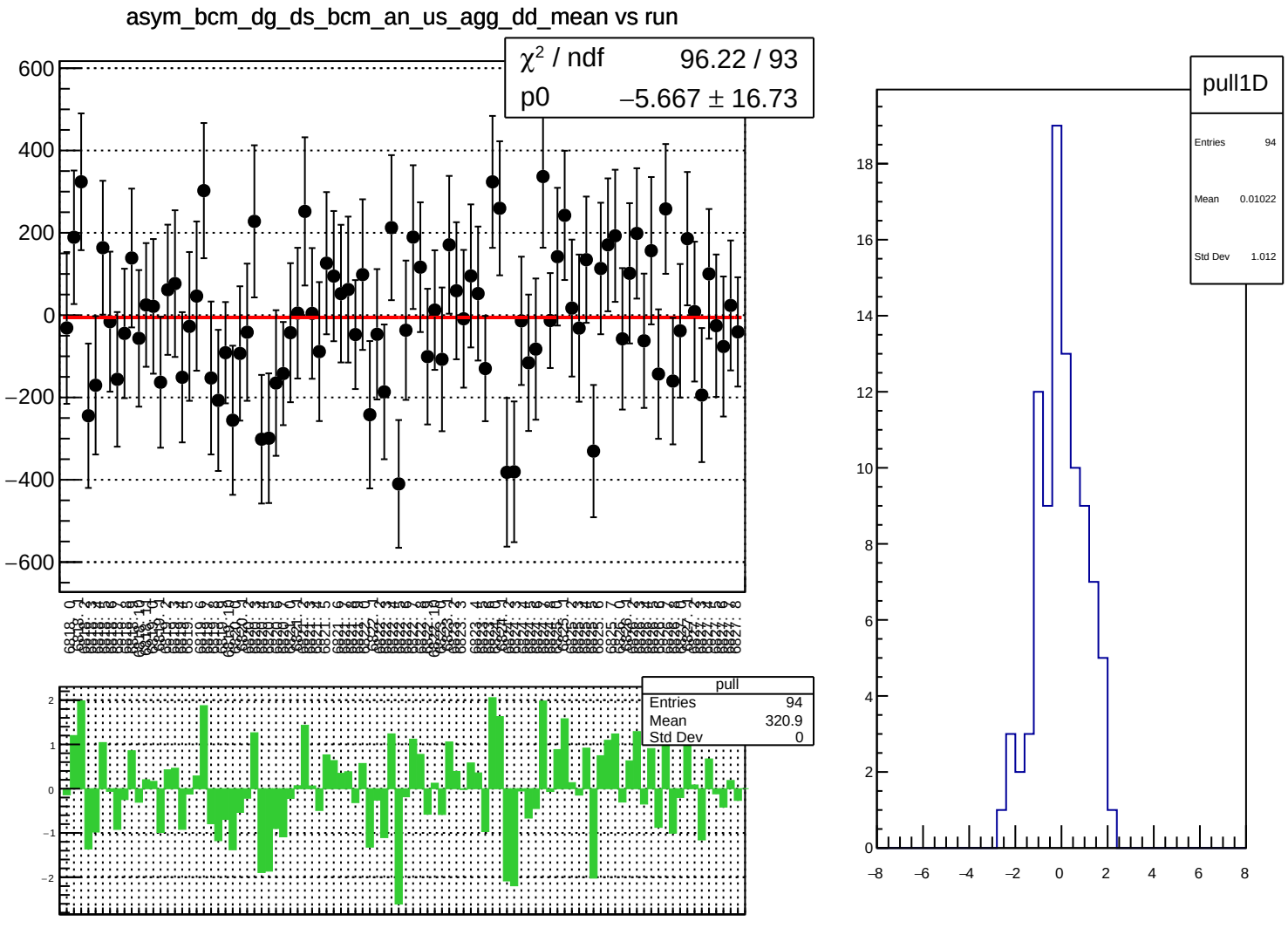

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7198 / 93
p0 233 ± 0.1742
290
280
270
260
250
240
230
220
210
200

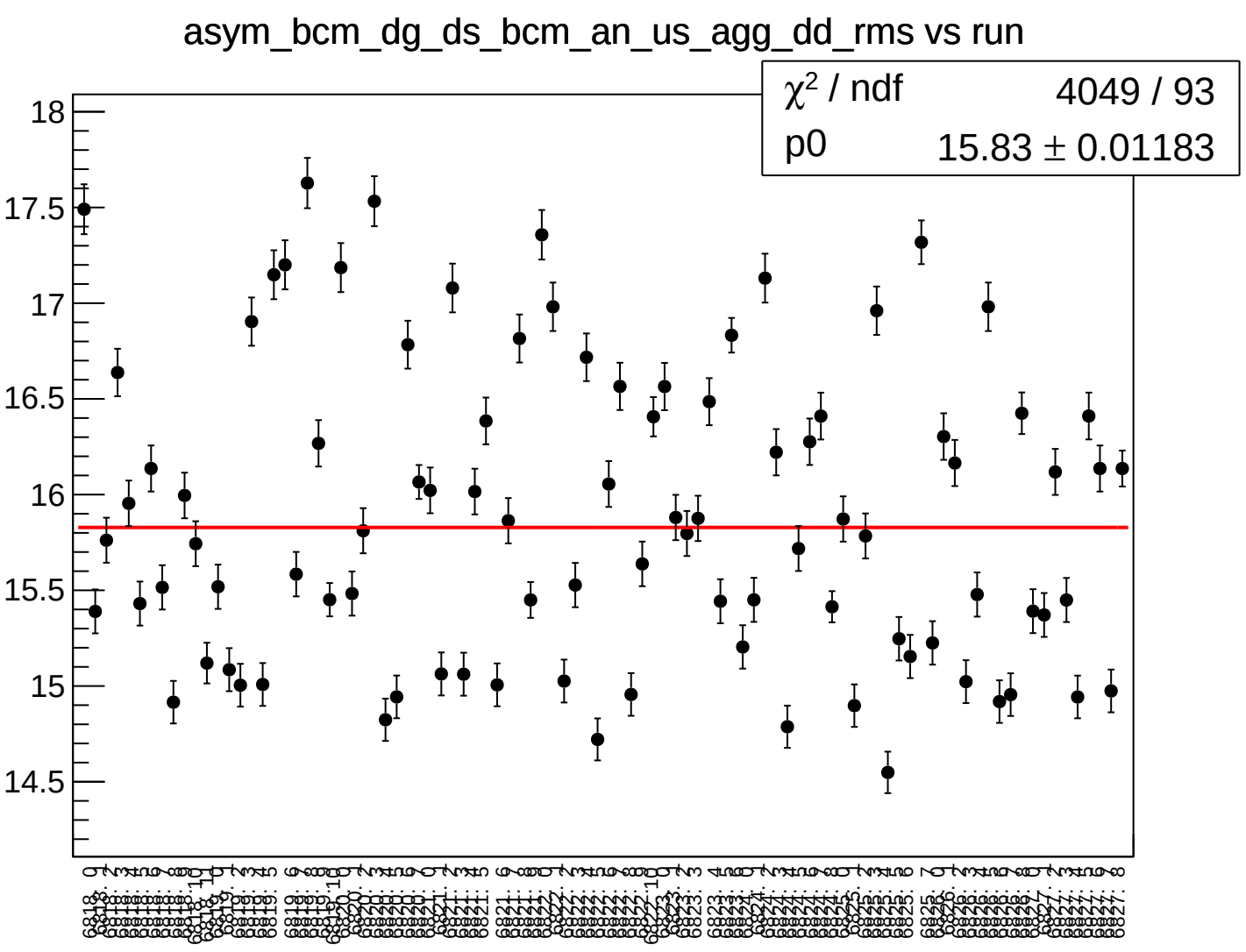

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 60.59 / 93
p0 17.82 ± 22.92
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean −40
Std Dev 51.47
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.005578
Std Dev 0.8028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

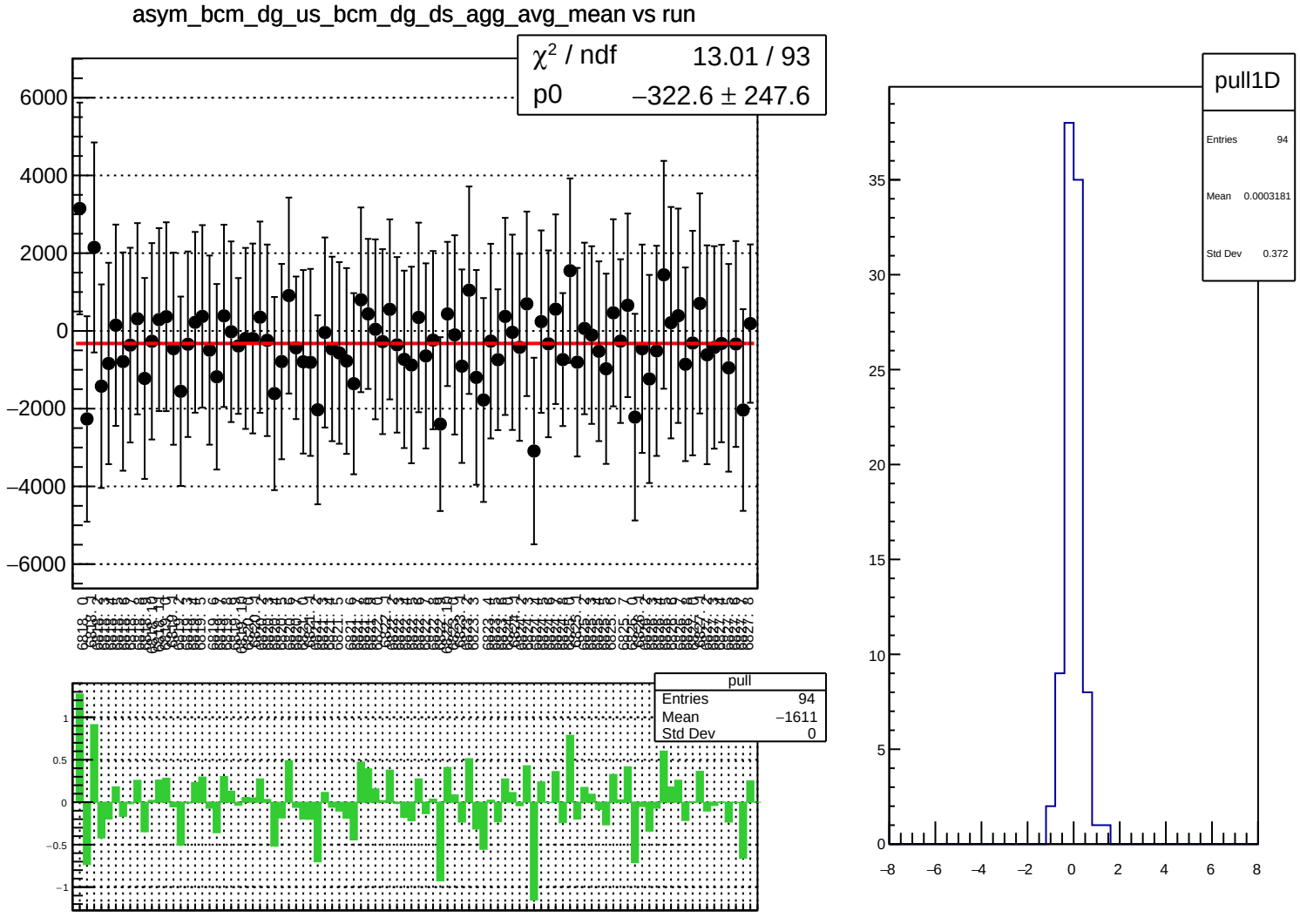

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 272.8 / 93
p0 21.71 ± 0.01621
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8

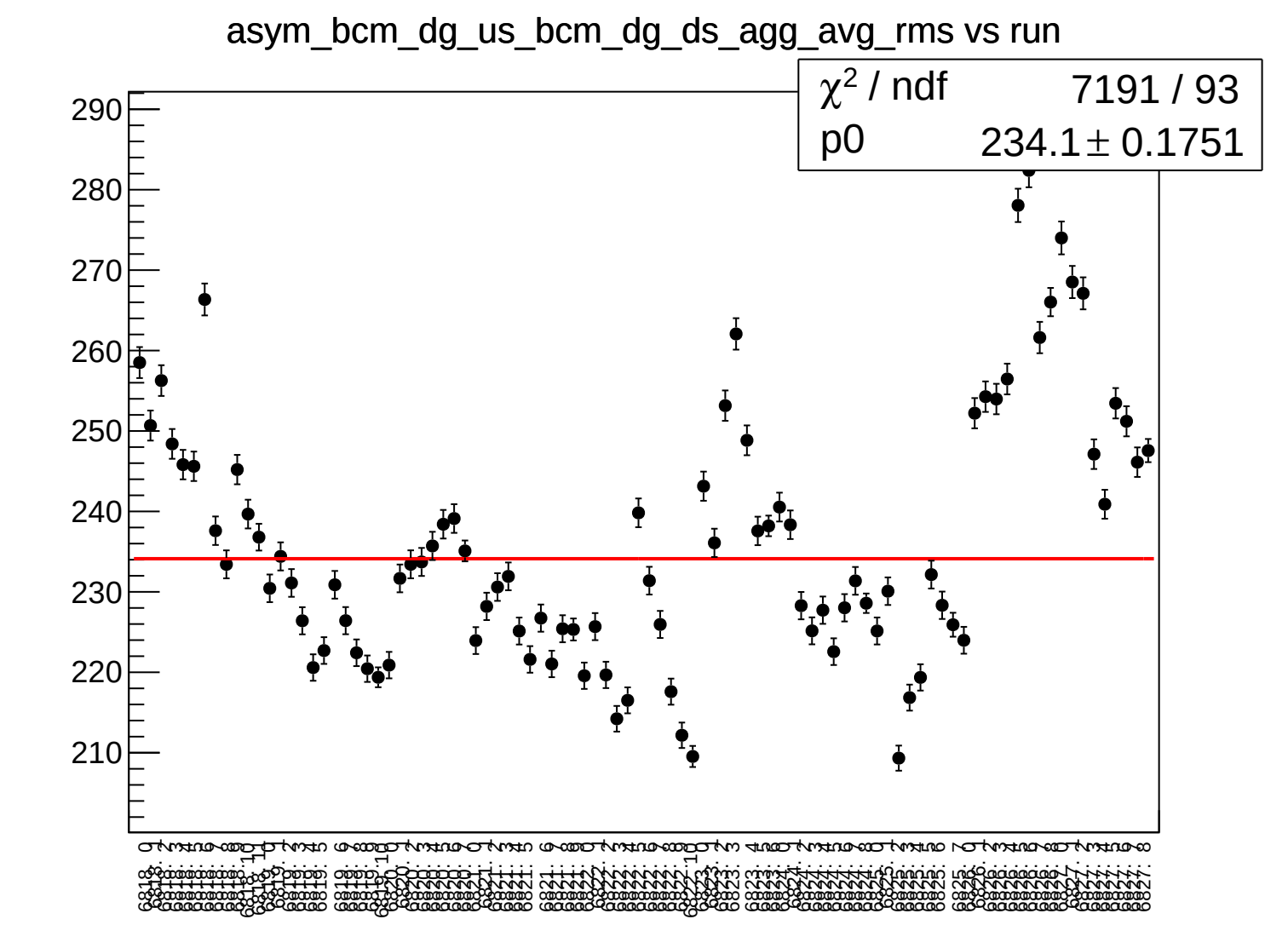

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.32 / 93
p0 −338.1± 247
pull
Entries 94
Mean 722.2
Std Dev 0
pull1D
Entries 94
Mean −0.0007235
Std Dev 0.3764

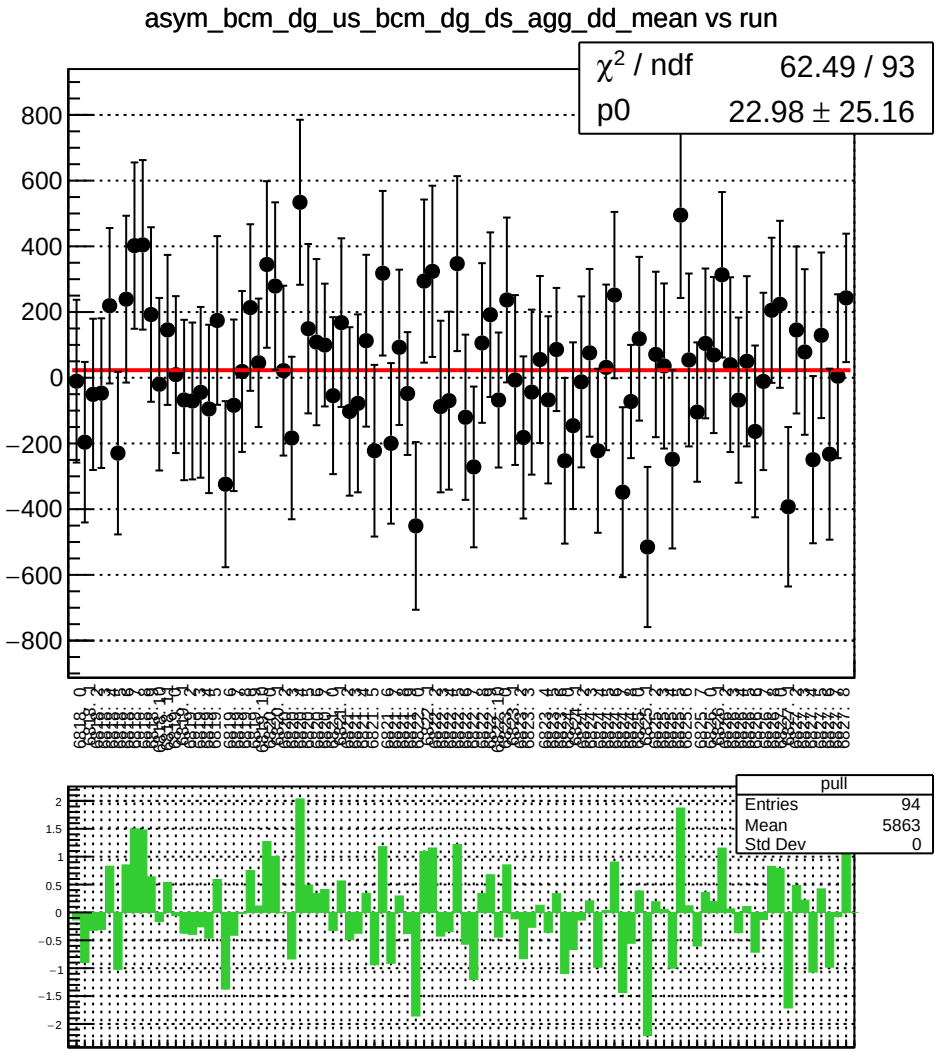

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7337 / 93
p0 233.5 ± 0.1747
290
280
270
260
250
240
230
220
210
200

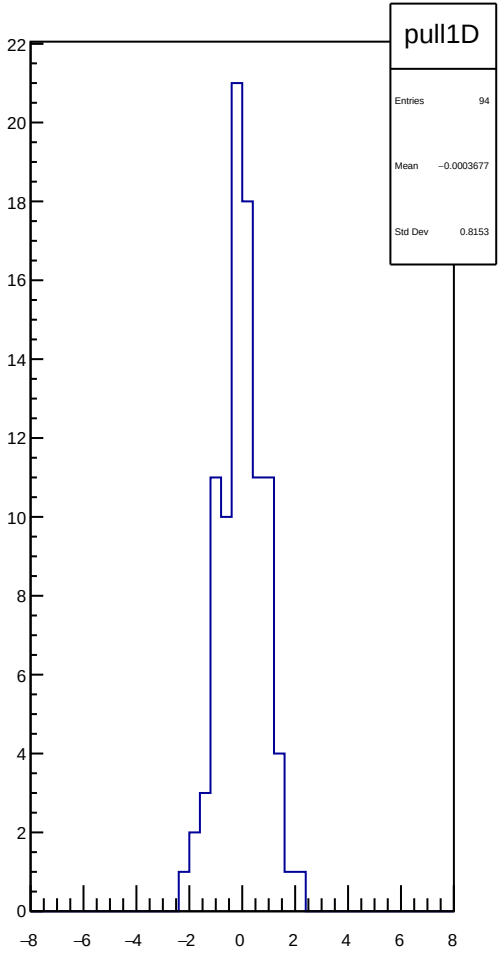

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 96.22 / 93
p0 −5.667 ± 16.73
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean 320.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.01022
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

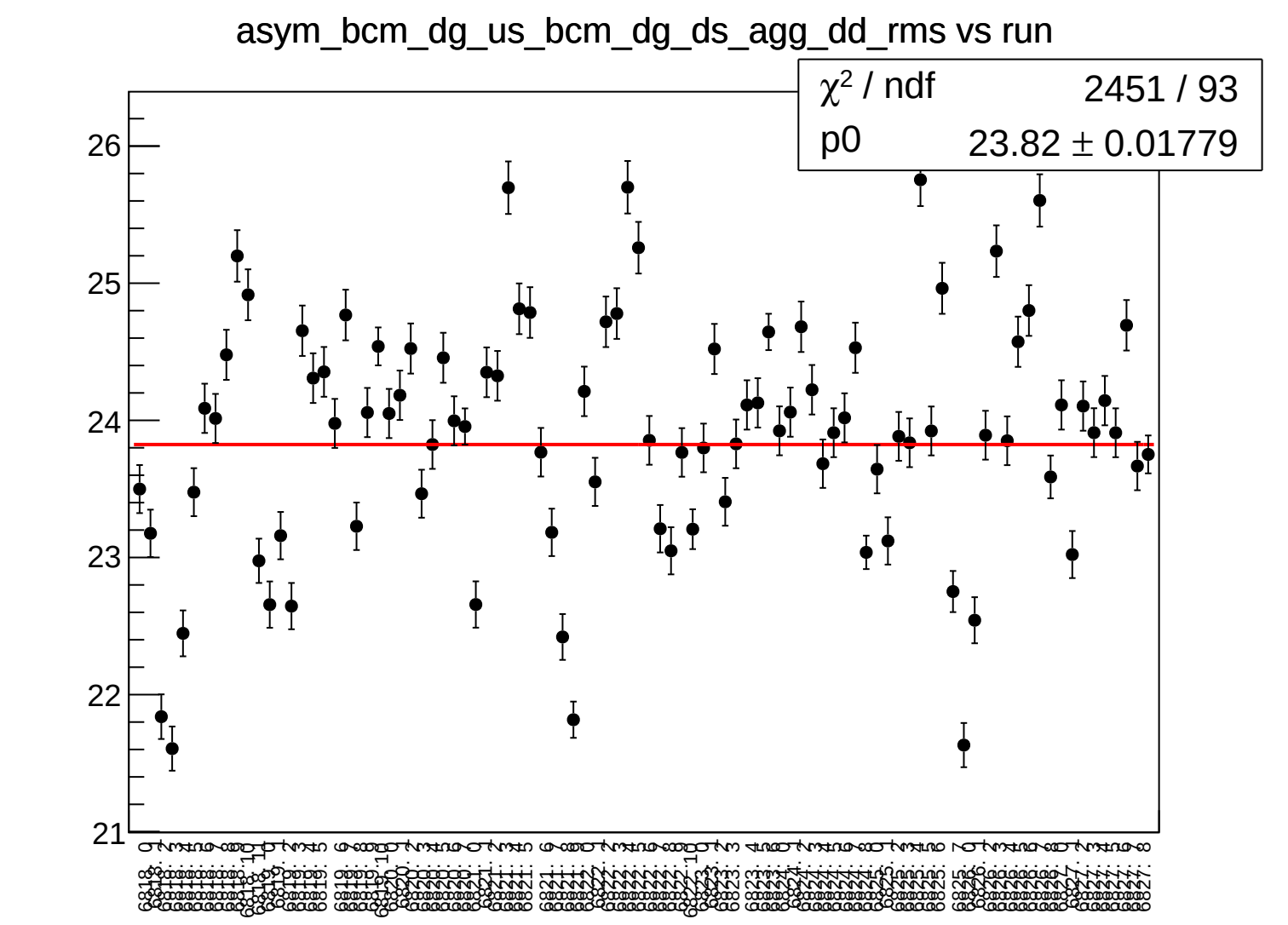

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4049 / 93
p0 15.83 ± 0.01183
18
17.5
17
16.5
16
15.5
15
14.5

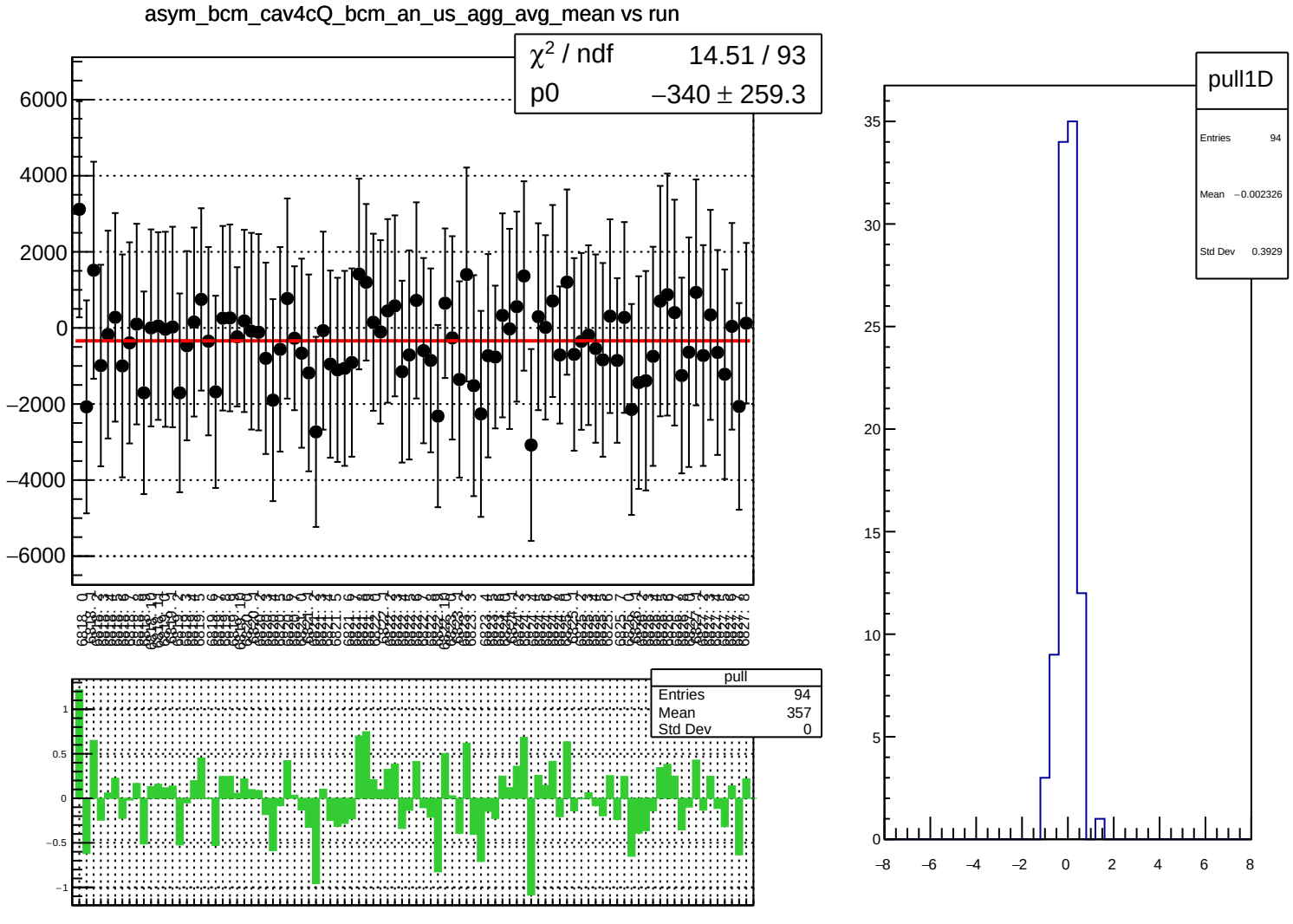

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.01 / 93
p0 −322.6 ± 247.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1611
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.0003181
Std Dev 0.372
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

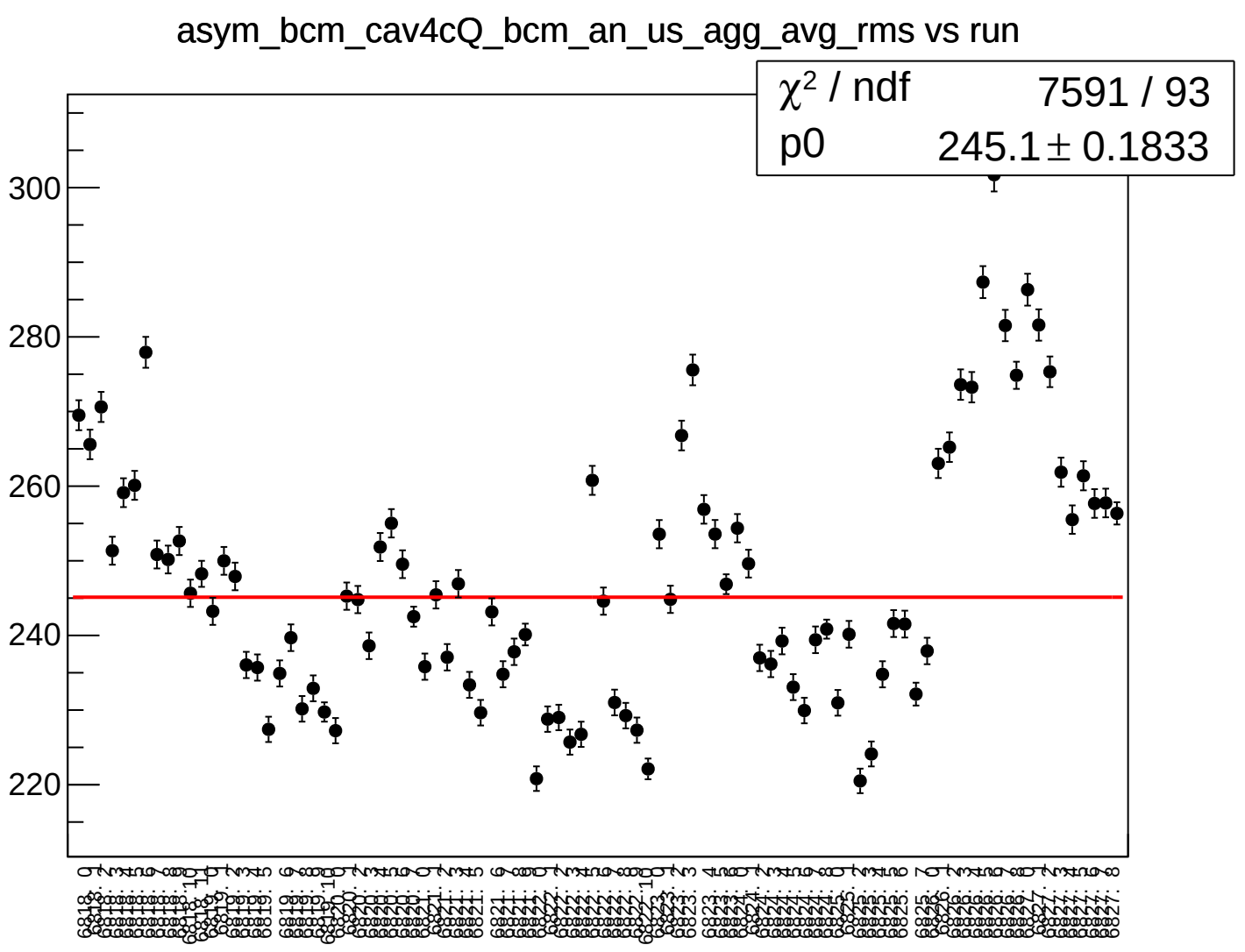

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 7191 / 93
p0 234.1 ± 0.1751
290
280
270
260
250
240
230
220
210

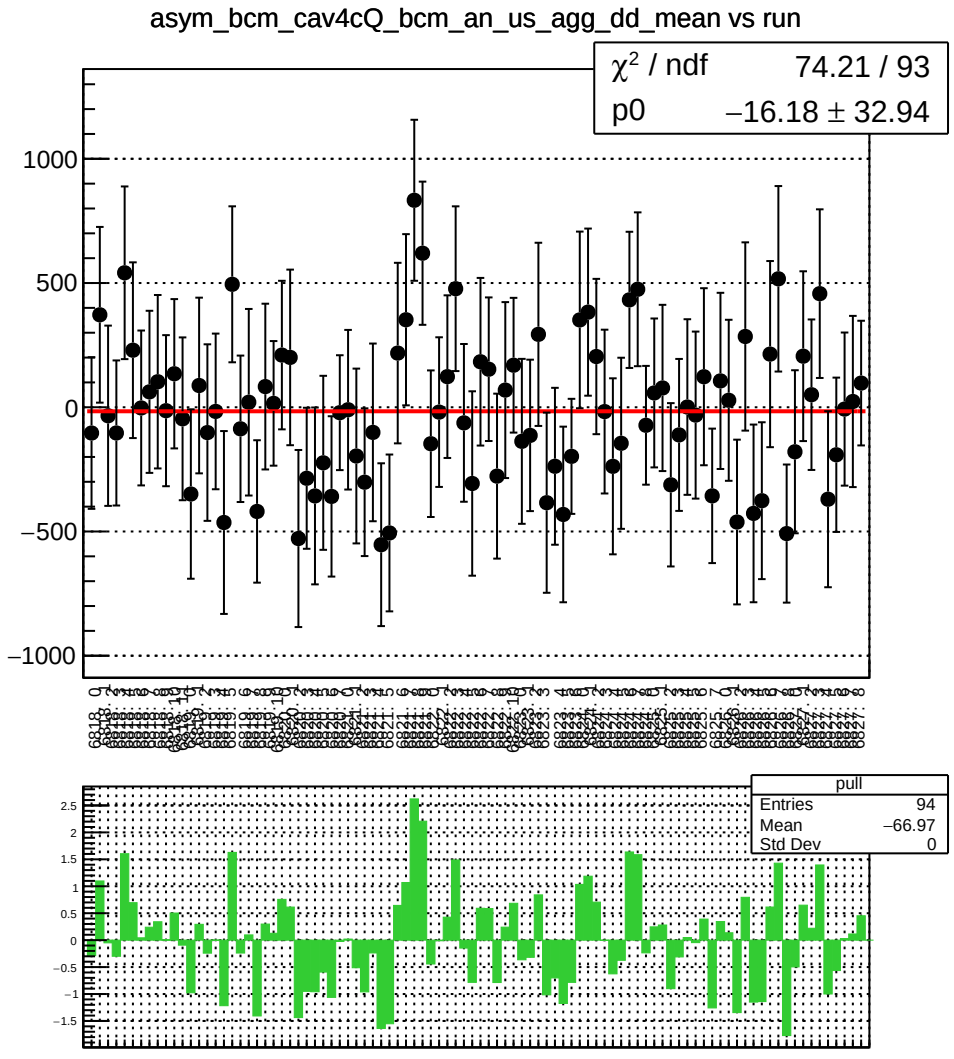

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.49 / 93
p0 22.98 ± 25.16
pull
Entries 94
Mean 5863
Std Dev 0

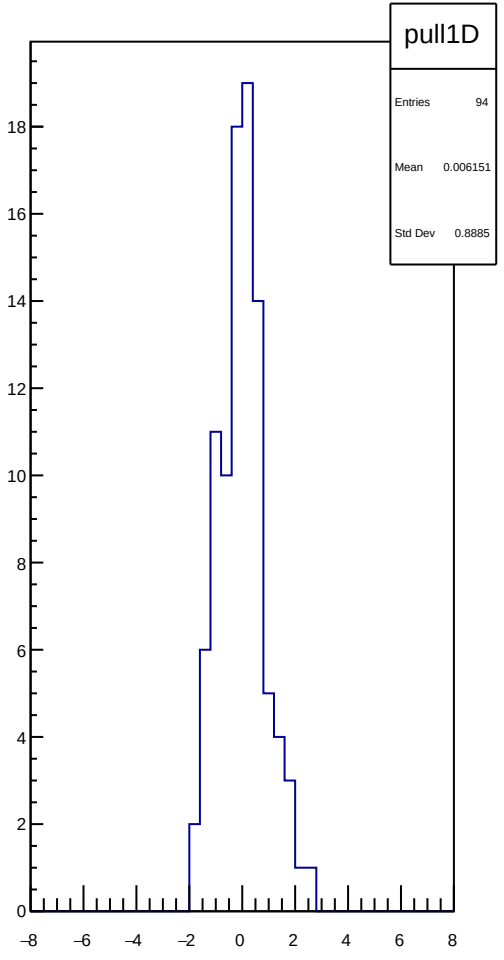

pull1D
Entries 94
Mean −0.0003677
Std Dev 0.8153

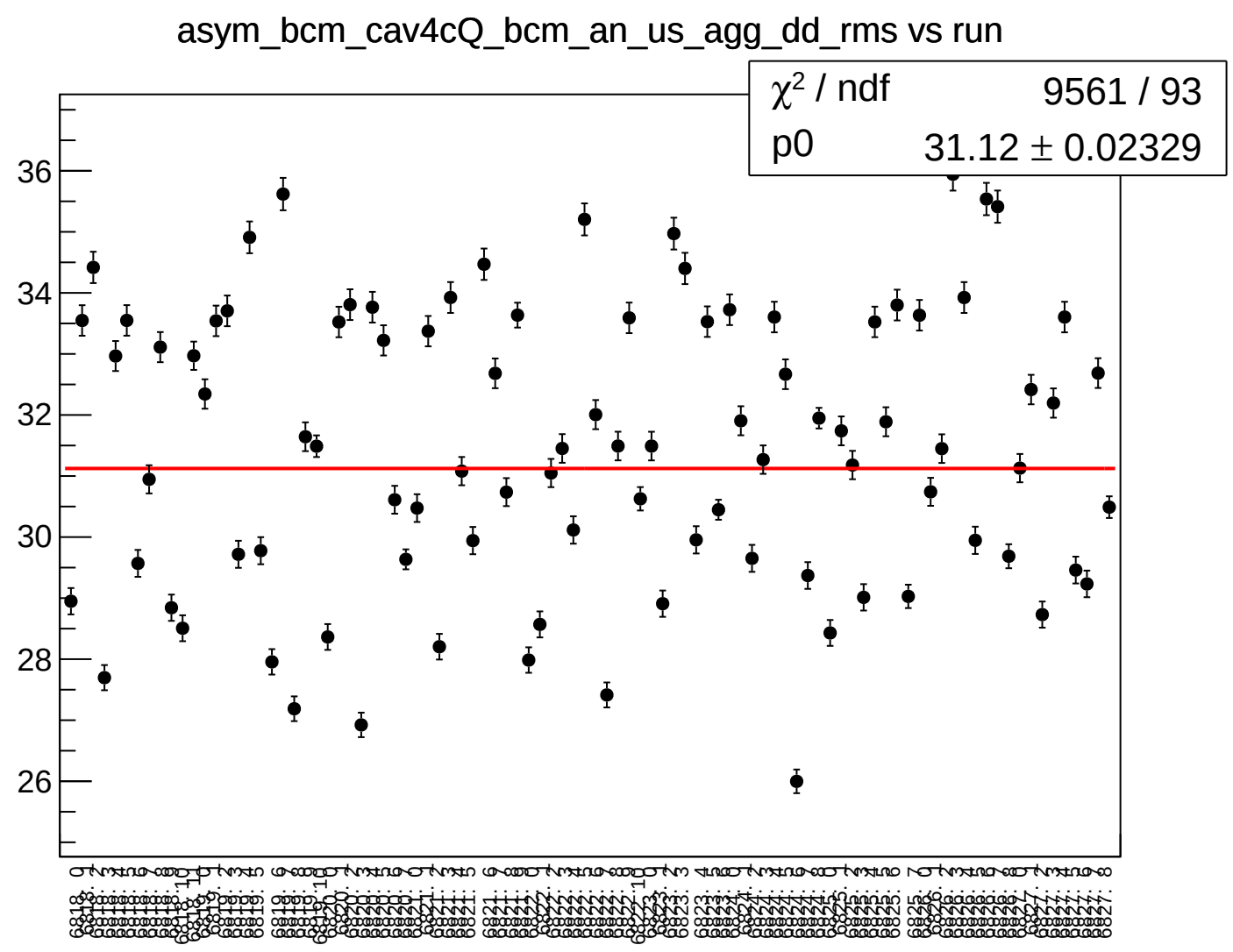

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2451 / 93
p0 23.82 ± 0.01779
26
25
24
23
22
21

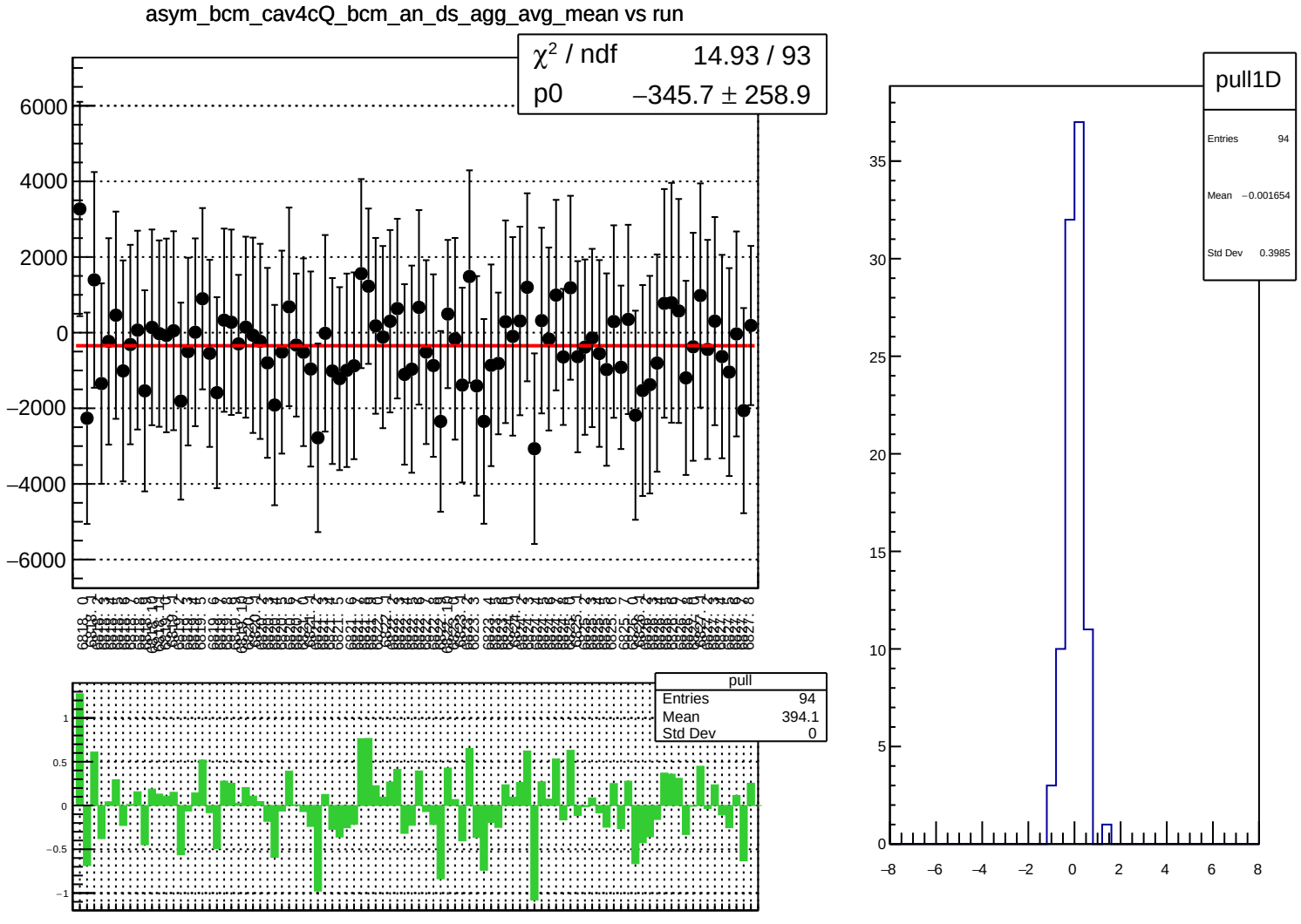

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.51 / 93
p0 −340 ± 259.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 357
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.002326
Std Dev 0.3929
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

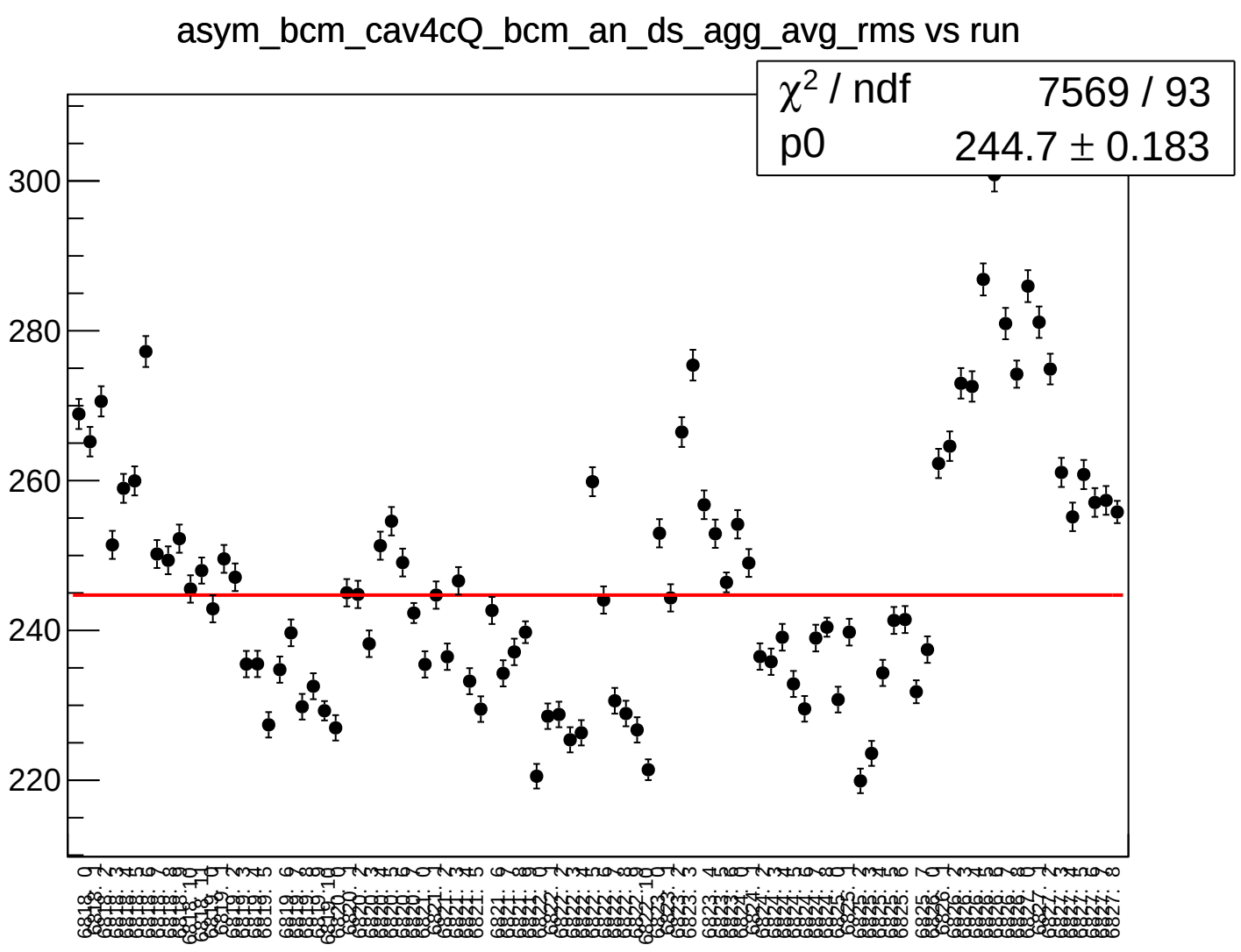

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7591 / 93
p0 245.1 ± 0.1833
300
280
260
240
220

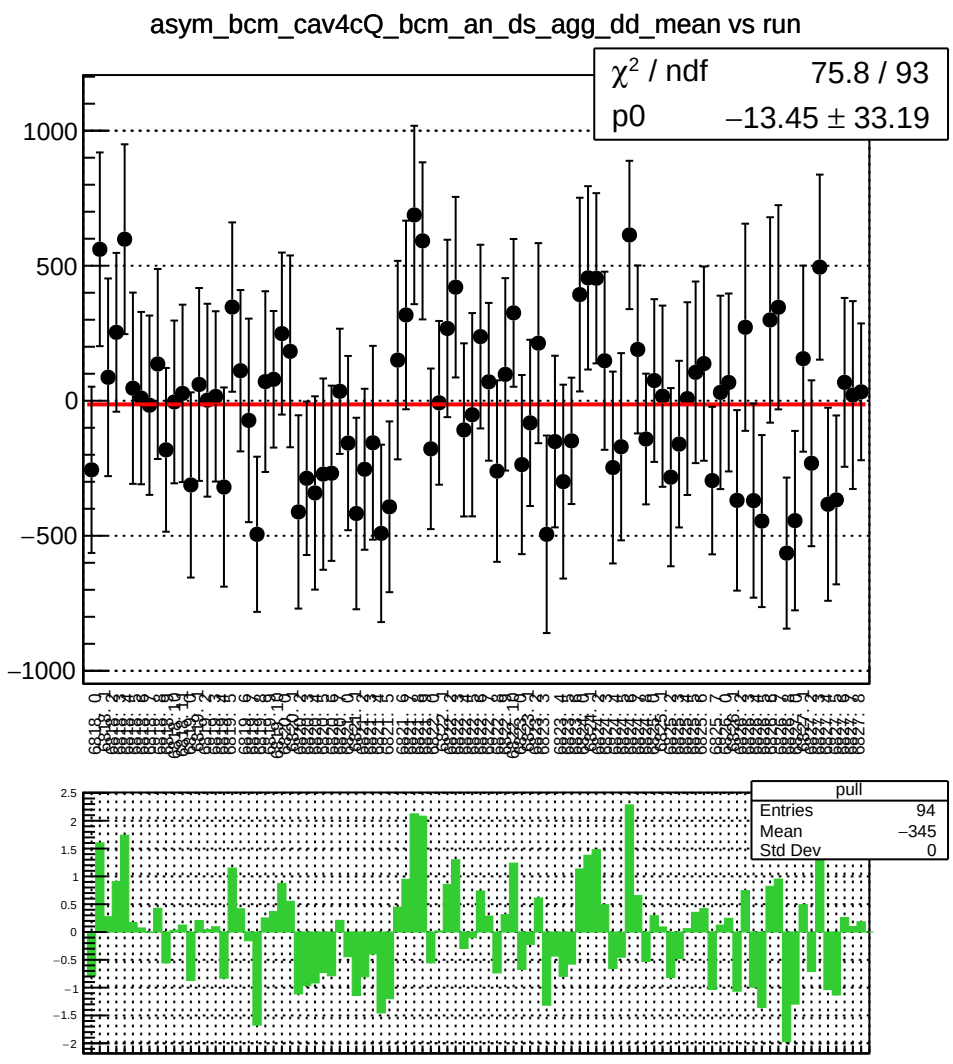

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 74.21 / 93
p0 −16.18 ± 32.94
1000
500
0
−500
−1000
pull
Entries 94
Mean −66.97
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

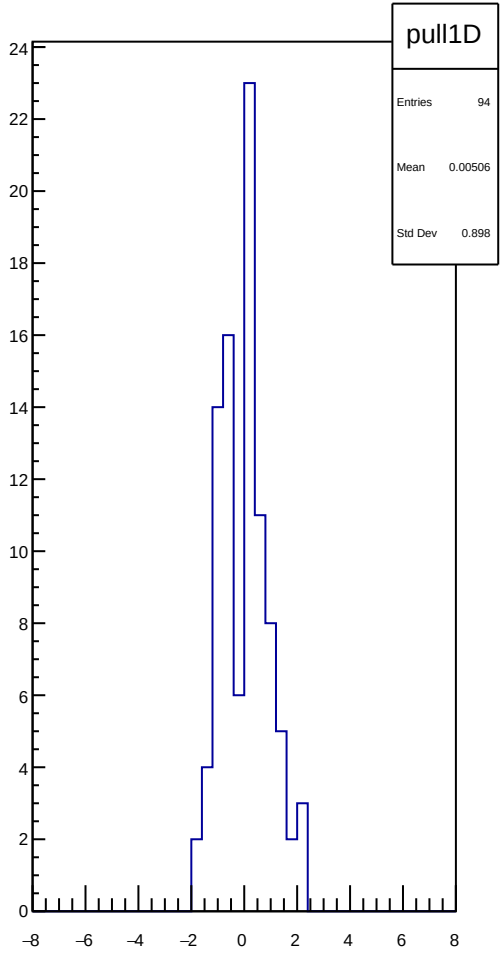

pull1D
Entries 94
Mean 0.006151
Std Dev 0.8885
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

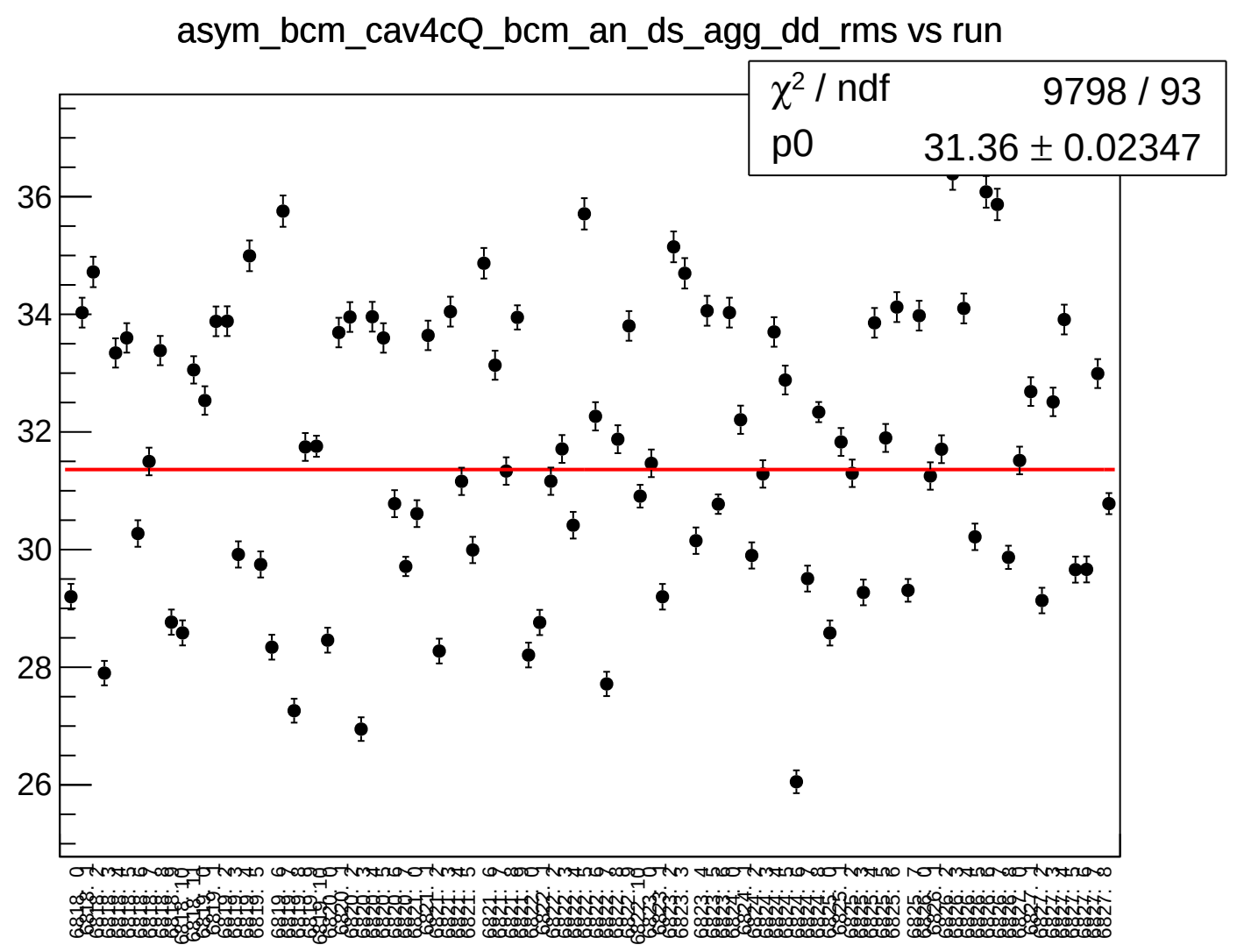

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 9561 / 93
p0 31.12 ± 0.02329
36
34
32
30
28
26

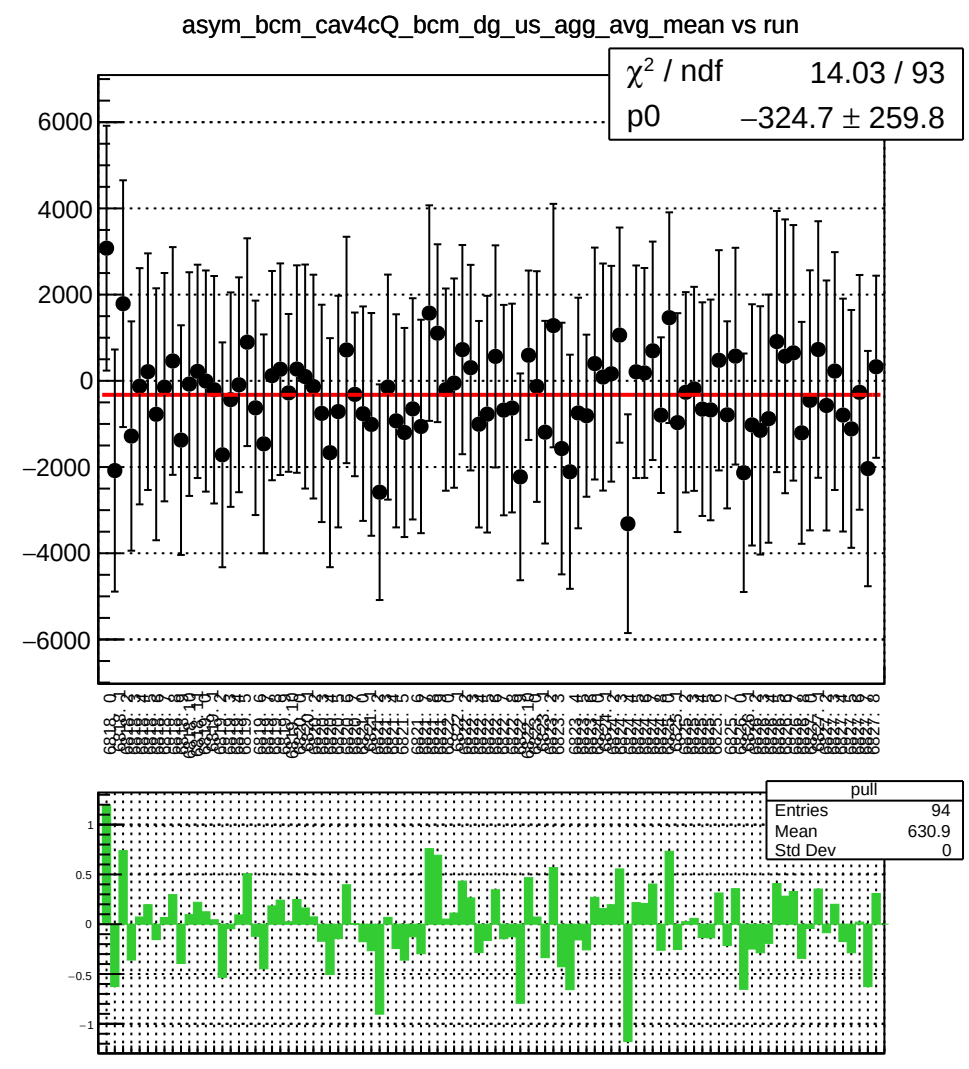

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.93 / 93
p0 −345.7 ± 258.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 394.1
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001654
Std Dev 0.3985
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

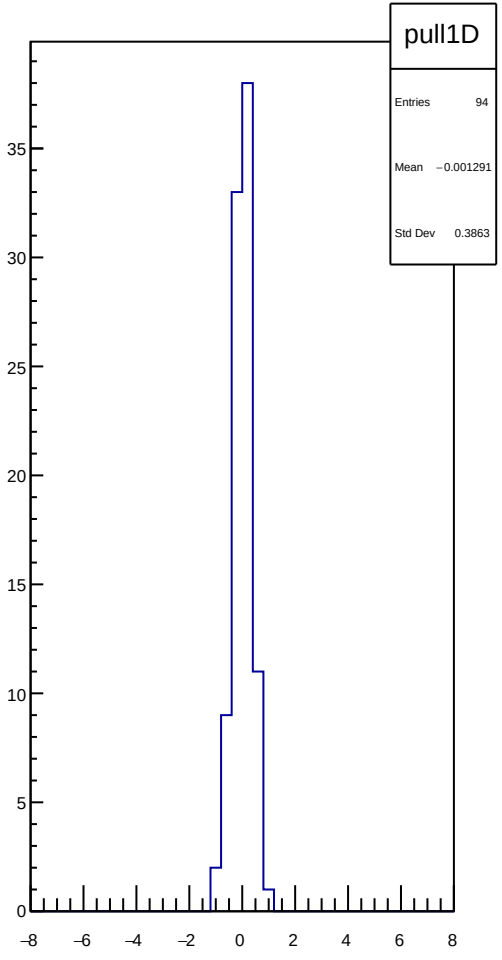

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7569 / 93
p0 244.7 ± 0.183
300
280
260
240
220

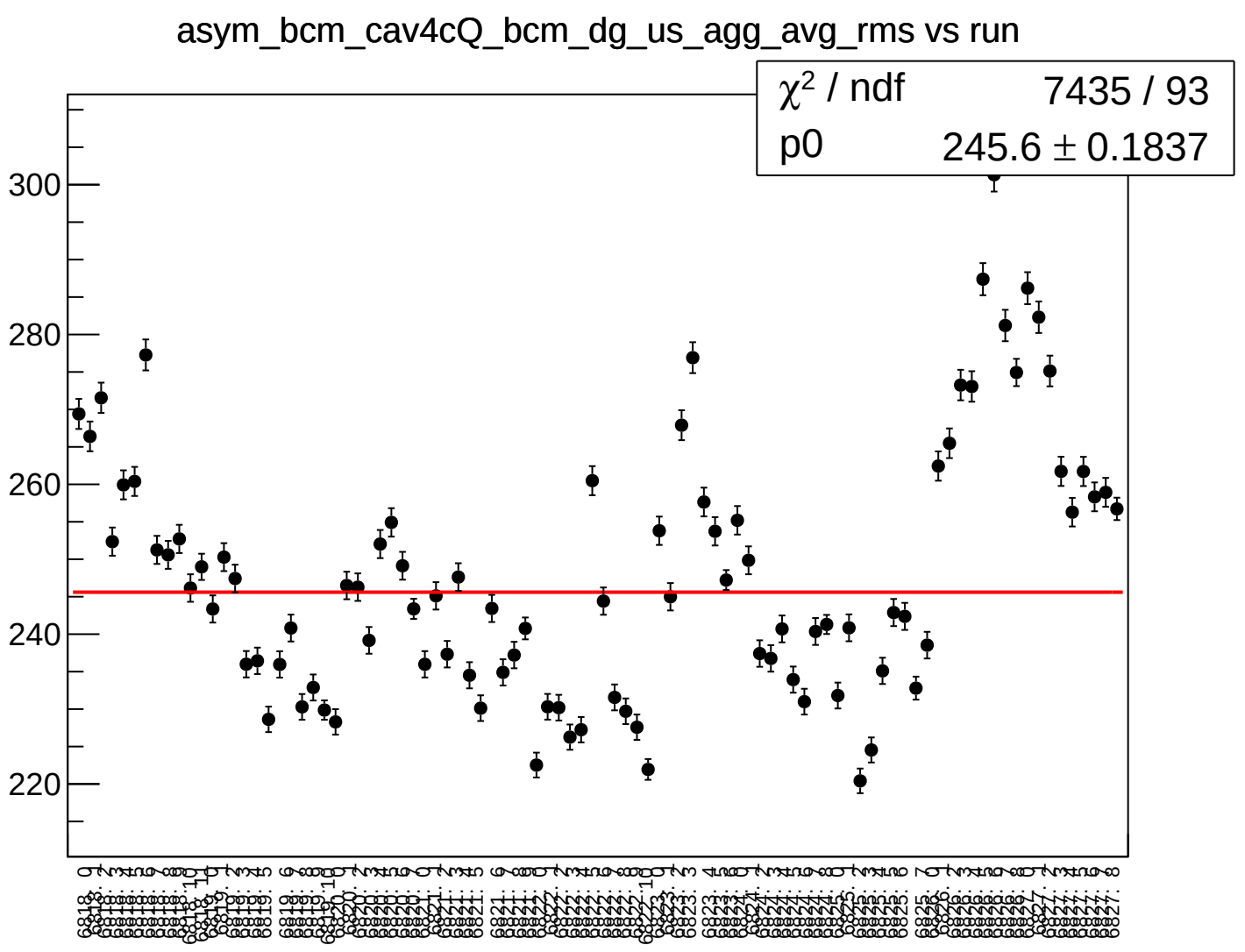

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 75.8 / 93
p0 −13.45 ± 33.19
1000
500
0
−500
−1000
pull
Entries 94
Mean −345
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

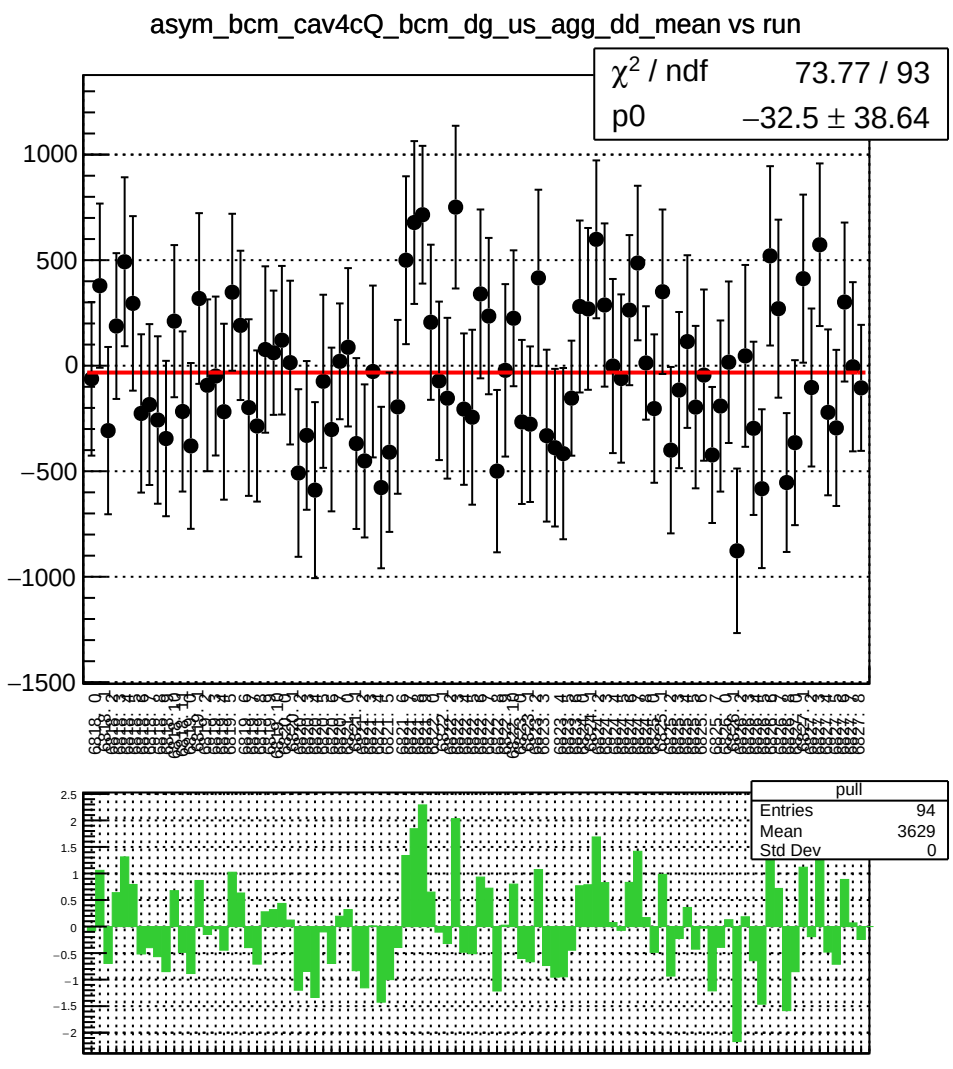

pull1D
Entries 94
Mean 0.00506
Std Dev 0.898
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

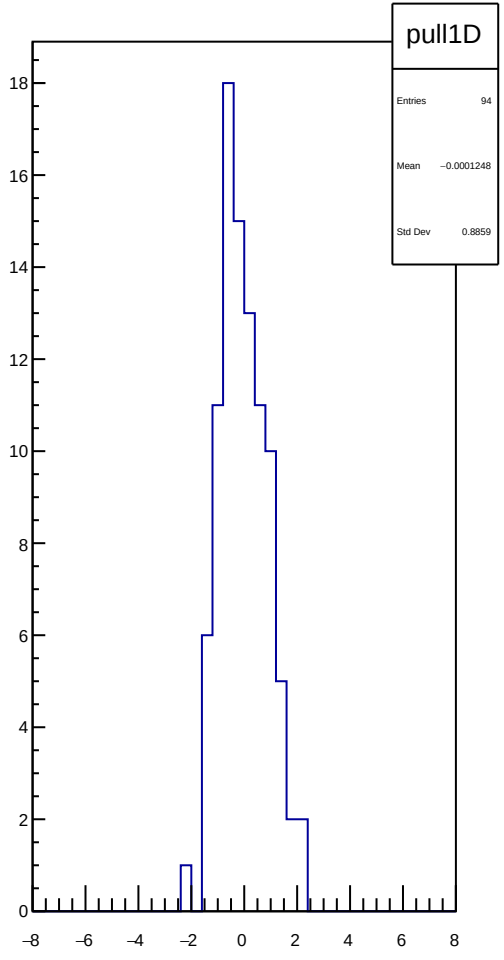

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9798 / 93
p0 31.36 ± 0.02347
36
34
32
30
28
26

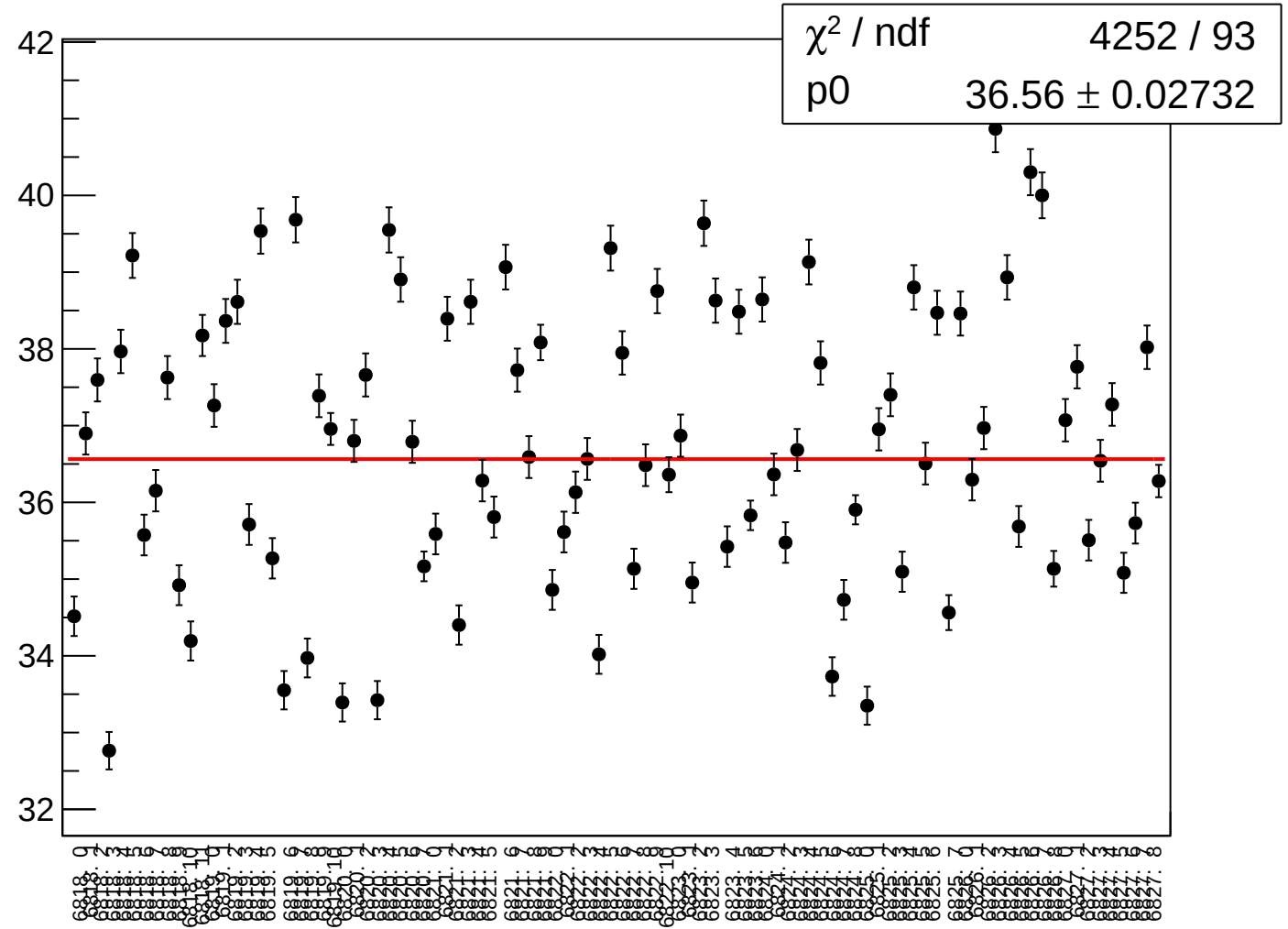

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.03 / 93
p0 −324.7 ± 259.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 630.9
Std Dev 0
1
0.5
0
−0.5
−1

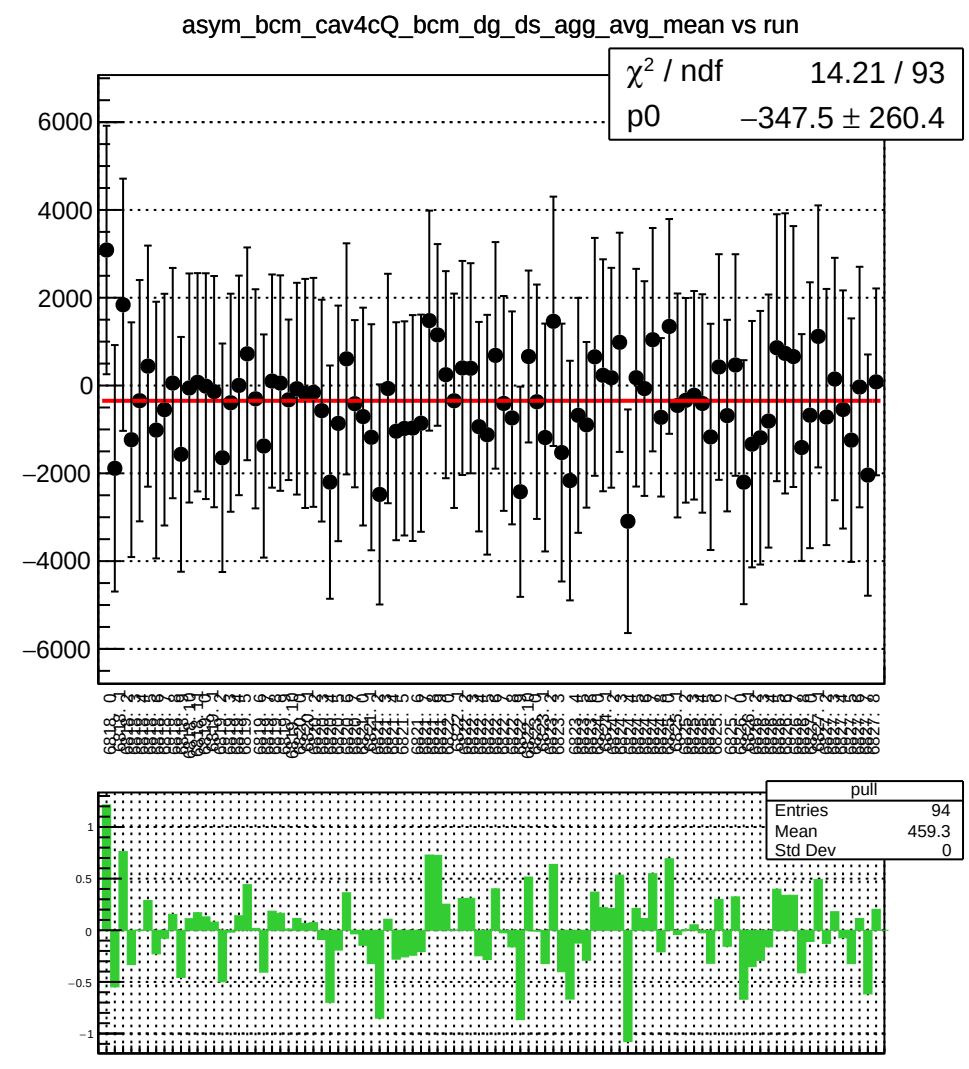

pull1D
Entries 94
Mean −0.001291
Std Dev 0.3863
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

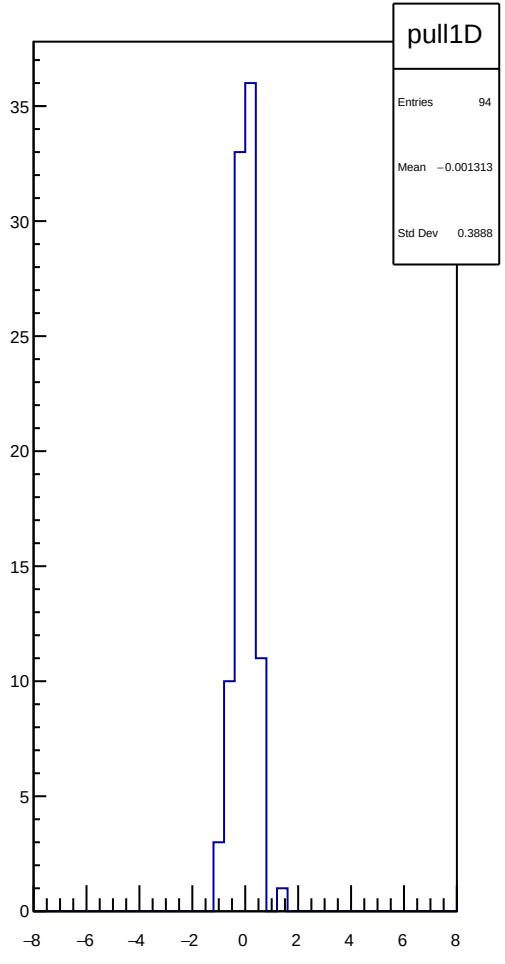

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7435 / 93
p0 245.6 ± 0.1837
300
280
260
240
220

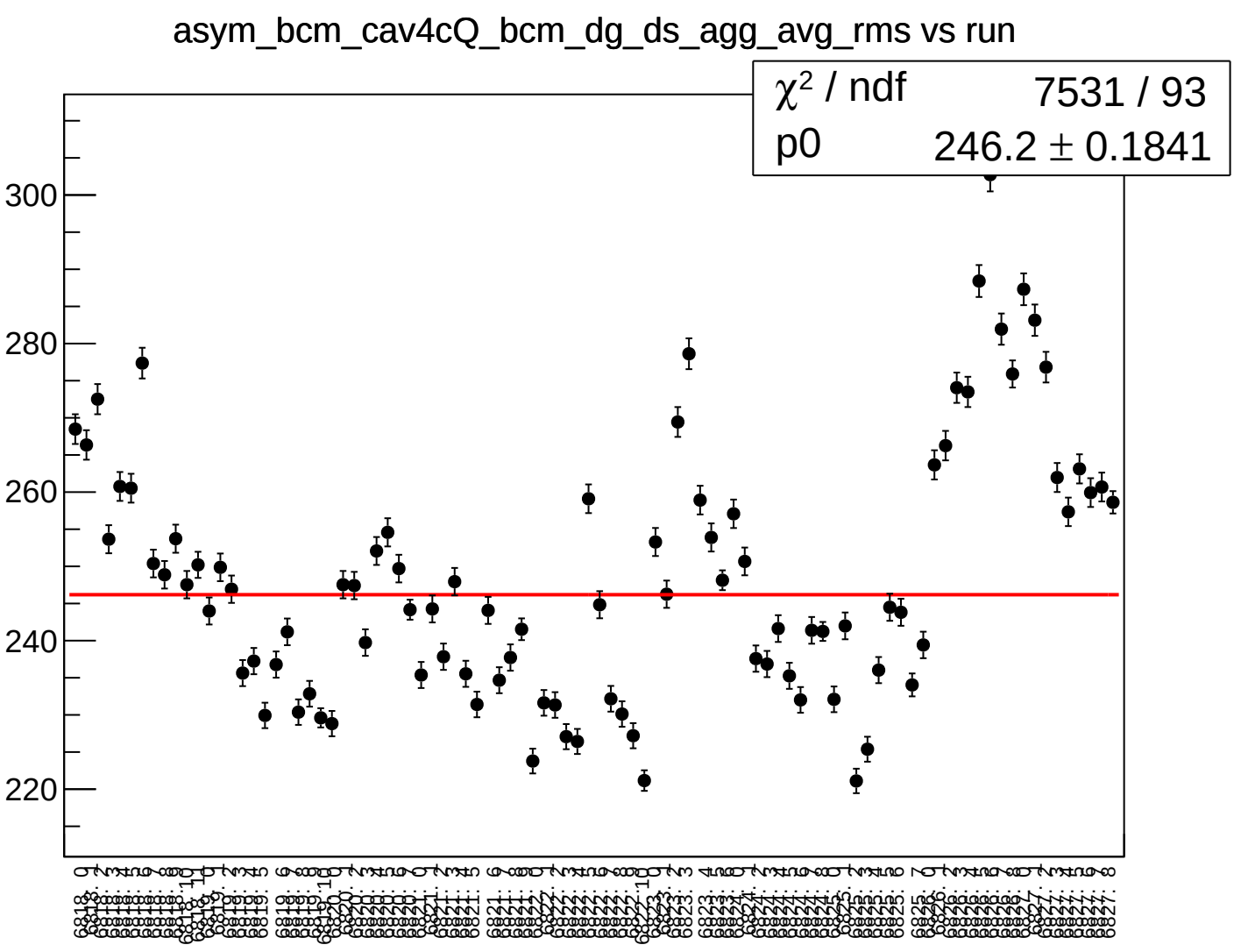

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 73.77 / 93
p0 −32.5 ± 38.64
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 3629
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

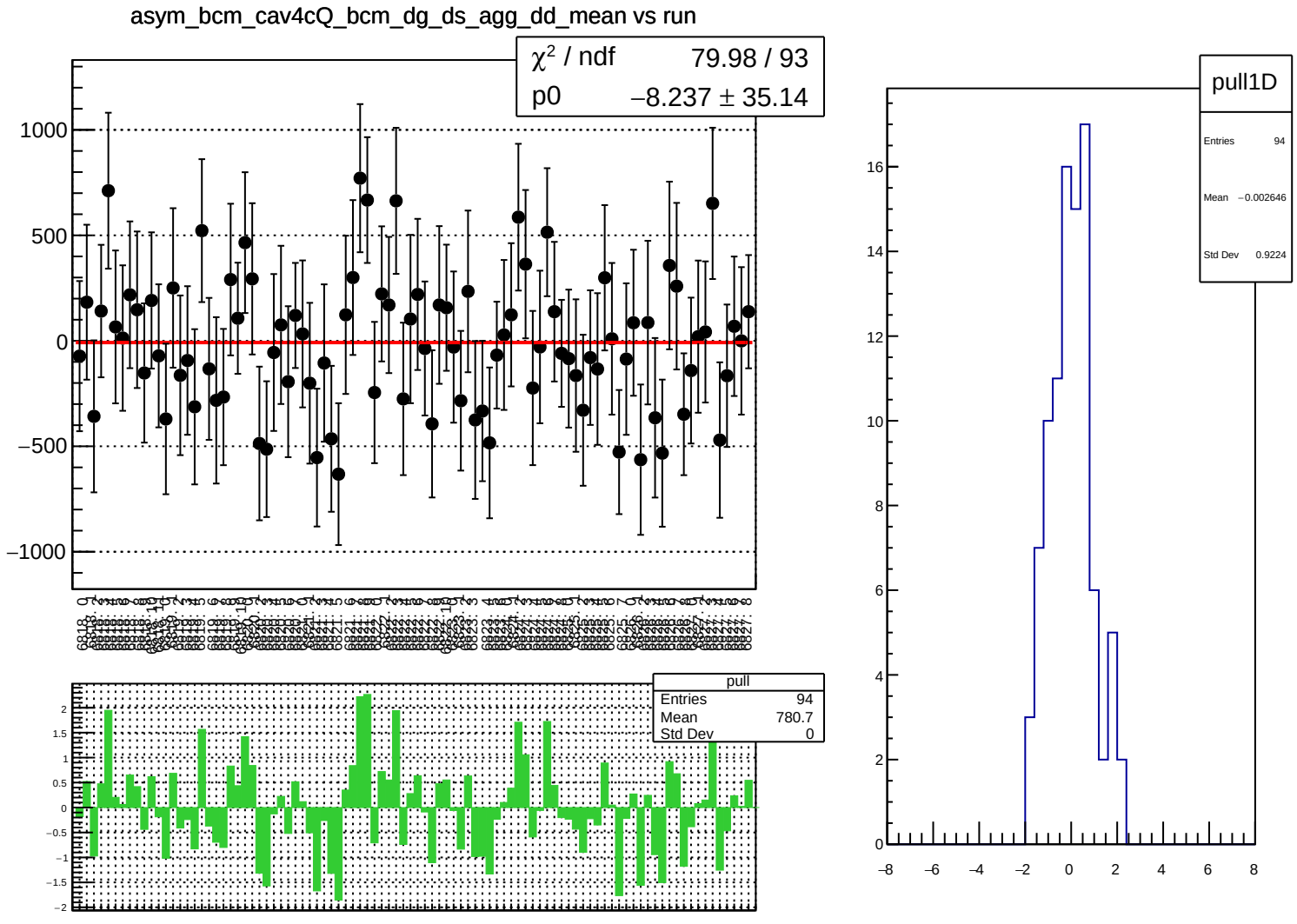

pull1D
Entries 94
Mean −0.0001248
Std Dev 0.8859
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

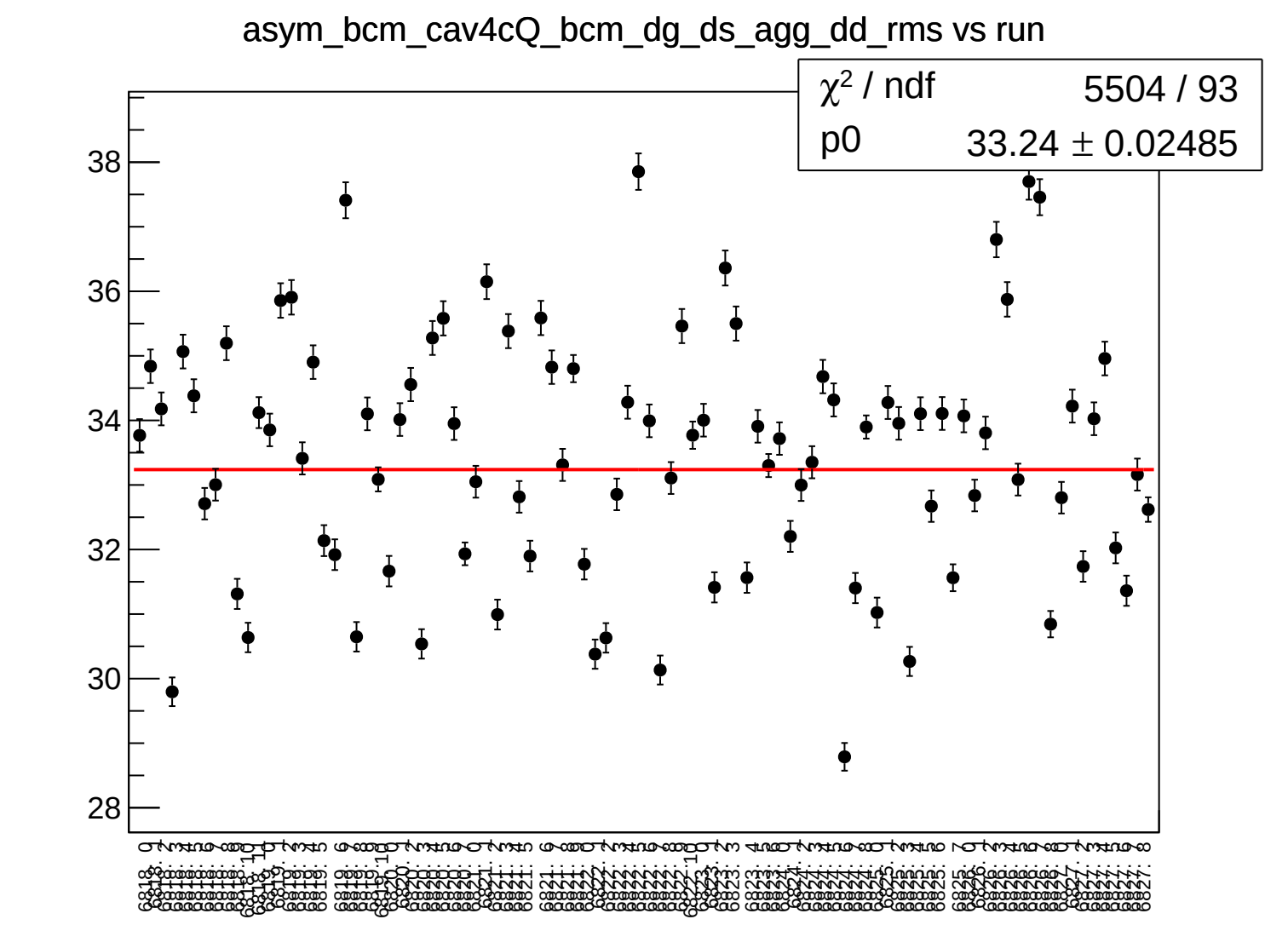

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4252 / 93
p0 36.56 ± 0.02732
42
40
38
36
34
32

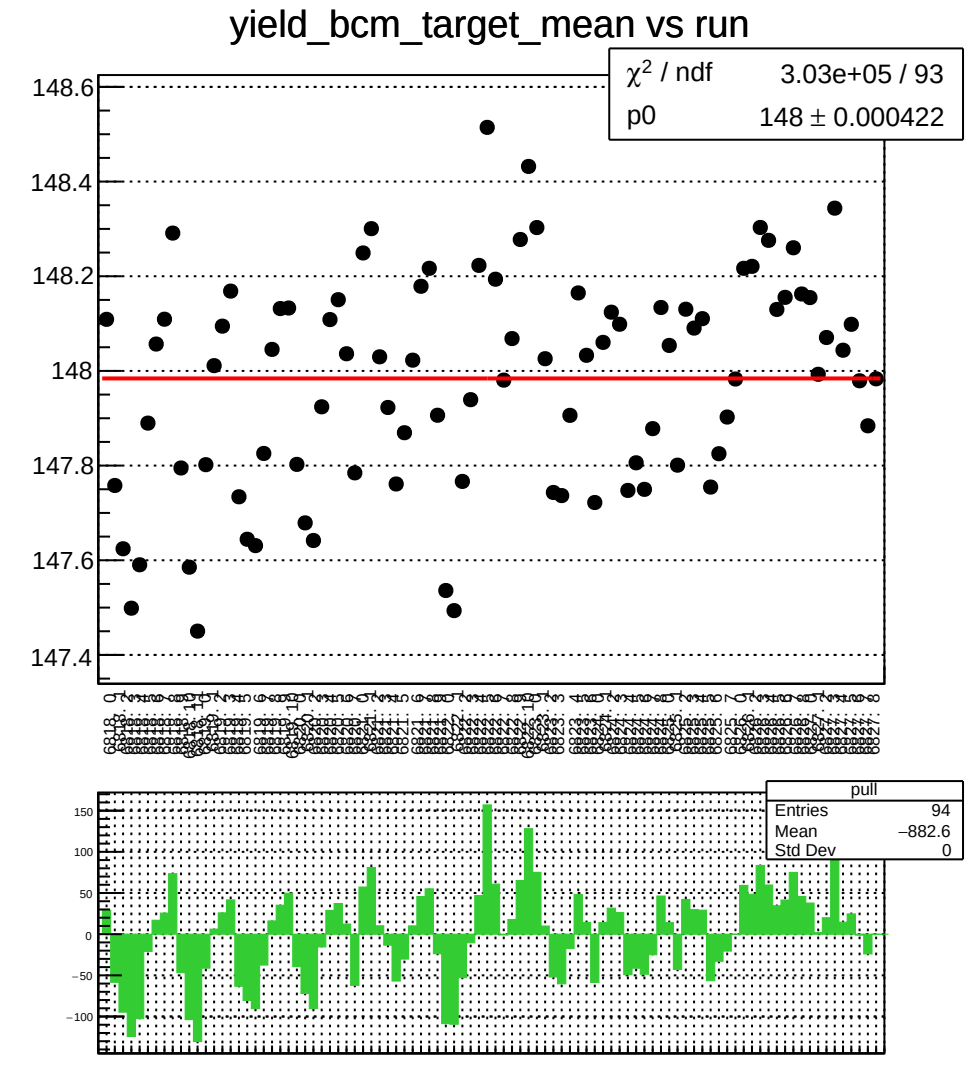

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 14.21 / 93
p0 −347.5 ± 260.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 459.3
Std Dev 0
1
0.5
0
−0.5
−1

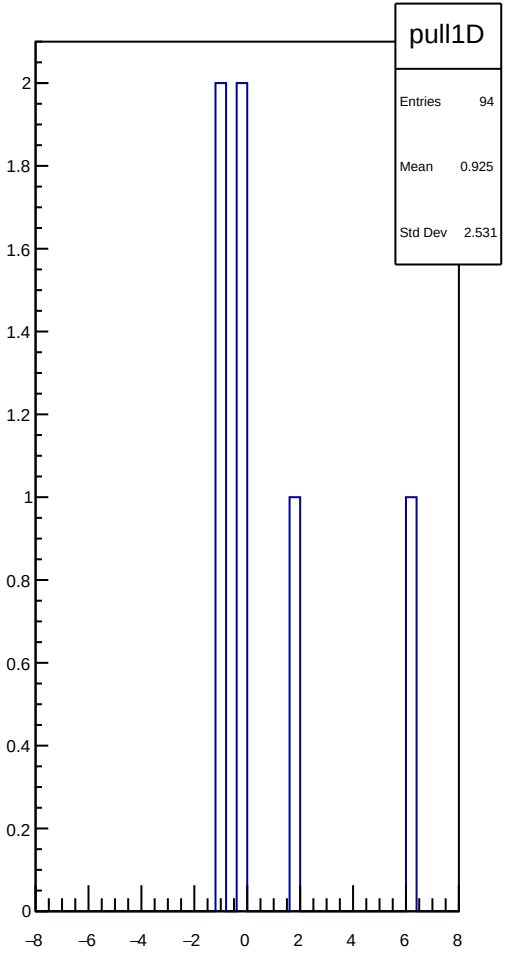

pull1D
Entries 94
Mean −0.001313
Std Dev 0.3888
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

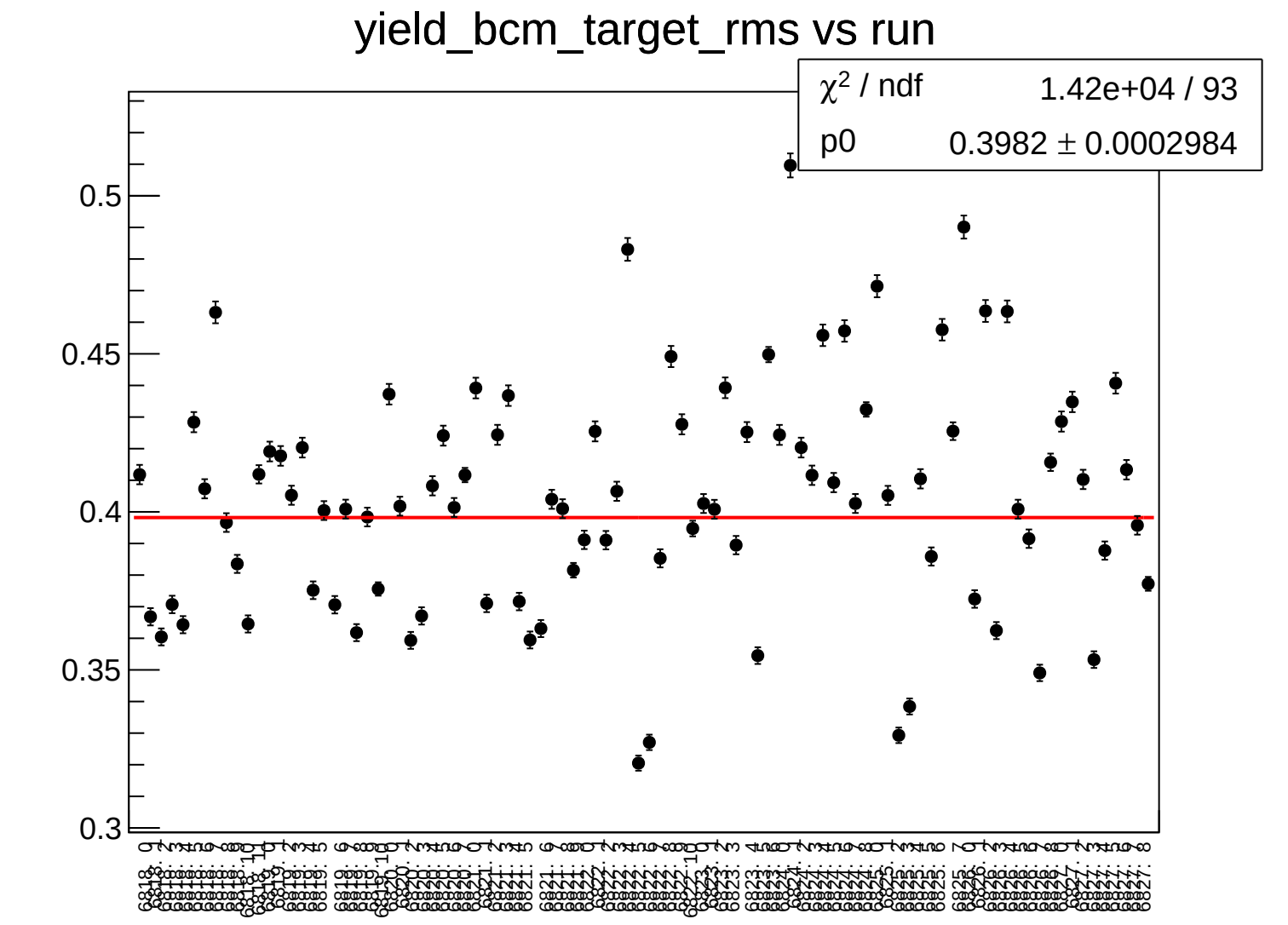

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7531 / 93
p0 246.2 ± 0.1841
300
280
260
240
220

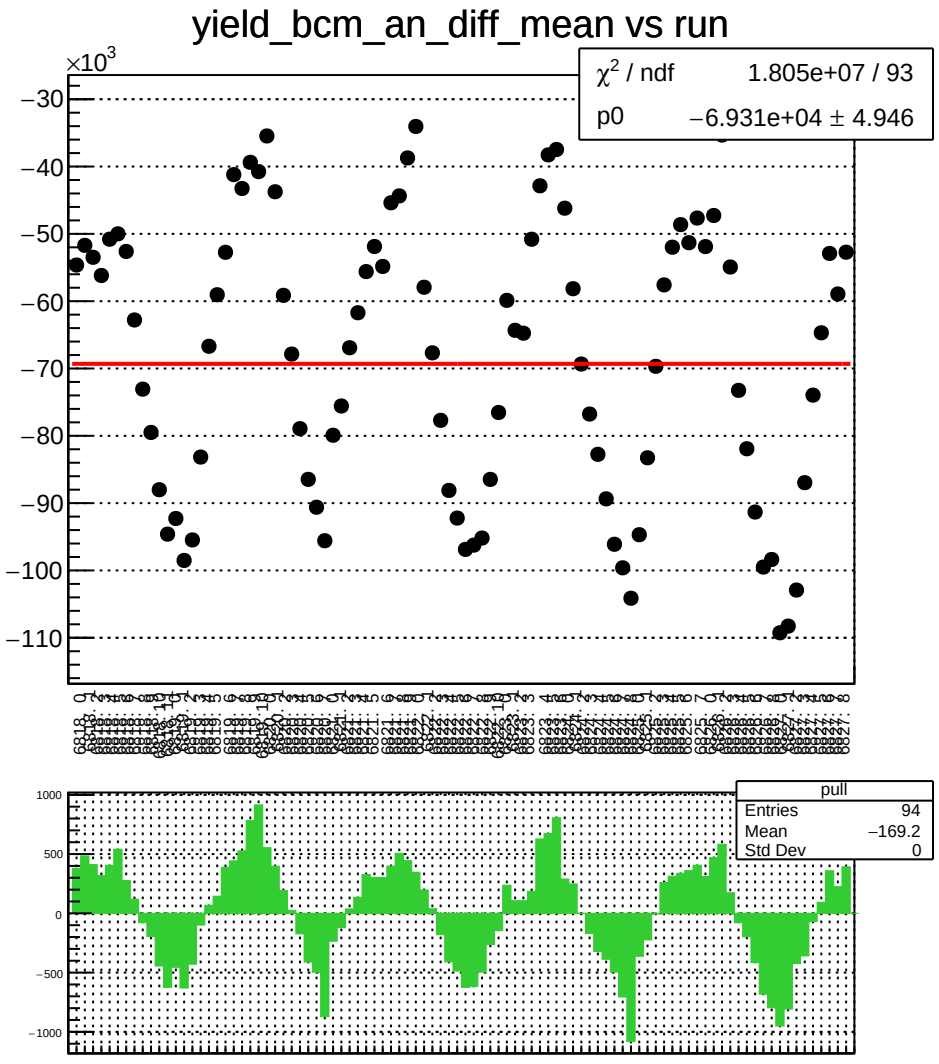

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 79.98 / 93
p0 −8.237 ± 35.14
1000
500
0
−500
−1000
pull
Entries 94
Mean 780.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.002646
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

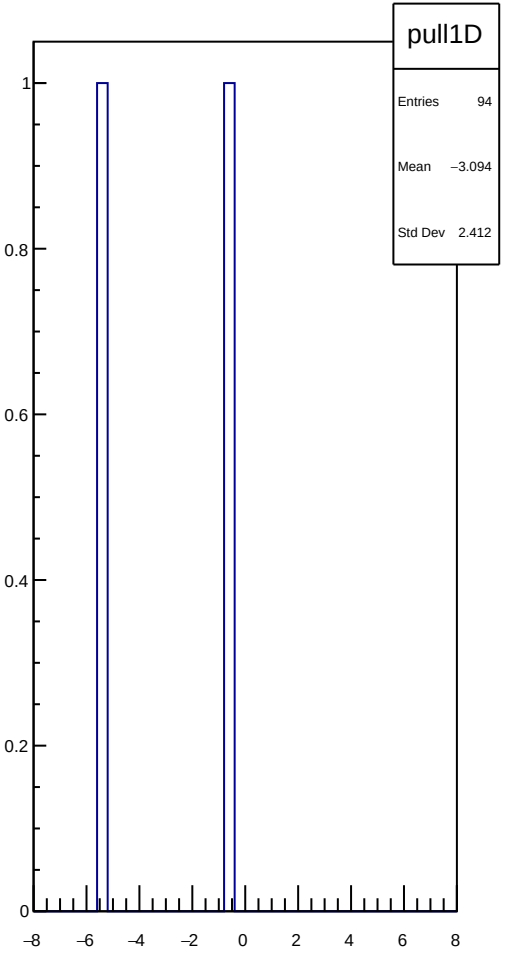

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5504 / 93
p0 33.24 ± 0.02485
38
36
34
32
30
28

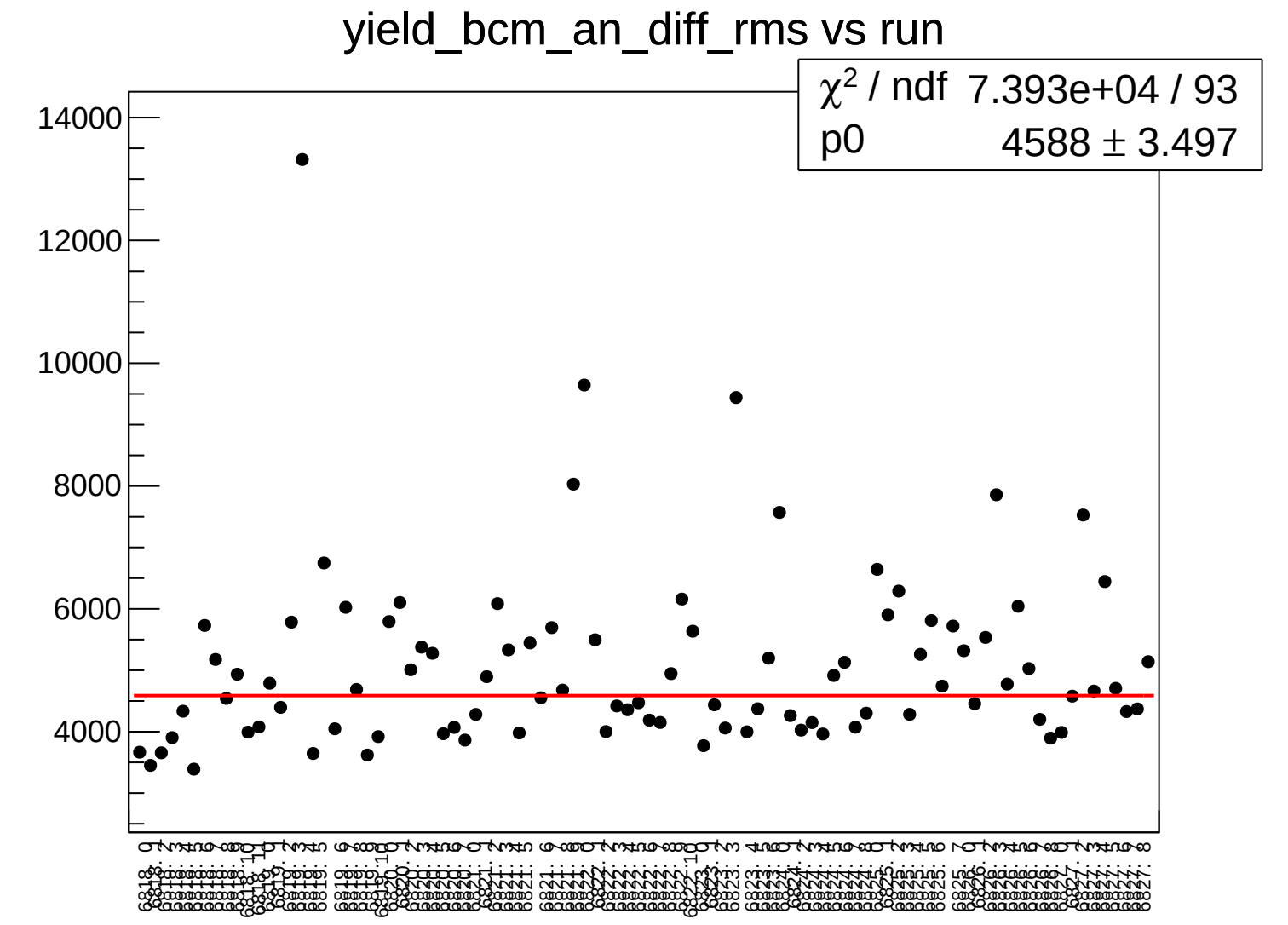

yield_bcm_target_mean vs run
χ² / ndf 3.03e+05 / 93
p0 148 ± 0.000422
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean −882.6
Std Dev 0
150
100
50
0
−50
−100

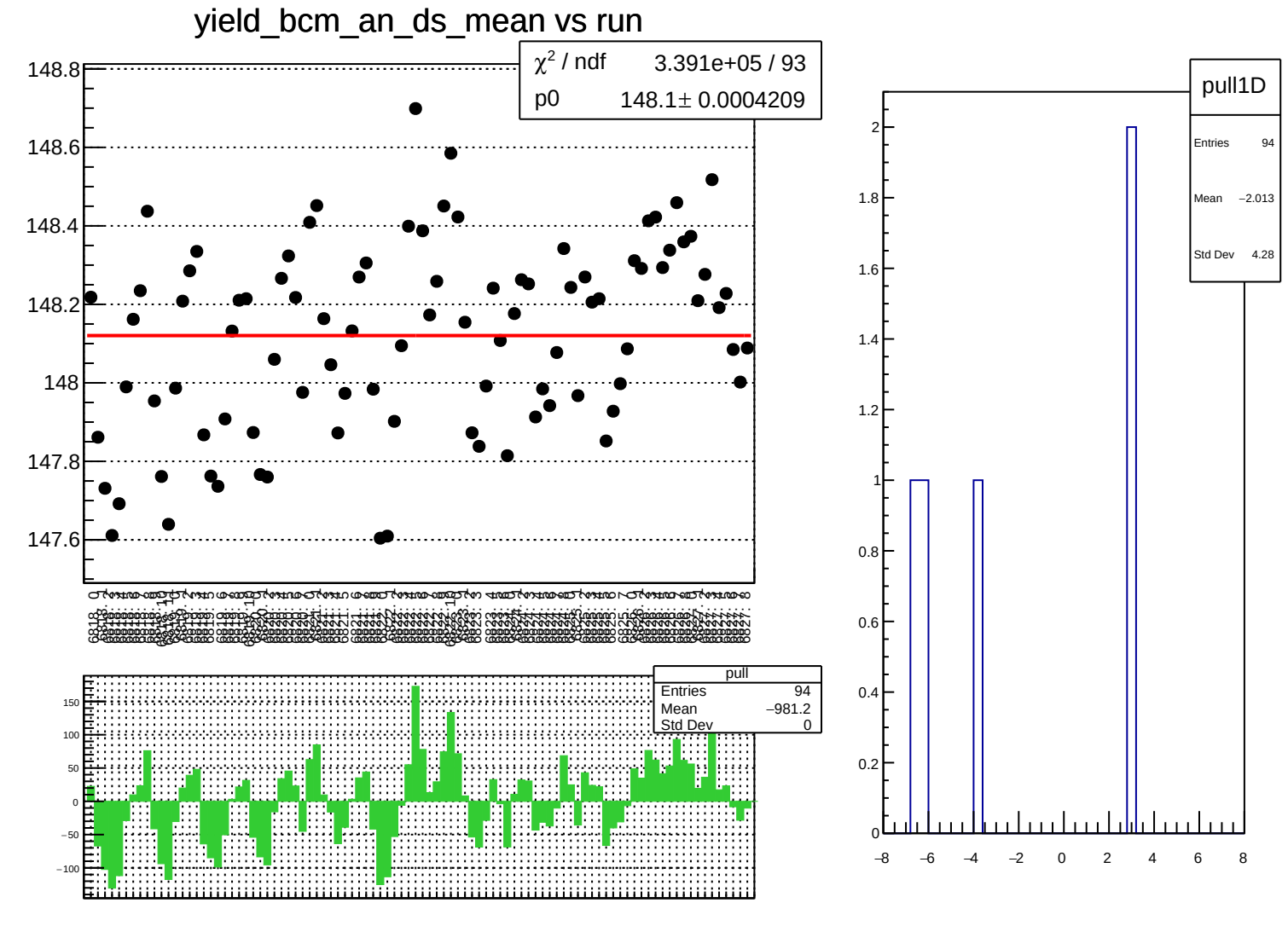

pull1D
Entries 94
Mean 0.925
Std Dev 2.531
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

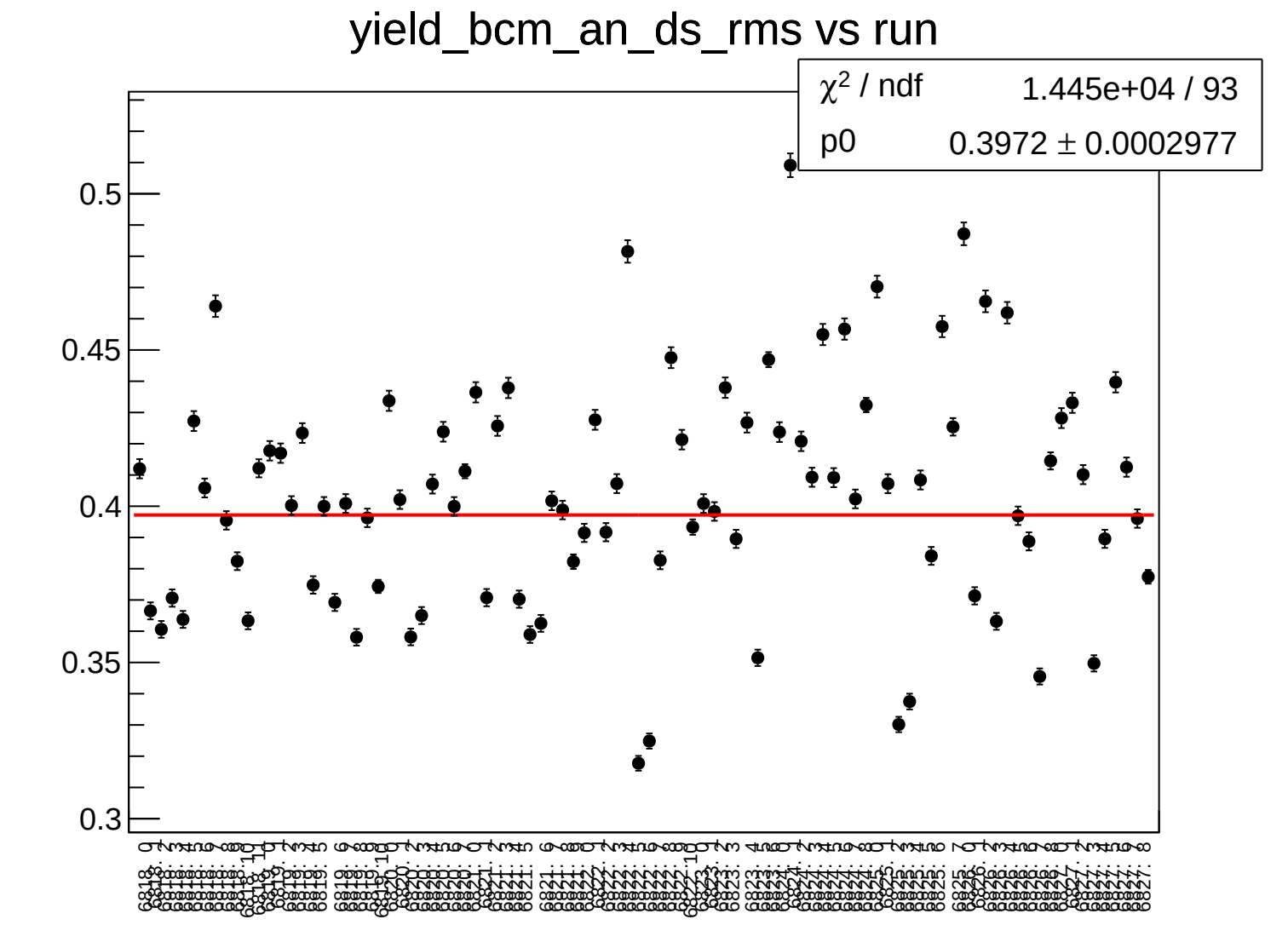

yield_bcm_target_rms vs run
χ² / ndf 1.42e+04 / 93
p0 0.3982 ± 0.0002984
0.5
0.45
0.4
0.35
0.3

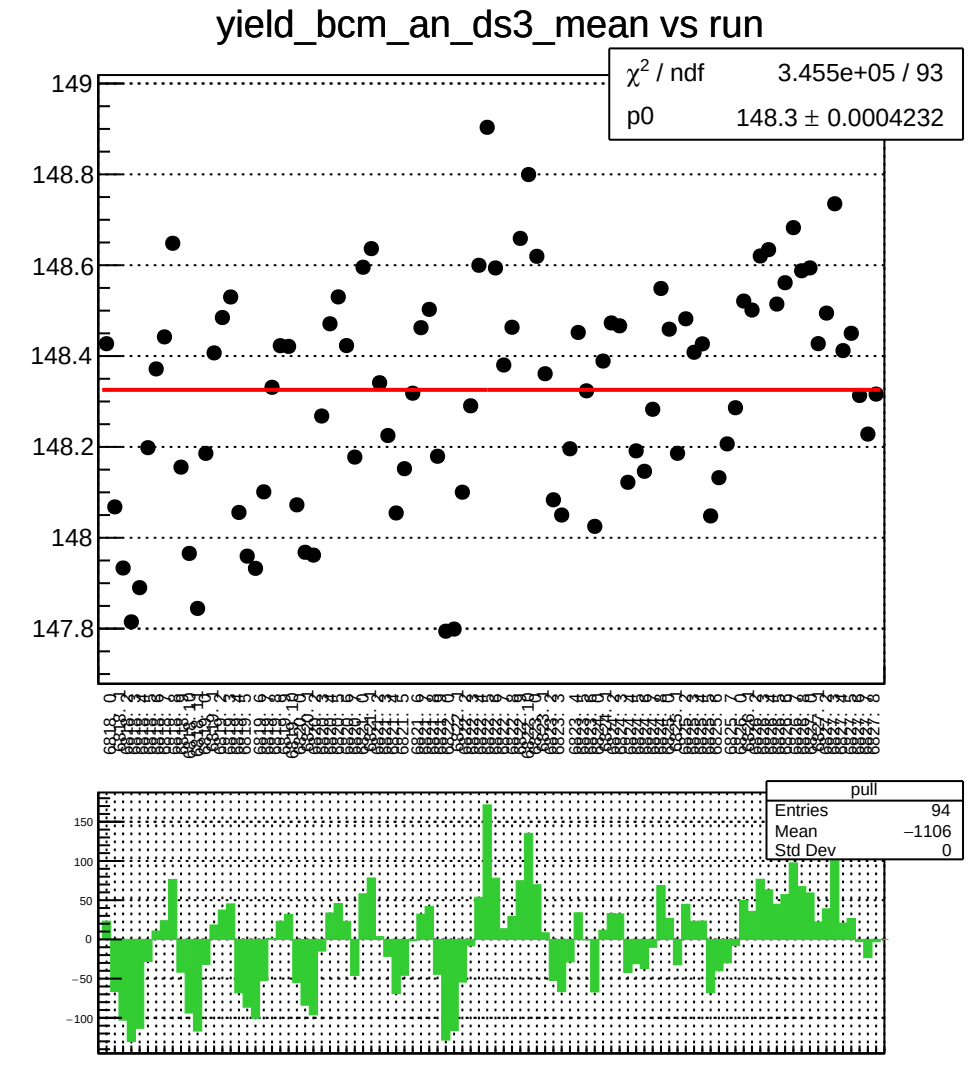

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.805e+07 / 93
p0 −6.931e+04 ± 4.946
−30
−40
−50
−60
−70
−80
−90
−100
−110
pull
Entries 94
Mean −169.2
Std Dev 0
1000
500
0
−500
−1000

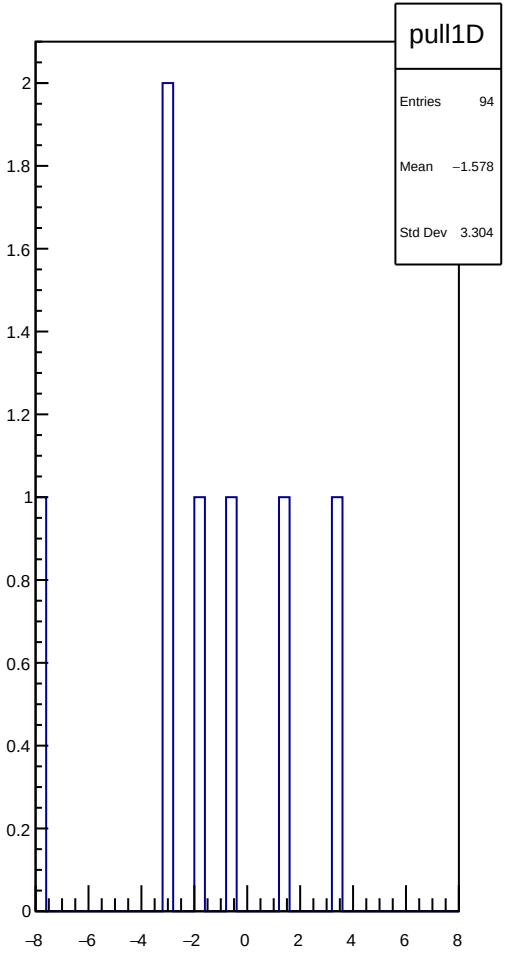

pull1D
Entries 94
Mean −3.094
Std Dev 2.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

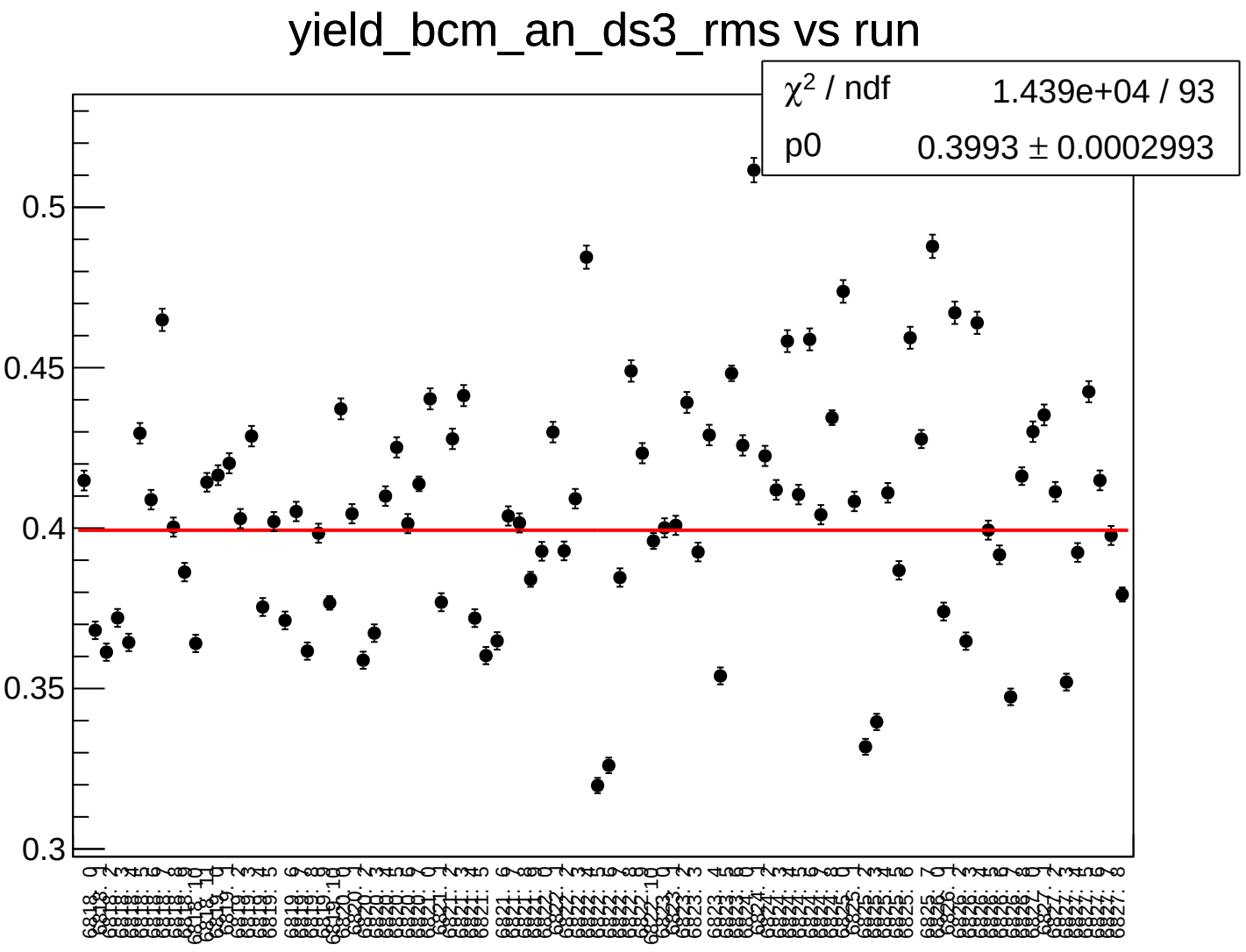

yield_bcm_an_diff_rms vs run
χ^2 / ndf 7.393e+04 / 93
p0 4588 ± 3.497
14000
12000
10000
8000
6000
4000

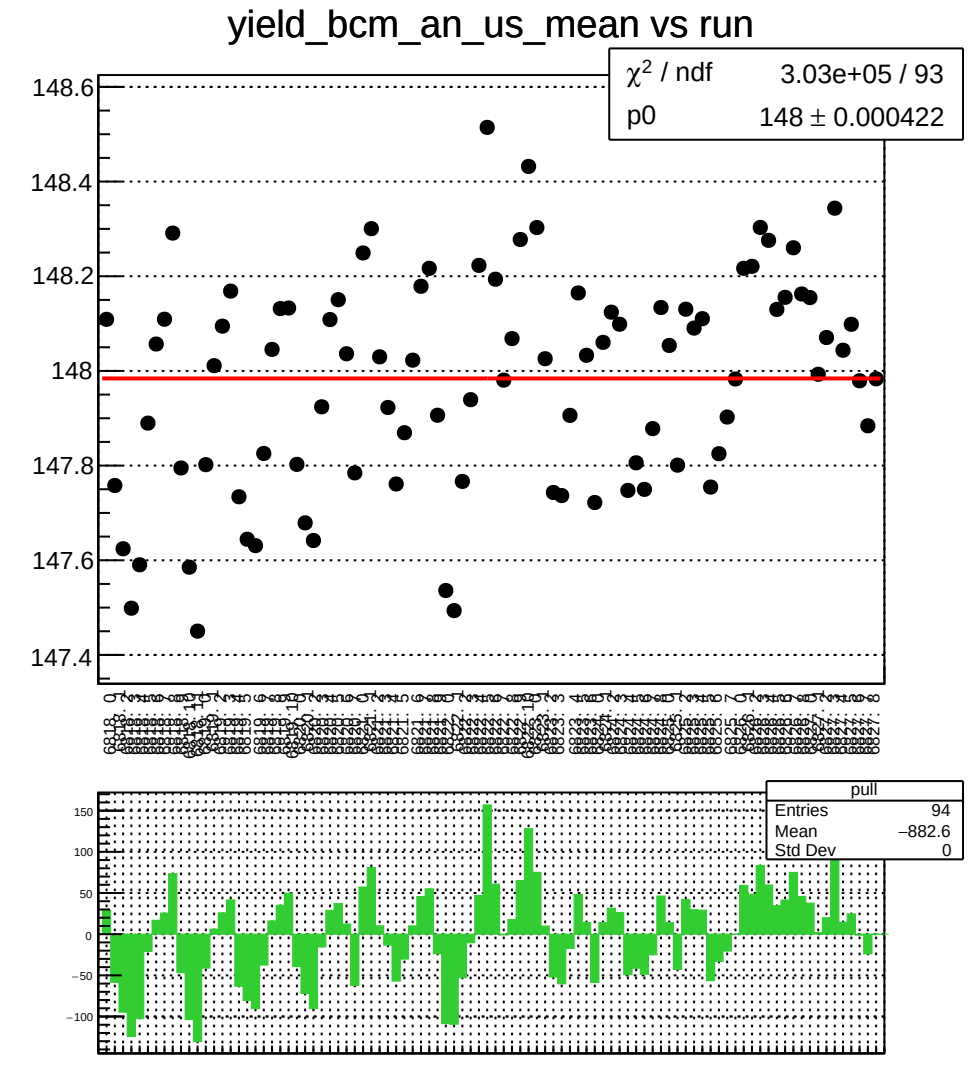

yield_bcm_an_ds_mean vs run
χ² / ndf 3.391e+05 / 93
p0 148.1± 0.0004209
148.8
148.6
148.4
148.2
148
147.8
147.6
pull
Entries 94
Mean −981.2
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 94
Mean −2.013
Std Dev 4.28
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

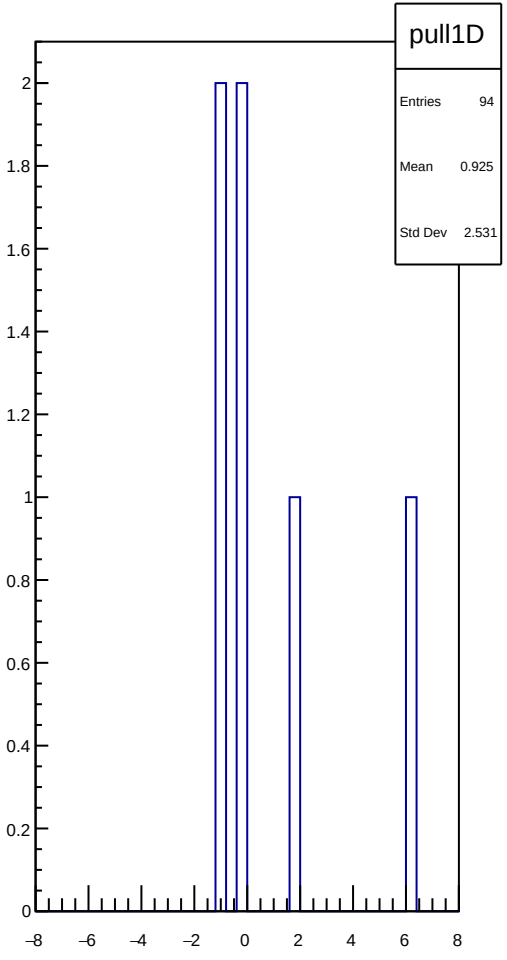

yield_bcm_an_ds_rms vs run
χ² / ndf 1.445e+04 / 93
p0 0.3972 ± 0.0002977
0.5
0.45
0.4
0.35
0.3

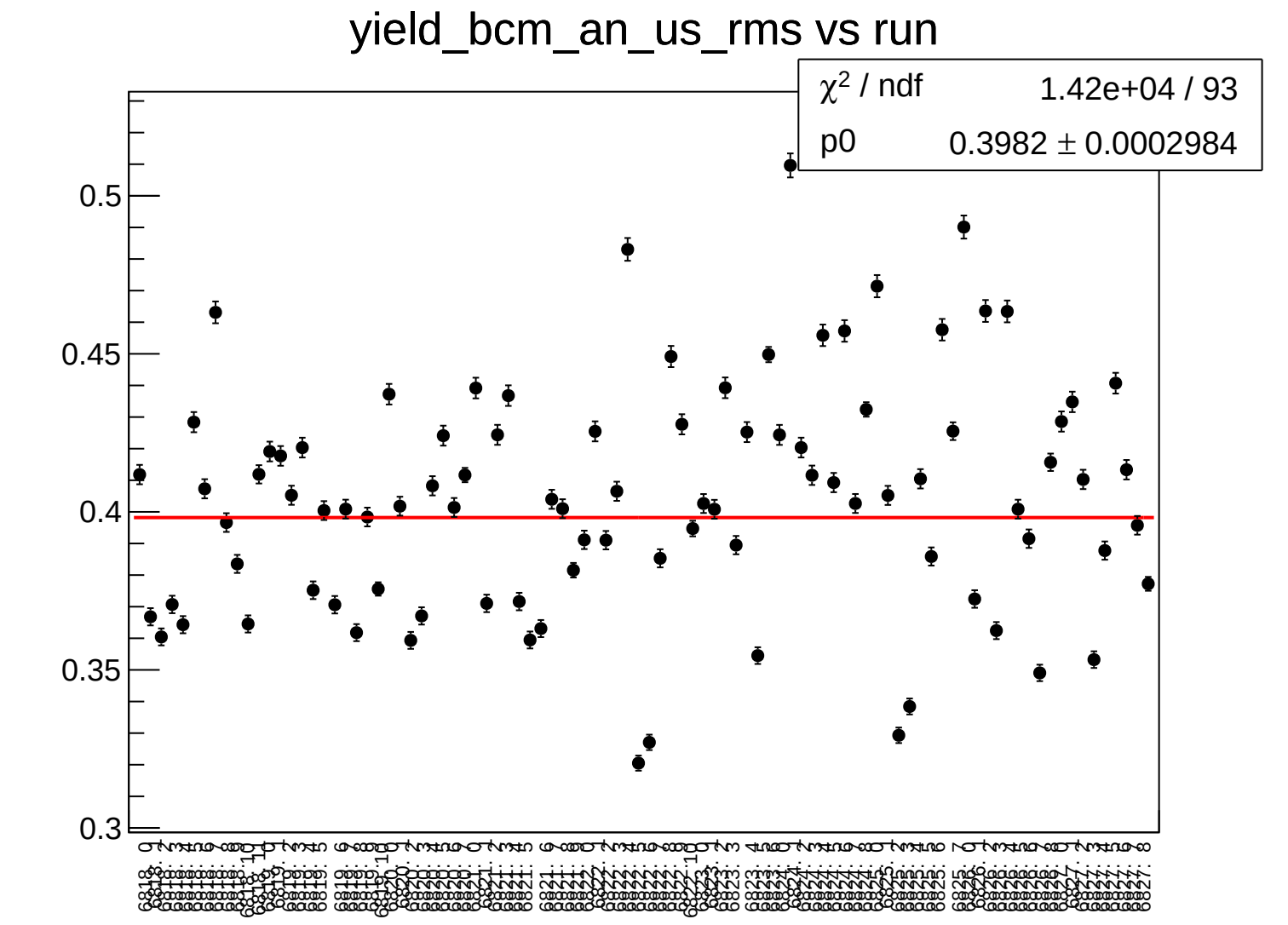

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.455e+05 / 93
p0 148.3 ± 0.0004232
149
148.8
148.6
148.4
148.2
148
147.8
pull
Entries 94
Mean −1106
Std Dev 0
150
100
50
0
−50
−100

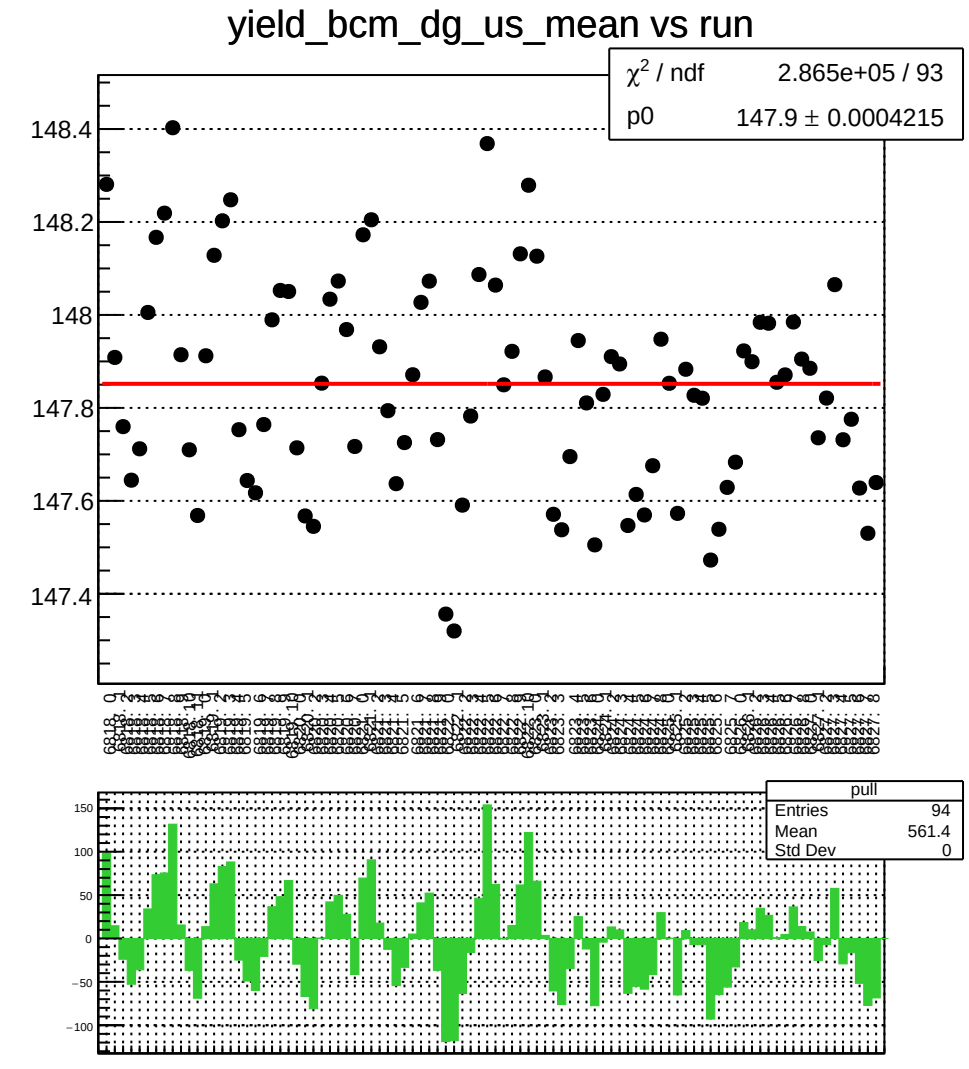

pull1D
Entries 94
Mean −1.578
Std Dev 3.304
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

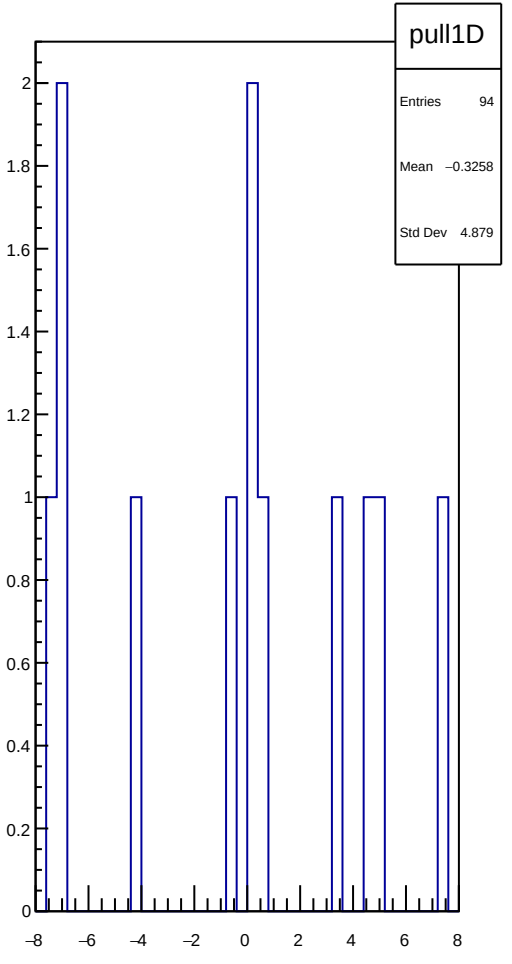

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.439e+04 / 93
p0 0.3993 ± 0.0002993
0.5
0.45
0.4
0.35
0.3

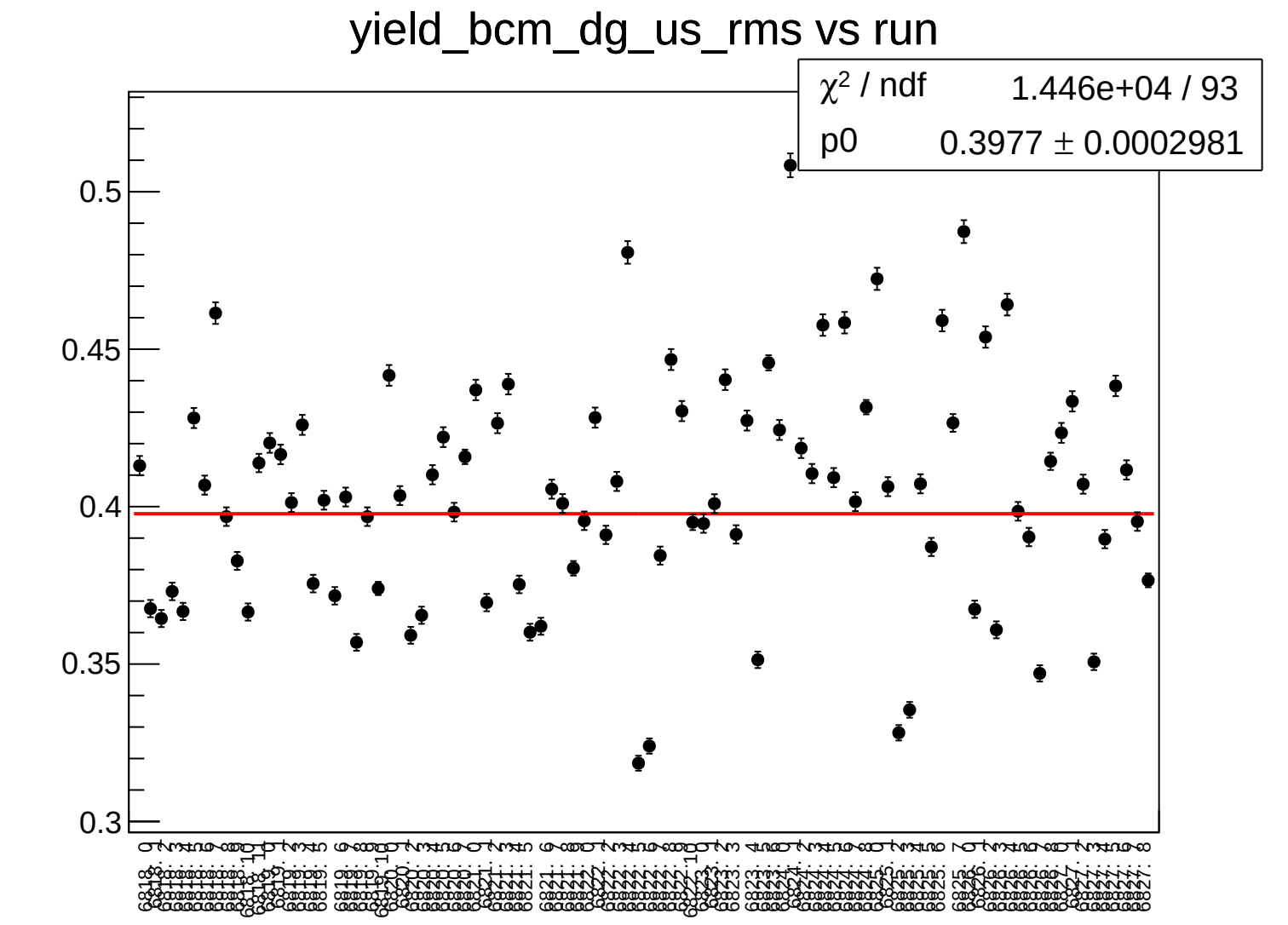

yield_bcm_an_us_mean vs run
χ² / ndf 3.03e+05 / 93
p0 148 ± 0.000422
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean −882.6
Std Dev 0
150
100
50
0
−50
−100

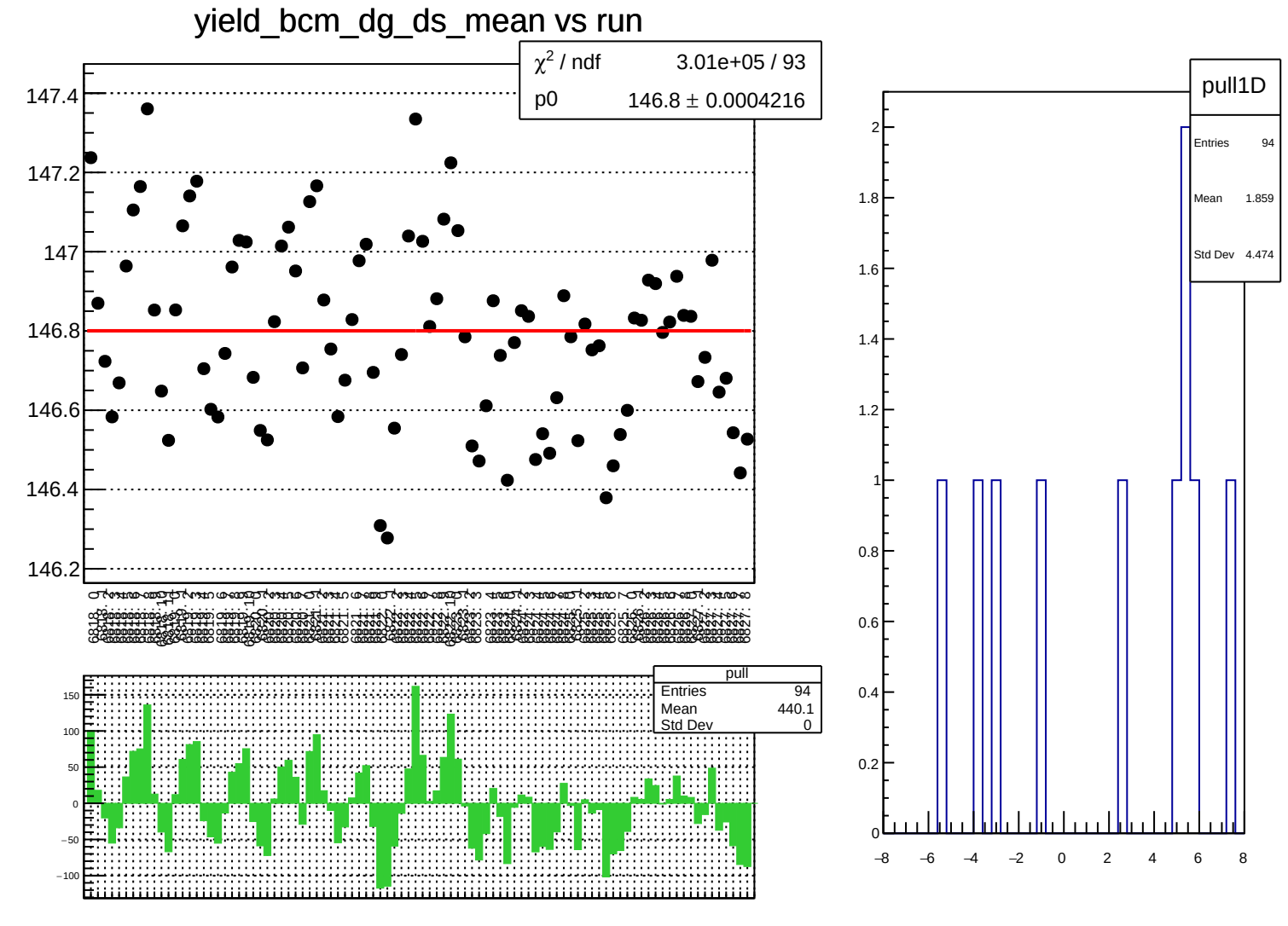

pull1D
Entries 94
Mean 0.925
Std Dev 2.531
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

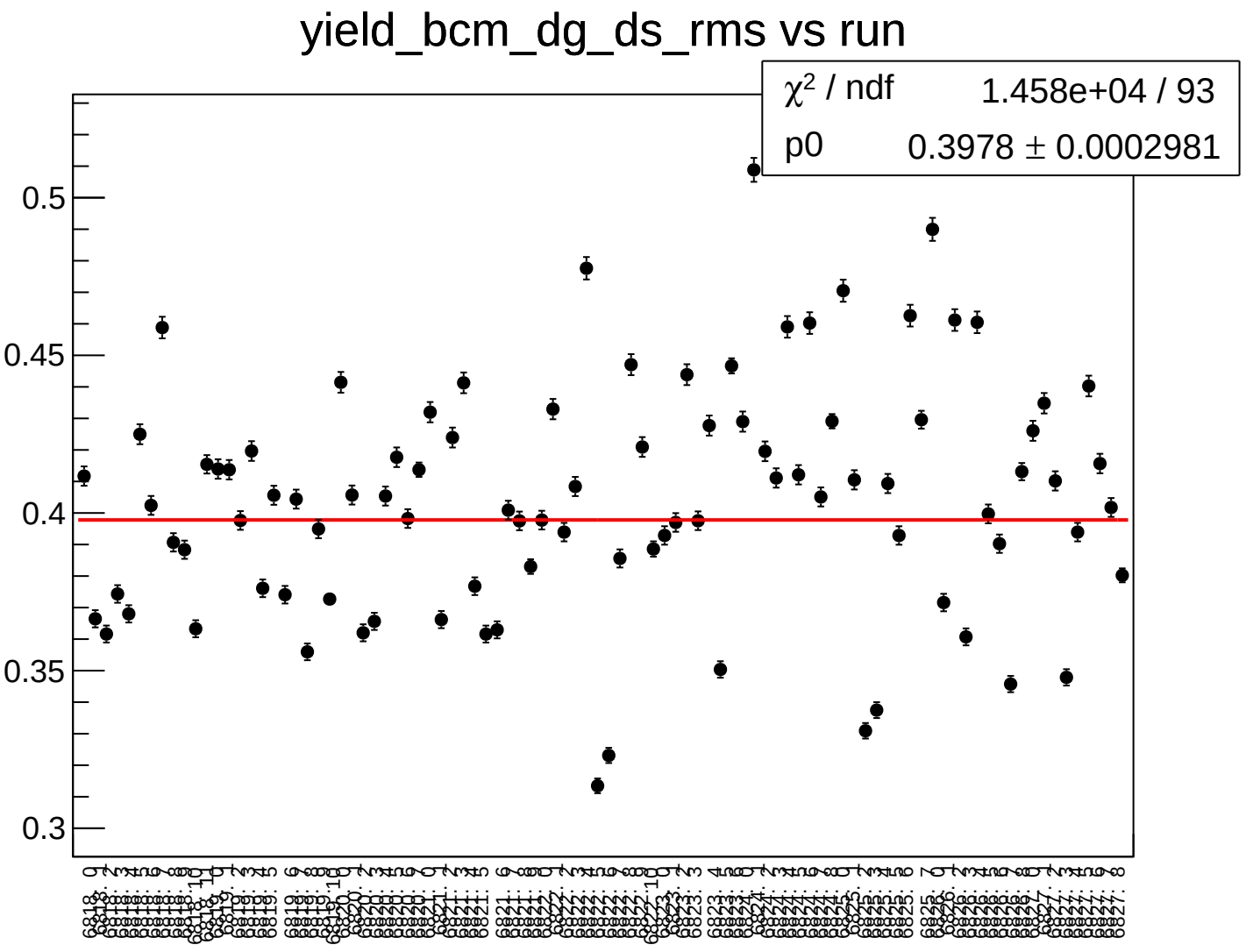

yield_bcm_an_us_rms vs run
χ² / ndf 1.42e+04 / 93
p0 0.3982 ± 0.0002984
0.5
0.45
0.4
0.35
0.3

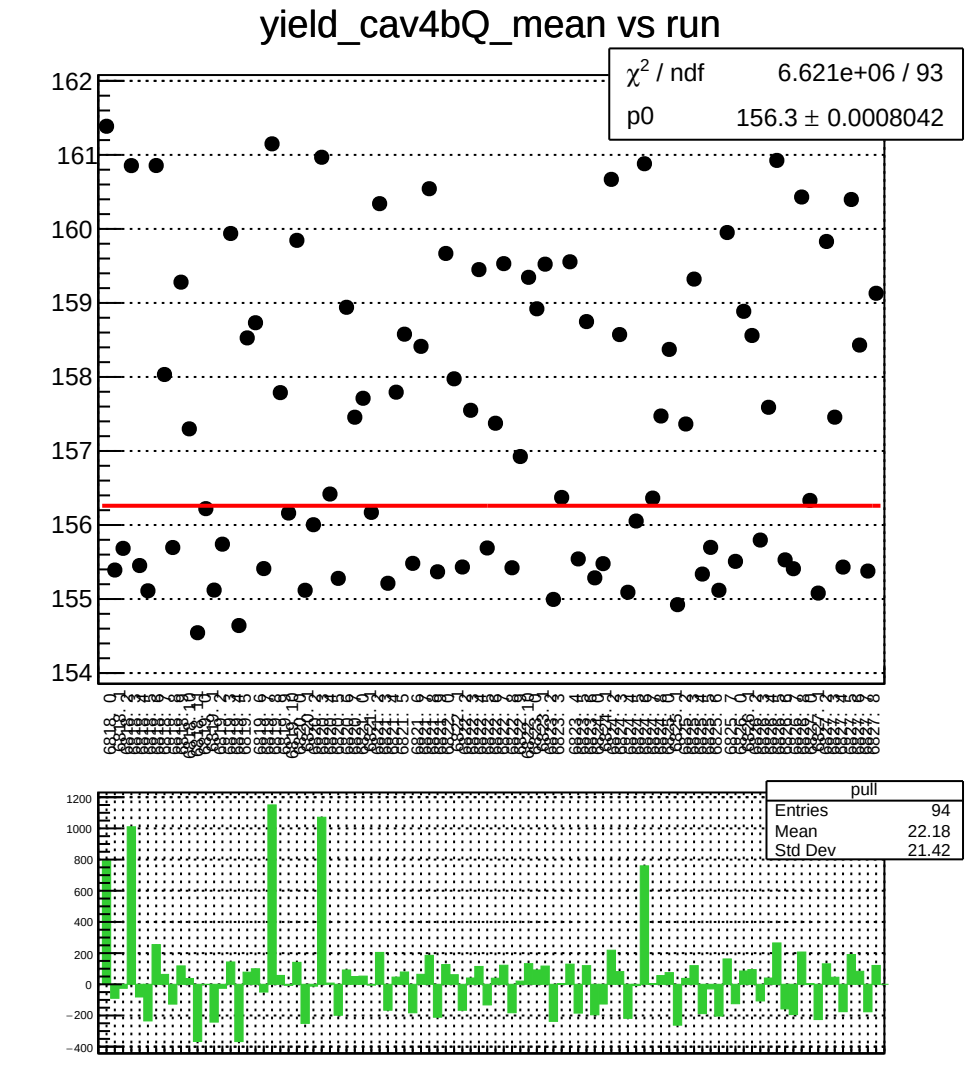

yield_bcm_dg_us_mean vs run
χ² / ndf 2.865e+05 / 93
p0 147.9 ± 0.0004215
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 94
Mean 561.4
Std Dev 0
150
100
50
0
−50
−100

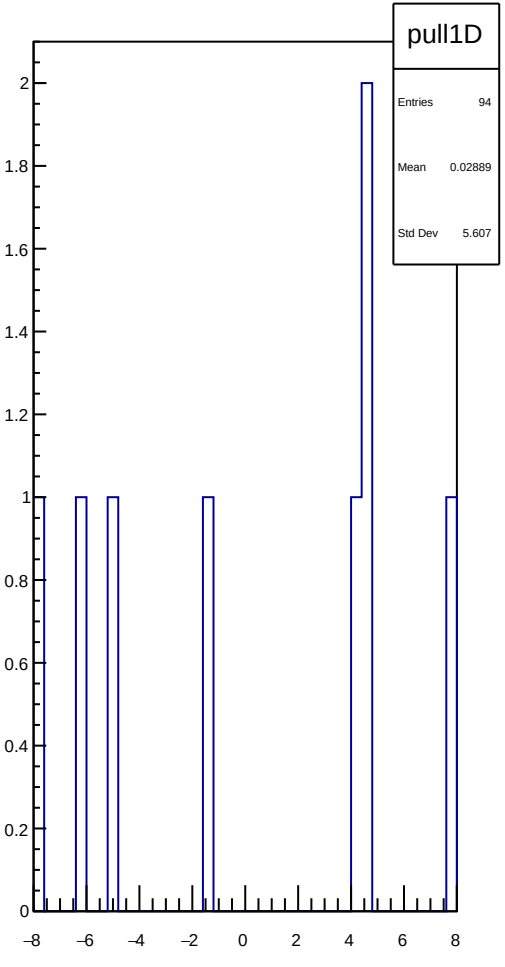

pull1D
Entries 94
Mean −0.3258
Std Dev 4.879
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

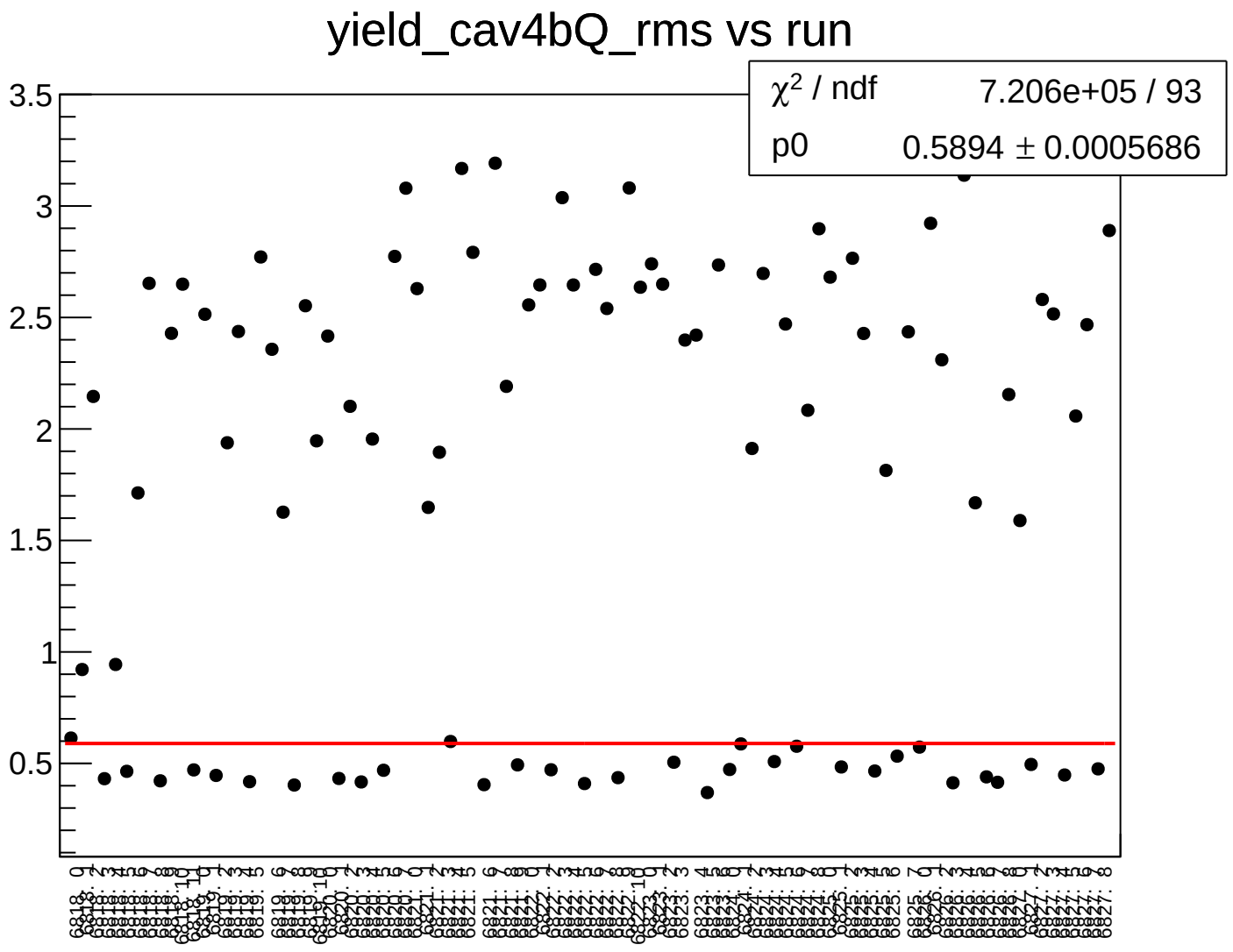

yield_bcm_dg_us_rms vs run
χ² / ndf 1.446e+04 / 93
p0 0.3977 ± 0.0002981
0.5
0.45
0.4
0.35
0.3

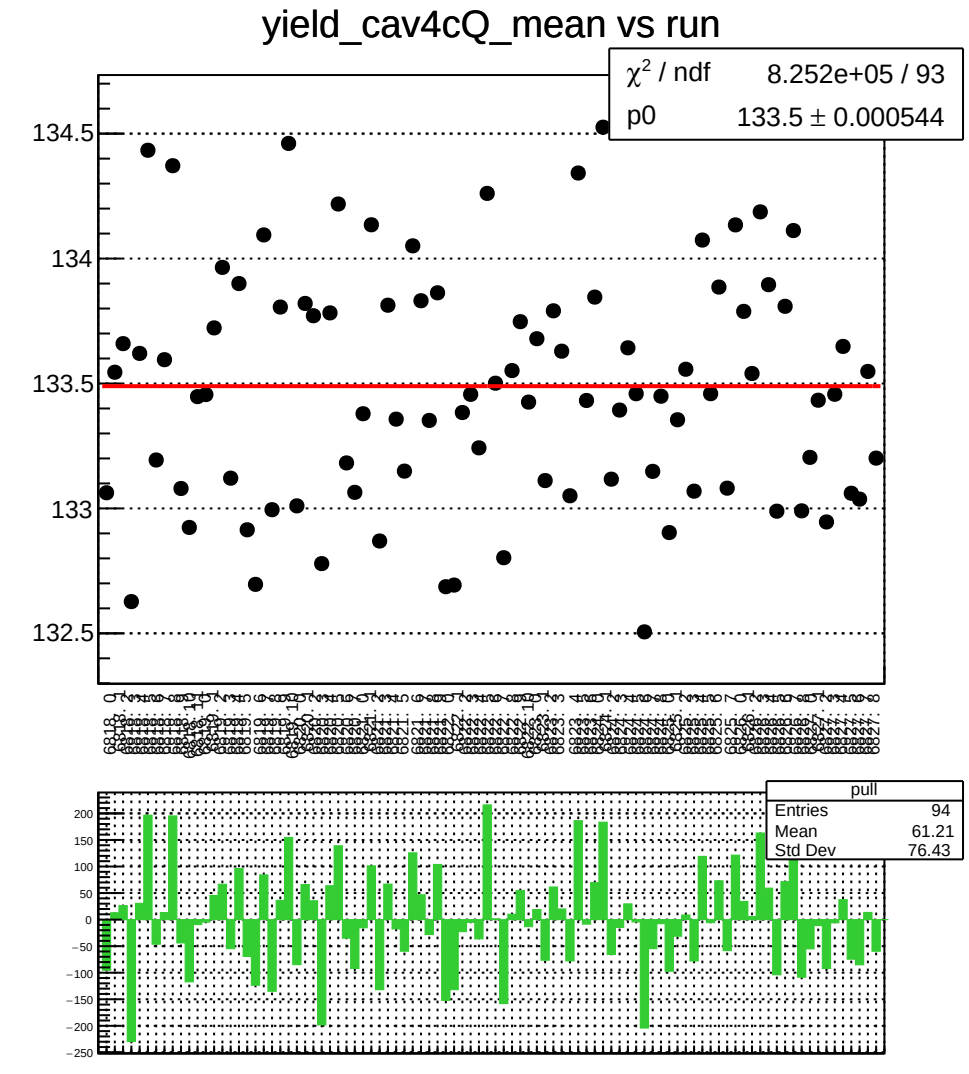

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.01e+05 / 93
p0 146.8 ± 0.0004216
147.4
147.2
147
146.8
146.6
146.4
146.2
pull
Entries 94
Mean 440.1
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 94
Mean 1.859
Std Dev 4.474
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

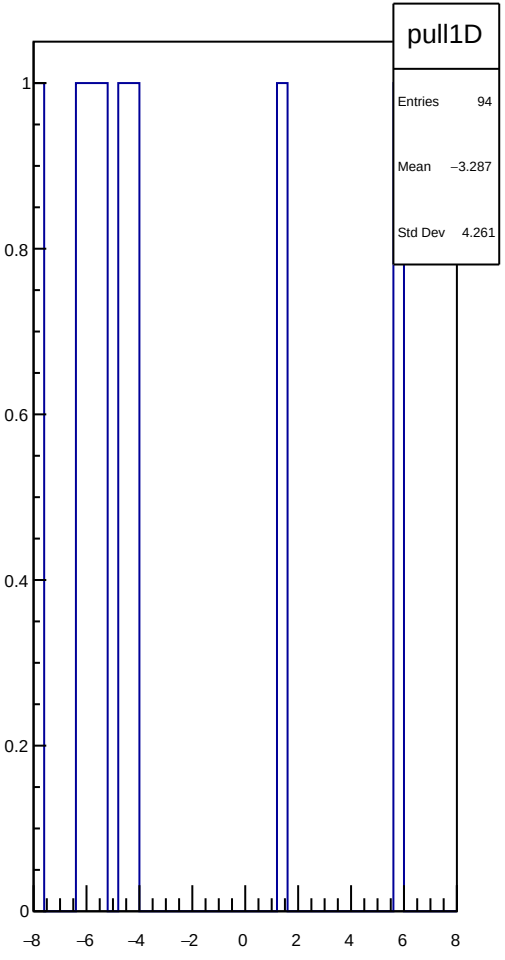

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.458e+04 / 93
p0 0.3978 ± 0.0002981
0.5
0.45
0.4
0.35
0.3

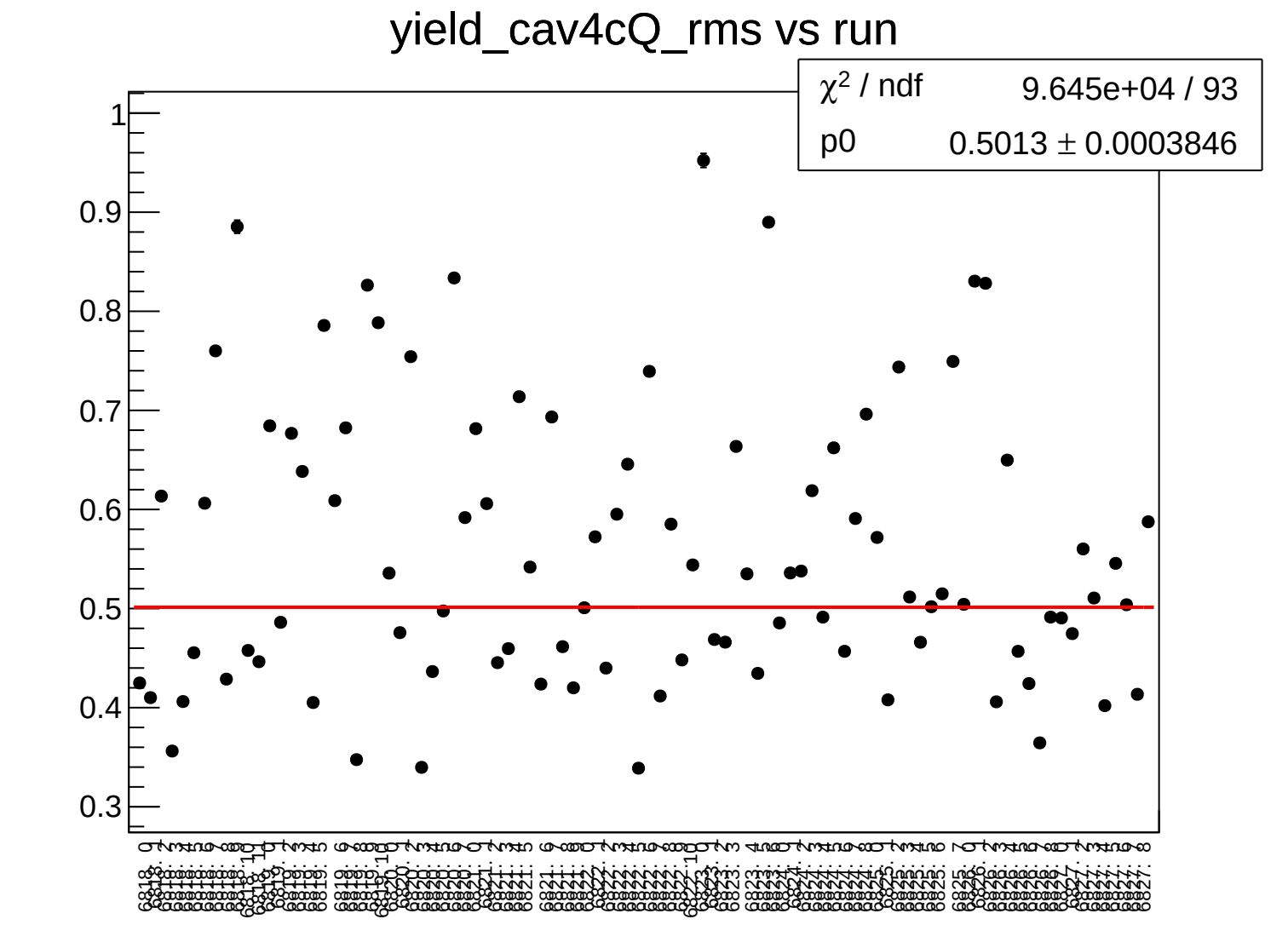

yield_cav4bQ_mean vs run
χ² / ndf 6.621e+06 / 93
p0 156.3 ± 0.0008042
pull
Entries 94
Mean 22.18
Std Dev 21.42

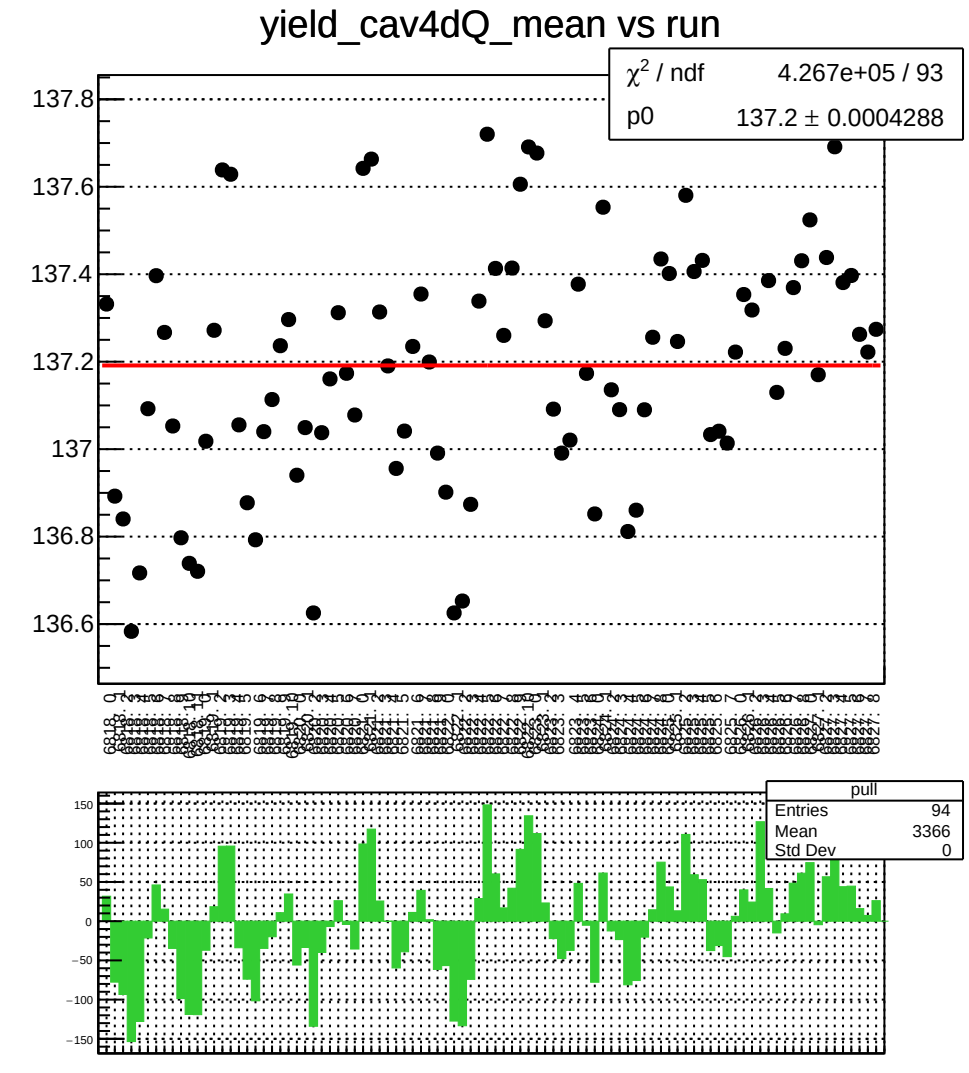

pull1D
Entries 94
Mean 0.02889
Std Dev 5.607

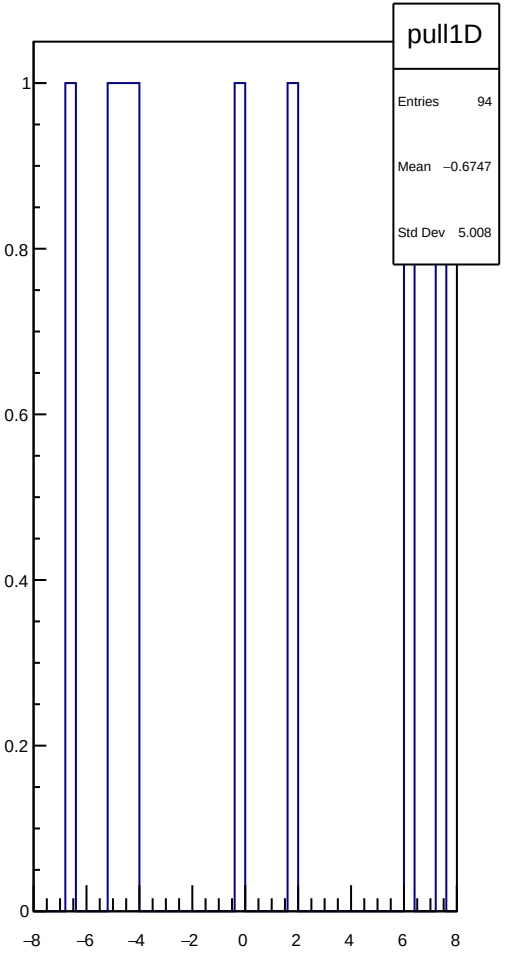

yield_cav4bQ_rms vs run
χ² / ndf 7.206e+05 / 93
p0 0.5894 ± 0.0005686
3.5
3
2.5
2
1.5
1
0.5

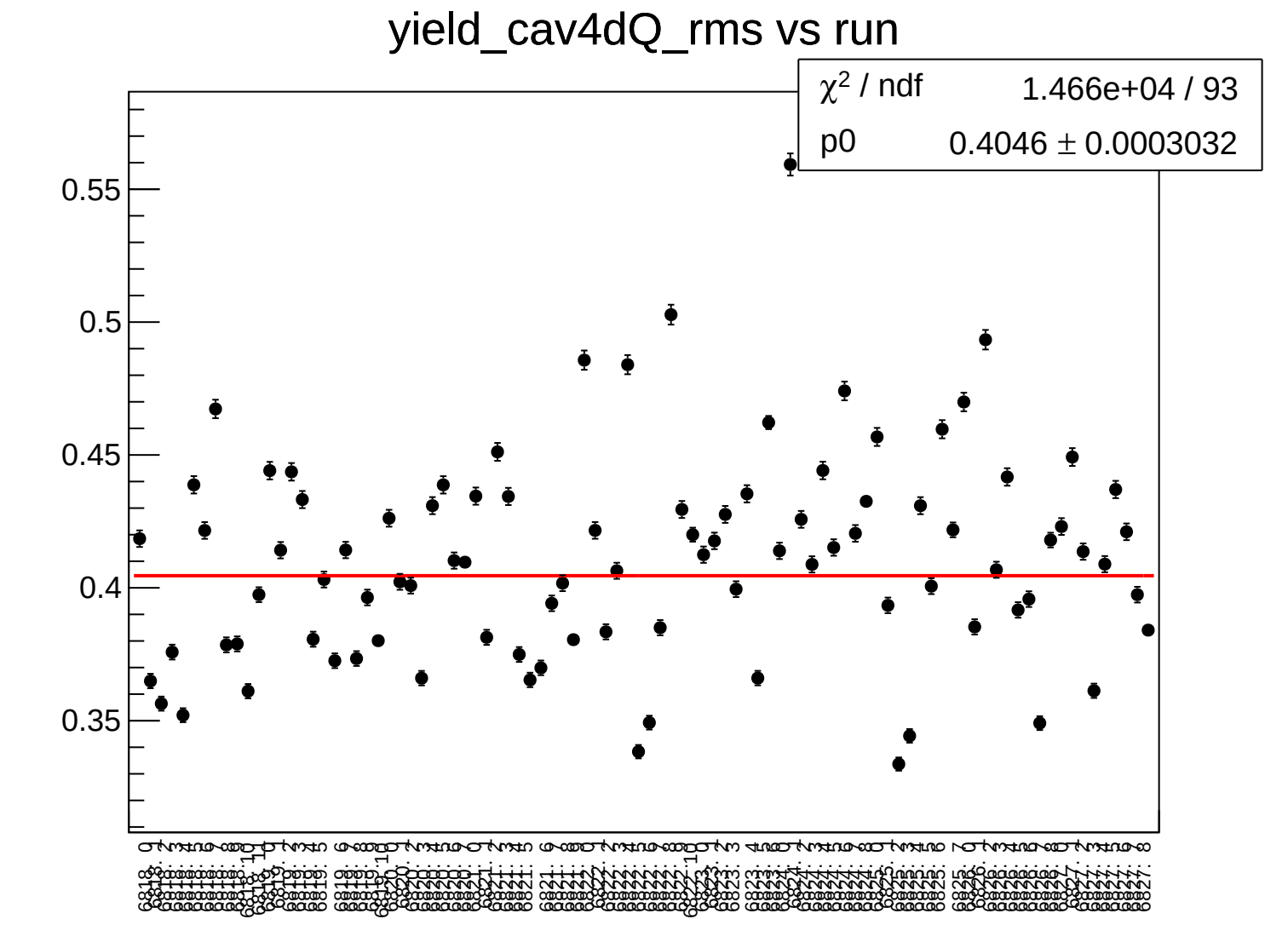

yield_cav4cQ_mean vs run
χ² / ndf 8.252e+05 / 93
p0 133.5 ± 0.000544
134.5
134
133.5
133
132.5
pull
Entries 94
Mean 61.21
Std Dev 76.43
200
150
100
50
0
−50
−100
−150
−200
−250

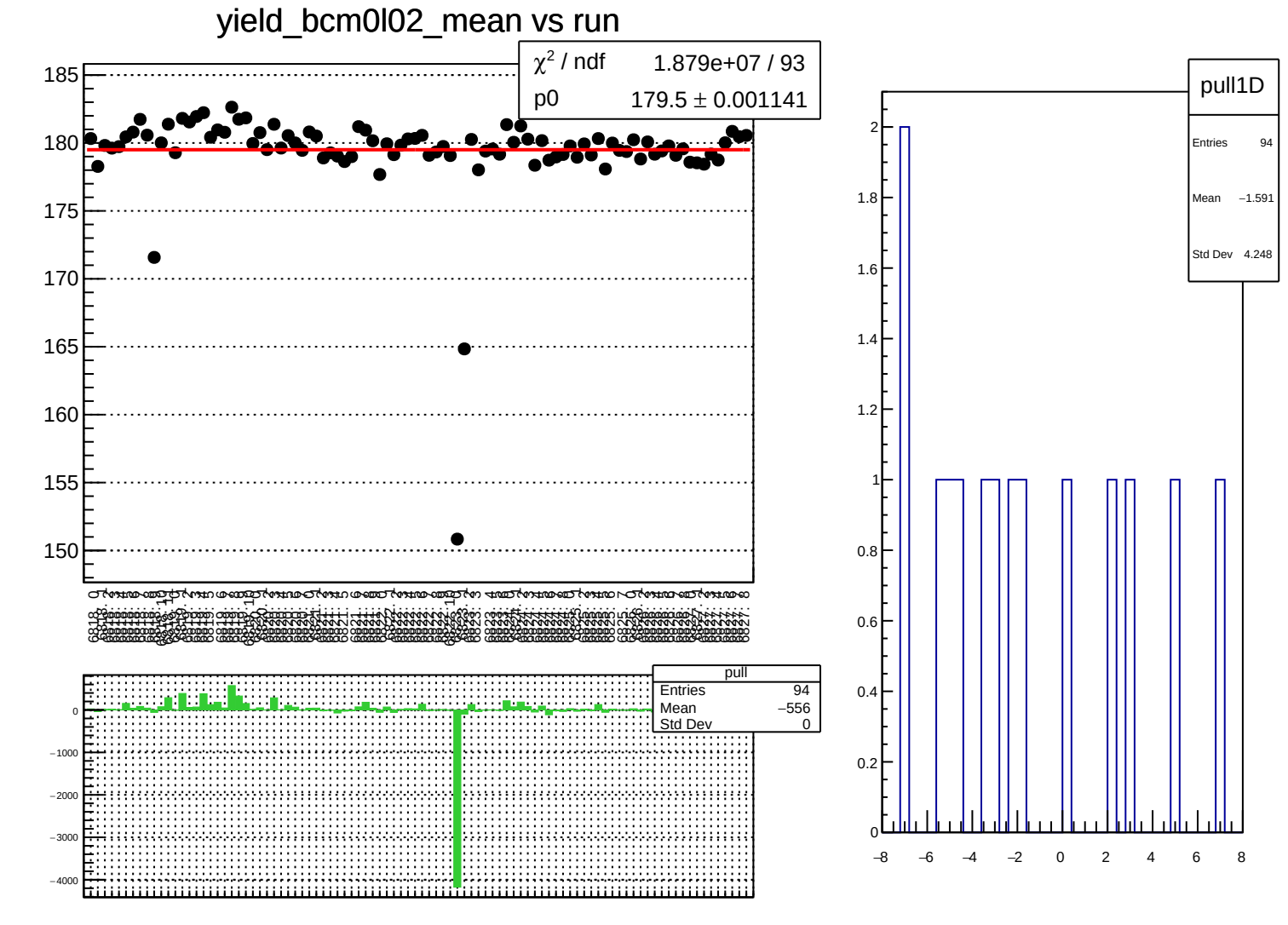

pull1D
Entries 94
Mean −3.287
Std Dev 4.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

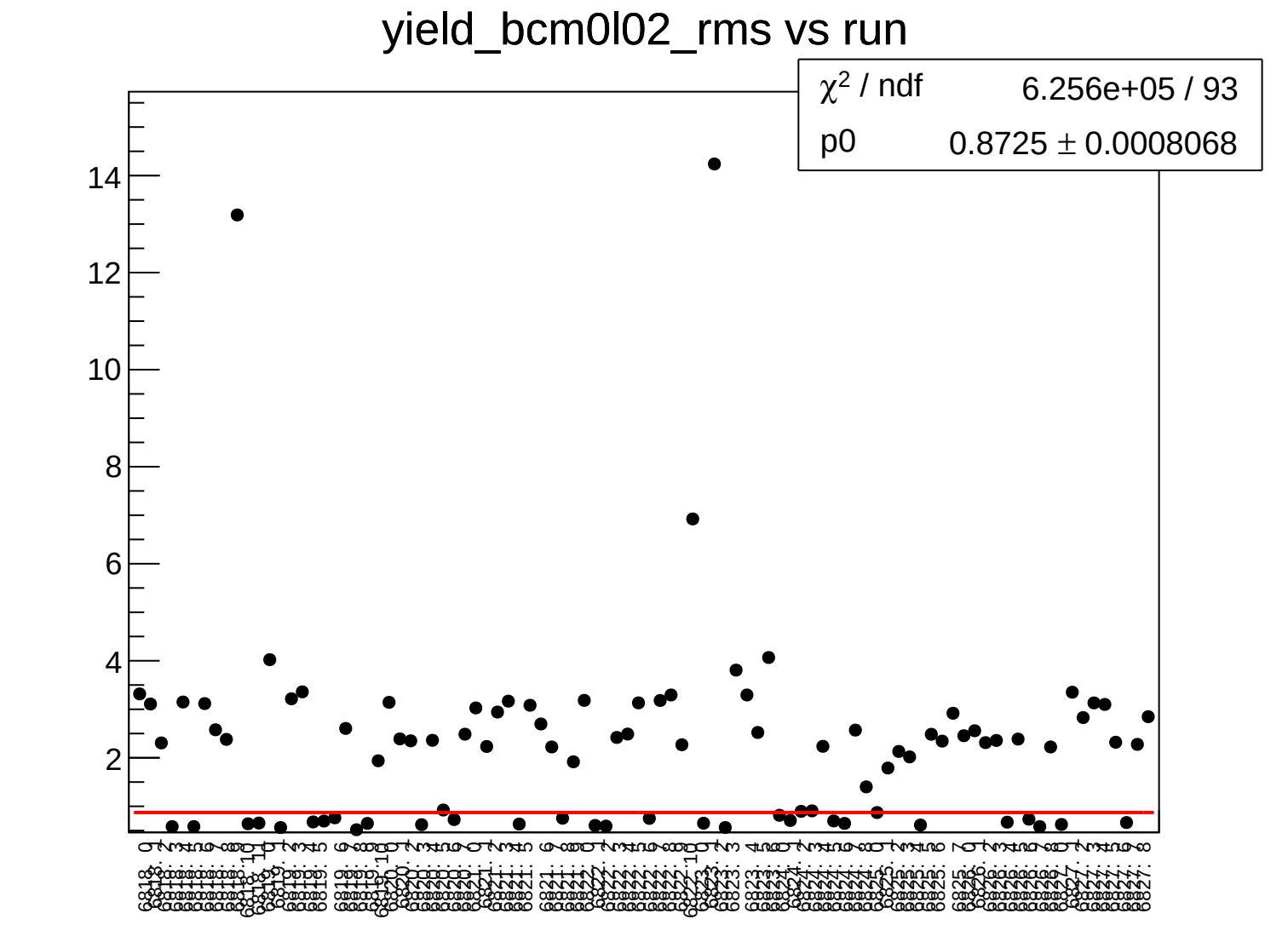

yield_cav4cQ_rms vs run
χ² / ndf 9.645e+04 / 93
p0 0.5013 ± 0.0003846
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

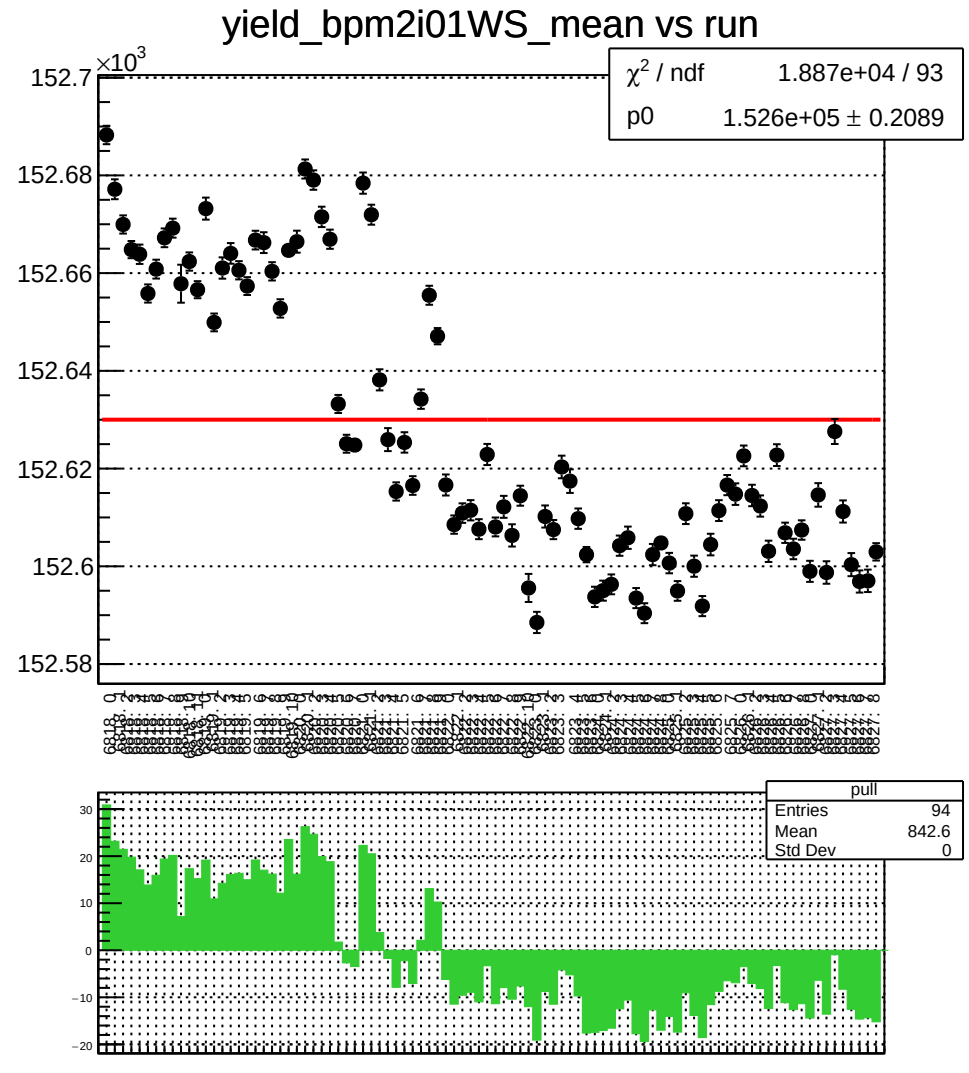

yield_cav4dQ_mean vs run
χ² / ndf 4.267e+05 / 93
p0 137.2 ± 0.0004288
137.8
137.6
137.4
137.2
137
136.8
136.6
pull
Entries 94
Mean 3366
Std Dev 0
150
100
50
0
−50
−100
−150

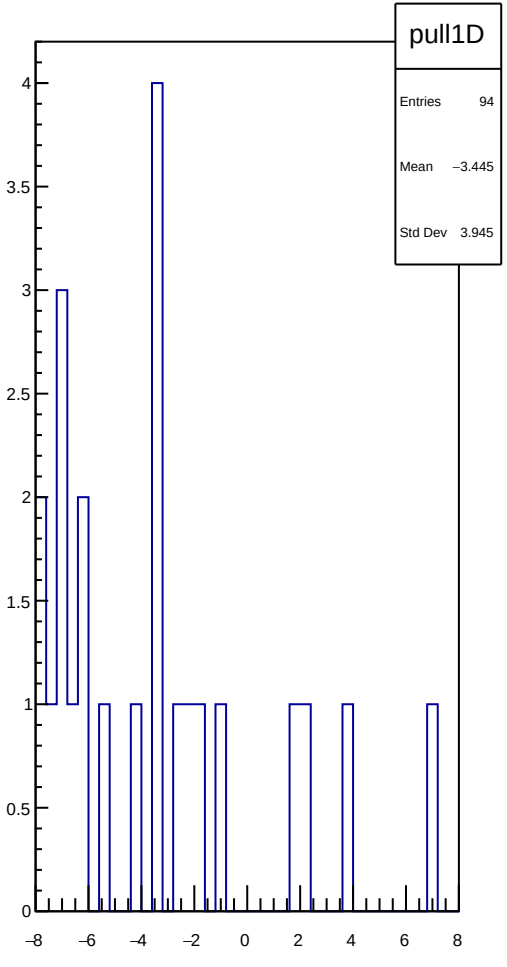

pull1D
Entries 94
Mean −0.6747
Std Dev 5.008
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

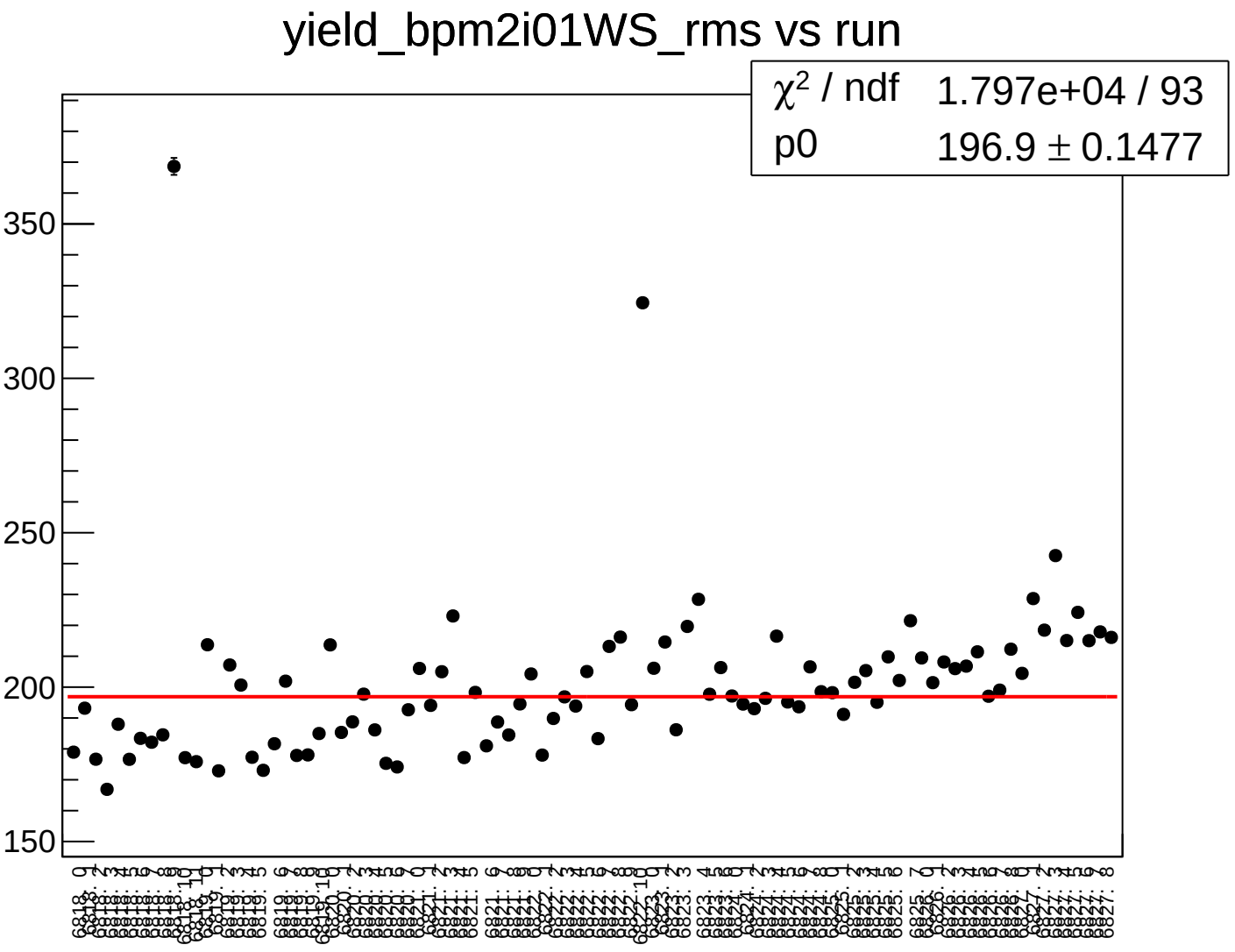

yield_cav4dQ_rms vs run
χ² / ndf 1.466e+04 / 93
p0 0.4046 ± 0.0003032
0.55
0.5
0.45
0.4
0.35

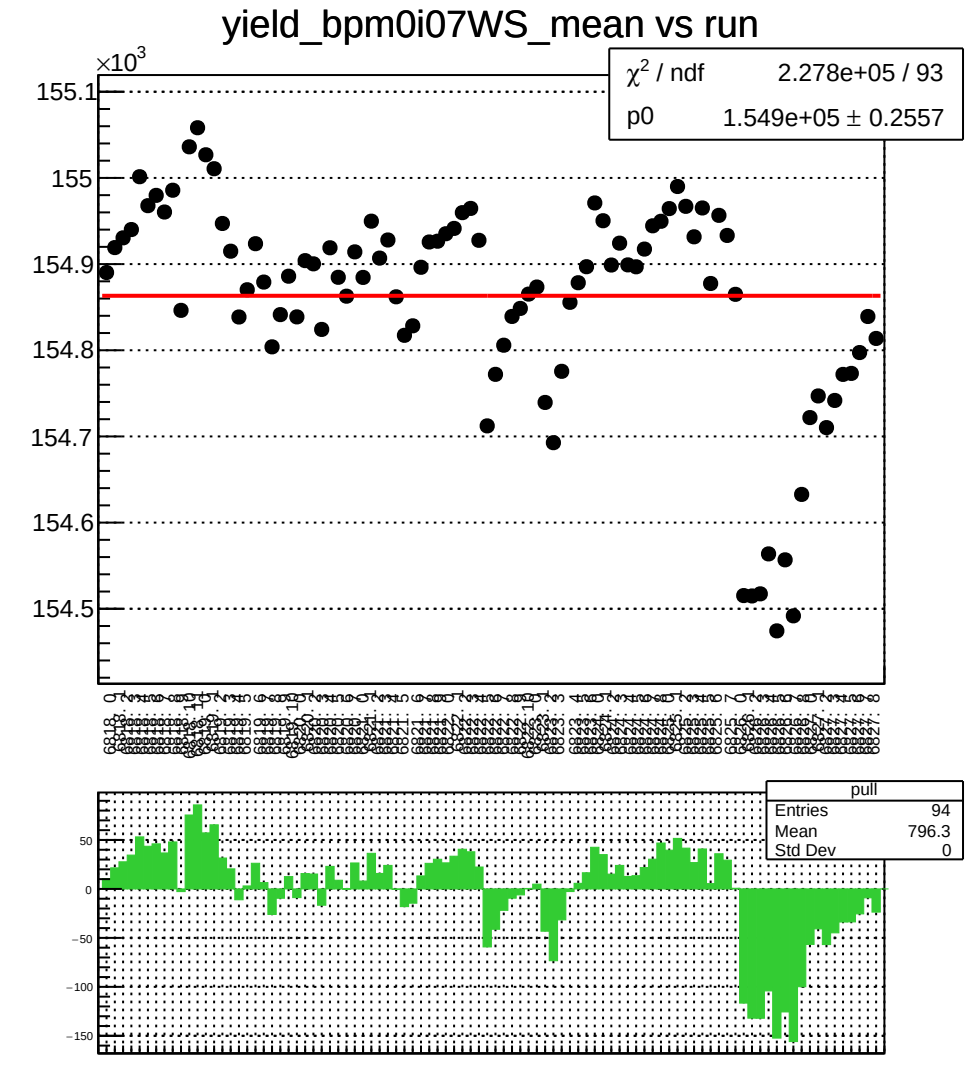

yield_bcm0l02_mean vs run
χ² / ndf 1.879e+07 / 93
p0 179.5 ± 0.001141
185
180
175
170
165
160
155
150
pull
Entries 94
Mean −556
Std Dev 0
0
−1000
−2000
−3000
−4000
pull1D
Entries 94
Mean −1.591
Std Dev 4.248
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

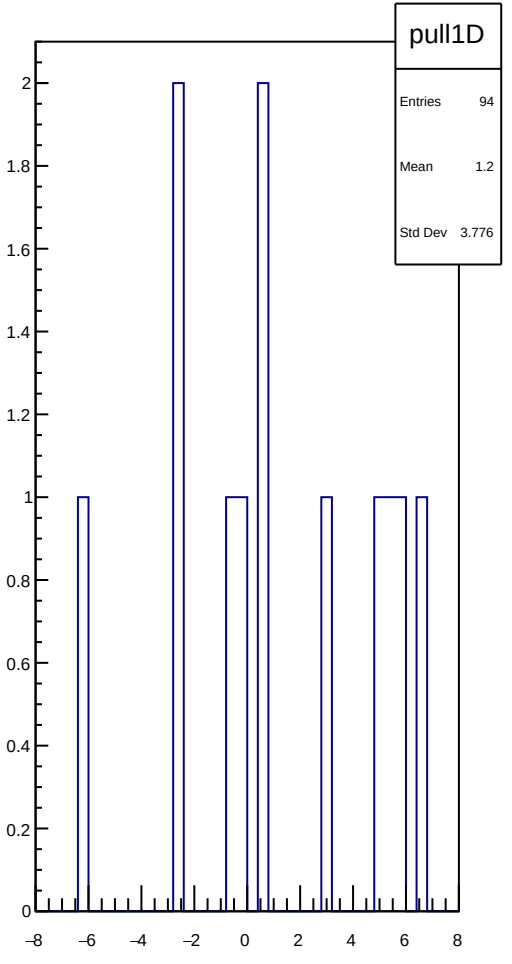

yield_bcm0l02_rms vs run
χ² / ndf 6.256e+05 / 93
p0 0.8725 ± 0.0008068
14
12
10
8
6
4
2

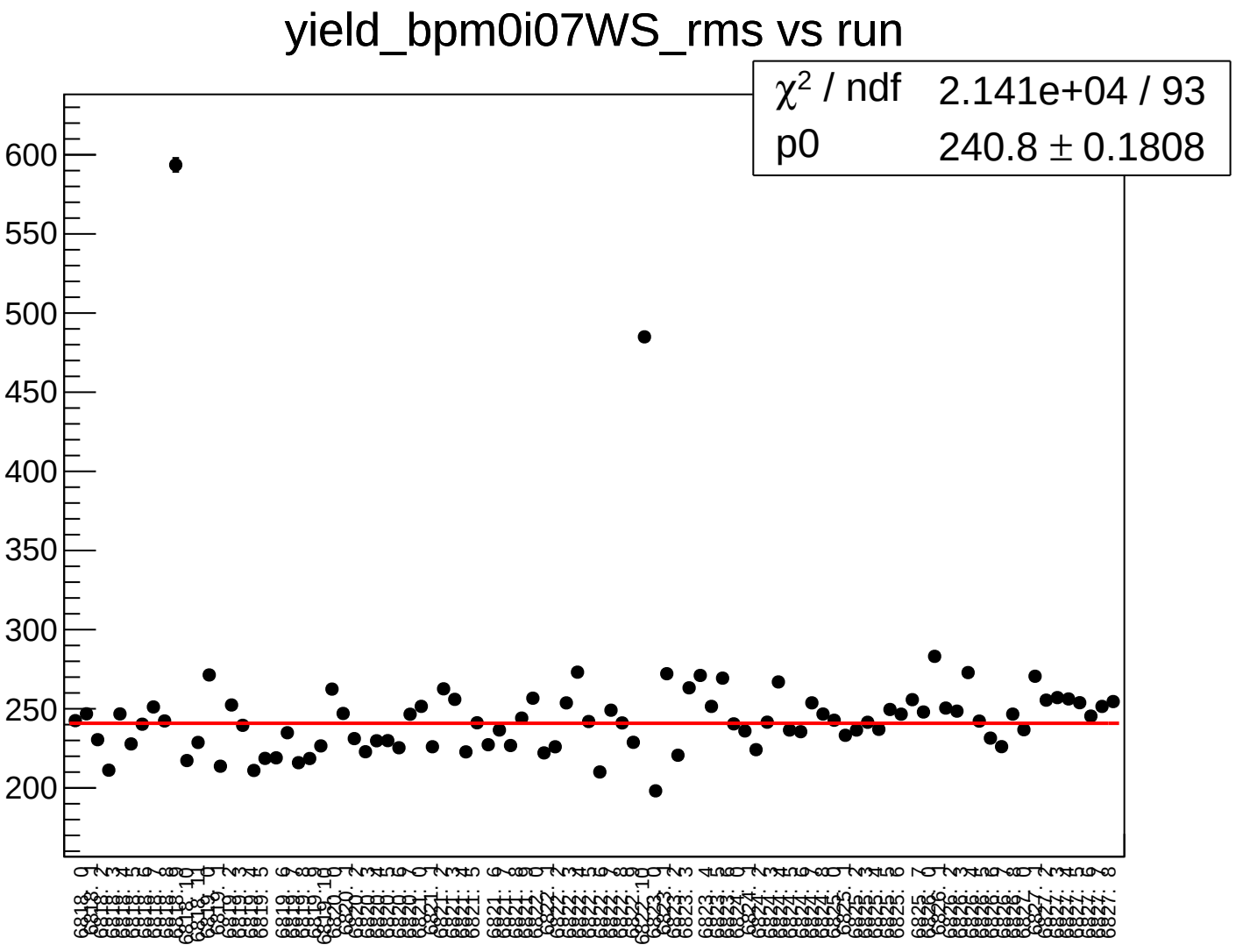

yield_bpm2i01WS_mean vs run
×10^3
152.7
152.68
152.66
152.64
152.62
152.6
152.58
χ² / ndf 1.887e+04 / 93
p0 1.526e+05 ± 0.2089
pull
Entries 94
Mean 842.6
Std Dev 0
30
20
10
0
−10
−20

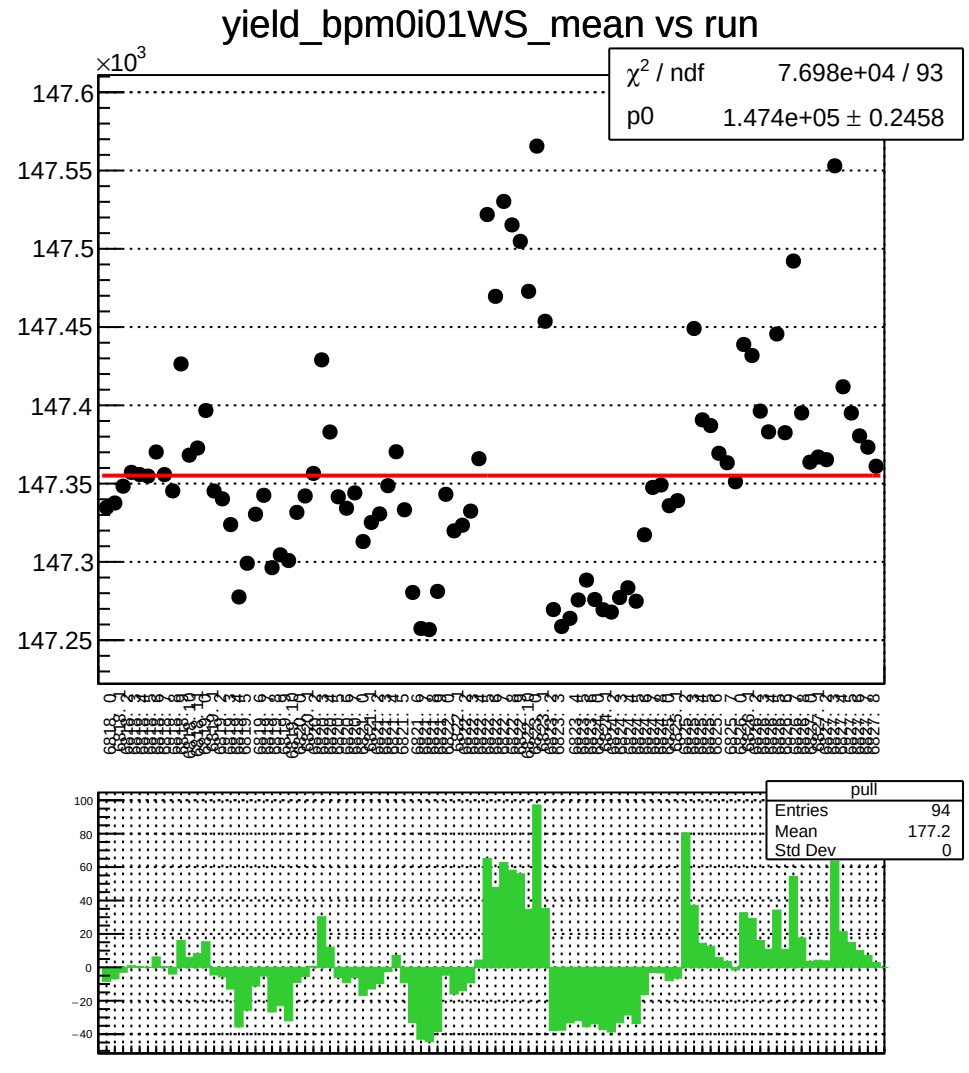

pull1D
Entries 94
Mean −3.445
Std Dev 3.945
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

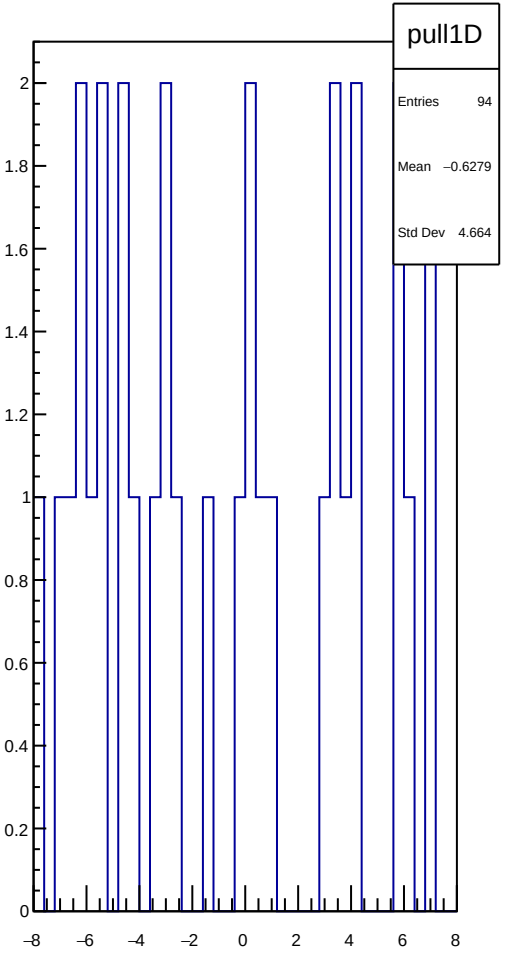

yield_bpm2i01WS_rms vs run
χ² / ndf 1.797e+04 / 93
p0 196.9 ± 0.1477
350
300
250
200
150

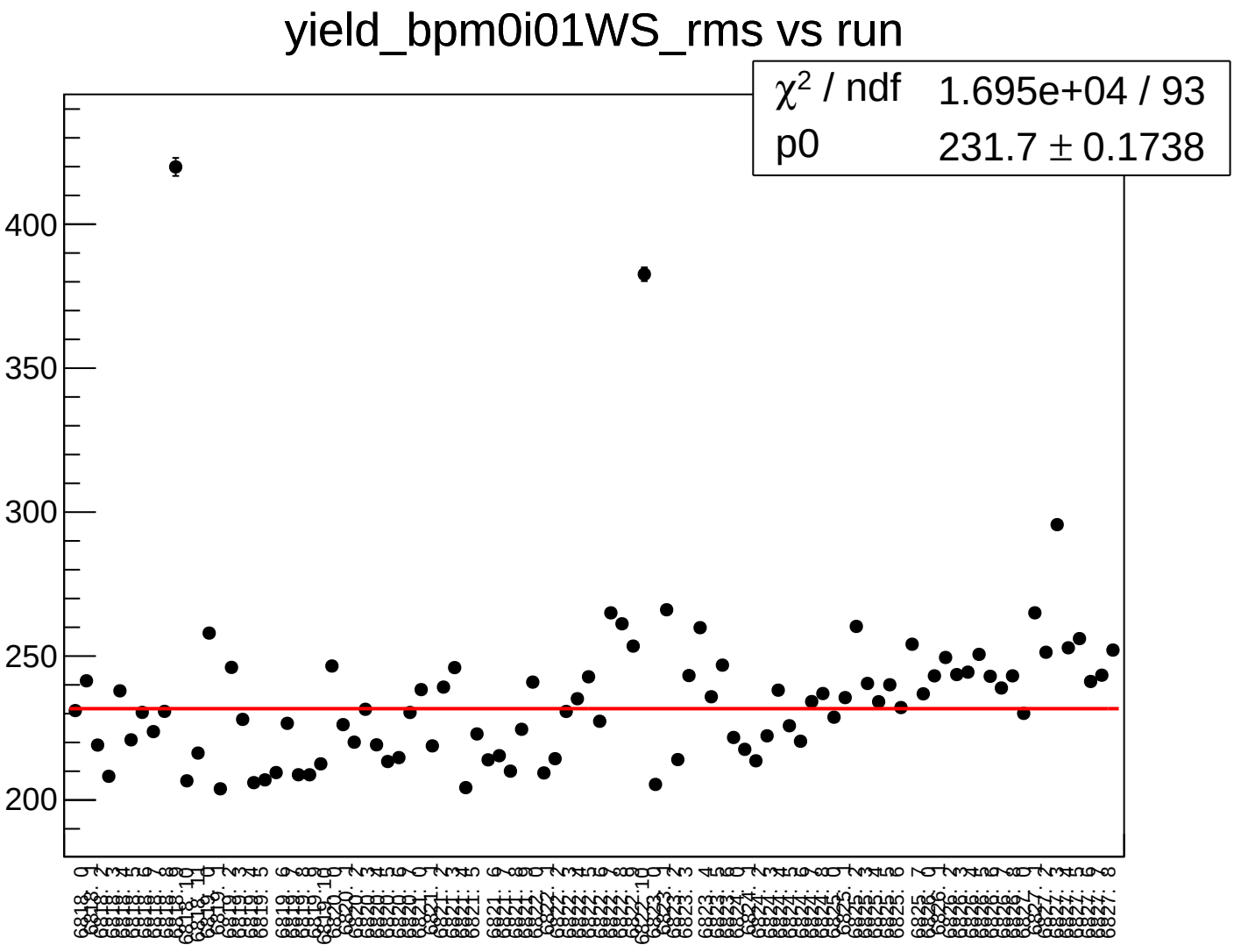

yield_bpm0i07WS_mean vs run
×10^3
155.1
155
154.9
154.8
154.7
154.6
154.5
χ² / ndf 2.278e+05 / 93
p0 1.549e+05 ± 0.2557
pull
Entries 94
Mean 796.3
Std Dev 0
50
0
−50
−100
−150

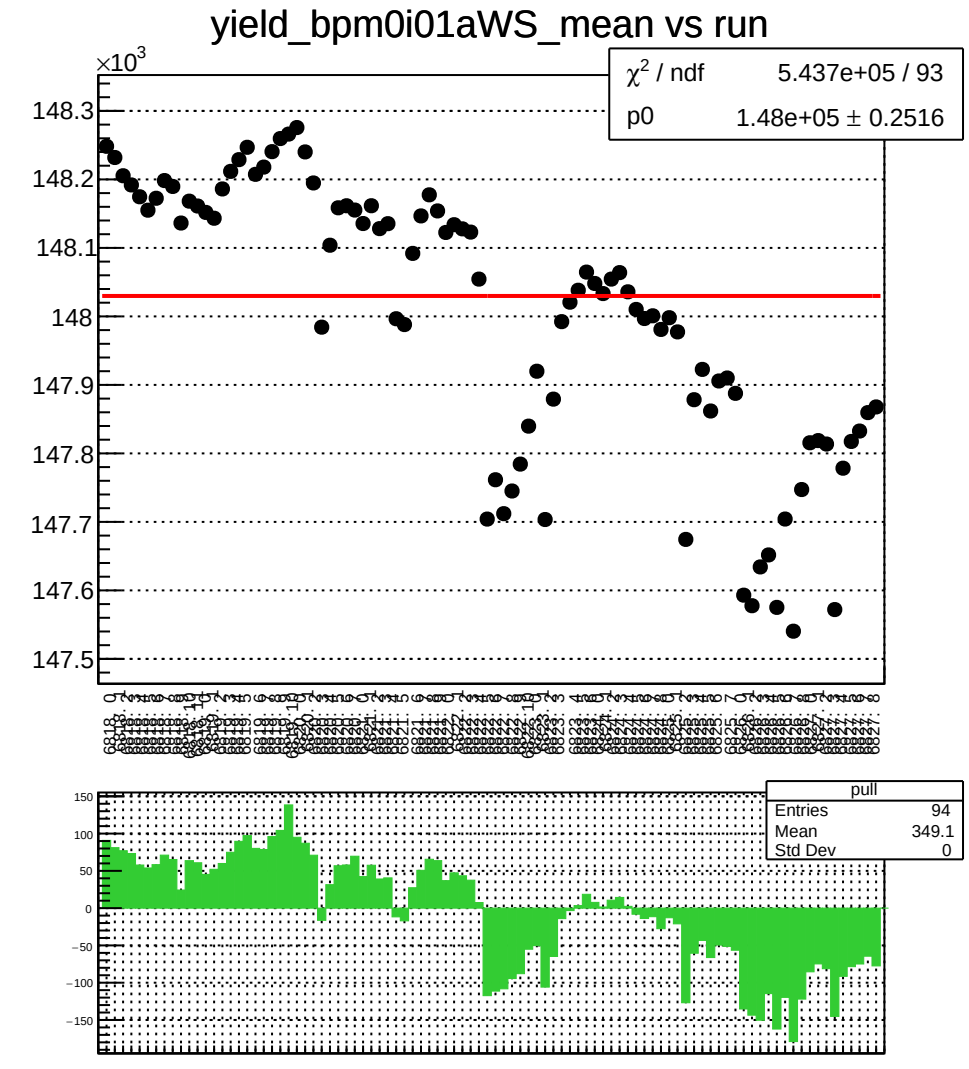

pull1D
Entries 94
Mean 1.2
Std Dev 3.776
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

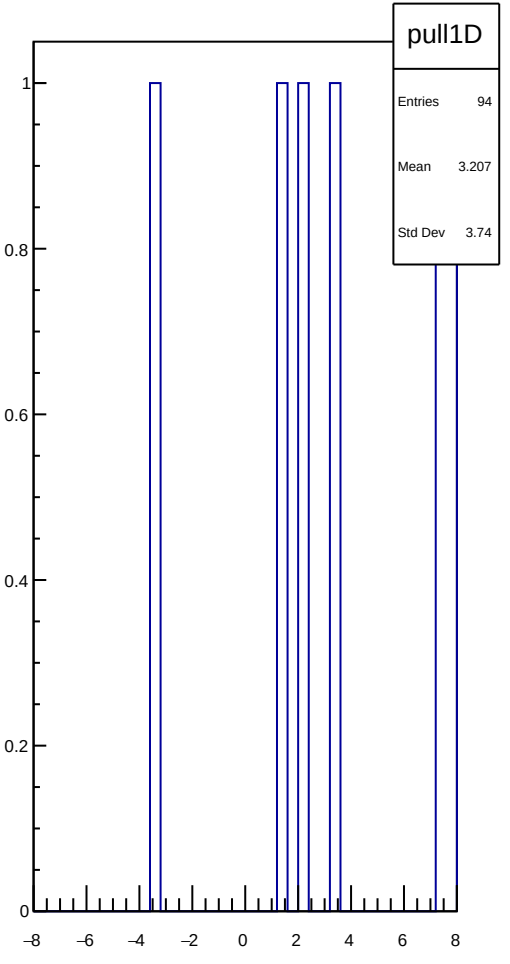

yield_bpm0i07WS_rms vs run
χ² / ndf 2.141e+04 / 93
p0 240.8 ± 0.1808
600
550
500
450
400
350
300
250
200

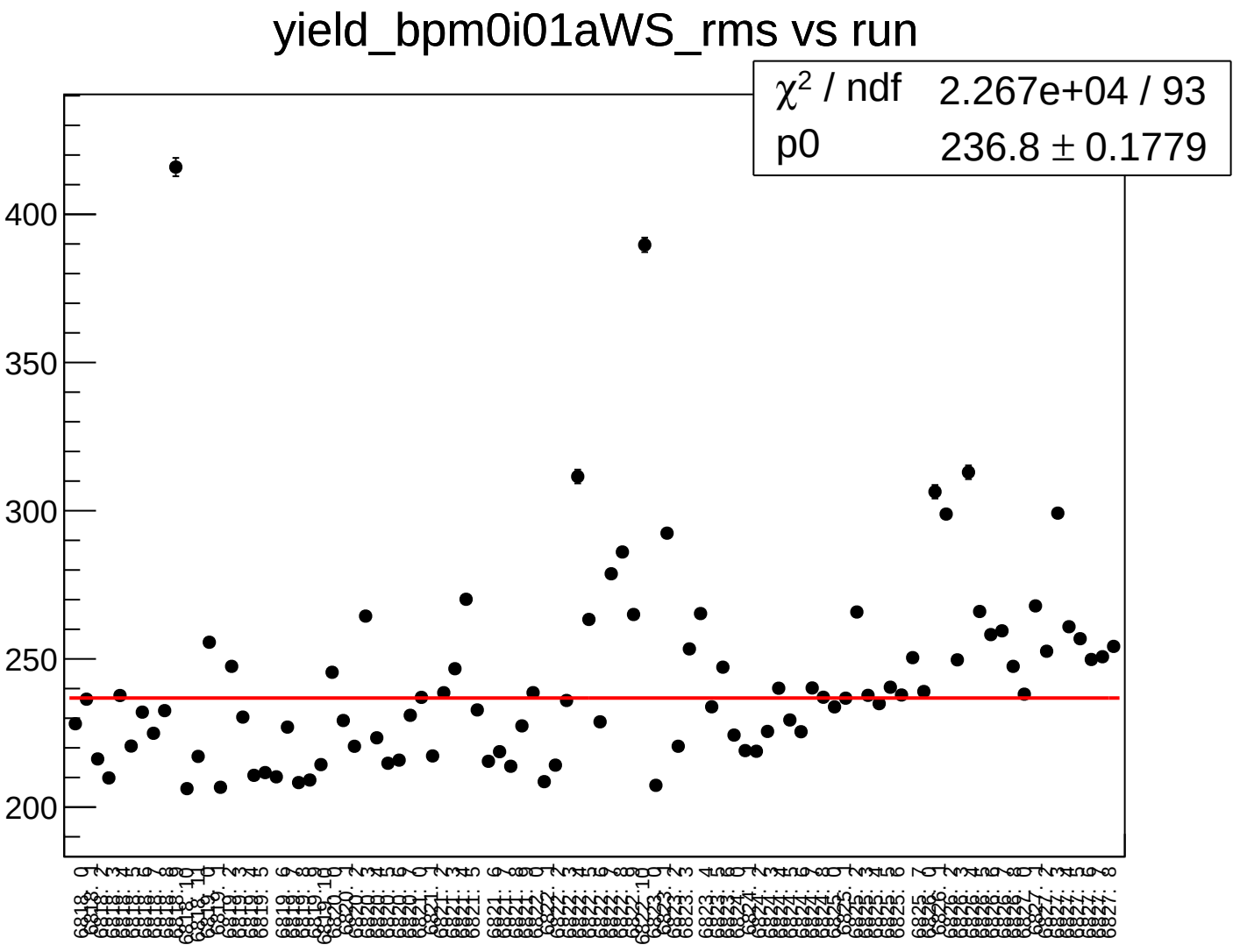

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 7.698e+04 / 93
p0 1.474e+05 ± 0.2458
147.6
147.55
147.5
147.45
147.4
147.35
147.3
147.25
pull
Entries 94
Mean 177.2
Std Dev 0
100
80
60
40
20
0
−20
−40

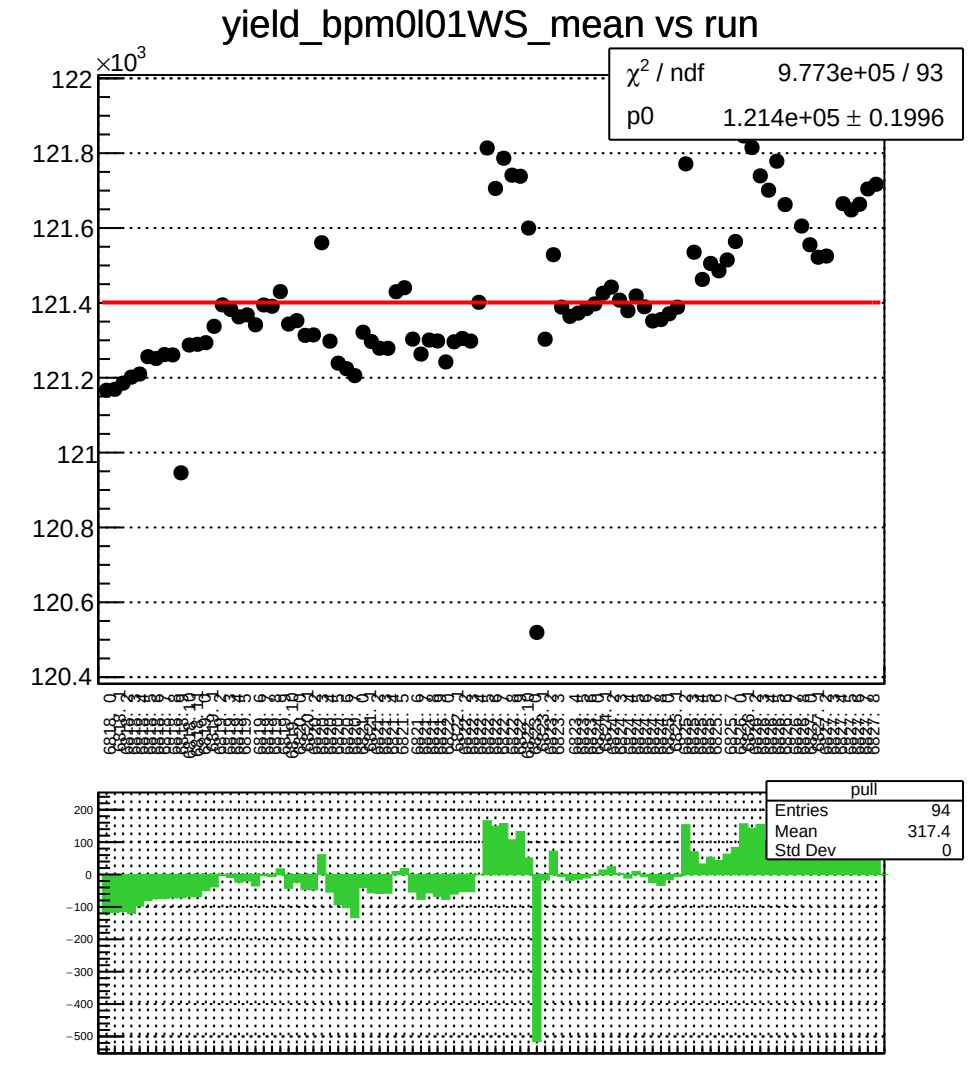

pull1D
Entries 94
Mean −0.6279
Std Dev 4.664
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

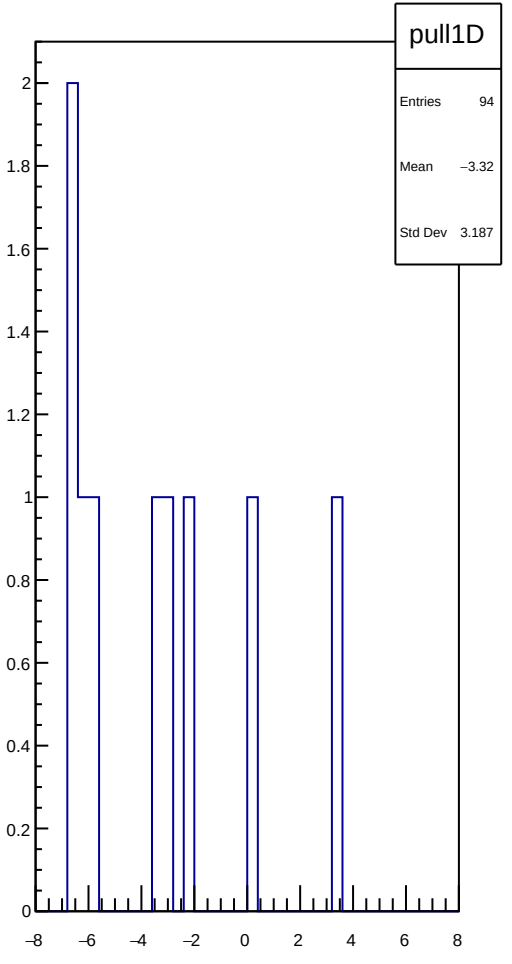

yield_bpm0i01WS_rms vs run
χ² / ndf 1.695e+04 / 93
p0 231.7 ± 0.1738
400
350
300
250
200

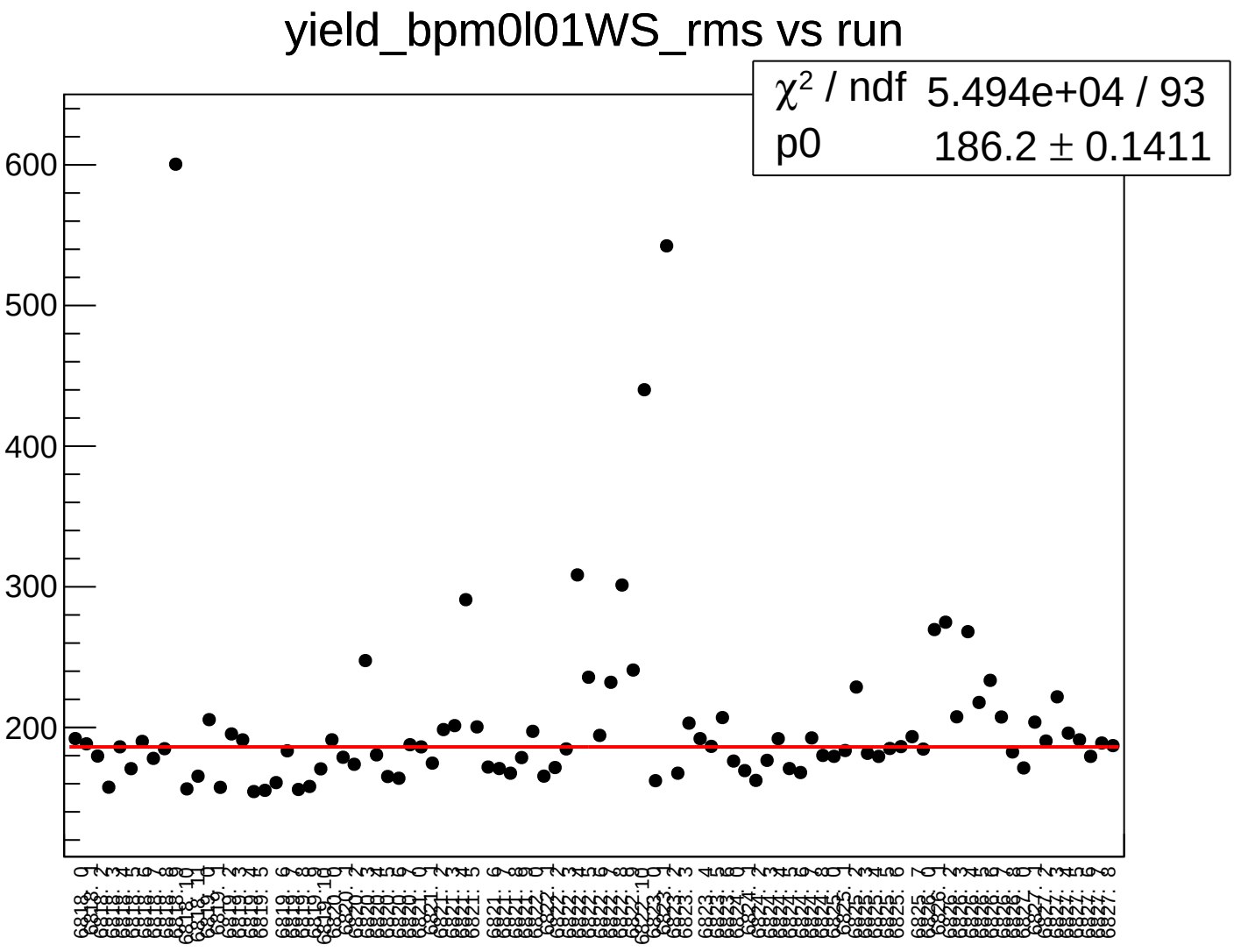

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.437e+05 / 93
p0 1.48e+05 ± 0.2516
148.3
148.2
148.1
148
147.9
147.8
147.7
147.6
147.5
pull
Entries 94
Mean 349.1
Std Dev 0
150
100
50
0
−50
−100
−150

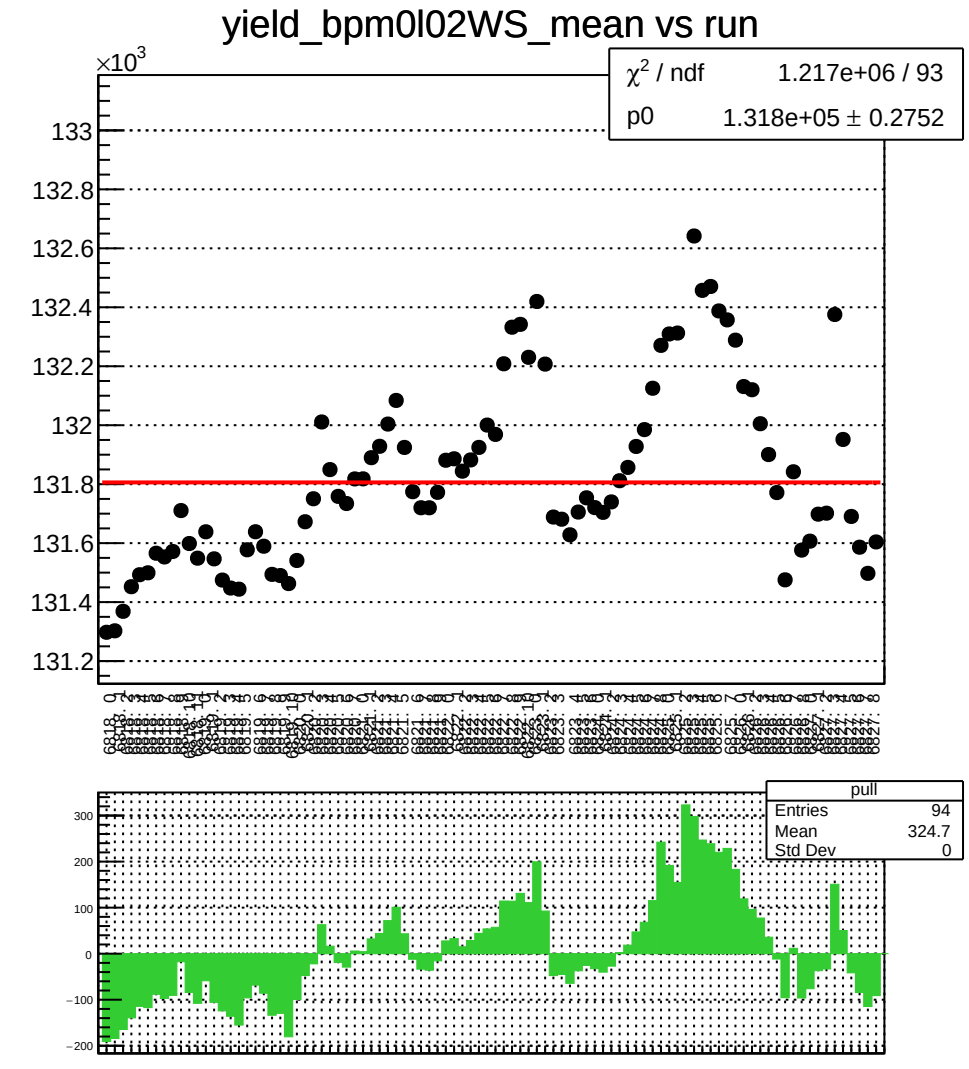

pull1D
Entries 94
Mean 3.207
Std Dev 3.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

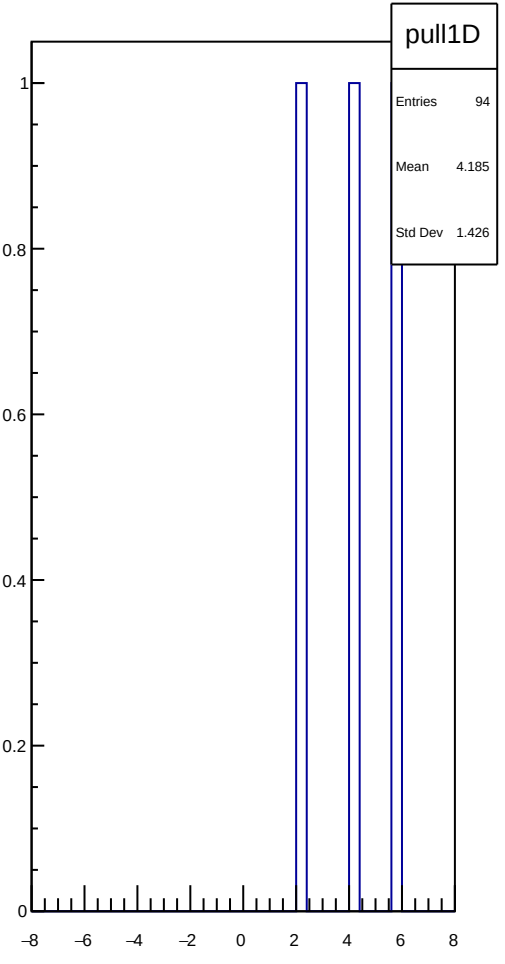

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.267e+04 / 93
p0 236.8 ± 0.1779
400
350
300
250
200

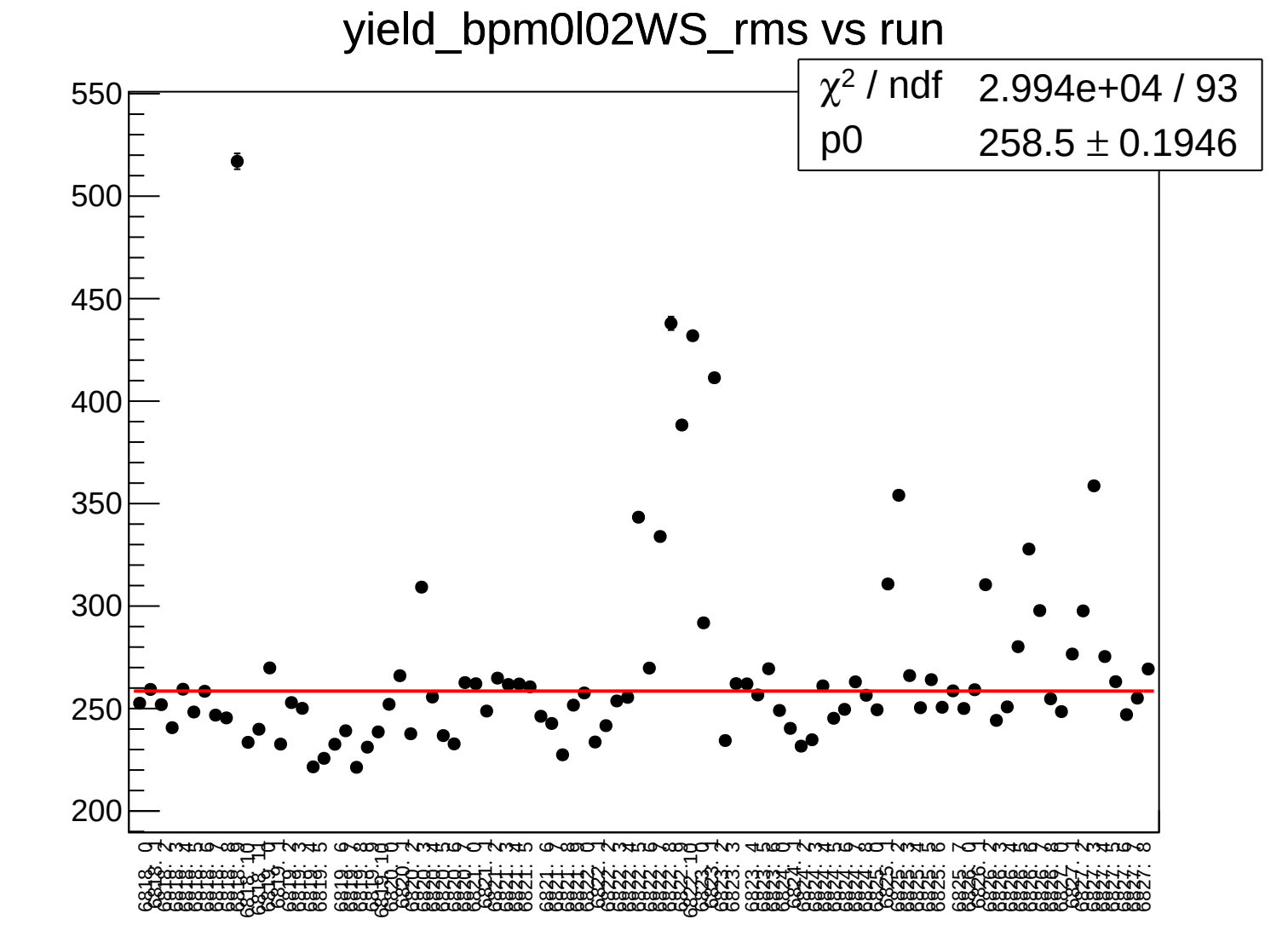

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.773e+05 / 93
p0 1.214e+05 ± 0.1996
122
121.8
121.6
121.4
121.2
121
120.8
120.6
120.4
pull
Entries 94
Mean 317.4
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

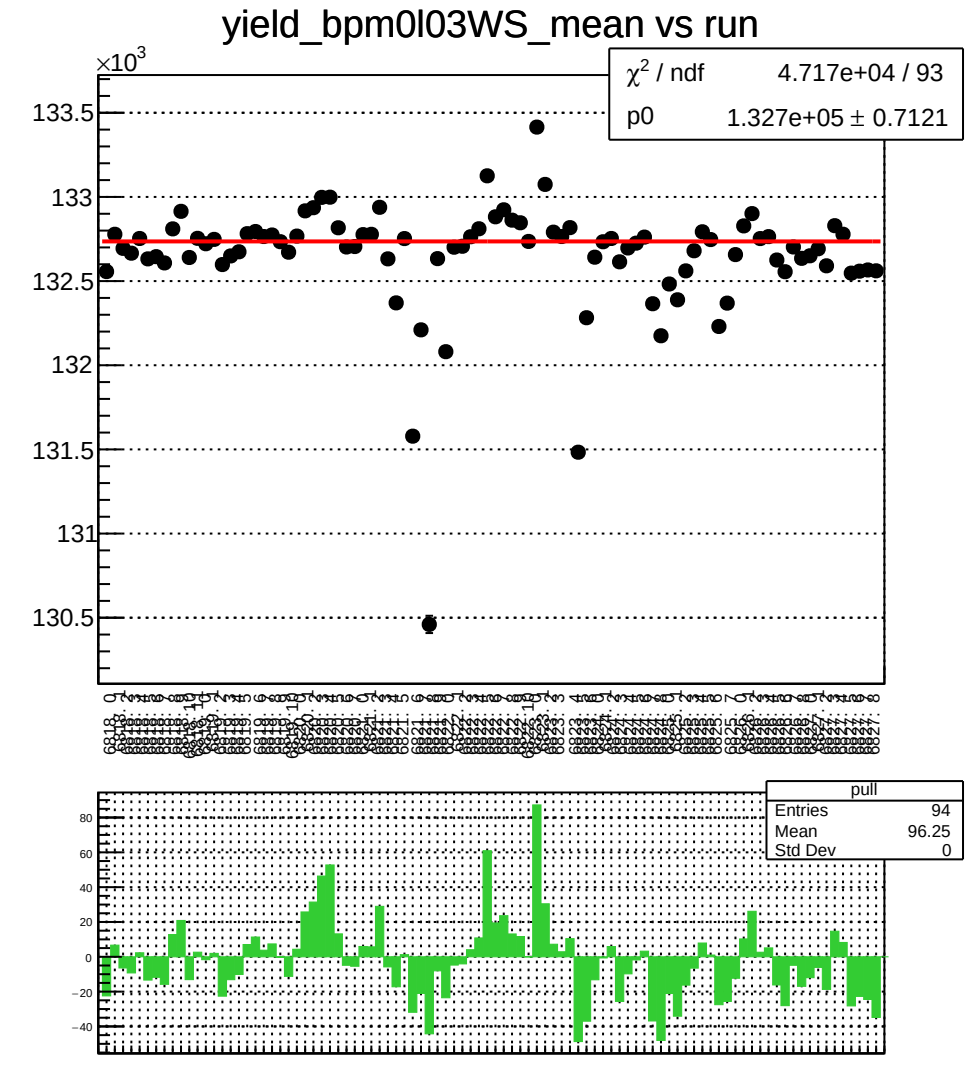

pull1D
Entries 94
Mean −3.32
Std Dev 3.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

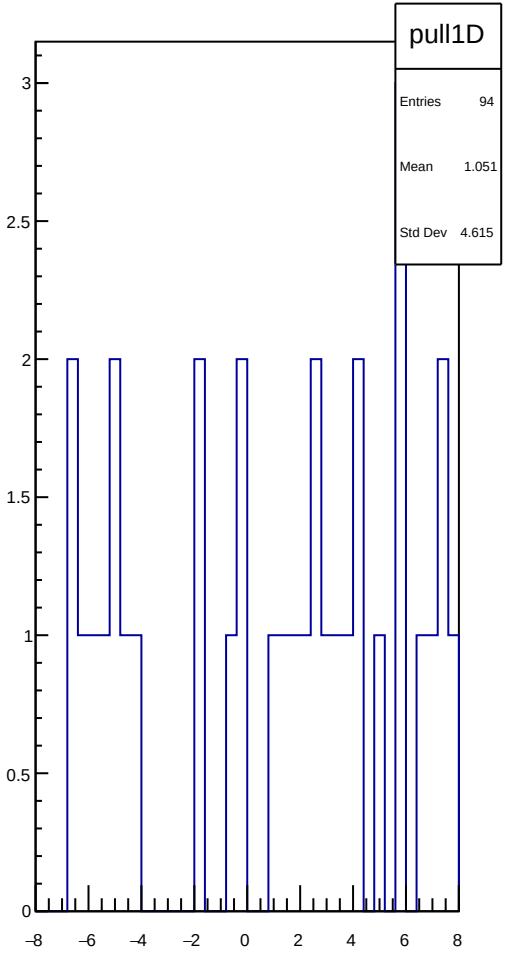

yield_bpm0l01WS_rms vs run
χ² / ndf 5.494e+04 / 93
p0 186.2 ± 0.1411
600
500
400
300
200

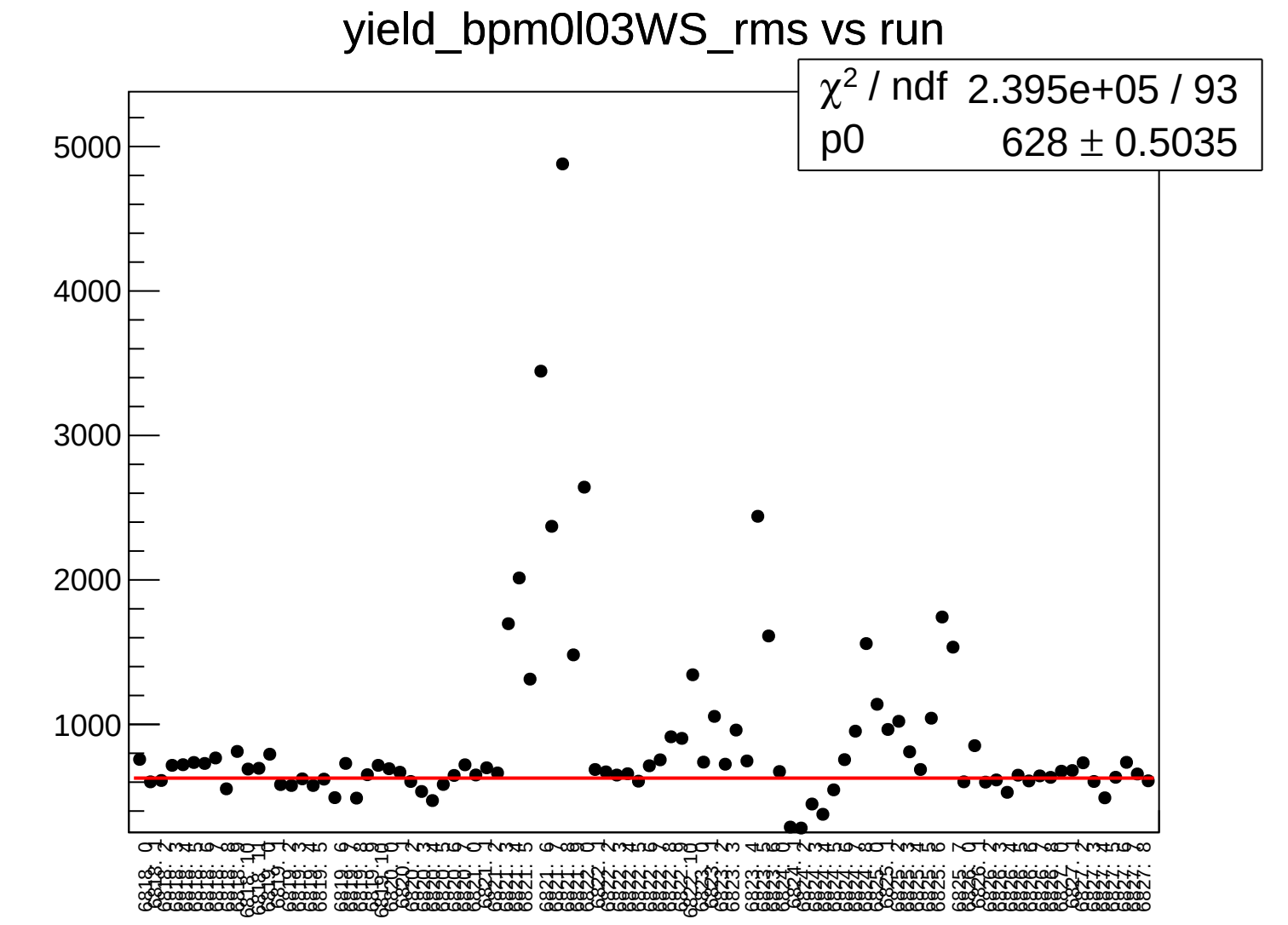

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.217e+06 / 93
p0 1.318e+05 ± 0.2752
133
132.8
132.6
132.4
132.2
132
131.8
131.6
131.4
131.2
pull
Entries 94
Mean 324.7
Std Dev 0
300
200
100
0
−100
−200

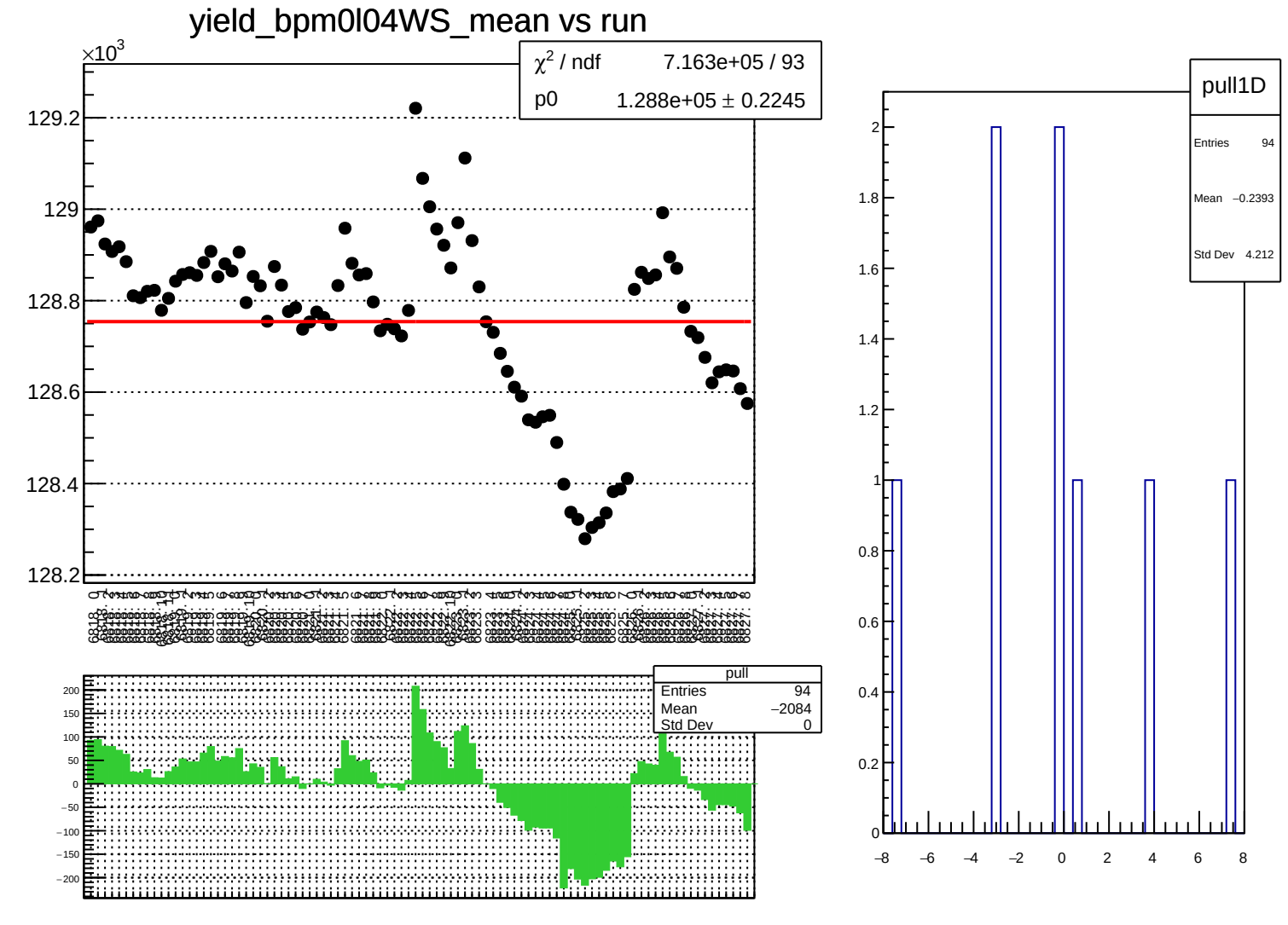

pull1D
Entries 94
Mean 4.185
Std Dev 1.426
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

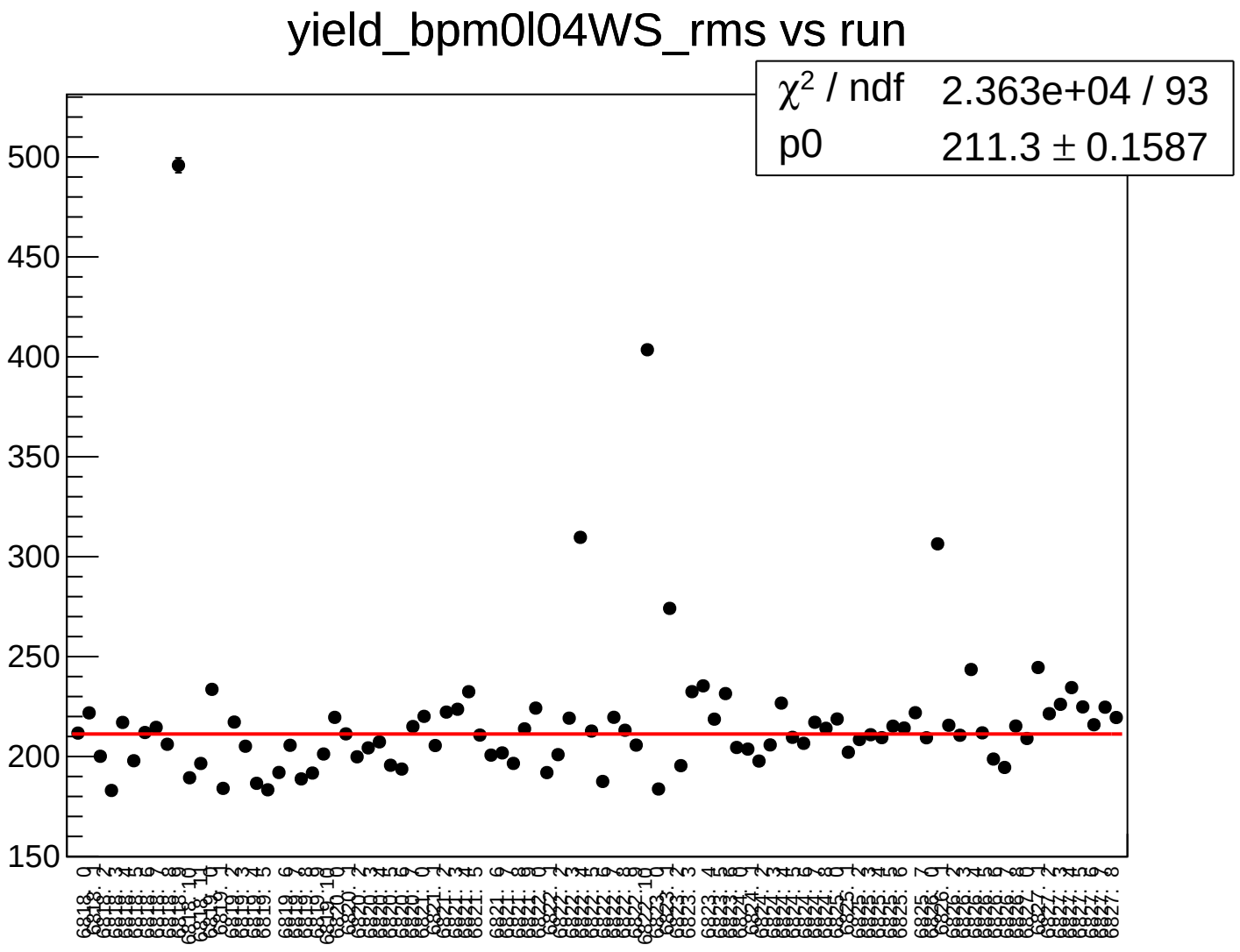

yield_bpm0l02WS_rms vs run
χ² / ndf 2.994e+04 / 93
p0 258.5 ± 0.1946
550
500
450
400
350
300
250
200

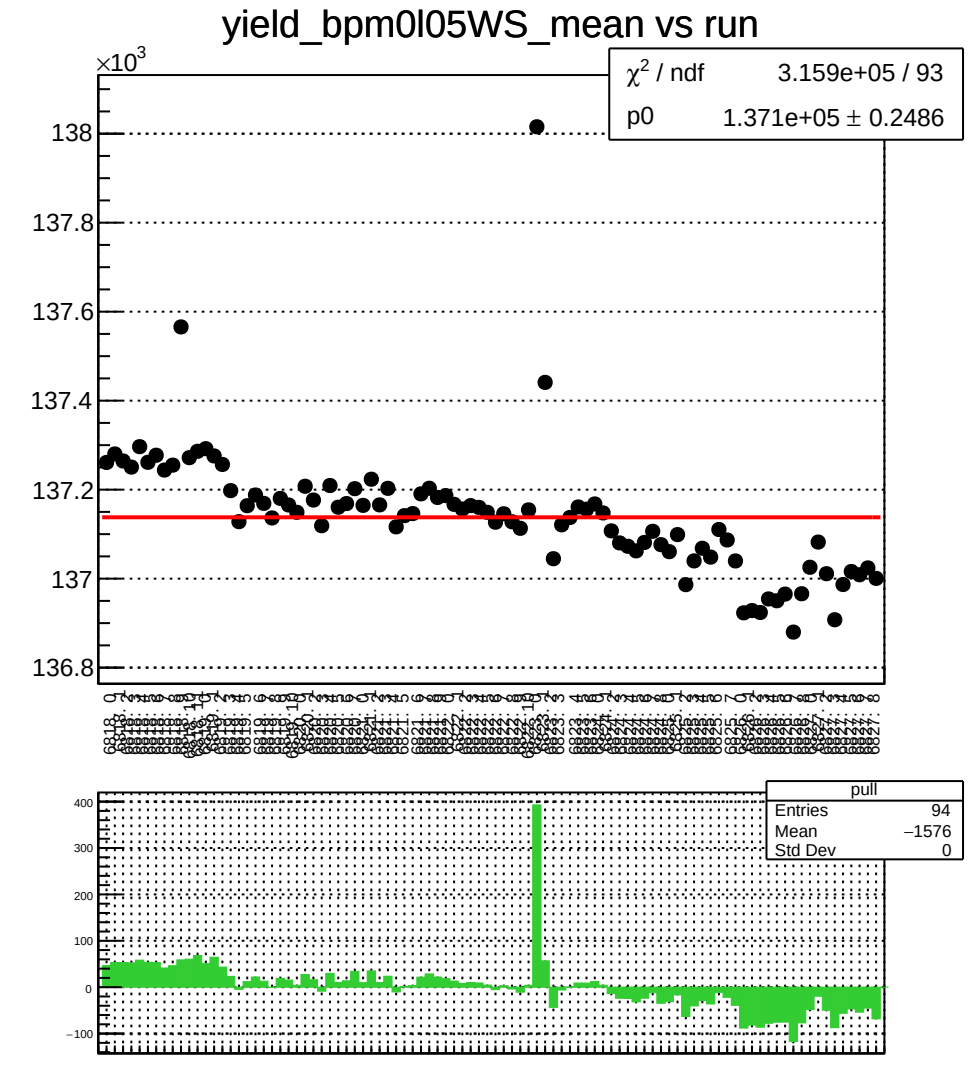

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 4.717e+04 / 93
p0 1.327e+05 ± 0.7121
133.5
133
132.5
132
131.5
131
130.5
pull
Entries 94
Mean 96.25
Std Dev 0
80
60
40
20
0
−20
−40

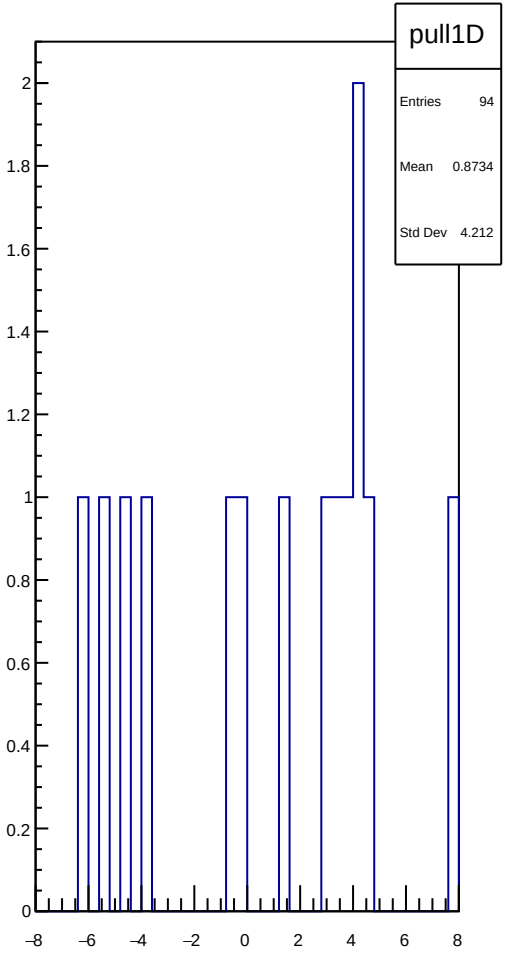

pull1D
Entries 94
Mean 1.051
Std Dev 4.615
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

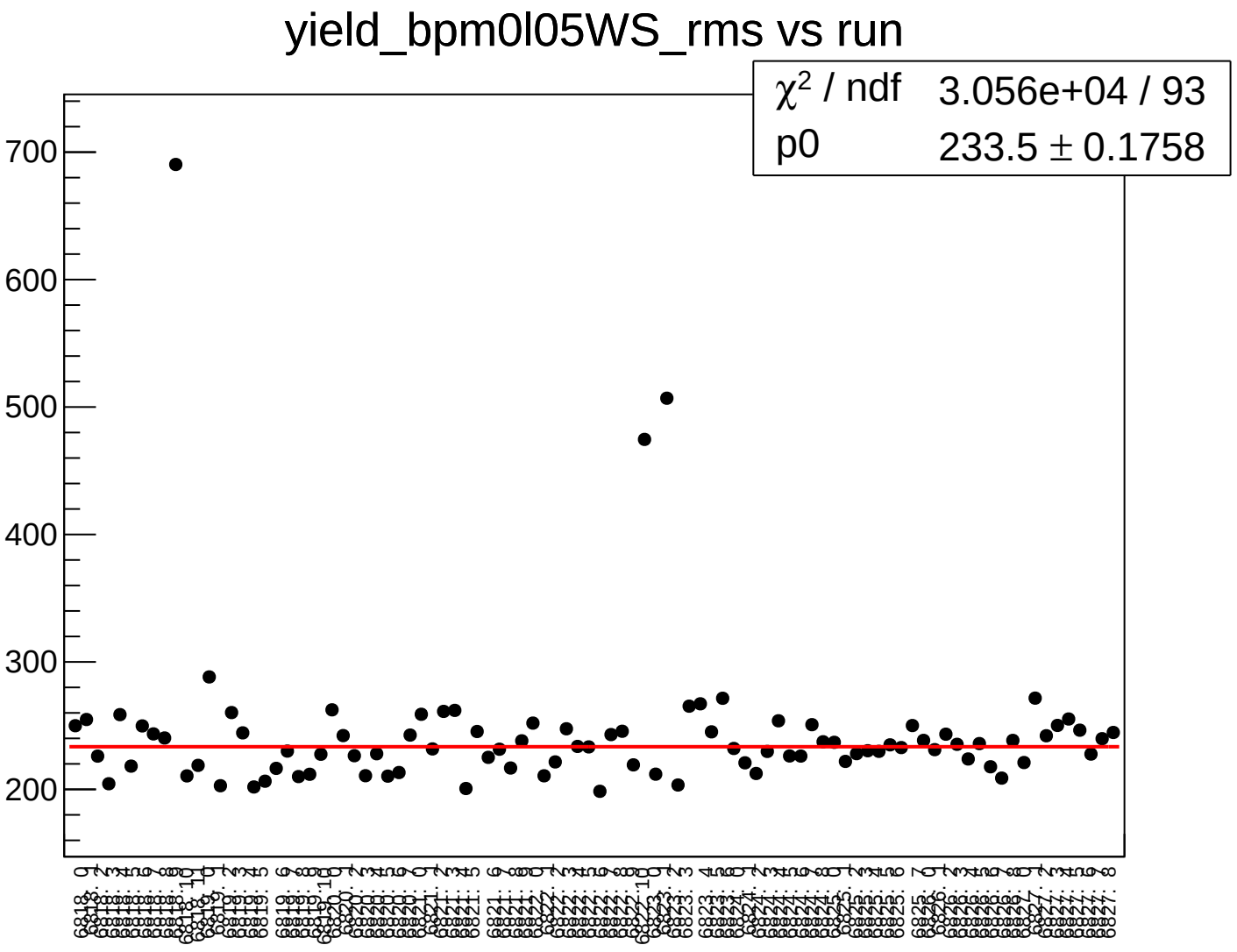

yield_bpm0l03WS_rms vs run
χ^2 / ndf 2.395e+05 / 93
p0 628 ± 0.5035
5000
4000
3000
2000
1000

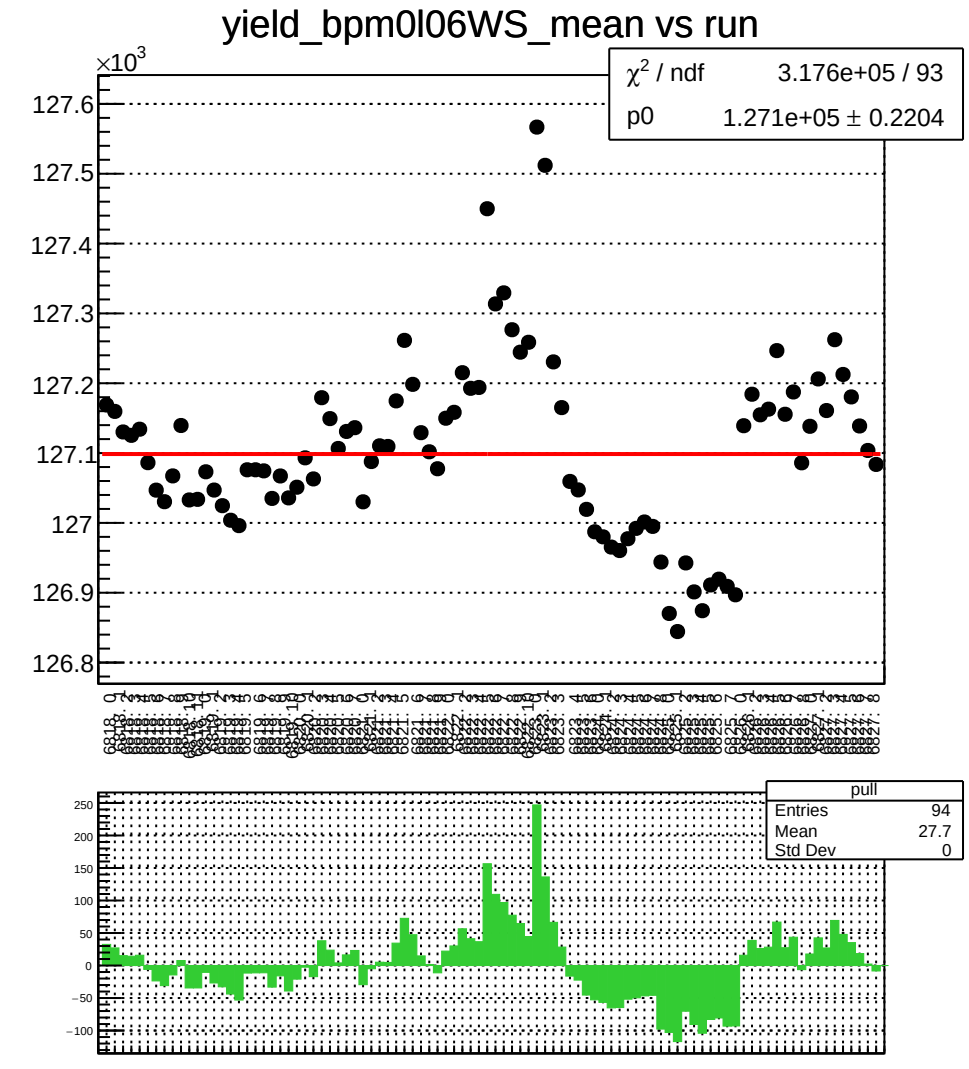

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 7.163e+05 / 93
p0 1.288e+05 ± 0.2245
129.2
129
128.8
128.6
128.4
128.2
pull
Entries 94
Mean −2084
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −0.2393
Std Dev 4.212
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

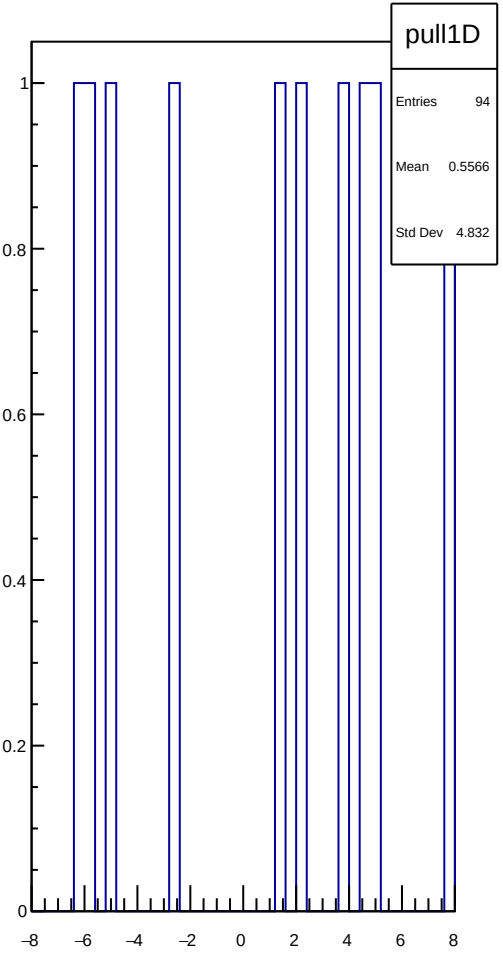

yield_bpm0l04WS_rms vs run
χ² / ndf 2.363e+04 / 93
p0 211.3 ± 0.1587
500
450
400
350
300
250
200
150

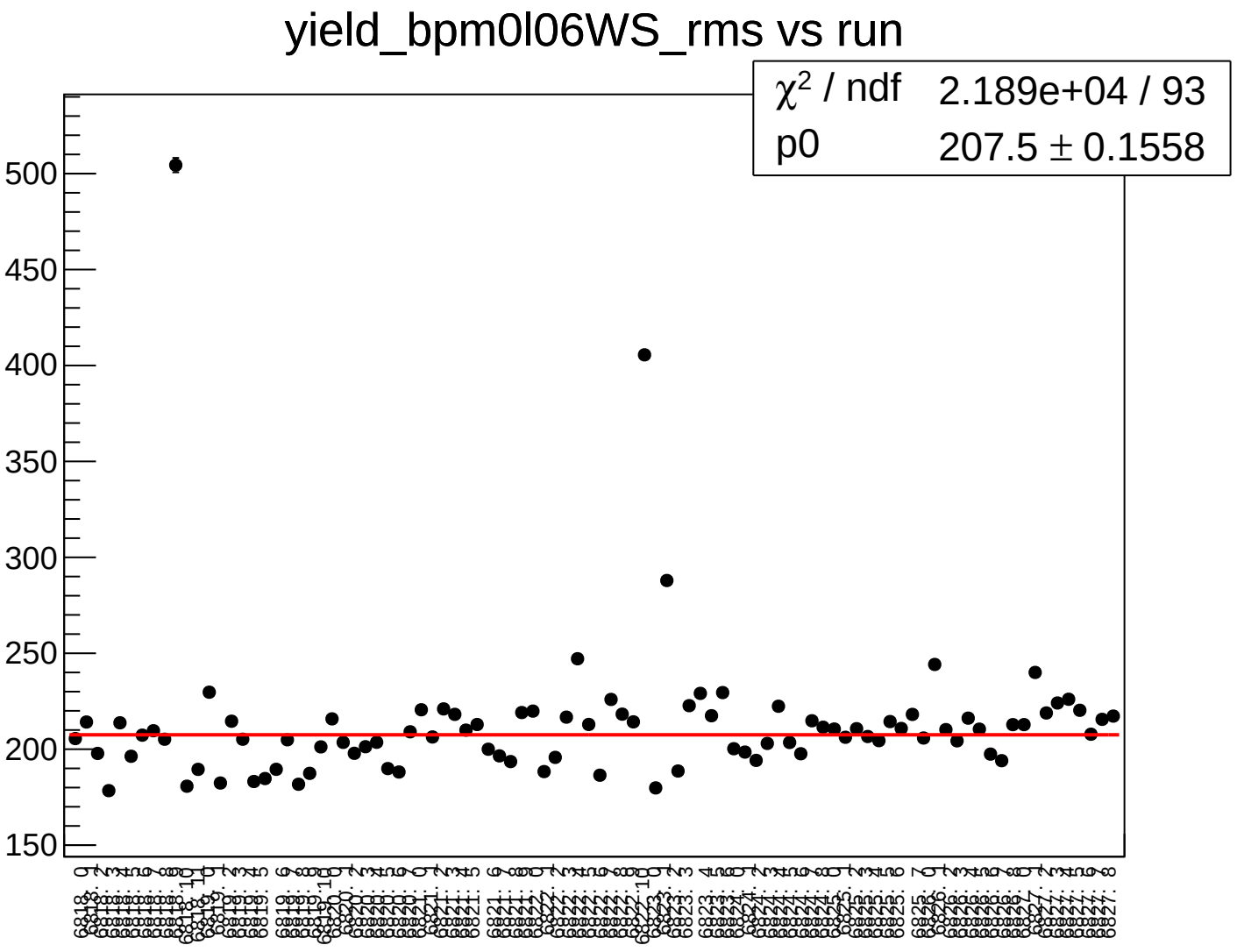

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 3.159e+05 / 93
p0 1.371e+05 ± 0.2486
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 94
Mean −1576
Std Dev 0
400
300
200
100
0
−100

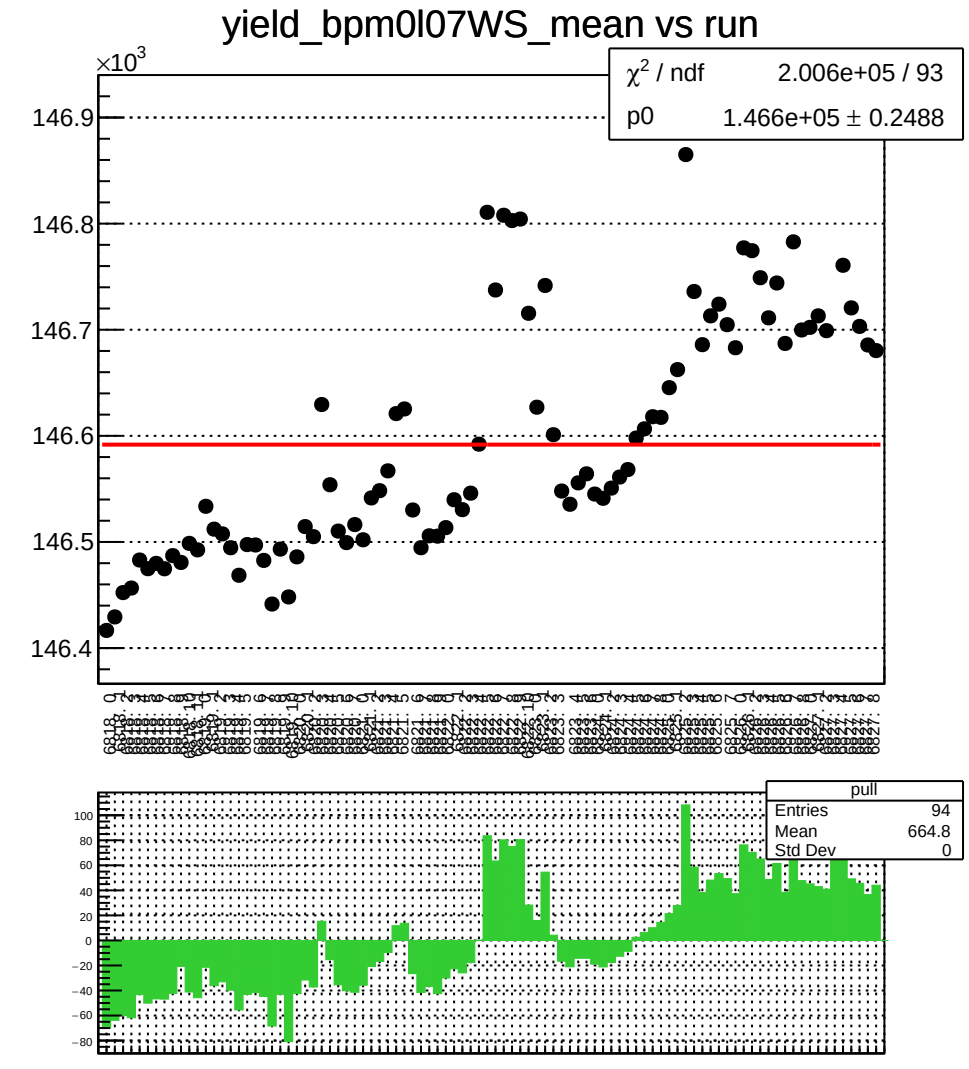

pull1D
Entries 94
Mean 0.8734
Std Dev 4.212
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

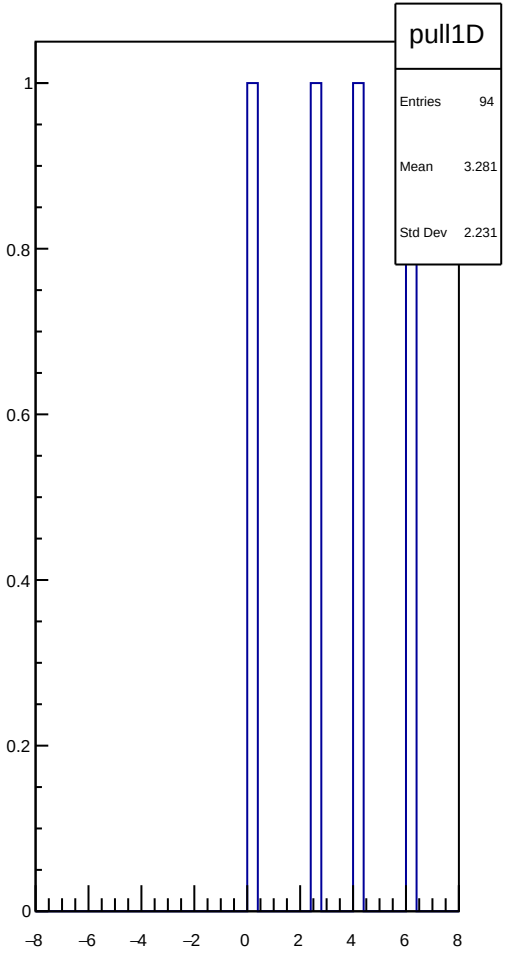

yield_bpm0l05WS_rms vs run
χ² / ndf 3.056e+04 / 93
p0 233.5 ± 0.1758
700
600
500
400
300
200

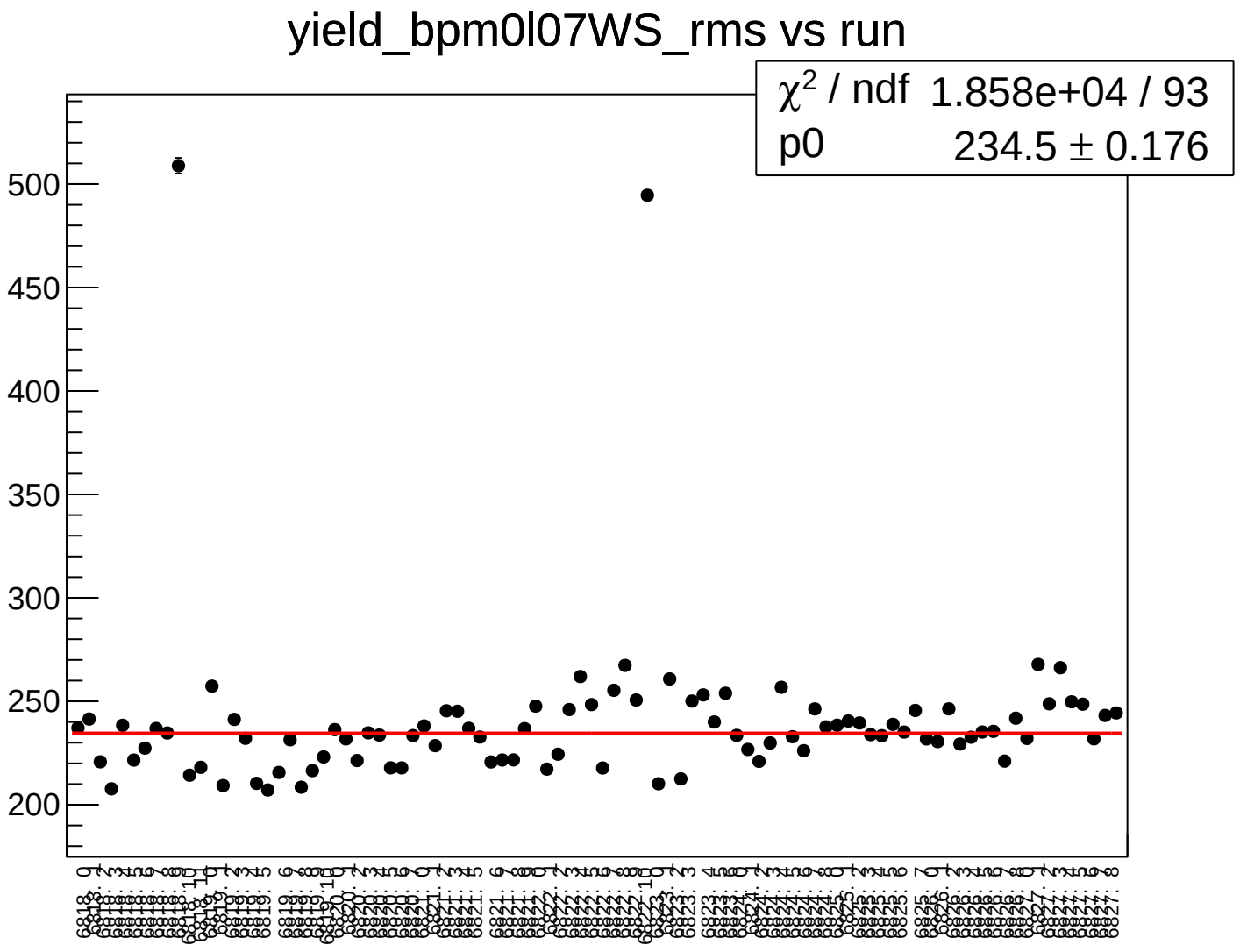

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.176e+05 / 93
p0 1.271e+05 ± 0.2204
127.6
127.5
127.4
127.3
127.2
127.1
127
126.9
126.8
pull
Entries 94
Mean 27.7
Std Dev 0
250
200
150
100
50
0
−50
−100

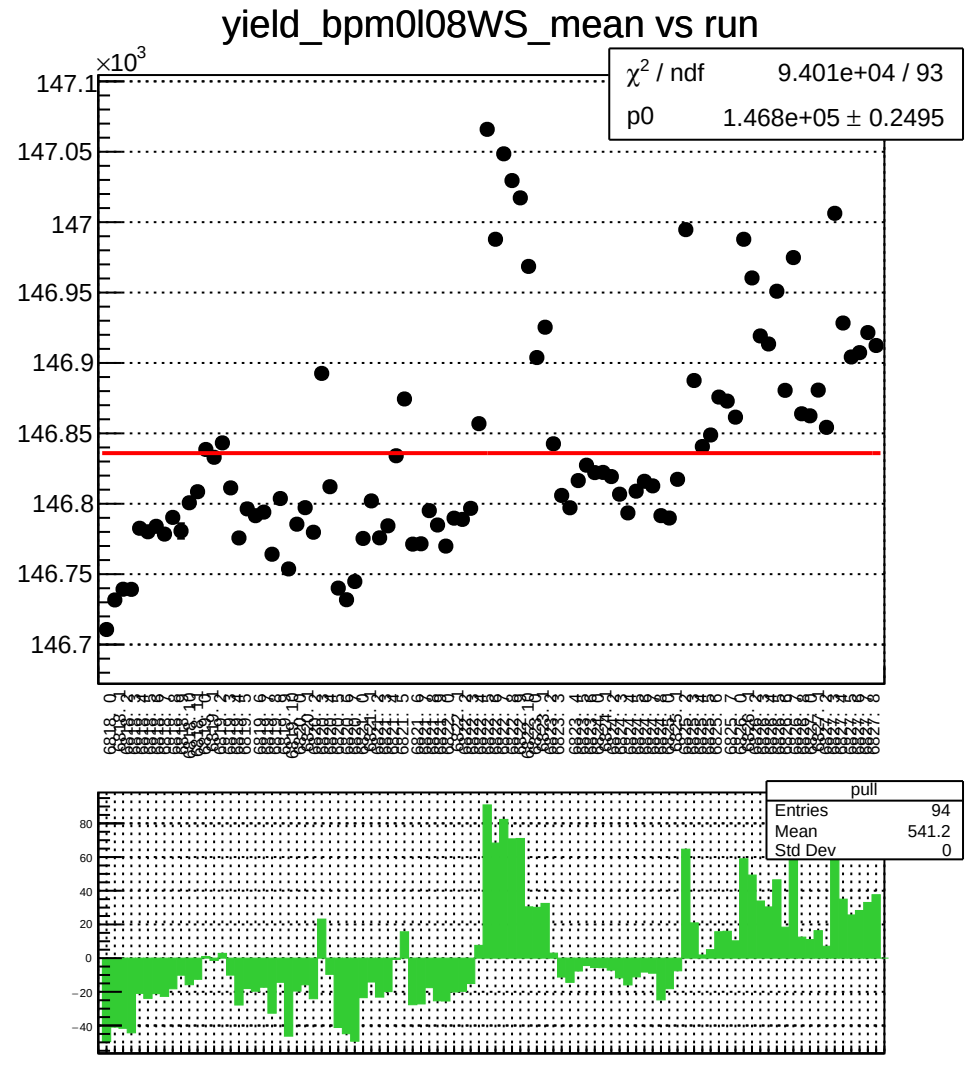

pull1D
Entries 94
Mean 0.5566
Std Dev 4.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

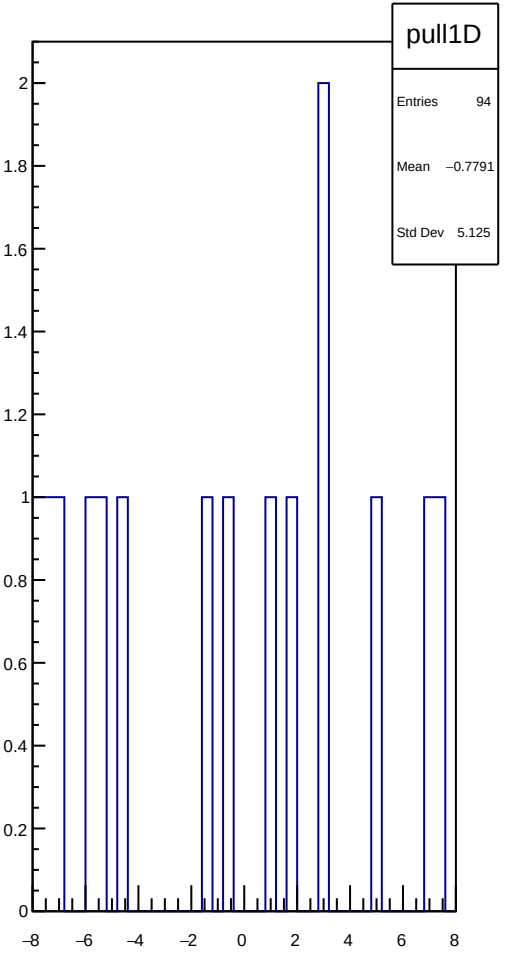

yield_bpm0l06WS_rms vs run
χ² / ndf 2.189e+04 / 93
p0 207.5 ± 0.1558
500
450
400
350
300
250
200
150

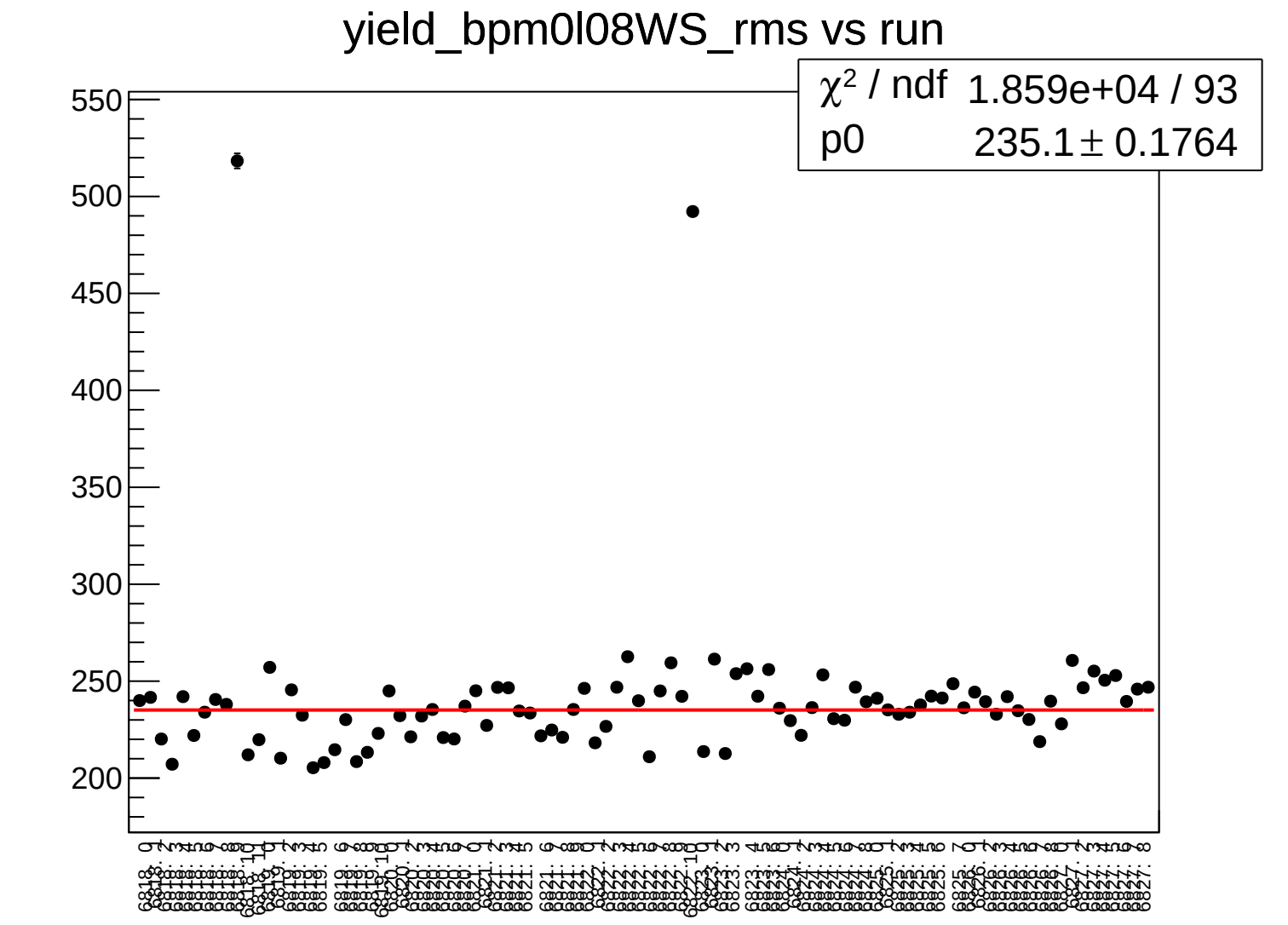

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.006e+05 / 93
p0 1.466e+05 ± 0.2488
146.9
146.8
146.7
146.6
146.5
146.4
pull
Entries 94
Mean 664.8
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

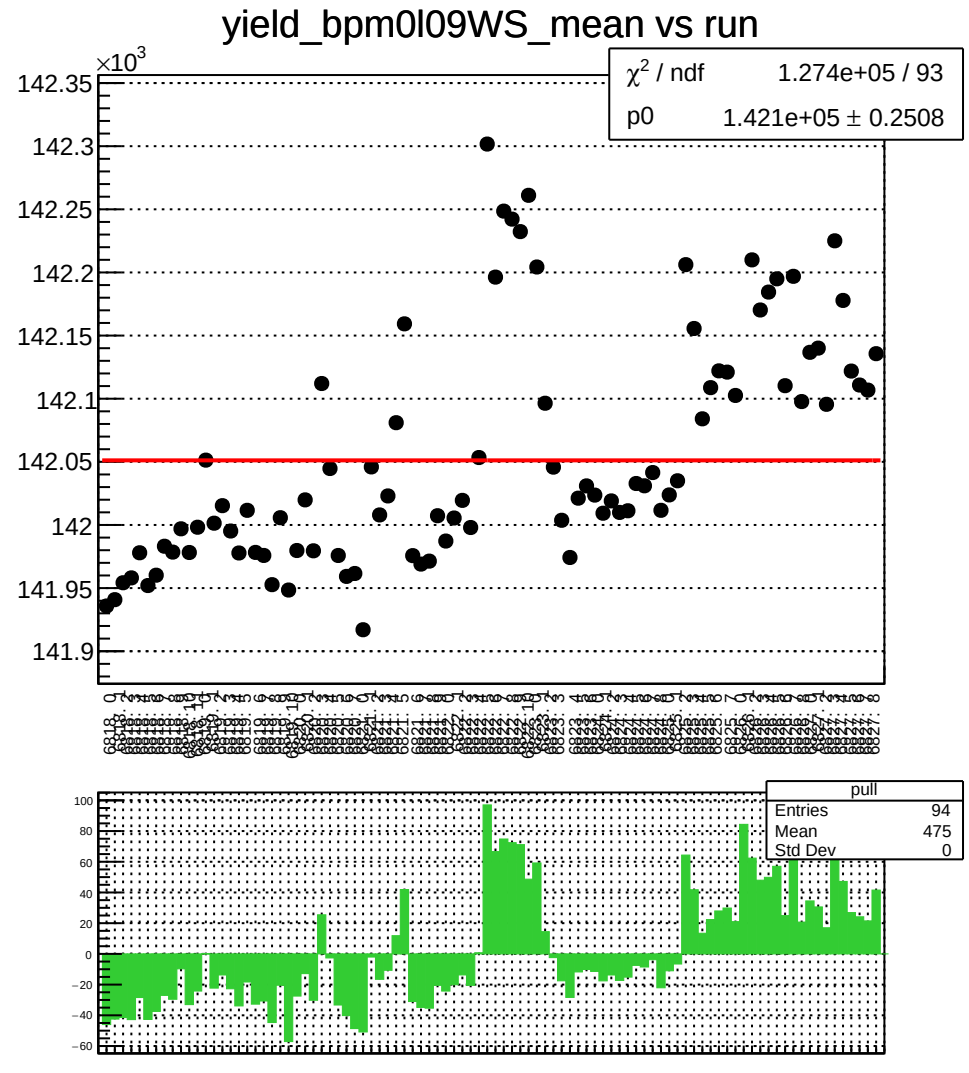

pull1D
Entries 94
Mean 3.281
Std Dev 2.231
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

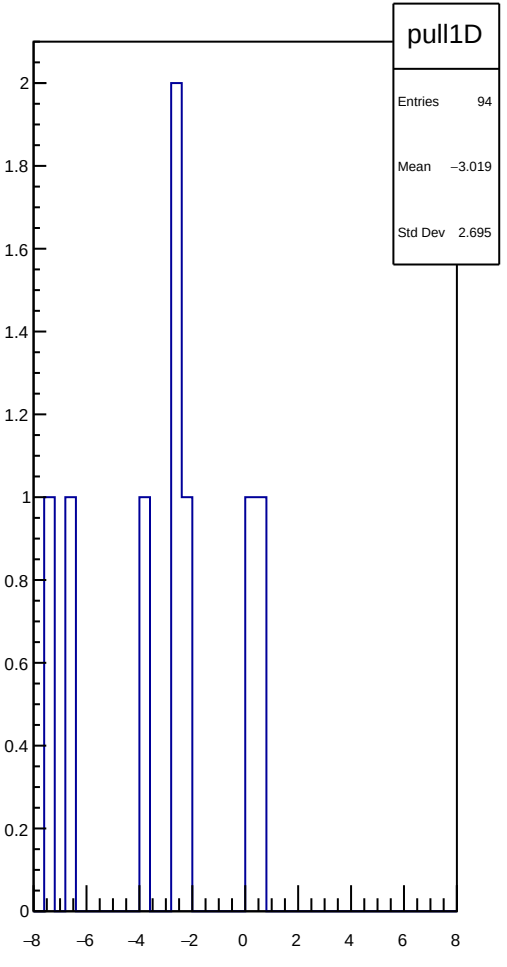

yield_bpm0l07WS_rms vs run
χ² / ndf 1.858e+04 / 93
p0 234.5 ± 0.176
500
450
400
350
300
250
200

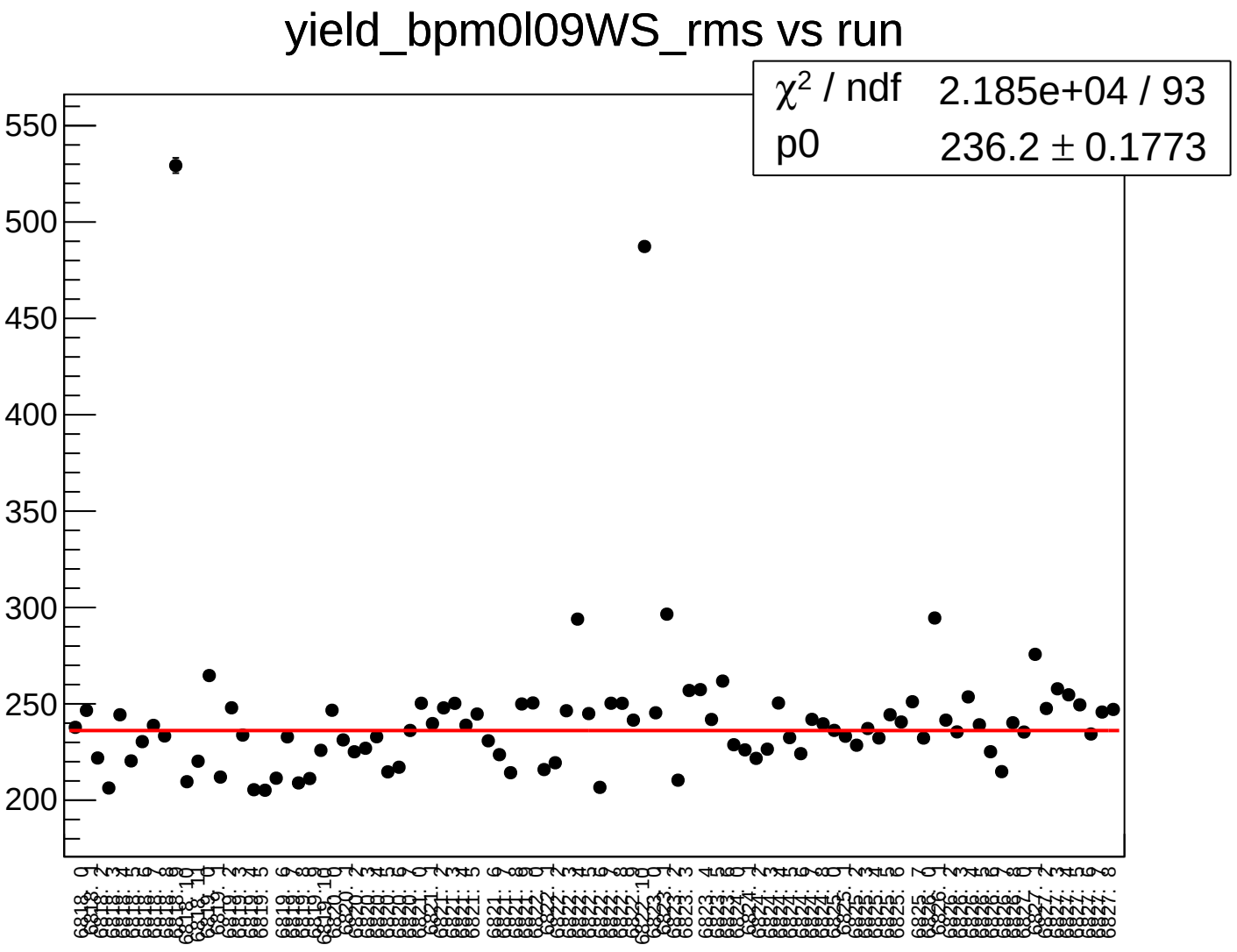

yield_bpm0l08WS_mean vs run
×10^3
147.1
147.05
147
146.95
146.9
146.85
146.8
146.75
146.7
χ² / ndf 9.401e+04 / 93
p0 1.468e+05 ± 0.2495
pull
Entries 94
Mean 541.2
Std Dev 0
80
60
40
20
0
−20
−40

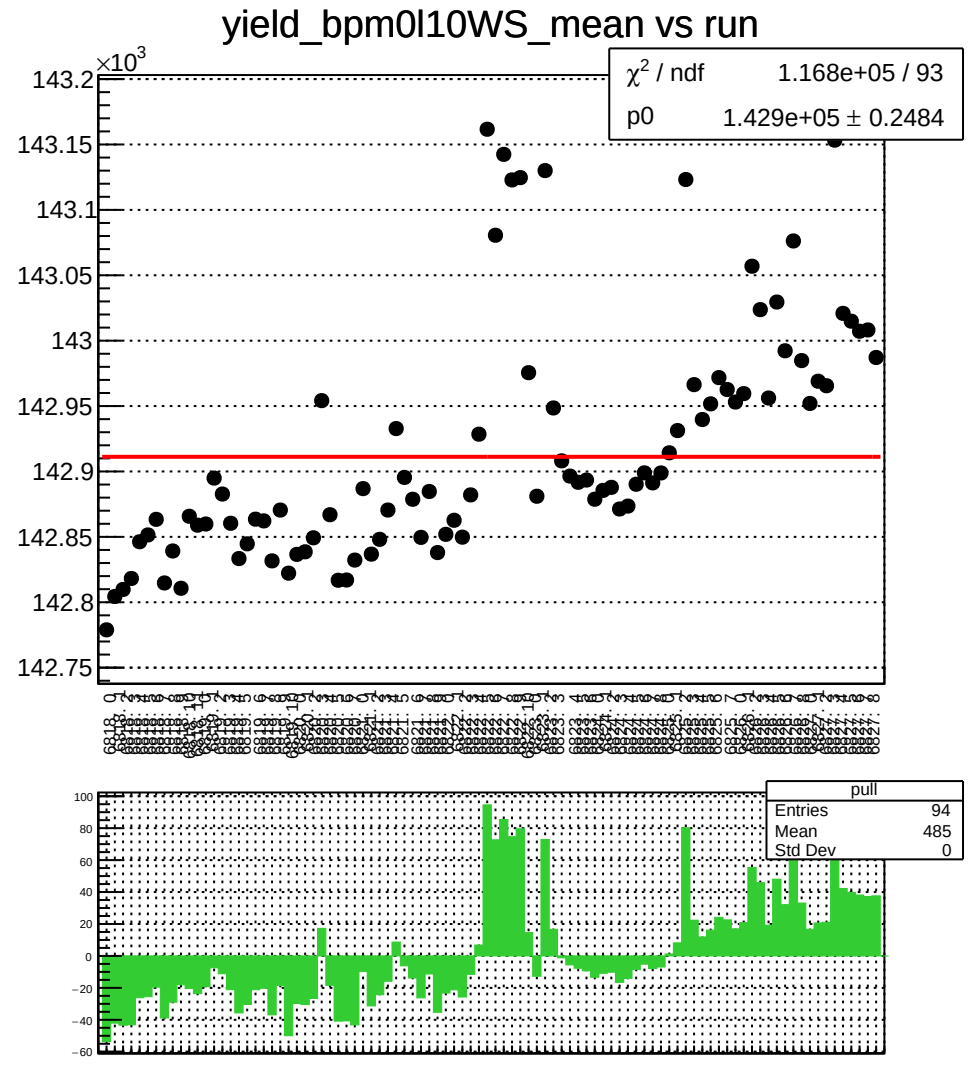

pull1D
Entries 94
Mean −0.7791
Std Dev 5.125
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

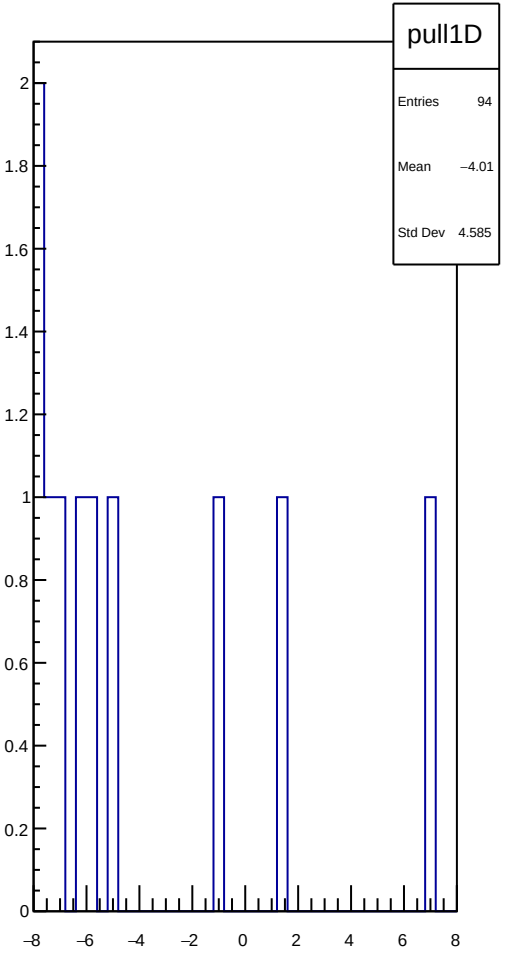

yield_bpm0l08WS_rms vs run
χ² / ndf 1.859e+04 / 93
p0 235.1 ± 0.1764
550
500
450
400
350
300
250
200

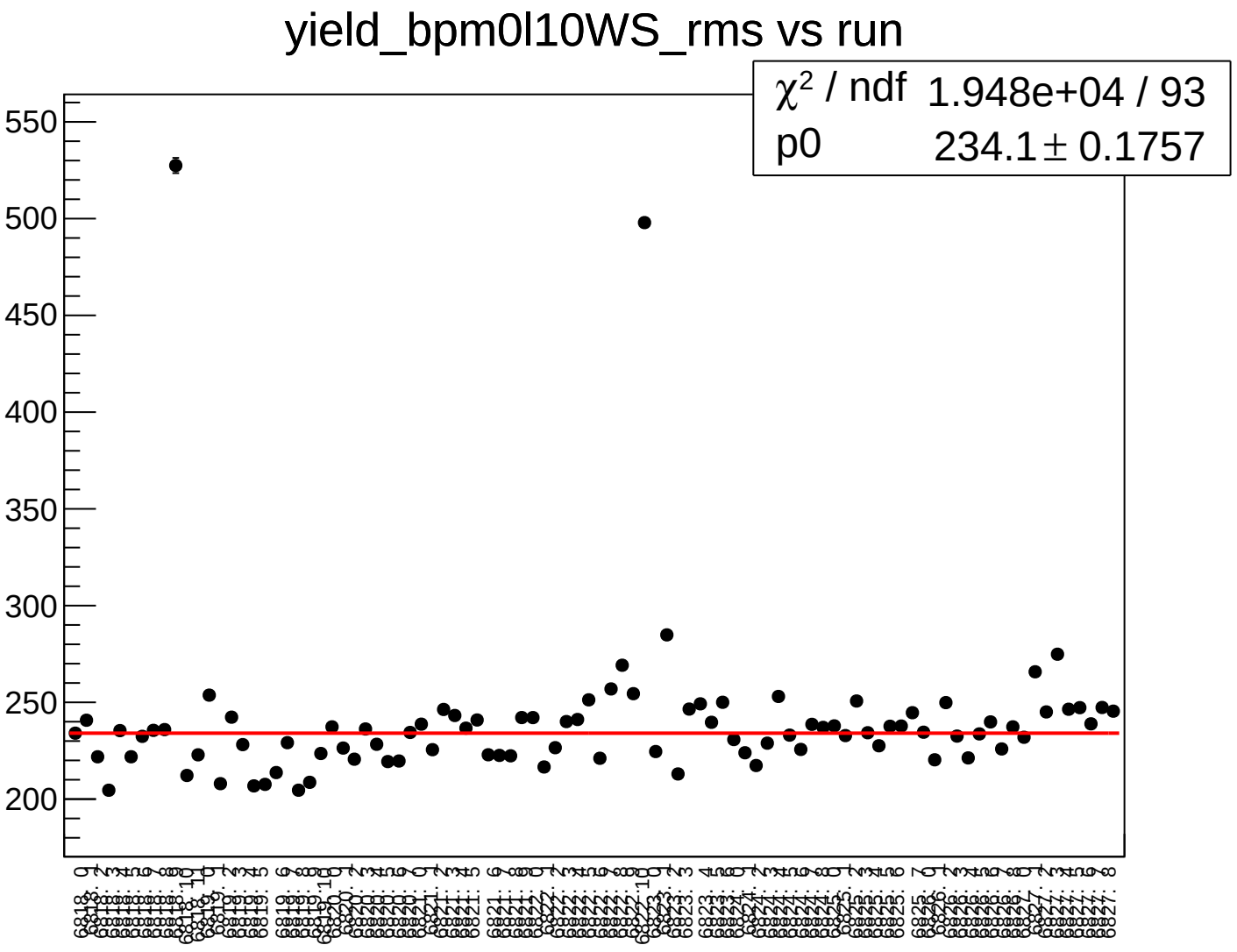

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.274e+05 / 93
p0 1.421e+05 ± 0.2508
142.35
142.3
142.25
142.2
142.15
142.1
142.05
142
141.95
141.9
pull
Entries 94
Mean 475
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

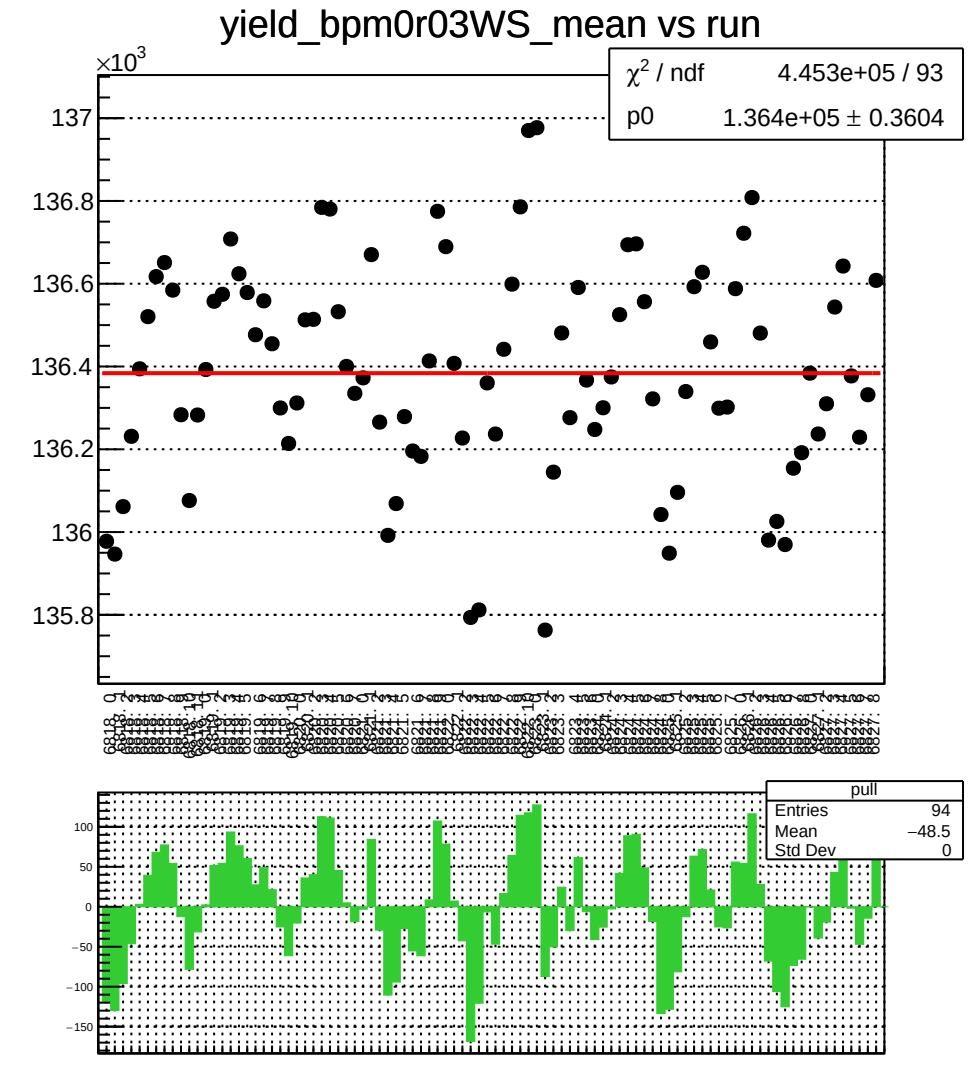

pull1D
Entries 94
Mean −3.019
Std Dev 2.695
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

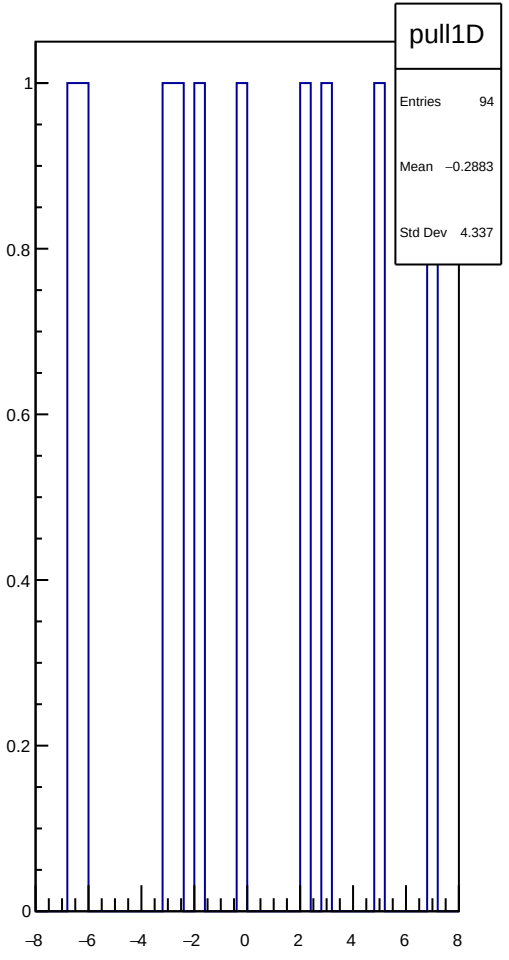

yield_bpm0l09WS_rms vs run
χ² / ndf 2.185e+04 / 93
p0 236.2 ± 0.1773
550
500
450
400
350
300
250
200

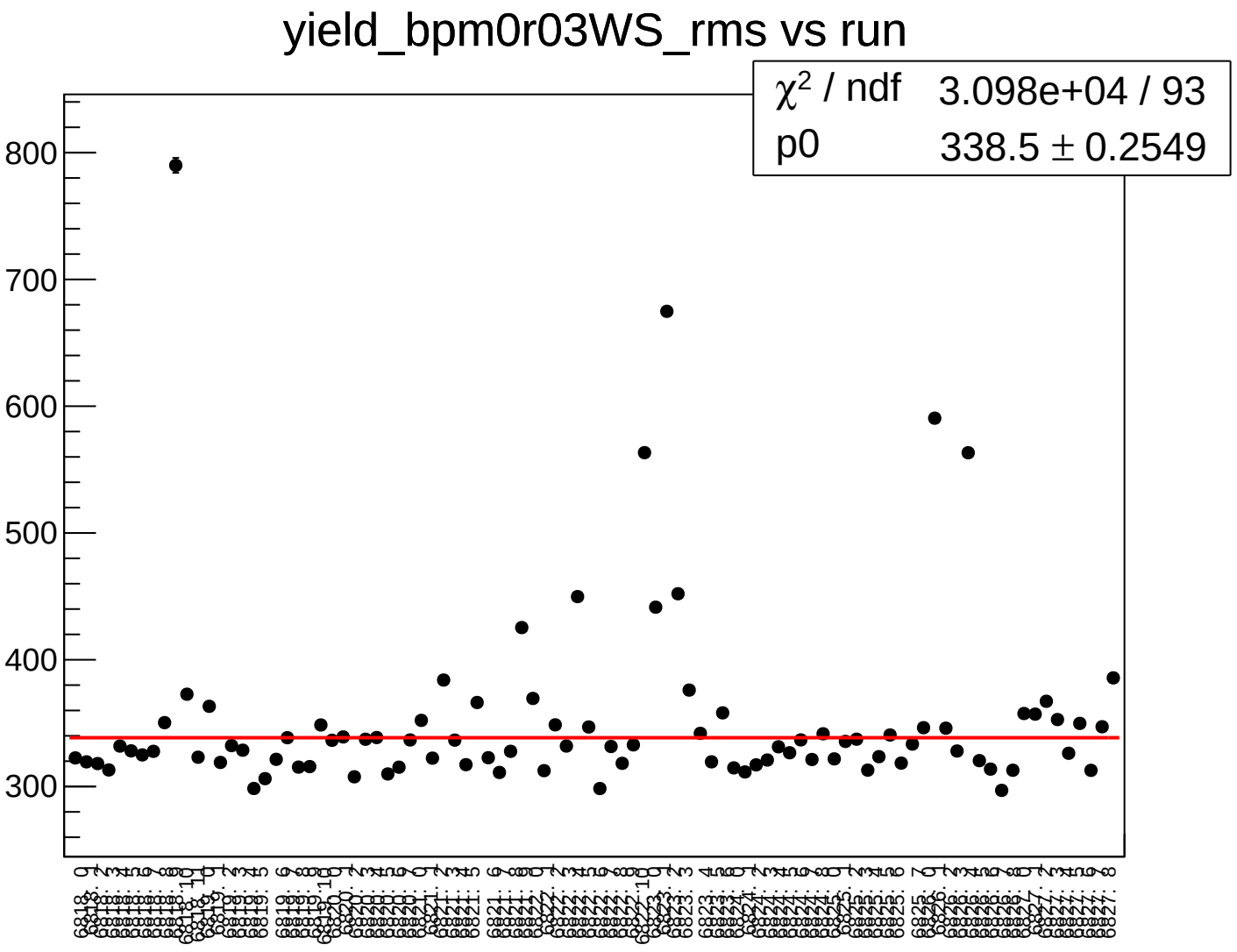

yield_bpm0l10WS_mean vs run
×10^3
143.2
143.15
143.1
143.05
143
142.95
142.9
142.85
142.8
142.75
χ² / ndf 1.168e+05 / 93
p0 1.429e+05 ± 0.2484
pull
Entries 94
Mean 485
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

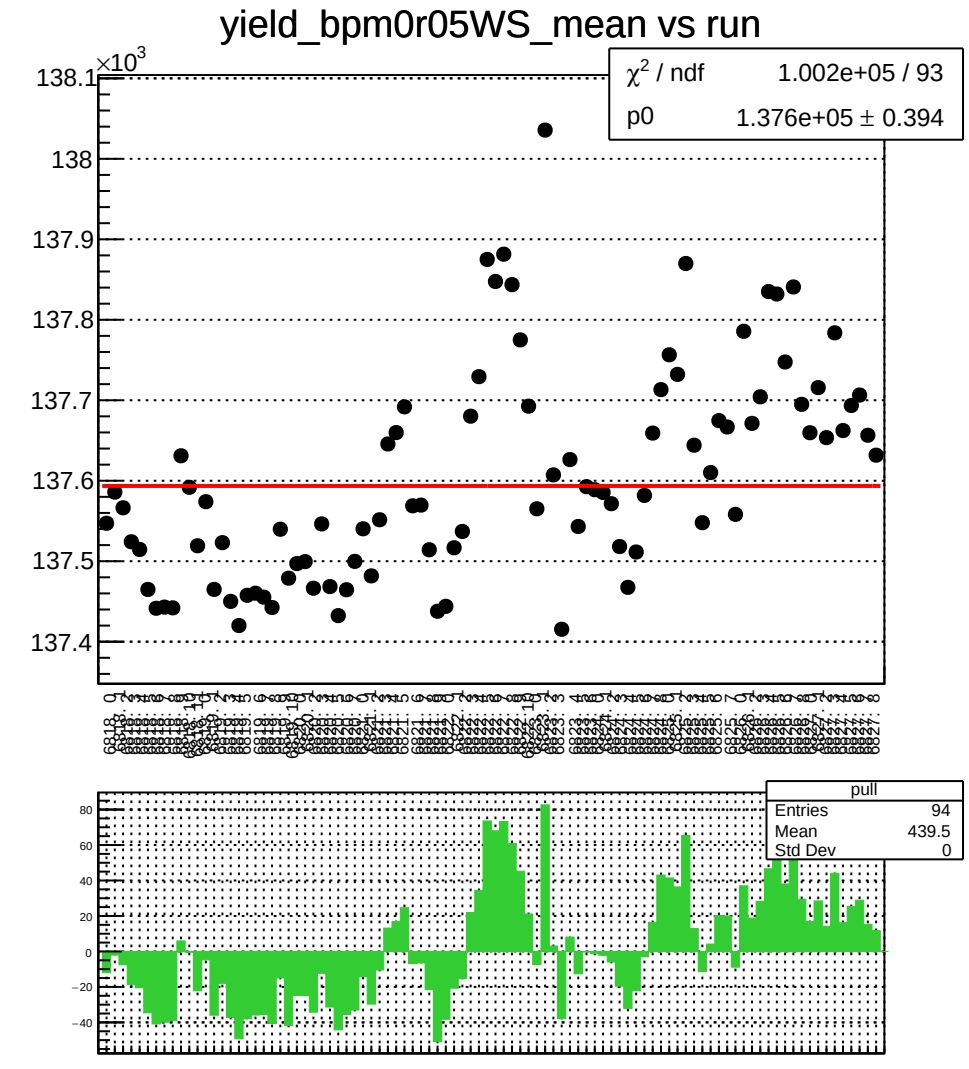

pull1D
Entries 94
Mean −4.01
Std Dev 4.585
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

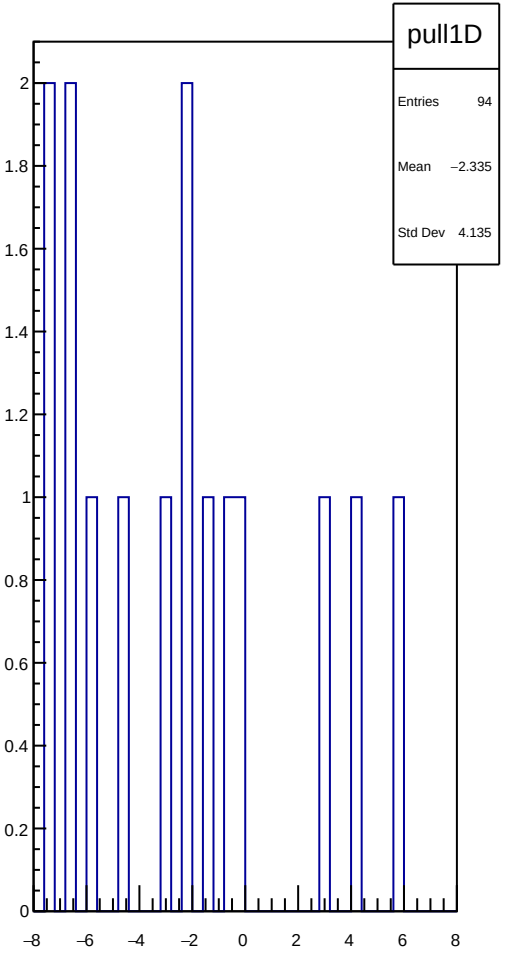

yield_bpm0l10WS_rms vs run
χ² / ndf 1.948e+04 / 93
p0 234.1 ± 0.1757
550
500
450
400
350
300
250
200

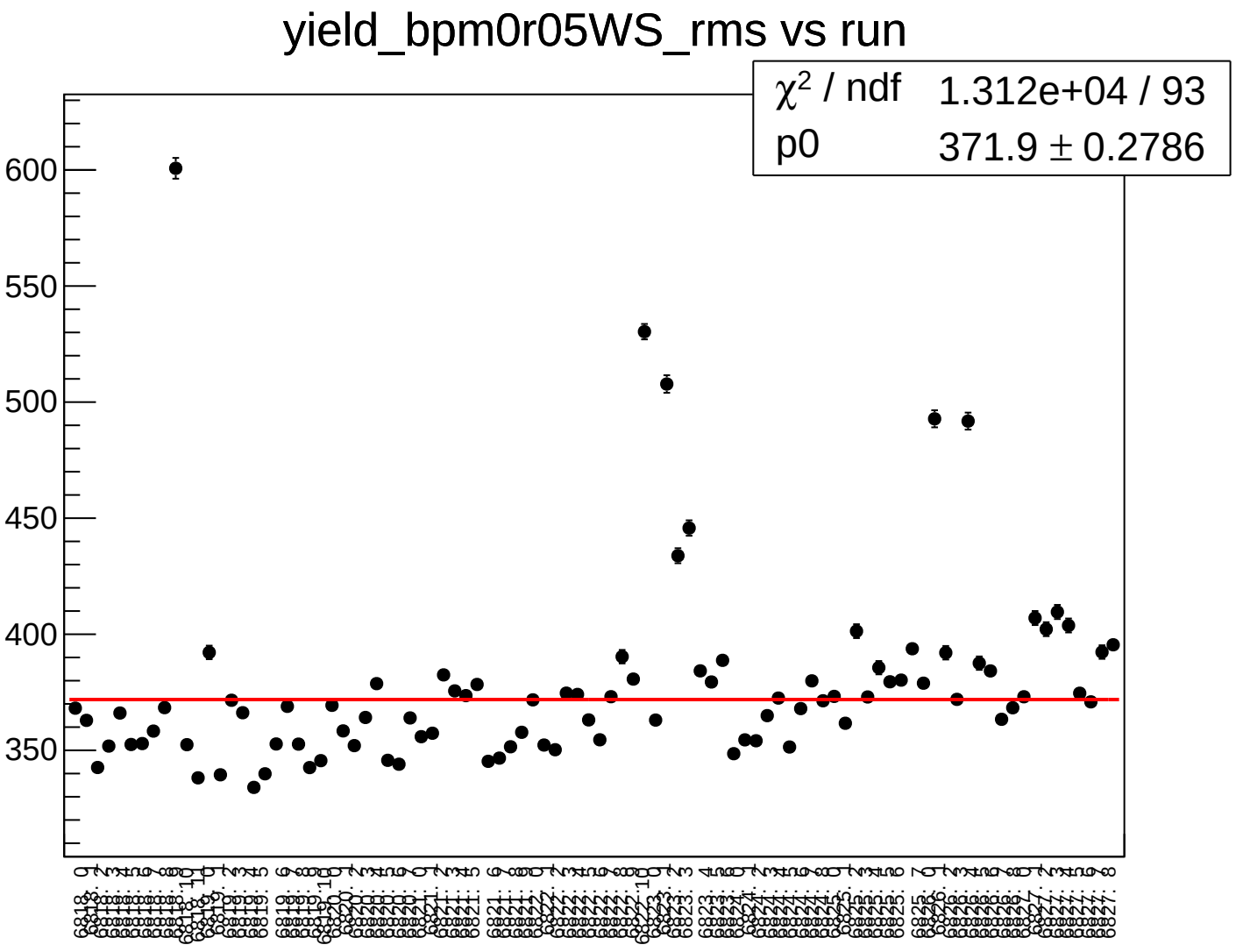

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.453e+05 / 93
p0 1.364e+05 ± 0.3604
137
136.8
136.6
136.4
136.2
136
135.8
pull
Entries 94
Mean −48.5
Std Dev 0
100
50
0
−50
−100
−150

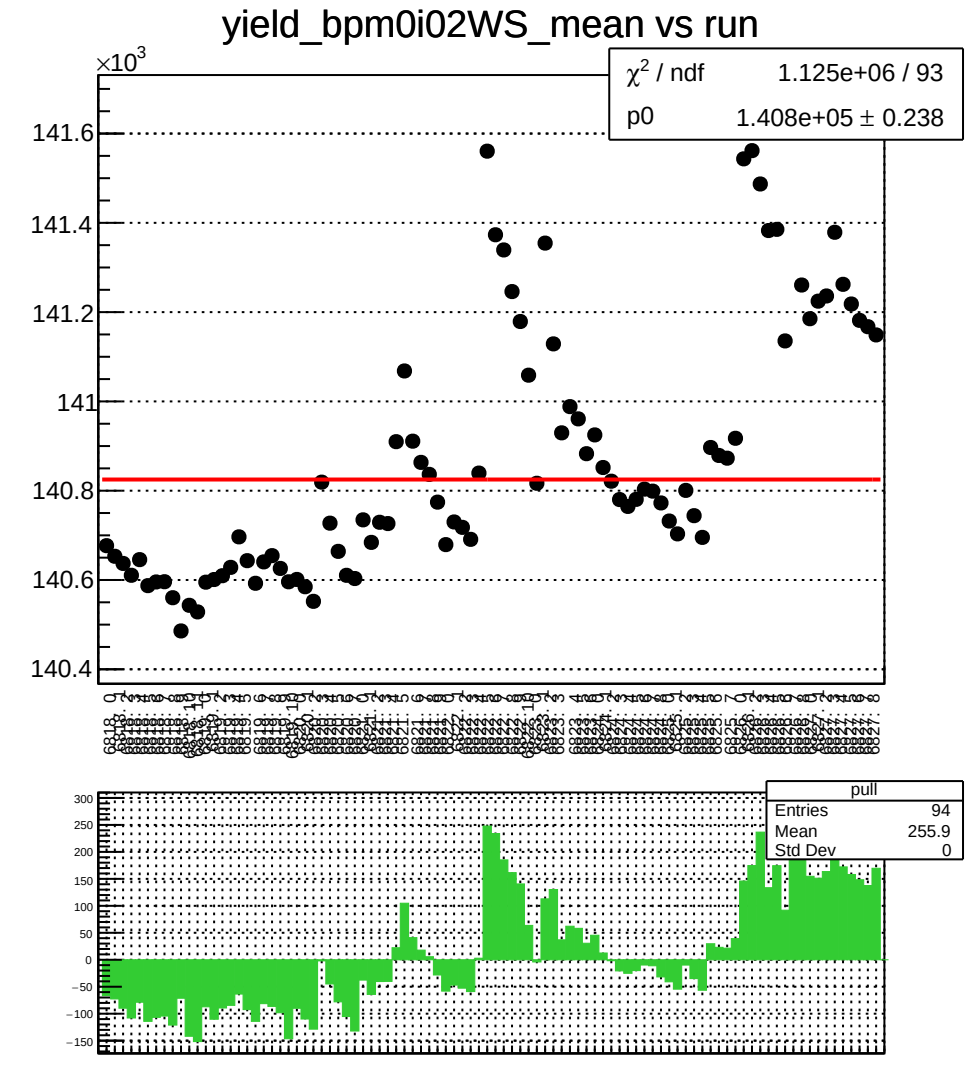

pull1D
Entries 94
Mean −0.2883
Std Dev 4.337
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

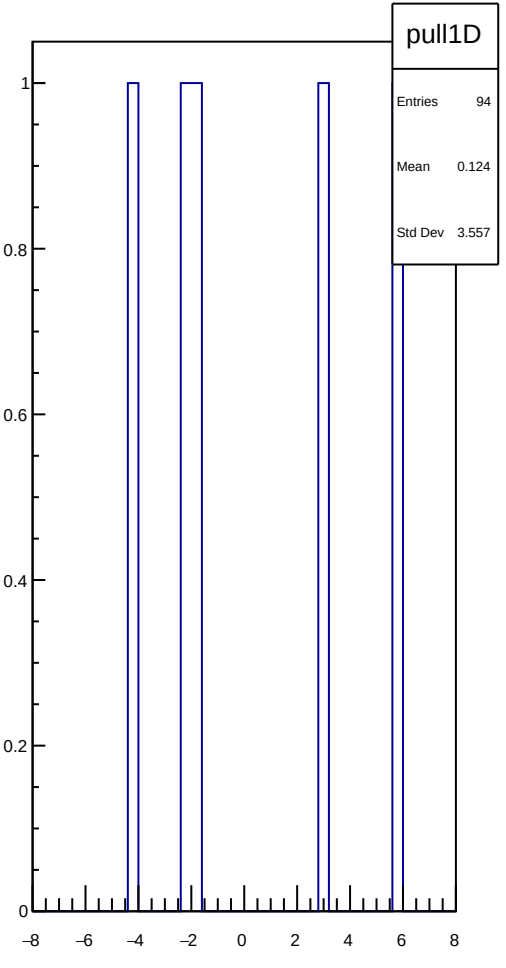

yield_bpm0r03WS_rms vs run
χ² / ndf 3.098e+04 / 93
p0 338.5 ± 0.2549
800
700
600
500
400
300

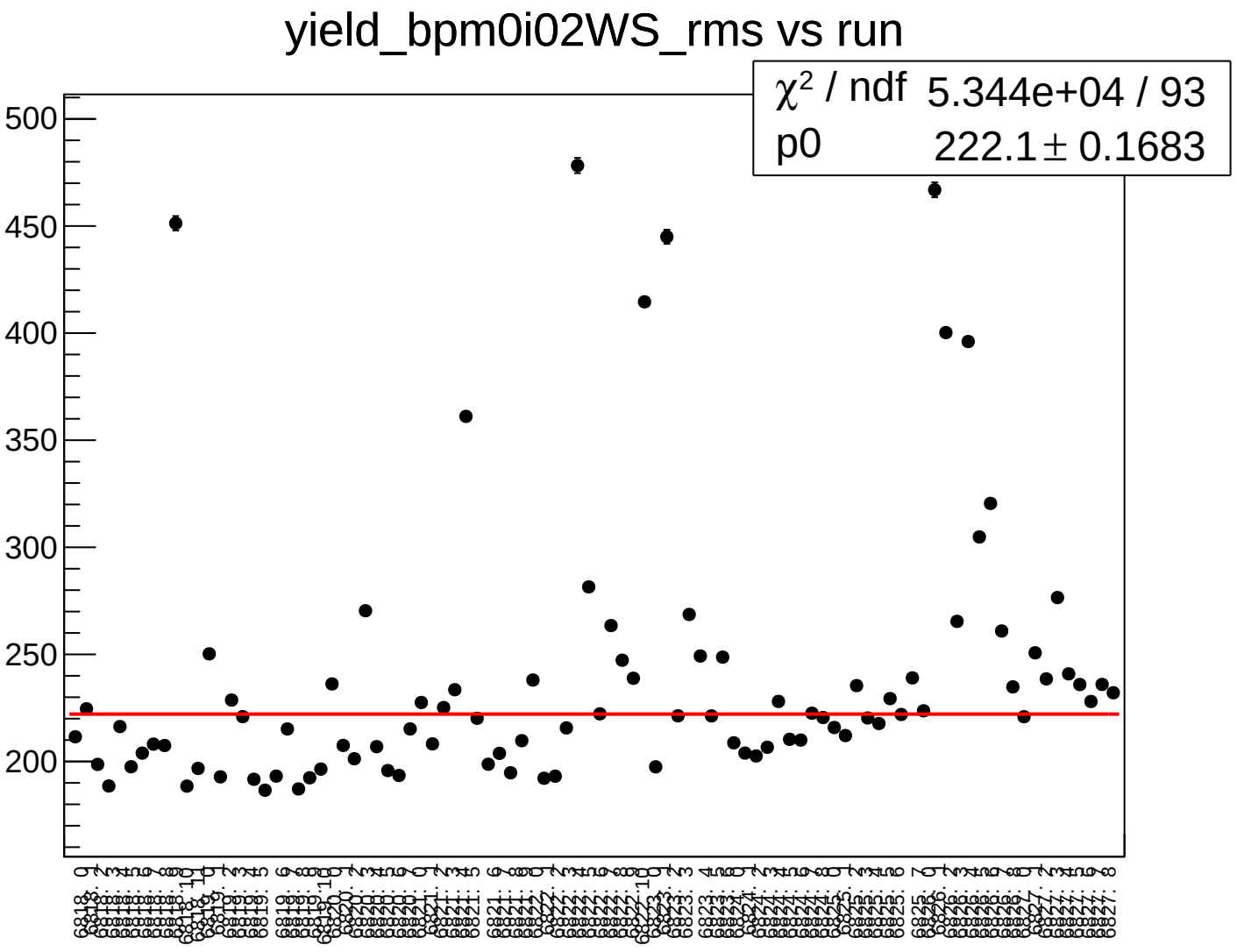

yield_bpm0r05WS_mean vs run
×10^3
138.1
138
137.9
137.8
137.7
137.6
137.5
137.4
χ² / ndf 1.002e+05 / 93
p0 1.376e+05 ± 0.394
pull
Entries 94
Mean 439.5
Std Dev 0
80
60
40
20
0
−20
−40

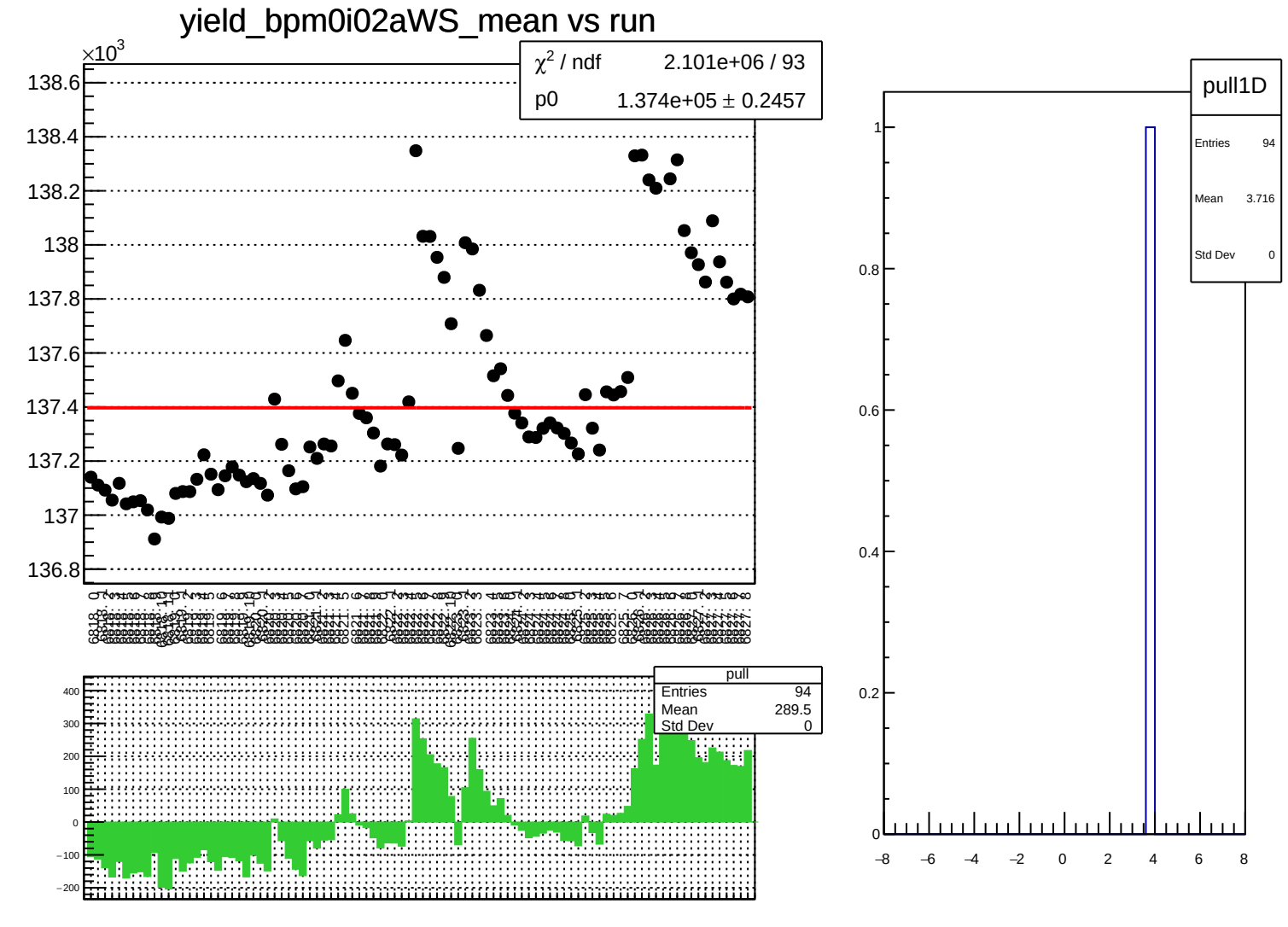

pull1D
Entries 94
Mean −2.335
Std Dev 4.135
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

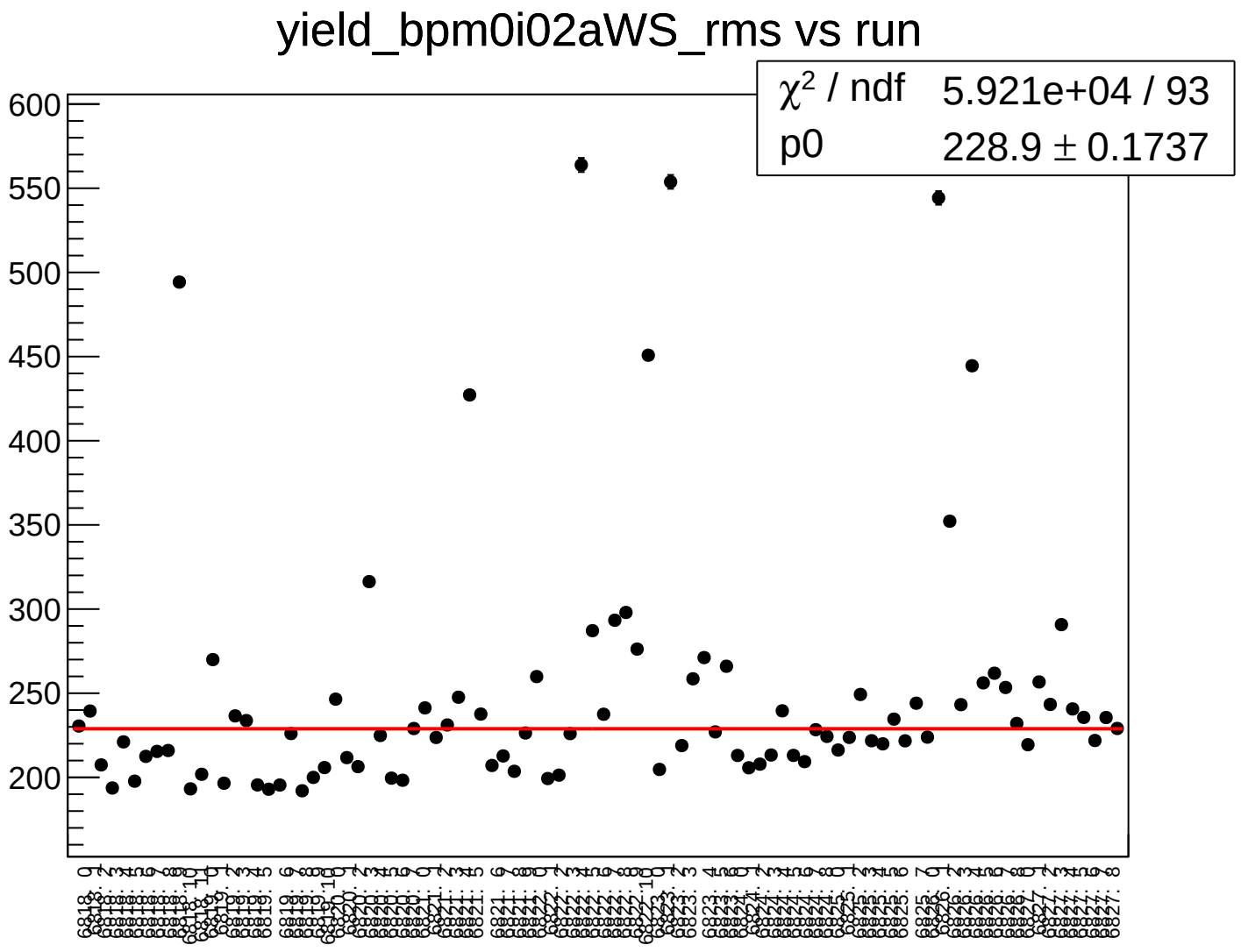

yield_bpm0r05WS_rms vs run
χ² / ndf 1.312e+04 / 93
p0 371.9 ± 0.2786
600
550
500
450
400
350

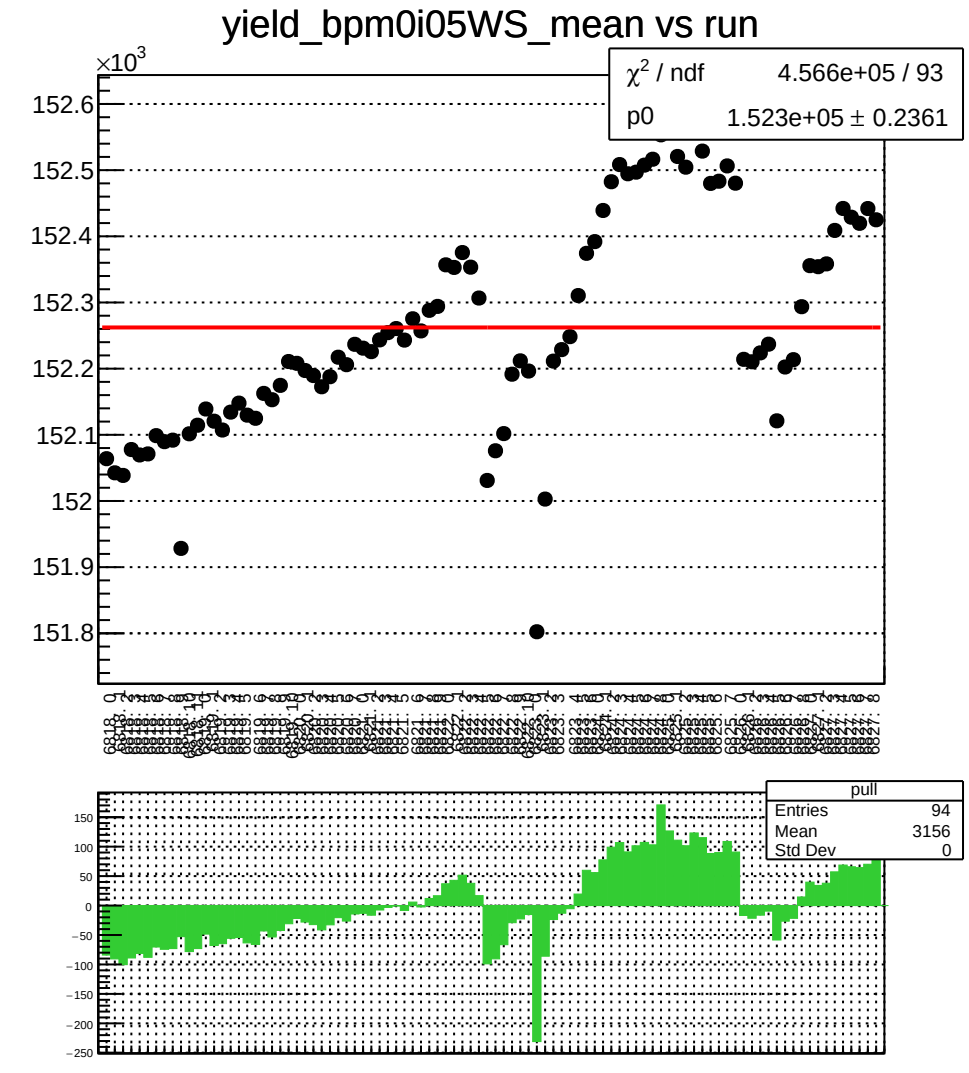

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.125e+06 / 93
p0 1.408e+05 ± 0.238
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 94
Mean 255.9
Std Dev 0
300
250
200
150
100
50
0
−50
−100
−150

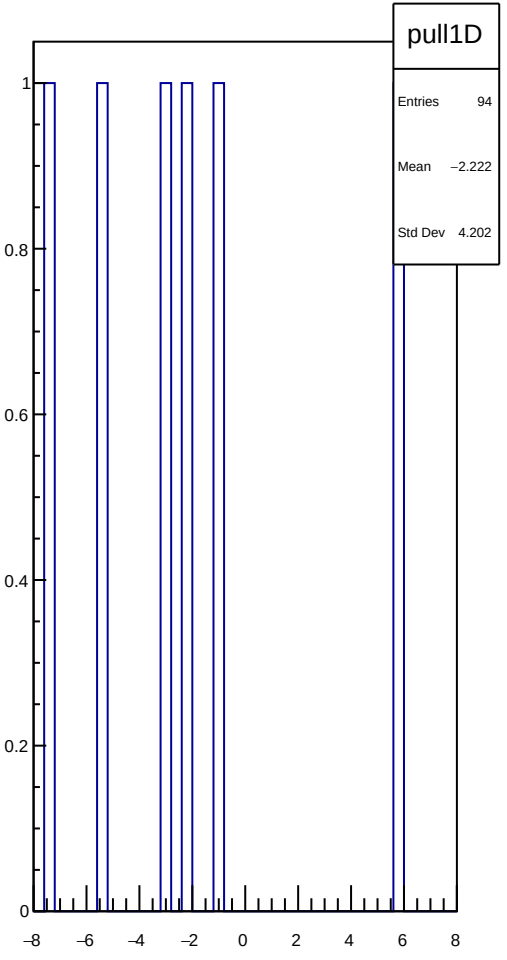

pull1D
Entries 94
Mean 0.124
Std Dev 3.557
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

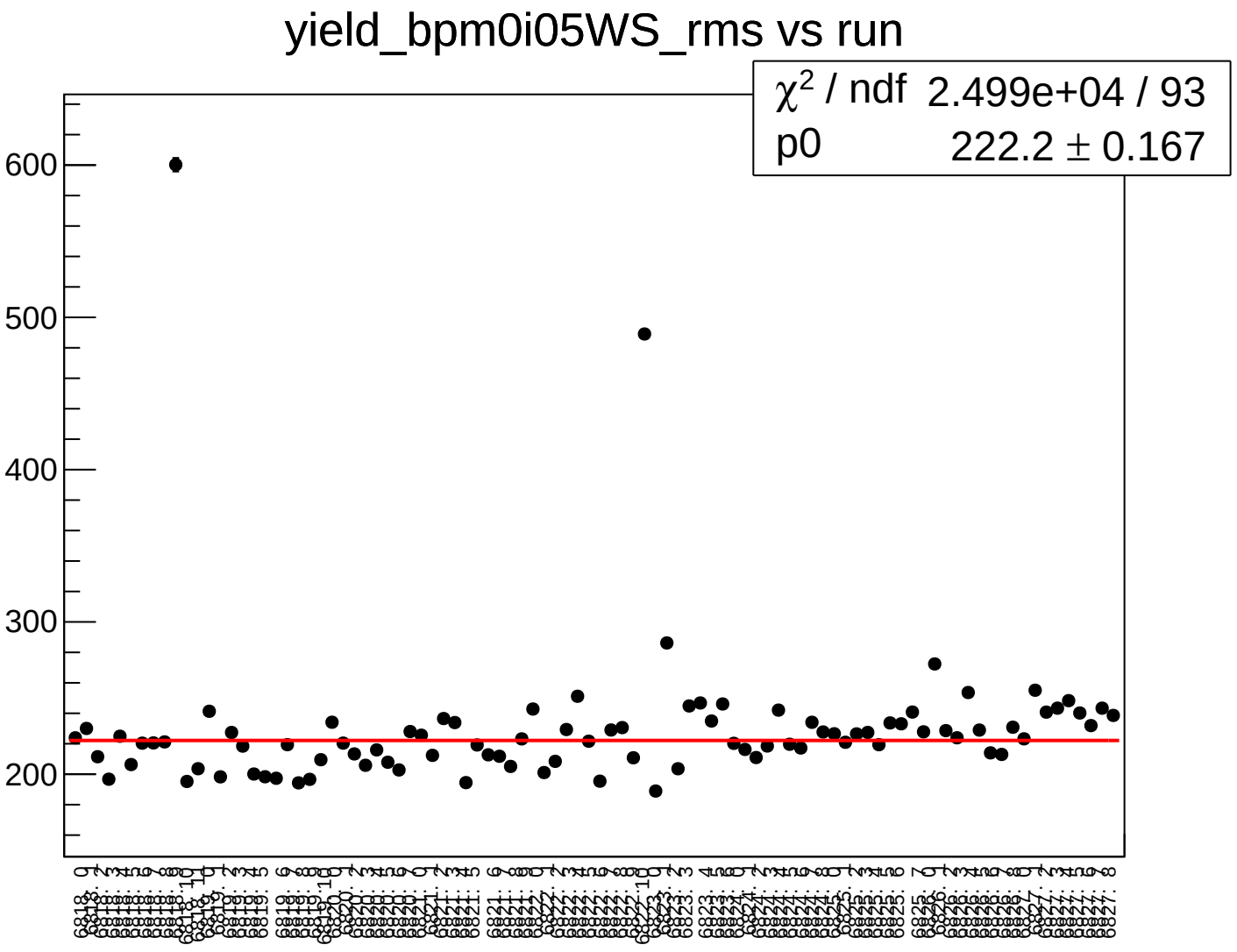

yield_bpm0i02WS_rms vs run
χ² / ndf 5.344e+04 / 93
p0 222.1 ± 0.1683
500
450
400
350
300
250
200

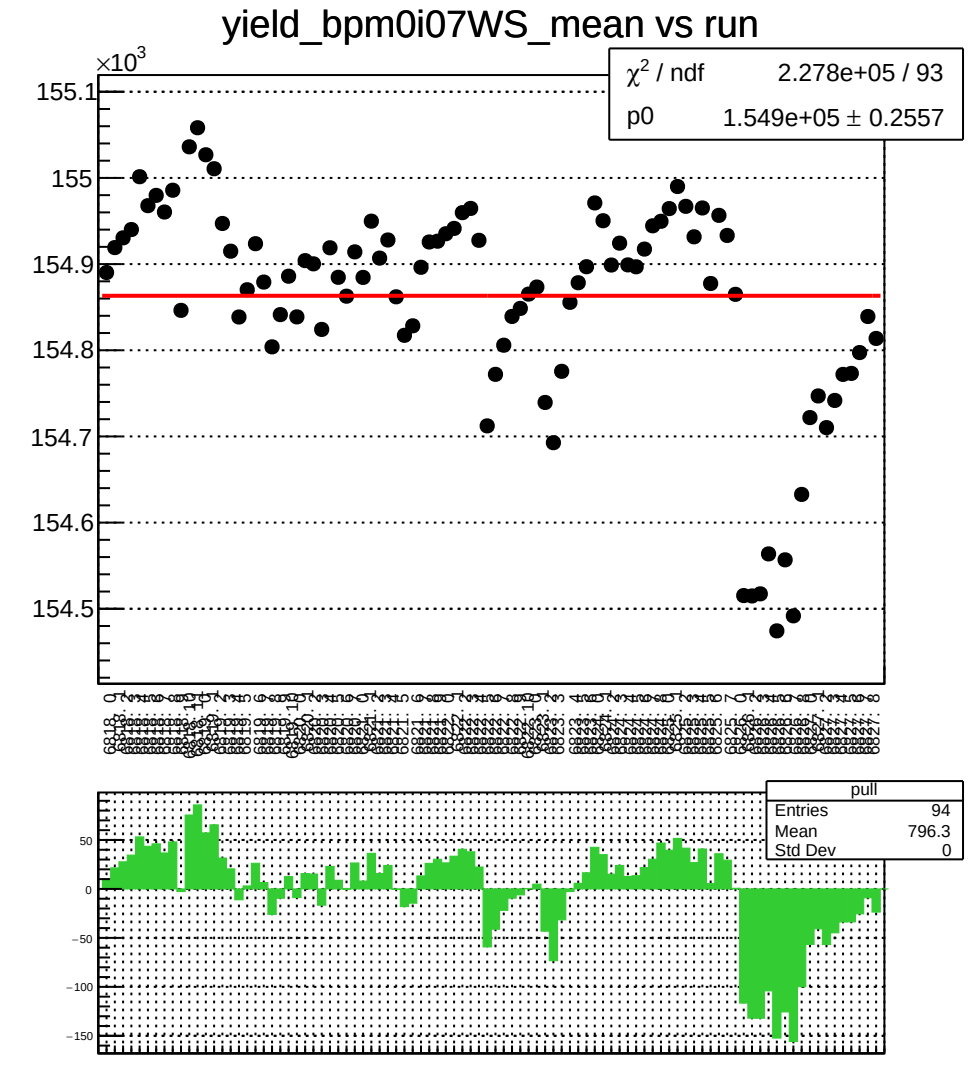

yield_bpm0i02aWS_mean vs run
×10^3
χ^2 / ndf 2.101e+06 / 93
p0 1.374e+05 ± 0.2457
138.6
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 94
Mean 289.5
Std Dev 0
400
300
200
100
0
−100
−200
pull1D
Entries 94
Mean 3.716
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

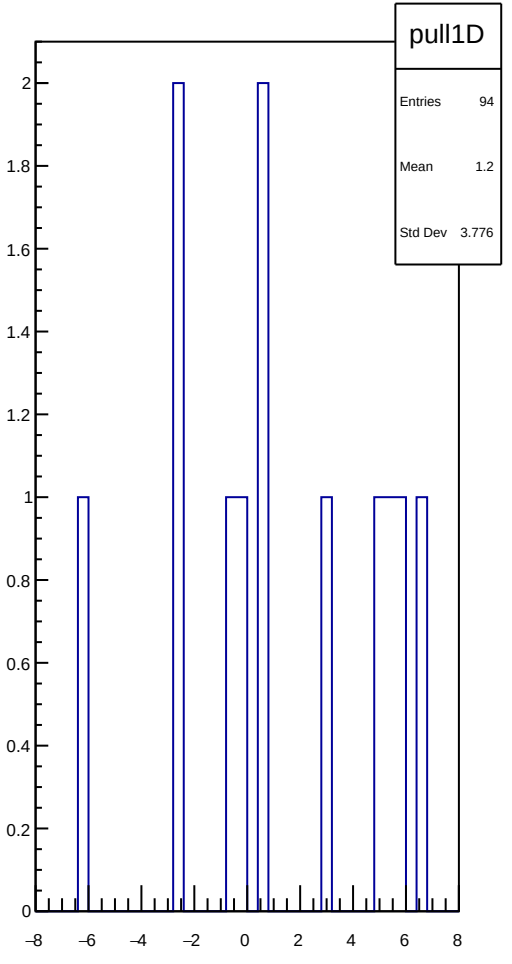

yield_bpm0i02aWS_rms vs run
χ^2 / ndf 5.921e+04 / 93
p0 228.9 ± 0.1737
600
550
500
450
400
350
300
250
200

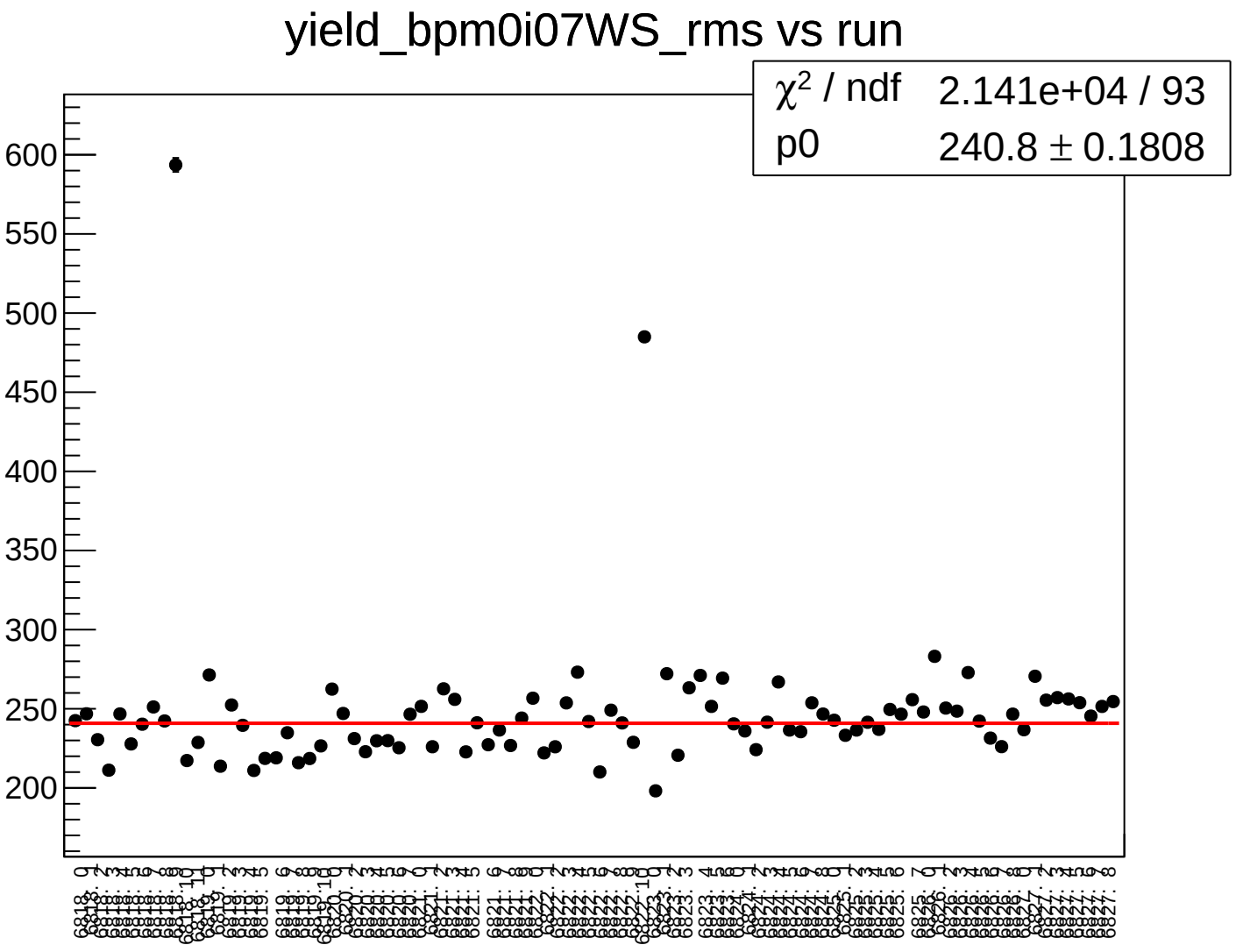

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.566e+05 / 93
p0 1.523e+05 ± 0.2361
152.6
152.5
152.4
152.3
152.2
152.1
152
151.9
151.8
pull
Entries 94
Mean 3156
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

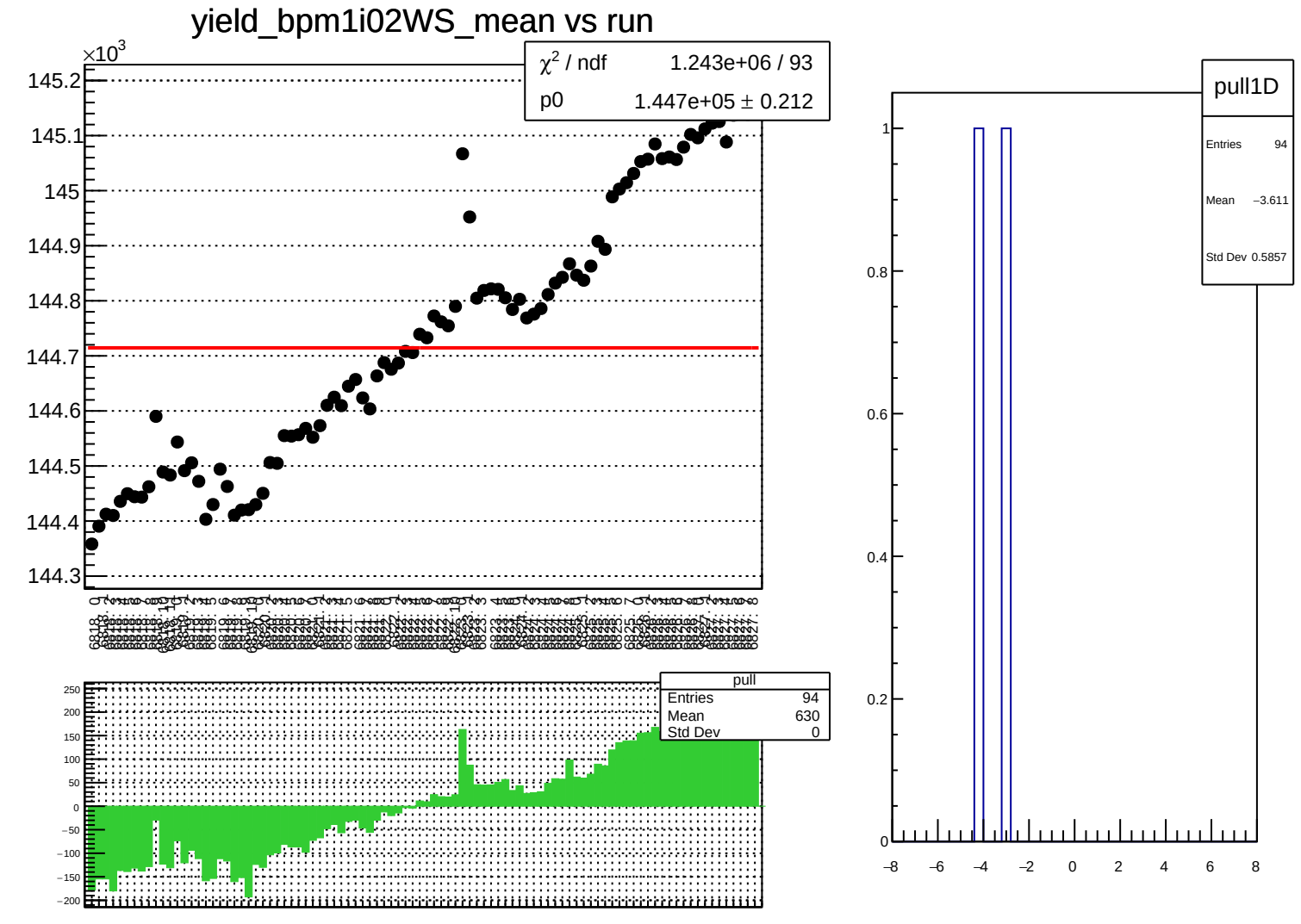

pull1D
Entries 94
Mean −2.222
Std Dev 4.202
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

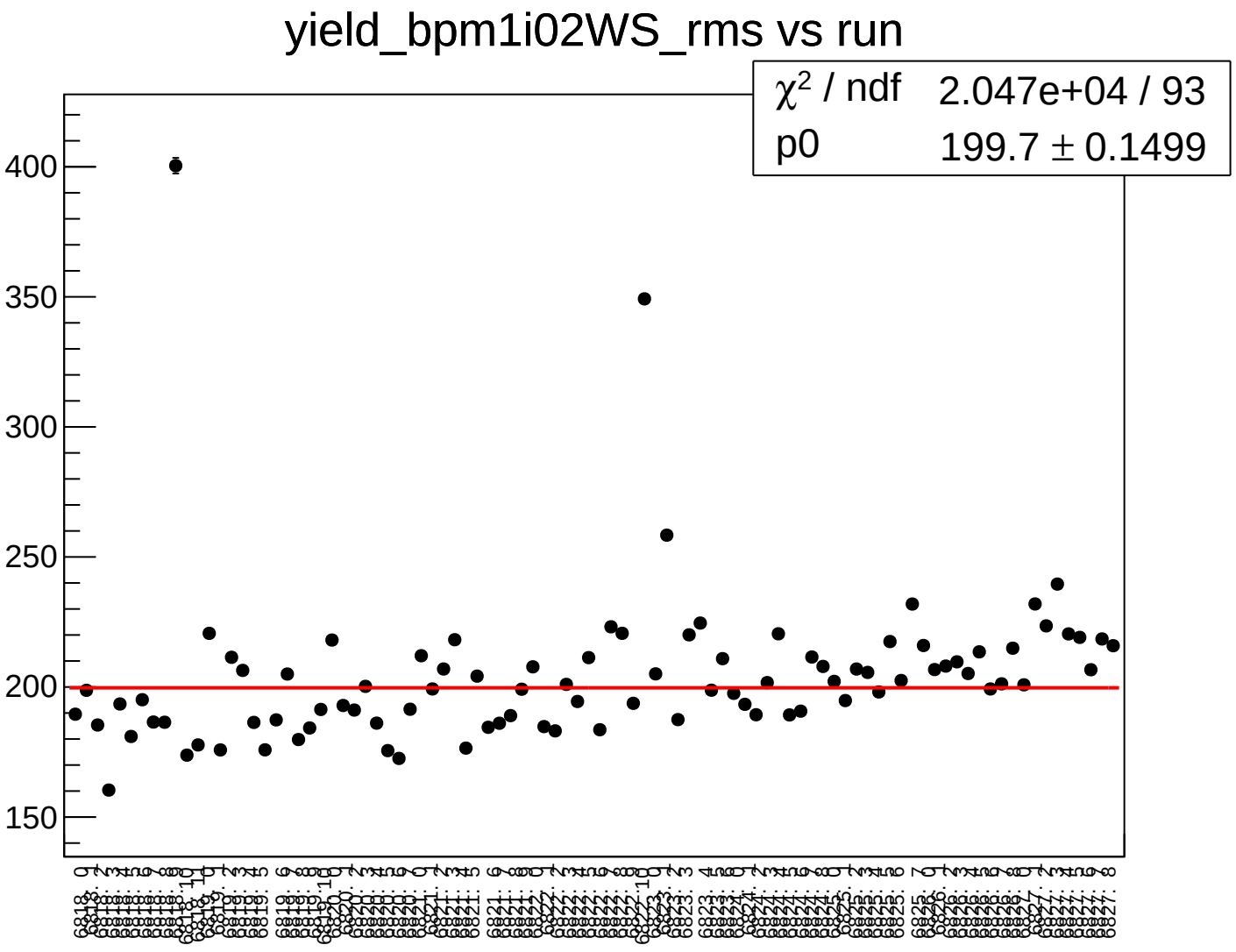

yield_bpm0i05WS_rms vs run
χ² / ndf 2.499e+04 / 93
p0 222.2 ± 0.167
600
500
400
300
200

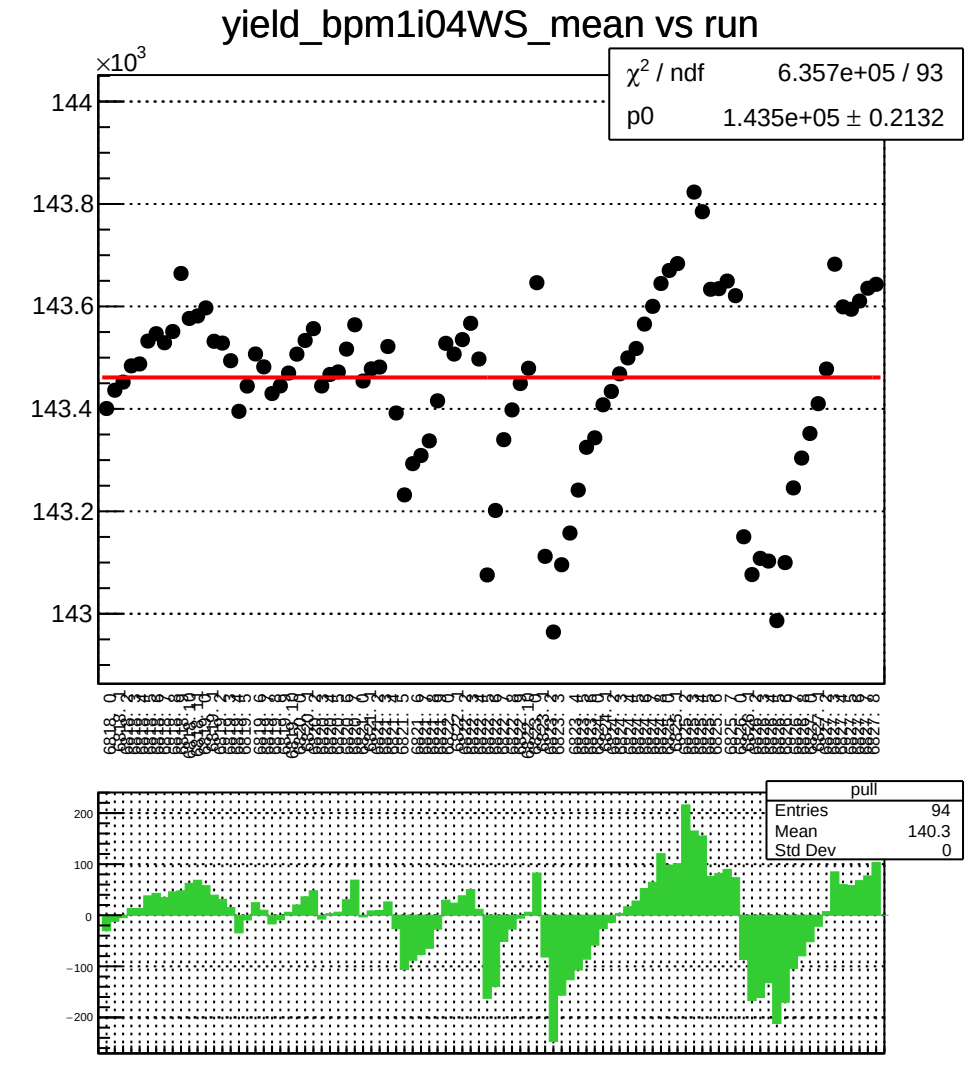

yield_bpm0i07WS_mean vs run
×10^3
155.1
155
154.9
154.8
154.7
154.6
154.5
χ² / ndf 2.278e+05 / 93
p0 1.549e+05 ± 0.2557
pull
Entries 94
Mean 796.3
Std Dev 0
50
0
−50
−100
−150

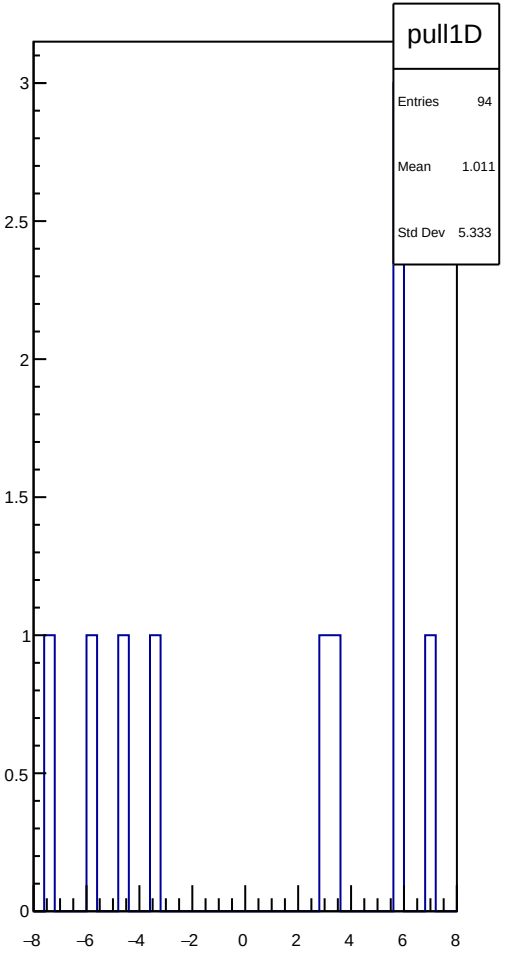

pull1D
Entries 94
Mean 1.2
Std Dev 3.776
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

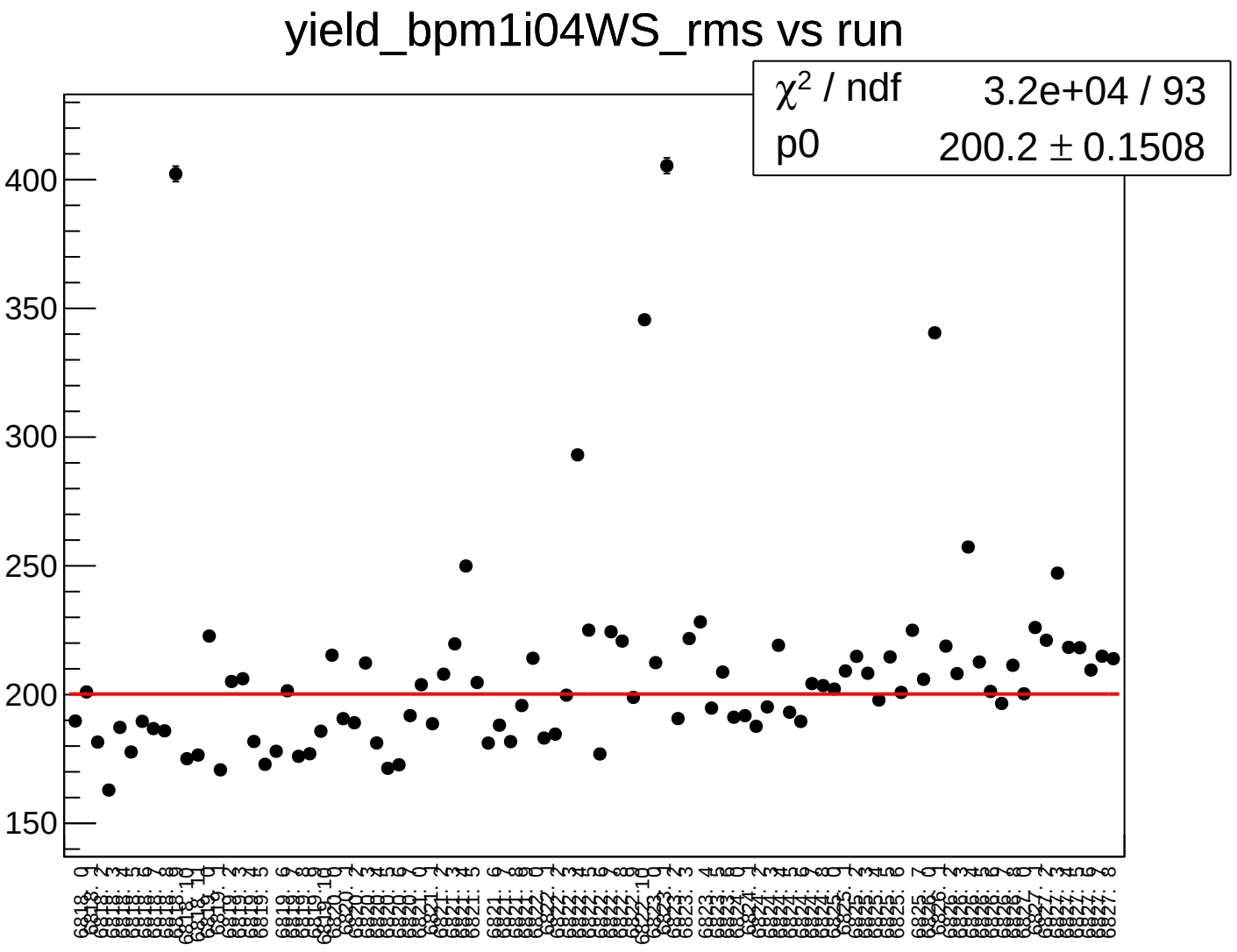

yield_bpm0i07WS_rms vs run
χ² / ndf 2.141e+04 / 93
p0 240.8 ± 0.1808
600
550
500
450
400
350
300
250
200

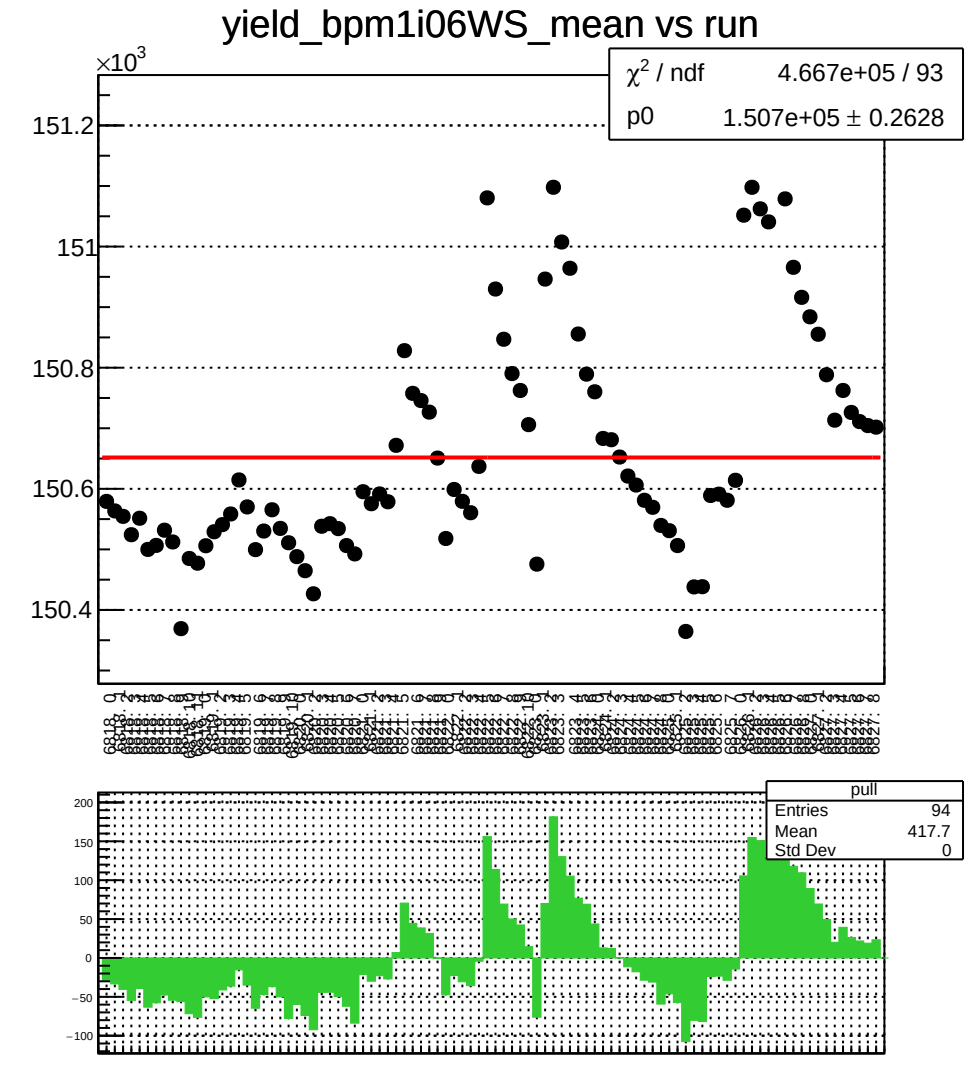

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.243e+06 / 93
p0 1.447e+05 ± 0.212
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
144.3
pull
Entries 94
Mean 630
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 94
Mean −3.611
Std Dev 0.5857
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

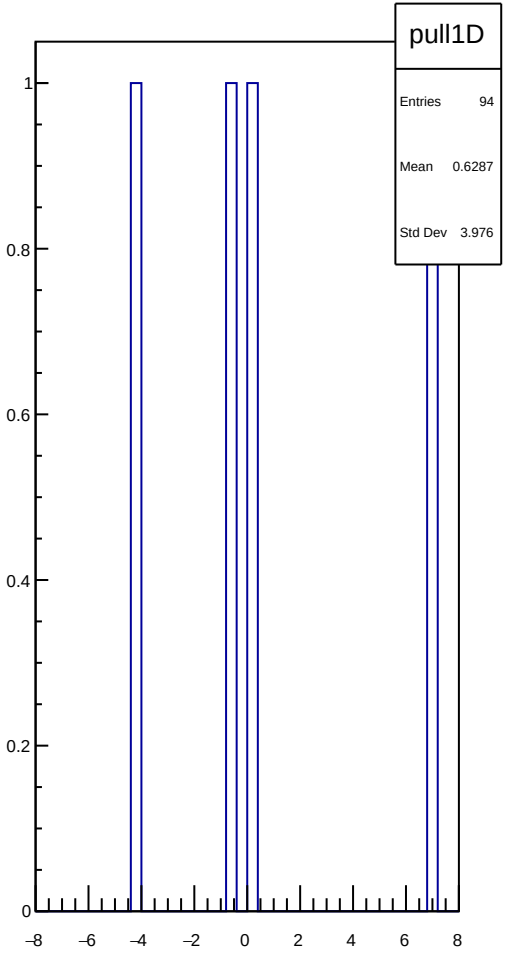

yield_bpm1i02WS_rms vs run
χ² / ndf 2.047e+04 / 93
p0 199.7 ± 0.1499
400
350
300
250
200
150

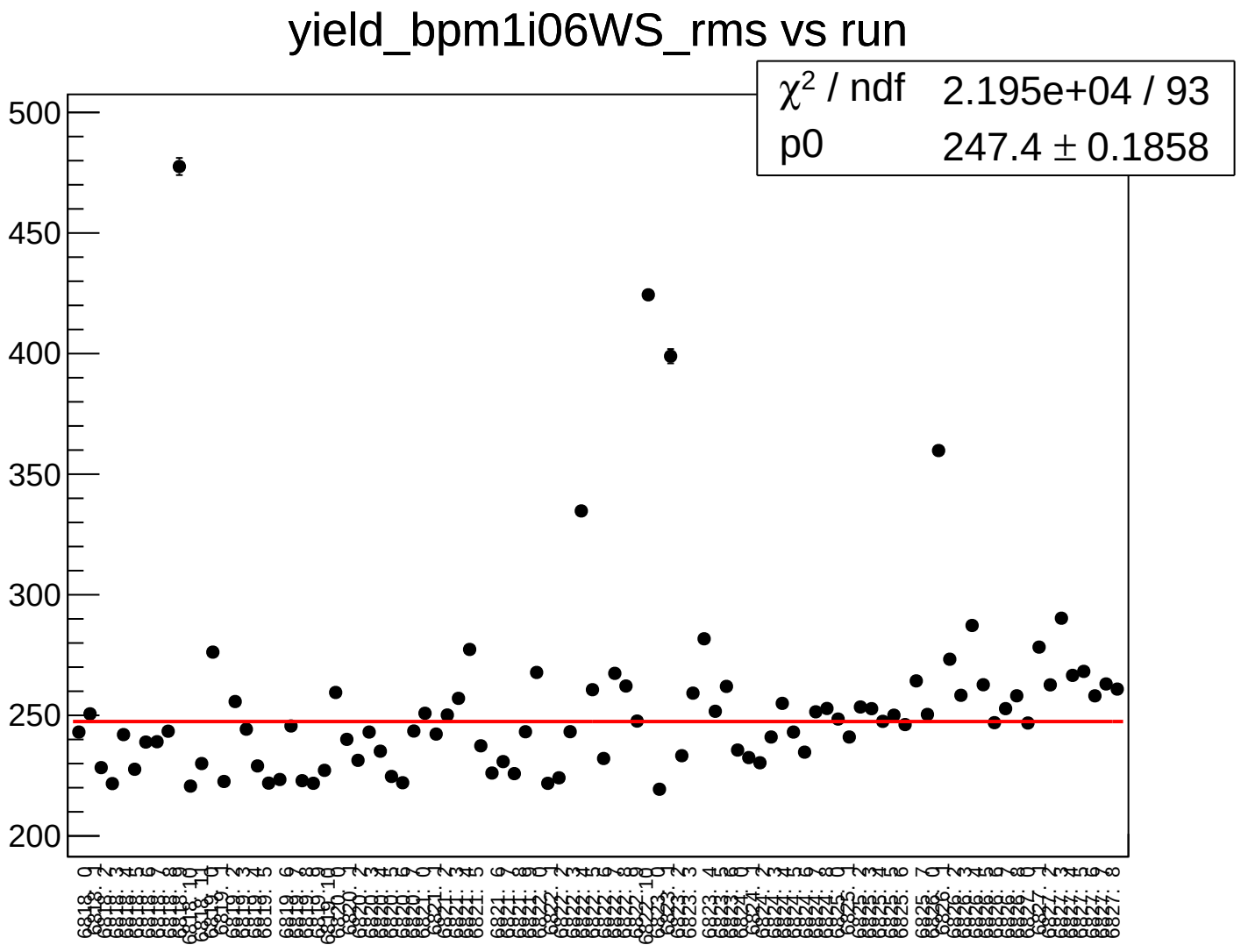

yield_bpm1i04WS_mean vs run
×10^3
144
143.8
143.6
143.4
143.2
143
χ² / ndf 6.357e+05 / 93
p0 1.435e+05 ± 0.2132
pull
Entries 94
Mean 140.3
Std Dev 0
200
100
0
−100
−200

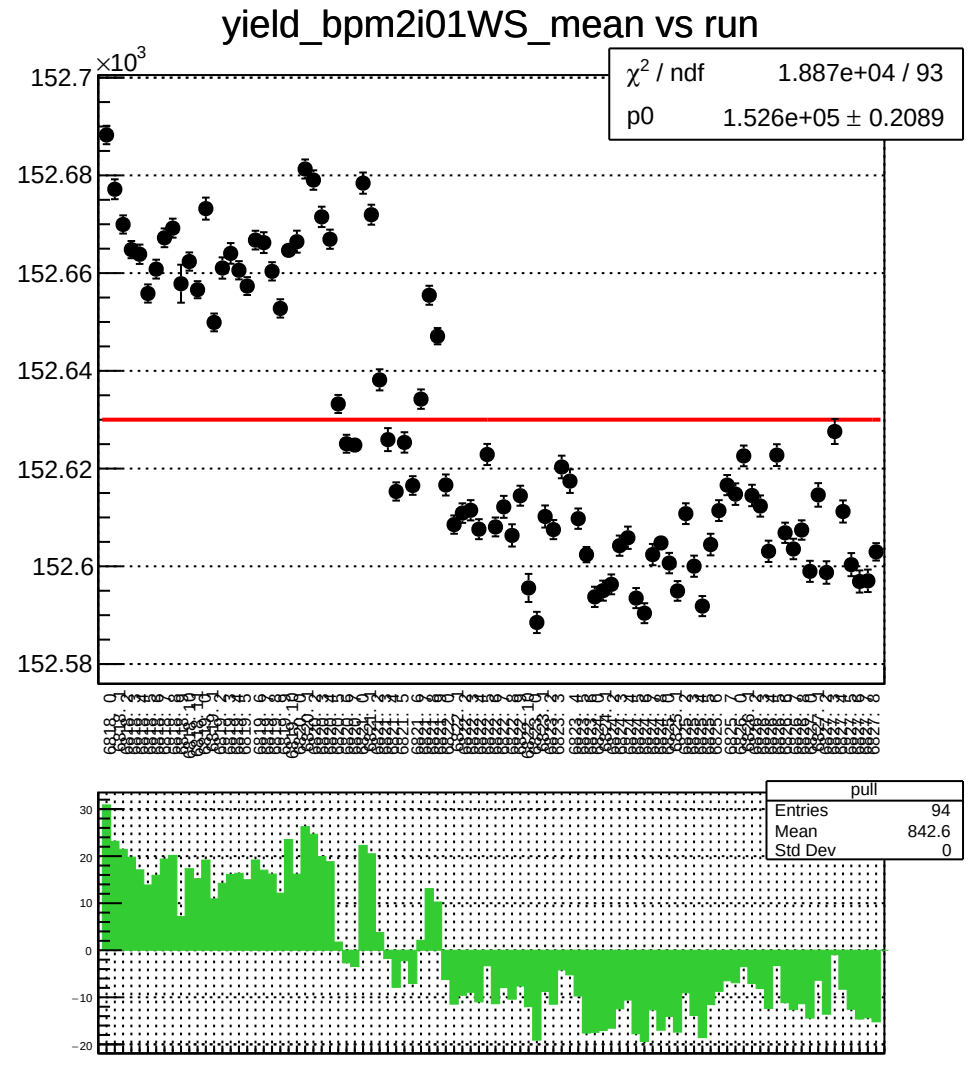

pull1D
Entries 94
Mean 1.011
Std Dev 5.333
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

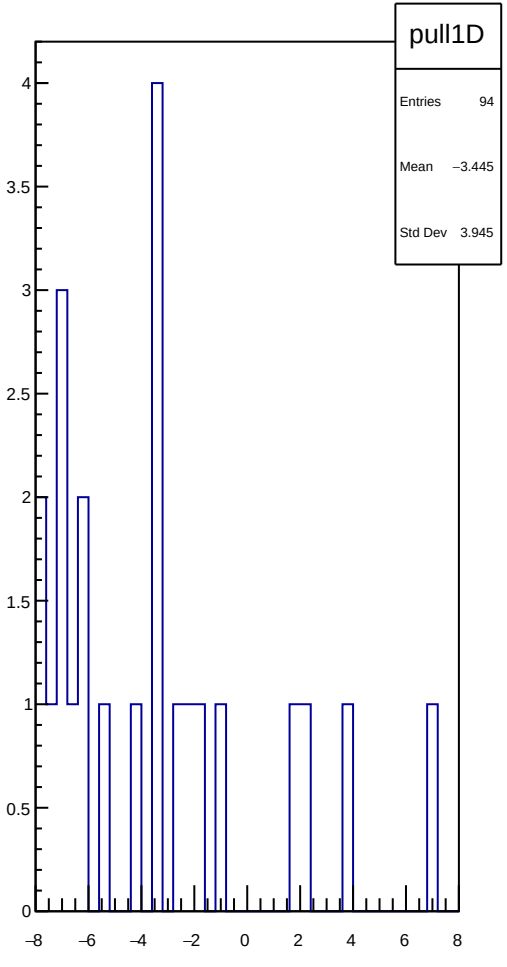

yield_bpm1i04WS_rms vs run
χ² / ndf 3.2e+04 / 93
p0 200.2 ± 0.1508
400
350
300
250
200
150

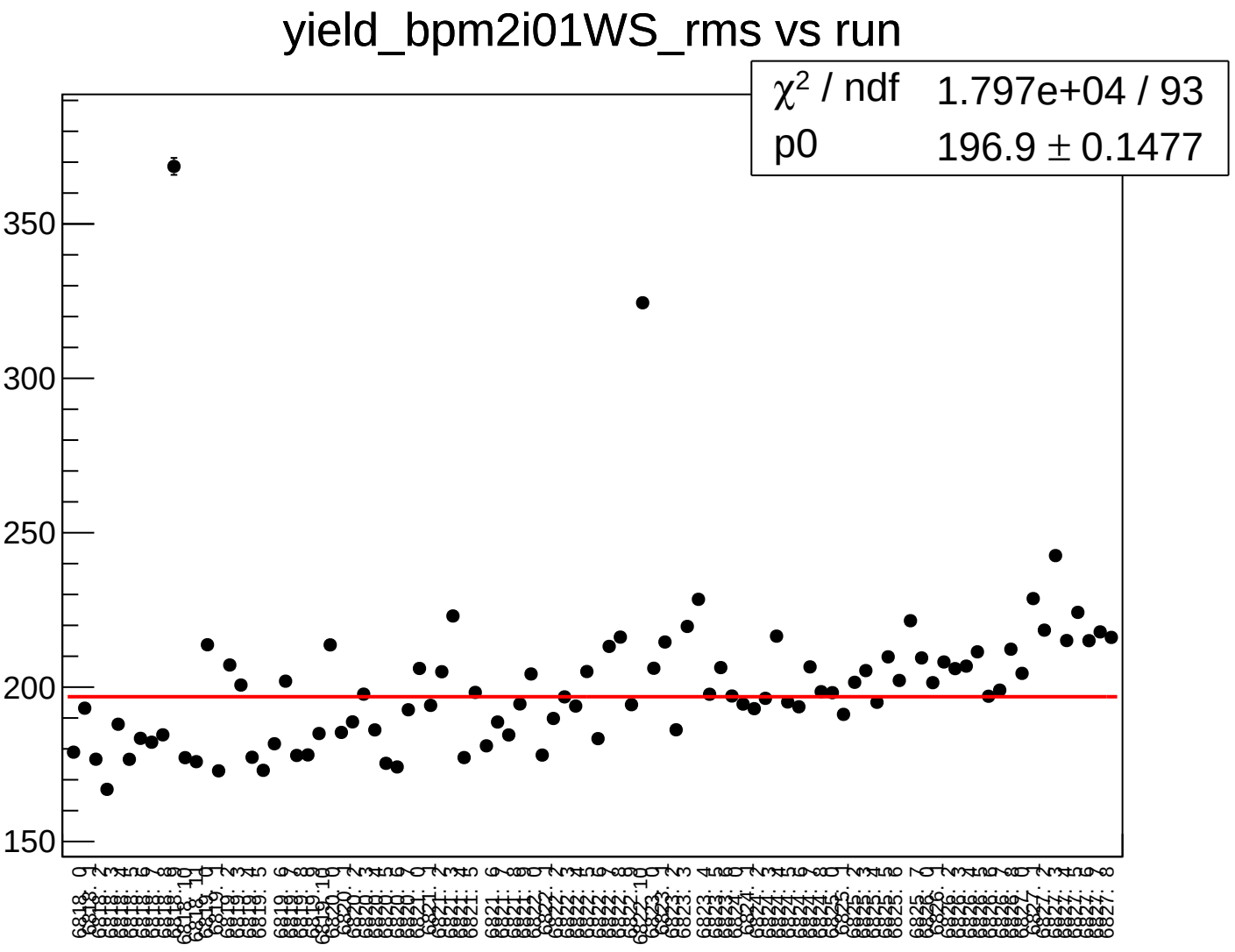

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.667e+05 / 93
p0 1.507e+05 ± 0.2628
151.2
151
150.8
150.6
150.4
pull
Entries 94
Mean 417.7
Std Dev 0
200
150
100
50
0
−50
−100

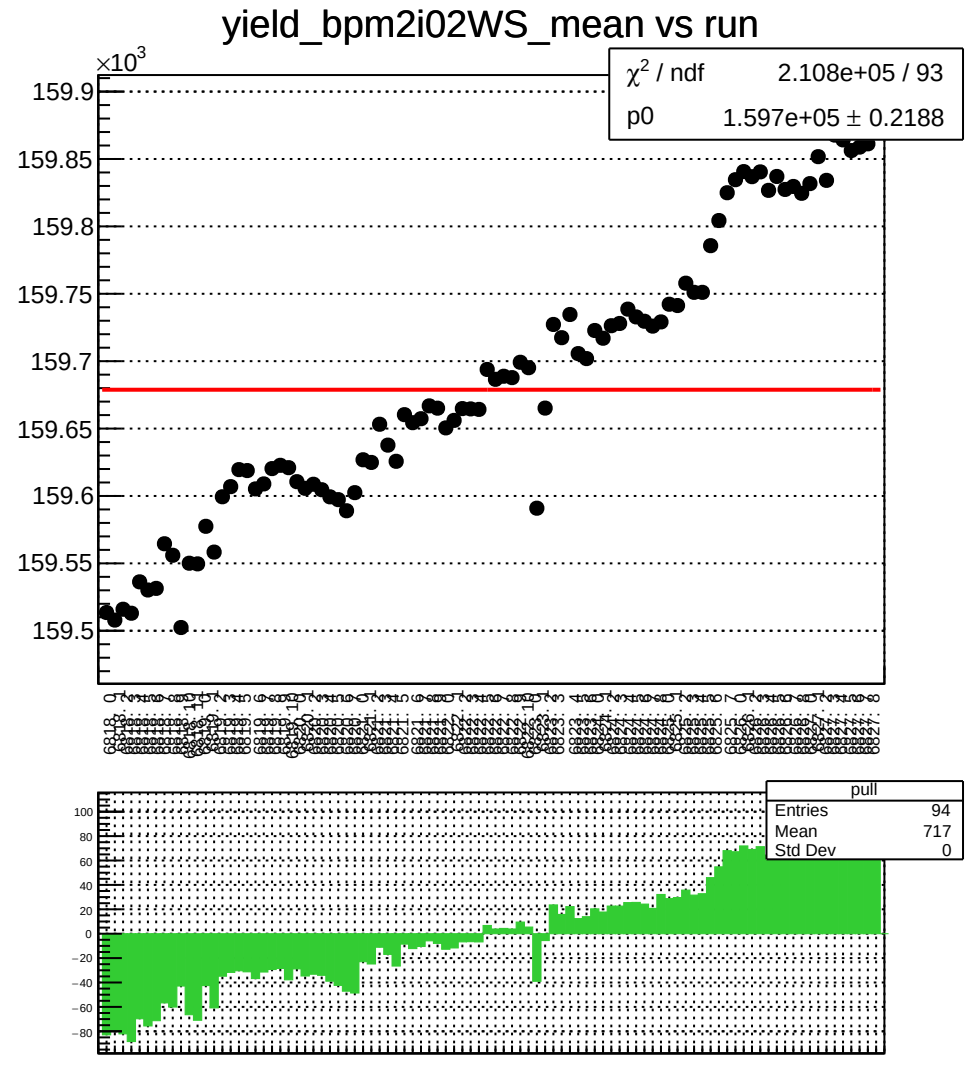

pull1D
Entries 94
Mean 0.6287
Std Dev 3.976
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

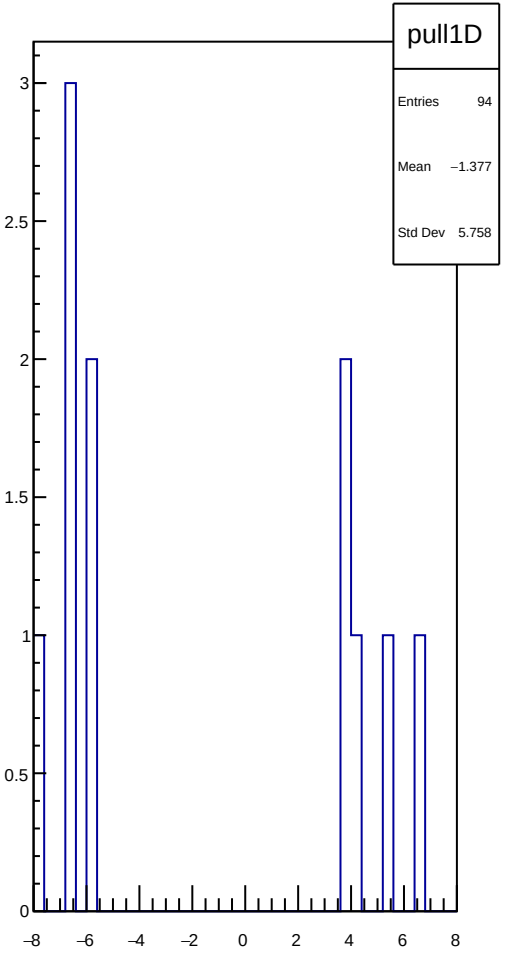

yield_bpm1i06WS_rms vs run
χ² / ndf 2.195e+04 / 93
p0 247.4 ± 0.1858
500
450
400
350
300
250
200

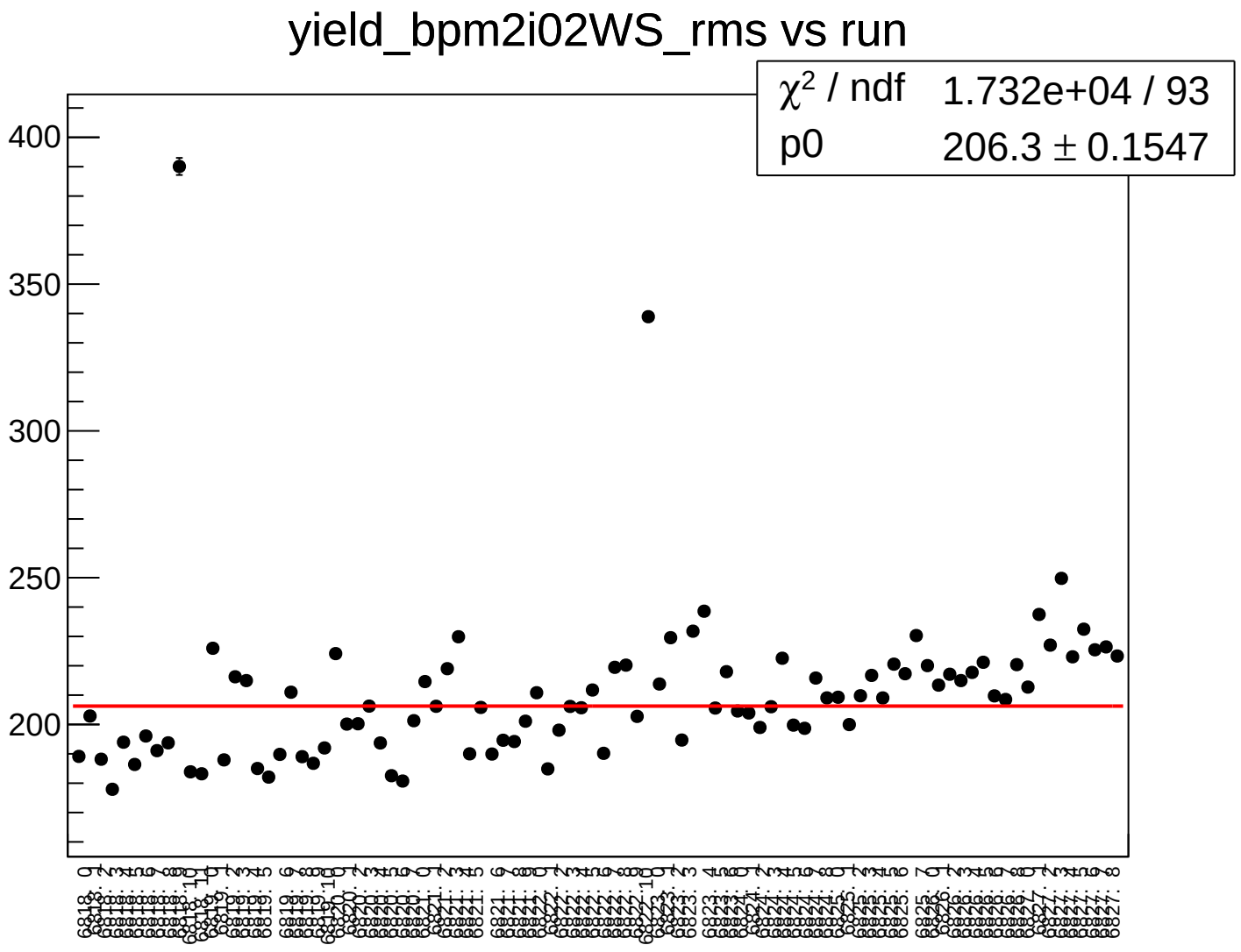

yield_bpm2i01WS_mean vs run
×10^3
152.7
152.68
152.66
152.64
152.62
152.6
152.58
χ² / ndf 1.887e+04 / 93
p0 1.526e+05 ± 0.2089
pull
Entries 94
Mean 842.6
Std Dev 0
30
20
10
0
−10
−20

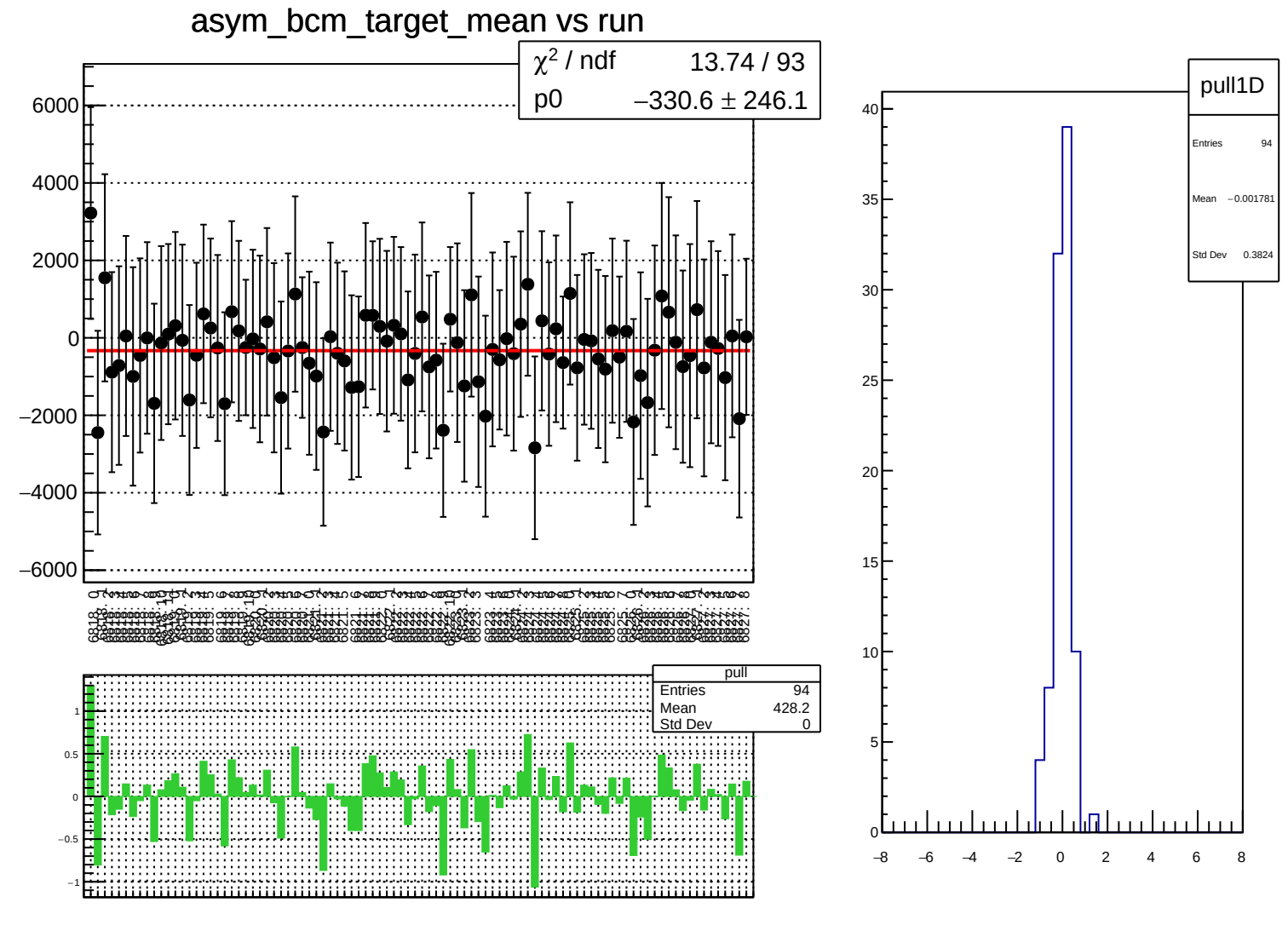

pull1D
Entries 94
Mean −3.445
Std Dev 3.945
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

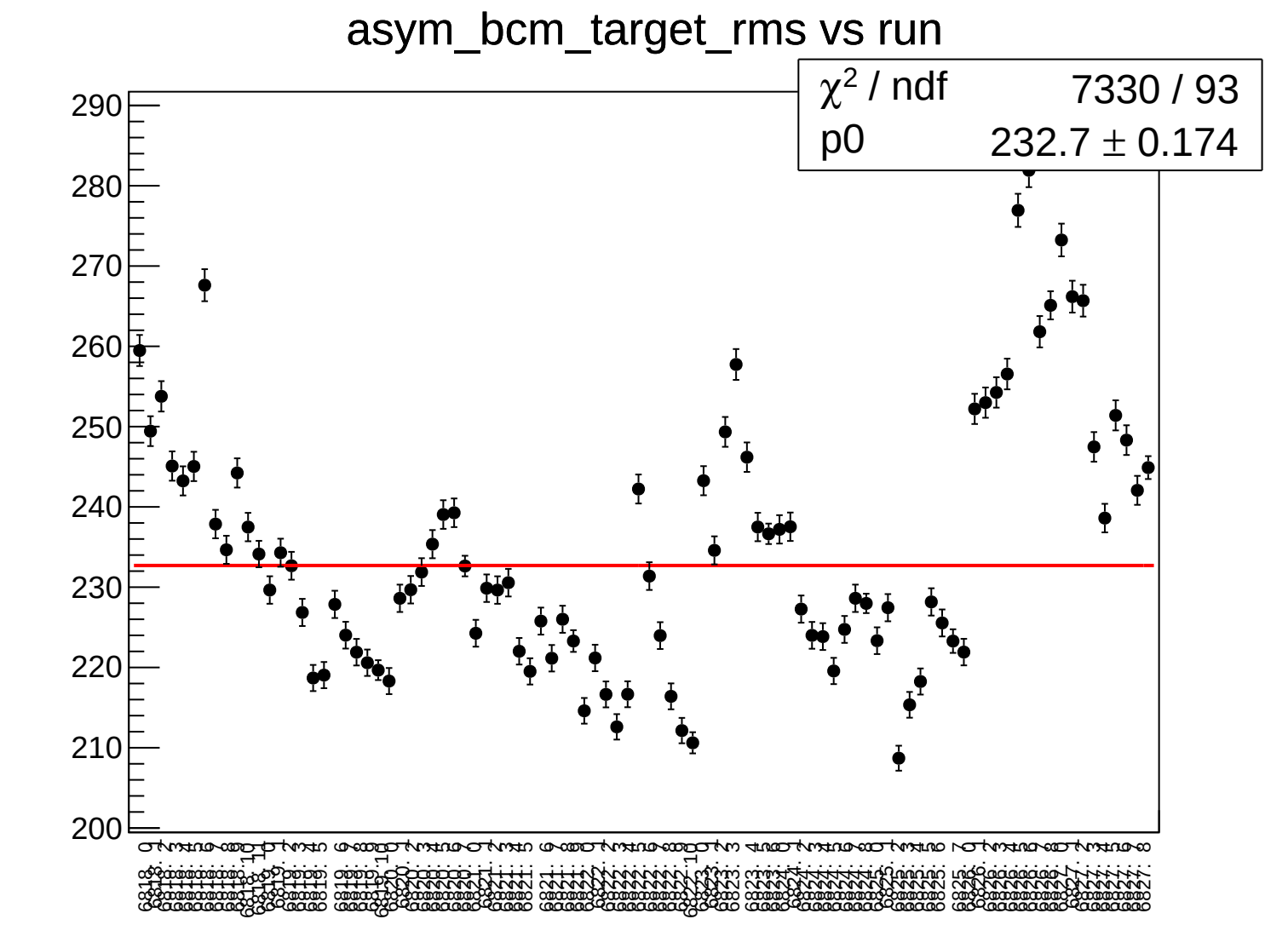

yield_bpm2i01WS_rms vs run
χ² / ndf 1.797e+04 / 93
p0 196.9 ± 0.1477
350
300
250
200
150

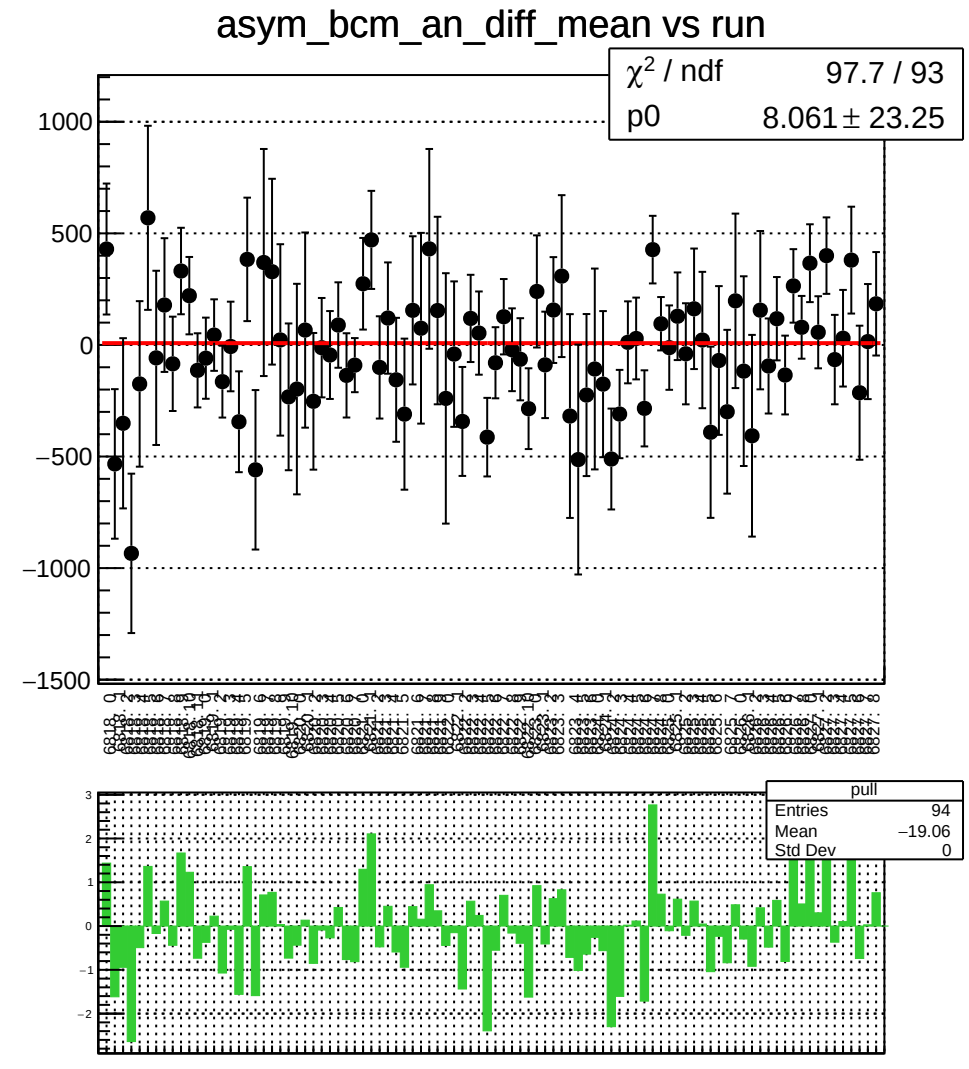

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.108e+05 / 93
p0 1.597e+05 ± 0.2188
159.9
159.85
159.8
159.75
159.7
159.65
159.6
159.55
159.5
pull
Entries 94
Mean 717
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

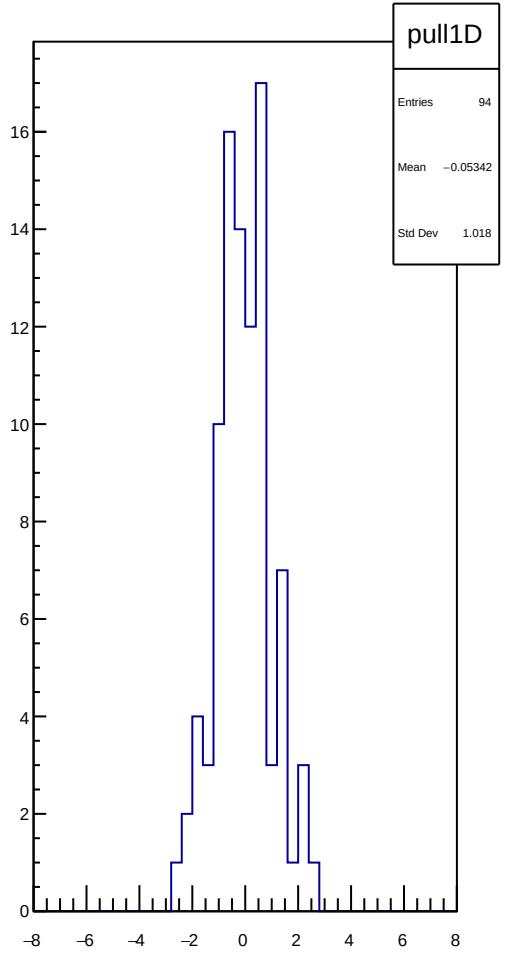

pull1D
Entries 94
Mean −1.377
Std Dev 5.758
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

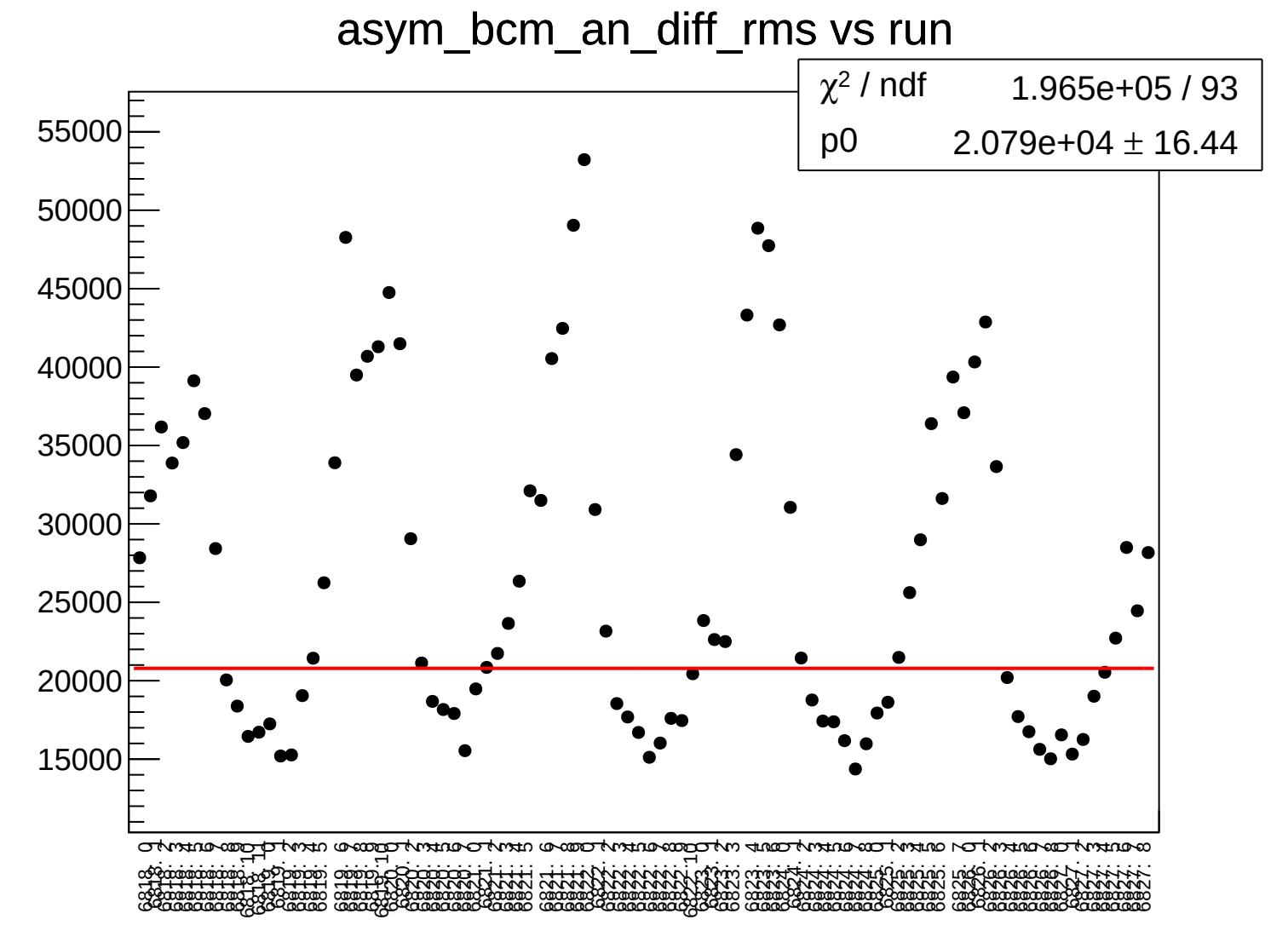

yield_bpm2i02WS_rms vs run
χ² / ndf 1.732e+04 / 93
p0 206.3 ± 0.1547
400
350
300
250
200

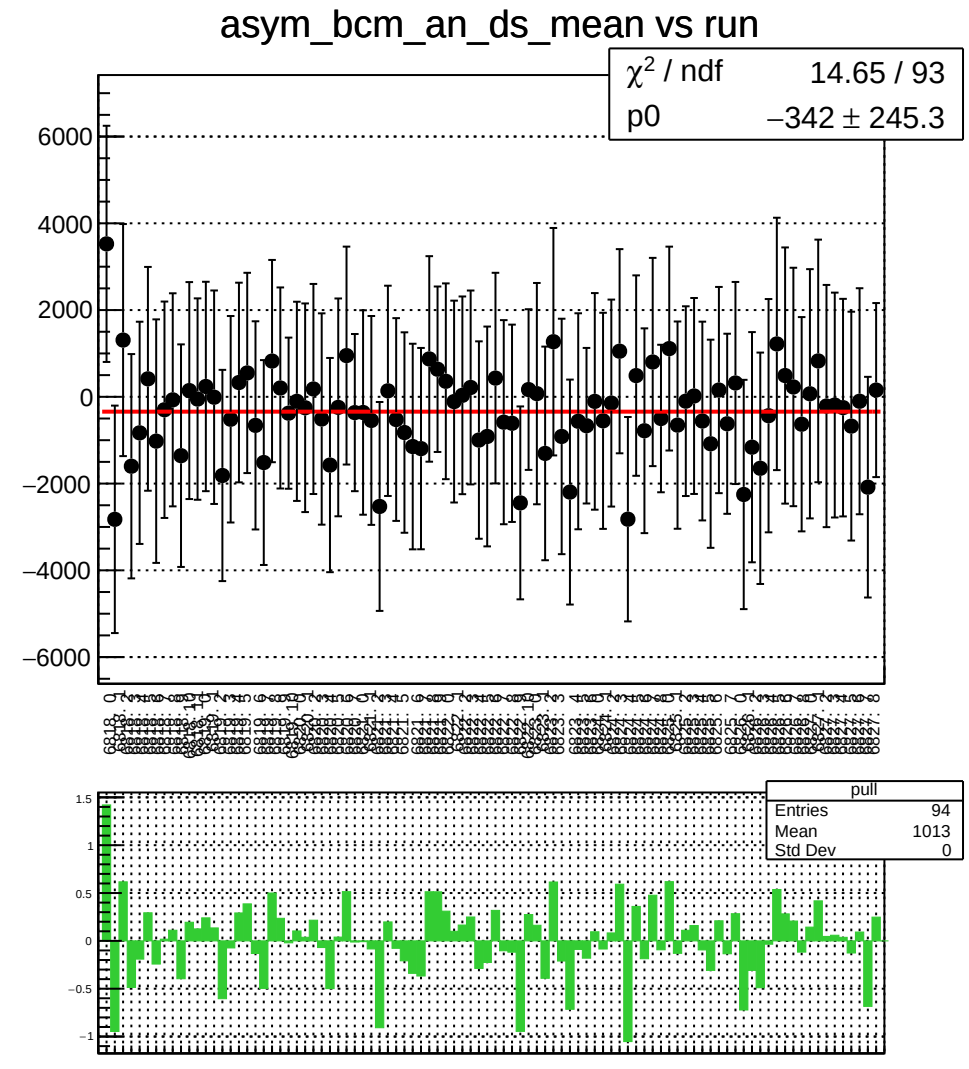

asym_bcm_target_mean vs run
χ² / ndf 13.74 / 93
p0 −330.6 ± 246.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 428.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001781
Std Dev 0.3824
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

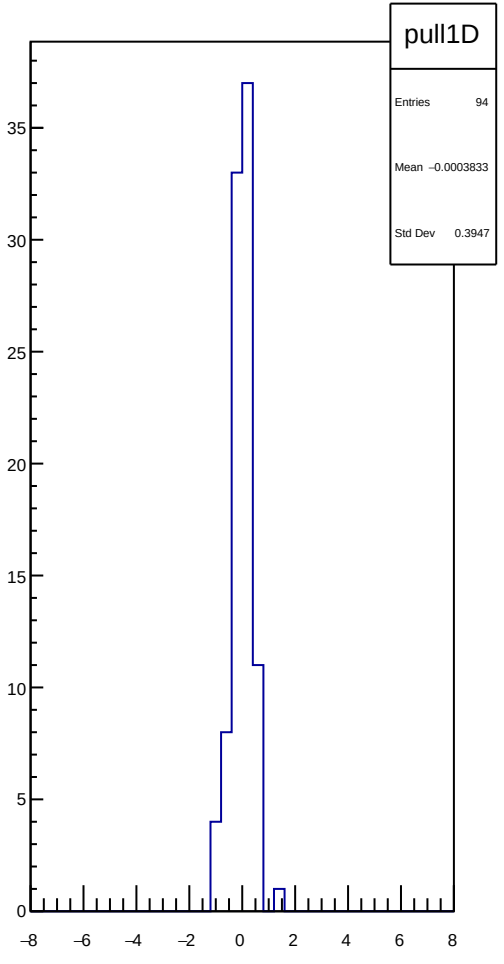

asym_bcm_target_rms vs run
χ² / ndf 7330 / 93
p0 232.7 ± 0.174
290
280
270
260
250
240
230
220
210
200

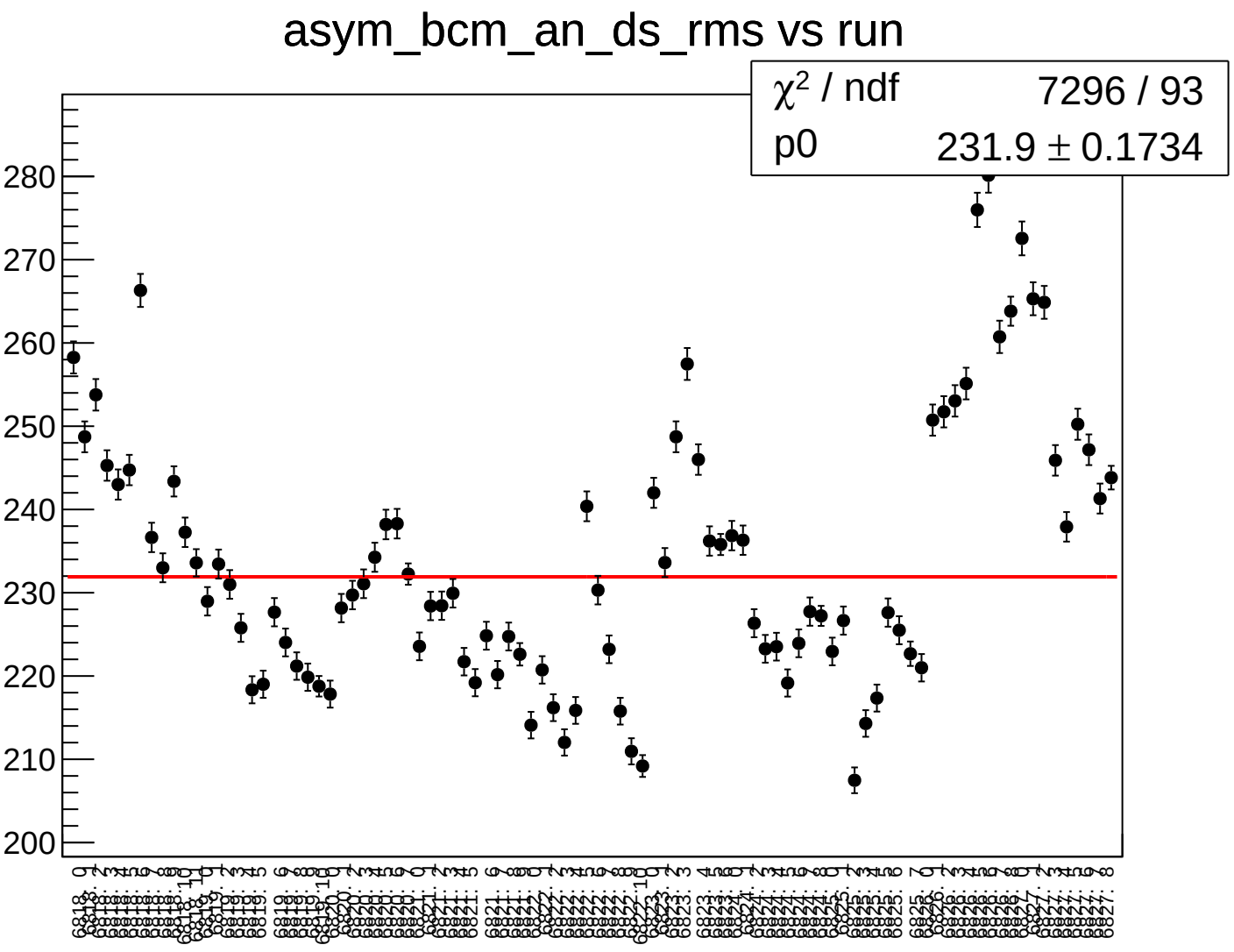

asym_bcm_an_diff_mean vs run
χ² / ndf 97.7 / 93
p0 8.061 ± 23.25
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean −19.06
Std Dev 0
3
2
1
0
−1
−2

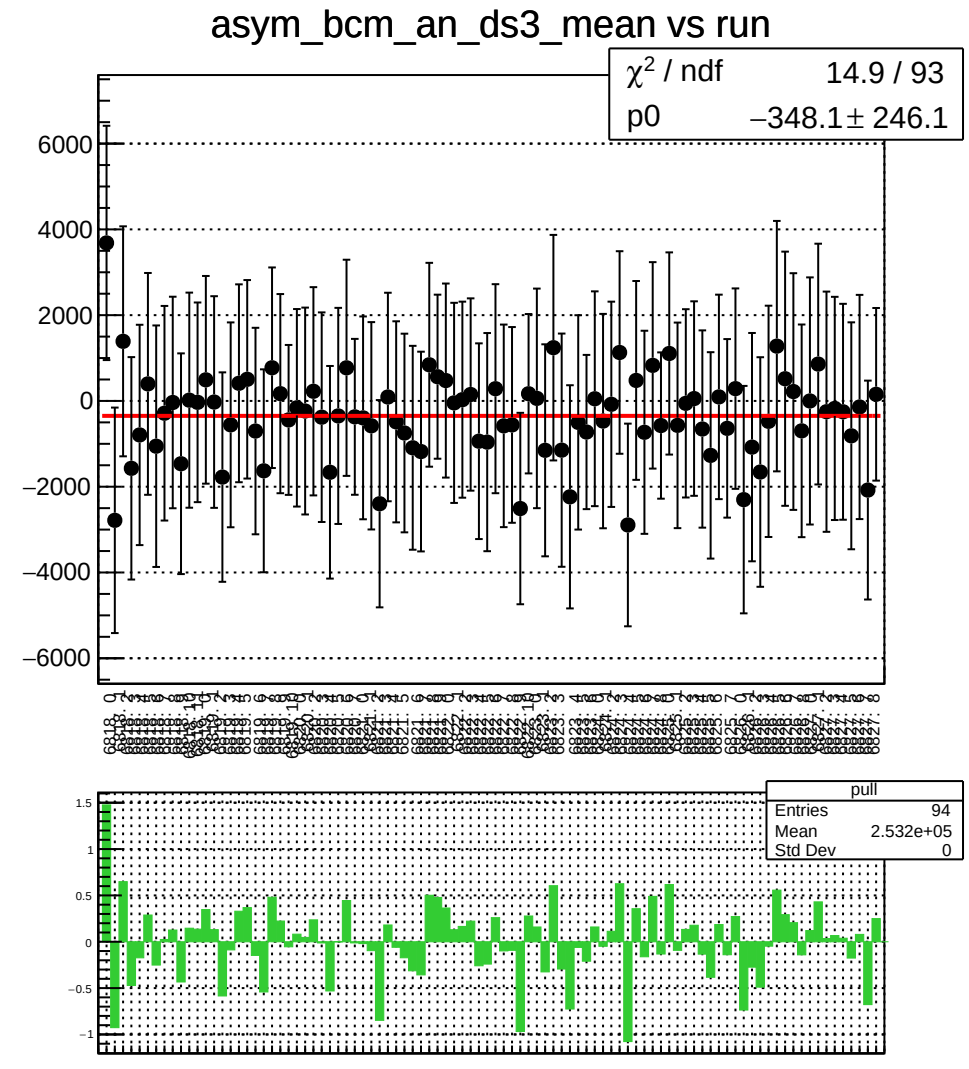

pull1D
Entries 94
Mean −0.05342
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

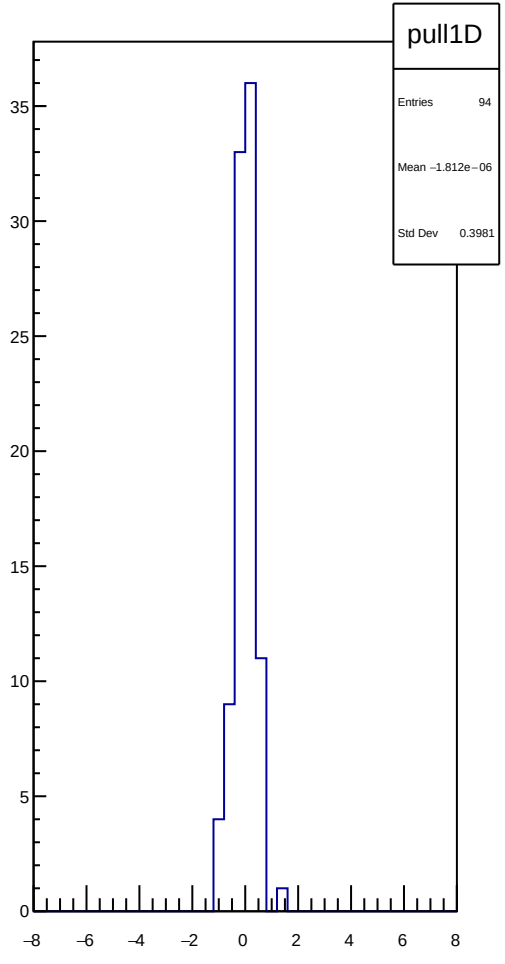

asym_bcm_an_diff_rms vs run
χ² / ndf 1.965e+05 / 93
p0 2.079e+04 ± 16.44
55000
50000
45000
40000
35000
30000
25000
20000
15000

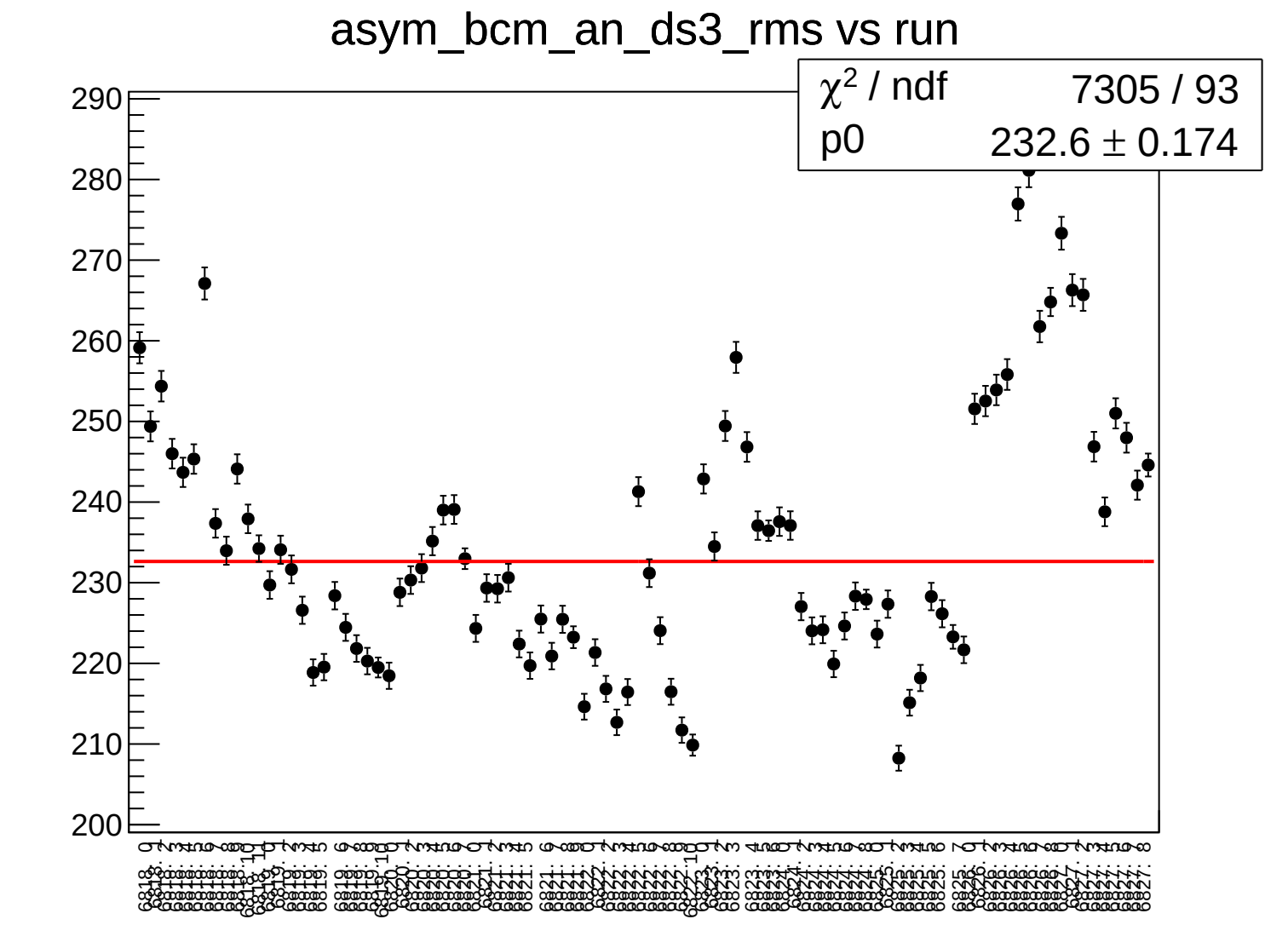

asym_bcm_an_ds_mean vs run
χ² / ndf 14.65 / 93
p0 −342 ± 245.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1013
Std Dev 0
1.5
1
0.5
0
−0.5
−1

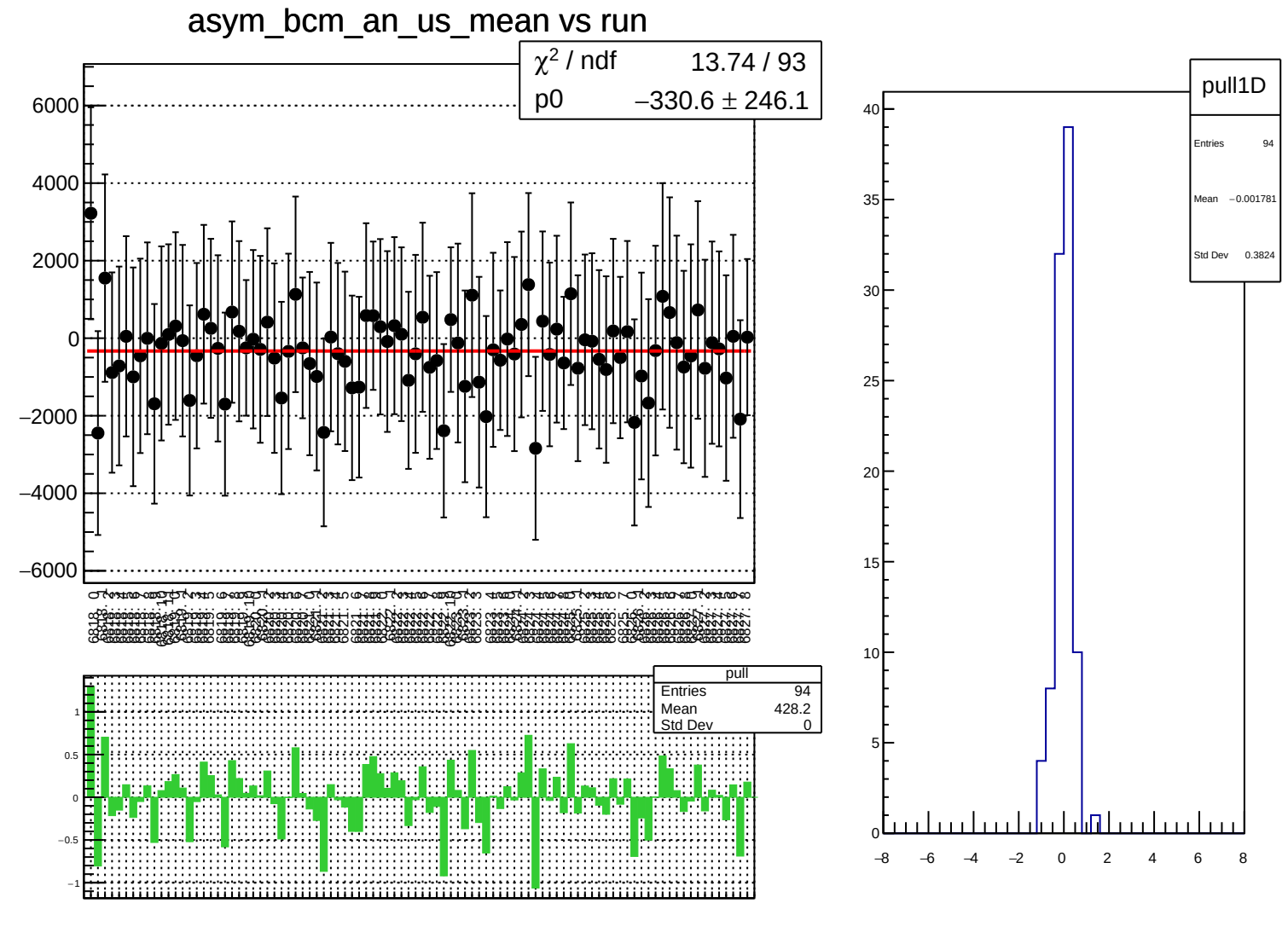

pull1D
Entries 94
Mean −0.0003833
Std Dev 0.3947
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

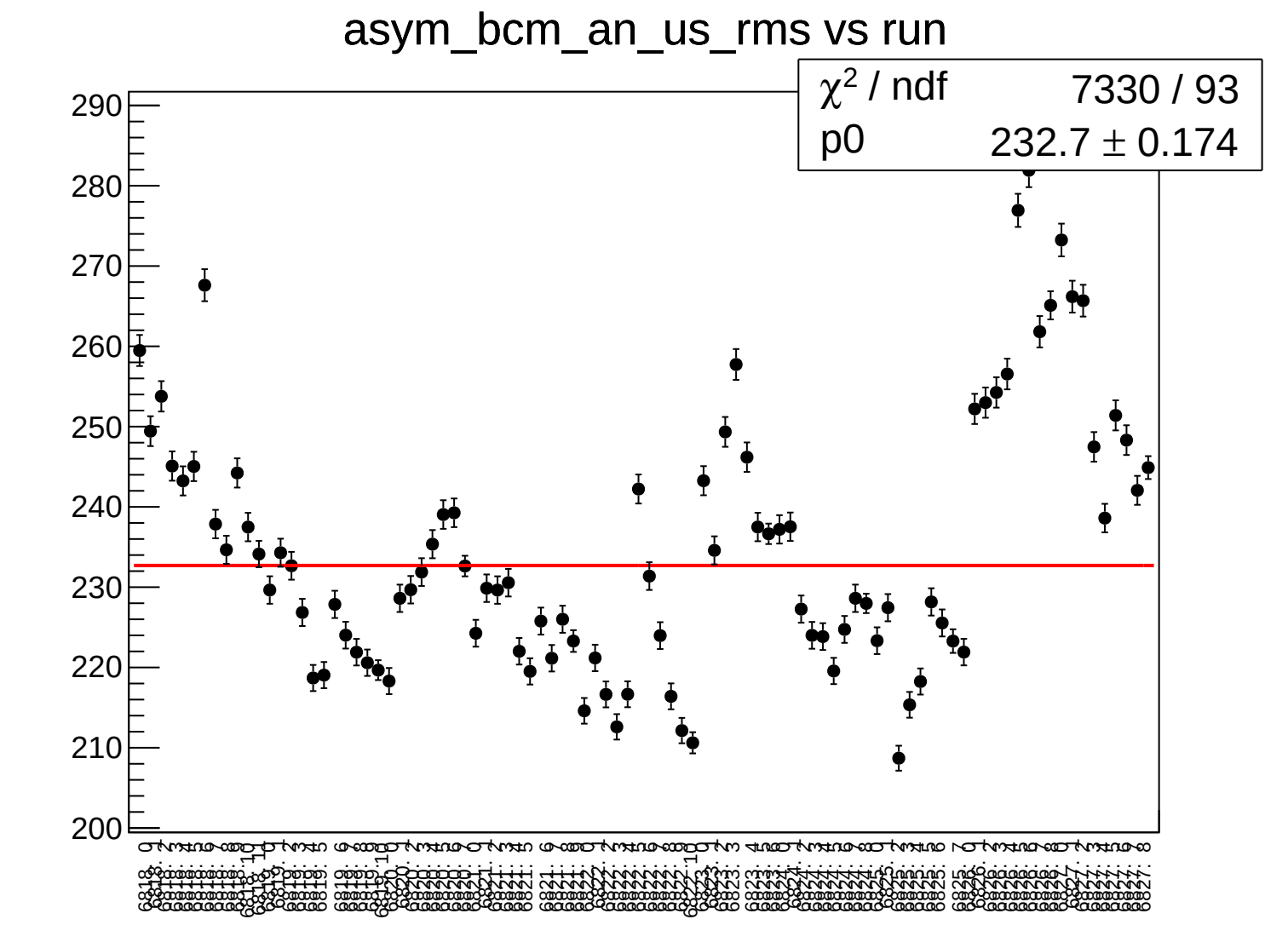

asym_bcm_an_ds_rms vs run
χ² / ndf 7296 / 93
p0 231.9 ± 0.1734
280
270
260
250
240
230
220
210
200

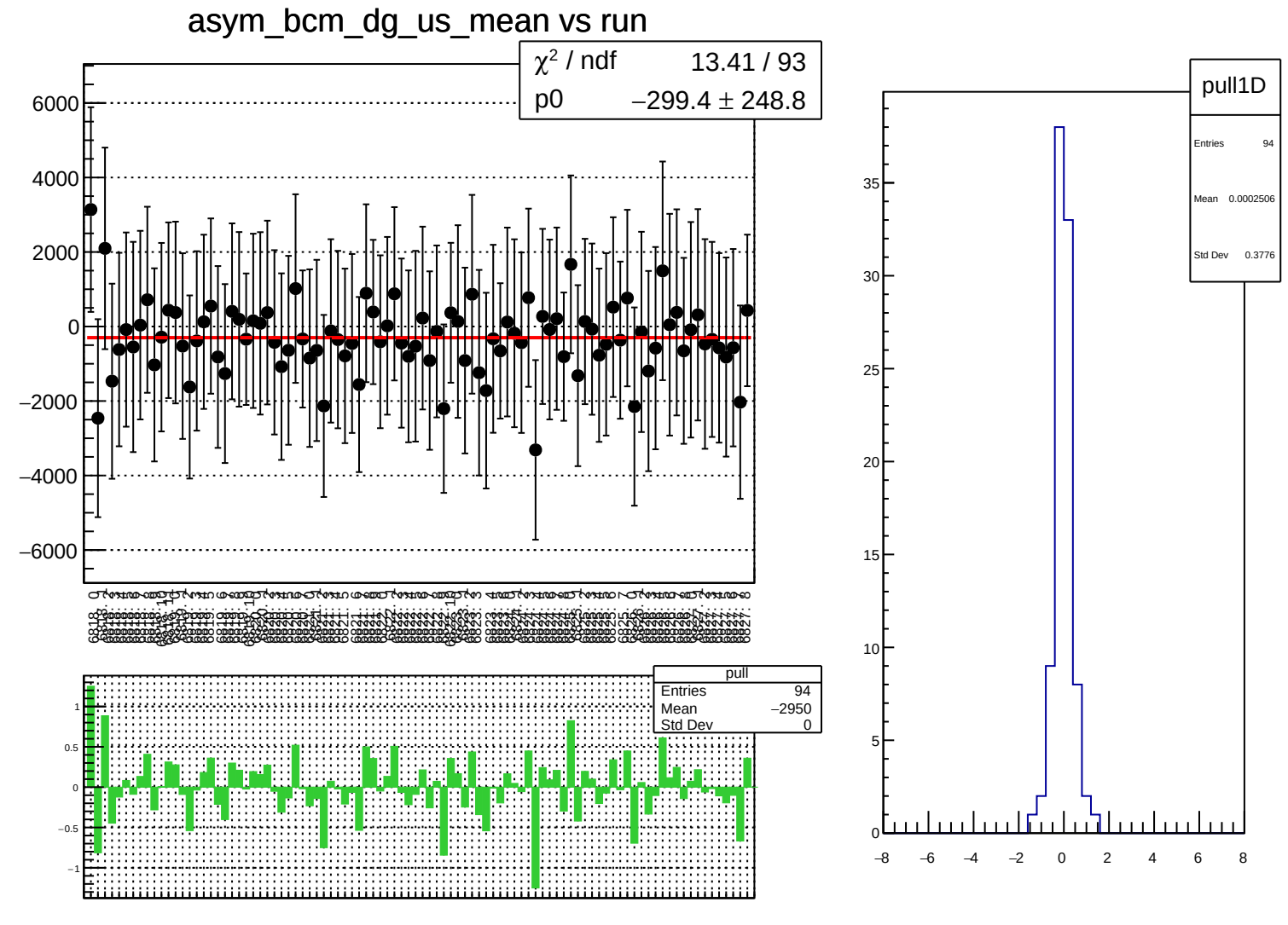

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.9 / 93
p0 −348.1 ± 246.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 2.532e+05
Std Dev 0
1.5
1
0.5
0
−0.5
−1


pull1D
Entries 94
Mean −1.812e−06
Std Dev 0.3981
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_ds3_rms vs run
χ^2 / ndf 7305 / 93
p0 232.6 ± 0.174
290
280
270
260
250
240
230
220
210
200


asym_bcm_an_us_mean vs run
χ² / ndf 13.74 / 93
p0 −330.6 ± 246.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 428.2
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001781
Std Dev 0.3824
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 7330 / 93
p0 232.7 ± 0.174
290
280
270
260
250
240
230
220
210
200


asym_bcm_dg_us_mean vs run
χ² / ndf 13.41 / 93
p0 −299.4 ± 248.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −2950
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.0002506
Std Dev 0.3776
35
30
25
20
15
10
5
0
−8
−6
−4
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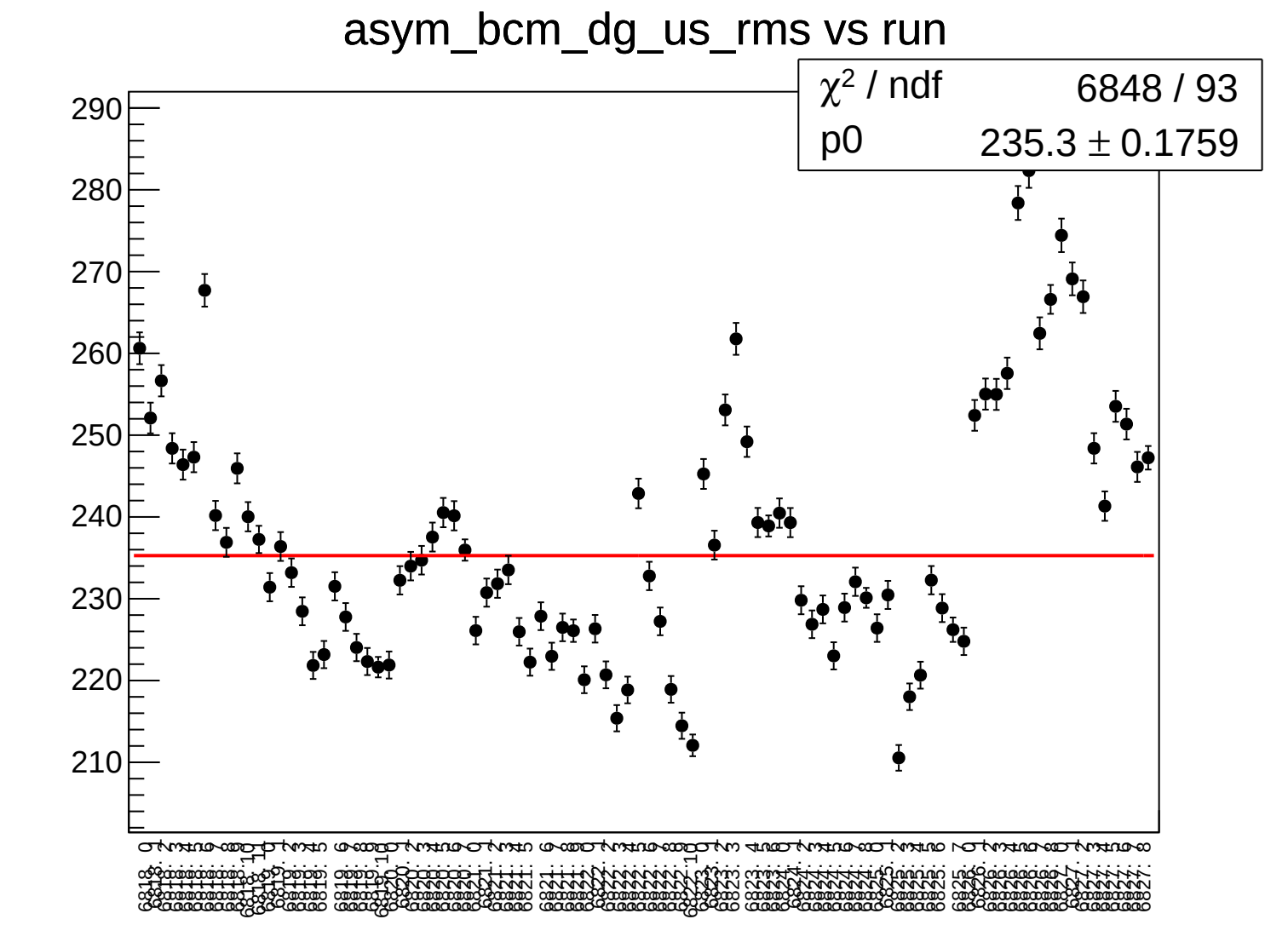
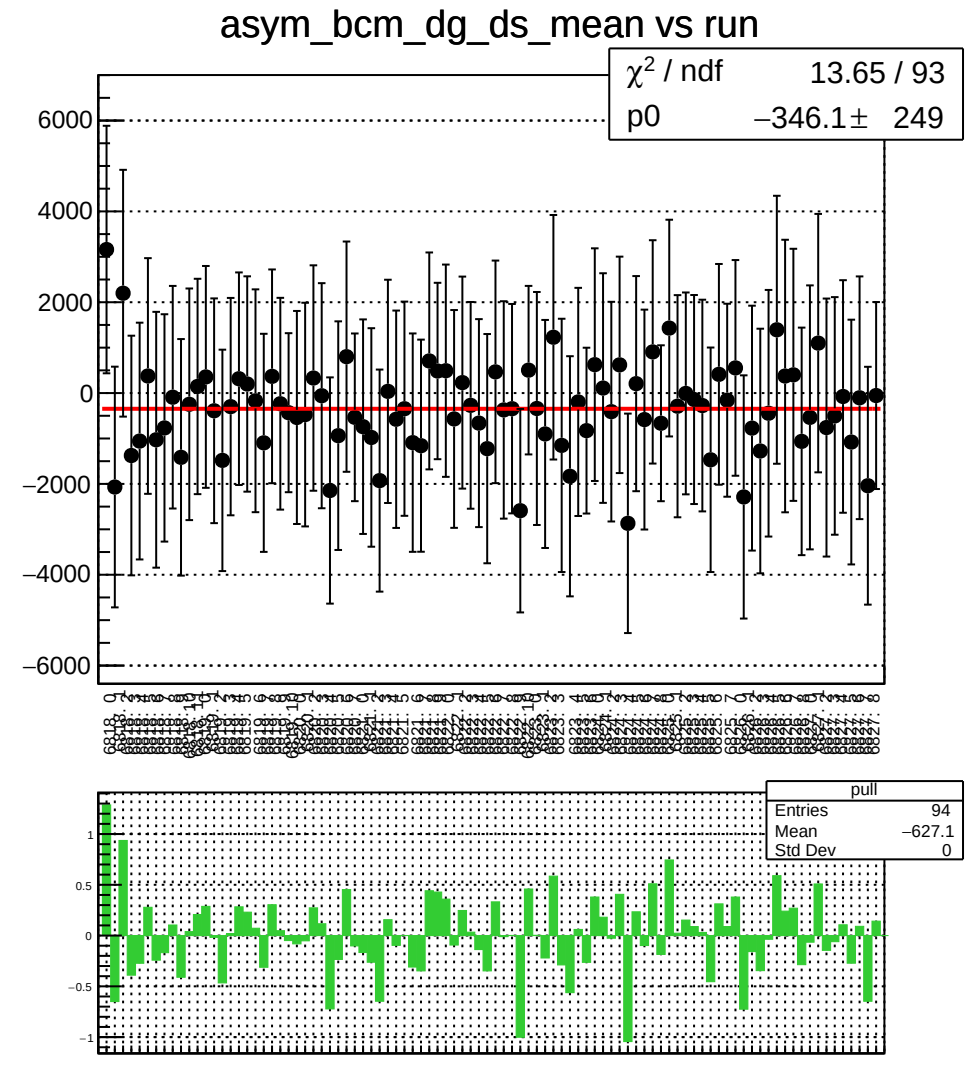
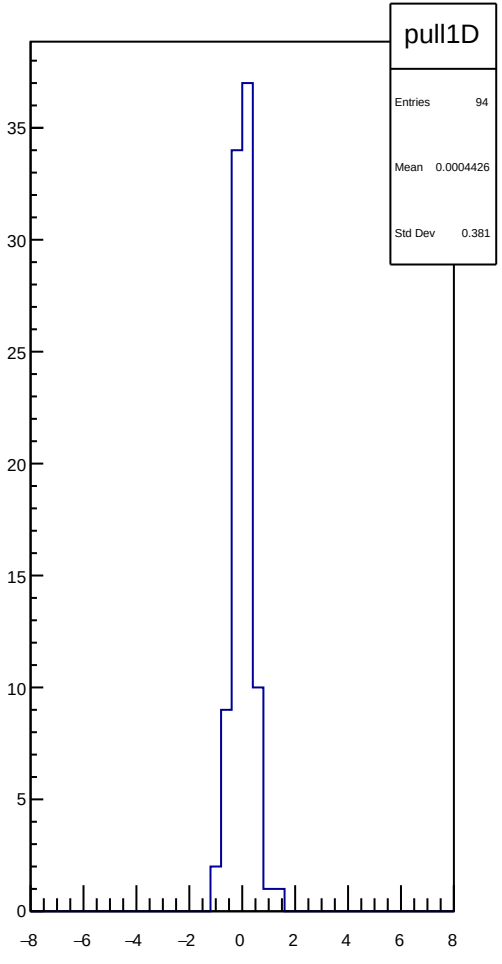
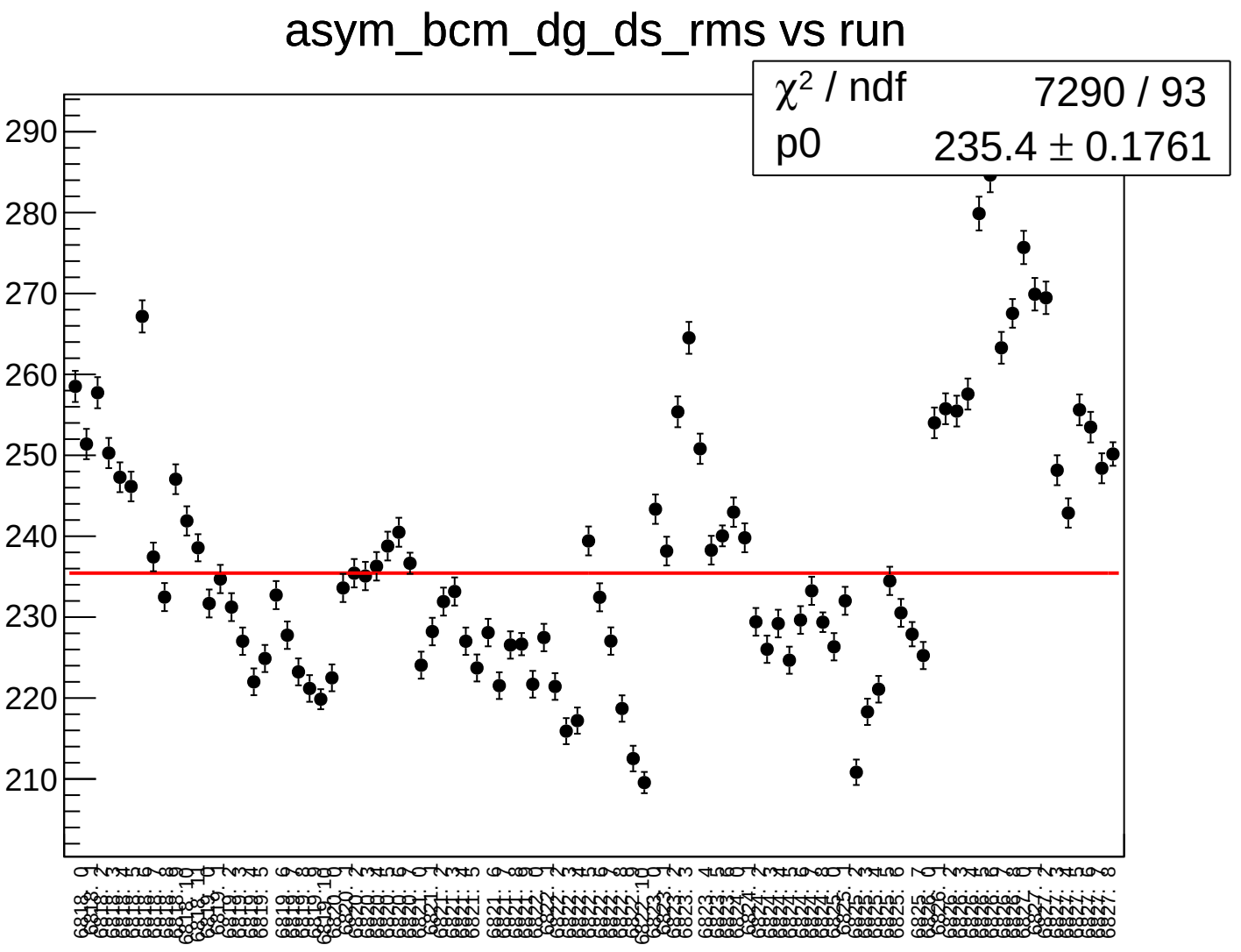
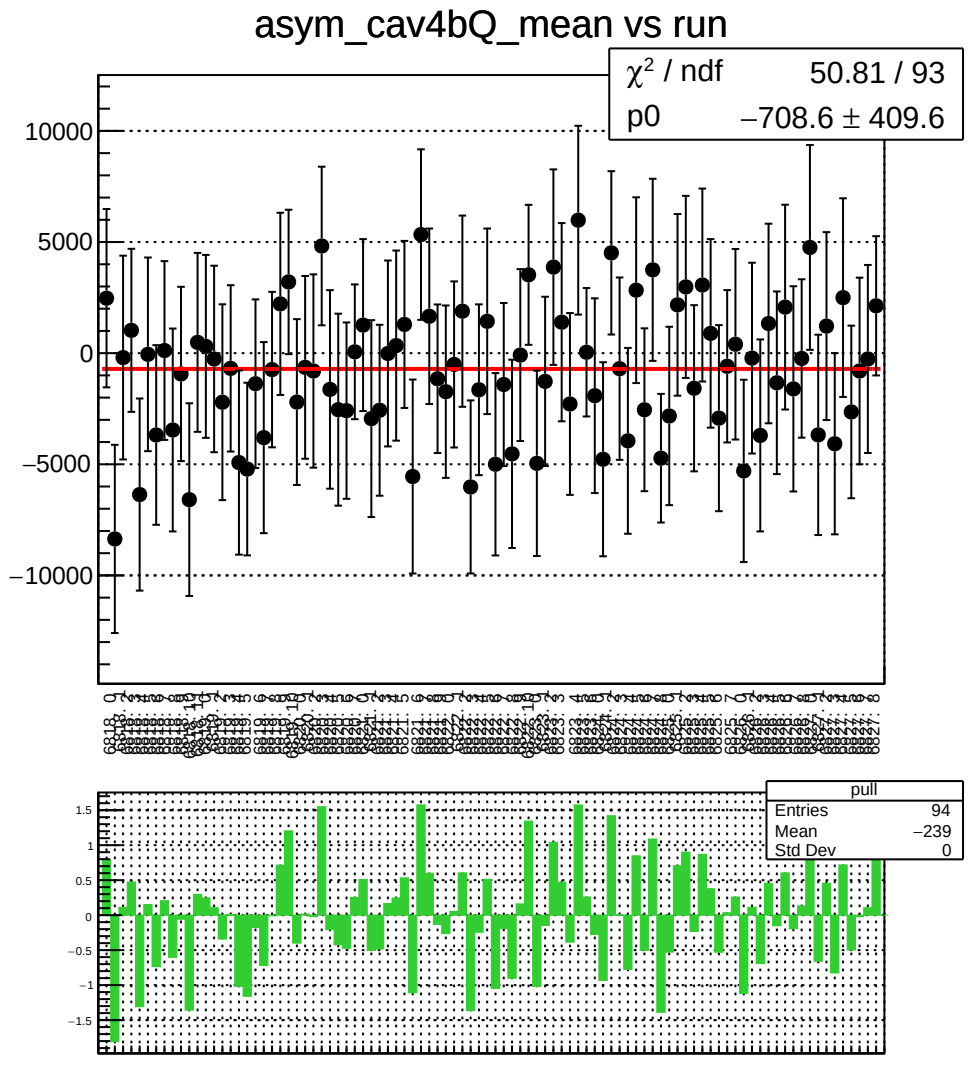
0
2
4
6
8

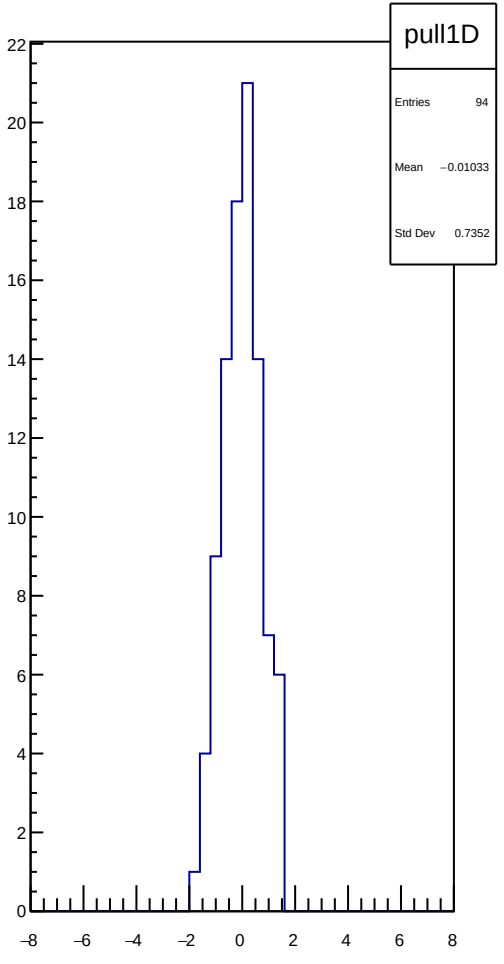

asym_bcm_dg_us_rms vs run
χ^2 / ndf 6848 / 93
p0 235.3 ± 0.1759
290
280
270
260
250
240
230
220
210

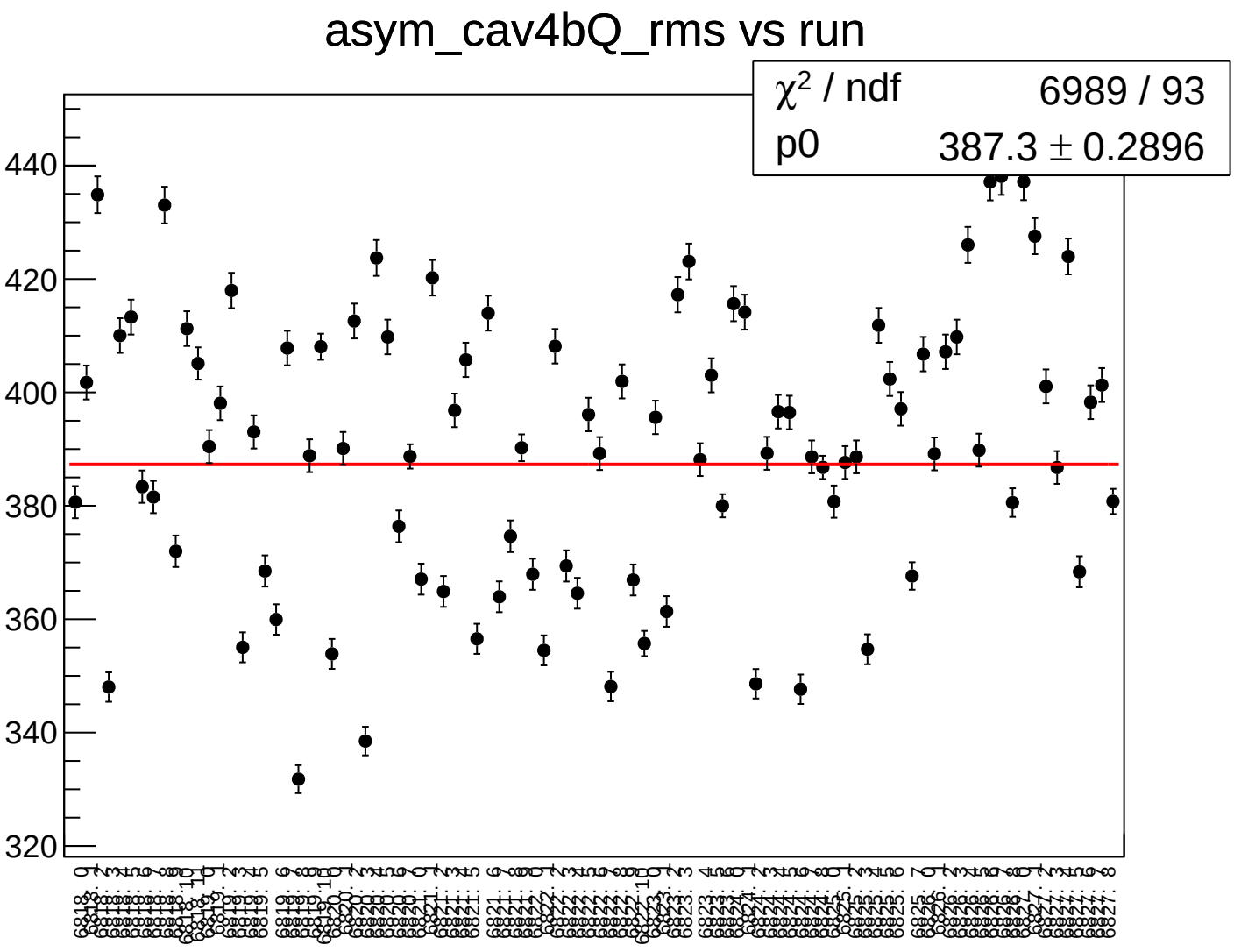

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.65 / 93
p0 −346.1± 249
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −627.1
Std Dev 0
1
0.5
0
−0.5
−1

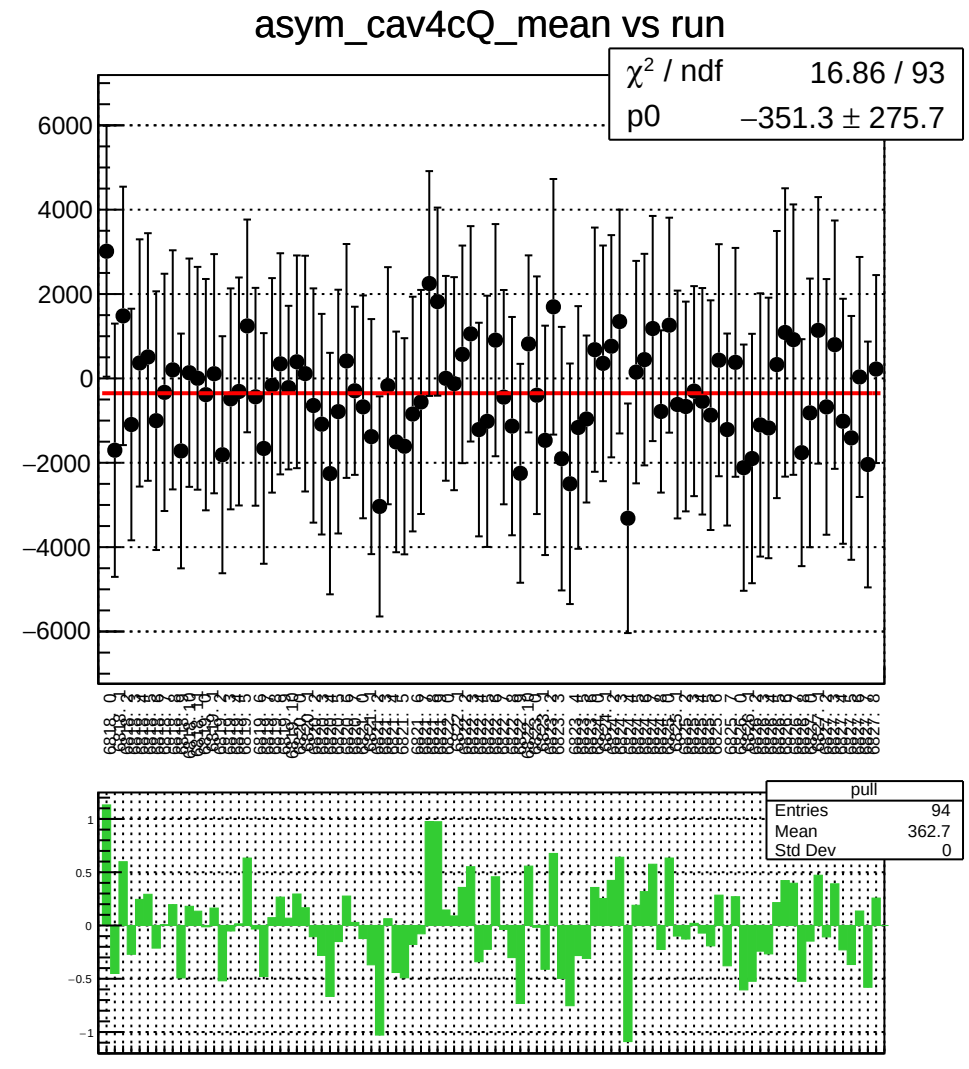

pull1D
Entries 94
Mean 0.0004426
Std Dev 0.381
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

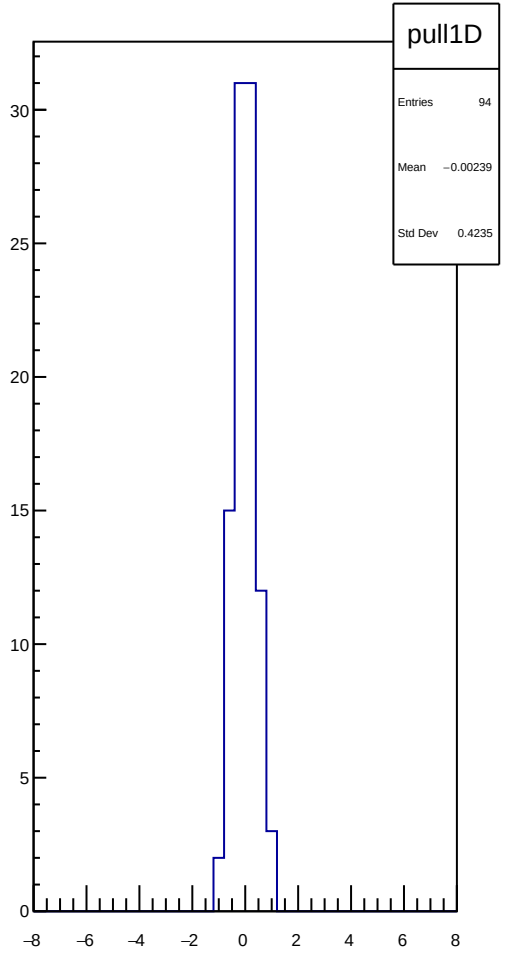

asym_bcm_dg_ds_rms vs run
χ² / ndf 7290 / 93
p0 235.4 ± 0.1761
290
280
270
260
250
240
230
220
210

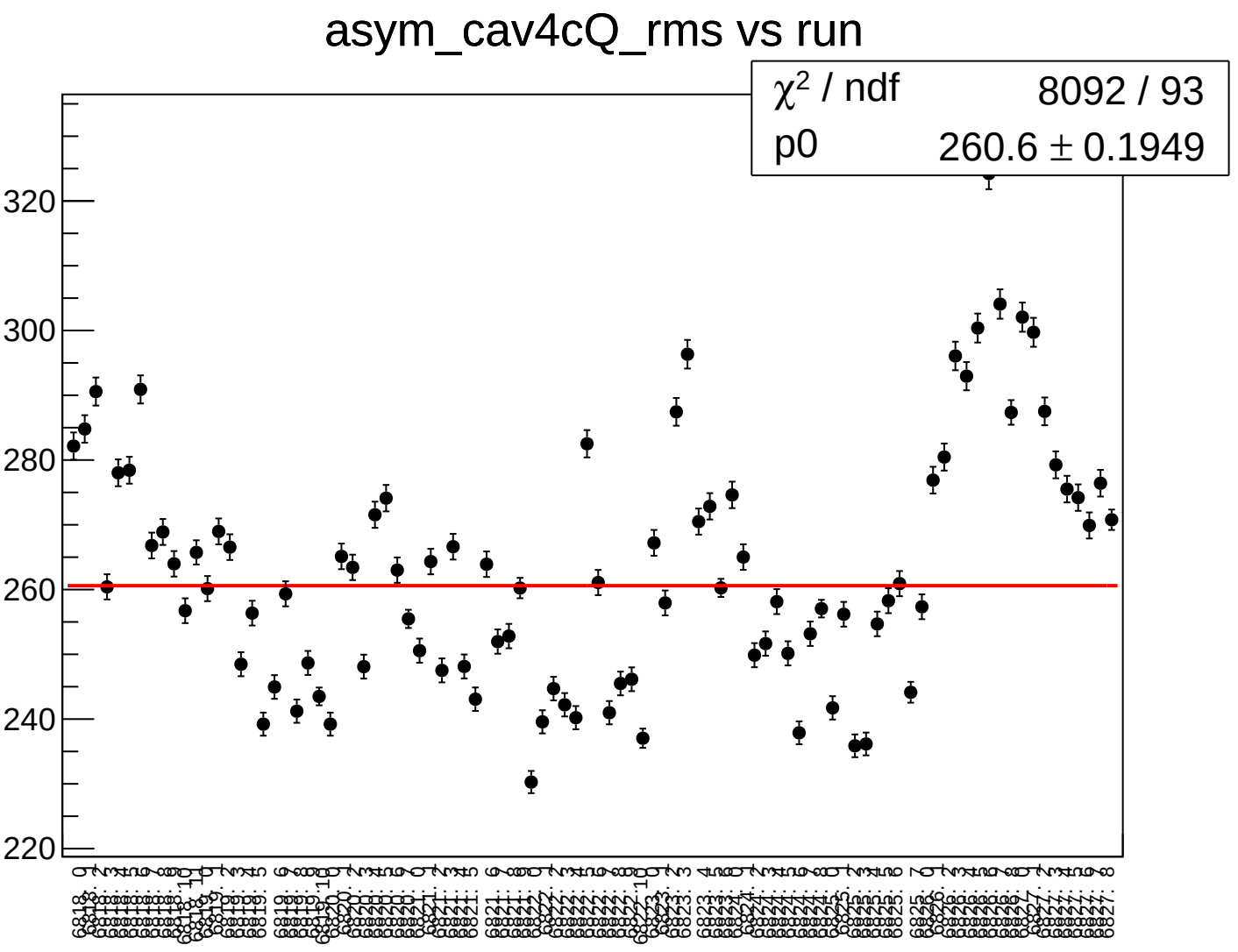

asym_cav4bQ_mean vs run
χ² / ndf 50.81 / 93
p0 −708.6 ± 409.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −239
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

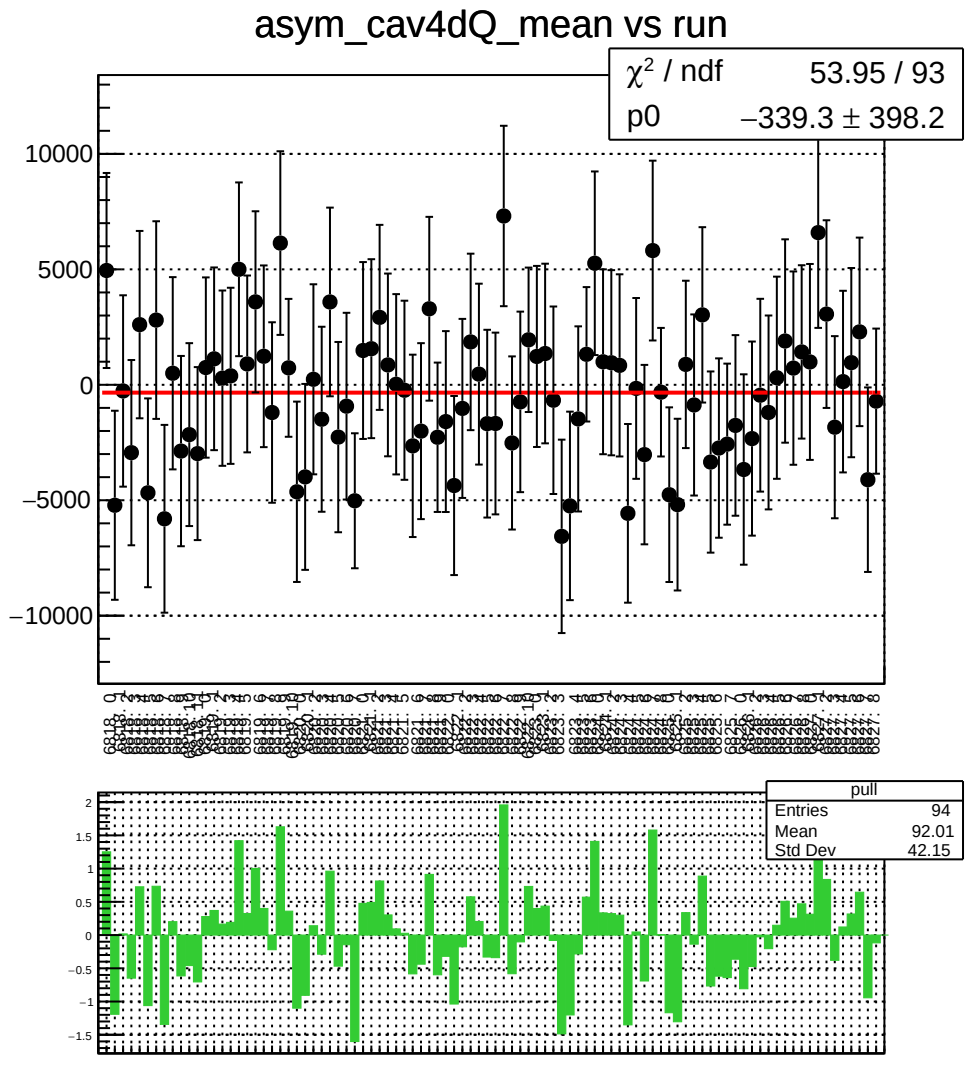

pull1D
Entries 94
Mean −0.01033
Std Dev 0.7352
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

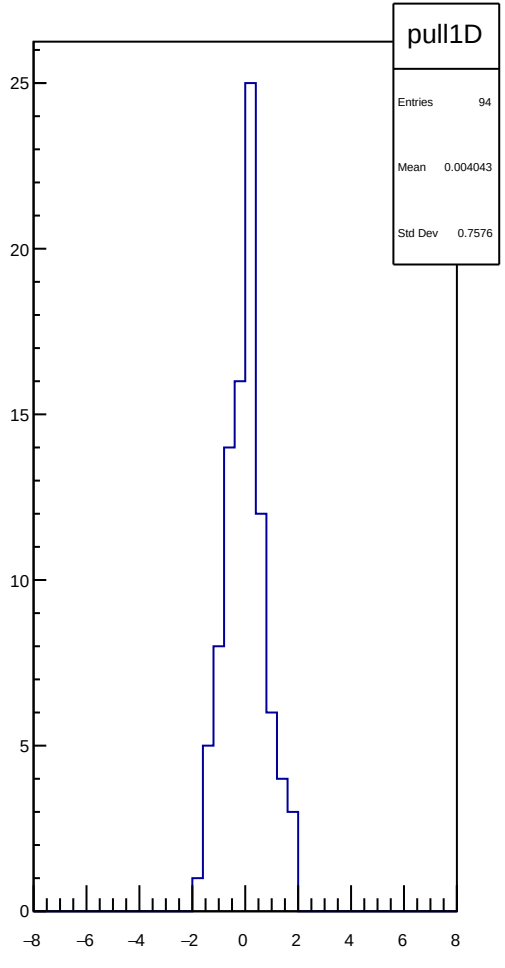

asym_cav4bQ_rms vs run
χ^2 / ndf 6989 / 93
p0 387.3 ± 0.2896
440
420
400
380
360
340
320

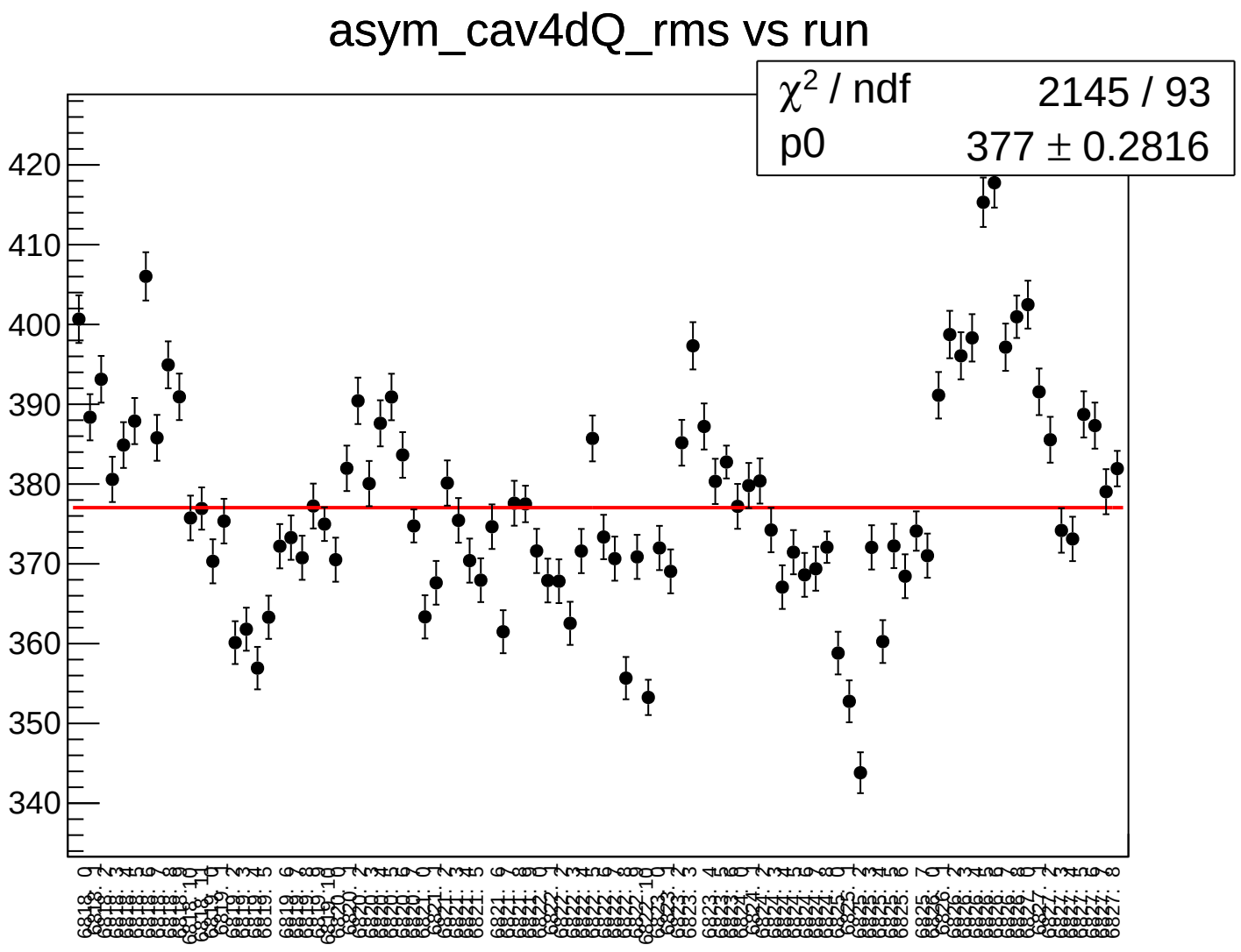

asym_cav4cQ_mean vs run
χ² / ndf 16.86 / 93
p0 −351.3 ± 275.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 362.7
Std Dev 0
1
0.5
0
−0.5
−1

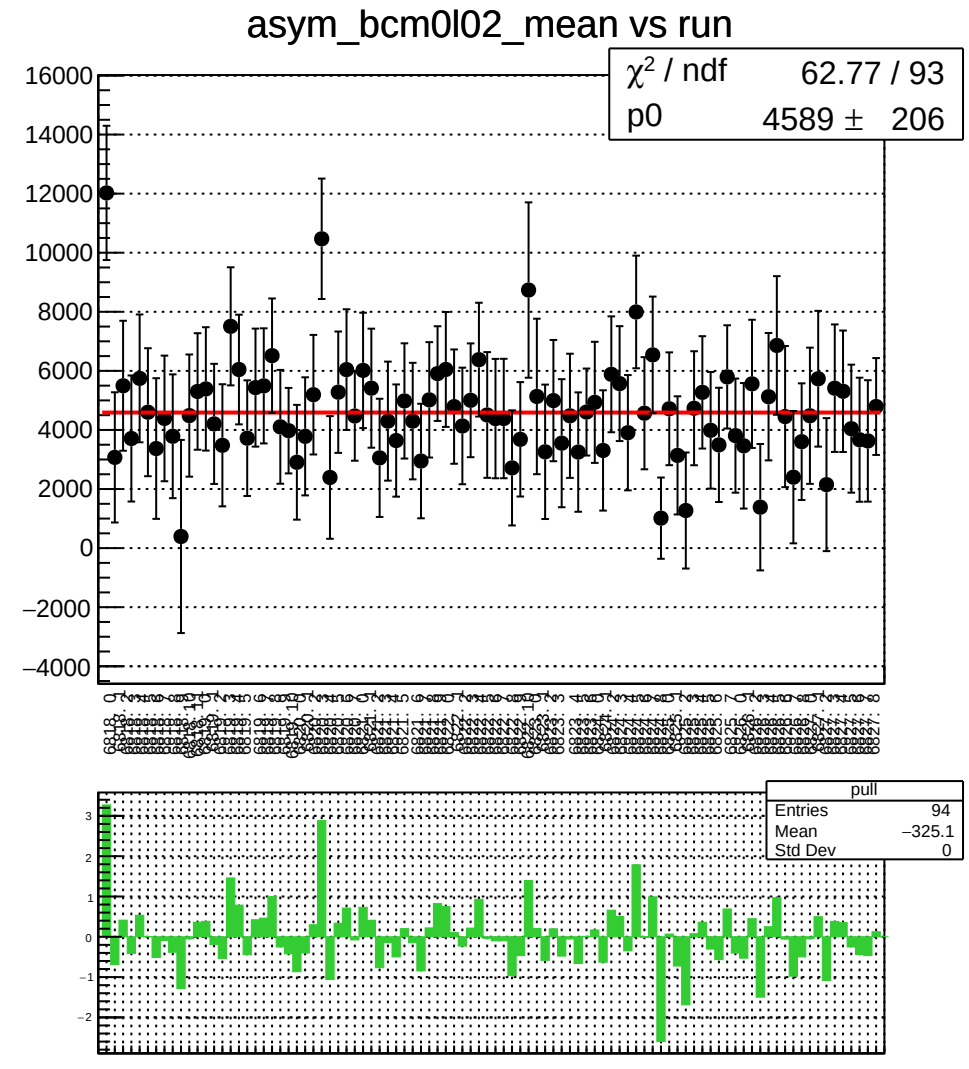

pull1D
Entries 94
Mean −0.00239
Std Dev 0.4235
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

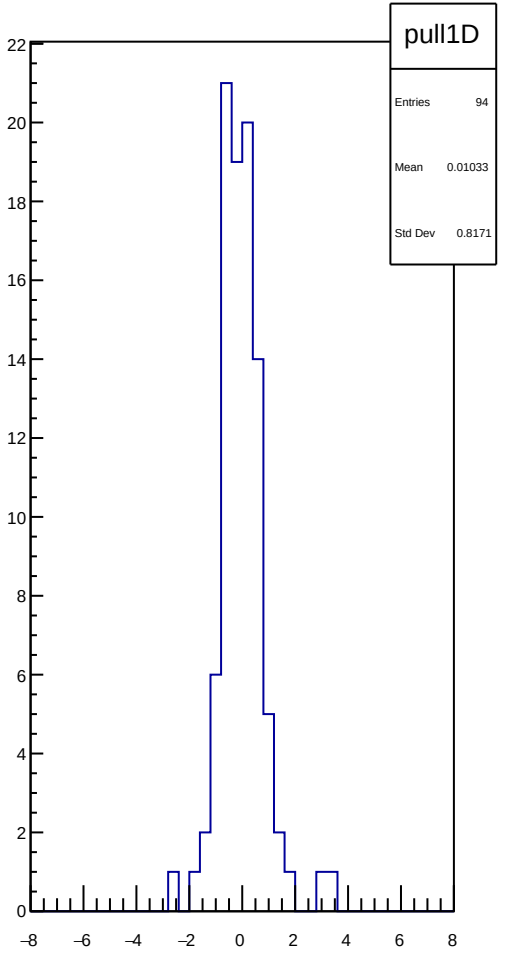

asym_cav4cQ_rms vs run
χ² / ndf 8092 / 93
p0 260.6 ± 0.1949
320
300
280
260
240
220

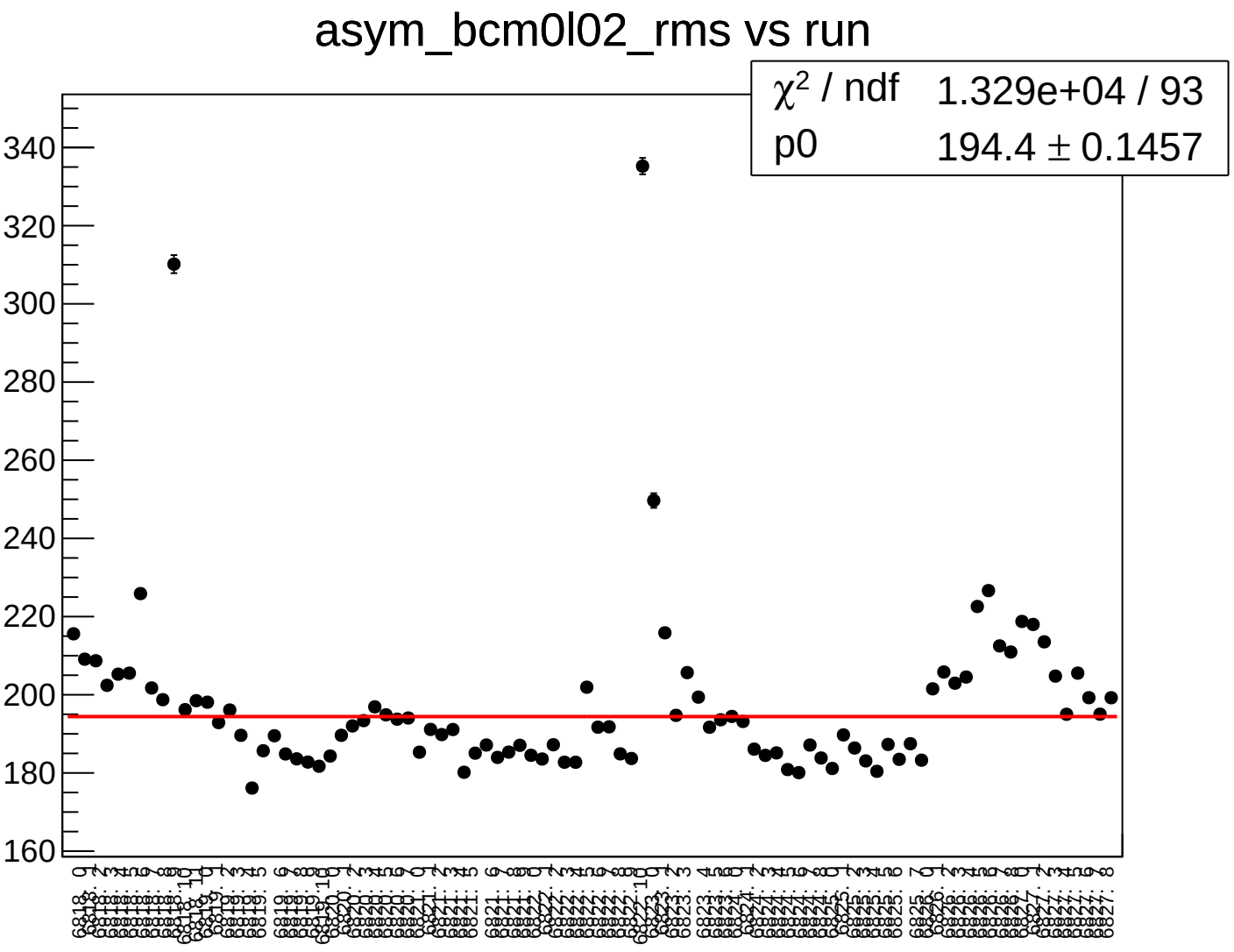

asym_cav4dQ_mean vs run
χ² / ndf 53.95 / 93
p0 −339.3 ± 398.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 92.01
Std Dev 42.15
2
1.5
1
0.5
0
−0.5
−1
−1.5

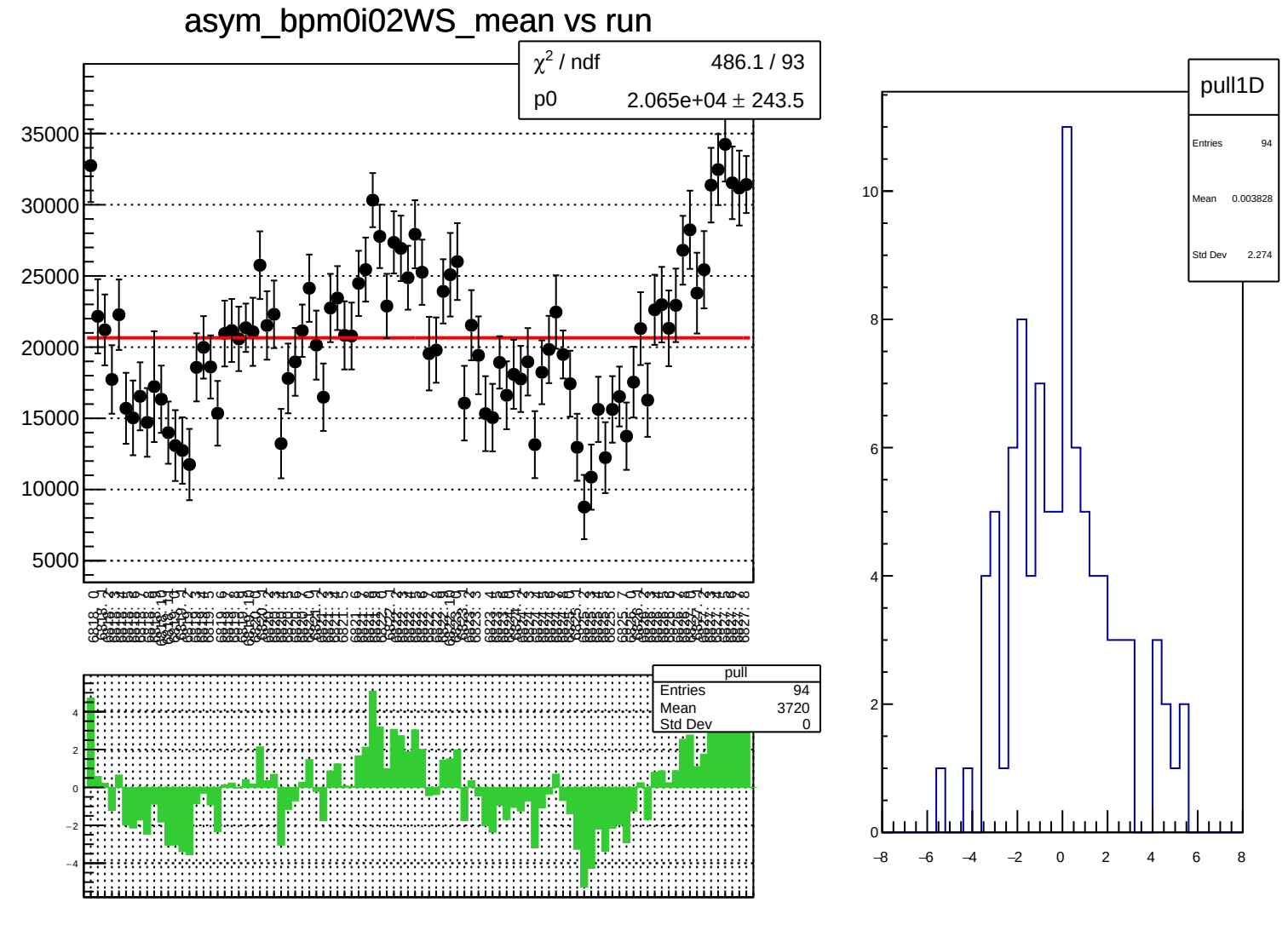

pull1D
Entries 94
Mean 0.004043
Std Dev 0.7576
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

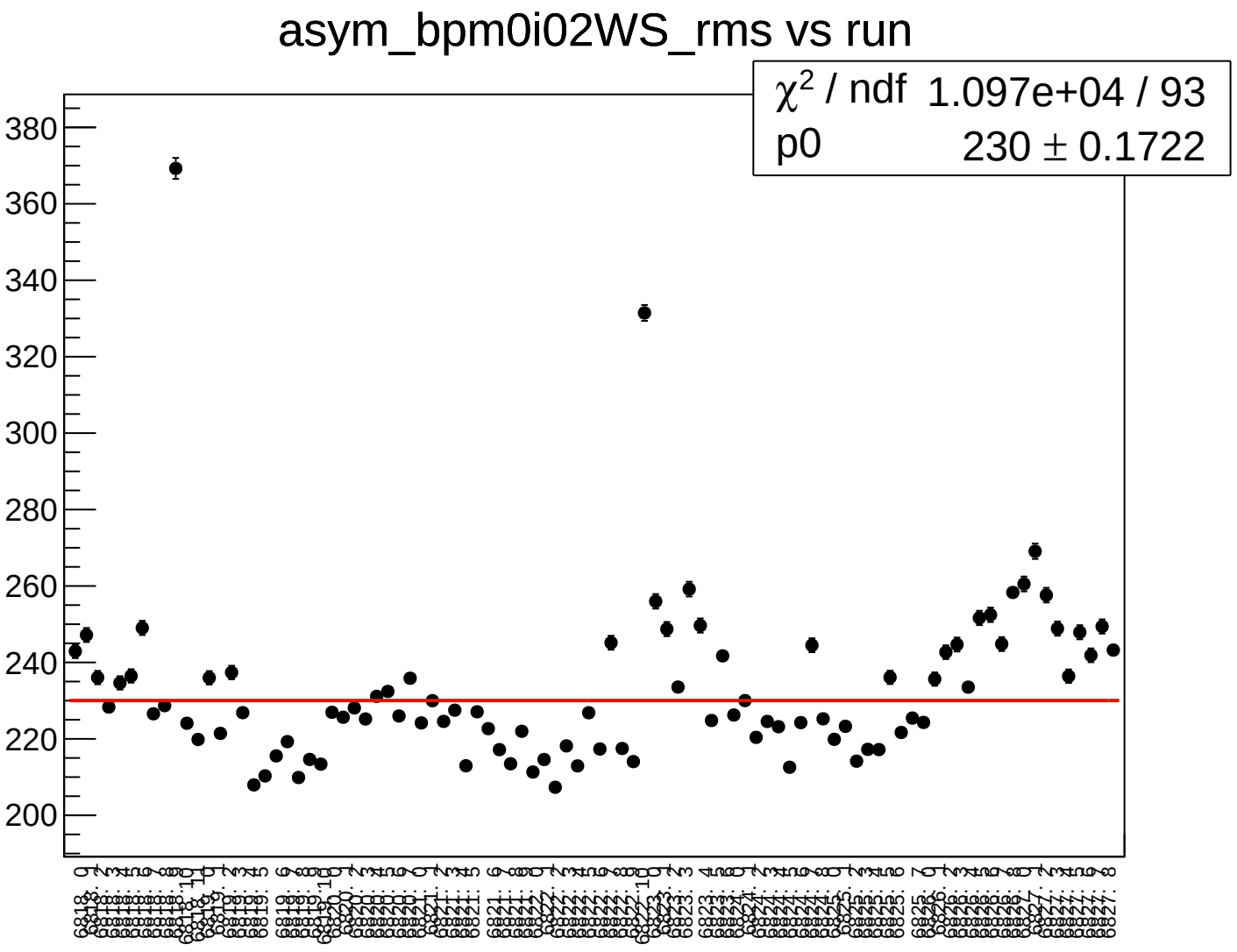

asym_cav4dQ_rms vs run
χ² / ndf 2145 / 93
p0 377 ± 0.2816
420
410
400
390
380
370
360
350
340

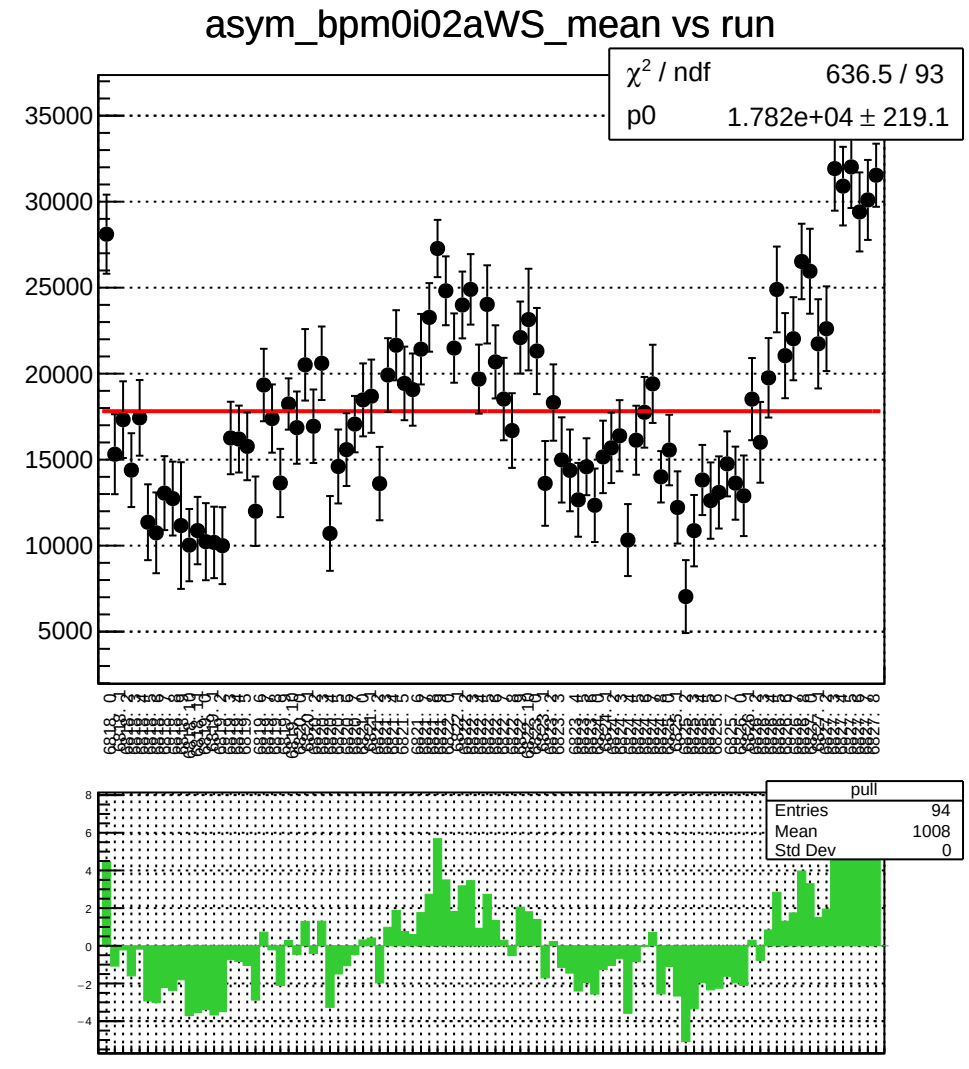

asym_bcm0l02_mean vs run
χ² / ndf 62.77 / 93
p0 4589 ± 206
pull
Entries 94
Mean −325.1
Std Dev 0

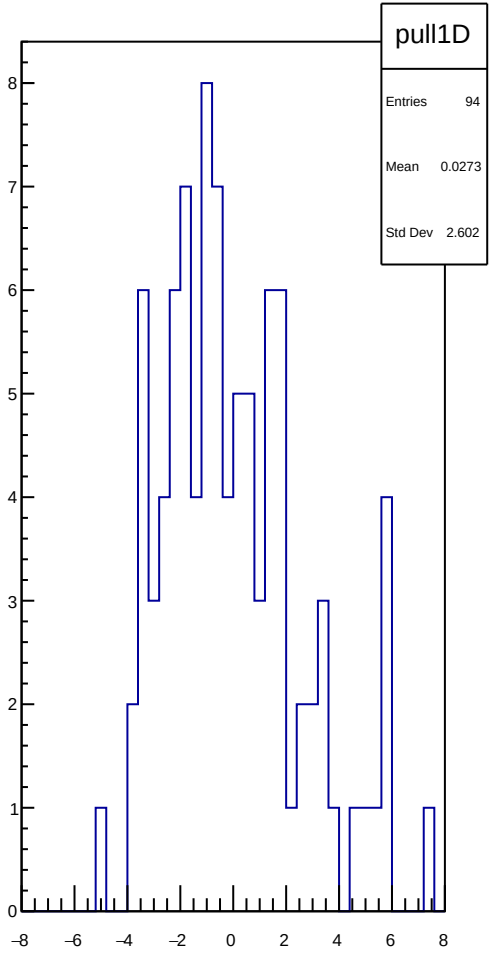

pull1D
Entries 94
Mean 0.01033
Std Dev 0.8171

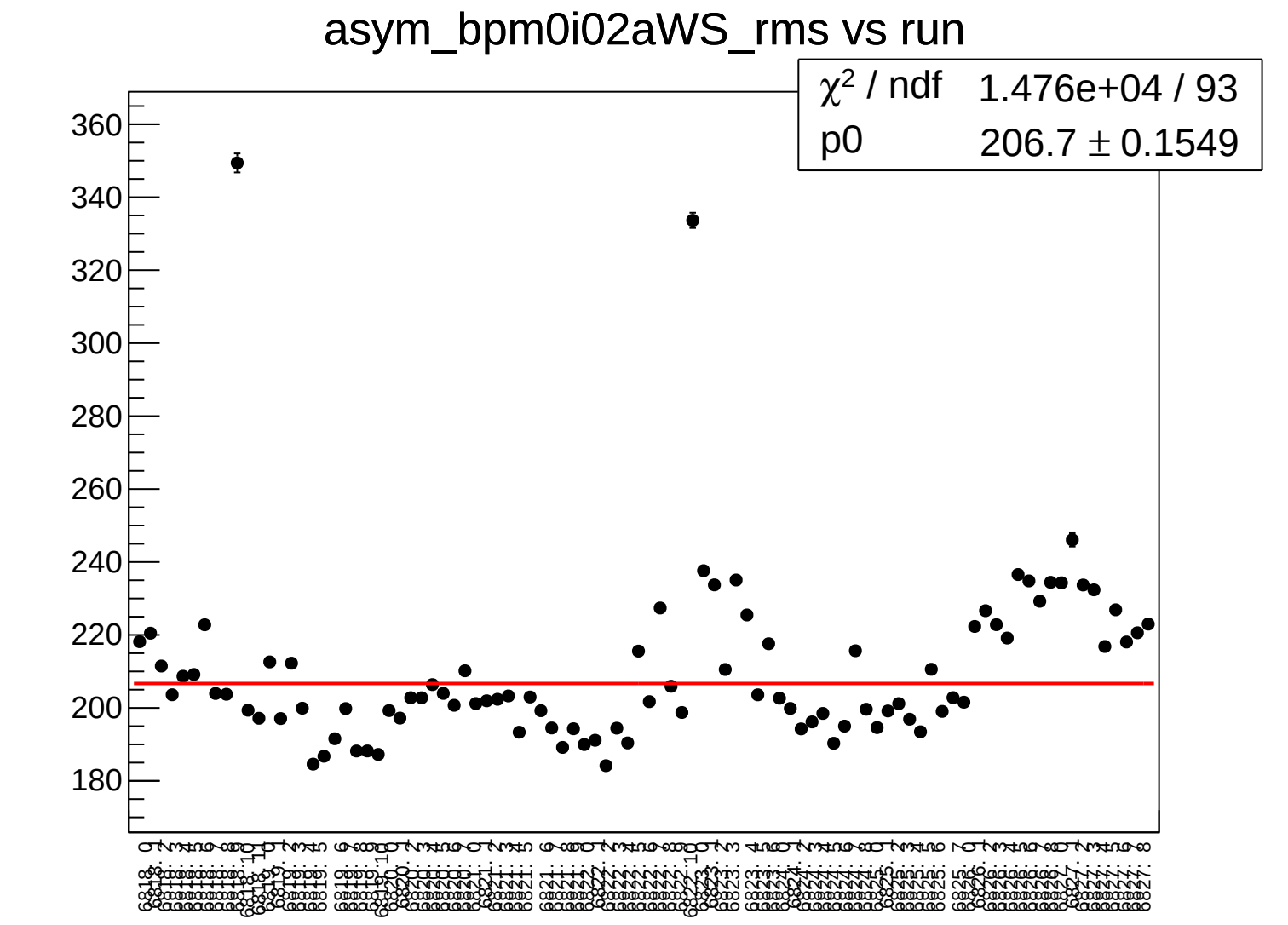

asym_bcm0l02_rms vs run
χ² / ndf 1.329e+04 / 93
p0 194.4 ± 0.1457
340
320
300
280
260
240
220
200
180
160

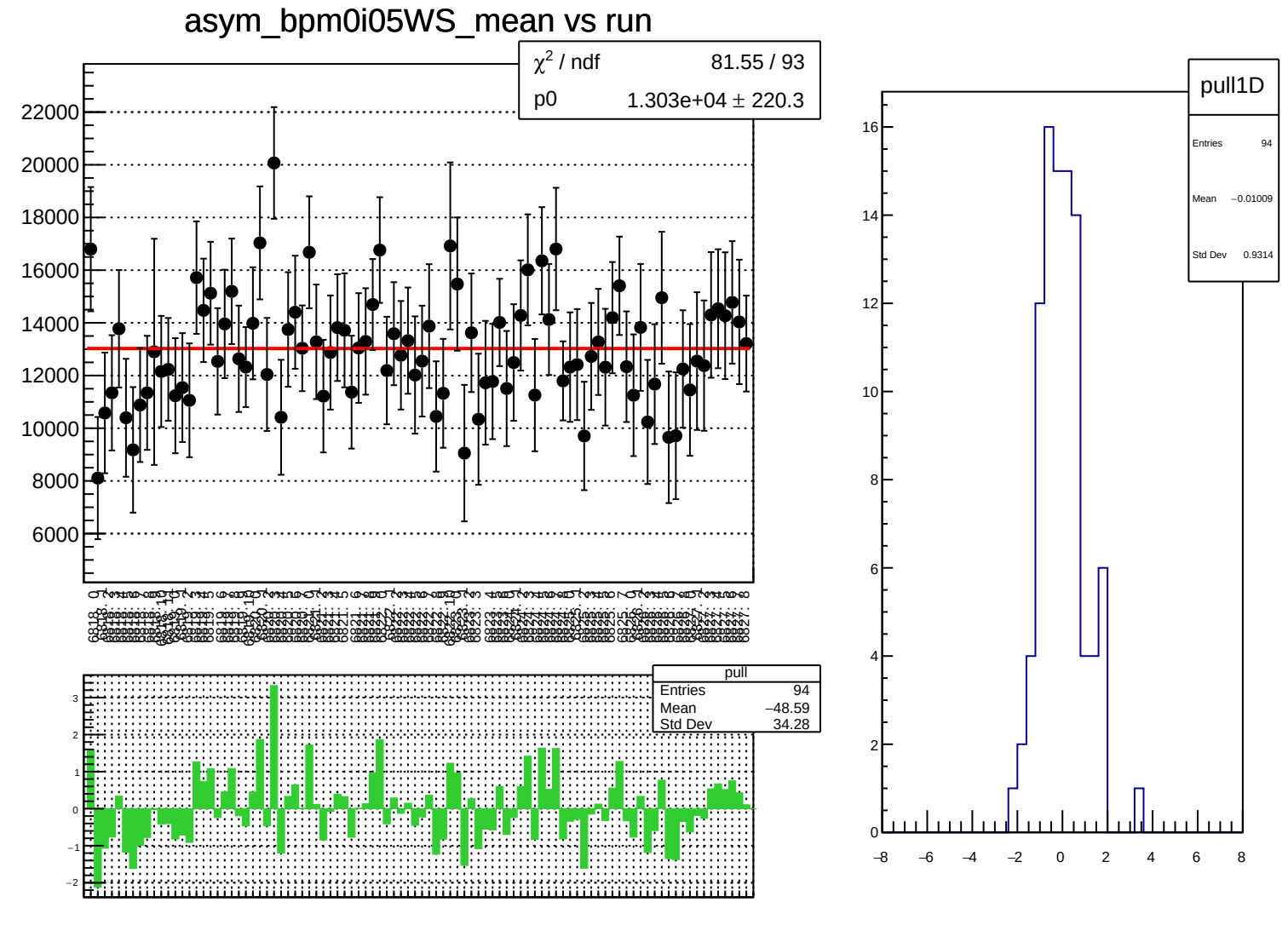

asym_bpm0i02WS_mean vs run
χ² / ndf 486.1 / 93
p0 2.065e+04 ± 243.5
35000
30000
25000
20000
15000
10000
5000
pull
Entries 94
Mean 3720
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.003828
Std Dev 2.274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

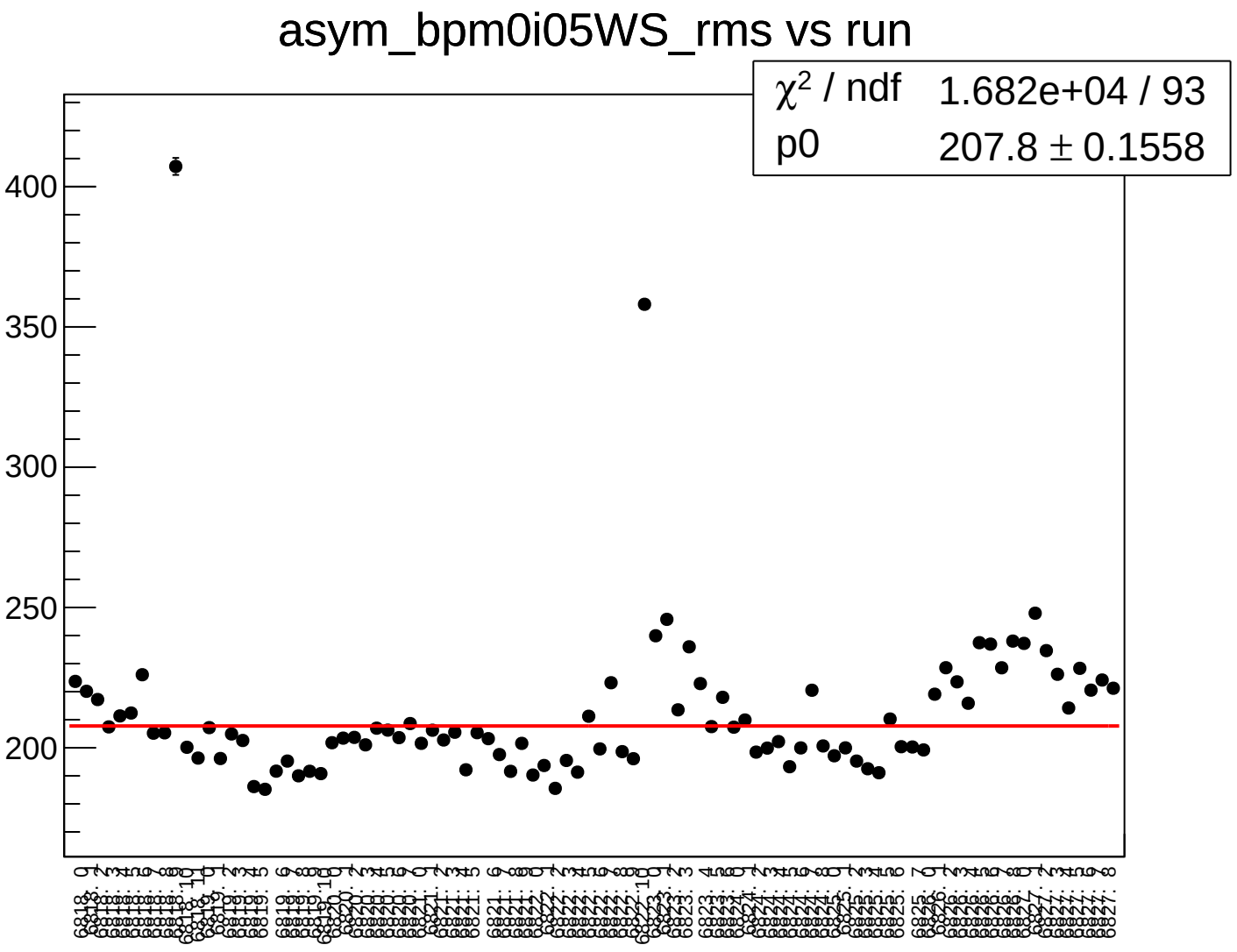

asym_bpm0i02WS_rms vs run
χ² / ndf 1.097e+04 / 93
p0 230 ± 0.1722
380
360
340
320
300
280
260
240
220
200

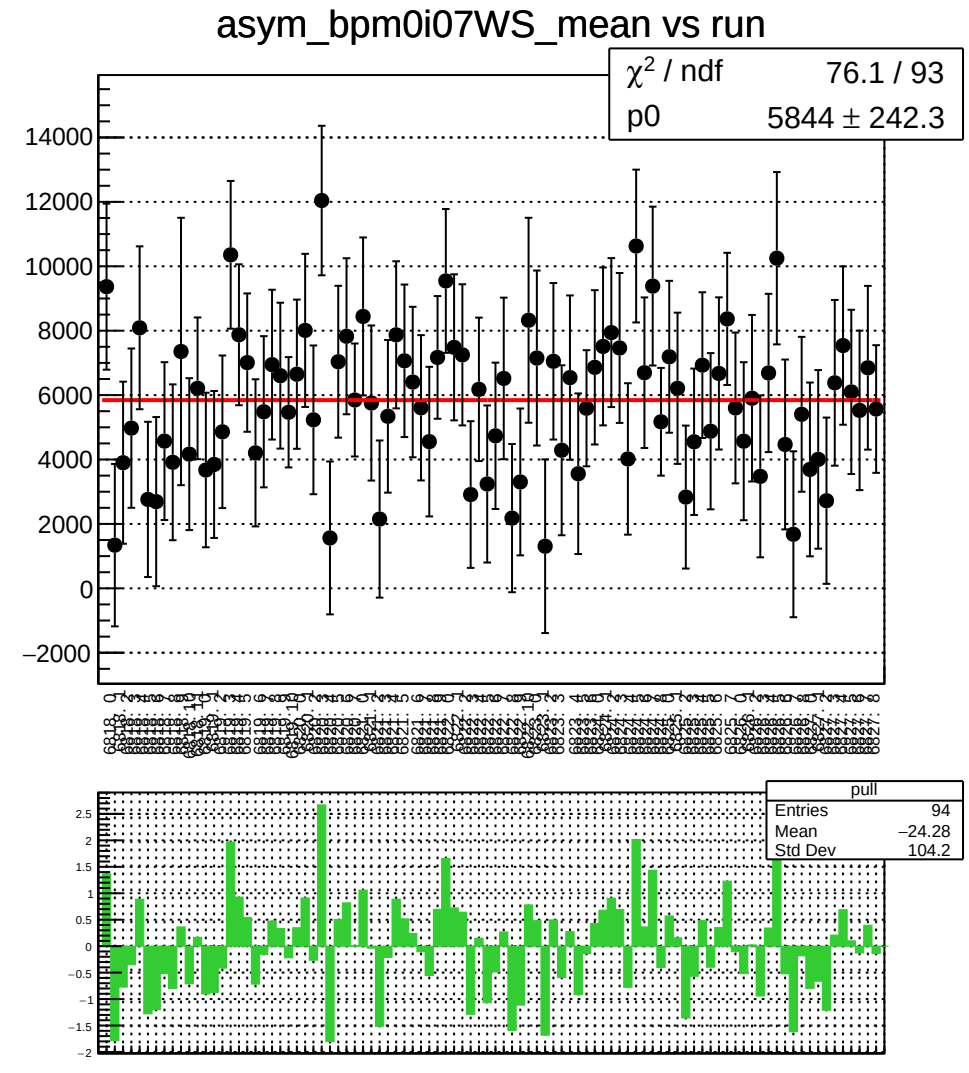

asym_bpm0i02aWS_mean vs run
χ² / ndf 636.5 / 93
p0 1.782e+04 ± 219.1
pull
Entries 94
Mean 1008
Std Dev 0

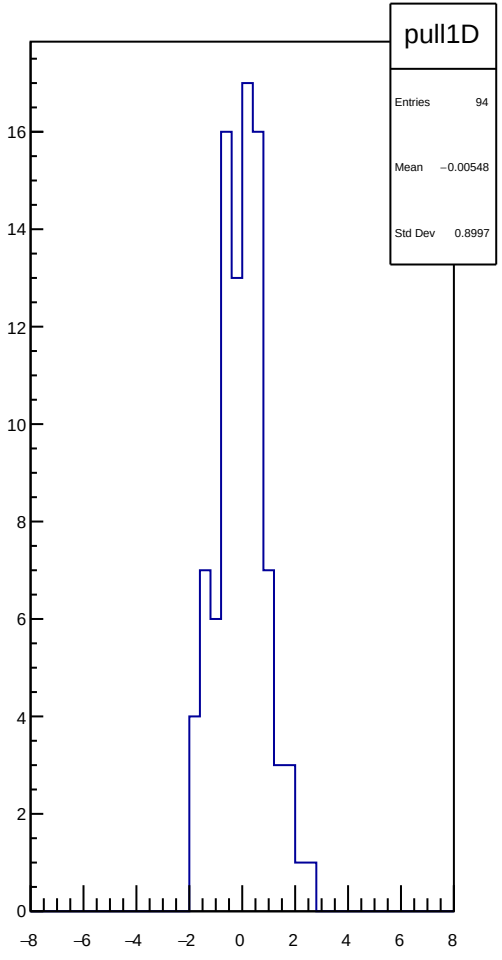

pull1D
Entries 94
Mean 0.0273
Std Dev 2.602

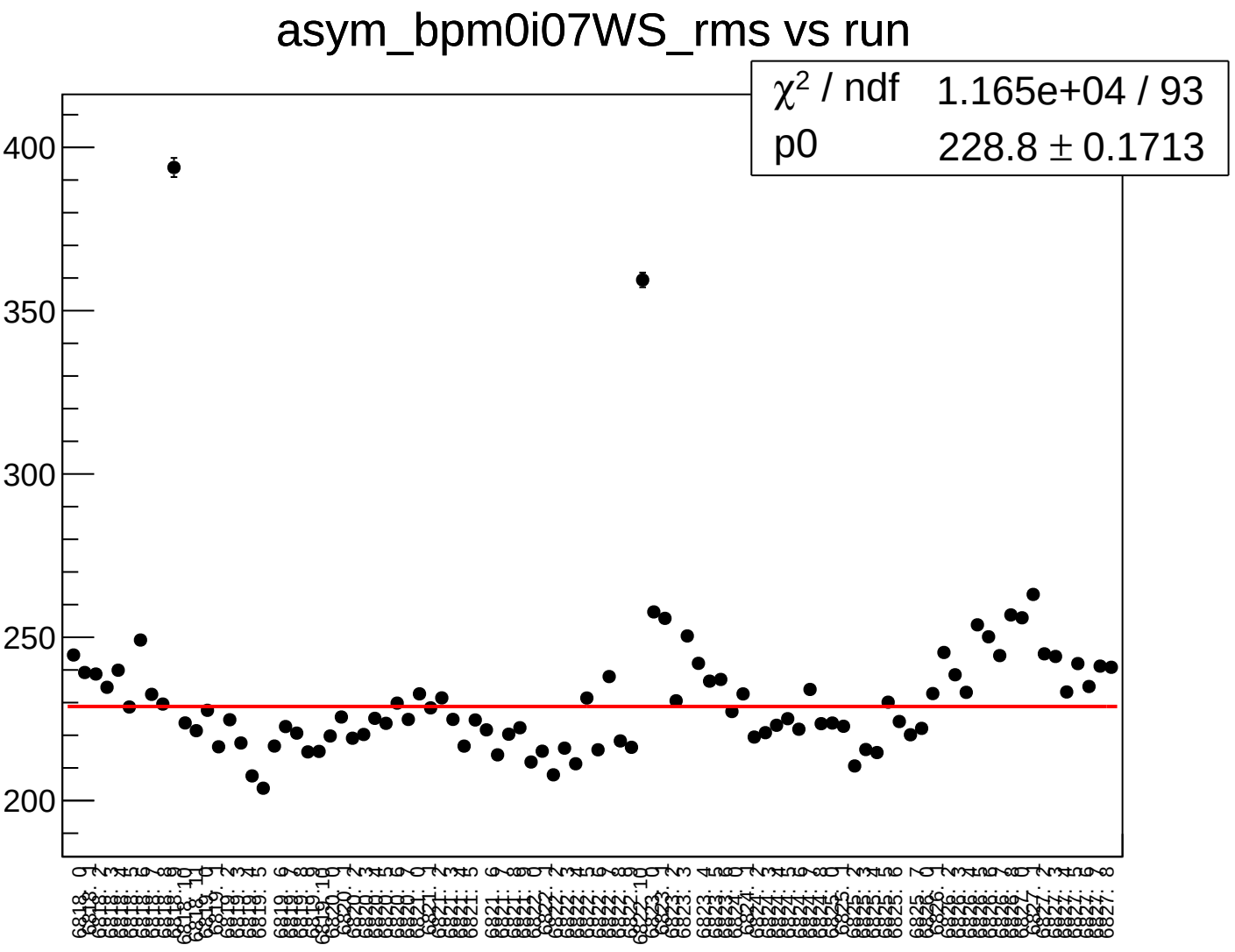

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.476e+04 / 93
p0 206.7 ± 0.1549
360
340
320
300
280
260
240
220
200
180

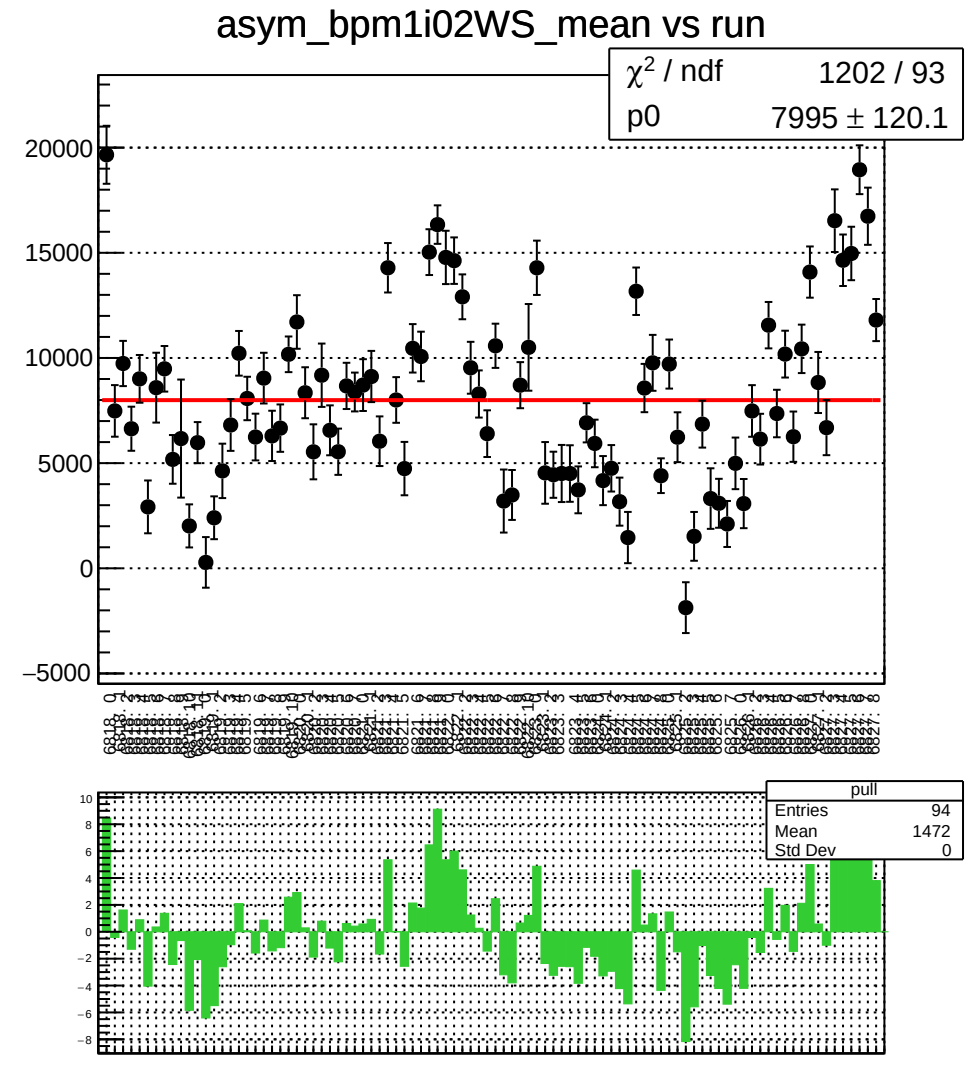

asym_bpm0i05WS_mean vs run
χ² / ndf 81.55 / 93
p0 1.303e+04 ± 220.3
22000
20000
18000
16000
14000
12000
10000
8000
6000
pull
Entries 94
Mean −48.59
Std Dev 34.28
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01009
Std Dev 0.9314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

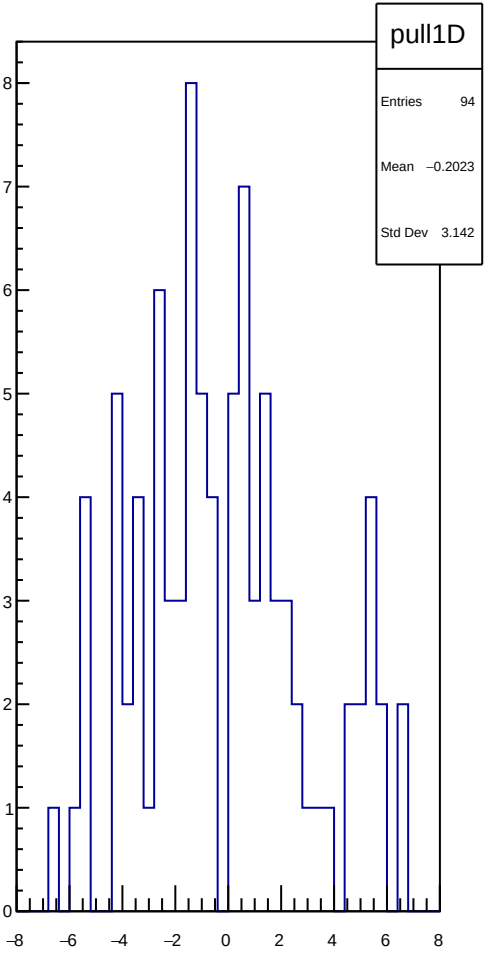

asym_bpm0i05WS_rms vs run
χ² / ndf 1.682e+04 / 93
p0 207.8 ± 0.1558
400
350
300
250
200

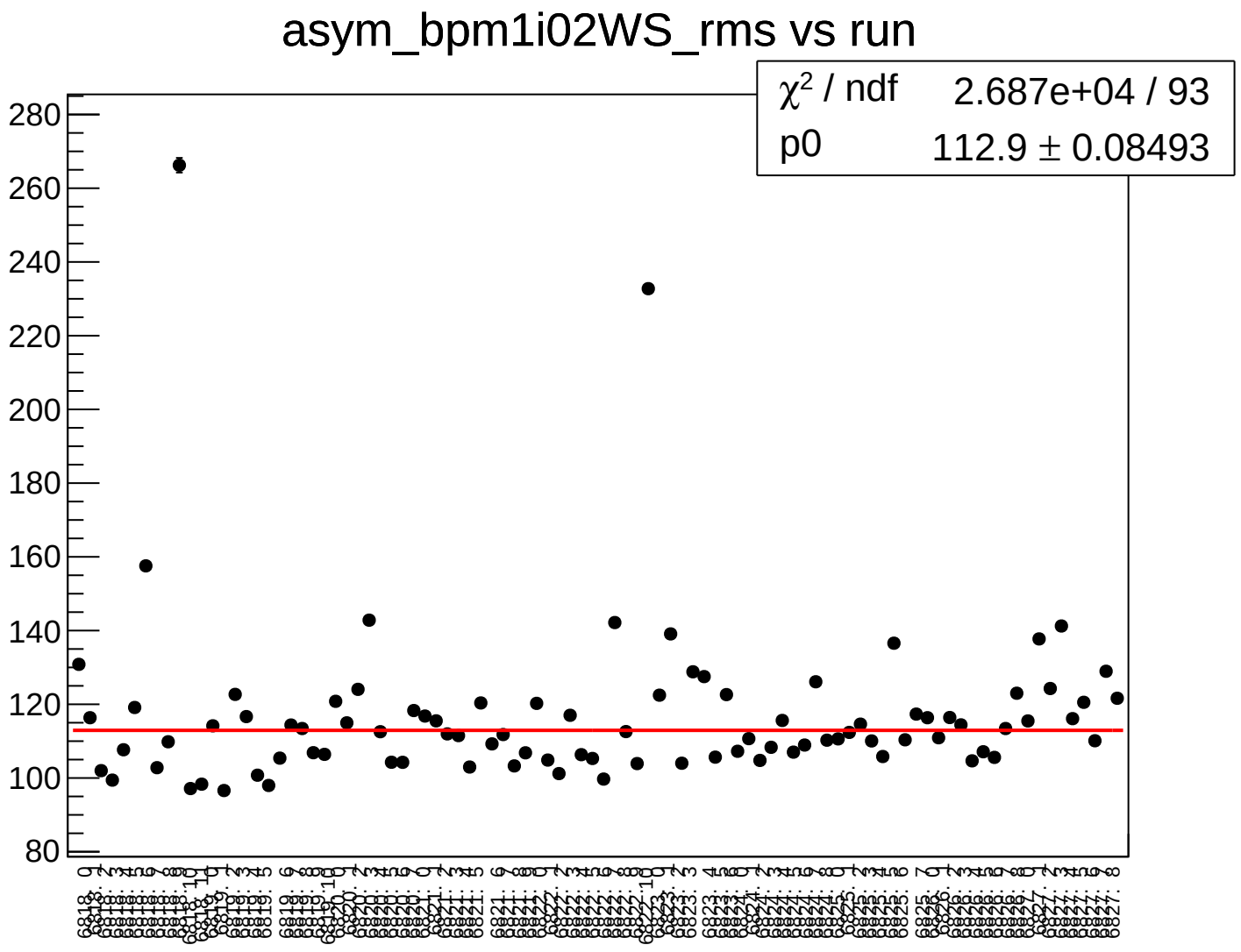

asym_bpm0i07WS_mean vs run
χ² / ndf 76.1 / 93
p0 5844 ± 242.3
pull
Entries 94
Mean −24.28
Std Dev 104.2

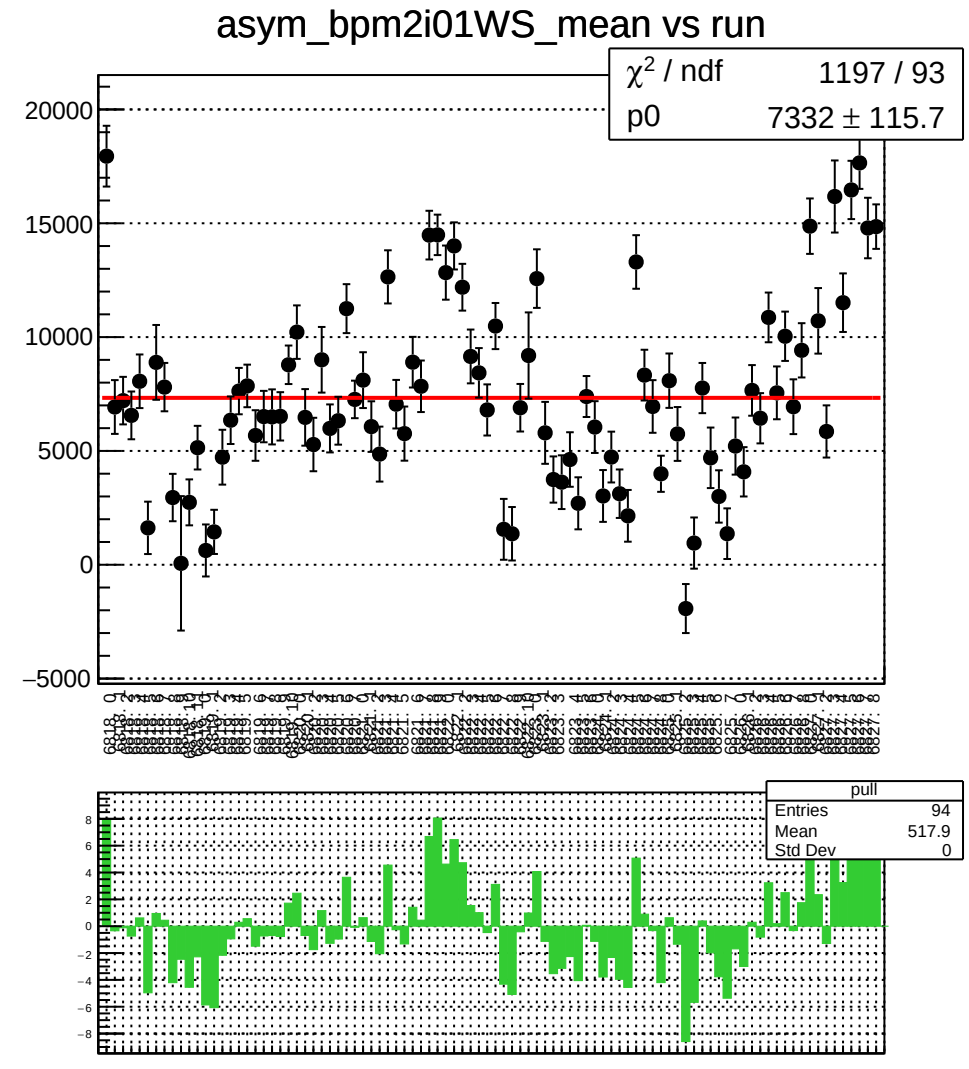

pull1D
Entries 94
Mean −0.00548
Std Dev 0.8997

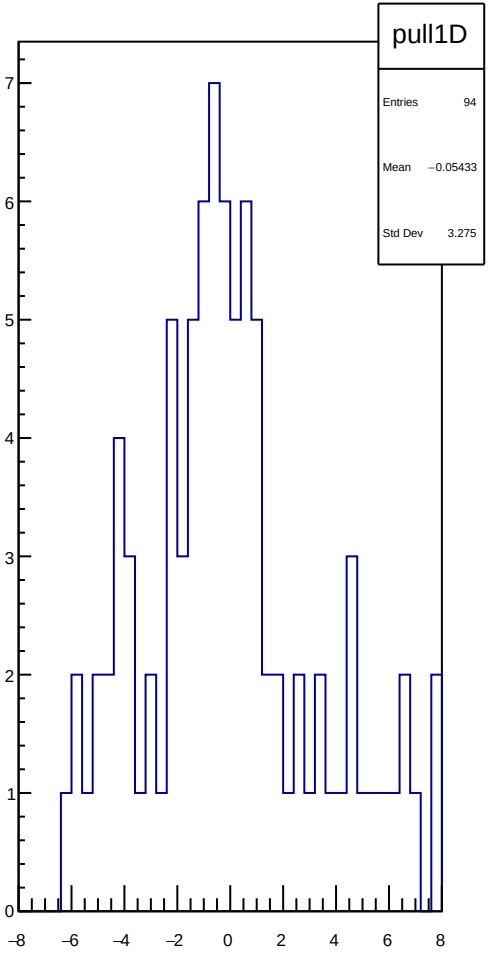

asym_bpm0i07WS_rms vs run
χ² / ndf 1.165e+04 / 93
p0 228.8 ± 0.1713
400
350
300
250
200

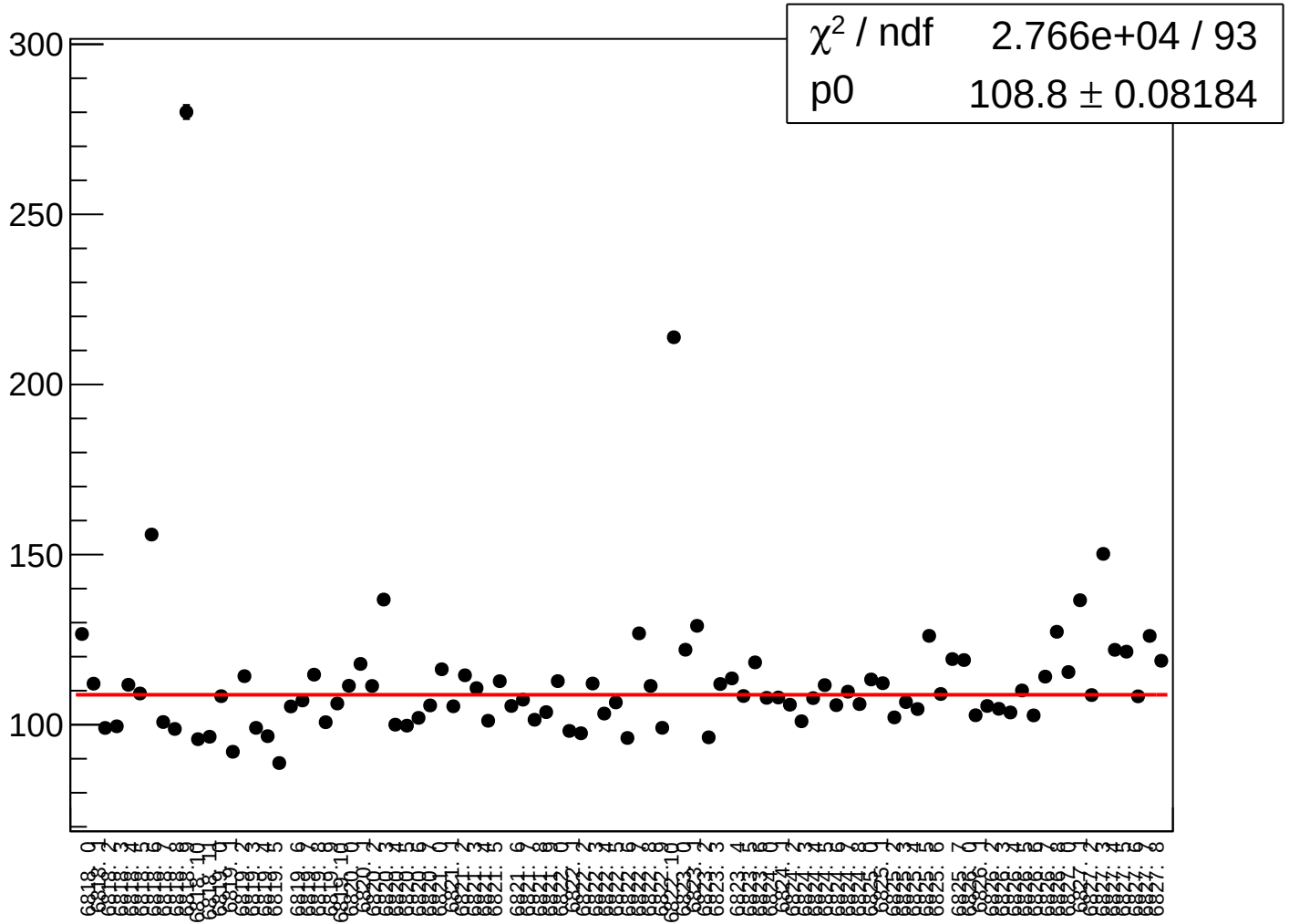

asym_bpm1i02WS_mean vs run
χ² / ndf 1202 / 93
p0 7995 ± 120.1
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 1472
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

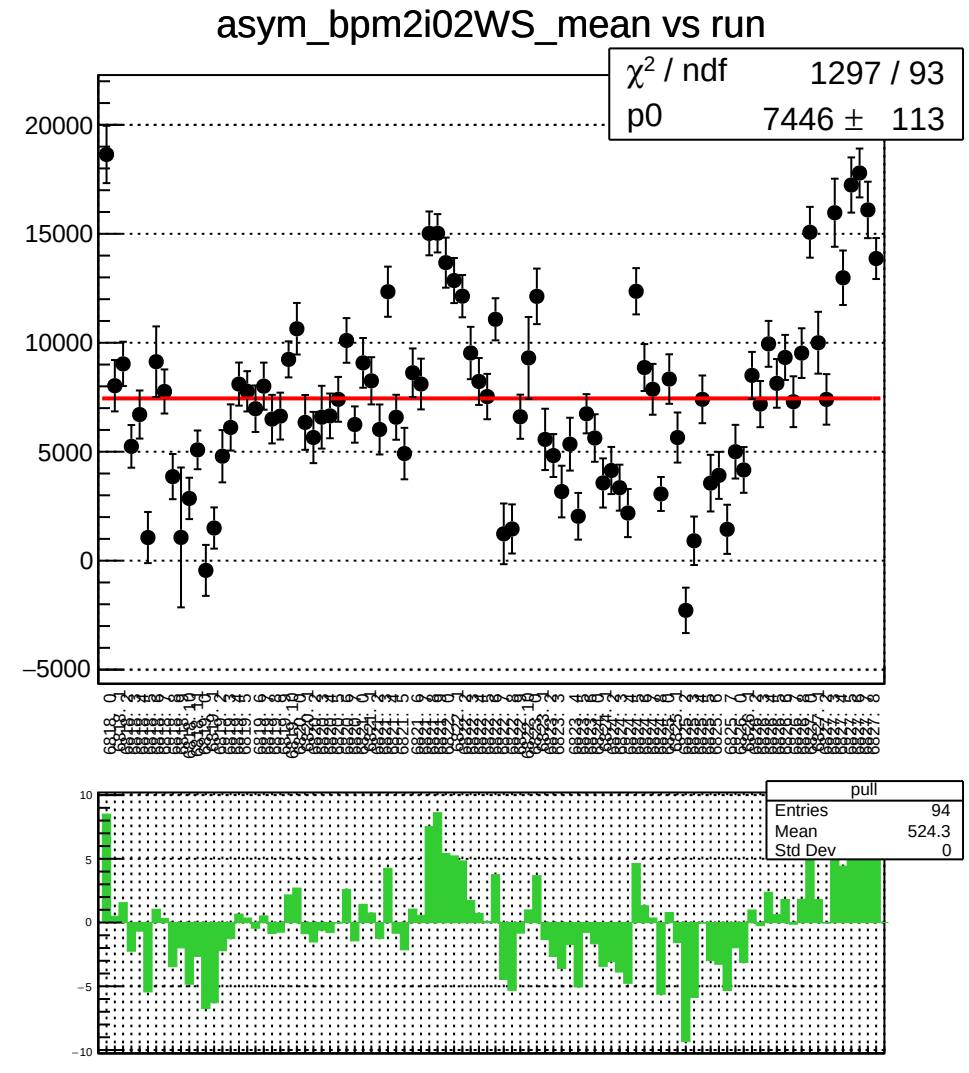

pull1D
Entries 94
Mean −0.2023
Std Dev 3.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

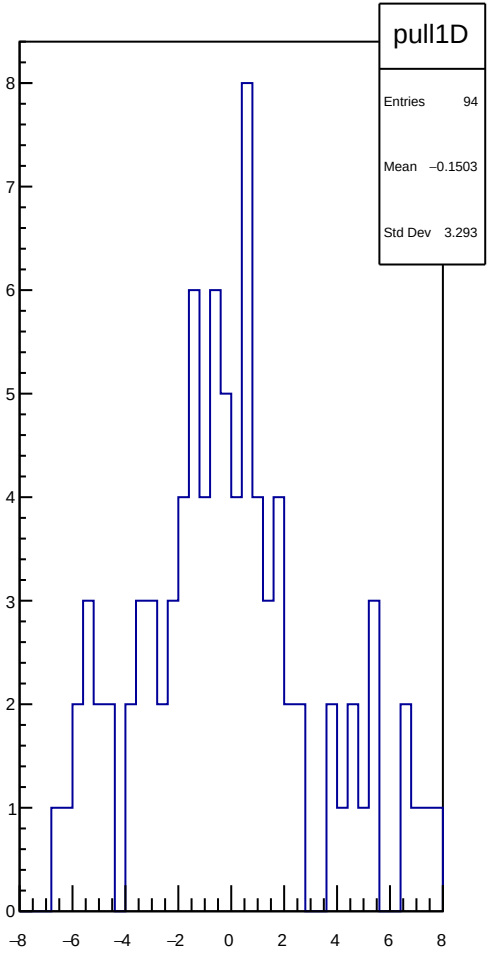

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2.687e+04 / 93
p0 112.9 ± 0.08493
280
260
240
220
200
180
160
140
120
100
80

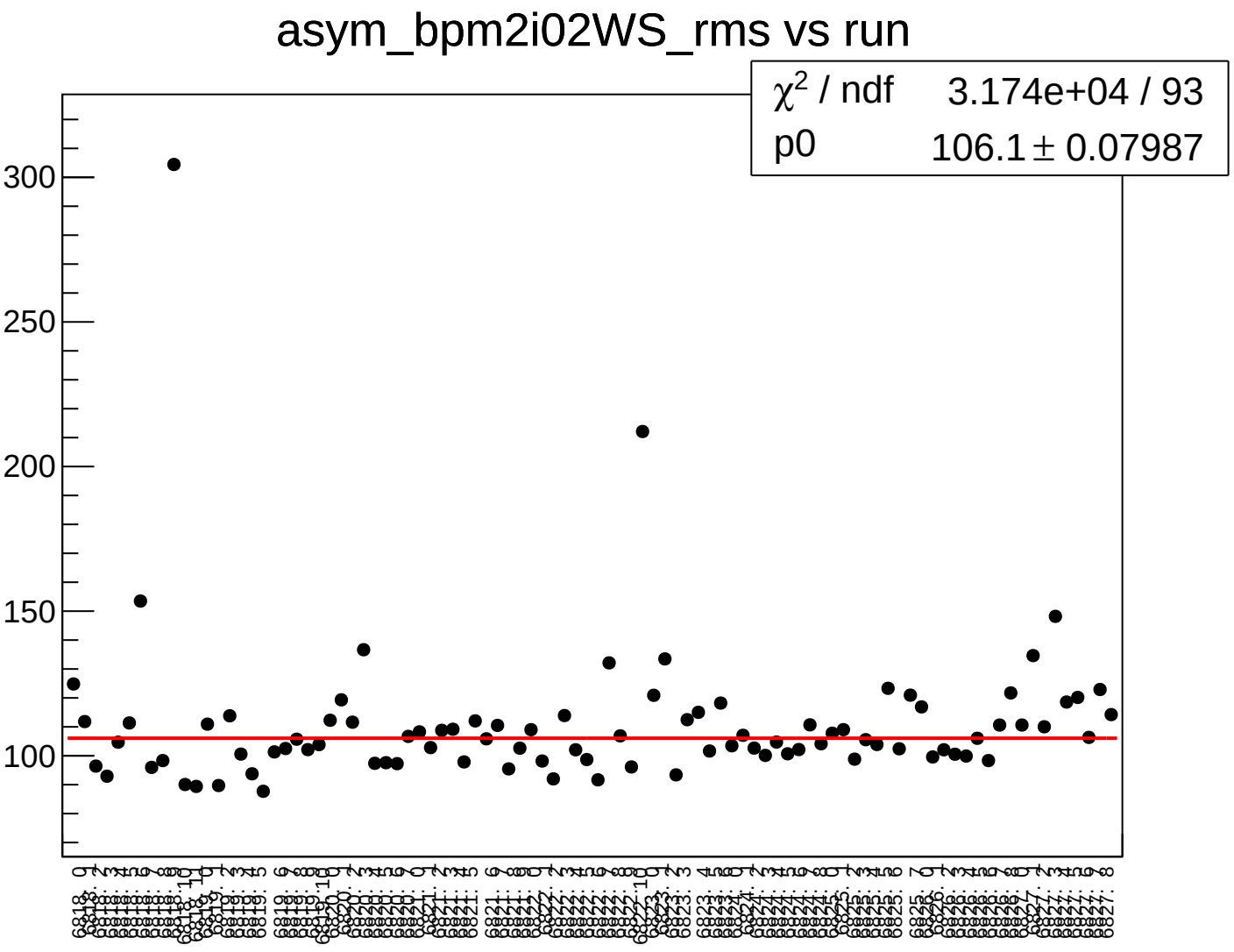

asym_bpm2i01WS_mean vs run
χ² / ndf 1197 / 93
p0 7332 ± 115.7
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 517.9
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

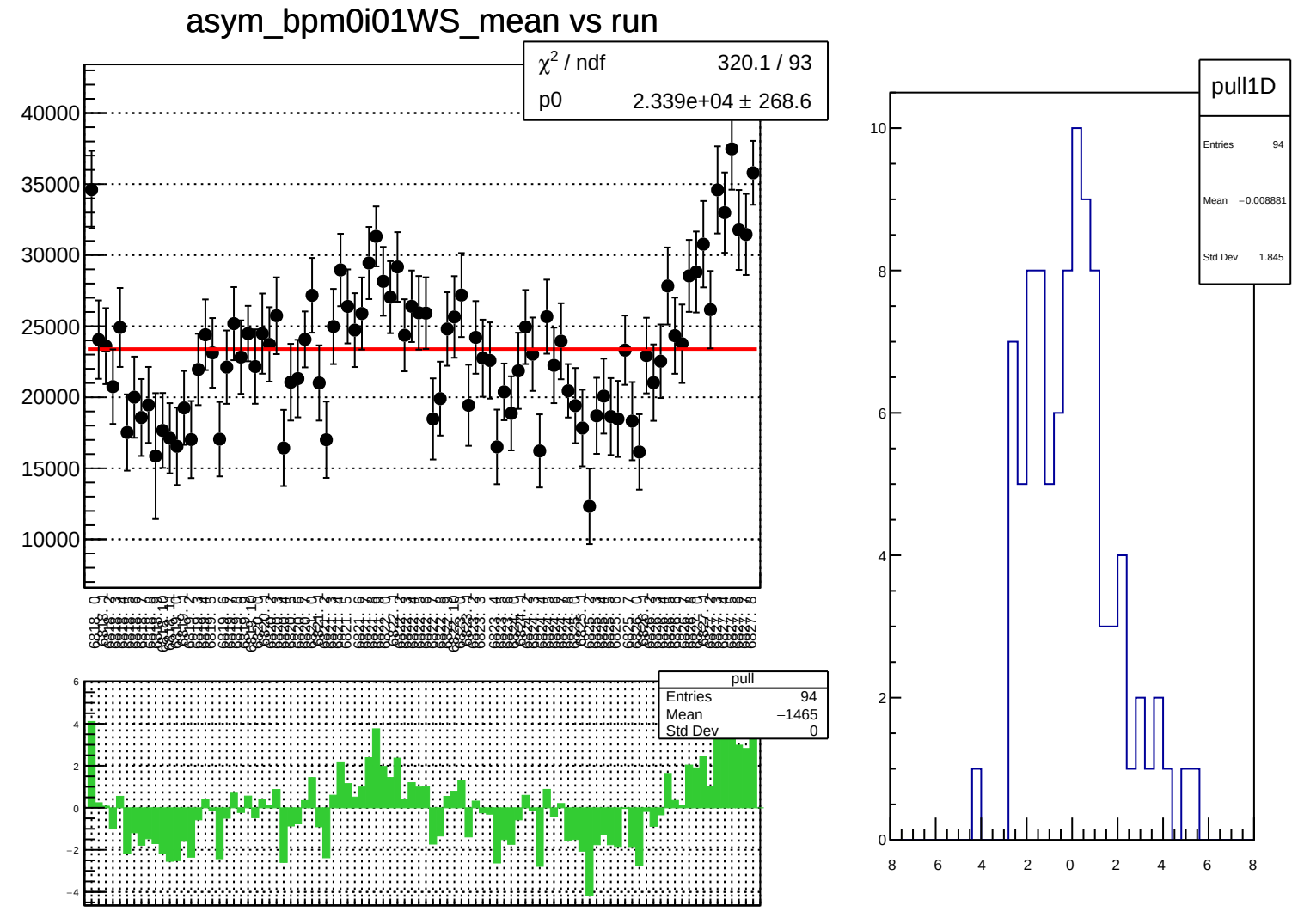

pull1D
Entries 94
Mean −0.05433
Std Dev 3.275
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

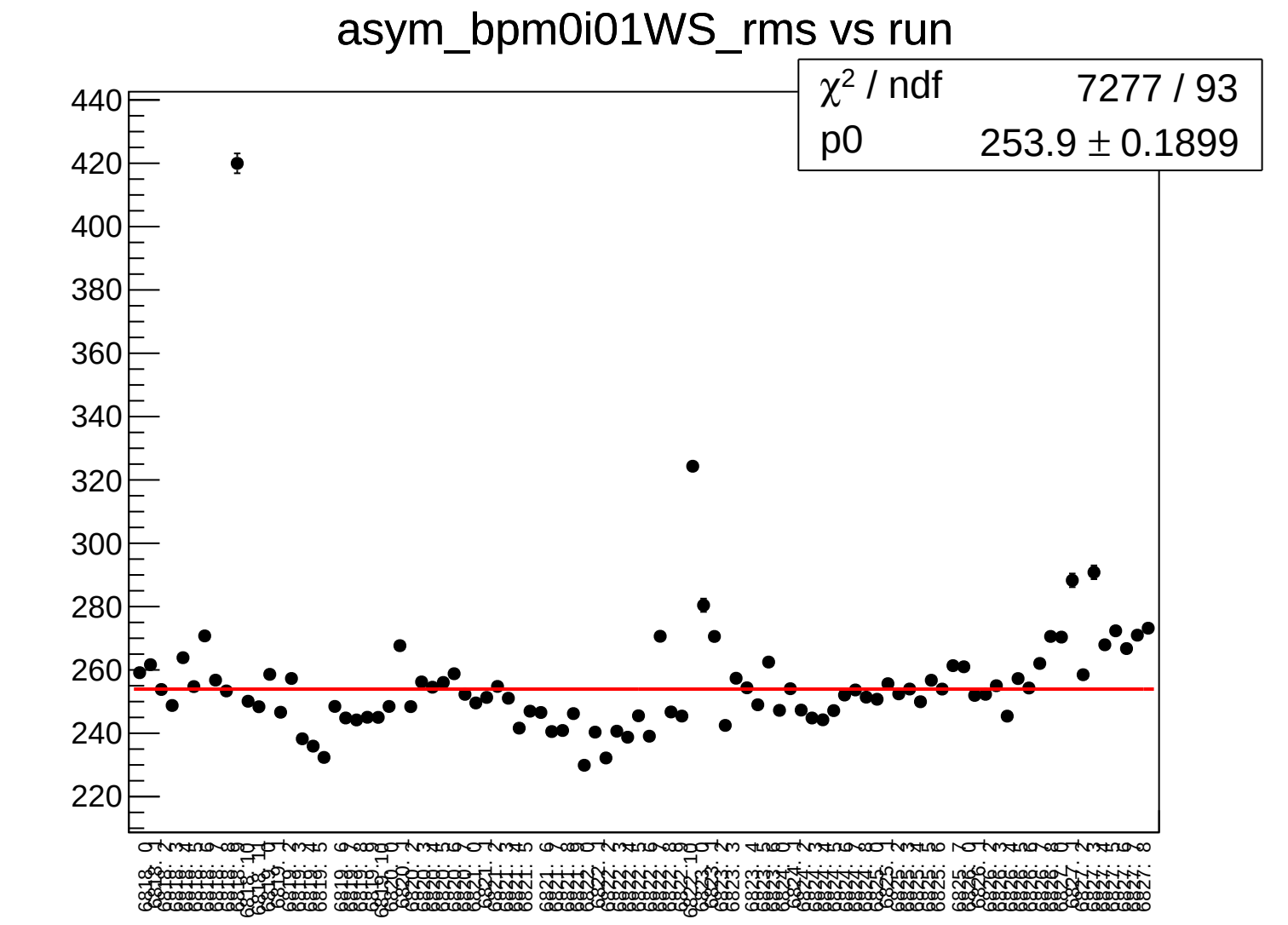

asym_bpm2i01WS_rms vs run
χ² / ndf 2.766e+04 / 93
p0 108.8 ± 0.08184
300
250
200
150
100

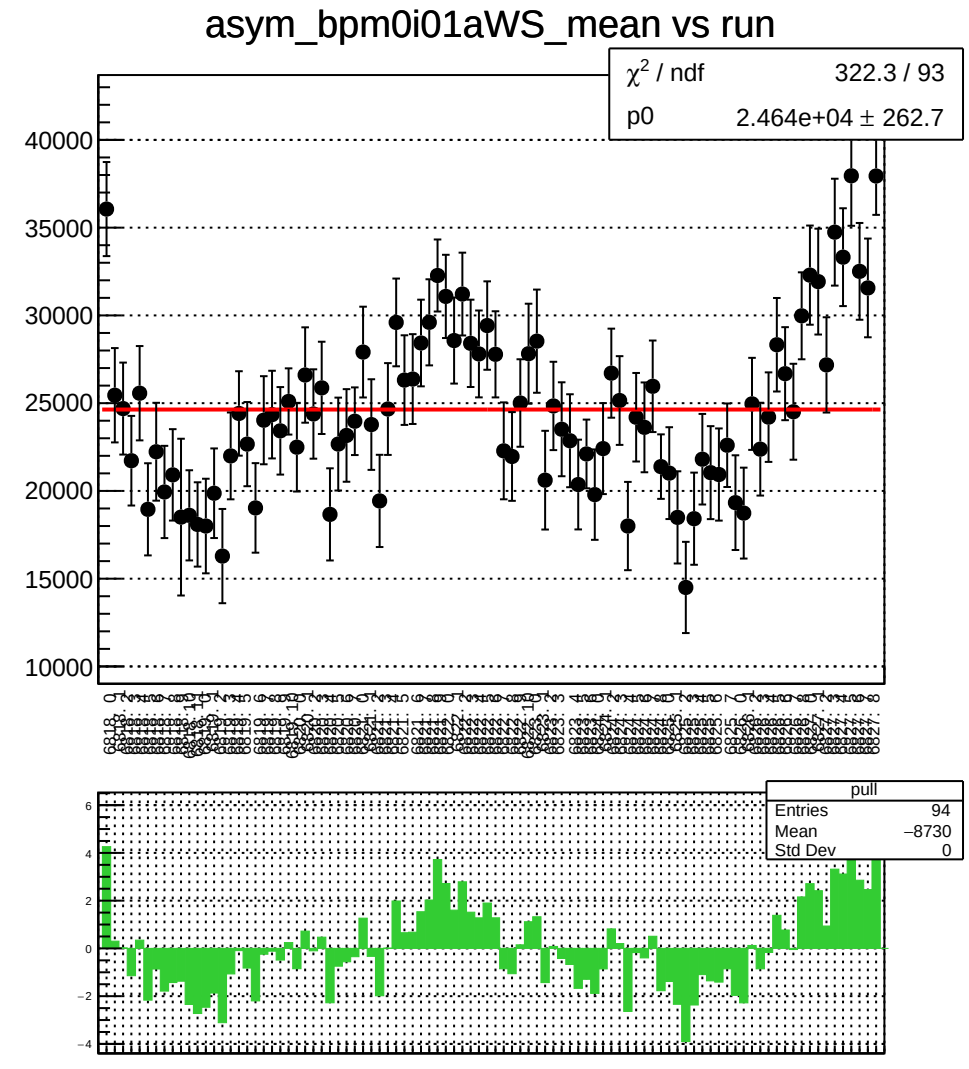

asym_bpm2i02WS_mean vs run
χ² / ndf 1297 / 93
p0 7446 ± 113
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 524.3
Std Dev 0
10
5
0
−5
−10

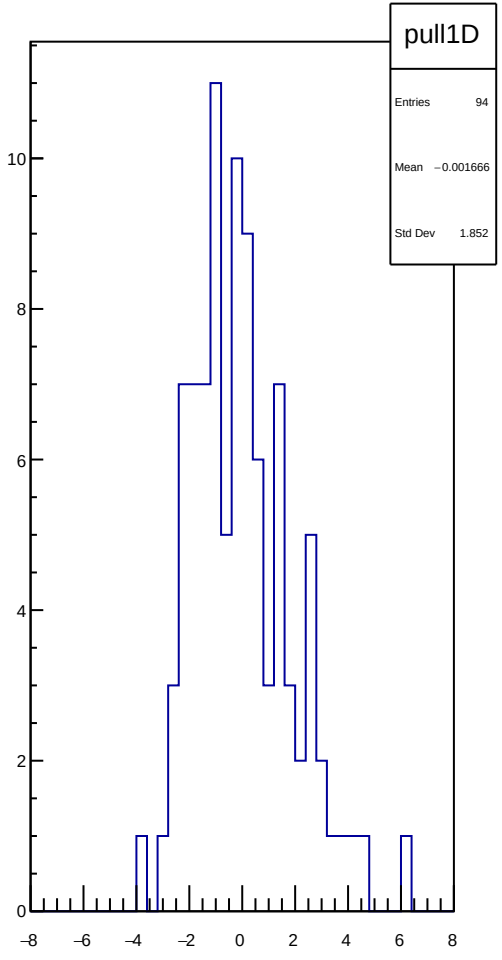

pull1D
Entries 94
Mean −0.1503
Std Dev 3.293
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

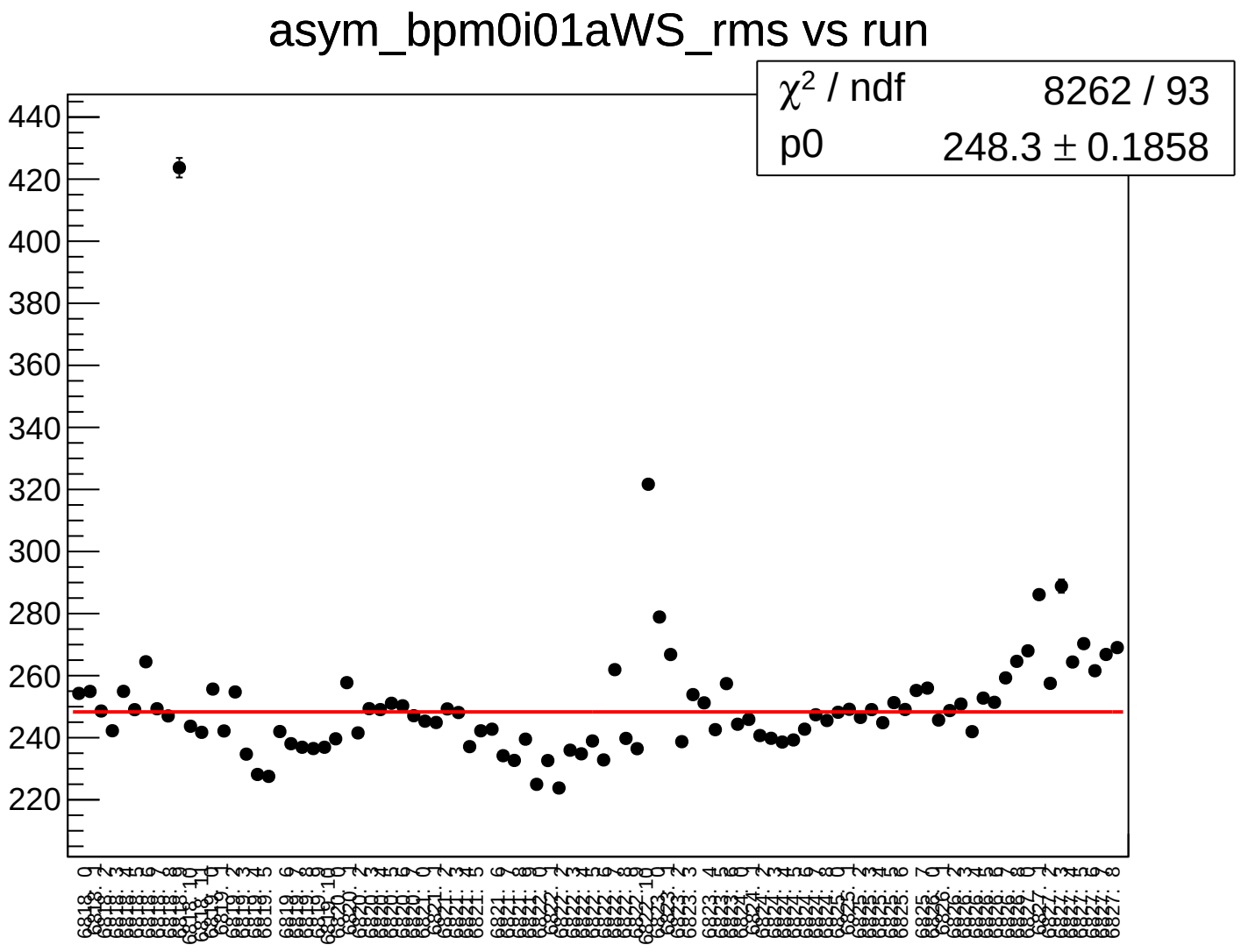

asym_bpm2i02WS_rms vs run
χ² / ndf 3.174e+04 / 93
p0 106.1 ± 0.07987
300
250
200
150
100

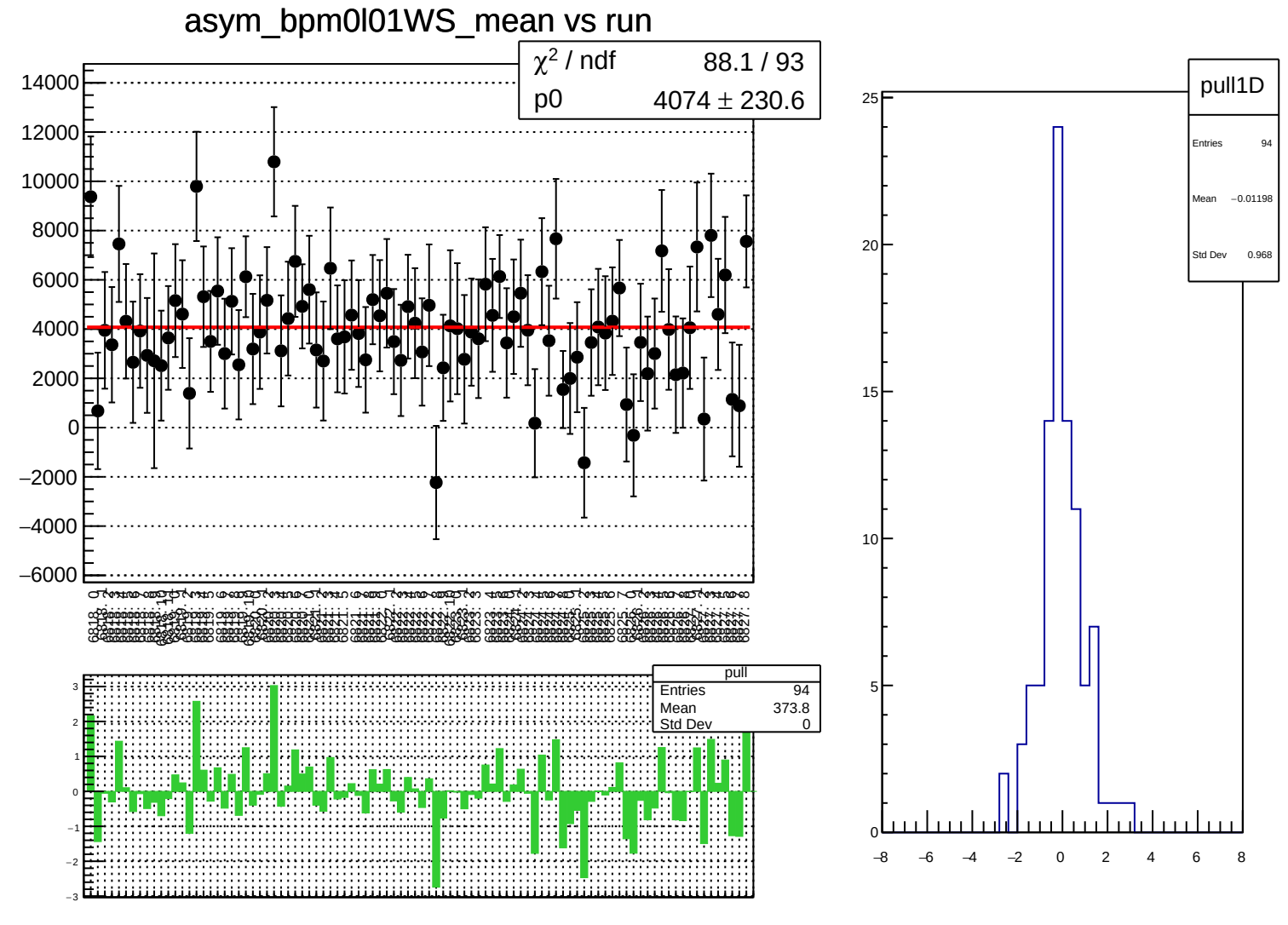

asym_bpm0i01WS_mean vs run
χ² / ndf 320.1 / 93
p0 2.339e+04 ± 268.6
40000
35000
30000
25000
20000
15000
10000
pull
Entries 94
Mean −1465
Std Dev 0
6
4
2
0
−2
−4
pull1D
Entries 94
Mean −0.008881
Std Dev 1.845
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

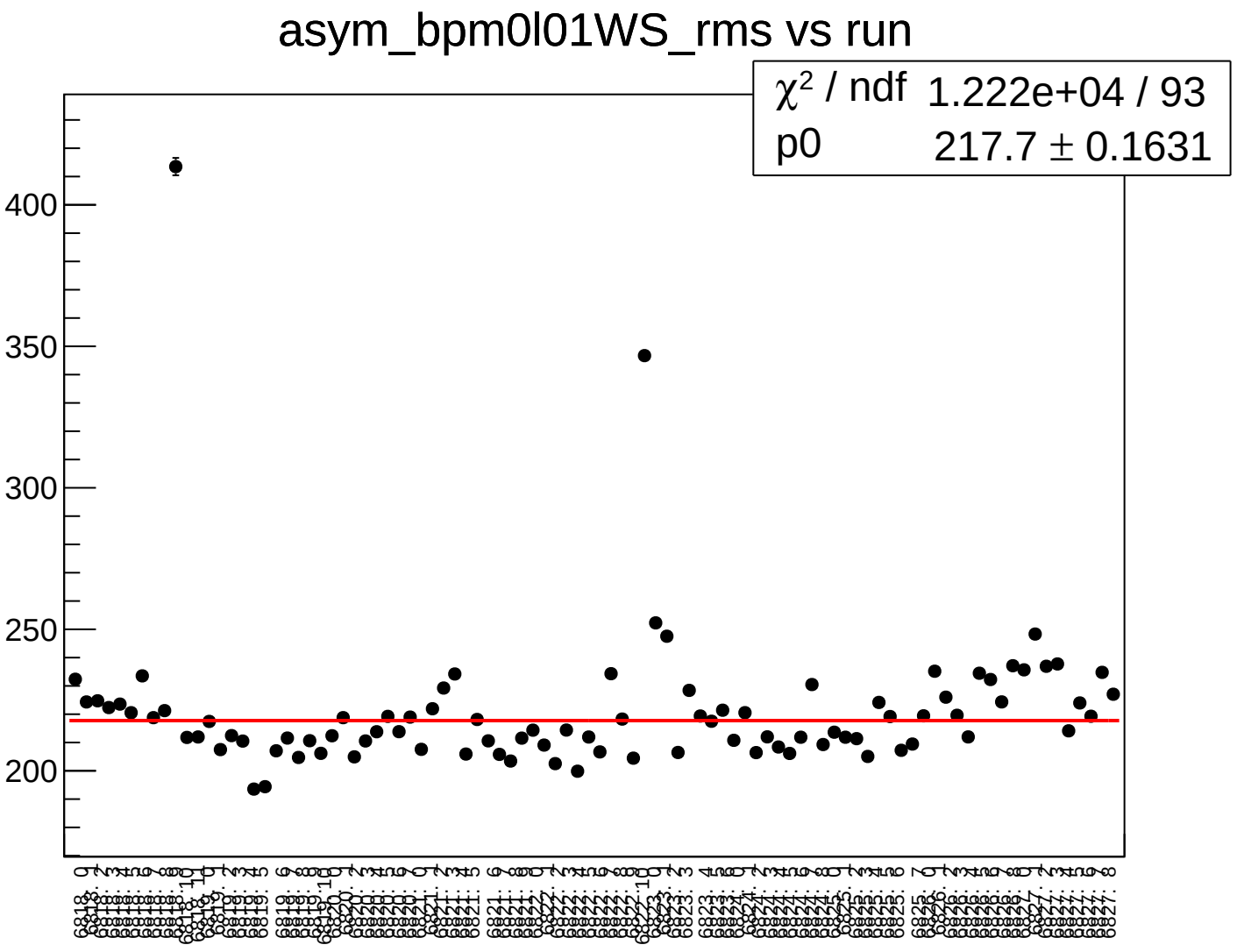

asym_bpm0i01WS_rms vs run
χ^2 / ndf 7277 / 93
p0 253.9 ± 0.1899
440
420
400
380
360
340
320
300
280
260
240
220

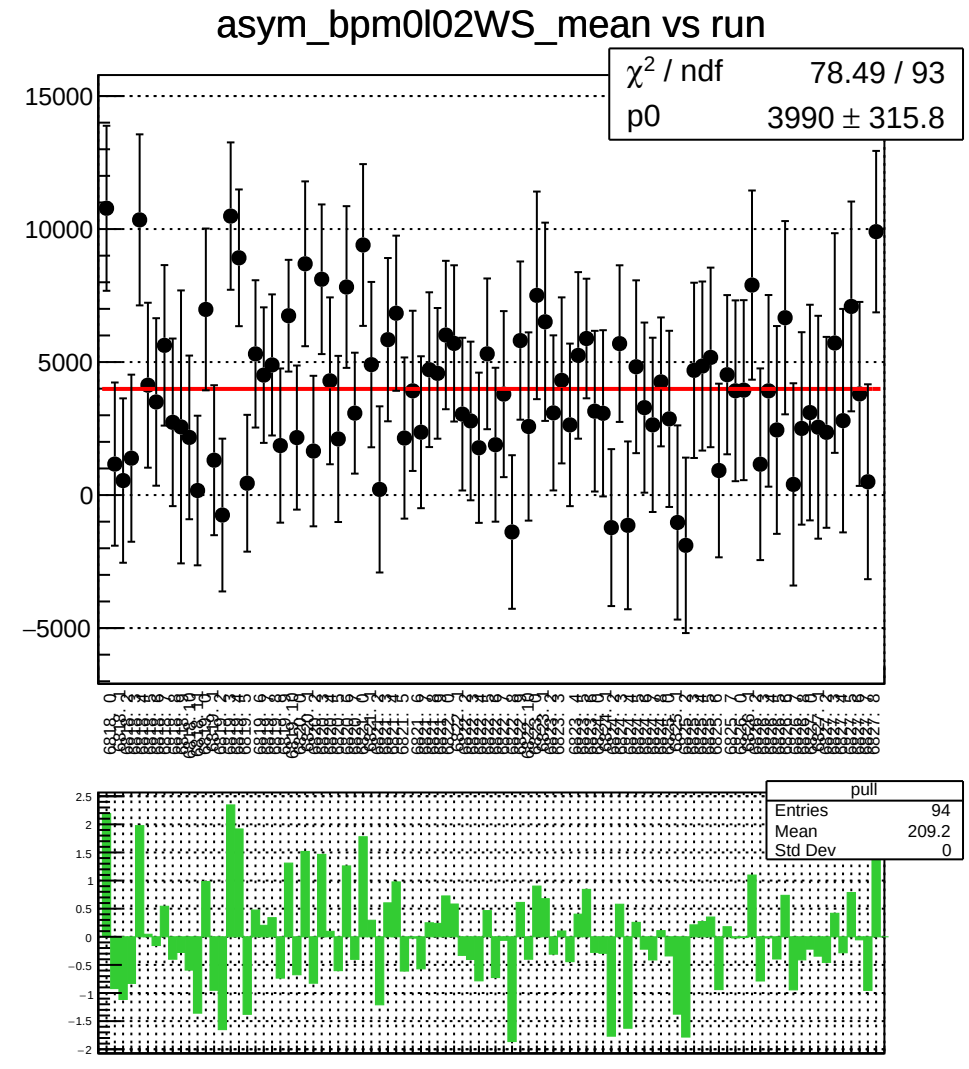

asym_bpm0i01aWS_mean vs run
χ² / ndf 322.3 / 93
p0 2.464e+04 ± 262.7
40000
35000
30000
25000
20000
15000
10000
pull
Entries 94
Mean −8730
Std Dev 0
6
4
2
0
−2
−4

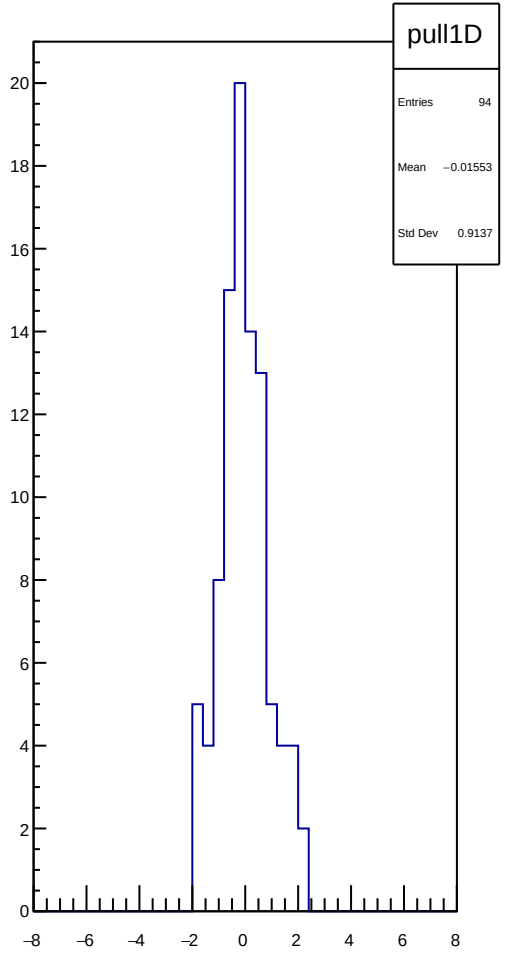

pull1D
Entries 94
Mean −0.001666
Std Dev 1.852
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

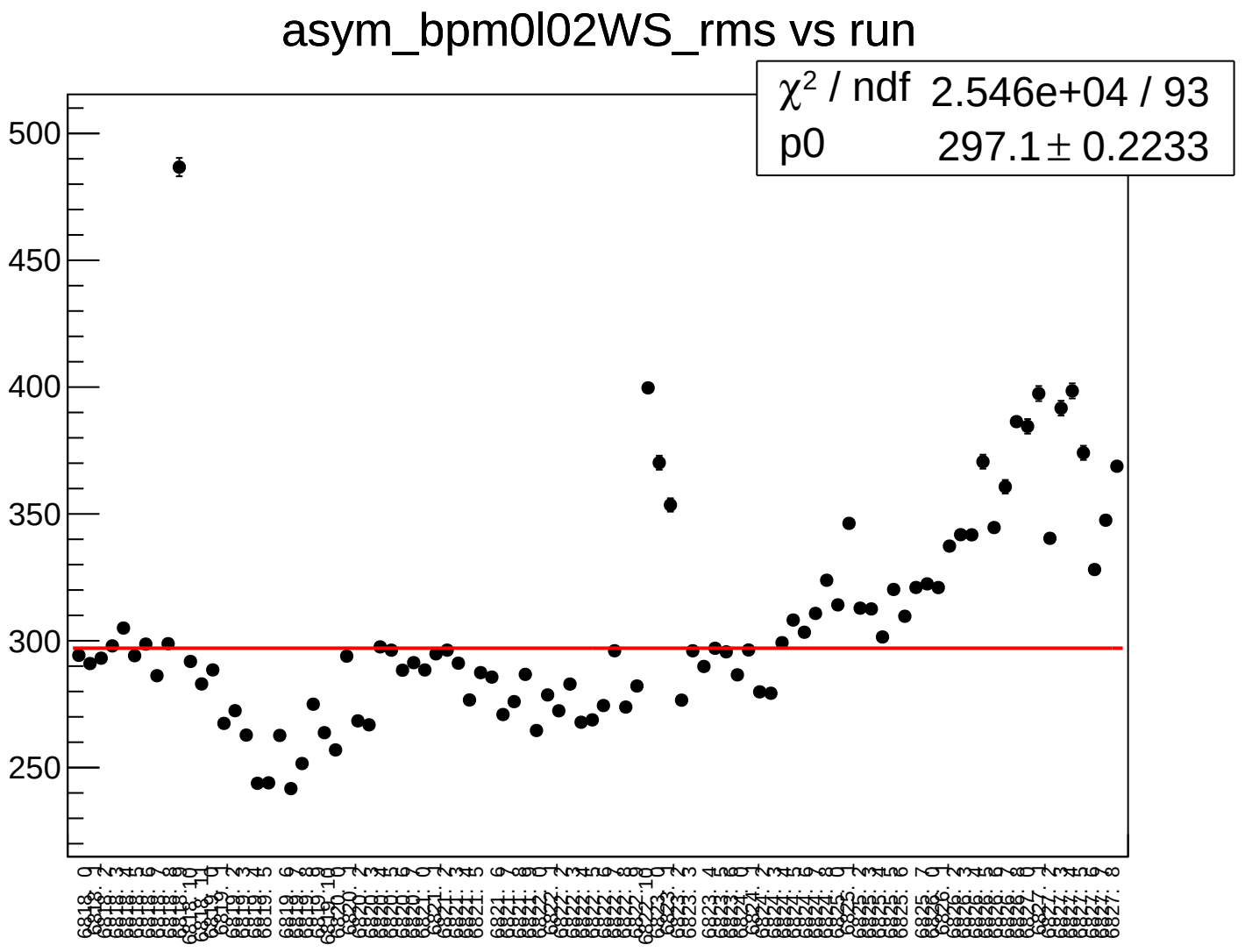

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 8262 / 93
p0 248.3 ± 0.1858
440
420
400
380
360
340
320
300
280
260
240
220

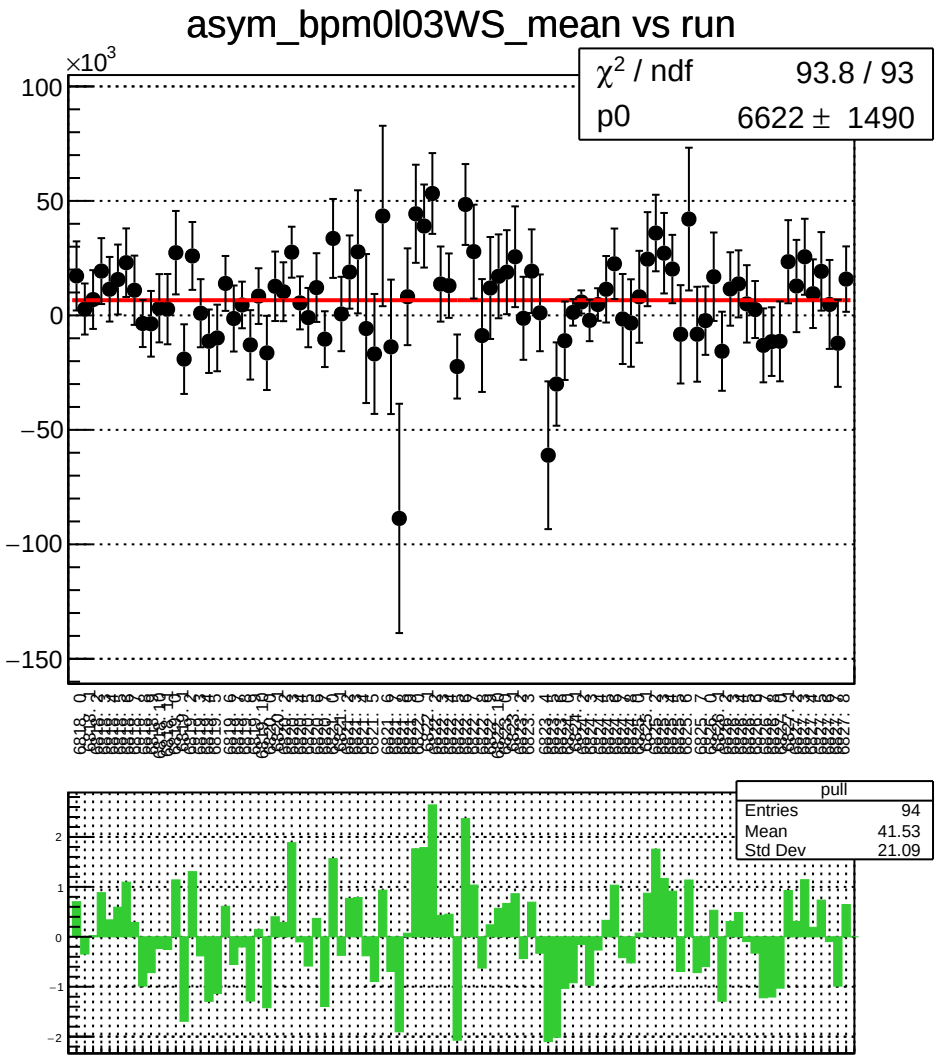

asym_bpm0l01WS_mean vs run
χ² / ndf 88.1 / 93
p0 4074 ± 230.6
pull
Entries 94
Mean 373.8
Std Dev 0
pull1D
Entries 94
Mean −0.01198
Std Dev 0.968

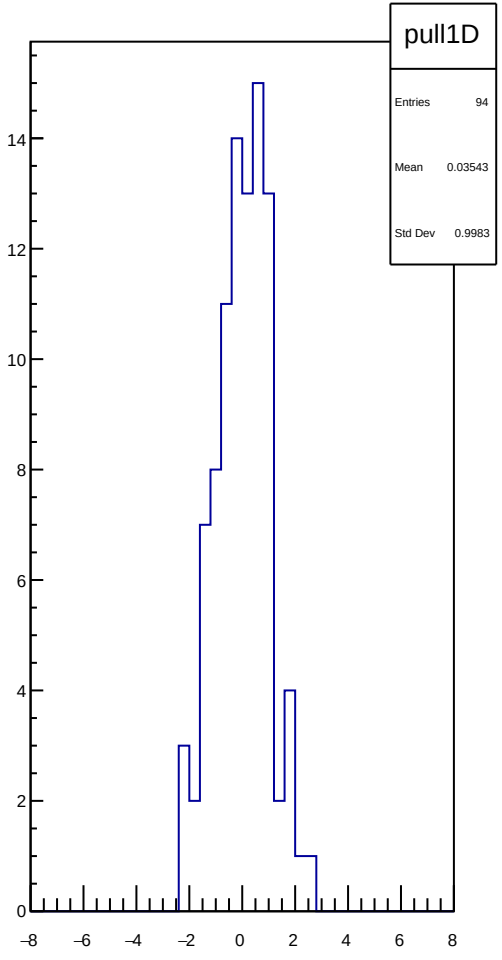

asym_bpm0l01WS_rms vs run
χ² / ndf 1.222e+04 / 93
p0 217.7 ± 0.1631
400
350
300
250
200

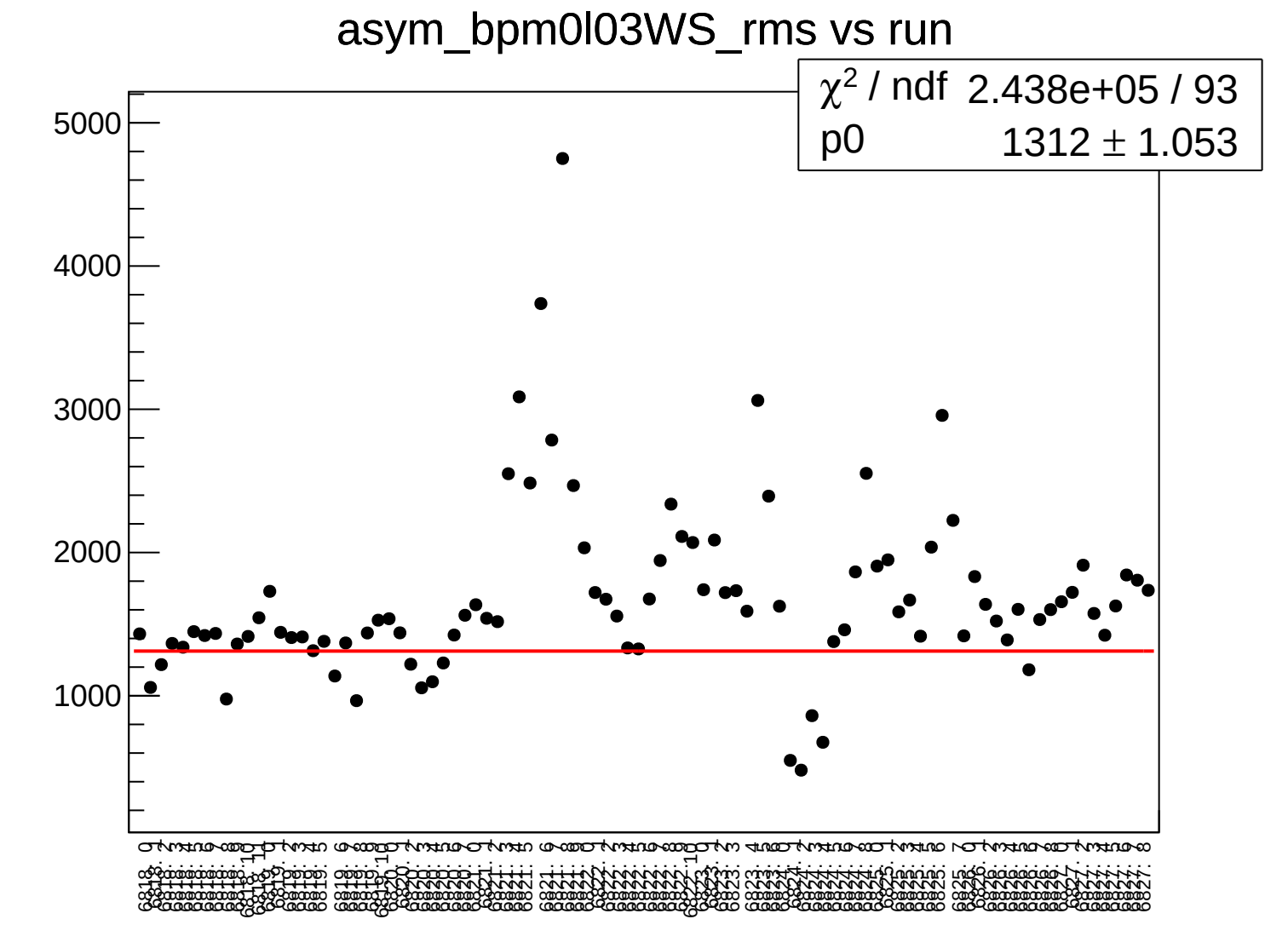

asym_bpm0l02WS_mean vs run
χ² / ndf 78.49 / 93
p0 3990 ± 315.8
15000
10000
5000
0
−5000
pull
Entries 94
Mean 209.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

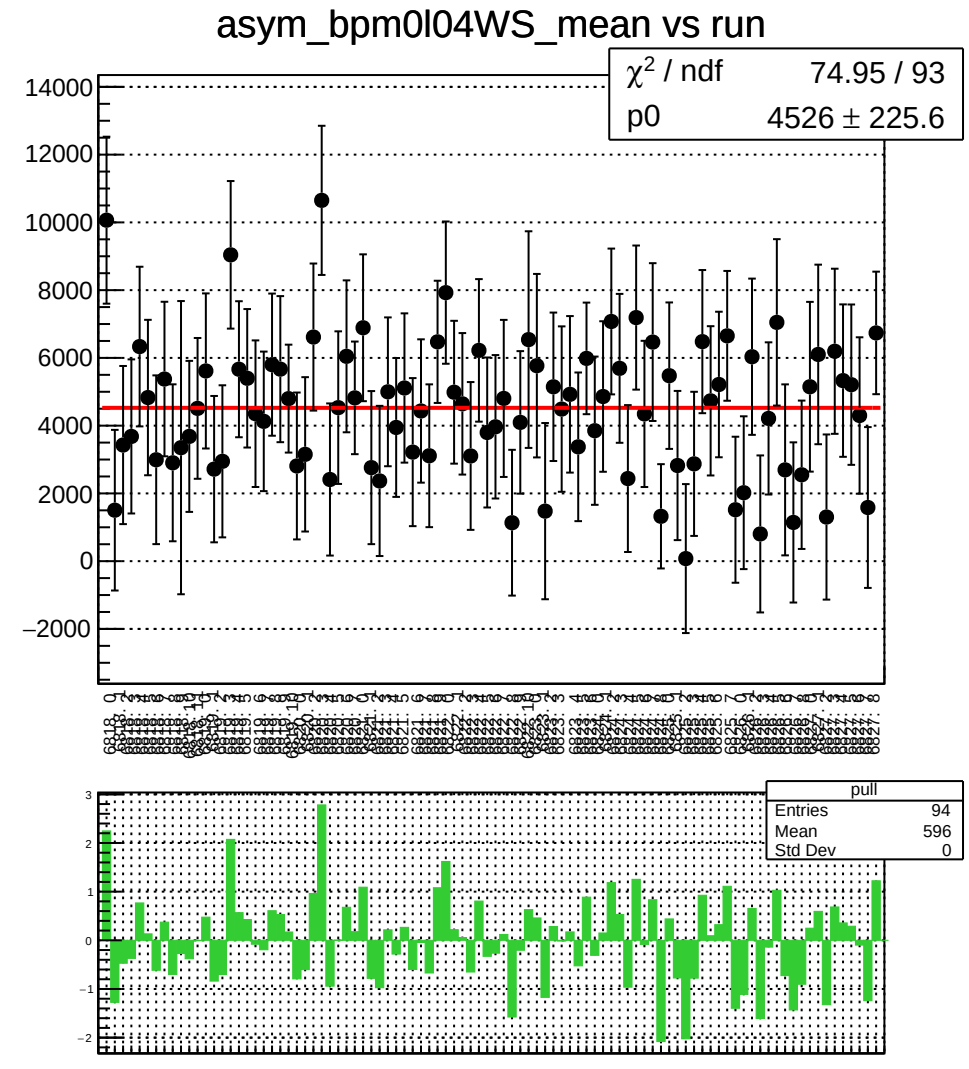

pull1D
Entries 94
Mean −0.01553
Std Dev 0.9137
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

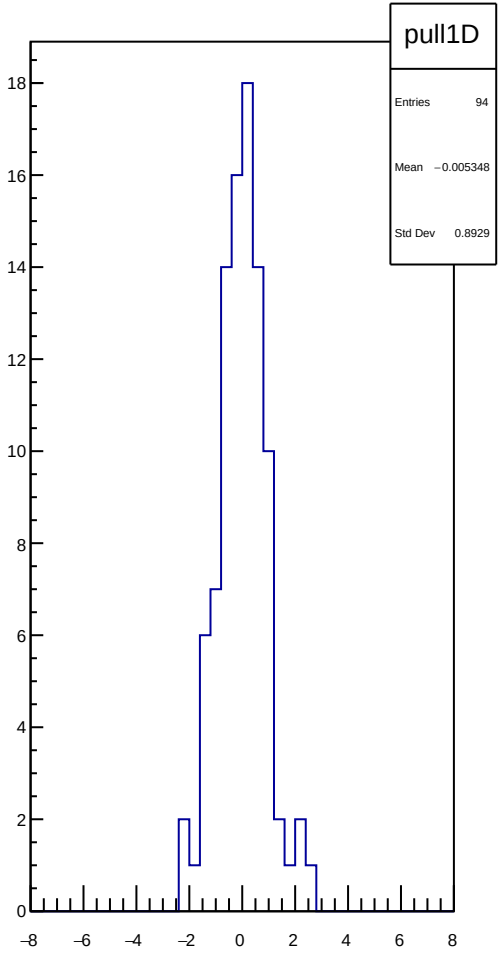

asym_bpm0l02WS_rms vs run
χ² / ndf 2.546e+04 / 93
p0 297.1 ± 0.2233
500
450
400
350
300
250

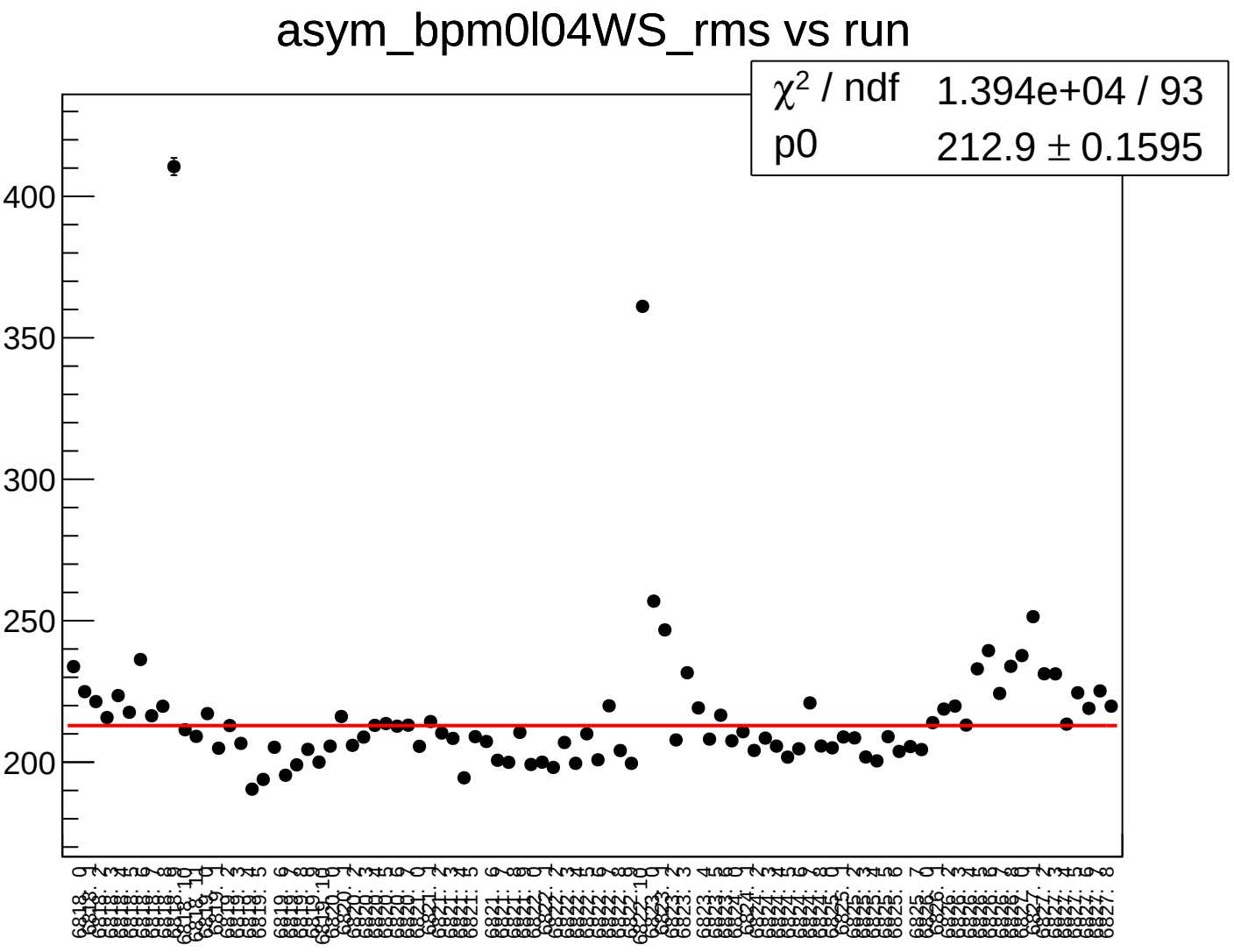

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 93.8 / 93
p0 6622 ± 1490
pull
Entries 94
Mean 41.53
Std Dev 21.09

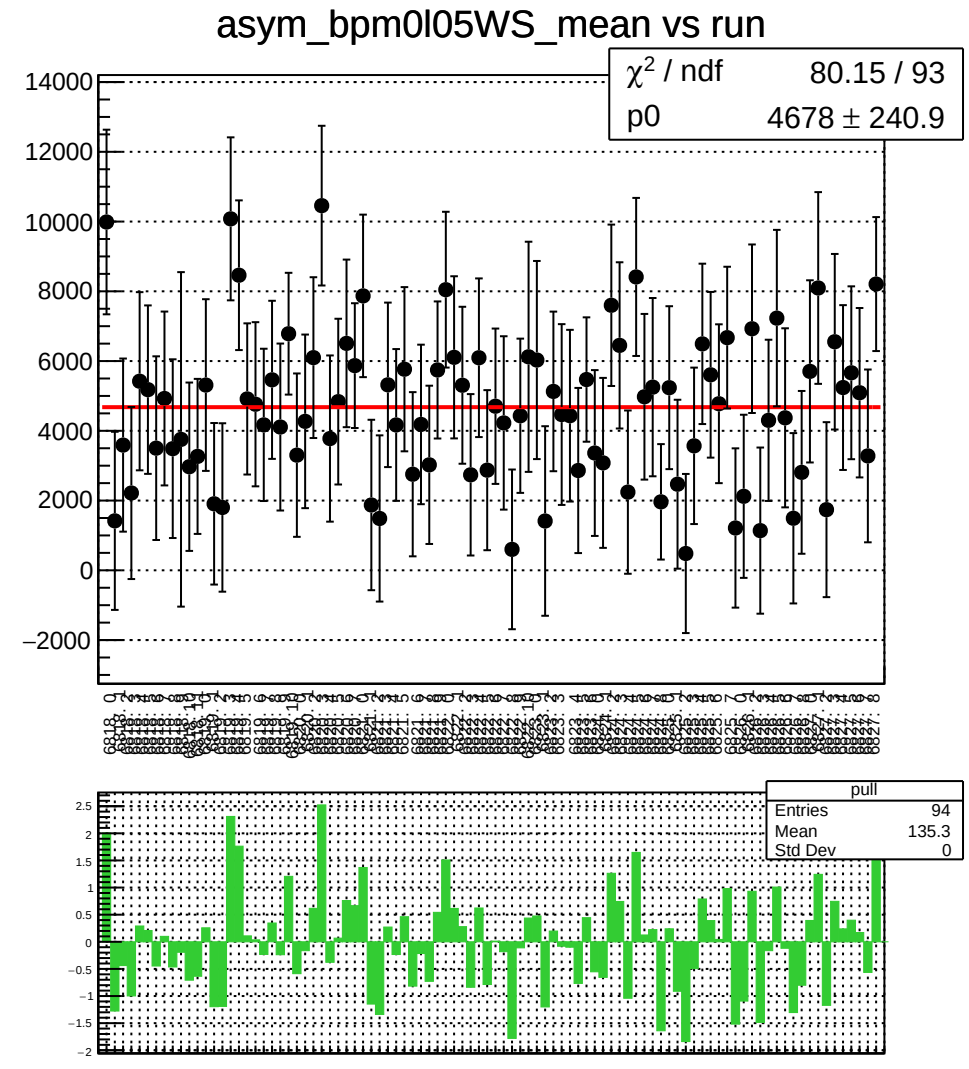

pull1D
Entries 94
Mean 0.03543
Std Dev 0.9983

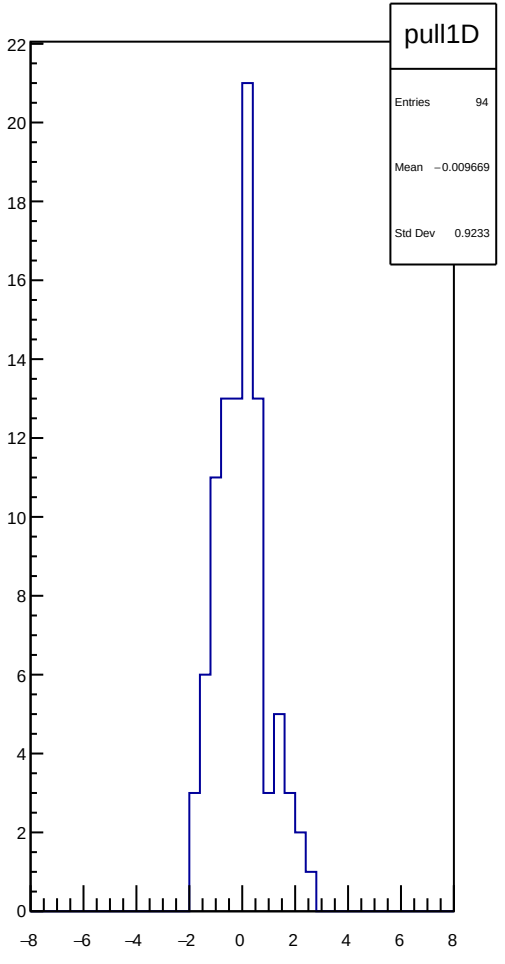

asym_bpm0l03WS_rms vs run
χ^2 / ndf 2.438e+05 / 93
p0 1312 ± 1.053
5000
4000
3000
2000
1000

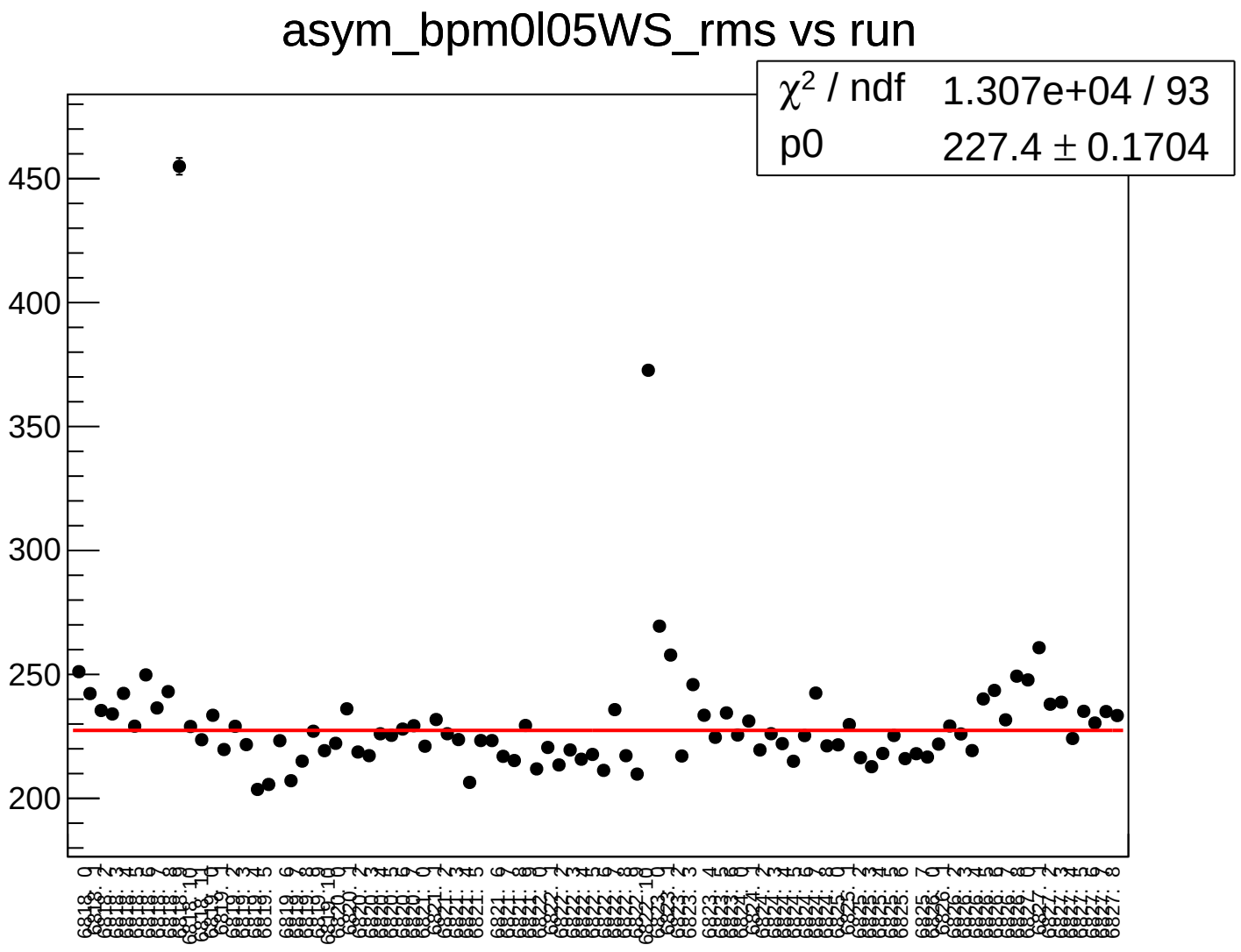

asym_bpm0l04WS_mean vs run
χ² / ndf 74.95 / 93
p0 4526 ± 225.6
pull
Entries 94
Mean 596
Std Dev 0

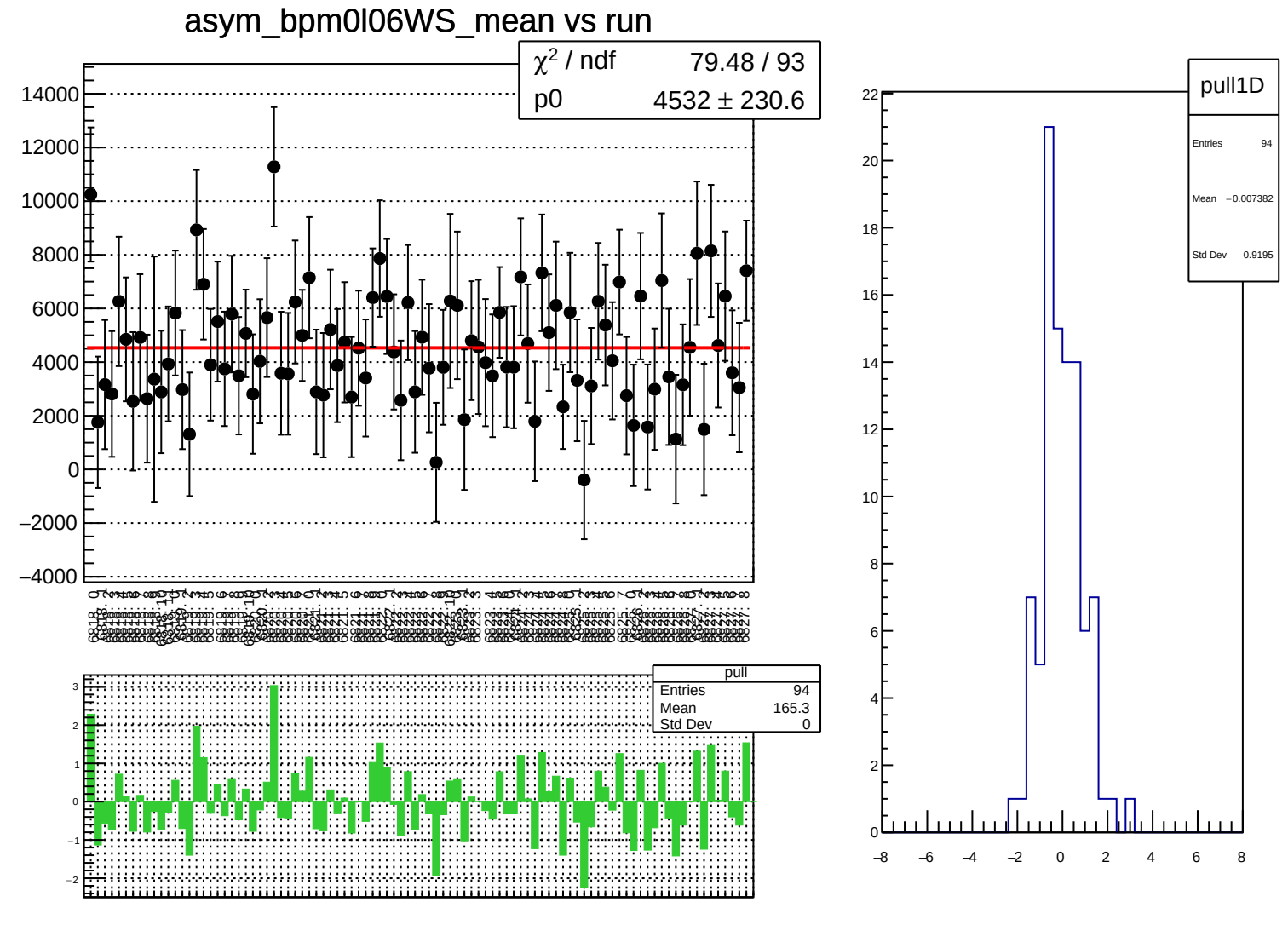

pull1D
Entries 94
Mean −0.005348
Std Dev 0.8929

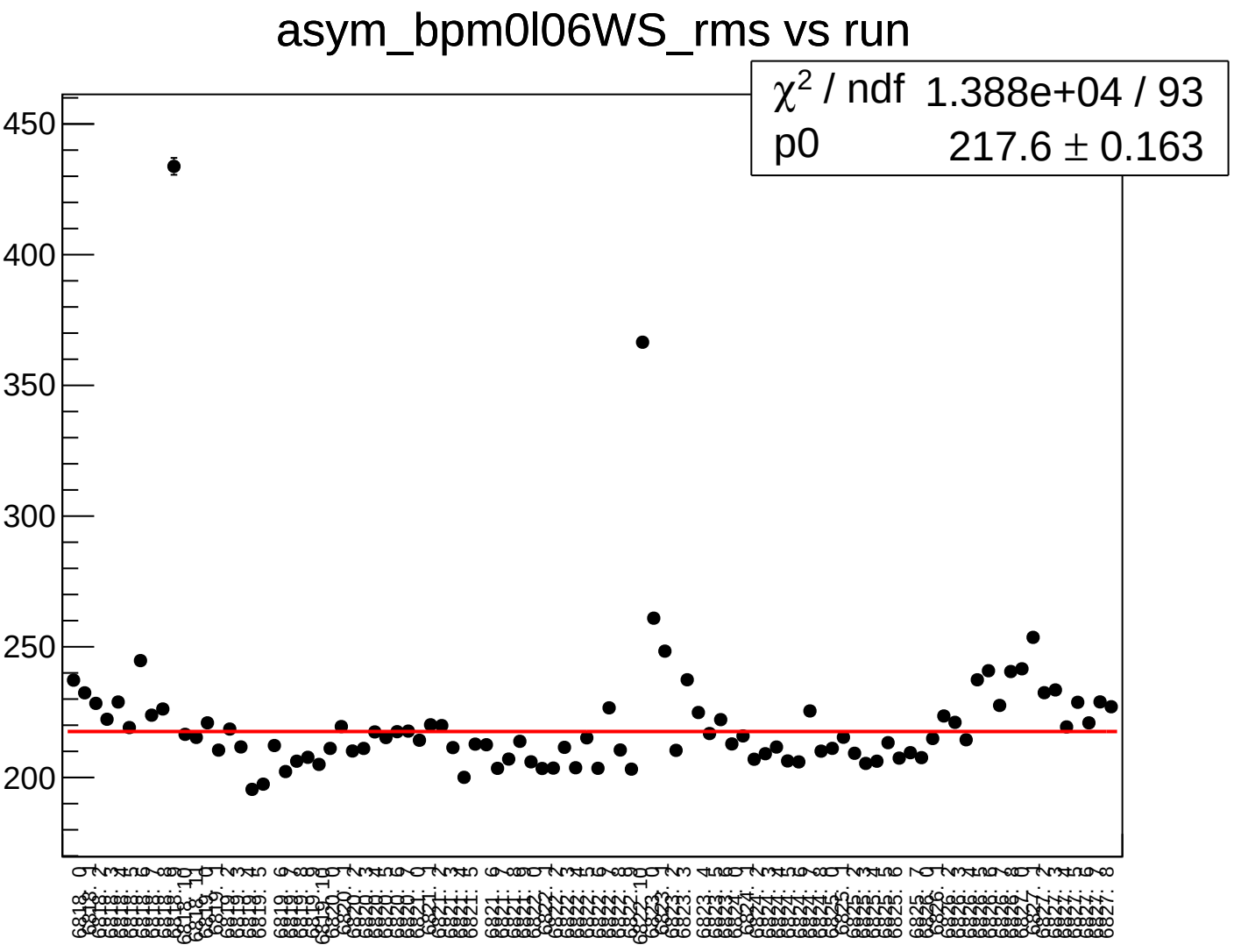

asym_bpm0l04WS_rms vs run
χ² / ndf 1.394e+04 / 93
p0 212.9 ± 0.1595
400
350
300
250
200

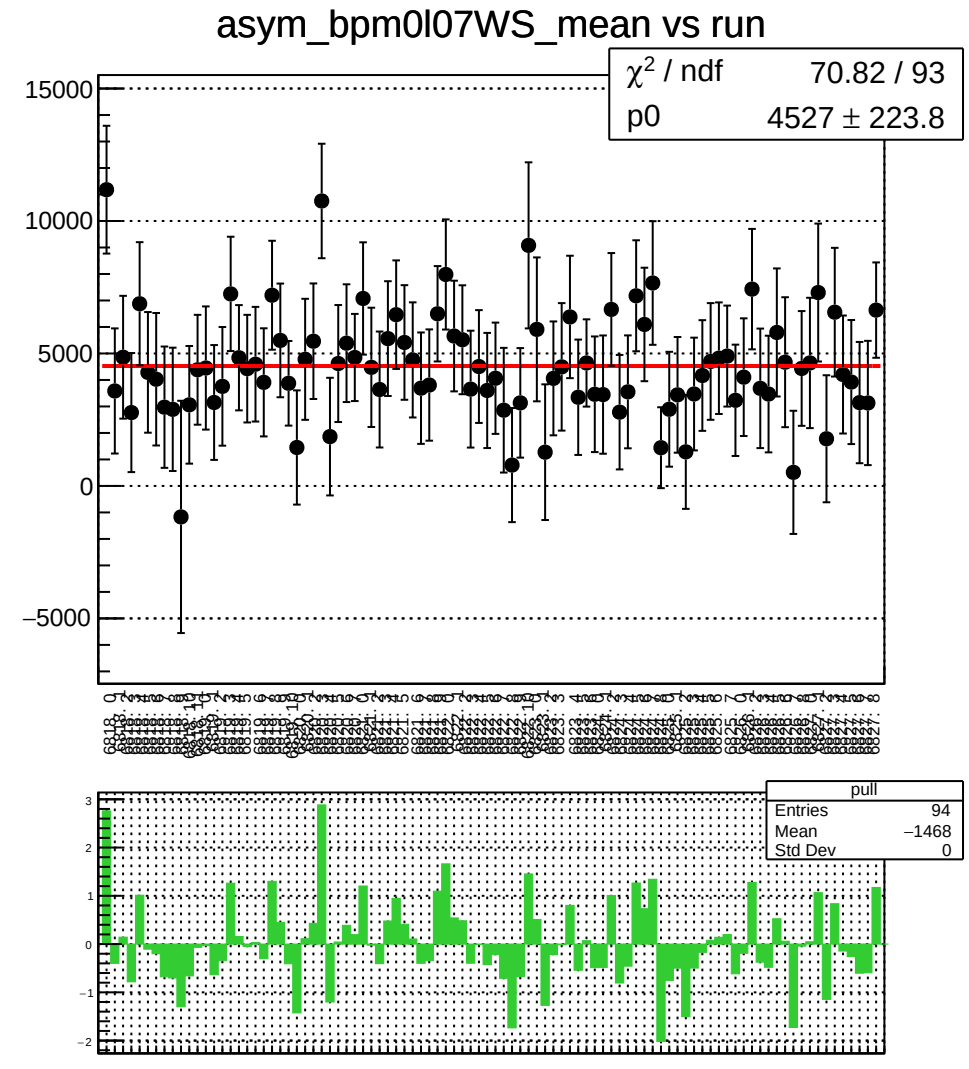

asym_bpm0l05WS_mean vs run
χ² / ndf 80.15 / 93
p0 4678 ± 240.9
pull
Entries 94
Mean 135.3
Std Dev 0

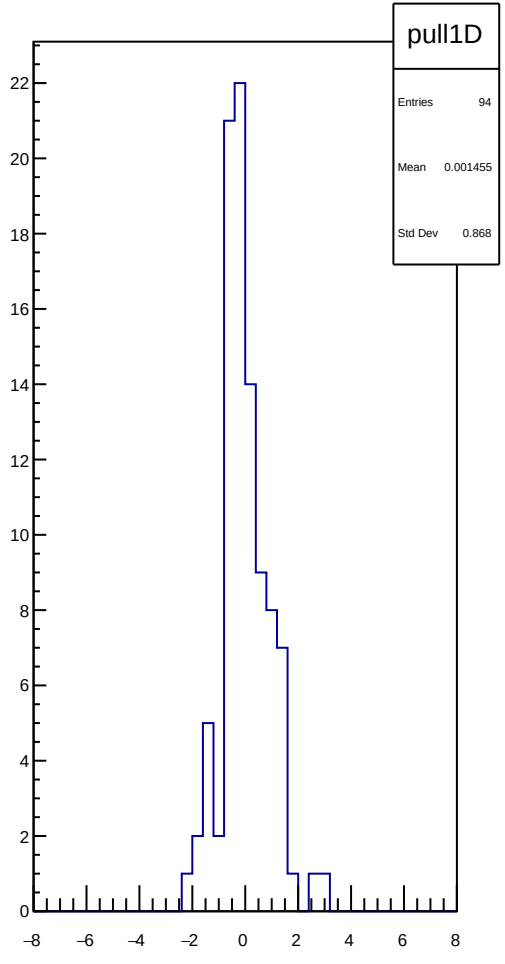

pull1D
Entries 94
Mean −0.009669
Std Dev 0.9233

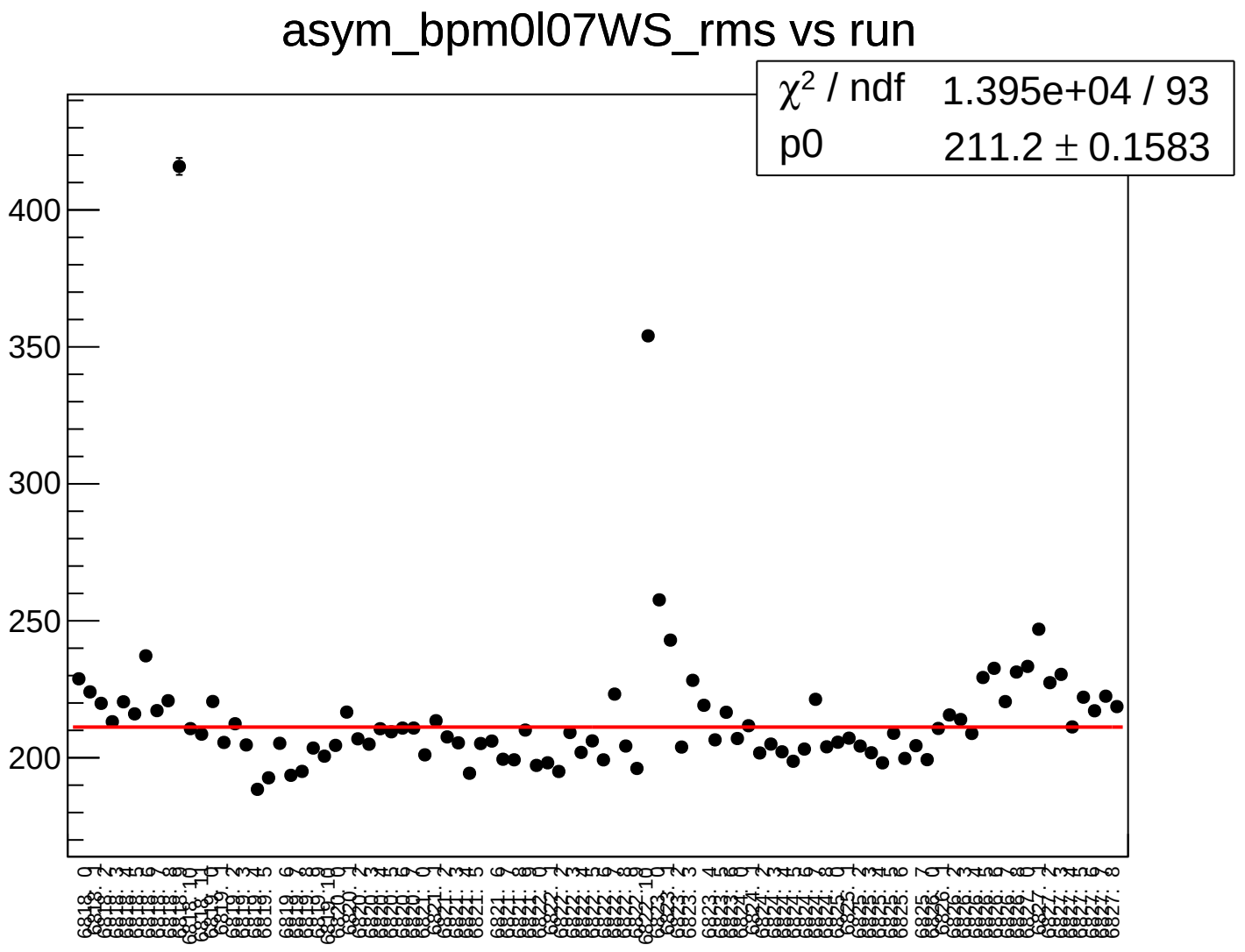

asym_bpm0l05WS_rms vs run
χ² / ndf 1.307e+04 / 93
p0 227.4 ± 0.1704
450
400
350
300
250
200

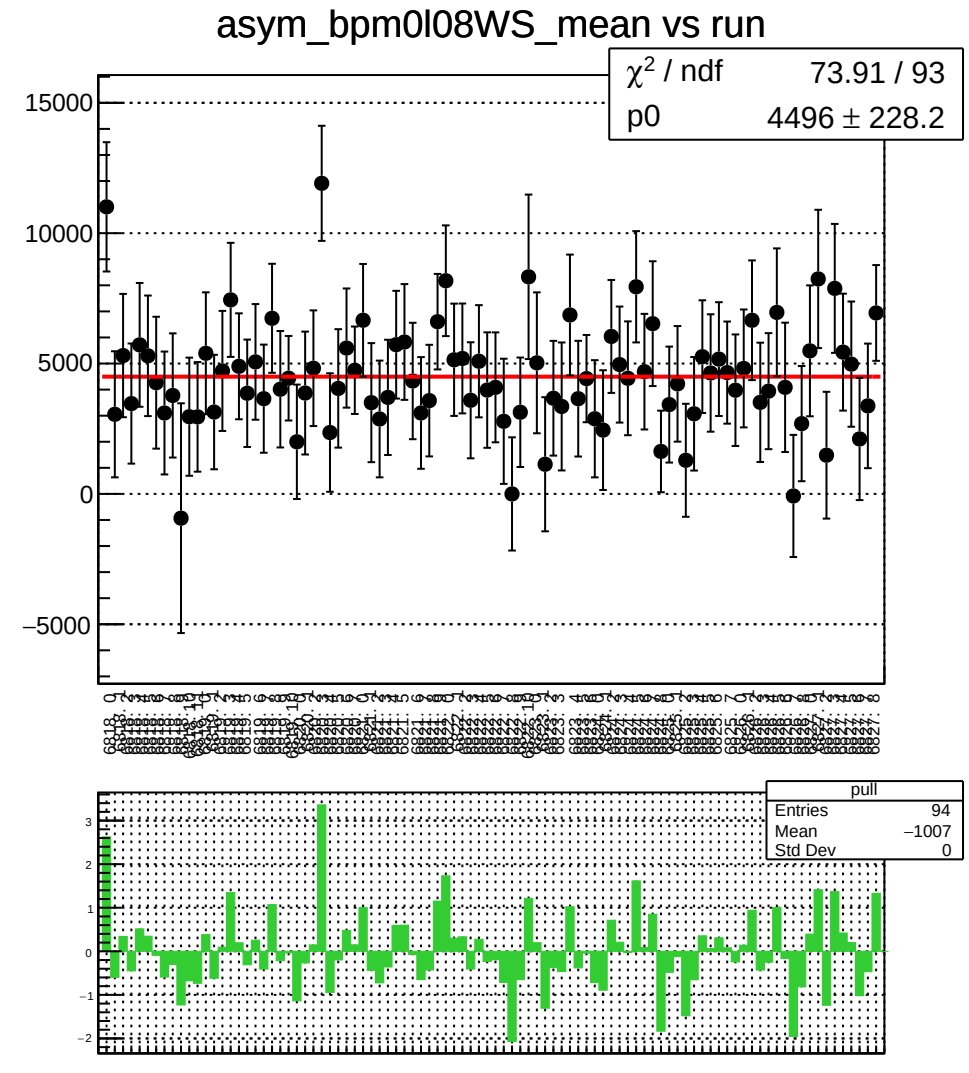

asym_bpm0l06WS_mean vs run
χ² / ndf 79.48 / 93
p0 4532 ± 230.6
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 165.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.007382
Std Dev 0.9195
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

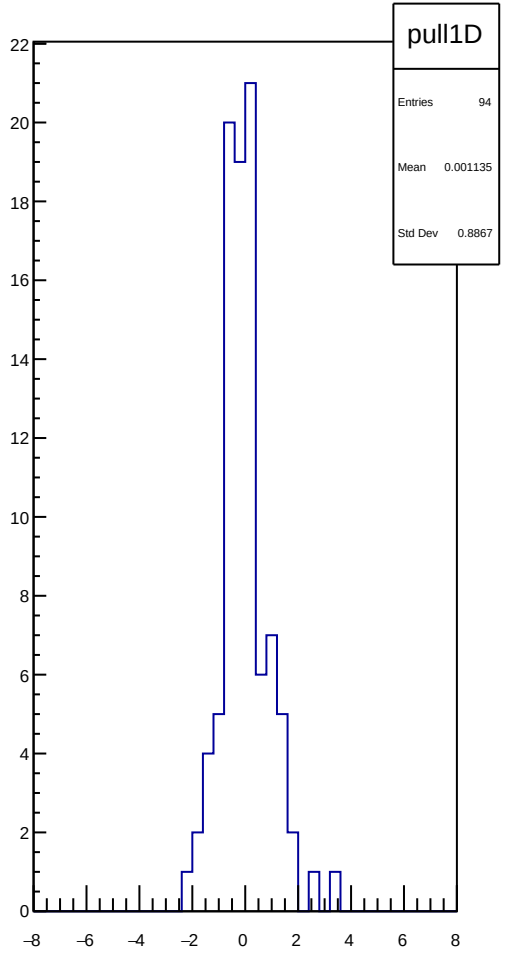

asym_bpm0l06WS_rms vs run
χ^2 / ndf 1.388e+04 / 93
p0 217.6 ± 0.163
450
400
350
300
250
200

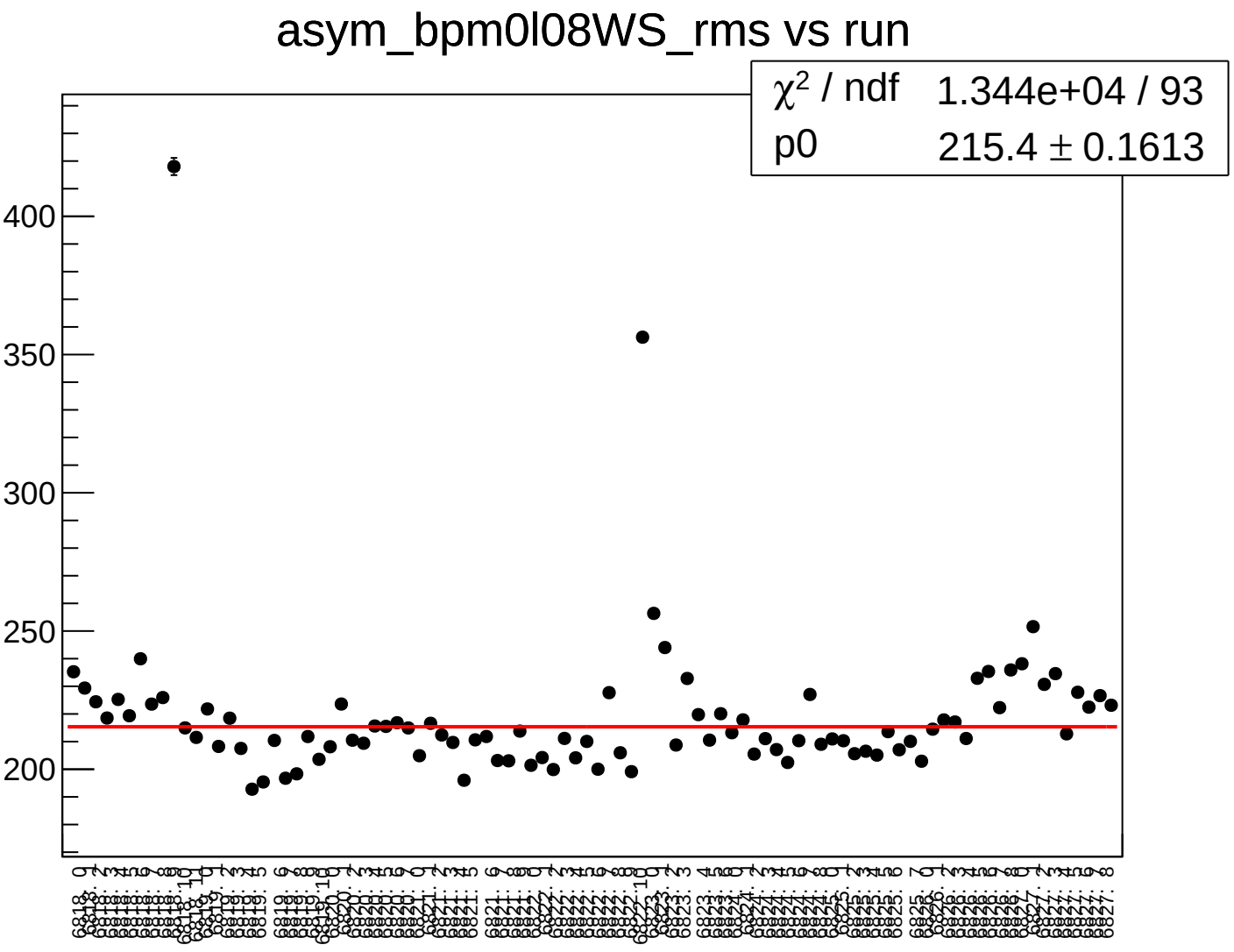

asym_bpm0l07WS_mean vs run
χ² / ndf 70.82 / 93
p0 4527 ± 223.8
15000
10000
5000
0
−5000
pull
Entries 94
Mean −1468
Std Dev 0
3
2
1
0
−1
−2

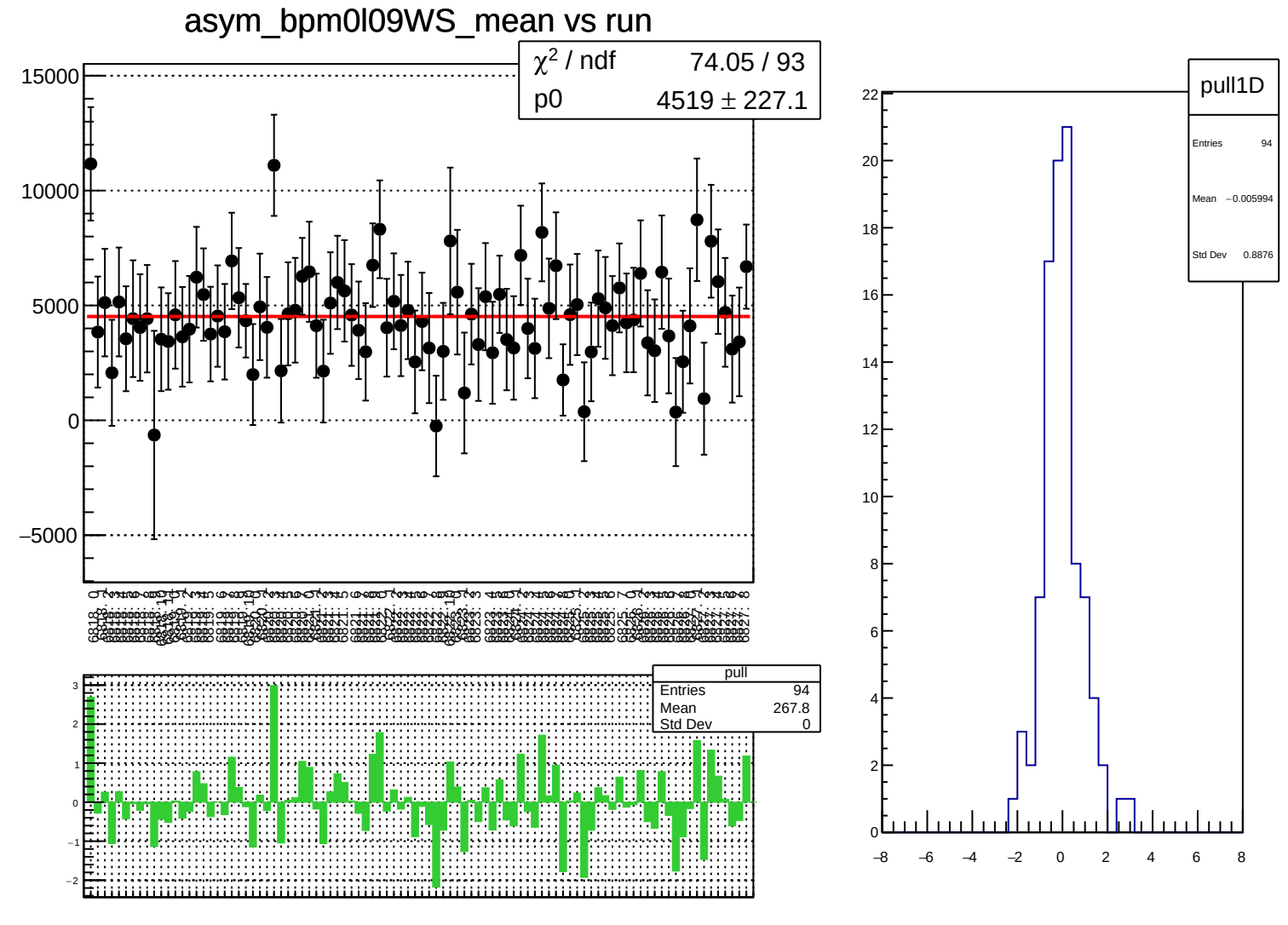

pull1D
Entries 94
Mean 0.001455
Std Dev 0.868
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

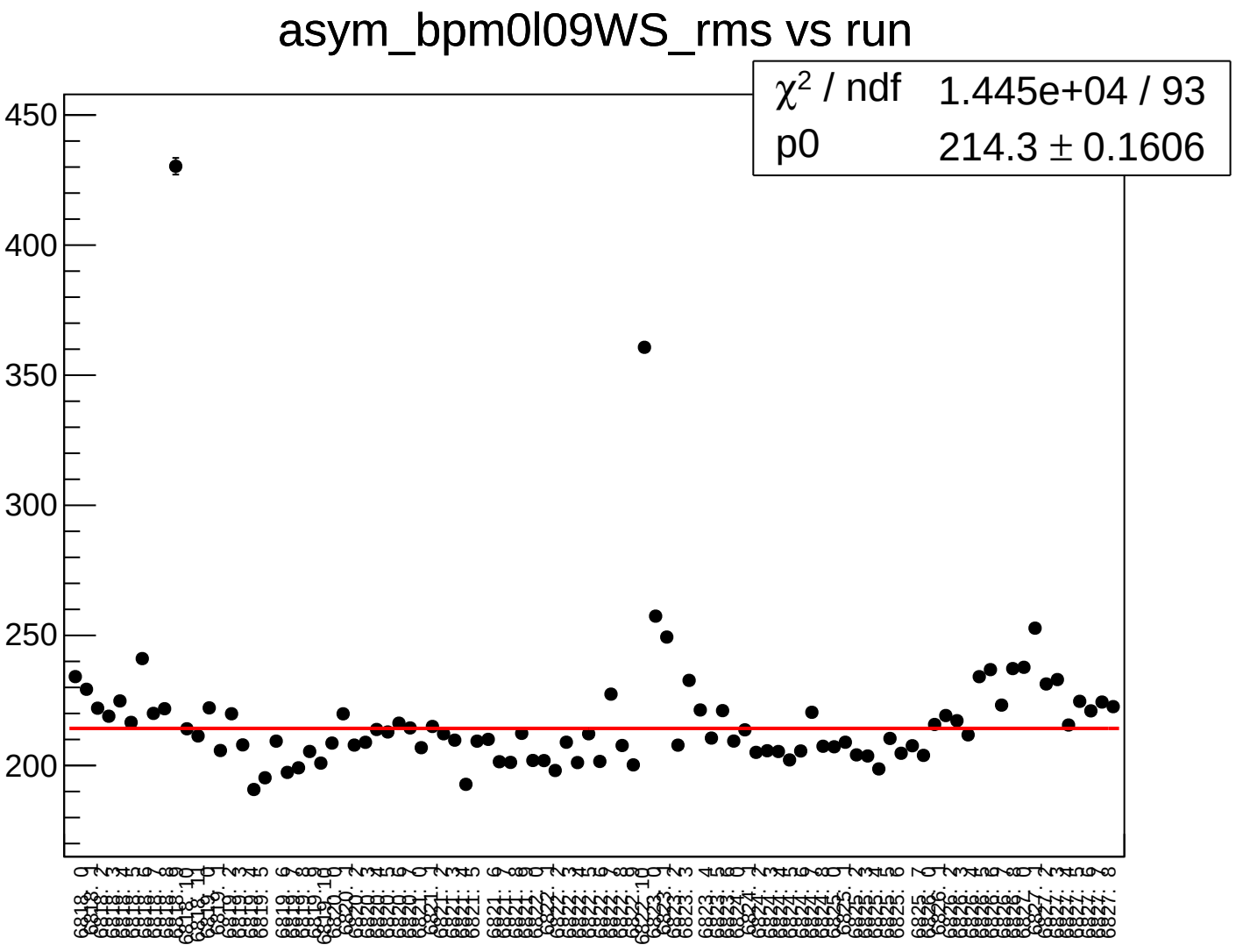

asym_bpm0l07WS_rms vs run
χ² / ndf 1.395e+04 / 93
p0 211.2 ± 0.1583
400
350
300
250
200

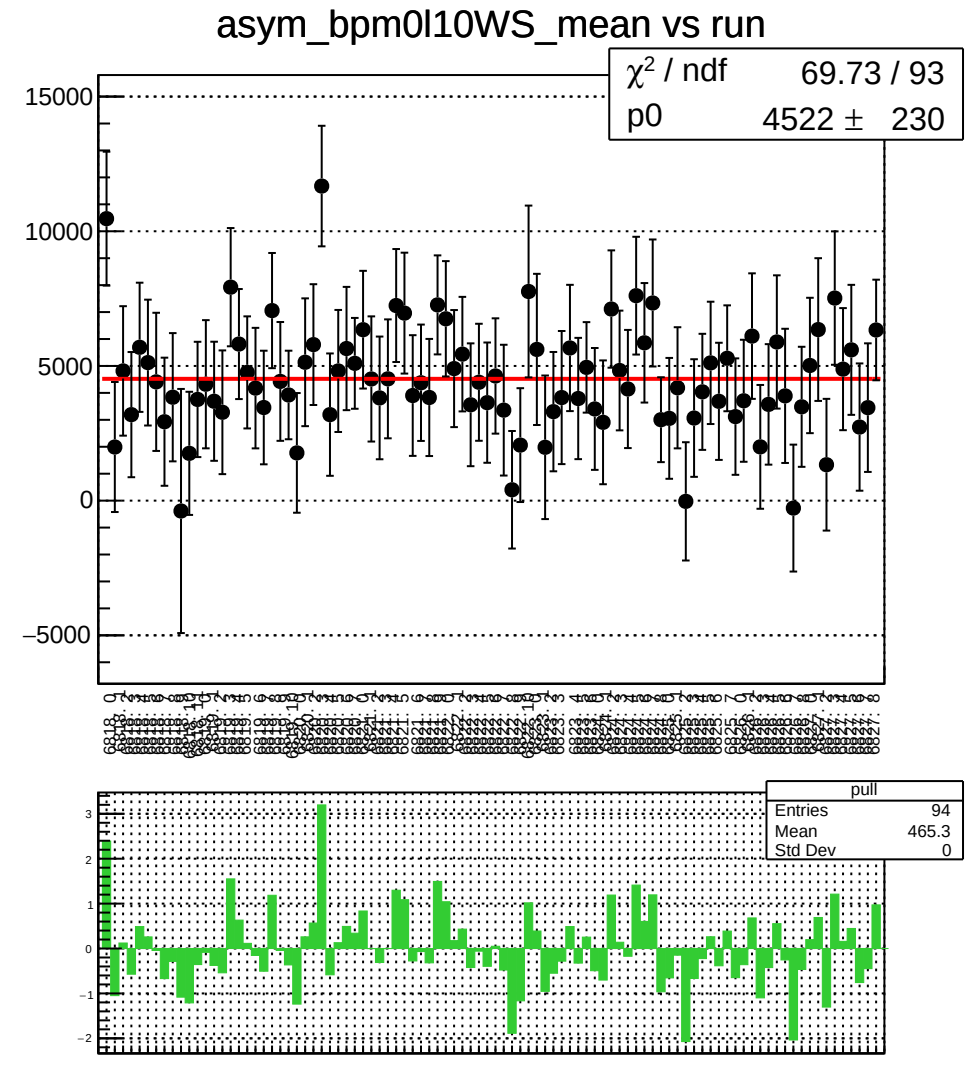

asym_bpm0l08WS_mean vs run
χ² / ndf 73.91 / 93
p0 4496 ± 228.2
15000
10000
5000
0
−5000
pull
Entries 94
Mean −1007
Std Dev 0
3
2
1
0
−1
−2

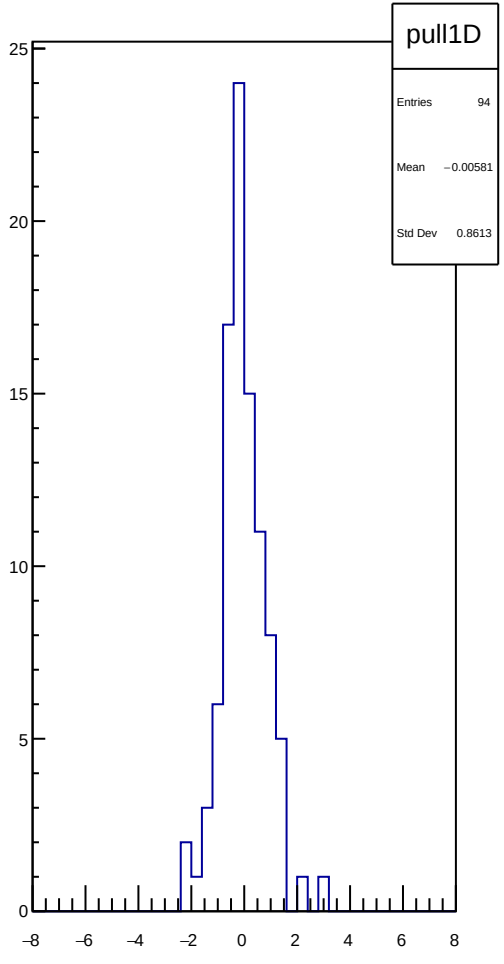

pull1D
Entries 94
Mean 0.001135
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

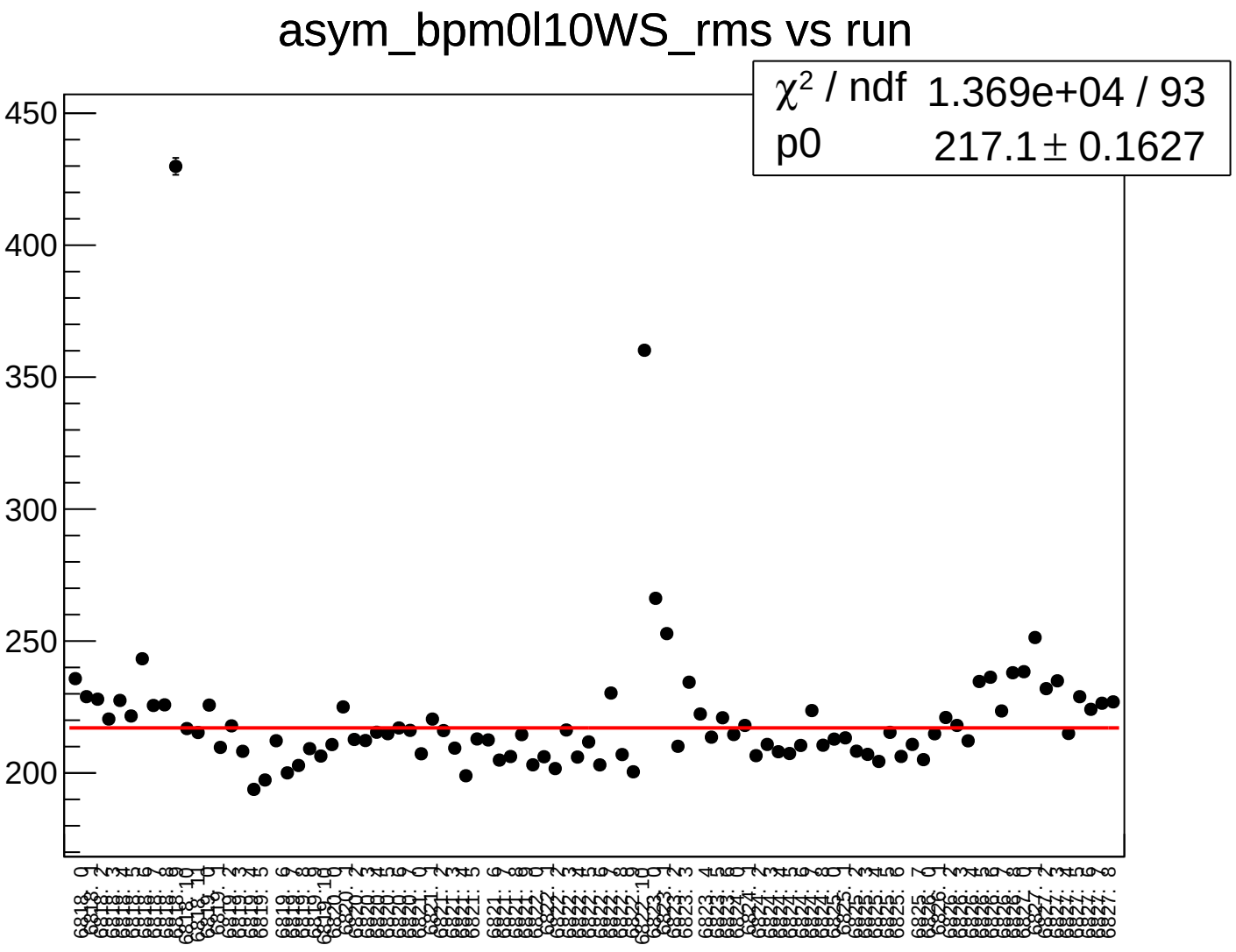

asym_bpm0l08WS_rms vs run
χ² / ndf 1.344e+04 / 93
p0 215.4 ± 0.1613
400
350
300
250
200

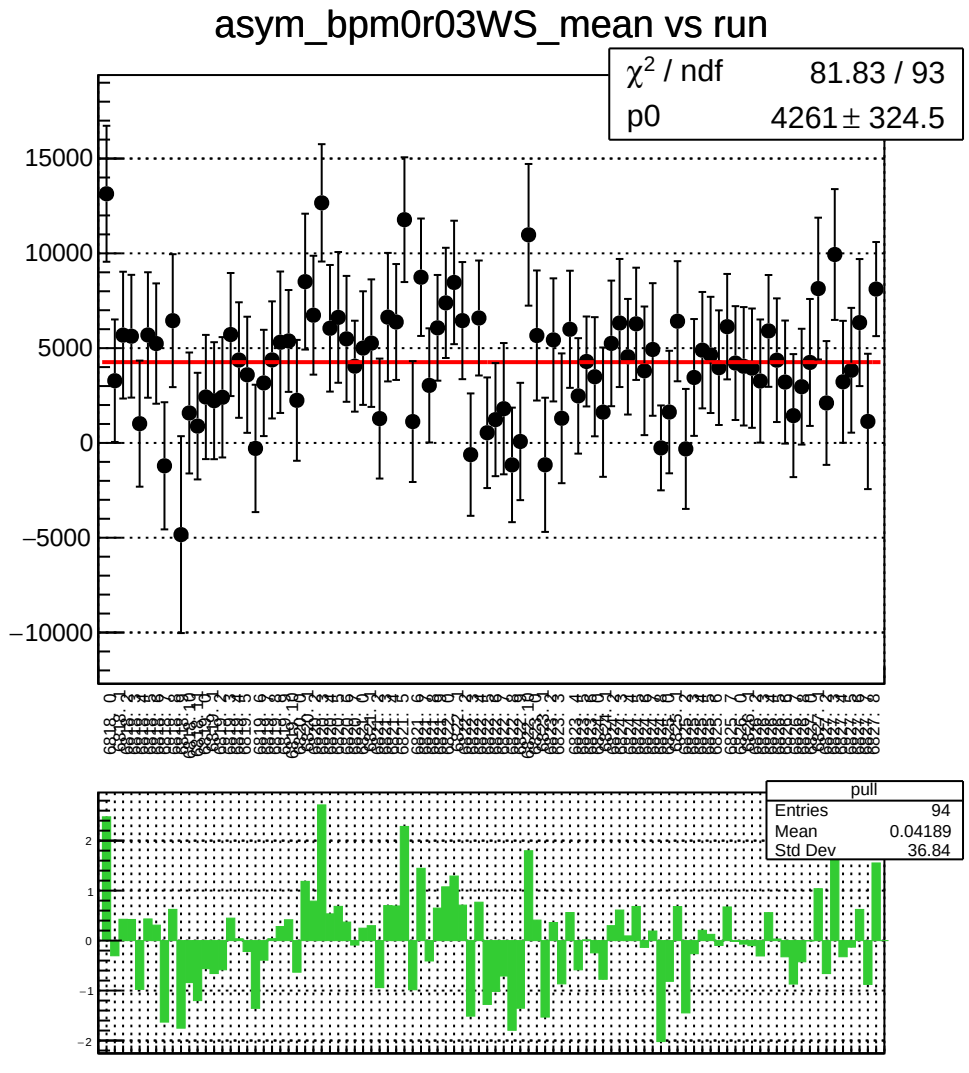

asym_bpm0l09WS_mean vs run
χ² / ndf 74.05 / 93
p0 4519 ± 227.1
15000
10000
5000
0
−5000
pull
Entries 94
Mean 267.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.005994
Std Dev 0.8876
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

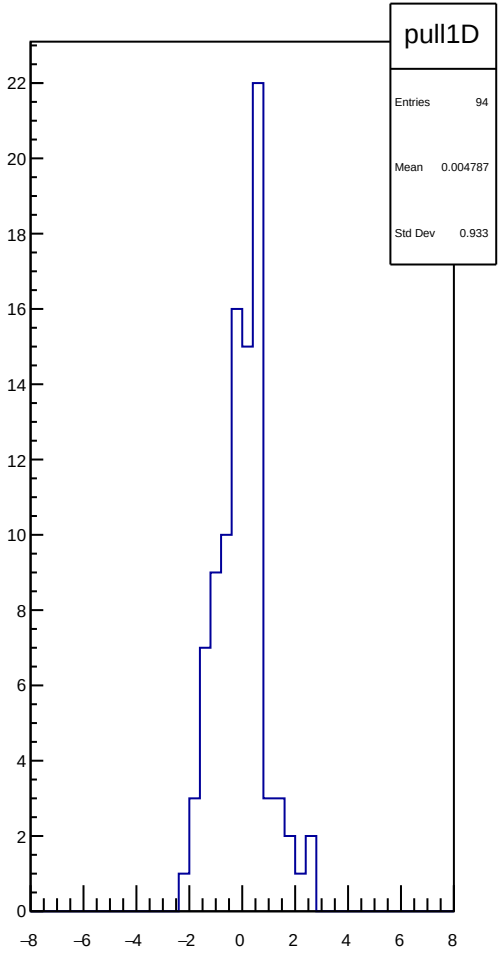

asym_bpm0l09WS_rms vs run
χ² / ndf 1.445e+04 / 93
p0 214.3 ± 0.1606
450
400
350
300
250
200

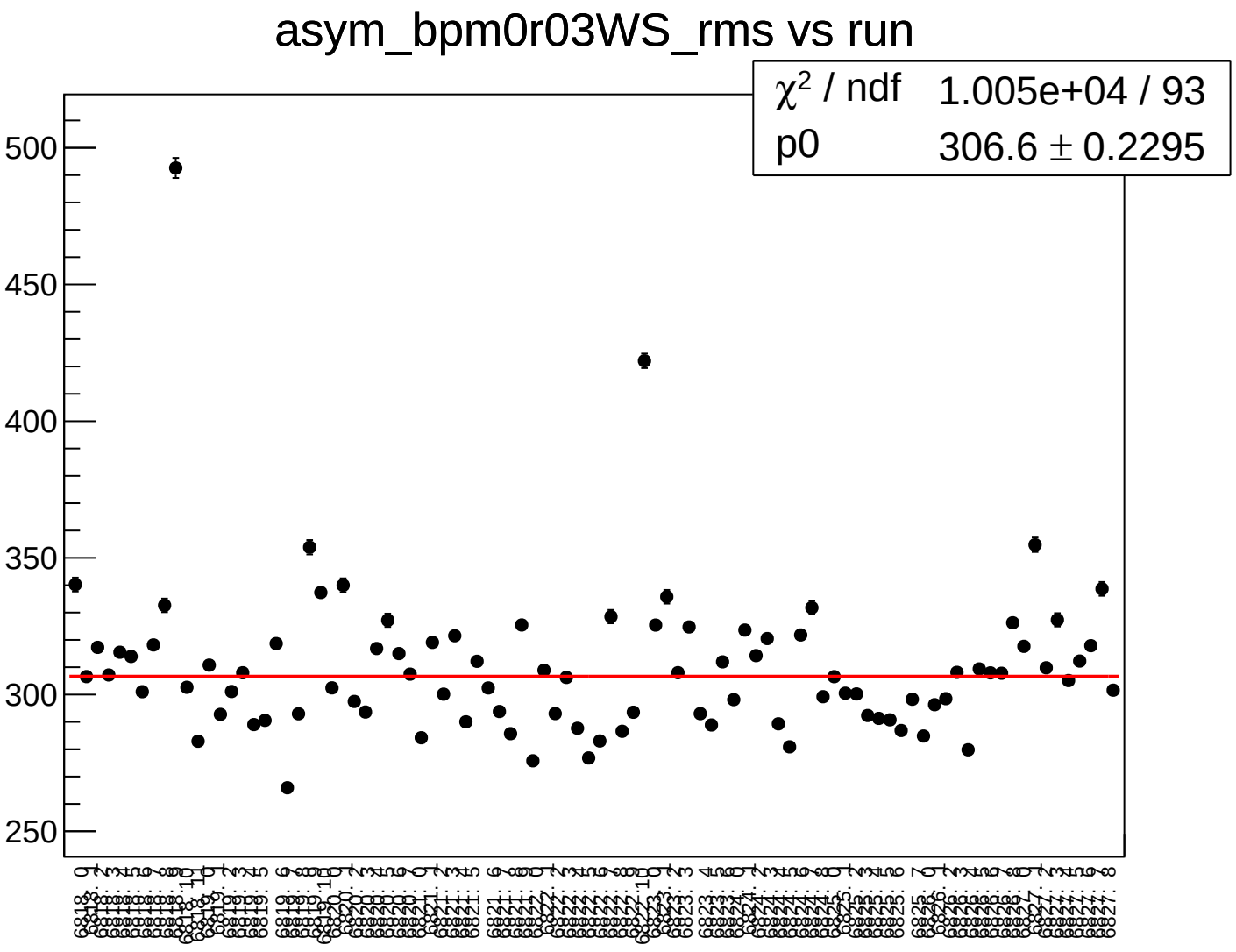

asym_bpm0l10WS_mean vs run
χ² / ndf 69.73 / 93
p0 4522 ± 230
15000
10000
5000
0
−5000
pull
Entries 94
Mean 465.3
Std Dev 0
3
2
1
0
−1
−2

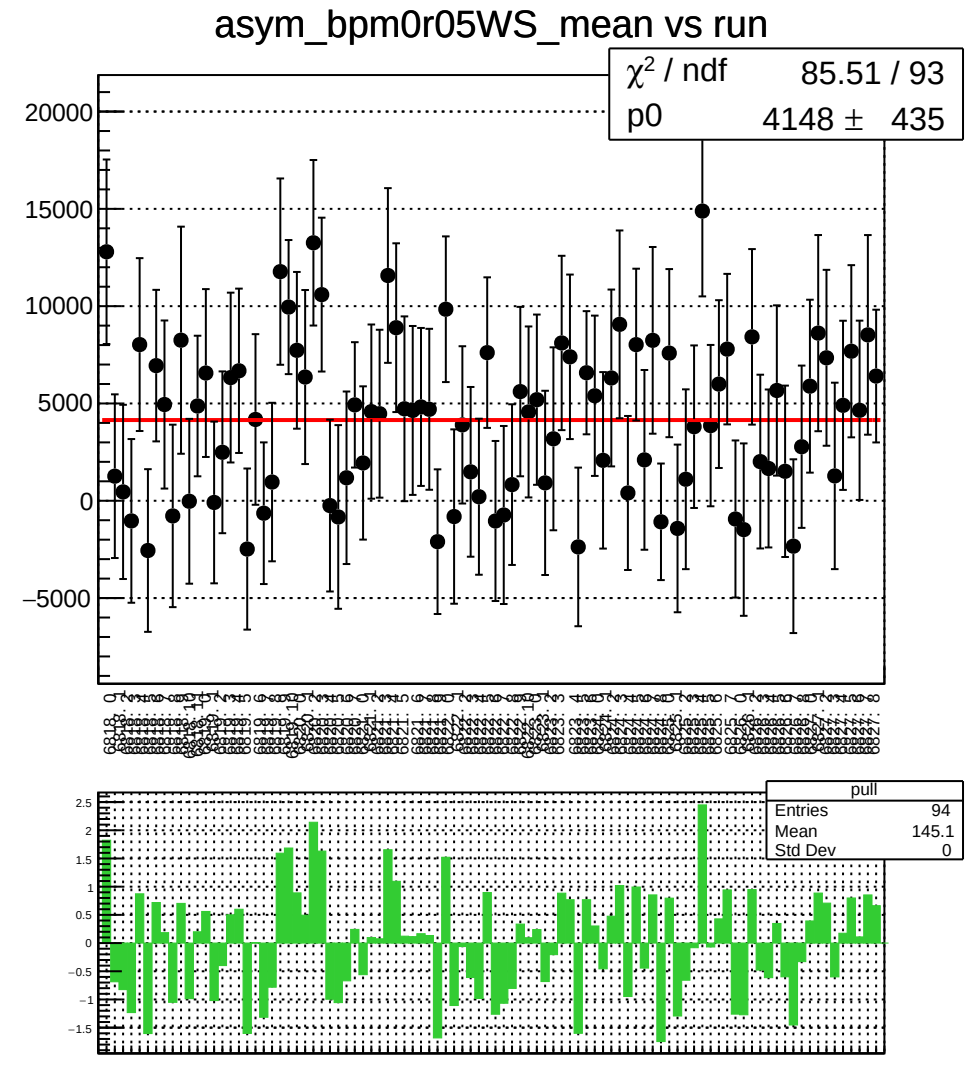

pull1D
Entries 94
Mean −0.00581
Std Dev 0.8613
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

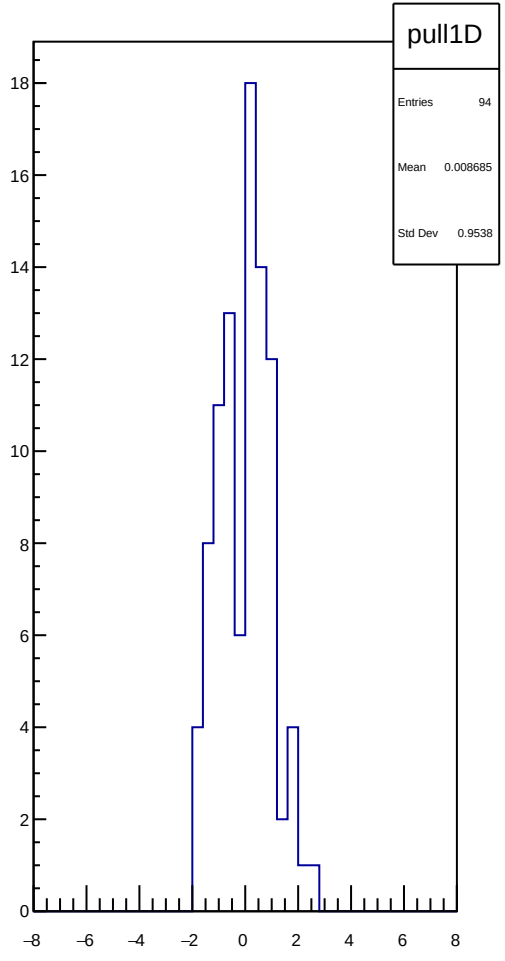

asym_bpm0l10WS_rms vs run
χ² / ndf 1.369e+04 / 93
p0 217.1 ± 0.1627
450
400
350
300
250
200

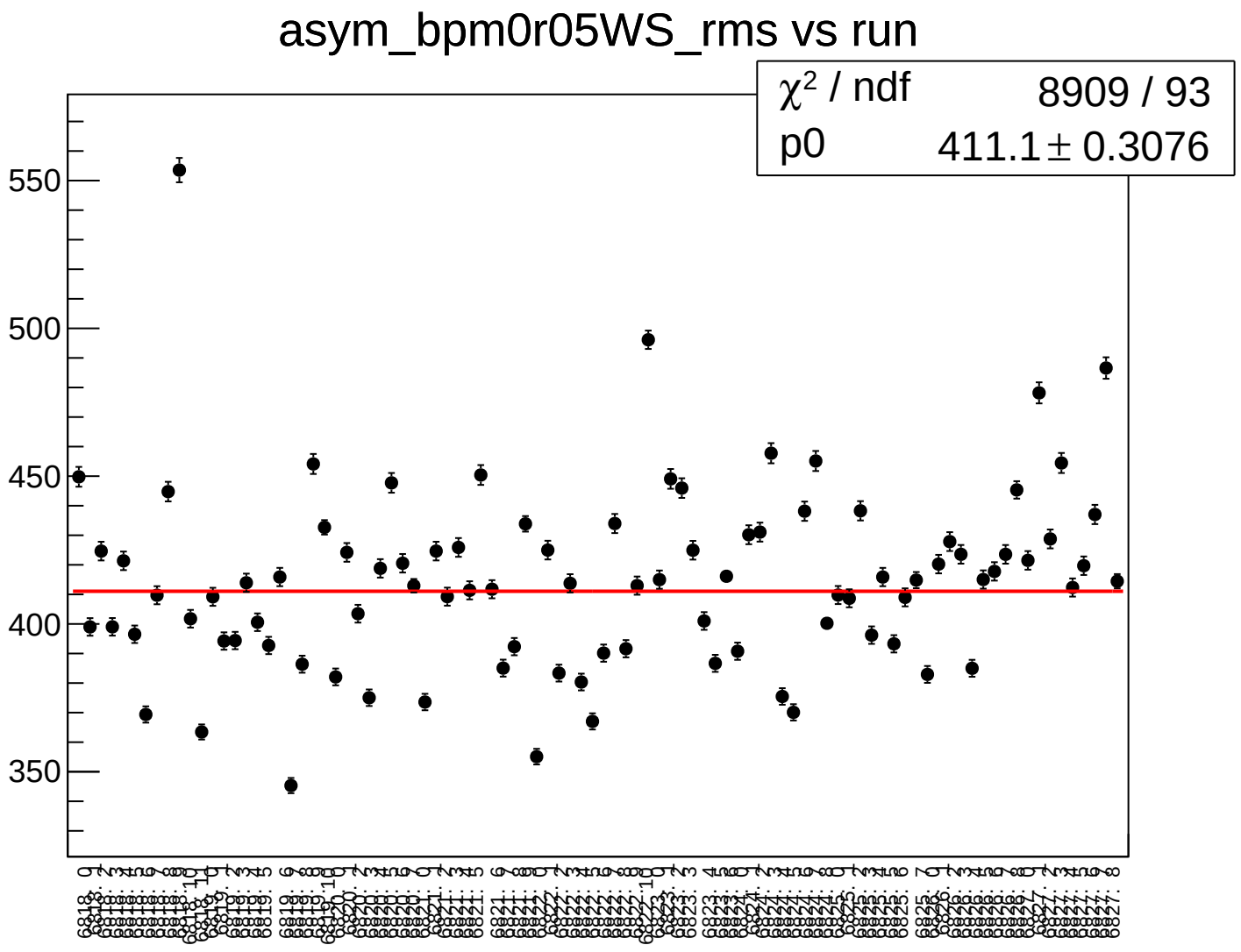

asym_bpm0r03WS_mean vs run
χ² / ndf 81.83 / 93
p0 4261 ± 324.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 0.04189
Std Dev 36.84
2
1
0
−1
−2

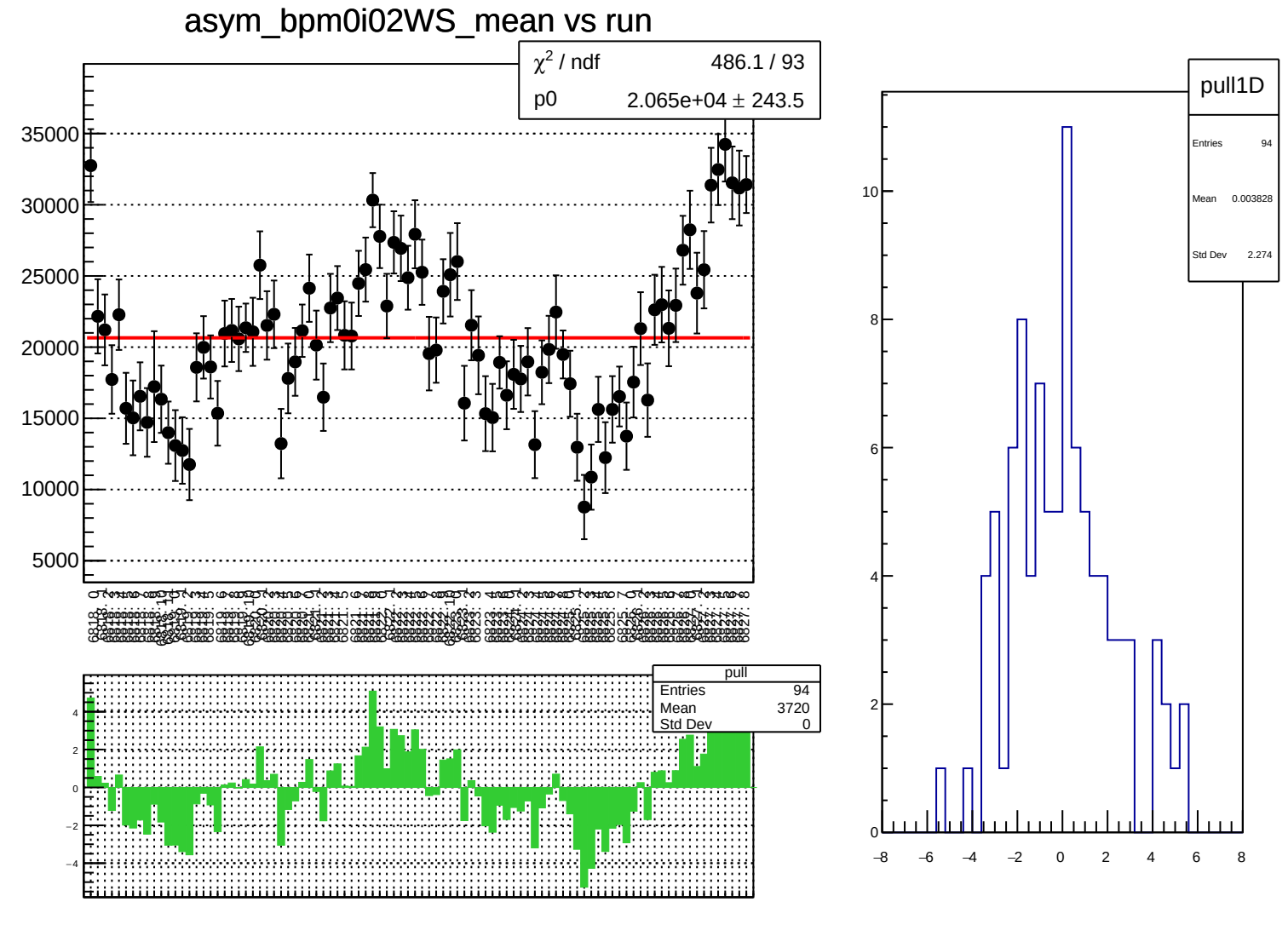

pull1D
Entries 94
Mean 0.004787
Std Dev 0.933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

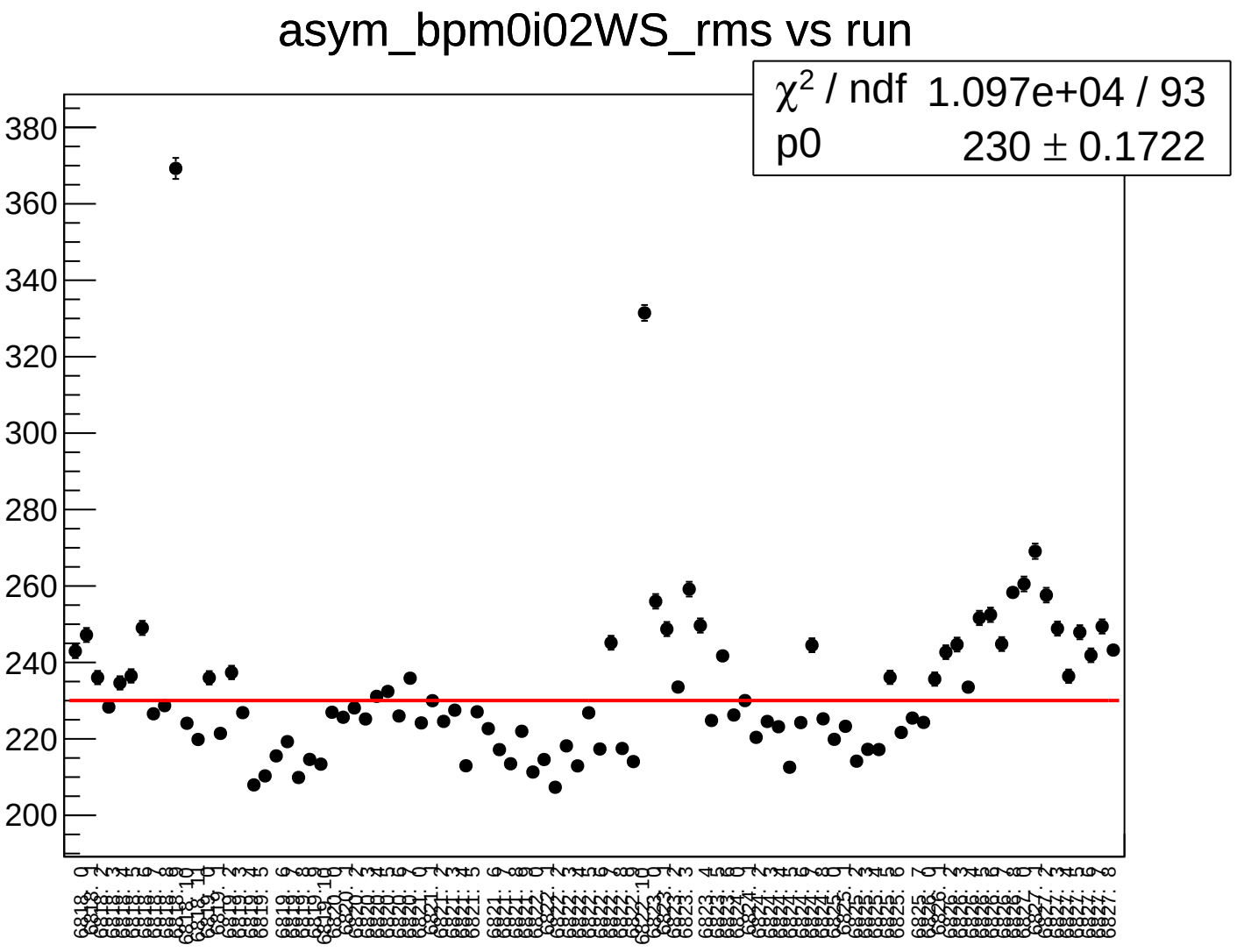

asym_bpm0r03WS_rms vs run
χ² / ndf 1.005e+04 / 93
p0 306.6 ± 0.2295
500
450
400
350
300
250

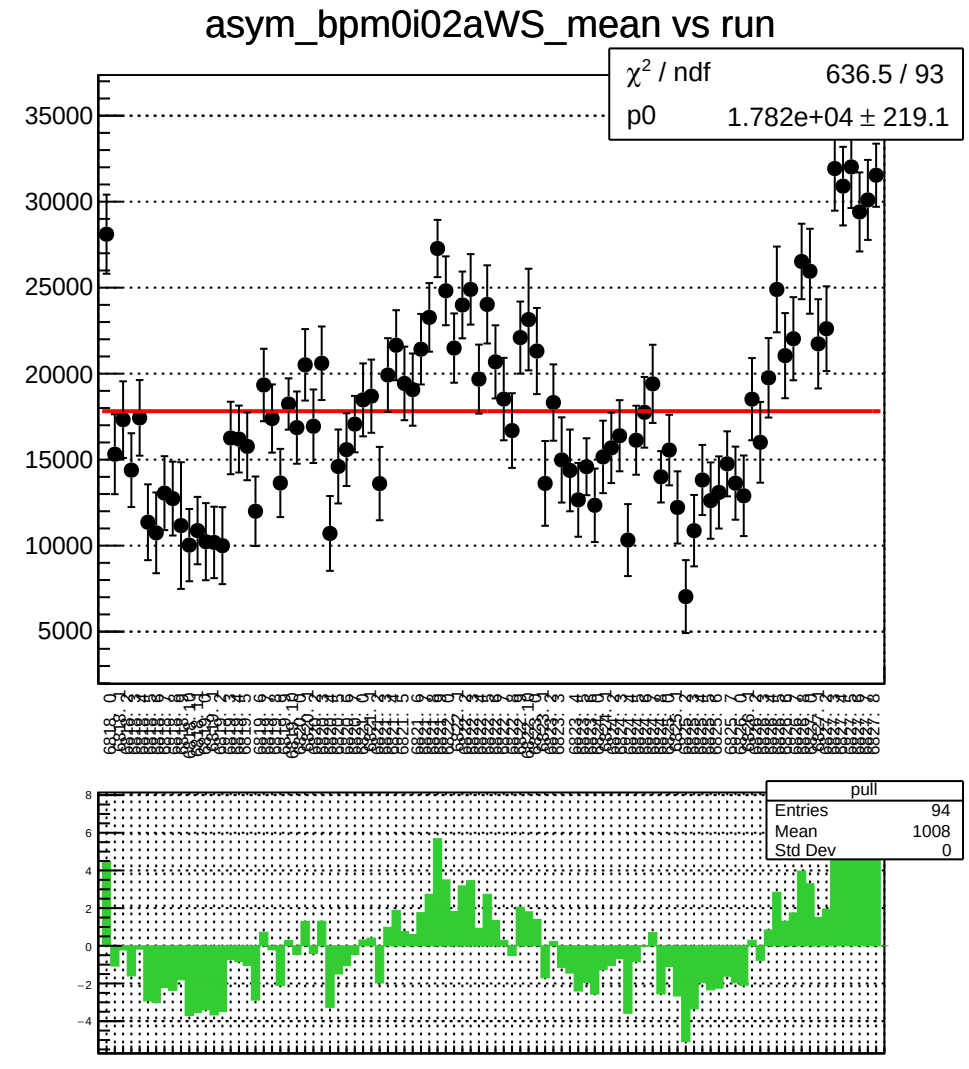

asym_bpm0r05WS_mean vs run
χ² / ndf 85.51 / 93
p0 4148 ± 435
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 145.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

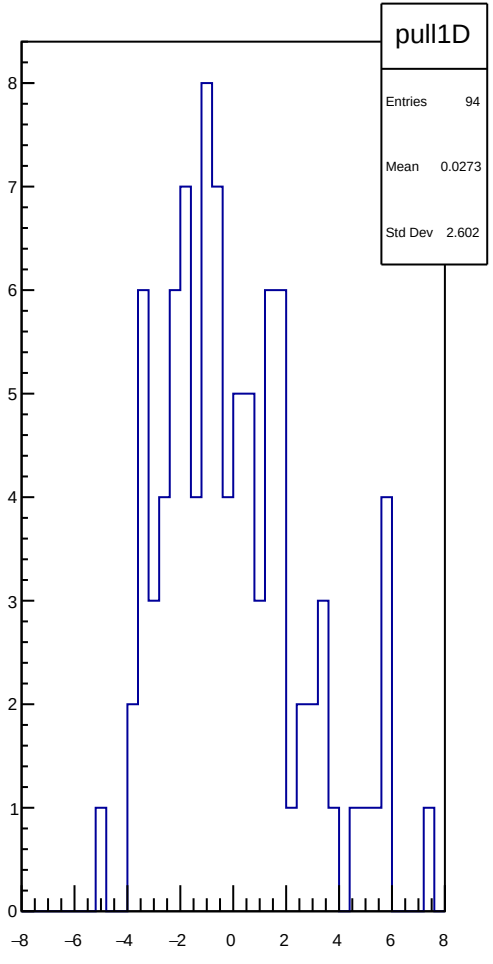

pull1D
Entries 94
Mean 0.008685
Std Dev 0.9538
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

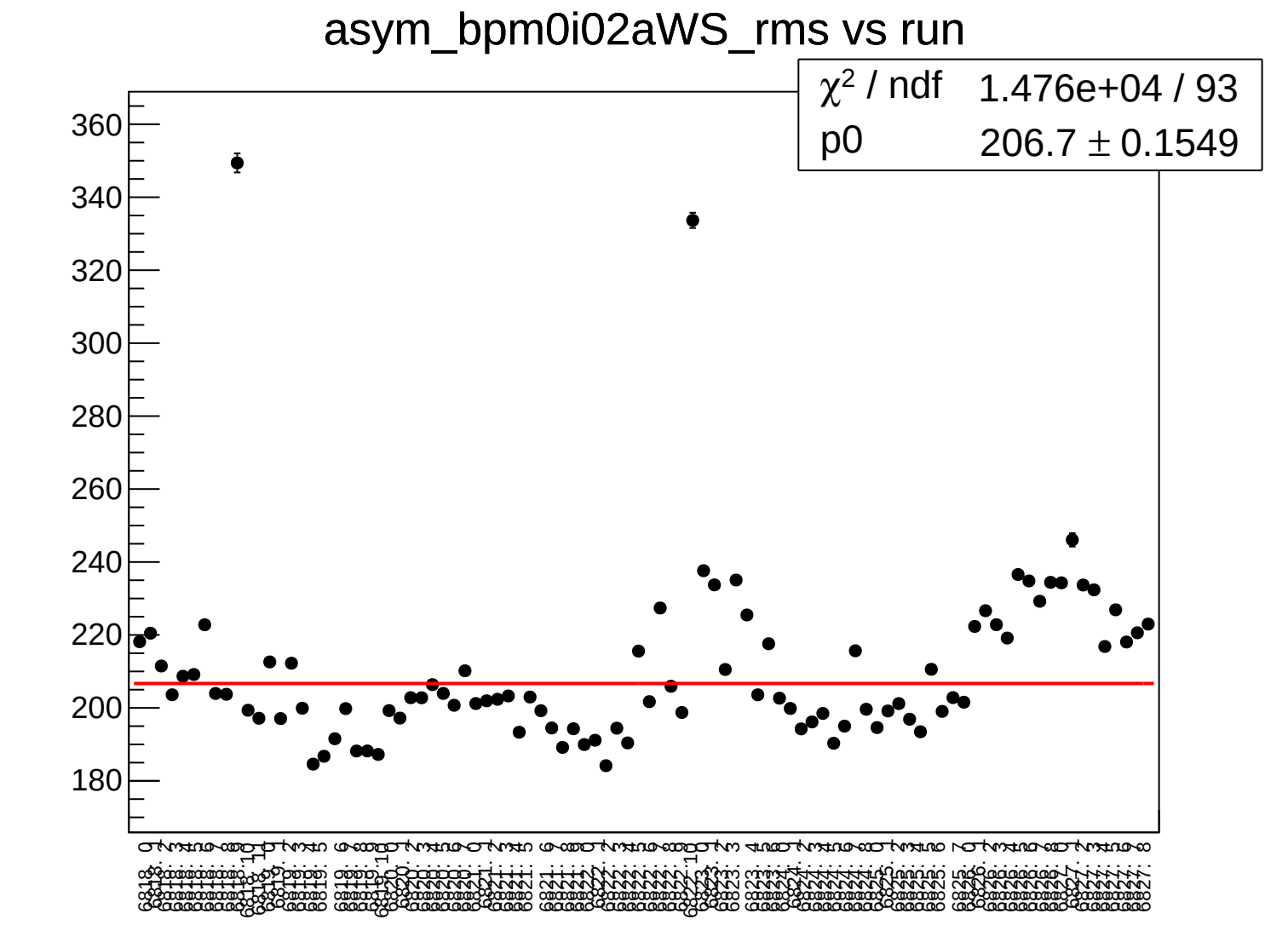

asym_bpm0r05WS_rms vs run
χ² / ndf 8909 / 93
p0 411.1 ± 0.3076
550
500
450
400
350

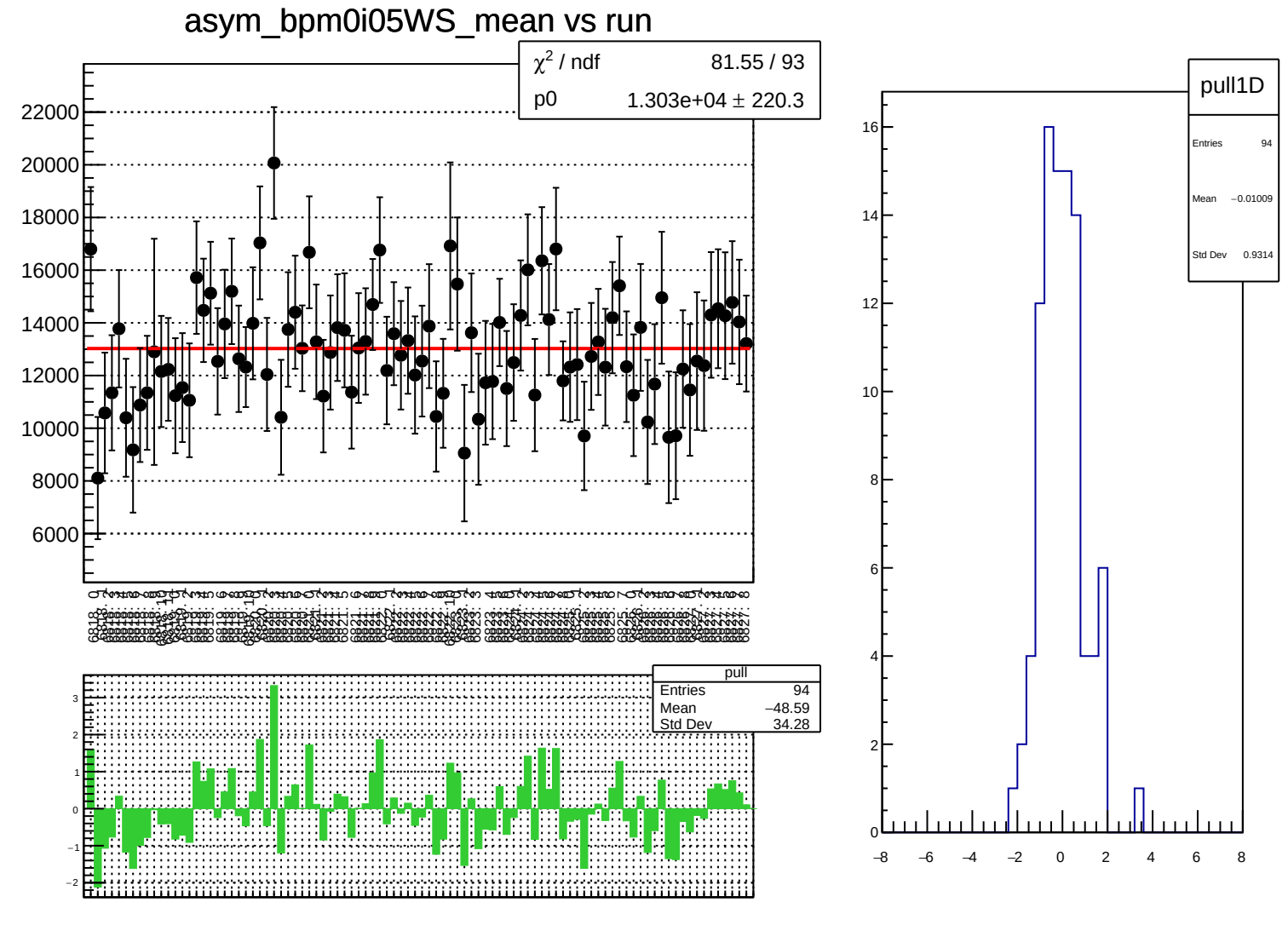

asym_bpm0i02WS_mean vs run
χ² / ndf 486.1 / 93
p0 2.065e+04 ± 243.5
35000
30000
25000
20000
15000
10000
5000
pull
Entries 94
Mean 3720
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 94
Mean 0.003828
Std Dev 2.274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

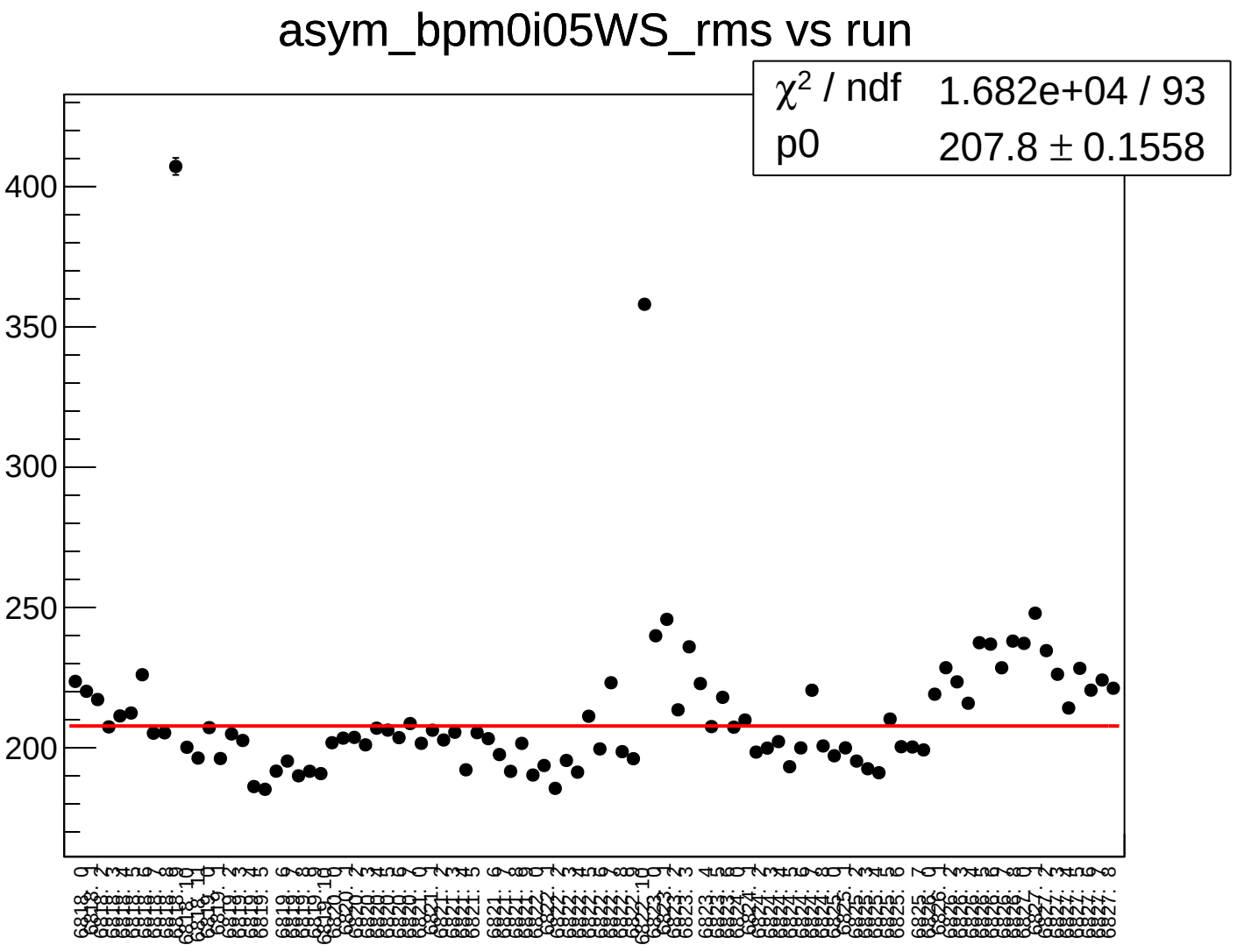

asym_bpm0i02WS_rms vs run
χ² / ndf 1.097e+04 / 93
p0 230 ± 0.1722
380
360
340
320
300
280
260
240
220
200

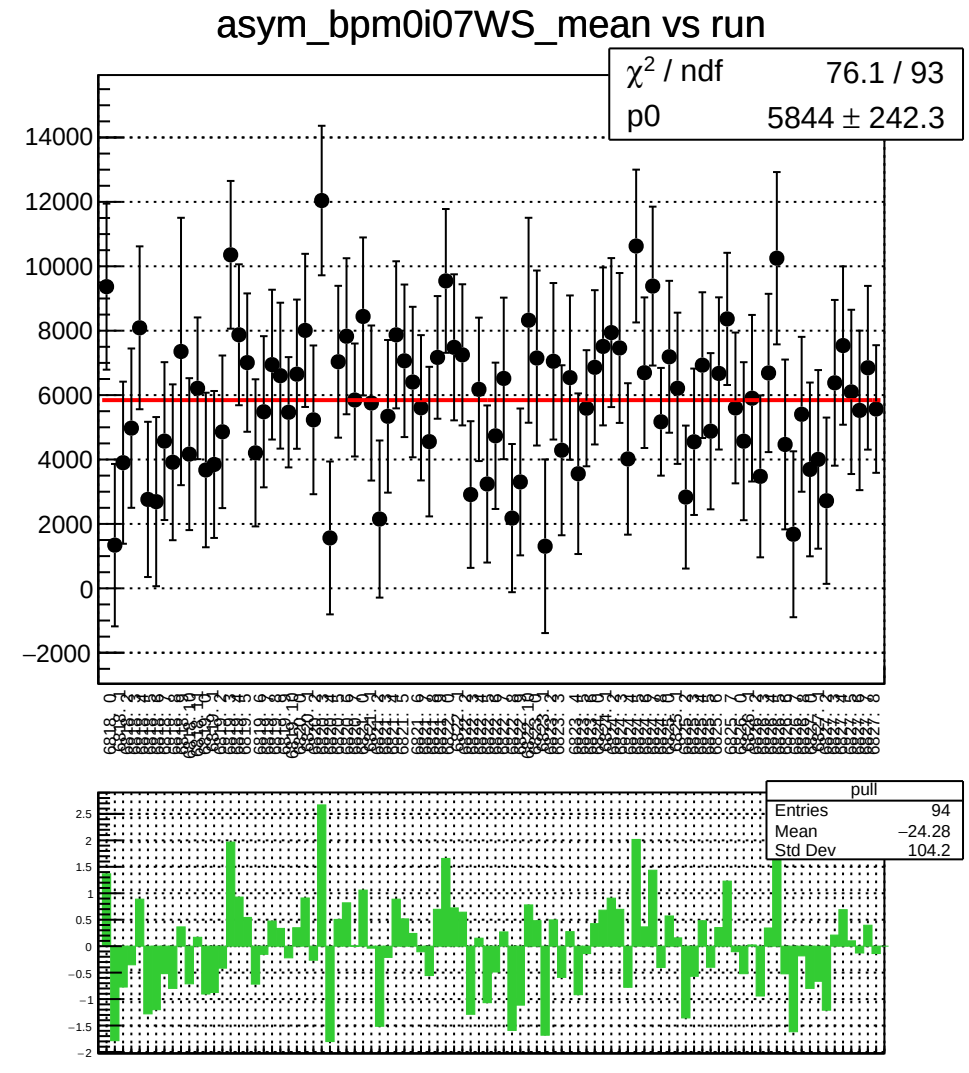

asym_bpm0i02aWS_mean vs run
χ² / ndf 636.5 / 93
p0 1.782e+04 ± 219.1
pull
Entries 94
Mean 1008
Std Dev 0

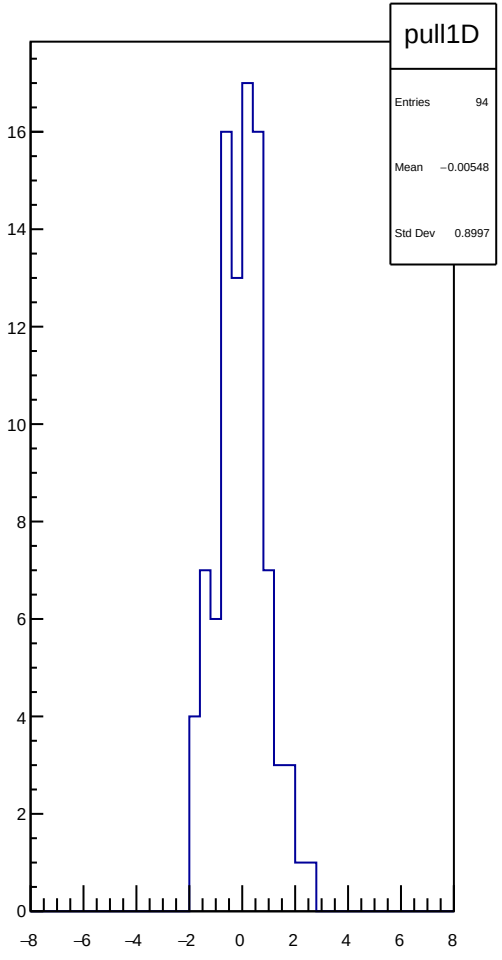

pull1D
Entries 94
Mean 0.0273
Std Dev 2.602

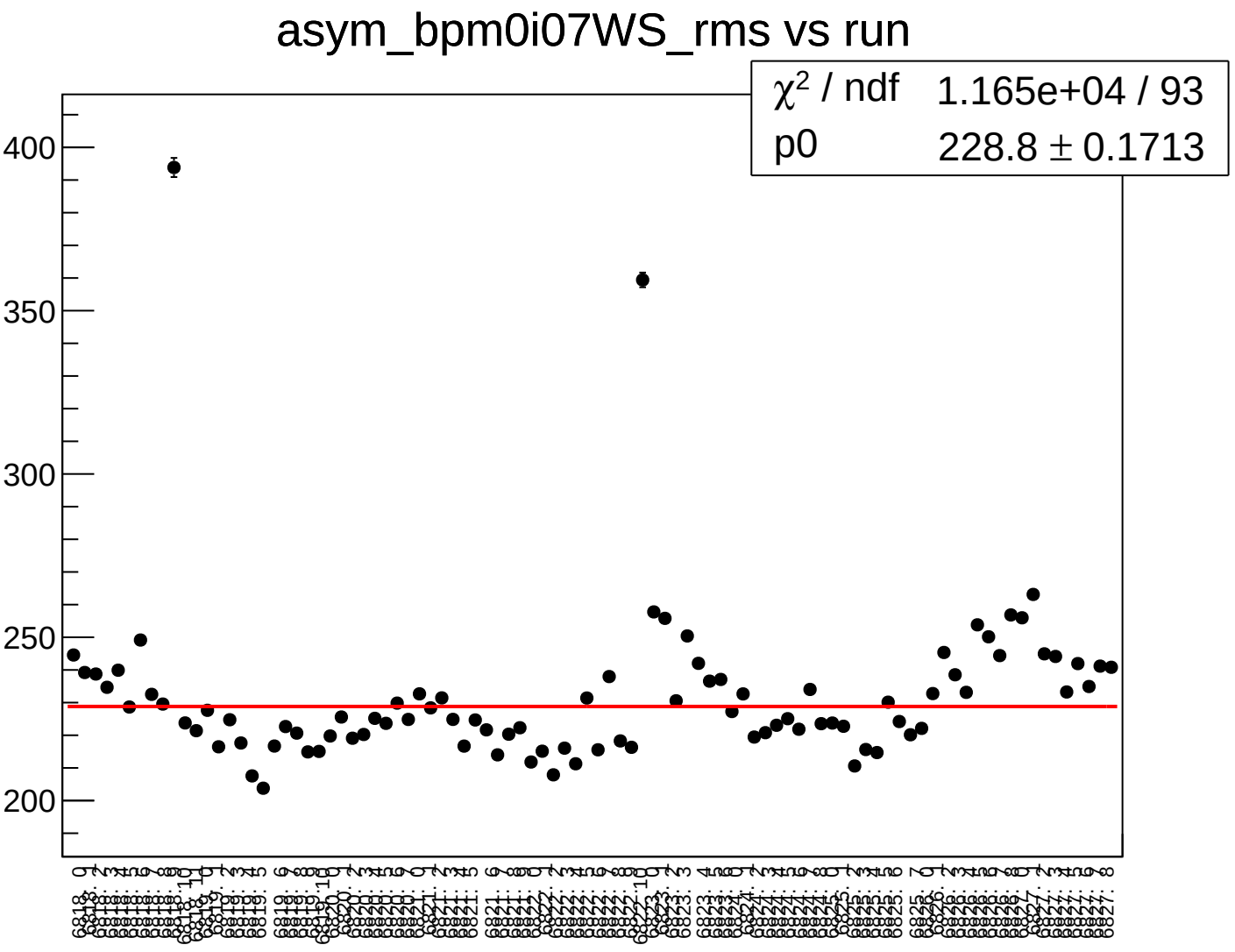

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.476e+04 / 93
p0 206.7 ± 0.1549
360
340
320
300
280
260
240
220
200
180

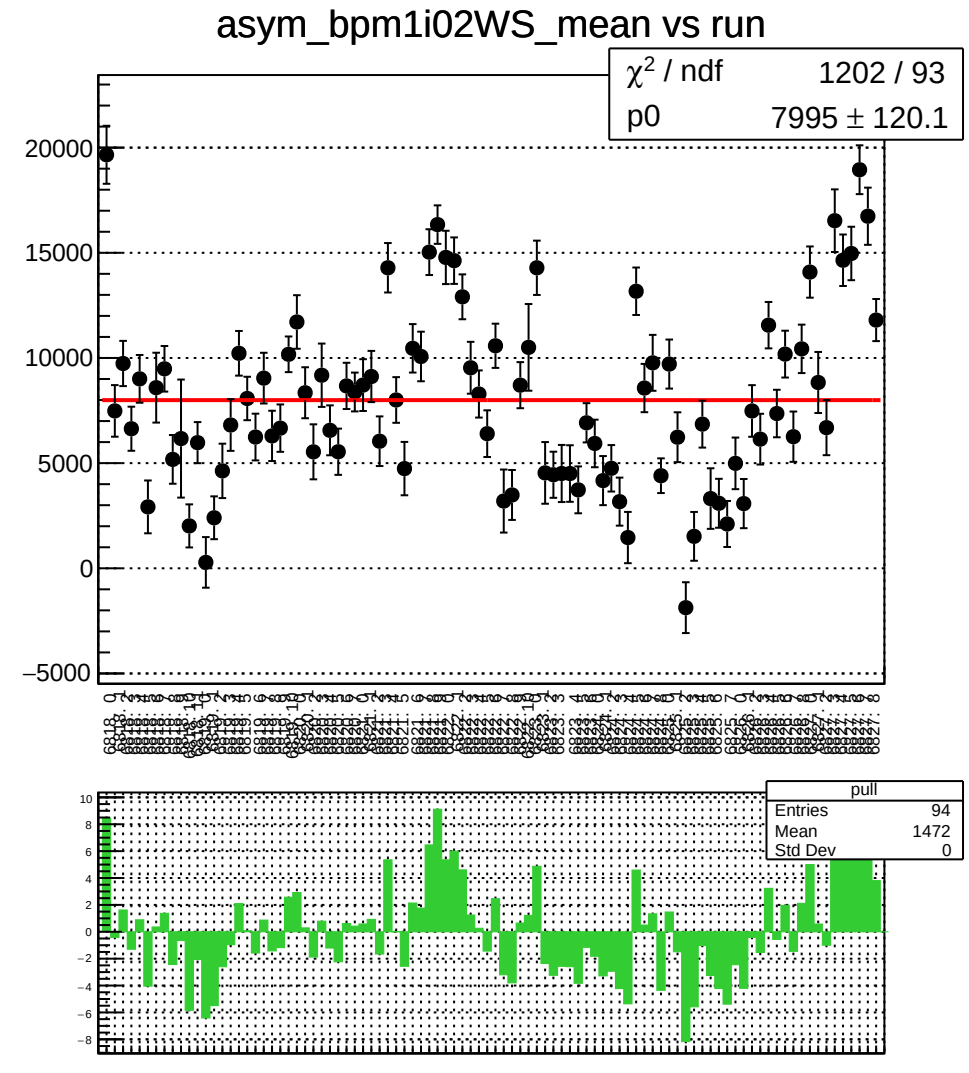

asym_bpm0i05WS_mean vs run
χ² / ndf 81.55 / 93
p0 1.303e+04 ± 220.3
22000
20000
18000
16000
14000
12000
10000
8000
6000
pull
Entries 94
Mean −48.59
Std Dev 34.28
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01009
Std Dev 0.9314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

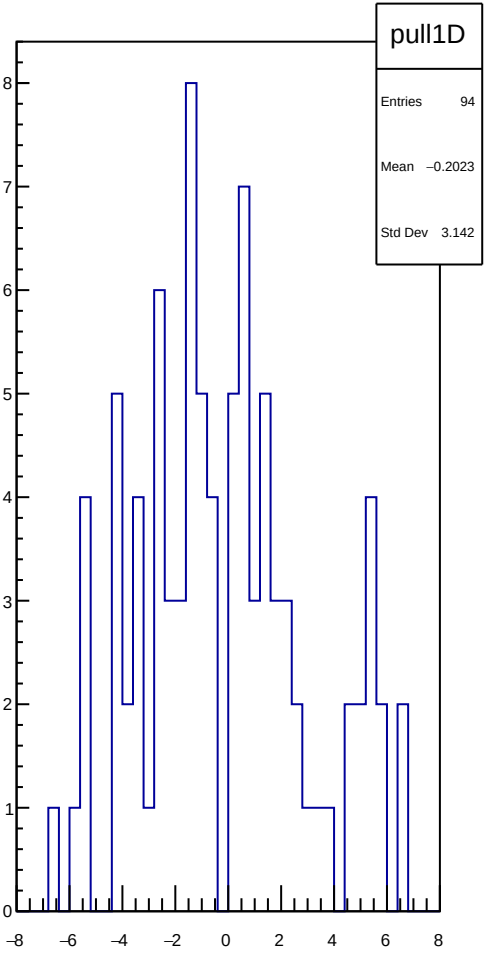

asym_bpm0i05WS_rms vs run
χ² / ndf 1.682e+04 / 93
p0 207.8 ± 0.1558
400
350
300
250
200

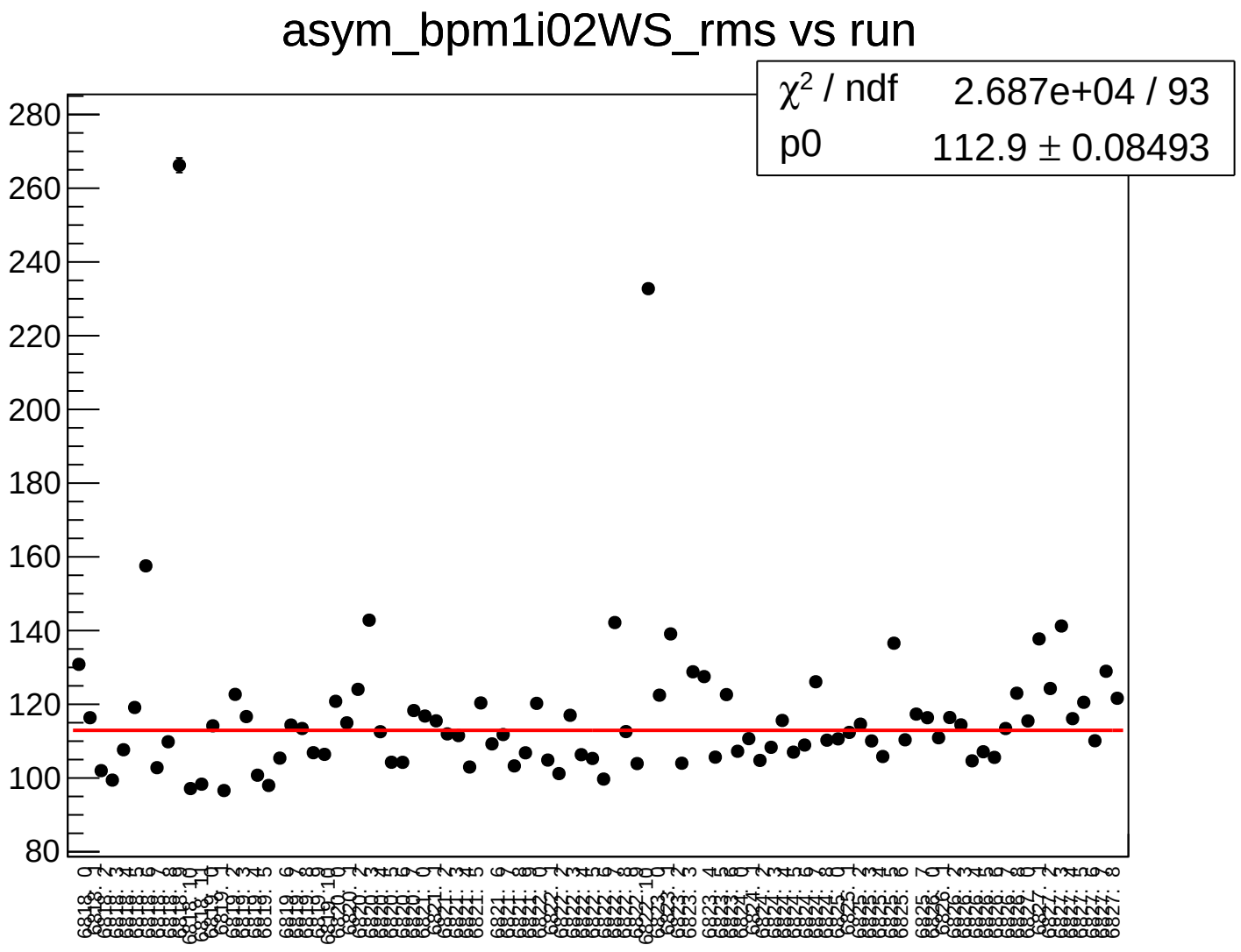

asym_bpm0i07WS_mean vs run
χ² / ndf 76.1 / 93
p0 5844 ± 242.3
pull
Entries 94
Mean −24.28
Std Dev 104.2

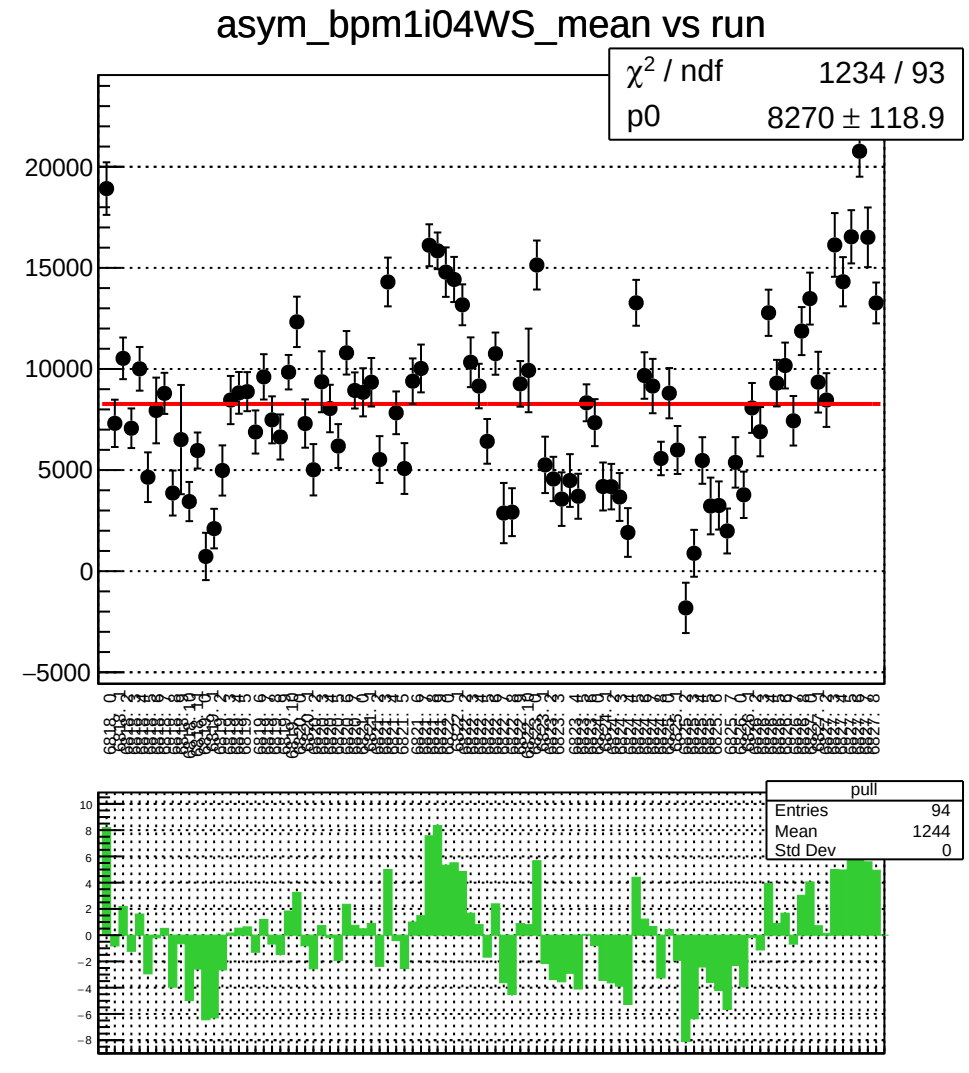

pull1D
Entries 94
Mean −0.00548
Std Dev 0.8997

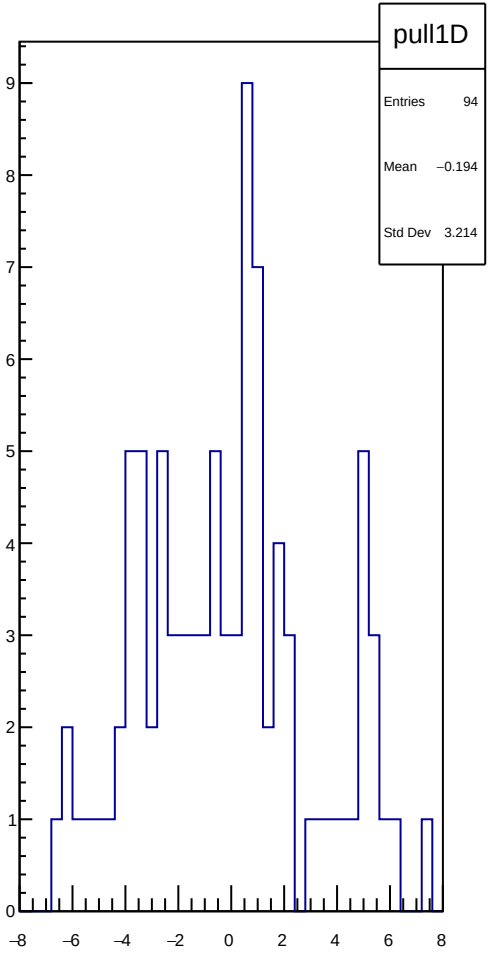

asym_bpm0i07WS_rms vs run
χ² / ndf 1.165e+04 / 93
p0 228.8 ± 0.1713
400
350
300
250
200

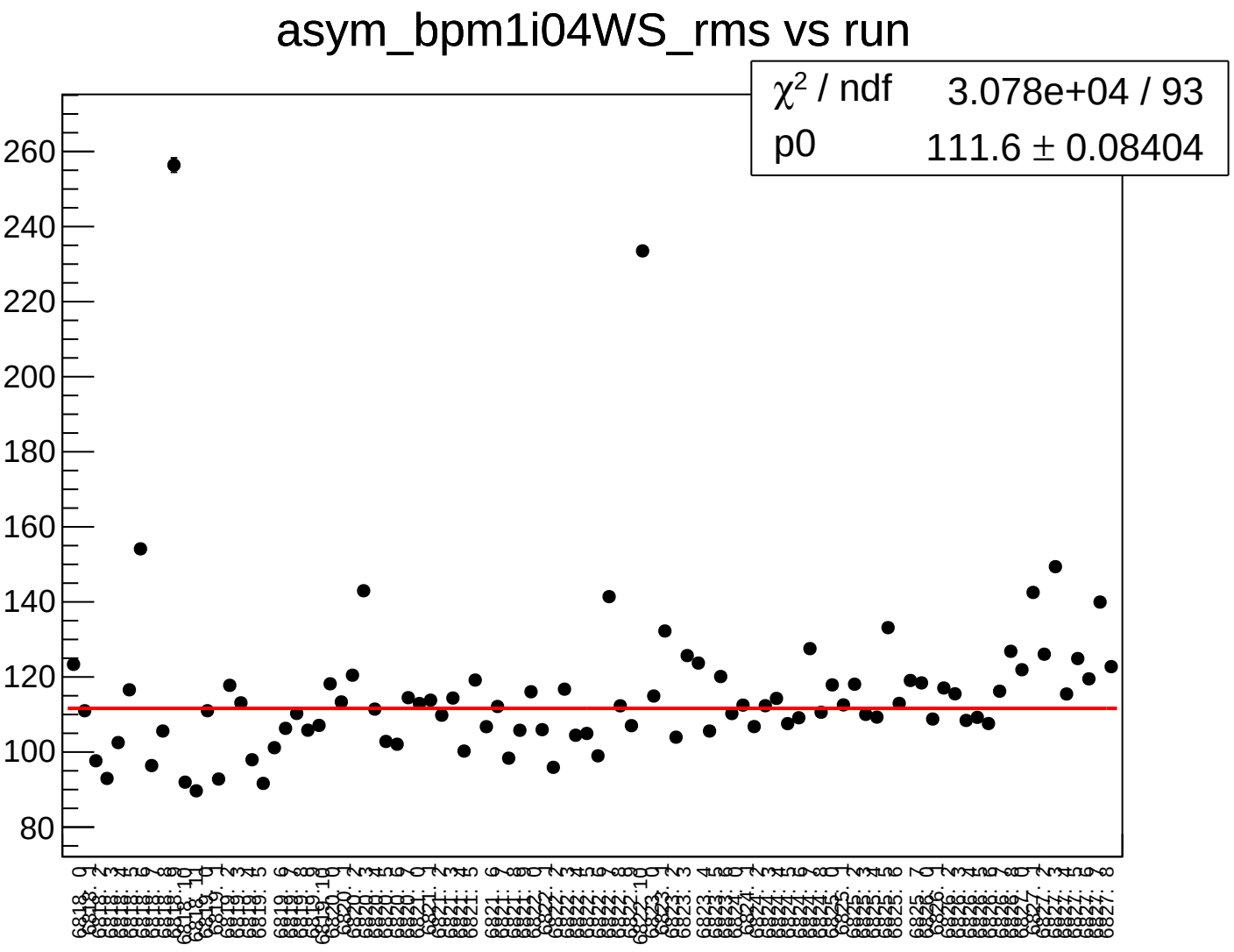

asym_bpm1i02WS_mean vs run
χ² / ndf 1202 / 93
p0 7995 ± 120.1
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 1472
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

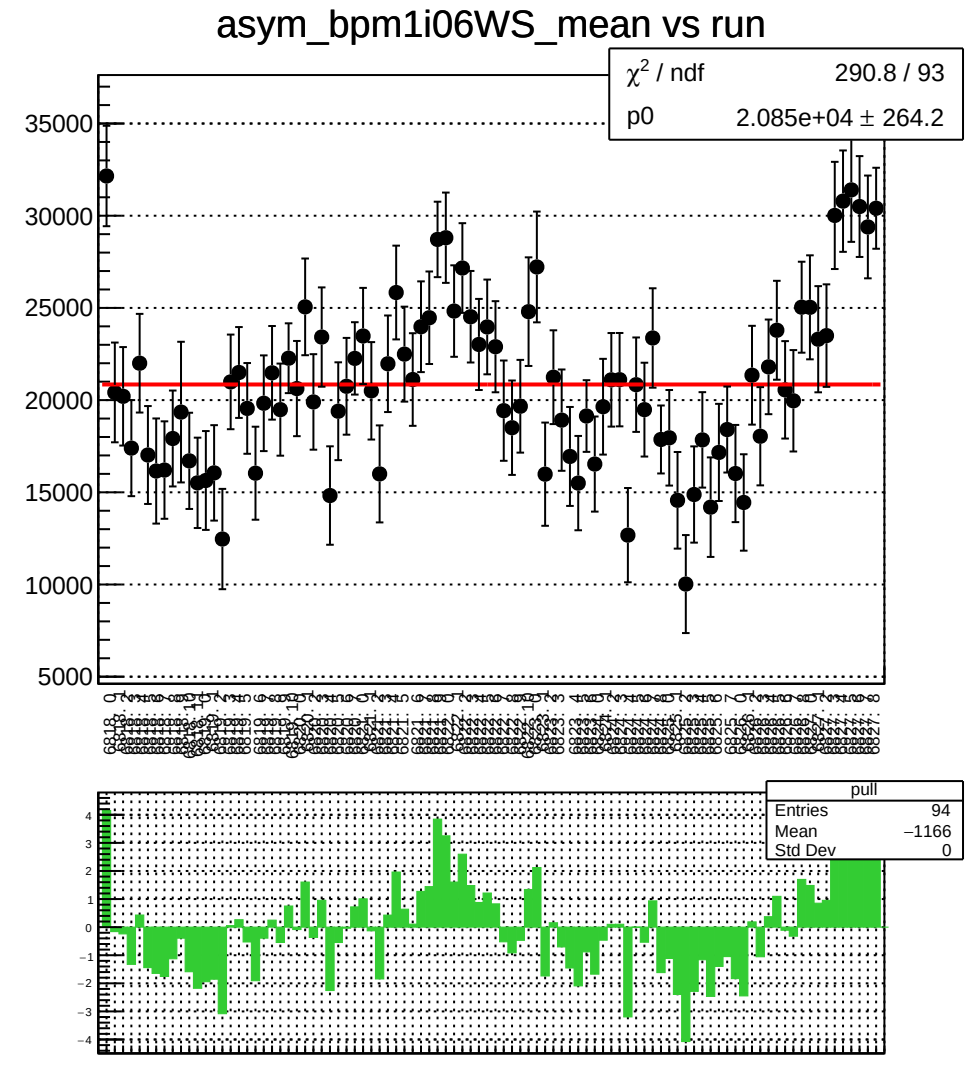

pull1D
Entries 94
Mean −0.2023
Std Dev 3.142
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

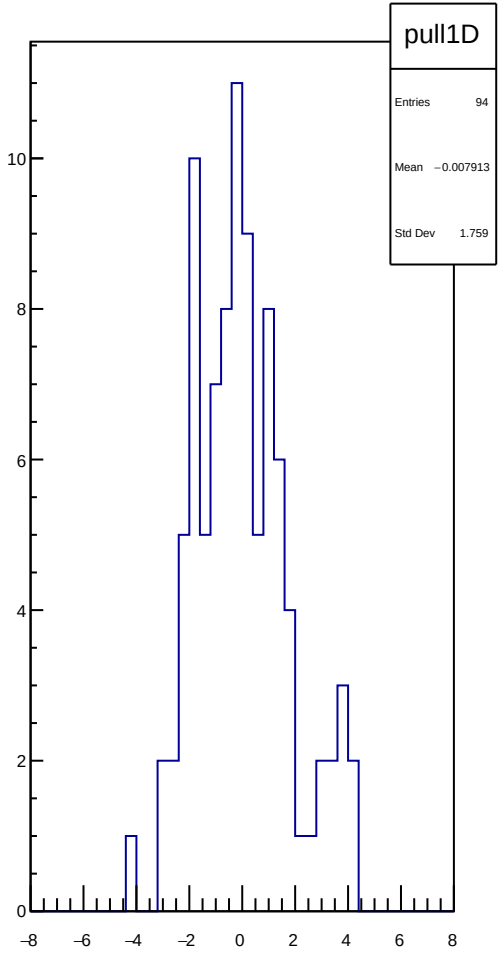

asym_bpm1i02WS_rms vs run
χ^2 / ndf 2.687e+04 / 93
p0 112.9 ± 0.08493
280
260
240
220
200
180
160
140
120
100
80

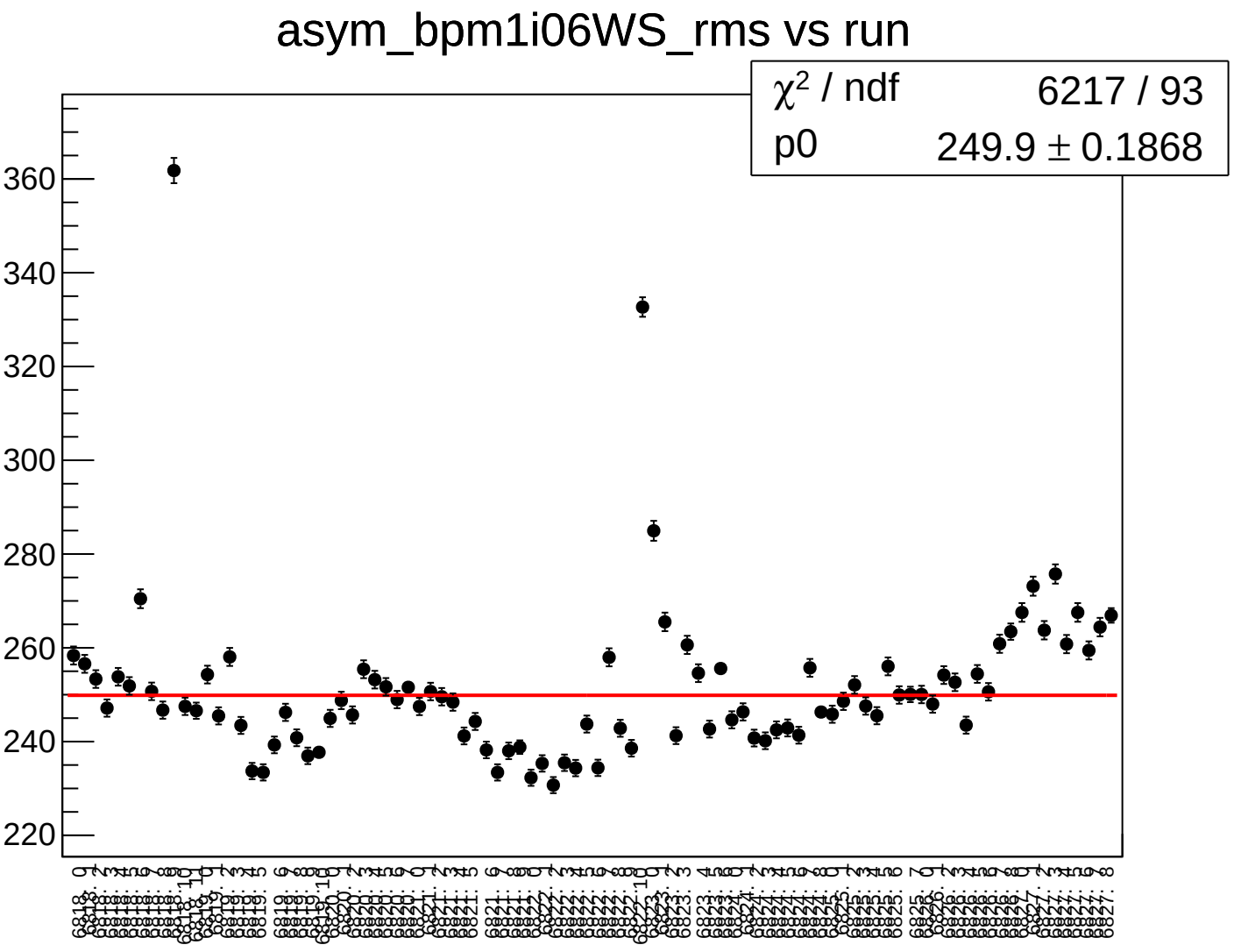

asym_bpm1i04WS_mean vs run
χ² / ndf 1234 / 93
p0 8270 ± 118.9
20000
15000
10000
5000
0
−5000
pull
Entries 94
Mean 1244
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8

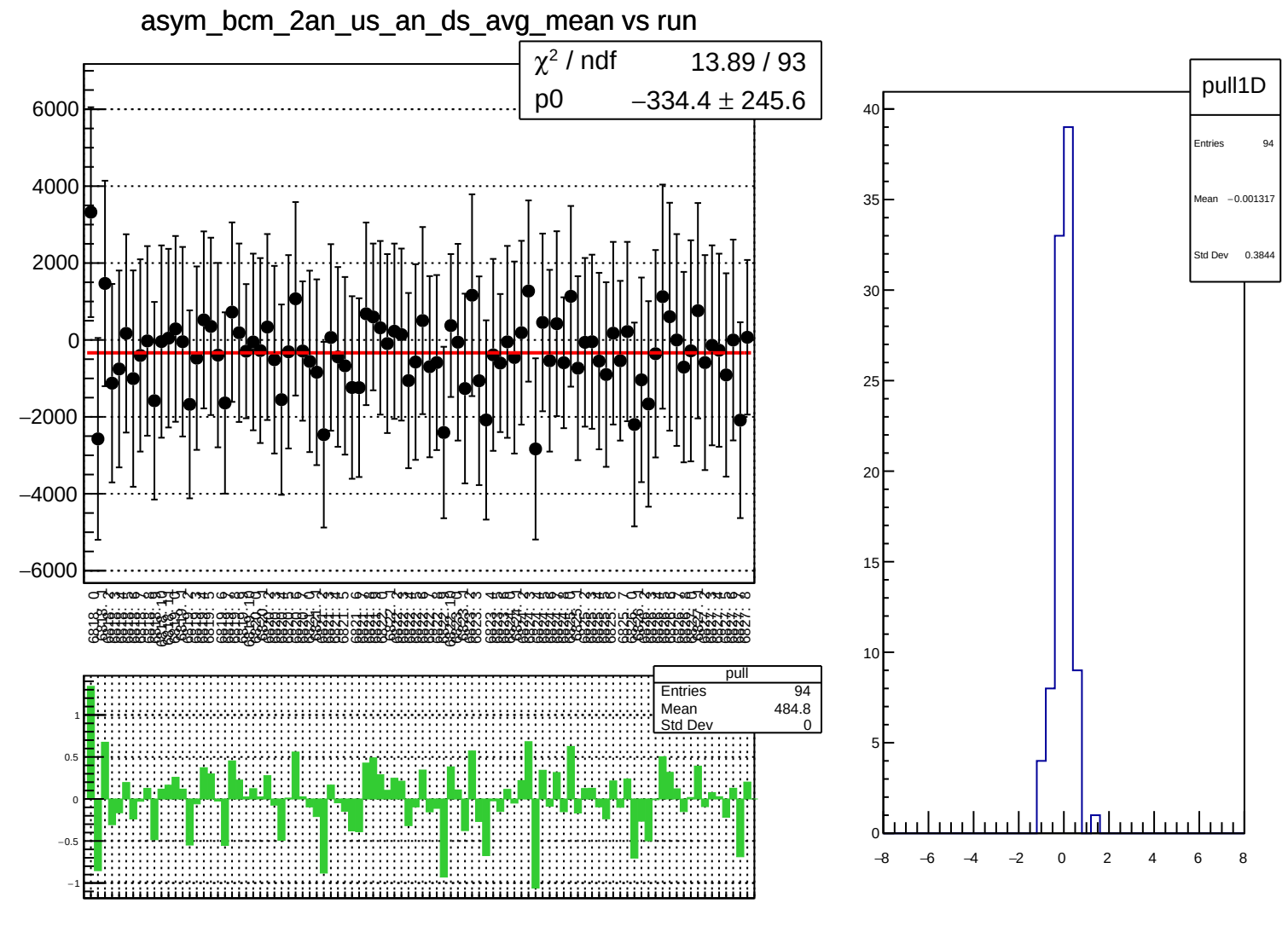

pull1D
Entries 94
Mean −0.194
Std Dev 3.214
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

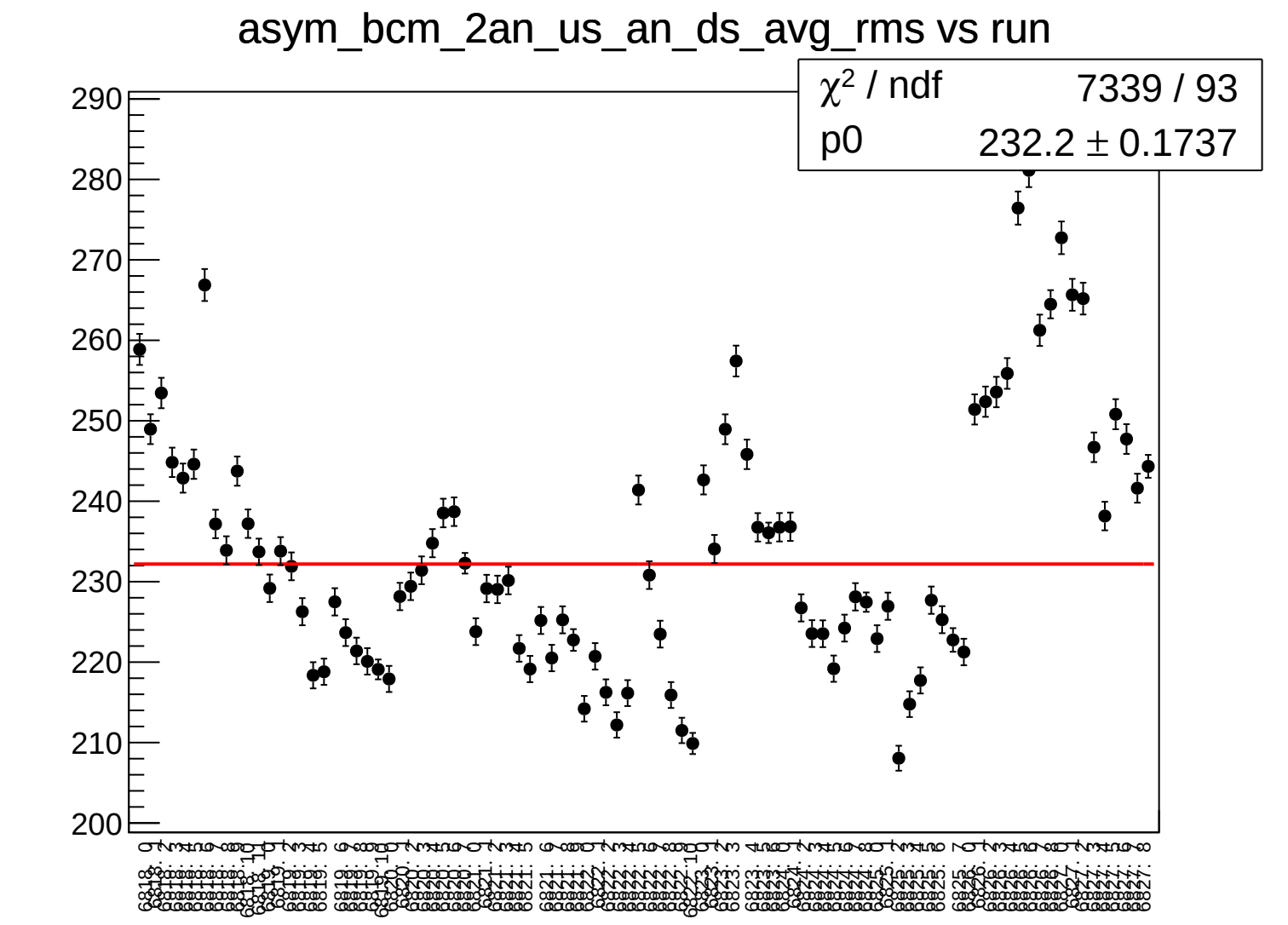

asym_bpm1i04WS_rms vs run
χ² / ndf 3.078e+04 / 93
p0 111.6 ± 0.08404
260
240
220
200
180
160
140
120
100
80

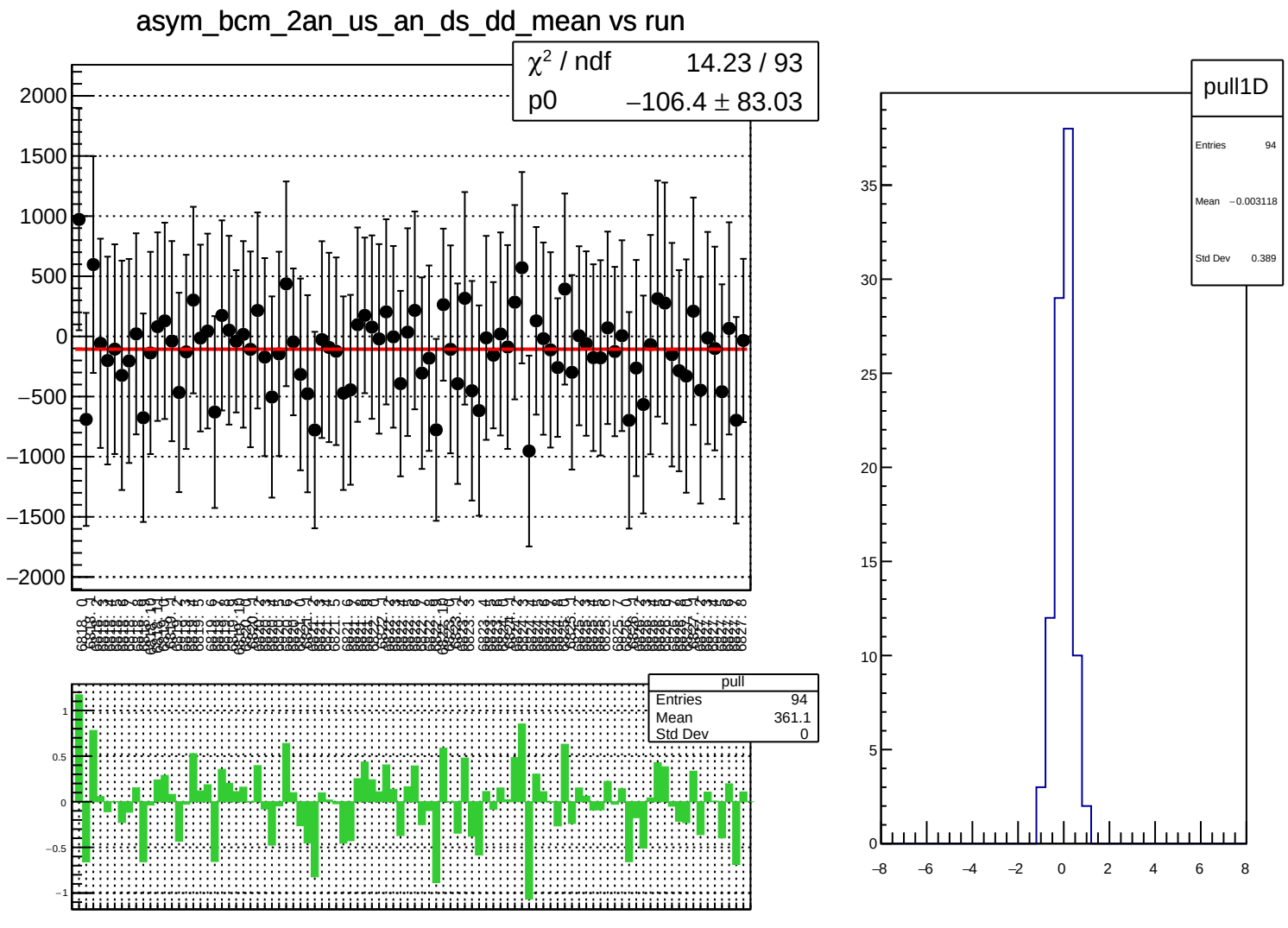

asym_bpm1i06WS_mean vs run
χ² / ndf 290.8 / 93
p0 2.085e+04 ± 264.2
35000
30000
25000
20000
15000
10000
5000
pull
Entries 94
Mean −1166
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

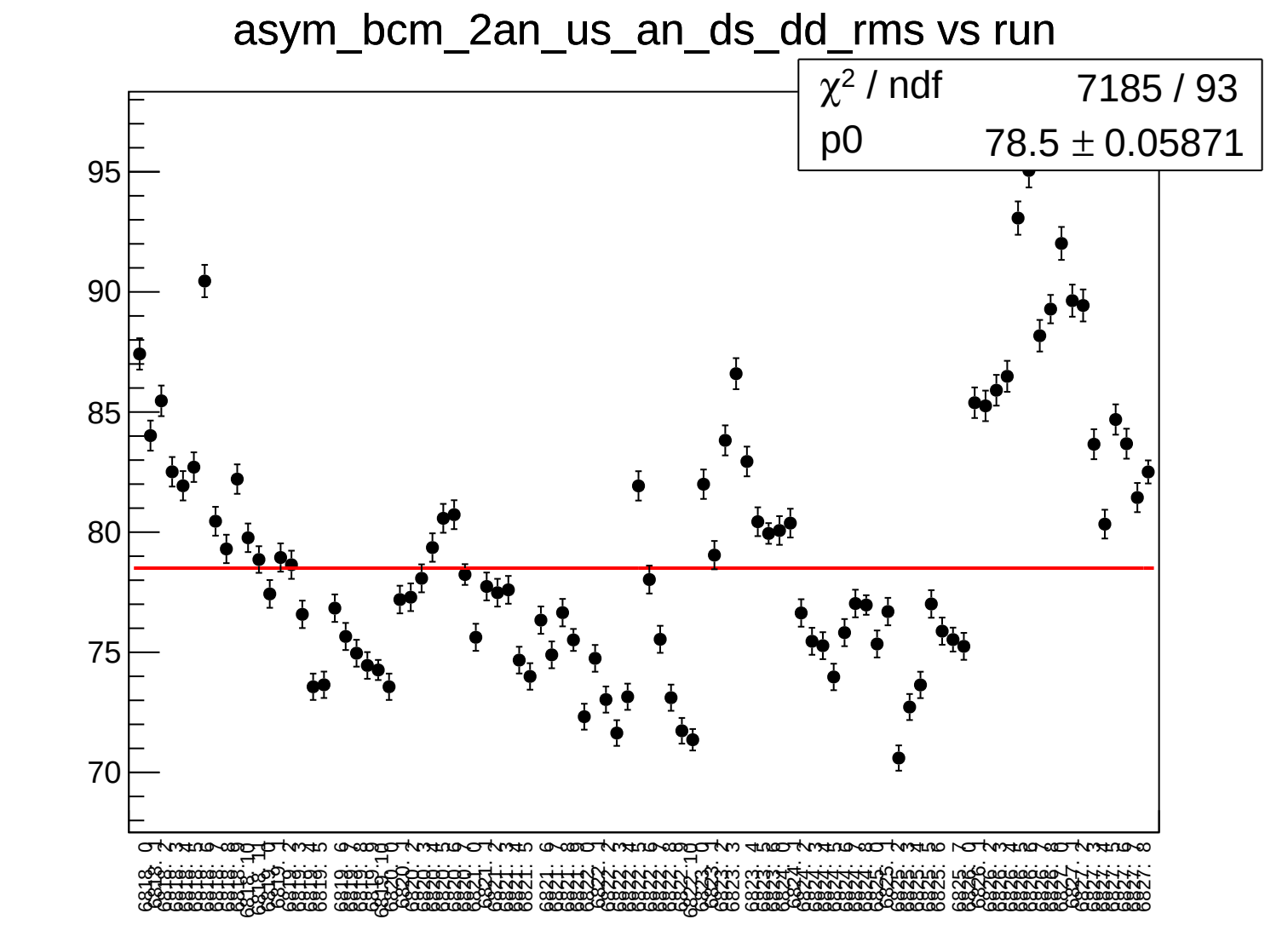

pull1D
Entries 94
Mean −0.007913
Std Dev 1.759
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

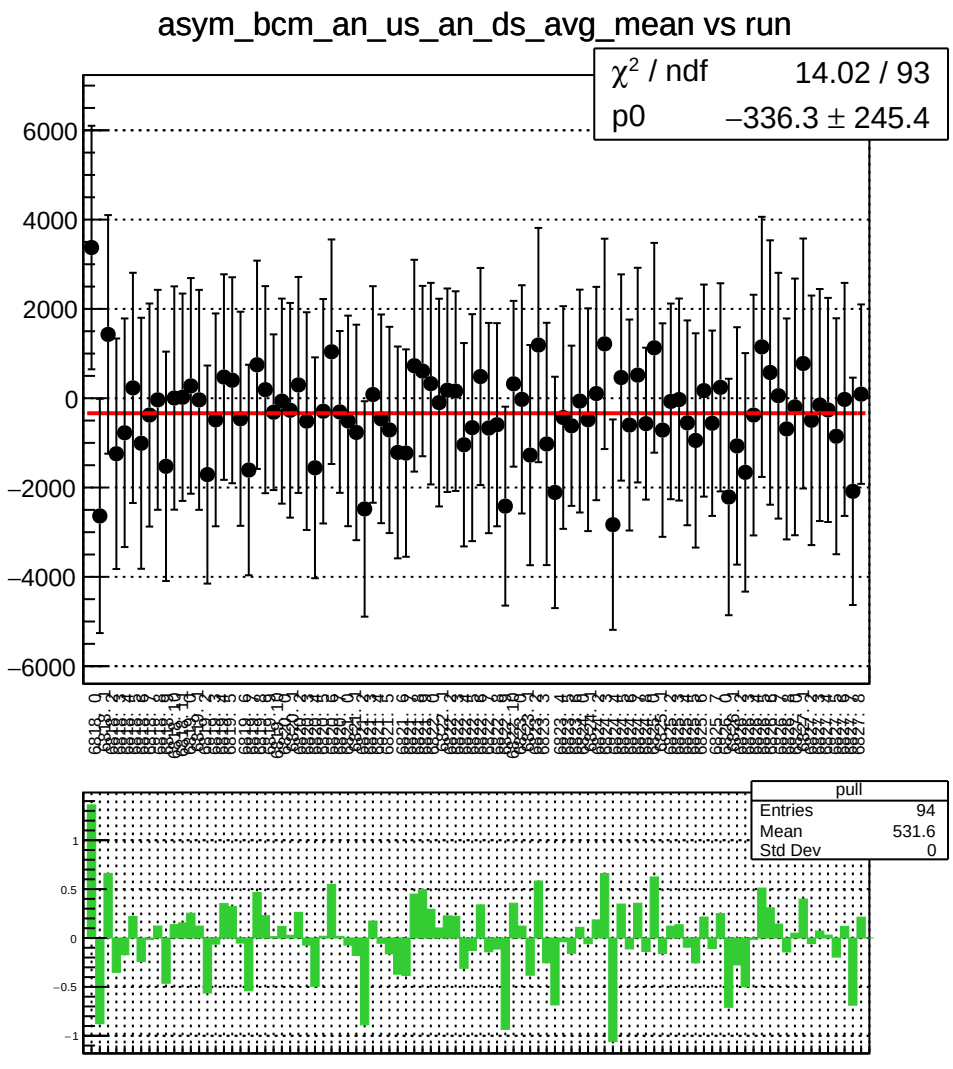

asym_bpm1i06WS_rms vs run
χ² / ndf 6217 / 93
p0 249.9 ± 0.1868
360
340
320
300
280
260
240
220

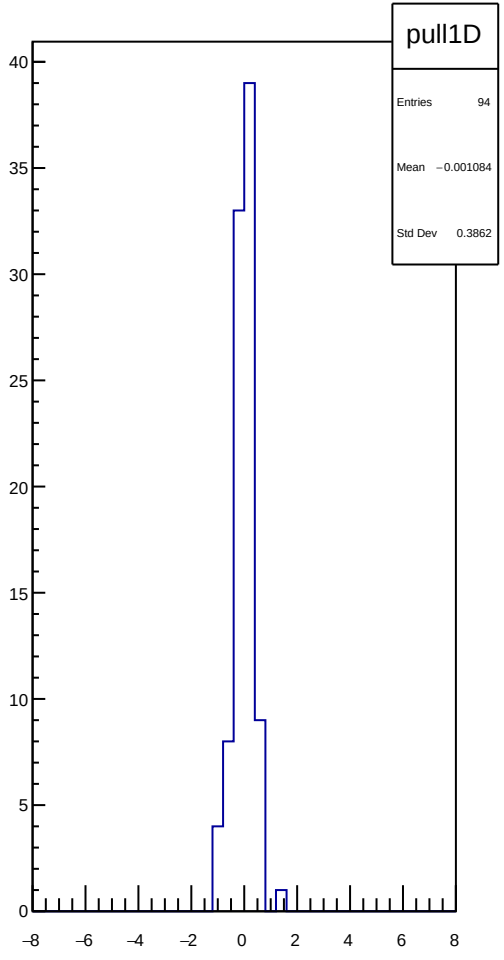

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 13.89 / 93
p0 −334.4 ± 245.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 484.8
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001317
Std Dev 0.3844
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

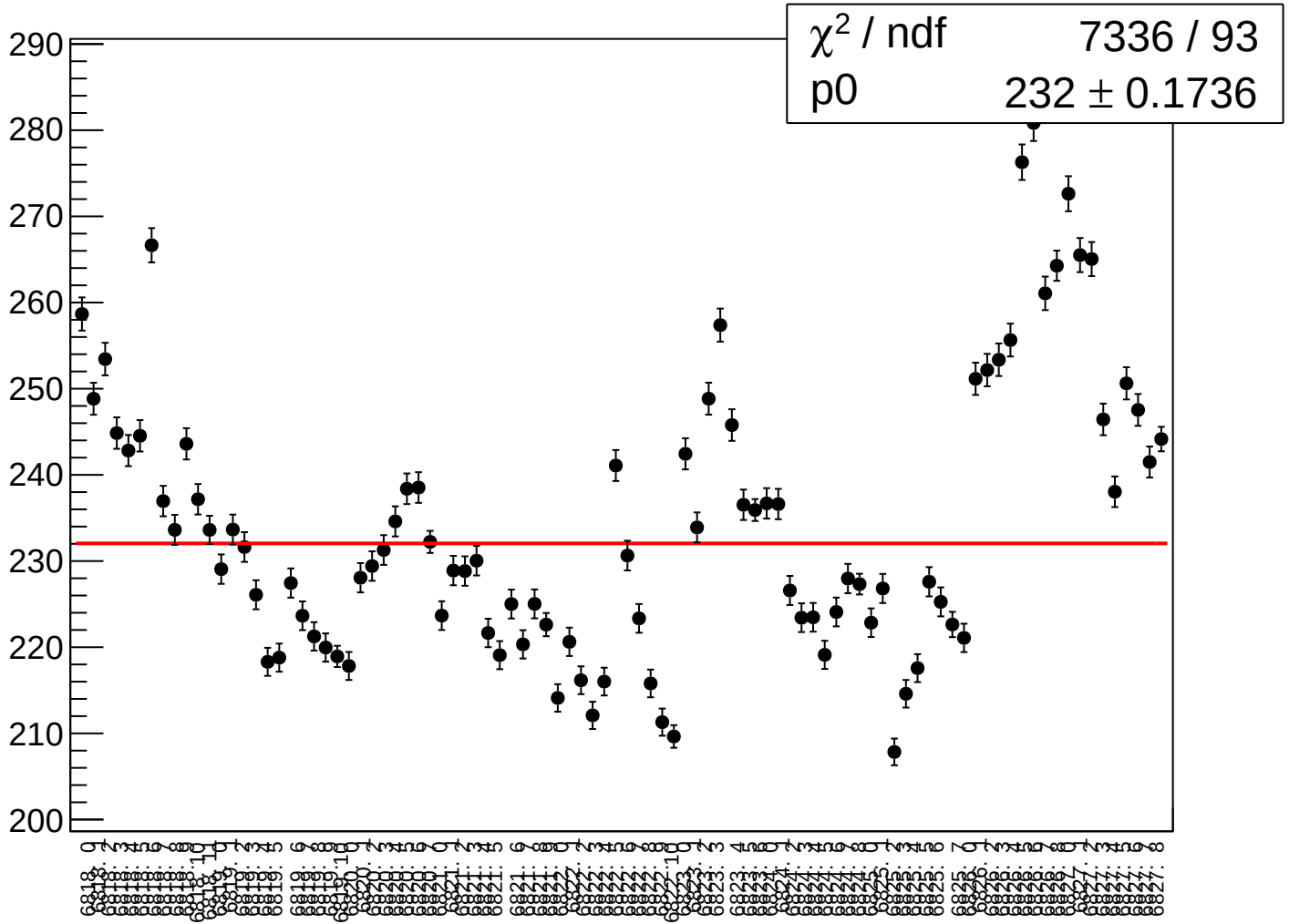

asym_bcm_2an_us_an_ds_avg_rms vs run
χ^2 / ndf 7339 / 93
p0 232.2 ± 0.1737
290
280
270
260
250
240
230
220
210
200

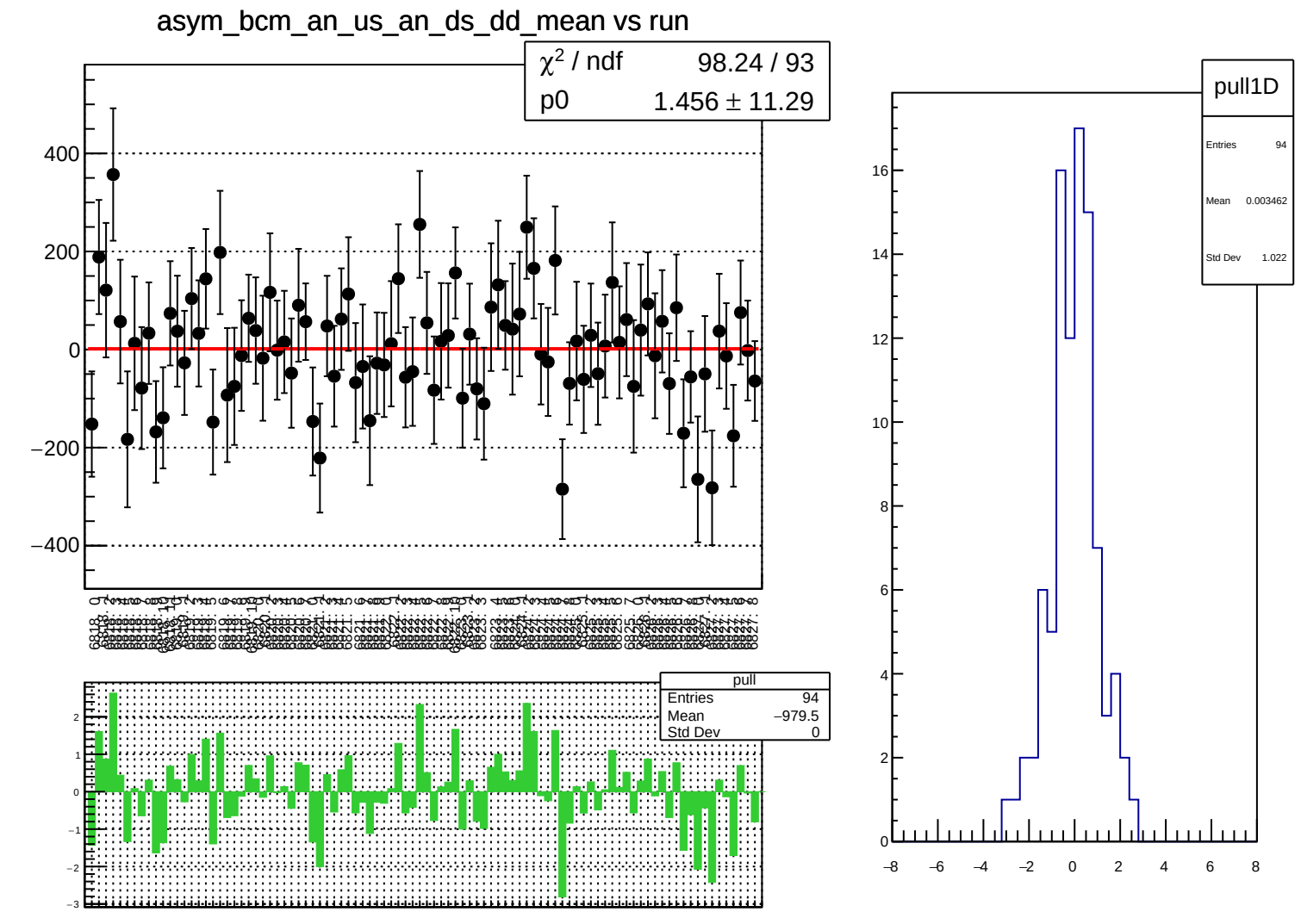

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 14.23 / 93
p0 −106.4 ± 83.03
pull
Entries 94
Mean 361.1
Std Dev 0
pull1D
Entries 94
Mean −0.003118
Std Dev 0.389

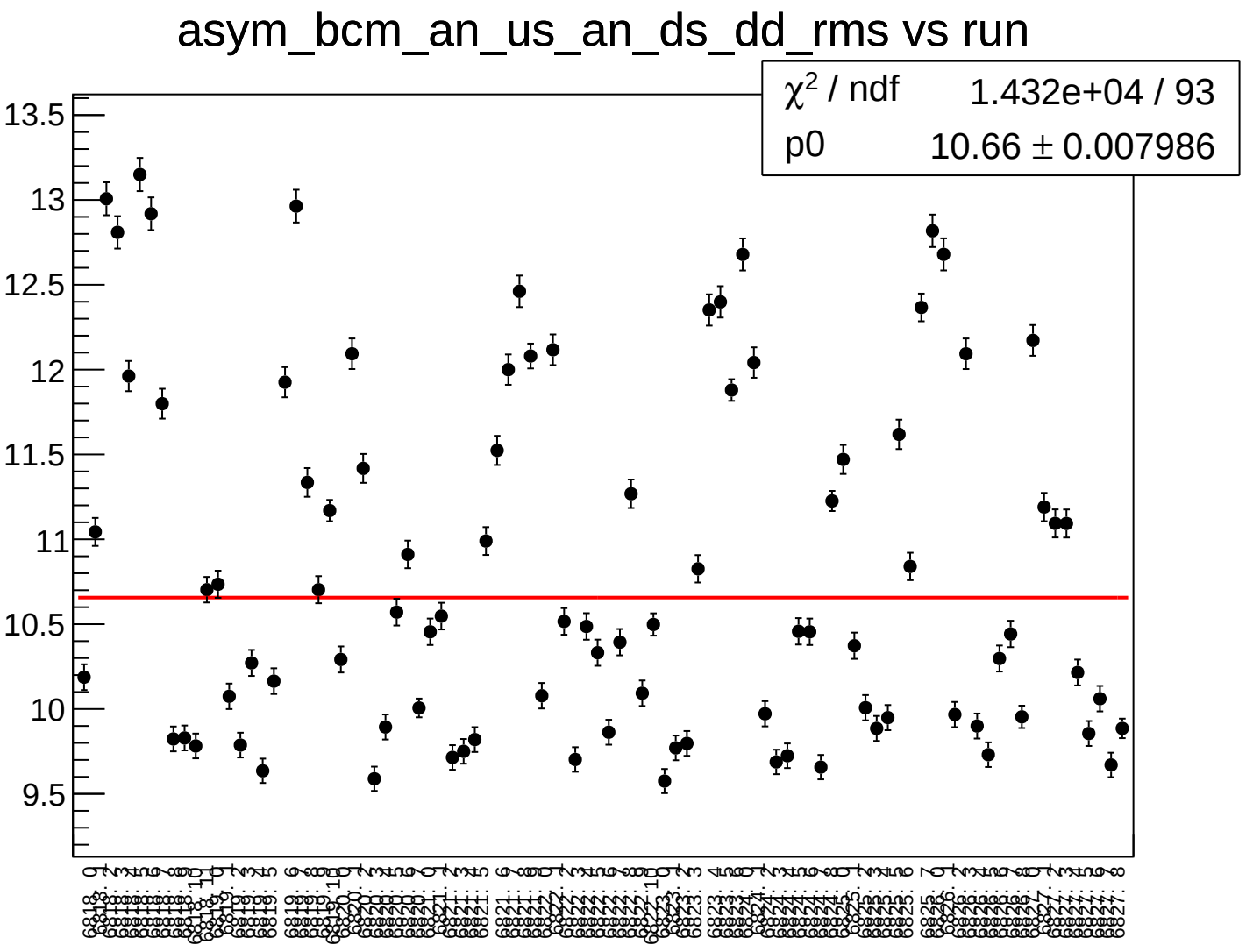

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 7185 / 93
p0 78.5 ± 0.05871
95
90
85
80
75
70

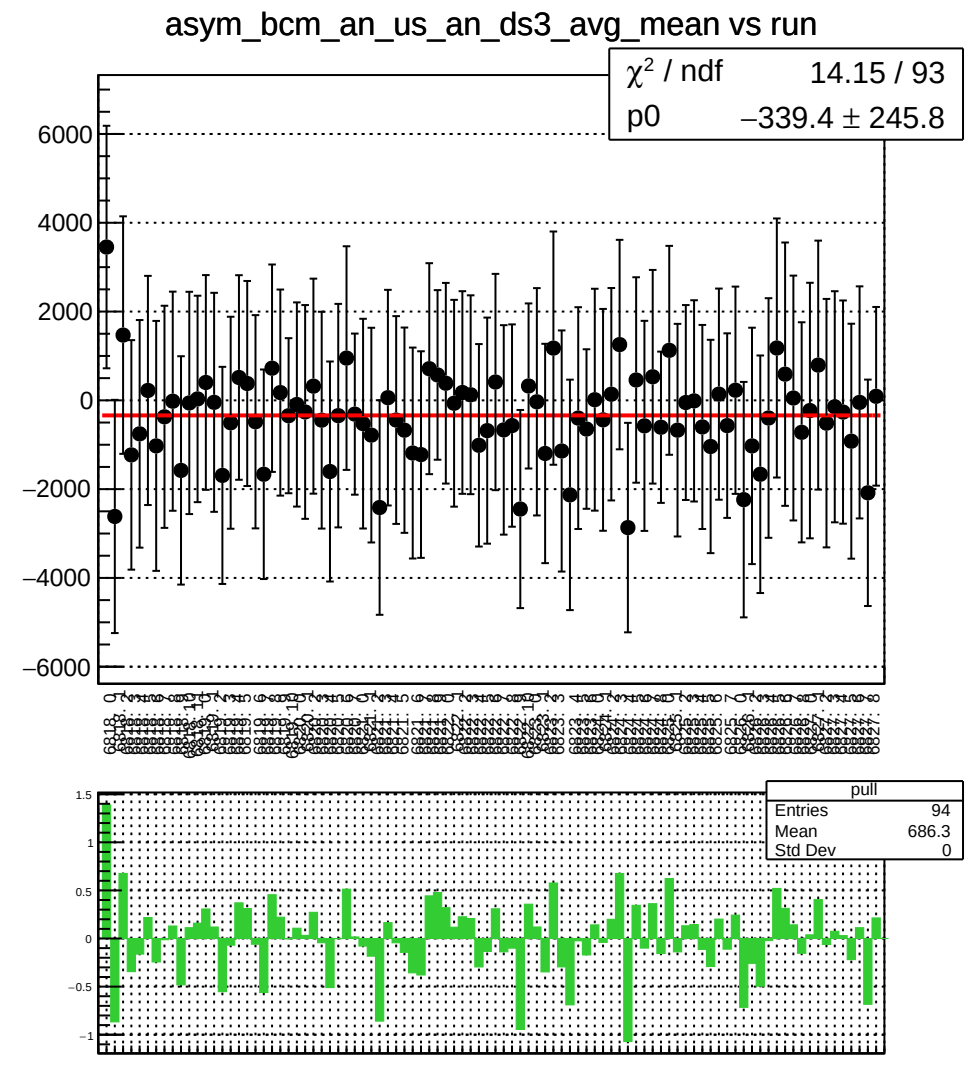

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 14.02 / 93
p0 −336.3 ± 245.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 531.6
Std Dev 0
1
0.5
0
−0.5
−1

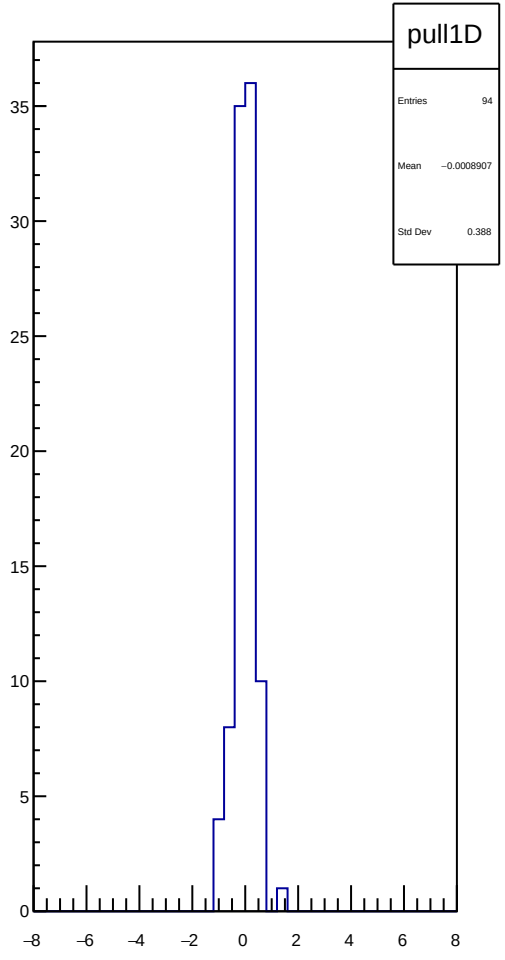

pull1D
Entries 94
Mean −0.001084
Std Dev 0.3862
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

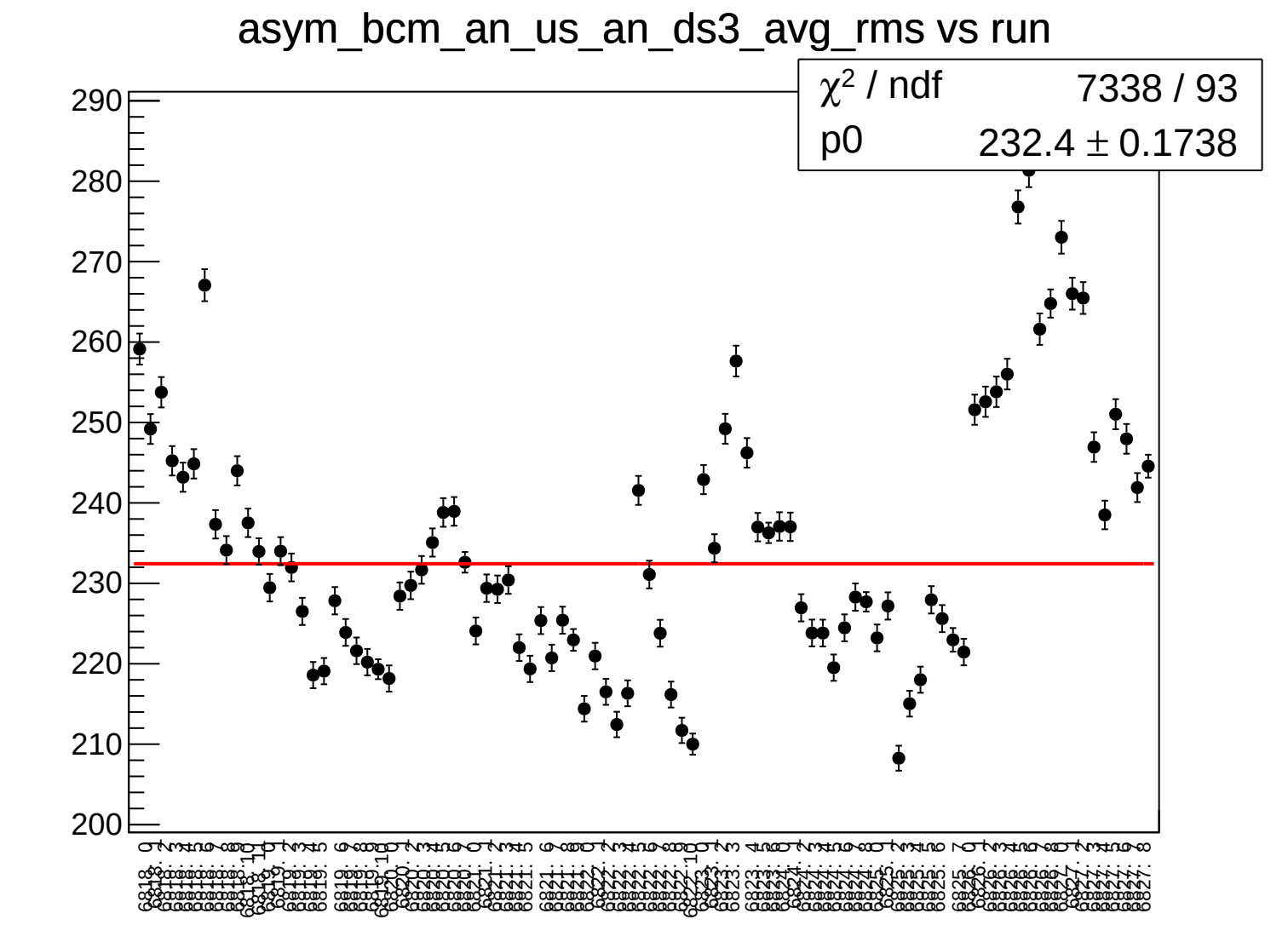

asym_bcm_an_us_an_ds_avg_rms vs run
χ^2 / ndf 7336 / 93
p0 232 ± 0.1736
290
280
270
260
250
240
230
220
210
200

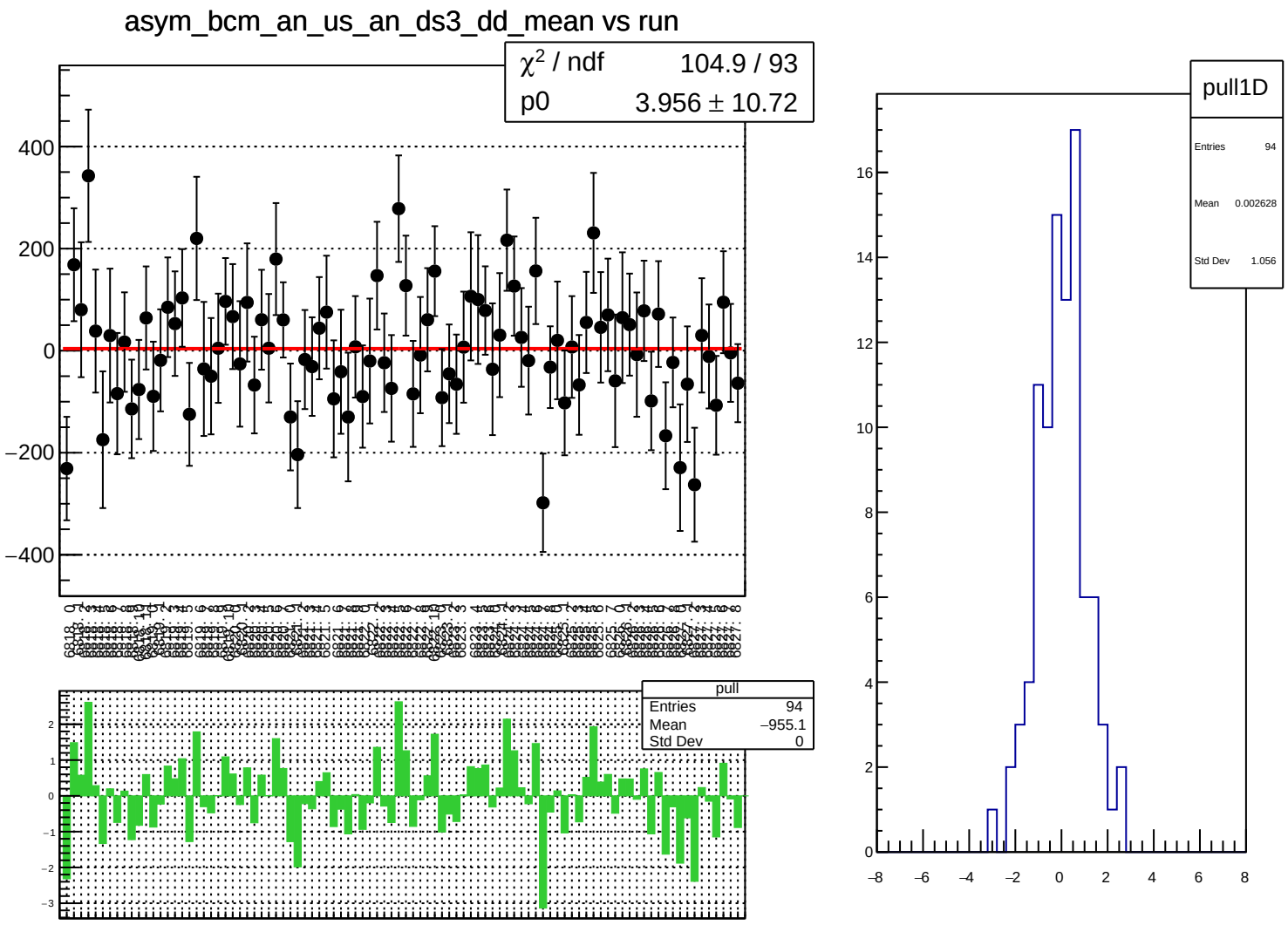

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 98.24 / 93
p0 1.456 ± 11.29
400
200
0
−200
−400
pull
Entries 94
Mean −979.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003462
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

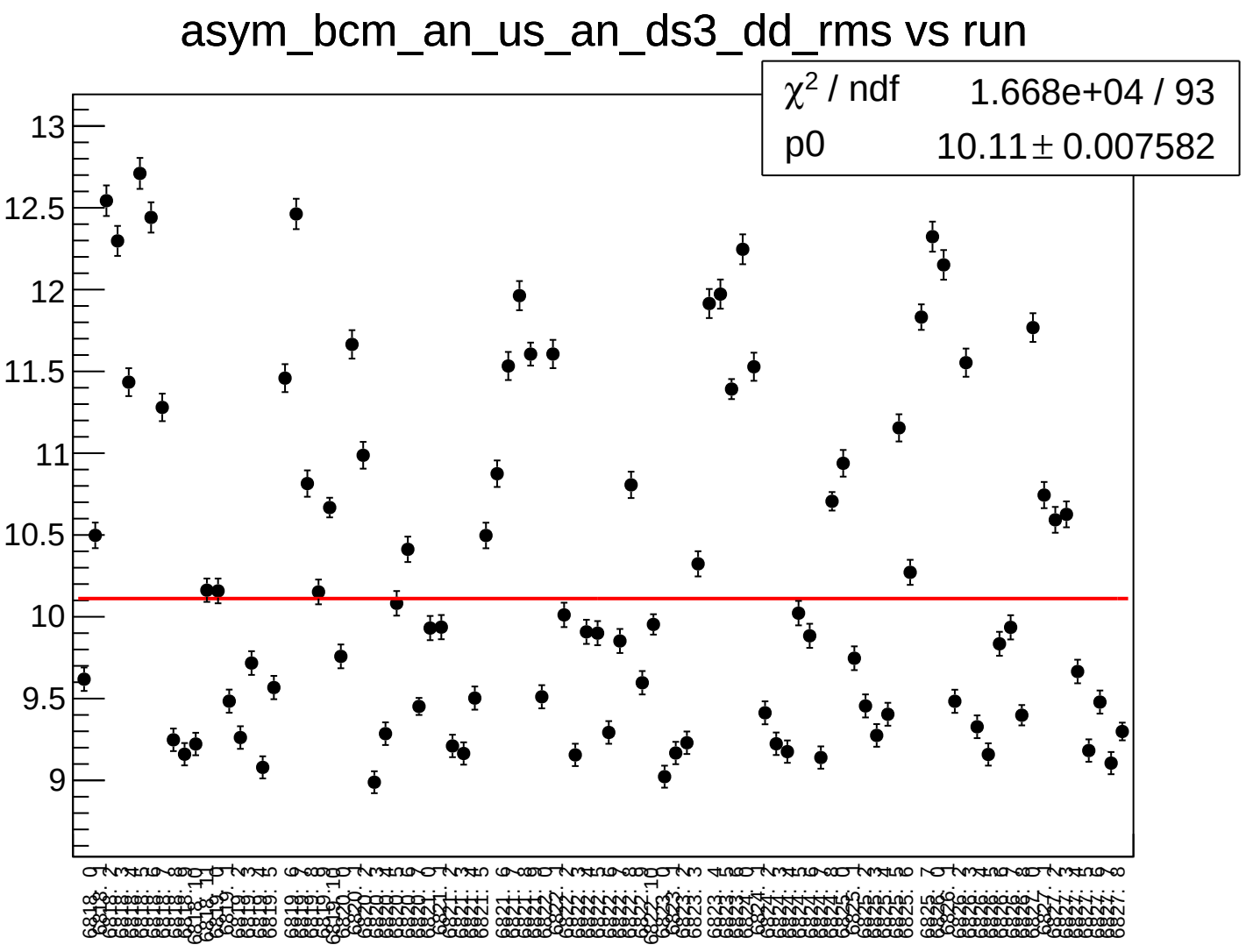

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.432e+04 / 93
p0 10.66 ± 0.007986
13.5
13
12.5
12
11.5
11
10.5
10
9.5

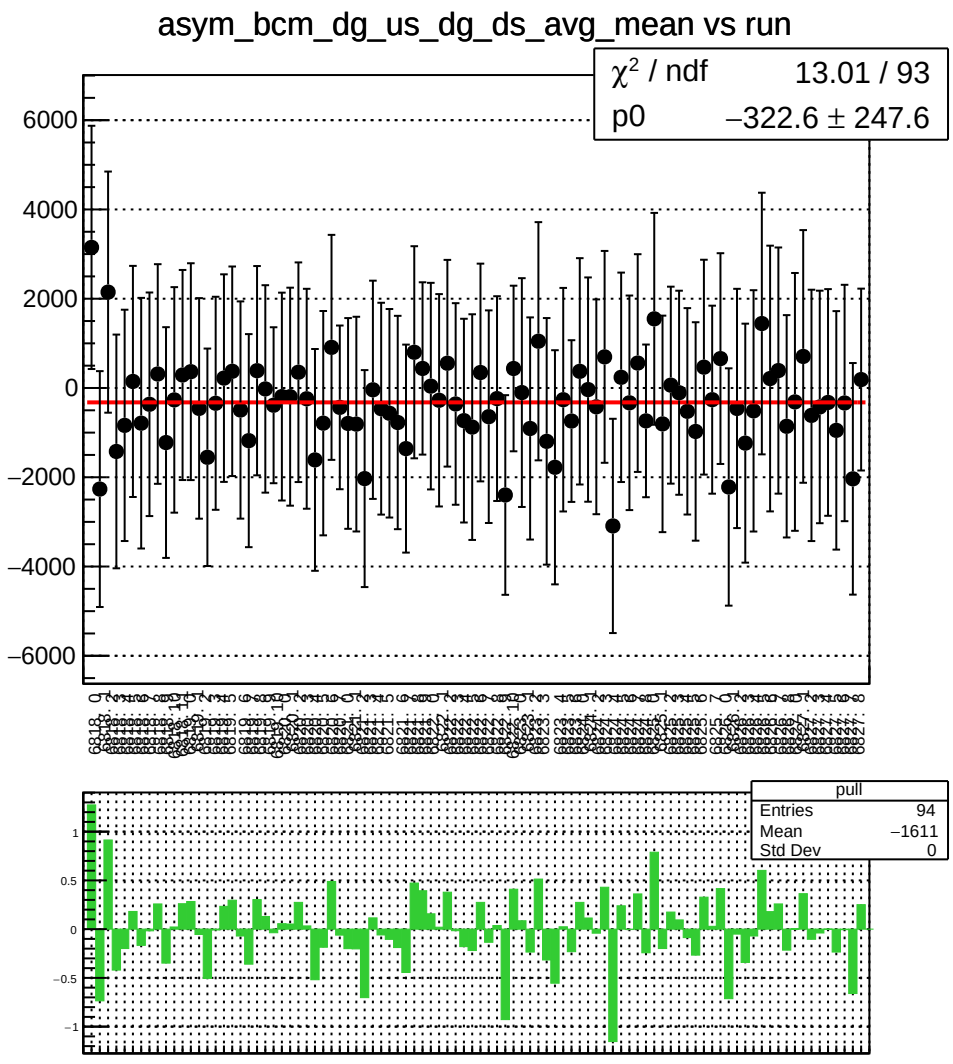

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 14.15 / 93
p0 −339.4 ± 245.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 686.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

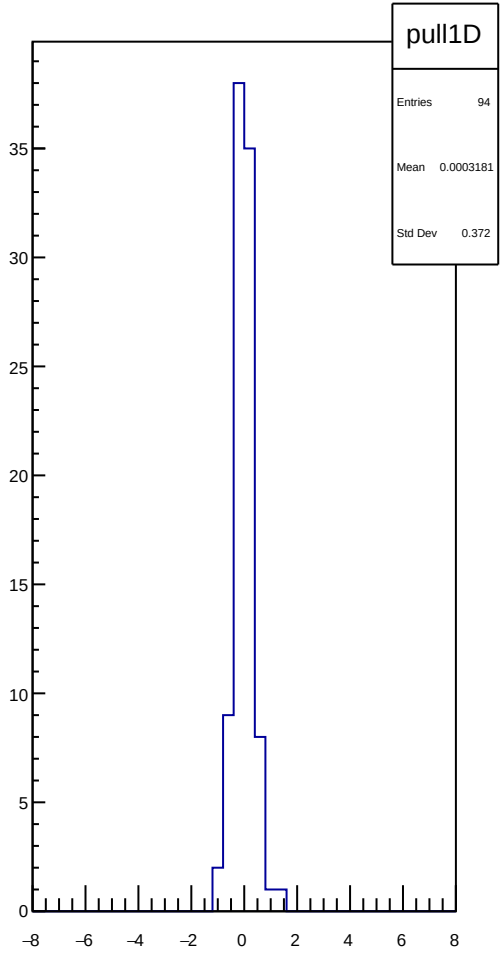

pull1D
Entries 94
Mean −0.0008907
Std Dev 0.388
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

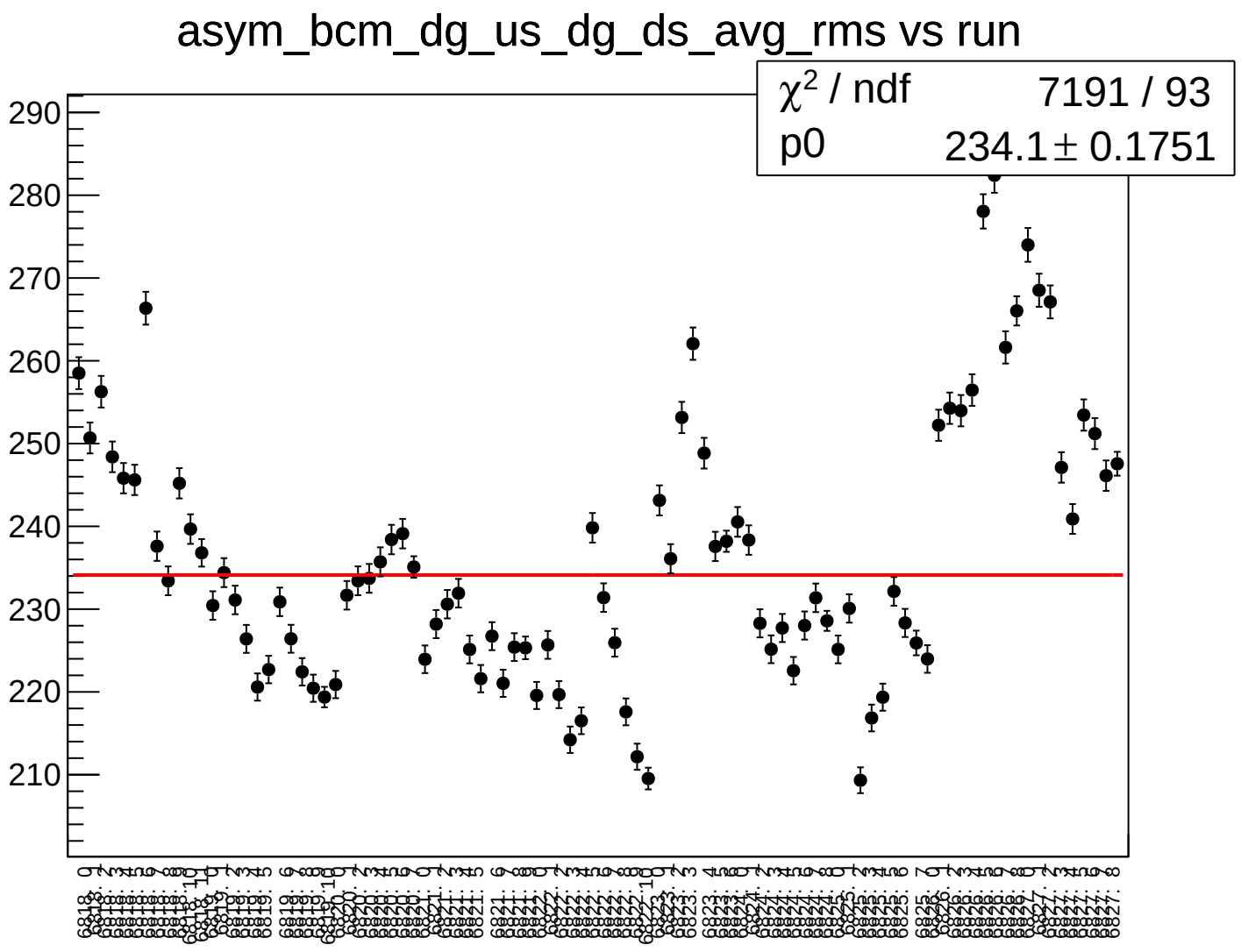

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 7338 / 93
p0 232.4 ± 0.1738
290
280
270
260
250
240
230
220
210
200

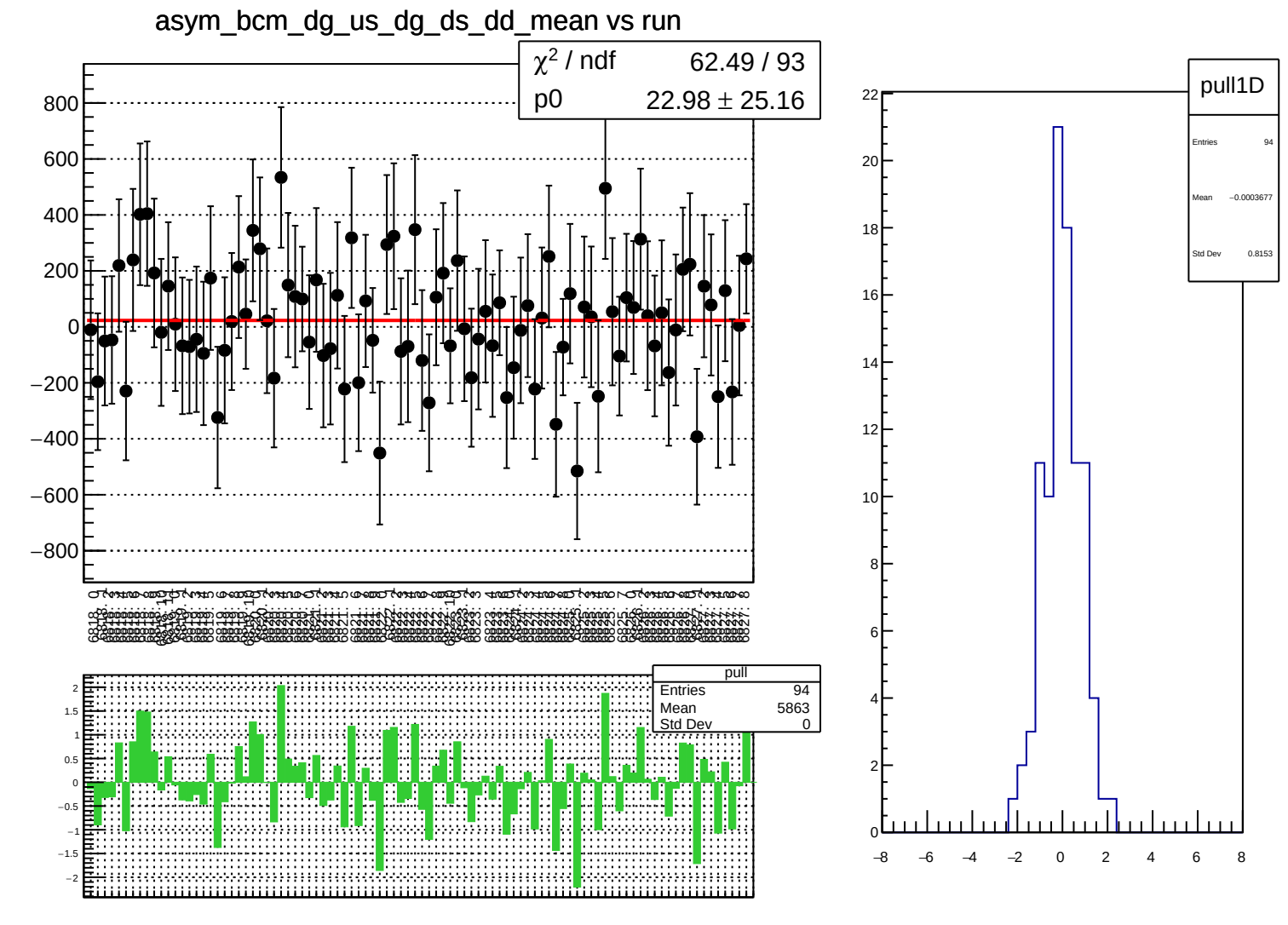

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 104.9 / 93
p0 3.956 ± 10.72
400
200
0
−200
−400
pull
Entries 94
Mean −955.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.002628
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

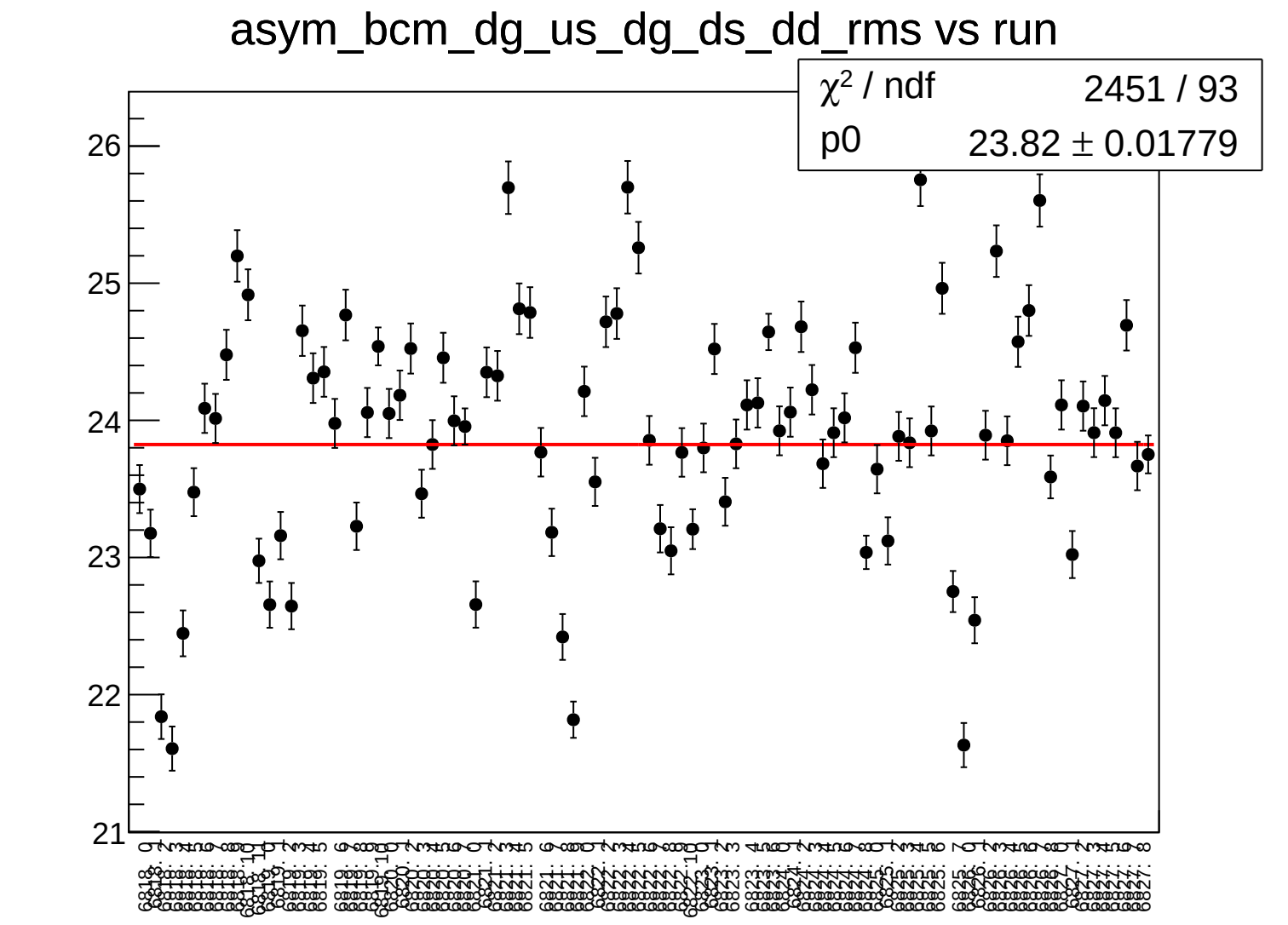

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.668e+04 / 93
p0 10.11 ± 0.007582
13
12.5
12
11.5
11
10.5
10
9.5
9

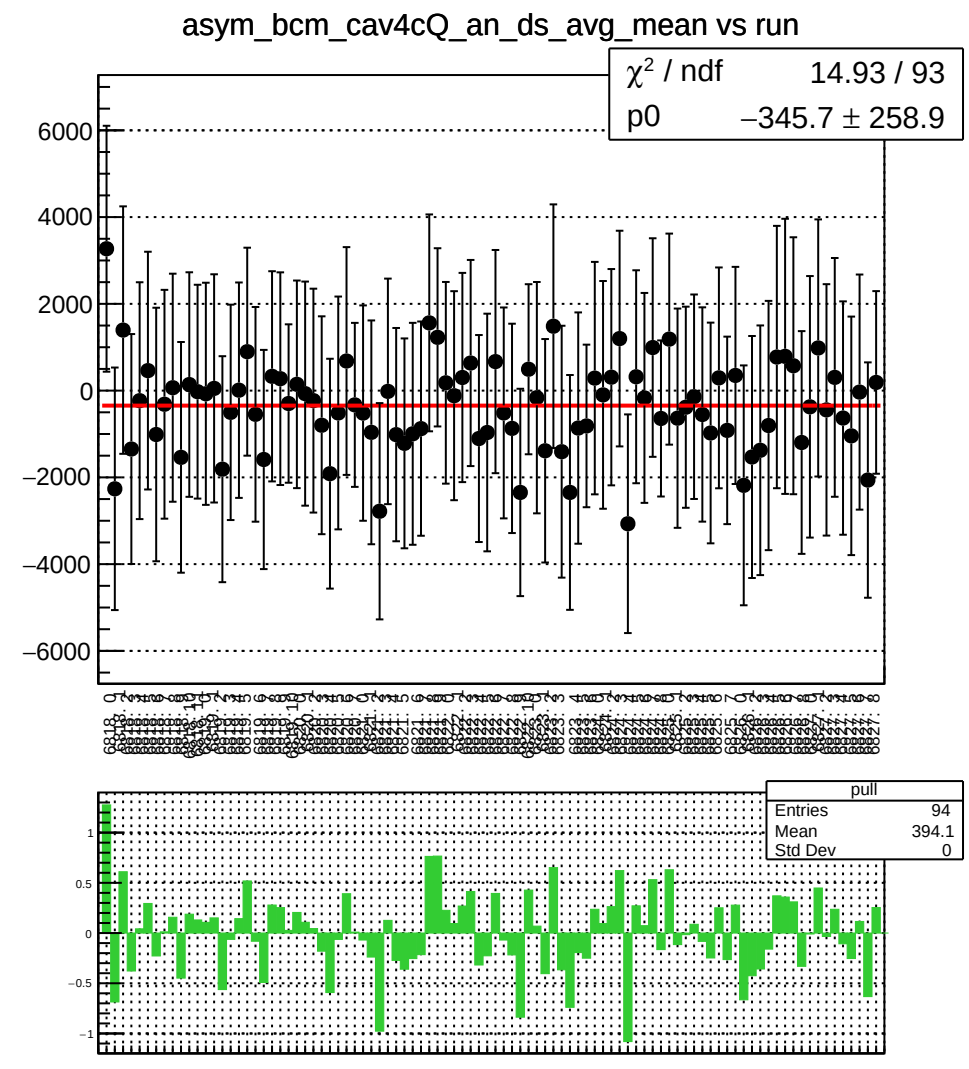

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 13.01 / 93
p0 −322.6 ± 247.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −1611
Std Dev 0
1
0.5
0
−0.5
−1

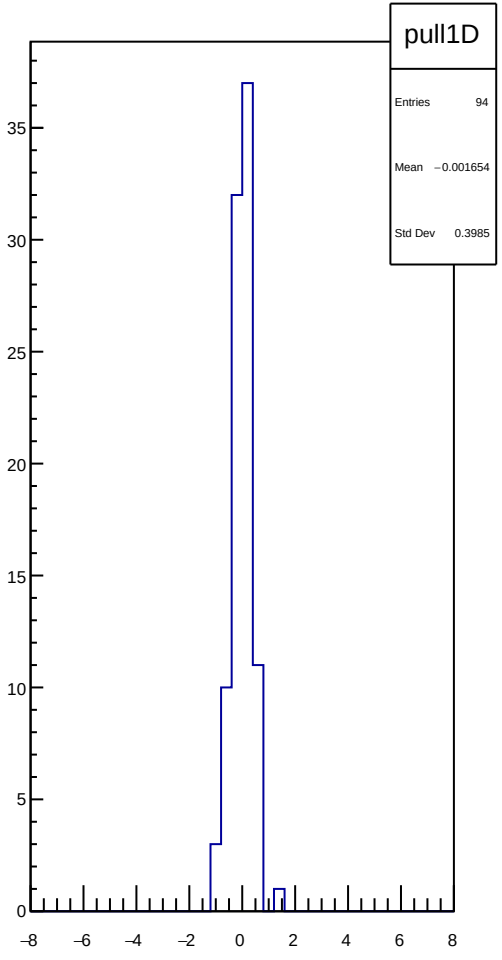

pull1D
Entries 94
Mean 0.0003181
Std Dev 0.372
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_avg_rms vs run
χ^2 / ndf 7191 / 93
p0 234.1 ± 0.1751
290
280
270
260
250
240
230
220
210


asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 62.49 / 93
p0 22.98 ± 25.16
pull
Entries 94
Mean 5863
Std Dev 0
pull1D
Entries 94
Mean −0.0003677
Std Dev 0.8153


asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2451 / 93
p0 23.82 ± 0.01779
26
25
24
23
22
21


asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 14.93 / 93
p0 −345.7 ± 258.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 394.1
Std Dev 0
1
0.5
0
−0.5
−1


pull1D
Entries 94
Mean −0.001654
Std Dev 0.3985
35
30
25
20
15
10
5
0
−8
−6
−4
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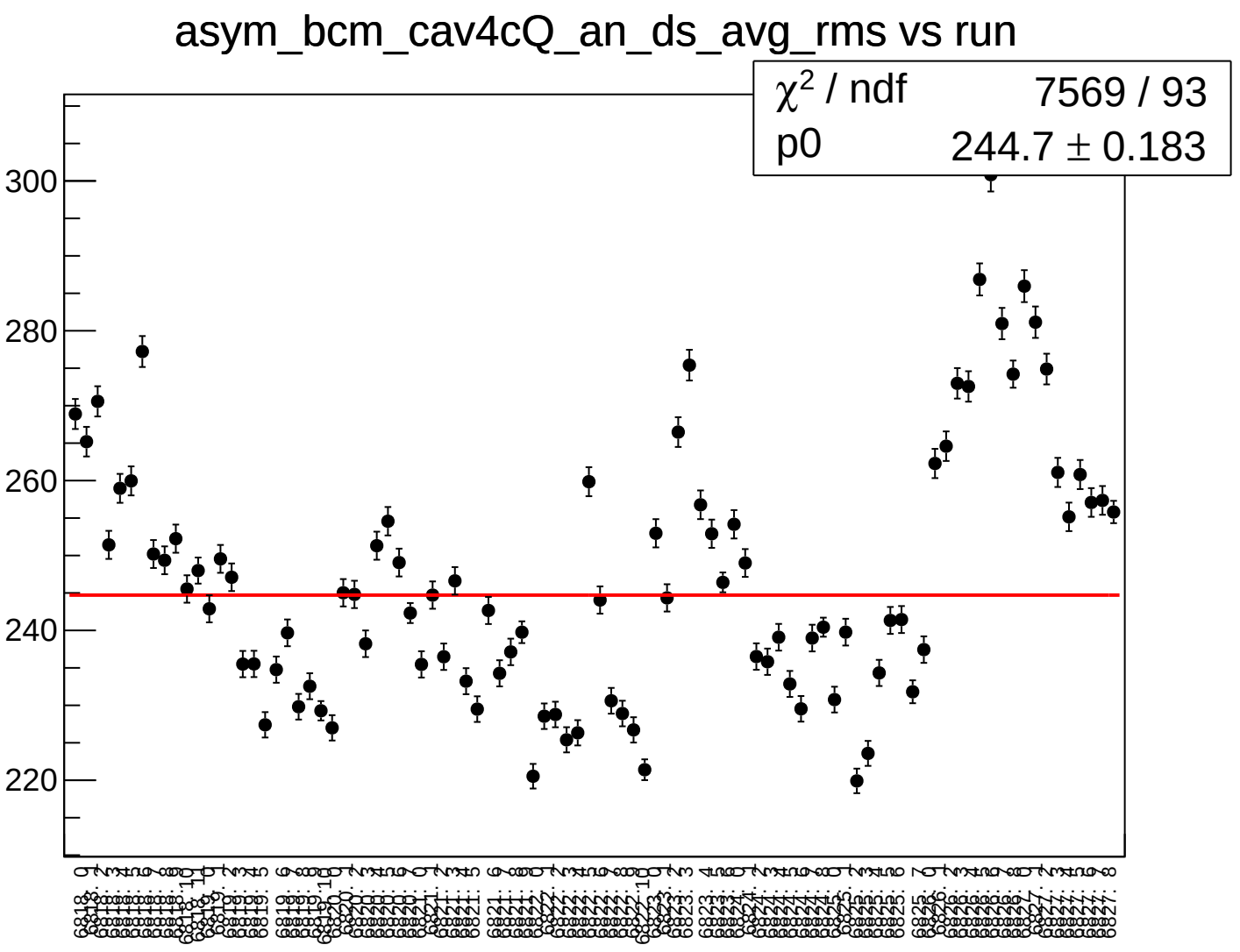
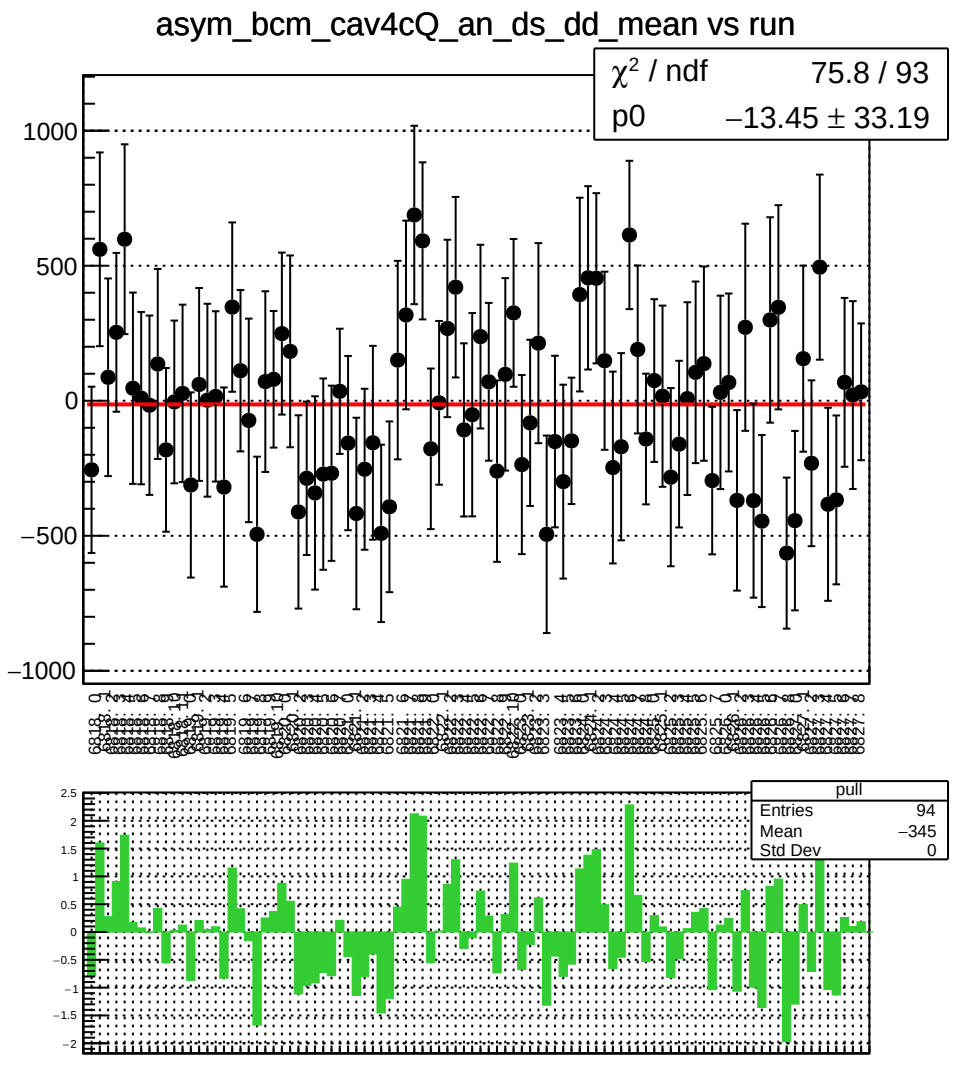
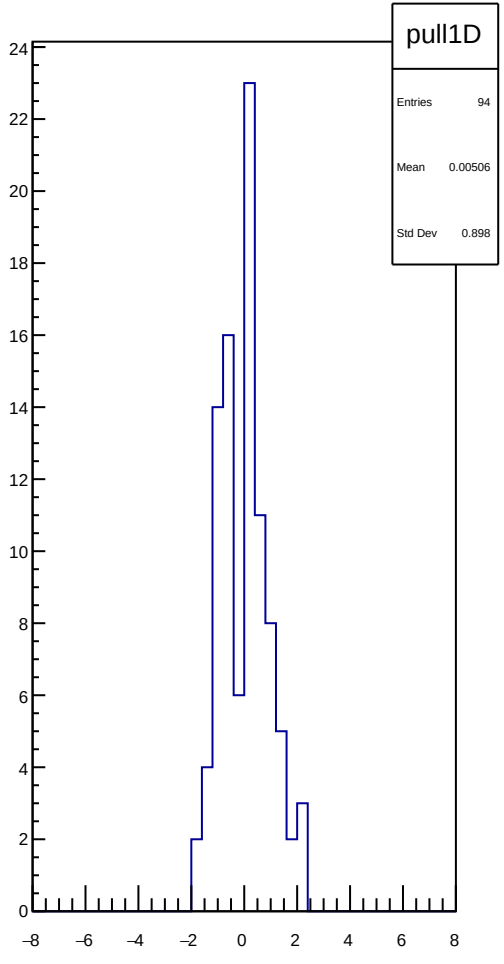
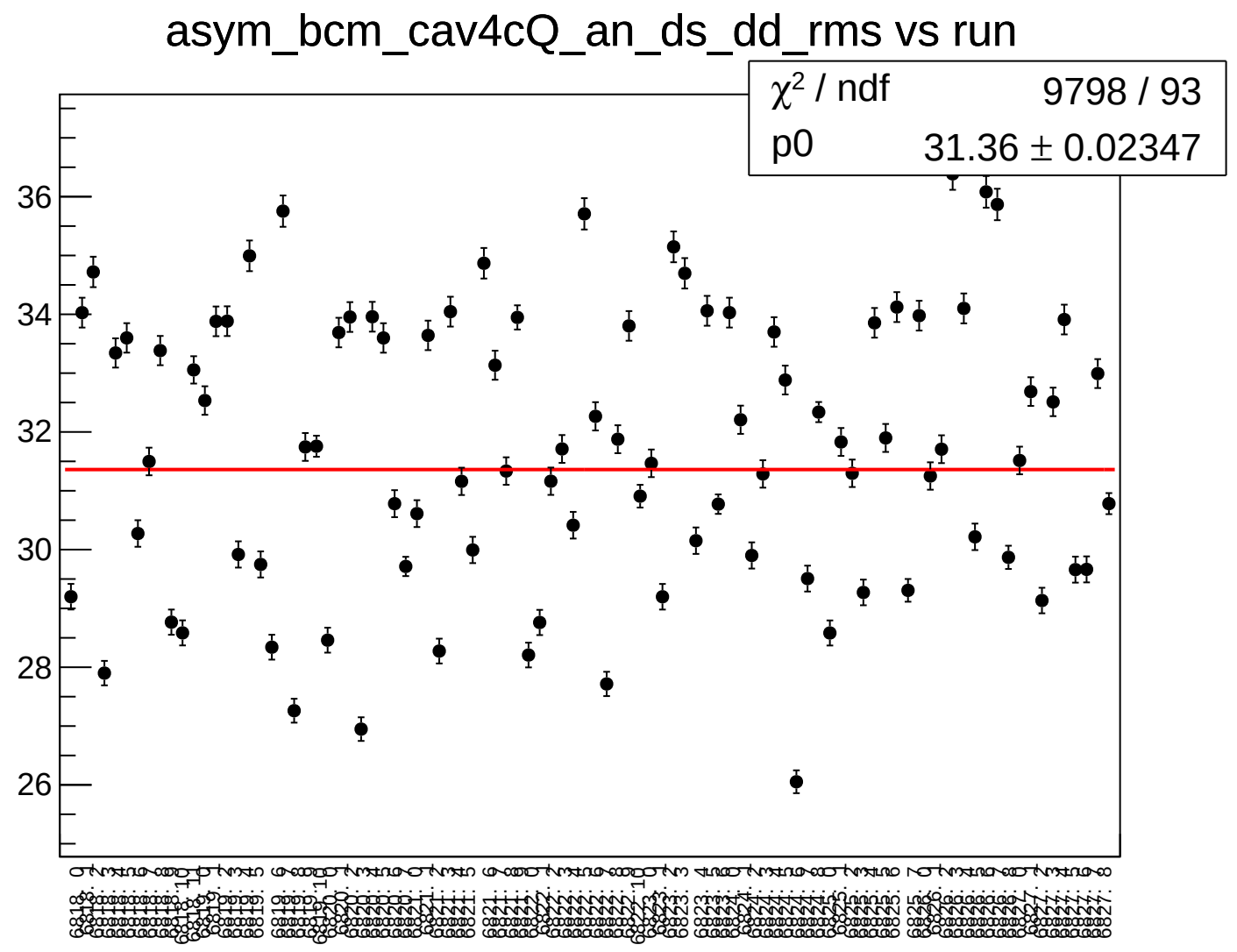
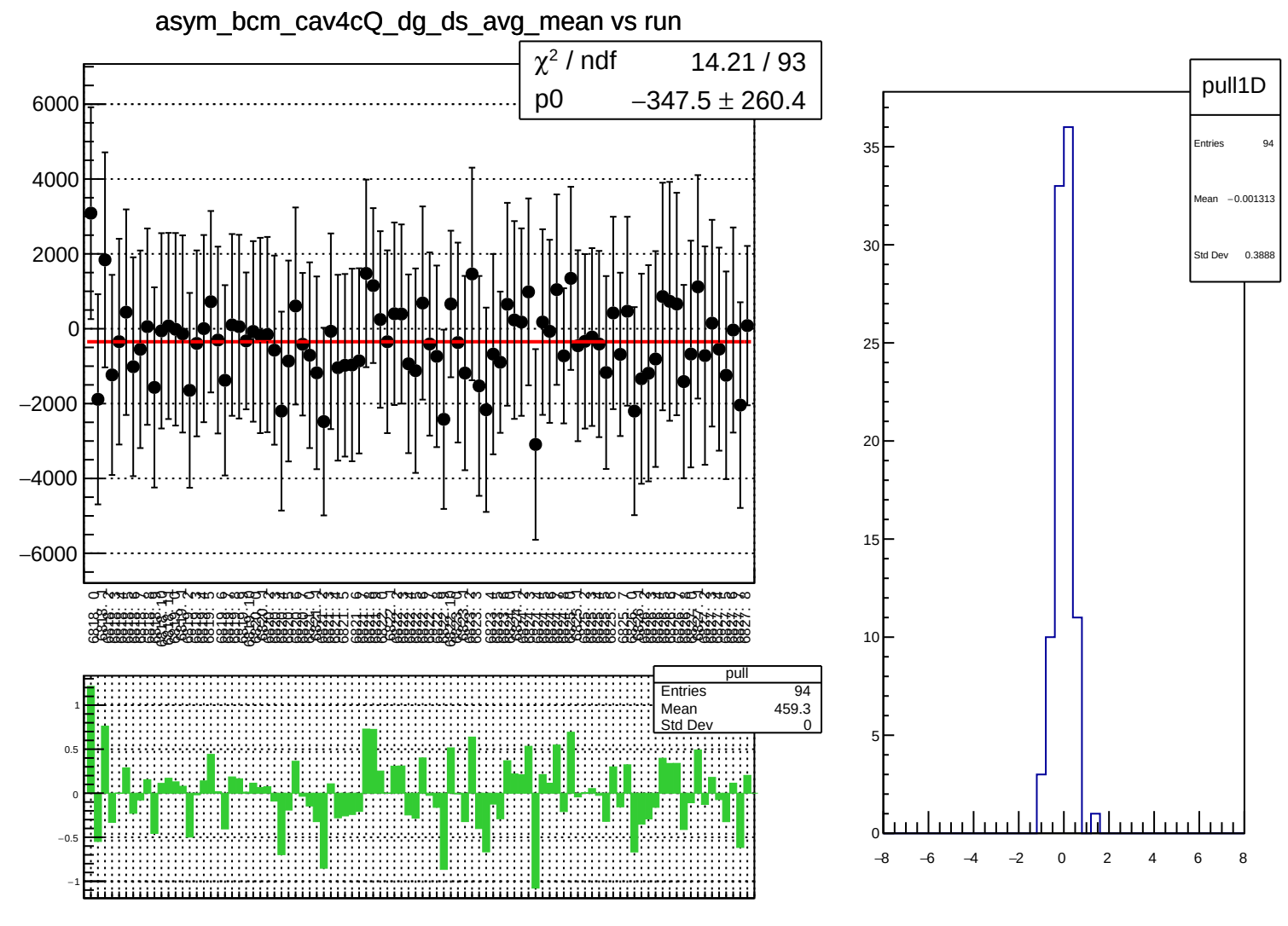
0
2
4
6
8

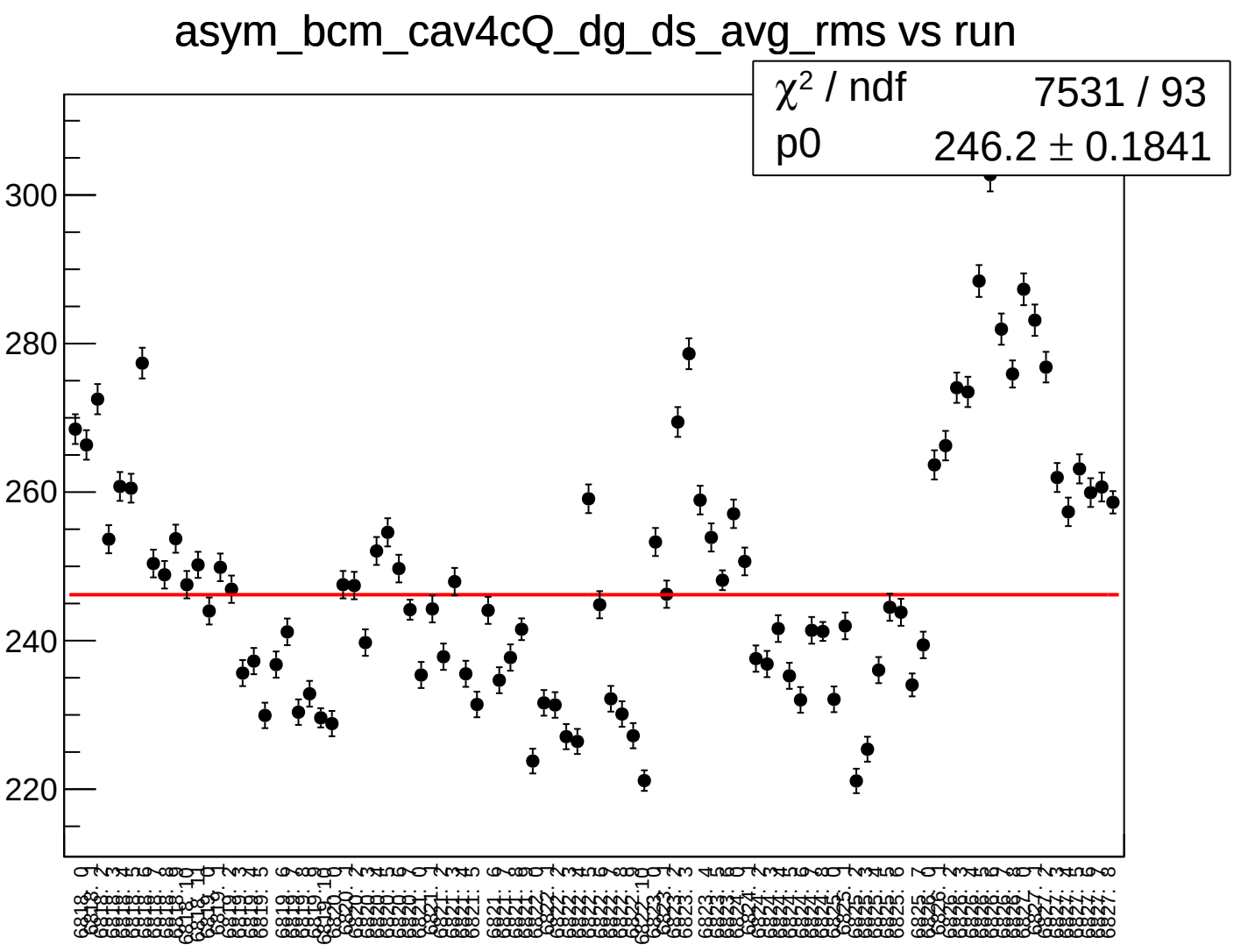

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 7569 / 93
p0 244.7 ± 0.183
300
280
260
240
220

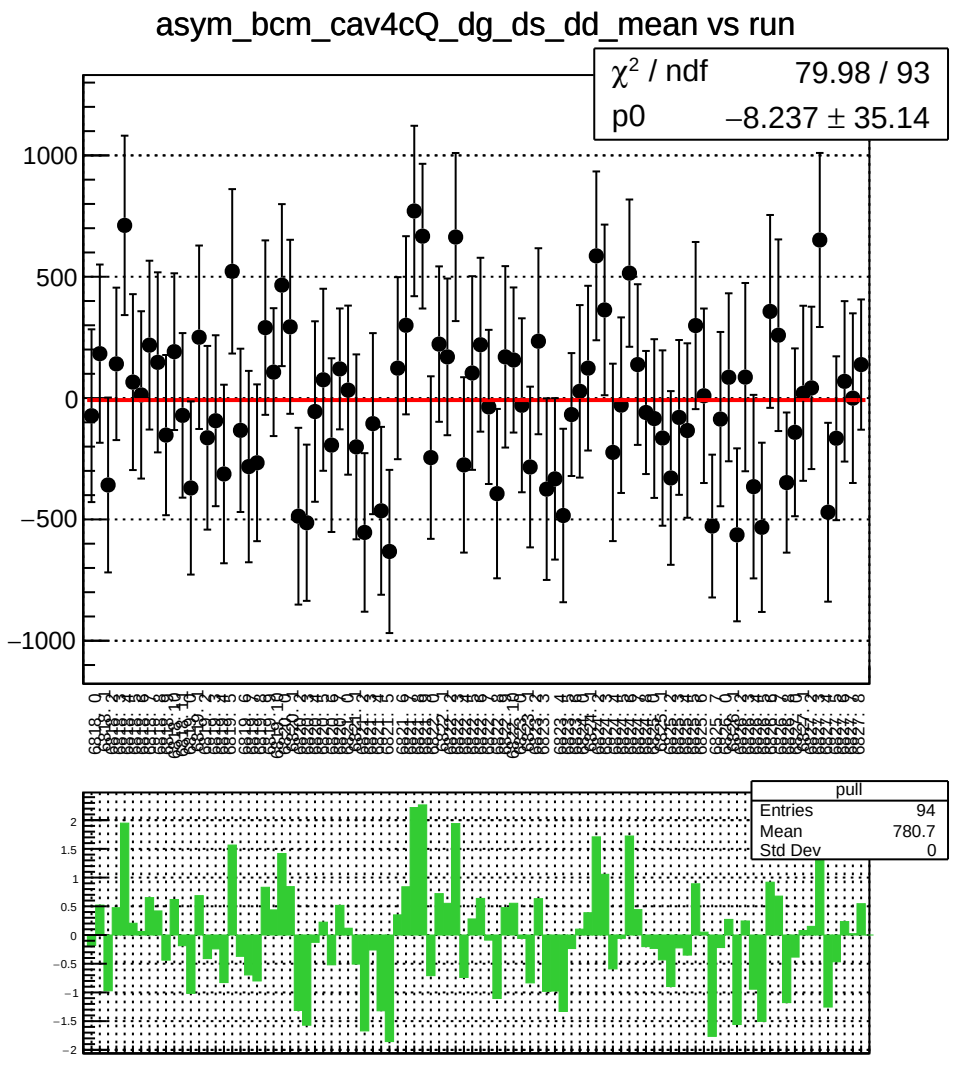

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 75.8 / 93
p0 −13.45 ± 33.19
1000
500
0
−500
−1000
pull
Entries 94
Mean −345
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

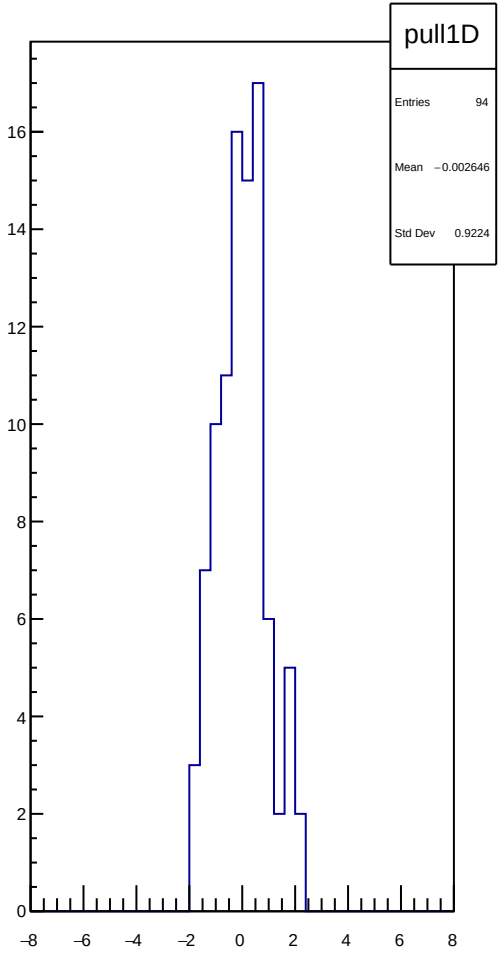

pull1D
Entries 94
Mean 0.00506
Std Dev 0.898
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

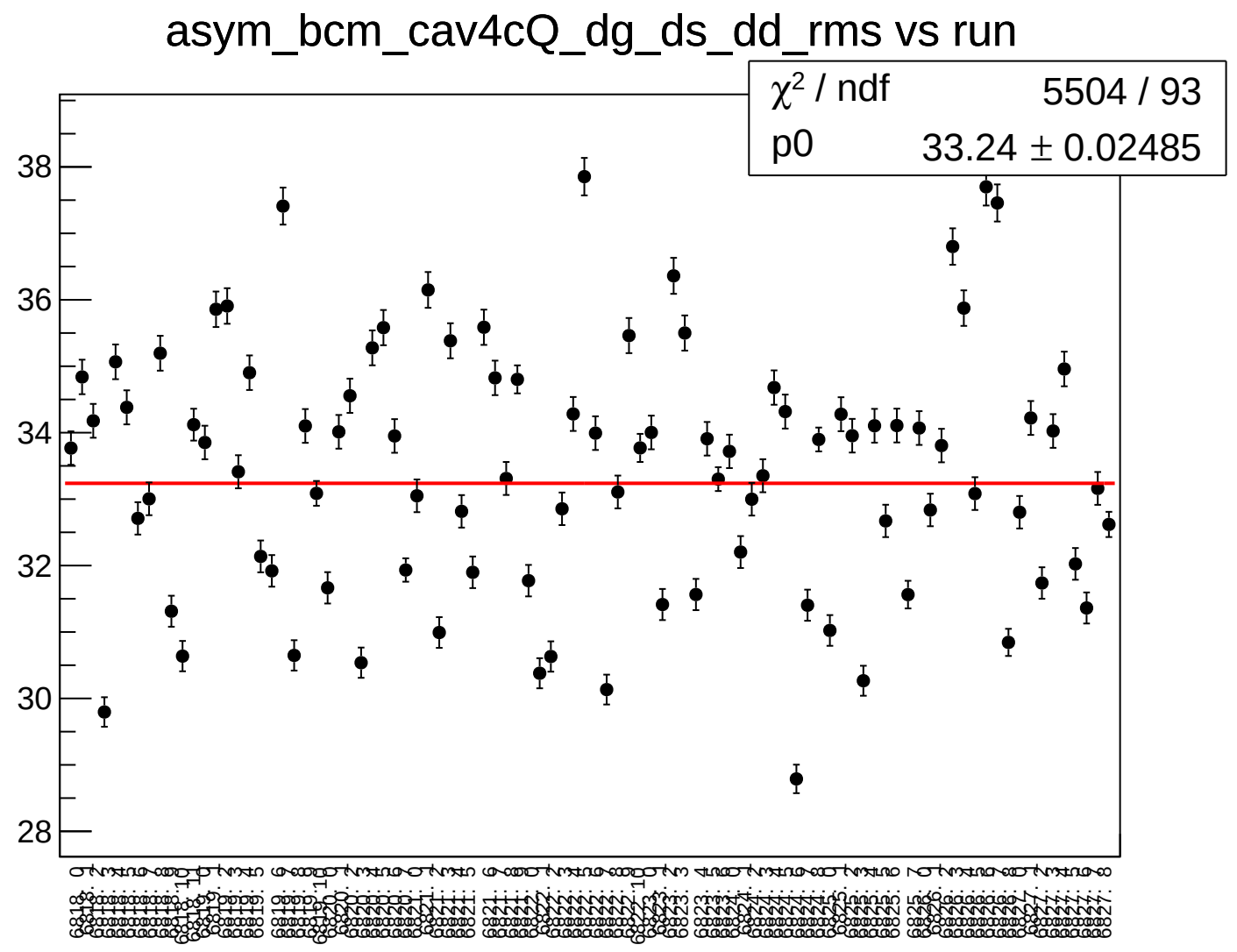

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 9798 / 93
p0 31.36 ± 0.02347
36
34
32
30
28
26

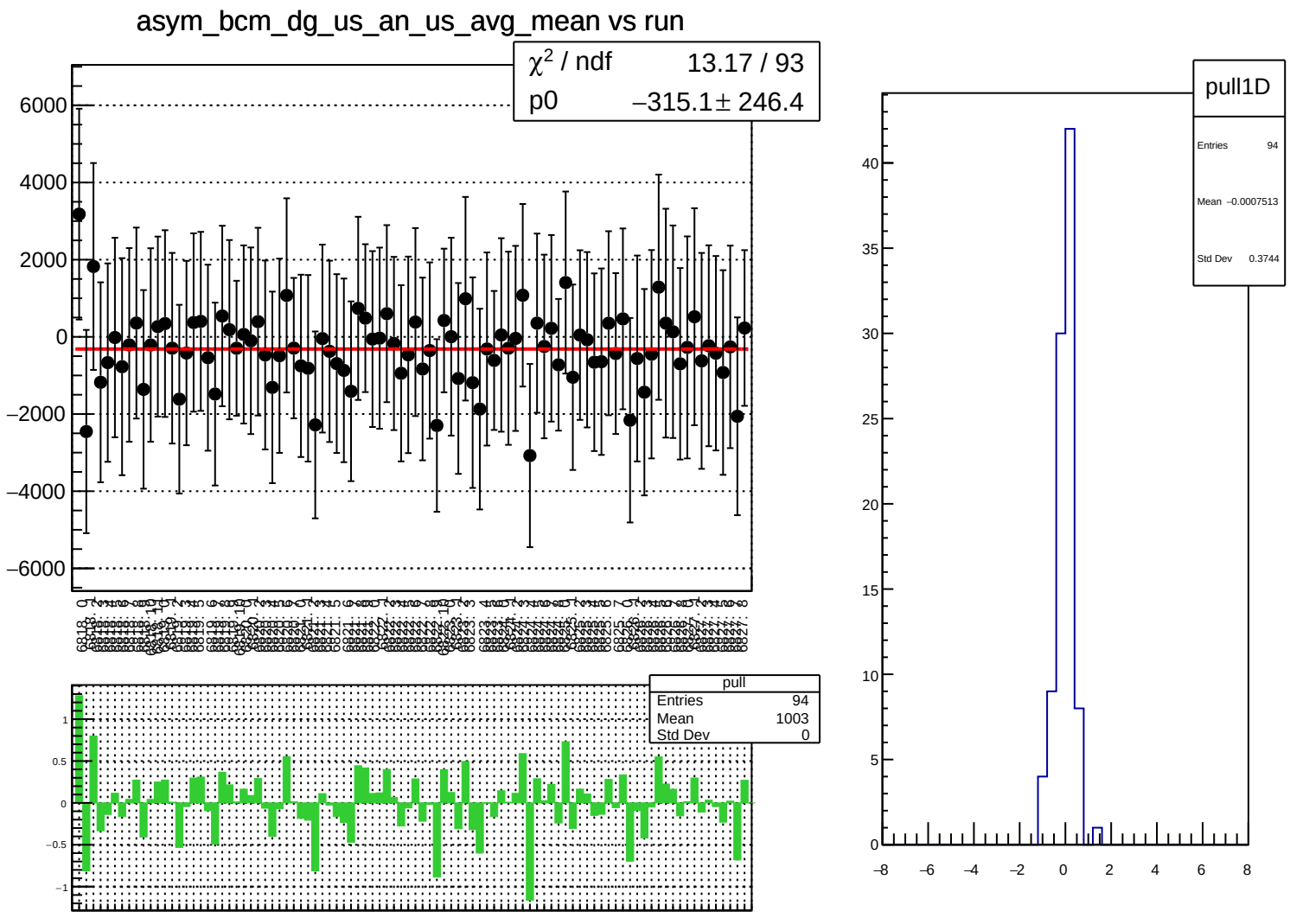

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 14.21 / 93
p0 −347.5 ± 260.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 459.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.001313
Std Dev 0.3888
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

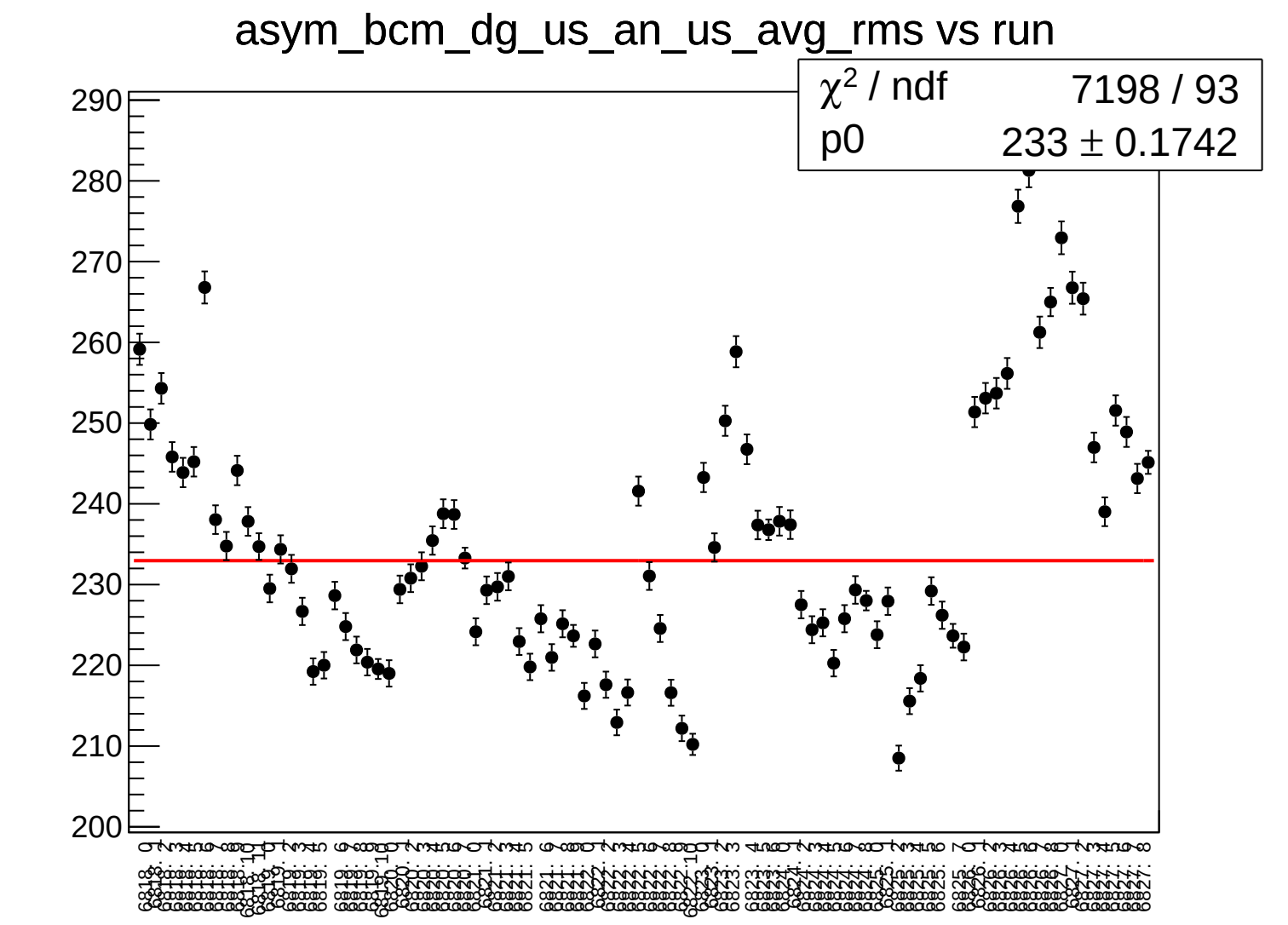

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 7531 / 93
p0 246.2 ± 0.1841
300
280
260
240
220

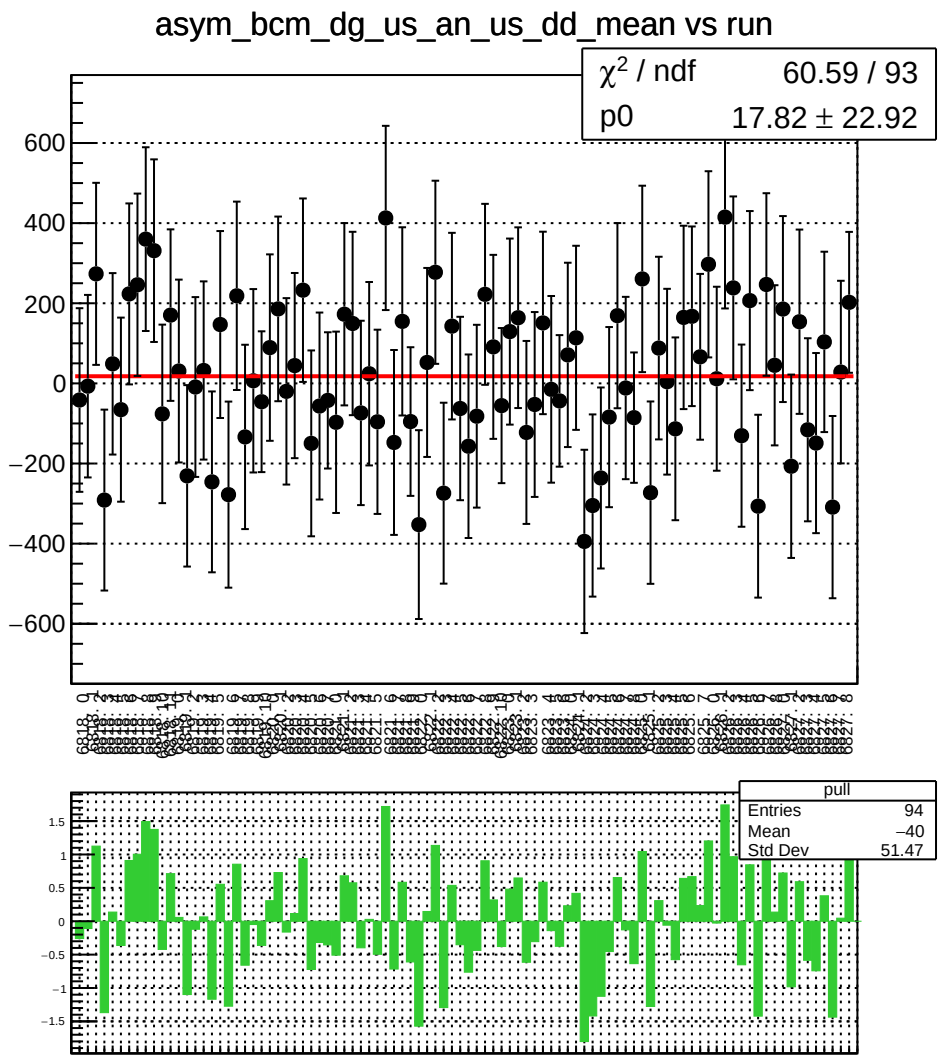

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 79.98 / 93
p0 −8.237 ± 35.14
1000
500
0
−500
−1000
pull
Entries 94
Mean 780.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

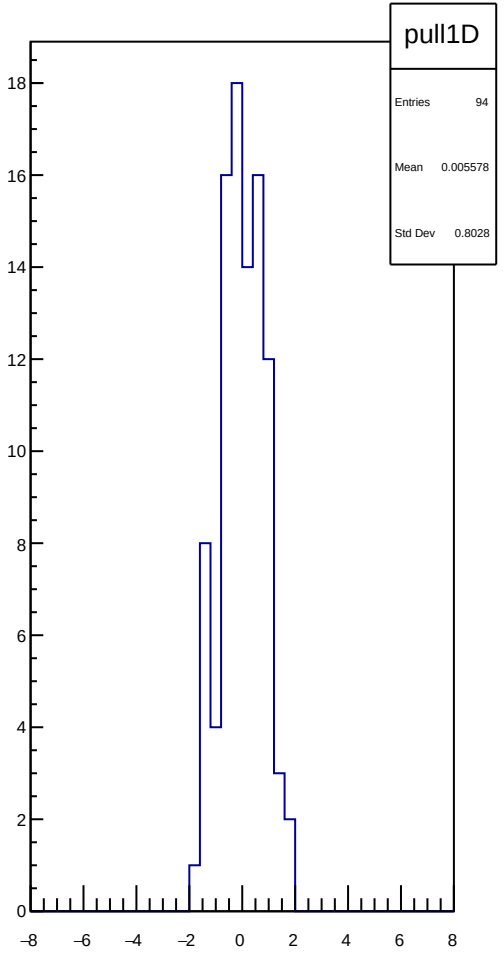

pull1D
Entries 94
Mean −0.002646
Std Dev 0.9224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

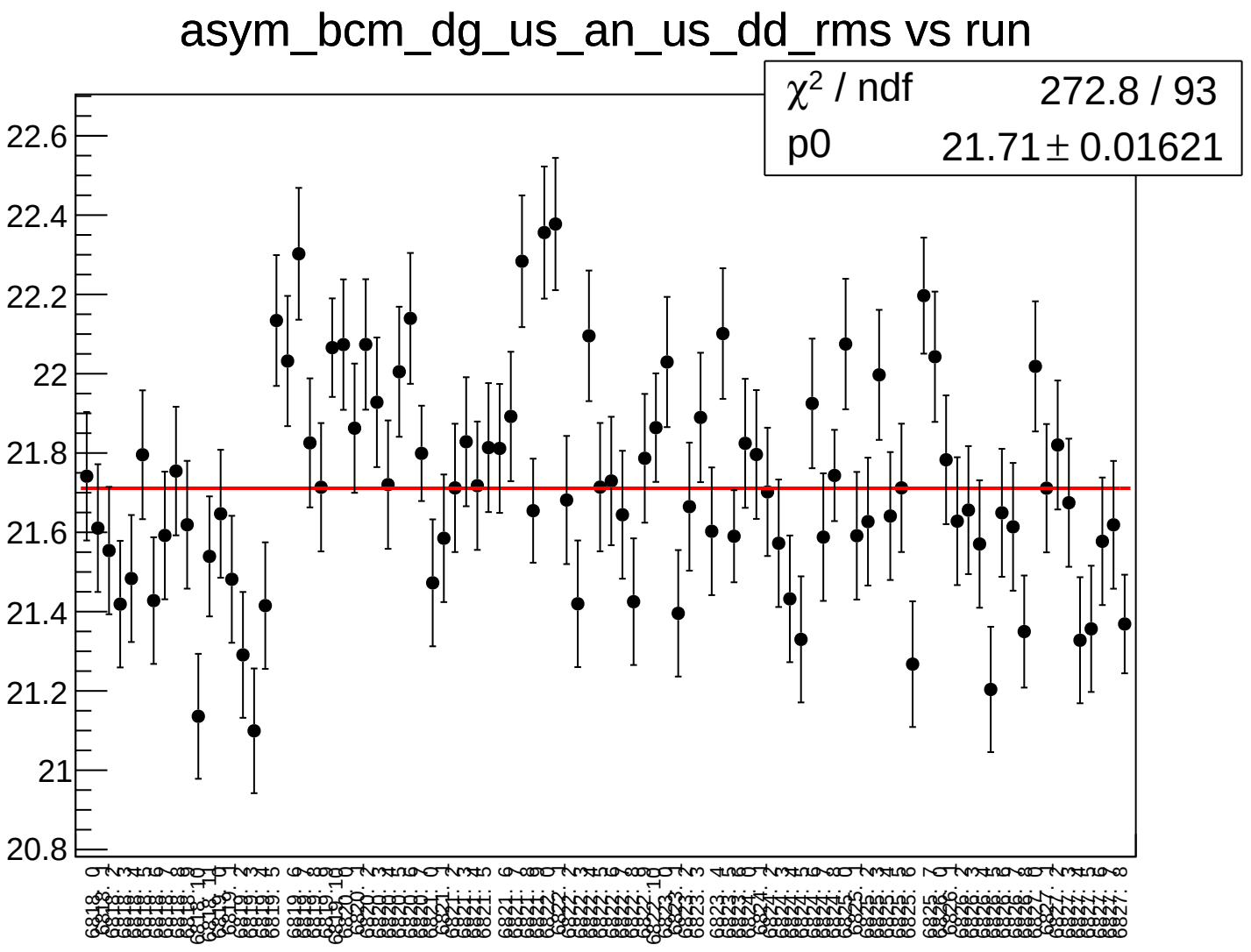

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 5504 / 93
p0 33.24 ± 0.02485
38
36
34
32
30
28

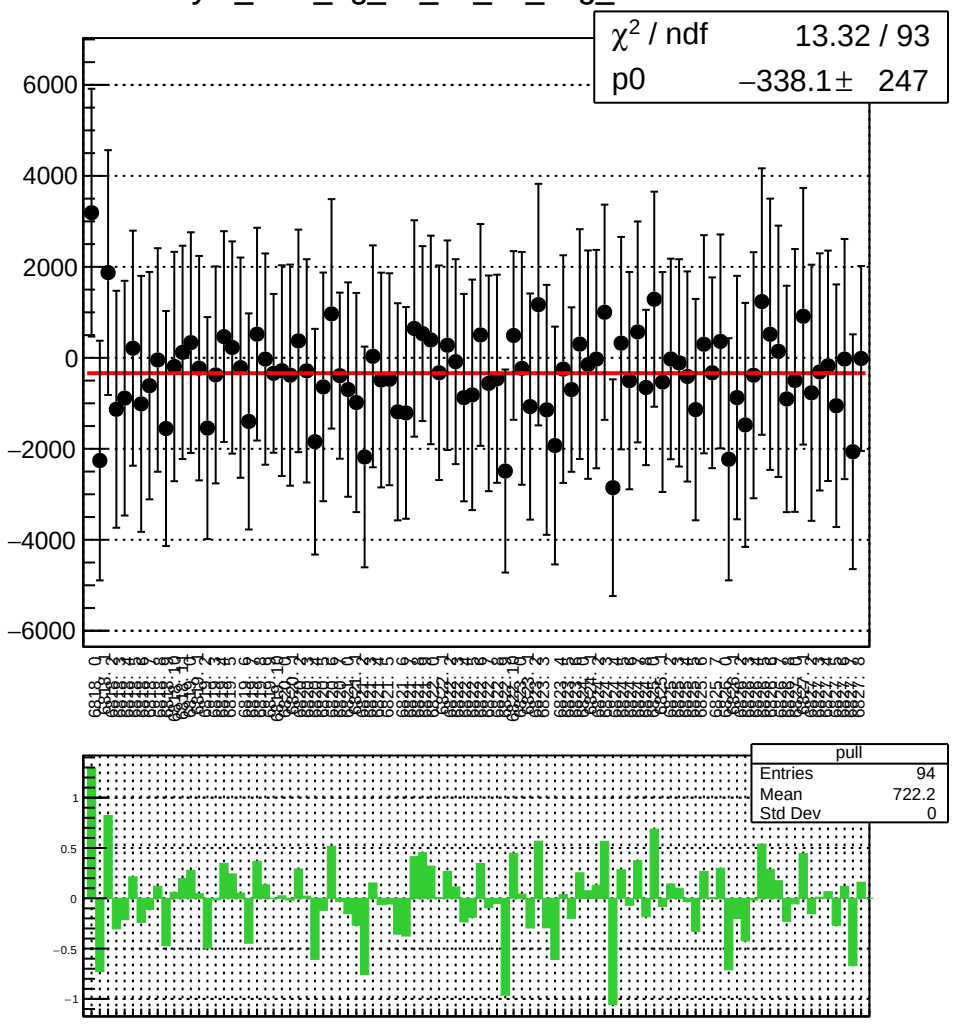

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 13.17 / 93
p0 −315.1 ± 246.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1003
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0007513
Std Dev 0.3744
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

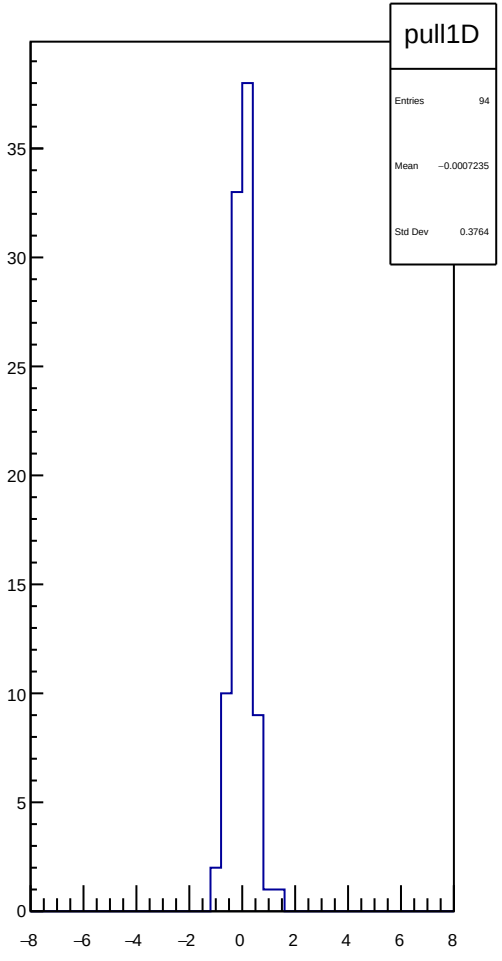

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 7198 / 93
p0 233 ± 0.1742
290
280
270
260
250
240
230
220
210
200

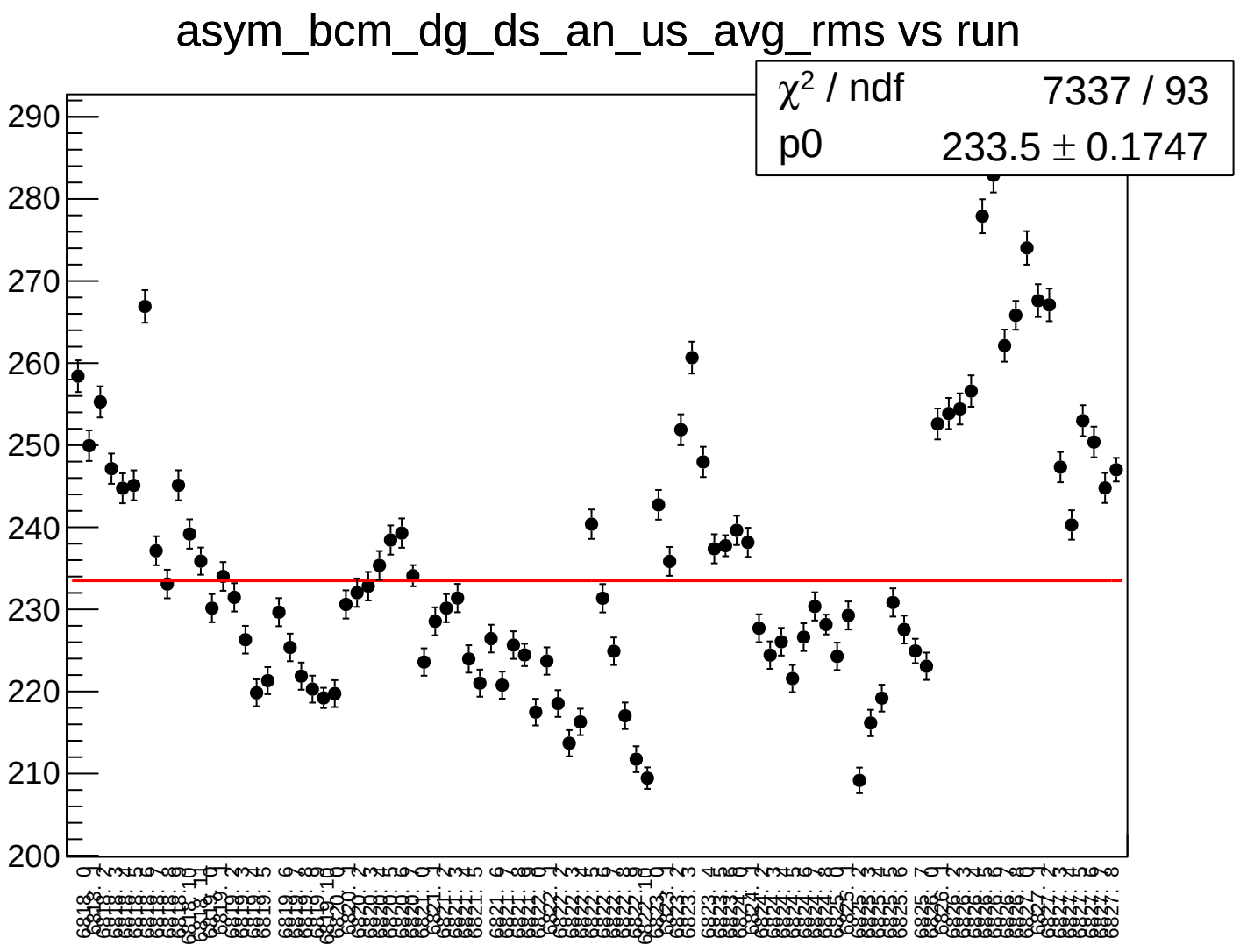

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 60.59 / 93
p0 17.82 ± 22.92
pull
Entries 94
Mean −40
Std Dev 51.47

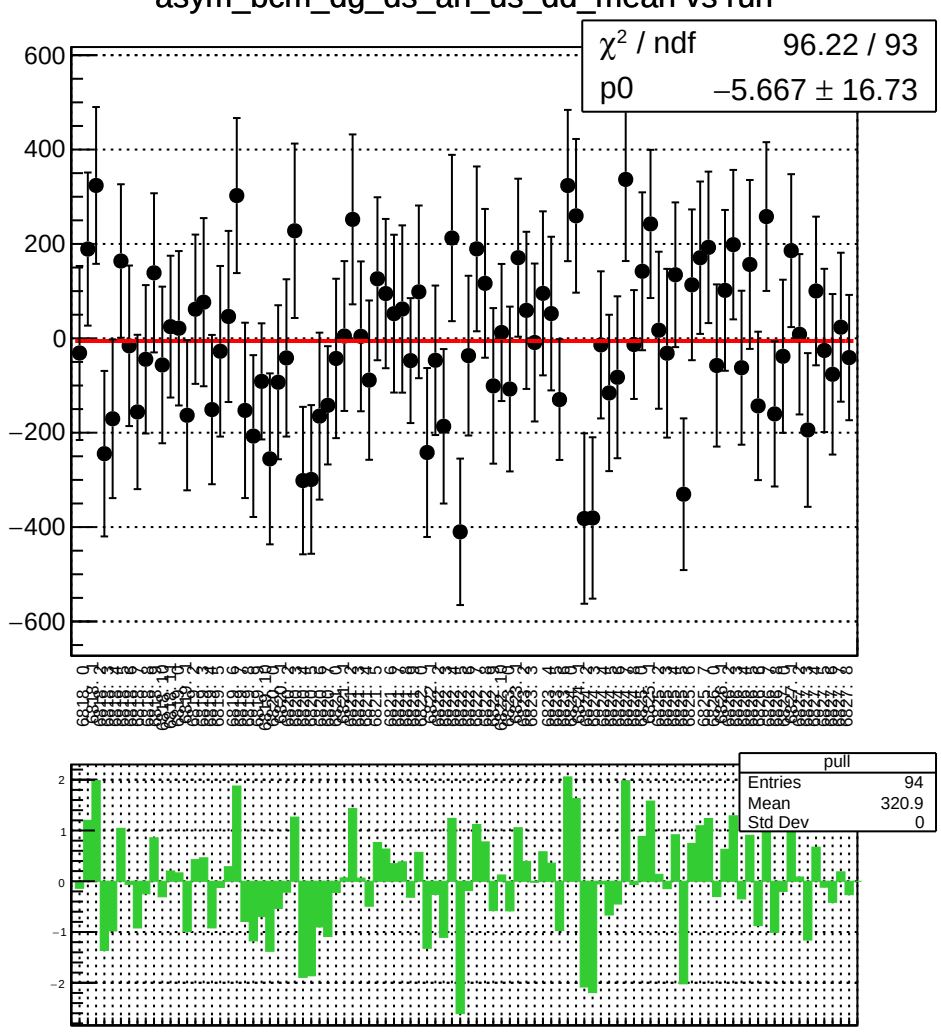

pull1D
Entries 94
Mean 0.005578
Std Dev 0.8028

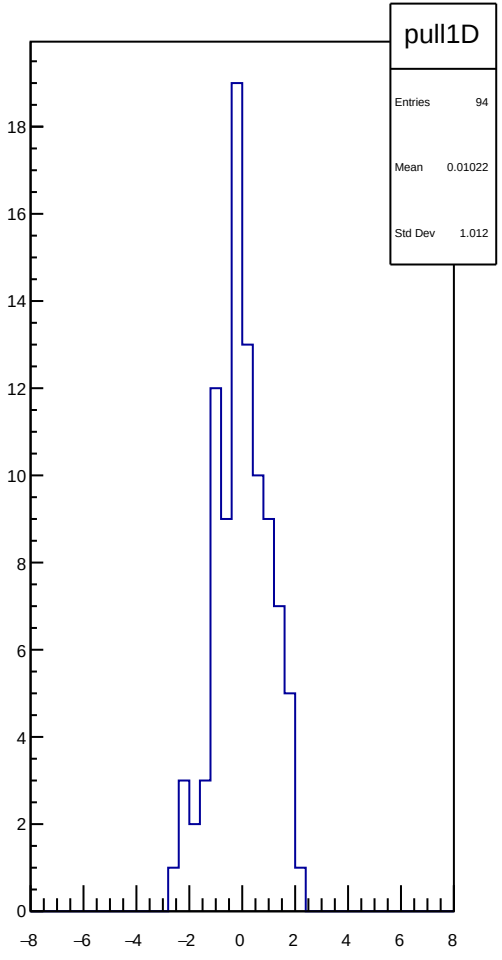

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 272.8 / 93
p0 21.71 ± 0.01621
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8

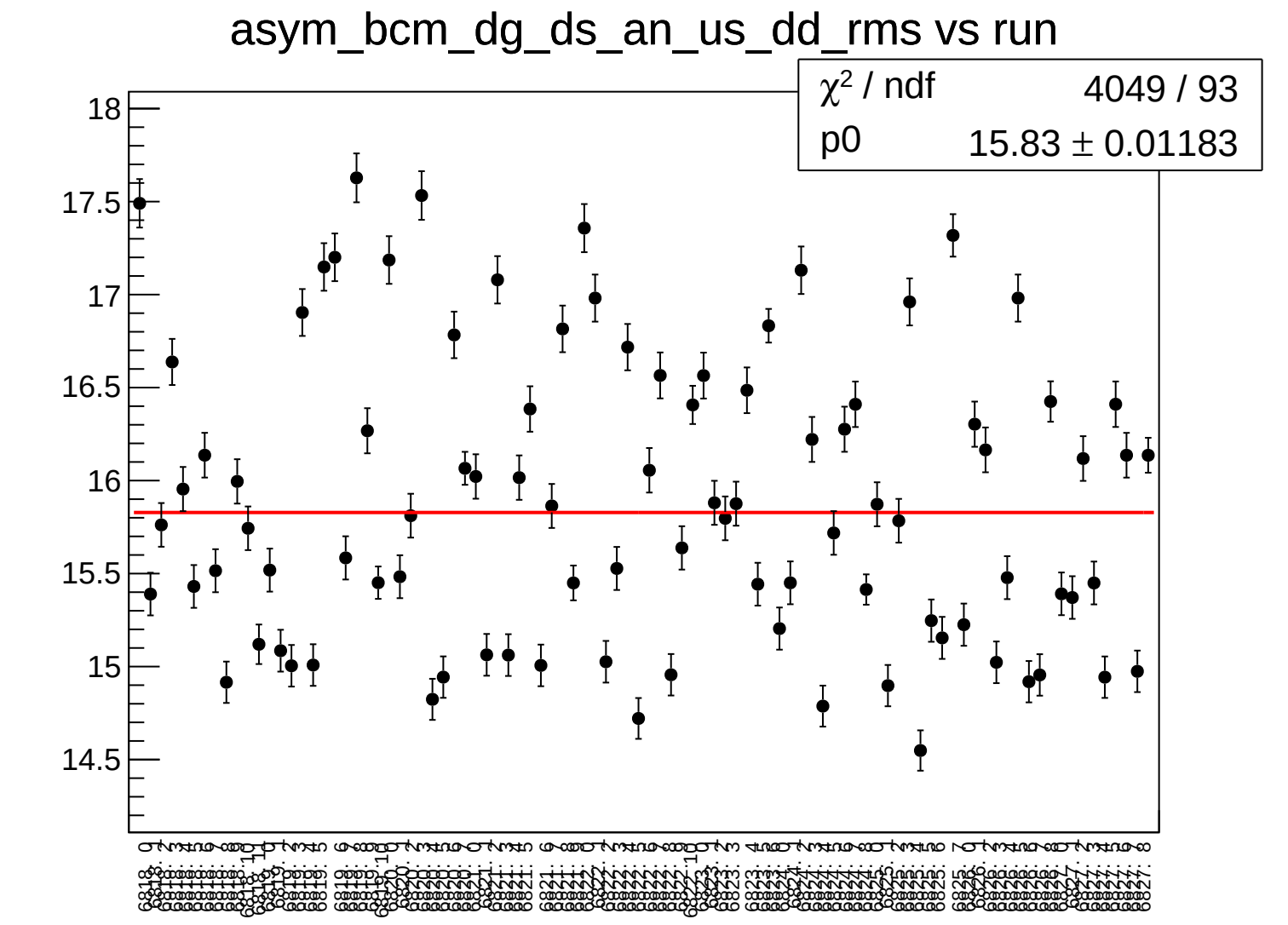

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 13.32 / 93
p0 −338.1± 247
pull
Entries 94
Mean 722.2
Std Dev 0

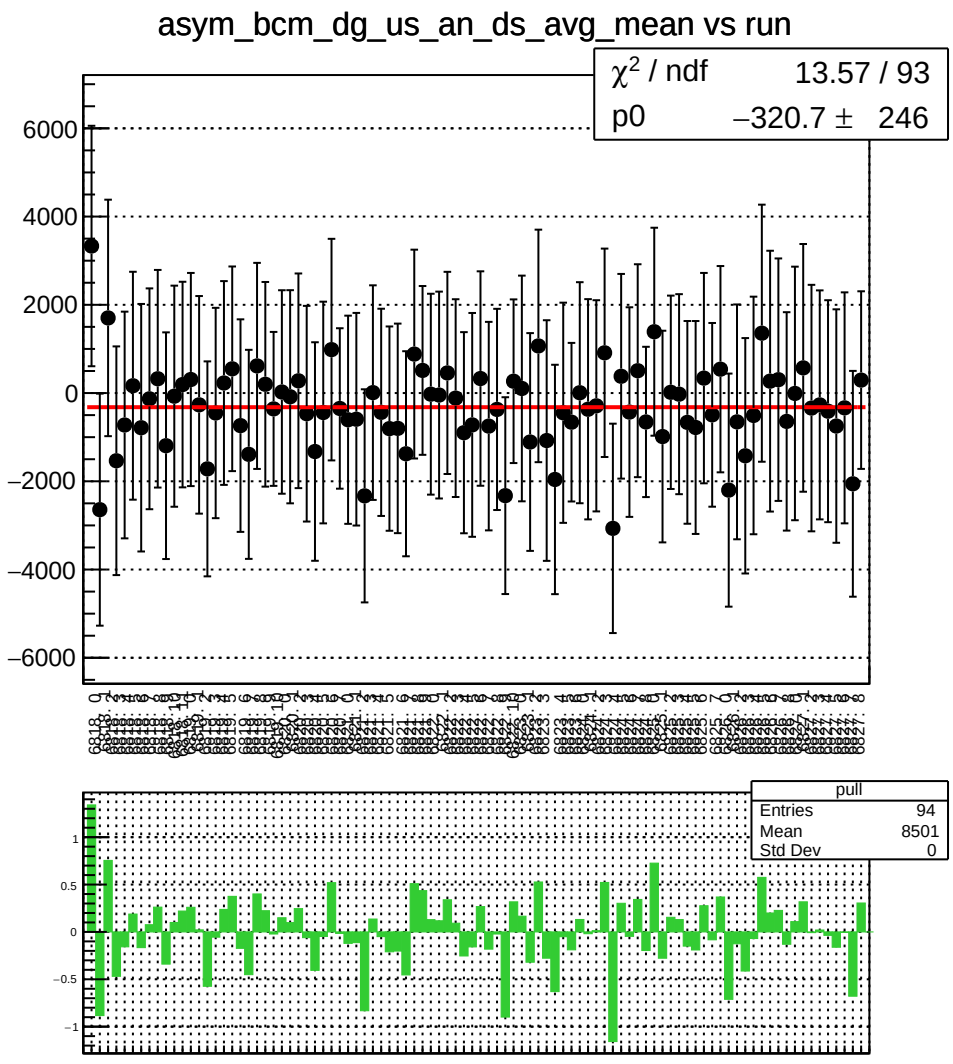

pull1D
Entries 94
Mean −0.0007235
Std Dev 0.3764

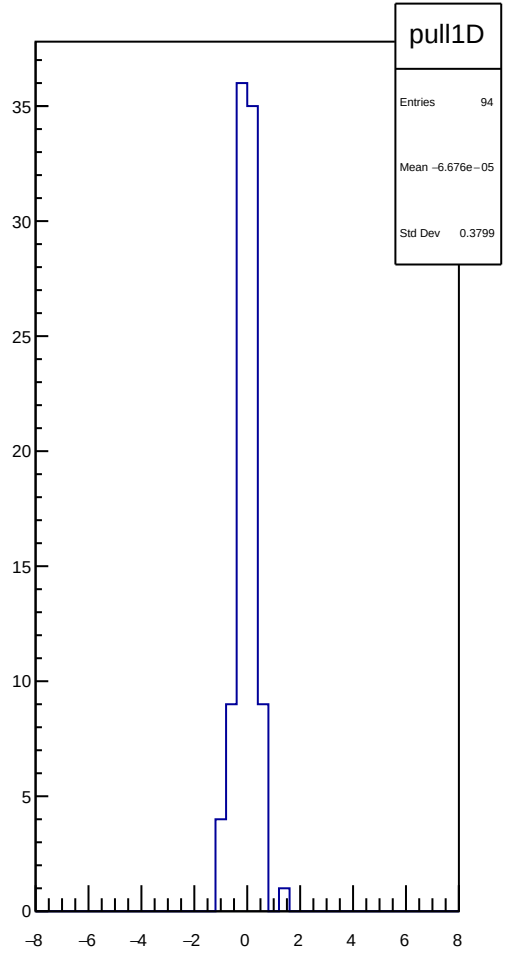

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 7337 / 93
p0 233.5 ± 0.1747
290
280
270
260
250
240
230
220
210
200

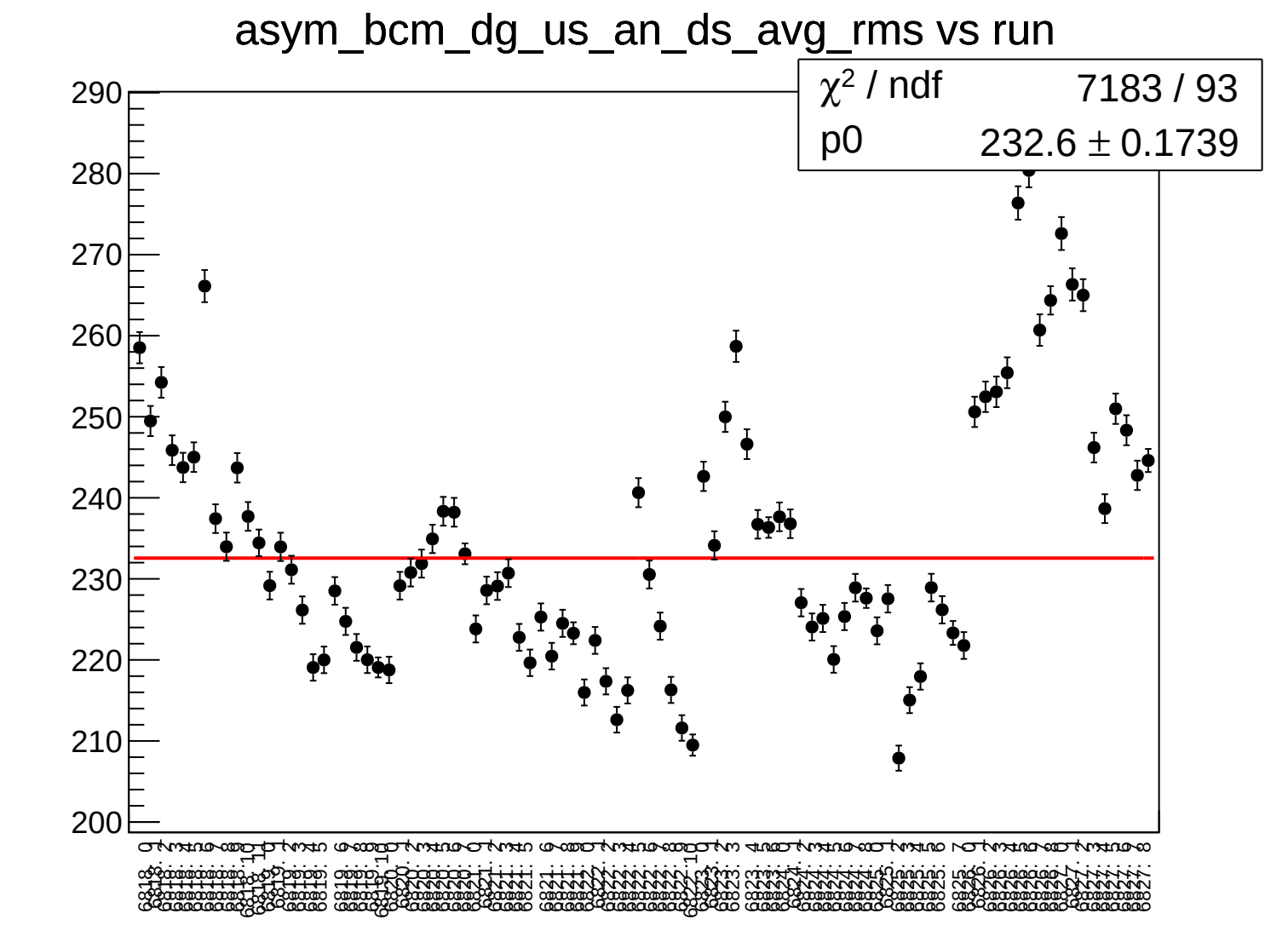

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 96.22 / 93
p0 −5.667 ± 16.73
pull
Entries 94
Mean 320.9
Std Dev 0

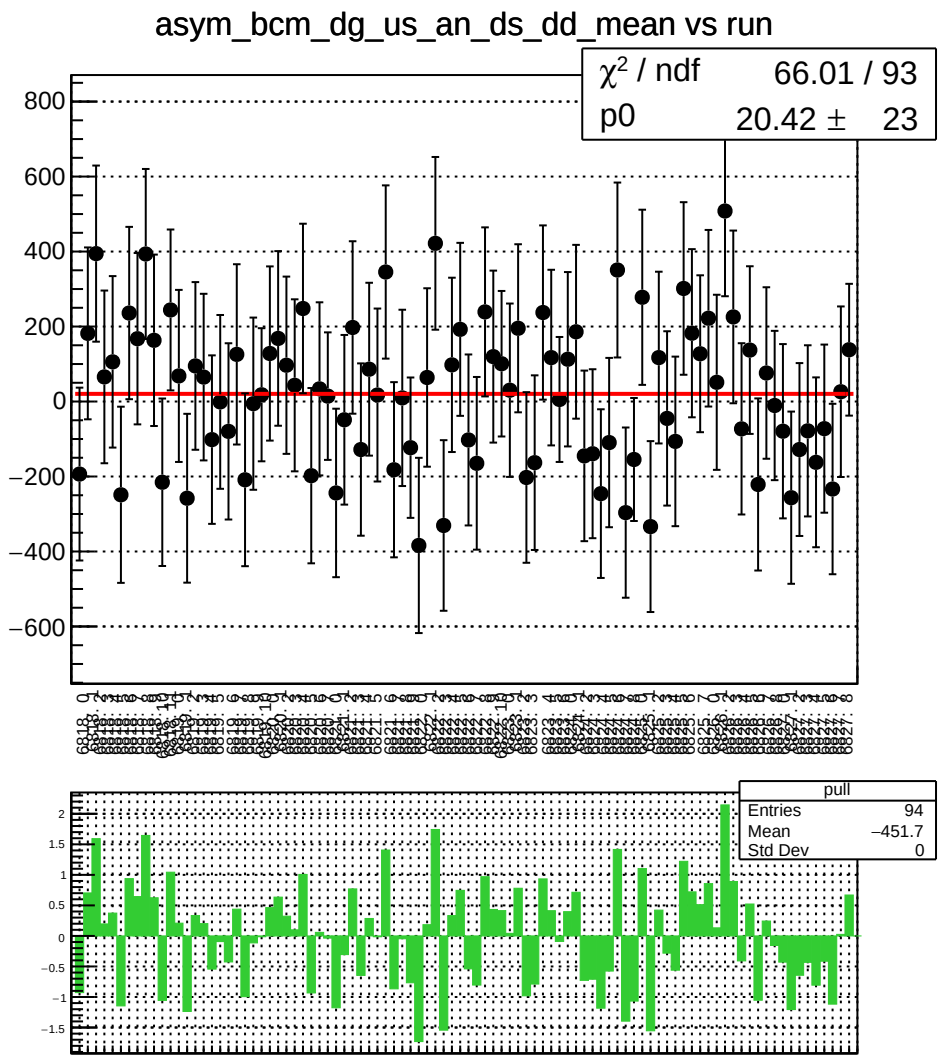

pull1D
Entries 94
Mean 0.01022
Std Dev 1.012

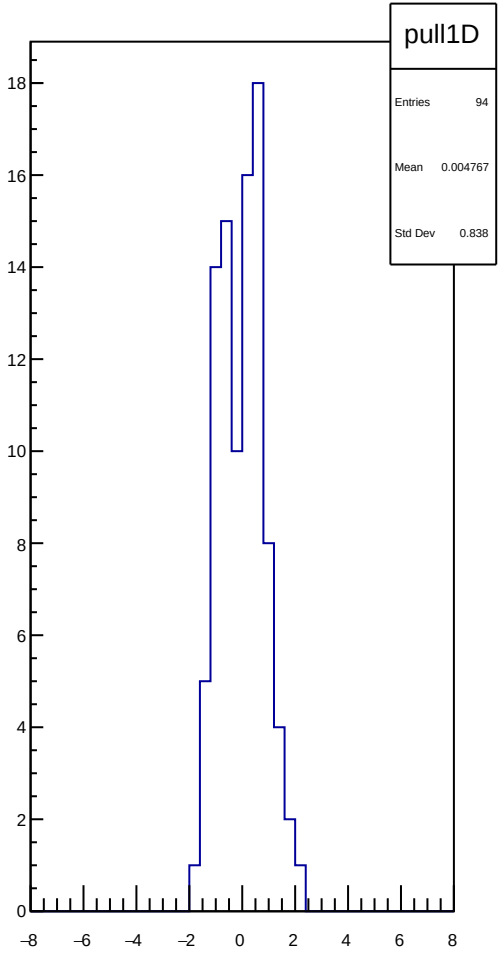

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 4049 / 93
p0 15.83 ± 0.01183
18
17.5
17
16.5
16
15.5
15
14.5

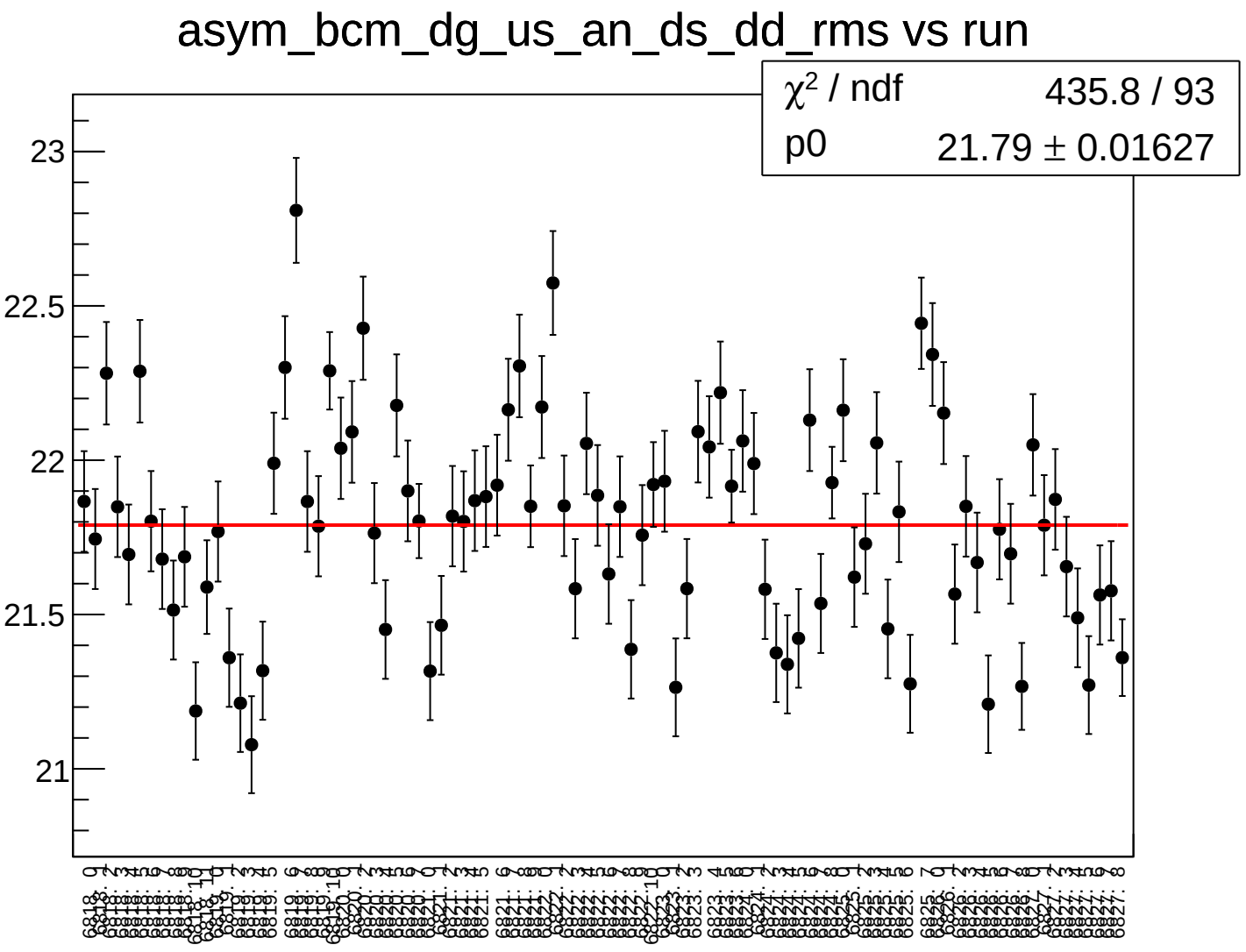

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 13.57 / 93
p0 −320.7 ± 246
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 8501
Std Dev 0
1
0.5
0
−0.5
−1

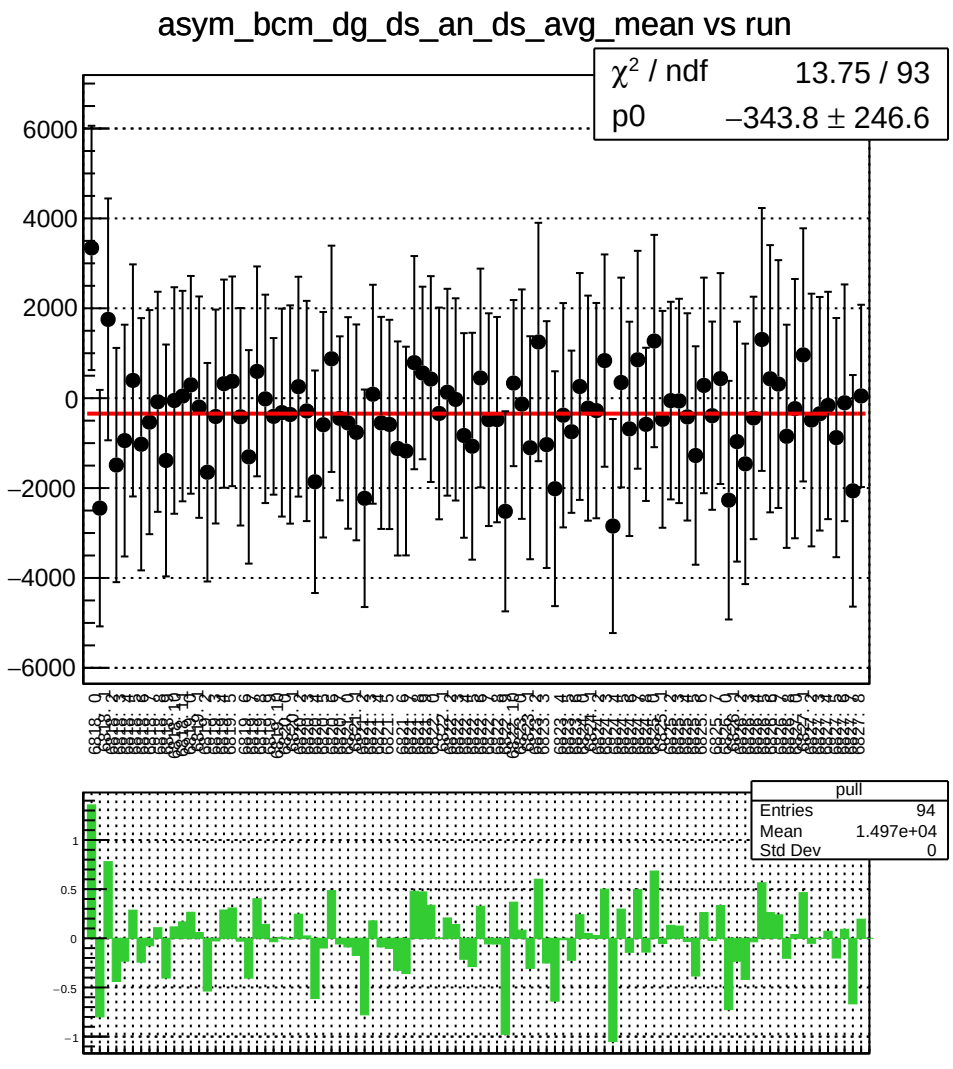

pull1D
Entries 94
Mean −6.676e−05
Std Dev 0.3799
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

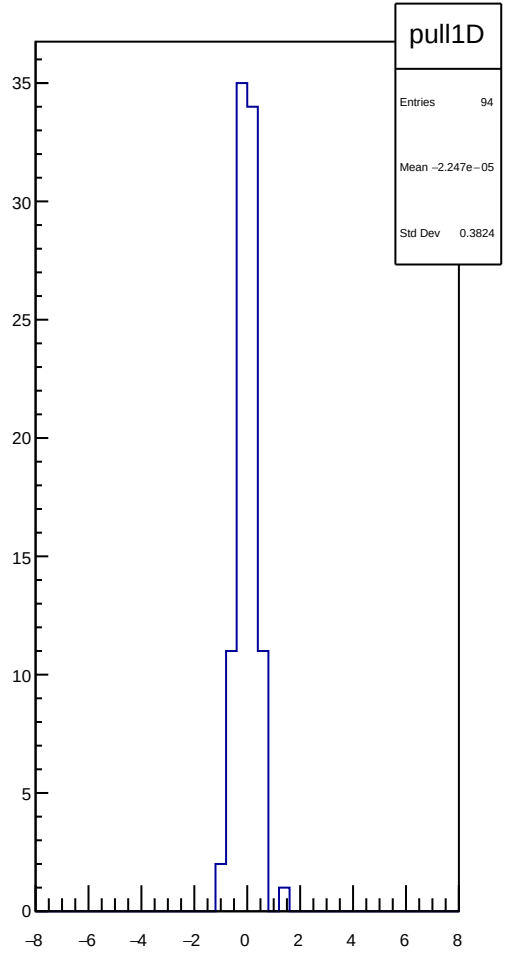

asym_bcm_dg_us_an_ds_avg_rms vs run
χ^2 / ndf 7183 / 93
p0 232.6 ± 0.1739
290
280
270
260
250
240
230
220
210
200

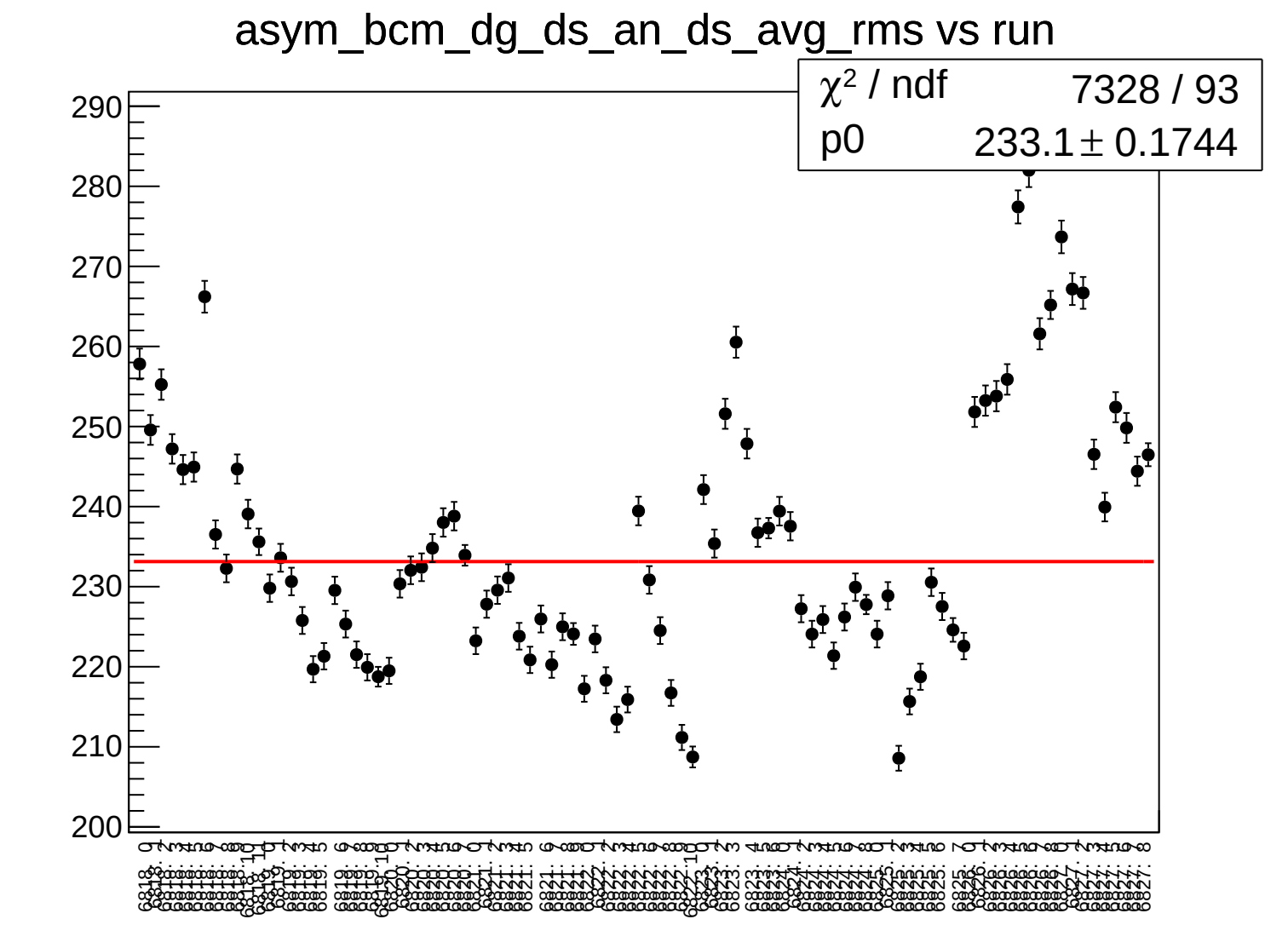

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 66.01 / 93
p0 20.42 ± 23
pull
Entries 94
Mean −451.7
Std Dev 0

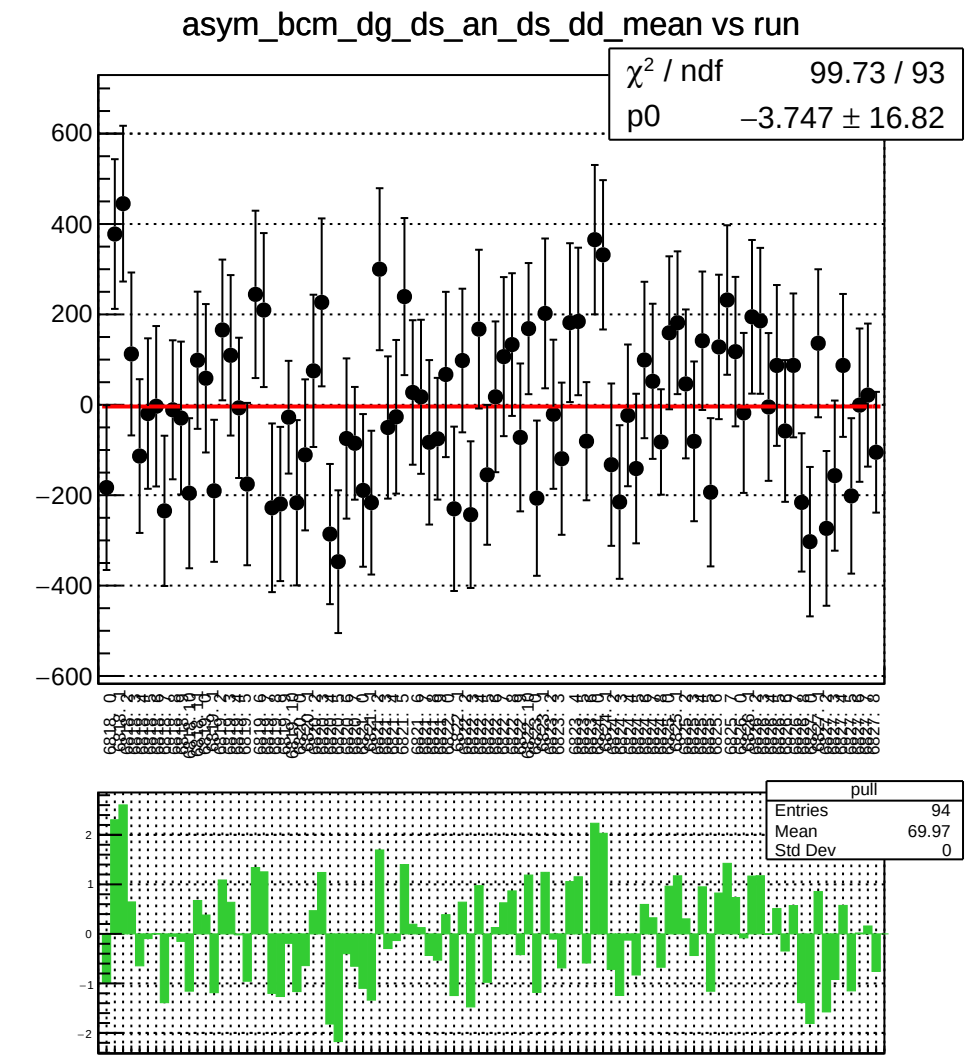

pull1D
Entries 94
Mean 0.004767
Std Dev 0.838

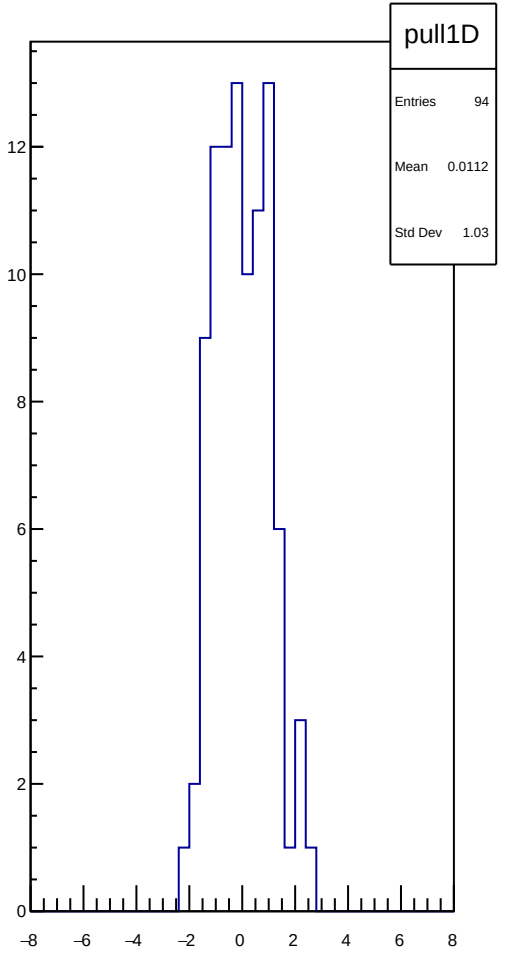

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 435.8 / 93
p0 21.79 ± 0.01627
23
22.5
22
21.5
21

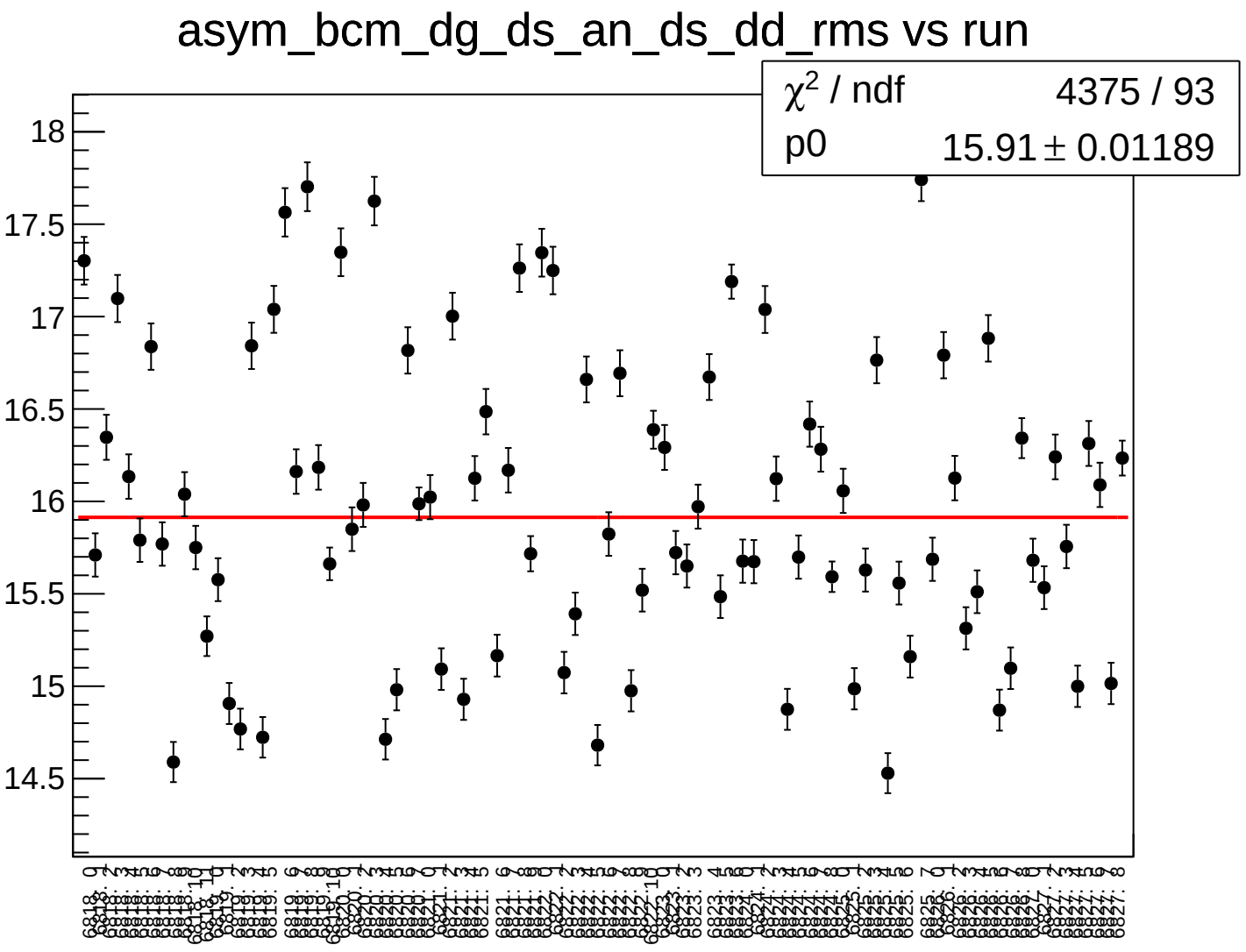

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 13.75 / 93
p0 −343.8 ± 246.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 1.497e+04
Std Dev 0
1
0.5
0
−0.5
−1

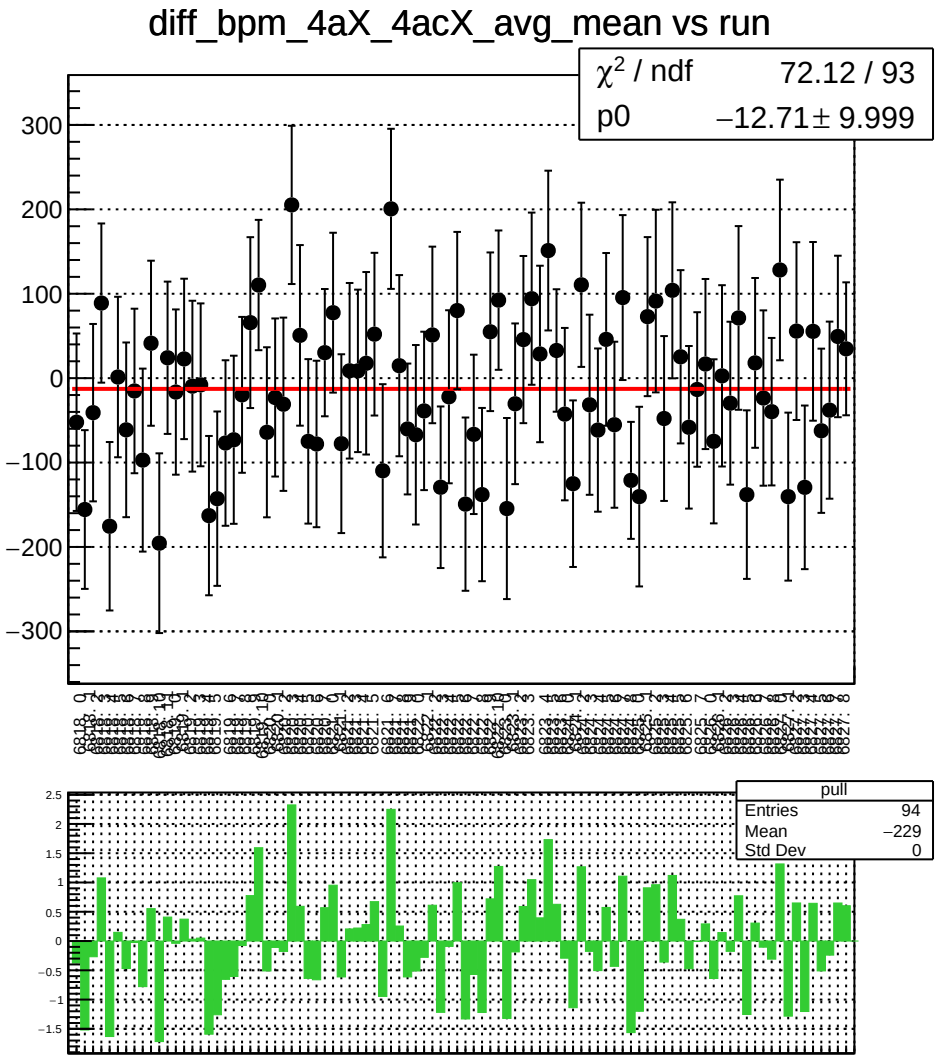

pull1D
Entries 94
Mean −2.247e−05
Std Dev 0.3824
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

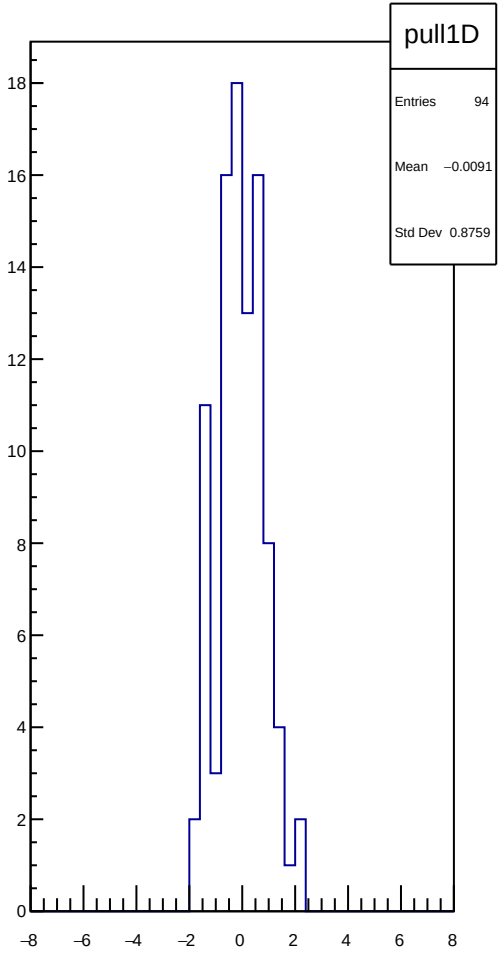

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 7328 / 93
p0 233.1 ± 0.1744
290
280
270
260
250
240
230
220
210
200

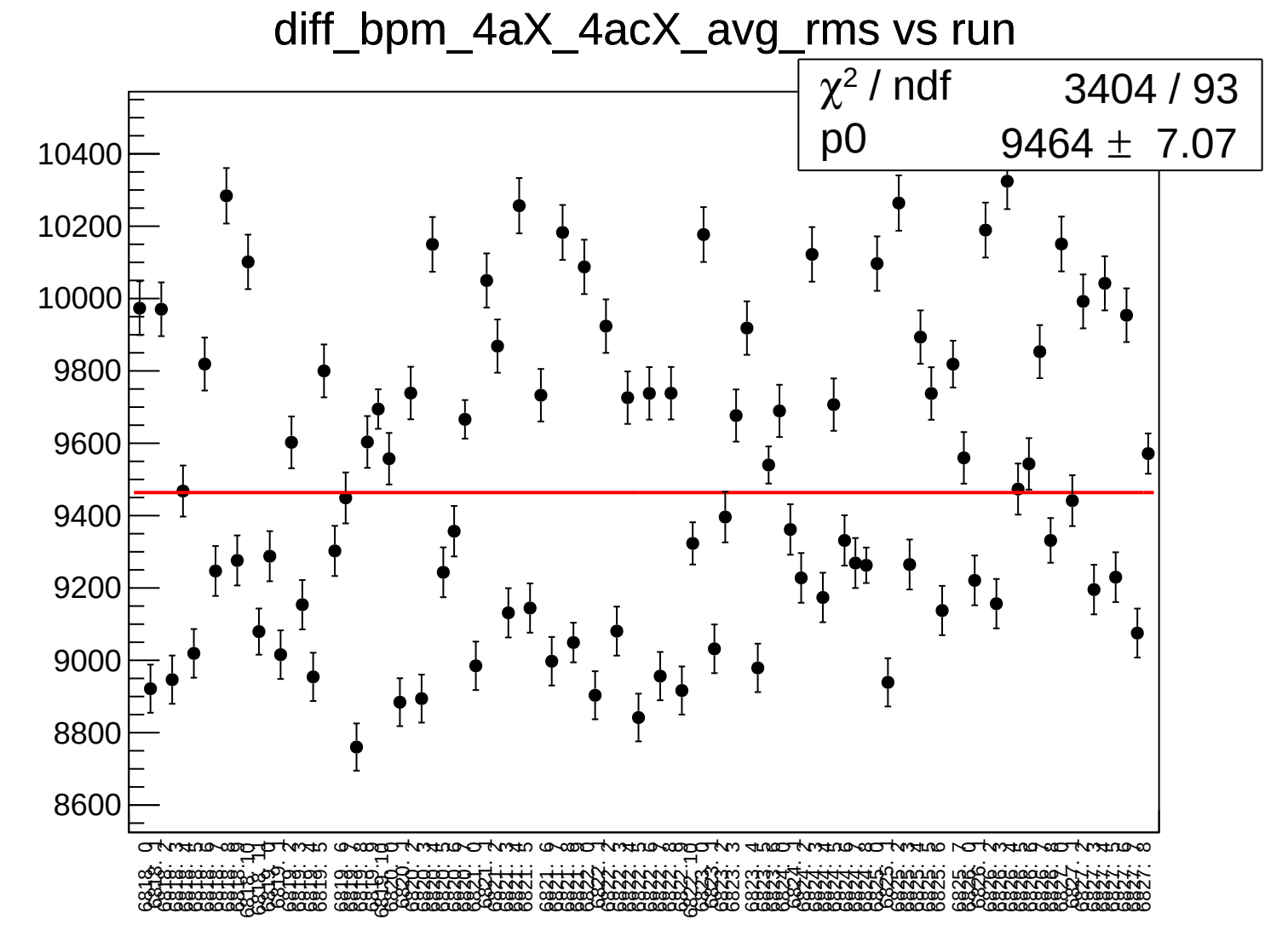

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 99.73 / 93
p0 −3.747 ± 16.82
600
400
200
0
−200
−400
−600
pull
Entries 94
Mean 69.97
Std Dev 0
2
1
0
−1
−2

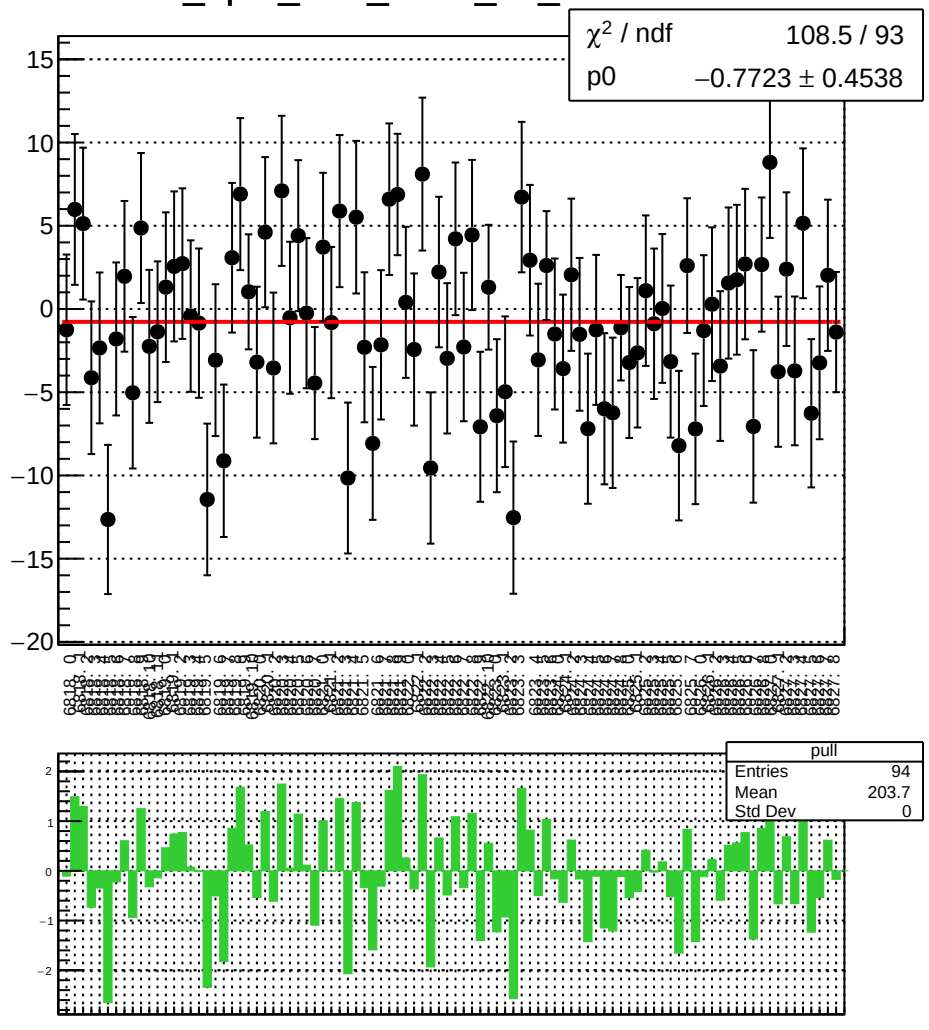

pull1D
Entries 94
Mean 0.0112
Std Dev 1.03
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

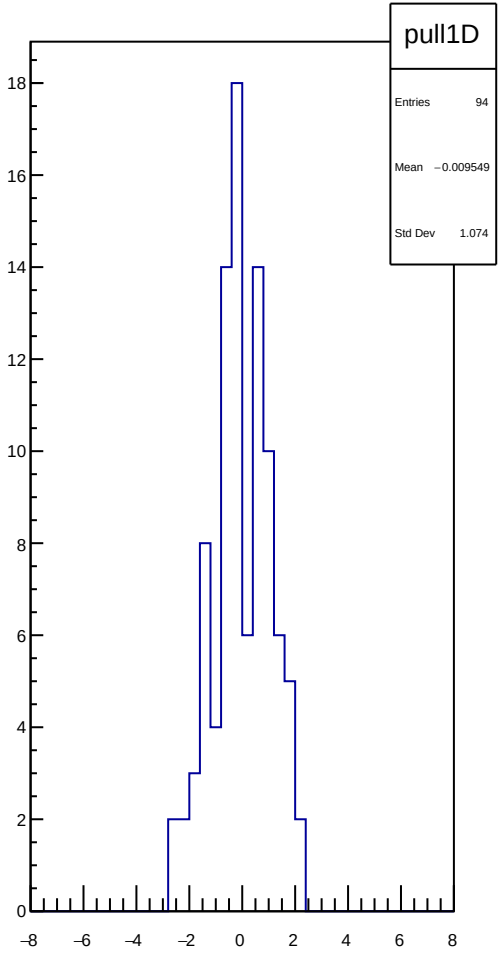

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 4375 / 93
p0 15.91 ± 0.01189
18
17.5
17
16.5
16
15.5
15
14.5

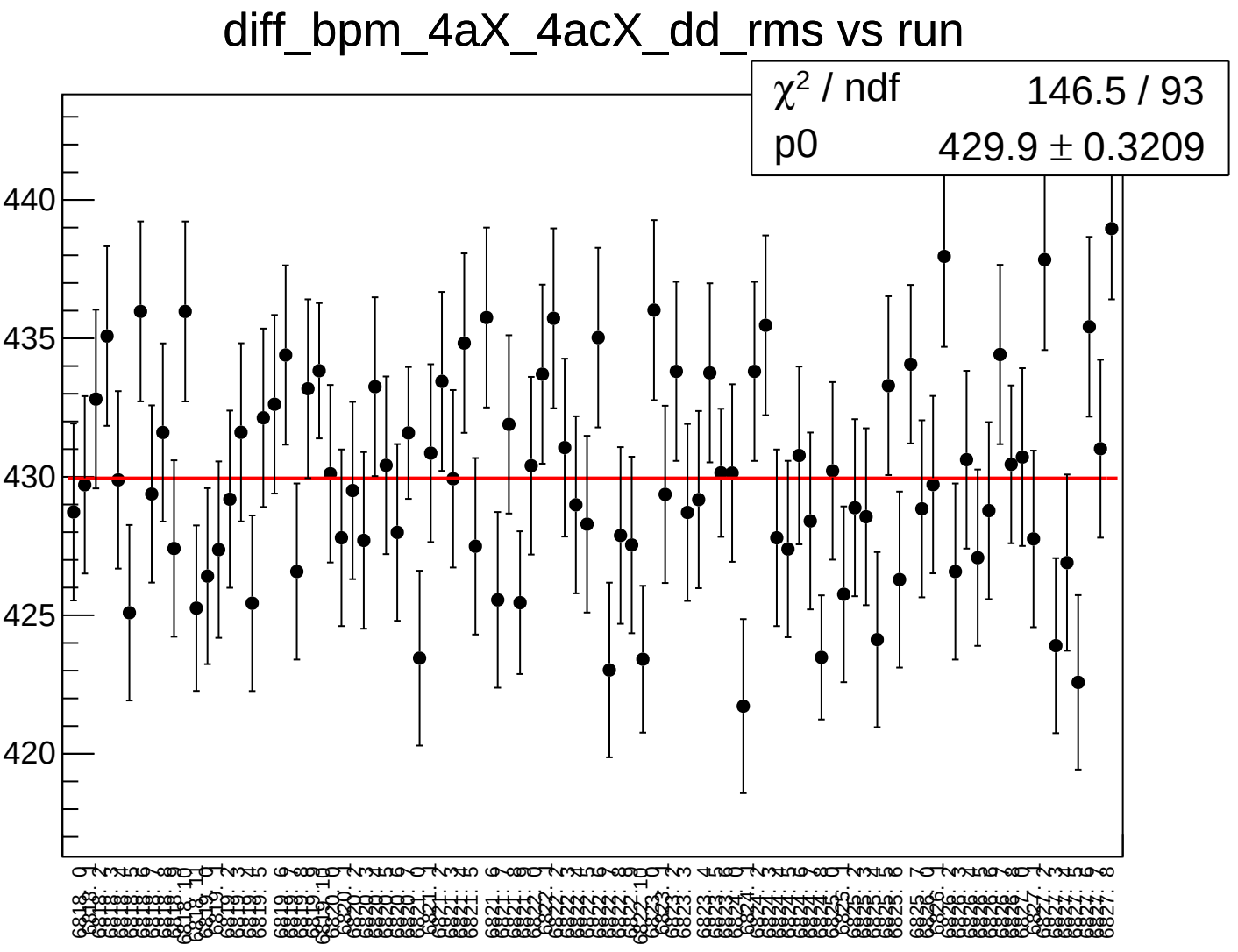

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 72.12 / 93
p0 −12.71± 9.999
pull
Entries 94
Mean −229
Std Dev 0

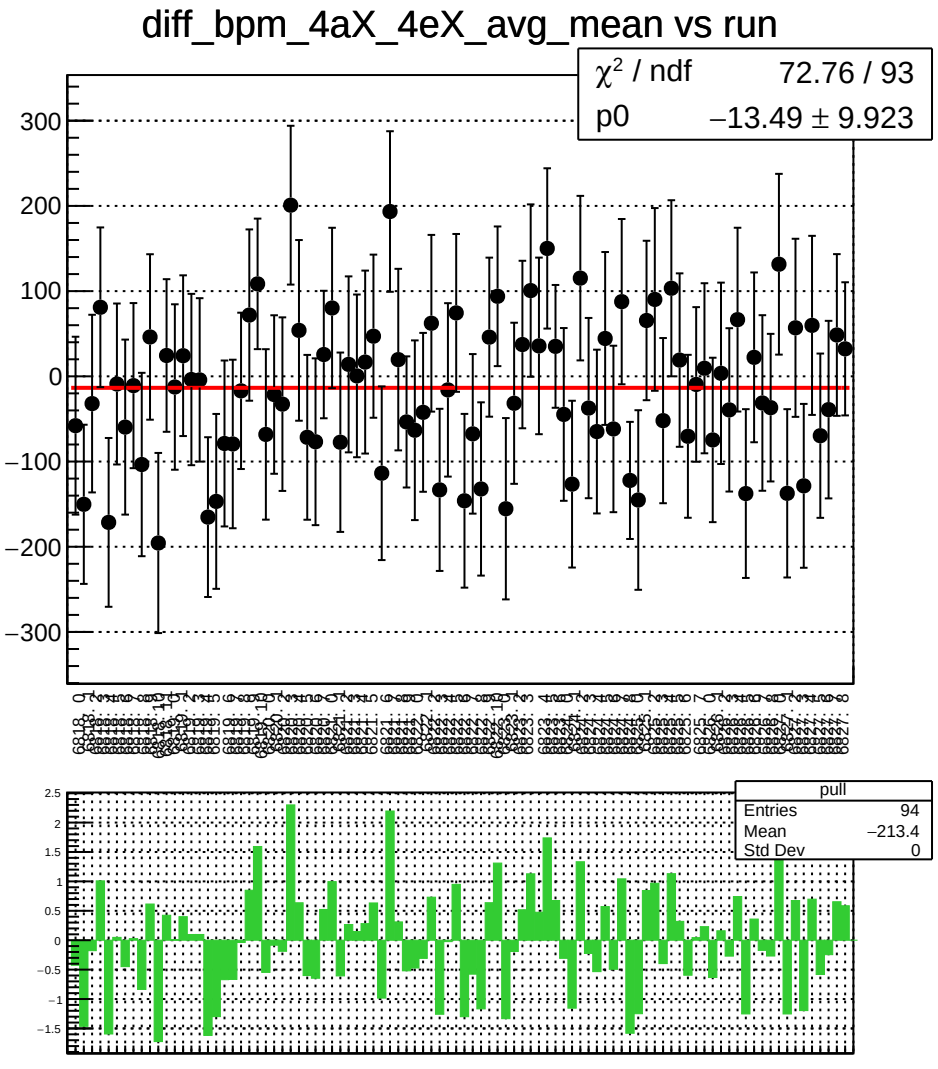

pull1D
Entries 94
Mean −0.0091
Std Dev 0.8759

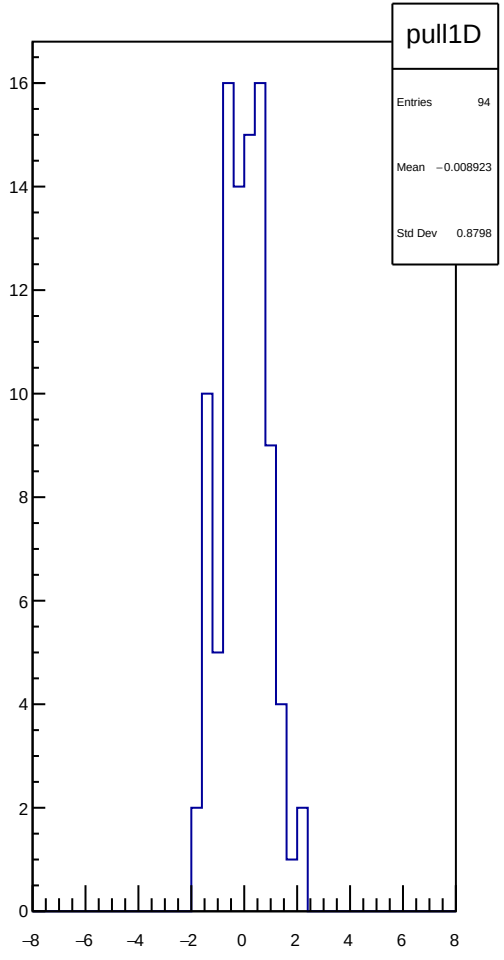

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 3404 / 93
p0 9464 ± 7.07
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

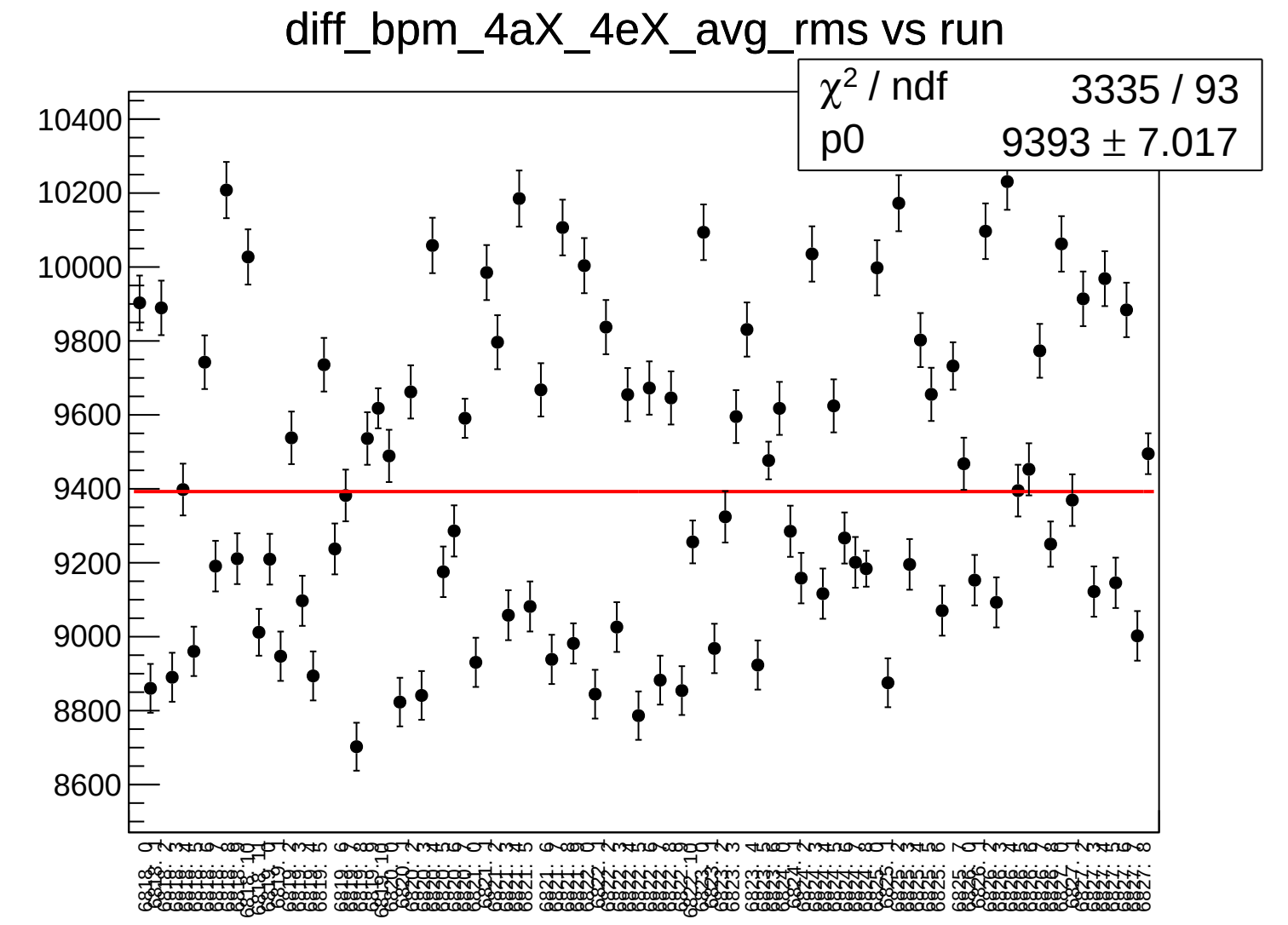

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 108.5 / 93
p0 −0.7723 ± 0.4538
pull
Entries 94
Mean 203.7
Std Dev 0

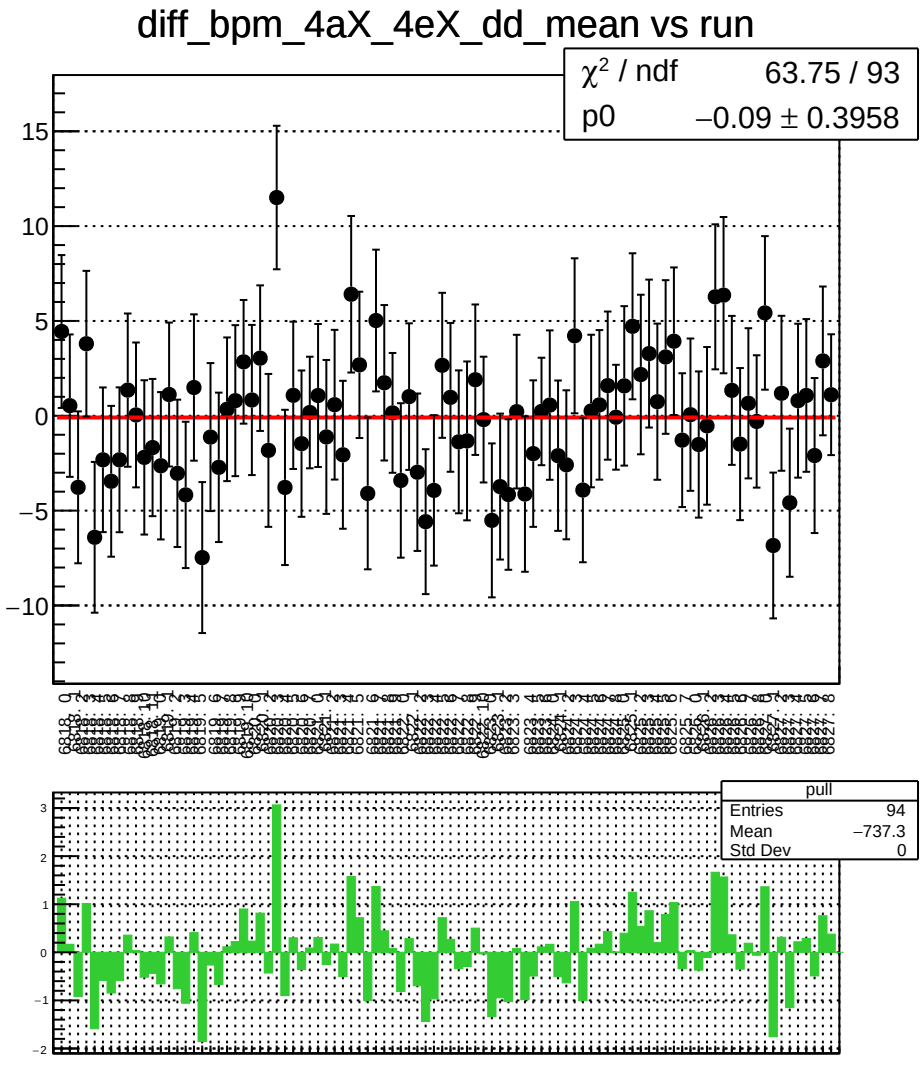

pull1D
Entries 94
Mean −0.009549
Std Dev 1.074

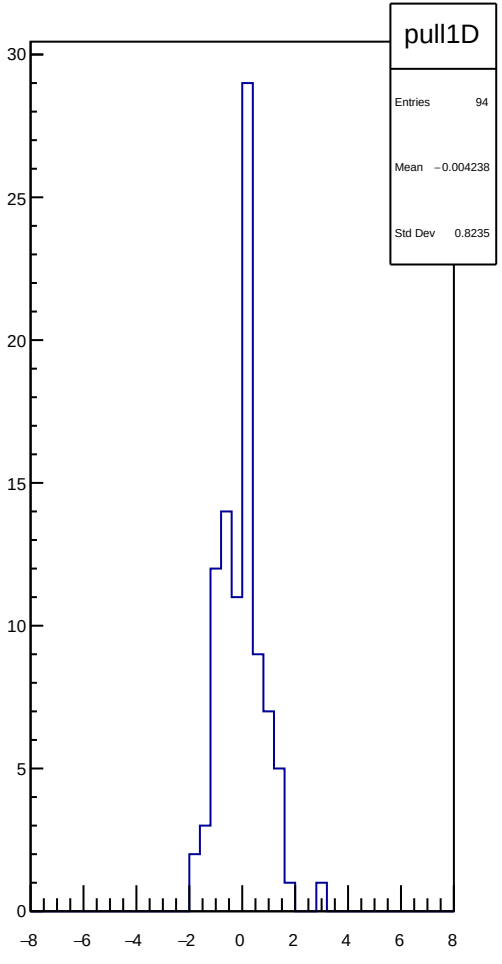

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 146.5 / 93
p0 429.9 ± 0.3209
440
435
430
425
420

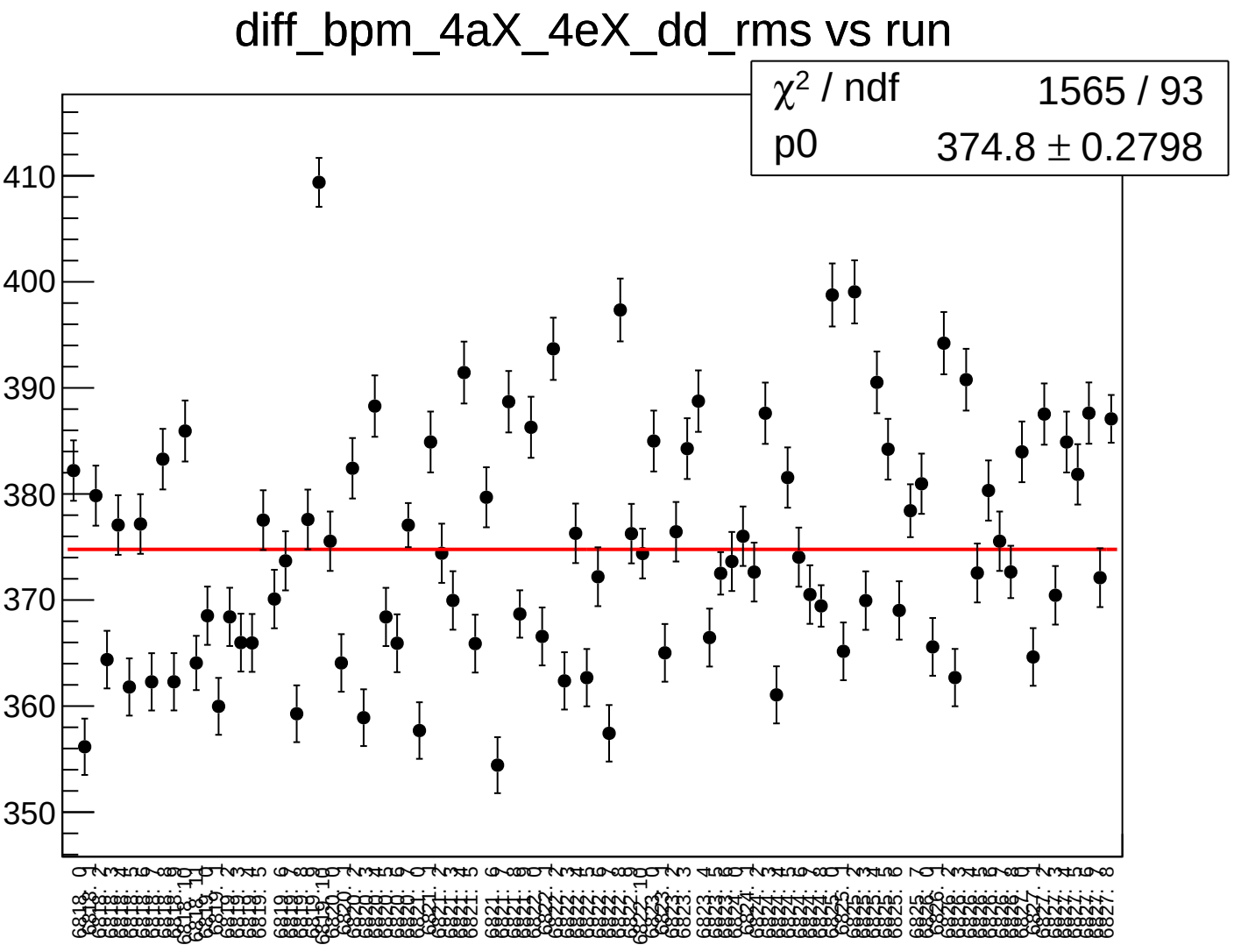

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 72.76 / 93
p0 −13.49 ± 9.923
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −213.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

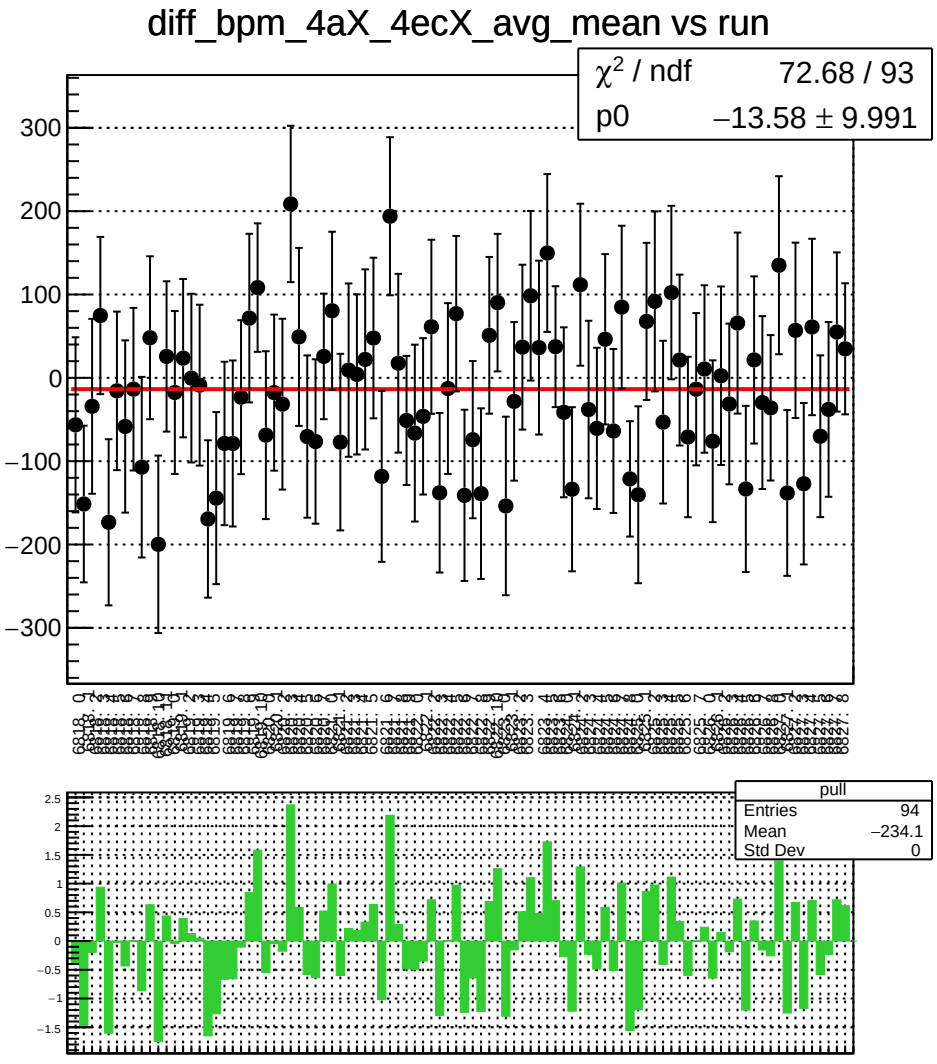

pull1D
Entries 94
Mean −0.008923
Std Dev 0.8798
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

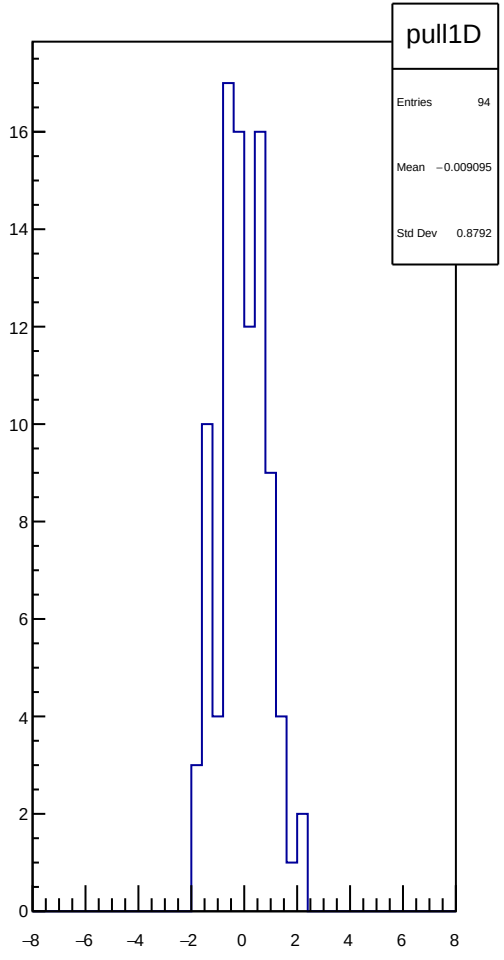

diff_bpm_4aX_4eX_avg_rms vs run
χ^2 / ndf 3335 / 93
p0 9393 ± 7.017
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

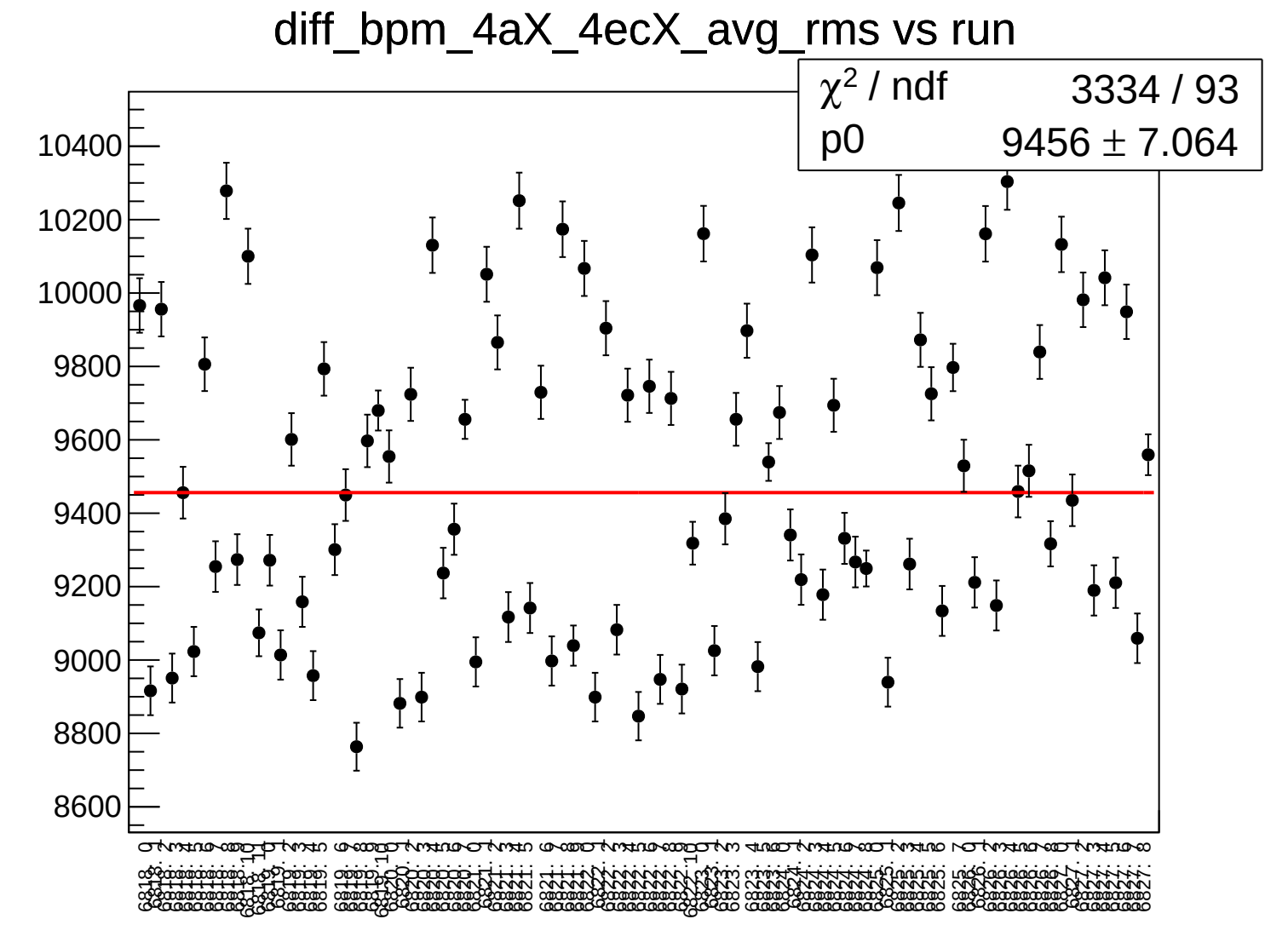

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 63.75 / 93
p0 −0.09 ± 0.3958
pull
Entries 94
Mean −737.3
Std Dev 0

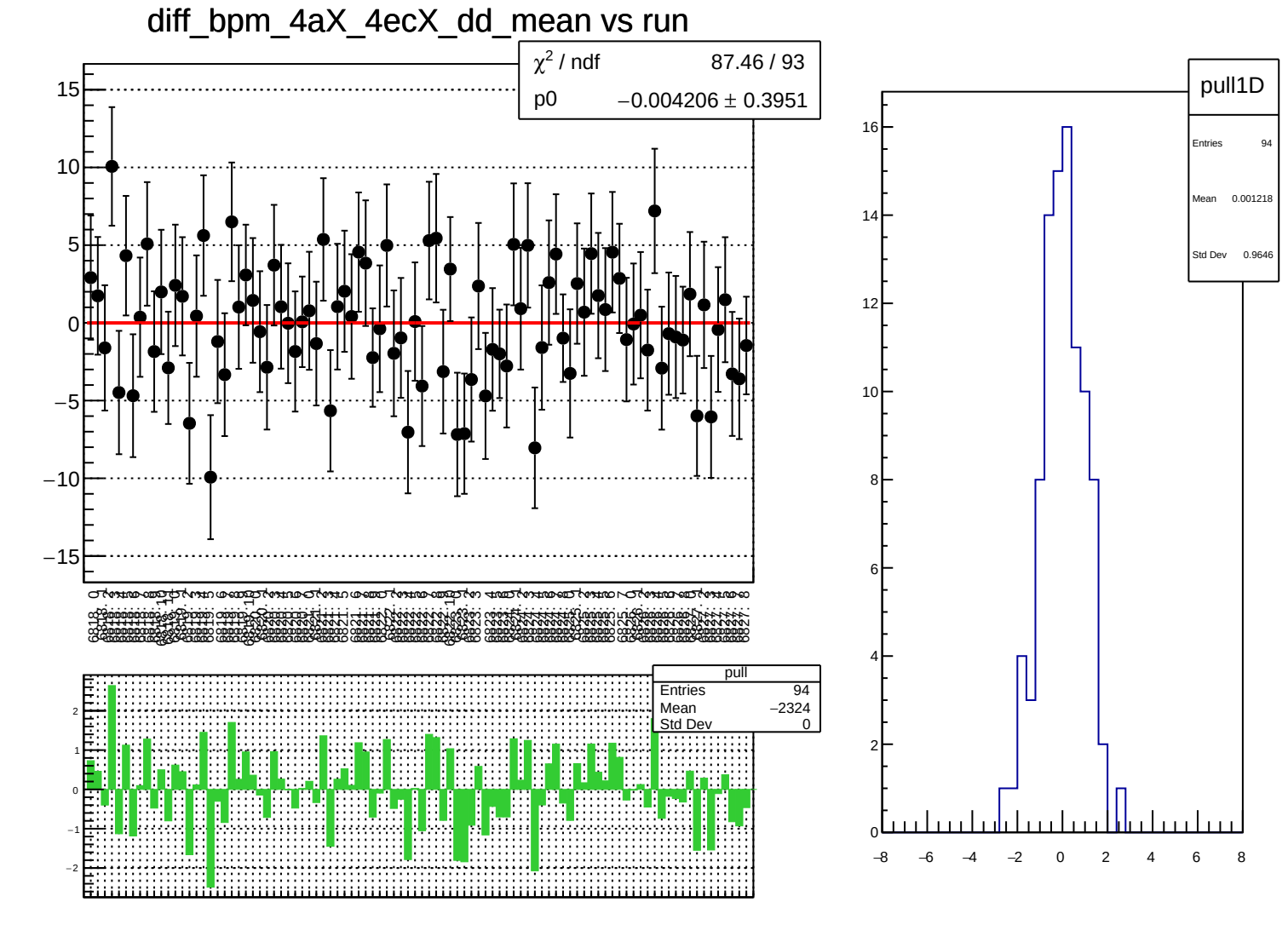

pull1D
Entries 94
Mean −0.004238
Std Dev 0.8235

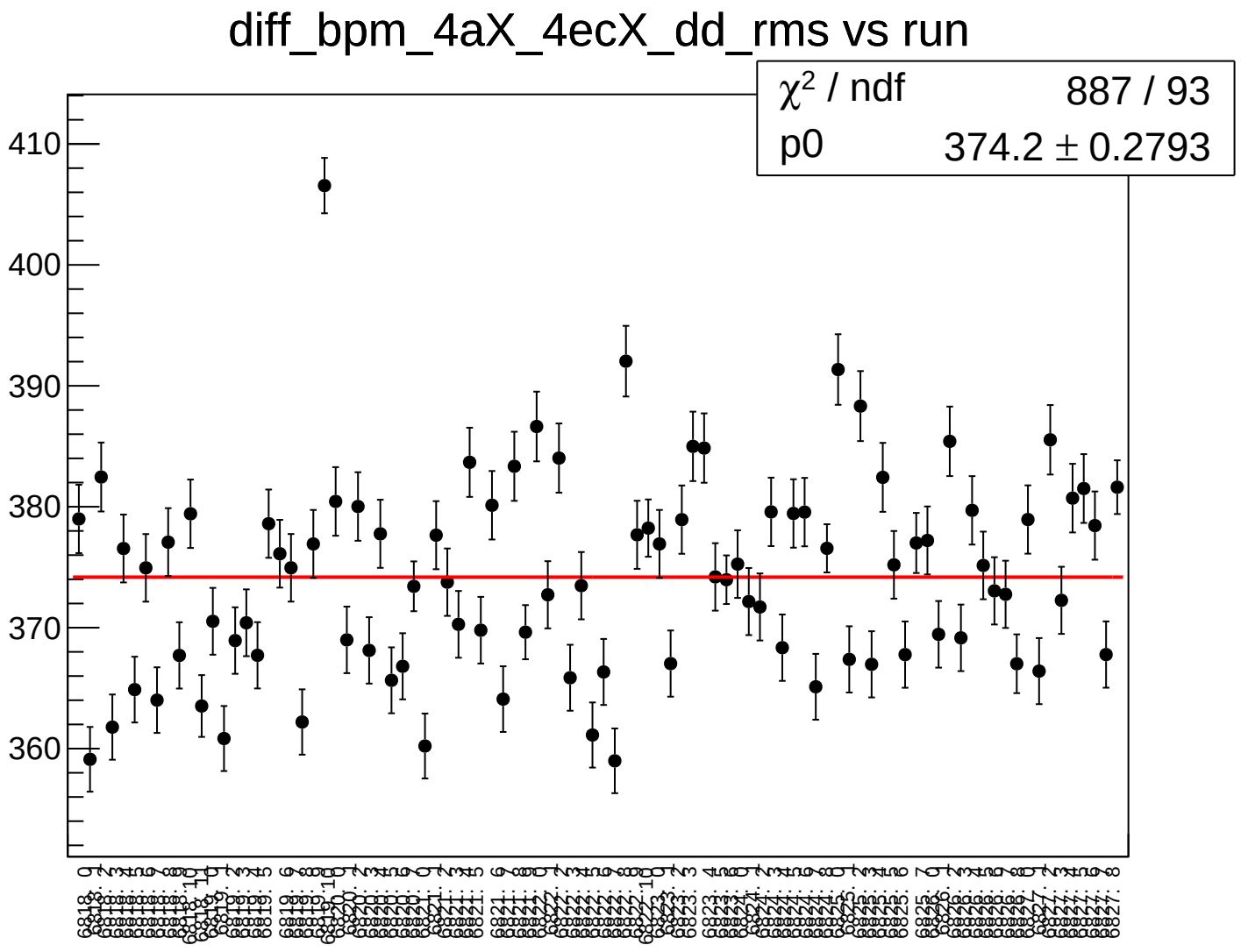

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1565 / 93
p0 374.8 ± 0.2798
410
400
390
380
370
360
350

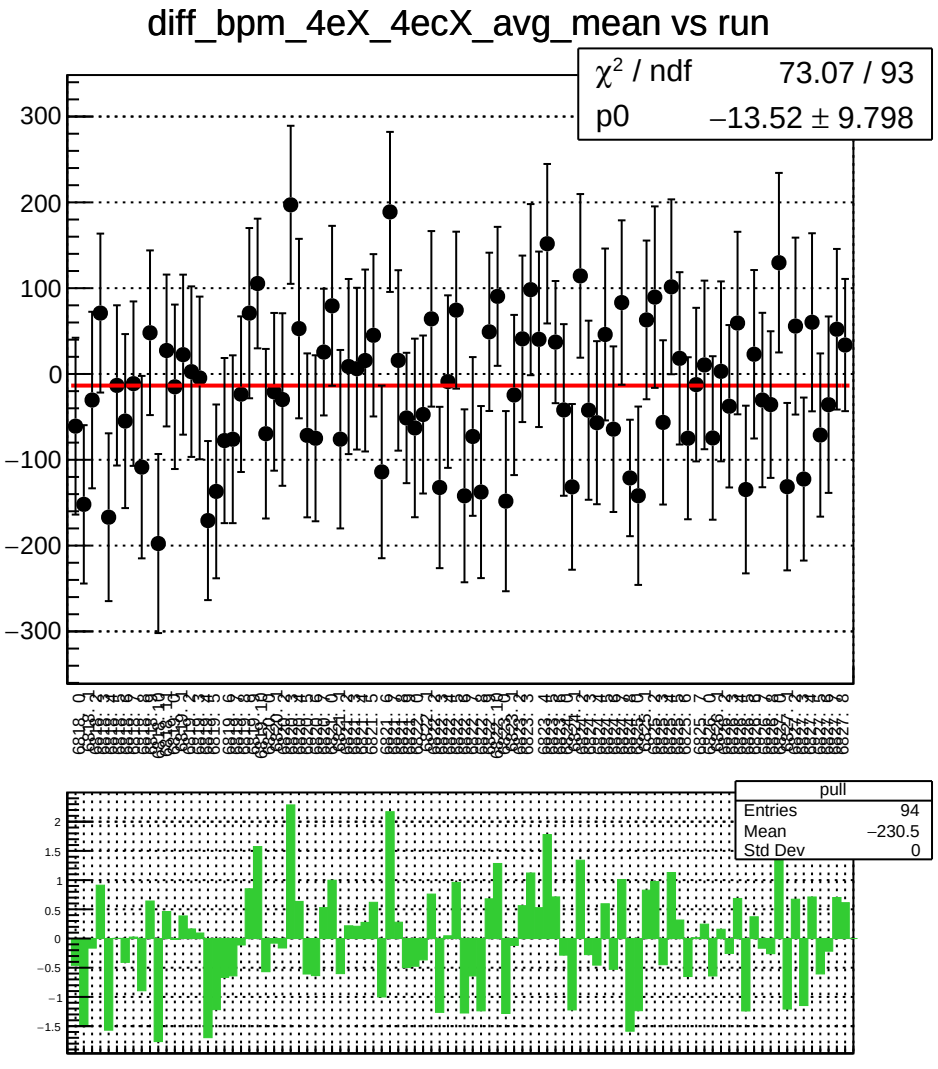

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 72.68 / 93
p0 −13.58 ± 9.991
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −234.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

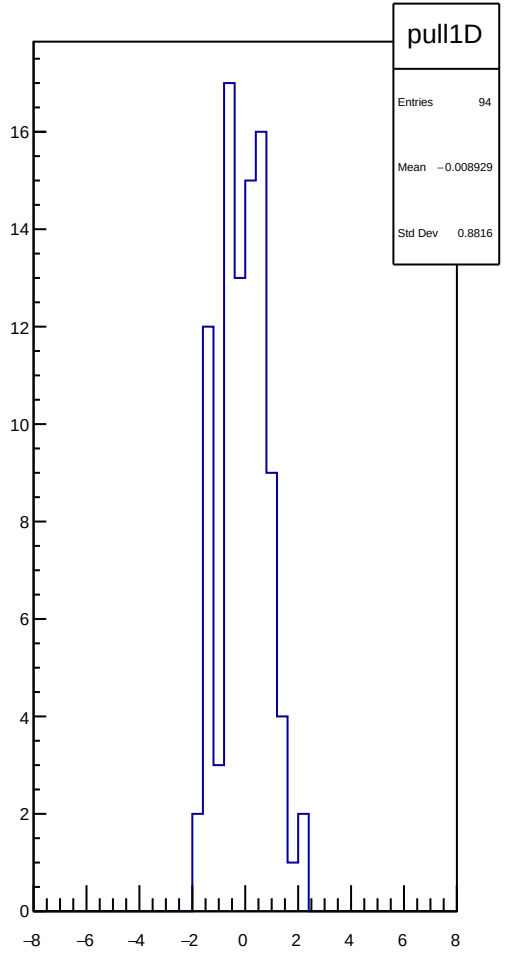

pull1D
Entries 94
Mean −0.009095
Std Dev 0.8792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

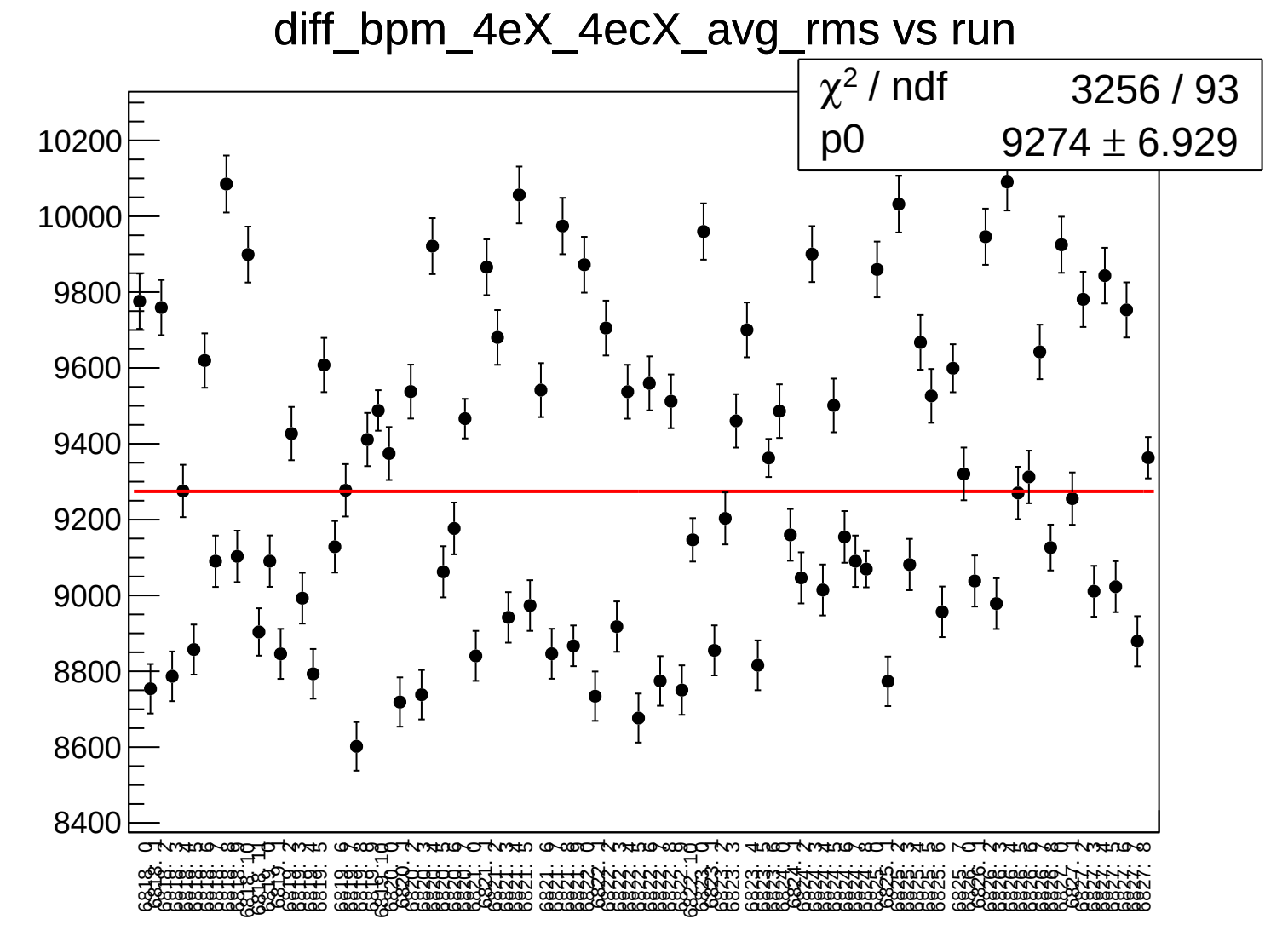

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 3334 / 93
p0 9456 ± 7.064
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

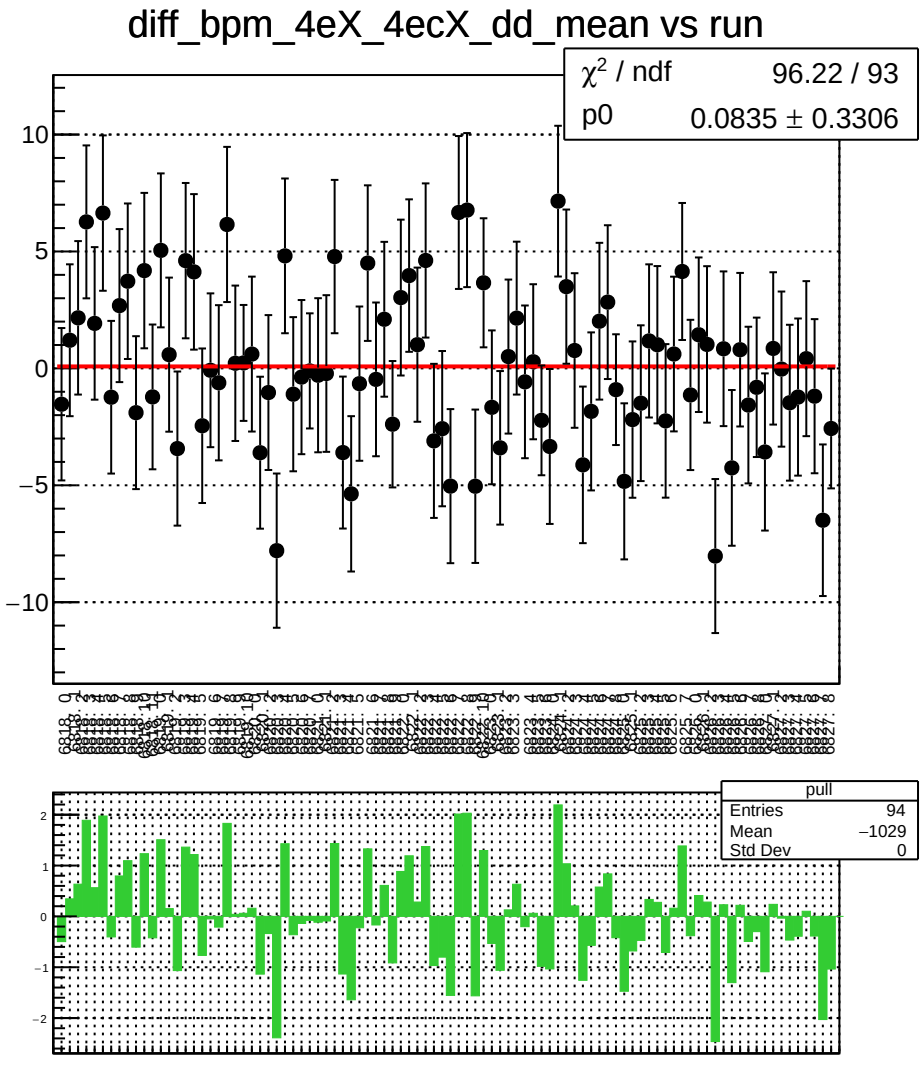

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 87.46 / 93
p0 −0.004206 ± 0.3951
pull
Entries 94
Mean −2324
Std Dev 0
pull1D
Entries 94
Mean 0.001218
Std Dev 0.9646

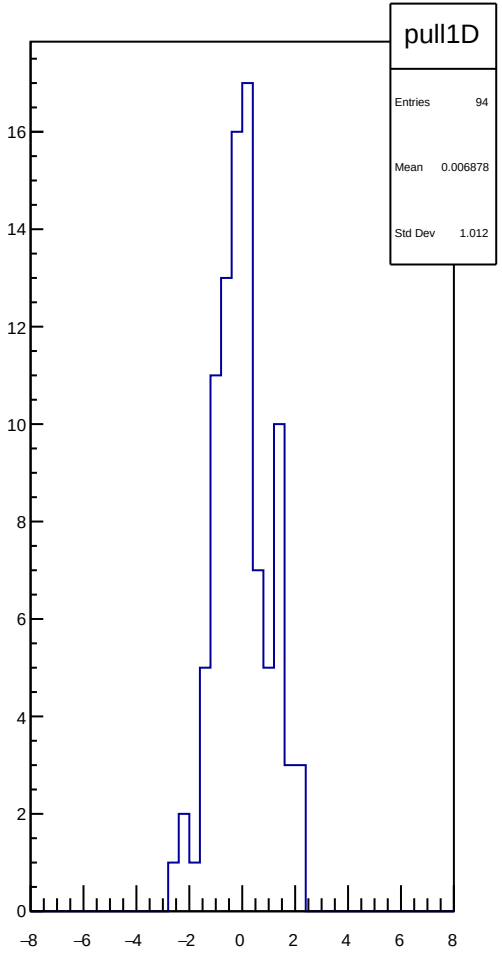

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 887 / 93
p0 374.2 ± 0.2793
410
400
390
380
370
360

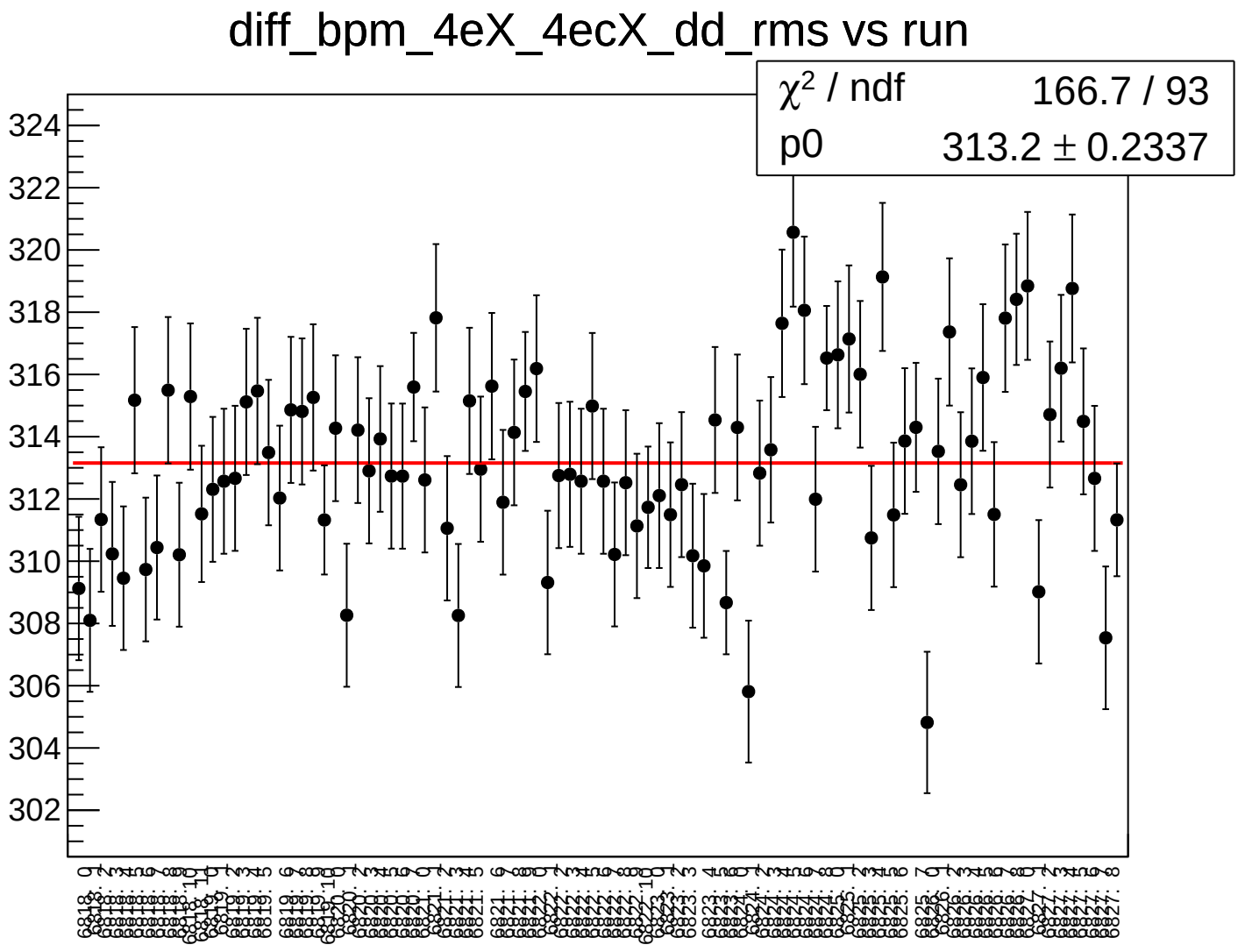

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 73.07 / 93
p0 −13.52 ± 9.798
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −230.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

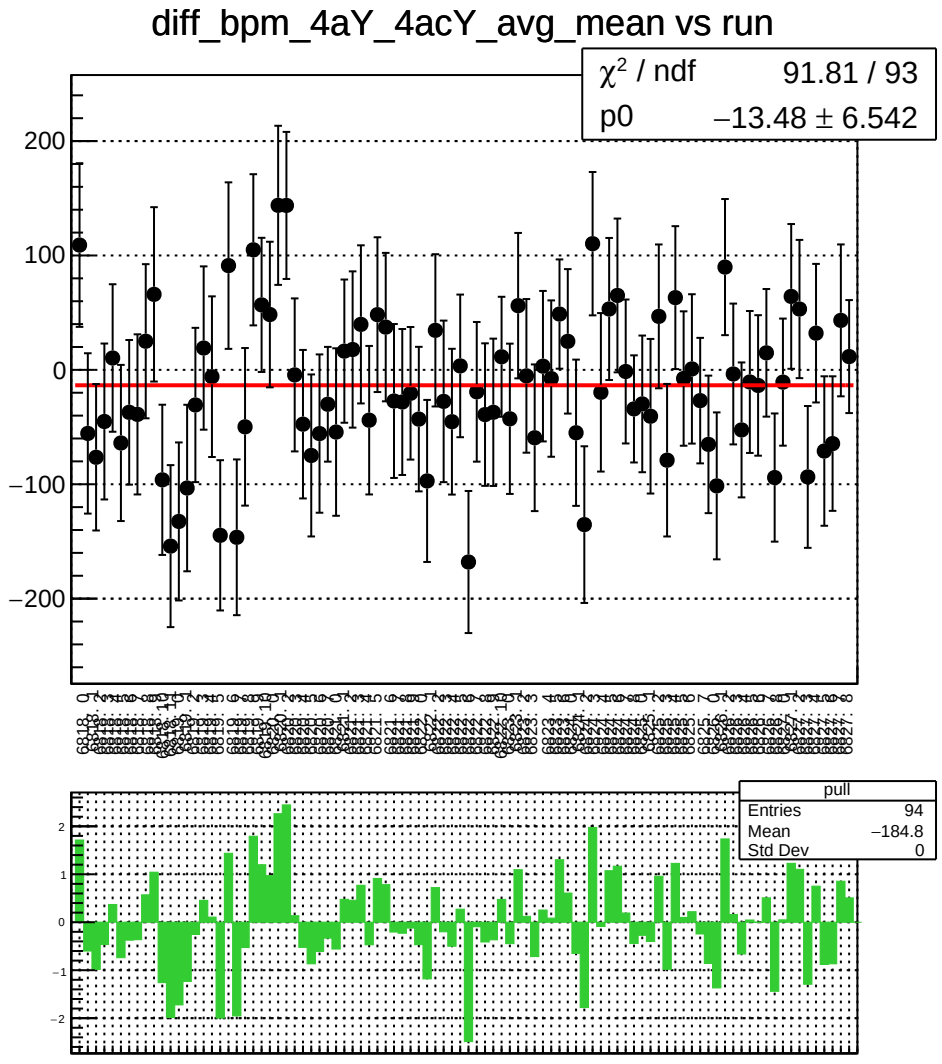

pull1D
Entries 94
Mean −0.008929
Std Dev 0.8816
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

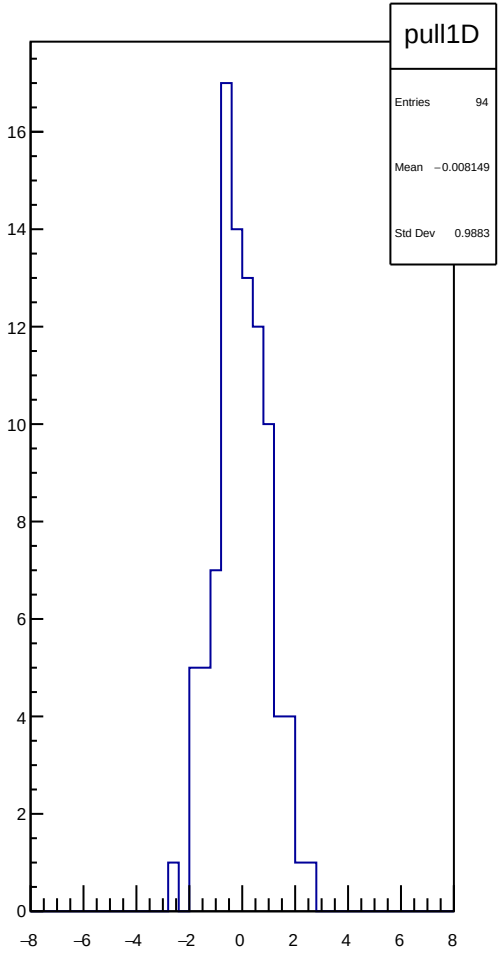

diff_bpm_4eX_4ecX_avg_rms vs run
χ^2 / ndf 3256 / 93
p0 9274 ± 6.929
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400

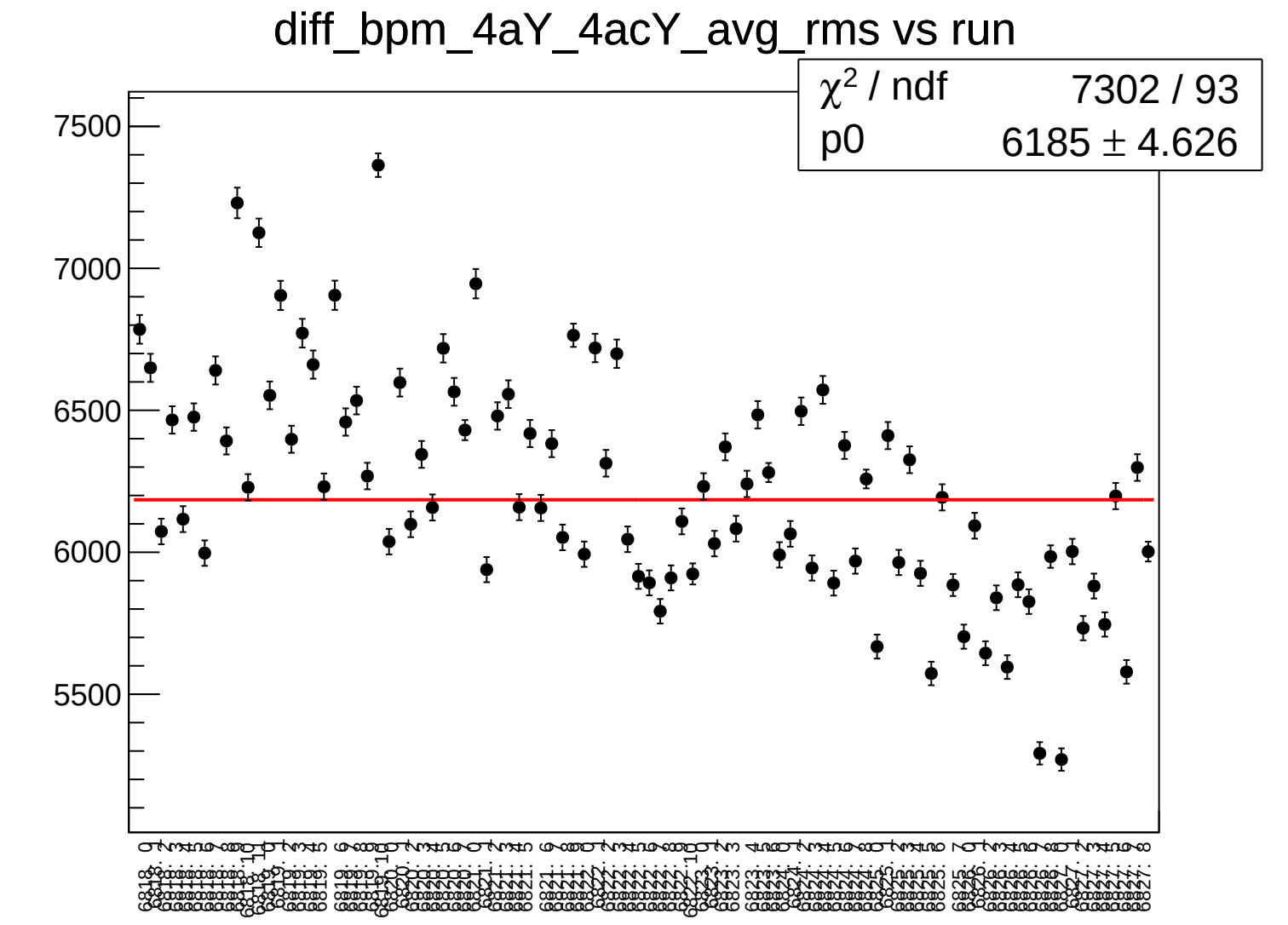

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 96.22 / 93
p0 0.0835 ± 0.3306
pull
Entries 94
Mean −1029
Std Dev 0

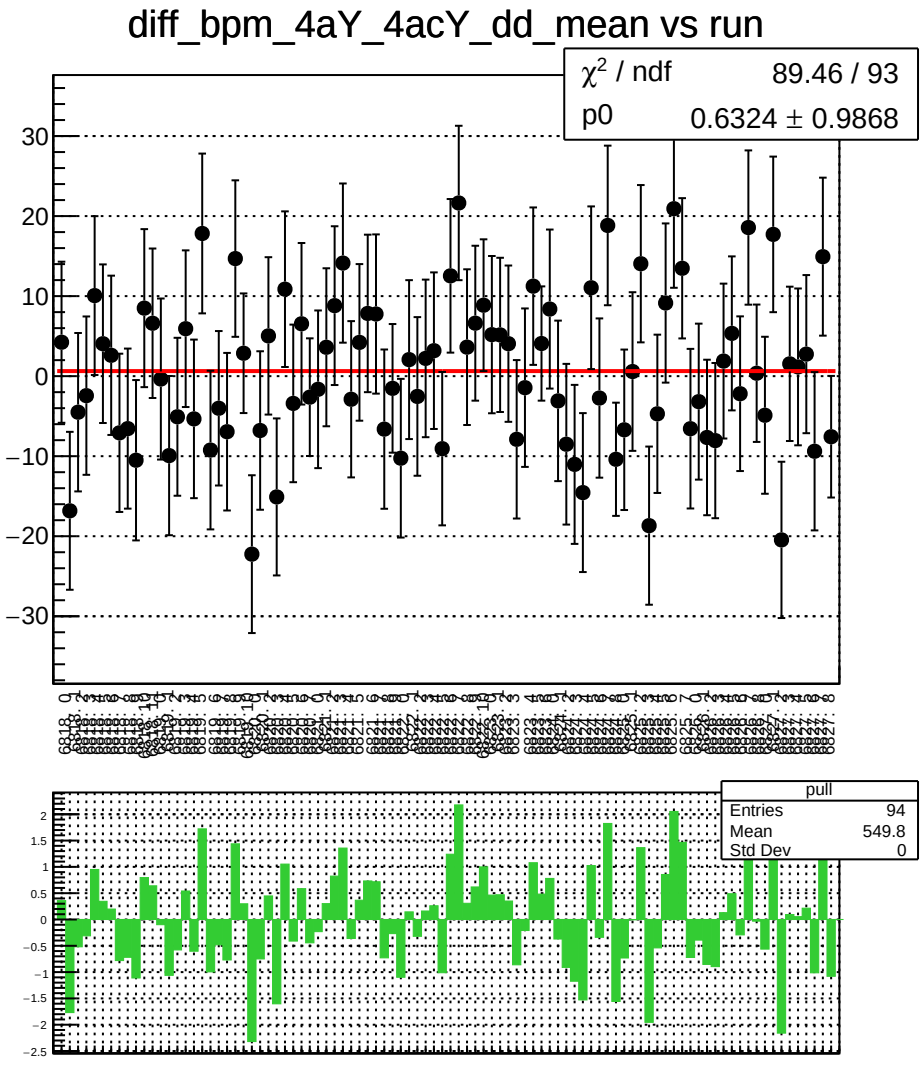

pull1D
Entries 94
Mean 0.006878
Std Dev 1.012

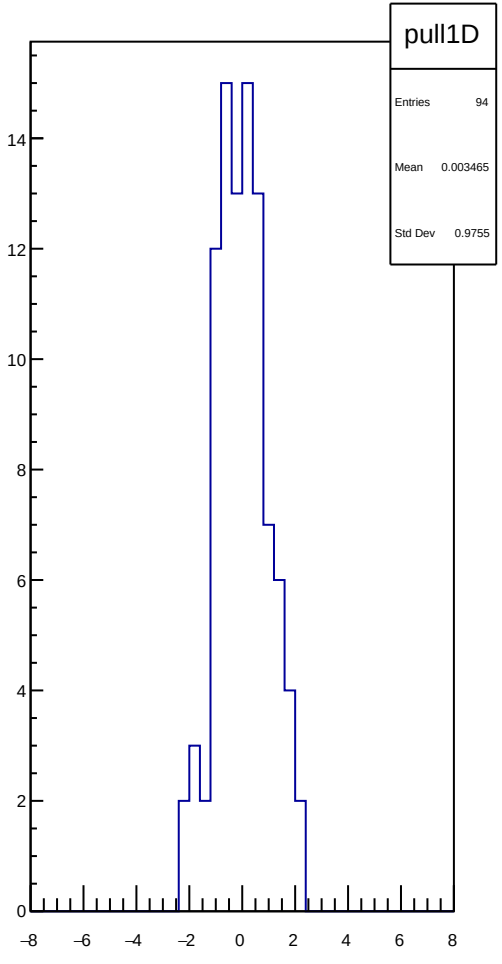

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 166.7 / 93
p0 313.2 ± 0.2337
324
322
320
318
316
314
312
310
308
306
304
302

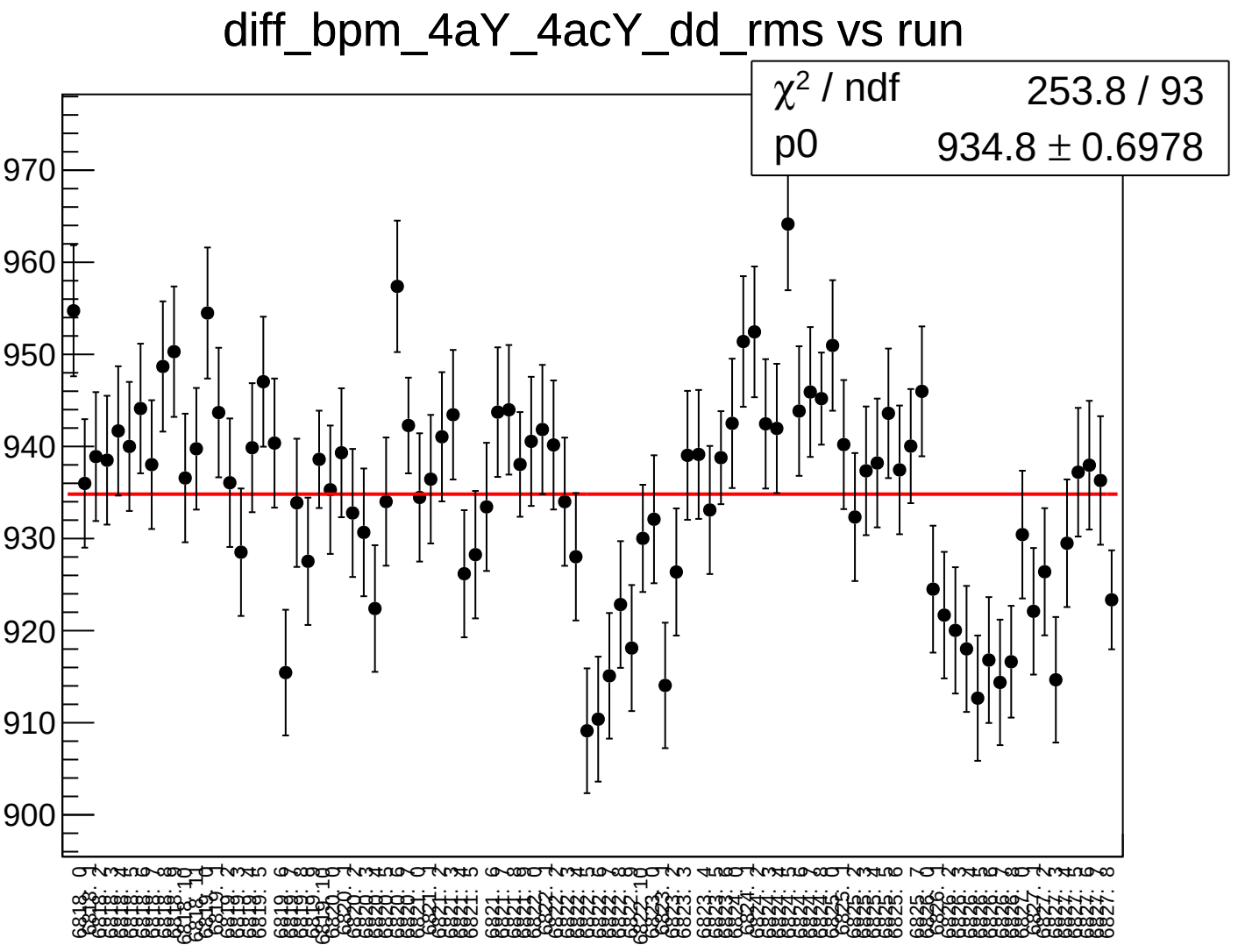

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 91.81 / 93
p0 −13.48 ± 6.542
200
100
0
−100
−200
pull
Entries 94
Mean −184.8
Std Dev 0
2
1
0
−1
−2

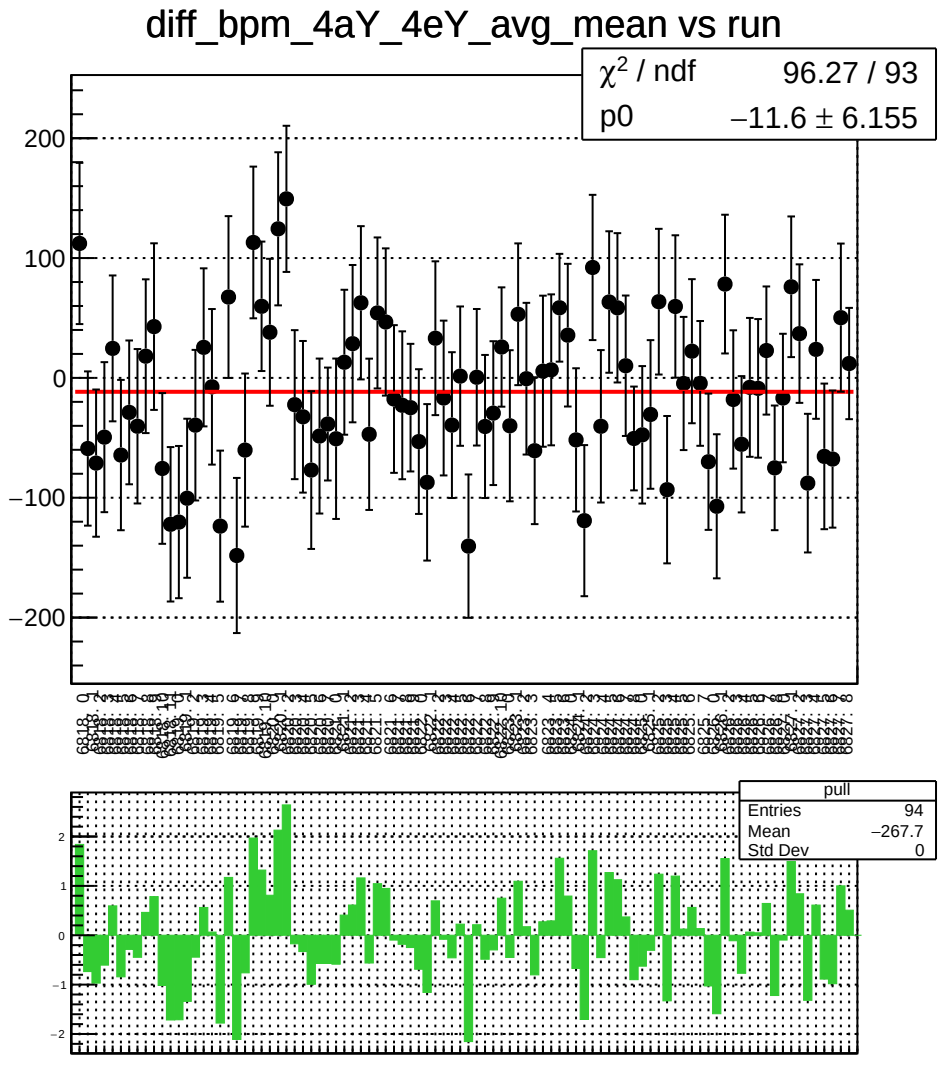

pull1D
Entries 94
Mean −0.008149
Std Dev 0.9883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

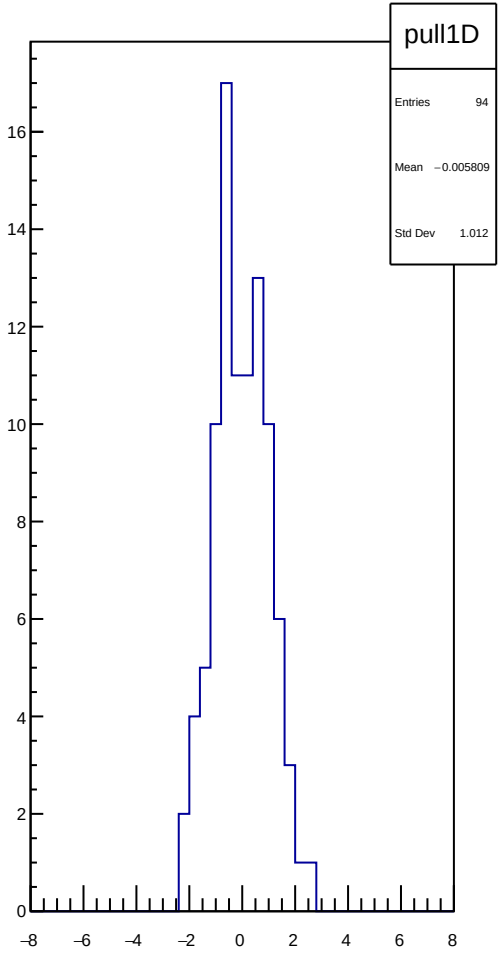

diff_bpm_4aY_4acY_avg_rms vs run
χ^2 / ndf 7302 / 93
p0 6185 ± 4.626
7500
7000
6500
6000
5500

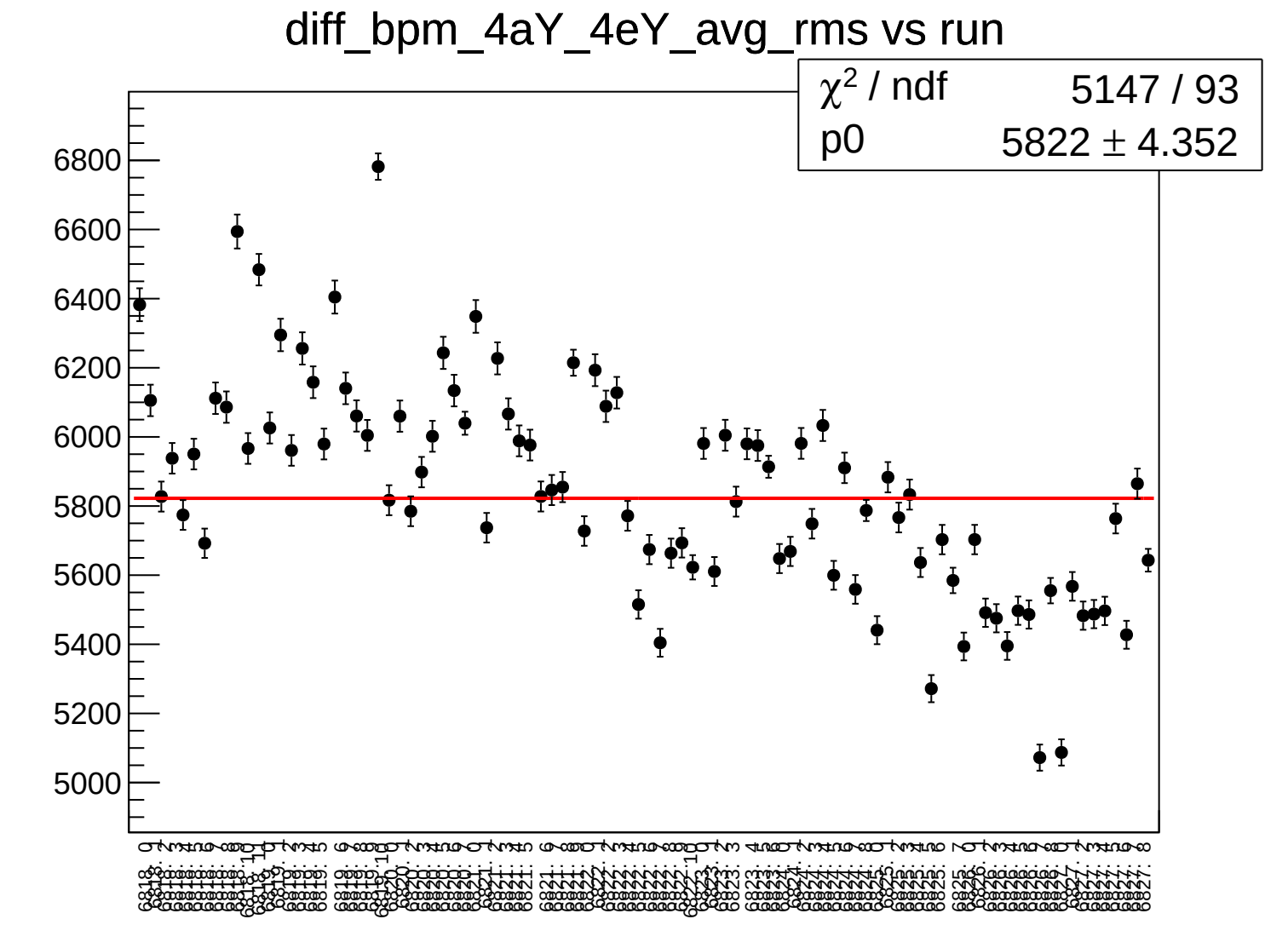

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 89.46 / 93
p0 0.6324 ± 0.9868
pull
Entries 94
Mean 549.8
Std Dev 0

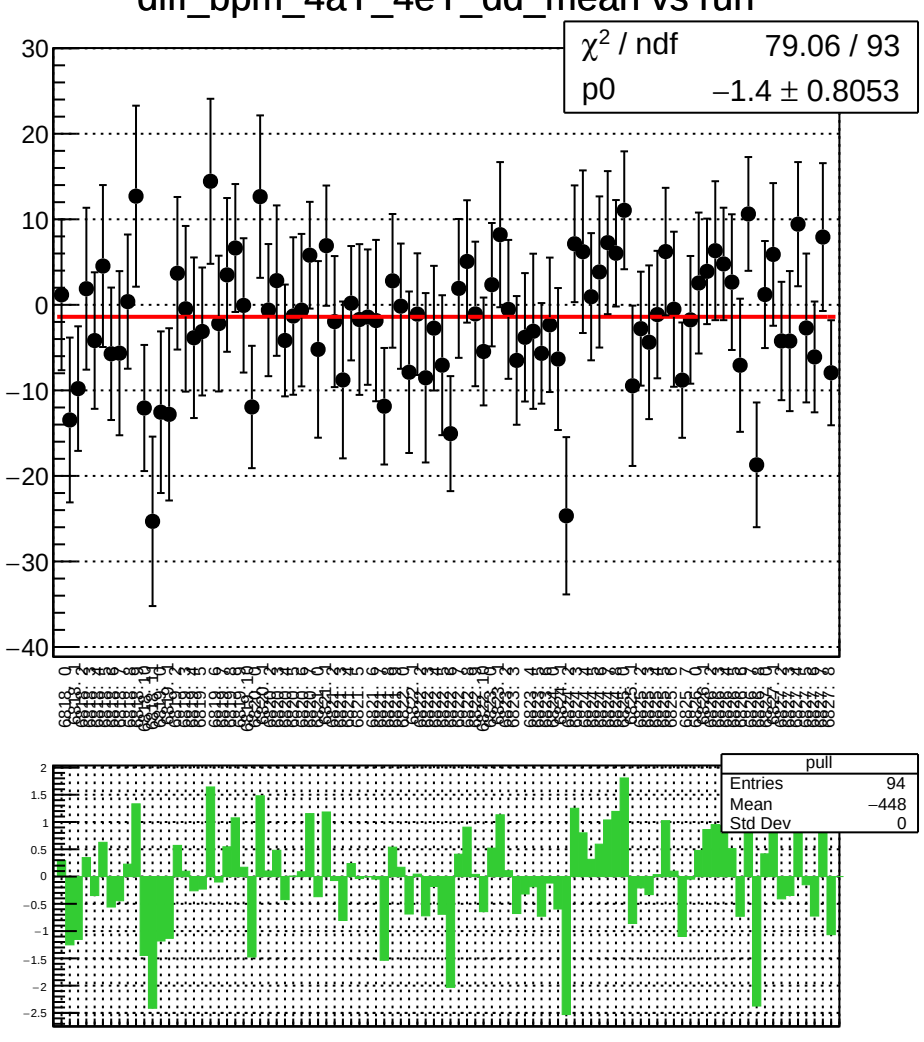

pull1D
Entries 94
Mean 0.003465
Std Dev 0.9755

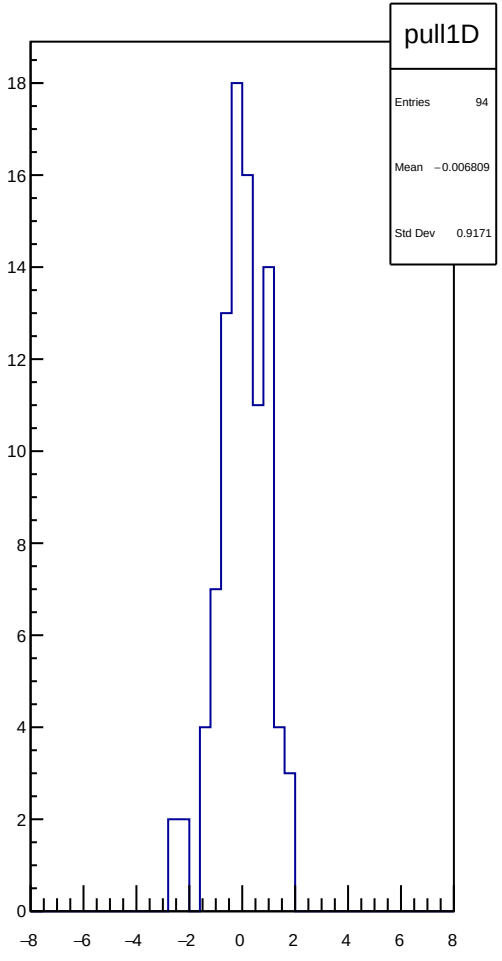

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 253.8 / 93
p0 934.8 ± 0.6978
970
960
950
940
930
920
910
900

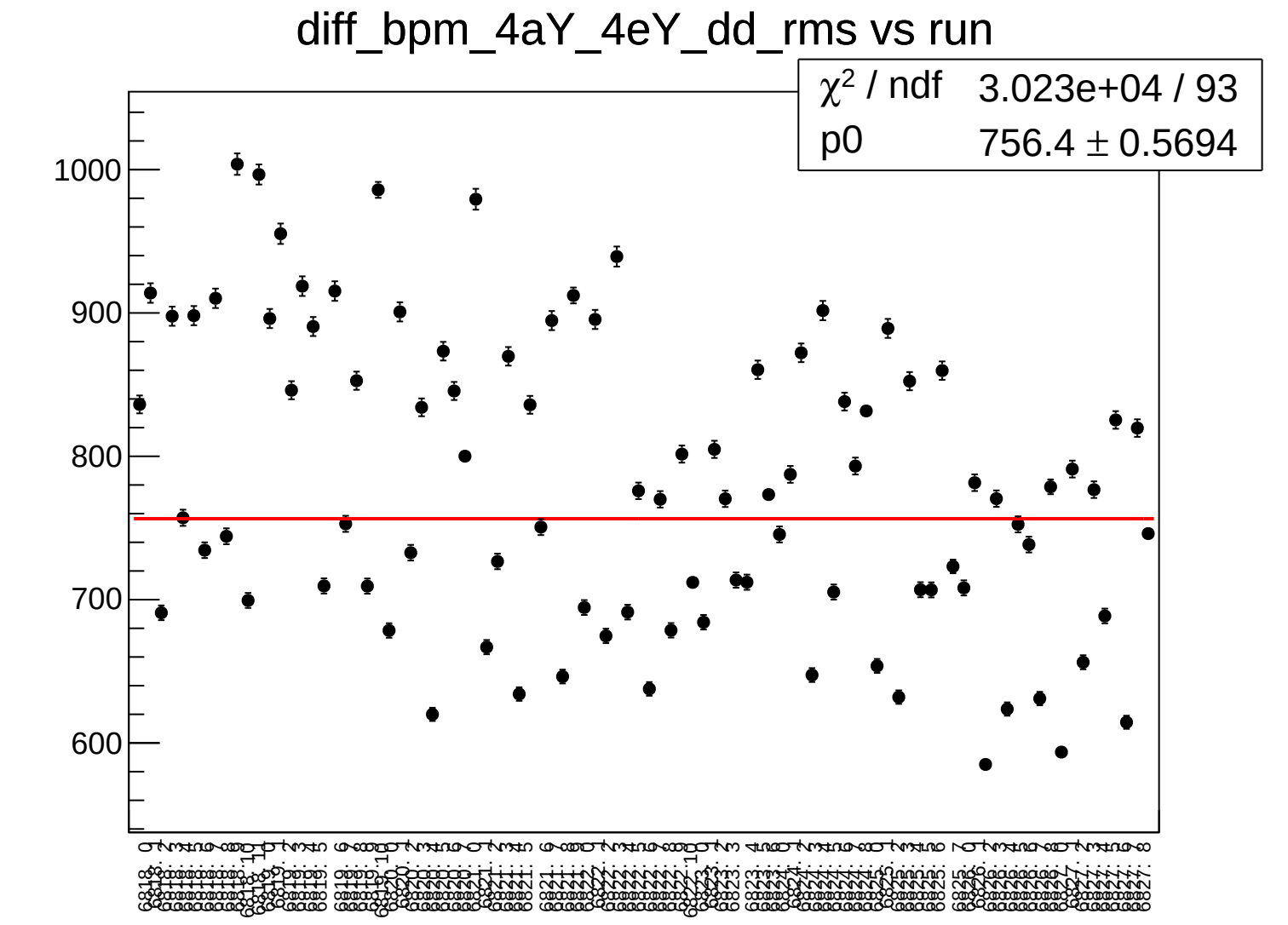

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 96.27 / 93
p0 −11.6 ± 6.155
200
100
0
−100
−200
pull
Entries 94
Mean −267.7
Std Dev 0
2
1
0
−1
−2

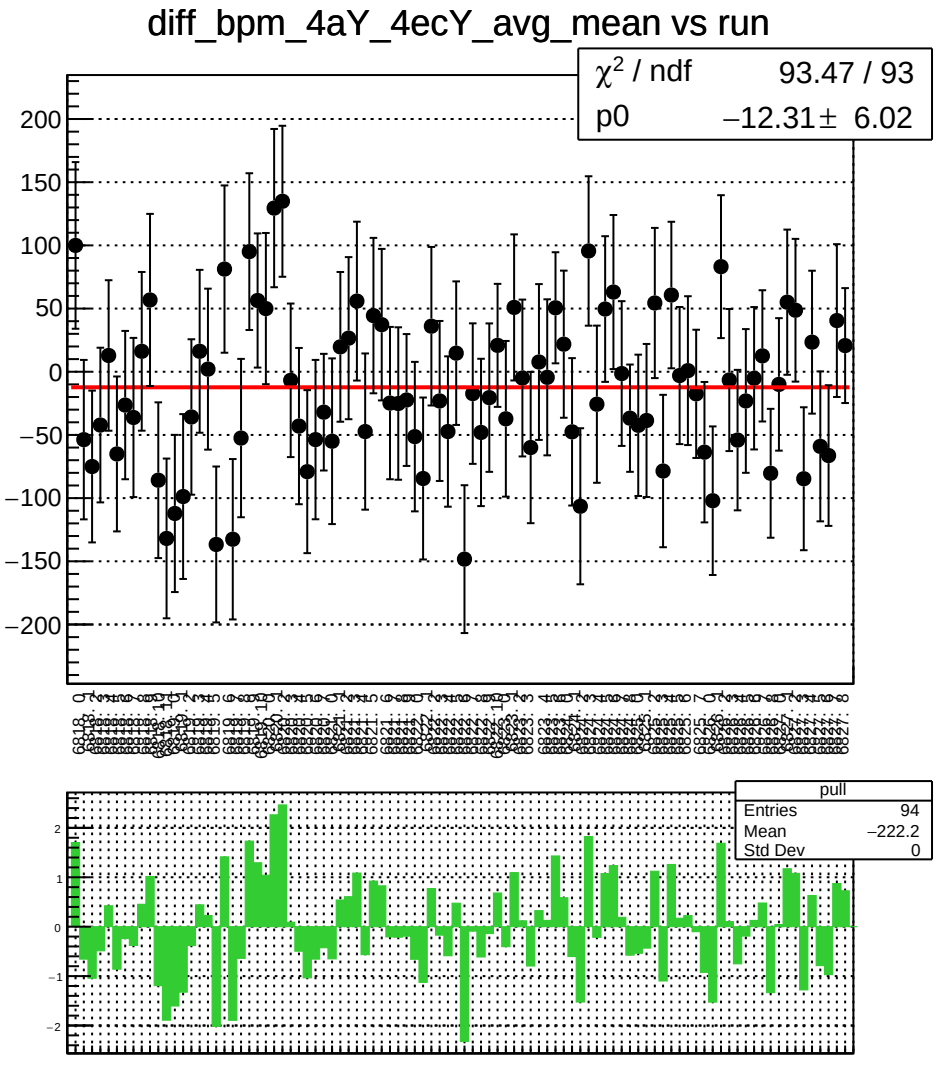

pull1D
Entries 94
Mean −0.005809
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

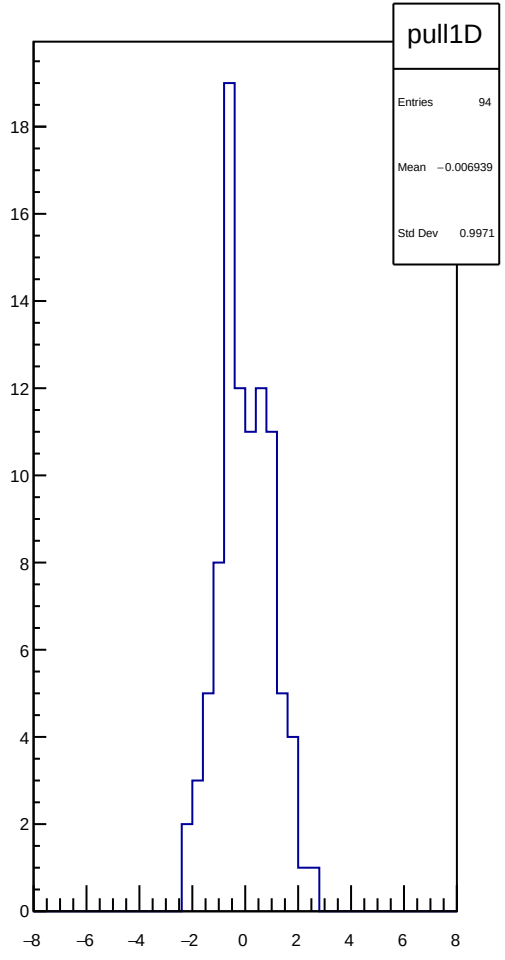

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 5147 / 93
p0 5822 ± 4.352
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

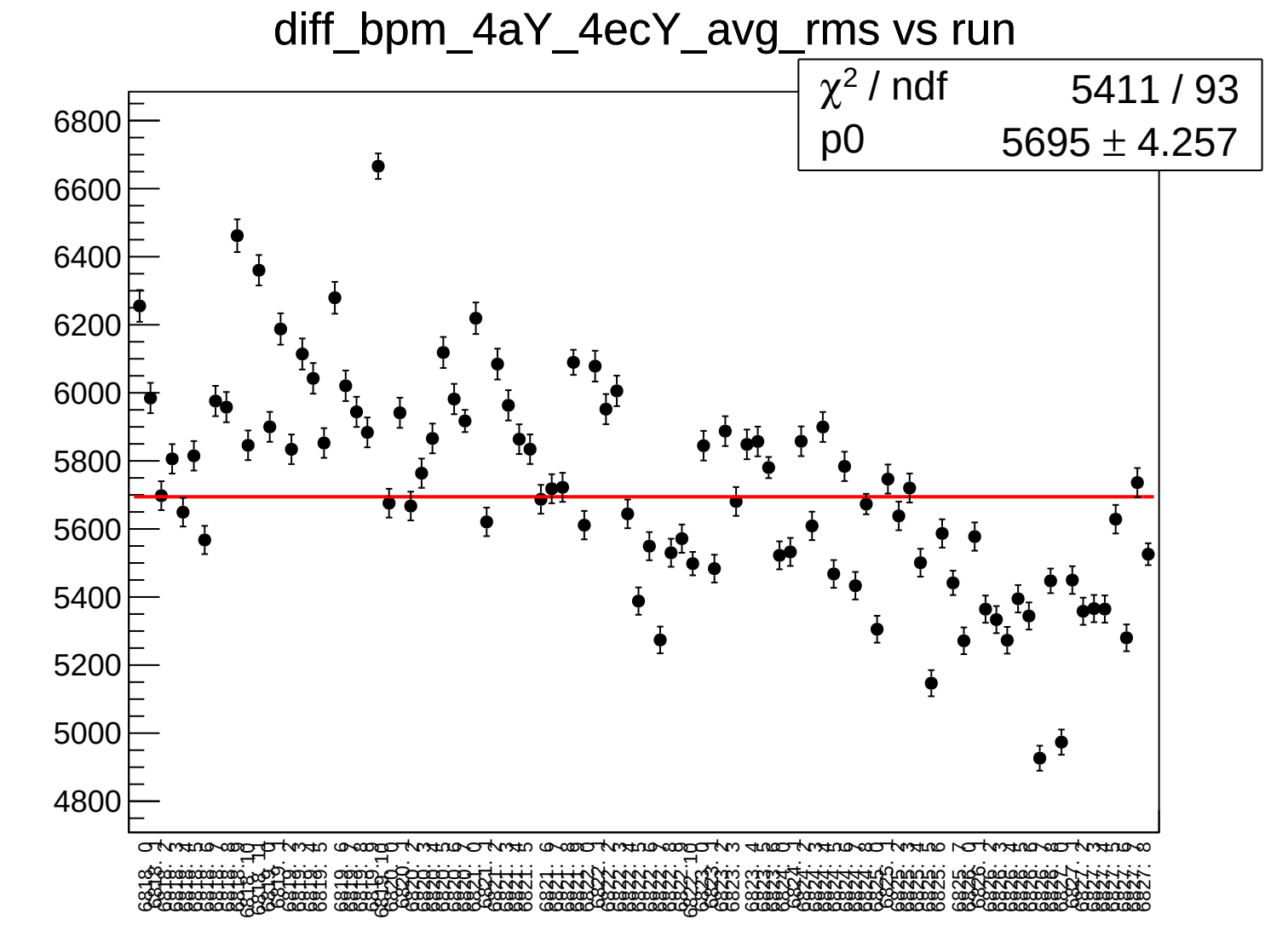

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 79.06 / 93
p0 −1.4 ± 0.8053
pull
Entries 94
Mean −448
Std Dev 0

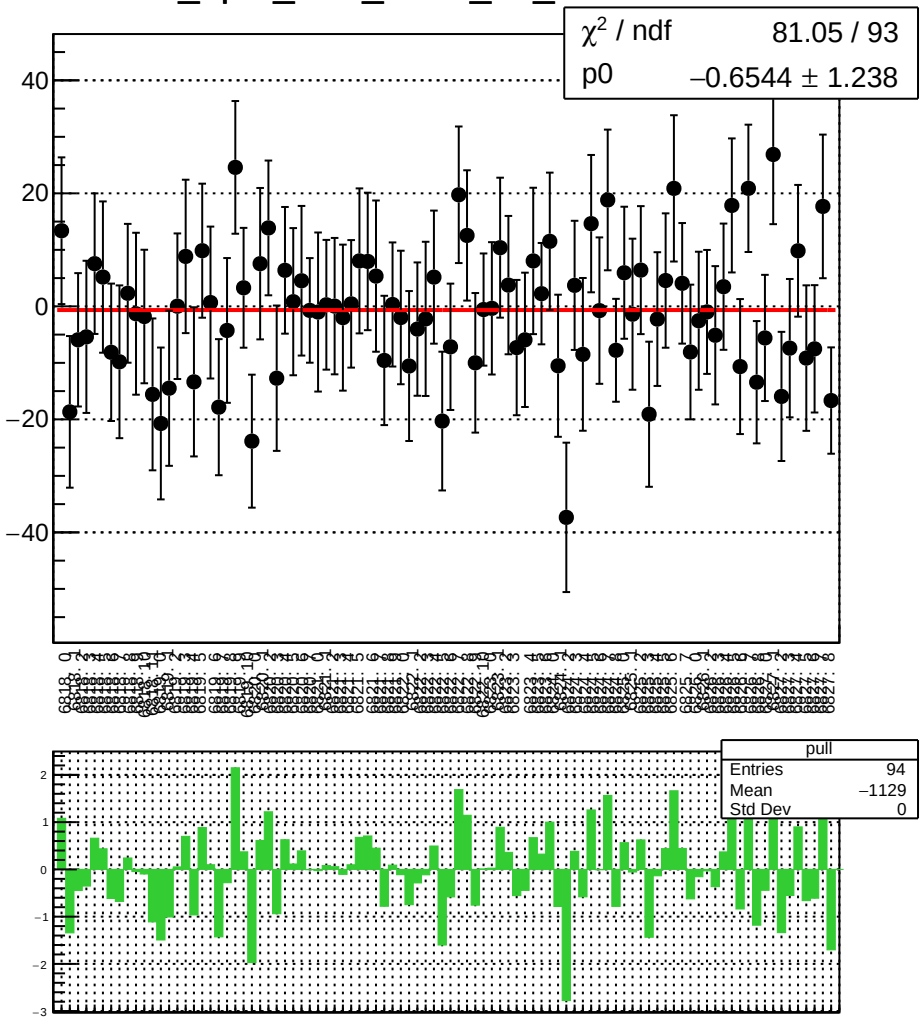

pull1D
Entries 94
Mean −0.006809
Std Dev 0.9171

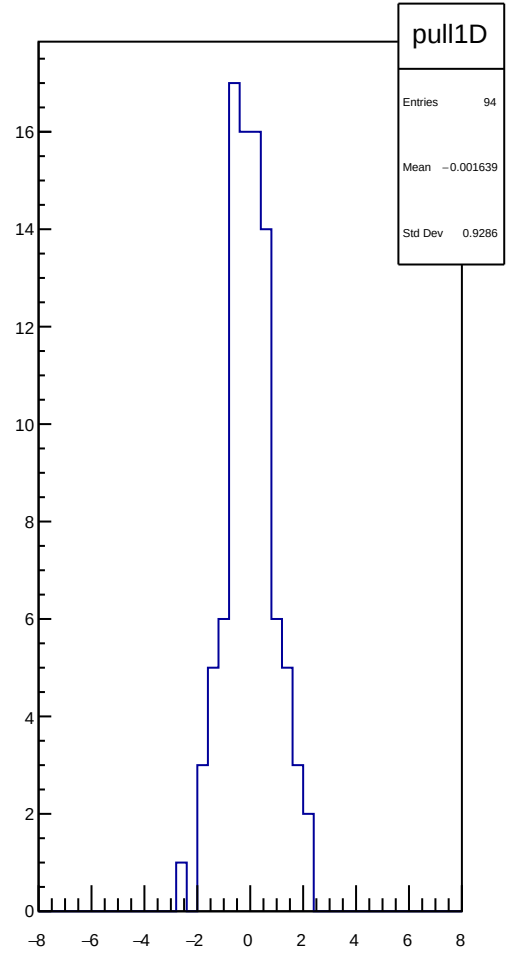

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 3.023e+04 / 93
p0 756.4 ± 0.5694
1000
900
800
700
600

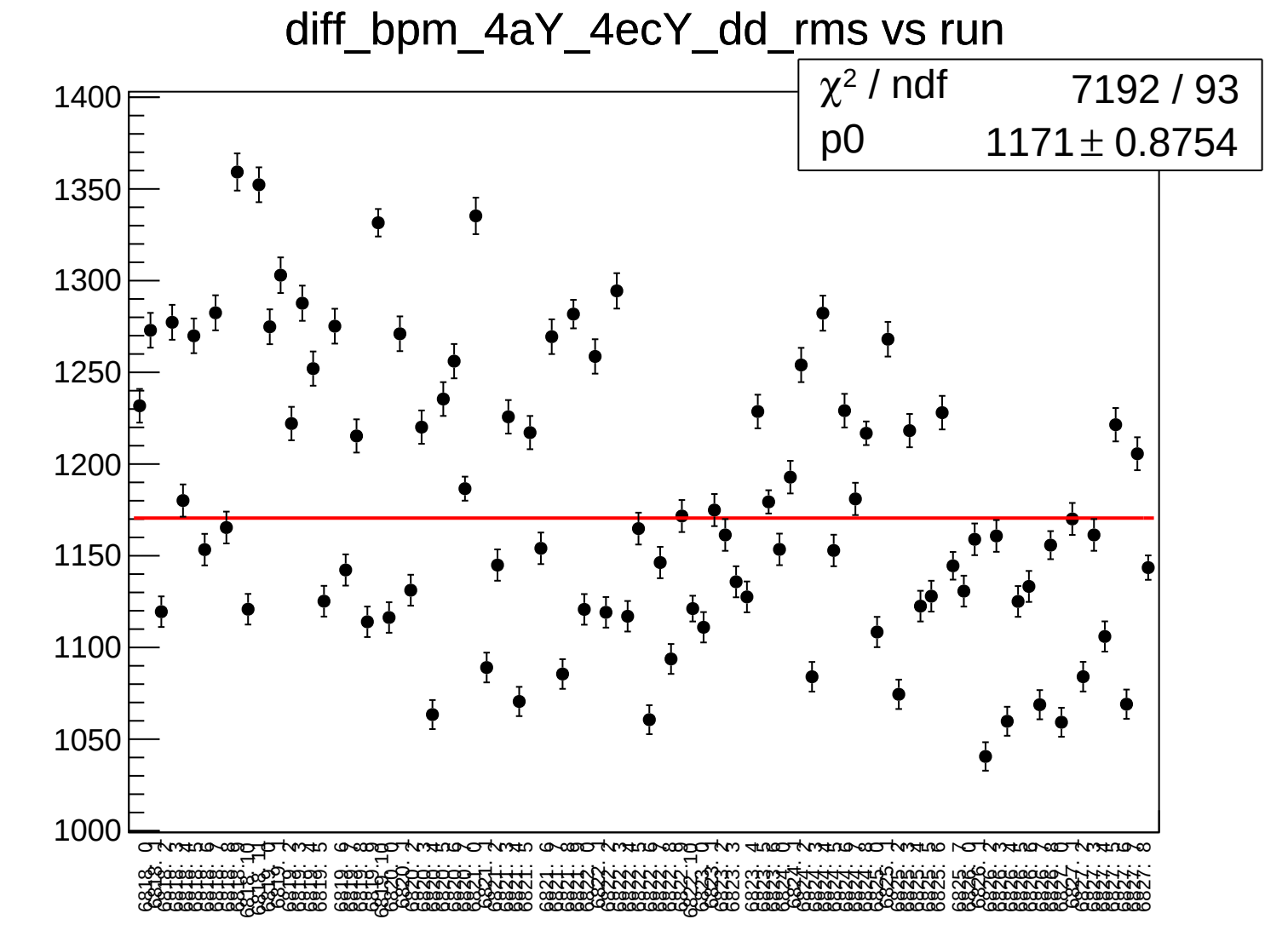

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 93.47 / 93
p0 −12.31 ± 6.02
pull
Entries 94
Mean −222.2
Std Dev 0

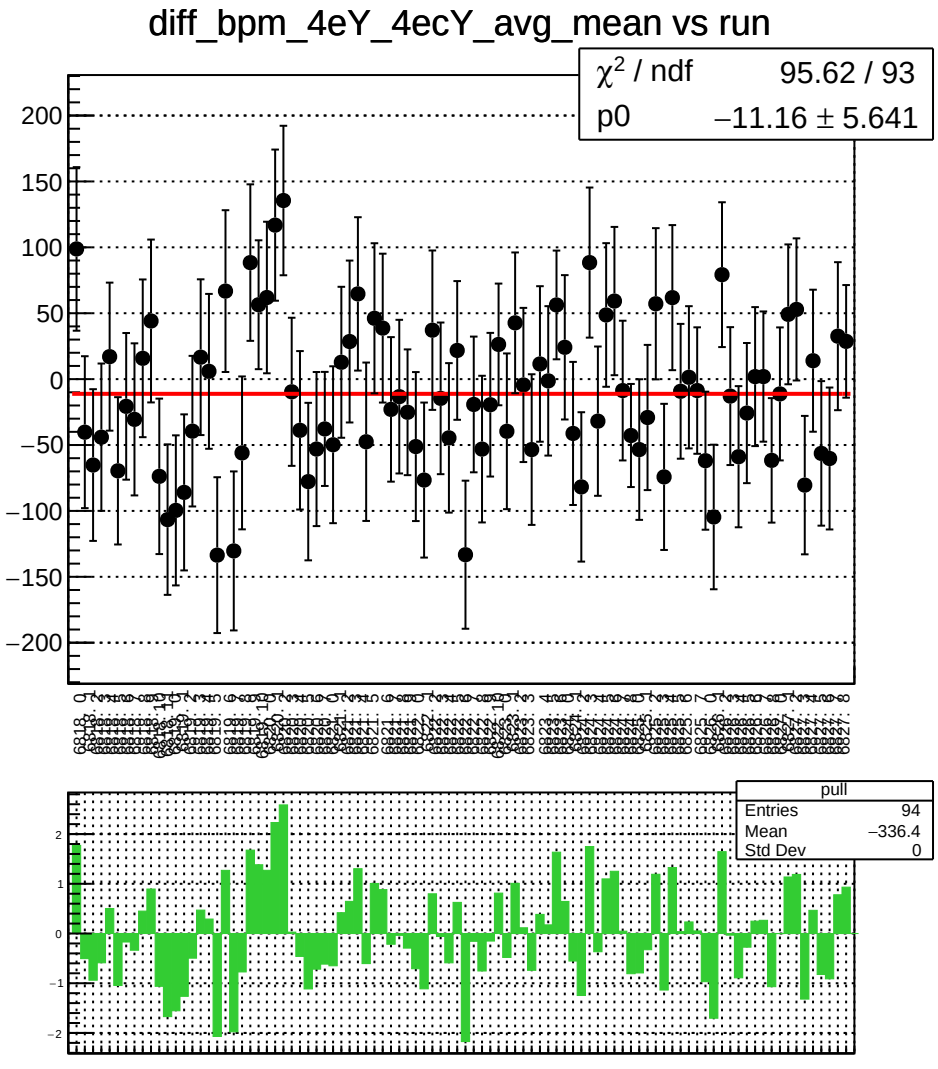

pull1D
Entries 94
Mean −0.006939
Std Dev 0.9971

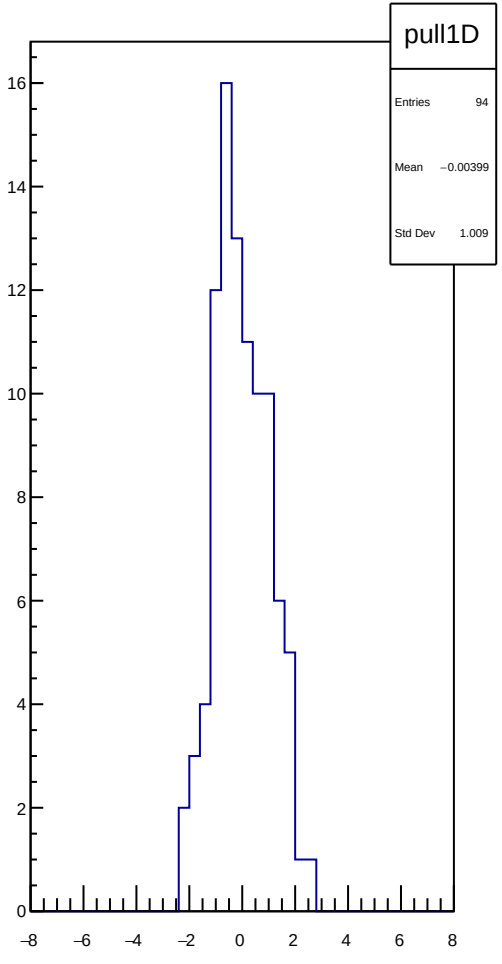

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 5411 / 93
p0 5695 ± 4.257
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

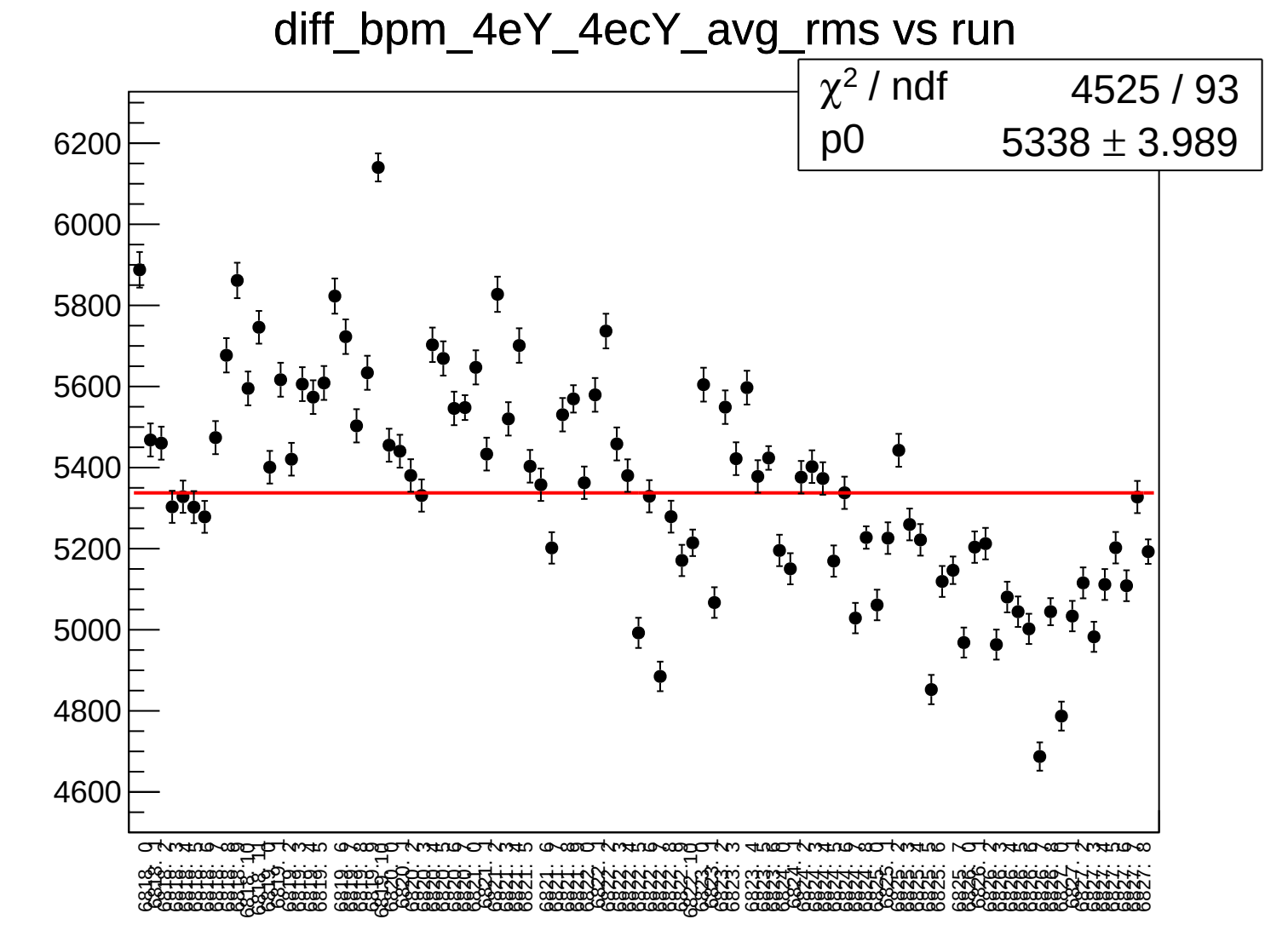

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 81.05 / 93
p0 −0.6544 ± 1.238
pull
Entries 94
Mean −1129
Std Dev 0

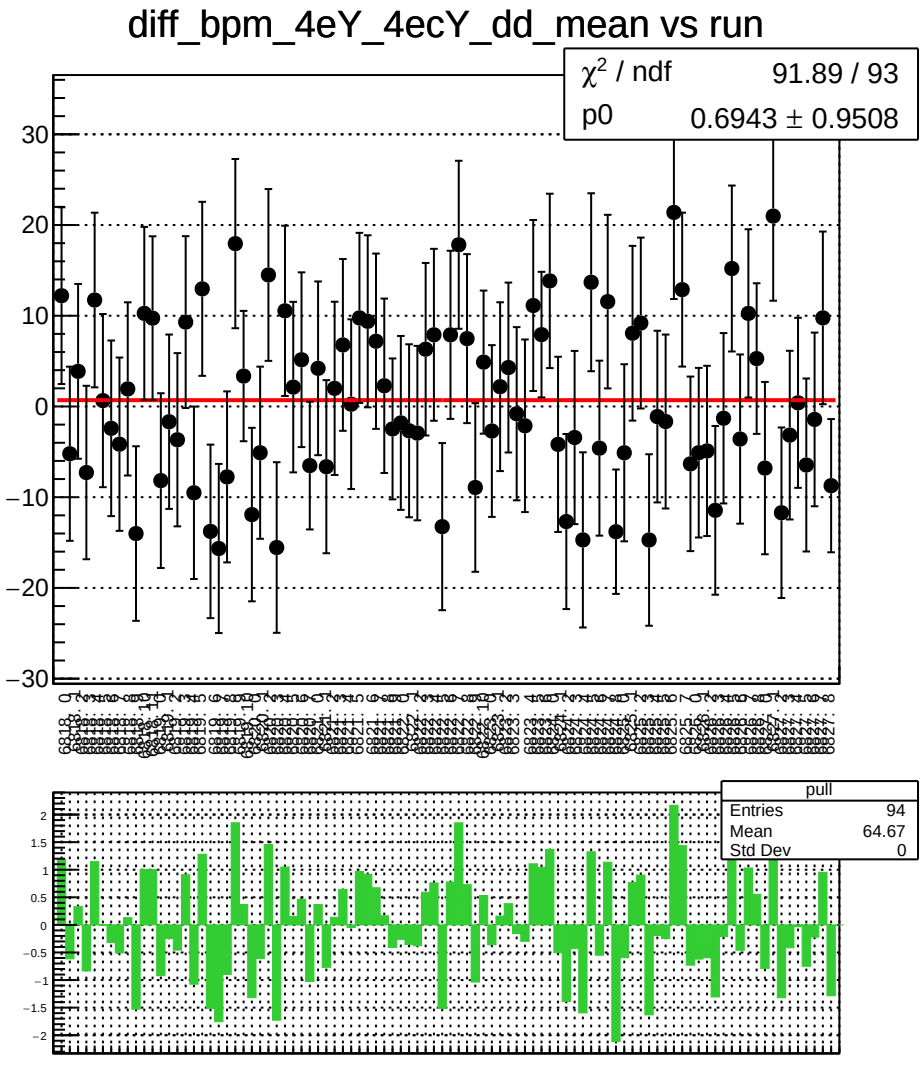

pull1D
Entries 94
Mean −0.001639
Std Dev 0.9286

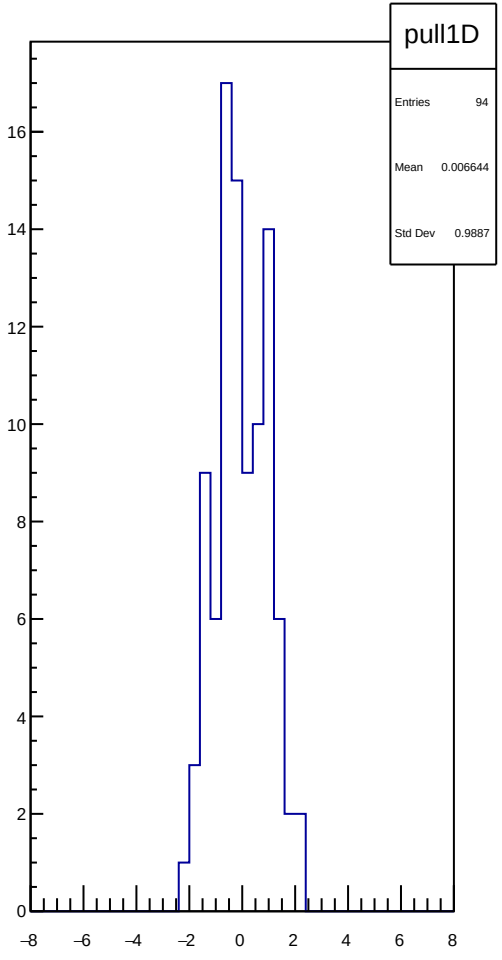

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 7192 / 93
p0 1171 ± 0.8754
1400
1350
1300
1250
1200
1150
1100
1050
1000

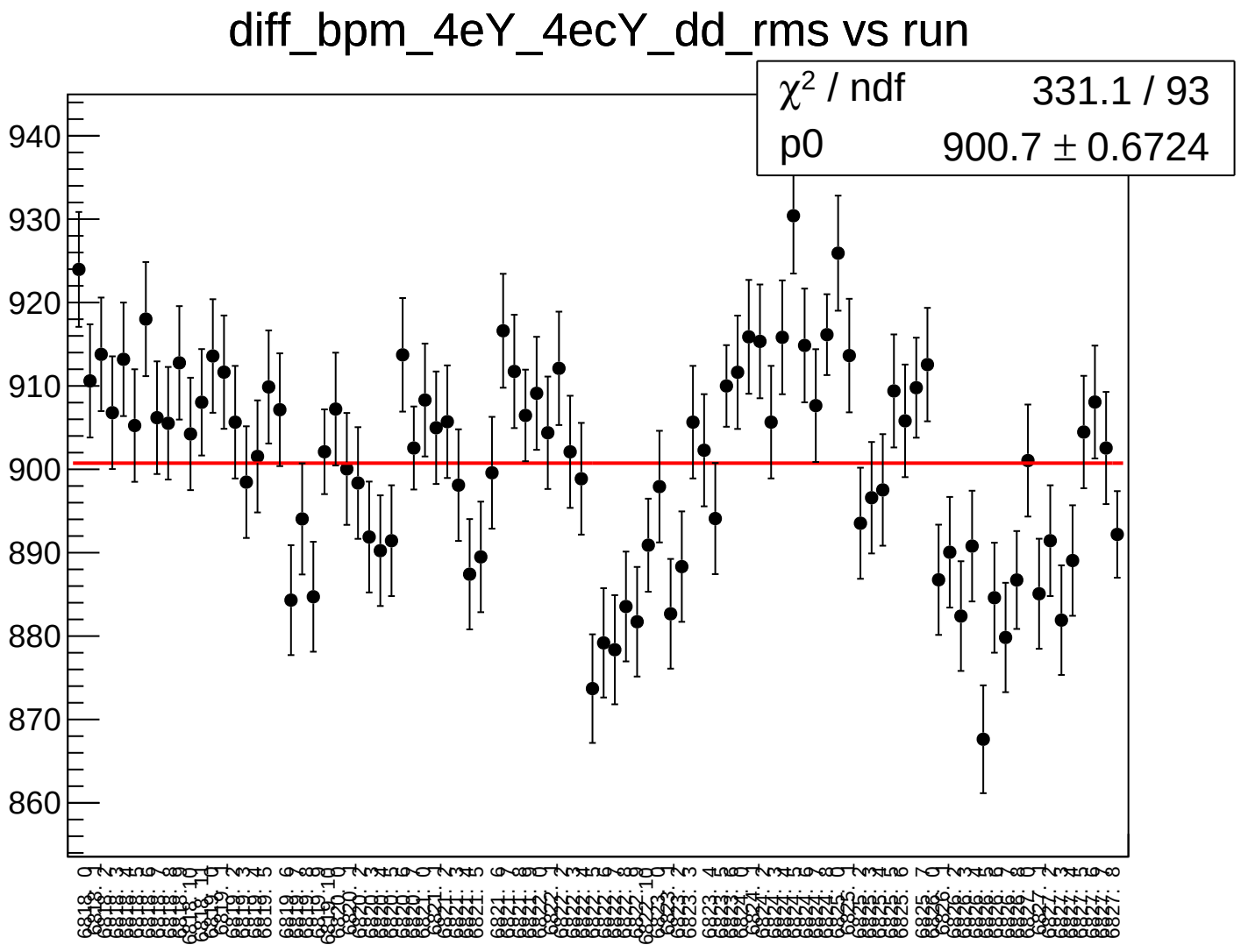

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 95.62 / 93
p0 −11.16 ± 5.641
pull
Entries 94
Mean −336.4
Std Dev 0

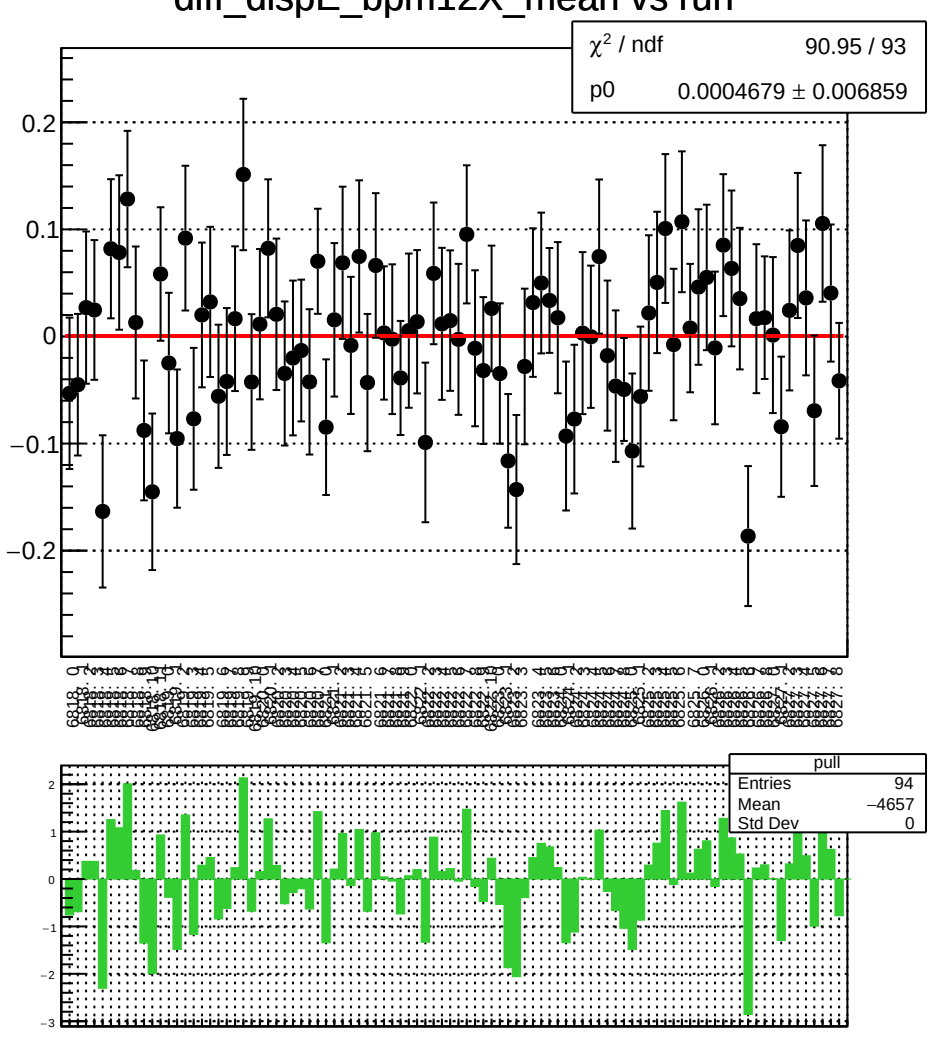

pull1D
Entries 94
Mean −0.00399
Std Dev 1.009

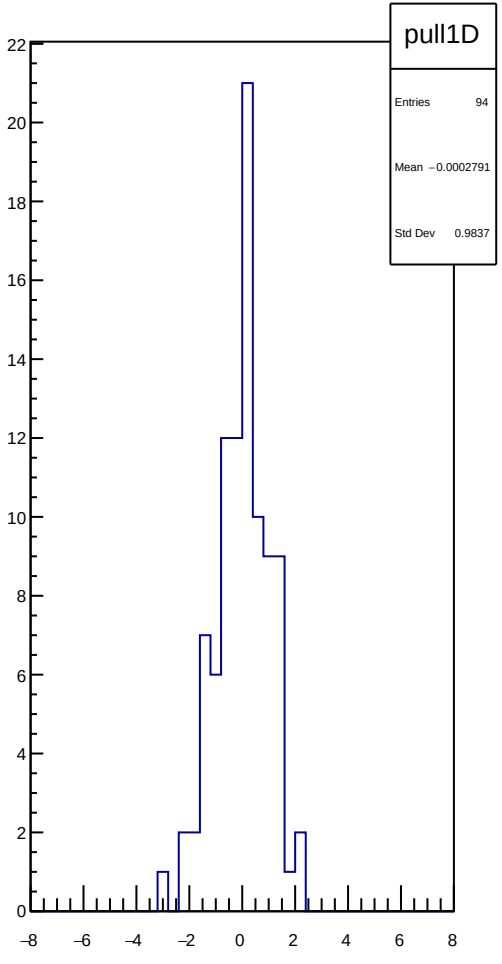

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4525 / 93
p0 5338 ± 3.989
6200
6000
5800
5600
5400
5200
5000
4800
4600

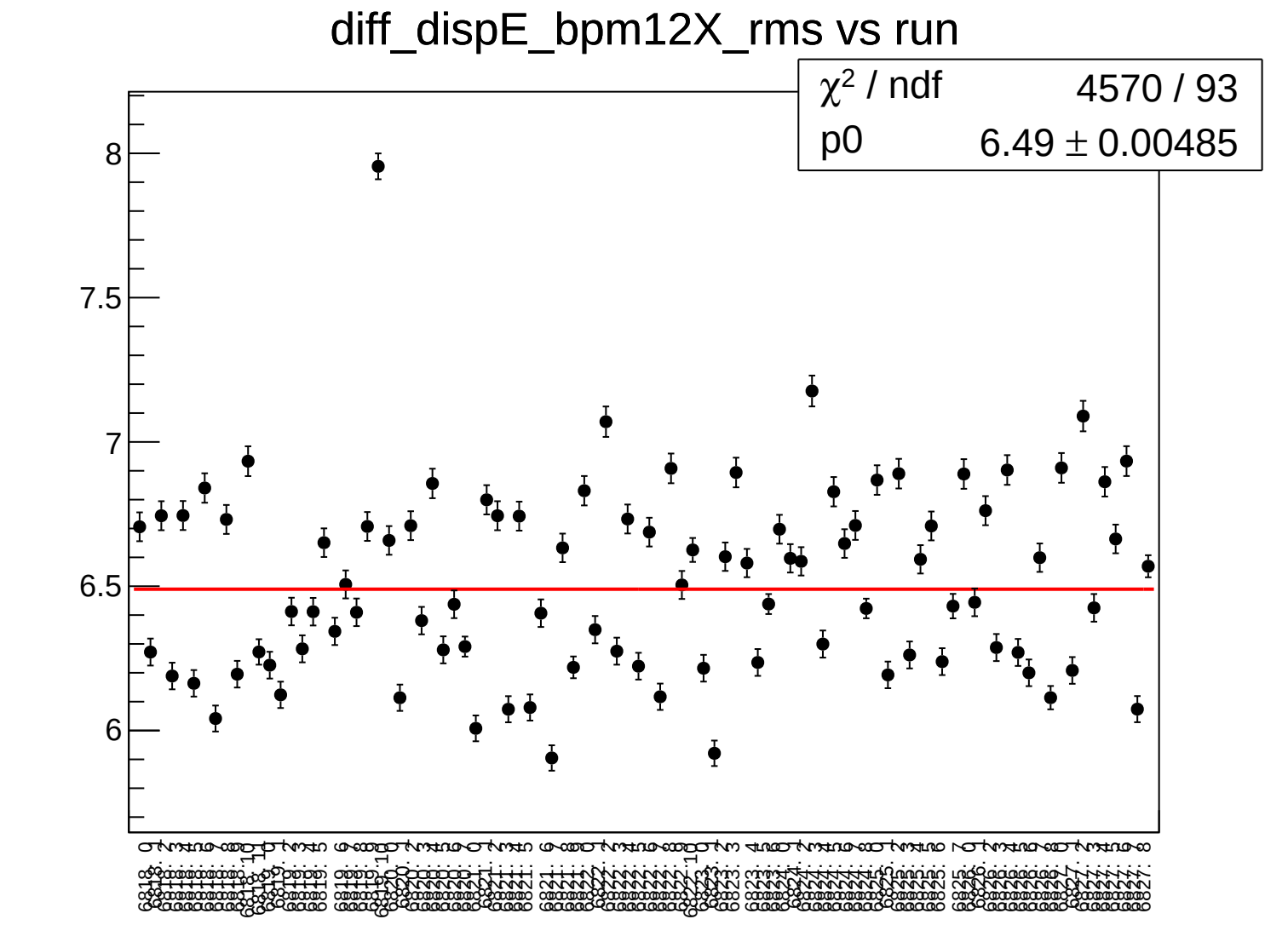

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 91.89 / 93
p0 0.6943 ± 0.9508
pull
Entries 94
Mean 64.67
Std Dev 0

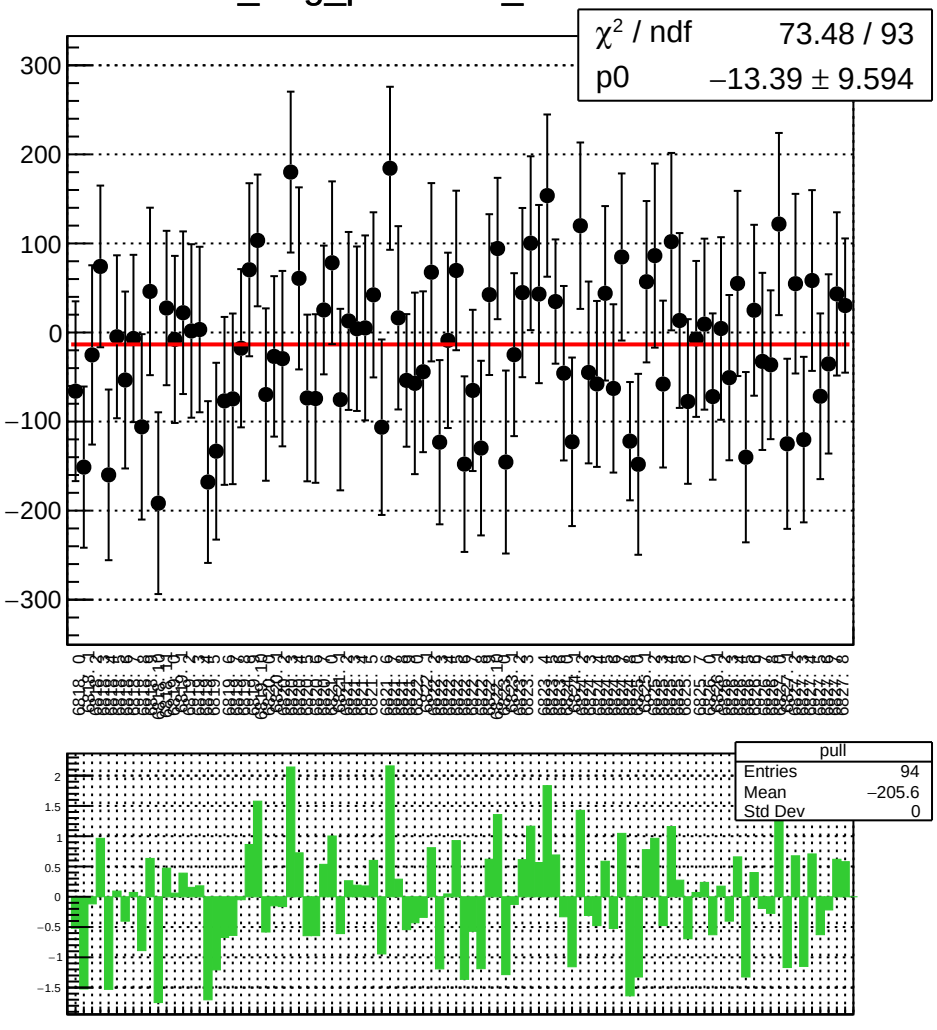

pull1D
Entries 94
Mean 0.006644
Std Dev 0.9887

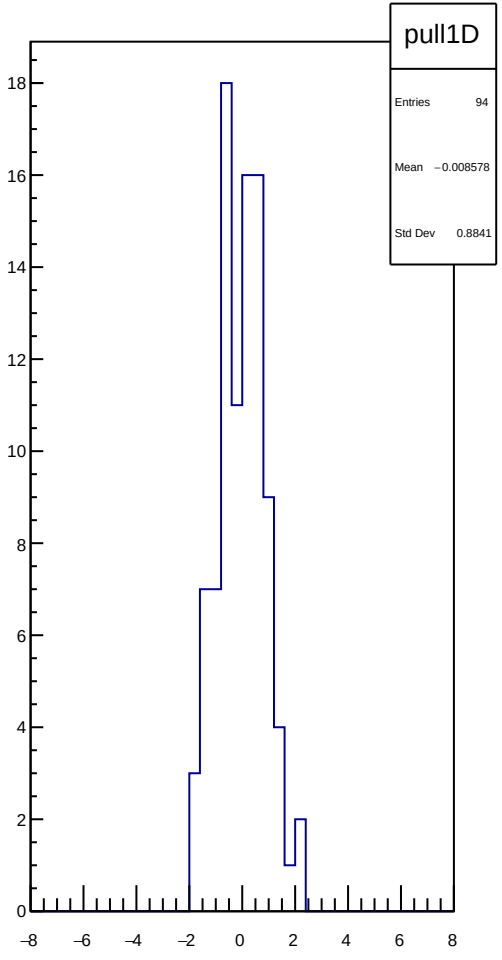

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 331.1 / 93
p0 900.7 ± 0.6724
940
930
920
910
900
890
880
870
860

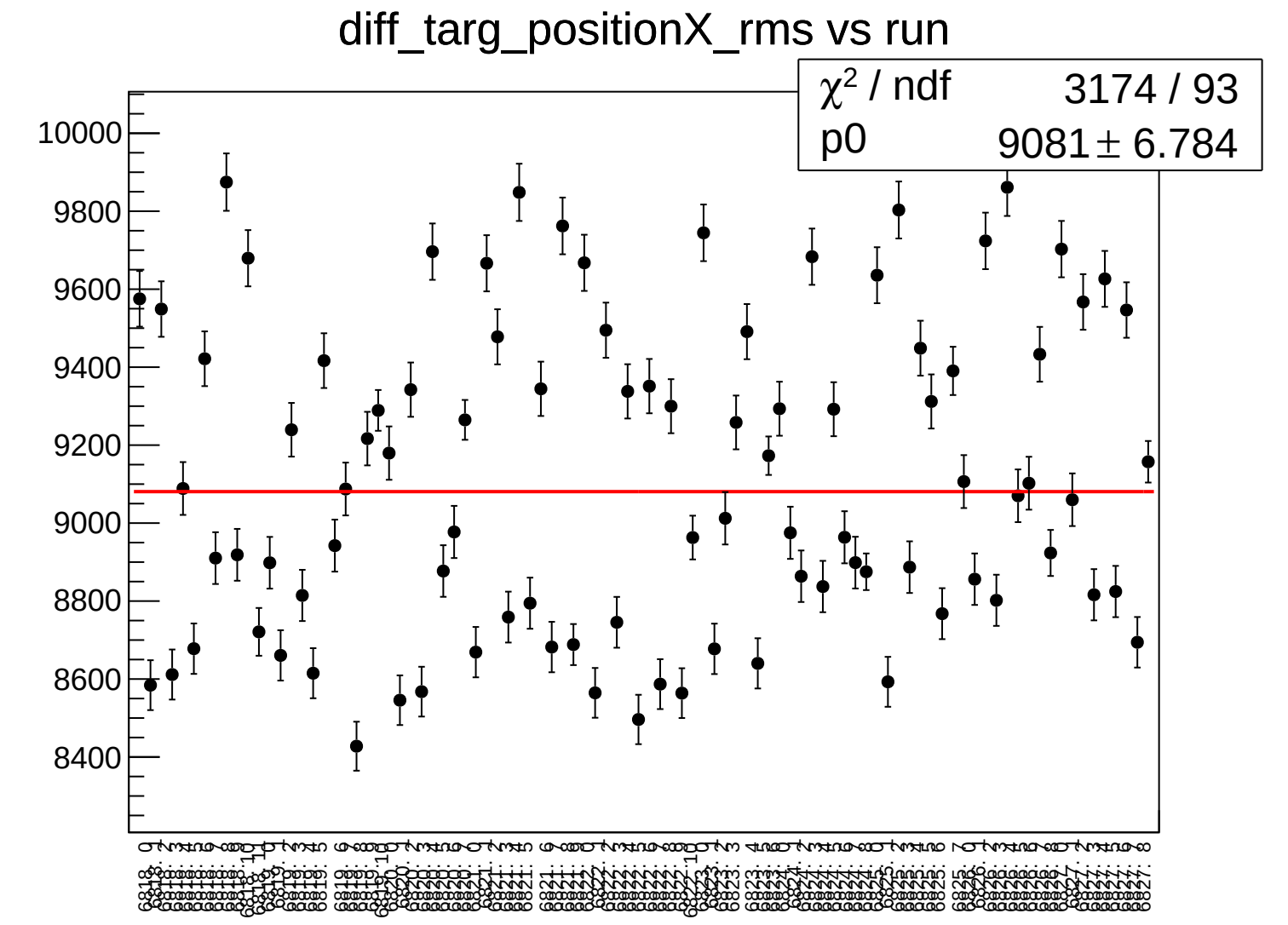

diff_dispE_bpm12X_mean vs run
χ² / ndf 90.95 / 93
p0 0.0004679 ± 0.006859
pull
Entries 94
Mean −4657
Std Dev 0

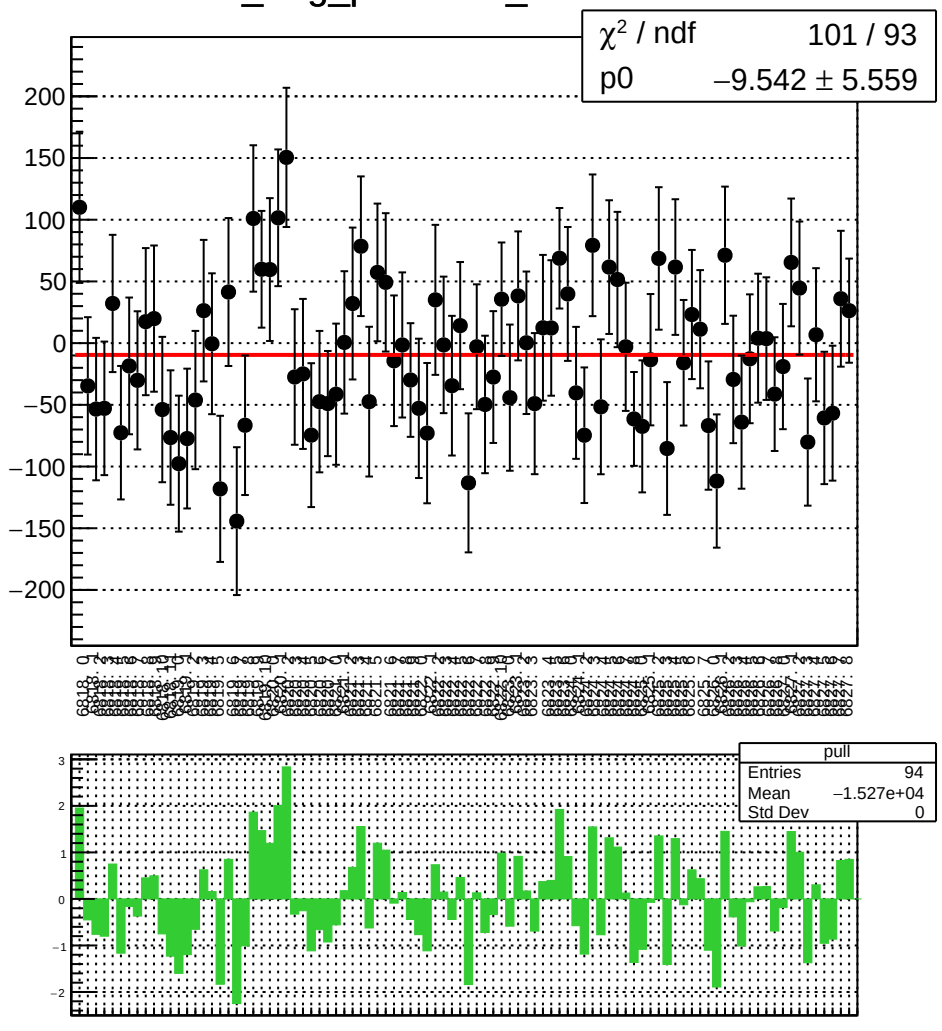

pull1D
Entries 94
Mean −0.0002791
Std Dev 0.9837

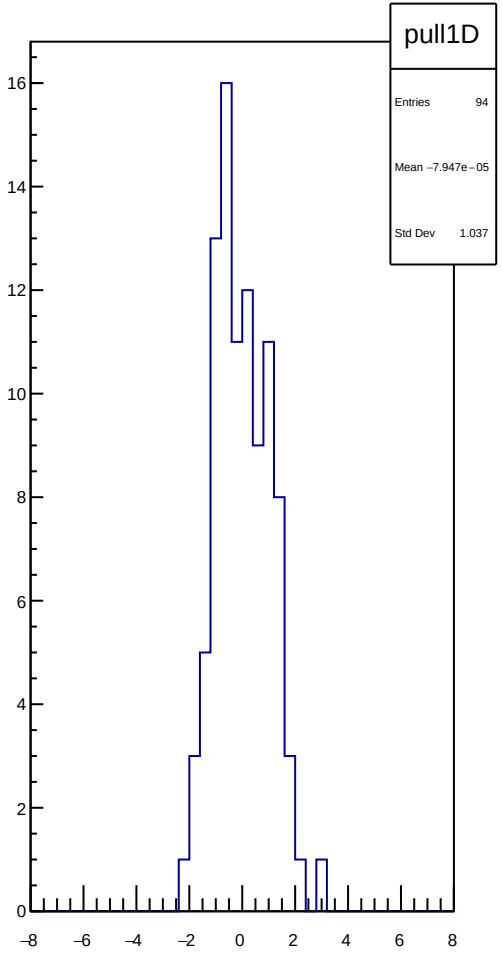

diff_dispE_bpm12X_rms vs run
χ² / ndf 4570 / 93
p0 6.49 ± 0.00485
8
7.5
7
6.5
6

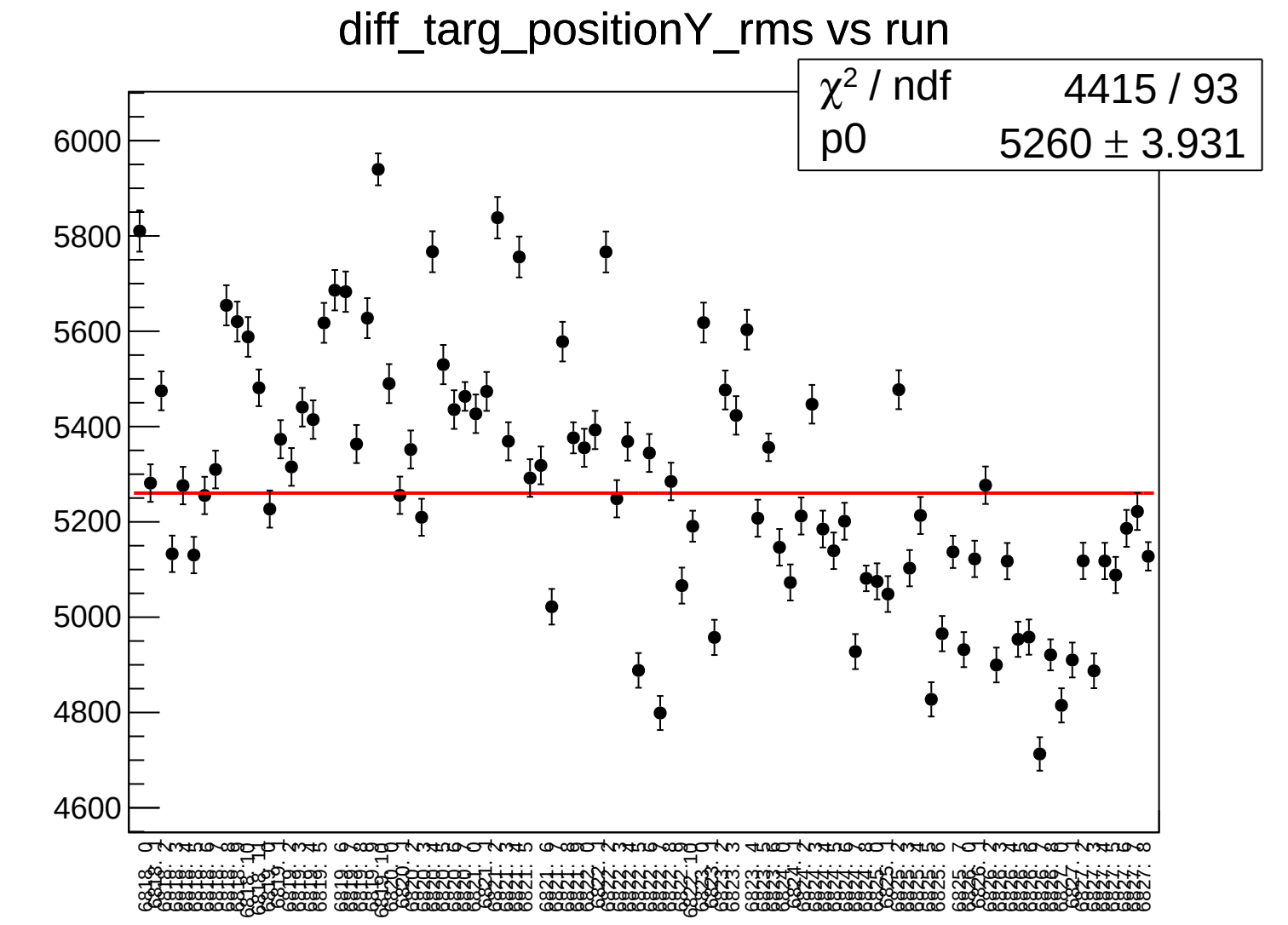

diff_targ_positionX_mean vs run
χ² / ndf 73.48 / 93
p0 −13.39 ± 9.594
pull
Entries 94
Mean −205.6
Std Dev 0

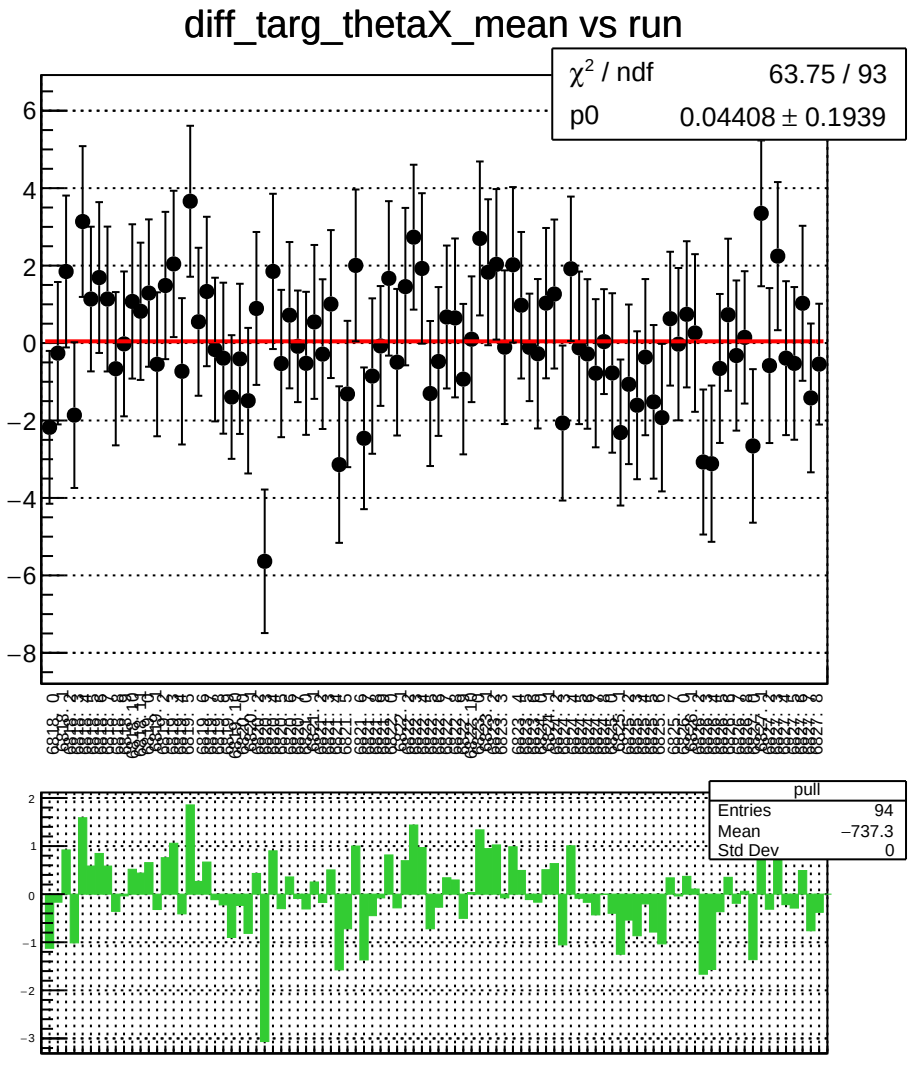

pull1D
Entries 94
Mean −0.008578
Std Dev 0.8841

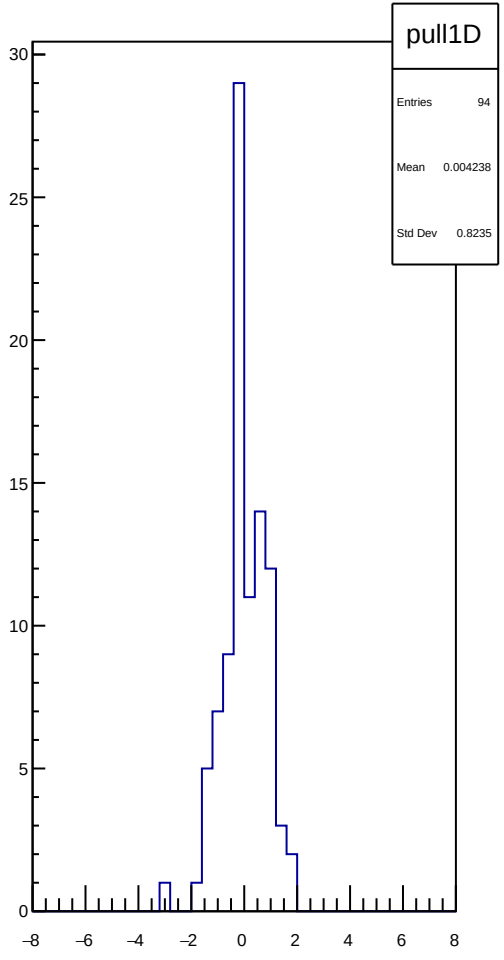

diff_targ_positionX_rms vs run
χ^2 / ndf 3174 / 93
p0 9081 ± 6.784
10000
9800
9600
9400
9200
9000
8800
8600
8400

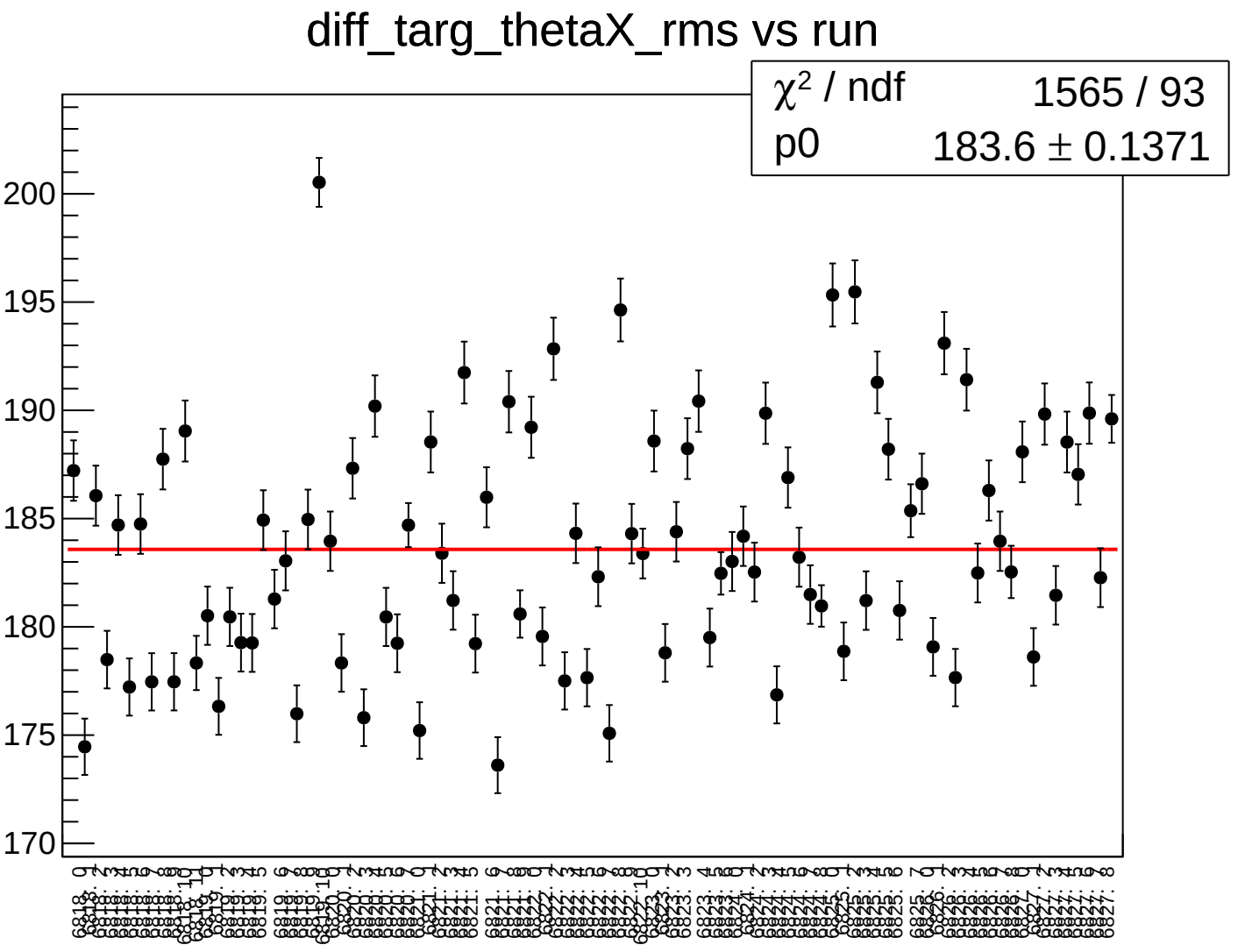

diff_targ_positionY_mean vs run
χ² / ndf 101 / 93
p0 −9.542 ± 5.559
pull
Entries 94
Mean −1.527e+04
Std Dev 0

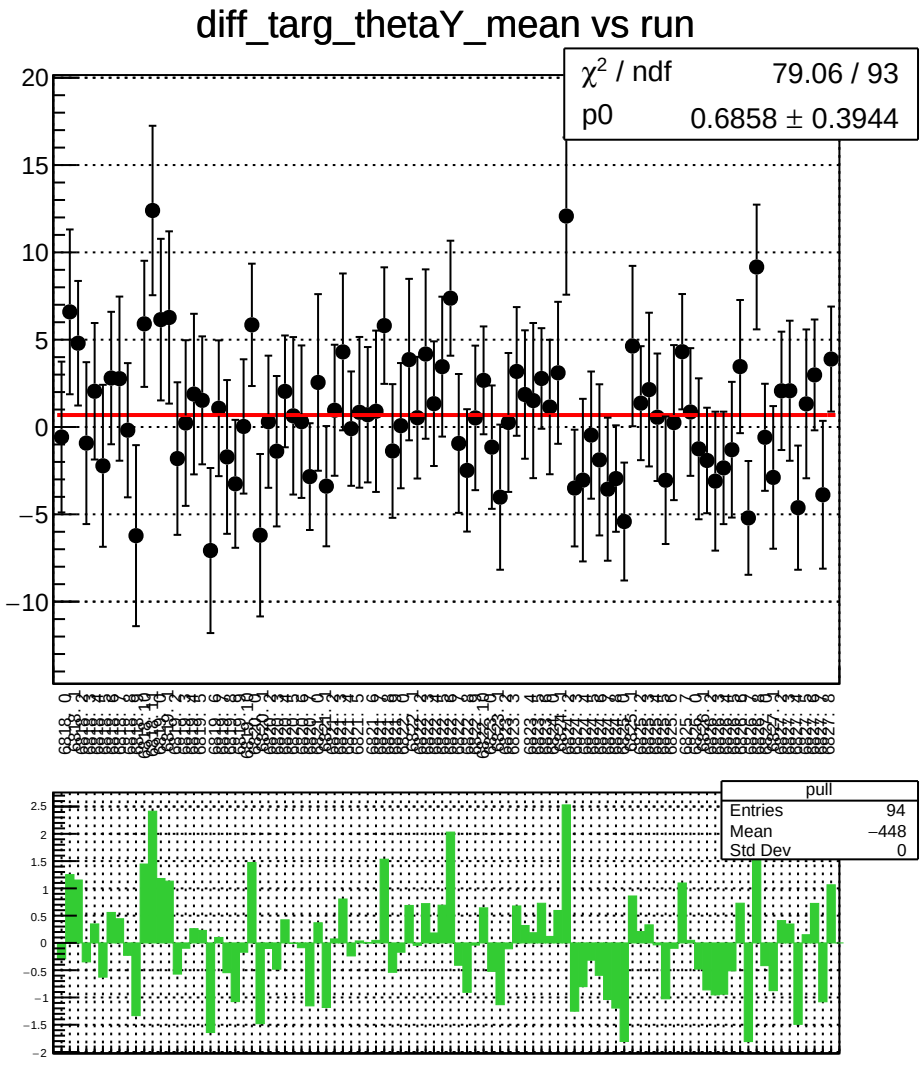

pull1D
Entries 94
Mean −7.947e−05
Std Dev 1.037

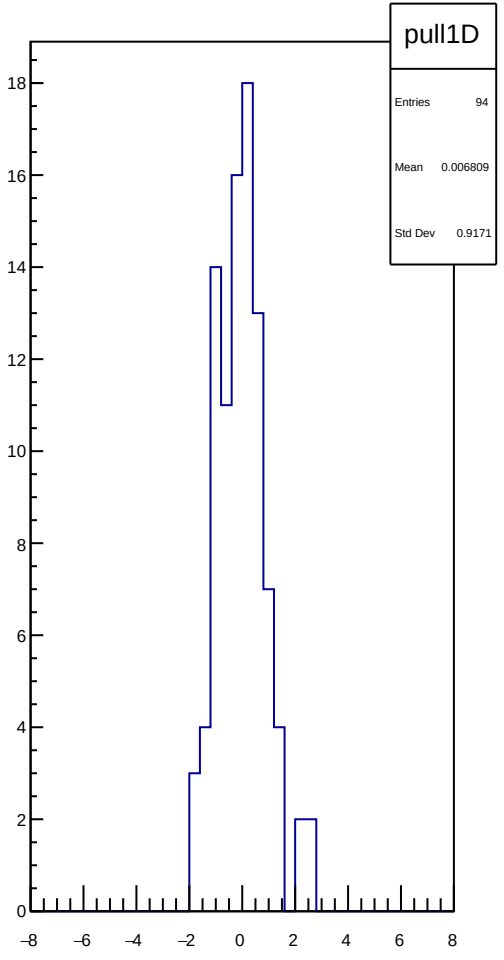

diff_targ_positionY_rms vs run
χ² / ndf 4415 / 93
p0 5260 ± 3.931
6000
5800
5600
5400
5200
5000
4800
4600

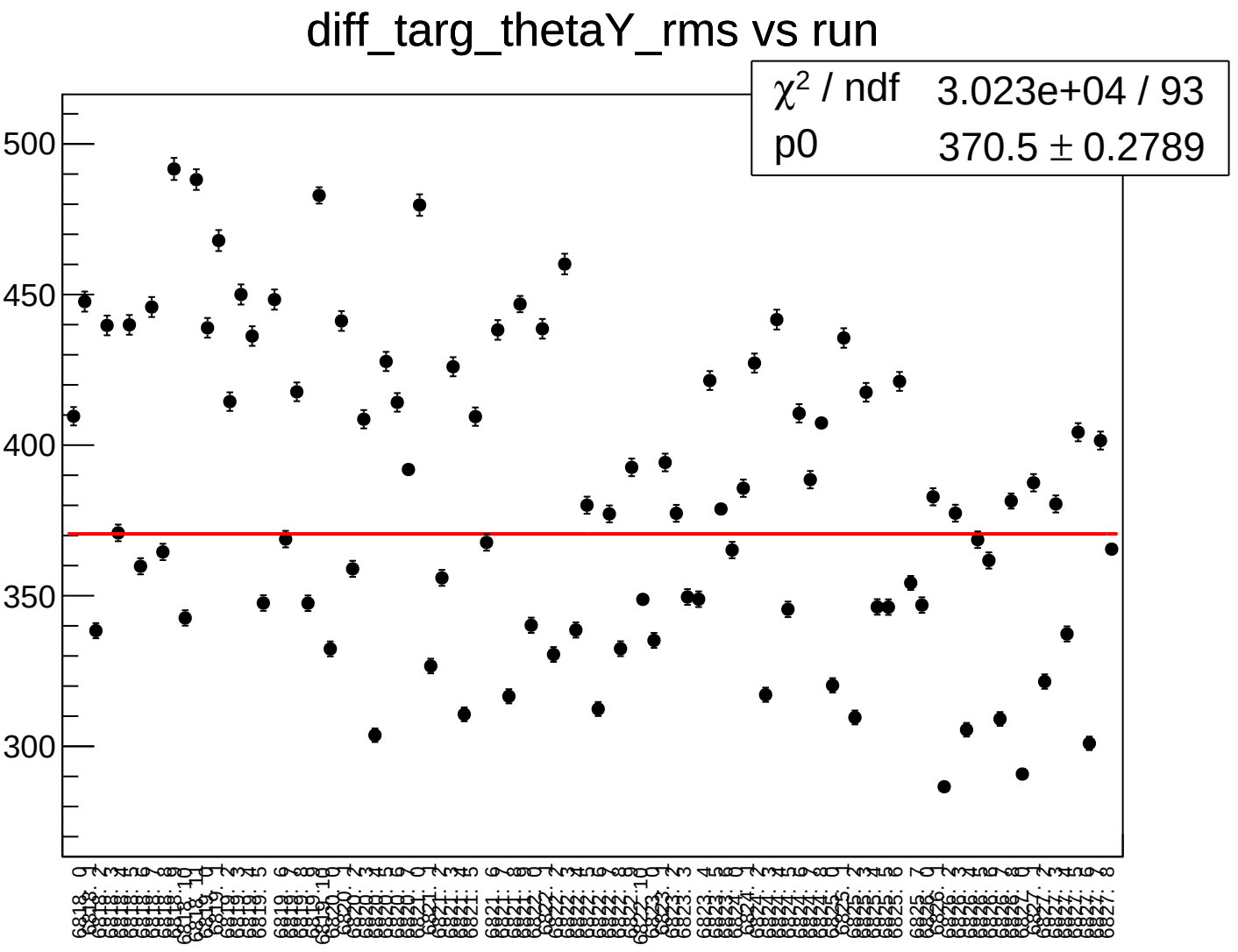

diff_targ_thetaX_mean vs run
χ² / ndf 63.75 / 93
p0 0.04408 ± 0.1939
pull
Entries 94
Mean −737.3
Std Dev 0

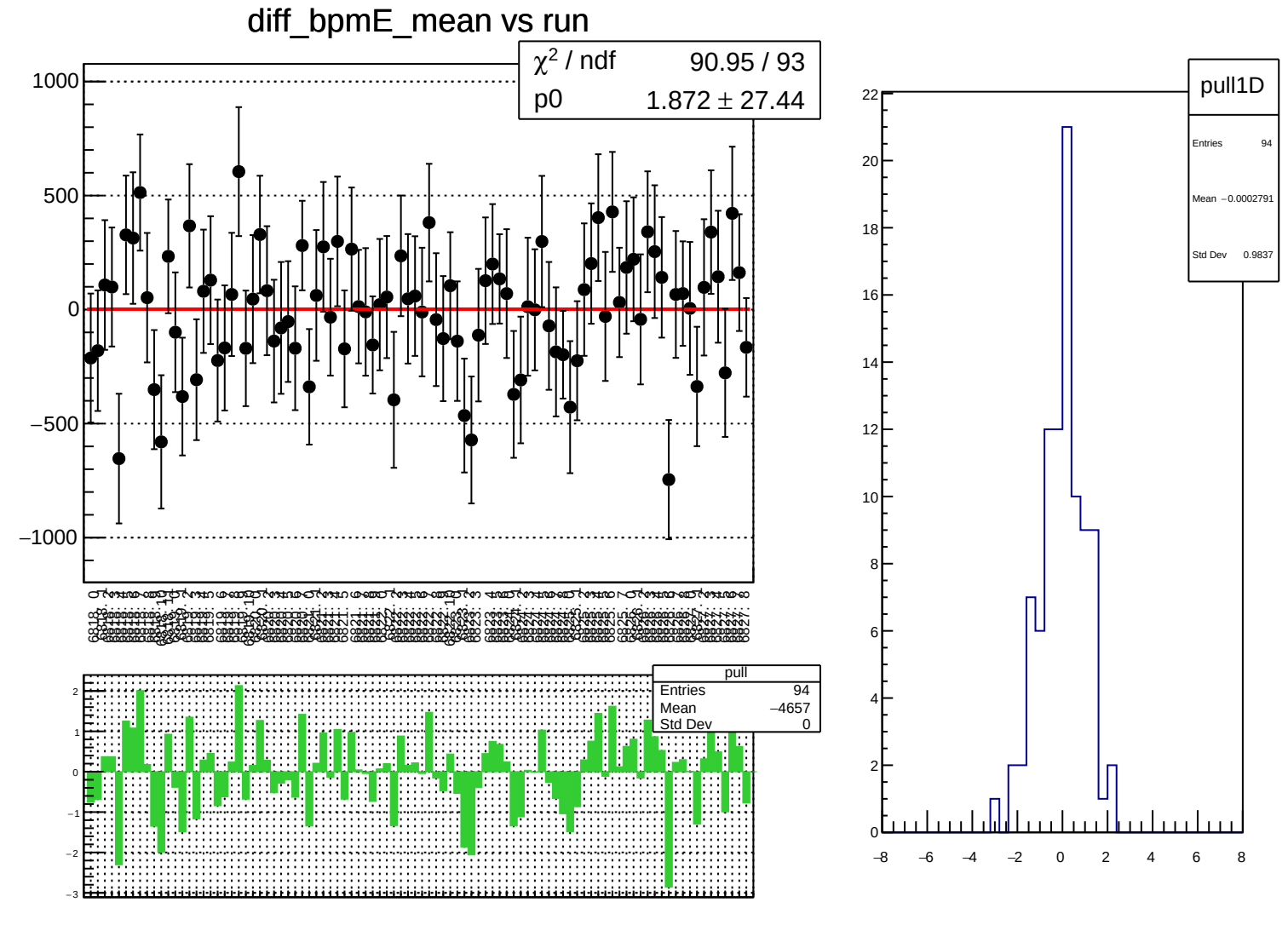

pull1D
Entries 94
Mean 0.004238
Std Dev 0.8235

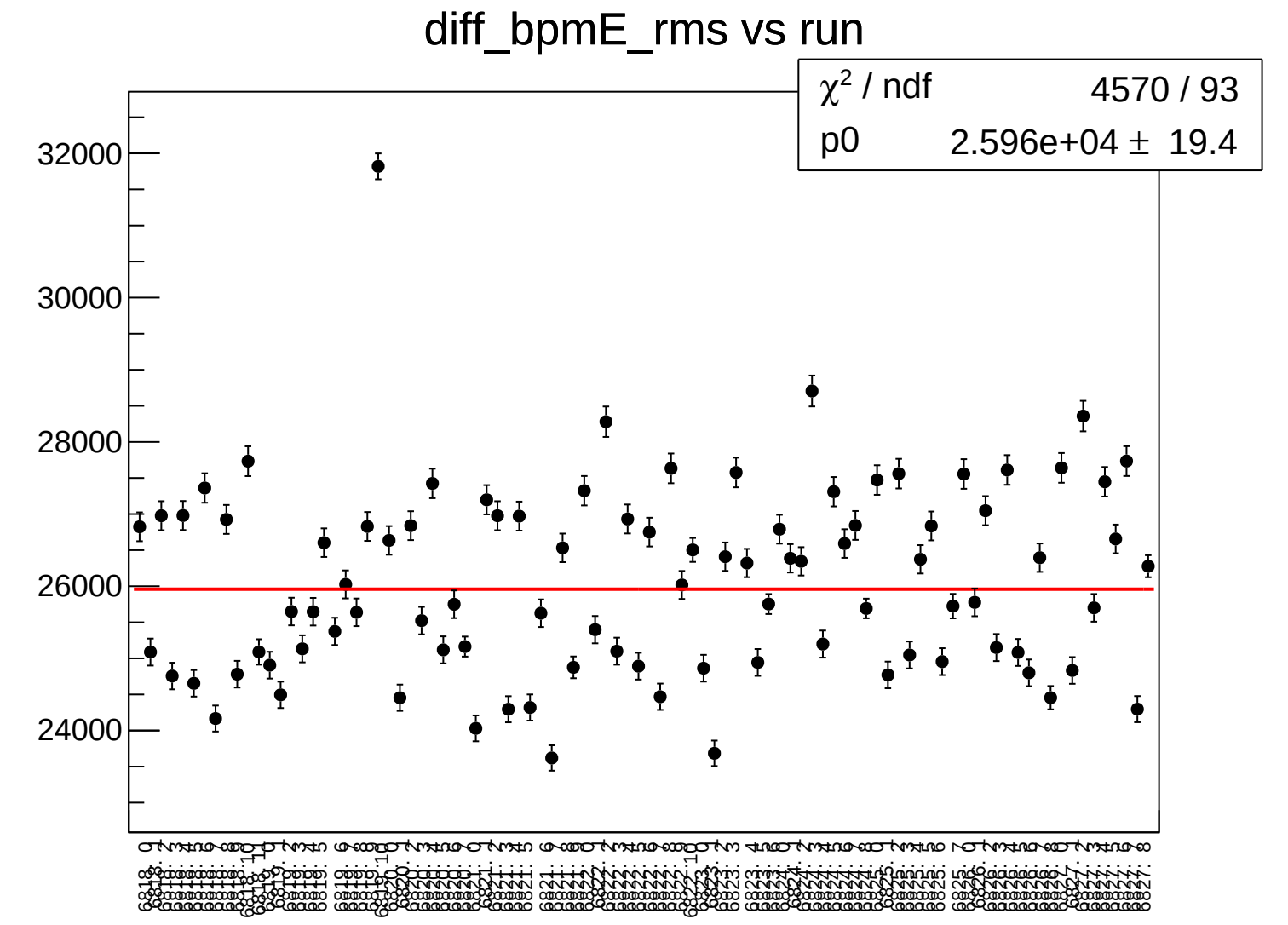

diff_targ_thetaX_rms vs run
χ² / ndf 1565 / 93
p0 183.6 ± 0.1371
200
195
190
185
180
175
170

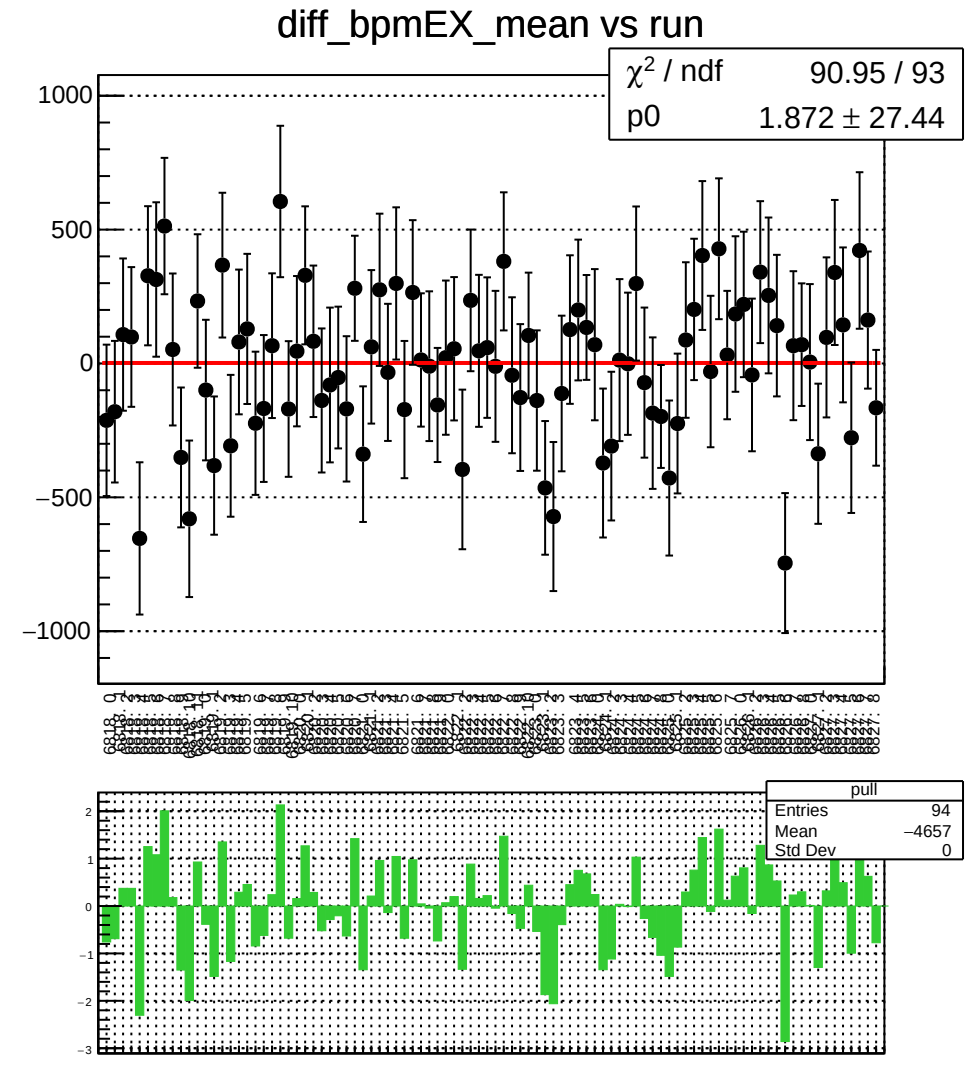

diff_targ_thetaY_mean vs run
χ² / ndf 79.06 / 93
p0 0.6858 ± 0.3944
pull
Entries 94
Mean −448
Std Dev 0

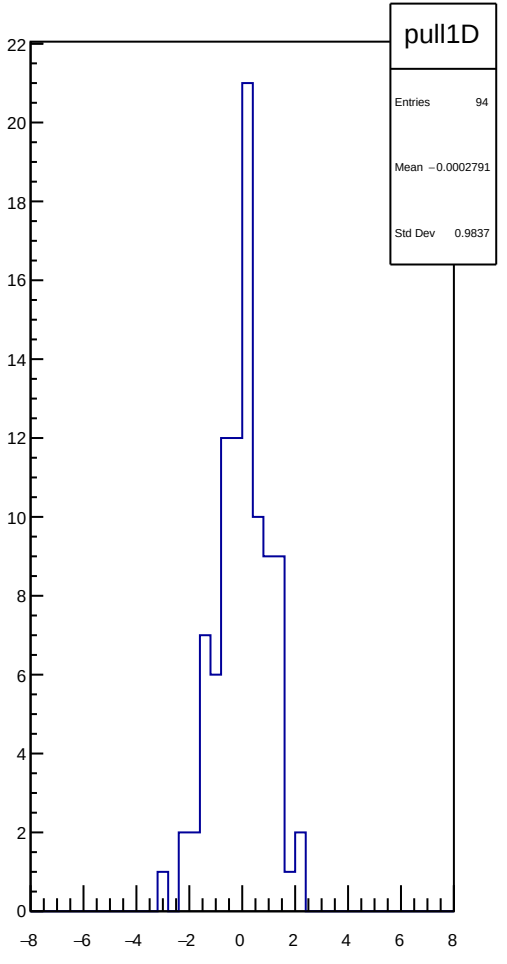

pull1D
Entries 94
Mean 0.006809
Std Dev 0.9171

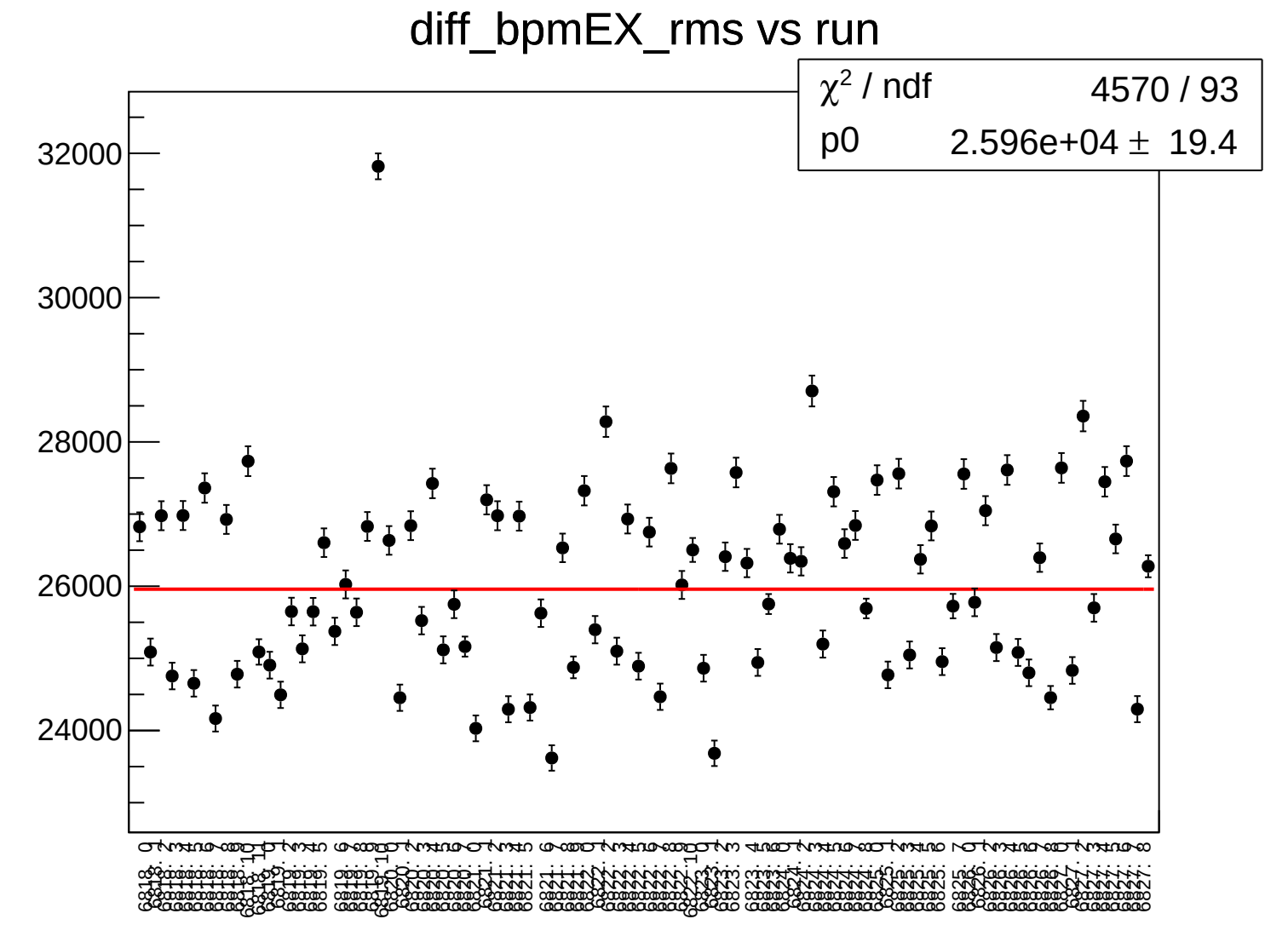

diff_targ_thetaY_rms vs run
χ² / ndf 3.023e+04 / 93
p0 370.5 ± 0.2789
500
450
400
350
300

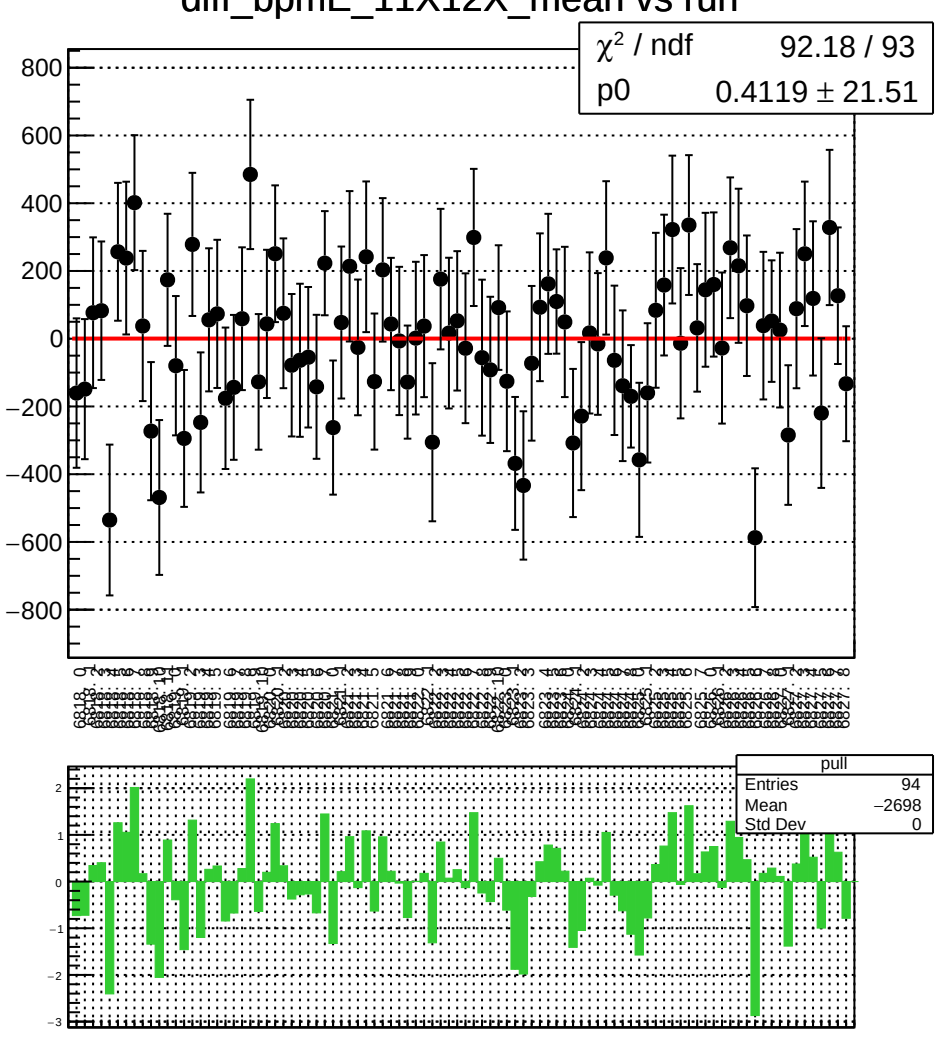

diff_bpmE_mean vs run
χ^2 / ndf 90.95 / 93
p0 1.872 ± 27.44
1000
500
0
−500
−1000
pull
Entries 94
Mean −4657
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0002791
Std Dev 0.9837
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

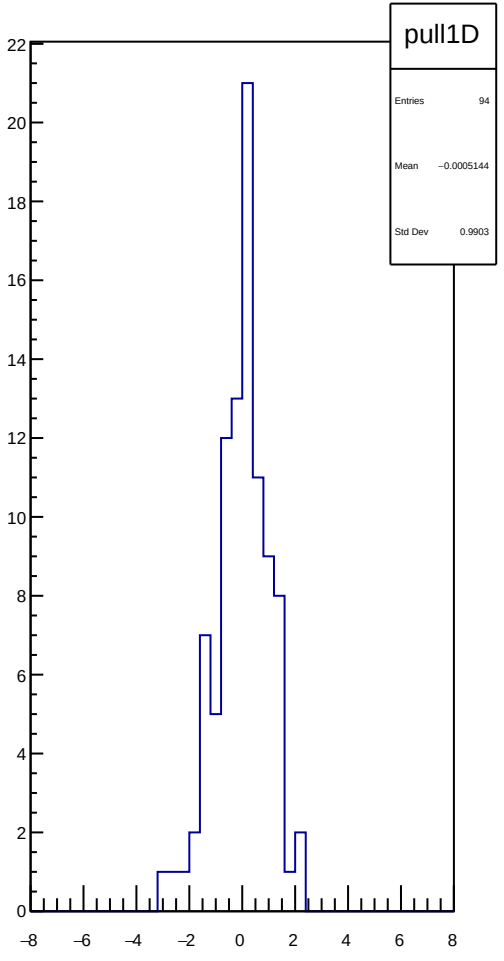

diff_bpmE_rms vs run
χ² / ndf 4570 / 93
p0 2.596e+04 ± 19.4
32000
30000
28000
26000
24000

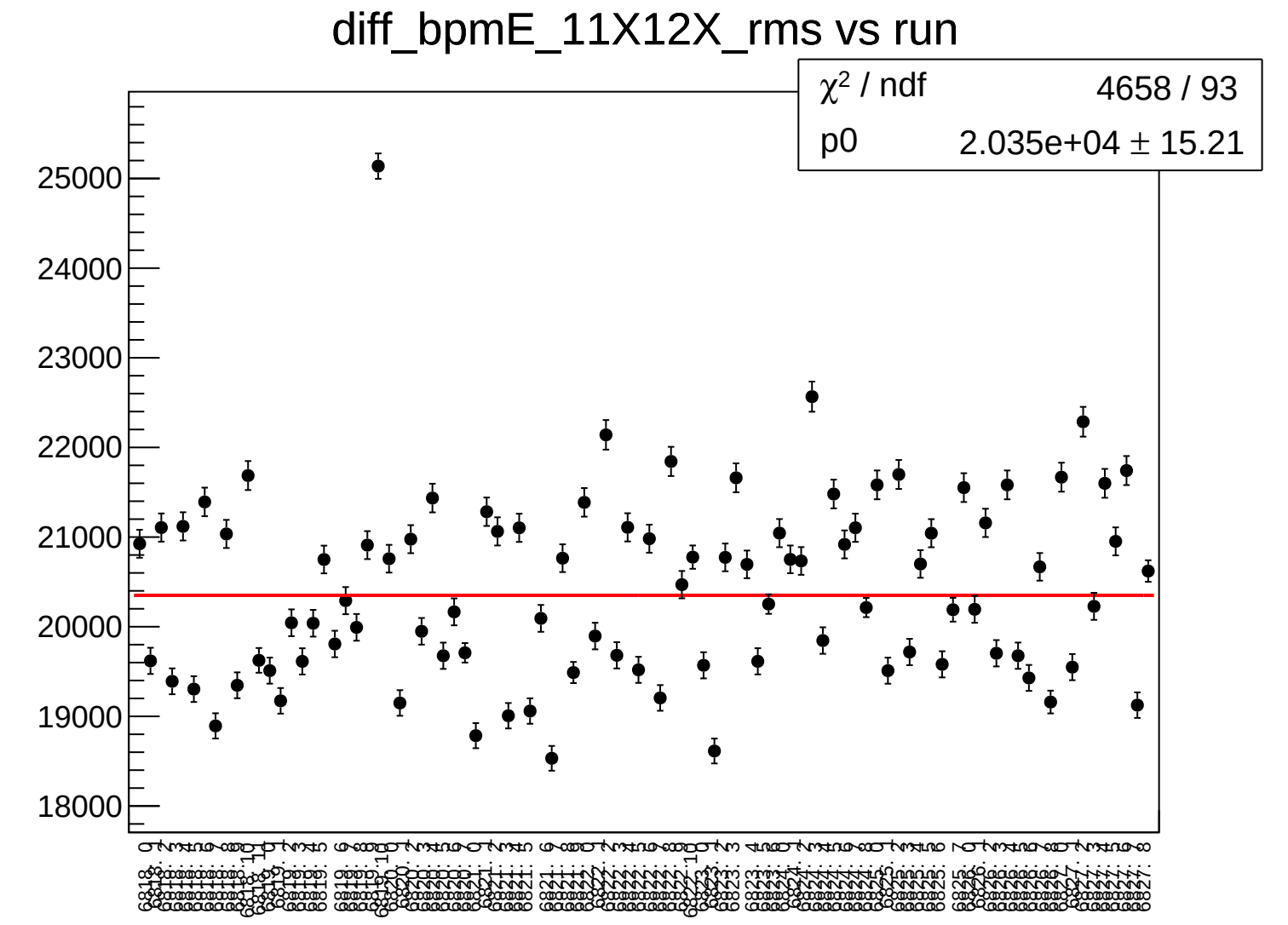

diff_bpmEX_mean vs run
χ² / ndf 90.95 / 93
p0 1.872 ± 27.44
1000
500
0
−500
−1000
pull
Entries 94
Mean −4657
Std Dev 0
2
1
0
−1
−2
−3

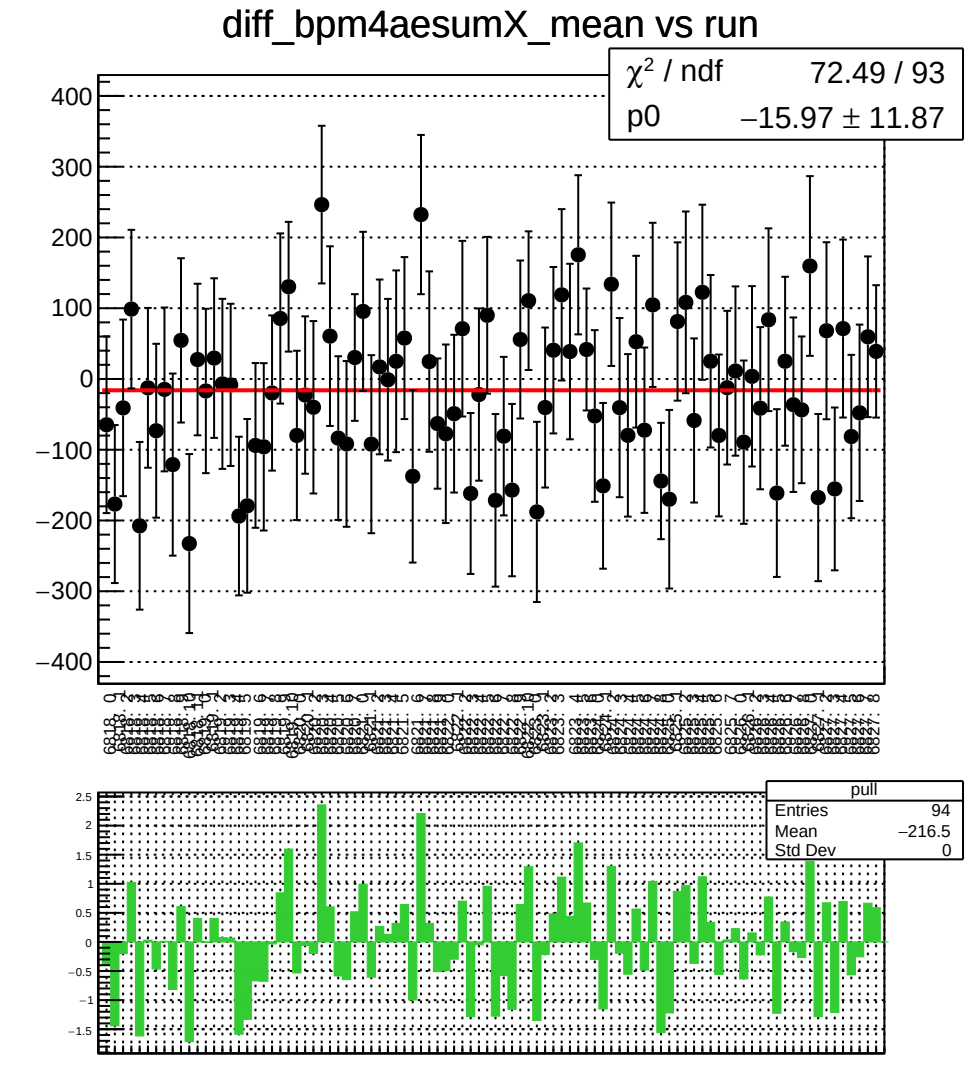

pull1D
Entries 94
Mean −0.0002791
Std Dev 0.9837
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

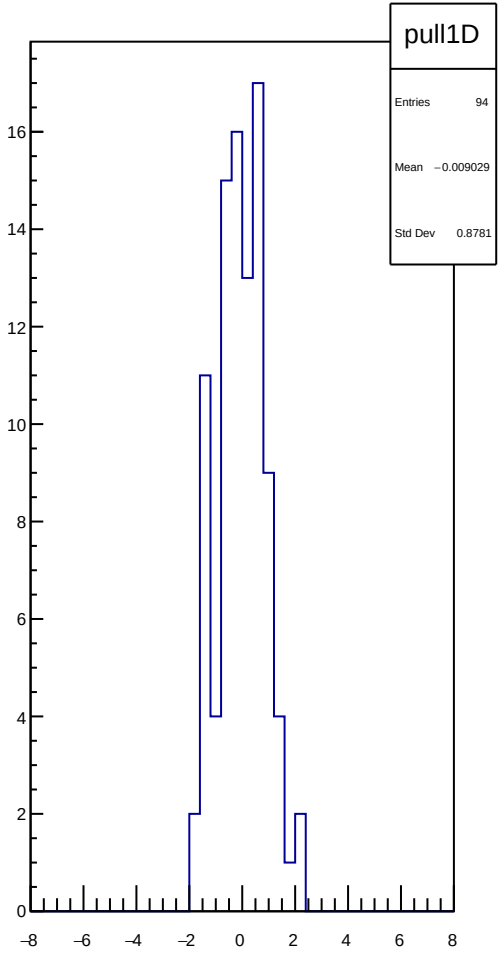

diff_bpmEX_rms vs run
χ² / ndf 4570 / 93
p0 2.596e+04 ± 19.4
32000
30000
28000
26000
24000

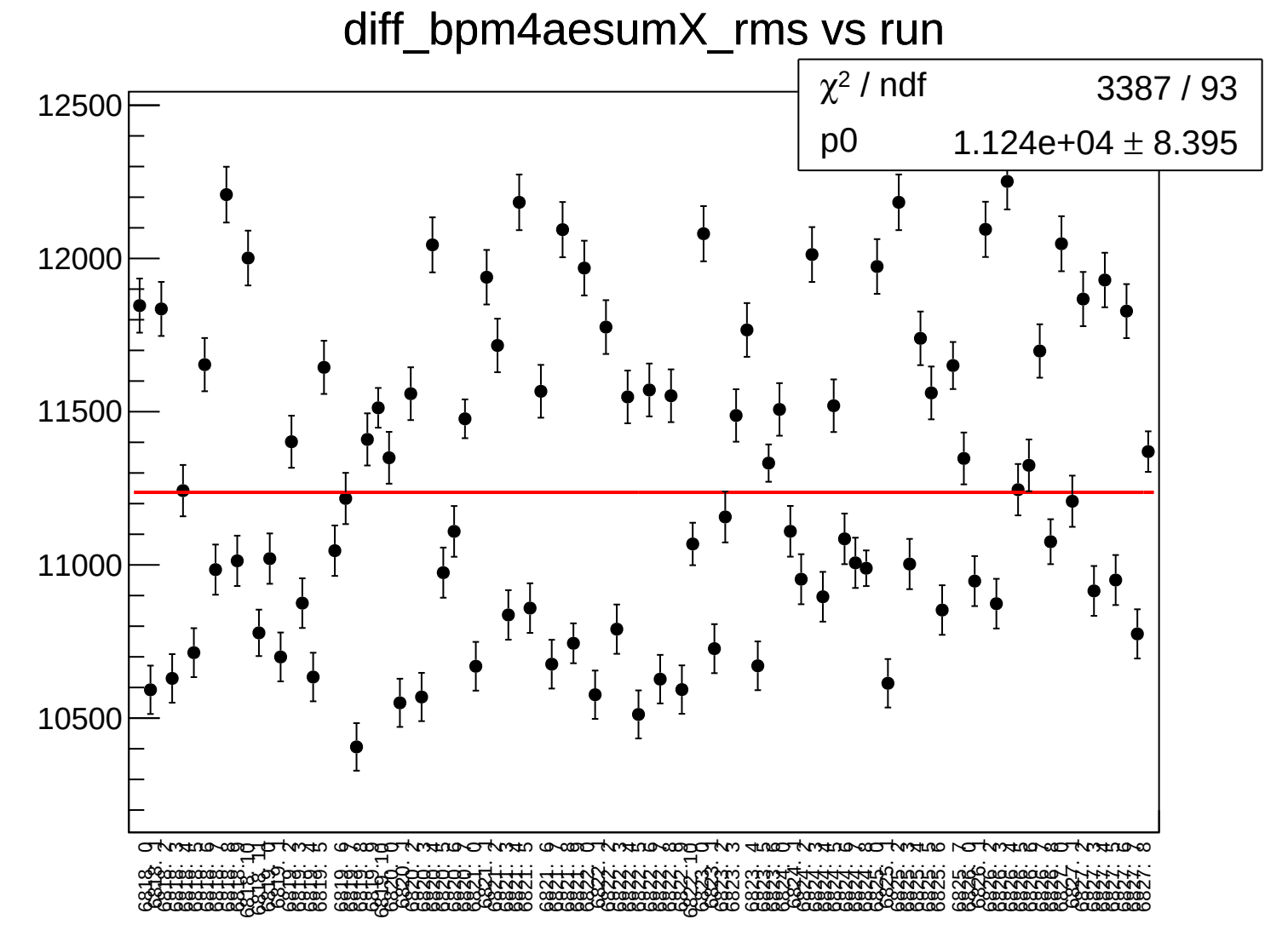

diff_bpmE_11X12X_mean vs run
χ² / ndf 92.18 / 93
p0 0.4119 ± 21.51
pull
Entries 94
Mean −2698
Std Dev 0

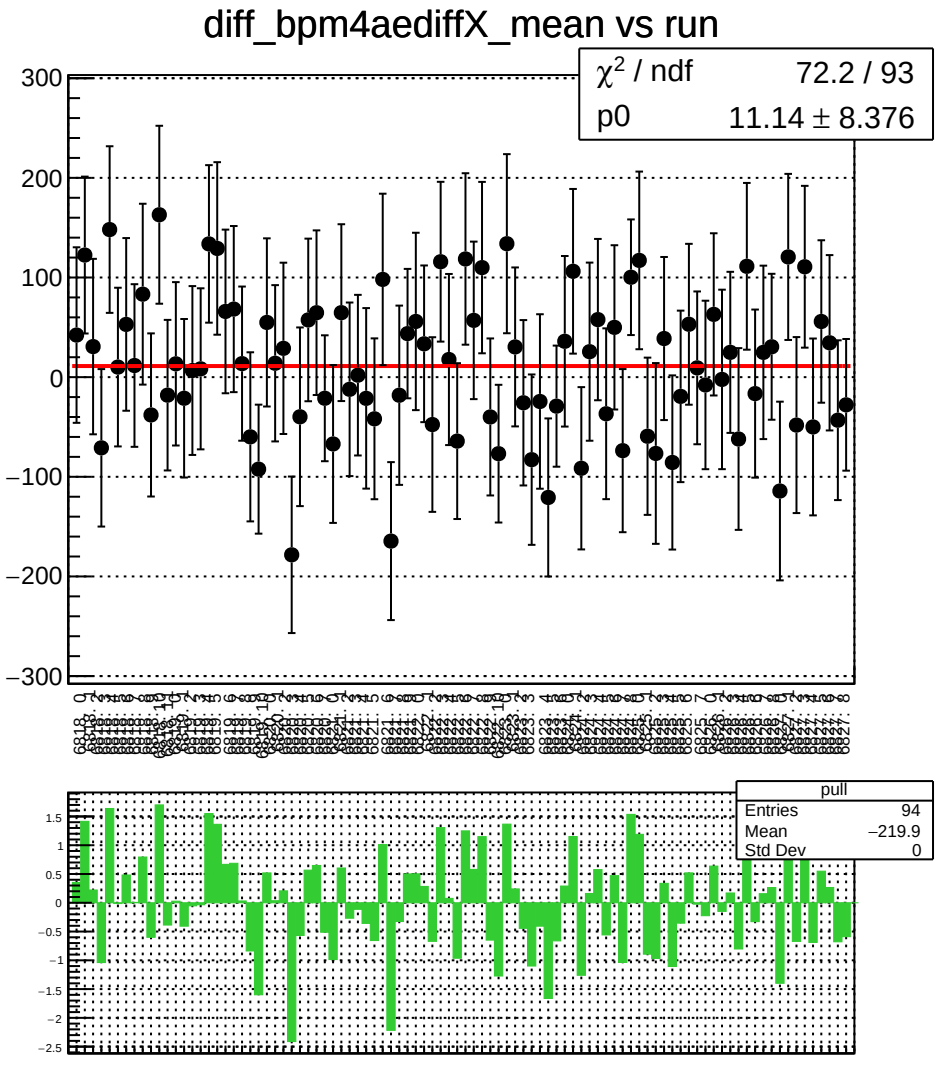

pull1D
Entries 94
Mean −0.0005144
Std Dev 0.9903

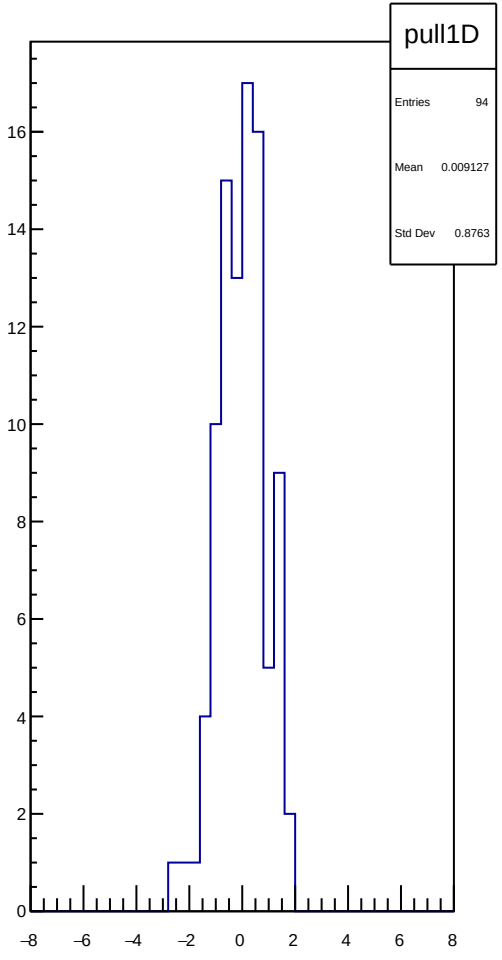

diff_bpmE_11X12X_rms vs run
χ² / ndf 4658 / 93
p0 2.035e+04 ± 15.21
25000
24000
23000
22000
21000
20000
19000
18000

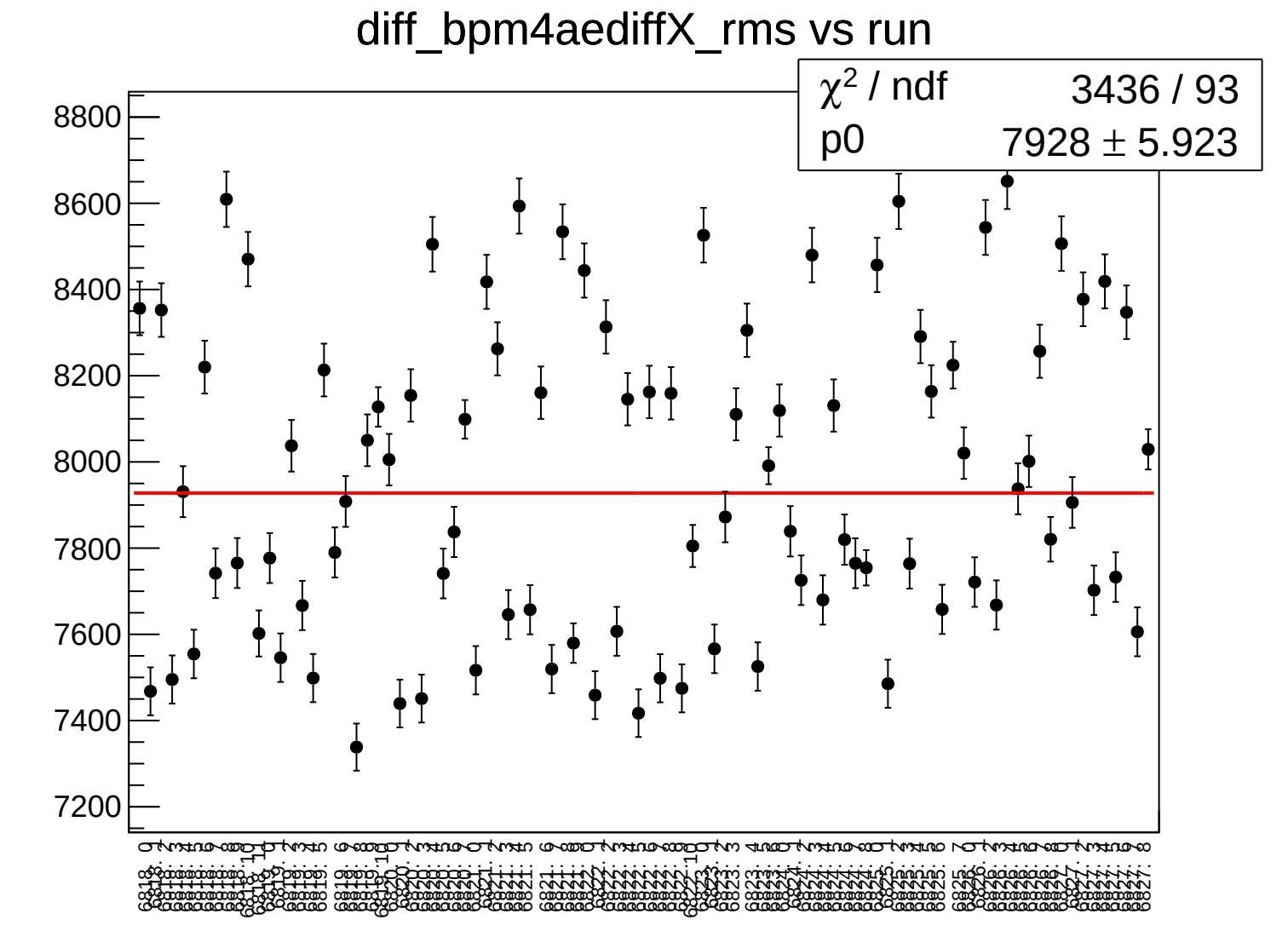

diff_bpm4aesumX_mean vs run
χ² / ndf 72.49 / 93
p0 −15.97 ± 11.87
pull
Entries 94
Mean −216.5
Std Dev 0

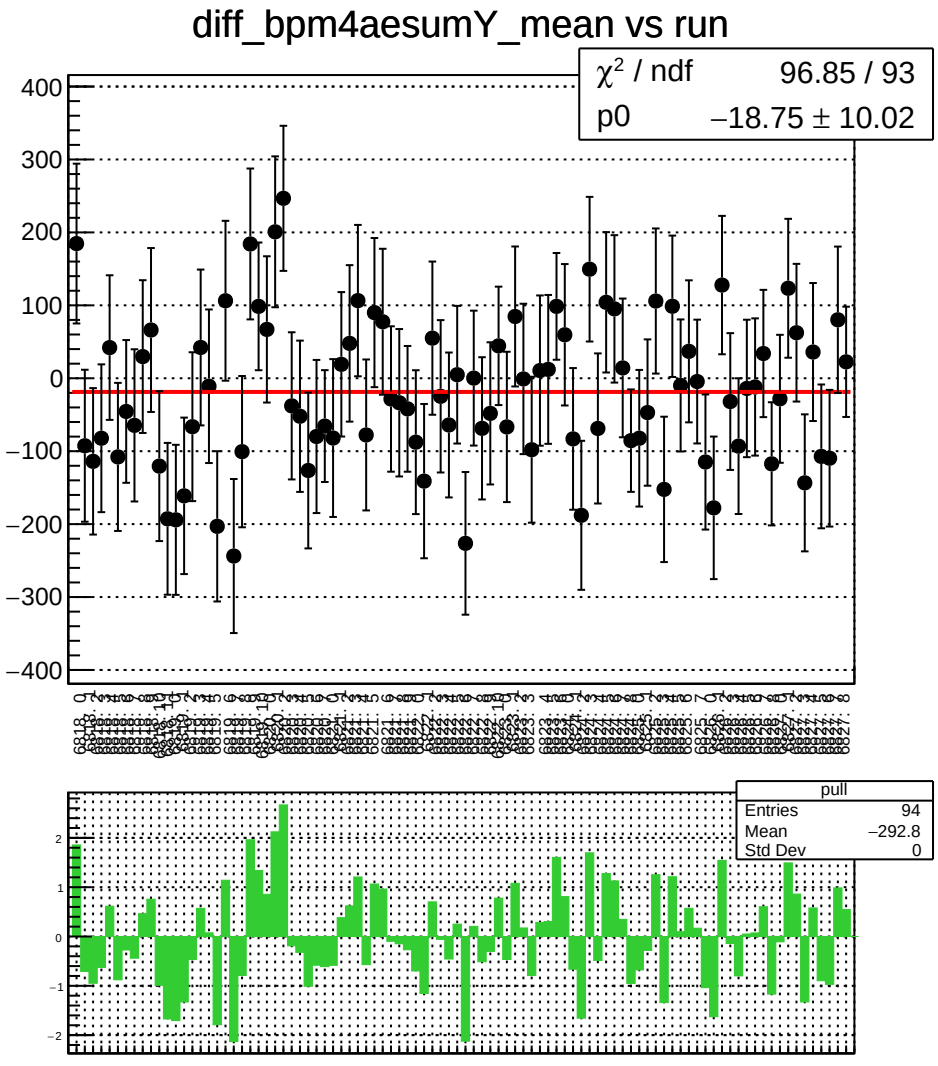

pull1D
Entries 94
Mean −0.009029
Std Dev 0.8781

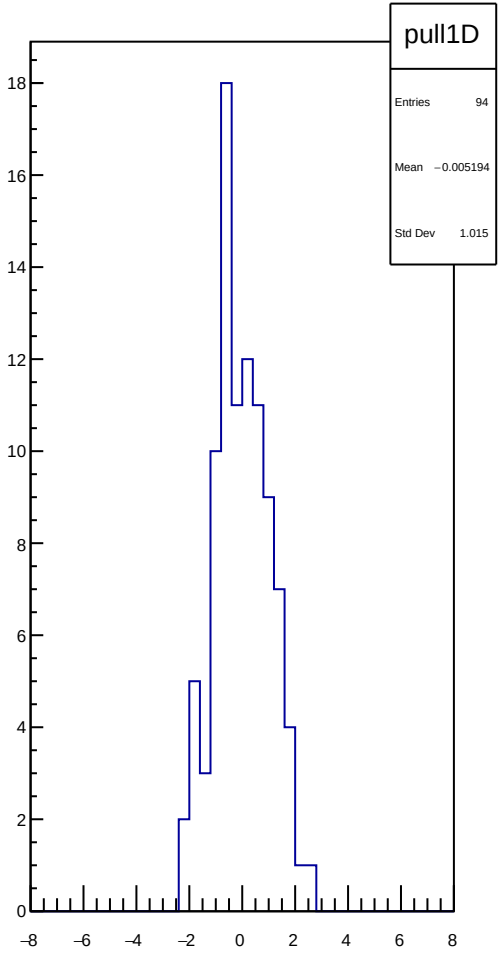

diff_bpm4aesumX_rms vs run
χ² / ndf 3387 / 93
p0 1.124e+04 ± 8.395
12500
12000
11500
11000
10500

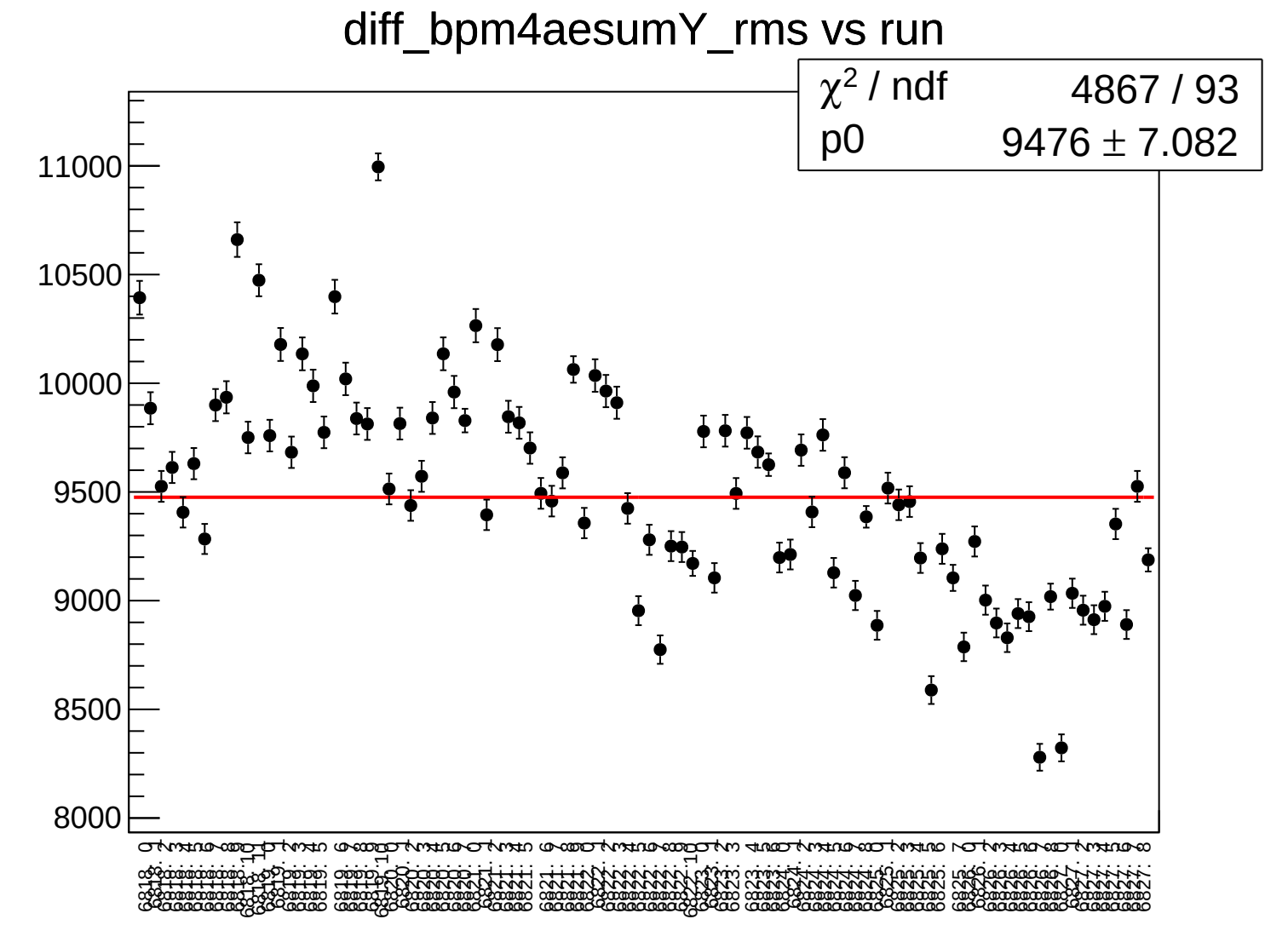

diff_bpm4aediffX_mean vs run
χ² / ndf 72.2 / 93
p0 11.14 ± 8.376
pull
Entries 94
Mean −219.9
Std Dev 0

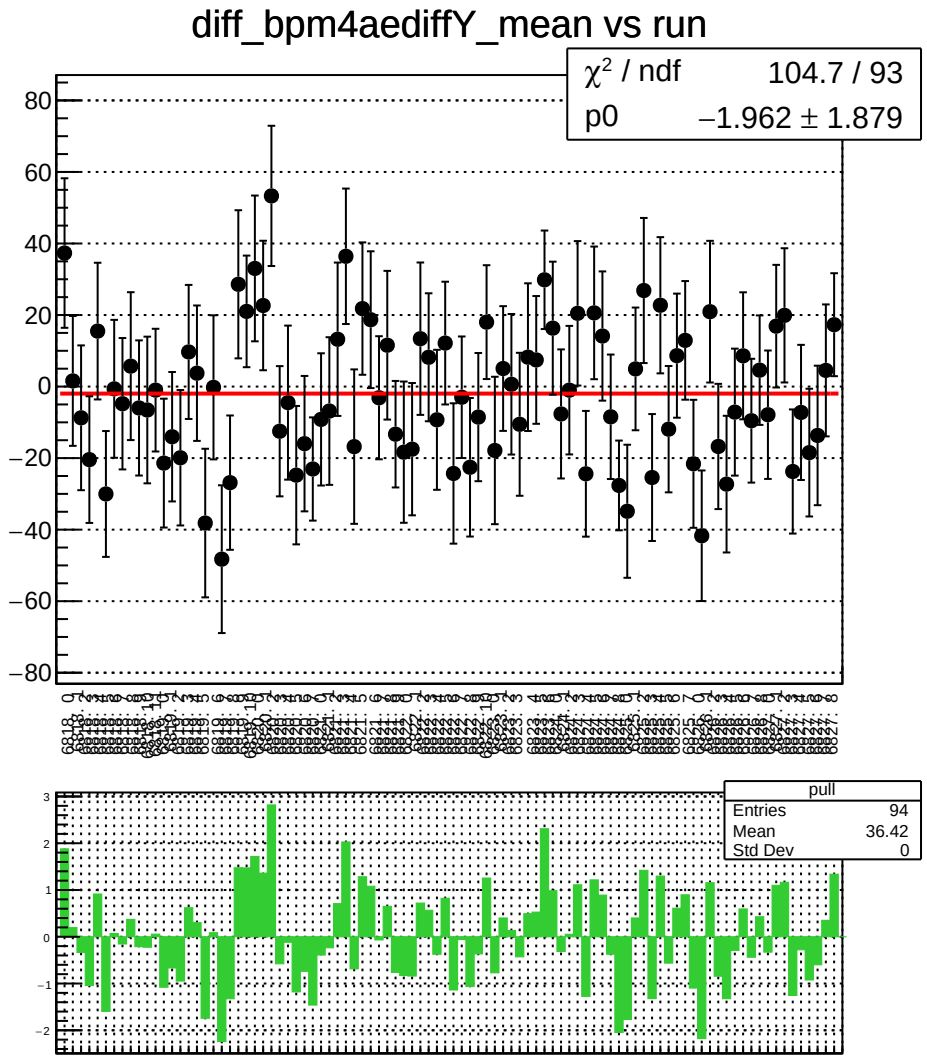

pull1D
Entries 94
Mean 0.009127
Std Dev 0.8763

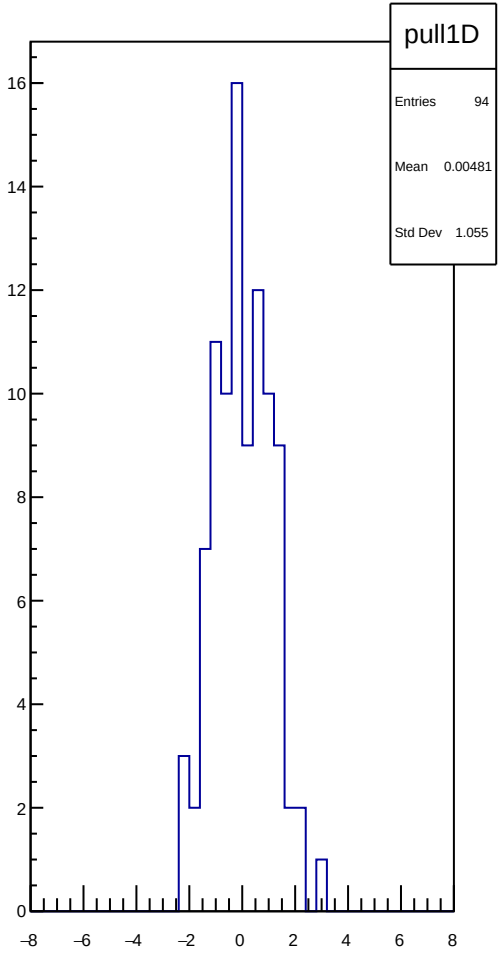

diff_bpm4aediffX_rms vs run
χ² / ndf 3436 / 93
p0 7928 ± 5.923
8800
8600
8400
8200
8000
7800
7600
7400
7200

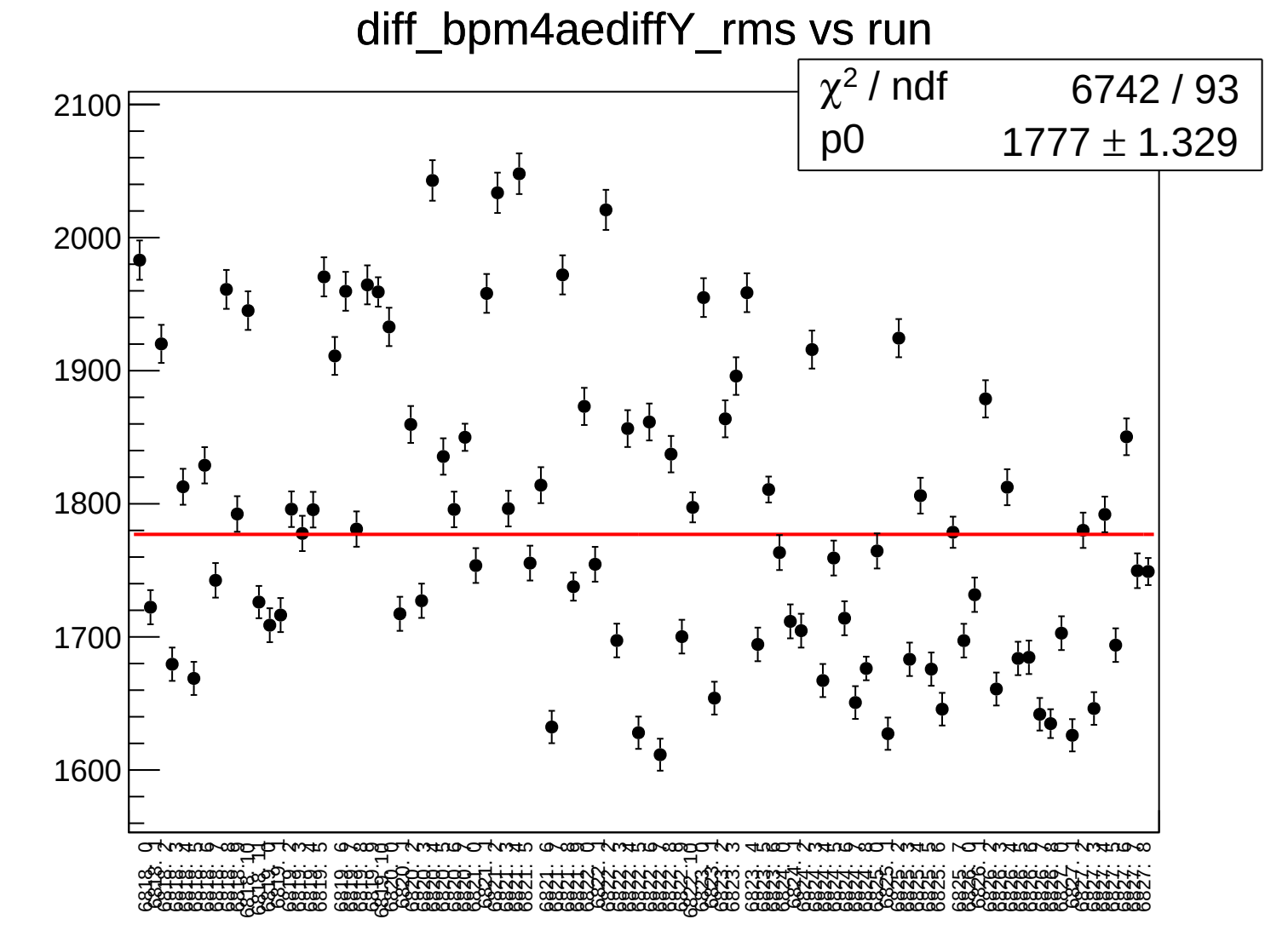

diff_bpm4aesumY_mean vs run
χ² / ndf 96.85 / 93
p0 −18.75 ± 10.02
pull
Entries 94
Mean −292.8
Std Dev 0

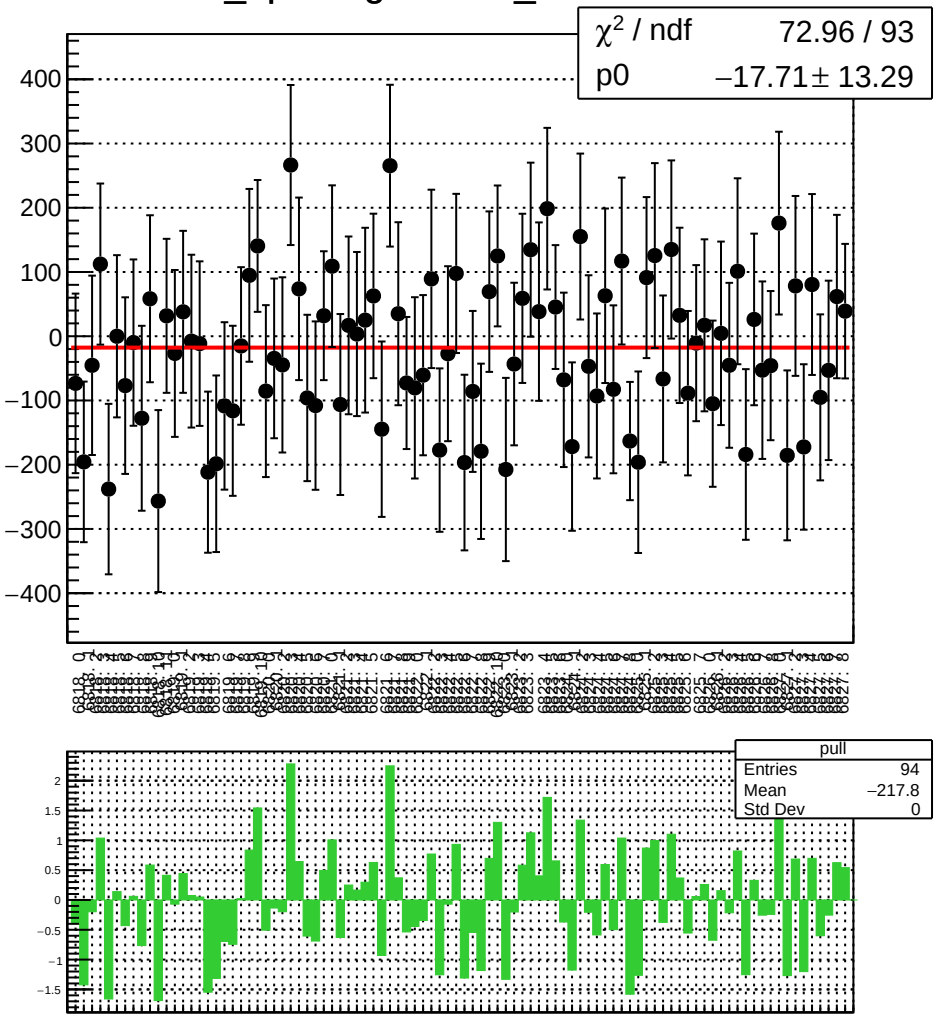

pull1D
Entries 94
Mean −0.005194
Std Dev 1.015

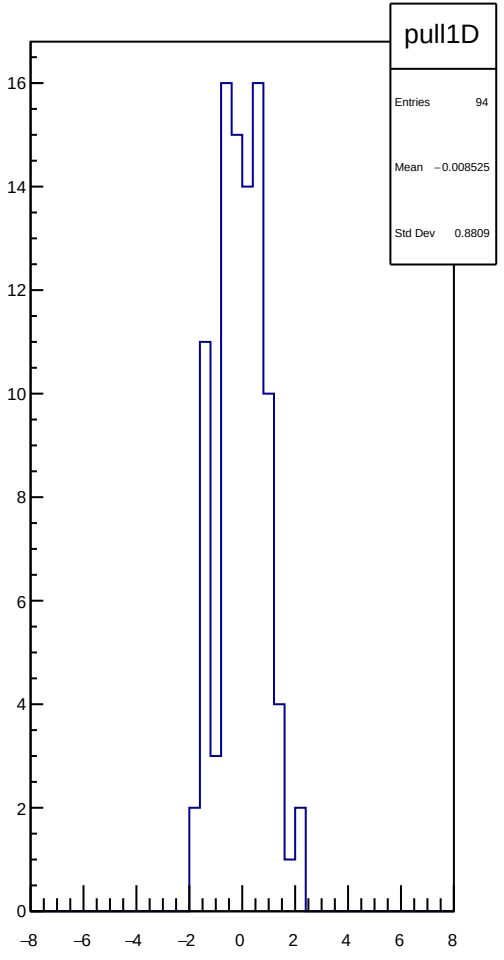

diff_bpm4aesumY_rms vs run
χ² / ndf 4867 / 93
p0 9476 ± 7.082
11000
10500
10000
9500
9000
8500
8000

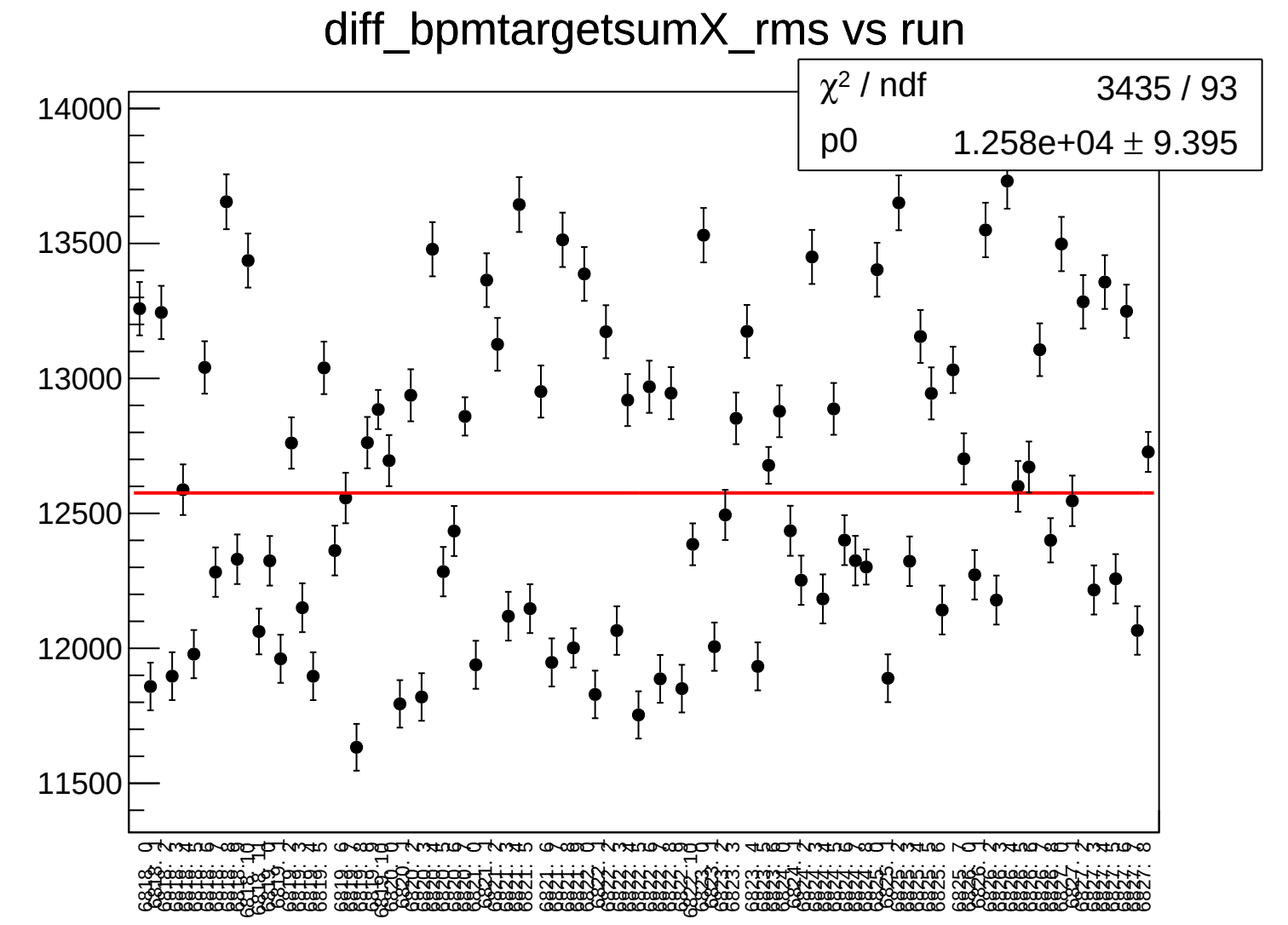

diff_bpm4aediffY_mean vs run
χ² / ndf 104.7 / 93
p0 −1.962 ± 1.879
pull
Entries 94
Mean 36.42
Std Dev 0

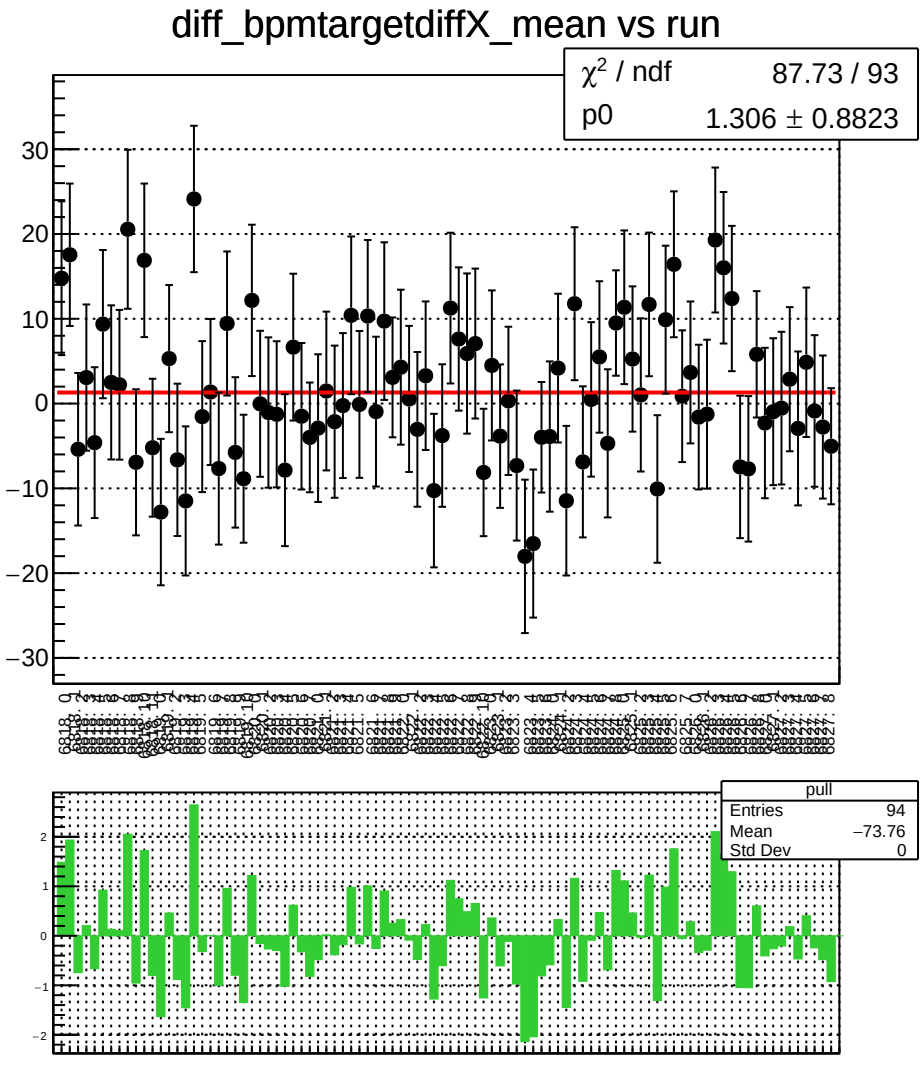

pull1D
Entries 94
Mean 0.00481
Std Dev 1.055

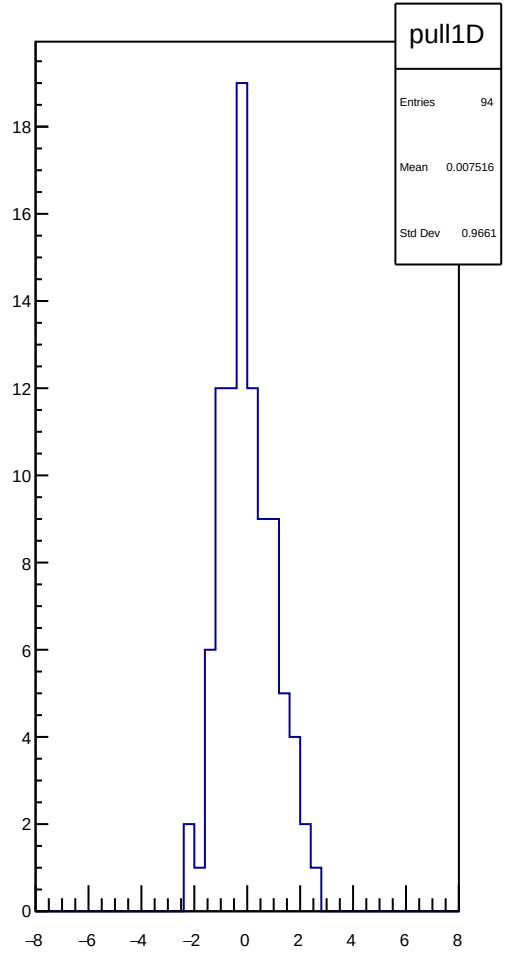

diff_bpm4aediffY_rms vs run
χ² / ndf 6742 / 93
p0 1777 ± 1.329
2100
2000
1900
1800
1700
1600

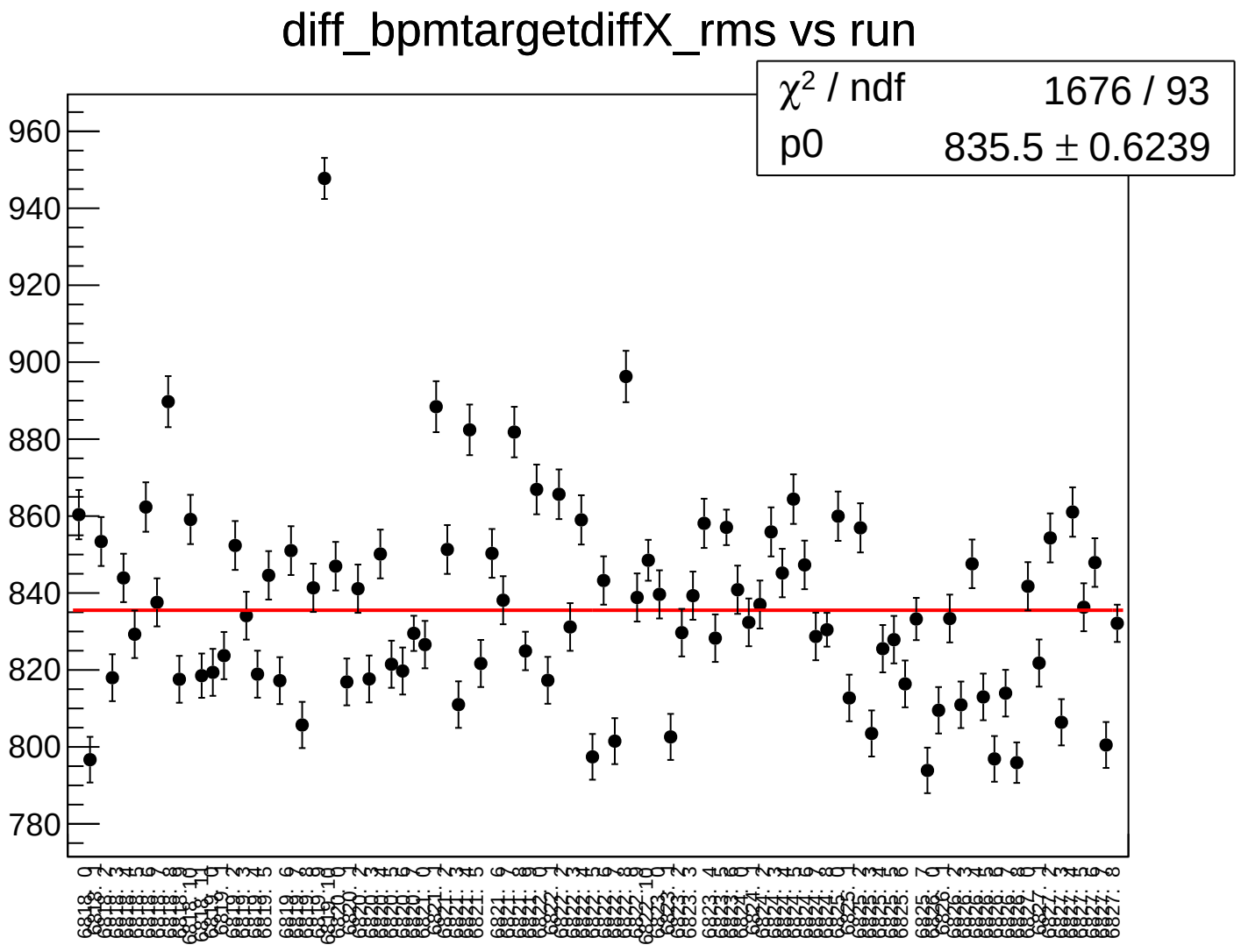

diff_bpmtargetsumX_mean vs run
χ² / ndf 72.96 / 93
p0 −17.71± 13.29
pull
Entries 94
Mean −217.8
Std Dev 0

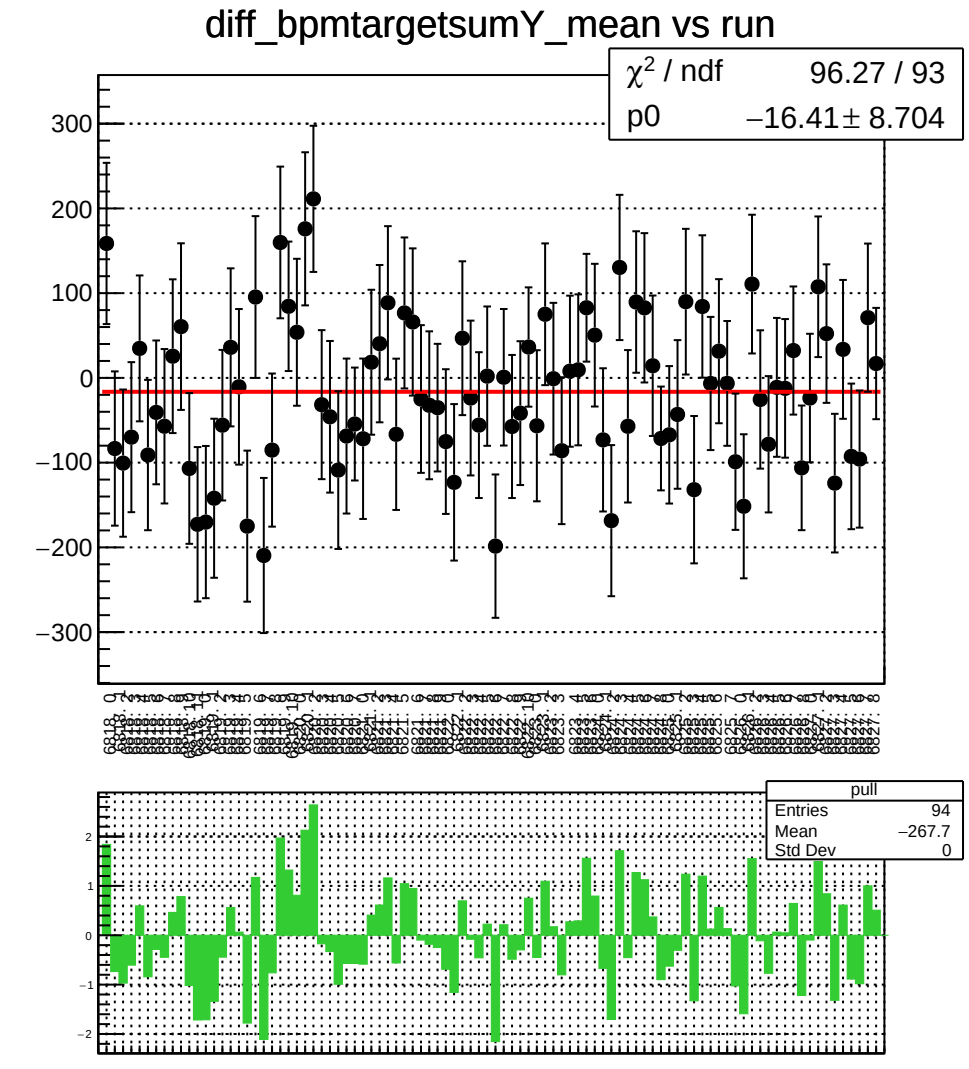

pull1D
Entries 94
Mean −0.008525
Std Dev 0.8809

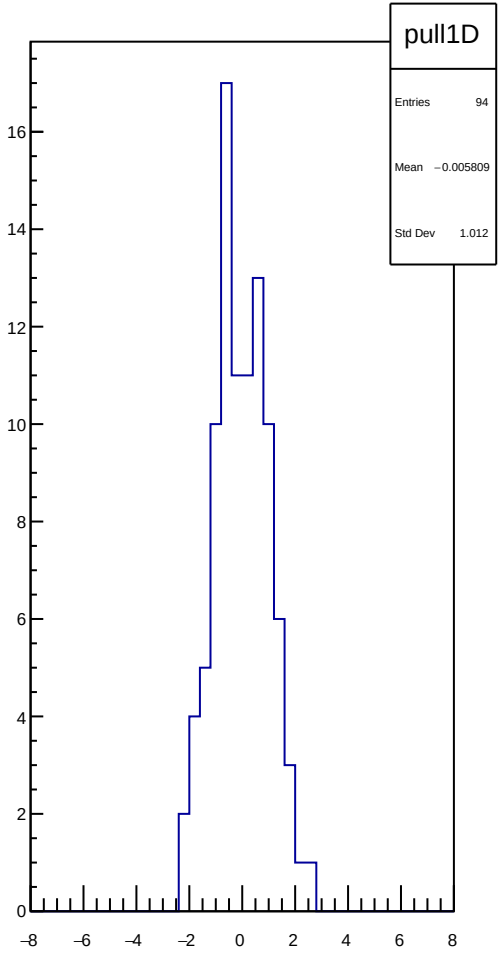

diff_bpmtargetsumX_rms vs run
χ² / ndf 3435 / 93
p0 1.258e+04 ± 9.395
14000
13500
13000
12500
12000
11500

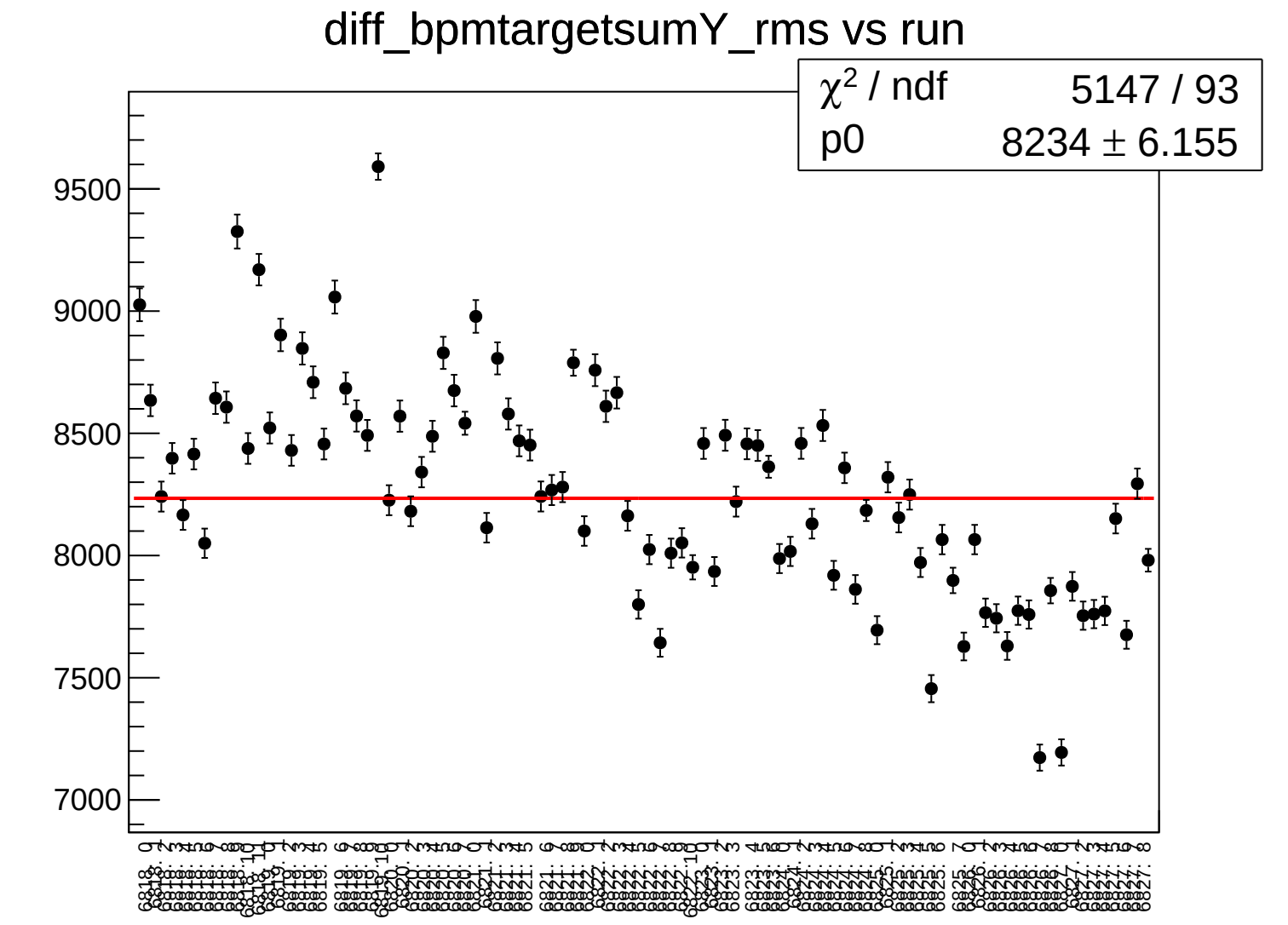

diff_bpmtargetdiffX_mean vs run
χ² / ndf 87.73 / 93
p0 1.306 ± 0.8823
pull
Entries 94
Mean −73.76
Std Dev 0

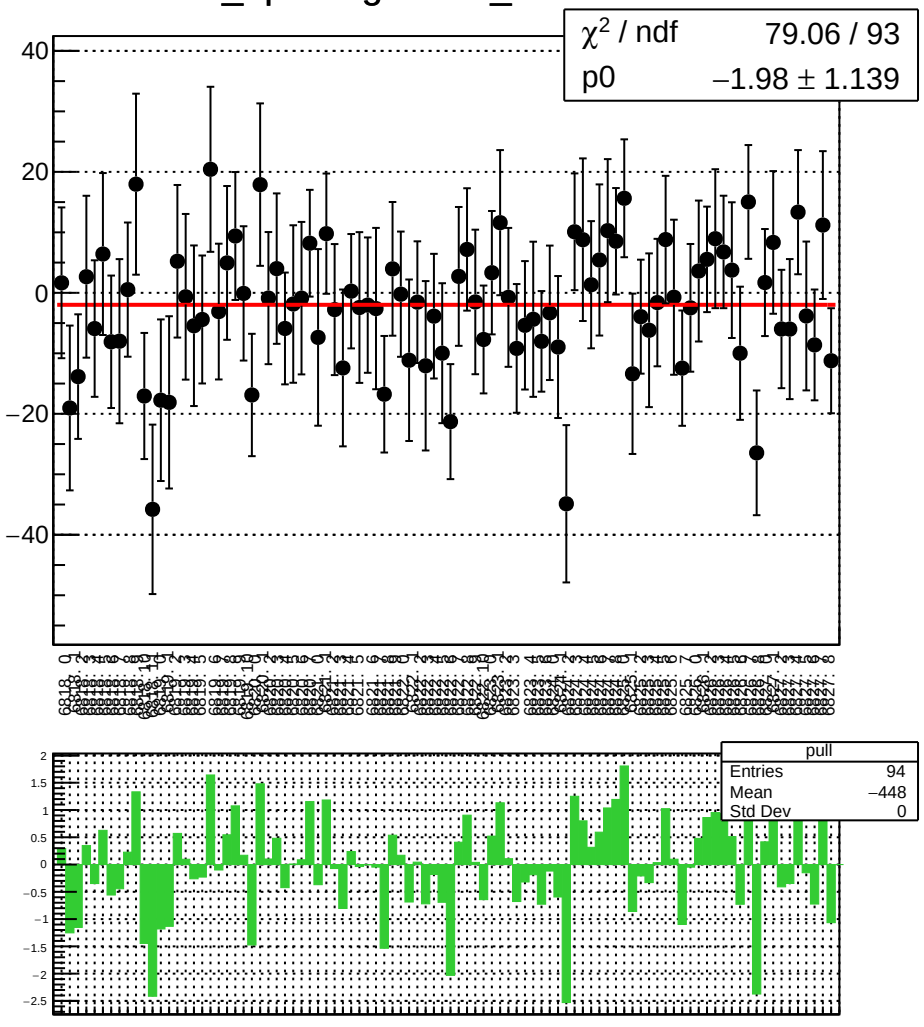

pull1D
Entries 94
Mean 0.007516
Std Dev 0.9661

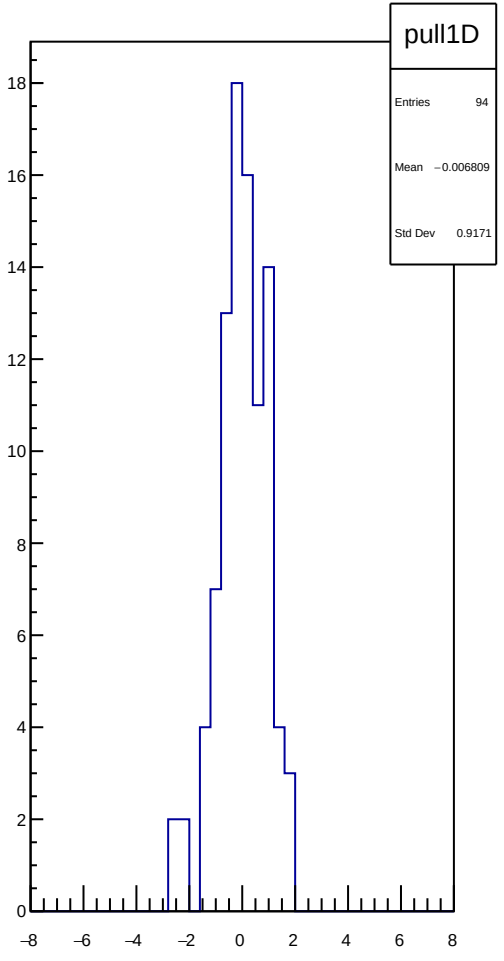

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1676 / 93
p0 835.5 ± 0.6239
960
940
920
900
880
860
840
820
800
780

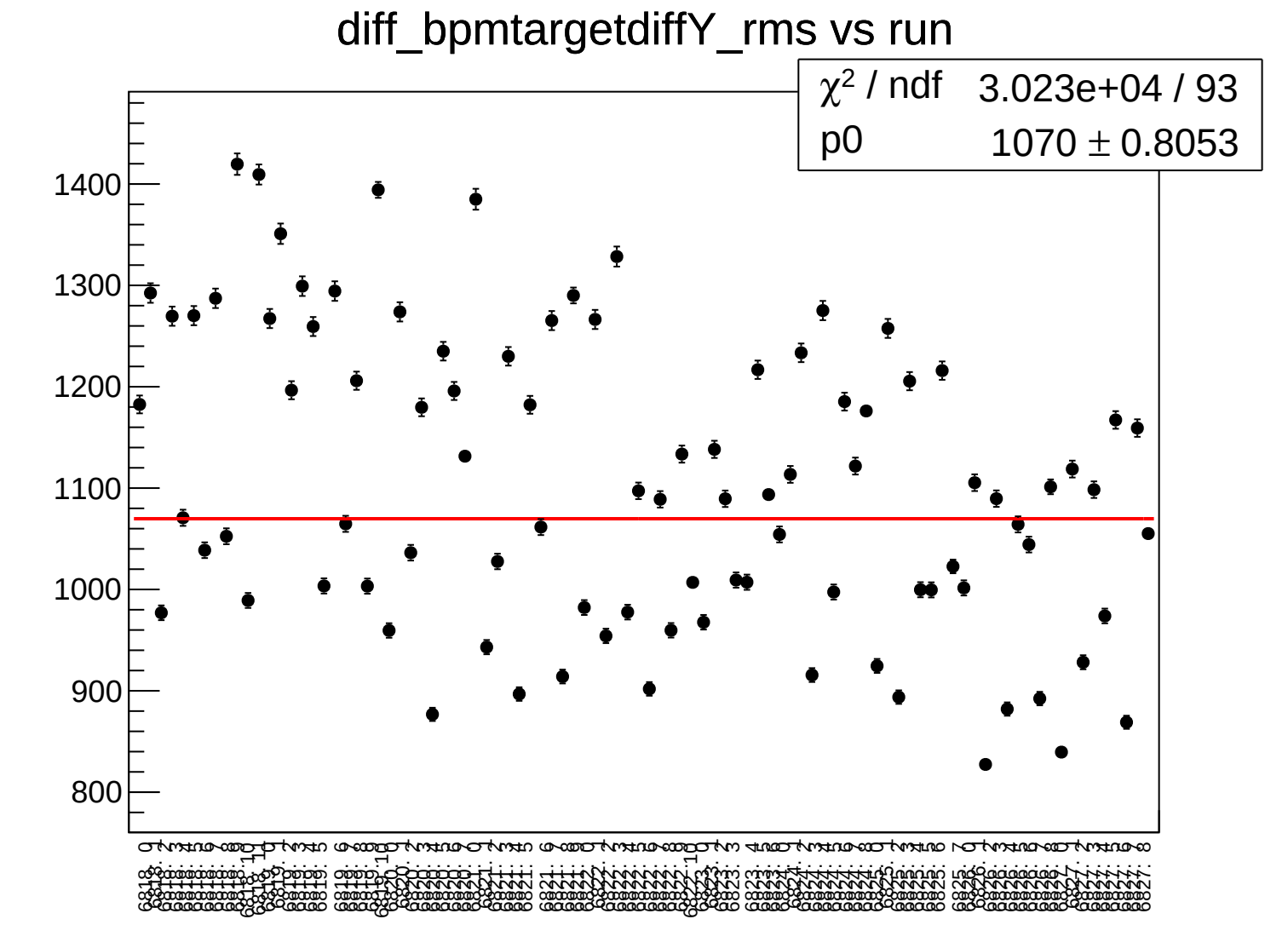

diff_bpmtargetsumY_mean vs run
χ² / ndf 96.27 / 93
p0 −16.41 ± 8.704
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −267.7
Std Dev 0
2
1
0
−1
−2

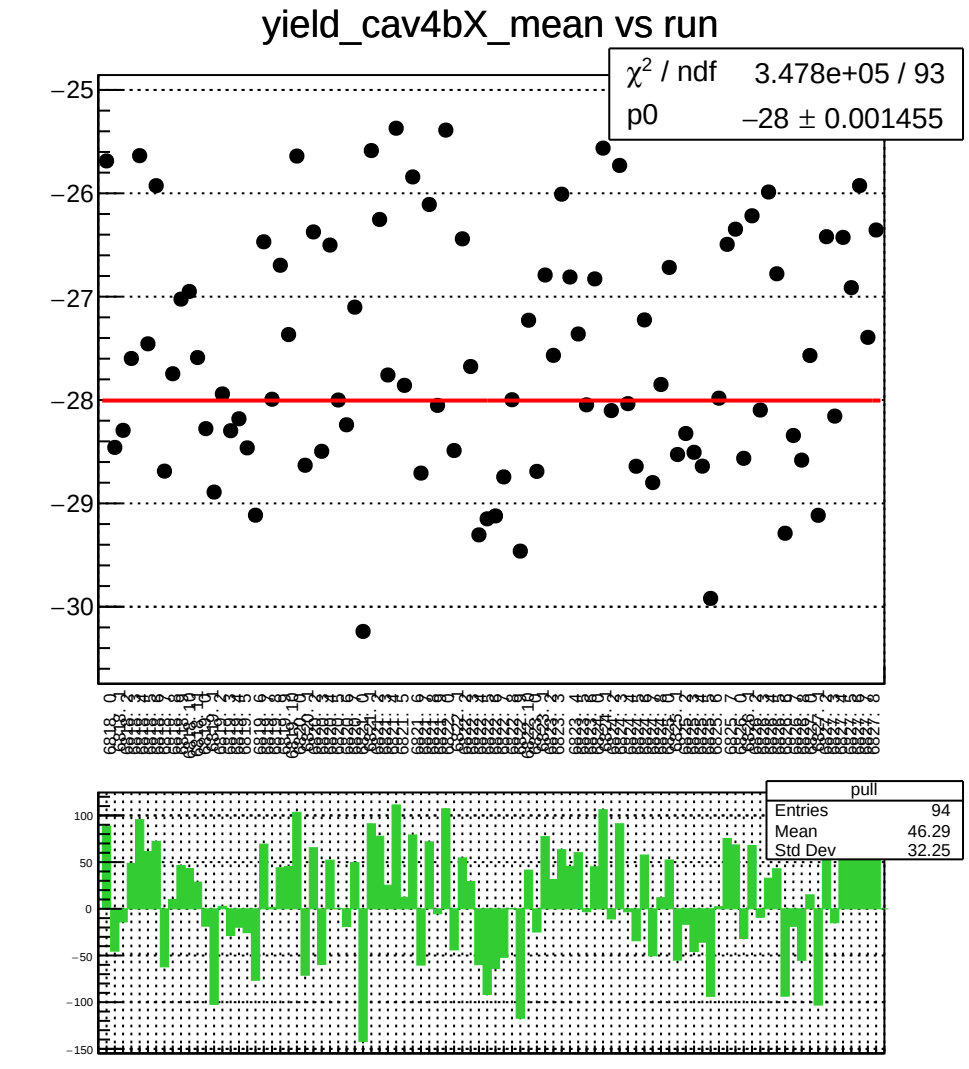

pull1D
Entries 94
Mean −0.005809
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

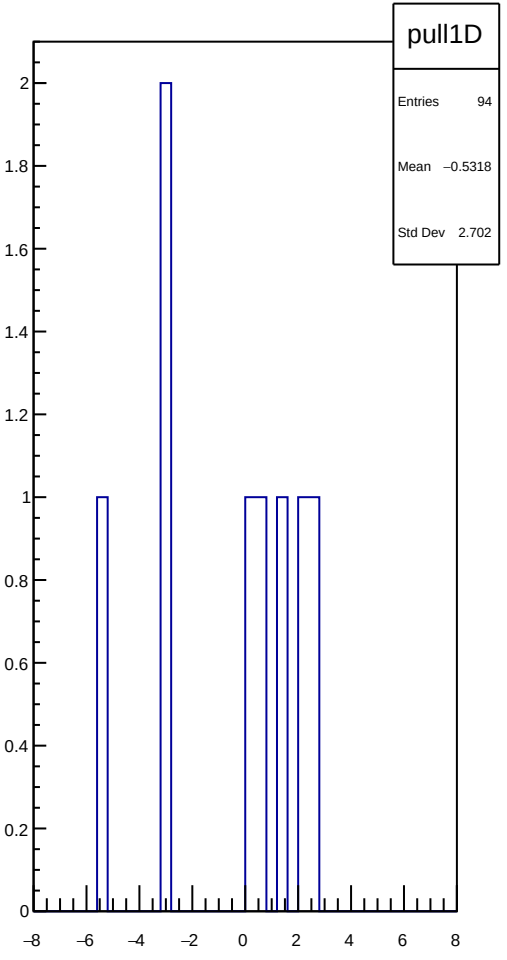

diff_bpmtargetsumY_rms vs run
χ² / ndf 5147 / 93
p0 8234 ± 6.155
9500
9000
8500
8000
7500
7000

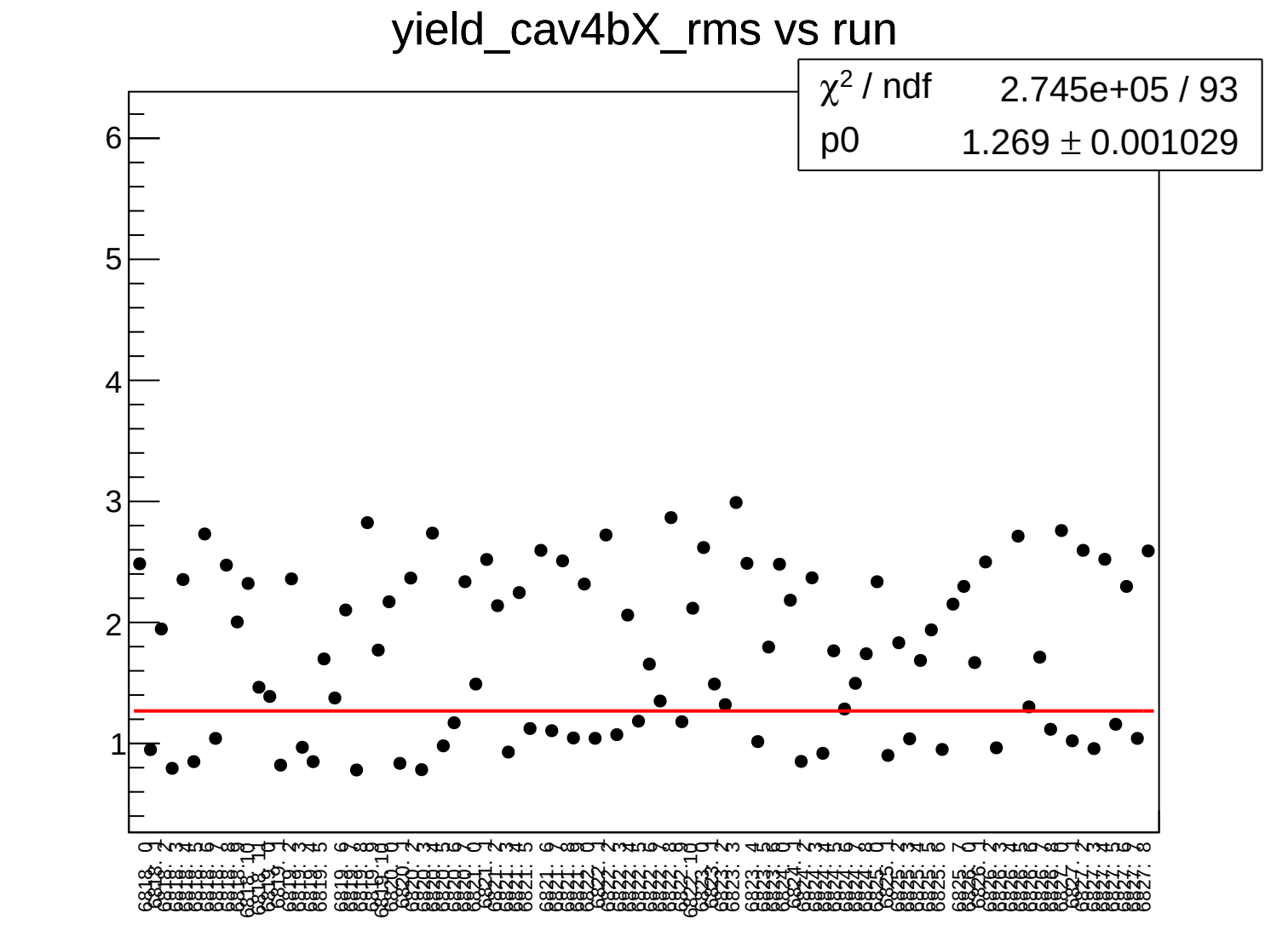

diff_bpmtargetdiffY_mean vs run
χ² / ndf 79.06 / 93
p0 −1.98 ± 1.139
pull
Entries 94
Mean −448
Std Dev 0

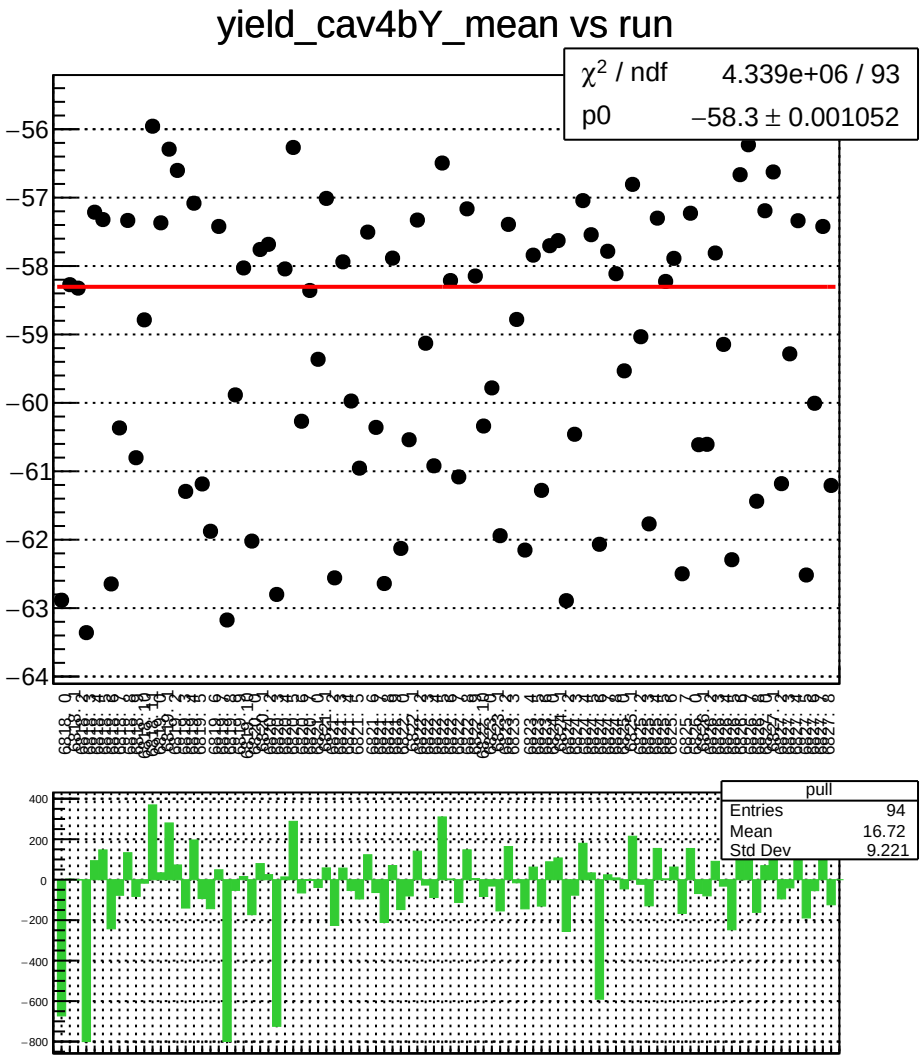

pull1D
Entries 94
Mean −0.006809
Std Dev 0.9171

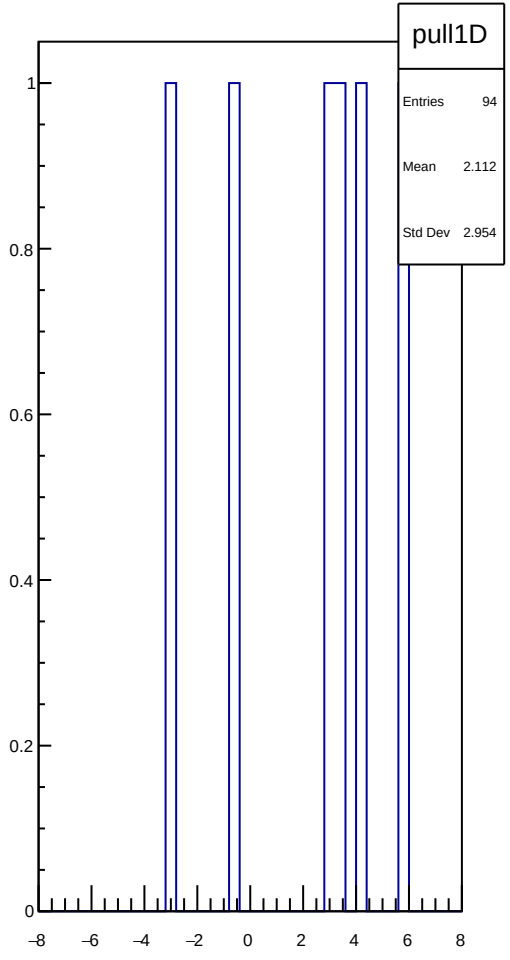

diff_bpmtargetdiffY_rms vs run
χ² / ndf 3.023e+04 / 93
p0 1070 ± 0.8053
1400
1300
1200
1100
1000
900
800

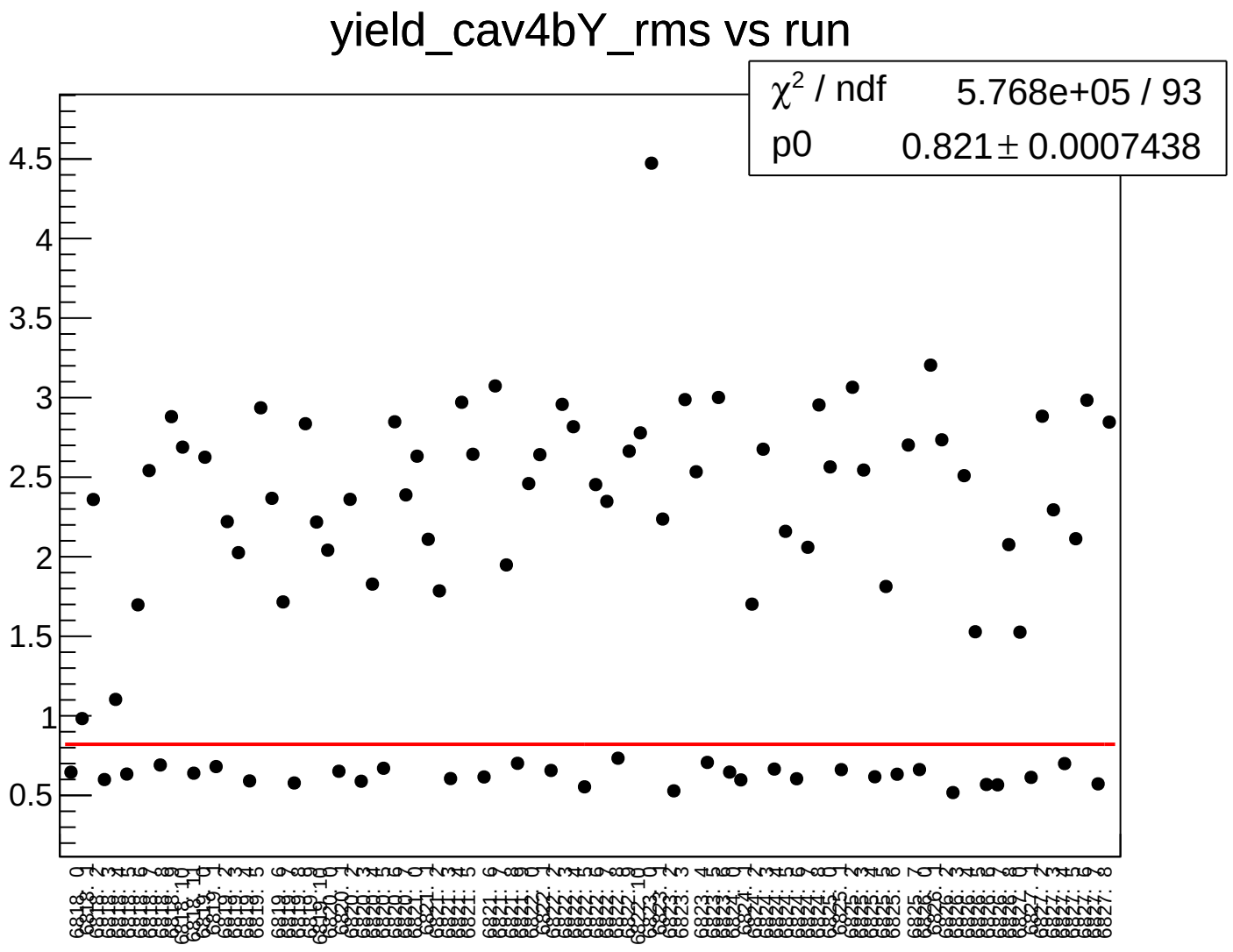

yield_cav4bX_mean vs run
χ² / ndf 3.478e+05 / 93
p0 −28 ± 0.001455
pull
Entries 94
Mean 46.29
Std Dev 32.25

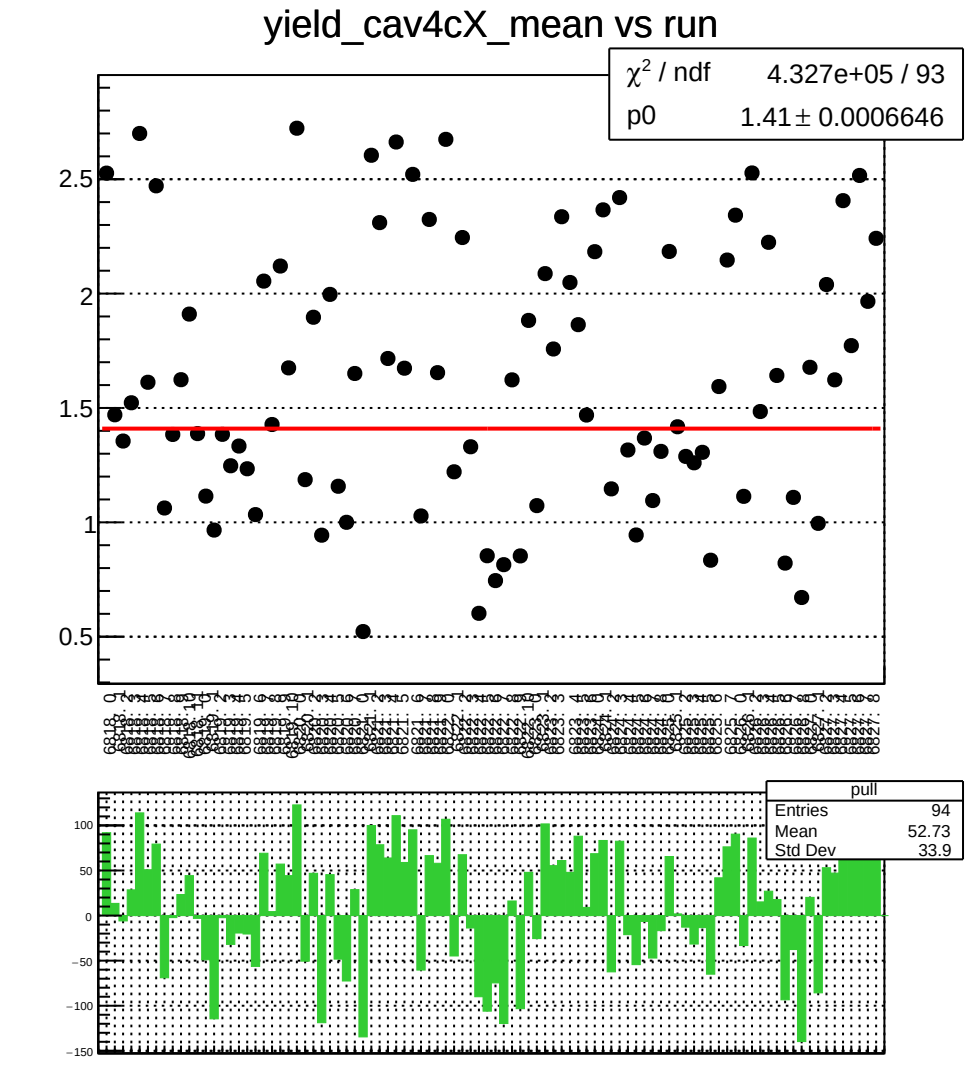

pull1D
Entries 94
Mean −0.5318
Std Dev 2.702

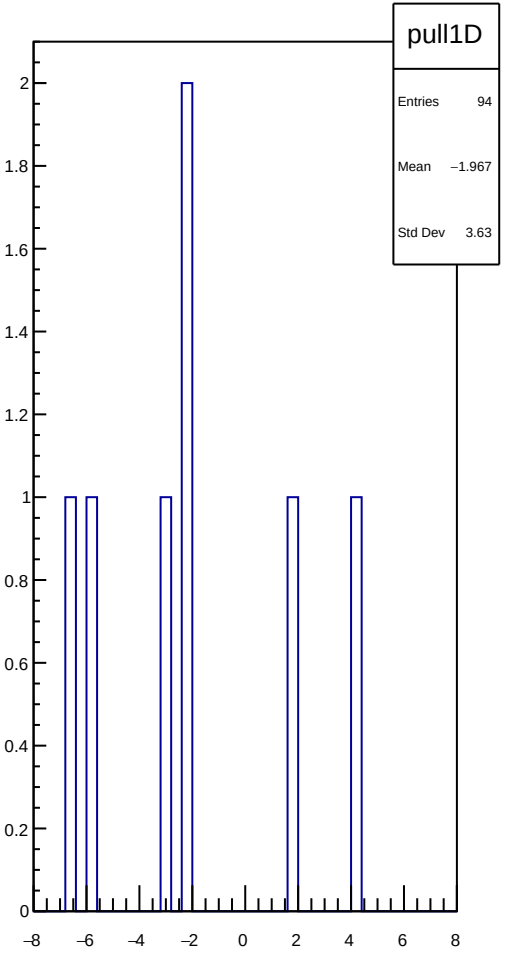

yield_cav4bX_rms vs run
χ^2 / ndf 2.745e+05 / 93
p0 1.269 ± 0.001029
6
5
4
3
2
1

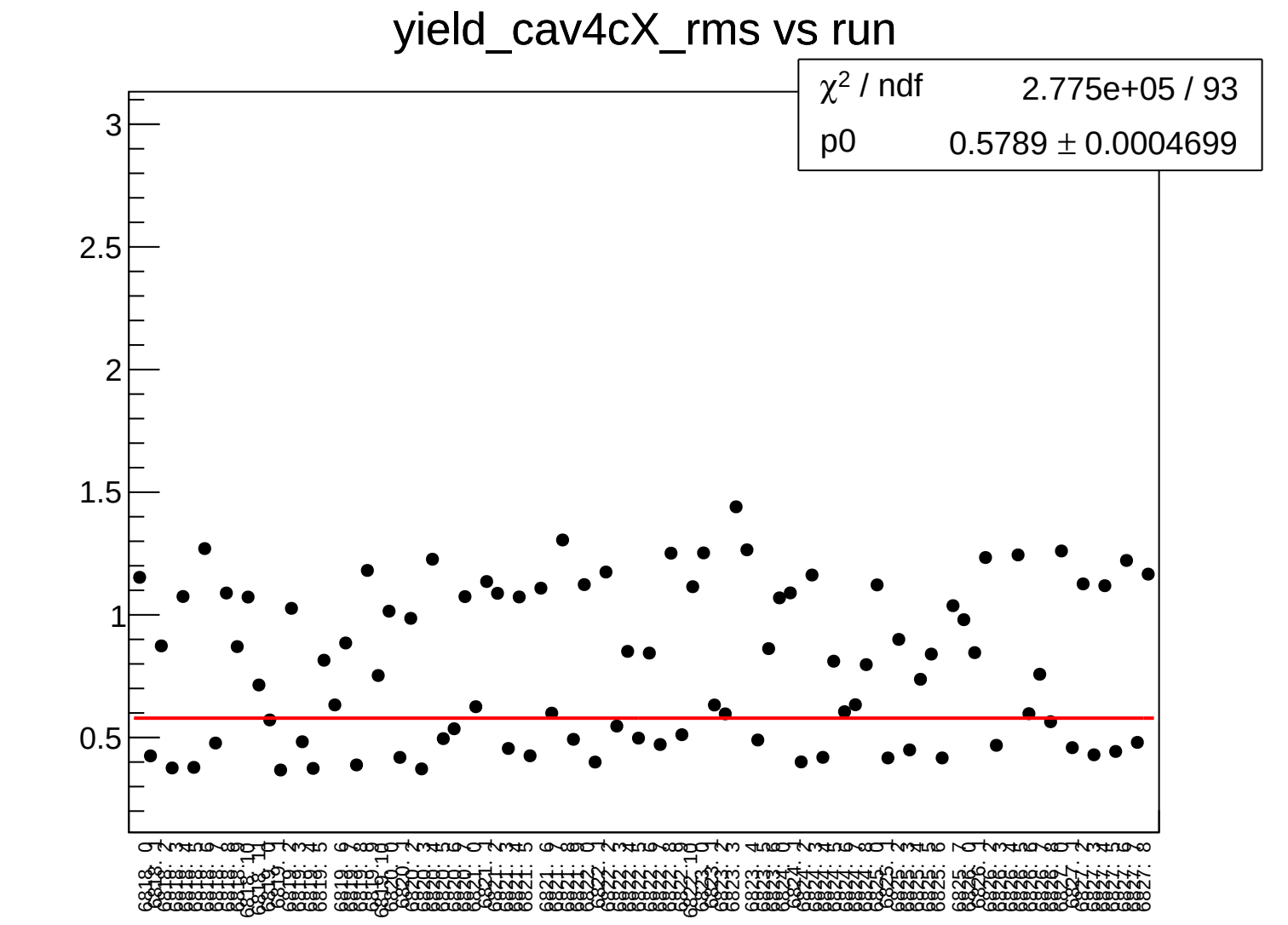

yield_cav4bY_mean vs run
χ² / ndf 4.339e+06 / 93
p0 −58.3 ± 0.001052
−56
−57
−58
−59
−60
−61
−62
−63
−64
pull
Entries 94
Mean 16.72
Std Dev 9.221
400
200
0
−200
−400
−600
−800

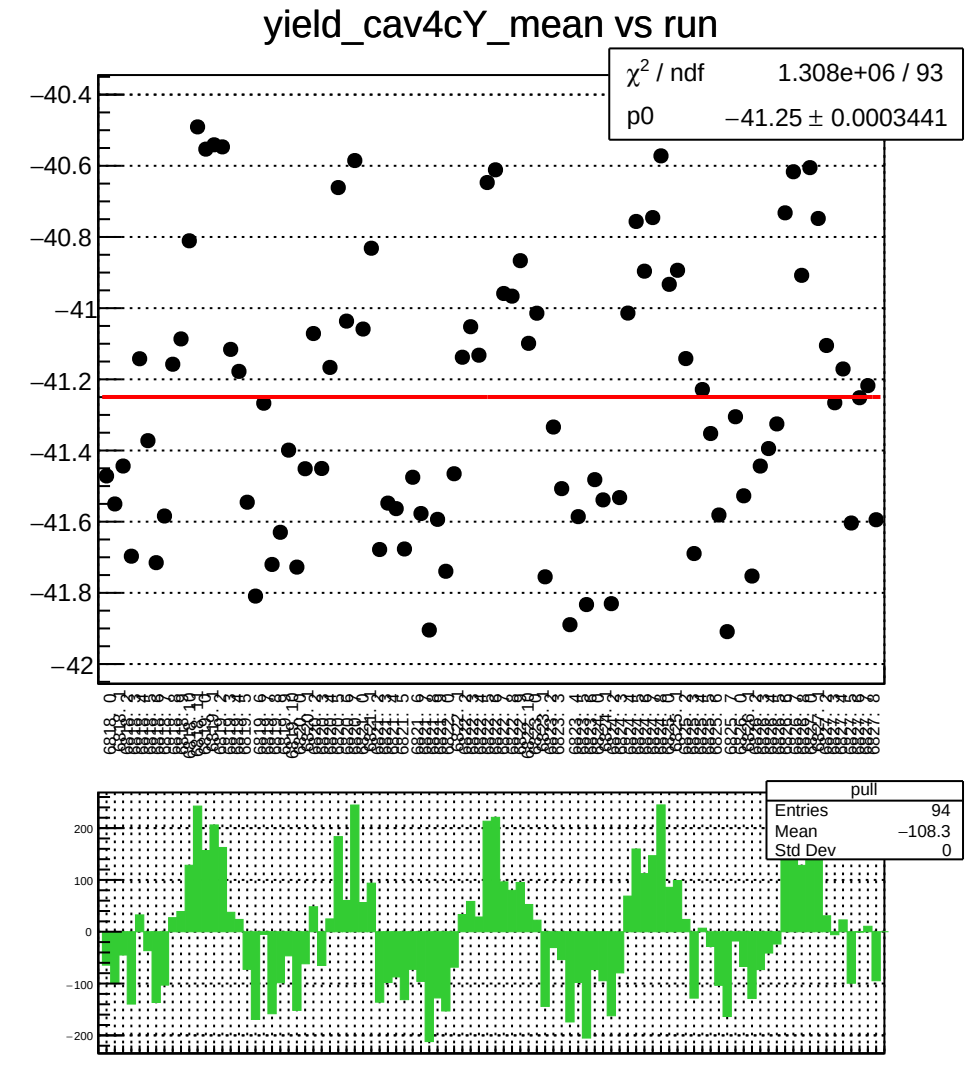

pull1D
Entries 94
Mean 2.112
Std Dev 2.954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

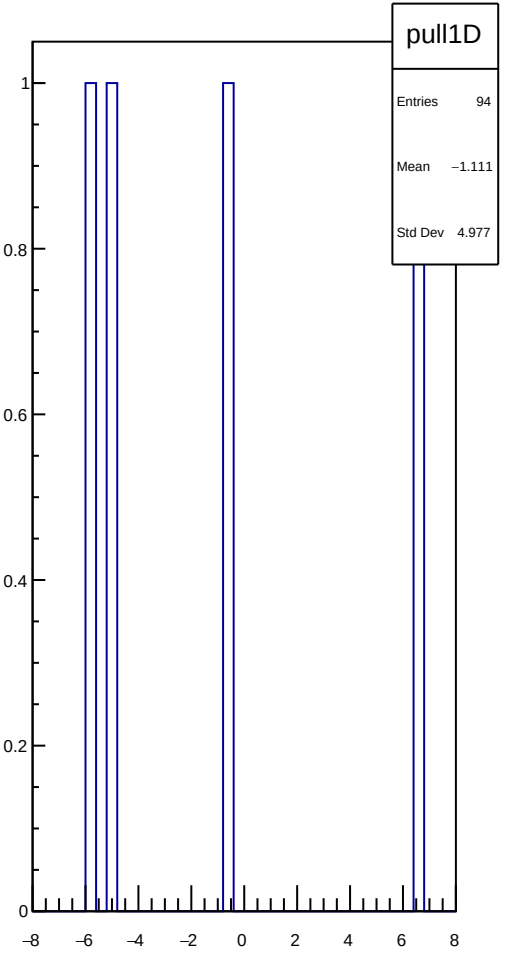

yield_cav4bY_rms vs run
χ^2 / ndf 5.768e+05 / 93
p0 0.821 ± 0.0007438
4.5
4
3.5
3
2.5
2
1.5
1
0.5

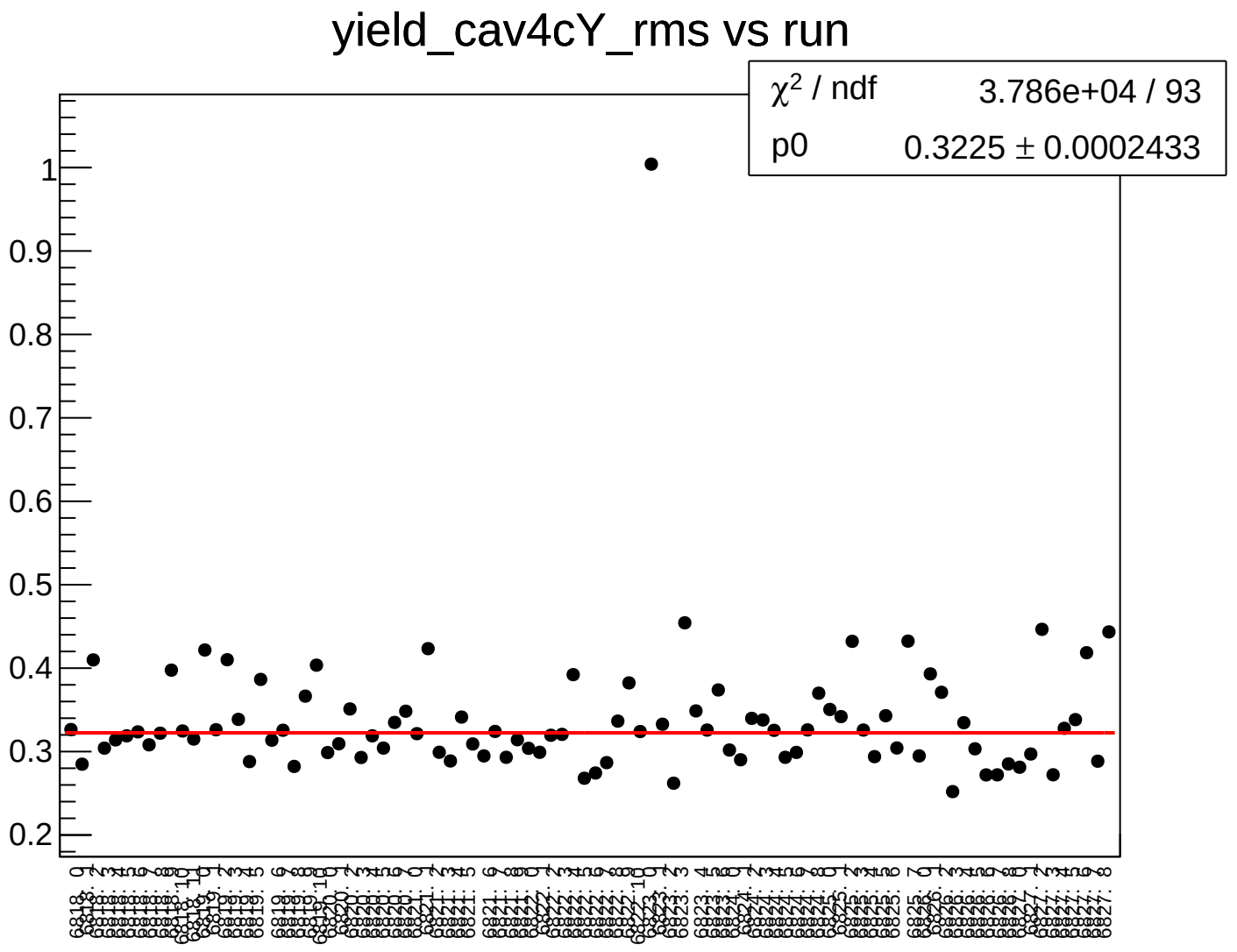

yield_cav4cX_mean vs run
χ² / ndf 4.327e+05 / 93
p0 1.41 ± 0.0006646
pull
Entries 94
Mean 52.73
Std Dev 33.9

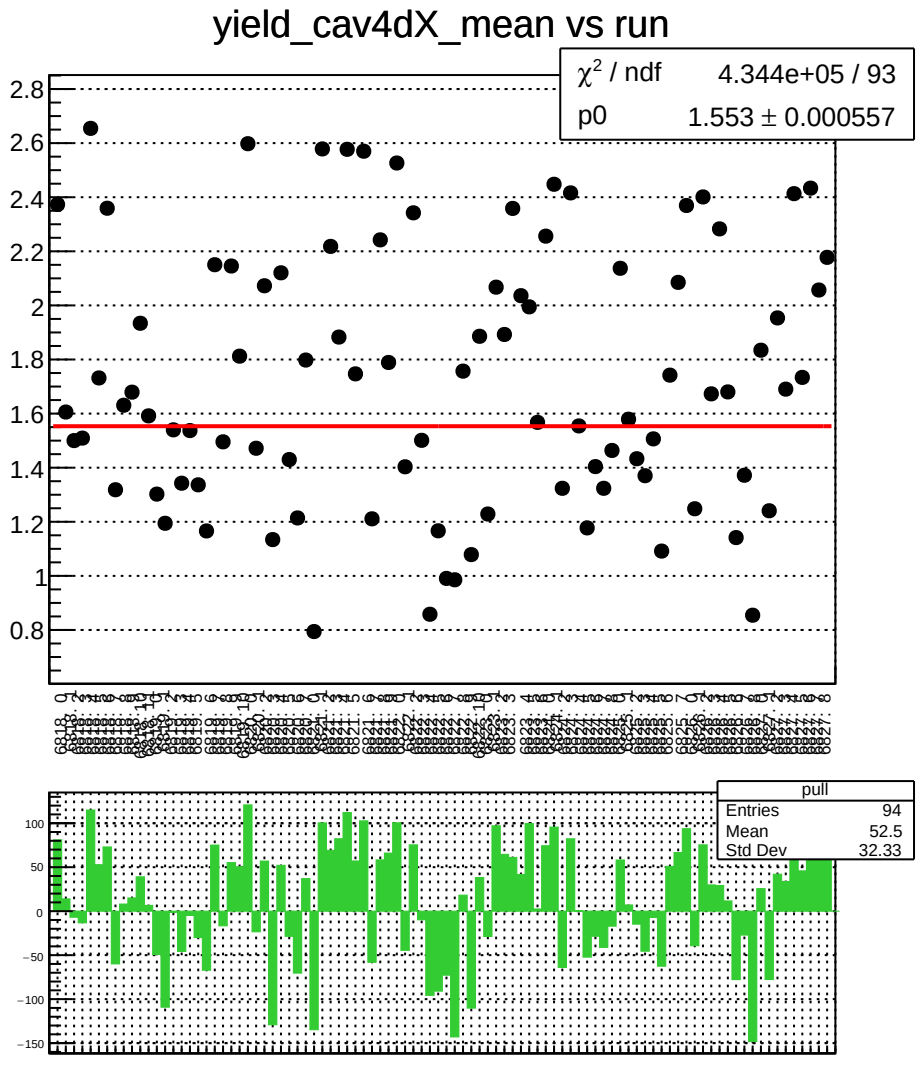

pull1D
Entries 94
Mean −1.967
Std Dev 3.63

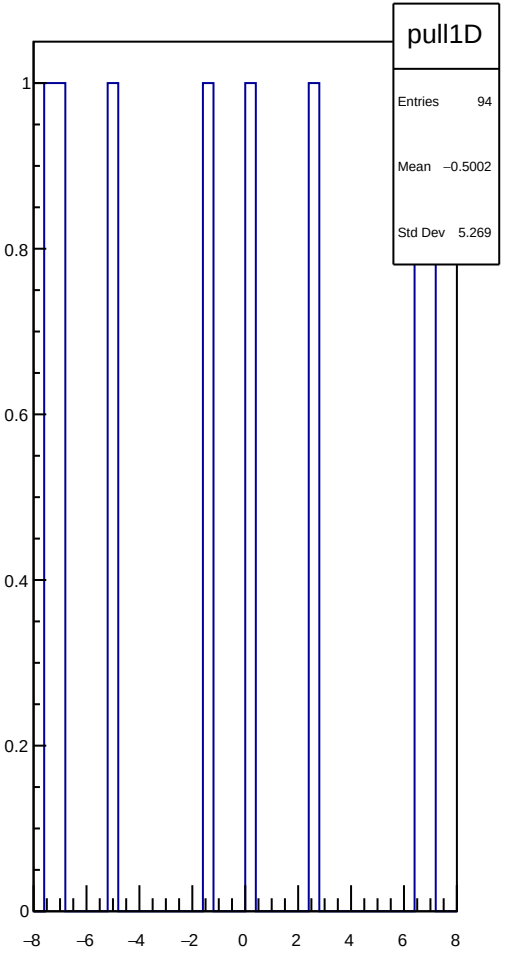

yield_cav4cX_rms vs run
χ² / ndf 2.775e+05 / 93
p0 0.5789 ± 0.0004699
3
2.5
2
1.5
1
0.5

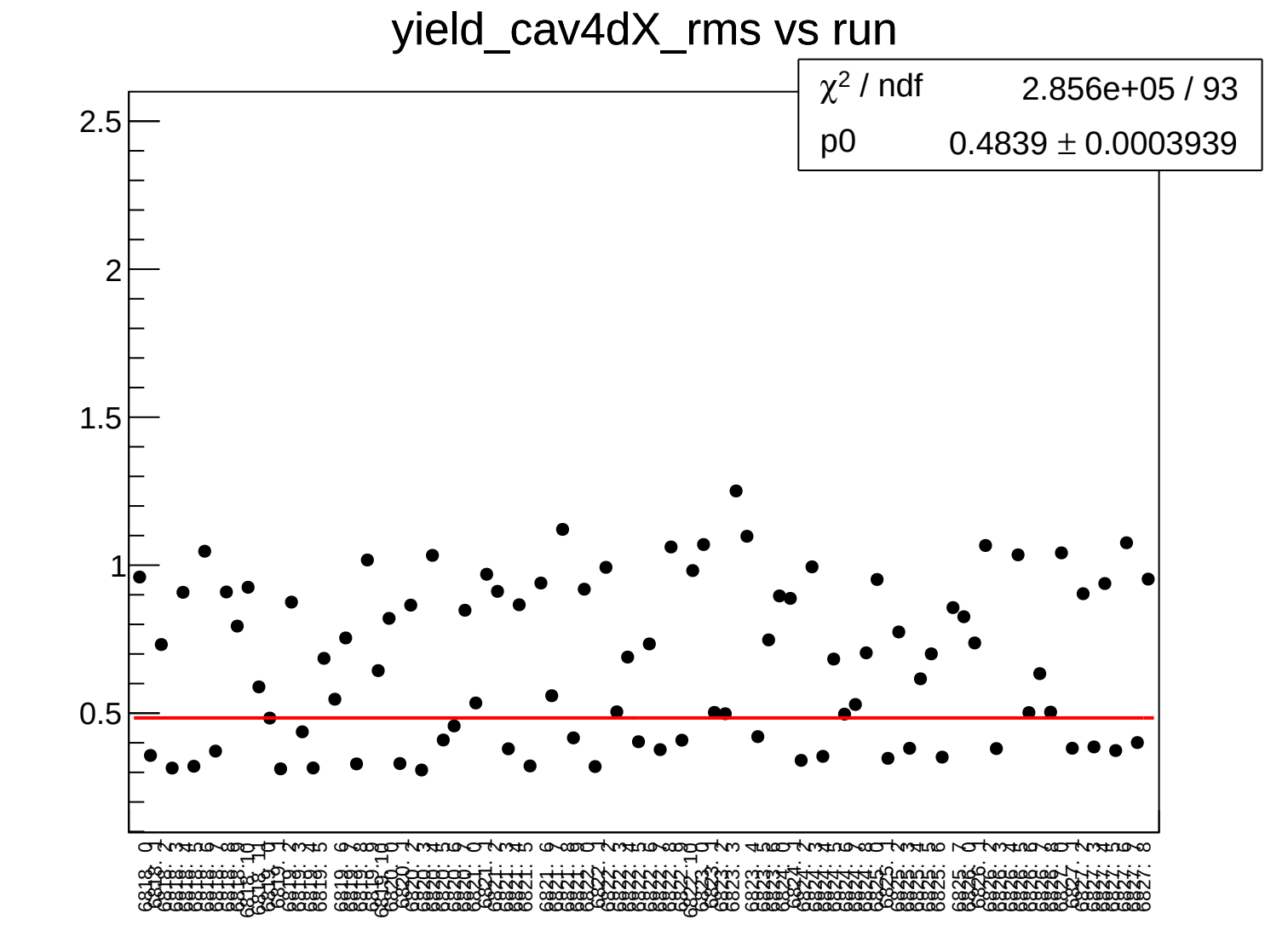

yield_cav4cY_mean vs run
χ² / ndf 1.308e+06 / 93
p0 −41.25 ± 0.0003441
−40.4
−40.6
−40.8
−41
−41.2
−41.4
−41.6
−41.8
−42
pull
Entries 94
Mean −108.3
Std Dev 0
200
100
0
−100
−200

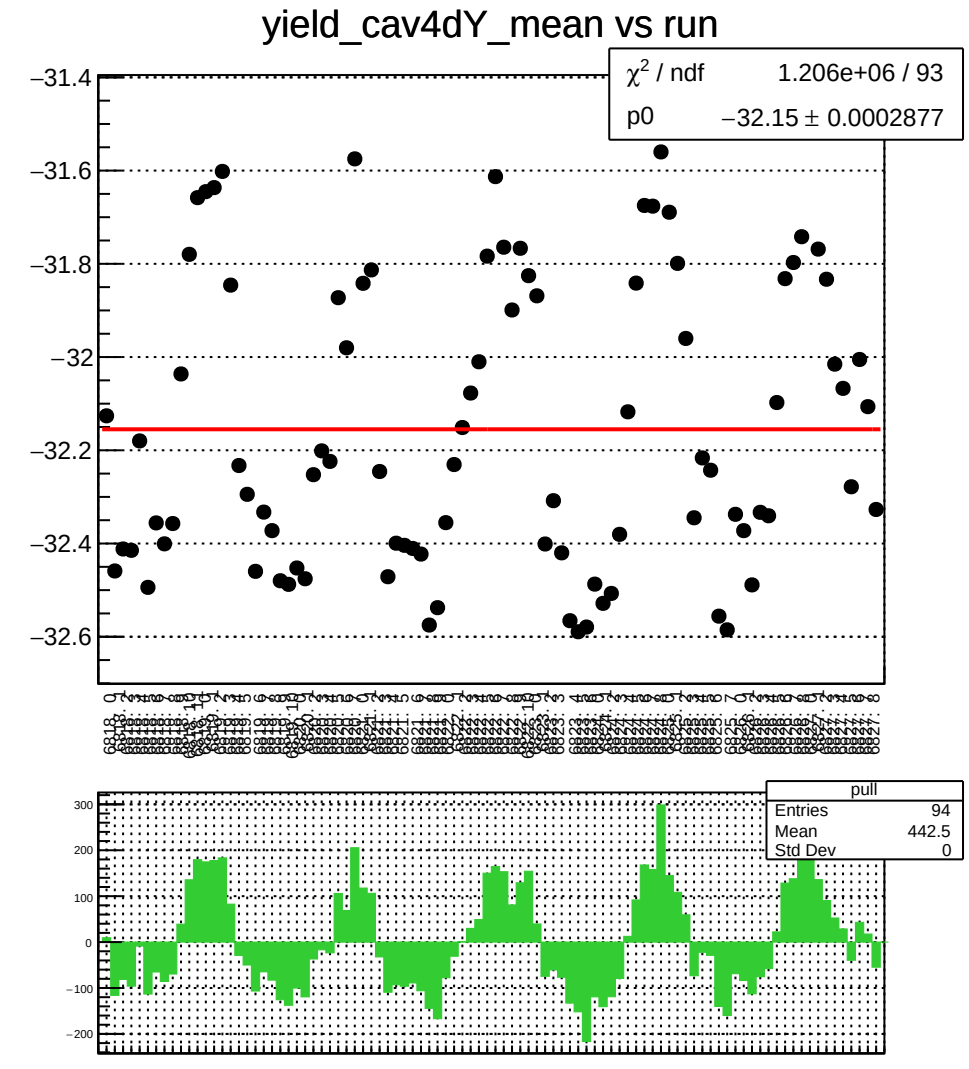

pull1D
Entries 94
Mean −1.111
Std Dev 4.977
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

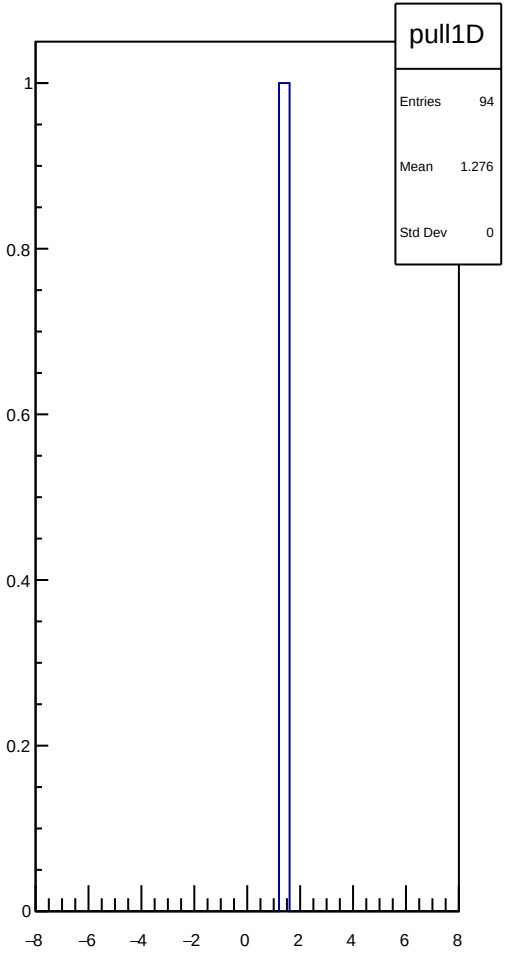

yield_cav4cY_rms vs run
χ² / ndf 3.786e+04 / 93
p0 0.3225 ± 0.0002433
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

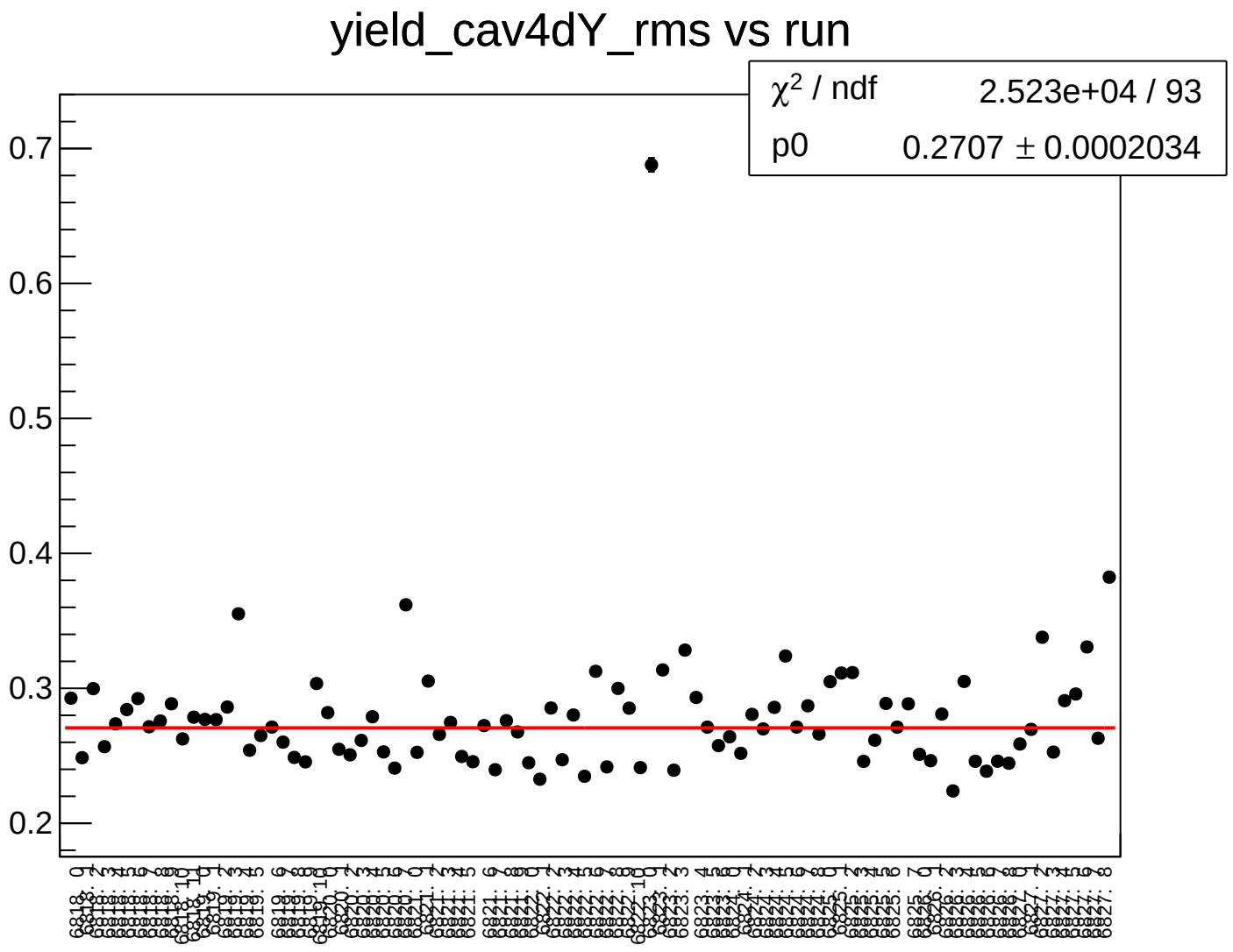

yield_cav4dX_mean vs run
χ² / ndf 4.344e+05 / 93
p0 1.553 ± 0.000557
pull
Entries 94
Mean 52.5
Std Dev 32.33

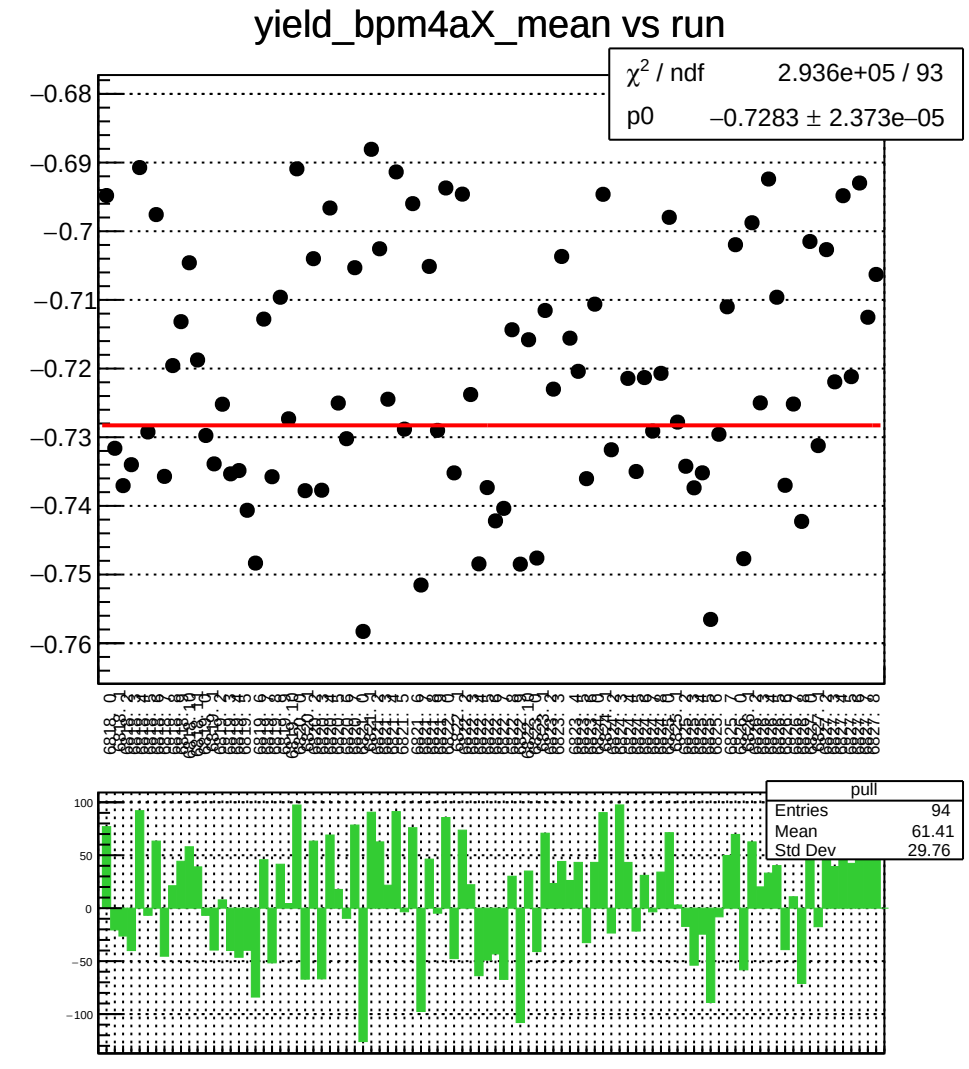

pull1D
Entries 94
Mean −0.5002
Std Dev 5.269

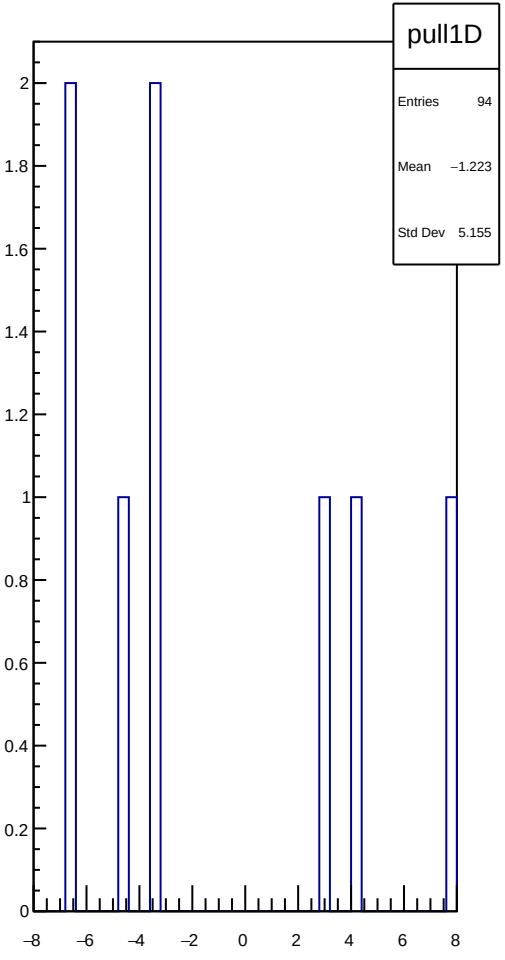

yield_cav4dX_rms vs run
χ² / ndf 2.856e+05 / 93
p0 0.4839 ± 0.0003939
2.5
2
1.5
1
0.5

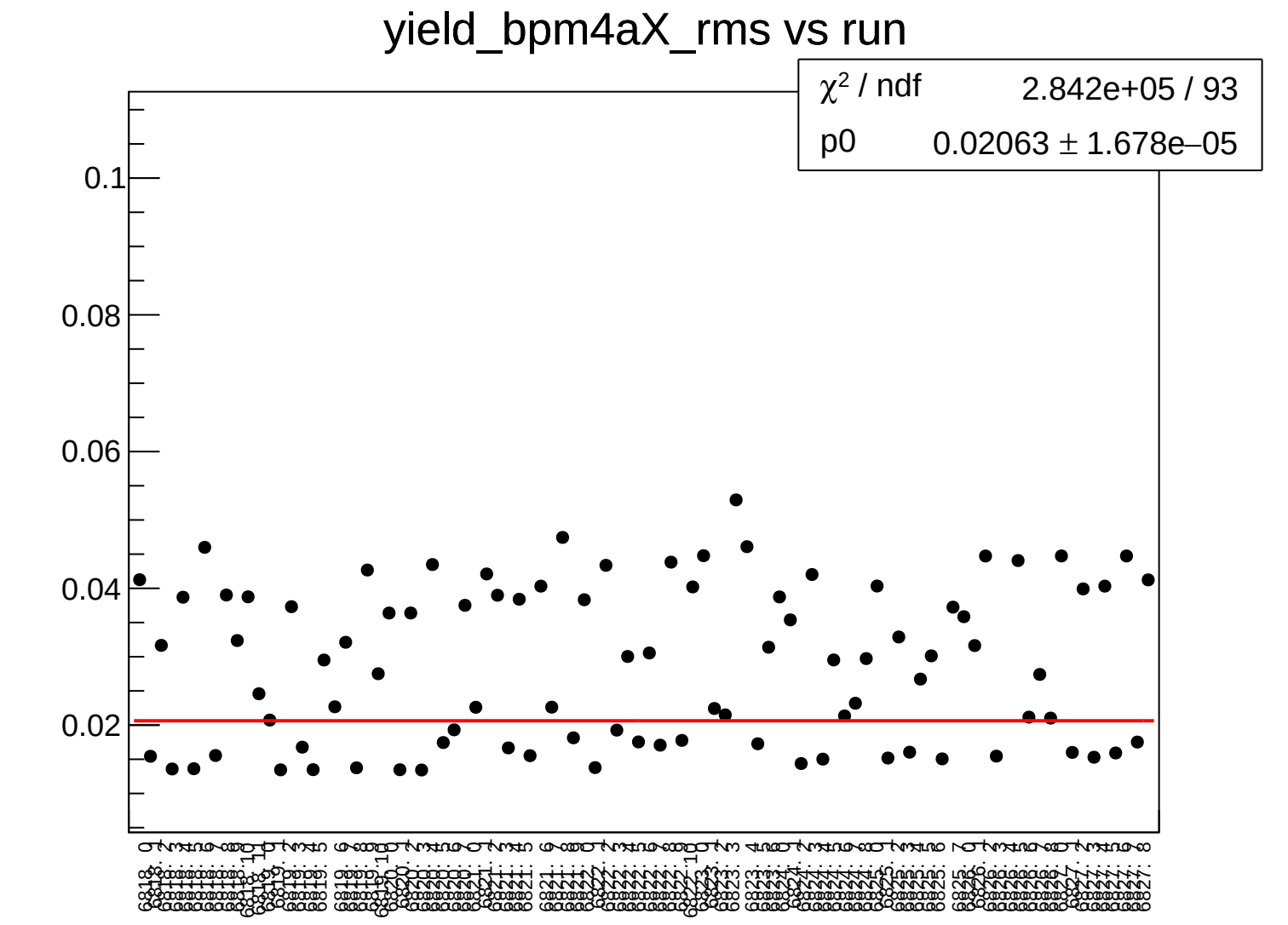

yield_cav4dY_mean vs run
χ² / ndf 1.206e+06 / 93
p0 −32.15 ± 0.0002877
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
pull
Entries 94
Mean 442.5
Std Dev 0
300
200
100
0
−100
−200

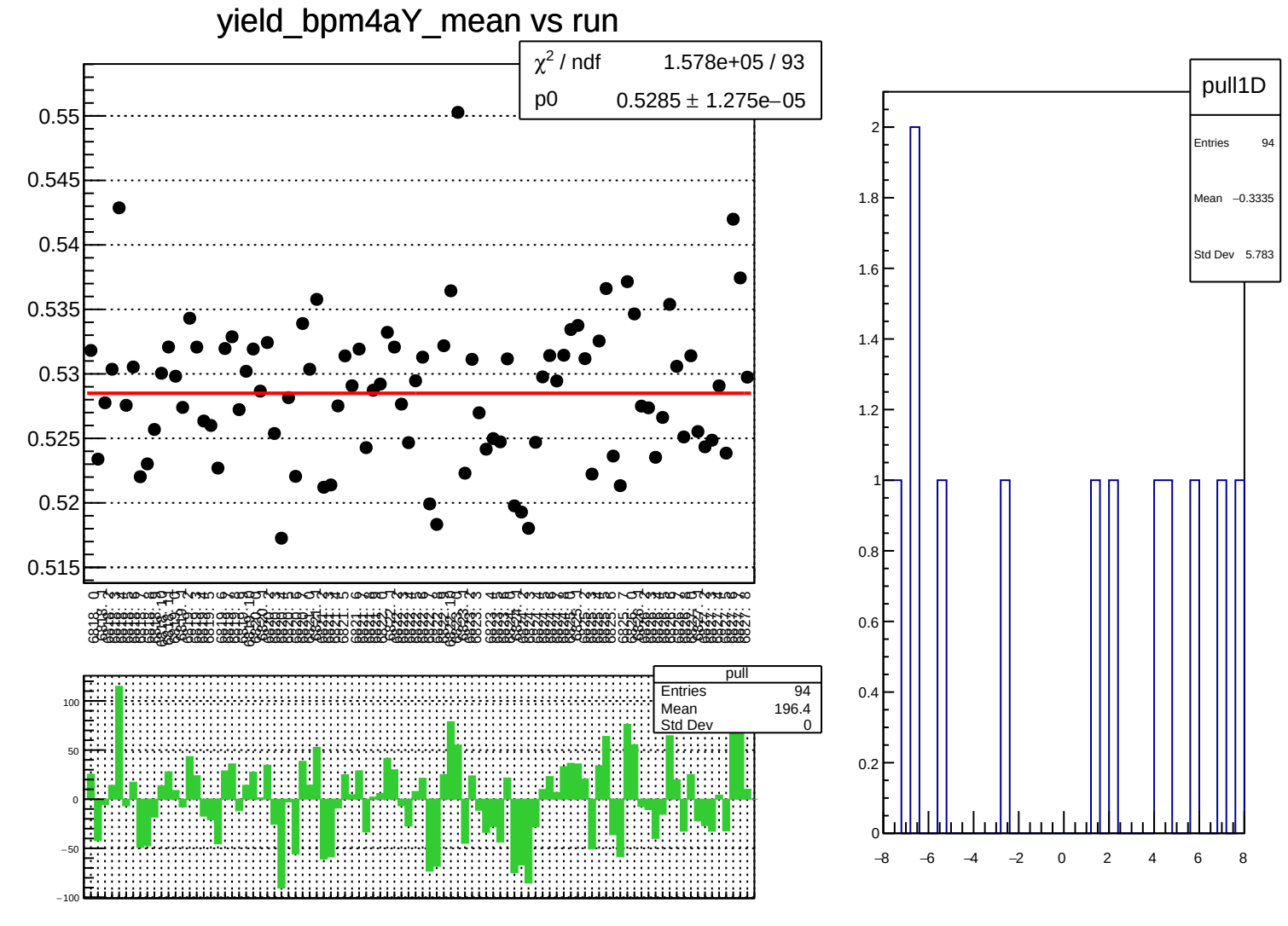

pull1D
Entries 94
Mean 1.276
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

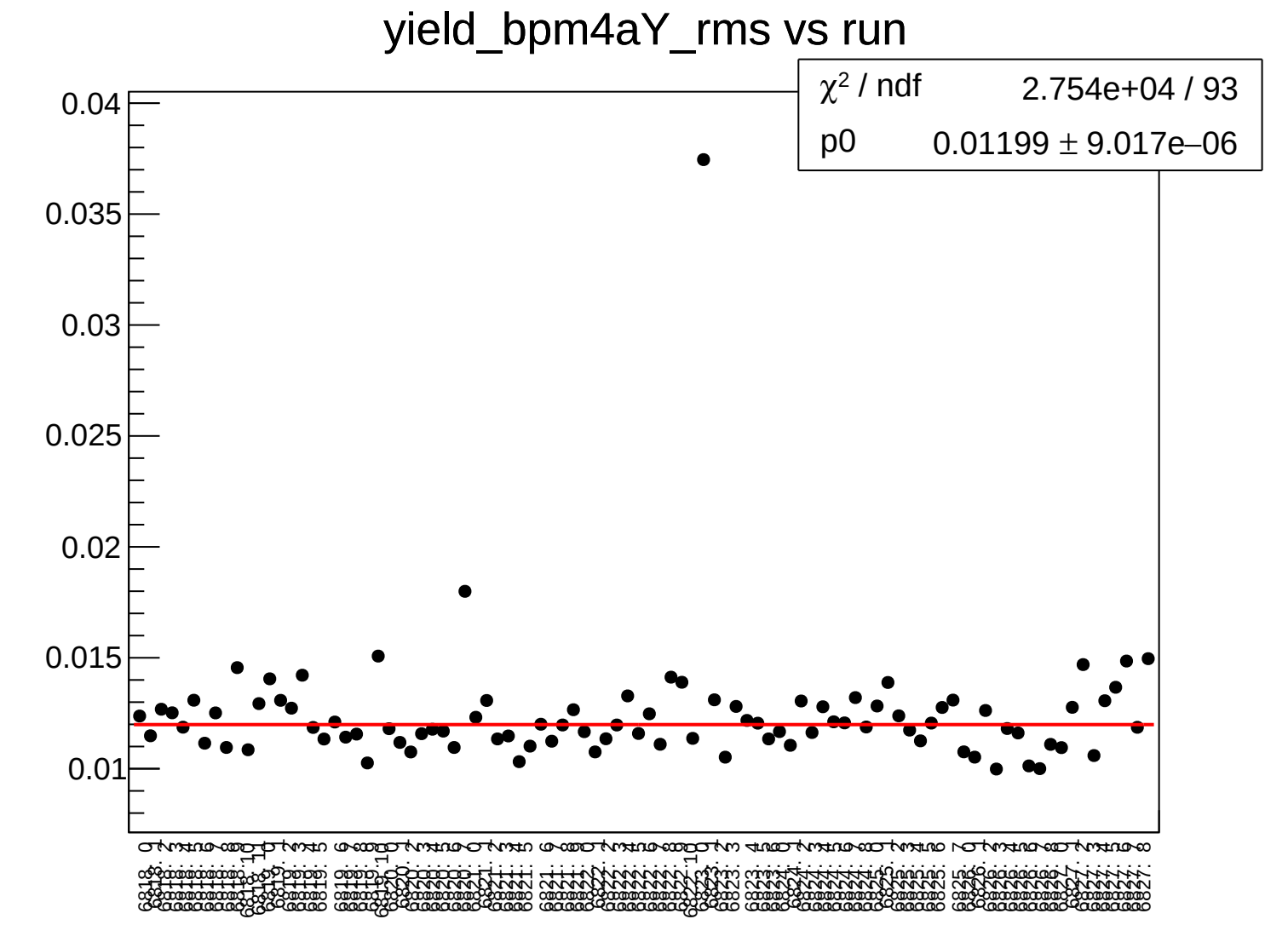

yield_cav4dY_rms vs run
χ² / ndf 2.523e+04 / 93
p0 0.2707 ± 0.0002034
0.7
0.6
0.5
0.4
0.3
0.2

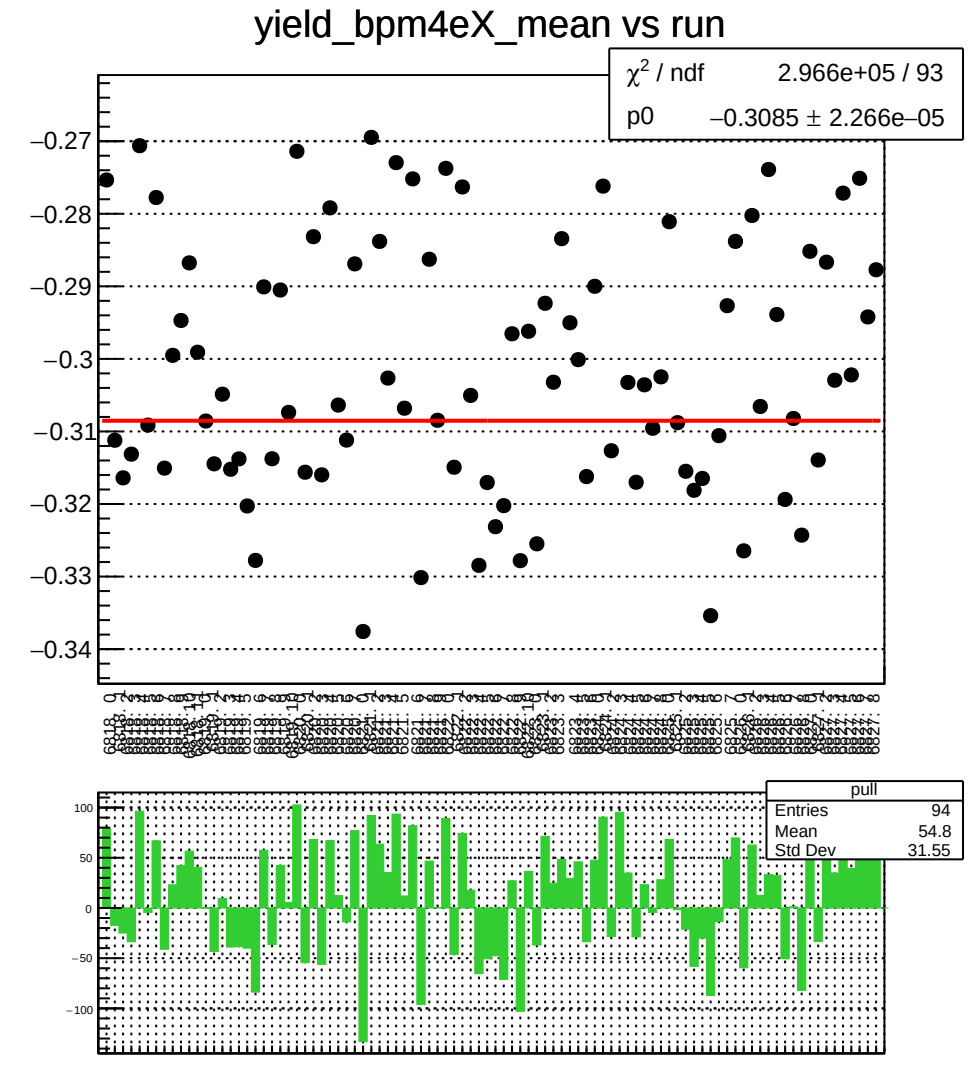

yield_bpm4aX_mean vs run
χ² / ndf 2.936e+05 / 93
p0 −0.7283 ± 2.373e−05
pull
Entries 94
Mean 61.41
Std Dev 29.76

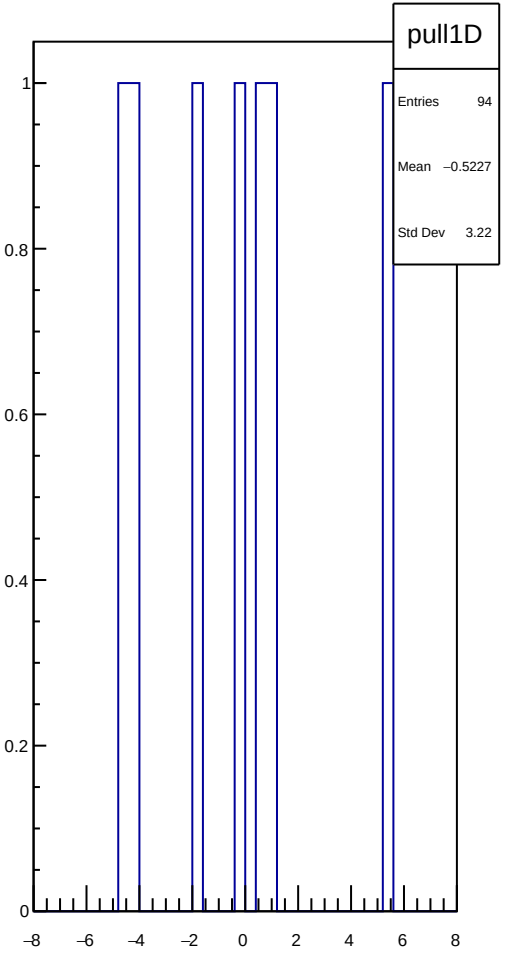

pull1D
Entries 94
Mean −1.223
Std Dev 5.155

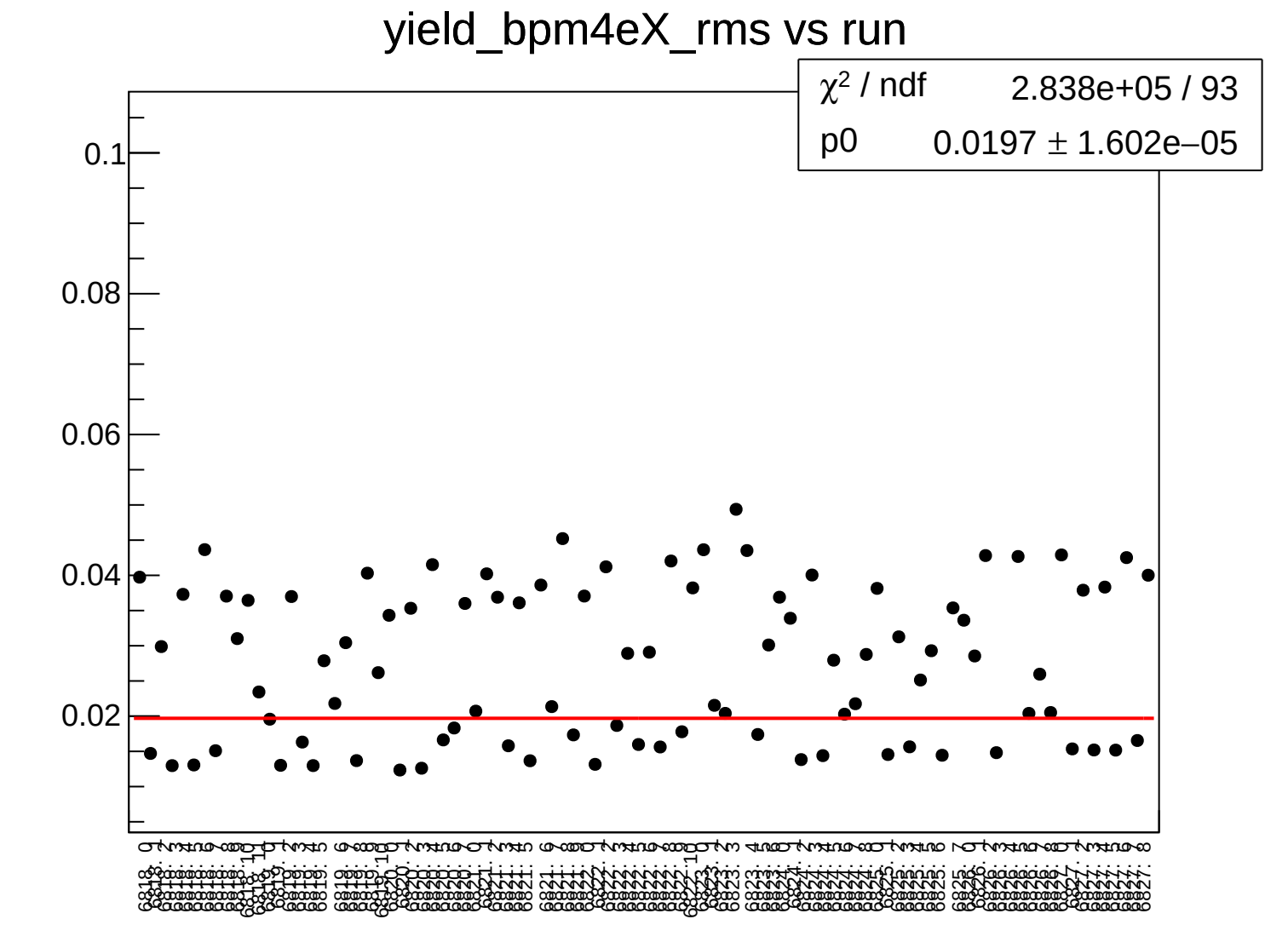

yield_bpm4aX_rms vs run
χ² / ndf 2.842e+05 / 93
p0 0.02063 ± 1.678e−05
0.1
0.08
0.06
0.04
0.02

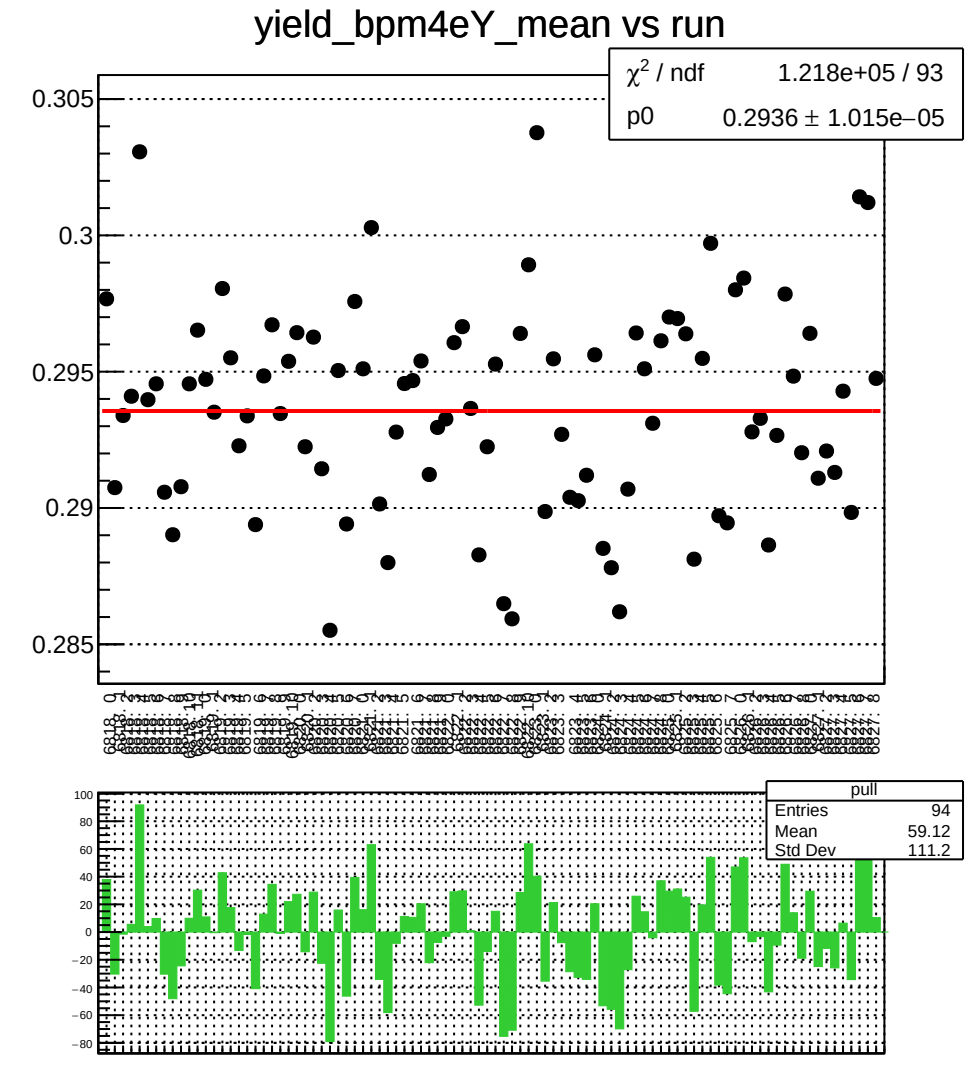

yield_bpm4aY_mean vs run
χ² / ndf 1.578e+05 / 93
p0 0.5285 ± 1.275e−05
0.55
0.545
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 94
Mean 196.4
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 94
Mean −0.3335
Std Dev 5.783
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

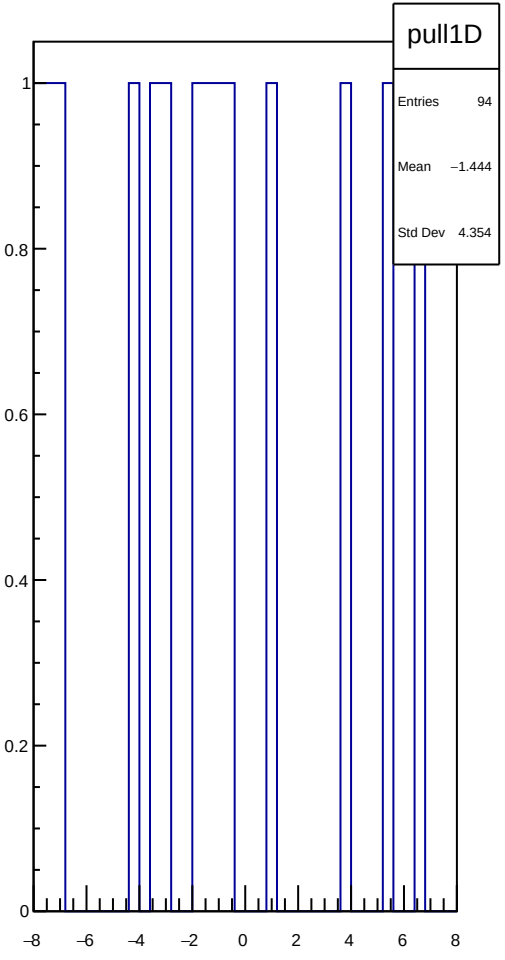

yield_bpm4aY_rms vs run
χ² / ndf 2.754e+04 / 93
p0 0.01199 ± 9.017e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

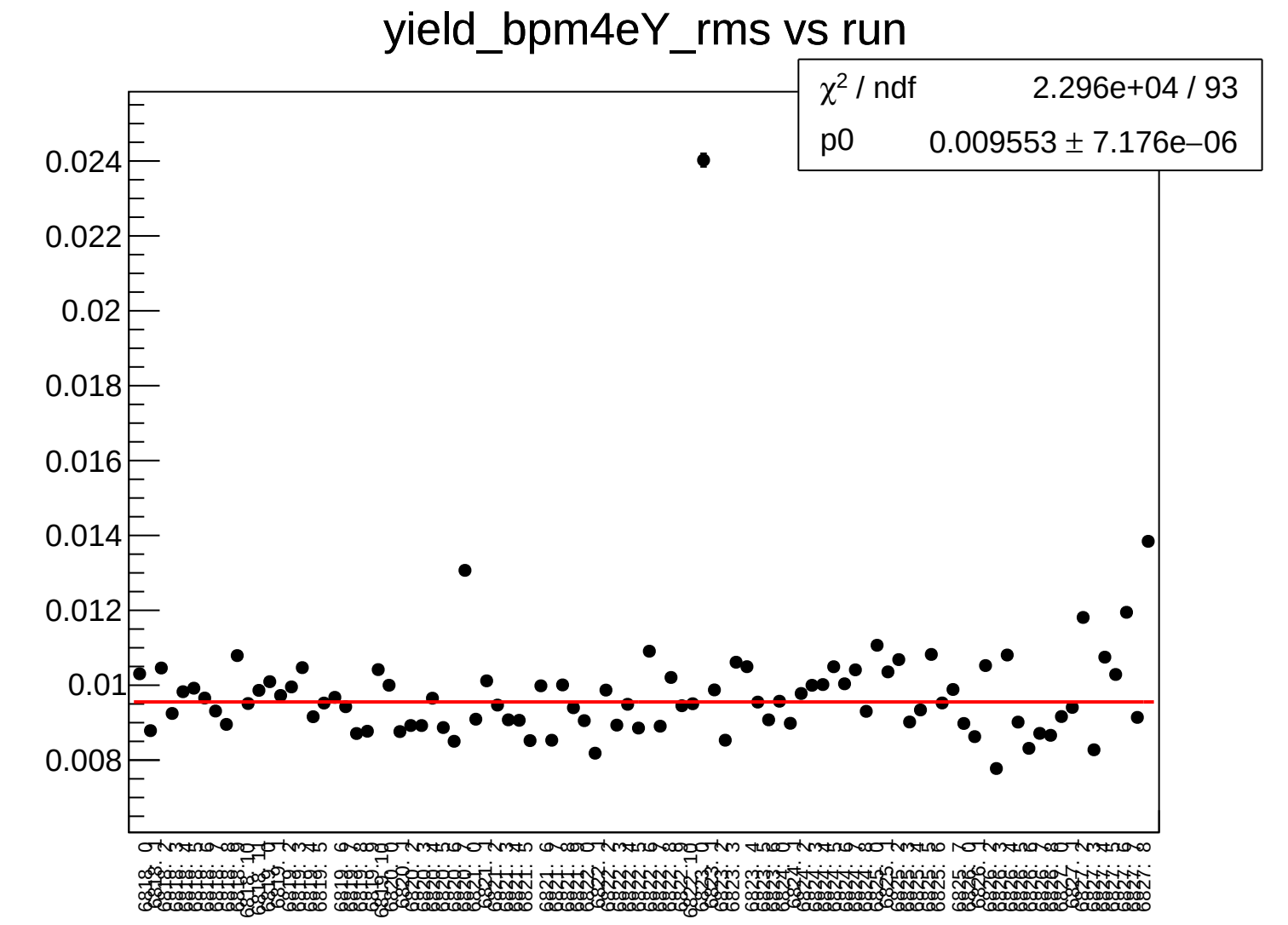

yield_bpm4eX_mean vs run
χ² / ndf 2.966e+05 / 93
p0 −0.3085 ± 2.266e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
pull
Entries 94
Mean 54.8
Std Dev 31.55
100
50
0
−50
−100

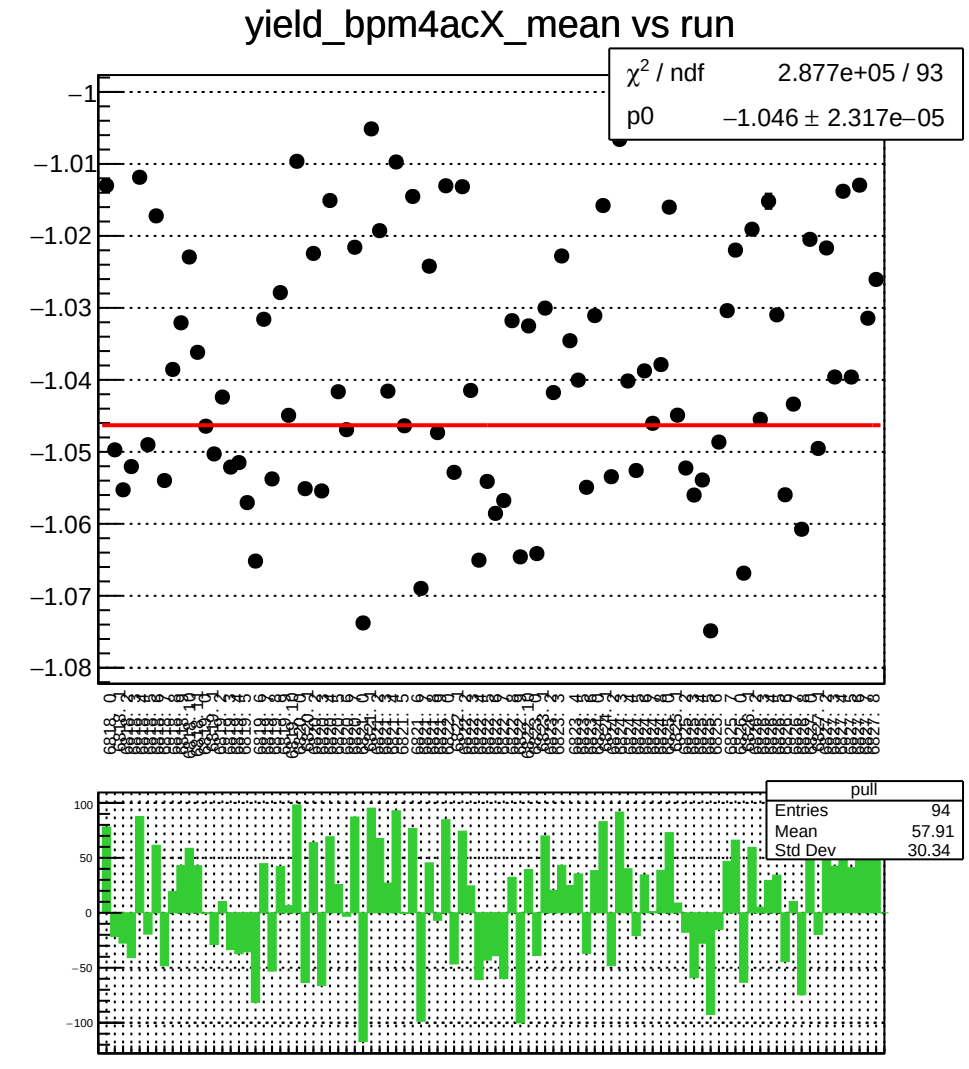

pull1D
Entries 94
Mean −0.5227
Std Dev 3.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

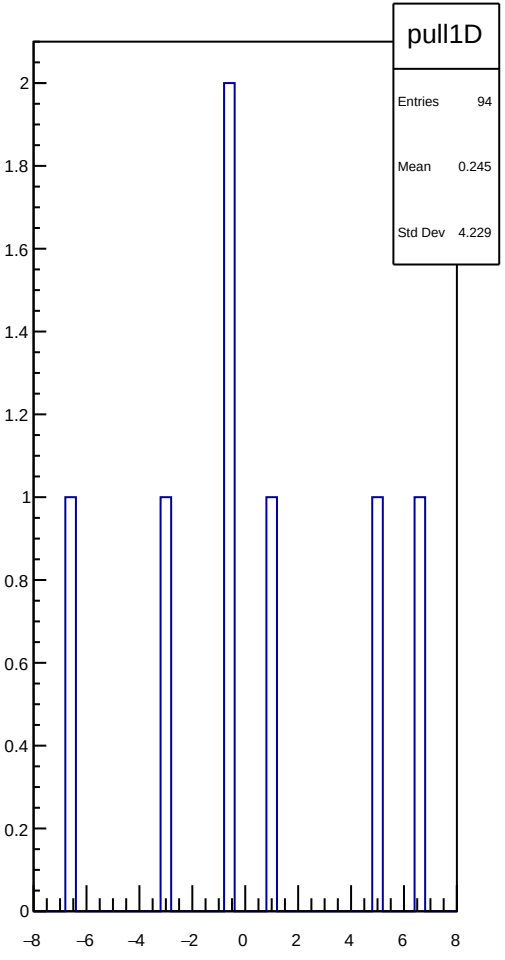

yield_bpm4eX_rms vs run
χ² / ndf 2.838e+05 / 93
p0 0.0197 ± 1.602e−05
0.1
0.08
0.06
0.04
0.02

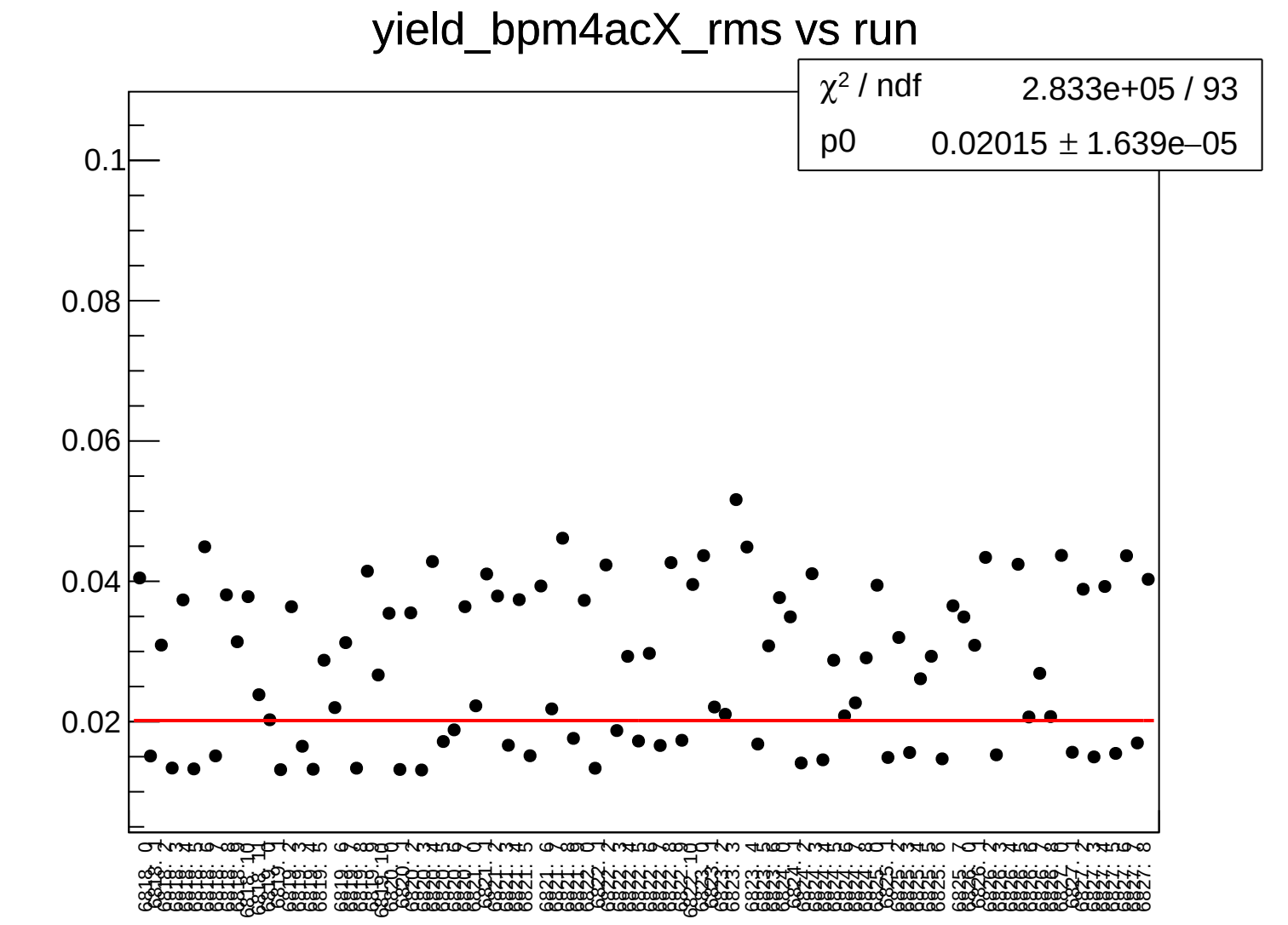

yield_bpm4eY_mean vs run
χ² / ndf 1.218e+05 / 93
p0 0.2936 ± 1.015e−05
0.305
0.3
0.295
0.29
0.285
pull
Entries 94
Mean 59.12
Std Dev 111.2
100
80
60
40
20
0
−20
−40
−60
−80

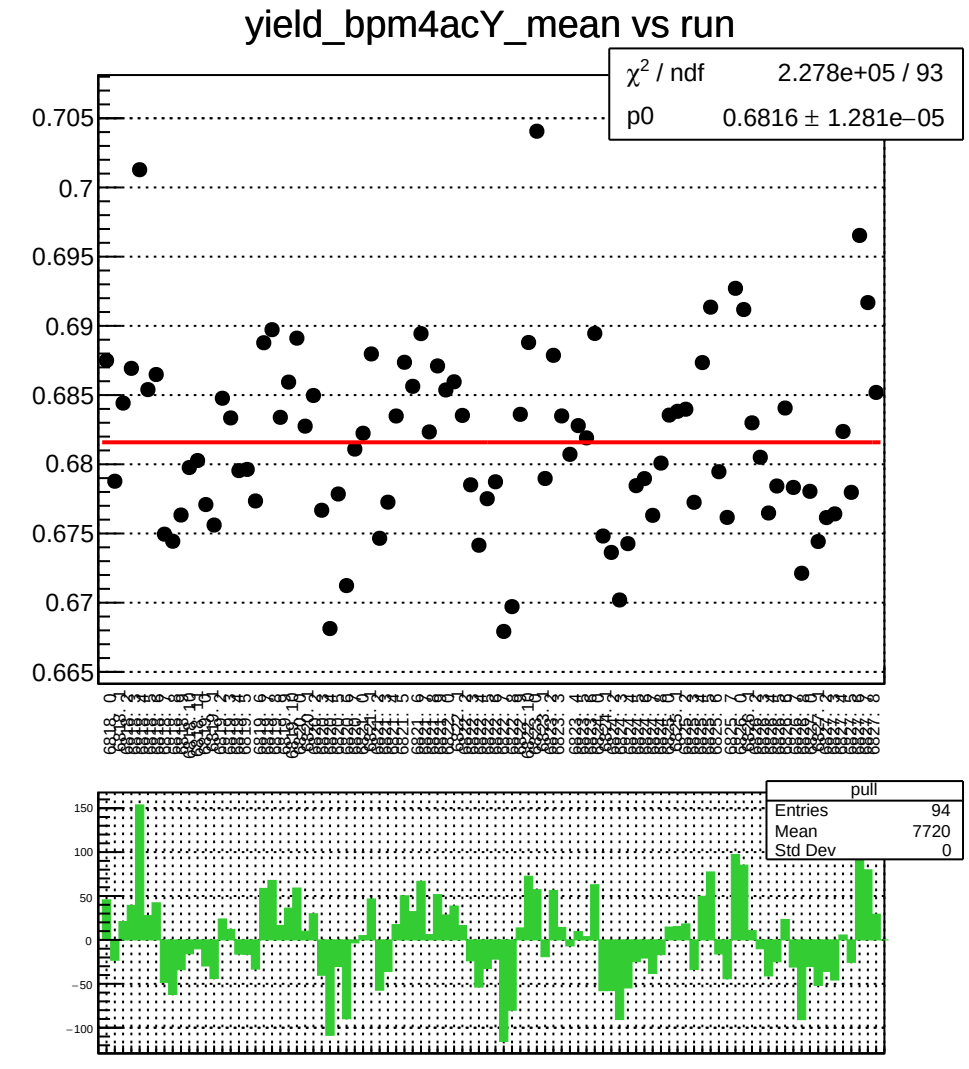

pull1D
Entries 94
Mean −1.444
Std Dev 4.354
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

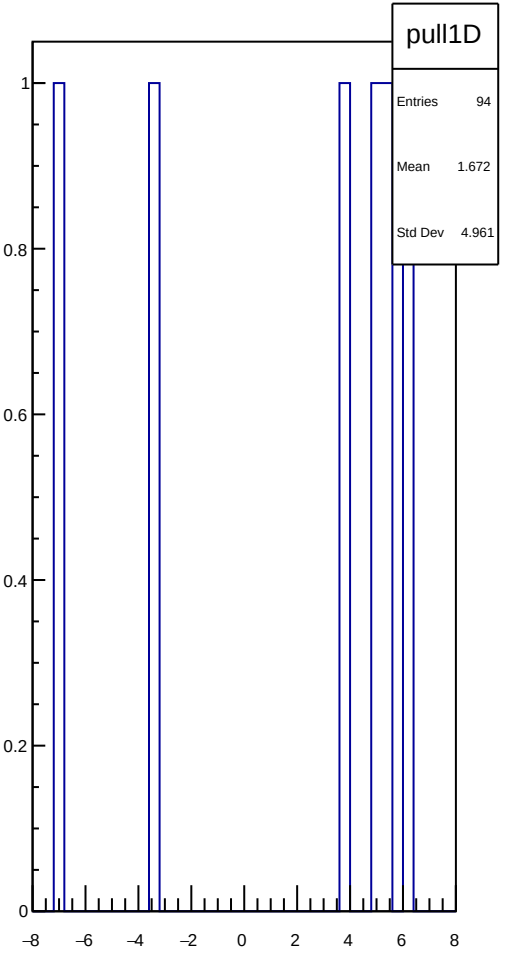

yield_bpm4eY_rms vs run
χ² / ndf 2.296e+04 / 93
p0 0.009553 ± 7.176e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

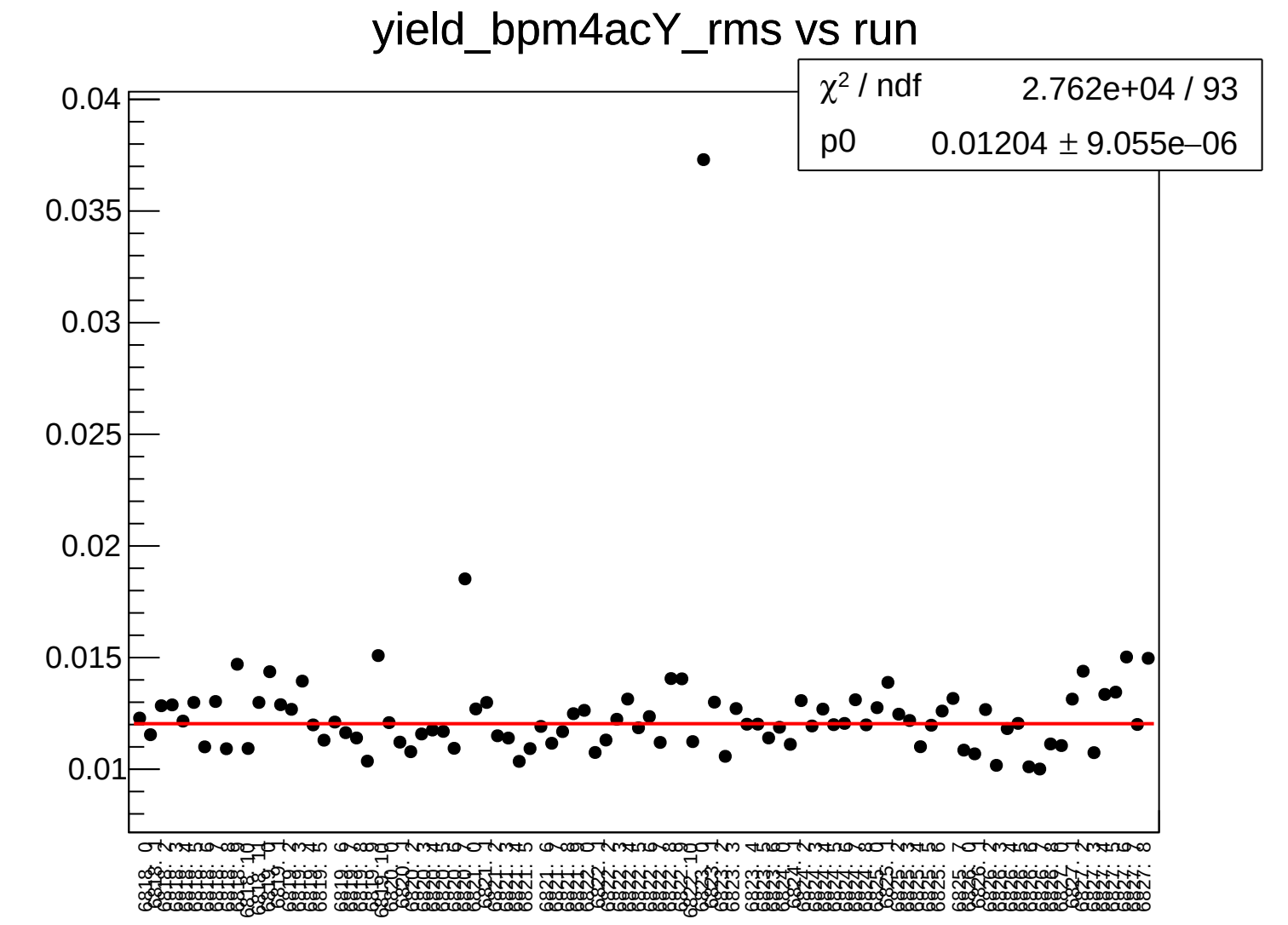

yield_bpm4acX_mean vs run
χ² / ndf 2.877e+05 / 93
p0 −1.046 ± 2.317e−05
pull
Entries 94
Mean 57.91
Std Dev 30.34

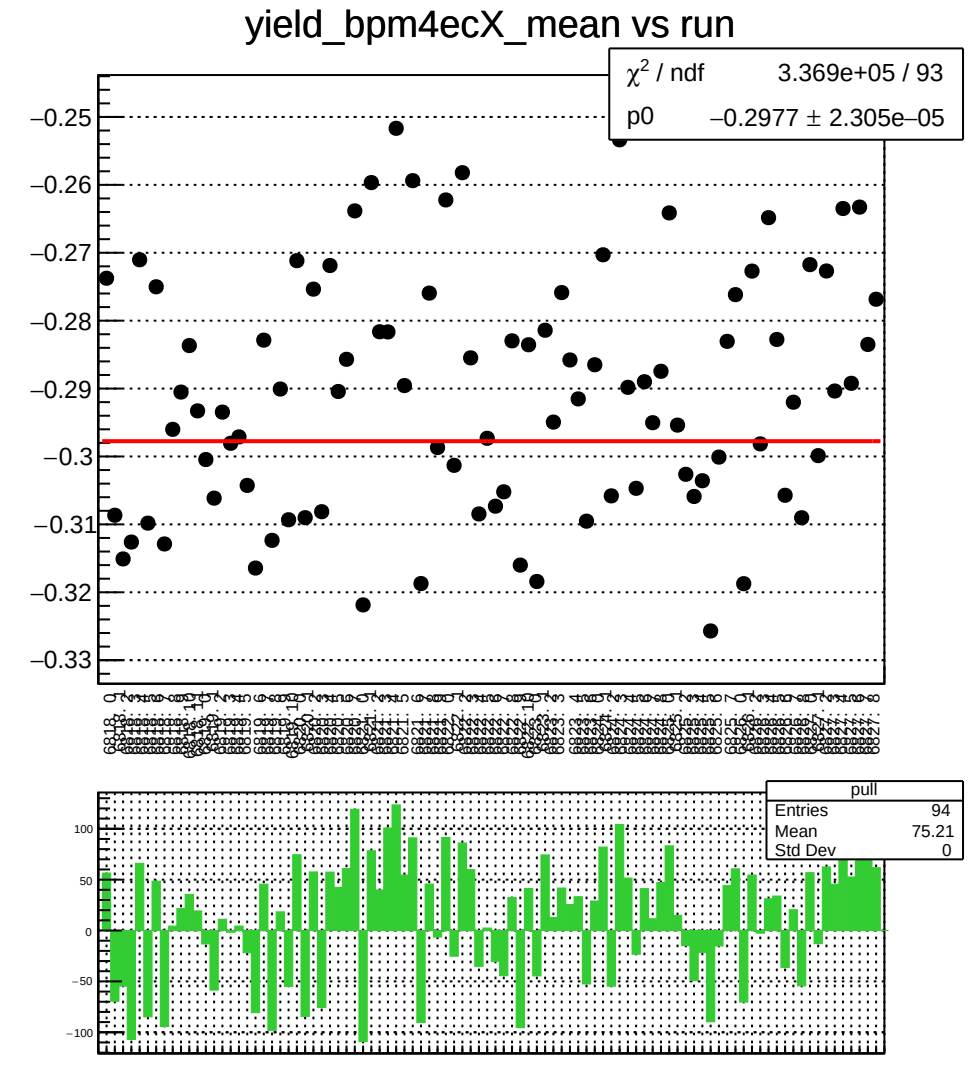

pull1D
Entries 94
Mean 0.245
Std Dev 4.229

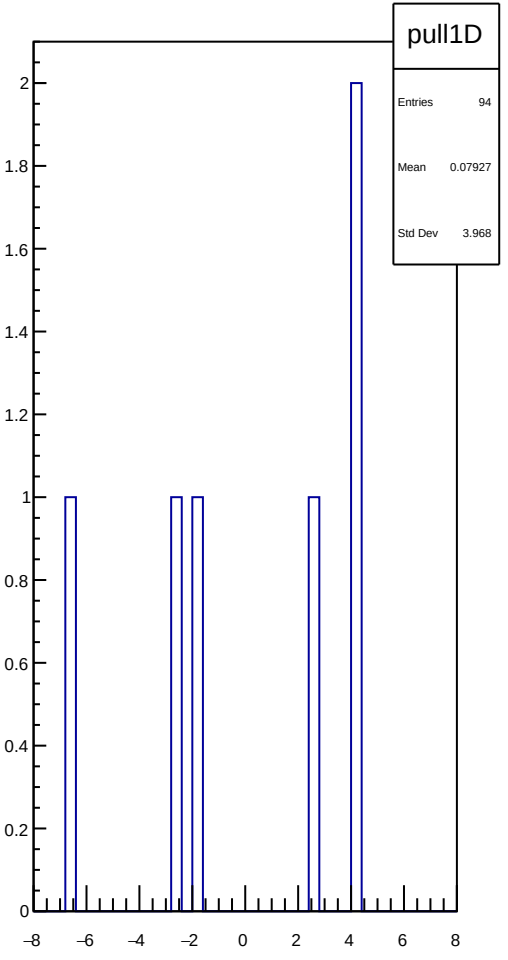

yield_bpm4acX_rms vs run
χ² / ndf 2.833e+05 / 93
p0 0.02015 ± 1.639e–05
0.1
0.08
0.06
0.04
0.02

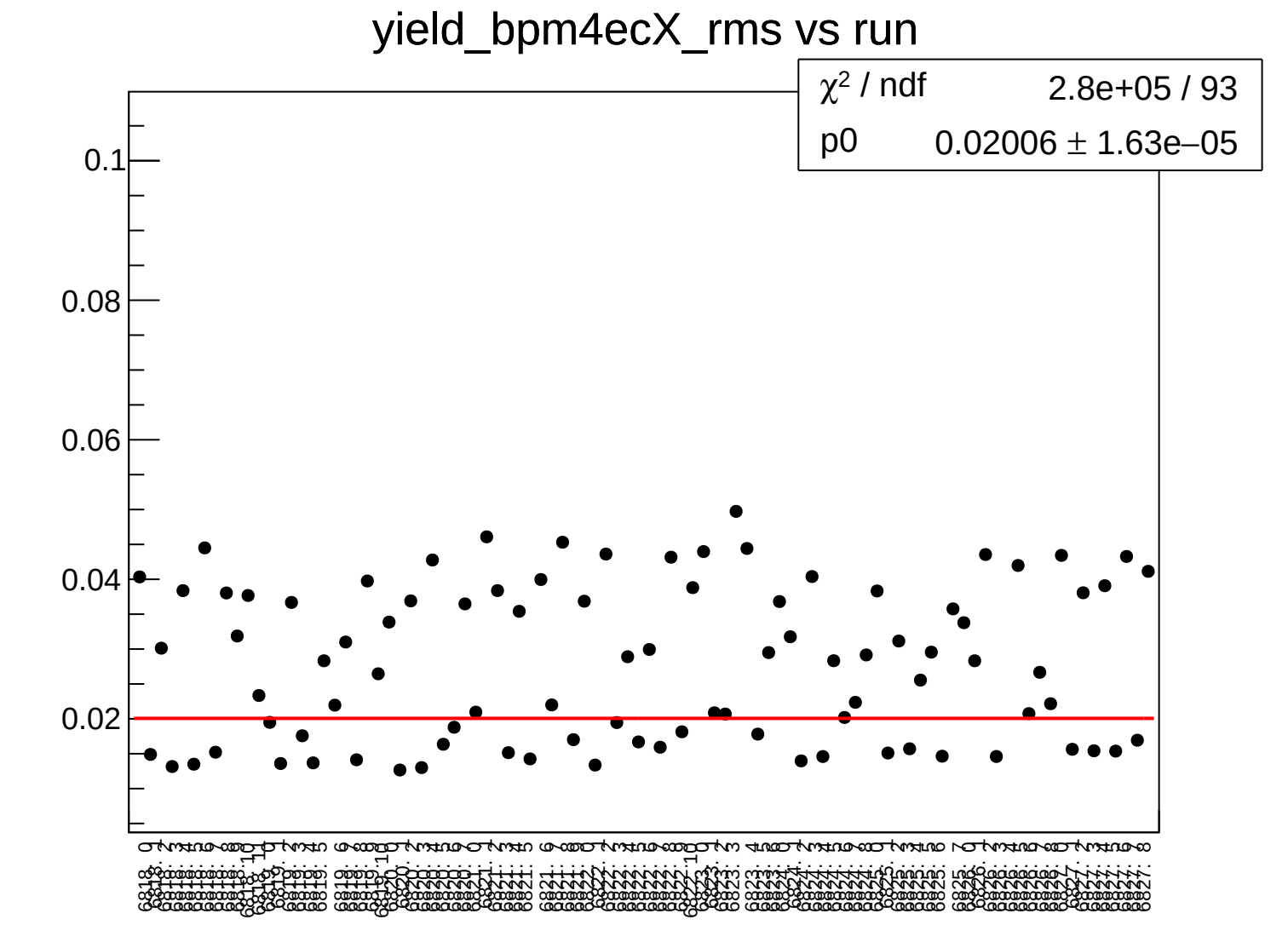

yield_bpm4acY_mean vs run
χ² / ndf 2.278e+05 / 93
p0 0.6816 ± 1.281e−05
0.705
0.7
0.695
0.69
0.685
0.68
0.675
0.67
0.665
pull
Entries 94
Mean 7720
Std Dev 0
150
100
50
0
−50
−100

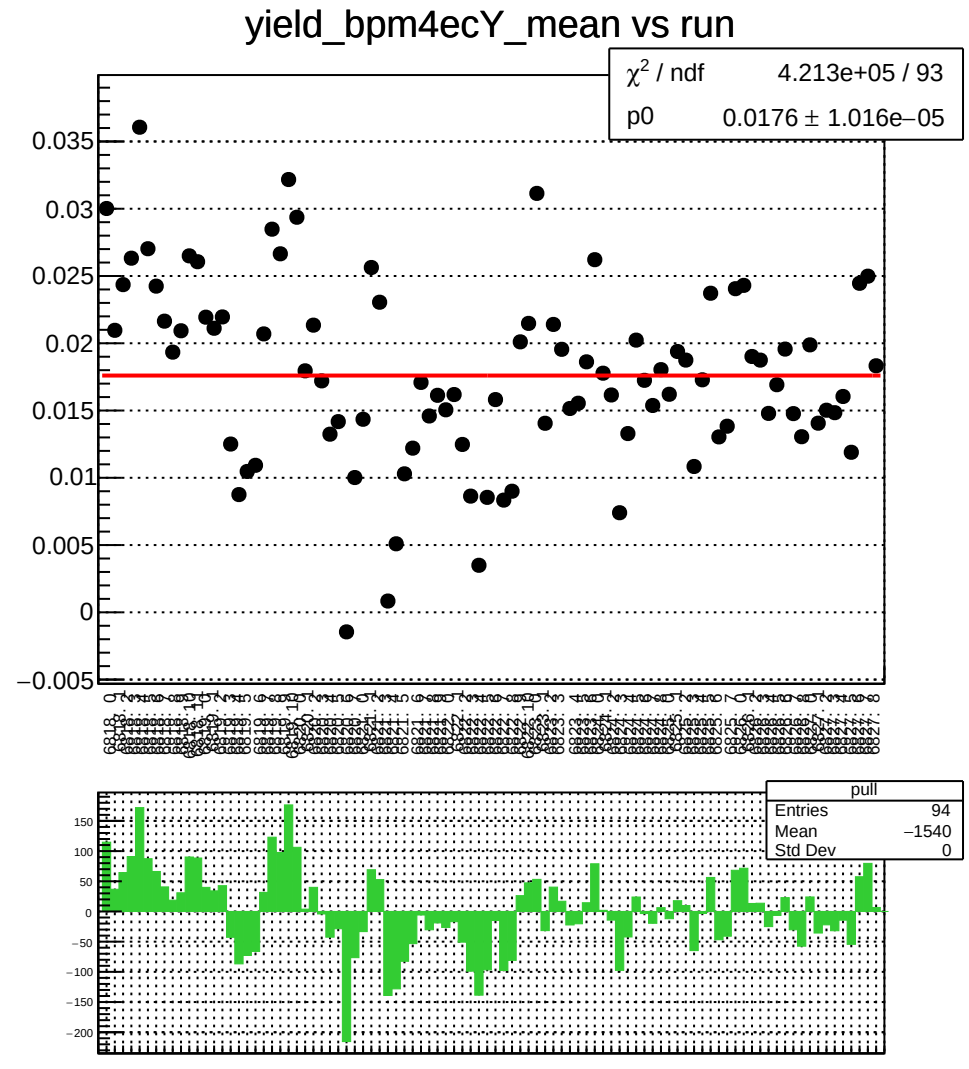

pull1D
Entries 94
Mean 1.672
Std Dev 4.961
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

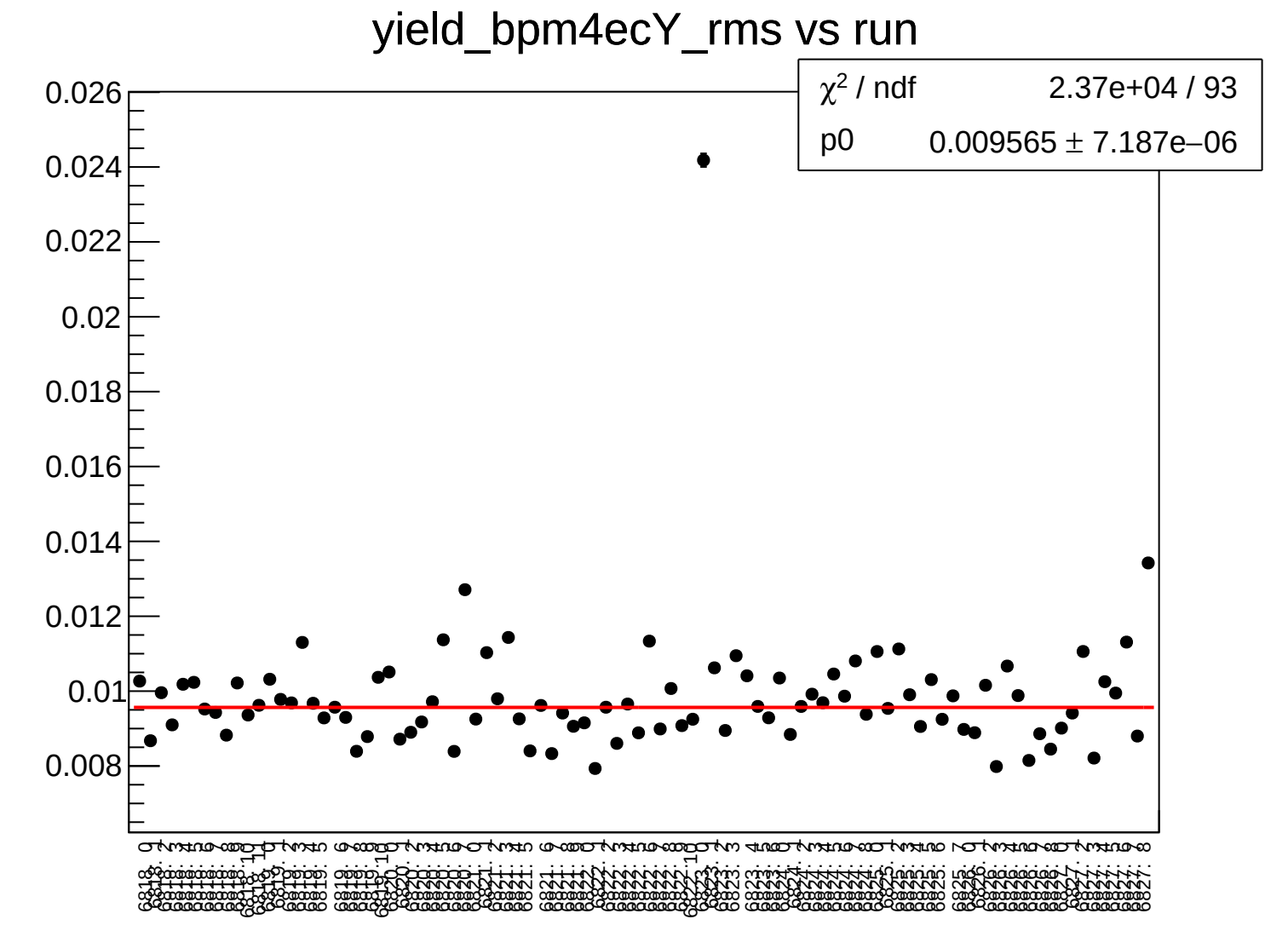

yield_bpm4acY_rms vs run
χ² / ndf 2.762e+04 / 93
p0 0.01204 ± 9.055e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

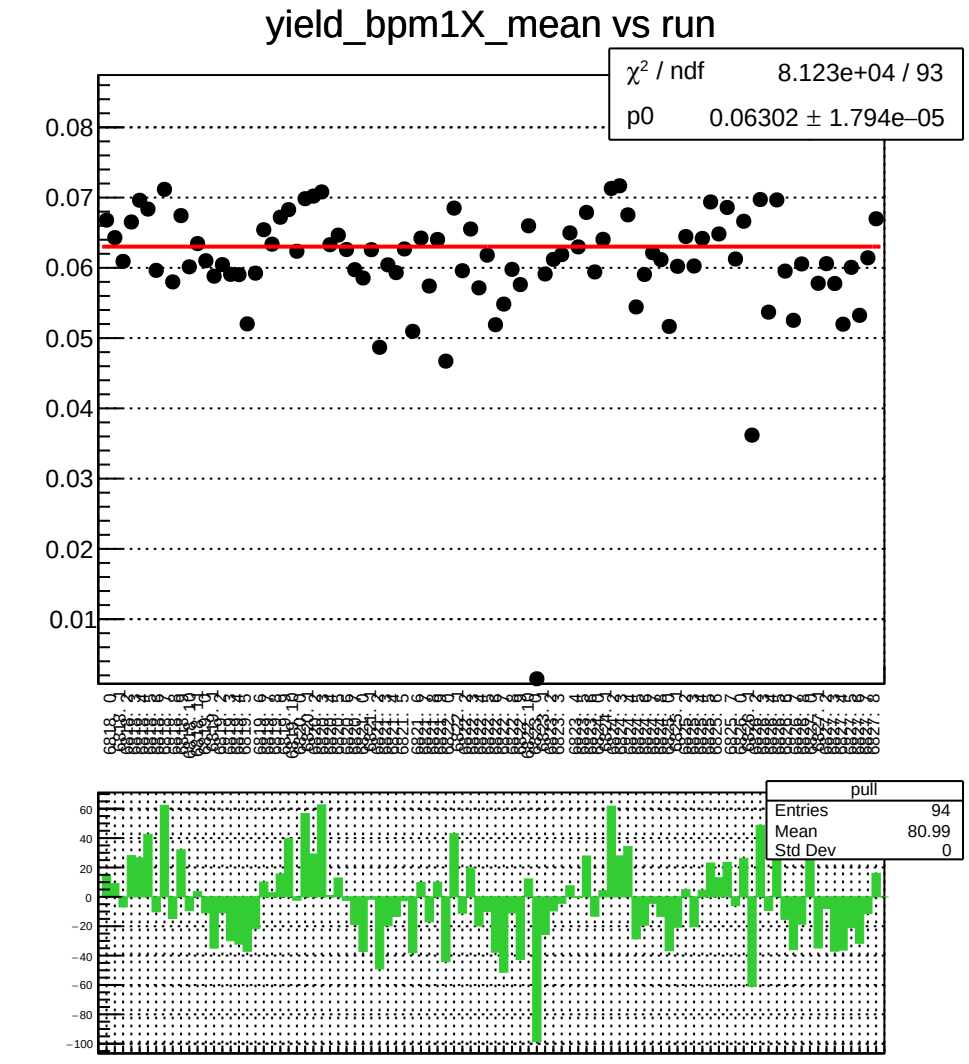

yield_bpm4ecX_mean vs run
χ² / ndf 3.369e+05 / 93
p0 −0.2977 ± 2.305e−05
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 94
Mean 75.21
Std Dev 0
100
50
0
−50
−100

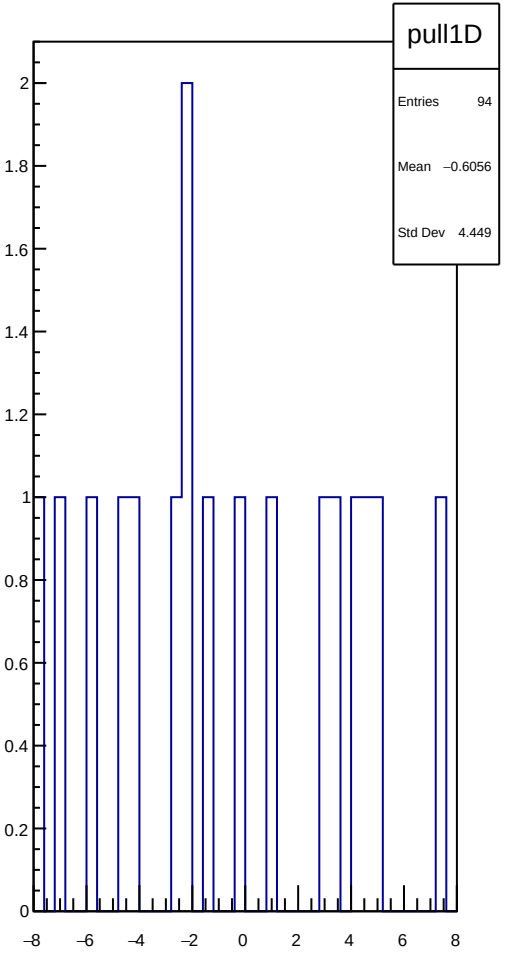

pull1D
Entries 94
Mean 0.07927
Std Dev 3.968
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

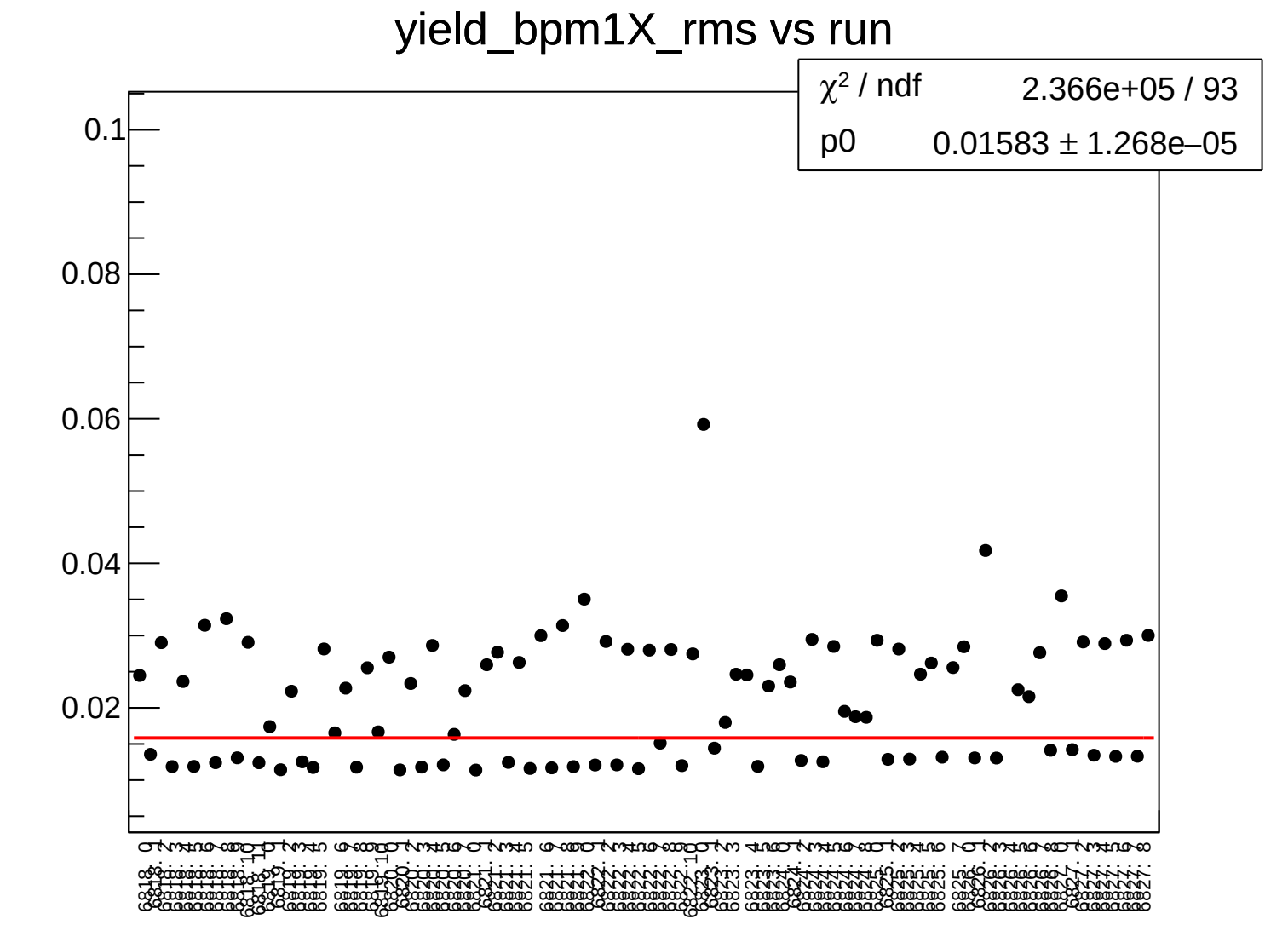

yield_bpm4ecX_rms vs run
χ² / ndf 2.8e+05 / 93
p0 0.02006 ± 1.63e−05
0.1
0.08
0.06
0.04
0.02

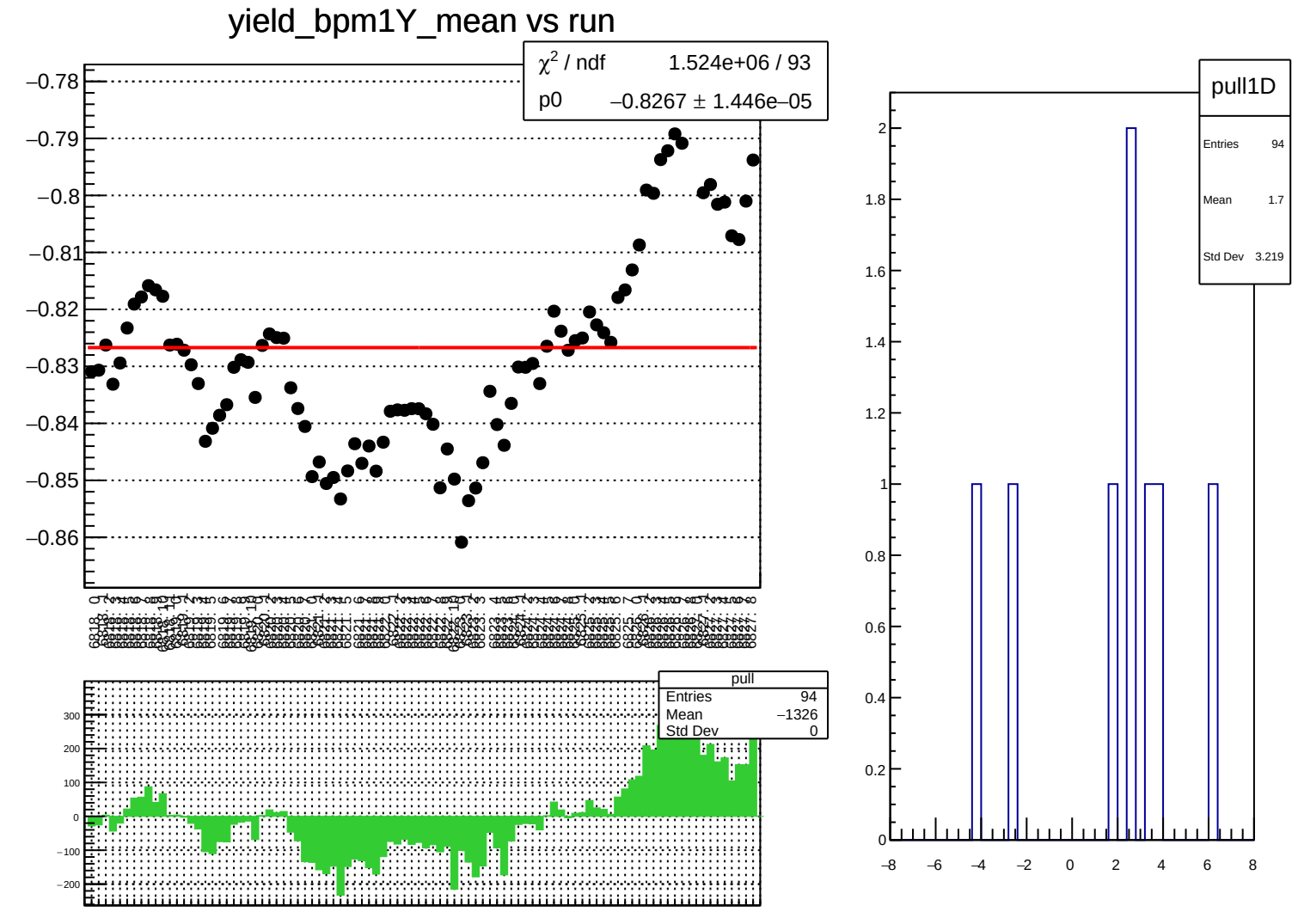

yield_bpm4ecY_mean vs run
χ² / ndf 4.213e+05 / 93
p0 0.0176 ± 1.016e−05
pull
Entries 94
Mean −1540
Std Dev 0
pull1D
Entries 94
Mean −0.5156
Std Dev 4.878

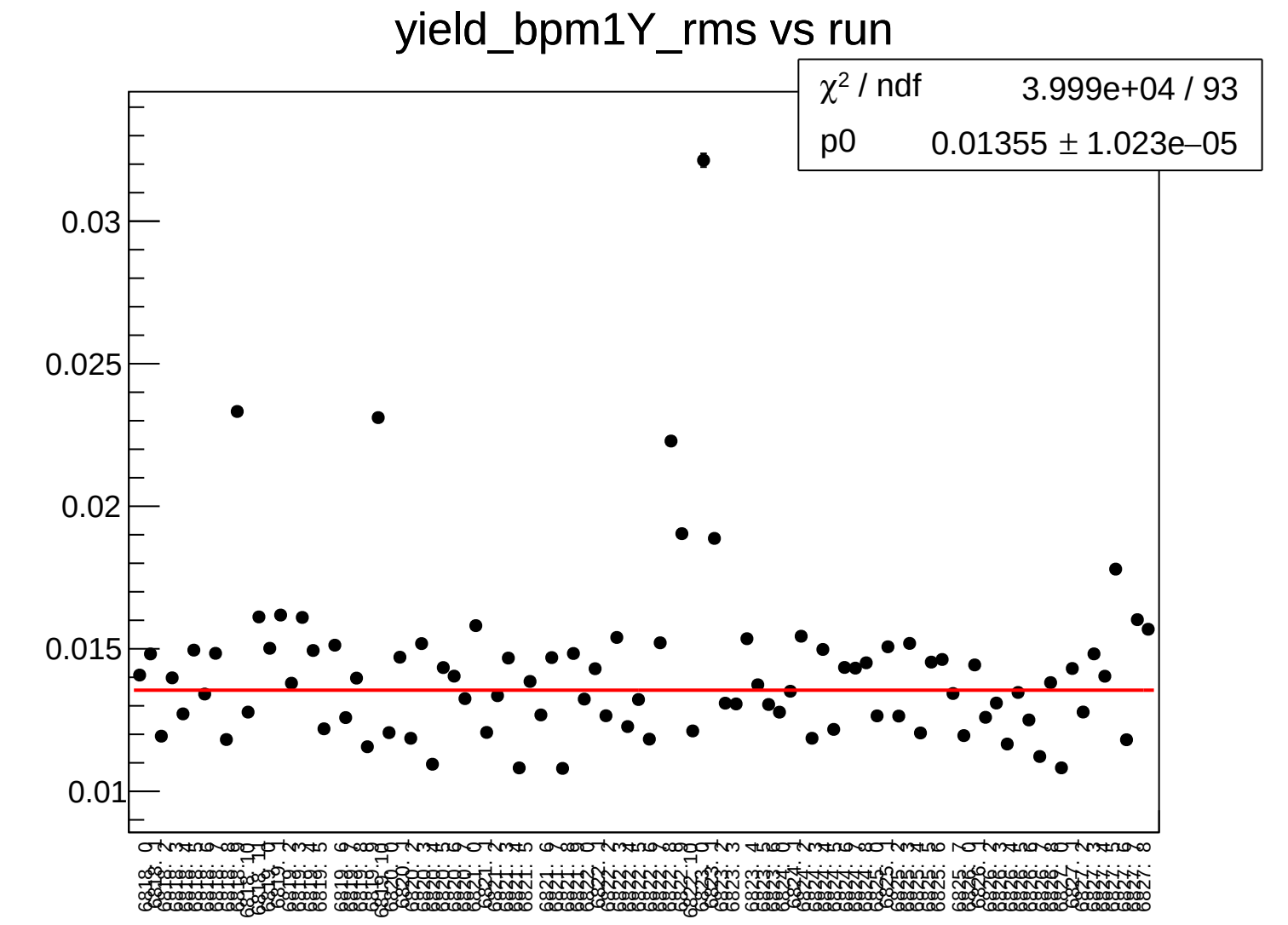

yield_bpm4ecY_rms vs run
χ² / ndf 2.37e+04 / 93
p0 0.009565 ± 7.187e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

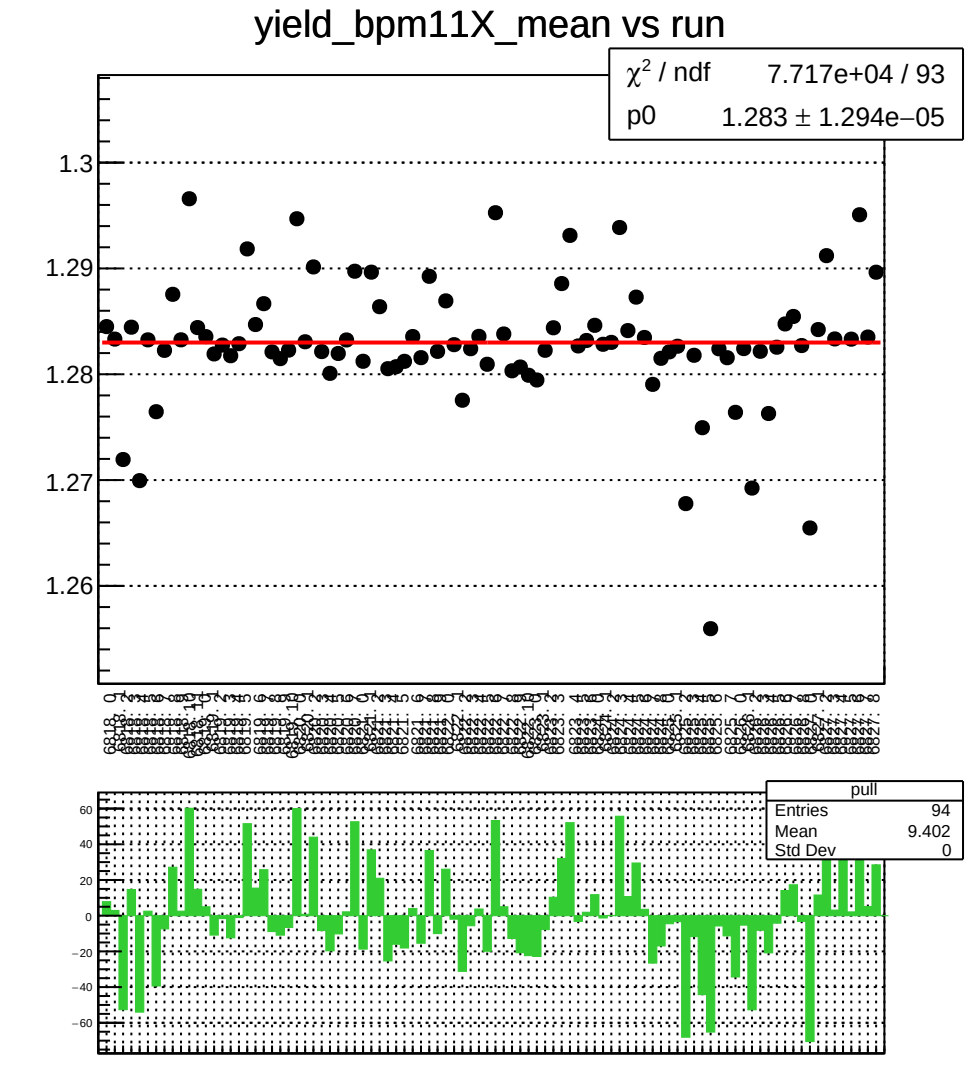

yield_bpm1X_mean vs run
χ² / ndf 8.123e+04 / 93
p0 0.06302 ± 1.794e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 94
Mean 80.99
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100

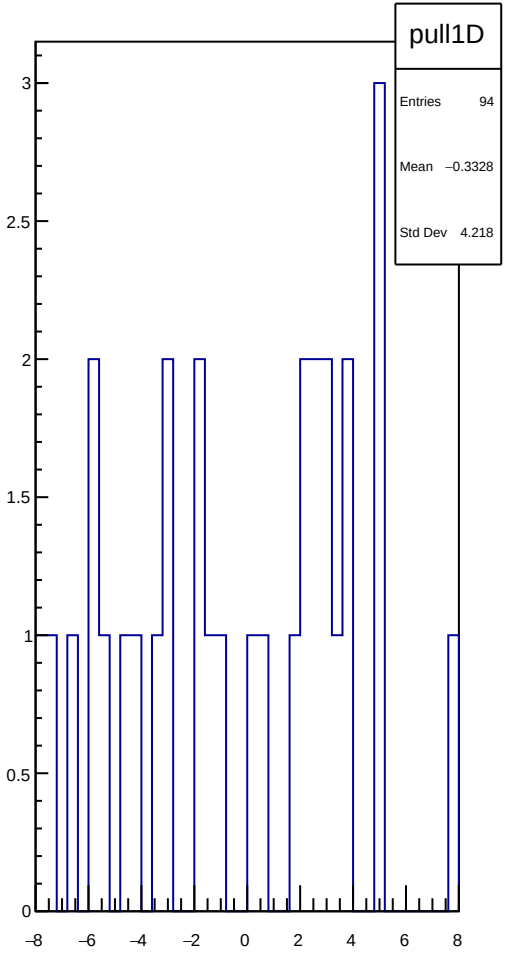

pull1D
Entries 94
Mean −0.6056
Std Dev 4.449
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

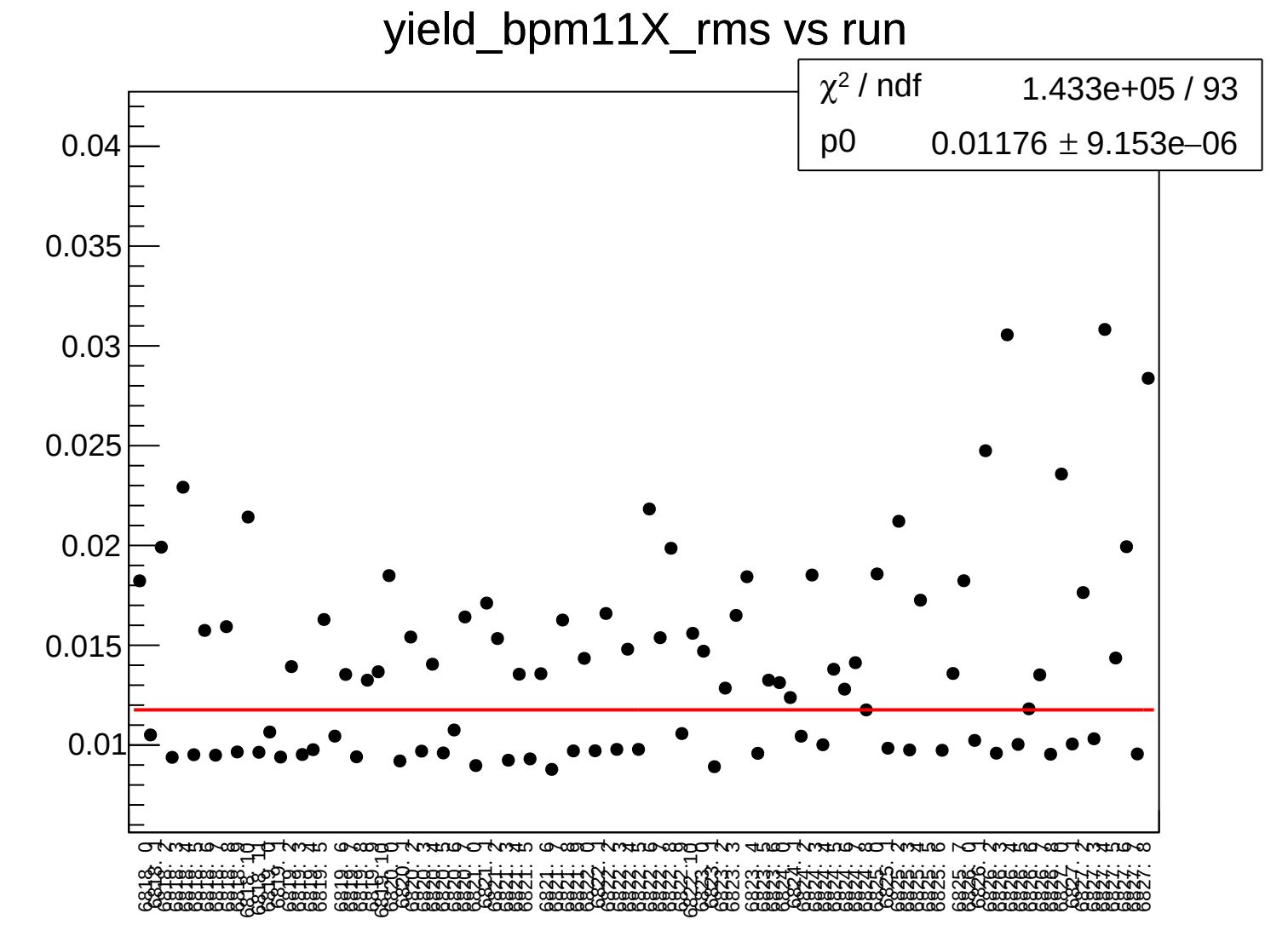

yield_bpm1X_rms vs run
χ² / ndf 2.366e+05 / 93
p0 0.01583 ± 1.268e–05
0.1
0.08
0.06
0.04
0.02

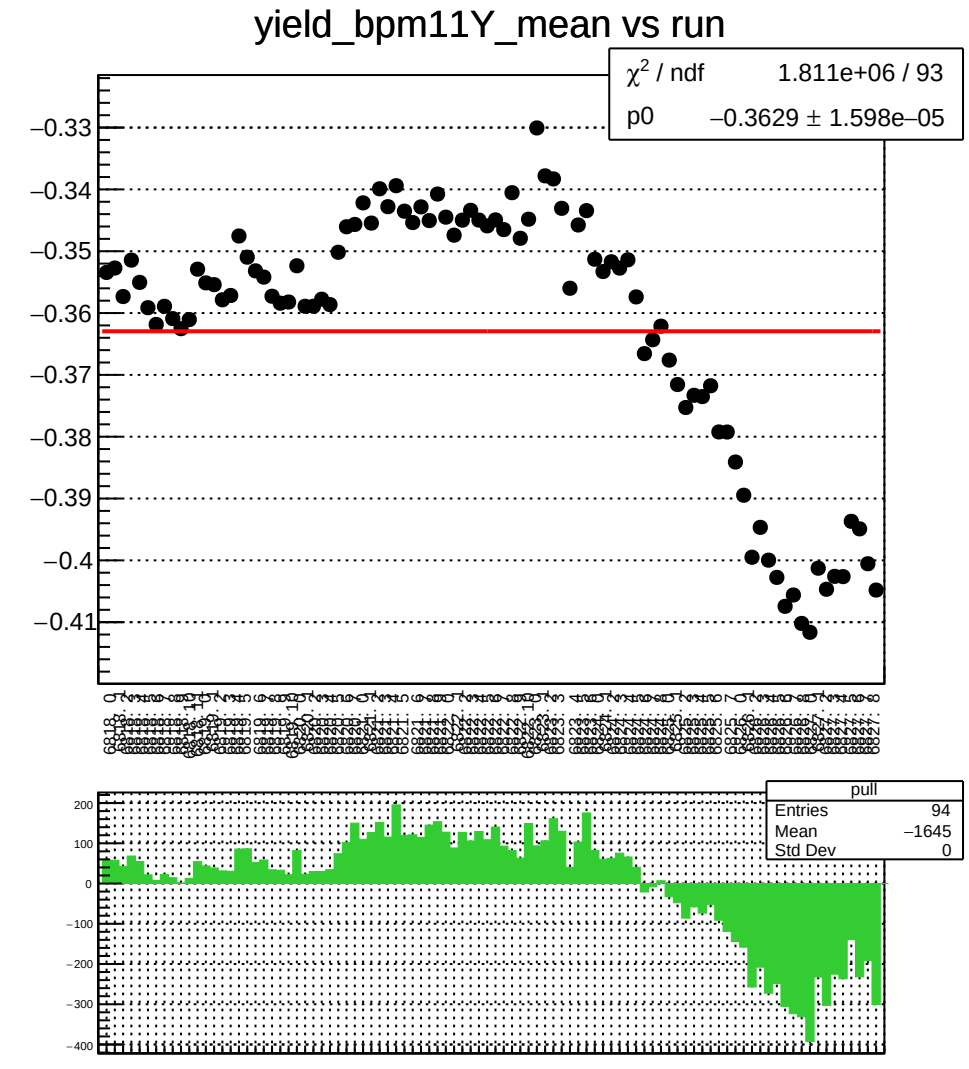

yield_bpm1Y_mean vs run
χ² / ndf 1.524e+06 / 93
p0 −0.8267 ± 1.446e−05
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
−0.86
pull
Entries 94
Mean −1326
Std Dev 0
300
200
100
0
−100
−200
pull1D
Entries 94
Mean 1.7
Std Dev 3.219
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

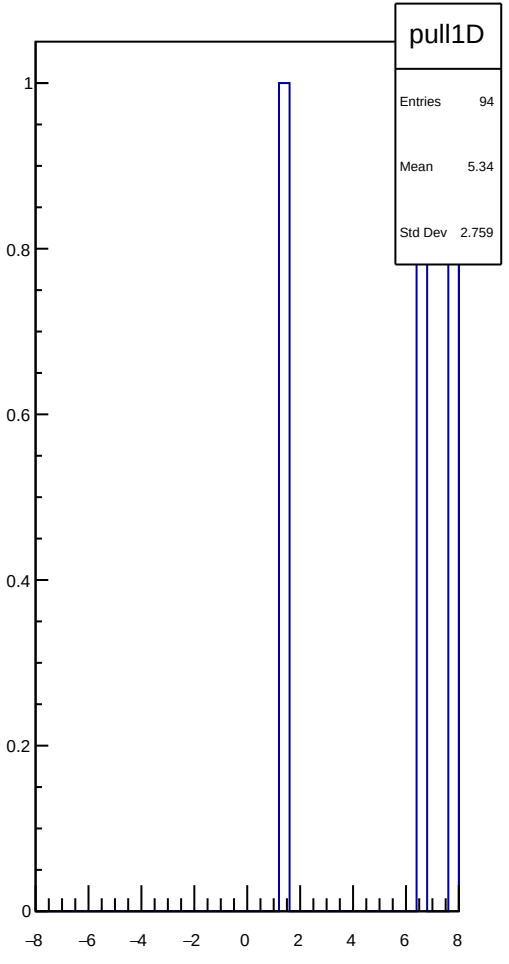

yield_bpm1Y_rms vs run
χ² / ndf 3.999e+04 / 93
p0 0.01355 ± 1.023e–05
0.03
0.025
0.02
0.015
0.01

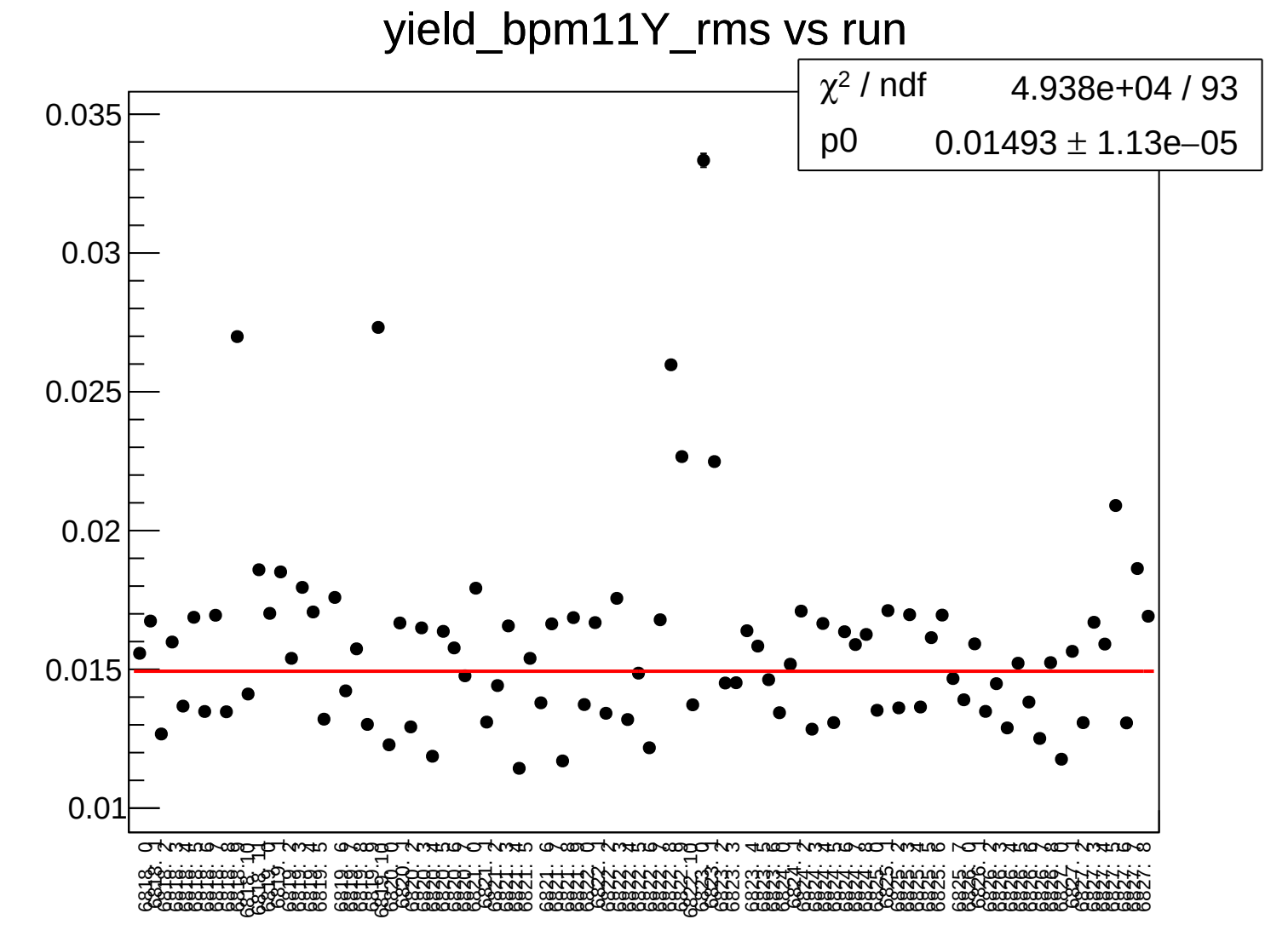

yield_bpm11X_mean vs run
χ² / ndf 7.717e+04 / 93
p0 1.283 ± 1.294e−05
1.3
1.29
1.28
1.27
1.26
pull
Entries 94
Mean 9.402
Std Dev 0
60
40
20
0
−20
−40
−60

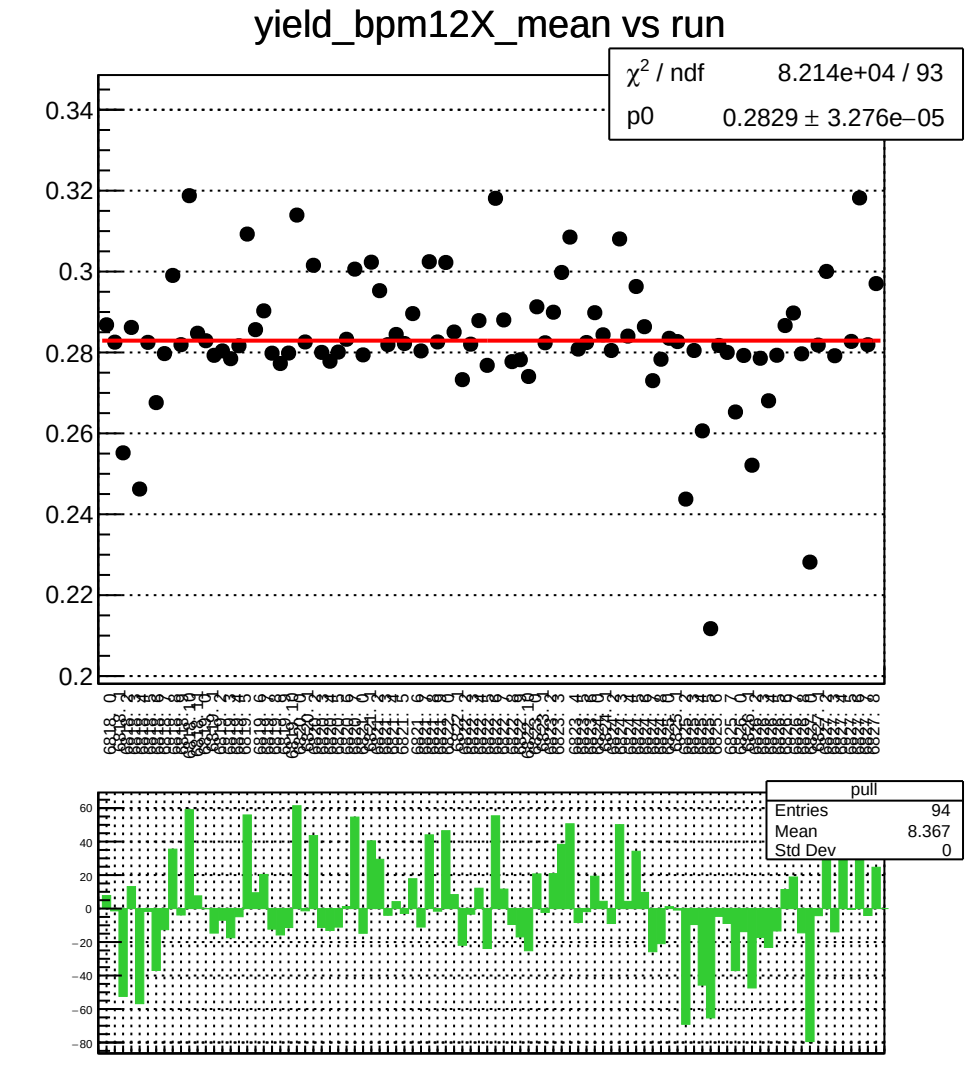

pull1D
Entries 94
Mean −0.3328
Std Dev 4.218
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

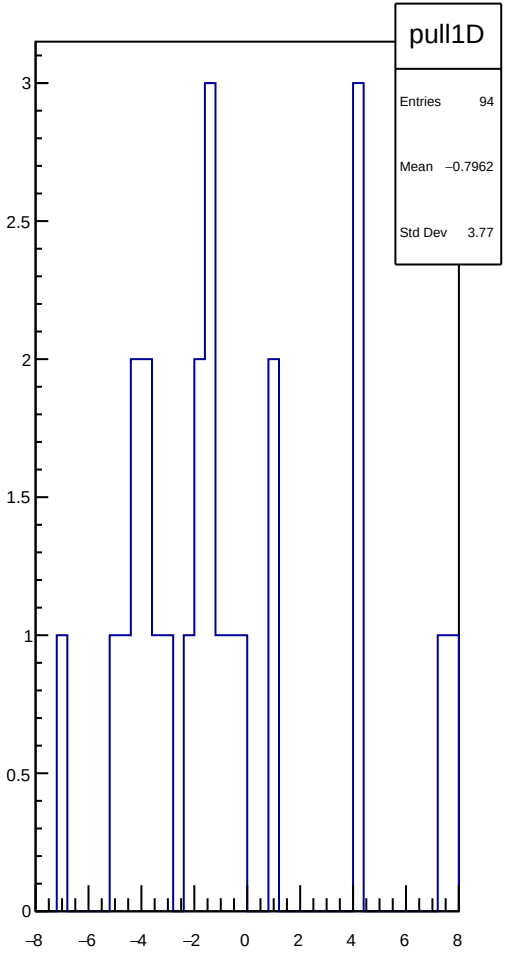

yield_bpm11X_rms vs run
χ² / ndf 1.433e+05 / 93
p0 0.01176 ± 9.153e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

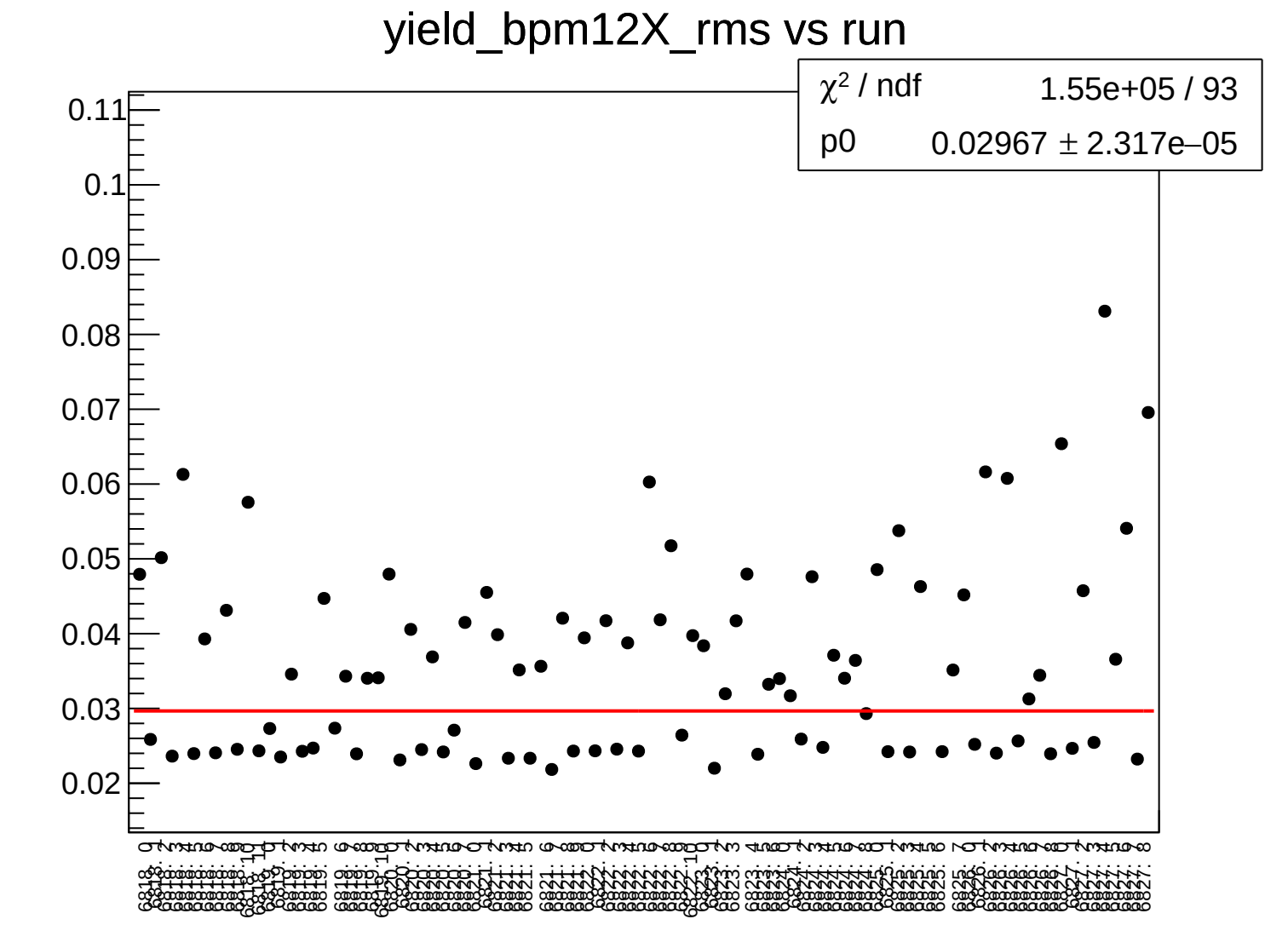

yield_bpm11Y_mean vs run
χ² / ndf 1.811e+06 / 93
p0 −0.3629 ± 1.598e−05
−0.33
−0.34
−0.35
−0.36
−0.37
−0.38
−0.39
−0.4
−0.41
pull
Entries 94
Mean −1645
Std Dev 0
200
100
0
−100
−200
−300
−400

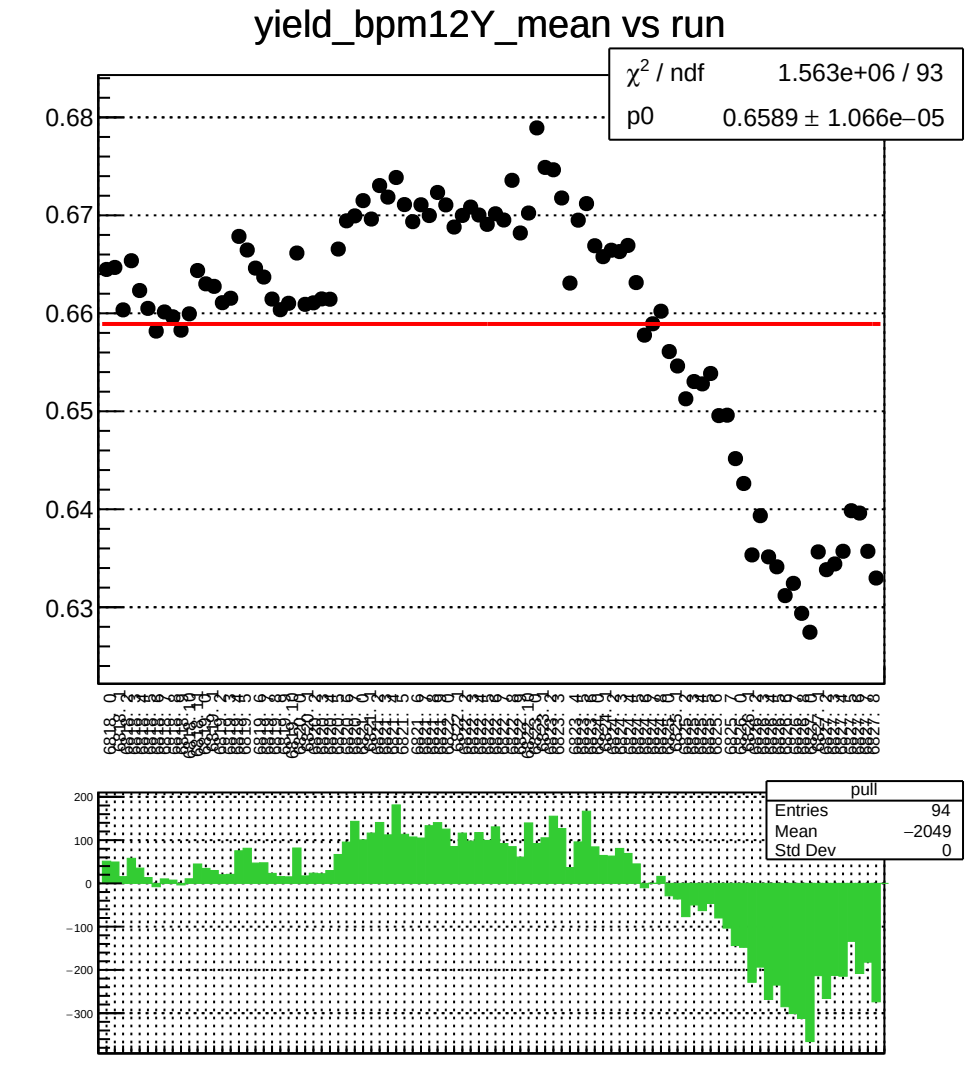

pull1D
Entries 94
Mean 5.34
Std Dev 2.759
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

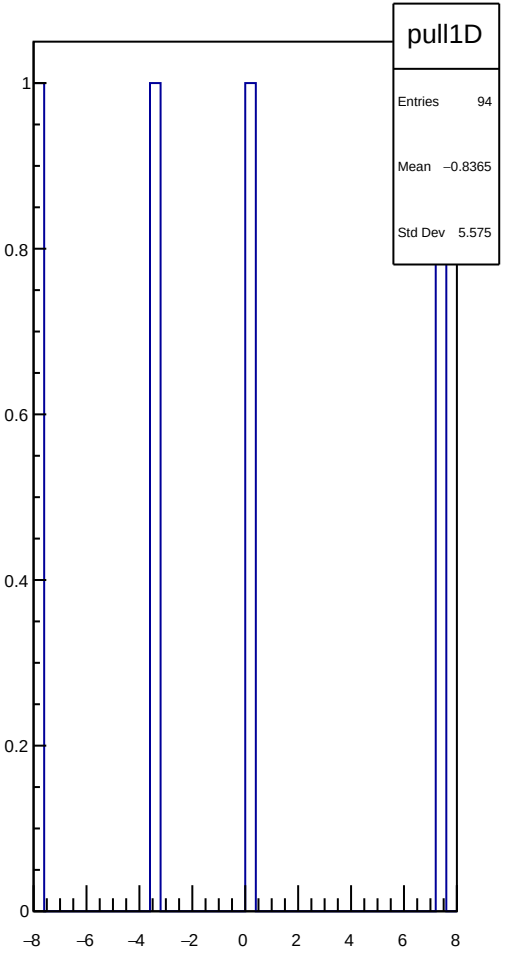

yield_bpm11Y_rms vs run
χ² / ndf 4.938e+04 / 93
p0 0.01493 ± 1.13e−05
0.035
0.03
0.025
0.02
0.015
0.01

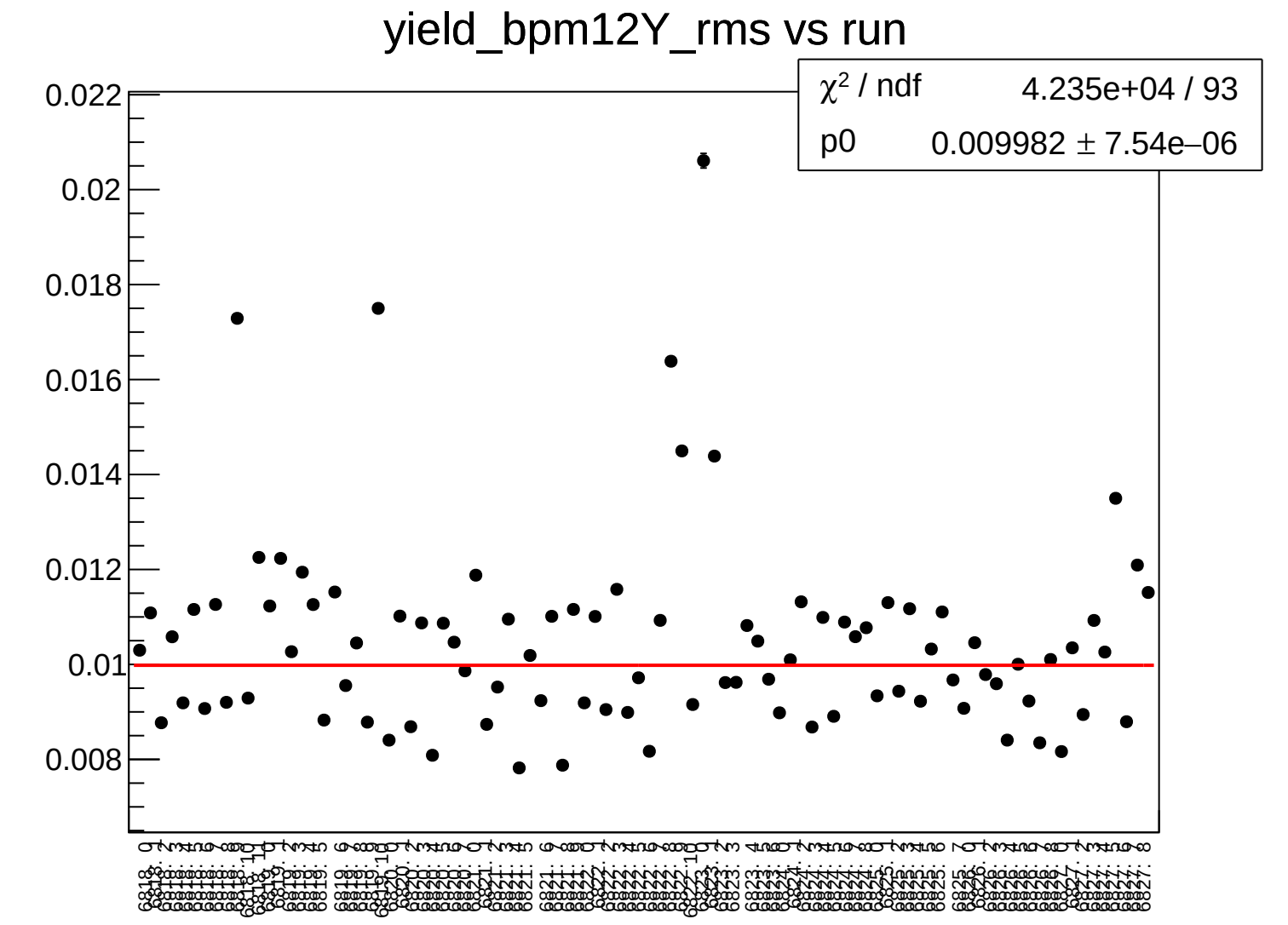

yield_bpm12X_mean vs run
χ² / ndf 8.214e+04 / 93
p0 0.2829 ± 3.276e−05
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 94
Mean 8.367
Std Dev 0
60
40
20
0
−20
−40
−60
−80

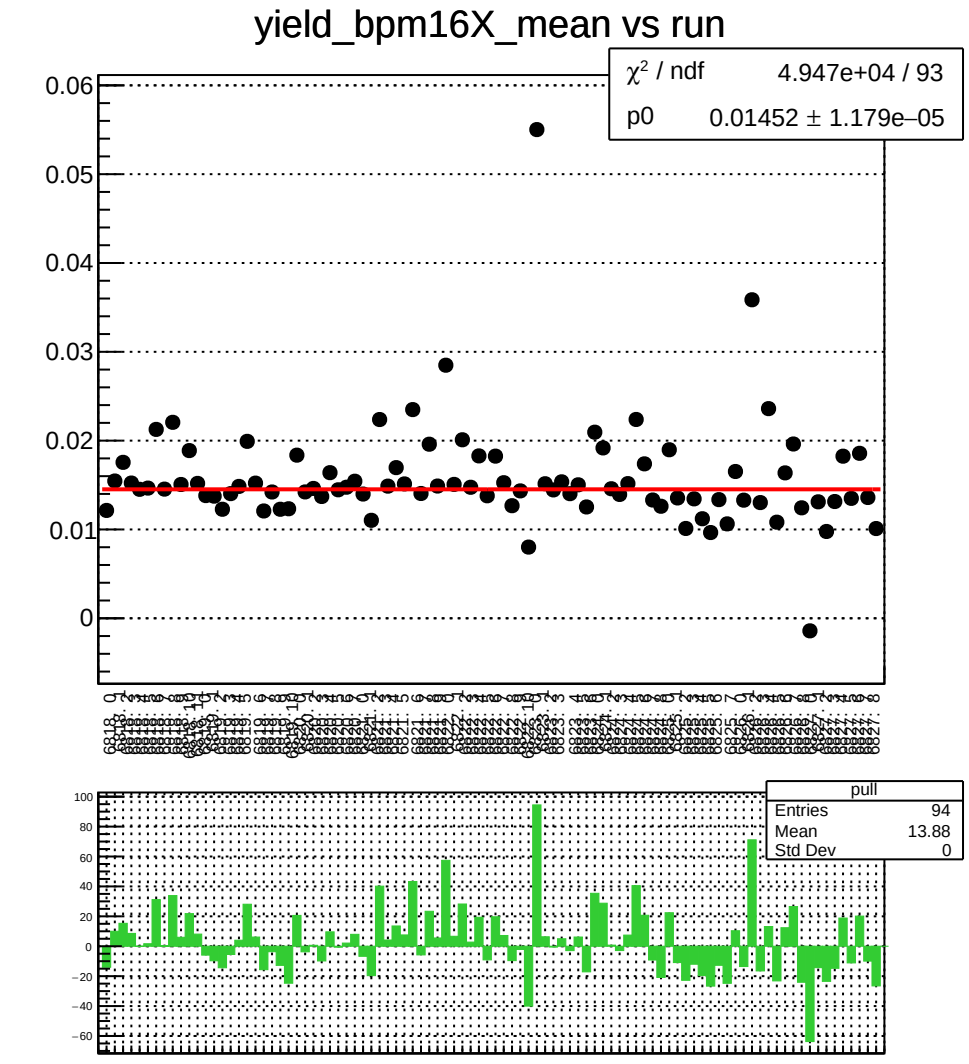

pull1D
Entries 94
Mean −0.7962
Std Dev 3.77
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

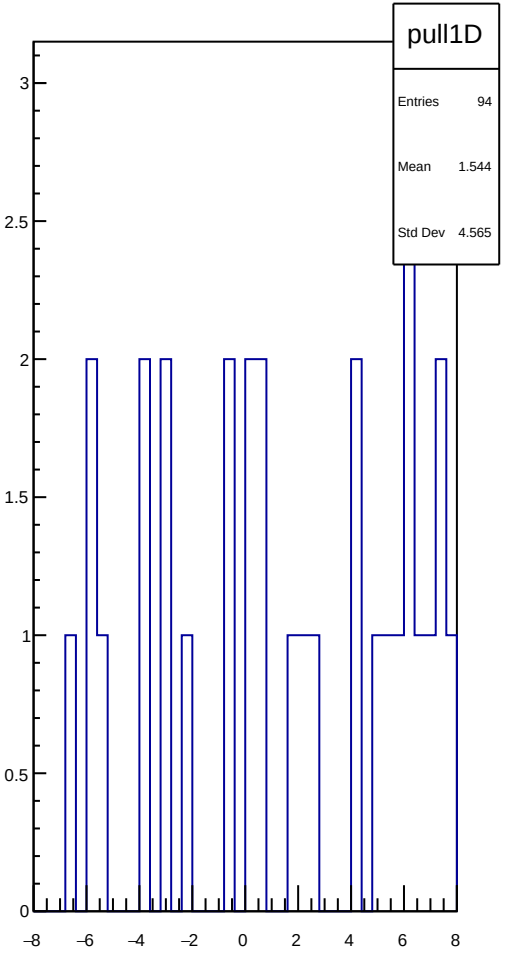

yield_bpm12X_rms vs run
χ² / ndf 1.55e+05 / 93
p0 0.02967 ± 2.317e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

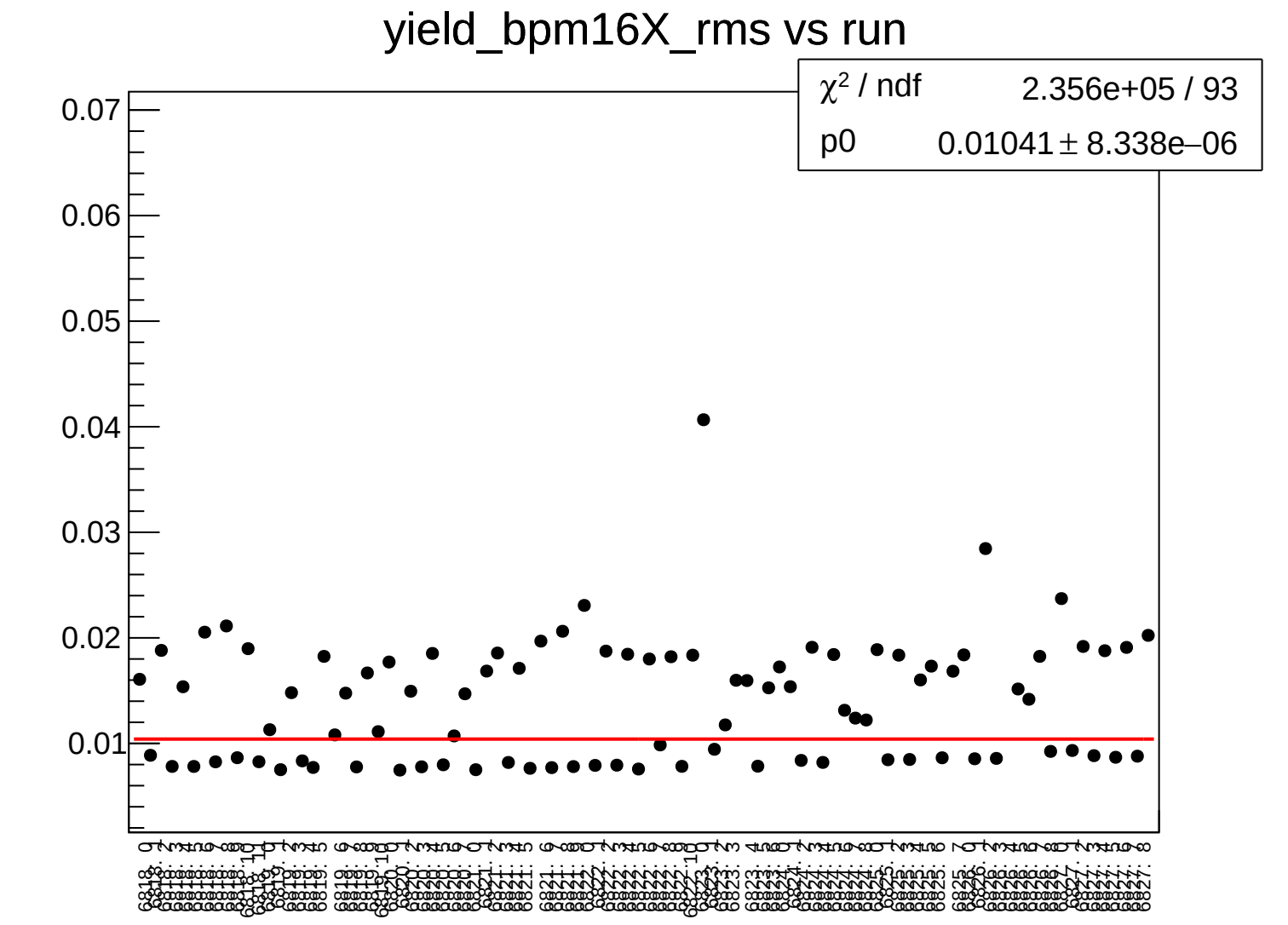

yield_bpm12Y_mean vs run
χ² / ndf 1.563e+06 / 93
p0 0.6589 ± 1.066e−05
0.68
0.67
0.66
0.65
0.64
0.63
pull
Entries 94
Mean −2049
Std Dev 0
200
100
0
−100
−200
−300

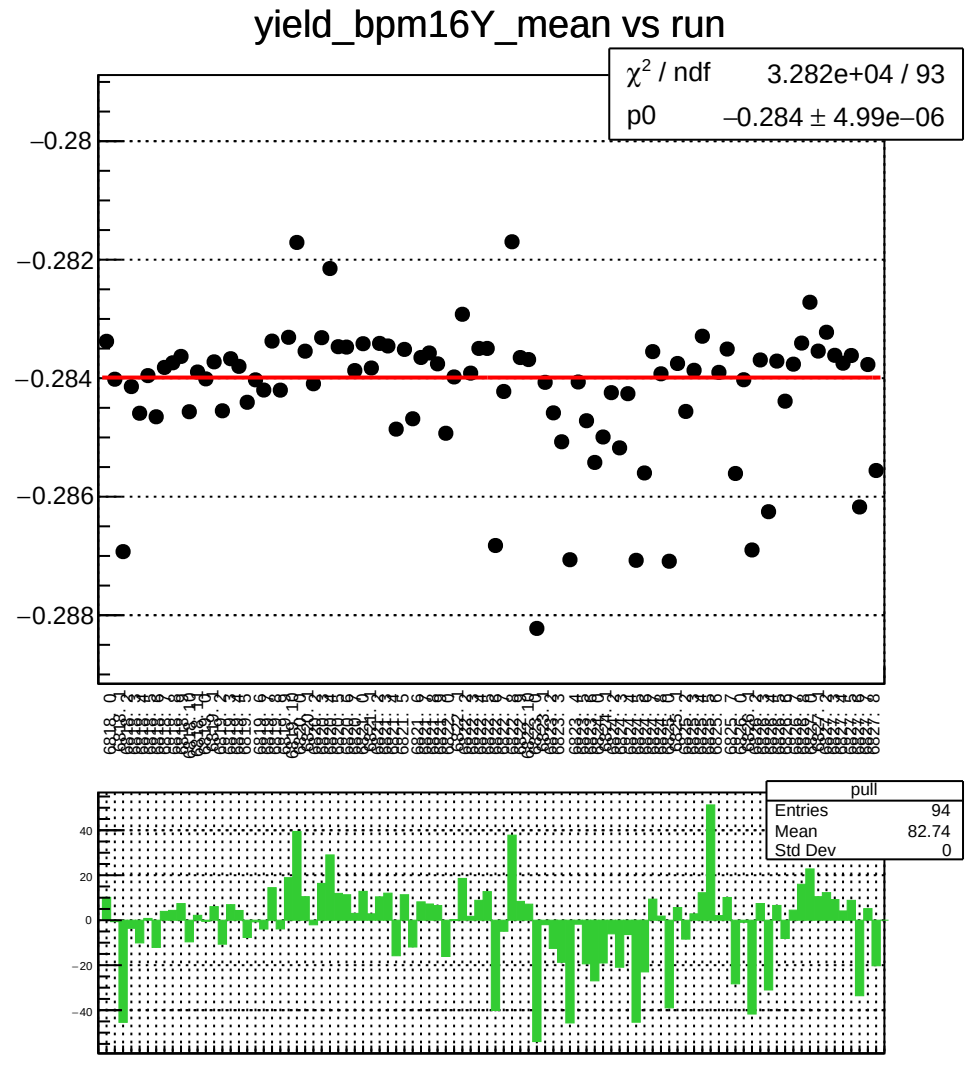

pull1D
Entries 94
Mean −0.8365
Std Dev 5.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

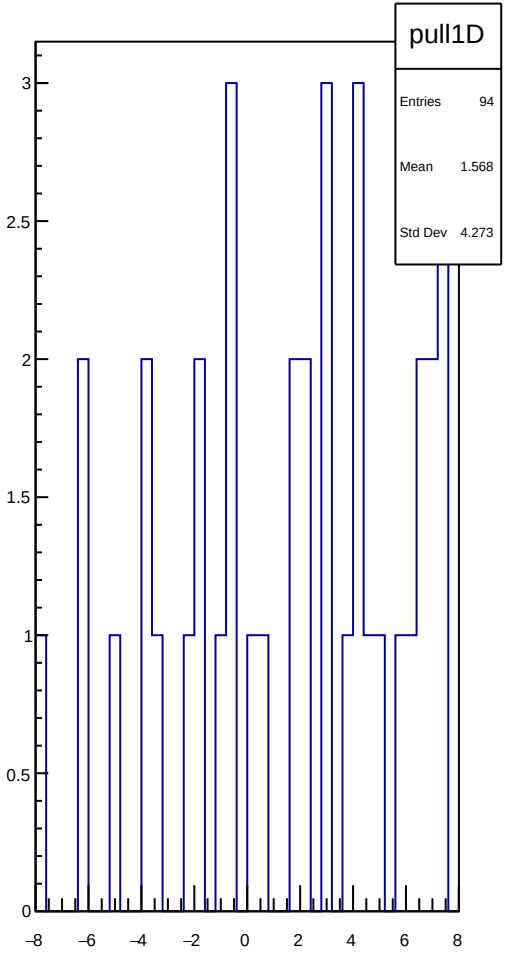

yield_bpm12Y_rms vs run
χ² / ndf 4.235e+04 / 93
p0 0.009982 ± 7.54e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

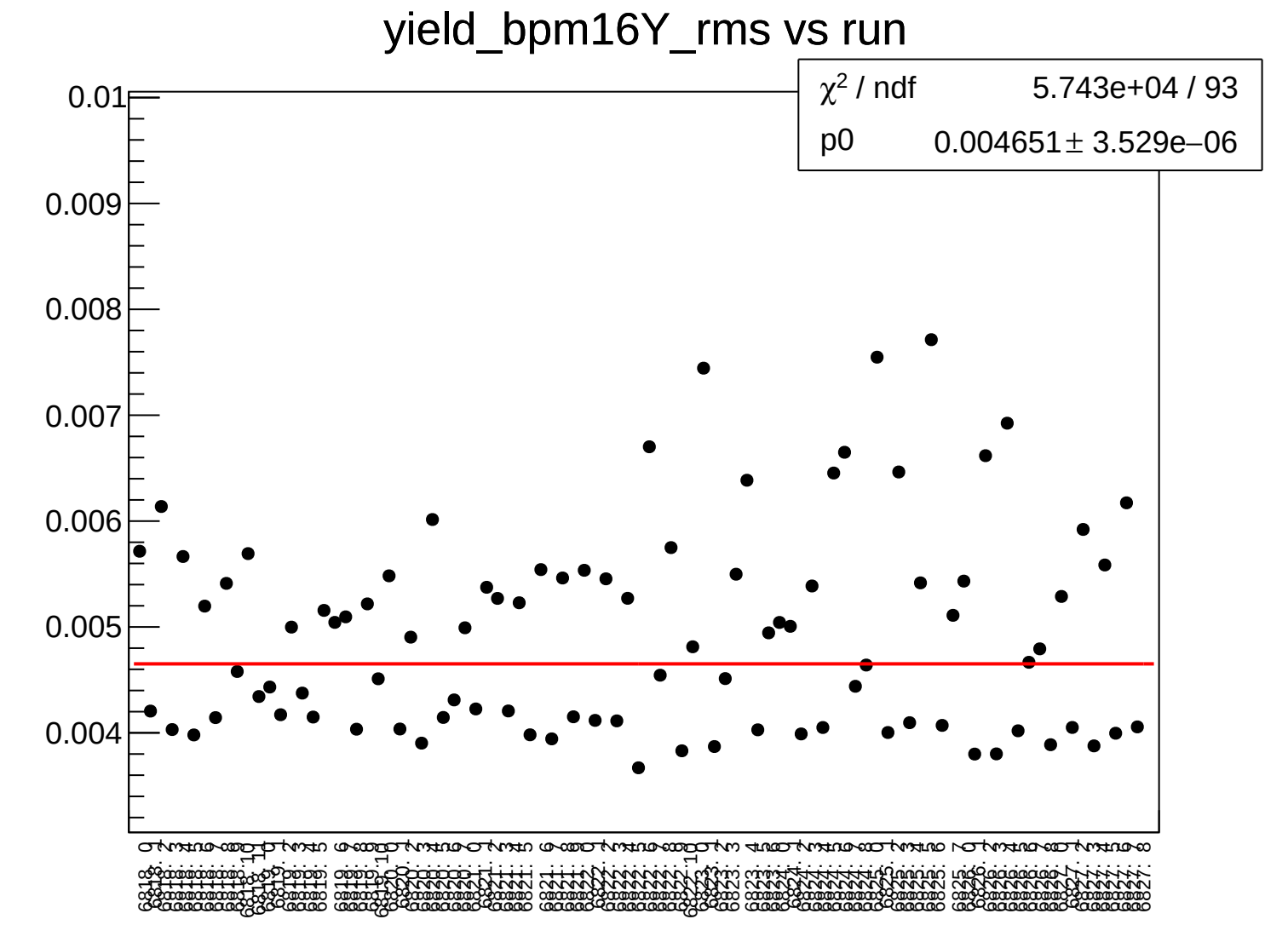

yield_bpm16X_mean vs run
χ² / ndf 4.947e+04 / 93
p0 0.01452 ± 1.179e−05
0.06
0.05
0.04
0.03
0.02
0.01
0
pull
Entries 94
Mean 13.88
Std Dev 0
100
80
60
40
20
0
−20
−40
−60

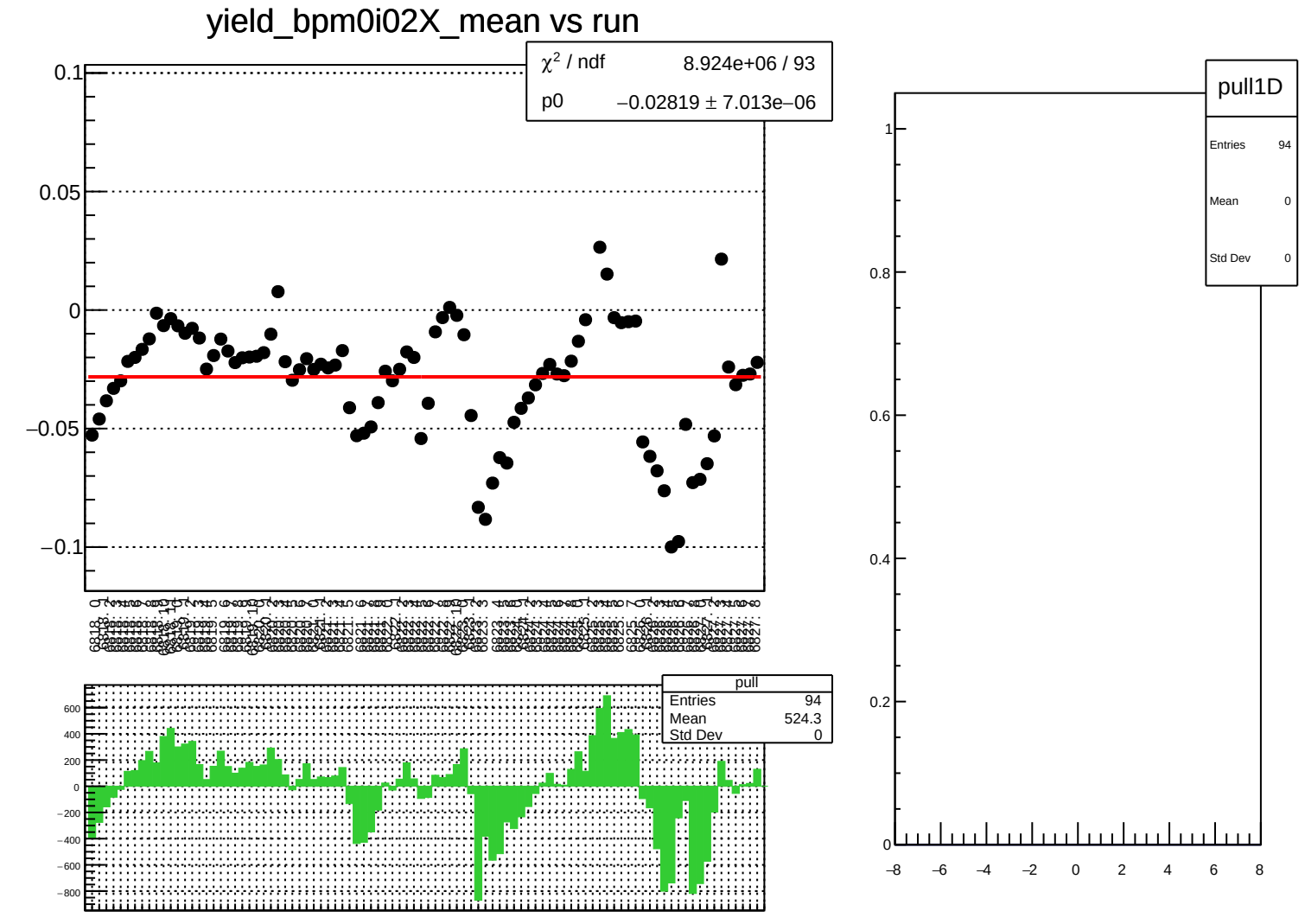

pull1D
Entries 94
Mean 1.544
Std Dev 4.565
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

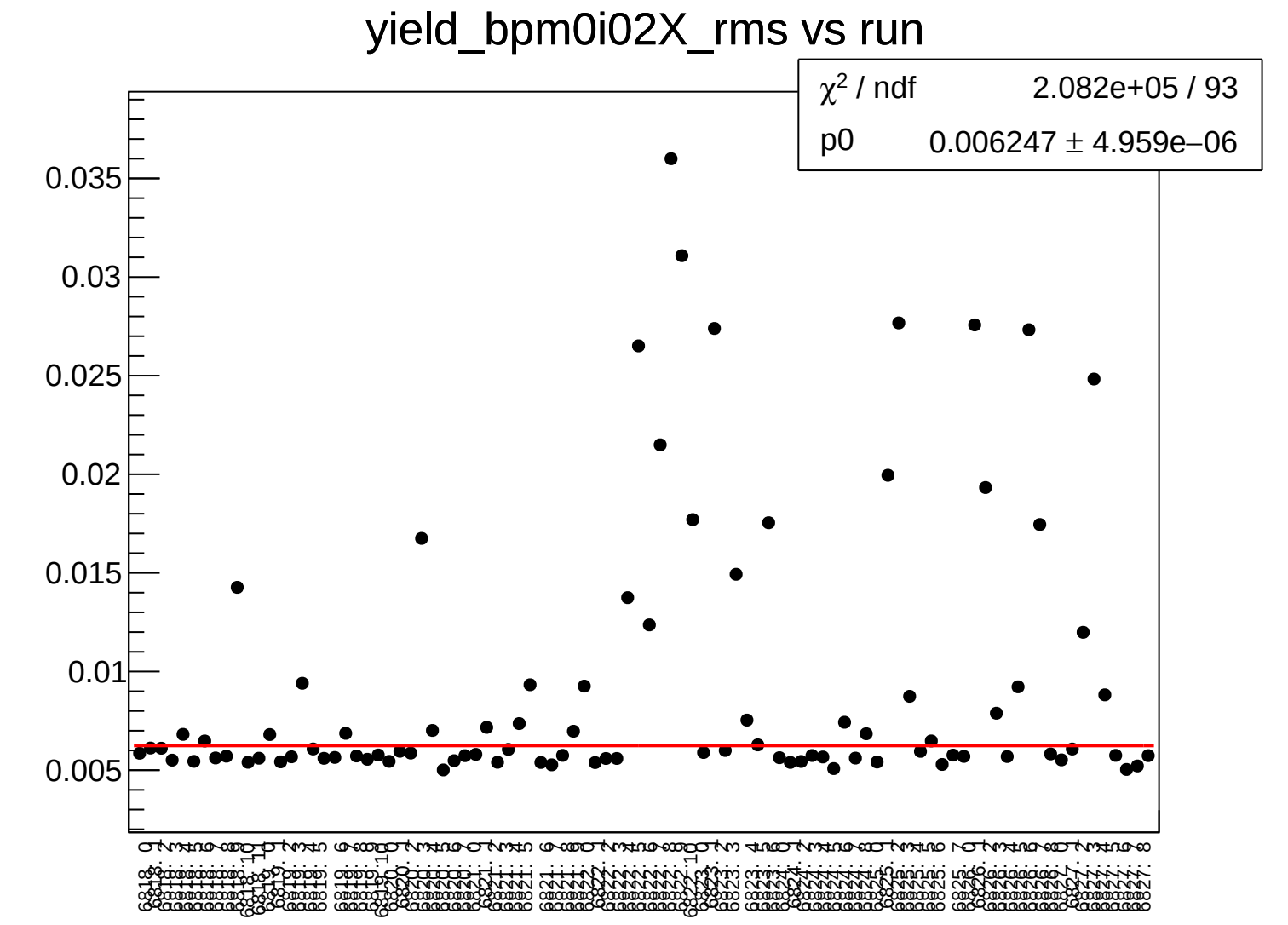

yield_bpm16X_rms vs run
χ² / ndf 2.356e+05 / 93
p0 0.01041 ± 8.338e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

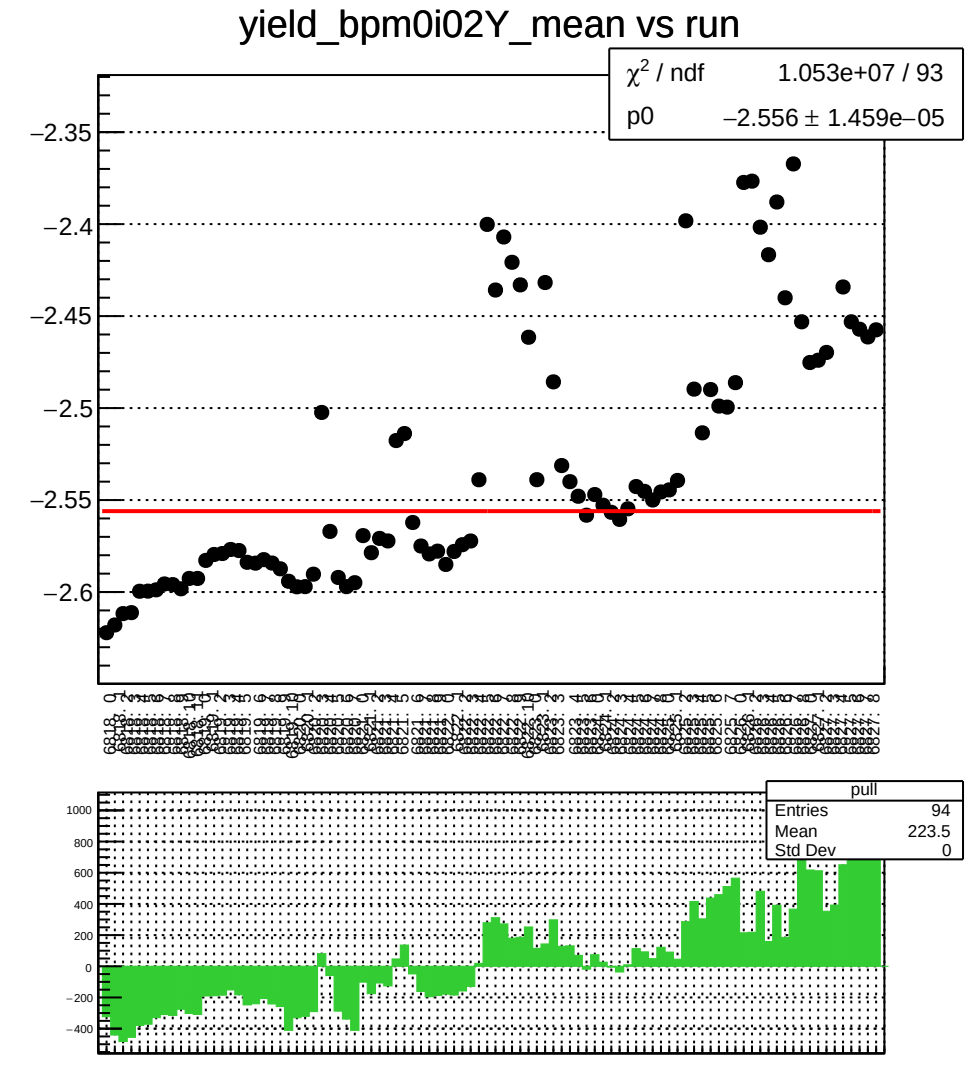

yield_bpm16Y_mean vs run
χ² / ndf 3.282e+04 / 93
p0 –0.284 ± 4.99e–06
–0.28
–0.282
–0.284
–0.286
–0.288
pull
Entries 94
Mean 82.74
Std Dev 0
40
20
0
–20
–40

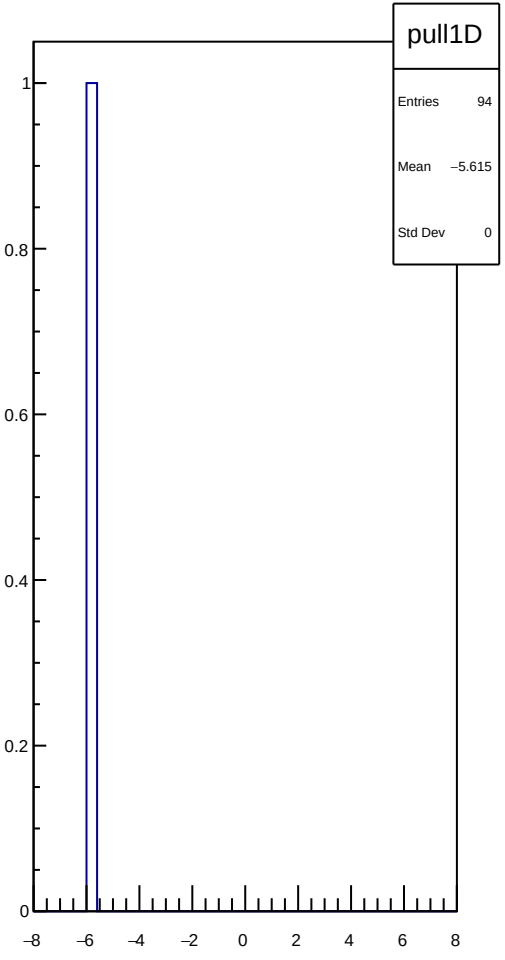

pull1D
Entries 94
Mean 1.568
Std Dev 4.273
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

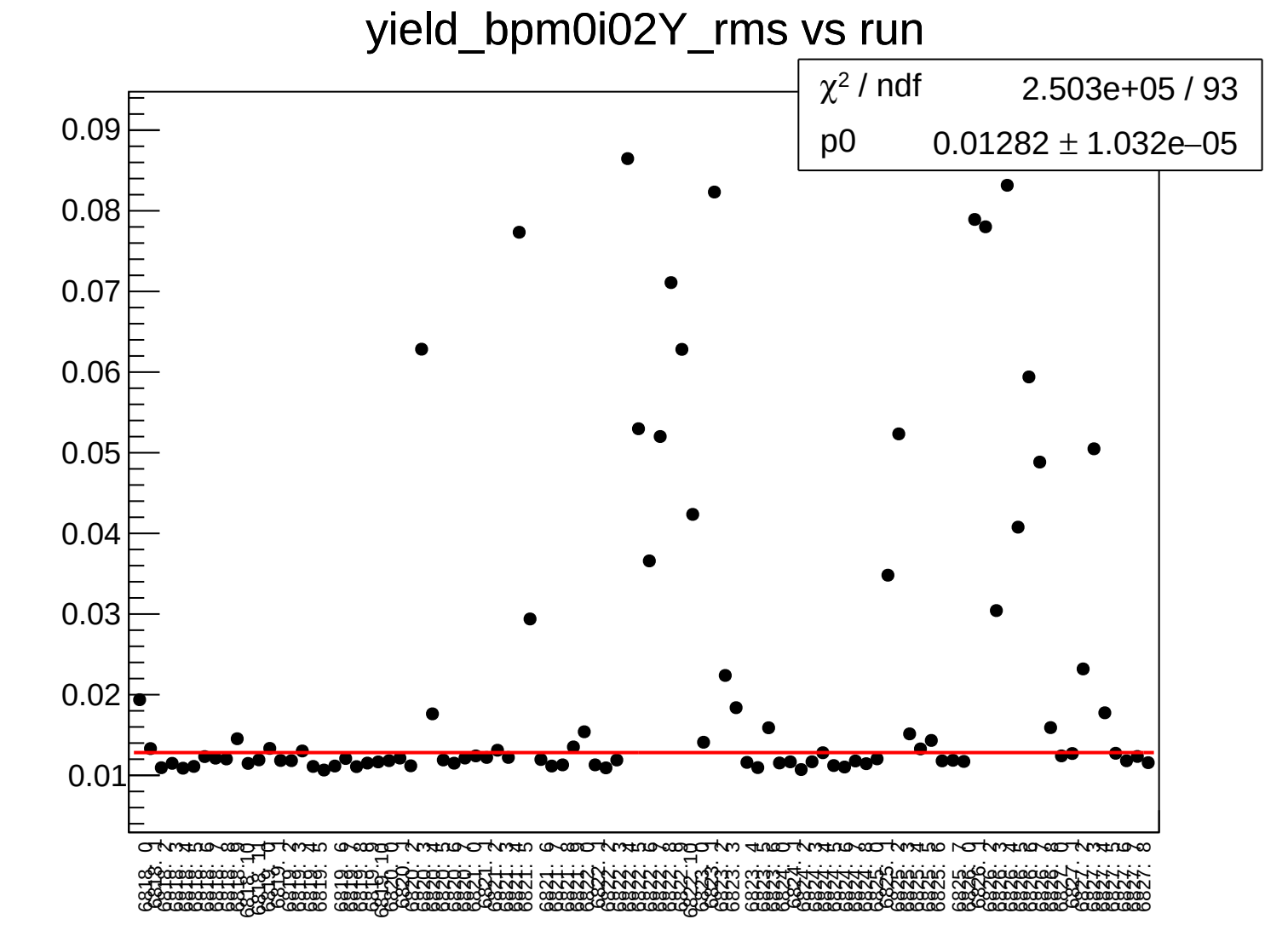

yield_bpm16Y_rms vs run
χ² / ndf 5.743e+04 / 93
p0 0.004651 ± 3.529e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

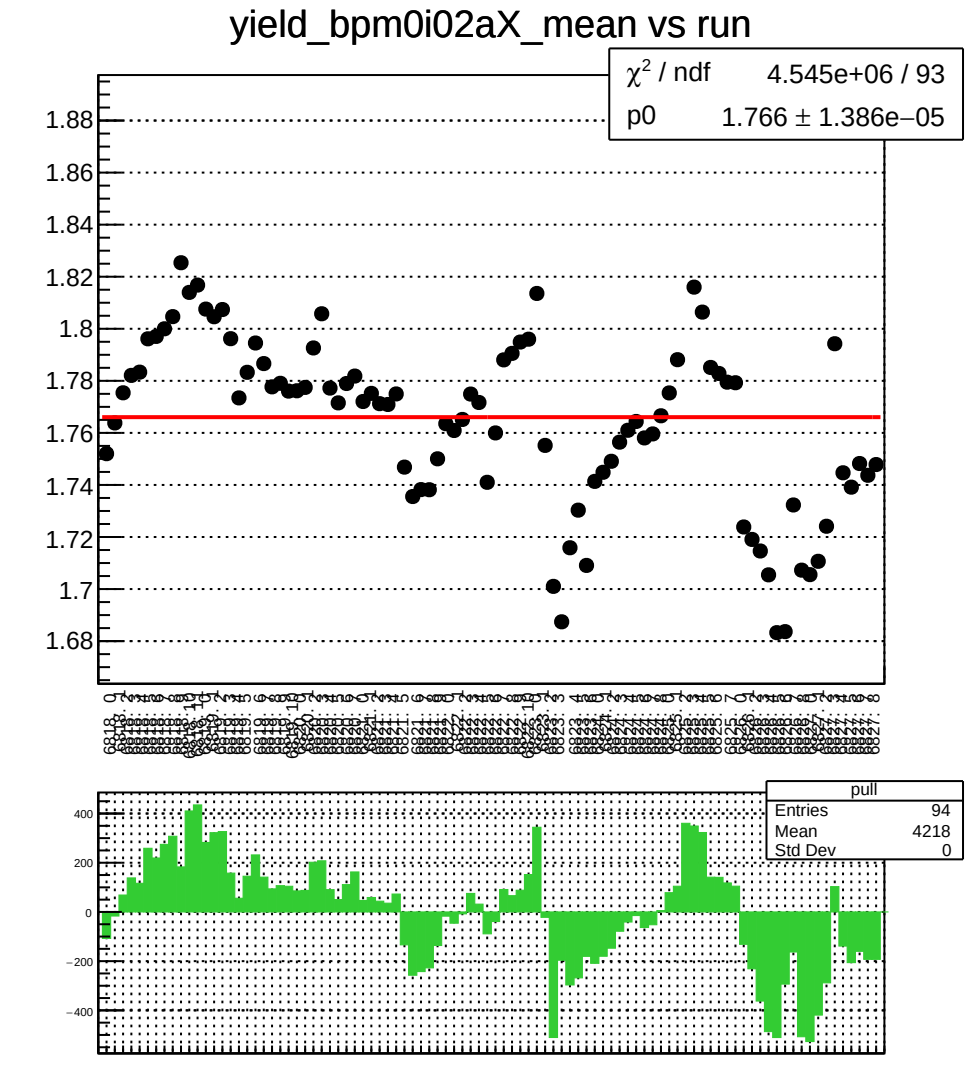

yield_bpm0i02X_mean vs run
χ² / ndf 8.924e+06 / 93
p0 −0.02819 ± 7.013e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean 524.3
Std Dev 0
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

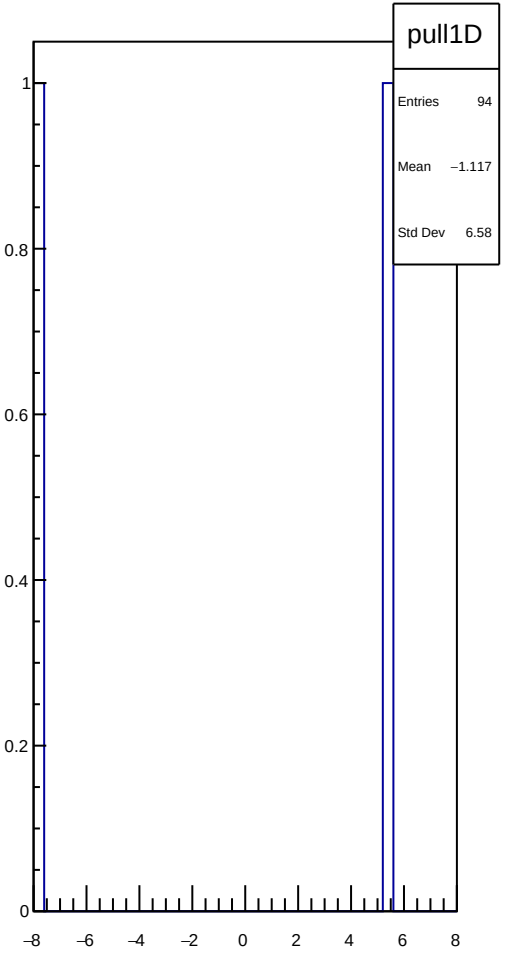

yield_bpm0i02X_rms vs run
χ^2 / ndf 2.082e+05 / 93
p0 0.006247 ± 4.959e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

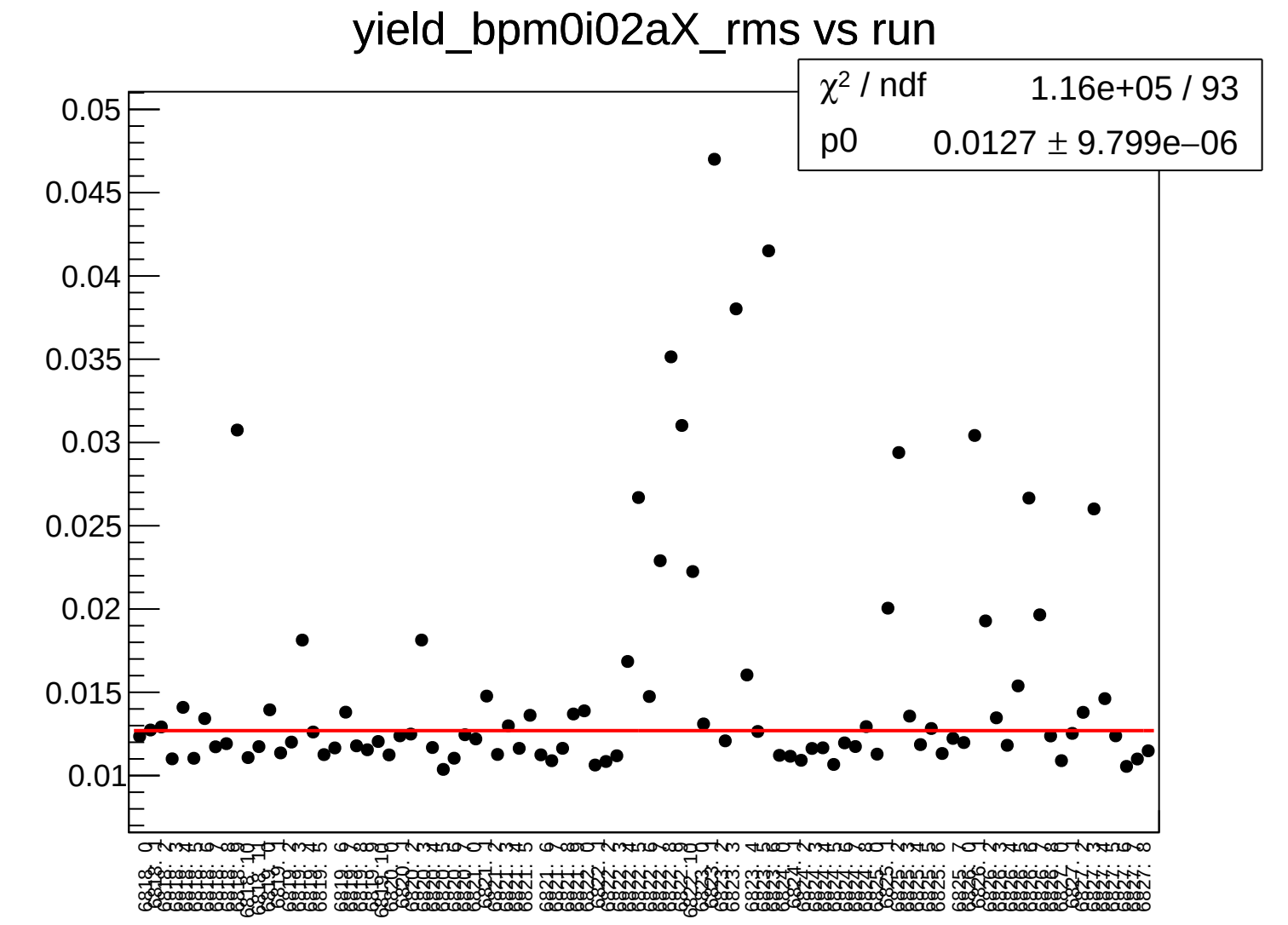

yield_bpm0i02Y_mean vs run
χ² / ndf 1.053e+07 / 93
p0 −2.556 ± 1.459e−05
−2.35
−2.4
−2.45
−2.5
−2.55
−2.6
pull
Entries 94
Mean 223.5
Std Dev 0
1000
800
600
400
200
0
−200
−400

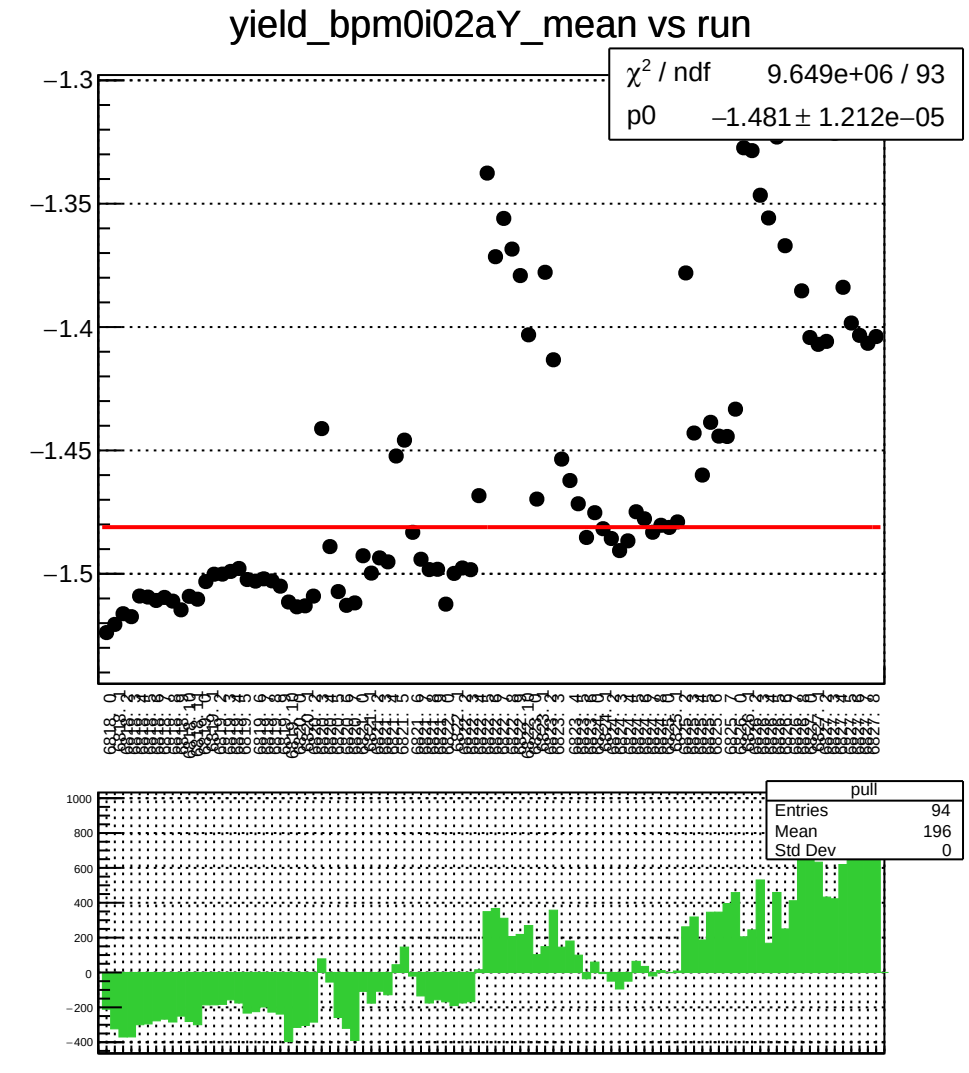

pull1D
Entries 94
Mean −5.615
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

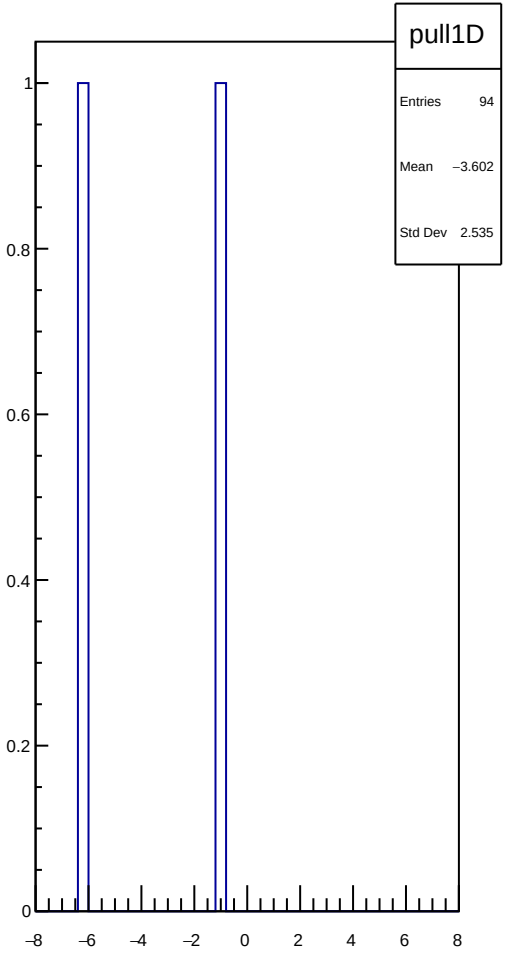

yield_bpm0i02Y_rms vs run
χ² / ndf 2.503e+05 / 93
p0 0.01282 ± 1.032e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

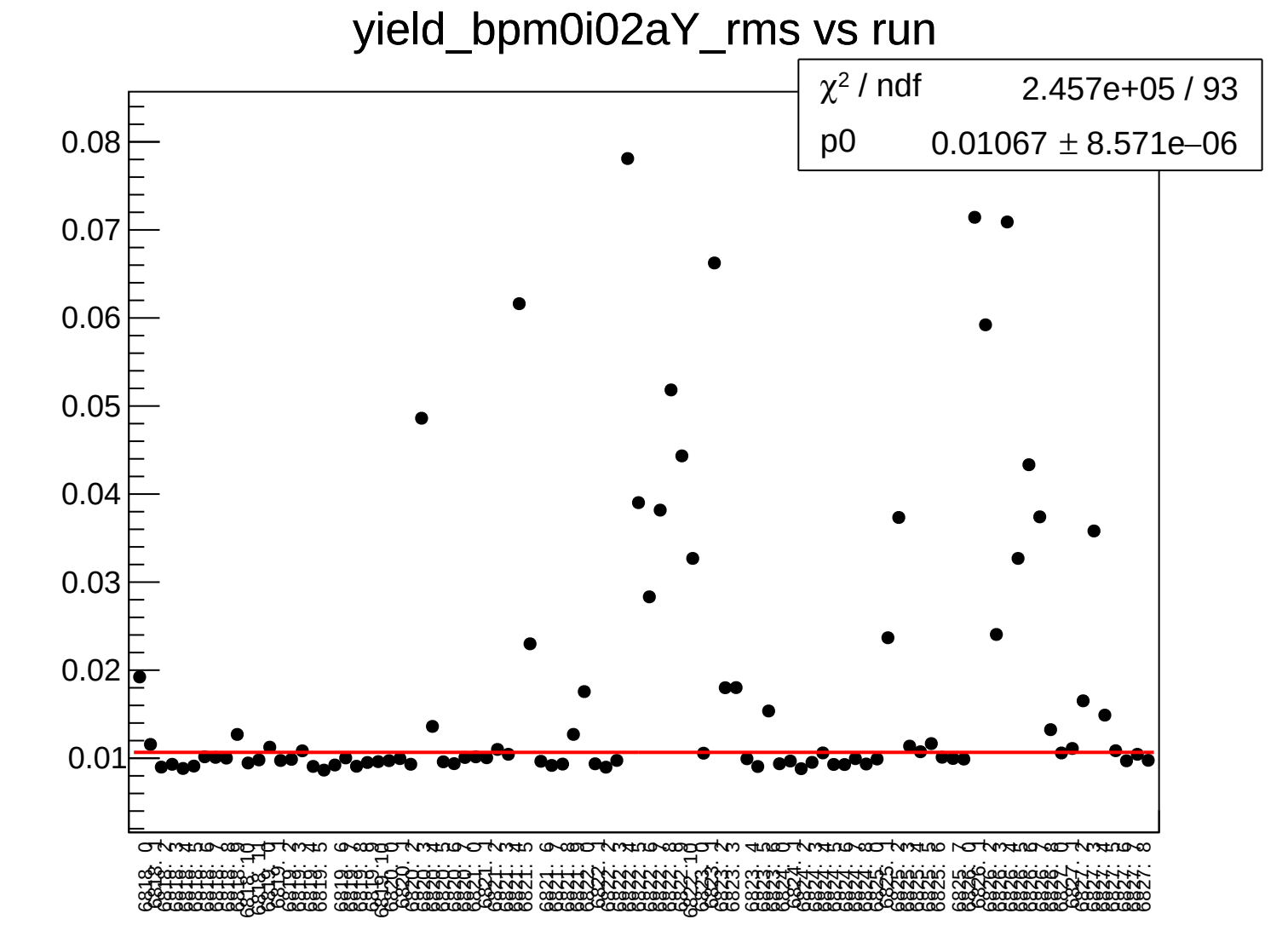

yield_bpm0i02aX_mean vs run
χ² / ndf 4.545e+06 / 93
p0 1.766 ± 1.386e−05
1.88
1.86
1.84
1.82
1.8
1.78
1.76
1.74
1.72
1.7
1.68
pull
Entries 94
Mean 4218
Std Dev 0
400
200
0
−200
−400

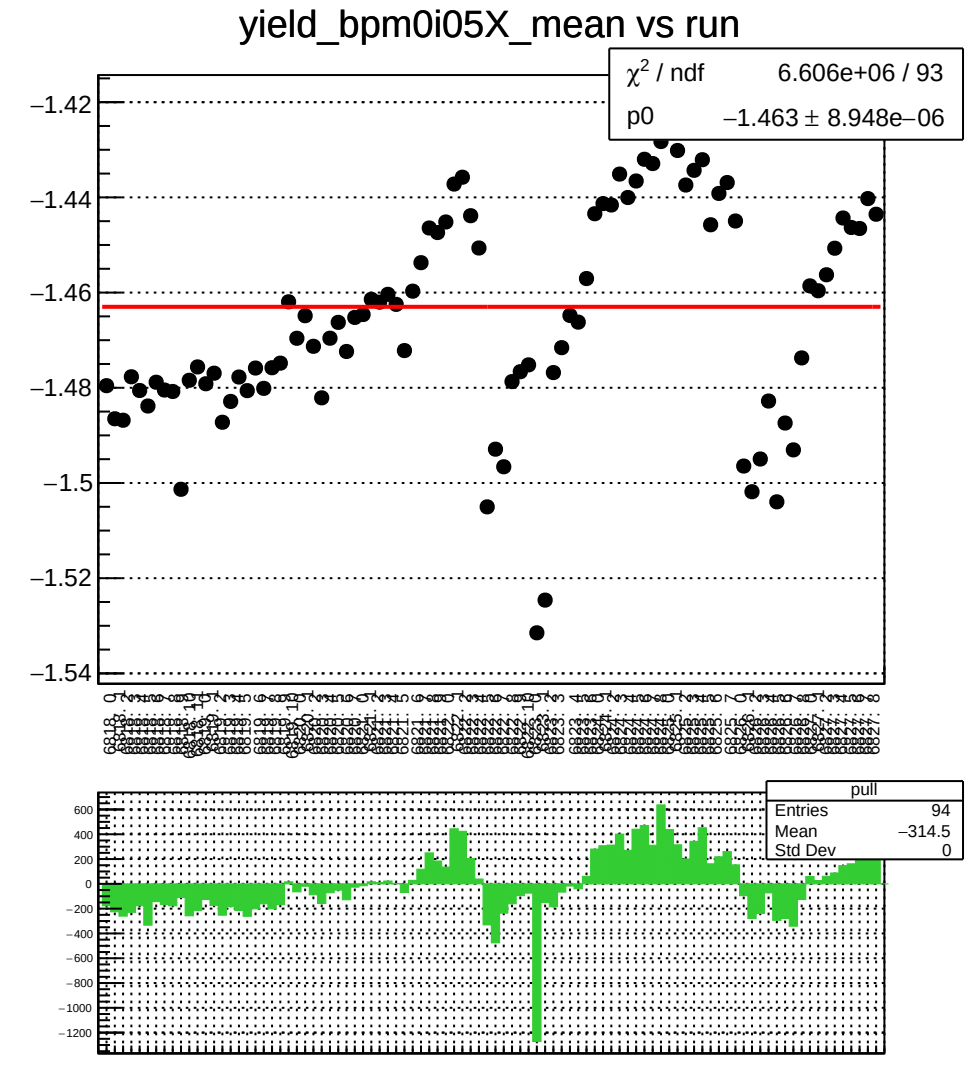

pull1D
Entries 94
Mean −1.117
Std Dev 6.58
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

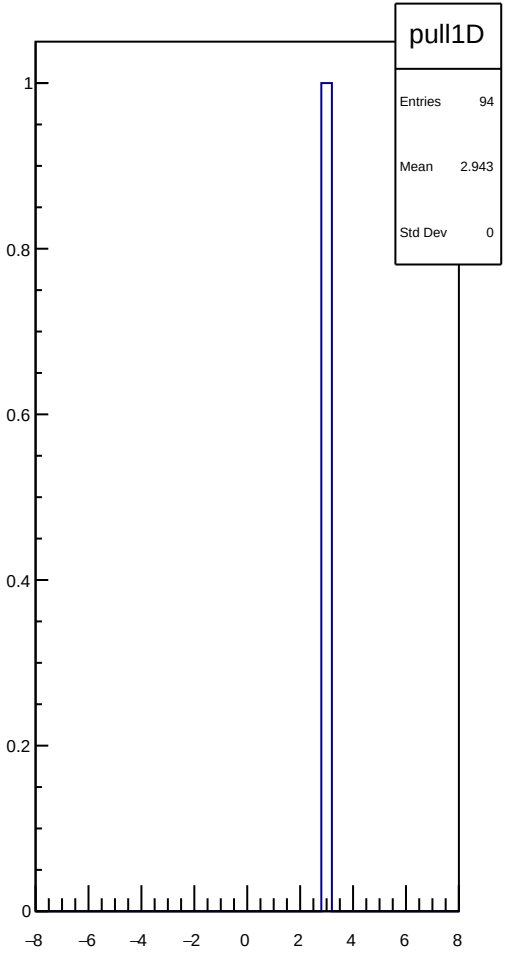

yield_bpm0i02aX_rms vs run
χ² / ndf 1.16e+05 / 93
p0 0.0127 ± 9.799e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

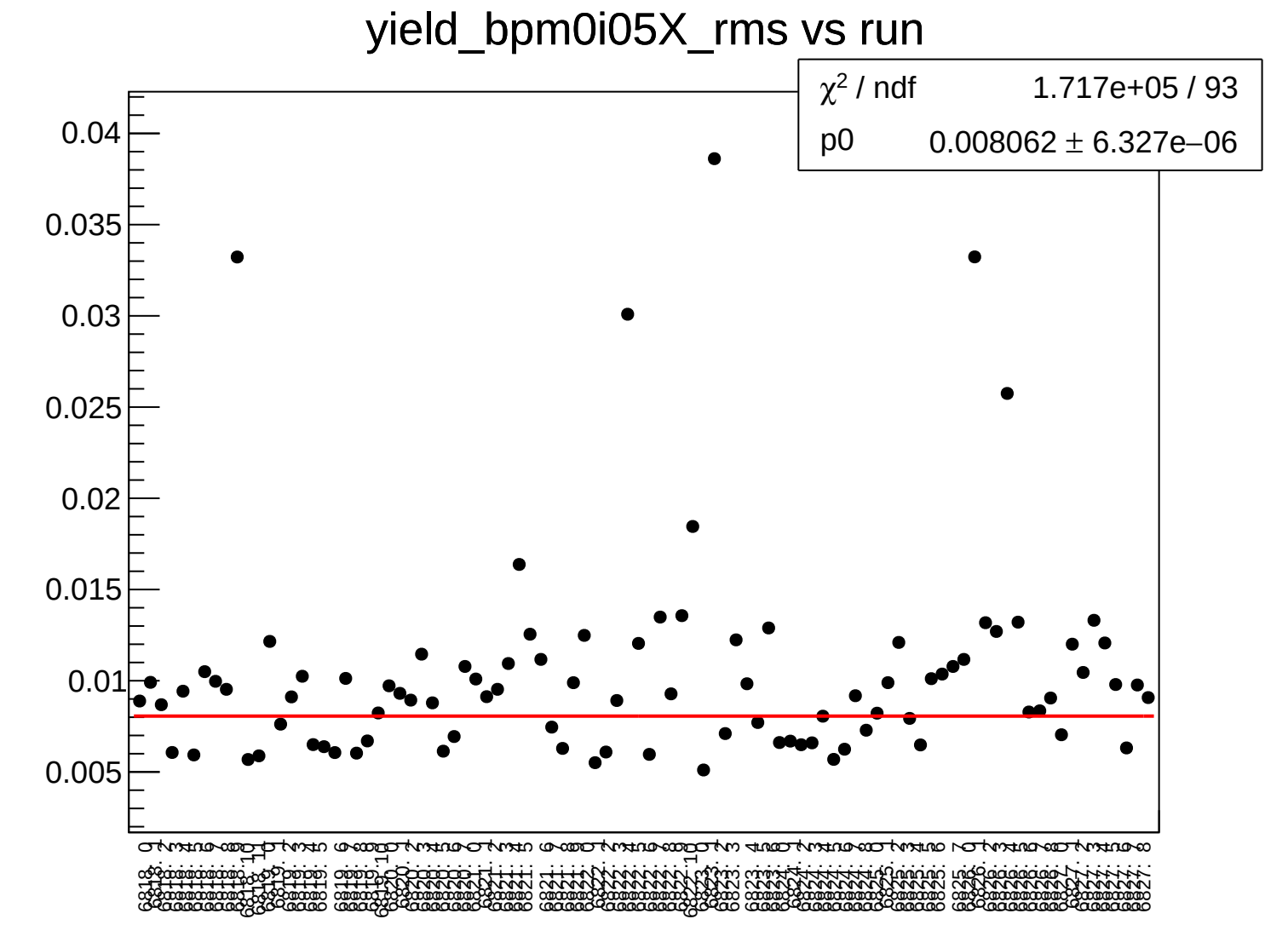

yield_bpm0i02aY_mean vs run
χ² / ndf 9.649e+06 / 93
p0 −1.481 ± 1.212e−05
−1.3
−1.35
−1.4
−1.45
−1.5
pull
Entries 94
Mean 196
Std Dev 0
1000
800
600
400
200
0
−200
−400

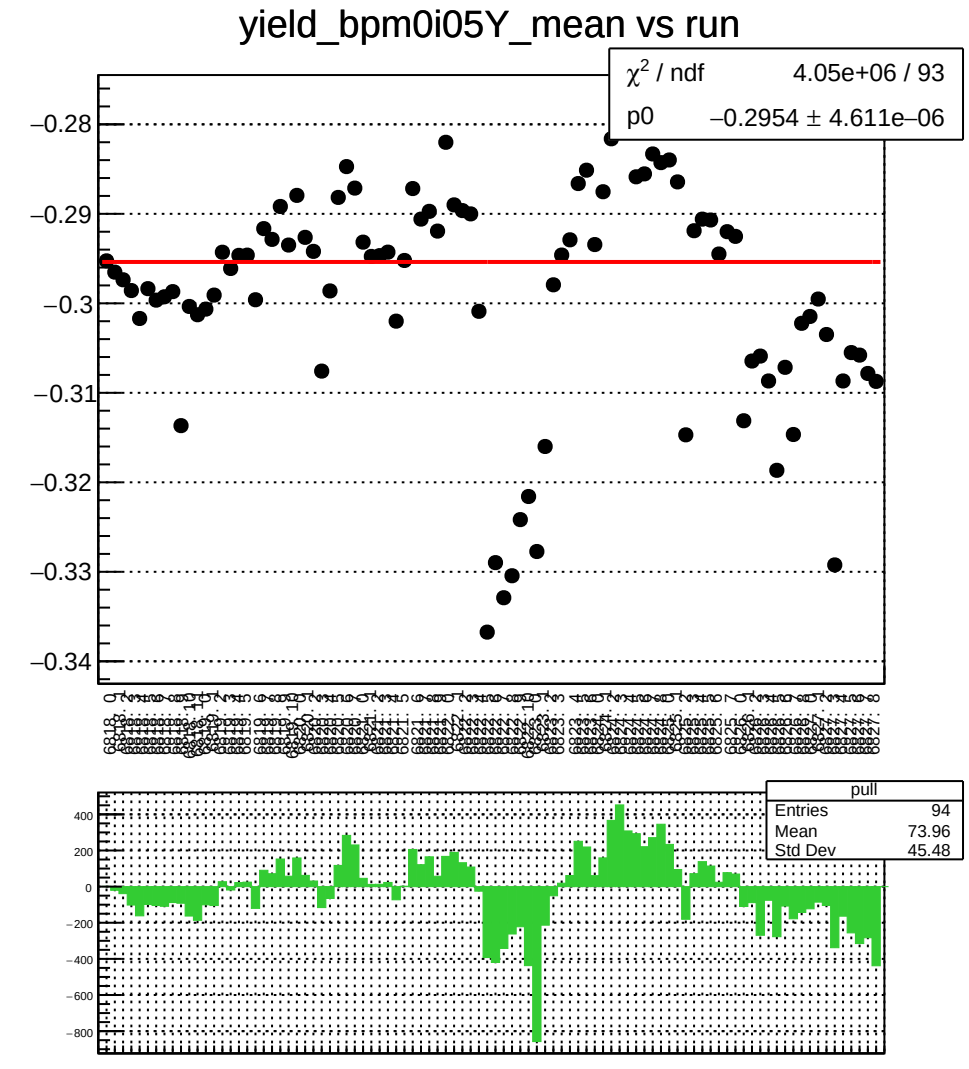

pull1D
Entries 94
Mean −3.602
Std Dev 2.535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

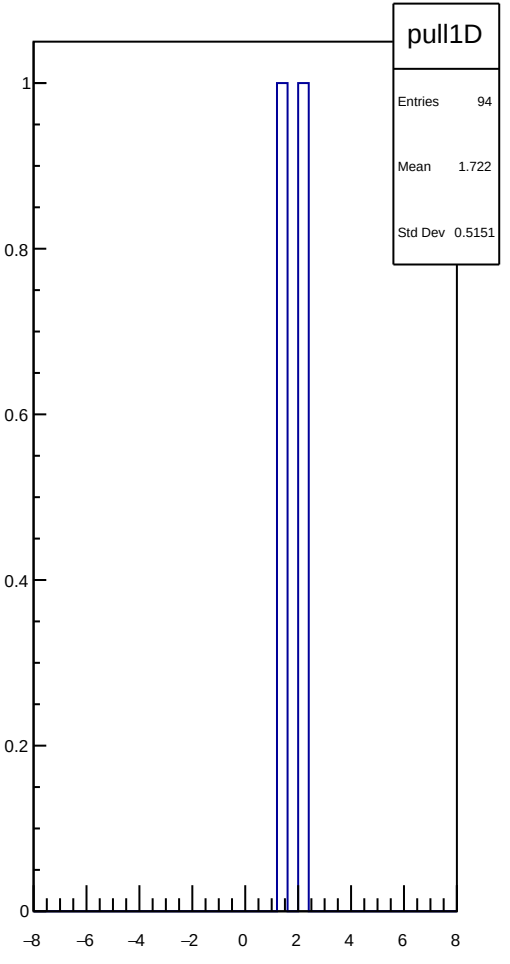

yield_bpm0i02aY_rms vs run
χ² / ndf 2.457e+05 / 93
p0 0.01067 ± 8.571e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

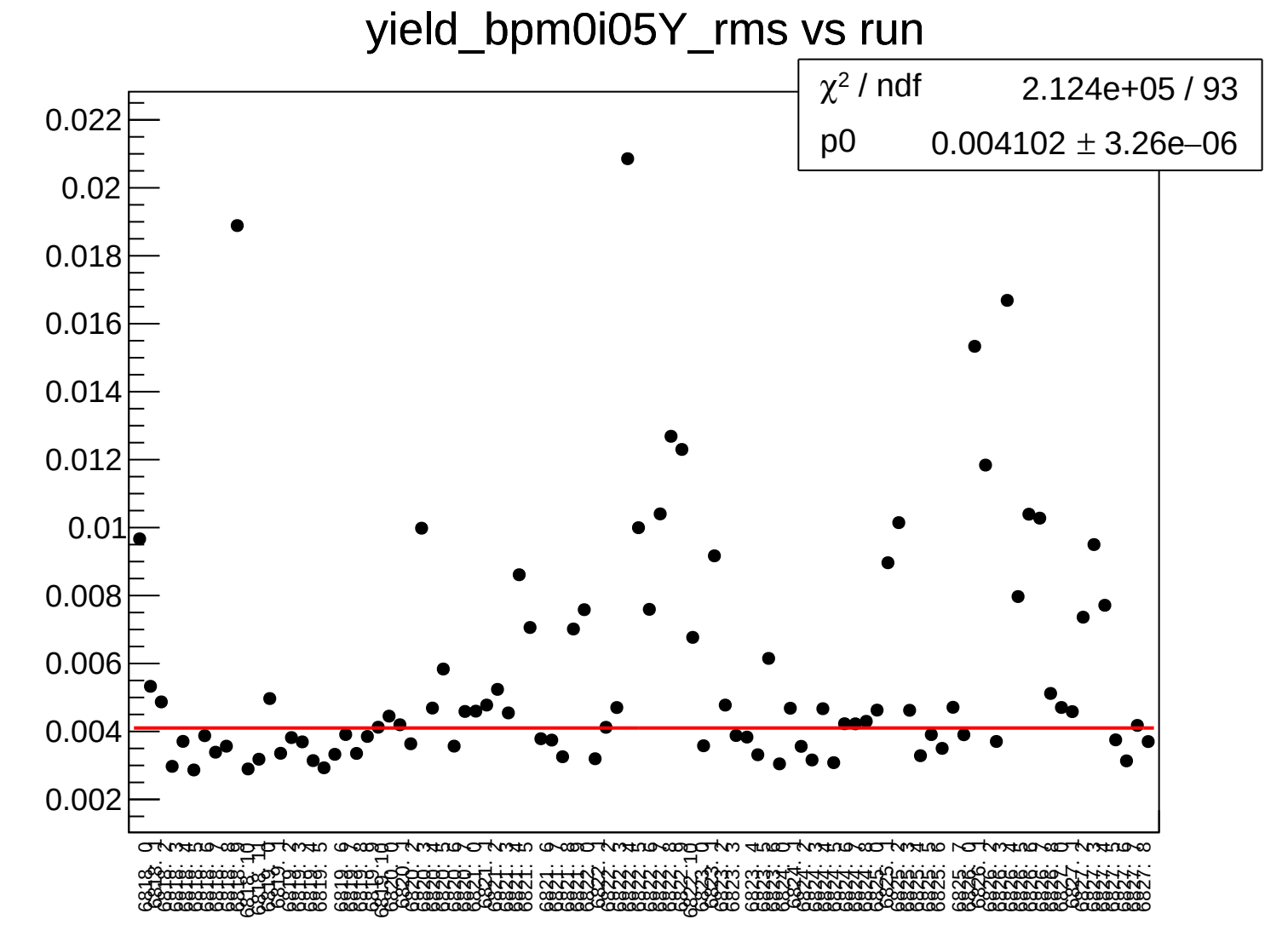

yield_bpm0i05X_mean vs run
χ² / ndf 6.606e+06 / 93
p0 −1.463 ± 8.948e−06
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
pull
Entries 94
Mean −314.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

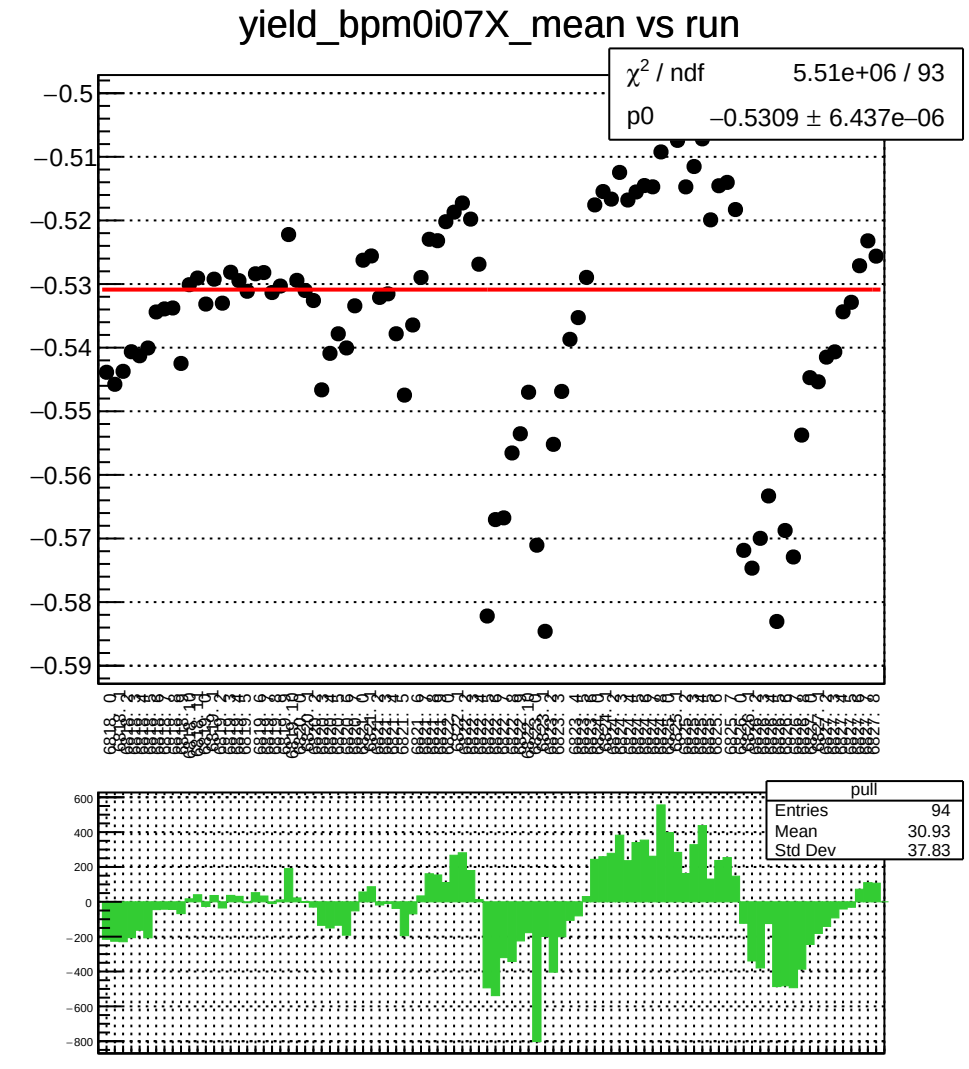

pull1D
Entries 94
Mean 2.943
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

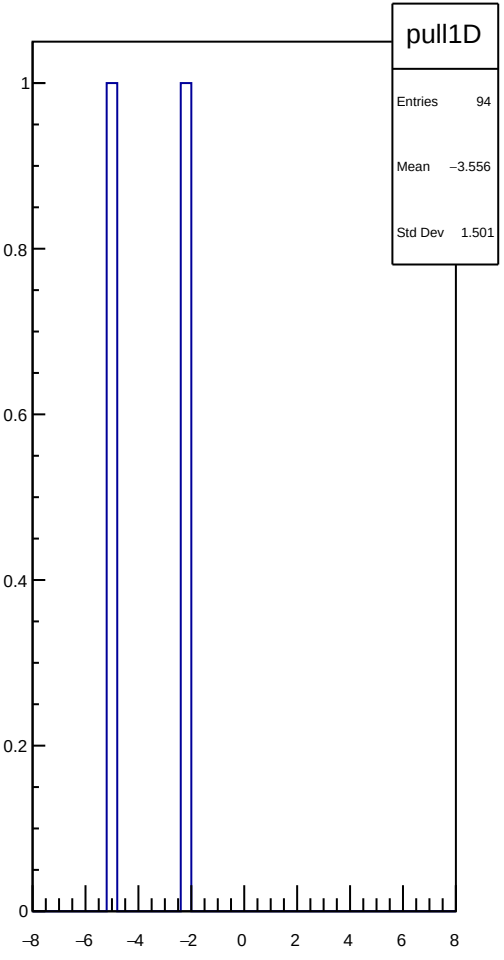

yield_bpm0i05X_rms vs run
χ² / ndf 1.717e+05 / 93
p0 0.008062 ± 6.327e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

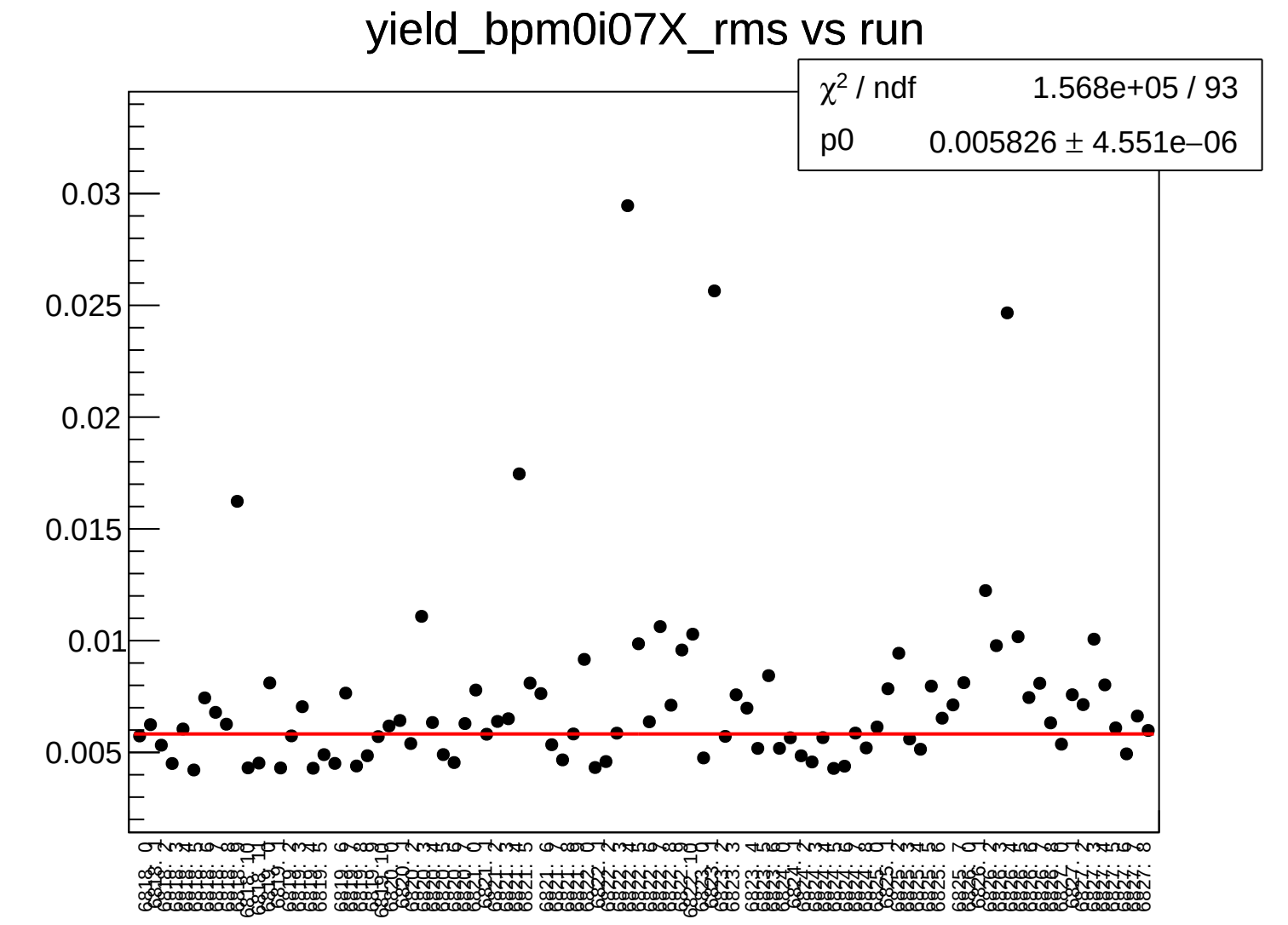

yield_bpm0i05Y_mean vs run
χ² / ndf 4.05e+06 / 93
p0 −0.2954 ± 4.611e−06
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
−0.34
pull
Entries 94
Mean 73.96
Std Dev 45.48
400
200
0
−200
−400
−600
−800

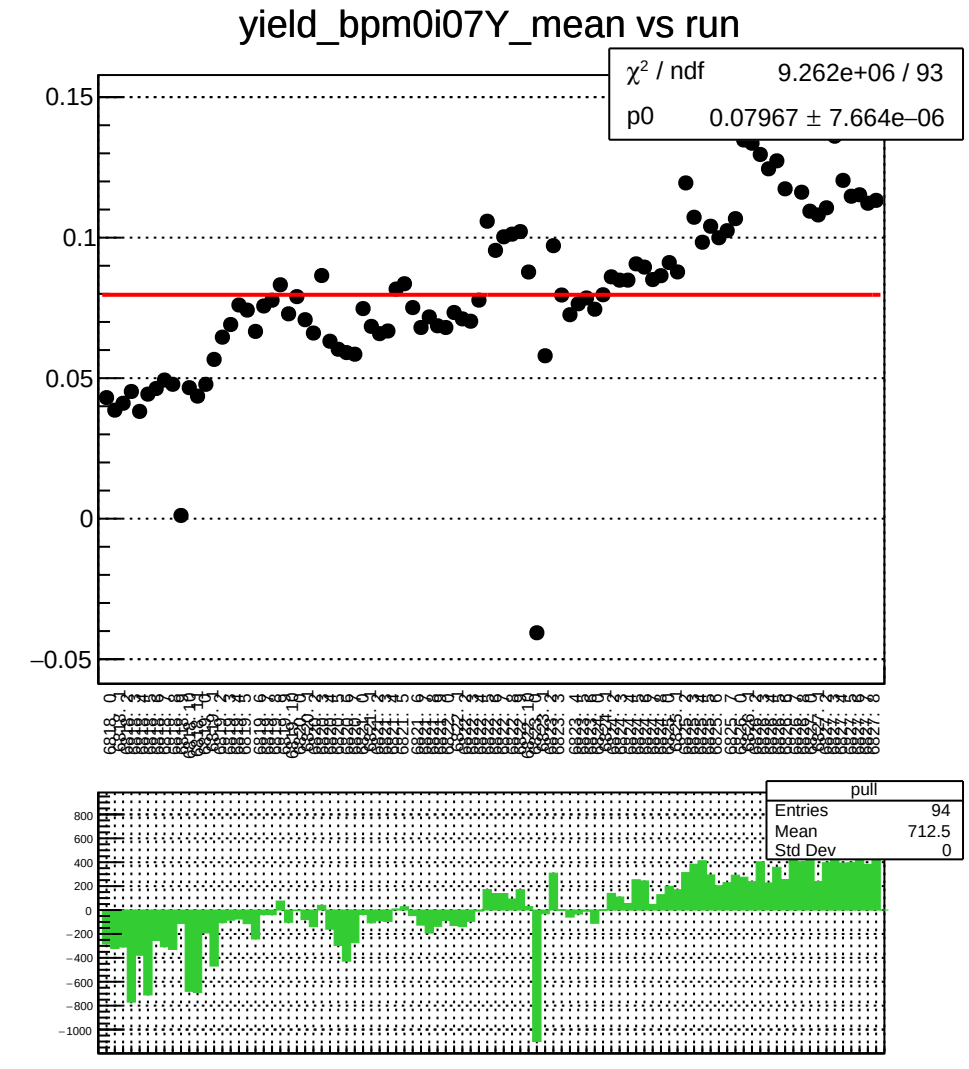

pull1D
Entries 94
Mean 1.722
Std Dev 0.5151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

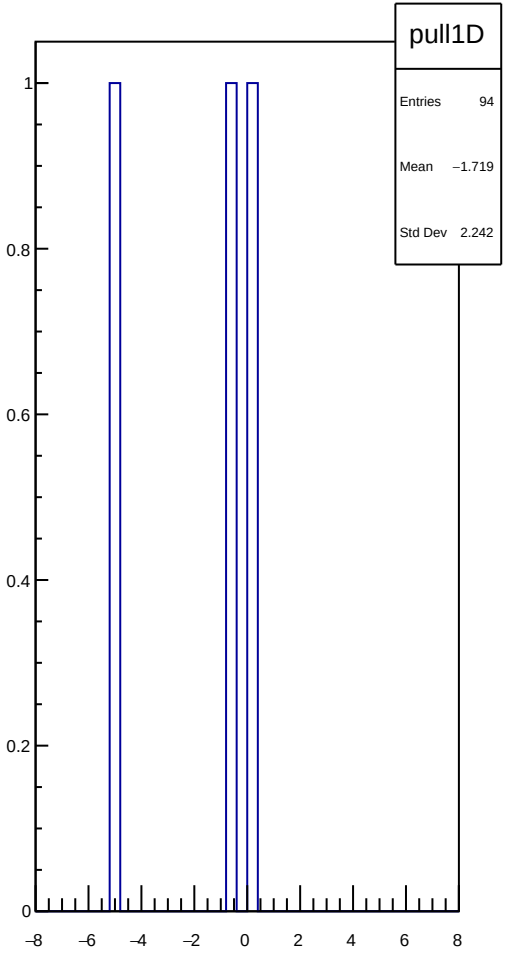

yield_bpm0i05Y_rms vs run
χ² / ndf 2.124e+05 / 93
p0 0.004102 ± 3.26e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

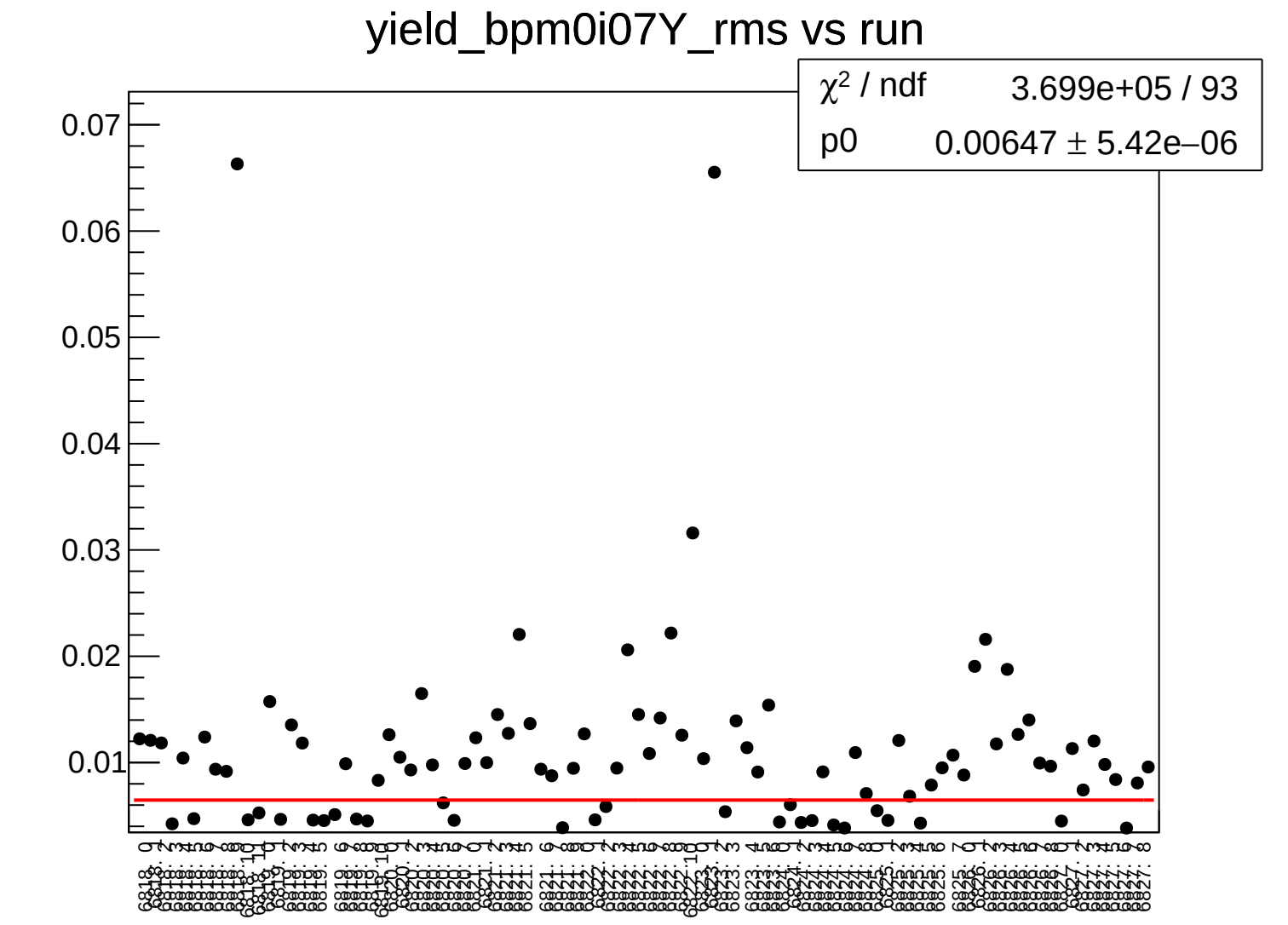

yield_bpm0i07X_mean vs run
χ² / ndf 5.51e+06 / 93
p0 −0.5309 ± 6.437e−06
pull
Entries 94
Mean 30.93
Std Dev 37.83

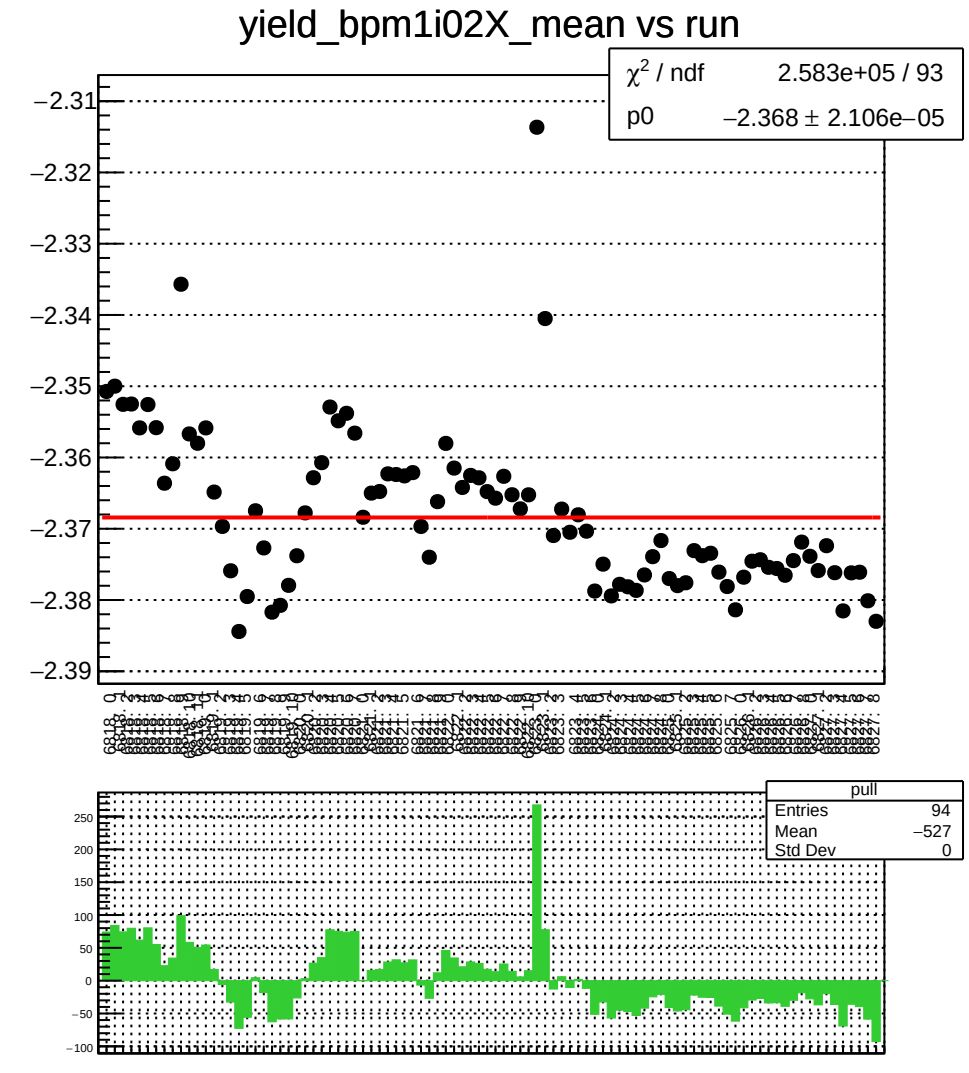

pull1D
Entries 94
Mean −3.556
Std Dev 1.501

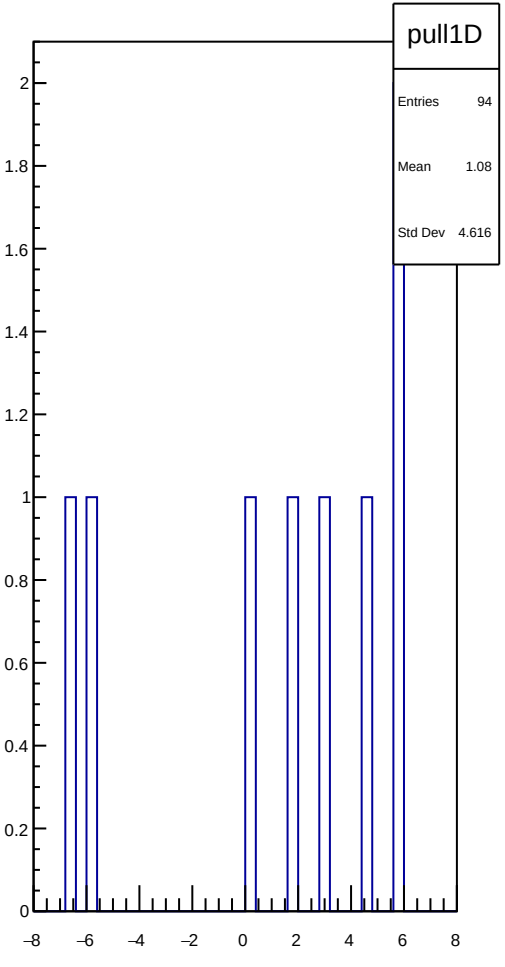

yield_bpm0i07X_rms vs run
χ^2 / ndf 1.568e+05 / 93
p0 0.005826 ± 4.551e−06
0.03
0.025
0.02
0.015
0.01
0.005

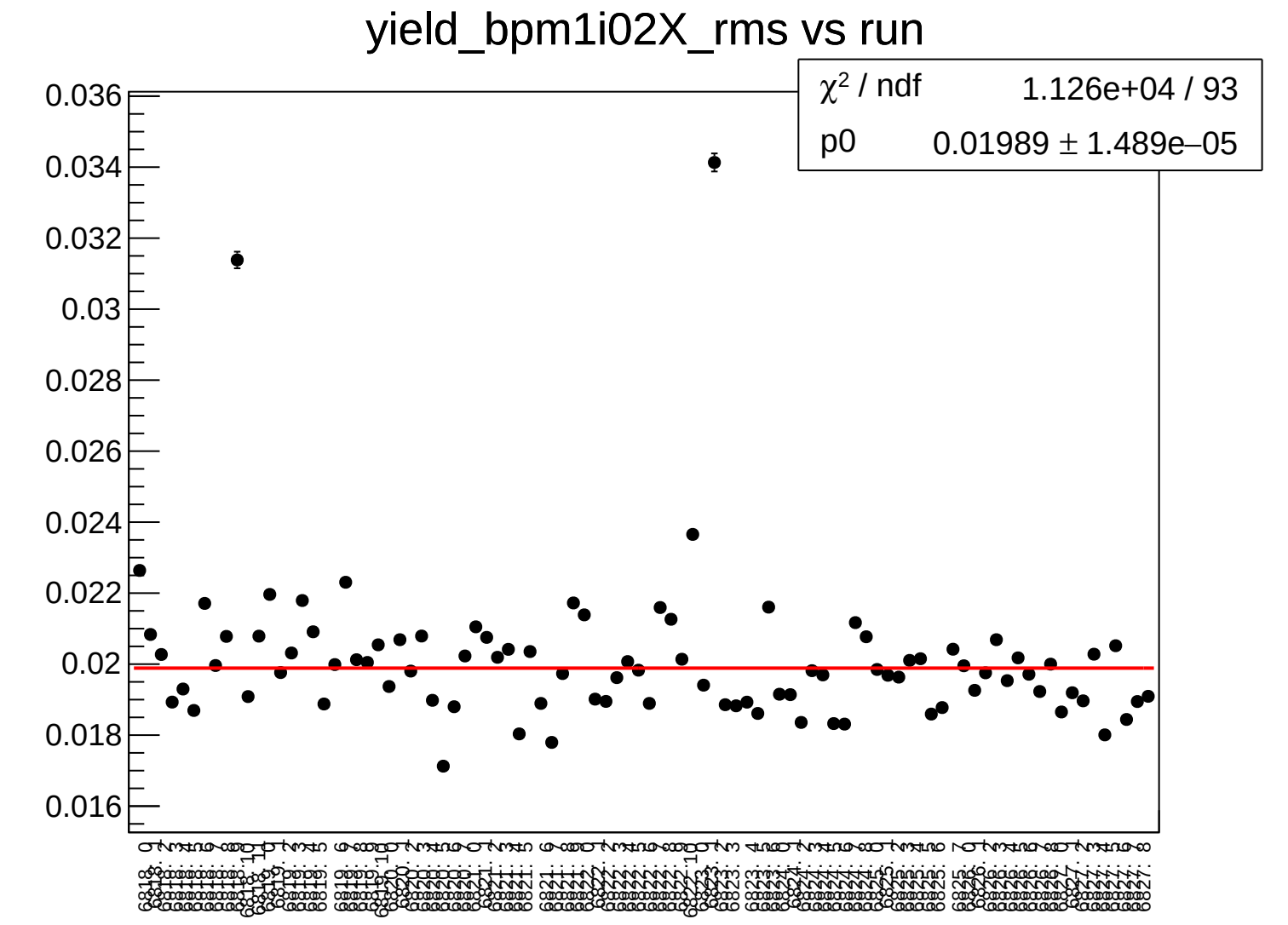

yield_bpm0i07Y_mean vs run
χ² / ndf 9.262e+06 / 93
p0 0.07967 ± 7.664e−06
0.15
0.1
0.05
0
−0.05
pull
Entries 94
Mean 712.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

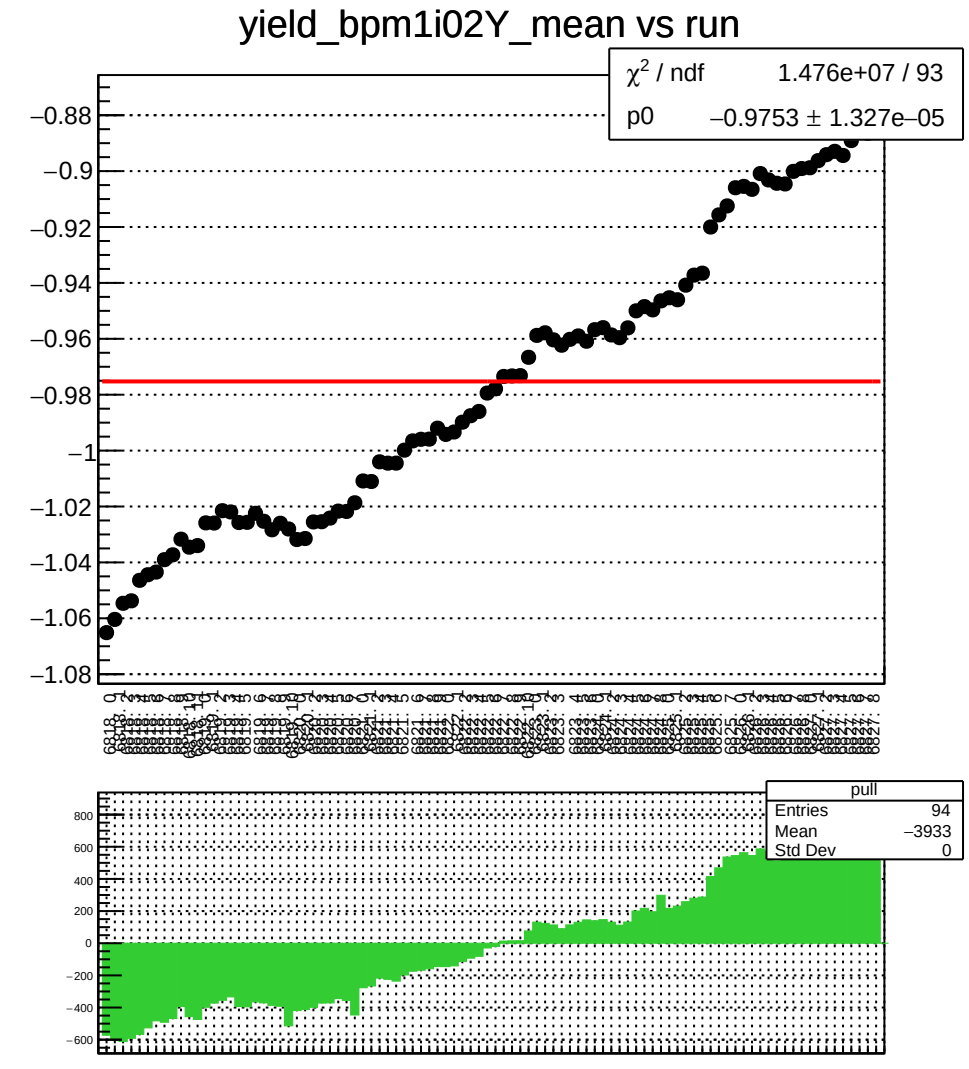

pull1D
Entries 94
Mean −1.719
Std Dev 2.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

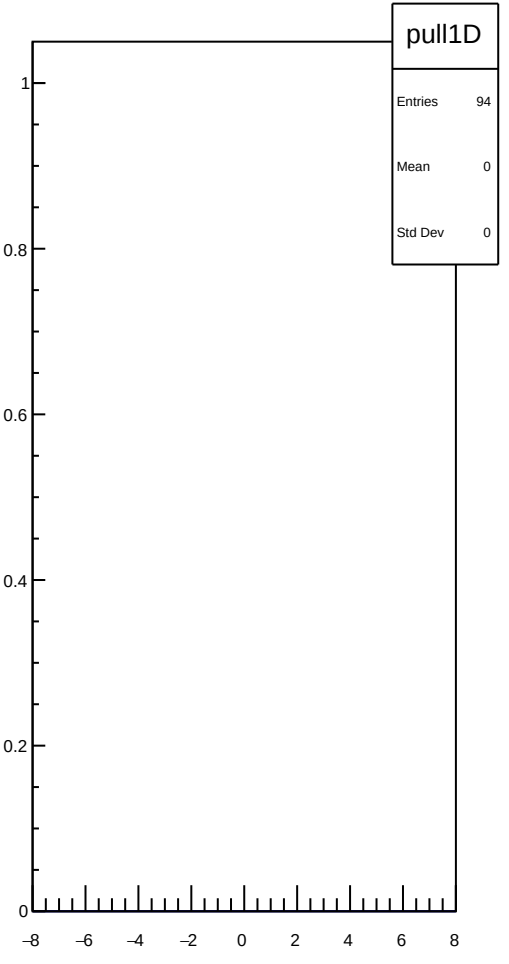

yield_bpm0i07Y_rms vs run
χ² / ndf 3.699e+05 / 93
p0 0.00647 ± 5.42e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

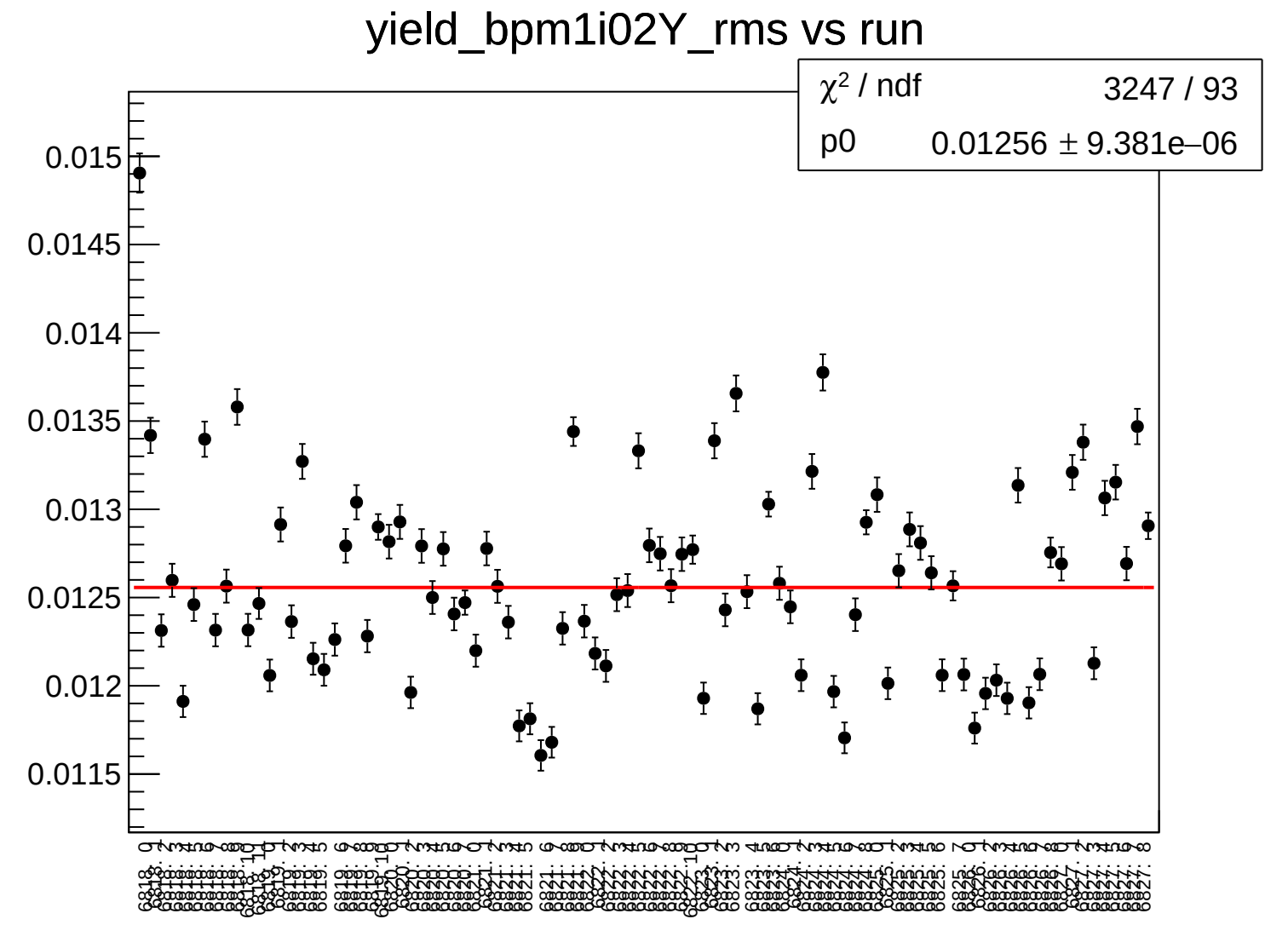

yield_bpm1i02X_mean vs run
χ² / ndf 2.583e+05 / 93
p0 −2.368 ± 2.106e−05
−2.31
−2.32
−2.33
−2.34
−2.35
−2.36
−2.37
−2.38
−2.39
pull
Entries 94
Mean −527
Std Dev 0
250
200
150
100
50
0
−50
−100

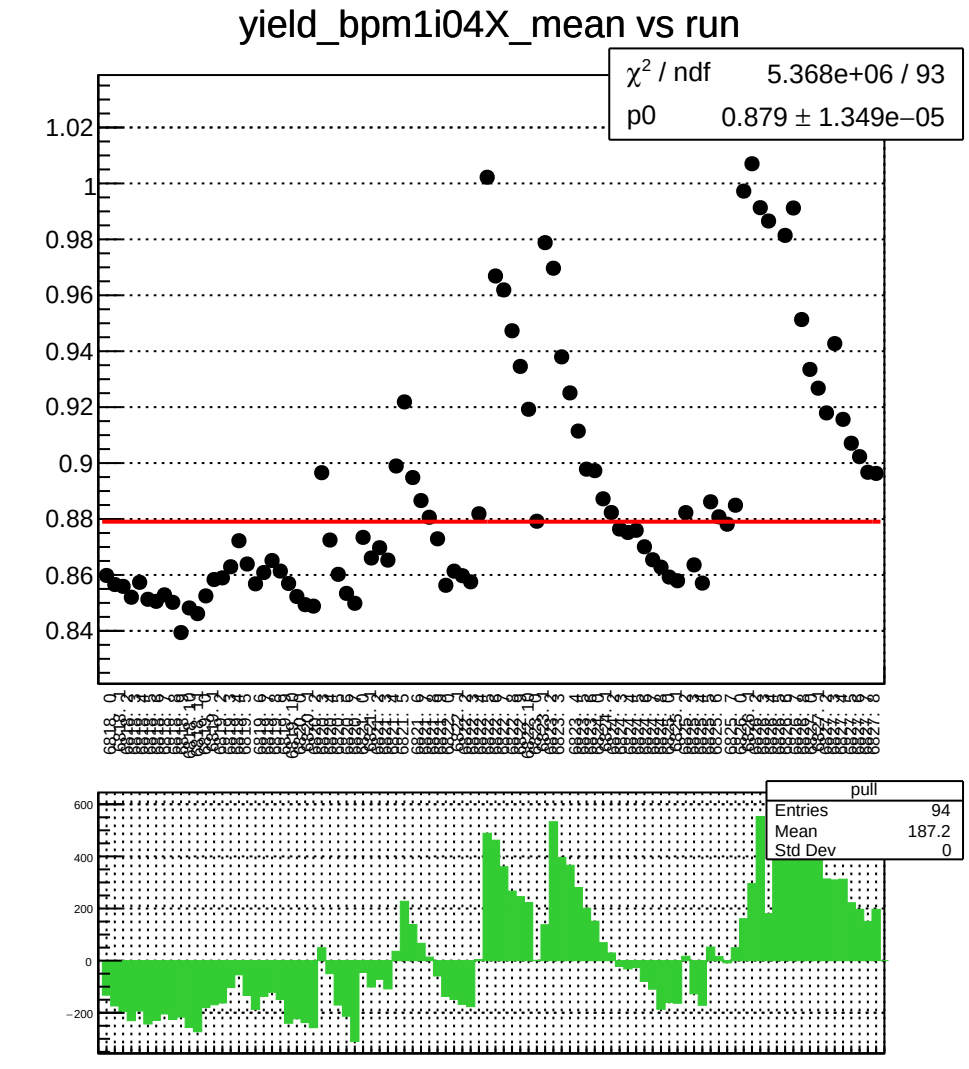

pull1D
Entries 94
Mean 1.08
Std Dev 4.616
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

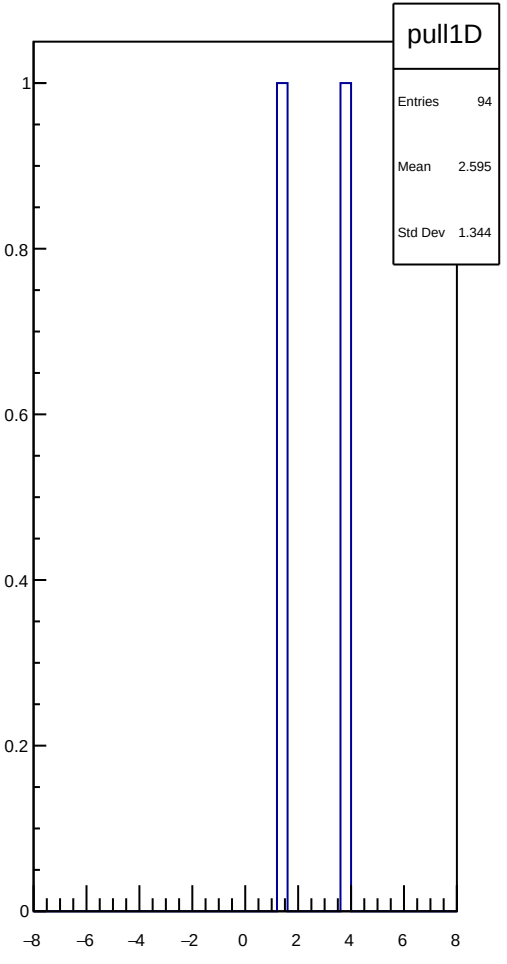

yield_bpm1i02X_rms vs run
χ² / ndf 1.126e+04 / 93
p0 0.01989 ± 1.489e–05
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

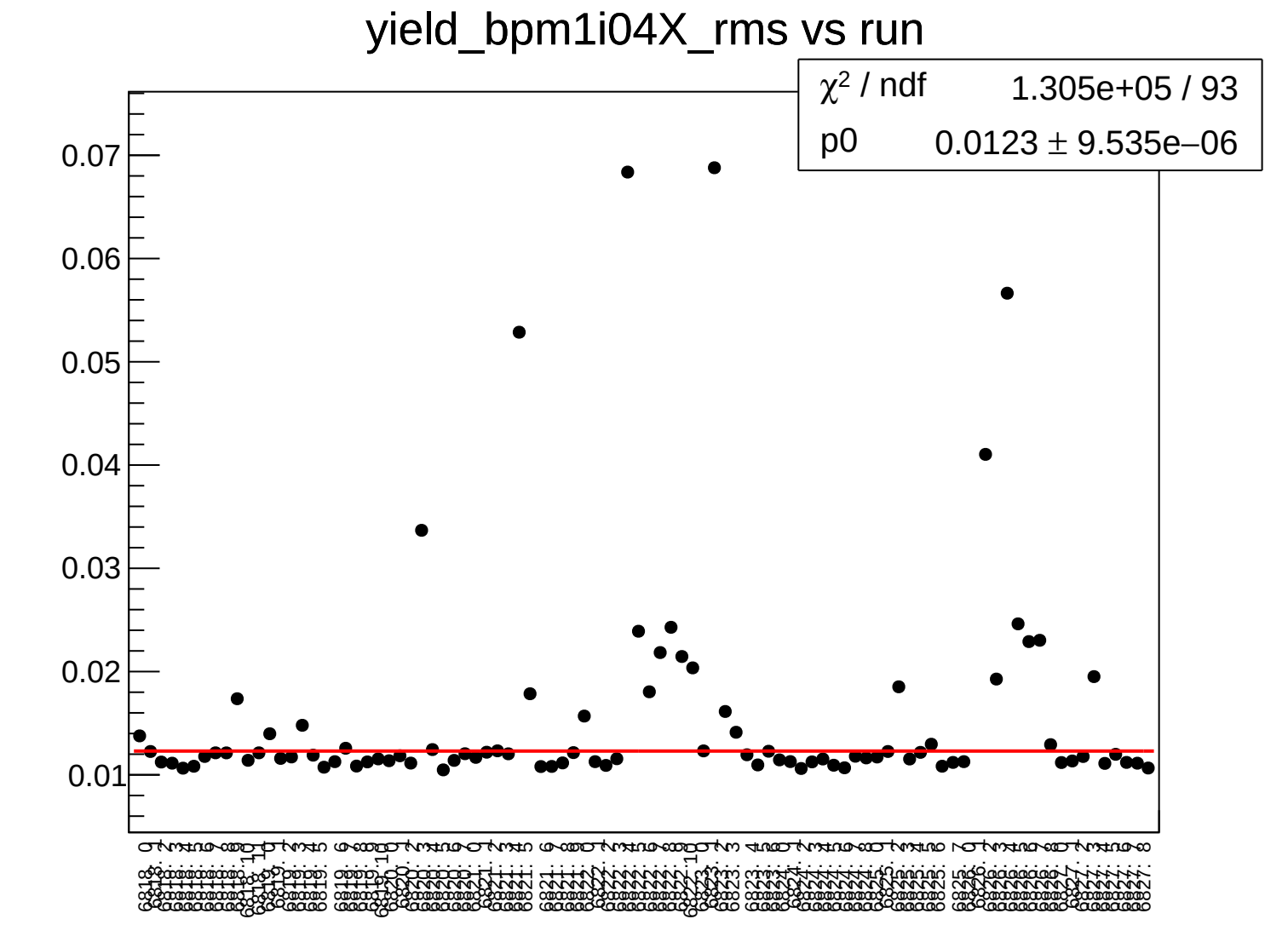

yield_bpm1i02Y_mean vs run
χ² / ndf 1.476e+07 / 93
p0 −0.9753 ± 1.327e−05
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 94
Mean −3933
Std Dev 0
800
600
400
200
0
−200
−400
−600

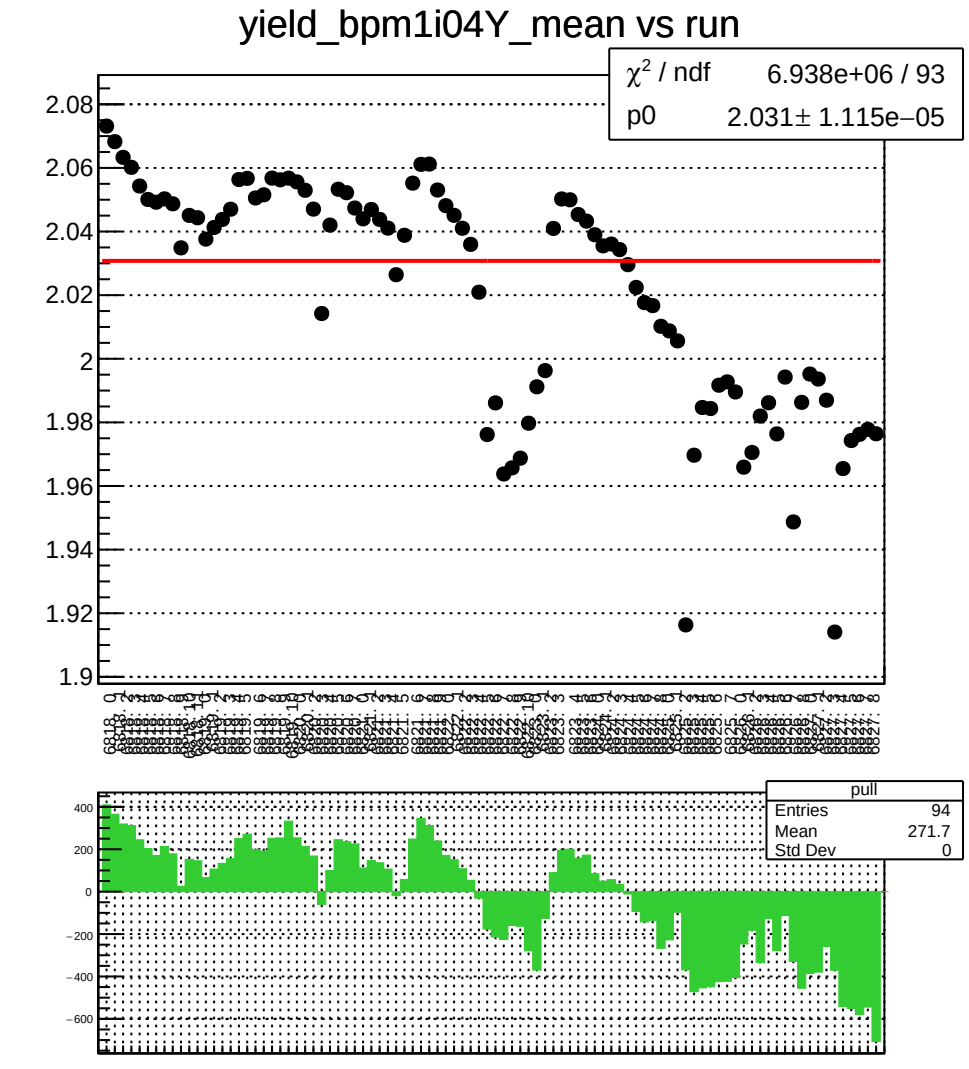

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

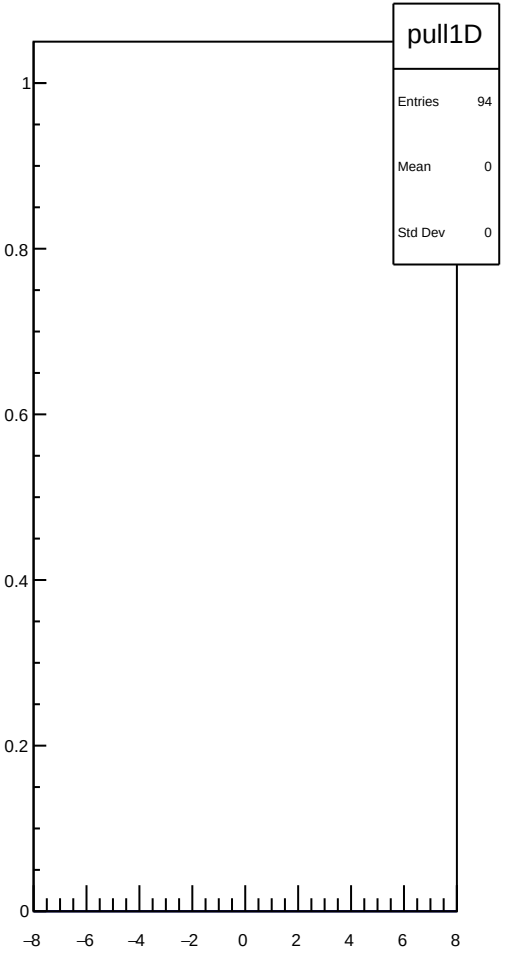

yield_bpm1i02Y_rms vs run
χ² / ndf 3247 / 93
p0 0.01256 ± 9.381e–06
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

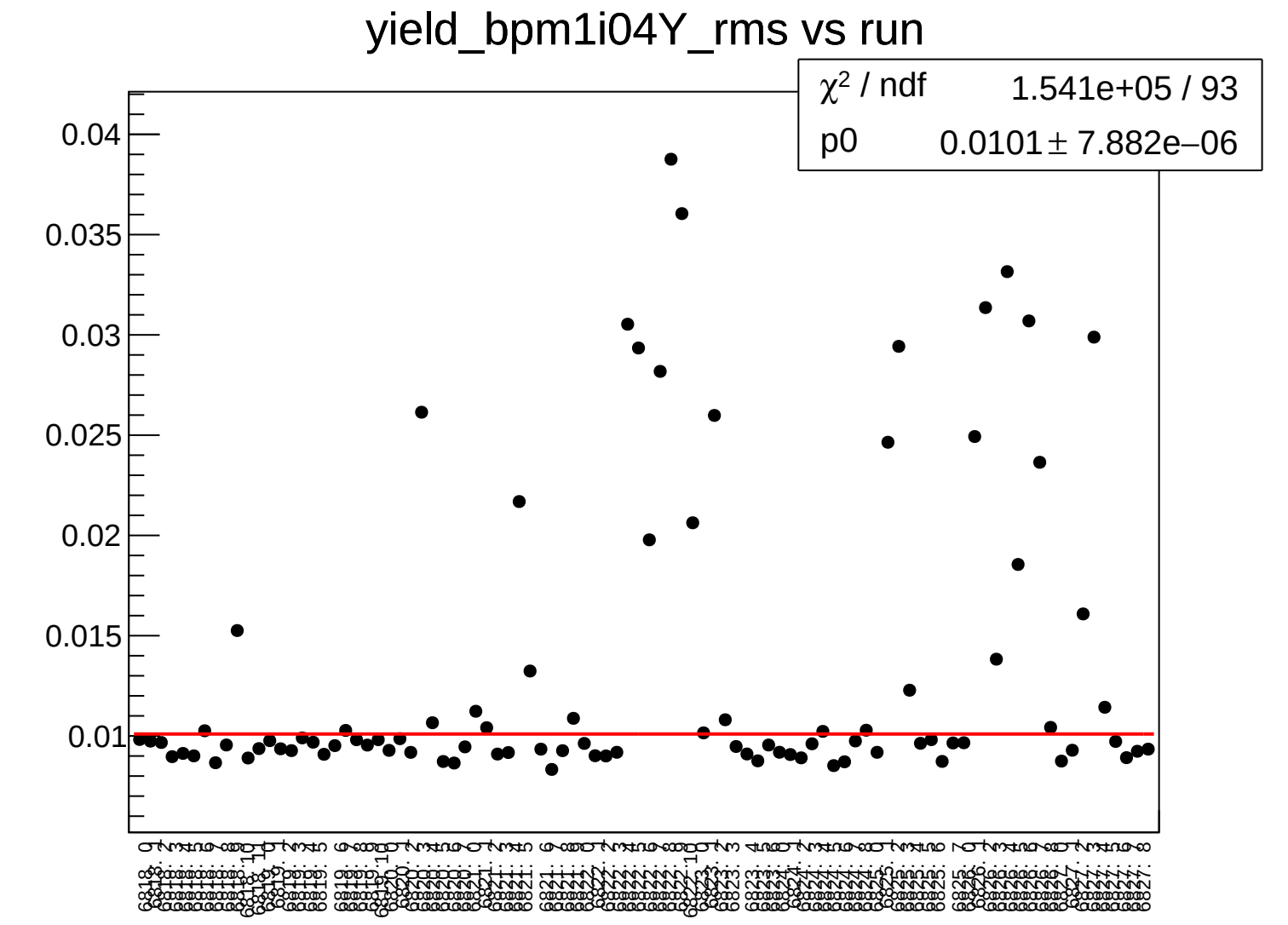

yield_bpm1i04X_mean vs run
χ² / ndf 5.368e+06 / 93
p0 0.879 ± 1.349e−05
1.02
1
0.98
0.96
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 94
Mean 187.2
Std Dev 0
600
400
200
0
−200

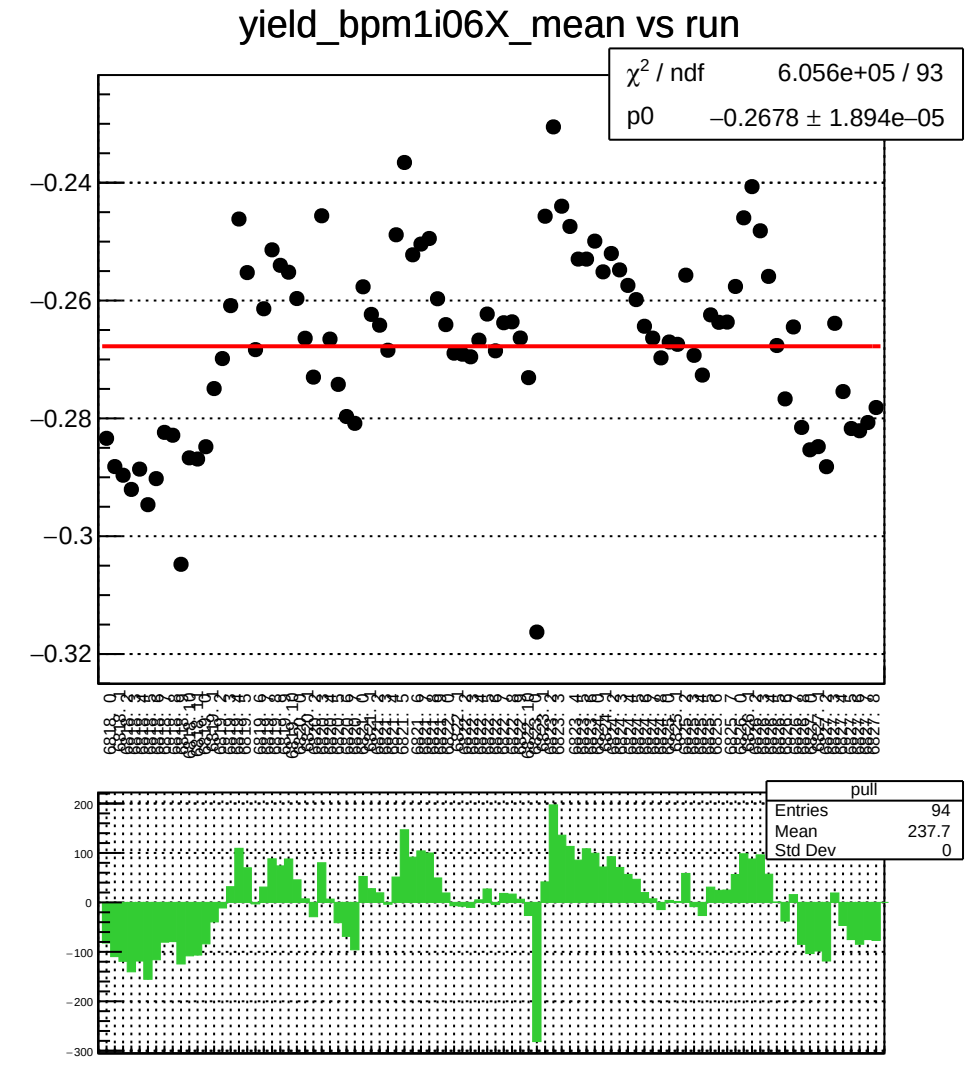

pull1D
Entries 94
Mean 2.595
Std Dev 1.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

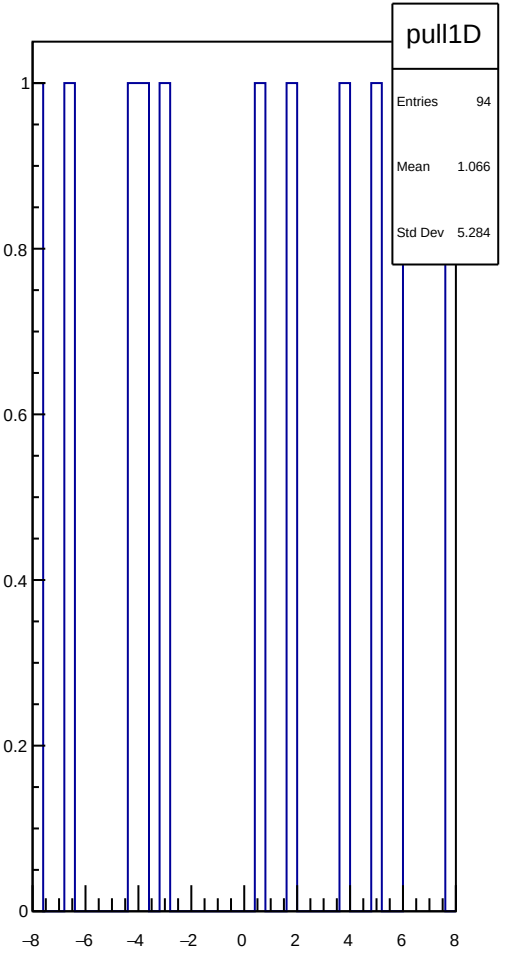

yield_bpm1i04X_rms vs run
χ² / ndf 1.305e+05 / 93
p0 0.0123 ± 9.535e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

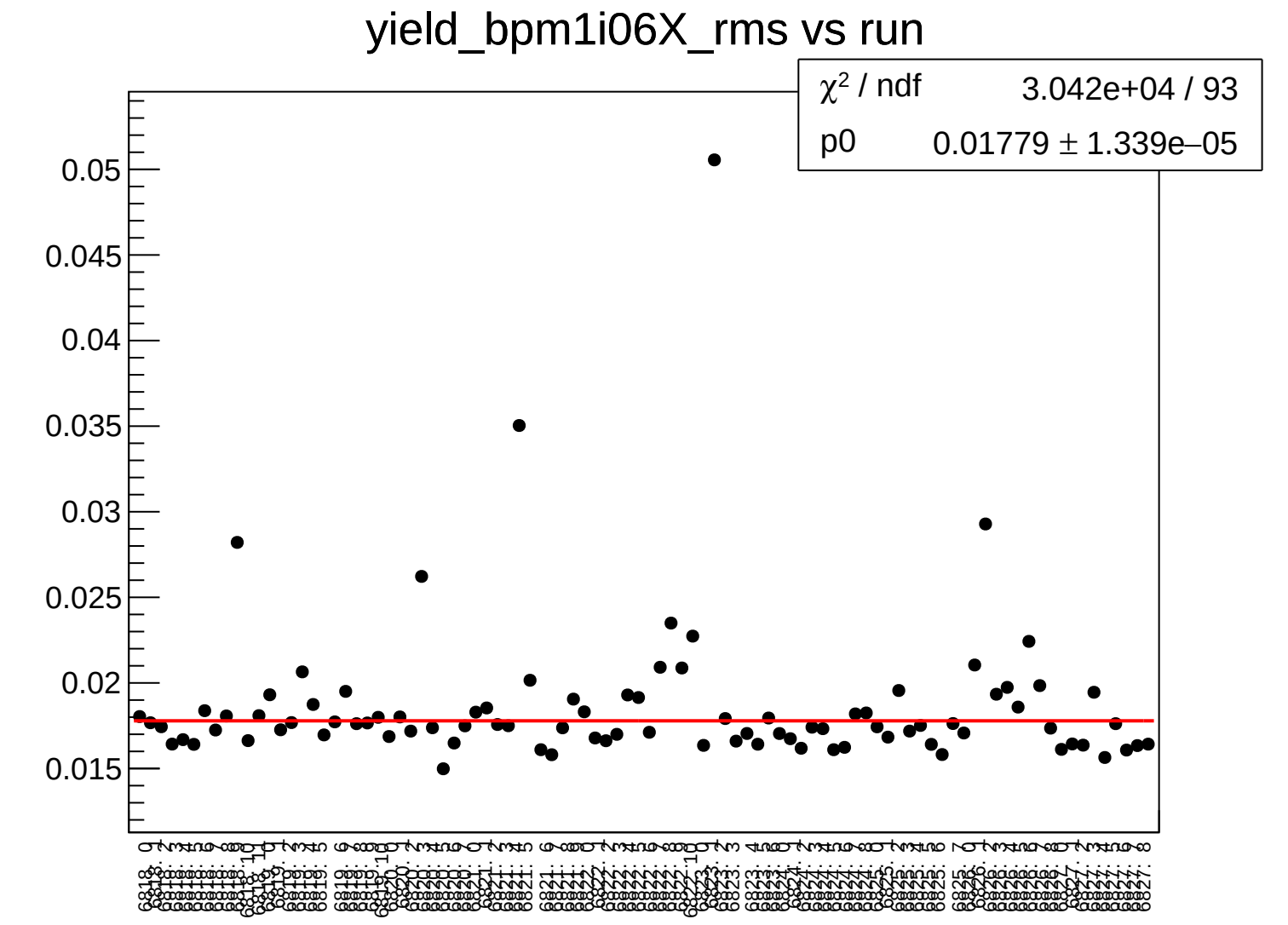

yield_bpm1i04Y_mean vs run
χ² / ndf 6.938e+06 / 93
p0 2.031± 1.115e−05
2.08
2.06
2.04
2.02
2
1.98
1.96
1.94
1.92
1.9
pull
Entries 94
Mean 271.7
Std Dev 0
400
200
0
−200
−400
−600

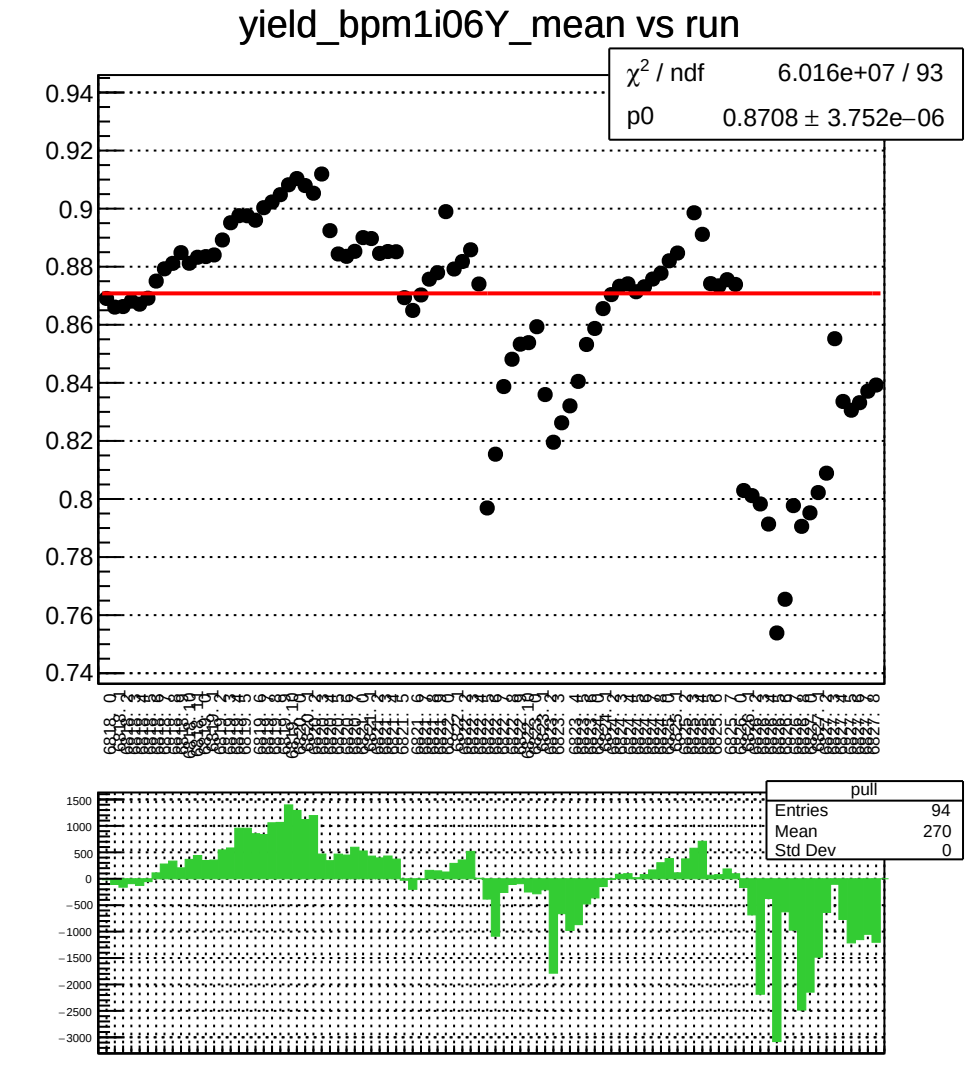

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

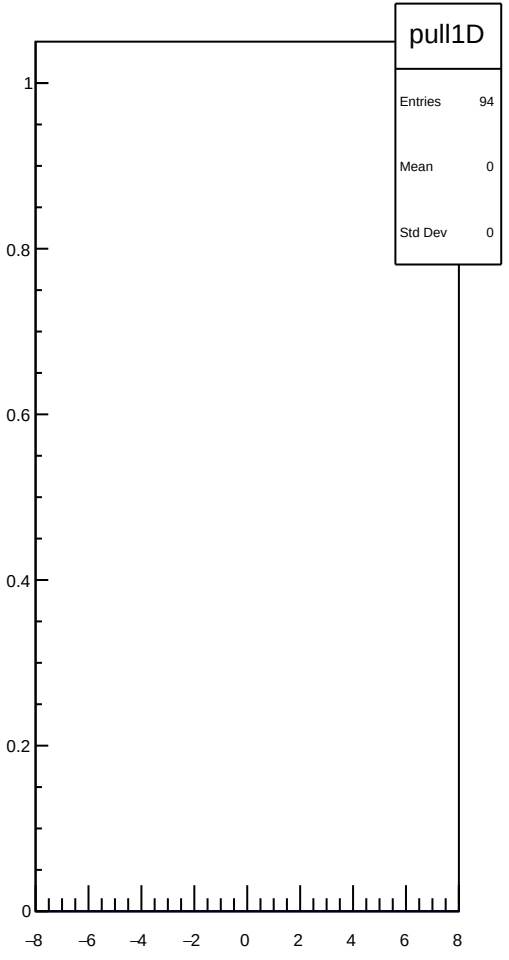

yield_bpm1i04Y_rms vs run
χ² / ndf 1.541e+05 / 93
p0 0.0101 ± 7.882e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

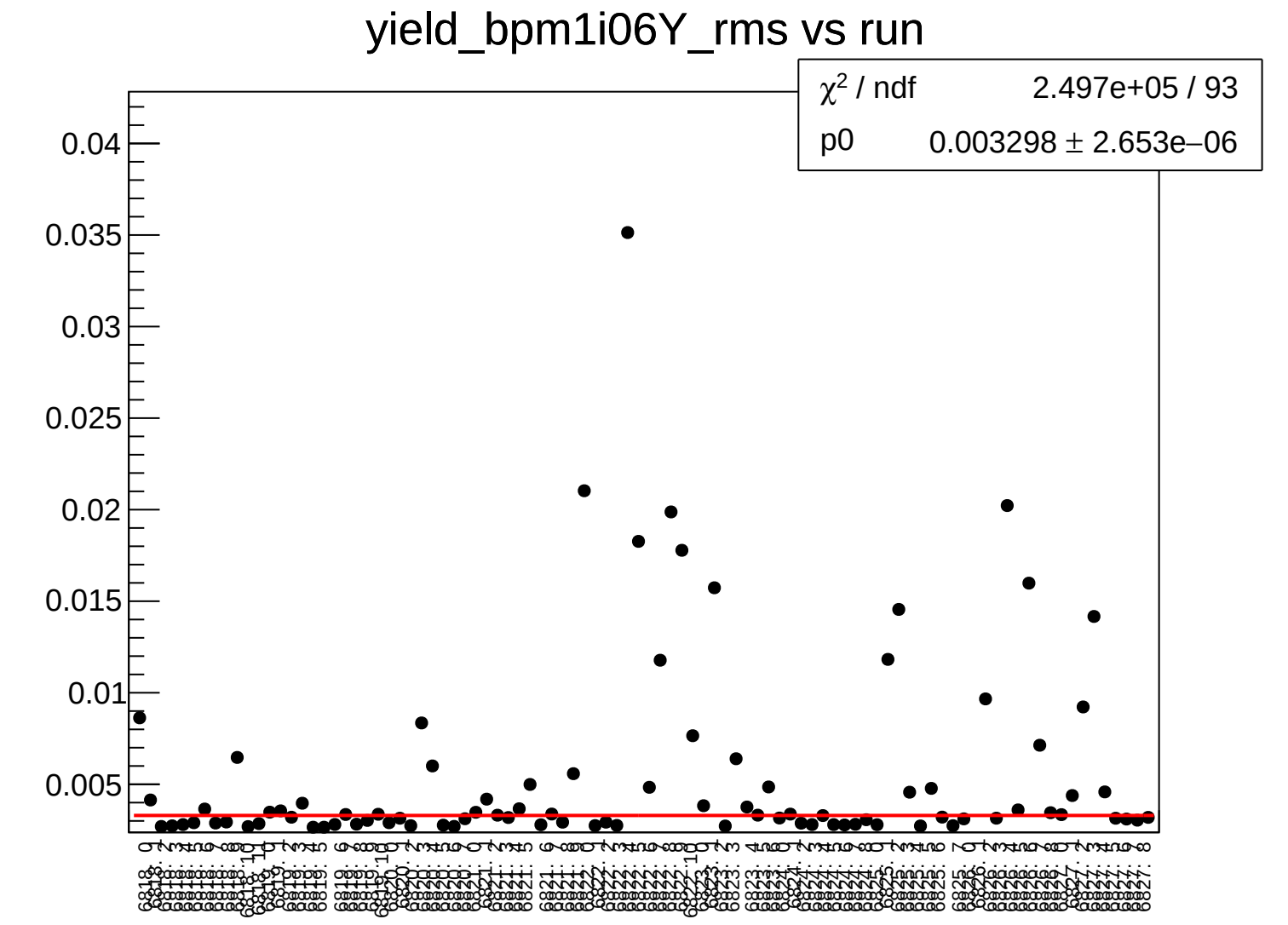

yield_bpm1i06X_mean vs run
χ² / ndf 6.056e+05 / 93
p0 −0.2678 ± 1.894e−05
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 94
Mean 237.7
Std Dev 0
200
100
0
−100
−200
−300

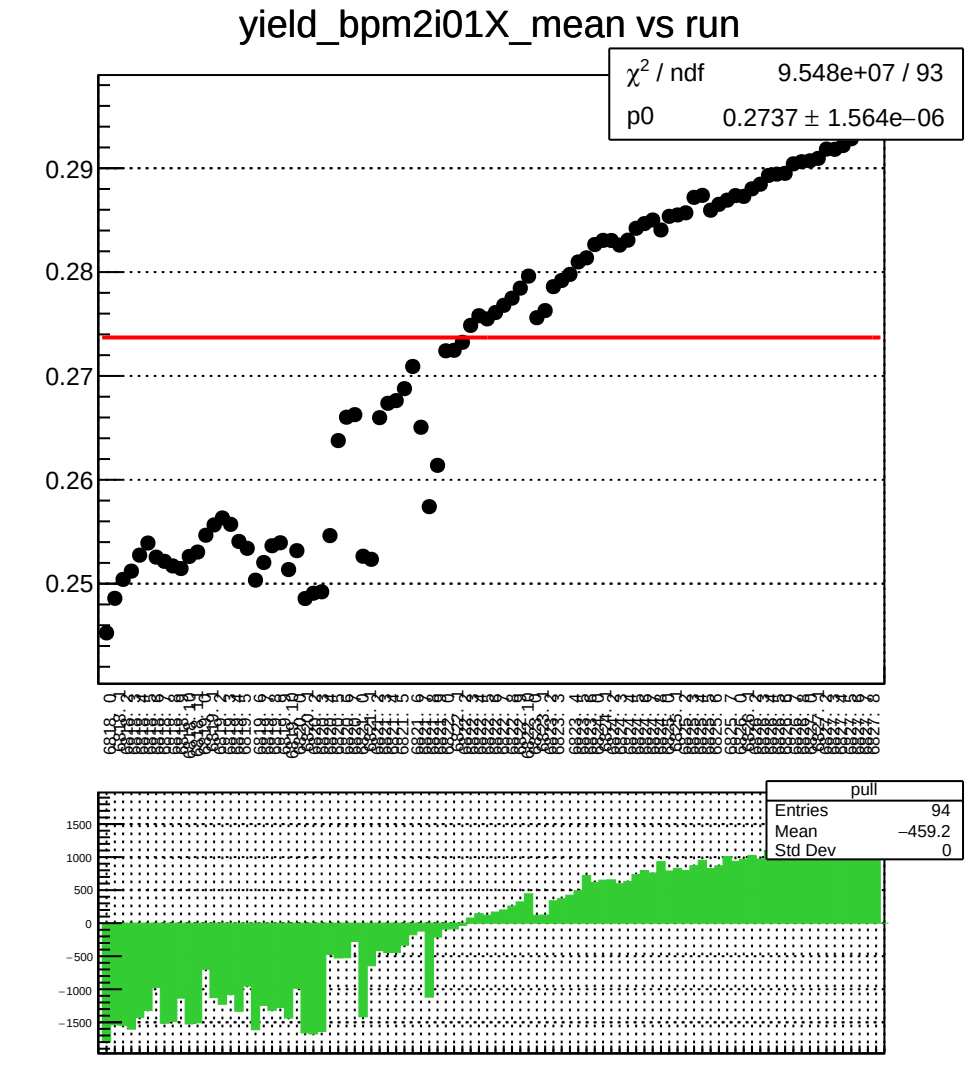

pull1D
Entries 94
Mean 1.066
Std Dev 5.284
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

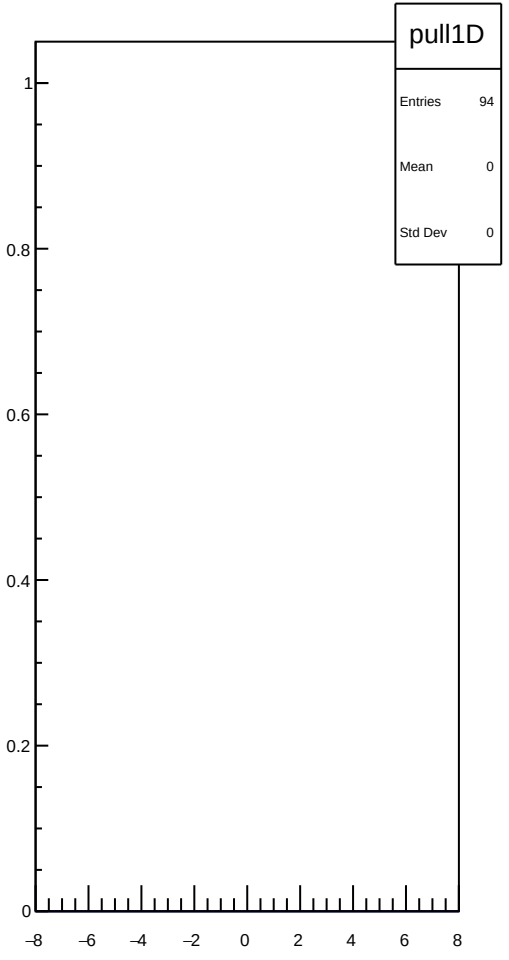

yield_bpm1i06X_rms vs run
χ² / ndf 3.042e+04 / 93
p0 0.01779 ± 1.339e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

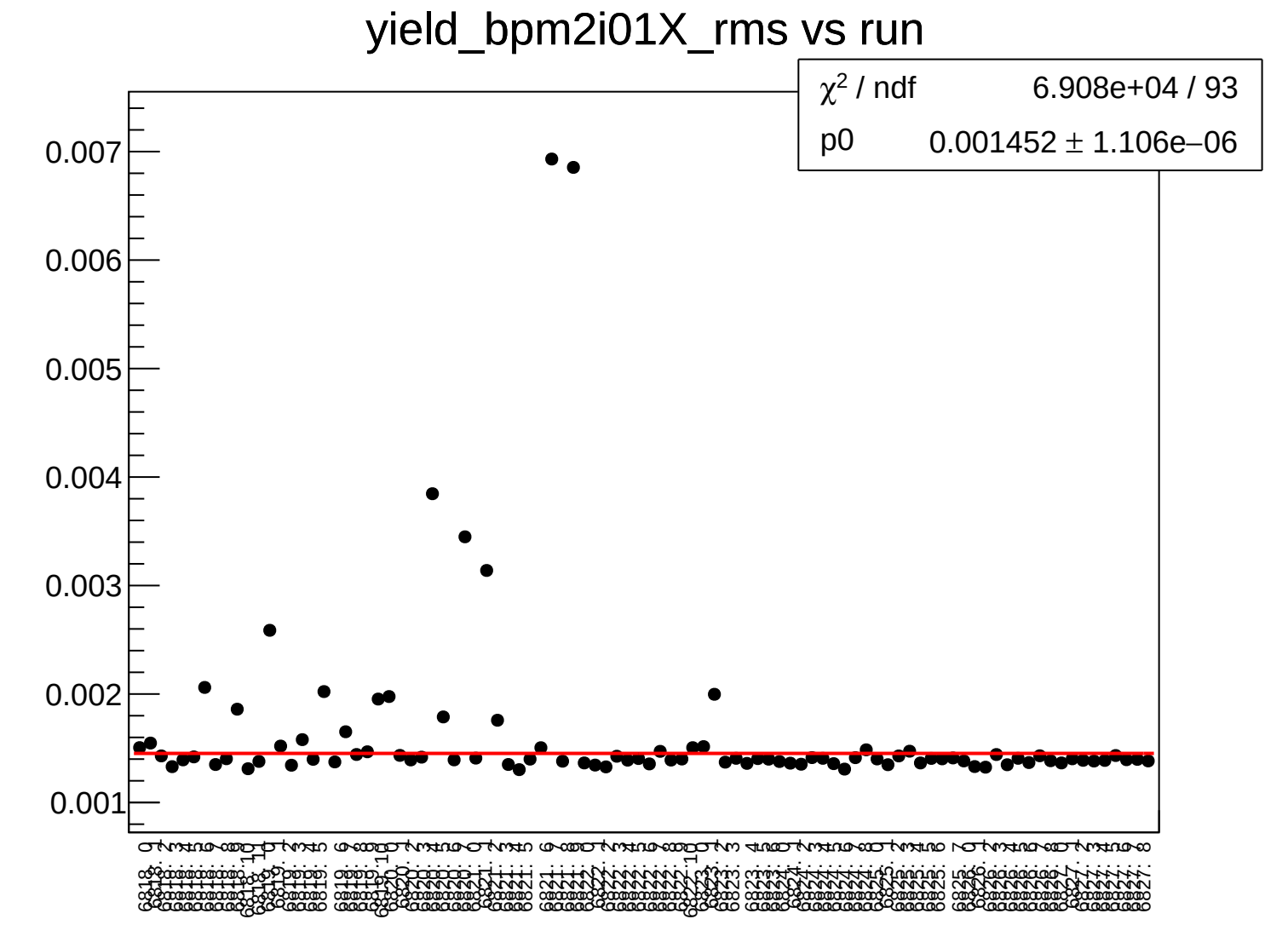

yield_bpm1i06Y_mean vs run
χ² / ndf 6.016e+07 / 93
p0 0.8708 ± 3.752e−06
pull
Entries 94
Mean 270
Std Dev 0

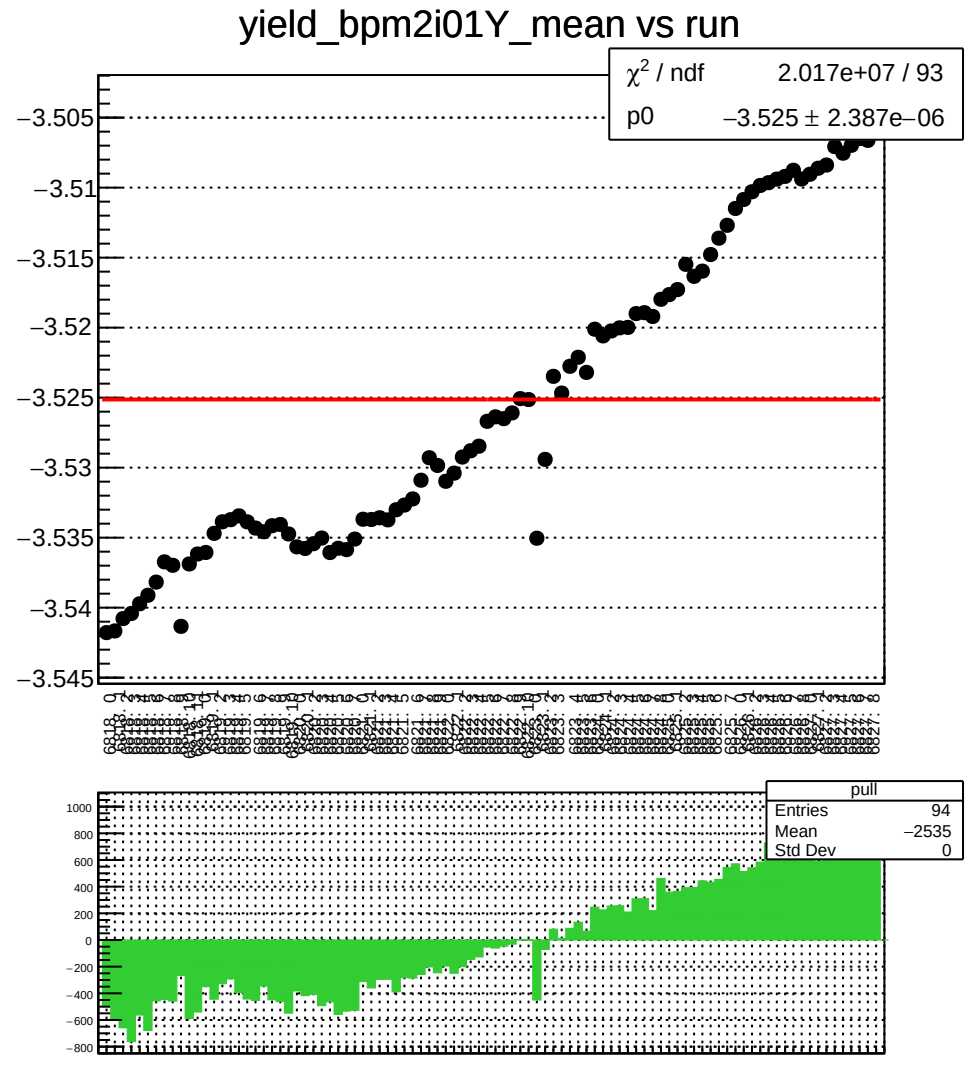

pull1D
Entries 94
Mean 0
Std Dev 0

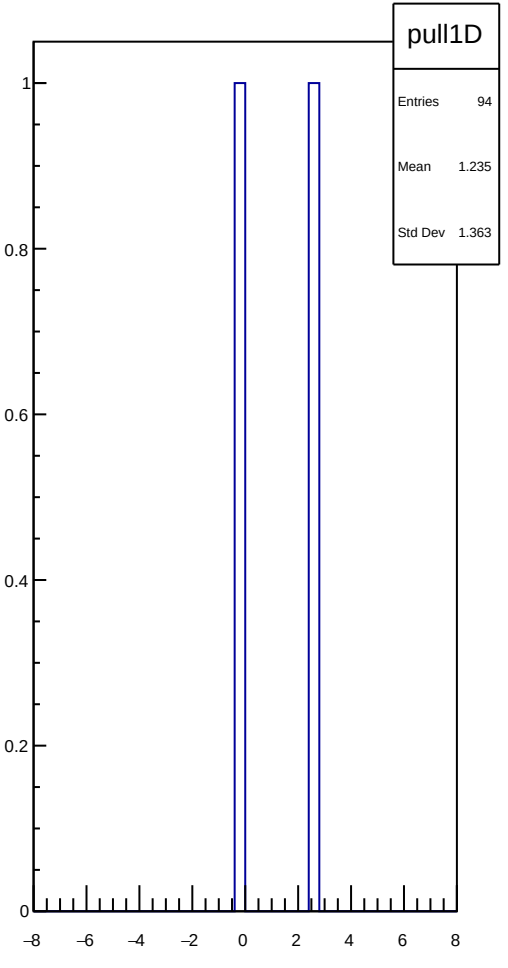

yield_bpm1i06Y_rms vs run
χ² / ndf 2.497e+05 / 93
p0 0.003298 ± 2.653e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

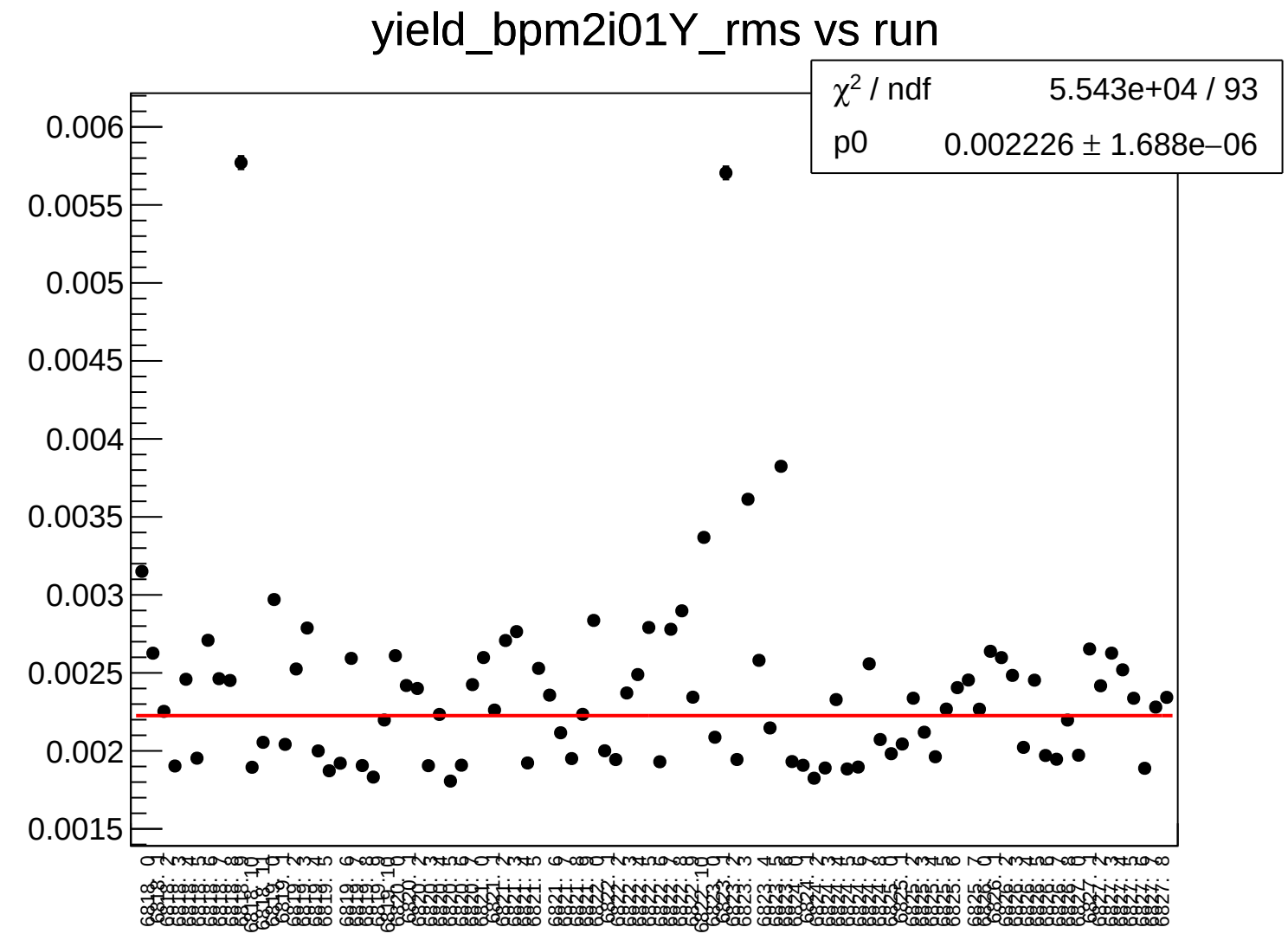

yield_bpm2i01X_mean vs run
χ² / ndf 9.548e+07 / 93
p0 0.2737 ± 1.564e−06
0.29
0.28
0.27
0.26
0.25
pull
Entries 94
Mean −459.2
Std Dev 0
1500
1000
500
0
−500
−1000
−1500

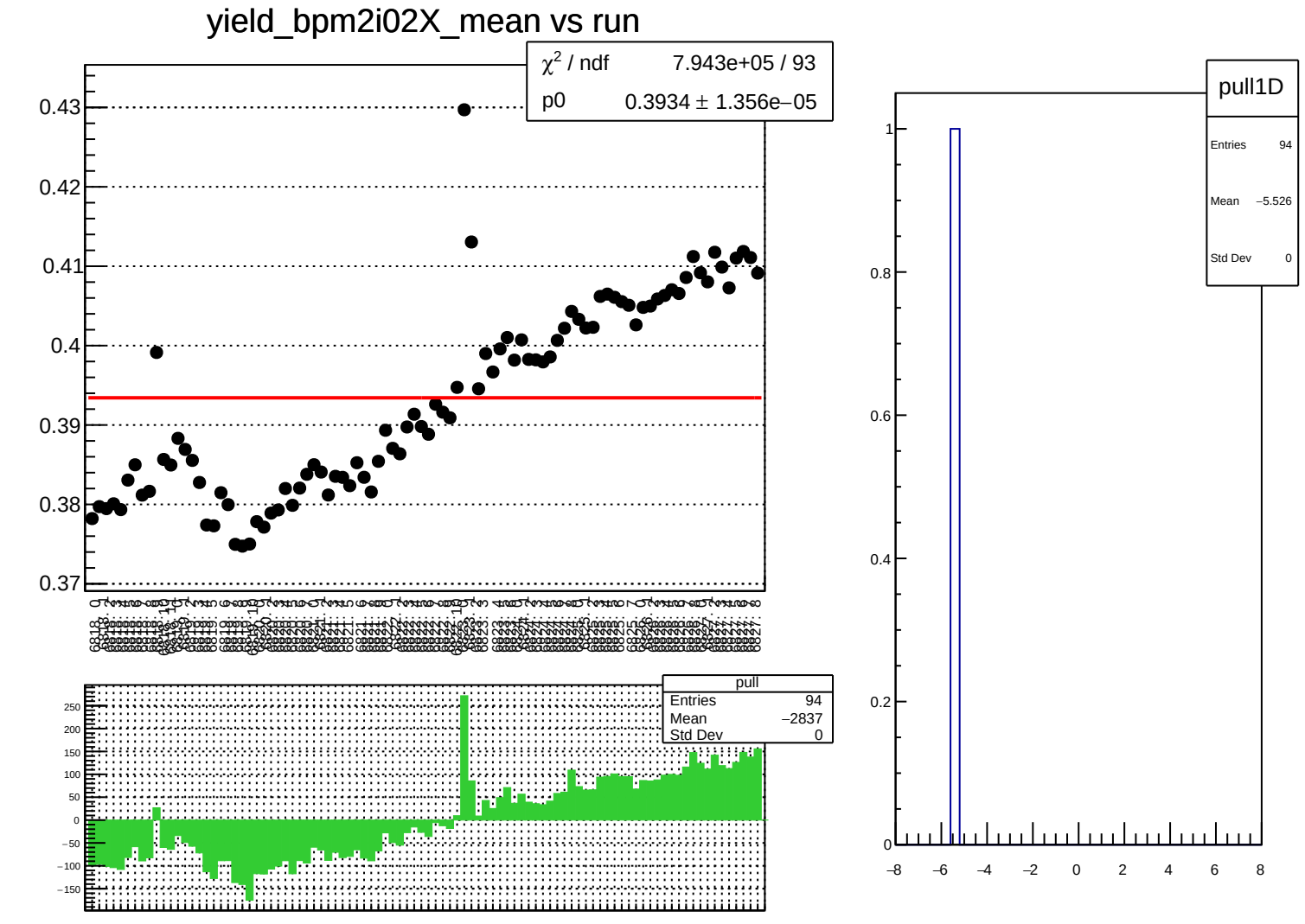

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

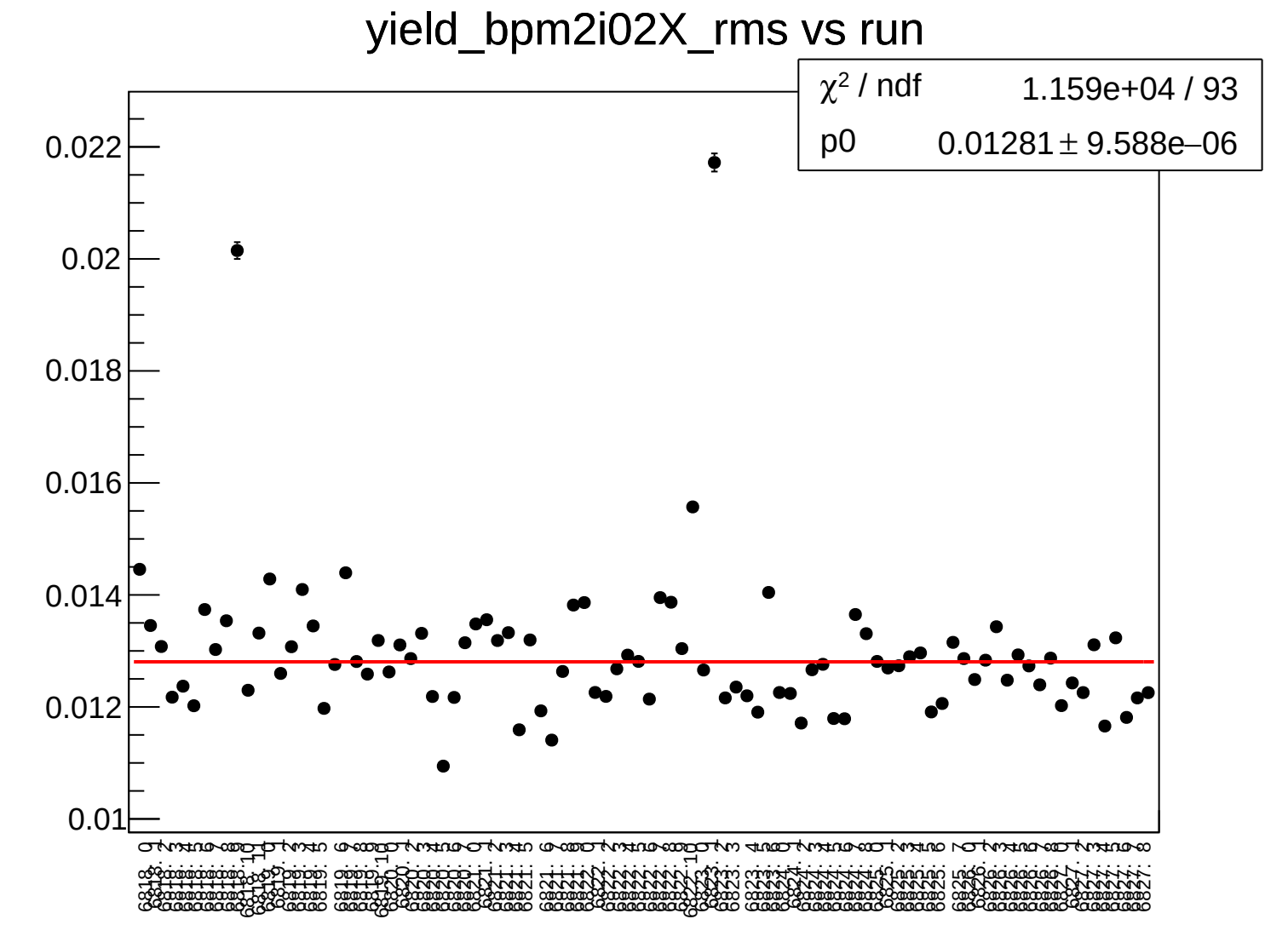

yield_bpm2i01X_rms vs run
χ² / ndf 6.908e+04 / 93
p0 0.001452 ± 1.106e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

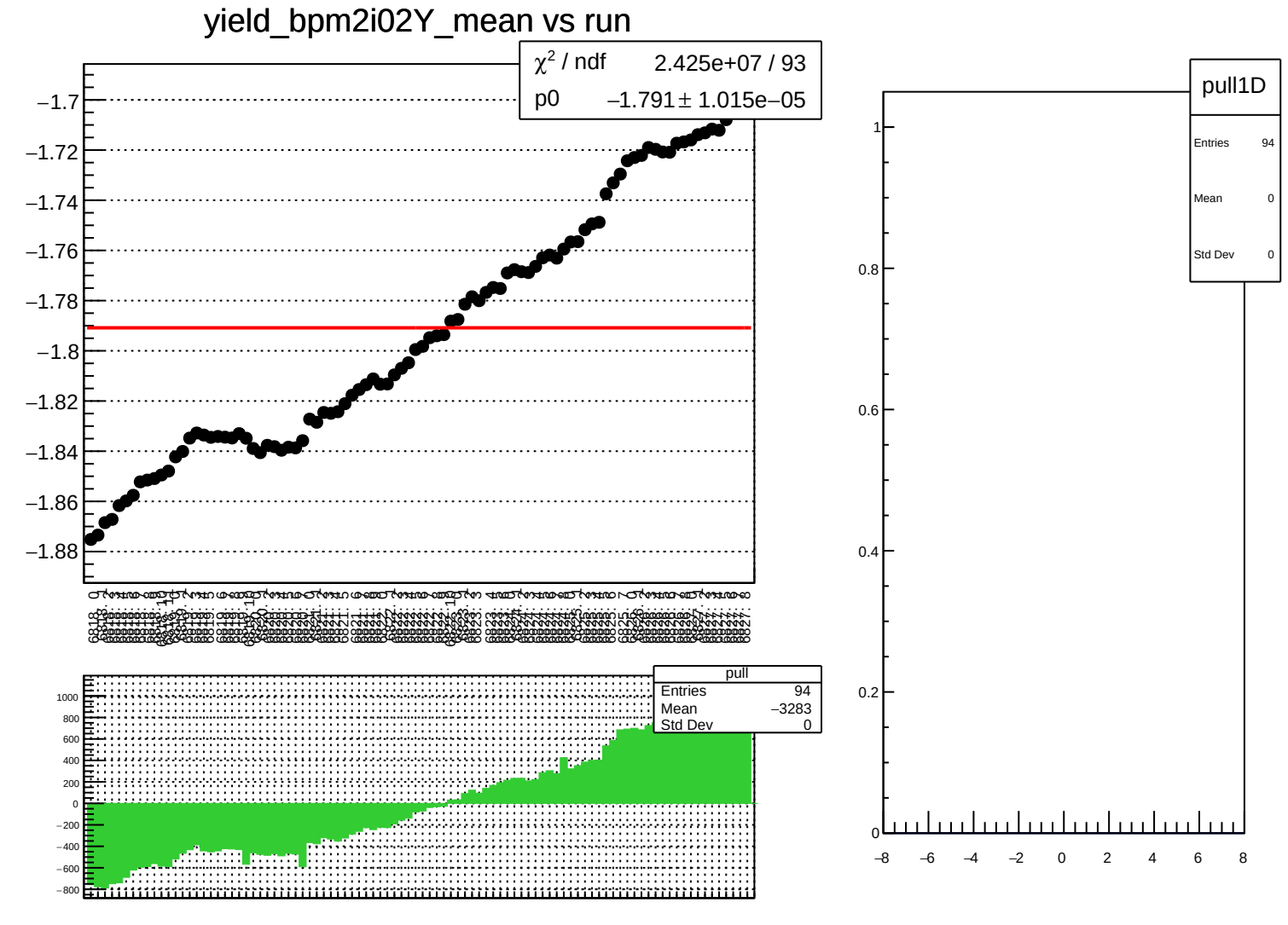

yield_bpm2i01Y_mean vs run
χ² / ndf 2.017e+07 / 93
p0 −3.525 ± 2.387e−06
−3.505
−3.51
−3.515
−3.52
−3.525
−3.53
−3.535
−3.54
−3.545
pull
Entries 94
Mean −2535
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800

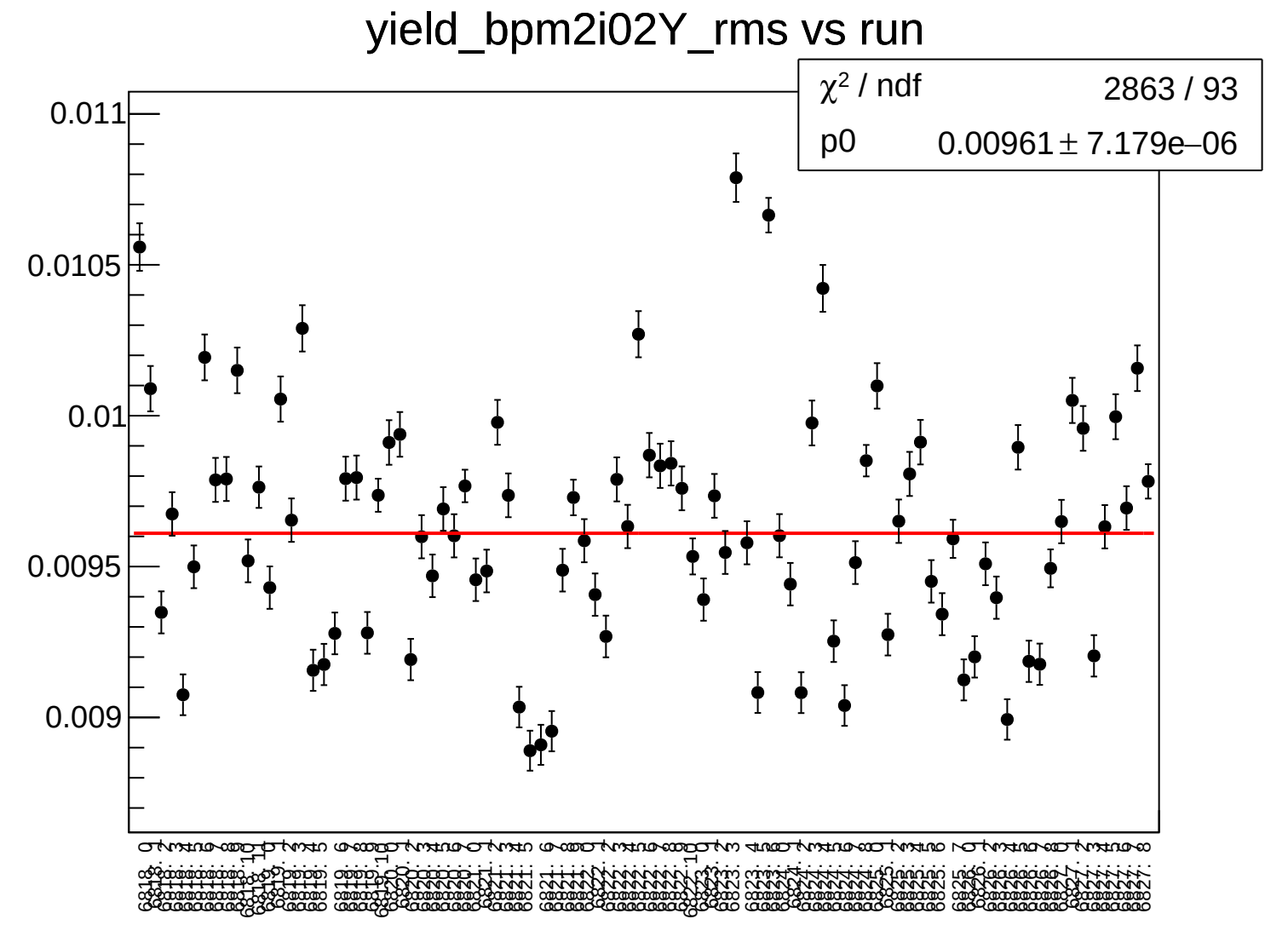

pull1D
Entries 94
Mean 1.235
Std Dev 1.363
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

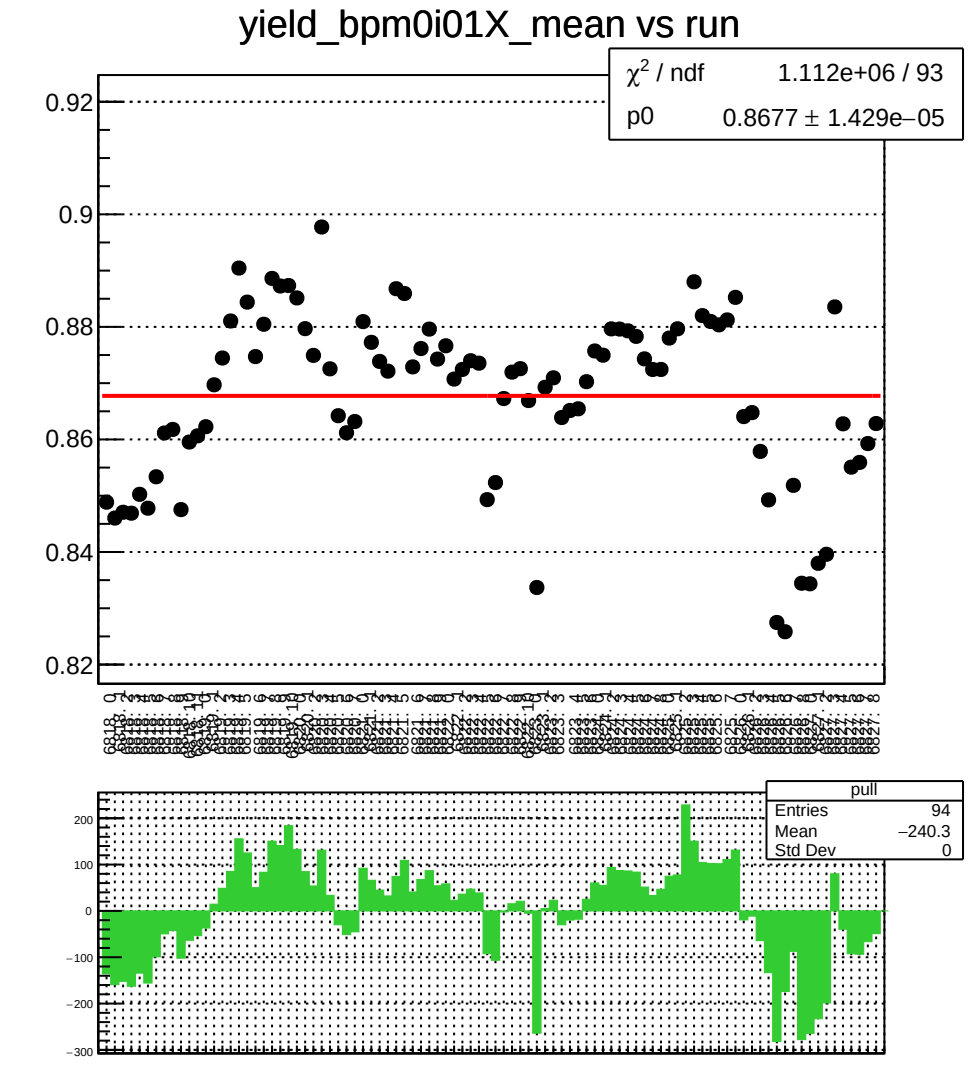

yield_bpm2i01Y_rms vs run
χ² / ndf 5.543e+04 / 93
p0 0.002226 ± 1.688e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

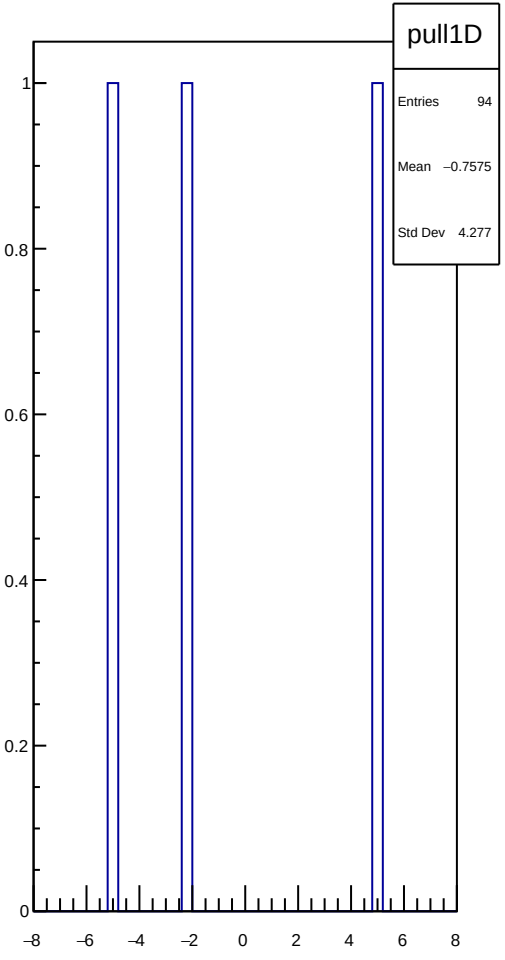

yield_bpm2i02X_mean vs run
χ² / ndf 7.943e+05 / 93
p0 0.3934 ± 1.356e−05
0.43
0.42
0.41
0.4
0.39
0.38
0.37
pull
Entries 94
Mean −2837
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −5.526
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

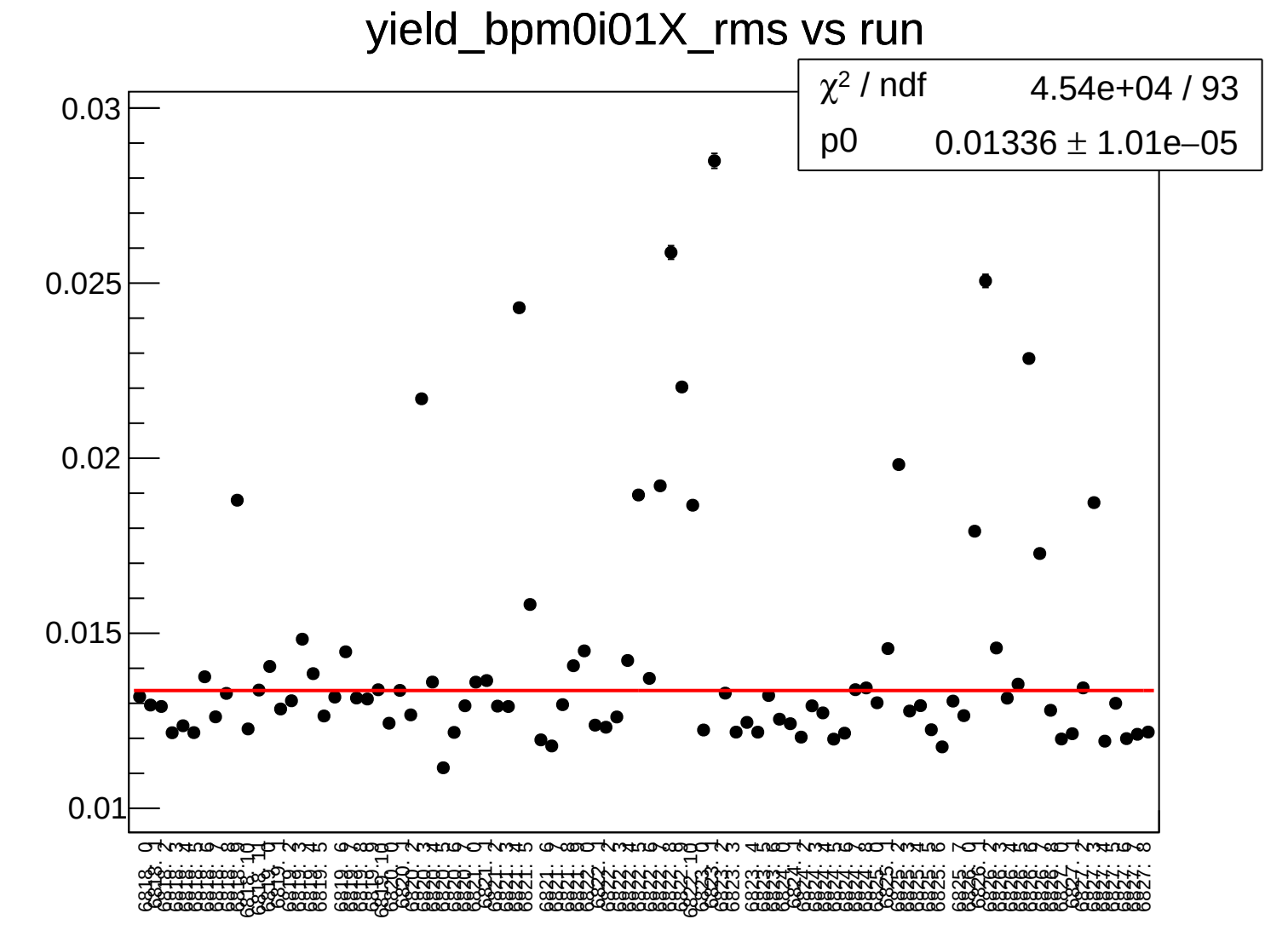

yield_bpm2i02X_rms vs run
χ² / ndf 1.159e+04 / 93
p0 0.01281 ± 9.588e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

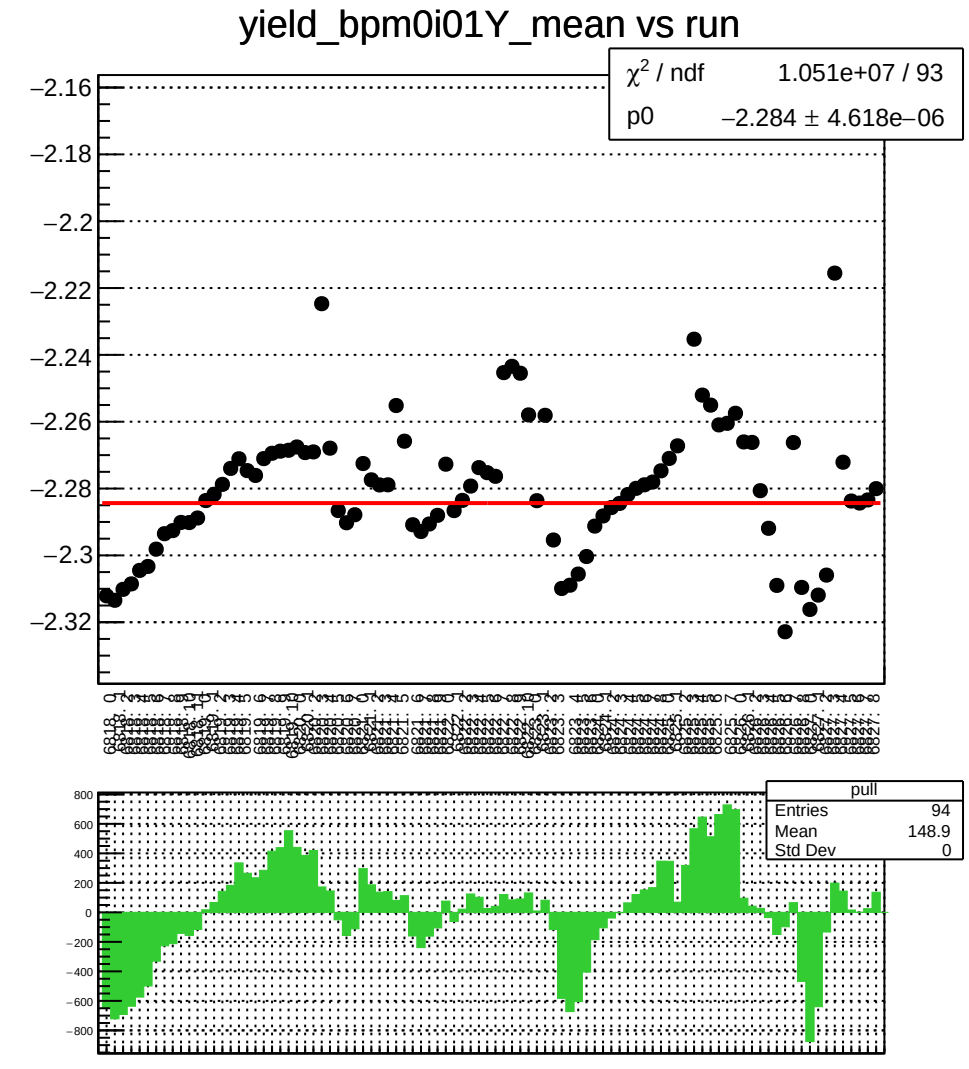

yield_bpm2i02Y_mean vs run
χ² / ndf 2.425e+07 / 93
p0 −1.791 ± 1.015e−05
−1.7
−1.72
−1.74
−1.76
−1.78
−1.8
−1.82
−1.84
−1.86
−1.88
pull
Entries 94
Mean −3283
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

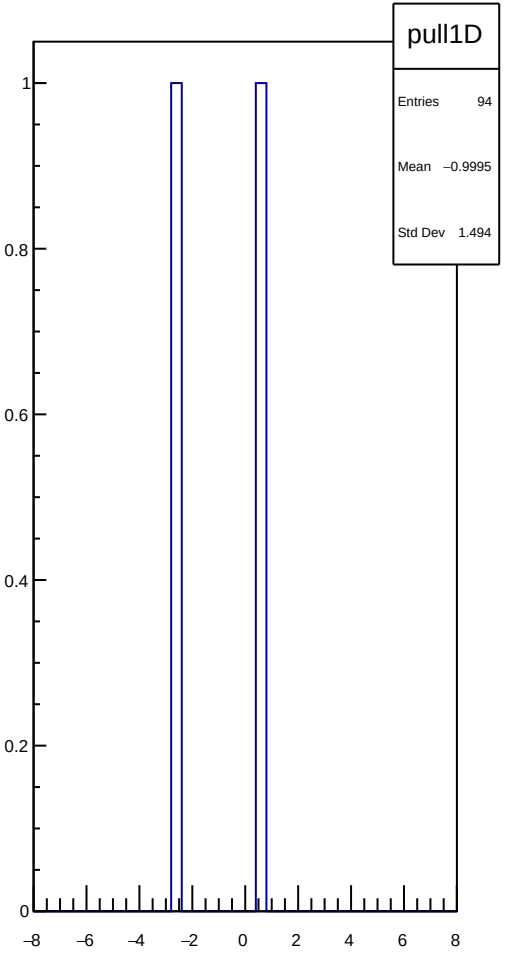

yield_bpm2i02Y_rms vs run
χ² / ndf 2863 / 93
p0 0.00961 ± 7.179e–06
0.011
0.0105
0.01
0.0095
0.009

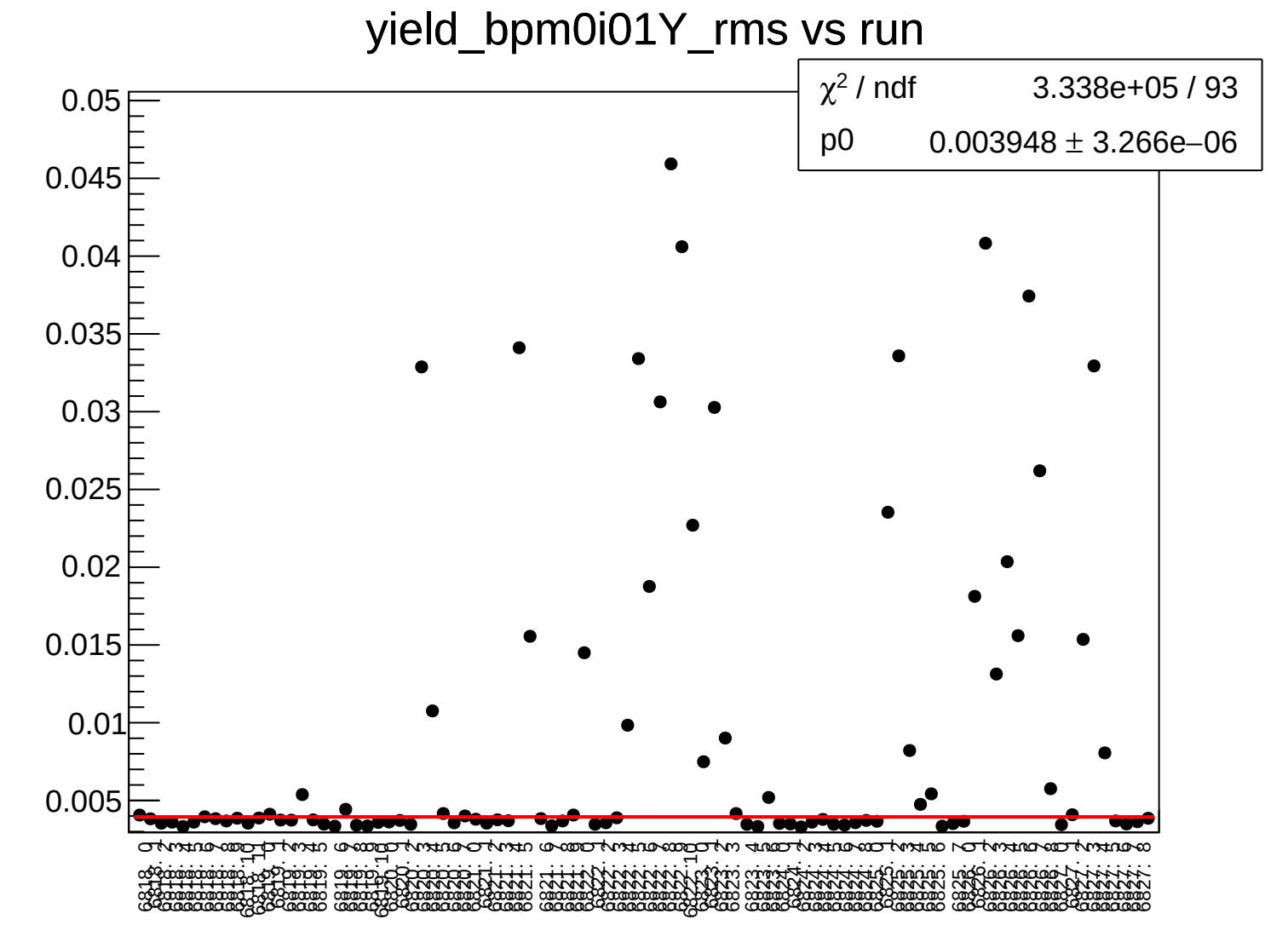

yield_bpm0i01X_mean vs run
χ² / ndf 1.112e+06 / 93
p0 0.8677 ± 1.429e−05
0.92
0.9
0.88
0.86
0.84
0.82
pull
Entries 94
Mean −240.3
Std Dev 0
200
100
0
−100
−200
−300

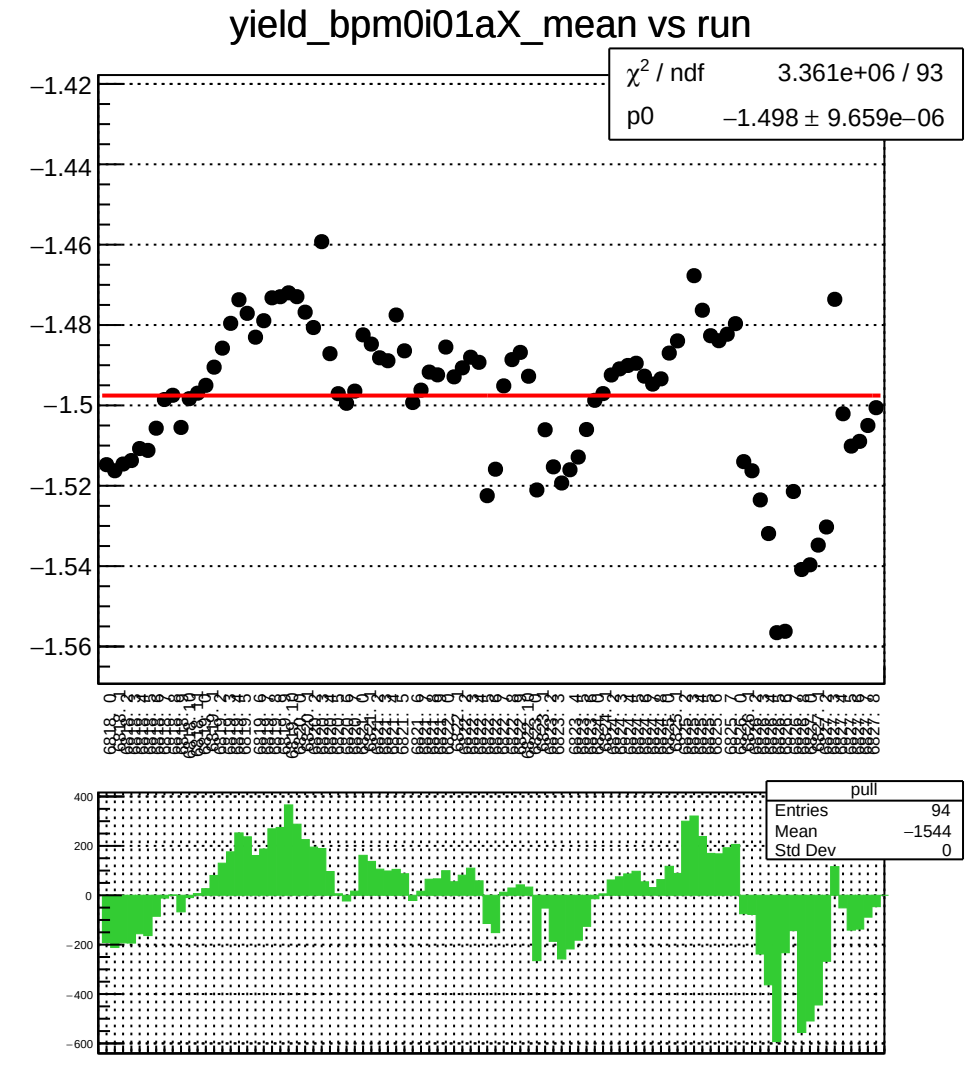

pull1D
Entries 94
Mean −0.7575
Std Dev 4.277
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

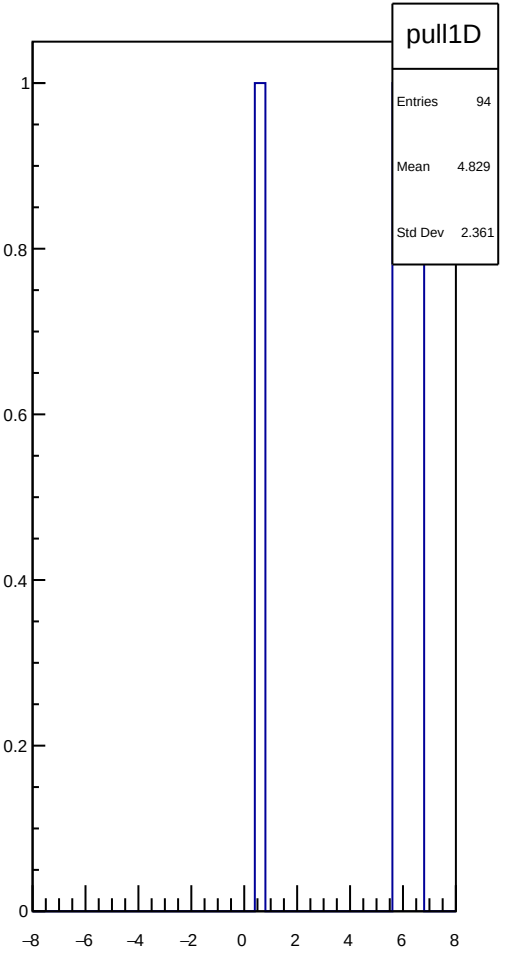

yield_bpm0i01X_rms vs run
χ² / ndf 4.54e+04 / 93
p0 0.01336 ± 1.01e−05
0.03
0.025
0.02
0.015
0.01

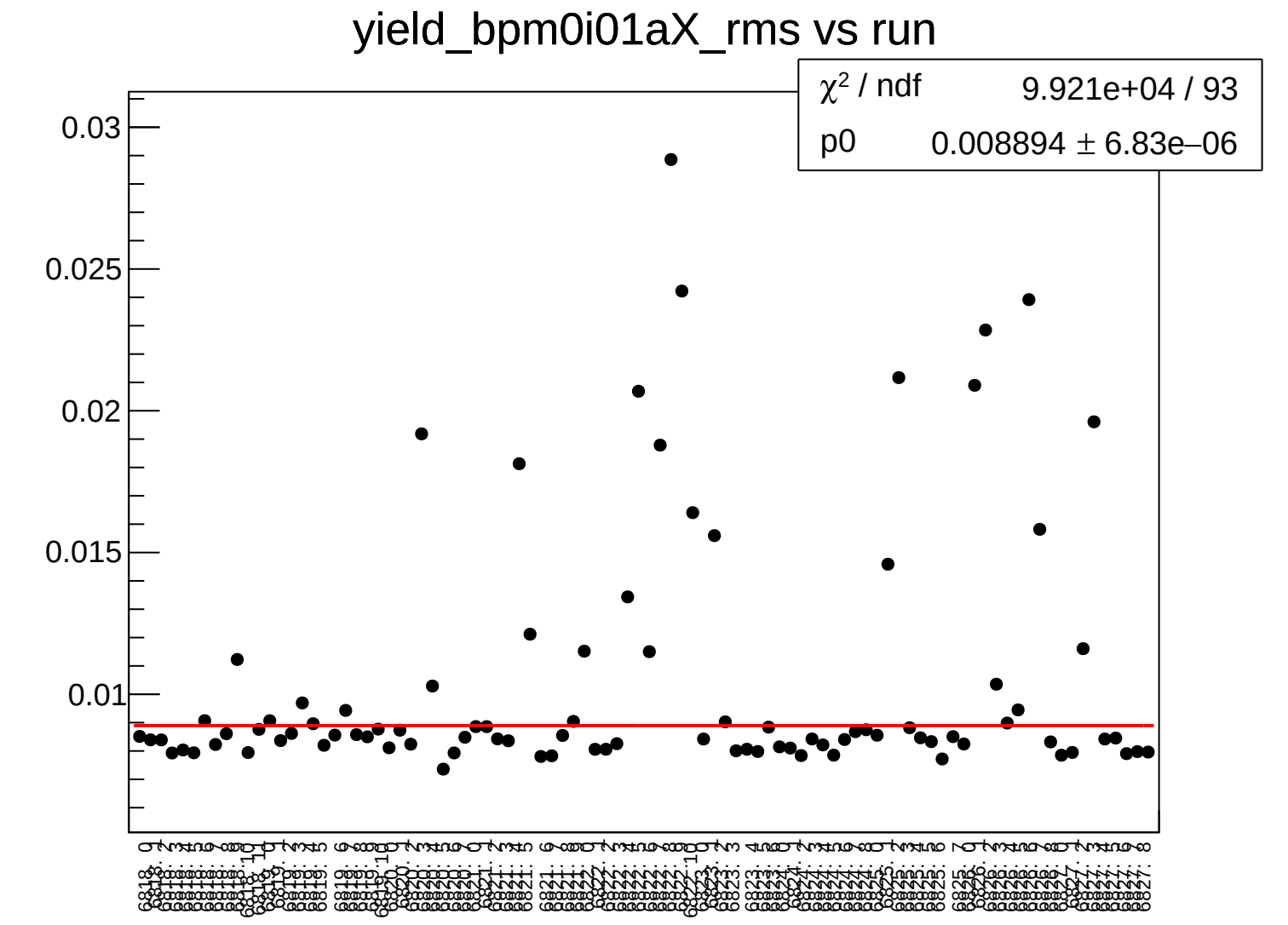

yield_bpm0i01Y_mean vs run
χ² / ndf 1.051e+07 / 93
p0 −2.284 ± 4.618e−06
−2.16
−2.18
−2.2
−2.22
−2.24
−2.26
−2.28
−2.3
−2.32
pull
Entries 94
Mean 148.9
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

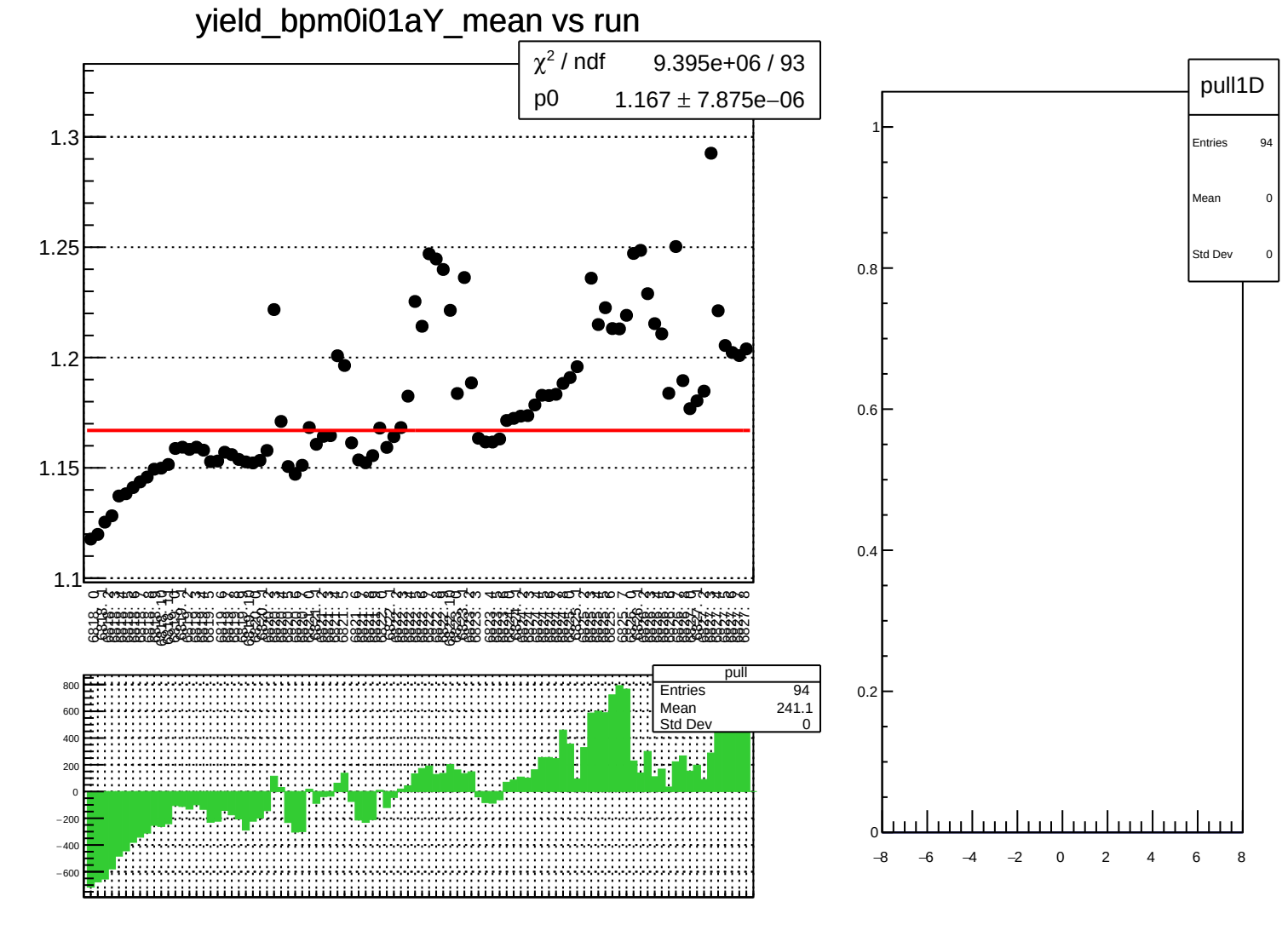

pull1D
Entries 94
Mean −0.9995
Std Dev 1.494
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

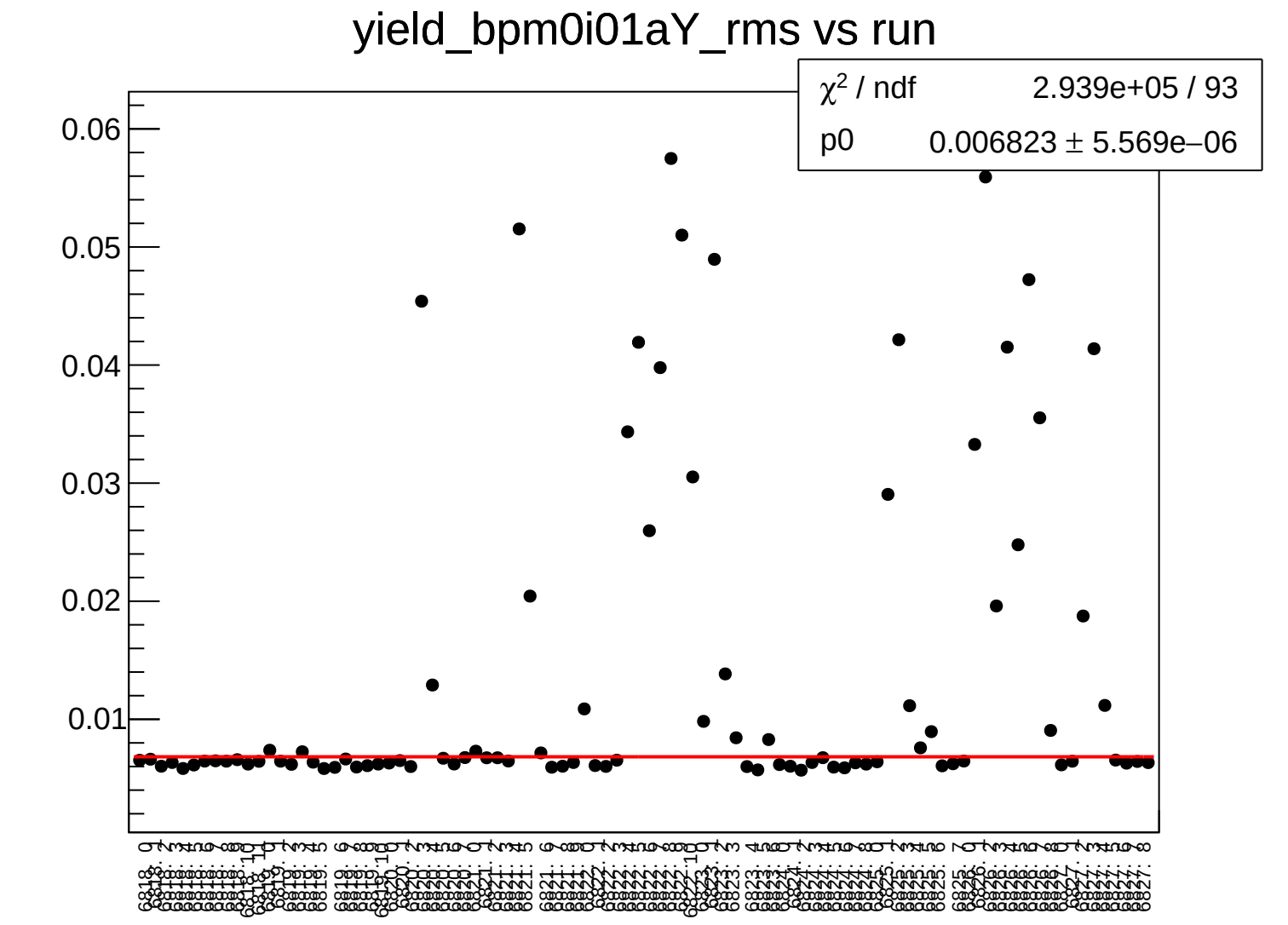

yield_bpm0i01Y_rms vs run
χ^2 / ndf 3.338e+05 / 93
p0 0.003948 ± 3.266e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

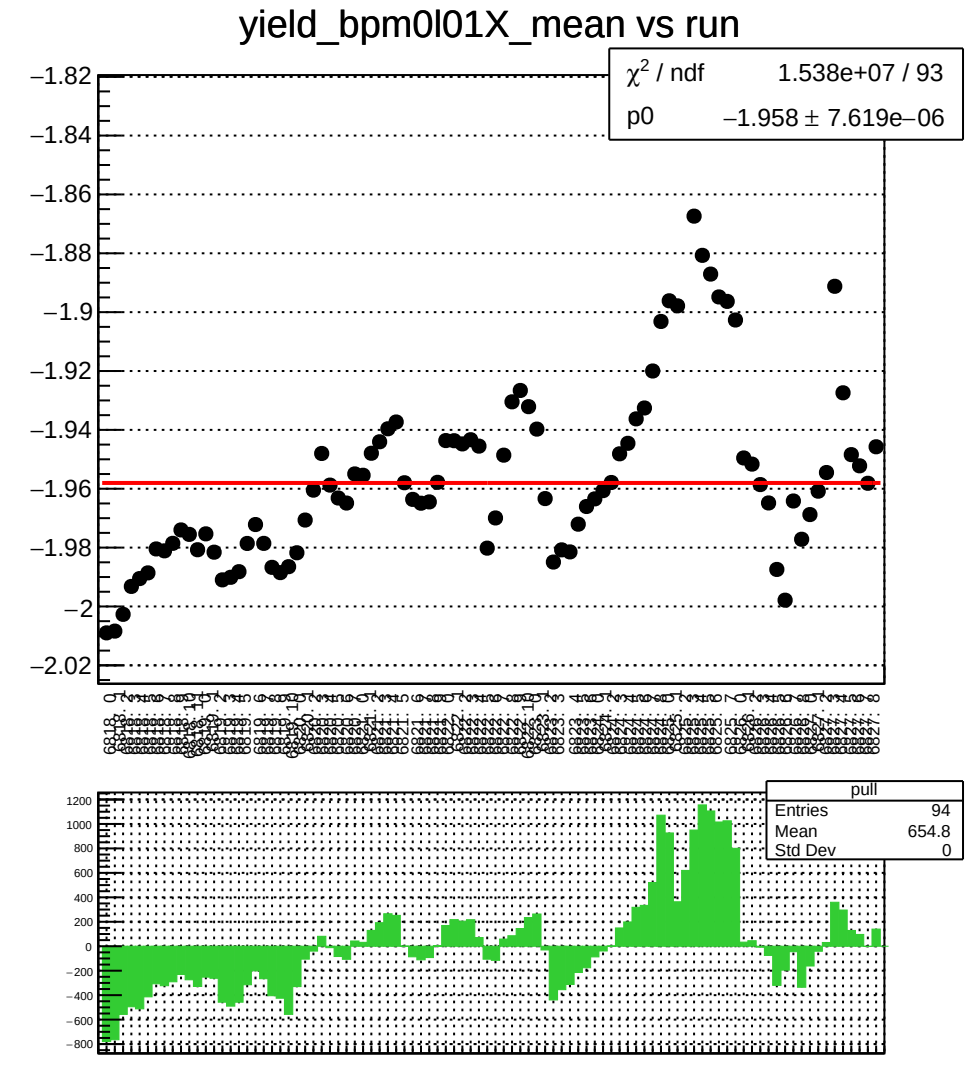

yield_bpm0i01aX_mean vs run
χ² / ndf 3.361e+06 / 93
p0 −1.498 ± 9.659e−06
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
pull
Entries 94
Mean −1544
Std Dev 0
400
200
0
−200
−400
−600

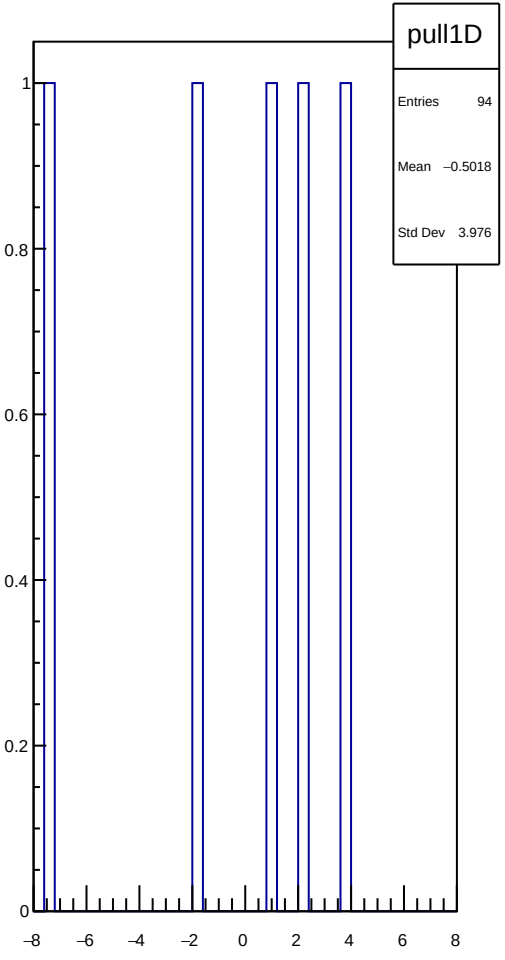

pull1D
Entries 94
Mean 4.829
Std Dev 2.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

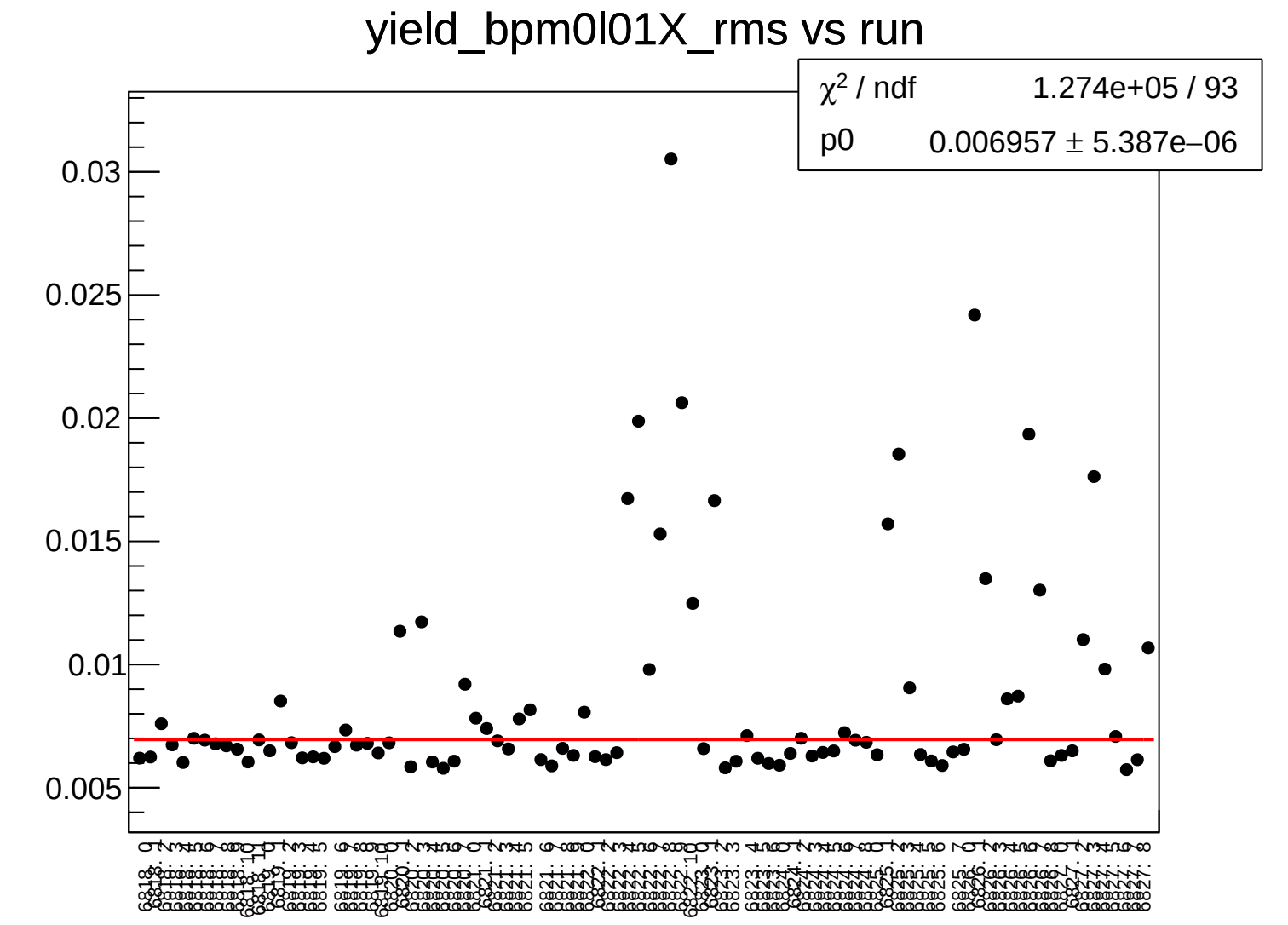

yield_bpm0i01aX_rms vs run
χ² / ndf 9.921e+04 / 93
p0 0.008894 ± 6.83e−06
0.03
0.025
0.02
0.015
0.01

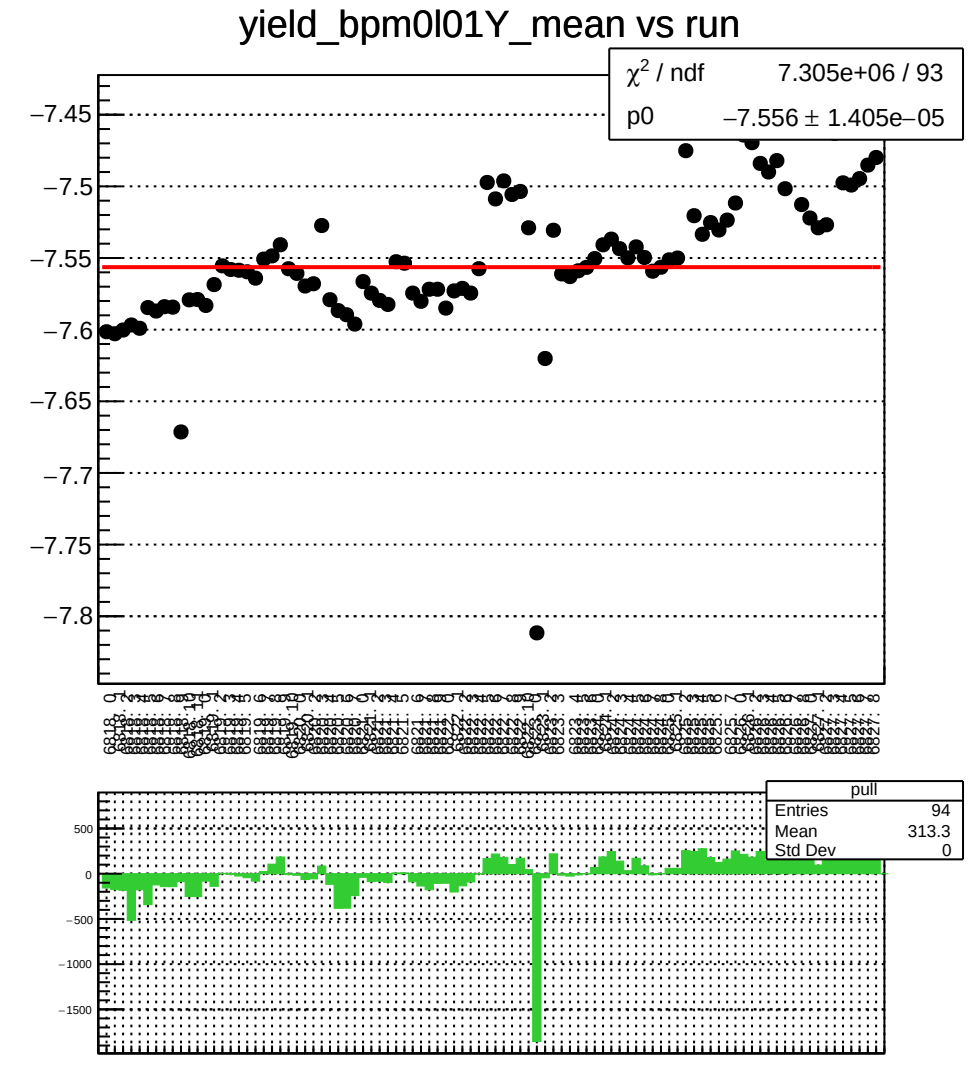

yield_bpm0i01aY_mean vs run
χ² / ndf 9.395e+06 / 93
p0 1.167 ± 7.875e−06
1.3
1.25
1.2
1.15
1.1
pull
Entries 94
Mean 241.1
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

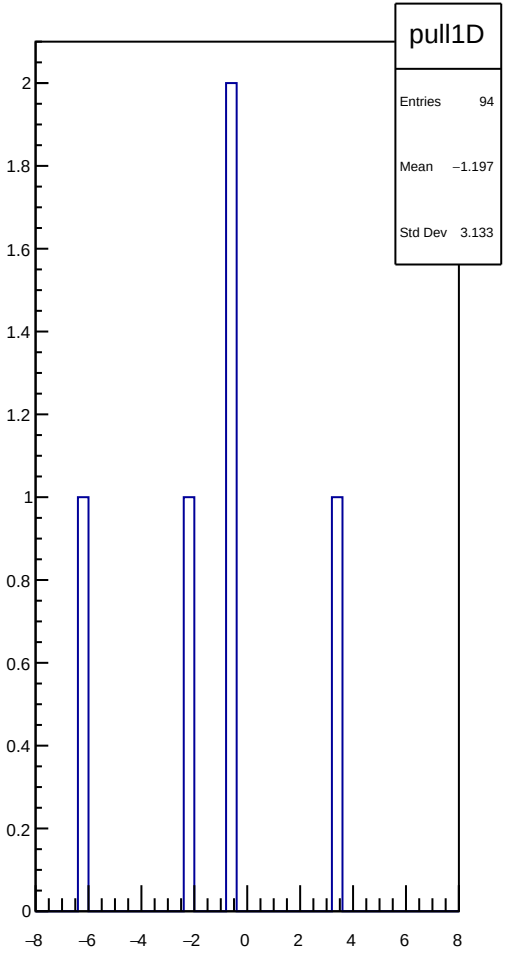

yield_bpm0i01aY_rms vs run
χ² / ndf 2.939e+05 / 93
p0 0.006823 ± 5.569e−06
0.06
0.05
0.04
0.03
0.02
0.01

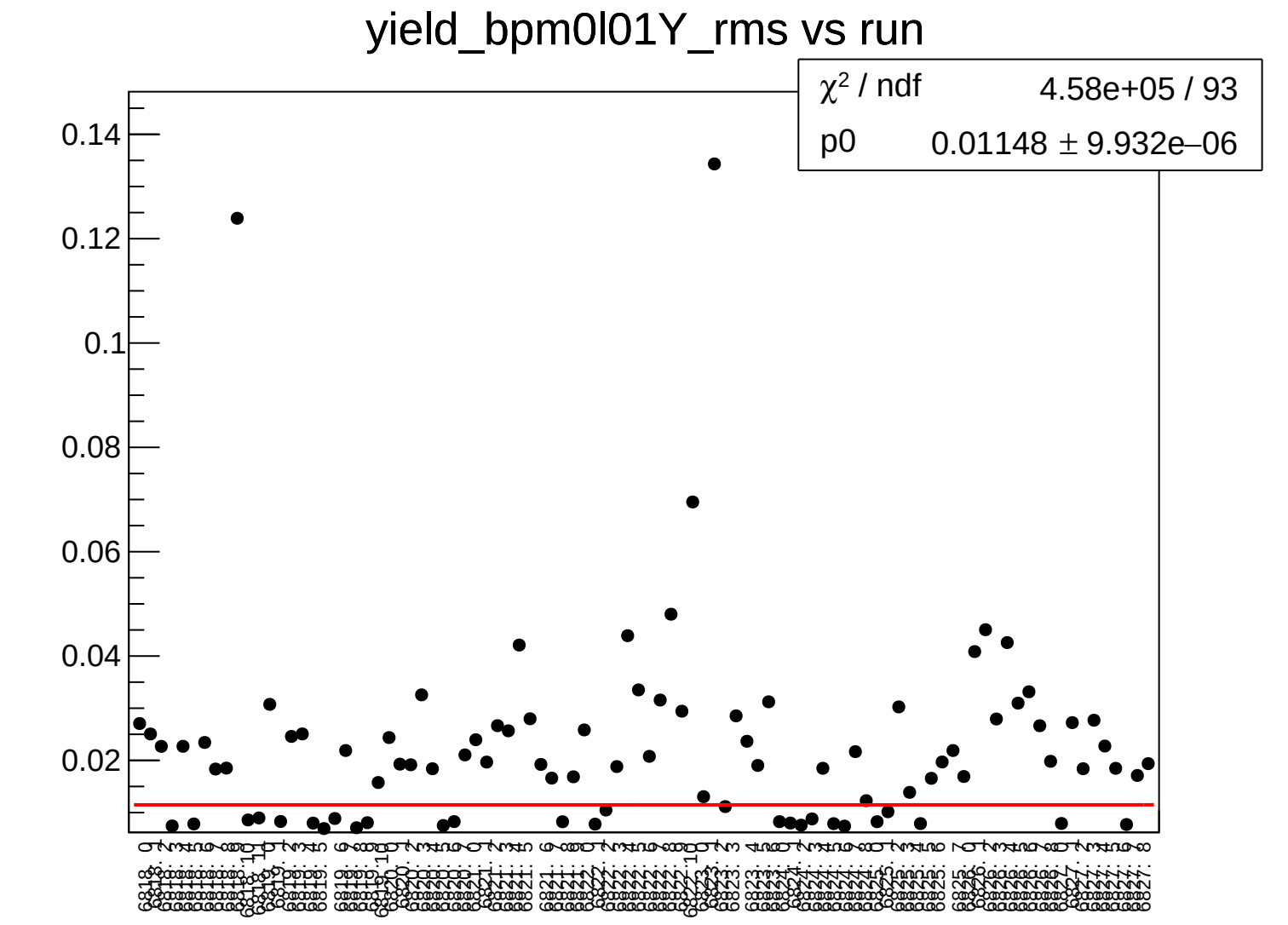

yield_bpm0l01X_mean vs run
χ² / ndf 1.538e+07 / 93
p0 −1.958 ± 7.619e−06
pull
Entries 94
Mean 654.8
Std Dev 0

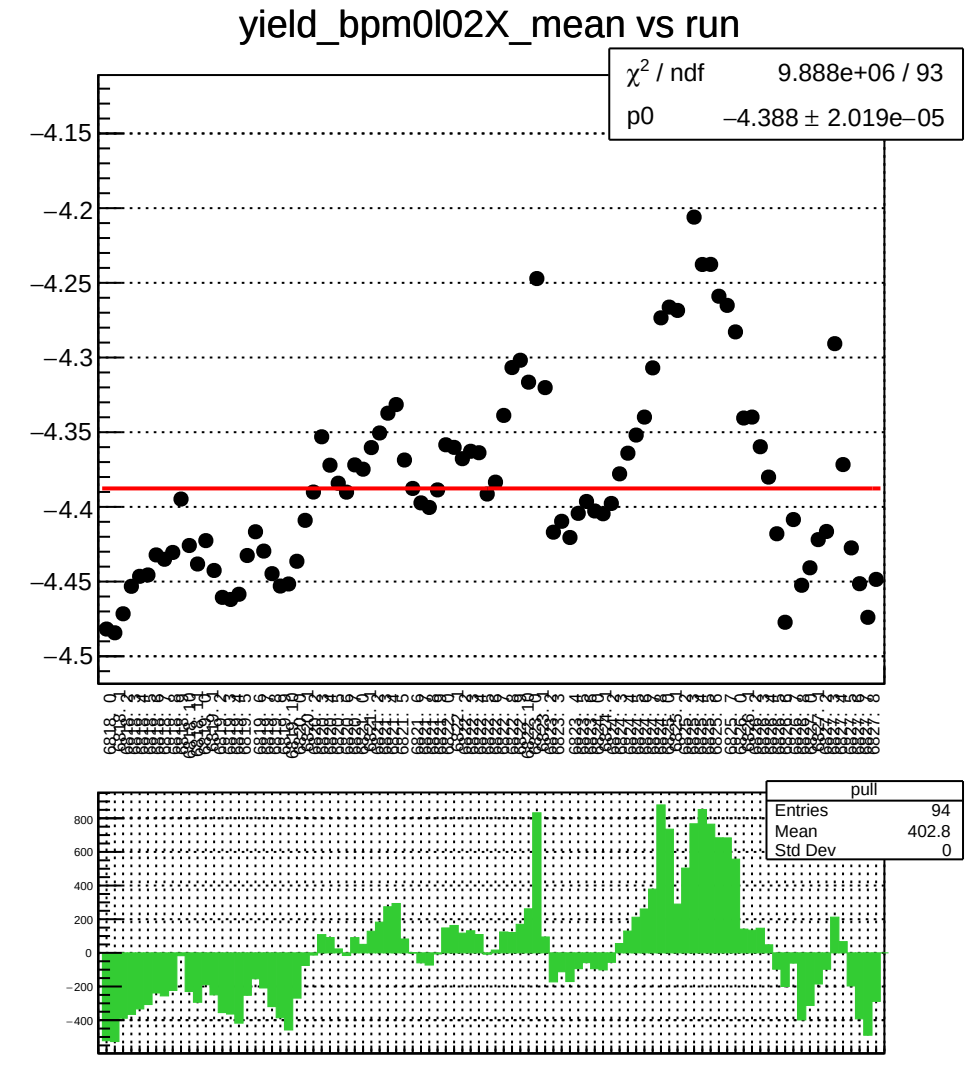

pull1D
Entries 94
Mean −0.5018
Std Dev 3.976

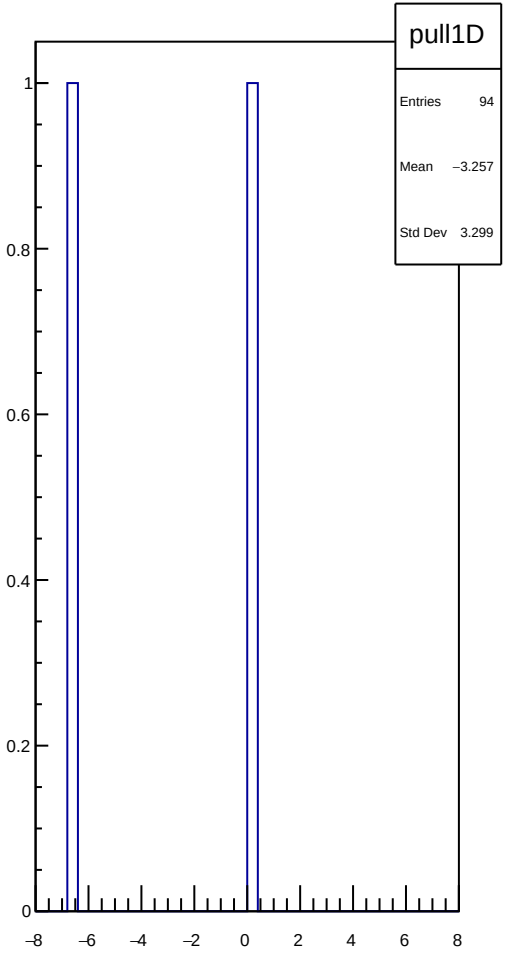

yield_bpm0l01X_rms vs run
χ² / ndf 1.274e+05 / 93
p0 0.006957 ± 5.387e−06
0.03
0.025
0.02
0.015
0.01
0.005

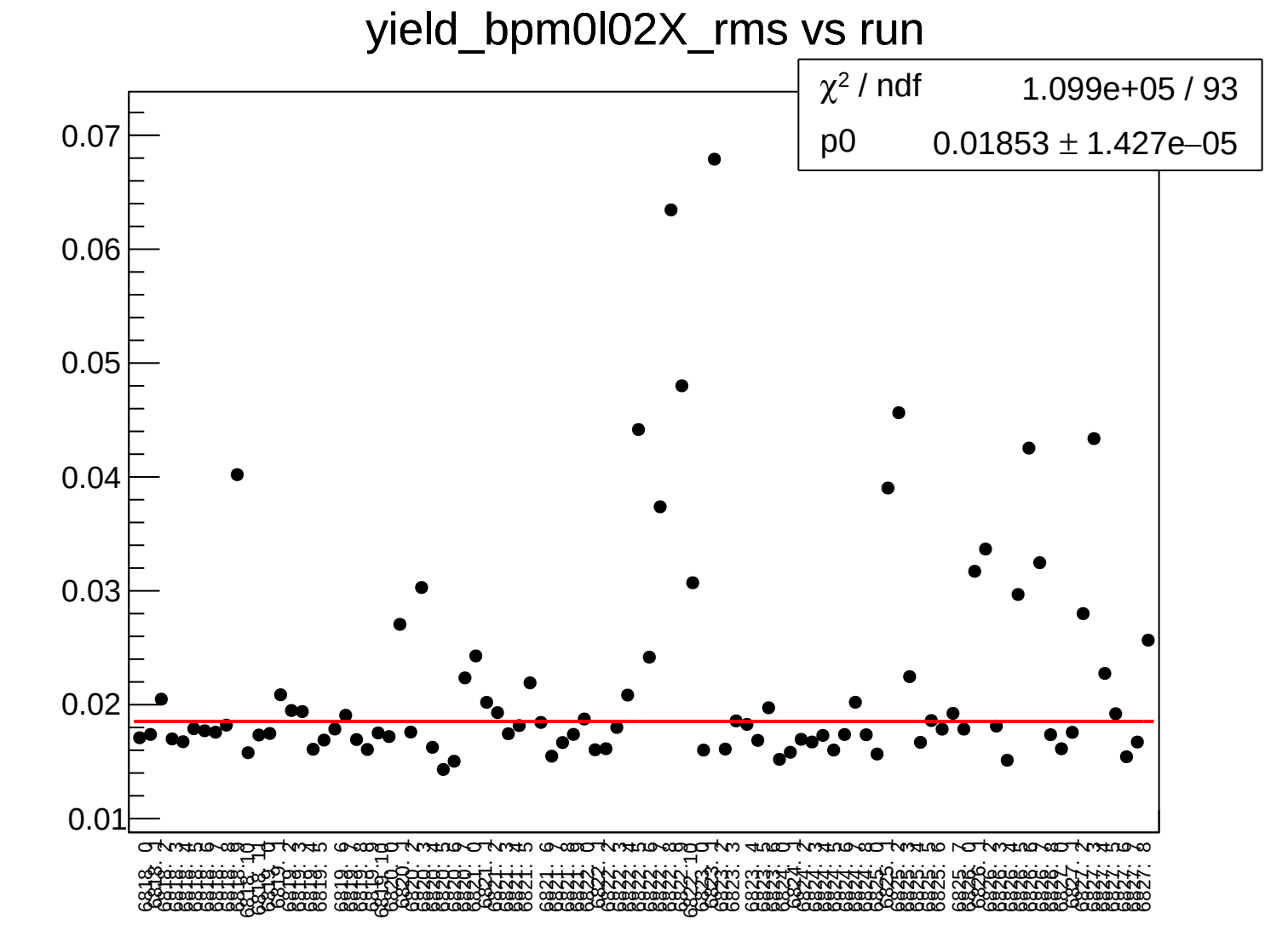

yield_bpm0l01Y_mean vs run
χ² / ndf 7.305e+06 / 93
p0 −7.556 ± 1.405e−05
−7.45
−7.5
−7.55
−7.6
−7.65
−7.7
−7.75
−7.8
pull
Entries 94
Mean 313.3
Std Dev 0
500
0
−500
−1000
−1500

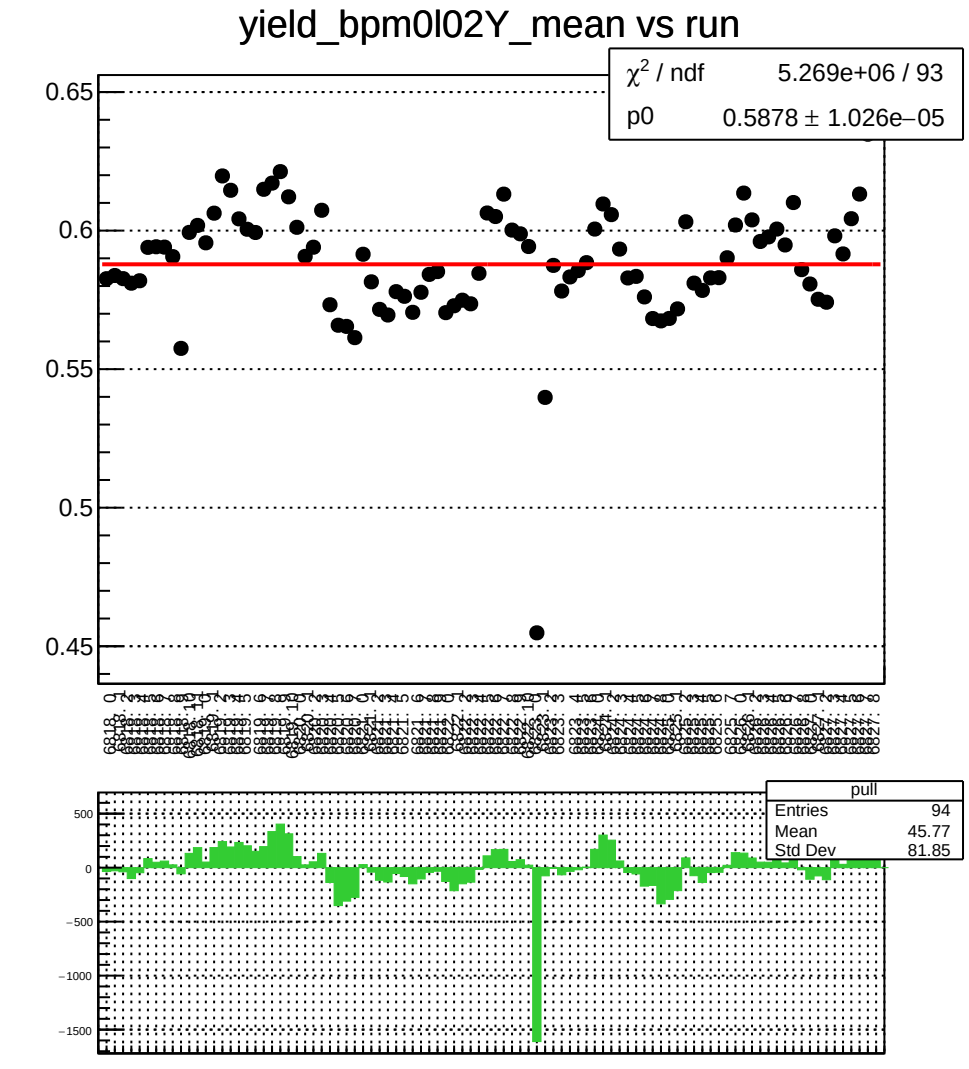

pull1D
Entries 94
Mean −1.197
Std Dev 3.133
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

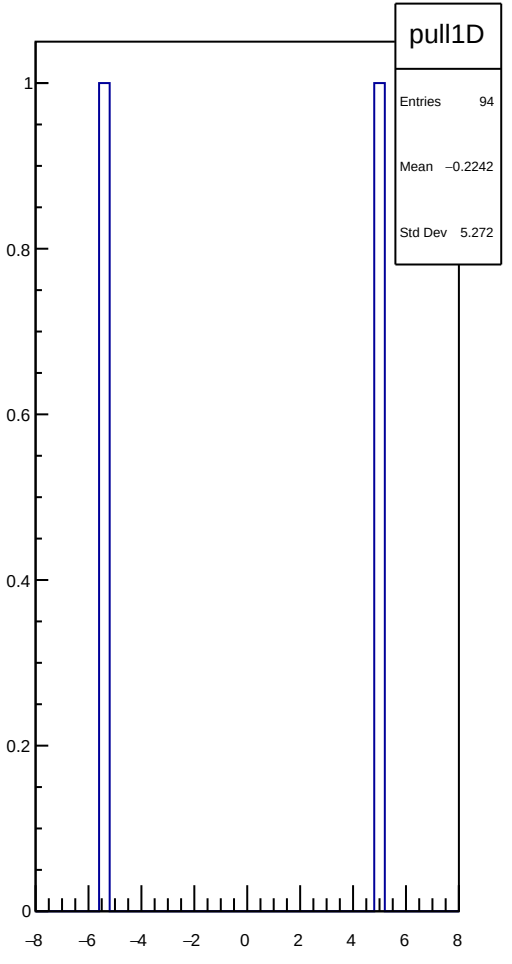

yield_bpm0l01Y_rms vs run
χ² / ndf 4.58e+05 / 93
p0 0.01148 ± 9.932e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

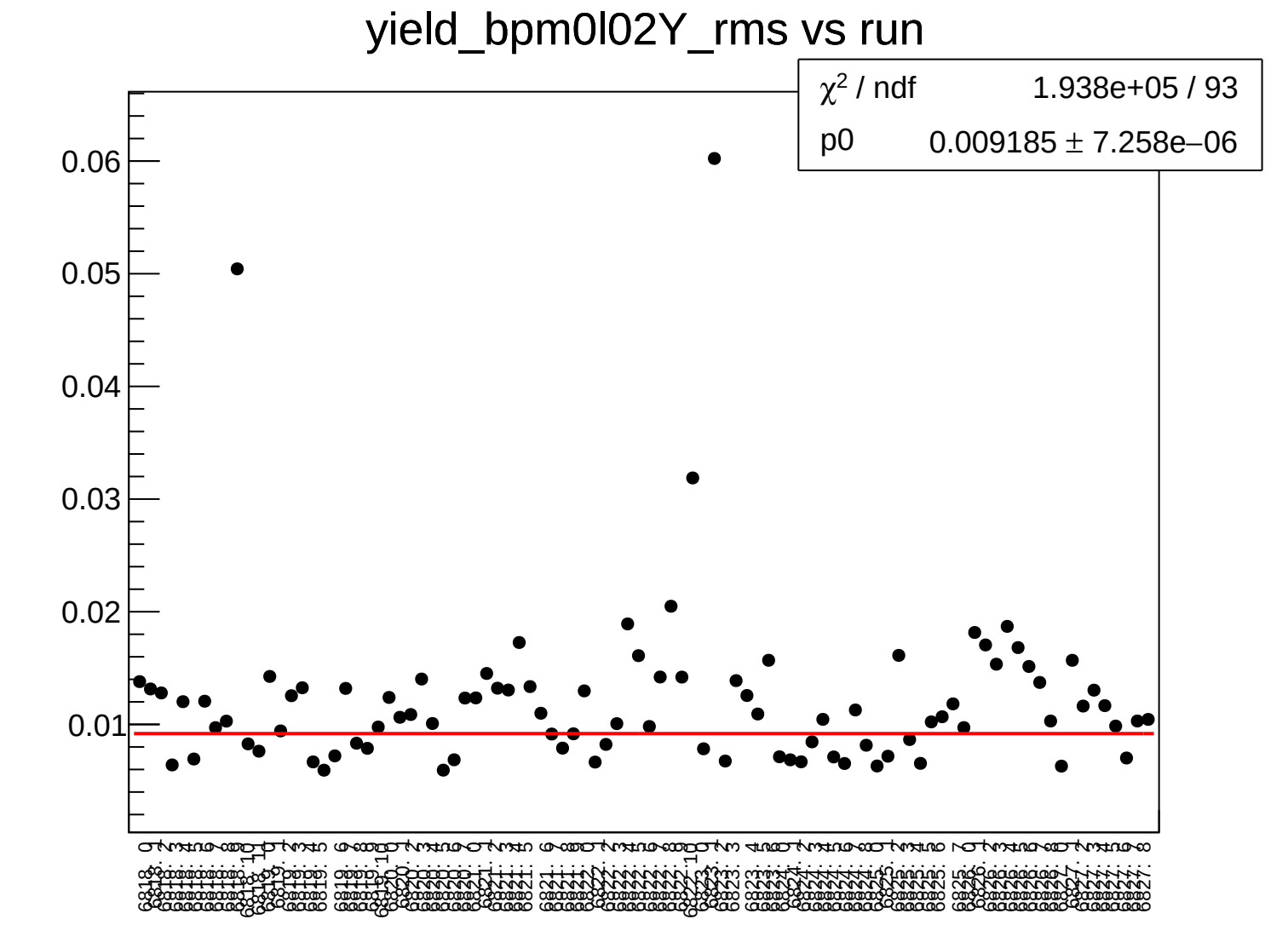

yield_bpm0l02X_mean vs run
χ² / ndf 9.888e+06 / 93
p0 −4.388 ± 2.019e−05
−4.15
−4.2
−4.25
−4.3
−4.35
−4.4
−4.45
−4.5
pull
Entries 94
Mean 402.8
Std Dev 0
800
600
400
200
0
−200
−400

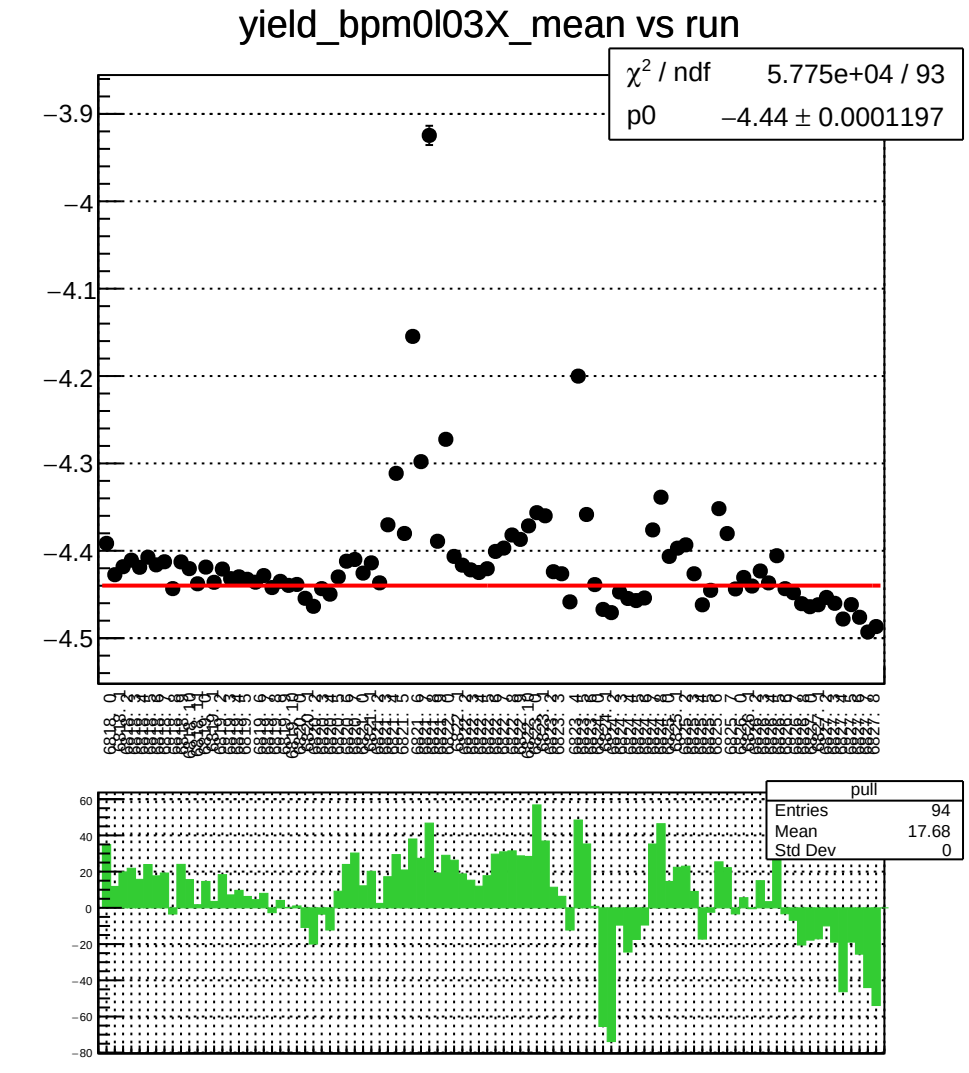

pull1D
Entries 94
Mean −3.257
Std Dev 3.299
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

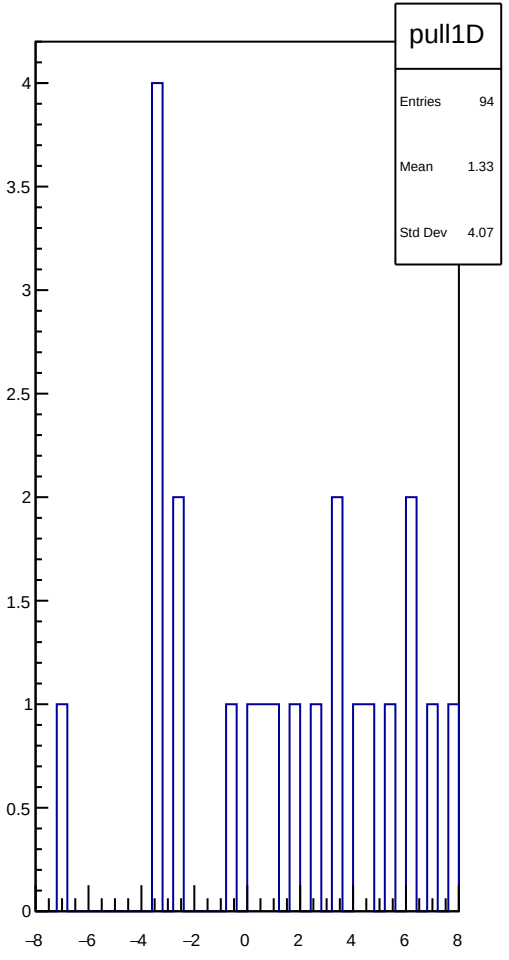

yield_bpm0l02X_rms vs run
χ² / ndf 1.099e+05 / 93
p0 0.01853 ± 1.427e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

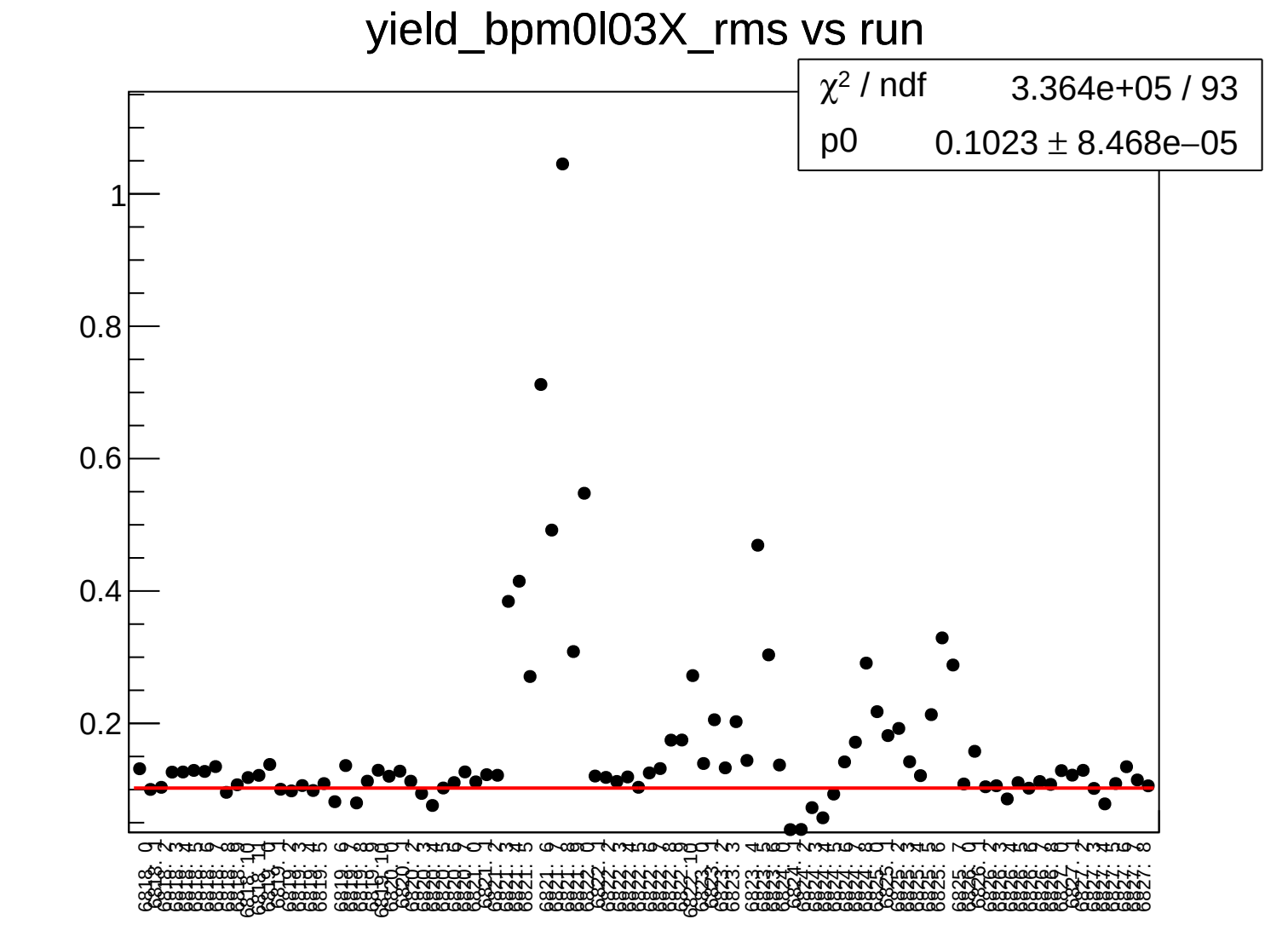

yield_bpm0l02Y_mean vs run
χ² / ndf 5.269e+06 / 93
p0 0.5878 ± 1.026e−05
0.65
0.6
0.55
0.5
0.45
pull
Entries 94
Mean 45.77
Std Dev 81.85
500
0
−500
−1000
−1500

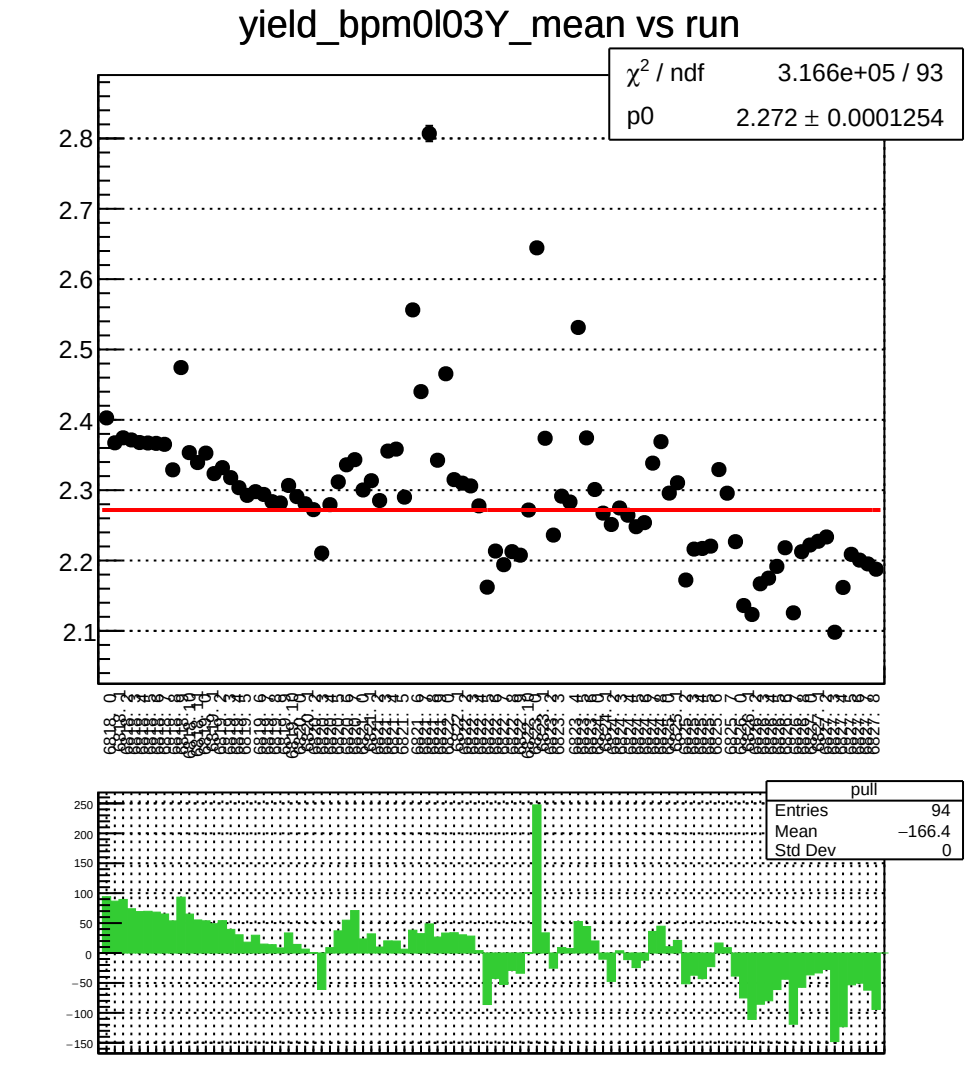

pull1D
Entries 94
Mean −0.2242
Std Dev 5.272
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

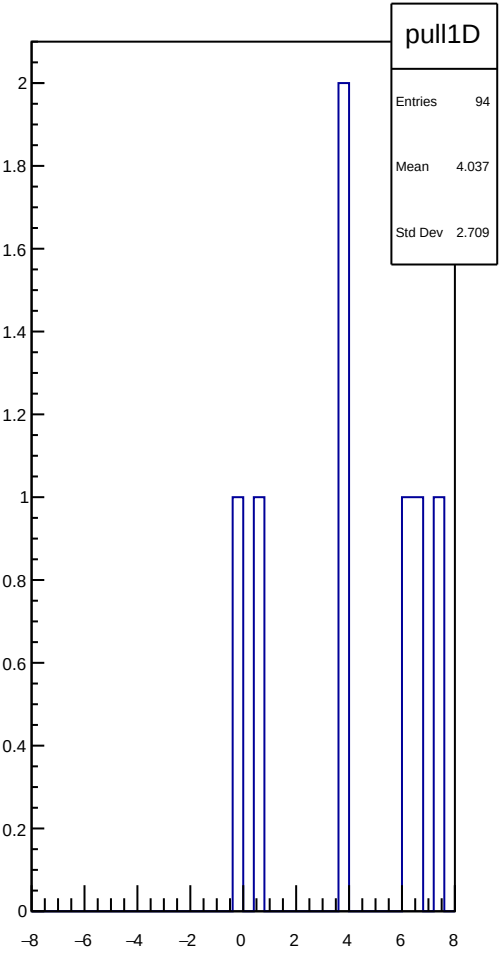

yield_bpm0l02Y_rms vs run
χ² / ndf 1.938e+05 / 93
p0 0.009185 ± 7.258e−06
0.06
0.05
0.04
0.03
0.02
0.01

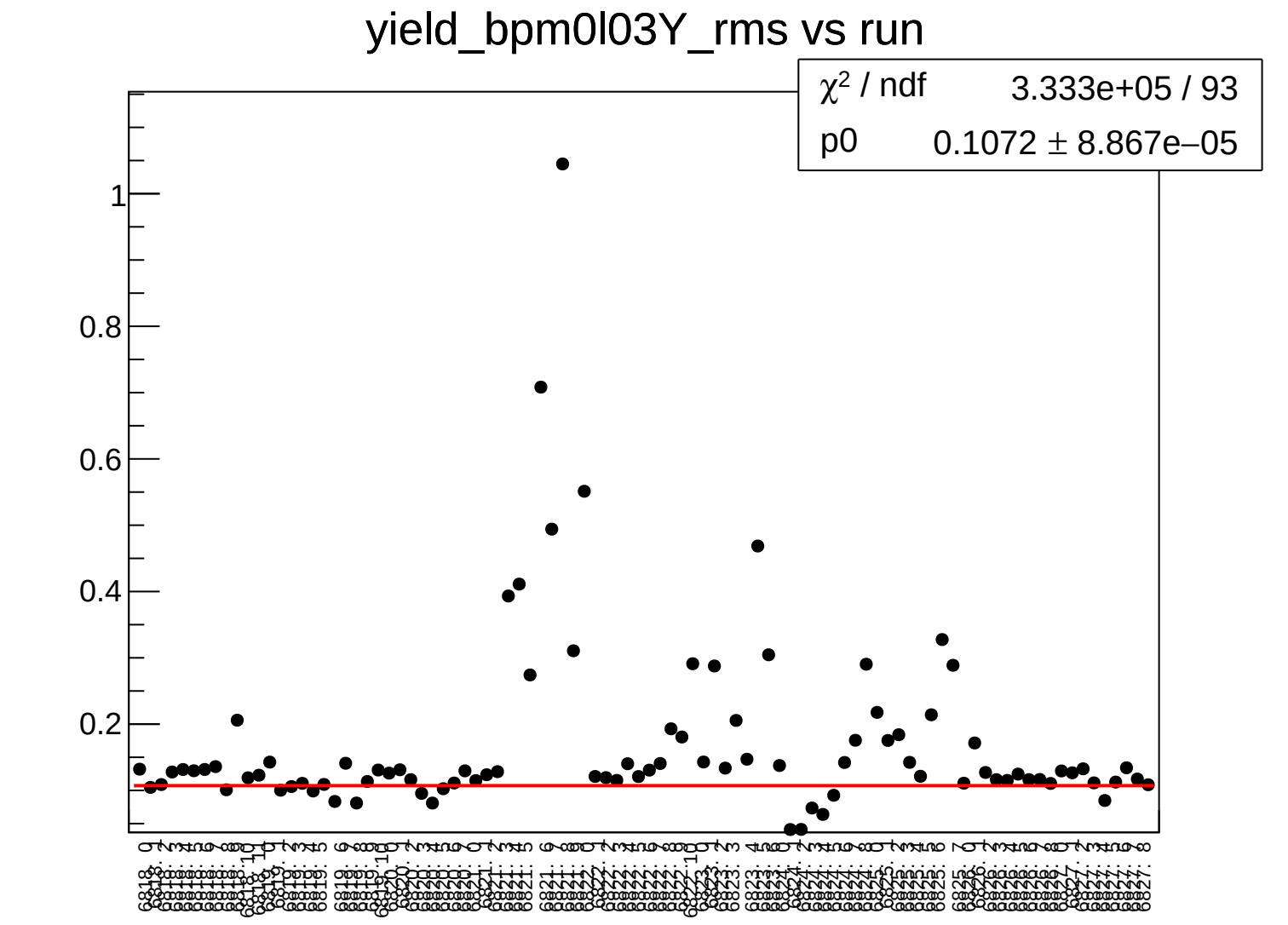

yield_bpm0l03X_mean vs run
χ² / ndf 5.775e+04 / 93
p0 −4.44 ± 0.0001197
−3.9
−4
−4.1
−4.2
−4.3
−4.4
−4.5
pull
Entries 94
Mean 17.68
Std Dev 0
60
40
20
0
−20
−40
−60
−80

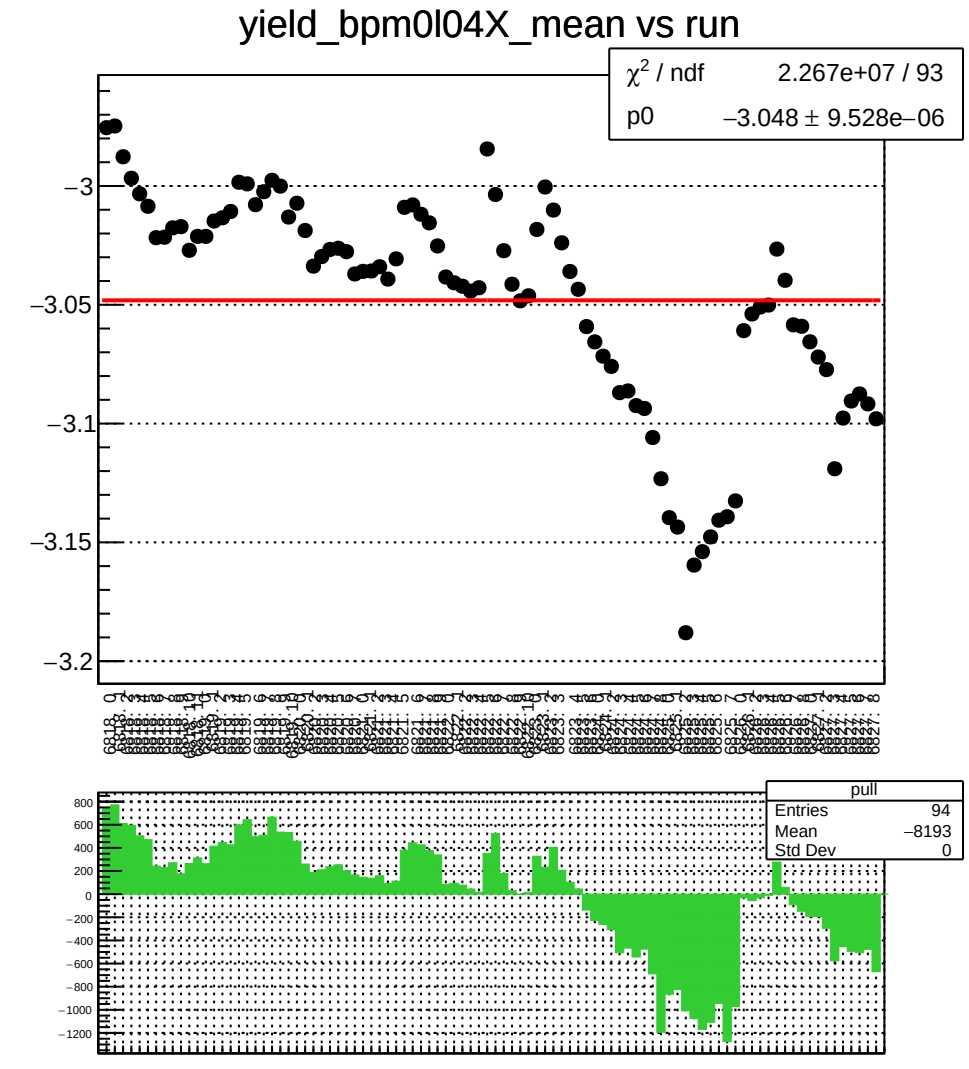

pull1D
Entries 94
Mean 1.33
Std Dev 4.07
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

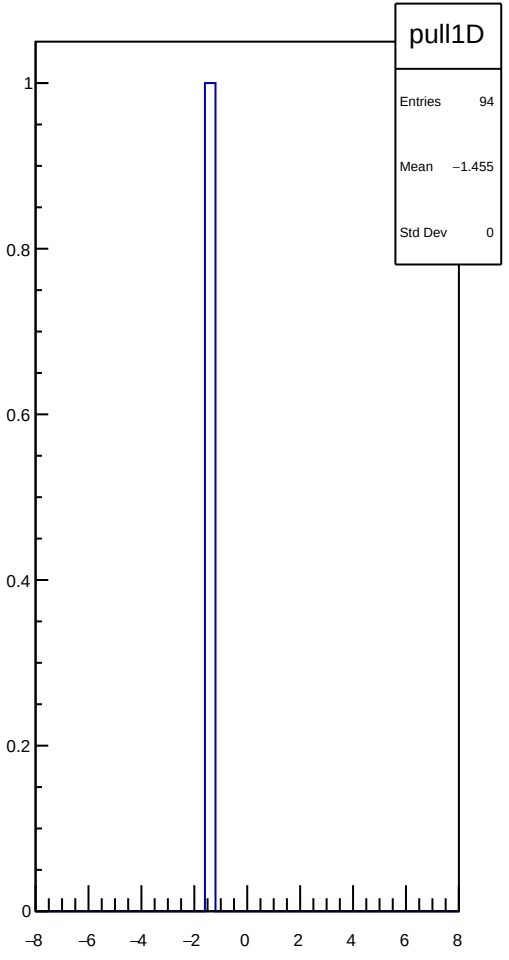

yield_bpm0l03X_rms vs run
χ² / ndf 3.364e+05 / 93
p0 0.1023 ± 8.468e−05
1
0.8
0.6
0.4
0.2

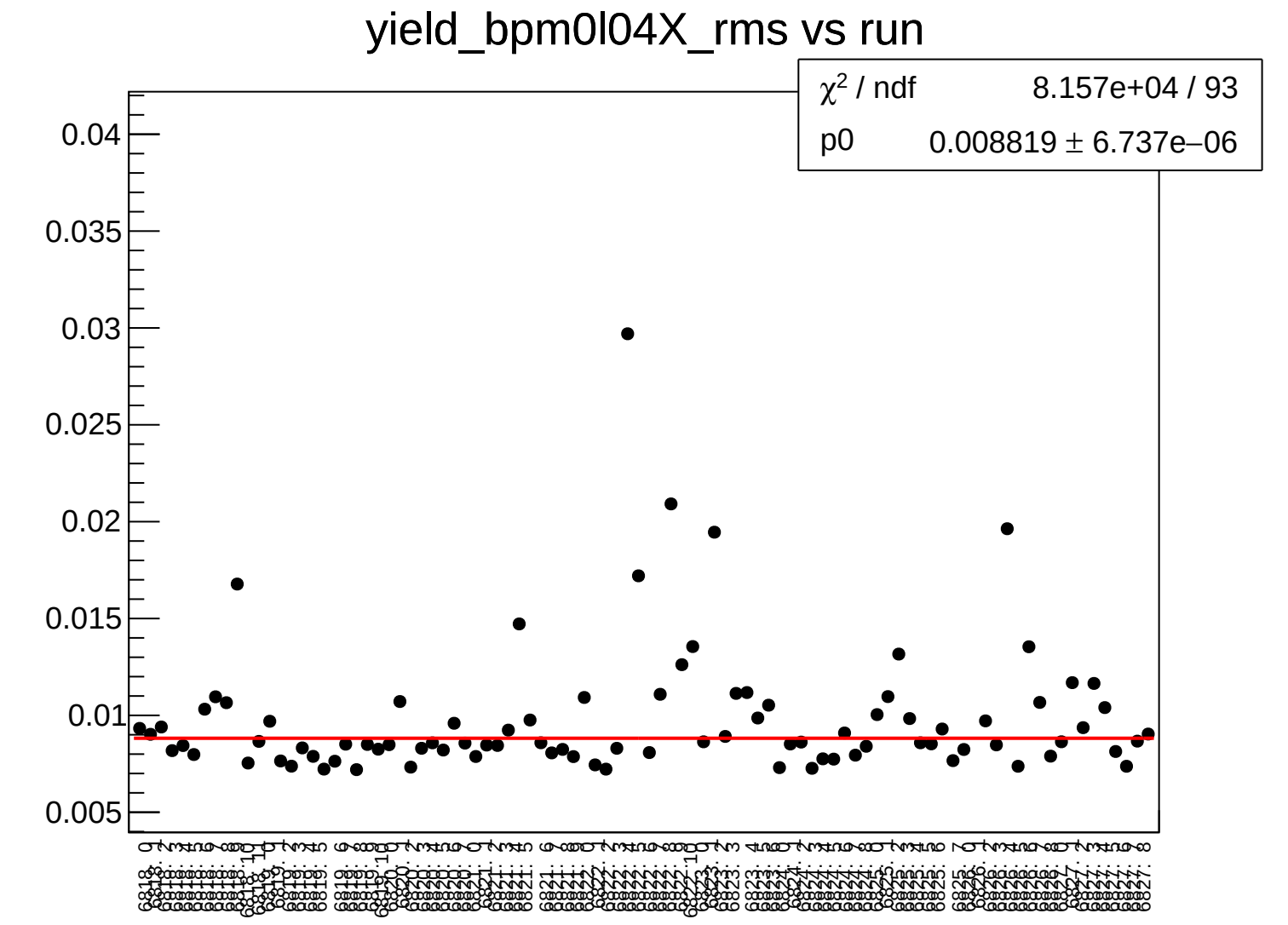

yield_bpm0l03Y_mean vs run
χ² / ndf 3.166e+05 / 93
p0 2.272 ± 0.0001254
pull
Entries 94
Mean −166.4
Std Dev 0

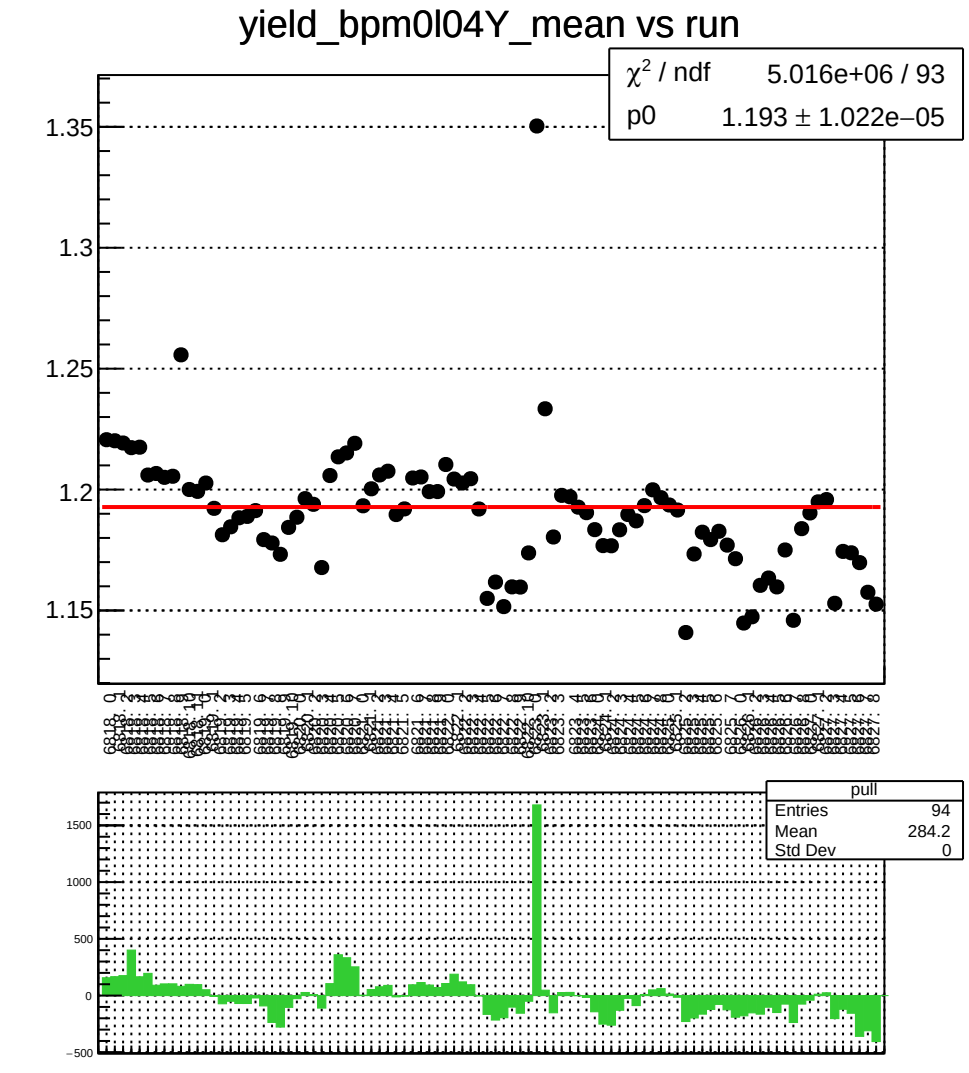

pull1D
Entries 94
Mean 4.037
Std Dev 2.709

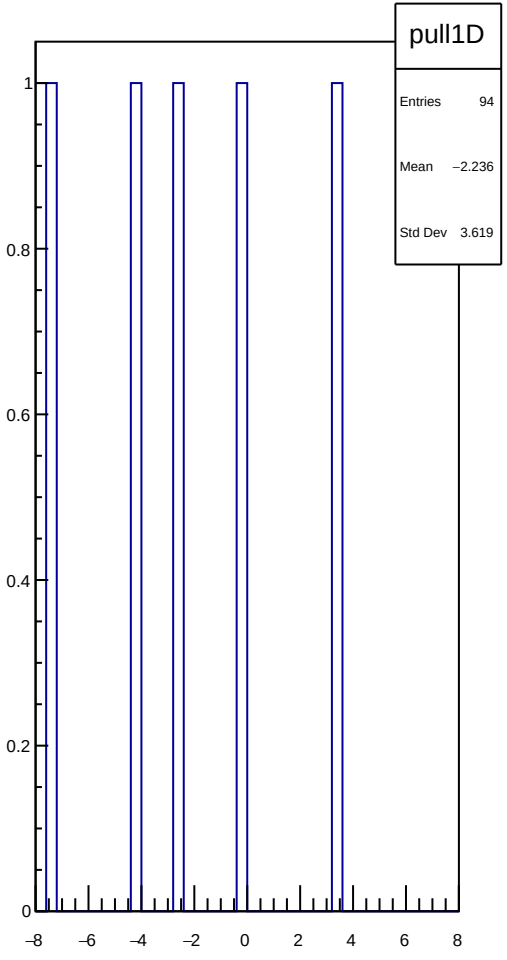

yield_bpm0l03Y_rms vs run
χ² / ndf 3.333e+05 / 93
p0 0.1072 ± 8.867e−05
1
0.8
0.6
0.4
0.2

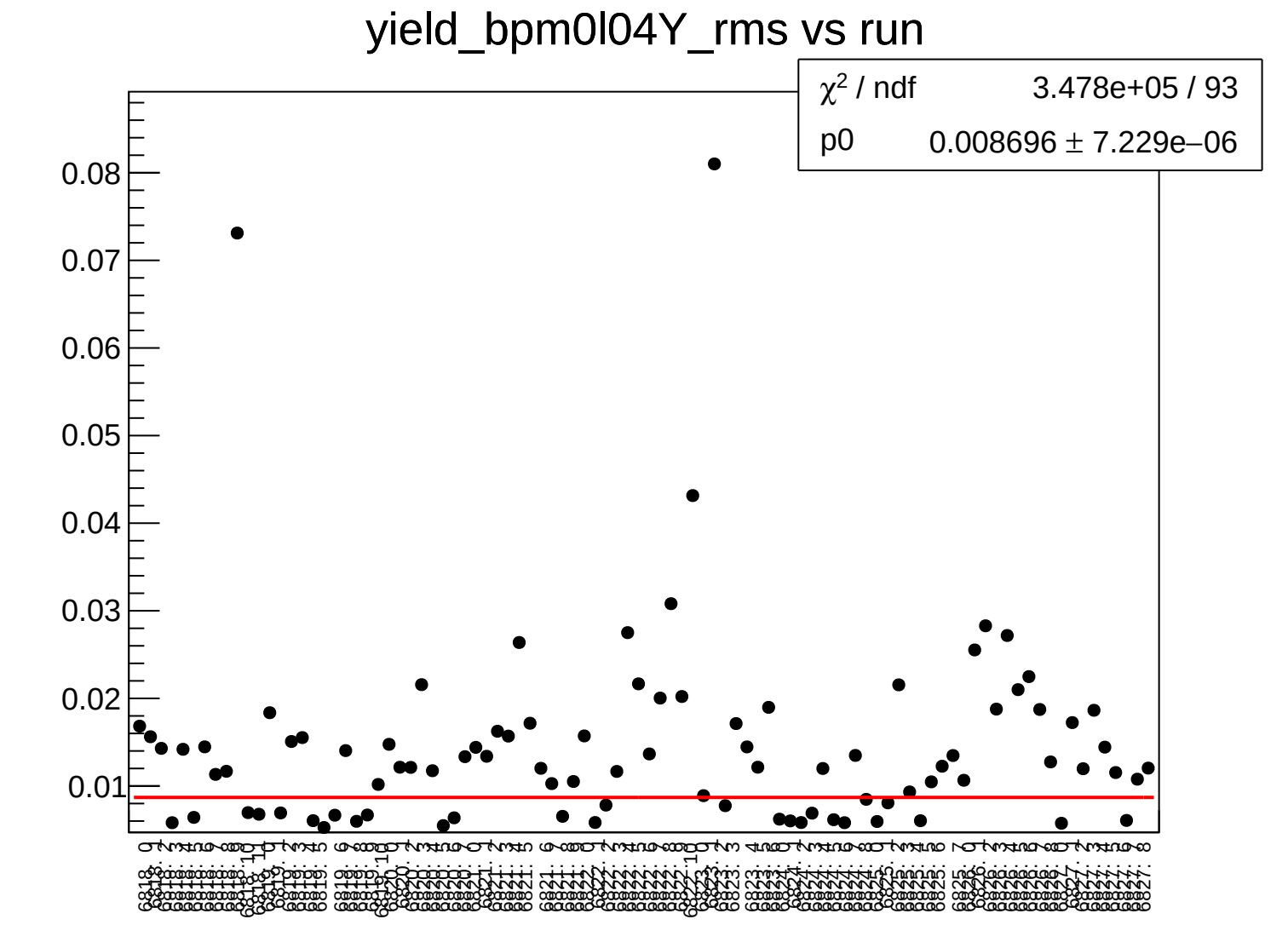

yield_bpm0l04X_mean vs run
χ² / ndf 2.267e+07 / 93
p0 −3.048 ± 9.528e−06
−3
−3.05
−3.1
−3.15
−3.2
pull
Entries 94
Mean −8193
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

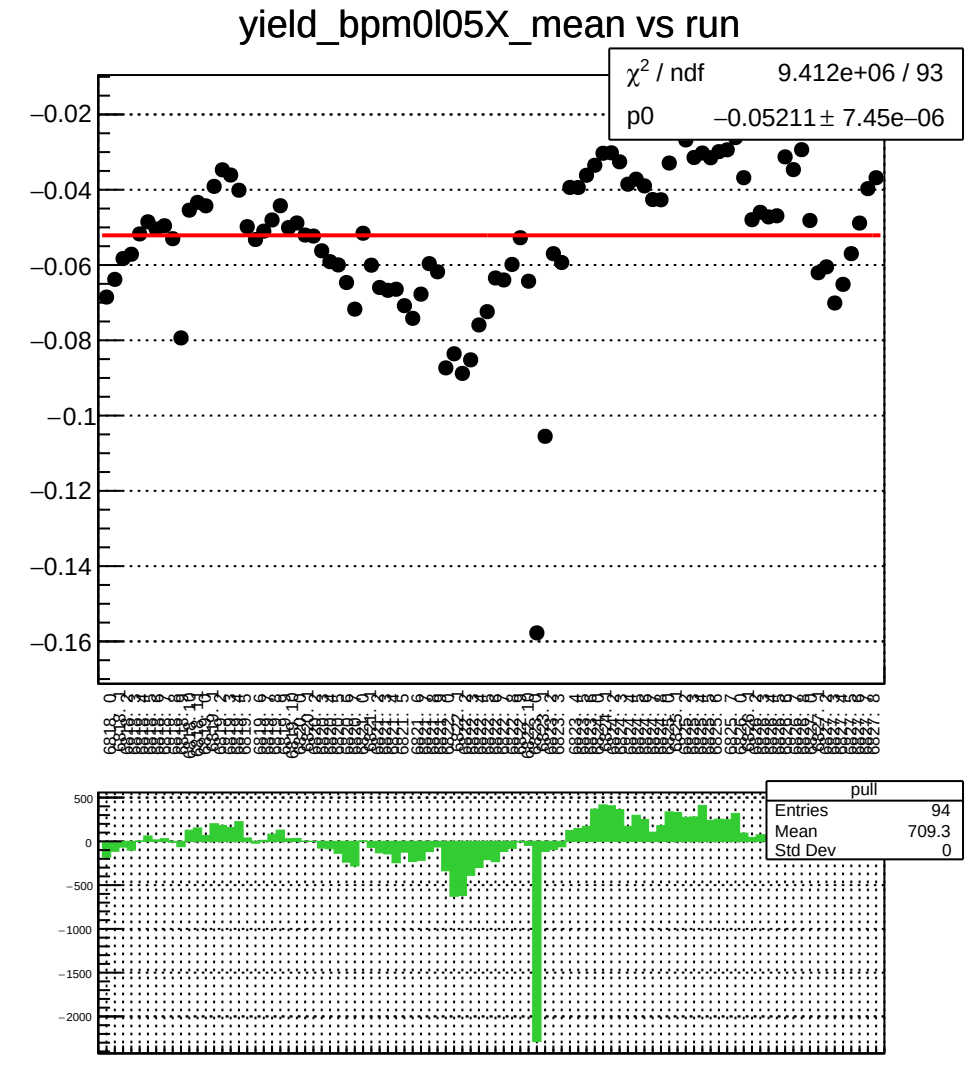

pull1D
Entries 94
Mean −1.455
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

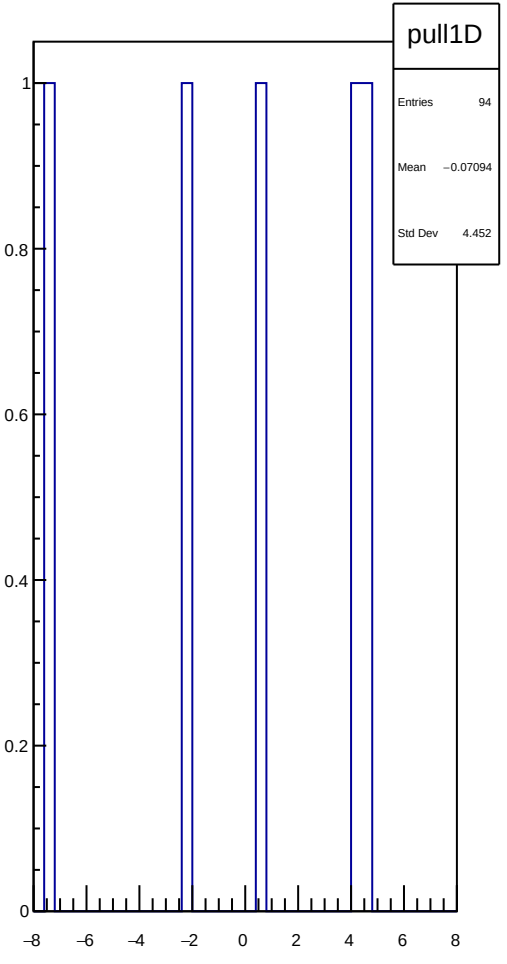

yield_bpm0l04X_rms vs run
χ² / ndf 8.157e+04 / 93
p0 0.008819 ± 6.737e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

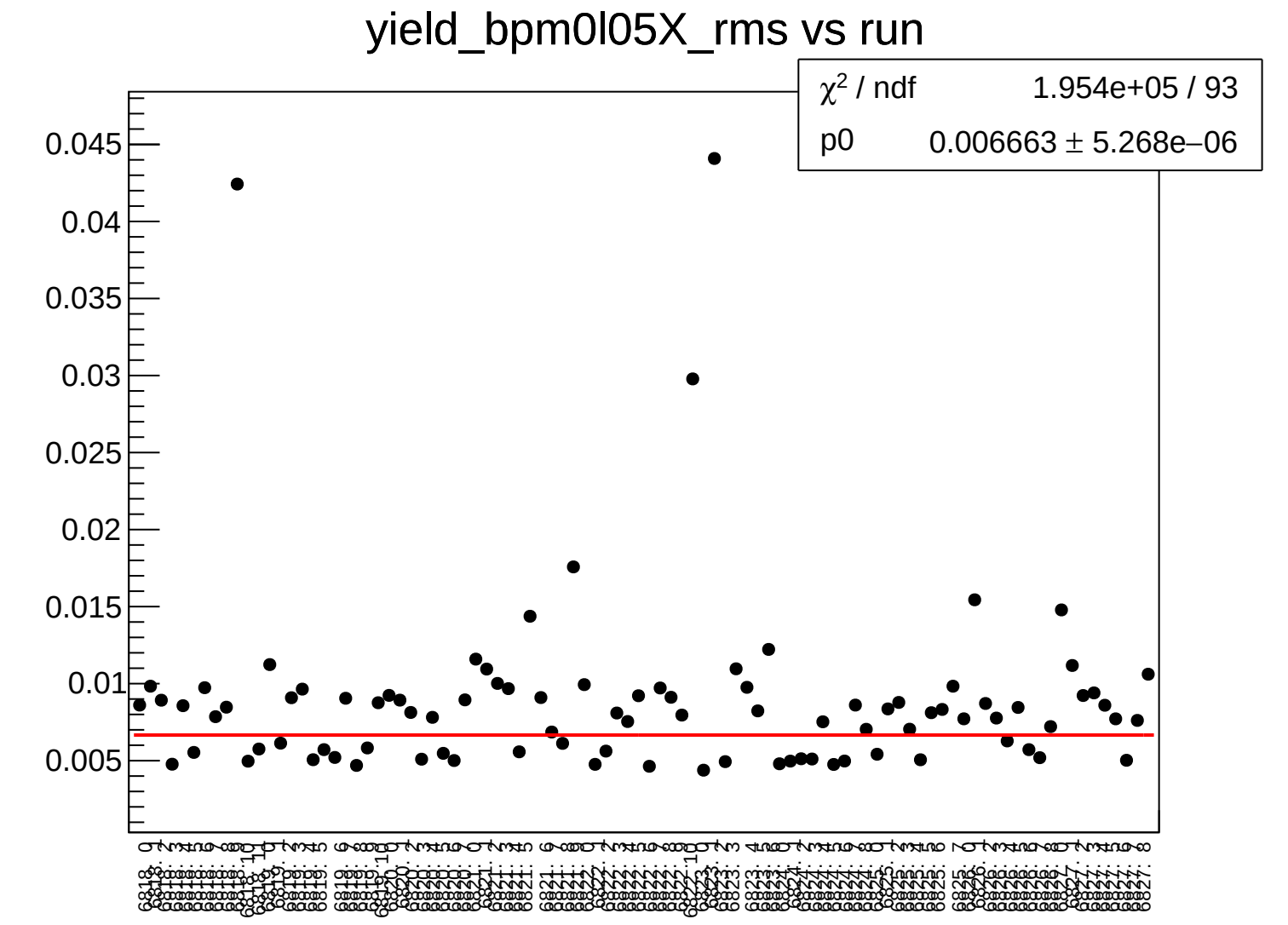

yield_bpm0l04Y_mean vs run
χ² / ndf 5.016e+06 / 93
p0 1.193 ± 1.022e−05
1.35
1.3
1.25
1.2
1.15
pull
Entries 94
Mean 284.2
Std Dev 0
1500
1000
500
0
−500

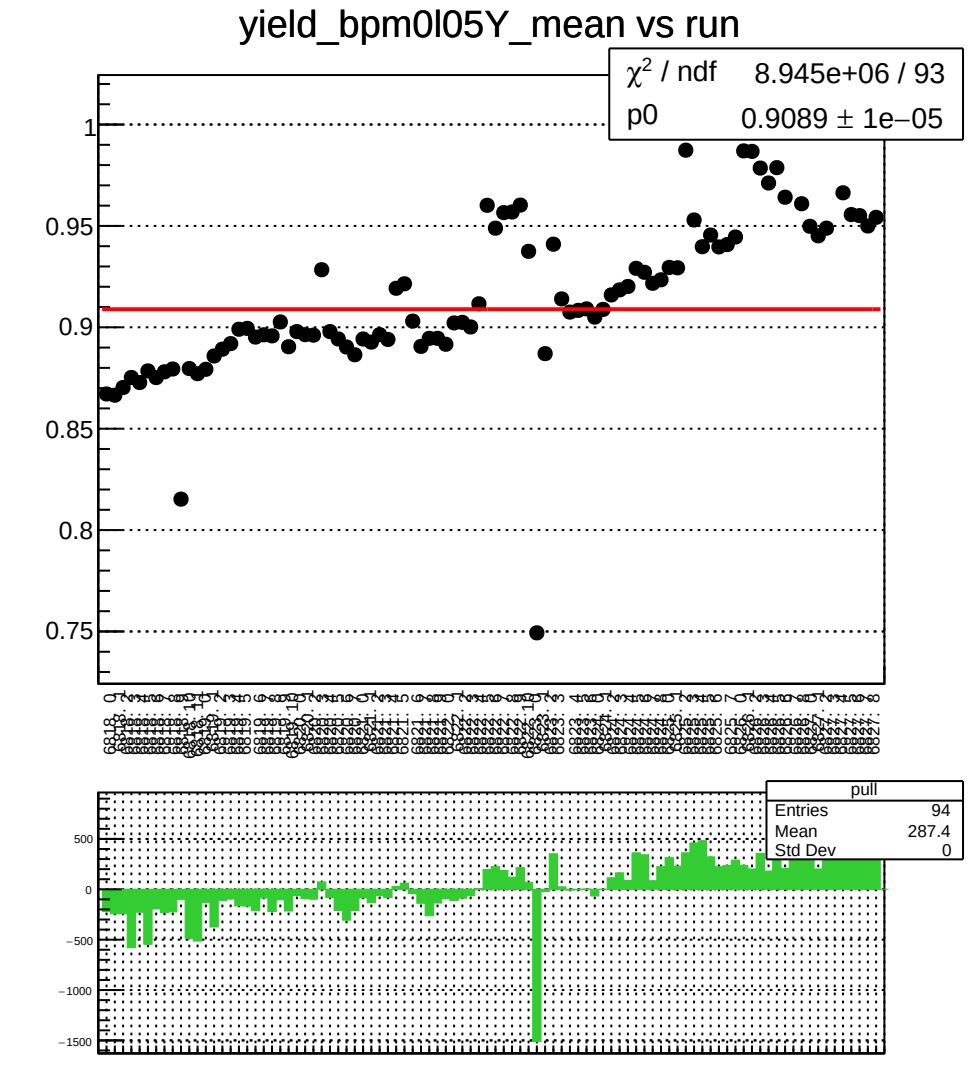

pull1D
Entries 94
Mean −2.236
Std Dev 3.619
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

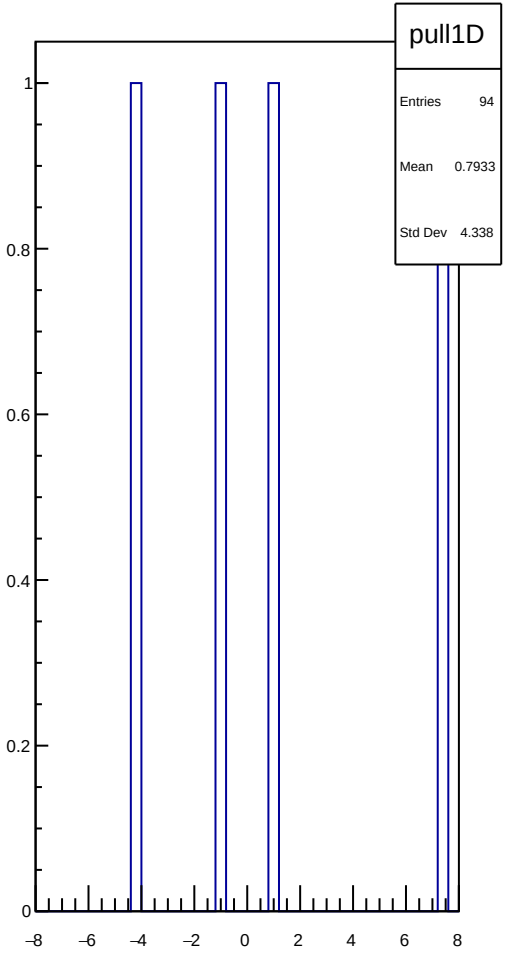

yield_bpm0l04Y_rms vs run
χ² / ndf 3.478e+05 / 93
p0 0.008696 ± 7.229e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

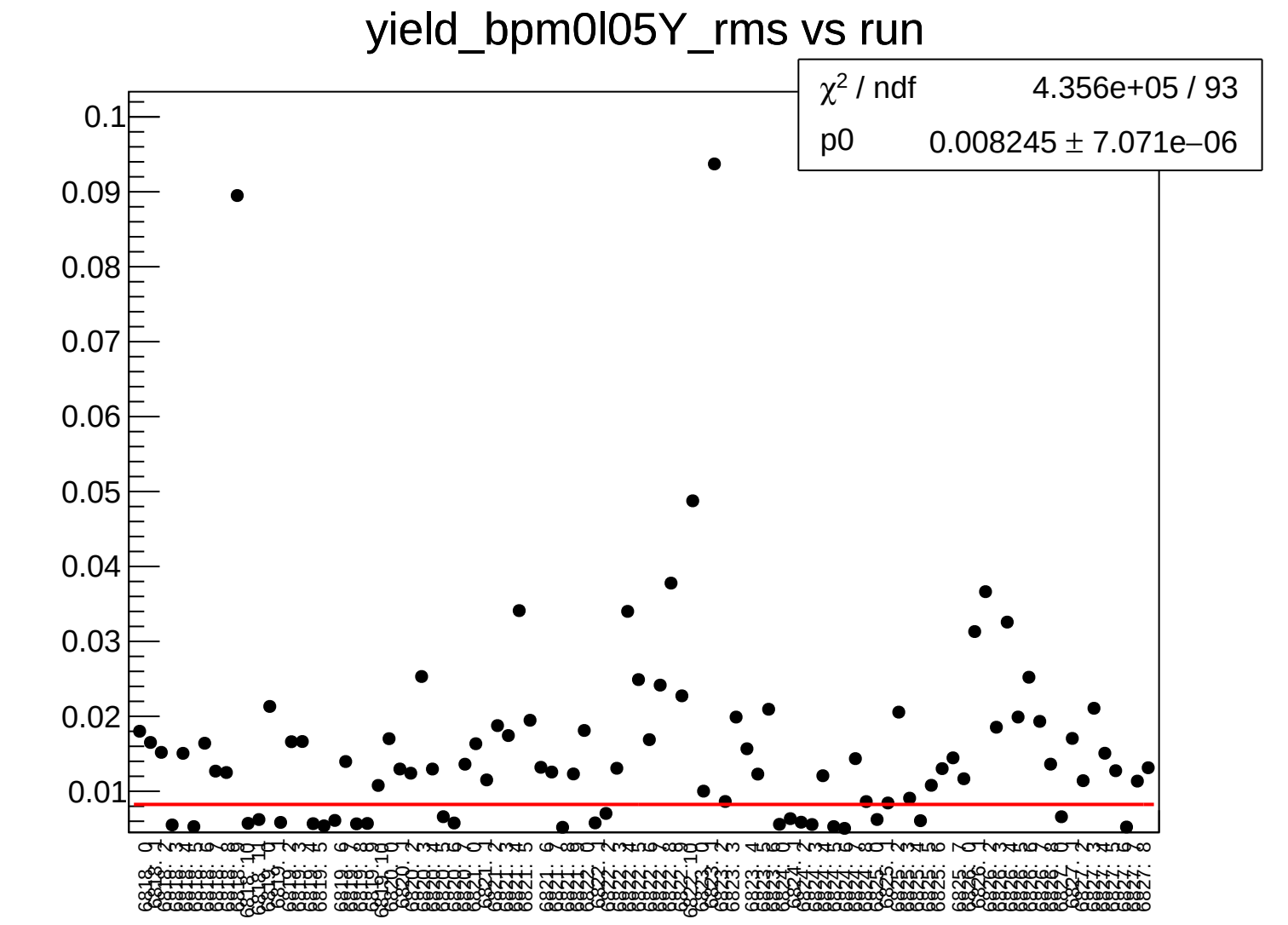

yield_bpm0l05X_mean vs run
χ² / ndf 9.412e+06 / 93
p0 −0.05211 ± 7.45e−06
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 94
Mean 709.3
Std Dev 0
500
0
−500
−1000
−1500
−2000

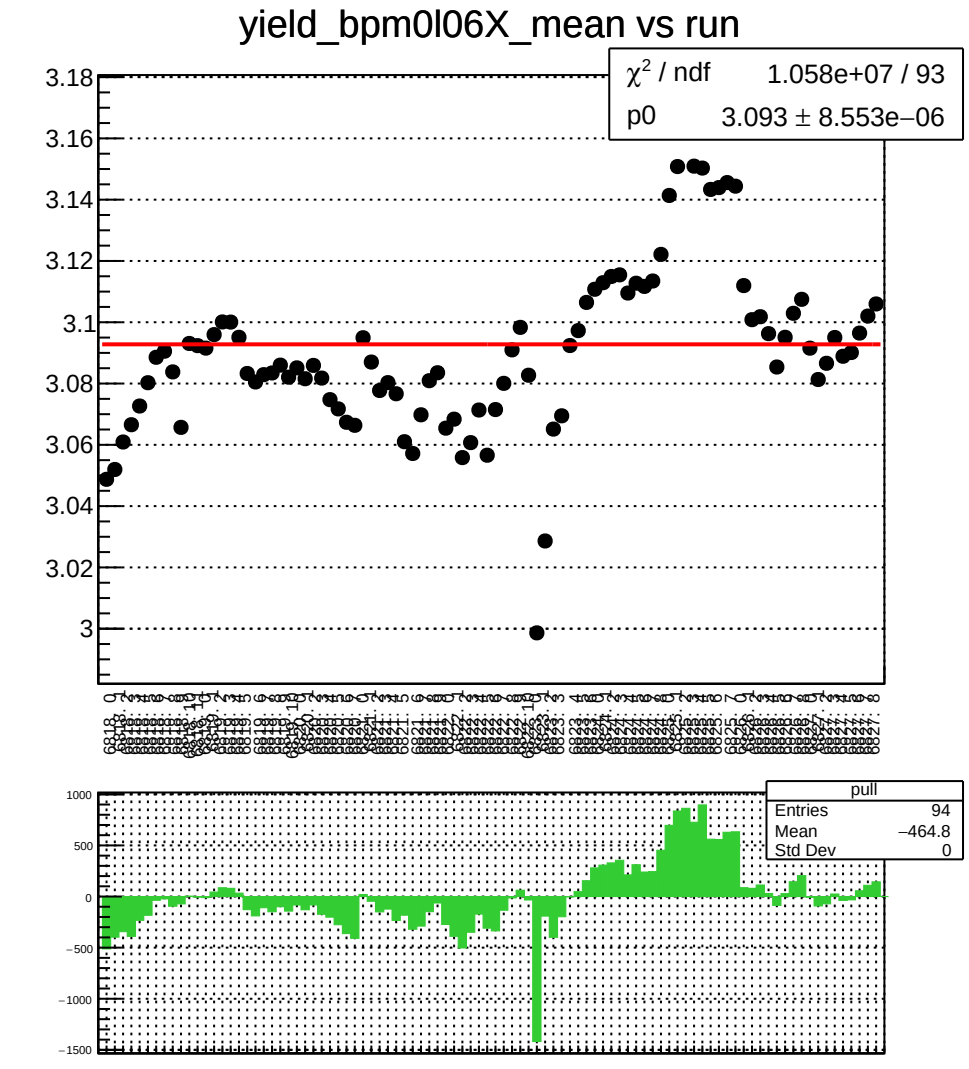

pull1D
Entries 94
Mean −0.07094
Std Dev 4.452
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

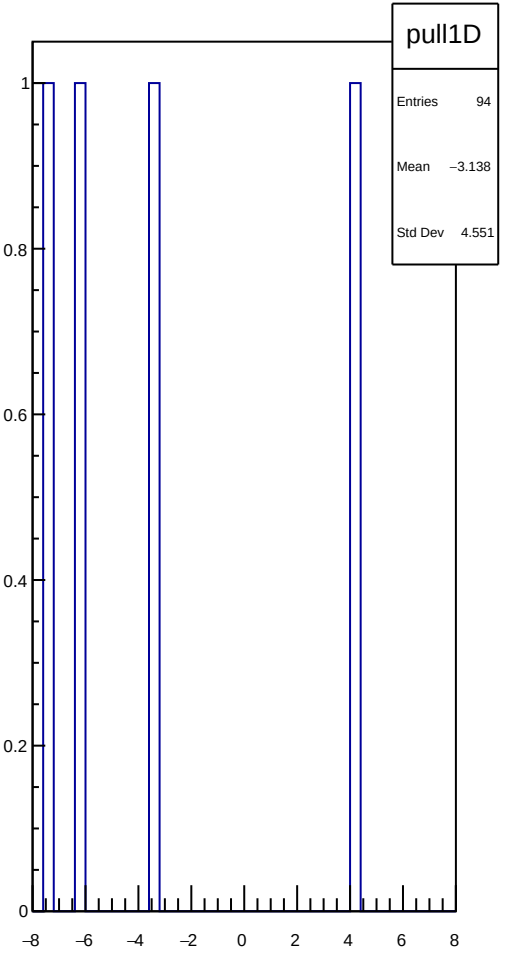

yield_bpm0l05X_rms vs run
χ² / ndf 1.954e+05 / 93
p0 0.006663 ± 5.268e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

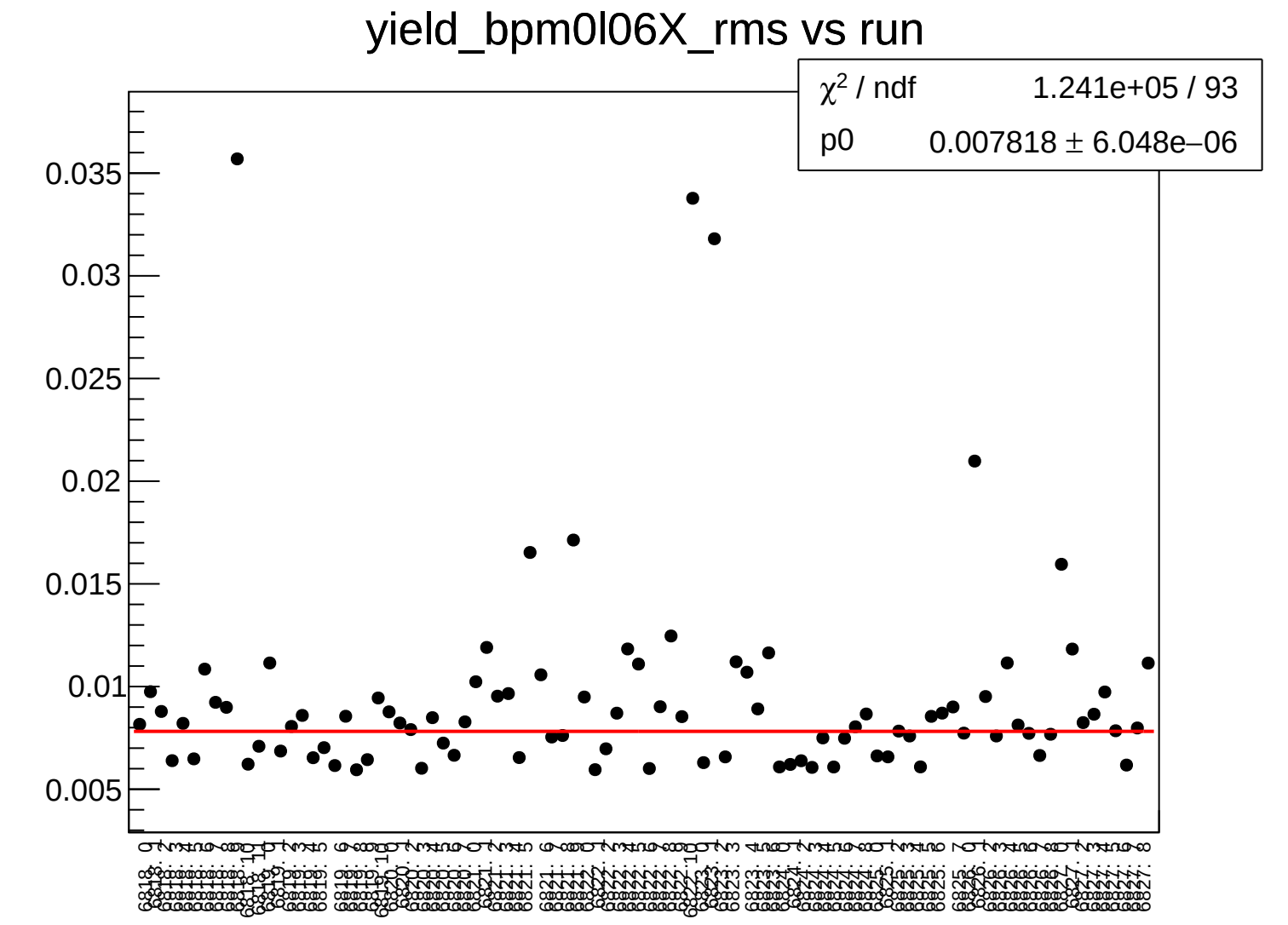

yield_bpm0l05Y_mean vs run
χ² / ndf 8.945e+06 / 93
p0 0.9089 ± 1e−05
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 94
Mean 287.4
Std Dev 0
500
0
−500
−1000
−1500

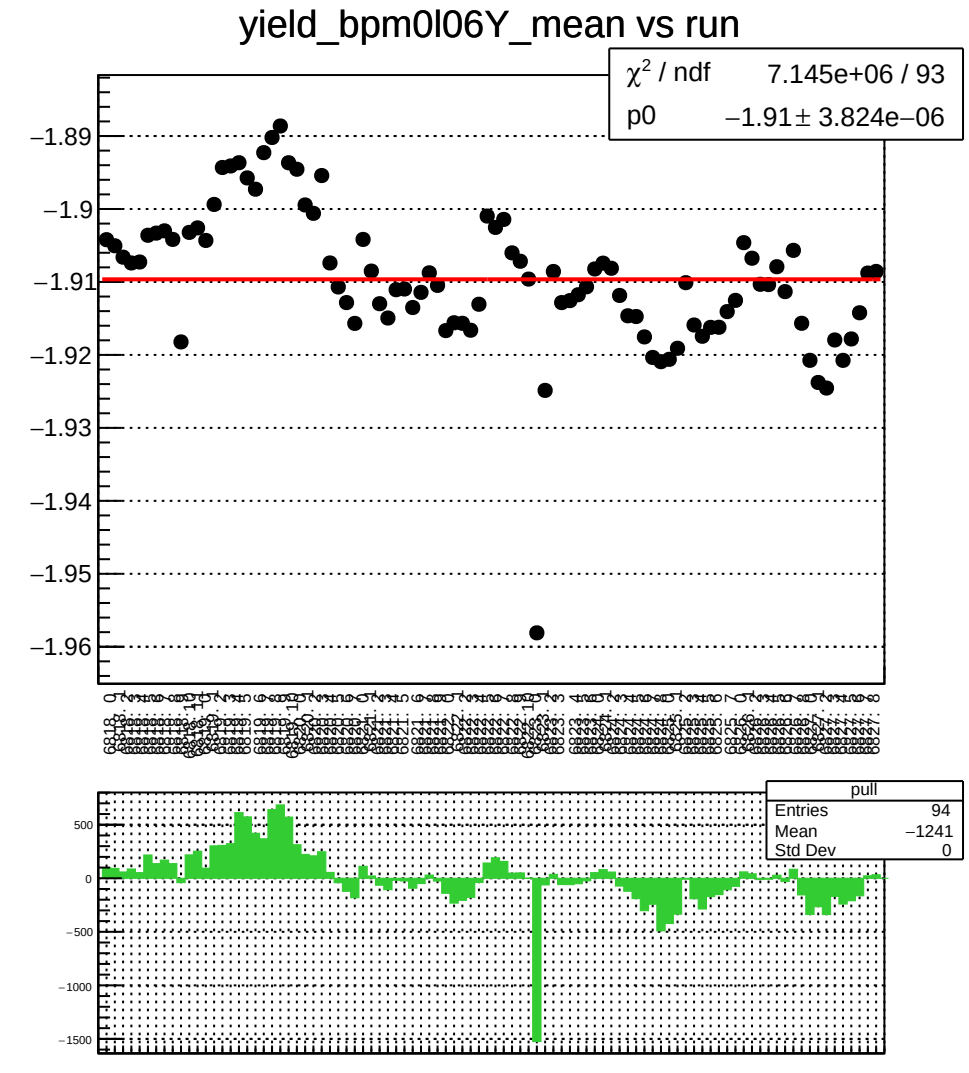

pull1D
Entries 94
Mean 0.7933
Std Dev 4.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

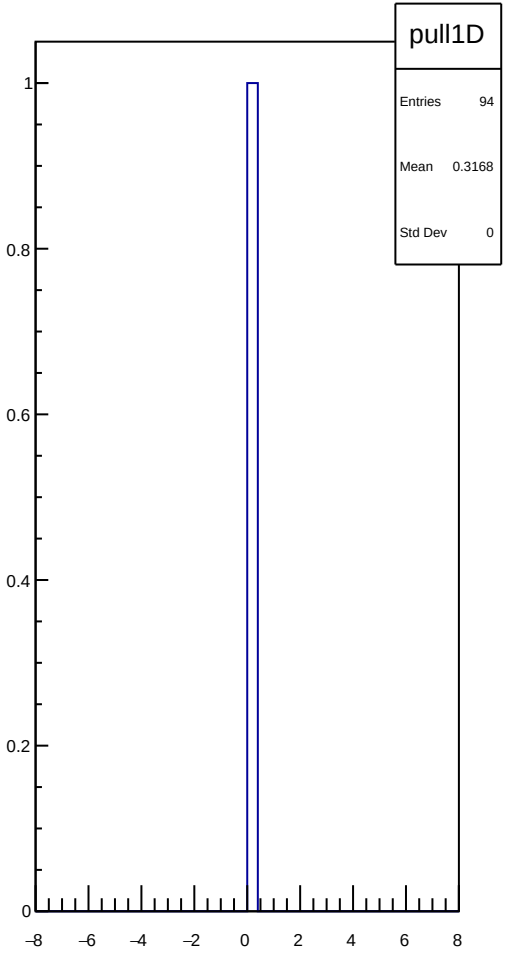

yield_bpm0l05Y_rms vs run
χ² / ndf 4.356e+05 / 93
p0 0.008245 ± 7.071e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

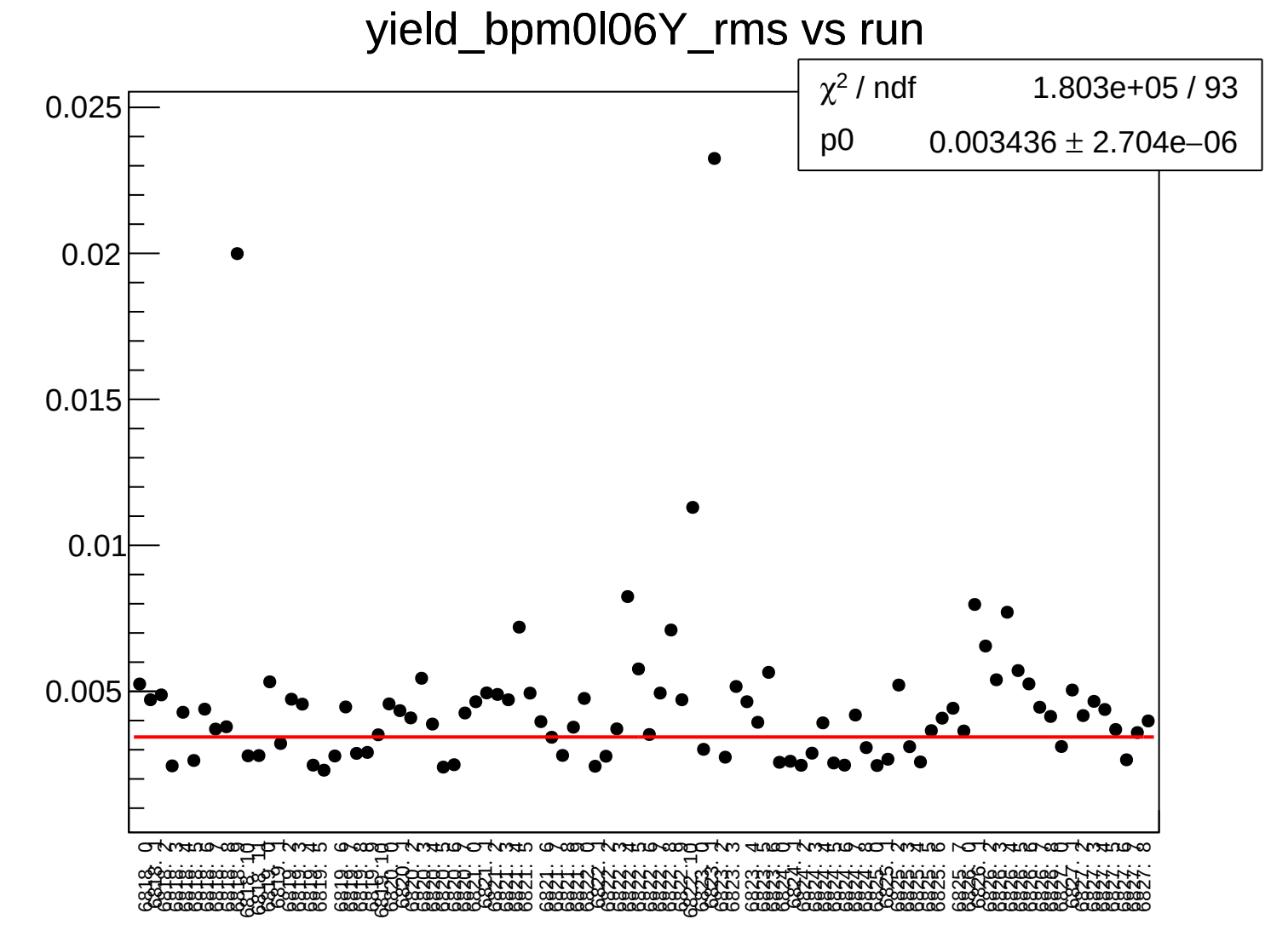

yield_bpm0l06X_mean vs run
χ² / ndf 1.058e+07 / 93
p0 3.093 ± 8.553e−06
3.18
3.16
3.14
3.12
3.1
3.08
3.06
3.04
3.02
3
pull
Entries 94
Mean −464.8
Std Dev 0
1000
500
0
−500
−1000
−1500

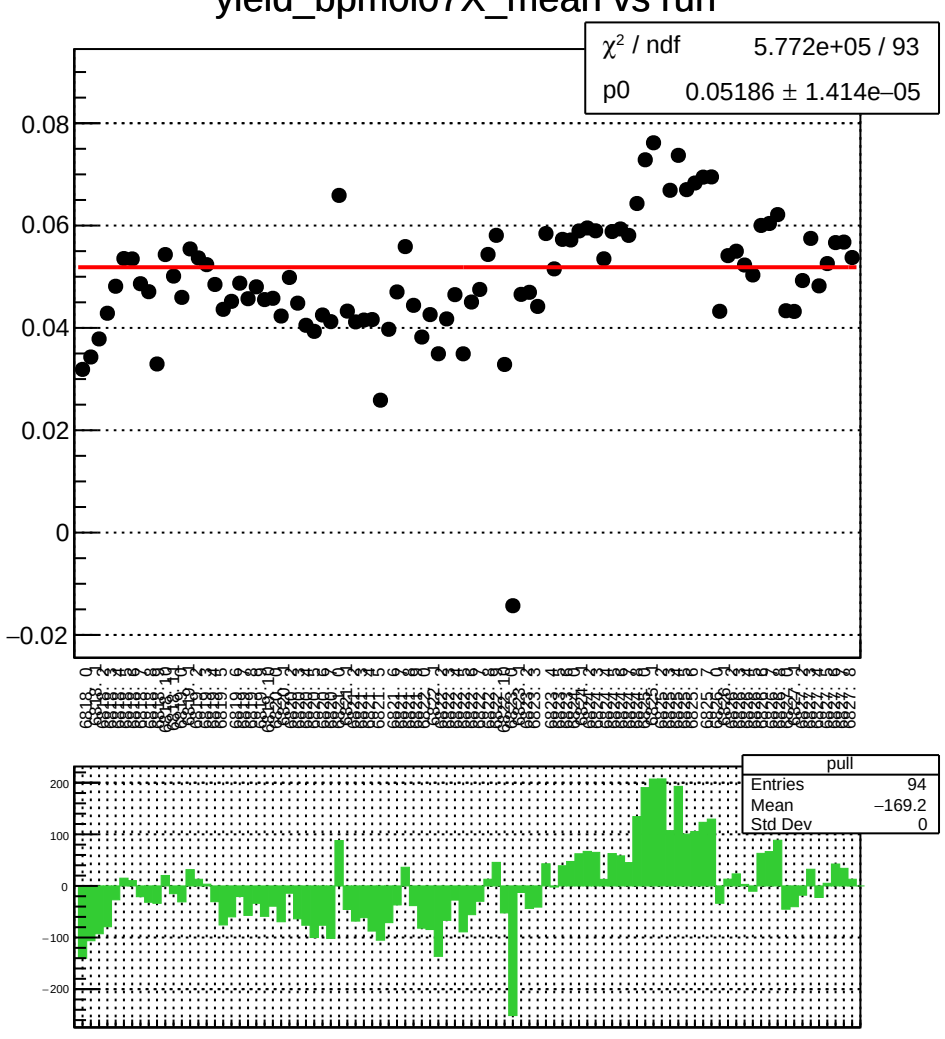

pull1D
Entries 94
Mean −3.138
Std Dev 4.551
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

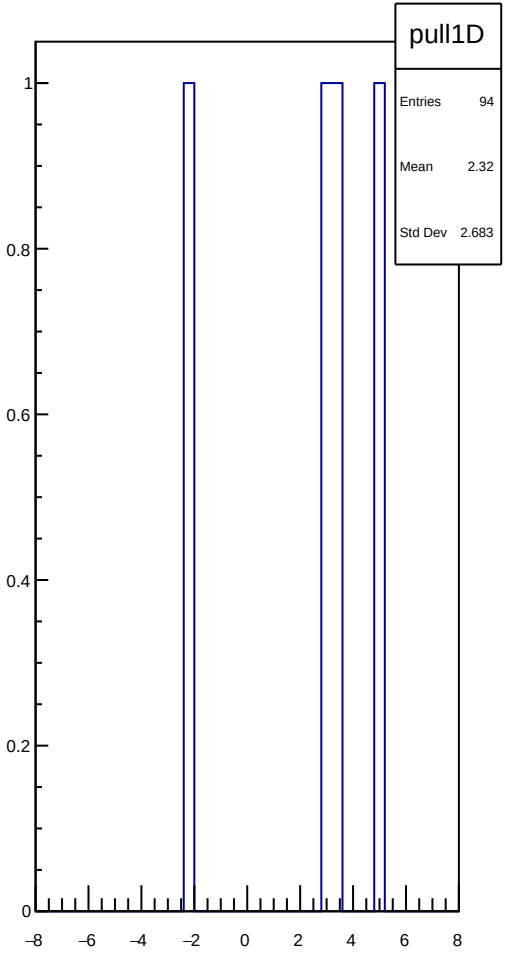

yield_bpm0l06X_rms vs run
χ² / ndf 1.241e+05 / 93
p0 0.007818 ± 6.048e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

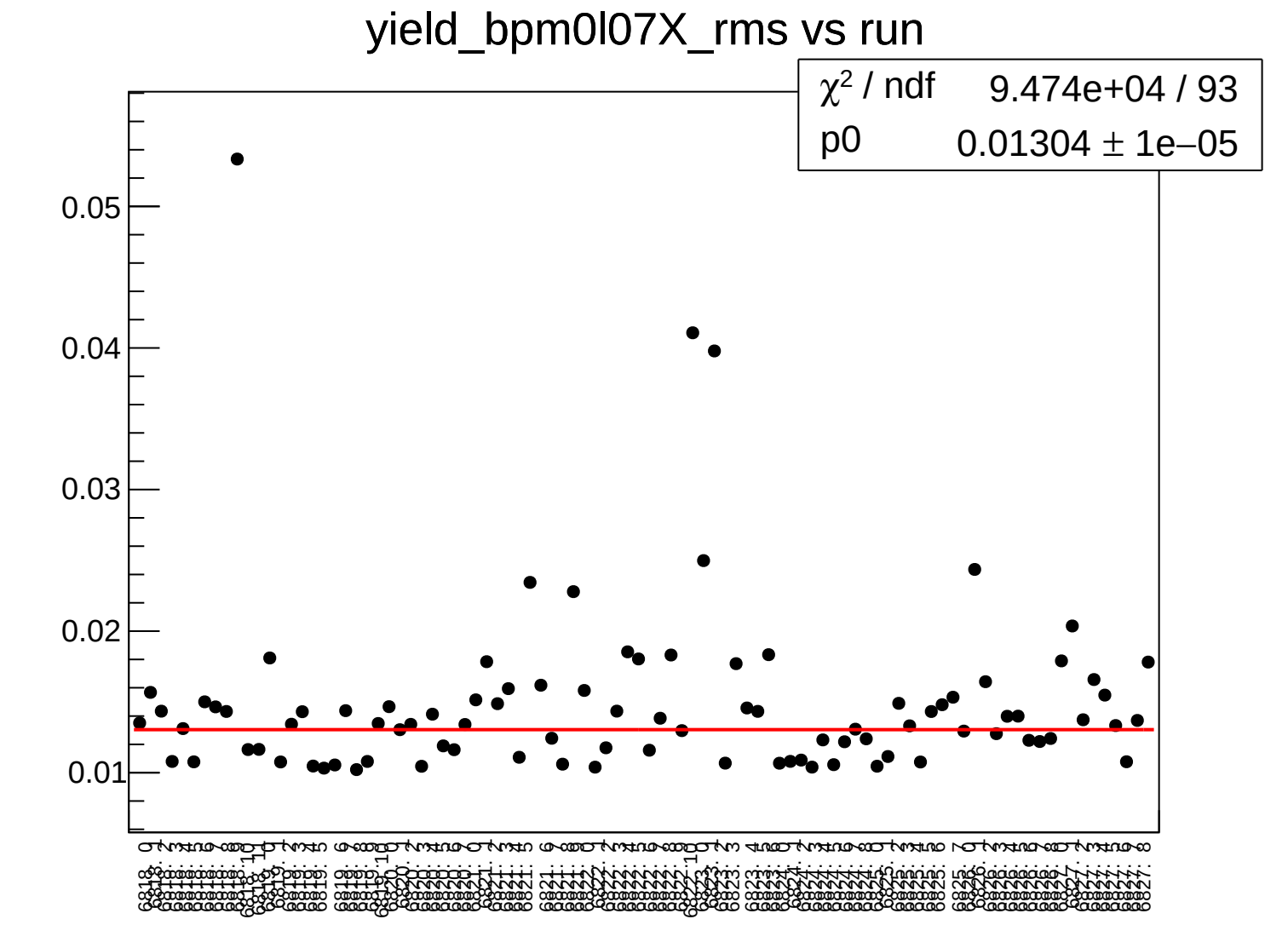

yield_bpm0l06Y_mean vs run
χ² / ndf 7.145e+06 / 93
p0 −1.91 ± 3.824e−06
−1.89
−1.9
−1.91
−1.92
−1.93
−1.94
−1.95
−1.96
pull
Entries 94
Mean −1241
Std Dev 0
500
0
−500
−1000
−1500

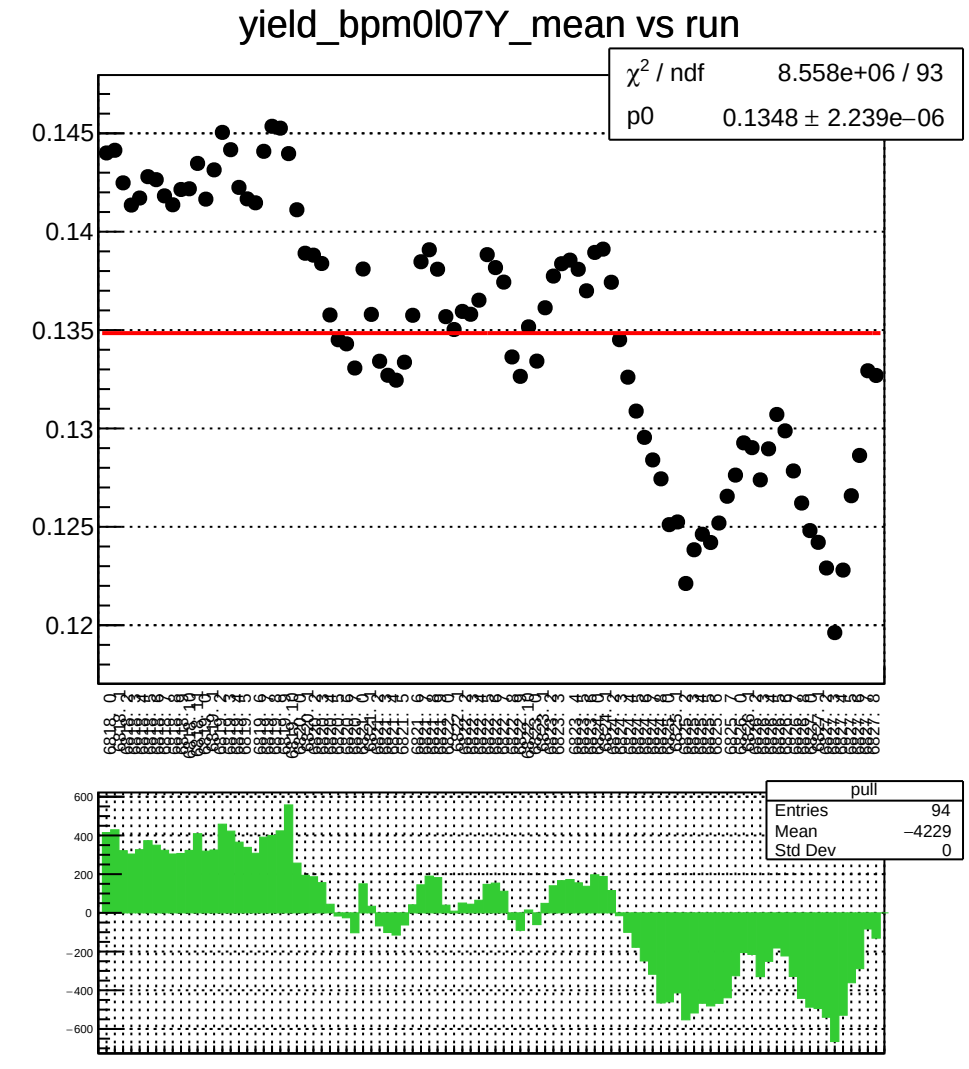

pull1D
Entries 94
Mean 0.3168
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

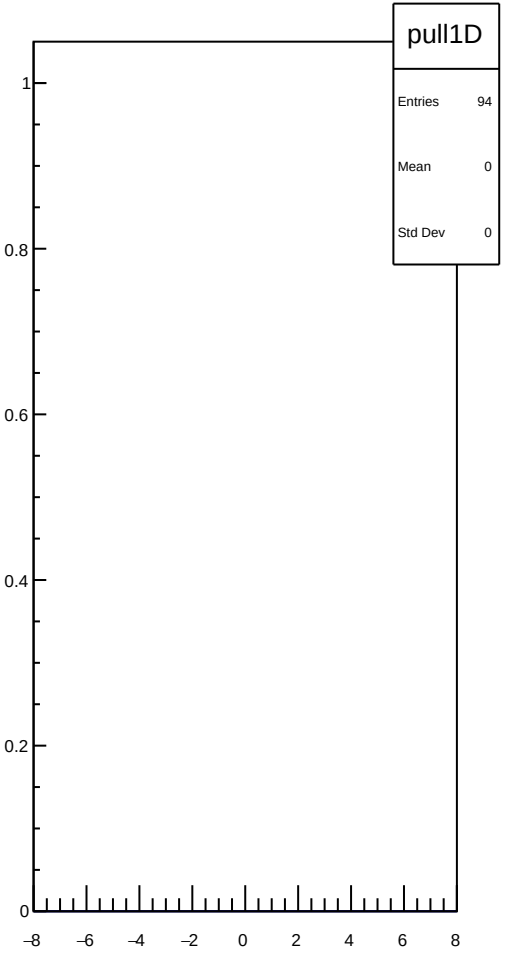

yield_bpm0l06Y_rms vs run
χ² / ndf 1.803e+05 / 93
p0 0.003436 ± 2.704e−06
0.025
0.02
0.015
0.01
0.005

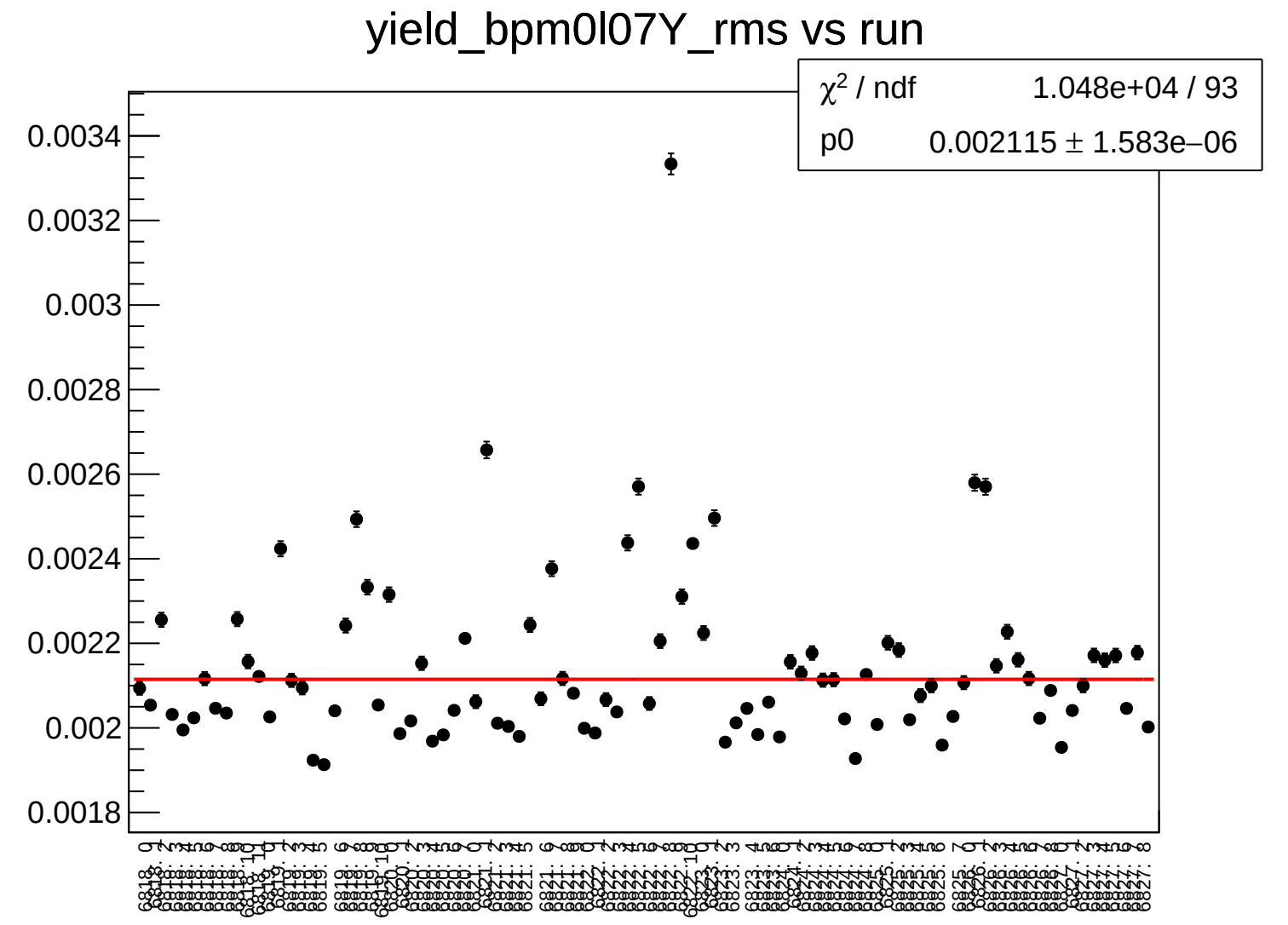

yield_bpm0l07X_mean vs run
χ² / ndf 5.772e+05 / 93
p0 0.05186 ± 1.414e−05
0.08
0.06
0.04
0.02
0
−0.02
pull
Entries 94
Mean −169.2
Std Dev 0
200
100
0
−100
−200

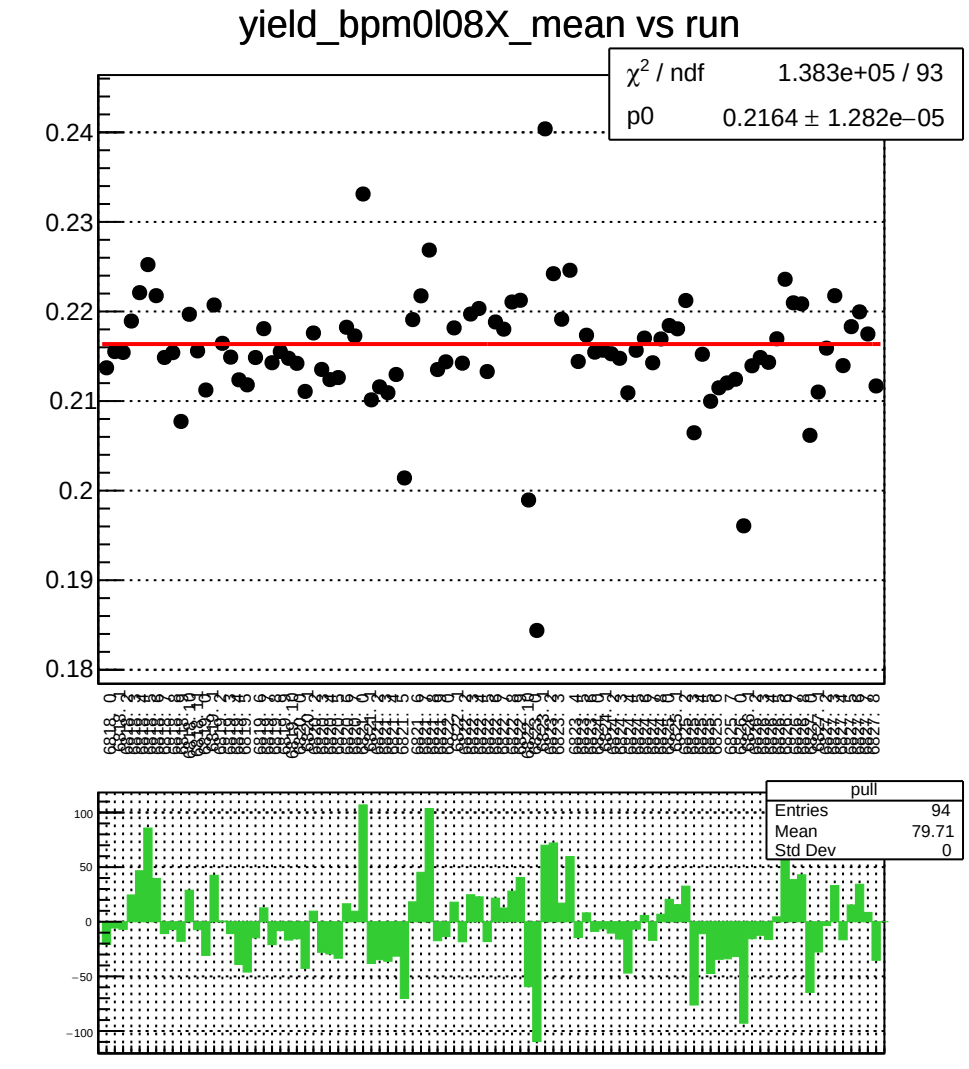

pull1D
Entries 94
Mean 2.32
Std Dev 2.683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

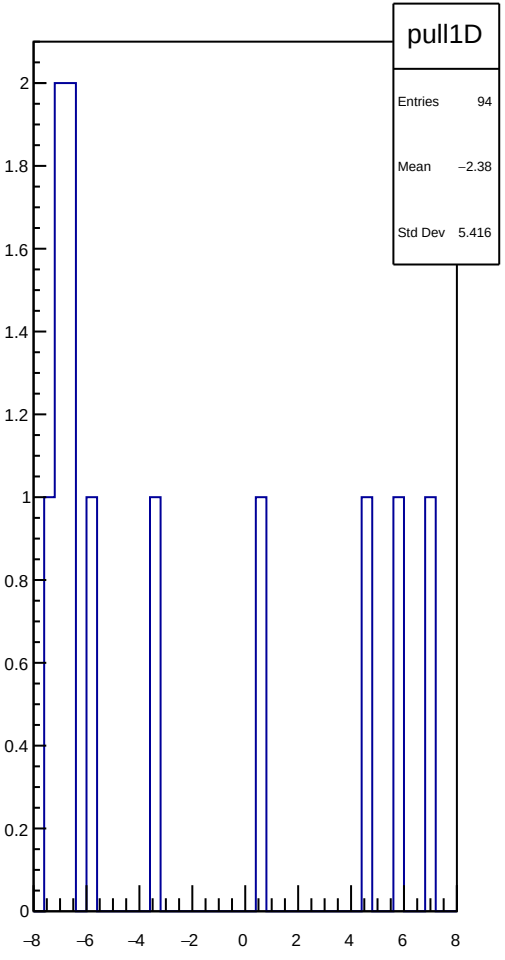

yield_bpm0l07X_rms vs run
χ^2 / ndf 9.474e+04 / 93
p0 0.01304 ± 1e−05
0.05
0.04
0.03
0.02
0.01

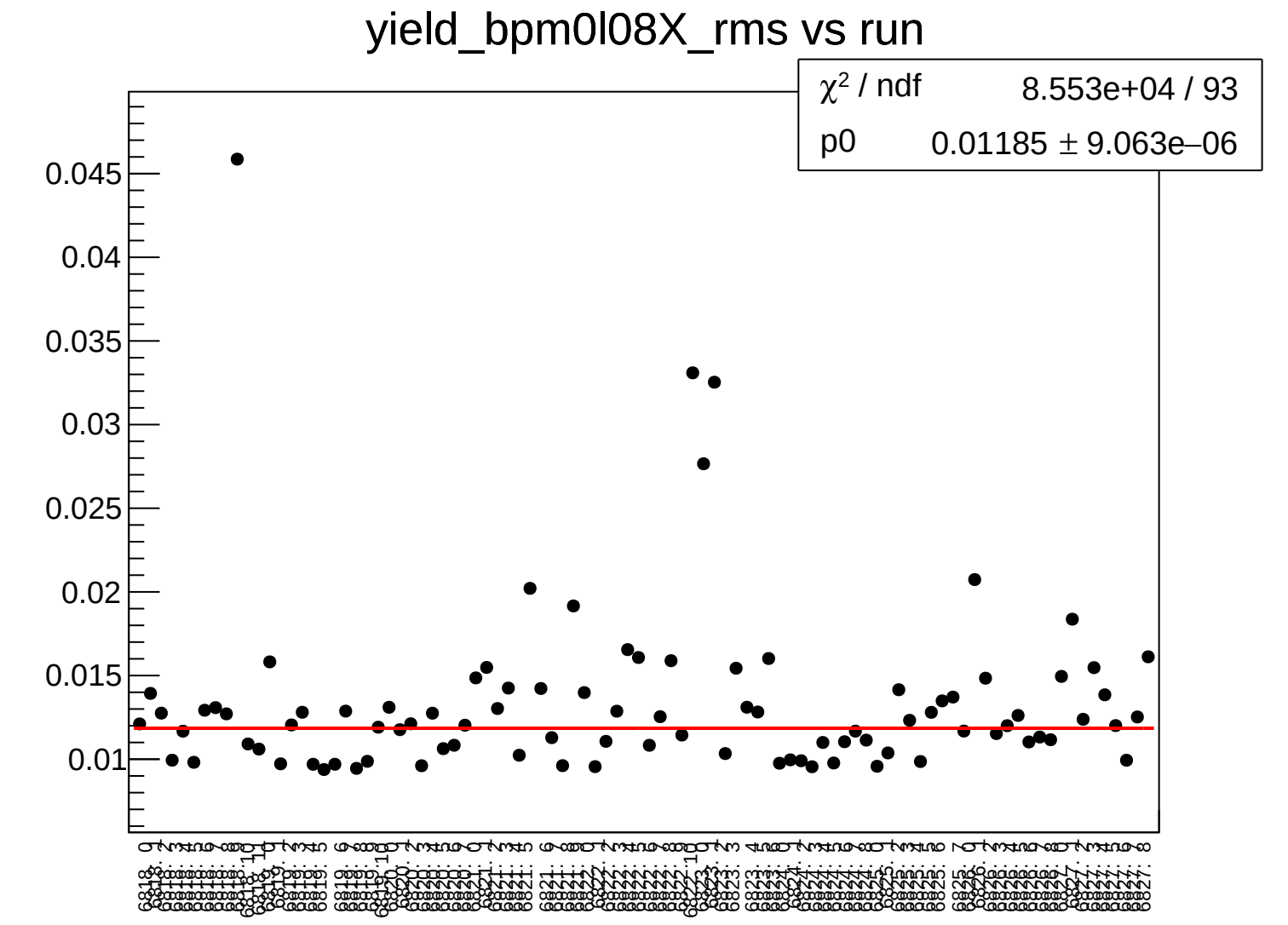

yield_bpm0l07Y_mean vs run
χ² / ndf 8.558e+06 / 93
p0 0.1348 ± 2.239e−06
0.145
0.14
0.135
0.13
0.125
0.12
pull
Entries 94
Mean −4229
Std Dev 0
600
400
200
0
−200
−400
−600

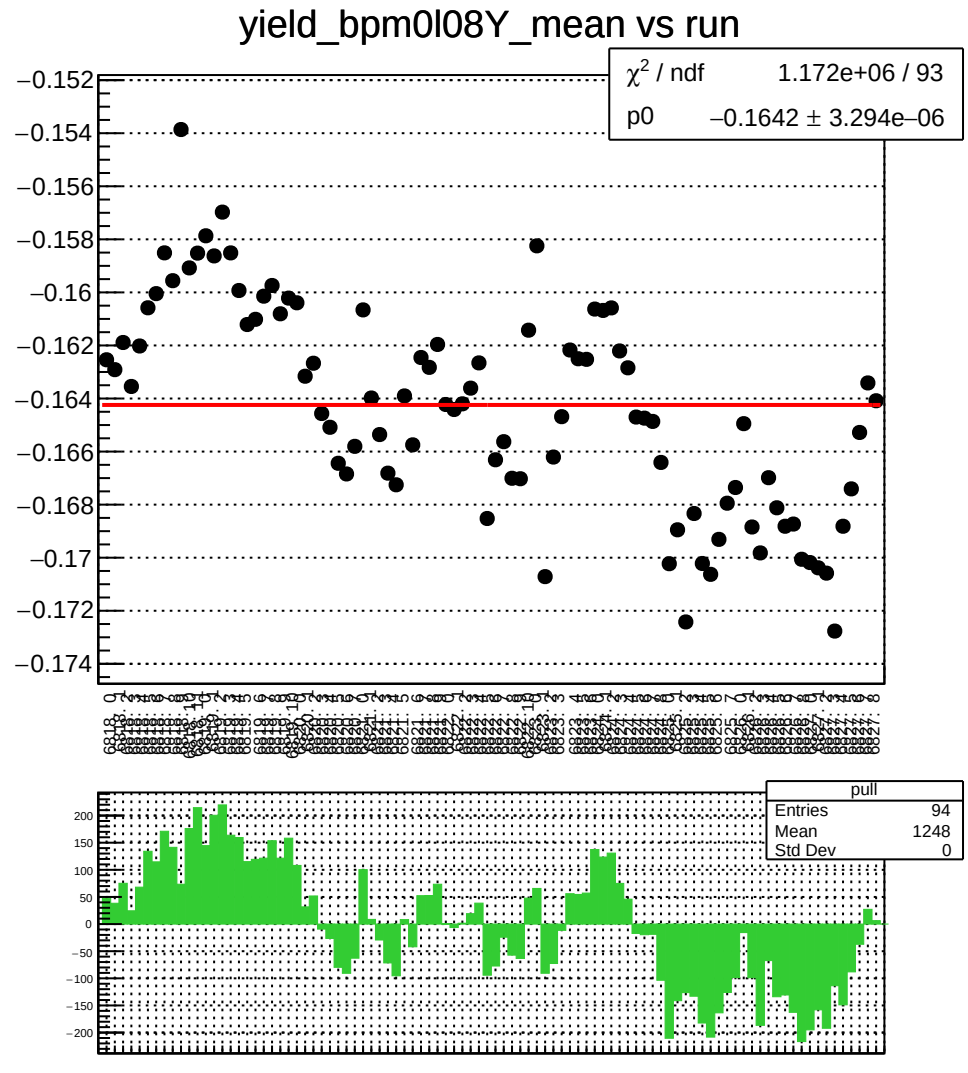

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

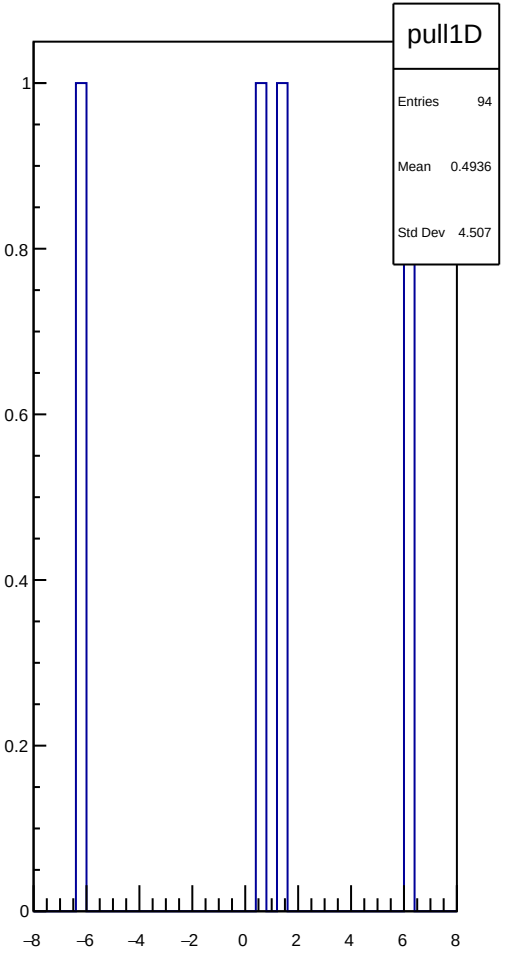

yield_bpm0l07Y_rms vs run
χ² / ndf 1.048e+04 / 93
p0 0.002115 ± 1.583e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

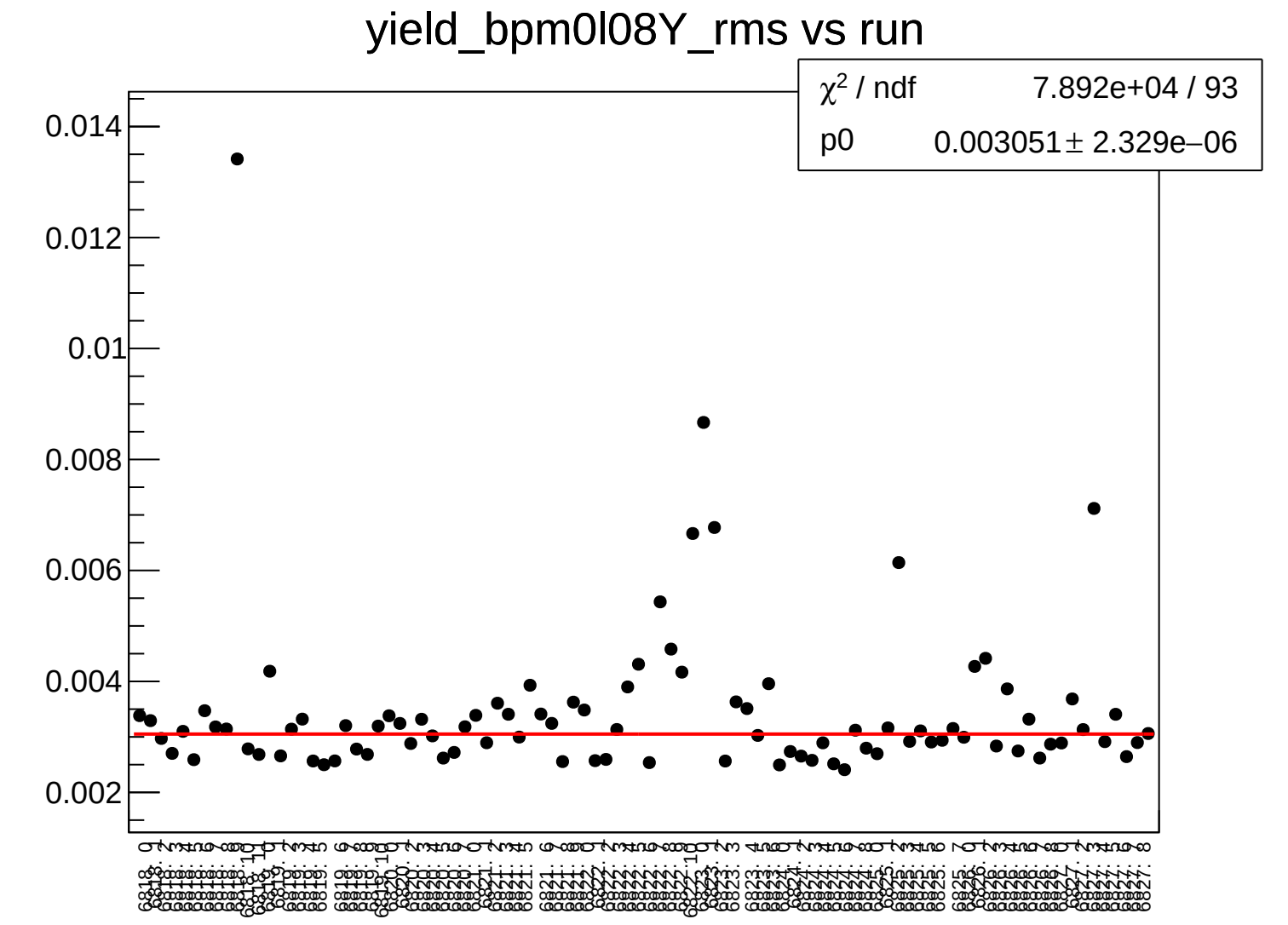

yield_bpm0l08X_mean vs run
χ² / ndf 1.383e+05 / 93
p0 0.2164 ± 1.282e−05
0.24
0.23
0.22
0.21
0.2
0.19
0.18
pull
Entries 94
Mean 79.71
Std Dev 0
100
50
0
−50
−100

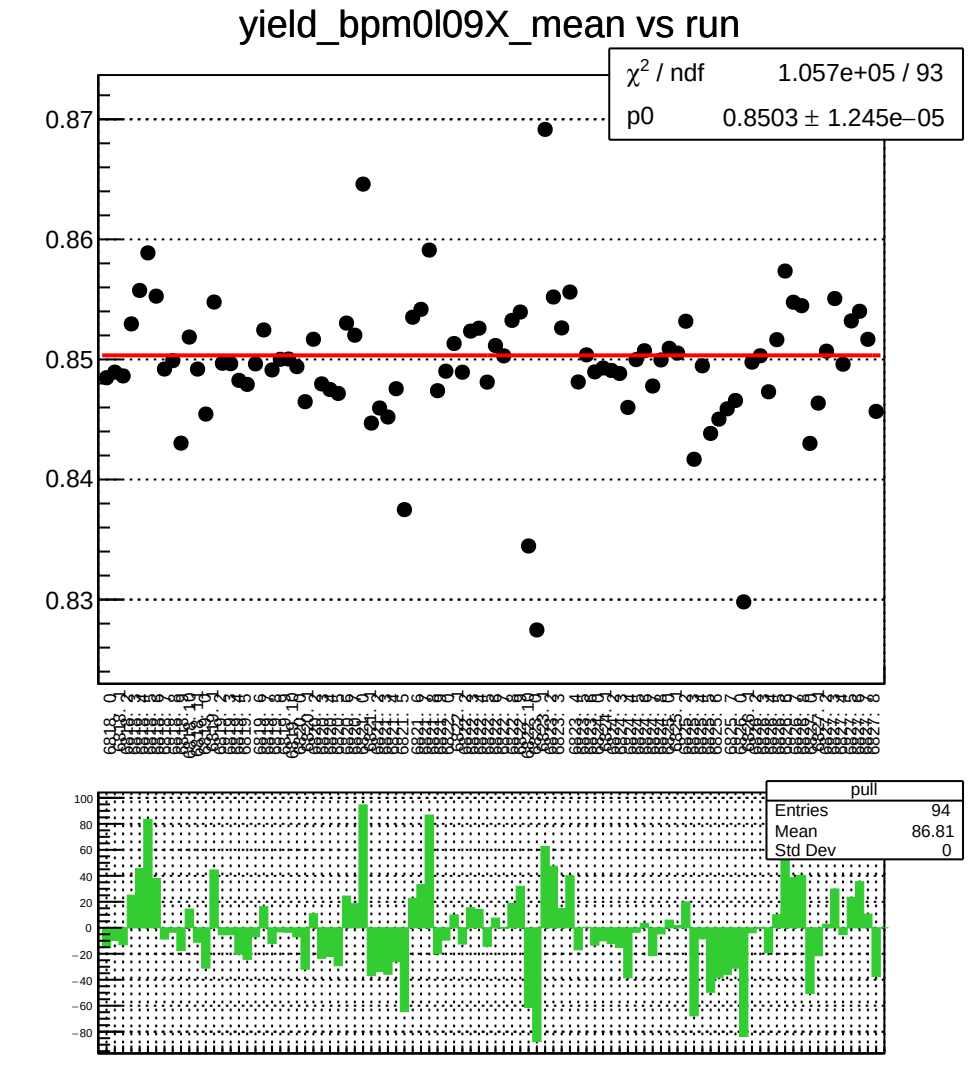

pull1D
Entries 94
Mean −2.38
Std Dev 5.416
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

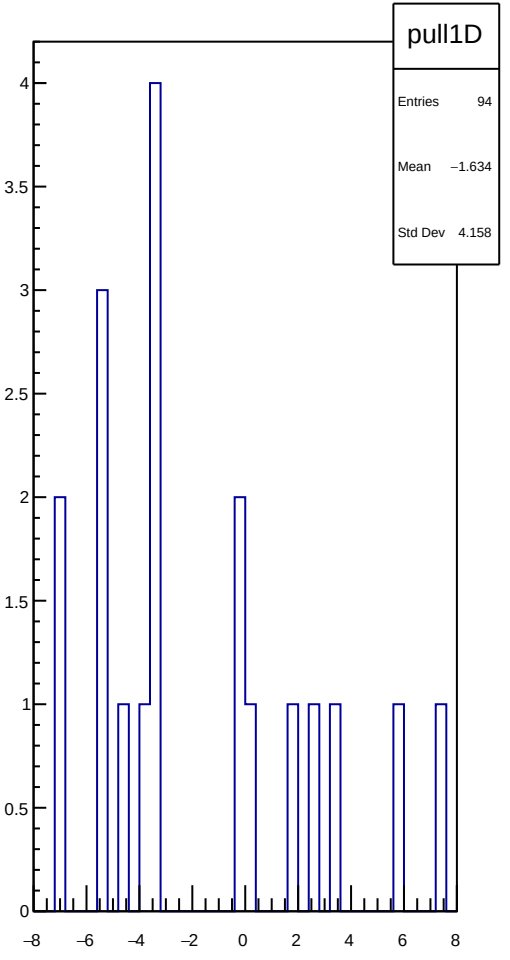

yield_bpm0l08X_rms vs run
χ² / ndf 8.553e+04 / 93
p0 0.01185 ± 9.063e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

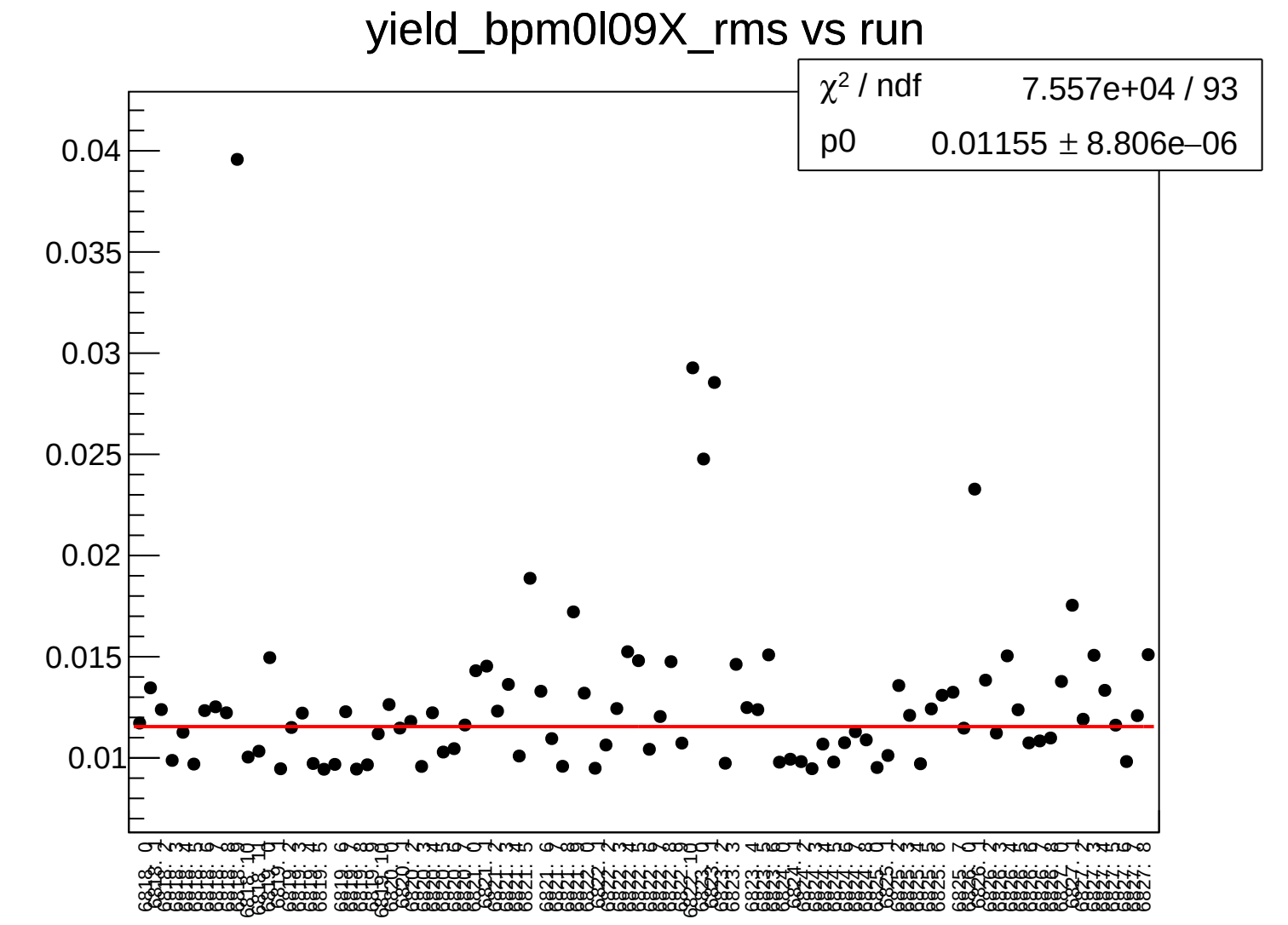

yield_bpm0l08Y_mean vs run
χ² / ndf 1.172e+06 / 93
p0 −0.1642 ± 3.294e−06
−0.152
−0.154
−0.156
−0.158
−0.16
−0.162
−0.164
−0.166
−0.168
−0.17
−0.172
−0.174
pull
Entries 94
Mean 1248
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

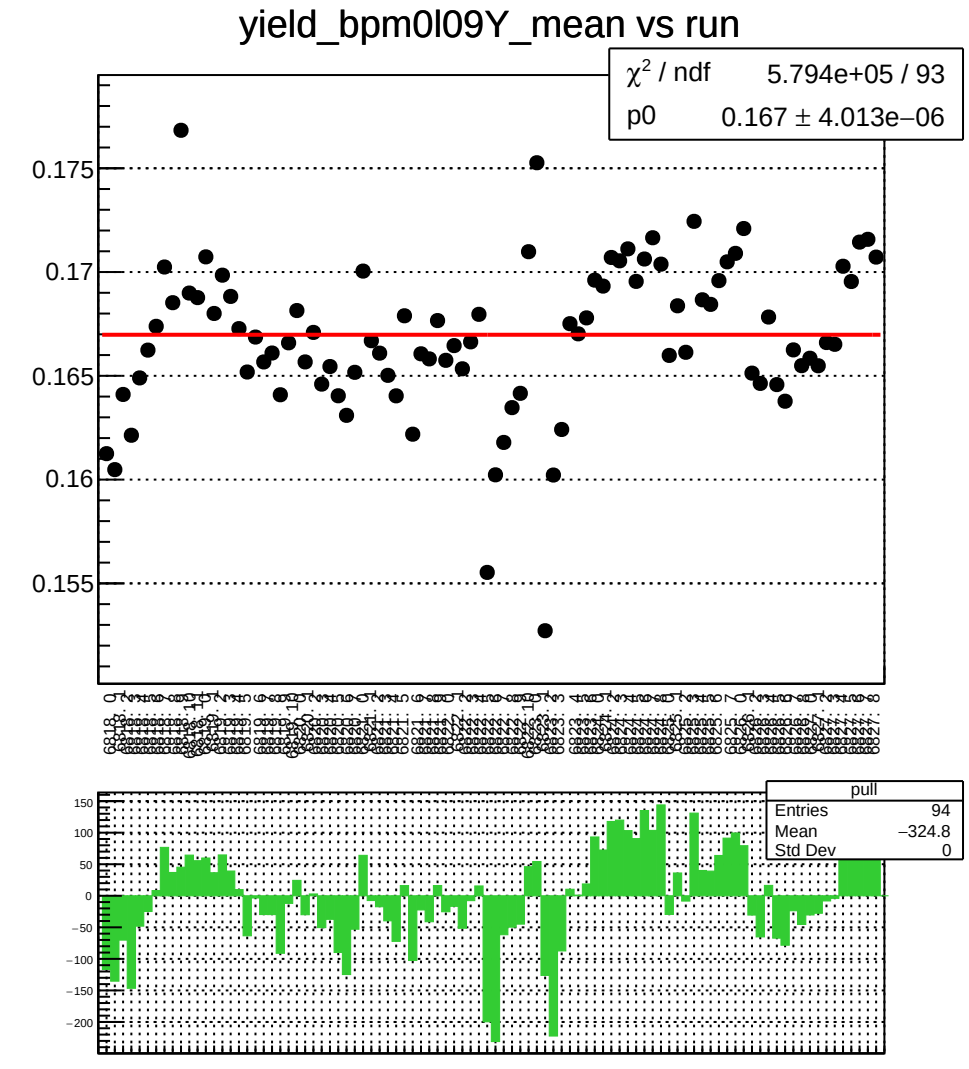

pull1D
Entries 94
Mean 0.4936
Std Dev 4.507
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

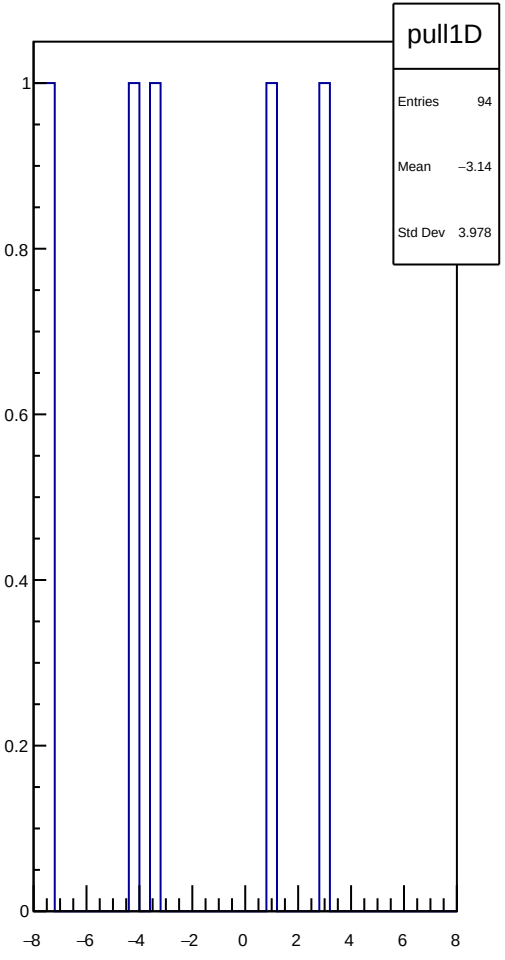

yield_bpm0l08Y_rms vs run
χ^2 / ndf 7.892e+04 / 93
p0 0.003051 ± 2.329e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

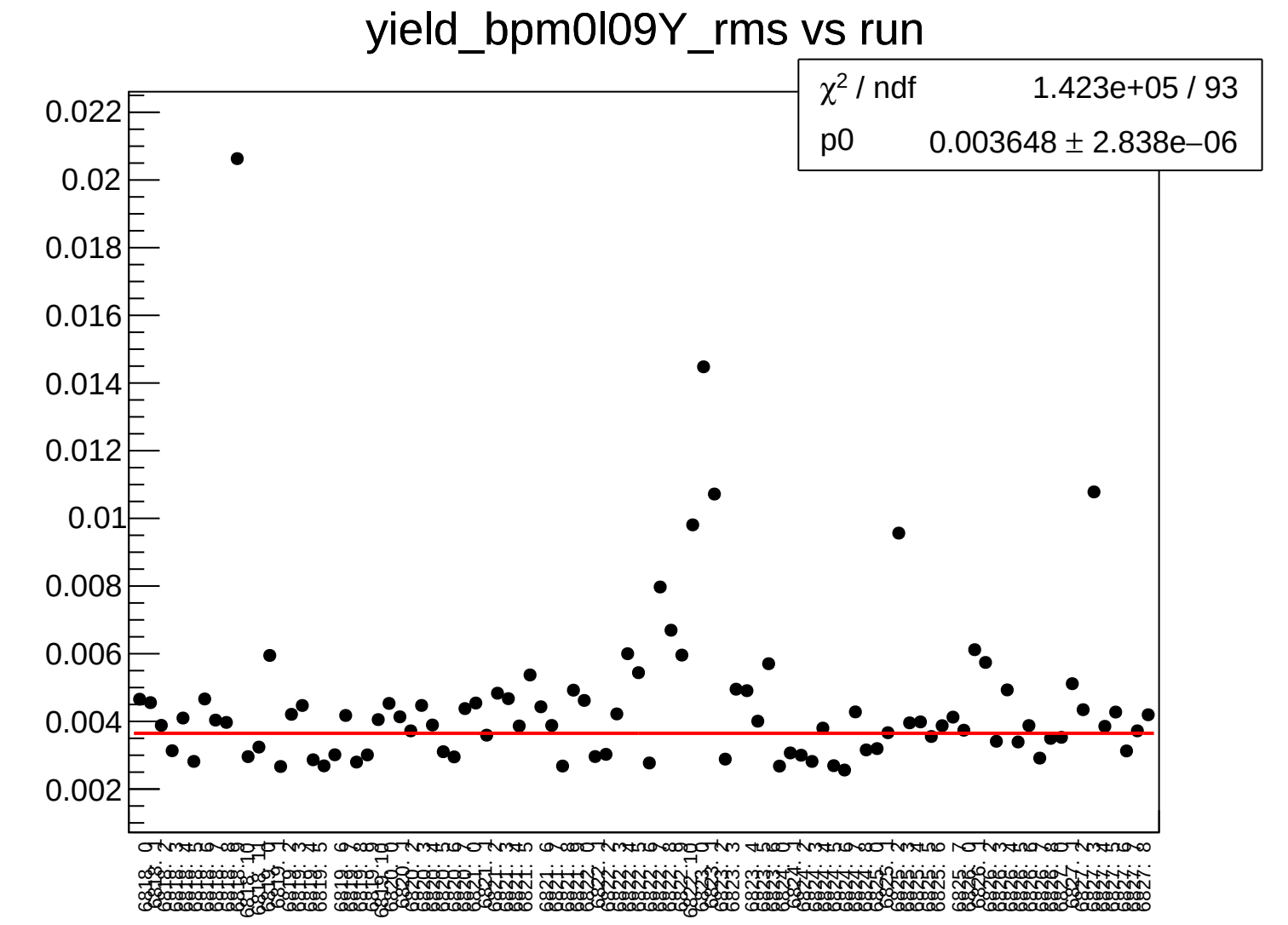

yield_bpm0l09X_mean vs run
χ² / ndf 1.057e+05 / 93
p0 0.8503 ± 1.245e−05
0.87
0.86
0.85
0.84
0.83
pull
Entries 94
Mean 86.81
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

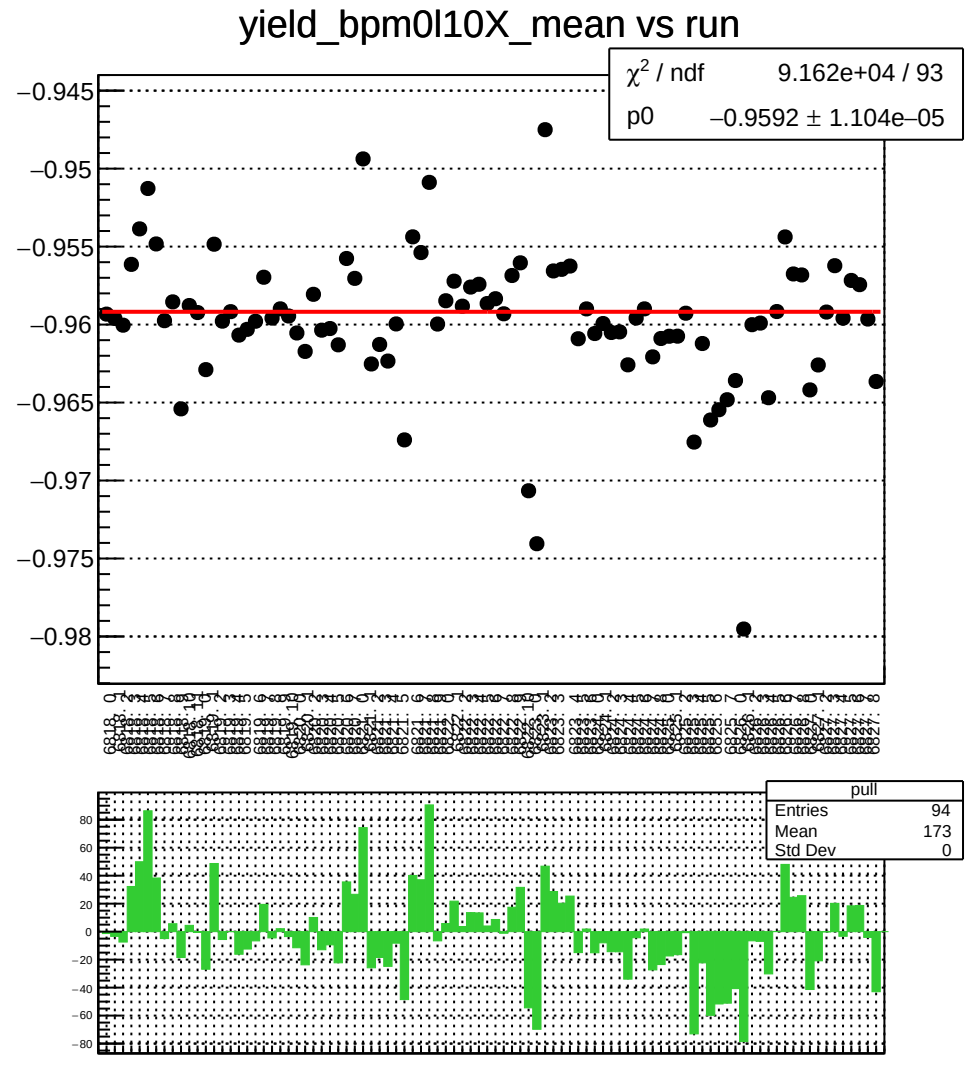

pull1D
Entries 94
Mean −1.634
Std Dev 4.158
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

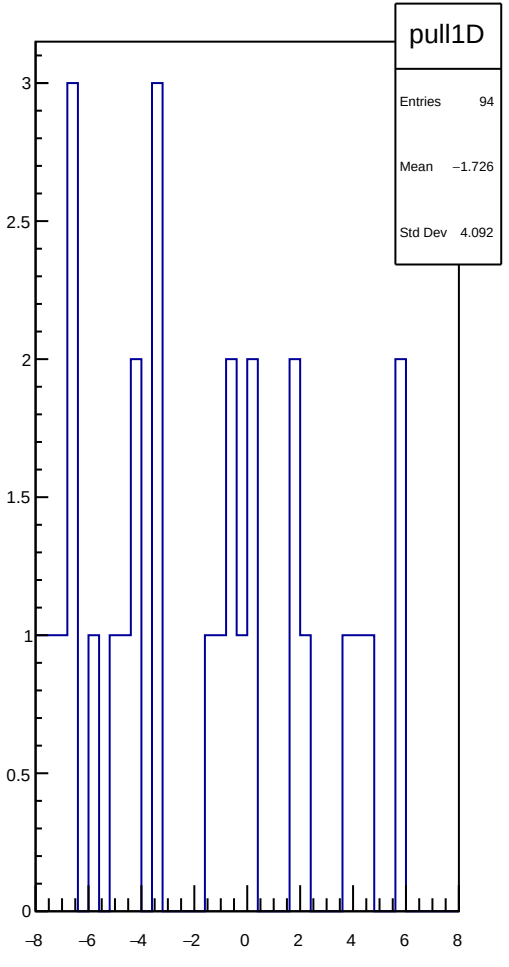

yield_bpm0l09X_rms vs run
χ² / ndf 7.557e+04 / 93
p0 0.01155 ± 8.806e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

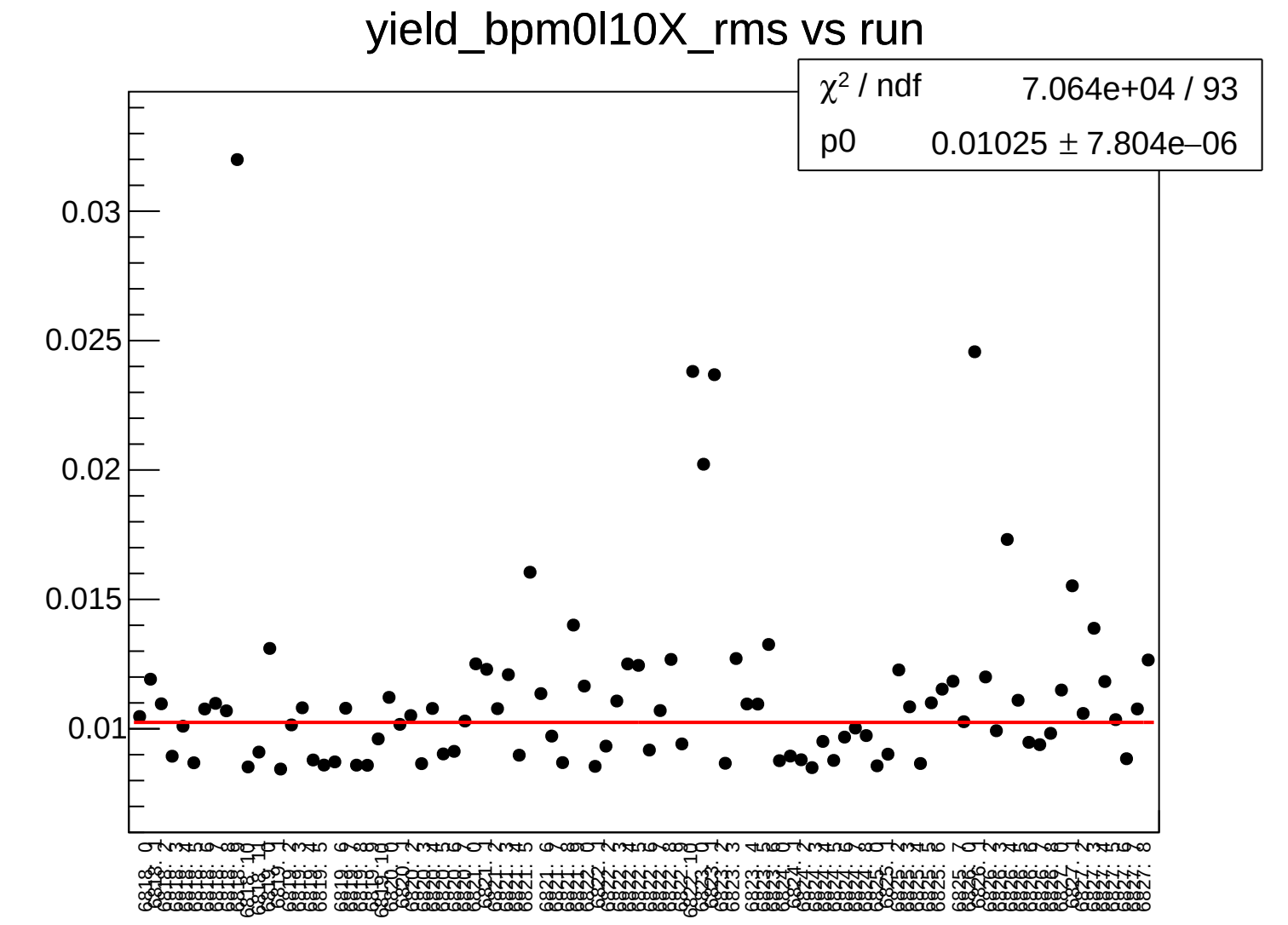

yield_bpm0l09Y_mean vs run
χ² / ndf 5.794e+05 / 93
p0 0.167 ± 4.013e−06
0.175
0.17
0.165
0.16
0.155
pull
Entries 94
Mean −324.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200

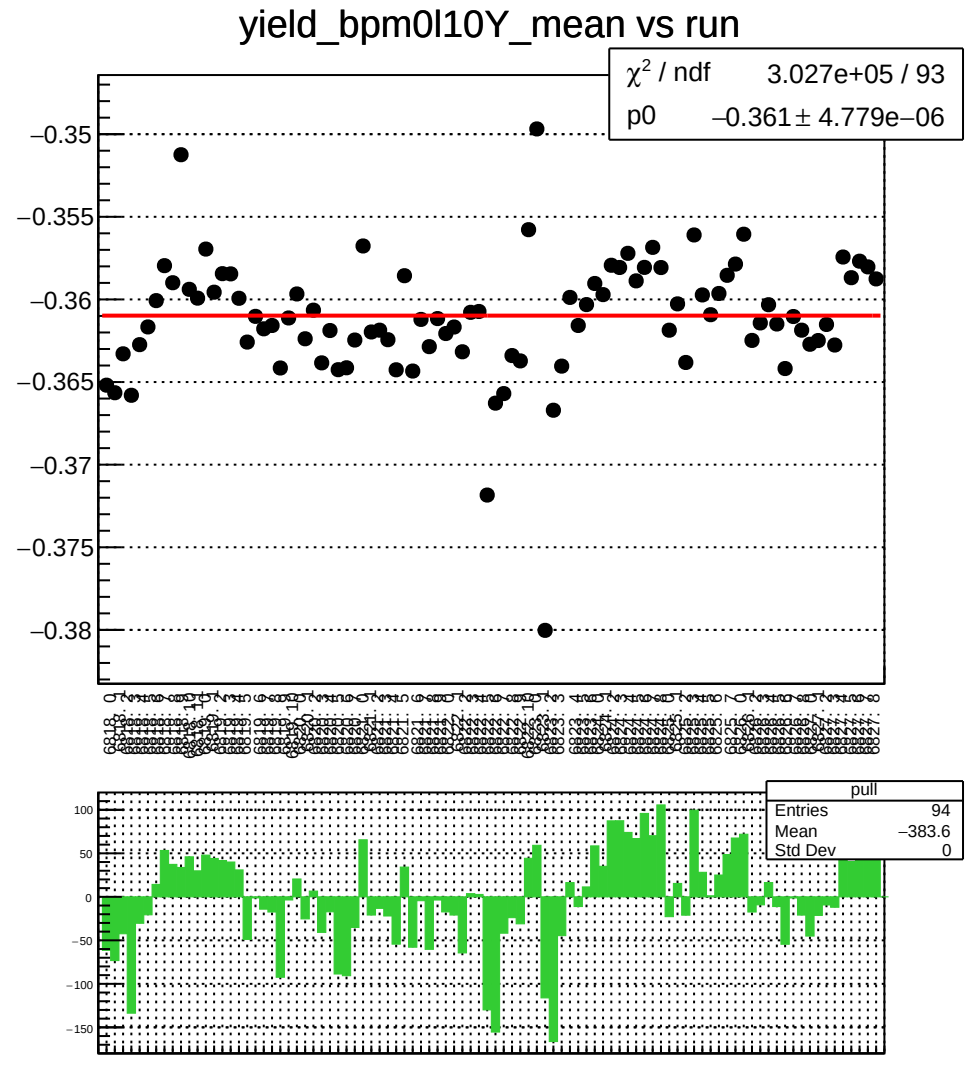

pull1D
Entries 94
Mean −3.14
Std Dev 3.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

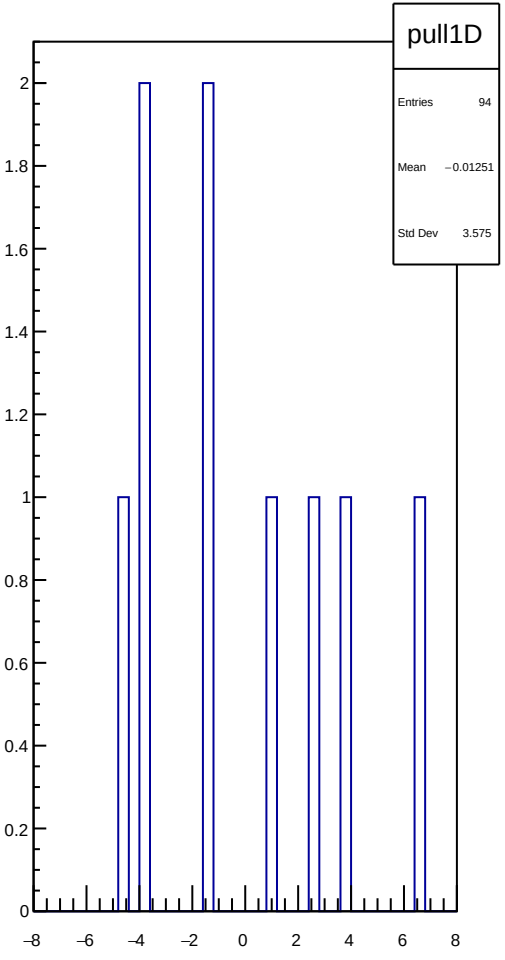

yield_bpm0l09Y_rms vs run
χ^2 / ndf 1.423e+05 / 93
p0 0.003648 ± 2.838e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

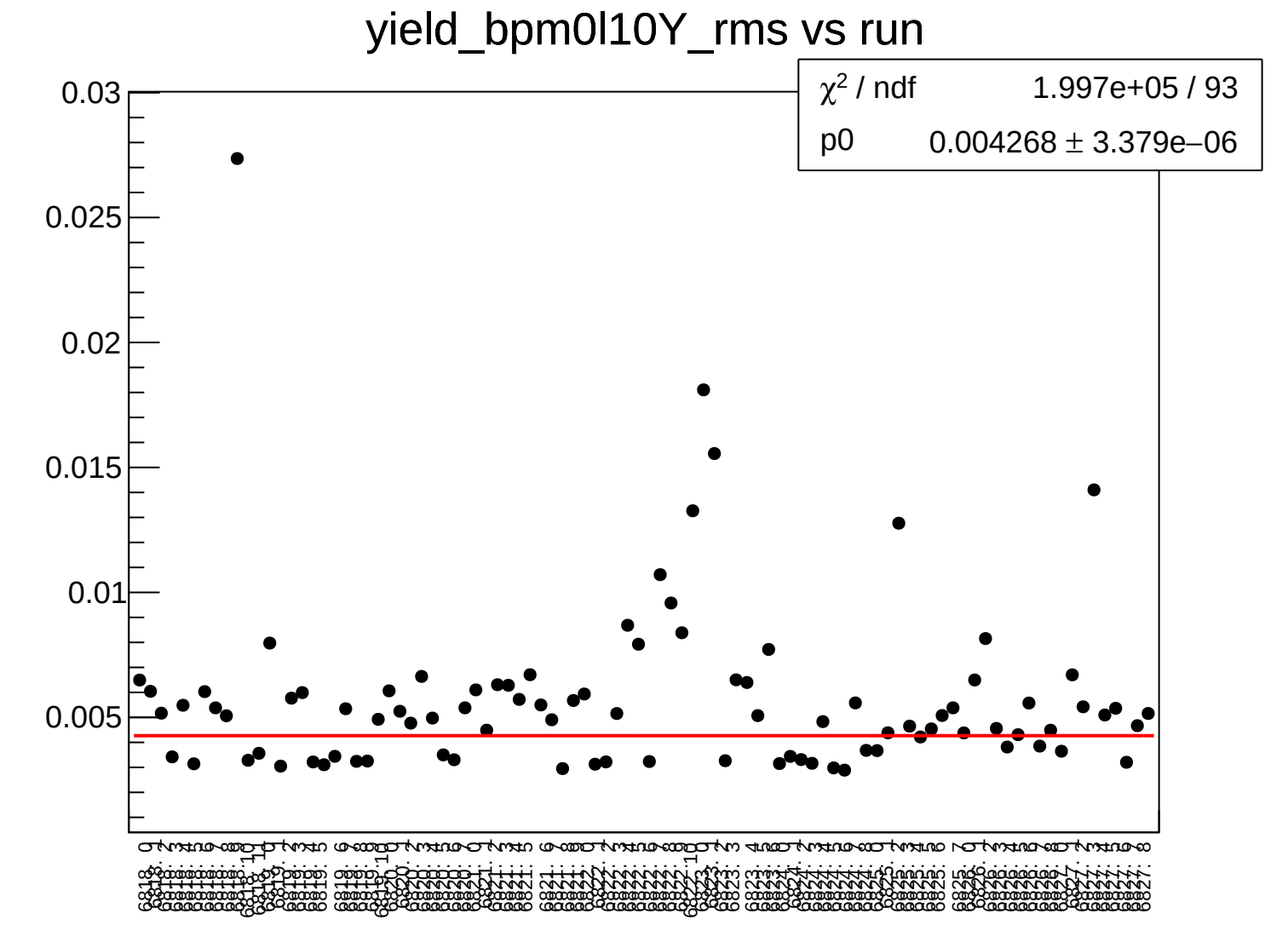

yield_bpm0l10X_mean vs run
χ² / ndf 9.162e+04 / 93
p0 −0.9592 ± 1.104e−05
−0.945
−0.95
−0.955
−0.96
−0.965
−0.97
−0.975
−0.98
pull
Entries 94
Mean 173
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

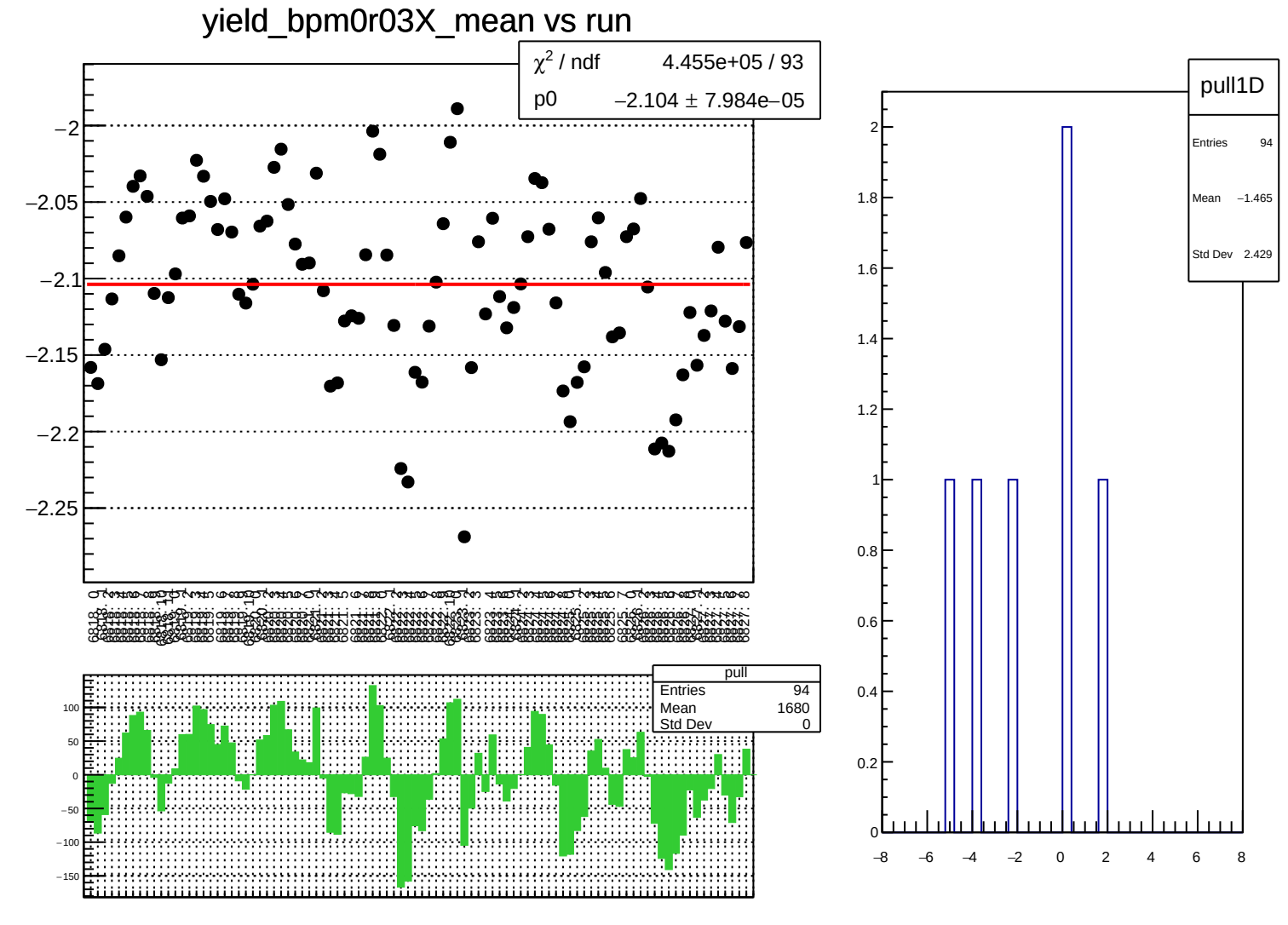

pull1D
Entries 94
Mean −1.726
Std Dev 4.092
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

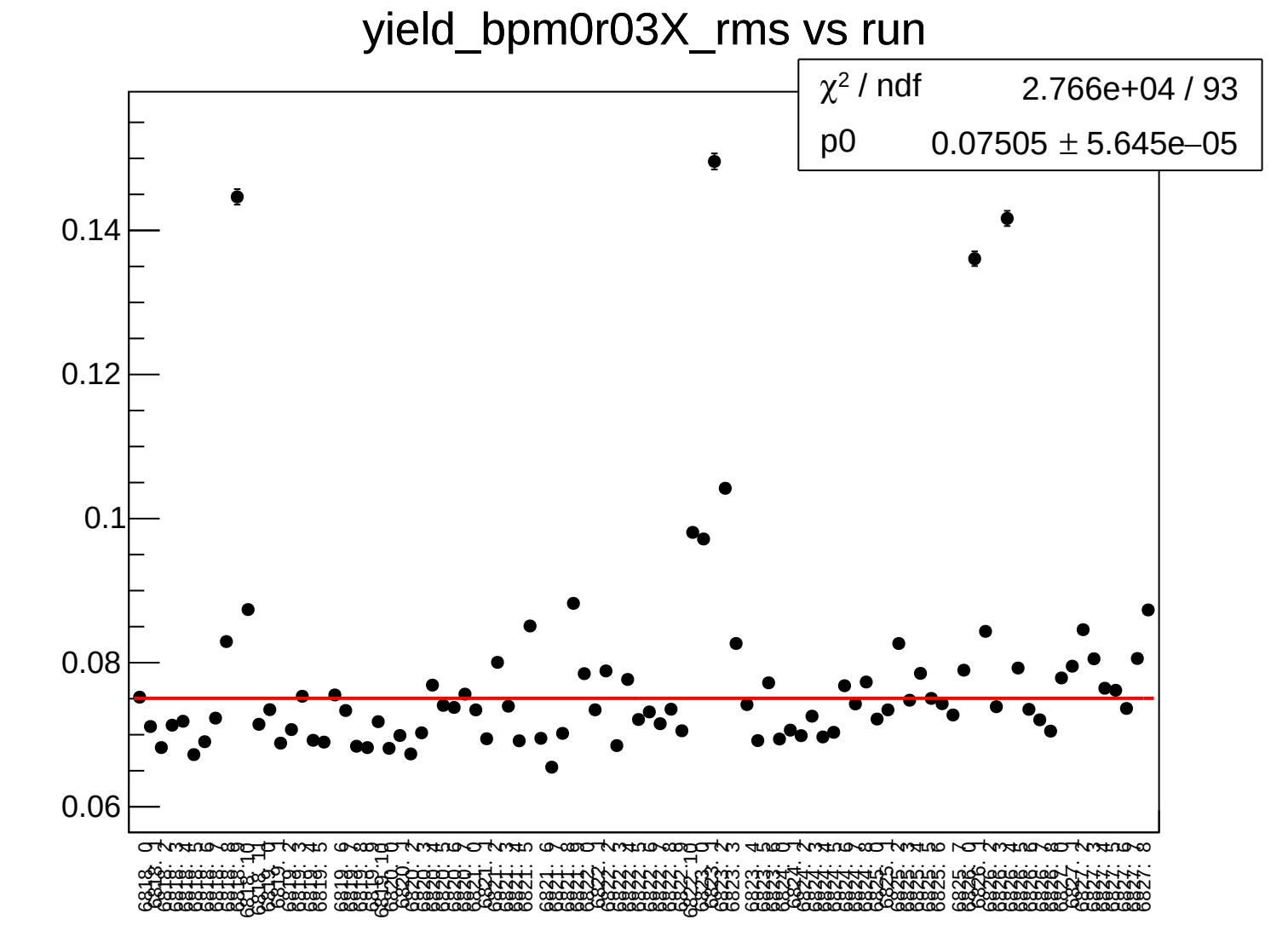

yield_bpm0l10X_rms vs run
χ² / ndf 7.064e+04 / 93
p0 0.01025 ± 7.804e–06
0.03
0.025
0.02
0.015
0.01

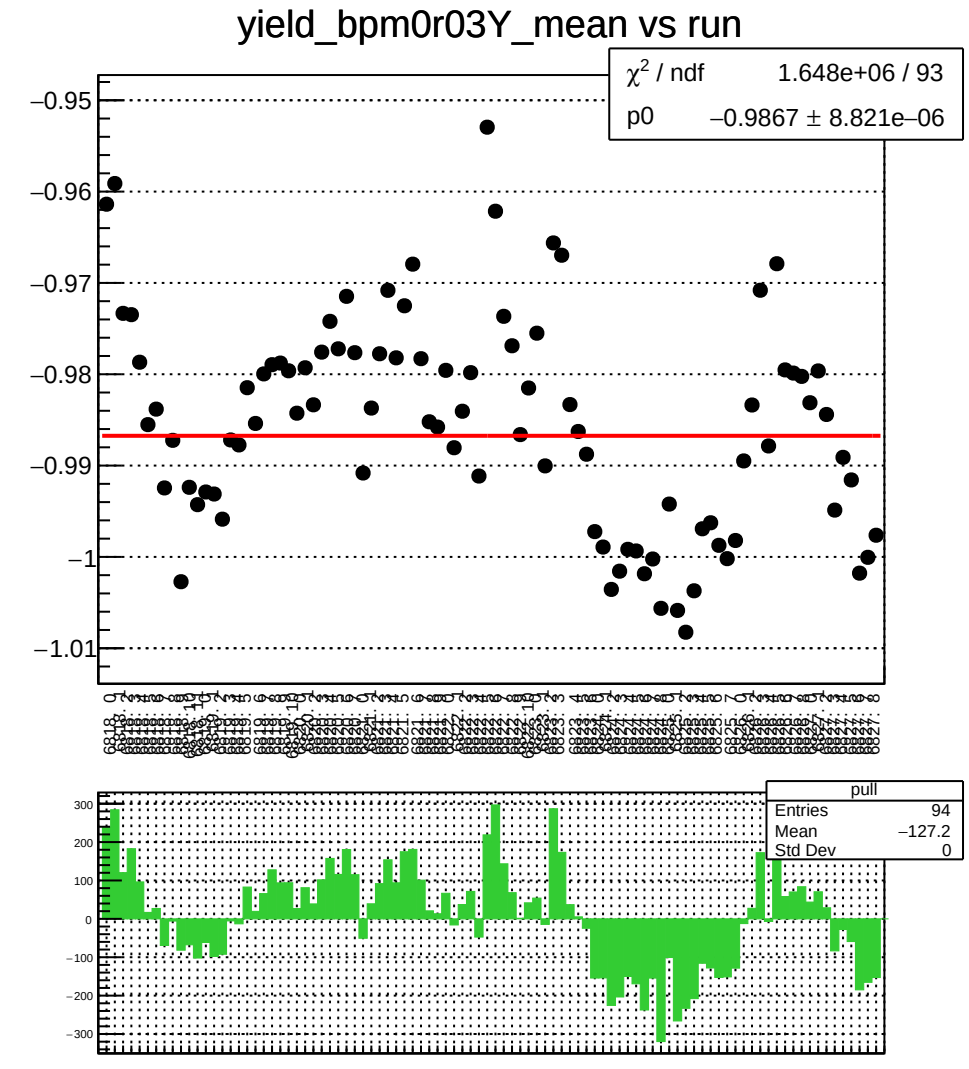

yield_bpm0l10Y_mean vs run
χ² / ndf 3.027e+05 / 93
p0 −0.361 ± 4.779e−06
−0.35
−0.355
−0.36
−0.365
−0.37
−0.375
−0.38
pull
Entries 94
Mean −383.6
Std Dev 0
100
50
0
−50
−100
−150

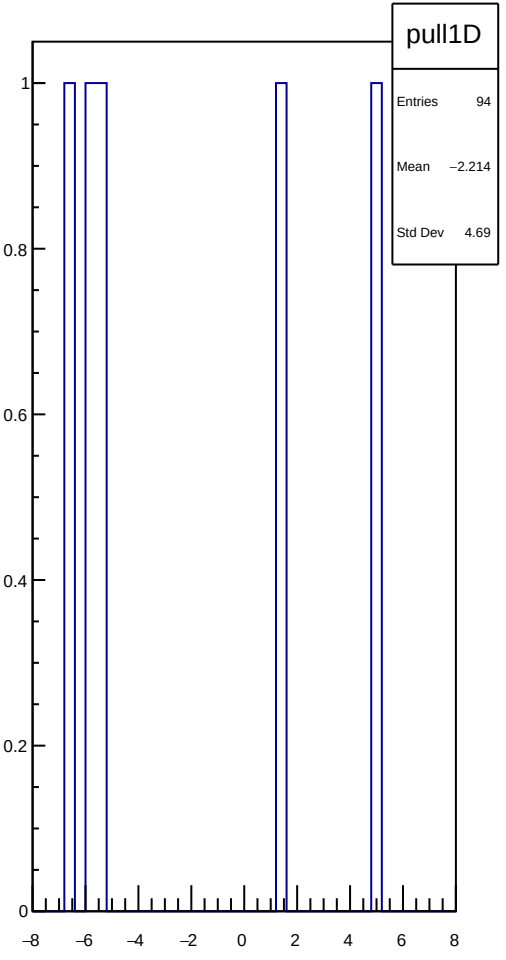

pull1D
Entries 94
Mean −0.01251
Std Dev 3.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

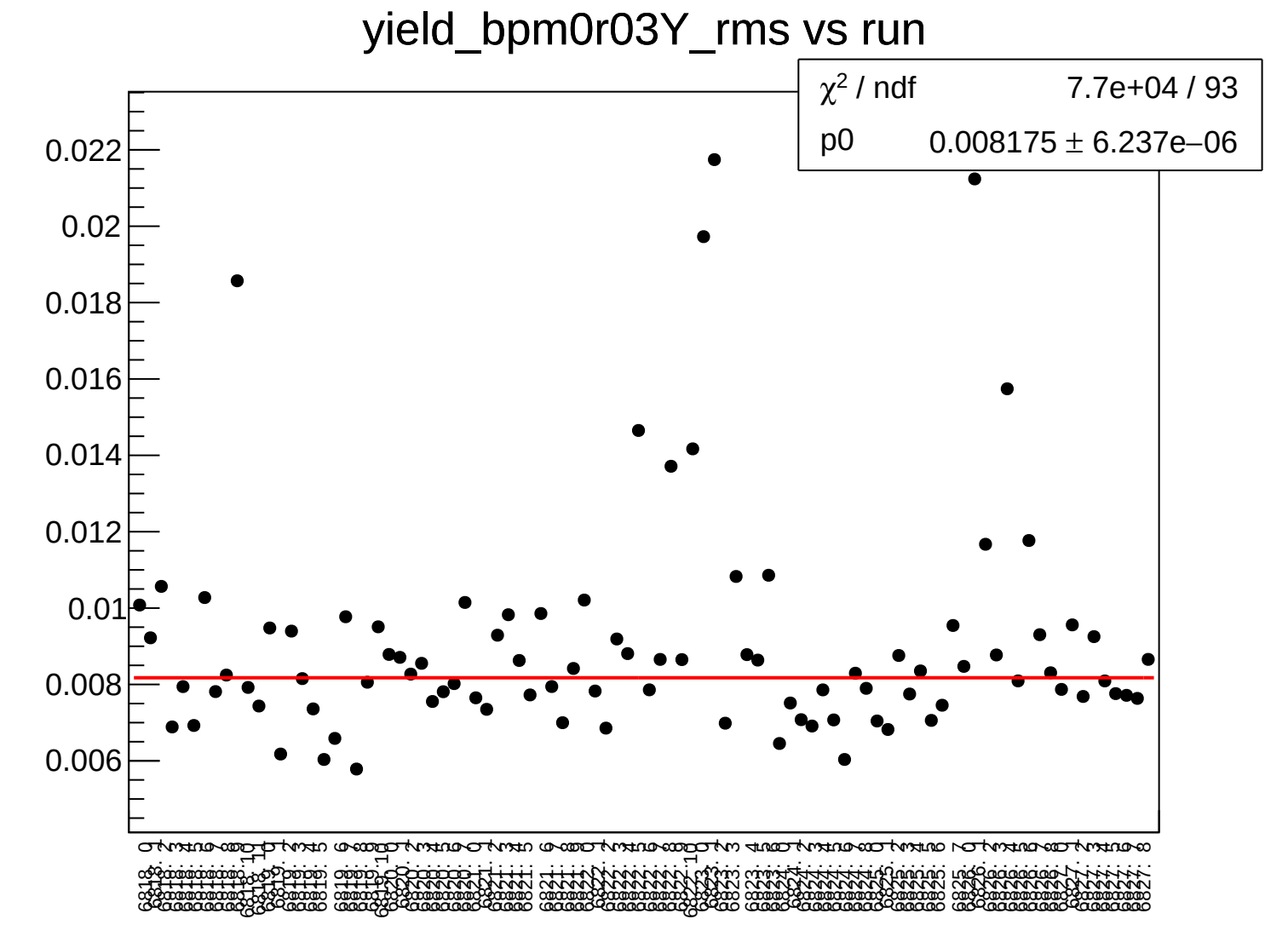

yield_bpm0l10Y_rms vs run
χ² / ndf 1.997e+05 / 93
p0 0.004268 ± 3.379e−06
0.03
0.025
0.02
0.015
0.01
0.005

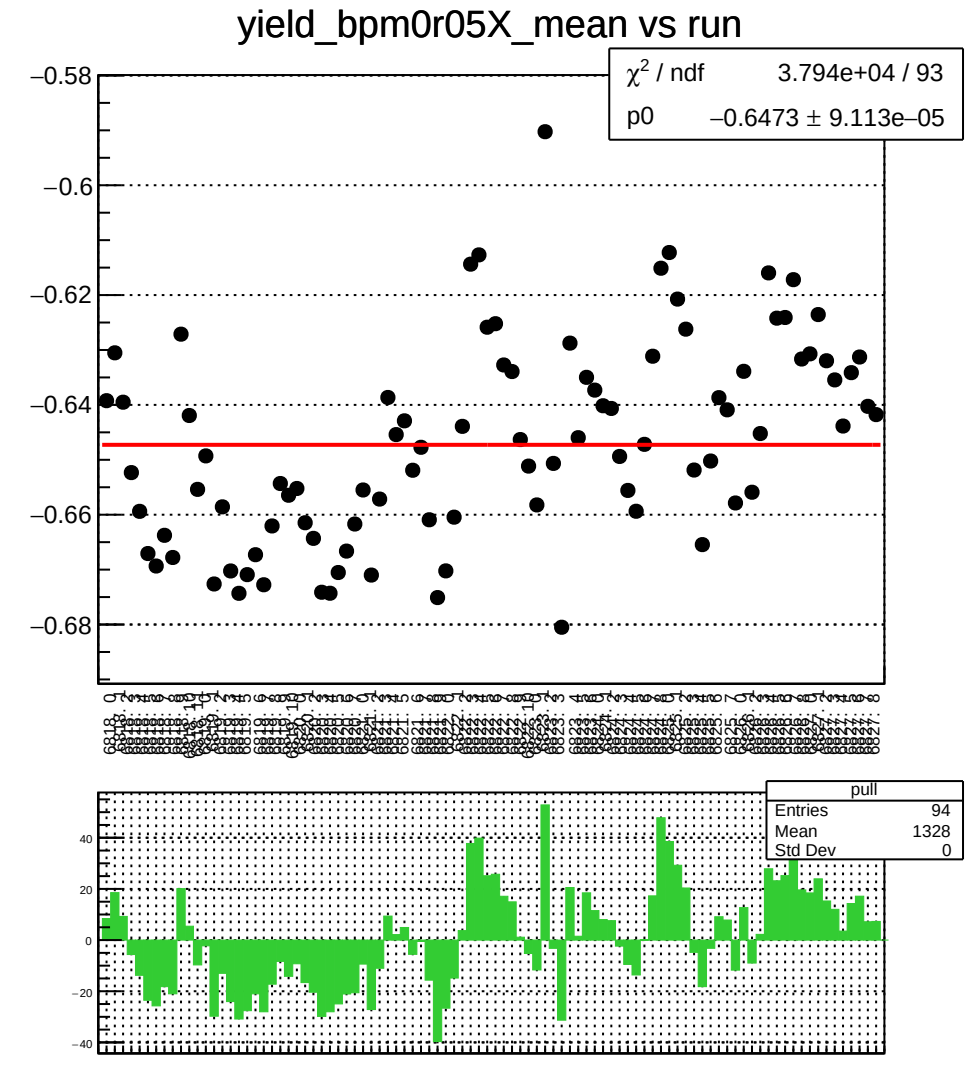

yield_bpm0r03X_mean vs run
χ² / ndf 4.455e+05 / 93
p0 −2.104 ± 7.984e−05
−2
−2.05
−2.1
−2.15
−2.2
−2.25
pull
Entries 94
Mean 1680
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 94
Mean −1.465
Std Dev 2.429
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

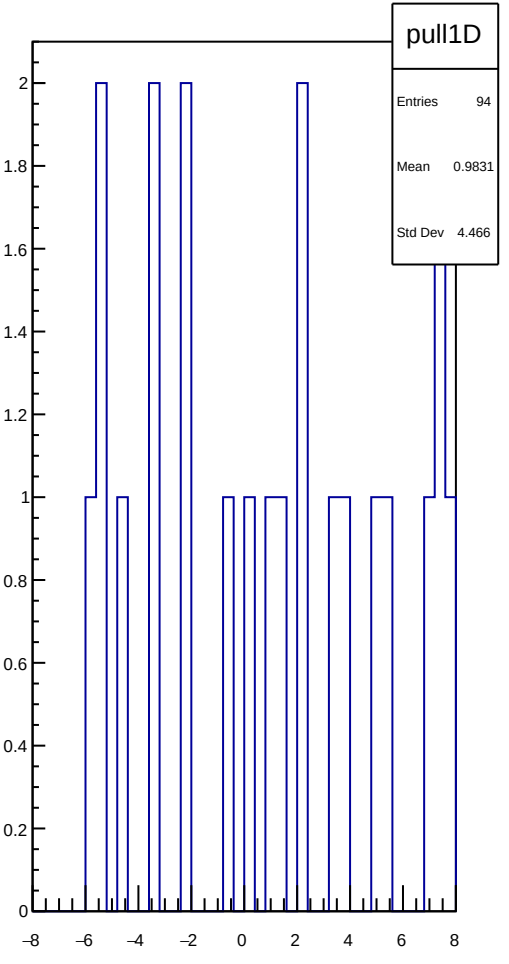

yield_bpm0r03X_rms vs run
χ² / ndf 2.766e+04 / 93
p0 0.07505 ± 5.645e–05
0.14
0.12
0.1
0.08
0.06

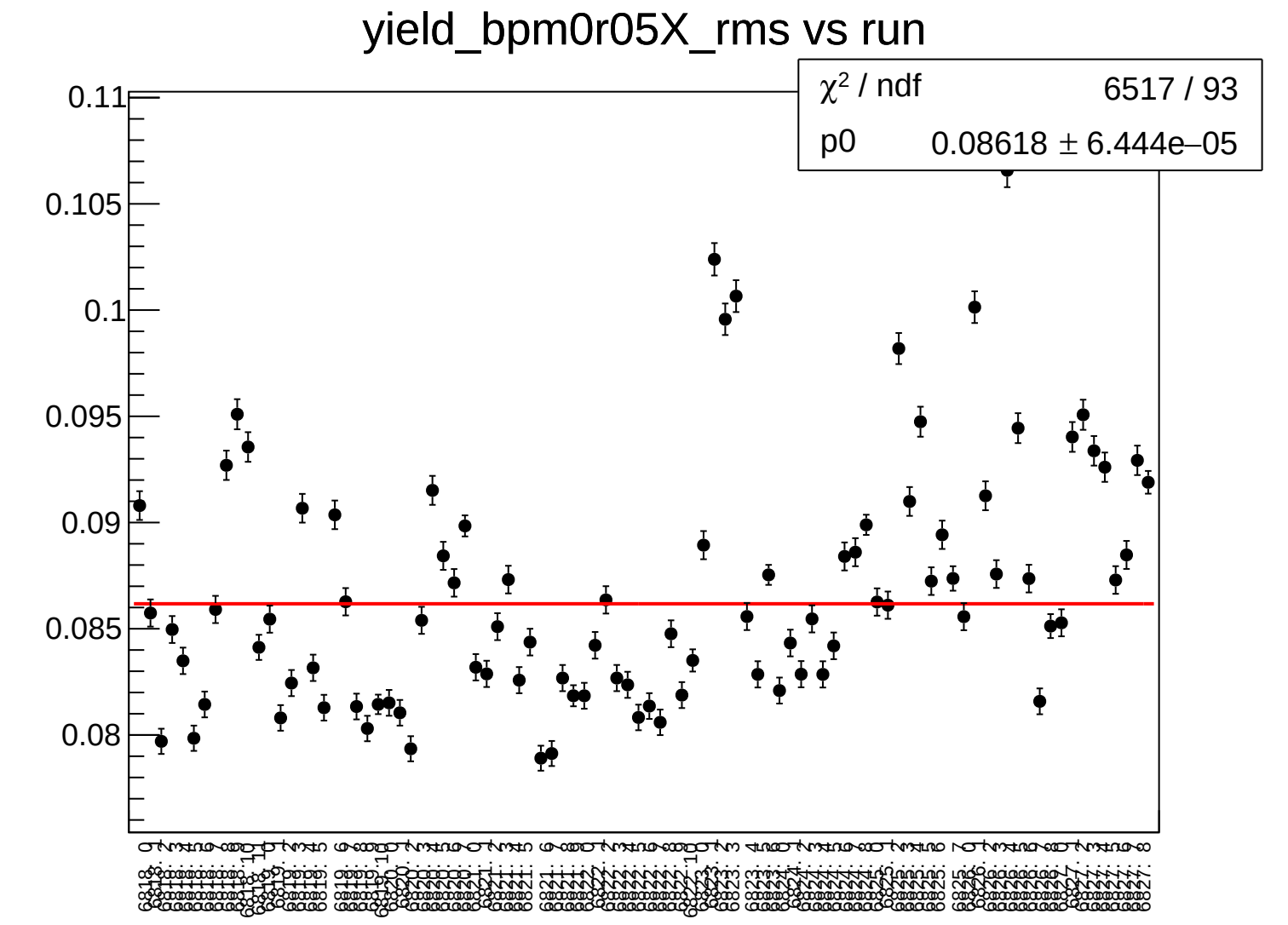

yield_bpm0r03Y_mean vs run
χ² / ndf 1.648e+06 / 93
p0 −0.9867 ± 8.821e−06
−0.95
−0.96
−0.97
−0.98
−0.99
−1
−1.01
pull
Entries 94
Mean −127.2
Std Dev 0
300
200
100
0
−100
−200
−300

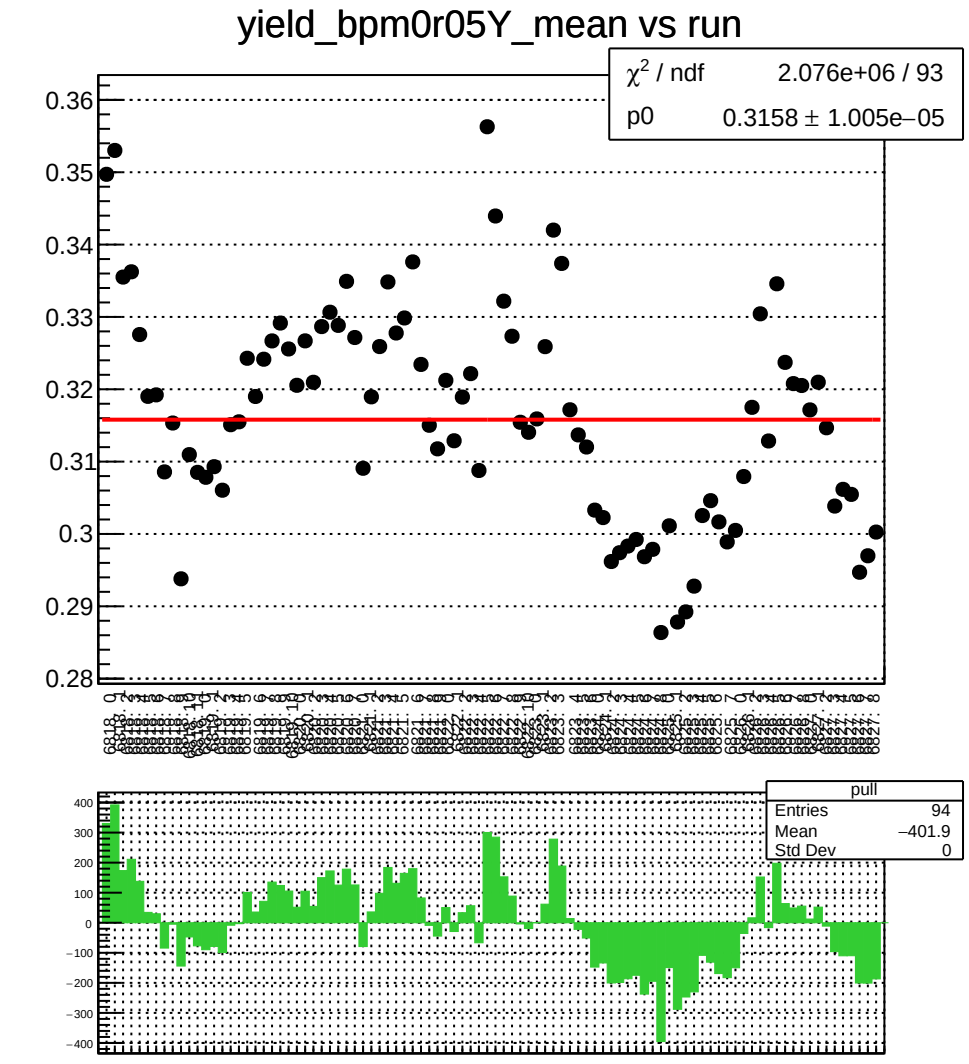

pull1D
Entries 94
Mean −2.214
Std Dev 4.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

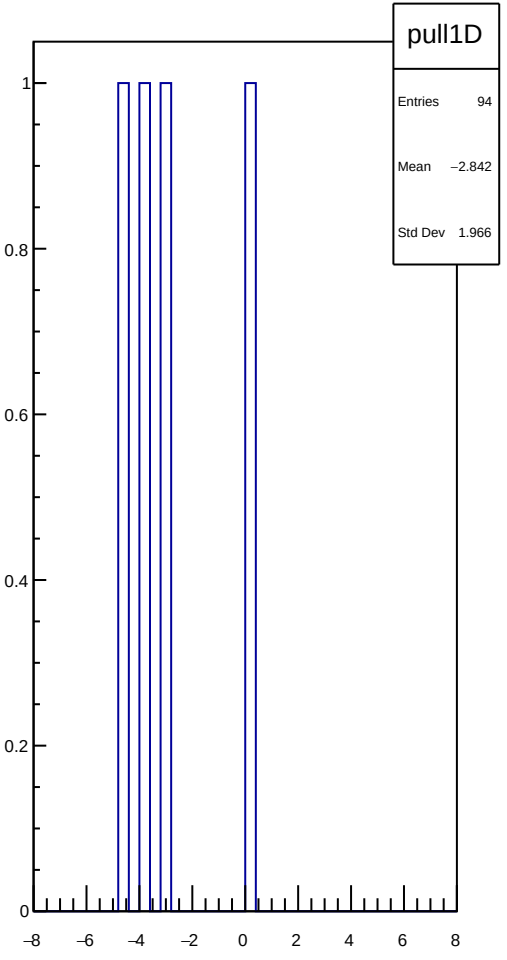

yield_bpm0r03Y_rms vs run
χ² / ndf 7.7e+04 / 93
p0 0.008175 ± 6.237e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

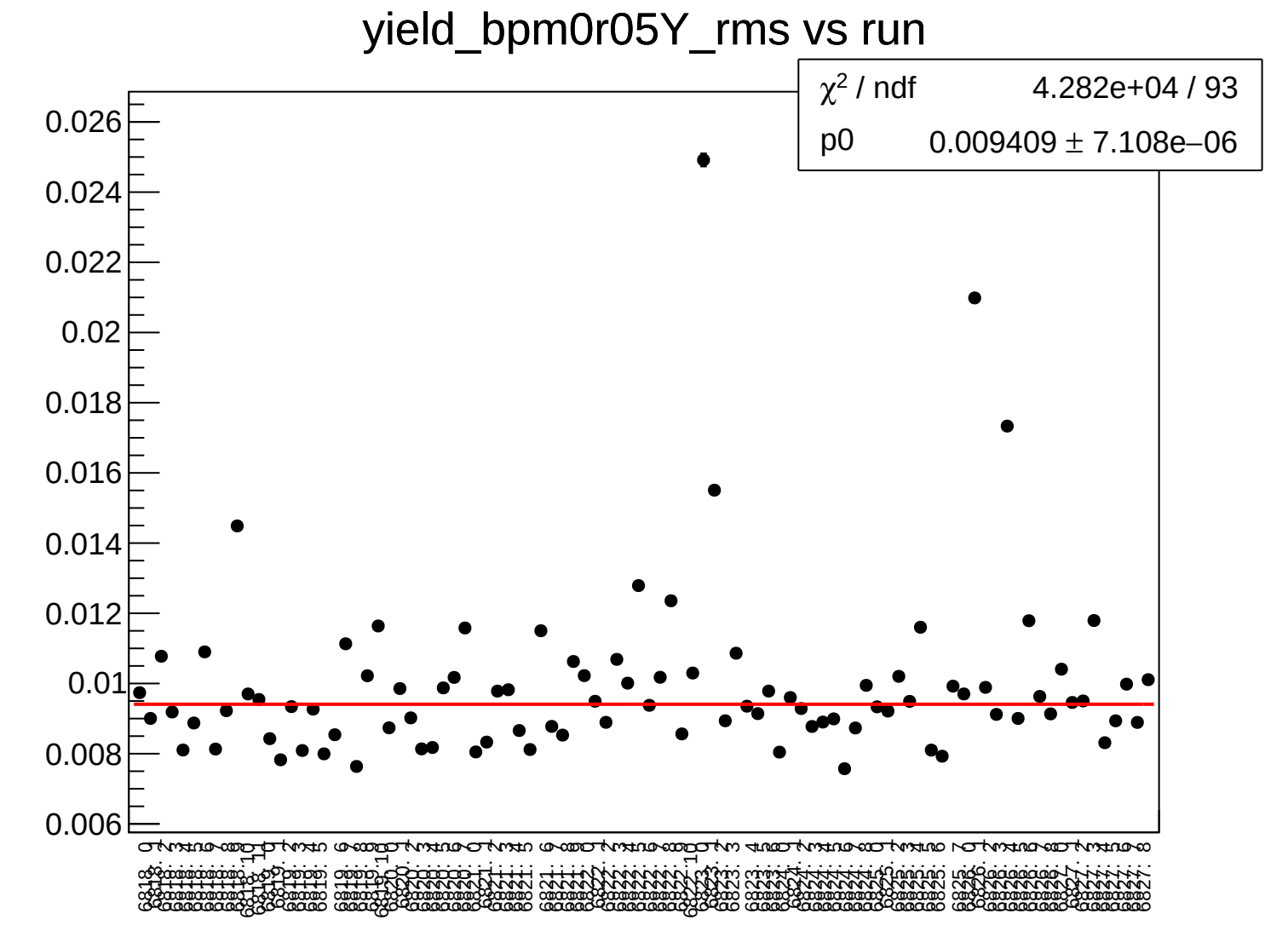

yield_bpm0r05X_mean vs run
χ² / ndf 3.794e+04 / 93
p0 −0.6473 ± 9.113e−05
−0.58
−0.6
−0.62
−0.64
−0.66
−0.68
pull
Entries 94
Mean 1328
Std Dev 0
40
20
0
−20
−40

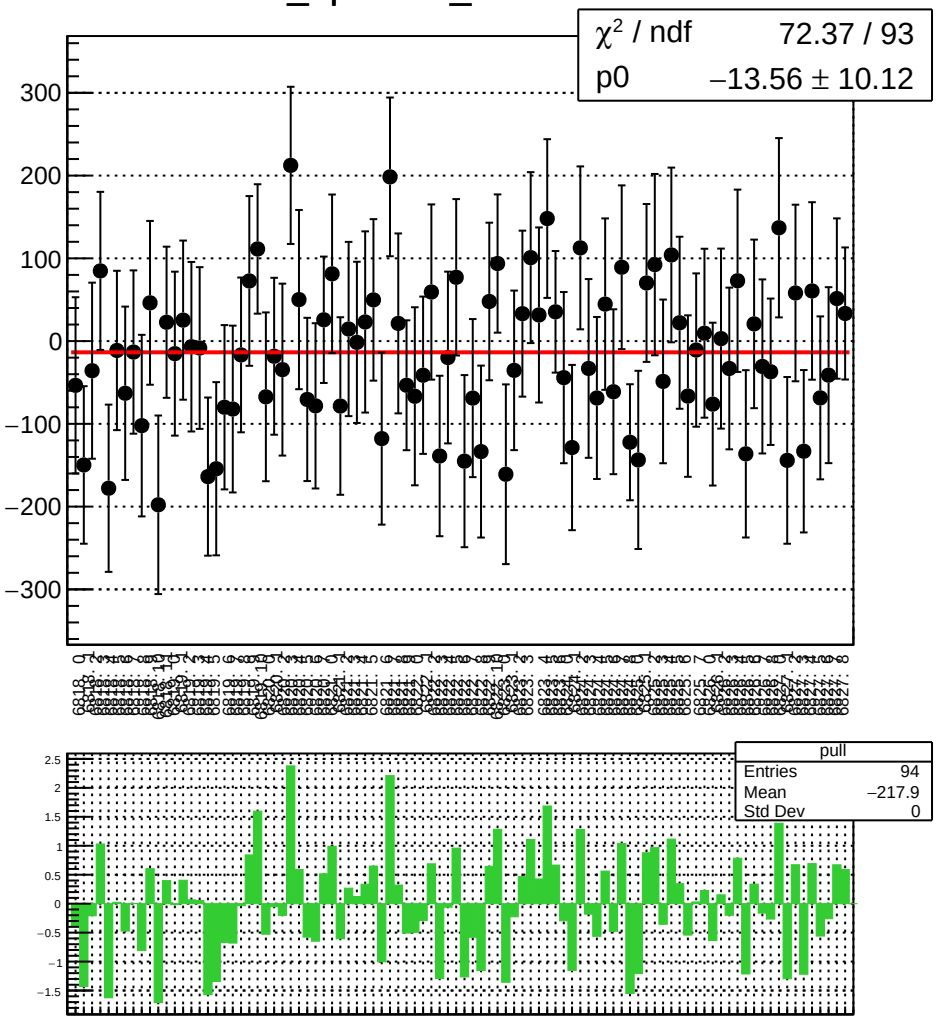

pull1D
Entries 94
Mean 0.9831
Std Dev 4.466
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

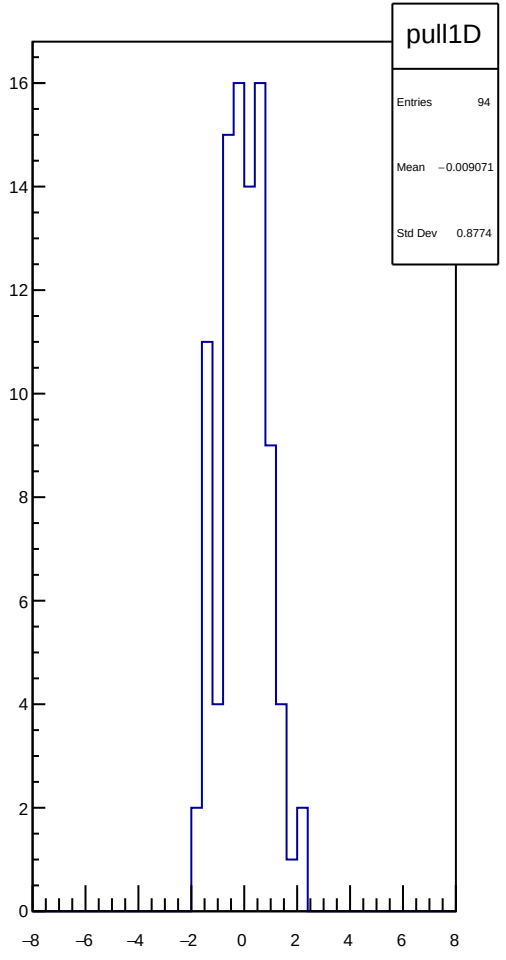

yield_bpm0r05X_rms vs run
χ² / ndf 6517 / 93
p0 0.08618 ± 6.444e–05
0.11
0.105
0.1
0.095
0.09
0.085
0.08

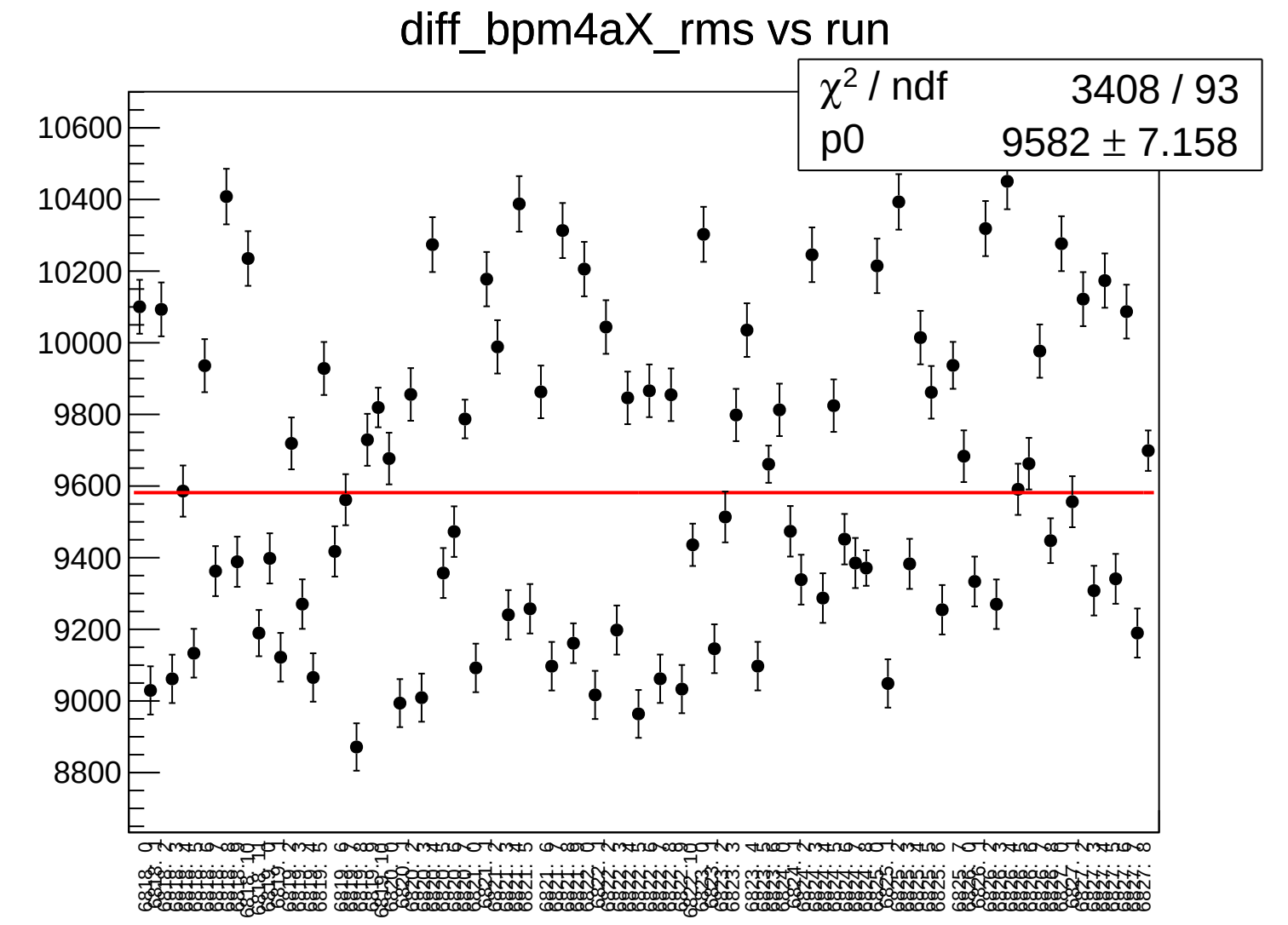

yield_bpm0r05Y_mean vs run
χ² / ndf 2.076e+06 / 93
p0 0.3158 ± 1.005e−05
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
0.28
pull
Entries 94
Mean −401.9
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

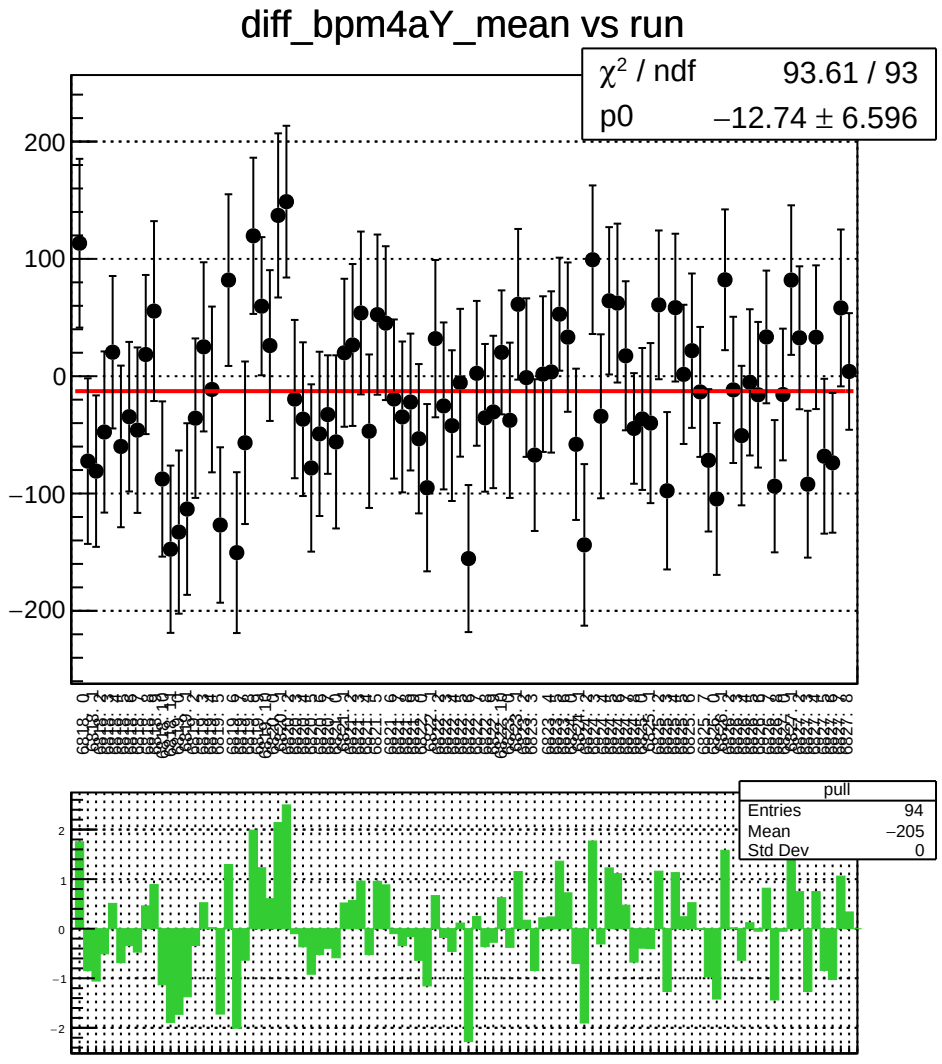

pull1D
Entries 94
Mean −2.842
Std Dev 1.966
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

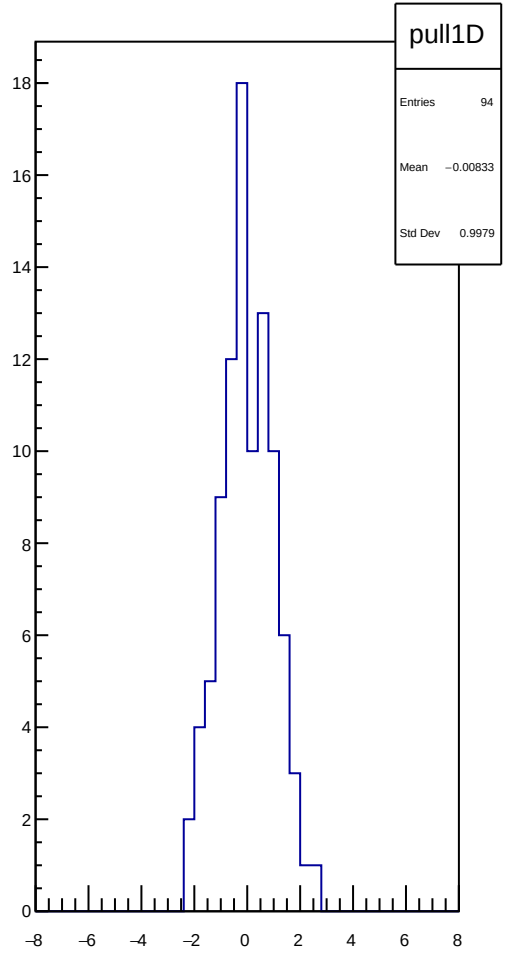

yield_bpm0r05Y_rms vs run
χ² / ndf 4.282e+04 / 93
p0 0.009409 ± 7.108e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

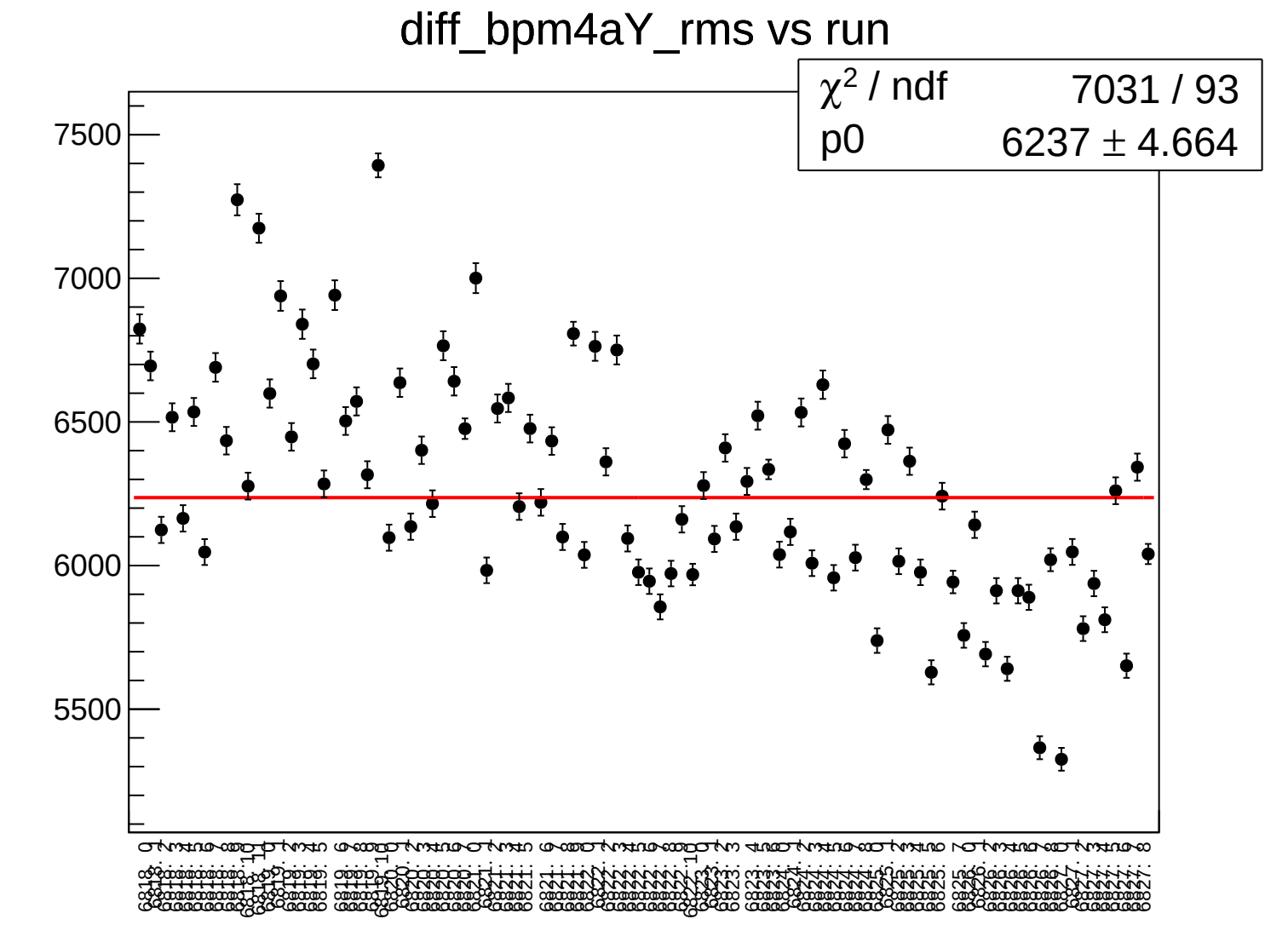

diff_bpm4aX_mean vs run
χ² / ndf 72.37 / 93
p0 −13.56 ± 10.12
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −217.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

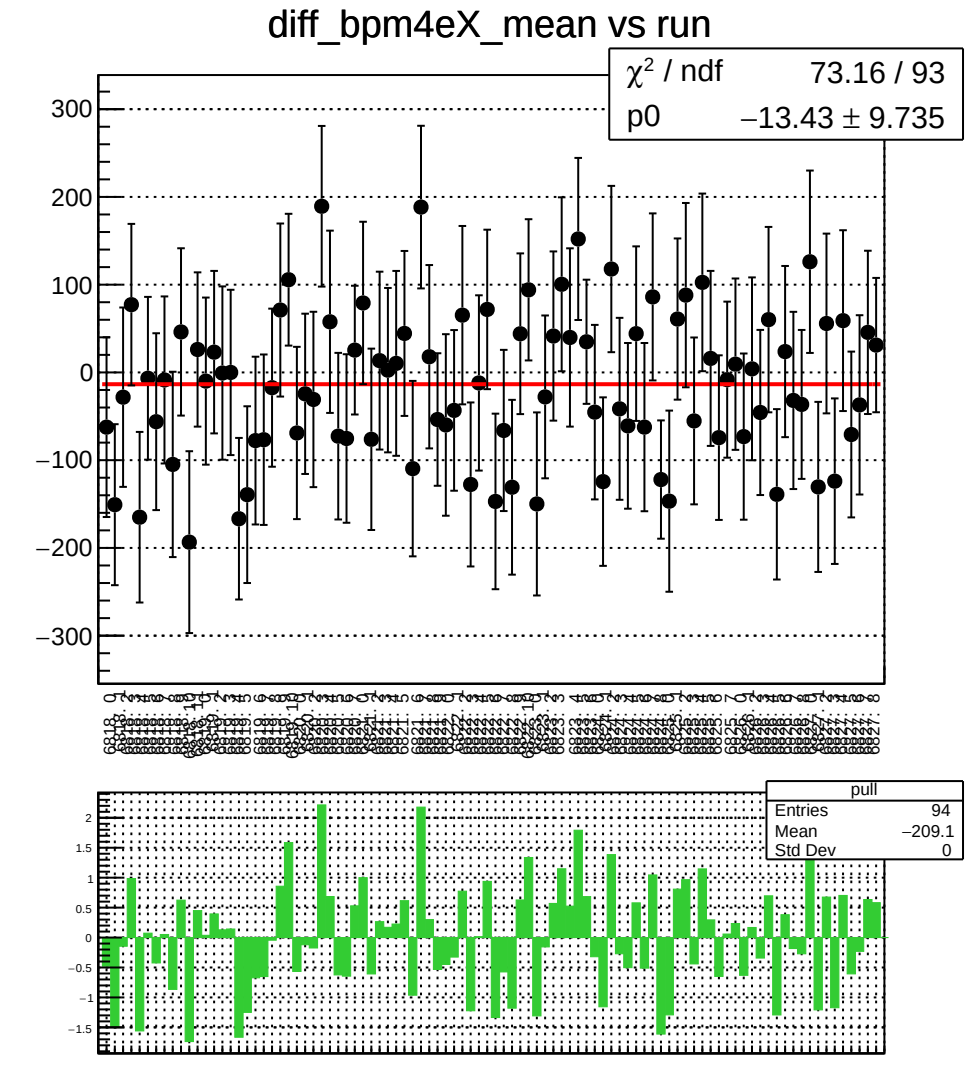

pull1D
Entries 94
Mean −0.009071
Std Dev 0.8774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

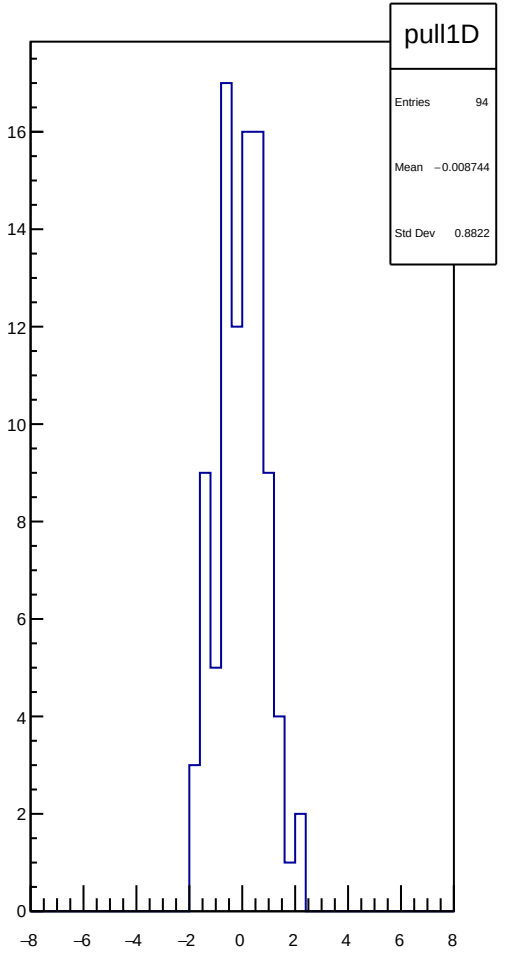

diff_bpm4aX_rms vs run
χ^2 / ndf 3408 / 93
p0 9582 ± 7.158
10600
10400
10200
10000
9800
9600
9400
9200
9000
8800

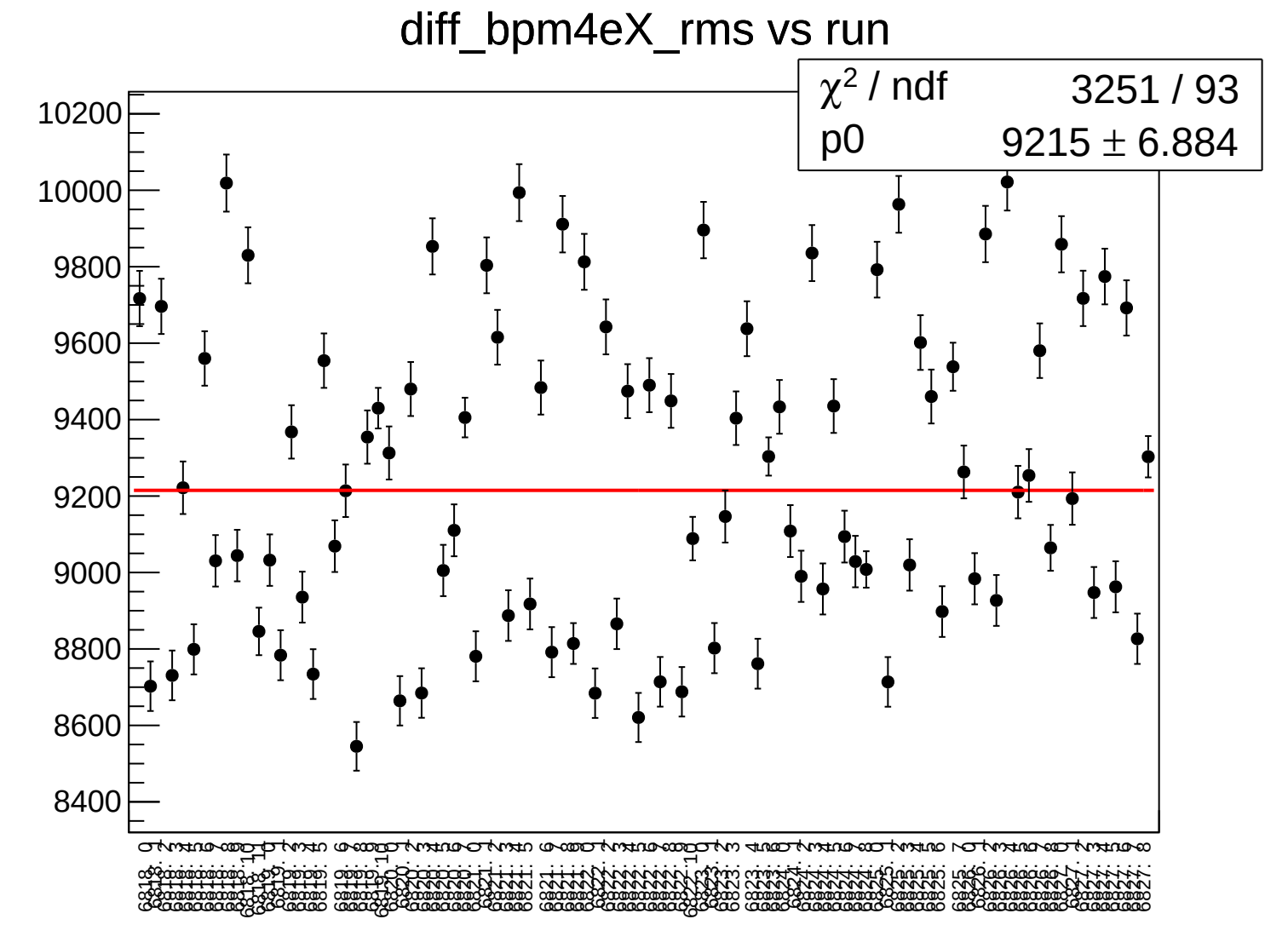

diff_bpm4aY_mean vs run
χ² / ndf 93.61 / 93
p0 −12.74 ± 6.596
200
100
0
−100
−200
pull
Entries 94
Mean −205
Std Dev 0
2
1
0
−1
−2

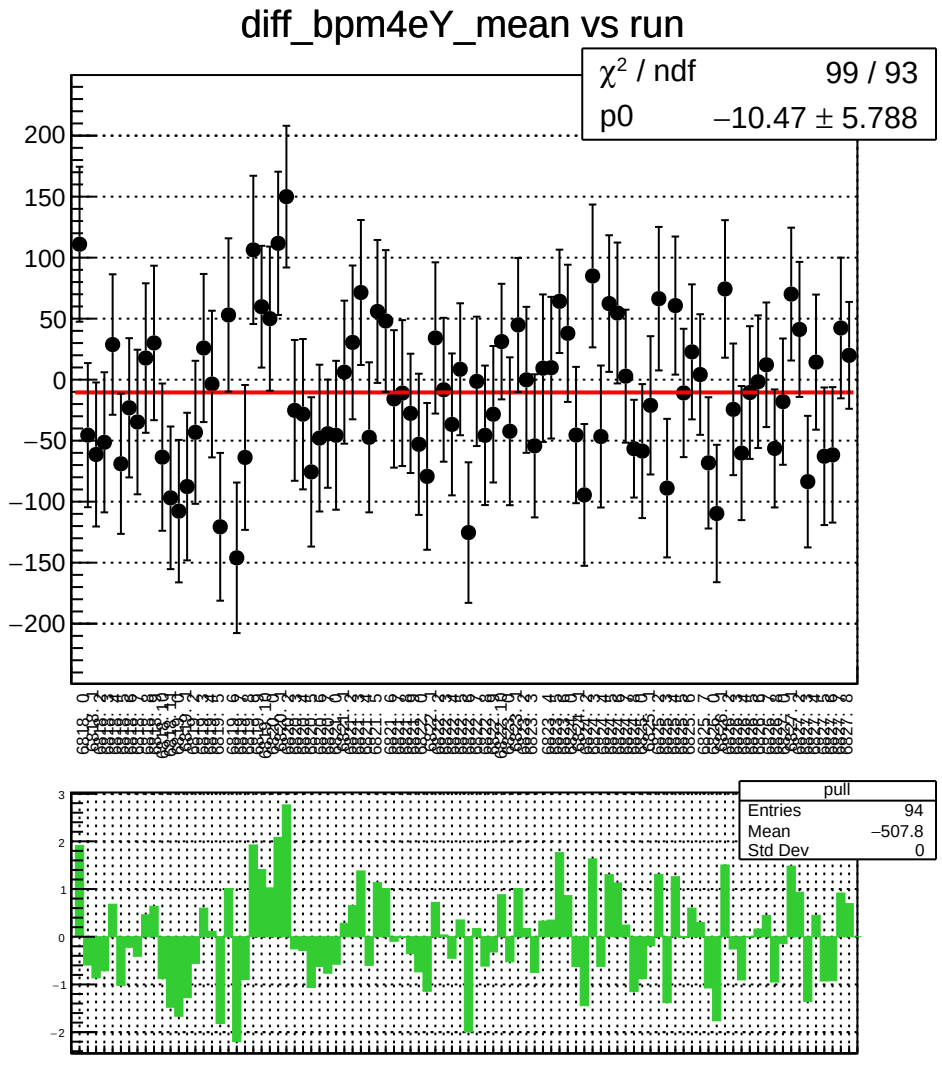

pull1D
Entries 94
Mean −0.00833
Std Dev 0.9979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

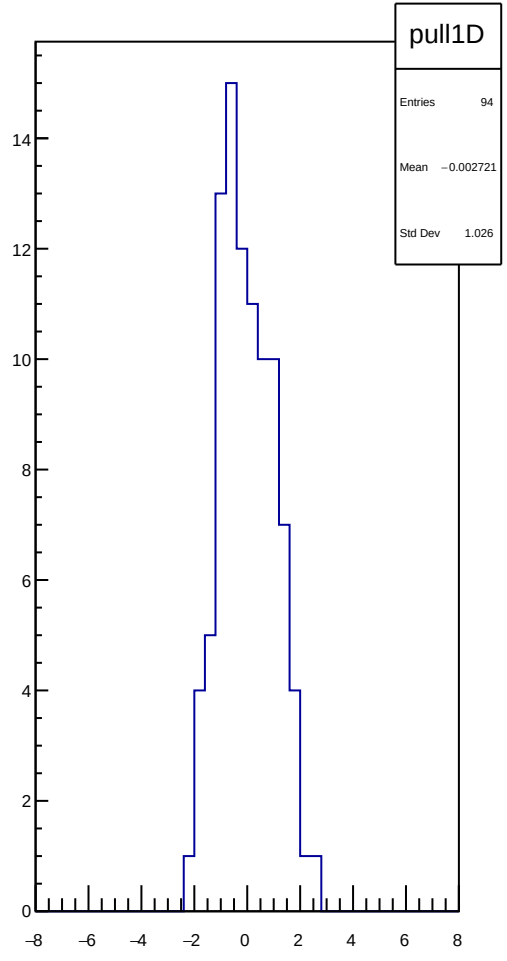

diff_bpm4aY_rms vs run
χ² / ndf 7031 / 93
p0 6237 ± 4.664
7500
7000
6500
6000
5500

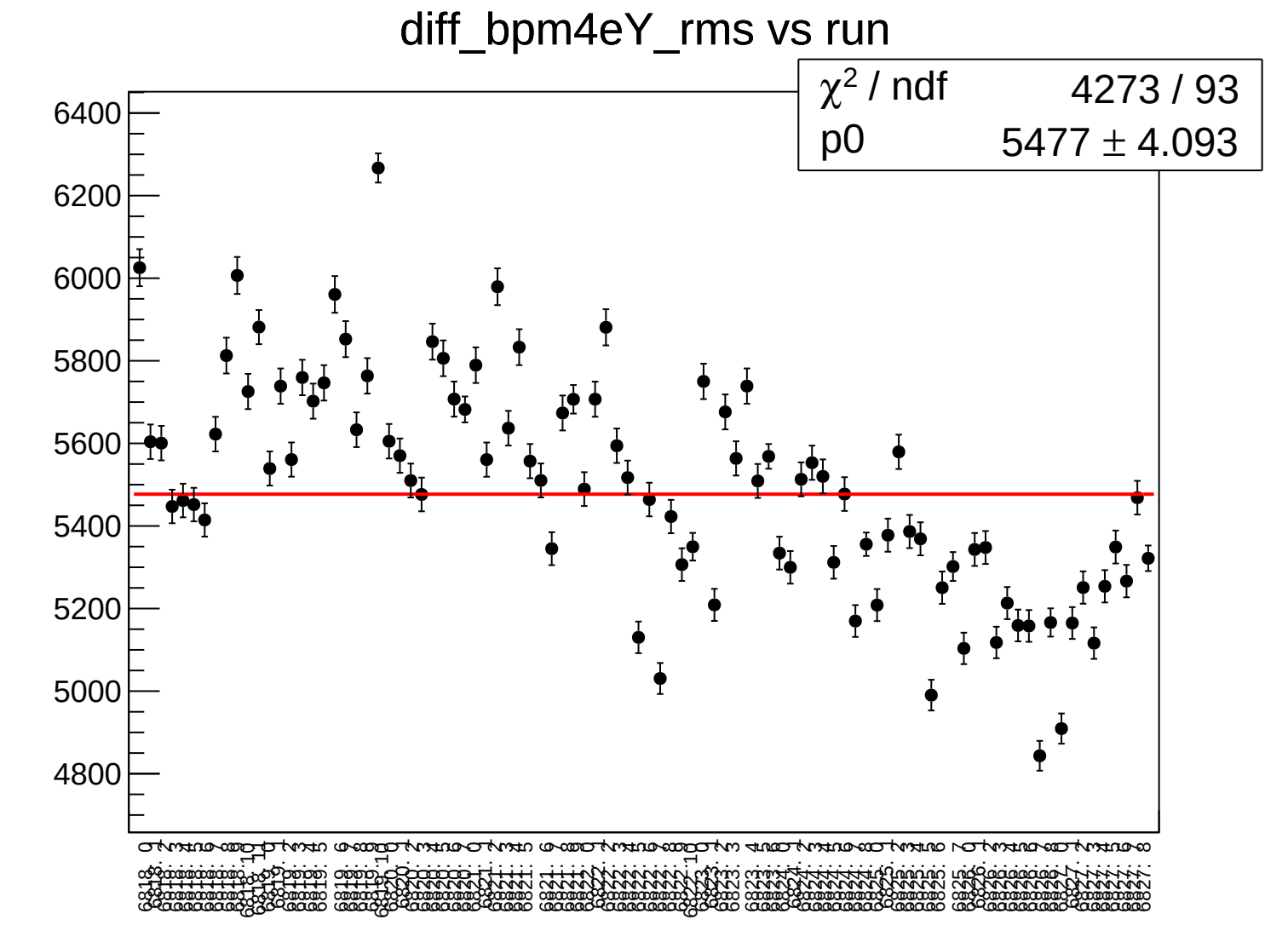

diff_bpm4eX_mean vs run
χ² / ndf 73.16 / 93
p0 −13.43 ± 9.735
pull
Entries 94
Mean −209.1
Std Dev 0

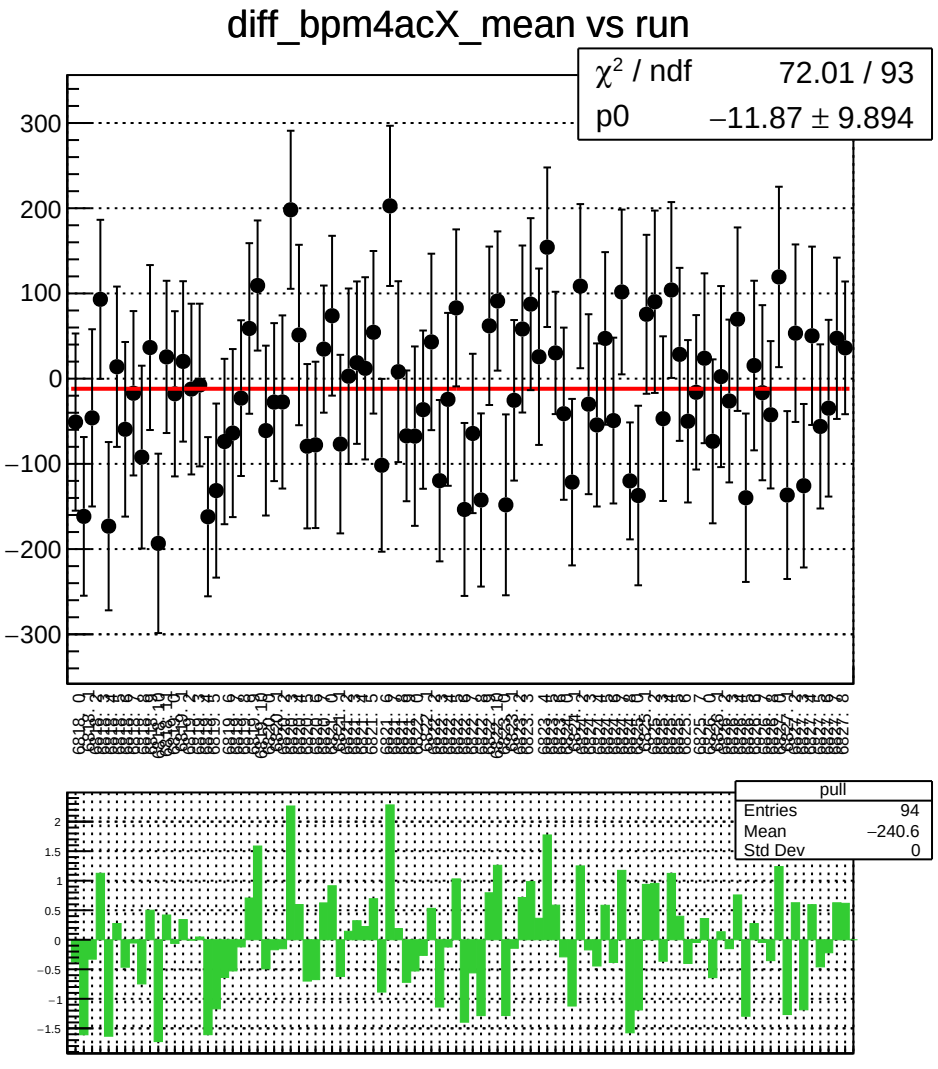

pull1D
Entries 94
Mean −0.008744
Std Dev 0.8822

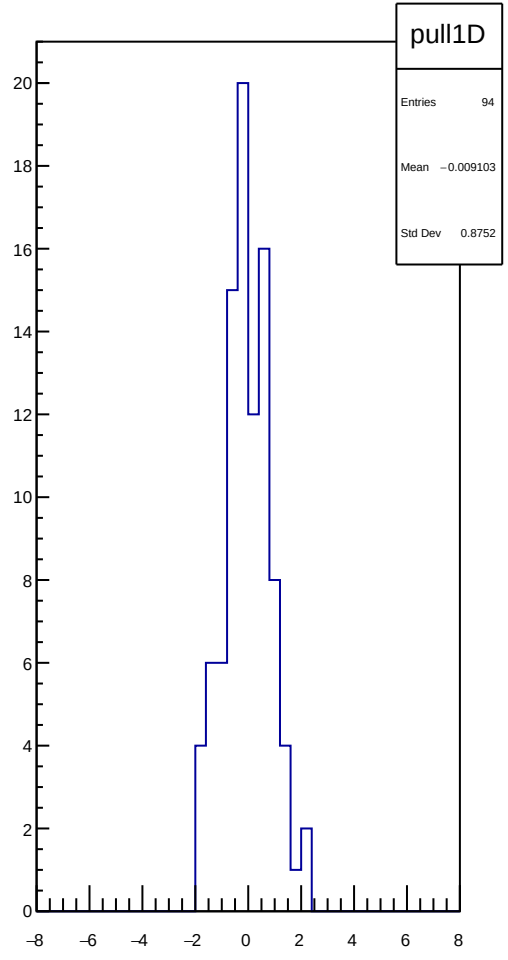

diff_bpm4eX_rms vs run
χ² / ndf 3251 / 93
p0 9215 ± 6.884
10200
10000
9800
9600
9400
9200
9000
8800
8600
8400

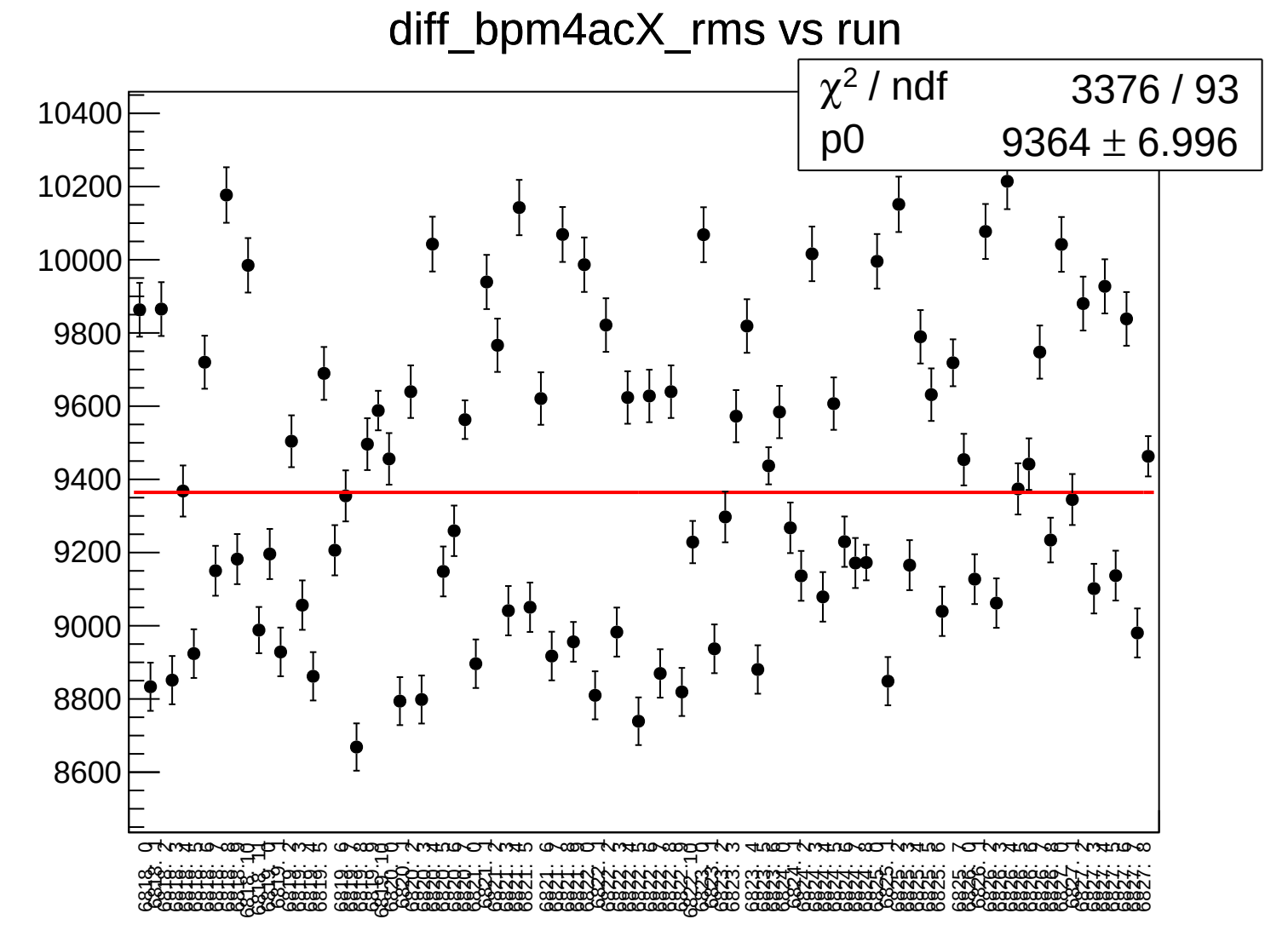

diff_bpm4eY_mean vs run
χ² / ndf 99 / 93
p0 −10.47 ± 5.788
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −507.8
Std Dev 0
3
2
1
0
−1
−2

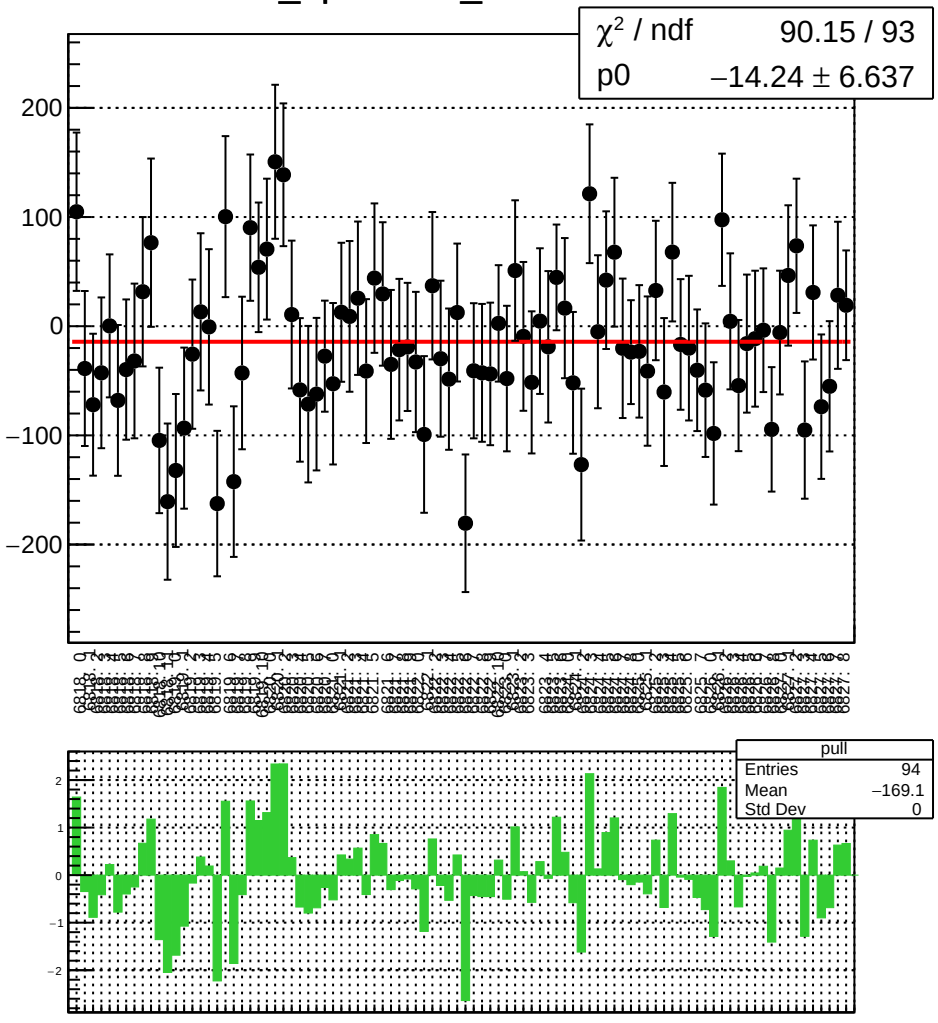

pull1D
Entries 94
Mean −0.002721
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

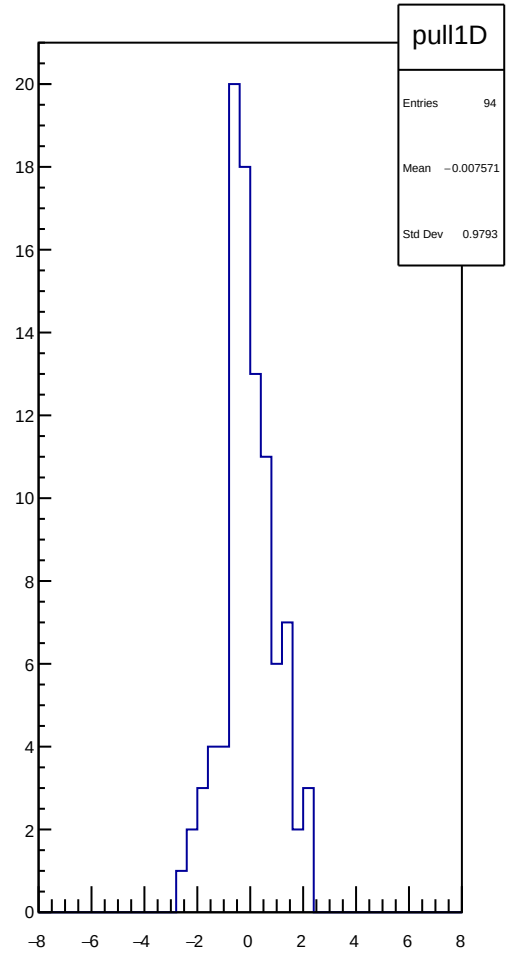

diff_bpm4eY_rms vs run
χ^2 / ndf 4273 / 93
p0 5477 ± 4.093
6400
6200
6000
5800
5600
5400
5200
5000
4800

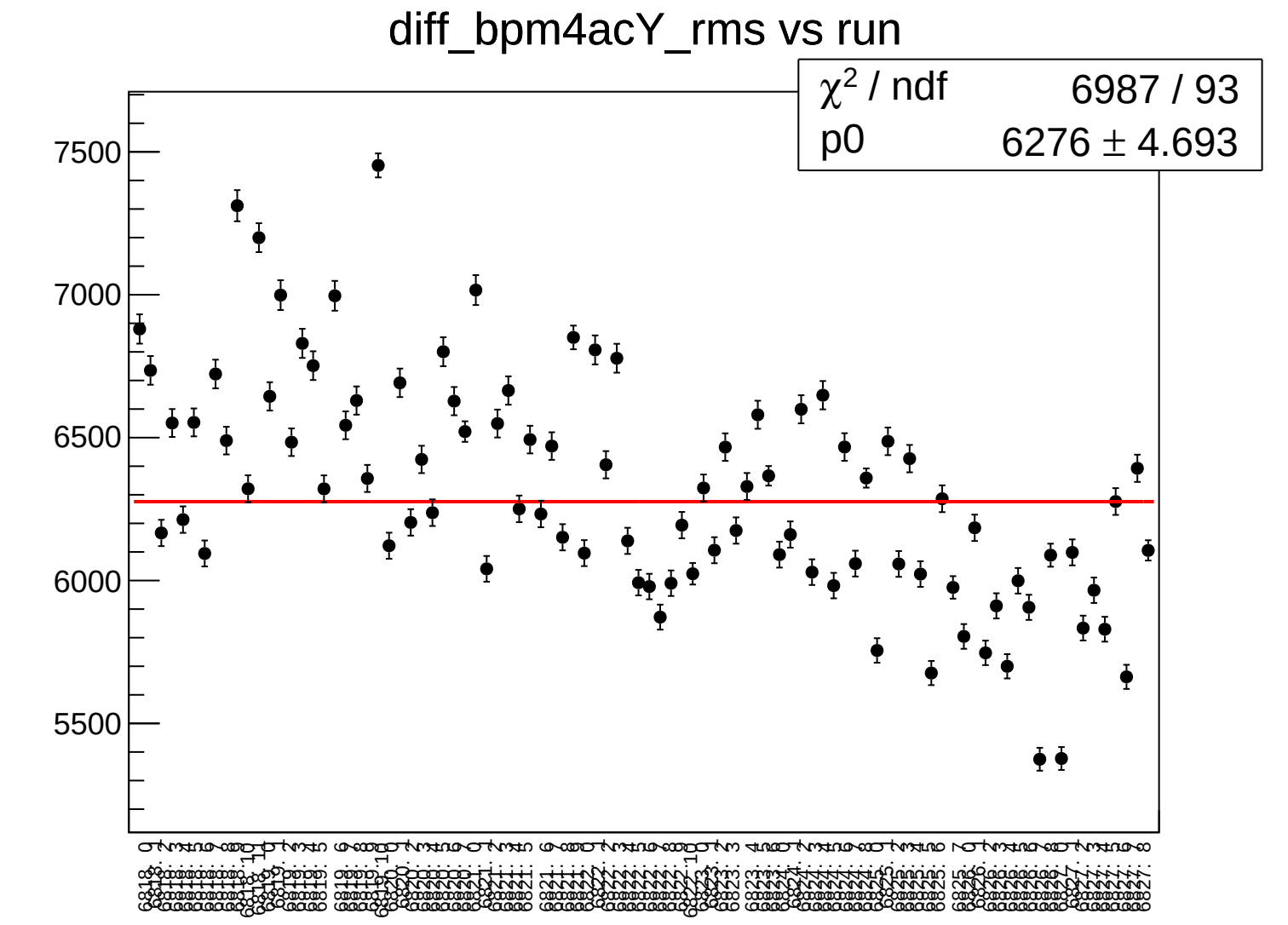

diff_bpm4acX_mean vs run
χ² / ndf 72.01 / 93
p0 −11.87 ± 9.894
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −240.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

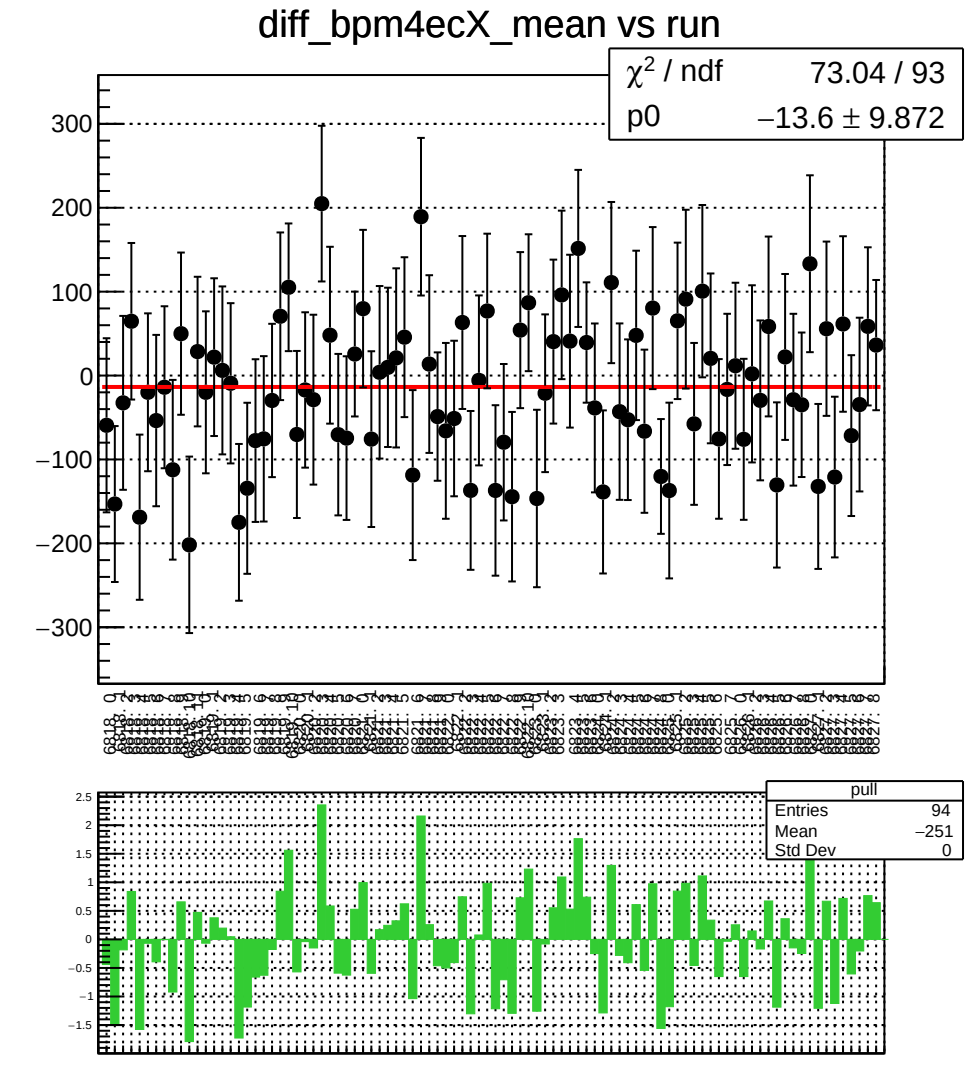

pull1D
Entries 94
Mean −0.009103
Std Dev 0.8752
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

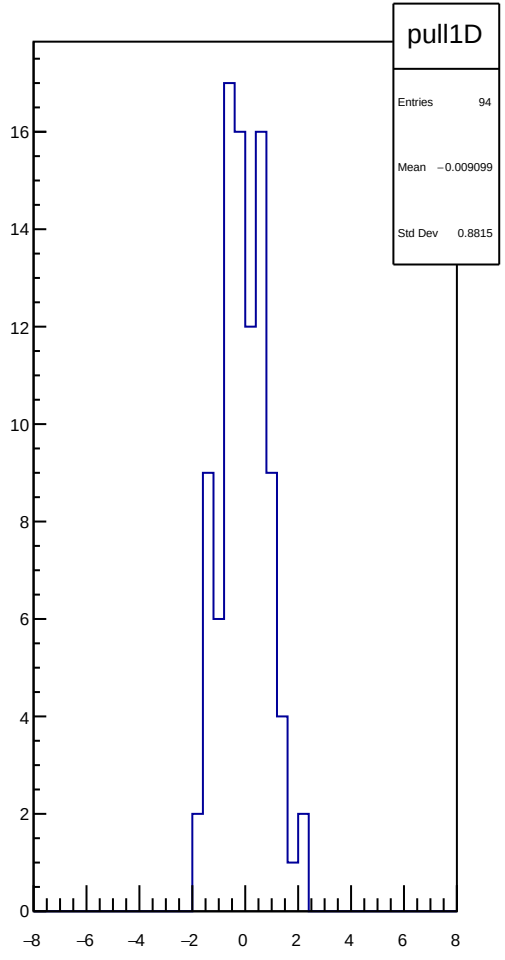

diff_bpm4acX_rms vs run
χ² / ndf 3376 / 93
p0 9364 ± 6.996
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

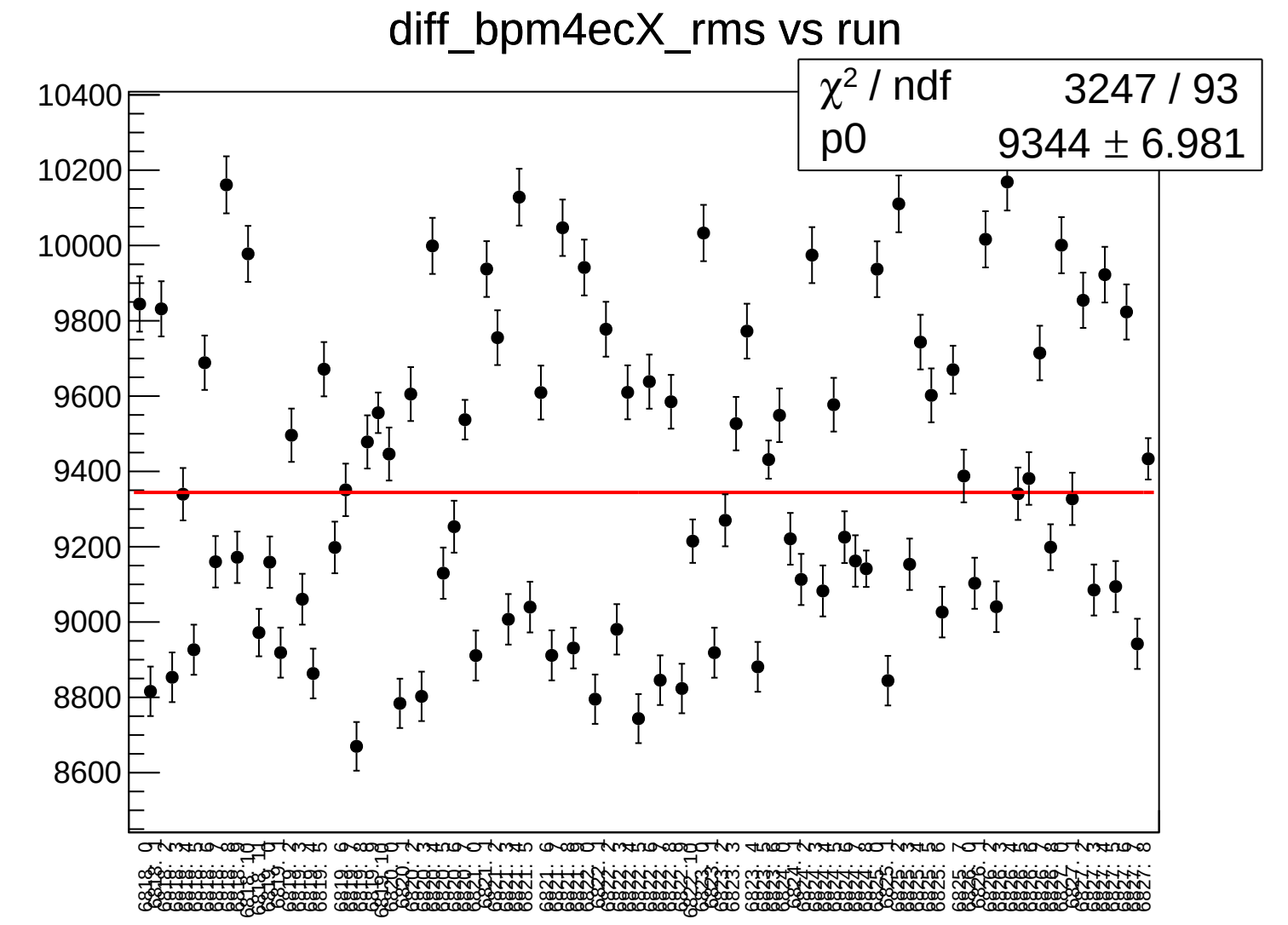

diff_bpm4acY_mean vs run
χ² / ndf 90.15 / 93
p0 −14.24 ± 6.637
200
100
0
−100
−200
pull
Entries 94
Mean −169.1
Std Dev 0
2
1
0
−1
−2

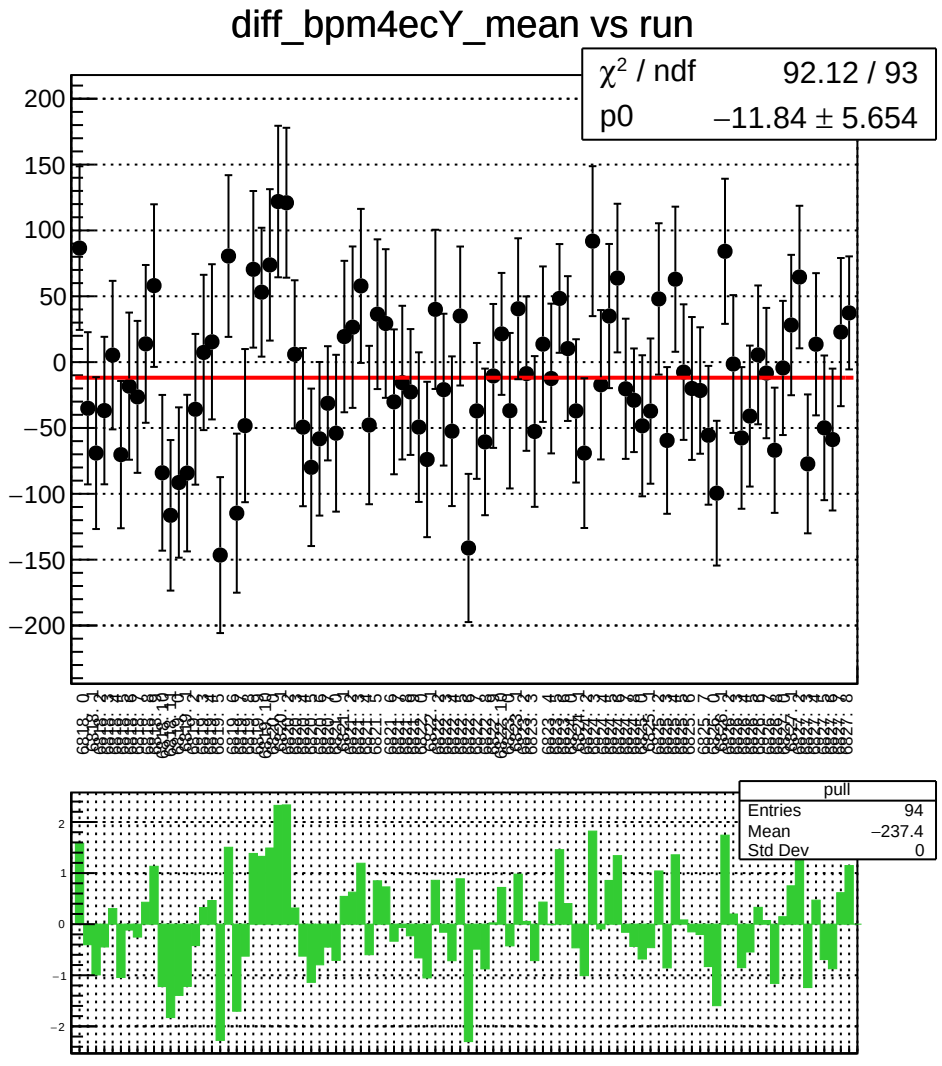

pull1D
Entries 94
Mean −0.007571
Std Dev 0.9793
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

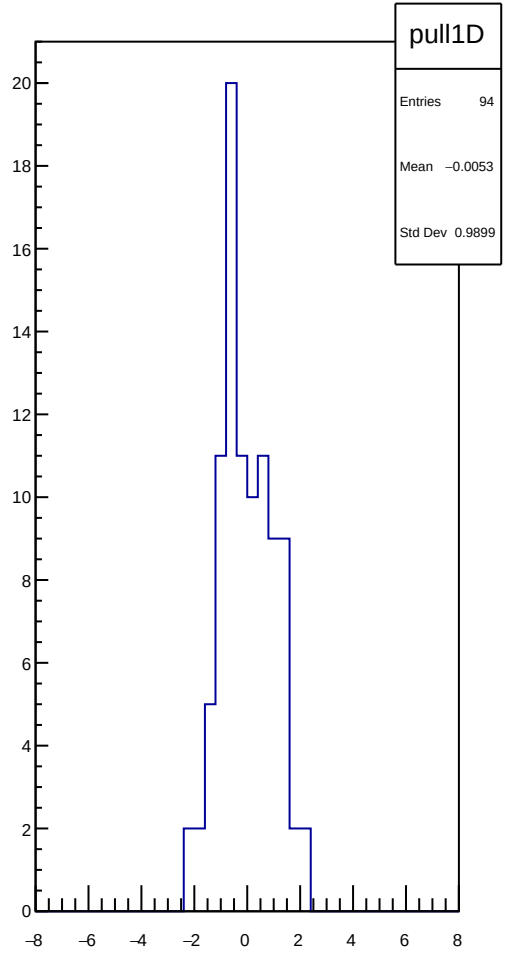

diff_bpm4acY_rms vs run
χ^2 / ndf 6987 / 93
p0 6276 ± 4.693
7500
7000
6500
6000
5500

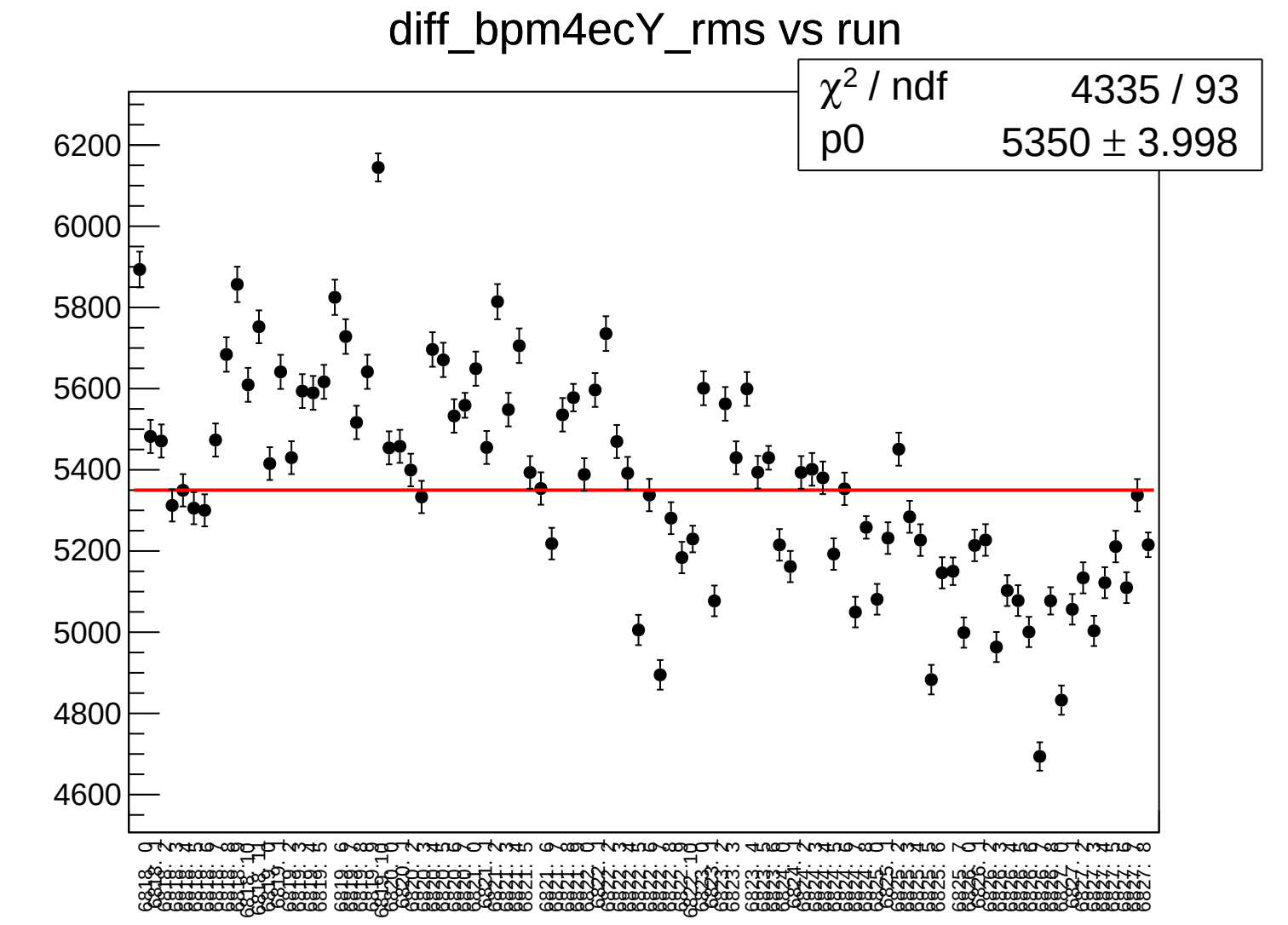

diff_bpm4ecX_mean vs run
χ² / ndf 73.04 / 93
p0 −13.6 ± 9.872
300
200
100
0
−100
−200
−300
pull
Entries 94
Mean −251
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

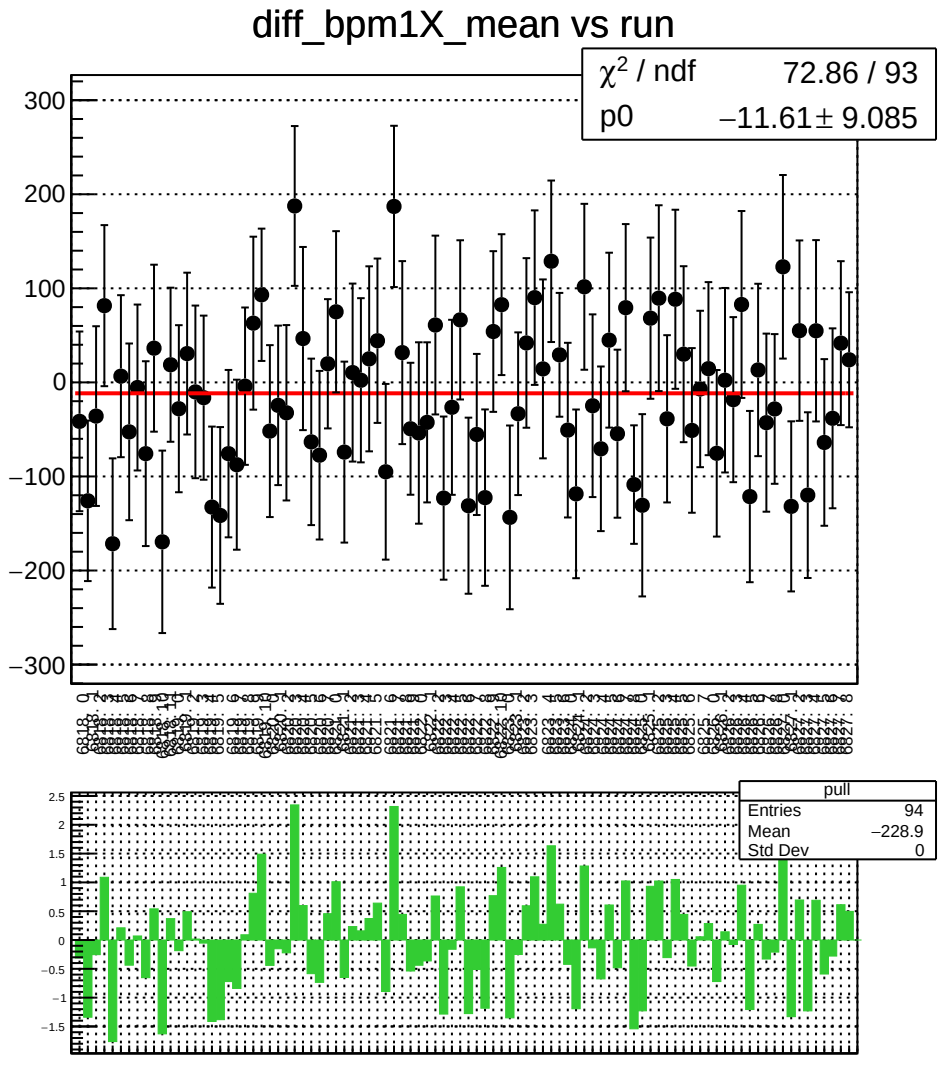

pull1D
Entries 94
Mean −0.009099
Std Dev 0.8815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

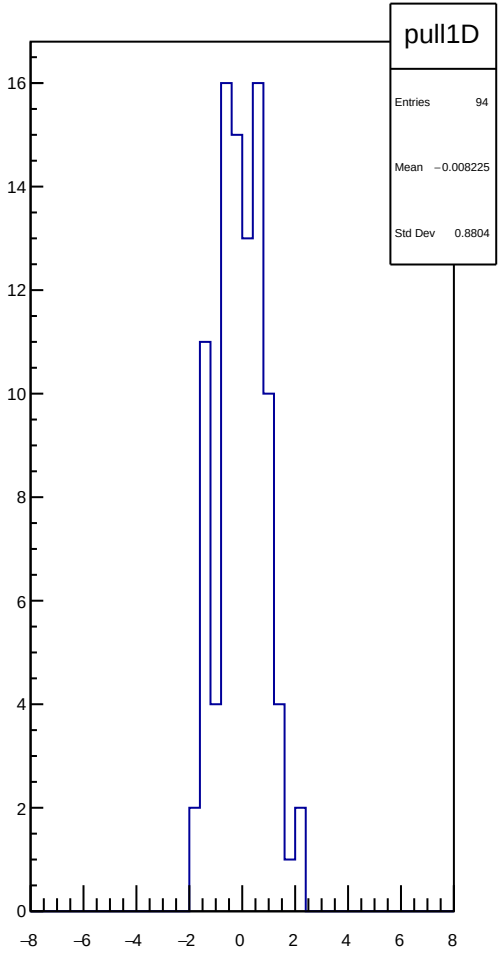

diff_bpm4ecX_rms vs run
χ² / ndf 3247 / 93
p0 9344 ± 6.981
10400
10200
10000
9800
9600
9400
9200
9000
8800
8600

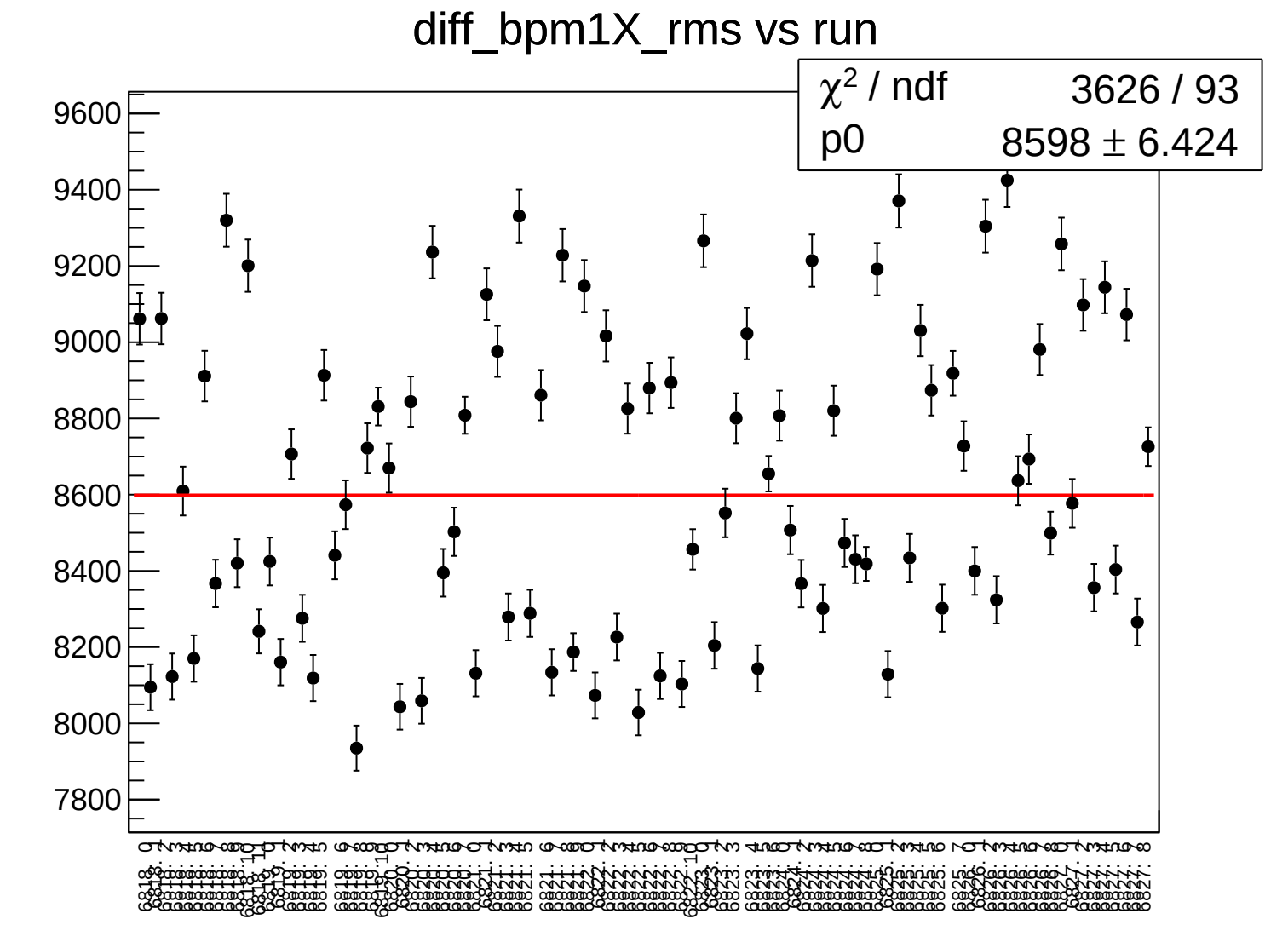

diff_bpm4ecY_mean vs run
χ² / ndf 92.12 / 93
p0 −11.84 ± 5.654
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 94
Mean −237.4
Std Dev 0
2
1
0
−1
−2

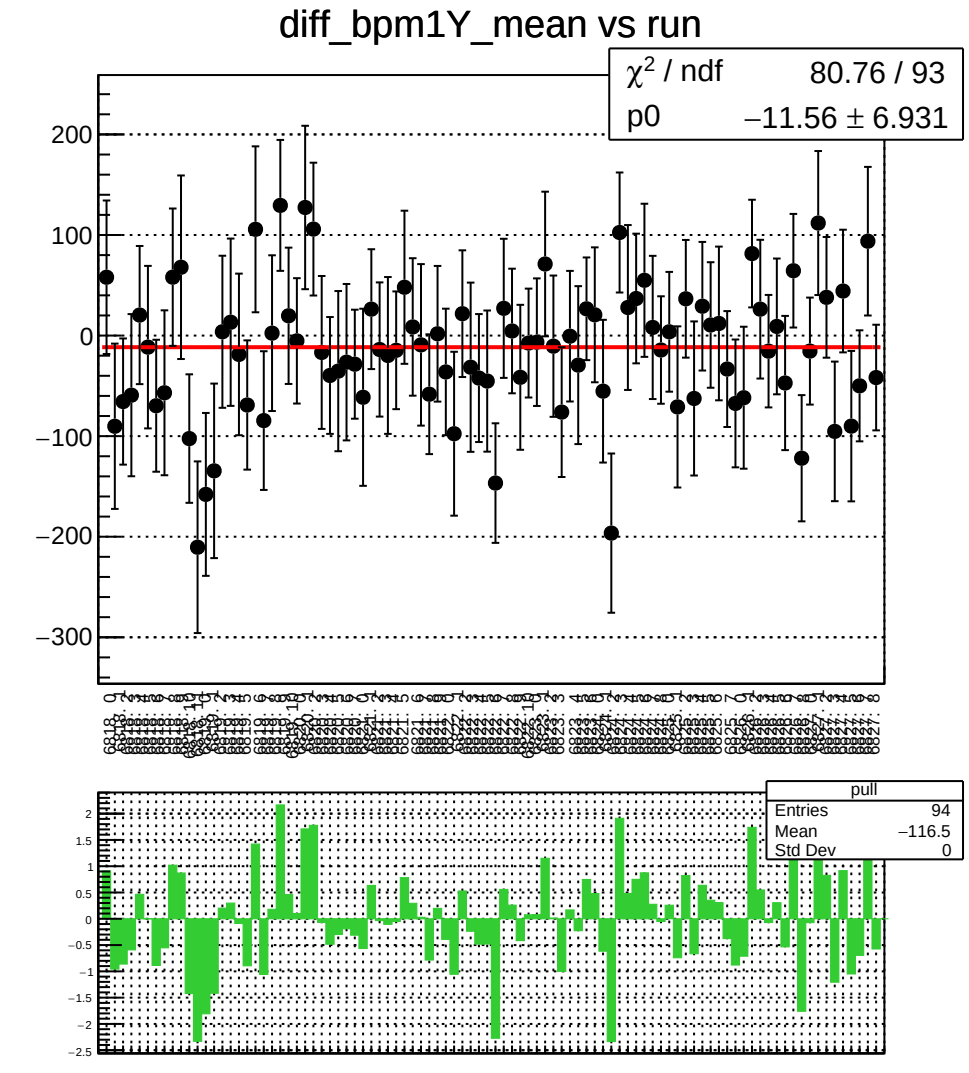

pull1D
Entries 94
Mean −0.0053
Std Dev 0.9899
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

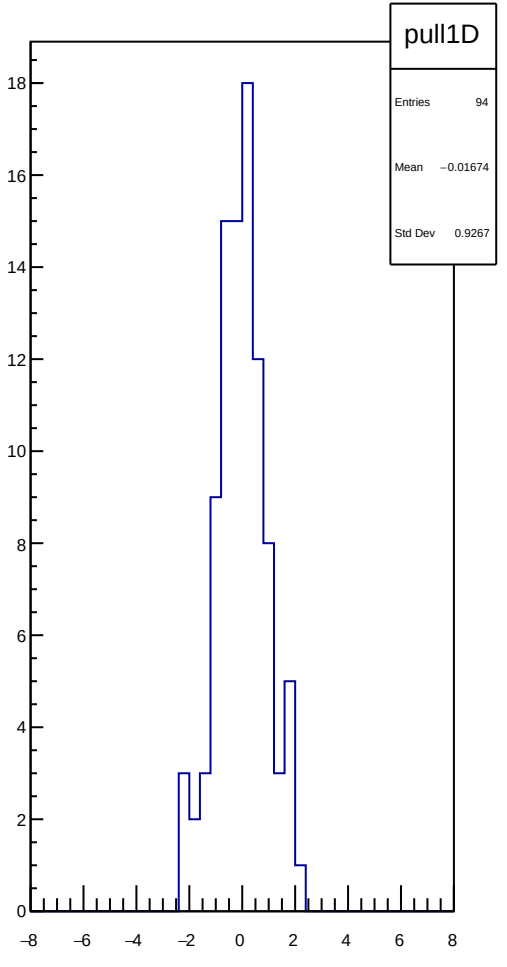

diff_bpm4ecY_rms vs run
χ² / ndf 4335 / 93
p0 5350 ± 3.998
6200
6000
5800
5600
5400
5200
5000
4800
4600

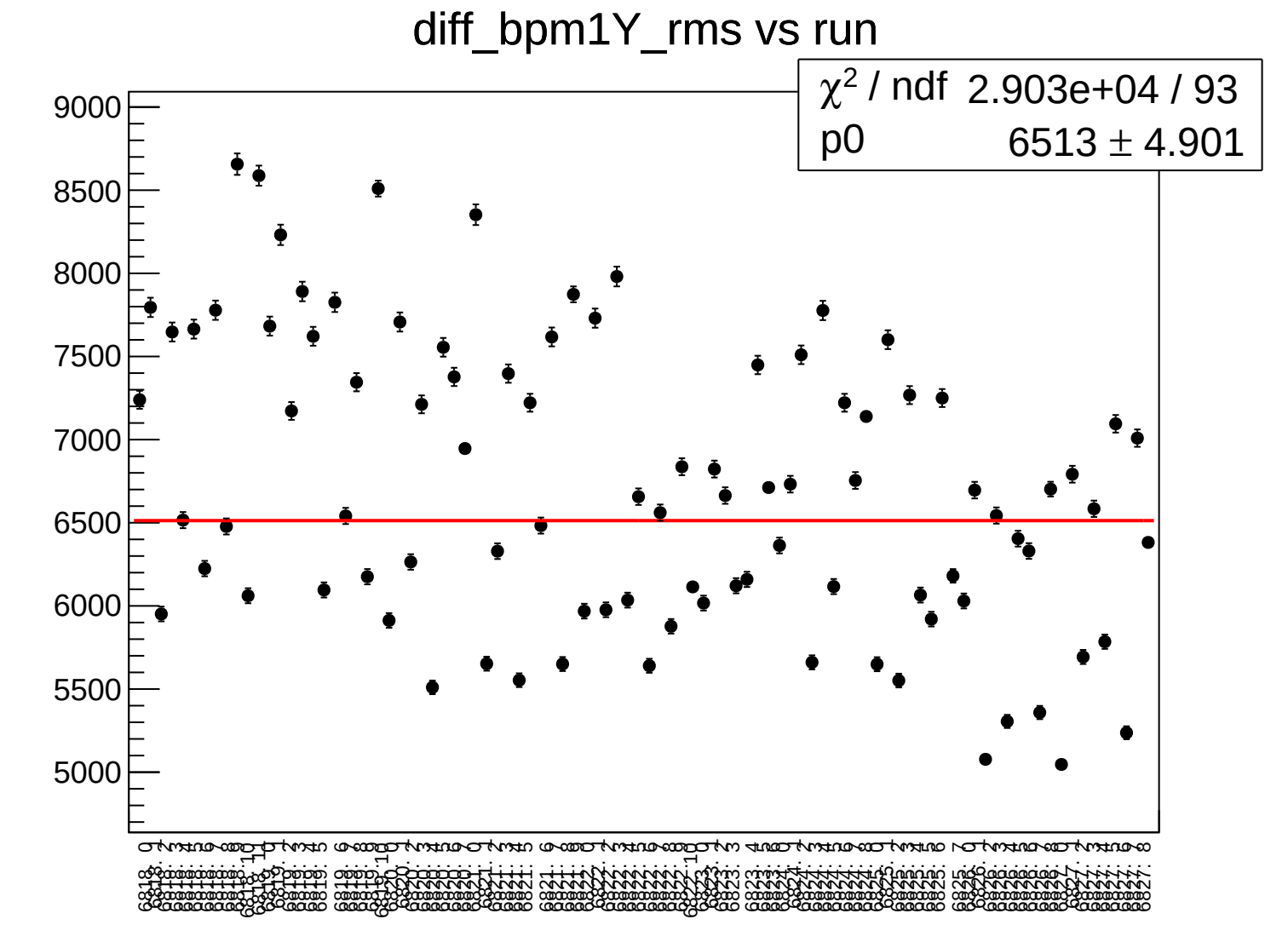

diff_bpm1X_mean vs run
χ² / ndf 72.86 / 93
p0 −11.61 ± 9.085
pull
Entries 94
Mean −228.9
Std Dev 0

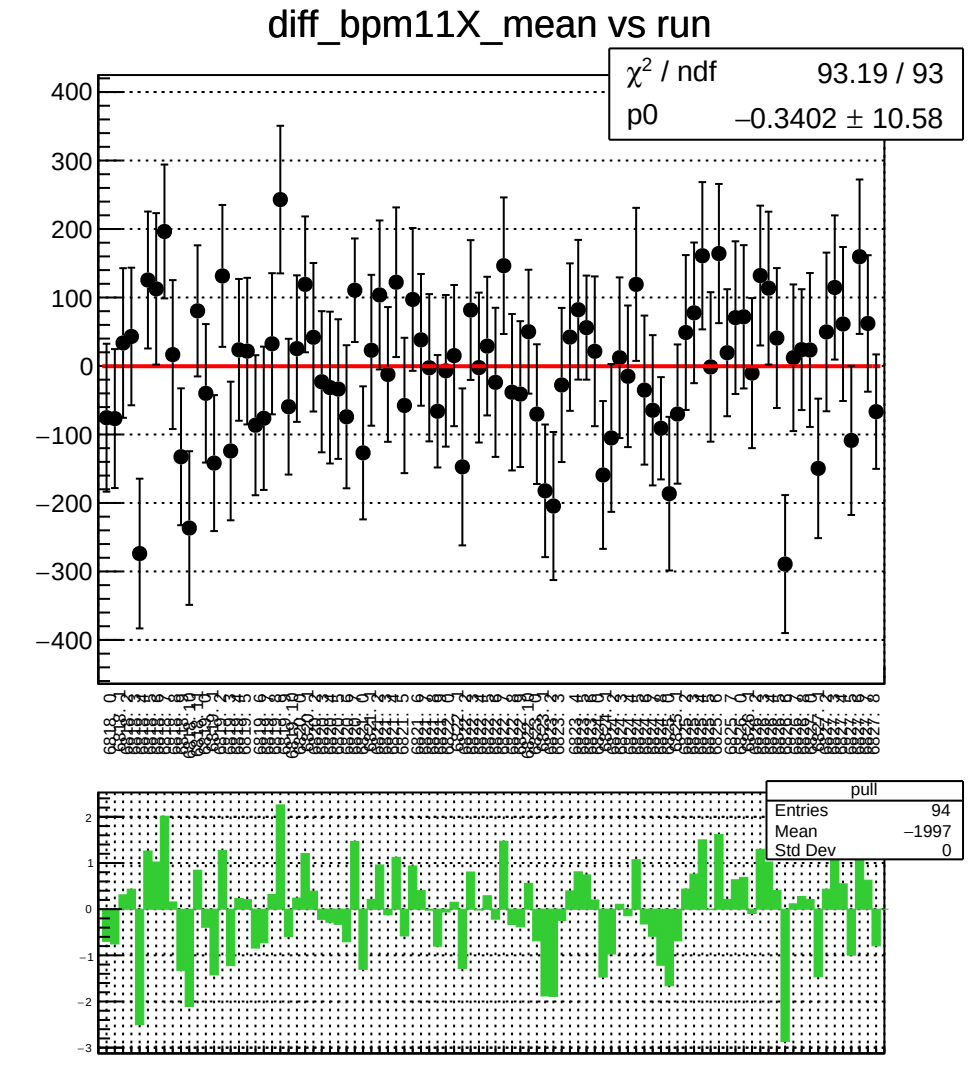

pull1D
Entries 94
Mean −0.008225
Std Dev 0.8804

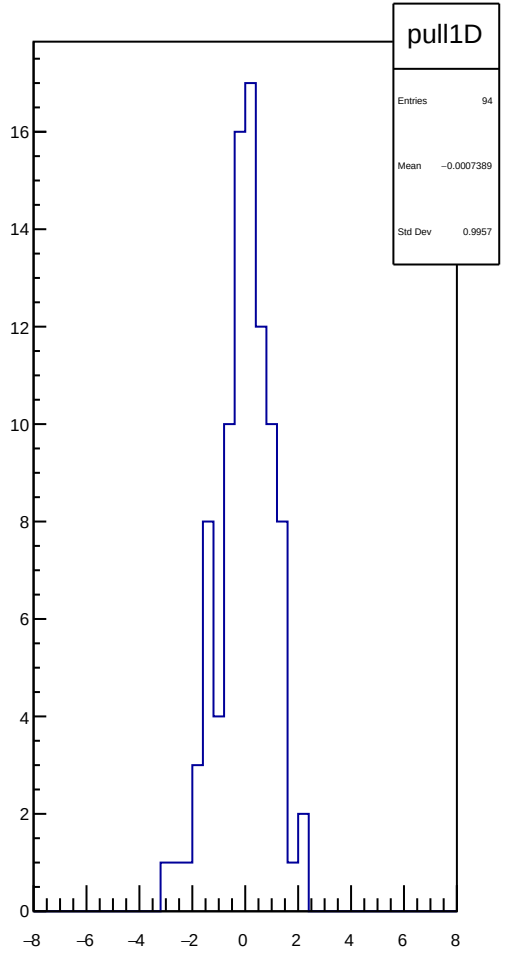

diff_bpm1X_rms vs run
χ² / ndf 3626 / 93
p0 8598 ± 6.424
9600
9400
9200
9000
8800
8600
8400
8200
8000
7800

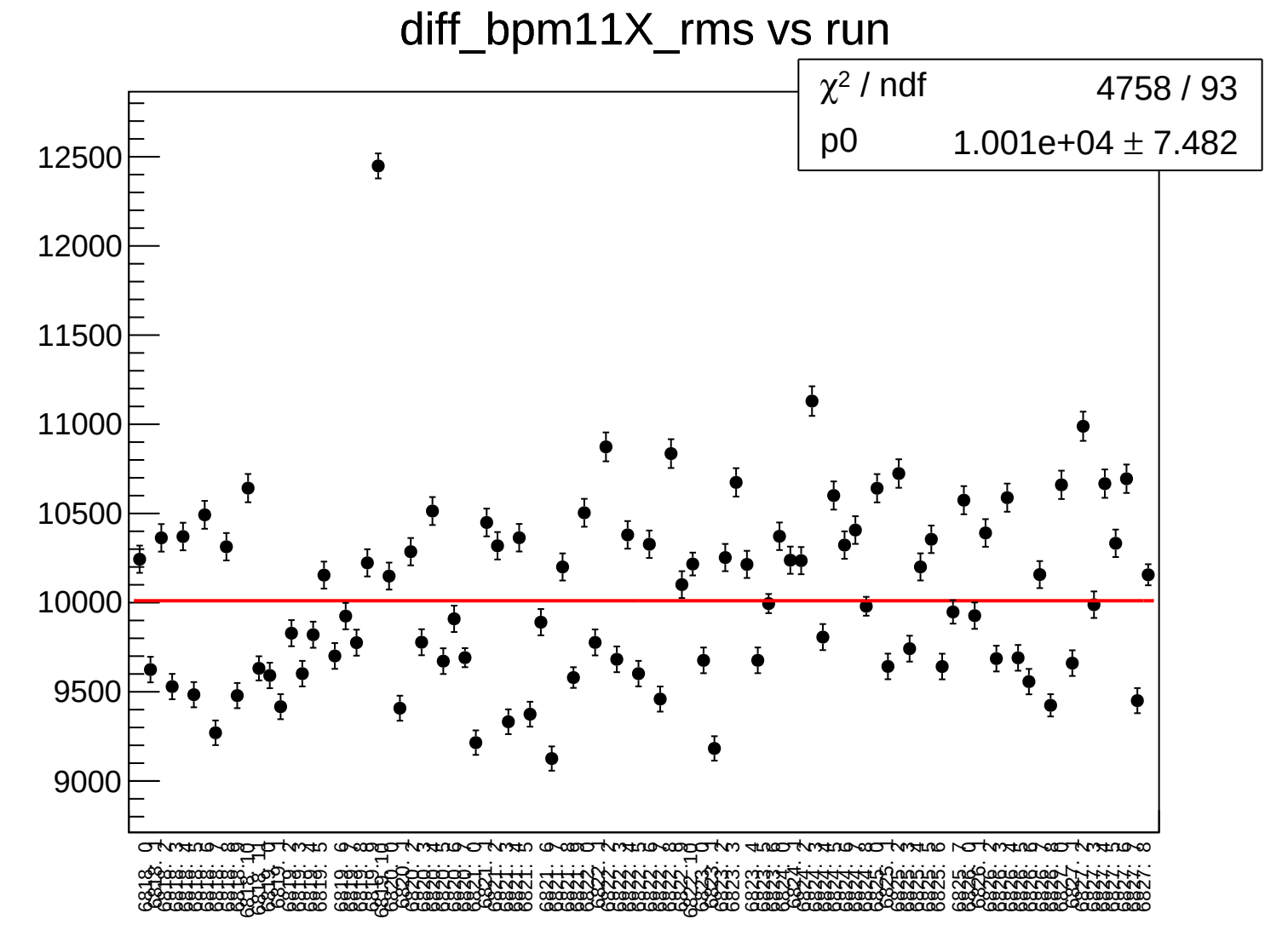

diff_bpm1Y_mean vs run
χ² / ndf 80.76 / 93
p0 −11.56 ± 6.931
200
100
0
−100
−200
−300
pull
Entries 94
Mean −116.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

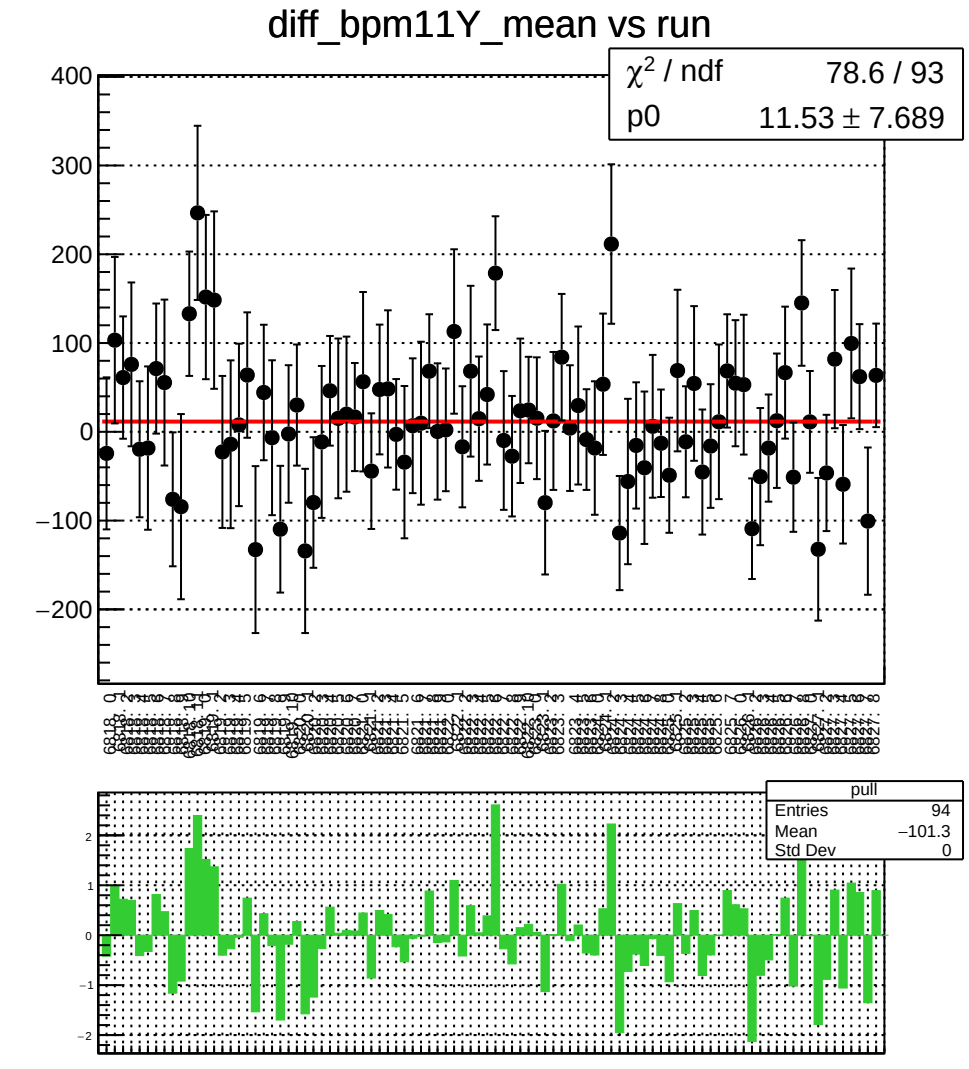

pull1D
Entries 94
Mean −0.01674
Std Dev 0.9267
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

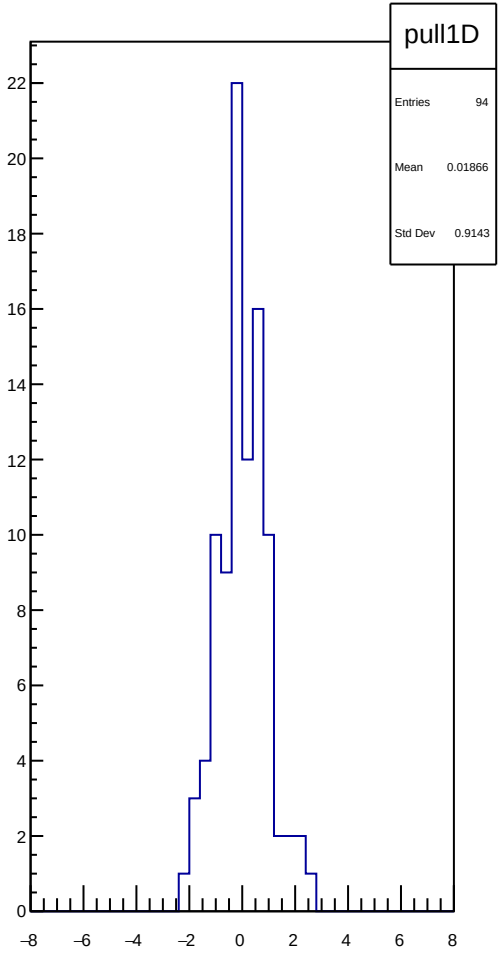

diff_bpm1Y_rms vs run
χ² / ndf 2.903e+04 / 93
p0 6513 ± 4.901
9000
8500
8000
7500
7000
6500
6000
5500
5000

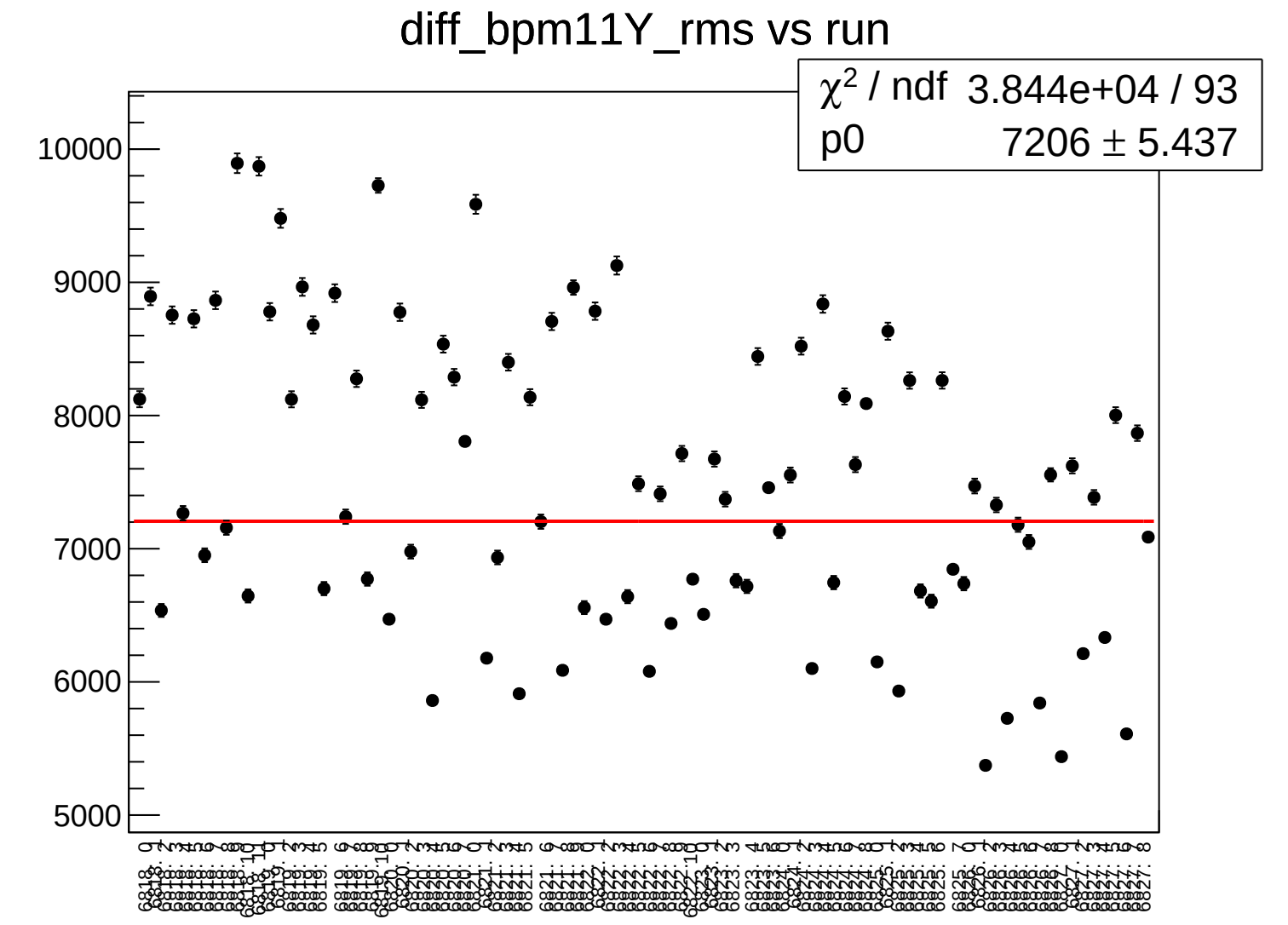

diff_bpm11X_mean vs run
χ² / ndf 93.19 / 93
p0 −0.3402 ± 10.58
pull
Entries 94
Mean −1997
Std Dev 0

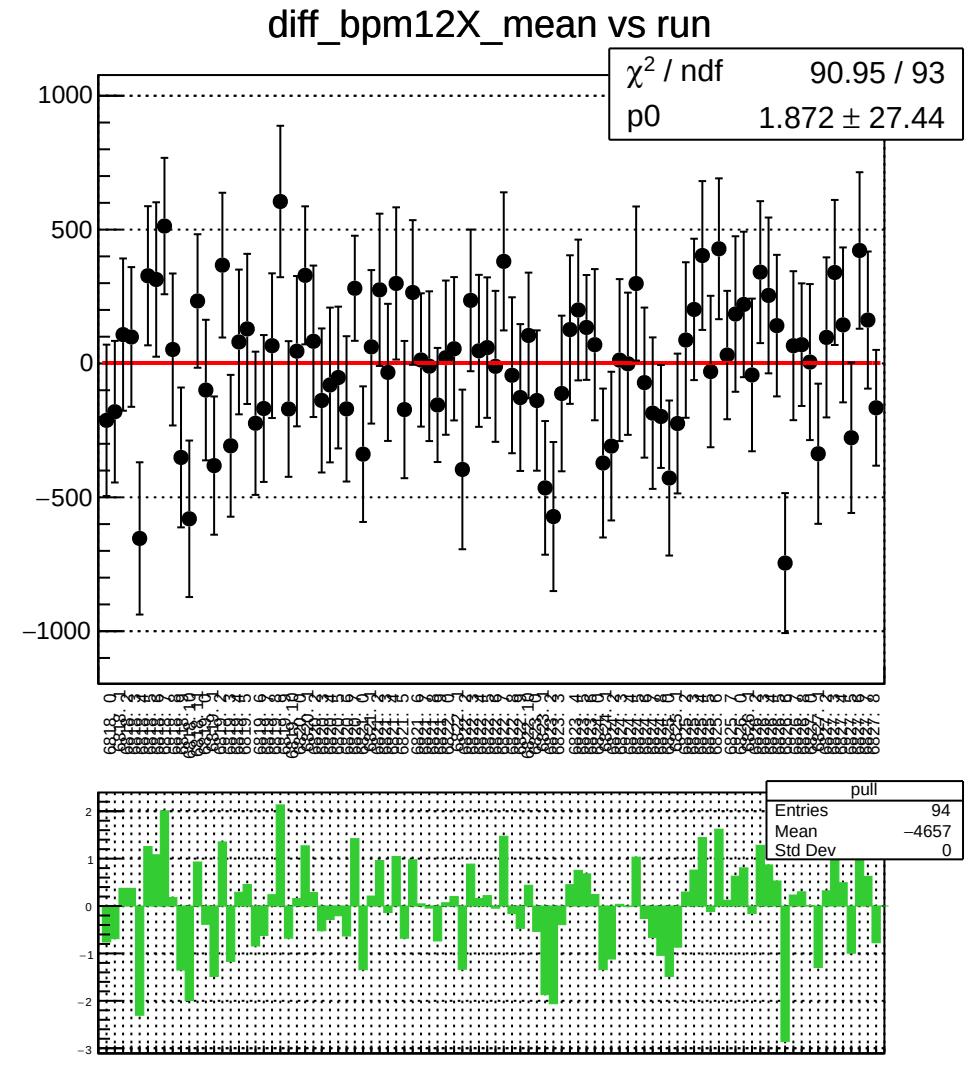

pull1D
Entries 94
Mean −0.0007389
Std Dev 0.9957

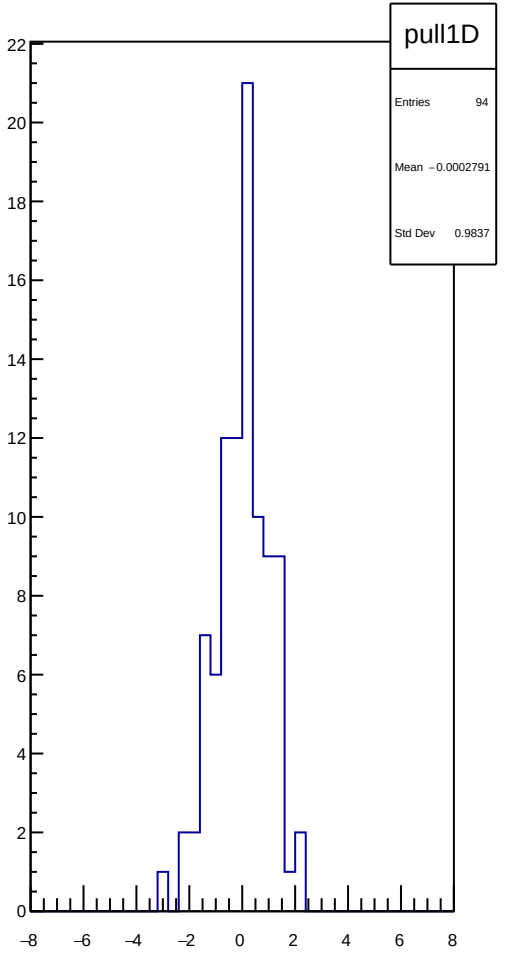

diff_bpm11X_rms vs run
χ² / ndf 4758 / 93
p0 1.001e+04 ± 7.482
12500
12000
11500
11000
10500
10000
9500
9000

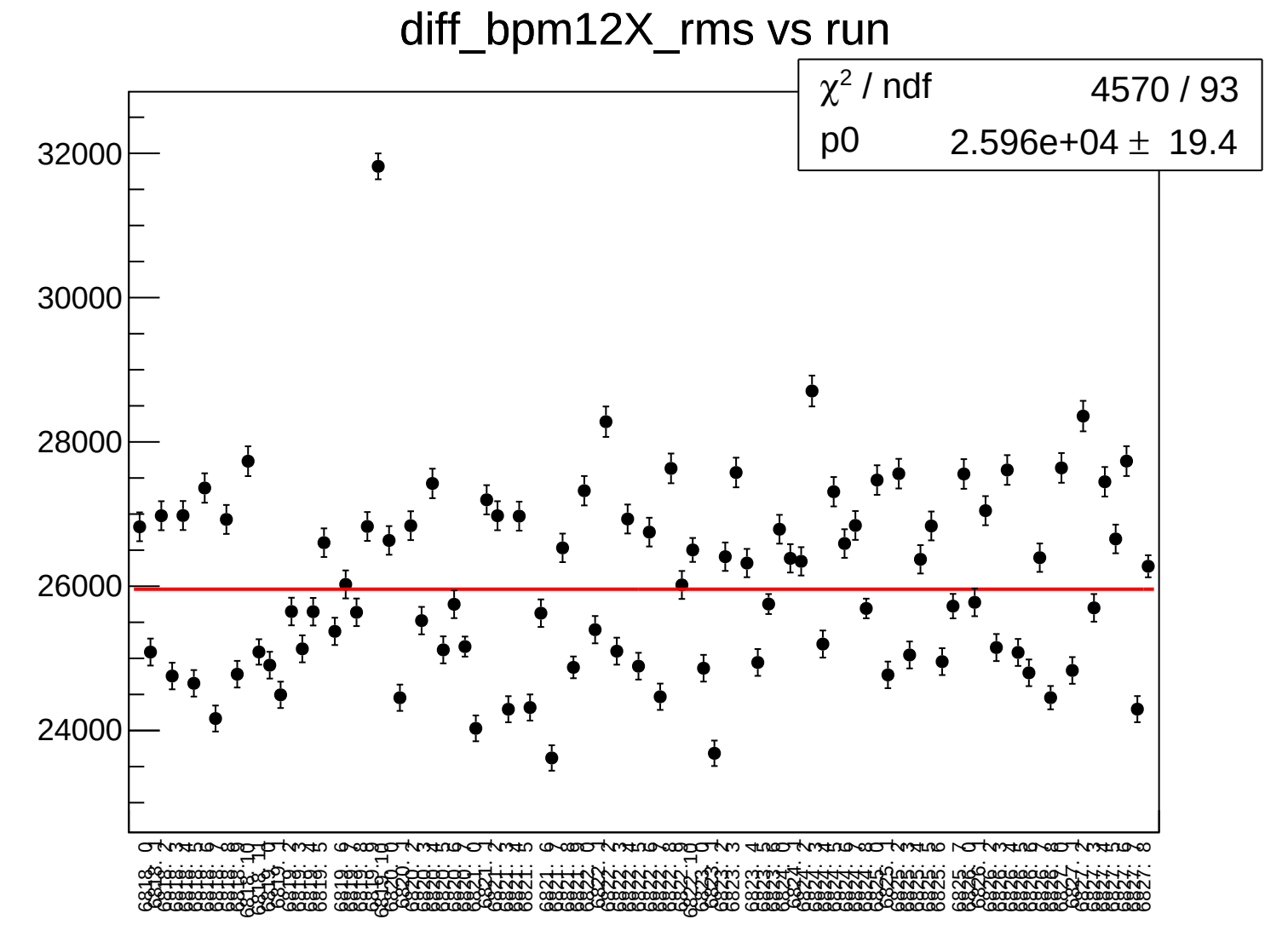

diff_bpm11Y_mean vs run
χ² / ndf 78.6 / 93
p0 11.53 ± 7.689
pull
Entries 94
Mean −101.3
Std Dev 0

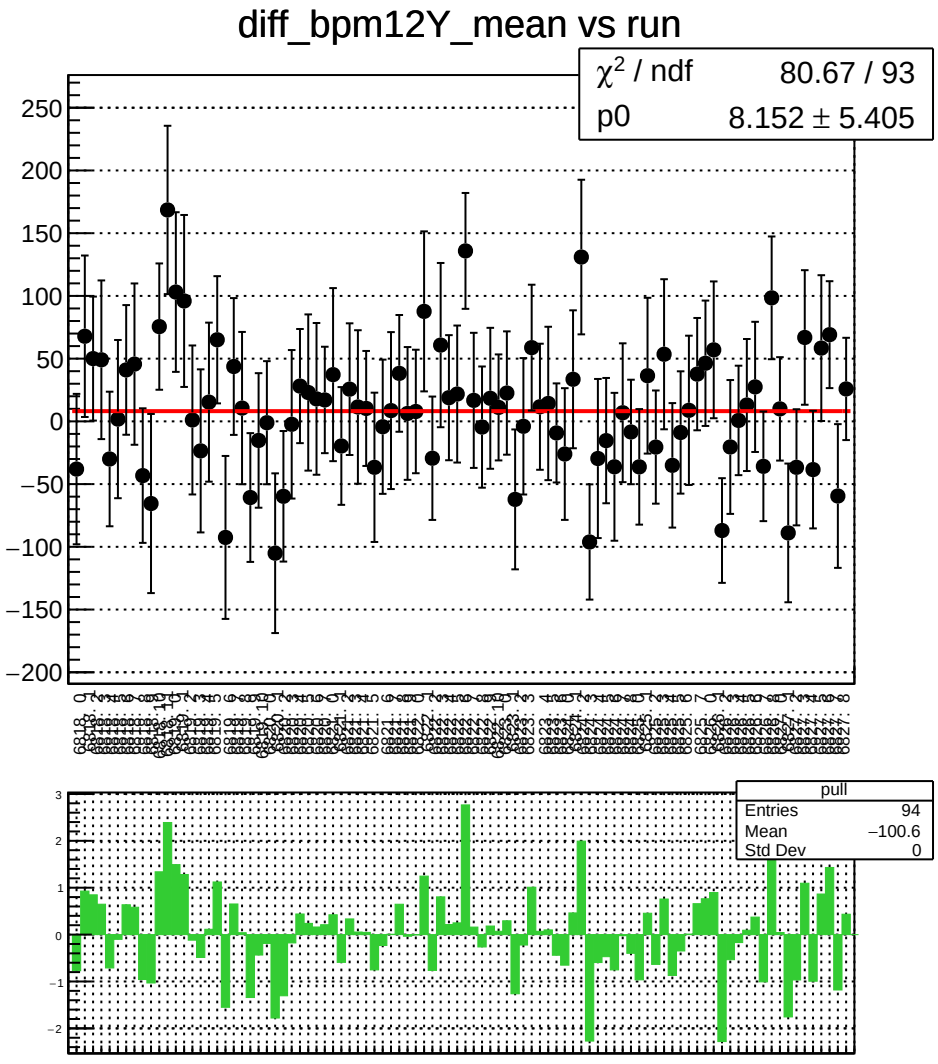

pull1D
Entries 94
Mean 0.01866
Std Dev 0.9143

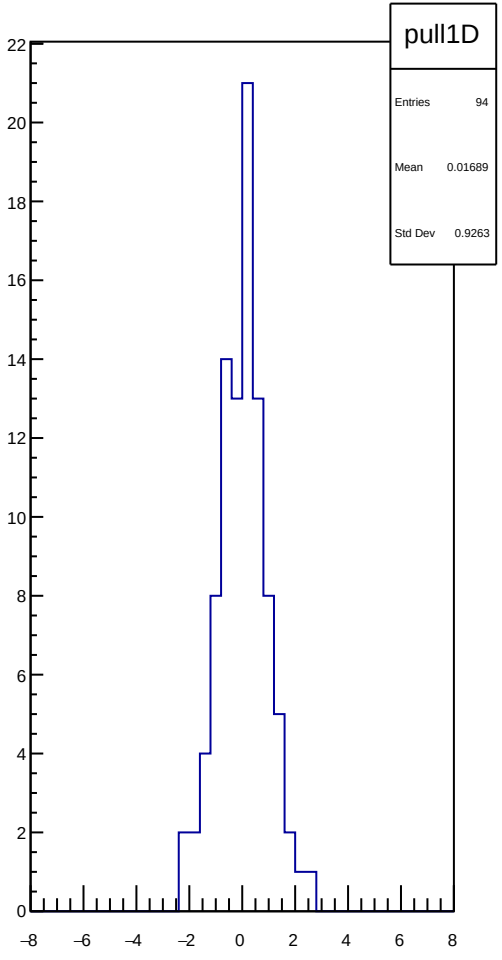

diff_bpm11Y_rms vs run
χ² / ndf 3.844e+04 / 93
p0 7206 ± 5.437
10000
9000
8000
7000
6000
5000

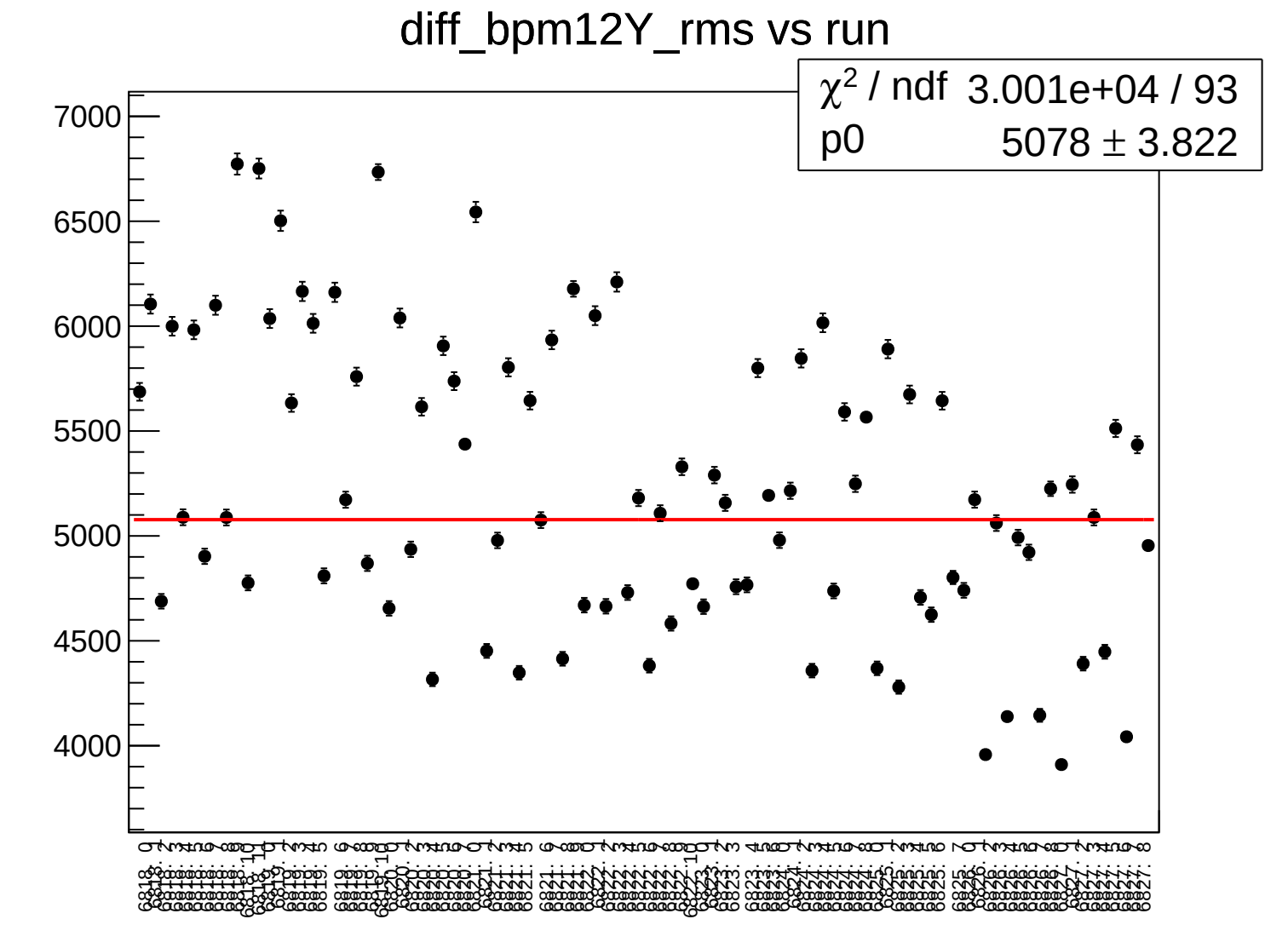

diff_bpm12X_mean vs run
χ^2 / ndf 90.95 / 93
p0 1.872 ± 27.44
1000
500
0
−500
−1000
pull
Entries 94
Mean −4657
Std Dev 0
2
1
0
−1
−2
−3

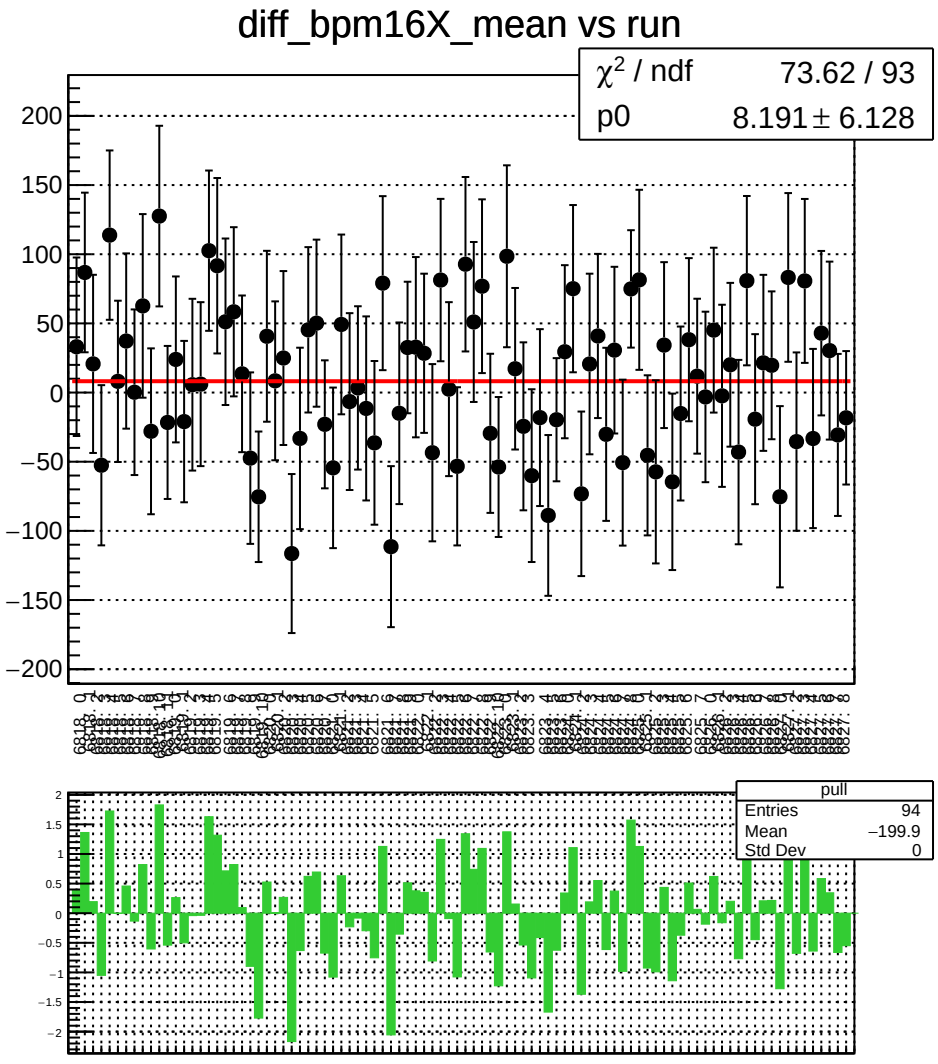

pull1D
Entries 94
Mean −0.0002791
Std Dev 0.9837
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

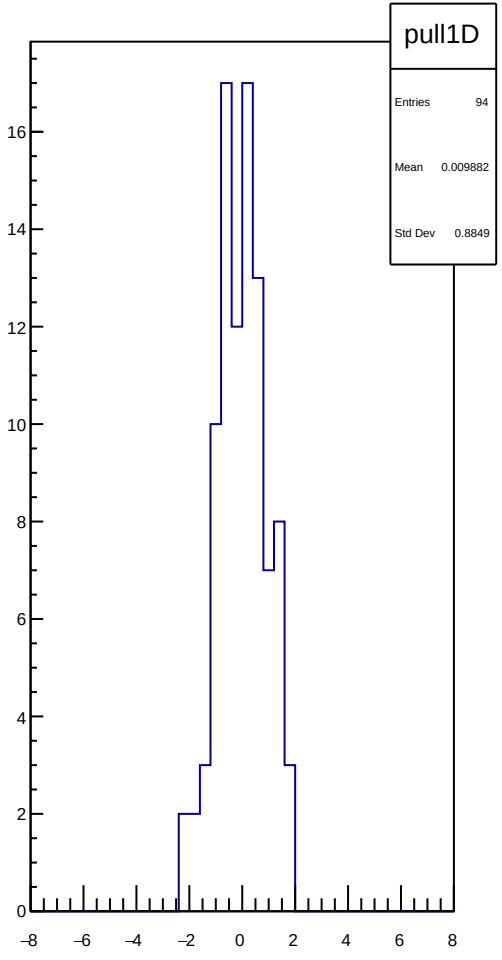

diff_bpm12X_rms vs run
χ² / ndf 4570 / 93
p0 2.596e+04 ± 19.4
32000
30000
28000
26000
24000

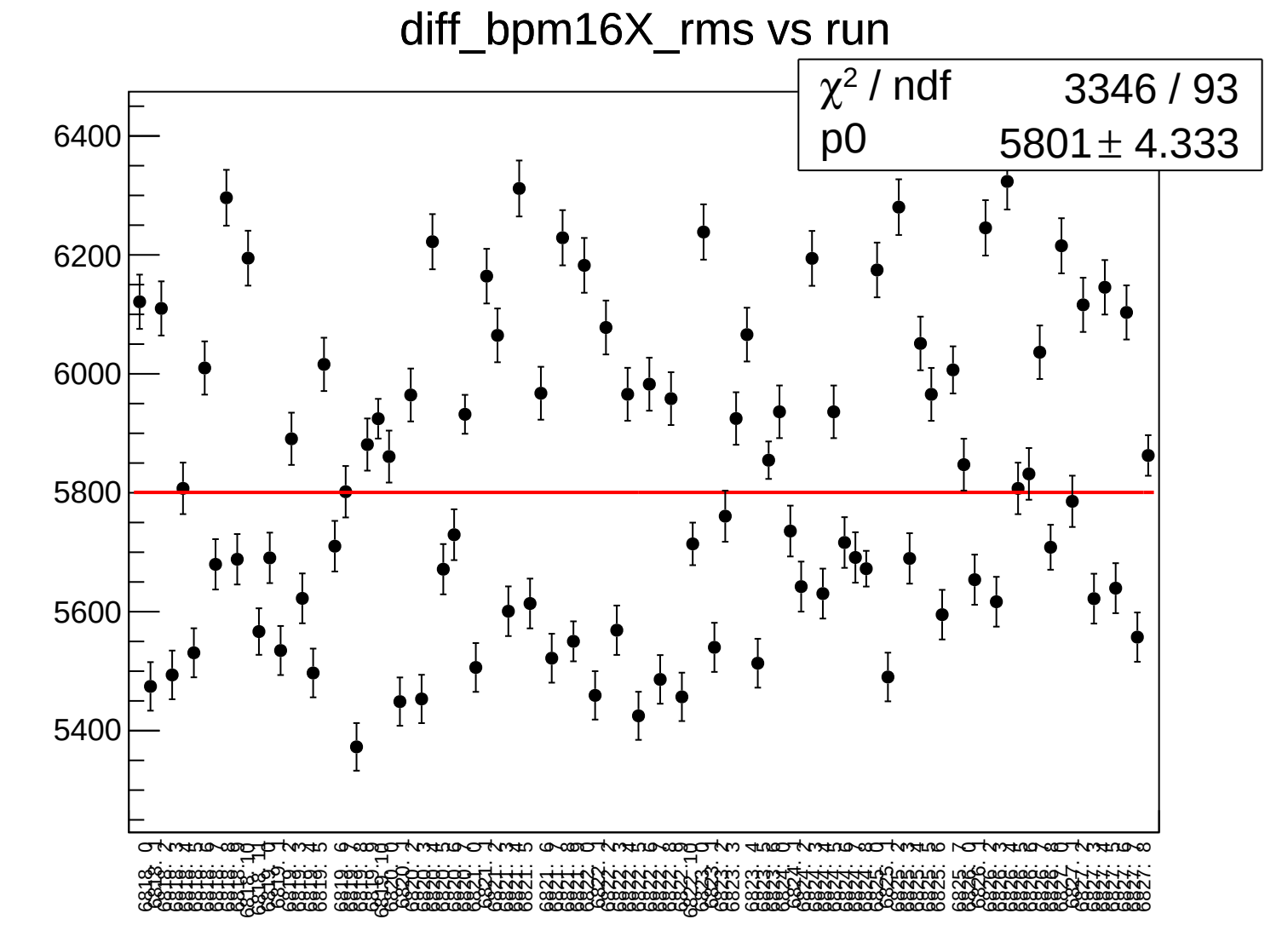

diff_bpm12Y_mean vs run
χ² / ndf 80.67 / 93
p0 8.152 ± 5.405
pull
Entries 94
Mean −100.6
Std Dev 0

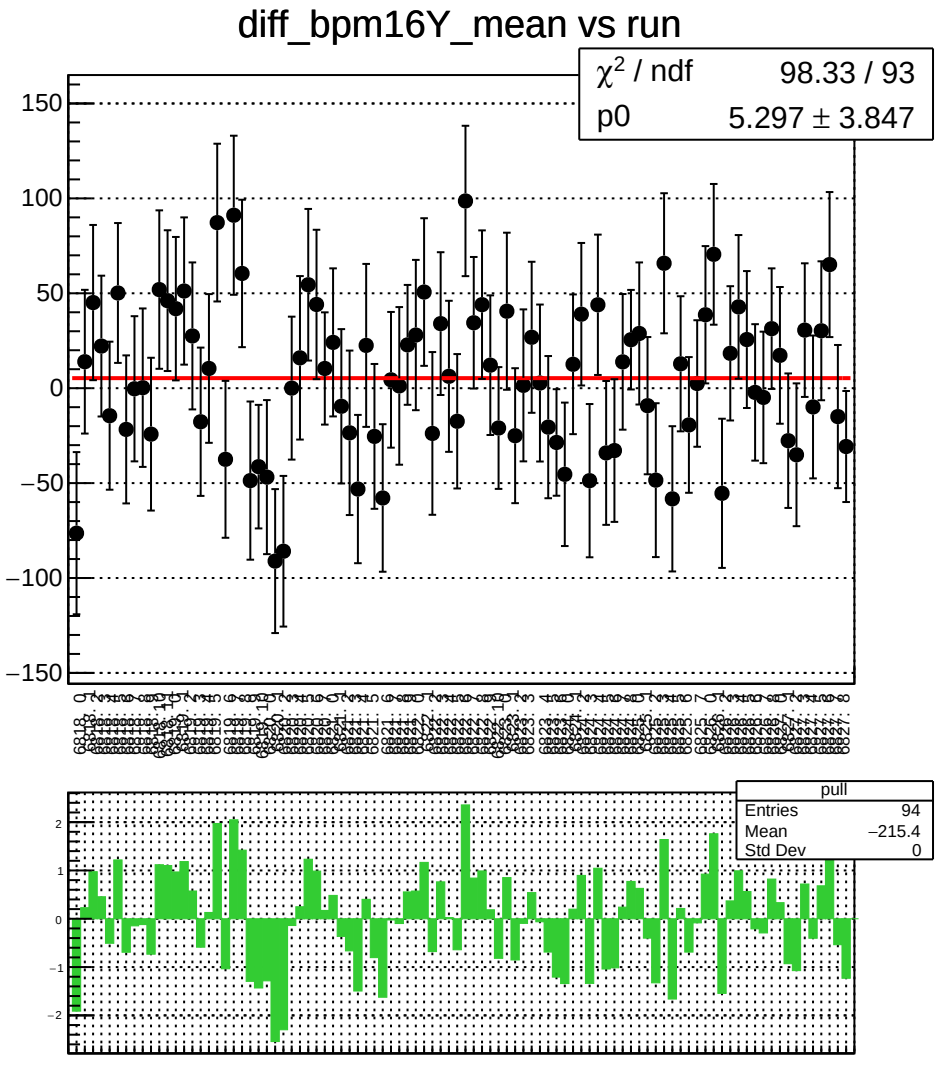

pull1D
Entries 94
Mean 0.01689
Std Dev 0.9263

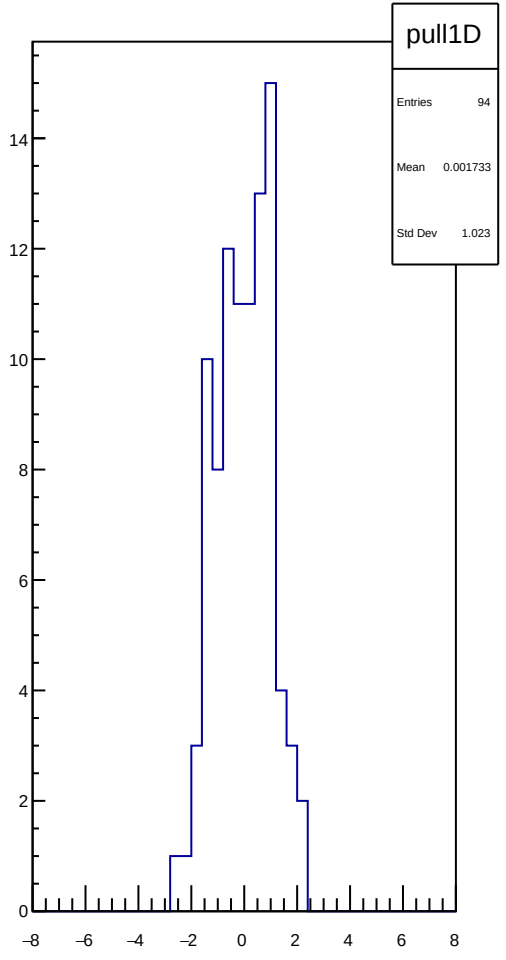

diff_bpm12Y_rms vs run
χ² / ndf 3.001e+04 / 93
p0 5078 ± 3.822
7000
6500
6000
5500
5000
4500
4000

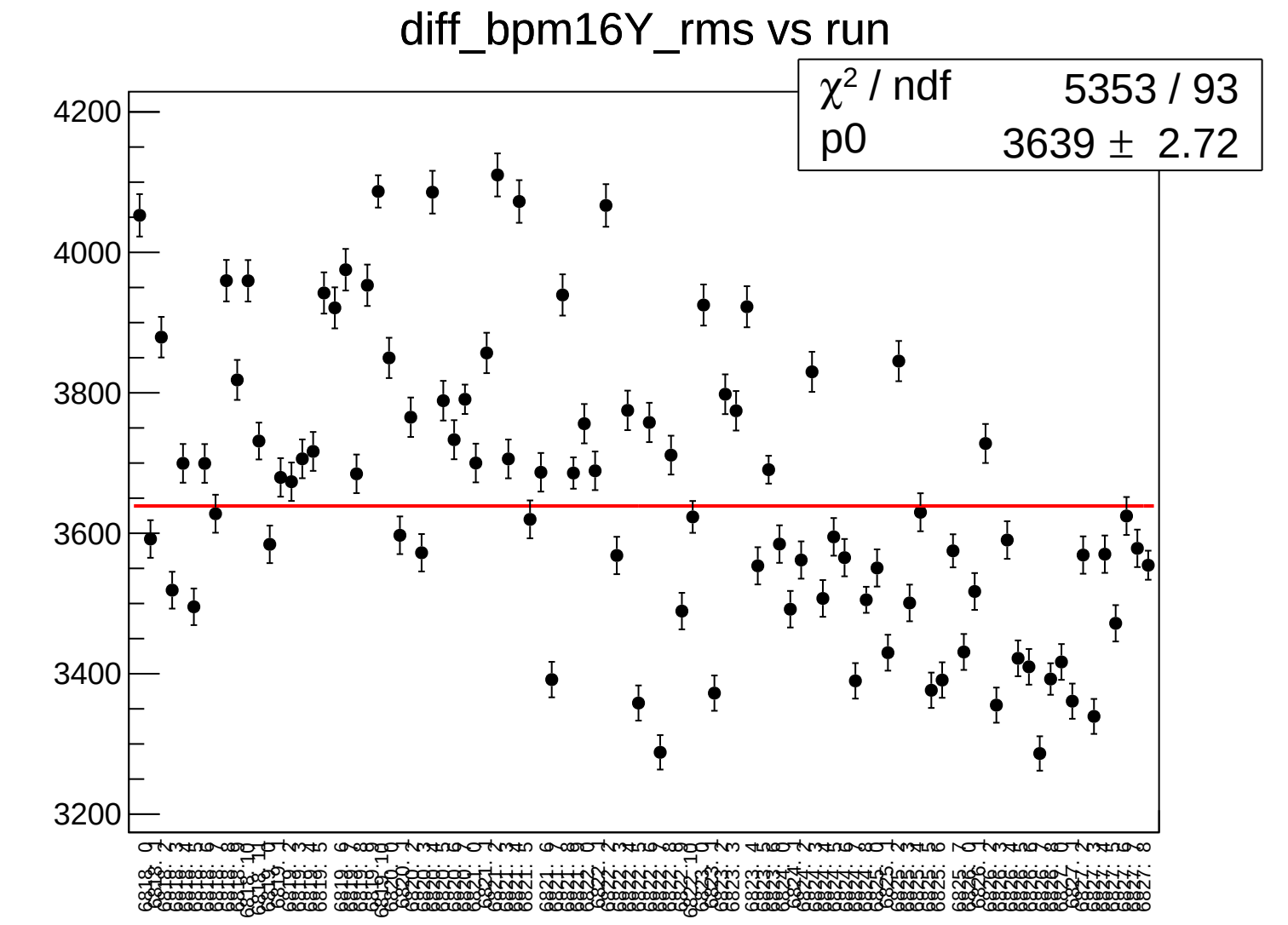

diff_bpm16X_mean vs run
χ² / ndf 73.62 / 93
p0 8.191 ± 6.128
pull
Entries 94
Mean −199.9
Std Dev 0

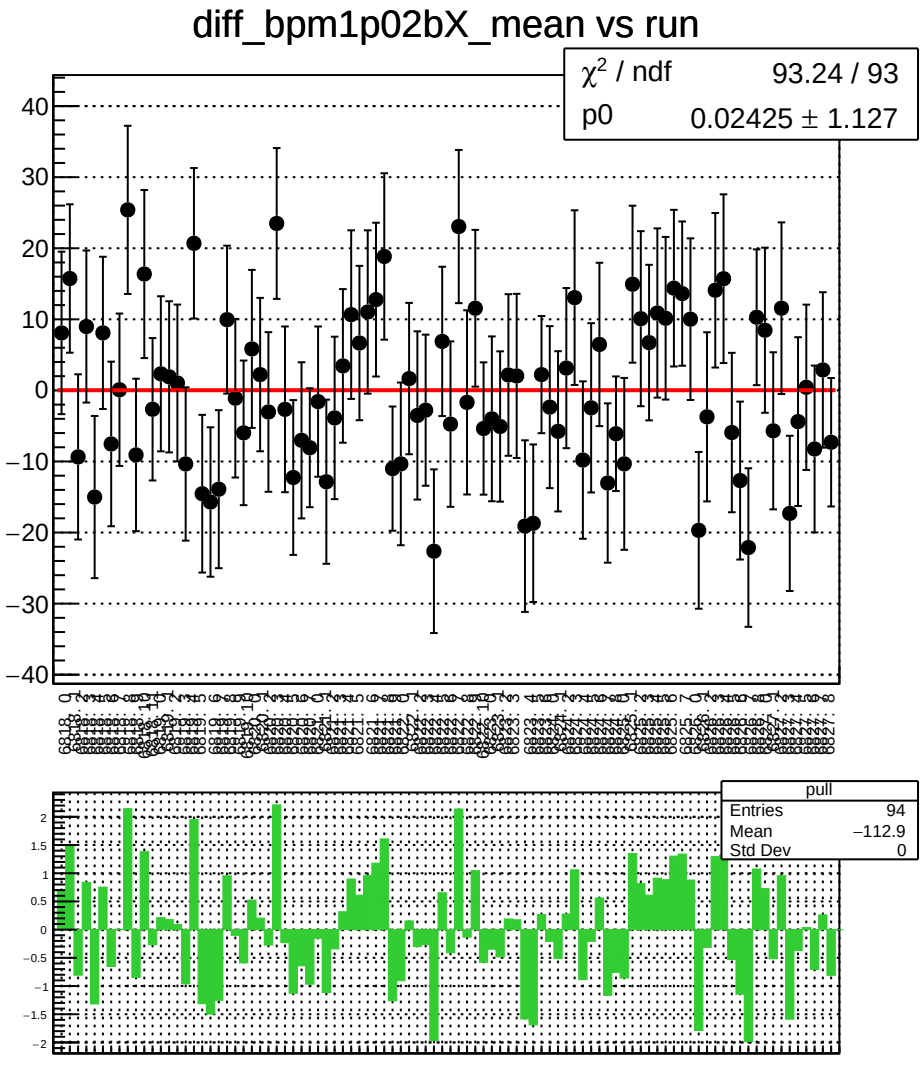

pull1D
Entries 94
Mean 0.009882
Std Dev 0.8849

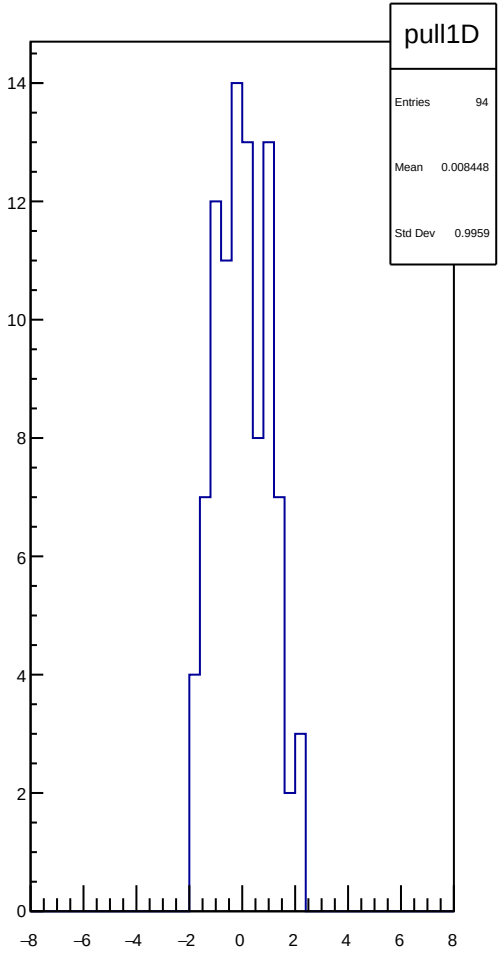

diff_bpm16X_rms vs run
χ² / ndf 3346 / 93
p0 5801 ± 4.333
6400
6200
6000
5800
5600
5400

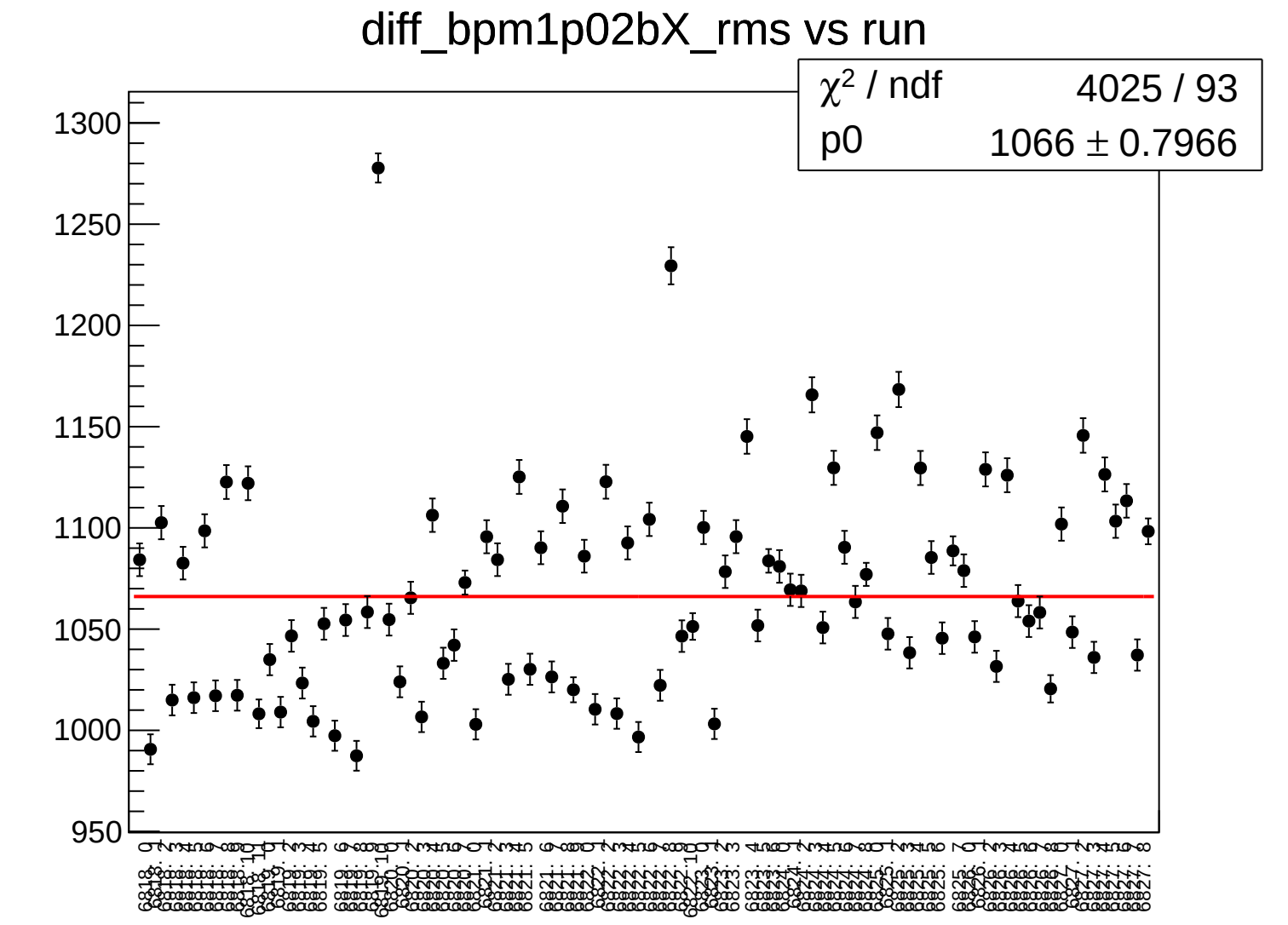

diff_bpm16Y_mean vs run
χ² / ndf 98.33 / 93
p0 5.297 ± 3.847
150
100
50
0
−50
−100
−150
pull
Entries 94
Mean −215.4
Std Dev 0
2
1
0
−1
−2

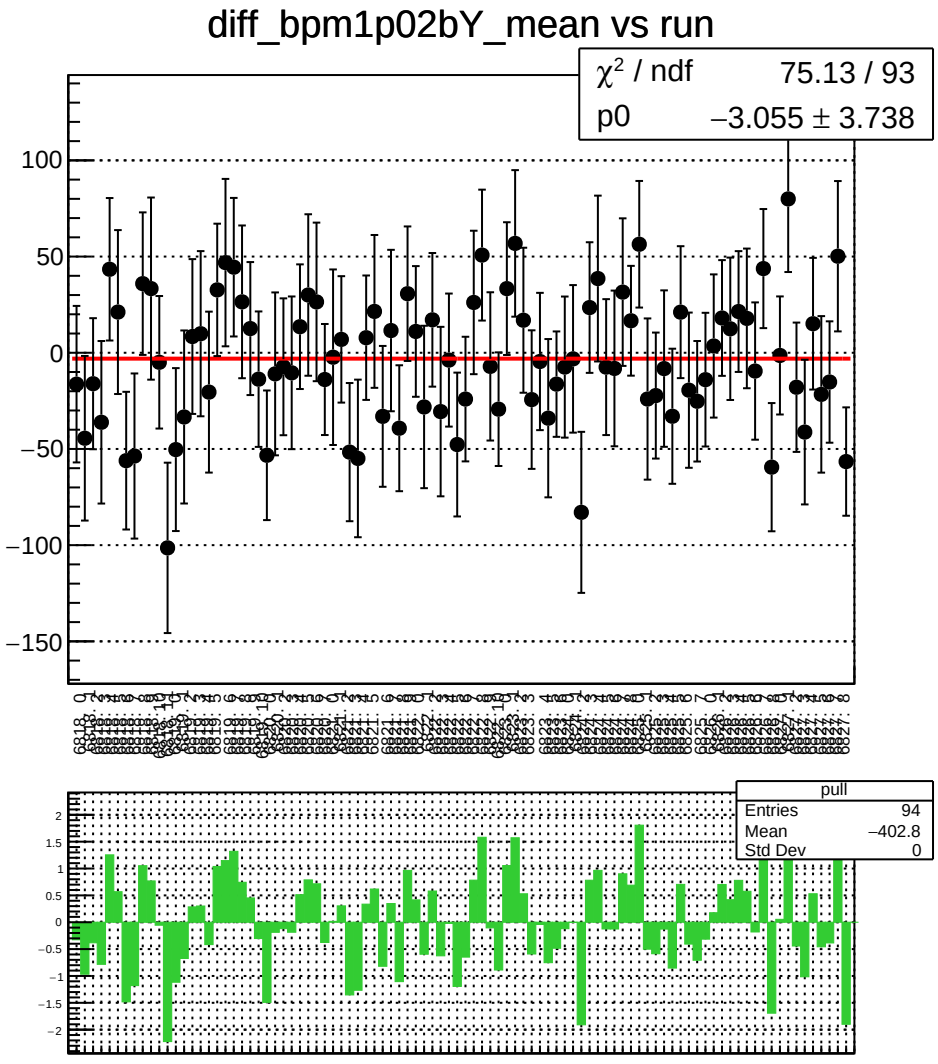

pull1D
Entries 94
Mean 0.001733
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

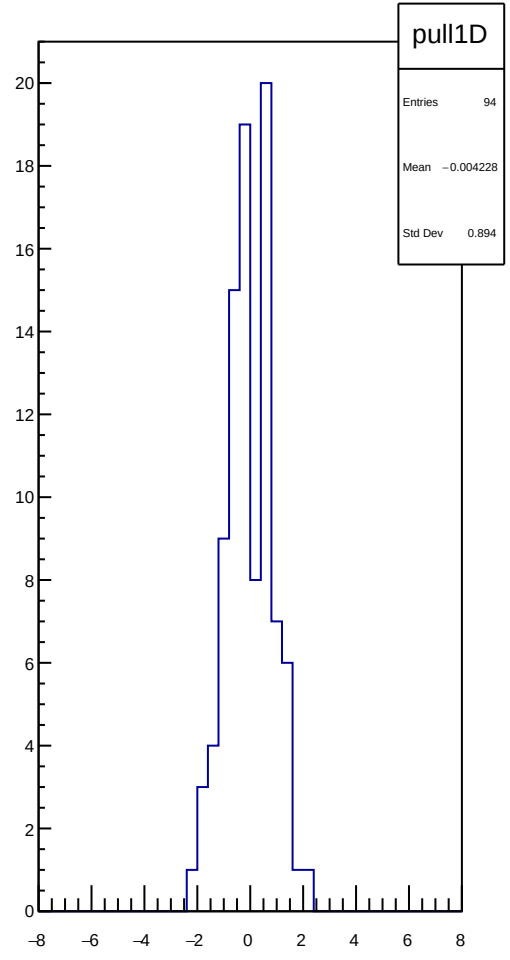

diff_bpm16Y_rms vs run
χ² / ndf 5353 / 93
p0 3639 ± 2.72
4200
4000
3800
3600
3400
3200

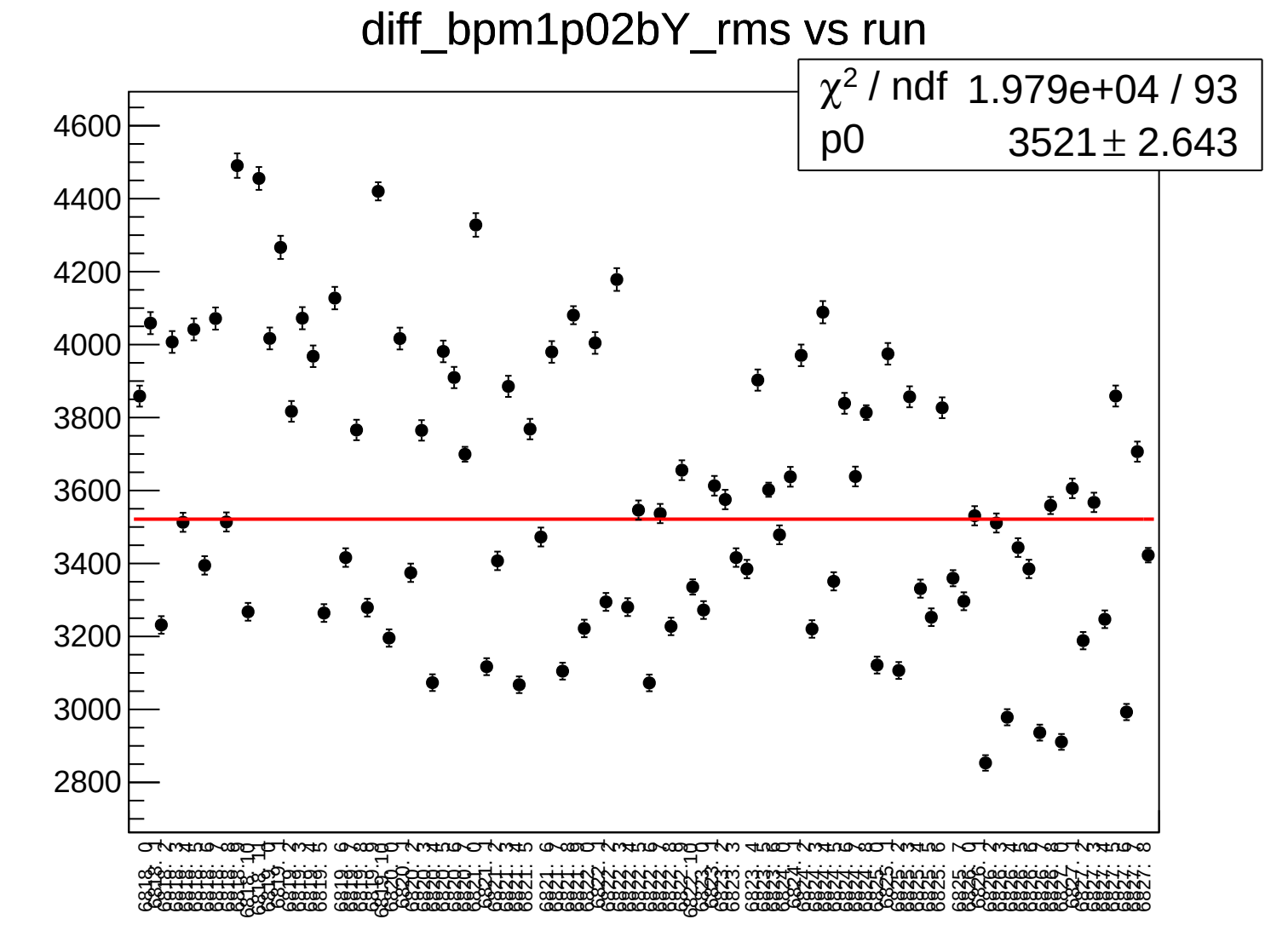

diff_bpm1p02bX_mean vs run
χ² / ndf 93.24 / 93
p0 0.02425 ± 1.127
pull
Entries 94
Mean −112.9
Std Dev 0

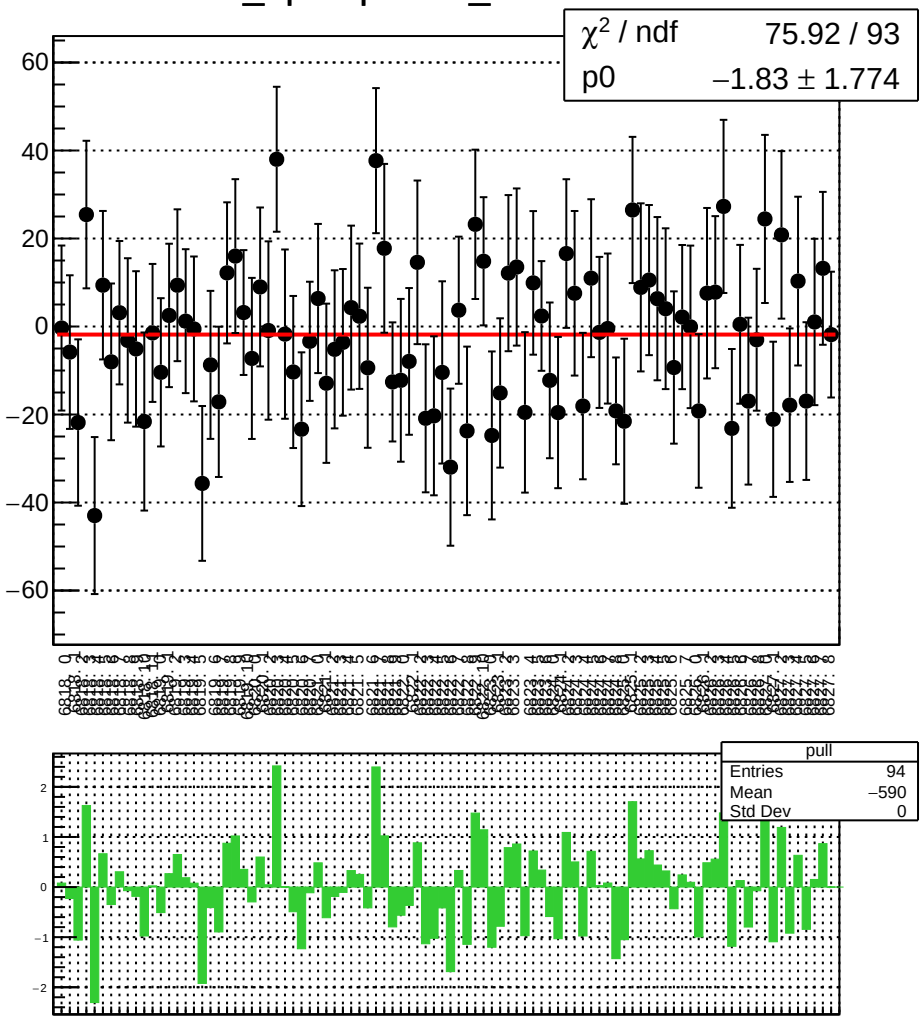

pull1D
Entries 94
Mean 0.008448
Std Dev 0.9959

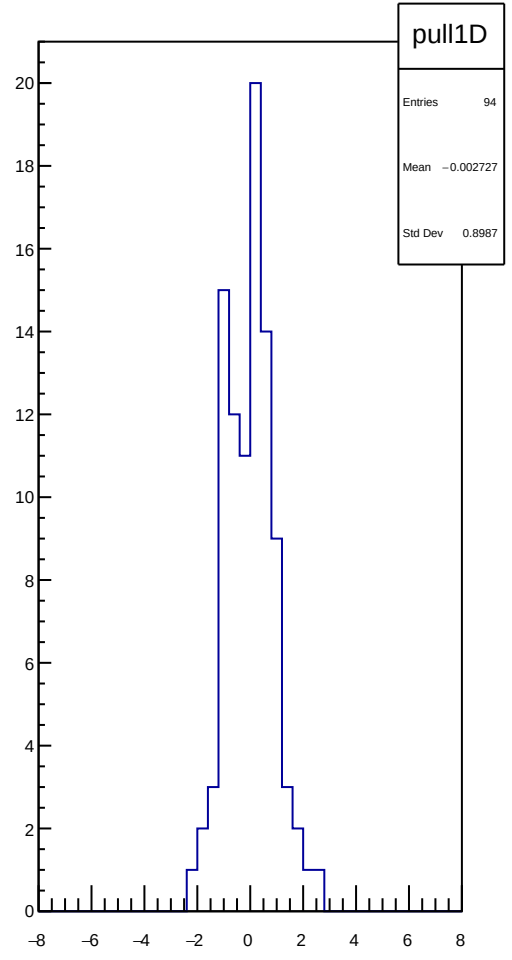

diff_bpm1p02bX_rms vs run
χ² / ndf 4025 / 93
p0 1066 ± 0.7966
1300
1250
1200
1150
1100
1050
1000
950

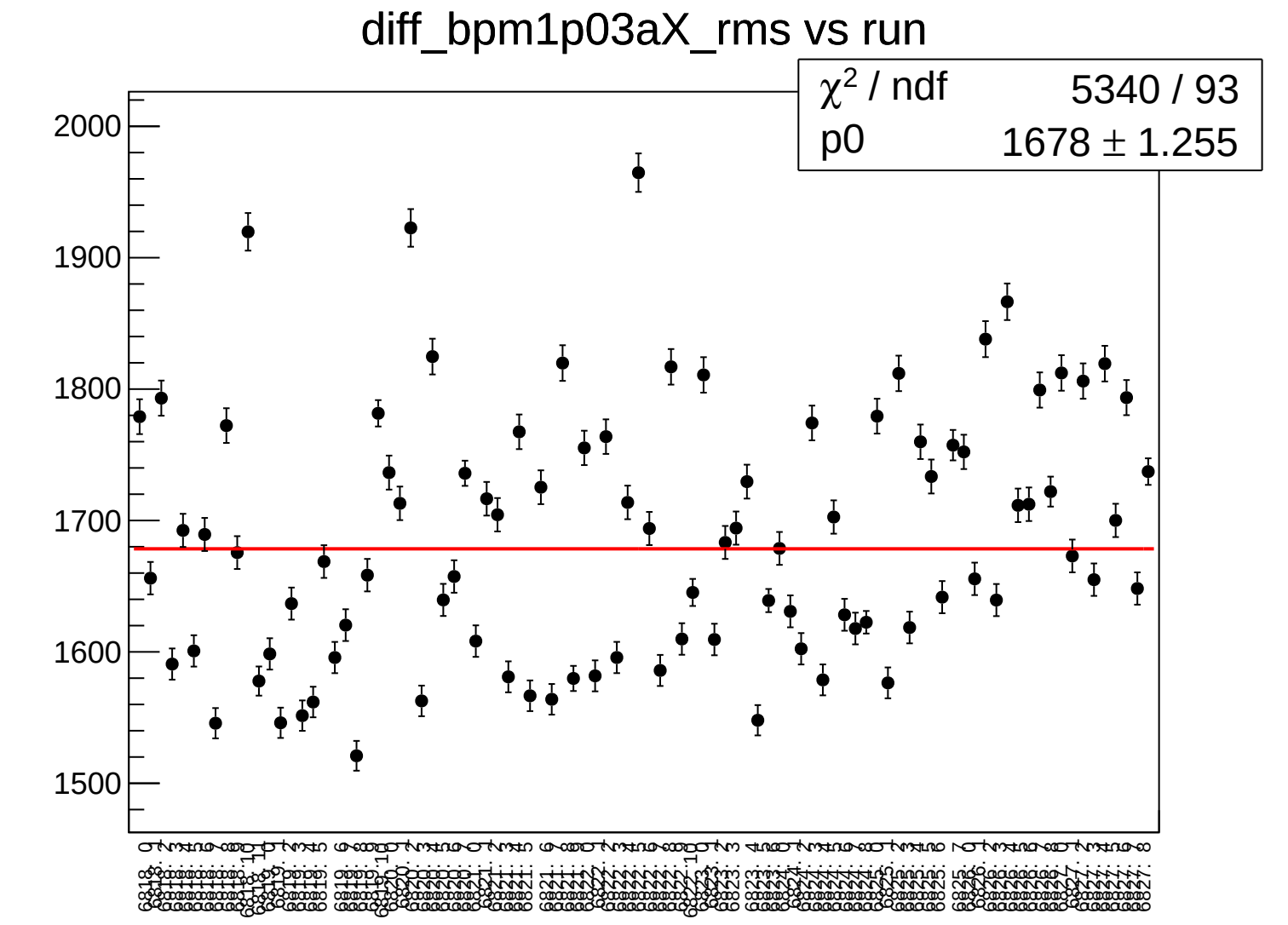

diff_bpm1p02bY_mean vs run
χ² / ndf 75.13 / 93
p0 −3.055 ± 3.738
pull
Entries 94
Mean −402.8
Std Dev 0

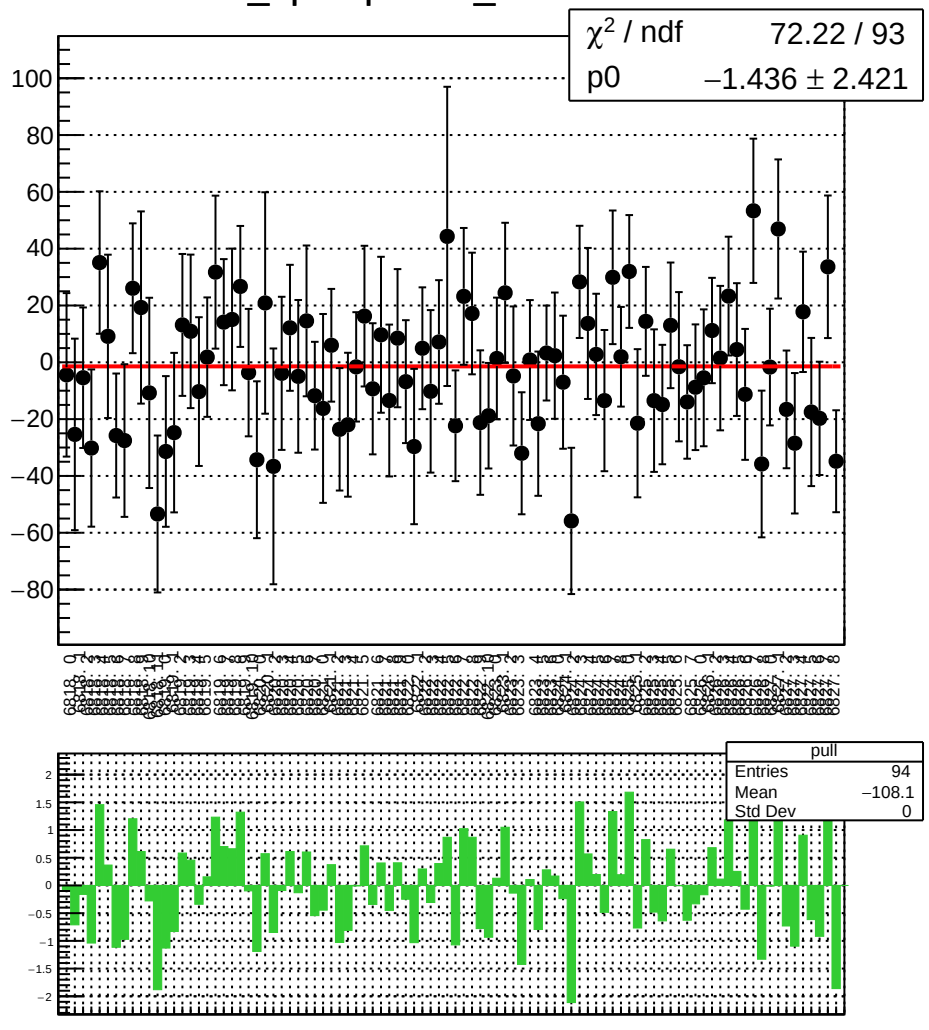

pull1D
Entries 94
Mean −0.004228
Std Dev 0.894

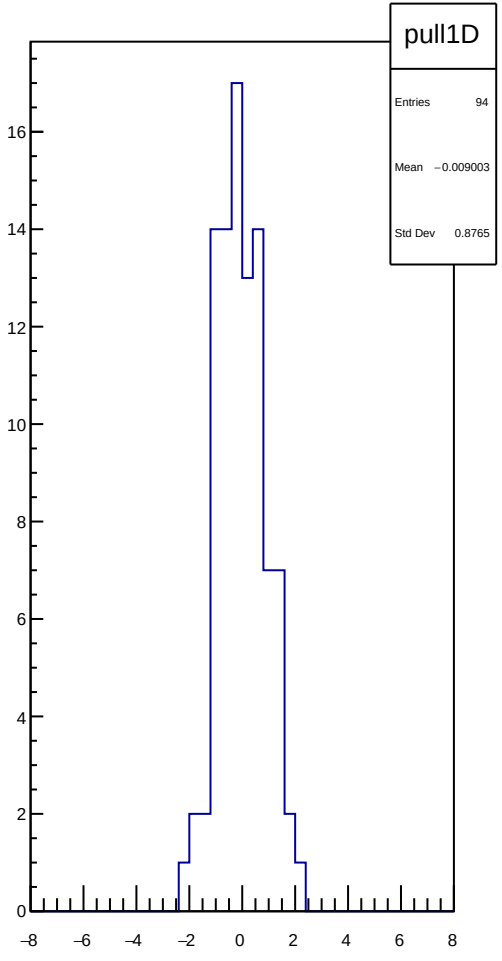

diff_bpm1p02bY_rms vs run
χ² / ndf 1.979e+04 / 93
p0 3521 ± 2.643
4600
4400
4200
4000
3800
3600
3400
3200
3000
2800

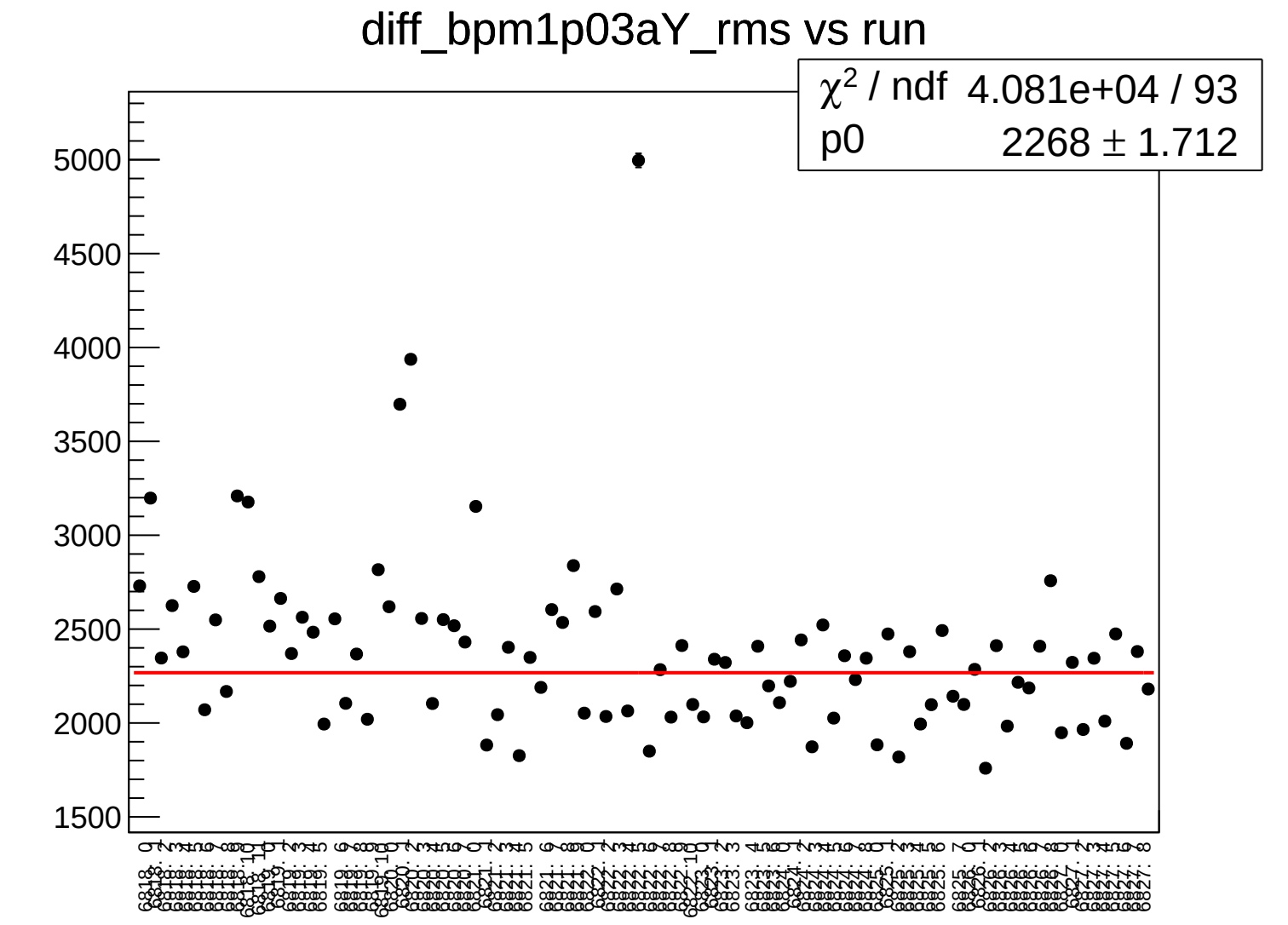

diff_bpm1p03aX_mean vs run
χ² / ndf 75.92 / 93
p0 −1.83 ± 1.774
pull
Entries 94
Mean −590
Std Dev 0

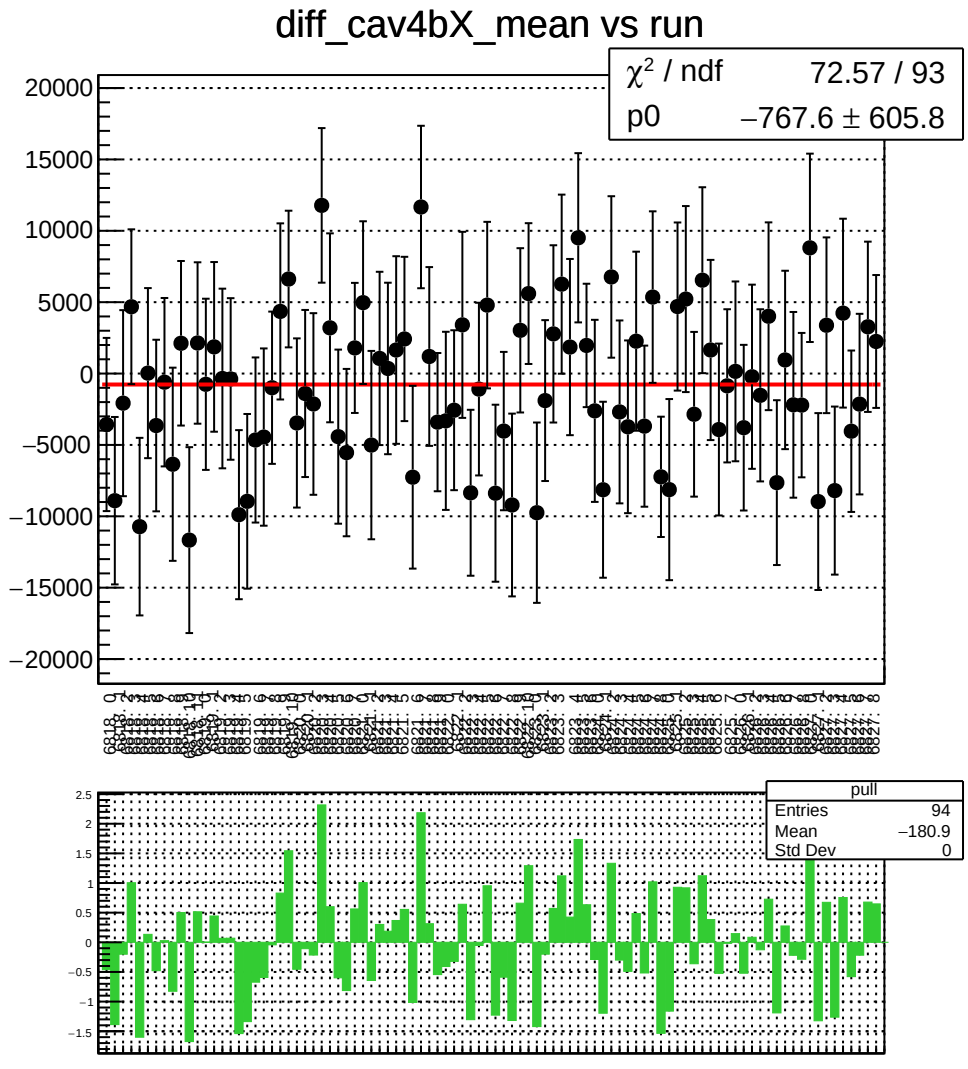

pull1D
Entries 94
Mean −0.002727
Std Dev 0.8987

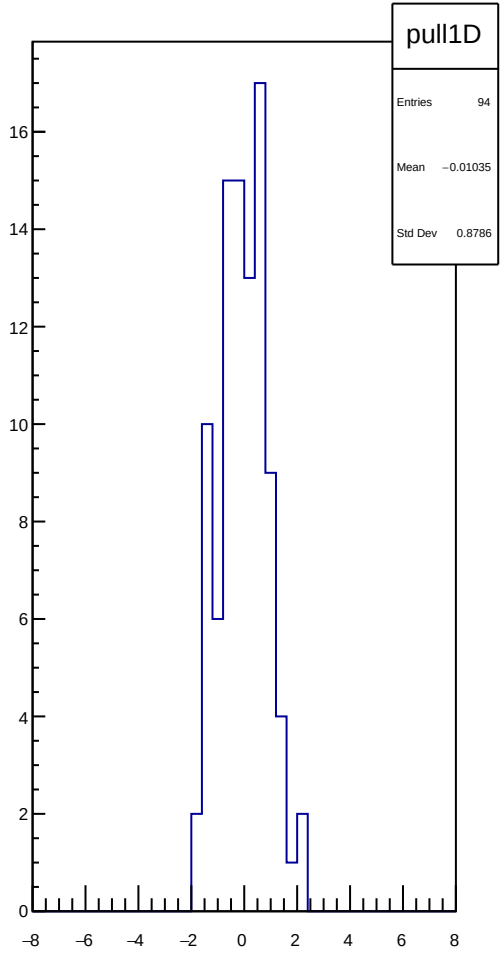

diff_bpm1p03aX_rms vs run
χ² / ndf 5340 / 93
p0 1678 ± 1.255
2000
1900
1800
1700
1600
1500

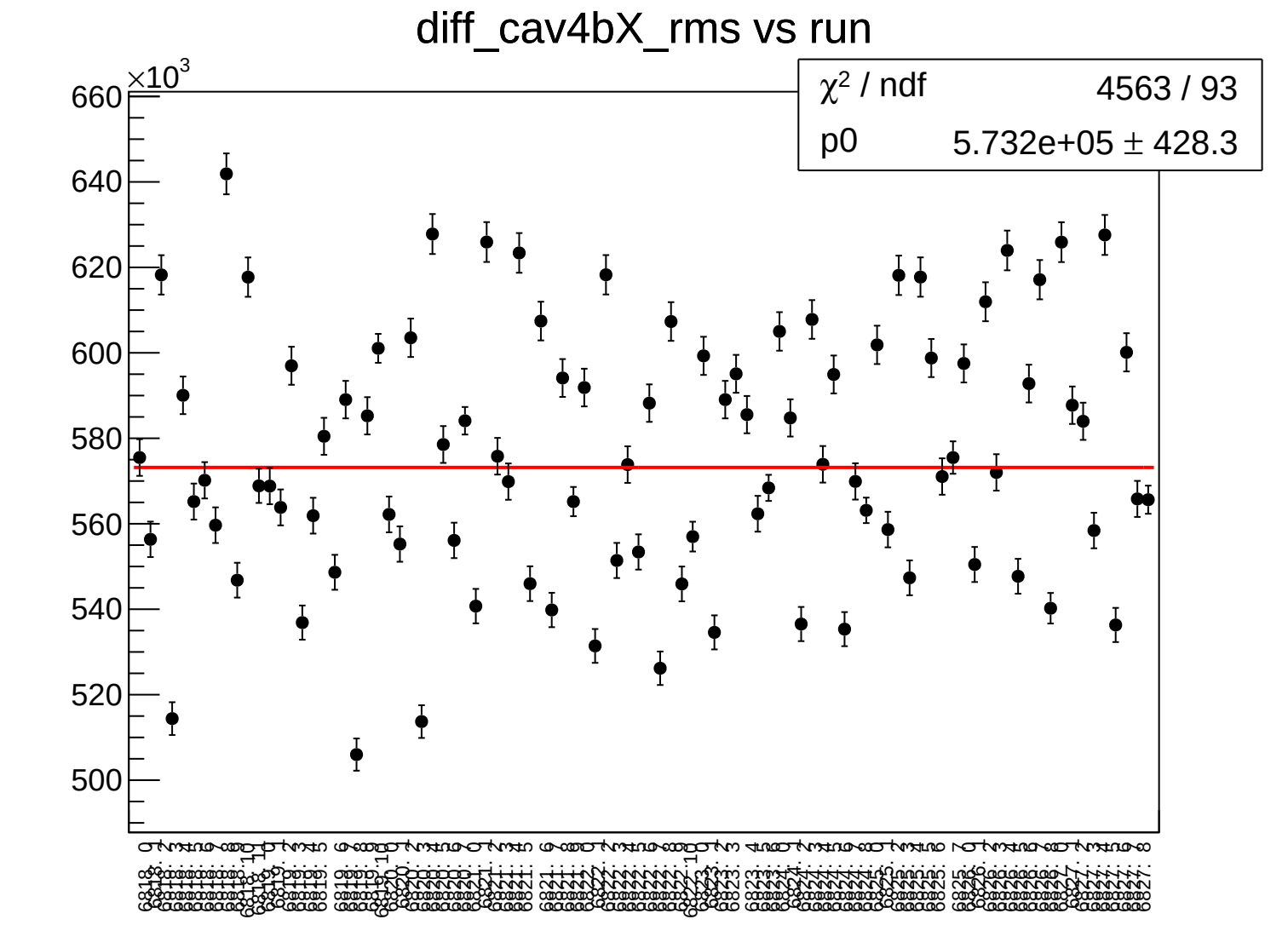

diff_bpm1p03aY_mean vs run
χ² / ndf 72.22 / 93
p0 −1.436 ± 2.421
pull
Entries 94
Mean −108.1
Std Dev 0

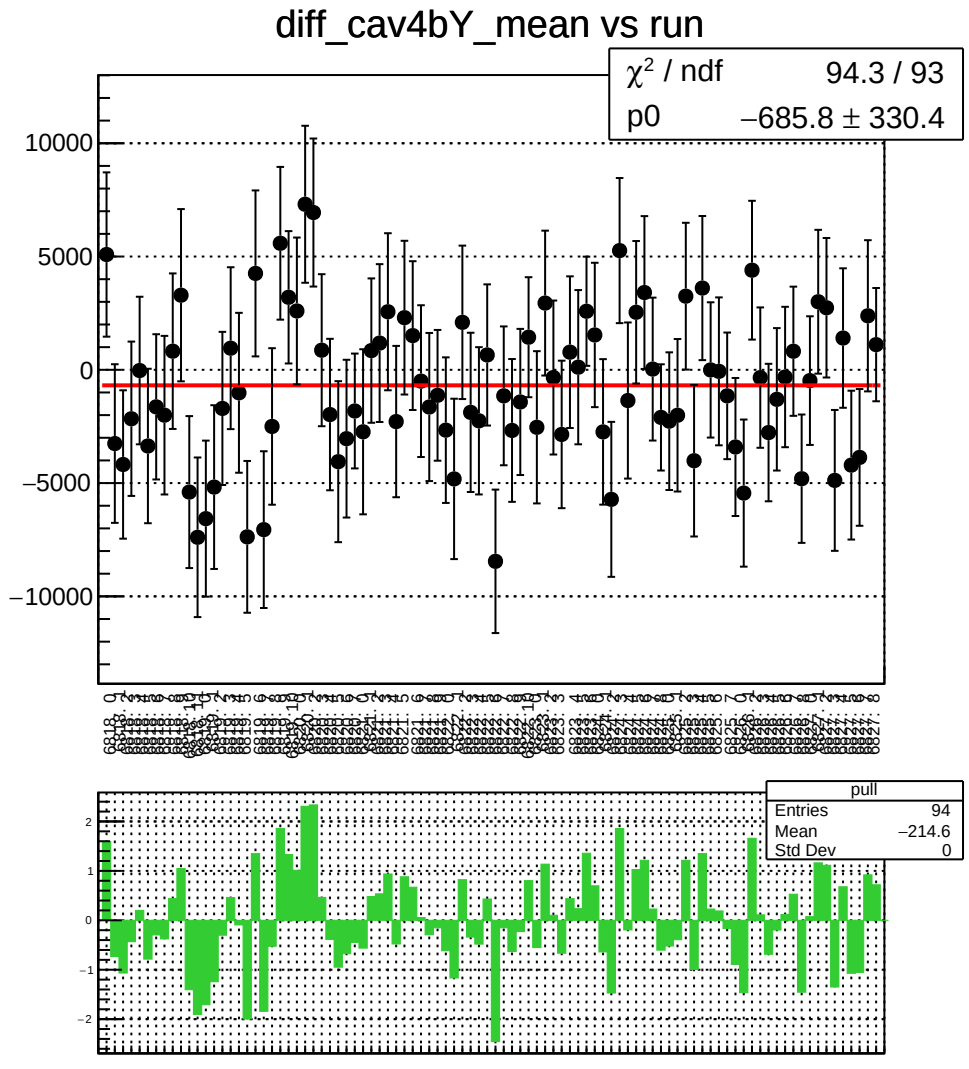

pull1D
Entries 94
Mean −0.009003
Std Dev 0.8765

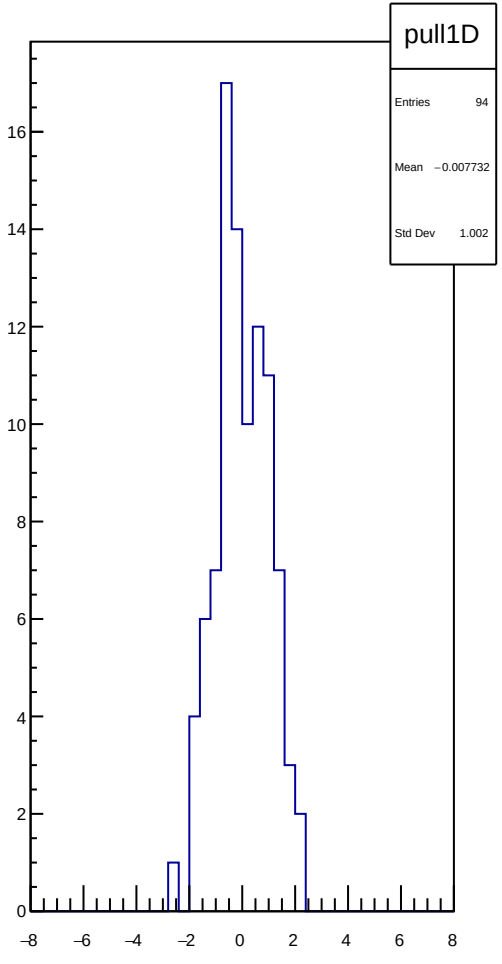

diff_bpm1p03aY_rms vs run
χ² / ndf 4.081e+04 / 93
p0 2268 ± 1.712
5000
4500
4000
3500
3000
2500
2000
1500

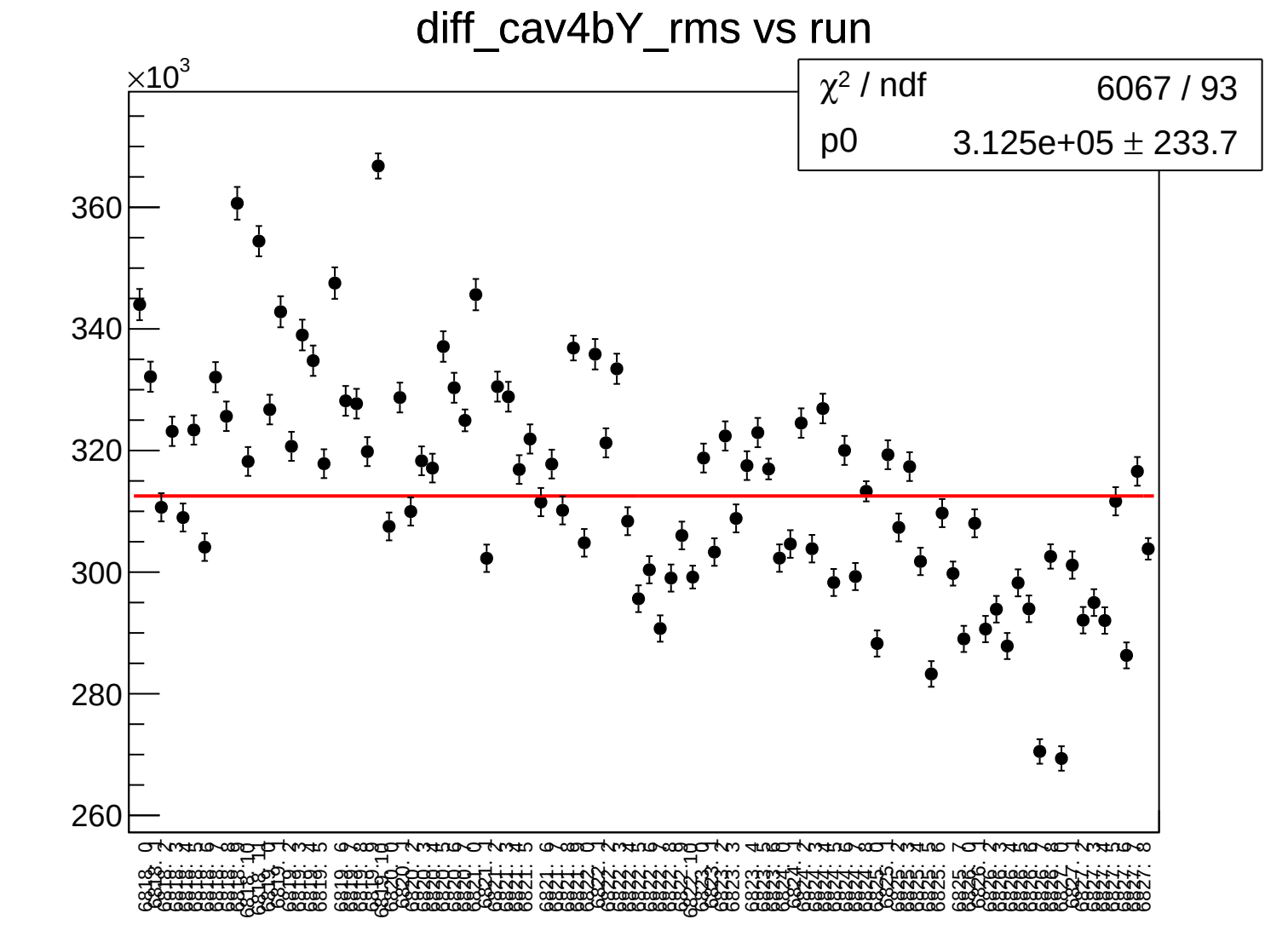

diff_cav4bX_mean vs run
χ² / ndf 72.57 / 93
p0 −767.6 ± 605.8
pull
Entries 94
Mean −180.9
Std Dev 0

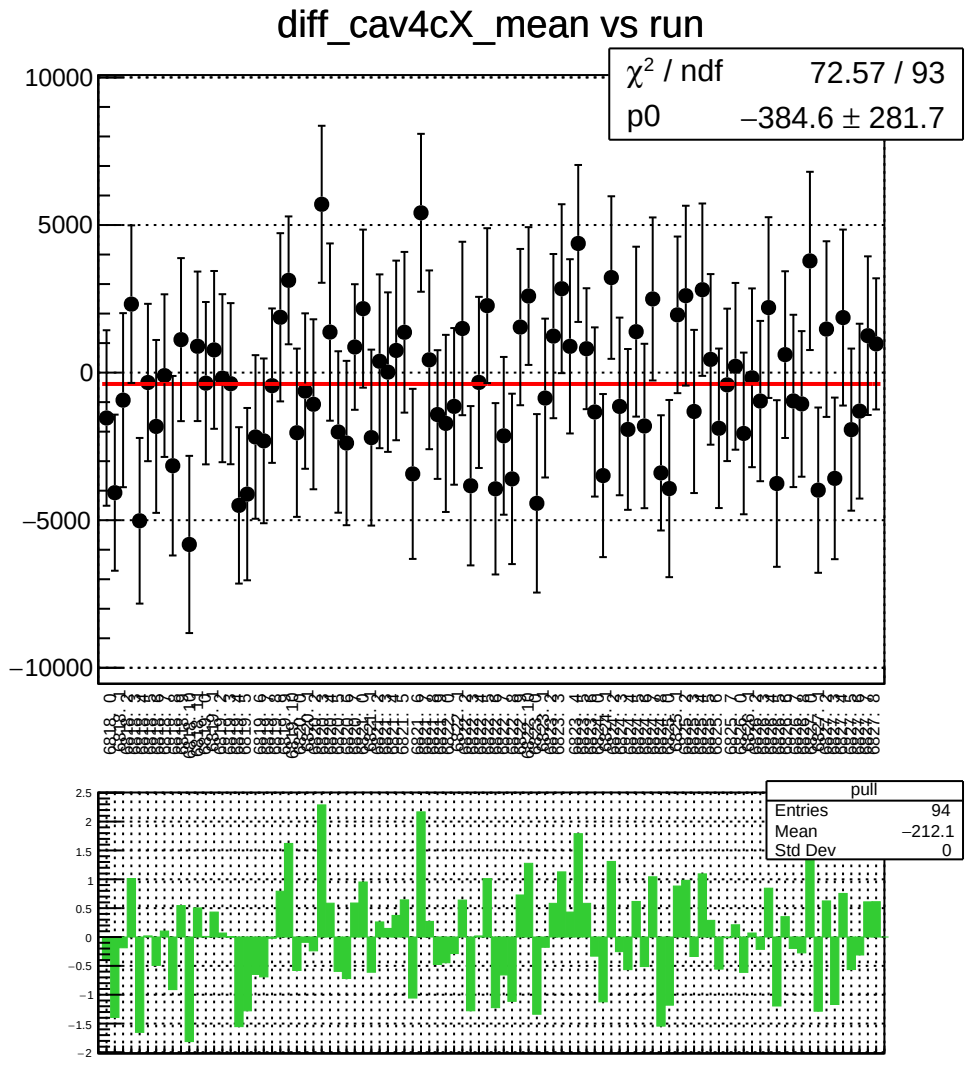

pull1D
Entries 94
Mean −0.01035
Std Dev 0.8786

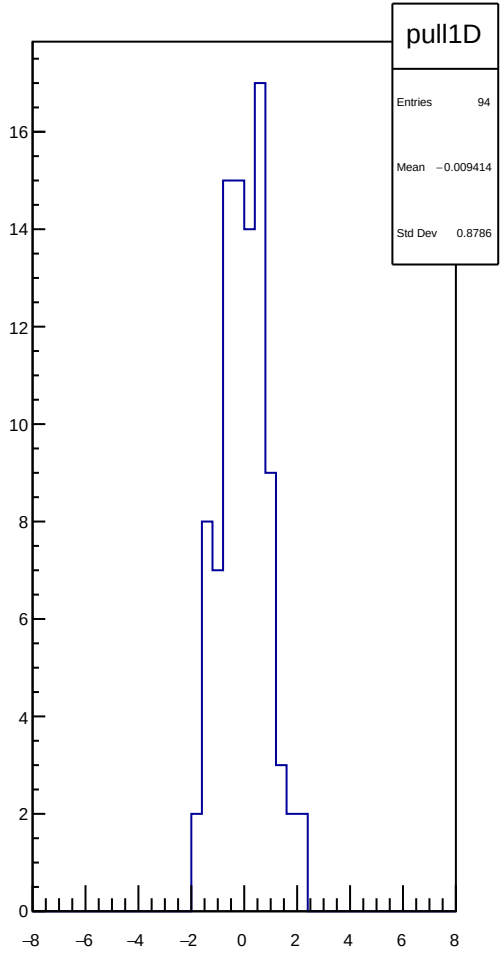

diff_cav4bX_rms vs run
×10^3
660
640
620
600
580
560
540
520
500
χ² / ndf 4563 / 93
p0 5.732e+05 ± 428.3

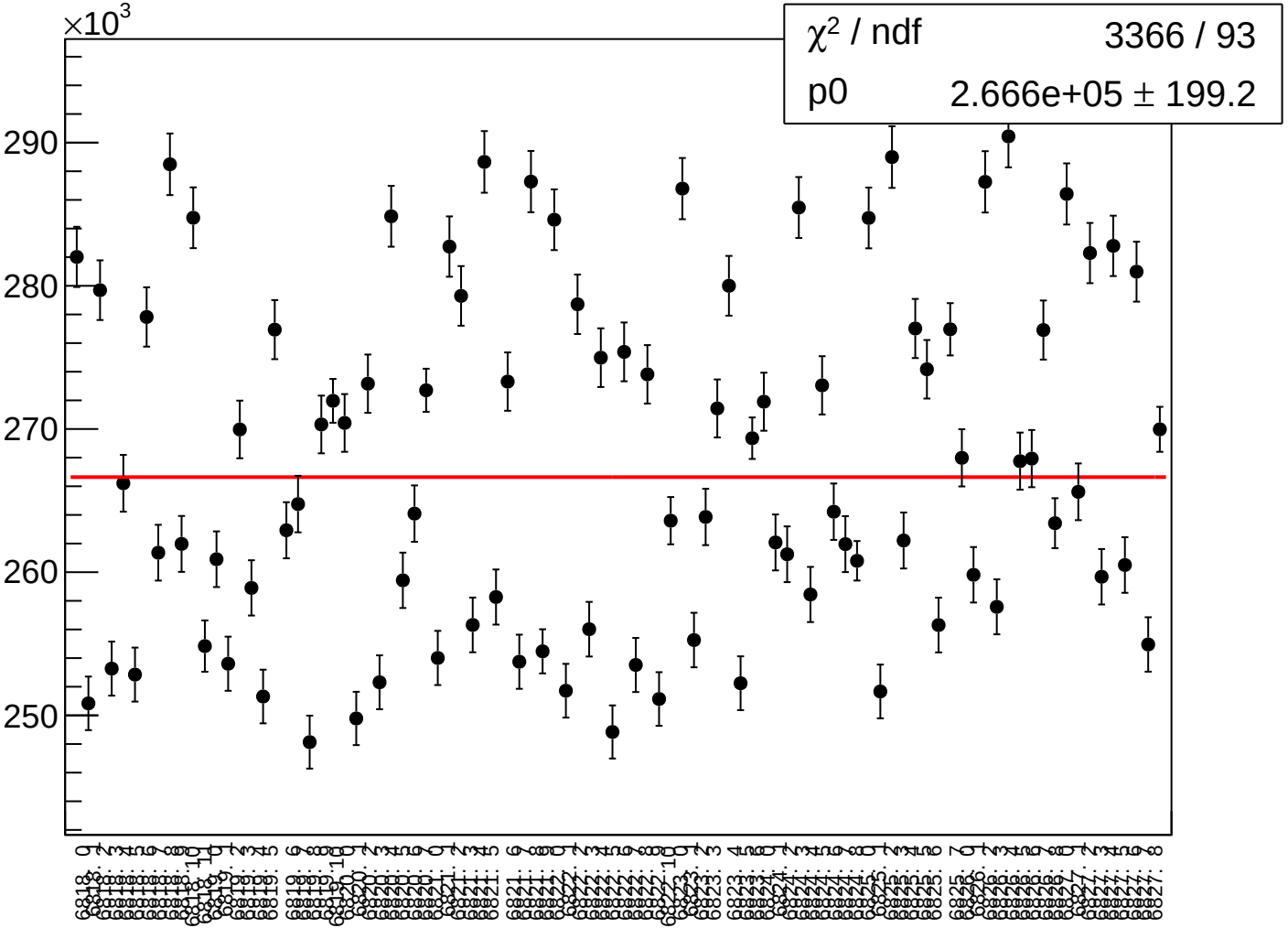

diff_cav4bY_mean vs run
χ² / ndf 94.3 / 93
p0 −685.8 ± 330.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −214.6
Std Dev 0
2
1
0
−1
−2

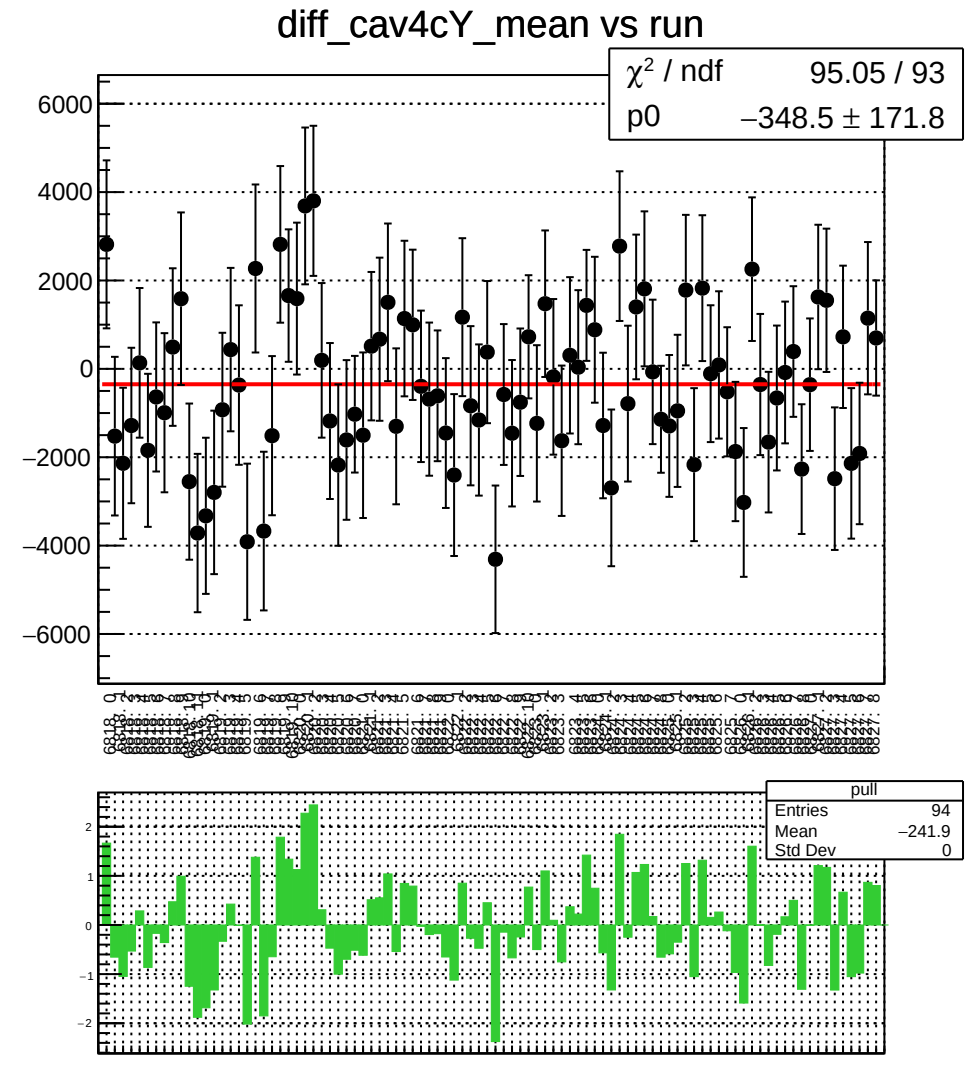

pull1D
Entries 94
Mean −0.007732
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

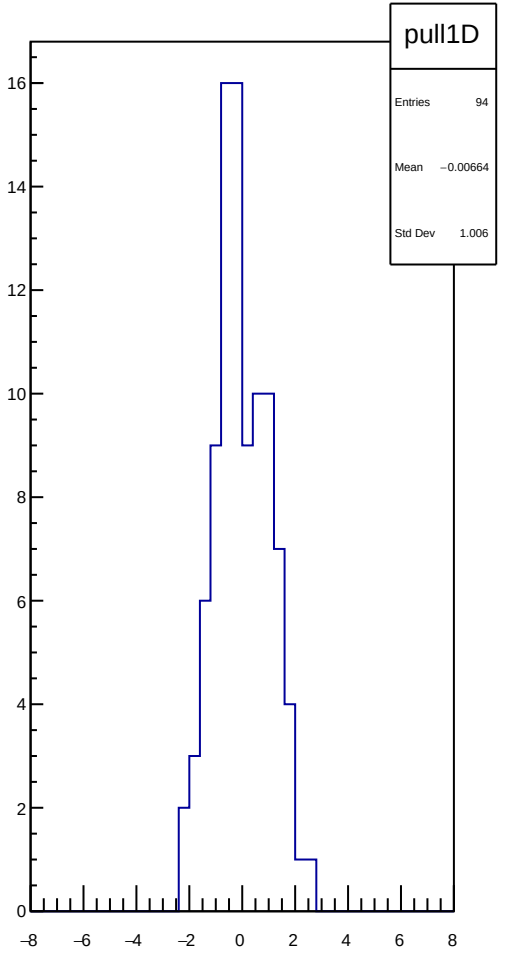

diff_cav4bY_rms vs run
×10^3
χ² / ndf 6067 / 93
p0 3.125e+05 ± 233.7
360
340
320
300
280
260

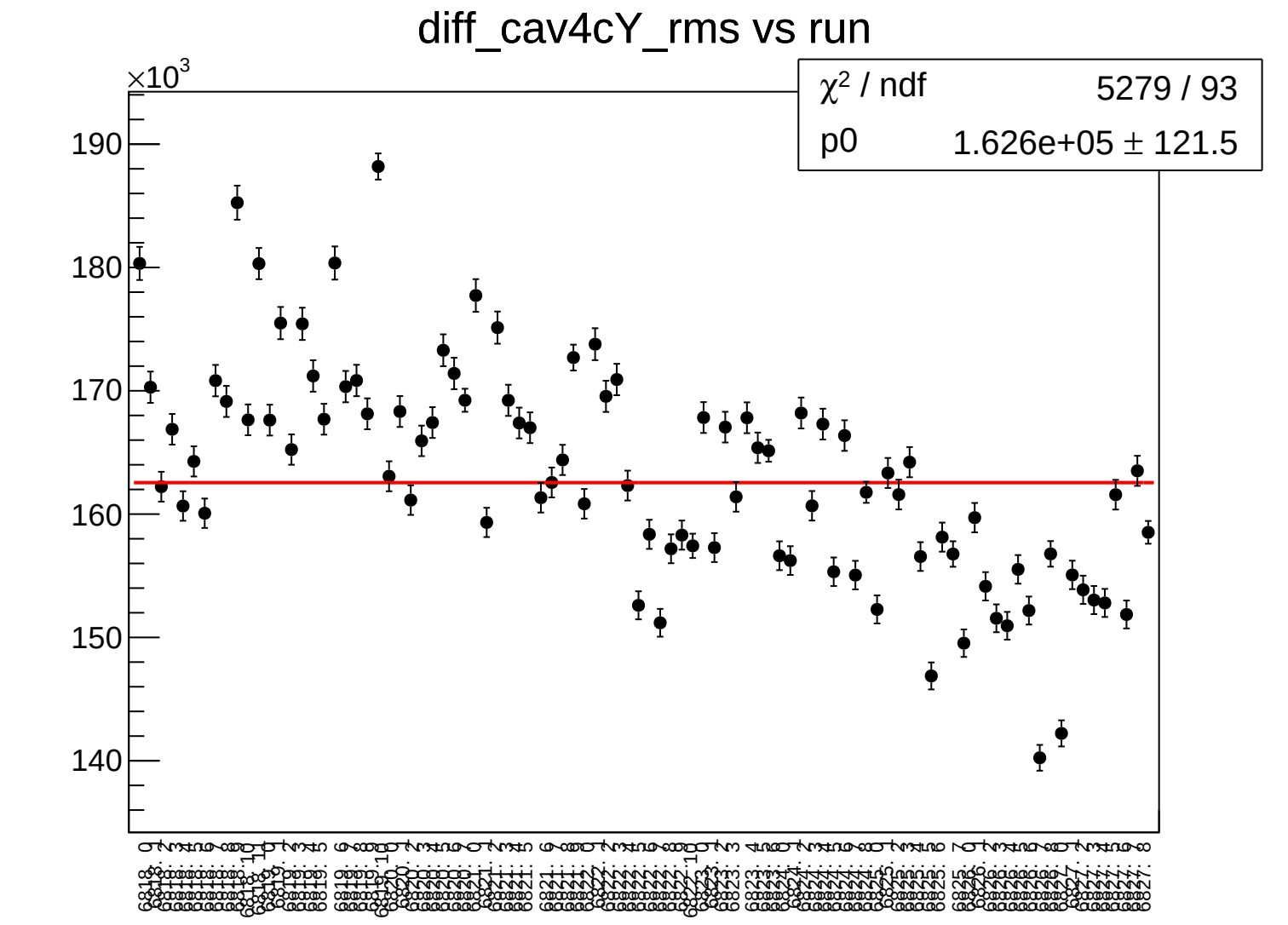

diff_cav4cX_mean vs run
χ² / ndf 72.57 / 93
p0 −384.6 ± 281.7
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −212.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

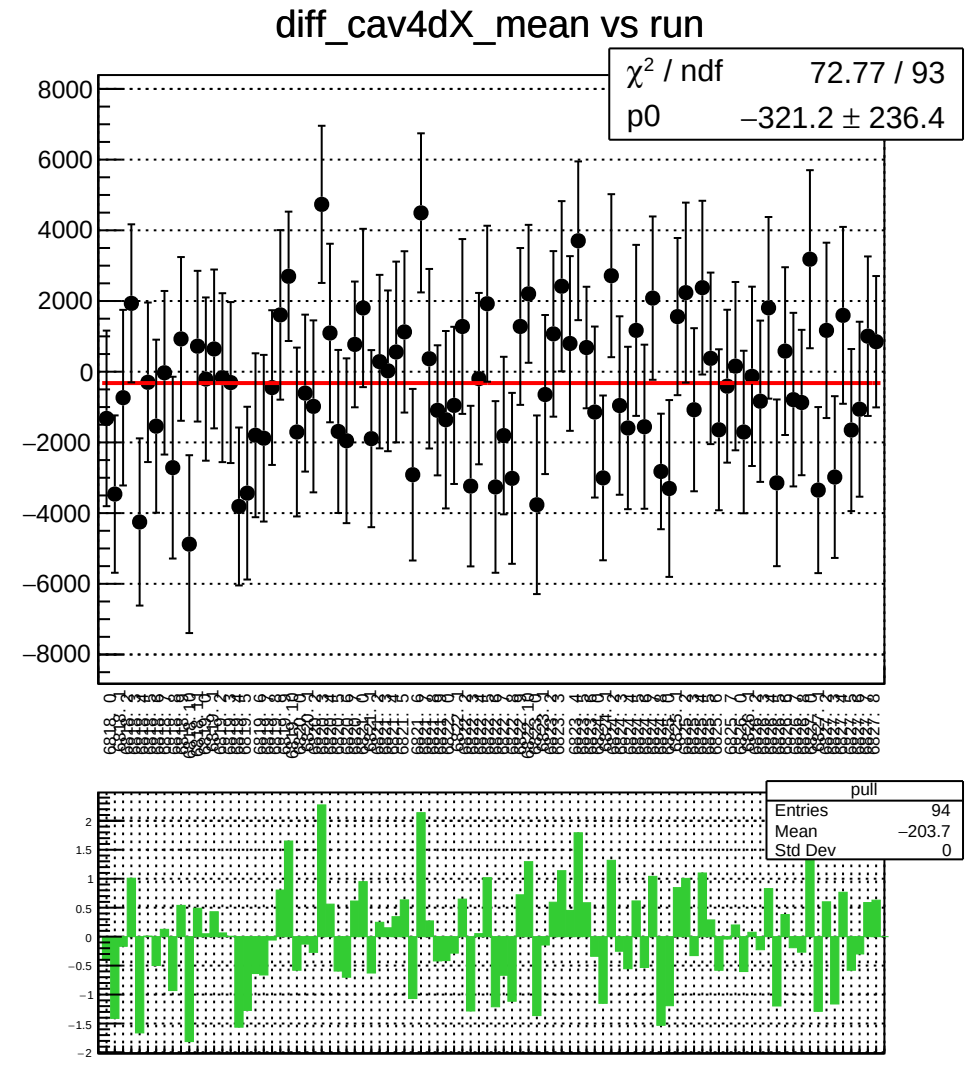

pull1D
Entries 94
Mean −0.009414
Std Dev 0.8786
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

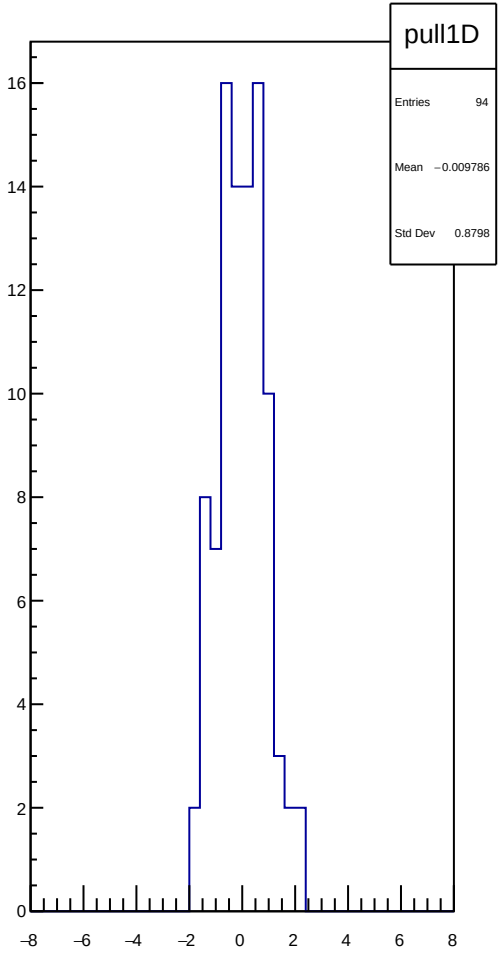

diff_cav4cX_rms vs run
×10^3
χ² / ndf 3366 / 93
p0 2.666e+05 ± 199.2
290
280
270
260
250

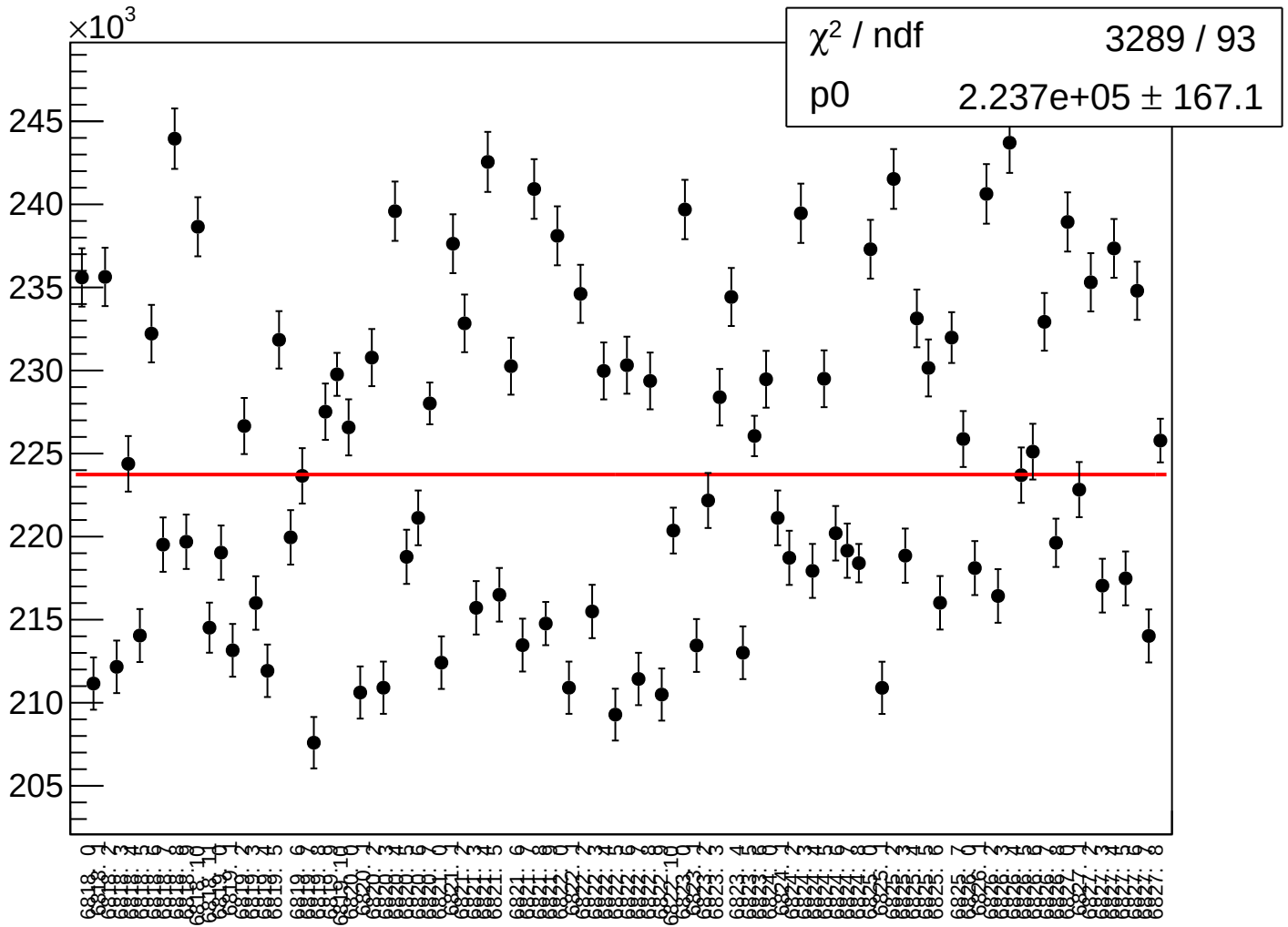

diff_cav4cY_mean vs run
χ² / ndf 95.05 / 93
p0 −348.5 ± 171.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −241.9
Std Dev 0
2
1
0
−1
−2

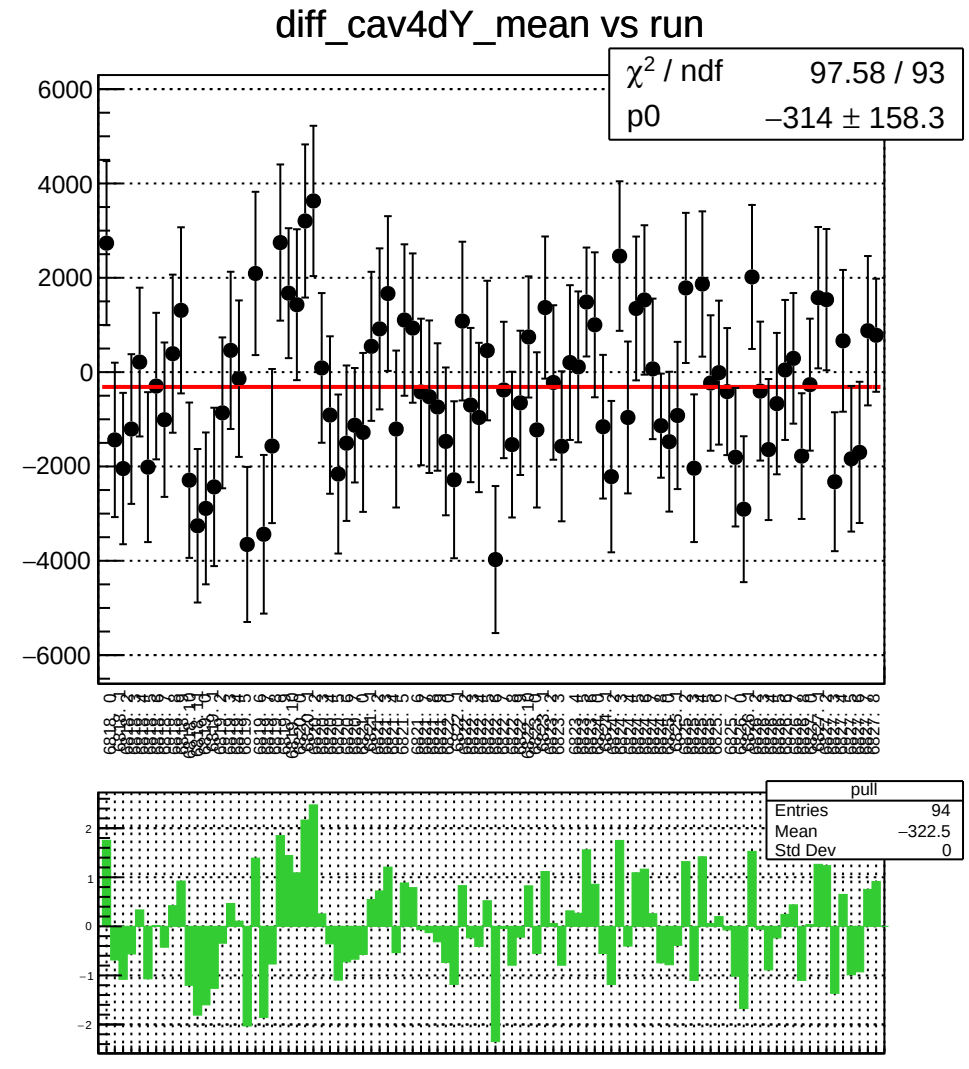

pull1D
Entries 94
Mean −0.00664
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

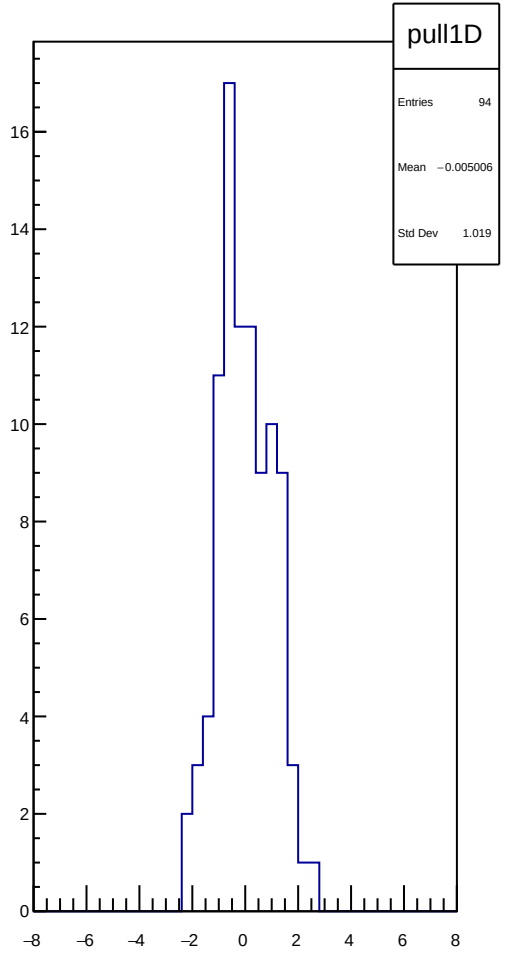

diff_cav4cY_rms vs run
×10^3
190
180
170
160
150
140
χ² / ndf 5279 / 93
p0 1.626e+05 ± 121.5

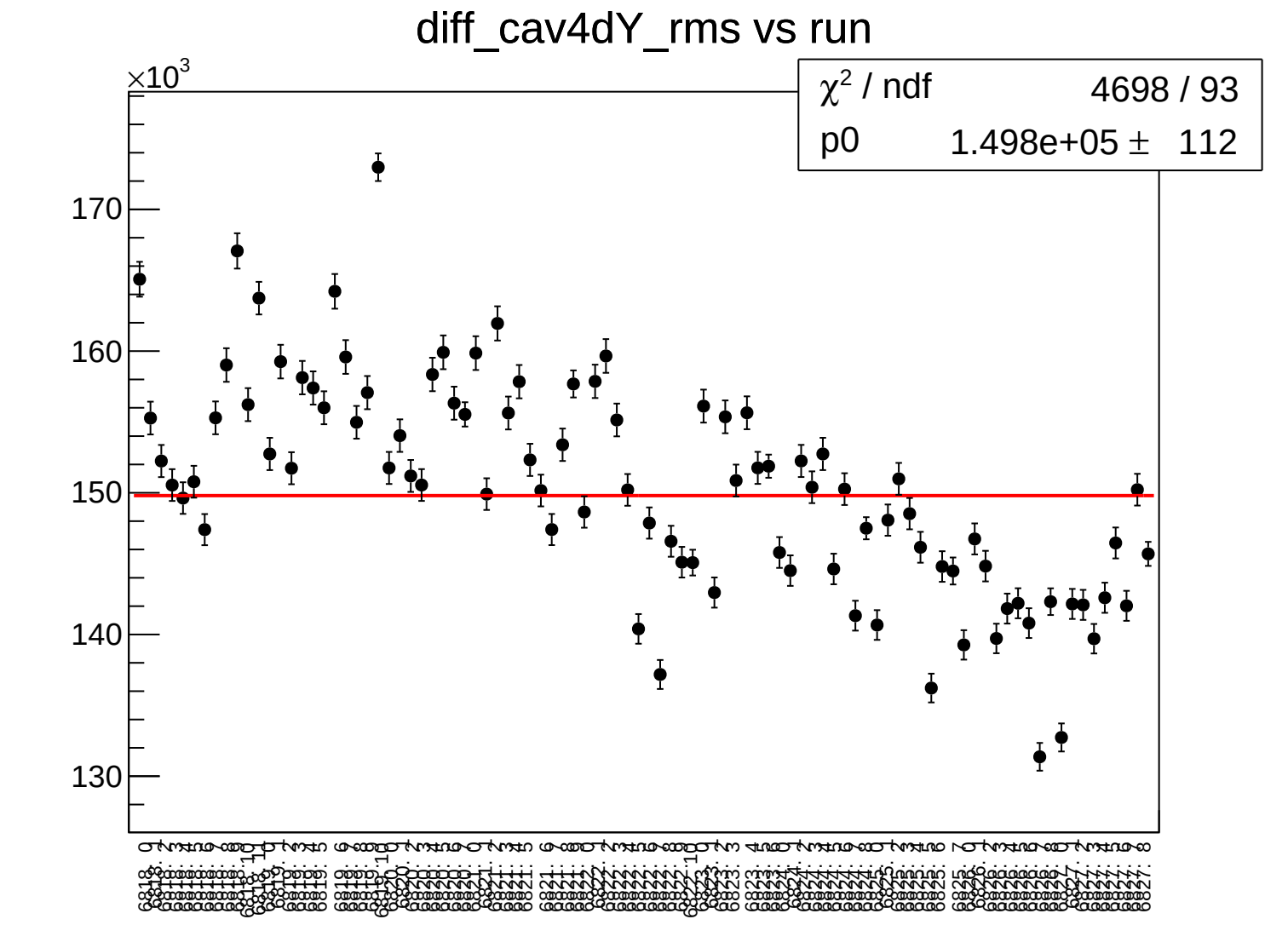

diff_cav4dX_mean vs run
χ² / ndf 72.77 / 93
p0 −321.2 ± 236.4
pull
Entries 94
Mean −203.7
Std Dev 0

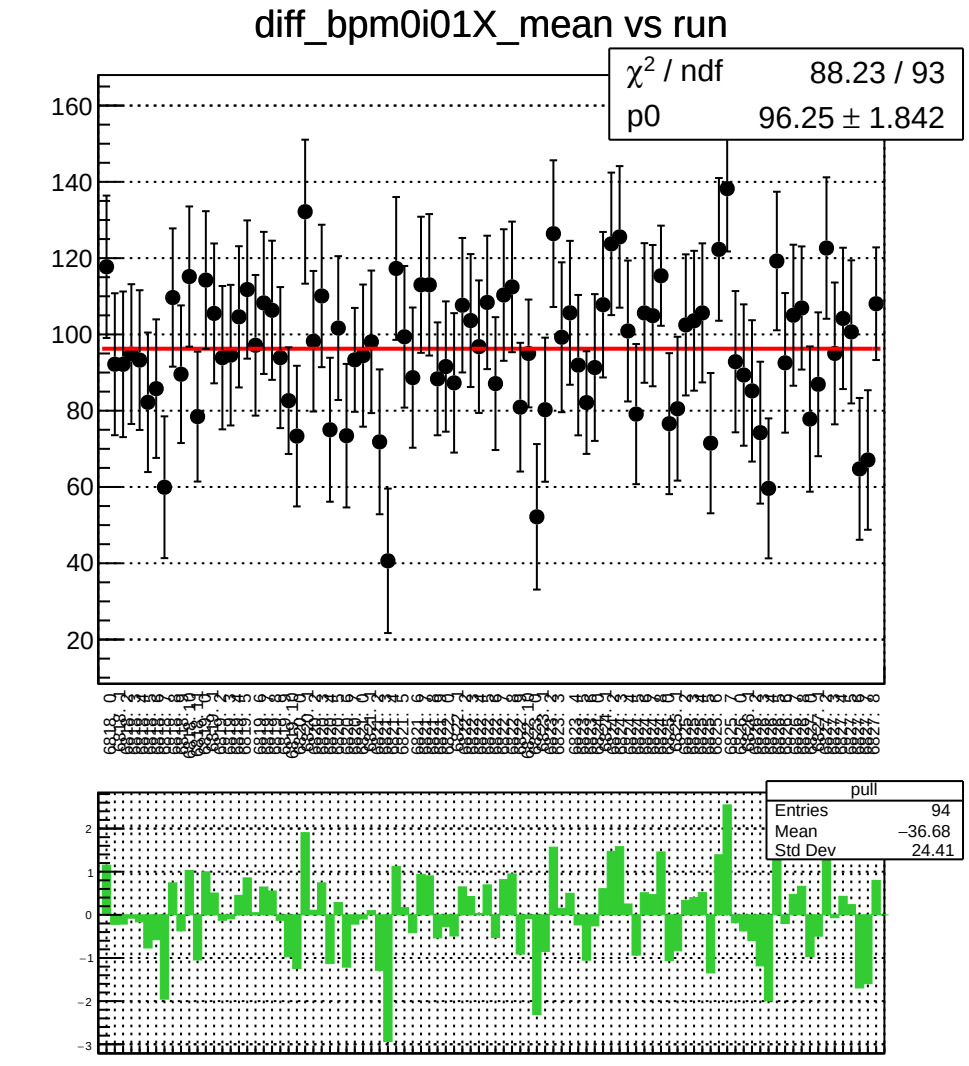

pull1D
Entries 94
Mean −0.009786
Std Dev 0.8798

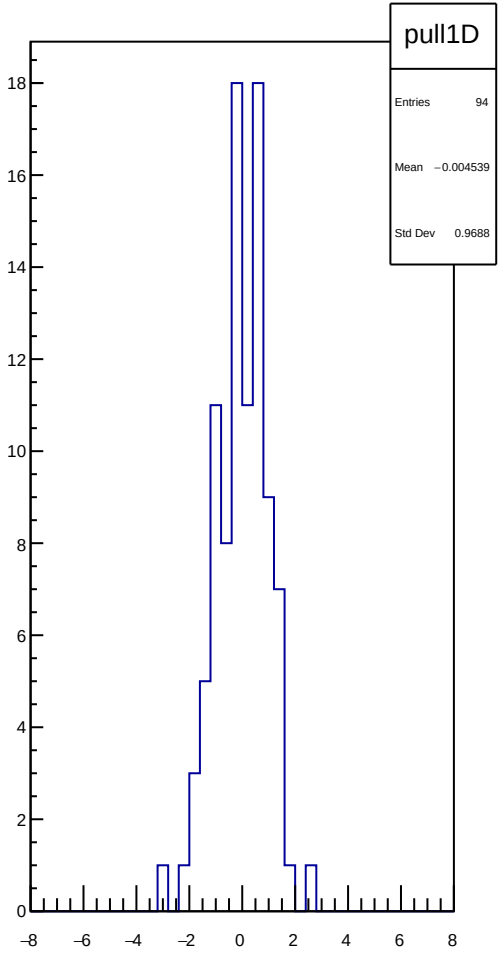

diff_cav4dX_rms vs run
×10^3
χ² / ndf 3289 / 93
p0 2.237e+05 ± 167.1
245
240
235
230
225
220
215
210
205

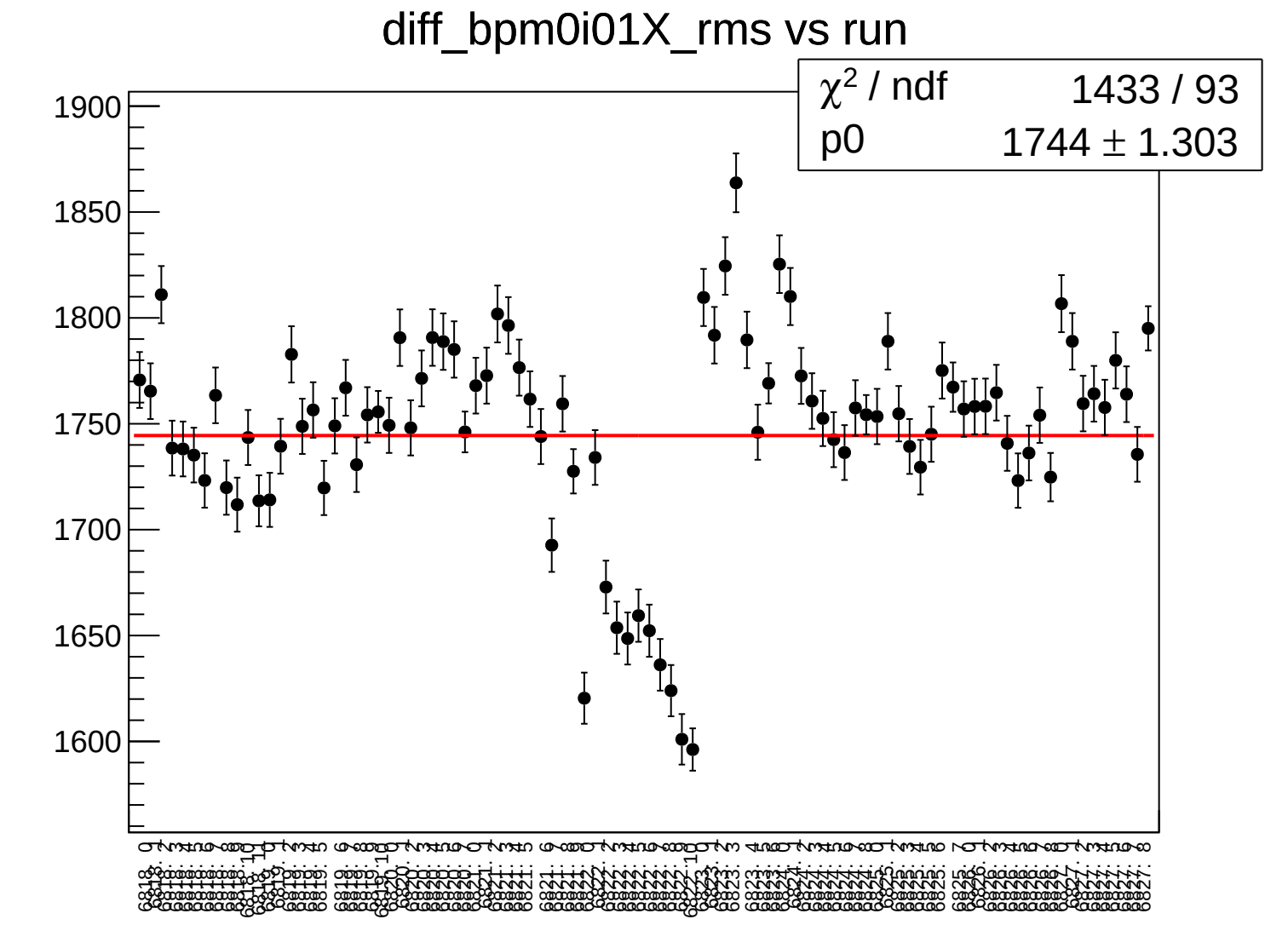

diff_cav4dY_mean vs run
χ² / ndf 97.58 / 93
p0 −314 ± 158.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −322.5
Std Dev 0
2
1
0
−1
−2

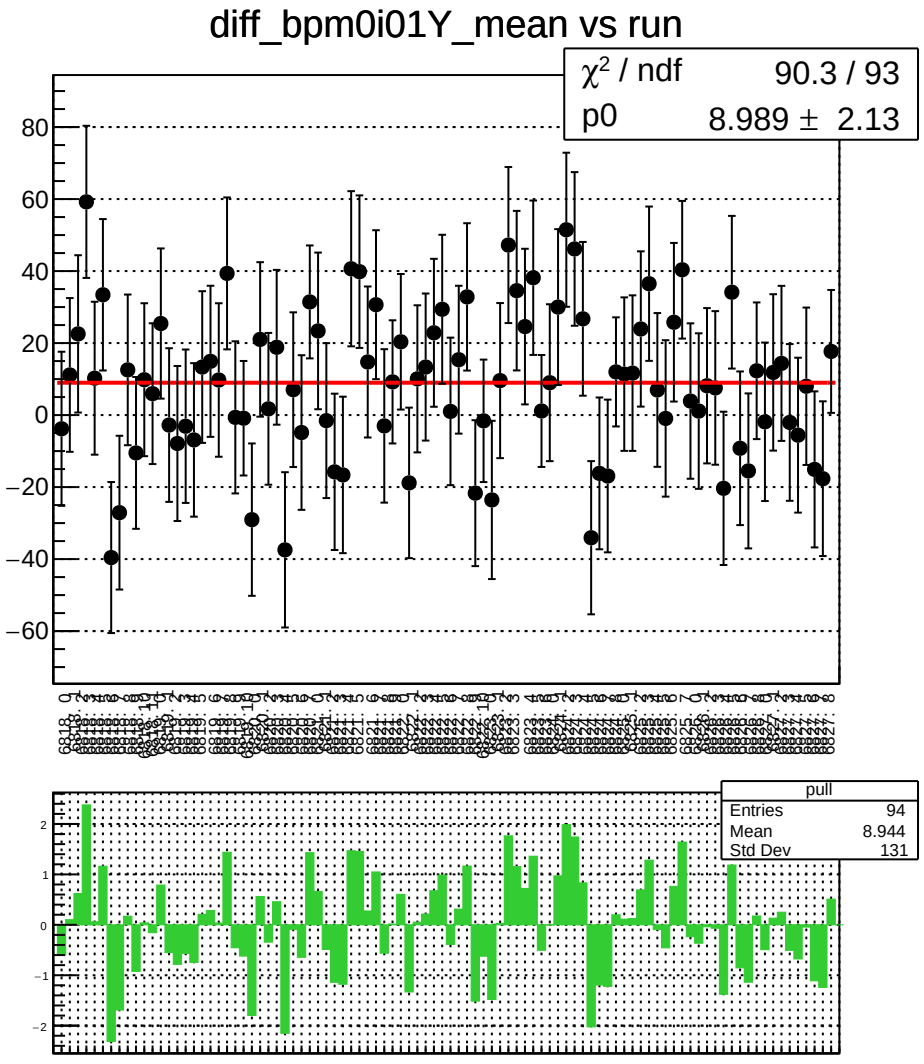

pull1D
Entries 94
Mean −0.005006
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

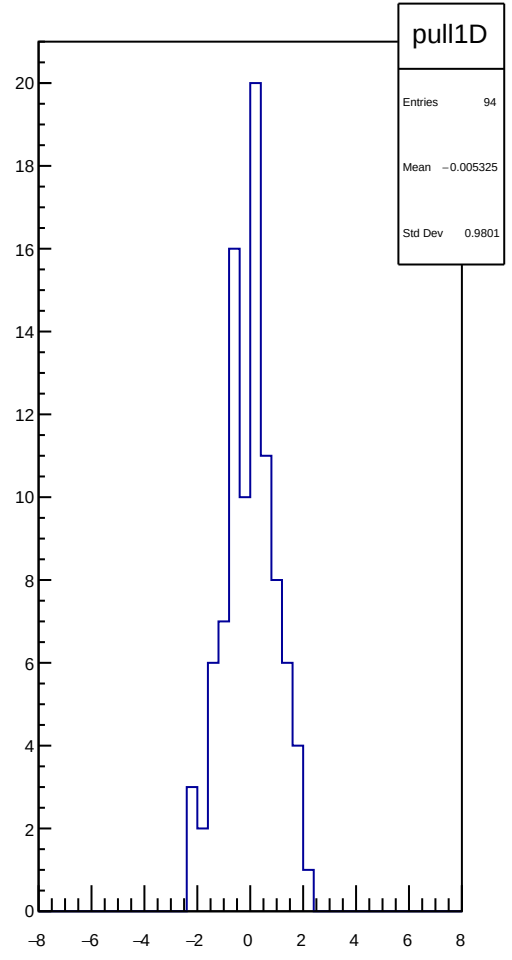

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 4698 / 93
p0 1.498e+05 ± 112
170
160
150
140
130

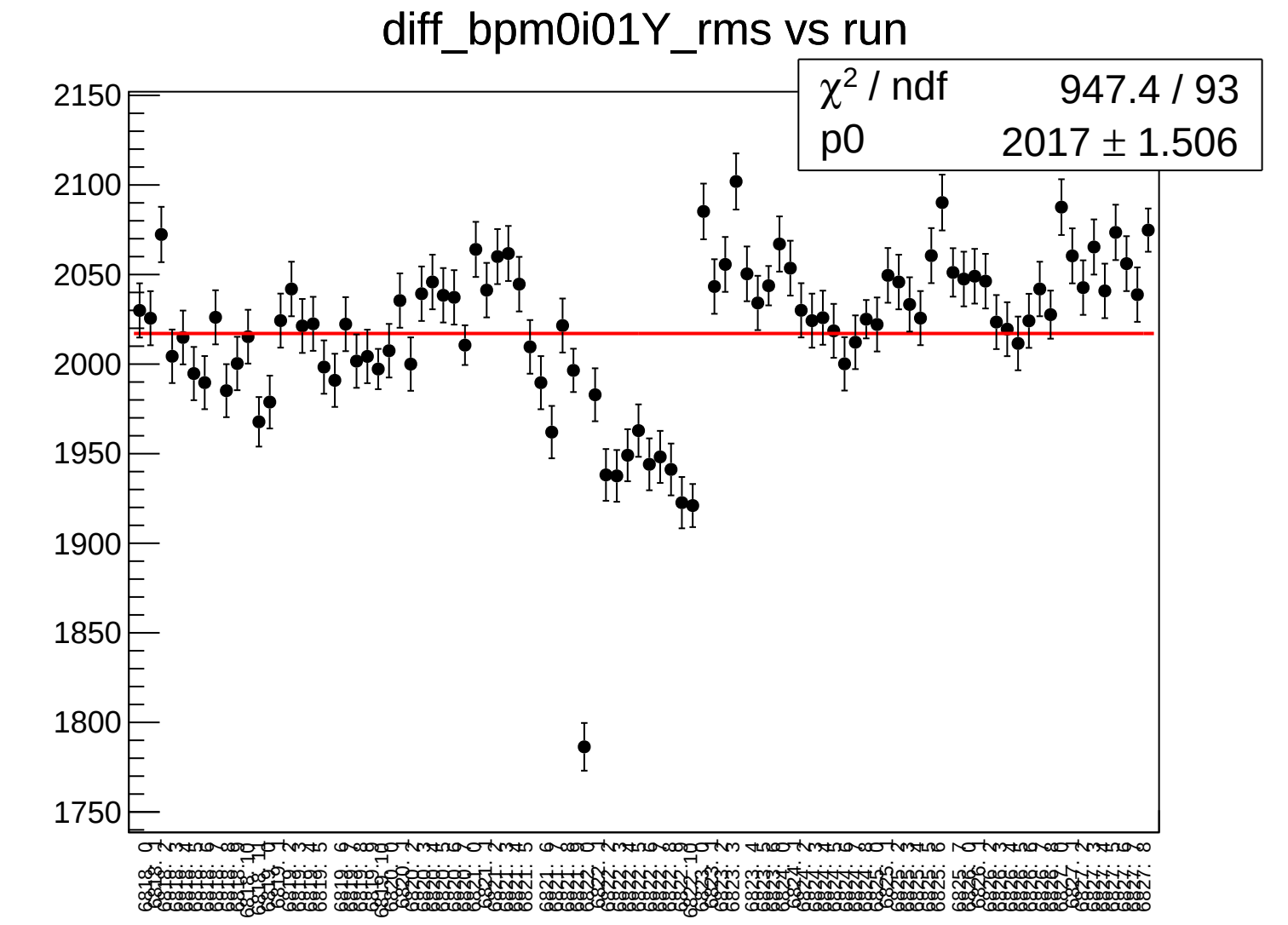

diff_bpm0i01X_mean vs run
χ² / ndf 88.23 / 93
p0 96.25 ± 1.842
pull
Entries 94
Mean −36.68
Std Dev 24.41

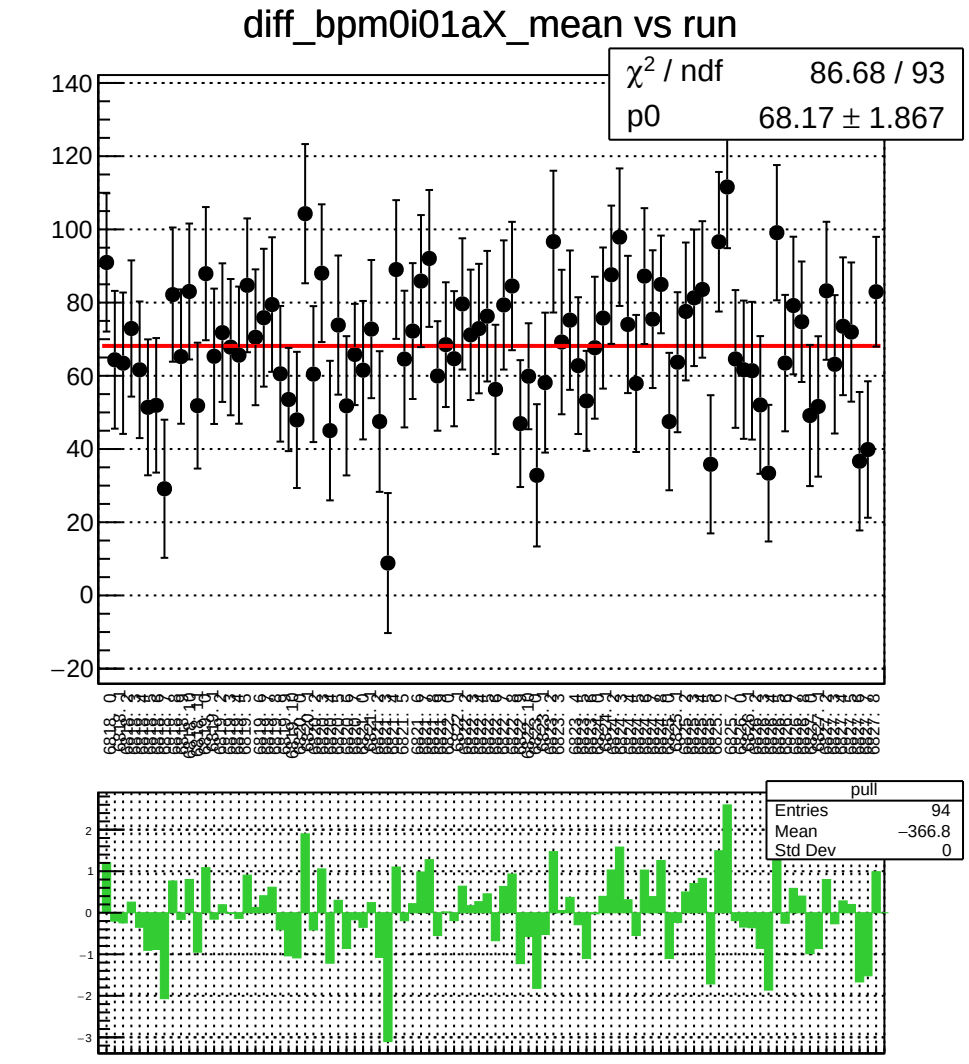

pull1D
Entries 94
Mean −0.004539
Std Dev 0.9688

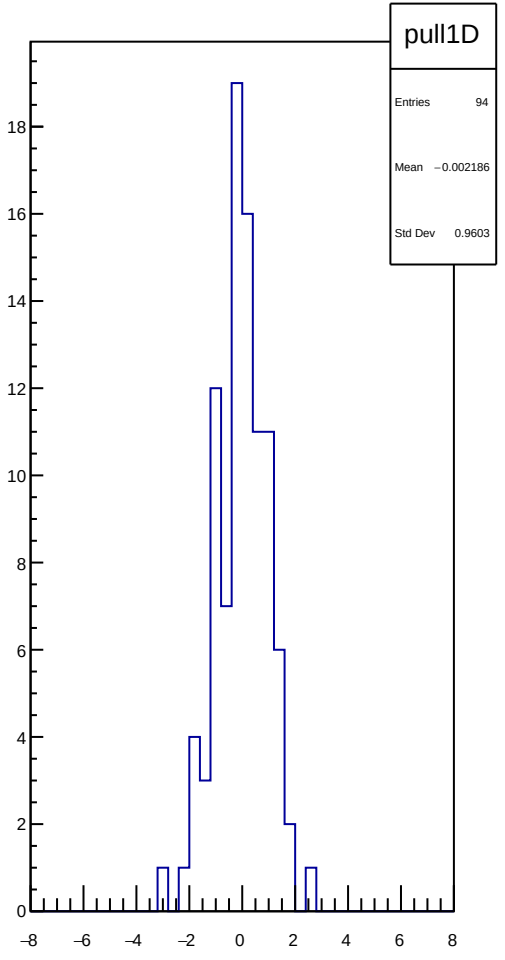

diff_bpm0i01X_rms vs run
χ² / ndf 1433 / 93
p0 1744 ± 1.303
1900
1850
1800
1750
1700
1650
1600

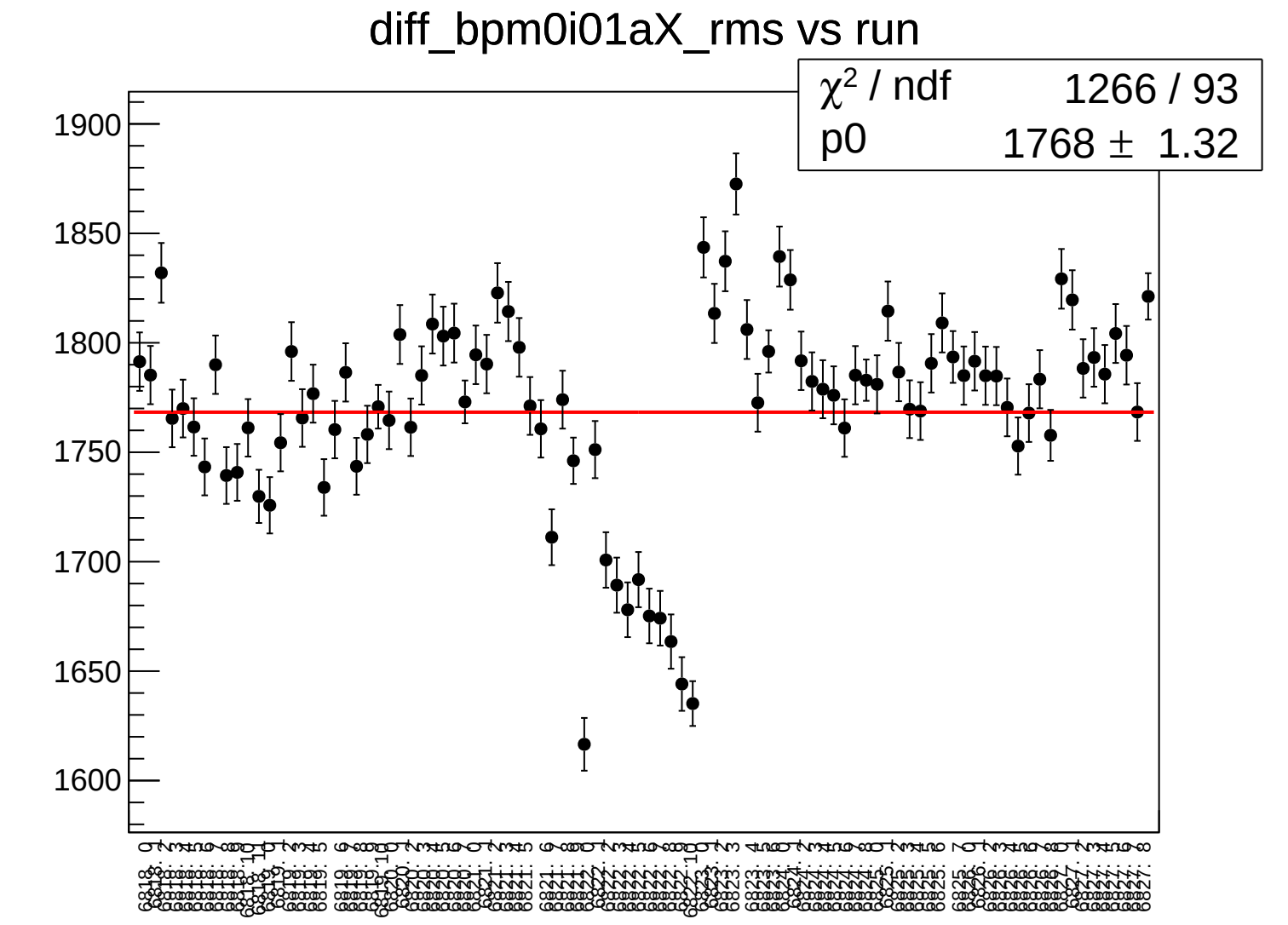

diff_bpm0i01Y_mean vs run
χ^2 / ndf 90.3 / 93
p0 8.989 ± 2.13
pull
Entries 94
Mean 8.944
Std Dev 131

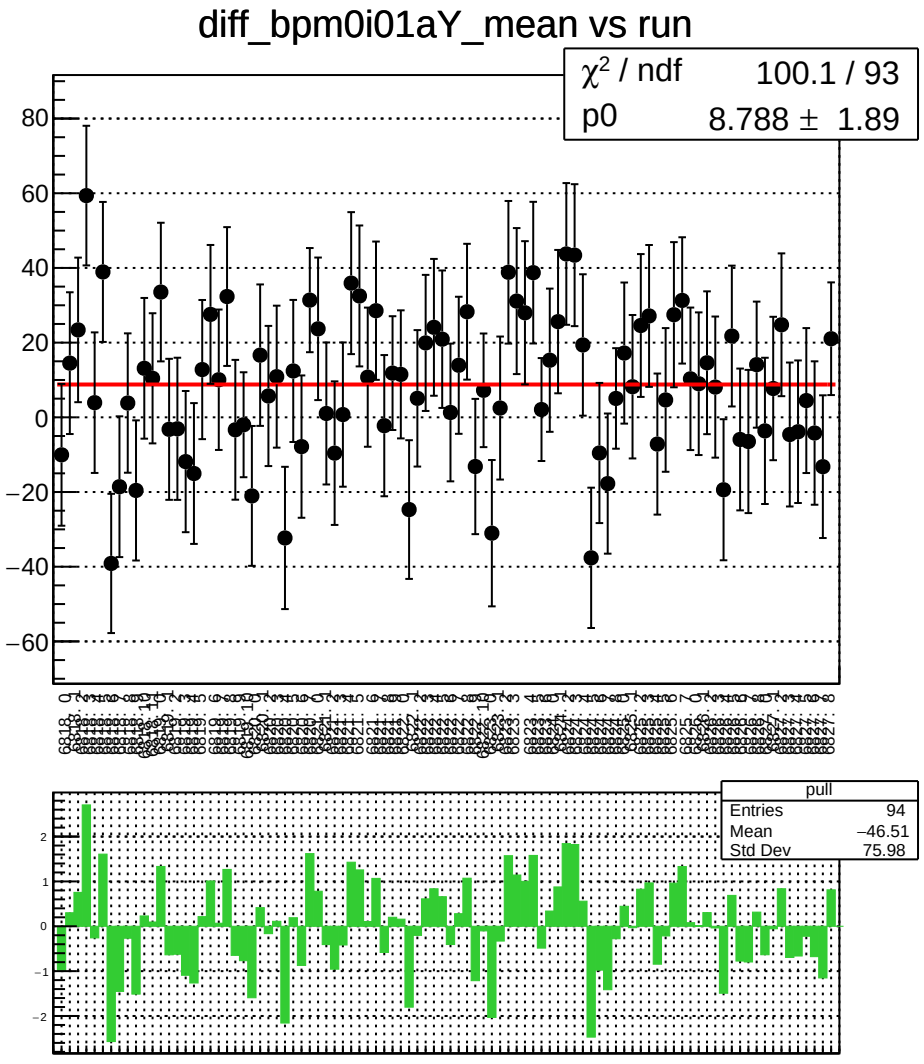

pull1D
Entries 94
Mean −0.005325
Std Dev 0.9801

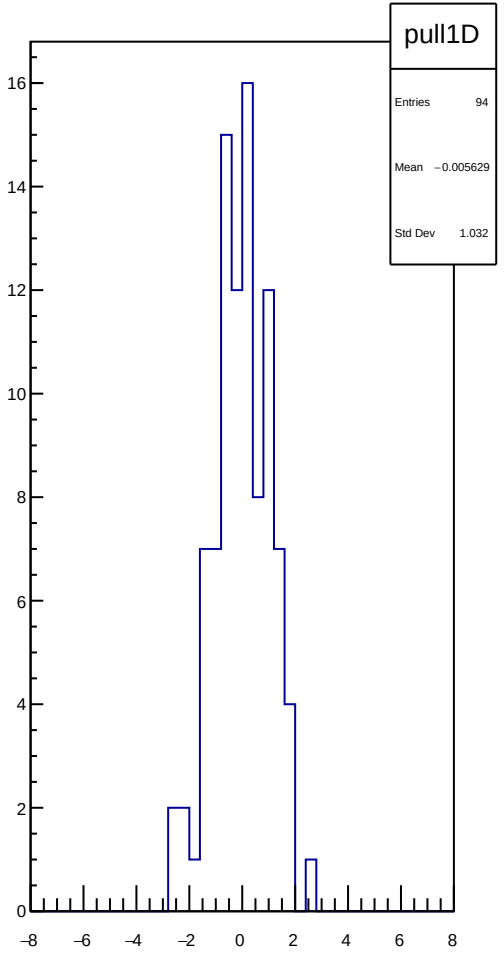

diff_bpm0i01Y_rms vs run
χ² / ndf 947.4 / 93
p0 2017 ± 1.506
2150
2100
2050
2000
1950
1900
1850
1800
1750

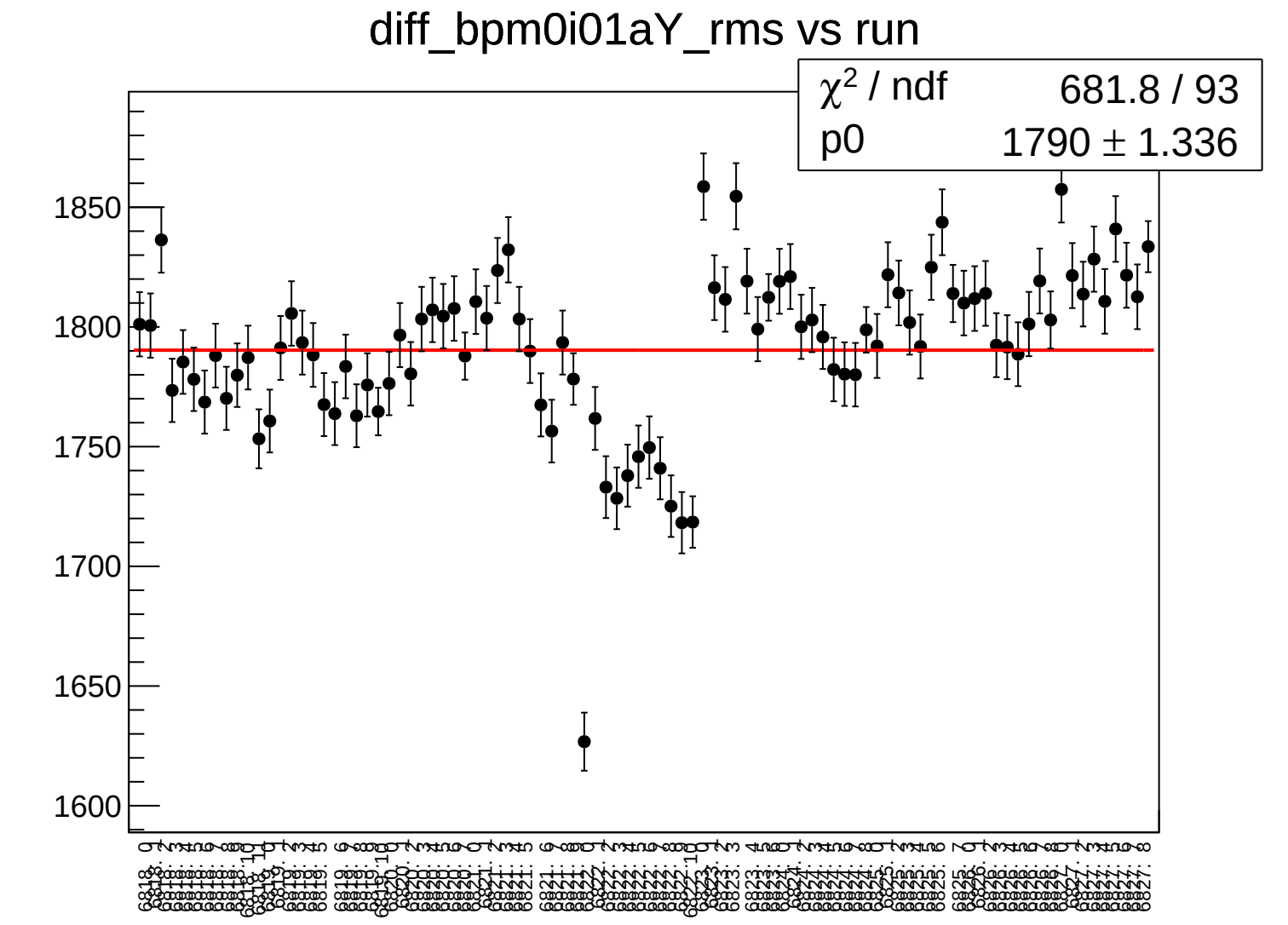

diff_bpm0i01aX_mean vs run
χ² / ndf 86.68 / 93
p0 68.17 ± 1.867
pull
Entries 94
Mean −366.8
Std Dev 0

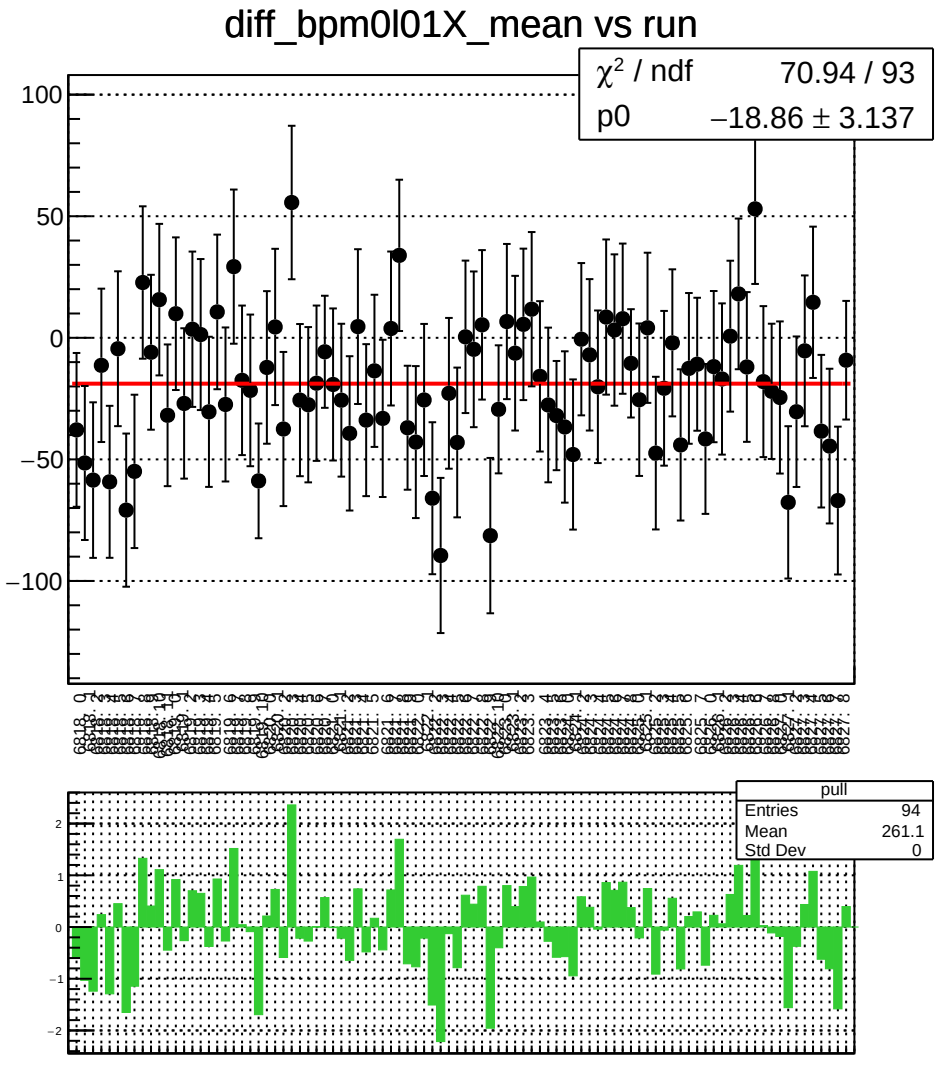

pull1D
Entries 94
Mean −0.002186
Std Dev 0.9603

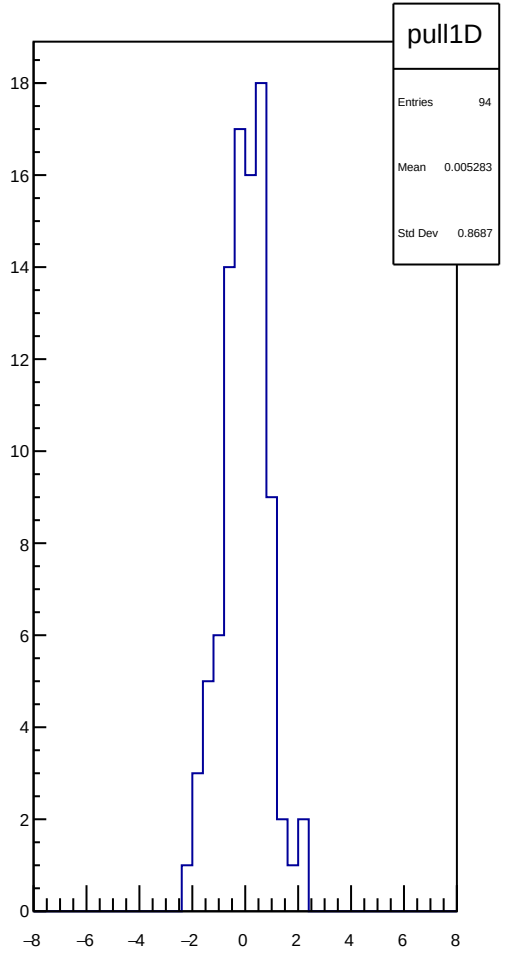

diff_bpm0i01aX_rms vs run
χ² / ndf 1266 / 93
p0 1768 ± 1.32
1900
1850
1800
1750
1700
1650
1600

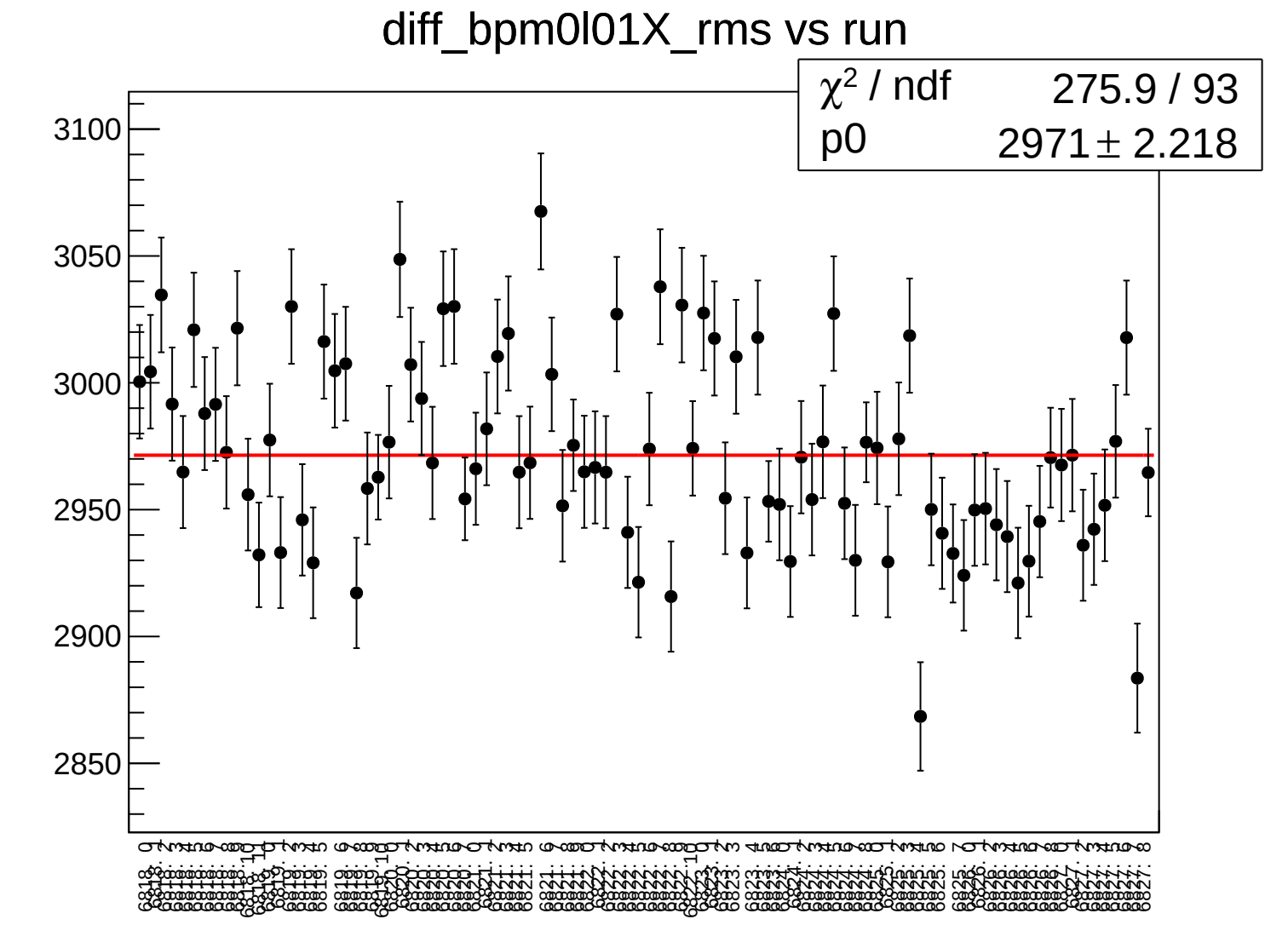

diff_bpm0i01aY_mean vs run
χ² / ndf 100.1 / 93
p0 8.788 ± 1.89
pull
Entries 94
Mean −46.51
Std Dev 75.98

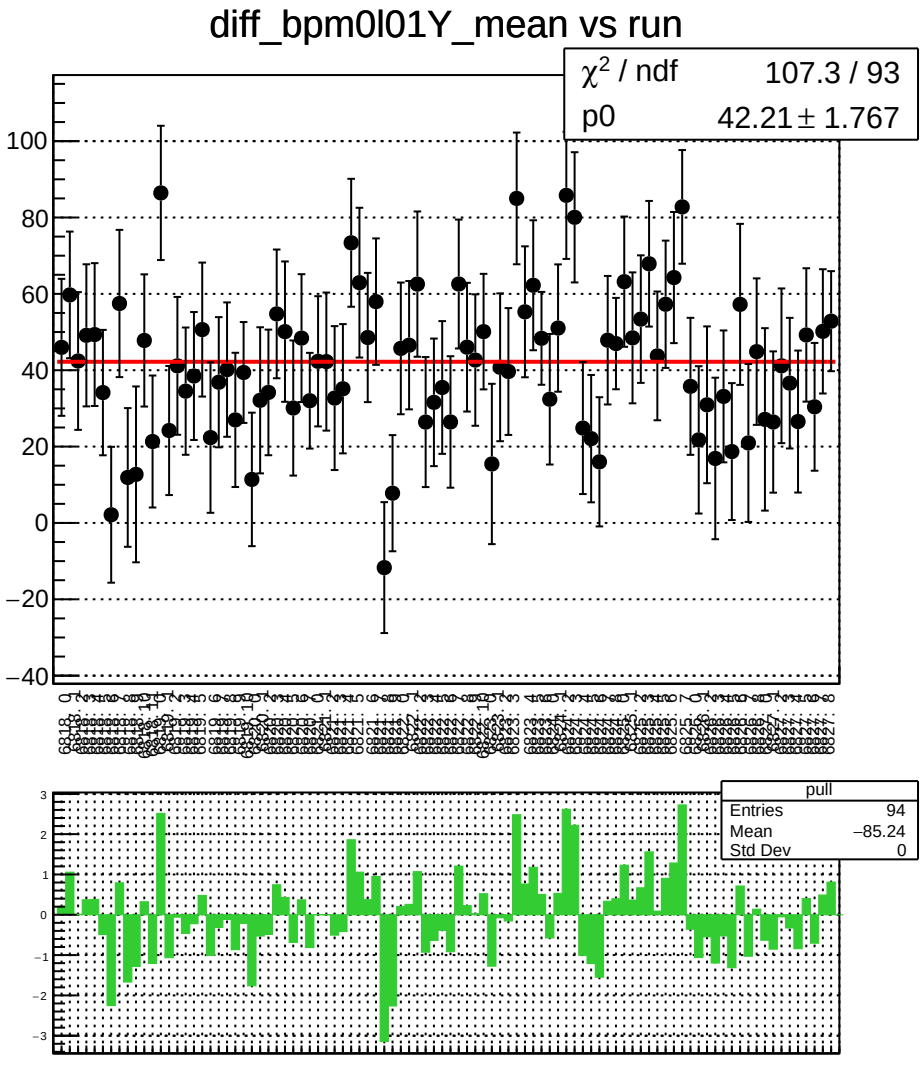

pull1D
Entries 94
Mean −0.005629
Std Dev 1.032

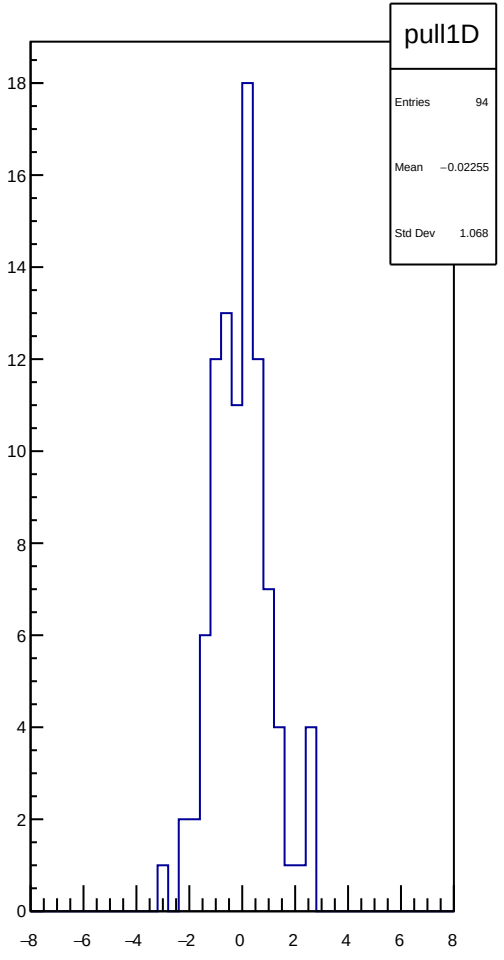

diff_bpm0i01aY_rms vs run
χ² / ndf 681.8 / 93
p0 1790 ± 1.336
1850
1800
1750
1700
1650
1600

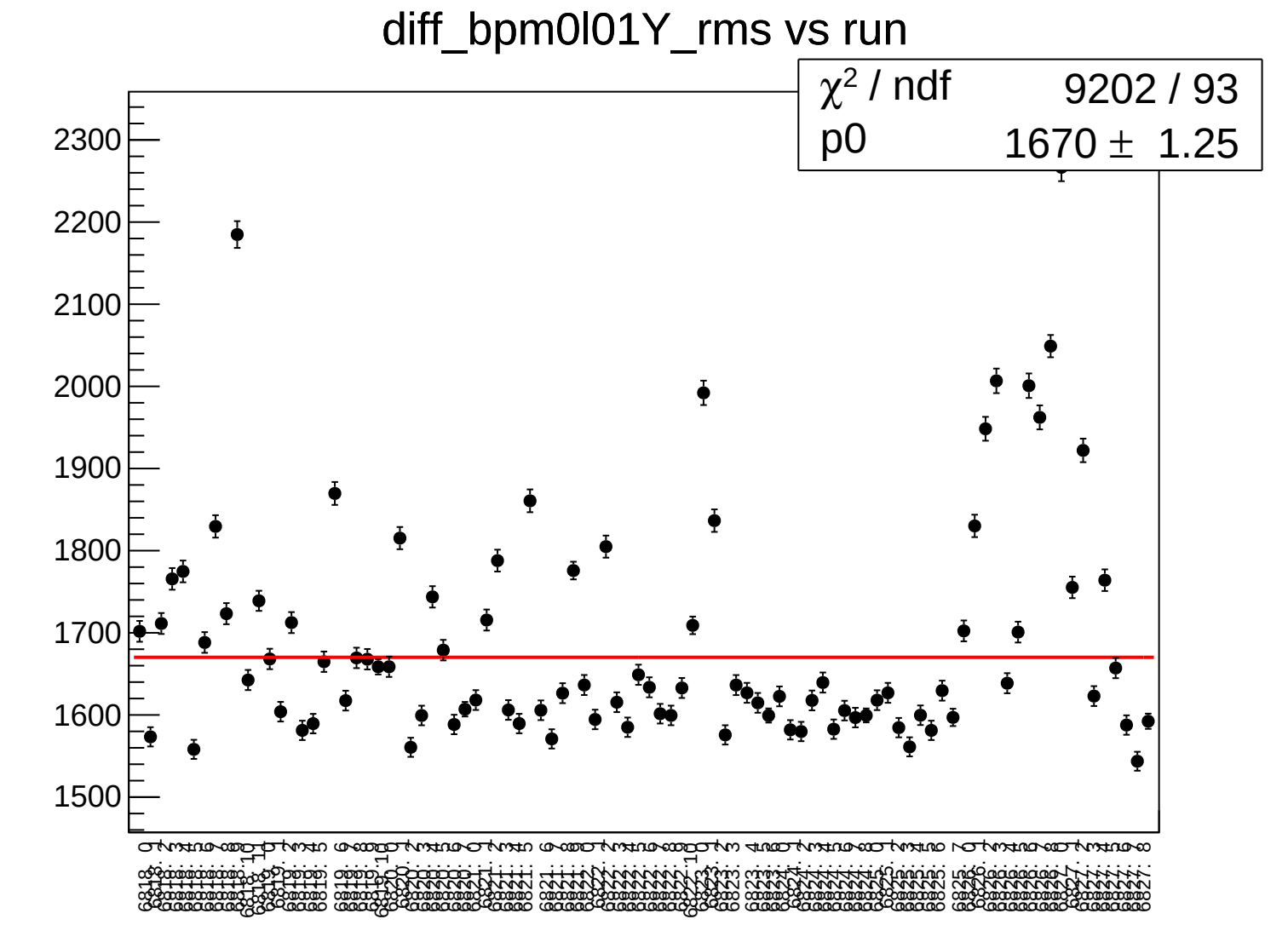

diff_bpm0l01X_mean vs run
χ² / ndf 70.94 / 93
p0 −18.86 ± 3.137
100
50
0
−50
−100
pull
Entries 94
Mean 261.1
Std Dev 0
2
1
0
−1
−2

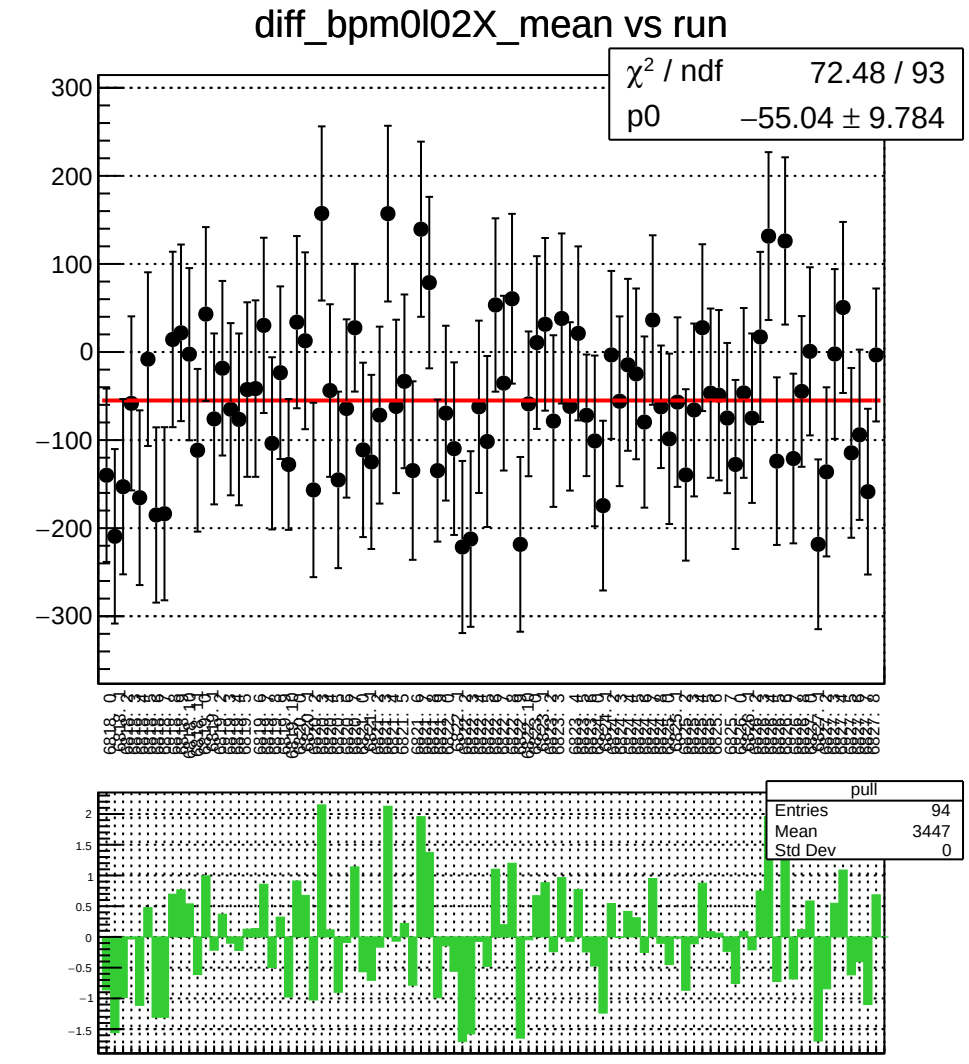

pull1D
Entries 94
Mean 0.005283
Std Dev 0.8687
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

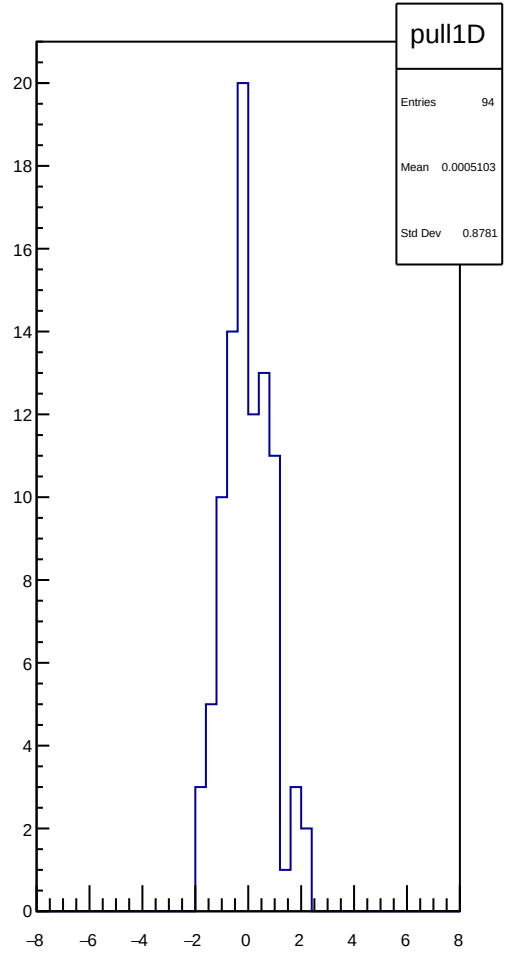

diff_bpm0l01X_rms vs run
χ² / ndf 275.9 / 93
p0 2971 ± 2.218
3100
3050
3000
2950
2900
2850

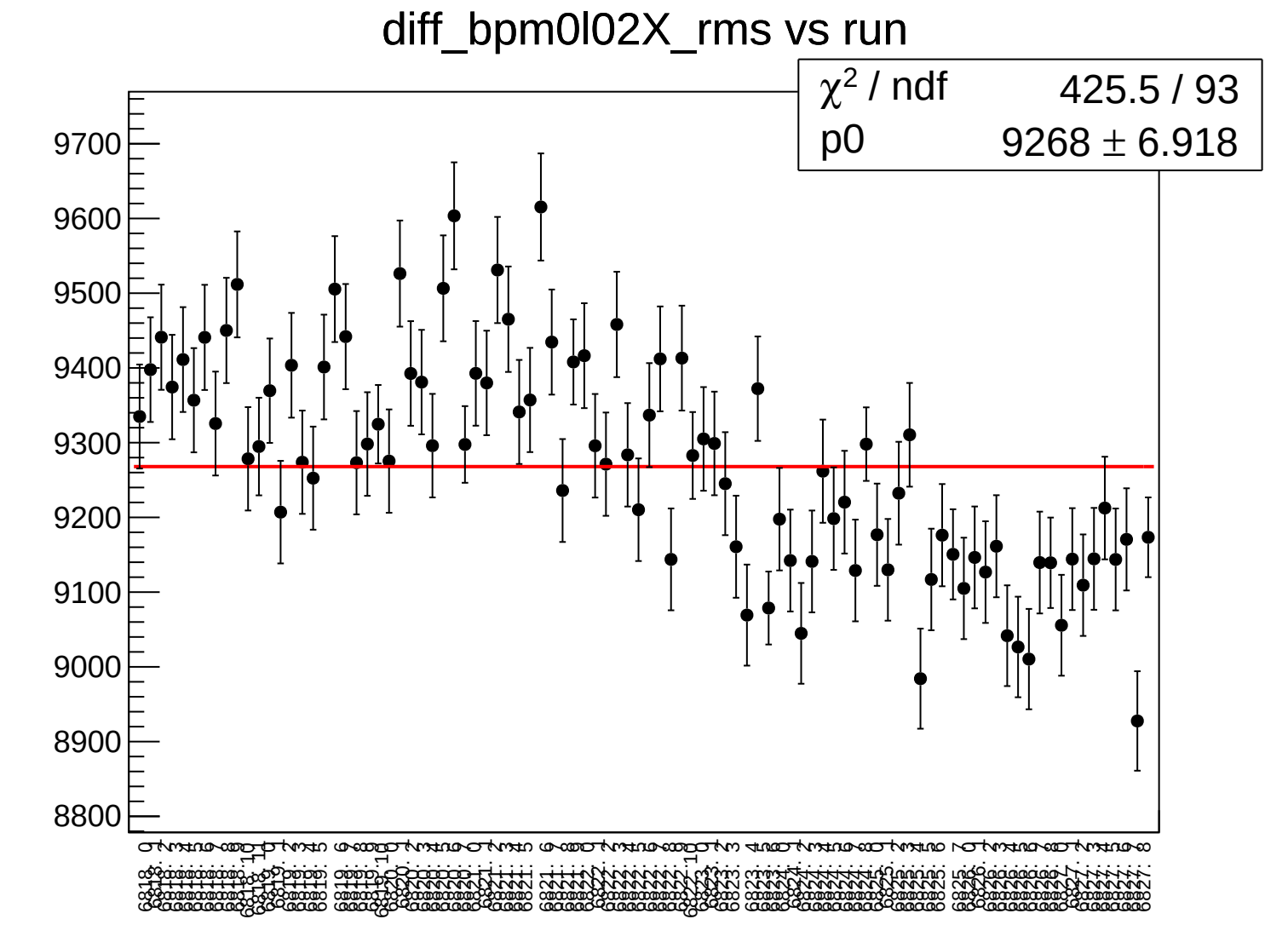

diff_bpm0l01Y_mean vs run
χ² / ndf 107.3 / 93
p0 42.21 ± 1.767
pull
Entries 94
Mean −85.24
Std Dev 0

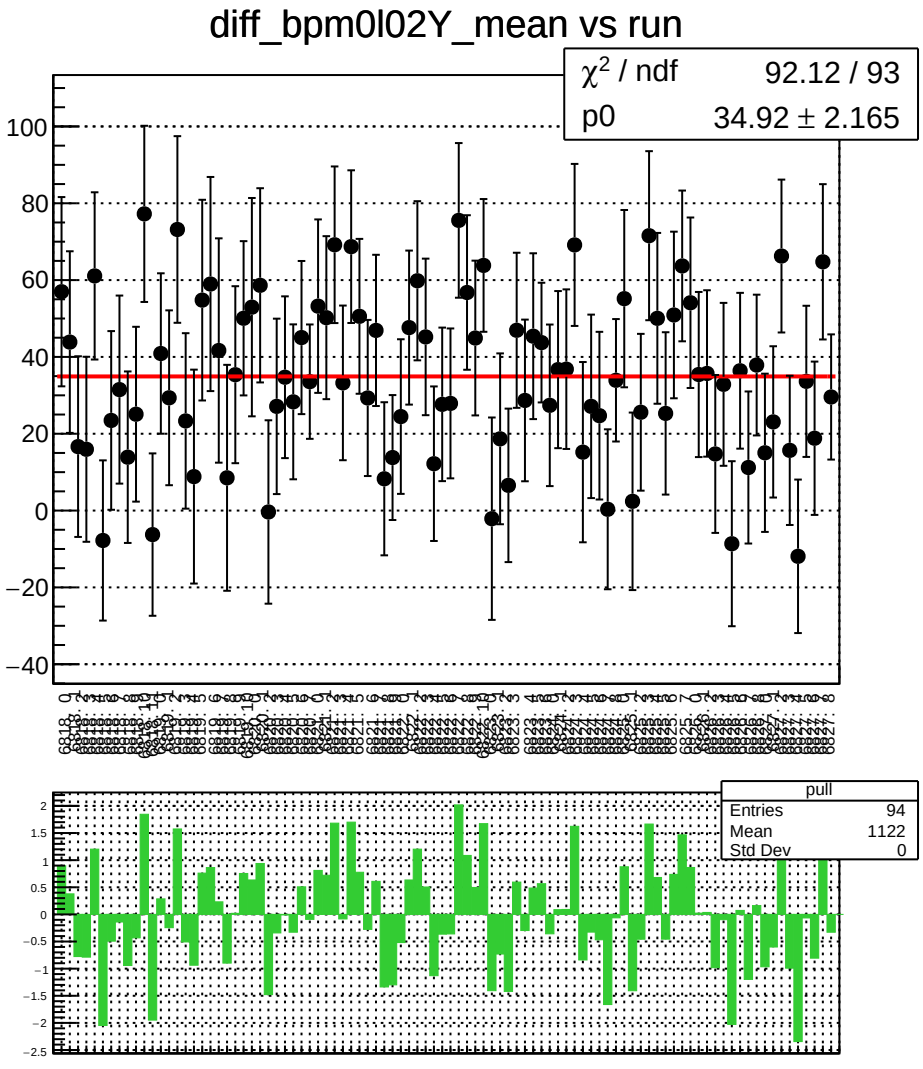

pull1D
Entries 94
Mean −0.02255
Std Dev 1.068

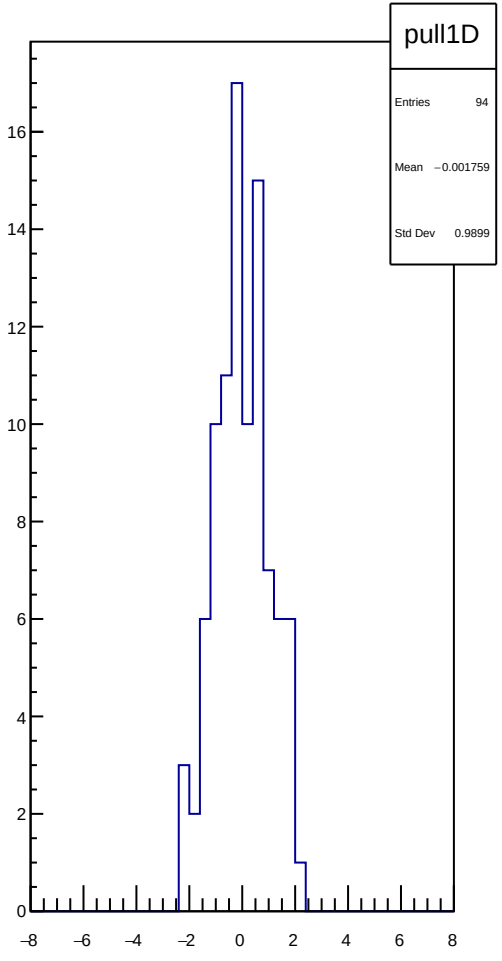

diff_bpm0l01Y_rms vs run
χ² / ndf 9202 / 93
p0 1670 ± 1.25
2300
2200
2100
2000
1900
1800
1700
1600
1500

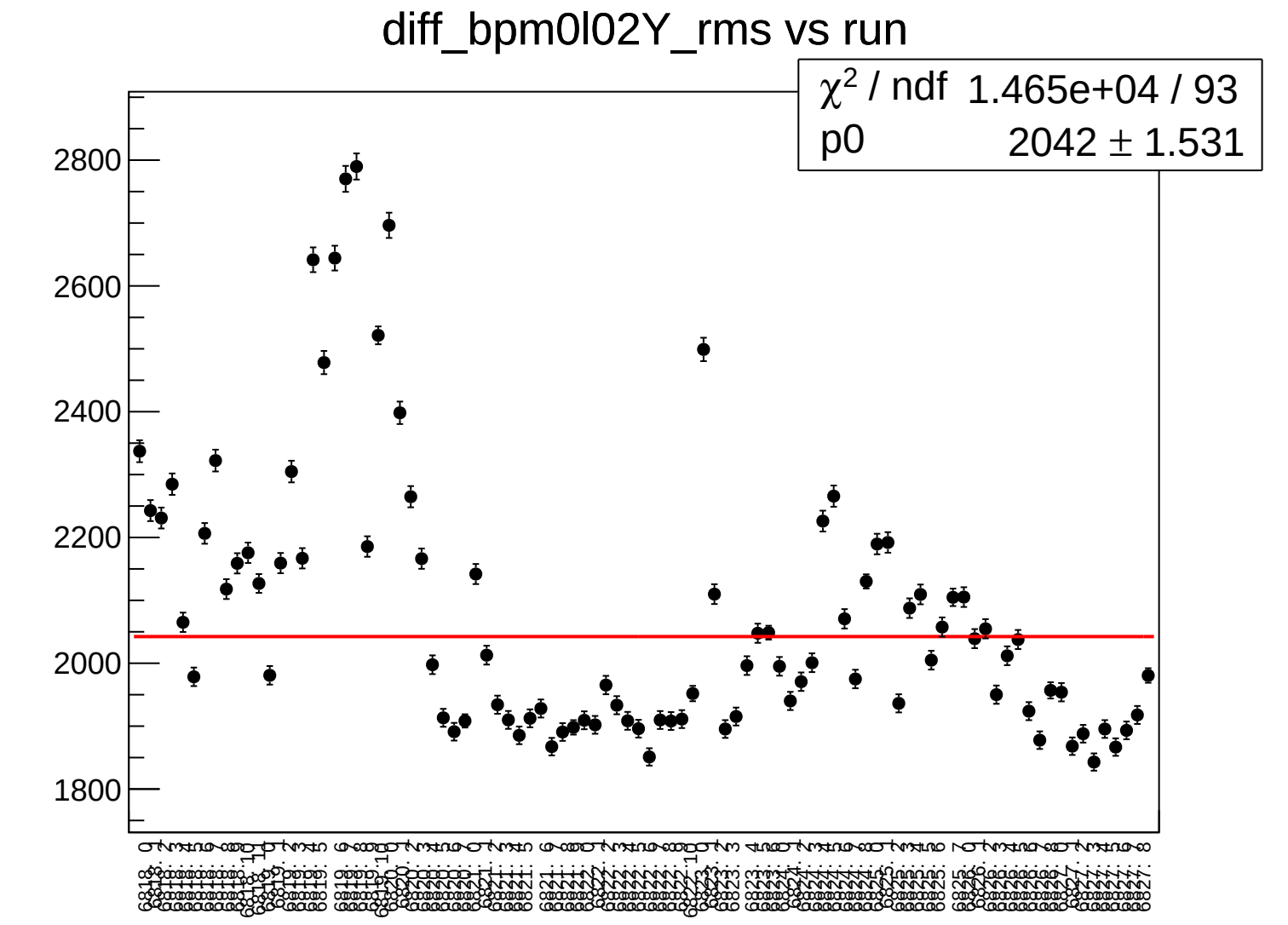

diff_bpm0l02X_mean vs run
χ² / ndf 72.48 / 93
p0 −55.04 ± 9.784
pull
Entries 94
Mean 3447
Std Dev 0

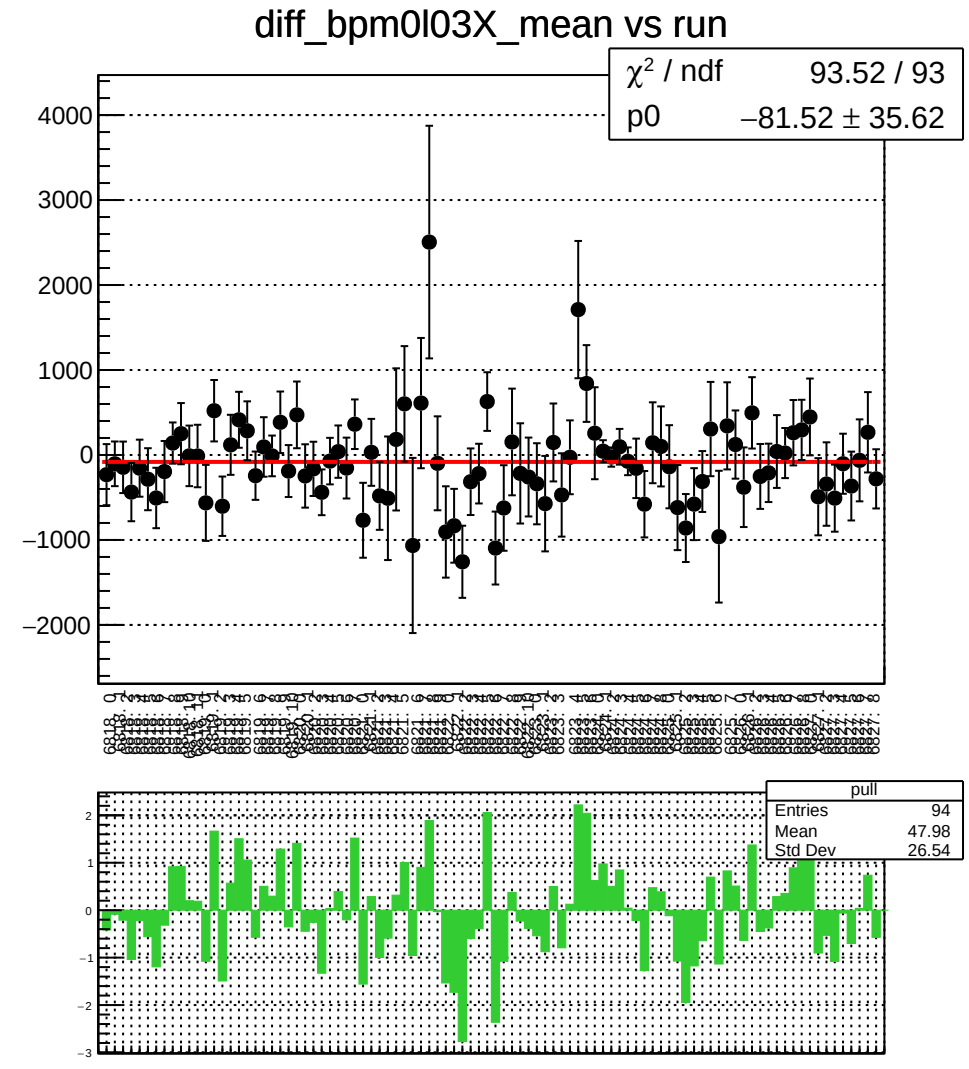

pull1D
Entries 94
Mean 0.0005103
Std Dev 0.8781

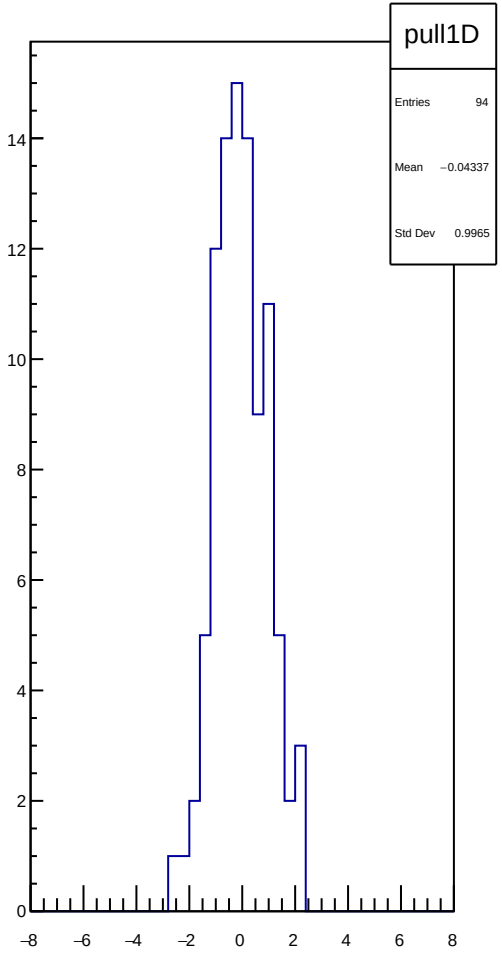

diff_bpm0l02X_rms vs run
χ² / ndf 425.5 / 93
p0 9268 ± 6.918
9700
9600
9500
9400
9300
9200
9100
9000
8900
8800

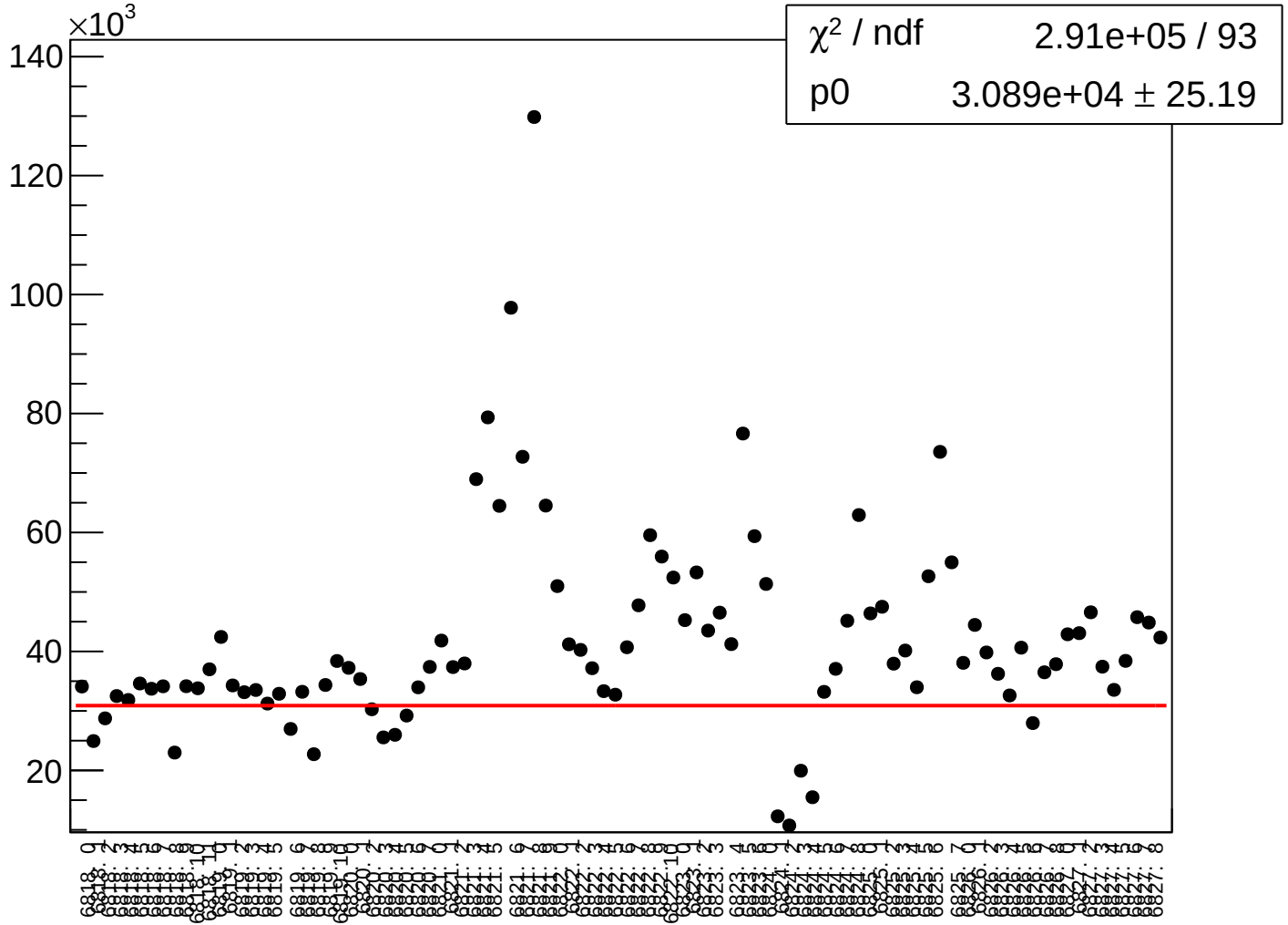

diff_bpm0l02Y_mean vs run
χ² / ndf 92.12 / 93
p0 34.92 ± 2.165
pull
Entries 94
Mean 1122
Std Dev 0

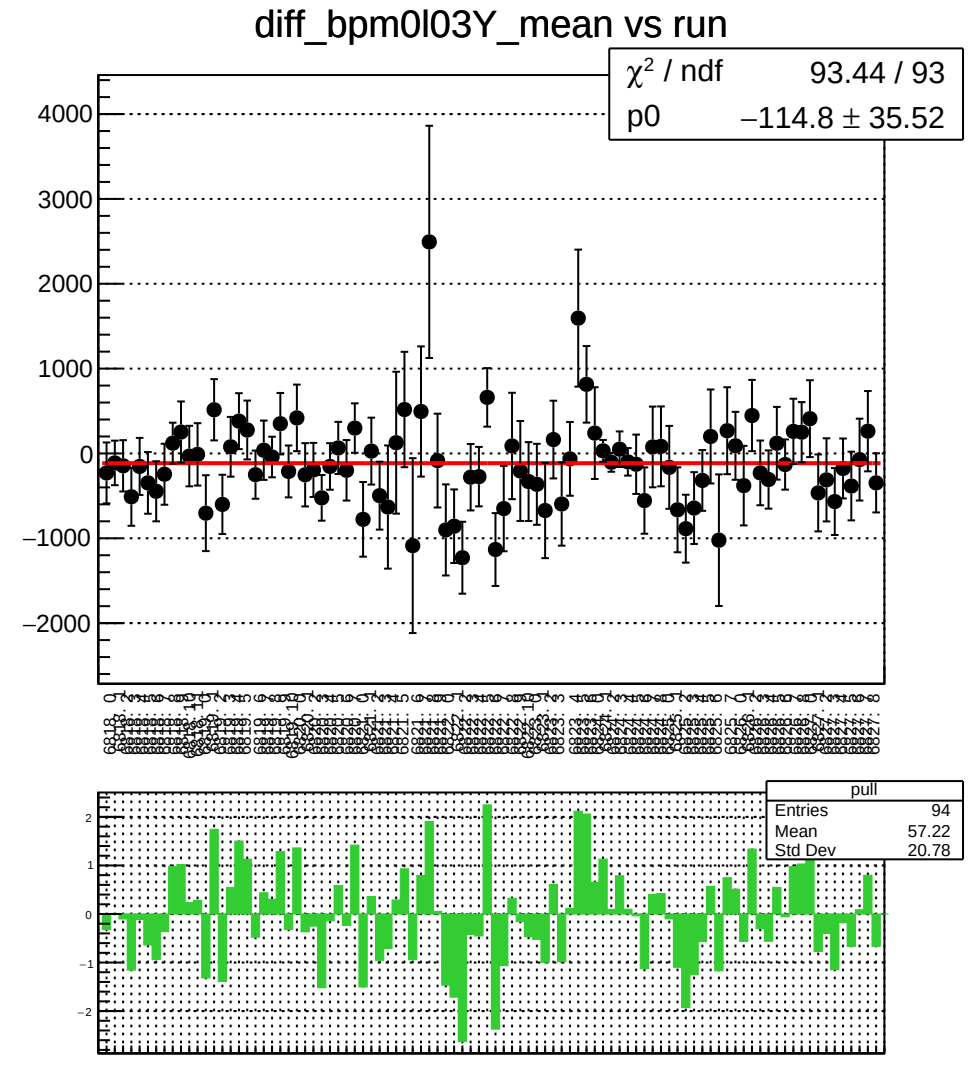

pull1D
Entries 94
Mean −0.001759
Std Dev 0.9899

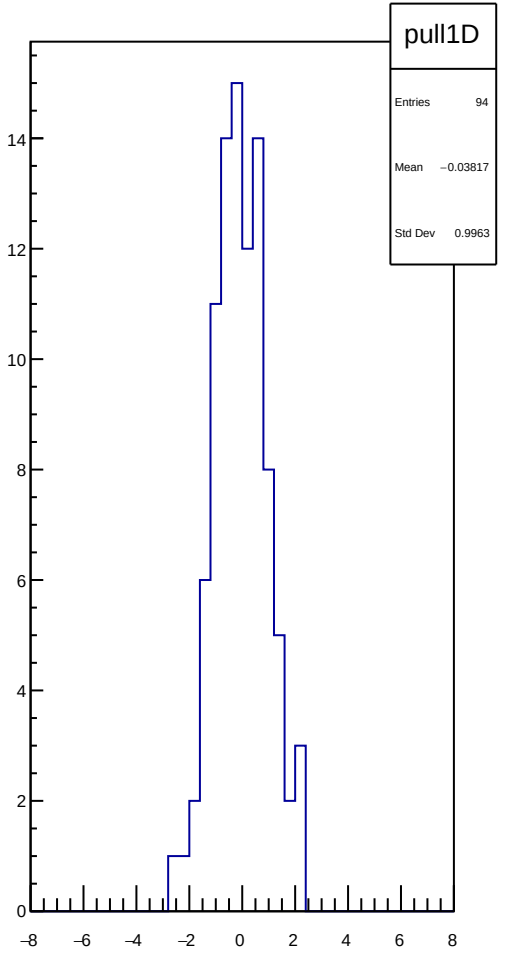

diff_bpm0l02Y_rms vs run
χ² / ndf 1.465e+04 / 93
p0 2042 ± 1.531
2800
2600
2400
2200
2000
1800

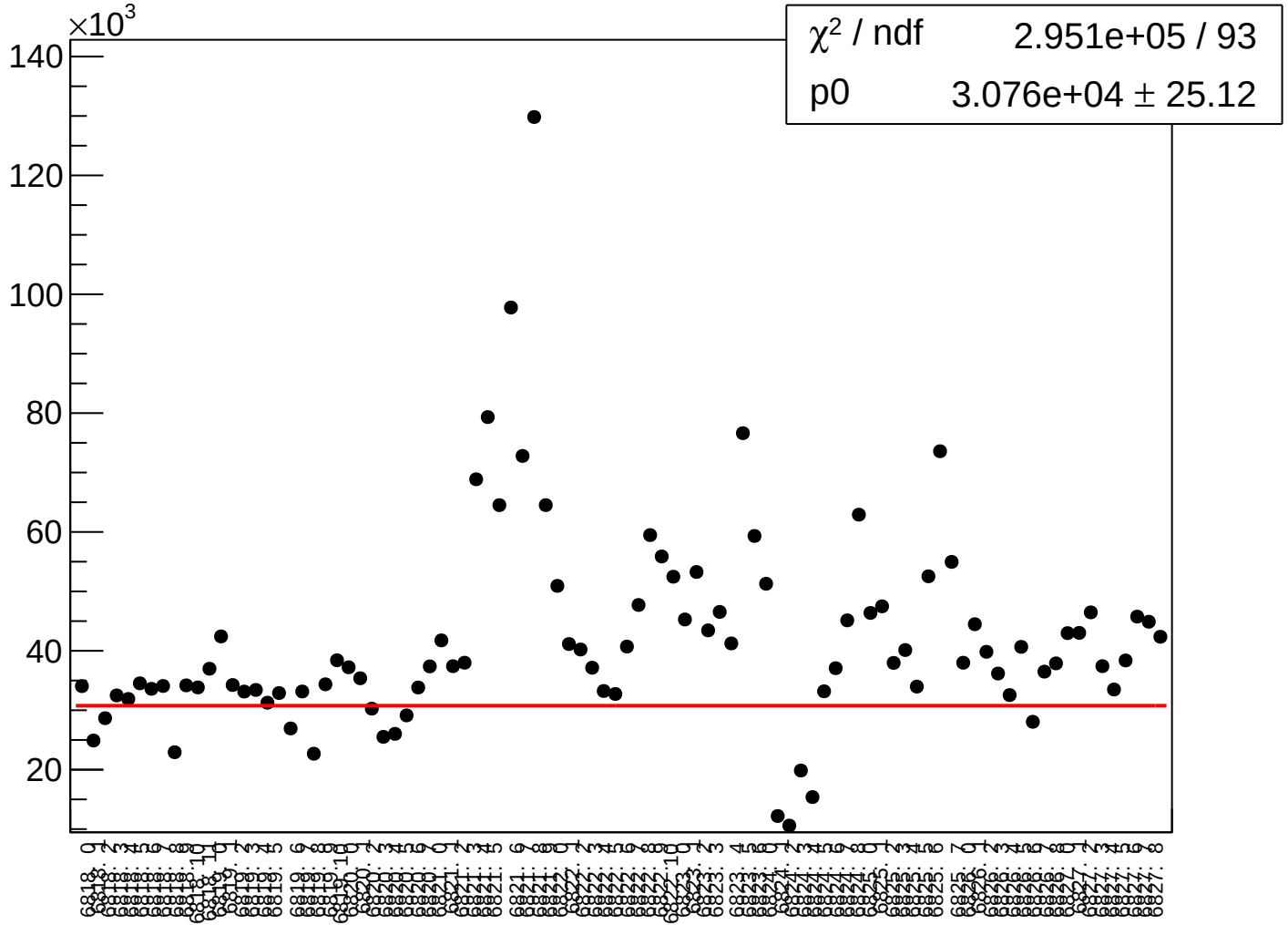

diff_bpm0l03X_mean vs run
χ² / ndf 93.52 / 93
p0 −81.52 ± 35.62
pull
Entries 94
Mean 47.98
Std Dev 26.54

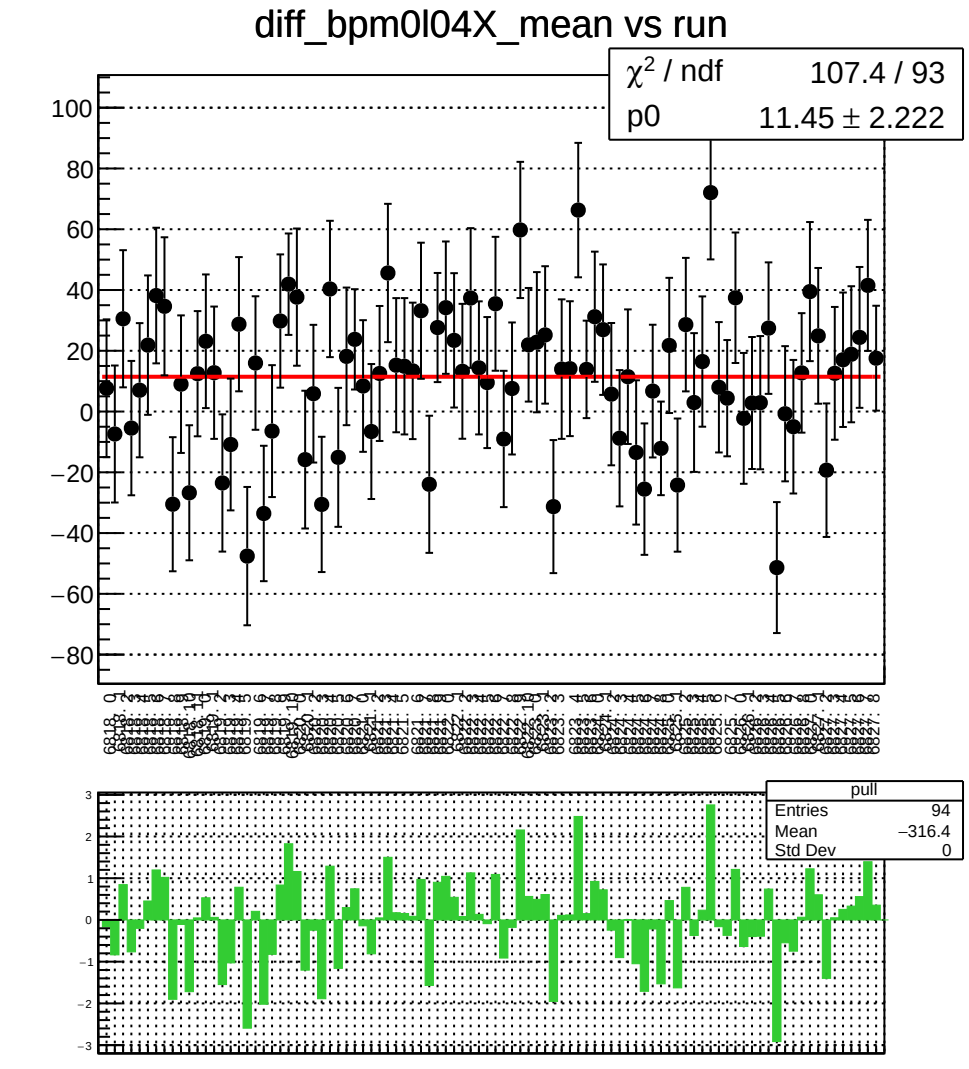

pull1D
Entries 94
Mean −0.04337
Std Dev 0.9965

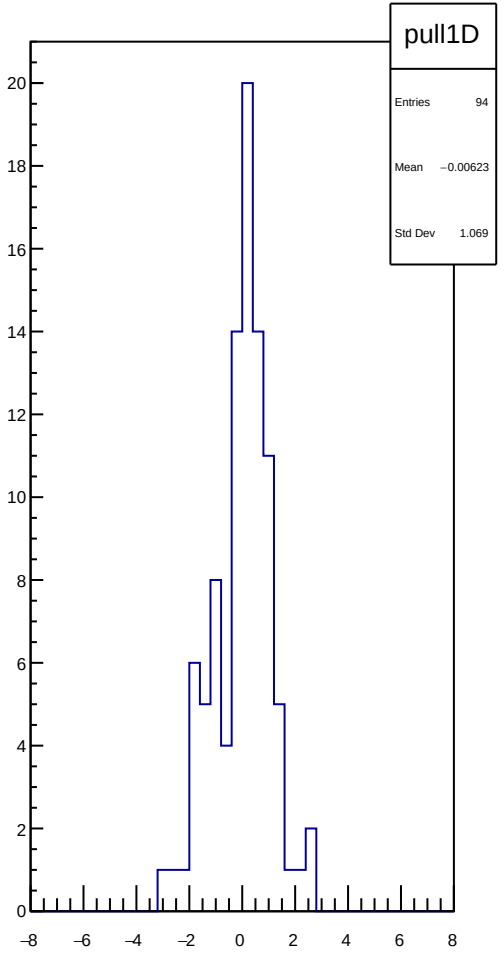

diff_bpm0l03X_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 2.91e+05 / 93
p0 3.089e+04 ± 25.19

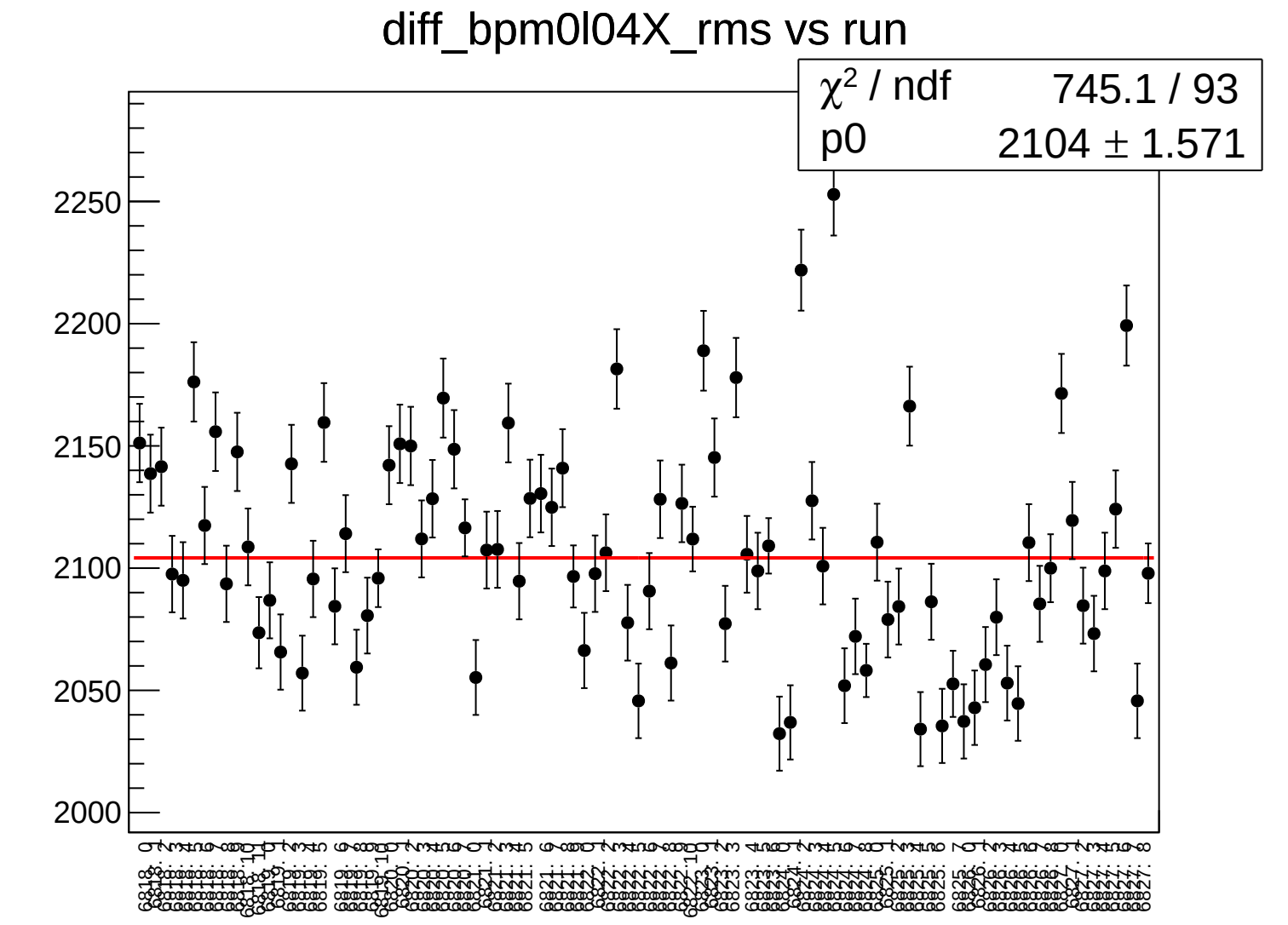

diff_bpm0l03Y_mean vs run
χ² / ndf 93.44 / 93
p0 −114.8 ± 35.52
pull
Entries 94
Mean 57.22
Std Dev 20.78

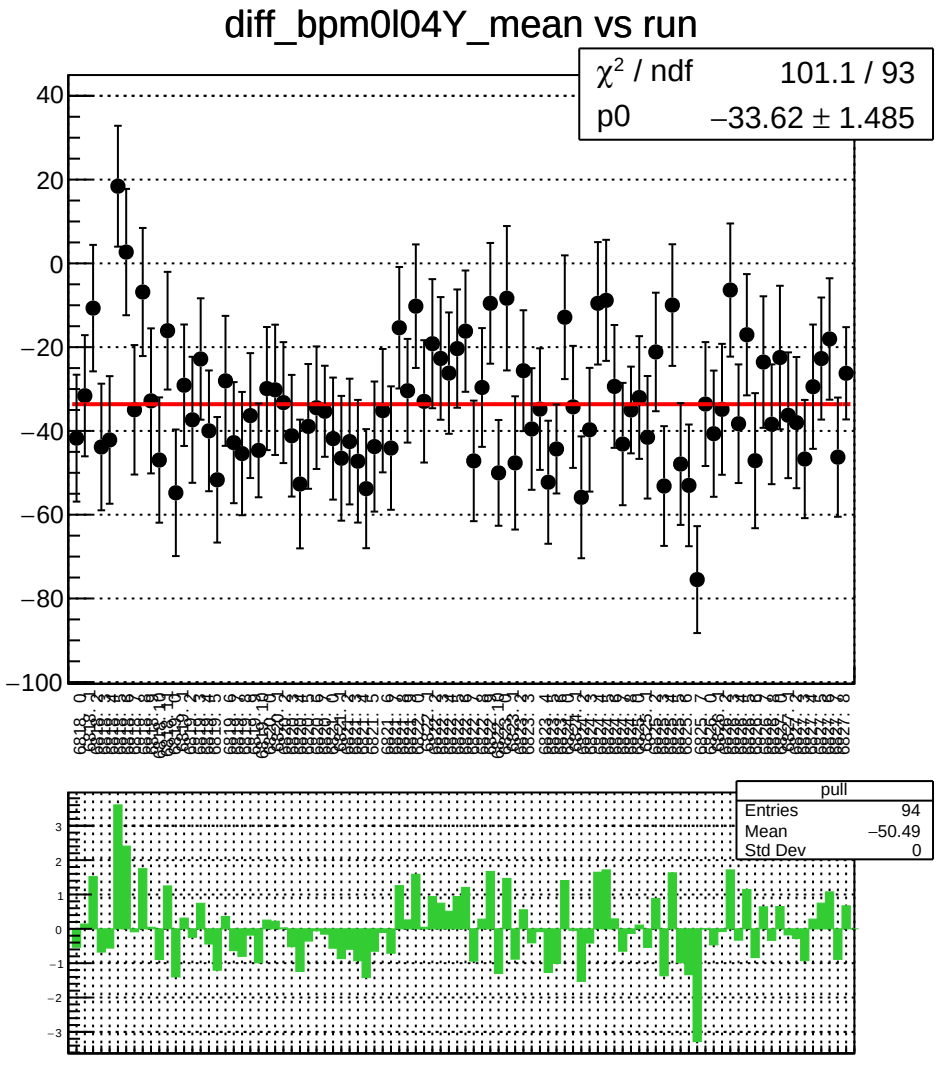

pull1D
Entries 94
Mean −0.03817
Std Dev 0.9963

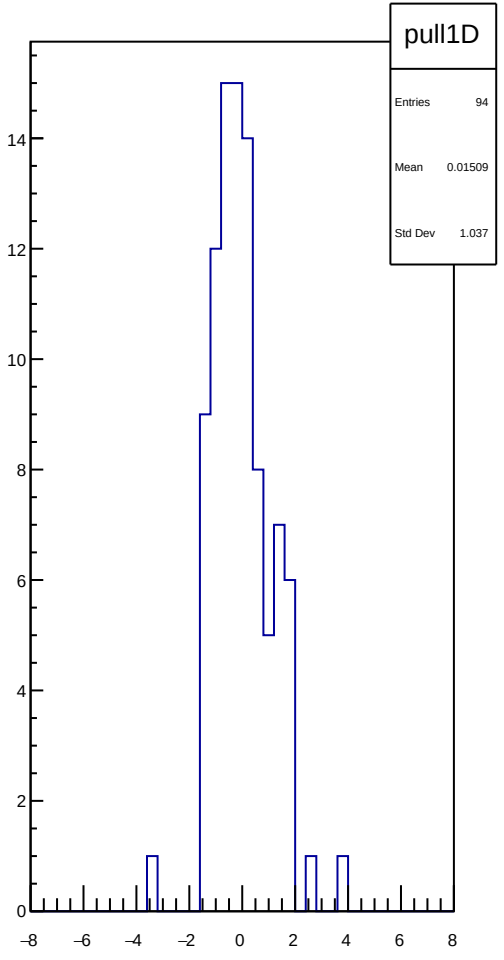

diff_bpm0l03Y_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 2.951e+05 / 93
p0 3.076e+04 ± 25.12

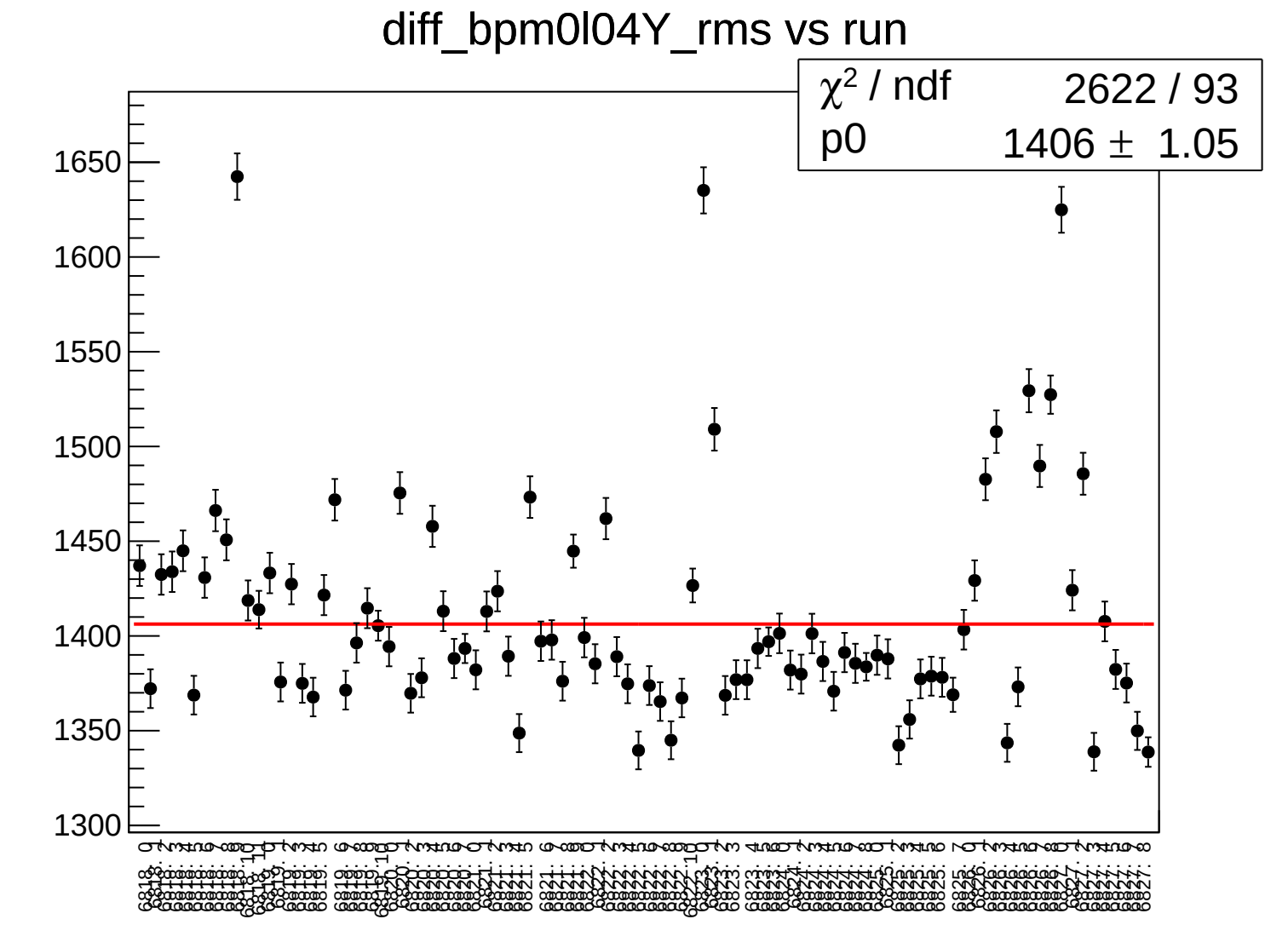

diff_bpm0l04X_mean vs run
χ² / ndf 107.4 / 93
p0 11.45 ± 2.222
pull
Entries 94
Mean −316.4
Std Dev 0

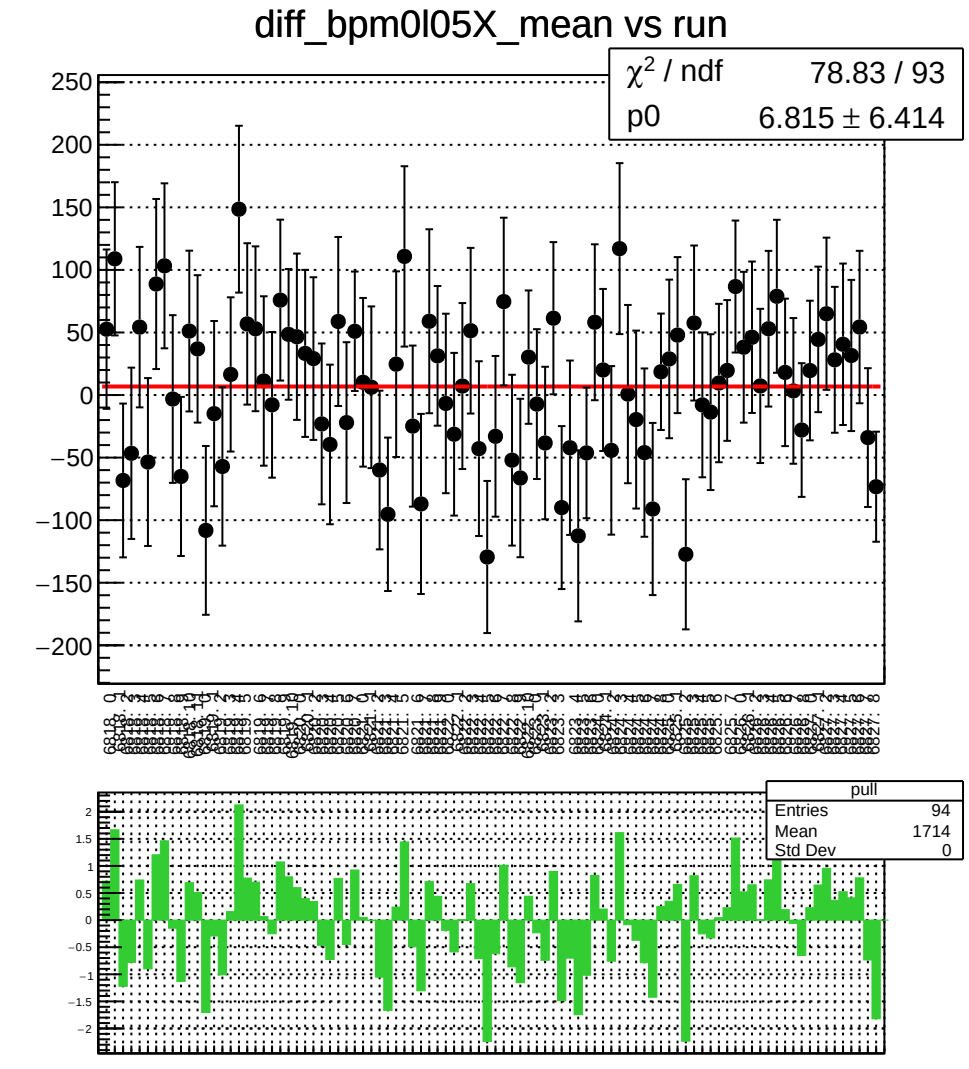

pull1D
Entries 94
Mean −0.00623
Std Dev 1.069

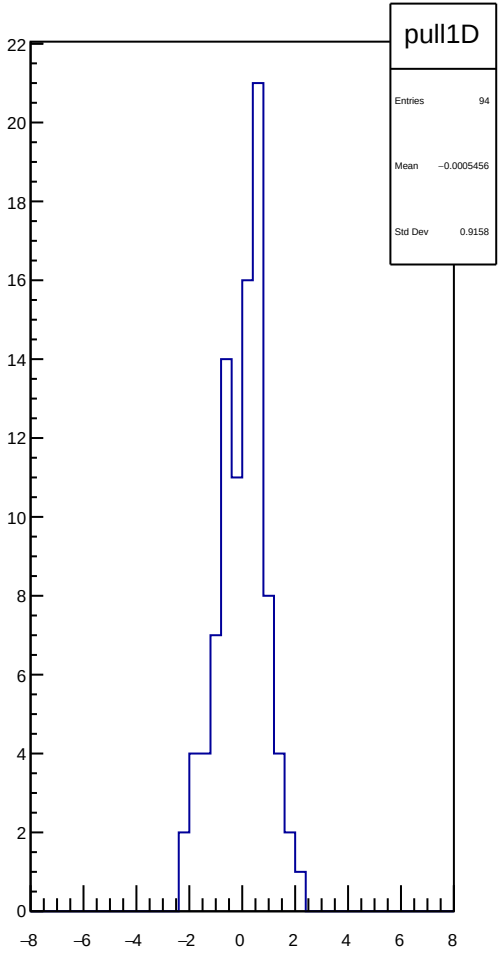

diff_bpm0l04X_rms vs run
χ² / ndf 745.1 / 93
p0 2104 ± 1.571
2250
2200
2150
2100
2050
2000

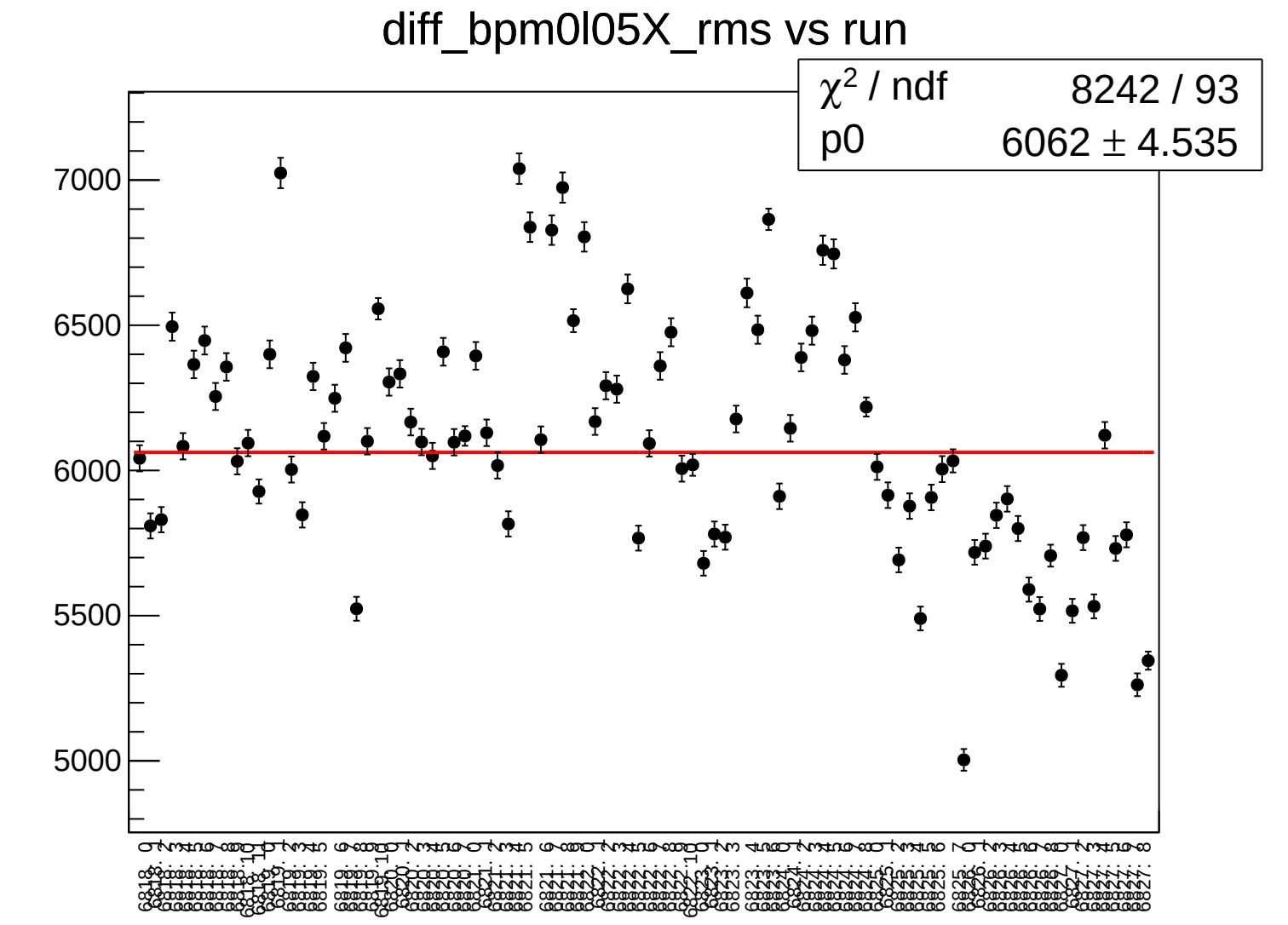

diff_bpm0l04Y_mean vs run
χ² / ndf 101.1 / 93
p0 −33.62 ± 1.485
pull
Entries 94
Mean −50.49
Std Dev 0

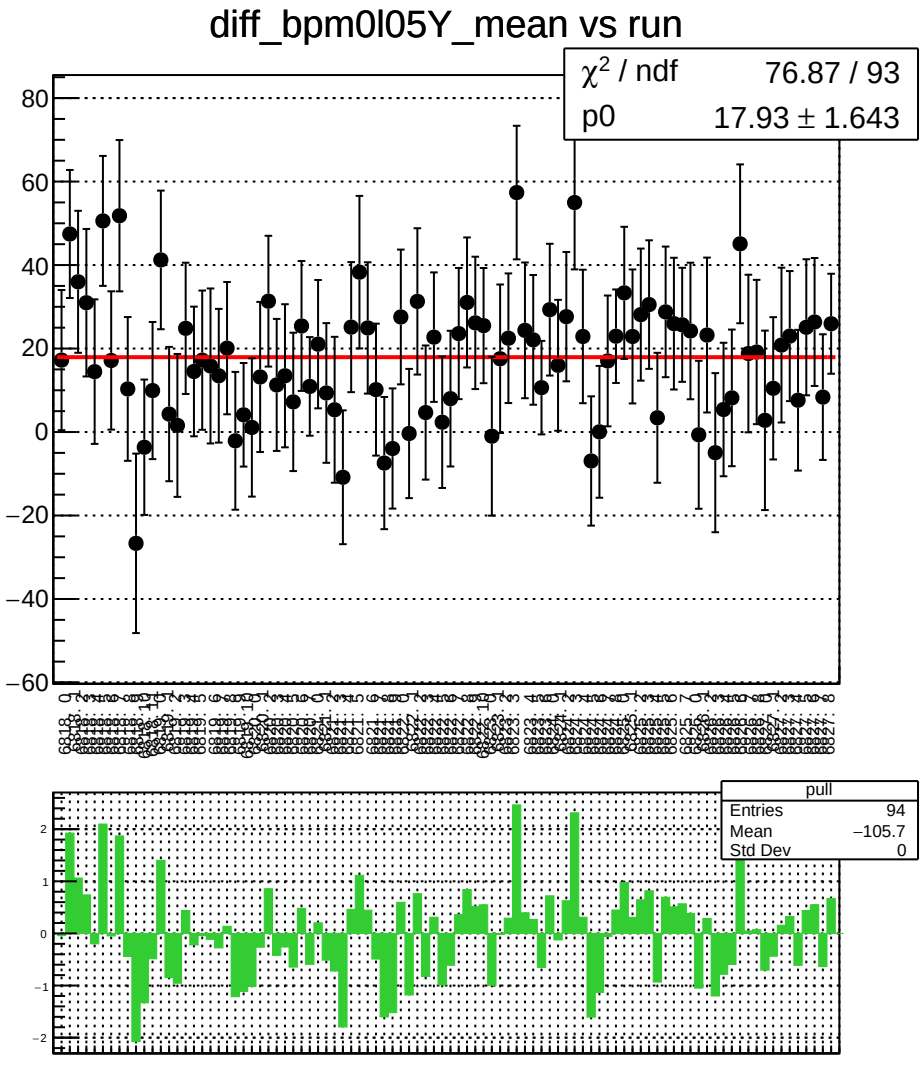

pull1D
Entries 94
Mean 0.01509
Std Dev 1.037

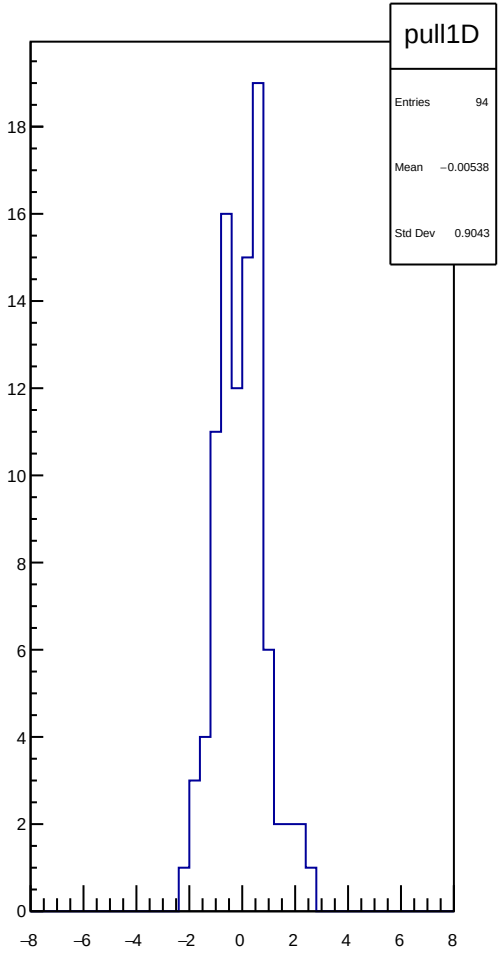

diff_bpm0l04Y_rms vs run
χ² / ndf 2622 / 93
p0 1406 ± 1.05
1650
1600
1550
1500
1450
1400
1350
1300

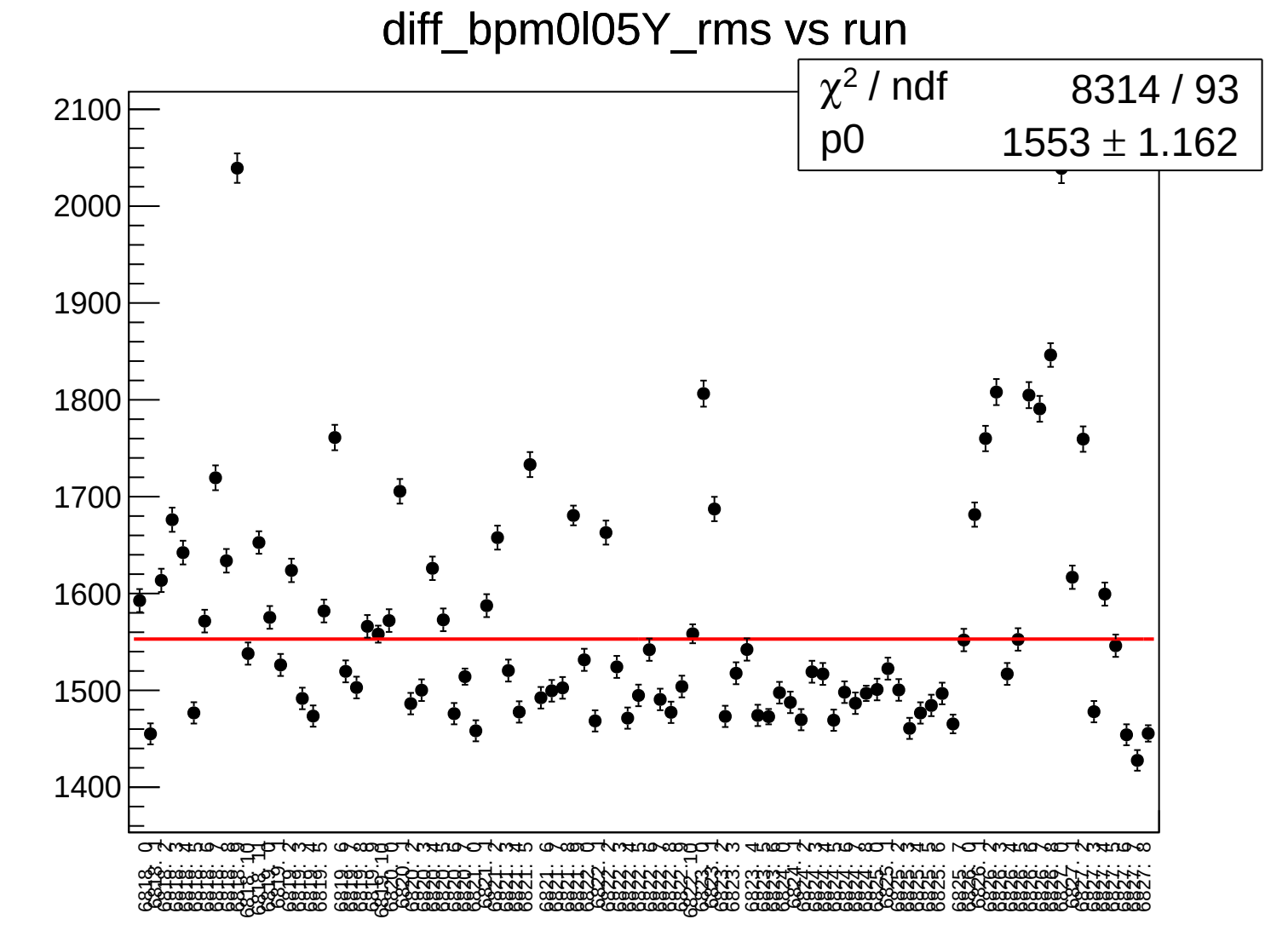

diff_bpm0l05X_mean vs run
χ^2 / ndf 78.83 / 93
p0 6.815 ± 6.414
pull
Entries 94
Mean 1714
Std Dev 0

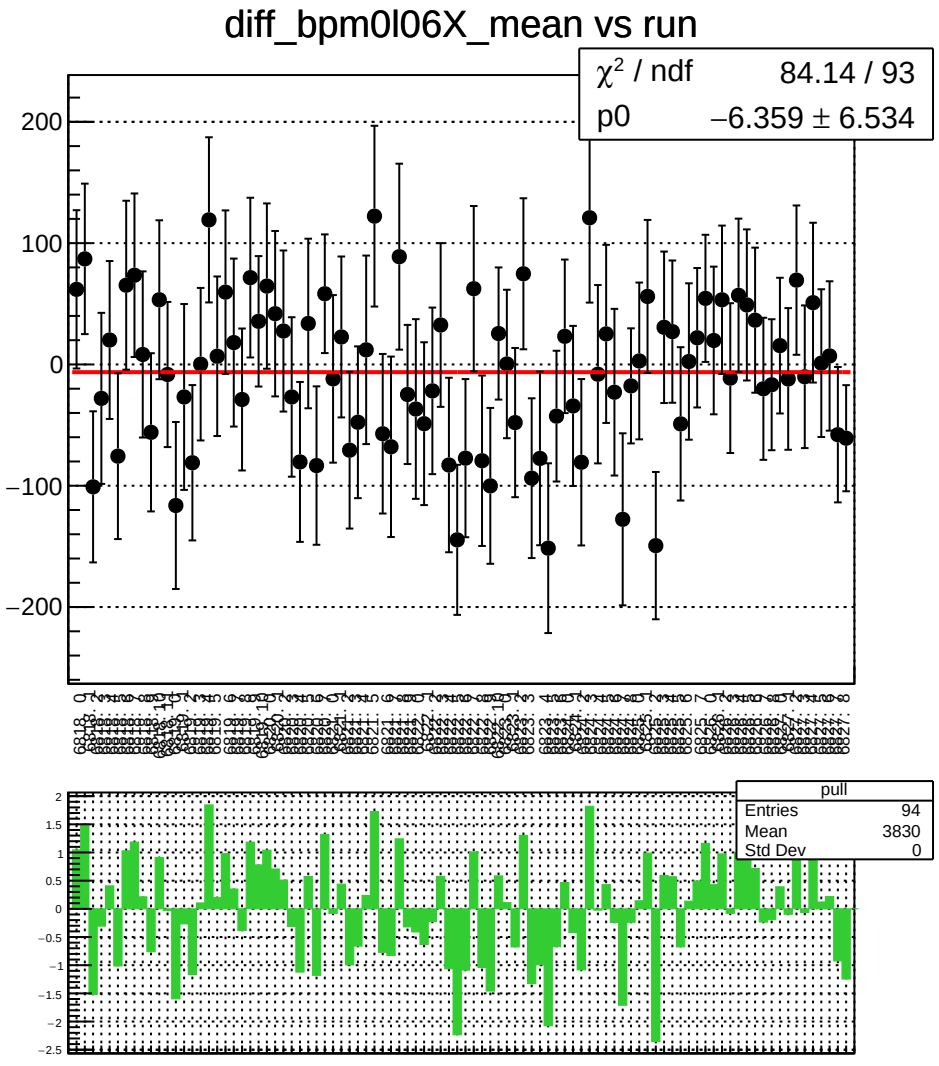

pull1D
Entries 94
Mean −0.0005456
Std Dev 0.9158

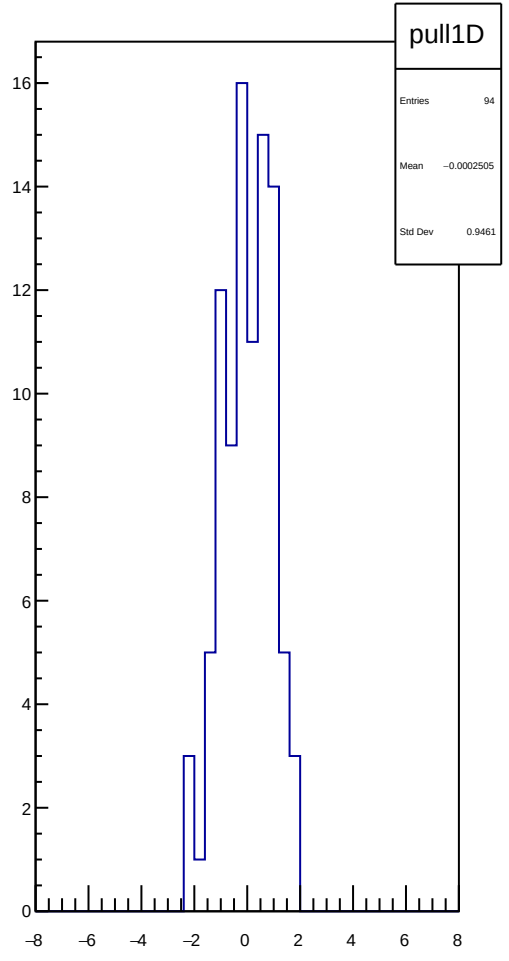

diff_bpm0l05X_rms vs run
χ^2 / ndf 8242 / 93
p0 6062 ± 4.535
7000
6500
6000
5500
5000

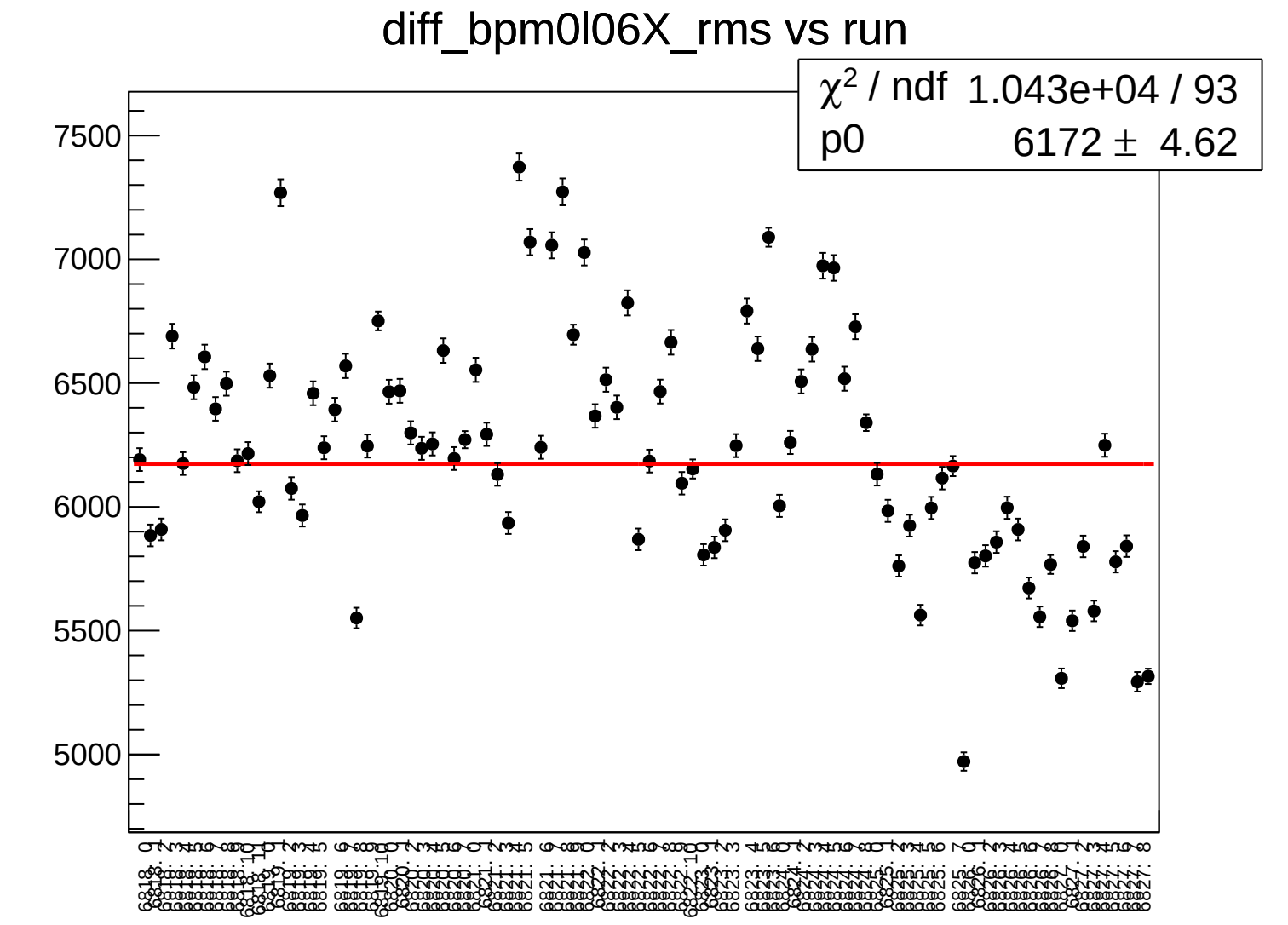

diff_bpm0l05Y_mean vs run
χ^2 / ndf 76.87 / 93
p0 17.93 ± 1.643
pull
Entries 94
Mean −105.7
Std Dev 0

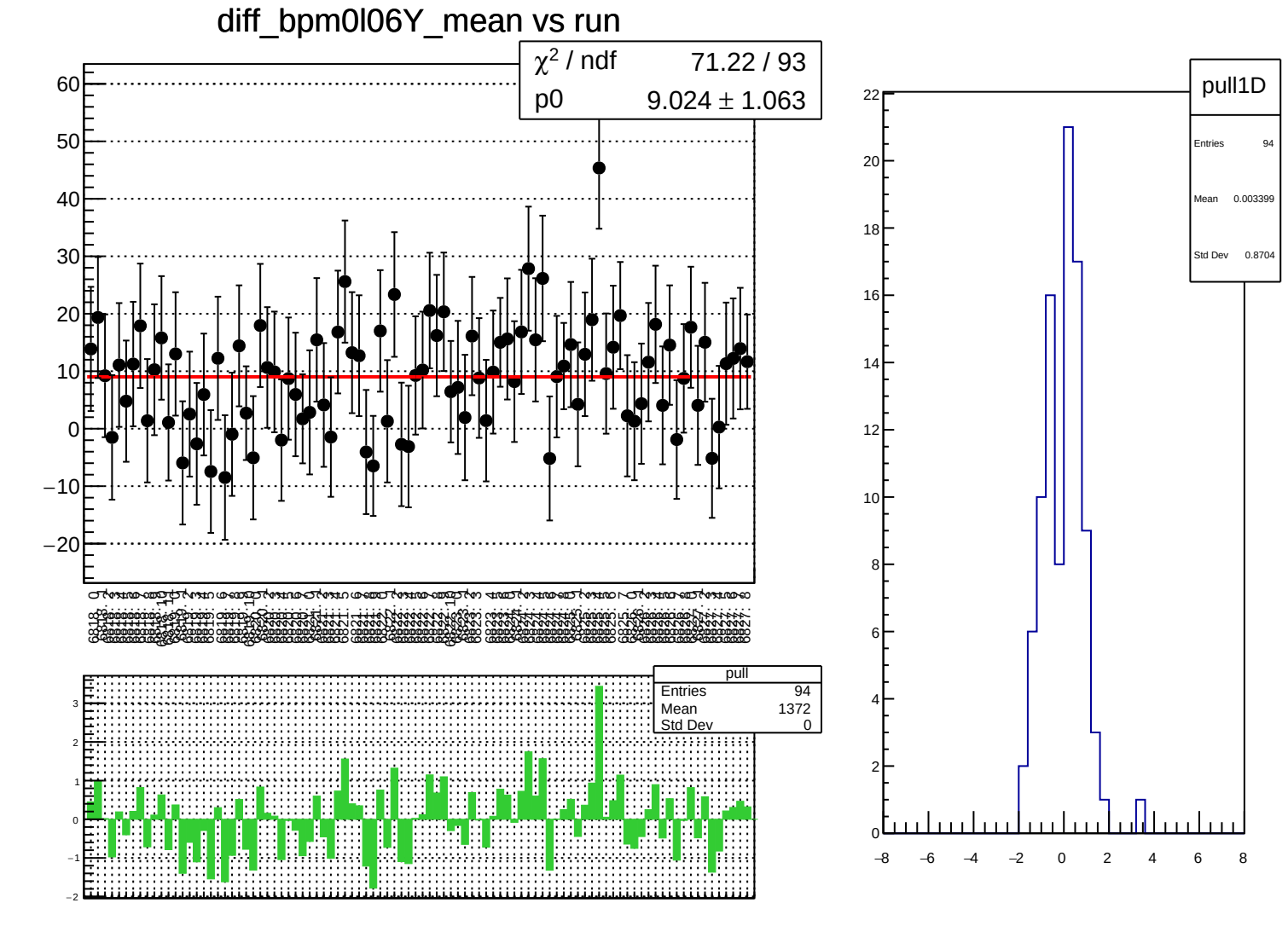

pull1D
Entries 94
Mean −0.00538
Std Dev 0.9043

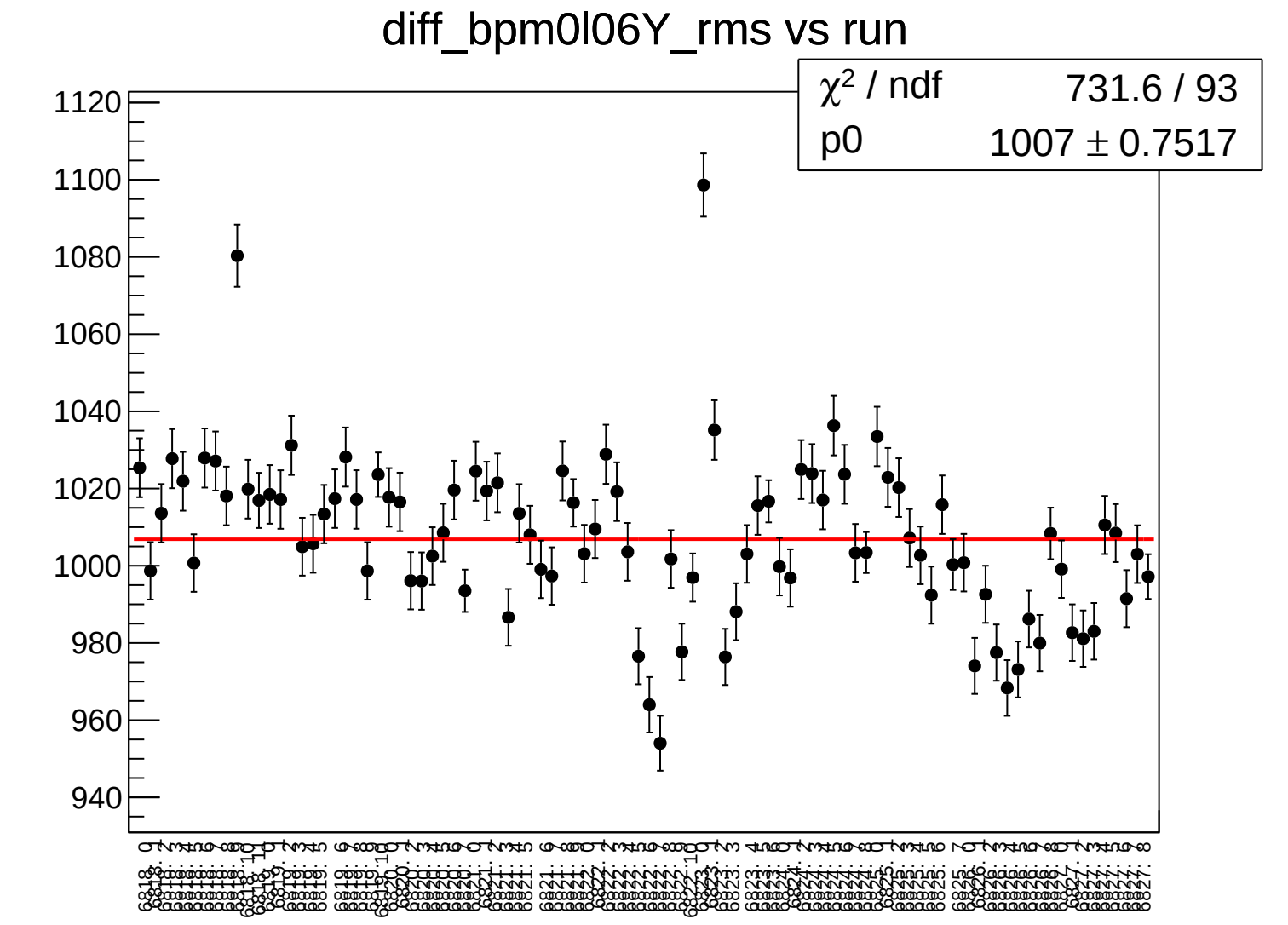

diff_bpm0l05Y_rms vs run
χ² / ndf 8314 / 93
p0 1553 ± 1.162
2100
2000
1900
1800
1700
1600
1500
1400

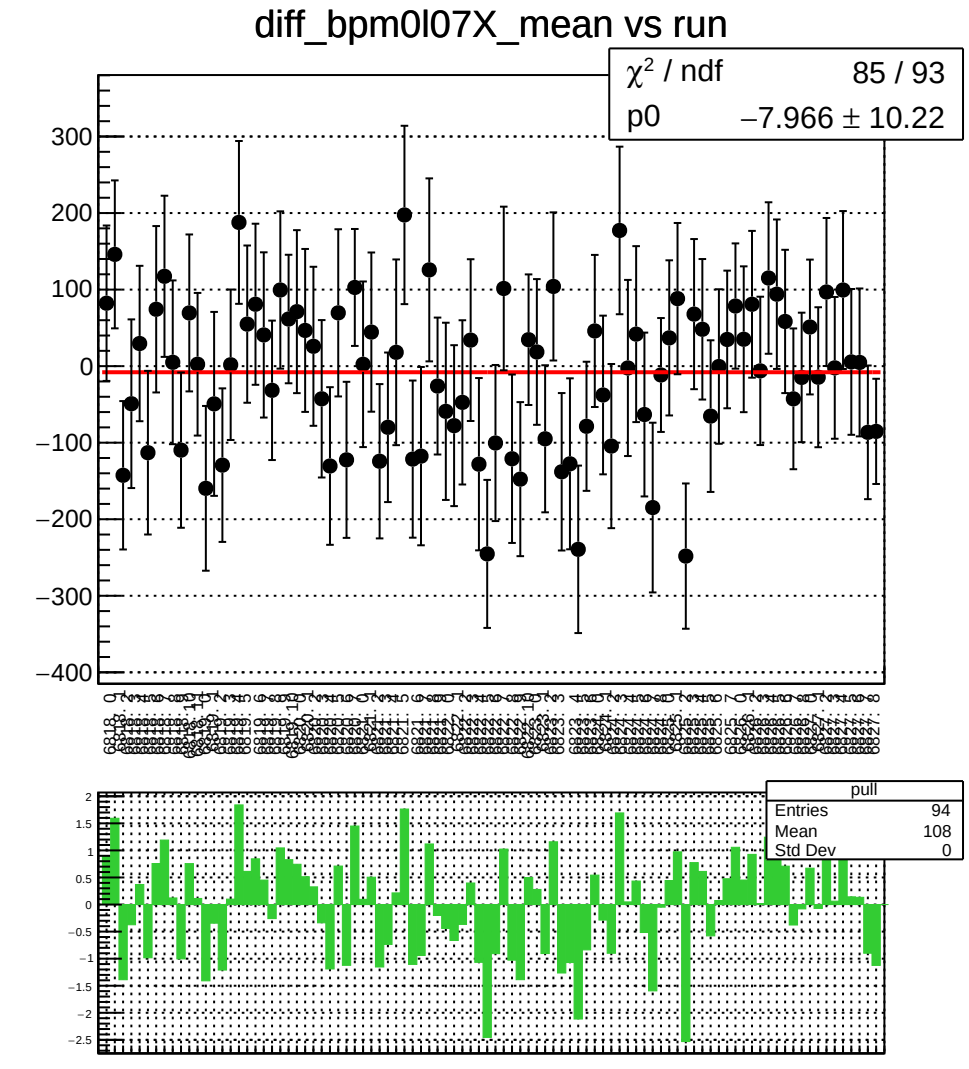

diff_bpm0l06X_mean vs run
χ^2 / ndf 84.14 / 93
p0 −6.359 ± 6.534
200
100
0
−100
−200
pull
Entries 94
Mean 3830
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

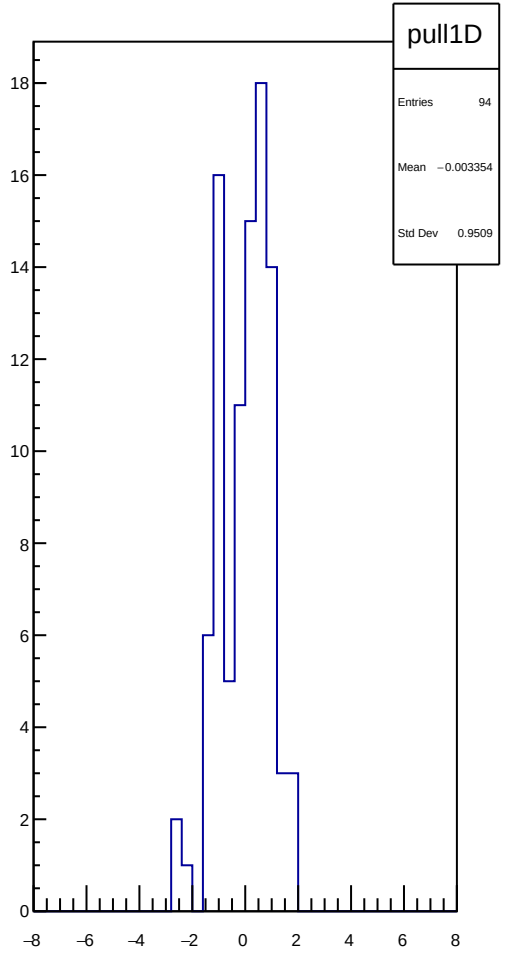

pull1D
Entries 94
Mean −0.0002505
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

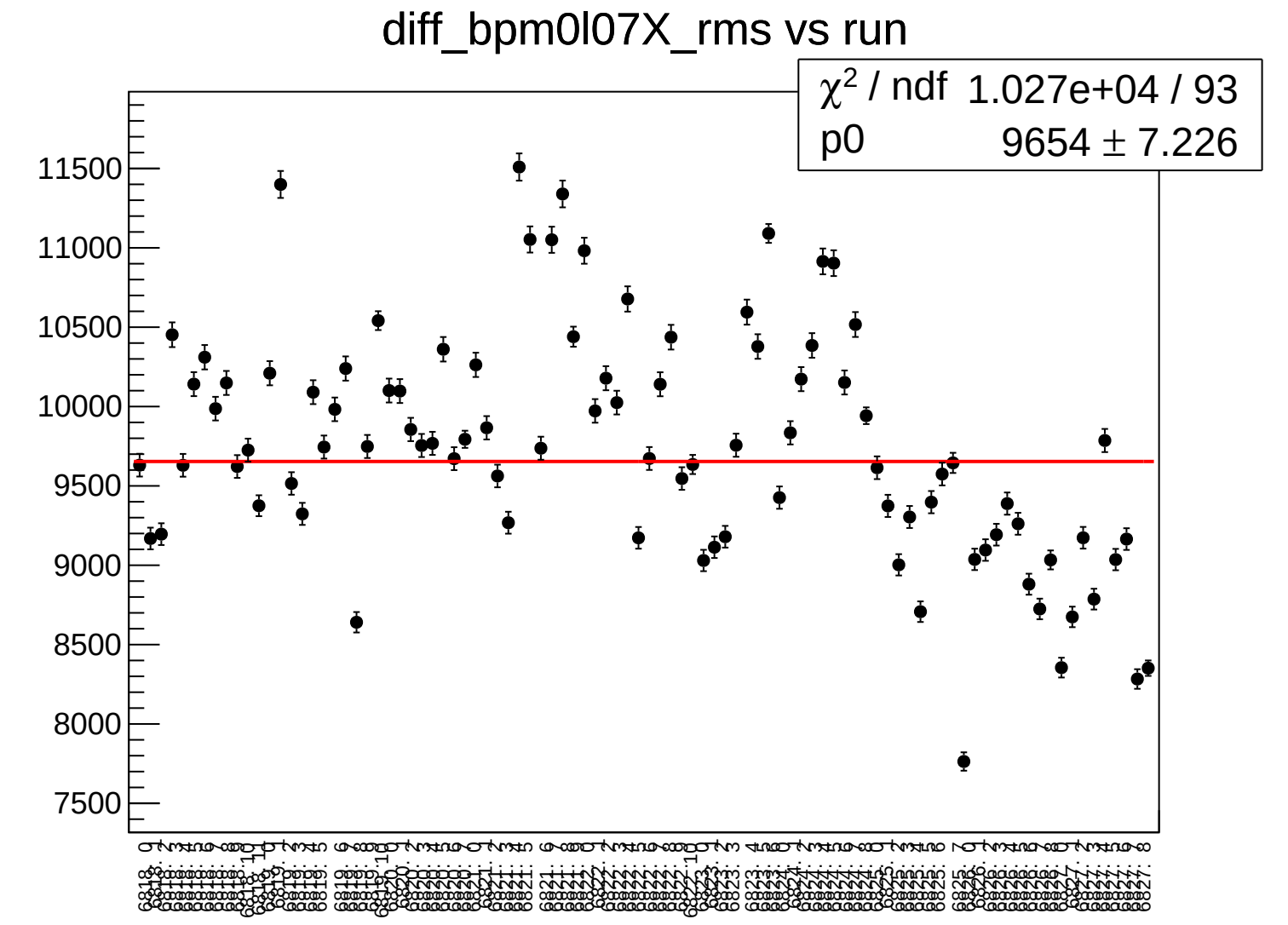

diff_bpm0l06X_rms vs run
χ² / ndf 1.043e+04 / 93
p0 6172 ± 4.62
7500
7000
6500
6000
5500
5000

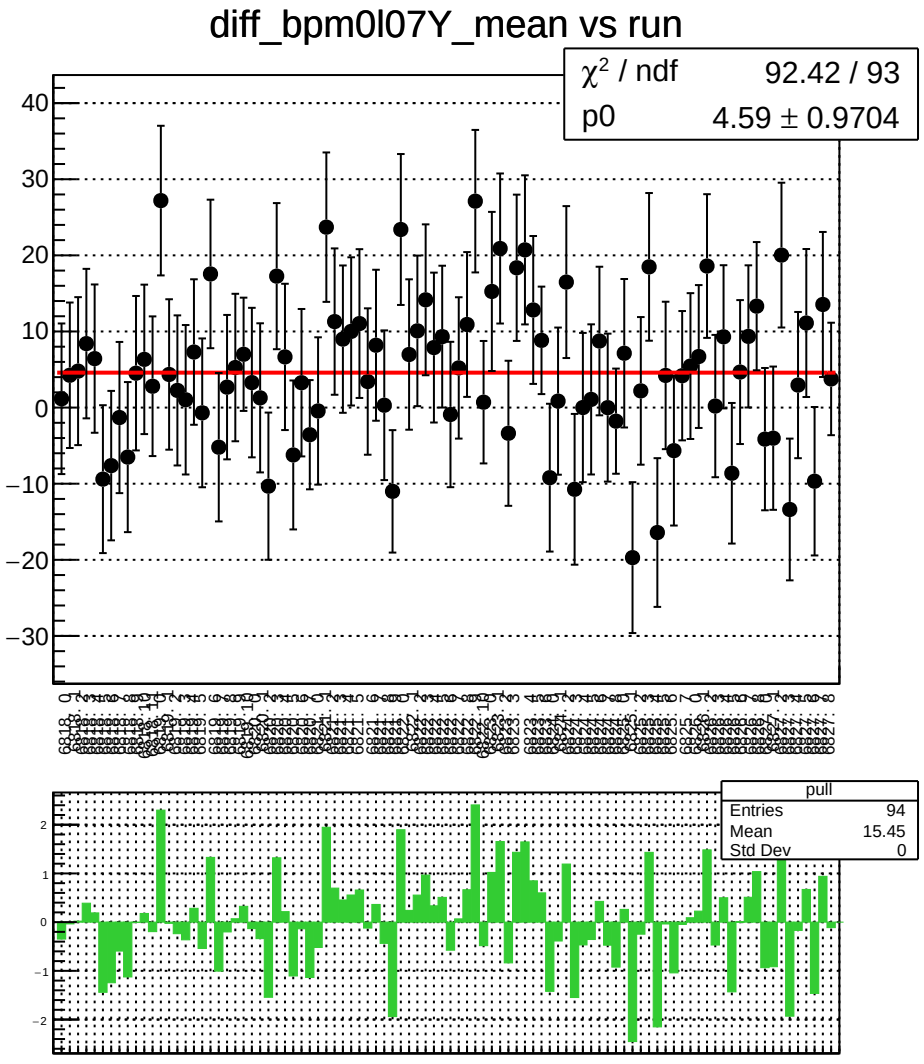

diff_bpm0l06Y_mean vs run
χ² / ndf 71.22 / 93
p0 9.024 ± 1.063
pull
Entries 94
Mean 1372
Std Dev 0
pull1D
Entries 94
Mean 0.003399
Std Dev 0.8704

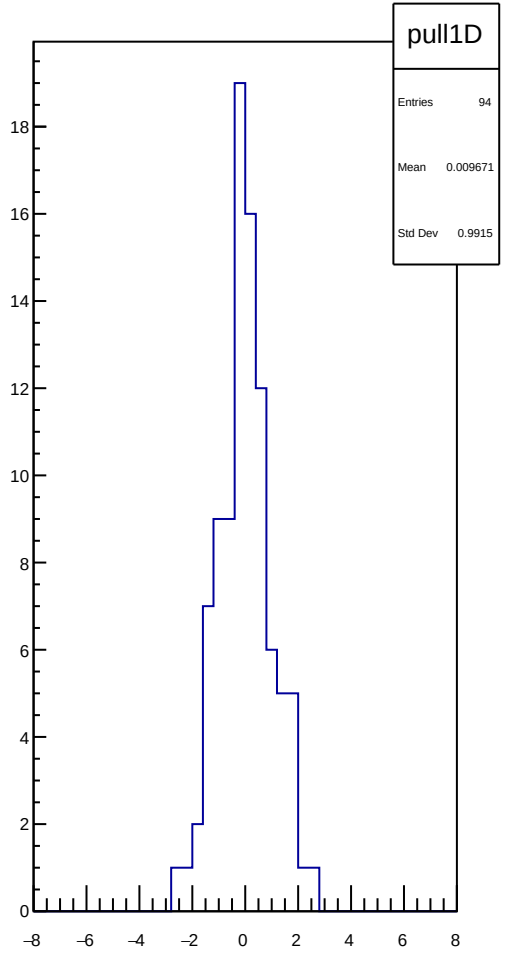

diff_bpm0l06Y_rms vs run
χ² / ndf 731.6 / 93
p0 1007 ± 0.7517
1120
1100
1080
1060
1040
1020
1000
980
960
940

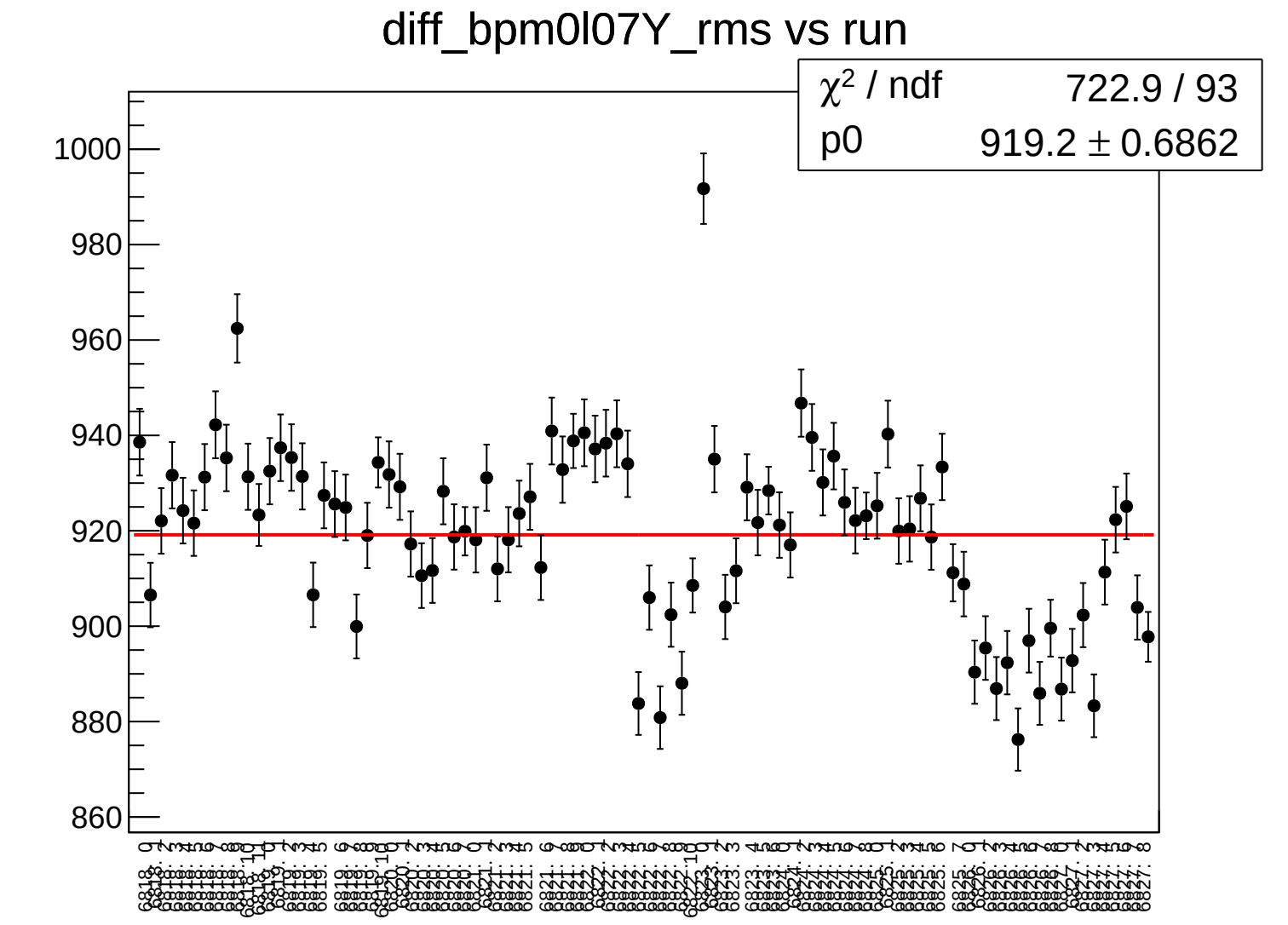

diff_bpm0l07X_mean vs run
χ² / ndf 85 / 93
p0 −7.966 ± 10.22
pull
Entries 94
Mean 108
Std Dev 0

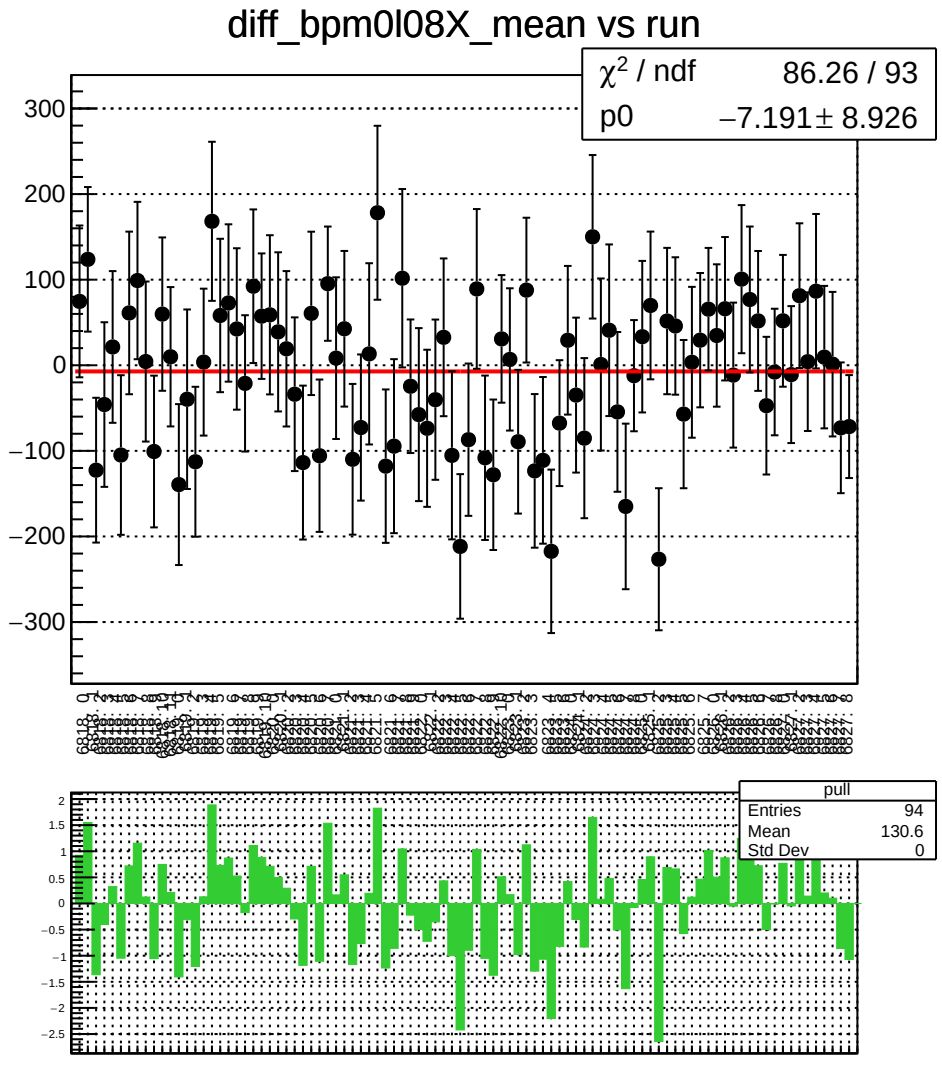

pull1D
Entries 94
Mean −0.003354
Std Dev 0.9509

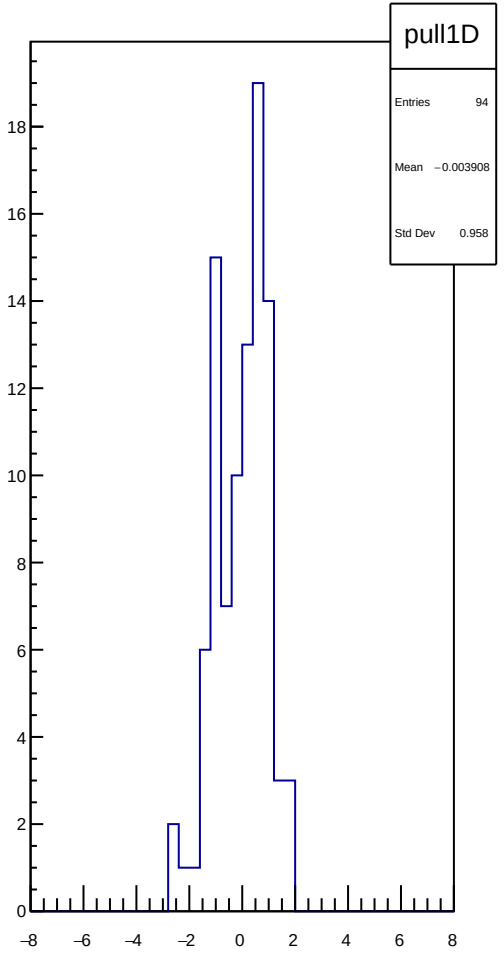

diff_bpm0l07X_rms vs run
χ² / ndf 1.027e+04 / 93
p0 9654 ± 7.226
11500
11000
10500
10000
9500
9000
8500
8000
7500

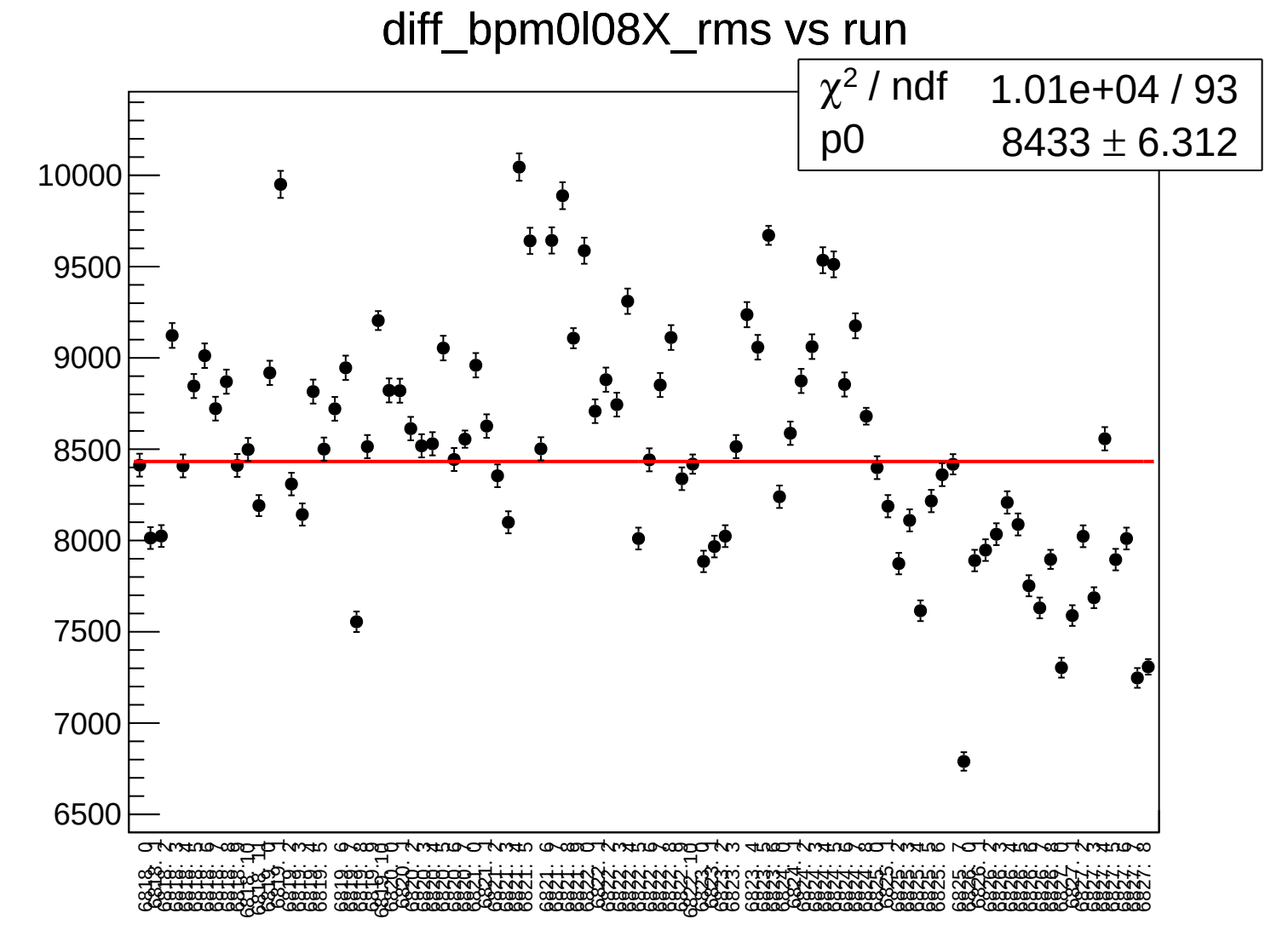

diff_bpm0l07Y_mean vs run
χ² / ndf 92.42 / 93
p0 4.59 ± 0.9704
pull
Entries 94
Mean 15.45
Std Dev 0

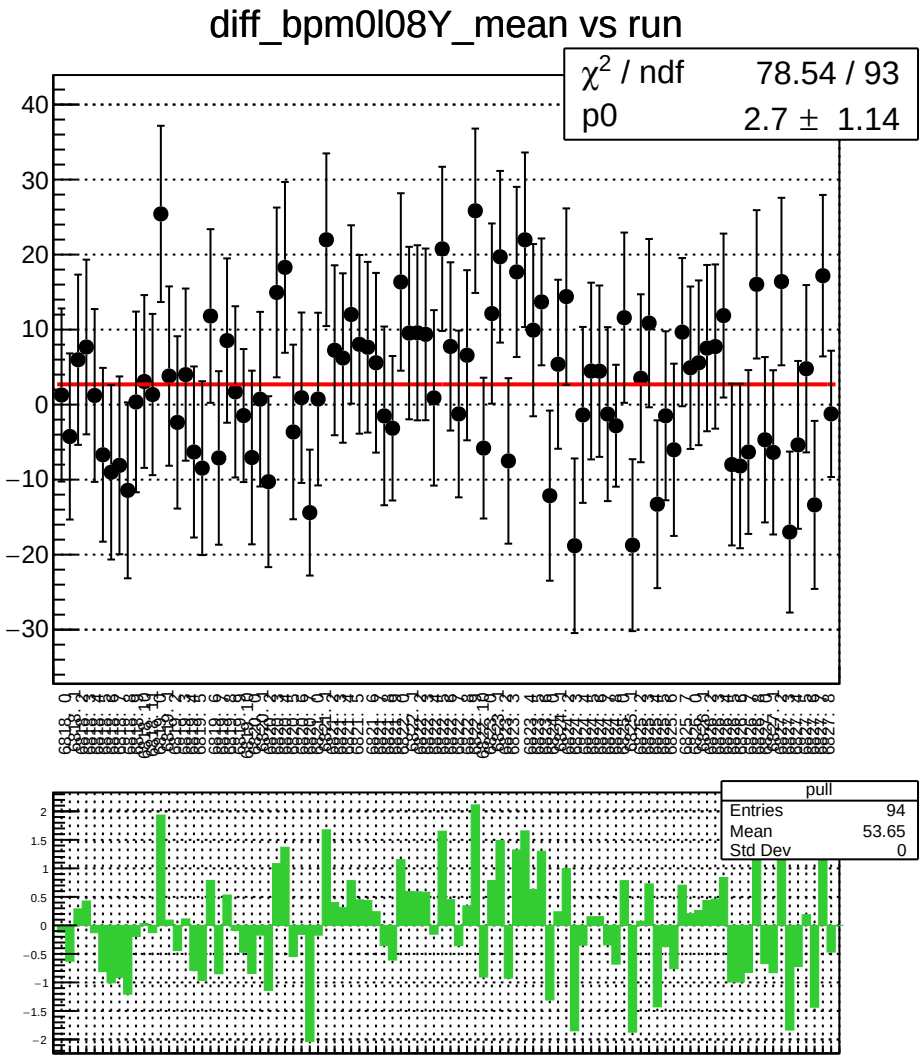

pull1D
Entries 94
Mean 0.009671
Std Dev 0.9915

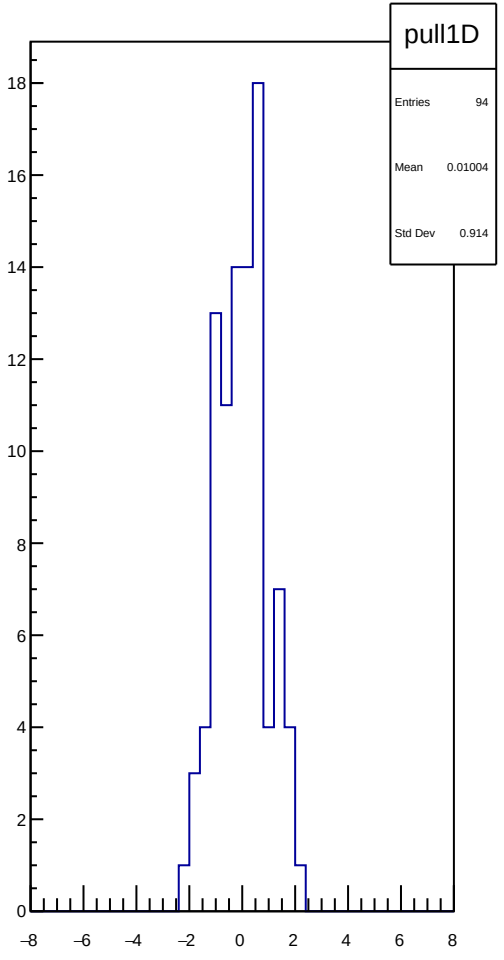

diff_bpm0l07Y_rms vs run
χ² / ndf 722.9 / 93
p0 919.2 ± 0.6862
1000
980
960
940
920
900
880
860

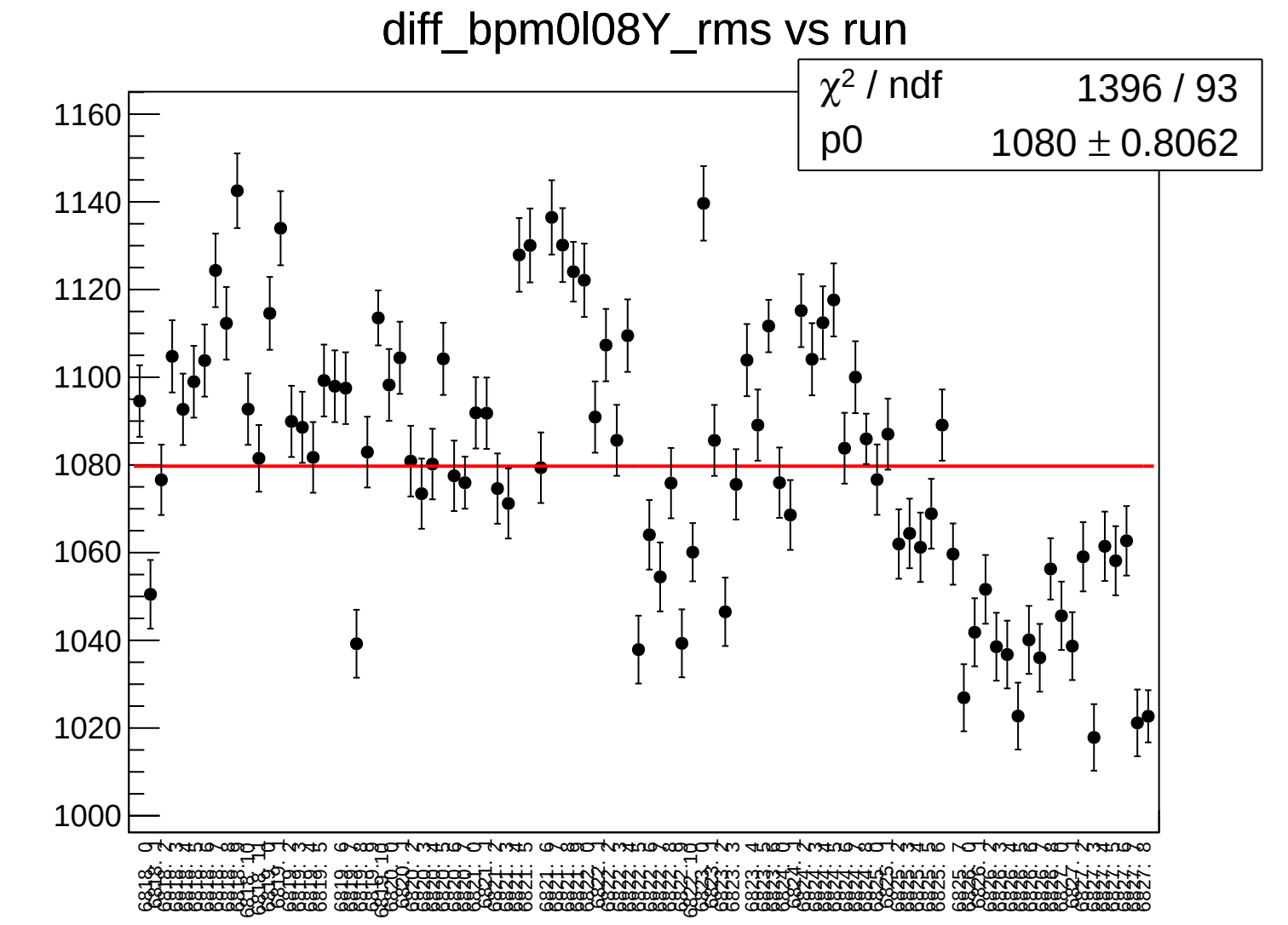

diff_bpm0l08X_mean vs run
χ² / ndf 86.26 / 93
p0 −7.191 ± 8.926
pull
Entries 94
Mean 130.6
Std Dev 0

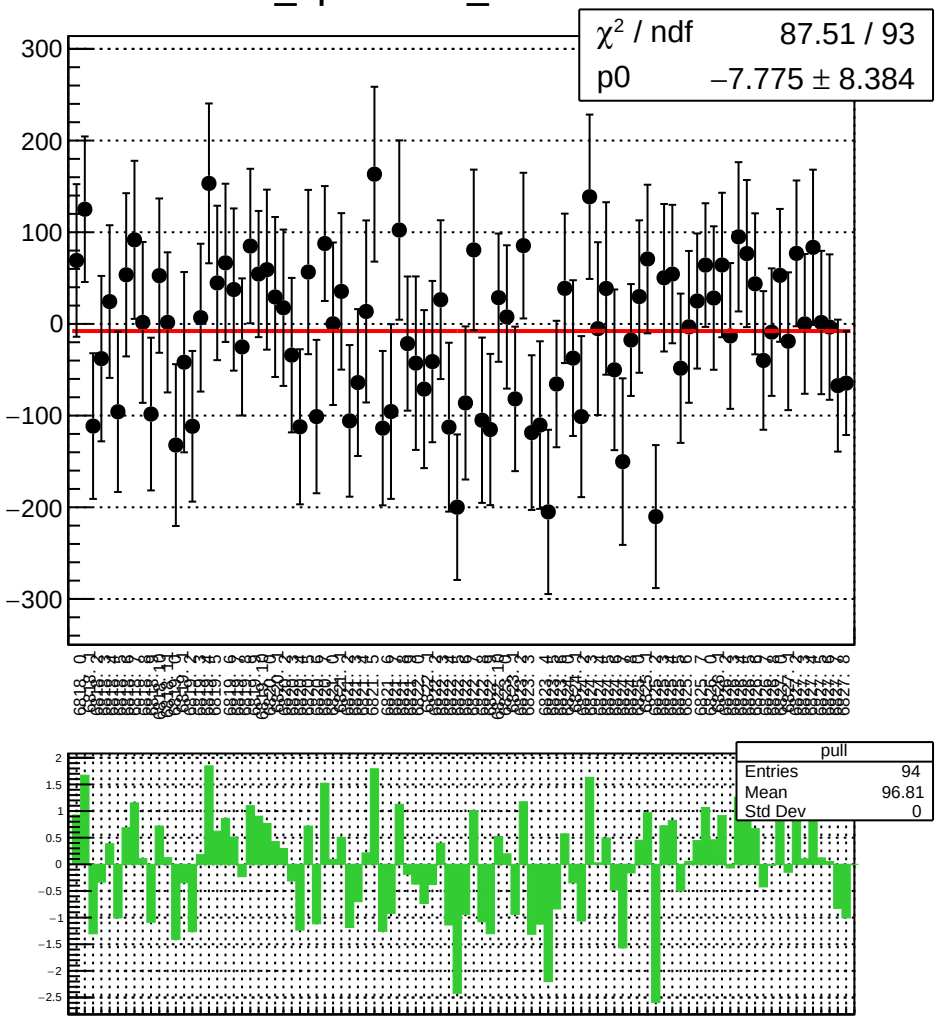

pull1D
Entries 94
Mean −0.003908
Std Dev 0.958

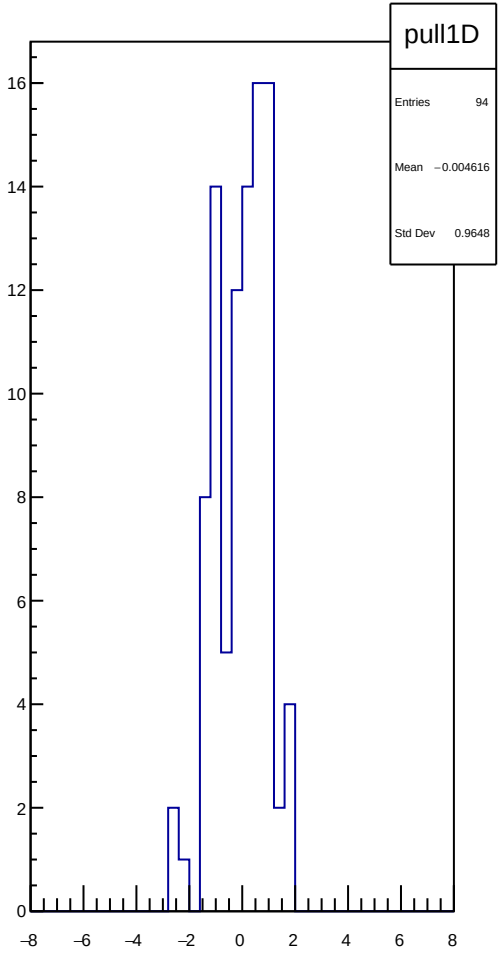

diff_bpm0l08X_rms vs run
χ² / ndf 1.01e+04 / 93
p0 8433 ± 6.312
10000
9500
9000
8500
8000
7500
7000
6500

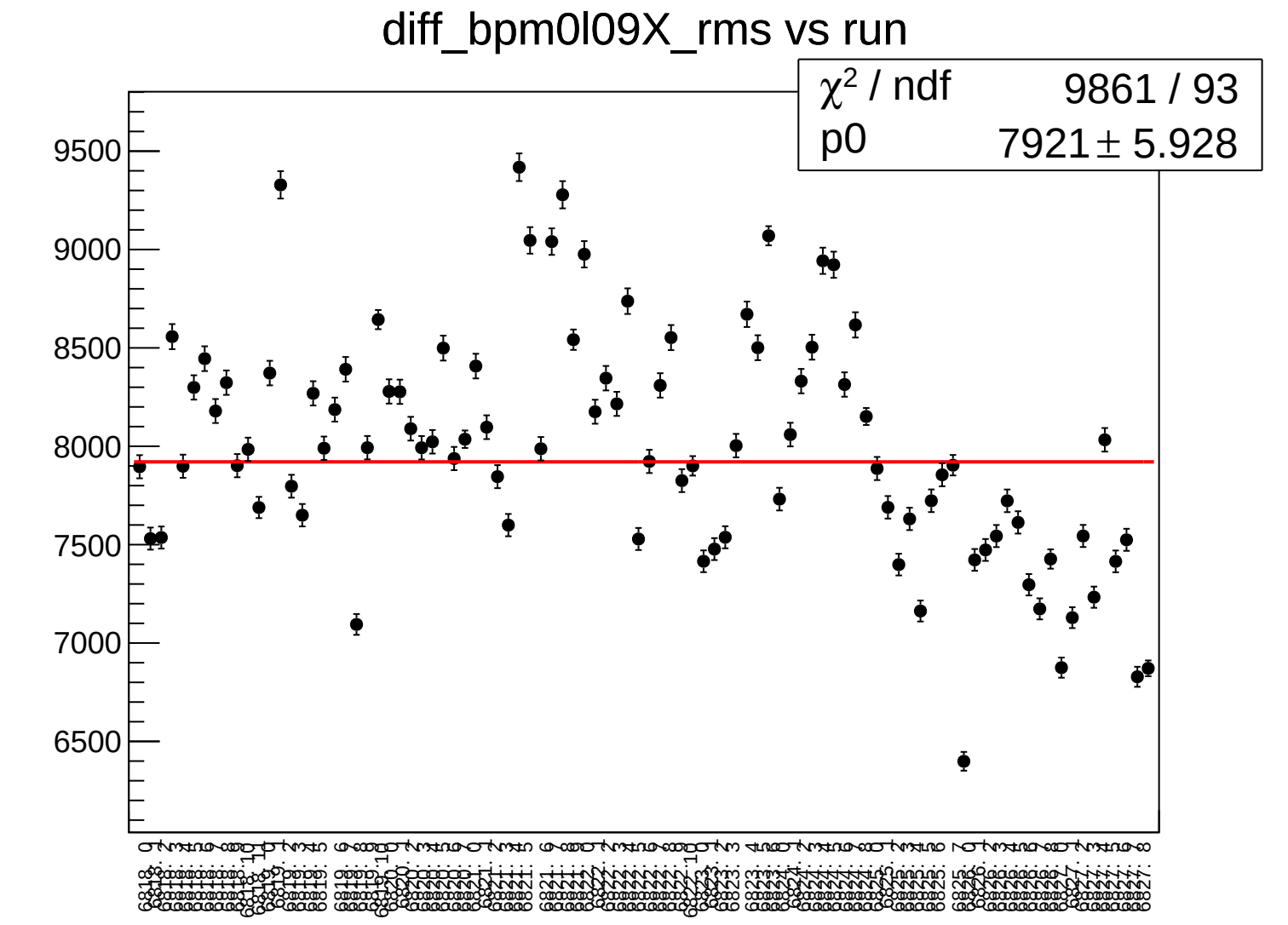

diff_bpm0l08Y_mean vs run
χ² / ndf 78.54 / 93
p0 2.7 ± 1.14
pull
Entries 94
Mean 53.65
Std Dev 0

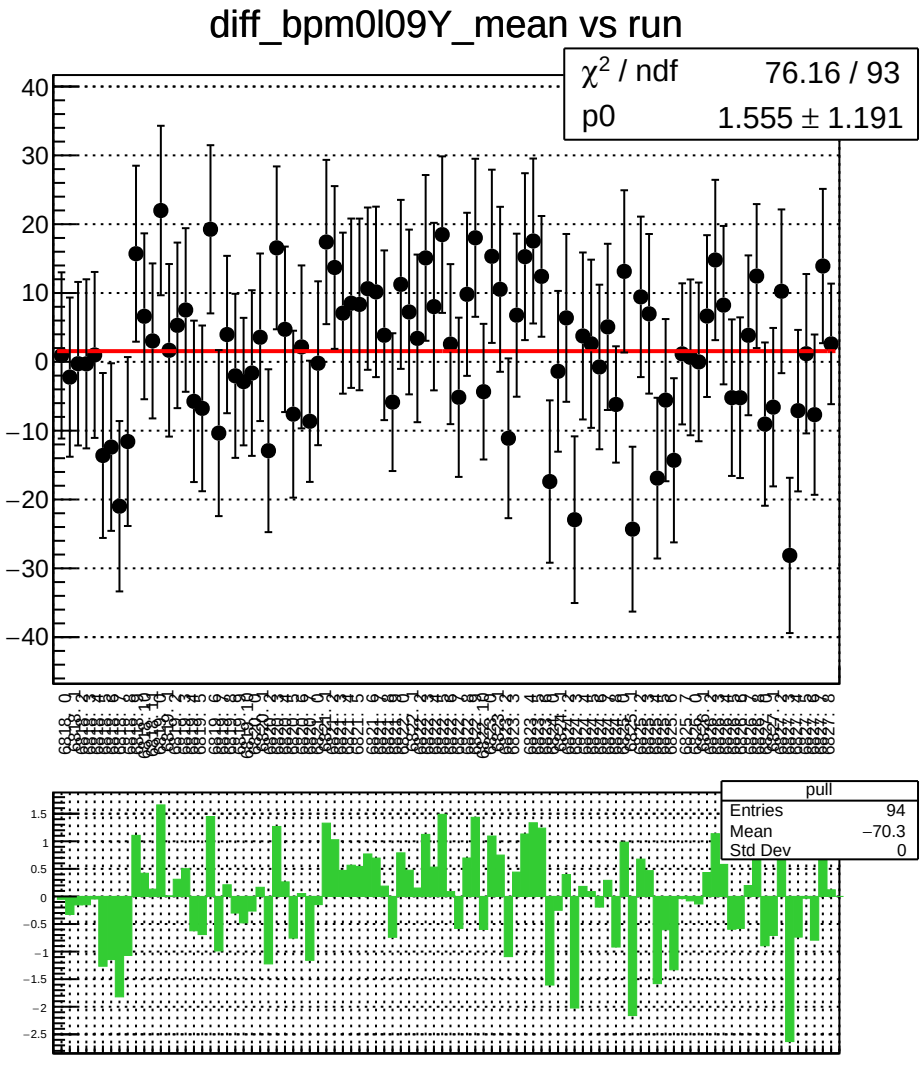

pull1D
Entries 94
Mean 0.01004
Std Dev 0.914

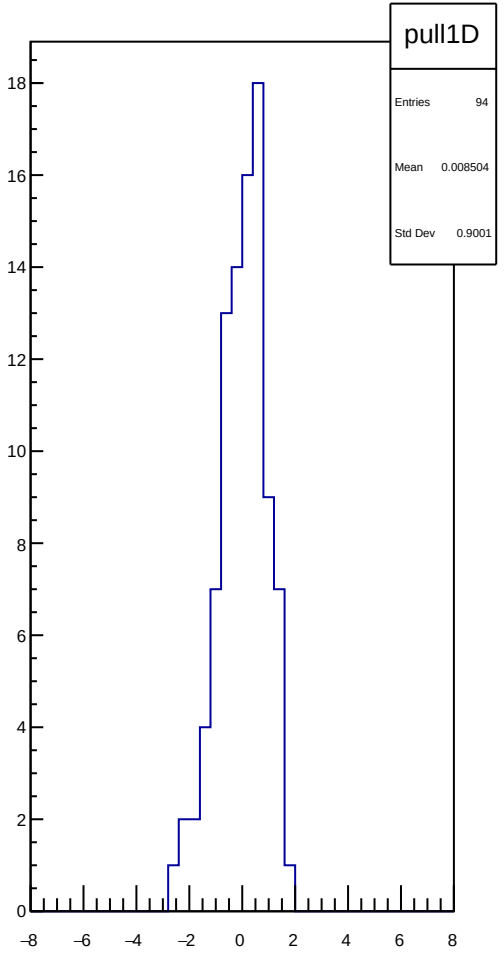

diff_bpm0l08Y_rms vs run
χ² / ndf 1396 / 93
p0 1080 ± 0.8062
1160
1140
1120
1100
1080
1060
1040
1020
1000

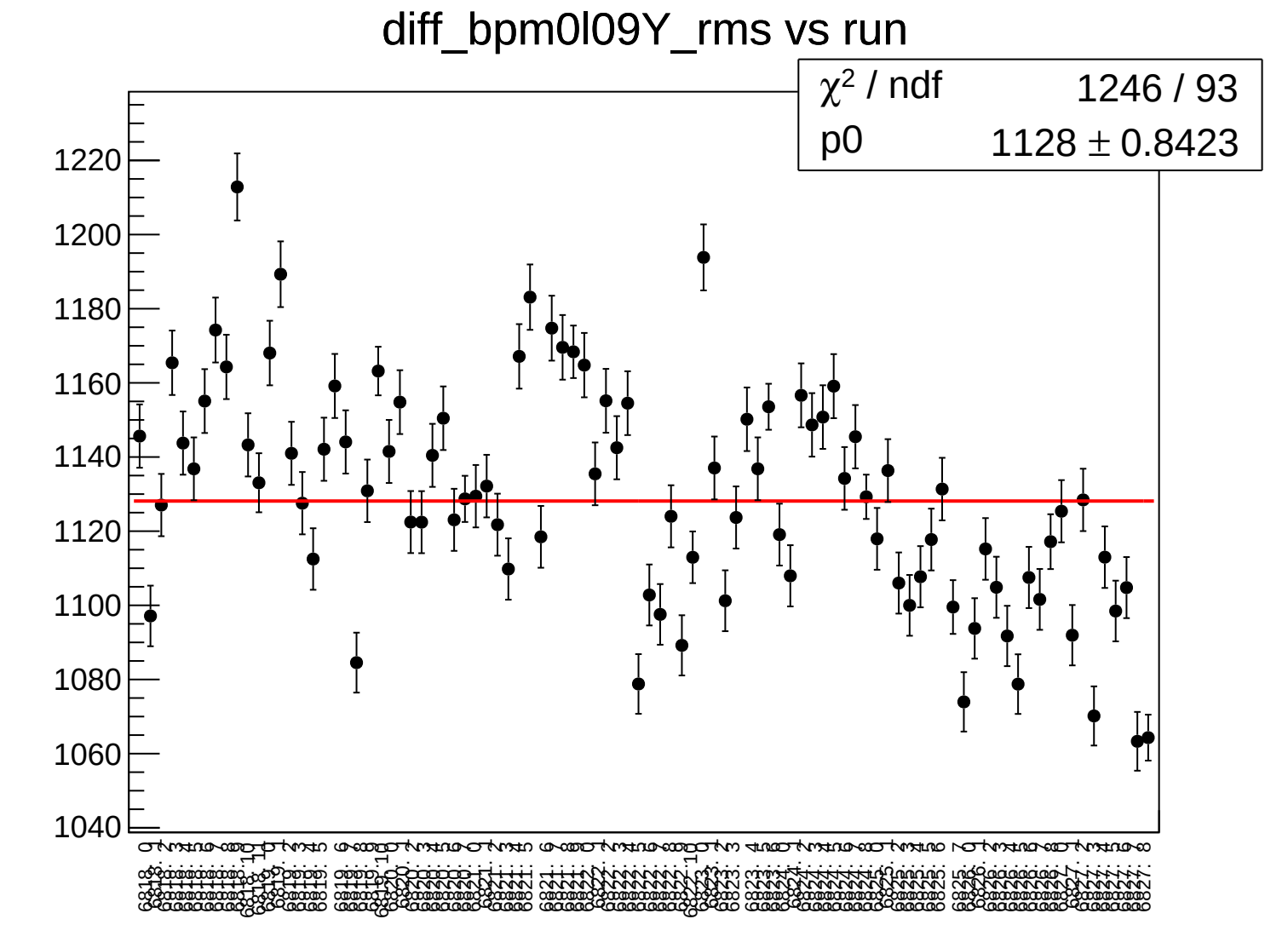

diff_bpm0l09X_mean vs run
χ² / ndf 87.51 / 93
p0 −7.775 ± 8.384
pull
Entries 94
Mean 96.81
Std Dev 0

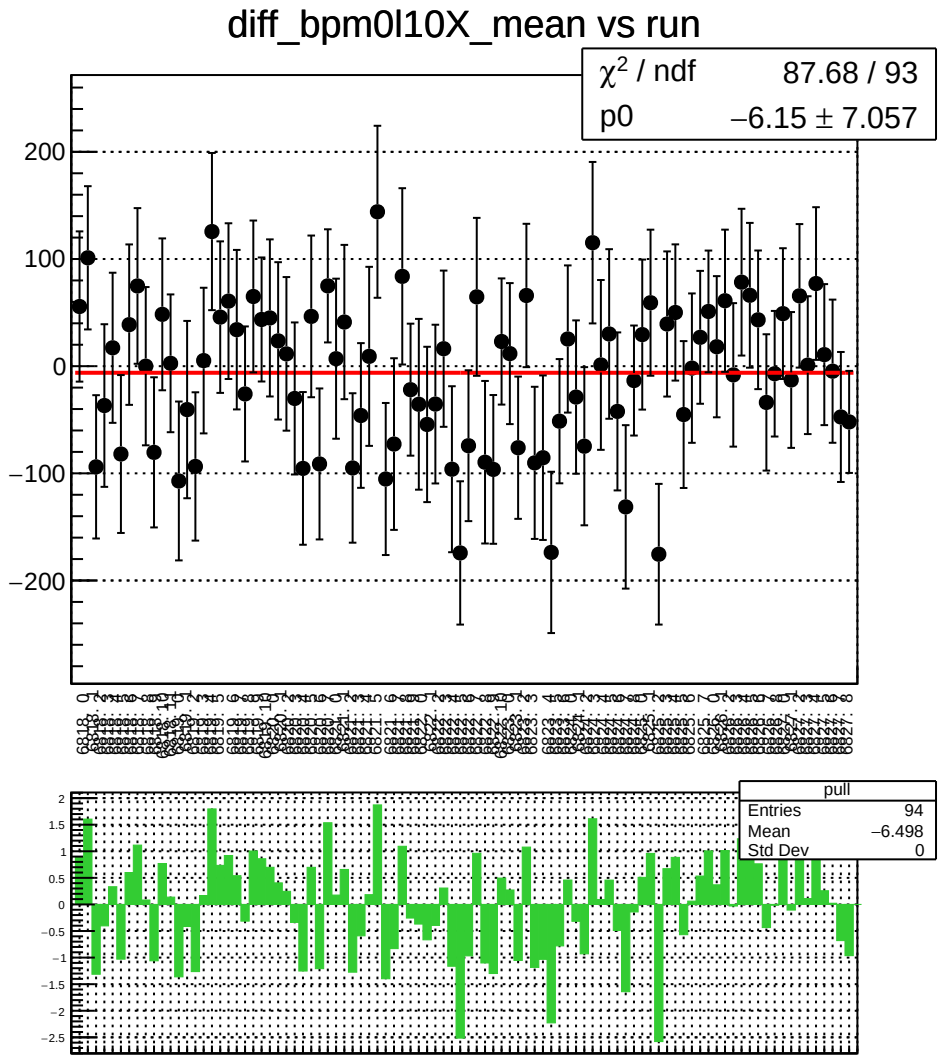

pull1D
Entries 94
Mean −0.004616
Std Dev 0.9648

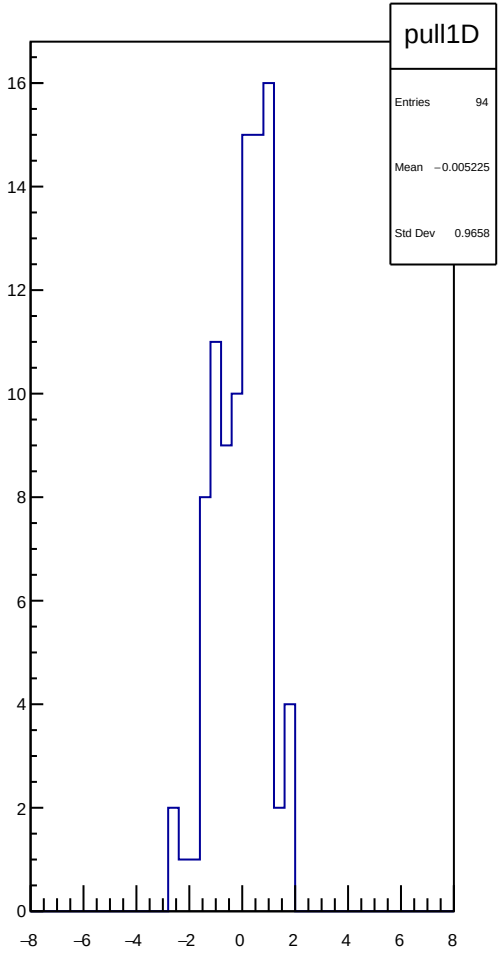

diff_bpm0l09X_rms vs run
χ² / ndf 9861 / 93
p0 7921 ± 5.928
9500
9000
8500
8000
7500
7000
6500

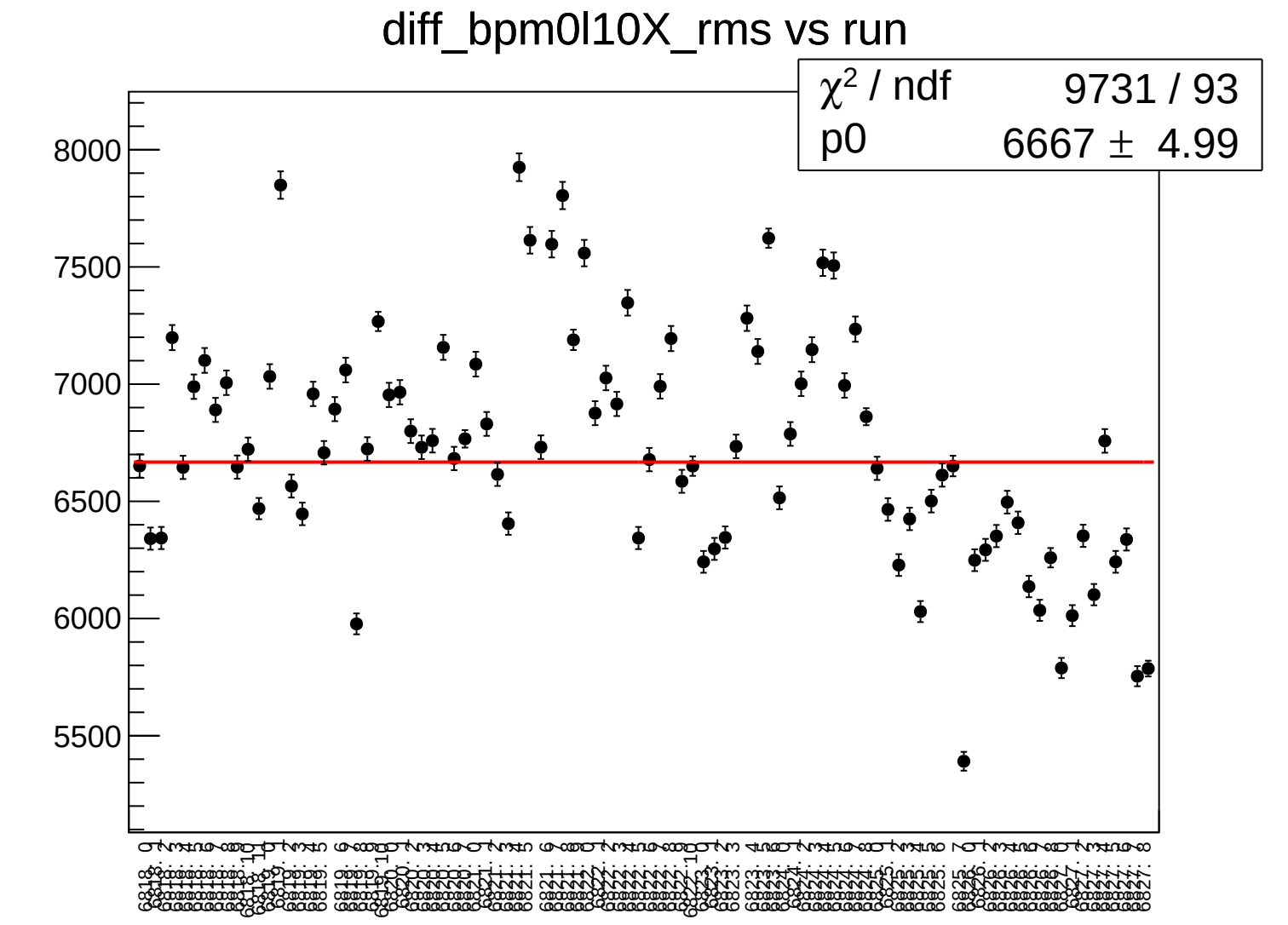

diff_bpm0l09Y_mean vs run
χ² / ndf 76.16 / 93
p0 1.555 ± 1.191
pull
Entries 94
Mean −70.3
Std Dev 0

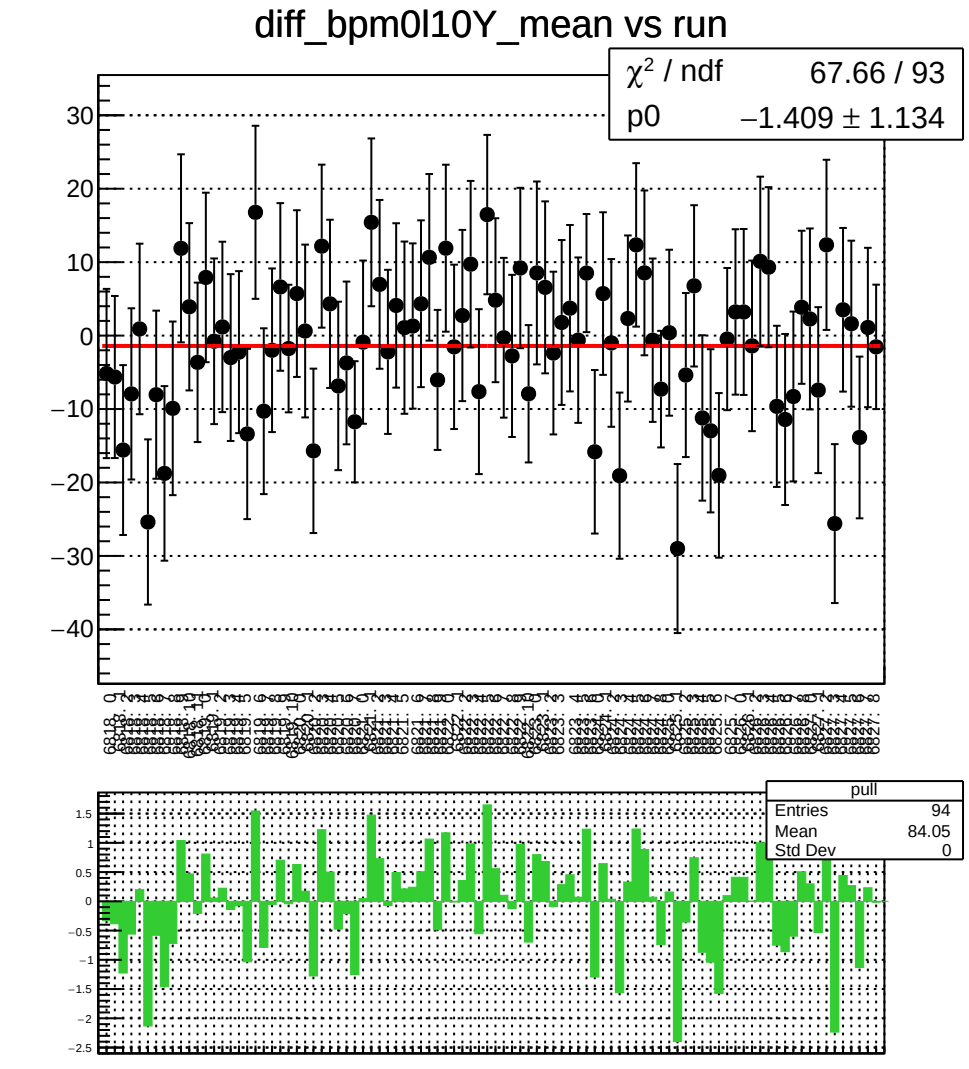

pull1D
Entries 94
Mean 0.008504
Std Dev 0.9001

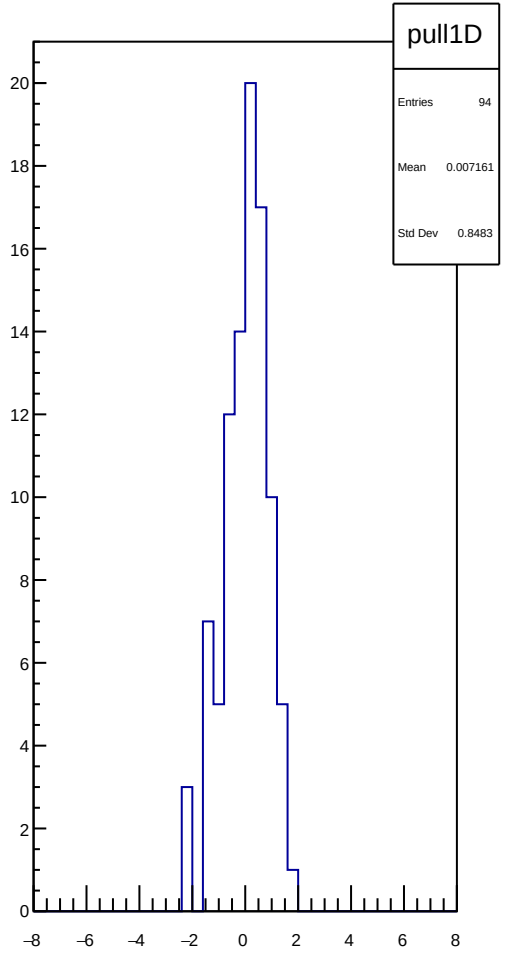

diff_bpm0l09Y_rms vs run
χ² / ndf 1246 / 93
p0 1128 ± 0.8423
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

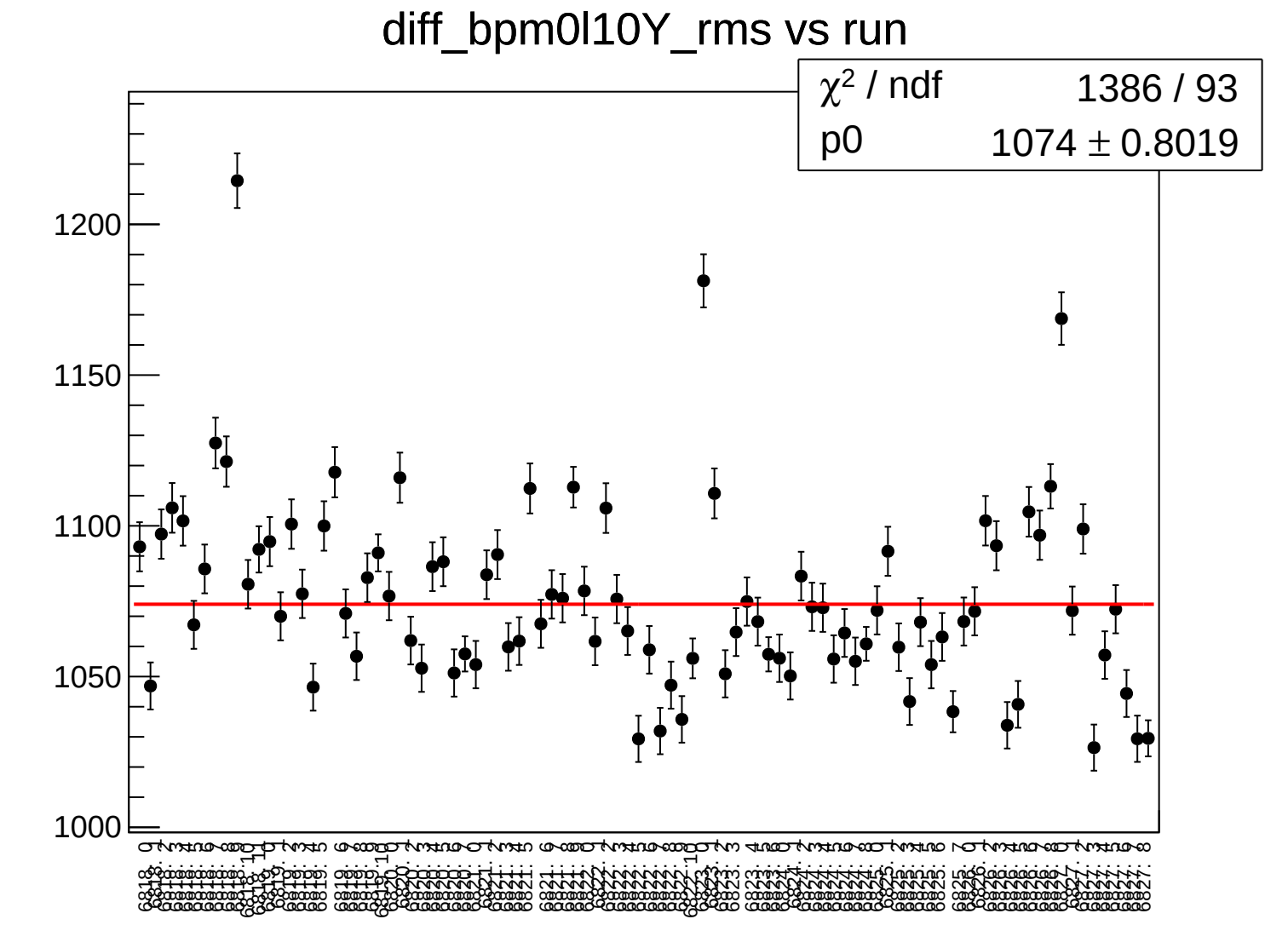

diff_bpm0l10X_mean vs run
χ² / ndf 87.68 / 93
p0 −6.15 ± 7.057
pull
Entries 94
Mean −6.498
Std Dev 0

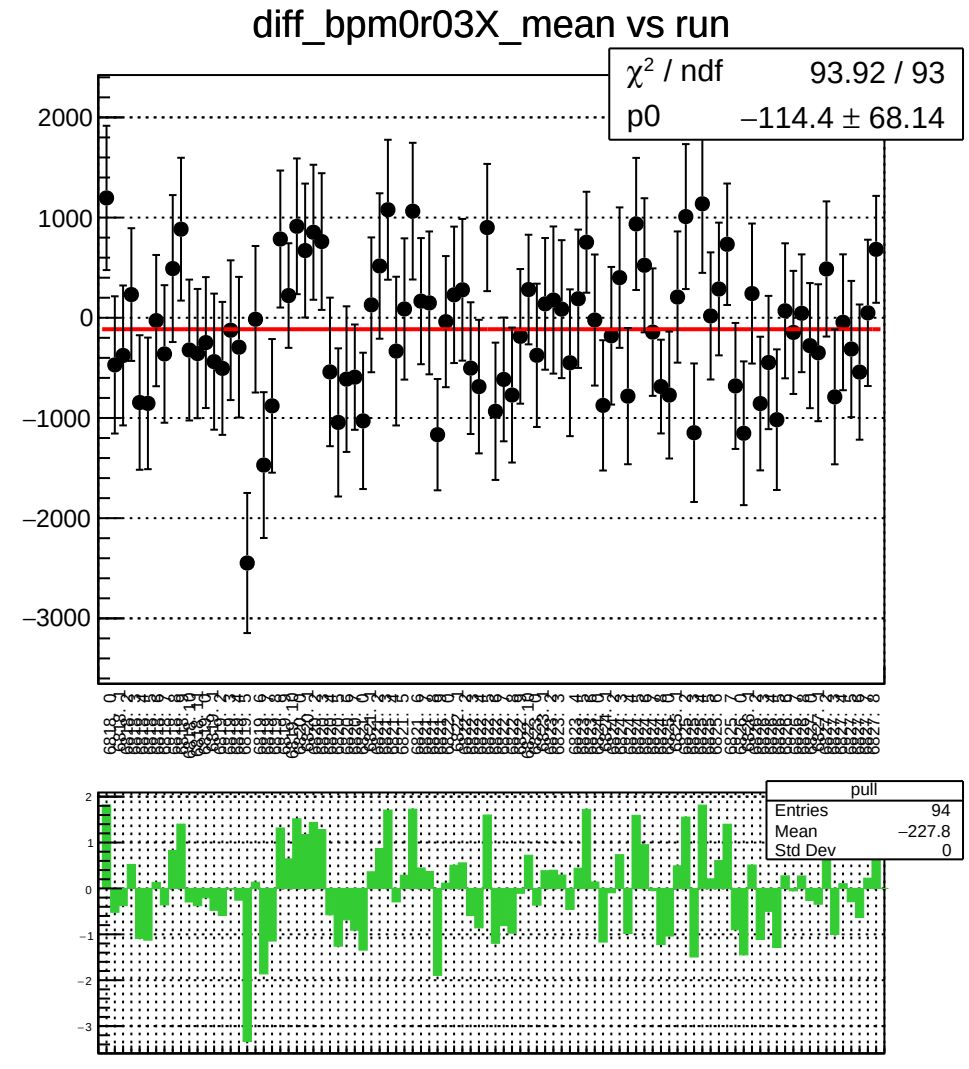

pull1D
Entries 94
Mean −0.005225
Std Dev 0.9658

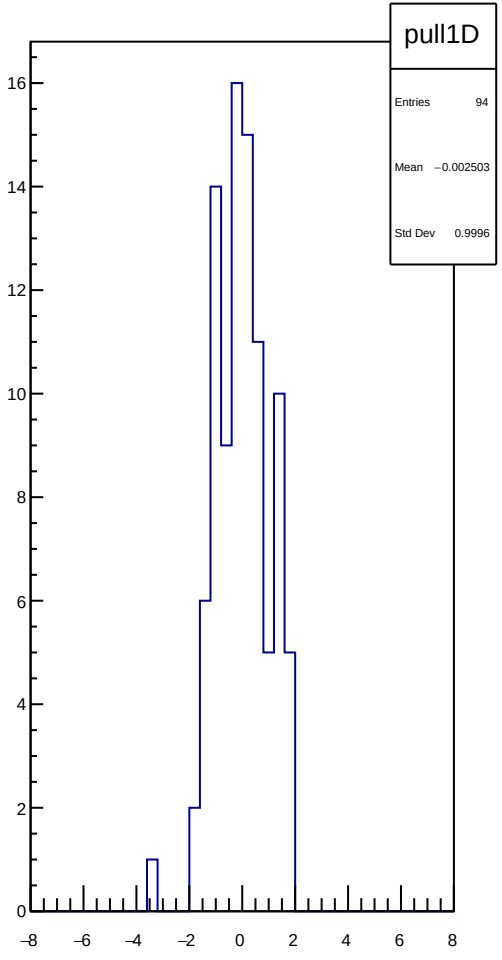

diff_bpm0l10X_rms vs run
χ² / ndf 9731 / 93
p0 6667 ± 4.99
8000
7500
7000
6500
6000
5500

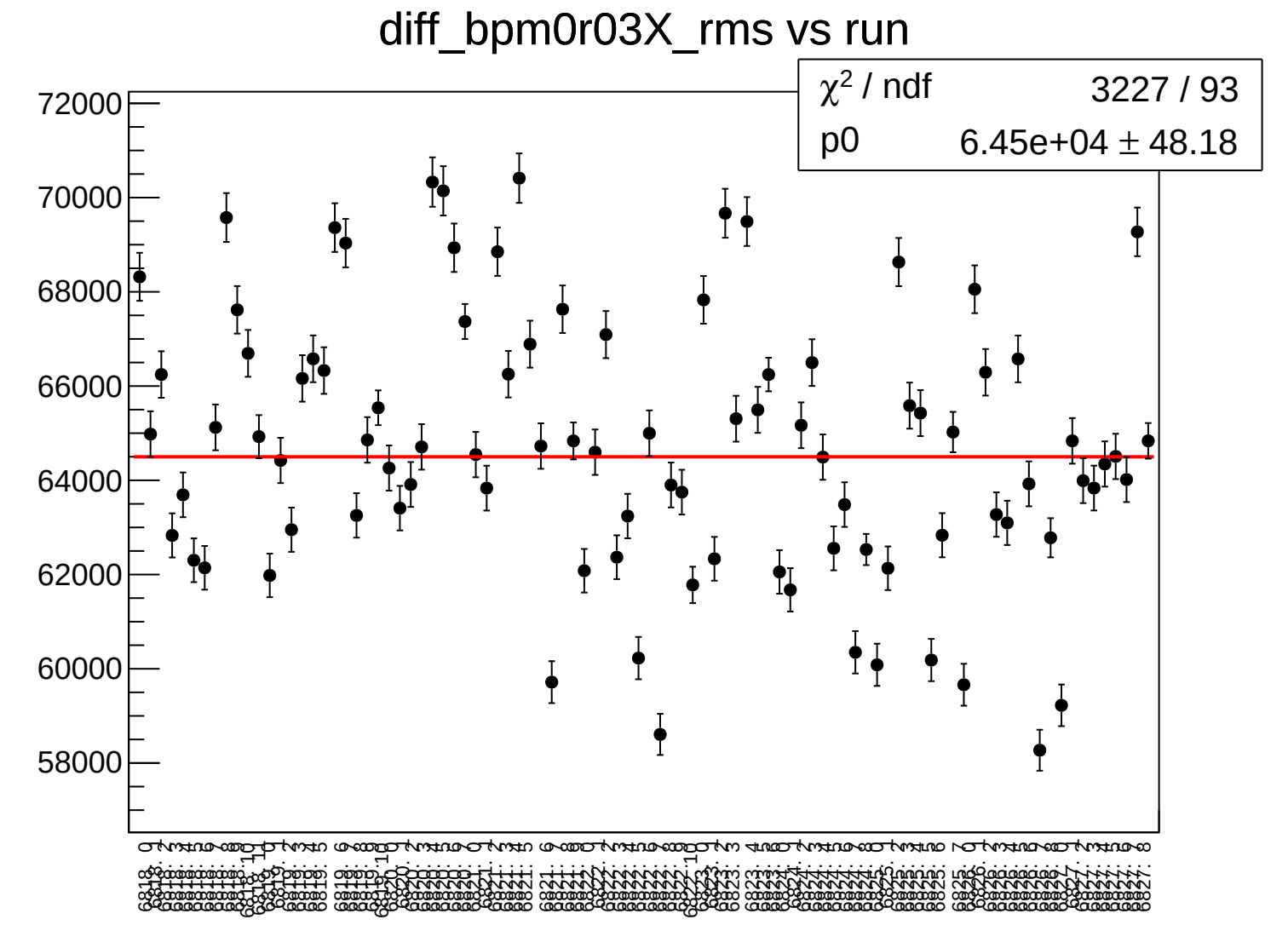

diff_bpm0l10Y_mean vs run
χ² / ndf 67.66 / 93
p0 −1.409 ± 1.134
pull
Entries 94
Mean 84.05
Std Dev 0

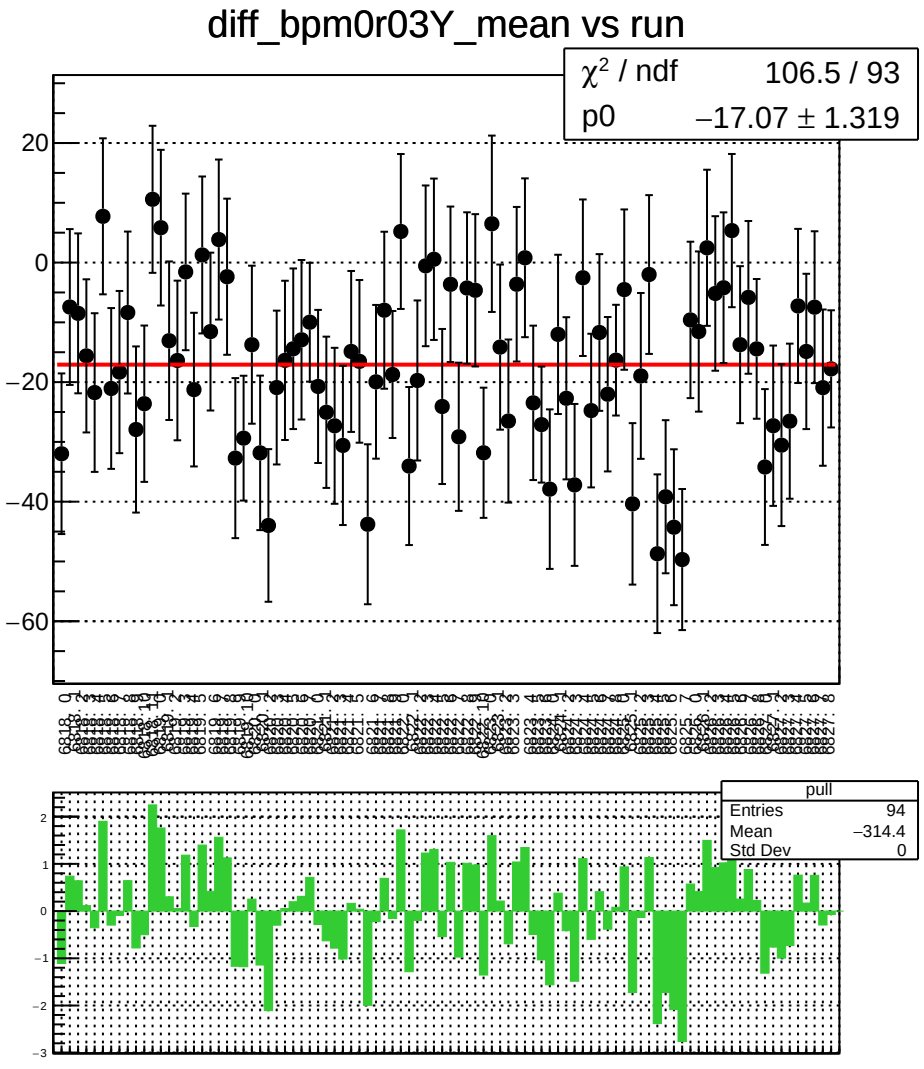

pull1D
Entries 94
Mean 0.007161
Std Dev 0.8483

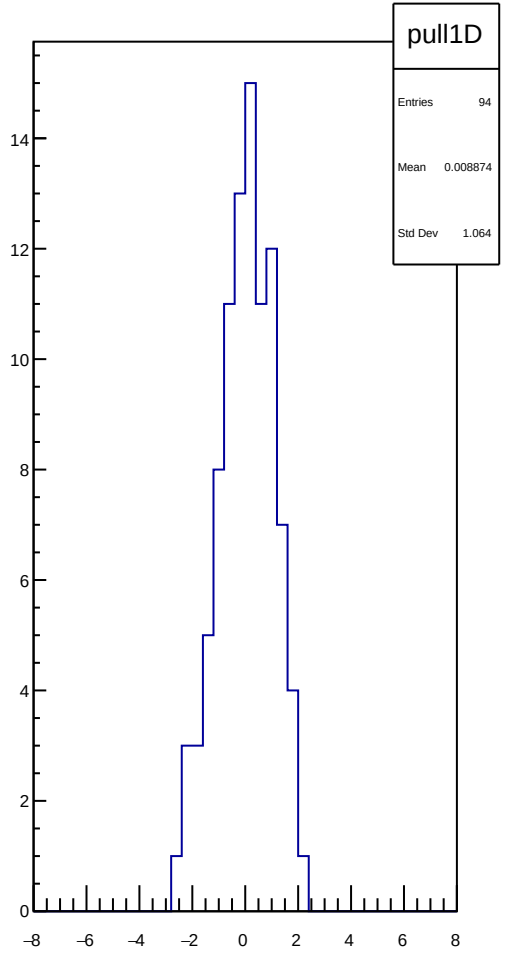

diff_bpm0l10Y_rms vs run
χ² / ndf 1386 / 93
p0 1074 ± 0.8019
1200
1150
1100
1050
1000

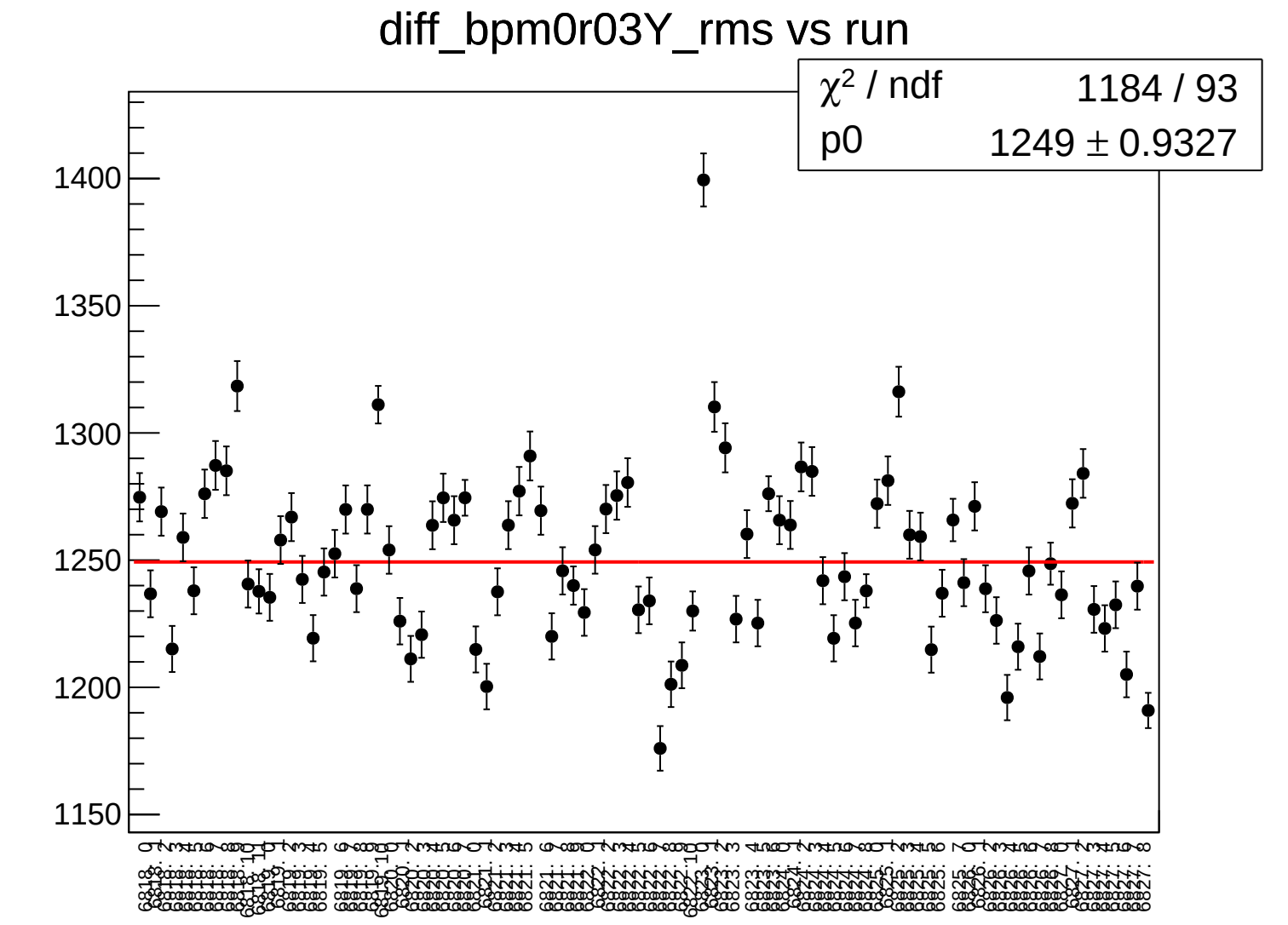

diff_bpm0r03X_mean vs run
χ² / ndf 93.92 / 93
p0 −114.4 ± 68.14
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −227.8
Std Dev 0
2
1
0
−1
−2
−3

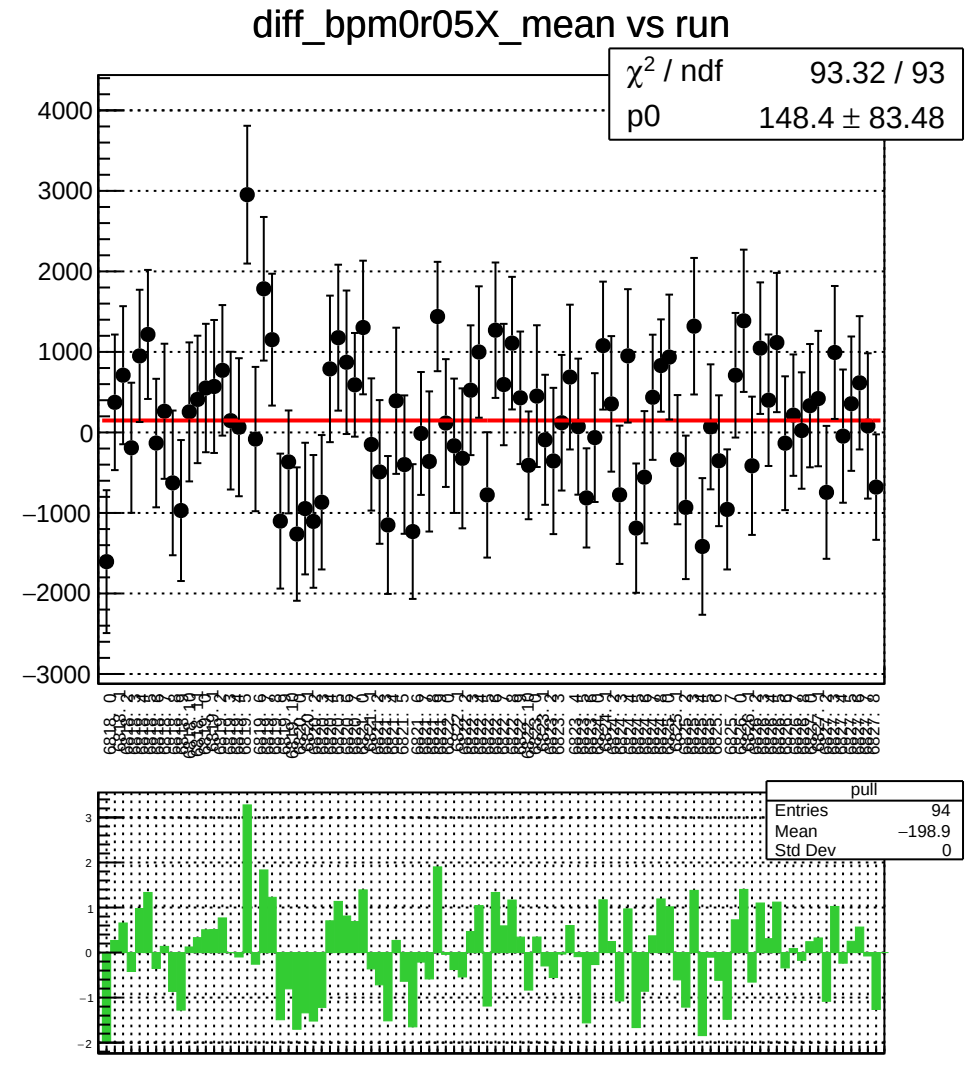

pull1D
Entries 94
Mean −0.002503
Std Dev 0.9996
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

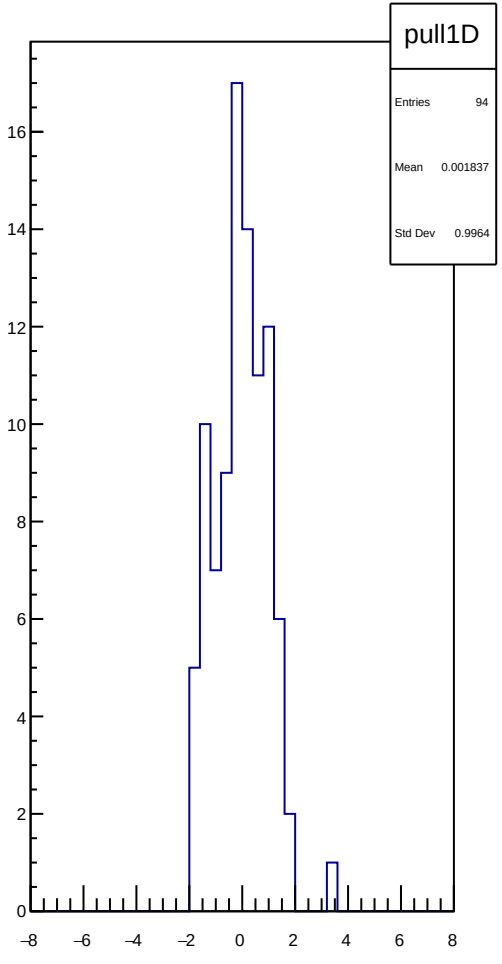

diff_bpm0r03X_rms vs run
χ² / ndf 3227 / 93
p0 6.45e+04 ± 48.18
72000
70000
68000
66000
64000
62000
60000
58000

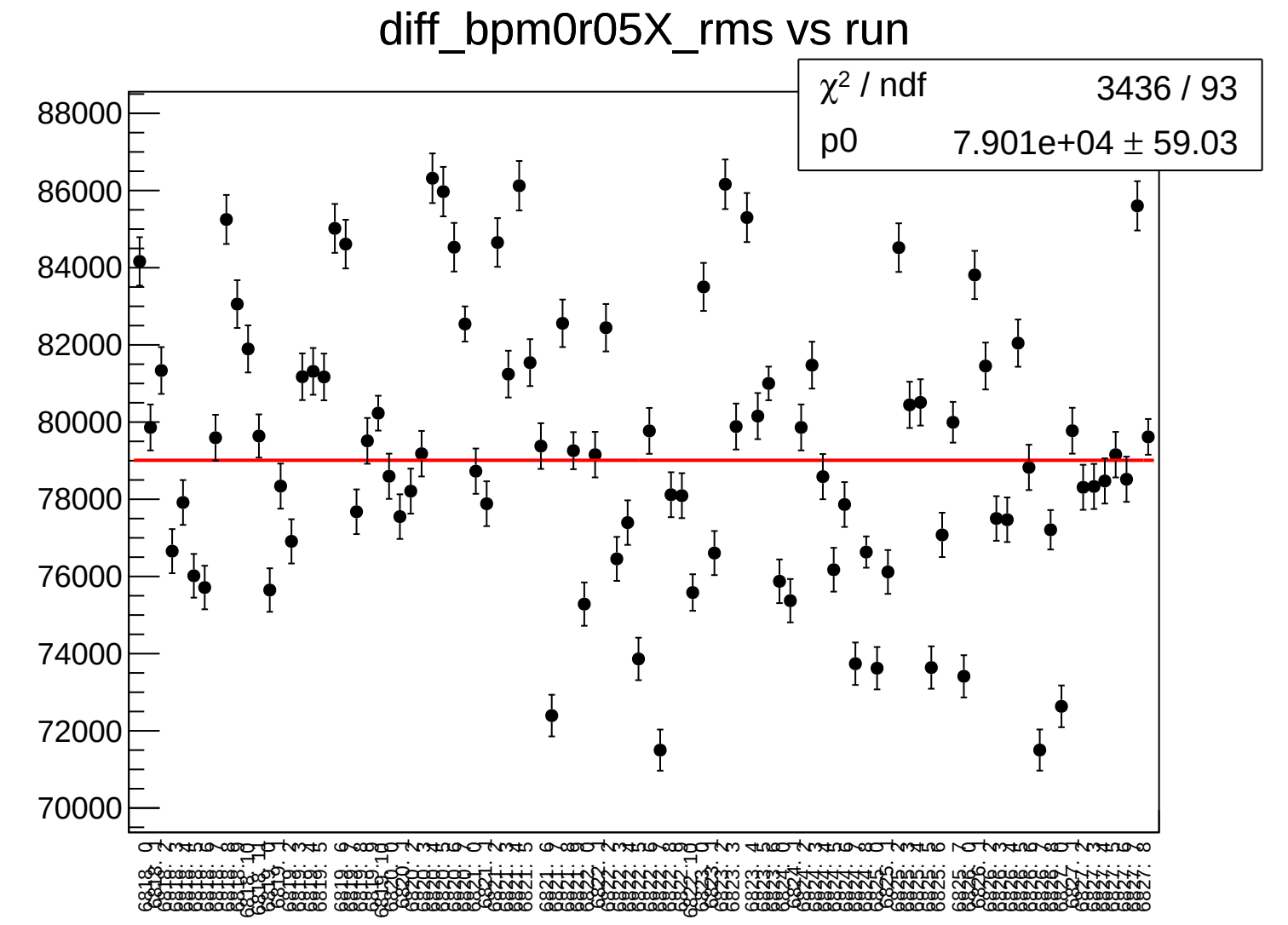

diff_bpm0r03Y_mean vs run
χ² / ndf 106.5 / 93
p0 −17.07 ± 1.319
20
0
−20
−40
−60
pull
Entries 94
Mean −314.4
Std Dev 0
2
1
0
−1
−2
−3

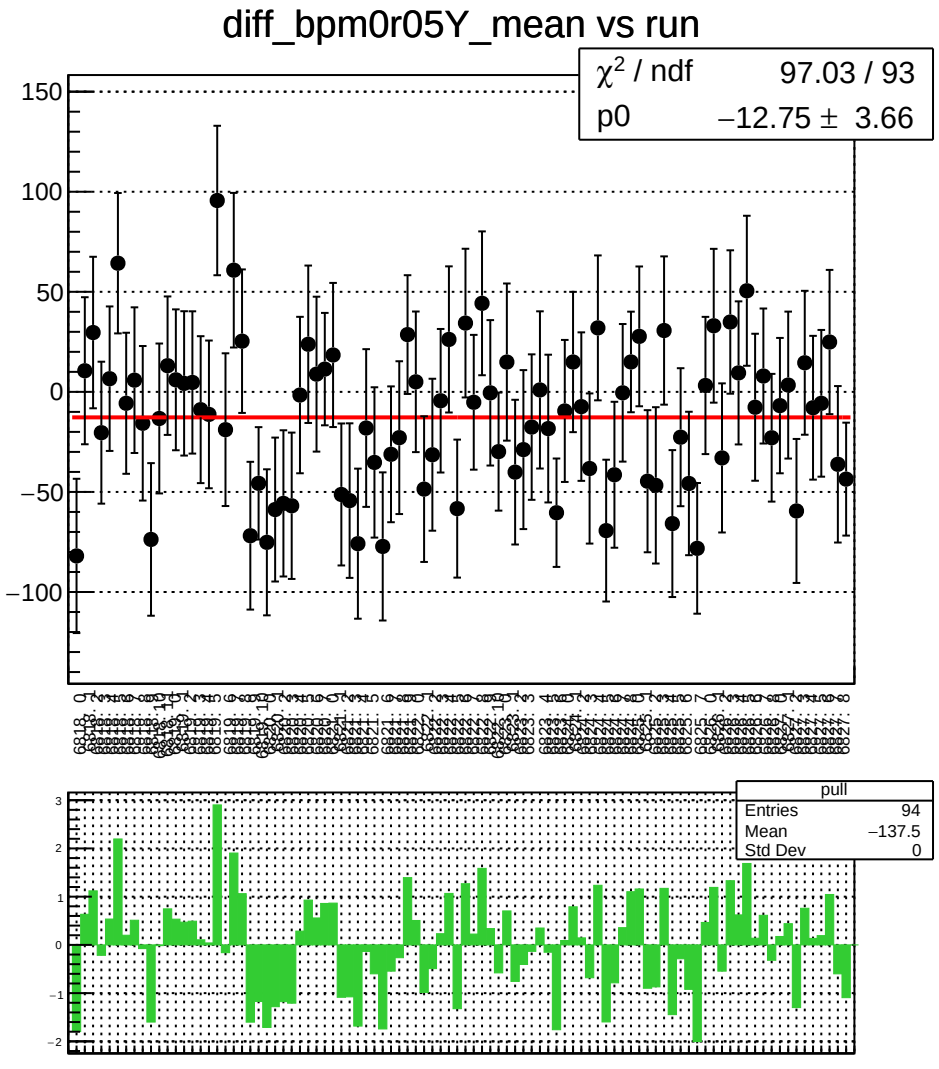

pull1D
Entries 94
Mean 0.008874
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

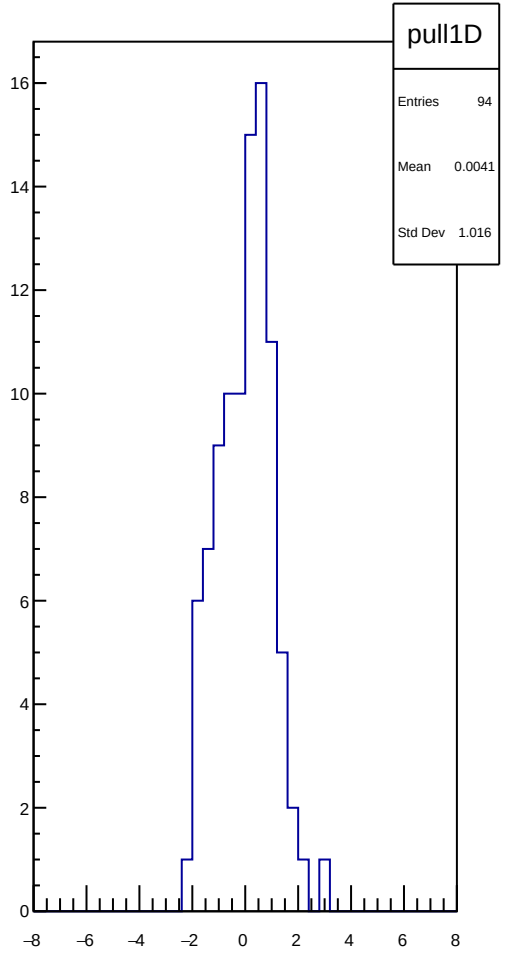

diff_bpm0r03Y_rms vs run
χ² / ndf 1184 / 93
p0 1249 ± 0.9327
1400
1350
1300
1250
1200
1150

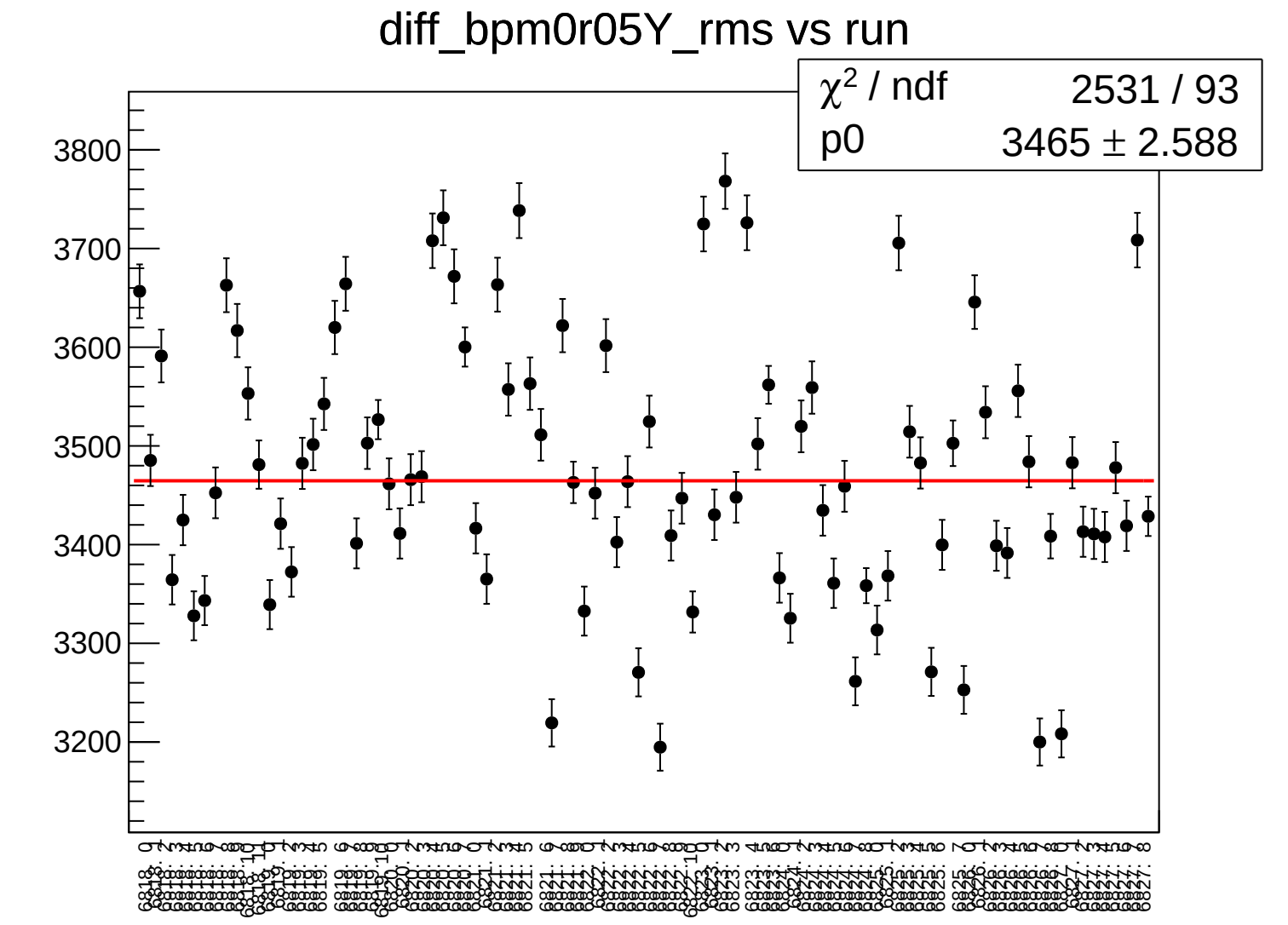

diff_bpm0r05X_mean vs run
χ^2 / ndf 93.32 / 93
p0 148.4 ± 83.48
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −198.9
Std Dev 0
3
2
1
0
−1
−2

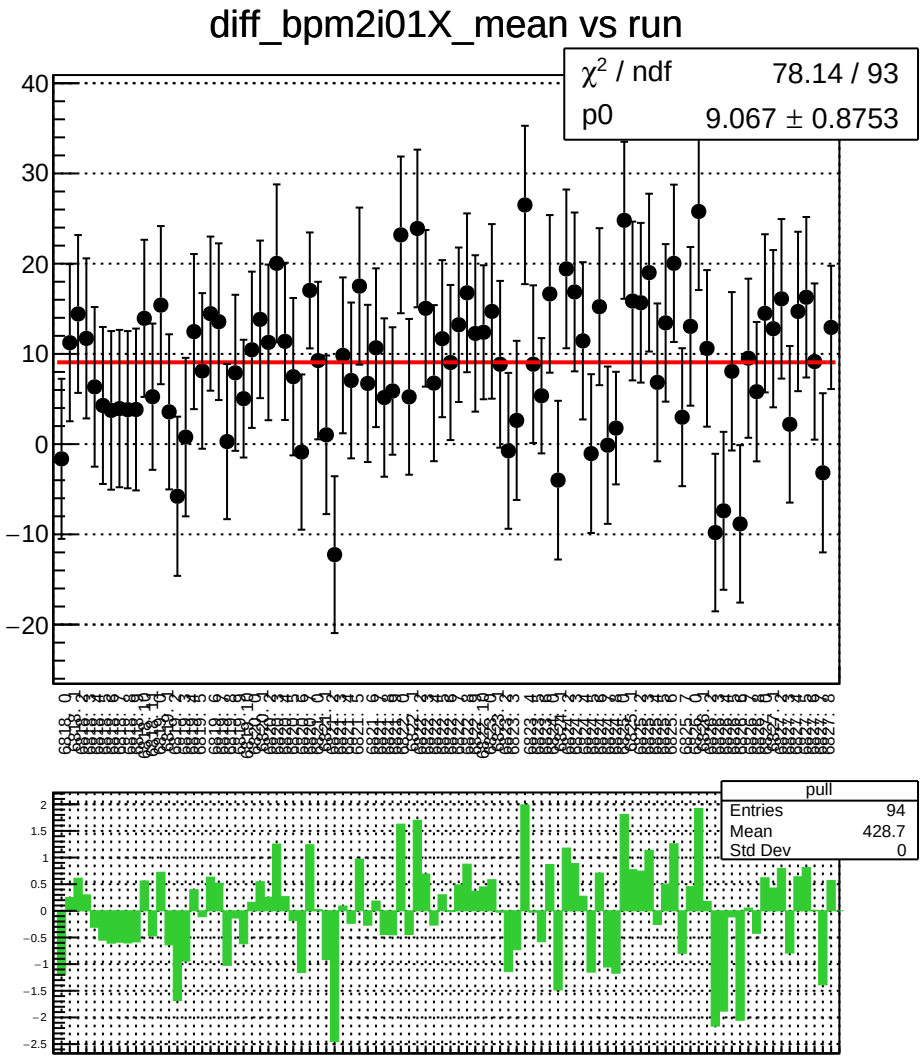

pull1D
Entries 94
Mean 0.001837
Std Dev 0.9964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

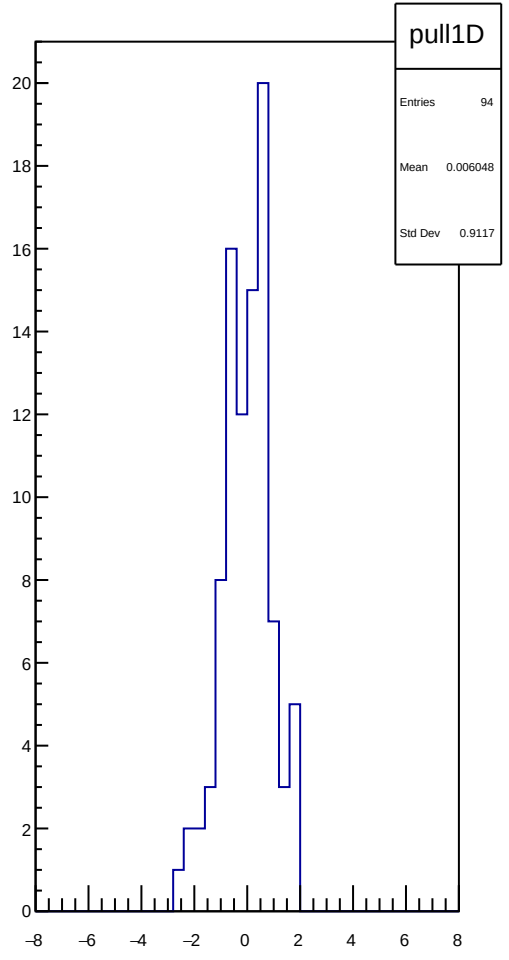

diff_bpm0r05X_rms vs run
χ² / ndf 3436 / 93
p0 7.901e+04 ± 59.03
88000
86000
84000
82000
80000
78000
76000
74000
72000
70000

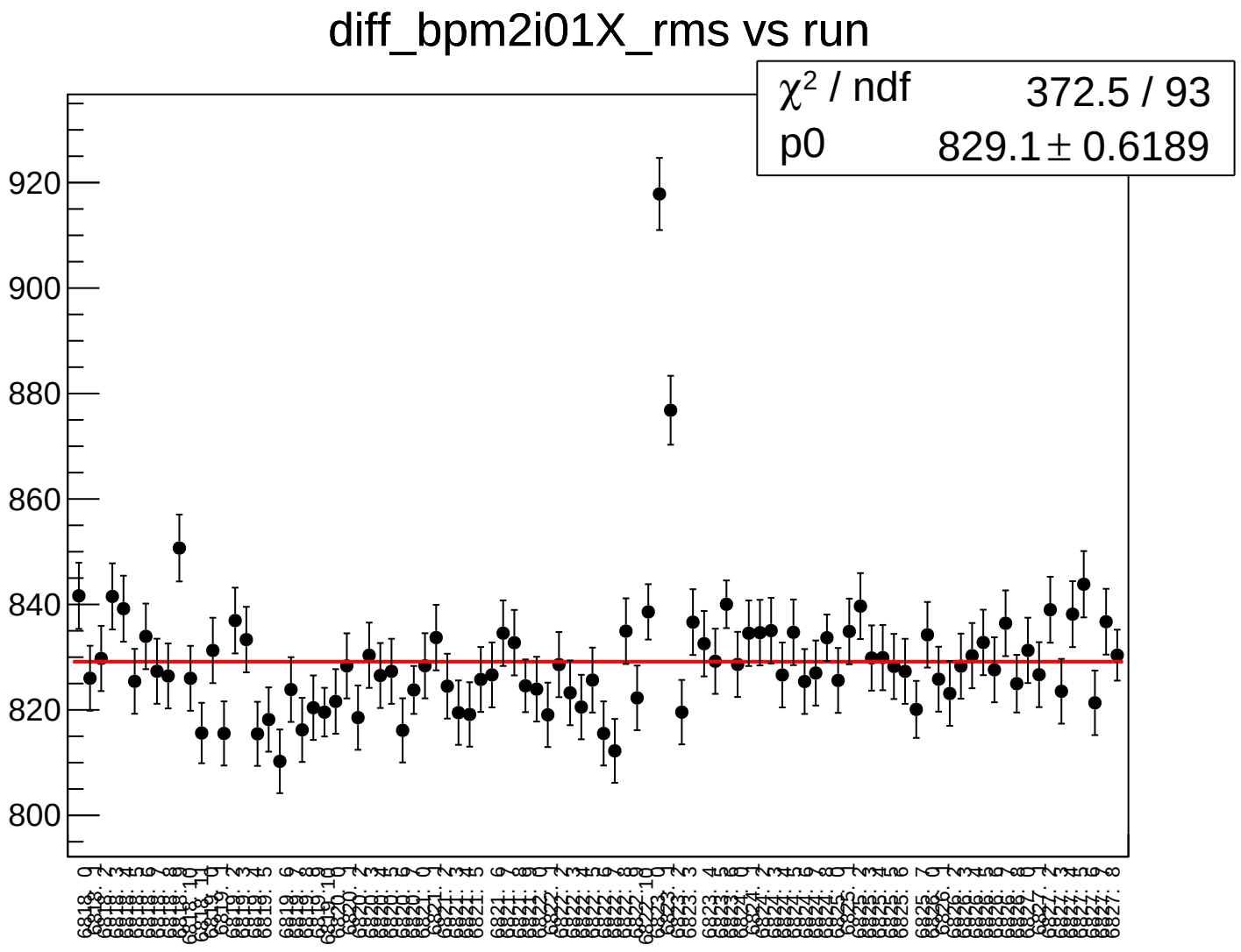

diff_bpm0r05Y_mean vs run
χ² / ndf 97.03 / 93
p0 −12.75 ± 3.66
150
100
50
0
−50
−100
pull
Entries 94
Mean −137.5
Std Dev 0
3
2
1
0
−1
−2

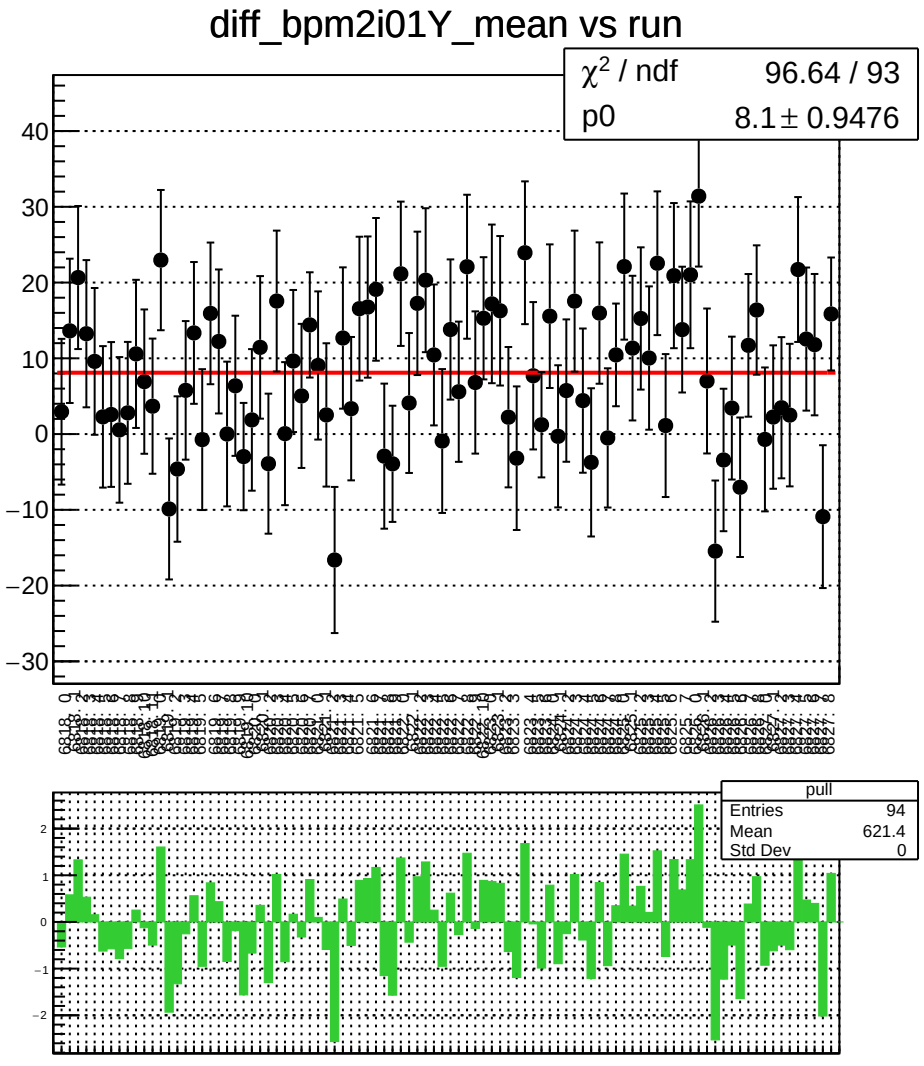

pull1D
Entries 94
Mean 0.0041
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

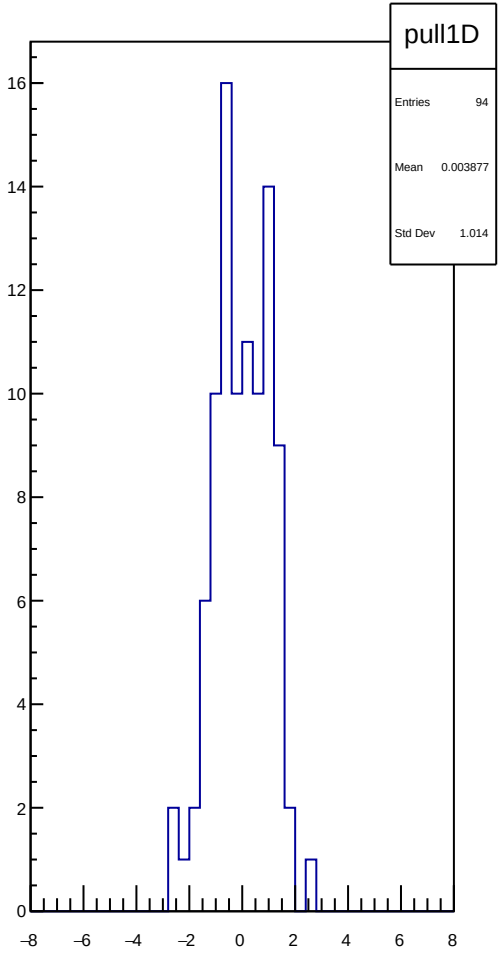

diff_bpm0r05Y_rms vs run
χ² / ndf 2531 / 93
p0 3465 ± 2.588
3800
3700
3600
3500
3400
3300
3200

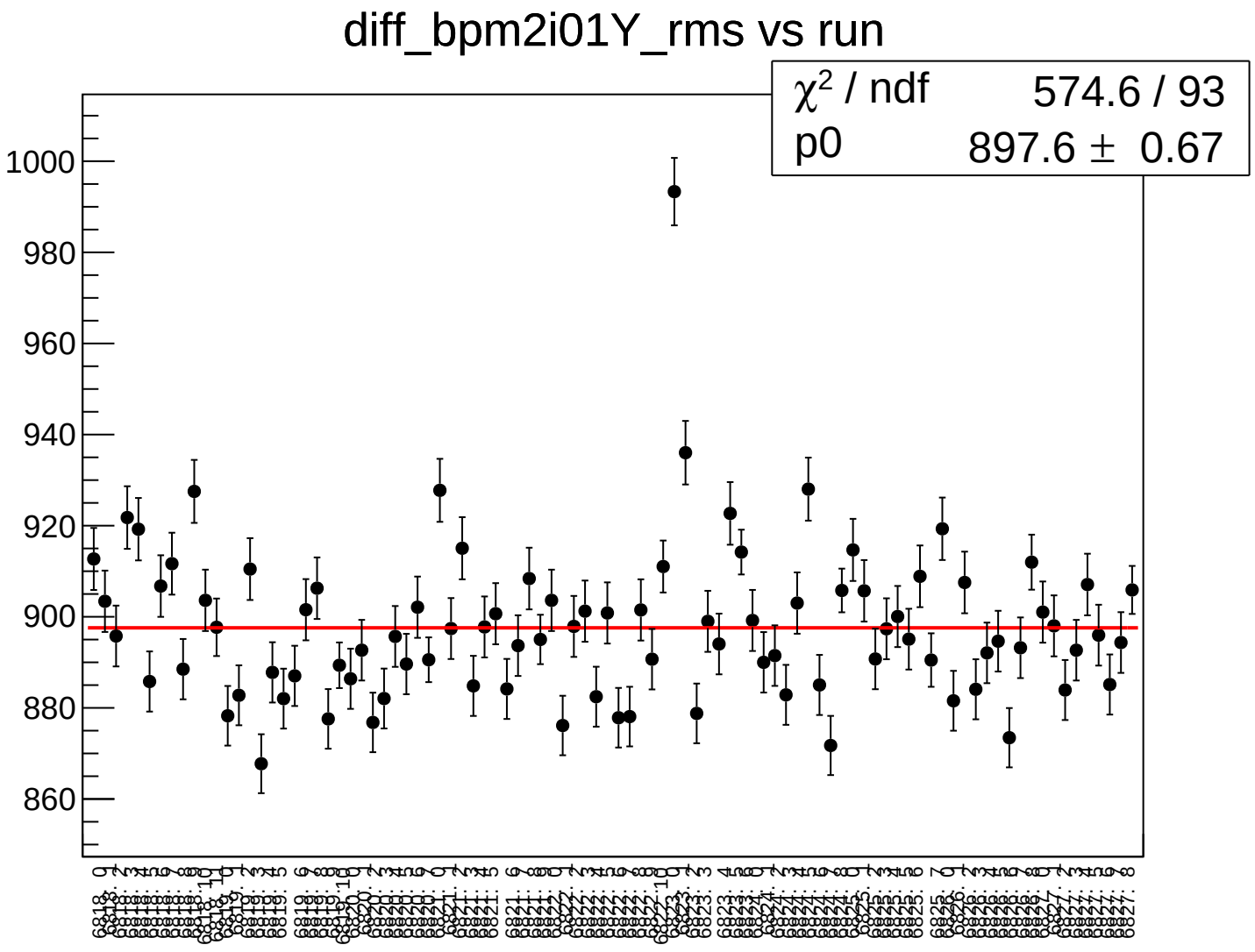

diff_bpm2i01X_mean vs run
χ² / ndf 78.14 / 93
p0 9.067 ± 0.8753
pull
Entries 94
Mean 428.7
Std Dev 0

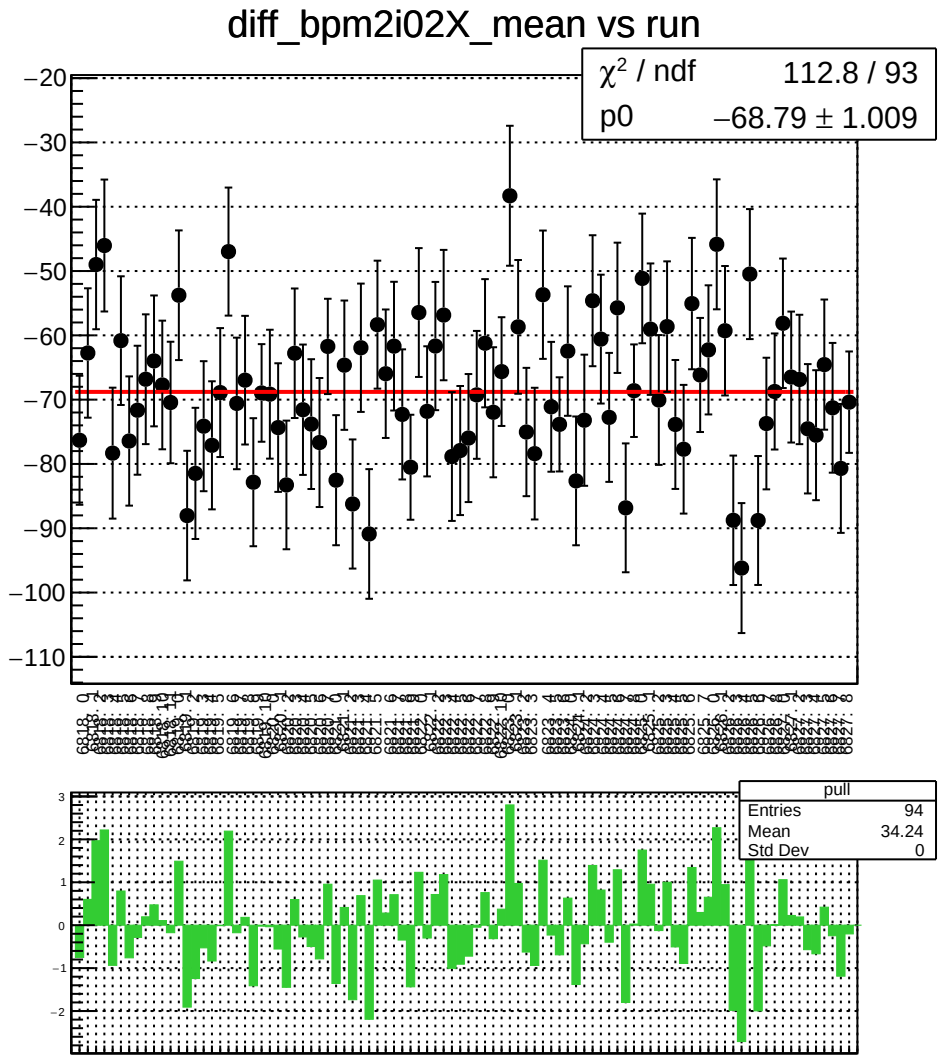

pull1D
Entries 94
Mean 0.006048
Std Dev 0.9117

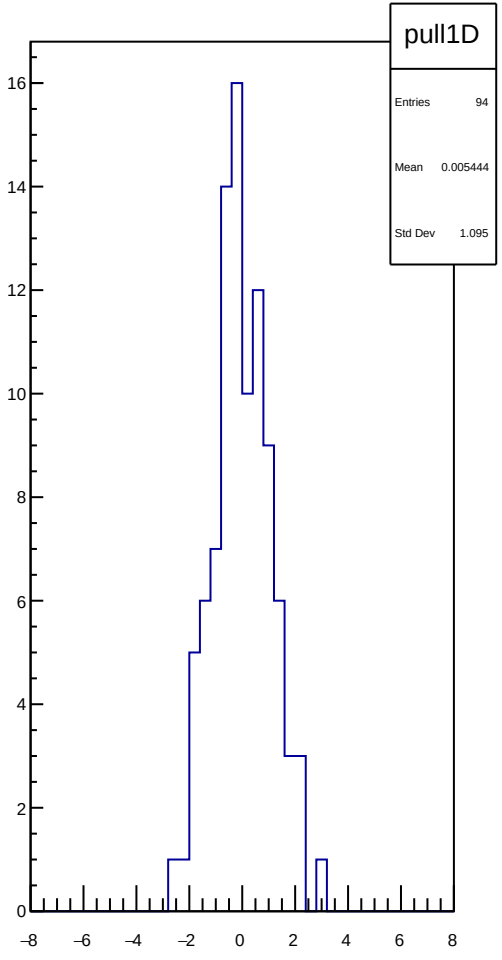

diff_bpm2i01X_rms vs run
χ² / ndf 372.5 / 93
p0 829.1 ± 0.6189
920
900
880
860
840
820
800

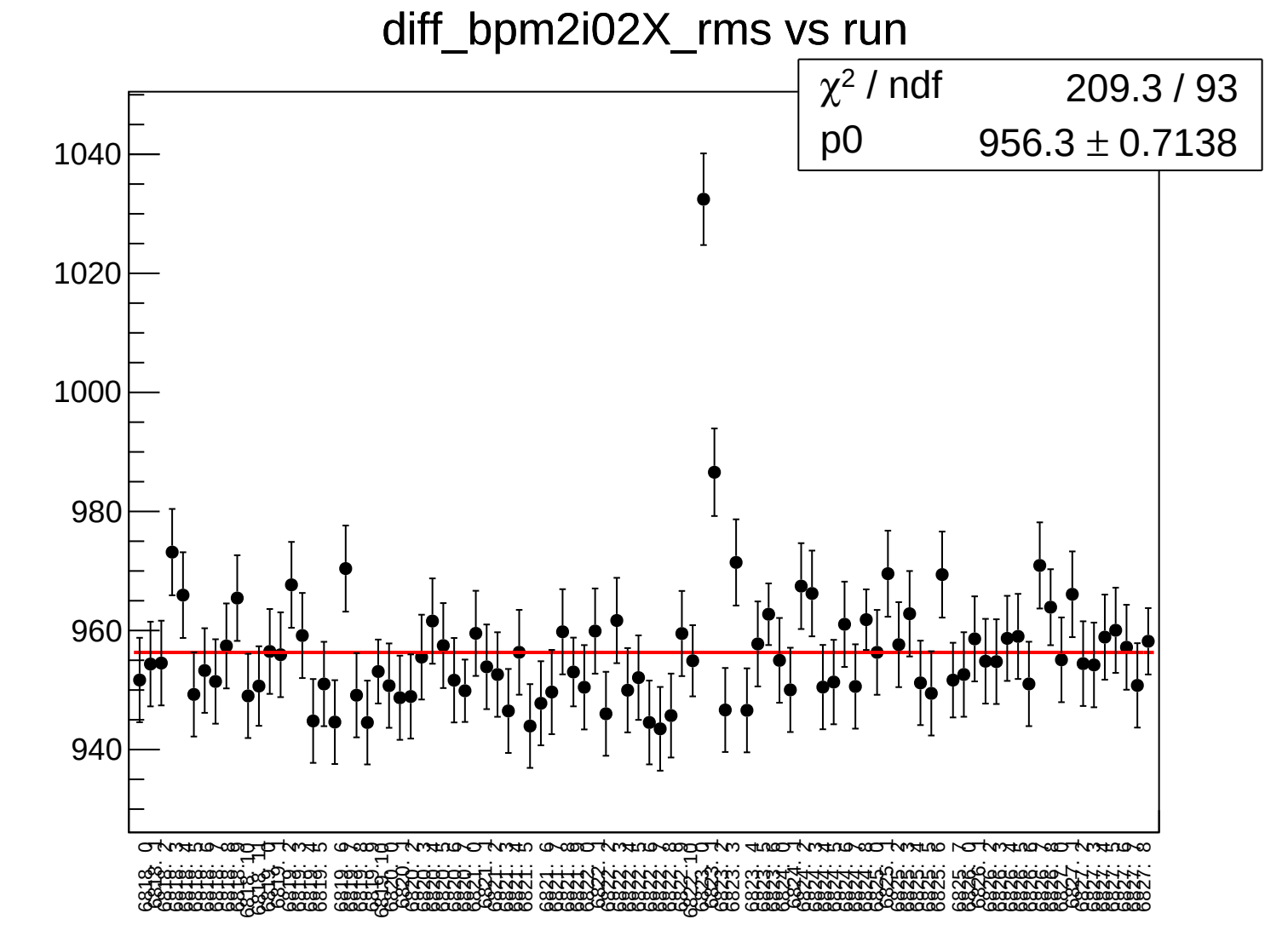

diff_bpm2i01Y_mean vs run
χ^2 / ndf 96.64 / 93
p0 8.1 ± 0.9476
pull
Entries 94
Mean 621.4
Std Dev 0

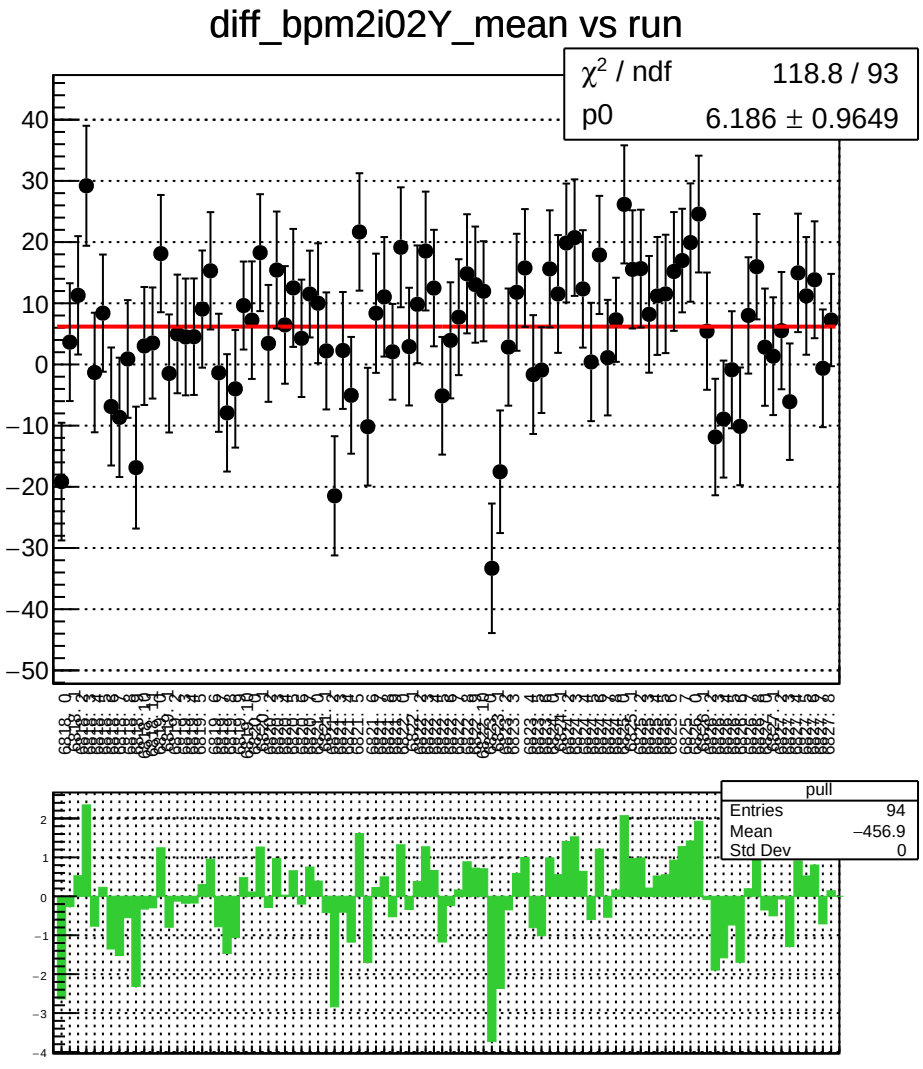

pull1D
Entries 94
Mean 0.003877
Std Dev 1.014

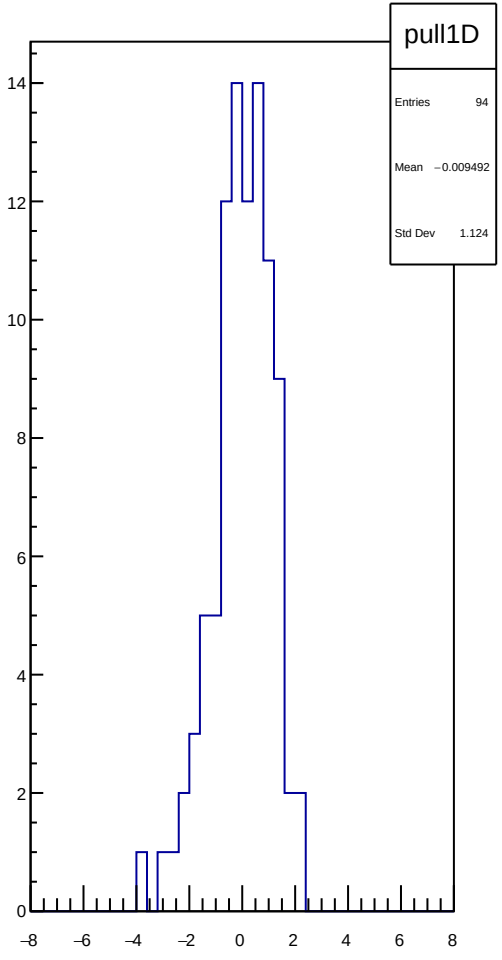

diff_bpm2i01Y_rms vs run
χ² / ndf 574.6 / 93
p0 897.6 ± 0.67
1000
980
960
940
920
900
880
860

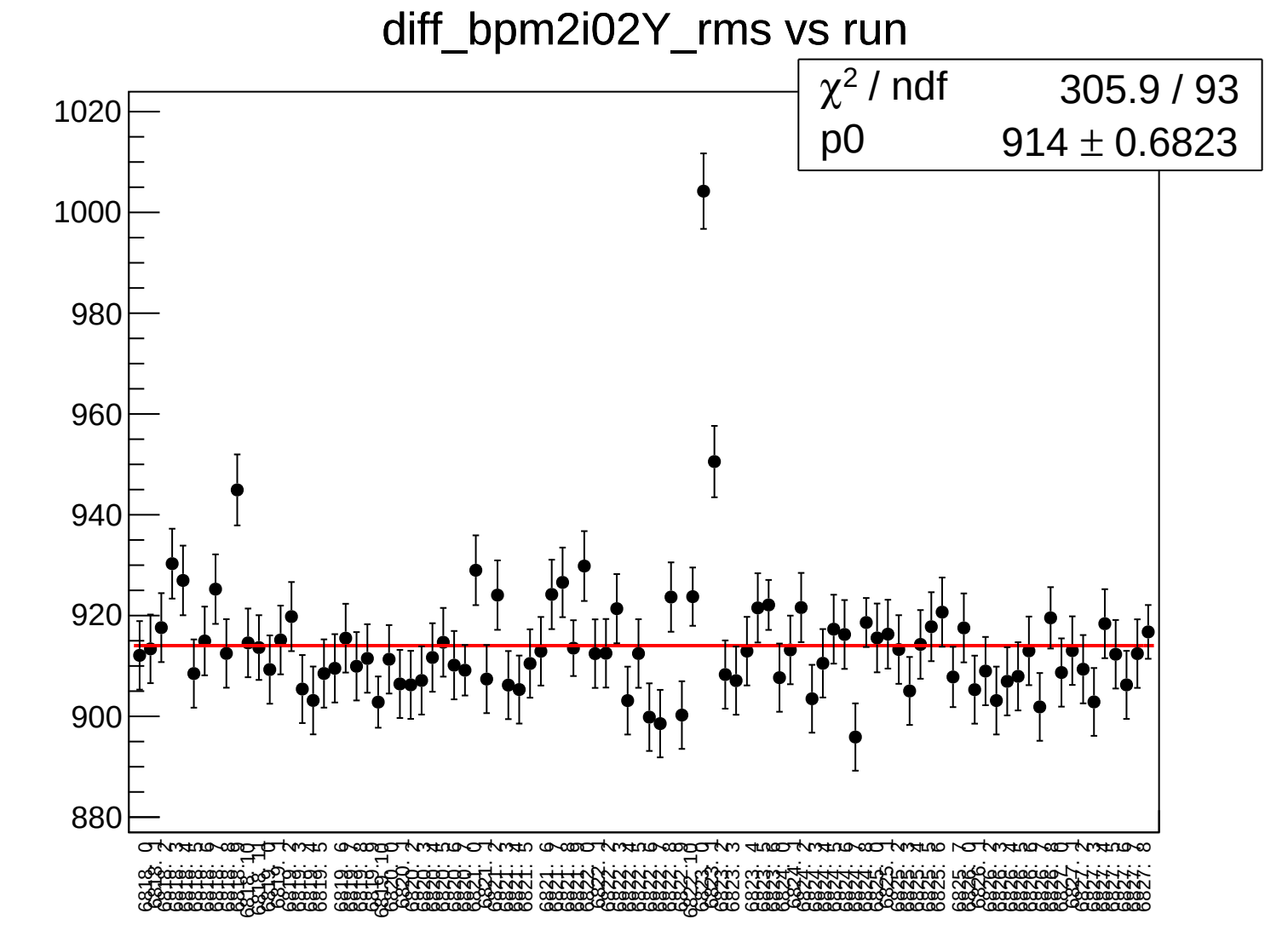

diff_bpm2i02X_mean vs run
χ² / ndf 112.8 / 93
p0 −68.79 ± 1.009
pull
Entries 94
Mean 34.24
Std Dev 0

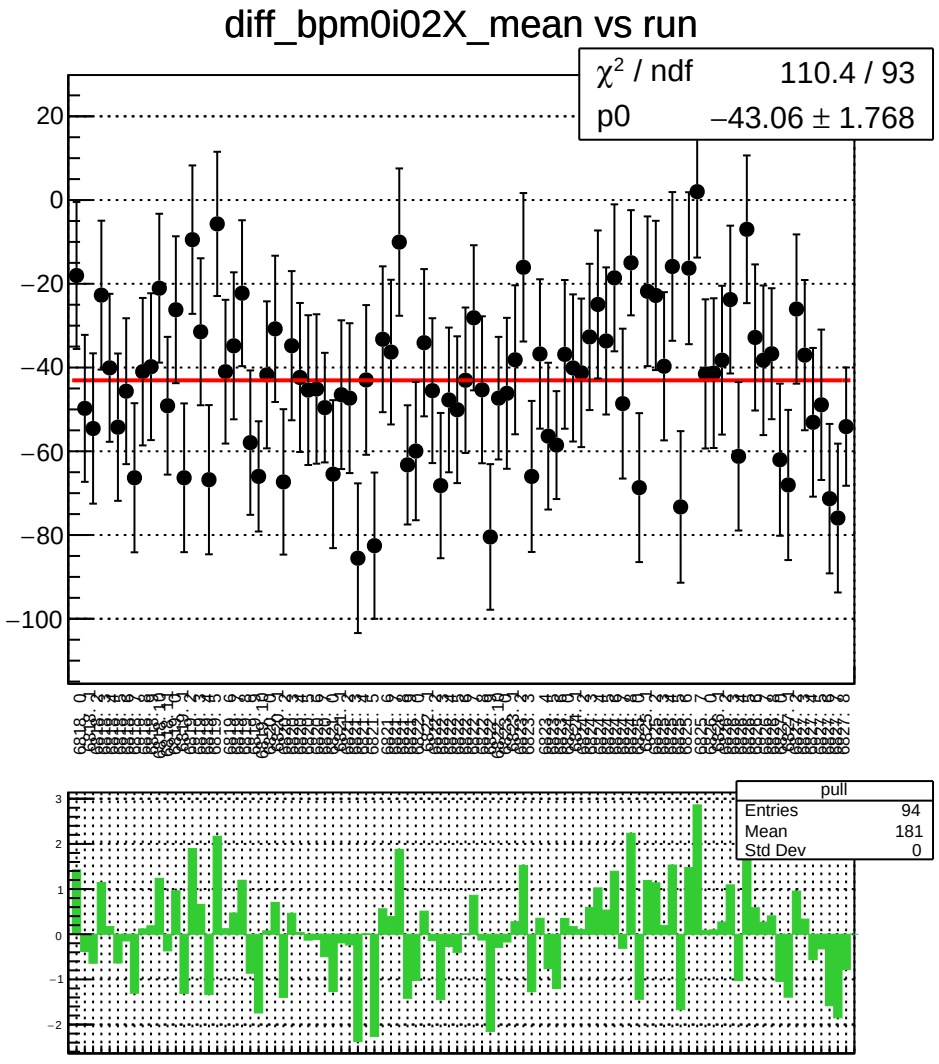

pull1D
Entries 94
Mean 0.005444
Std Dev 1.095

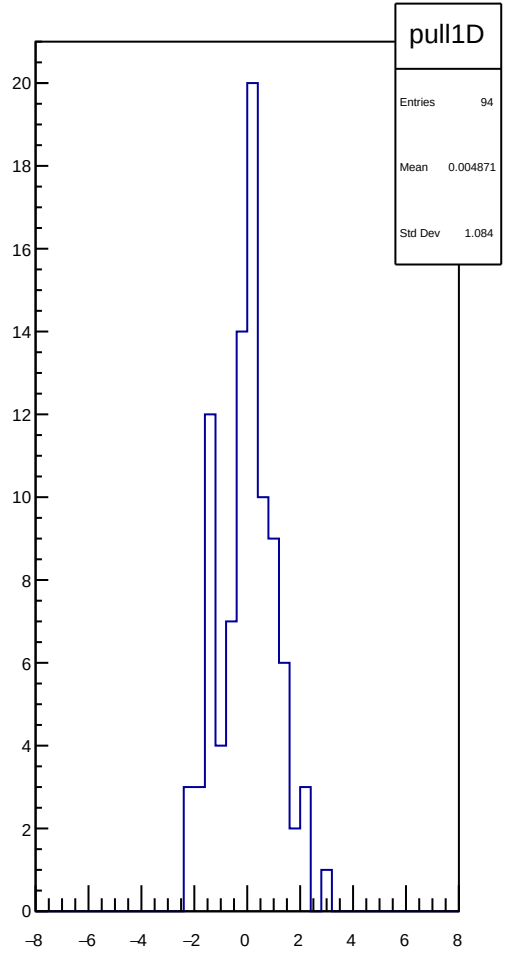

diff_bpm2i02X_rms vs run
χ² / ndf 209.3 / 93
p0 956.3 ± 0.7138
1040
1020
1000
980
960
940

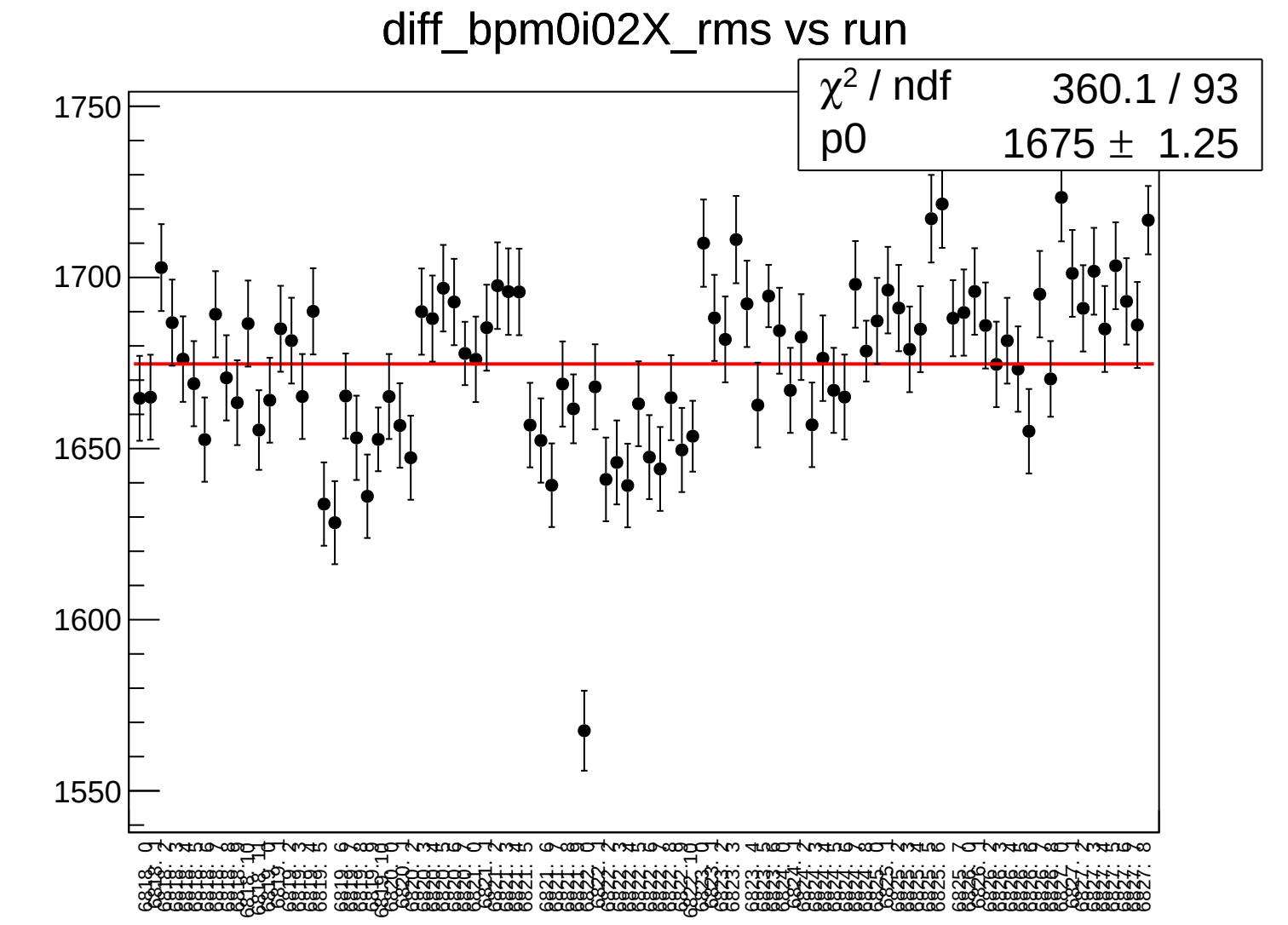

diff_bpm2i02Y_mean vs run
χ² / ndf 118.8 / 93
p0 6.186 ± 0.9649
pull
Entries 94
Mean −456.9
Std Dev 0

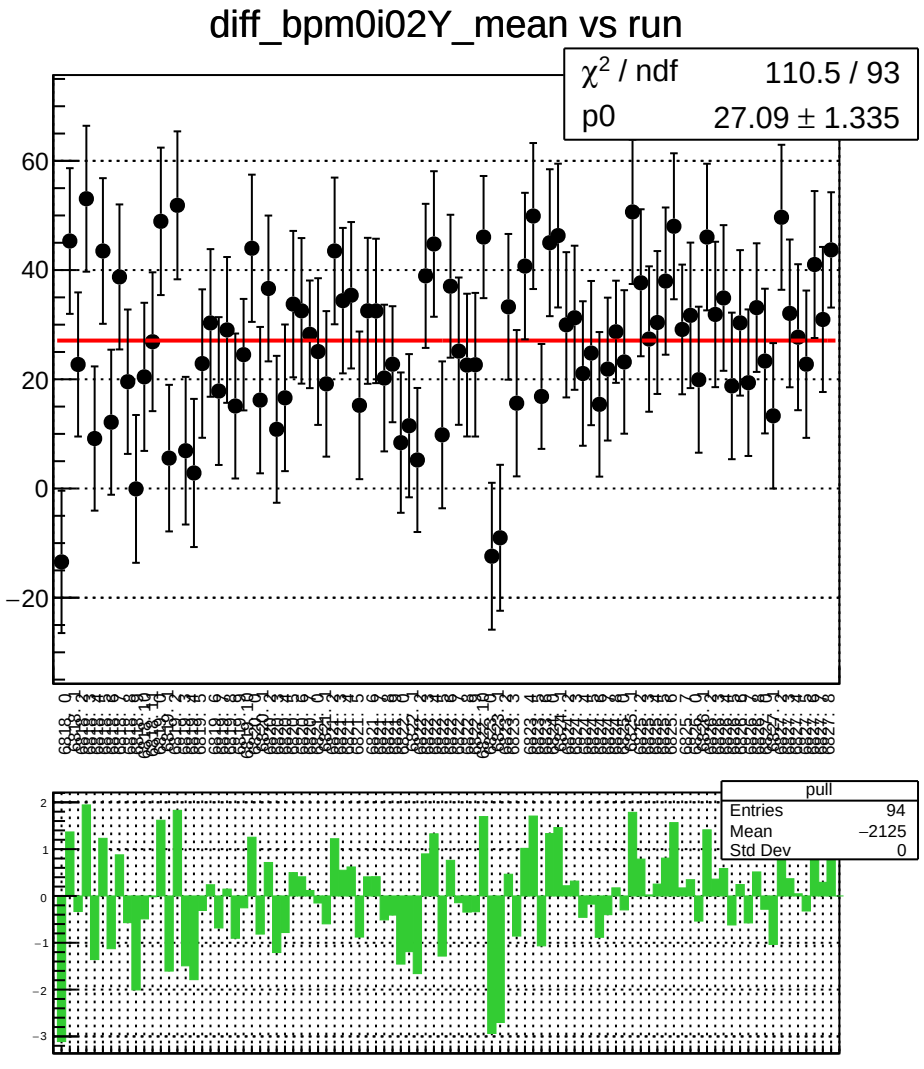

pull1D
Entries 94
Mean −0.009492
Std Dev 1.124

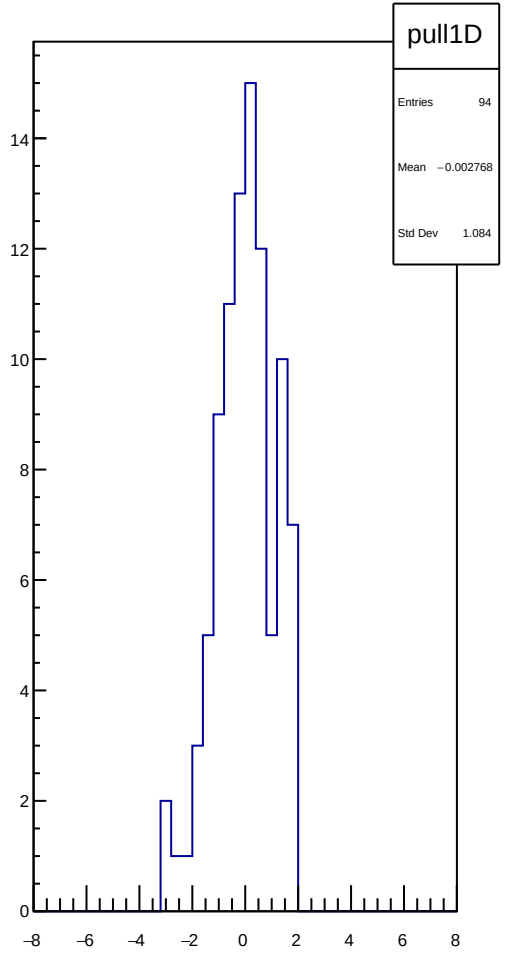

diff_bpm2i02Y_rms vs run
χ² / ndf 305.9 / 93
p0 914 ± 0.6823
1020
1000
980
960
940
920
900
880

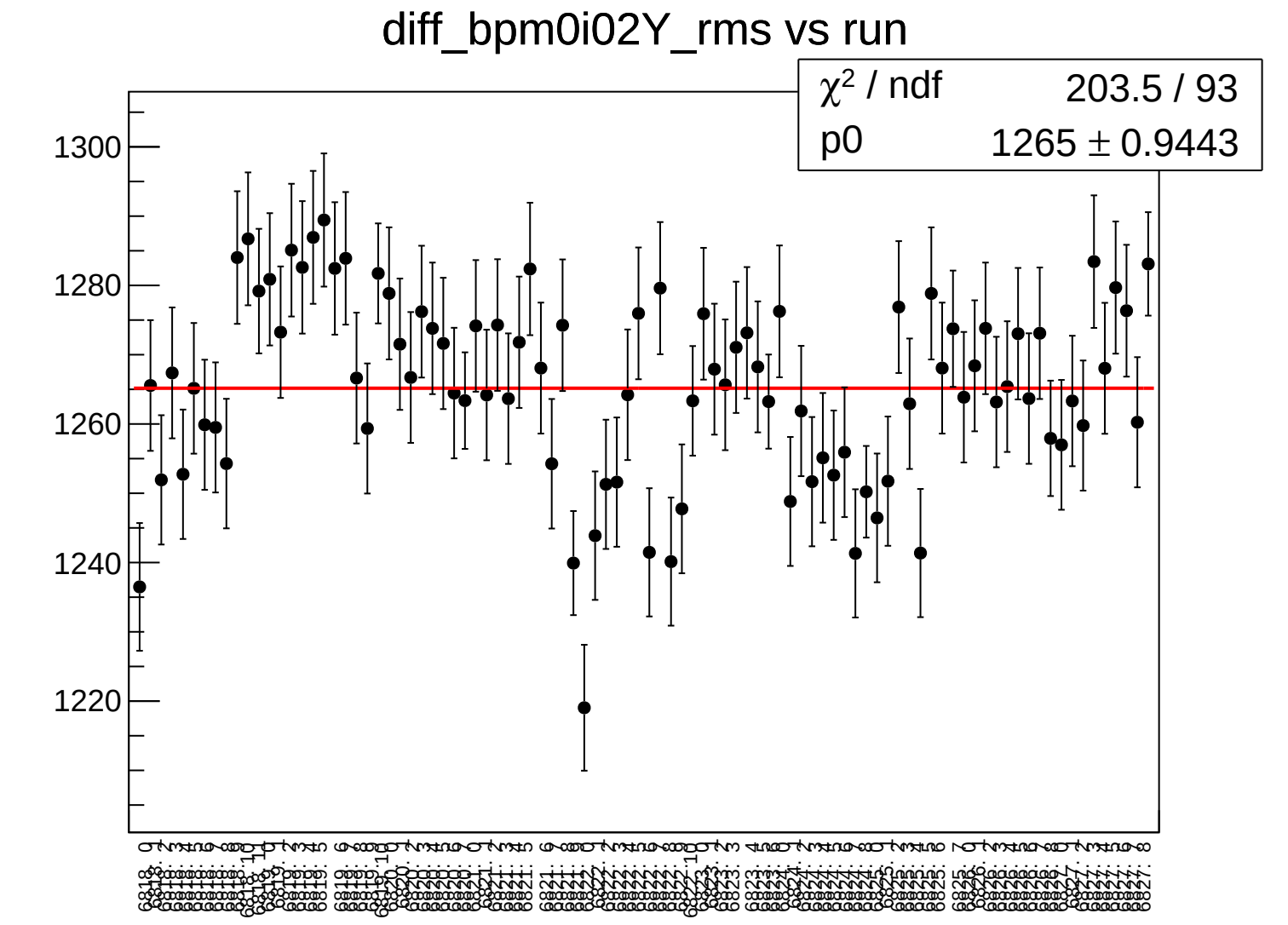

diff_bpm0i02X_mean vs run
χ^2 / ndf 110.4 / 93
p0 −43.06 ± 1.768
20
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean 181
Std Dev 0
3
2
1
0
−1
−2

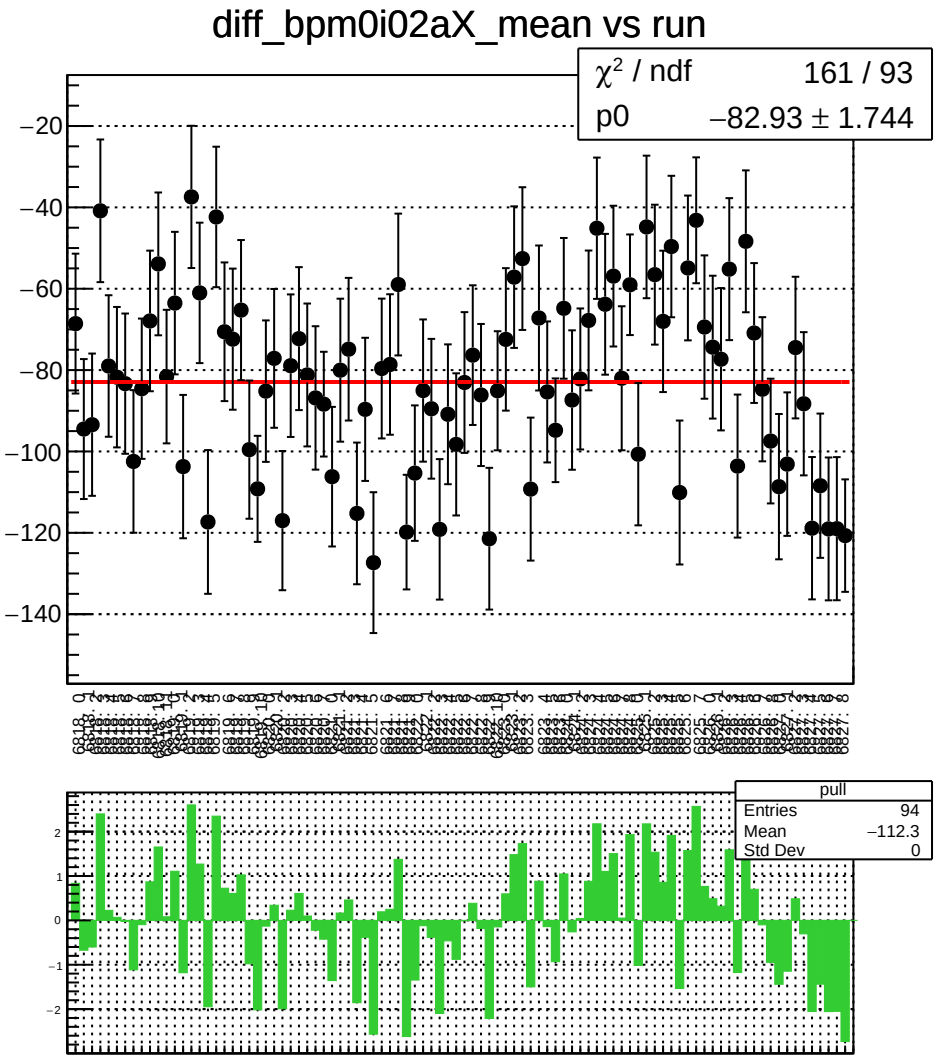

pull1D
Entries 94
Mean 0.004871
Std Dev 1.084
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

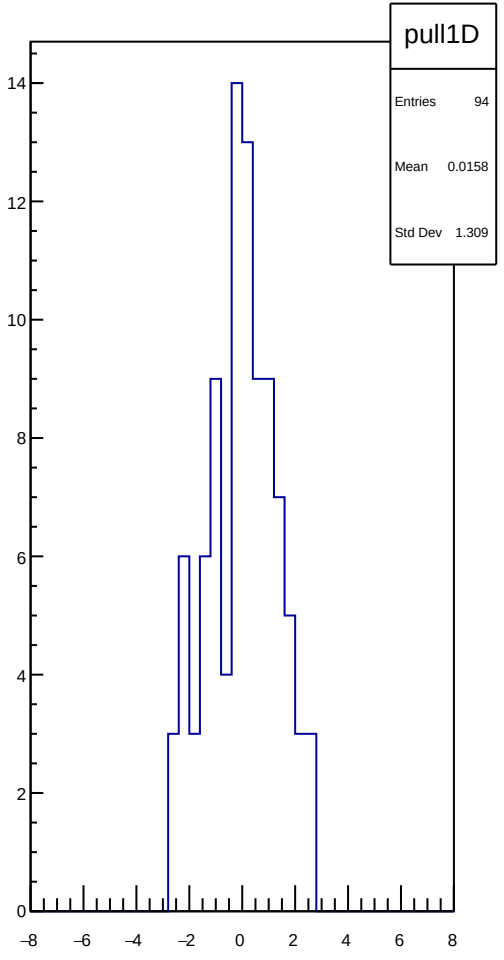

diff_bpm0i02X_rms vs run
χ² / ndf 360.1 / 93
p0 1675 ± 1.25
1750
1700
1650
1600
1550

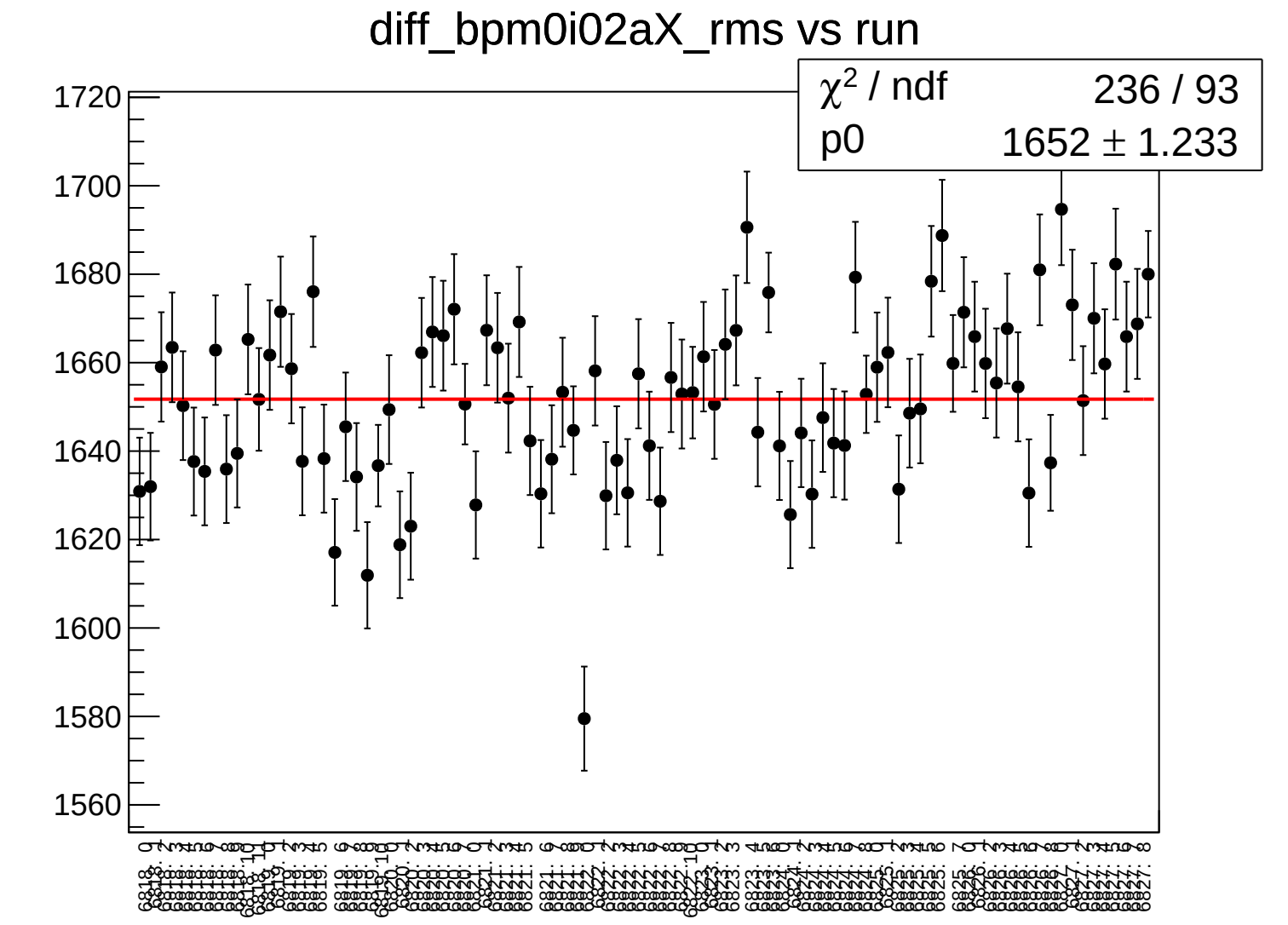

diff_bpm0i02Y_mean vs run
χ^2 / ndf 110.5 / 93
p0 27.09 ± 1.335
pull
Entries 94
Mean −2125
Std Dev 0

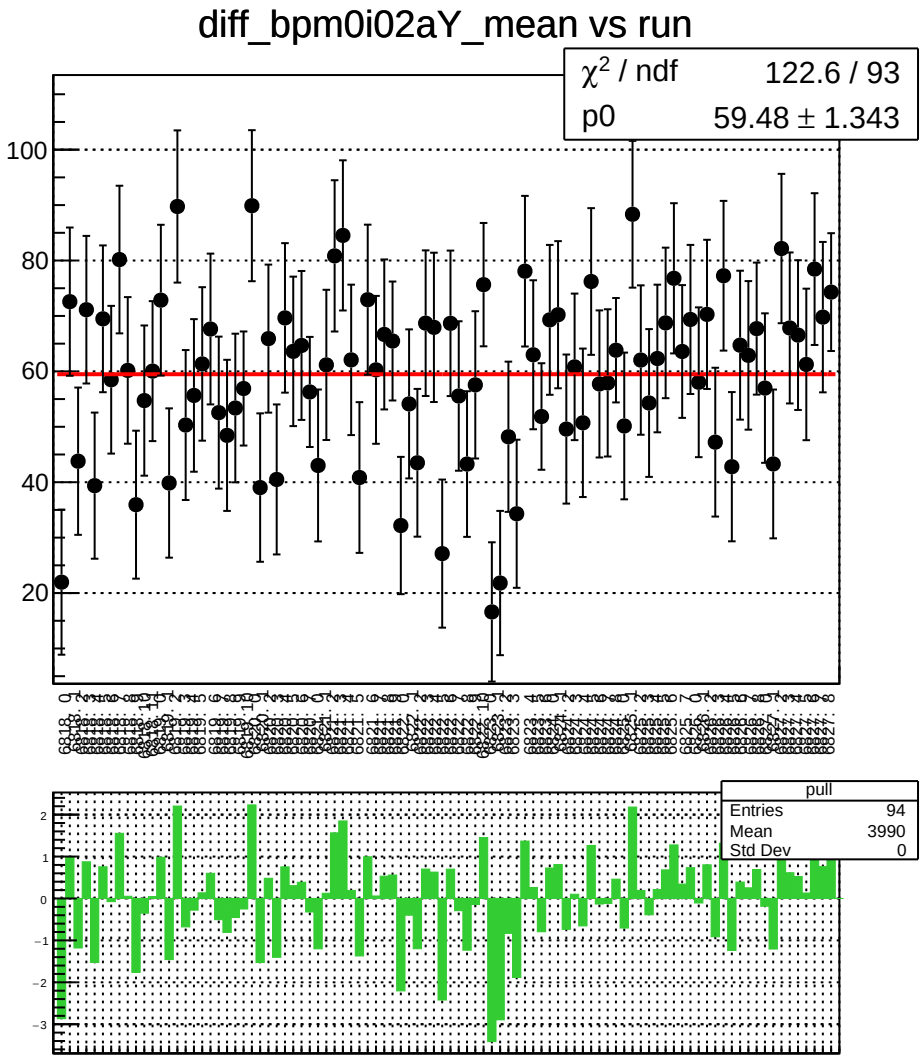

pull1D
Entries 94
Mean −0.002768
Std Dev 1.084

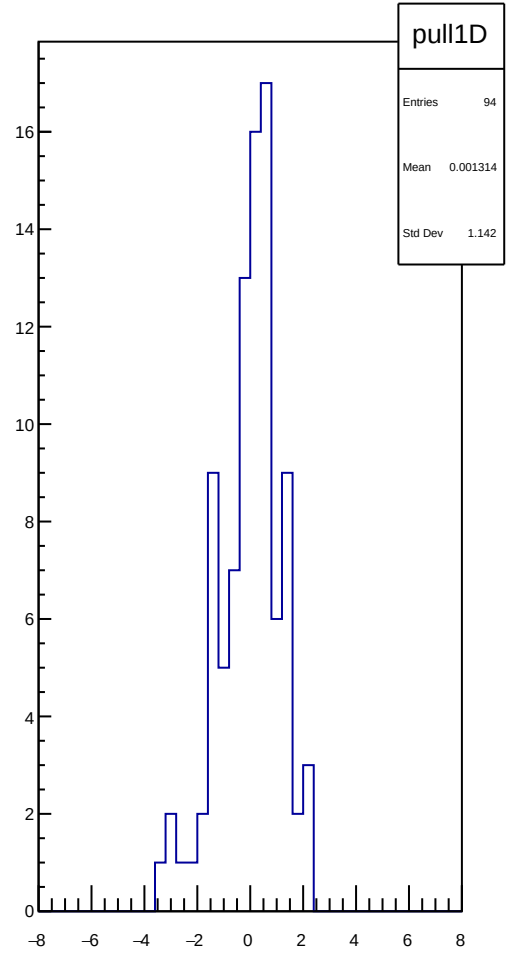

diff_bpm0i02Y_rms vs run
χ² / ndf 203.5 / 93
p0 1265 ± 0.9443
1300
1280
1260
1240
1220

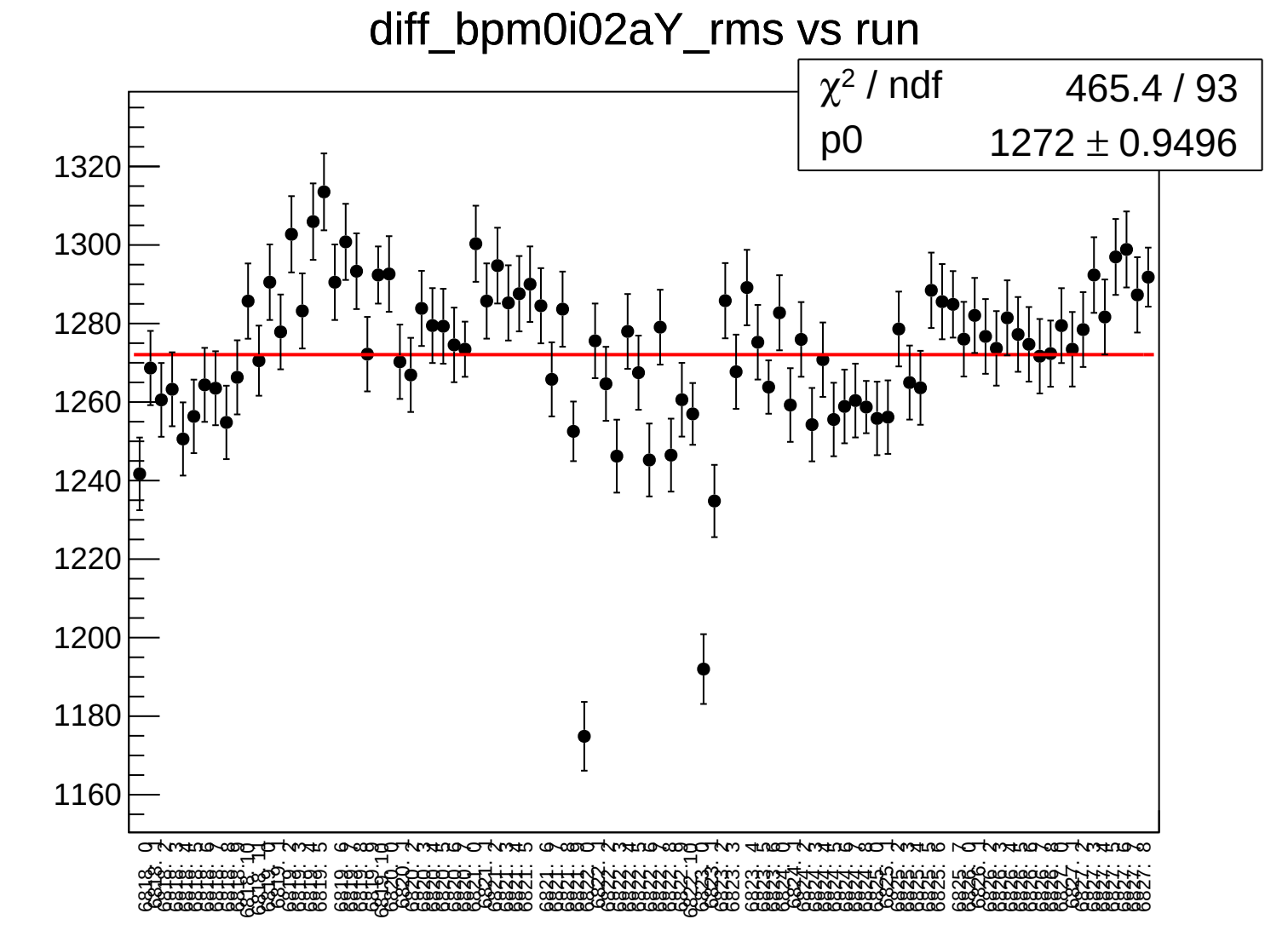

diff_bpm0i02aX_mean vs run
χ² / ndf 161 / 93
p0 −82.93 ± 1.744
−20
−40
−60
−80
−100
−120
−140
pull
Entries 94
Mean −112.3
Std Dev 0
2
1
0
−1
−2

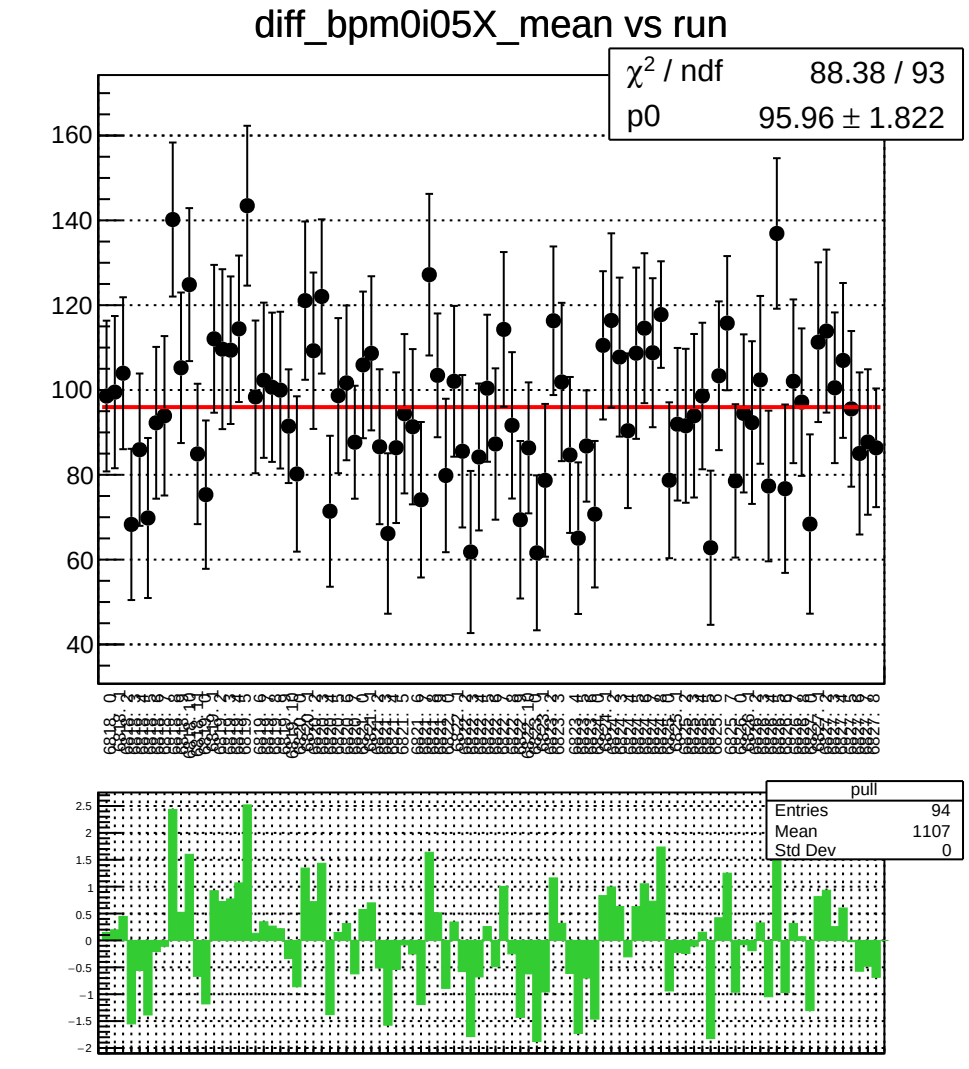

pull1D
Entries 94
Mean 0.0158
Std Dev 1.309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

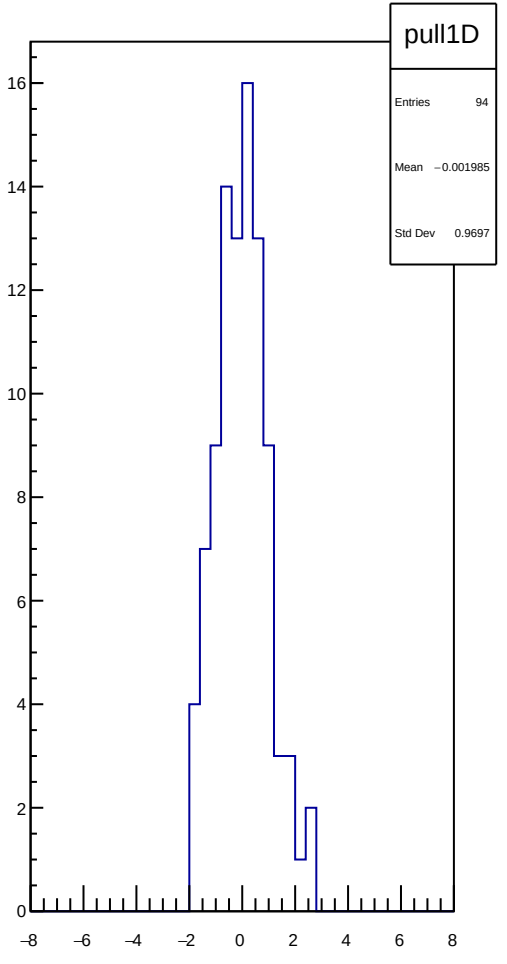

diff_bpm0i02aX_rms vs run
χ² / ndf 236 / 93
p0 1652 ± 1.233
1720
1700
1680
1660
1640
1620
1600
1580
1560

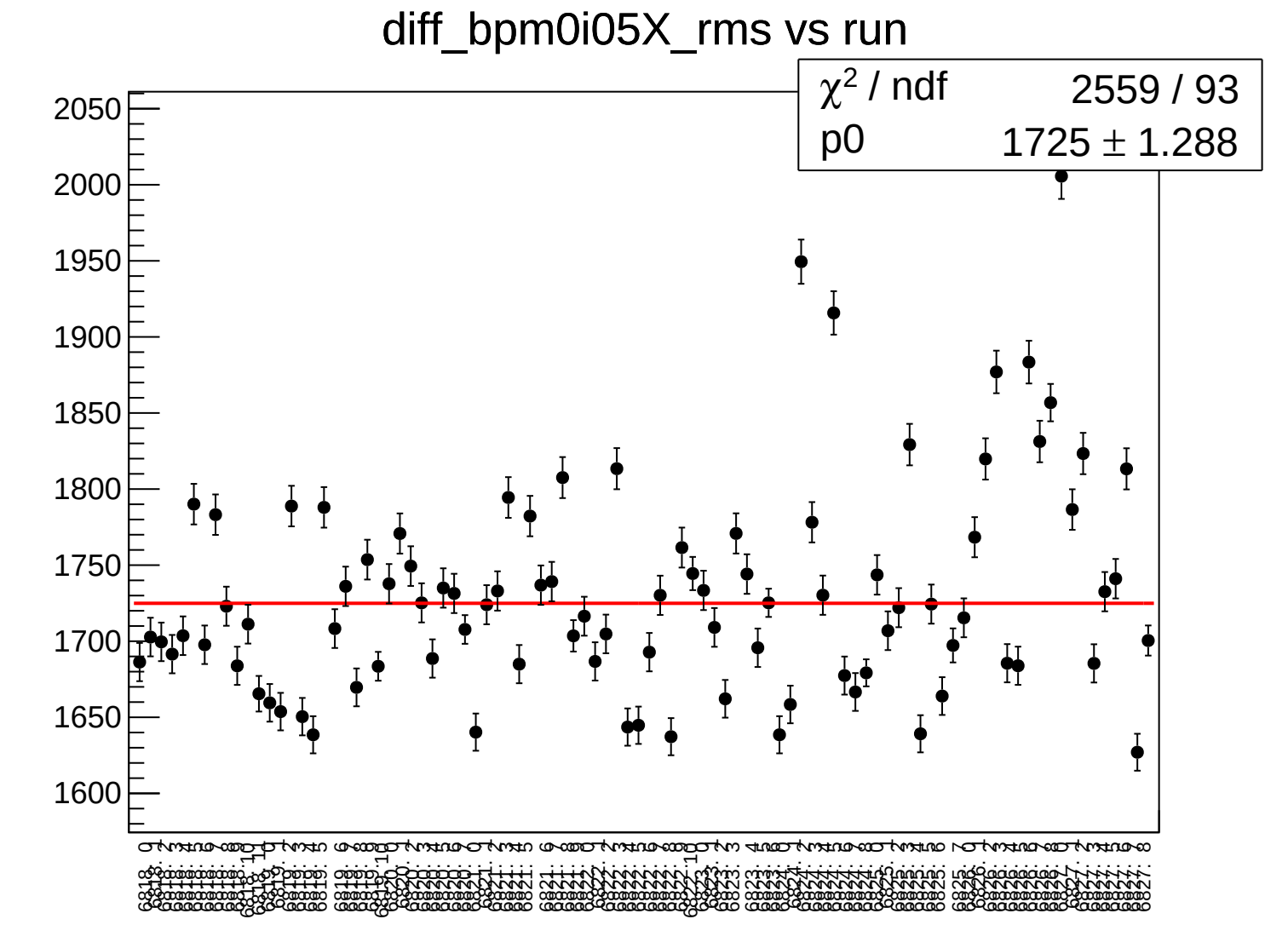

diff_bpm0i02aY_mean vs run
χ^2 / ndf 122.6 / 93
p0 59.48 ± 1.343
pull
Entries 94
Mean 3990
Std Dev 0

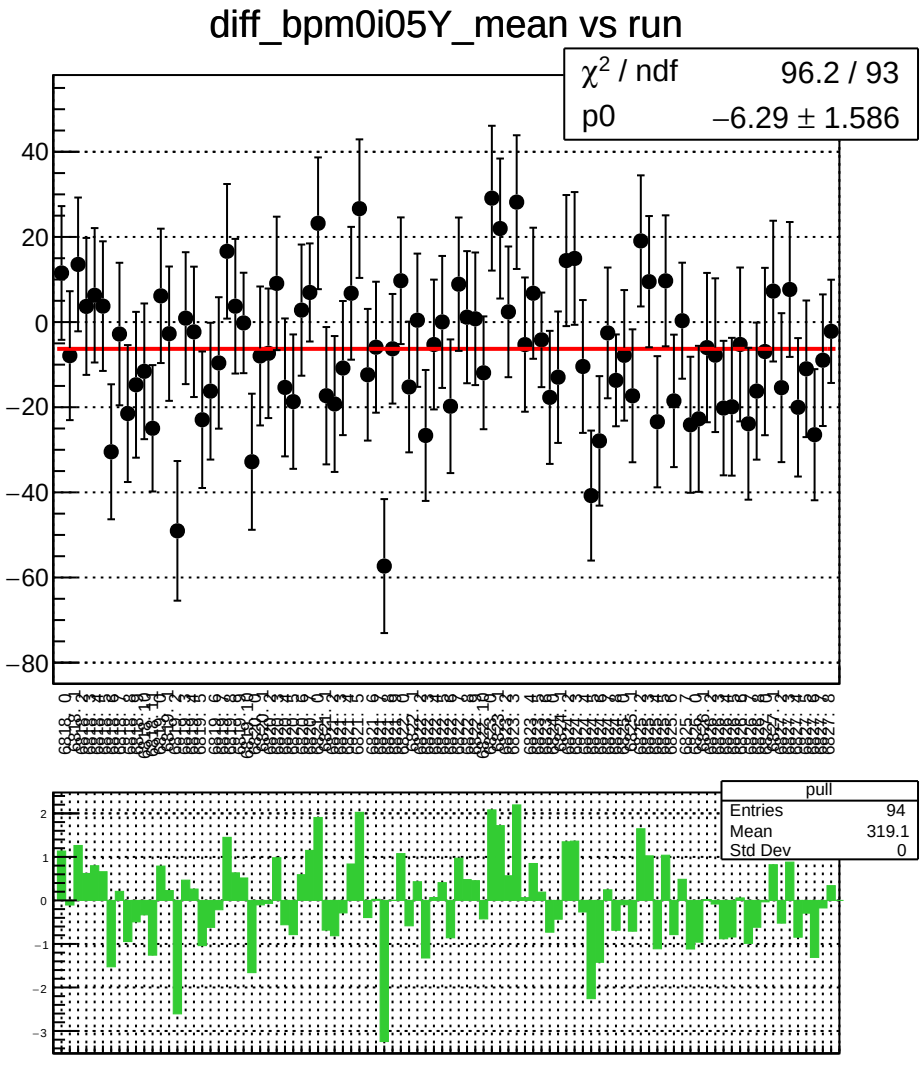

pull1D
Entries 94
Mean 0.001314
Std Dev 1.142

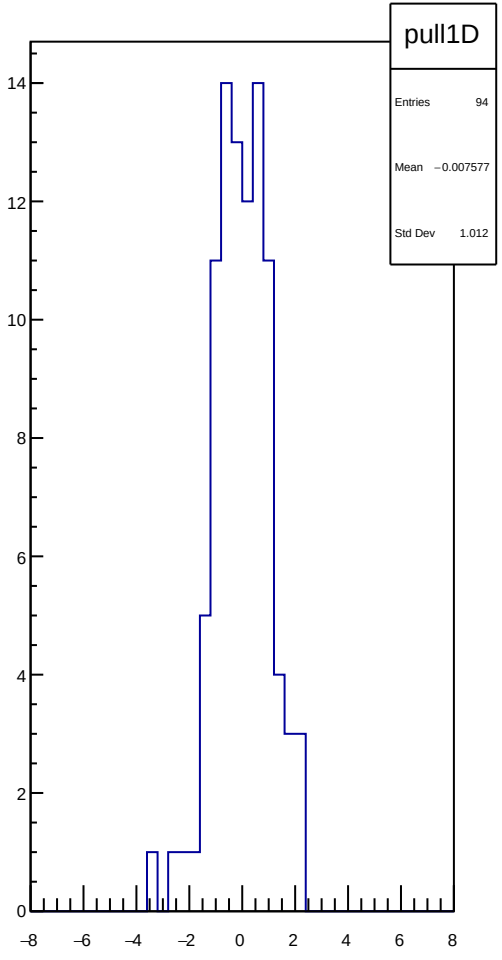

diff_bpm0i02aY_rms vs run
χ² / ndf 465.4 / 93
p0 1272 ± 0.9496
1320
1300
1280
1260
1240
1220
1200
1180
1160

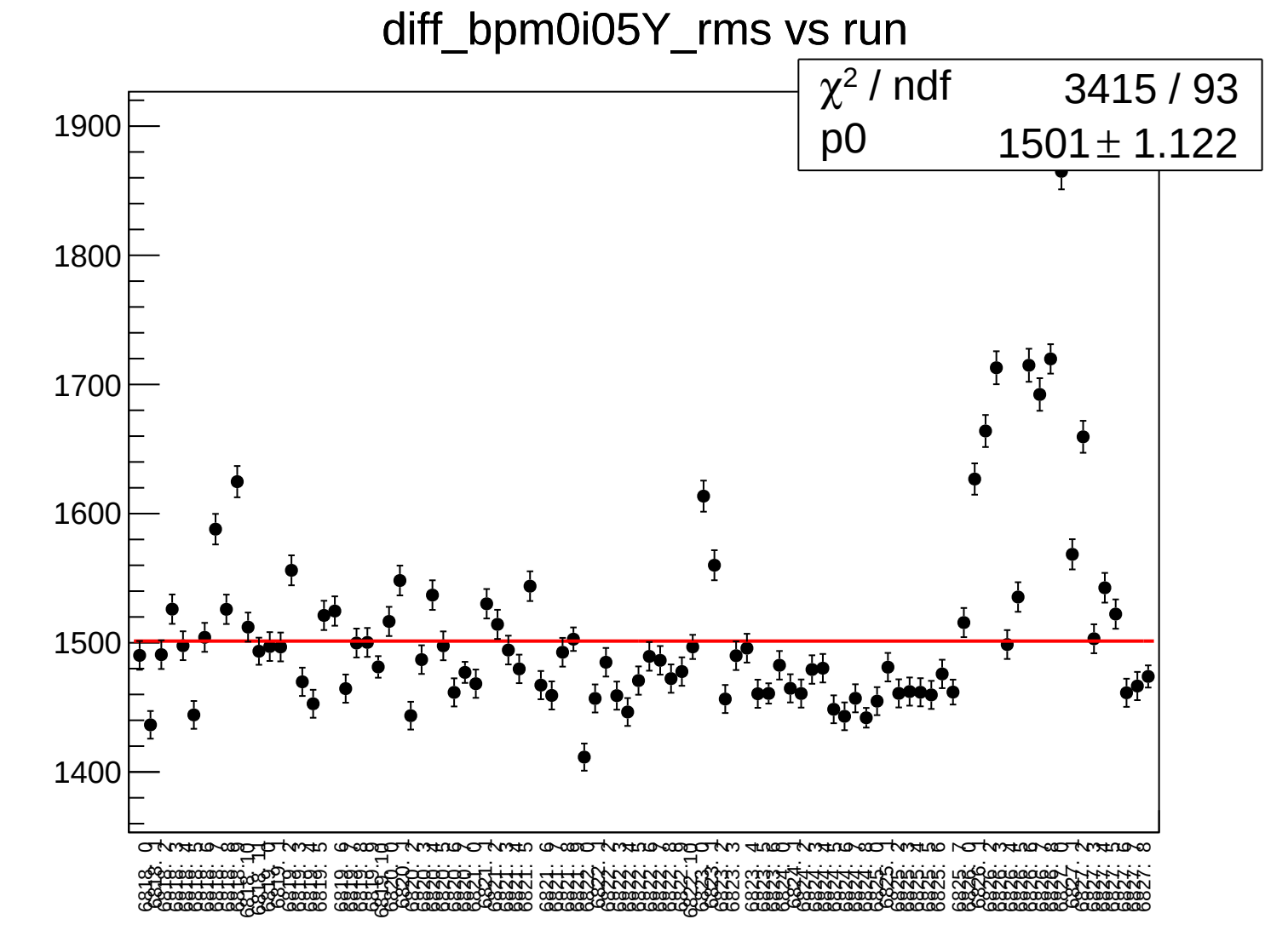

diff_bpm0i05X_mean vs run
χ² / ndf 88.38 / 93
p0 95.96 ± 1.822
160
140
120
100
80
60
40
pull
Entries 94
Mean 1107
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

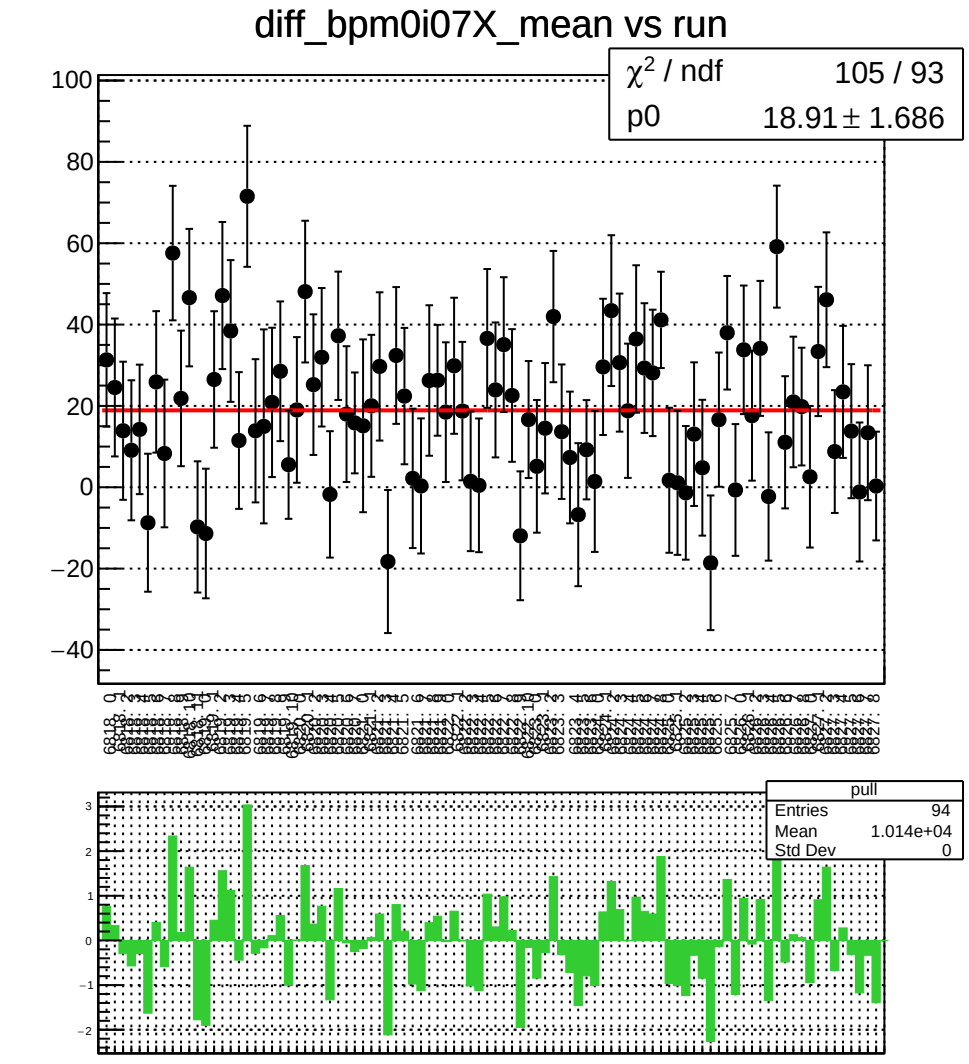

pull1D
Entries 94
Mean −0.001985
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

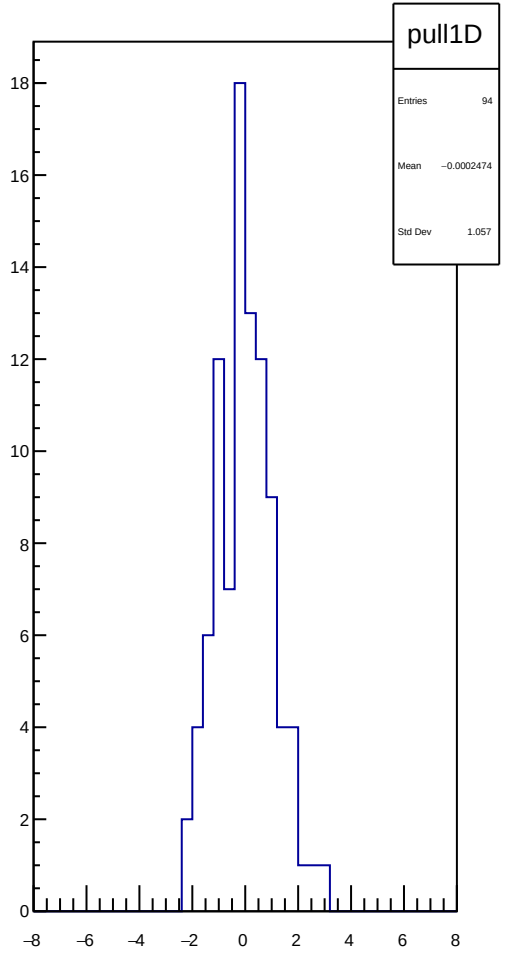

diff_bpm0i05X_rms vs run
χ² / ndf 2559 / 93
p0 1725 ± 1.288
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

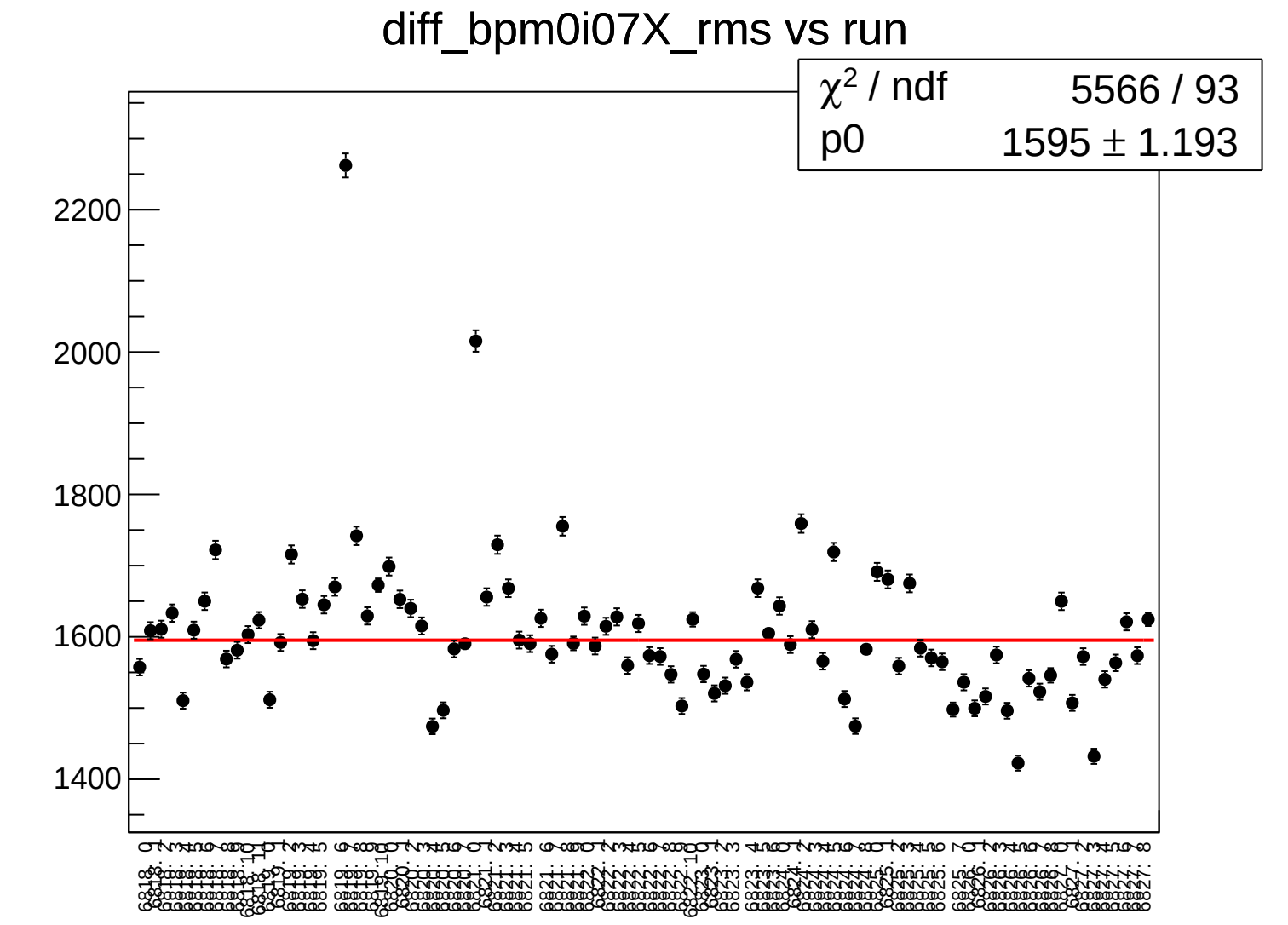

diff_bpm0i05Y_mean vs run
χ² / ndf 96.2 / 93
p0 −6.29 ± 1.586
pull
Entries 94
Mean 319.1
Std Dev 0

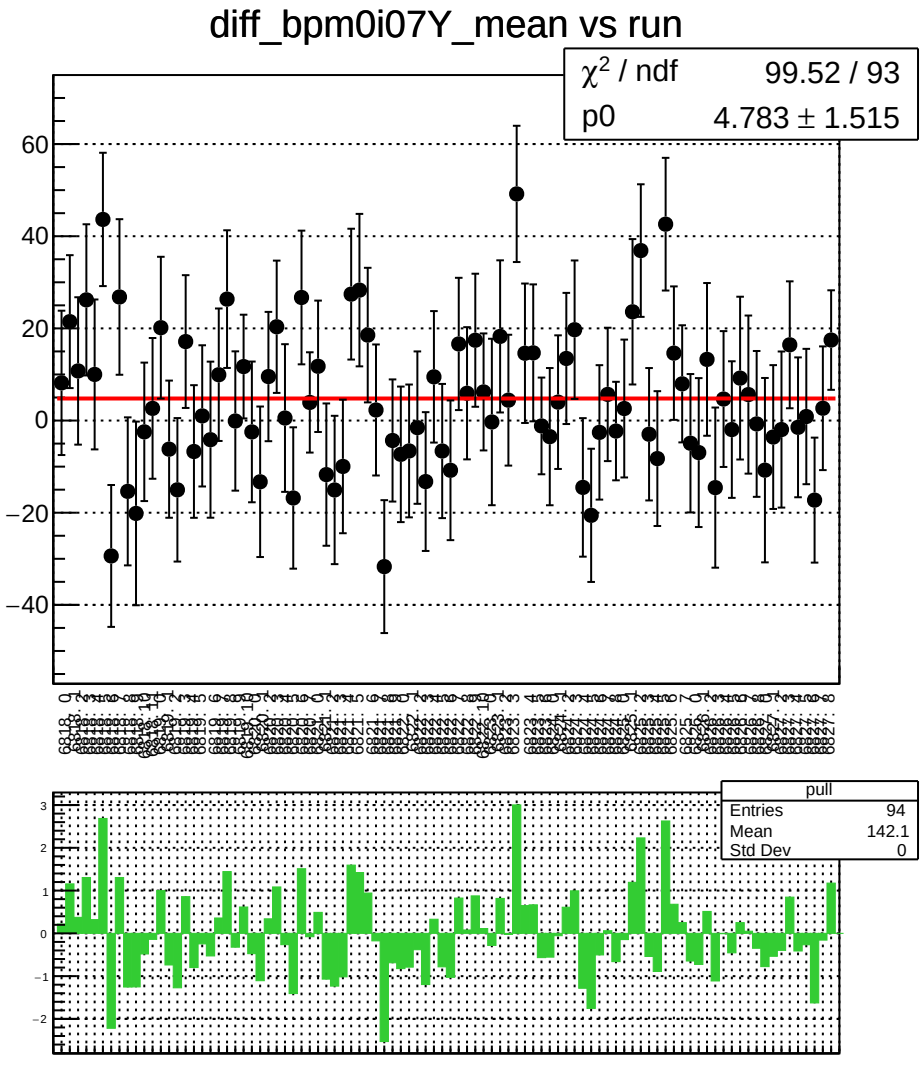

pull1D
Entries 94
Mean −0.007577
Std Dev 1.012

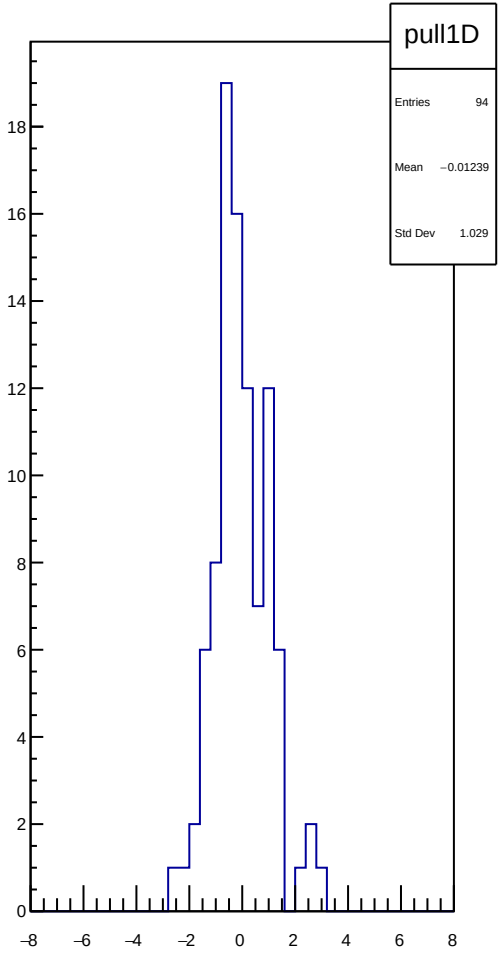

diff_bpm0i05Y_rms vs run
χ² / ndf 3415 / 93
p0 1501 ± 1.122
1900
1800
1700
1600
1500
1400

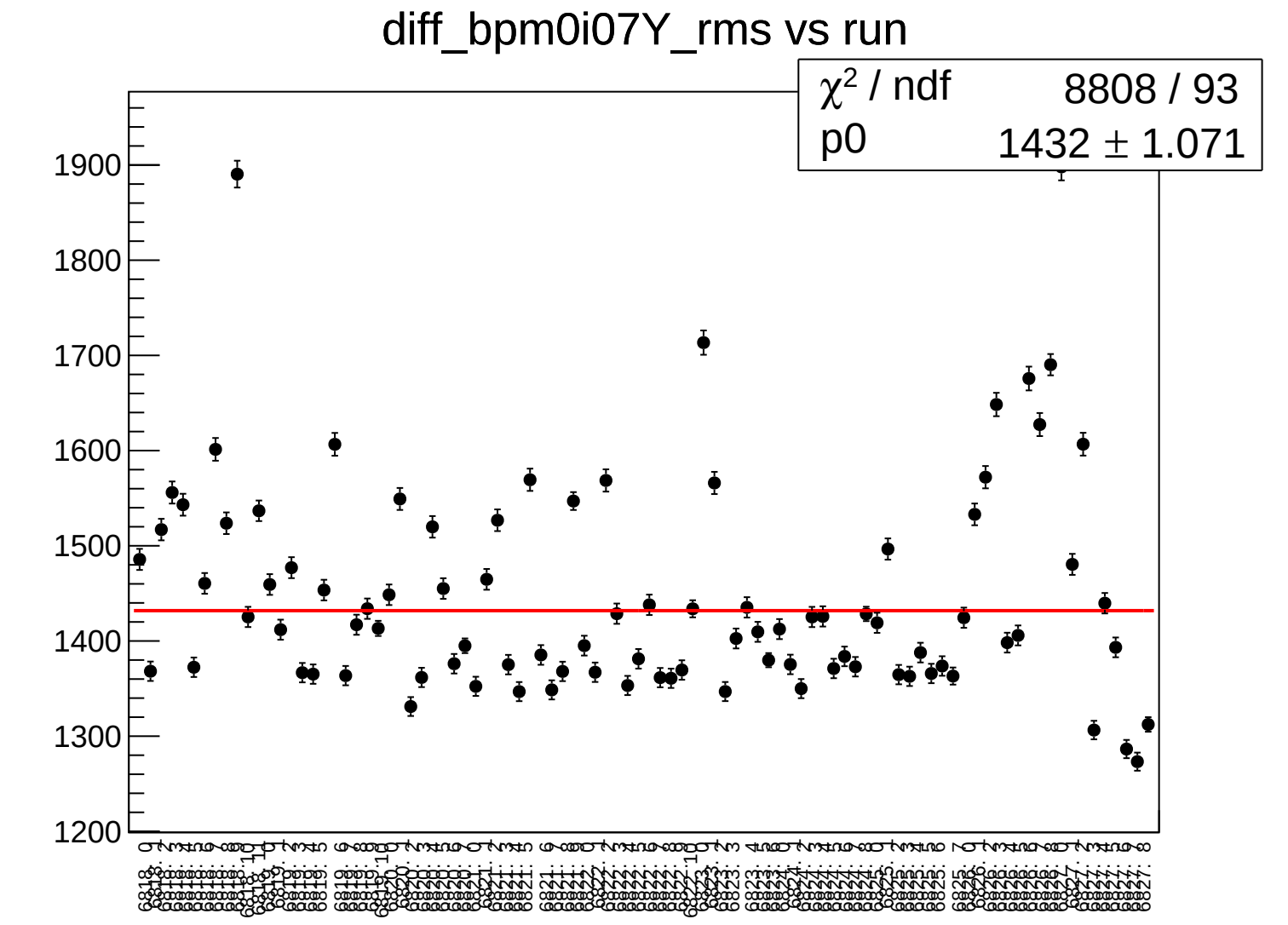

diff_bpm0i07X_mean vs run
χ² / ndf 105 / 93
p0 18.91 ± 1.686
pull
Entries 94
Mean 1.014e+04
Std Dev 0

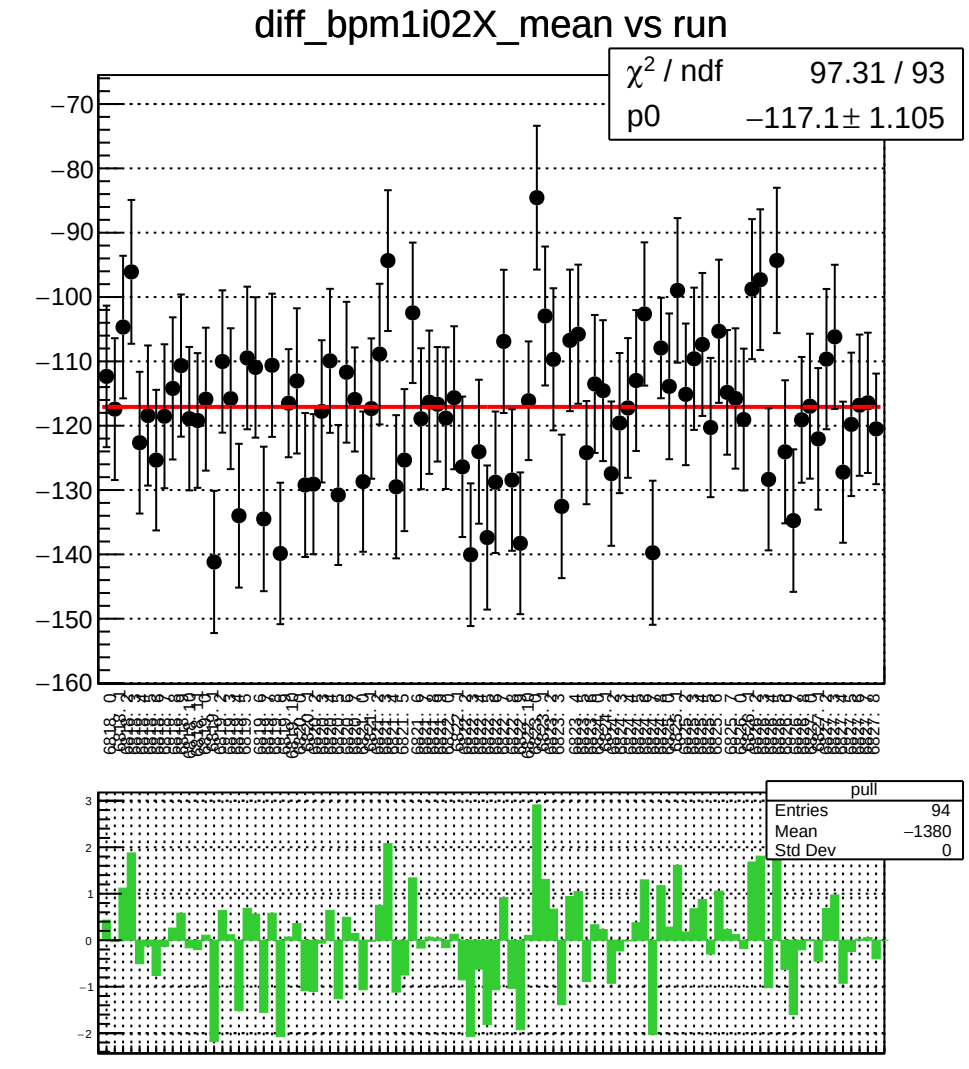

pull1D
Entries 94
Mean −0.0002474
Std Dev 1.057

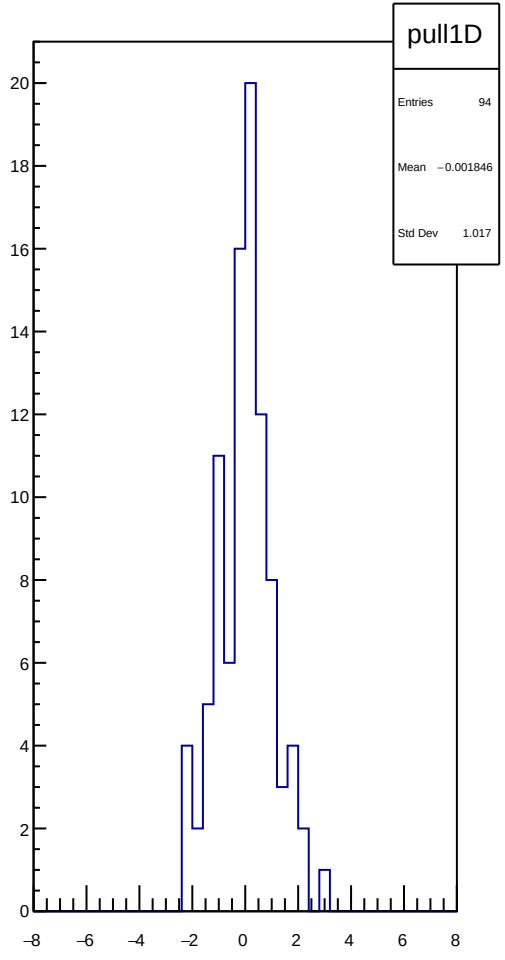

diff_bpm0i07X_rms vs run
χ^2 / ndf 5566 / 93
p0 1595 ± 1.193
2200
2000
1800
1600
1400

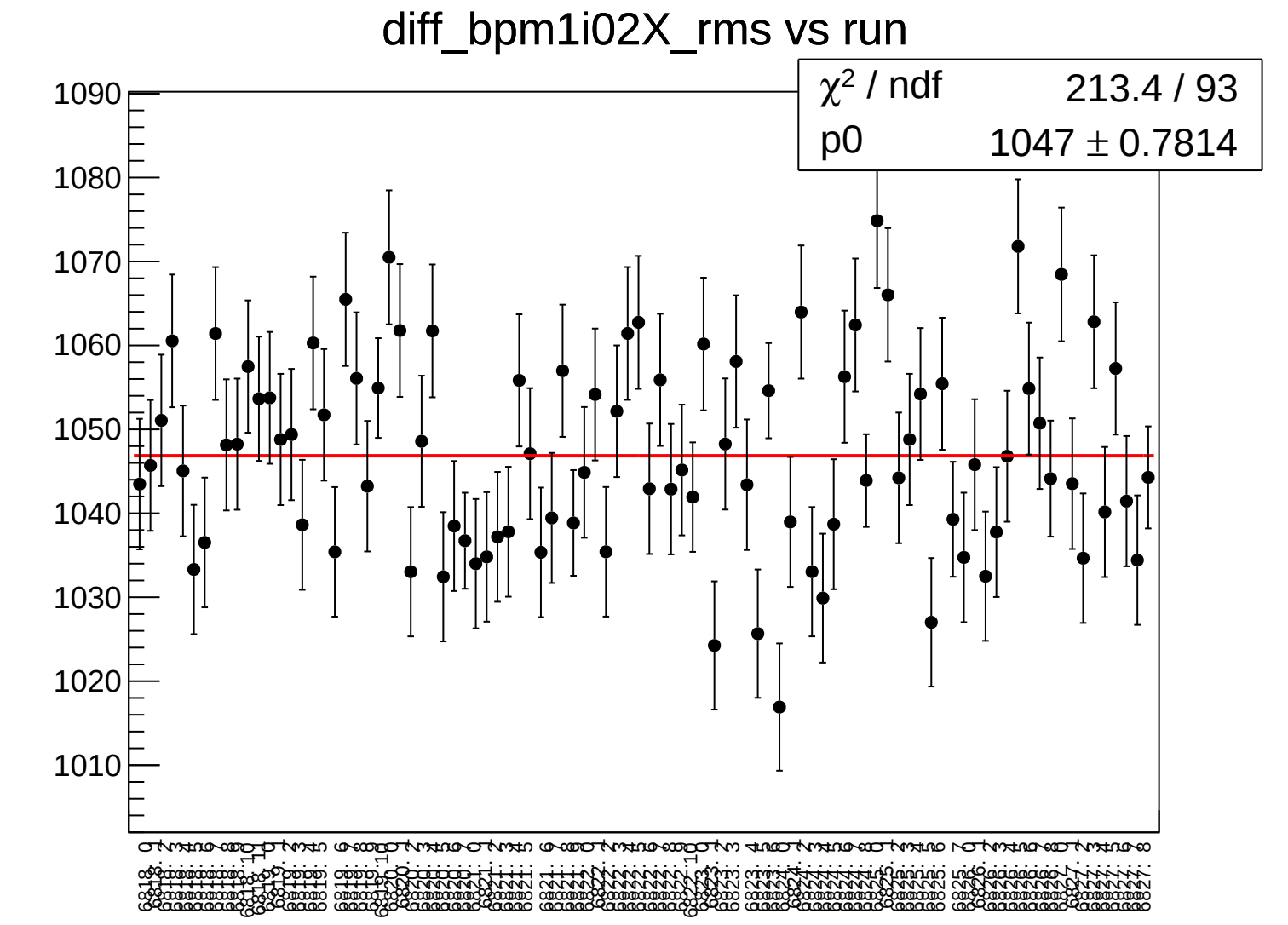

diff_bpm0i07Y_mean vs run
χ² / ndf 99.52 / 93
p0 4.783 ± 1.515
pull
Entries 94
Mean 142.1
Std Dev 0

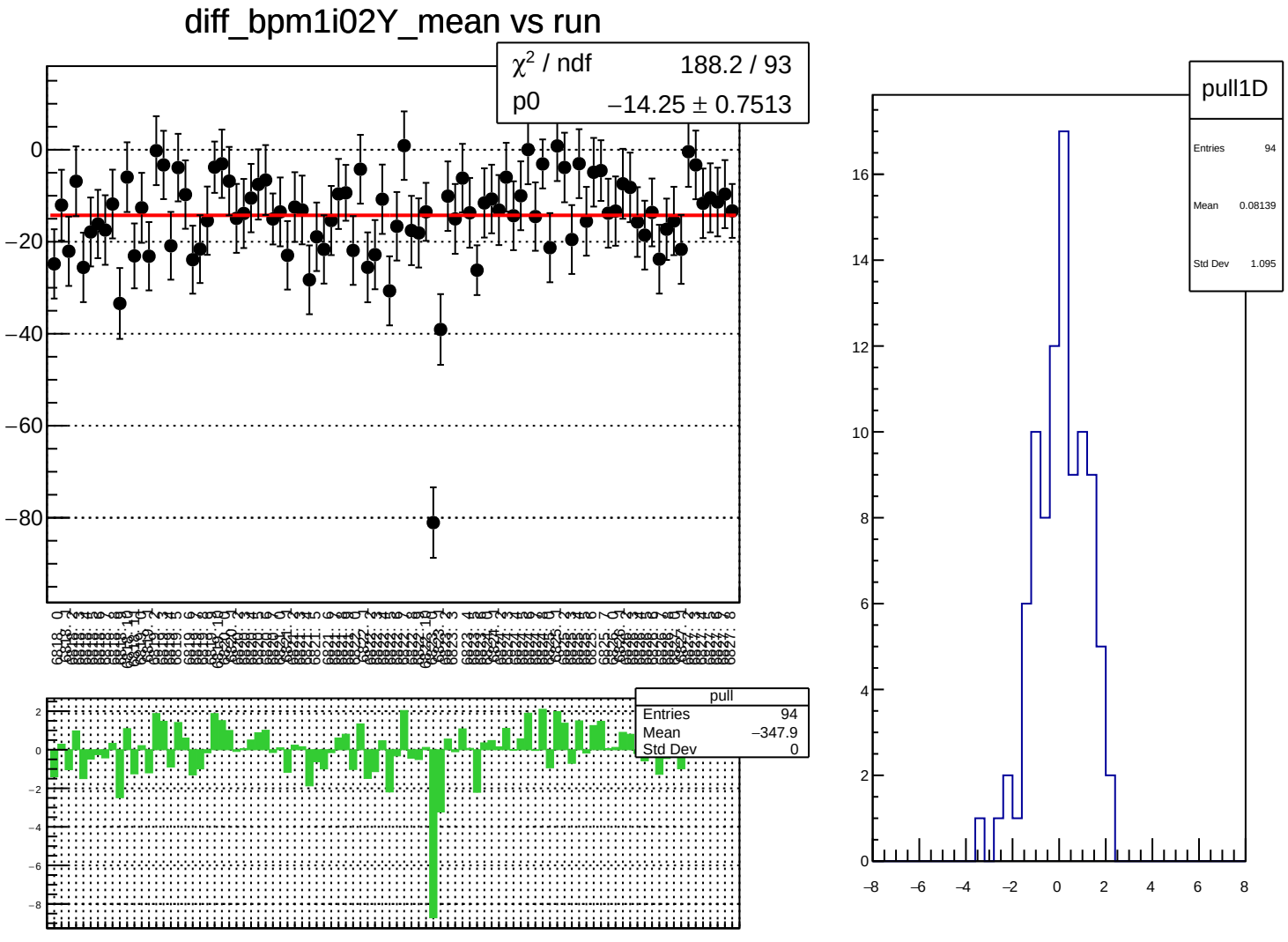

pull1D
Entries 94
Mean −0.01239
Std Dev 1.029

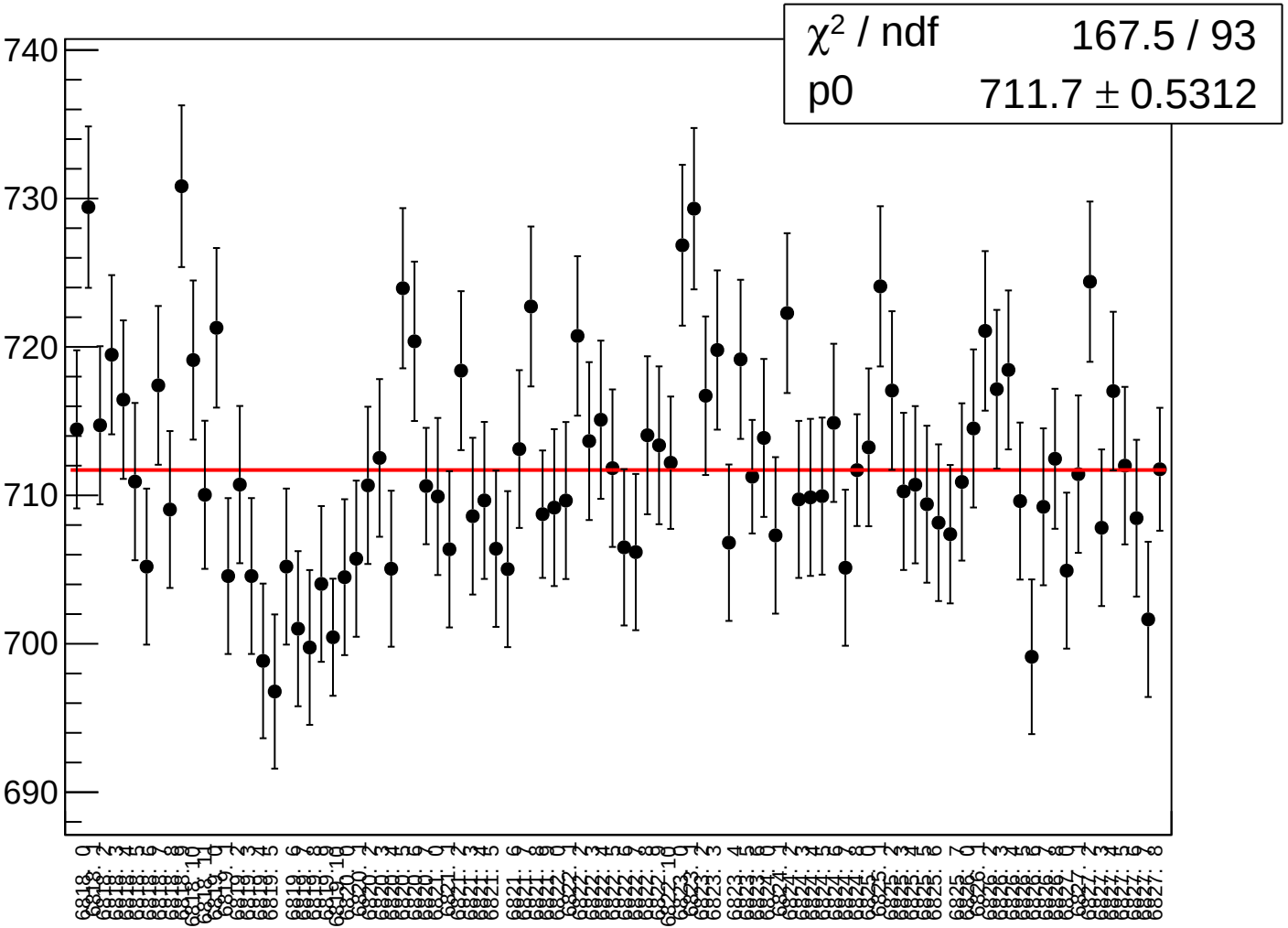

diff_bpm0i07Y_rms vs run
χ² / ndf 8808 / 93
p0 1432 ± 1.071
1900
1800
1700
1600
1500
1400
1300
1200

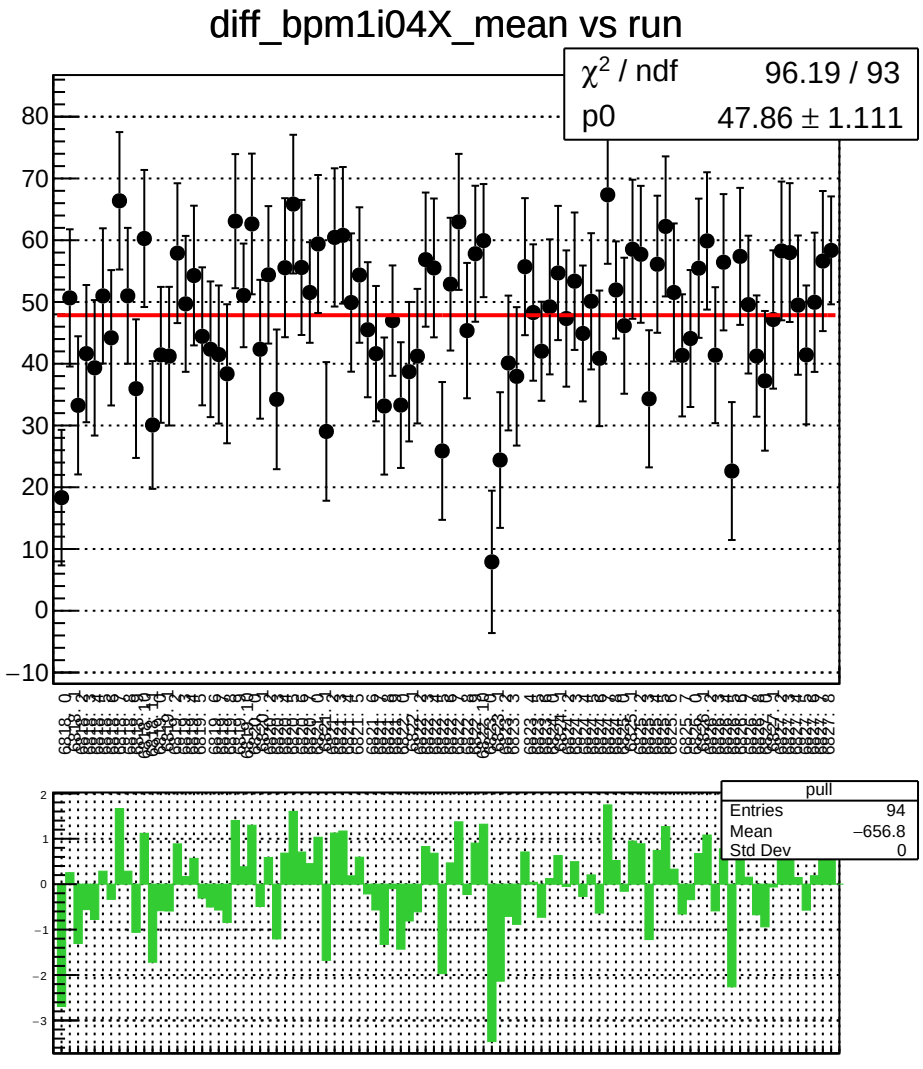

diff_bpm1i02X_mean vs run
χ^2 / ndf 97.31 / 93
p0 −117.1± 1.105
pull
Entries 94
Mean −1380
Std Dev 0

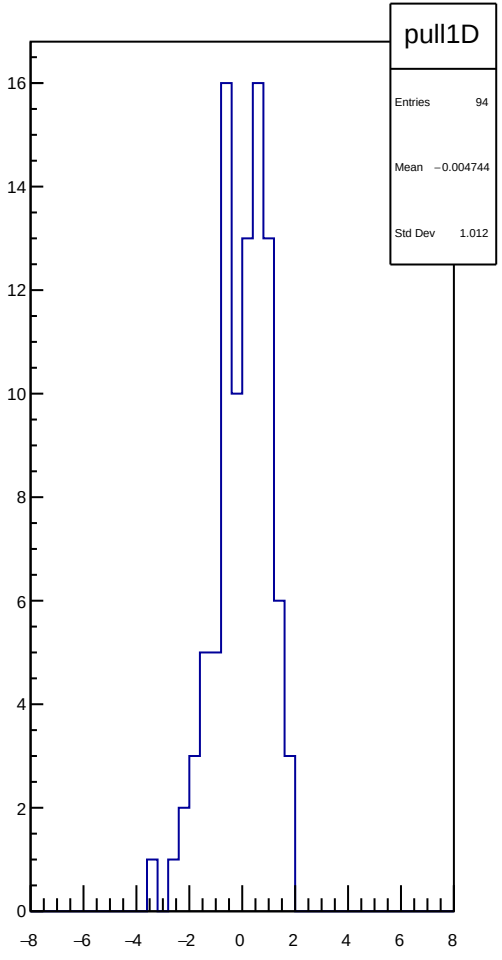

pull1D
Entries 94
Mean −0.001846
Std Dev 1.017

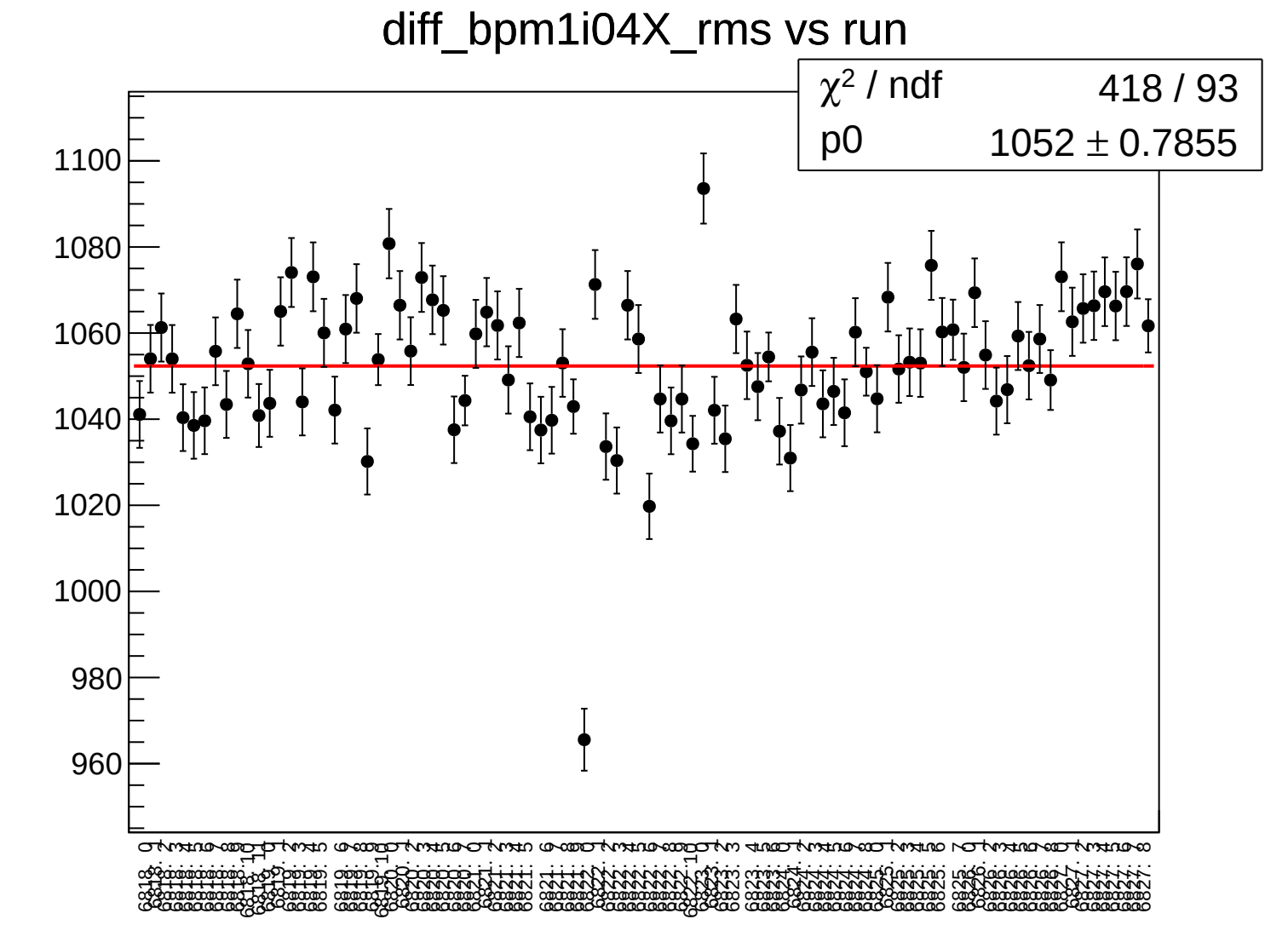

diff_bpm1i02X_rms vs run
χ² / ndf 213.4 / 93
p0 1047 ± 0.7814
1090
1080
1070
1060
1050
1040
1030
1020
1010

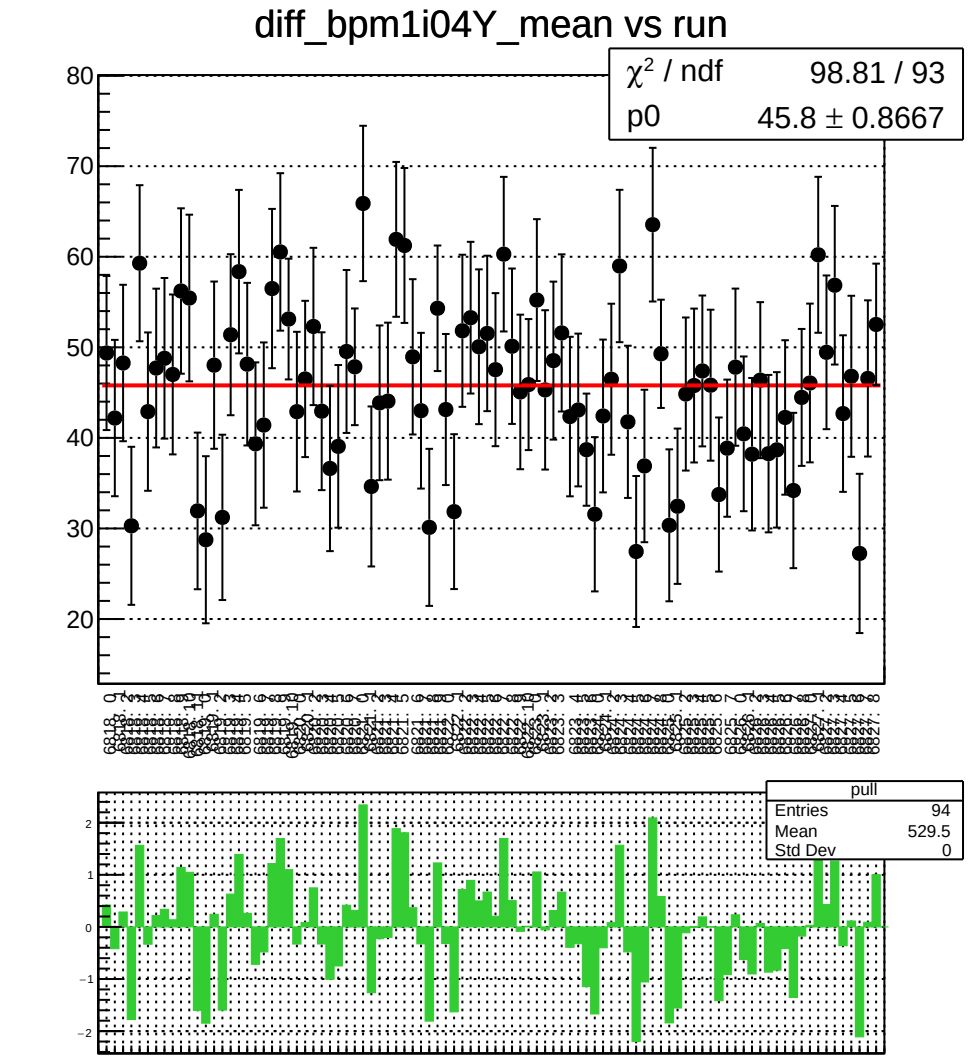

diff_bpm1i02Y_mean vs run
χ² / ndf 188.2 / 93
p0 −14.25 ± 0.7513
0
−20
−40
−60
−80
pull
Entries 94
Mean −347.9
Std Dev 0
2
0
−2
−4
−6
−8
pull1D
Entries 94
Mean 0.08139
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

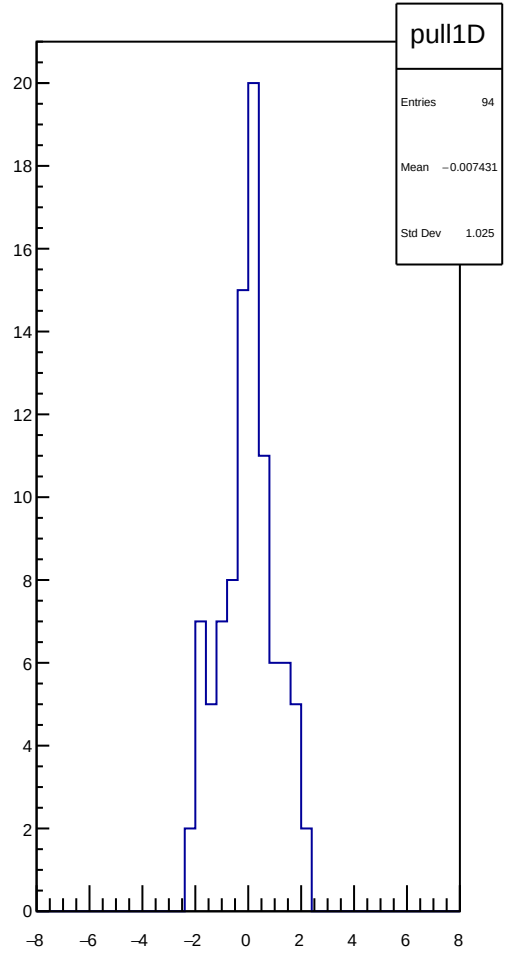

diff_bpm1i02Y_rms vs run
χ² / ndf 167.5 / 93
p0 711.7 ± 0.5312
740
730
720
710
700
690

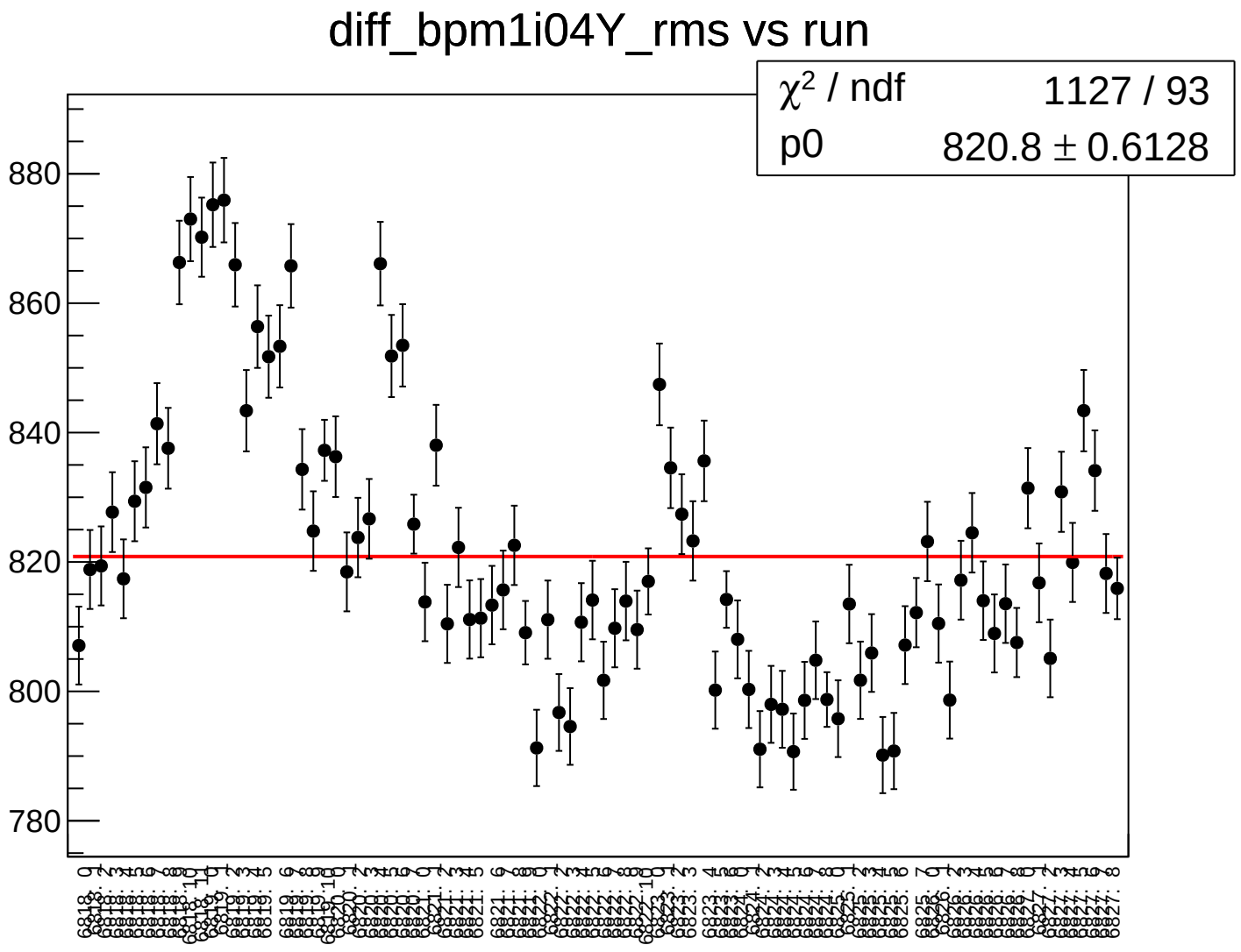

diff_bpm1i04X_mean vs run
χ^2 / ndf 96.19 / 93
p0 47.86 ± 1.111
pull
Entries 94
Mean −656.8
Std Dev 0

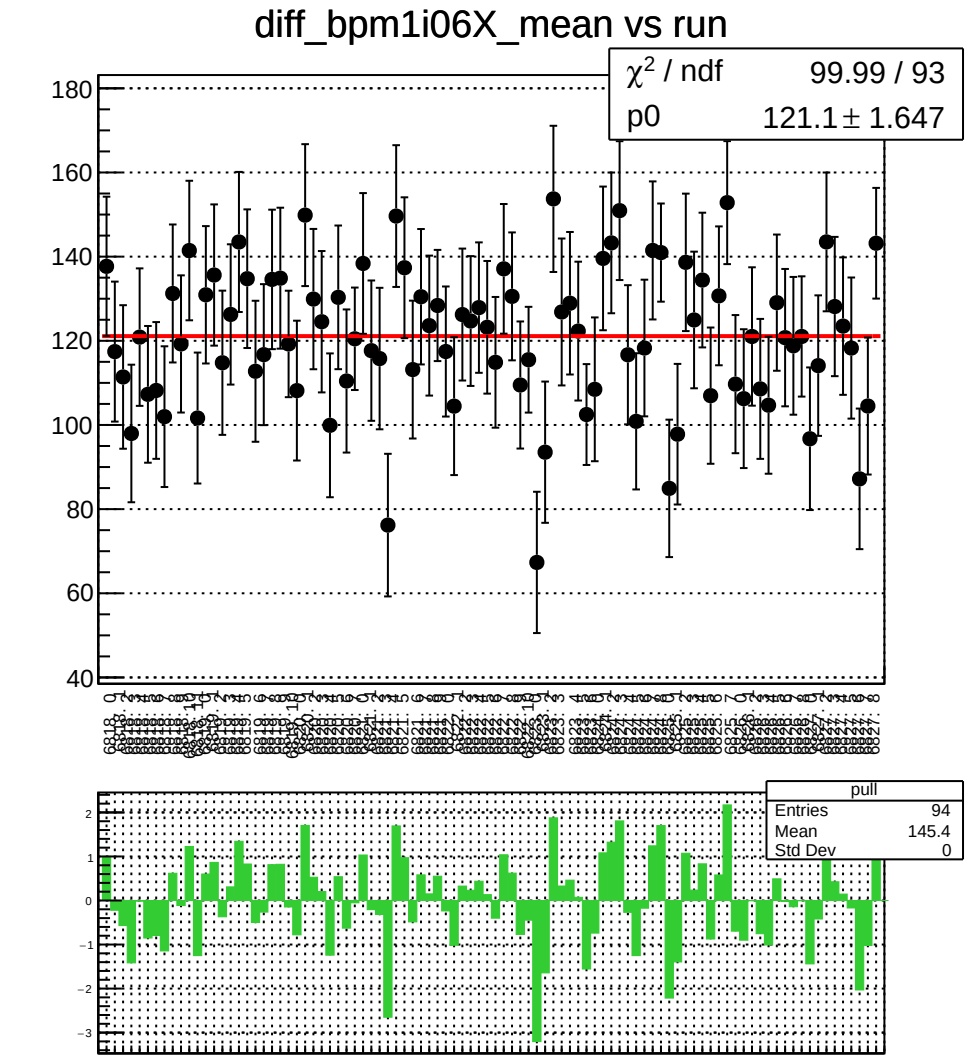

pull1D
Entries 94
Mean −0.004744
Std Dev 1.012

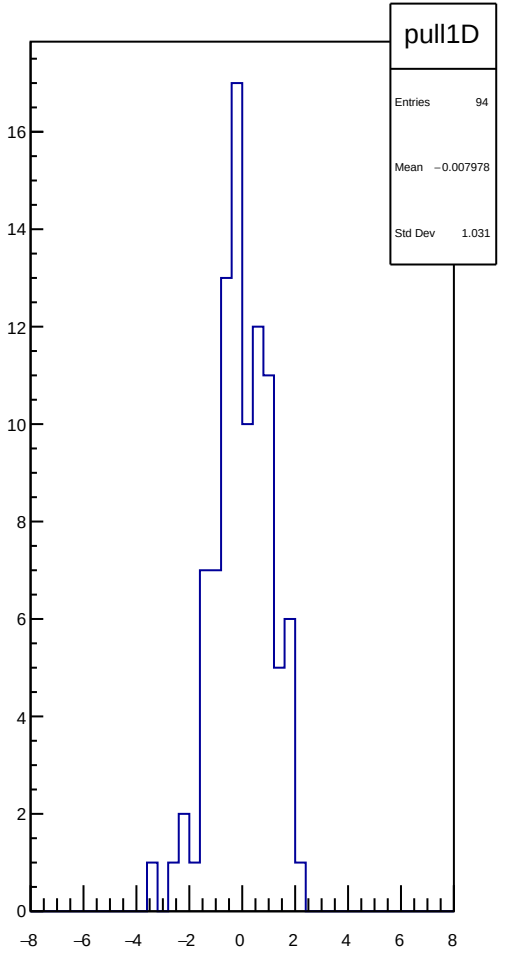

diff_bpm1i04X_rms vs run
χ² / ndf 418 / 93
p0 1052 ± 0.7855
1100
1080
1060
1040
1020
1000
980
960

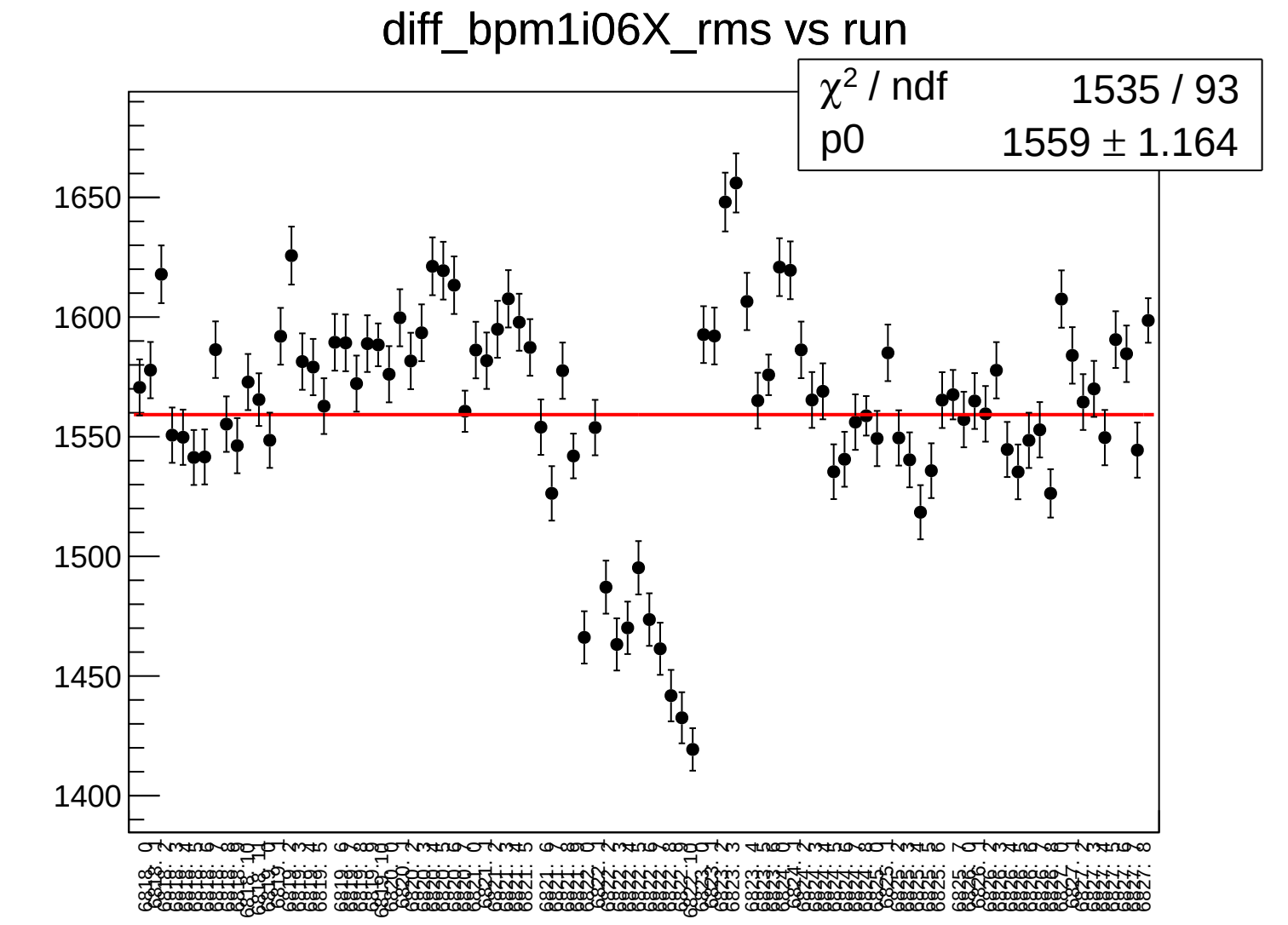

diff_bpm1i04Y_mean vs run
χ² / ndf 98.81 / 93
p0 45.8 ± 0.8667
pull
Entries 94
Mean 529.5
Std Dev 0

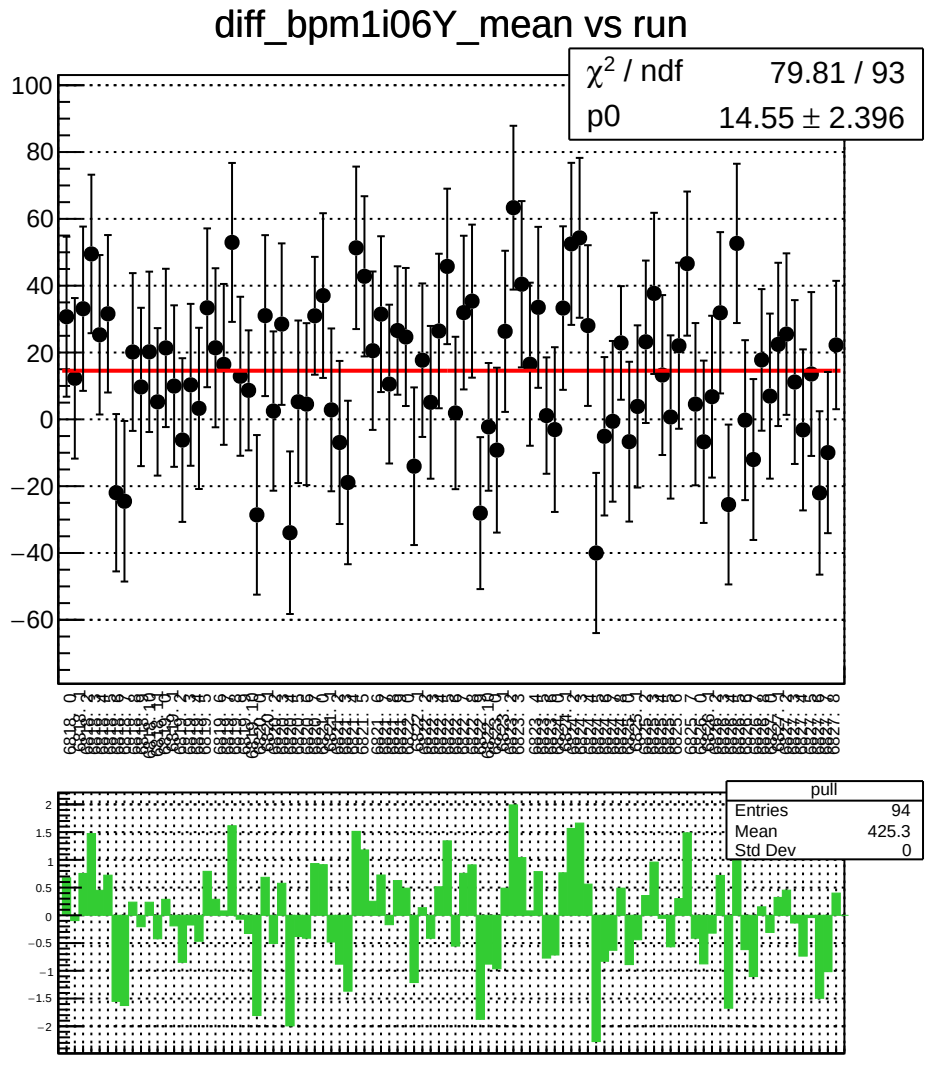

pull1D
Entries 94
Mean −0.007431
Std Dev 1.025

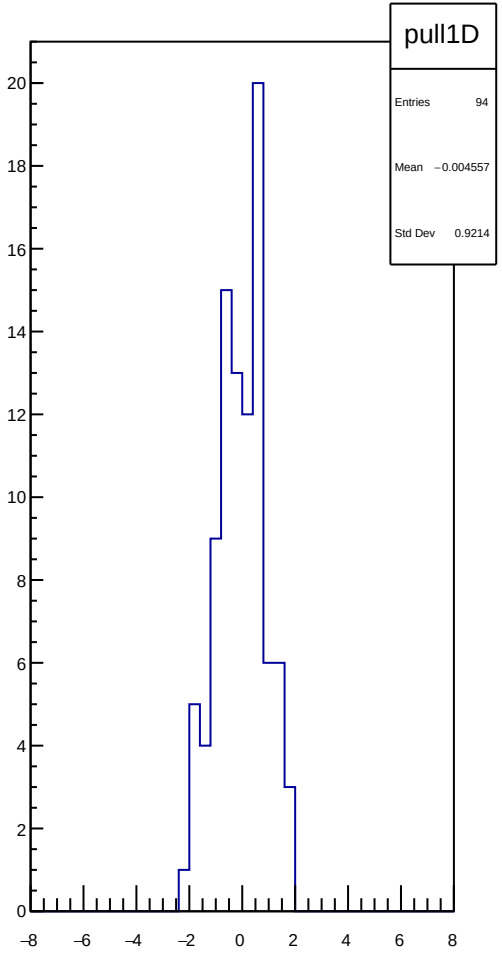

diff_bpm1i04Y_rms vs run
χ² / ndf 1127 / 93
p0 820.8 ± 0.6128
880
860
840
820
800
780

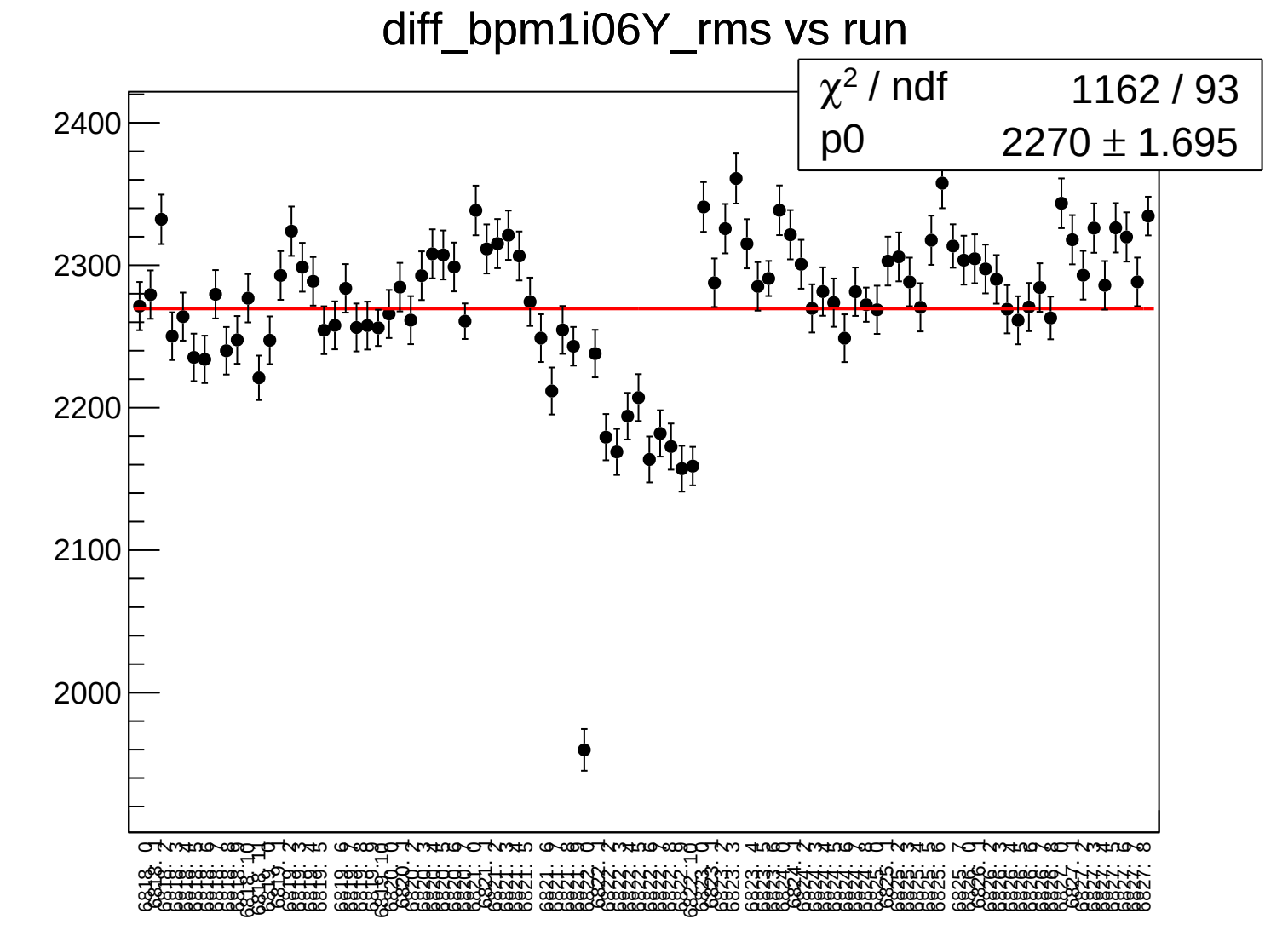

diff_bpm1i06X_mean vs run
χ² / ndf 99.99 / 93
p0 121.1 ± 1.647
pull
Entries 94
Mean 145.4
Std Dev 0

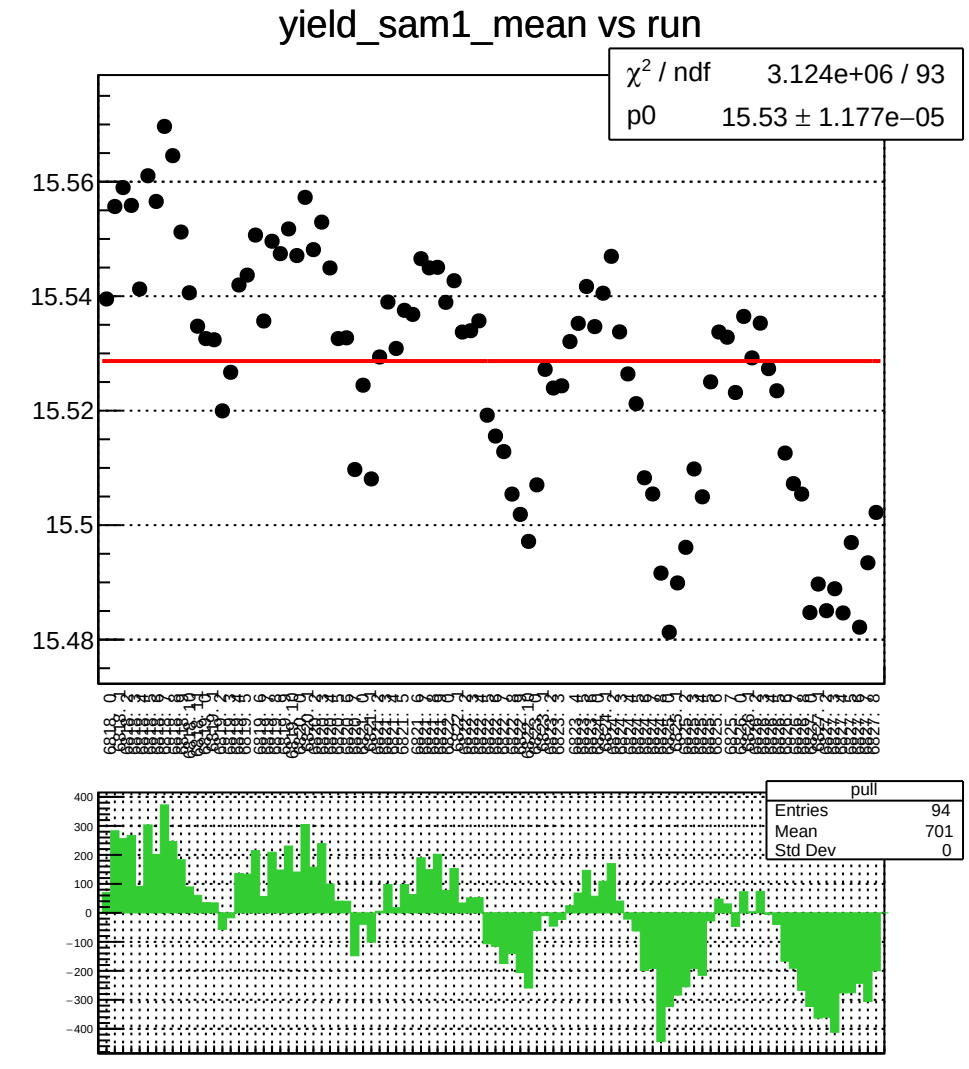

pull1D
Entries 94
Mean −0.007978
Std Dev 1.031

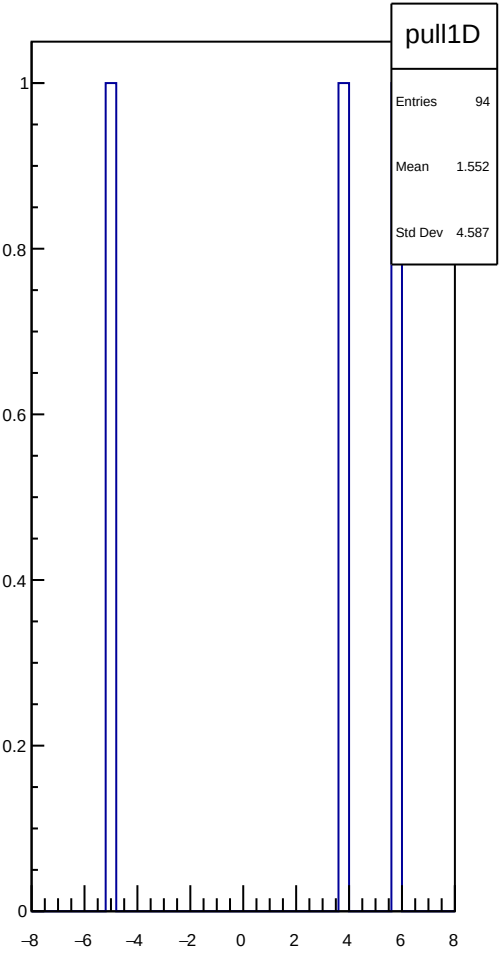

diff_bpm1i06X_rms vs run
χ² / ndf 1535 / 93
p0 1559 ± 1.164
1650
1600
1550
1500
1450
1400

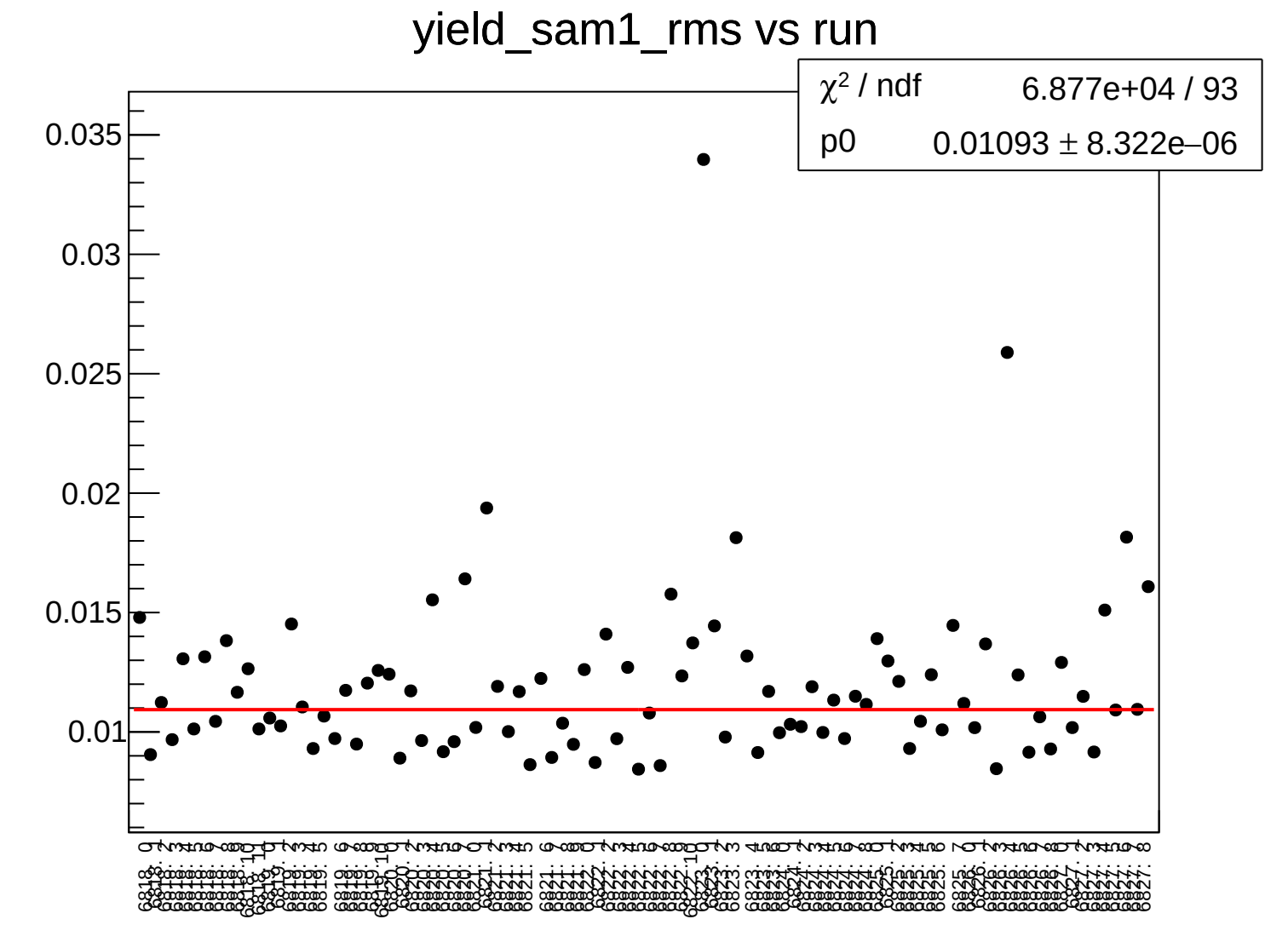

diff_bpm1i06Y_mean vs run
χ² / ndf 79.81 / 93
p0 14.55 ± 2.396
pull
Entries 94
Mean 425.3
Std Dev 0

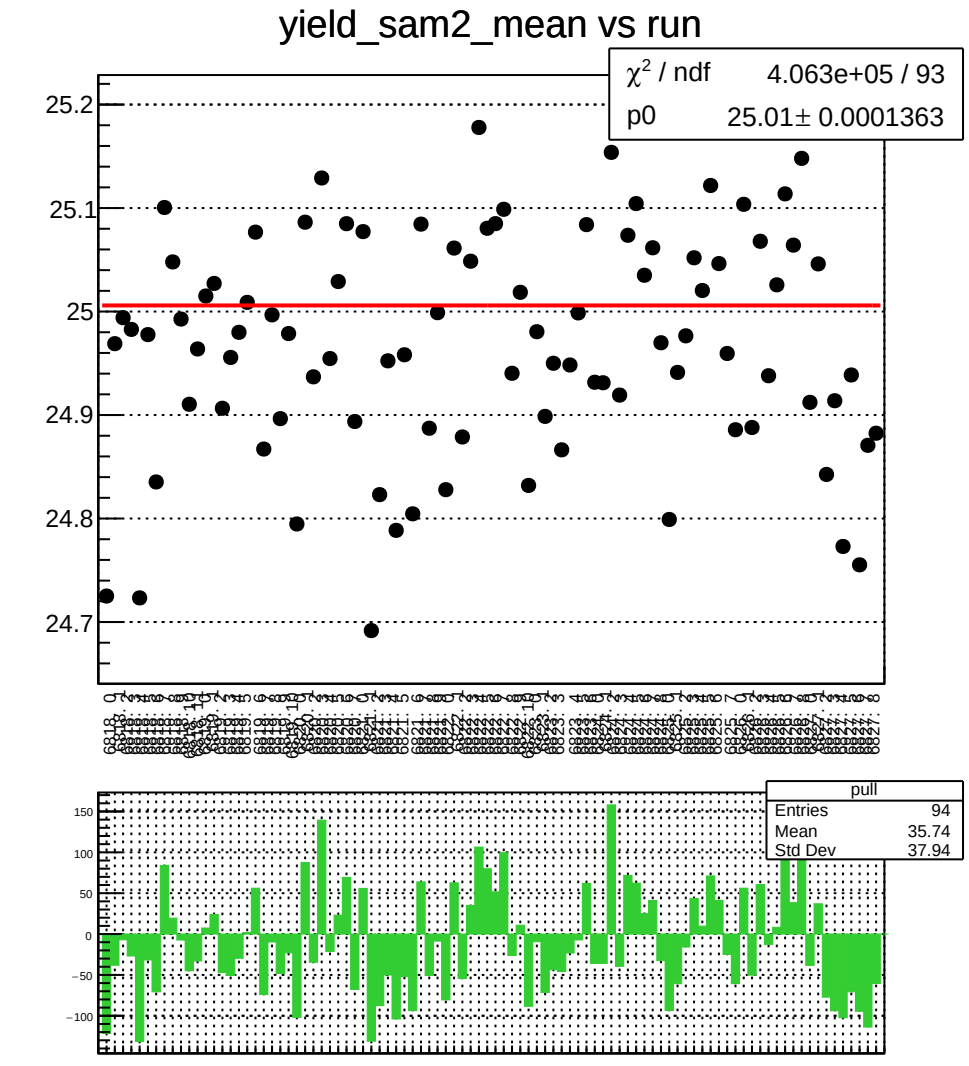

pull1D
Entries 94
Mean −0.004557
Std Dev 0.9214

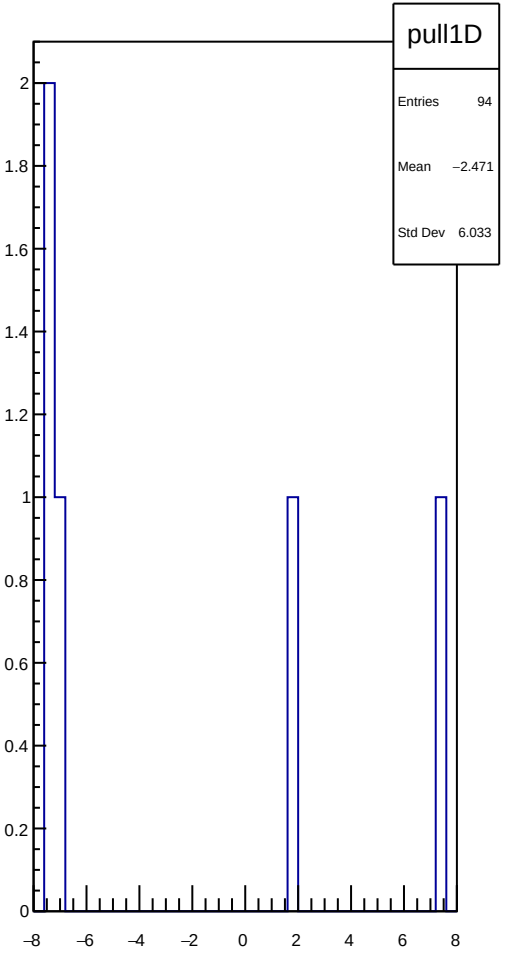

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1162 / 93
p0 2270 ± 1.695
2400
2300
2200
2100
2000

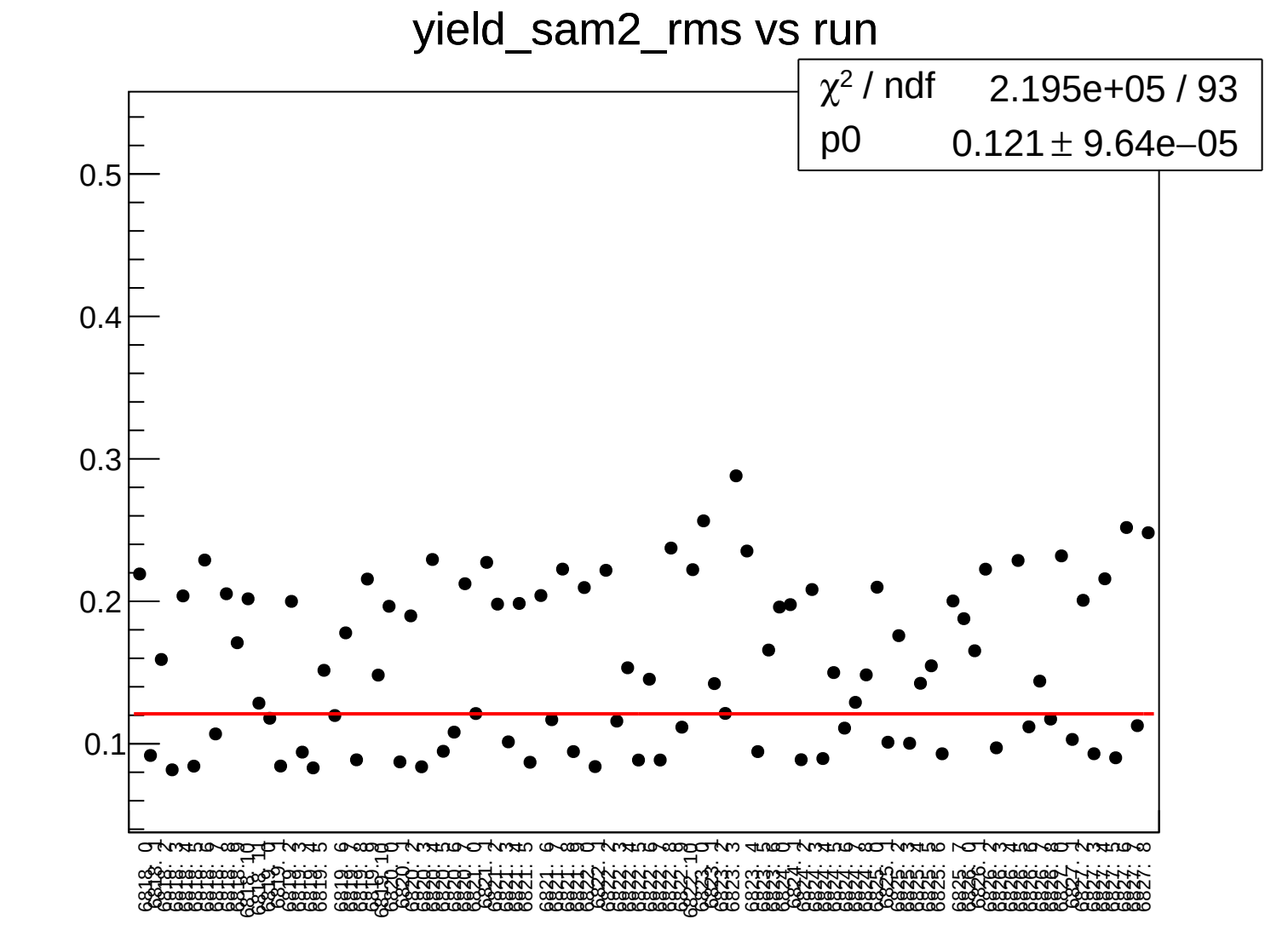

yield_sam1_mean vs run
χ² / ndf 3.124e+06 / 93
p0 15.53 ± 1.177e−05
15.56
15.54
15.52
15.5
15.48
pull
Entries 94
Mean 701
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

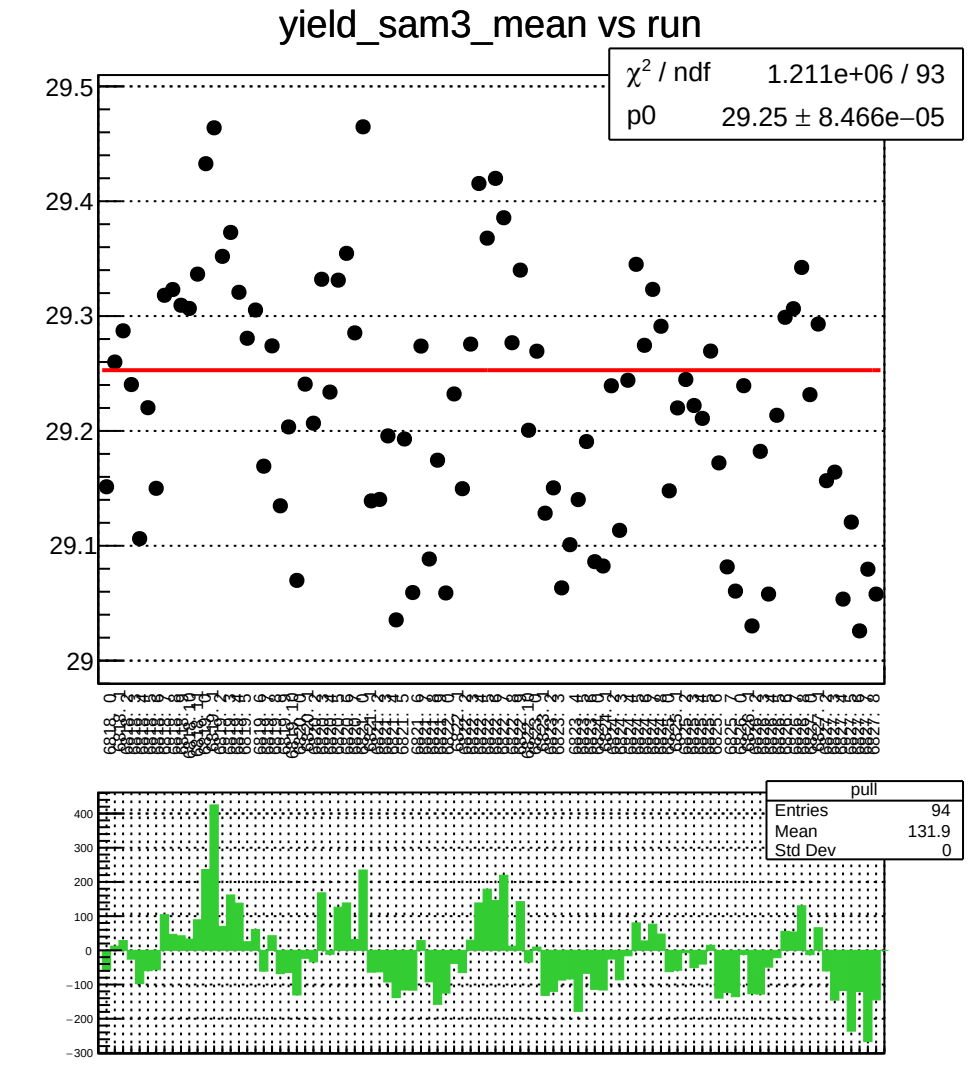

pull1D
Entries 94
Mean 1.552
Std Dev 4.587
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

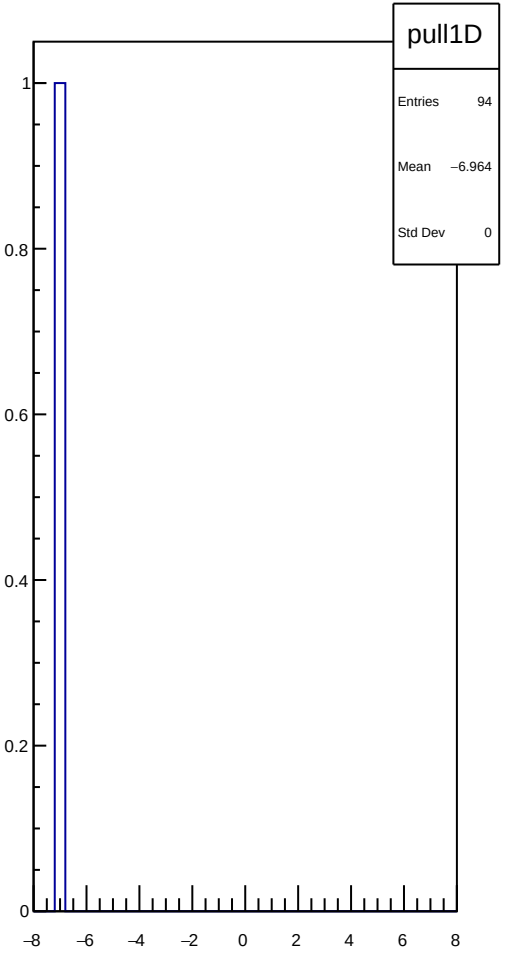

yield_sam1_rms vs run
χ² / ndf 6.877e+04 / 93
p0 0.01093 ± 8.322e–06
0.035
0.03
0.025
0.02
0.015
0.01

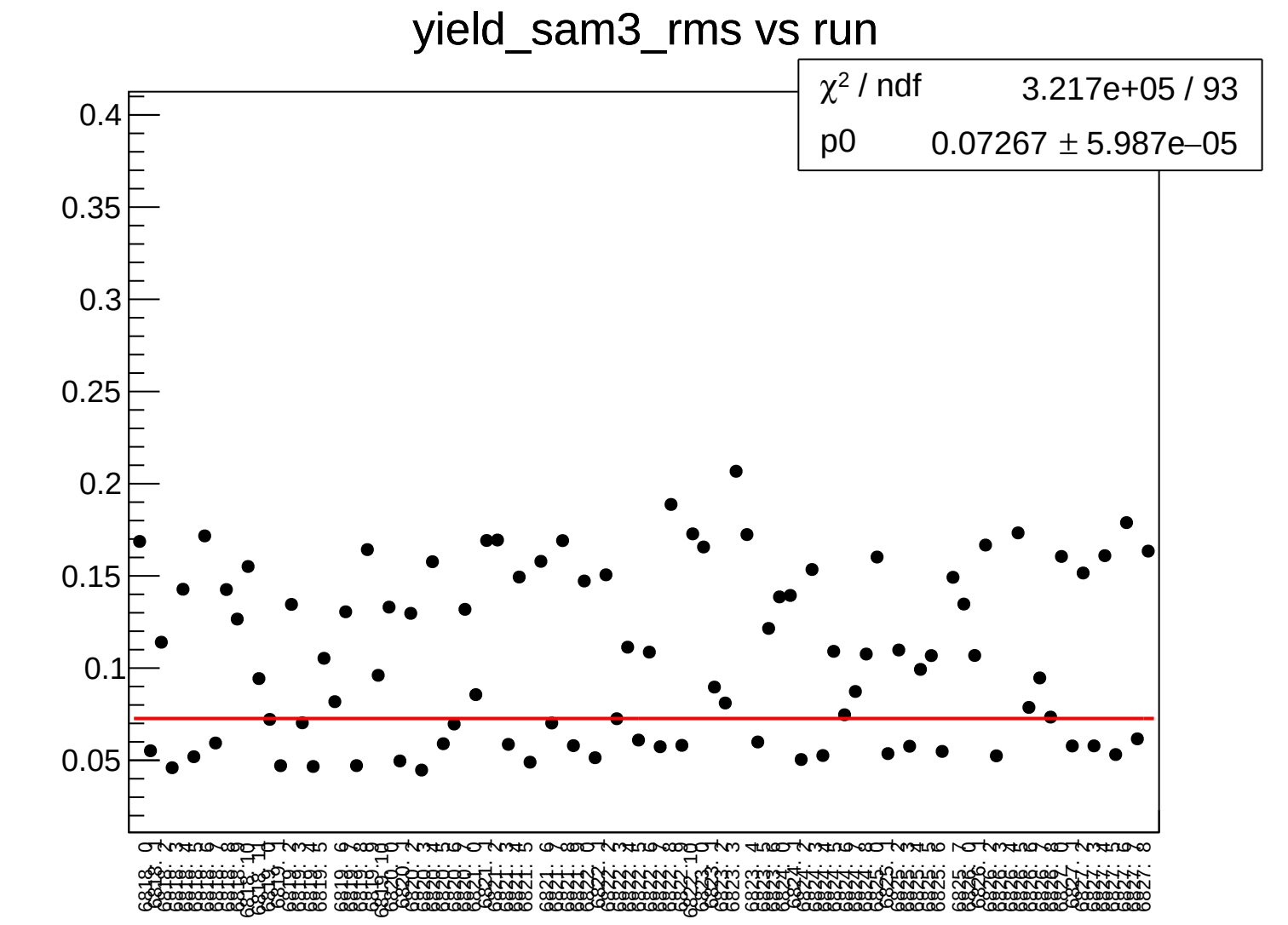

yield_sam2_mean vs run
χ² / ndf 4.063e+05 / 93
p0 25.01± 0.0001363
25.2
25.1
25
24.9
24.8
24.7
pull
Entries 94
Mean 35.74
Std Dev 37.94
150
100
50
0
−50
−100

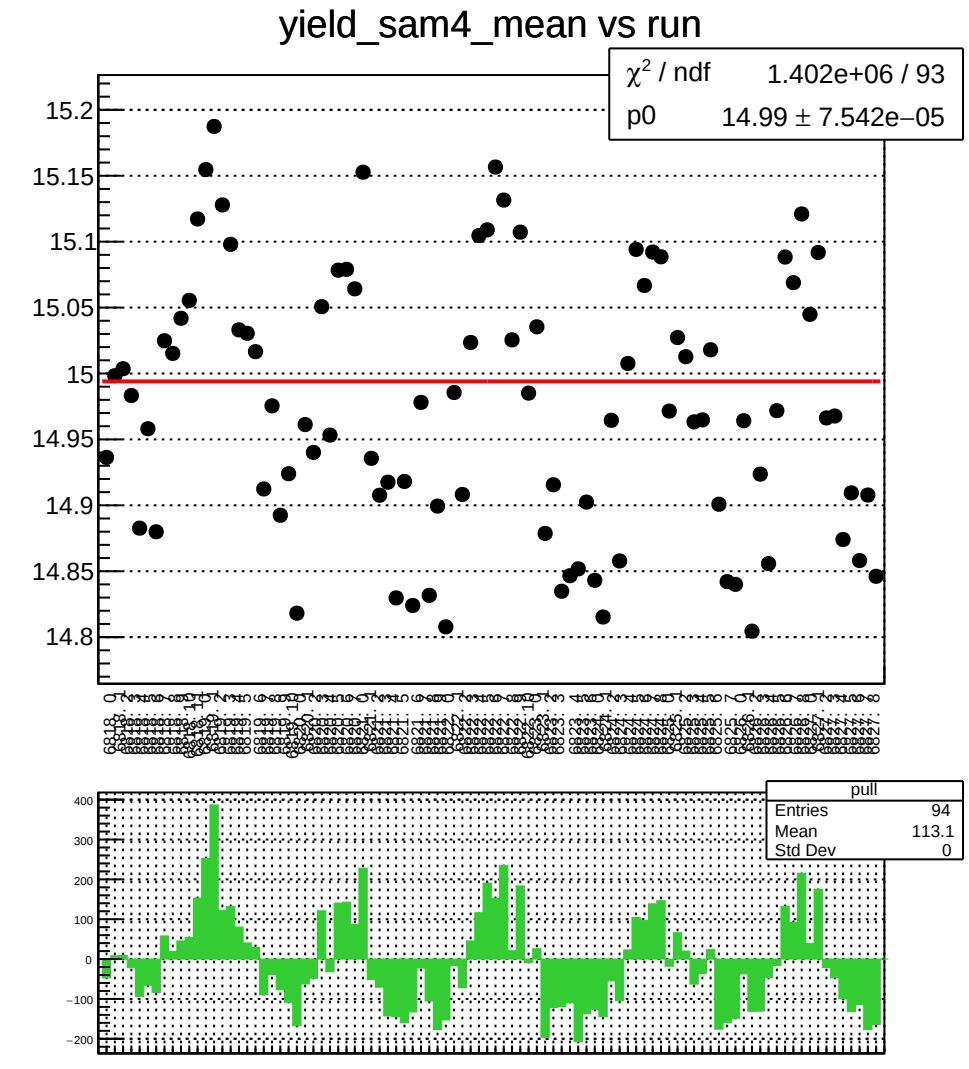

pull1D
Entries 94
Mean −2.471
Std Dev 6.033
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

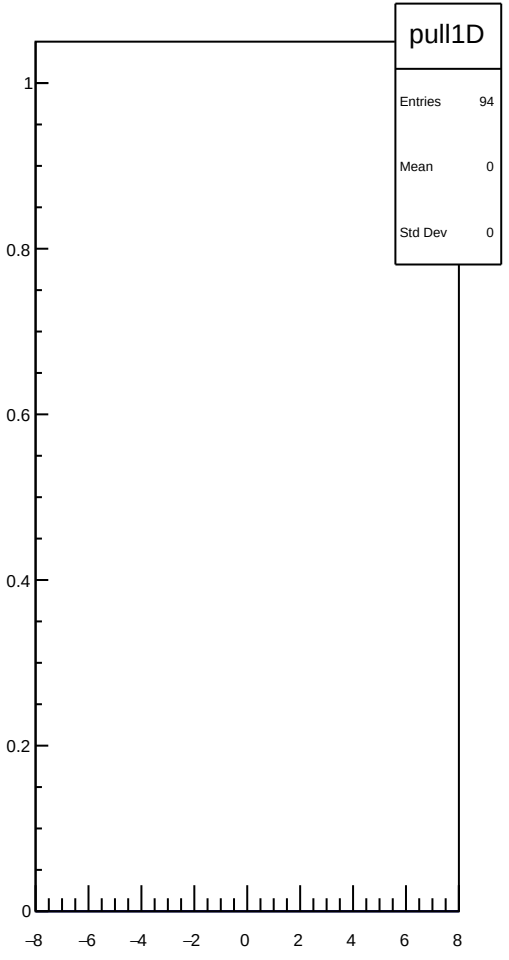

yield_sam2_rms vs run
χ² / ndf 2.195e+05 / 93
p0 0.121 ± 9.64e−05
0.5
0.4
0.3
0.2
0.1

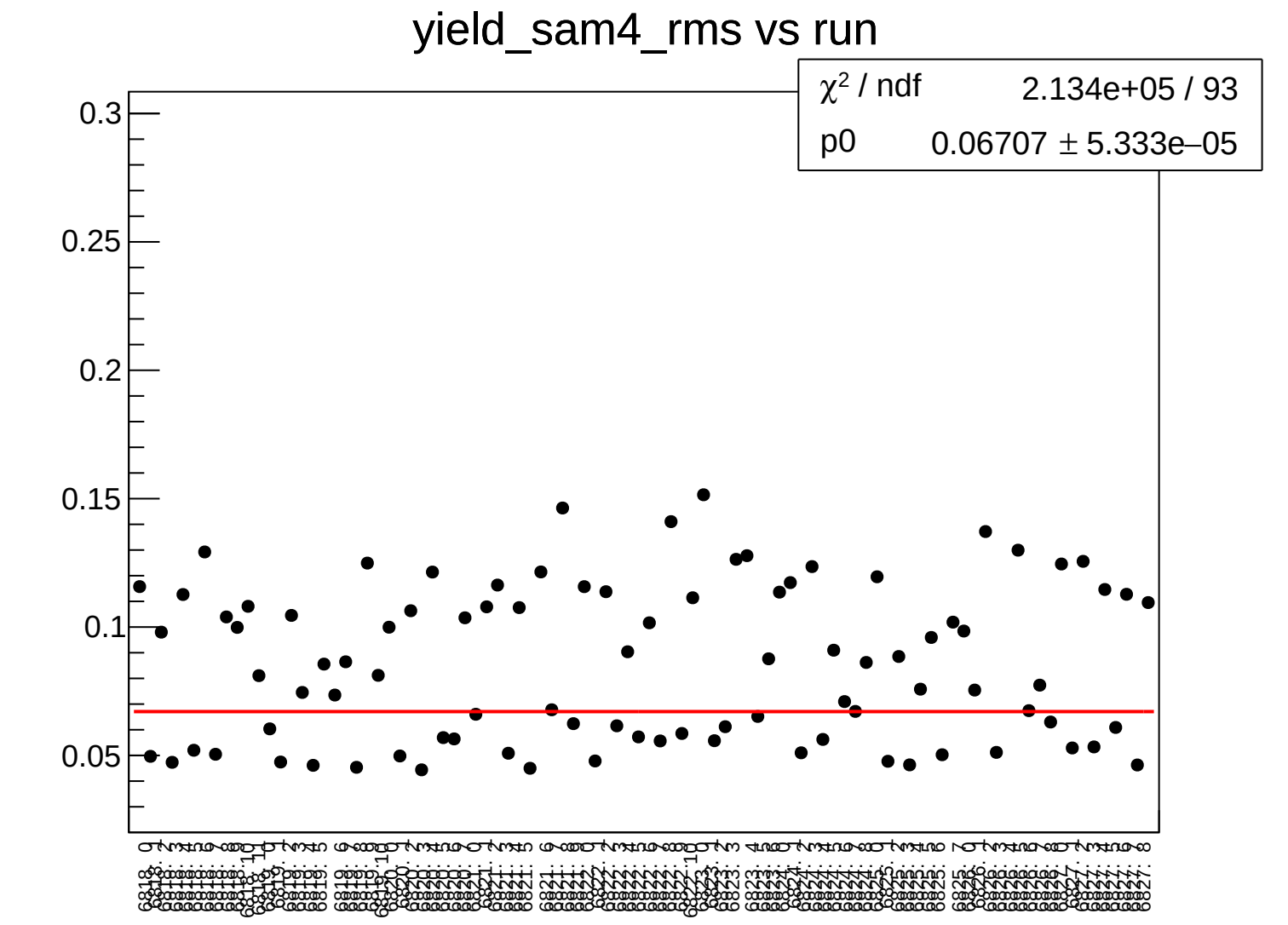

yield_sam3_mean vs run
χ² / ndf 1.211e+06 / 93
p0 29.25 ± 8.466e−05
29.5
29.4
29.3
29.2
29.1
29
pull
Entries 94
Mean 131.9
Std Dev 0
400
300
200
100
0
−100
−200
−300

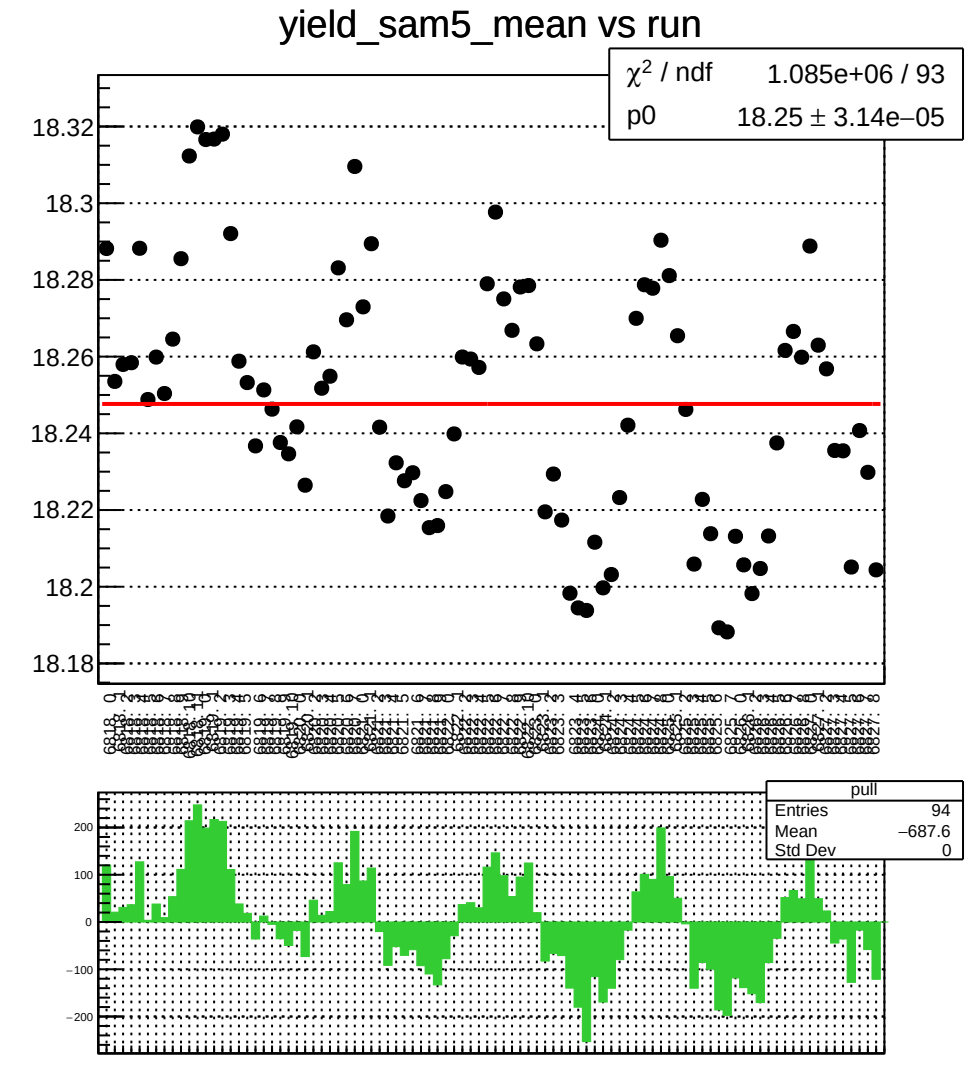

pull1D
Entries 94
Mean −6.964
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

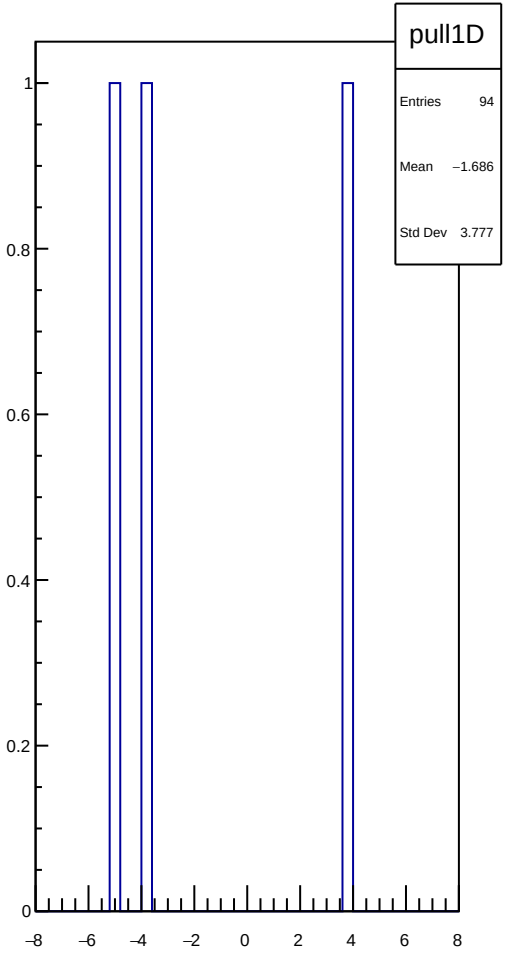

yield_sam3_rms vs run
χ² / ndf 3.217e+05 / 93
p0 0.07267 ± 5.987e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

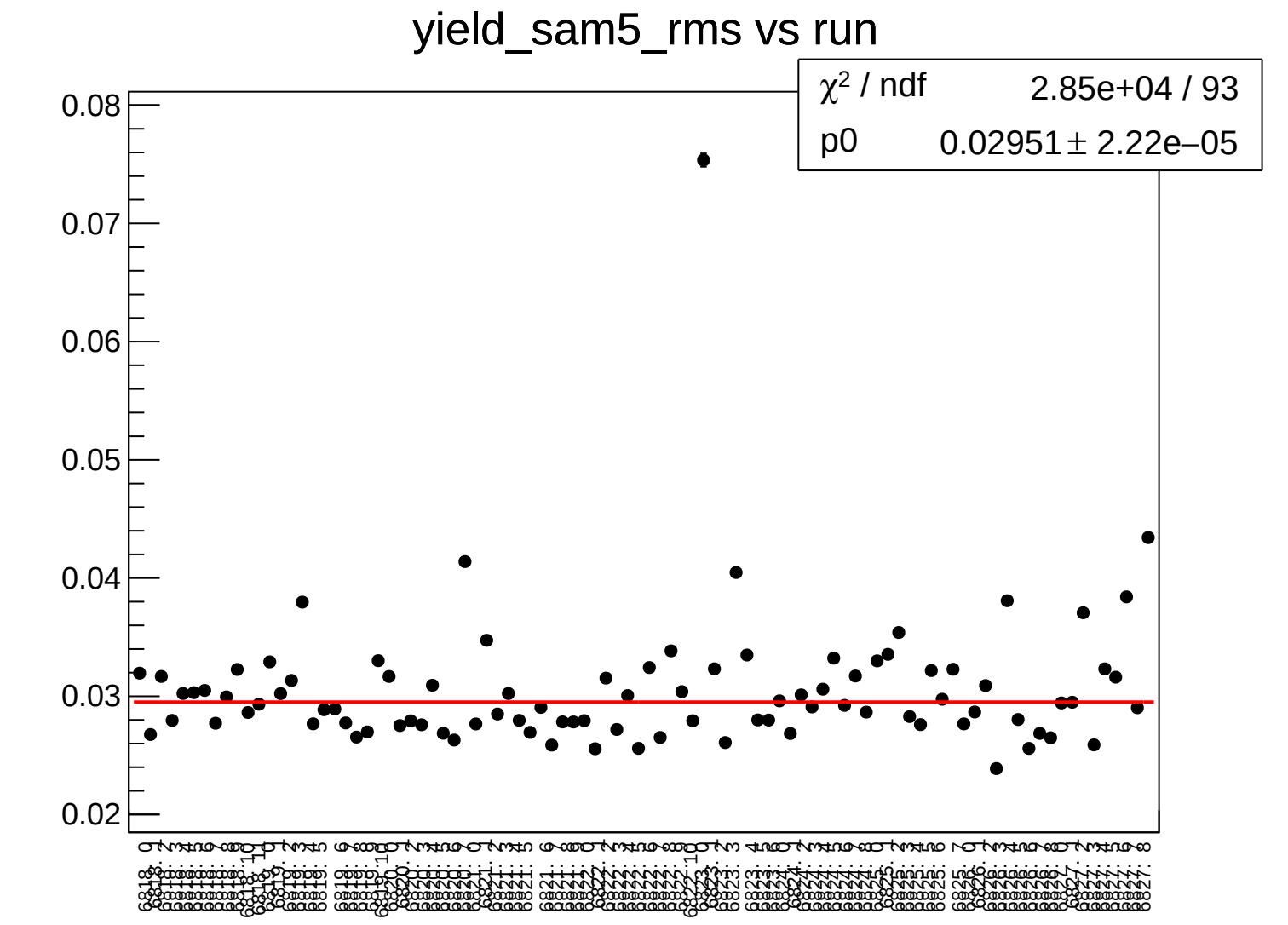

yield_sam4_mean vs run
χ² / ndf 1.402e+06 / 93
p0 14.99 ± 7.542e−05
15.2
15.15
15.1
15.05
15
14.95
14.9
14.85
14.8
pull
Entries 94
Mean 113.1
Std Dev 0
400
300
200
100
0
−100
−200

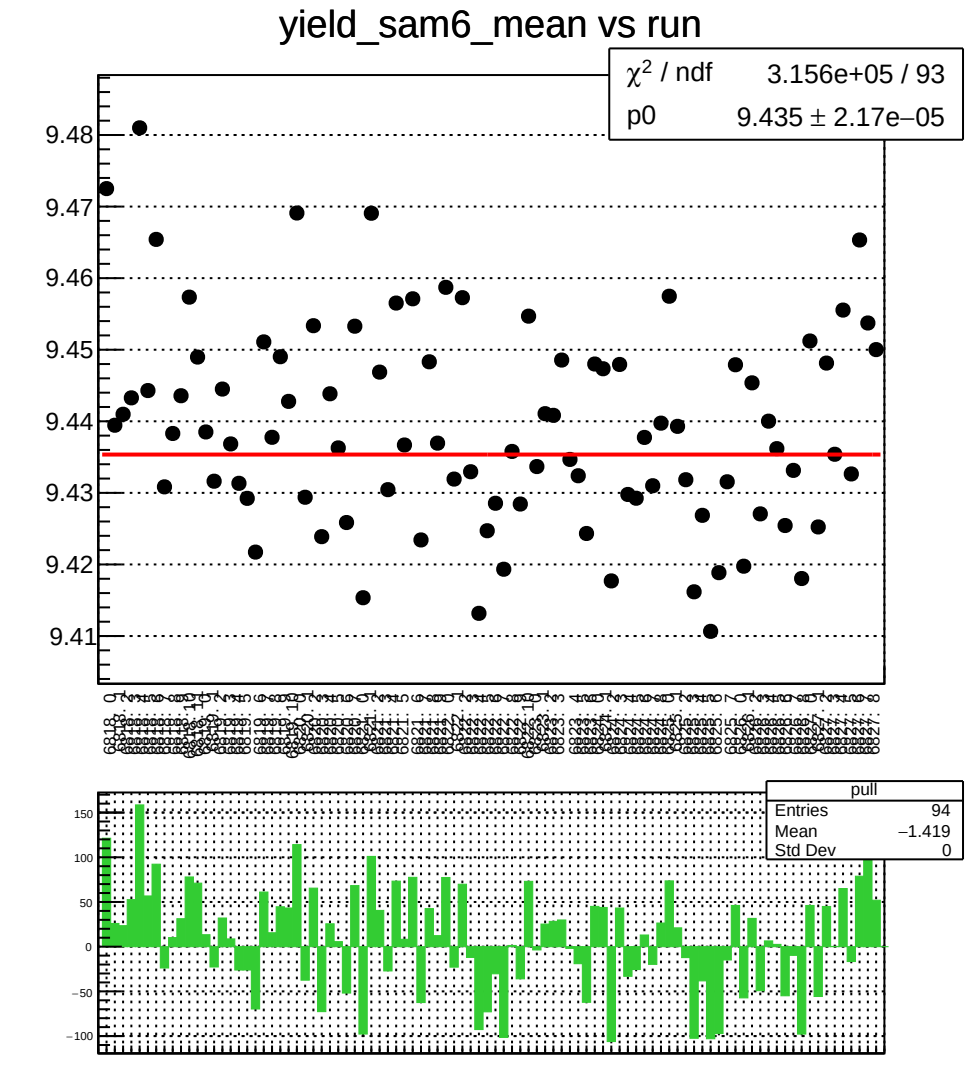

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

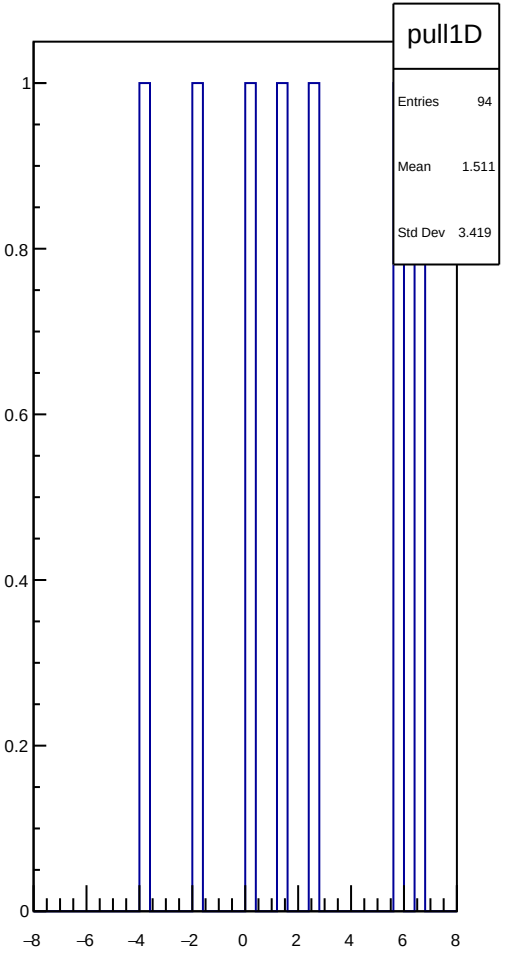

yield_sam4_rms vs run
χ² / ndf 2.134e+05 / 93
p0 0.06707 ± 5.333e–05
0.3
0.25
0.2
0.15
0.1
0.05

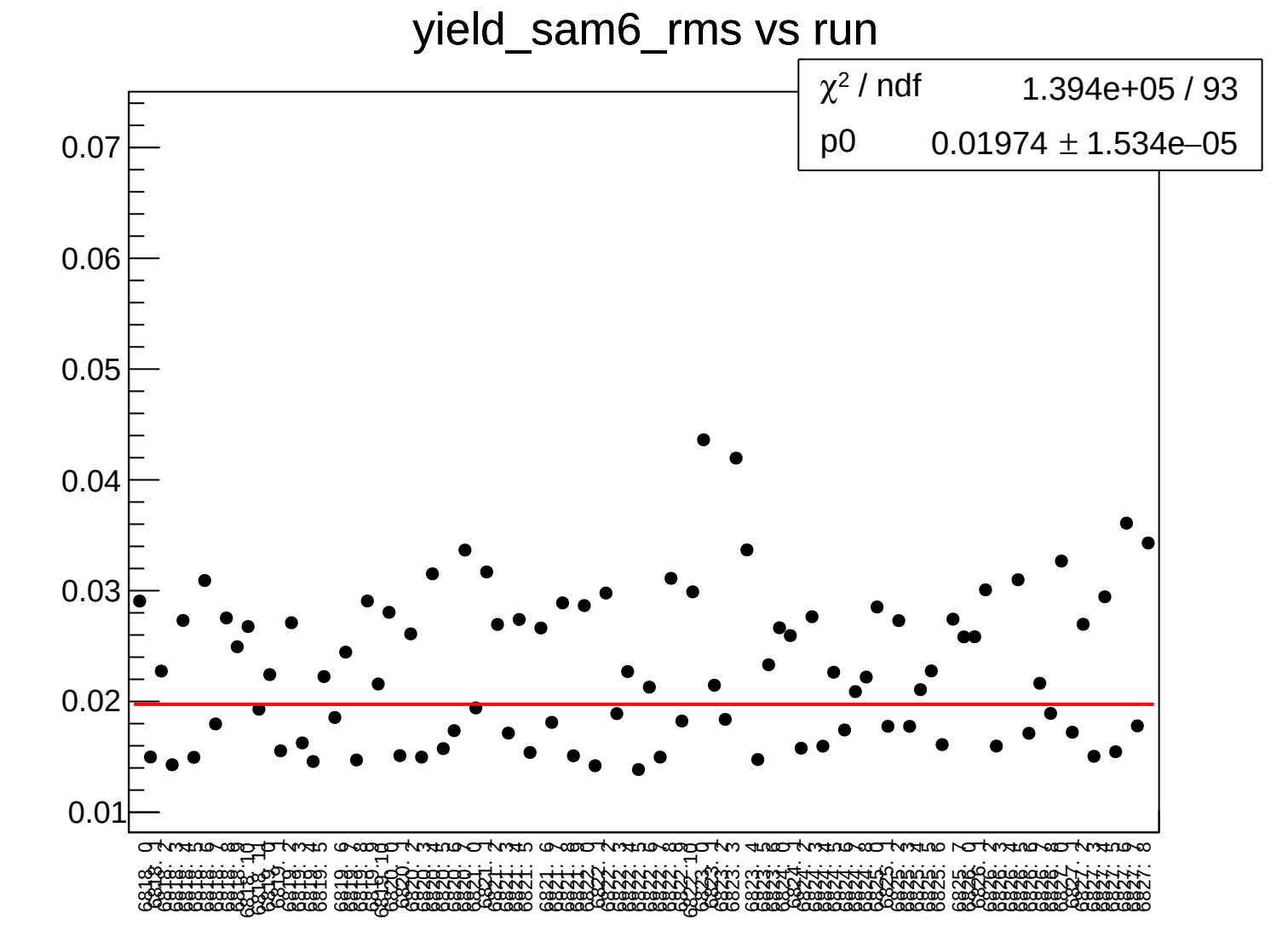

yield_sam5_mean vs run
χ² / ndf 1.085e+06 / 93
p0 18.25 ± 3.14e−05
18.32
18.3
18.28
18.26
18.24
18.22
18.2
18.18
pull
Entries 94
Mean −687.6
Std Dev 0
200
100
0
−100
−200

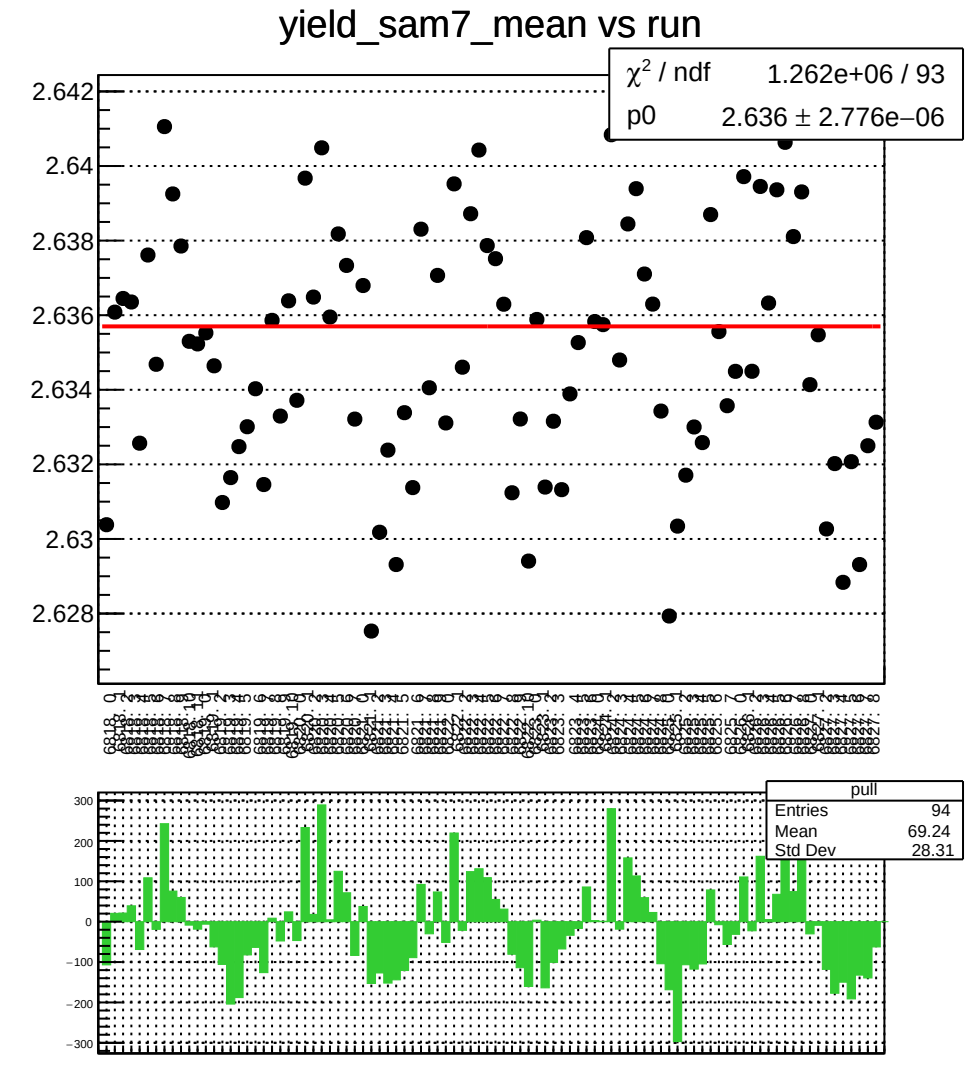

pull1D
Entries 94
Mean −1.686
Std Dev 3.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

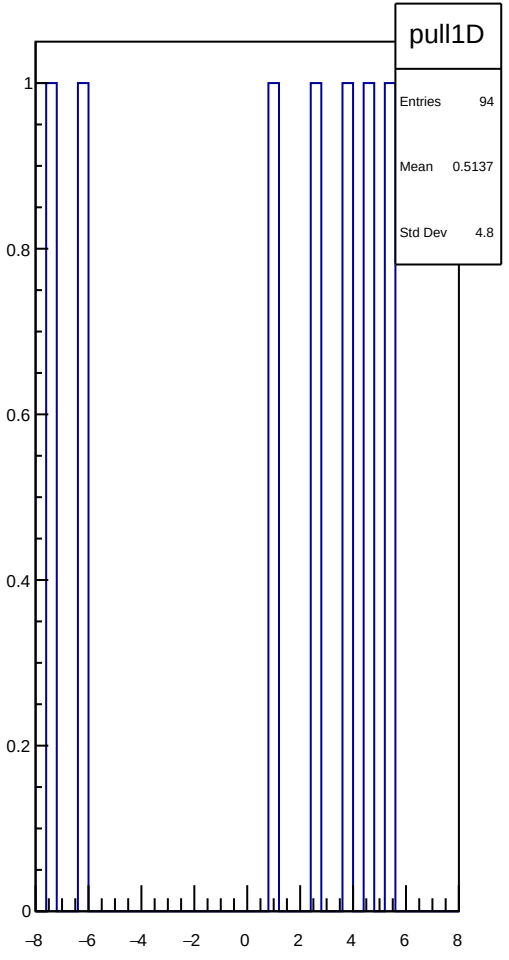

yield_sam5_rms vs run
χ² / ndf 2.85e+04 / 93
p0 0.02951 ± 2.22e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

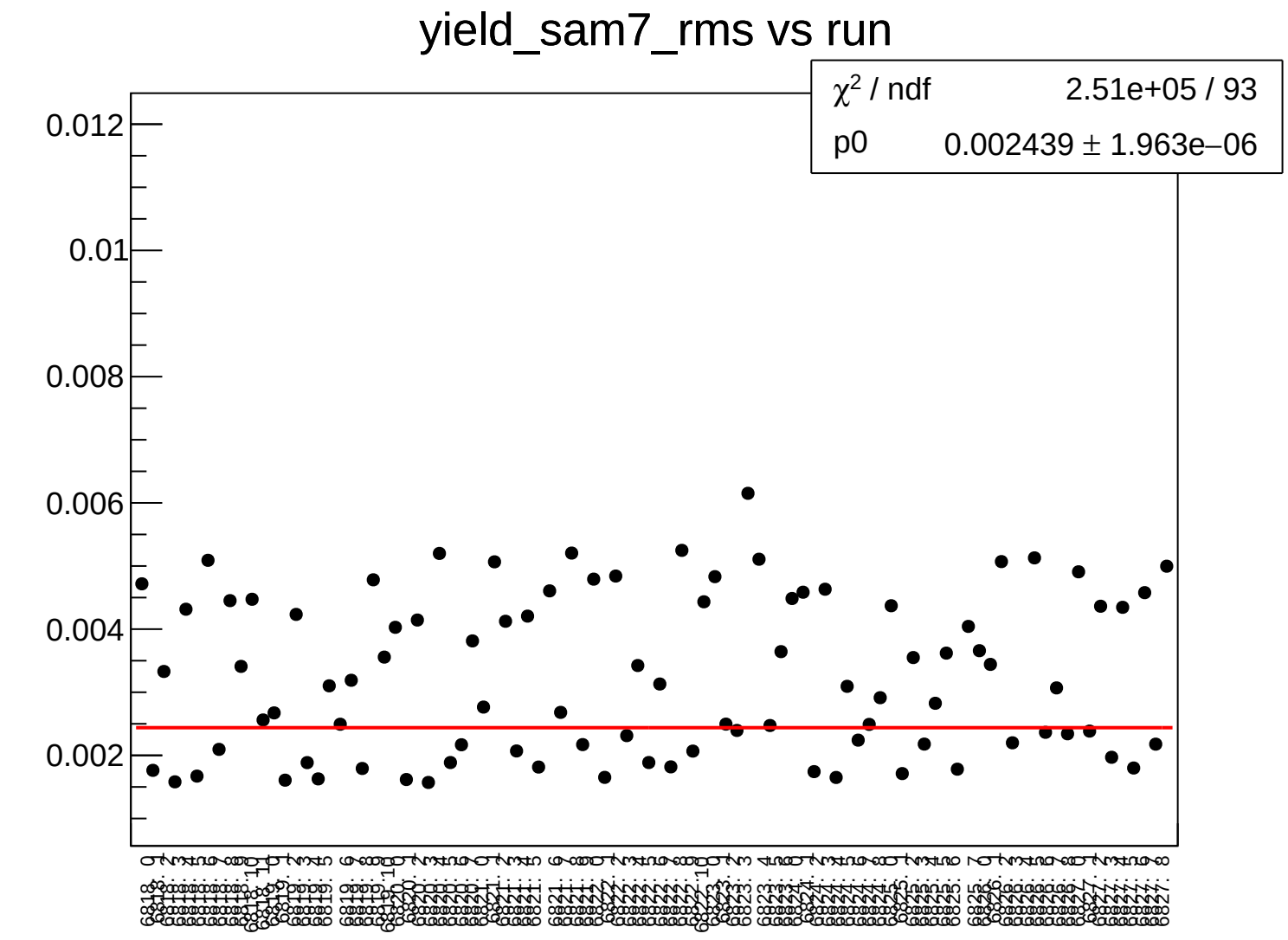

yield_sam6_mean vs run
χ² / ndf 3.156e+05 / 93
p0 9.435 ± 2.17e−05
9.48
9.47
9.46
9.45
9.44
9.43
9.42
9.41
pull
Entries 94
Mean −1.419
Std Dev 0
150
100
50
0
−50
−100

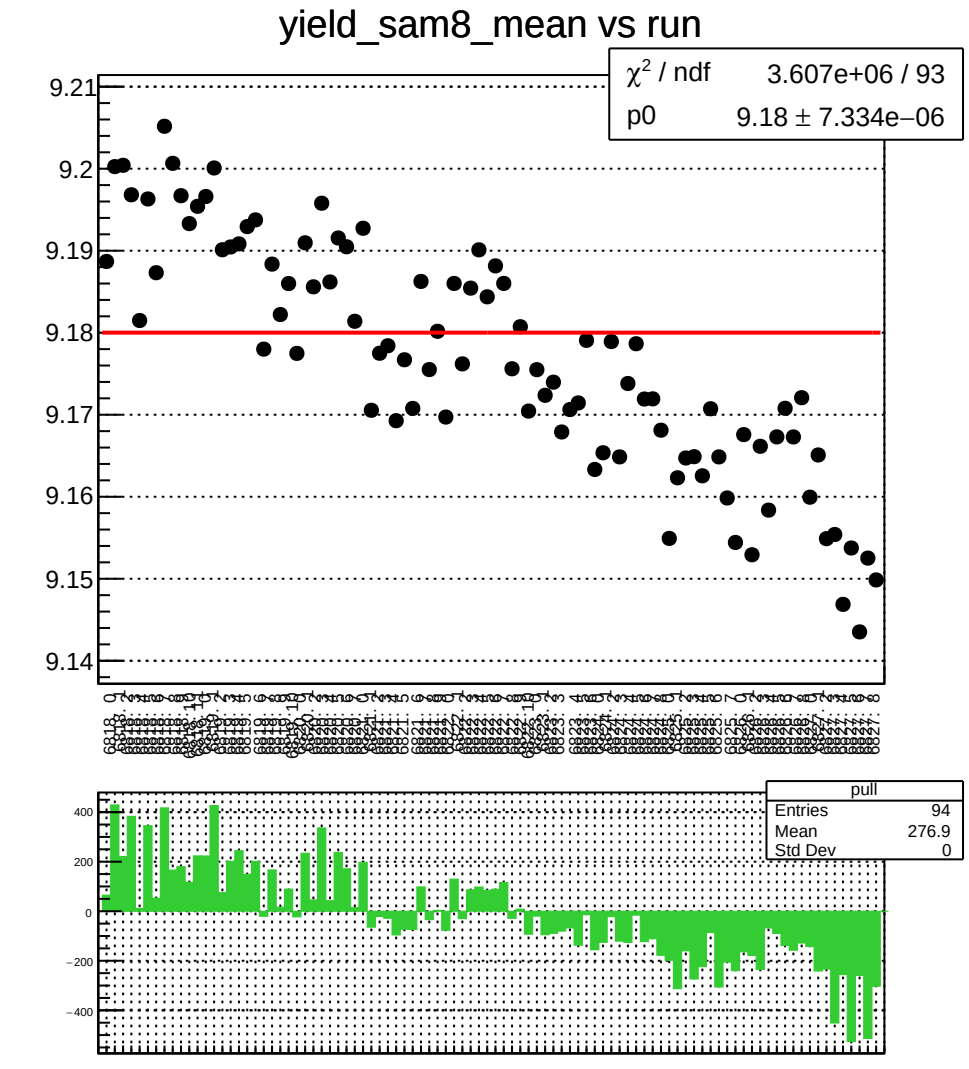

pull1D
Entries 94
Mean 1.511
Std Dev 3.419
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

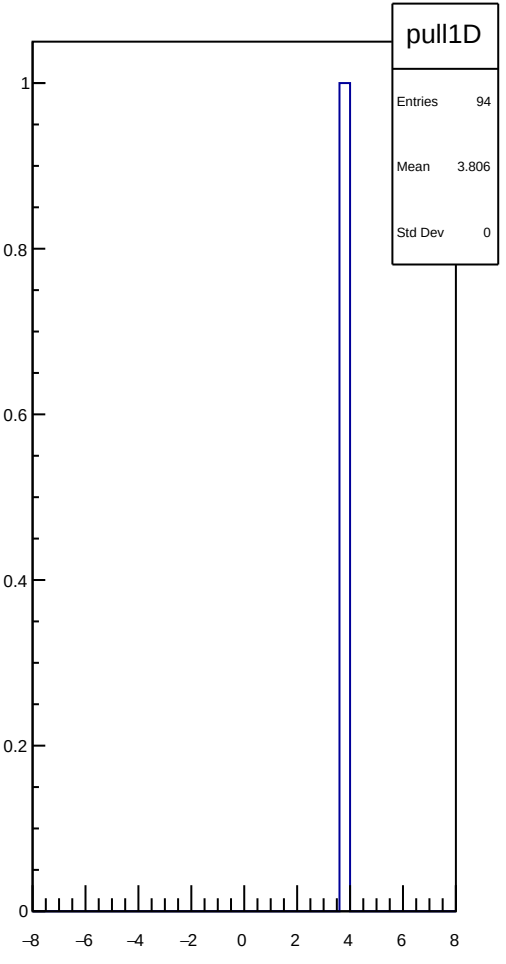

yield_sam6_rms vs run
χ² / ndf 1.394e+05 / 93
p0 0.01974 ± 1.534e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

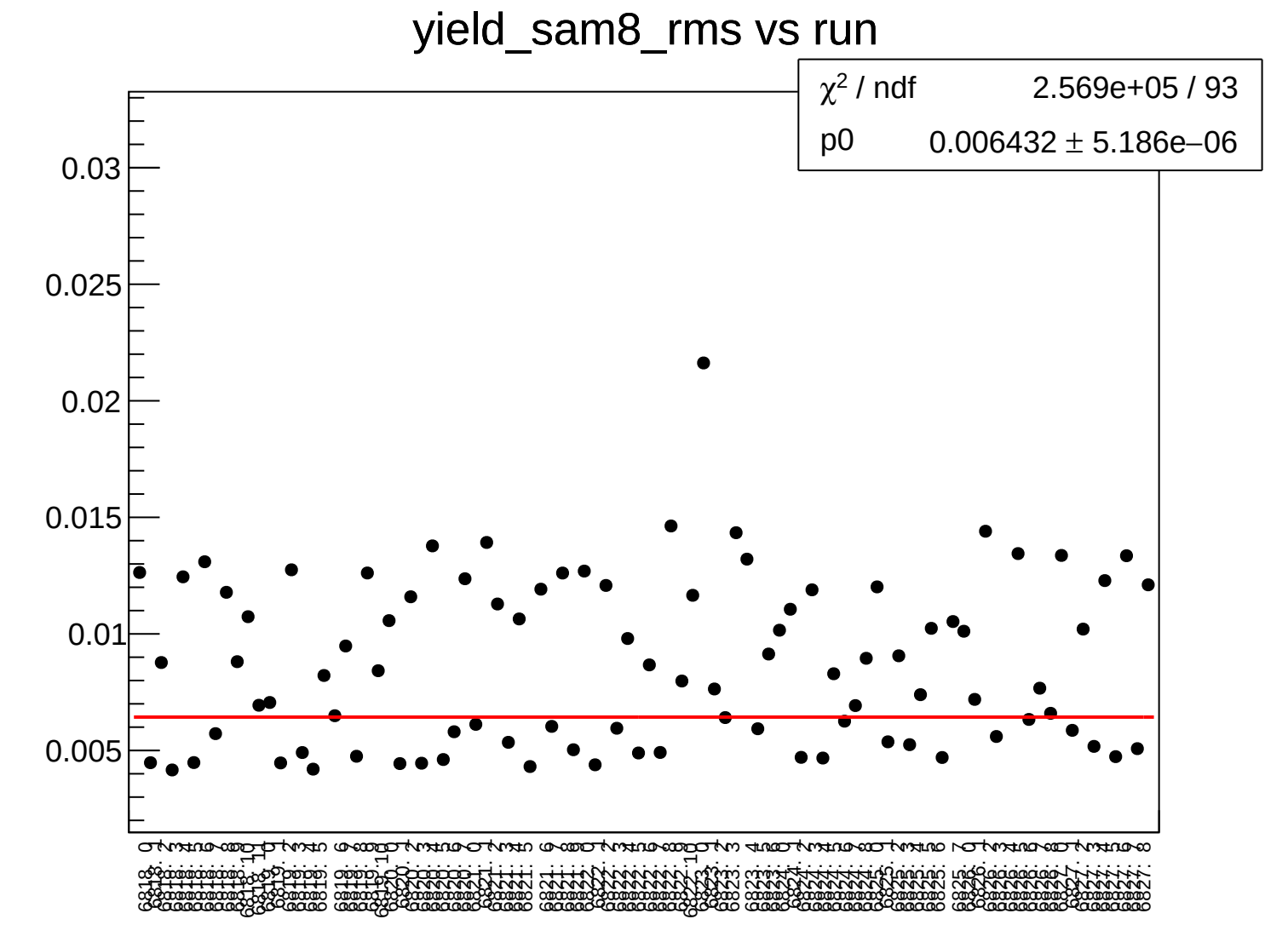

yield_sam7_mean vs run
χ² / ndf 1.262e+06 / 93
p0 2.636 ± 2.776e−06
2.642
2.64
2.638
2.636
2.634
2.632
2.63
2.628
pull
Entries 94
Mean 69.24
Std Dev 28.31
300
200
100
0
−100
−200
−300

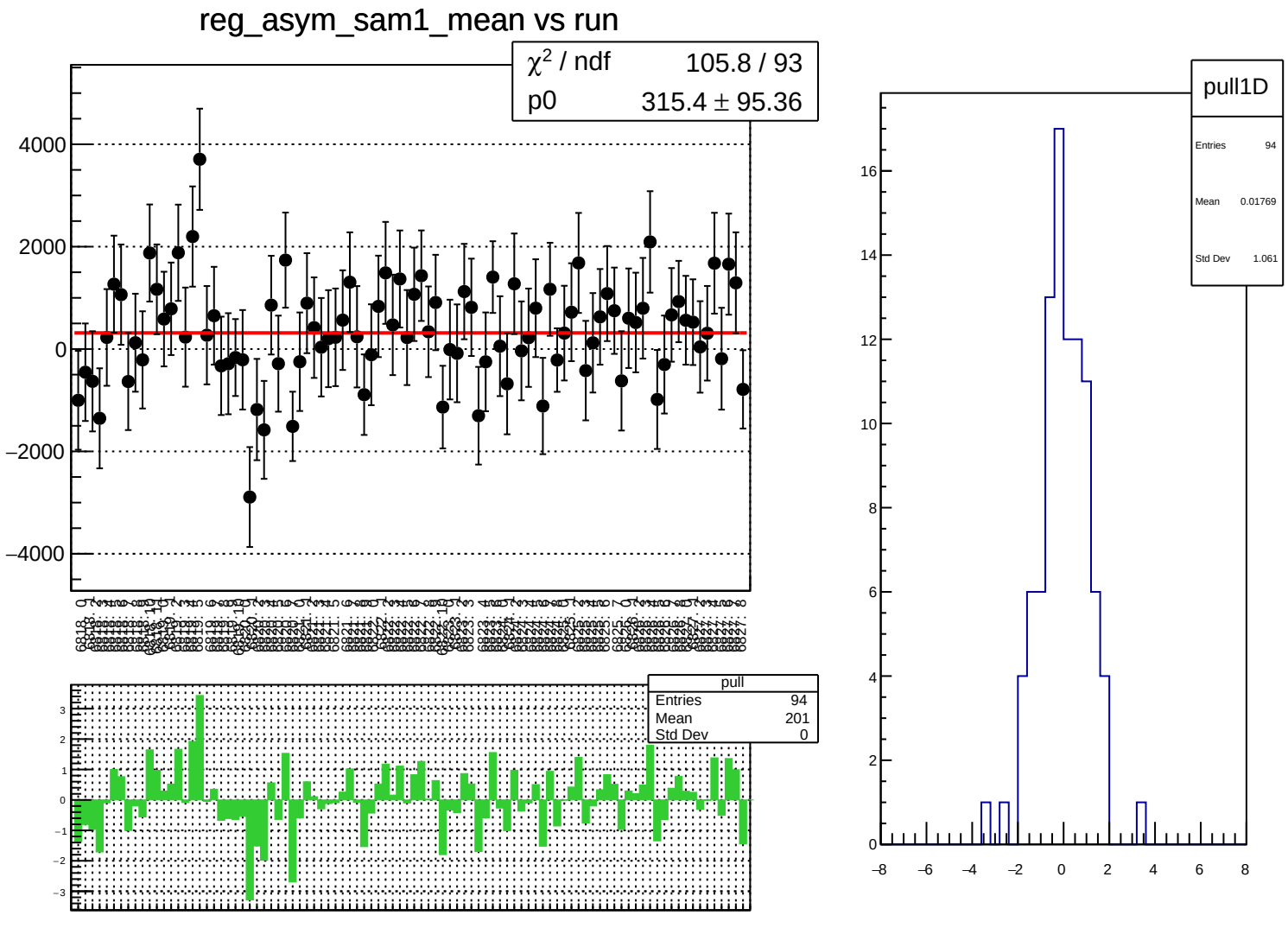

pull1D
Entries 94
Mean 0.5137
Std Dev 4.8
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

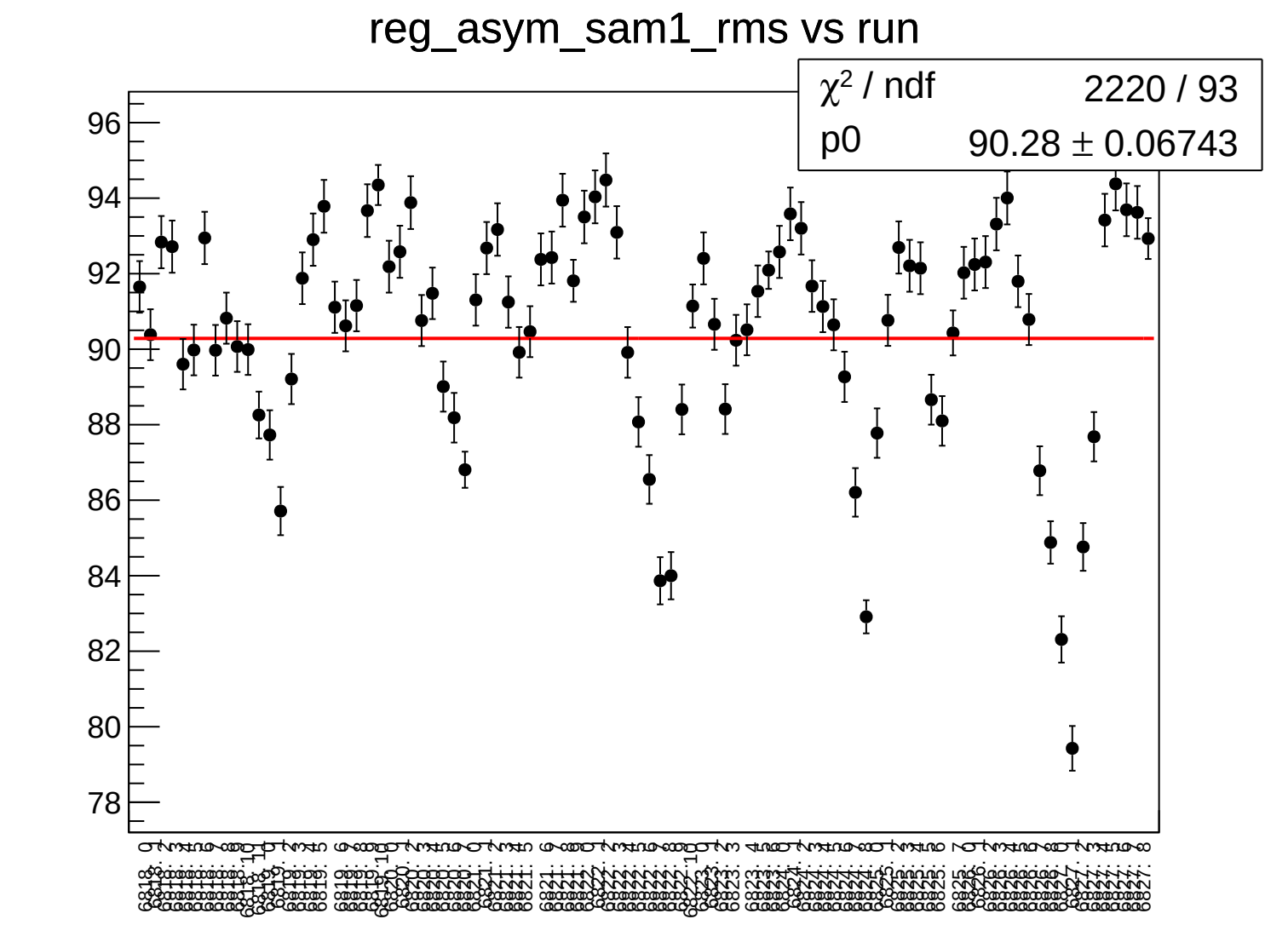

yield_sam7_rms vs run
χ^2 / ndf 2.51e+05 / 93
p0 0.002439 ± 1.963e−06
0.012
0.01
0.008
0.006
0.004
0.002

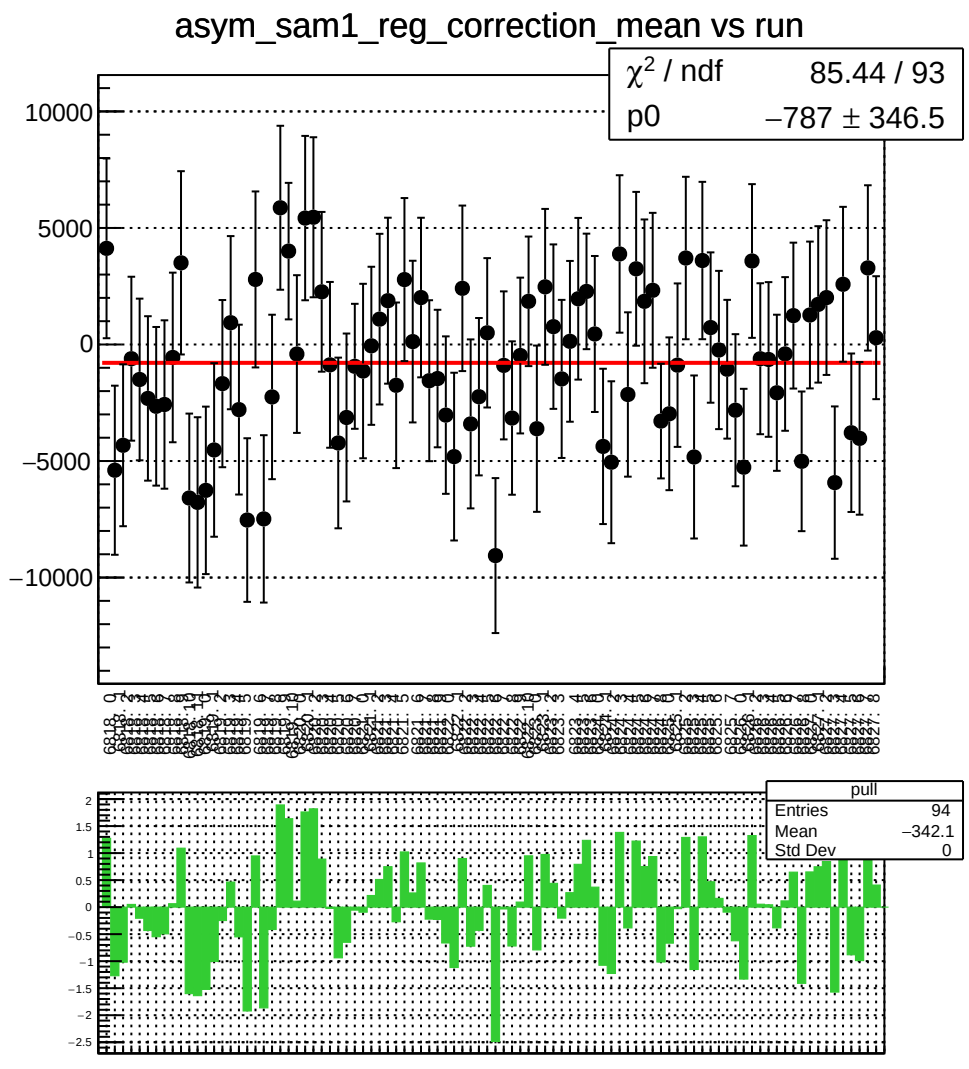

yield_sam8_mean vs run
χ² / ndf 3.607e+06 / 93
p0 9.18 ± 7.334e−06
9.21
9.2
9.19
9.18
9.17
9.16
9.15
9.14
pull
Entries 94
Mean 276.9
Std Dev 0
400
200
0
−200
−400

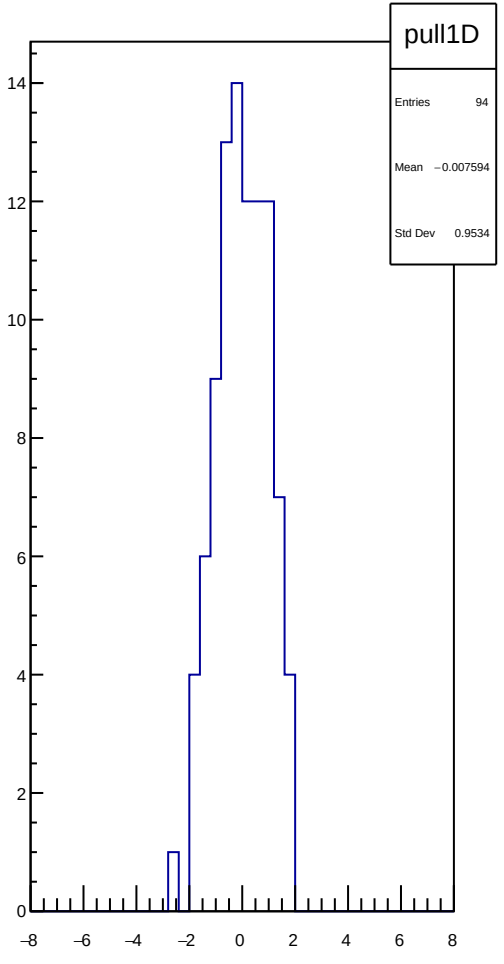

pull1D
Entries 94
Mean 3.806
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

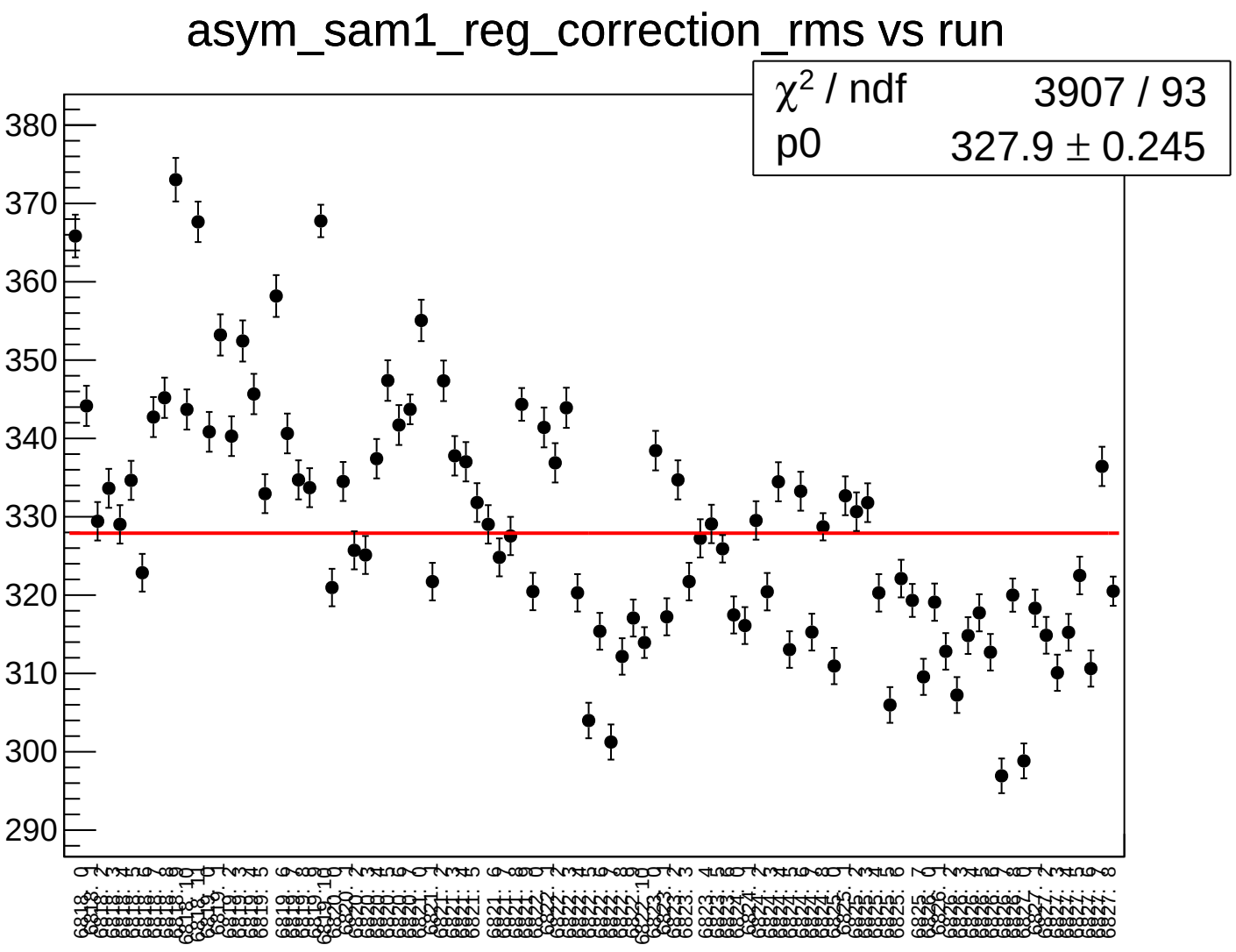

yield_sam8_rms vs run
χ^2 / ndf 2.569e+05 / 93
p0 0.006432 ± 5.186e−06
0.03
0.025
0.02
0.015
0.01
0.005

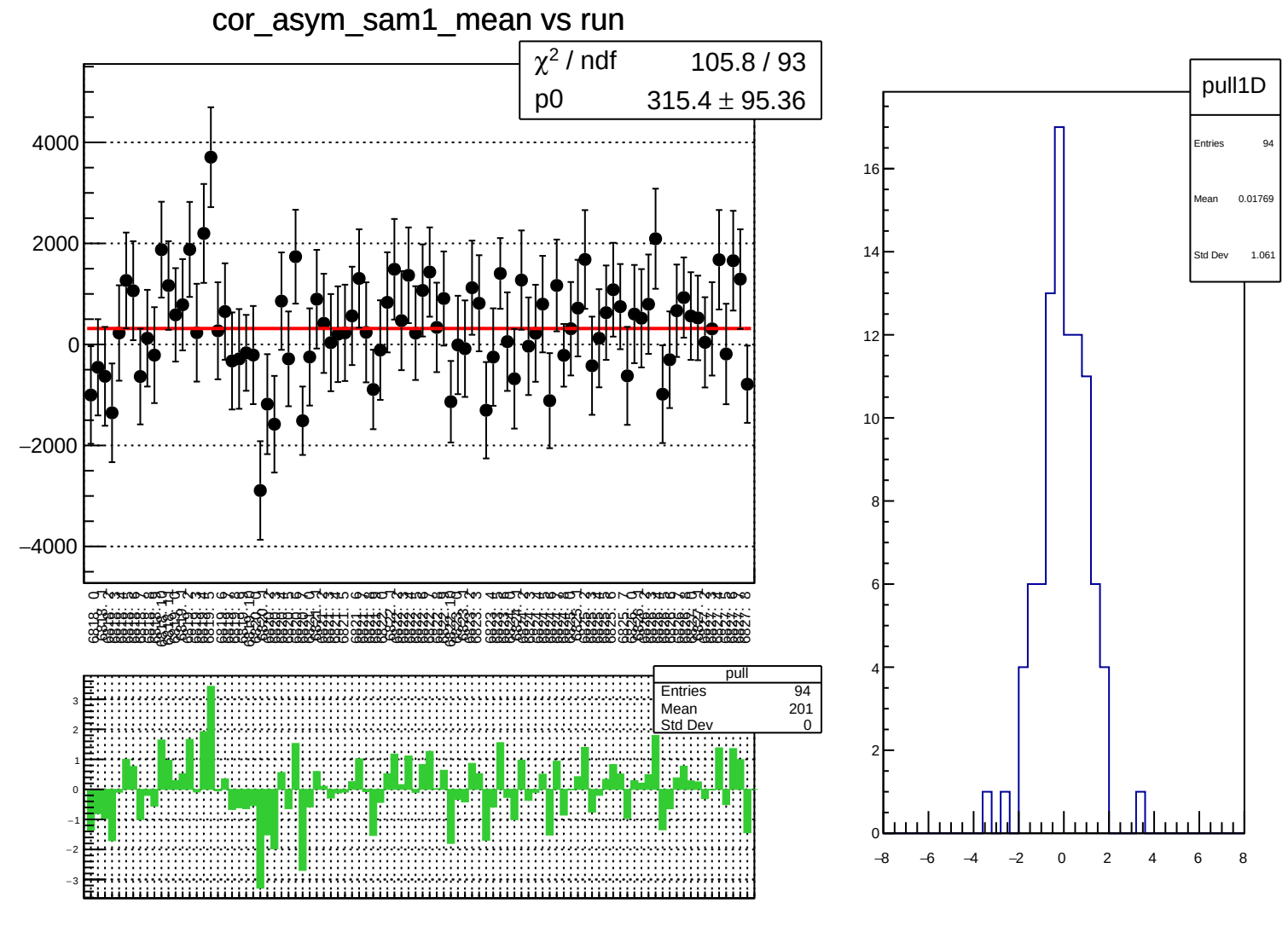

reg_asym_sam1_mean vs run
χ² / ndf 105.8 / 93
p0 315.4 ± 95.36
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 201
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01769
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

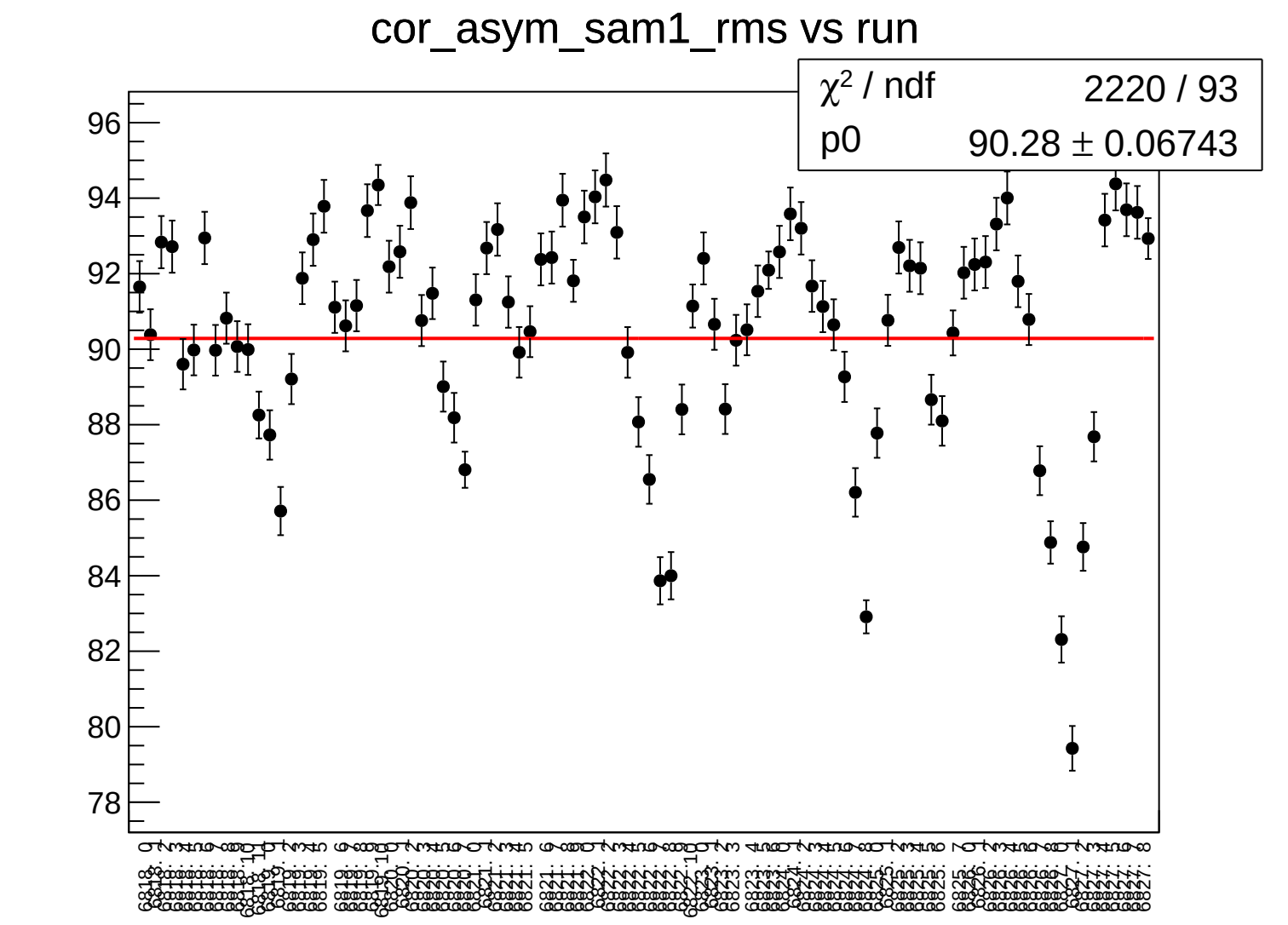

reg_asym_sam1_rms vs run
χ² / ndf 2220 / 93
p0 90.28 ± 0.06743
96
94
92
90
88
86
84
82
80
78

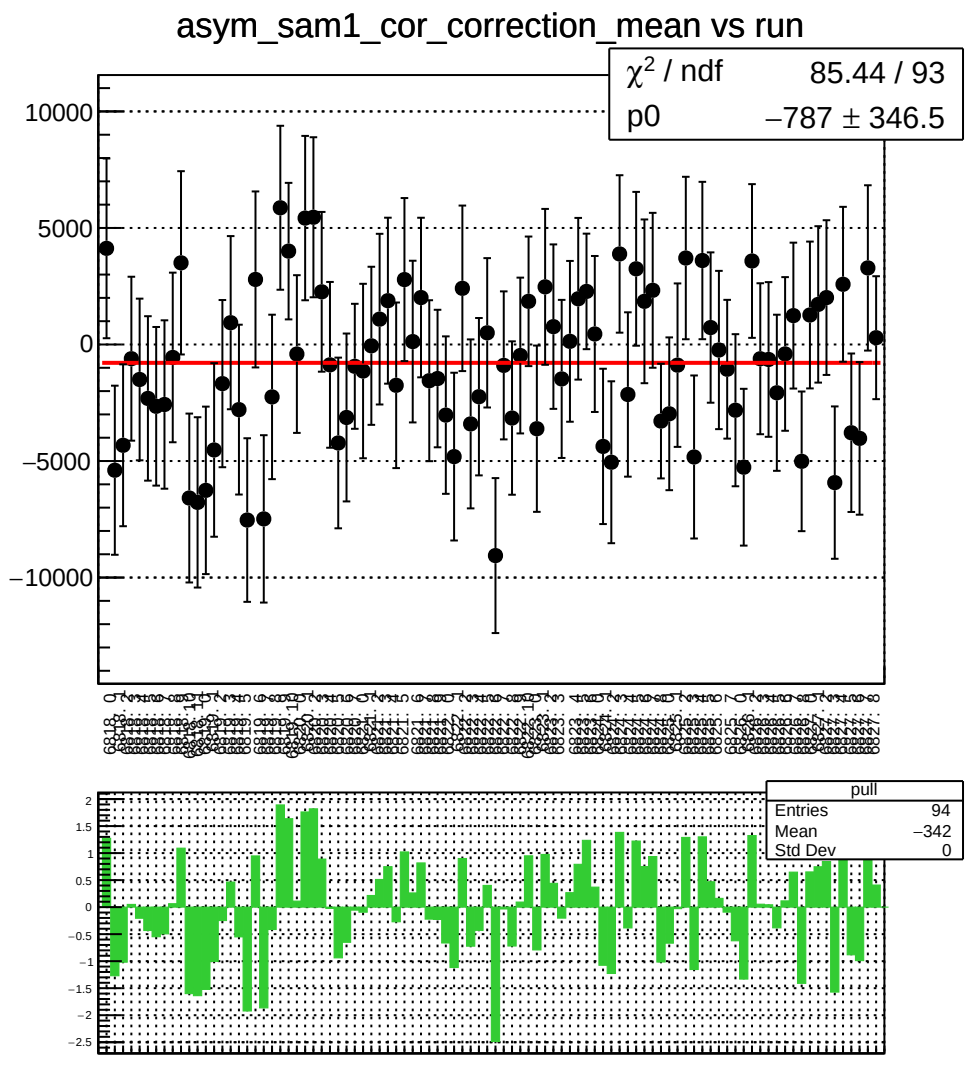

asym_sam1_reg_correction_mean vs run
χ² / ndf 85.44 / 93
p0 −787 ± 346.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −342.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

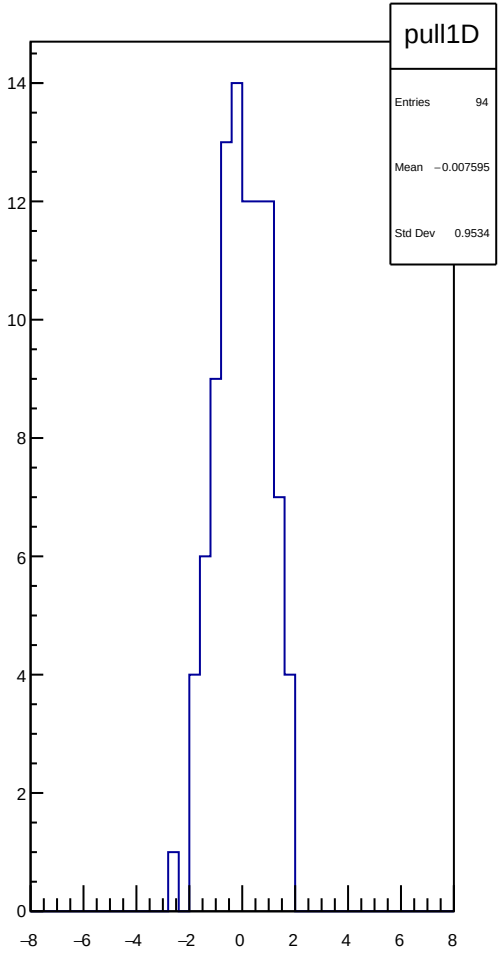

pull1D
Entries 94
Mean −0.007594
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

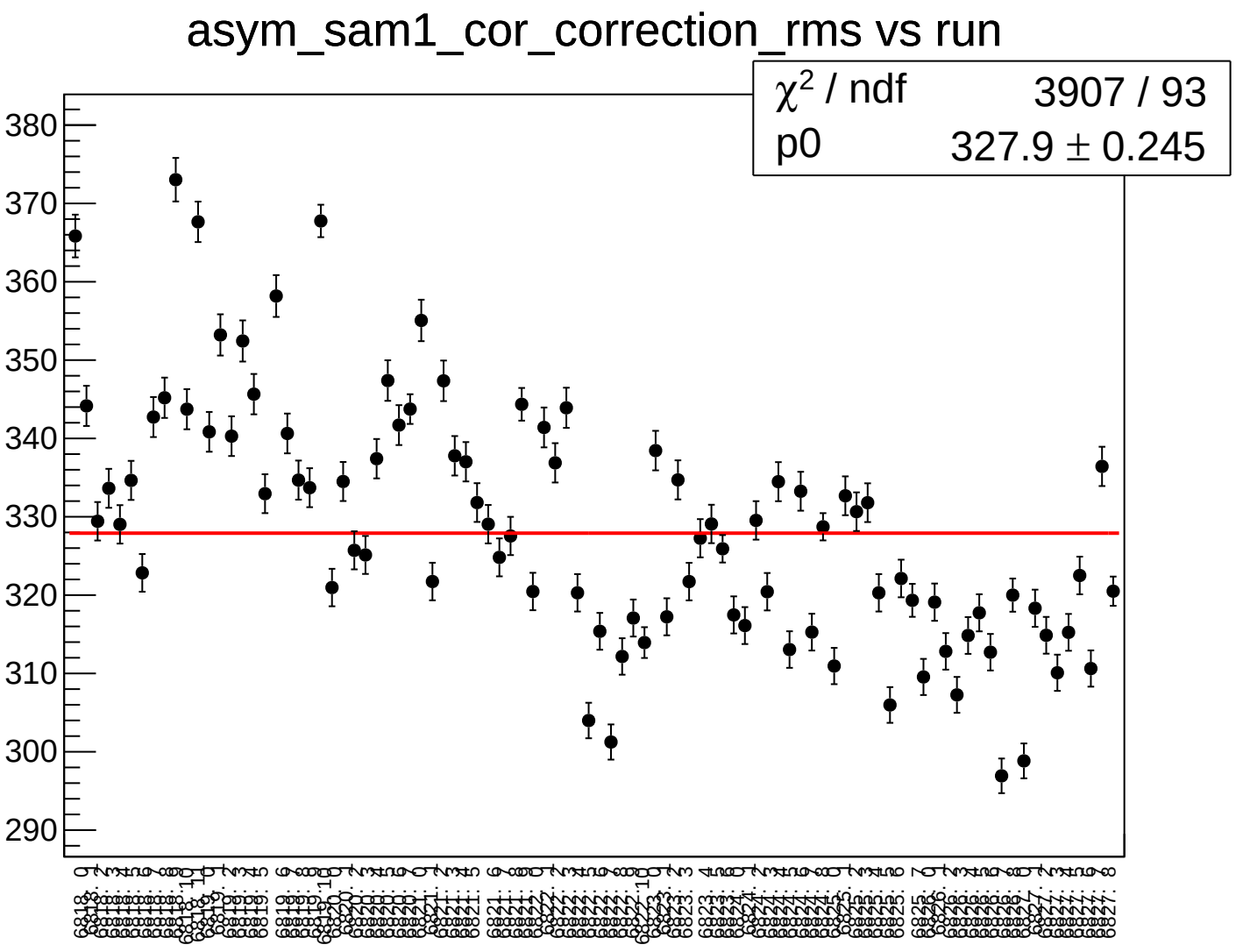

asym_sam1_reg_correction_rms vs run
χ² / ndf 3907 / 93
p0 327.9 ± 0.245
380
370
360
350
340
330
320
310
300
290

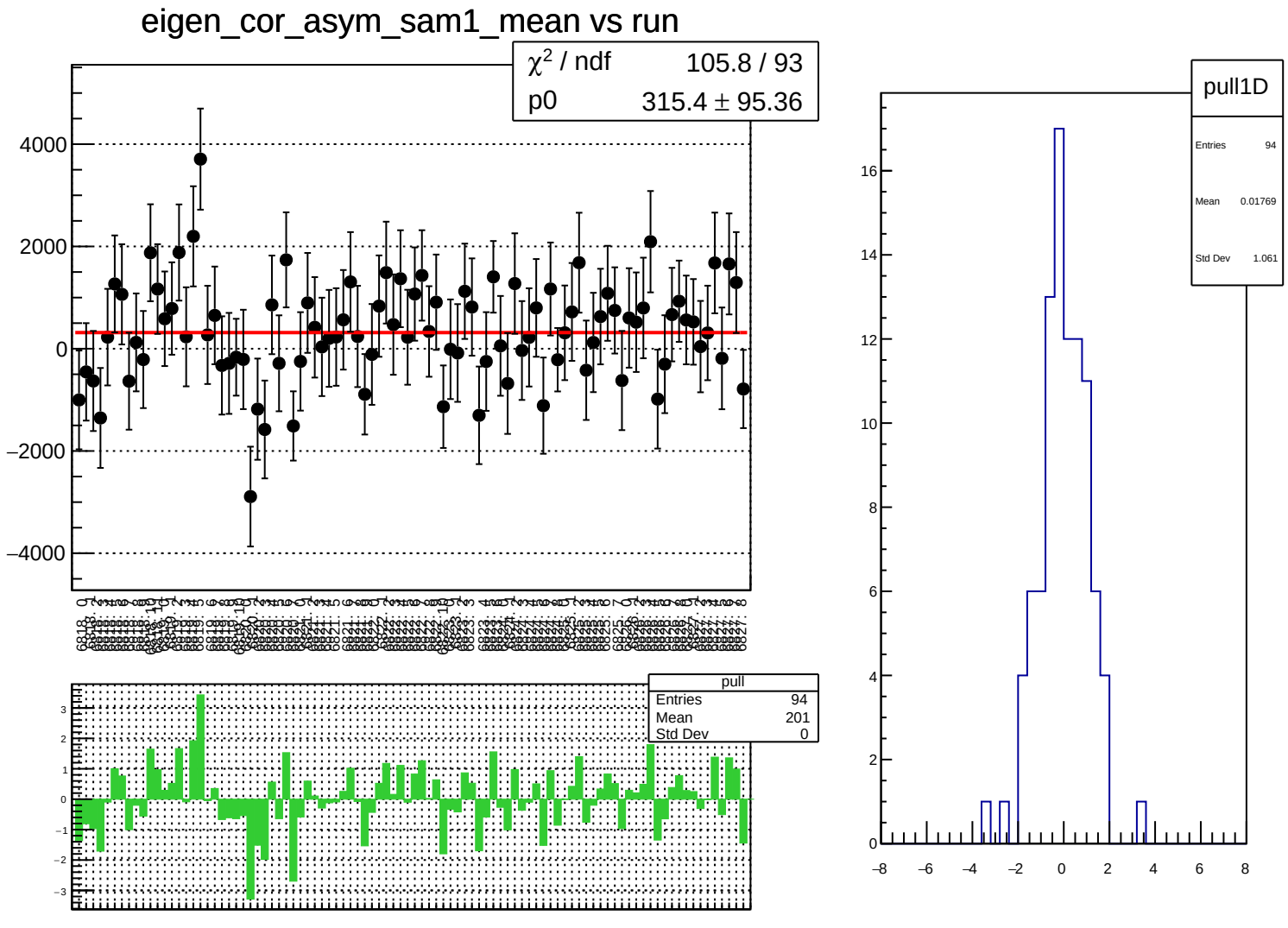

cor_asym_sam1_mean vs run
χ² / ndf 105.8 / 93
p0 315.4 ± 95.36
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 201
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01769
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

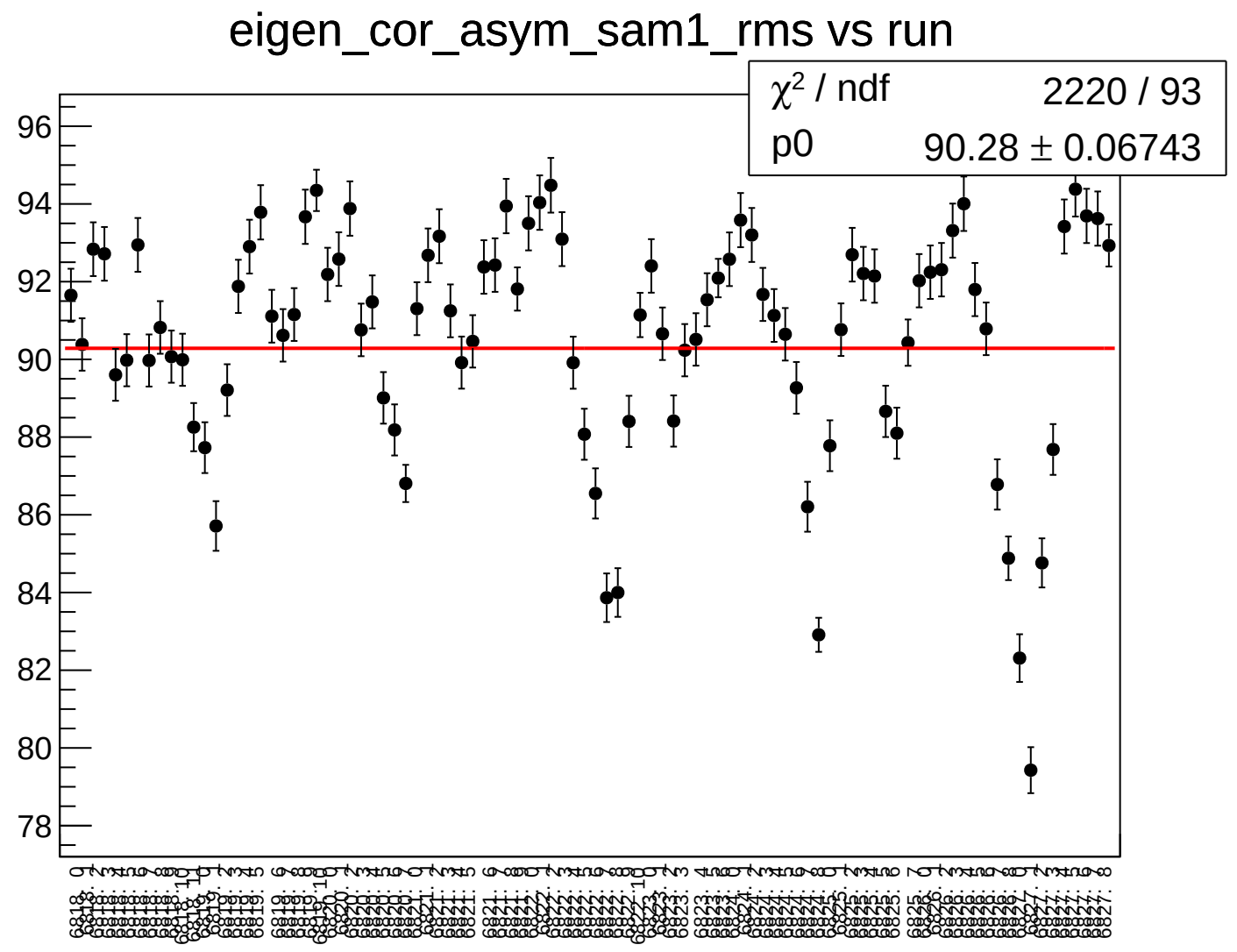

cor_asym_sam1_rms vs run
χ² / ndf 2220 / 93
p0 90.28 ± 0.06743
96
94
92
90
88
86
84
82
80
78

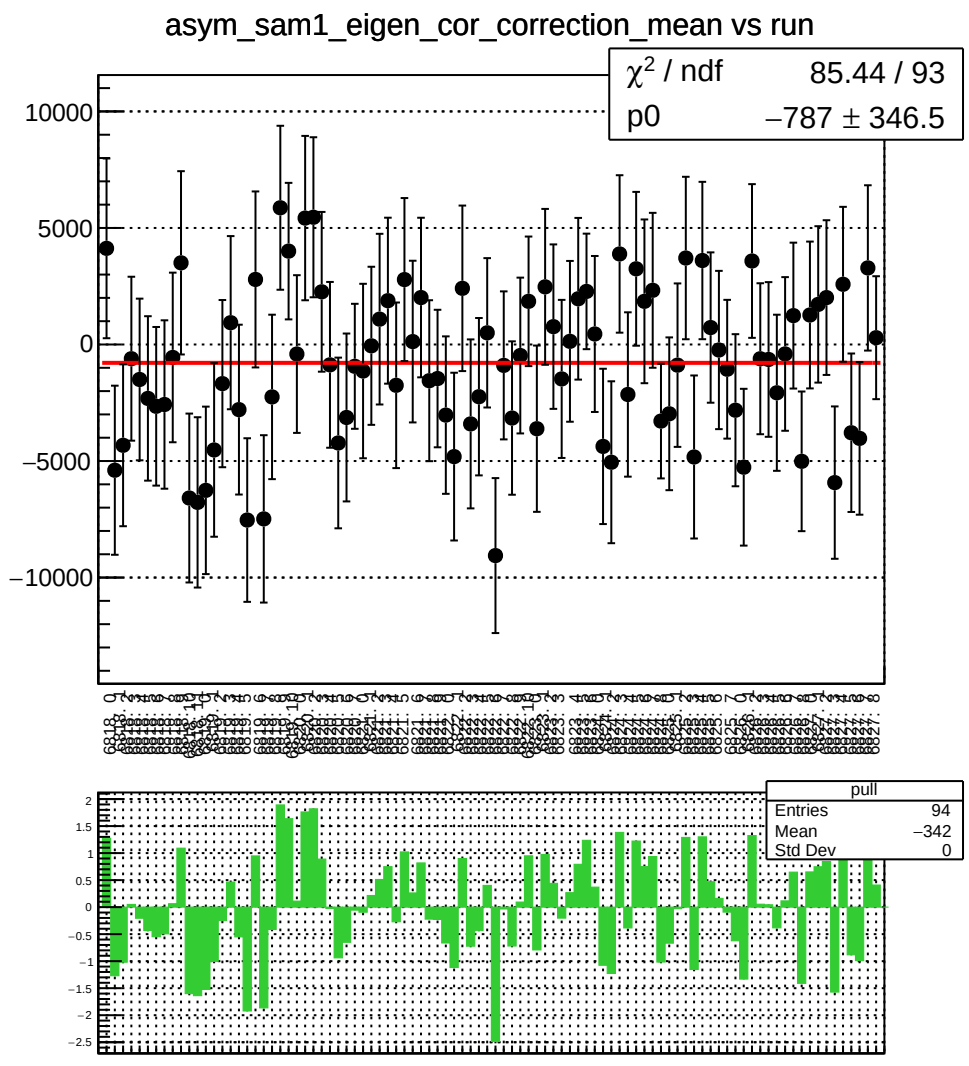

asym_sam1_cor_correction_mean vs run
χ² / ndf 85.44 / 93
p0 −787 ± 346.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −342
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

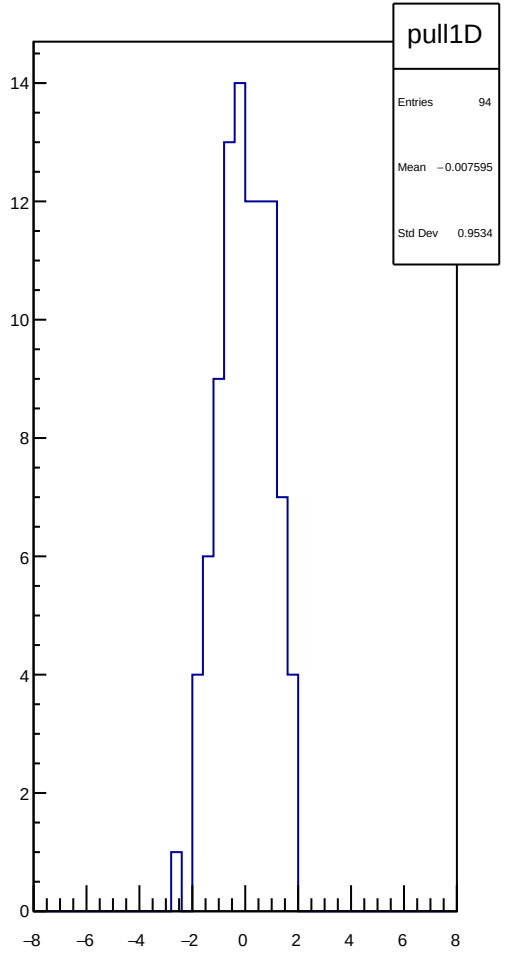

pull1D
Entries 94
Mean −0.007595
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

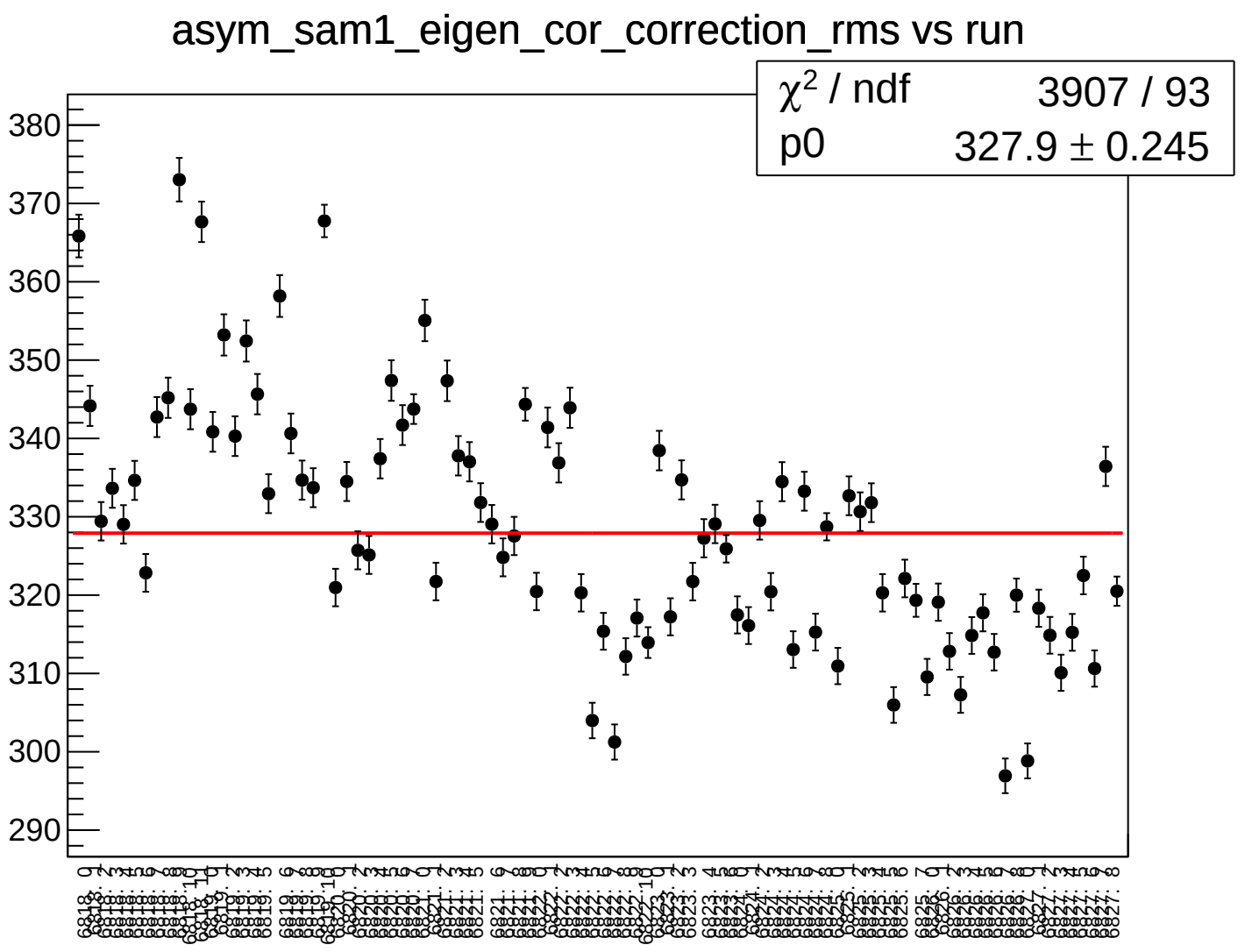

asym_sam1_cor_correction_rms vs run
χ² / ndf 3907 / 93
p0 327.9 ± 0.245
380
370
360
350
340
330
320
310
300
290

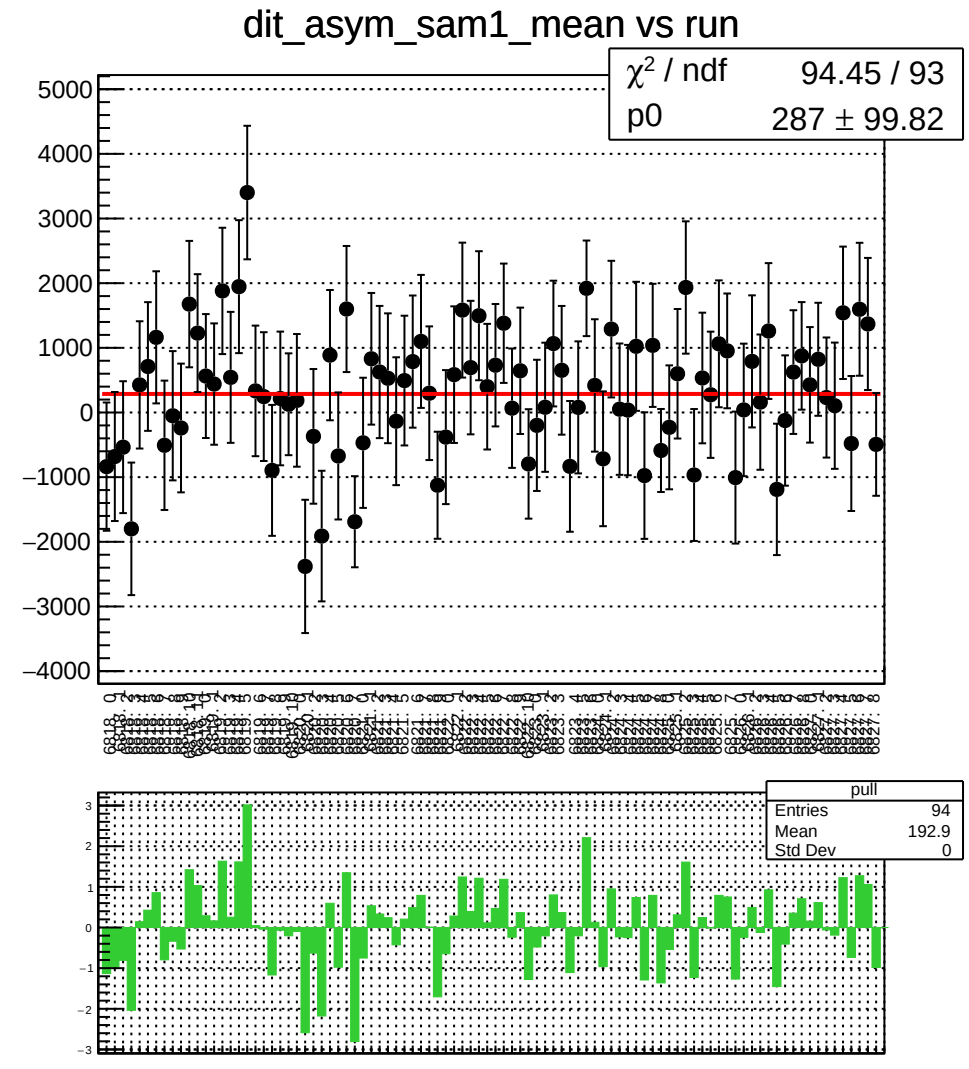

eigen_cor_asym_sam1_mean vs run
χ² / ndf 105.8 / 93
p0 315.4 ± 95.36
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 201
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01769
Std Dev 1.061
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

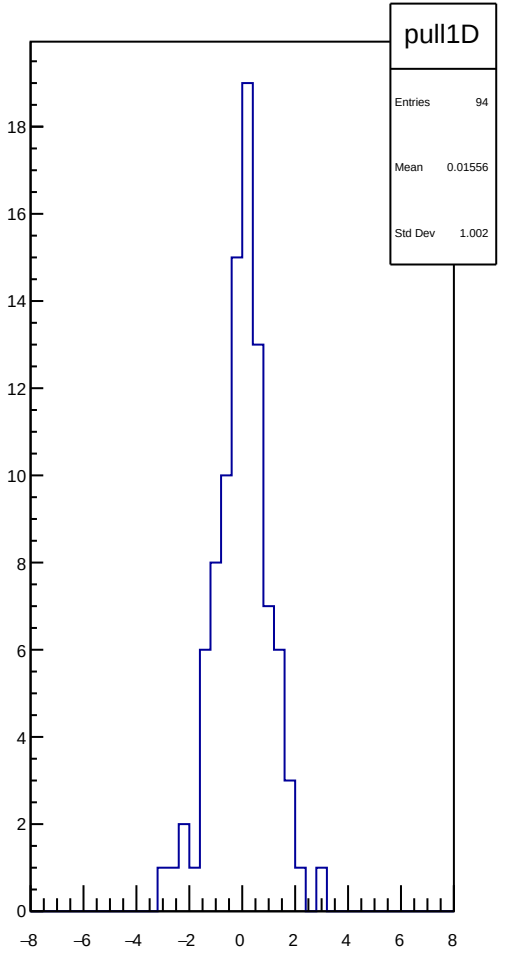

eigen_cor_asym_sam1_rms vs run
χ² / ndf 2220 / 93
p0 90.28 ± 0.06743
96
94
92
90
88
86
84
82
80
78

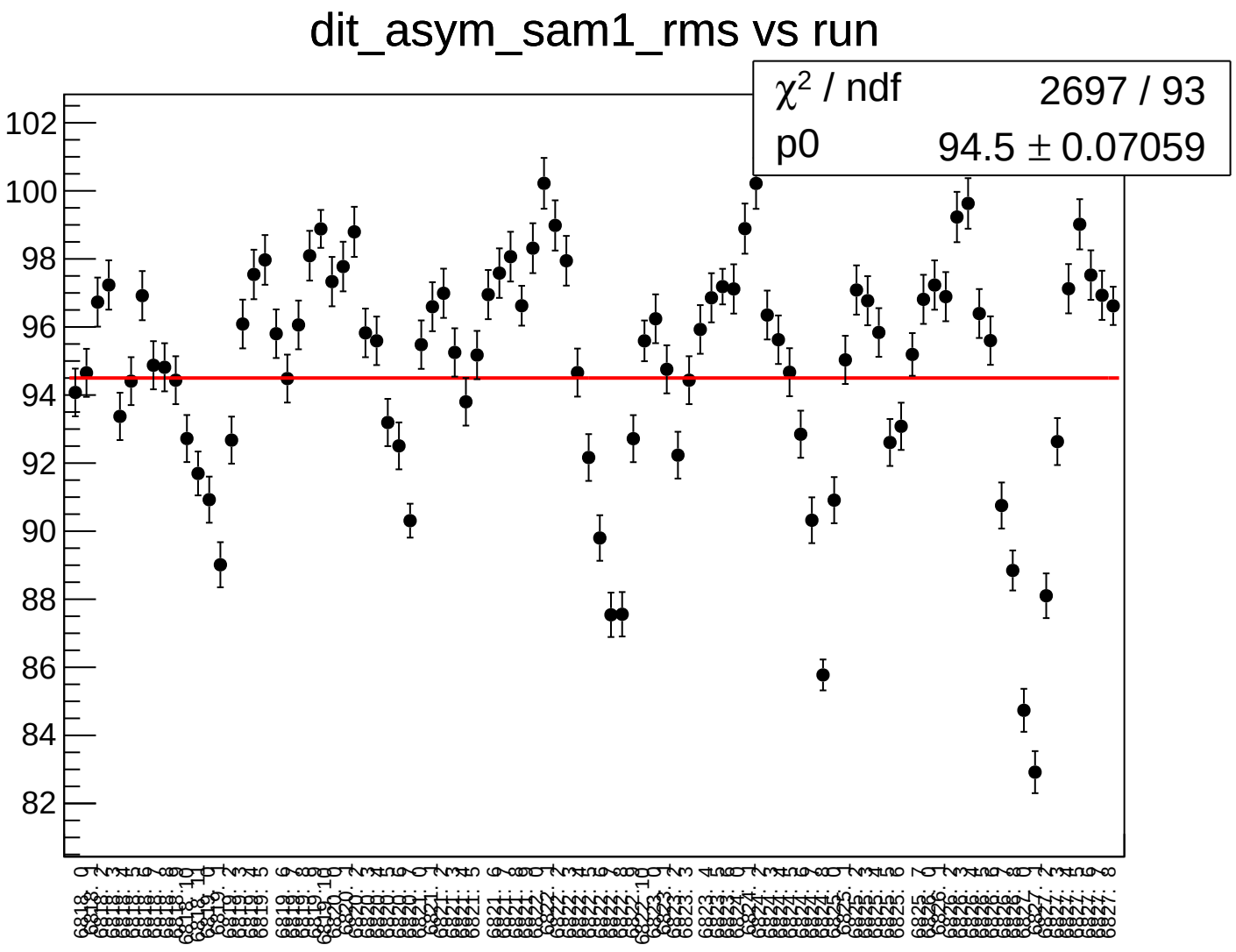

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 85.44 / 93
p0 −787 ± 346.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −342
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

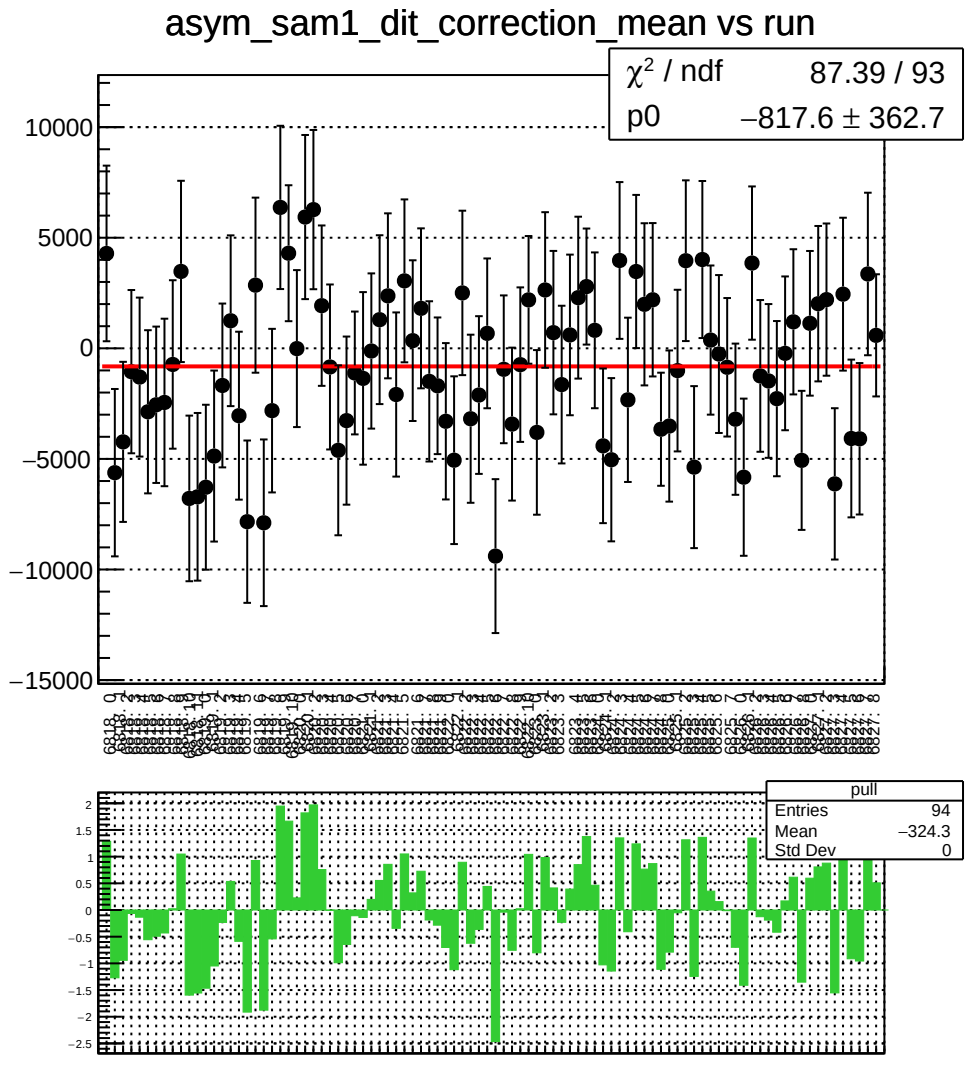

pull1D
Entries 94
Mean −0.007595
Std Dev 0.9534
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

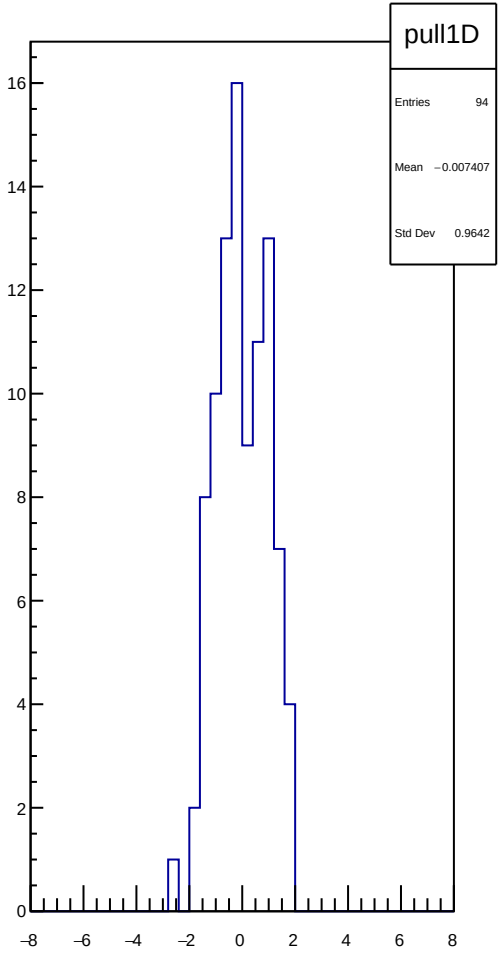

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3907 / 93
p0 327.9 ± 0.245
380
370
360
350
340
330
320
310
300
290

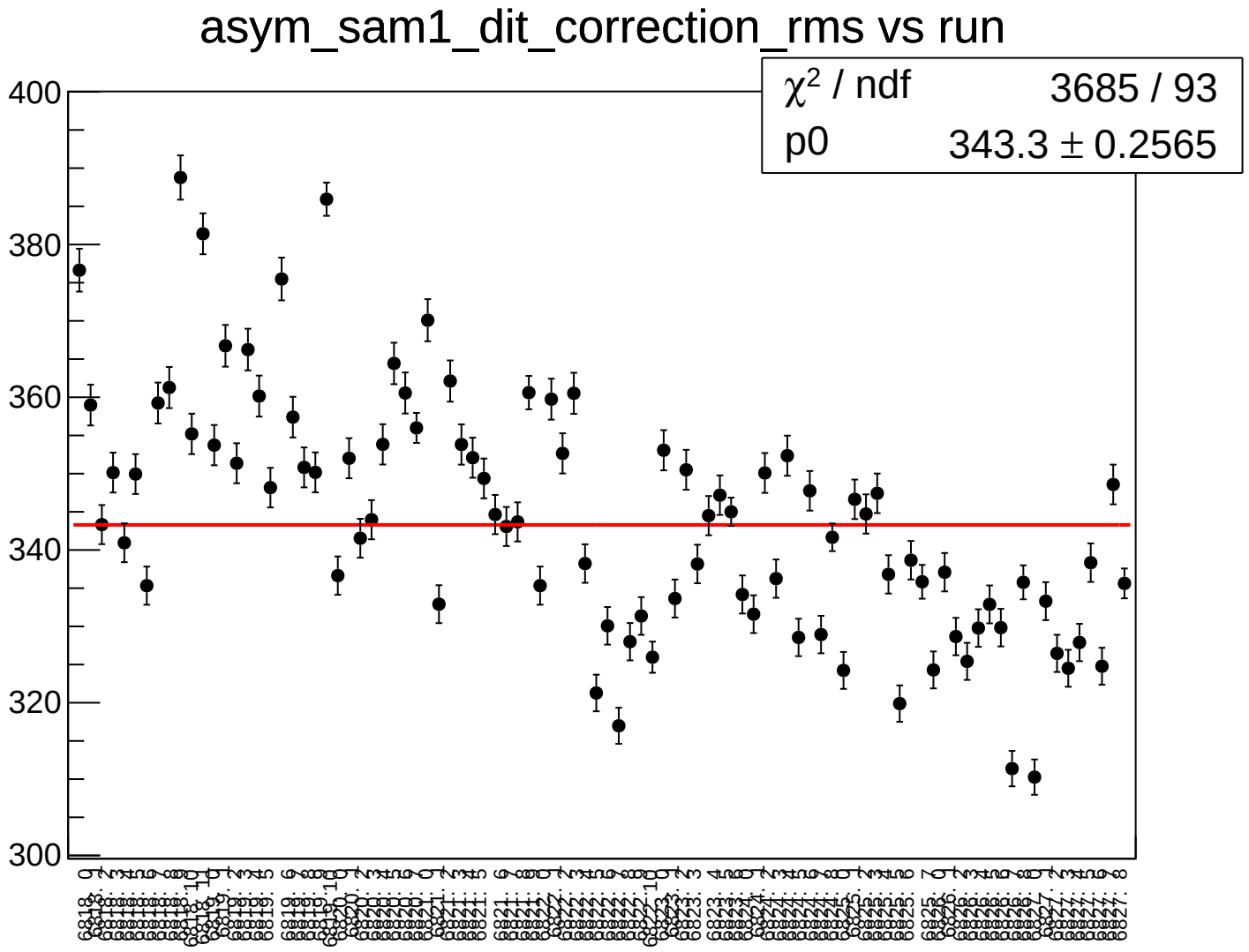

dit_asym_sam1_mean vs run
χ² / ndf 94.45 / 93
p0 287 ± 99.82
pull
Entries 94
Mean 192.9
Std Dev 0

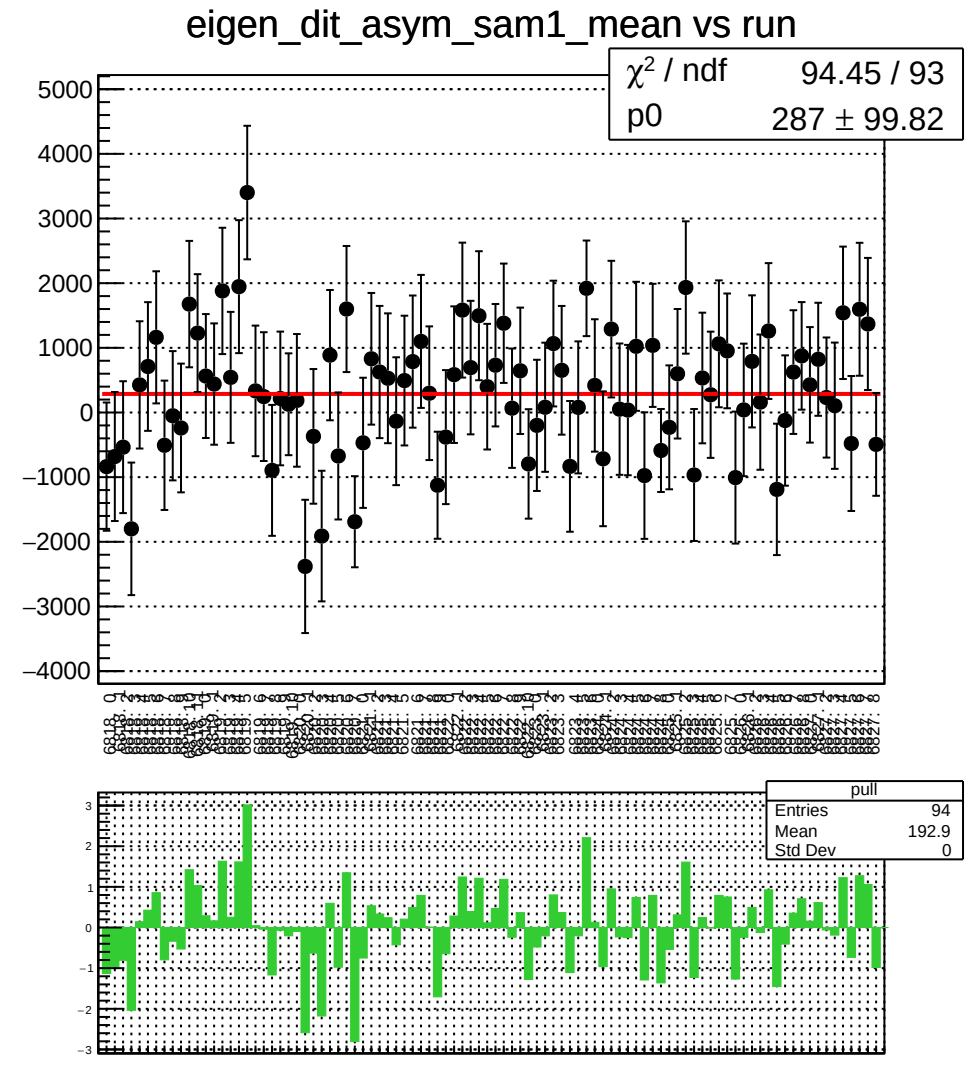

pull1D
Entries 94
Mean 0.01556
Std Dev 1.002

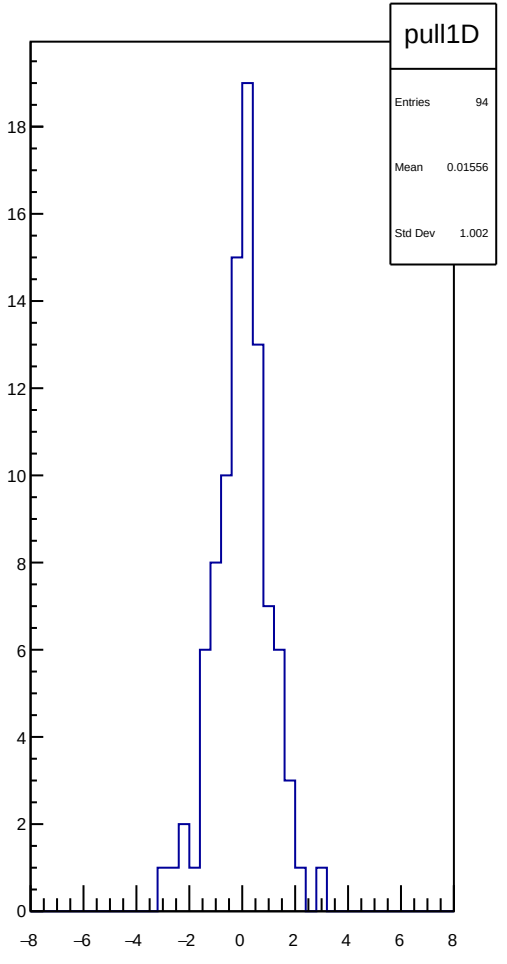

dit_asym_sam1_rms vs run
χ² / ndf 2697 / 93
p0 94.5 ± 0.07059
102
100
98
96
94
92
90
88
86
84
82

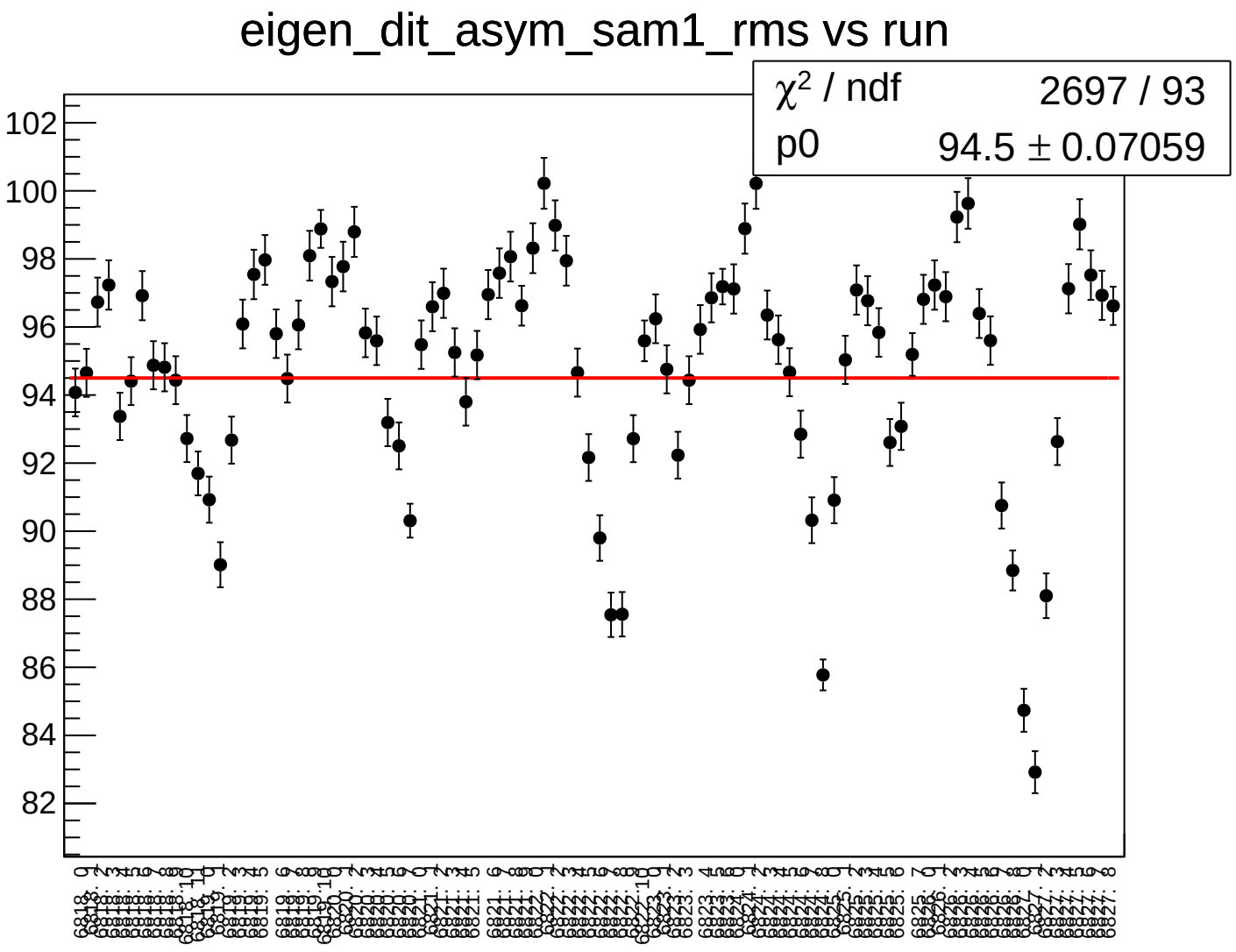

asym_sam1_dit_correction_mean vs run
χ² / ndf 87.39 / 93
p0 −817.6 ± 362.7
pull
Entries 94
Mean −324.3
Std Dev 0

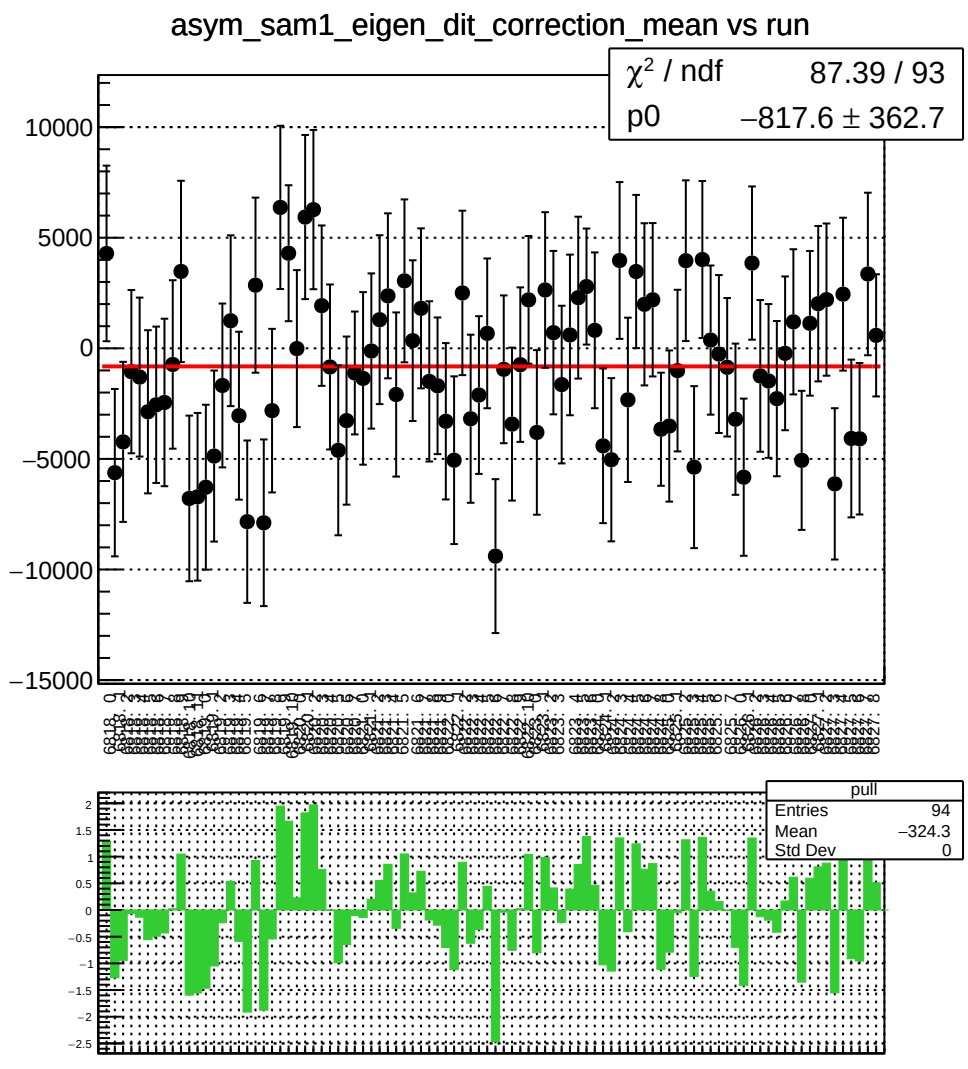

pull1D
Entries 94
Mean −0.007407
Std Dev 0.9642

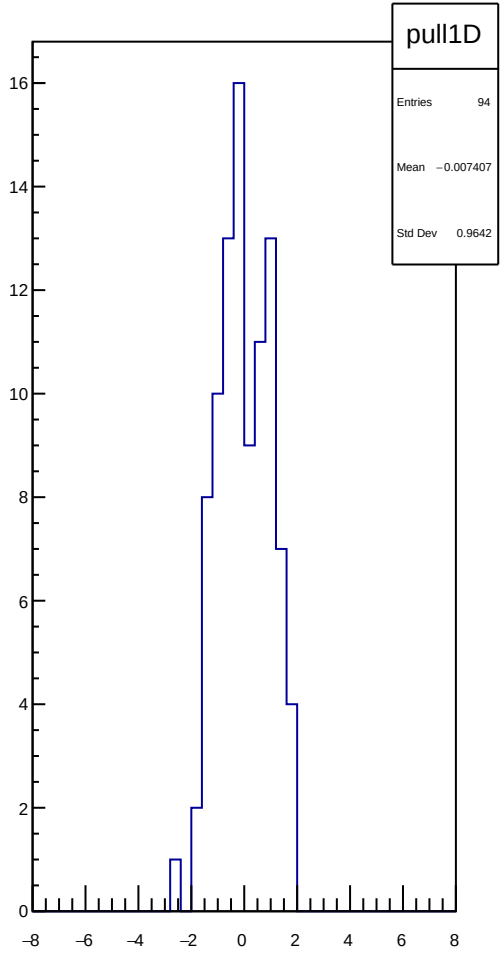

asym_sam1_dit_correction_rms vs run
χ² / ndf 3685 / 93
p0 343.3 ± 0.2565
400
380
360
340
320
300

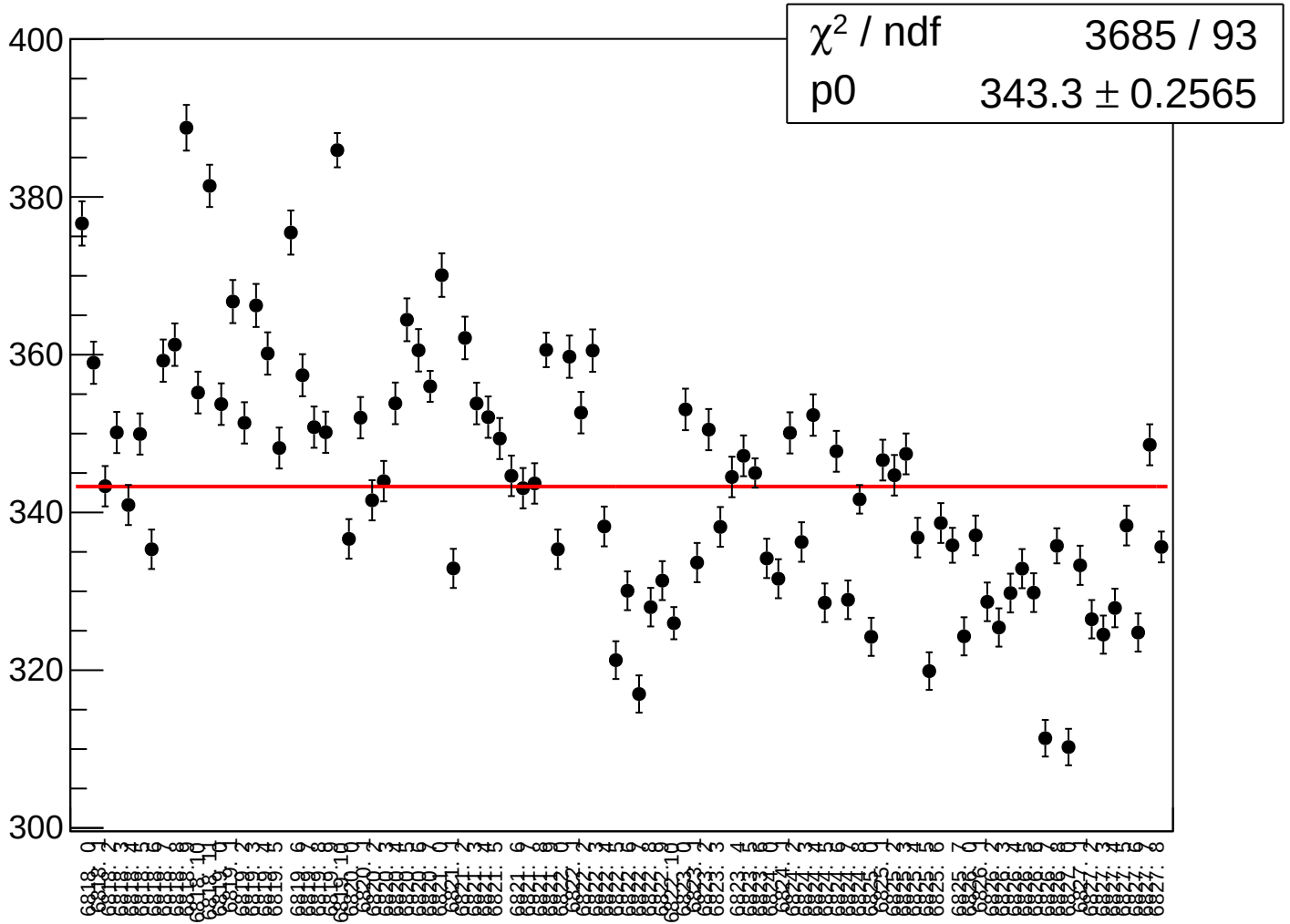

eigen_dit_asym_sam1_mean vs run
χ² / ndf 94.45 / 93
p0 287 ± 99.82
pull
Entries 94
Mean 192.9
Std Dev 0

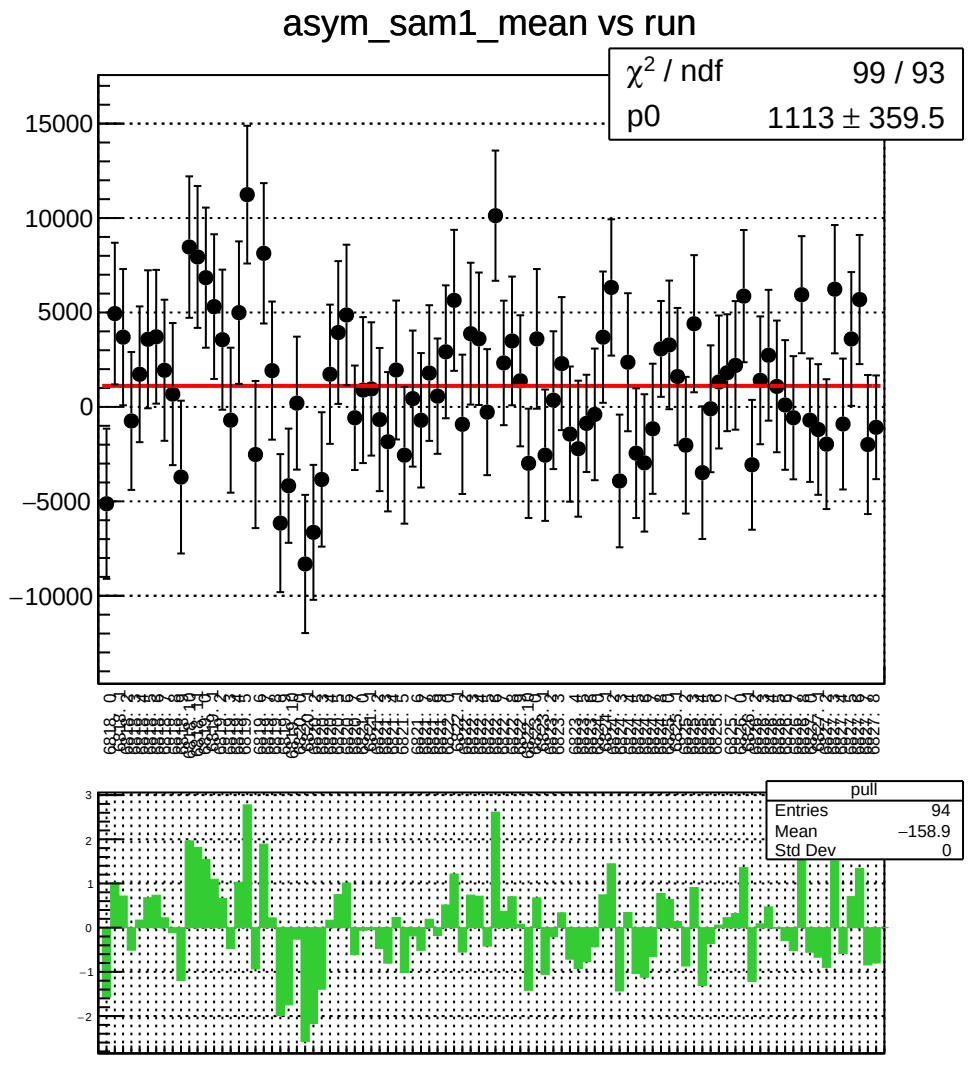

pull1D
Entries 94
Mean 0.01556
Std Dev 1.002

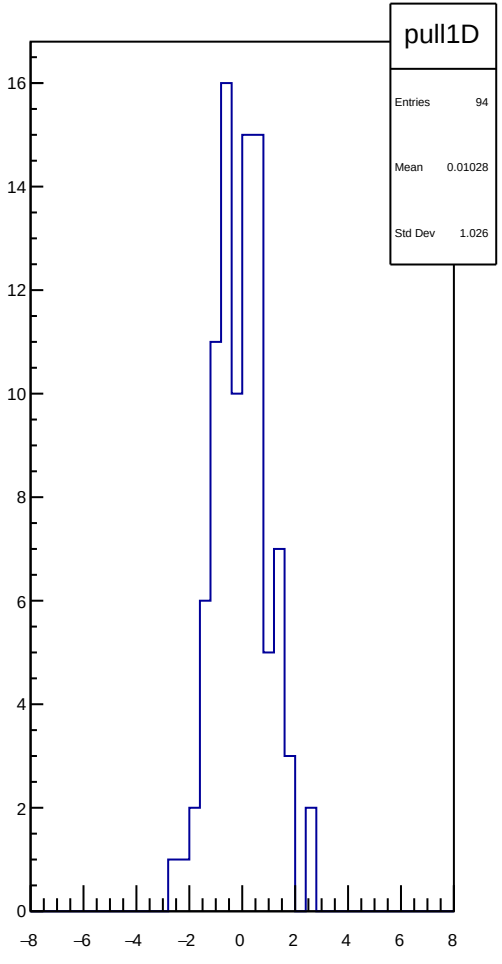

eigen_dit_asym_sam1_rms vs run
χ² / ndf 2697 / 93
p0 94.5 ± 0.07059
102
100
98
96
94
92
90
88
86
84
82

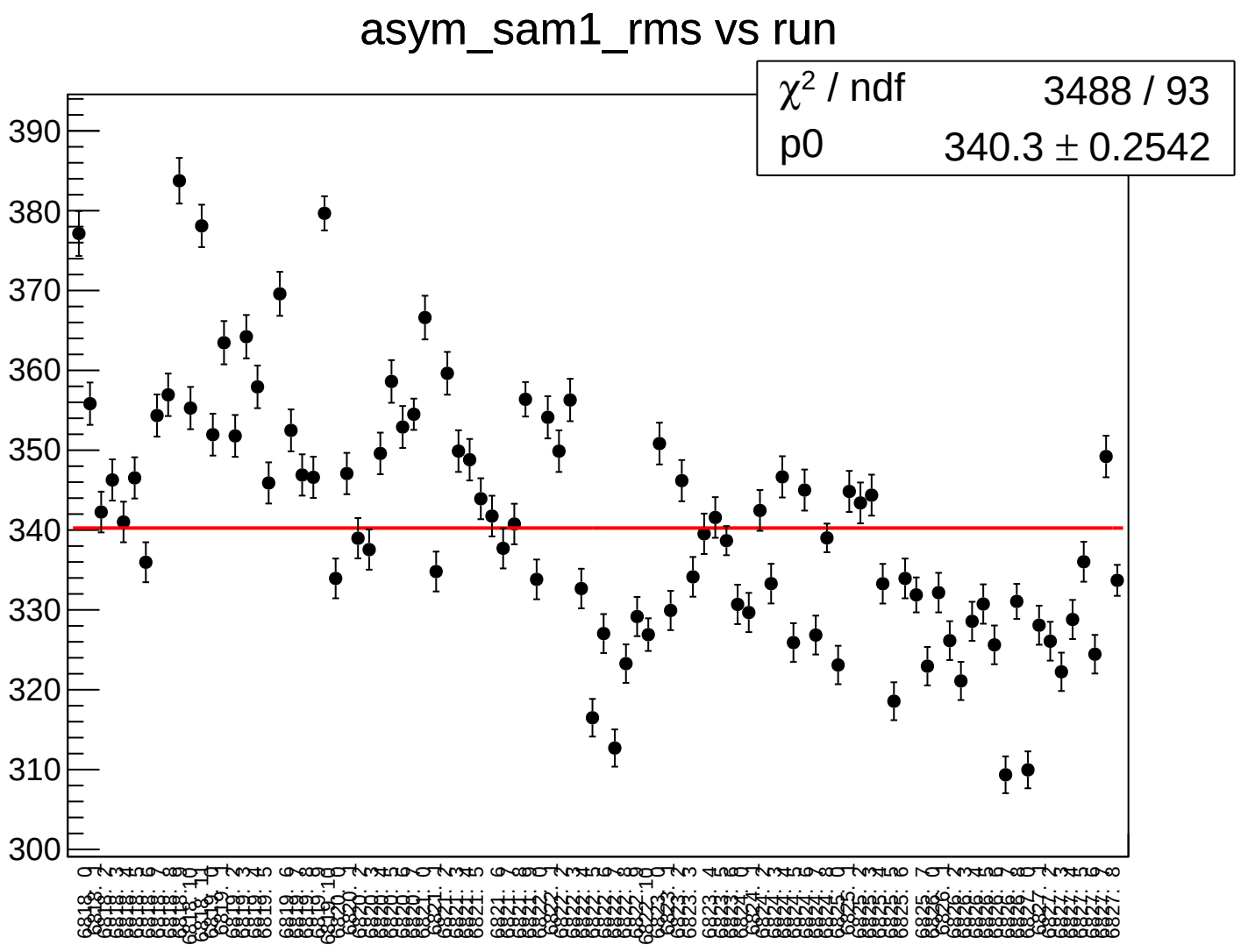

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 87.39 / 93
p0 −817.6 ± 362.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −324.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

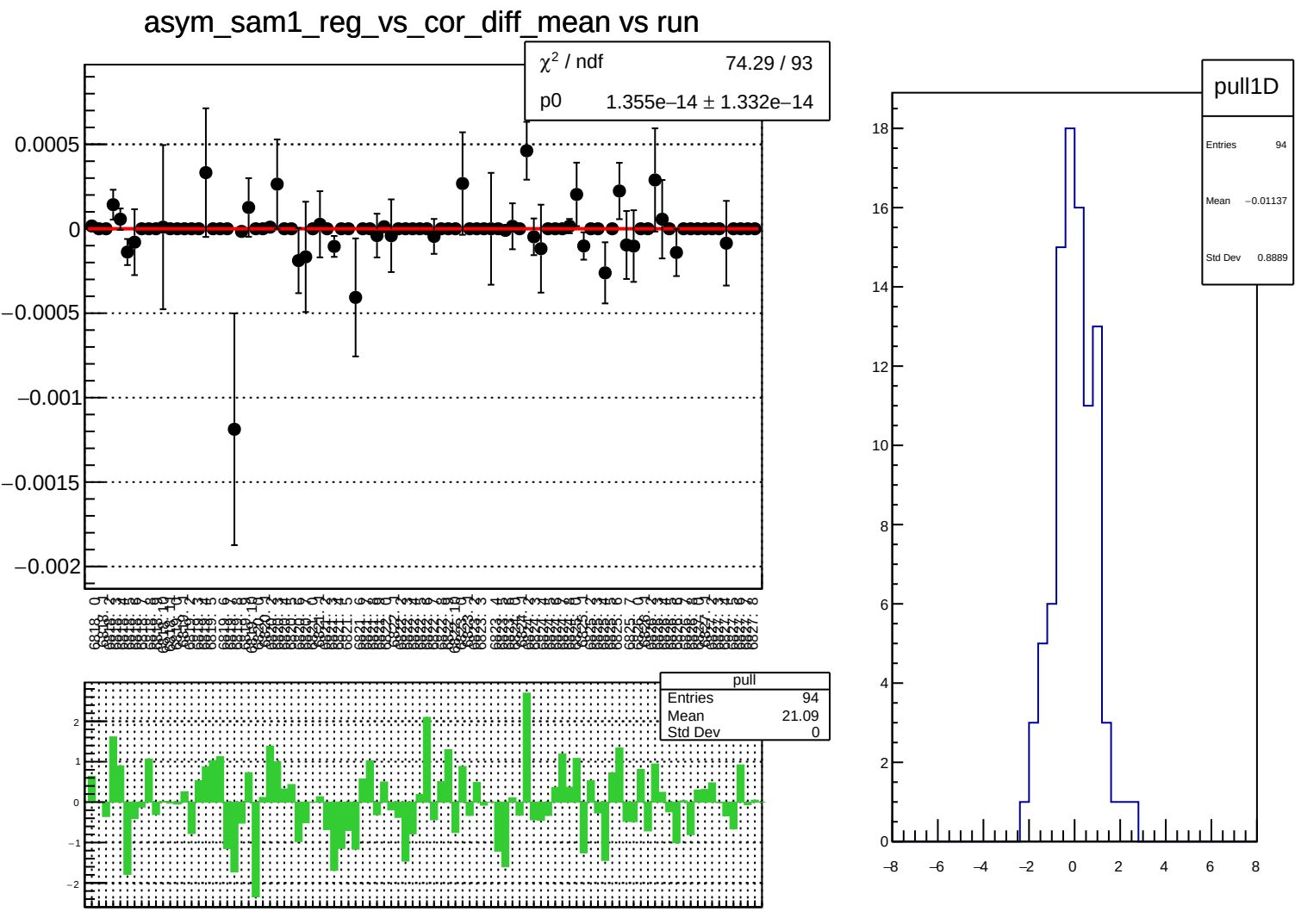

pull1D
Entries 94
Mean −0.007407
Std Dev 0.9642
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

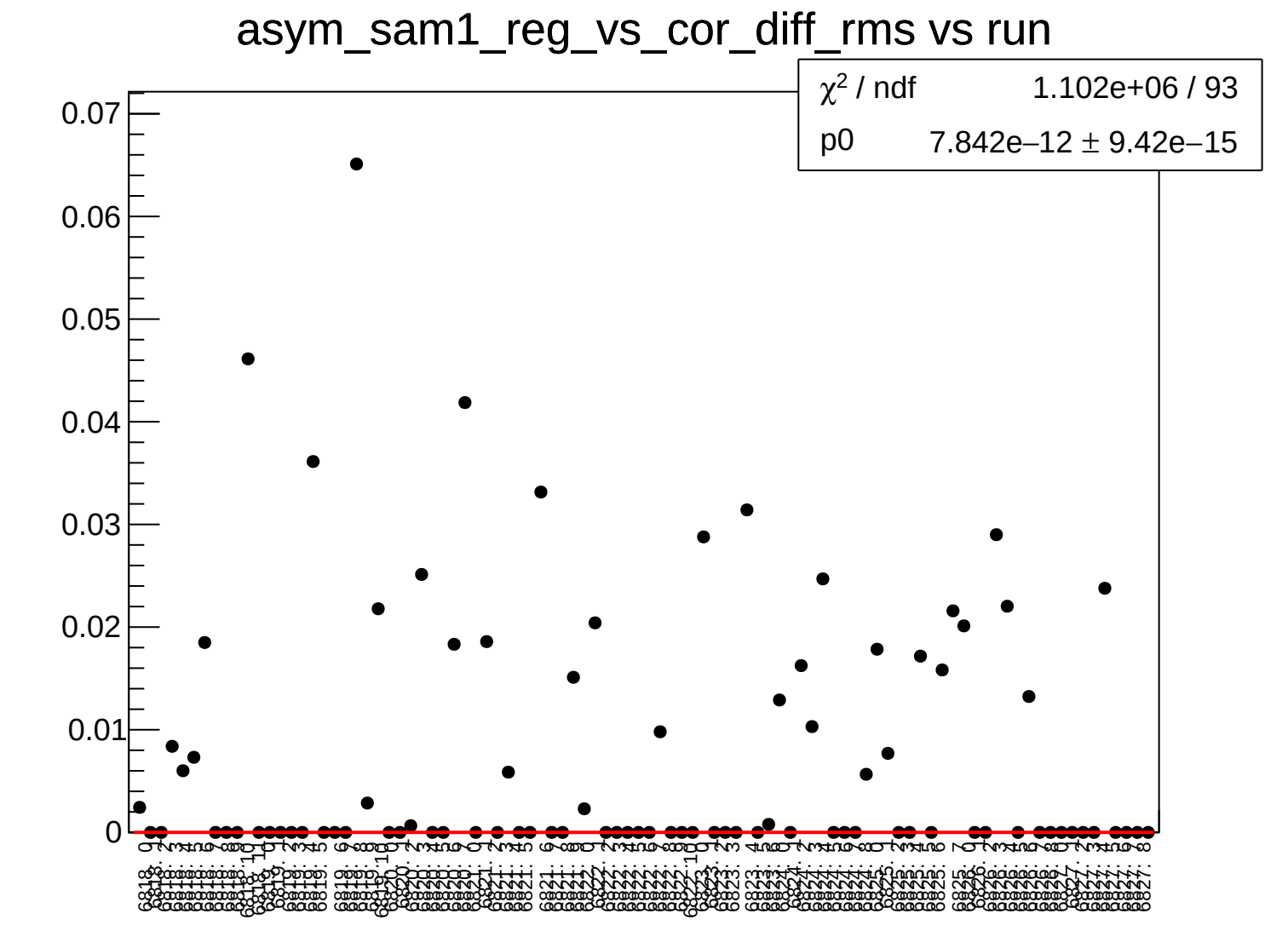

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3685 / 93
p0 343.3 ± 0.2565
400
380
360
340
320
300

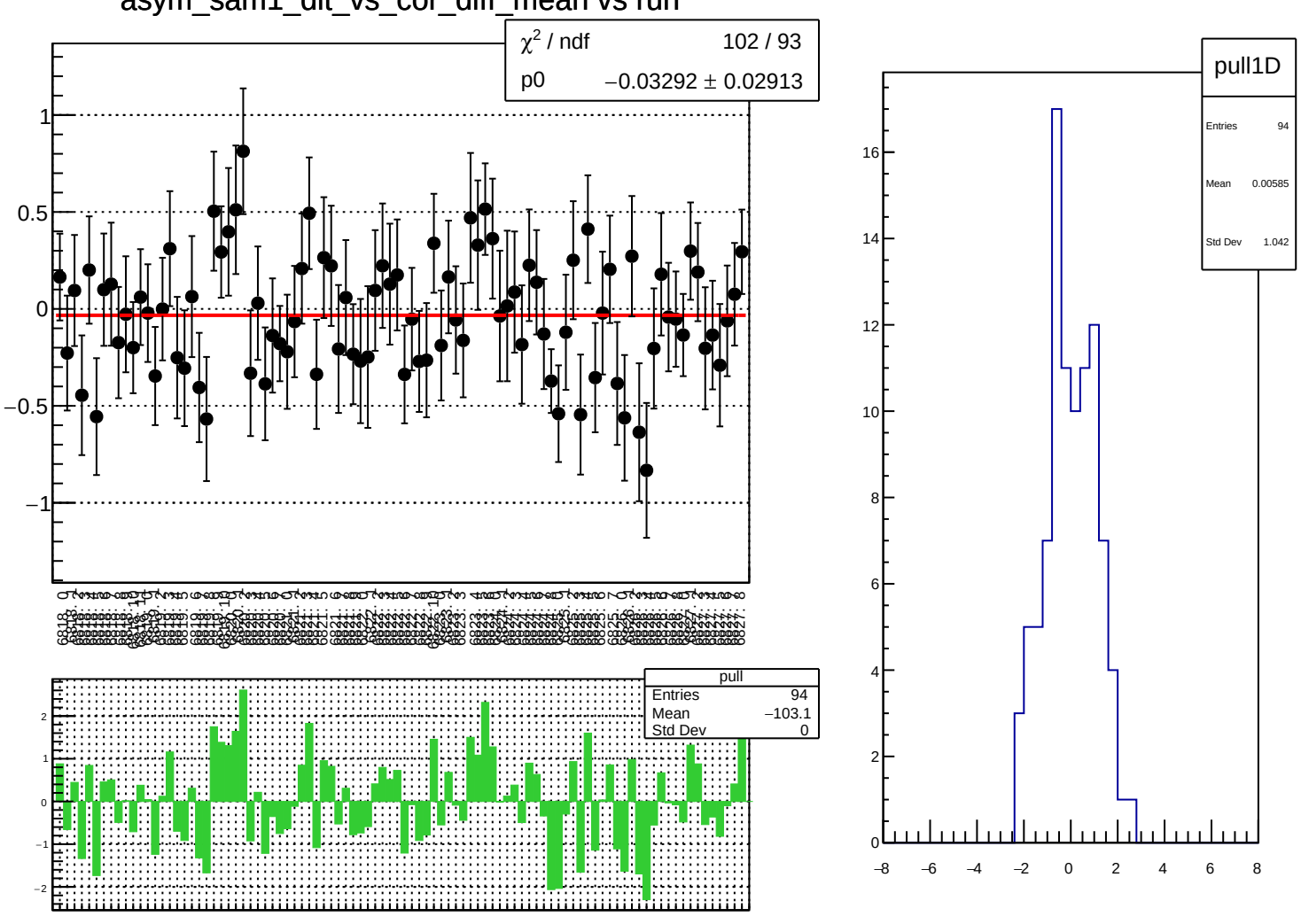

asym_sam1_mean vs run
χ² / ndf 99 / 93
p0 1113 ± 359.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −158.9
Std Dev 0
3
2
1
0
−1
−2

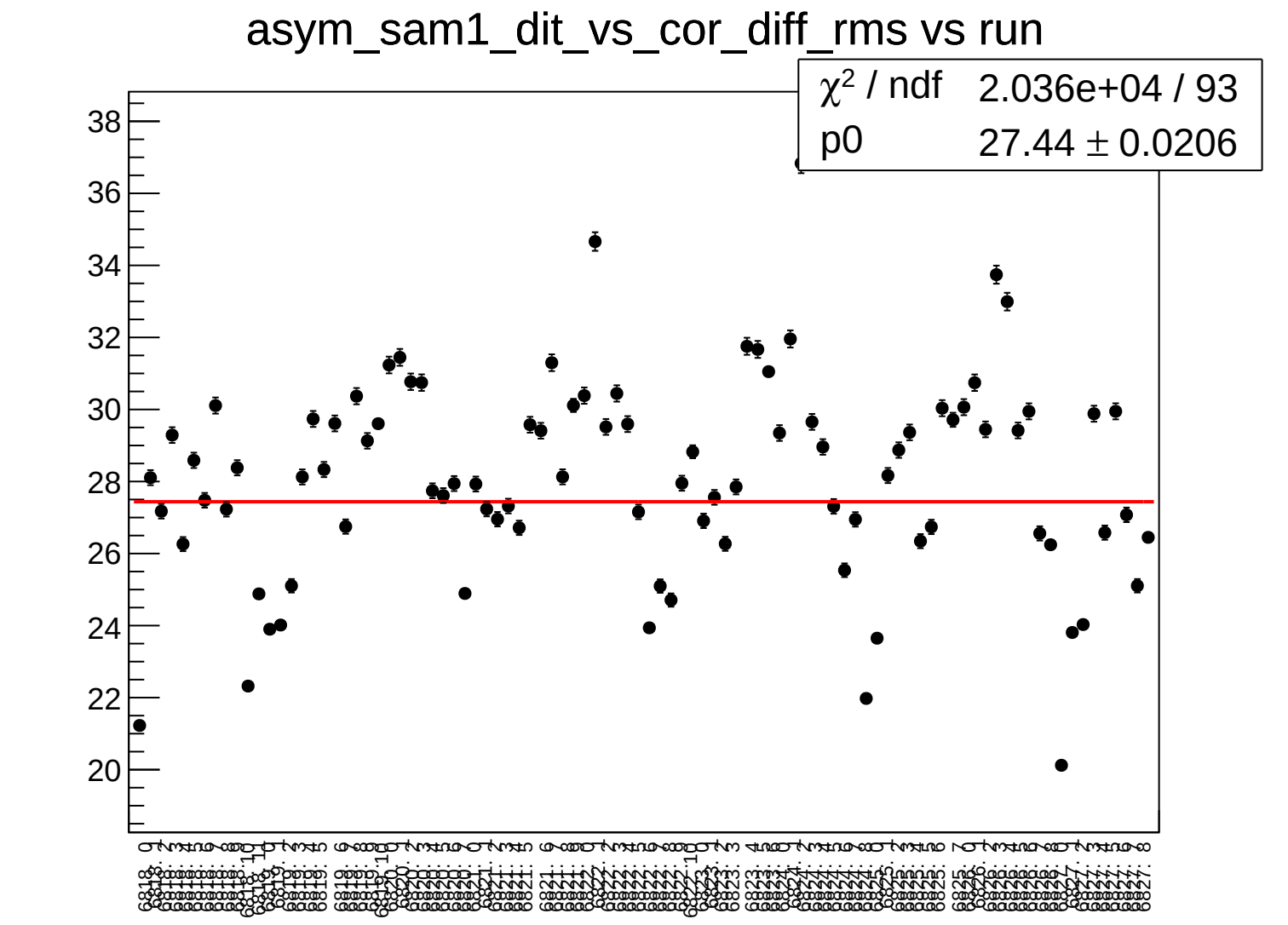

pull1D
Entries 94
Mean 0.01028
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

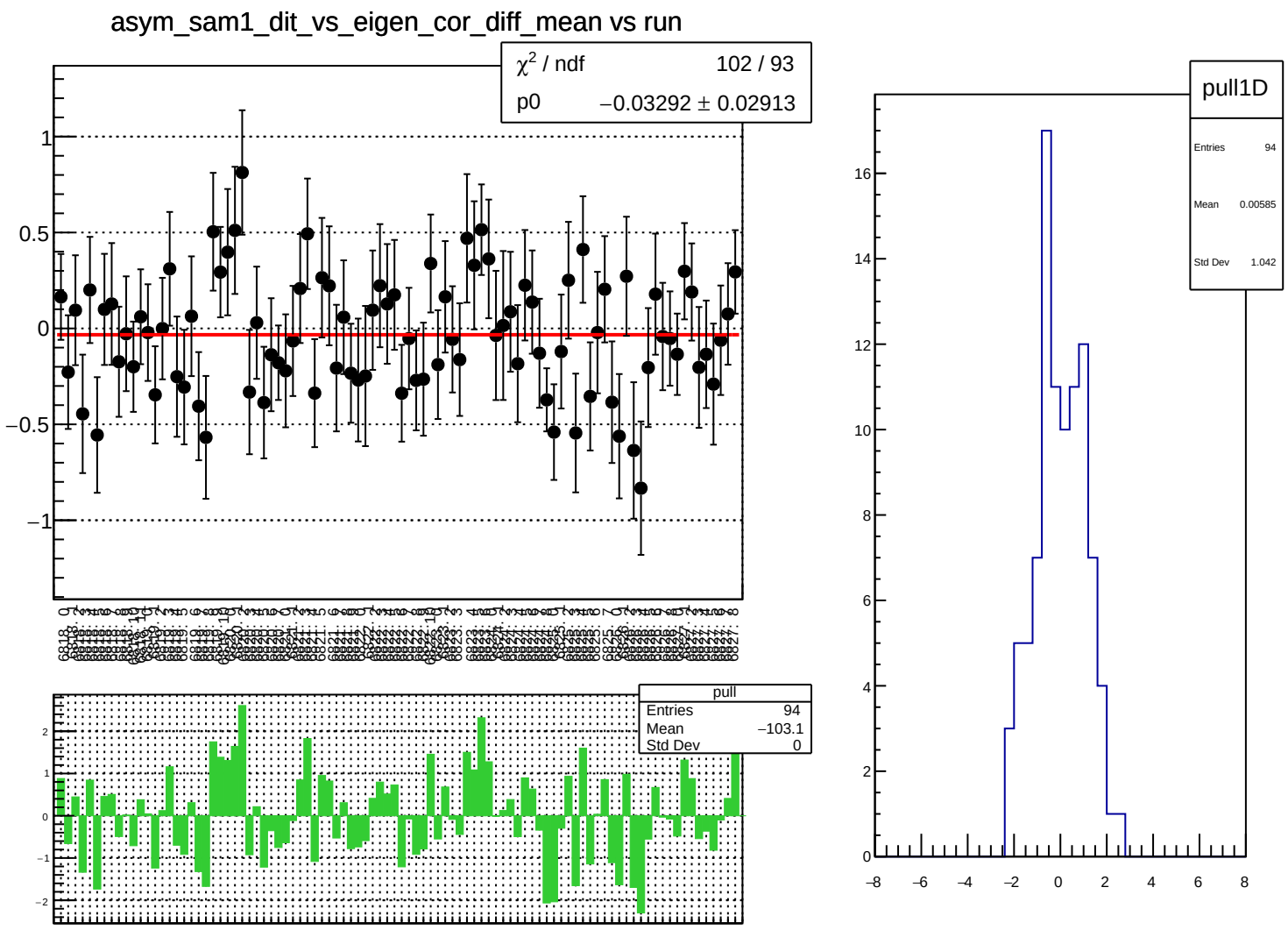

asym_sam1_rms vs run
χ² / ndf 3488 / 93
p0 340.3 ± 0.2542
390
380
370
360
350
340
330
320
310
300

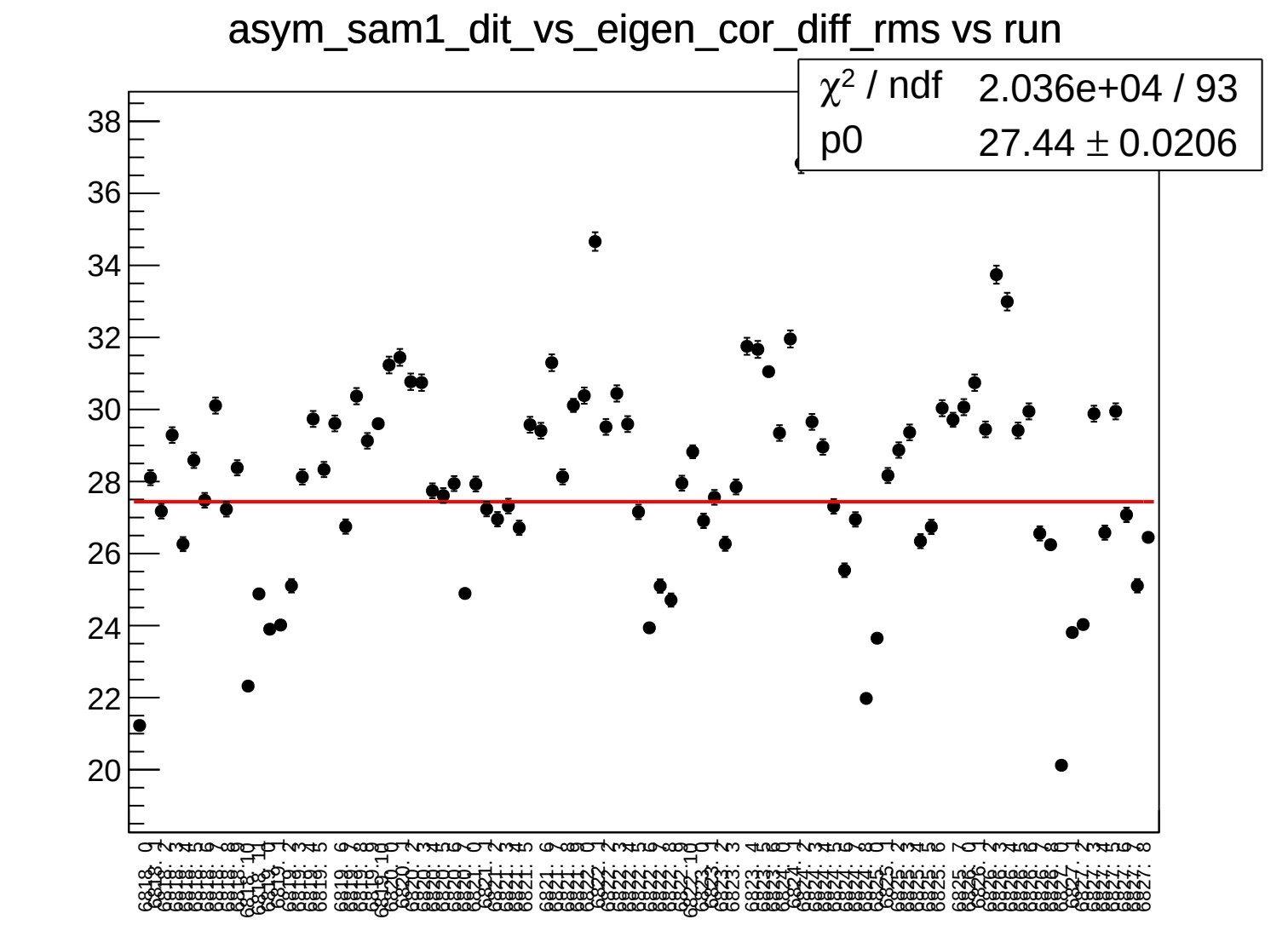

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 74.29 / 93
p0 1.355e−14 ± 1.332e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 21.09
Std Dev 0
pull1D
Entries 94
Mean −0.01137
Std Dev 0.8889

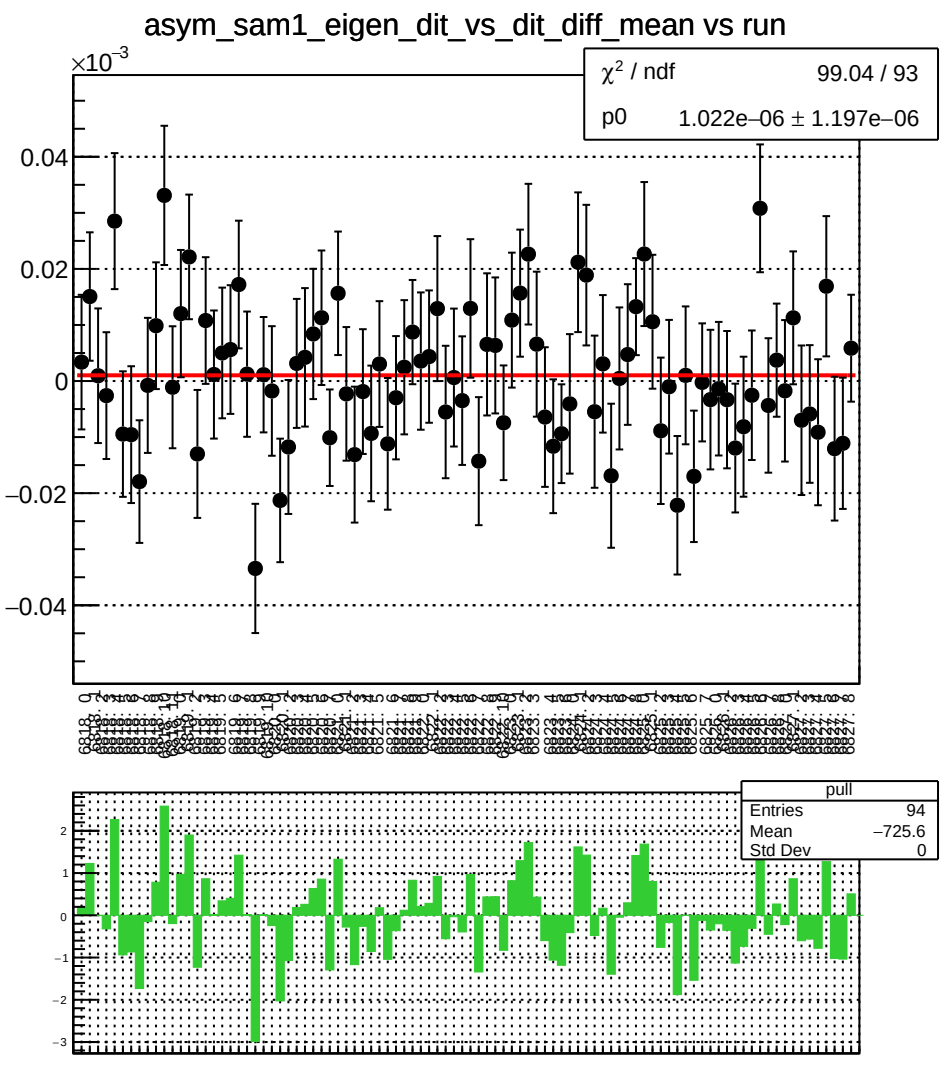

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.102e+06 / 93
p0 7.842e−12 ± 9.42e−15
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

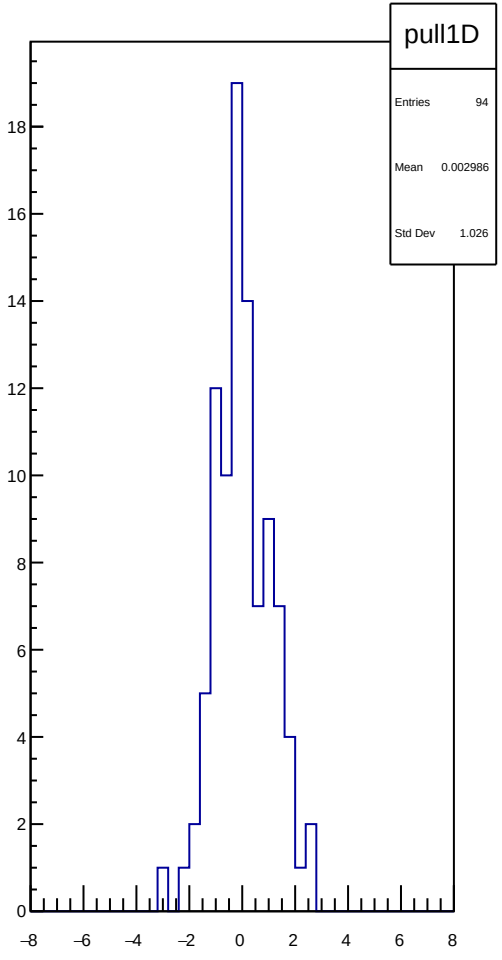

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 93
p0 −0.03292 ± 0.02913
pull
Entries 94
Mean −103.1
Std Dev 0
pull1D
Entries 94
Mean 0.00585
Std Dev 1.042

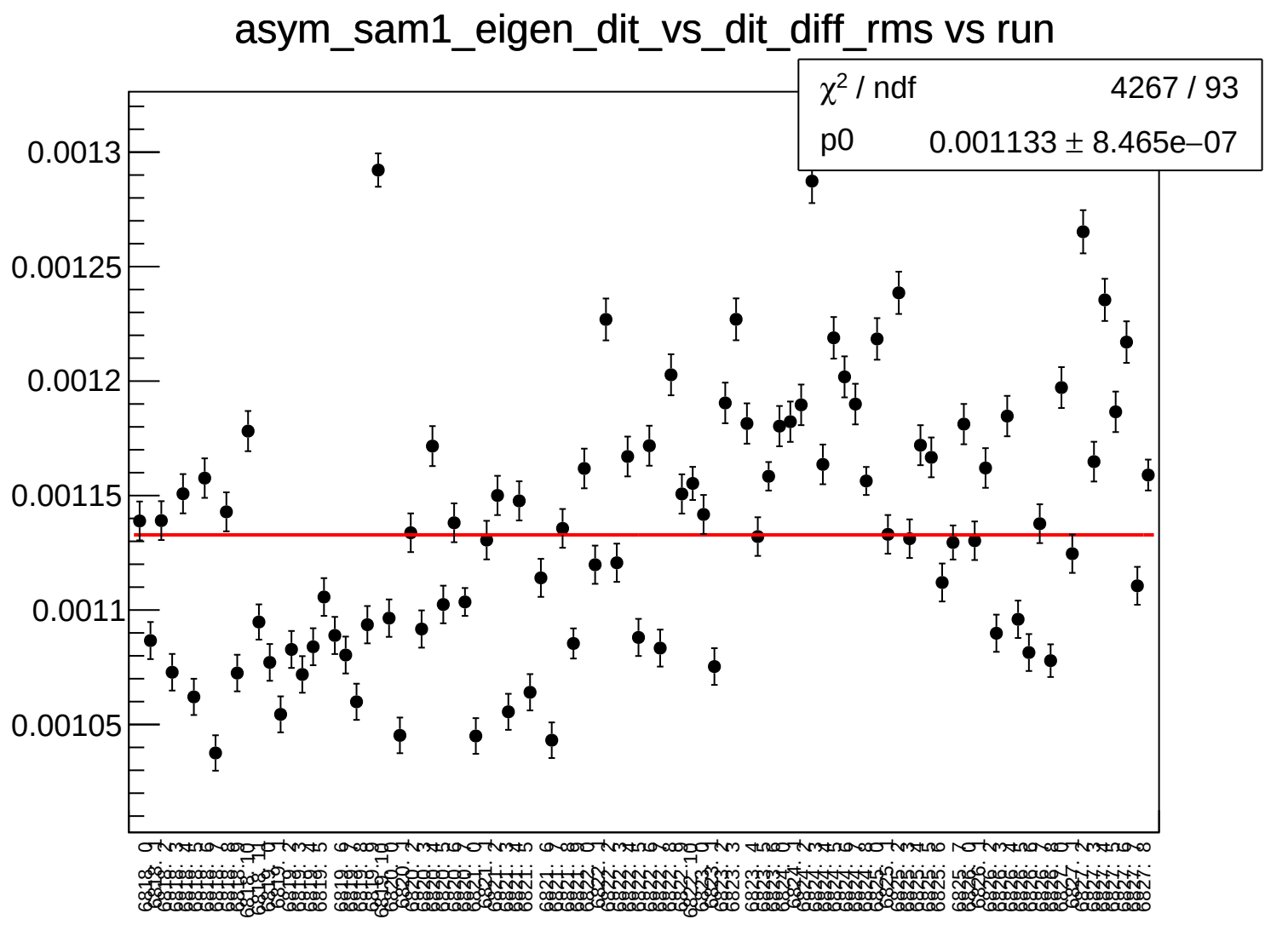

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+04 / 93
p0 27.44 ± 0.0206
38
36
34
32
30
28
26
24
22
20

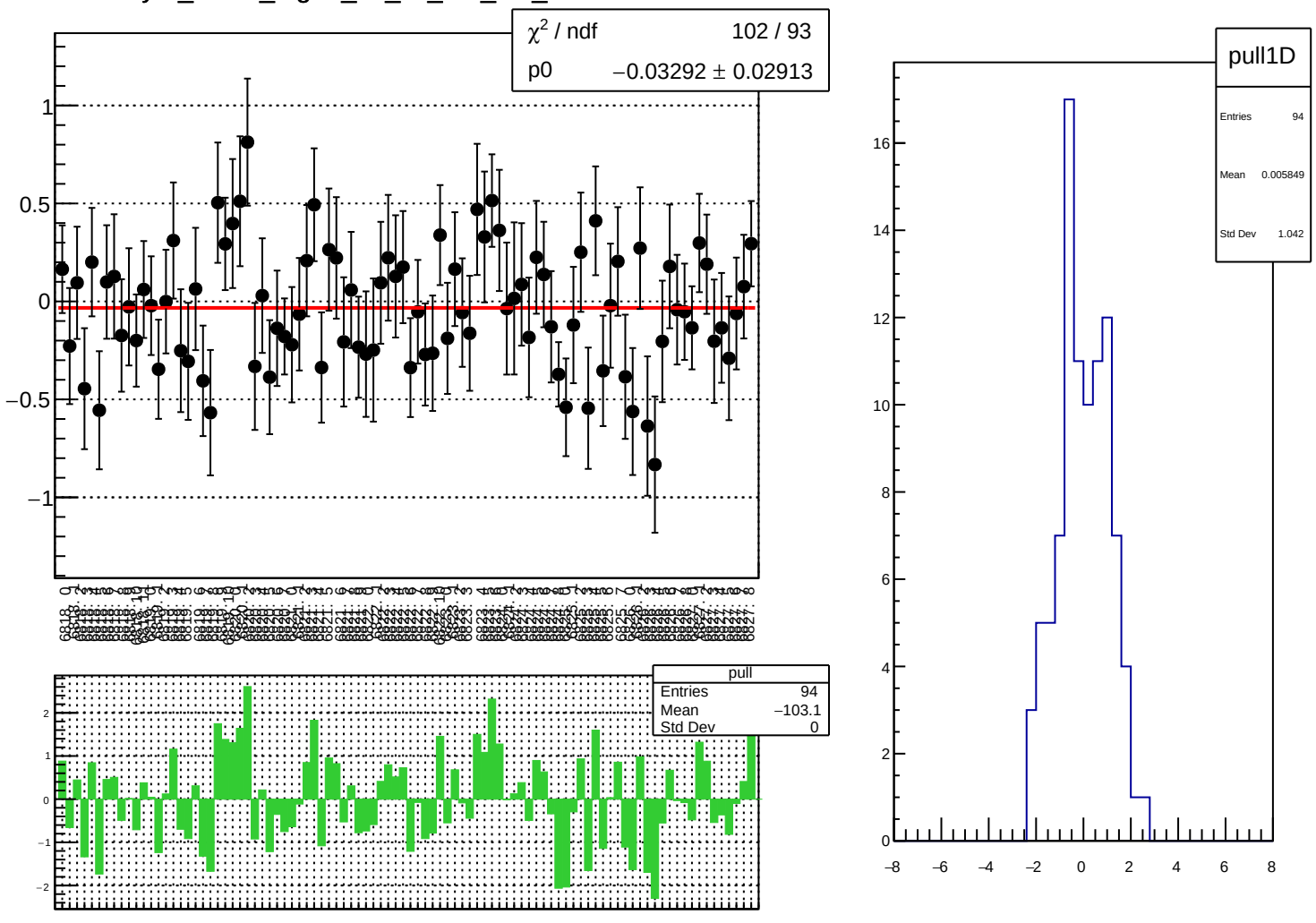

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 93
p0 −0.03292 ± 0.02913
pull
Entries 94
Mean −103.1
Std Dev 0
pull1D
Entries 94
Mean 0.00585
Std Dev 1.042

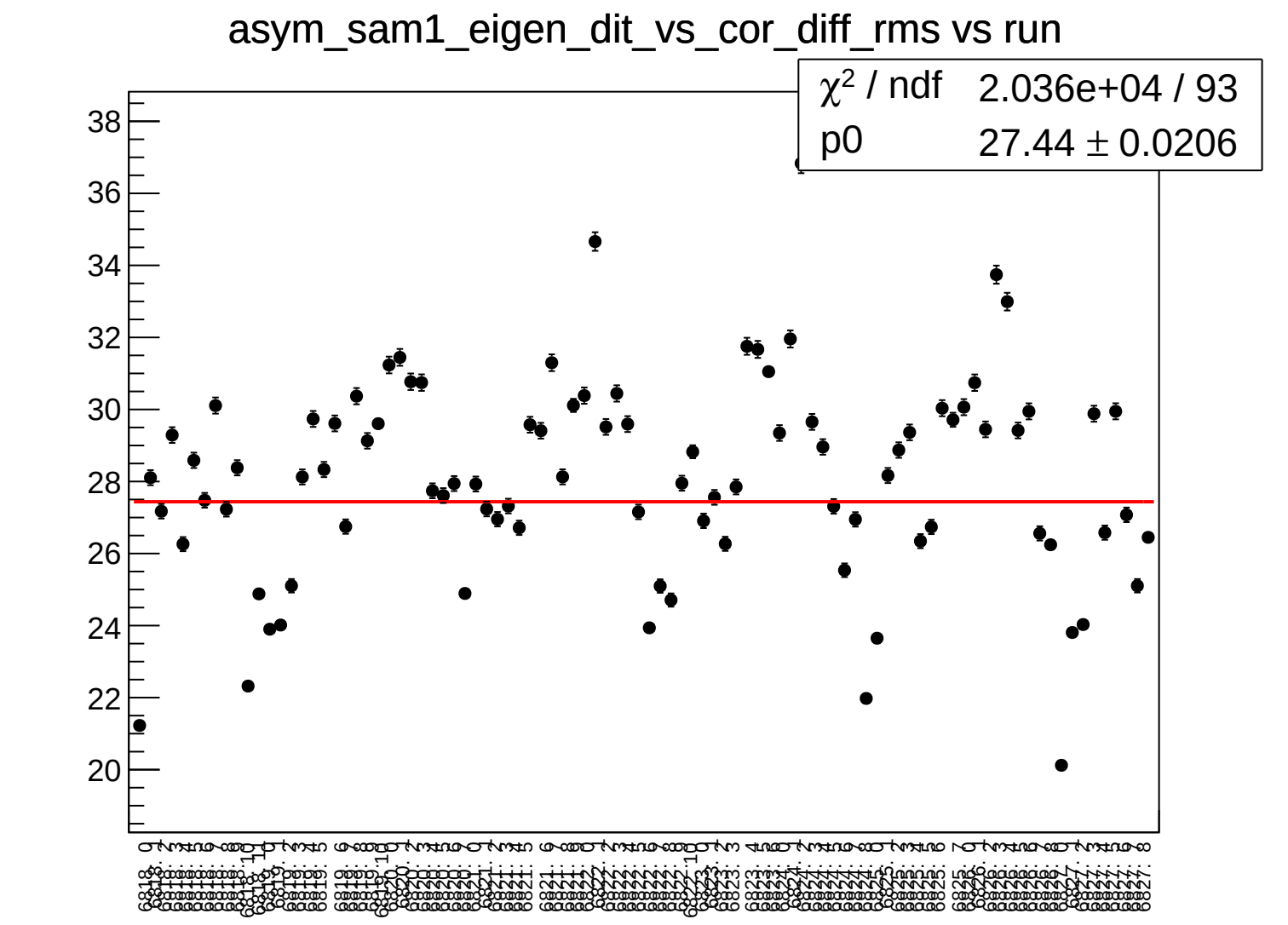

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+04 / 93
p0 27.44 ± 0.0206
38
36
34
32
30
28
26
24
22
20

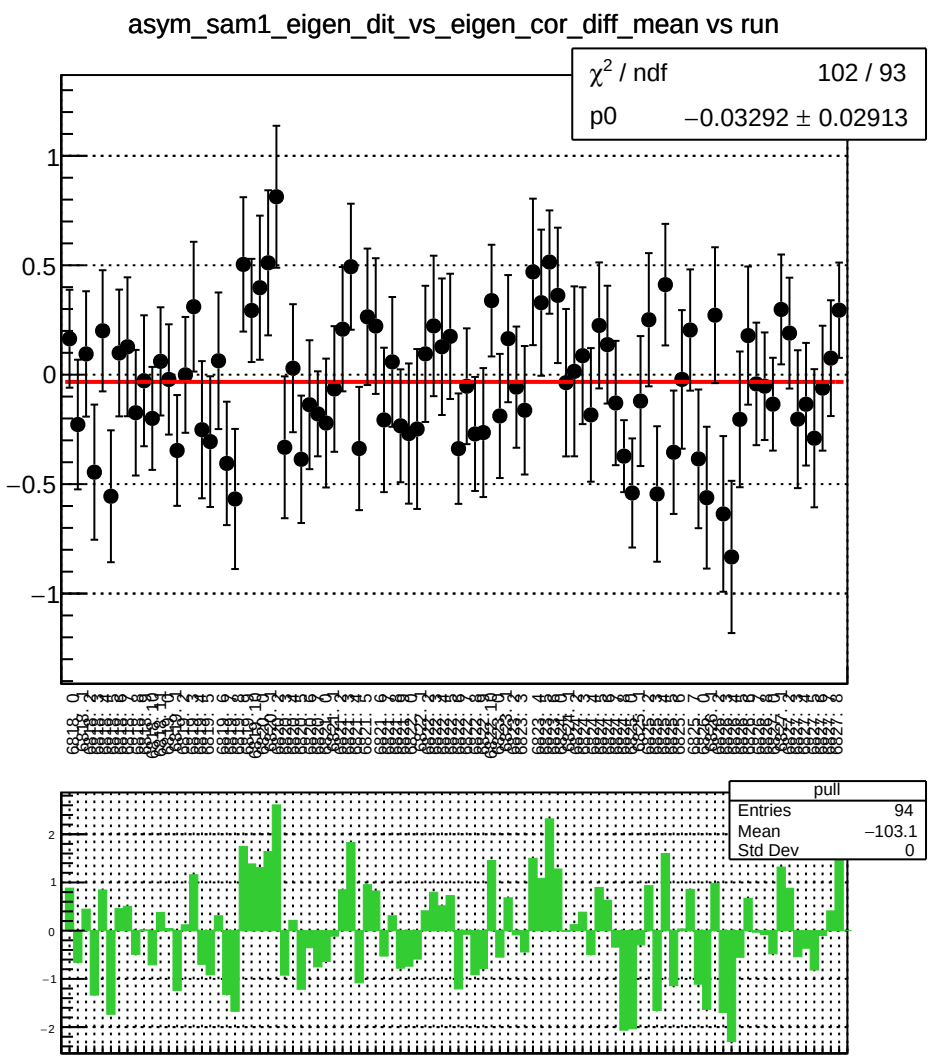

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.04 / 93
p0 1.022e−06 ± 1.197e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean −725.6
Std Dev 0
2
1
0
−1
−2
−3

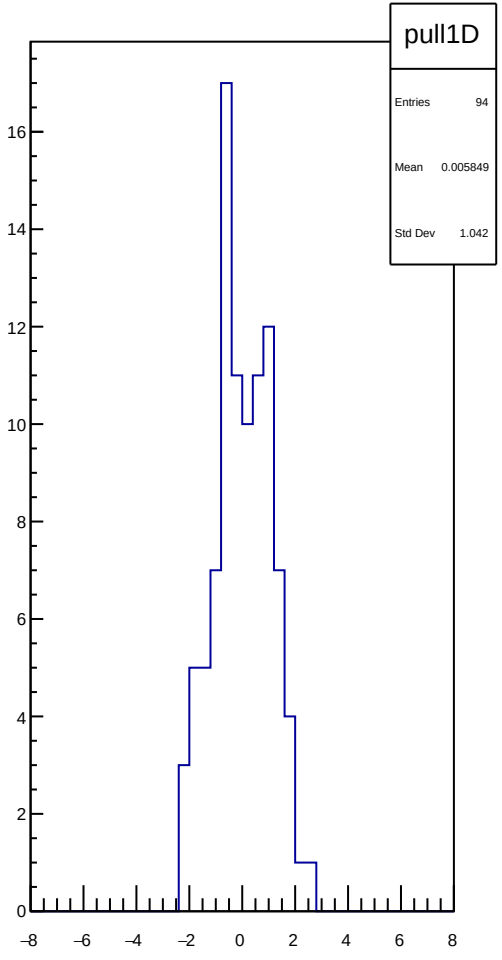

pull1D
Entries 94
Mean 0.002986
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

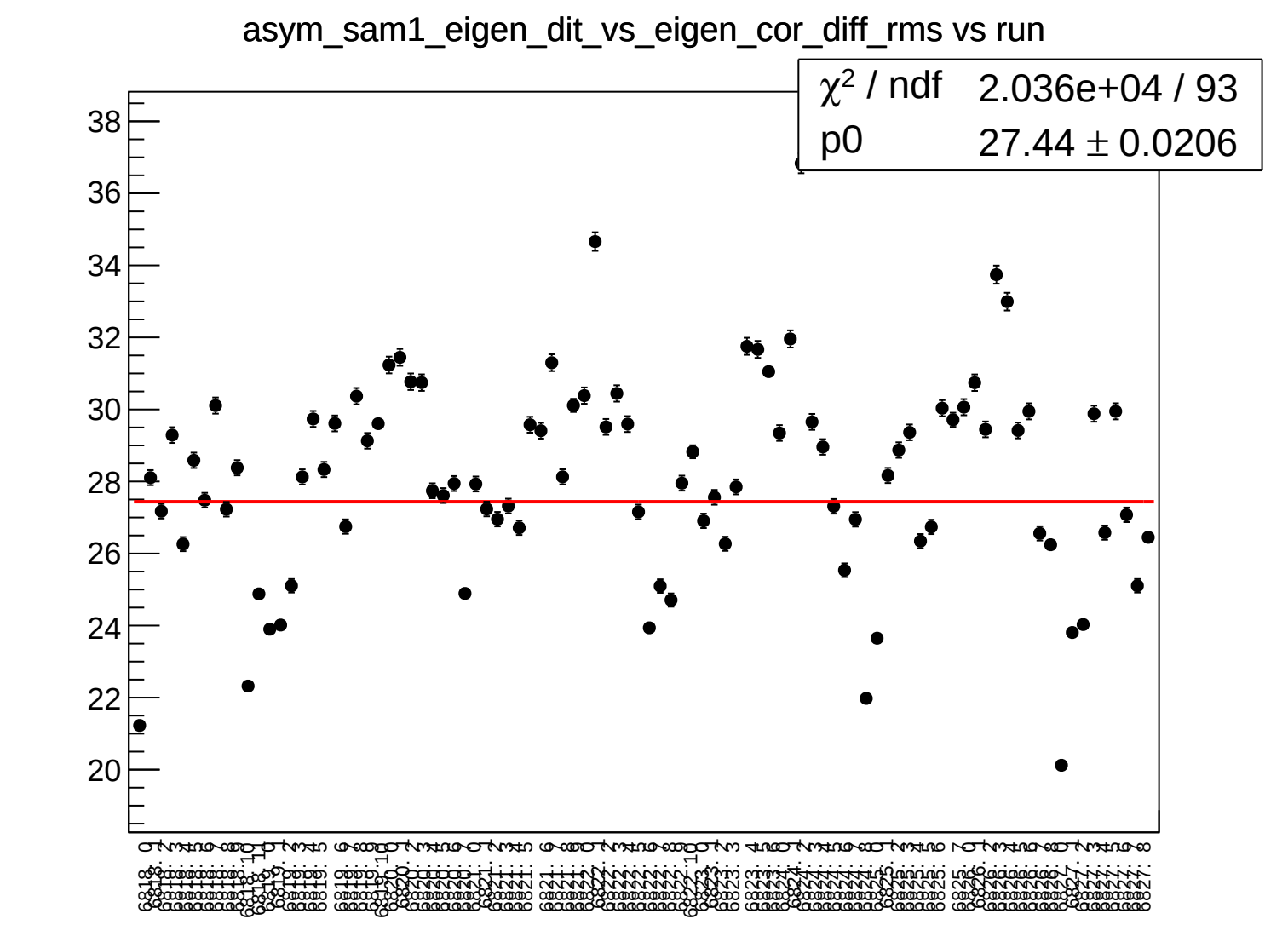

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4267 / 93
p0 0.001133 ± 8.465e−07
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105

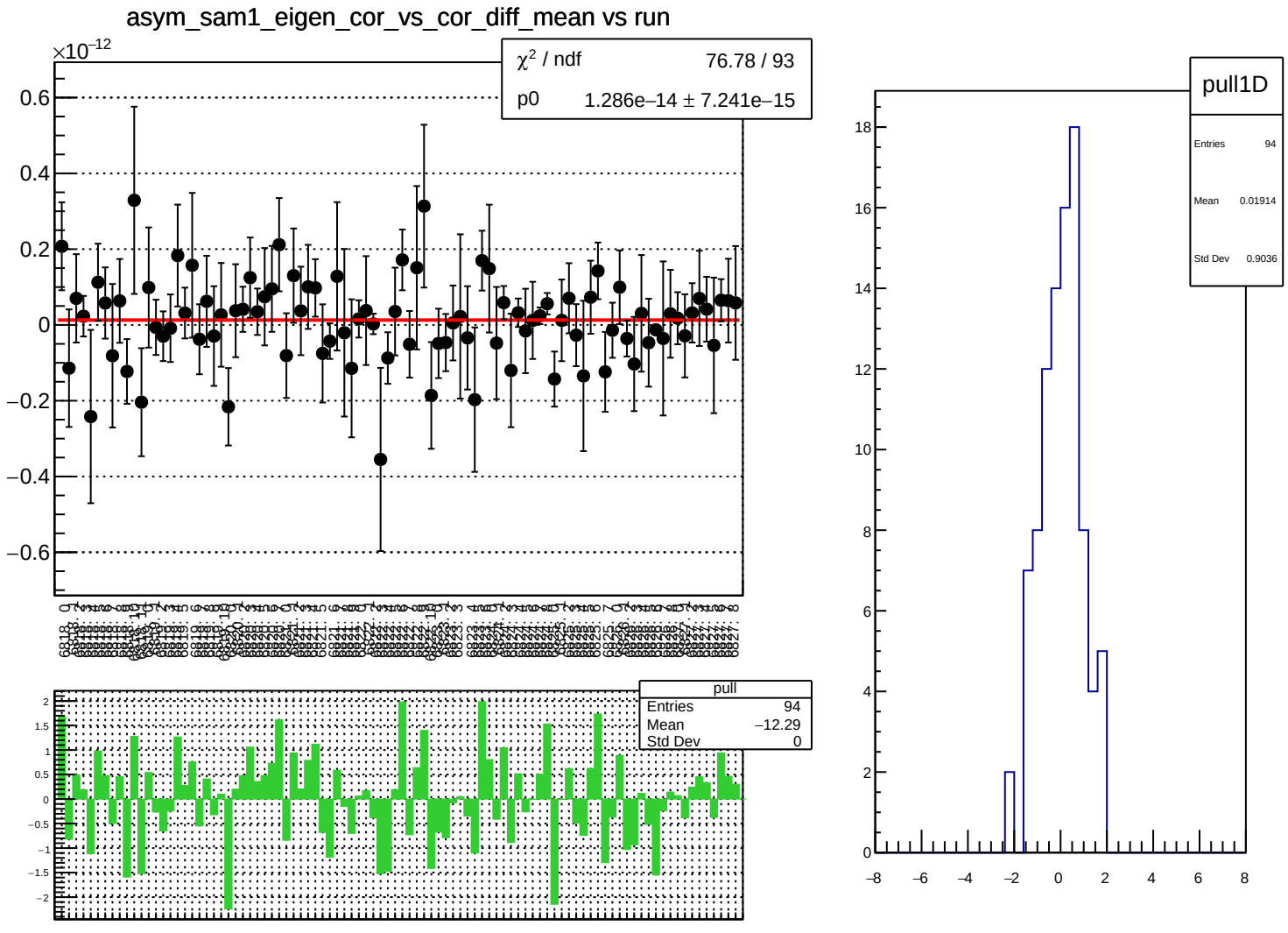

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102 / 93
p0 −0.03292 ± 0.02913
pull
Entries 94
Mean −103.1
Std Dev 0
pull1D
Entries 94
Mean 0.005849
Std Dev 1.042

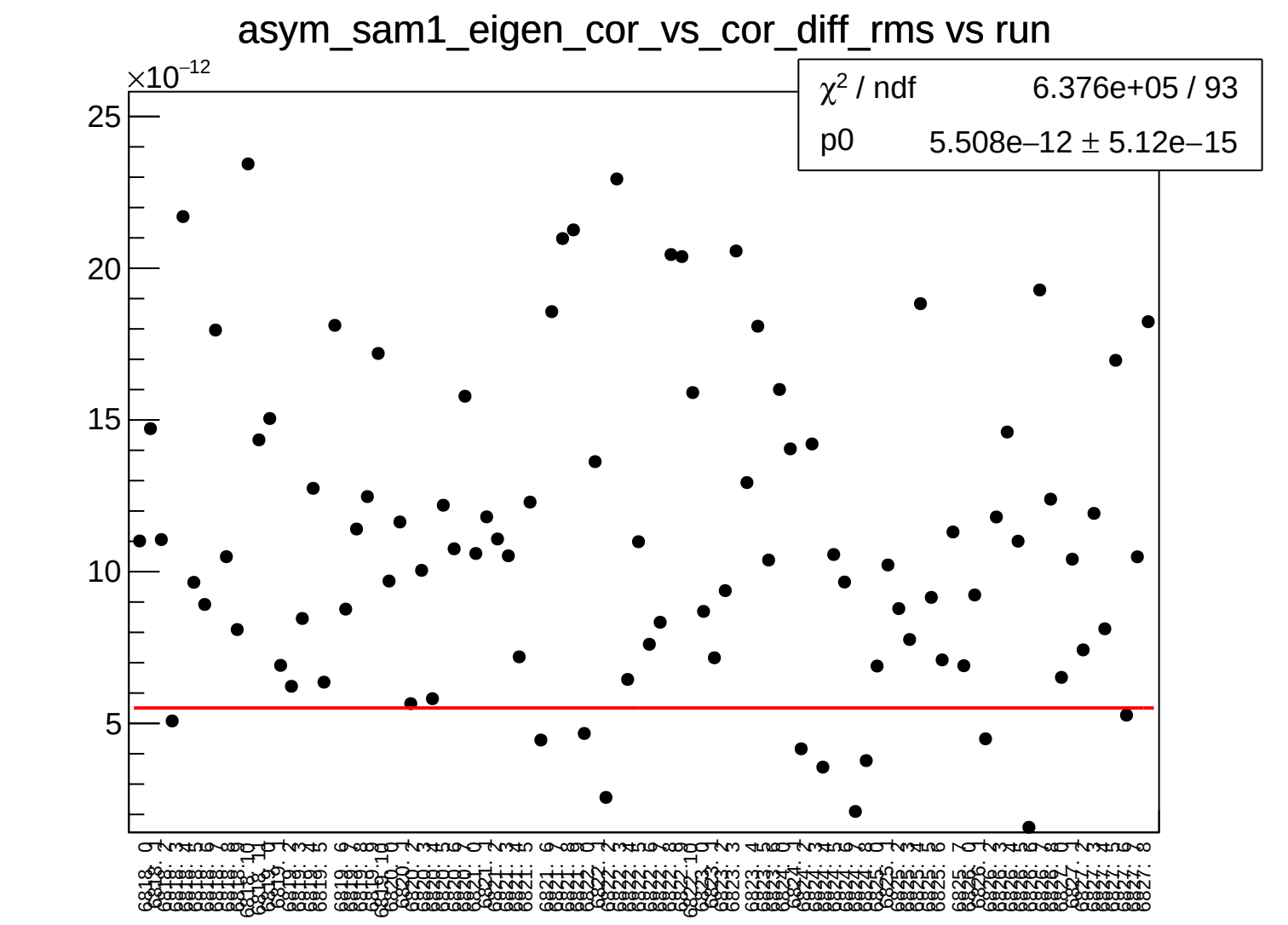

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+04 / 93
p0 27.44 ± 0.0206
38
36
34
32
30
28
26
24
22
20

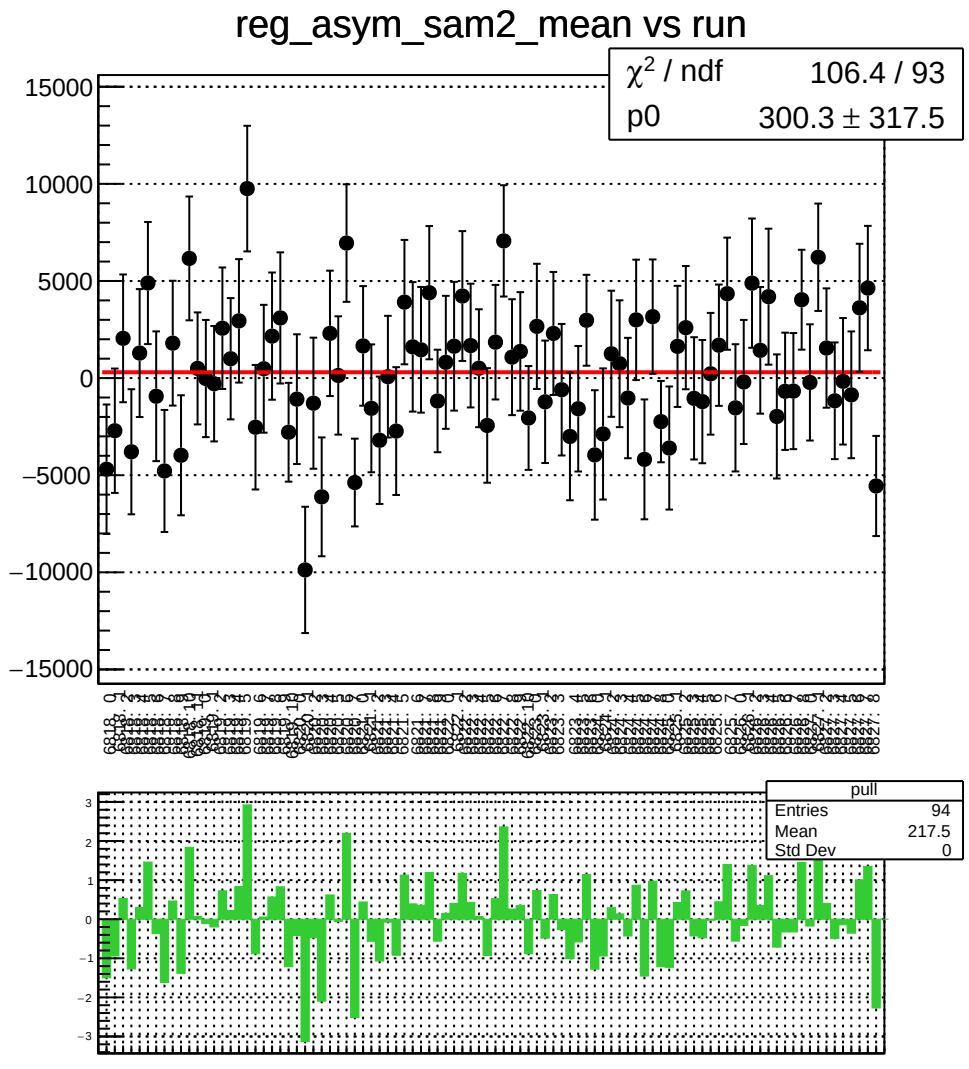

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102 / 93
p0 −0.03292 ± 0.02913
pull
Entries 94
Mean −103.1
Std Dev 0

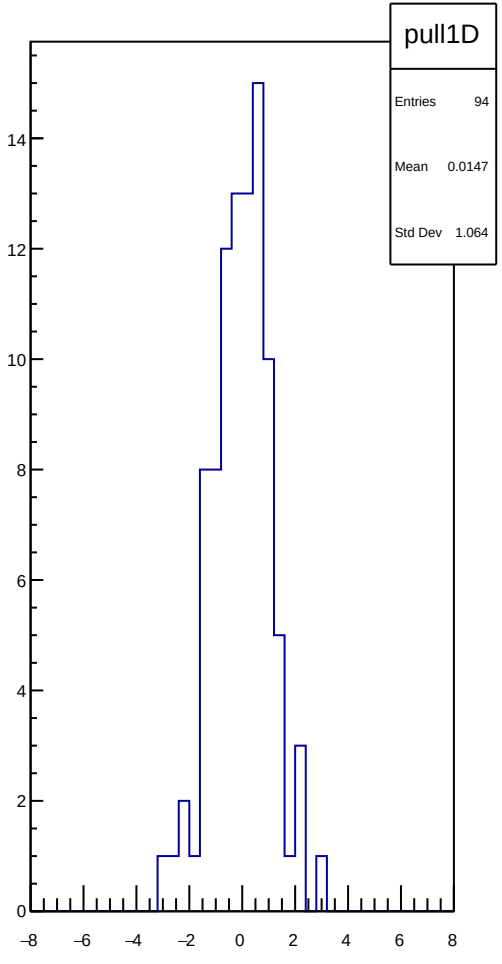

pull1D
Entries 94
Mean 0.005849
Std Dev 1.042

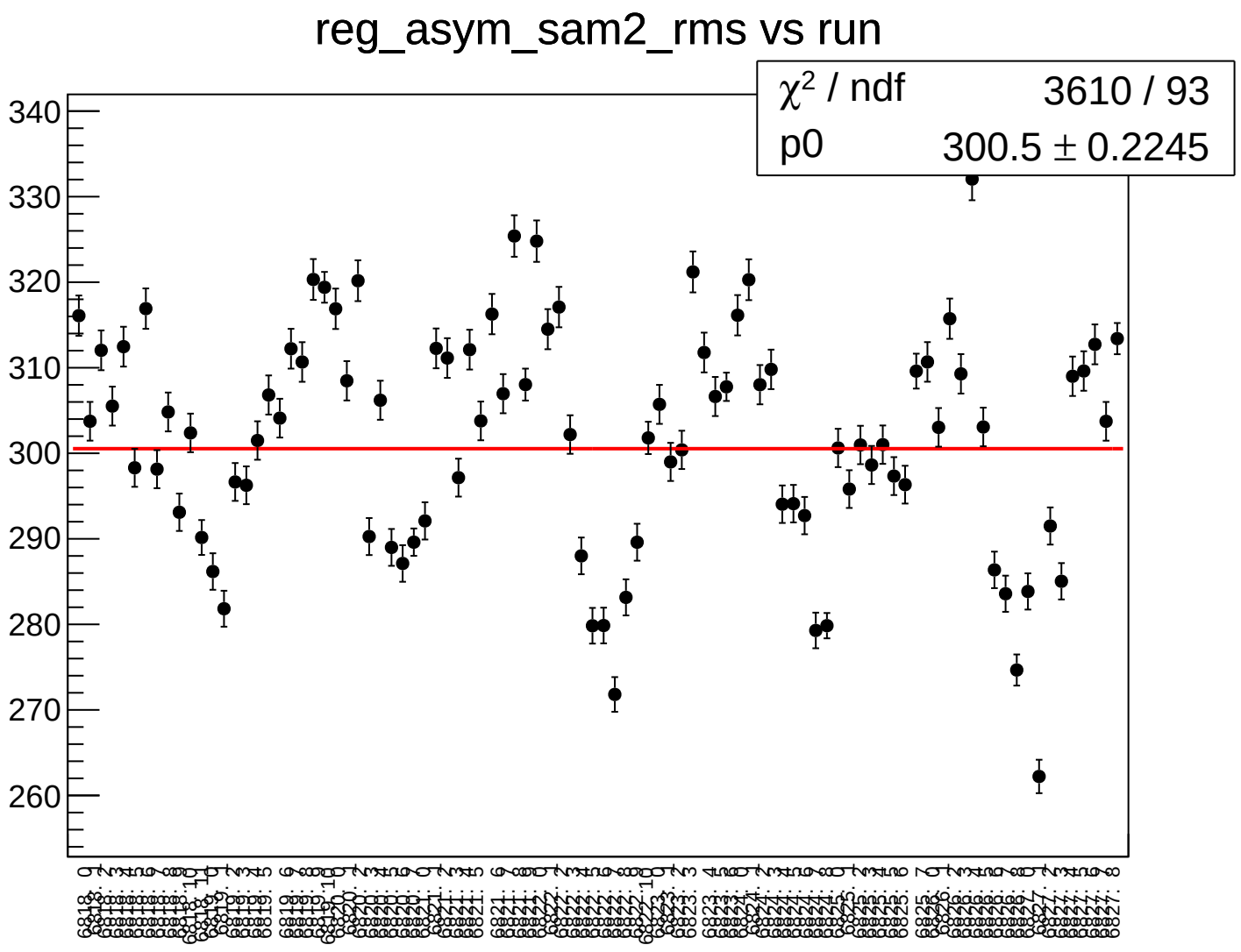

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+04 / 93
p0 27.44 ± 0.0206
38
36
34
32
30
28
26
24
22
20

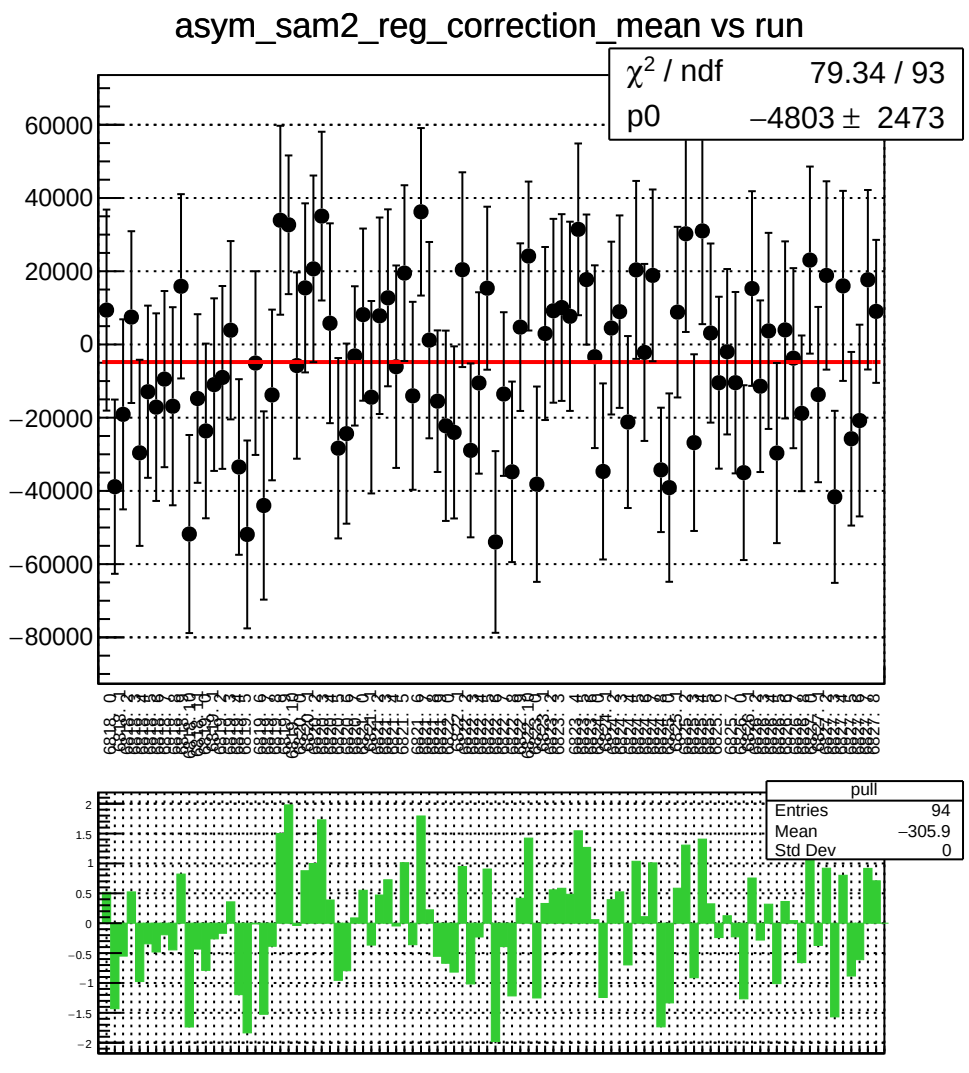

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.78 / 93
p0 1.286e−14 ± 7.241e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean −12.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.01914
Std Dev 0.9036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

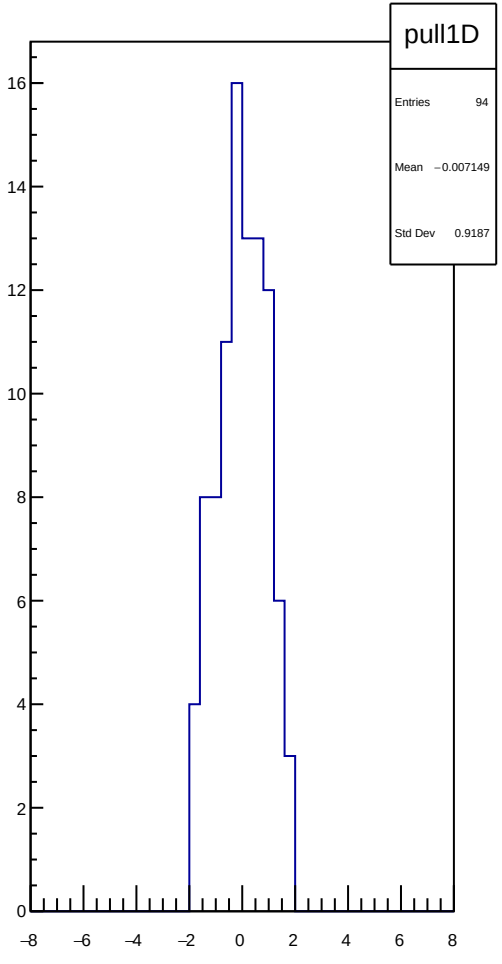

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.376e+05 / 93
p0 5.508e−12 ± 5.12e−15
25
20
15
10
5

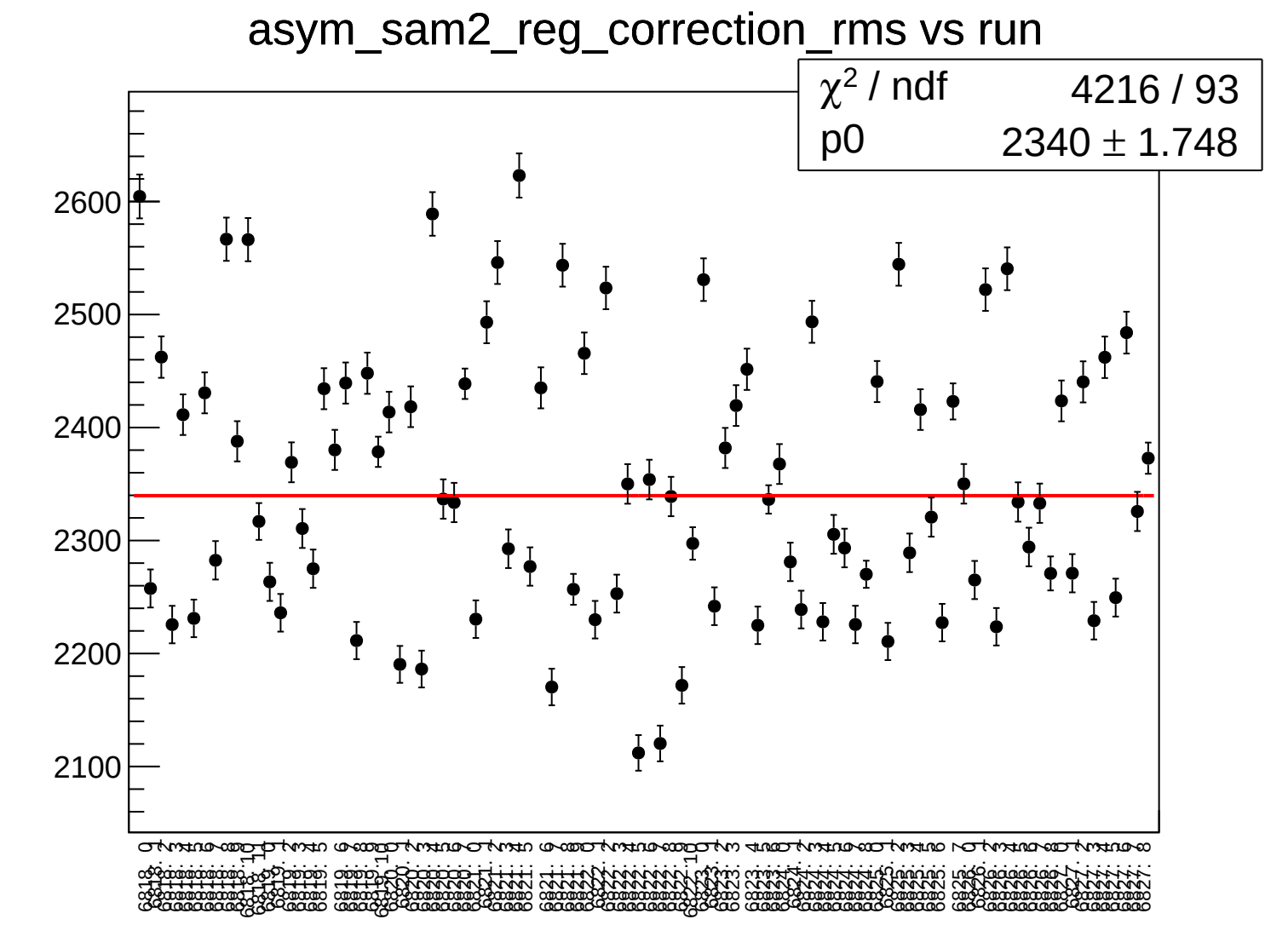

reg_asym_sam2_mean vs run
χ² / ndf 106.4 / 93
p0 300.3 ± 317.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 217.5
Std Dev 0
3
2
1
0
−1
−2
−3

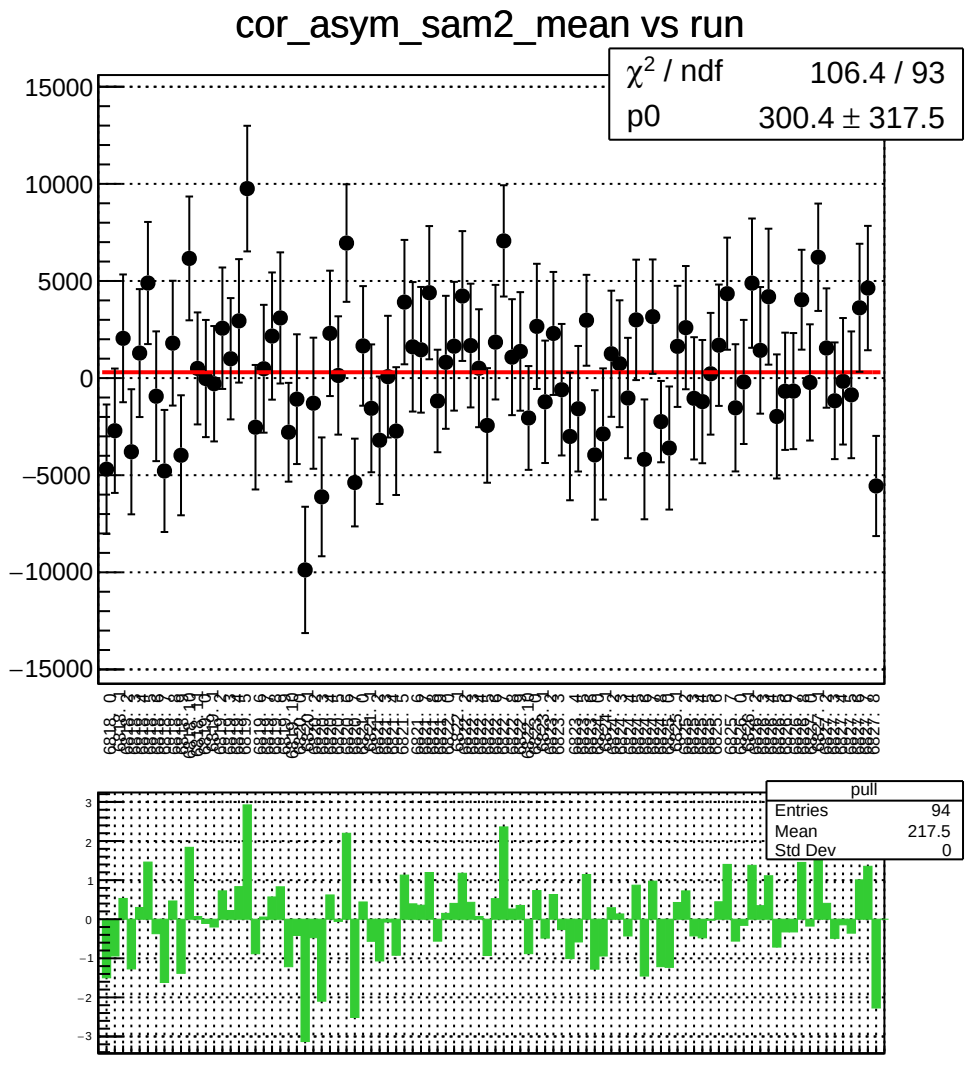

pull1D
Entries 94
Mean 0.0147
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

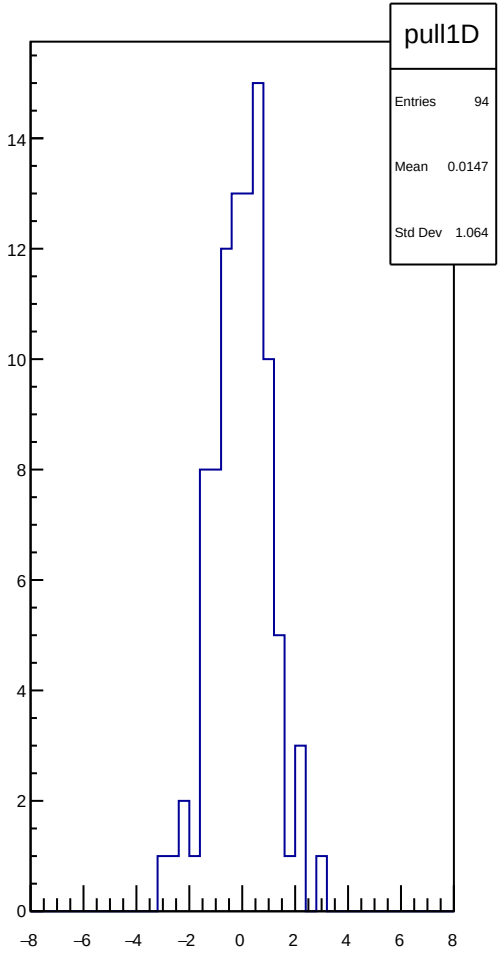

reg_asym_sam2_rms vs run
χ² / ndf 3610 / 93
p0 300.5 ± 0.2245
340
330
320
310
300
290
280
270
260

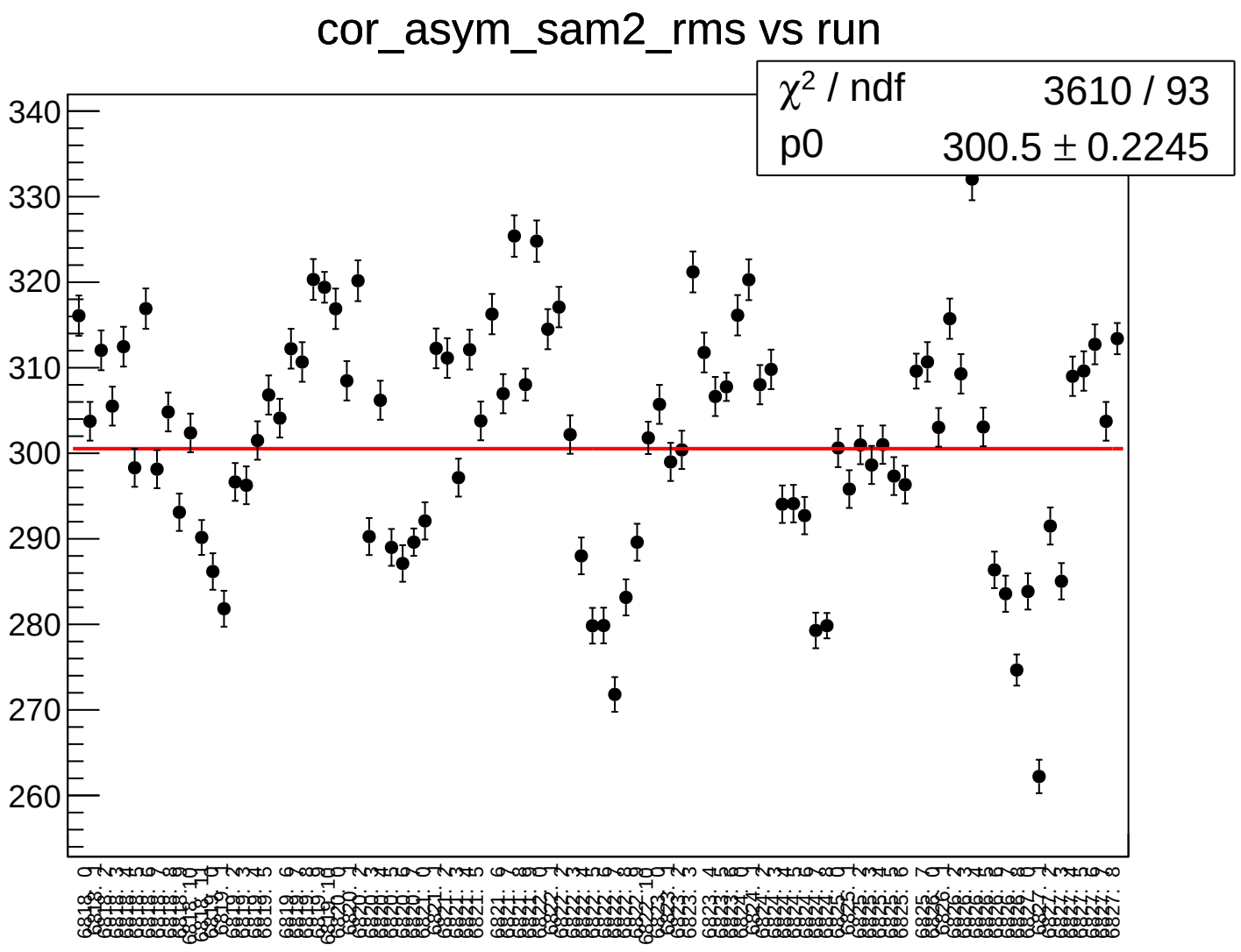

asym_sam2_reg_correction_mean vs run
χ² / ndf 79.34 / 93
p0 −4803 ± 2473
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

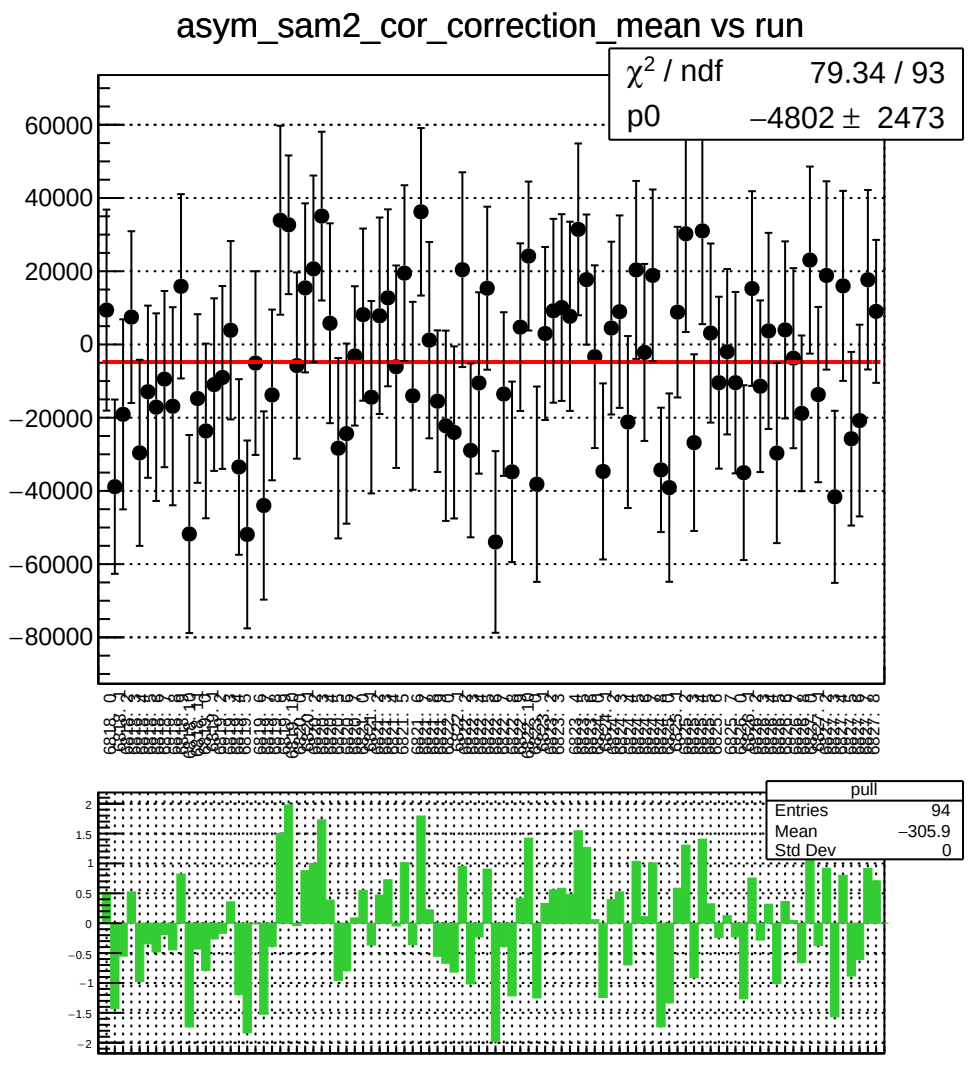

pull1D
Entries 94
Mean −0.007149
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

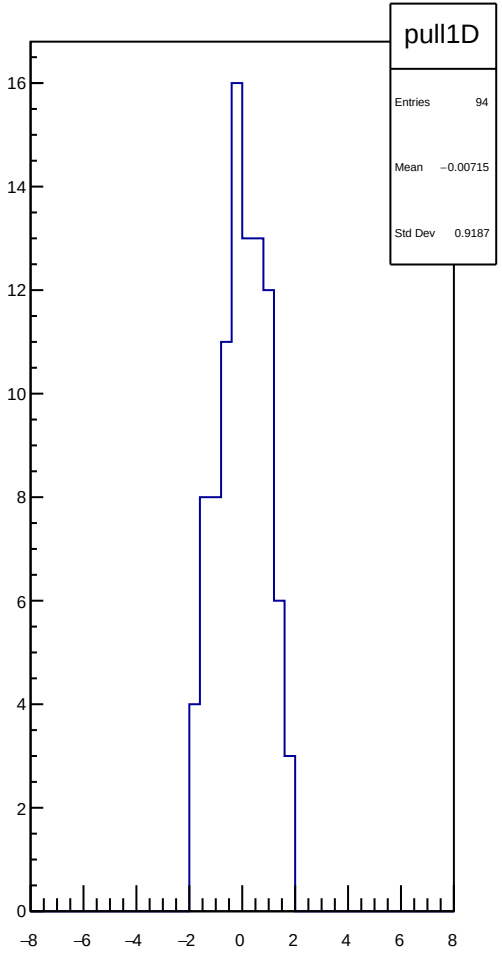

asym_sam2_reg_correction_rms vs run
χ² / ndf 4216 / 93
p0 2340 ± 1.748
2600
2500
2400
2300
2200
2100

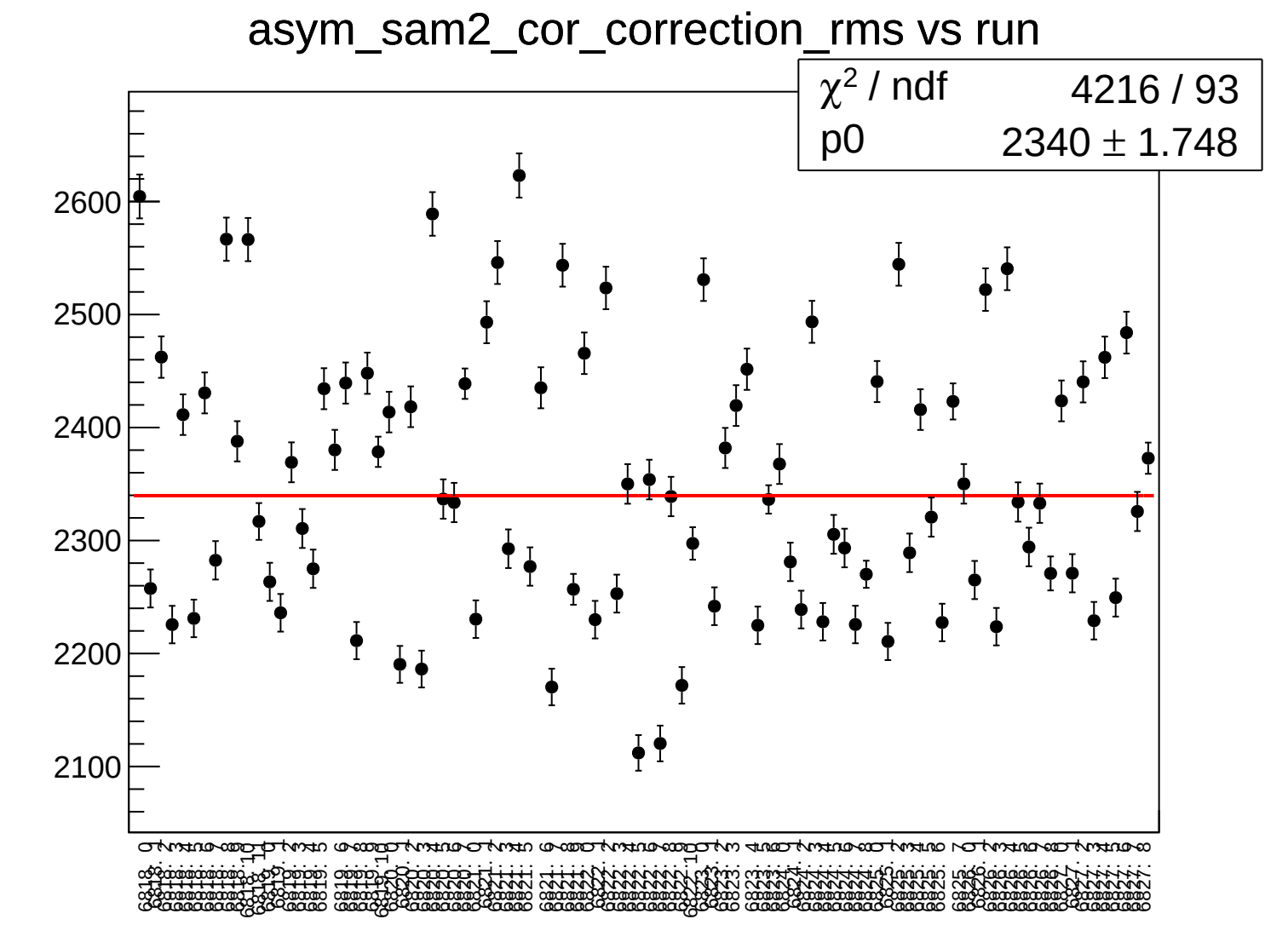

cor_asym_sam2_mean vs run
χ² / ndf 106.4 / 93
p0 300.4 ± 317.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 217.5
Std Dev 0
3
2
1
0
−1
−2
−3

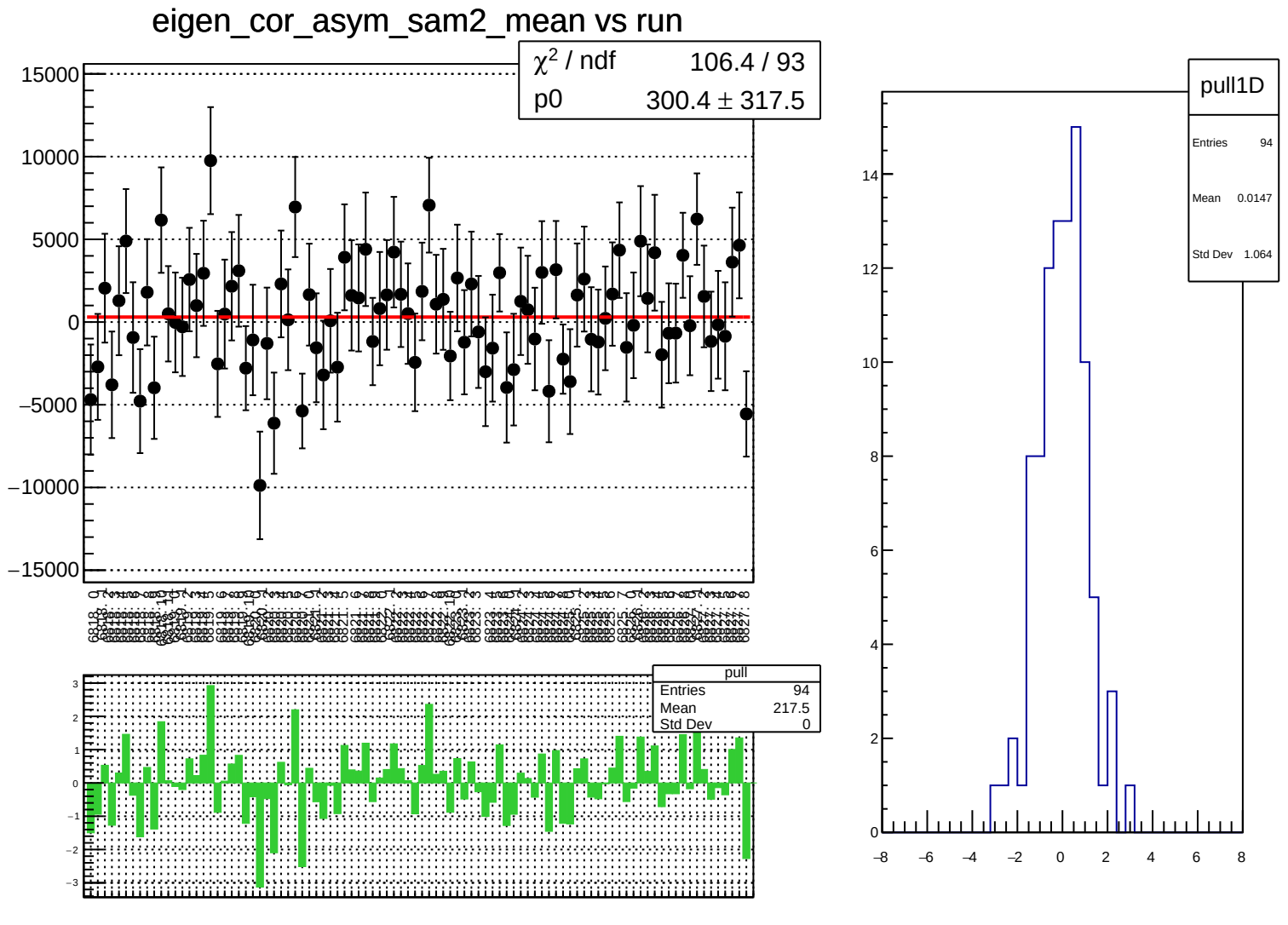

pull1D
Entries 94
Mean 0.0147
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

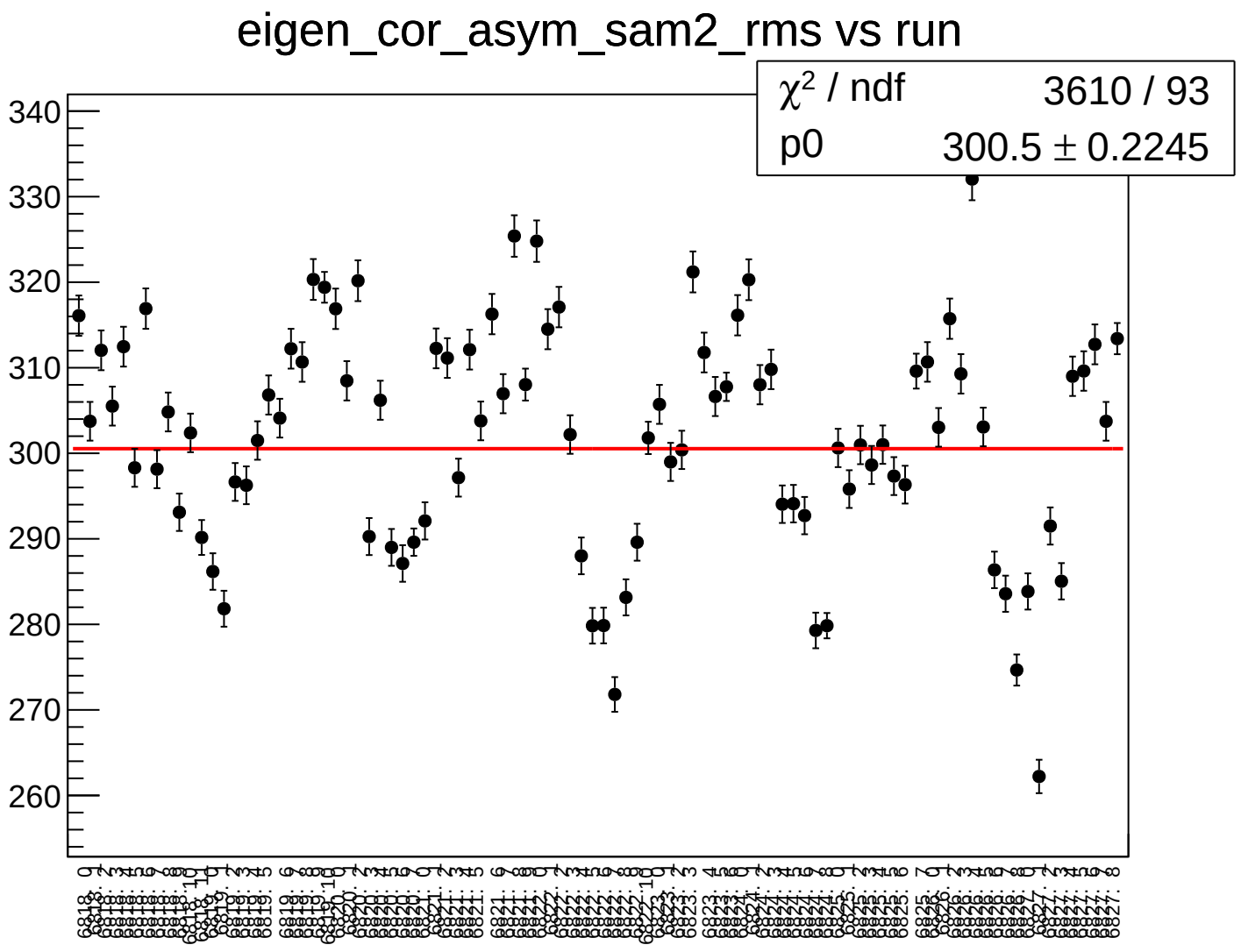

cor_asym_sam2_rms vs run
χ² / ndf 3610 / 93
p0 300.5 ± 0.2245
340
330
320
310
300
290
280
270
260

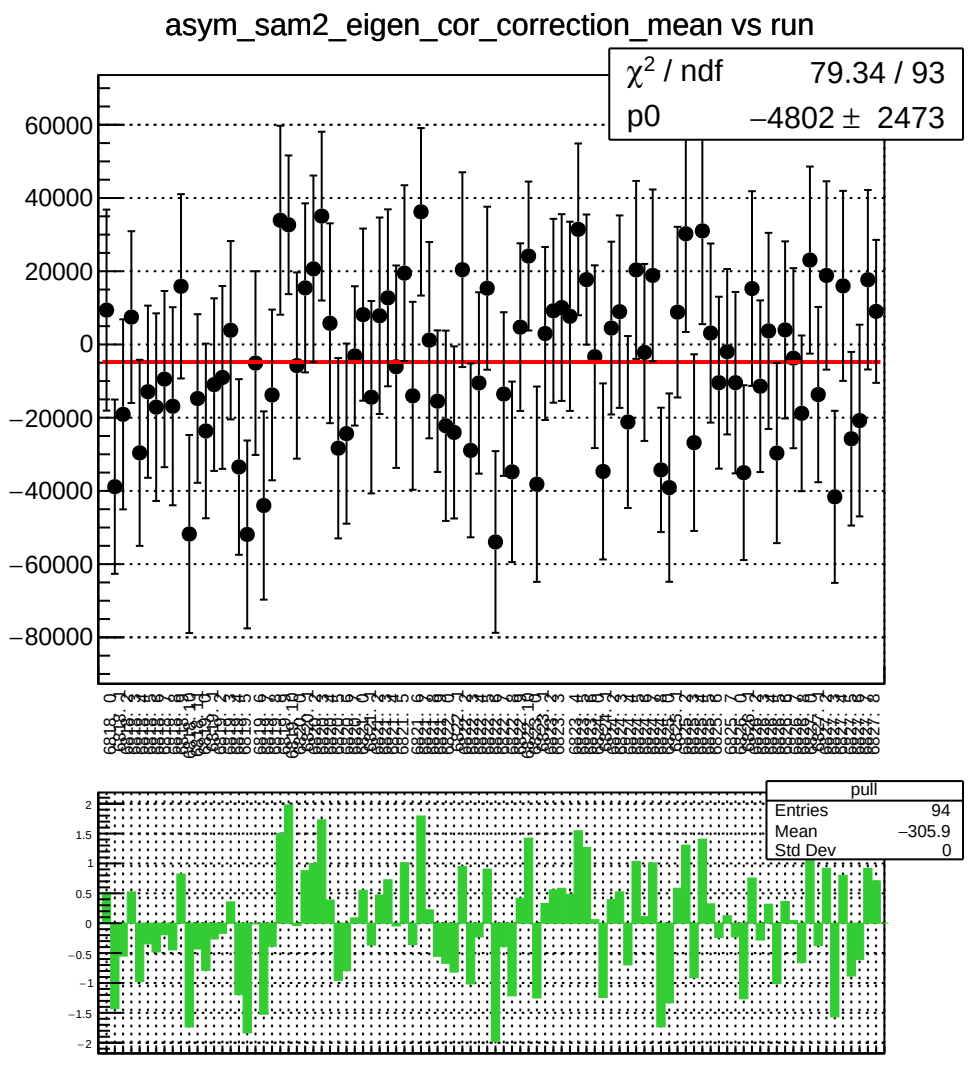

asym_sam2_cor_correction_mean vs run
χ² / ndf 79.34 / 93
p0 −4802 ± 2473
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

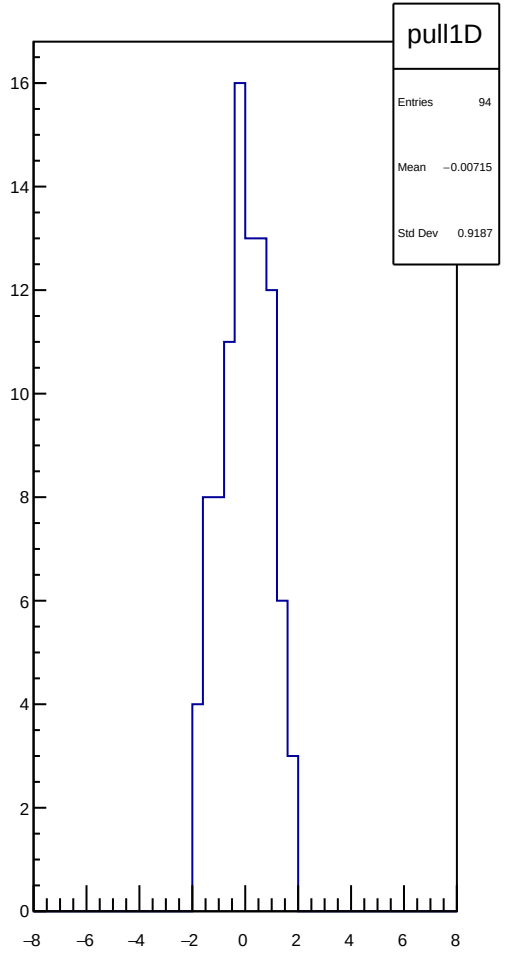

pull1D
Entries 94
Mean −0.00715
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

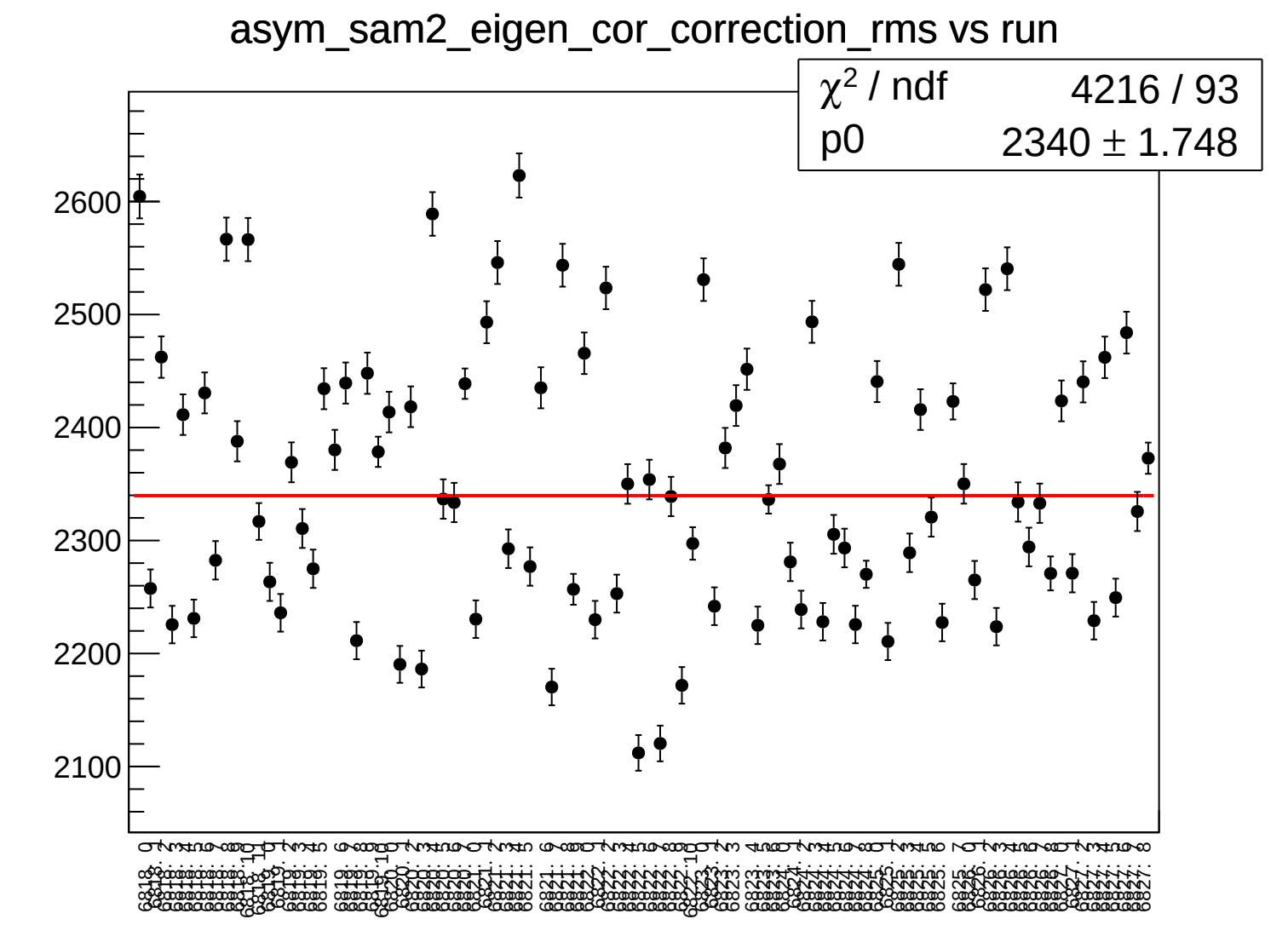

asym_sam2_cor_correction_rms vs run
χ² / ndf 4216 / 93
p0 2340 ± 1.748
2600
2500
2400
2300
2200
2100

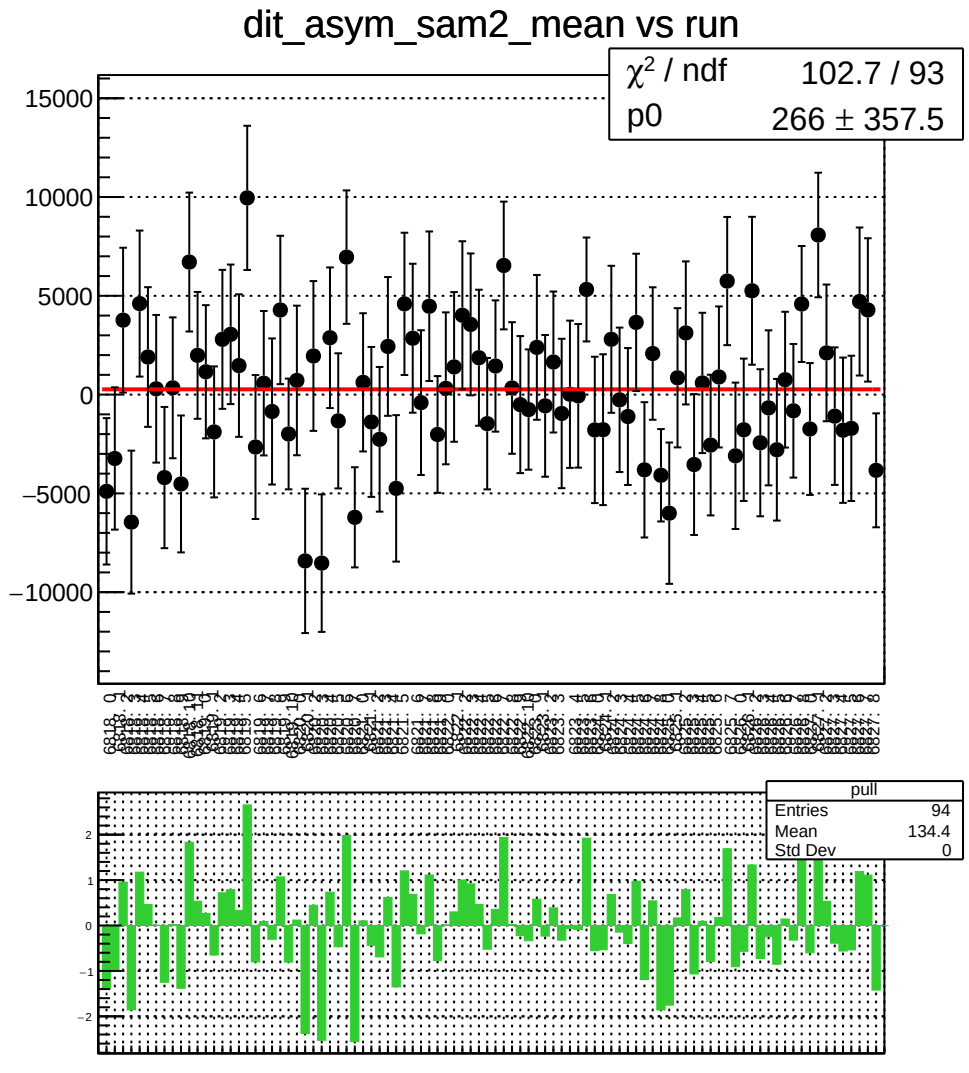

eigen_cor_asym_sam2_mean vs run
χ² / ndf 106.4 / 93
p0 300.4 ± 317.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 217.5
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0147
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

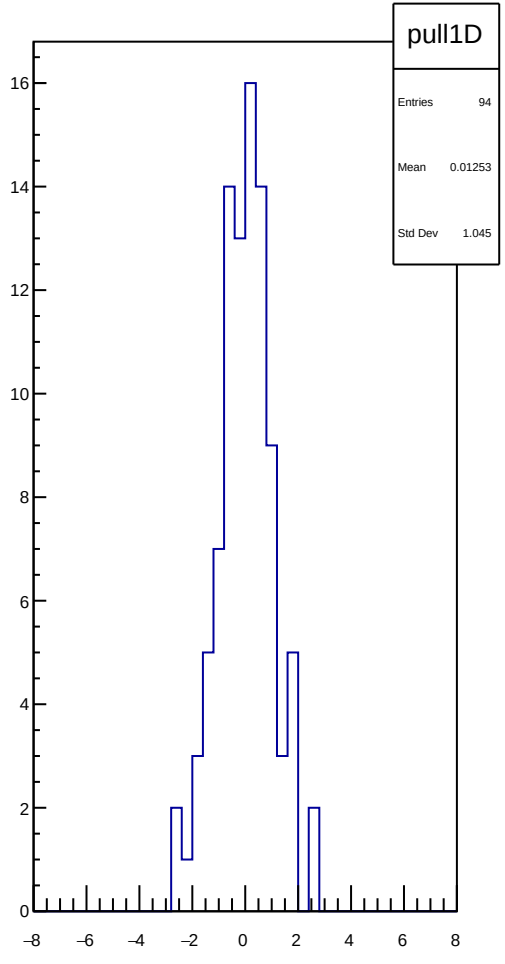

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3610 / 93
p0 300.5 ± 0.2245
340
330
320
310
300
290
280
270
260

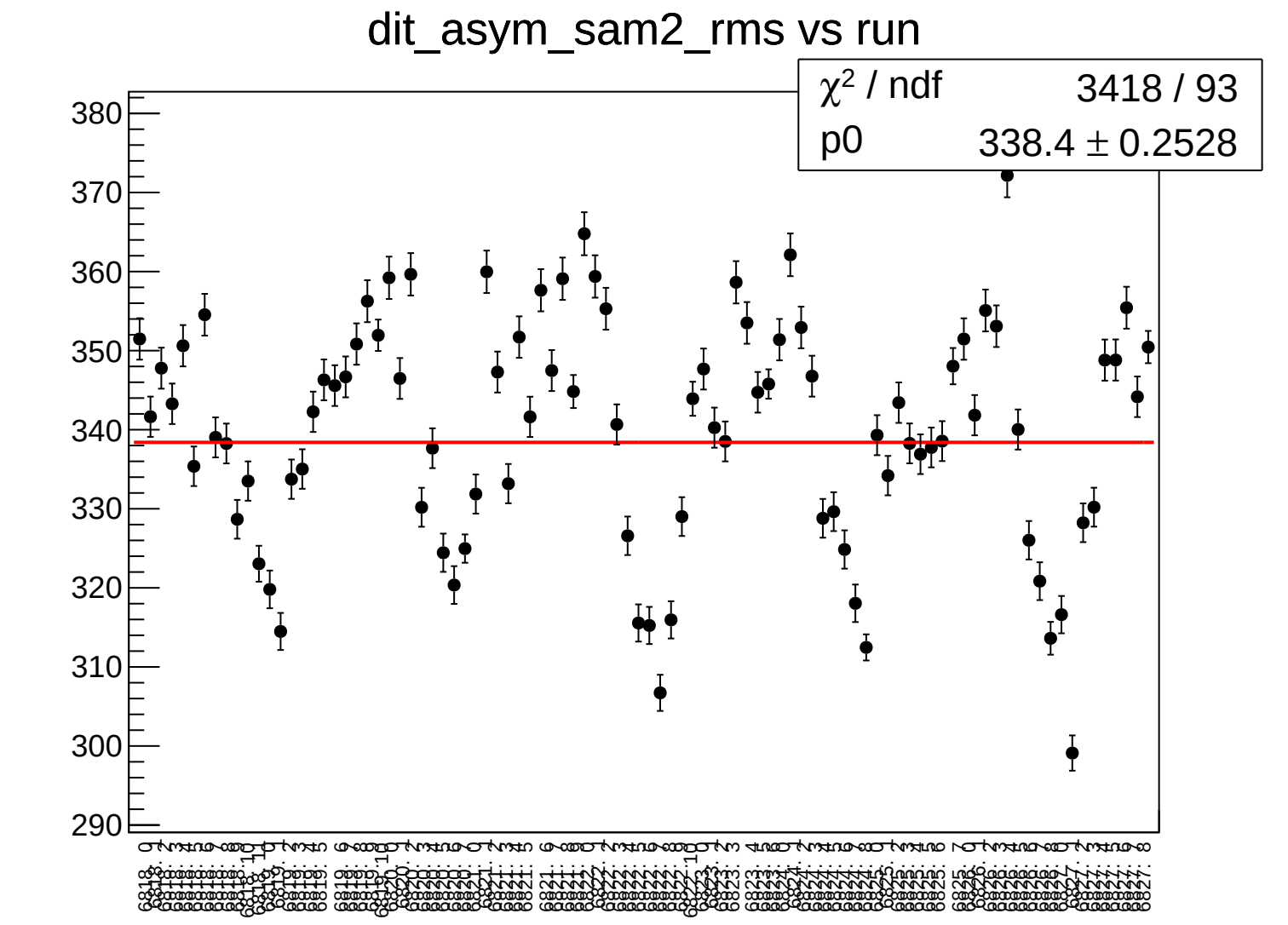

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 79.34 / 93
p0 −4802 ± 2473
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −305.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

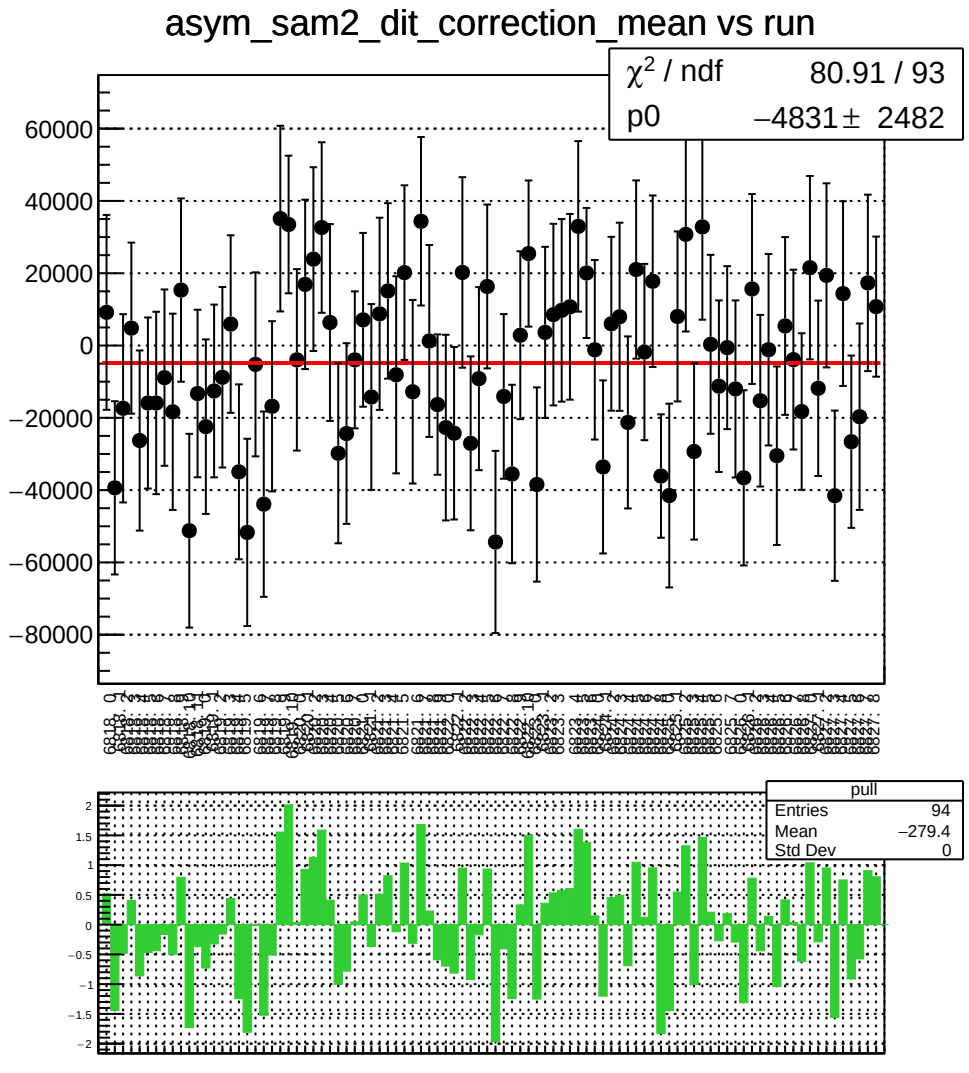

pull1D
Entries 94
Mean −0.00715
Std Dev 0.9187
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

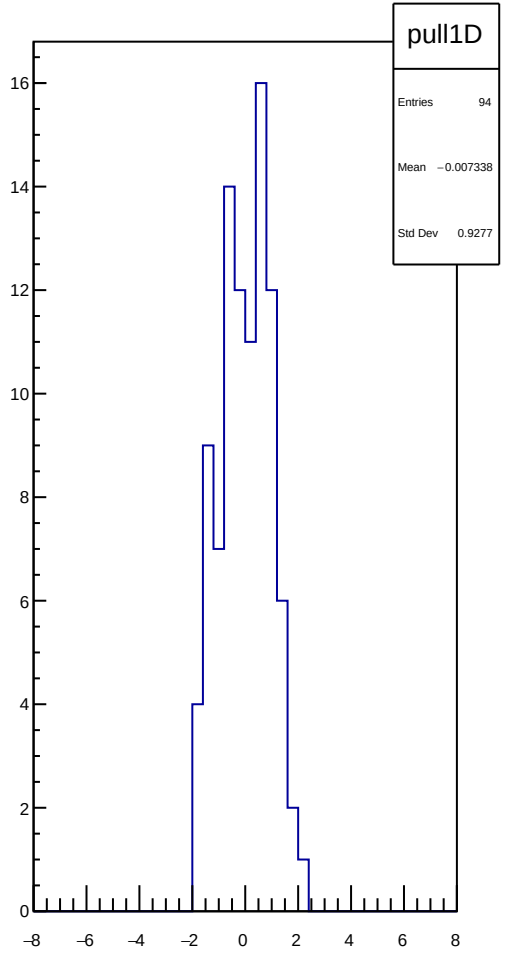

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 4216 / 93
p0 2340 ± 1.748
2600
2500
2400
2300
2200
2100

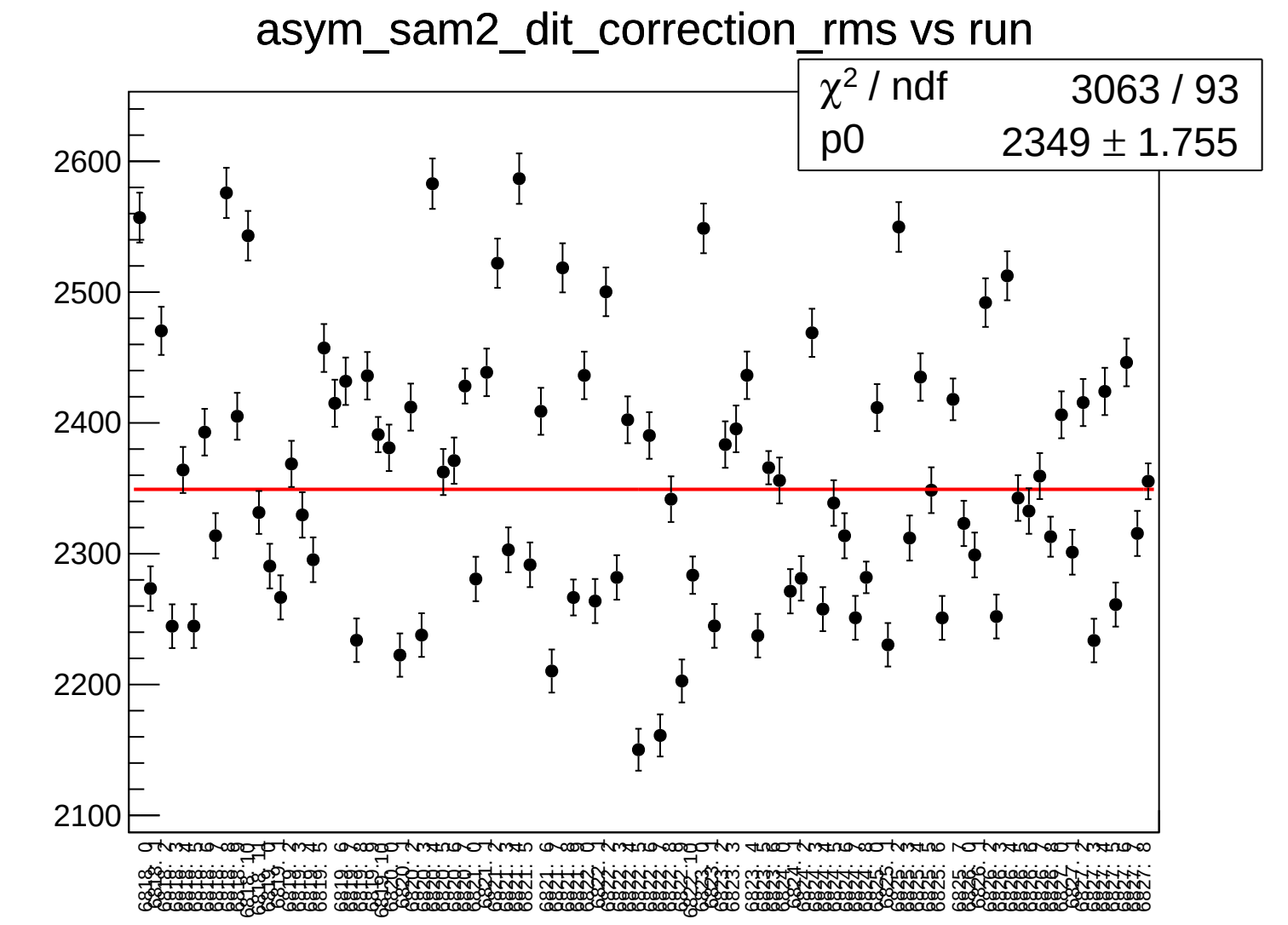

dit_asym_sam2_mean vs run
χ² / ndf 102.7 / 93
p0 266 ± 357.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 134.4
Std Dev 0
2
1
0
−1
−2

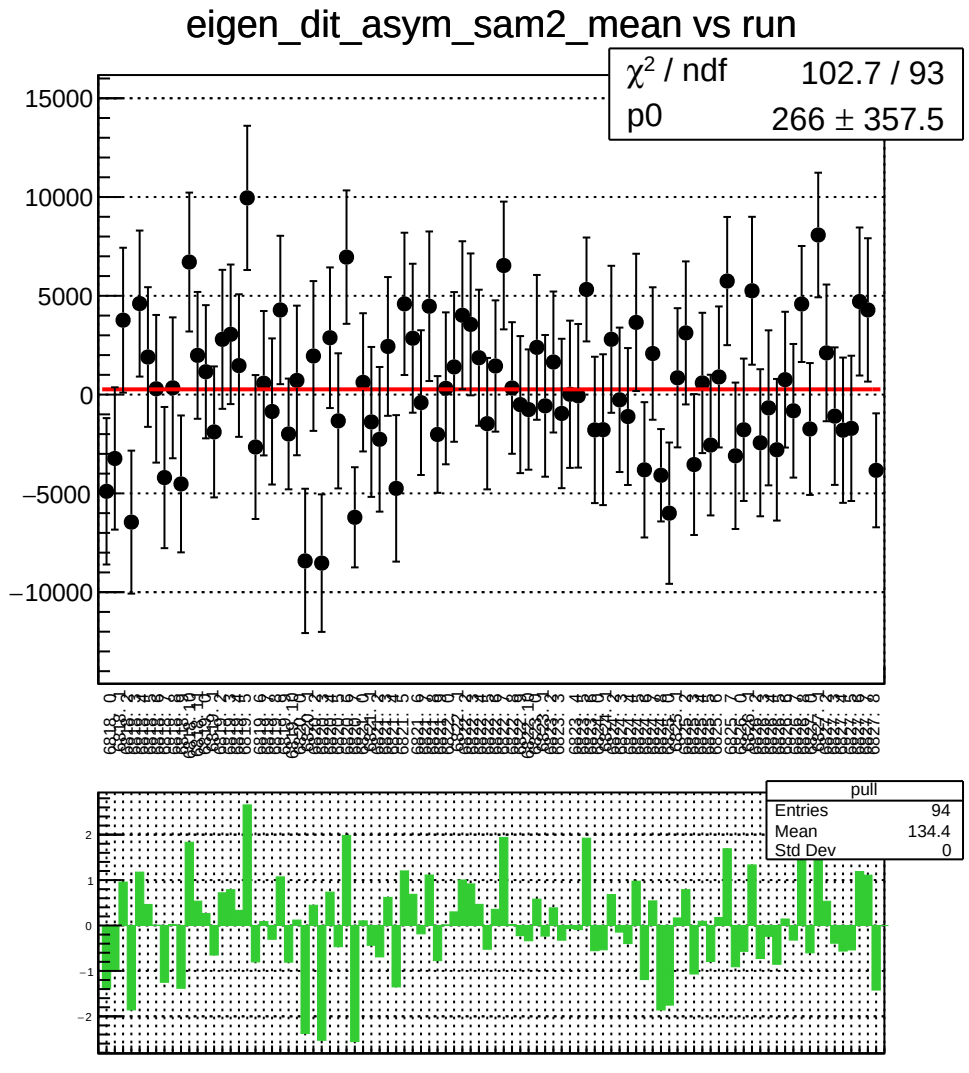

pull1D
Entries 94
Mean 0.01253
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

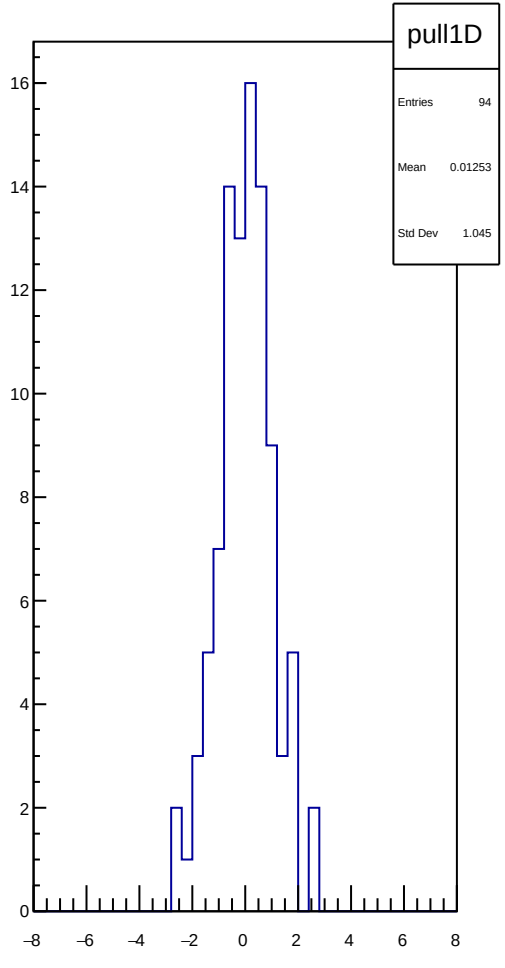

dit_asym_sam2_rms vs run
χ² / ndf 3418 / 93
p0 338.4 ± 0.2528
380
370
360
350
340
330
320
310
300
290

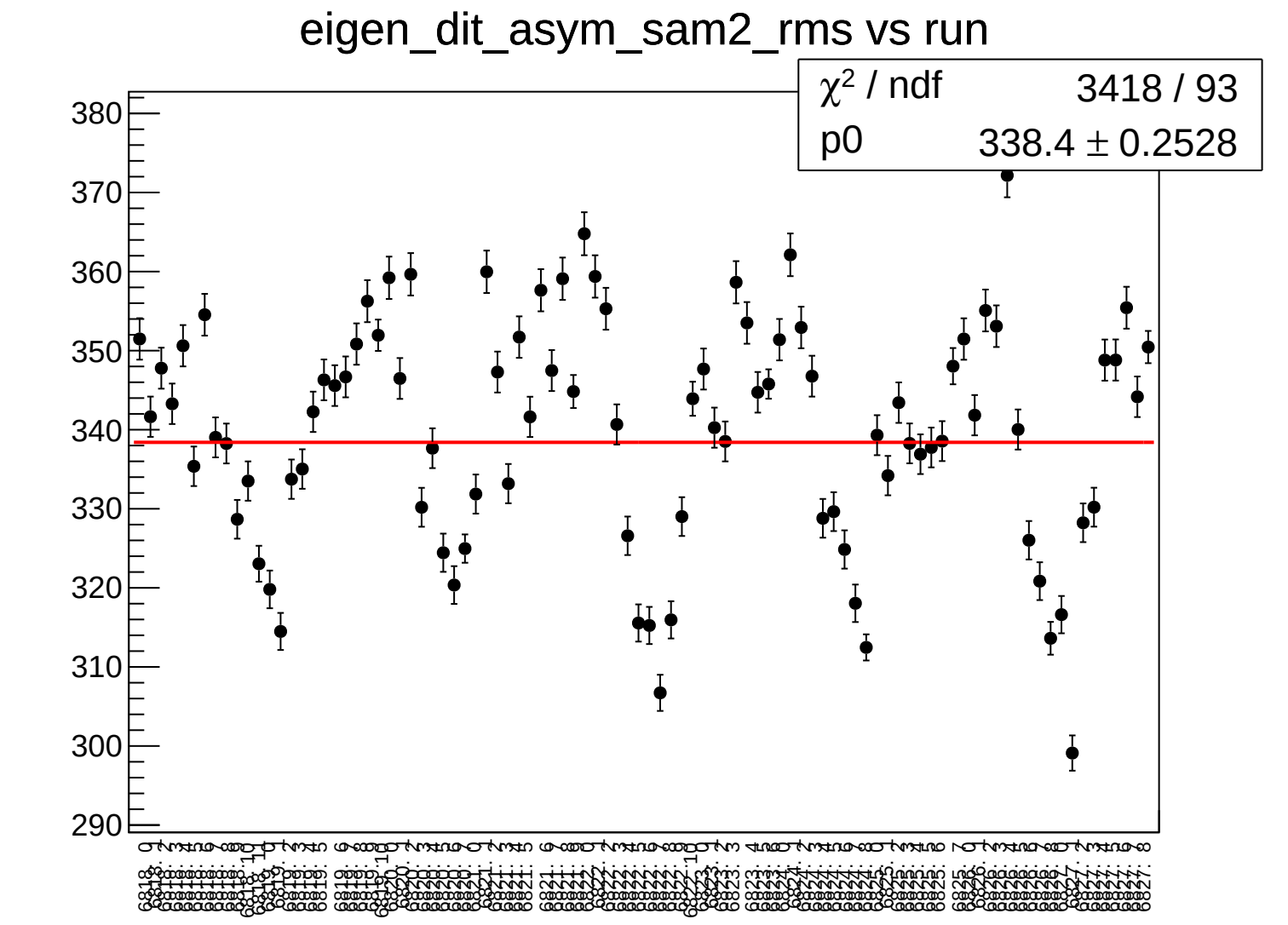

asym_sam2_dit_correction_mean vs run
χ² / ndf 80.91 / 93
p0 −4831 ± 2482
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −279.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

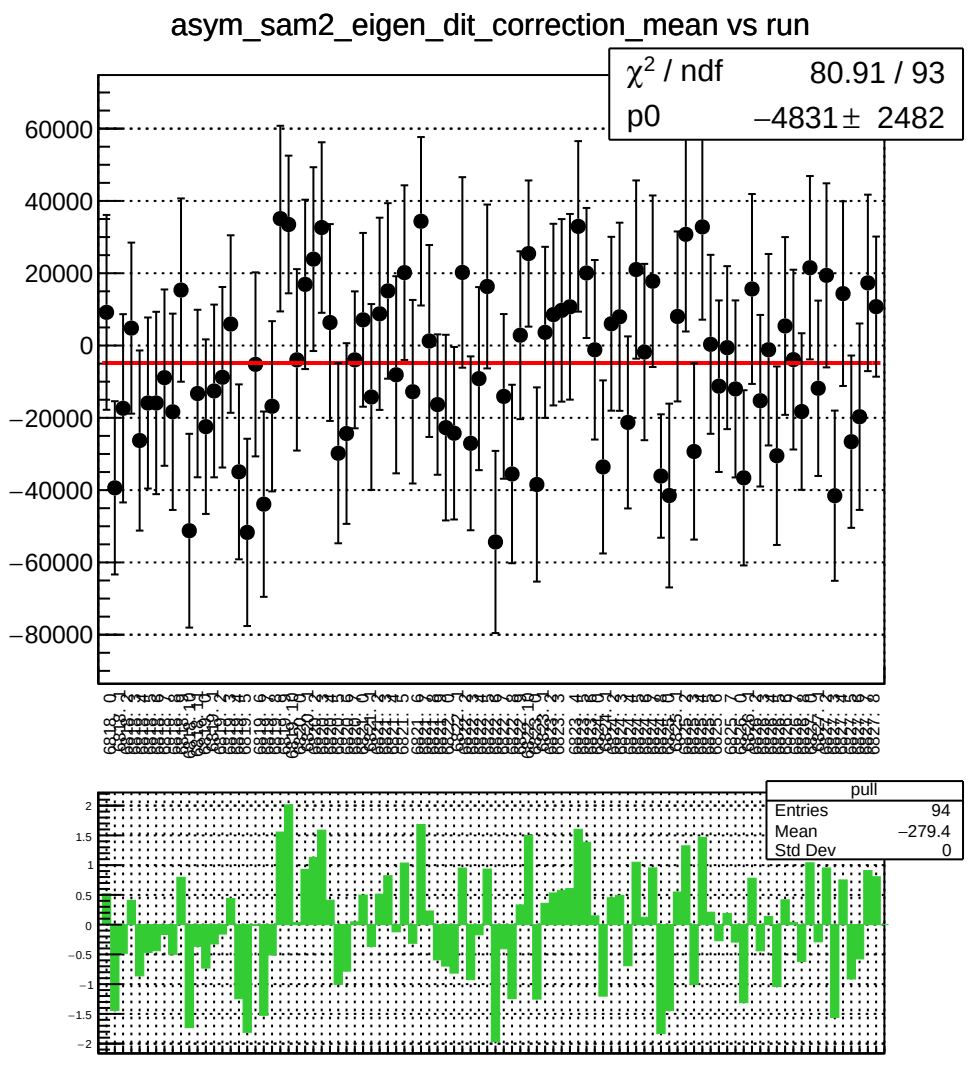

pull1D
Entries 94
Mean −0.007338
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

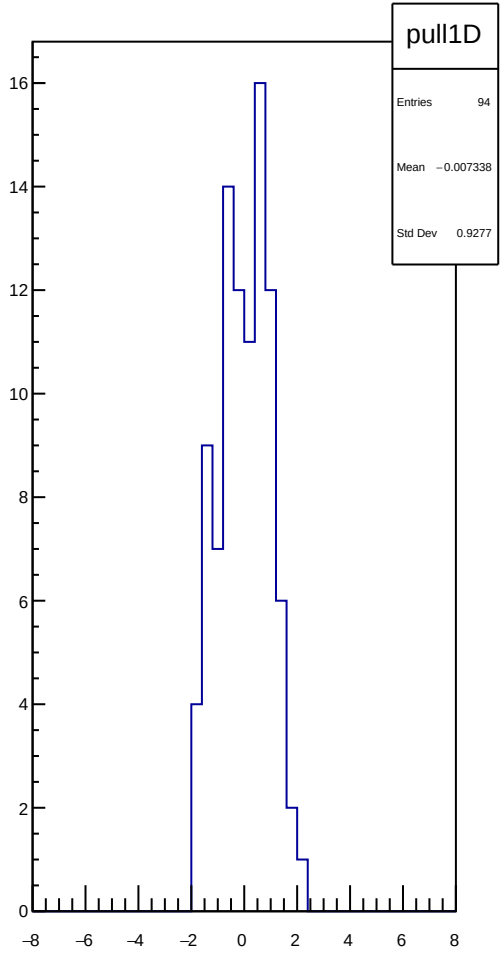

asym_sam2_dit_correction_rms vs run
χ² / ndf 3063 / 93
p0 2349 ± 1.755
2600
2500
2400
2300
2200
2100

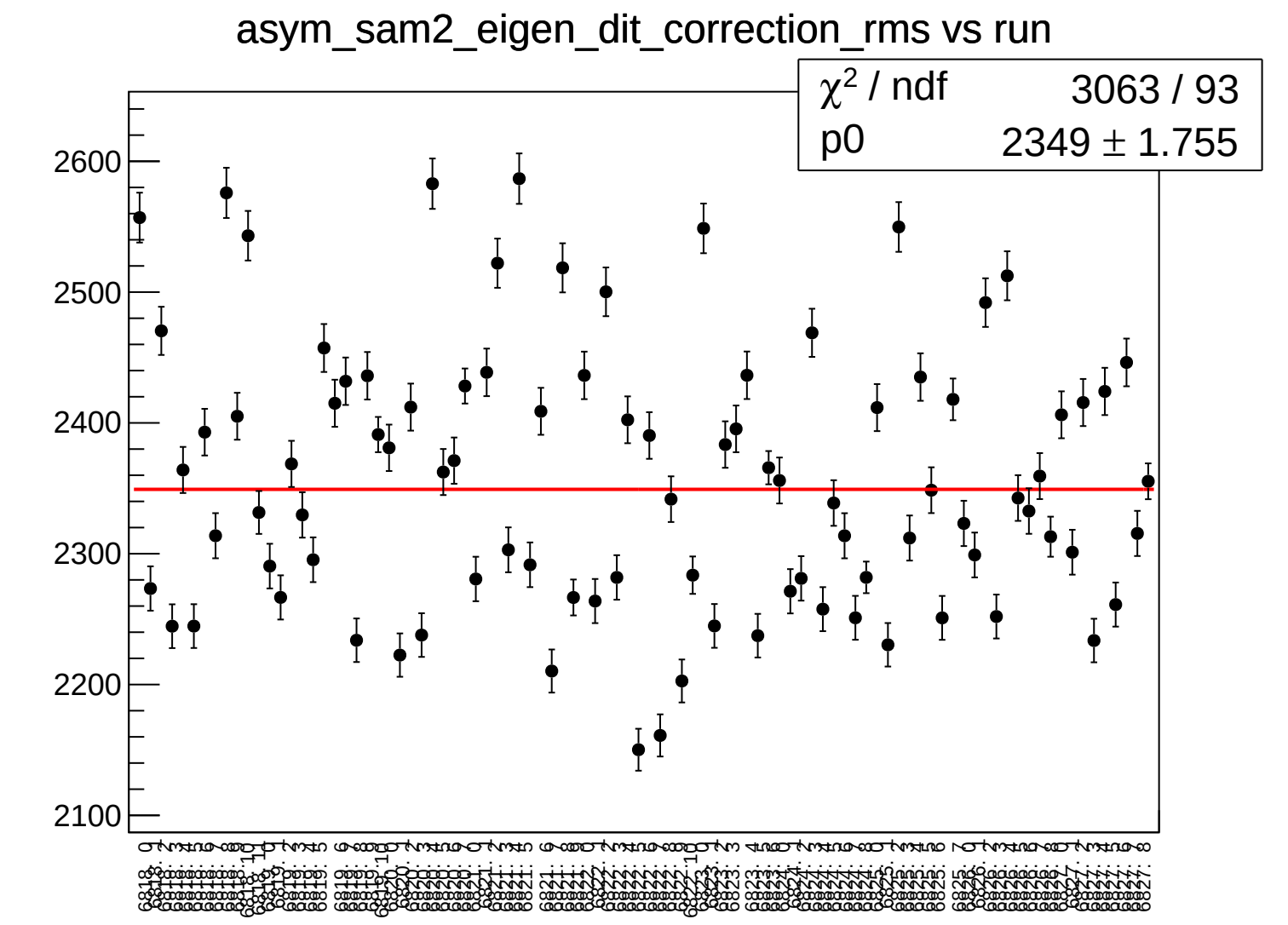

eigen_dit_asym_sam2_mean vs run
χ² / ndf 102.7 / 93
p0 266 ± 357.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 134.4
Std Dev 0
2
1
0
−1
−2

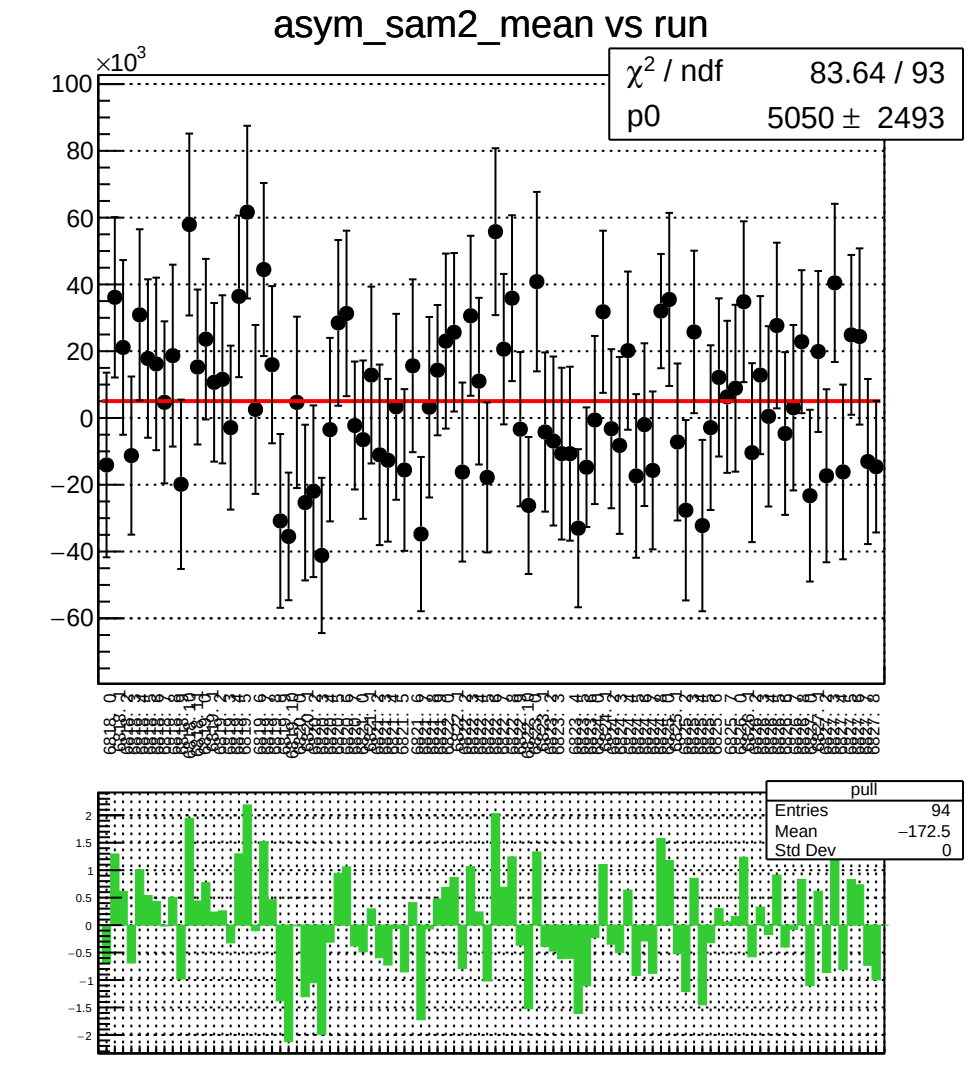

pull1D
Entries 94
Mean 0.01253
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

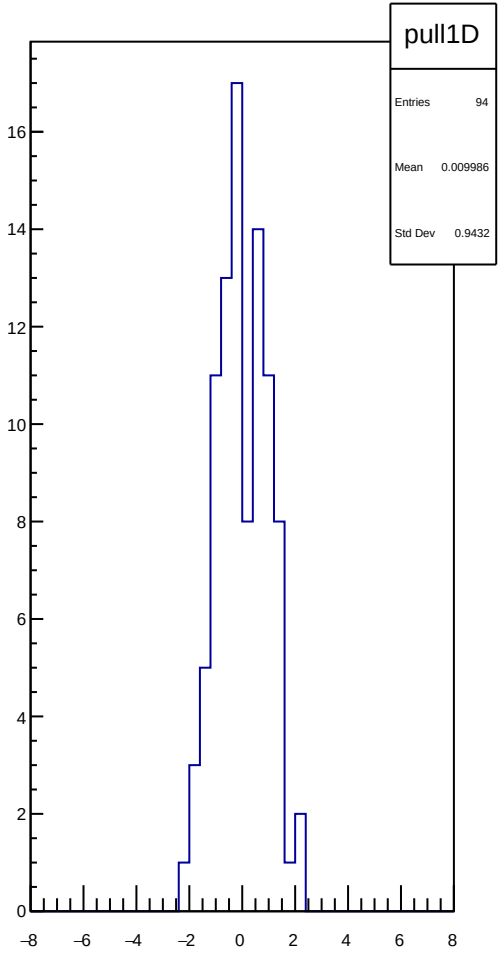

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3418 / 93
p0 338.4 ± 0.2528
380
370
360
350
340
330
320
310
300
290

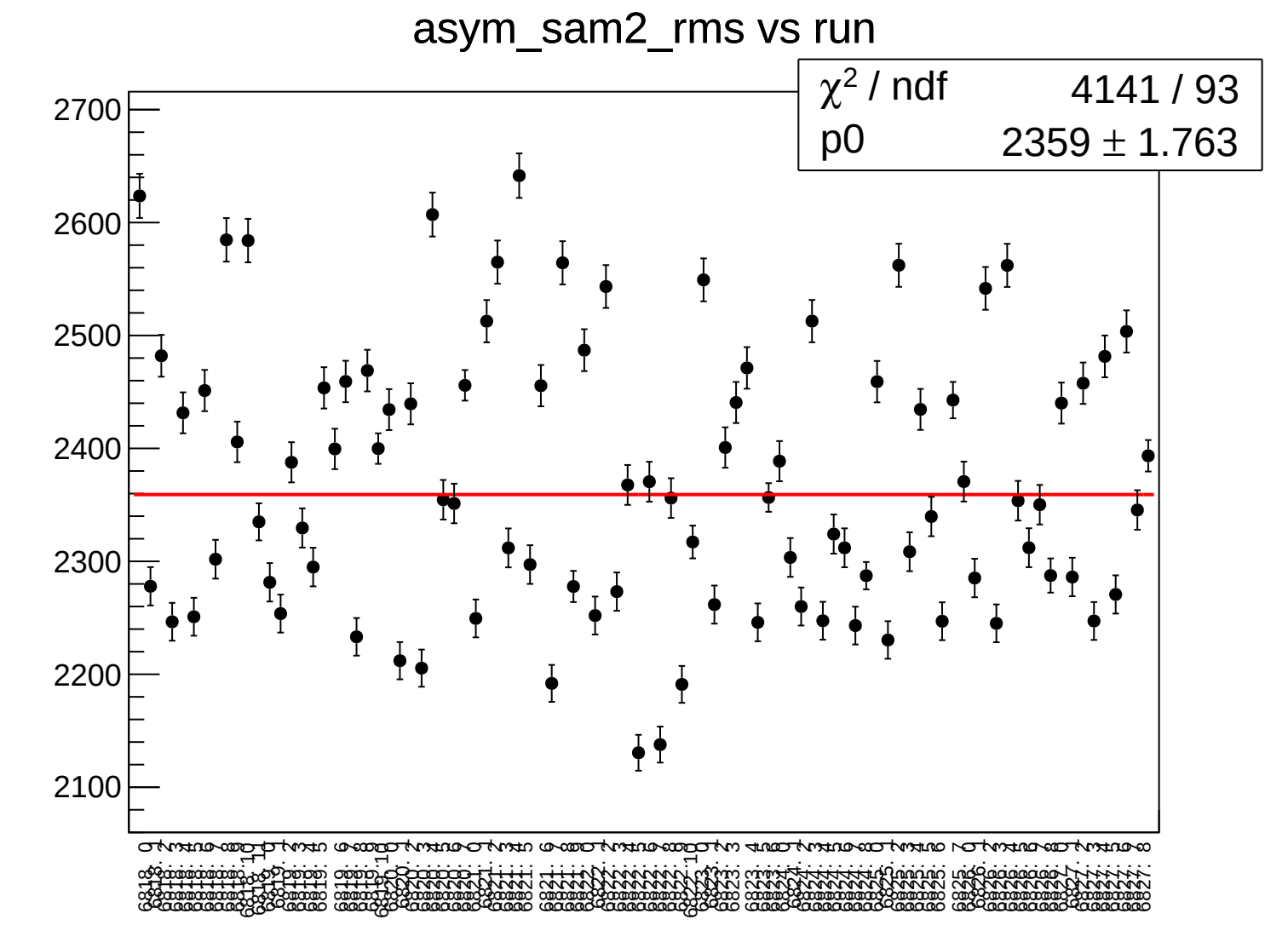

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 80.91 / 93
p0 −4831 ± 2482
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 94
Mean −279.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

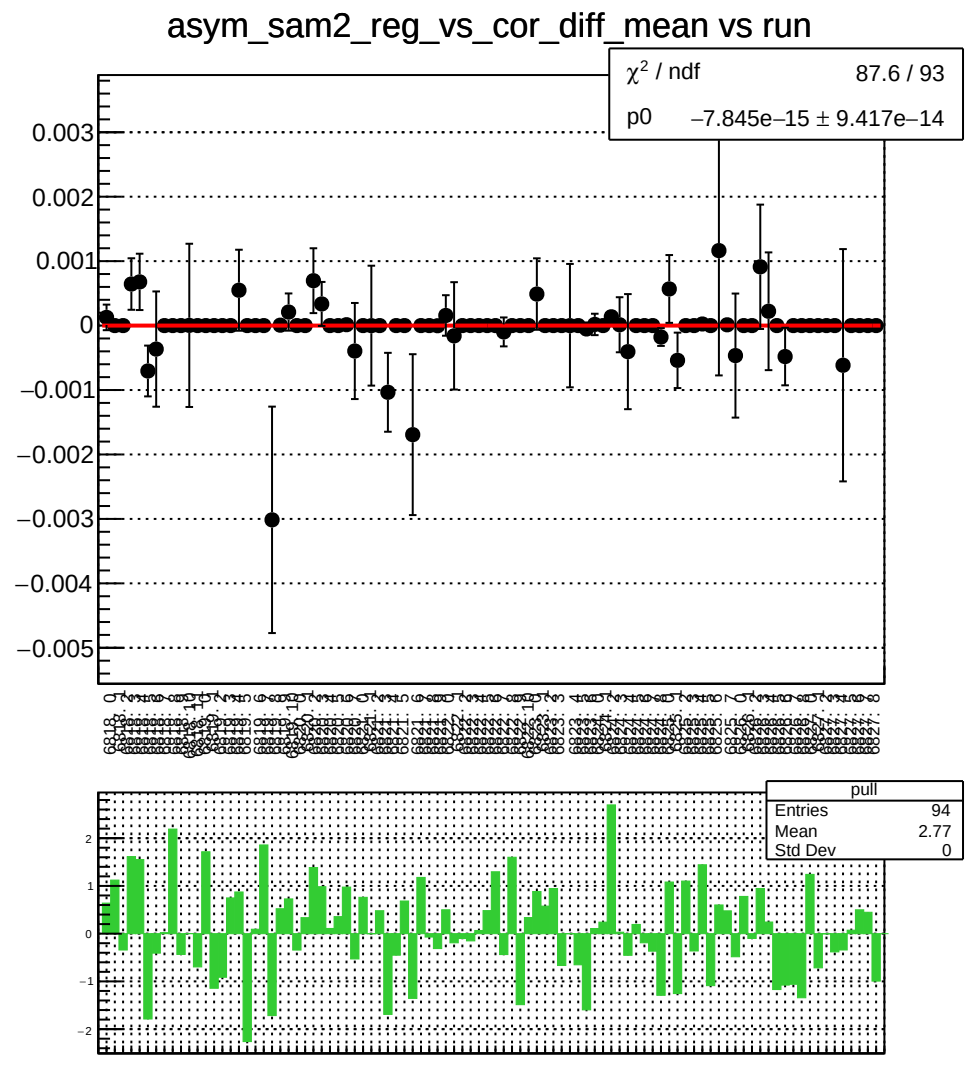

pull1D
Entries 94
Mean −0.007338
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

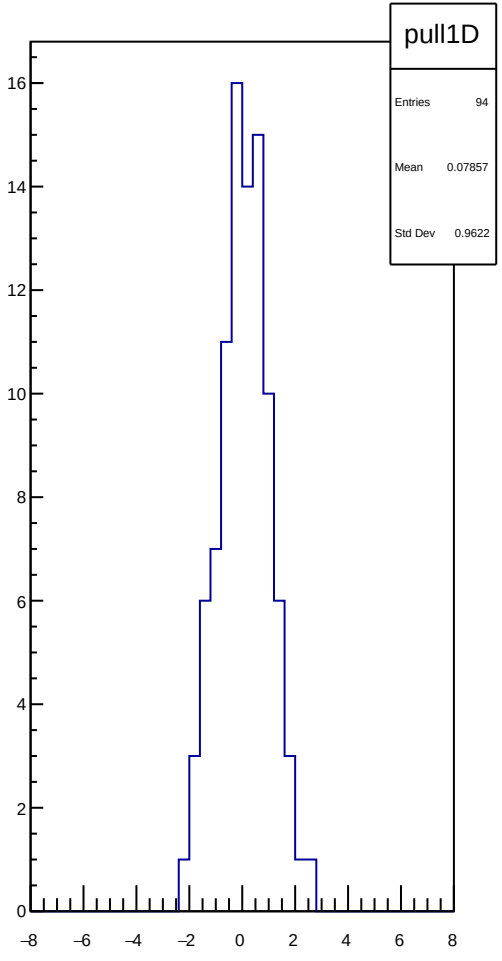

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 3063 / 93
p0 2349 ± 1.755
2600
2500
2400
2300
2200
2100

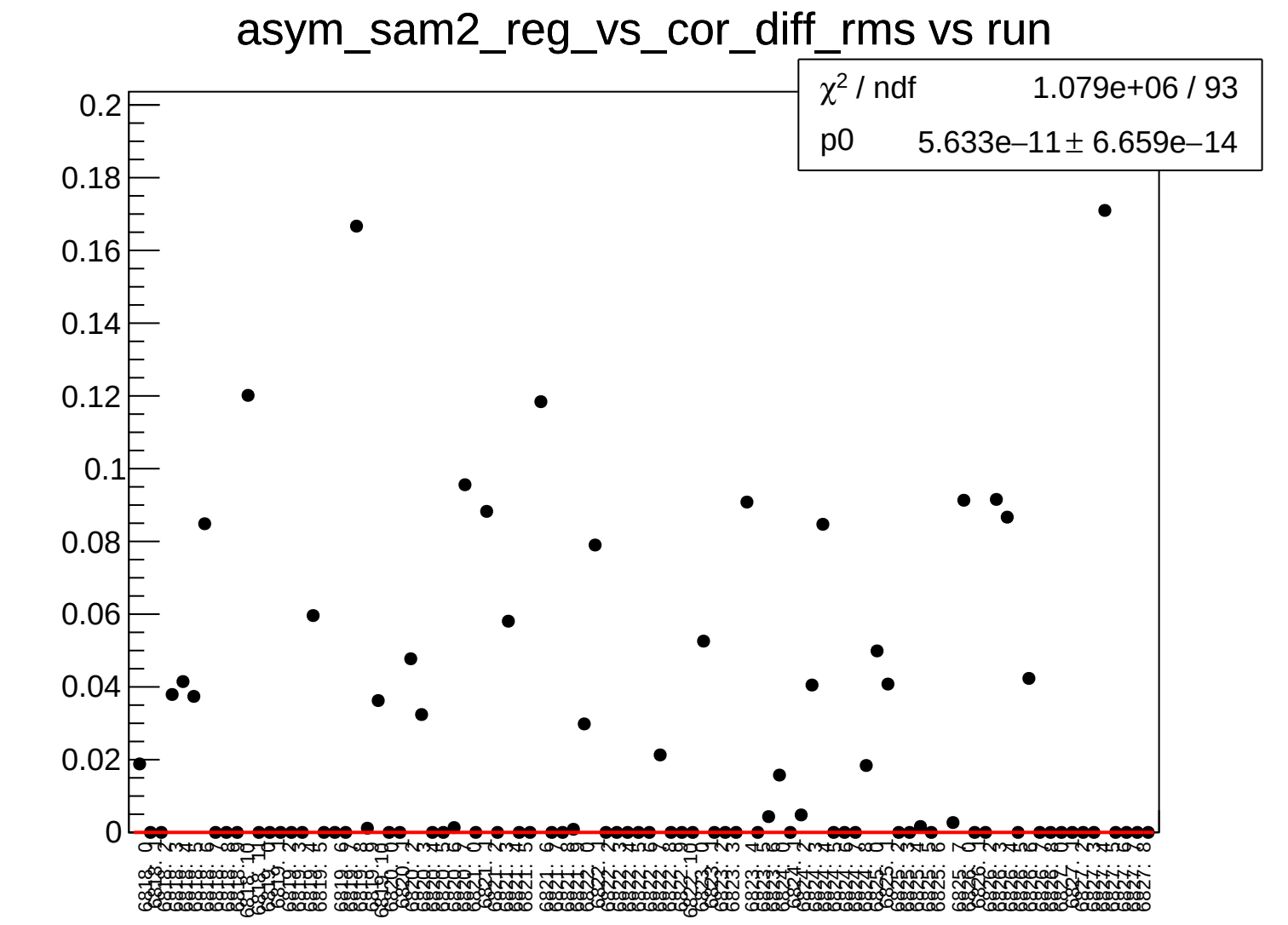

asym_sam2_mean vs run
×10^3
χ^2 / ndf 83.64 / 93
p0 5050 ± 2493
pull
Entries 94
Mean −172.5
Std Dev 0

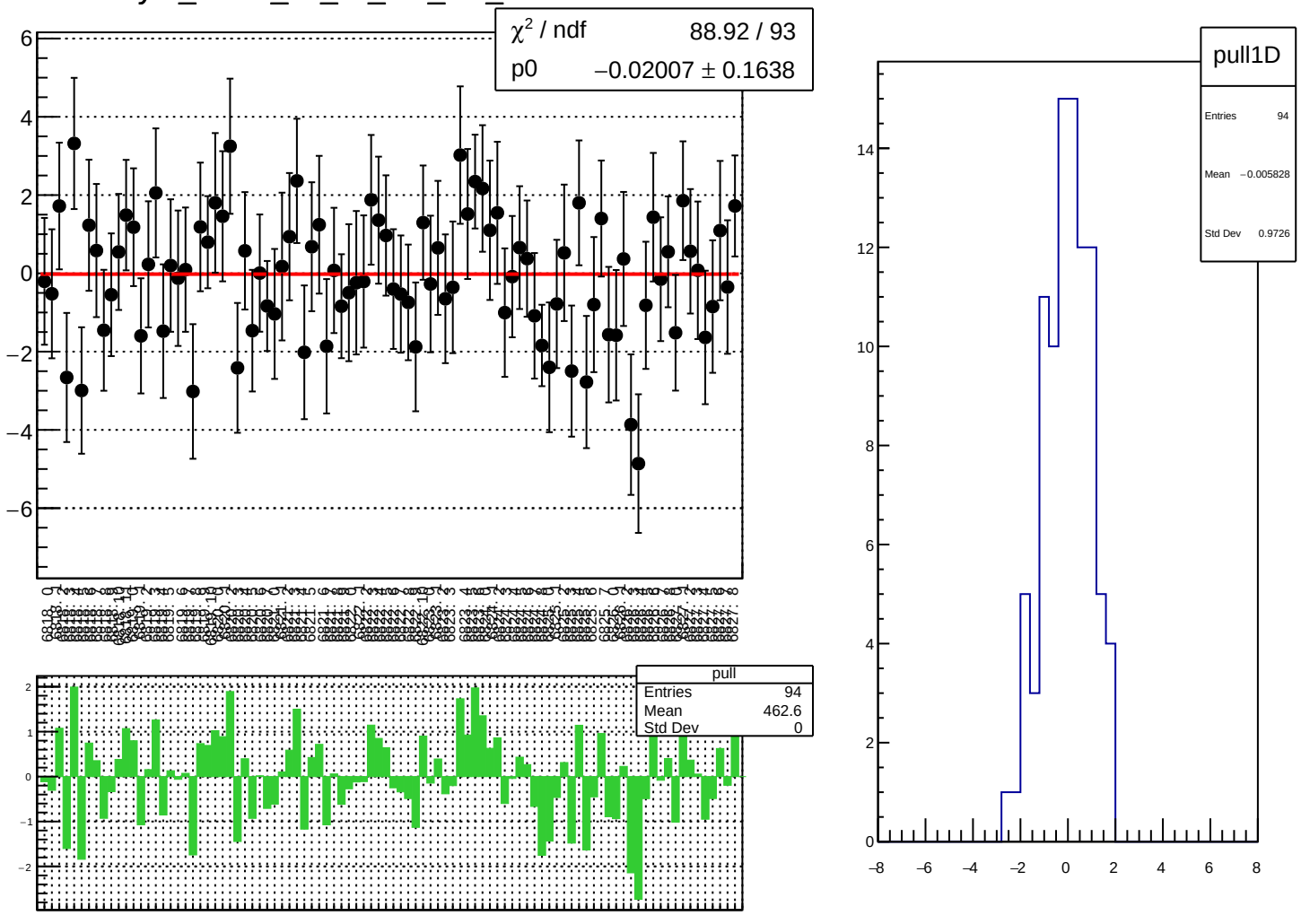

pull1D
Entries 94
Mean 0.009986
Std Dev 0.9432

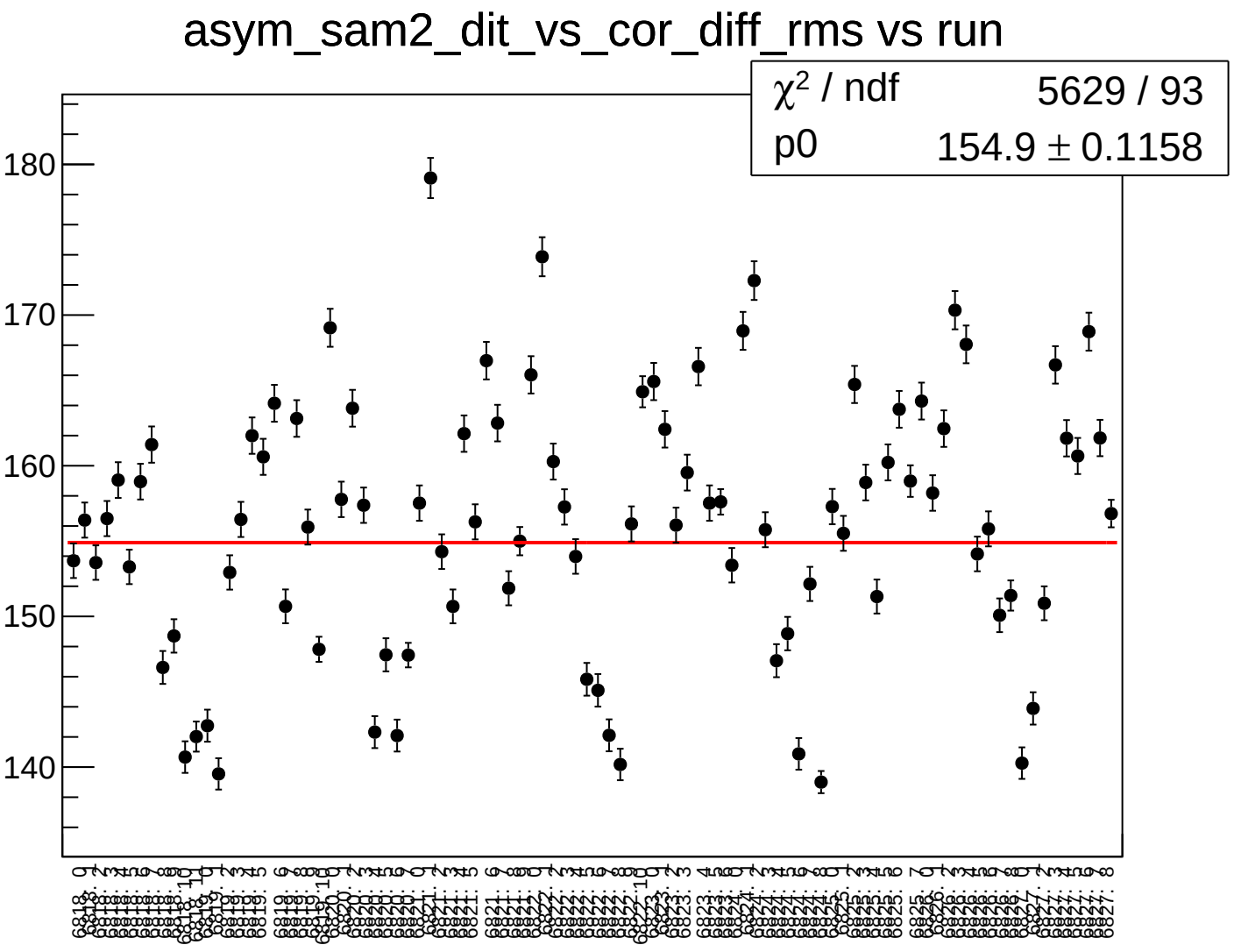

asym_sam2_rms vs run
χ² / ndf 4141 / 93
p0 2359 ± 1.763
2700
2600
2500
2400
2300
2200
2100

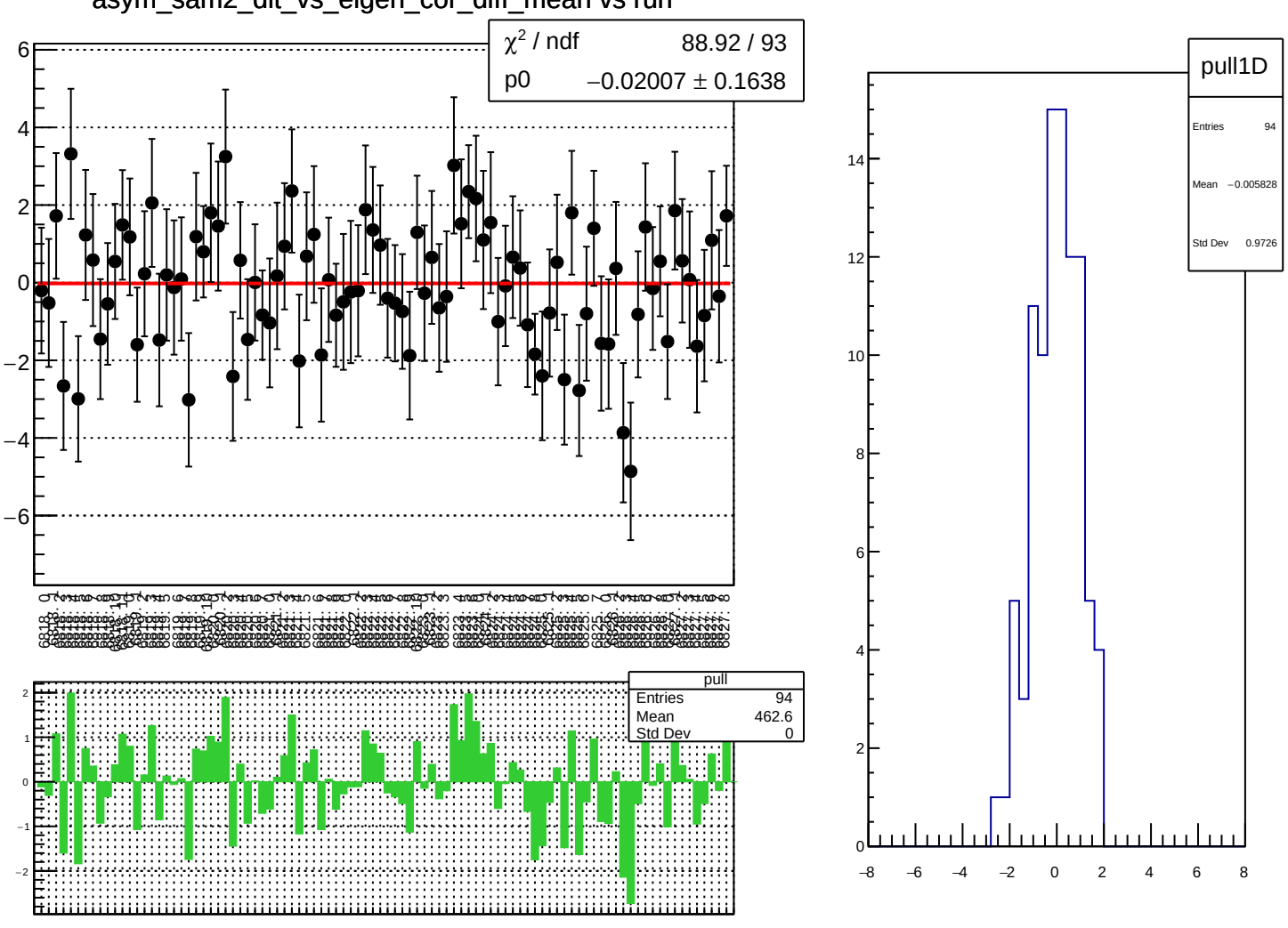

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 87.6 / 93
p0 −7.845e−15 ± 9.417e−14
pull
Entries 94
Mean 2.77
Std Dev 0

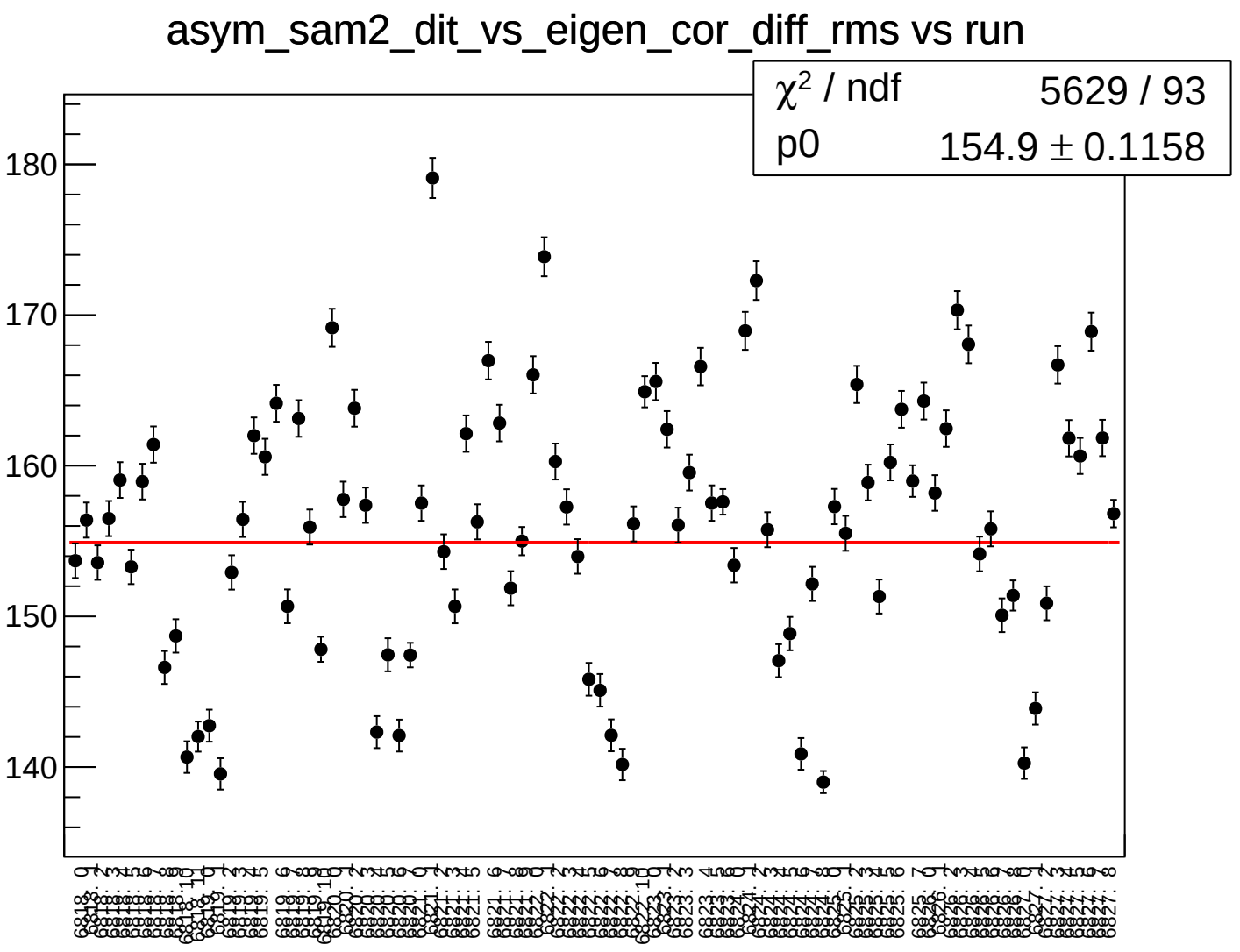

pull1D
Entries 94
Mean 0.07857
Std Dev 0.9622

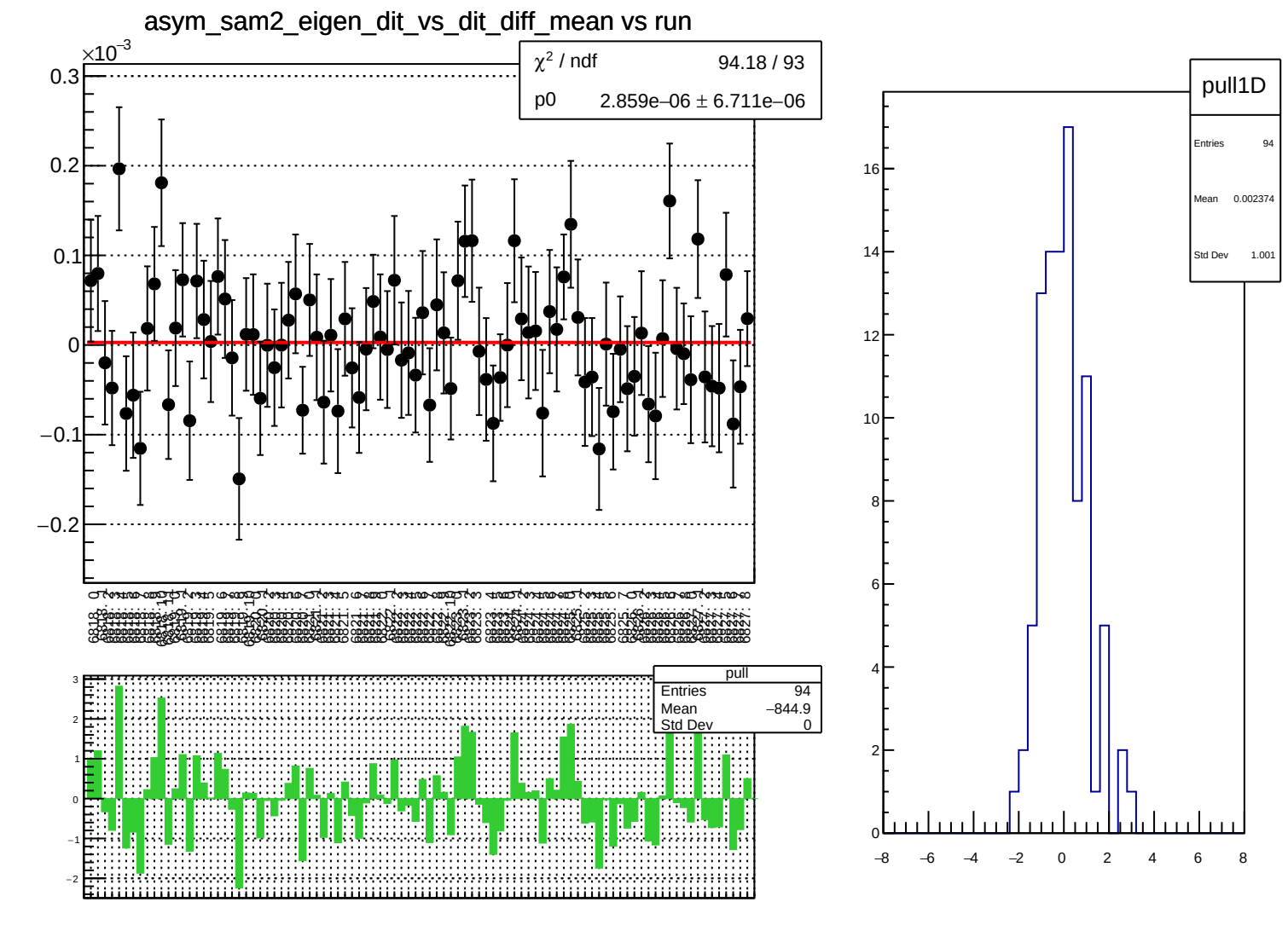

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 93
p0 5.633e−11 ± 6.659e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

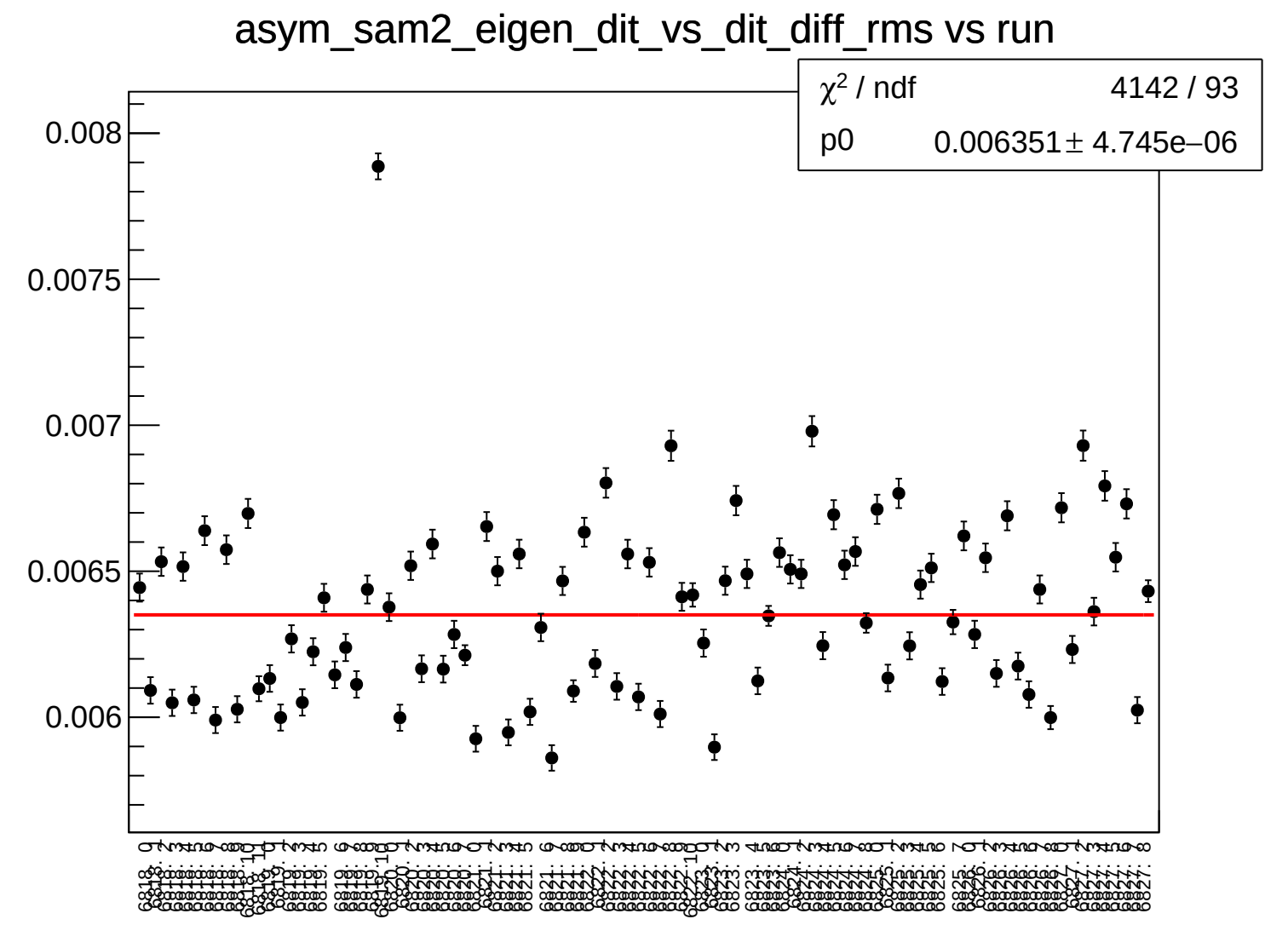

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 88.92 / 93
p0 −0.02007 ± 0.1638
pull
Entries 94
Mean 462.6
Std Dev 0
pull1D
Entries 94
Mean −0.005828
Std Dev 0.9726

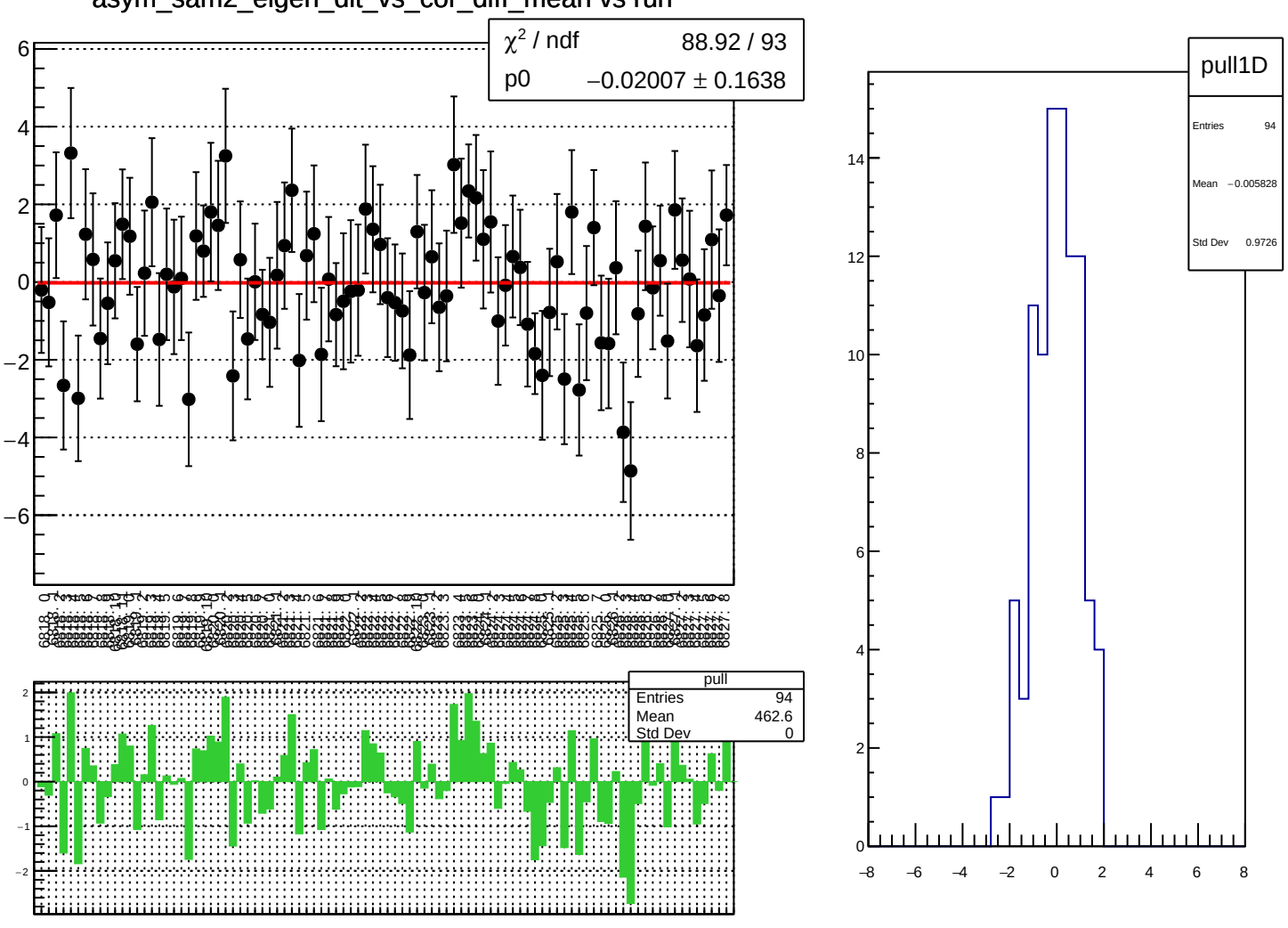

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 5629 / 93
p0 154.9 ± 0.1158
180
170
160
150
140

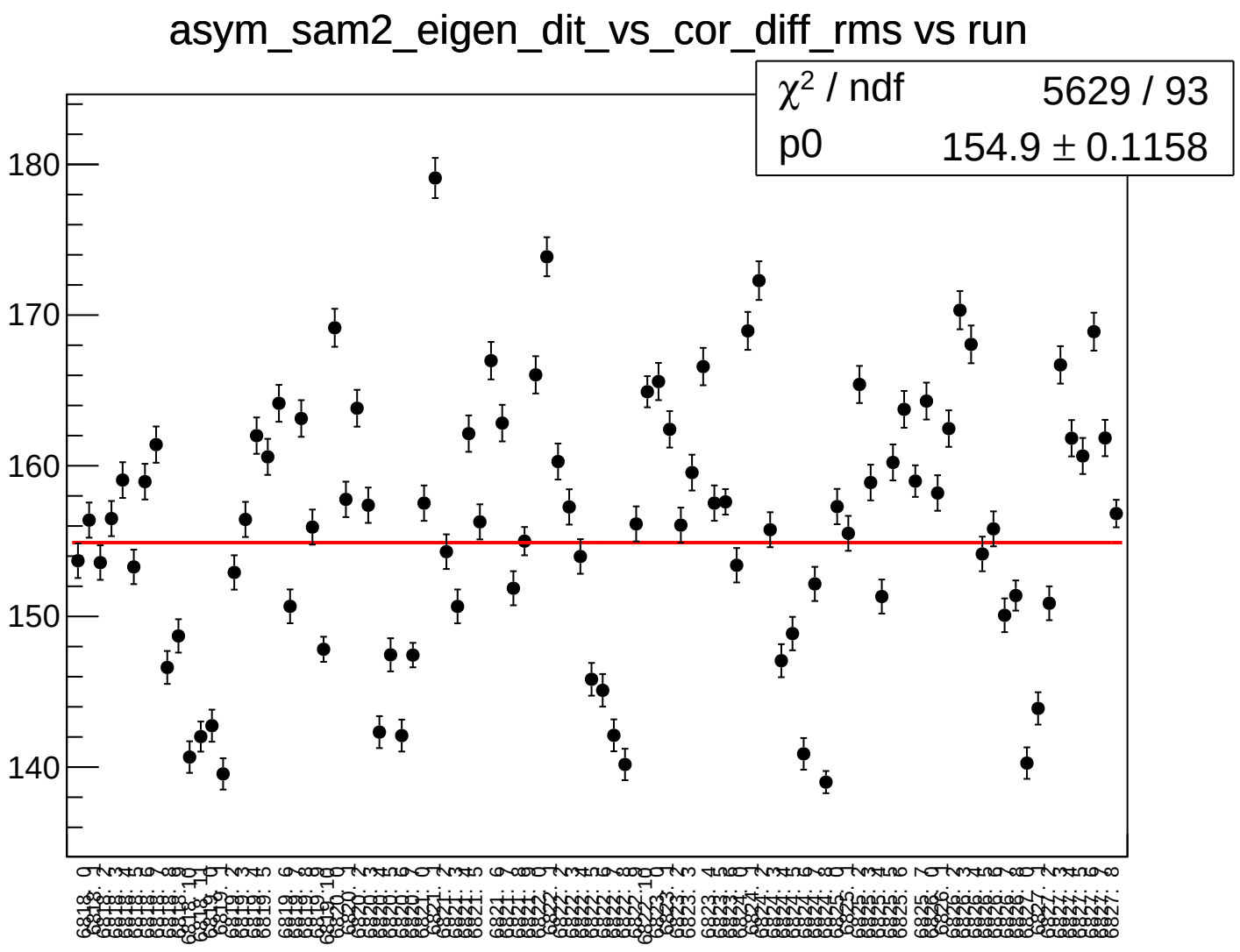

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.92 / 93
p0 −0.02007 ± 0.1638
pull
Entries 94
Mean 462.6
Std Dev 0
pull1D
Entries 94
Mean −0.005828
Std Dev 0.9726

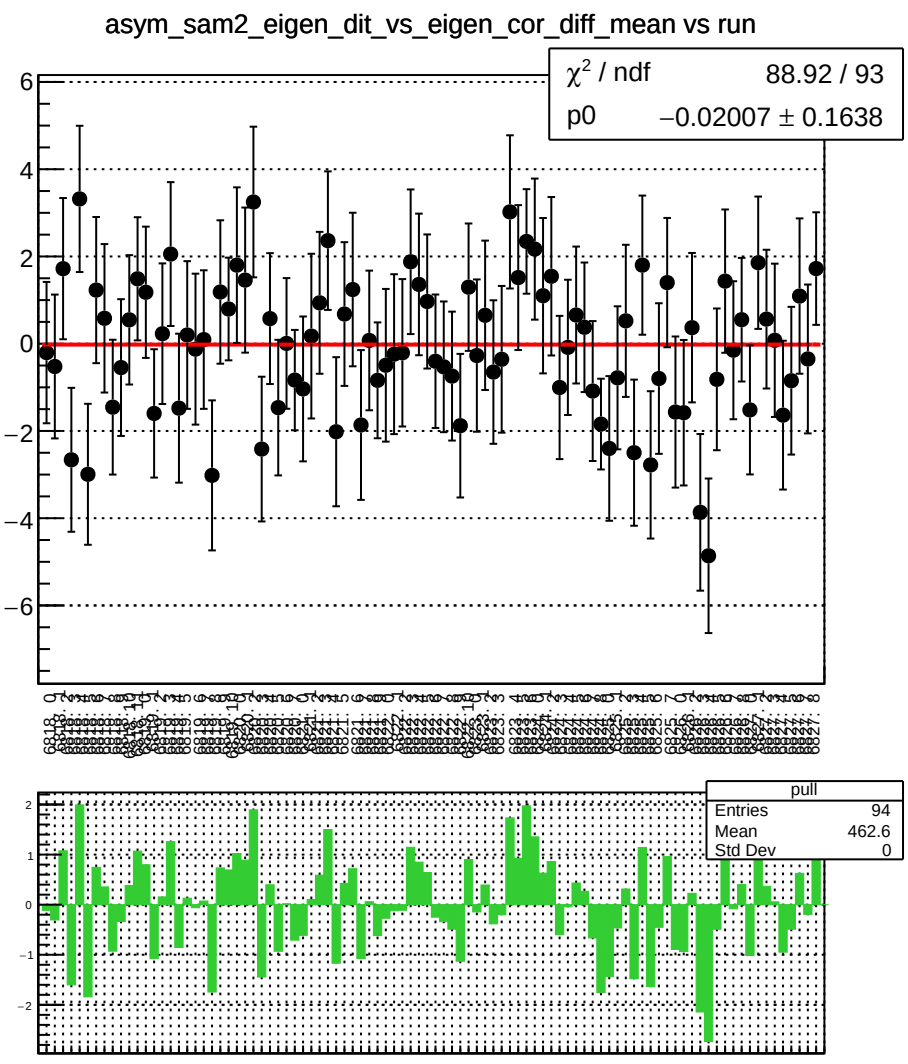

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5629 / 93
p0 154.9 ± 0.1158
180
170
160
150
140

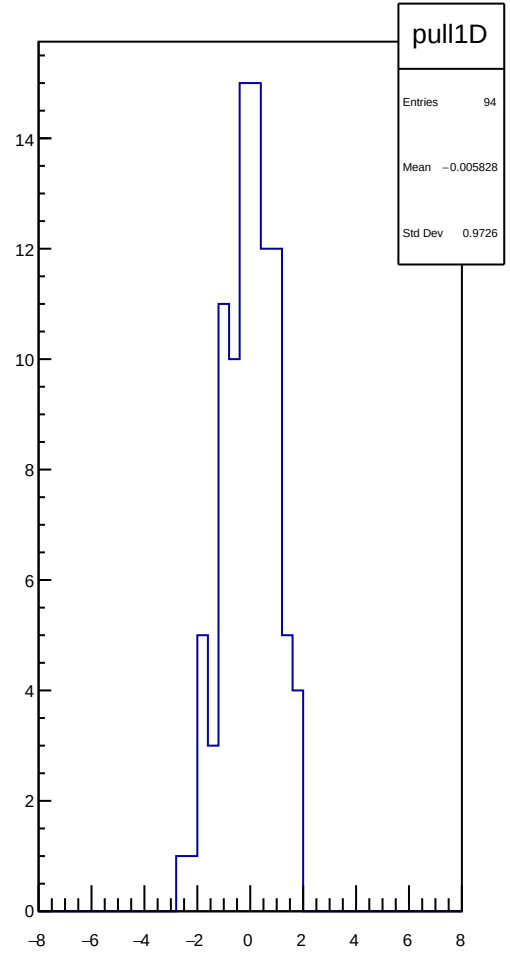

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.18 / 93
p0 2.859e−06 ± 6.711e−06
pull
Entries 94
Mean −844.9
Std Dev 0
pull1D
Entries 94
Mean 0.002374
Std Dev 1.001

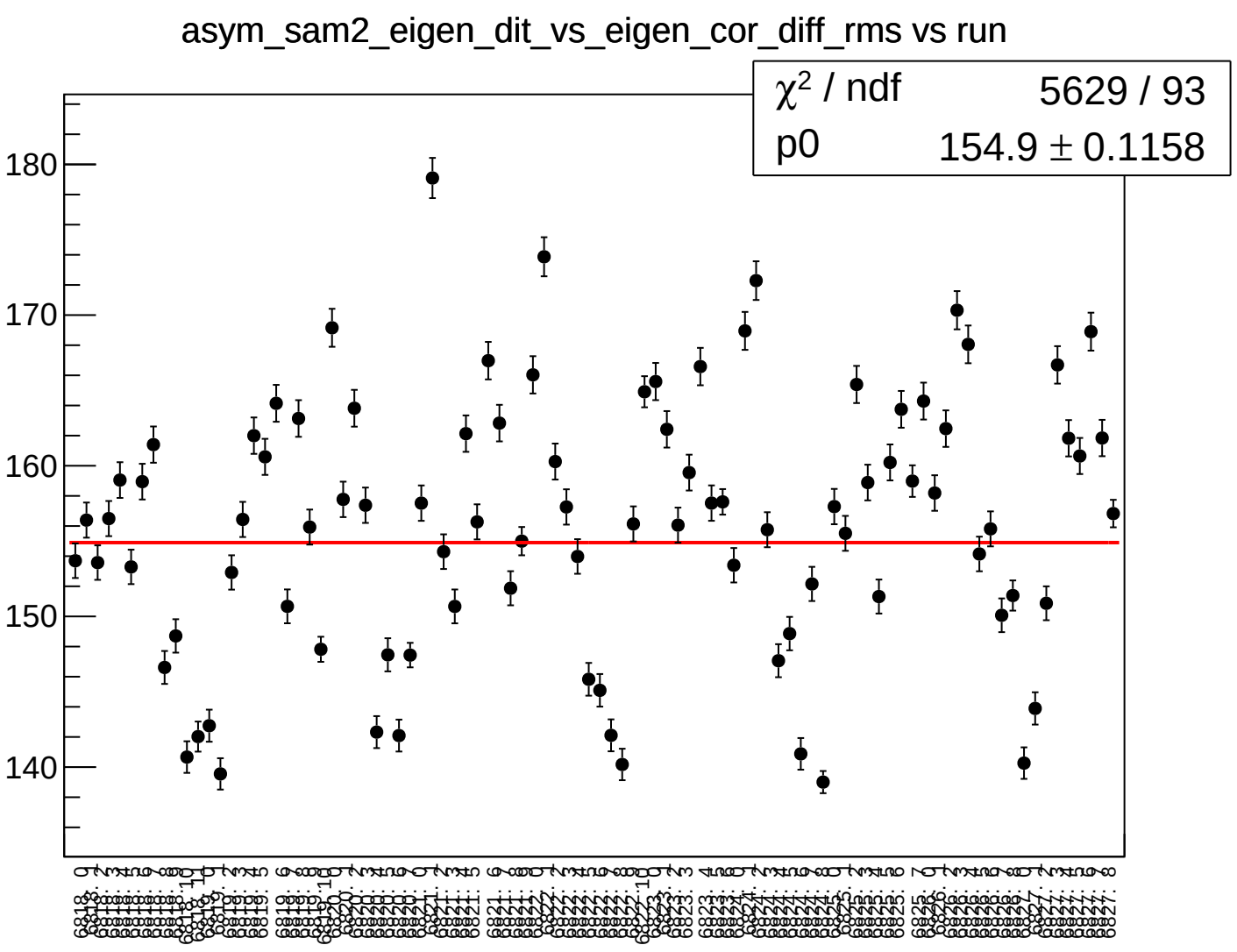

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4142 / 93
p0 0.006351 ± 4.745e−06
0.008
0.0075
0.007
0.0065
0.006

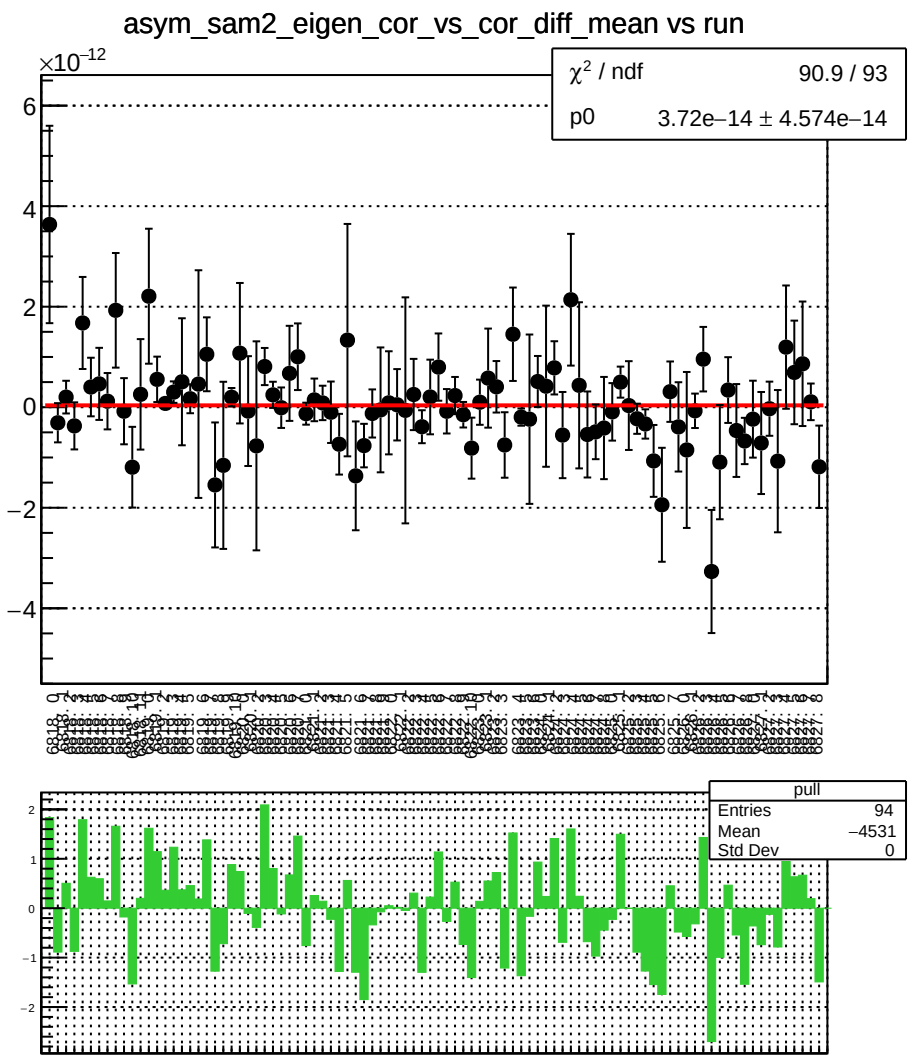

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.92 / 93
p0 −0.02007 ± 0.1638
pull
Entries 94
Mean 462.6
Std Dev 0
pull1D
Entries 94
Mean −0.005828
Std Dev 0.9726

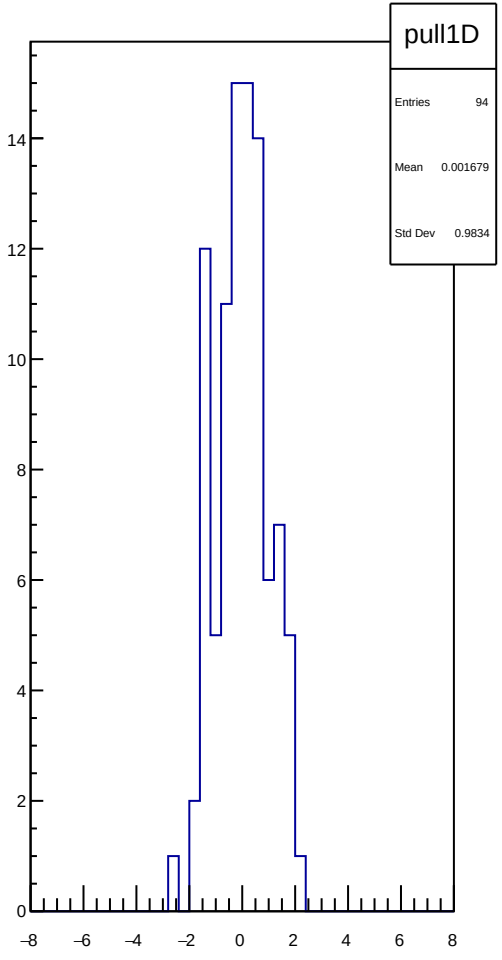

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5629 / 93
p0 154.9 ± 0.1158
180
170
160
150
140

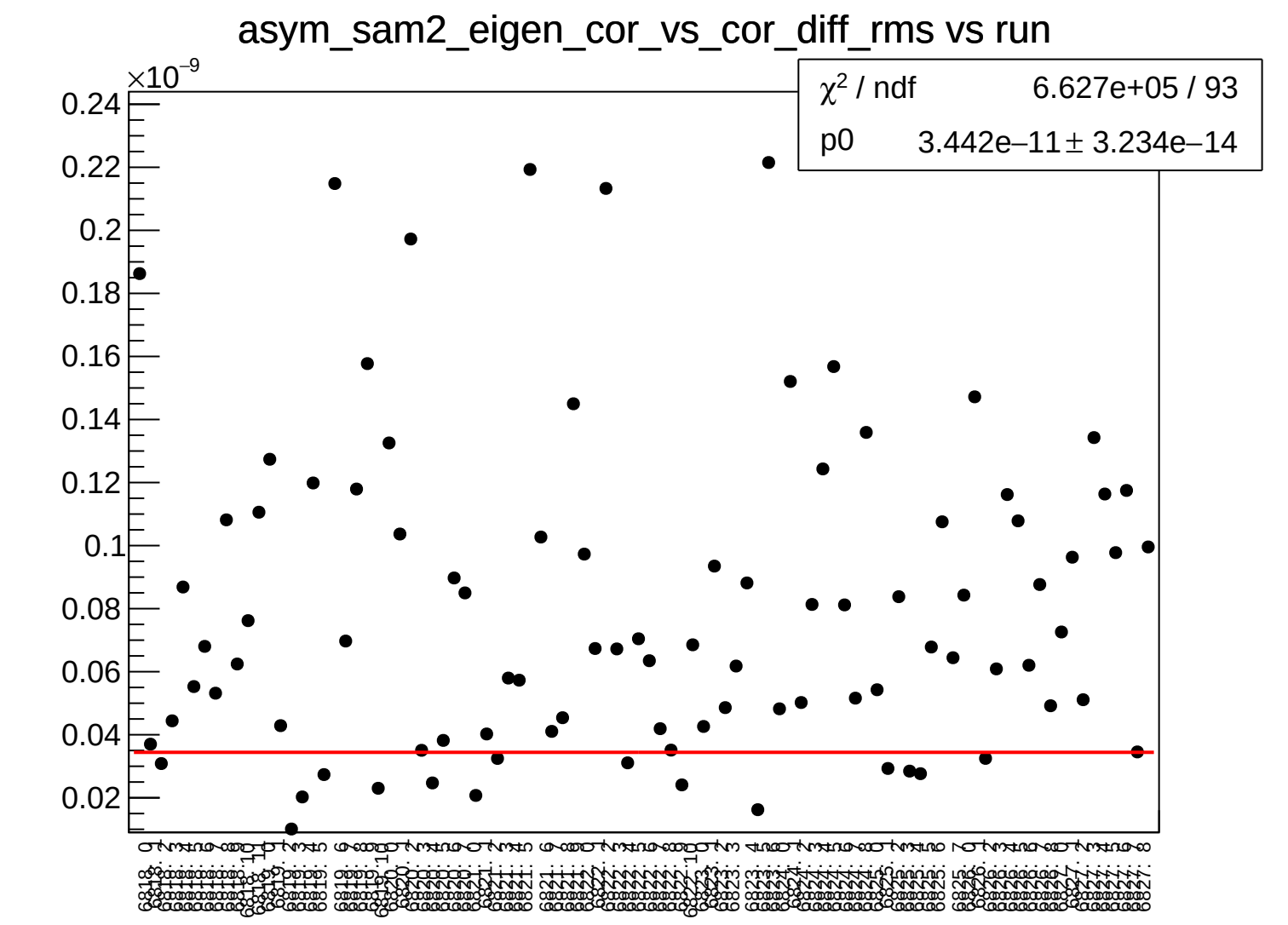

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.92 / 93
p0 −0.02007 ± 0.1638
pull
Entries 94
Mean 462.6
Std Dev 0

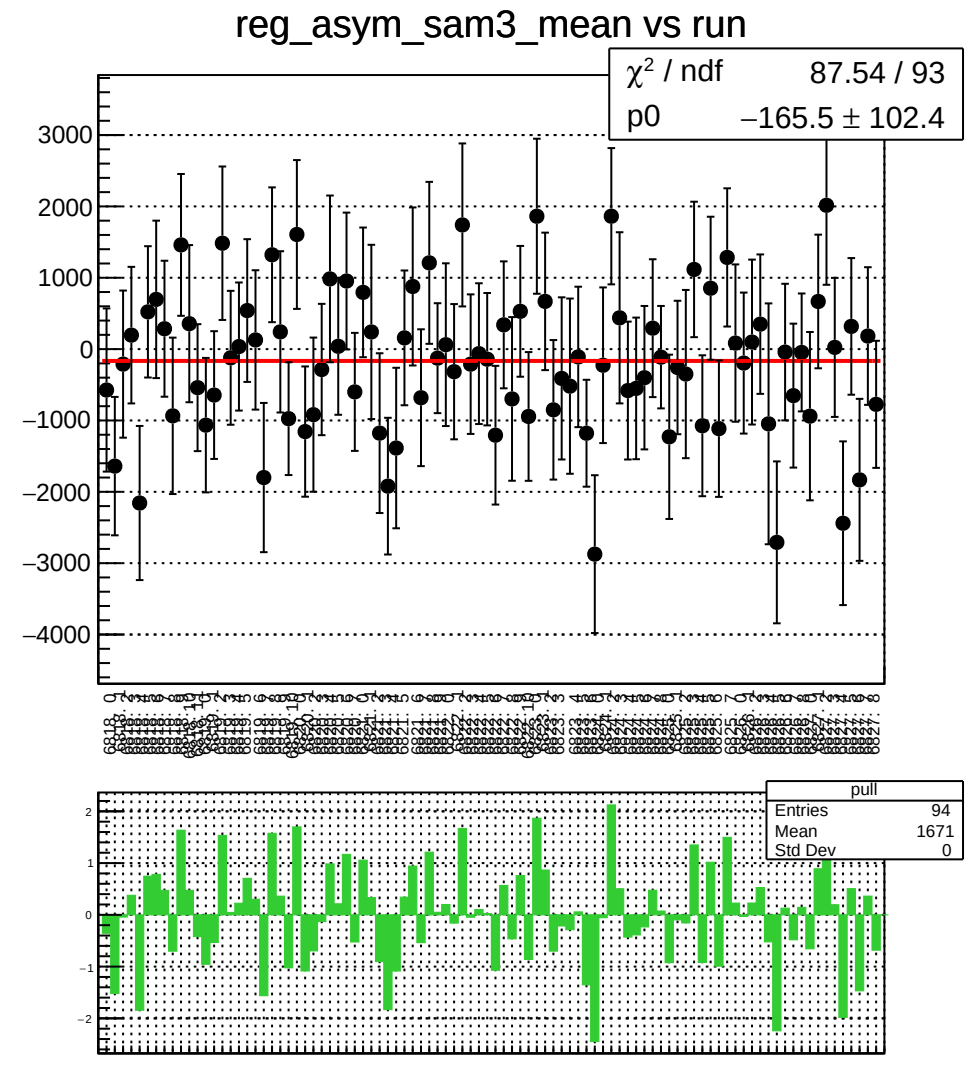

pull1D
Entries 94
Mean −0.005828
Std Dev 0.9726

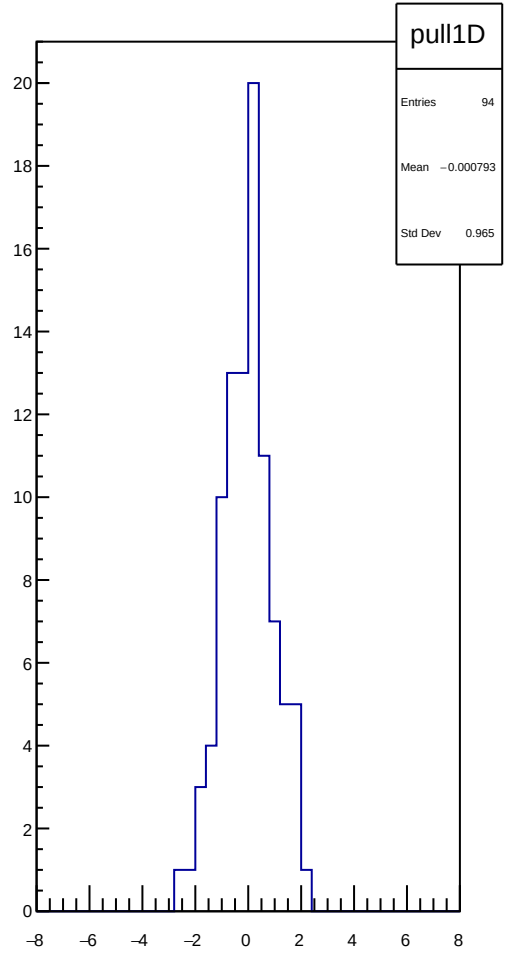

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5629 / 93
p0 154.9 ± 0.1158
180
170
160
150
140

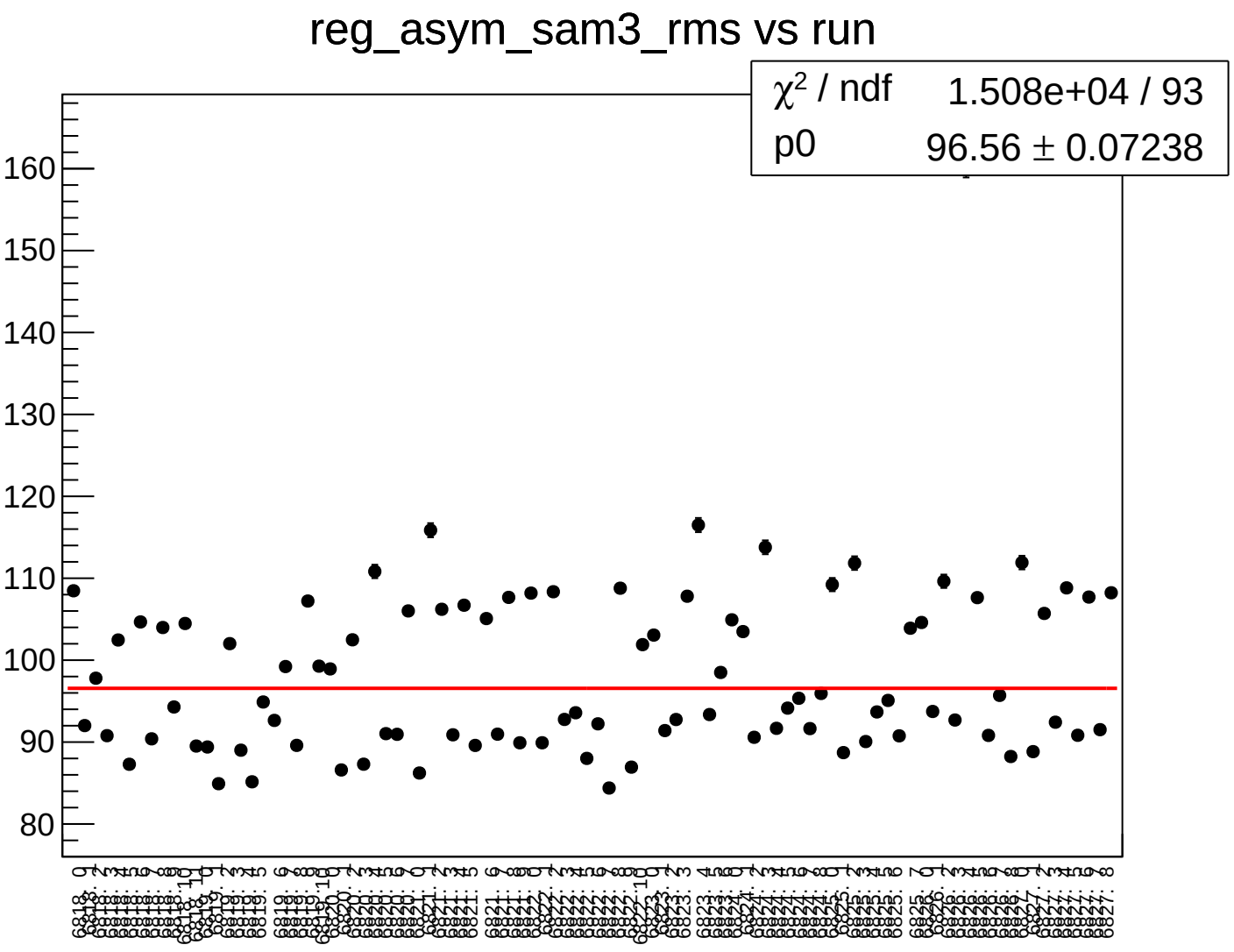

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.9 / 93
p0 3.72e−14 ± 4.574e−14
pull
Entries 94
Mean −4531
Std Dev 0

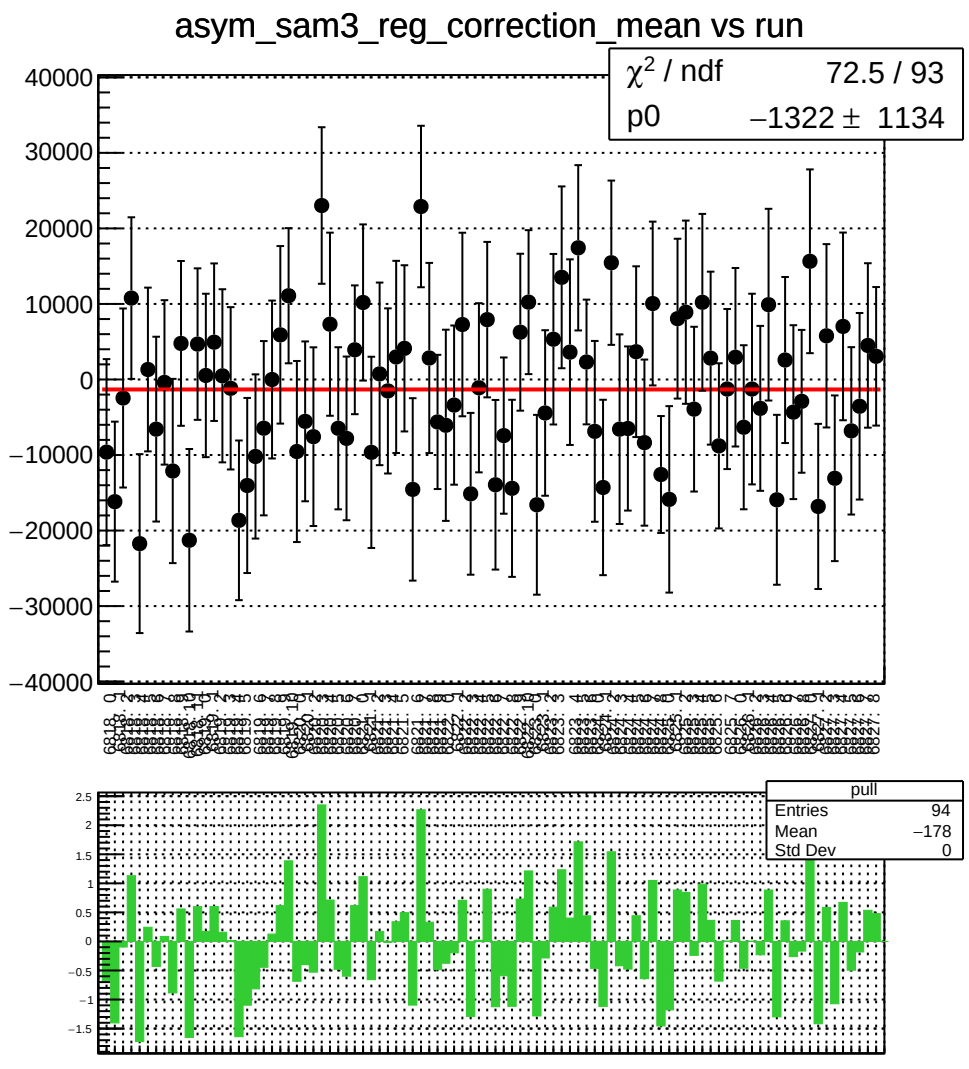

pull1D
Entries 94
Mean 0.001679
Std Dev 0.9834

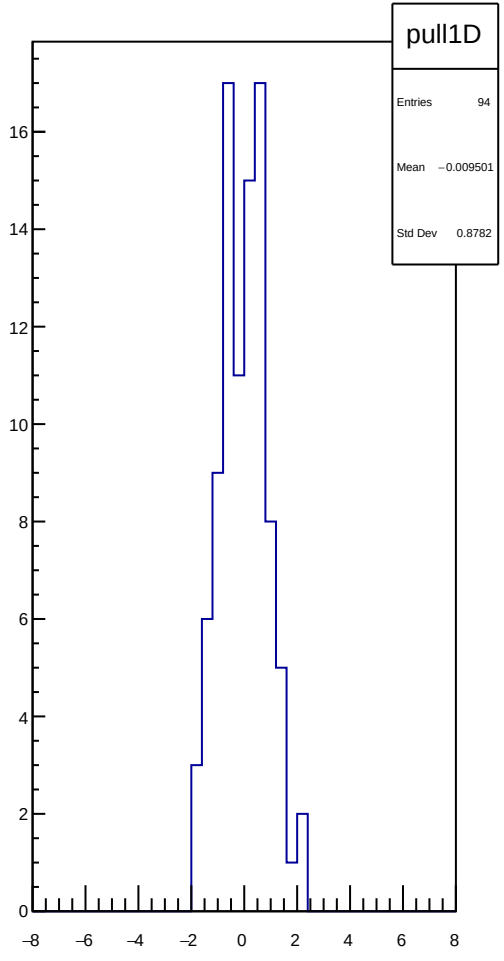

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.627e+05 / 93
p0 3.442e−11 ± 3.234e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

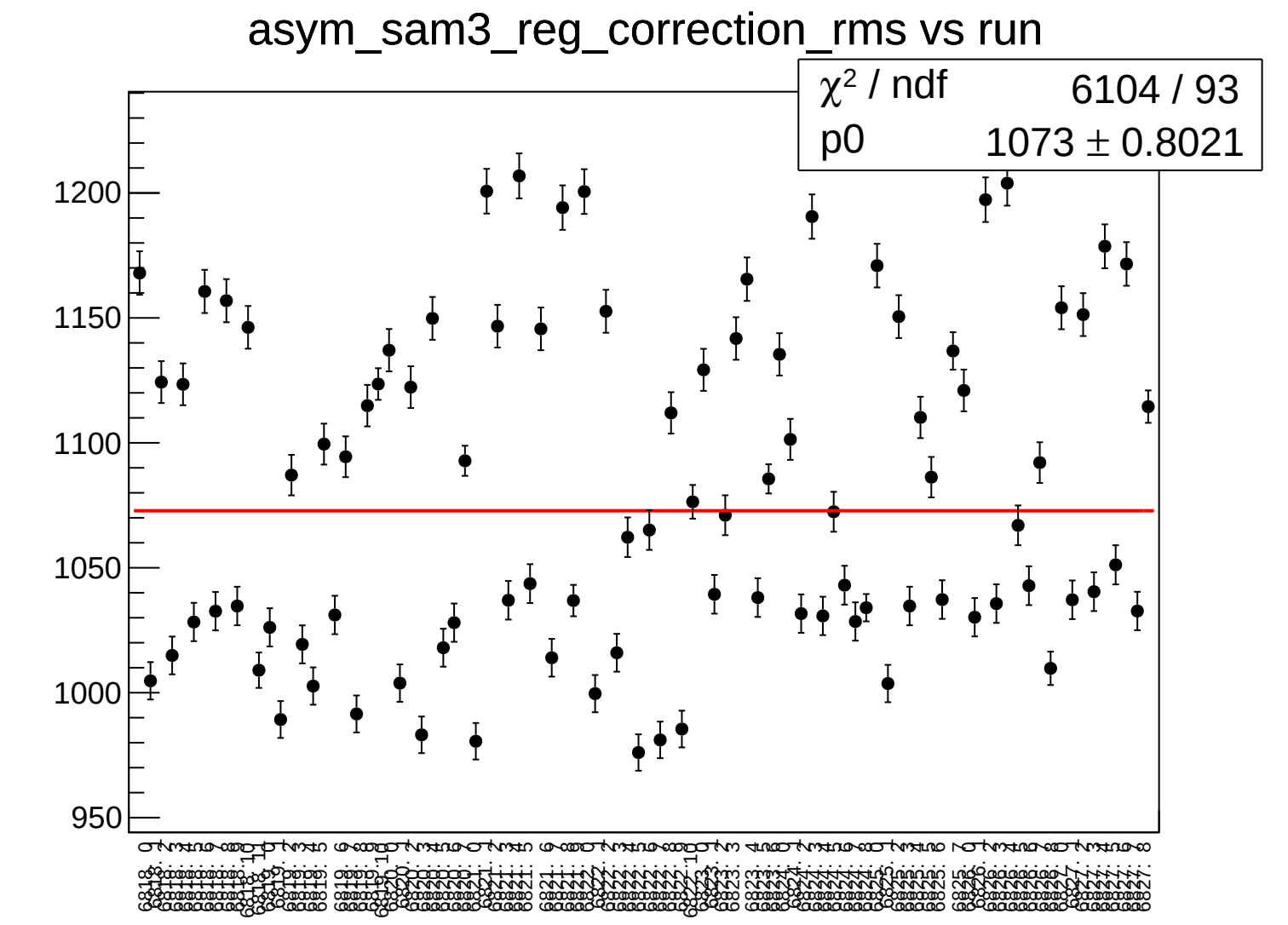

reg_asym_sam3_mean vs run
χ² / ndf 87.54 / 93
p0 −165.5 ± 102.4
pull
Entries 94
Mean 1671
Std Dev 0

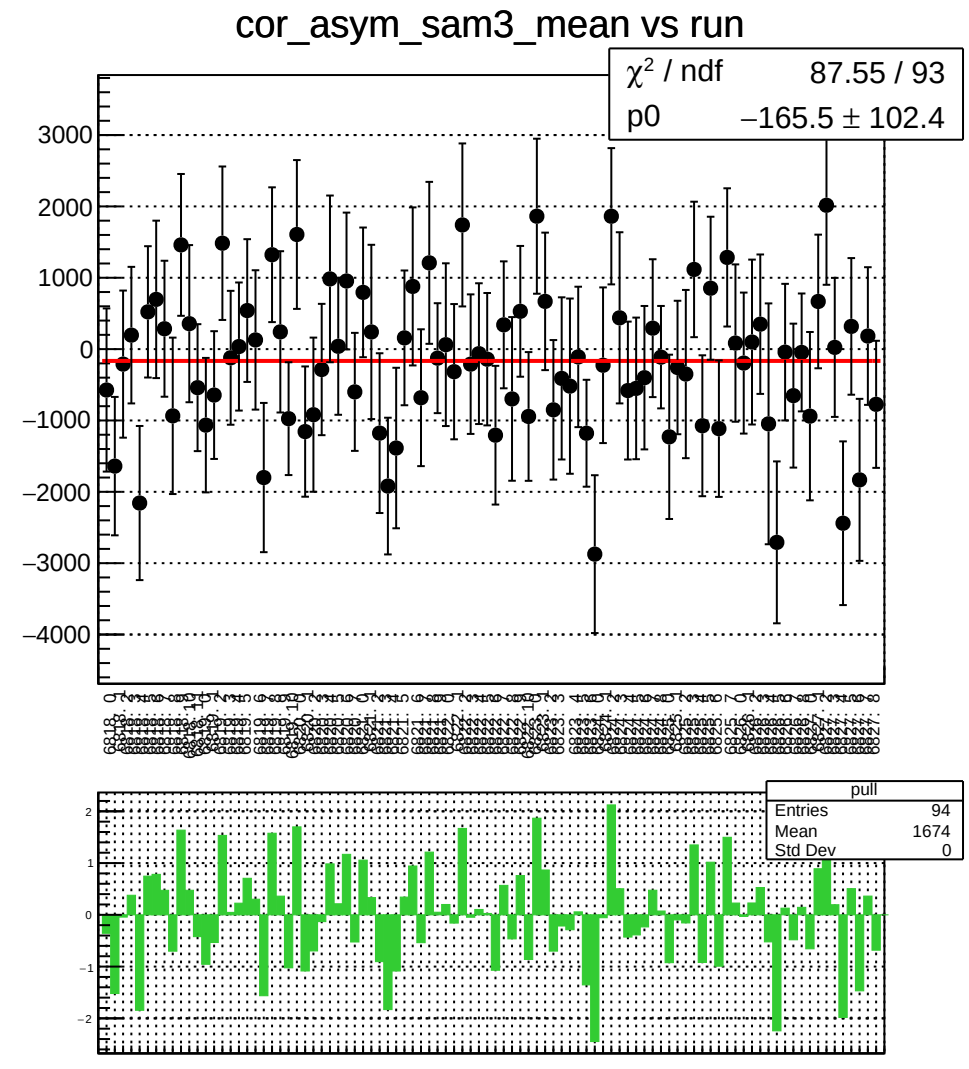

pull1D
Entries 94
Mean −0.000793
Std Dev 0.965

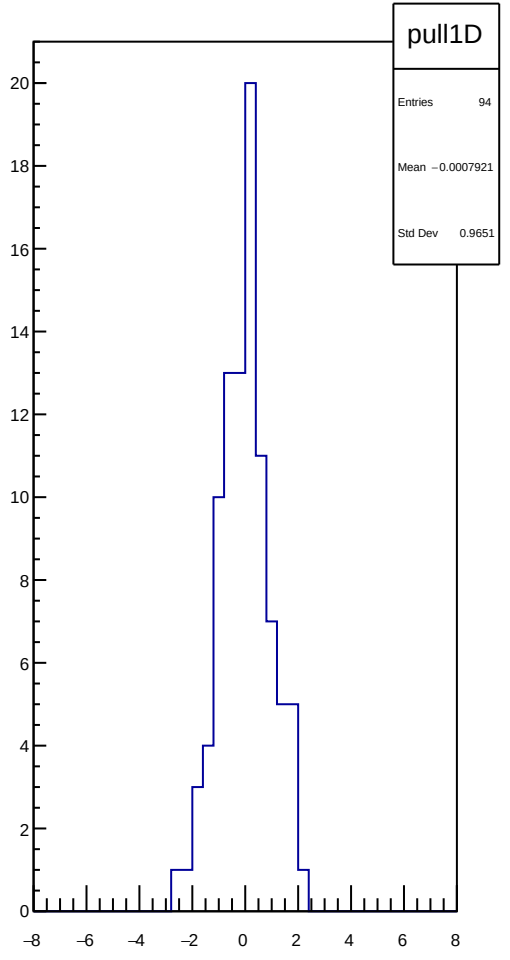

reg_asym_sam3_rms vs run
χ² / ndf 1.508e+04 / 93
p0 96.56 ± 0.07238
160
150
140
130
120
110
100
90
80

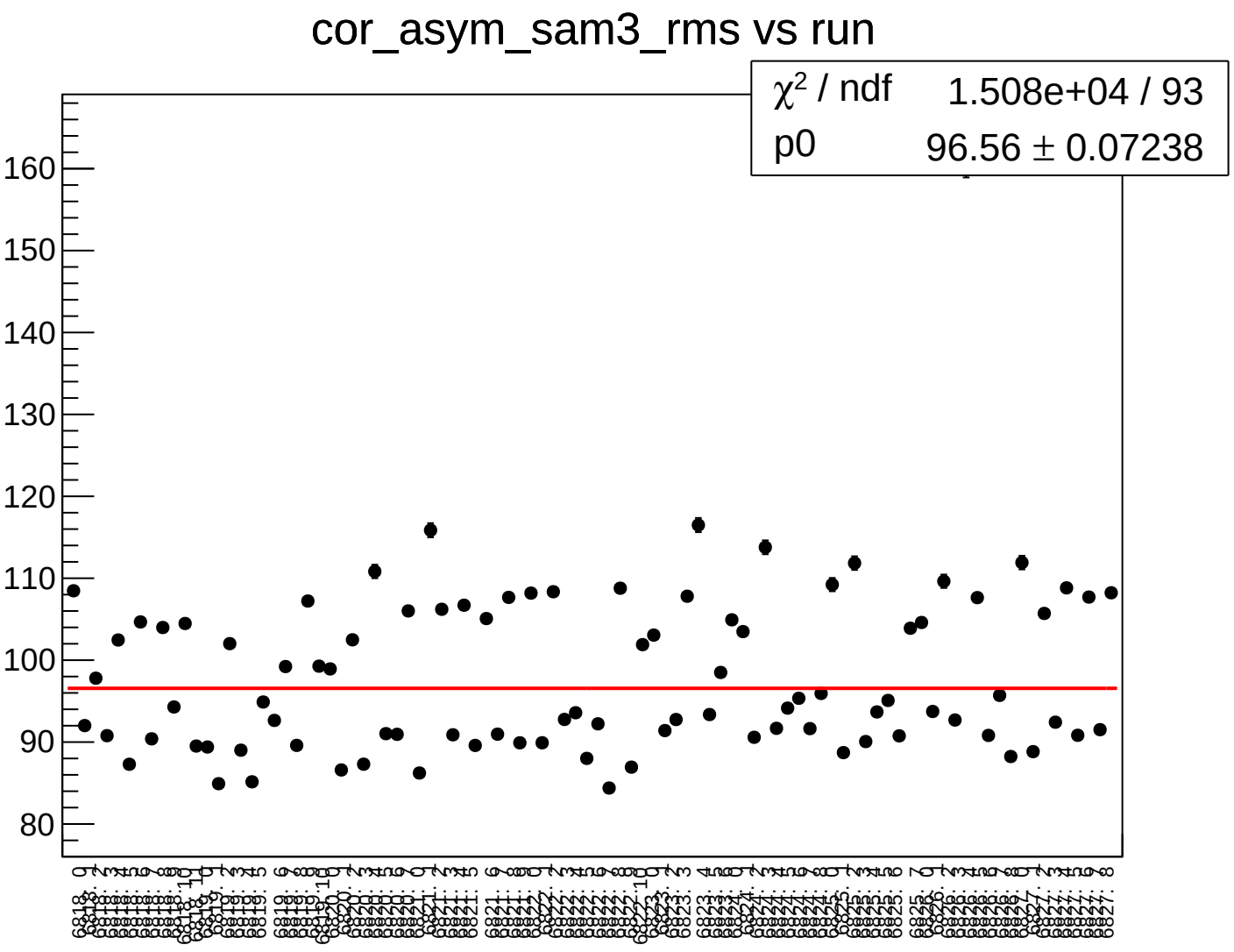

asym_sam3_reg_correction_mean vs run
χ² / ndf 72.5 / 93
p0 −1322 ± 1134
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −178
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

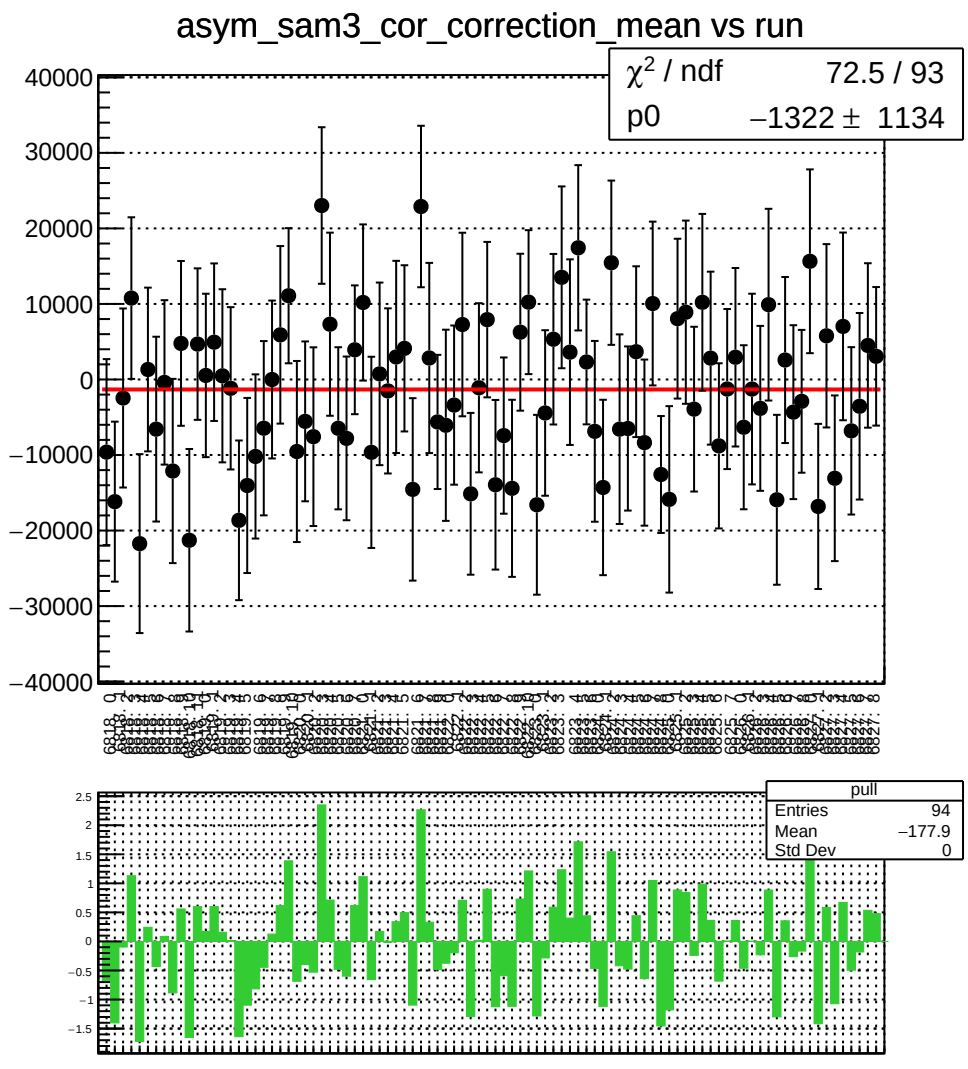

pull1D
Entries 94
Mean −0.009501
Std Dev 0.8782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

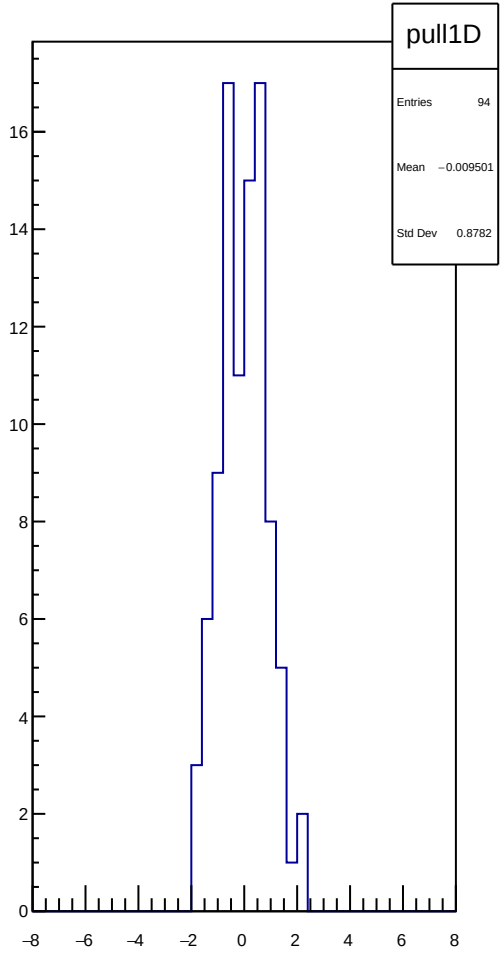

asym_sam3_reg_correction_rms vs run
χ² / ndf 6104 / 93
p0 1073 ± 0.8021
1200
1150
1100
1050
1000
950

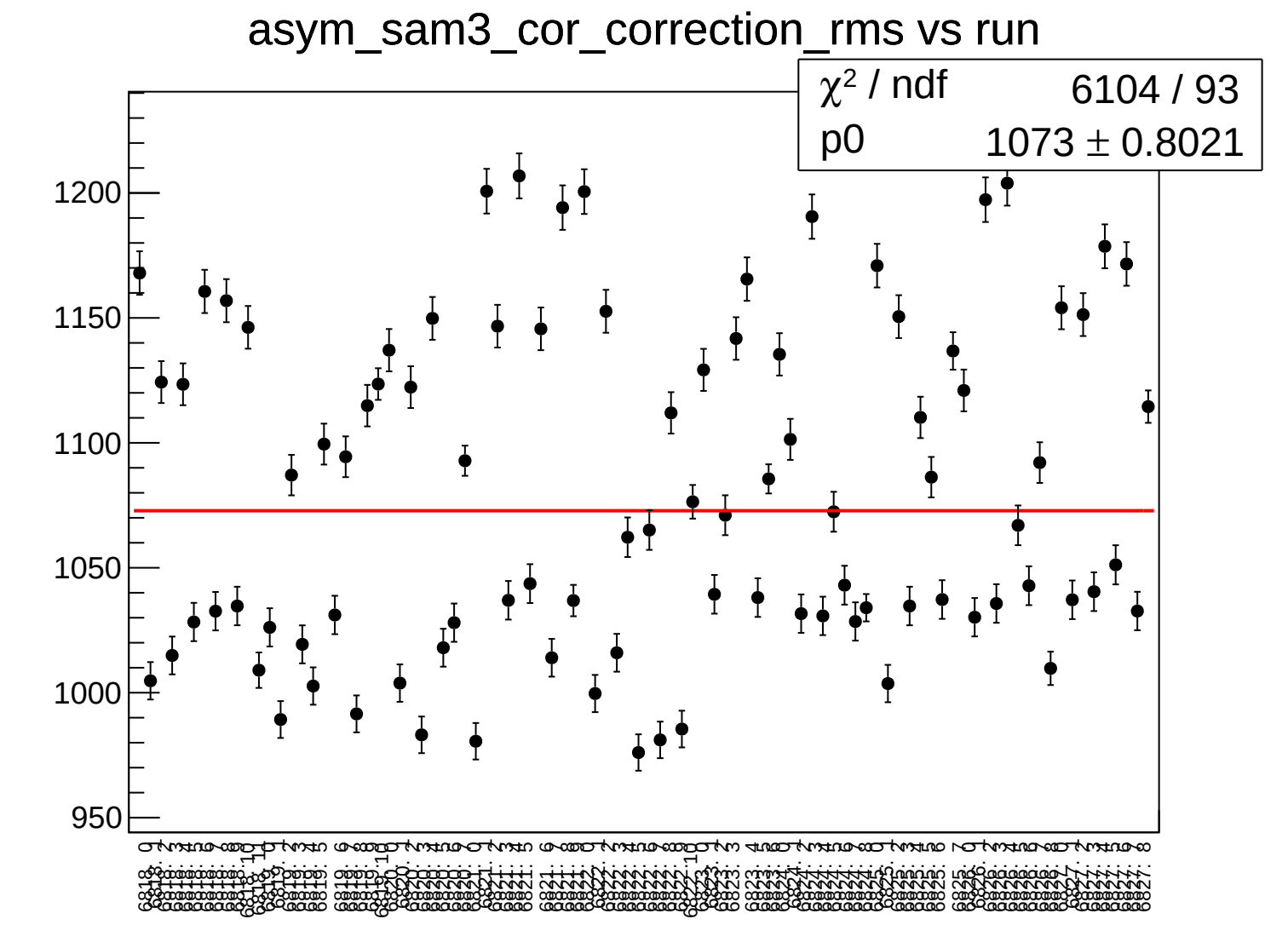

cor_asym_sam3_mean vs run
χ² / ndf 87.55 / 93
p0 −165.5 ± 102.4
pull
Entries 94
Mean 1674
Std Dev 0

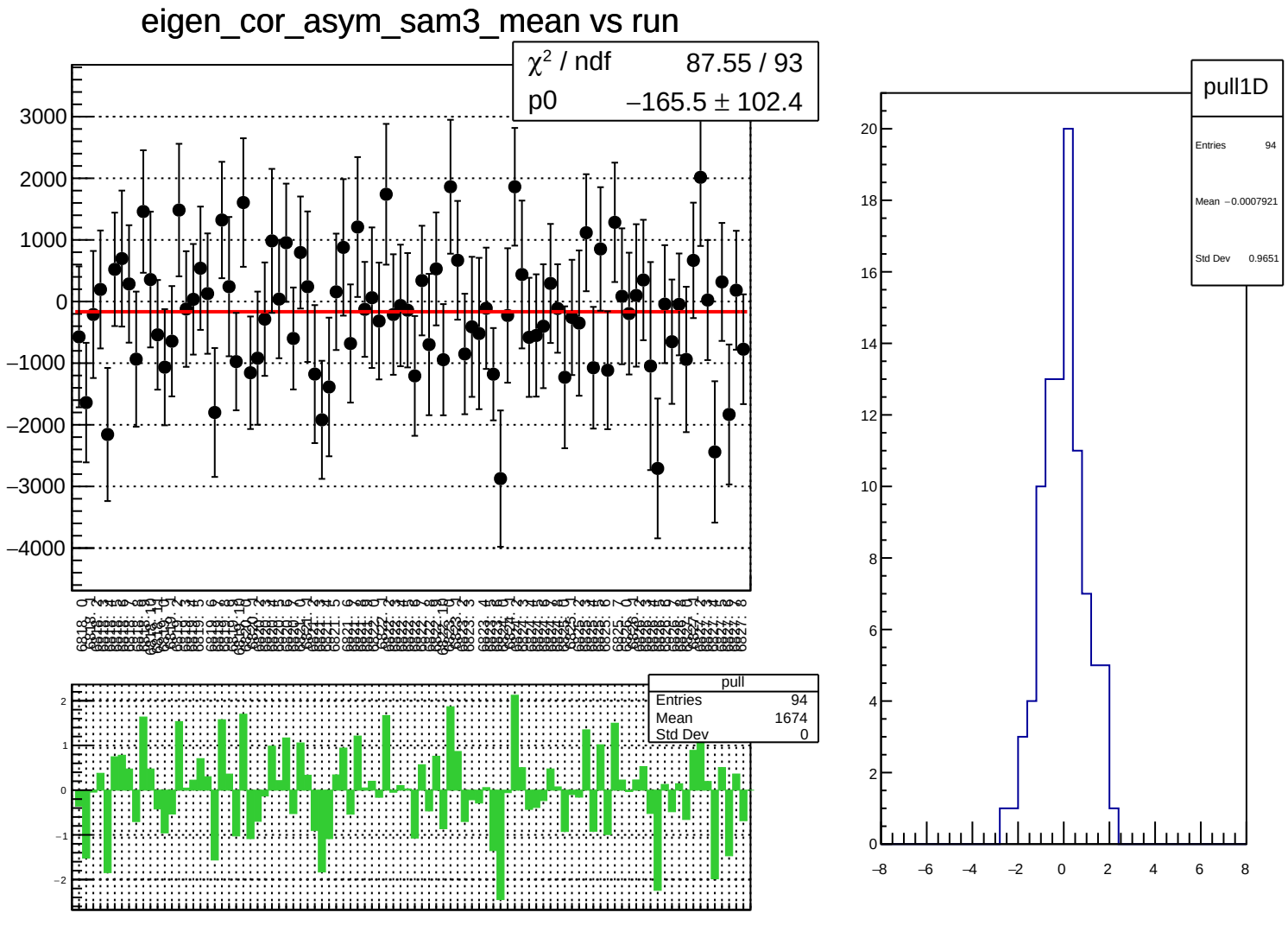

pull1D
Entries 94
Mean −0.0007921
Std Dev 0.9651

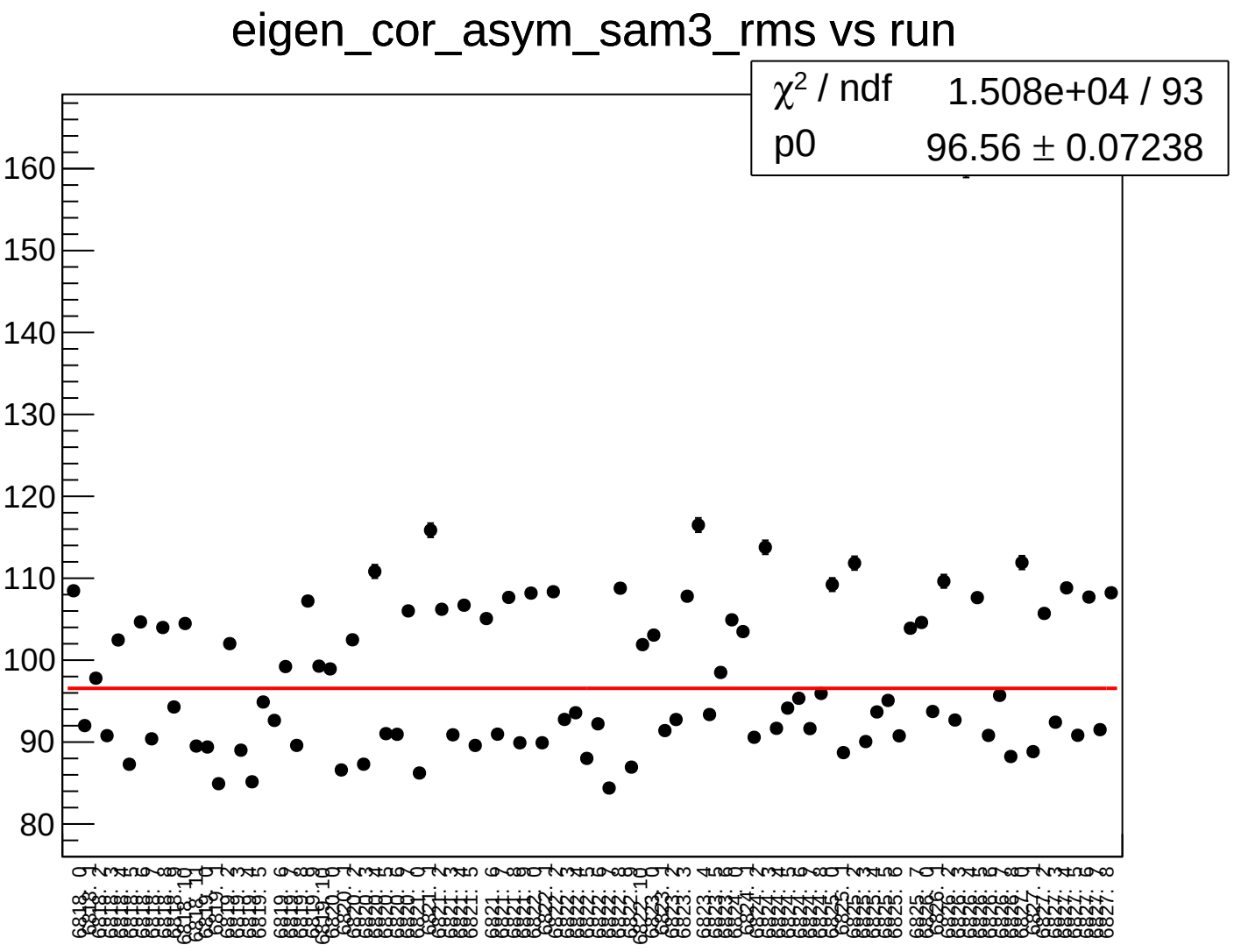

cor_asym_sam3_rms vs run
χ² / ndf 1.508e+04 / 93
p0 96.56 ± 0.07238
160
150
140
130
120
110
100
90
80

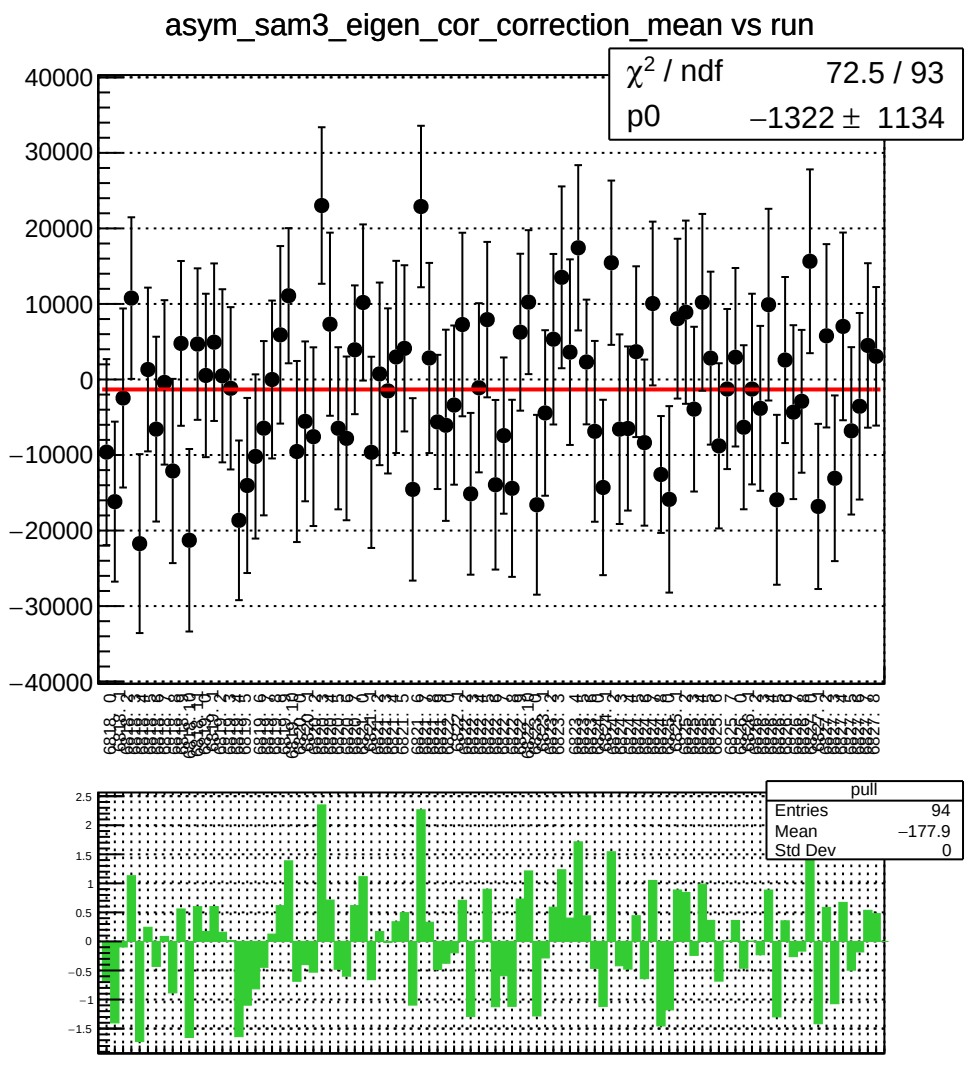

asym_sam3_cor_correction_mean vs run
χ² / ndf 72.5 / 93
p0 −1322 ± 1134
pull
Entries 94
Mean −177.9
Std Dev 0

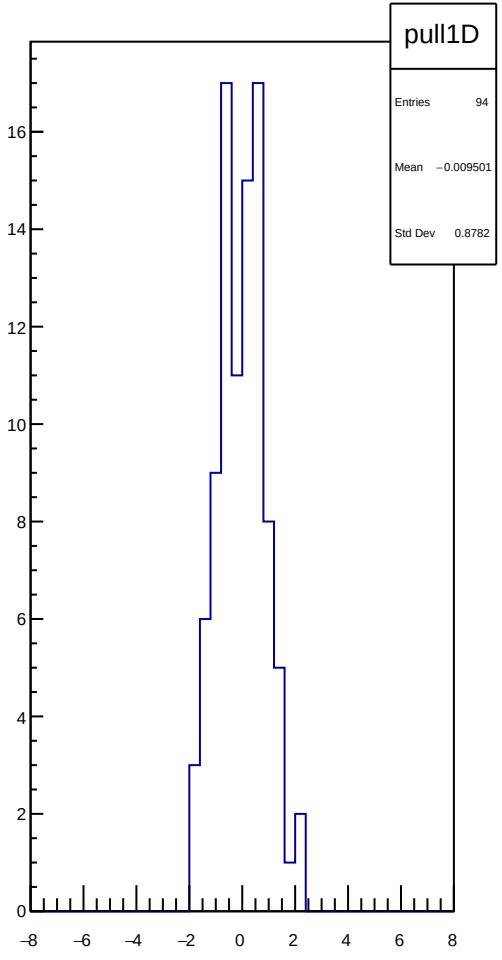

pull1D
Entries 94
Mean −0.009501
Std Dev 0.8782

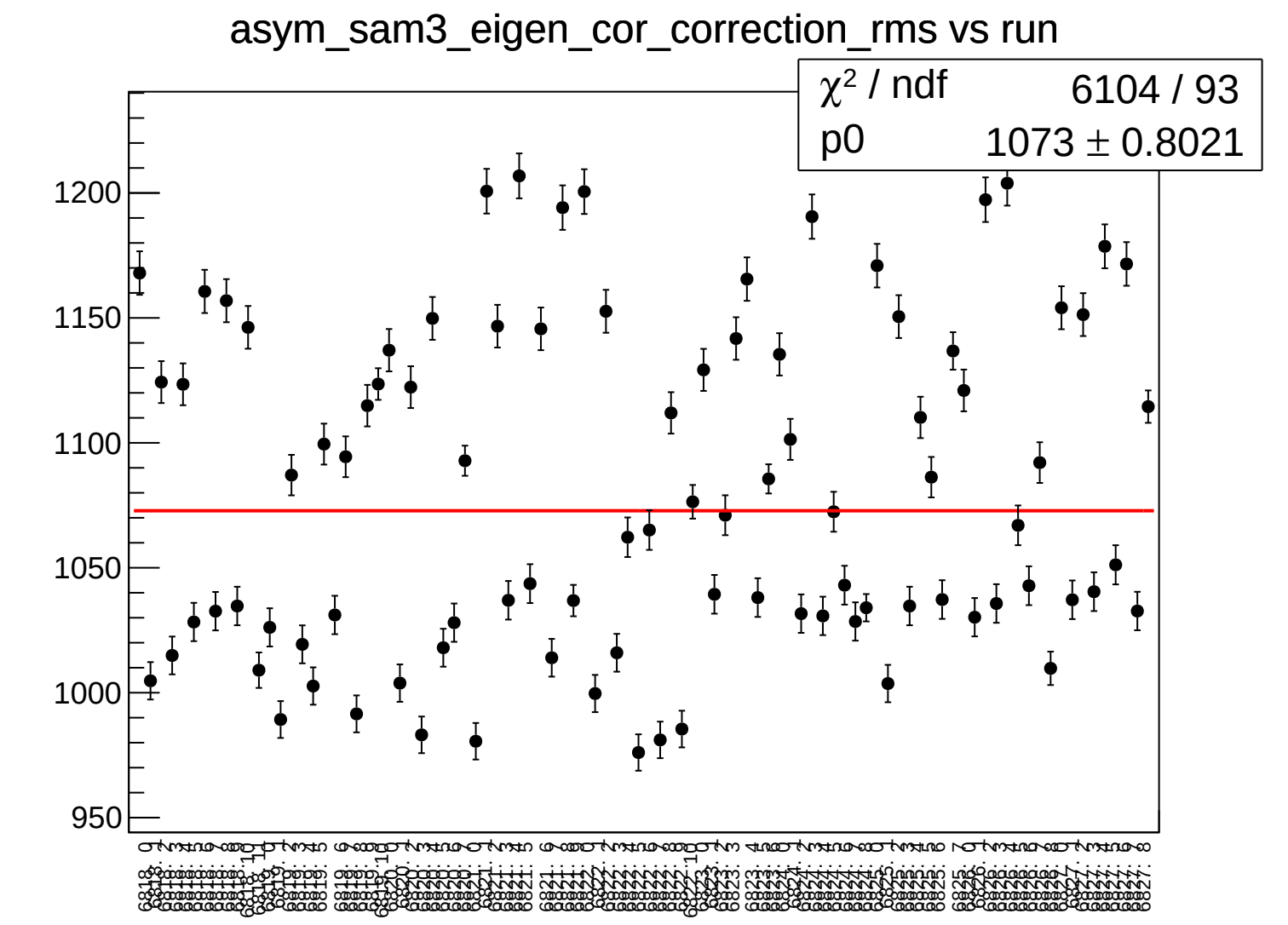

asym_sam3_cor_correction_rms vs run
χ² / ndf 6104 / 93
p0 1073 ± 0.8021
1200
1150
1100
1050
1000
950

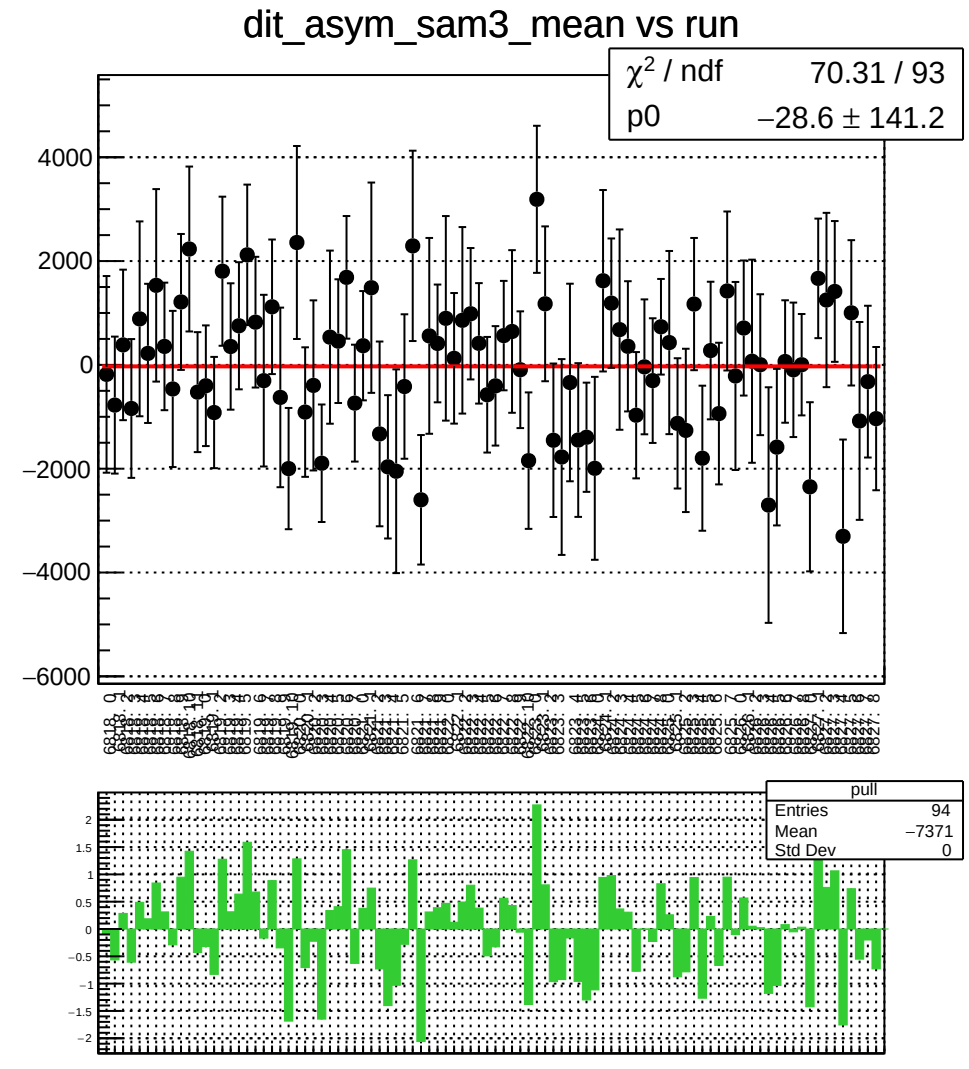

eigen_cor_asym_sam3_mean vs run
χ² / ndf 87.55 / 93
p0 −165.5 ± 102.4
pull
Entries 94
Mean 1674
Std Dev 0
pull1D
Entries 94
Mean −0.0007921
Std Dev 0.9651

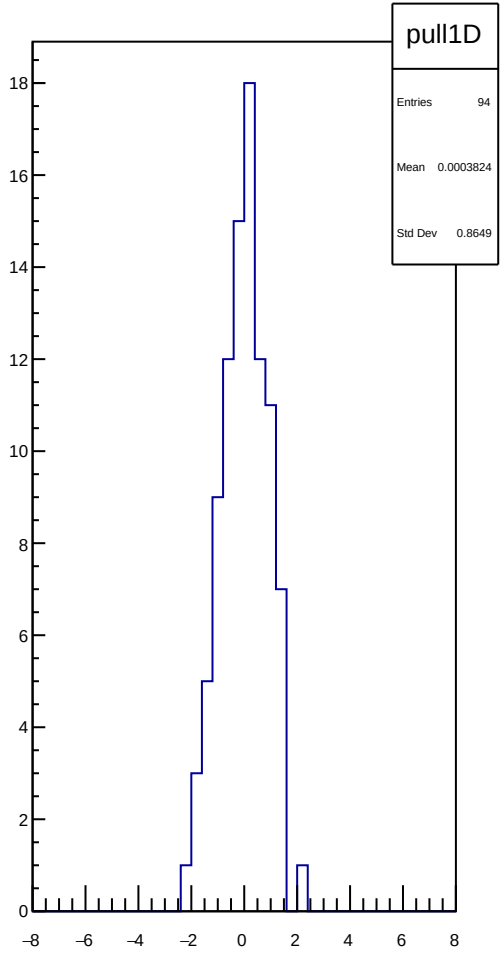

eigen_cor_asym_sam3_rms vs run
χ² / ndf 1.508e+04 / 93
p0 96.56 ± 0.07238
160
150
140
130
120
110
100
90
80

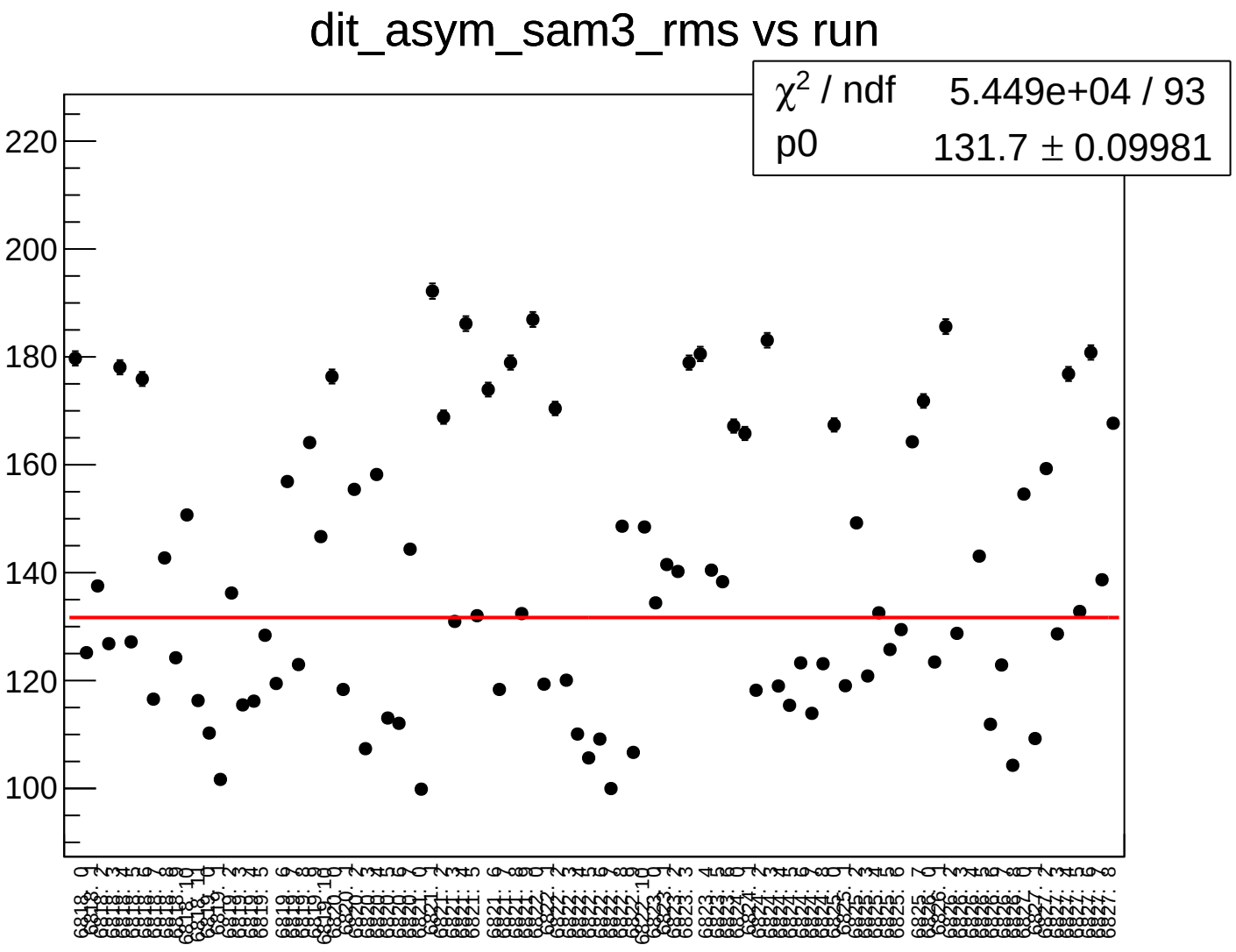

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 72.5 / 93
p0 −1322 ± 1134
pull
Entries 94
Mean −177.9
Std Dev 0

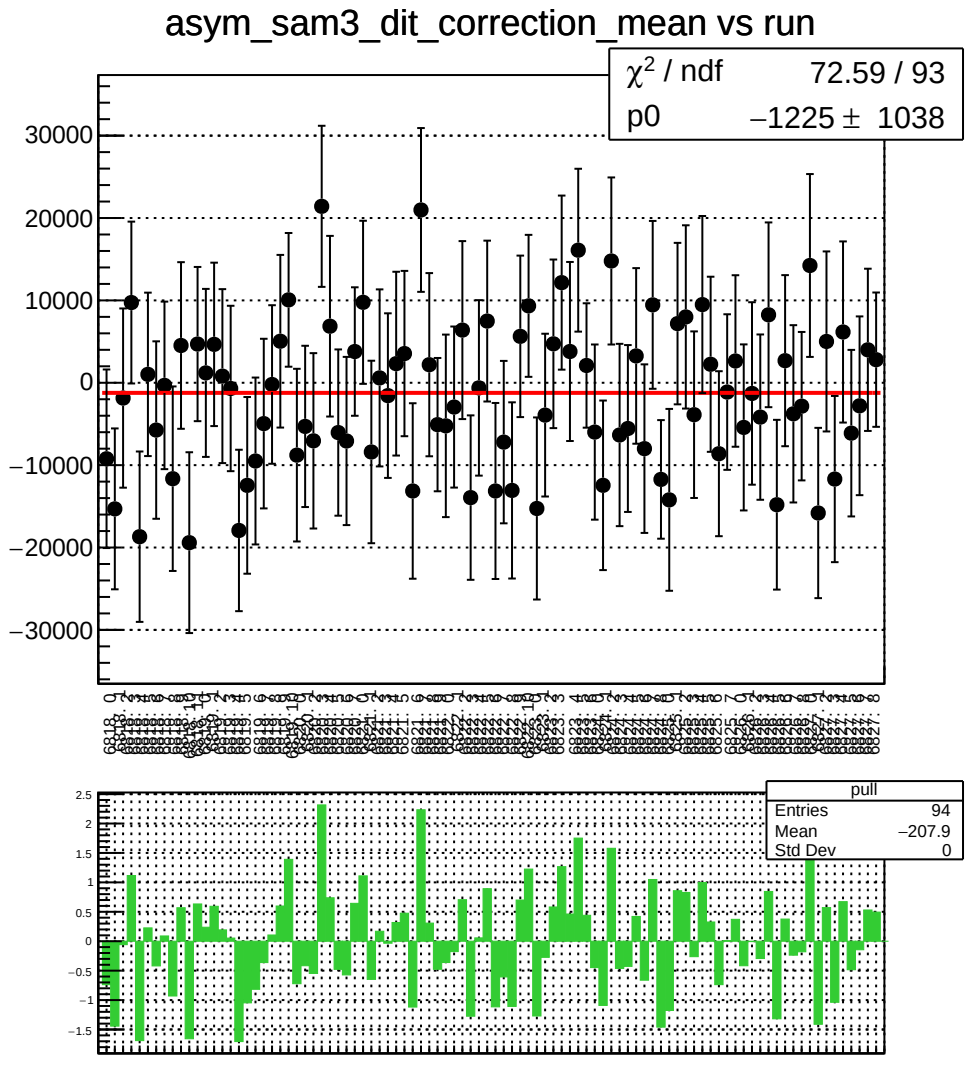

pull1D
Entries 94
Mean −0.009501
Std Dev 0.8782

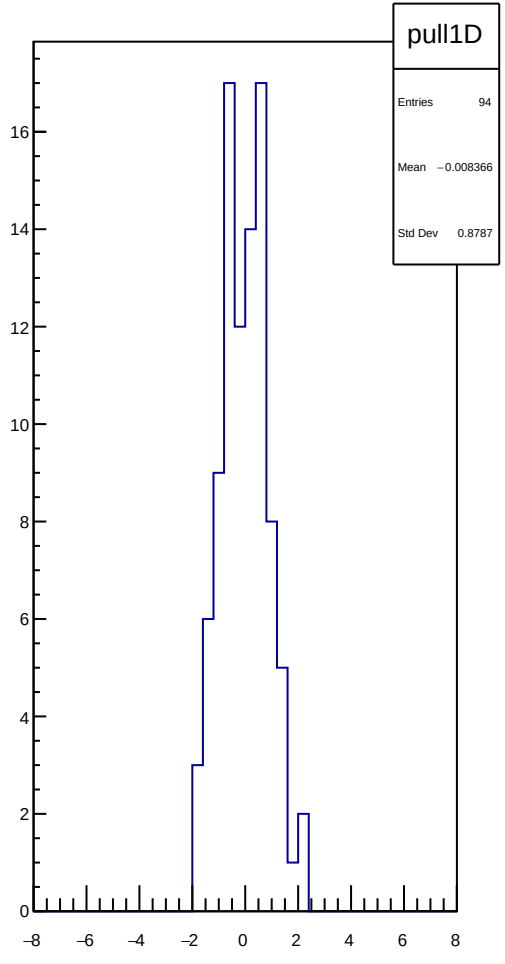

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 6104 / 93
p0 1073 ± 0.8021
1200
1150
1100
1050
1000
950

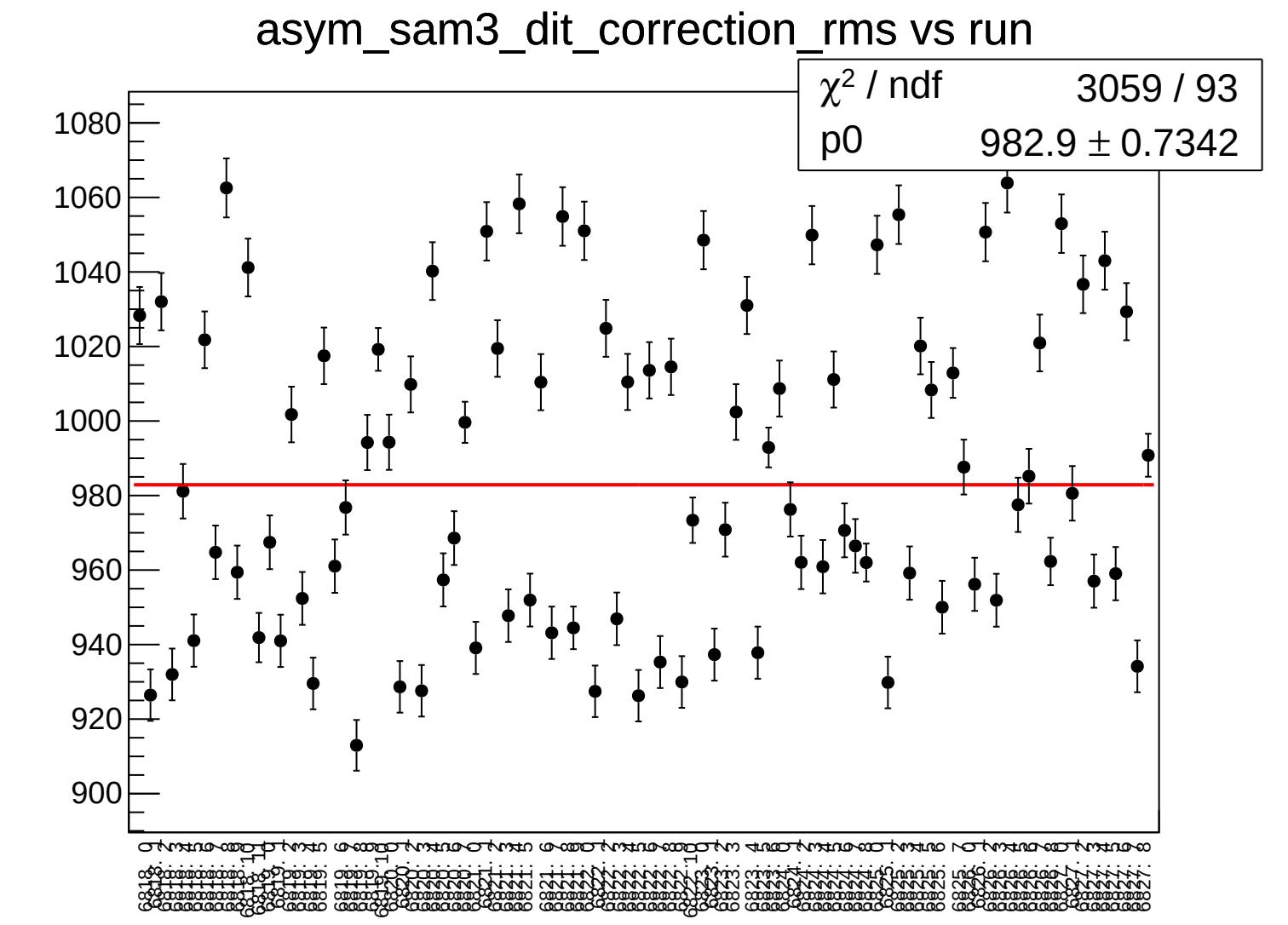

dit_asym_sam3_mean vs run
χ² / ndf 70.31 / 93
p0 −28.6 ± 141.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −7371
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

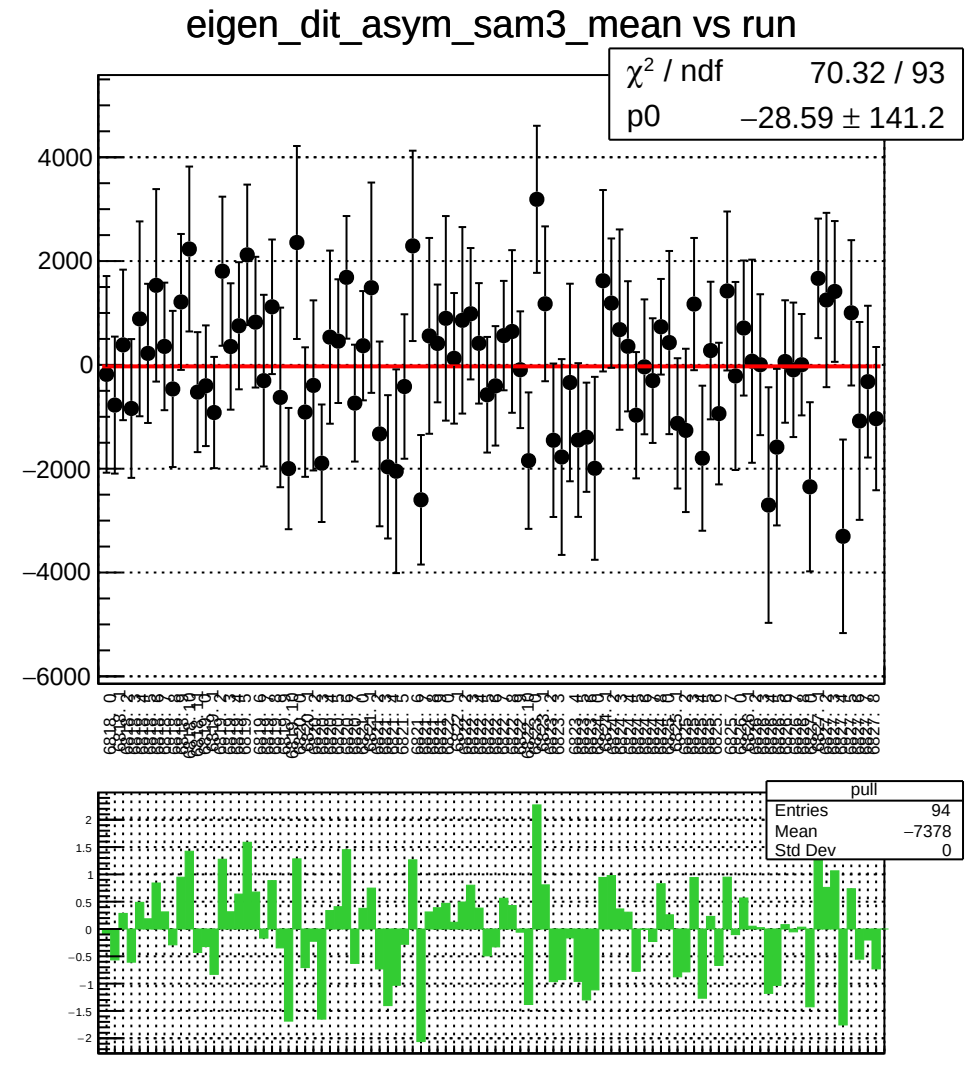

pull1D
Entries 94
Mean 0.0003824
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

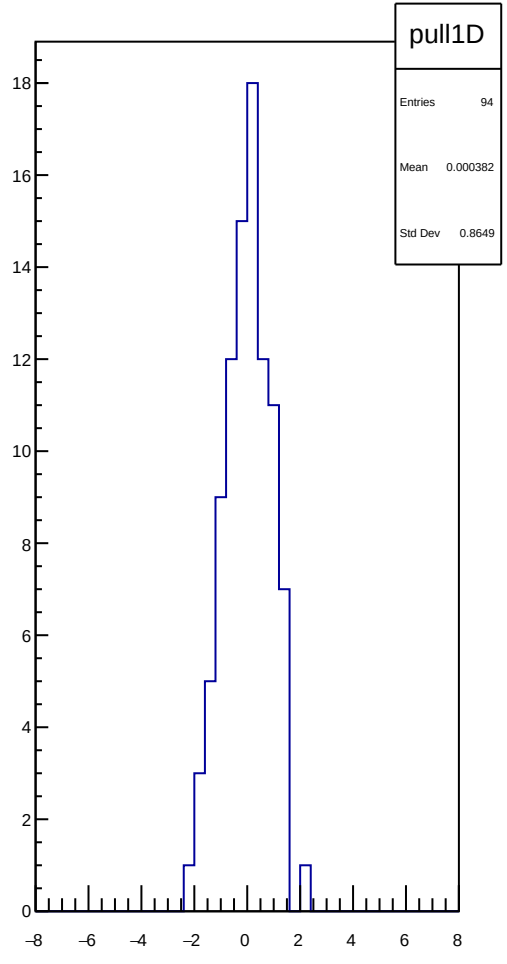

dit_asym_sam3_rms vs run
χ^2 / ndf 5.449e+04 / 93
p0 131.7 ± 0.09981
220
200
180
160
140
120
100

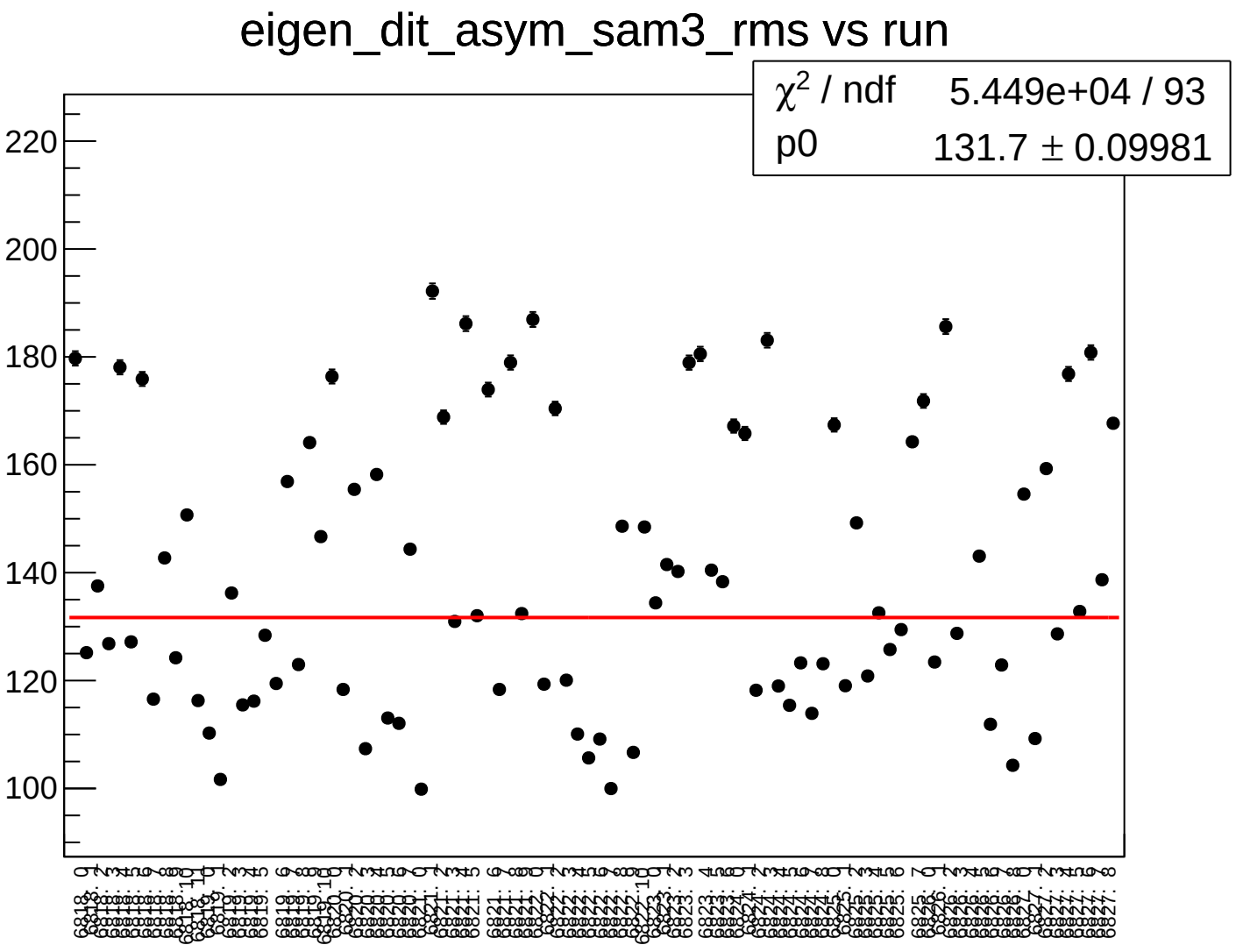

asym_sam3_dit_correction_mean vs run
χ² / ndf 72.59 / 93
p0 −1225 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −207.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

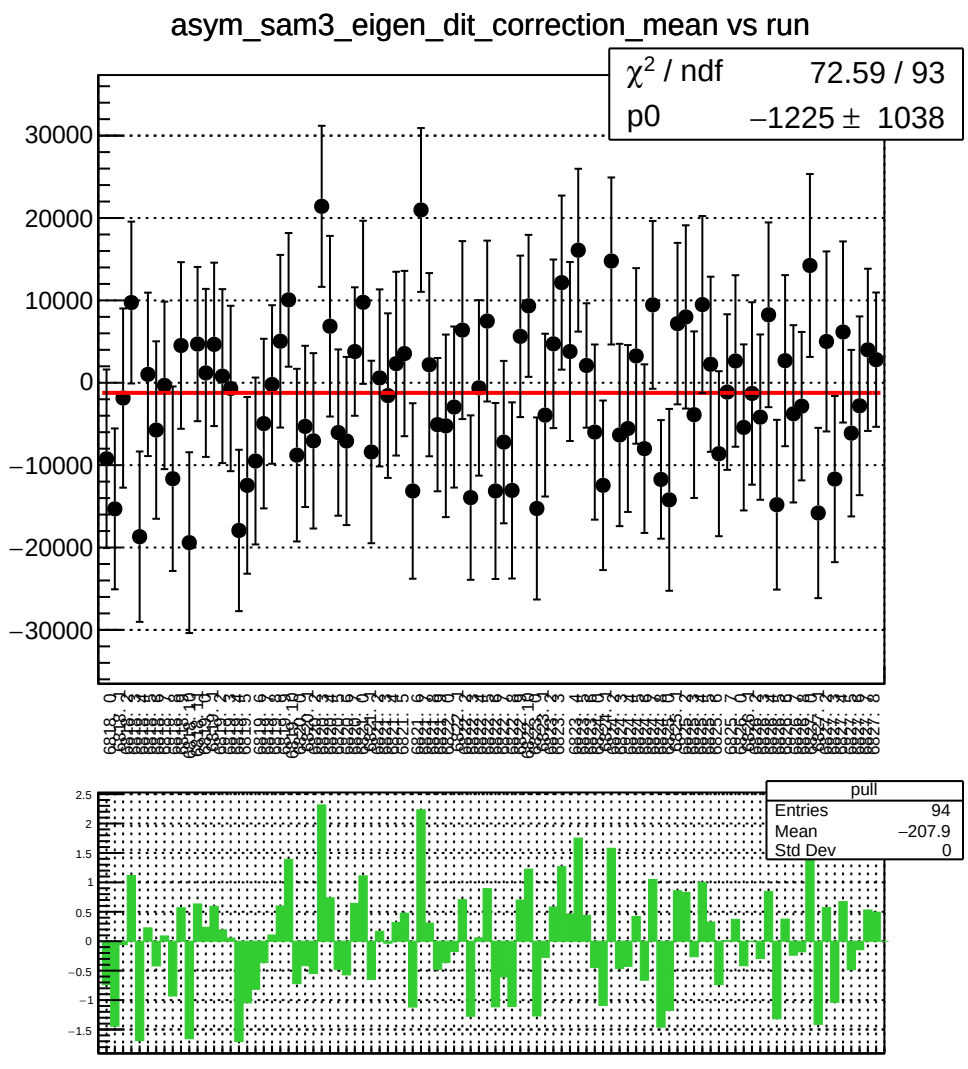

pull1D
Entries 94
Mean −0.008366
Std Dev 0.8787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

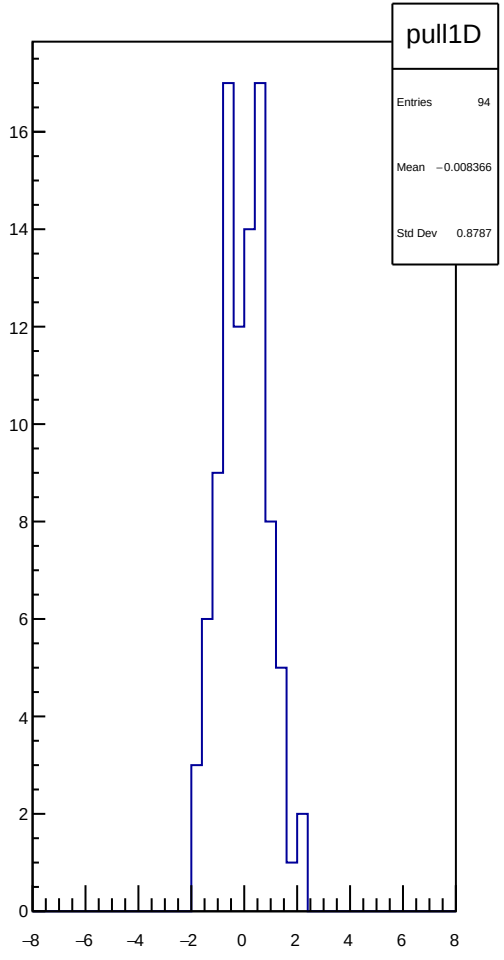

asym_sam3_dit_correction_rms vs run
χ² / ndf 3059 / 93
p0 982.9 ± 0.7342
1080
1060
1040
1020
1000
980
960
940
920
900

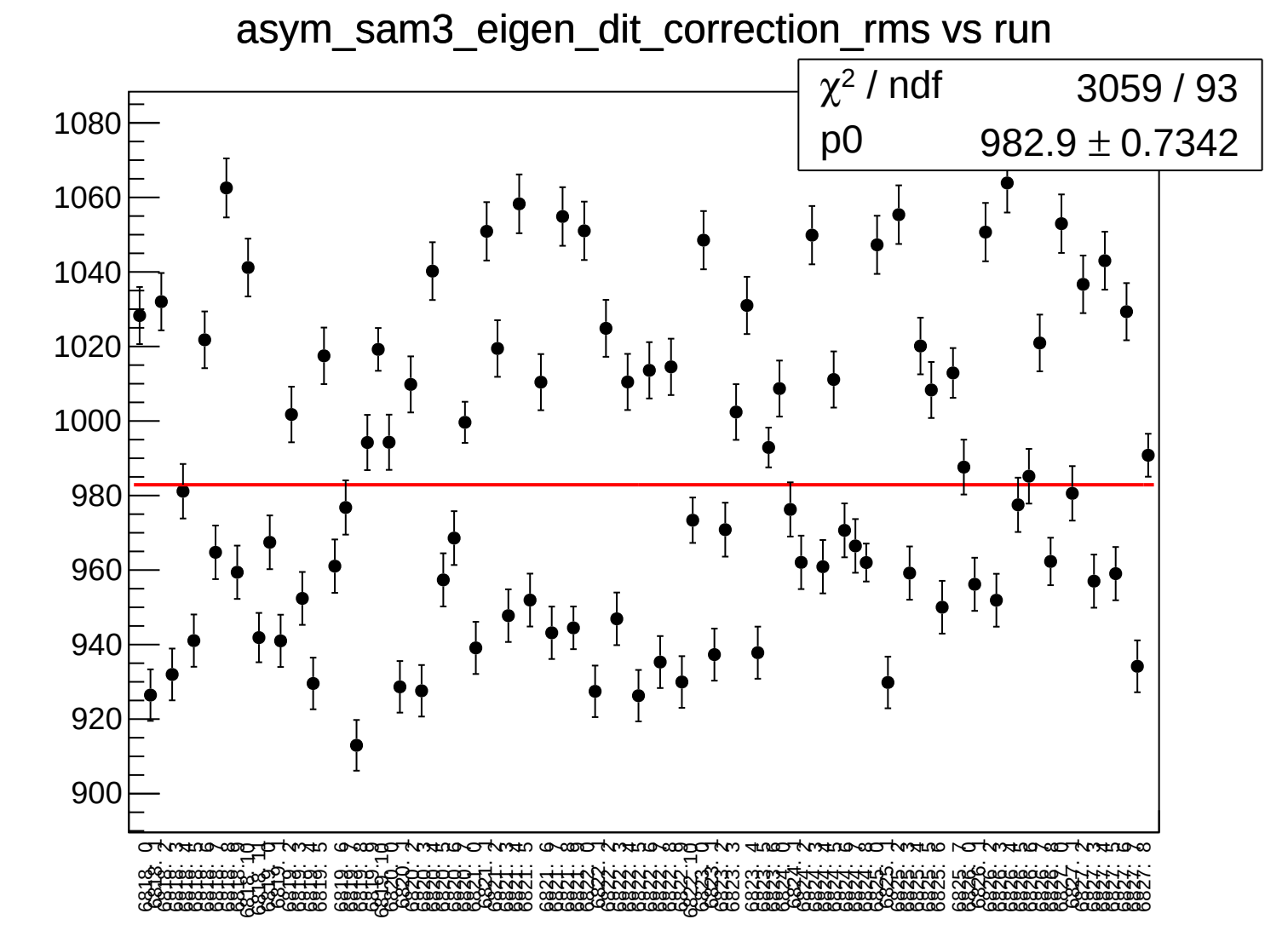

eigen_dit_asym_sam3_mean vs run
χ² / ndf 70.32 / 93
p0 −28.59 ± 141.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −7378
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

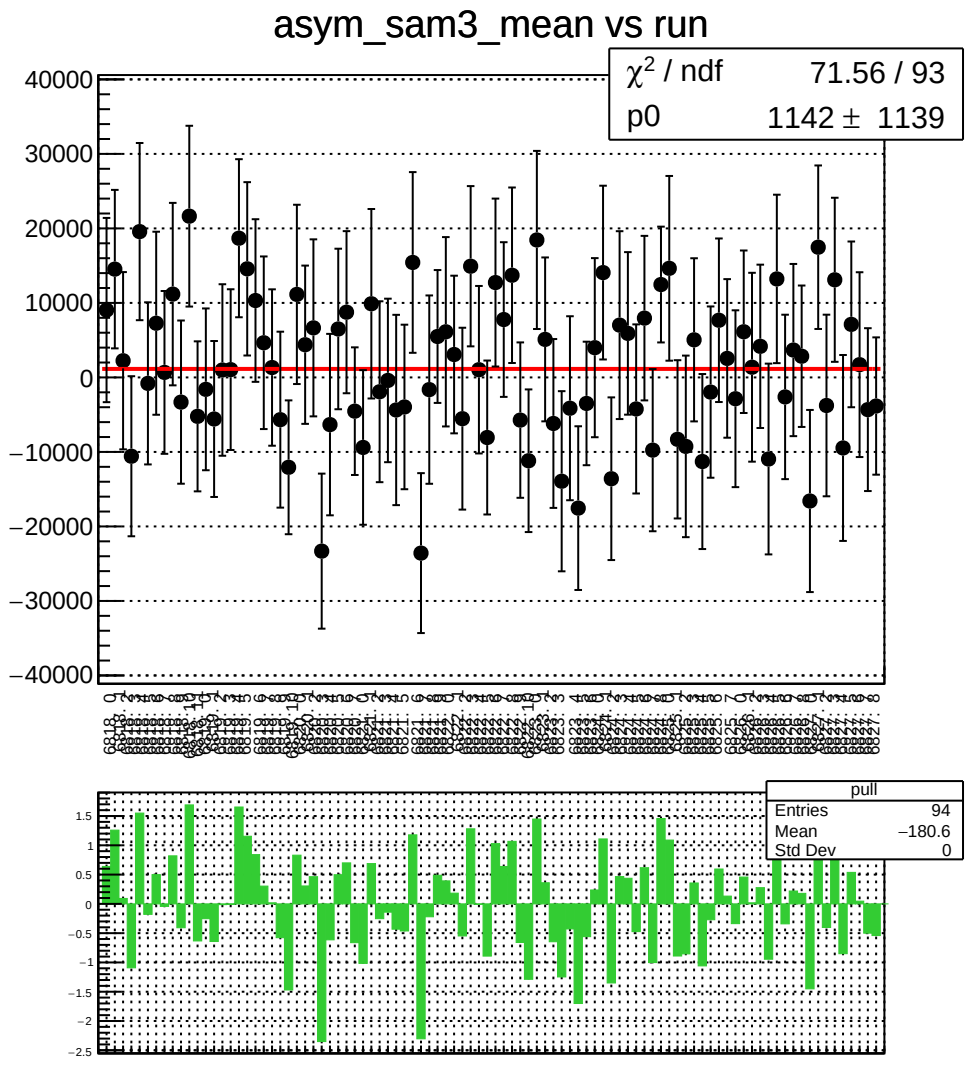

pull1D
Entries 94
Mean 0.000382
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

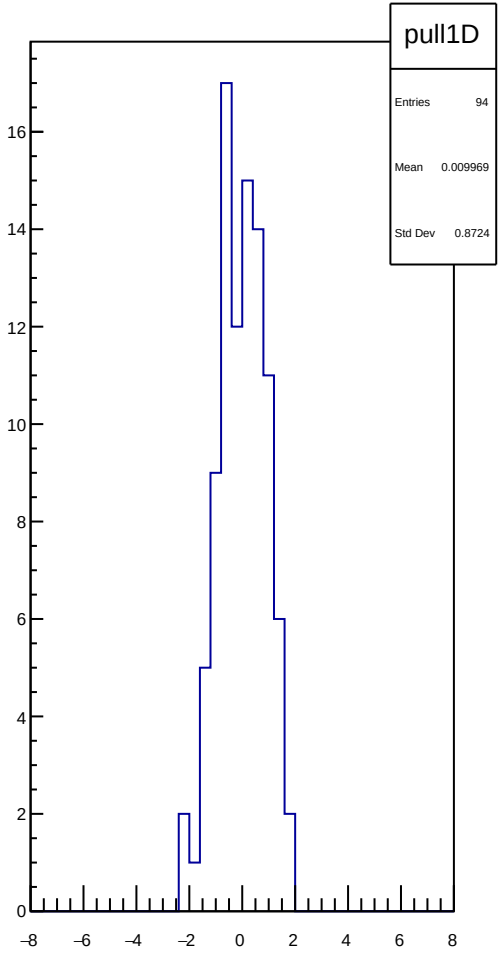

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 5.449e+04 / 93
p0 131.7 ± 0.09981
220
200
180
160
140
120
100

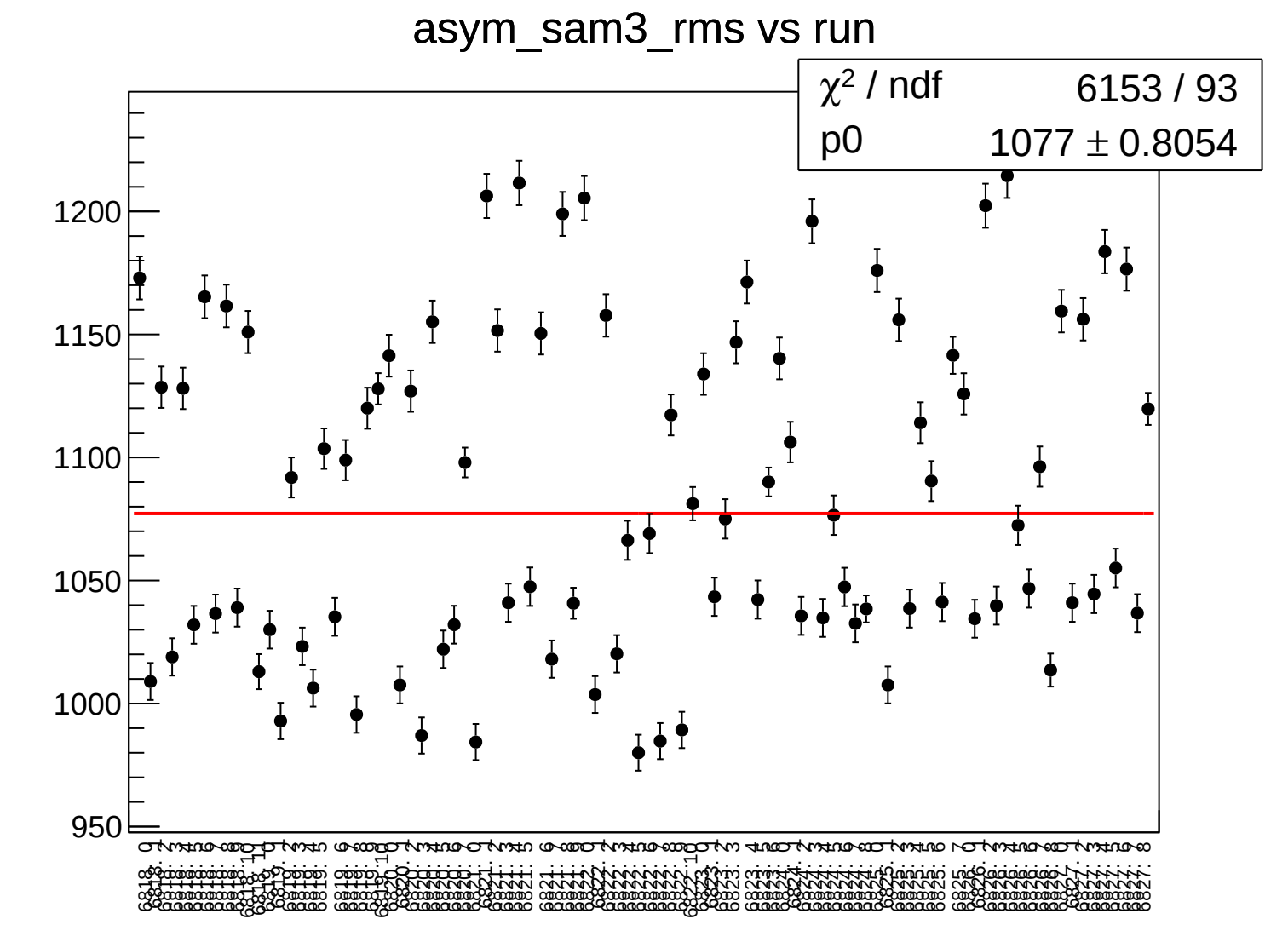

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 72.59 / 93
p0 −1225 ± 1038
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −207.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

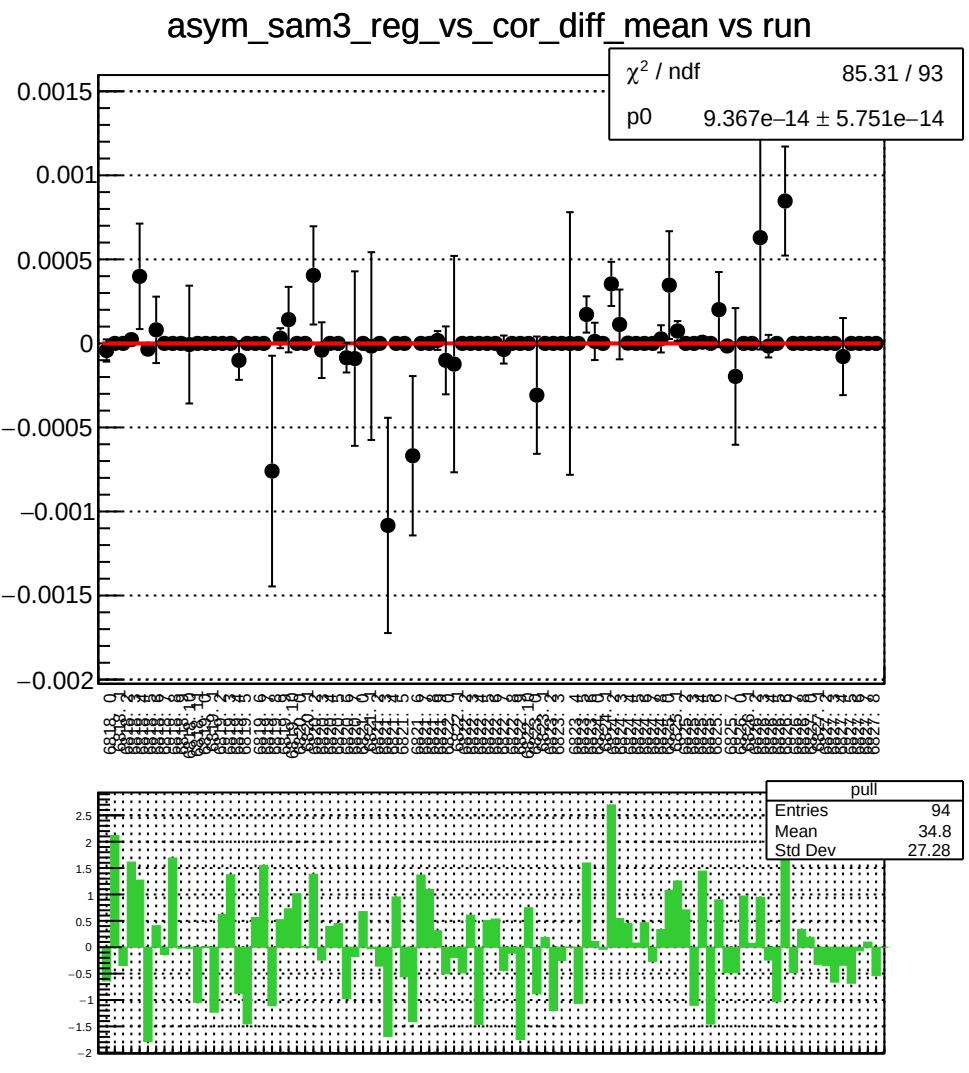

pull1D
Entries 94
Mean −0.008366
Std Dev 0.8787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

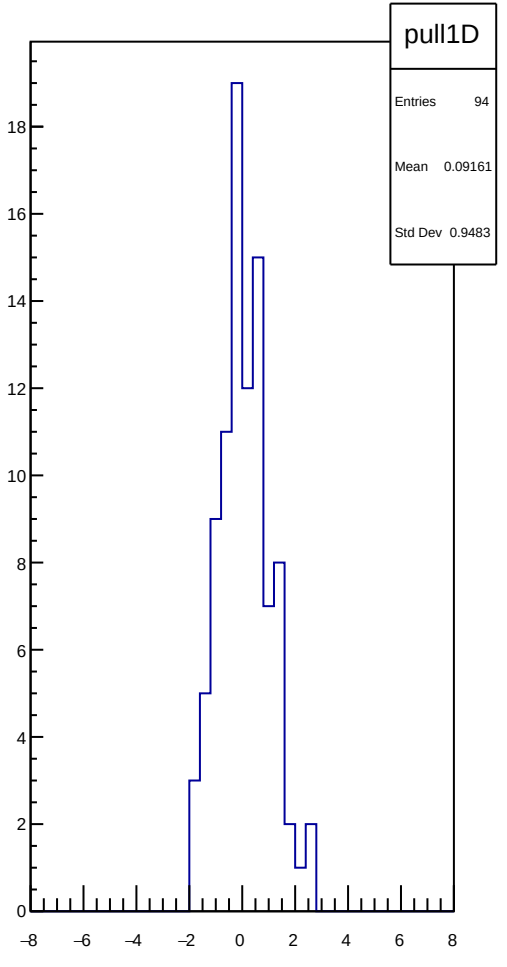

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3059 / 93
p0 982.9 ± 0.7342
1080
1060
1040
1020
1000
980
960
940
920
900

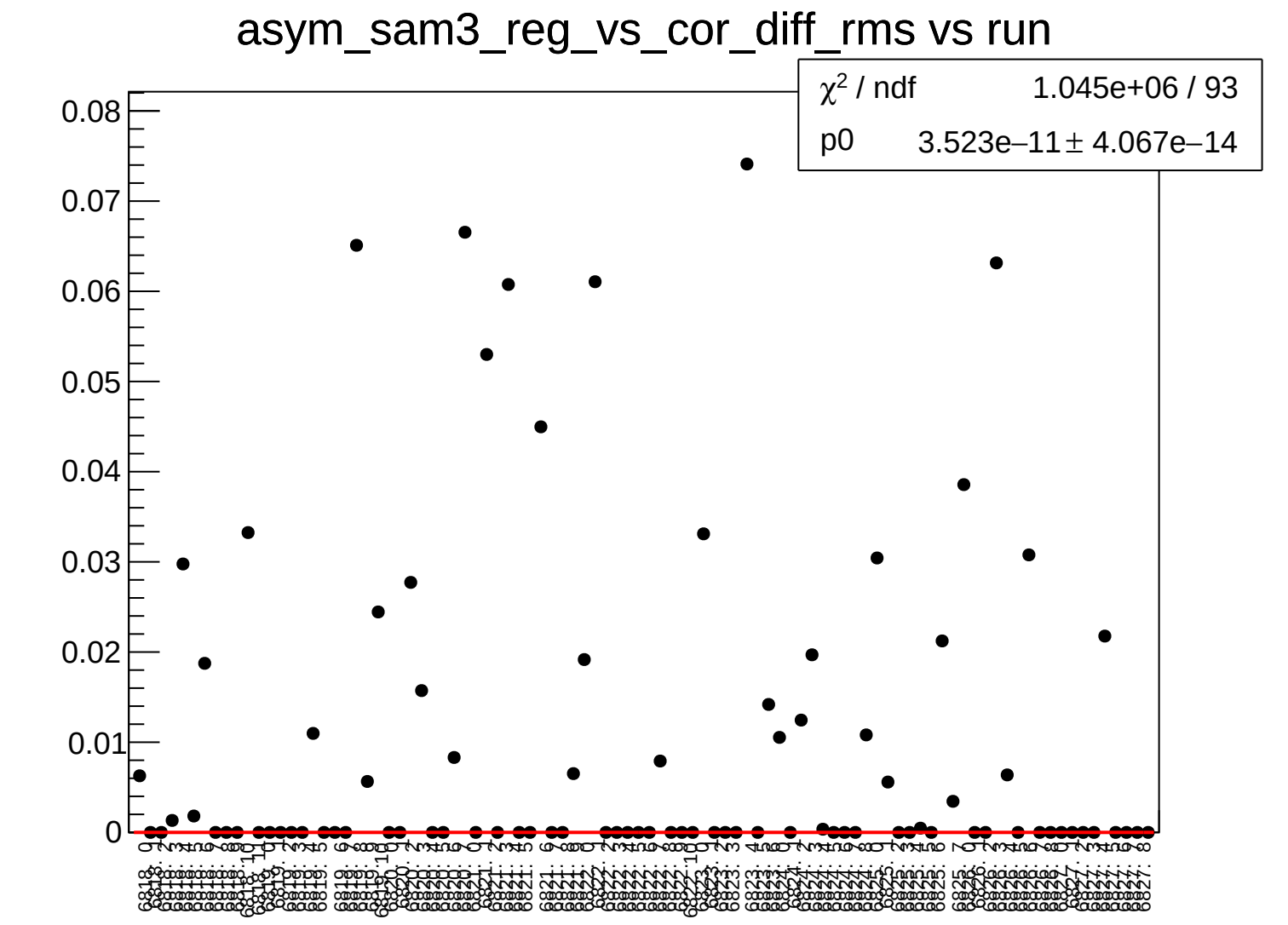

asym_sam3_mean vs run
χ² / ndf 71.56 / 93
p0 1142 ± 1139
pull
Entries 94
Mean −180.6
Std Dev 0

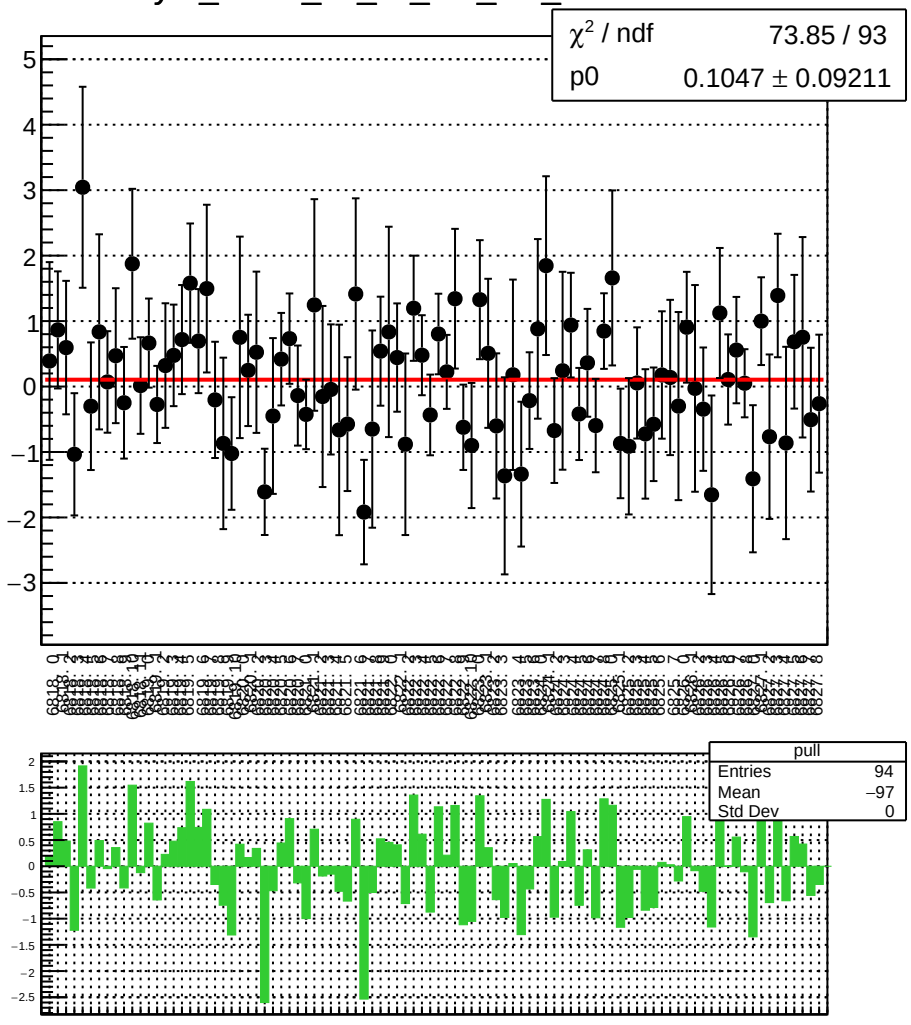

pull1D
Entries 94
Mean 0.009969
Std Dev 0.8724

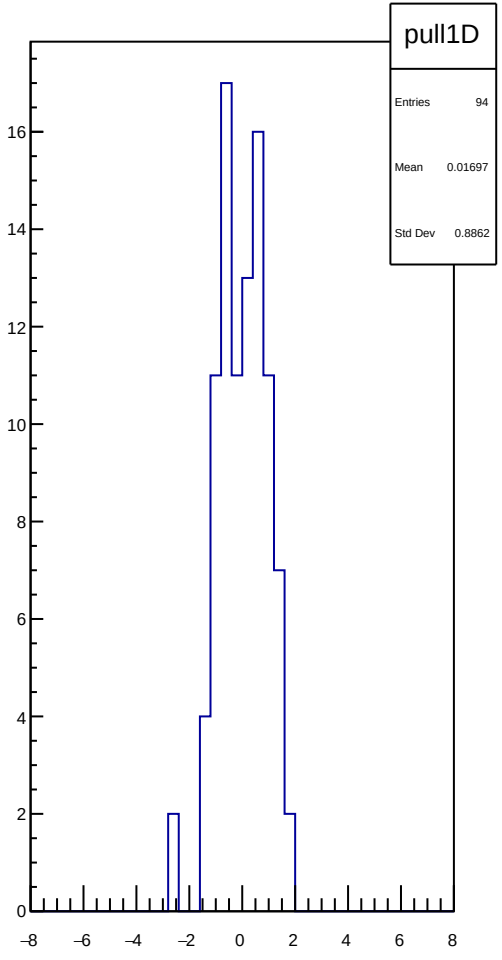

asym_sam3_rms vs run
χ² / ndf 6153 / 93
p0 1077 ± 0.8054
1200
1150
1100
1050
1000
950

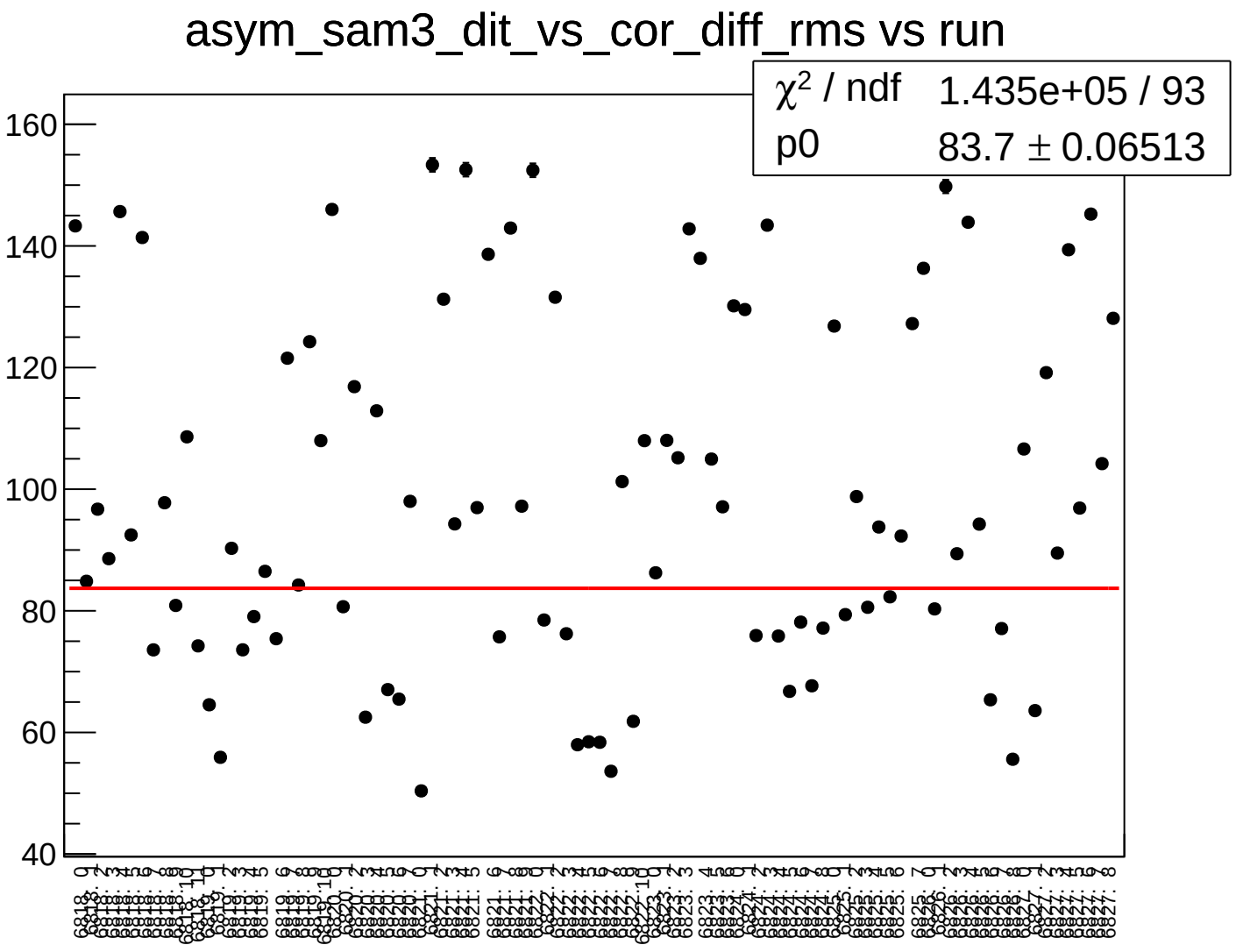

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 93
p0 9.367e−14 ± 5.751e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 34.8
Std Dev 27.28
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

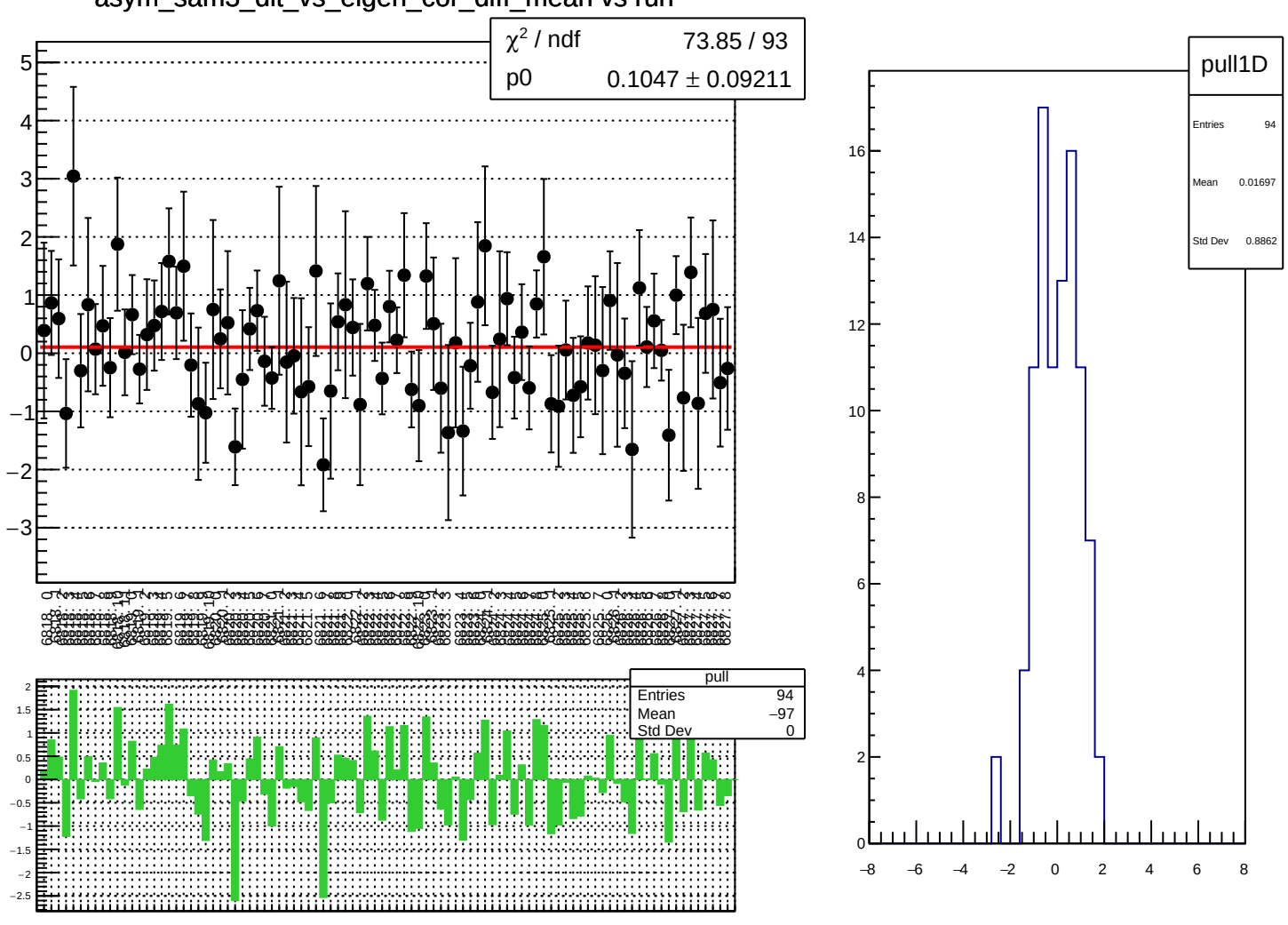

pull1D
Entries 94
Mean 0.09161
Std Dev 0.9483
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

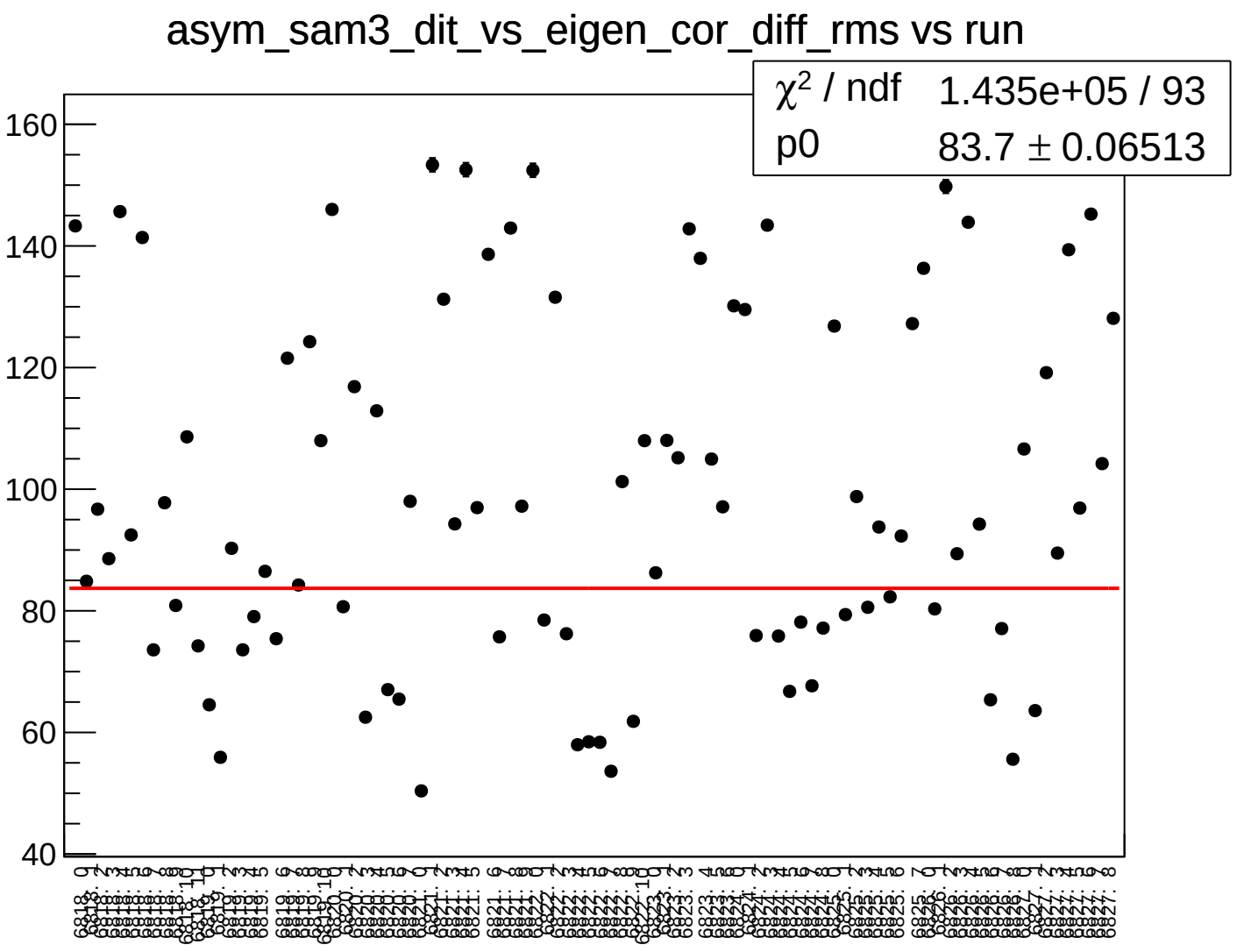

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.045e+06 / 93
p0 3.523e−11 ± 4.067e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

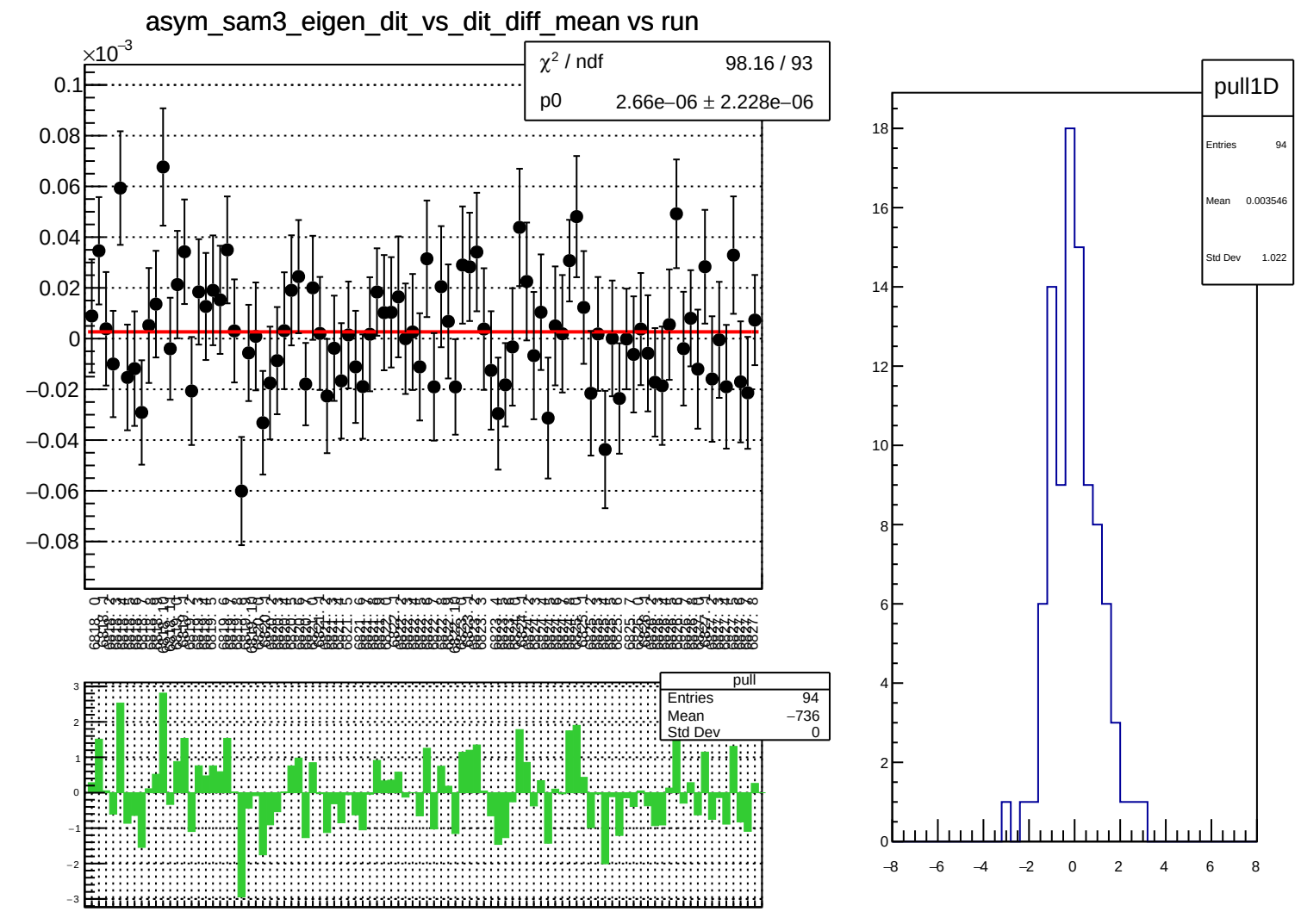

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 73.85 / 93
p0 0.1047 ± 0.09211
pull
Entries 94
Mean −97
Std Dev 0

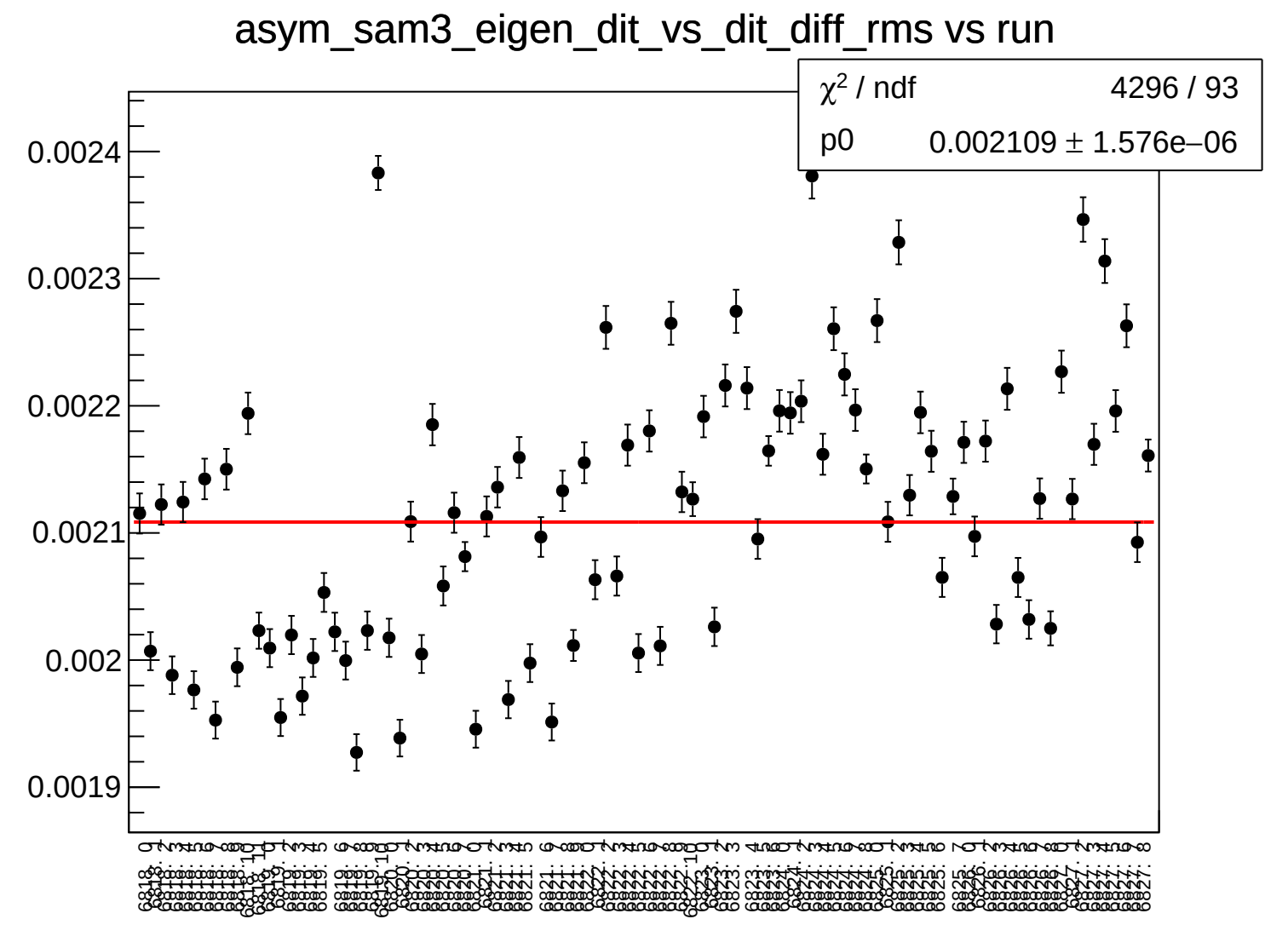

pull1D
Entries 94
Mean 0.01697
Std Dev 0.8862

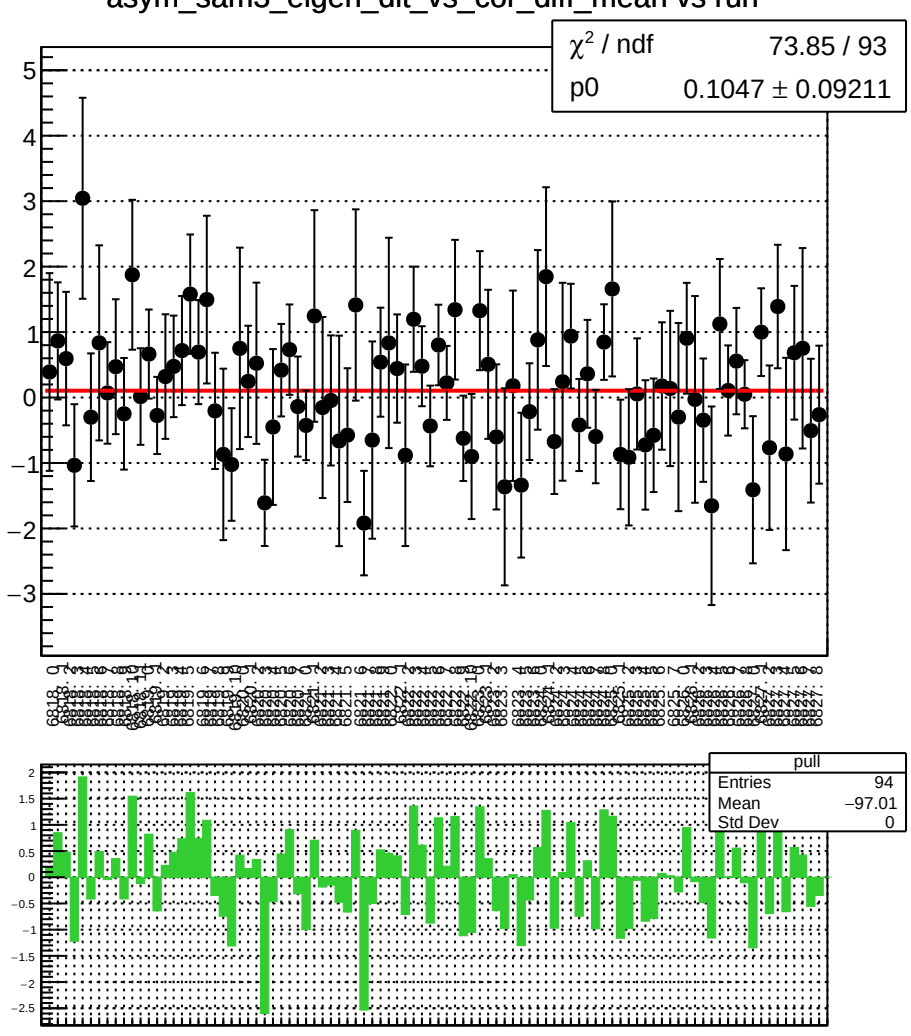

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+05 / 93
p0 83.7 ± 0.06513
160
140
120
100
80
60
40

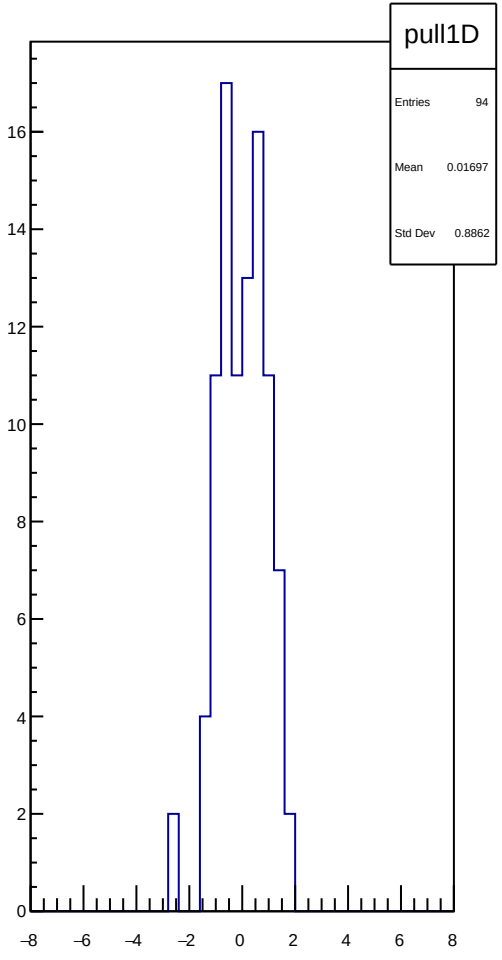

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.85 / 93
p0 0.1047 ± 0.09211
pull
Entries 94
Mean −97
Std Dev 0
pull1D
Entries 94
Mean 0.01697
Std Dev 0.8862

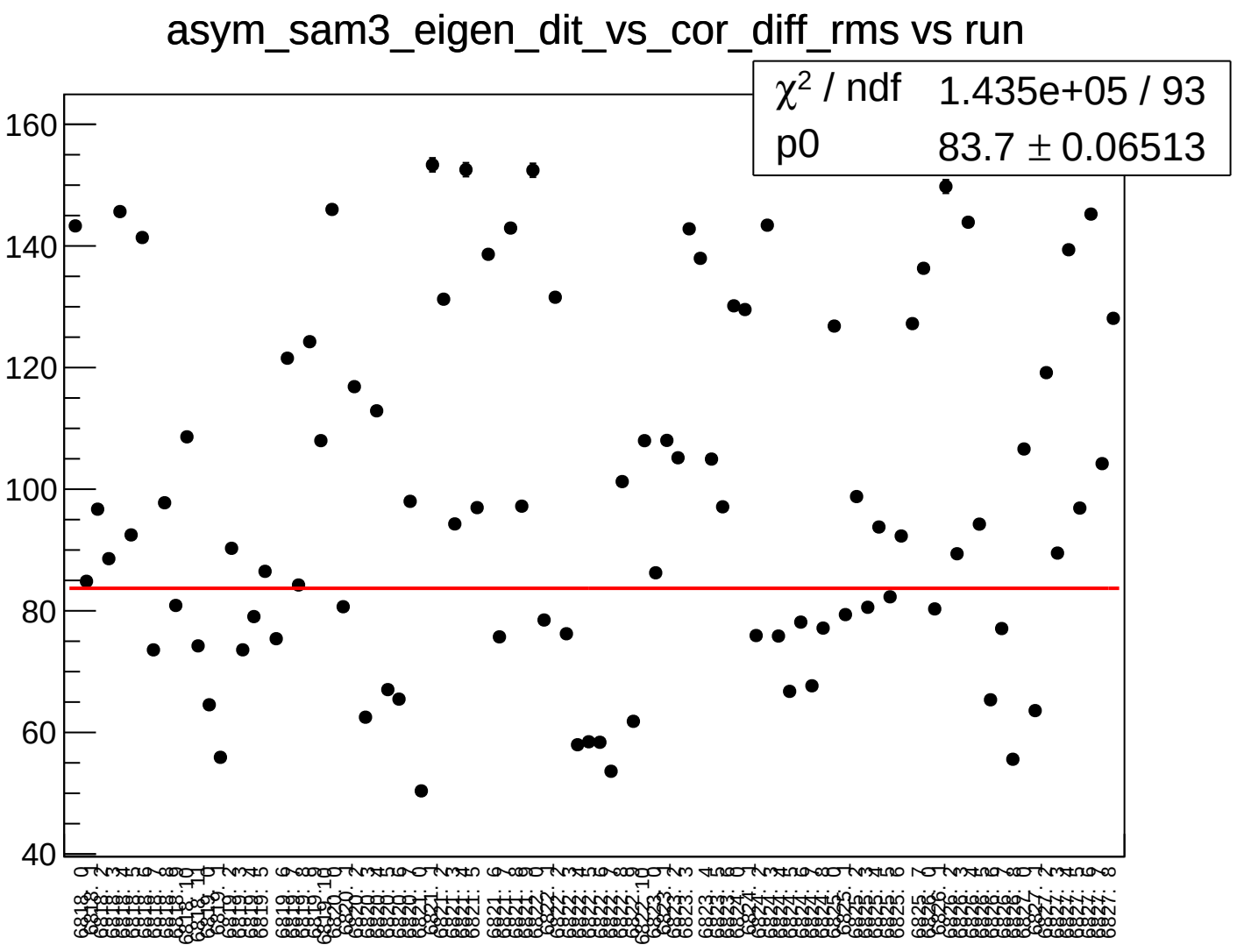

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+05 / 93
p0 83.7 ± 0.06513
160
140
120
100
80
60
40

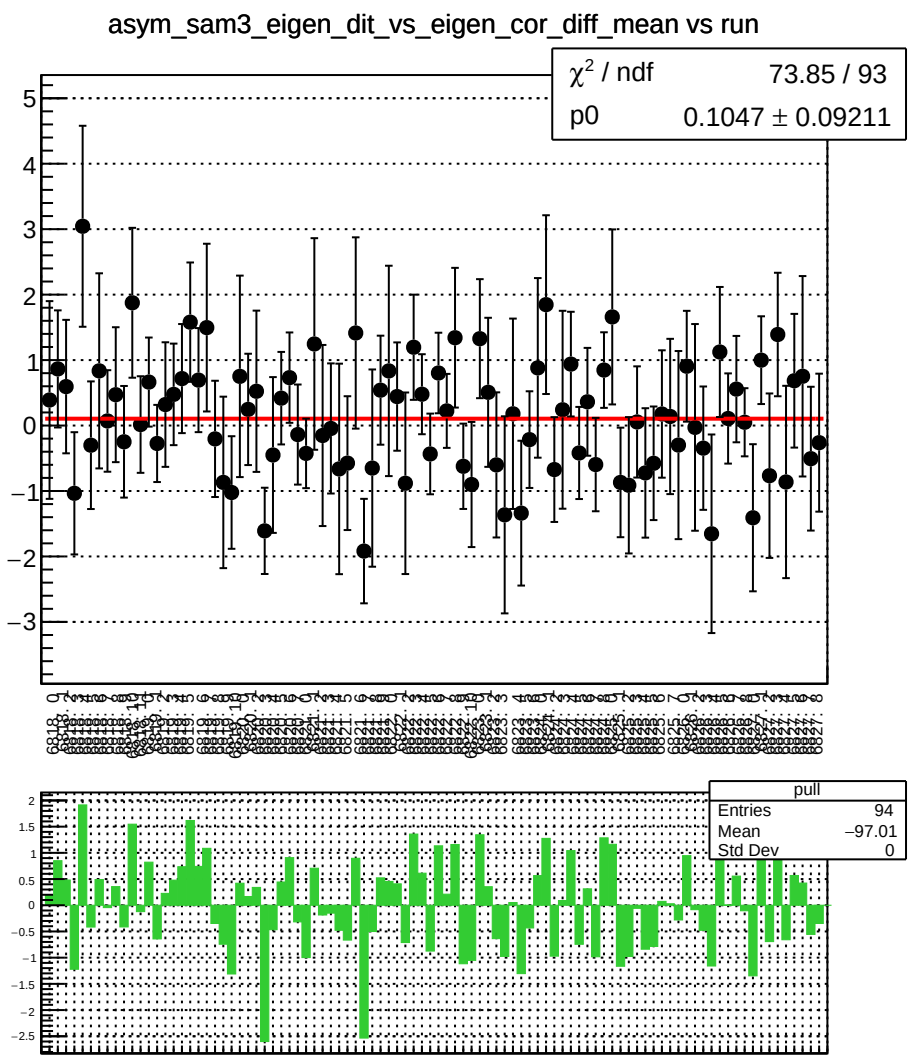

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 98.16 / 93
p0 2.66e−06 ± 2.228e−06
pull
Entries 94
Mean −736
Std Dev 0
pull1D
Entries 94
Mean 0.003546
Std Dev 1.022

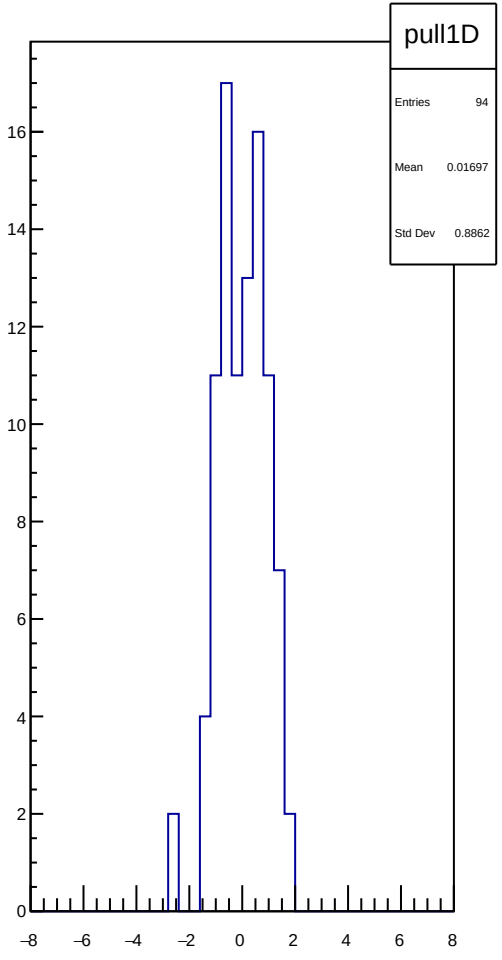

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4296 / 93
p0 0.002109 ± 1.576e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

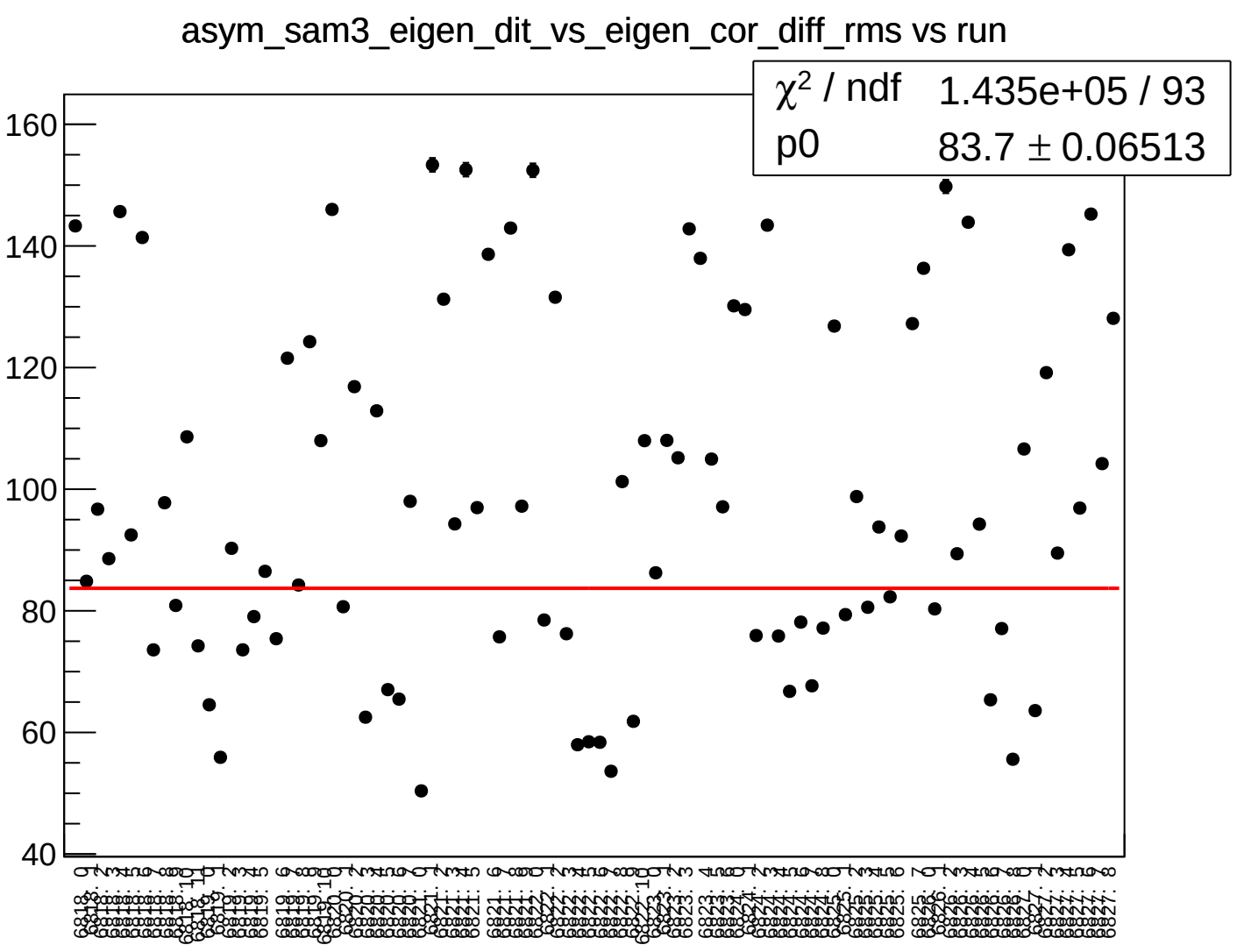

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.85 / 93
p0 0.1047 ± 0.09211
pull
Entries 94
Mean −97.01
Std Dev 0

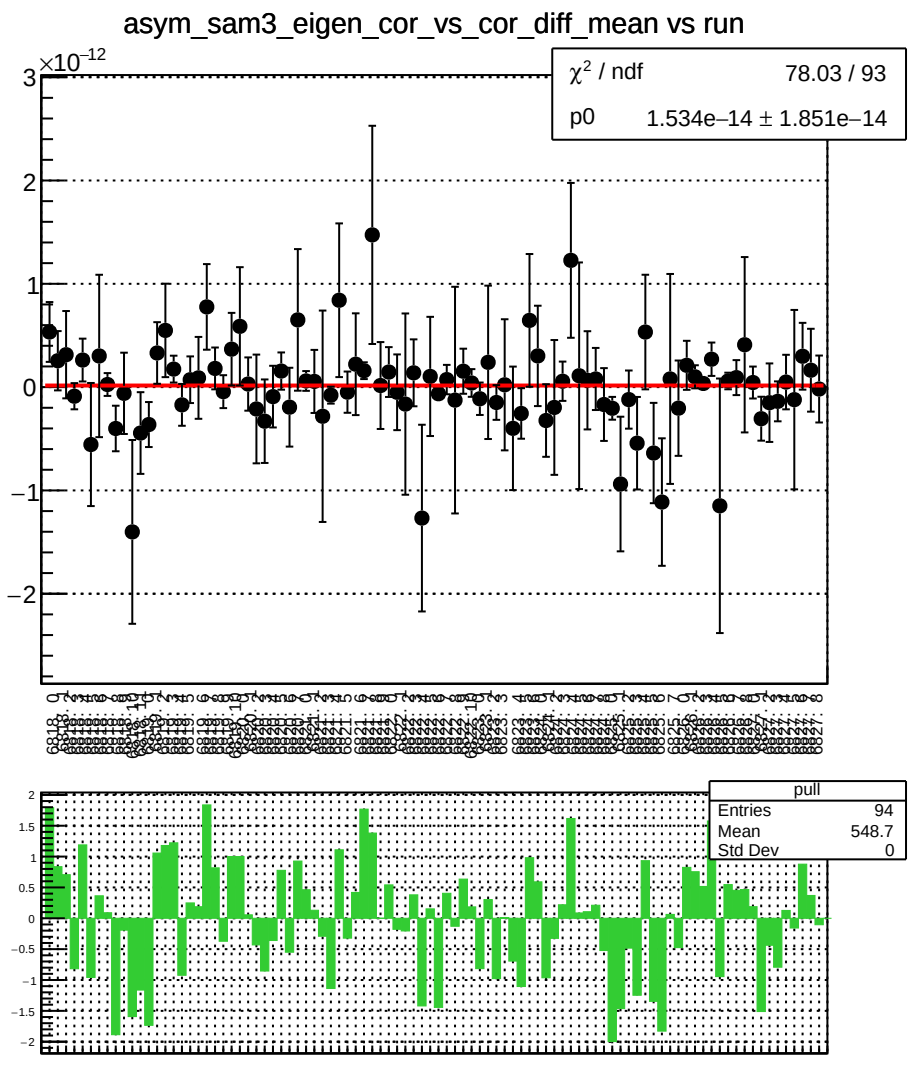

pull1D
Entries 94
Mean 0.01697
Std Dev 0.8862

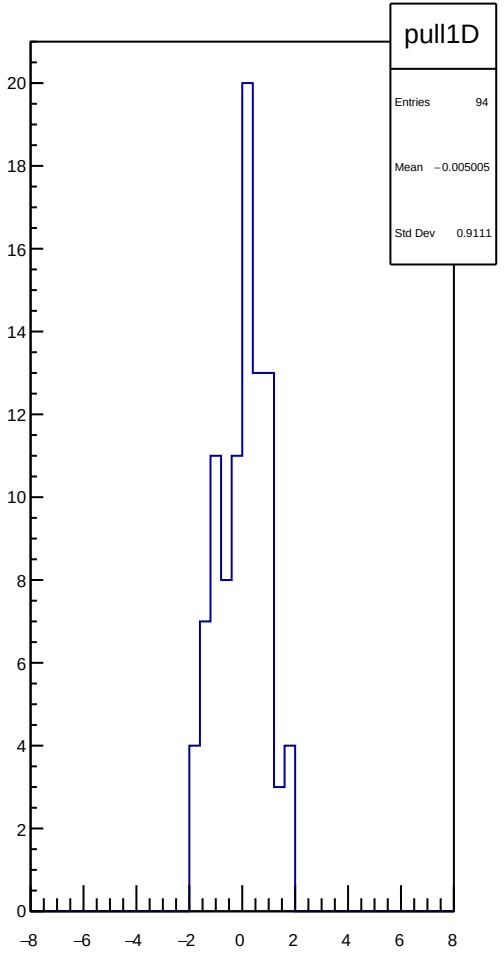

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.435e+05 / 93
p0 83.7 ± 0.06513
160
140
120
100
80
60
40

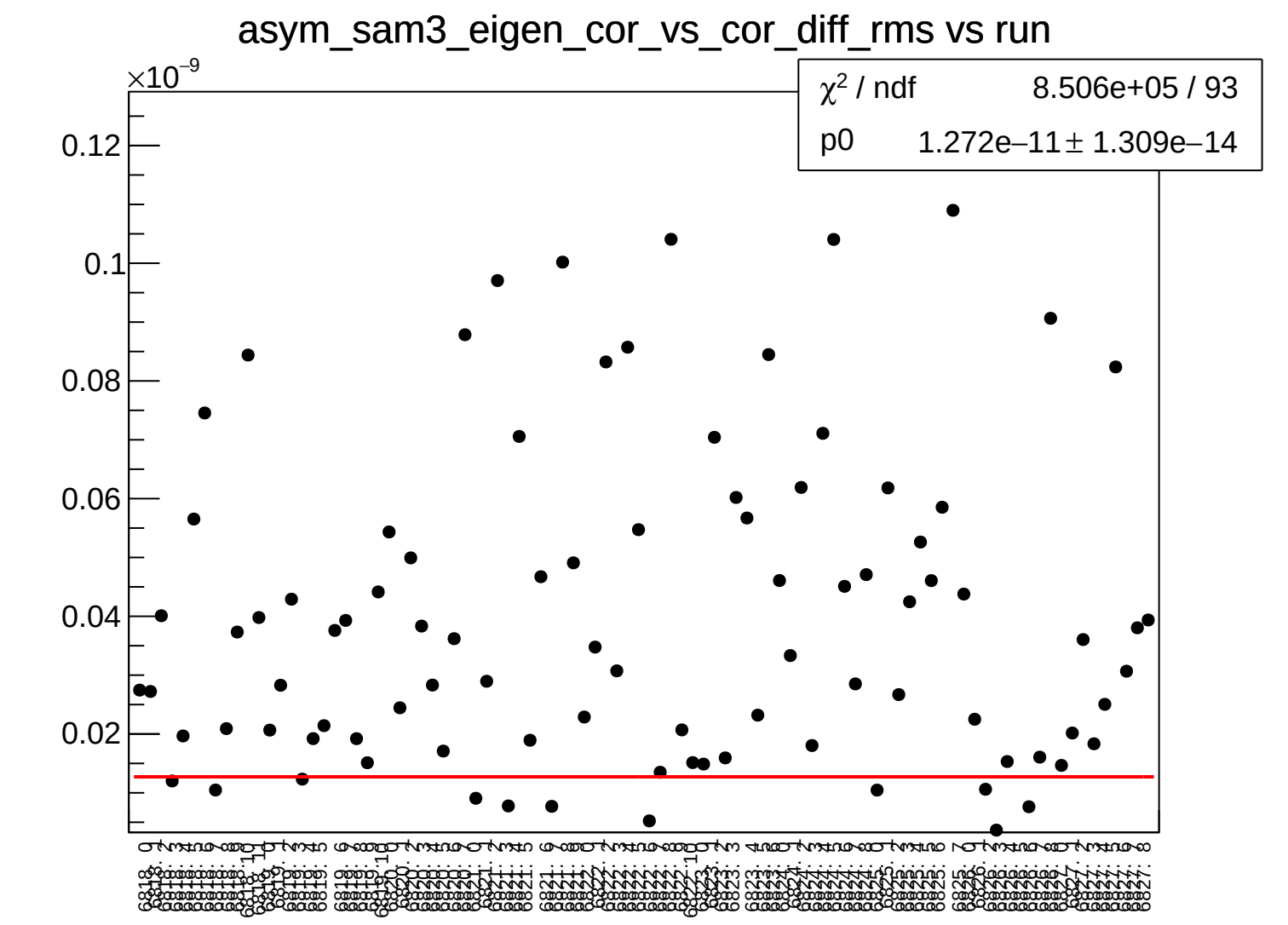

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.85 / 93
p0 0.1047 ± 0.09211
pull
Entries 94
Mean −97.01
Std Dev 0

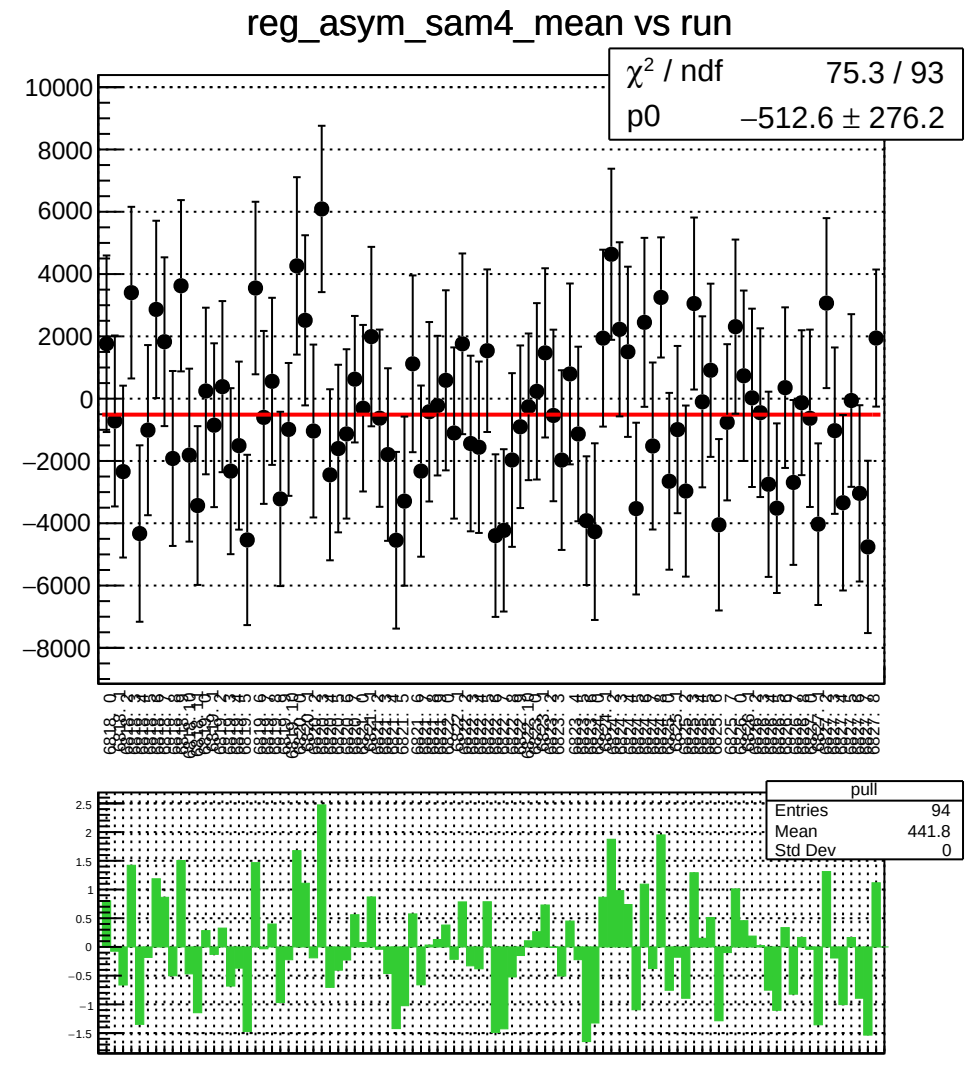

pull1D
Entries 94
Mean 0.01697
Std Dev 0.8862

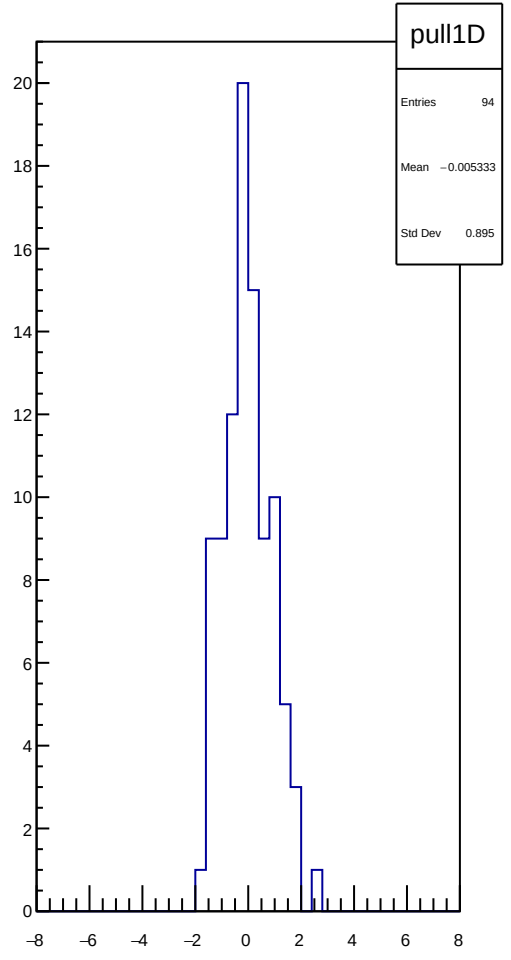

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.435e+05 / 93
p0 83.7 ± 0.06513
160
140
120
100
80
60
40

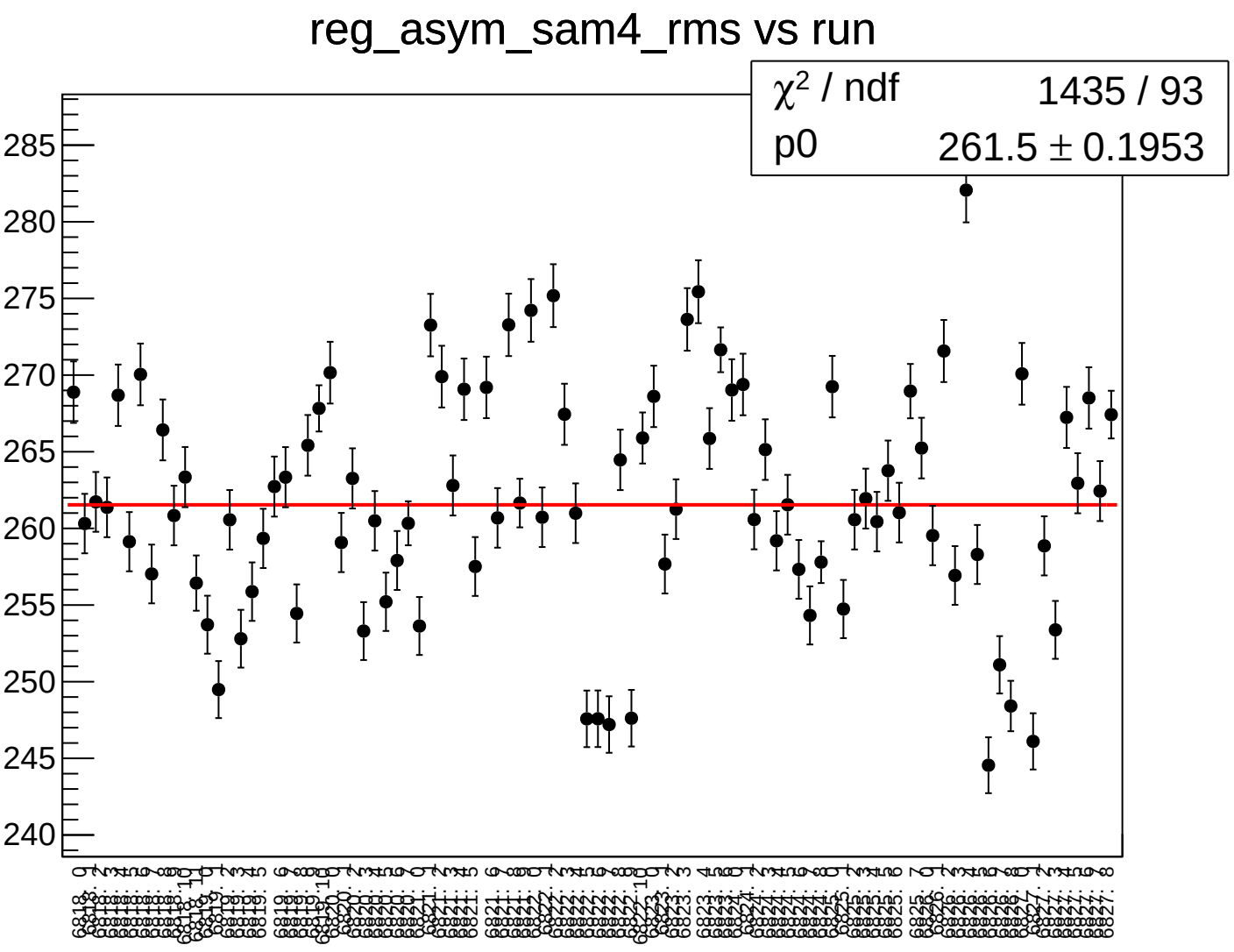

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.03 / 93
p0 1.534e−14 ± 1.851e−14
pull
Entries 94
Mean 548.7
Std Dev 0

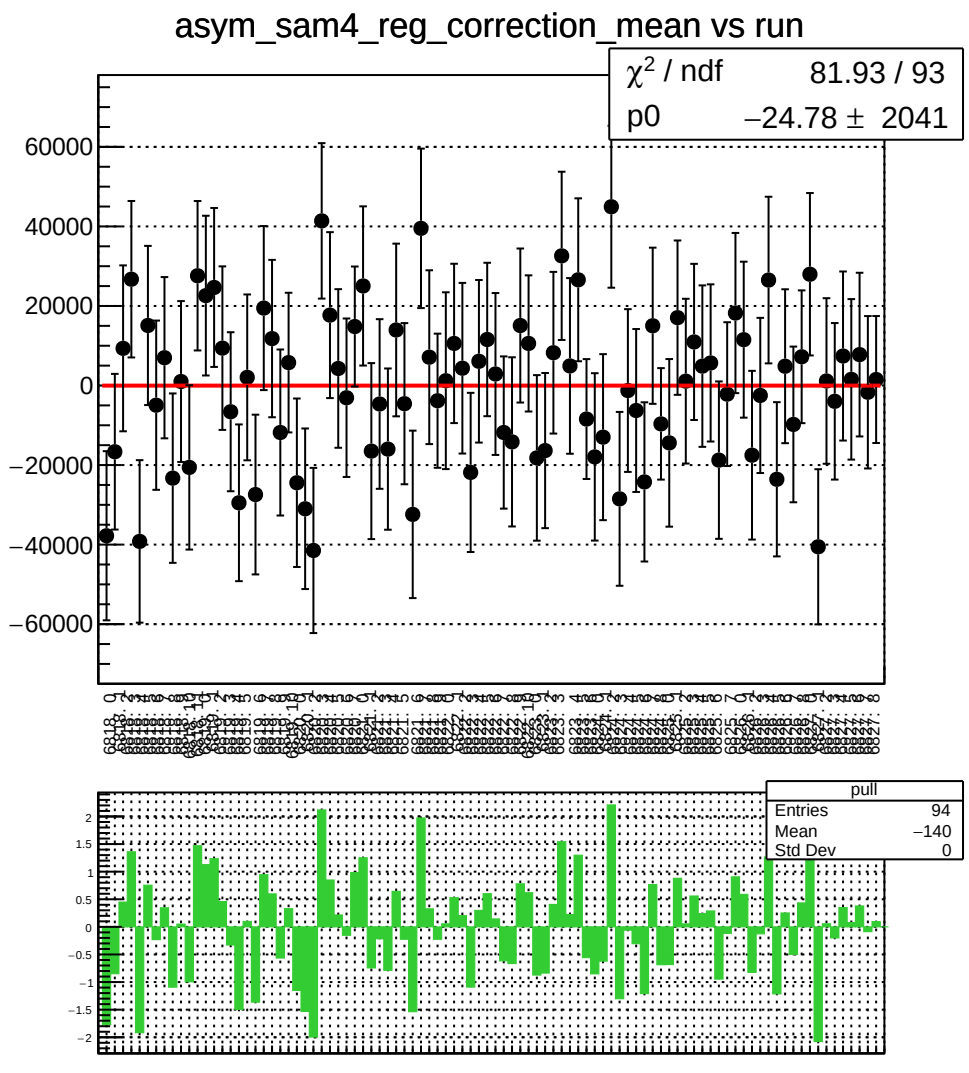

pull1D
Entries 94
Mean −0.005005
Std Dev 0.9111

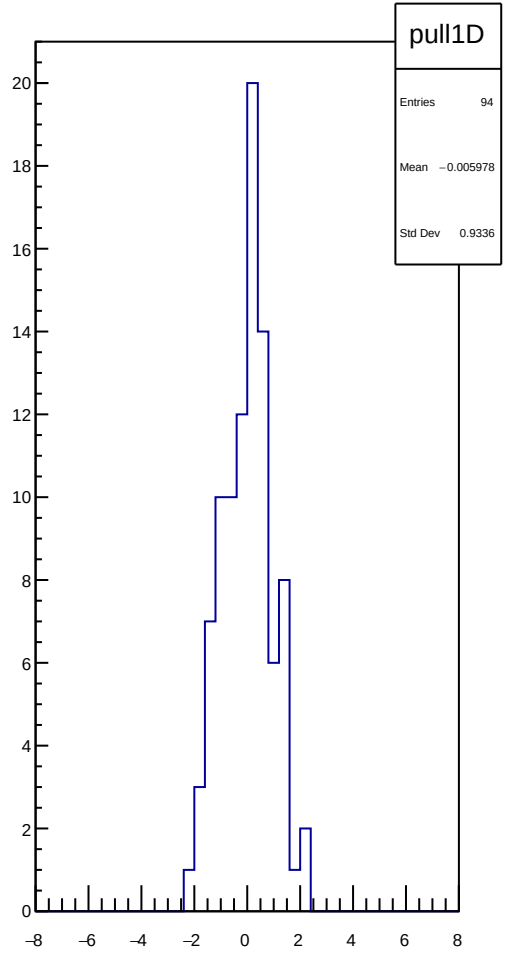

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.506e+05 / 93
p0 1.272e−11 ± 1.309e−14
0.12
0.1
0.08
0.06
0.04
0.02

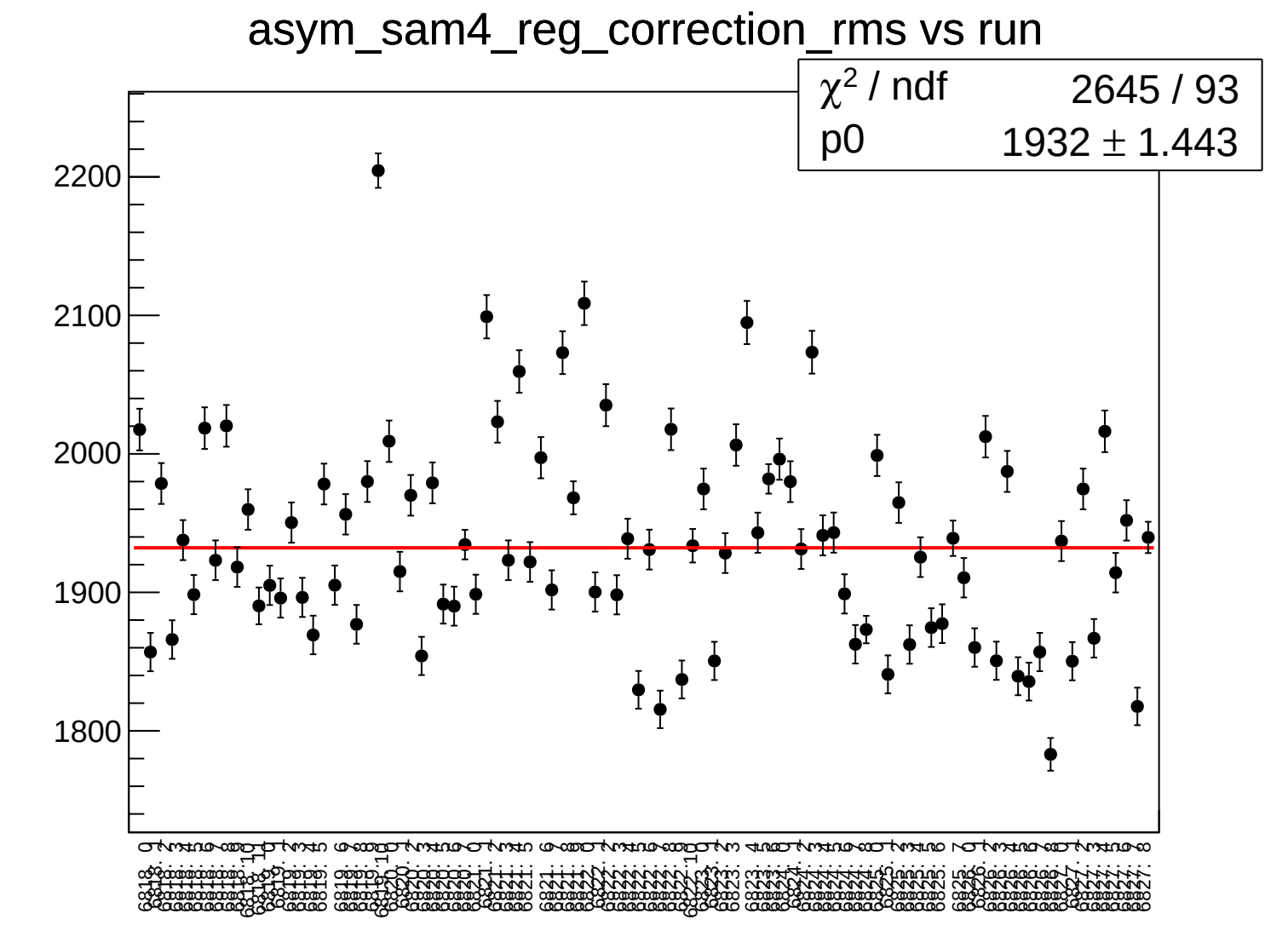

reg_asym_sam4_mean vs run
χ² / ndf 75.3 / 93
p0 −512.6 ± 276.2
pull
Entries 94
Mean 441.8
Std Dev 0

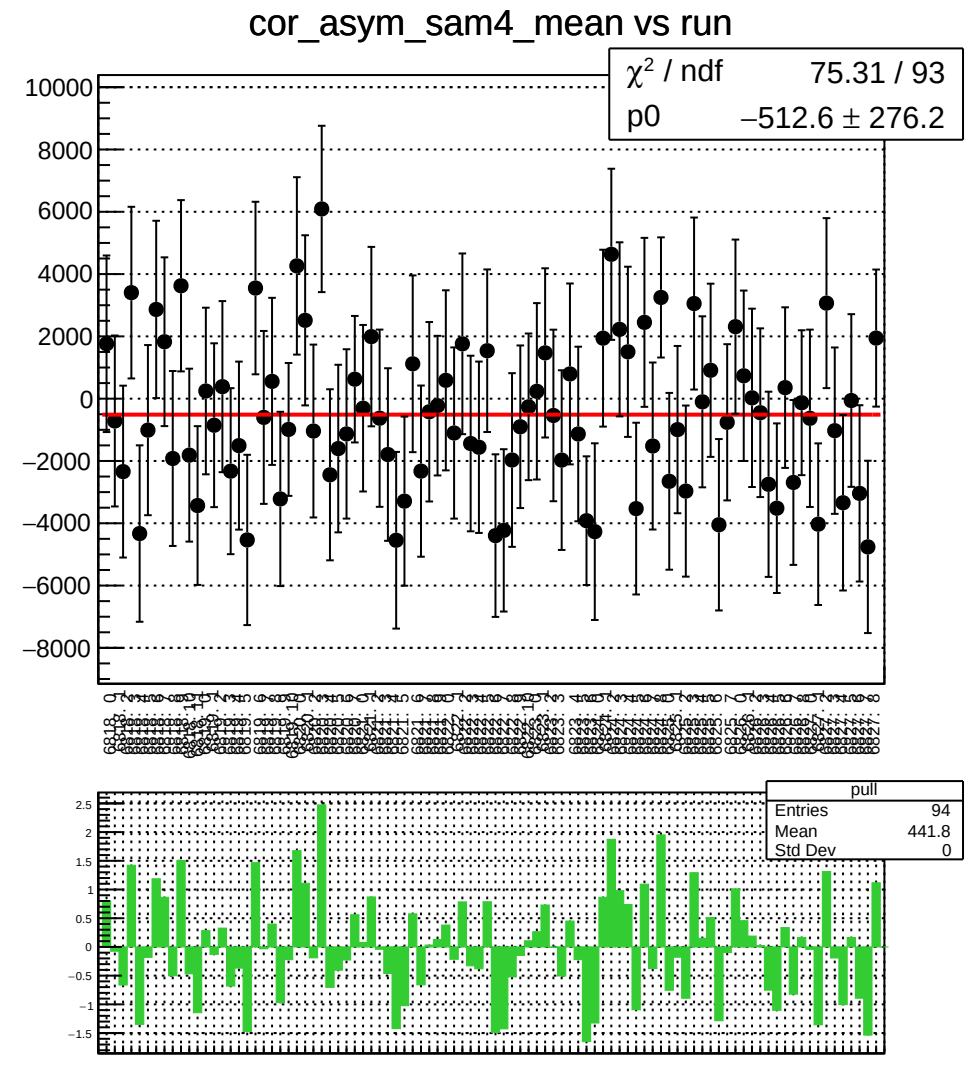

pull1D
Entries 94
Mean −0.005333
Std Dev 0.895

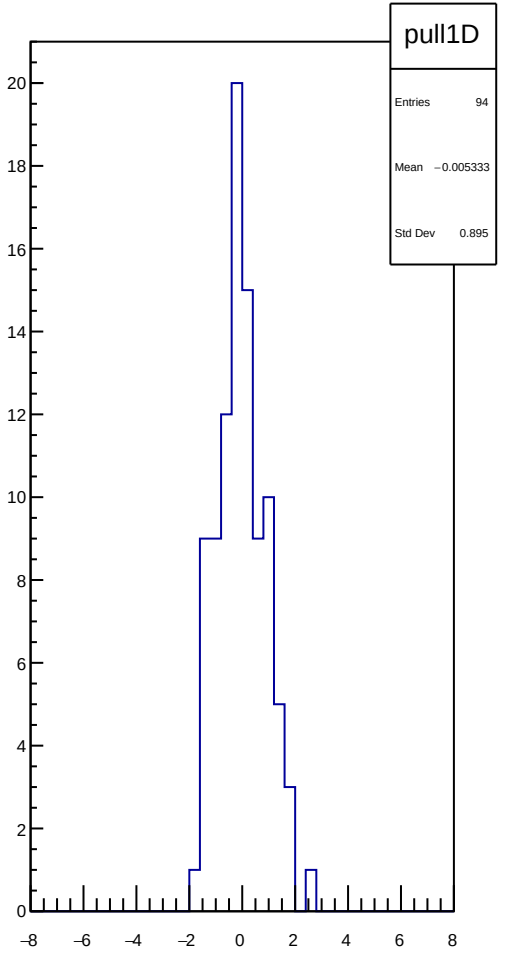

reg_asym_sam4_rms vs run
χ² / ndf 1435 / 93
p0 261.5 ± 0.1953
285
280
275
270
265
260
255
250
245
240

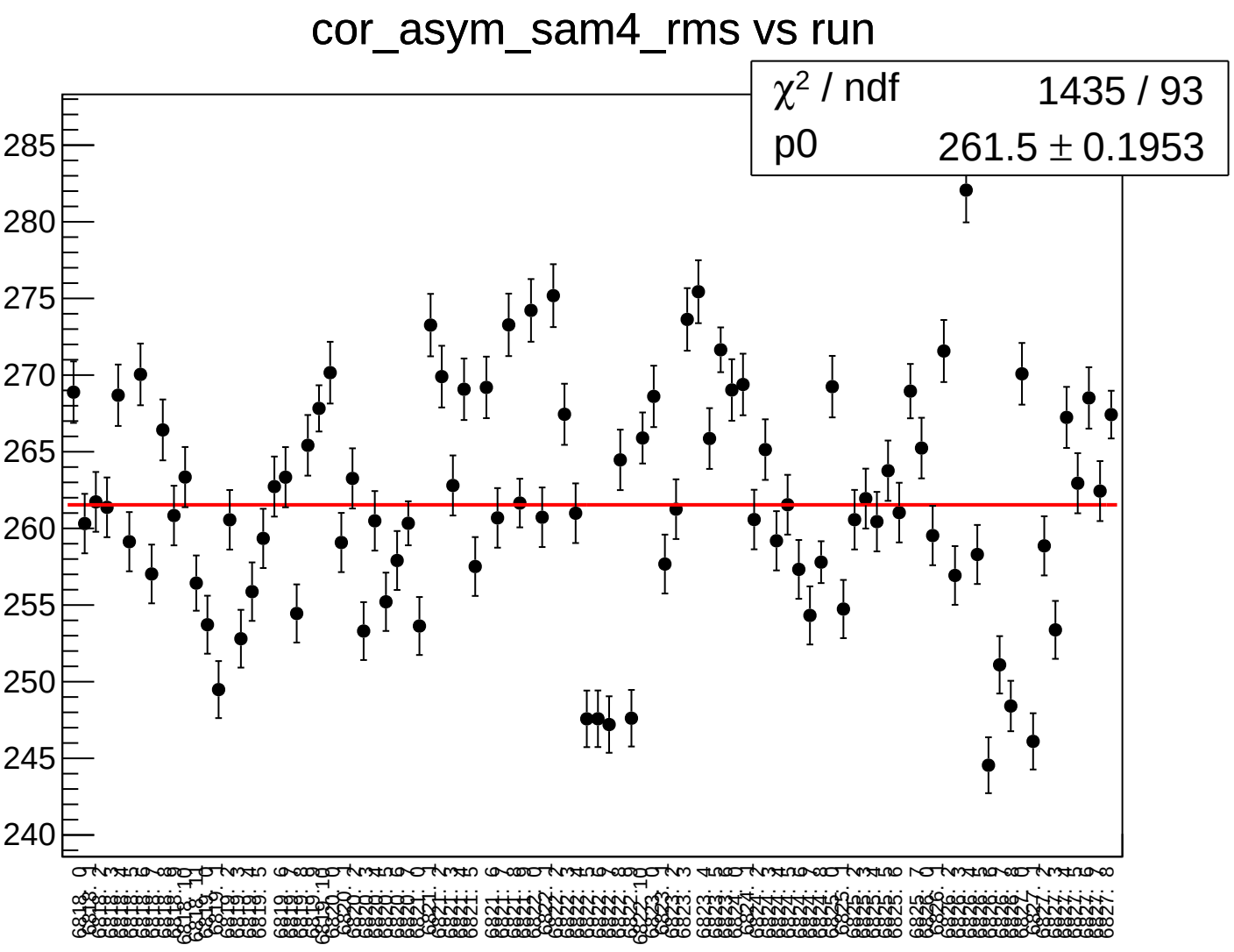

asym_sam4_reg_correction_mean vs run
χ² / ndf 81.93 / 93
p0 −24.78 ± 2041
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −140
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

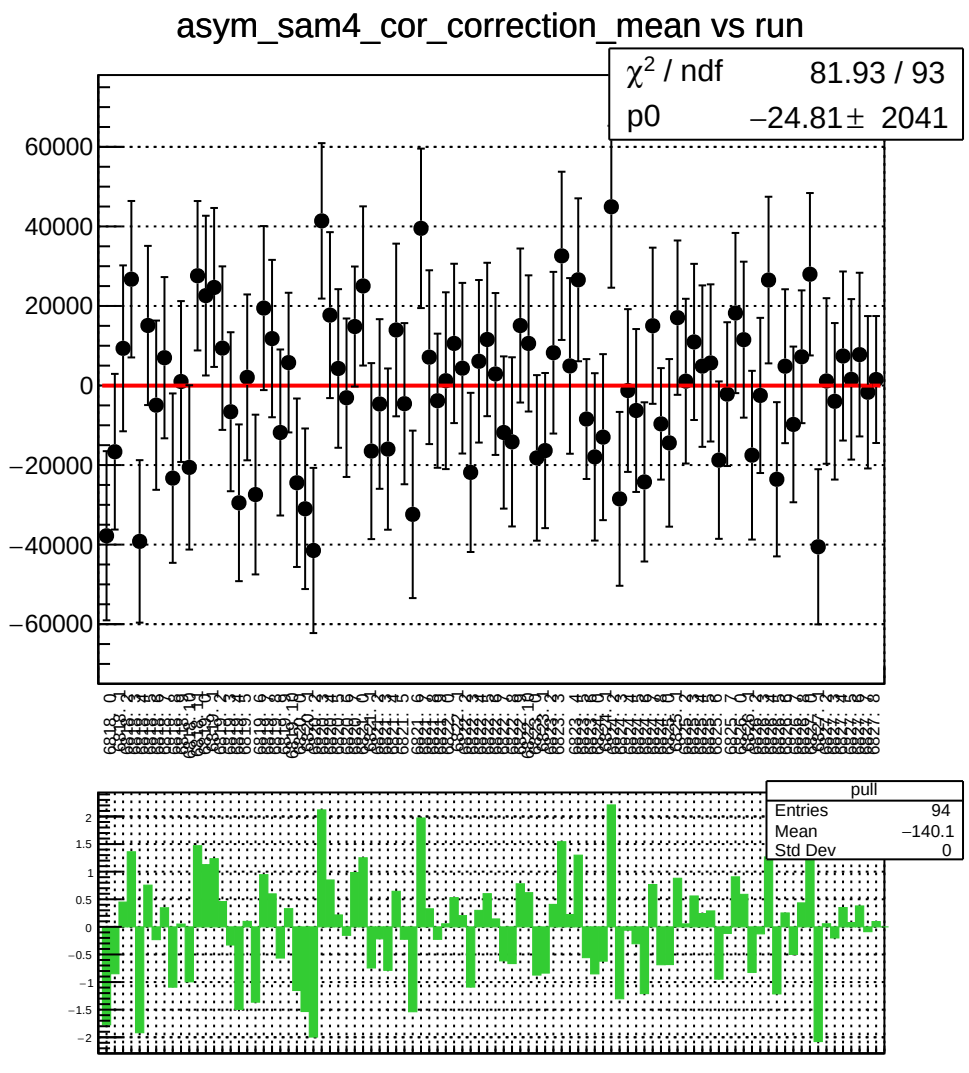

pull1D
Entries 94
Mean −0.005978
Std Dev 0.9336
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

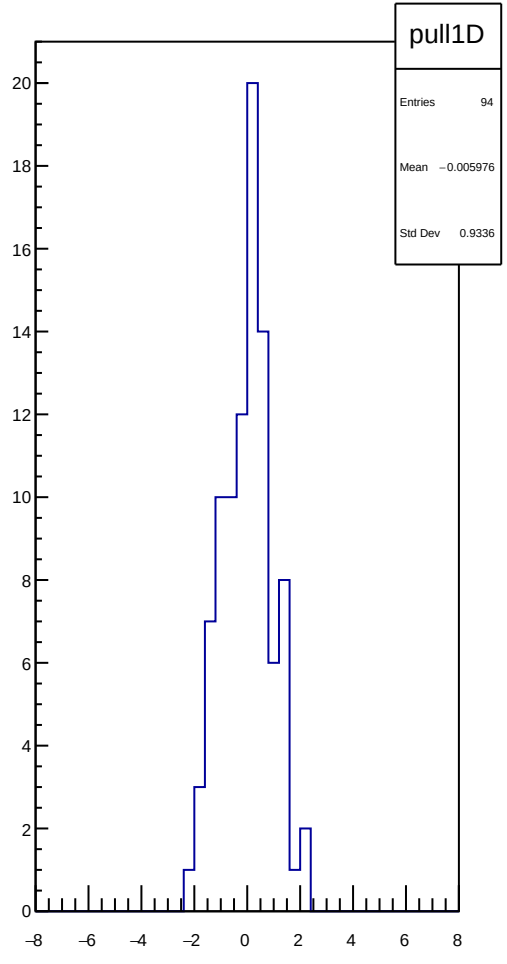

asym_sam4_reg_correction_rms vs run
χ² / ndf 2645 / 93
p0 1932 ± 1.443
2200
2100
2000
1900
1800

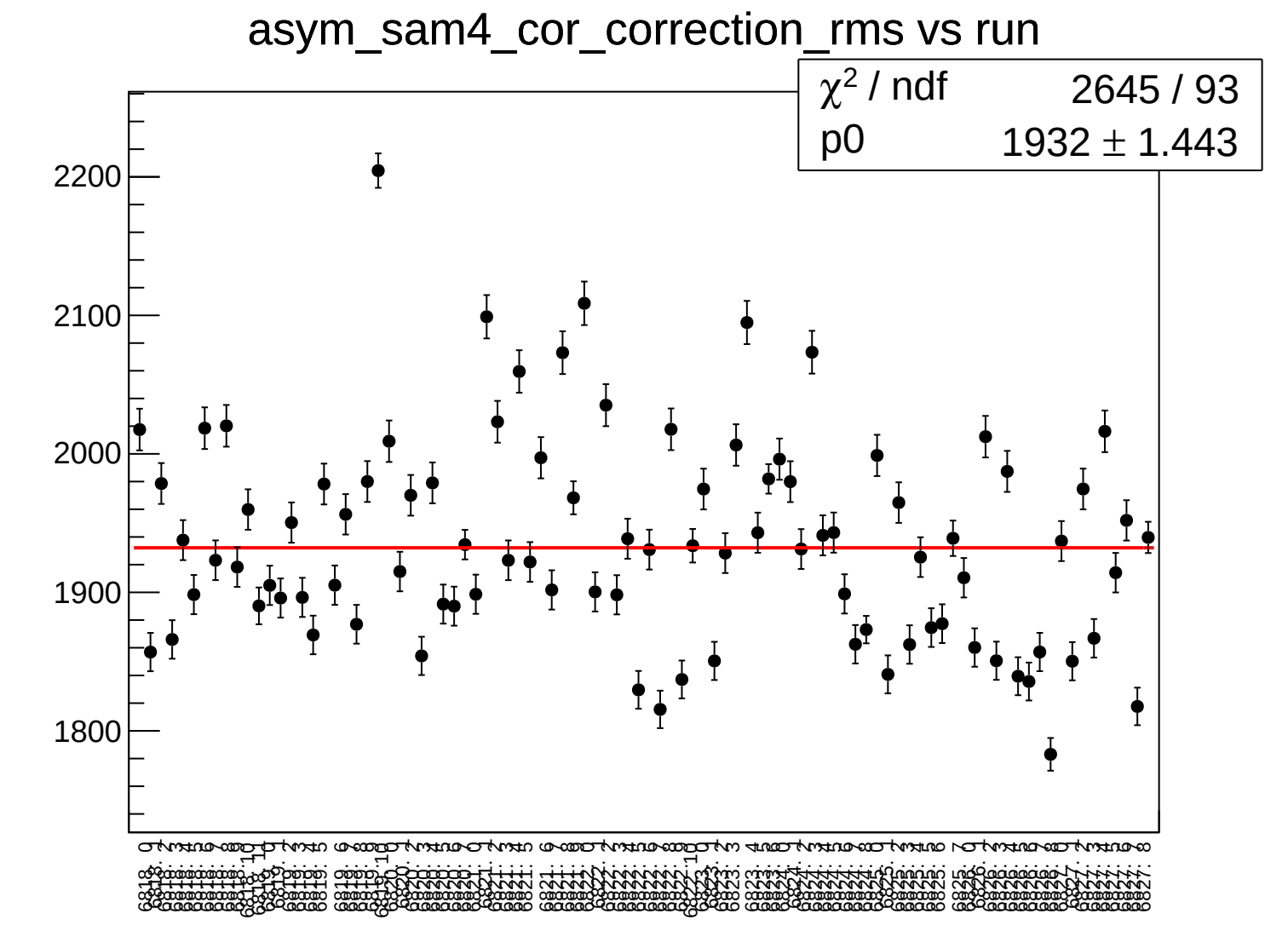

cor_asym_sam4_mean vs run
χ² / ndf 75.31 / 93
p0 −512.6 ± 276.2
pull
Entries 94
Mean 441.8
Std Dev 0

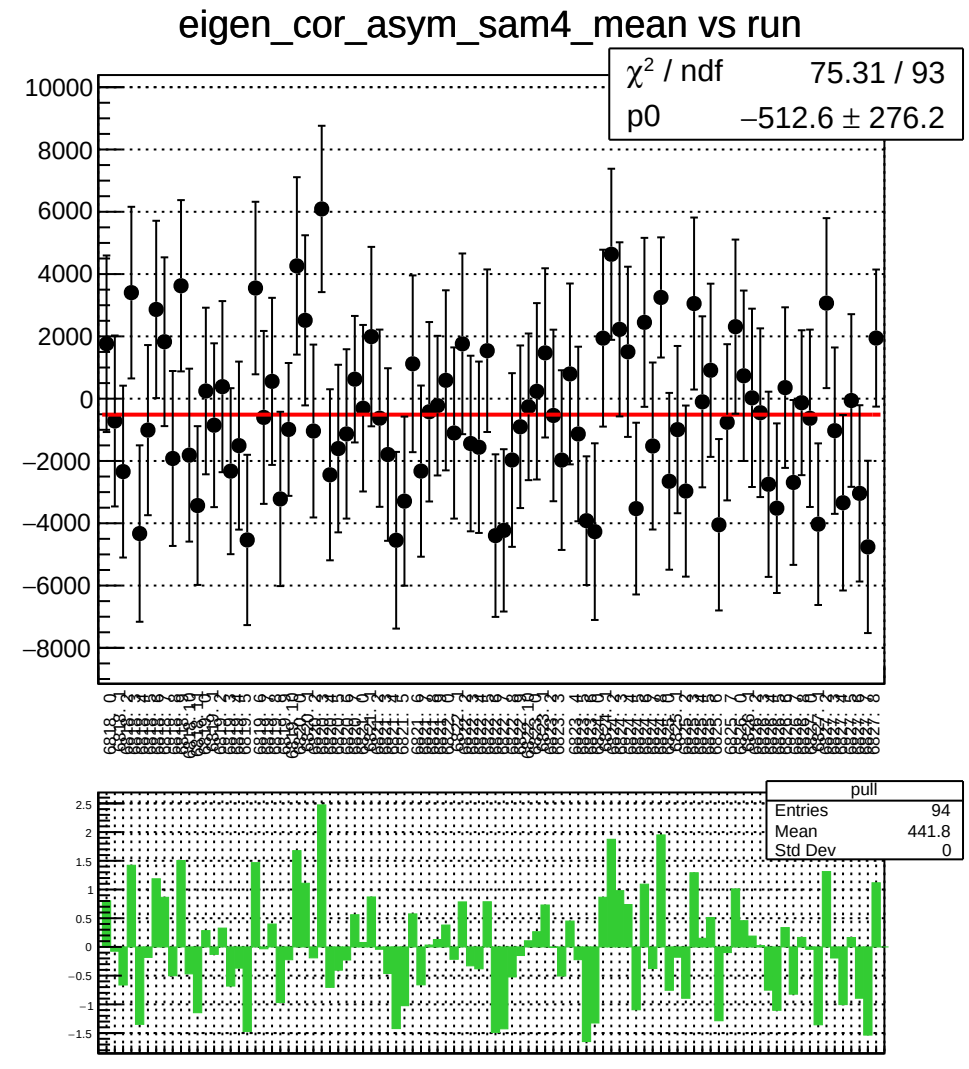

pull1D
Entries 94
Mean −0.005333
Std Dev 0.895

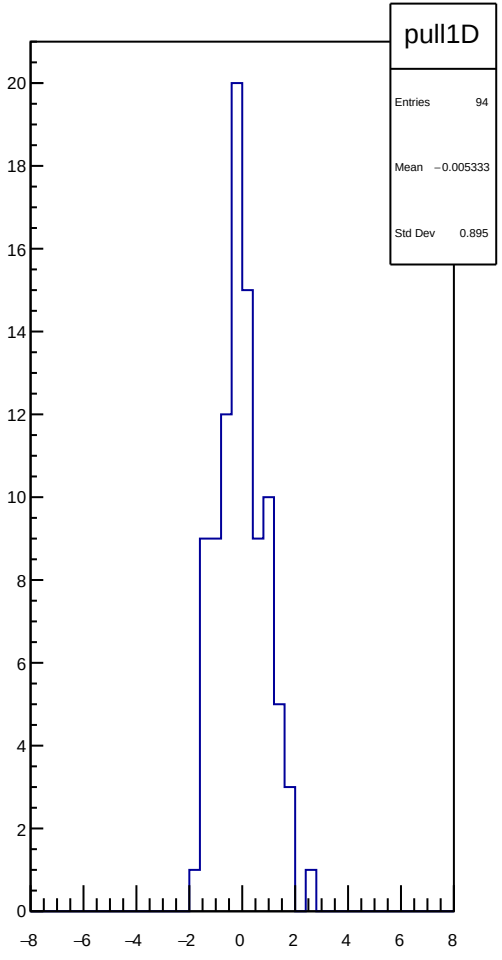

cor_asym_sam4_rms vs run
χ² / ndf 1435 / 93
p0 261.5 ± 0.1953
285
280
275
270
265
260
255
250
245
240

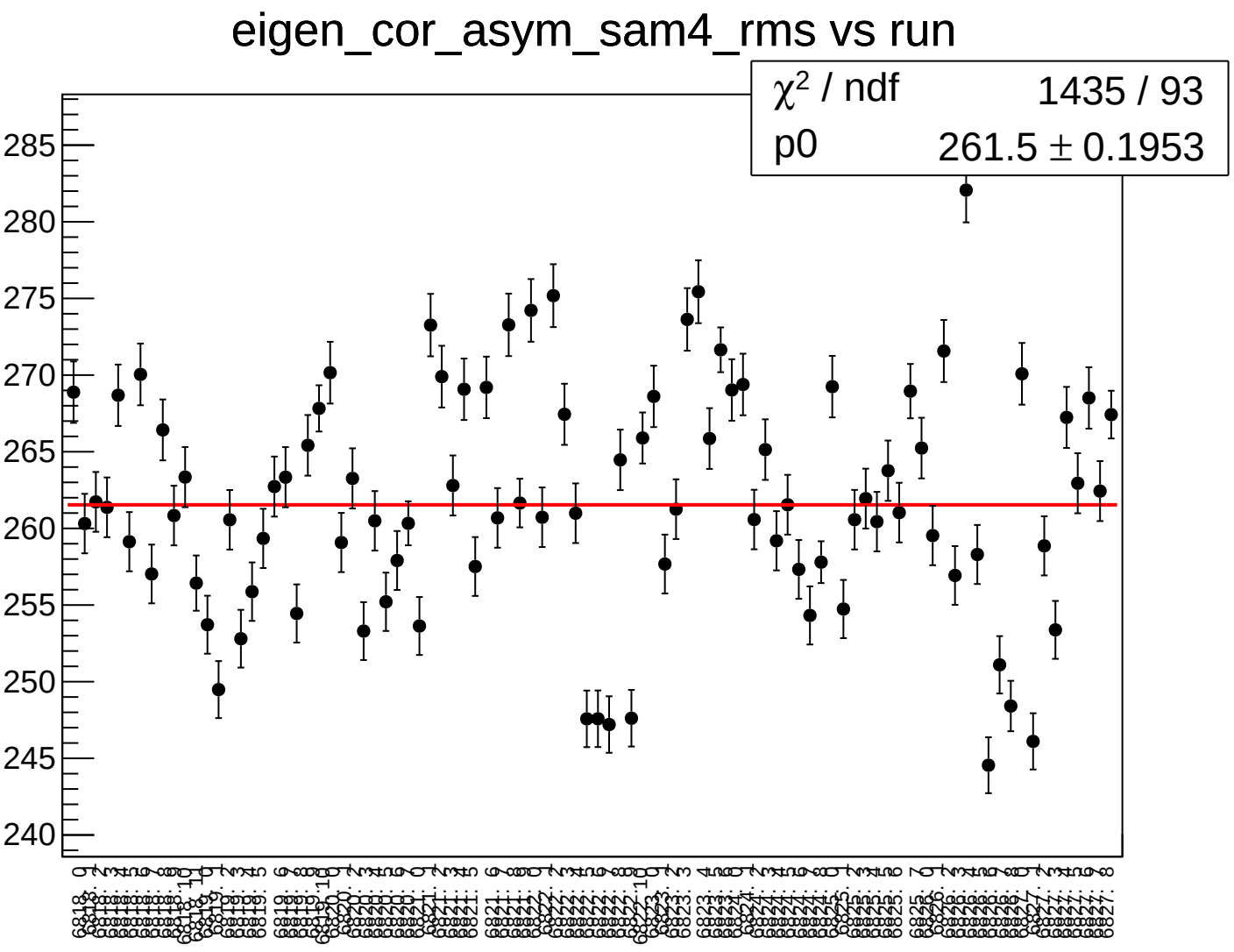

asym_sam4_cor_correction_mean vs run
χ² / ndf 81.93 / 93
p0 −24.81± 2041
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −140.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

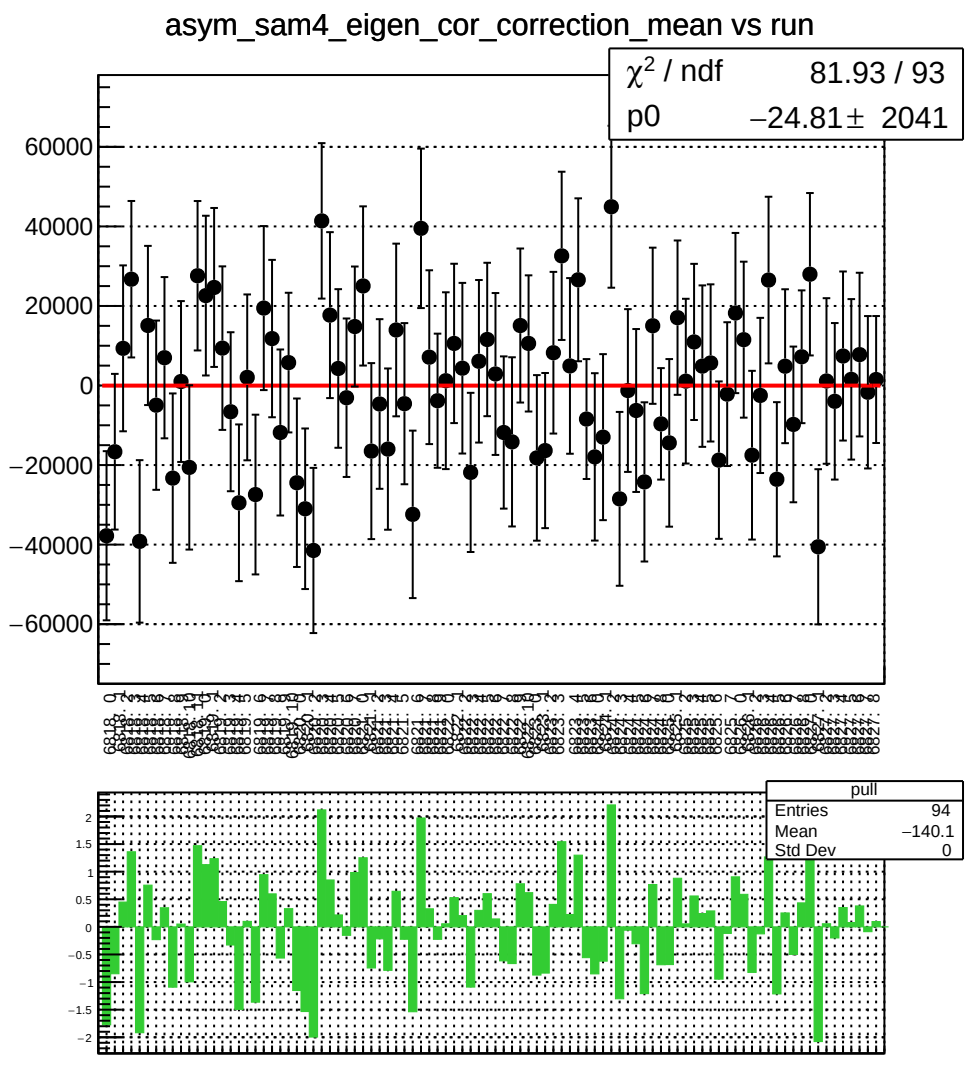

pull1D
Entries 94
Mean −0.005976
Std Dev 0.9336
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

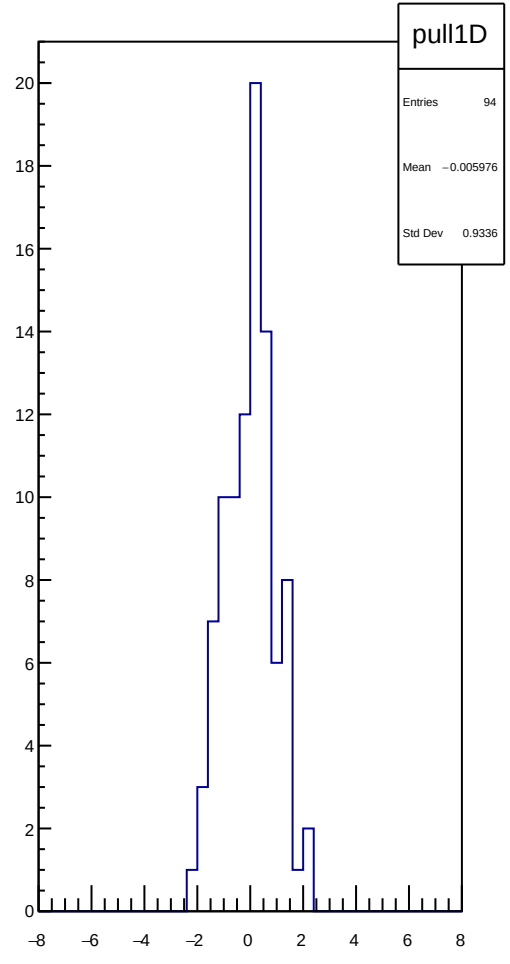

asym_sam4_cor_correction_rms vs run
χ² / ndf 2645 / 93
p0 1932 ± 1.443
2200
2100
2000
1900
1800

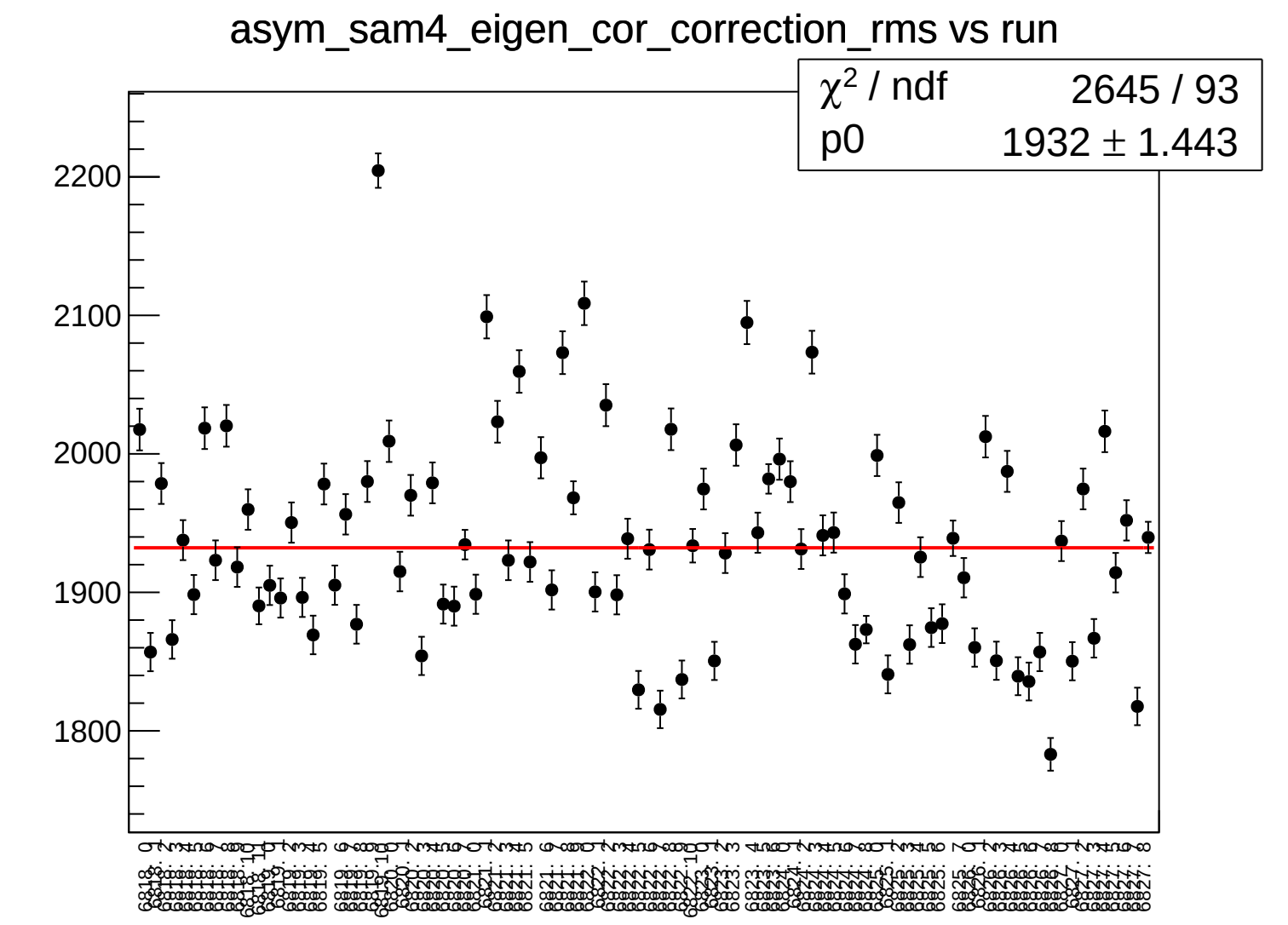

eigen_cor_asym_sam4_mean vs run
χ² / ndf 75.31 / 93
p0 −512.6 ± 276.2
pull
Entries 94
Mean 441.8
Std Dev 0

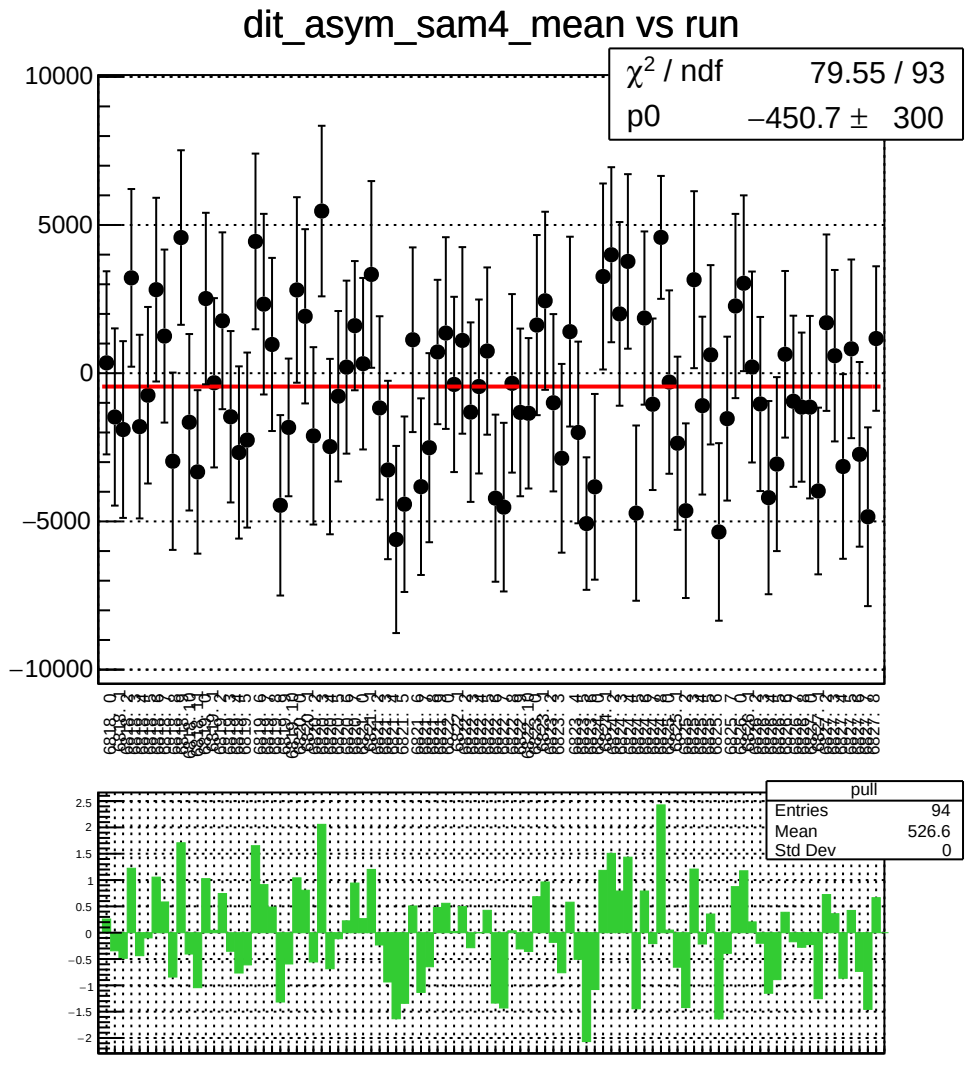

pull1D
Entries 94
Mean −0.005333
Std Dev 0.895

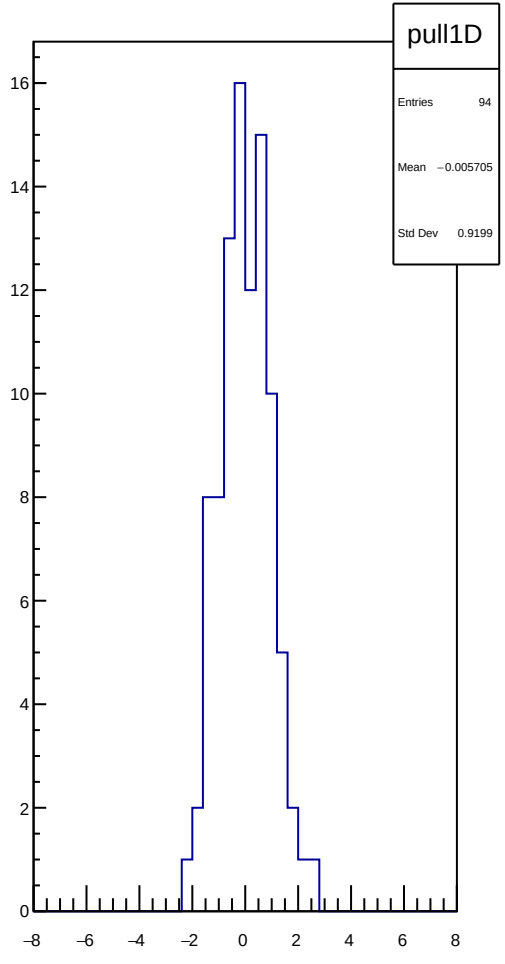

eigen_cor_asym_sam4_rms vs run
χ² / ndf 1435 / 93
p0 261.5 ± 0.1953
285
280
275
270
265
260
255
250
245
240

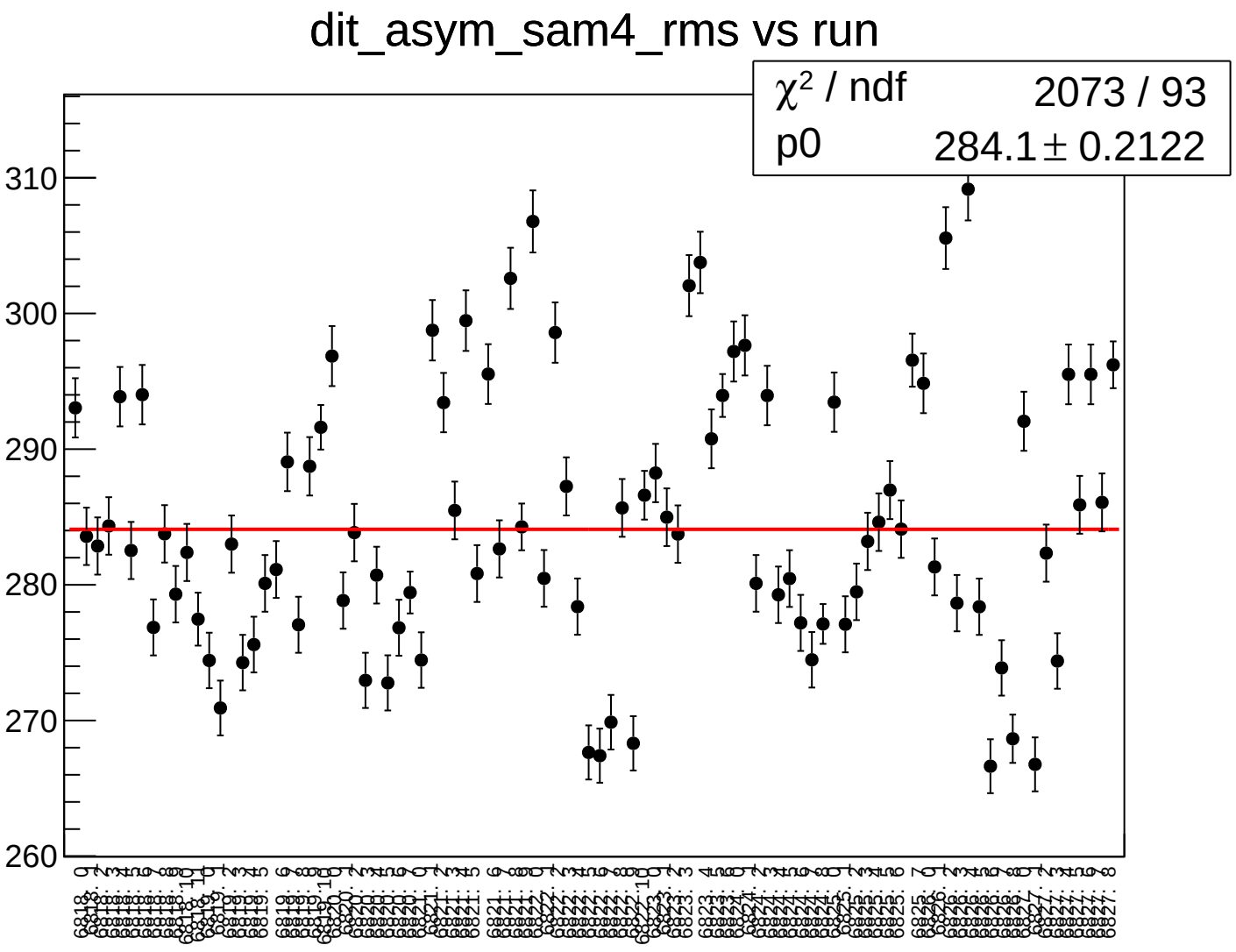

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 81.93 / 93
p0 −24.81± 2041
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −140.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

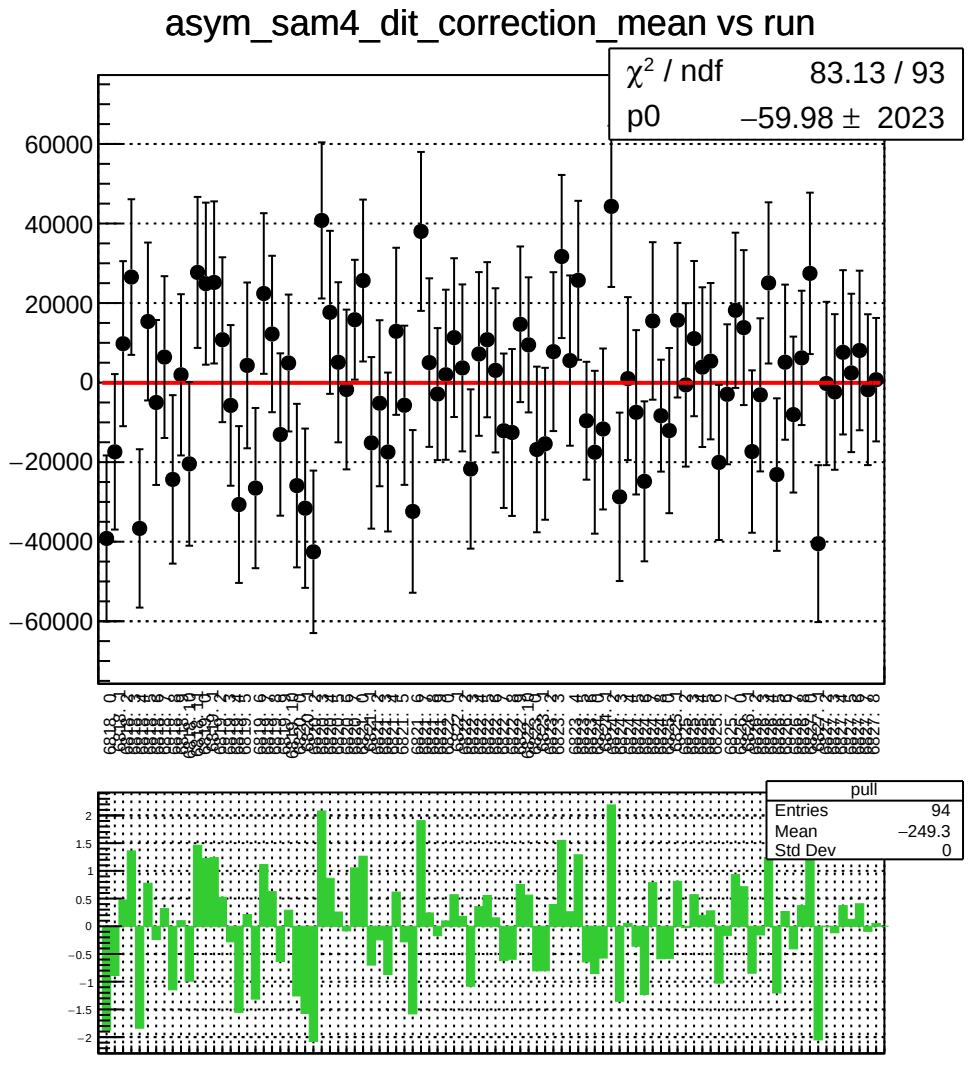

pull1D
Entries 94
Mean −0.005976
Std Dev 0.9336
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

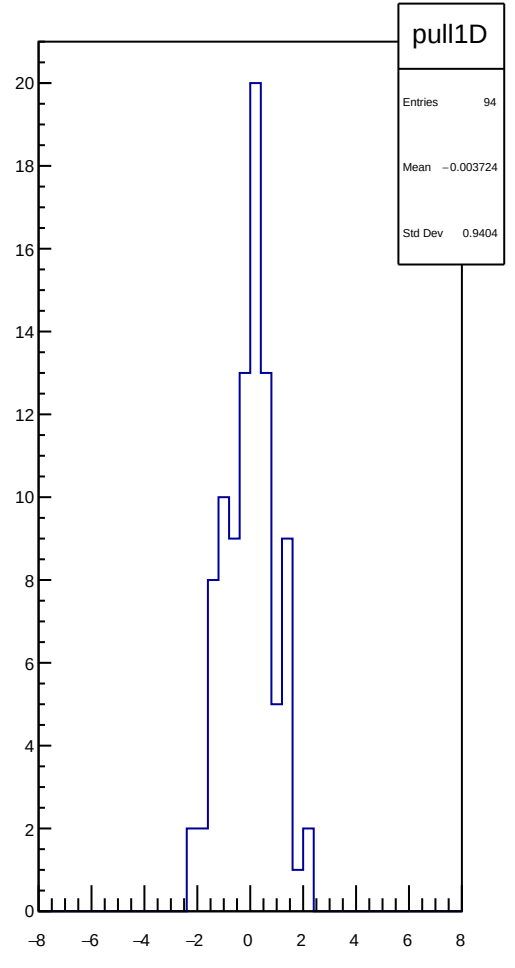

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 2645 / 93
p0 1932 ± 1.443
2200
2100
2000
1900
1800

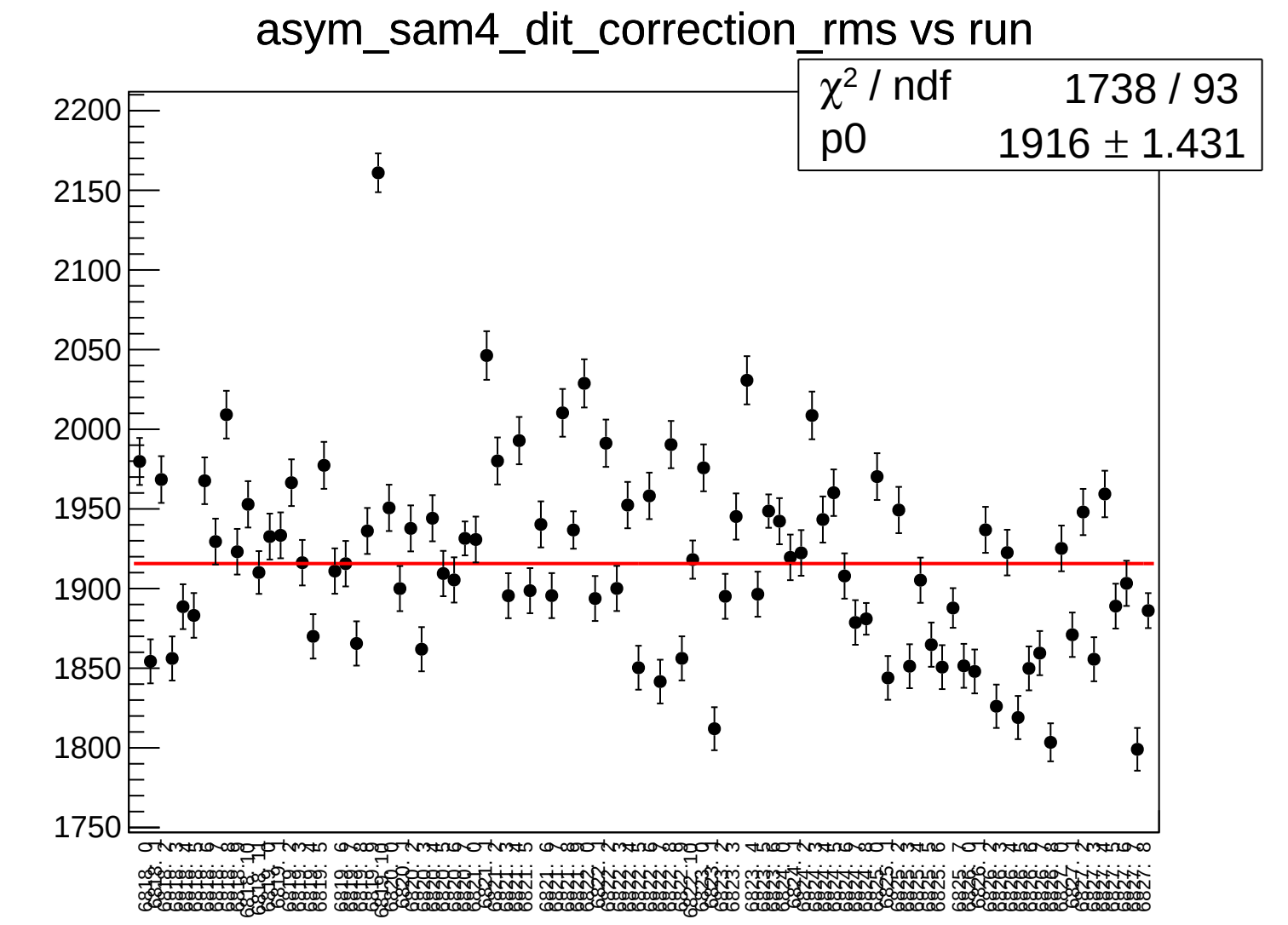

dit_asym_sam4_mean vs run
χ² / ndf 79.55 / 93
p0 −450.7 ± 300
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 526.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

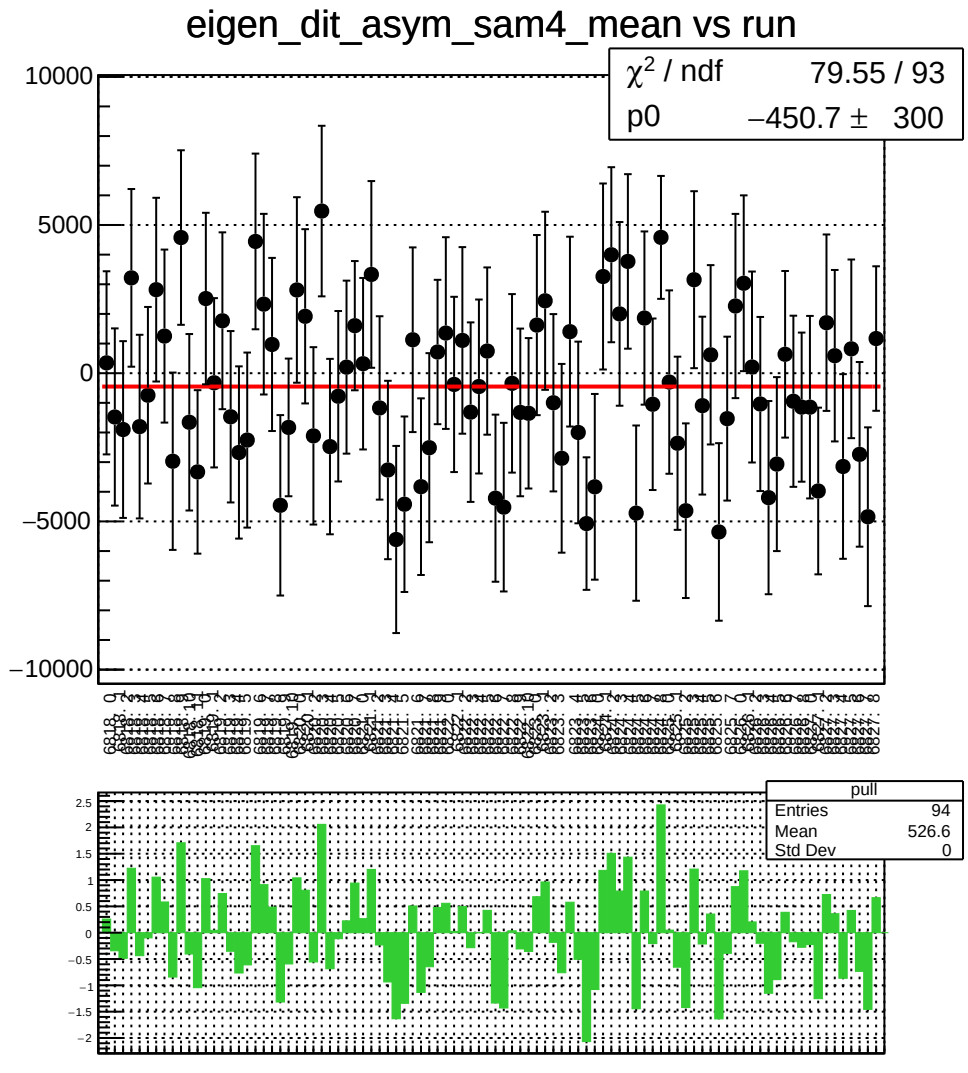

pull1D
Entries 94
Mean −0.005705
Std Dev 0.9199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

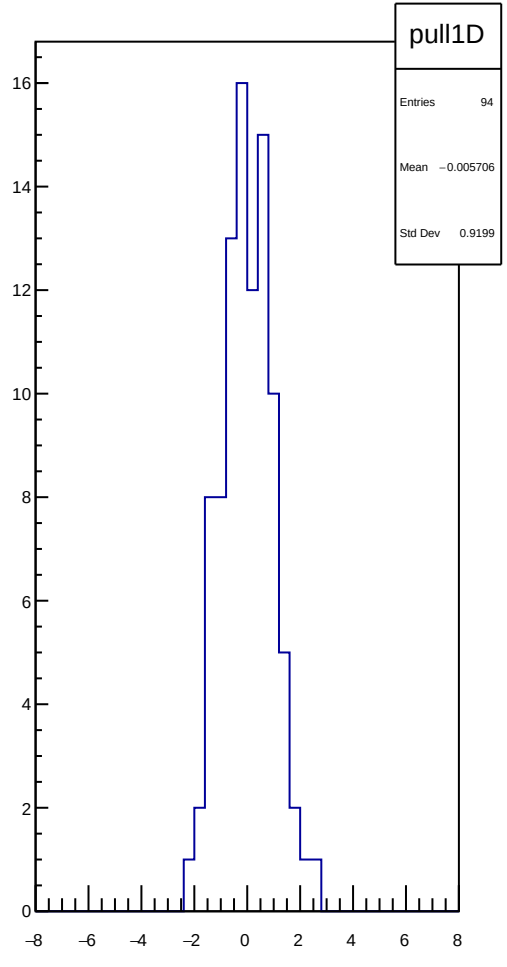

dit_asym_sam4_rms vs run
χ² / ndf 2073 / 93
p0 284.1 ± 0.2122
310
300
290
280
270
260

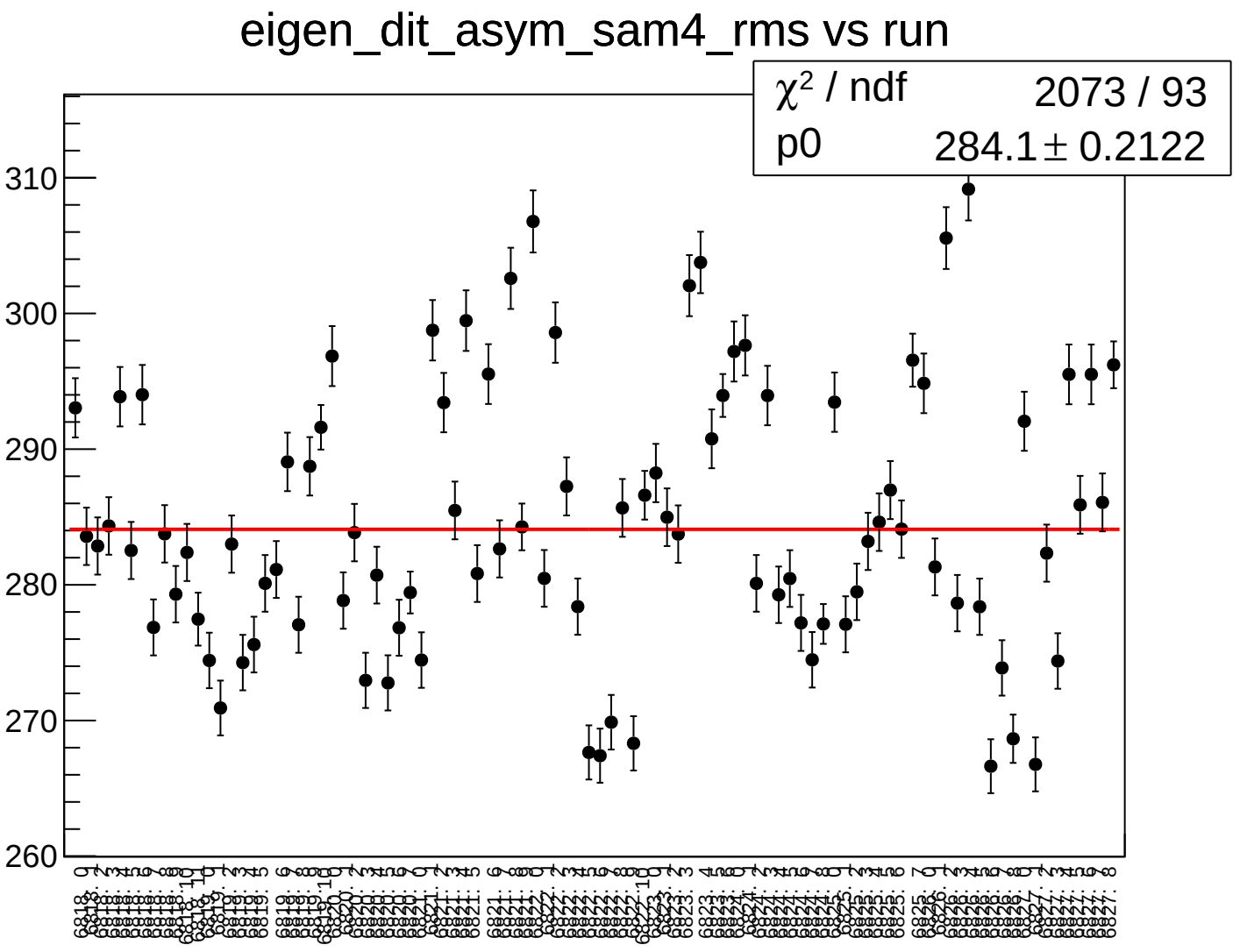

asym_sam4_dit_correction_mean vs run
χ² / ndf 83.13 / 93
p0 −59.98 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −249.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

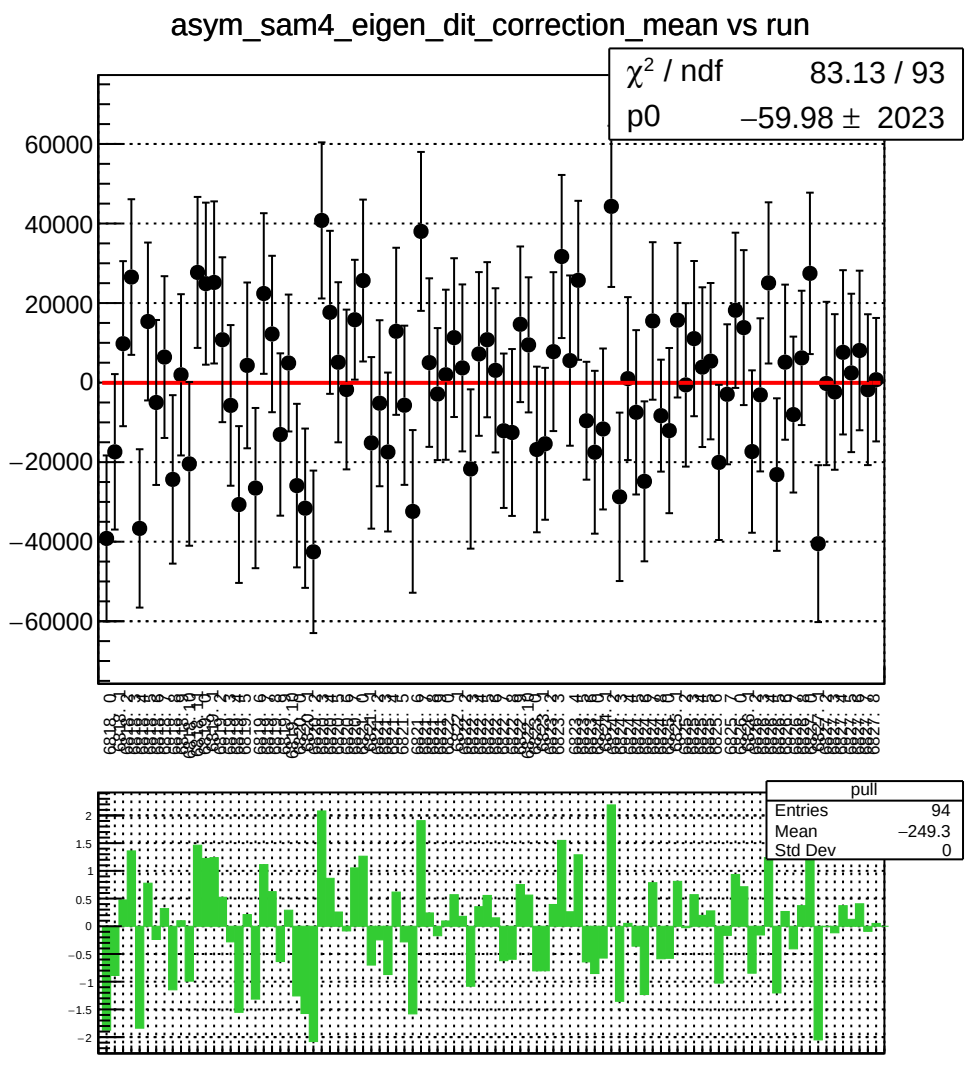

pull1D
Entries 94
Mean −0.003724
Std Dev 0.9404
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

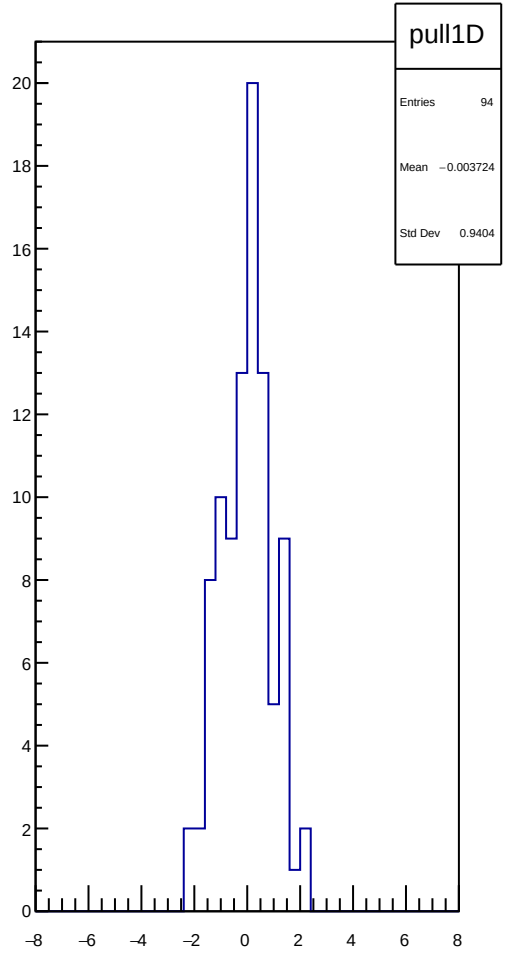

asym_sam4_dit_correction_rms vs run
χ² / ndf 1738 / 93
p0 1916 ± 1.431
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

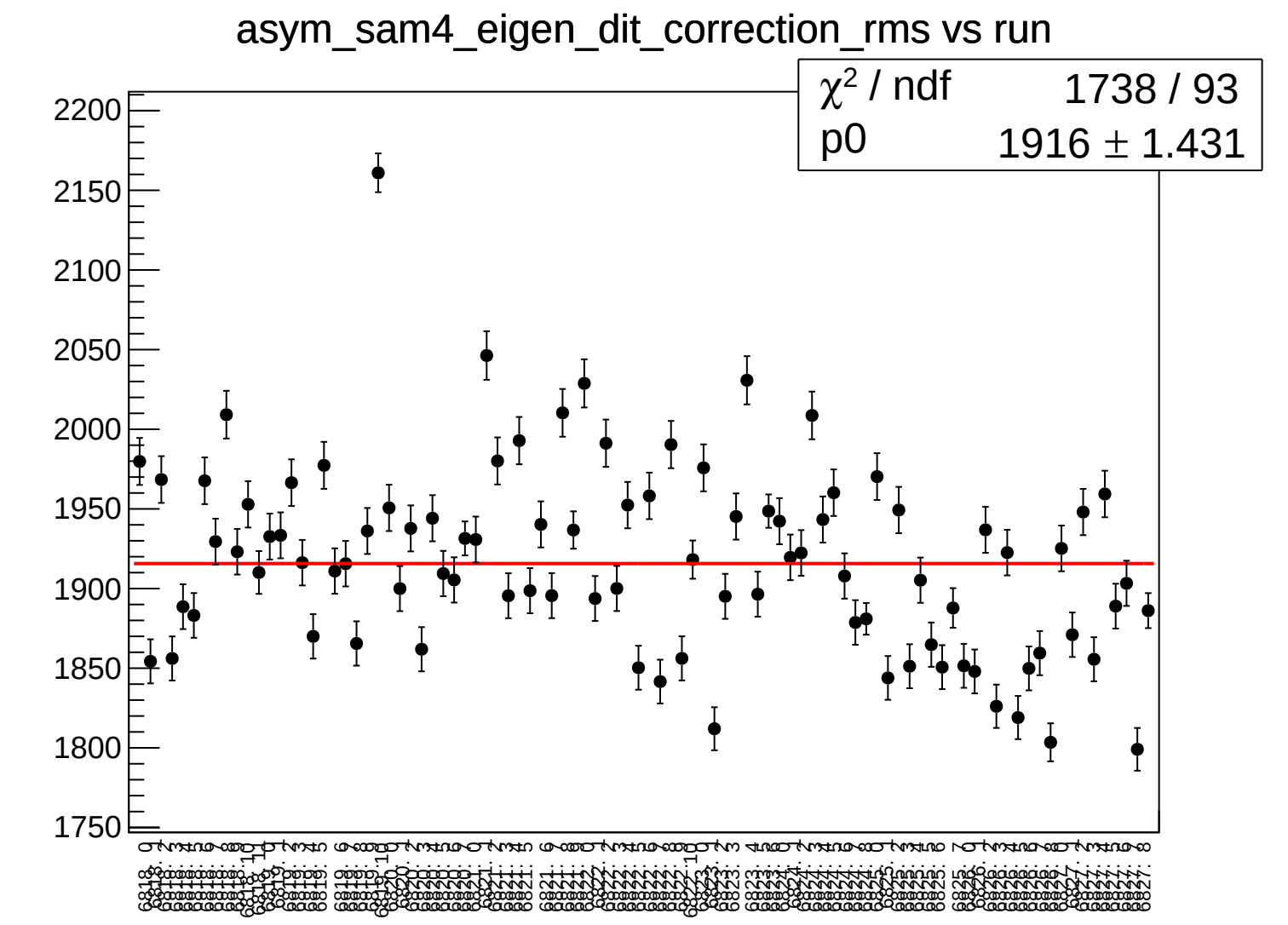

eigen_dit_asym_sam4_mean vs run
χ² / ndf 79.55 / 93
p0 −450.7 ± 300
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 526.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

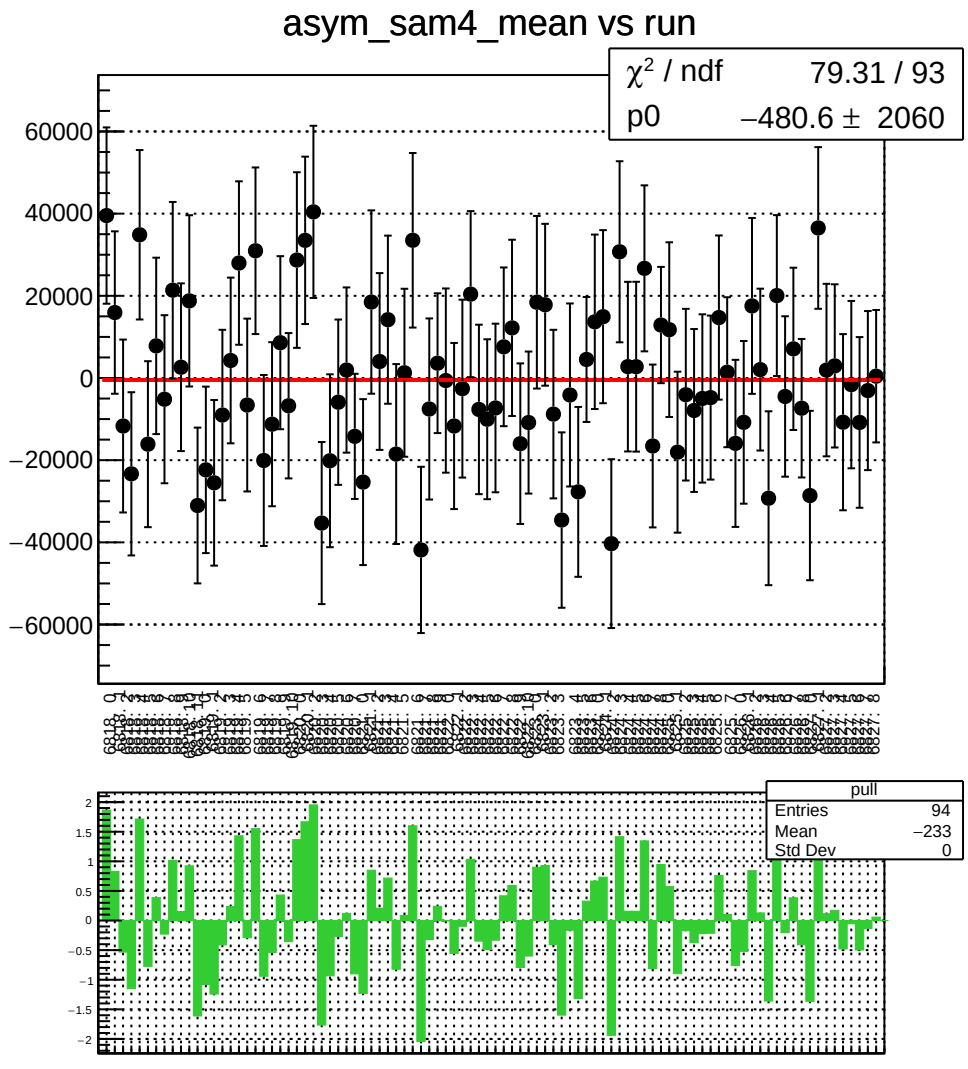

pull1D
Entries 94
Mean −0.005706
Std Dev 0.9199
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

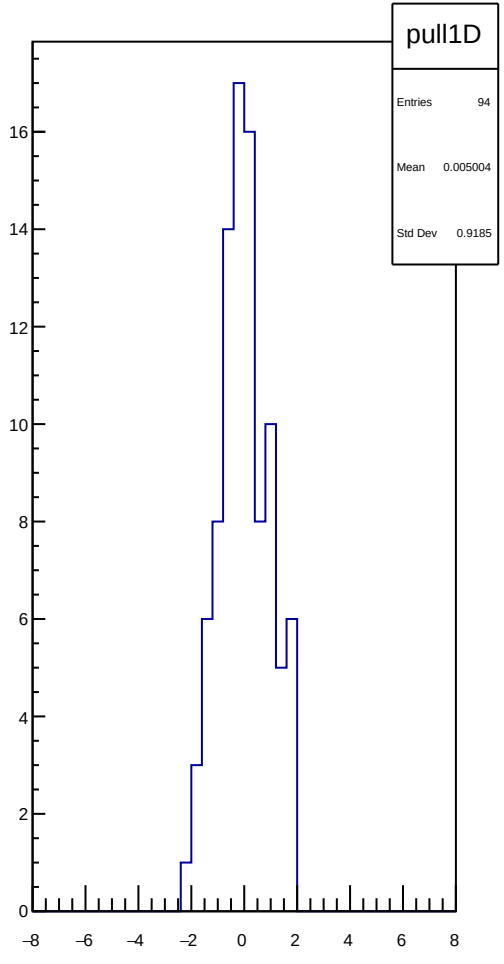

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2073 / 93
p0 284.1 ± 0.2122
310
300
290
280
270
260

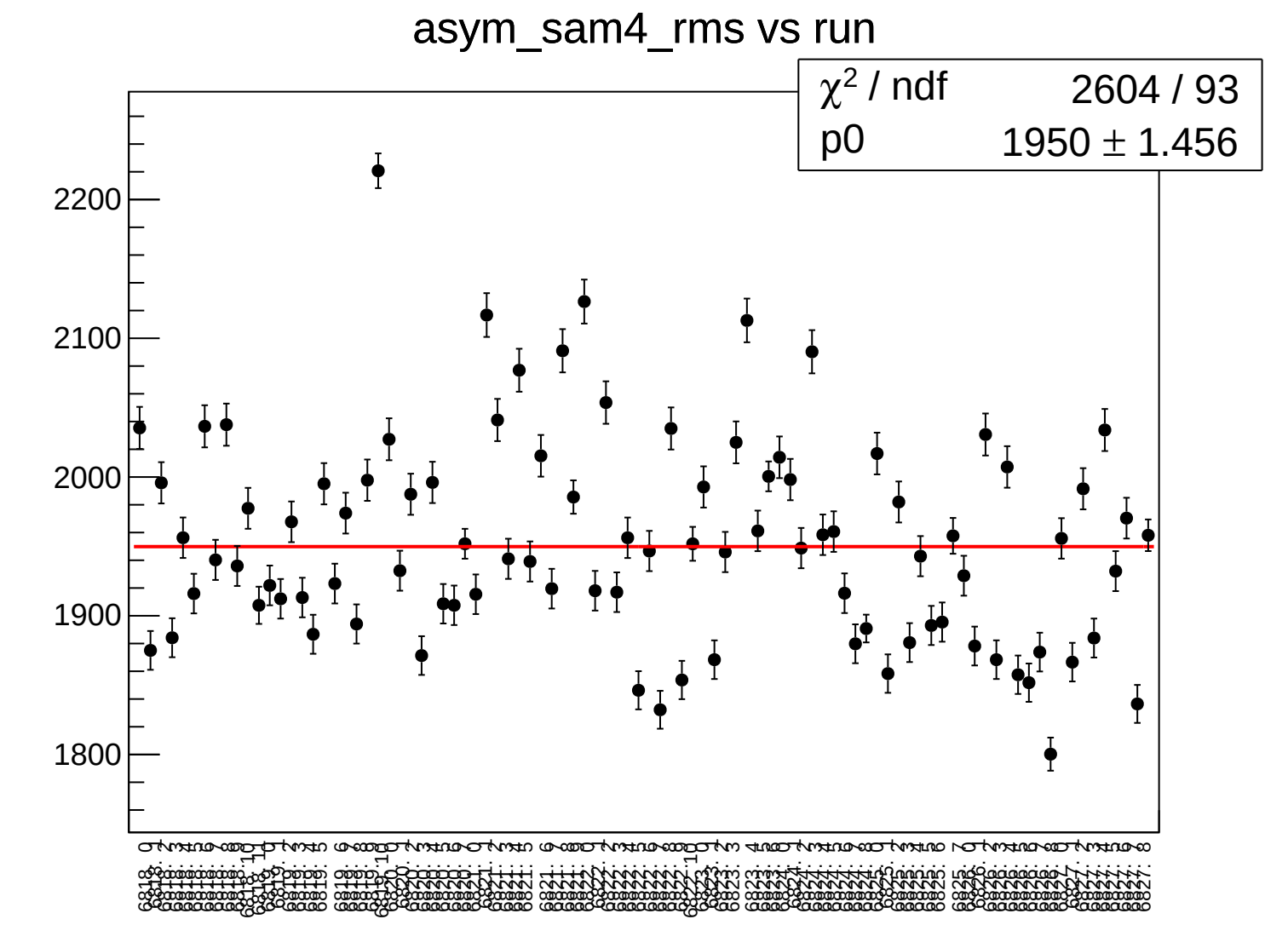

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 83.13 / 93
p0 −59.98 ± 2023
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −249.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

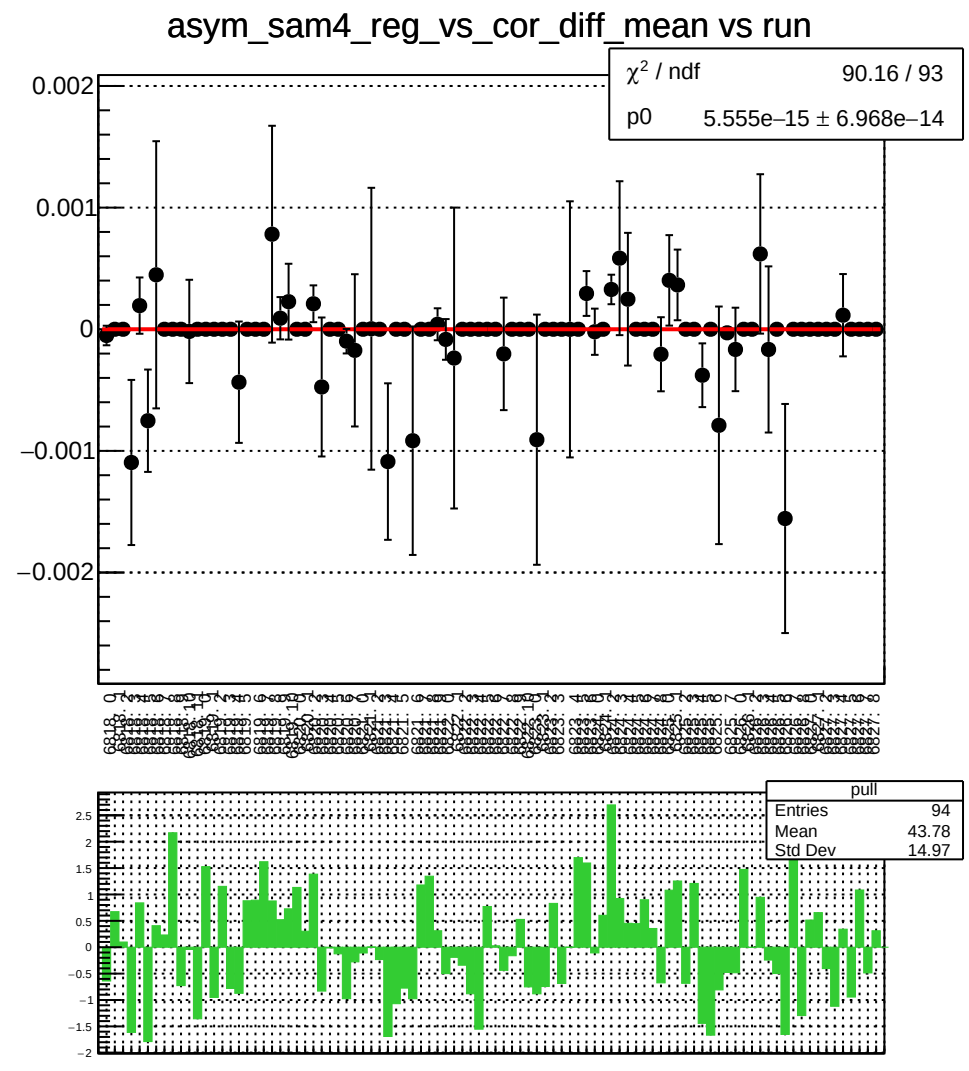

pull1D
Entries 94
Mean −0.003724
Std Dev 0.9404
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

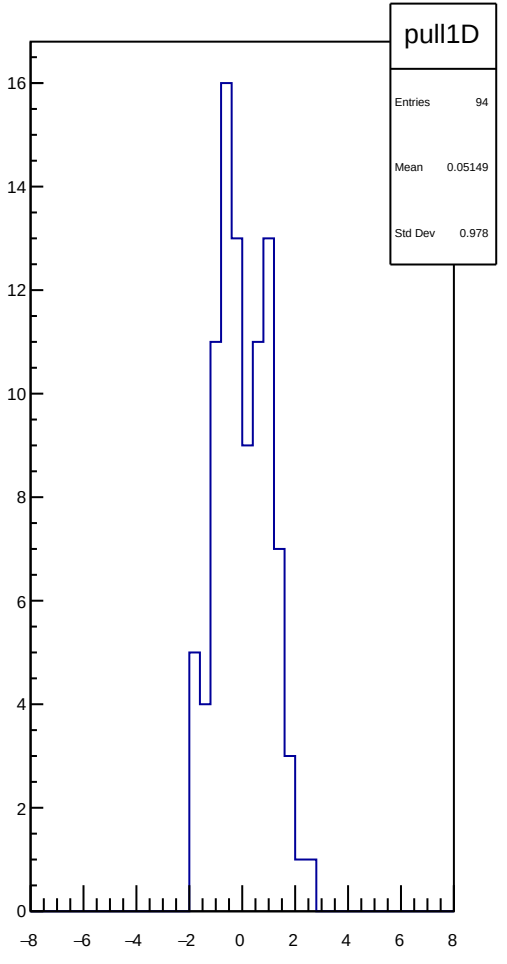

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1738 / 93
p0 1916 ± 1.431
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

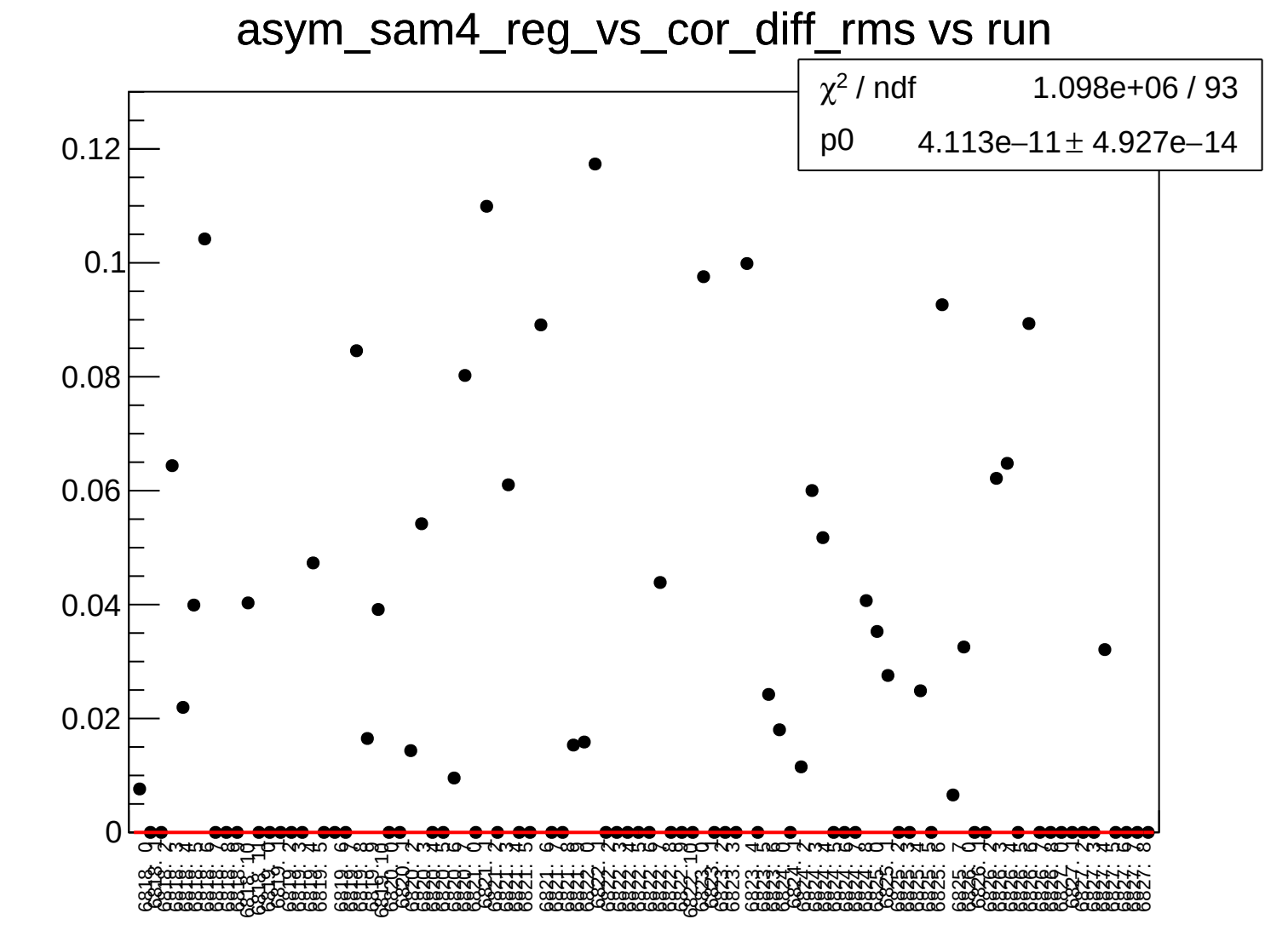

asym_sam4_mean vs run
χ² / ndf 79.31 / 93
p0 −480.6 ± 2060
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −233
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

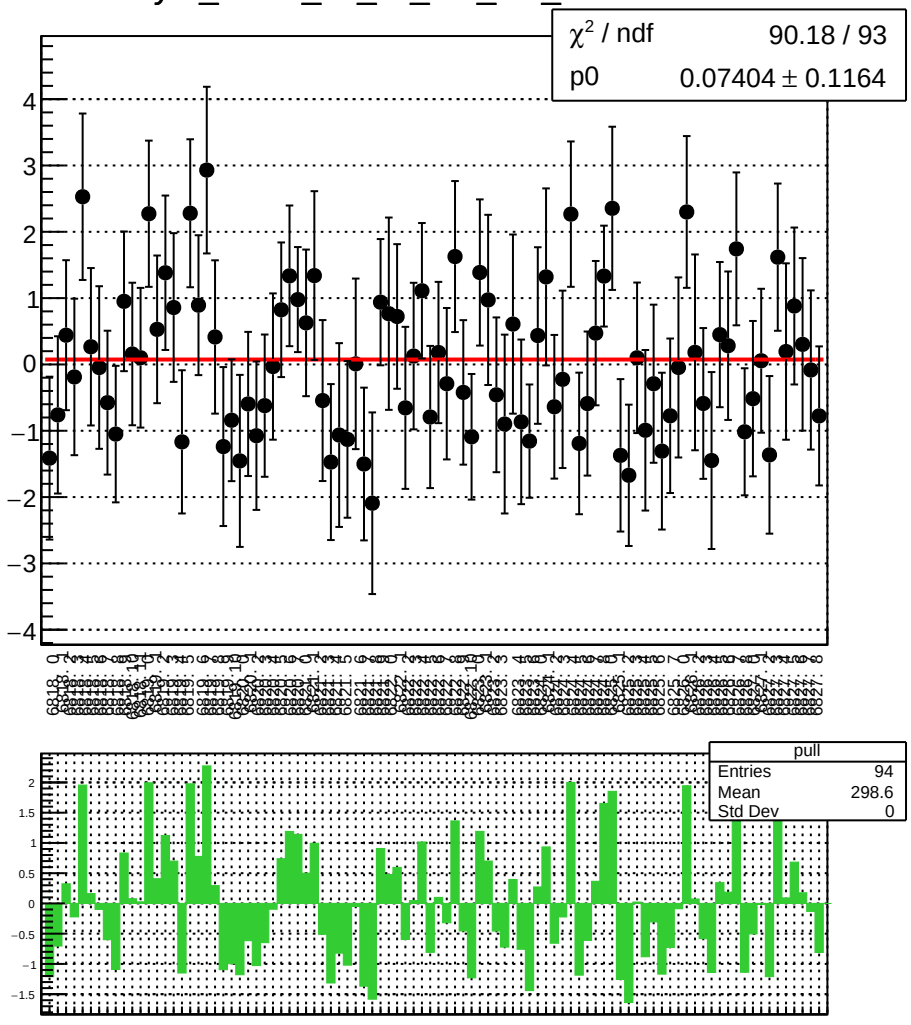

pull1D
Entries 94
Mean 0.005004
Std Dev 0.9185
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

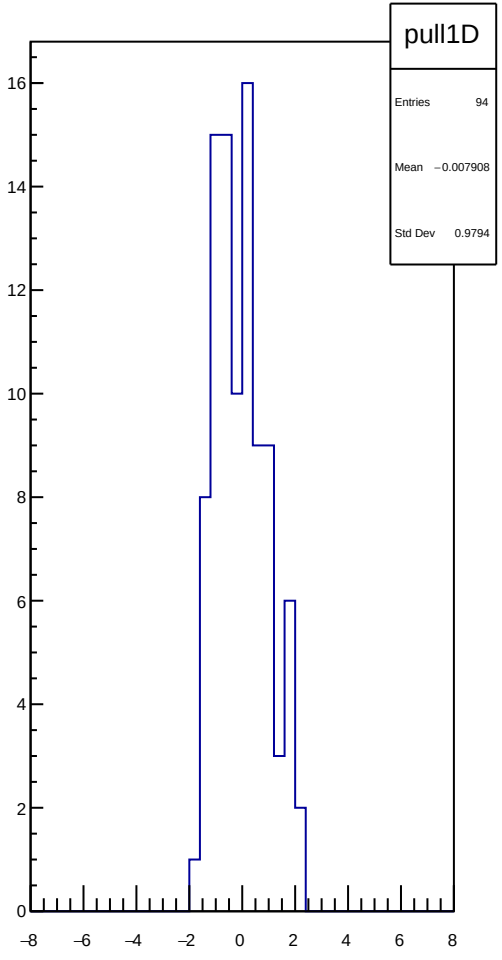

asym_sam4_rms vs run
χ² / ndf 2604 / 93
p0 1950 ± 1.456
2200
2100
2000
1900
1800

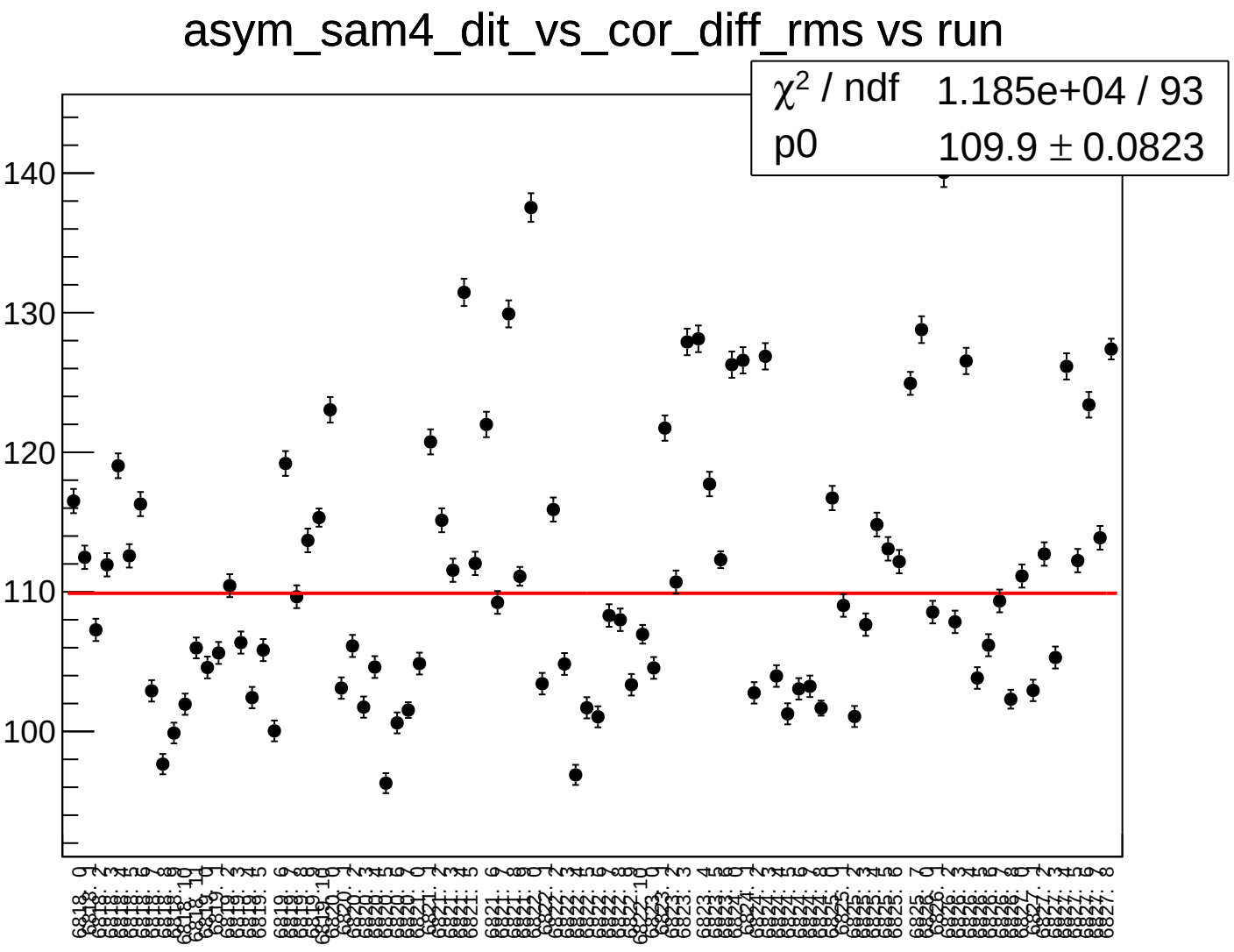

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 90.16 / 93
p0 5.555e−15 ± 6.968e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 94
Mean 43.78
Std Dev 14.97
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

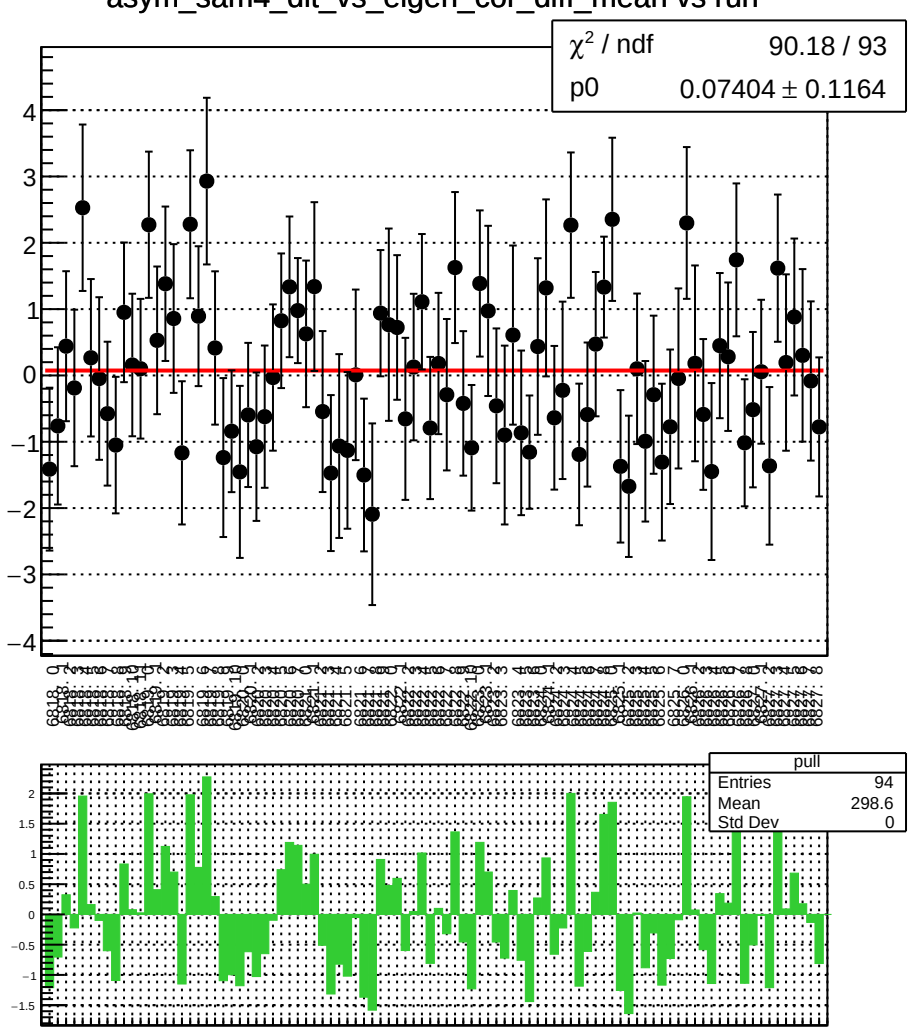

pull1D
Entries 94
Mean 0.05149
Std Dev 0.978
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

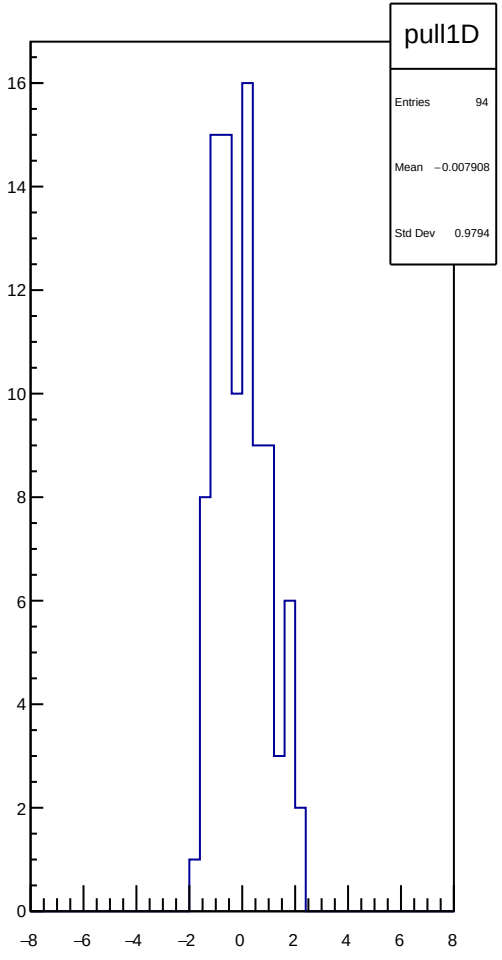

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.098e+06 / 93
p0 4.113e−11 ± 4.927e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

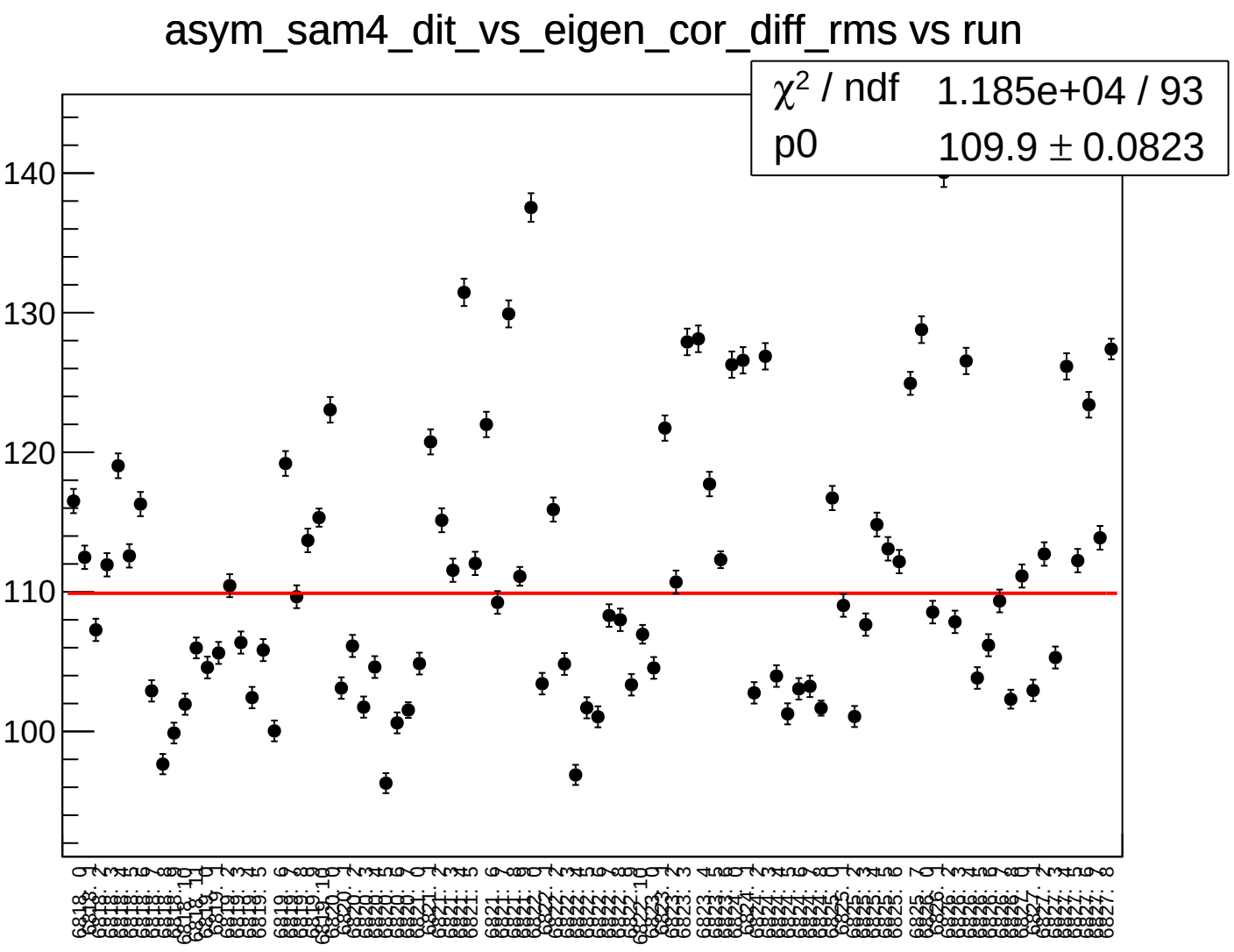

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 90.18 / 93
p0 0.07404 ± 0.1164
pull
Entries 94
Mean 298.6
Std Dev 0

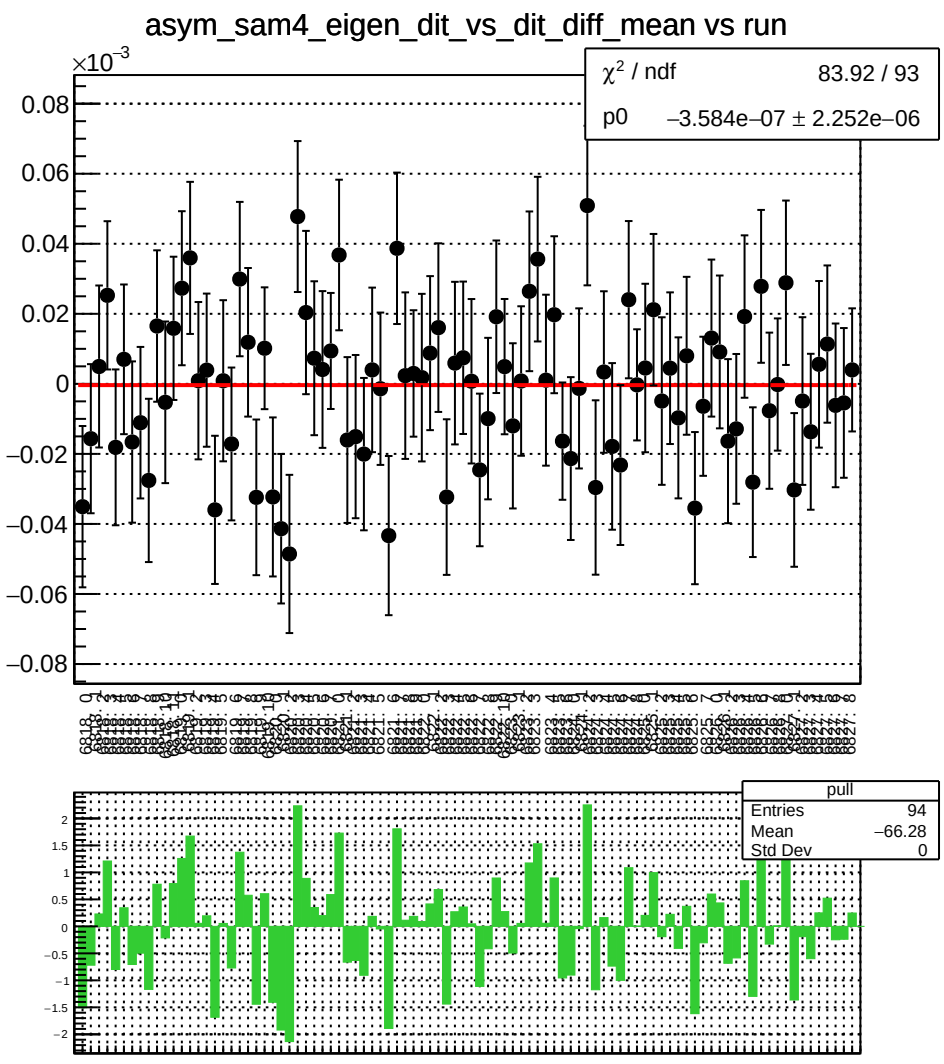

pull1D
Entries 94
Mean −0.007908
Std Dev 0.9794

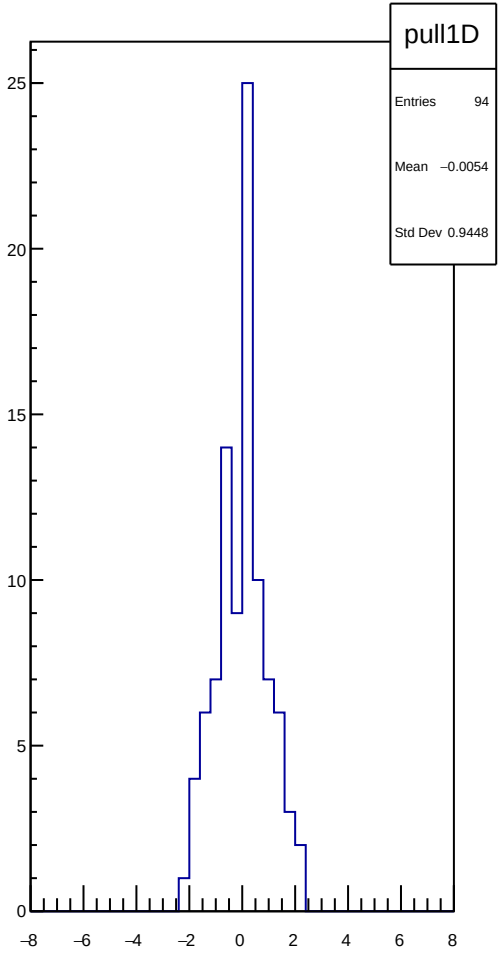

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 1.185e+04 / 93
p0 109.9 ± 0.0823
140
130
120
110
100

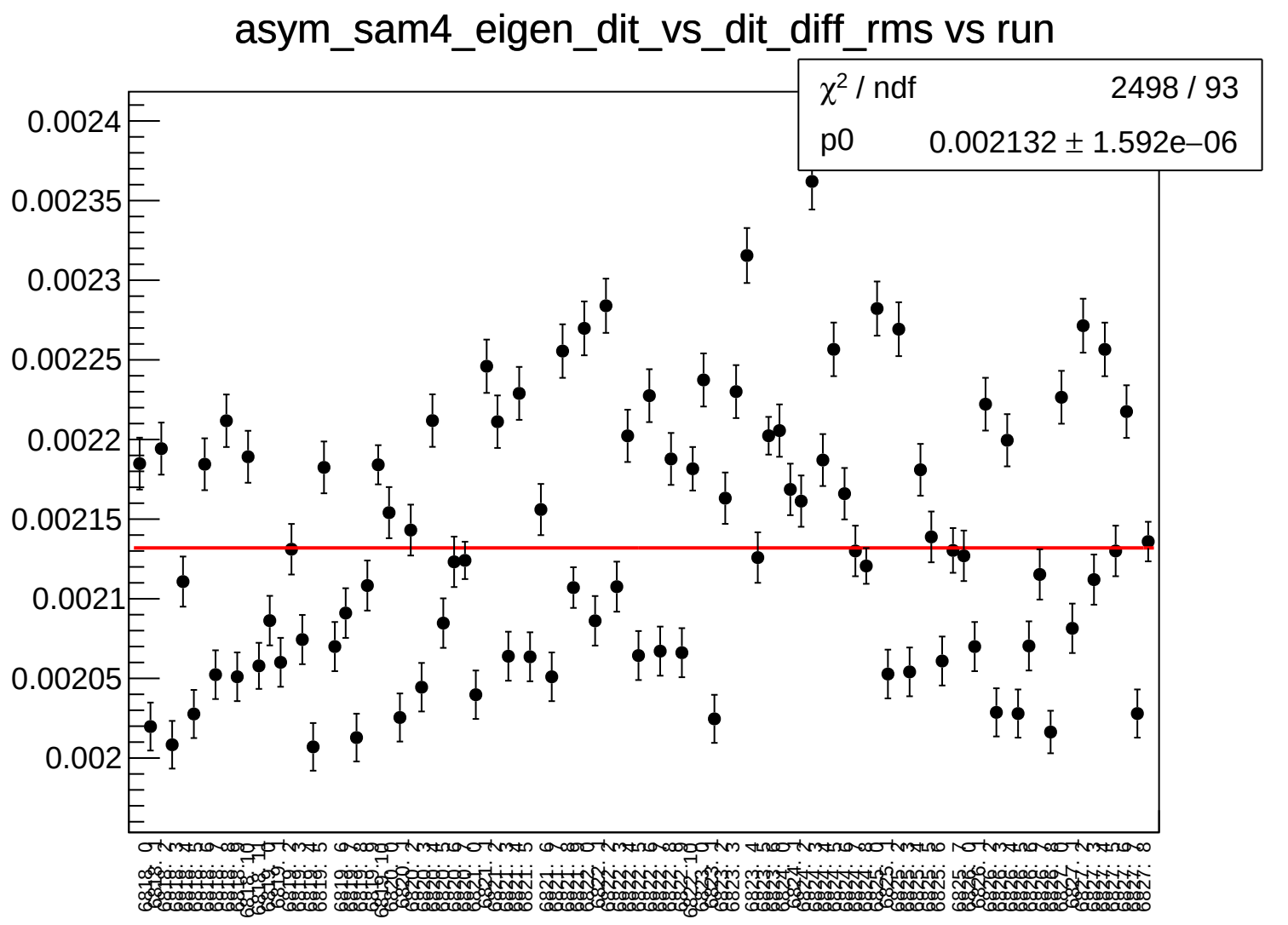

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.18 / 93
p0 0.07404 ± 0.1164
pull
Entries 94
Mean 298.6
Std Dev 0

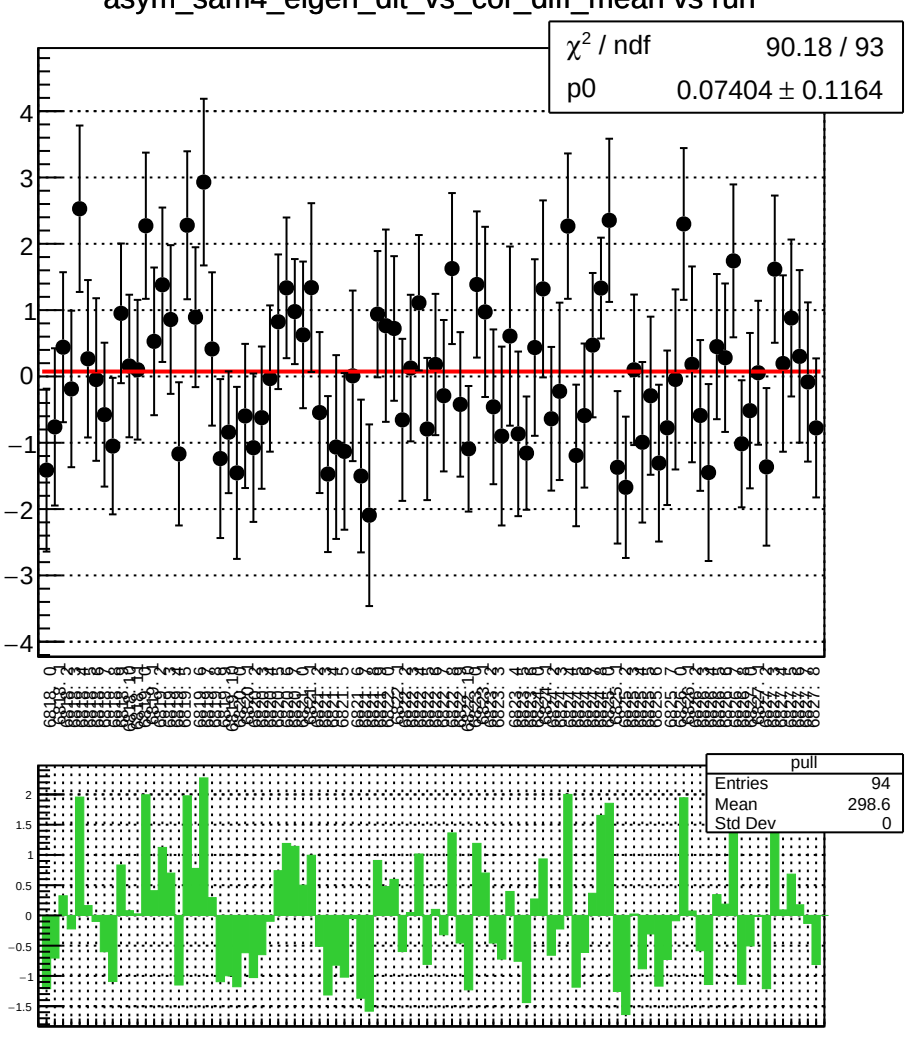

pull1D
Entries 94
Mean −0.007908
Std Dev 0.9794

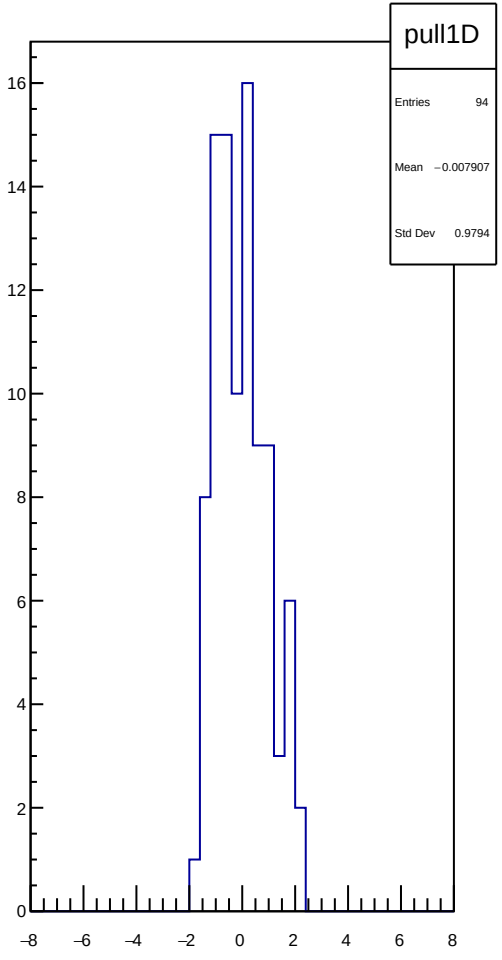

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.185e+04 / 93
p0 109.9 ± 0.0823
140
130
120
110
100

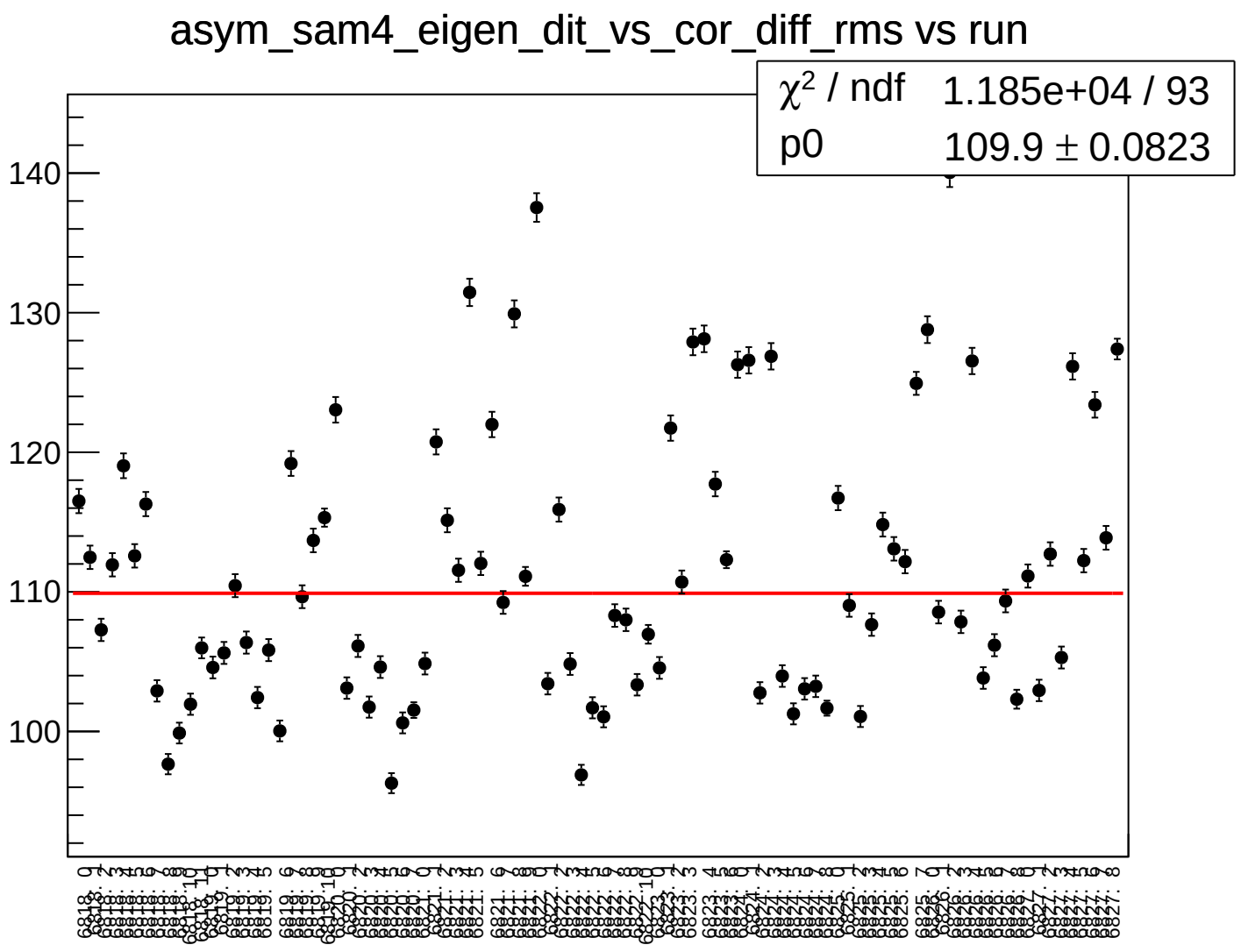

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.92 / 93
p0 −3.584e−07 ± 2.252e−06
pull
Entries 94
Mean −66.28
Std Dev 0

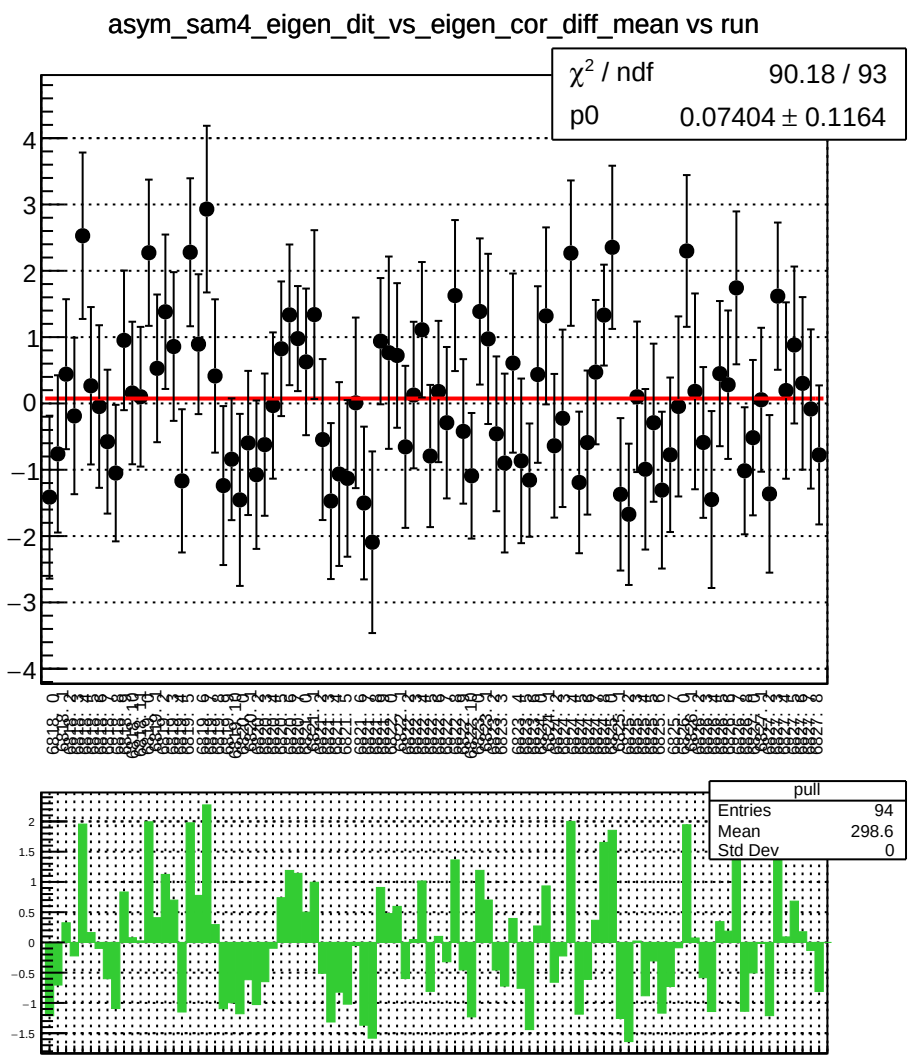

pull1D
Entries 94
Mean −0.0054
Std Dev 0.9448

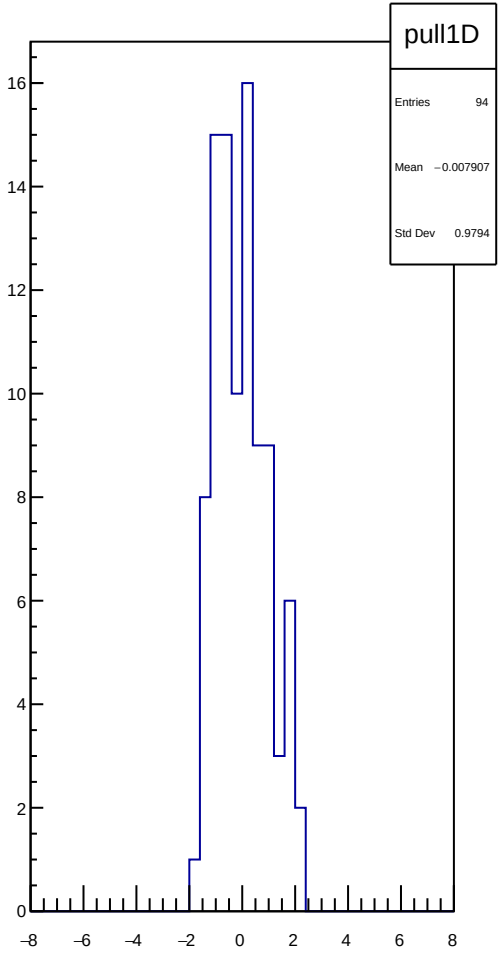

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2498 / 93
p0 0.002132 ± 1.592e−06
0.0024
0.00235
0.0023
0.00225
0.0022
0.00215
0.0021
0.00205
0.002

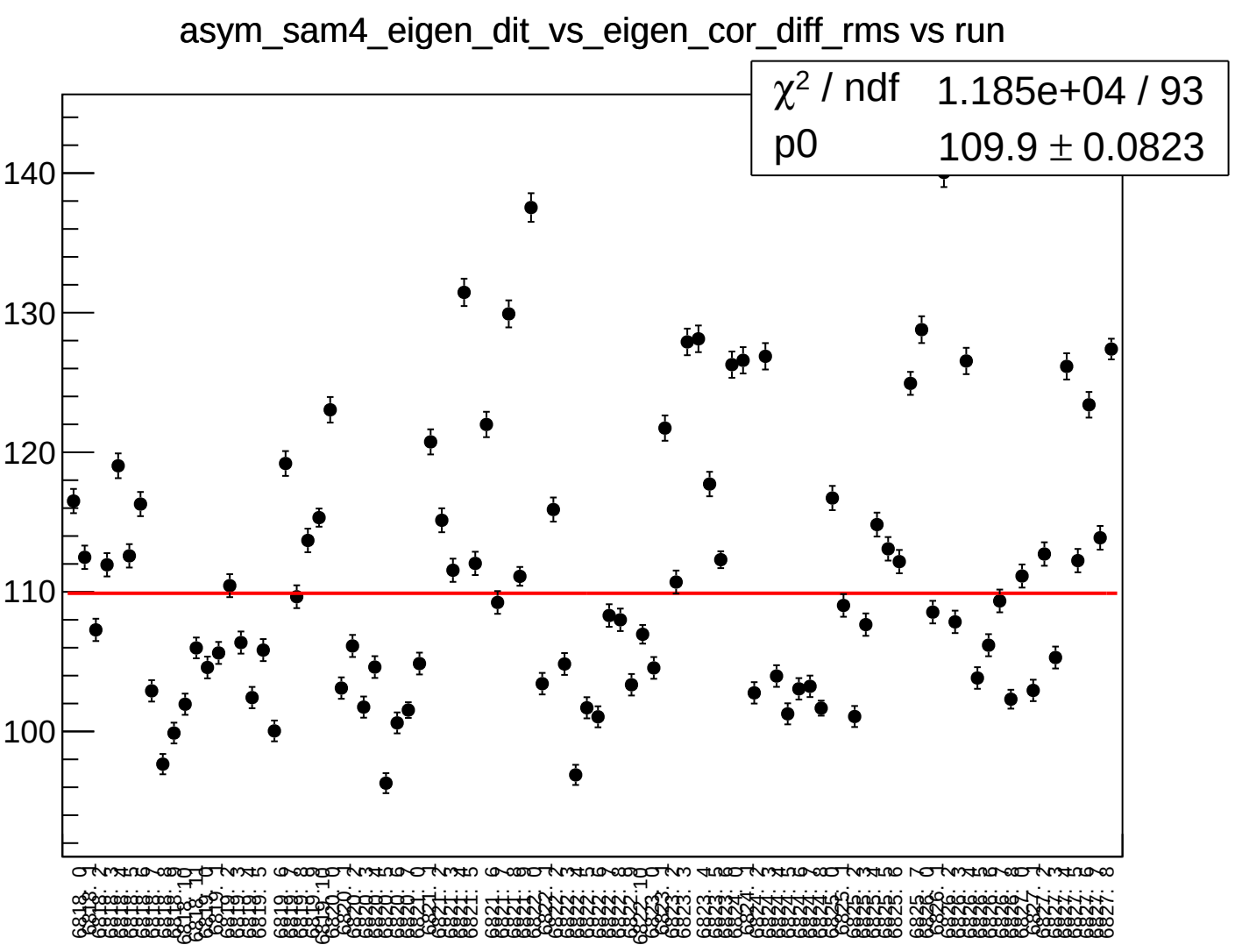

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.18 / 93
p0 0.07404 ± 0.1164
pull
Entries 94
Mean 298.6
Std Dev 0

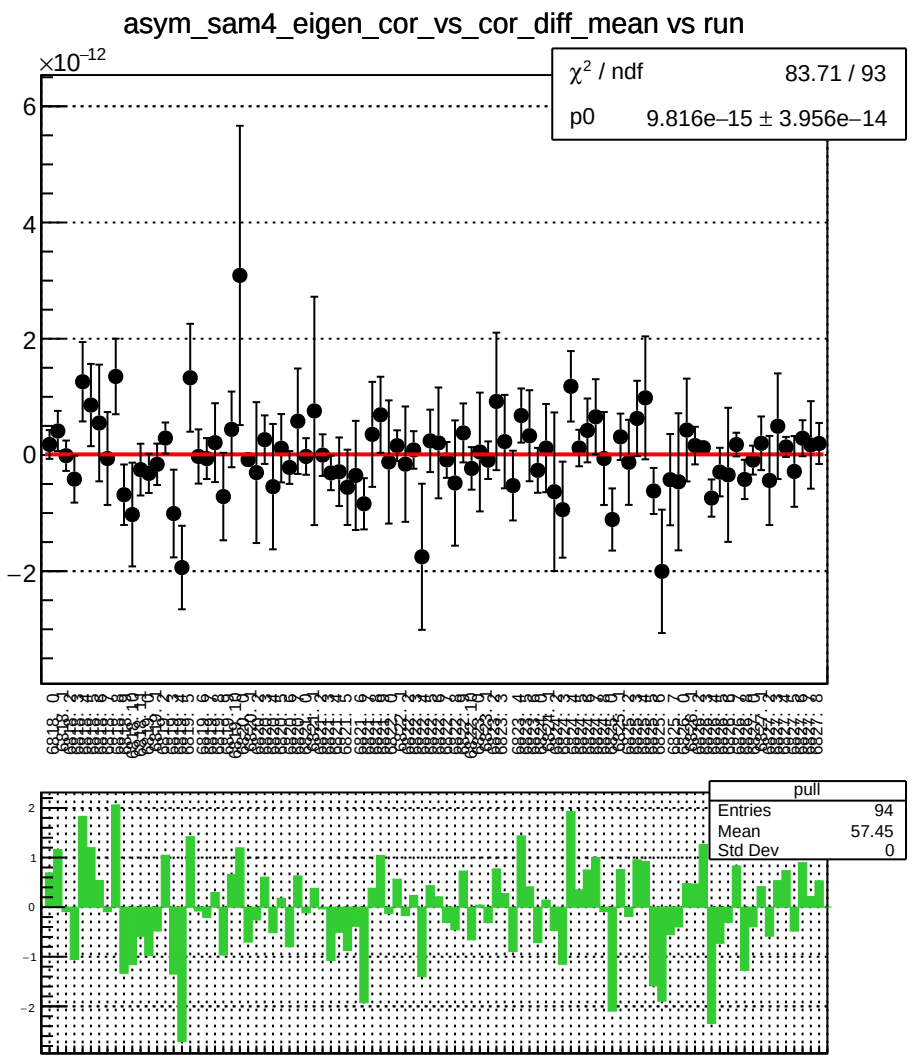

pull1D
Entries 94
Mean −0.007907
Std Dev 0.9794

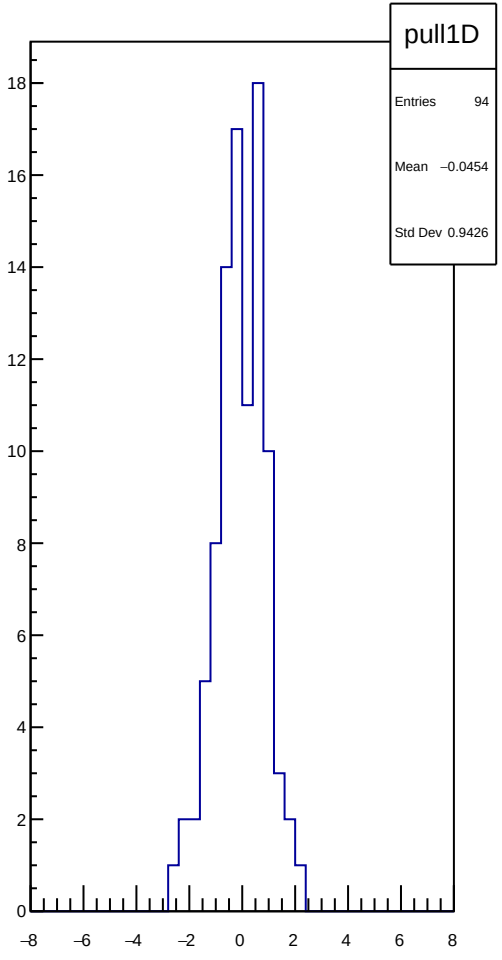

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.185e+04 / 93
p0 109.9 ± 0.0823
140
130
120
110
100

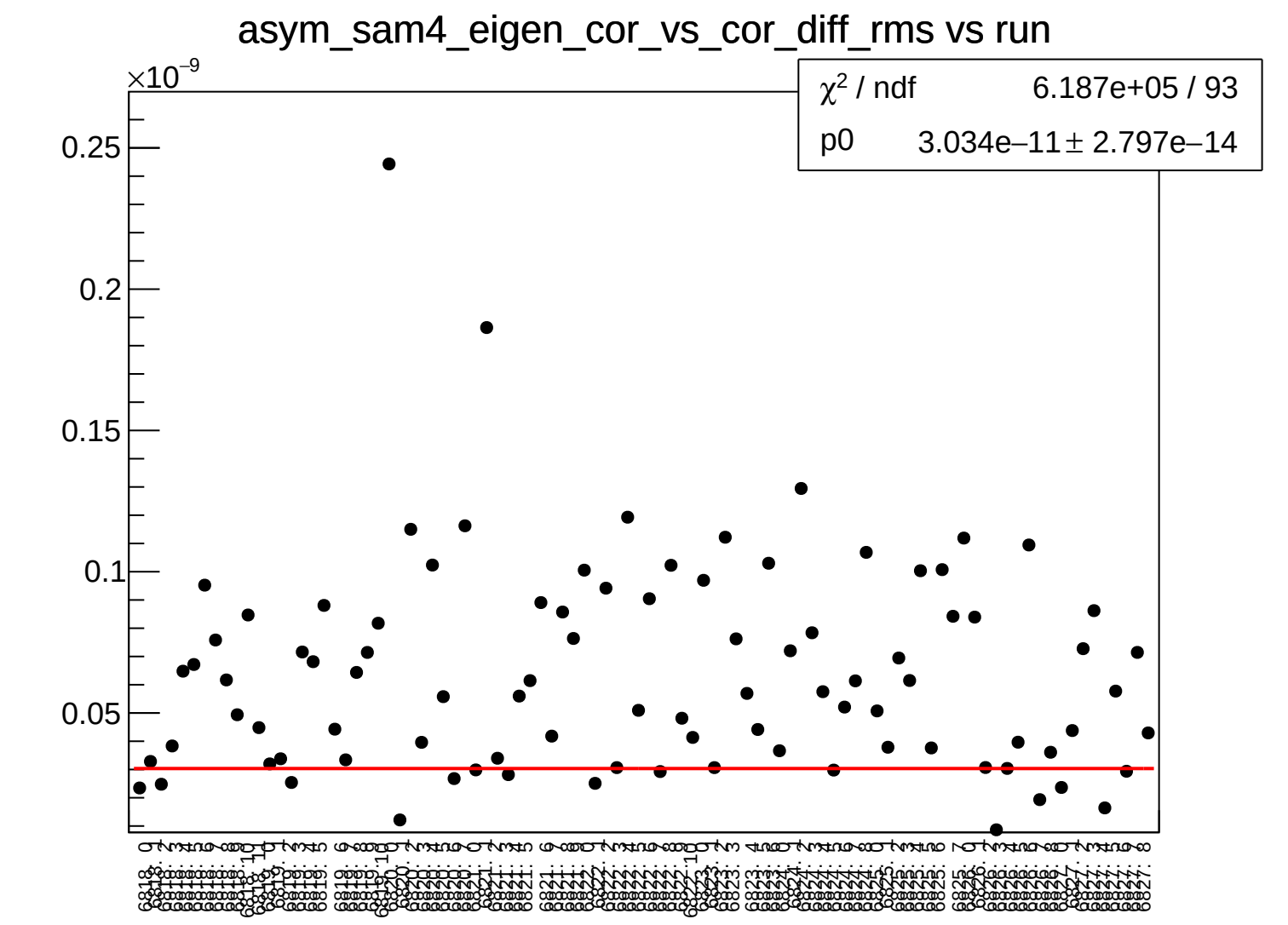

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.18 / 93
p0 0.07404 ± 0.1164
pull
Entries 94
Mean 298.6
Std Dev 0

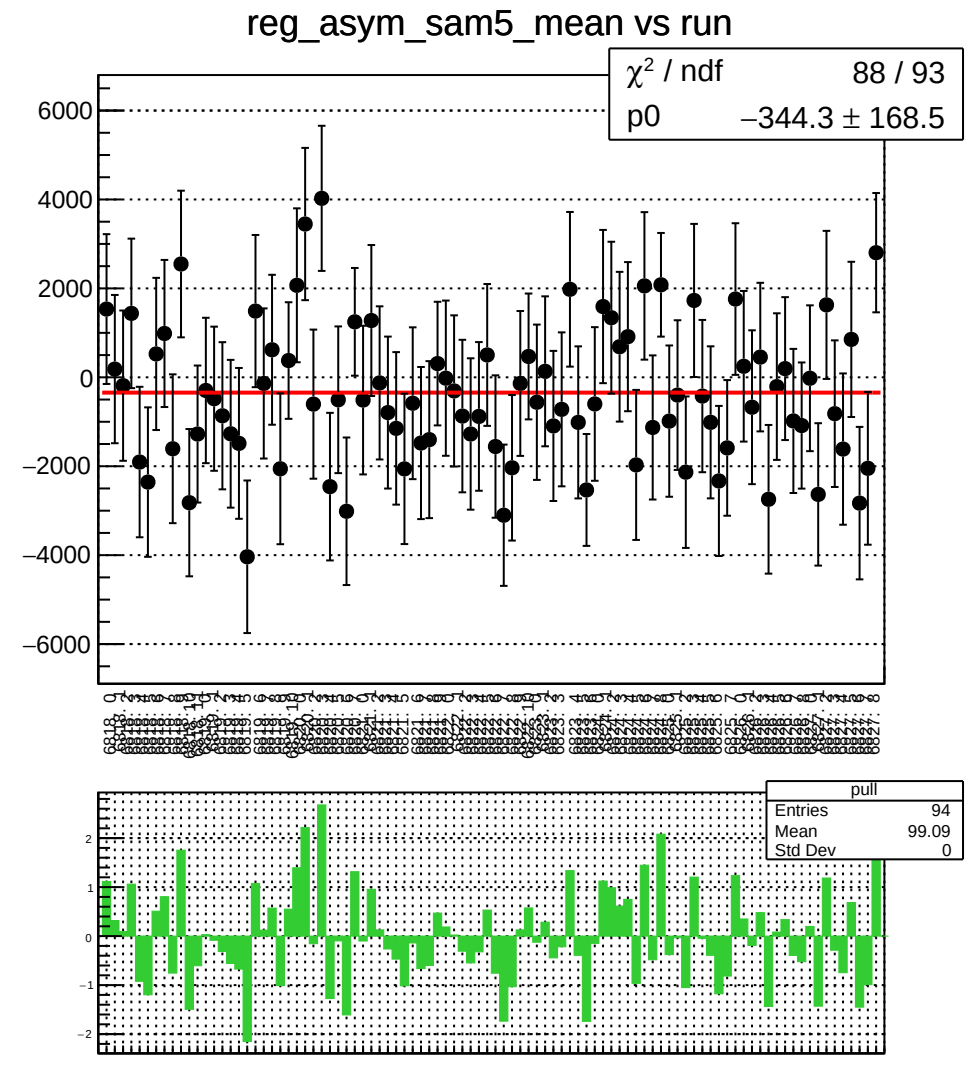

pull1D
Entries 94
Mean −0.007907
Std Dev 0.9794

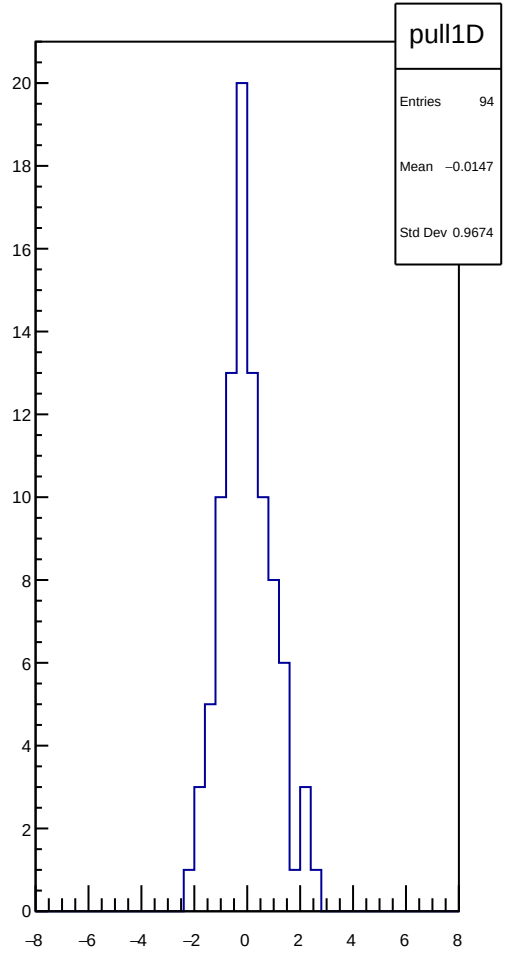

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.185e+04 / 93
p0 109.9 ± 0.0823
140
130
120
110
100

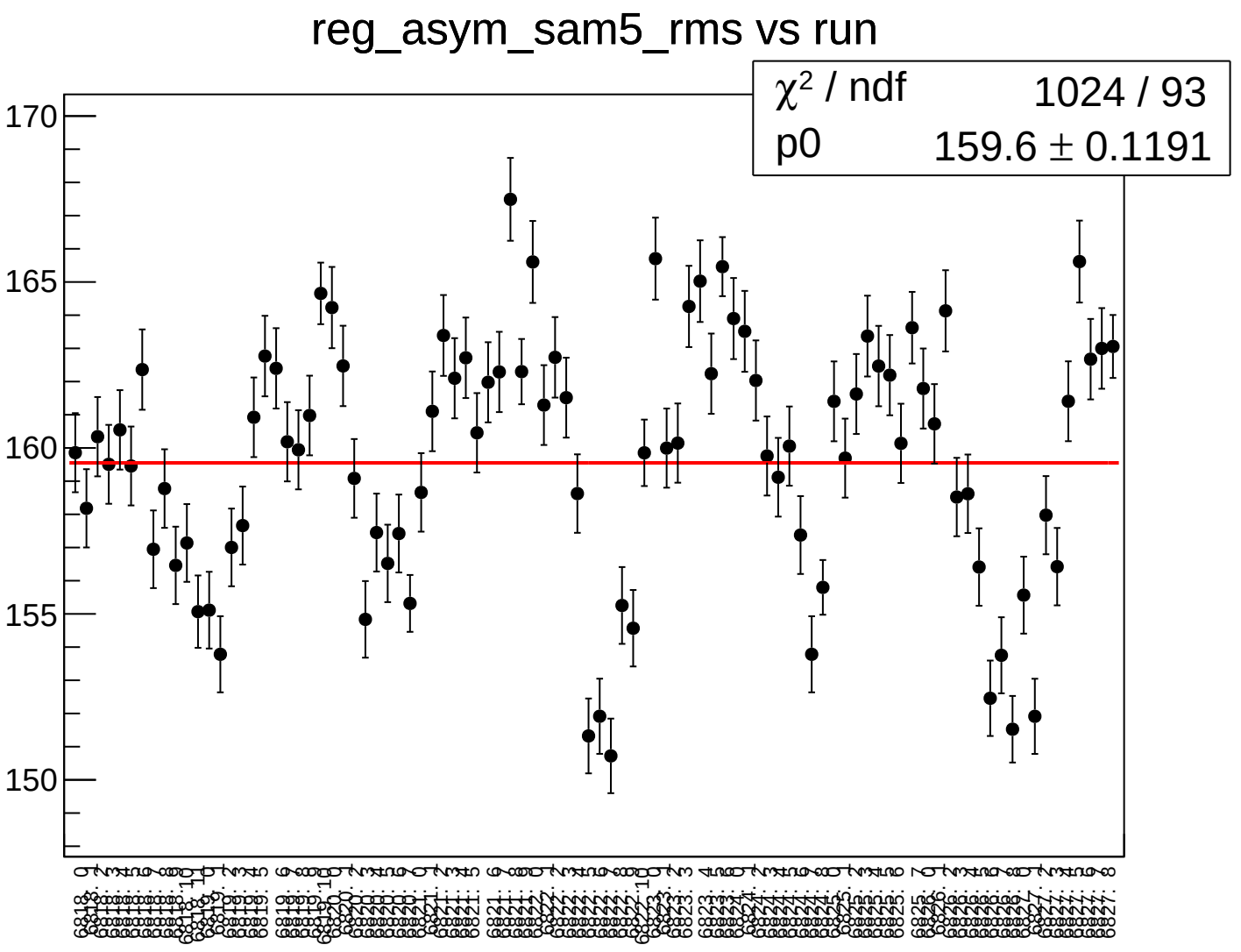

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.71 / 93
p0 9.816e−15 ± 3.956e−14
pull
Entries 94
Mean 57.45
Std Dev 0

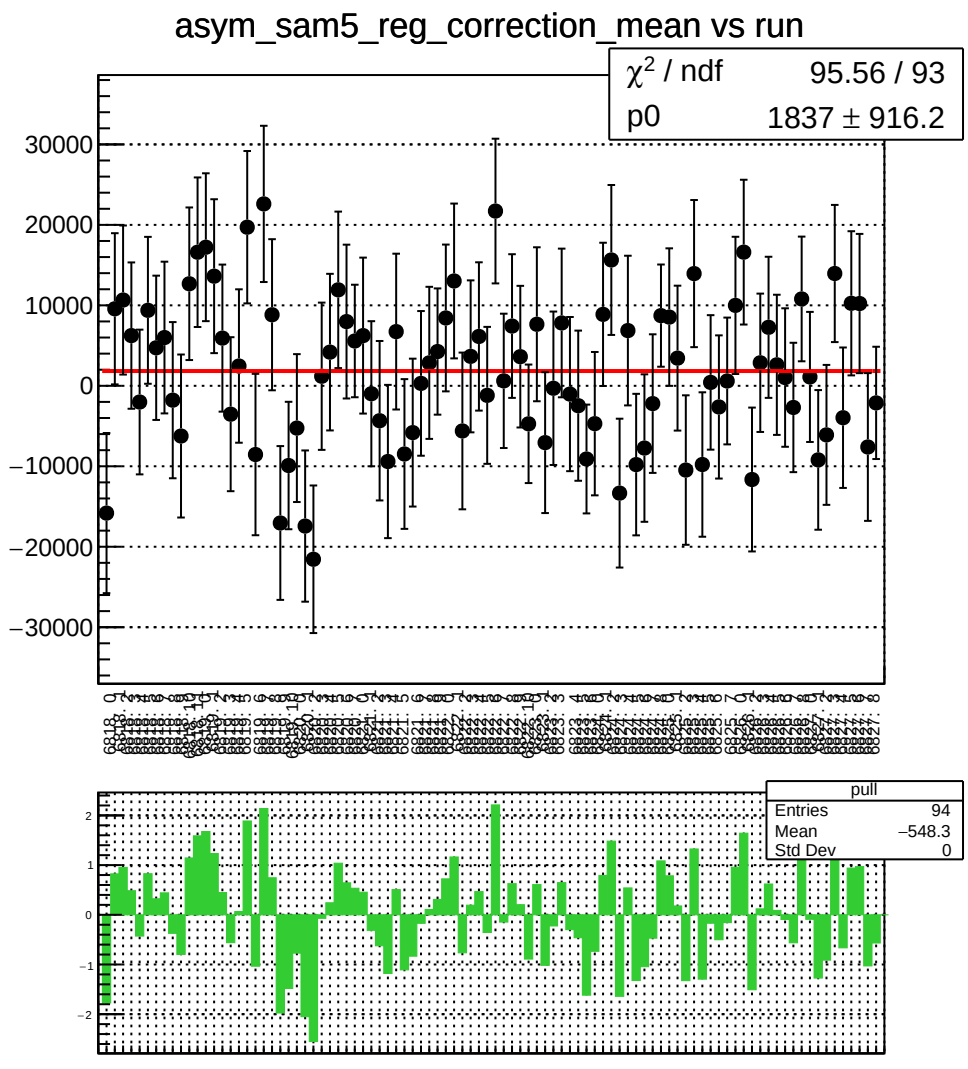

pull1D
Entries 94
Mean −0.0454
Std Dev 0.9426

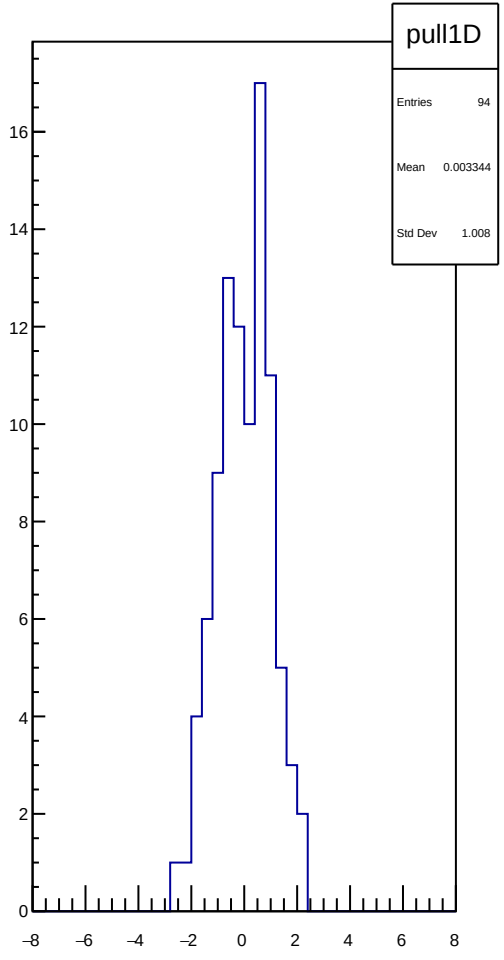

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.187e+05 / 93
p0 3.034e−11 ± 2.797e−14
0.25
0.2
0.15
0.1
0.05

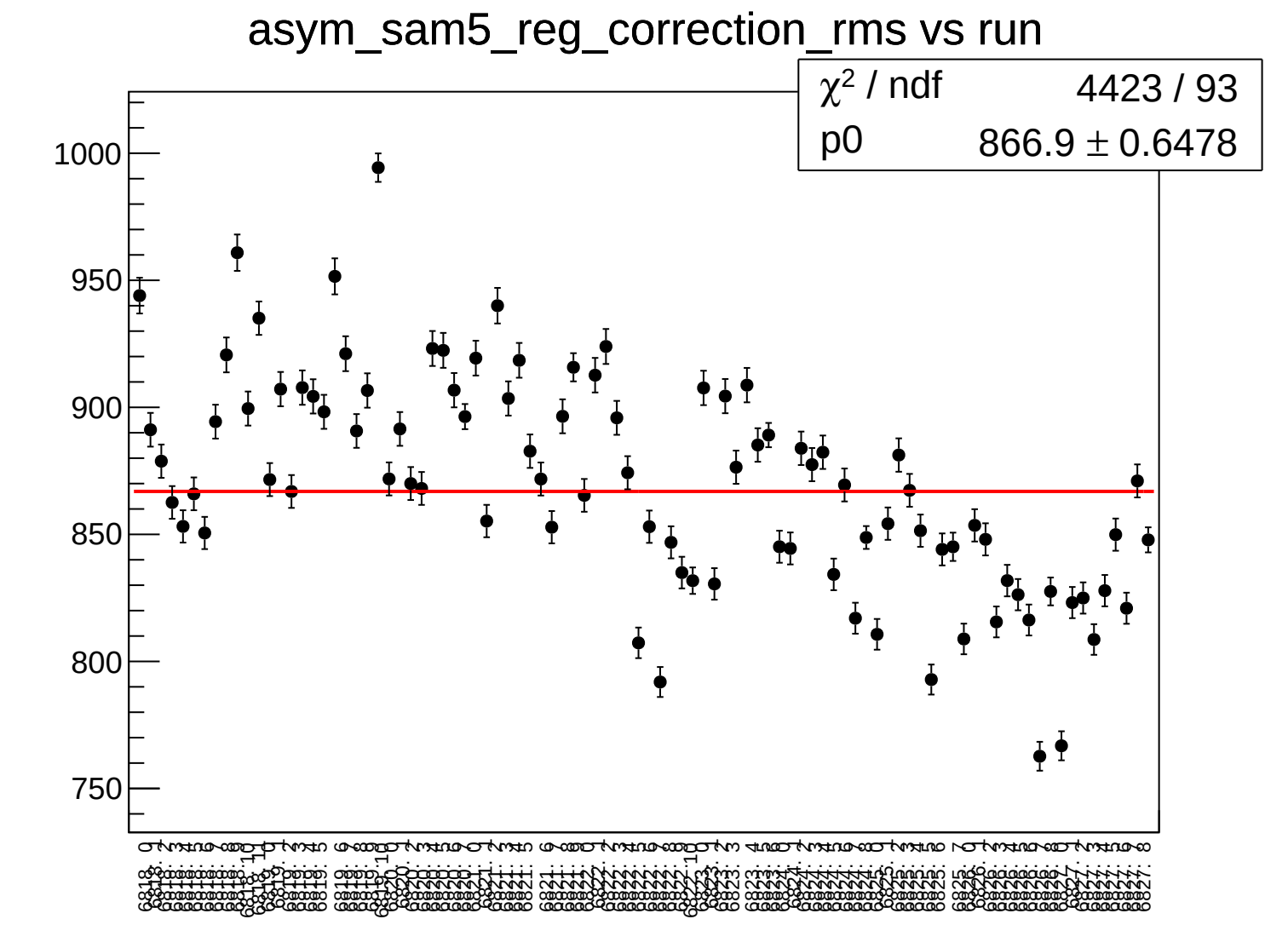

reg_asym_sam5_mean vs run
χ² / ndf 88 / 93
p0 −344.3 ± 168.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 99.09
Std Dev 0
2
1
0
−1
−2

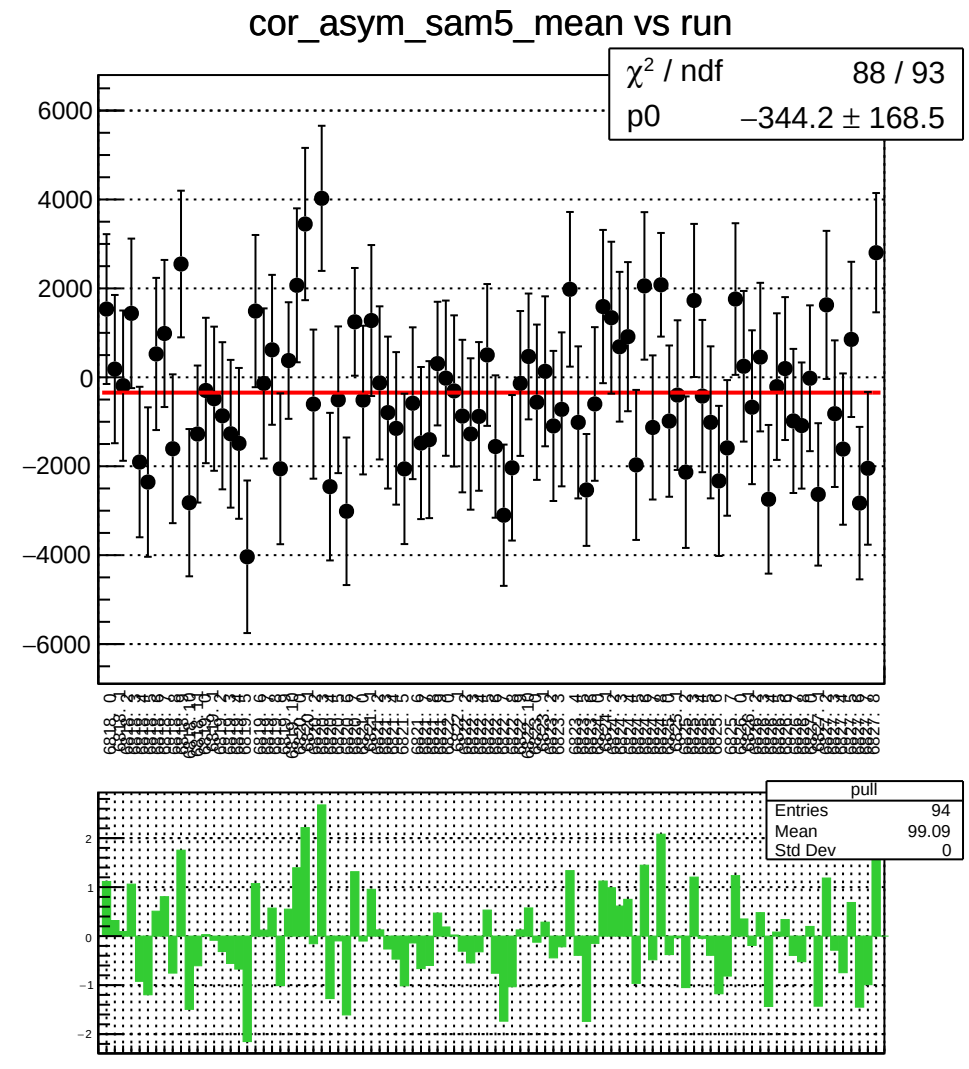

pull1D
Entries 94
Mean −0.0147
Std Dev 0.9674
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

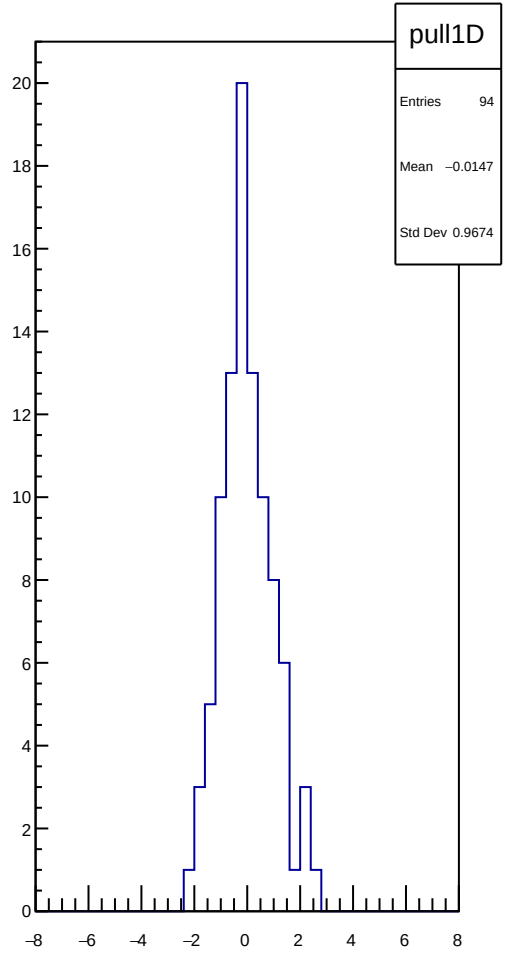

reg_asym_sam5_rms vs run
χ² / ndf 1024 / 93
p0 159.6 ± 0.1191
170
165
160
155
150

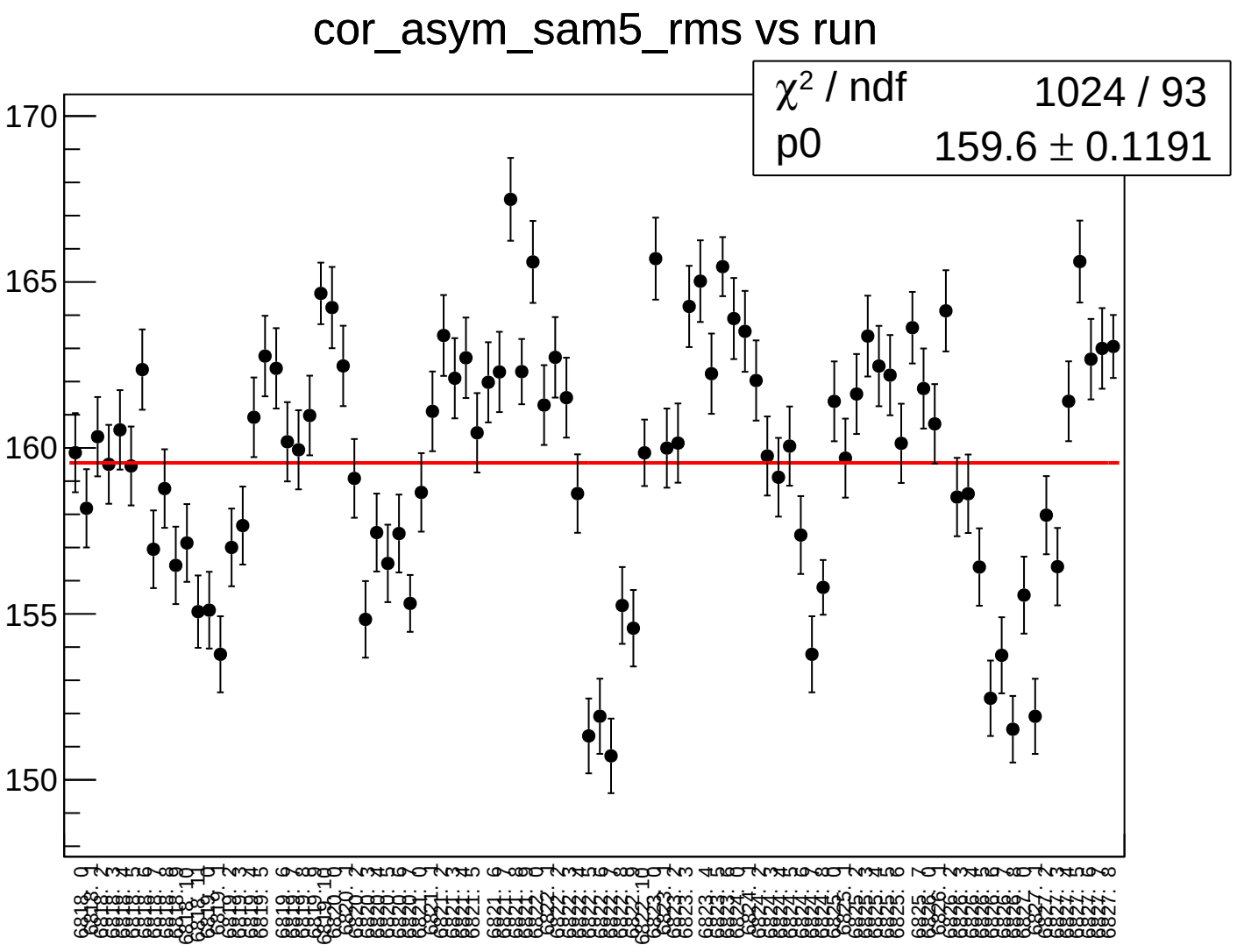

asym_sam5_reg_correction_mean vs run
χ² / ndf 95.56 / 93
p0 1837 ± 916.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −548.3
Std Dev 0
2
1
0
−1
−2

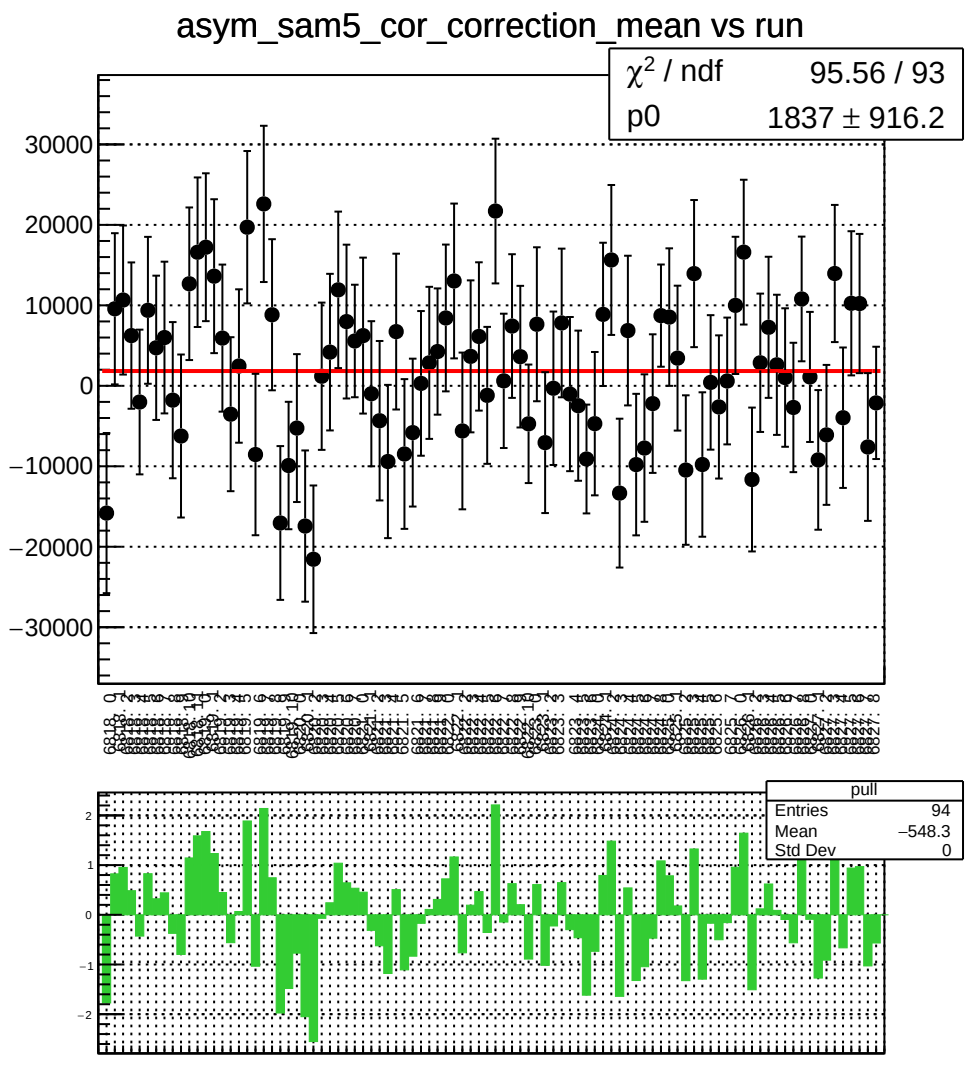

pull1D
Entries 94
Mean 0.003344
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

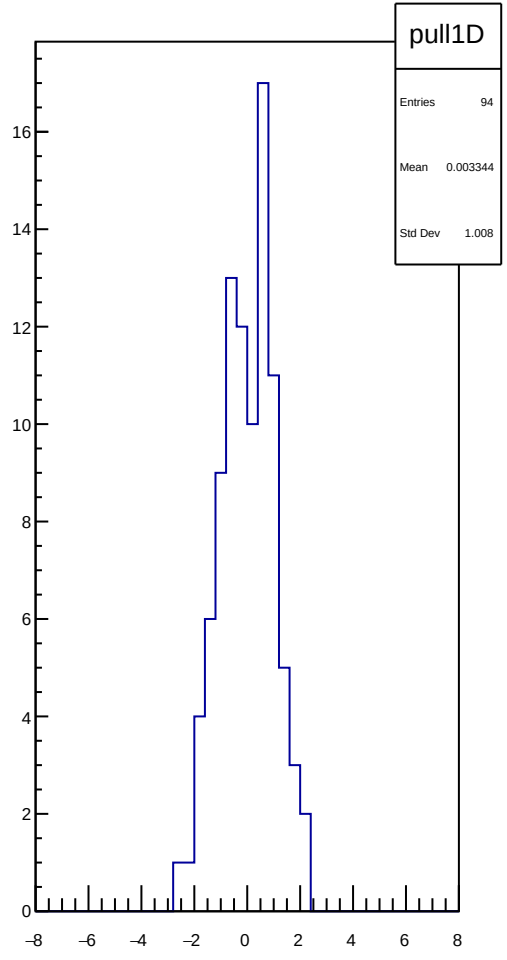

asym_sam5_reg_correction_rms vs run
χ² / ndf 4423 / 93
p0 866.9 ± 0.6478
1000
950
900
850
800
750


cor_asym_sam5_mean vs run
χ² / ndf 88 / 93
p0 −344.2 ± 168.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 99.09
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean −0.0147
Std Dev 0.9674
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam5_rms vs run
χ² / ndf 1024 / 93
p0 159.6 ± 0.1191
170
165
160
155
150


asym_sam5_cor_correction_mean vs run
χ² / ndf 95.56 / 93
p0 1837 ± 916.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −548.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.003344
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
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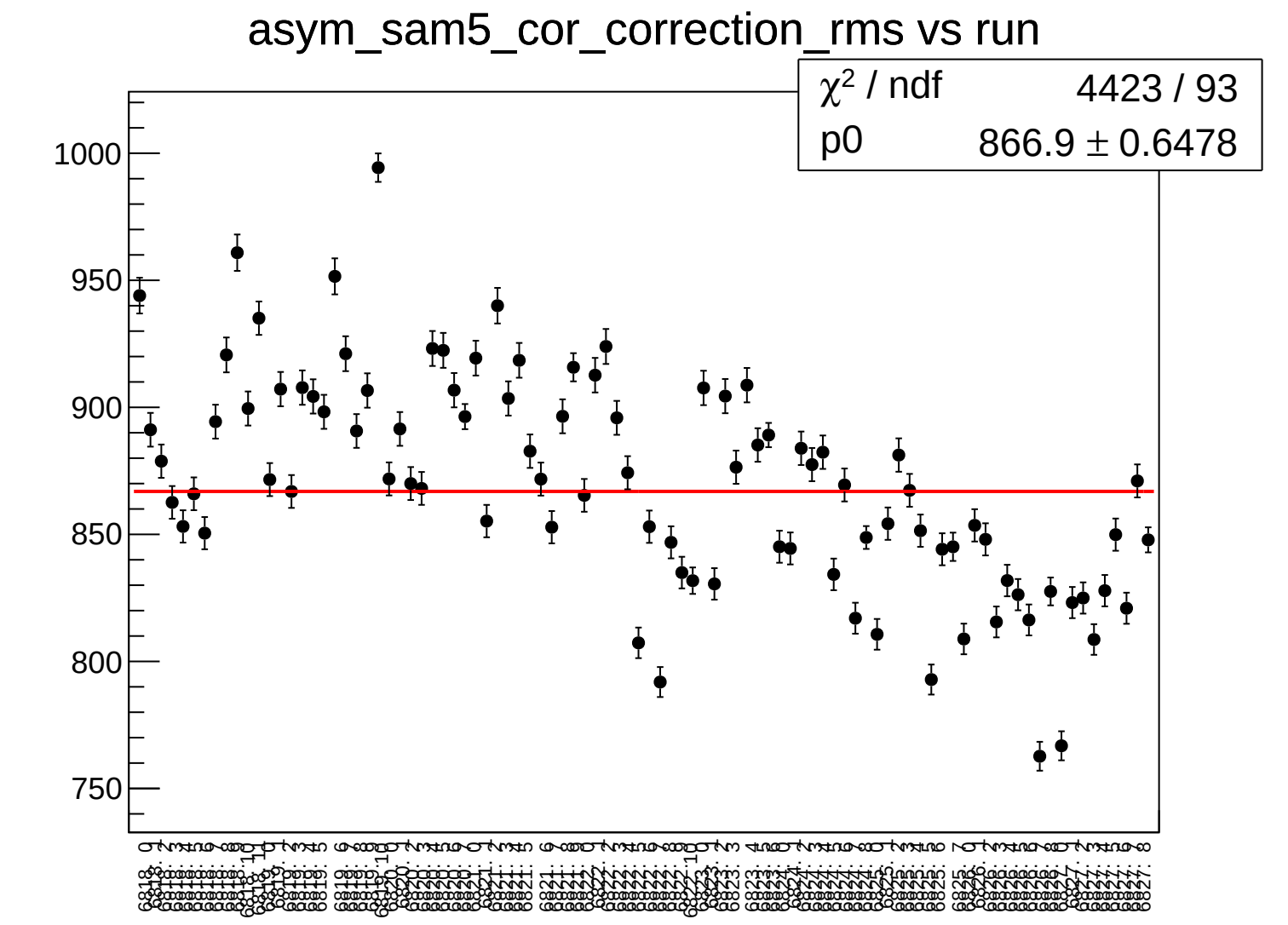
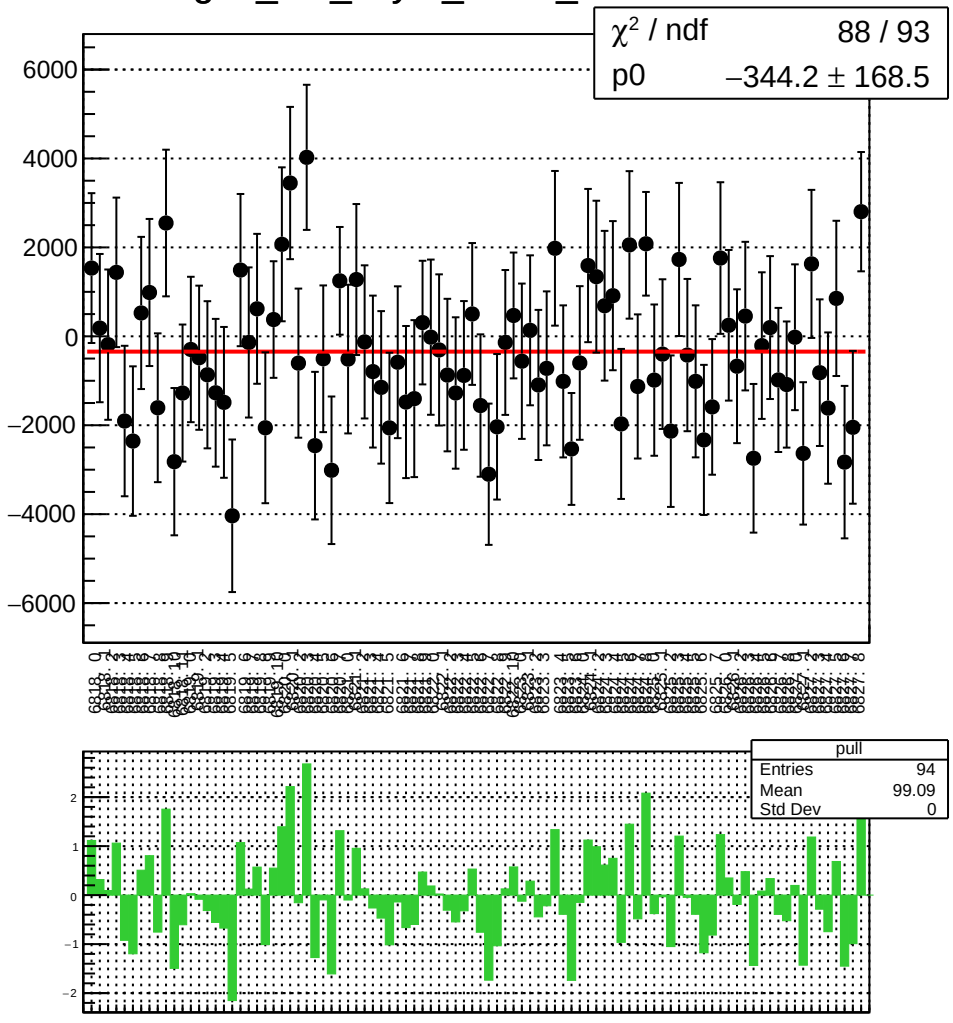
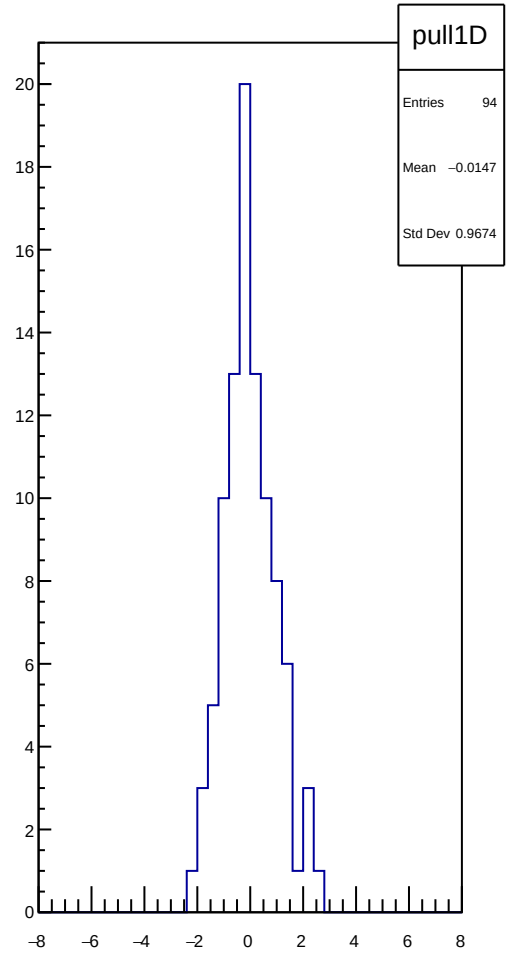
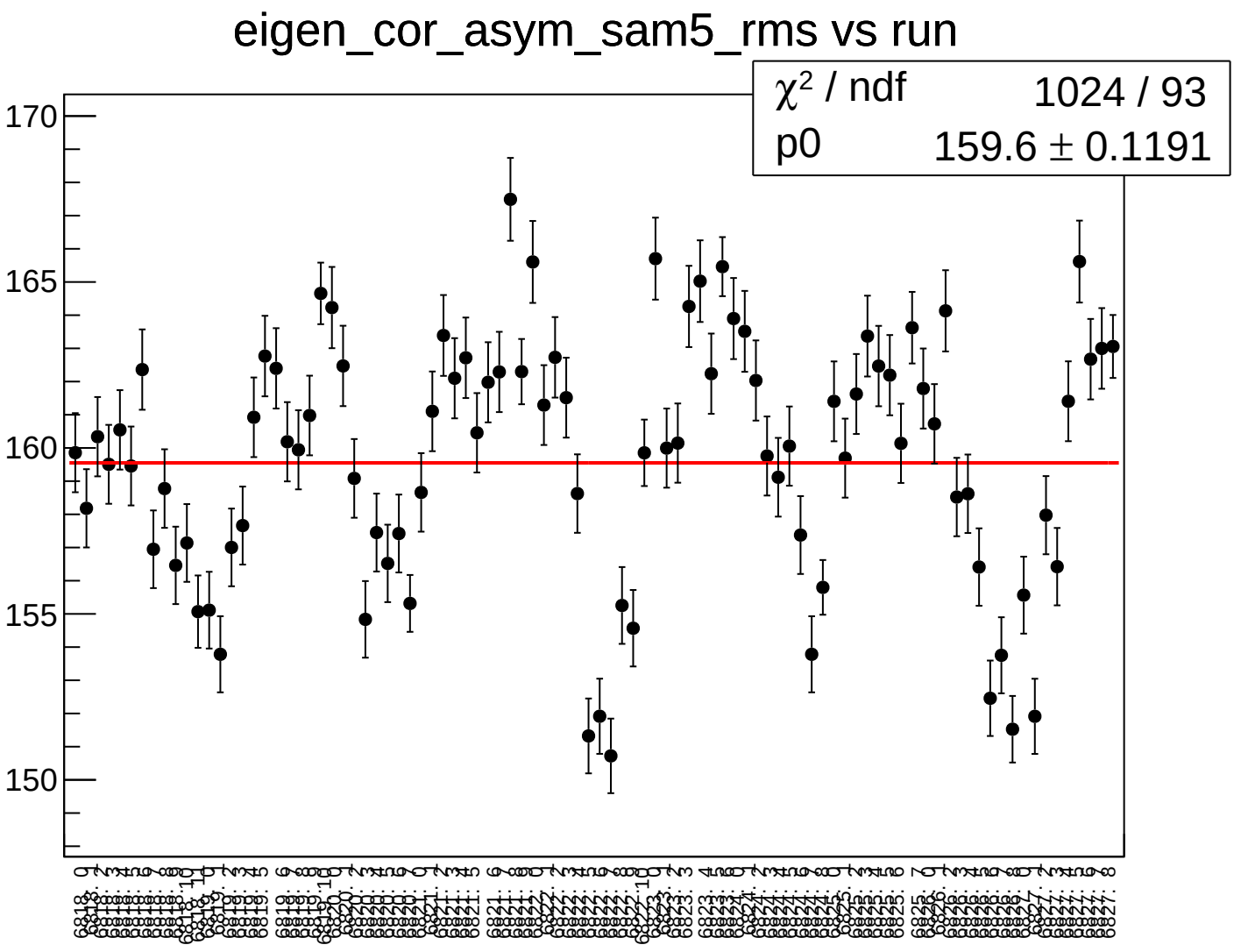
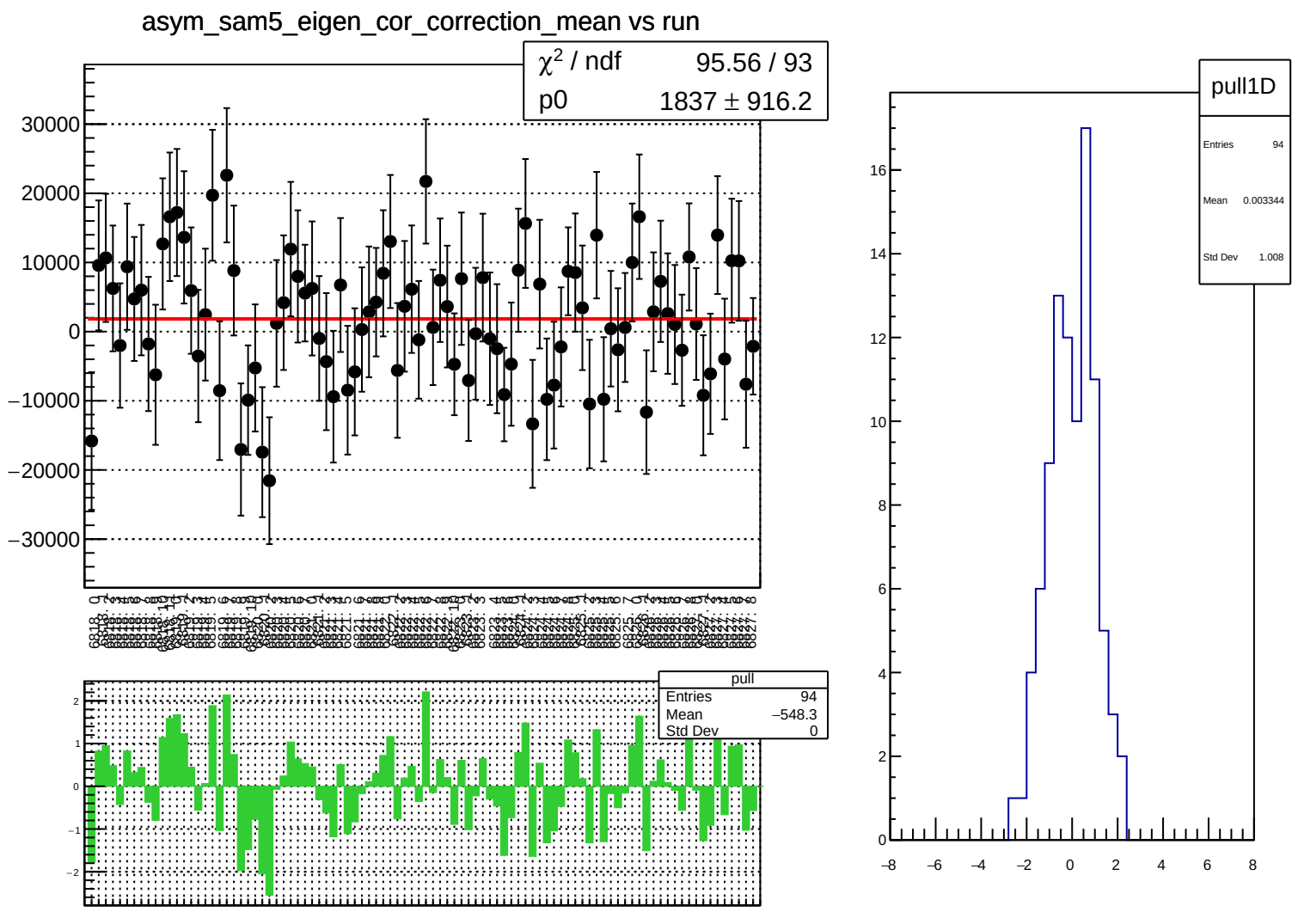
2
4
6
8

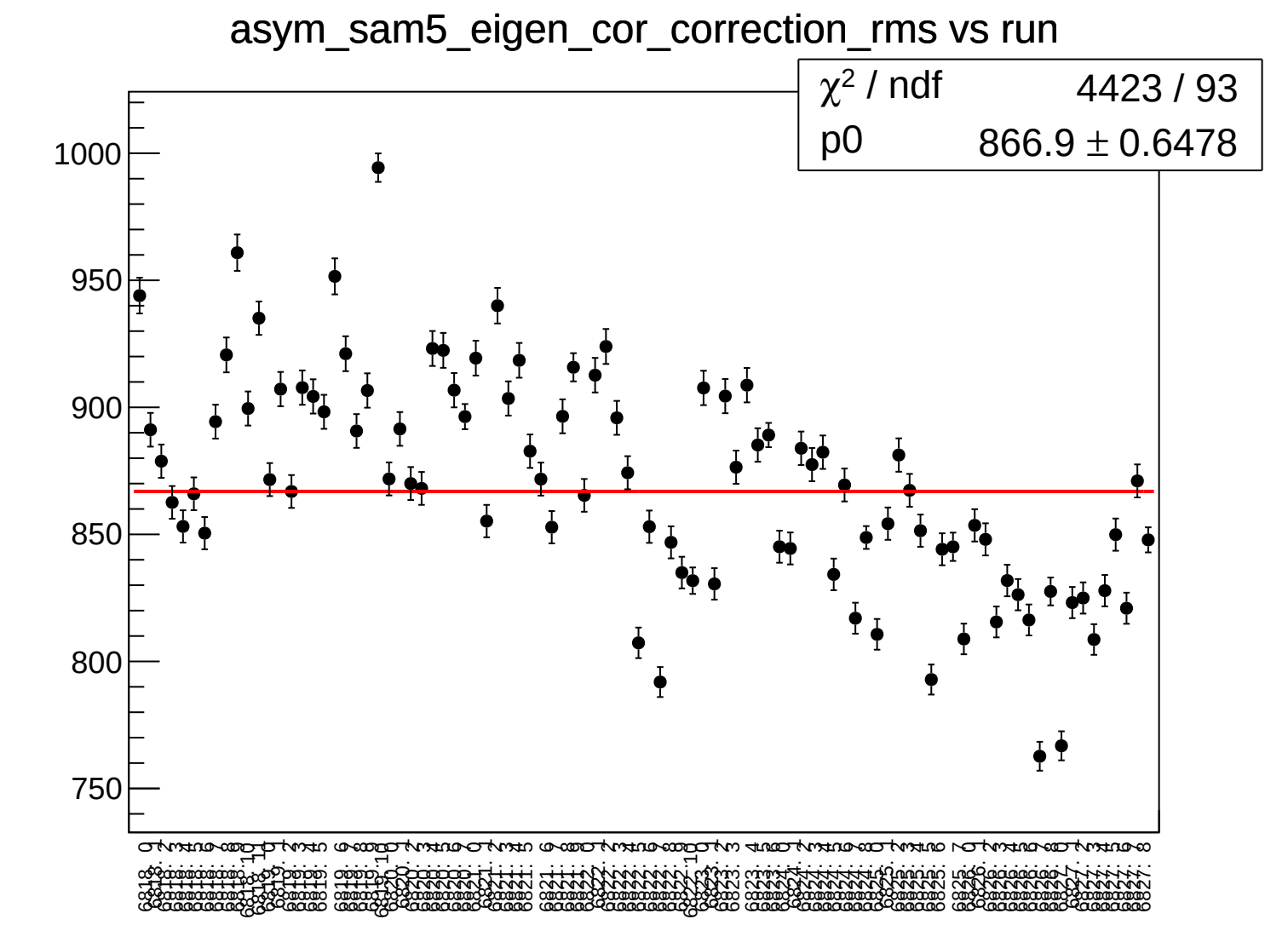

asym_sam5_cor_correction_rms vs run
χ² / ndf 4423 / 93
p0 866.9 ± 0.6478
1000
950
900
850
800
750

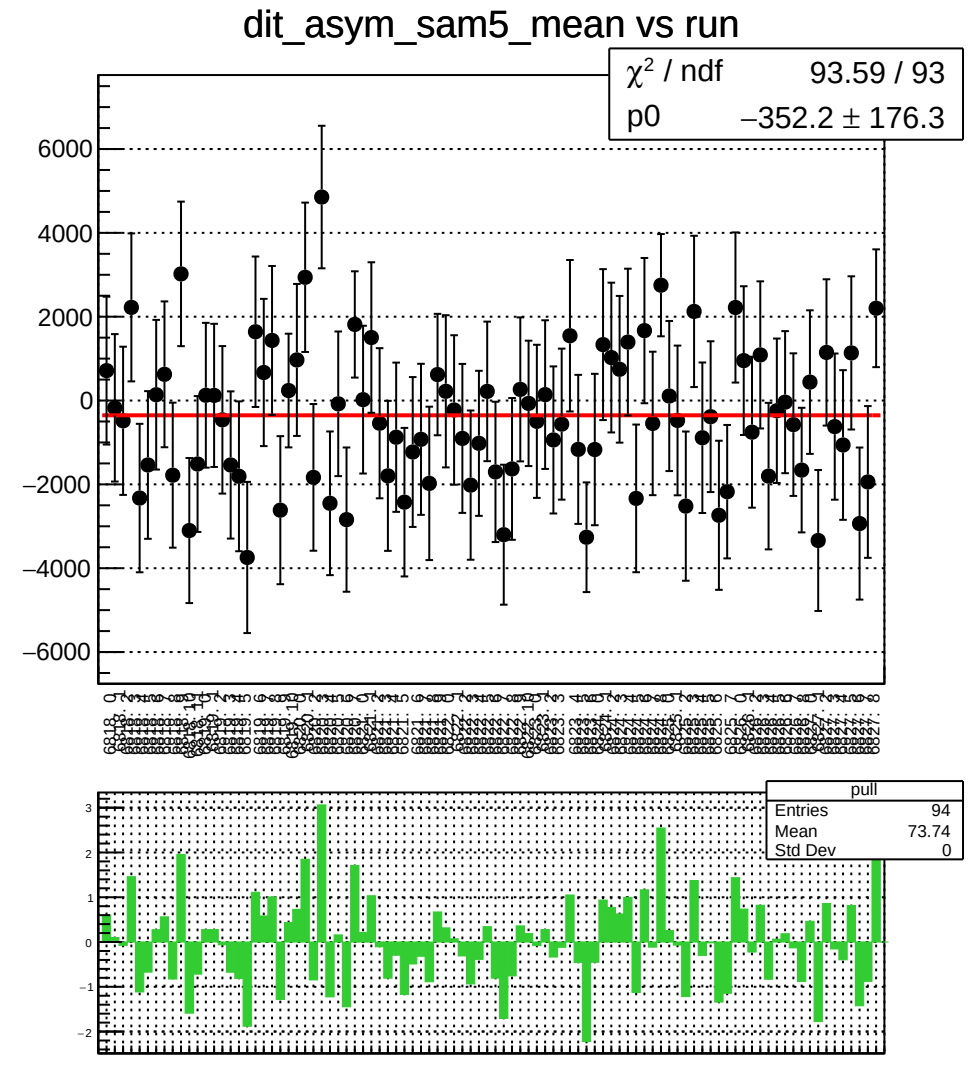

eigen_cor_asym_sam5_mean vs run
χ² / ndf 88 / 93
p0 −344.2 ± 168.5
pull
Entries 94
Mean 99.09
Std Dev 0

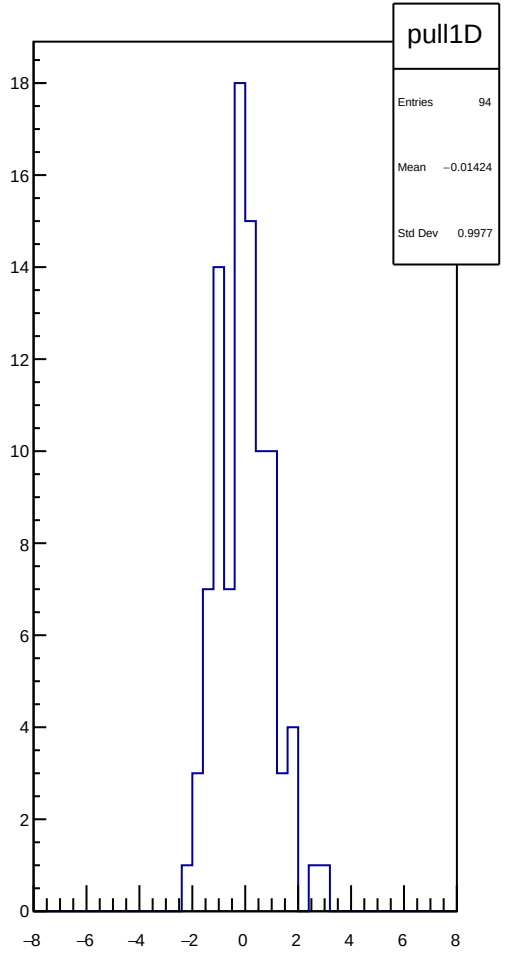

pull1D
Entries 94
Mean −0.0147
Std Dev 0.9674

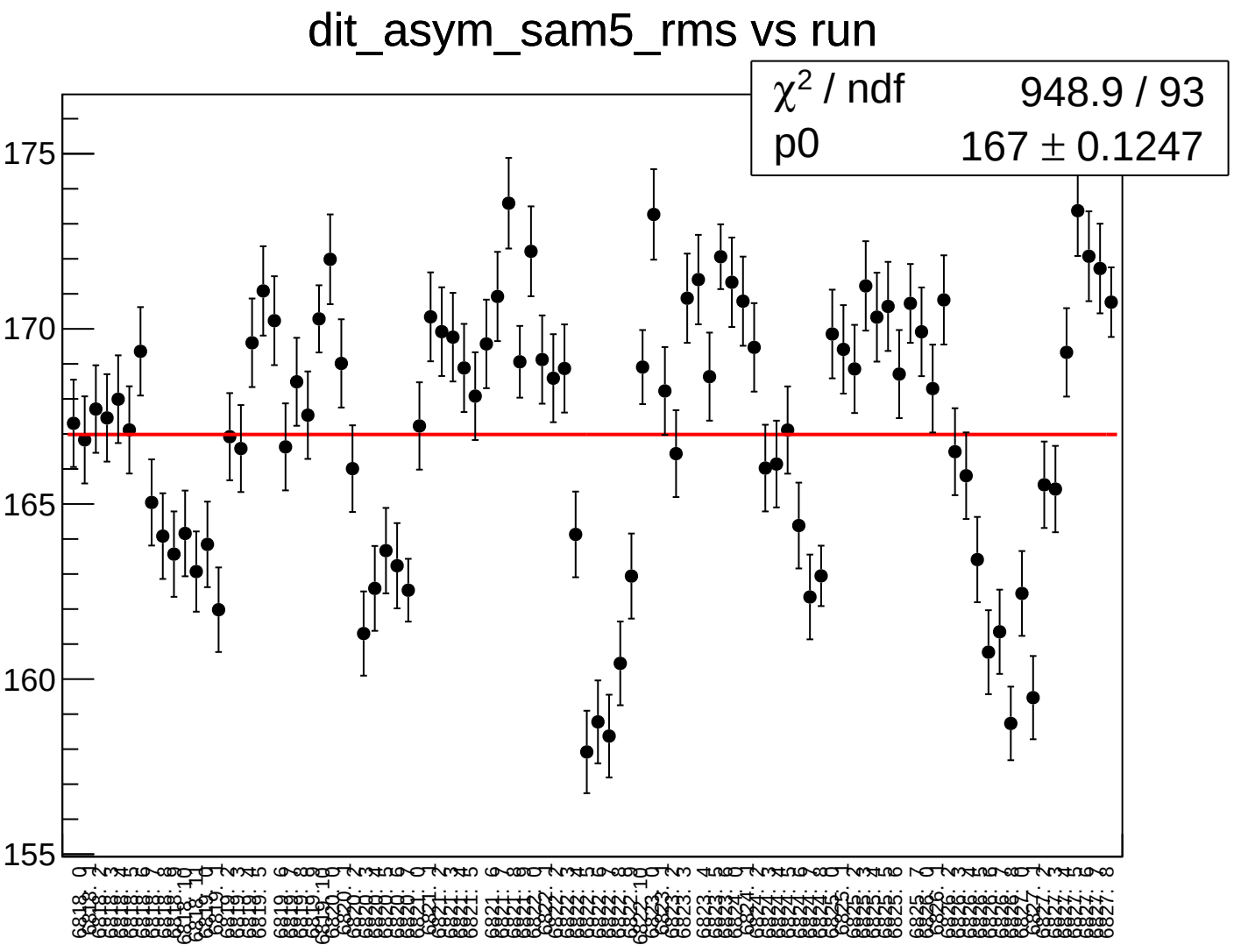

eigen_cor_asym_sam5_rms vs run
χ² / ndf 1024 / 93
p0 159.6 ± 0.1191
170
165
160
155
150

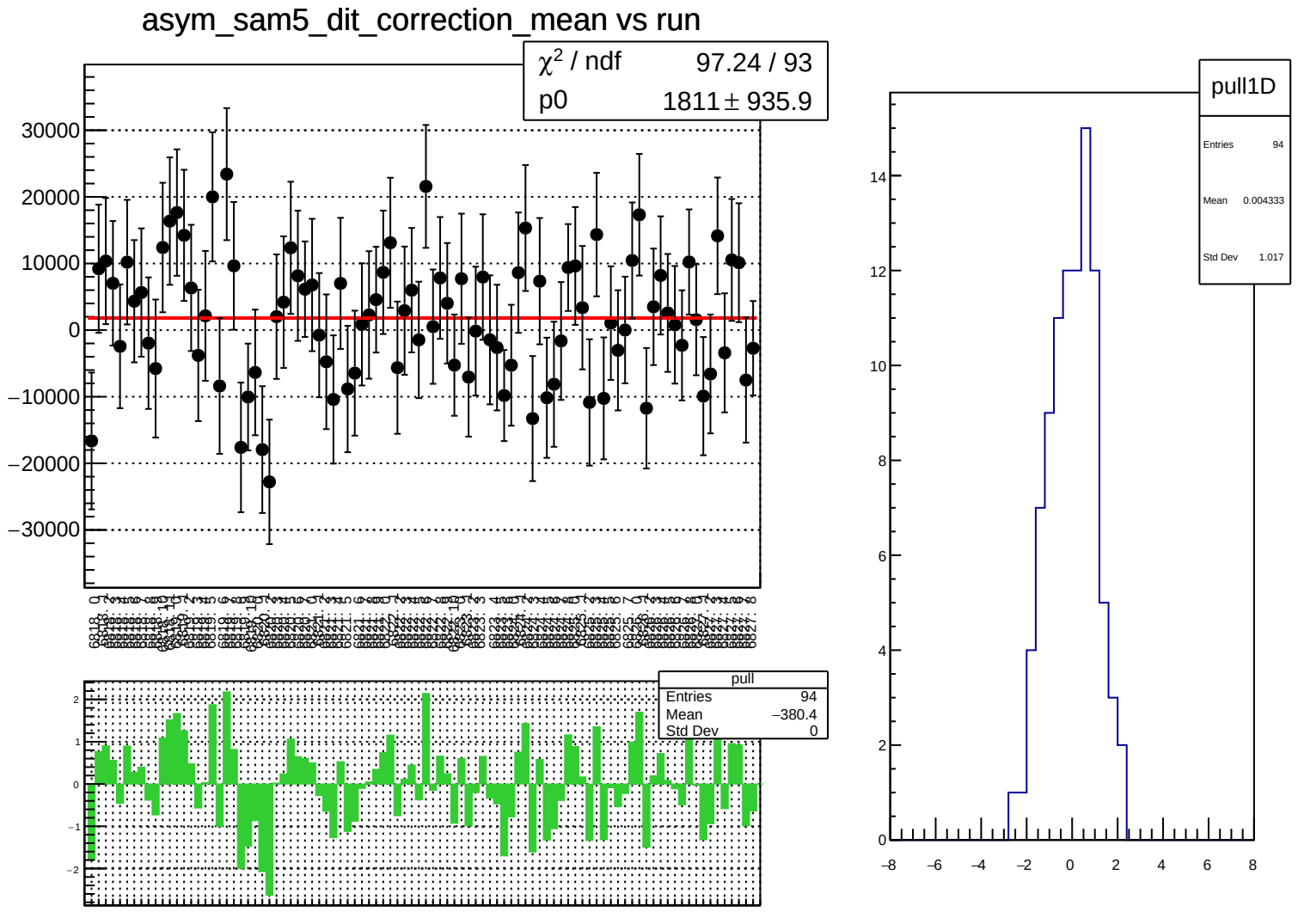

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 95.56 / 93
p0 1837 ± 916.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −548.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003344
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

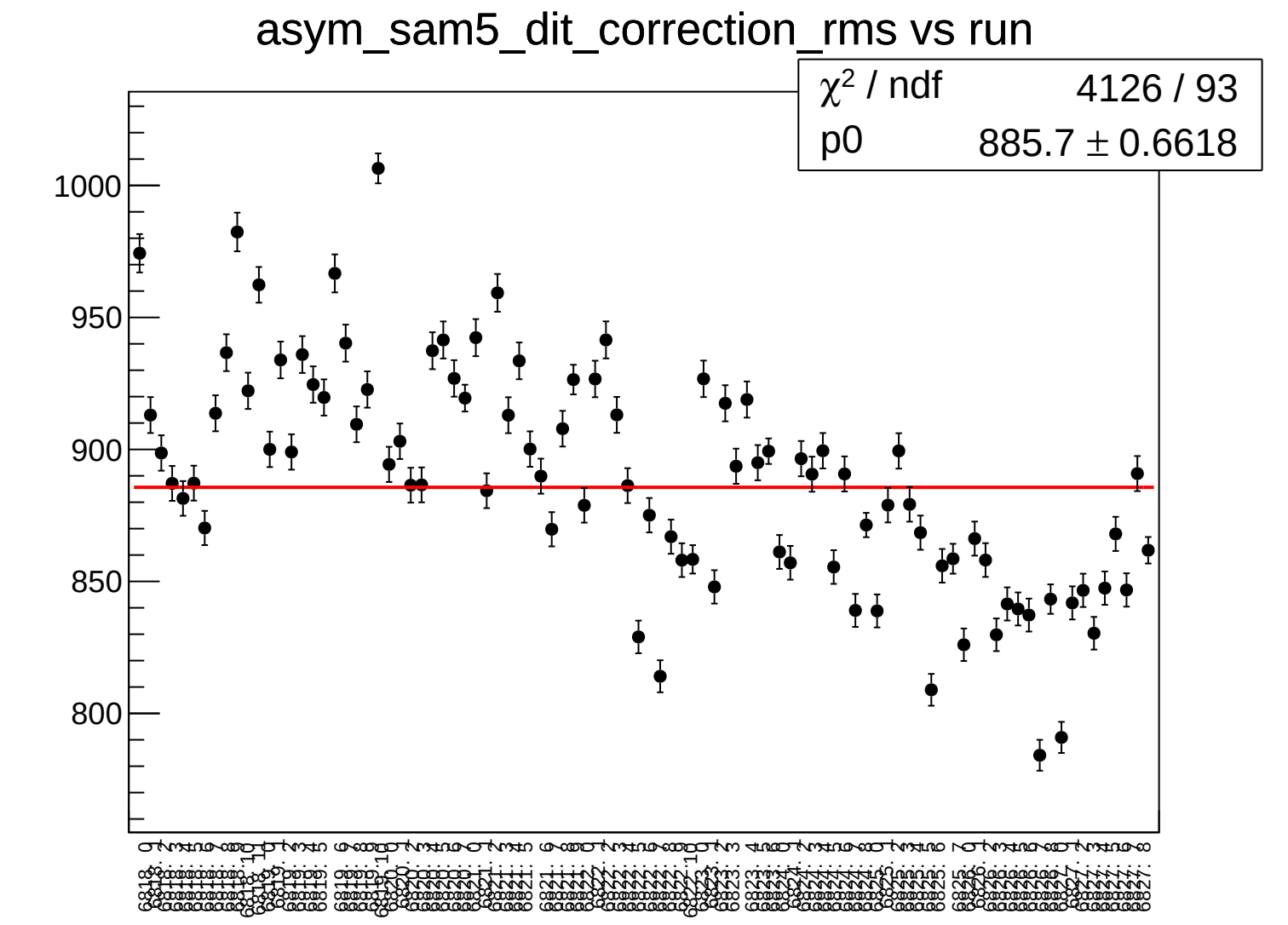

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4423 / 93
p0 866.9 ± 0.6478
1000
950
900
850
800
750

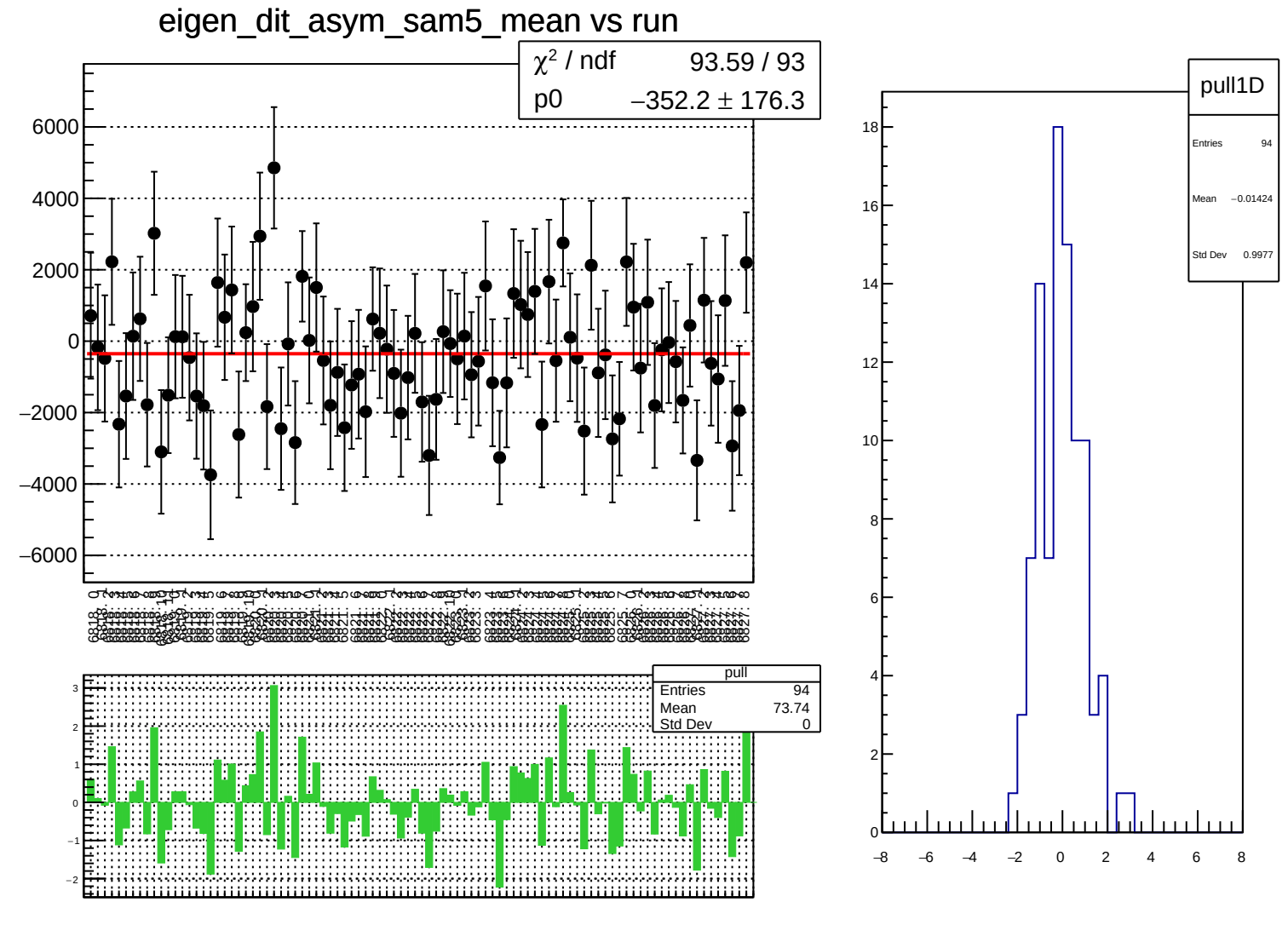

dit_asym_sam5_mean vs run
χ² / ndf 93.59 / 93
p0 −352.2 ± 176.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 73.74
Std Dev 0
3
2
1
0
−1
−2

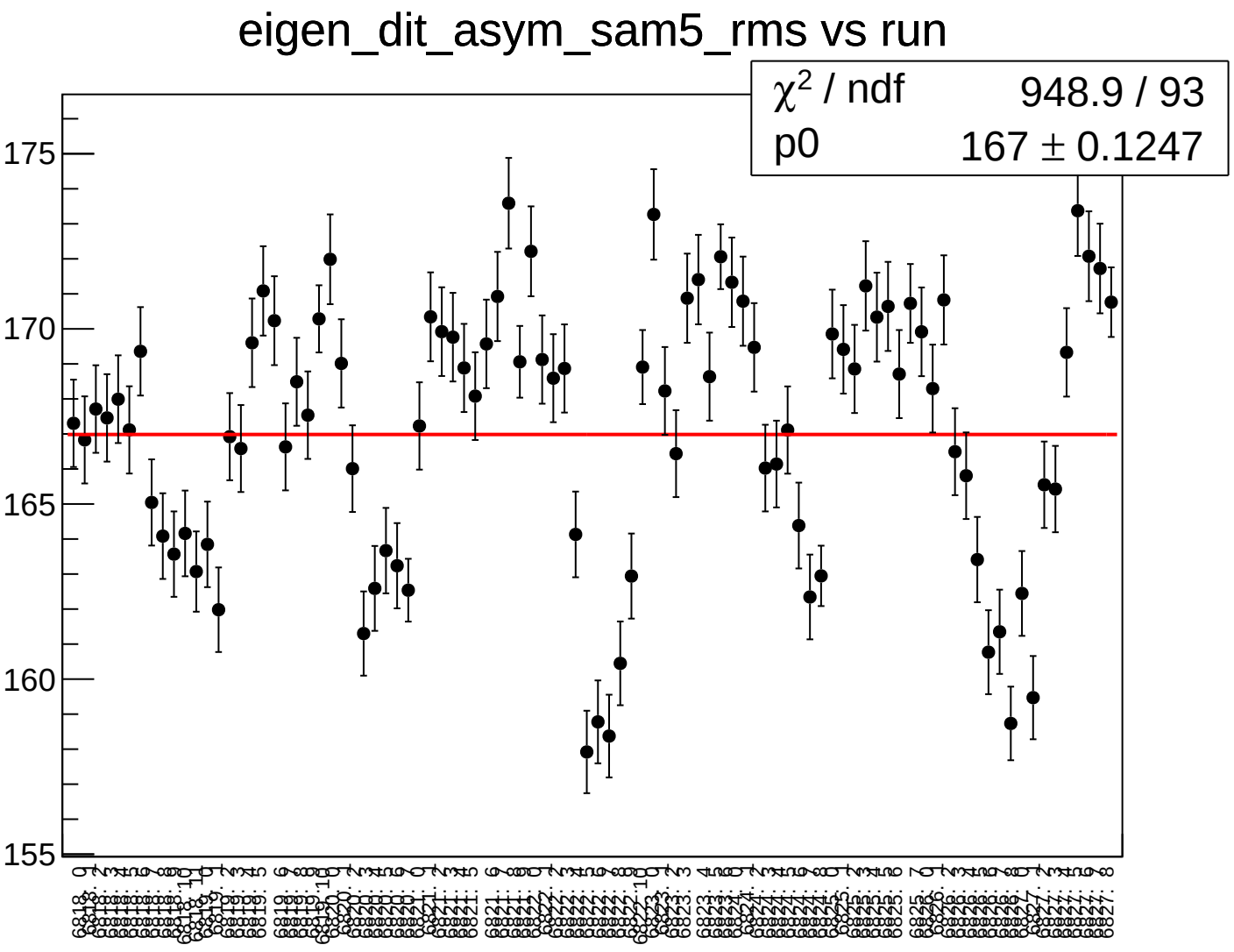

pull1D
Entries 94
Mean −0.01424
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

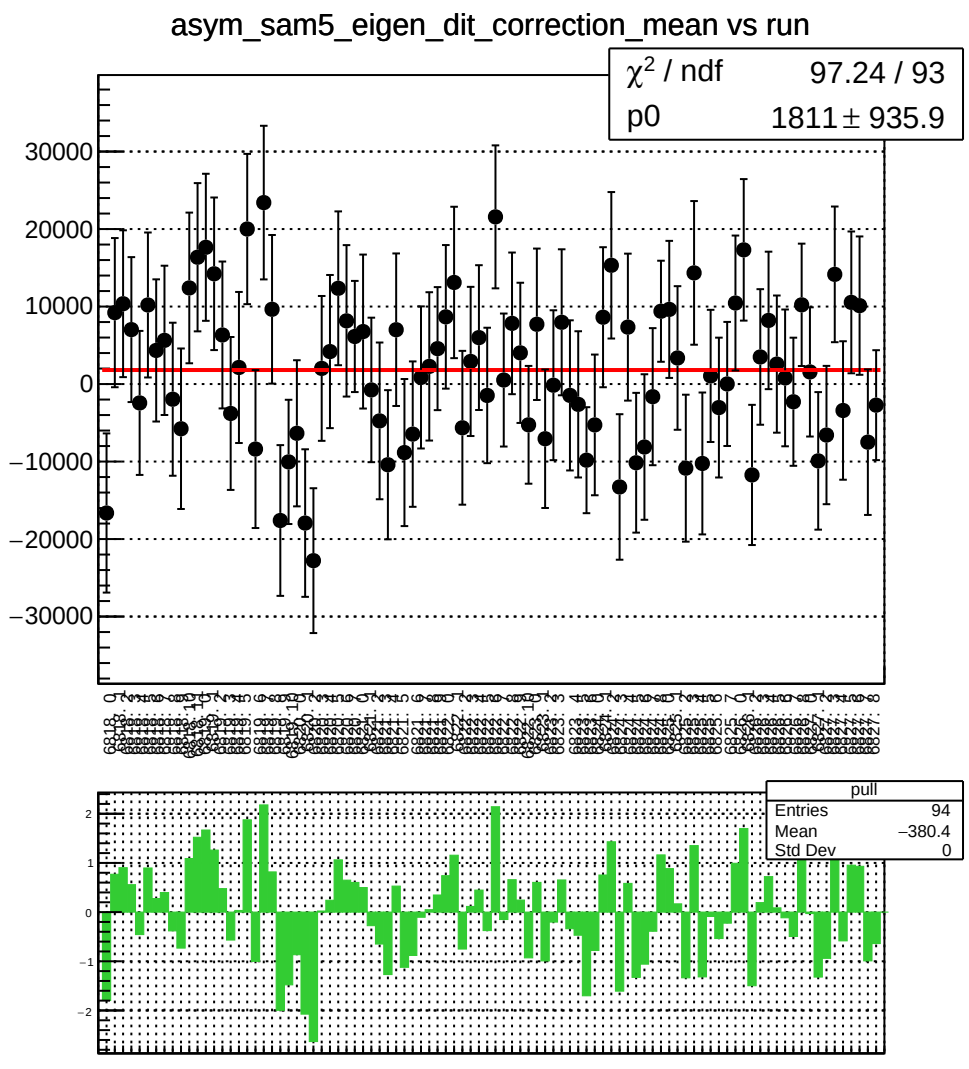

dit_asym_sam5_rms vs run
χ^2 / ndf 948.9 / 93
p0 167 ± 0.1247
175
170
165
160
155

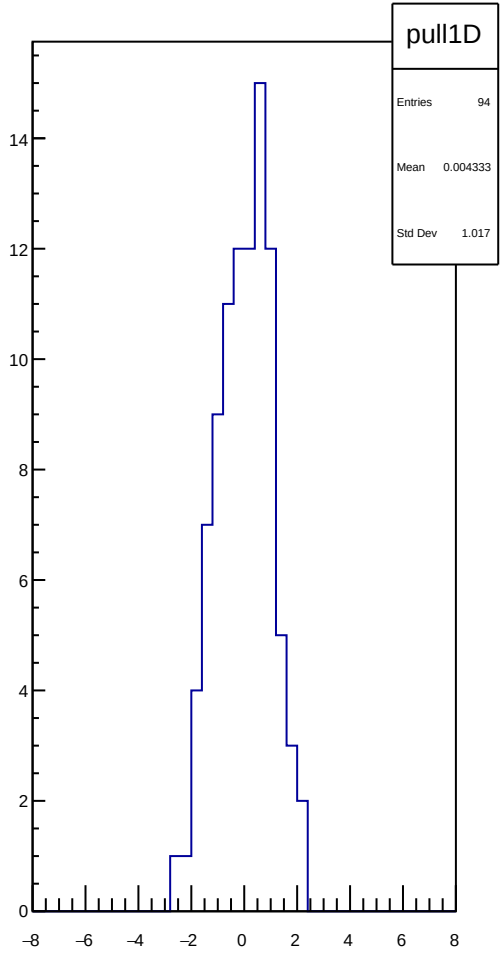

asym_sam5_dit_correction_mean vs run
χ² / ndf 97.24 / 93
p0 1811 ± 935.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −380.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.004333
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

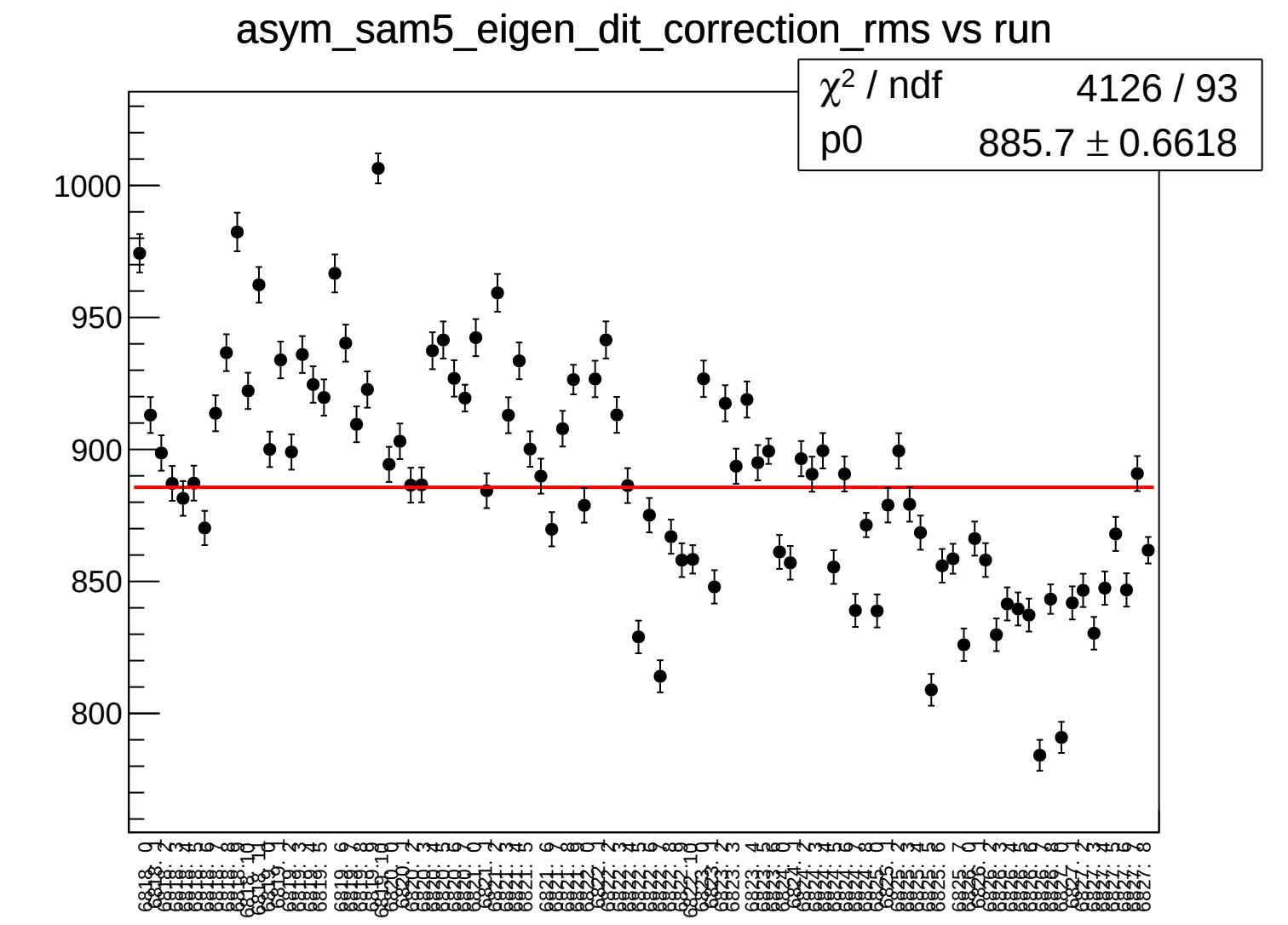

asym_sam5_dit_correction_rms vs run
χ² / ndf 4126 / 93
p0 885.7 ± 0.6618
1000
950
900
850
800

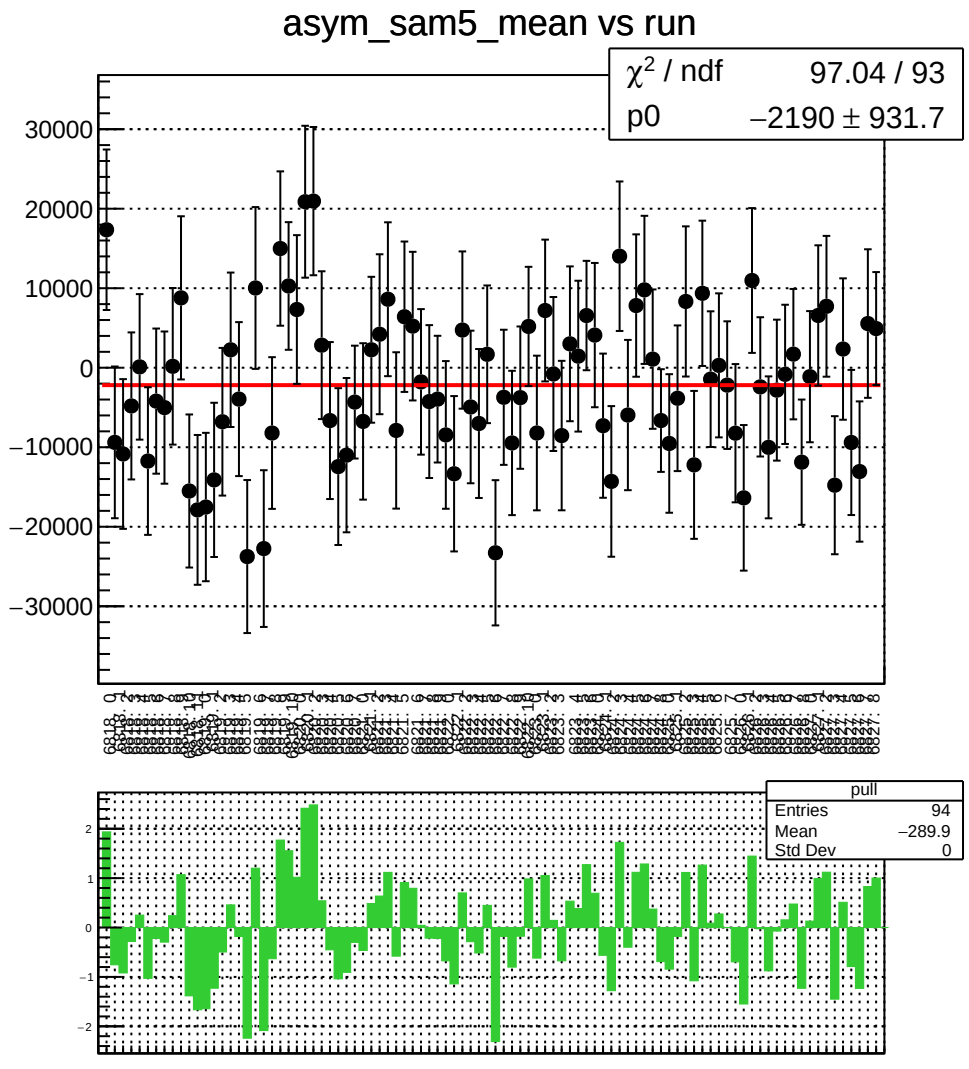

eigen_dit_asym_sam5_mean vs run
χ² / ndf 93.59 / 93
p0 −352.2 ± 176.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 73.74
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01424
Std Dev 0.9977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

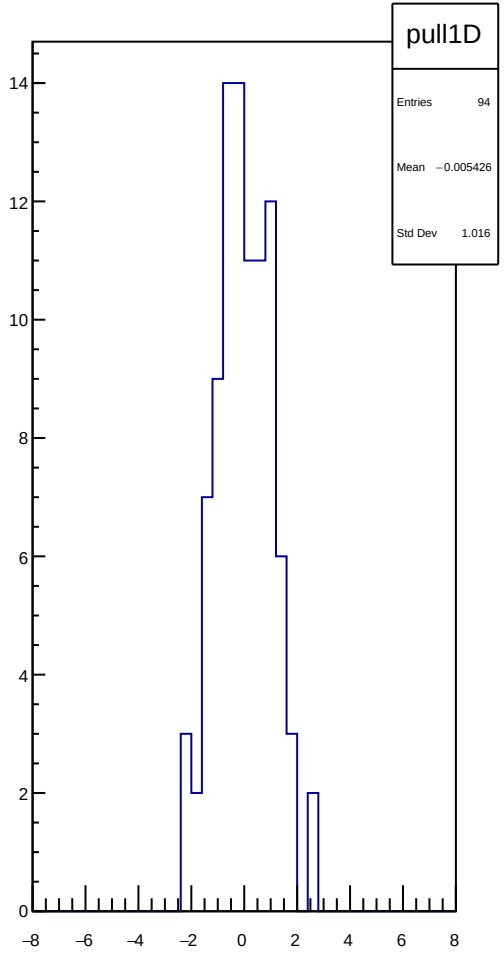

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 948.9 / 93
p0 167 ± 0.1247
175
170
165
160
155

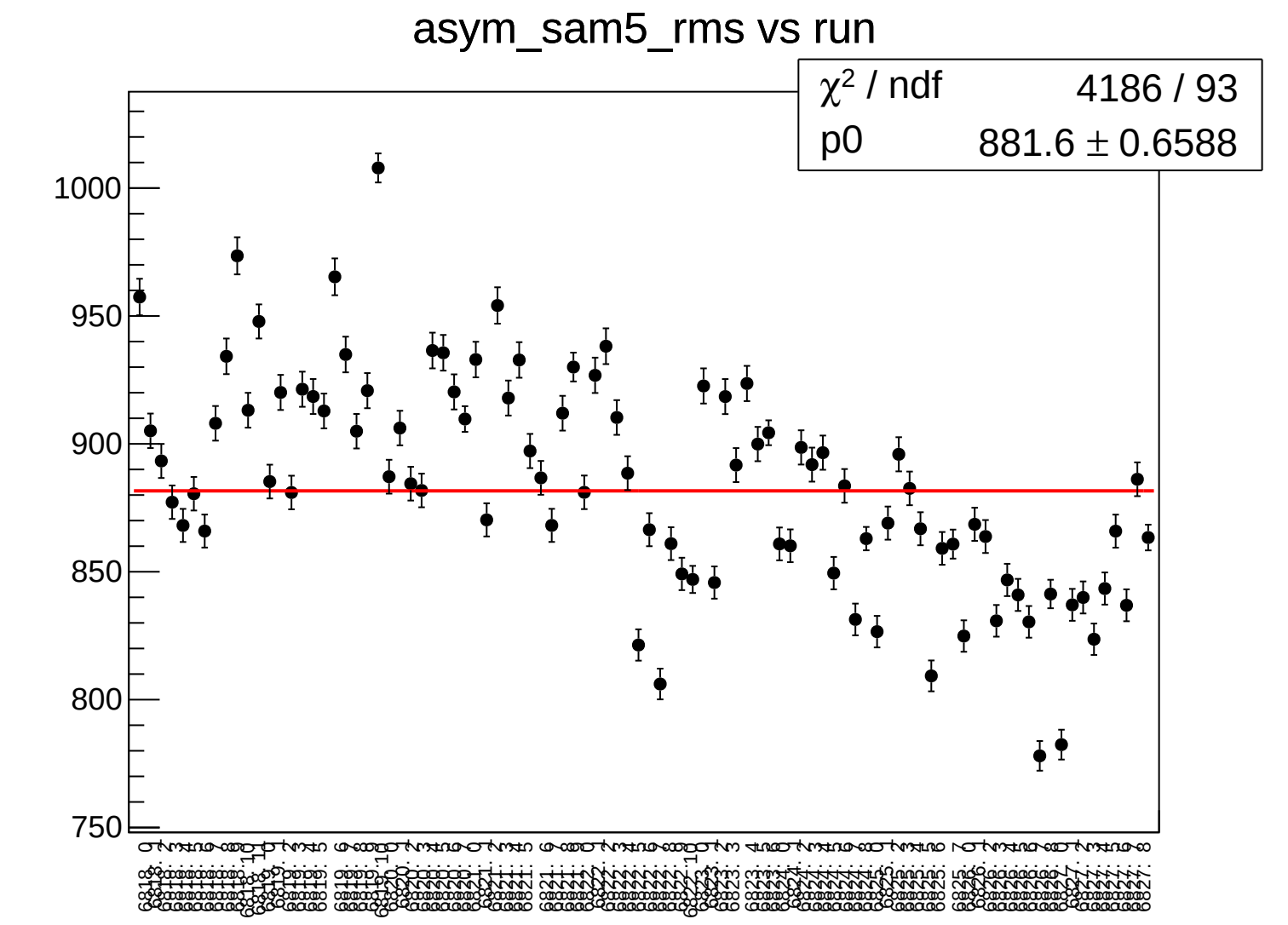

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 97.24 / 93
p0 1811 ± 935.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −380.4
Std Dev 0
2
1
0
−1
−2

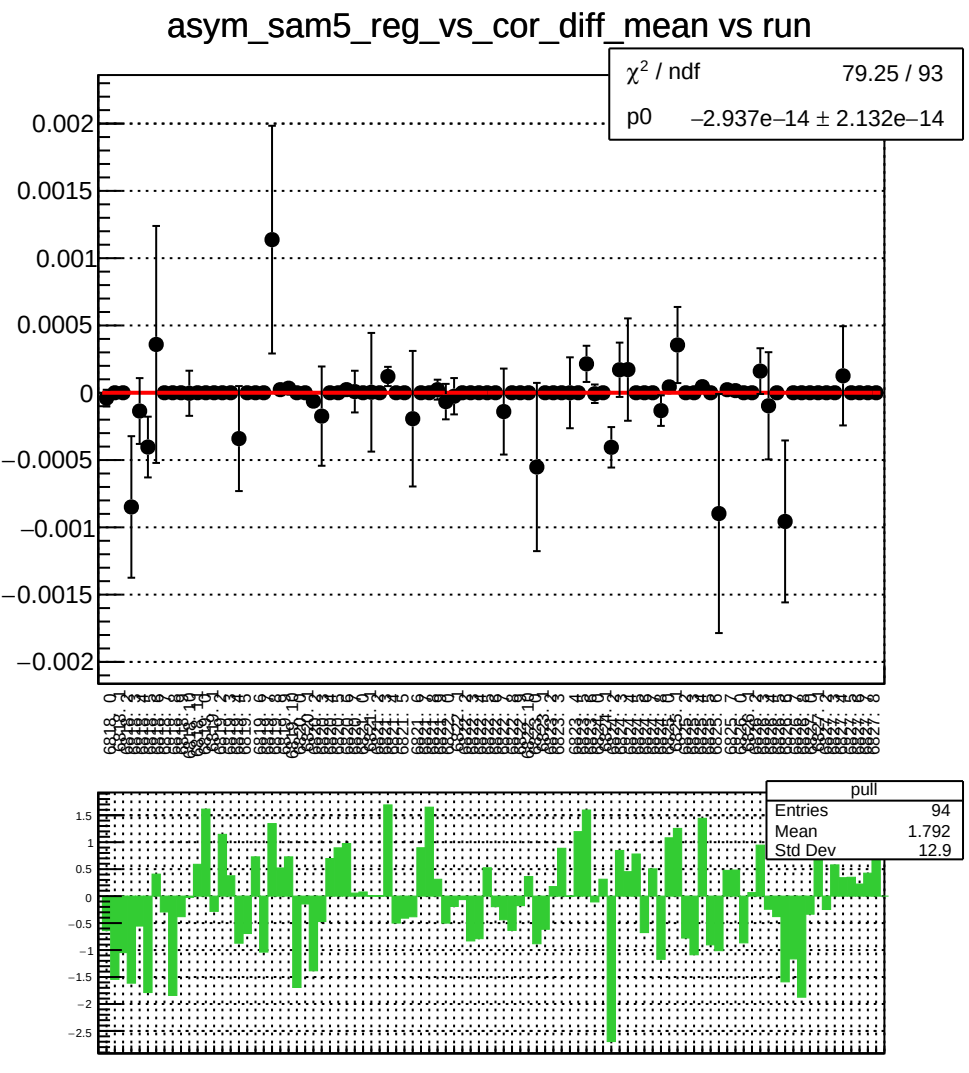

pull1D
Entries 94
Mean 0.004333
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

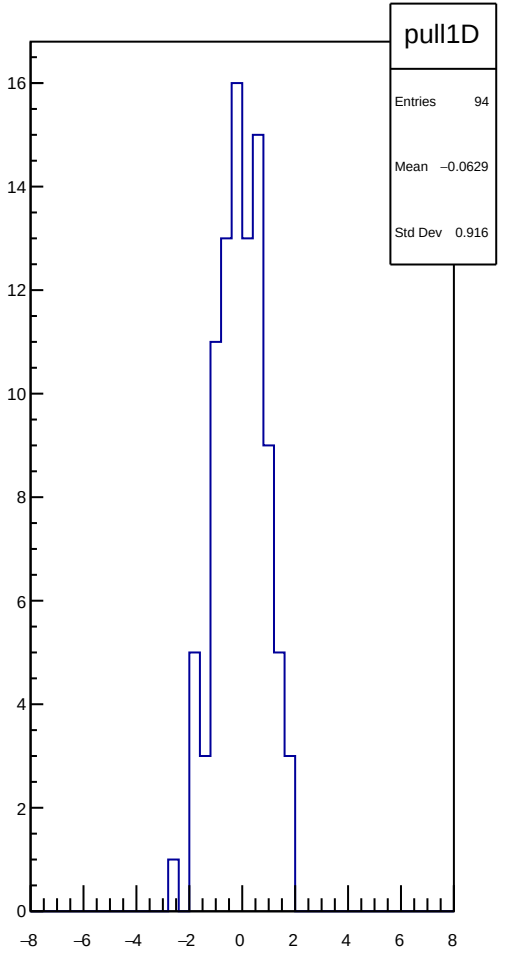

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4126 / 93
p0 885.7 ± 0.6618
1000
950
900
850
800

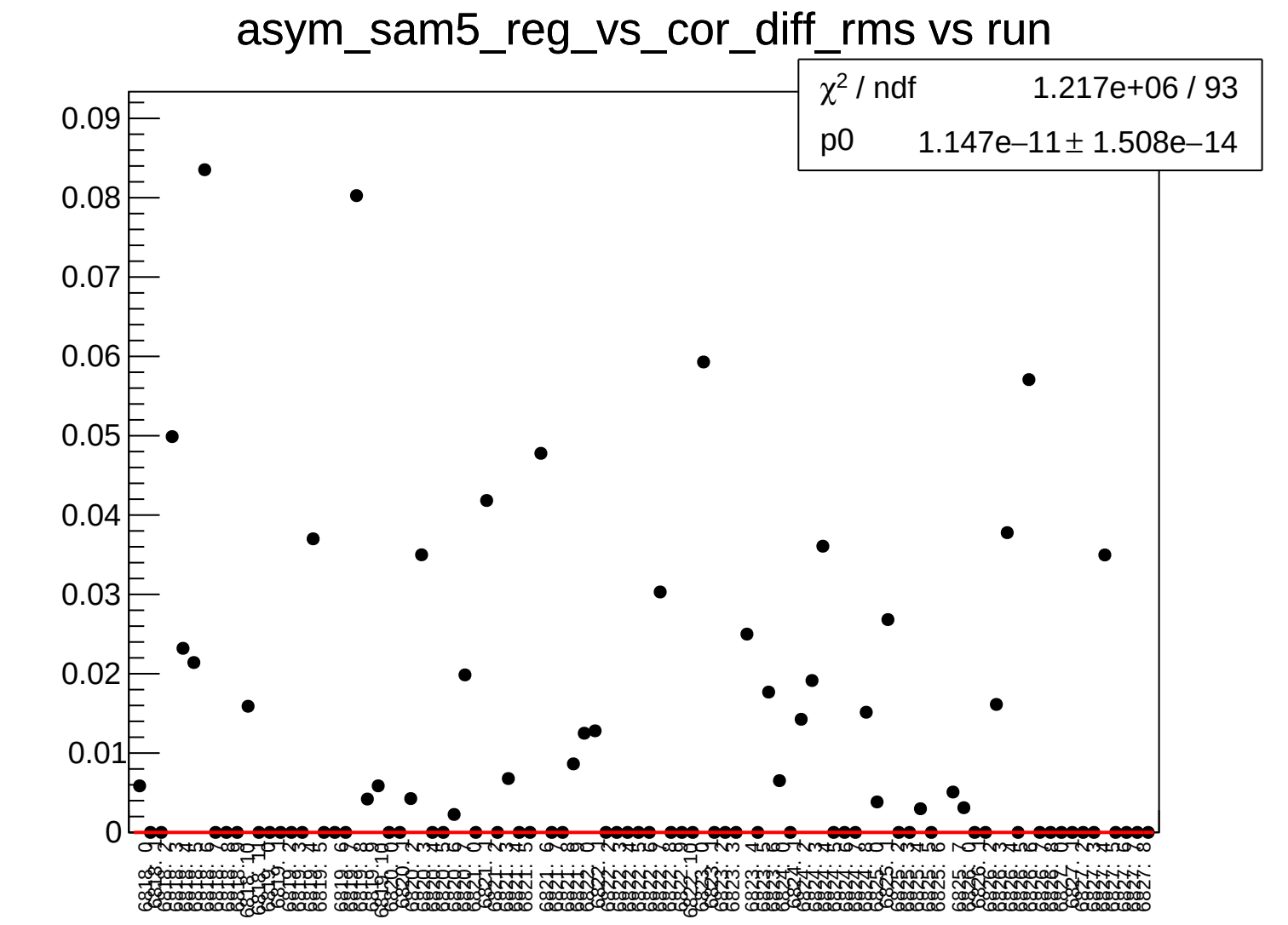

asym_sam5_mean vs run
χ² / ndf 97.04 / 93
p0 −2190 ± 931.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −289.9
Std Dev 0
2
1
0
−1
−2

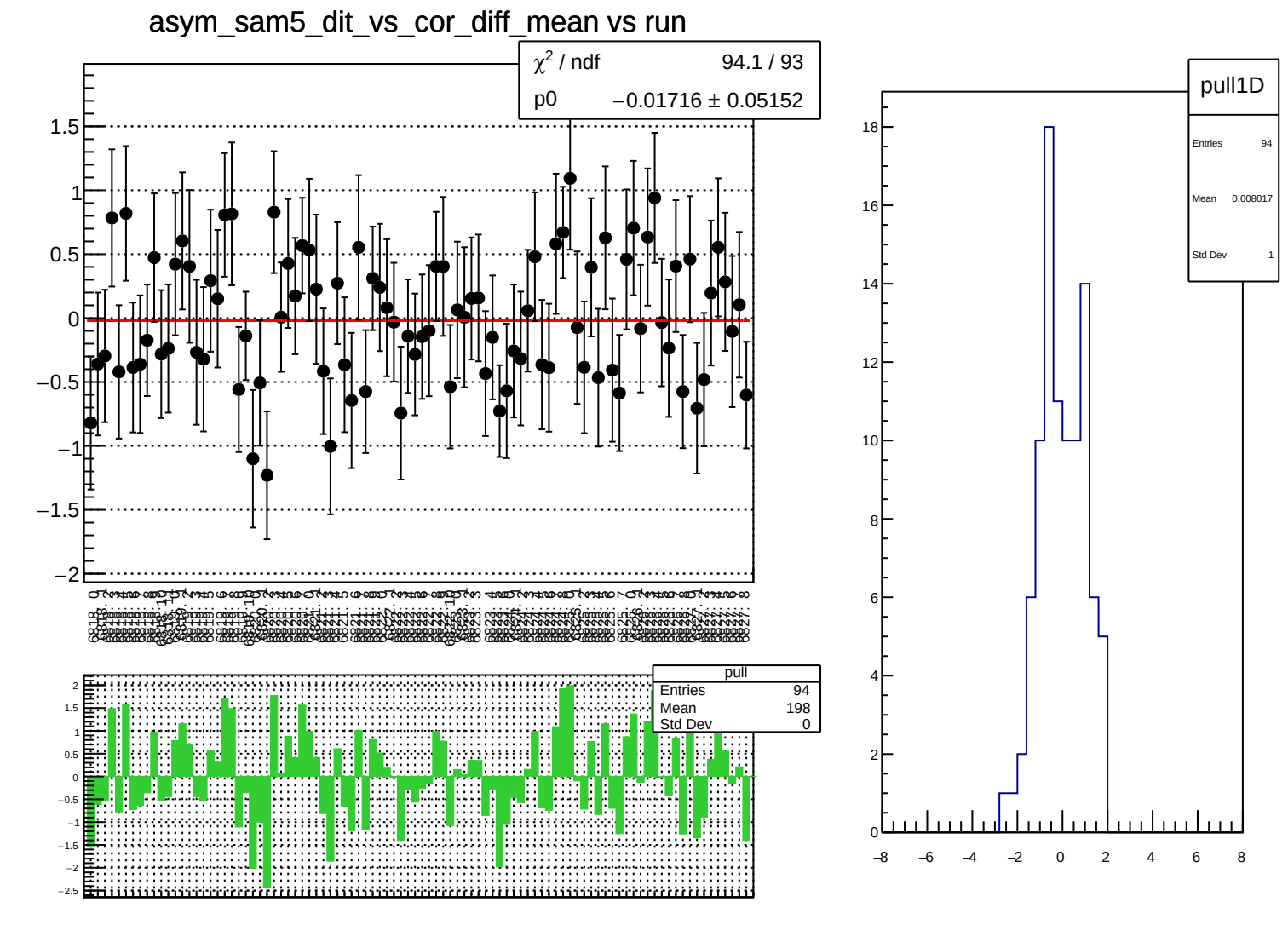

pull1D
Entries 94
Mean −0.005426
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

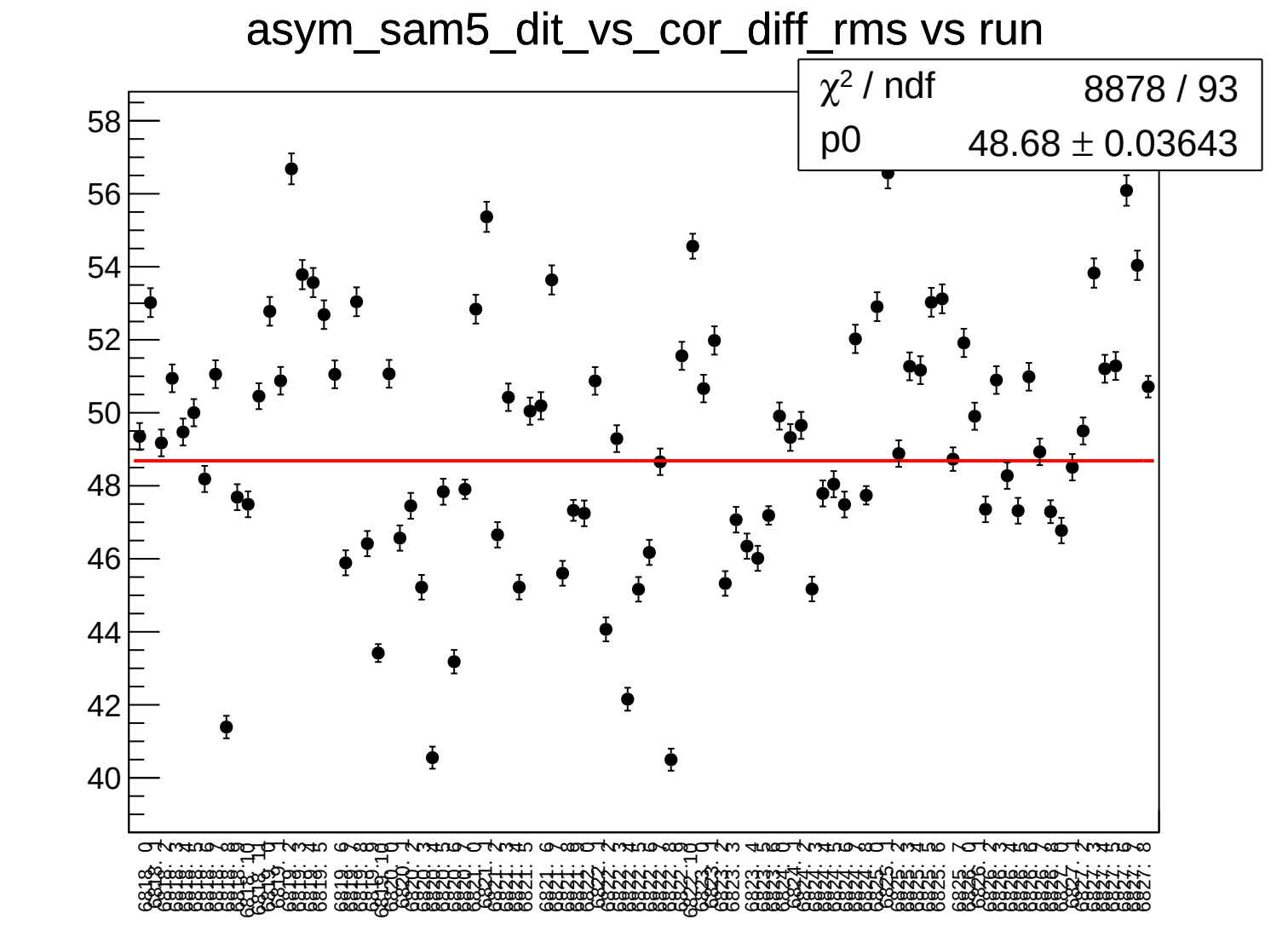

asym_sam5_rms vs run
χ² / ndf 4186 / 93
p0 881.6 ± 0.6588
1000
950
900
850
800
750

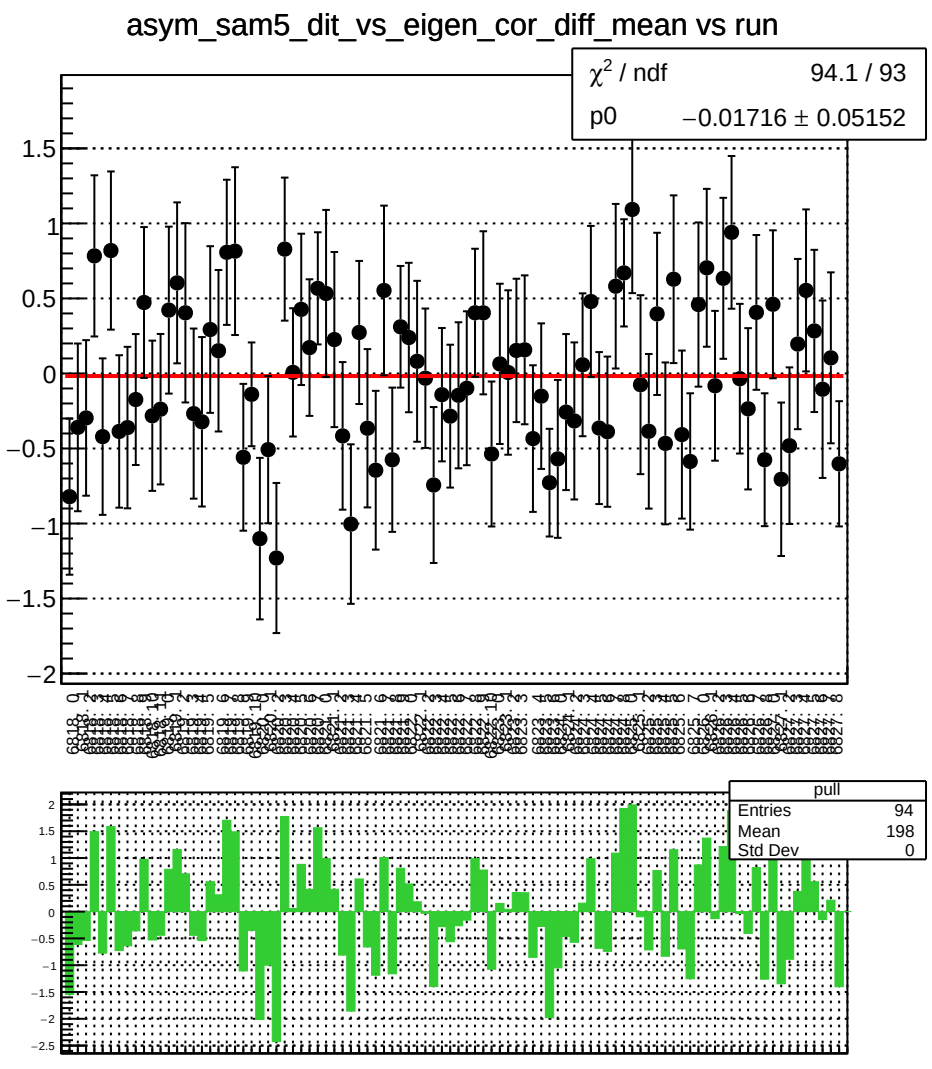

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 79.25 / 93
p0 −2.937e−14 ± 2.132e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 1.792
Std Dev 12.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

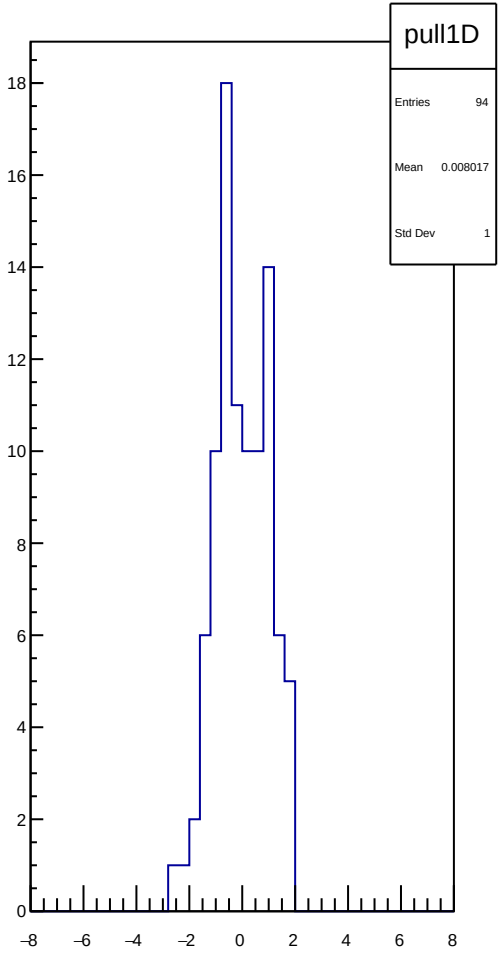

pull1D
Entries 94
Mean −0.0629
Std Dev 0.916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

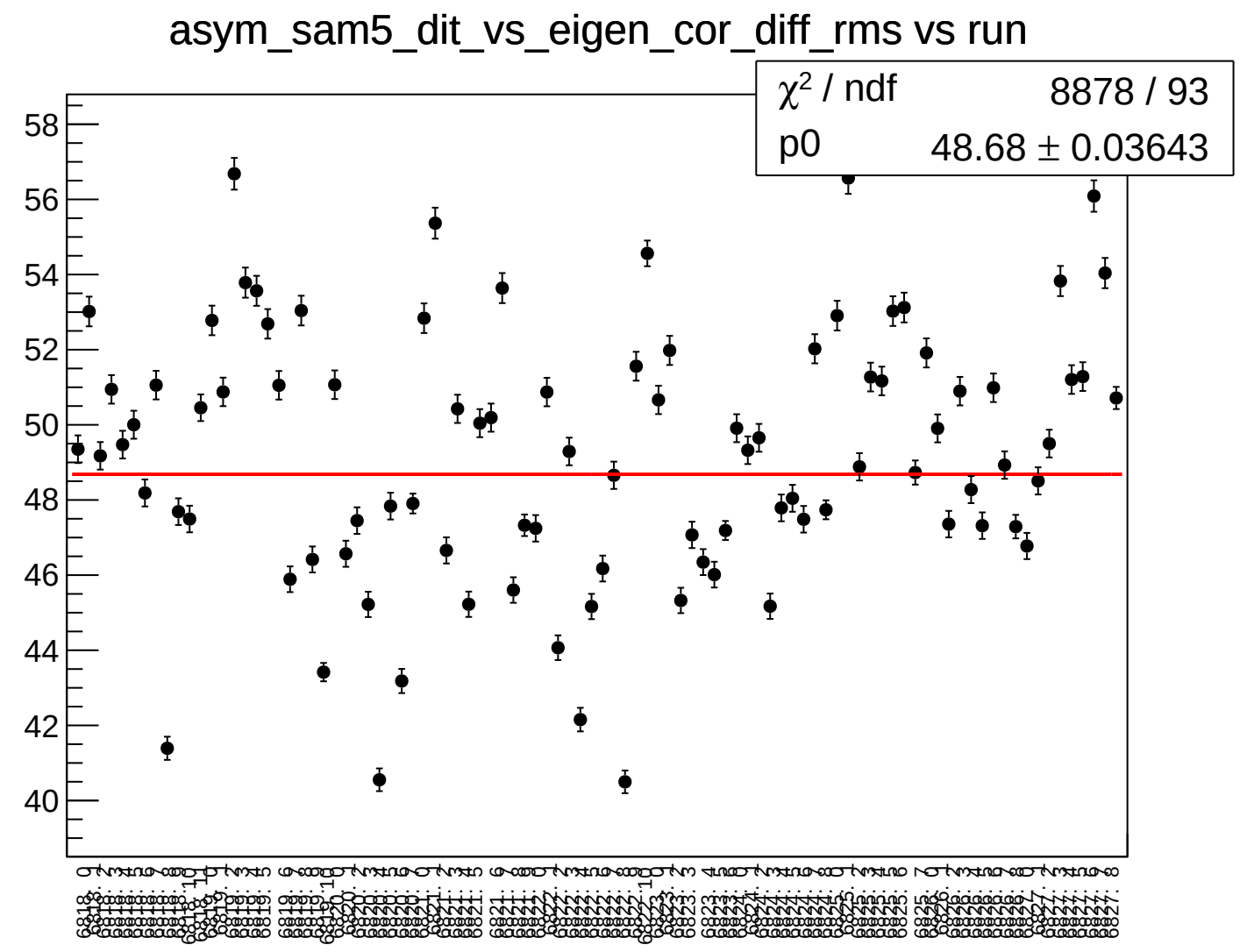

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 93
p0 1.147e−11 ± 1.508e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

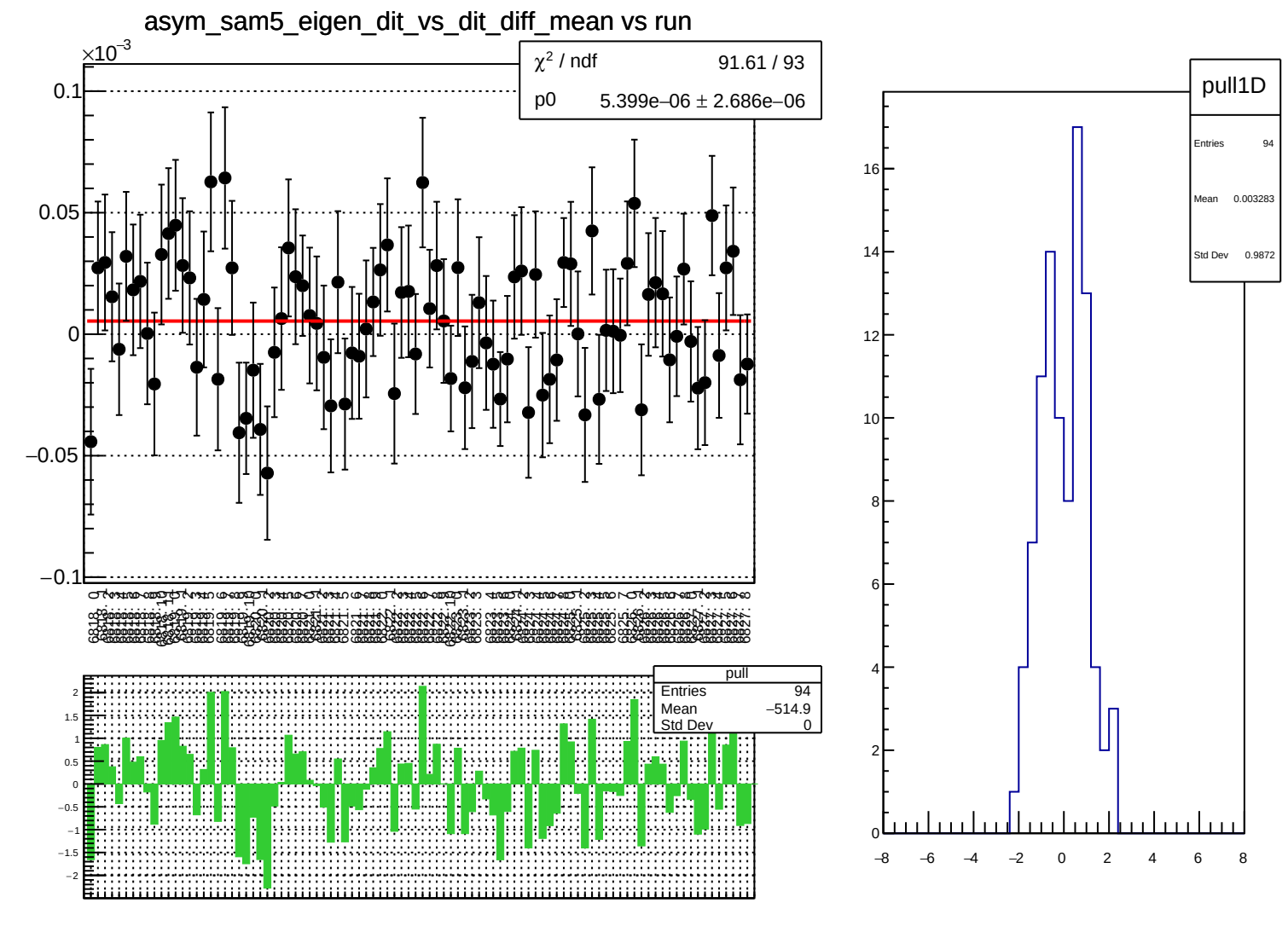

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 93
p0 −0.01716 ± 0.05152
pull
Entries 94
Mean 198
Std Dev 0
pull1D
Entries 94
Mean 0.008017
Std Dev 1

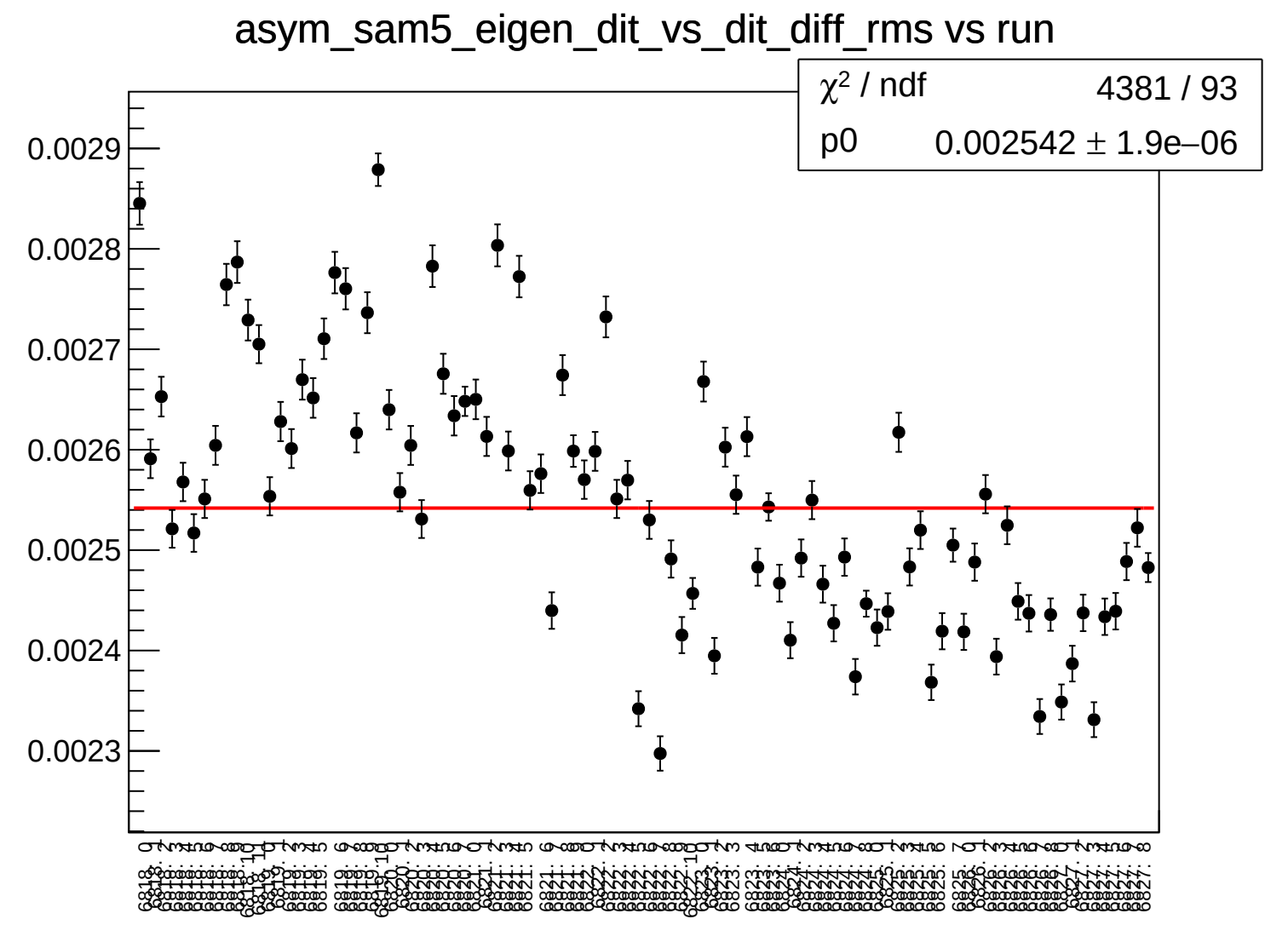

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 8878 / 93
p0 48.68 ± 0.03643
58
56
54
52
50
48
46
44
42
40

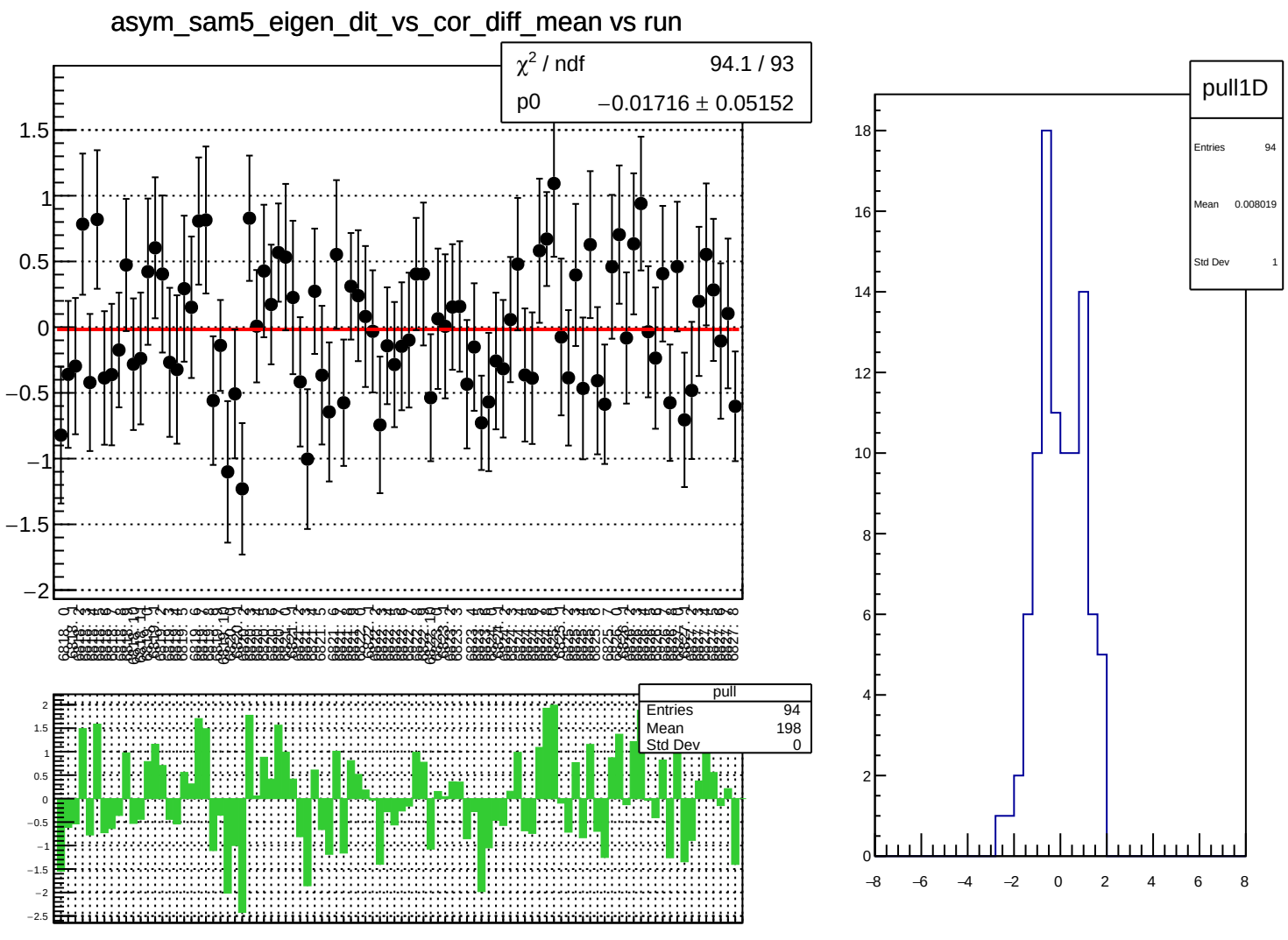

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 93
p0 −0.01716 ± 0.05152
pull
Entries 94
Mean 198
Std Dev 0

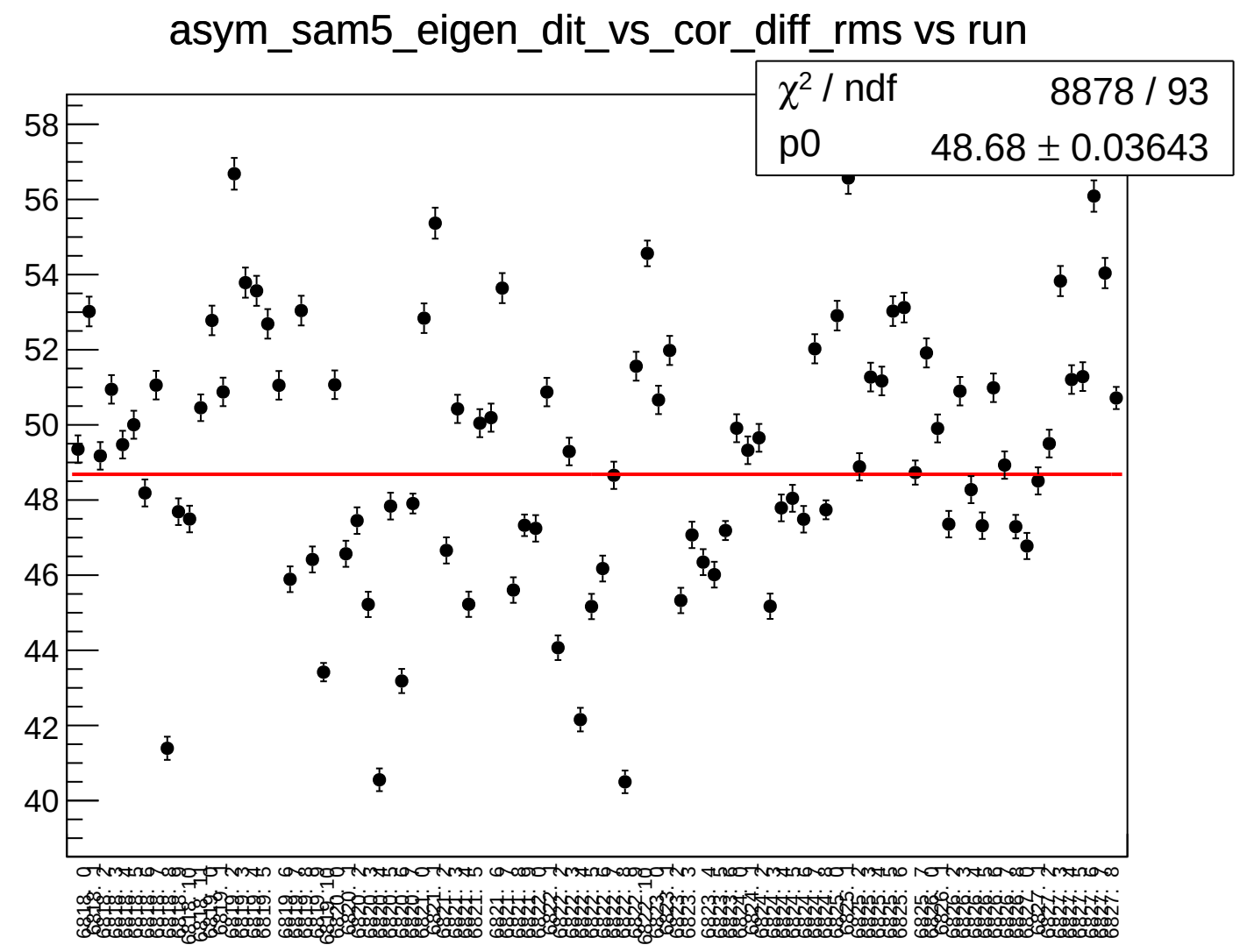

pull1D
Entries 94
Mean 0.008017
Std Dev 1

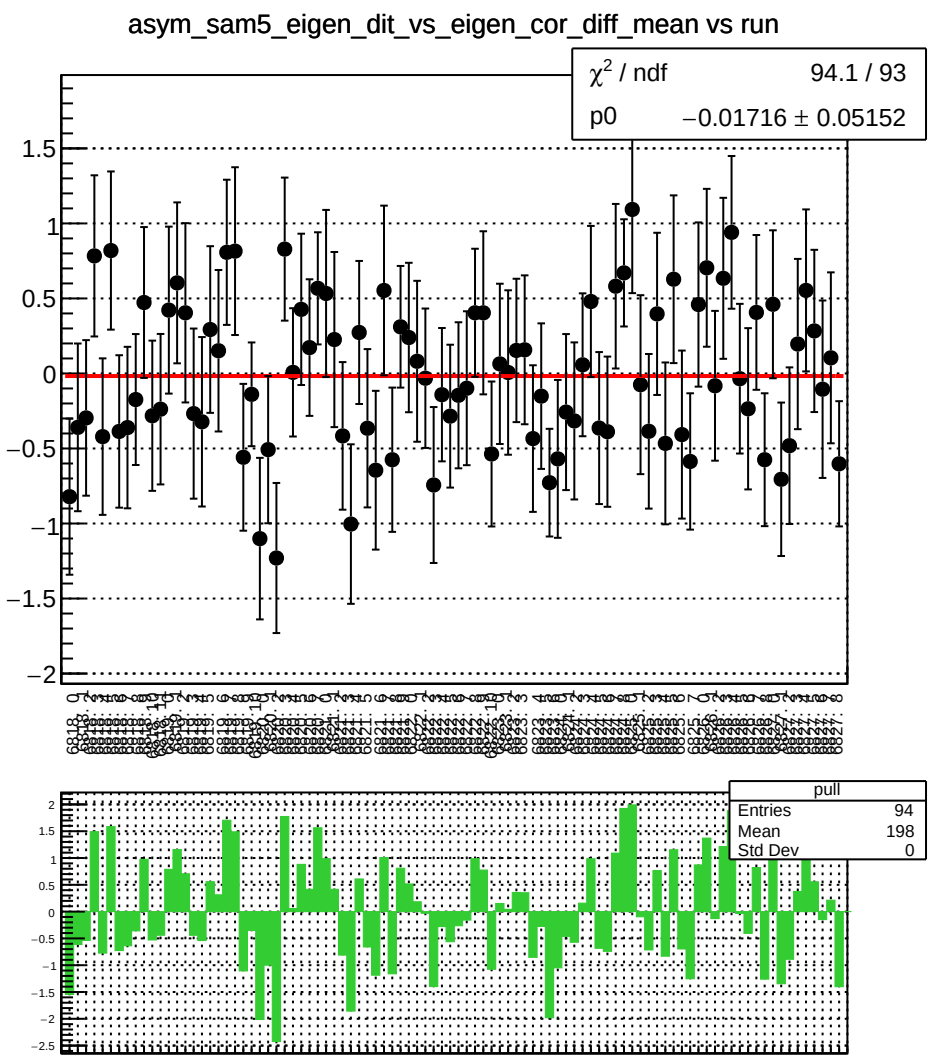

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8878 / 93
p0 48.68 ± 0.03643
58
56
54
52
50
48
46
44
42
40

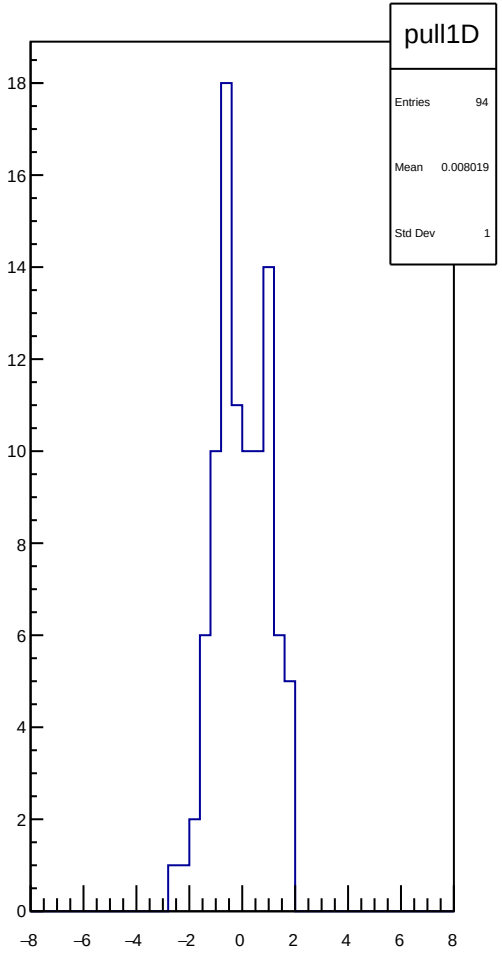

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.61 / 93
p0 5.399e−06 ± 2.686e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 94
Mean −514.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.003283
Std Dev 0.9872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

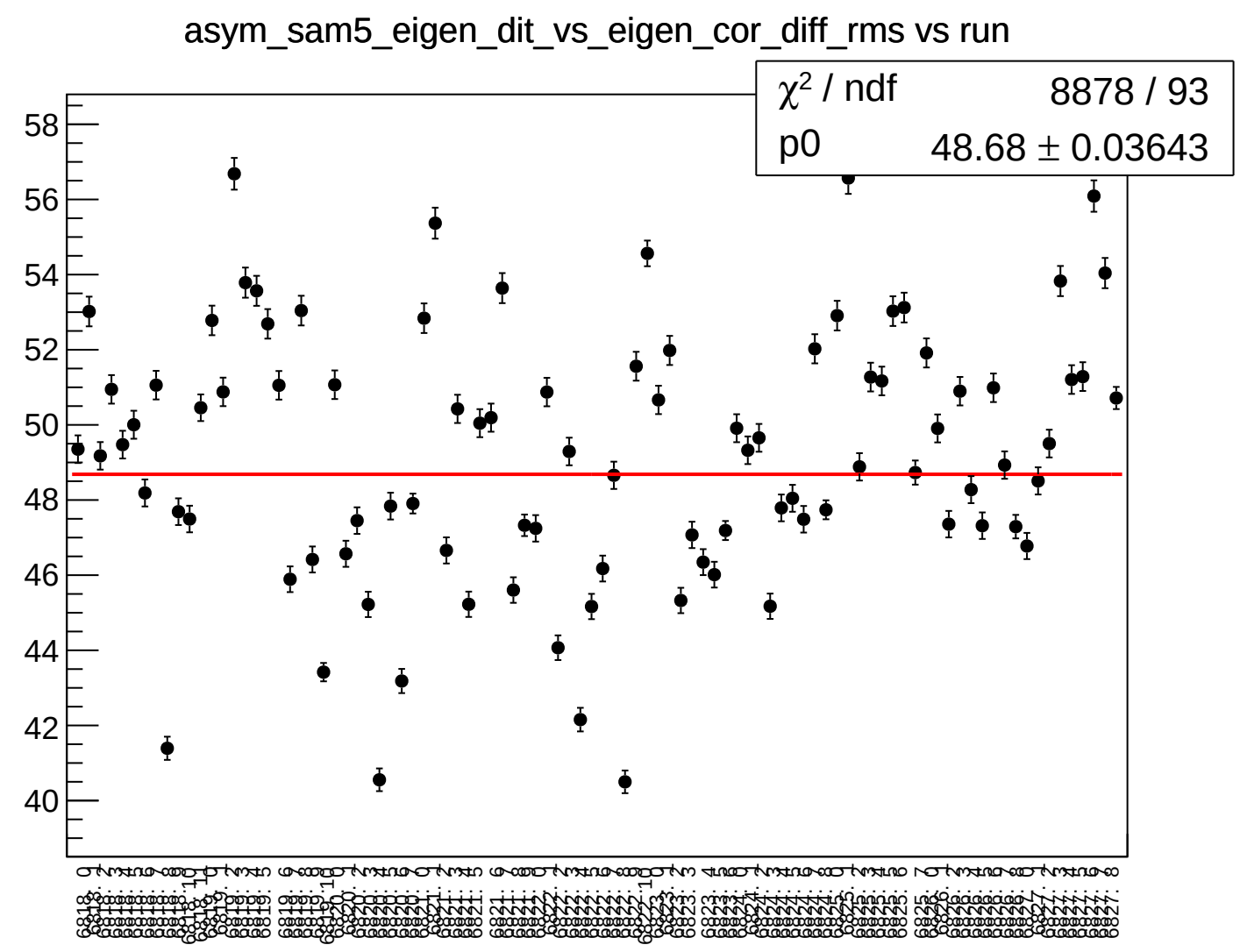

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4381 / 93
p0 0.002542 ± 1.9e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023

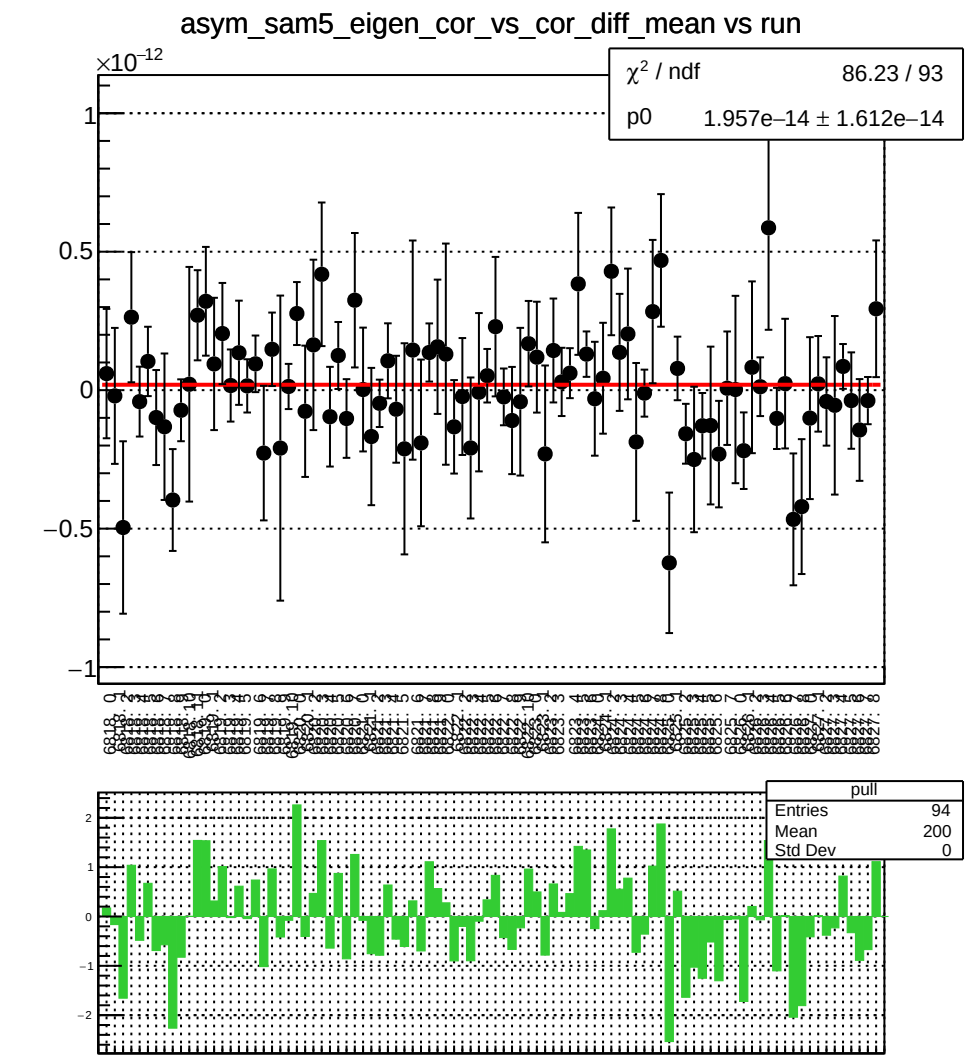

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.1 / 93
p0 −0.01716 ± 0.05152
pull
Entries 94
Mean 198
Std Dev 0
pull1D
Entries 94
Mean 0.008019
Std Dev 1

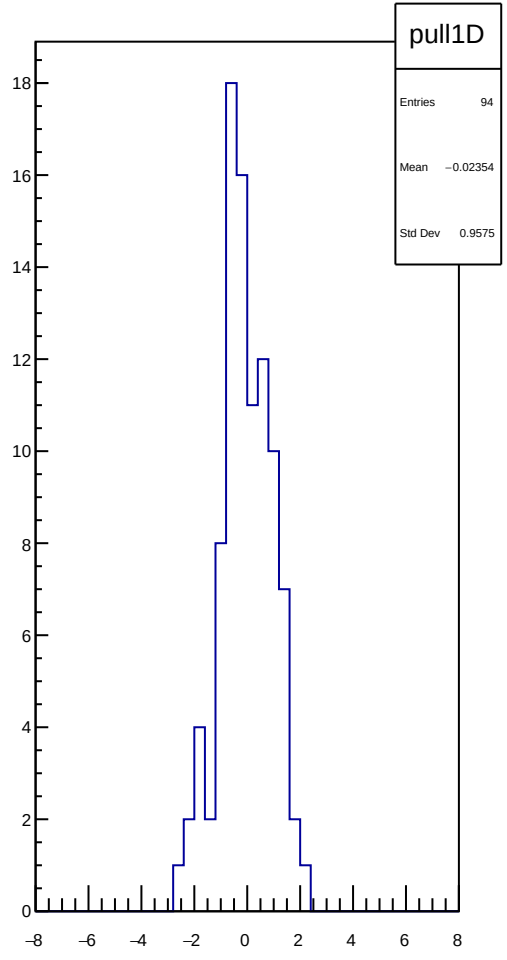

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8878 / 93
p0 48.68 ± 0.03643
58
56
54
52
50
48
46
44
42
40

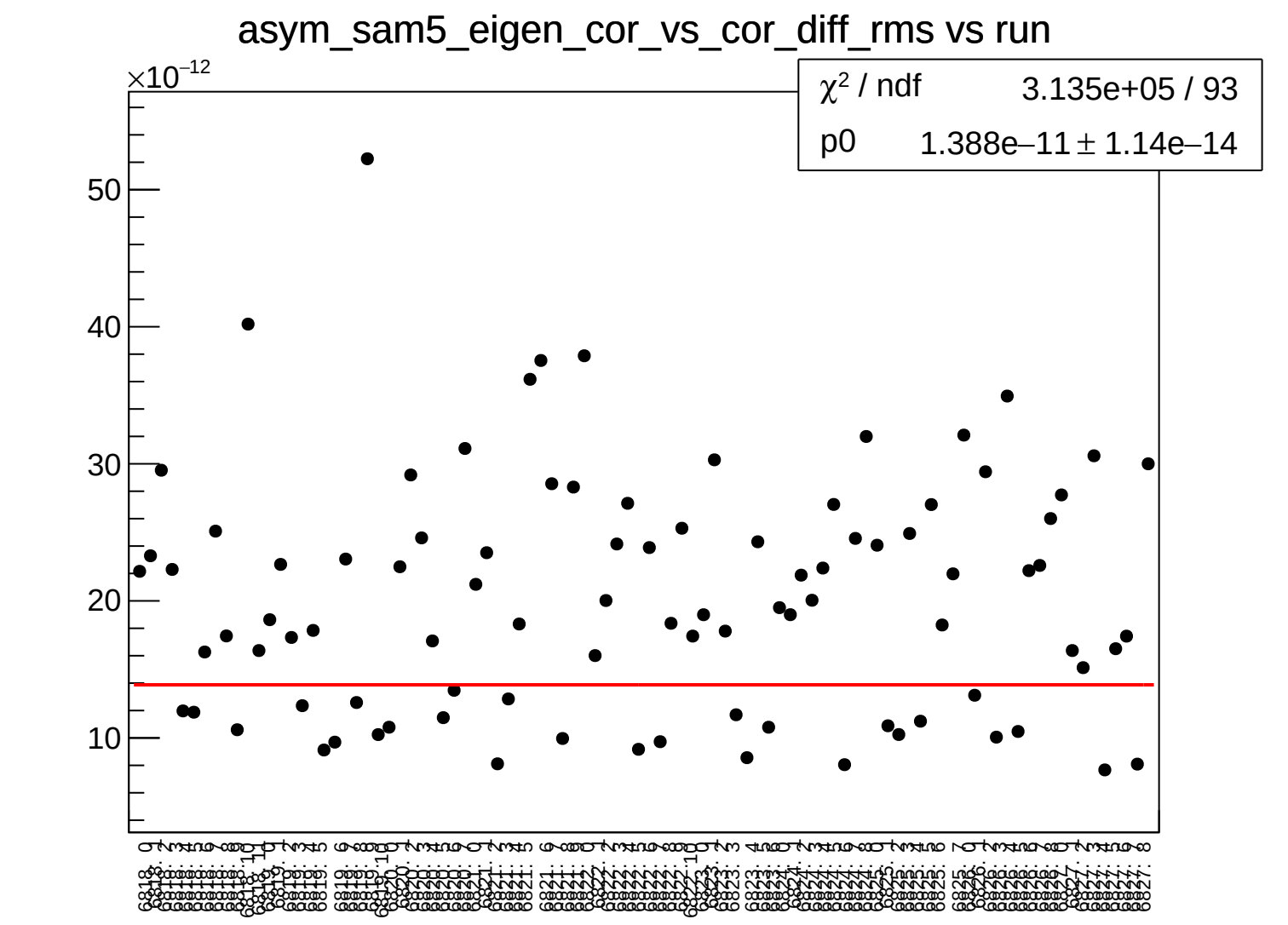

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.1 / 93
p0 −0.01716 ± 0.05152
pull
Entries 94
Mean 198
Std Dev 0

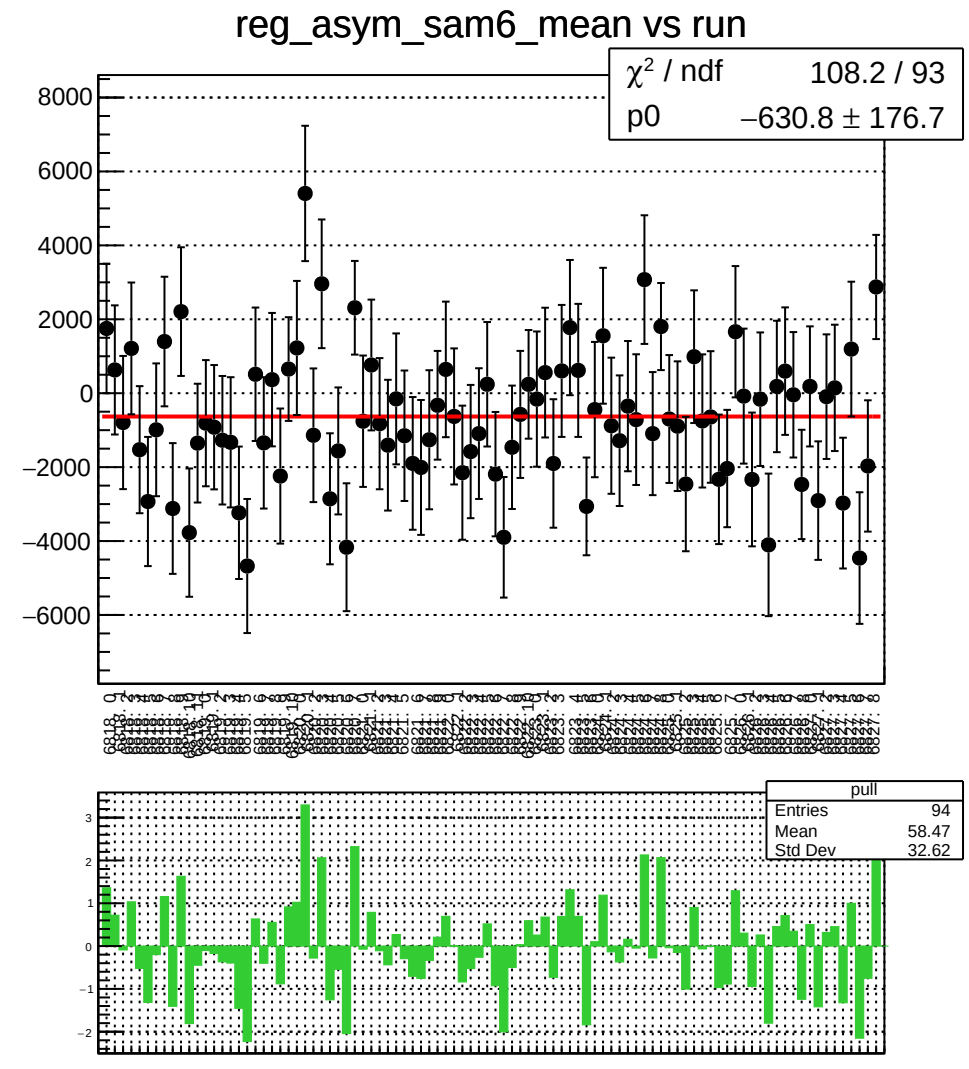

pull1D
Entries 94
Mean 0.008019
Std Dev 1

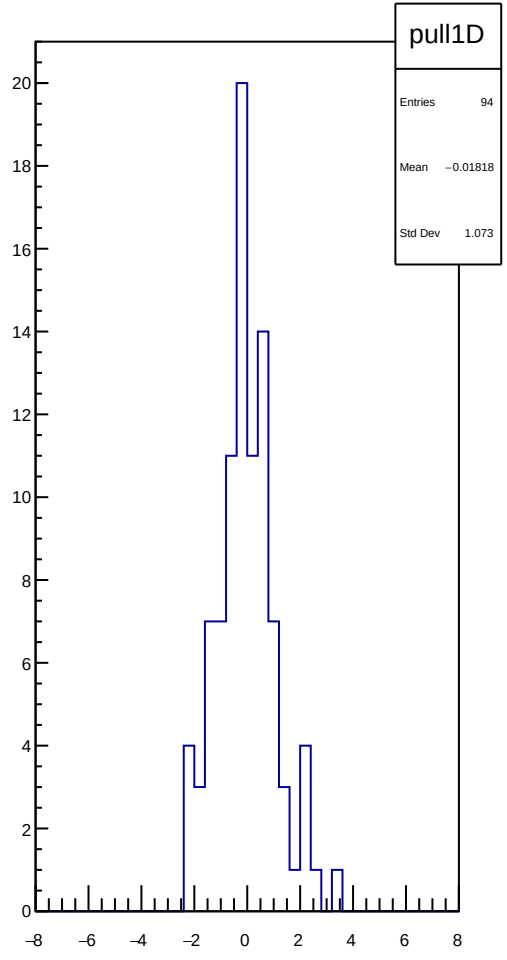

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8878 / 93
p0 48.68 ± 0.03643
58
56
54
52
50
48
46
44
42
40

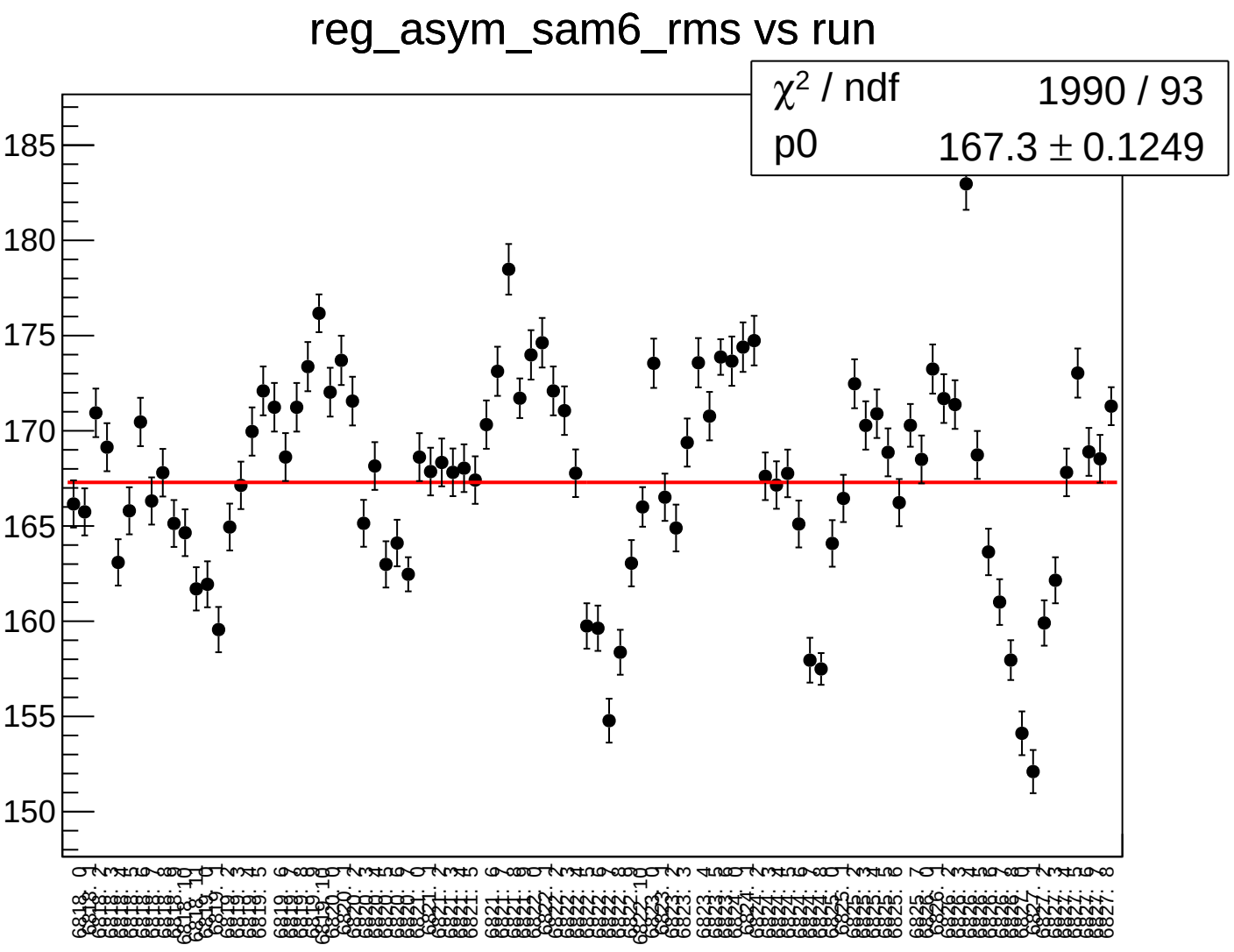

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.23 / 93
p0 1.957e−14 ± 1.612e−14
pull
Entries 94
Mean 200
Std Dev 0

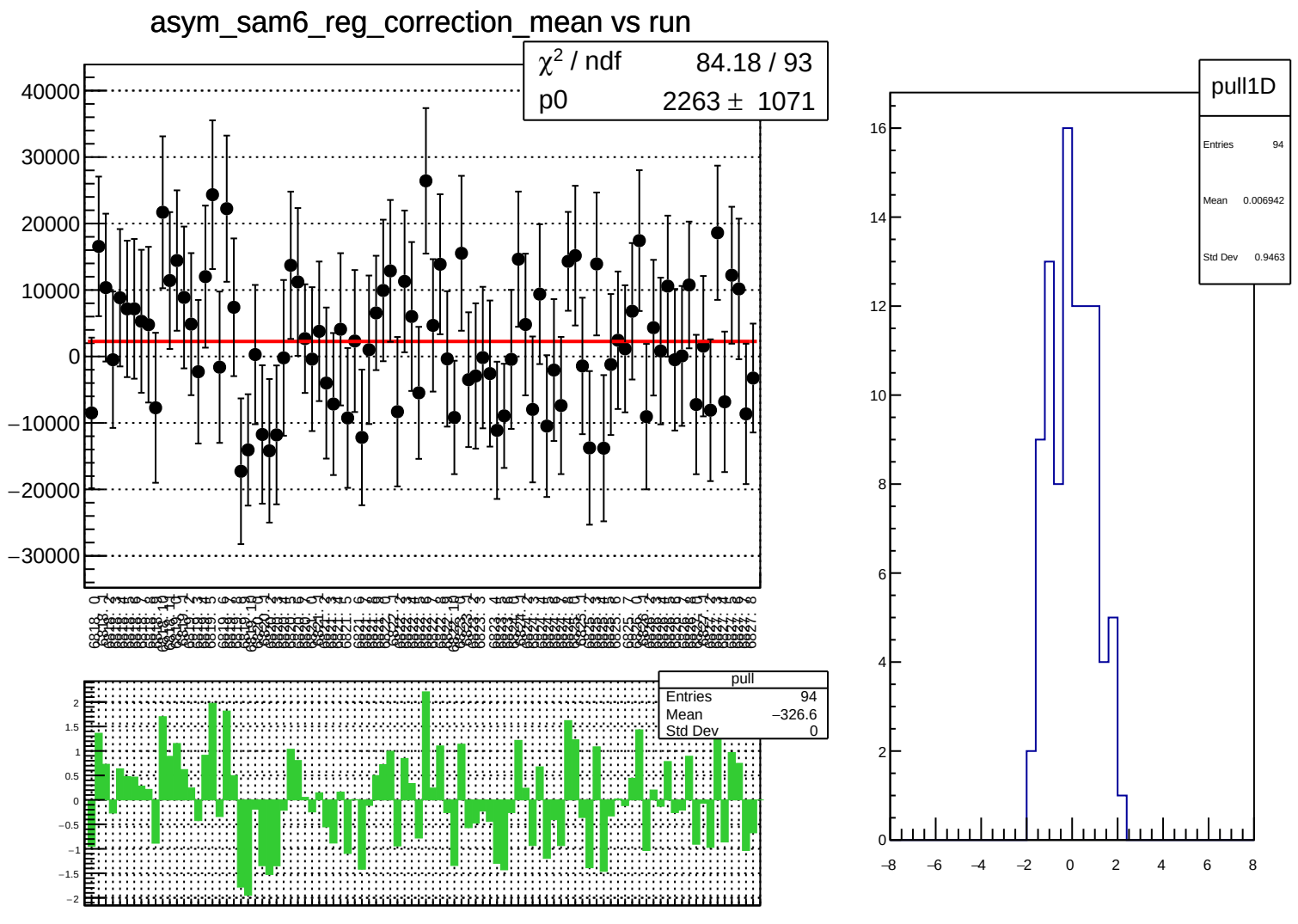

pull1D
Entries 94
Mean −0.02354
Std Dev 0.9575

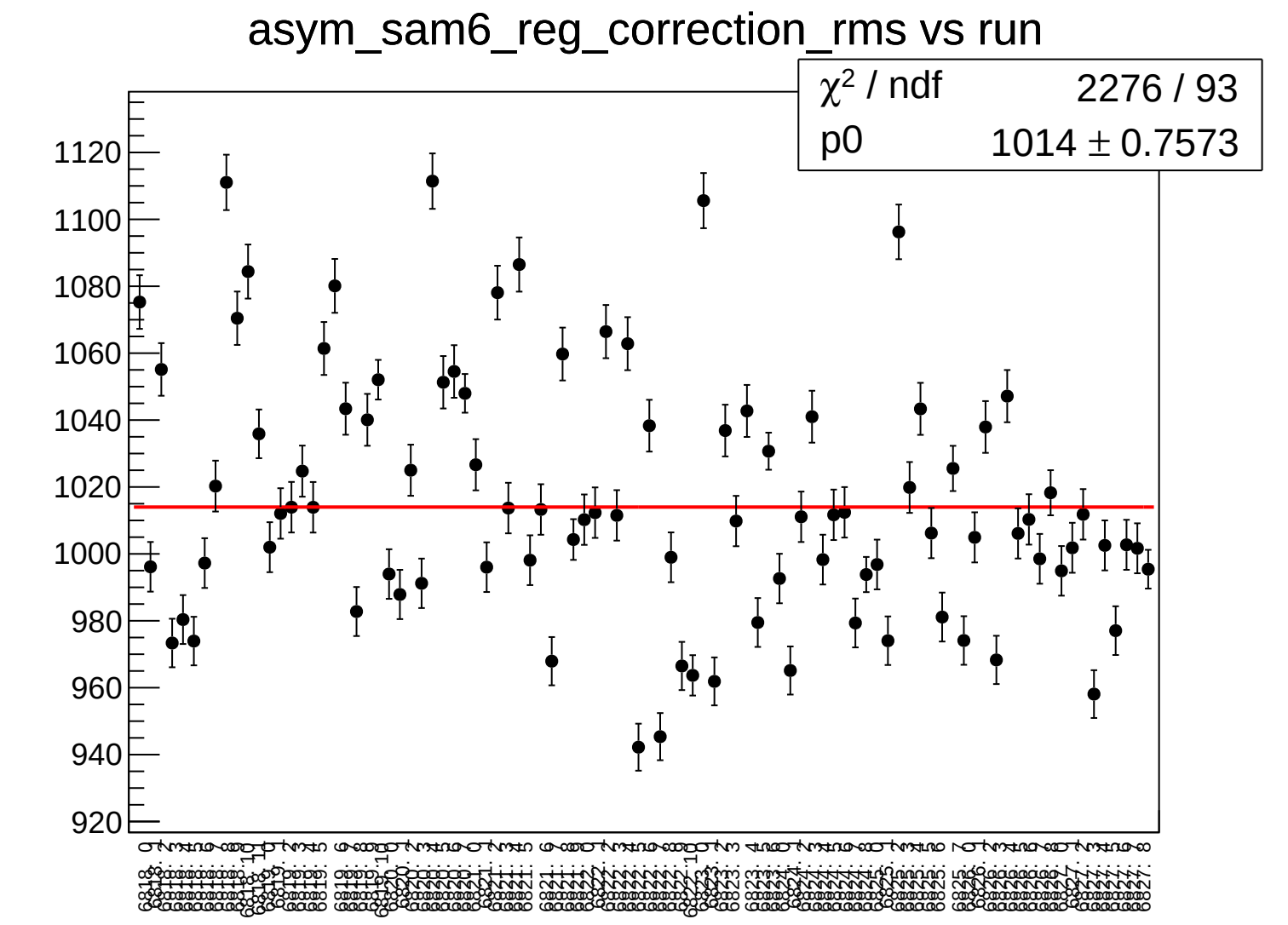

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.135e+05 / 93
p0 1.388e−11 ± 1.14e−14
50
40
30
20
10

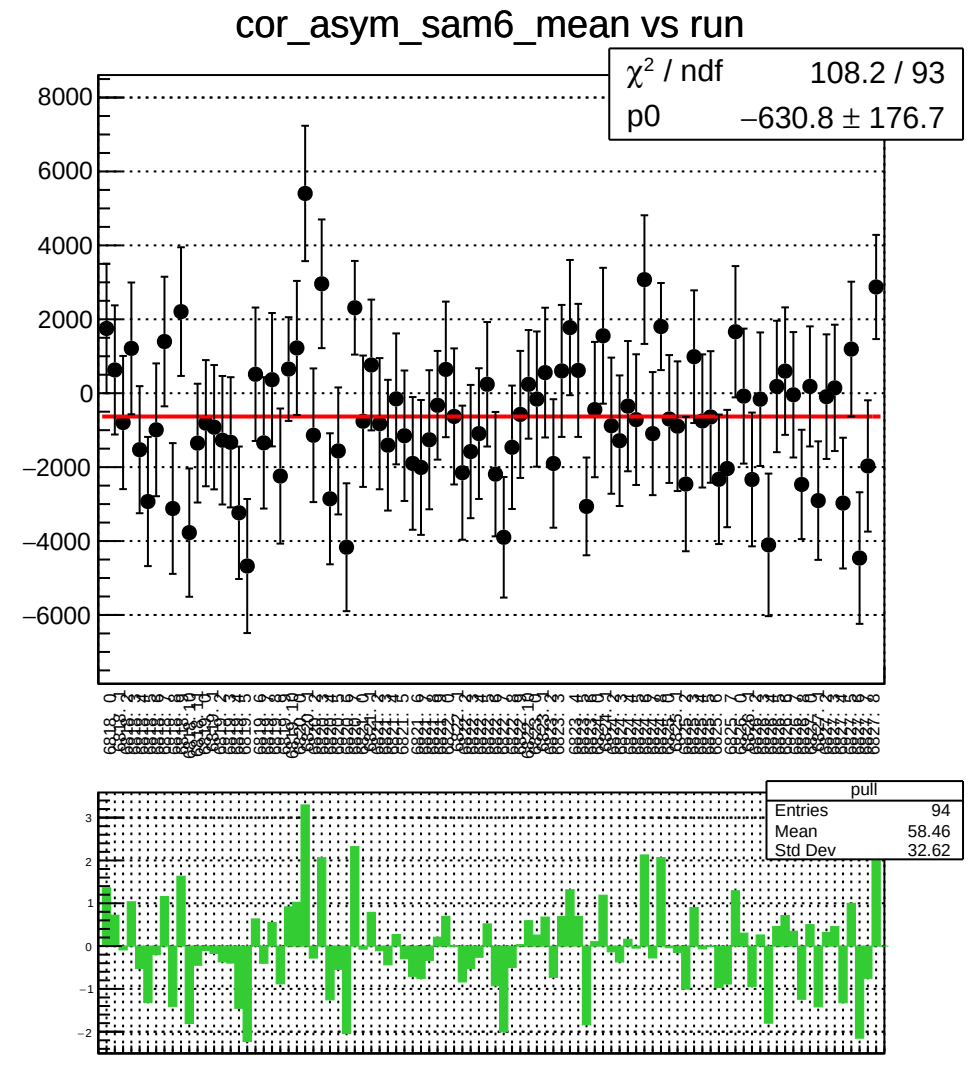

reg_asym_sam6_mean vs run
χ² / ndf 108.2 / 93
p0 −630.8 ± 176.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 58.47
Std Dev 32.62
3
2
1
0
−1
−2

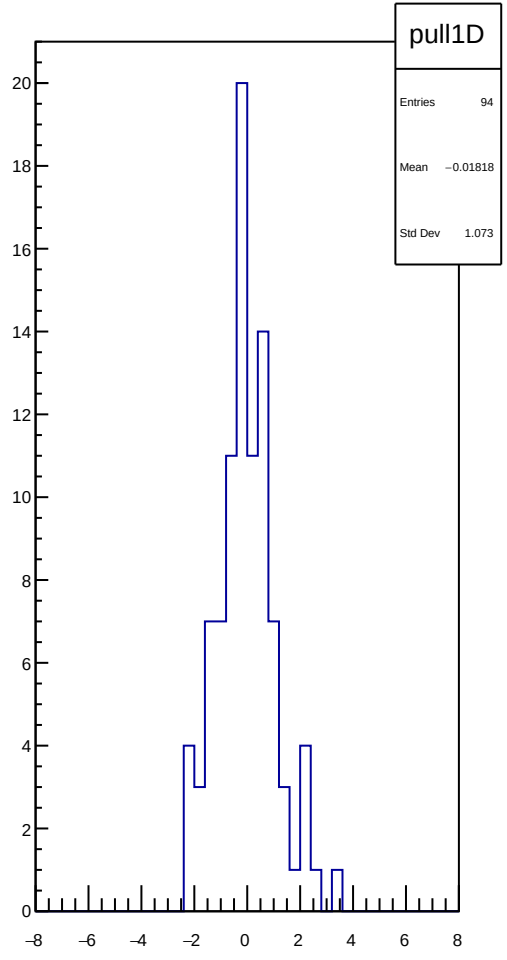

pull1D
Entries 94
Mean −0.01818
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

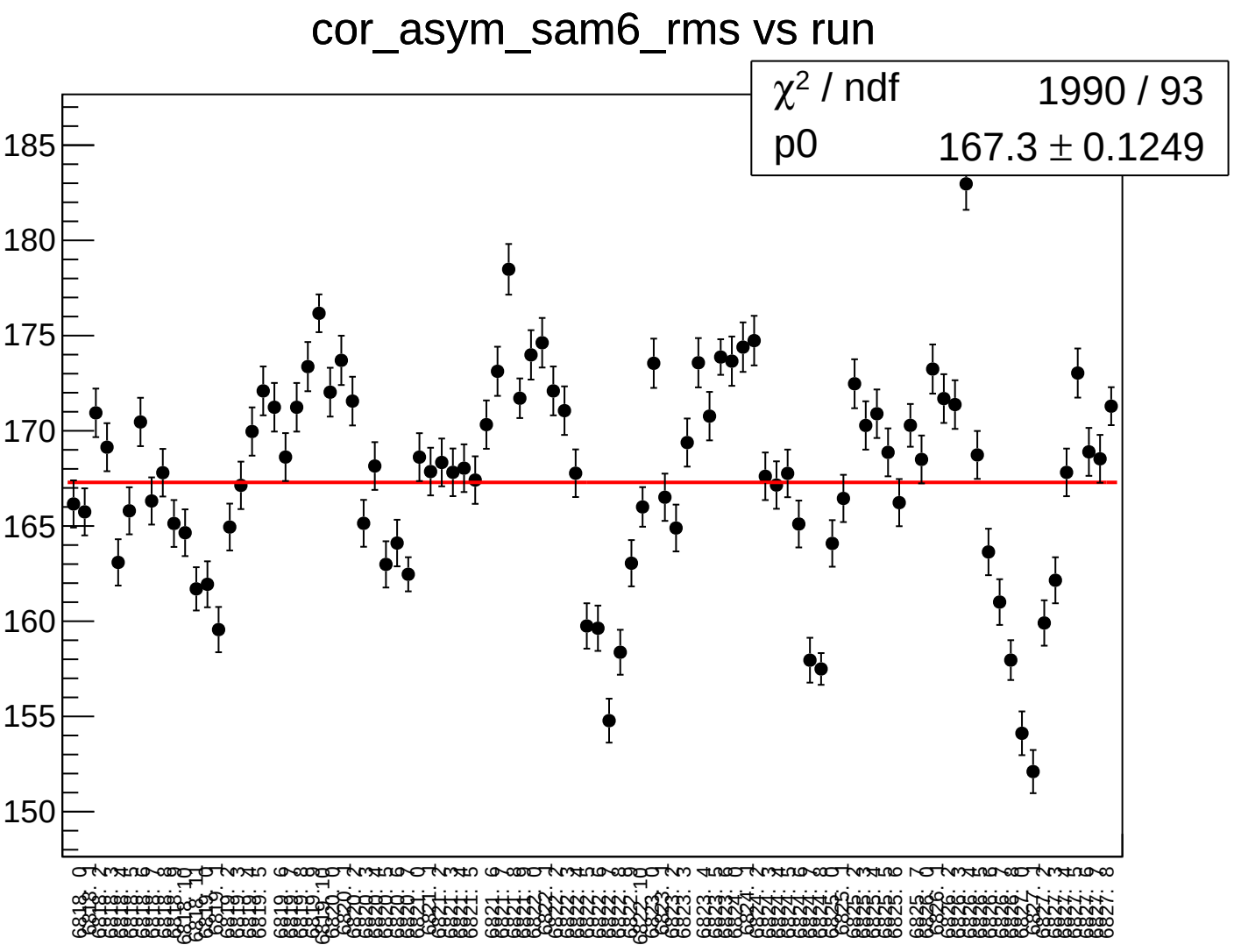

reg_asym_sam6_rms vs run
χ² / ndf 1990 / 93
p0 167.3 ± 0.1249
185
180
175
170
165
160
155
150

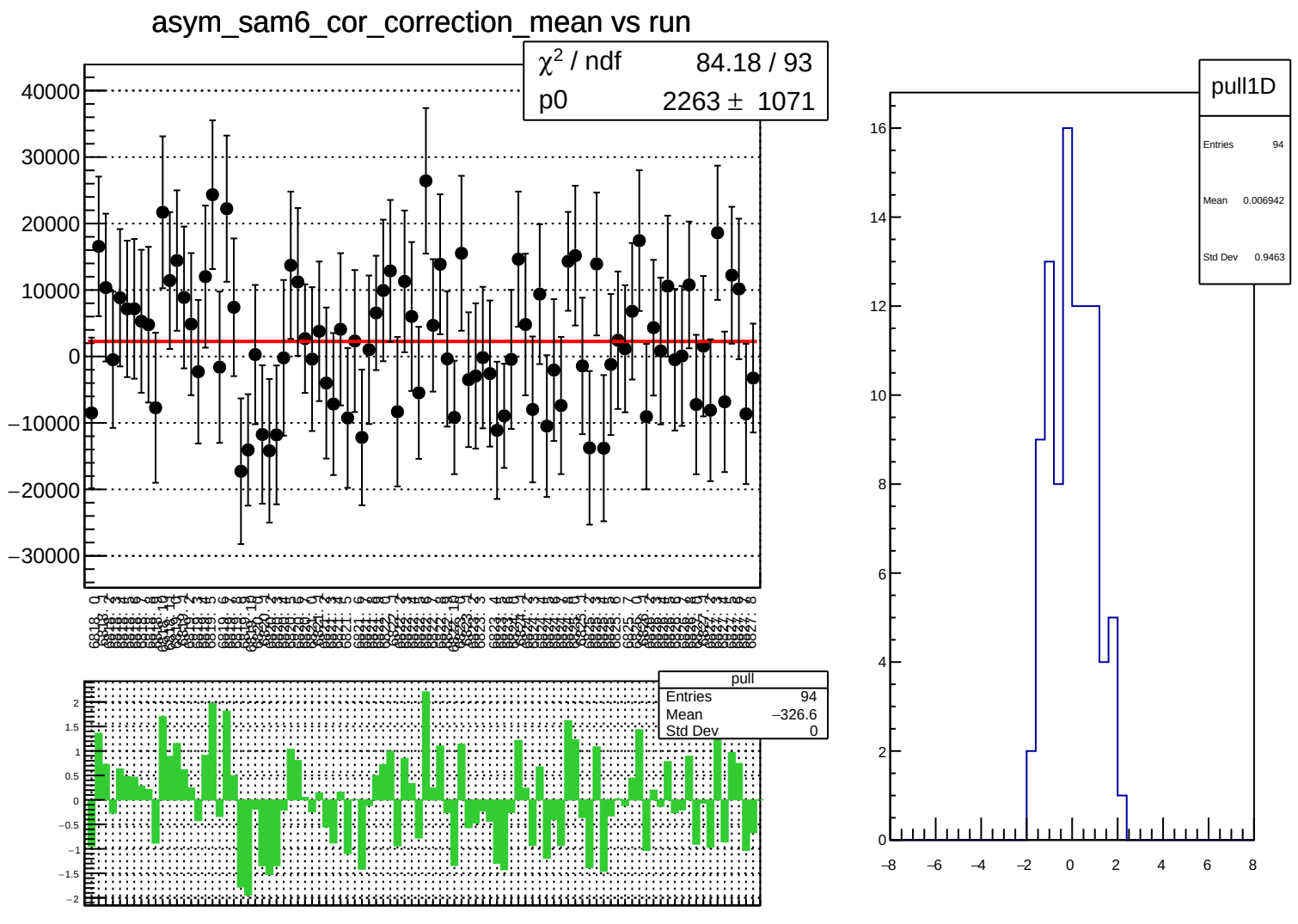

asym_sam6_reg_correction_mean vs run
χ² / ndf 84.18 / 93
p0 2263 ± 1071
pull
Entries 94
Mean −326.6
Std Dev 0
pull1D
Entries 94
Mean 0.006942
Std Dev 0.9463

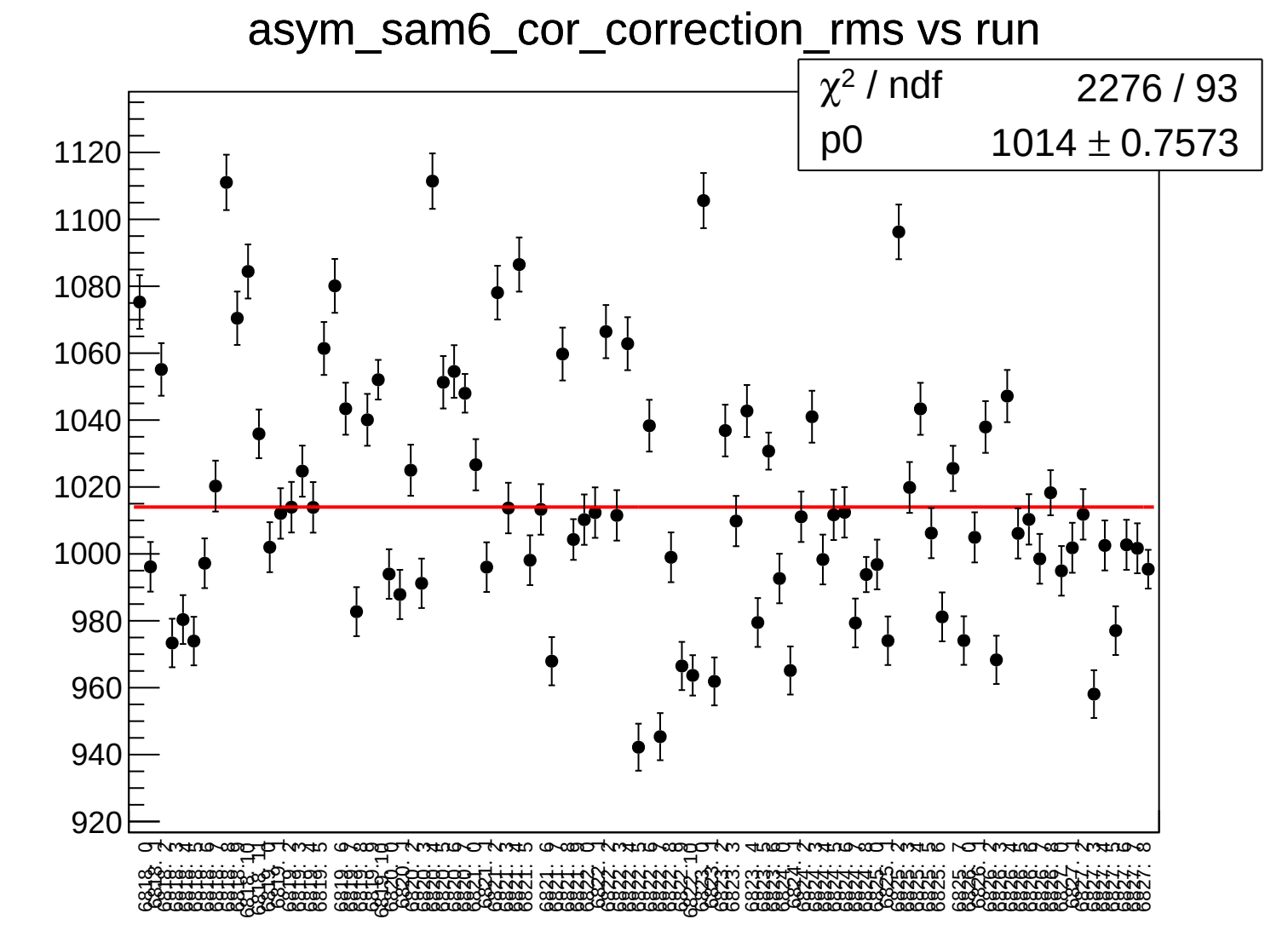

asym_sam6_reg_correction_rms vs run
χ² / ndf 2276 / 93
p0 1014 ± 0.7573
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

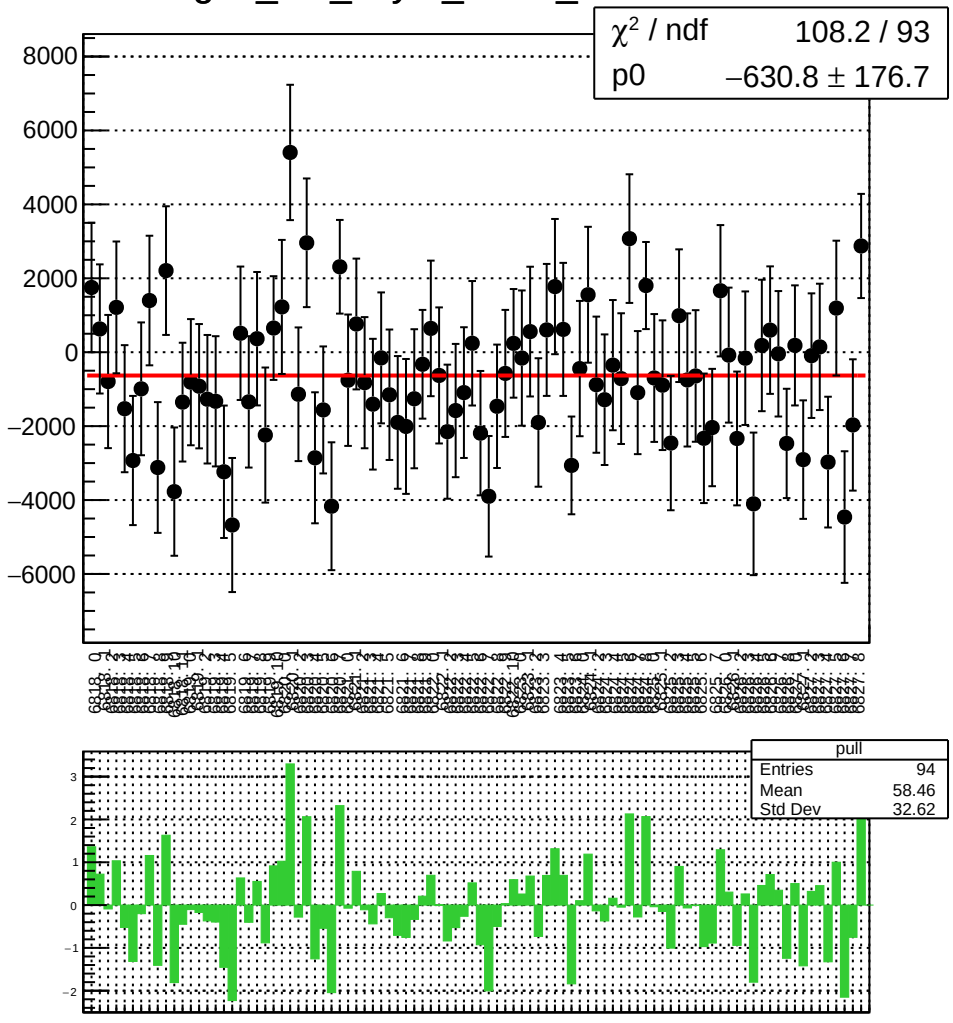

cor_asym_sam6_mean vs run
χ² / ndf 108.2 / 93
p0 −630.8 ± 176.7
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 58.46
Std Dev 32.62
3
2
1
0
−1
−2

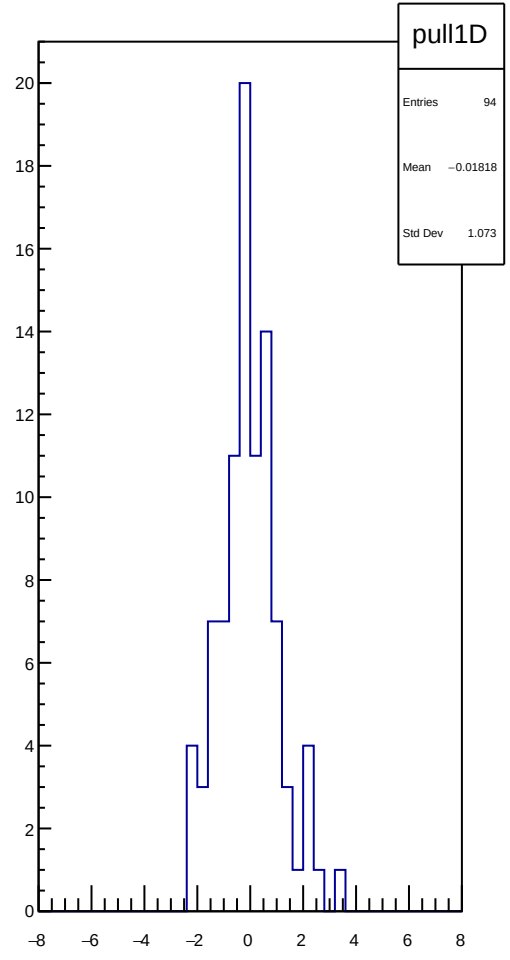

pull1D
Entries 94
Mean −0.01818
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

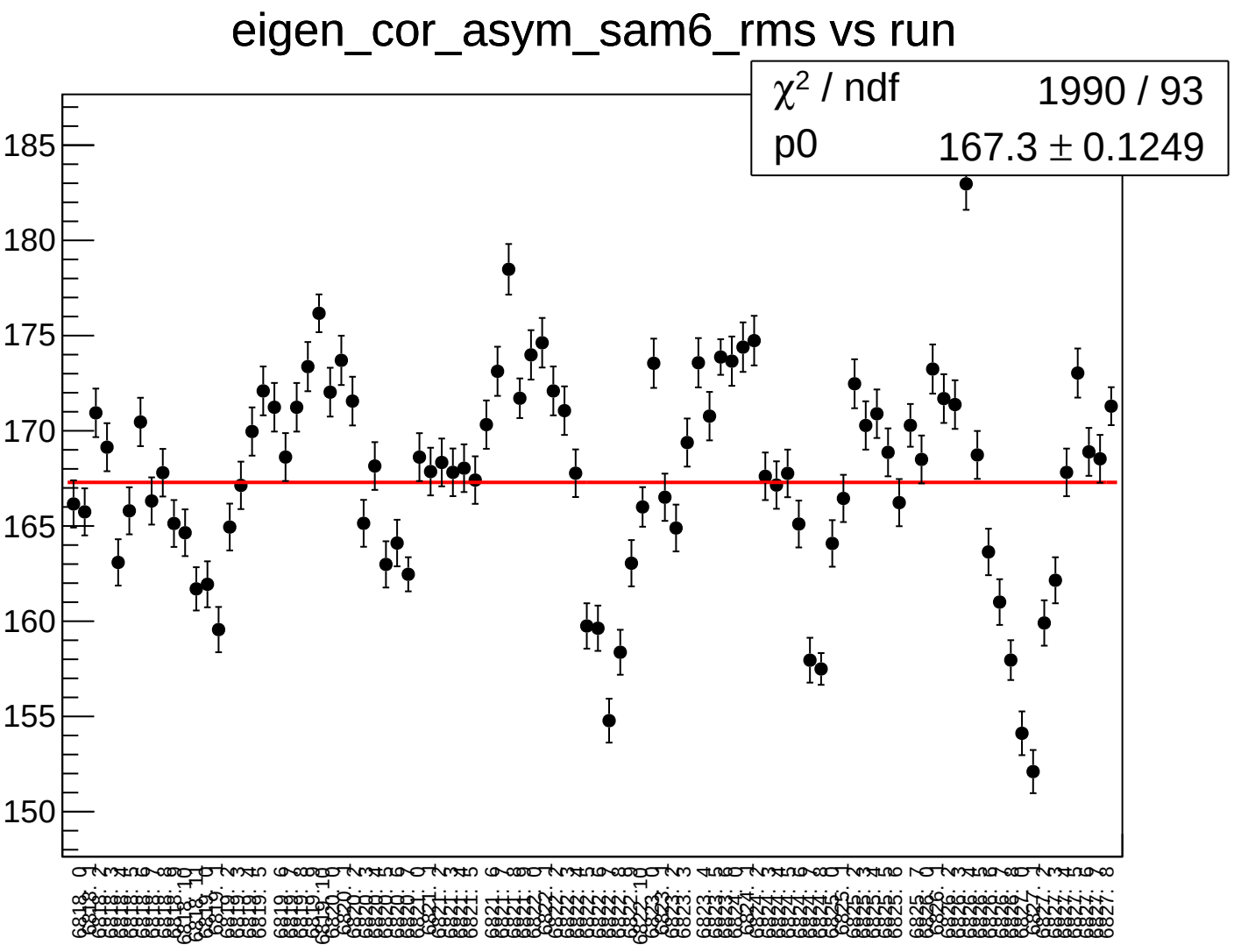

cor_asym_sam6_rms vs run
χ² / ndf 1990 / 93
p0 167.3 ± 0.1249
185
180
175
170
165
160
155
150

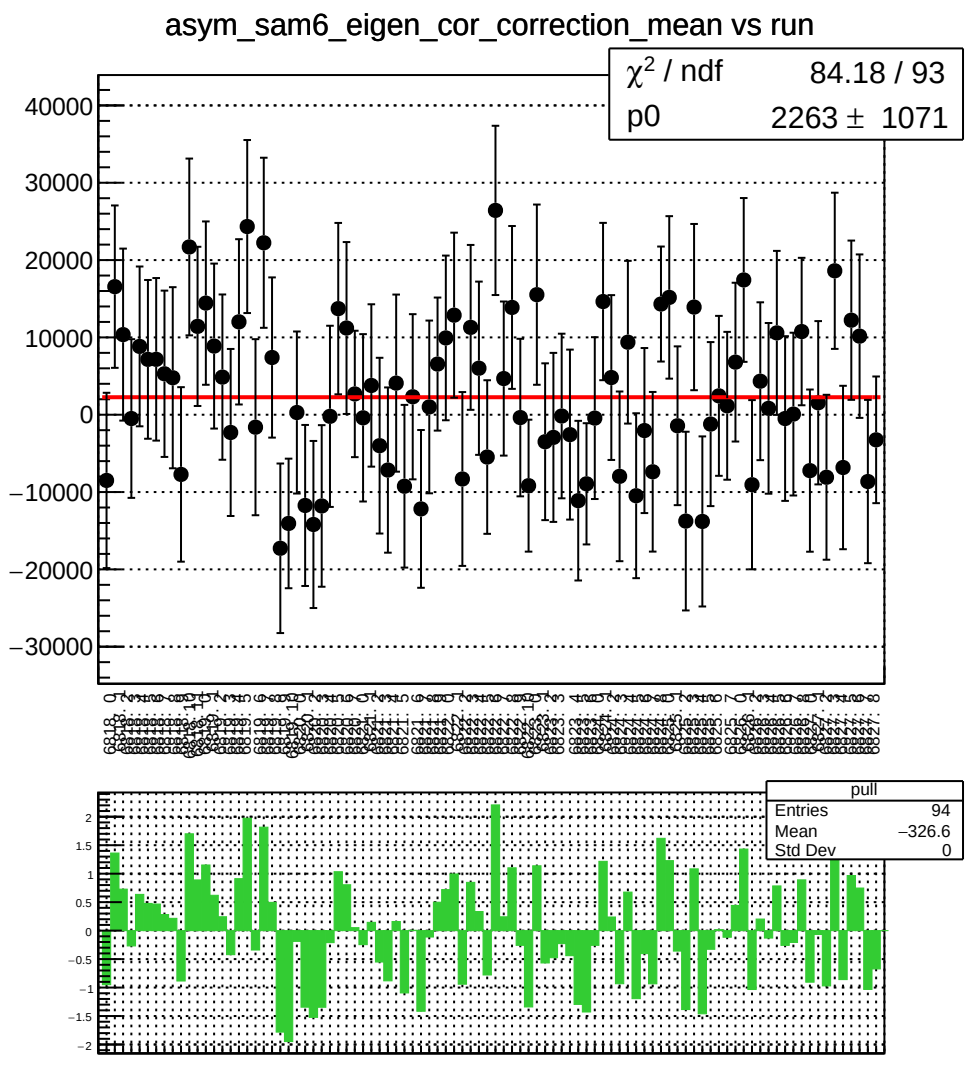

asym_sam6_cor_correction_mean vs run
χ² / ndf 84.18 / 93
p0 2263 ± 1071
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −326.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.006942
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

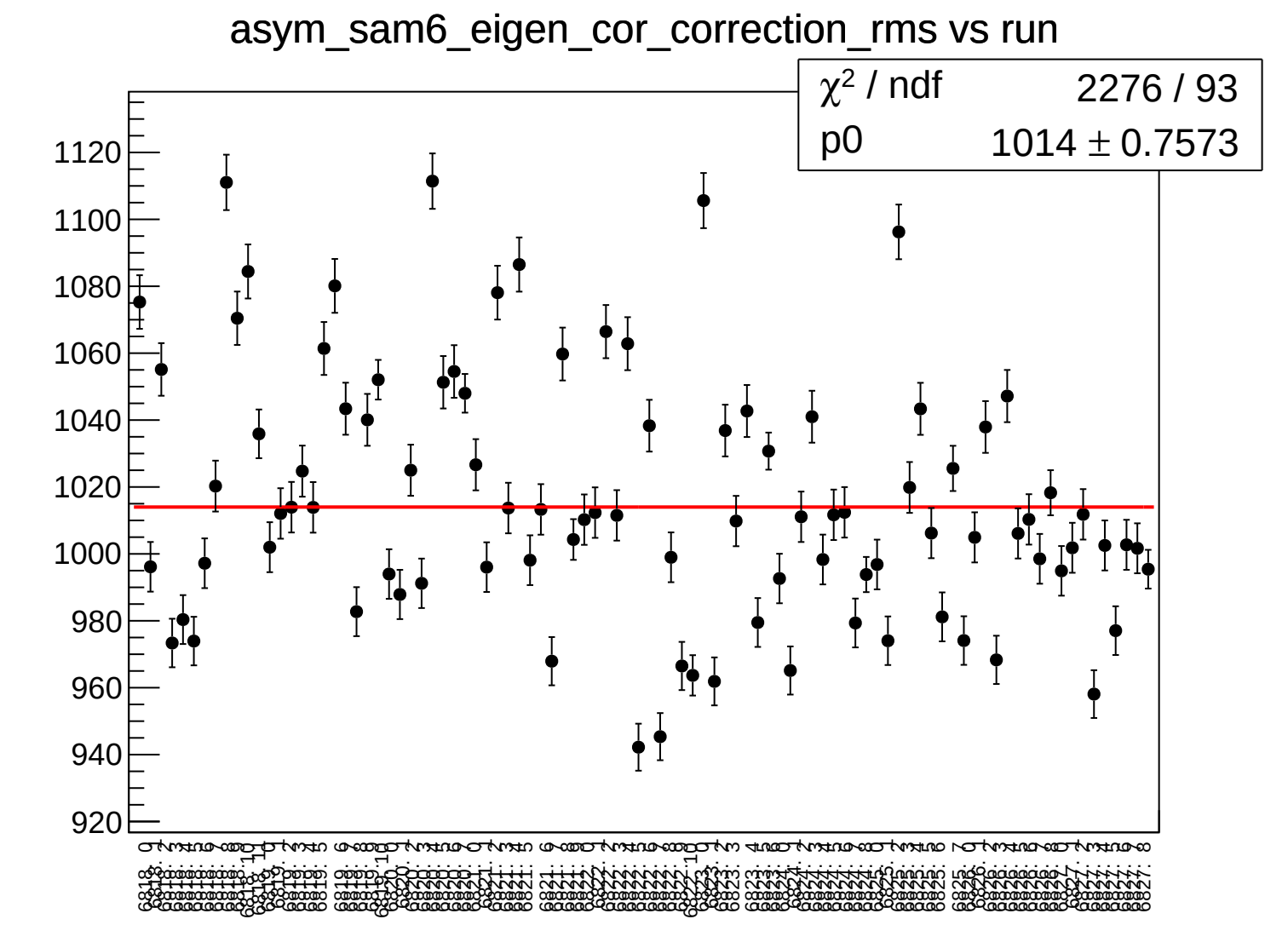

asym_sam6_cor_correction_rms vs run
χ² / ndf 2276 / 93
p0 1014 ± 0.7573
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

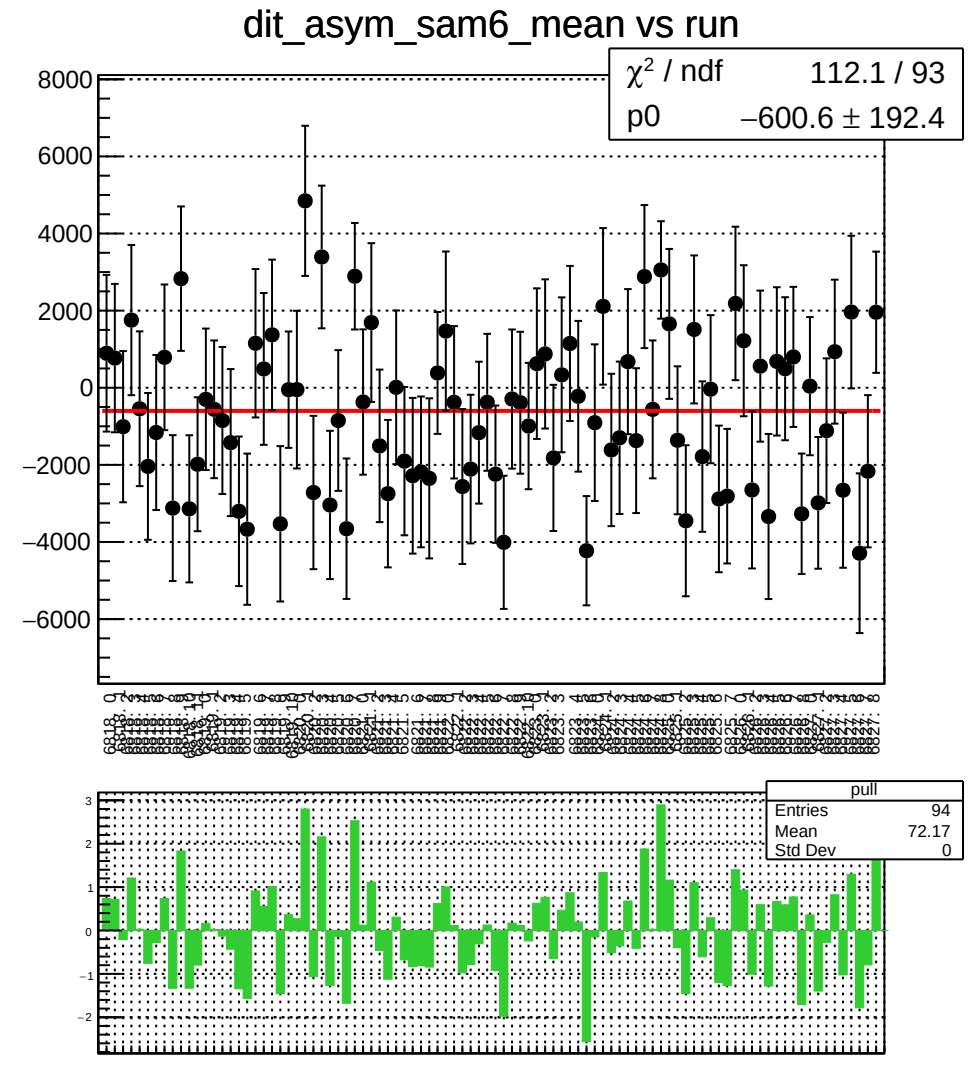

eigen_cor_asym_sam6_mean vs run
χ² / ndf 108.2 / 93
p0 −630.8 ± 176.7
pull
Entries 94
Mean 58.46
Std Dev 32.62

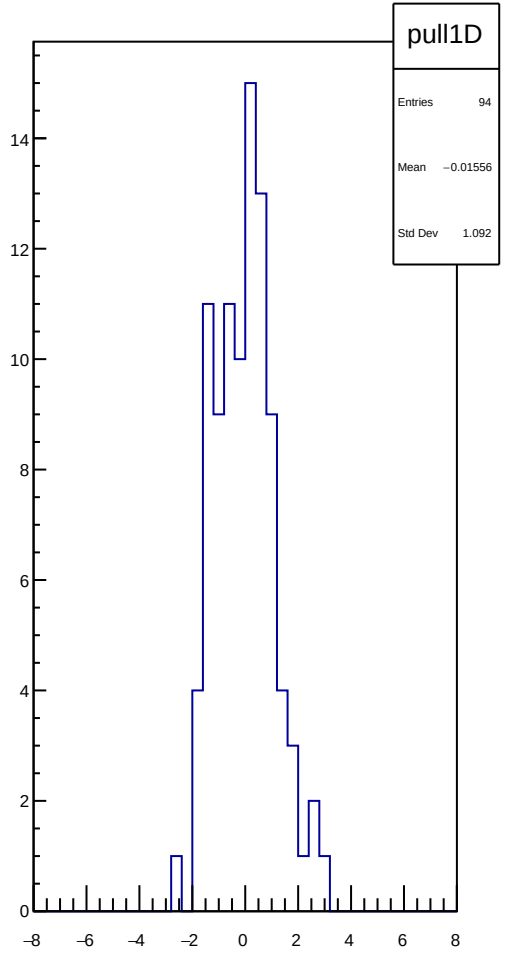

pull1D
Entries 94
Mean −0.01818
Std Dev 1.073

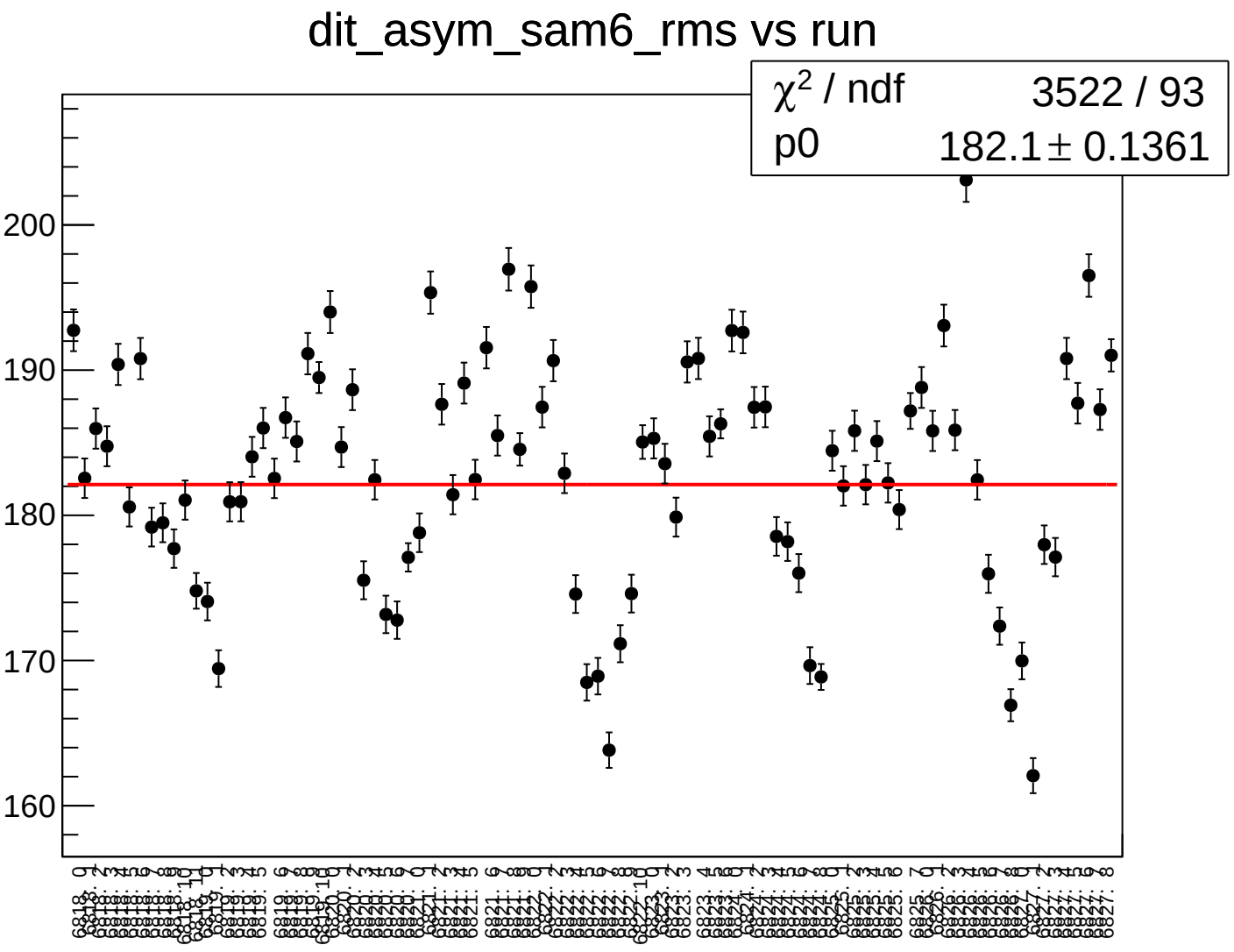

eigen_cor_asym_sam6_rms vs run
χ² / ndf 1990 / 93
p0 167.3 ± 0.1249
185
180
175
170
165
160
155
150

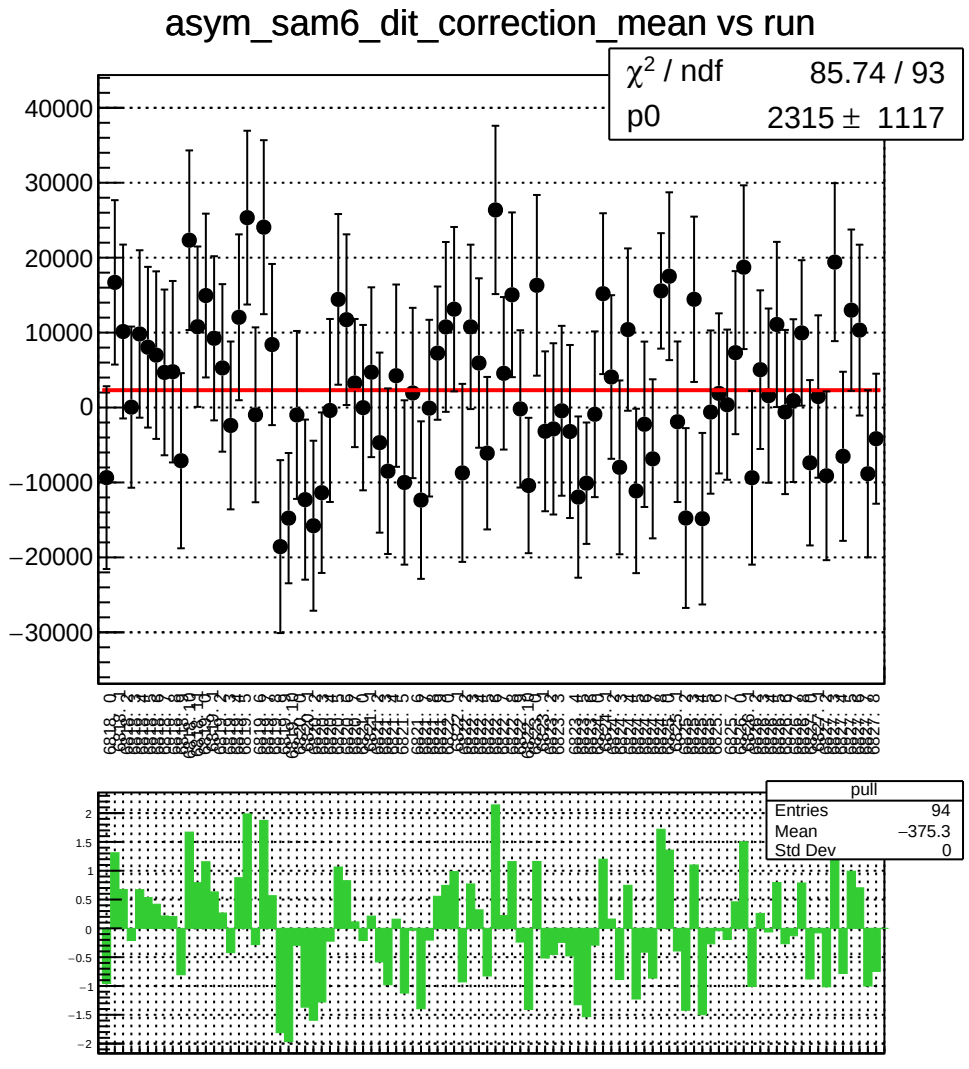

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 84.18 / 93
p0 2263 ± 1071
pull
Entries 94
Mean −326.6
Std Dev 0
pull1D
Entries 94
Mean 0.006942
Std Dev 0.9463

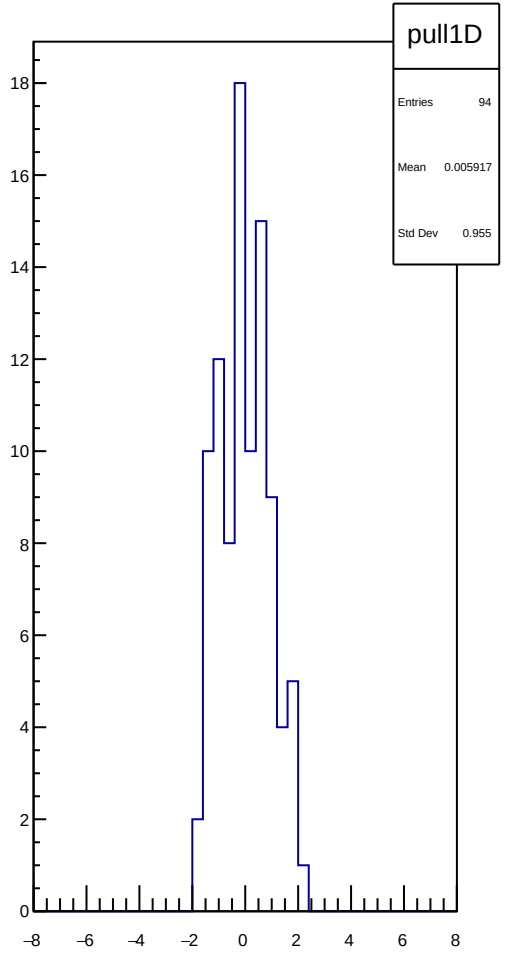

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 2276 / 93
p0 1014 ± 0.7573
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

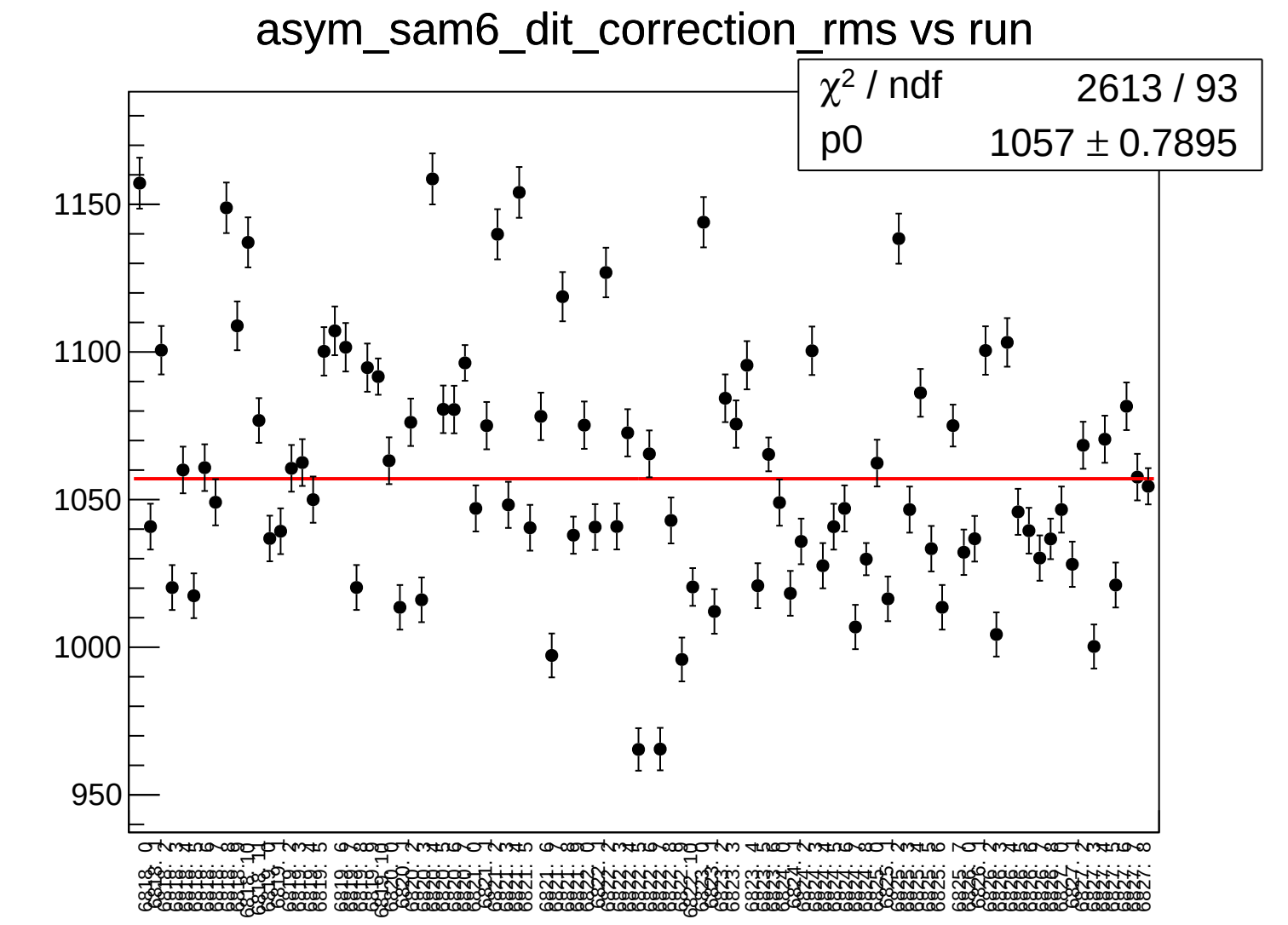

dit_asym_sam6_mean vs run
χ² / ndf 112.1 / 93
p0 −600.6 ± 192.4
pull
Entries 94
Mean 72.17
Std Dev 0

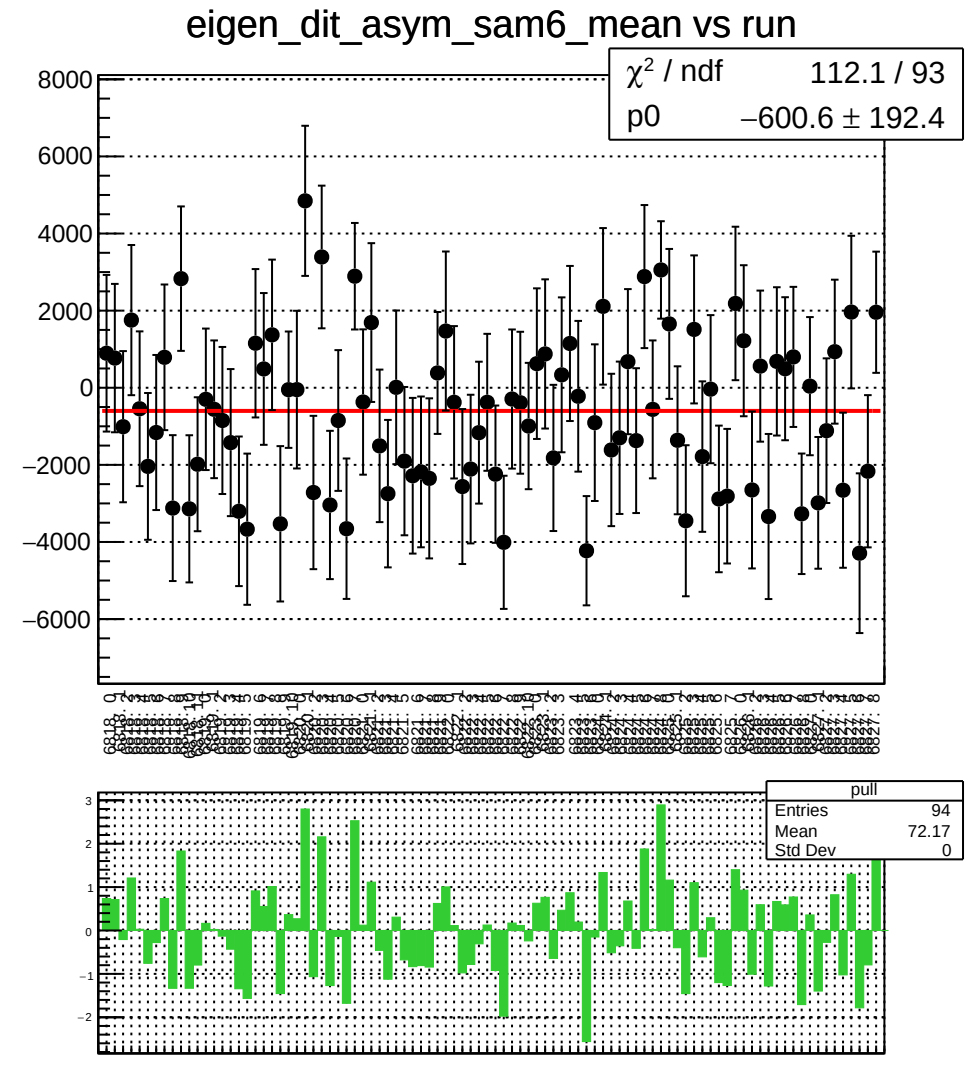

pull1D
Entries 94
Mean −0.01556
Std Dev 1.092

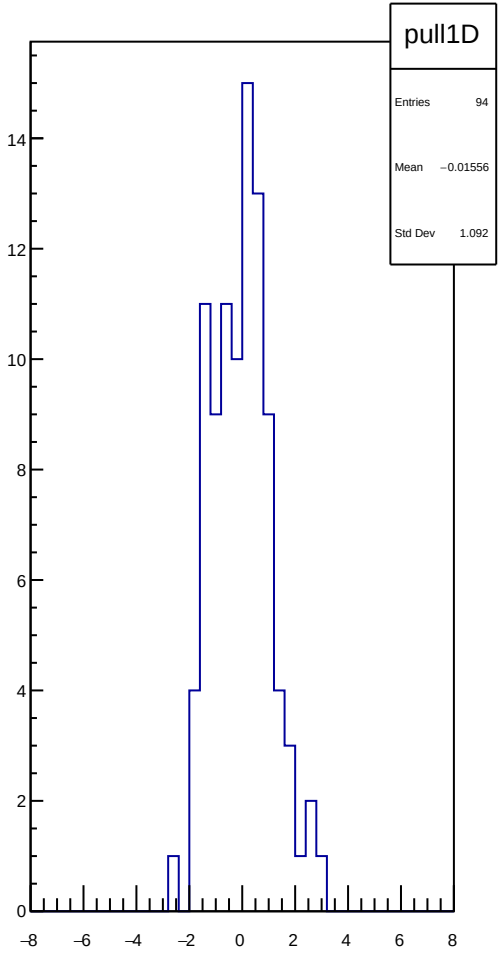

dit_asym_sam6_rms vs run
χ² / ndf 3522 / 93
p0 182.1 ± 0.1361
200
190
180
170
160

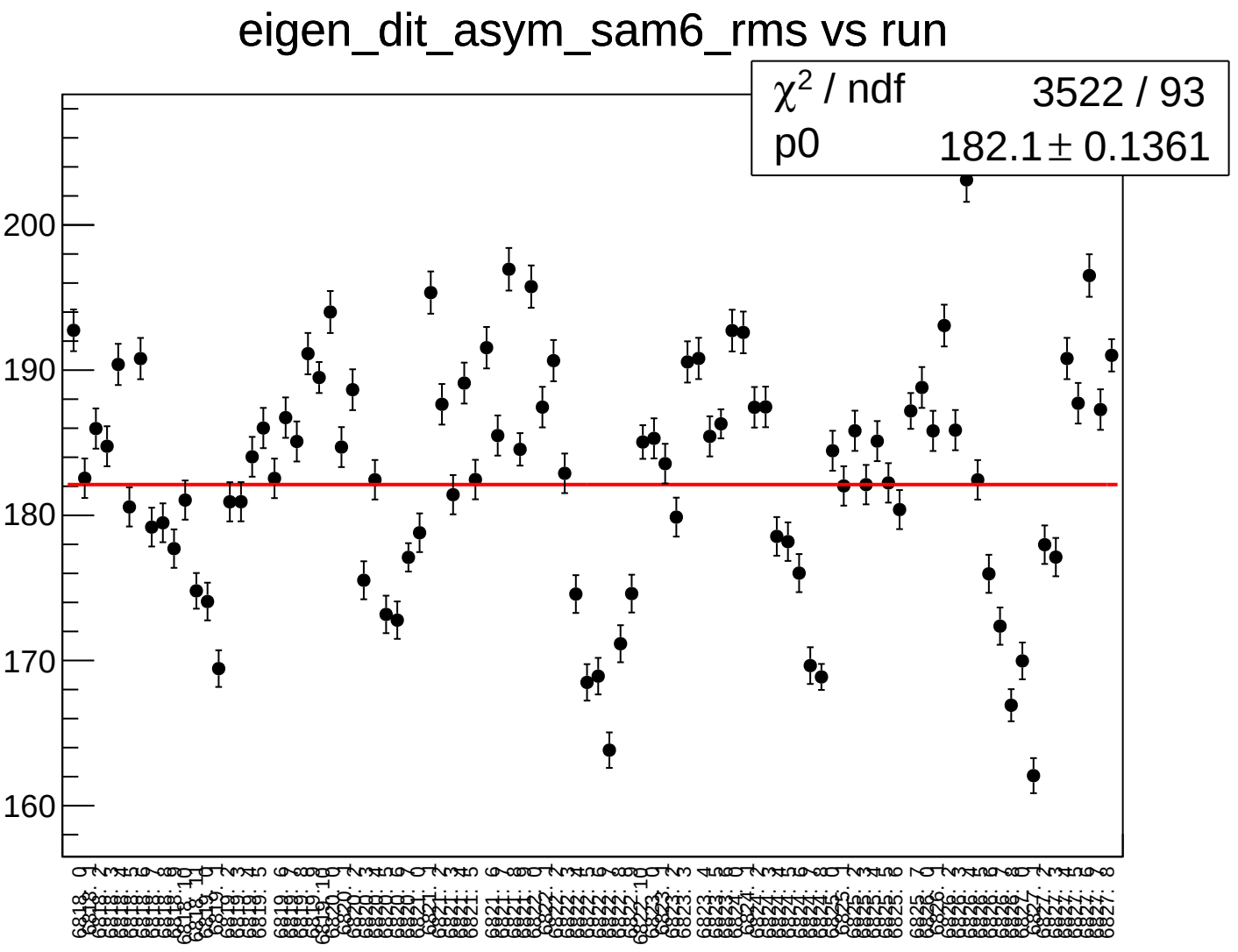

asym_sam6_dit_correction_mean vs run
χ² / ndf 85.74 / 93
p0 2315 ± 1117
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −375.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

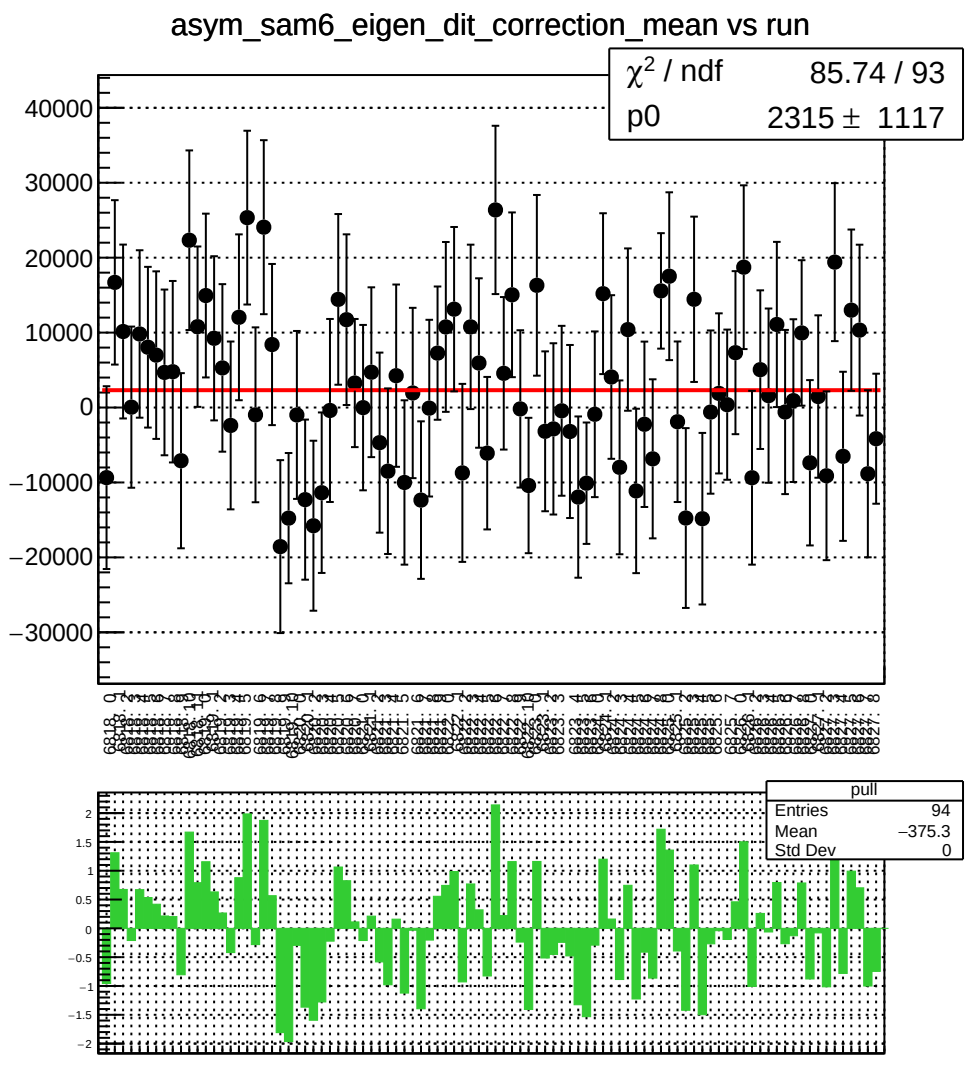

pull1D
Entries 94
Mean 0.005917
Std Dev 0.955
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

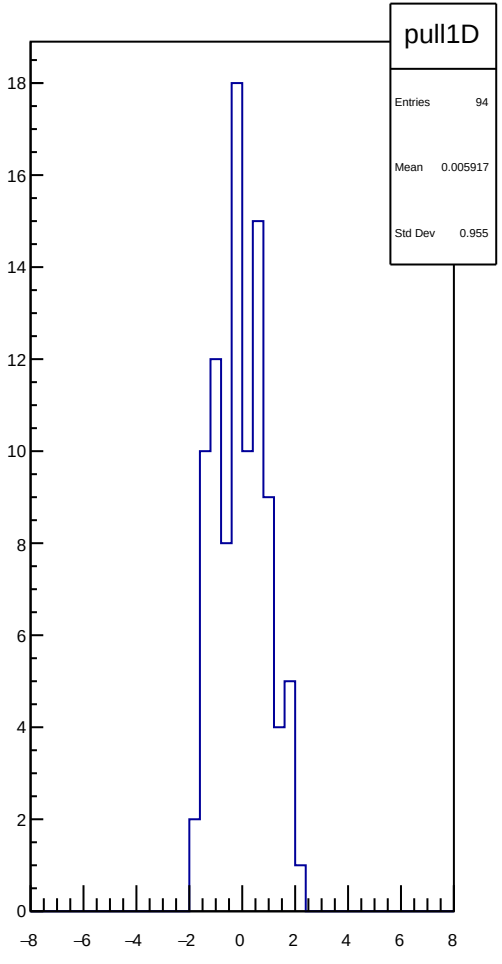

asym_sam6_dit_correction_rms vs run
χ² / ndf 2613 / 93
p0 1057 ± 0.7895
1150
1100
1050
1000
950

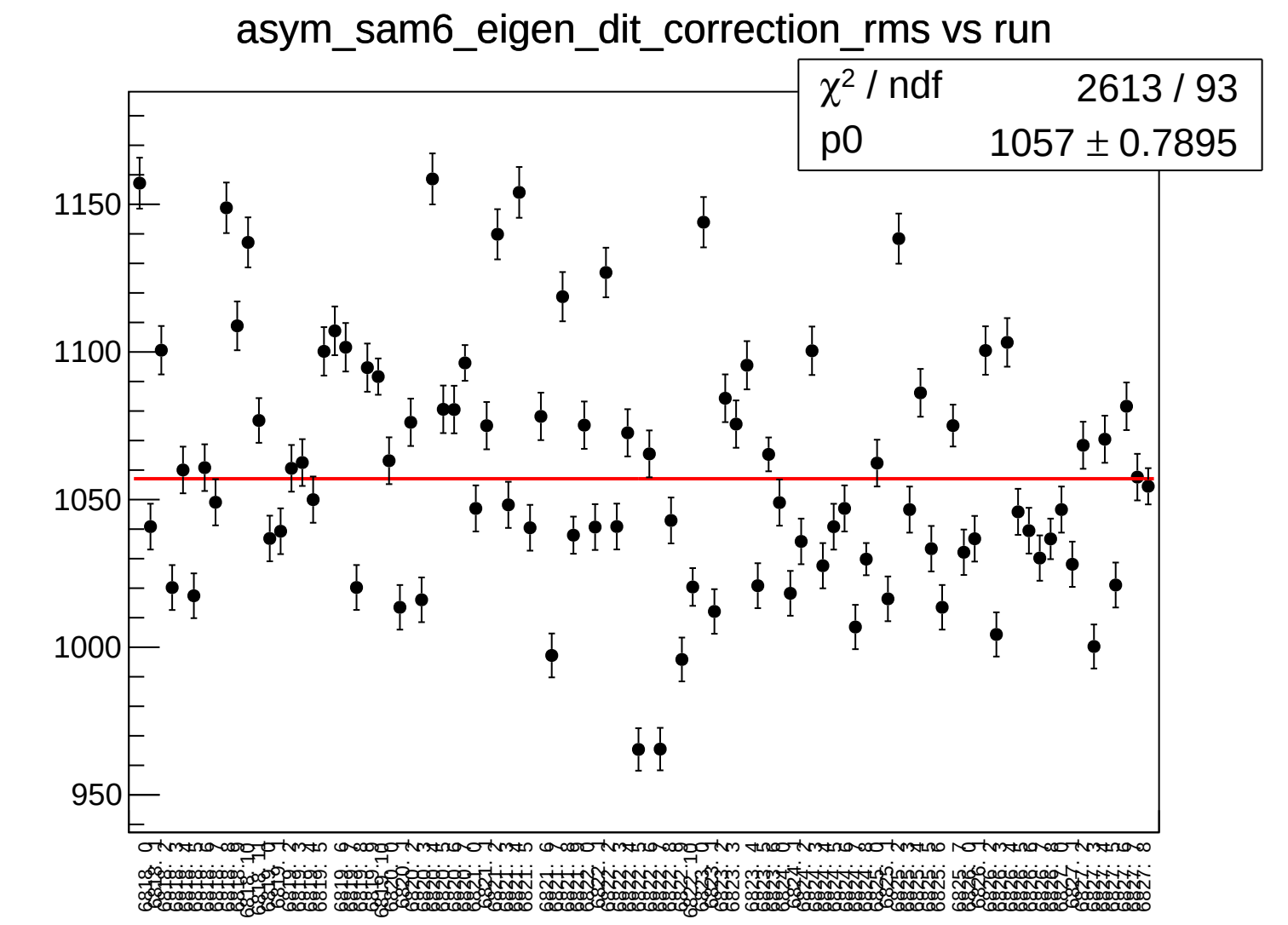

eigen_dit_asym_sam6_mean vs run
χ² / ndf 112.1 / 93
p0 −600.6 ± 192.4
pull
Entries 94
Mean 72.17
Std Dev 0

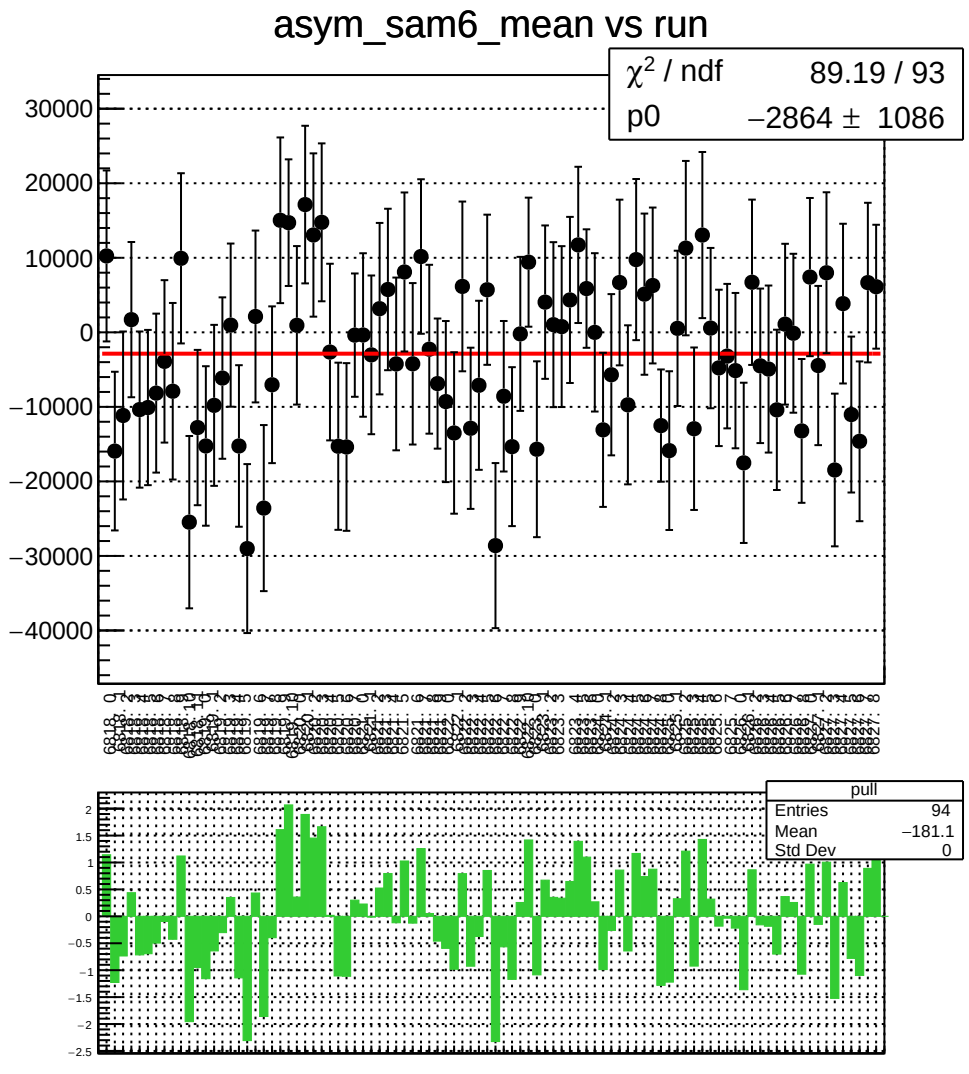

pull1D
Entries 94
Mean −0.01556
Std Dev 1.092

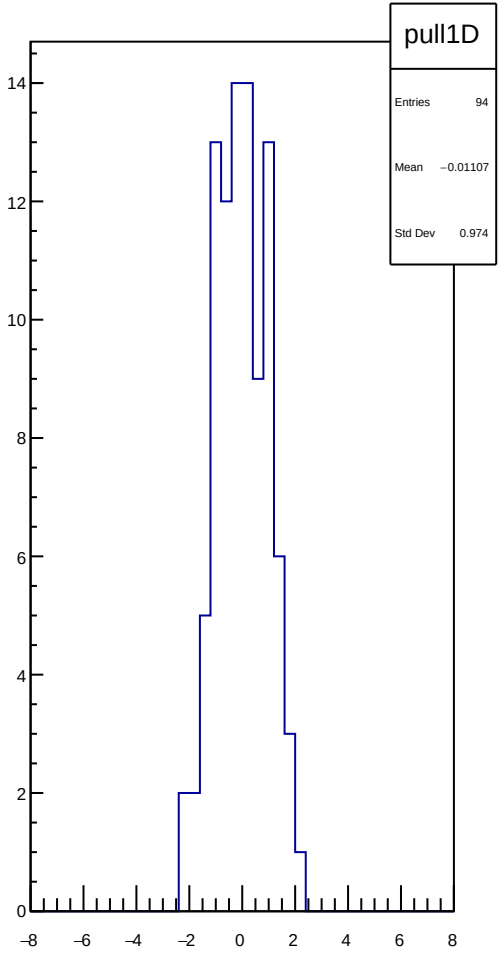

eigen_dit_asym_sam6_rms vs run
χ² / ndf 3522 / 93
p0 182.1 ± 0.1361
200
190
180
170
160

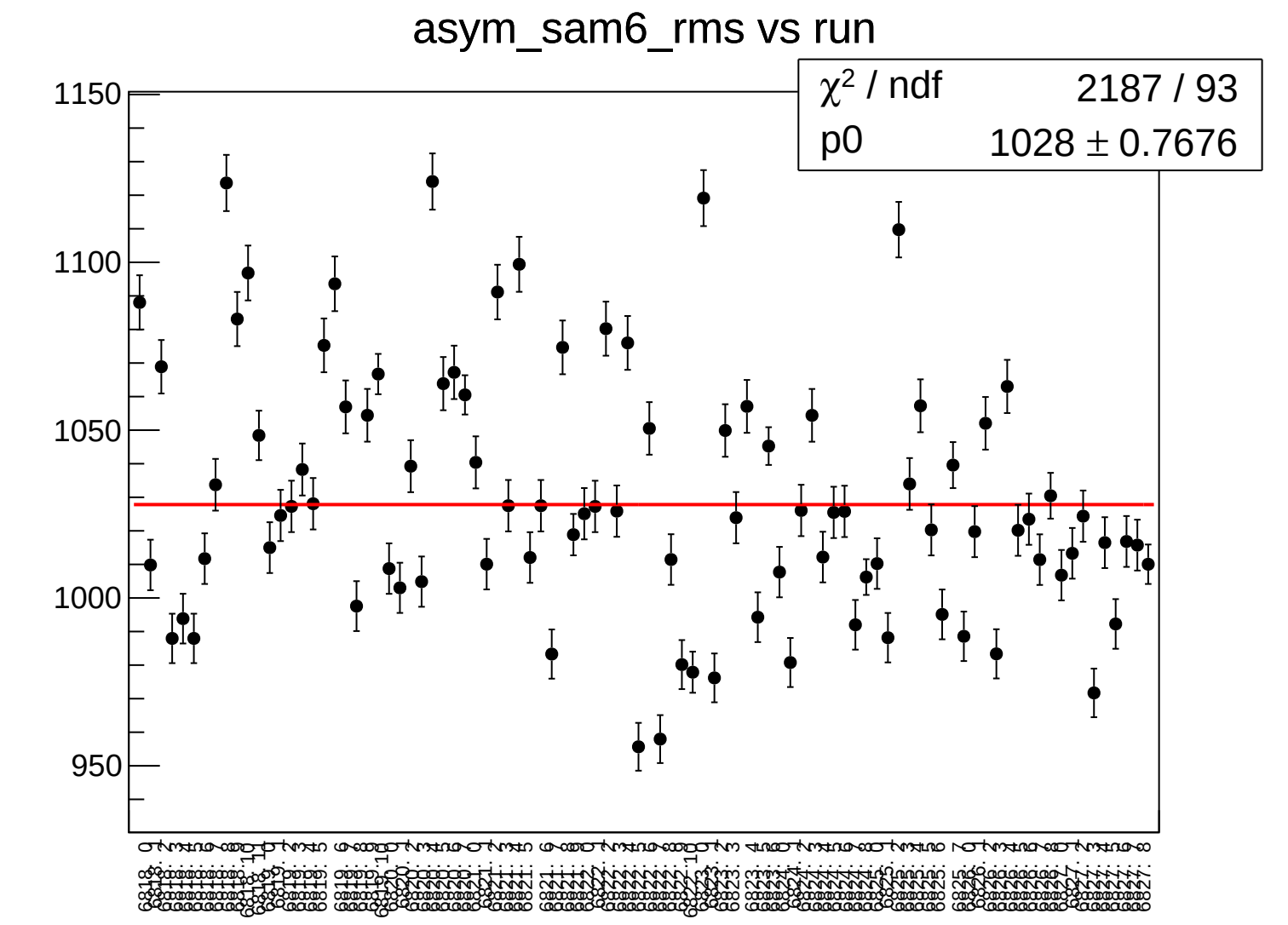

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 85.74 / 93
p0 2315 ± 1117
pull
Entries 94
Mean −375.3
Std Dev 0

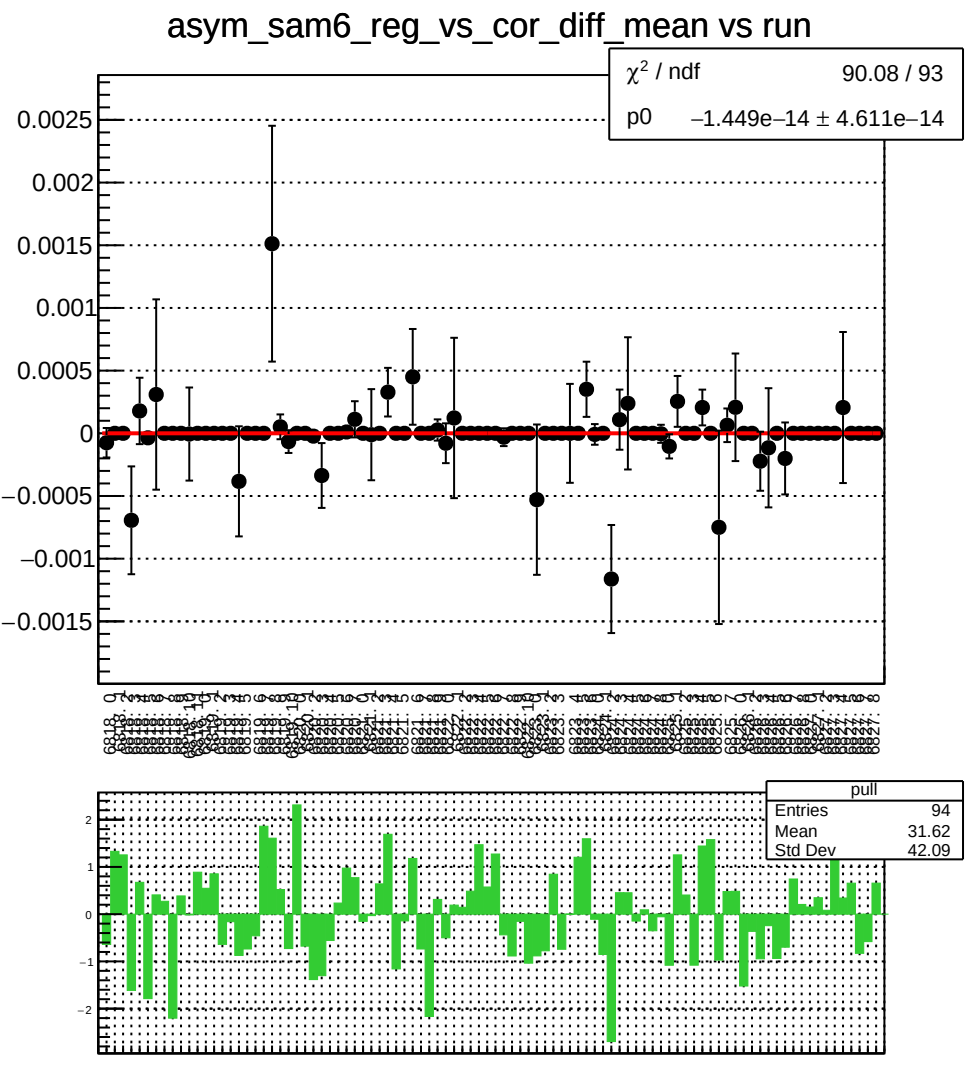

pull1D
Entries 94
Mean 0.005917
Std Dev 0.955

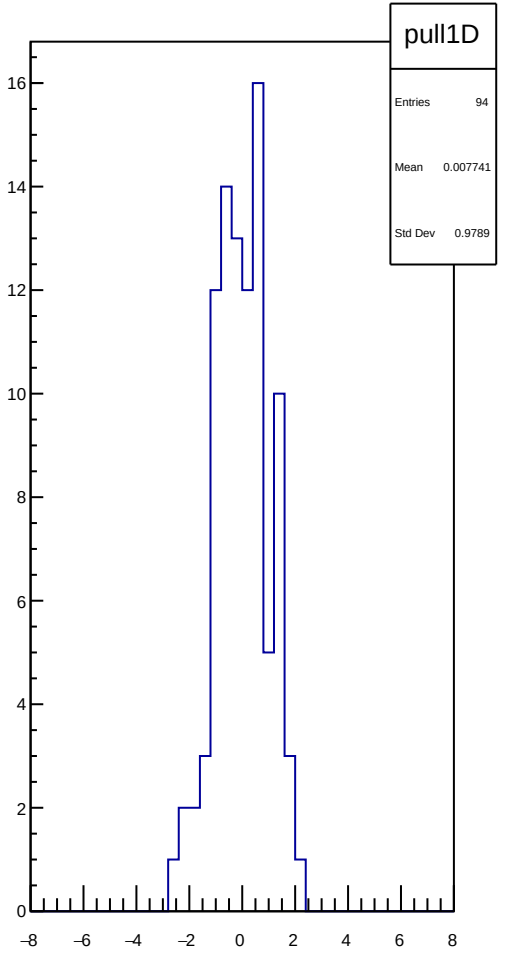

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 2613 / 93
p0 1057 ± 0.7895
1150
1100
1050
1000
950

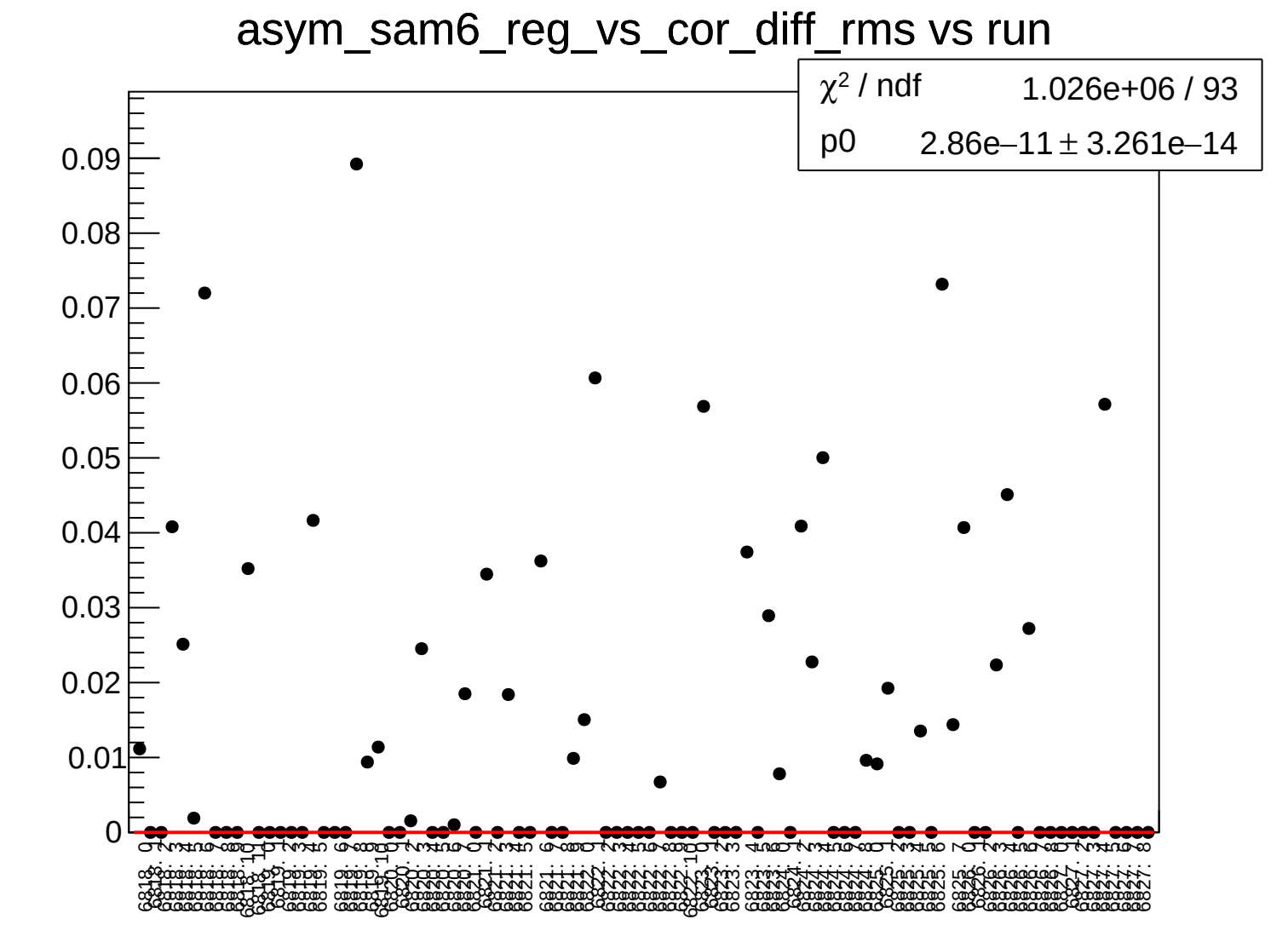

asym_sam6_mean vs run
χ² / ndf 89.19 / 93
p0 −2864 ± 1086
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 94
Mean −181.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

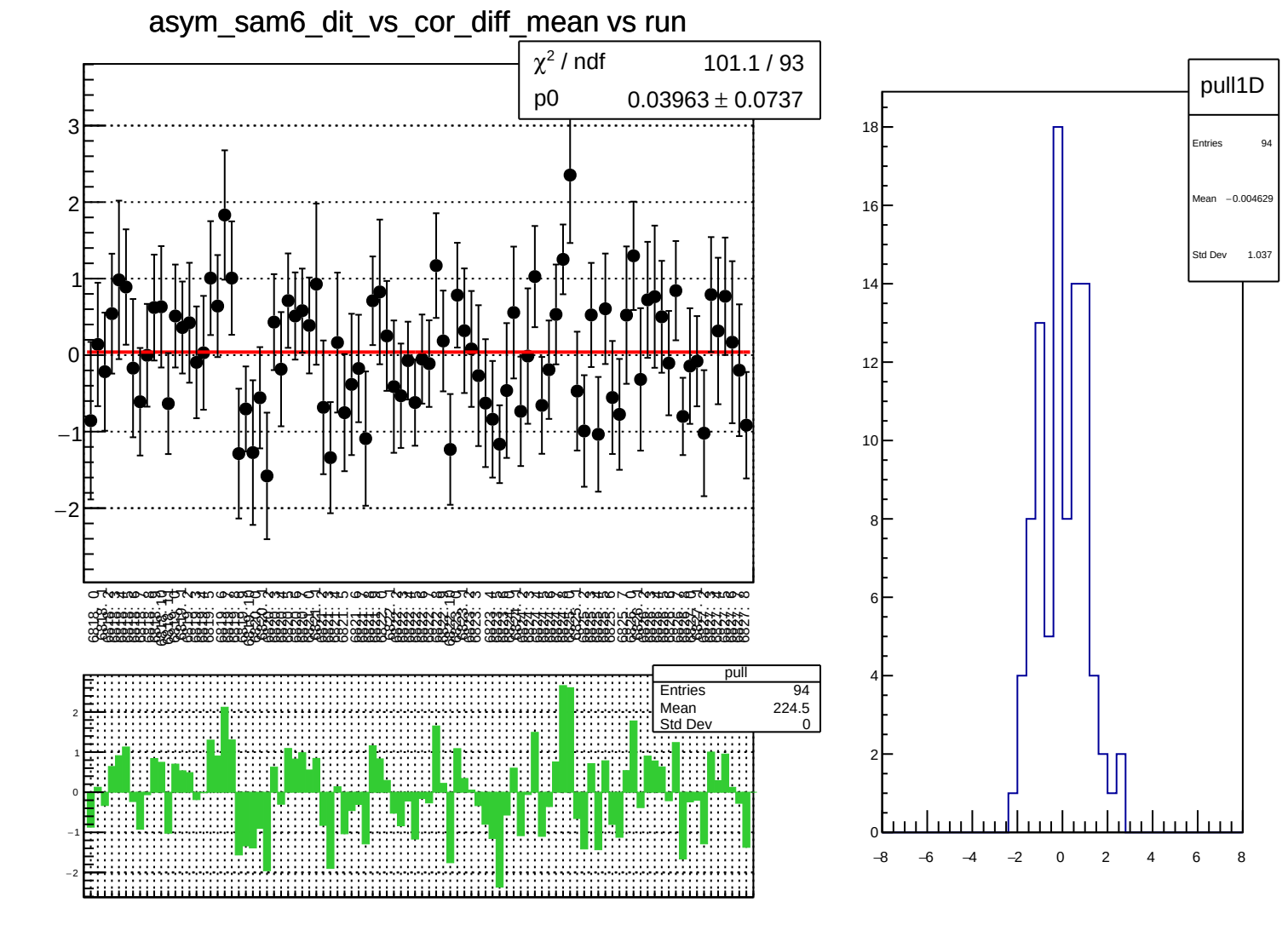

pull1D
Entries 94
Mean −0.01107
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

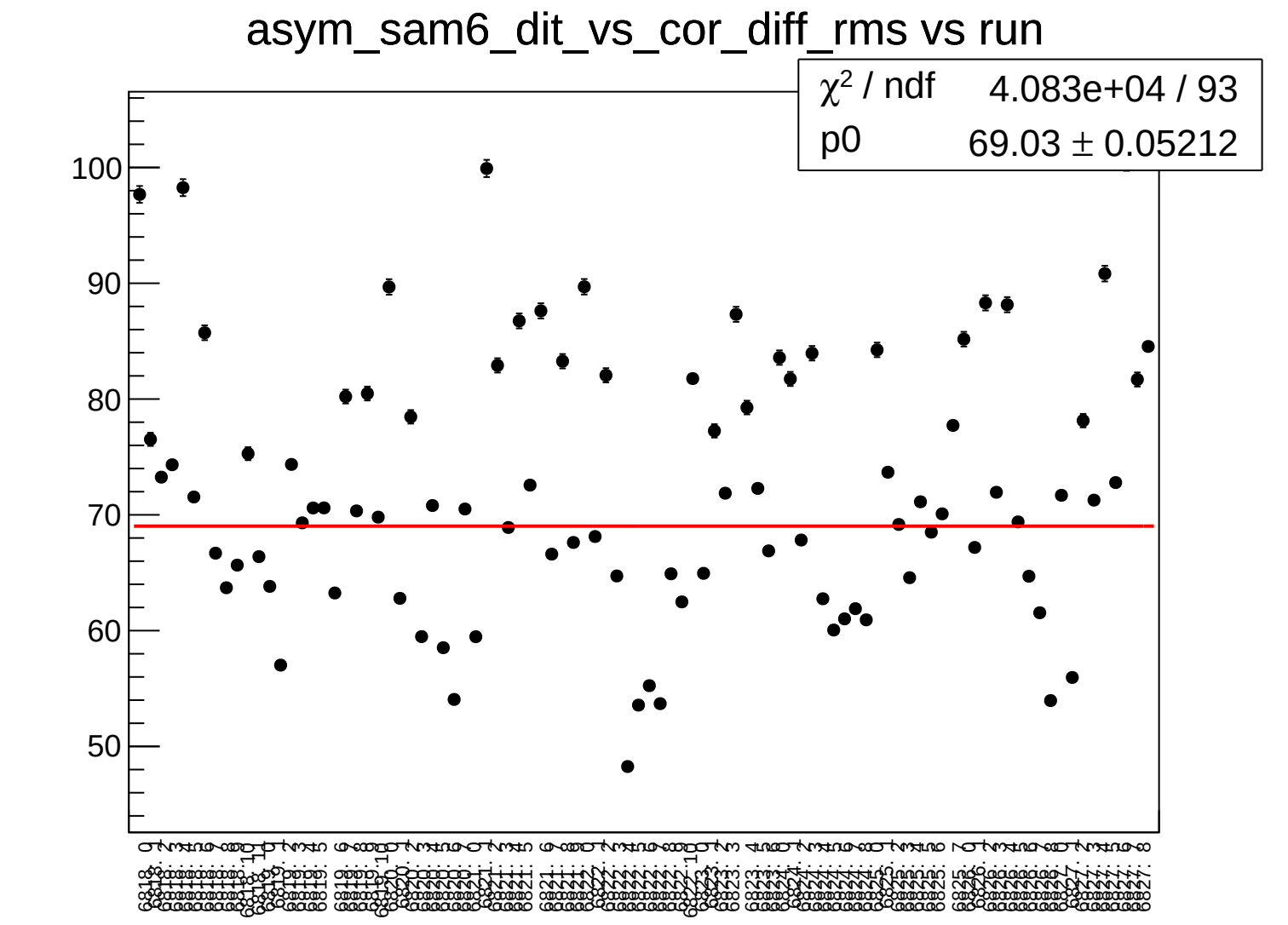

asym_sam6_rms vs run
χ² / ndf 2187 / 93
p0 1028 ± 0.7676
1150
1100
1050
1000
950

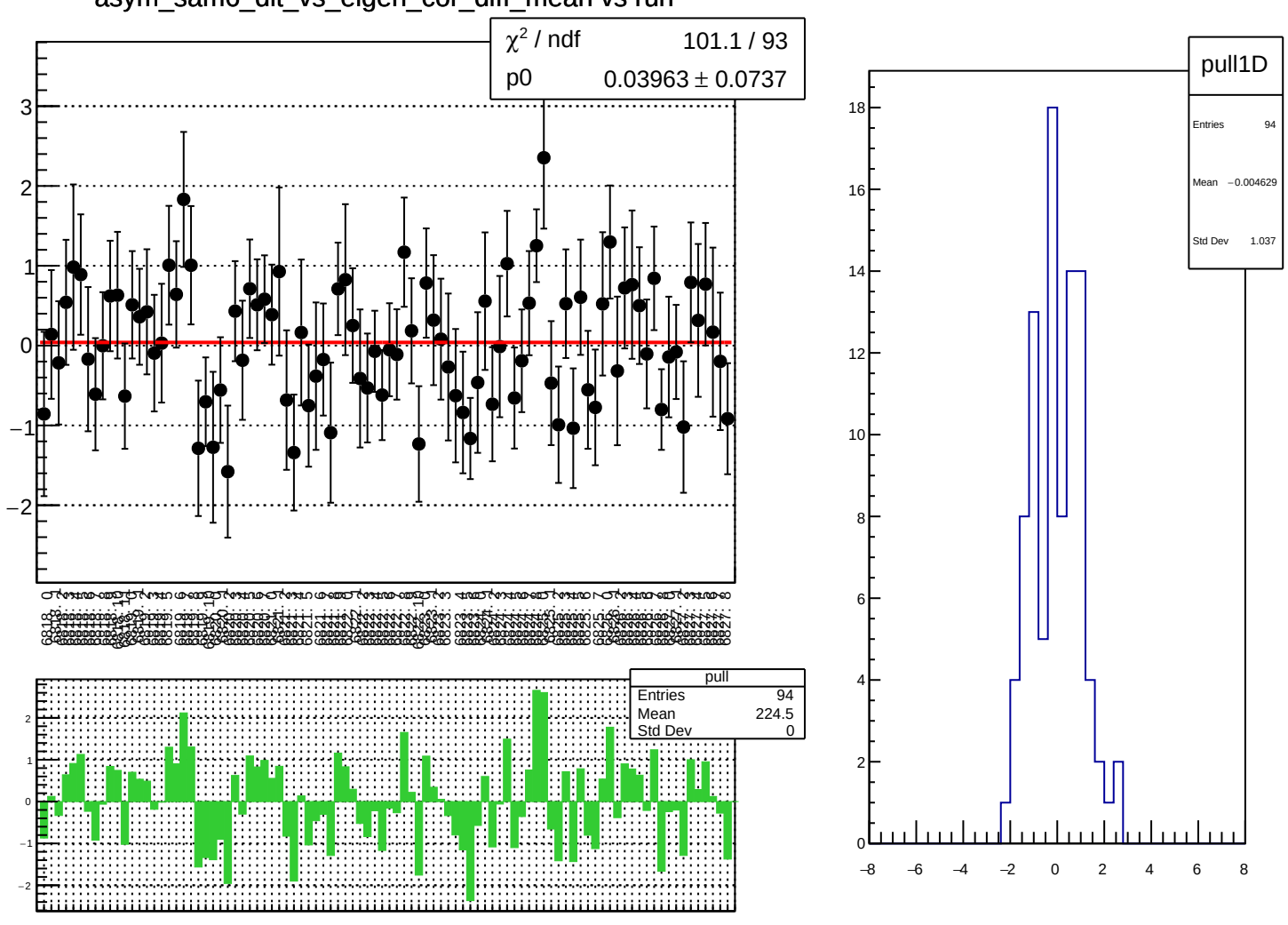

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 90.08 / 93
p0 −1.449e−14 ± 4.611e−14
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 31.62
Std Dev 42.09
2
1
0
−1
−2

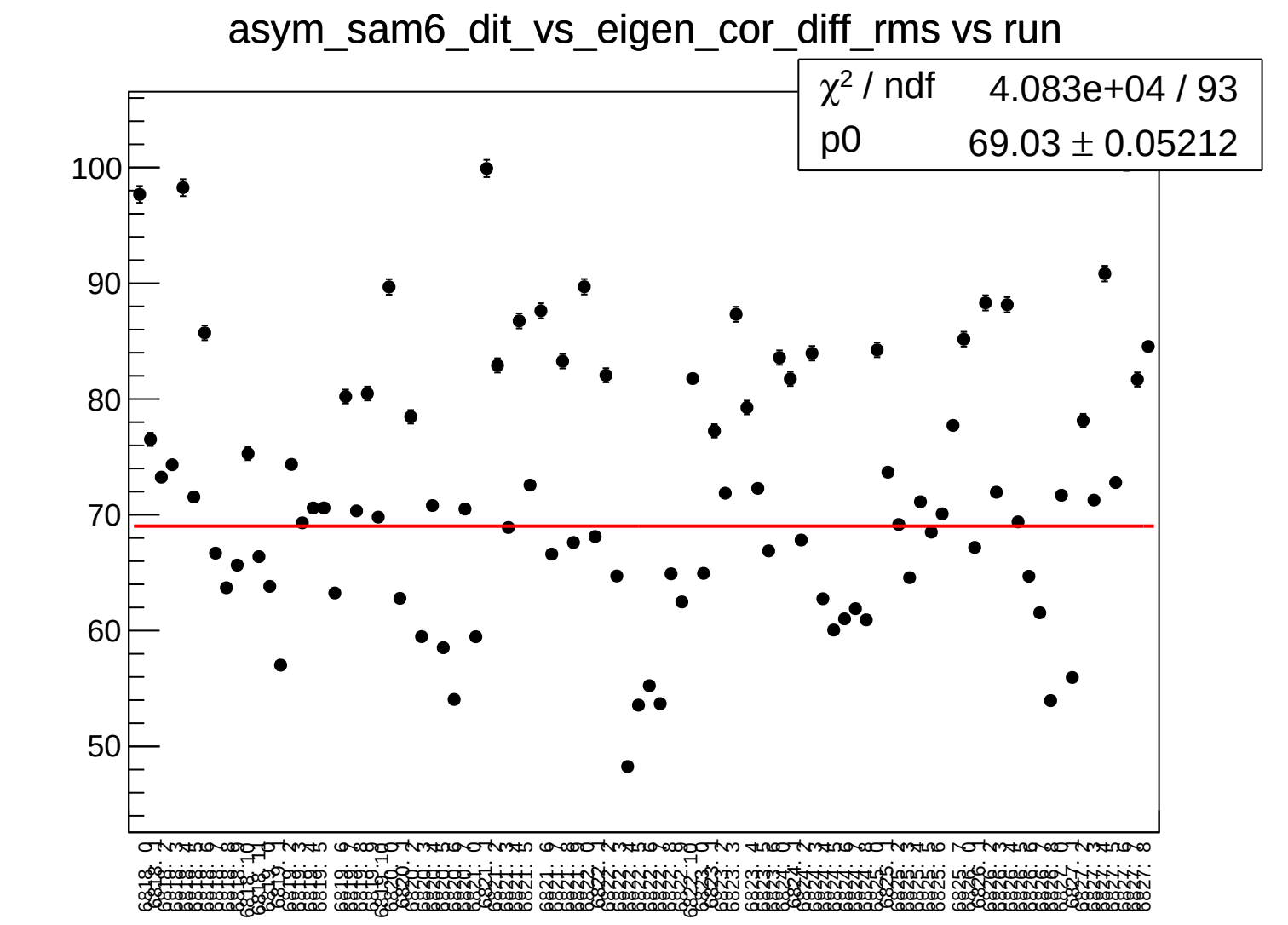

pull1D
Entries 94
Mean 0.007741
Std Dev 0.9789
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

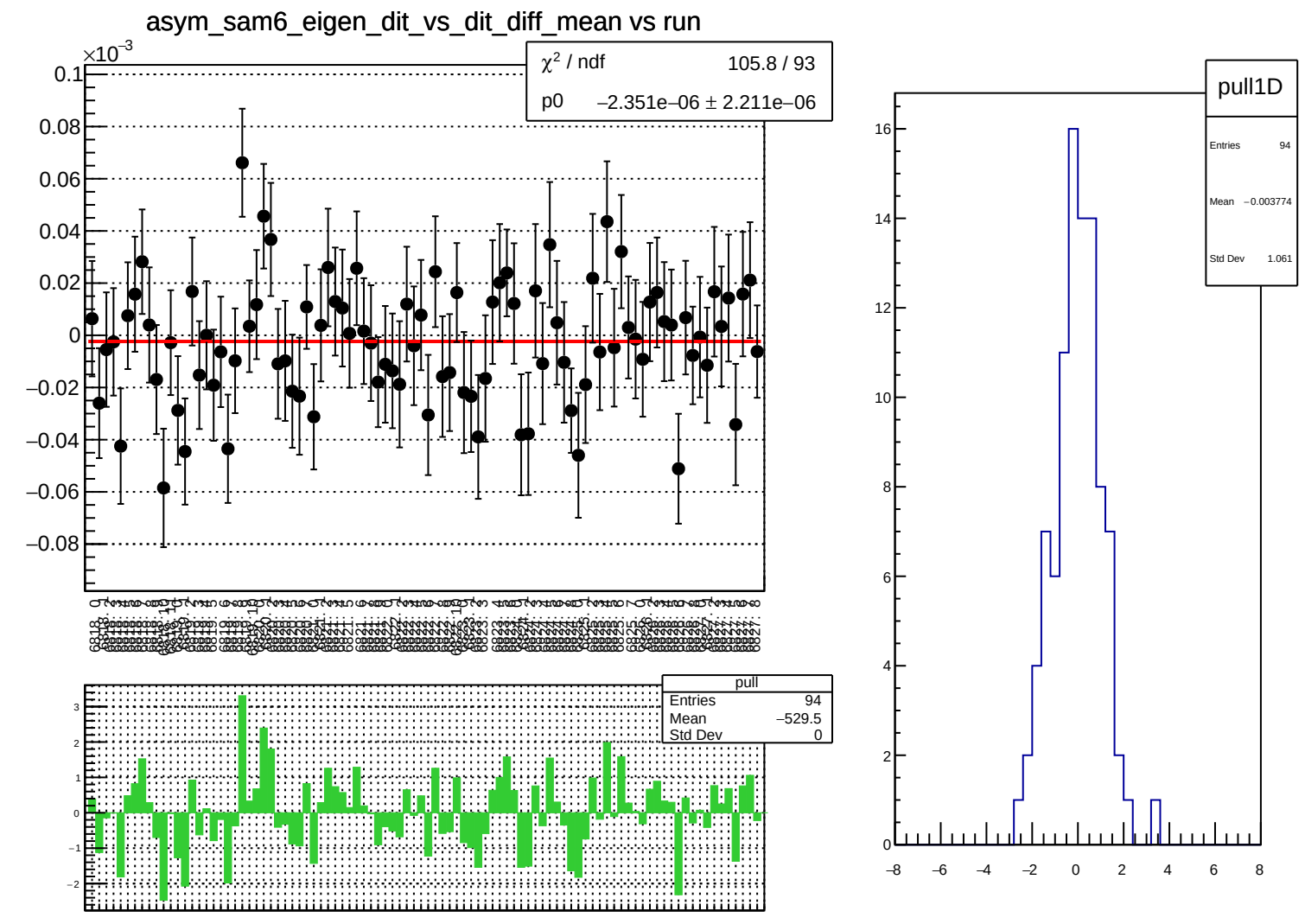

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 93
p0 2.86e−11 ± 3.261e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

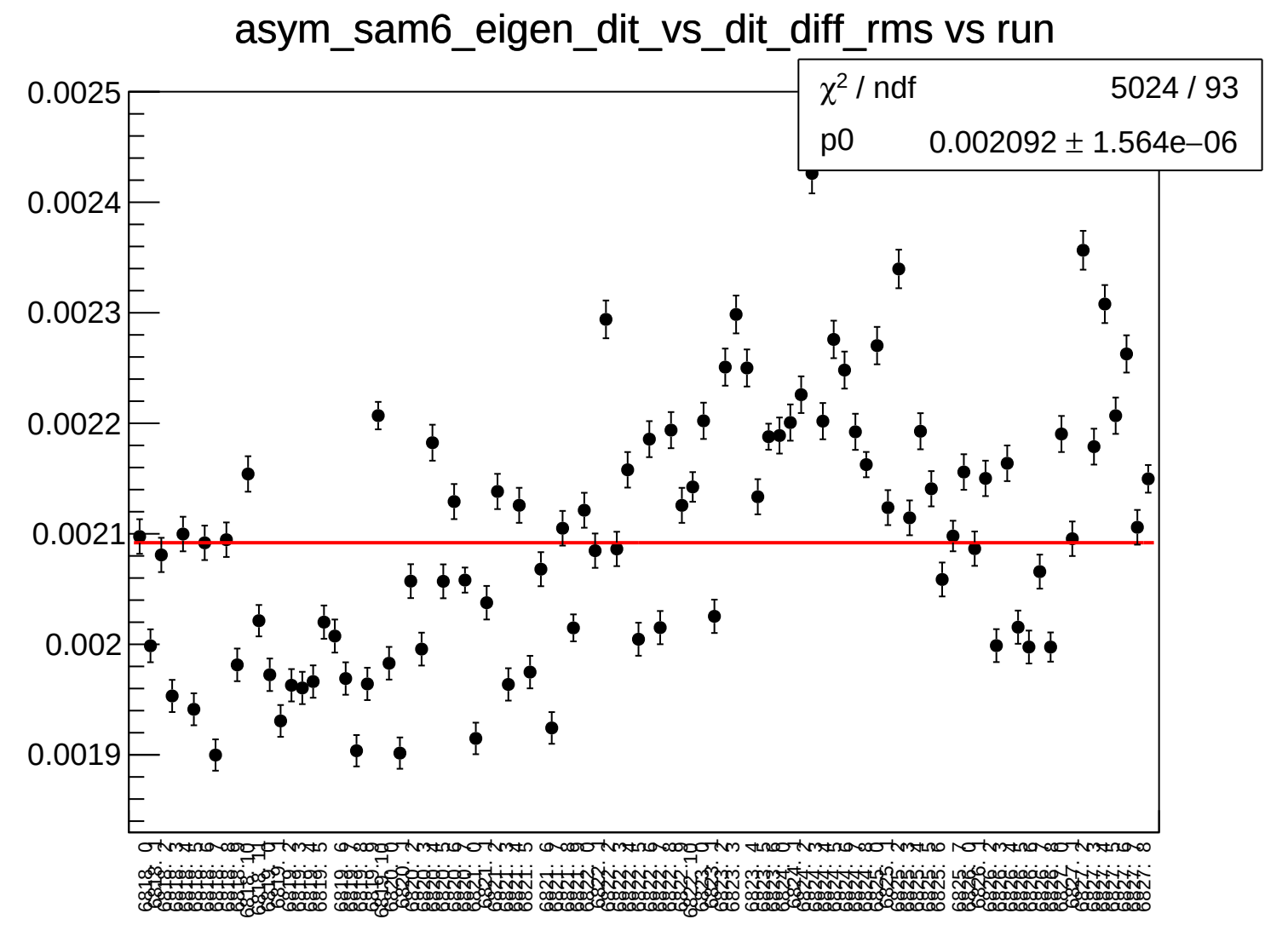

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 93
p0 0.03963 ± 0.0737
pull
Entries 94
Mean 224.5
Std Dev 0
pull1D
Entries 94
Mean −0.004629
Std Dev 1.037

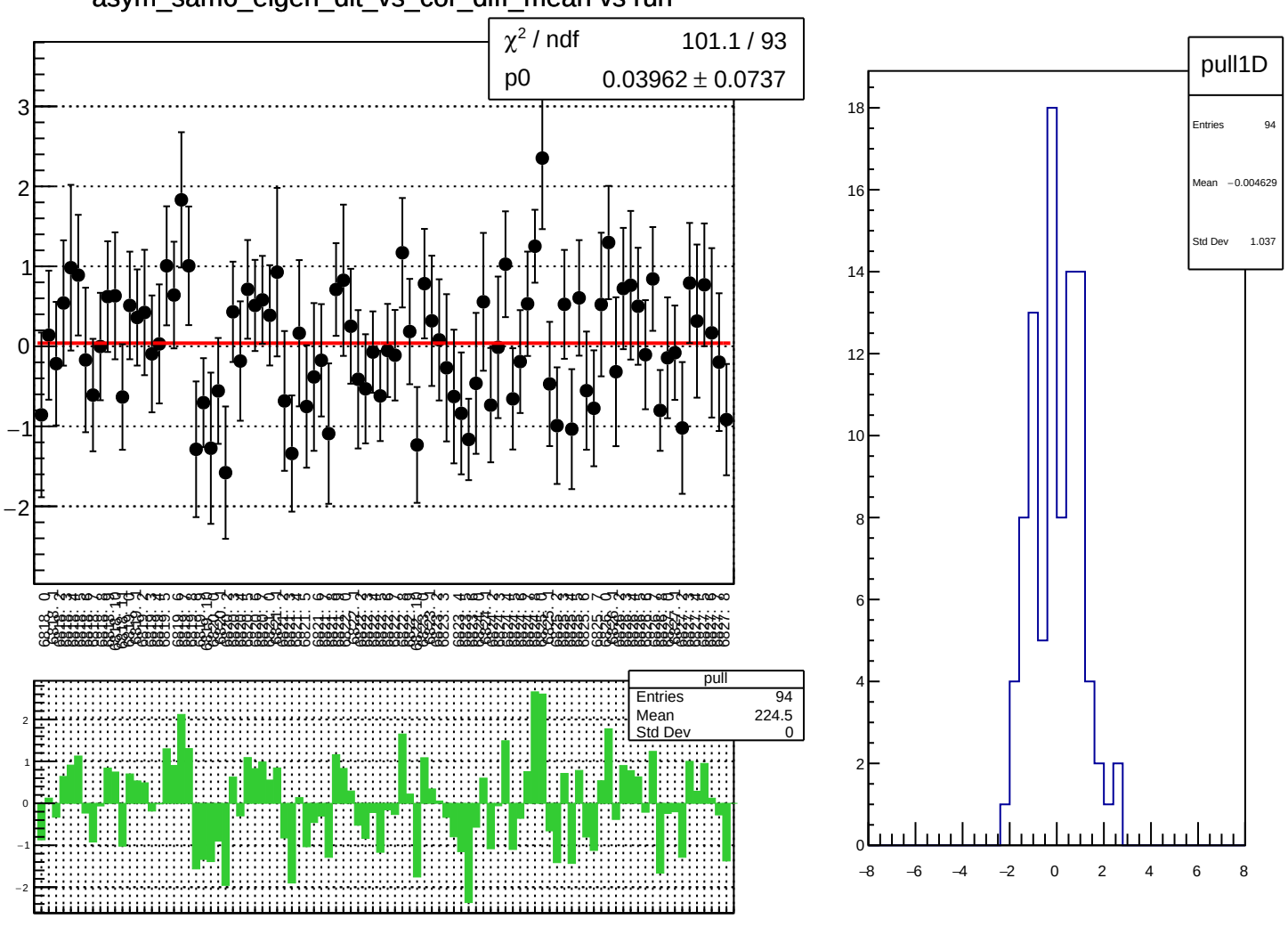

asym_sam6_dit_vs_cor_diff_rms vs run
χ² / ndf 4.083e+04 / 93
p0 69.03 ± 0.05212
100
90
80
70
60
50

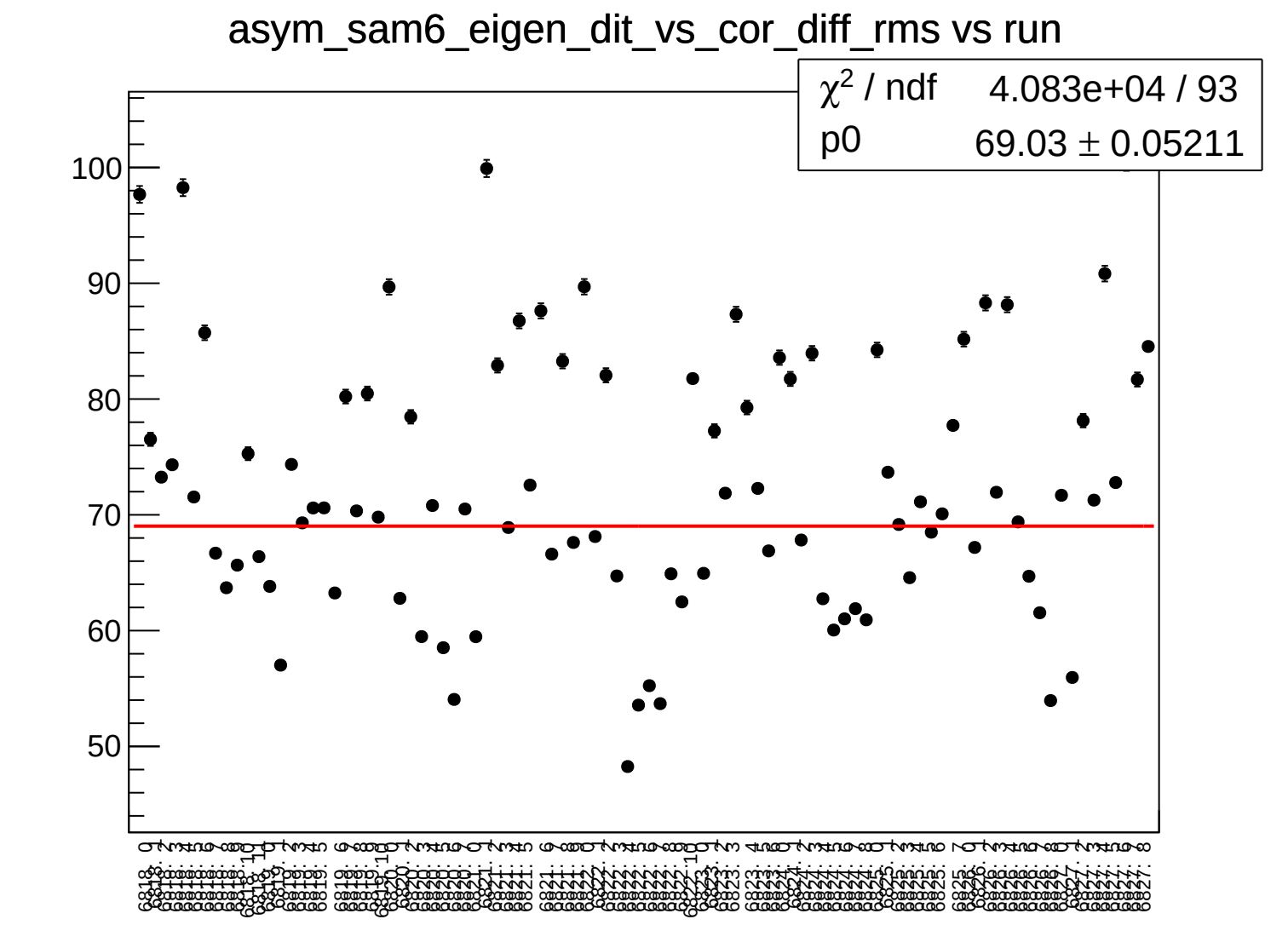

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 93
p0 0.03963 ± 0.0737
pull
Entries 94
Mean 224.5
Std Dev 0
pull1D
Entries 94
Mean −0.004629
Std Dev 1.037

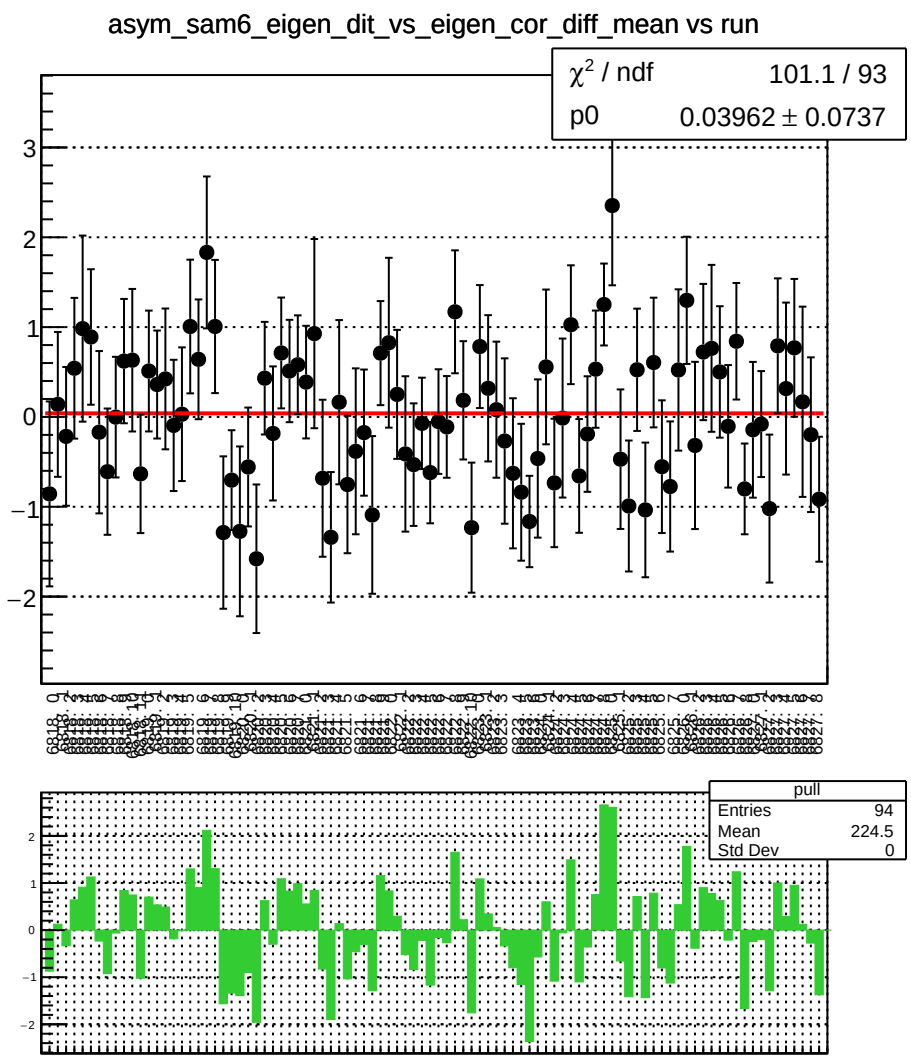

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.083e+04 / 93
p0 69.03 ± 0.05212
100
90
80
70
60
50

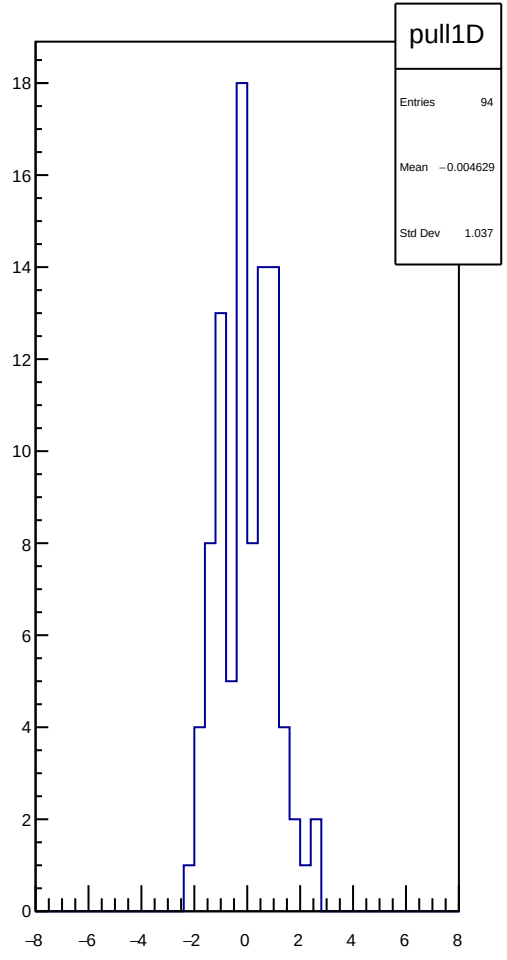

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.8 / 93
p0 −2.351e−06 ± 2.211e−06
pull
Entries 94
Mean −529.5
Std Dev 0
pull1D
Entries 94
Mean −0.003774
Std Dev 1.061

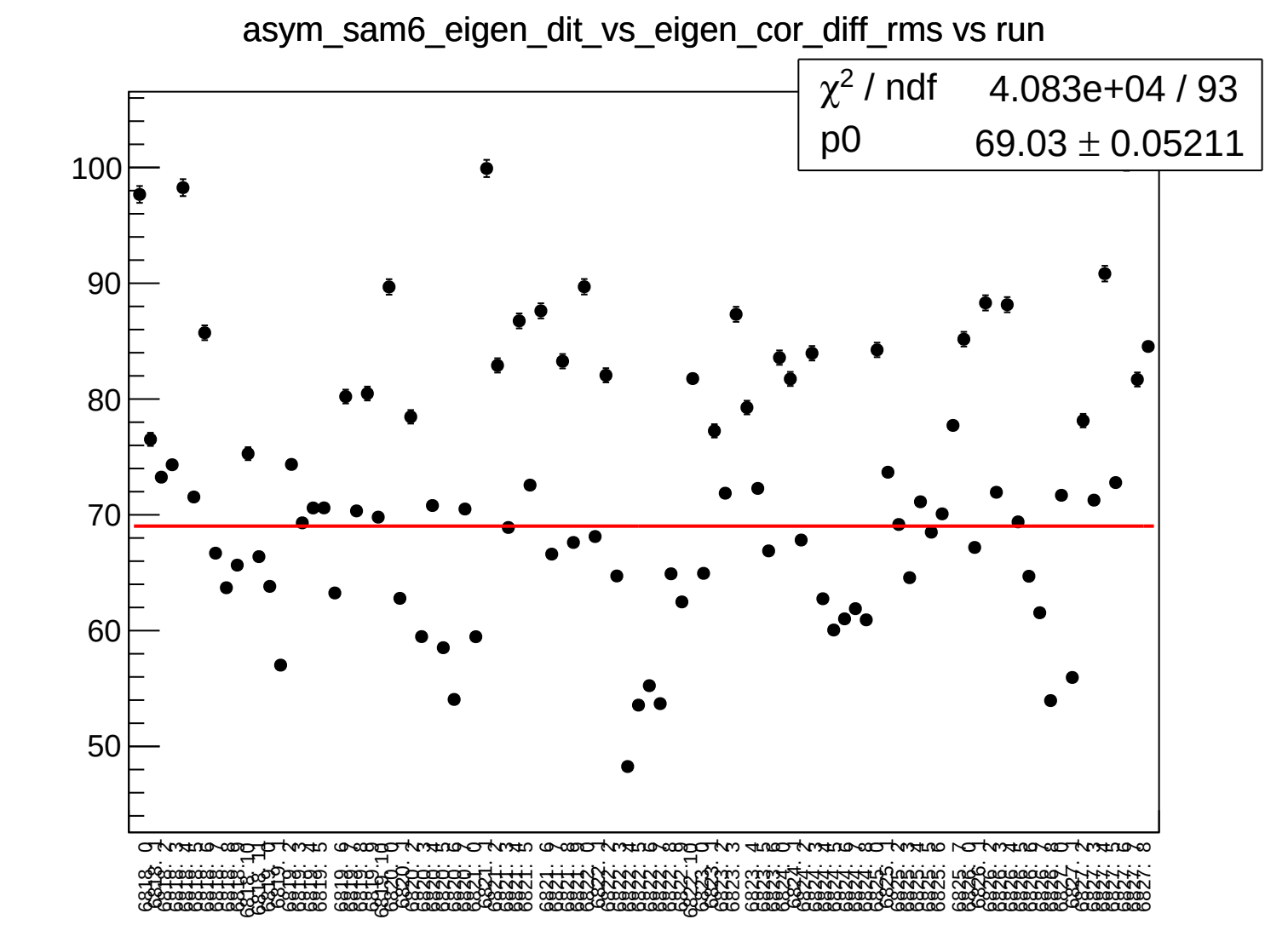

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5024 / 93
p0 0.002092 ± 1.564e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

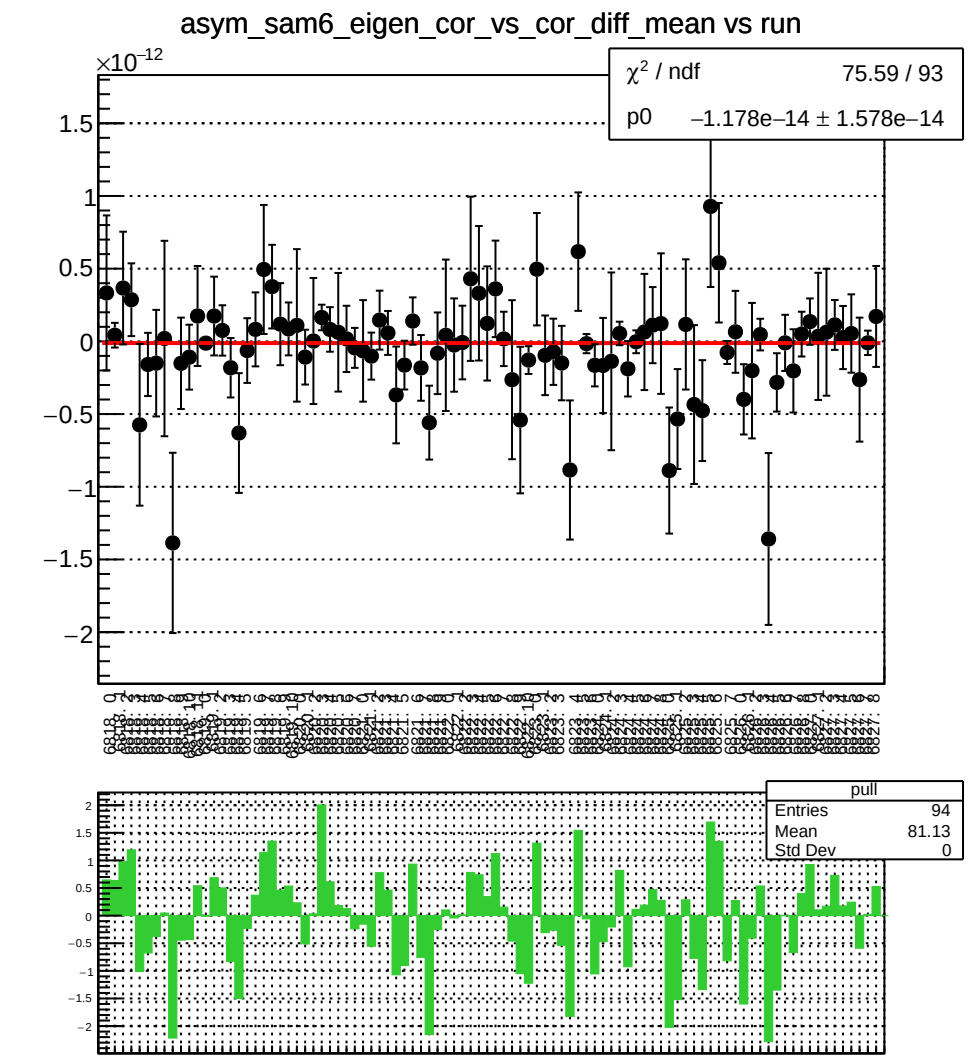

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 93
p0 0.03962 ± 0.0737
pull
Entries 94
Mean 224.5
Std Dev 0
pull1D
Entries 94
Mean −0.004629
Std Dev 1.037

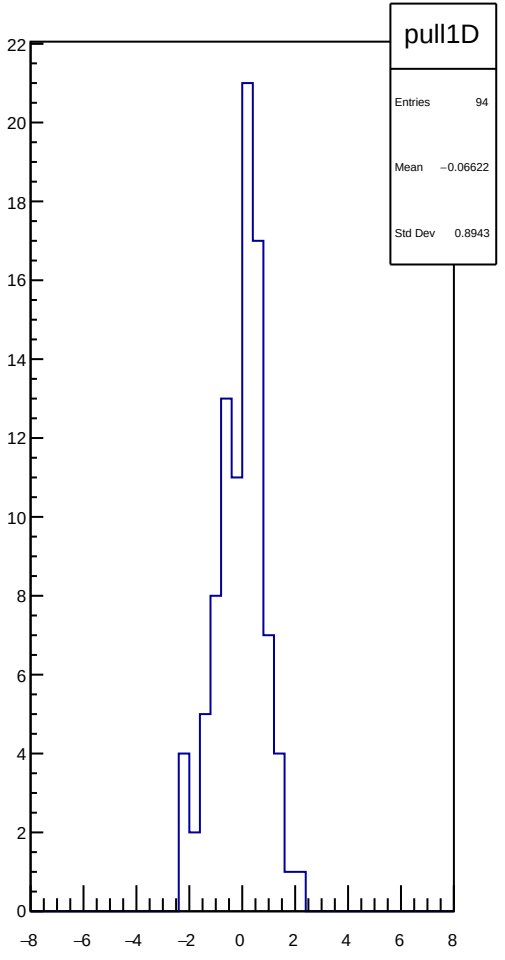

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.083e+04 / 93
p0 69.03 ± 0.05211
100
90
80
70
60
50

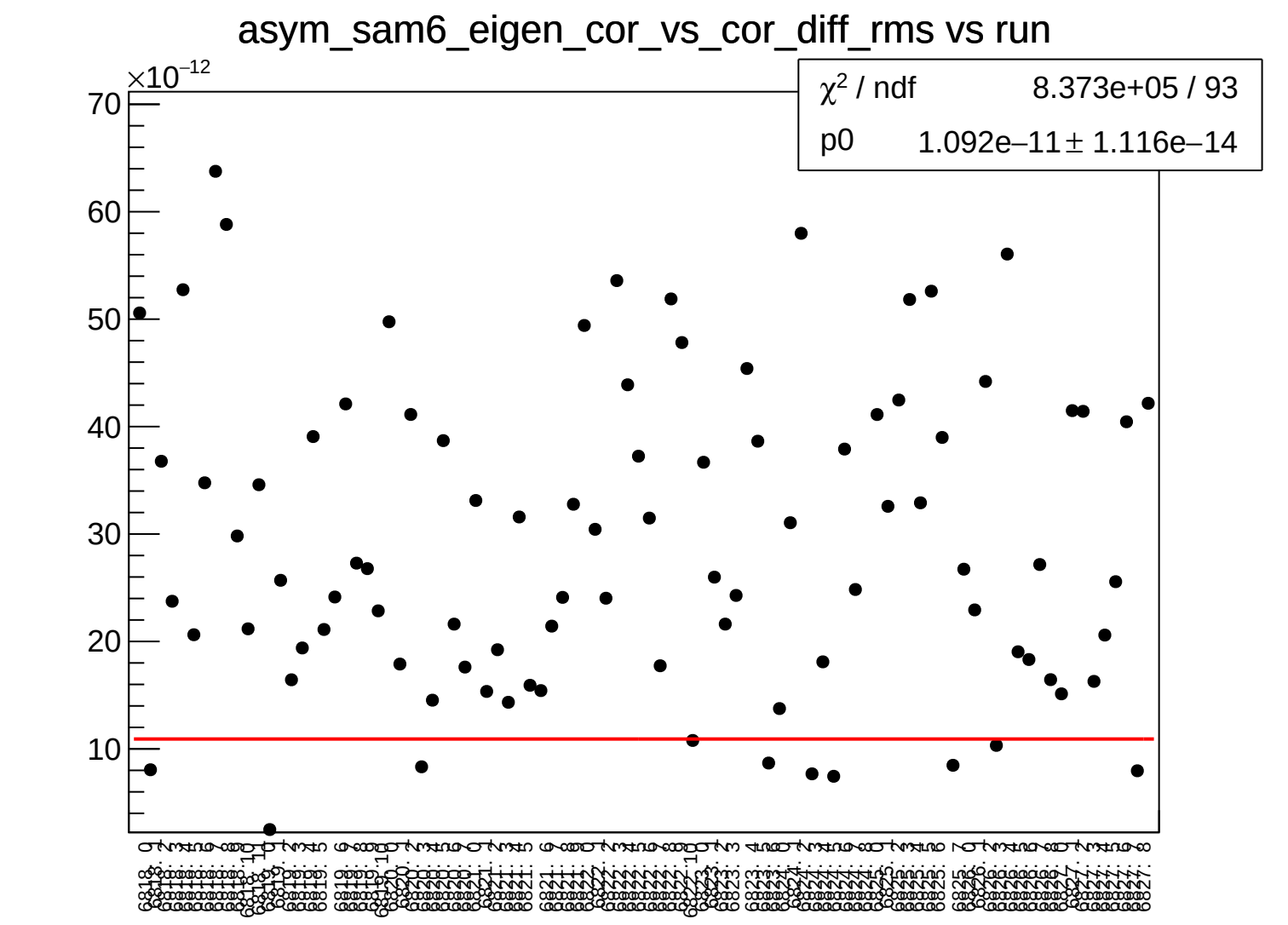

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 93
p0 0.03962 ± 0.0737
pull
Entries 94
Mean 224.5
Std Dev 0

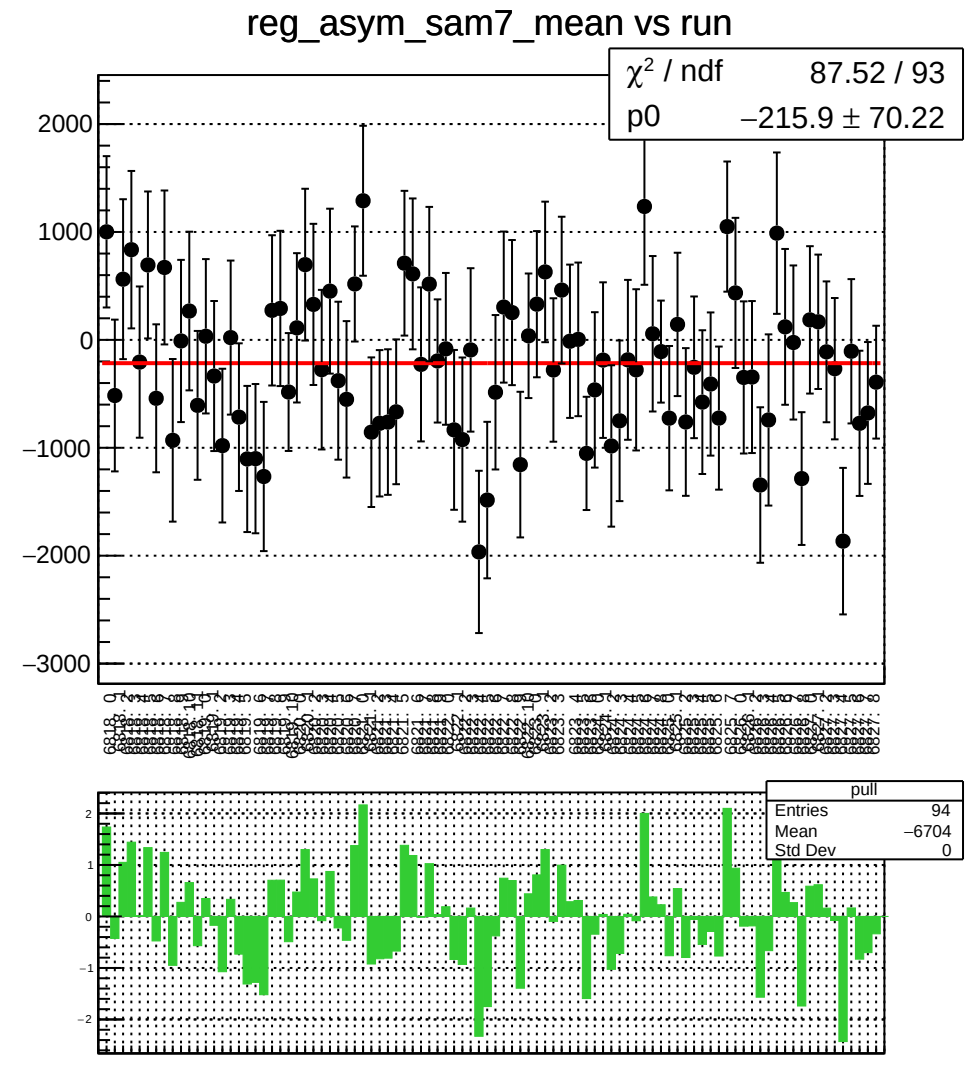

pull1D
Entries 94
Mean −0.004629
Std Dev 1.037

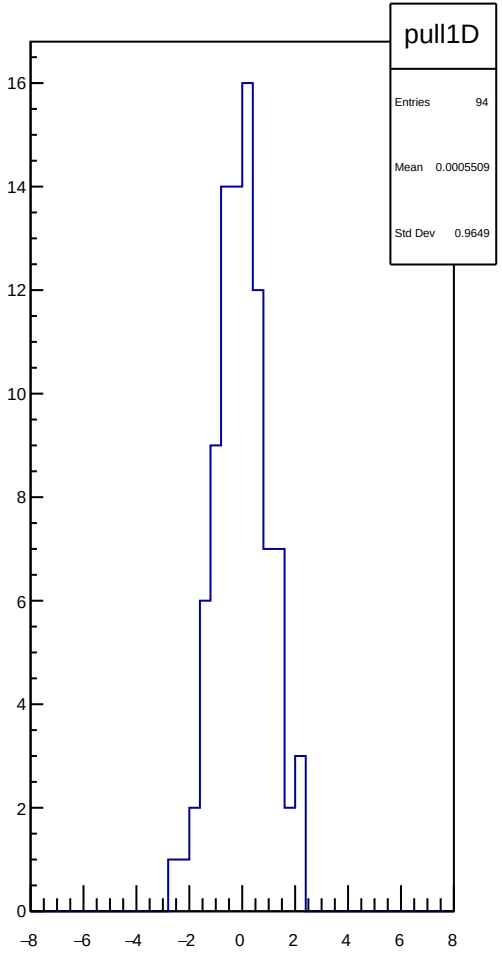

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.083e+04 / 93
p0 69.03 ± 0.05211
100
90
80
70
60
50

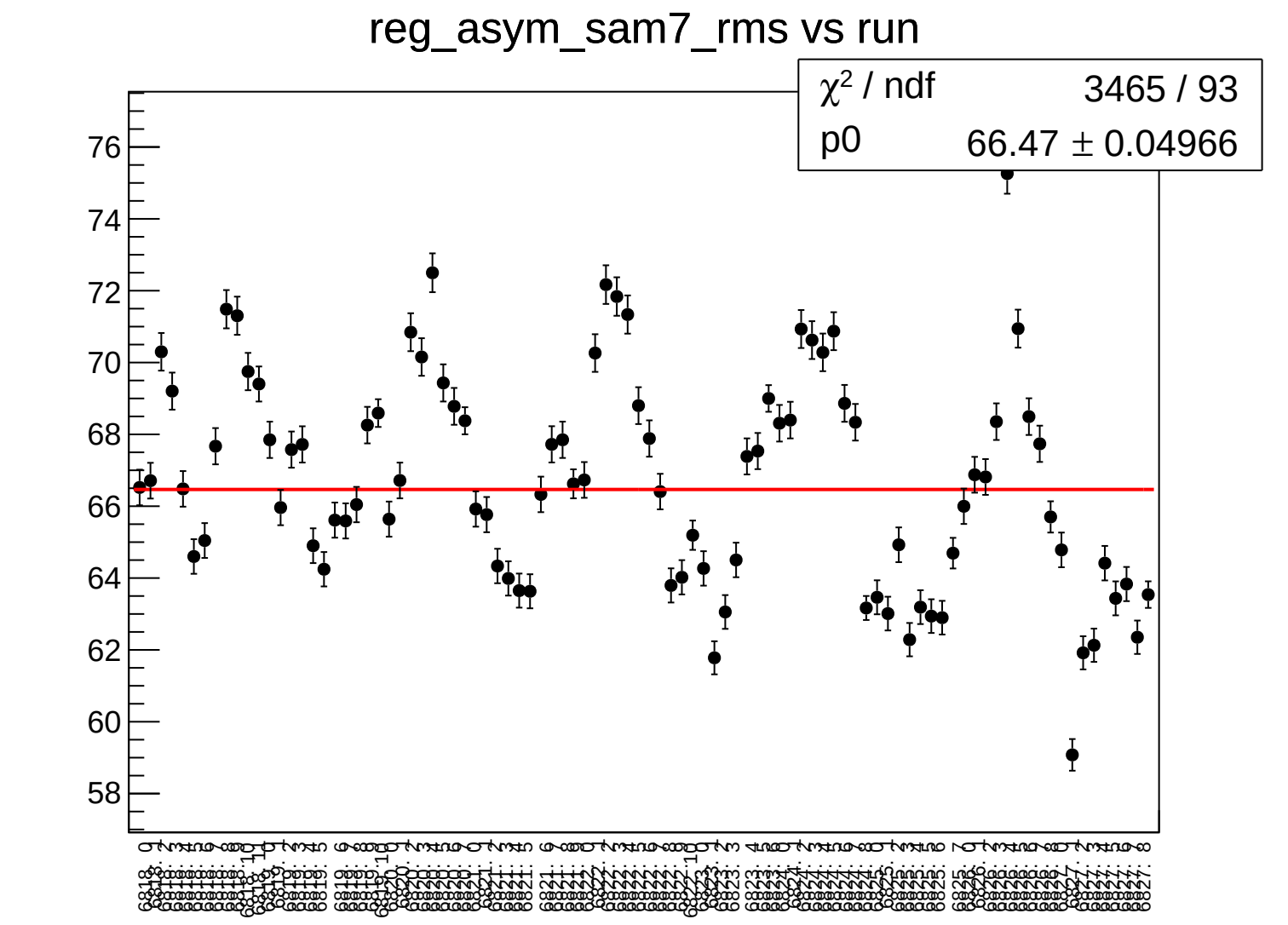

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.59 / 93
p0 −1.178e−14 ± 1.578e−14
pull
Entries 94
Mean 81.13
Std Dev 0

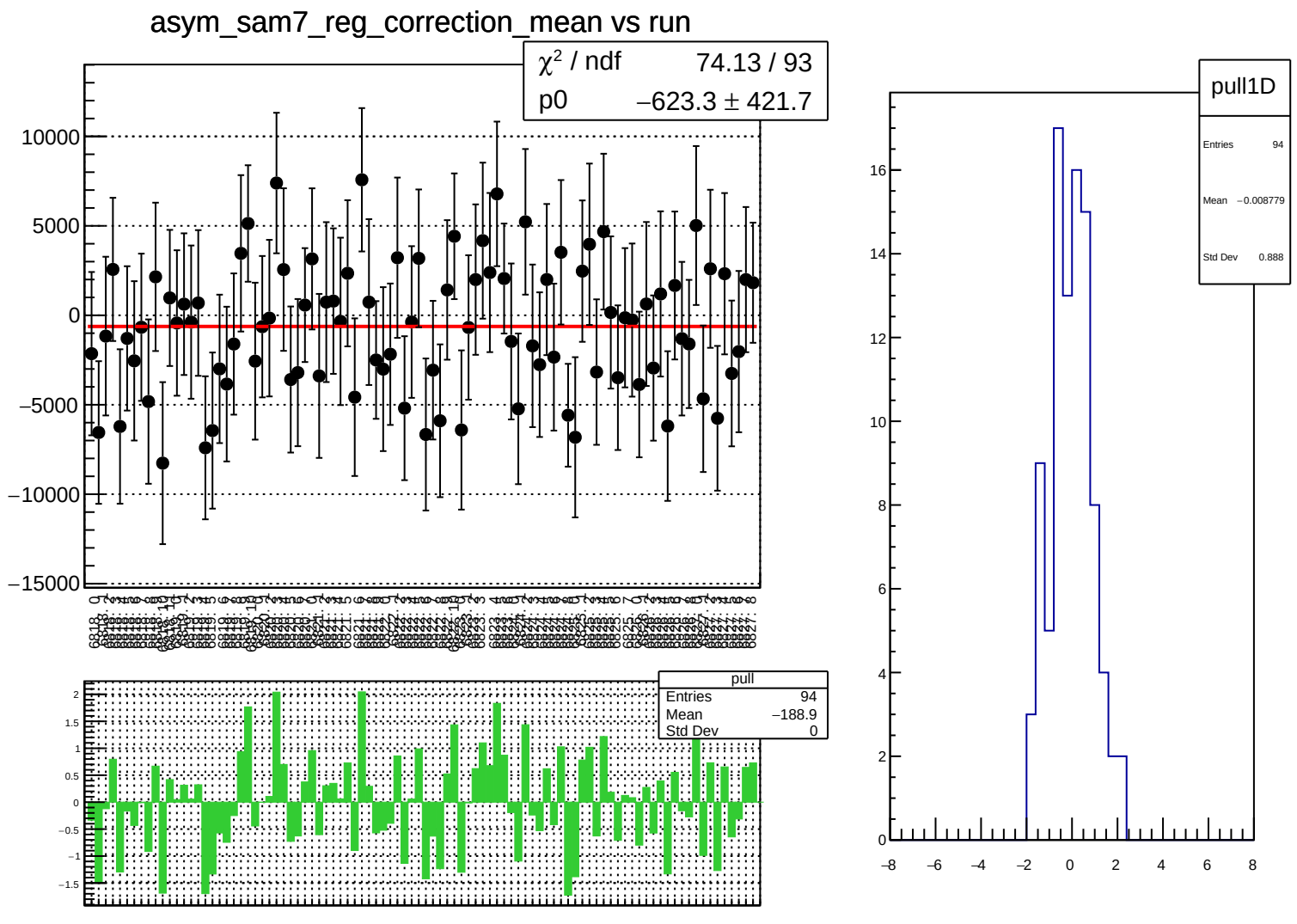

pull1D
Entries 94
Mean −0.06622
Std Dev 0.8943

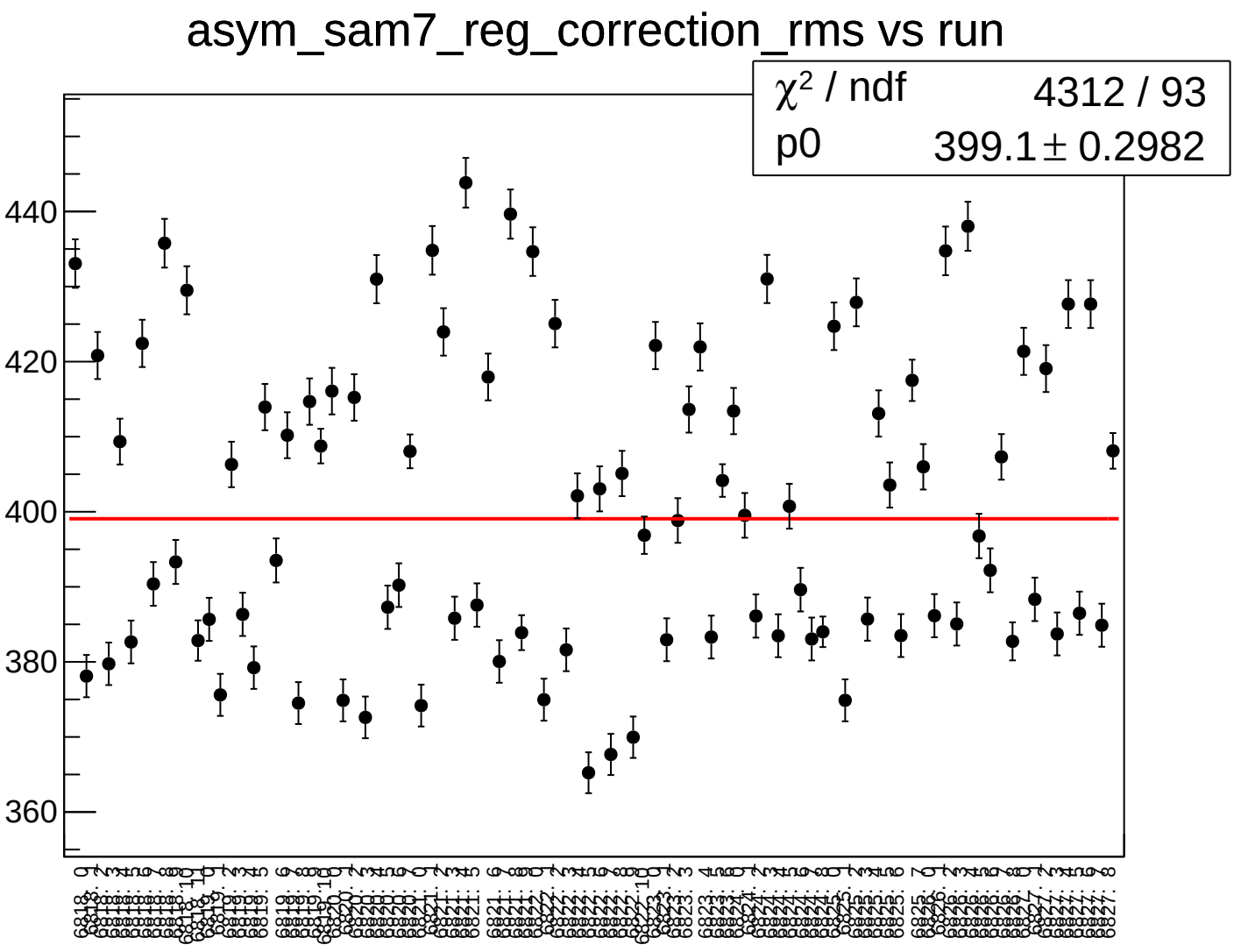

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 8.373e+05 / 93
p0 1.092e−11 ± 1.116e−14

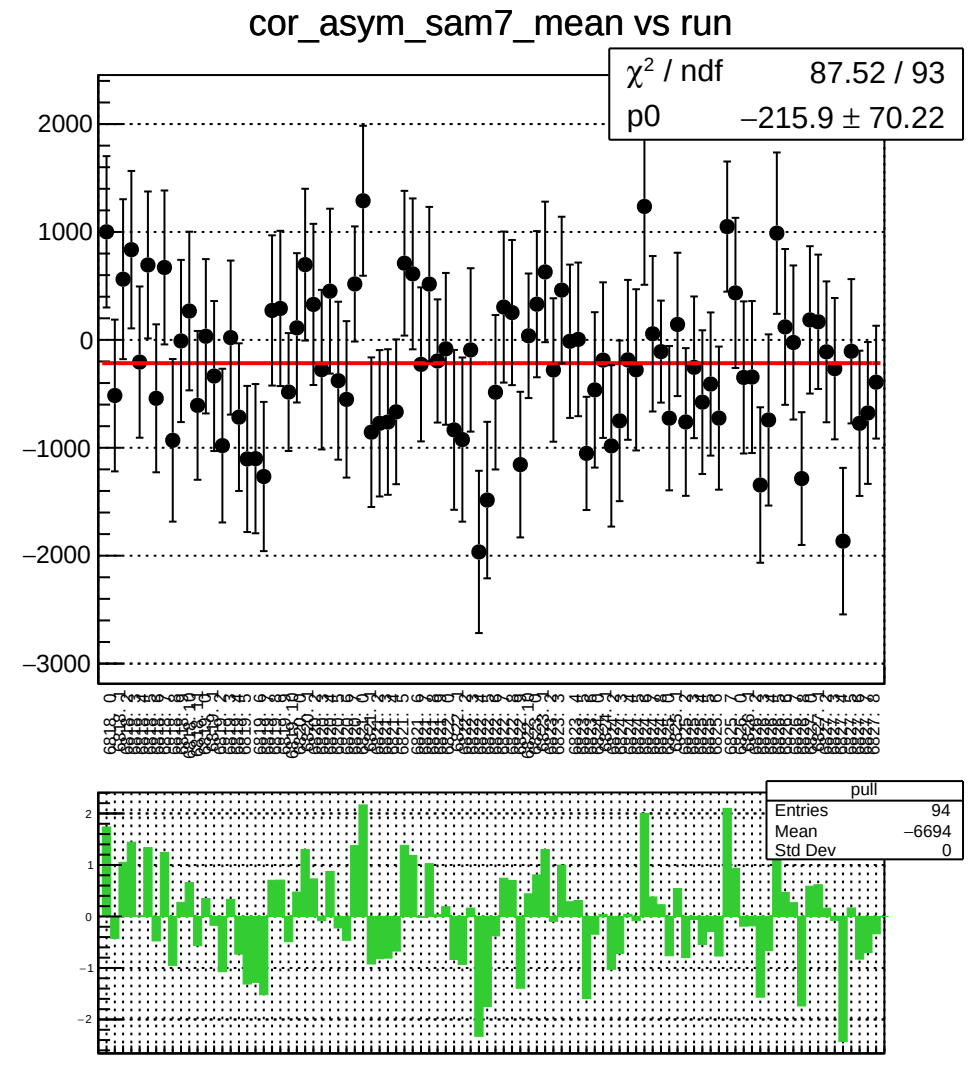

reg_asym_sam7_mean vs run
χ² / ndf 87.52 / 93
p0 −215.9 ± 70.22
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −6704
Std Dev 0
2
1
0
−1
−2

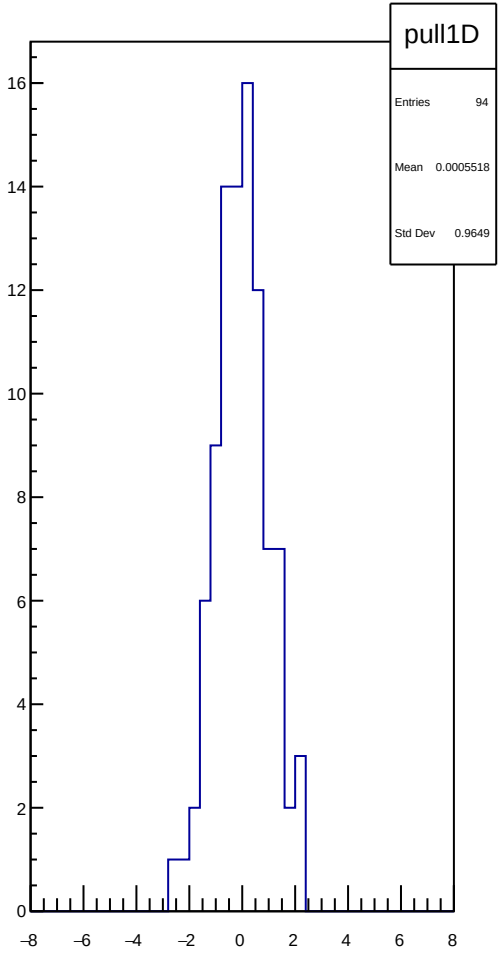

pull1D
Entries 94
Mean 0.0005509
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

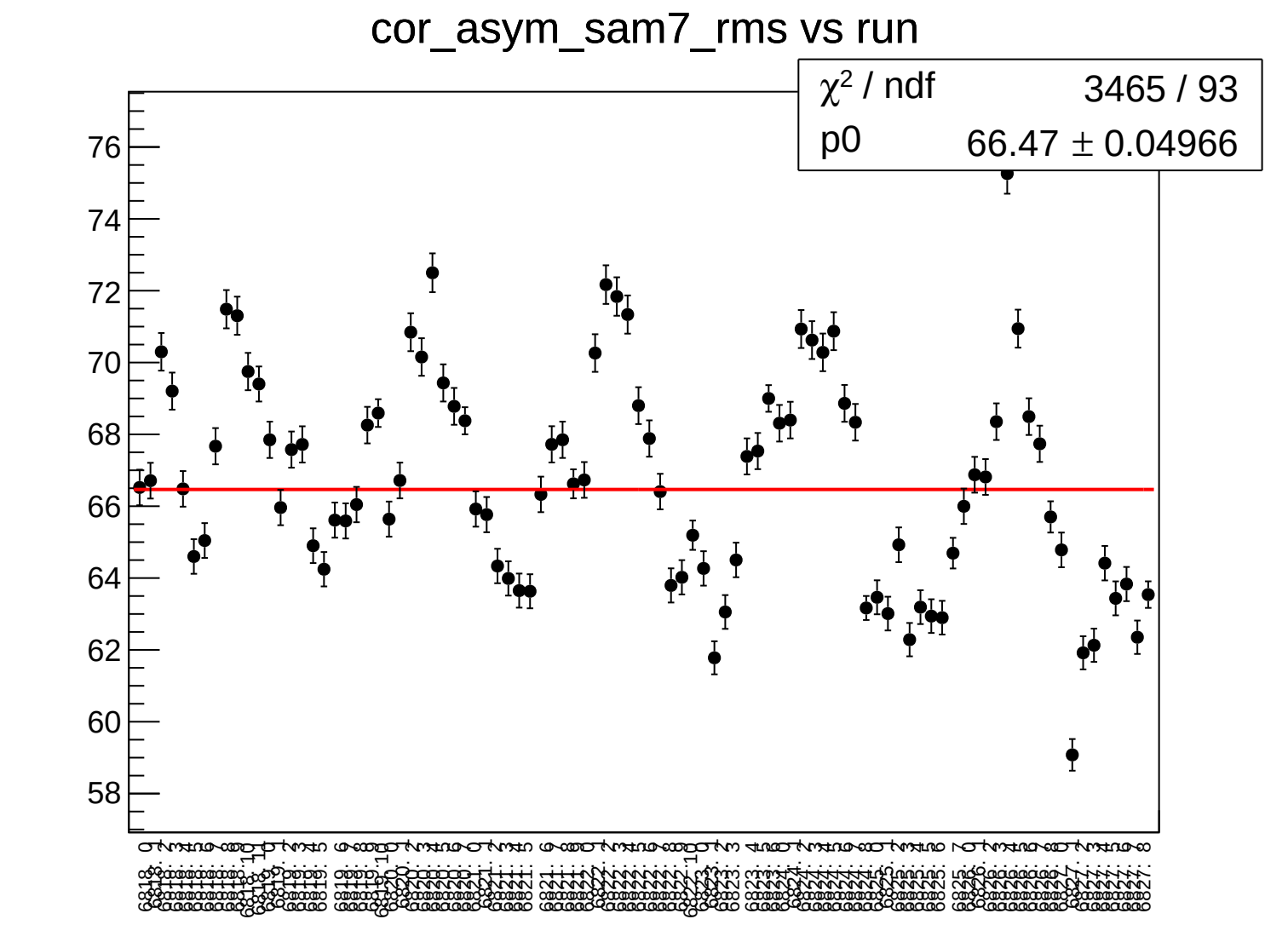

reg_asym_sam7_rms vs run
χ² / ndf 3465 / 93
p0 66.47 ± 0.04966
76
74
72
70
68
66
64
62
60
58

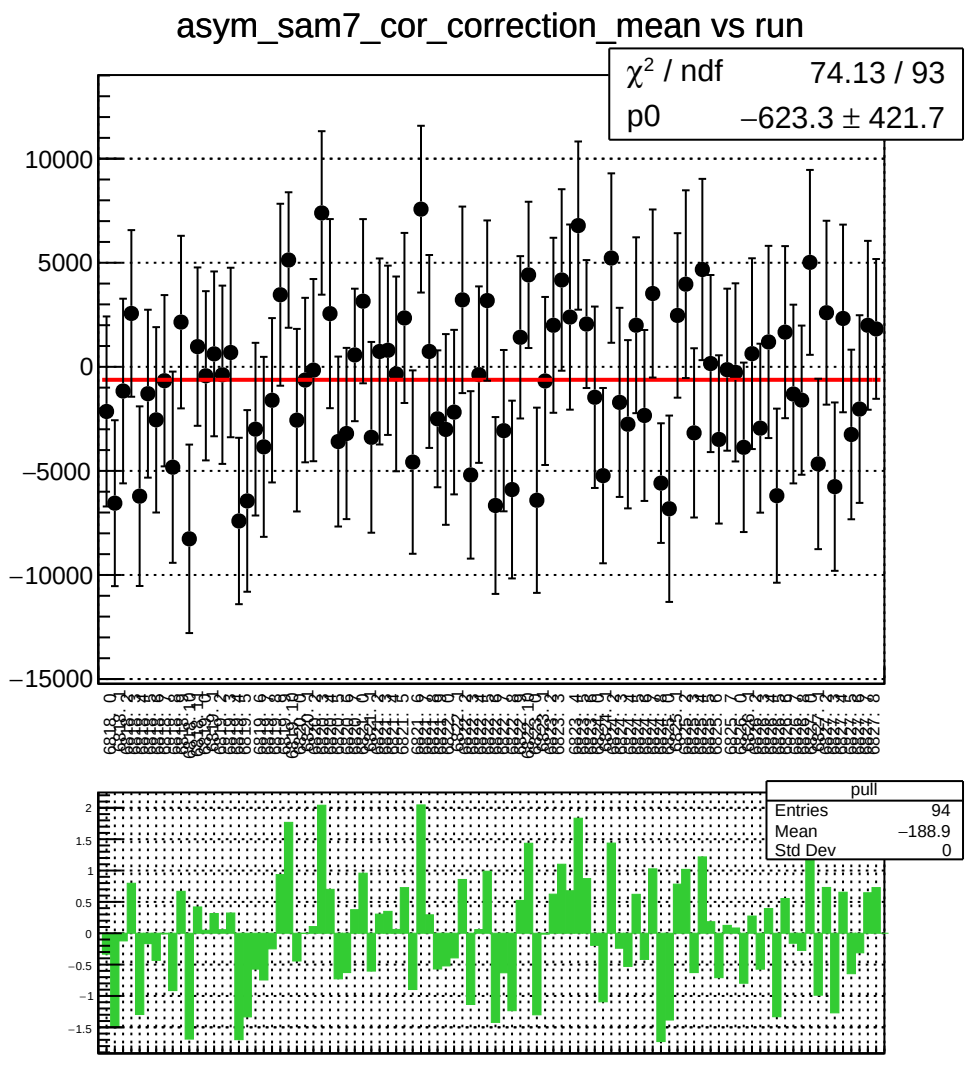

asym_sam7_reg_correction_mean vs run
χ² / ndf 74.13 / 93
p0 −623.3 ± 421.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.008779
Std Dev 0.888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

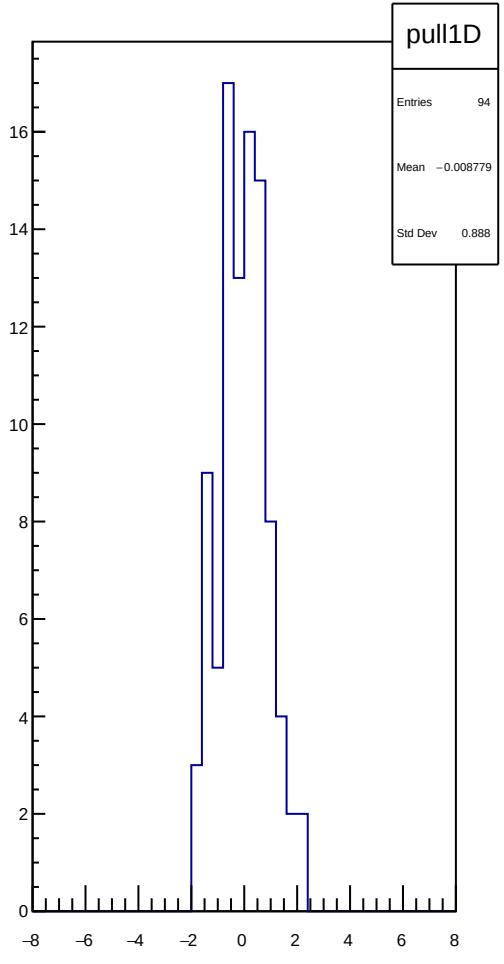

asym_sam7_reg_correction_rms vs run
χ² / ndf 4312 / 93
p0 399.1 ± 0.2982
440
420
400
380
360

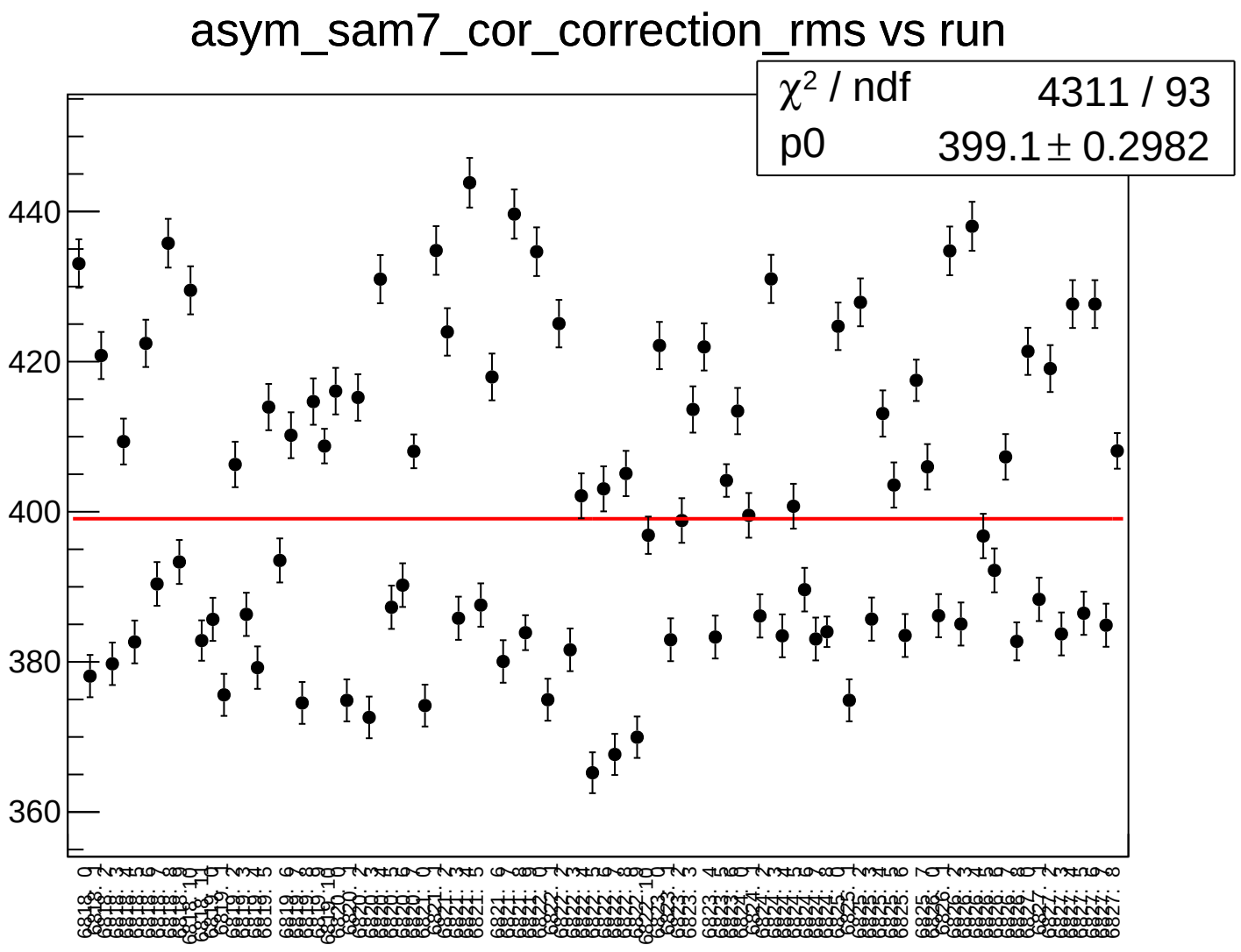

cor_asym_sam7_mean vs run
χ² / ndf 87.52 / 93
p0 −215.9 ± 70.22
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −6694
Std Dev 0
2
1
0
−1
−2

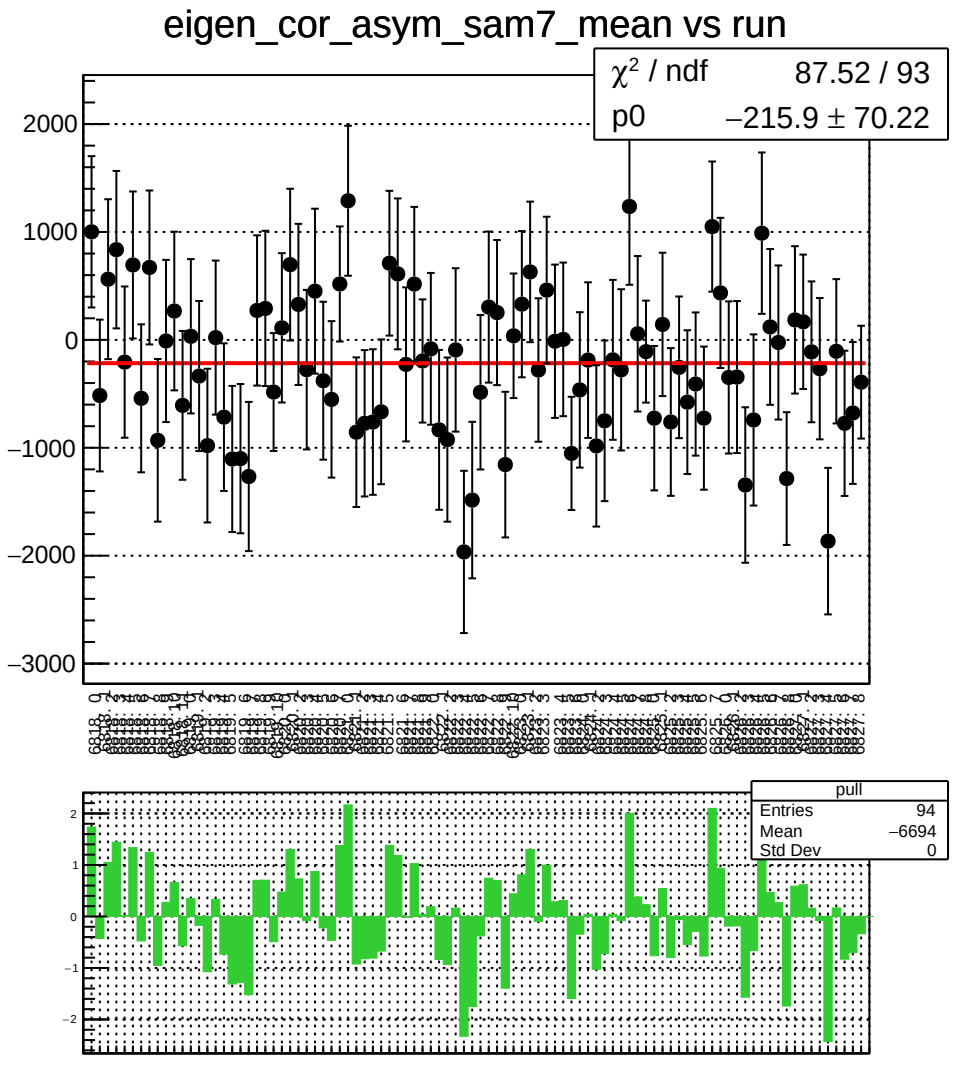

pull1D
Entries 94
Mean 0.0005518
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

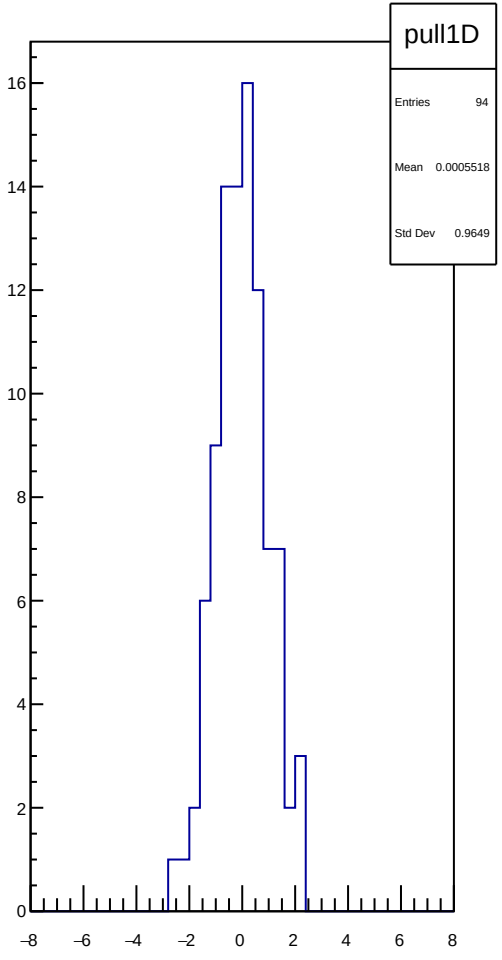

cor_asym_sam7_rms vs run
χ² / ndf 3465 / 93
p0 66.47 ± 0.04966
76
74
72
70
68
66
64
62
60
58

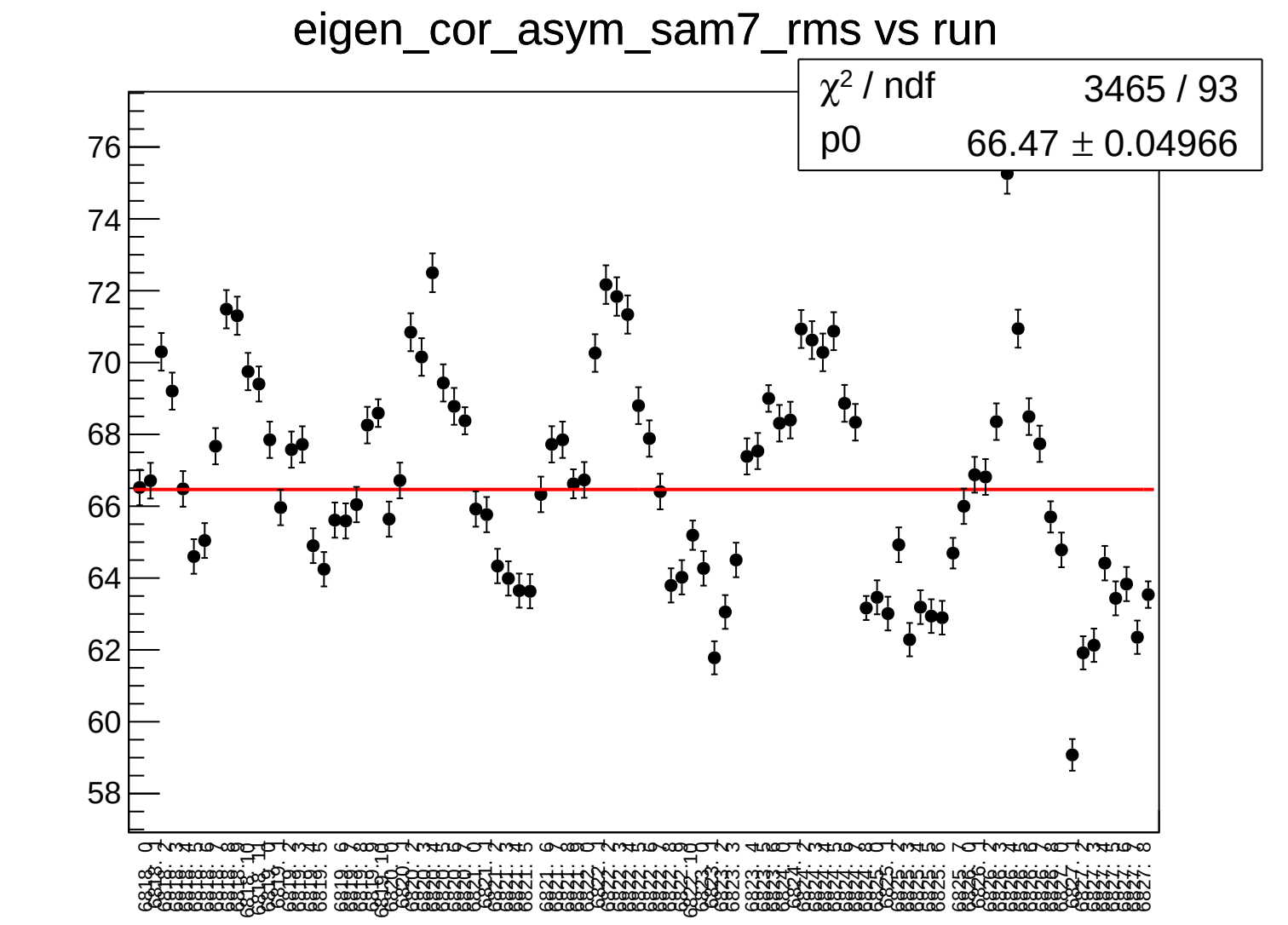

asym_sam7_cor_correction_mean vs run
χ² / ndf 74.13 / 93
p0 −623.3 ± 421.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

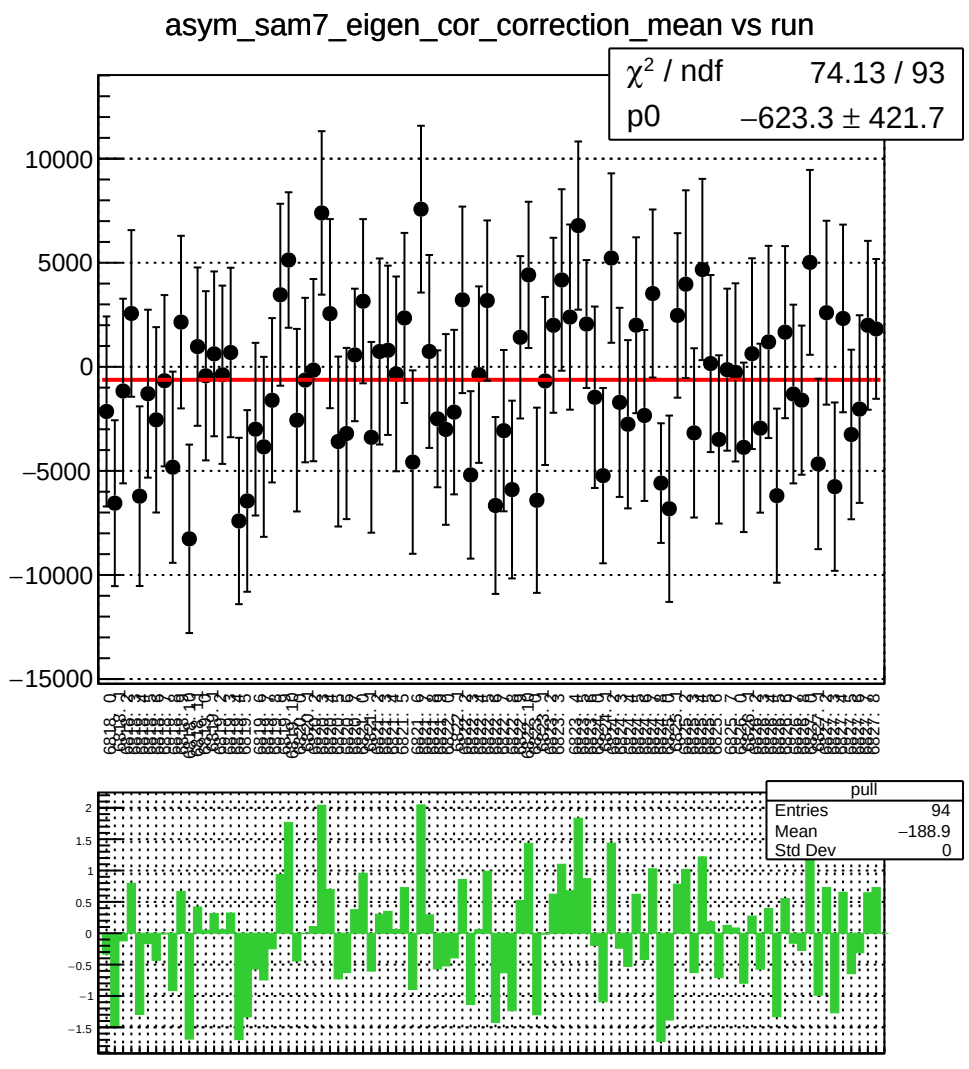

pull1D
Entries 94
Mean −0.008779
Std Dev 0.888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

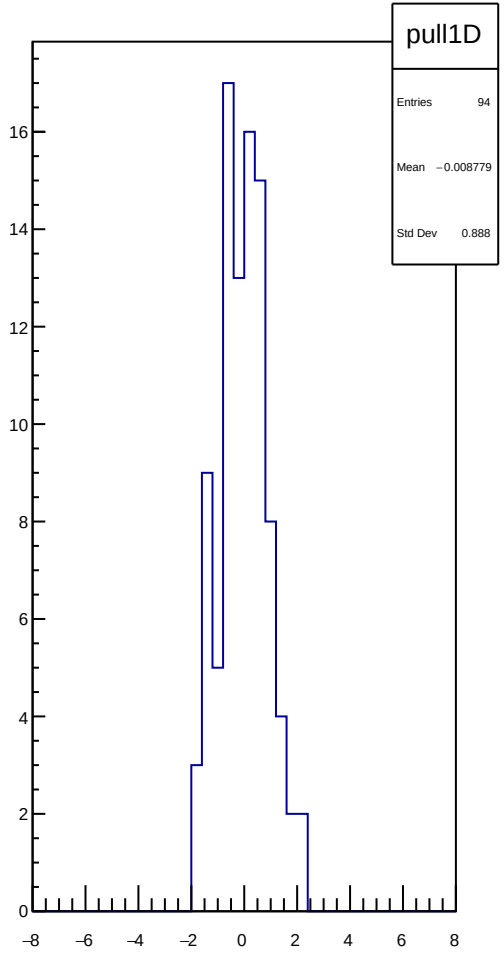

asym_sam7_cor_correction_rms vs run
χ² / ndf 4311 / 93
p0 399.1 ± 0.2982
440
420
400
380
360

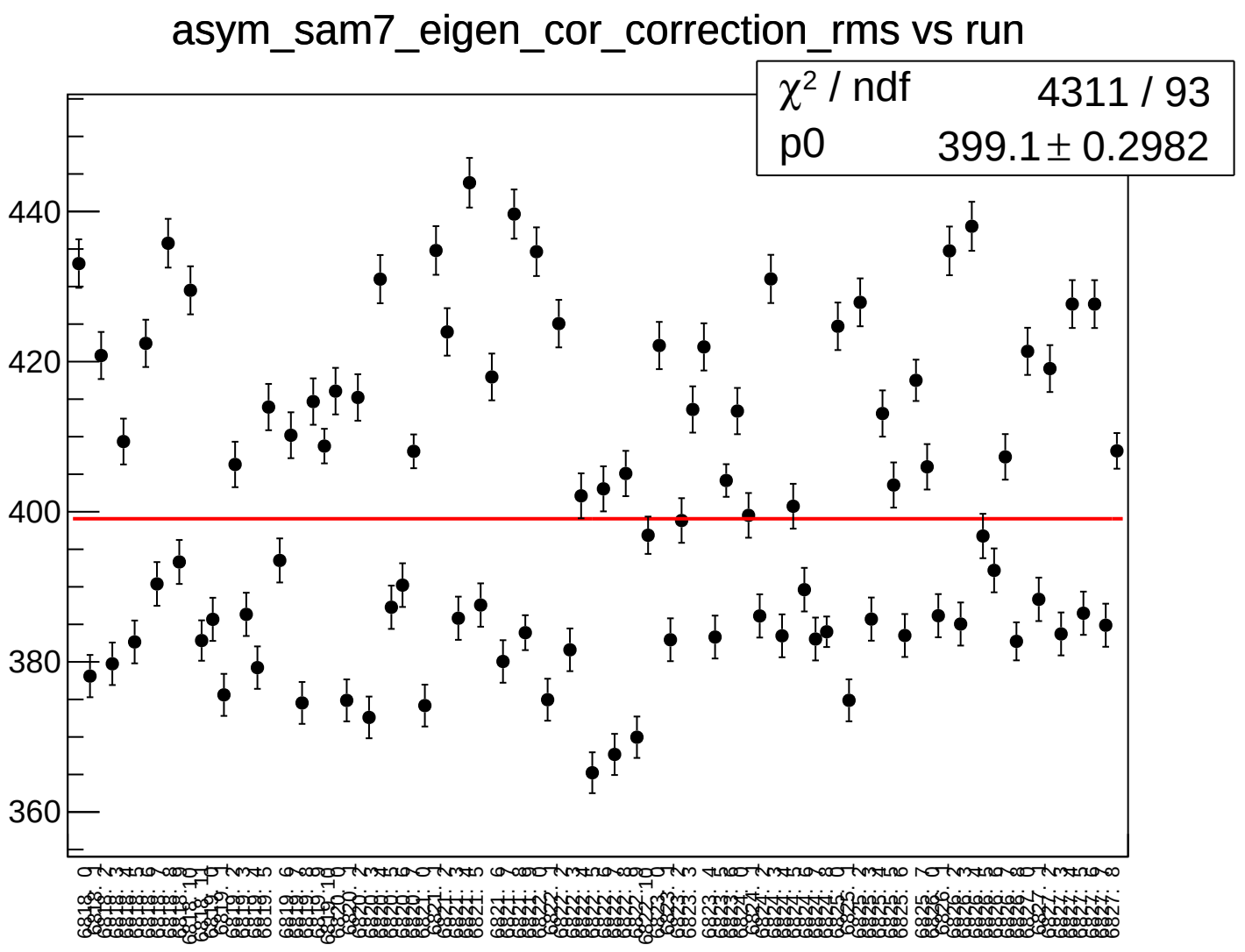

eigen_cor_asym_sam7_mean vs run
χ² / ndf 87.52 / 93
p0 −215.9 ± 70.22
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −6694
Std Dev 0
2
1
0
−1
−2

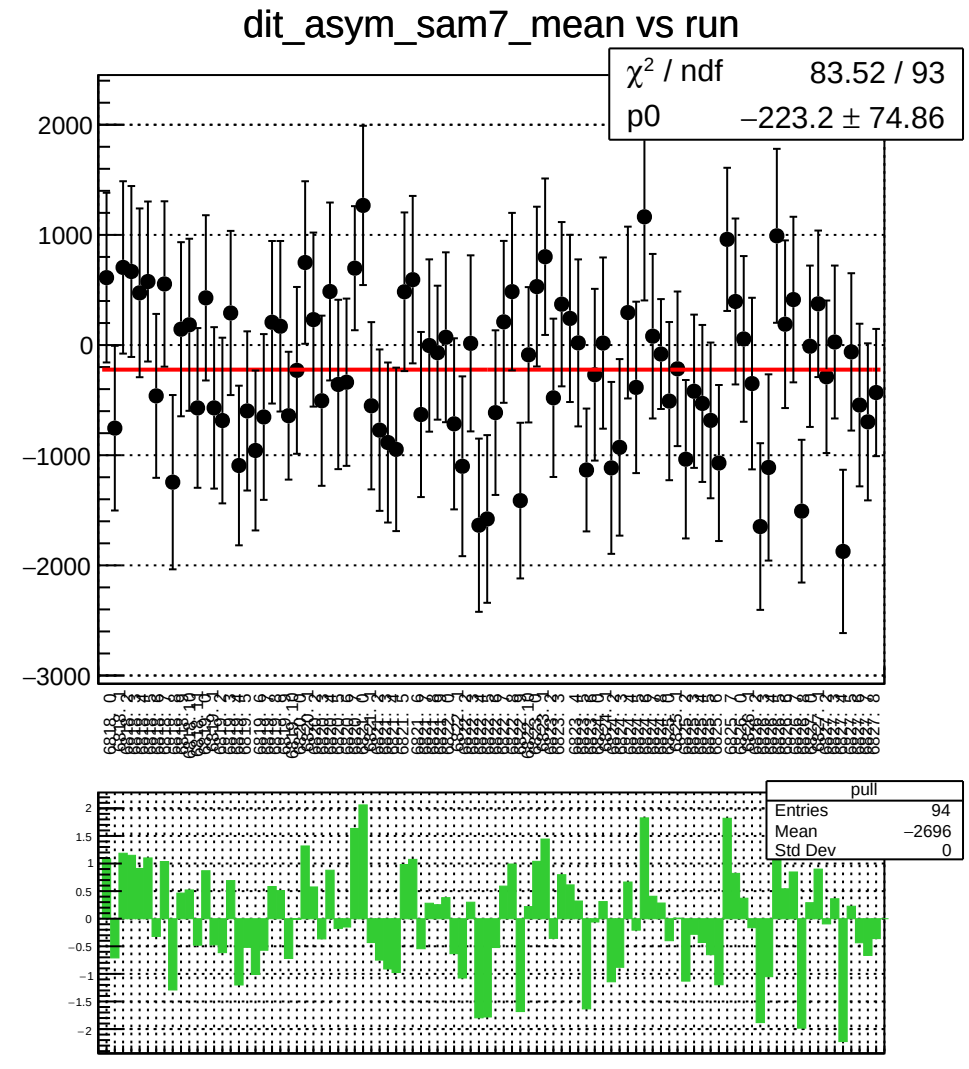

pull1D
Entries 94
Mean 0.0005518
Std Dev 0.9649
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

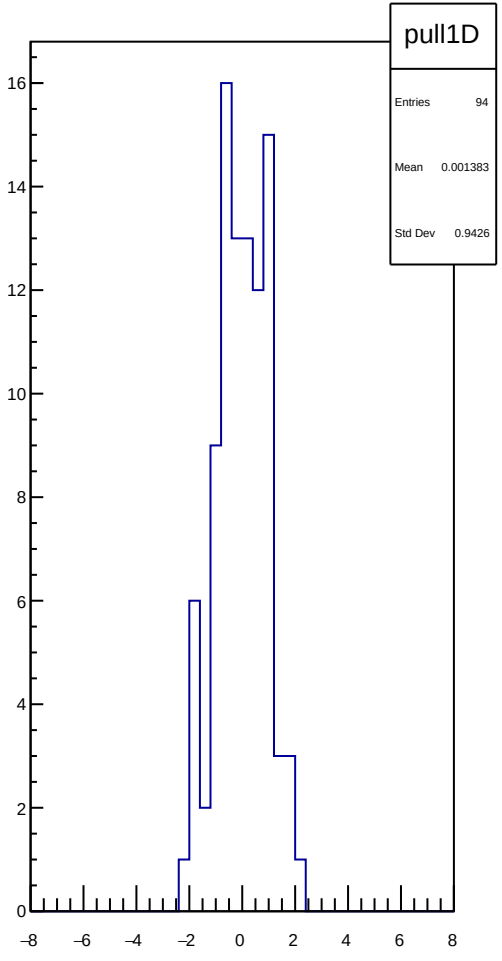

eigen_cor_asym_sam7_rms vs run
χ² / ndf 3465 / 93
p0 66.47 ± 0.04966
76
74
72
70
68
66
64
62
60
58

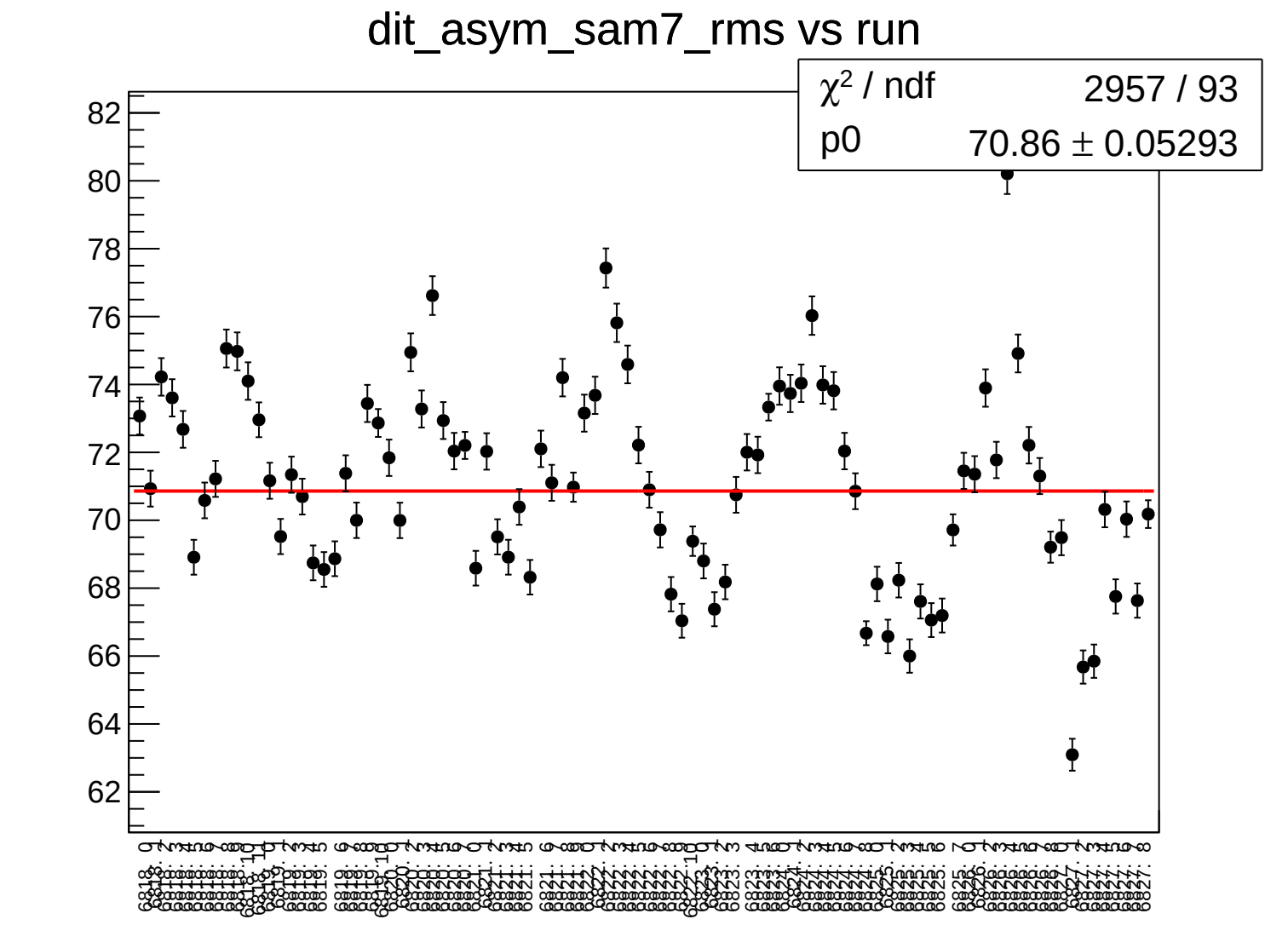

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 74.13 / 93
p0 −623.3 ± 421.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

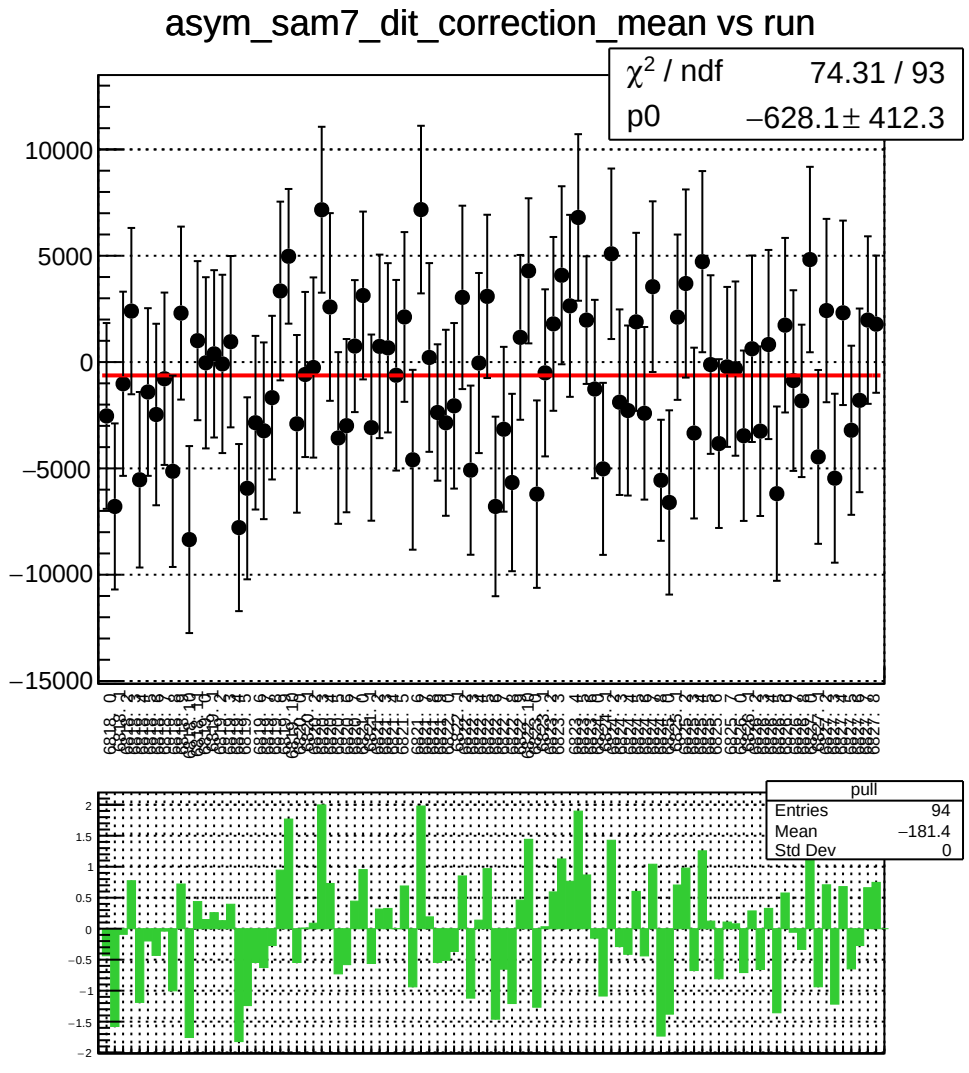

pull1D
Entries 94
Mean −0.008779
Std Dev 0.888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

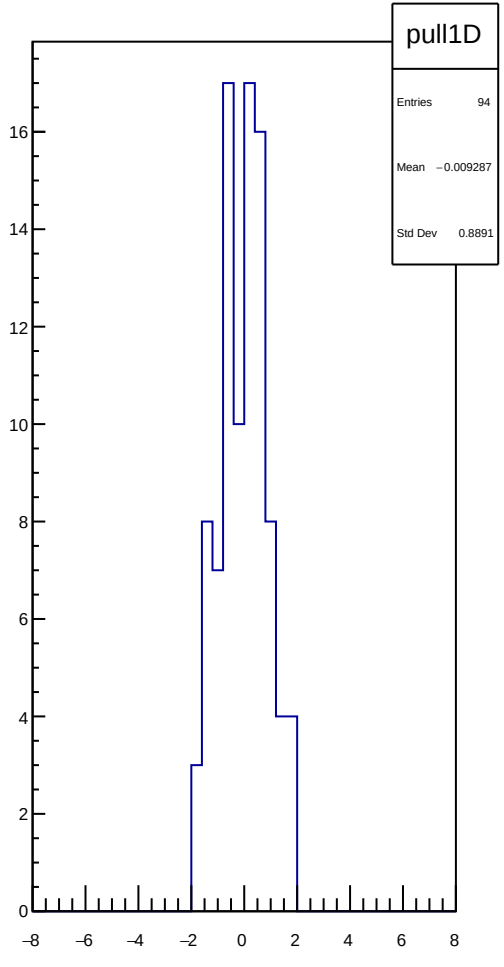

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 4311 / 93
p0 399.1 ± 0.2982
440
420
400
380
360

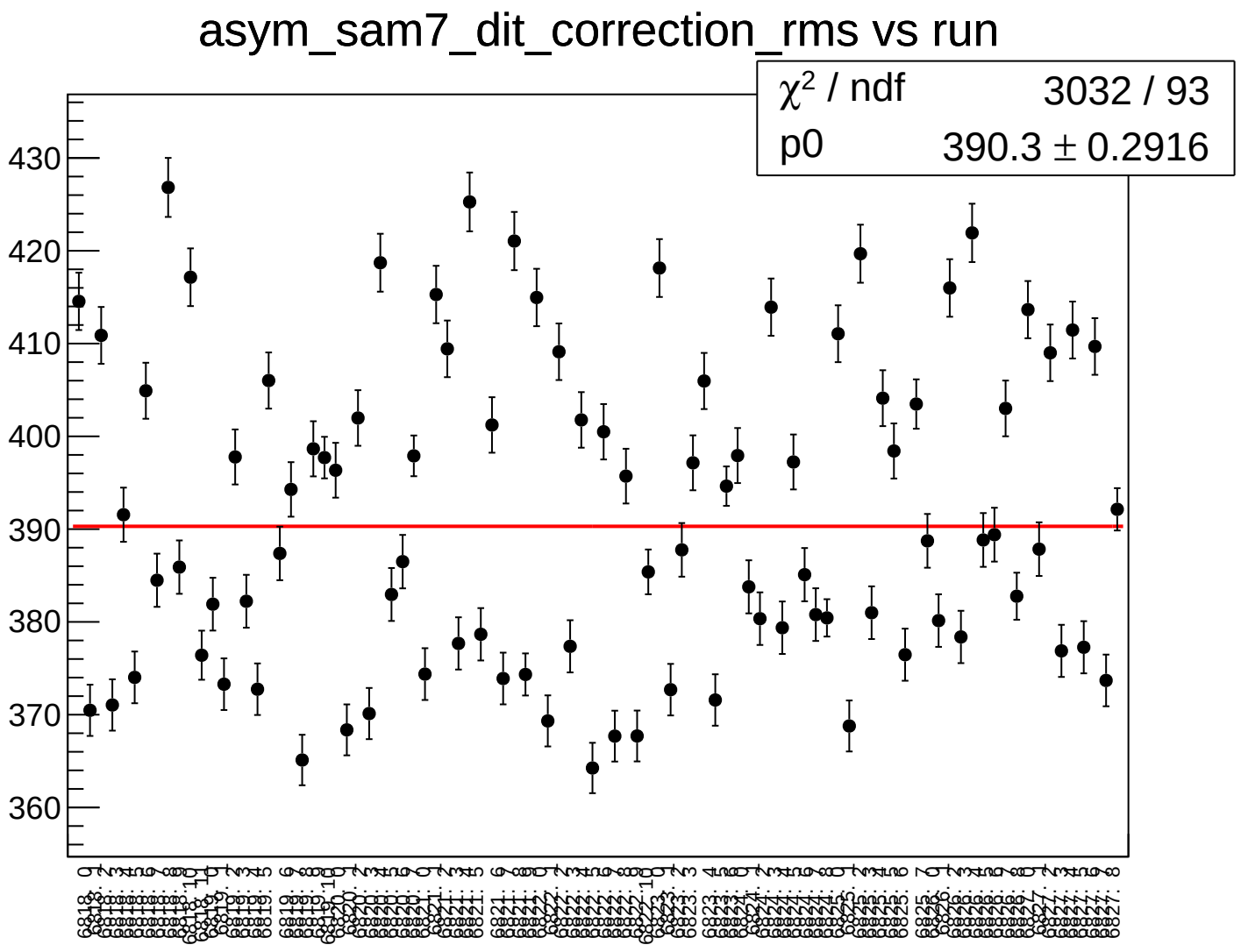

dit_asym_sam7_mean vs run
χ² / ndf 83.52 / 93
p0 −223.2 ± 74.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −2696
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

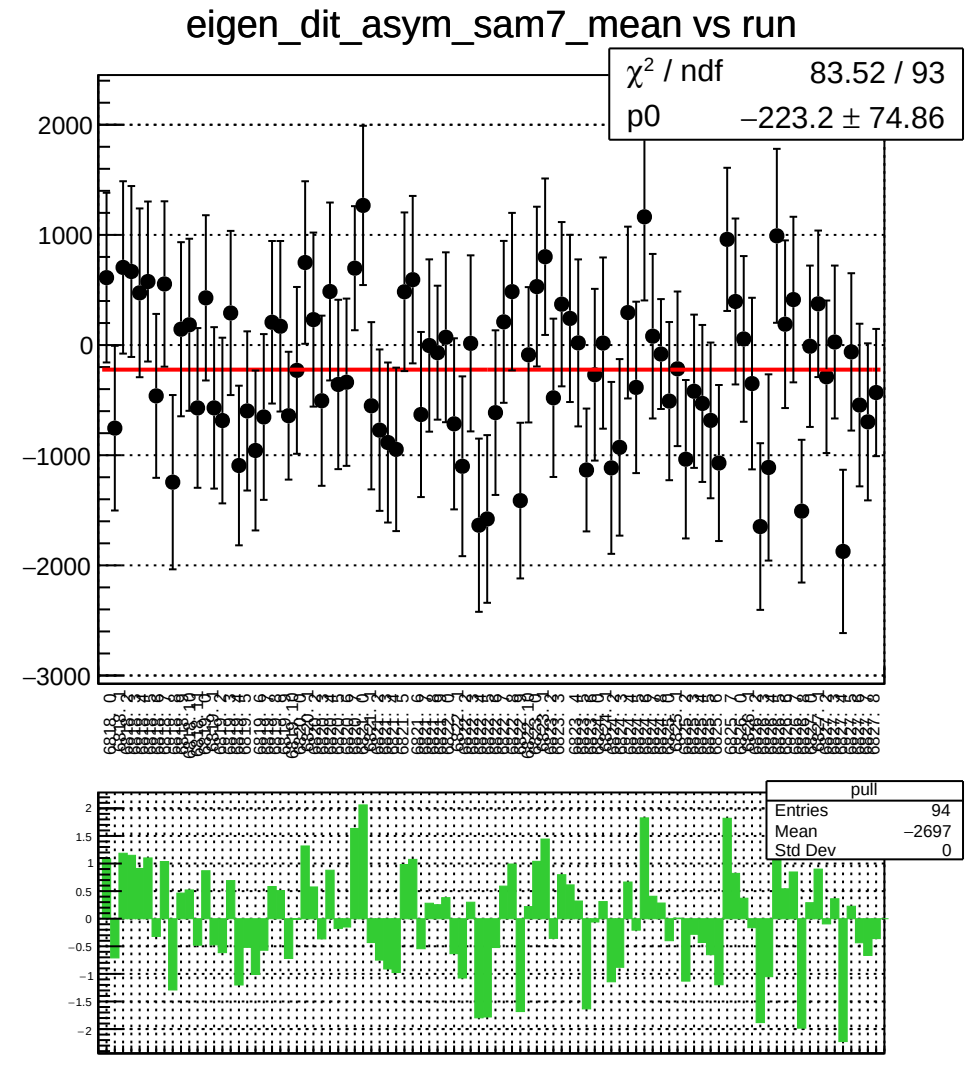

pull1D
Entries 94
Mean 0.001383
Std Dev 0.9426
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

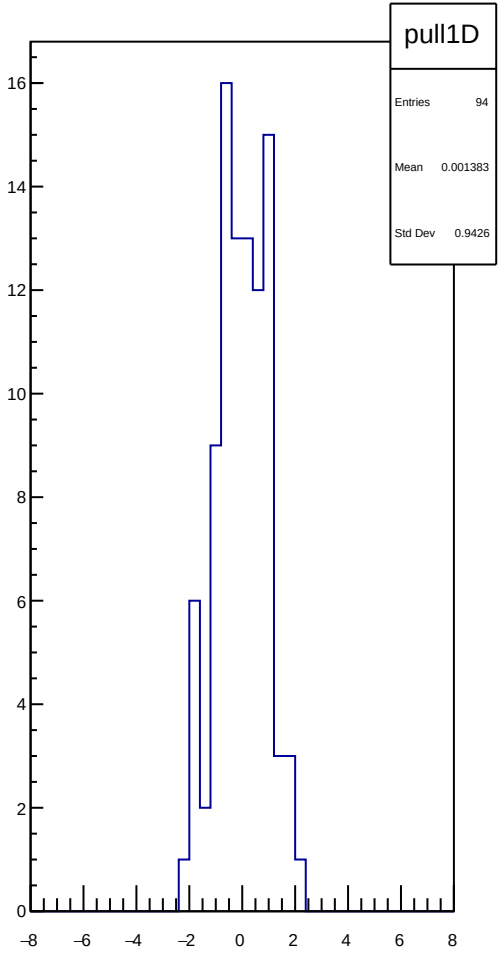

dit_asym_sam7_rms vs run
χ² / ndf 2957 / 93
p0 70.86 ± 0.05293
82
80
78
76
74
72
70
68
66
64
62

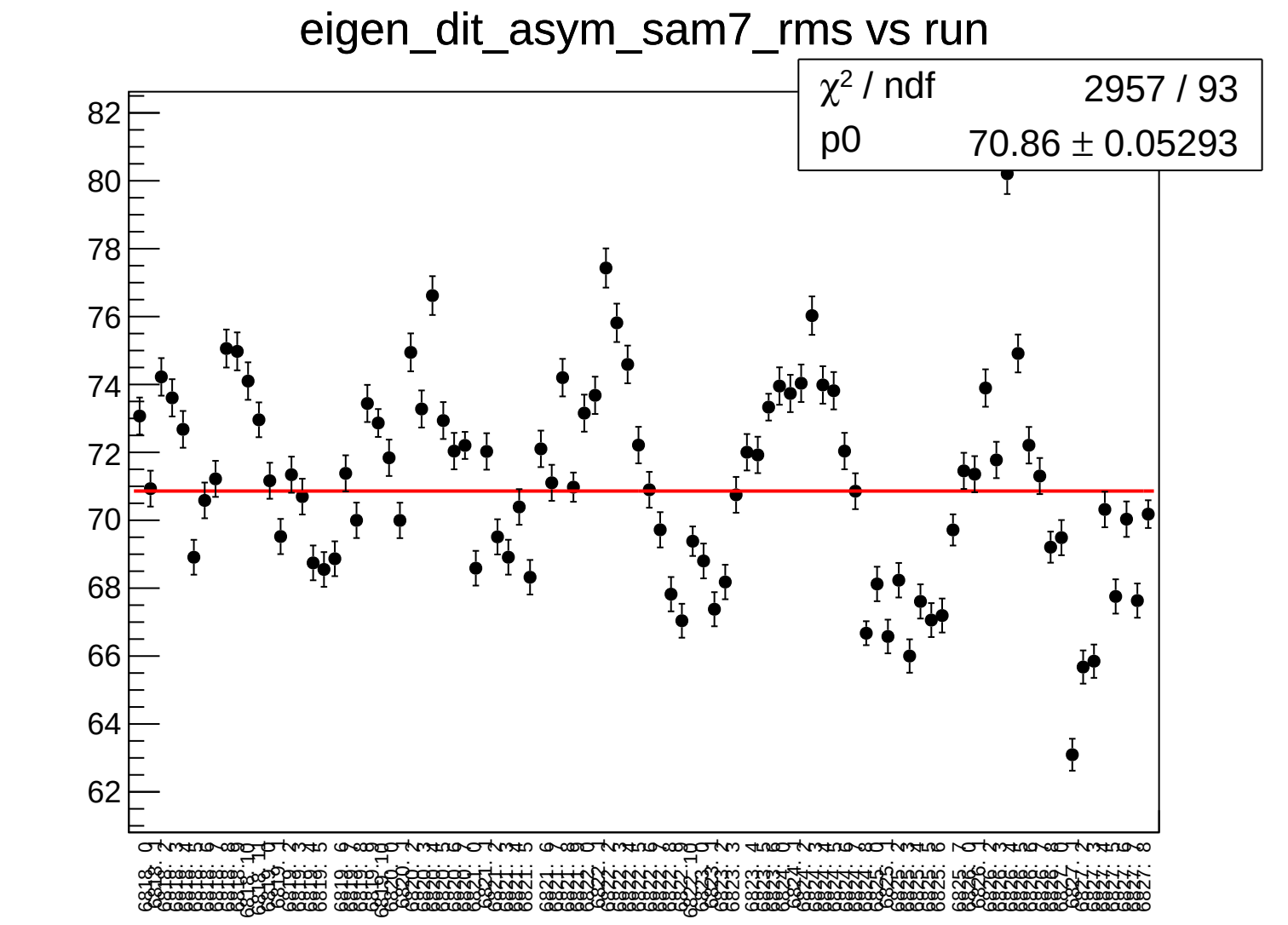

asym_sam7_dit_correction_mean vs run
χ² / ndf 74.31 / 93
p0 −628.1 ± 412.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −181.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

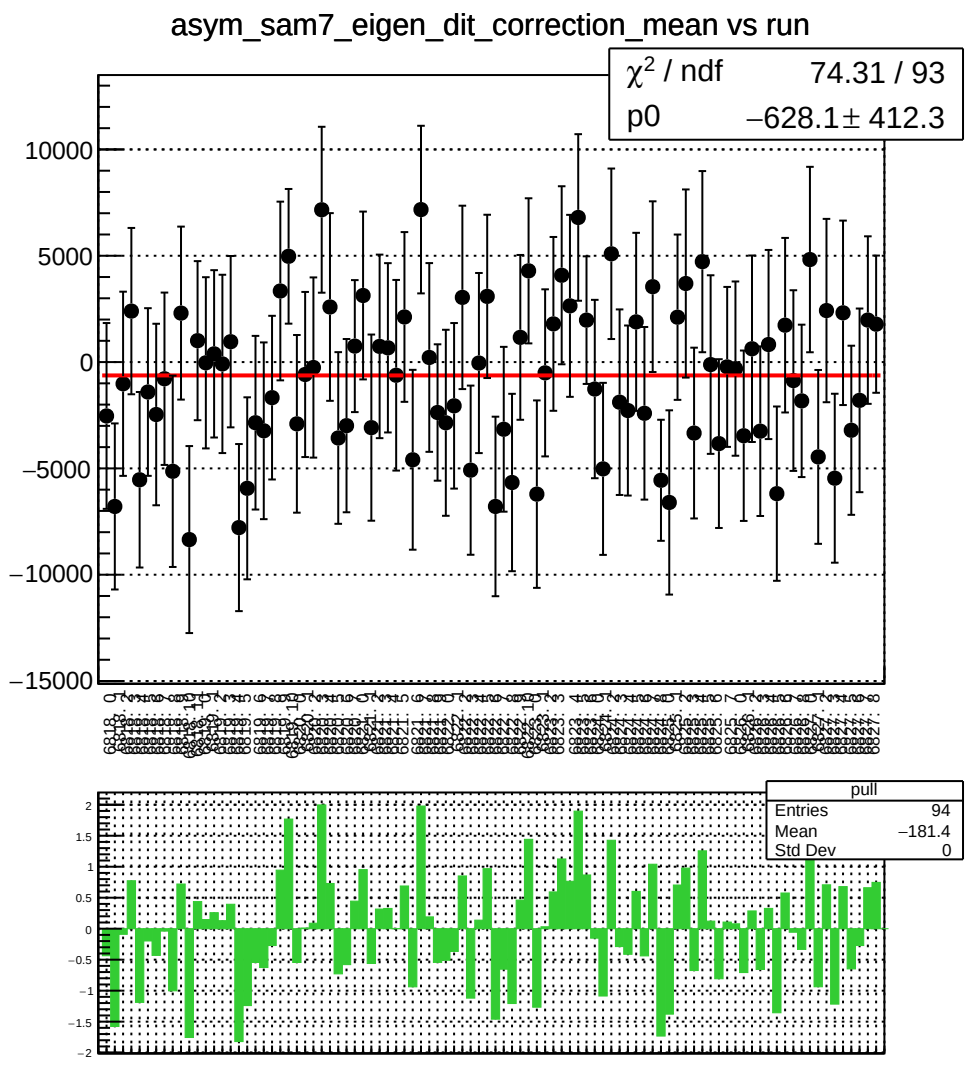

pull1D
Entries 94
Mean −0.009287
Std Dev 0.8891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

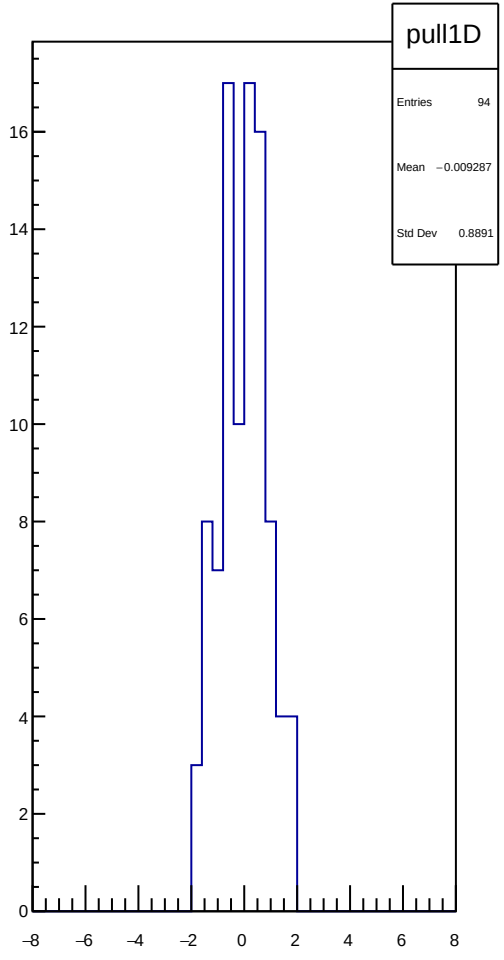

asym_sam7_dit_correction_rms vs run
χ² / ndf 3032 / 93
p0 390.3 ± 0.2916
430
420
410
400
390
380
370
360

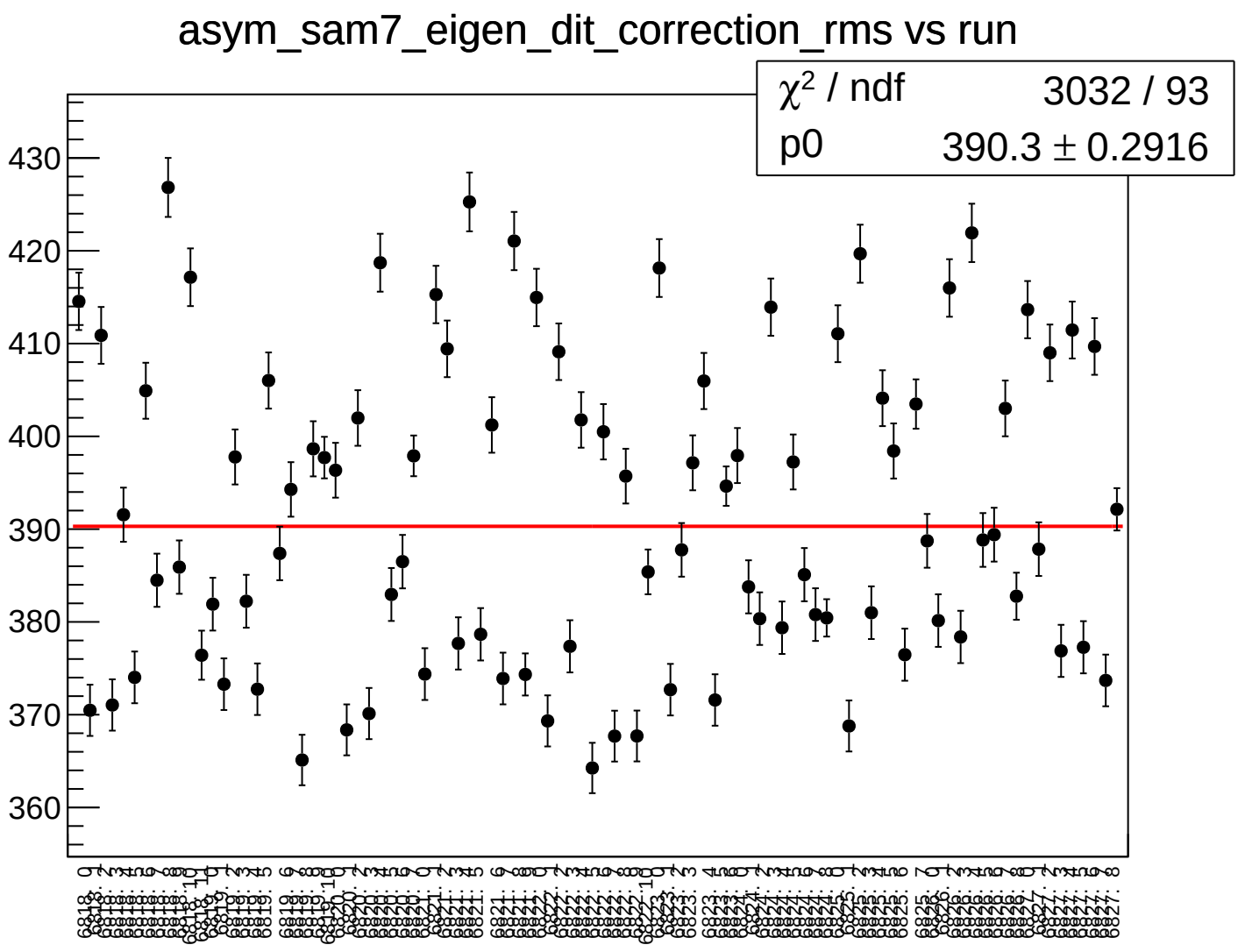

eigen_dit_asym_sam7_mean vs run
χ² / ndf 83.52 / 93
p0 −223.2 ± 74.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −2697
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

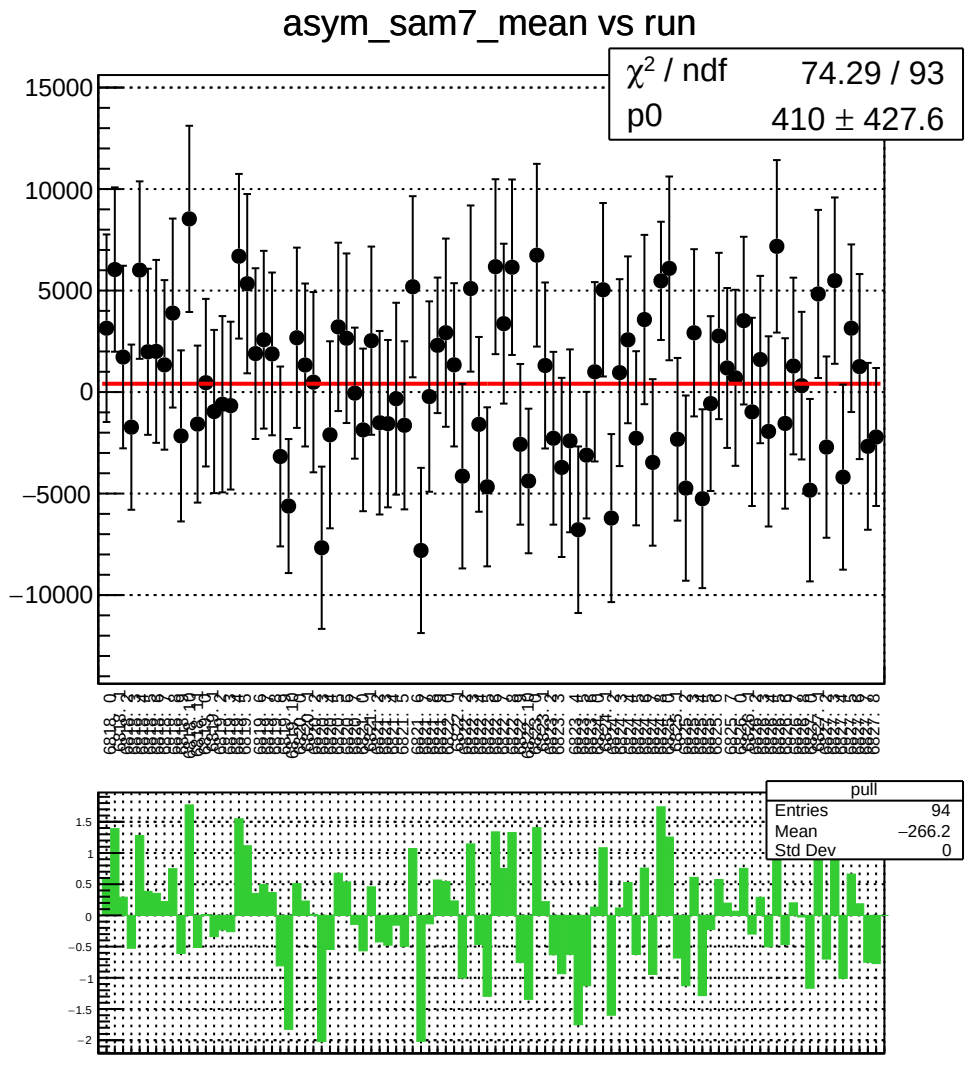

pull1D
Entries 94
Mean 0.001383
Std Dev 0.9426
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

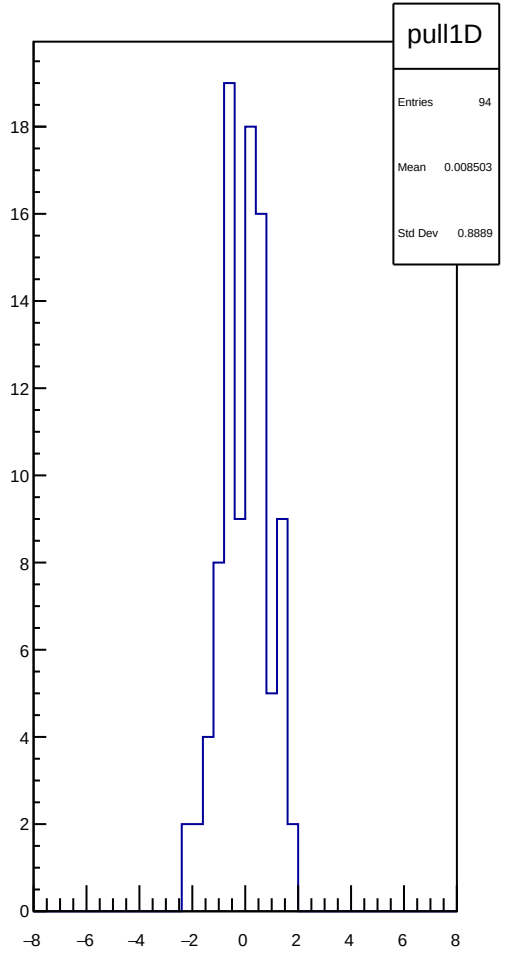

eigen_dit_asym_sam7_rms vs run
χ² / ndf 2957 / 93
p0 70.86 ± 0.05293
82
80
78
76
74
72
70
68
66
64
62

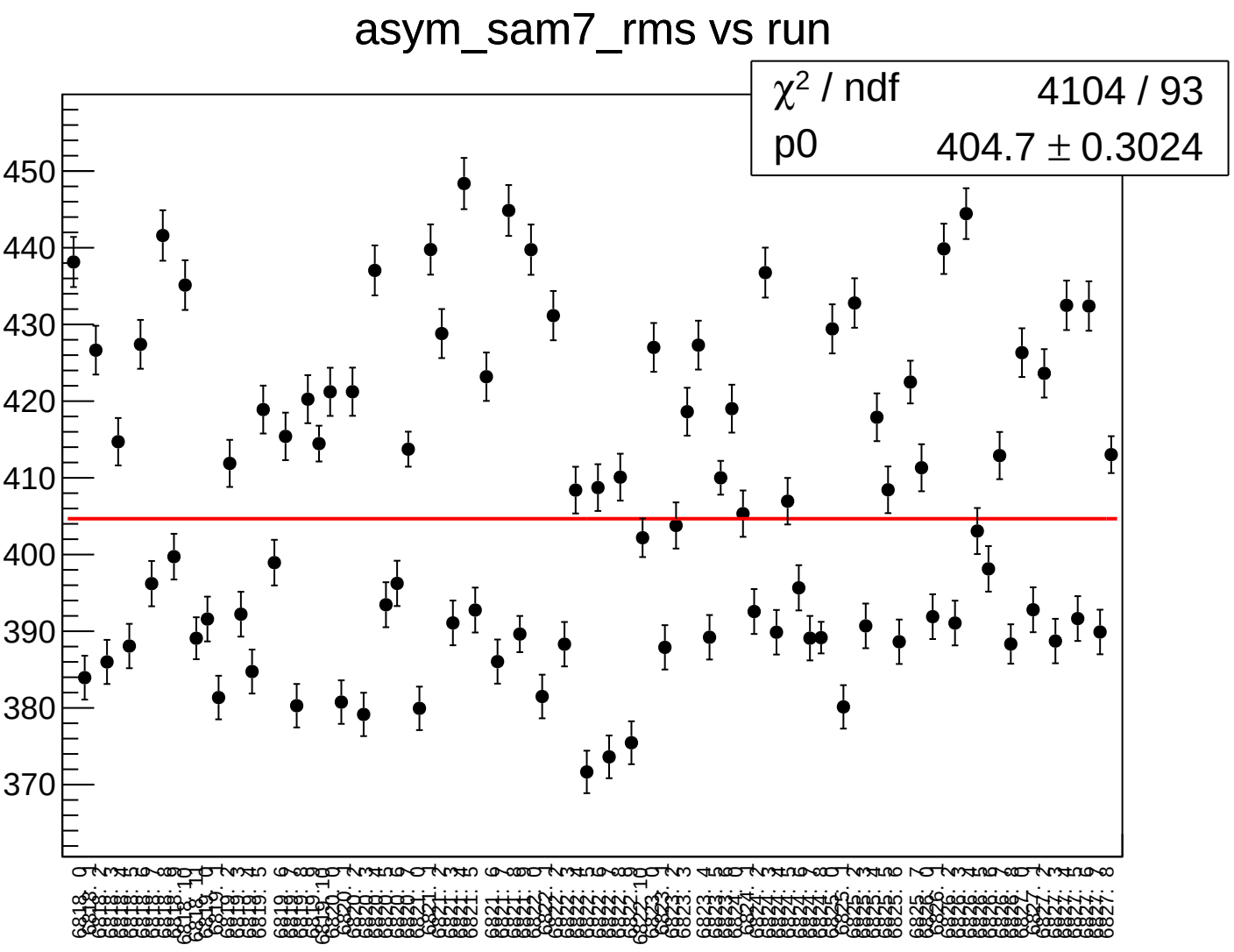

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 74.31 / 93
p0 −628.1 ± 412.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −181.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

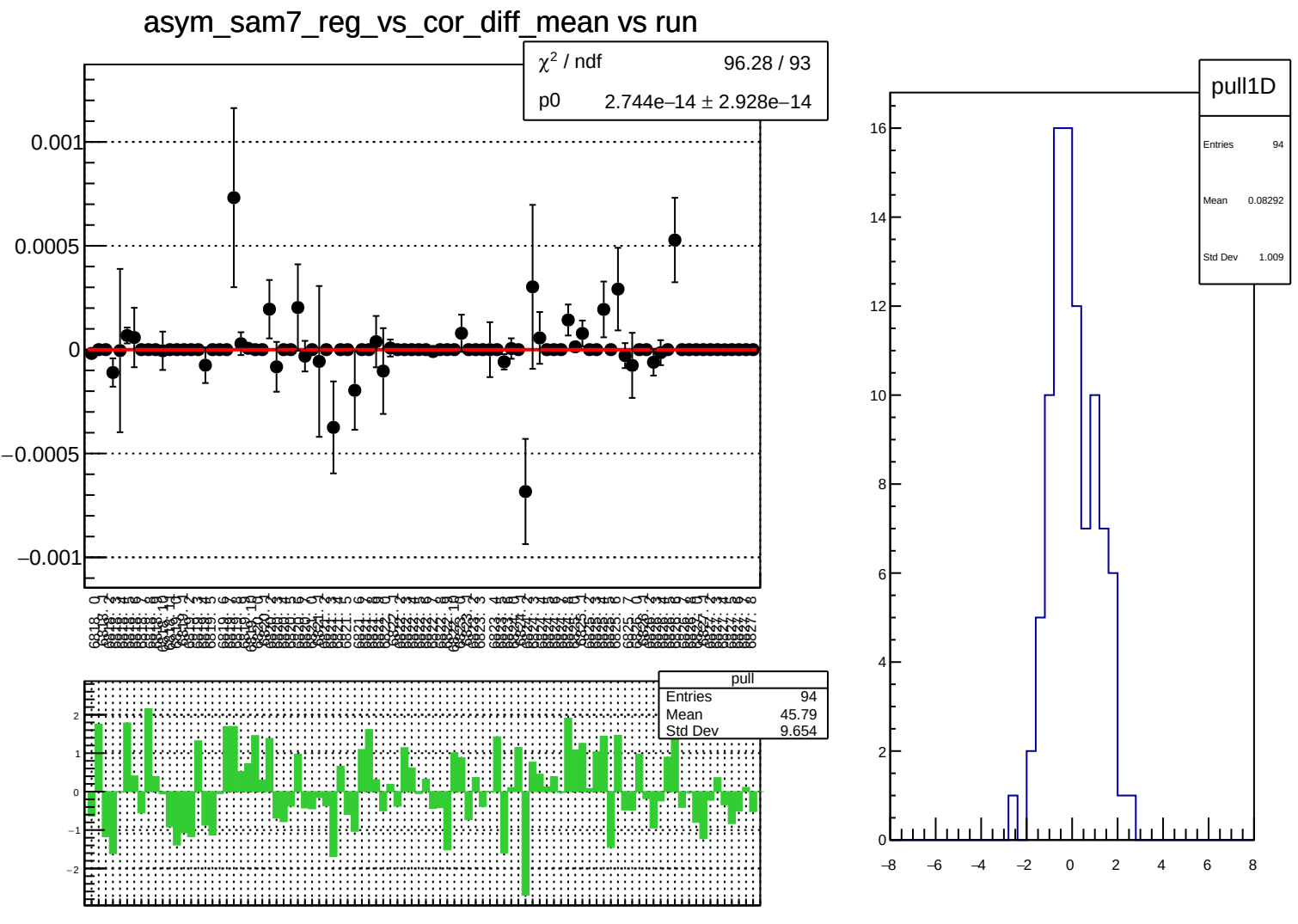

pull1D
Entries 94
Mean −0.009287
Std Dev 0.8891
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

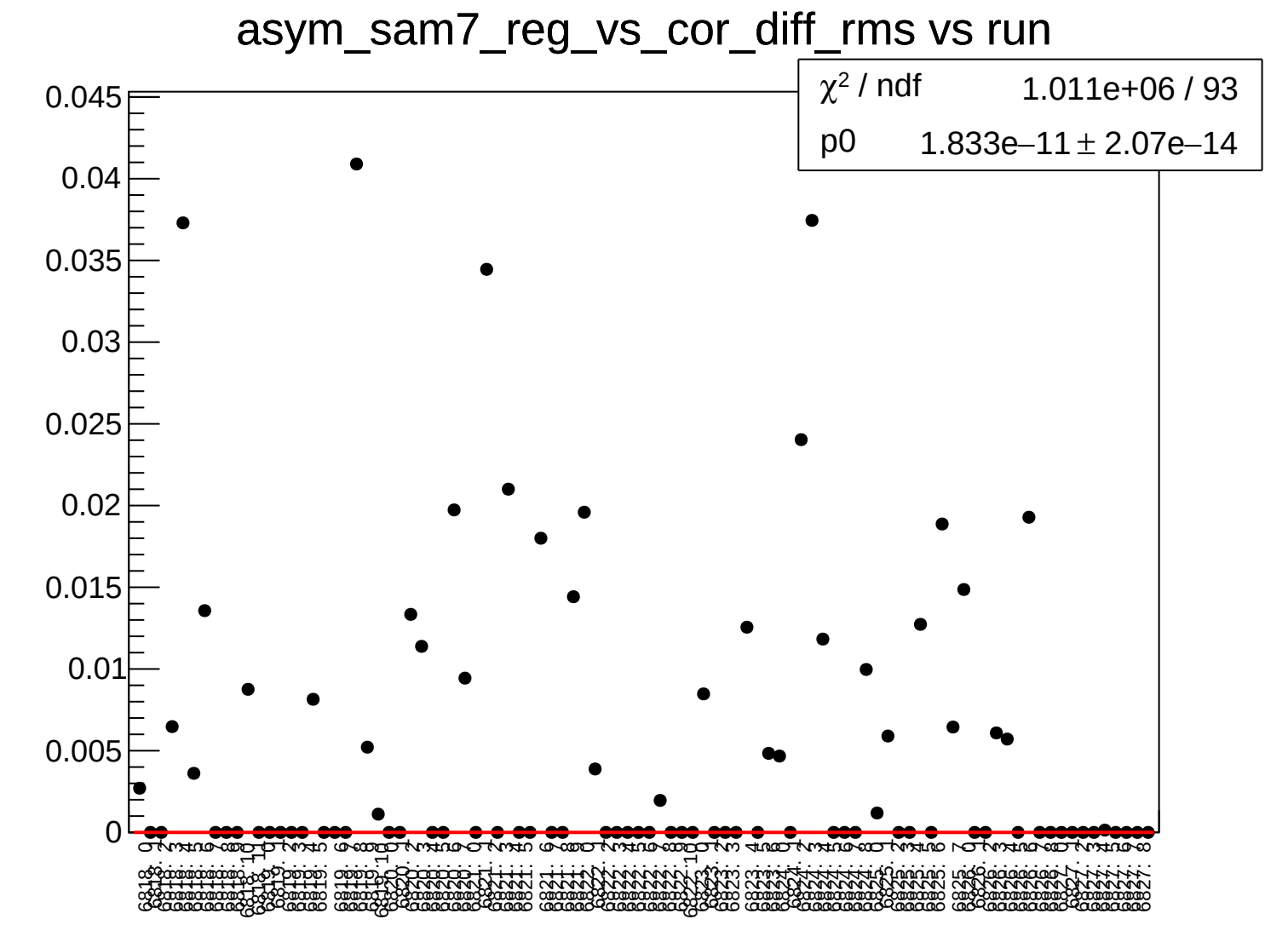

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 3032 / 93
p0 390.3 ± 0.2916
430
420
410
400
390
380
370
360

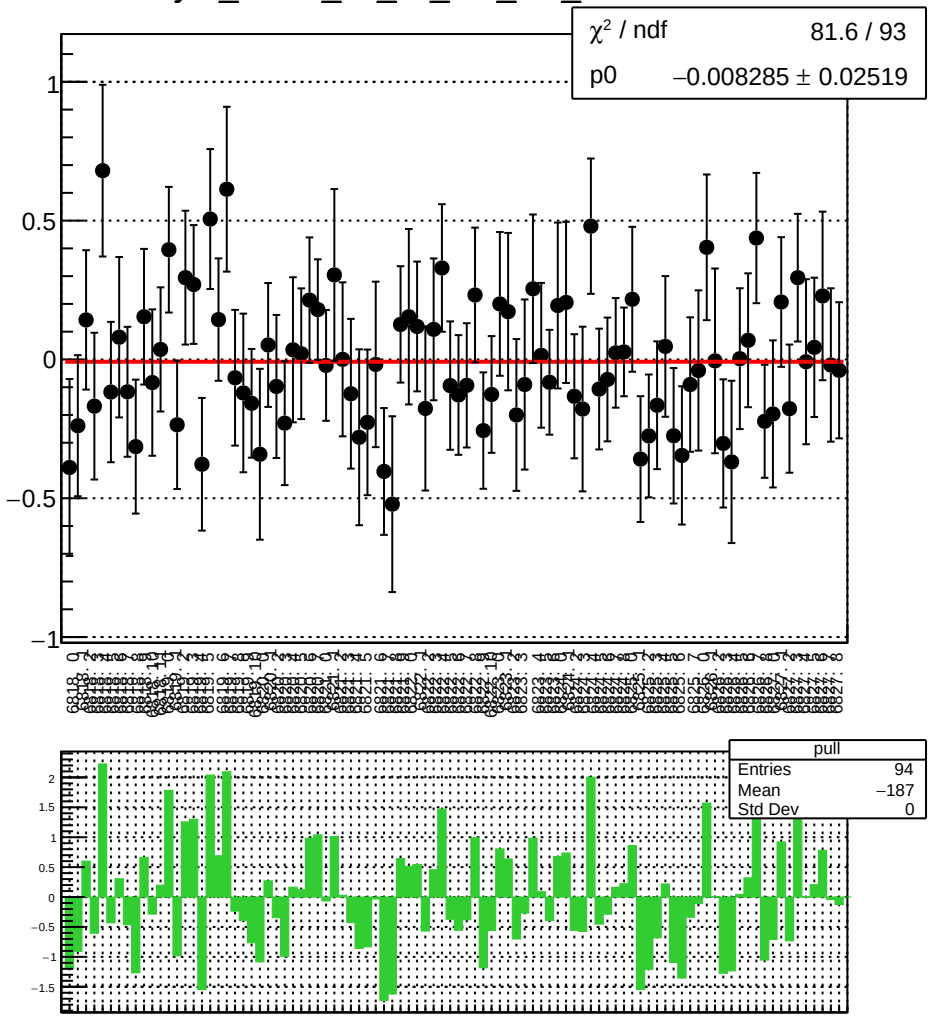

asym_sam7_mean vs run
χ² / ndf 74.29 / 93
p0 410 ± 427.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −266.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

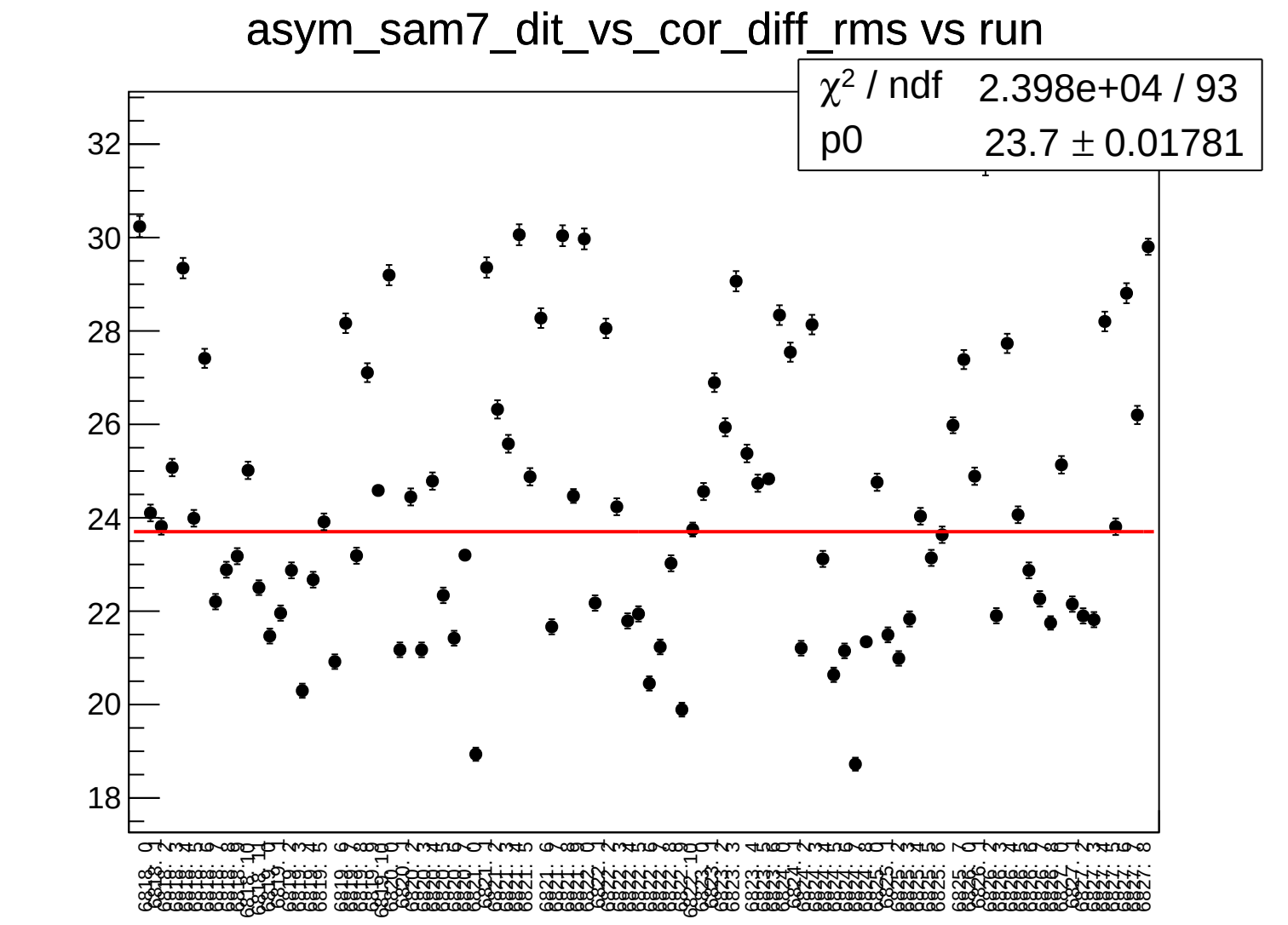

pull1D
Entries 94
Mean 0.008503
Std Dev 0.8889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

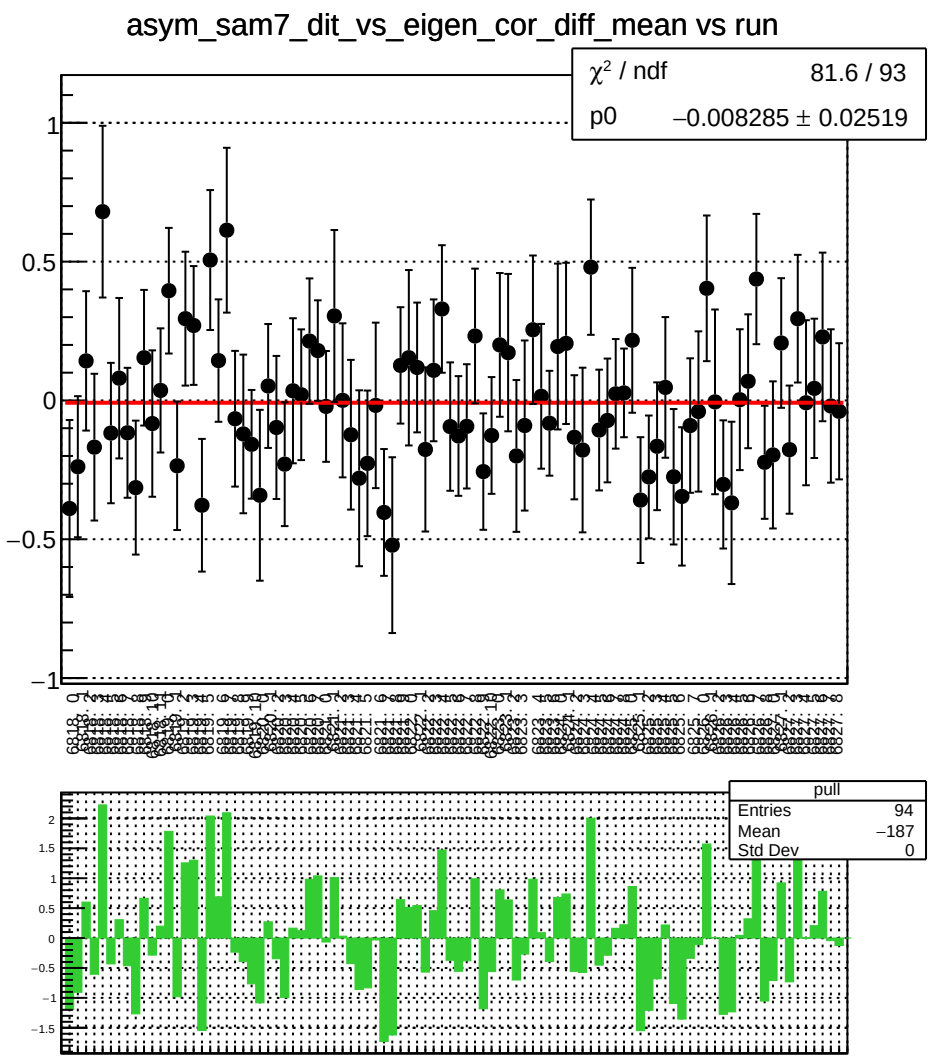

asym_sam7_rms vs run
χ² / ndf 4104 / 93
p0 404.7 ± 0.3024
450
440
430
420
410
400
390
380
370

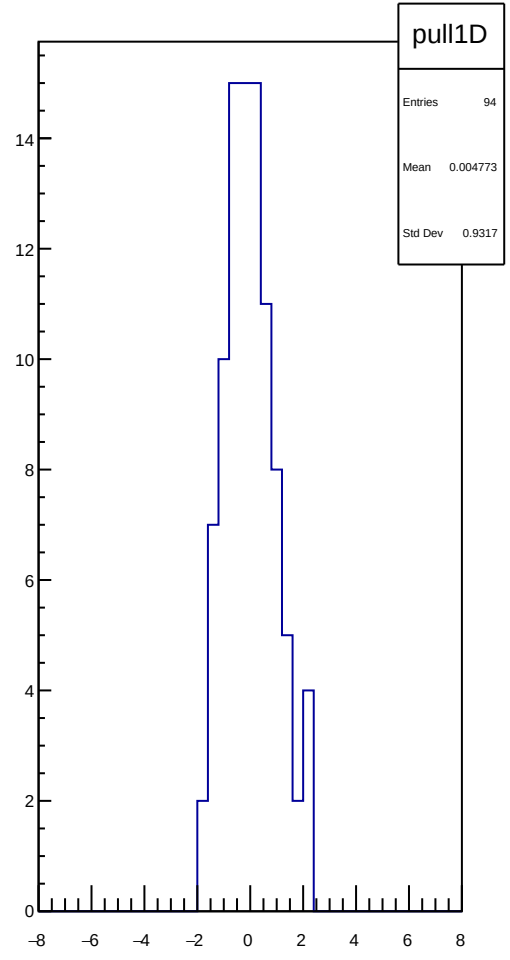

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 96.28 / 93
p0 2.744e−14 ± 2.928e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 45.79
Std Dev 9.654
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.08292
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

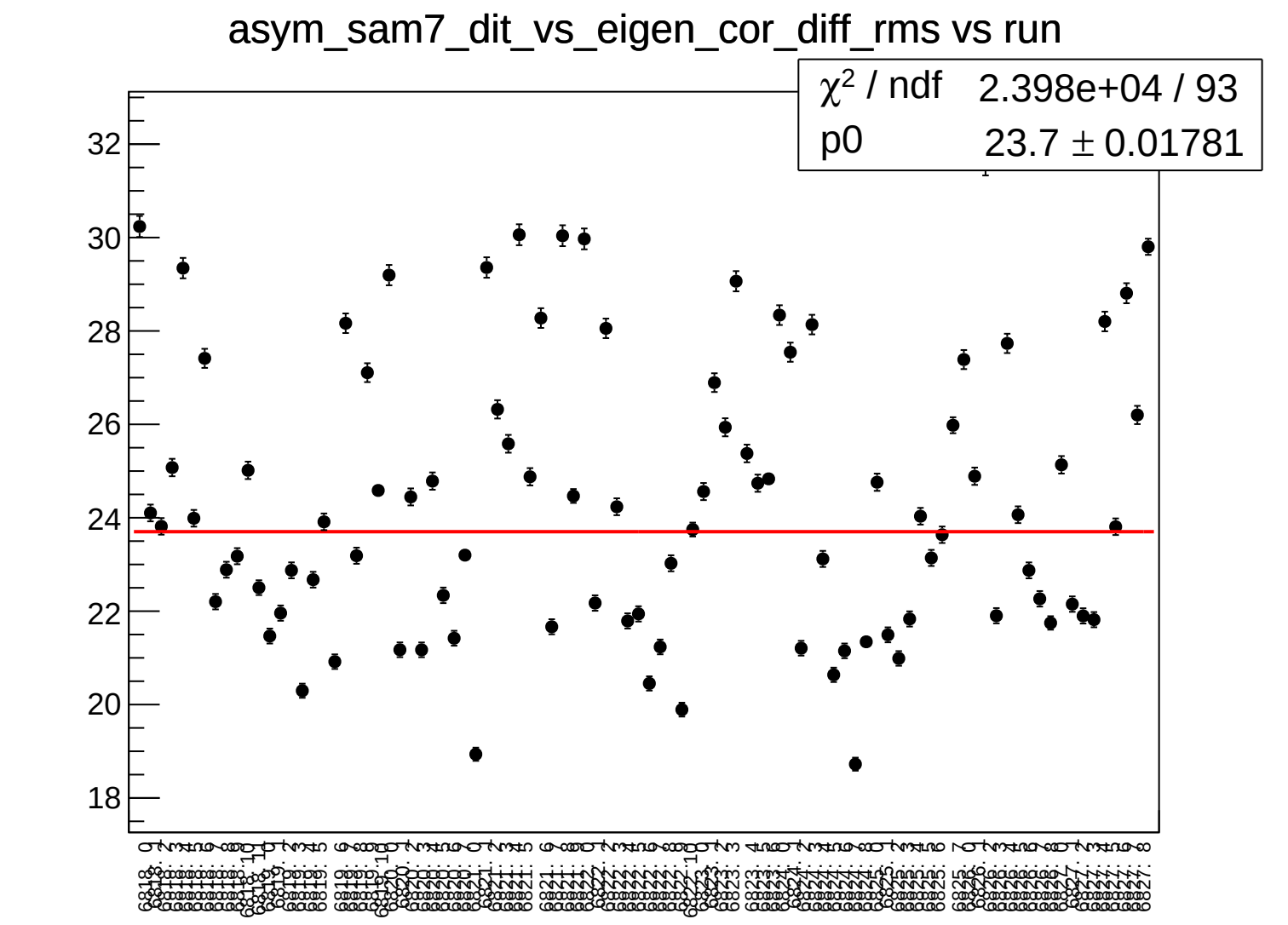

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.011e+06 / 93
p0 1.833e−11 ± 2.07e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

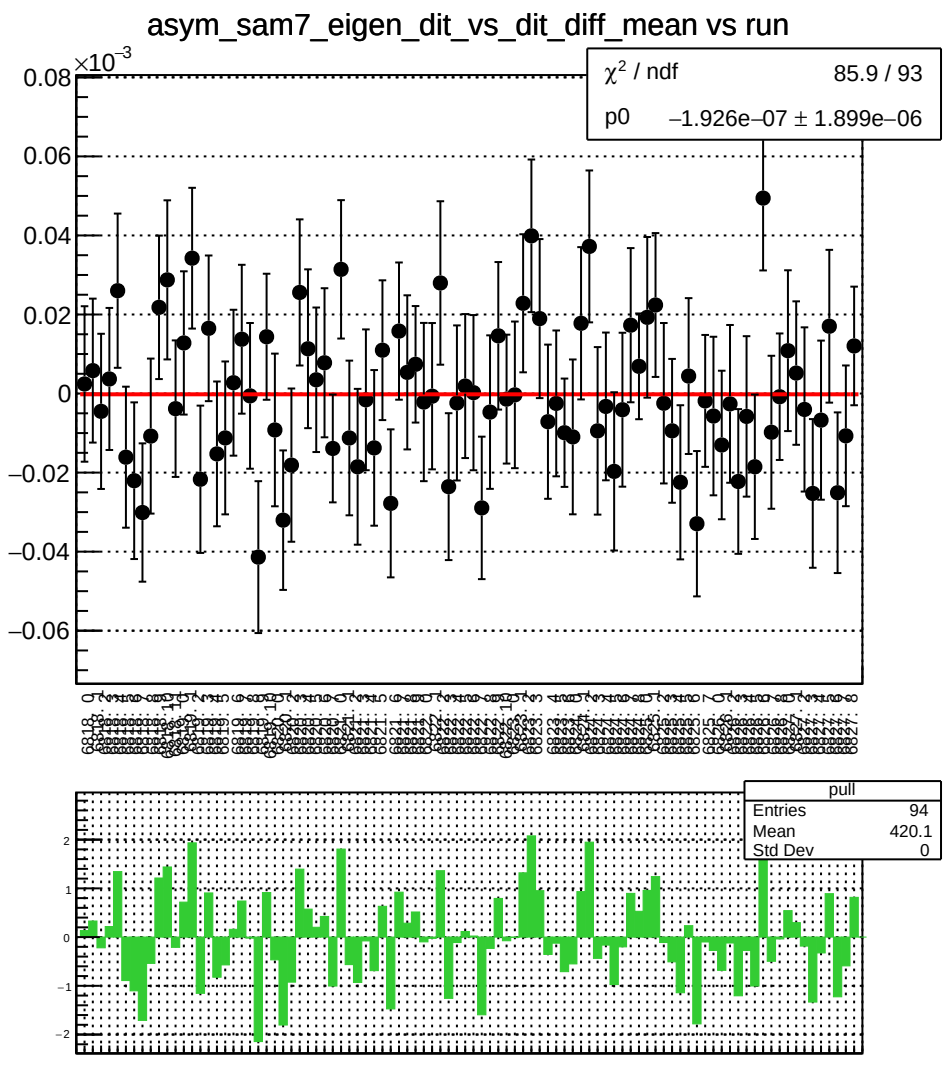

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 93
p0 −0.008285 ± 0.02519
pull
Entries 94
Mean −187
Std Dev 0
pull1D
Entries 94
Mean 0.004773
Std Dev 0.9317

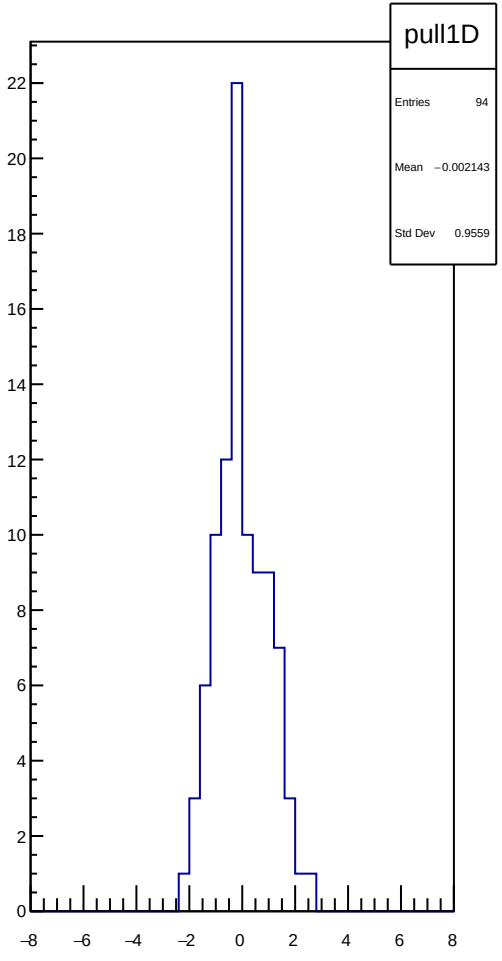

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.398e+04 / 93
p0 23.7 ± 0.01781
32
30
28
26
24
22
20
18

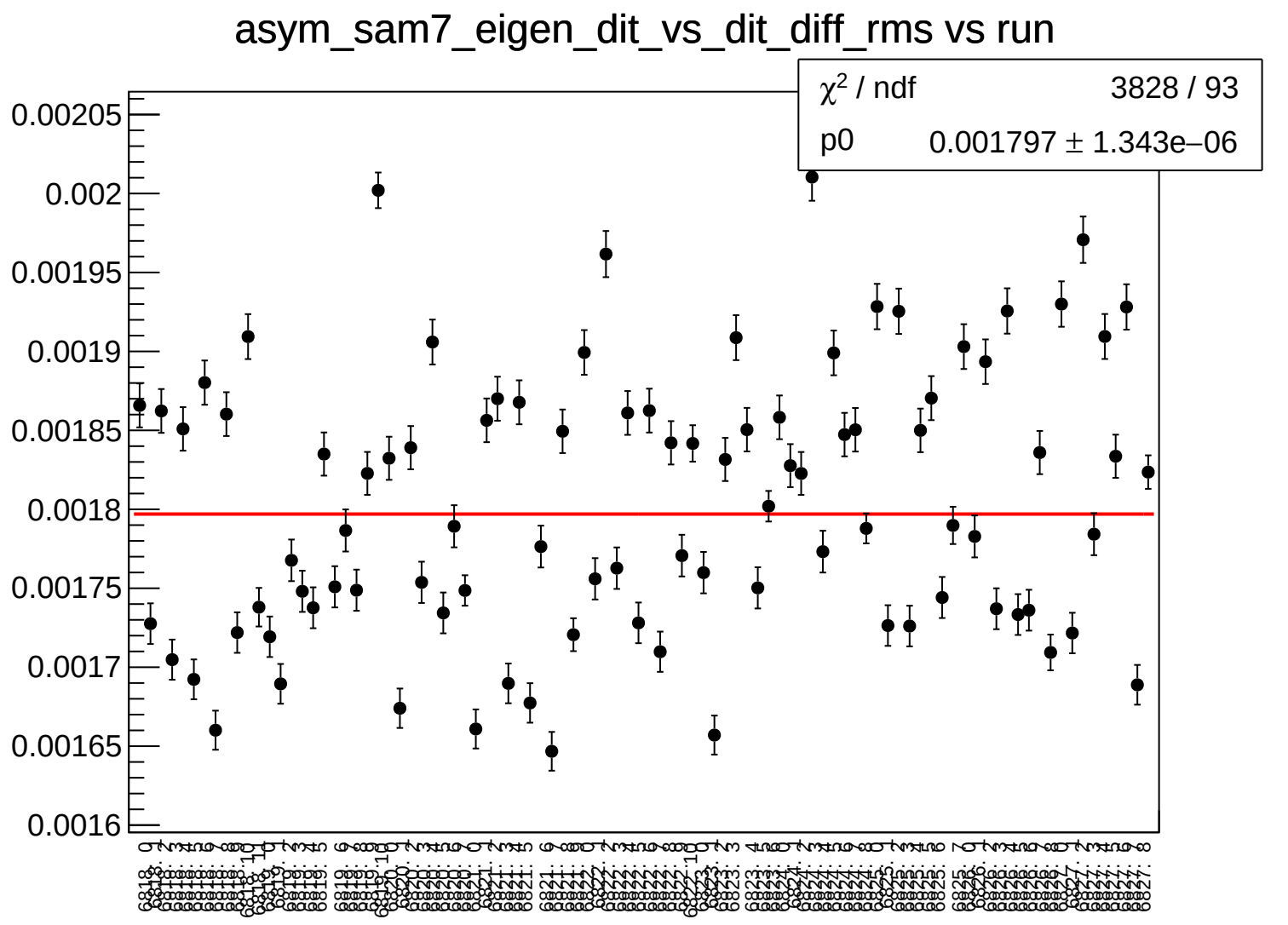

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 93
p0 −0.008285 ± 0.02519
pull
Entries 94
Mean −187
Std Dev 0

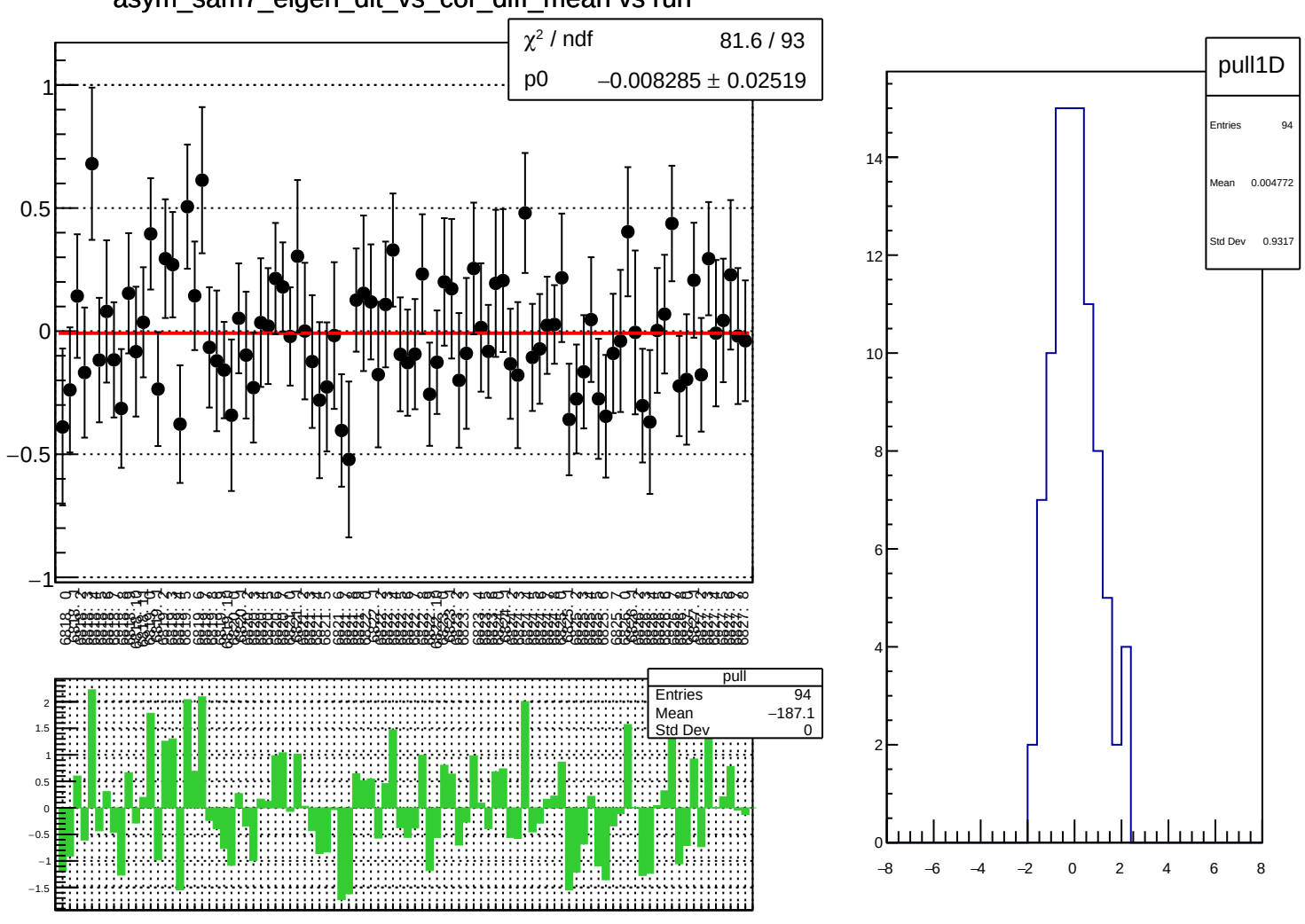

pull1D
Entries 94
Mean 0.004773
Std Dev 0.9317

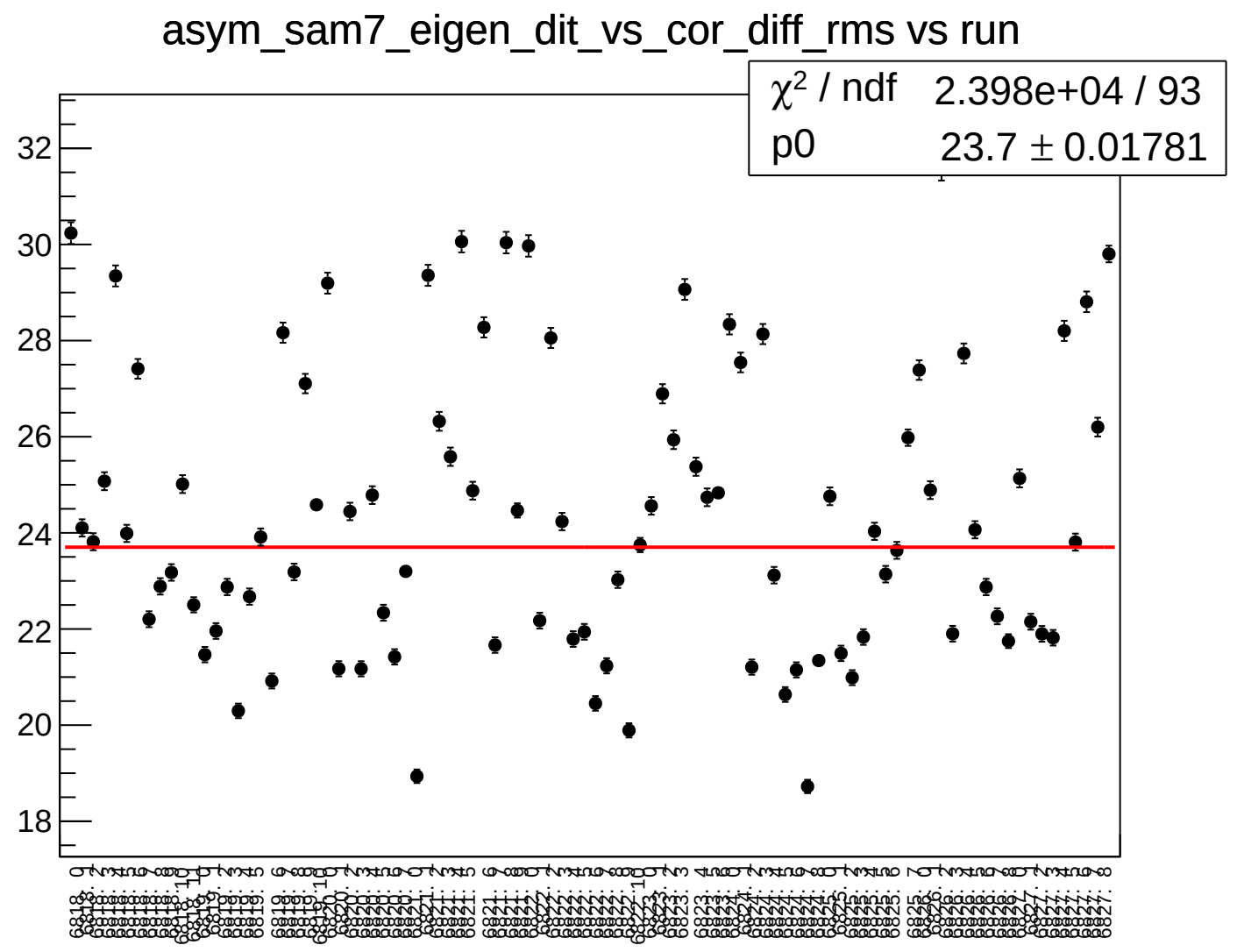

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.398e+04 / 93
p0 23.7 ± 0.01781
32
30
28
26
24
22
20
18

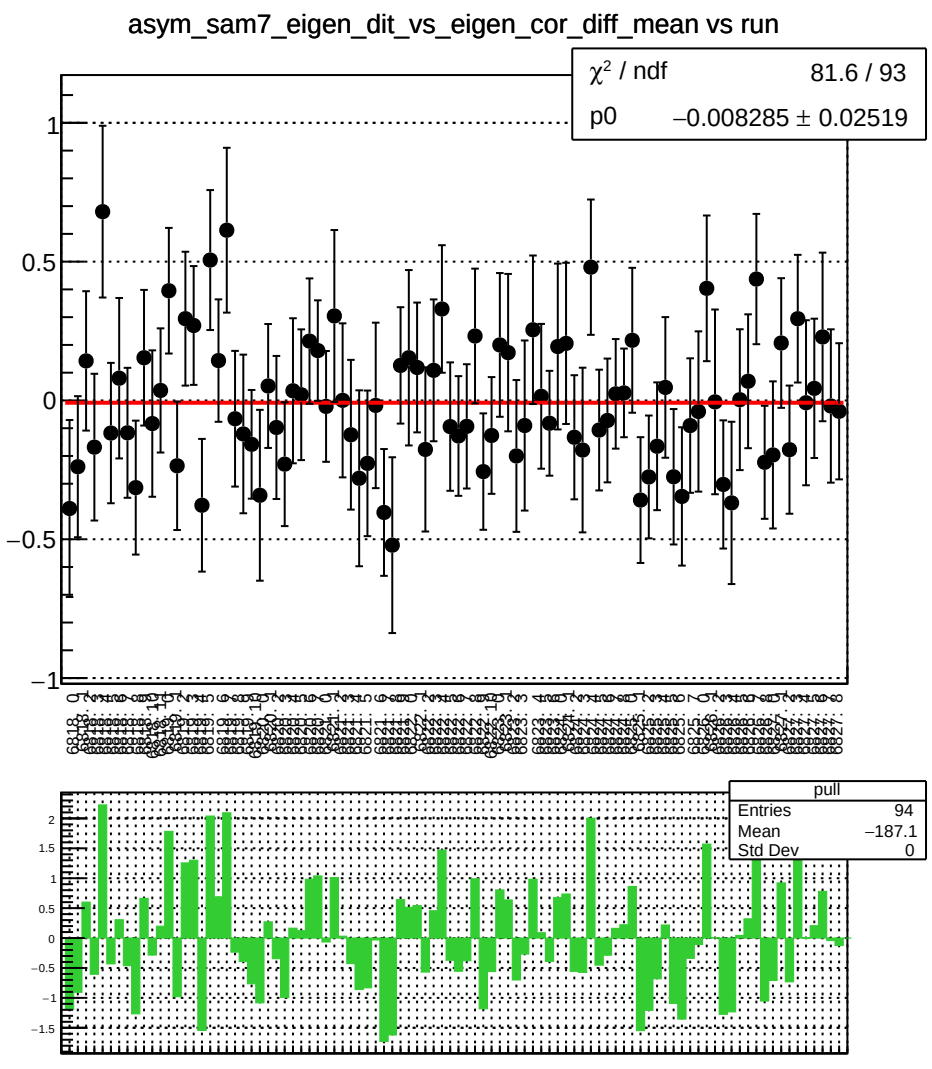

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.9 / 93
p0 −1.926e−07 ± 1.899e−06
pull
Entries 94
Mean 420.1
Std Dev 0

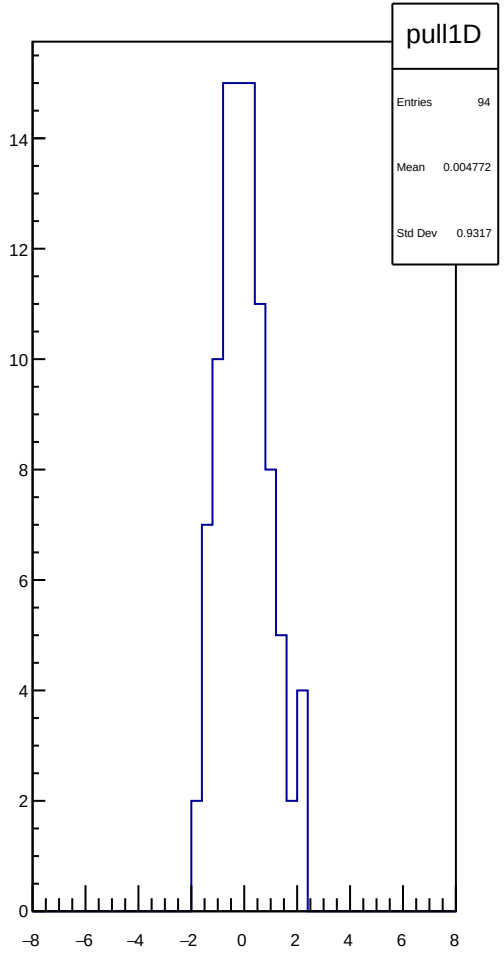

pull1D
Entries 94
Mean −0.002143
Std Dev 0.9559

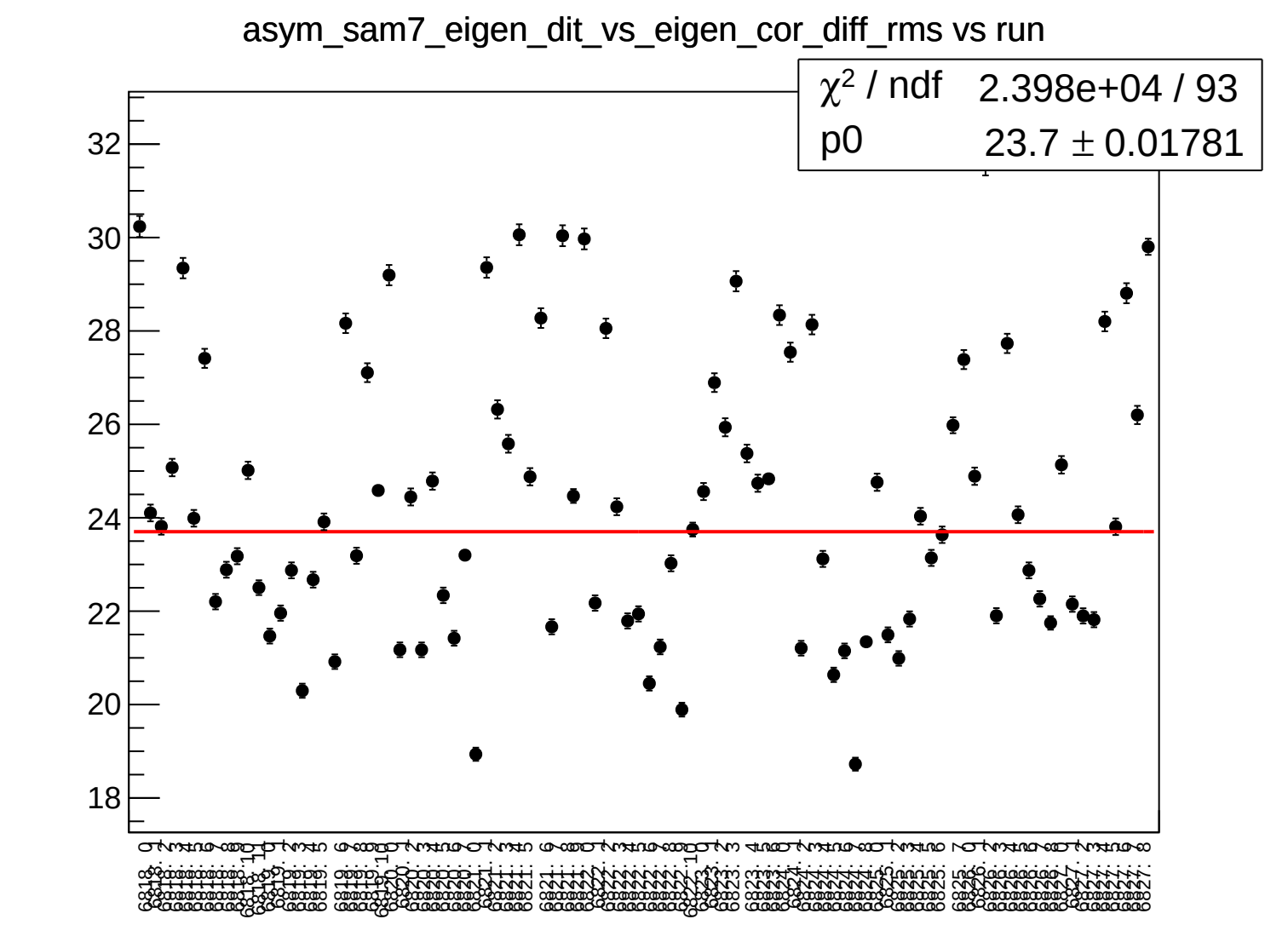

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3828 / 93
p0 0.001797 ± 1.343e−06
0.00205
0.002
0.00195
0.0019
0.00185
0.0018
0.00175
0.0017
0.00165
0.0016

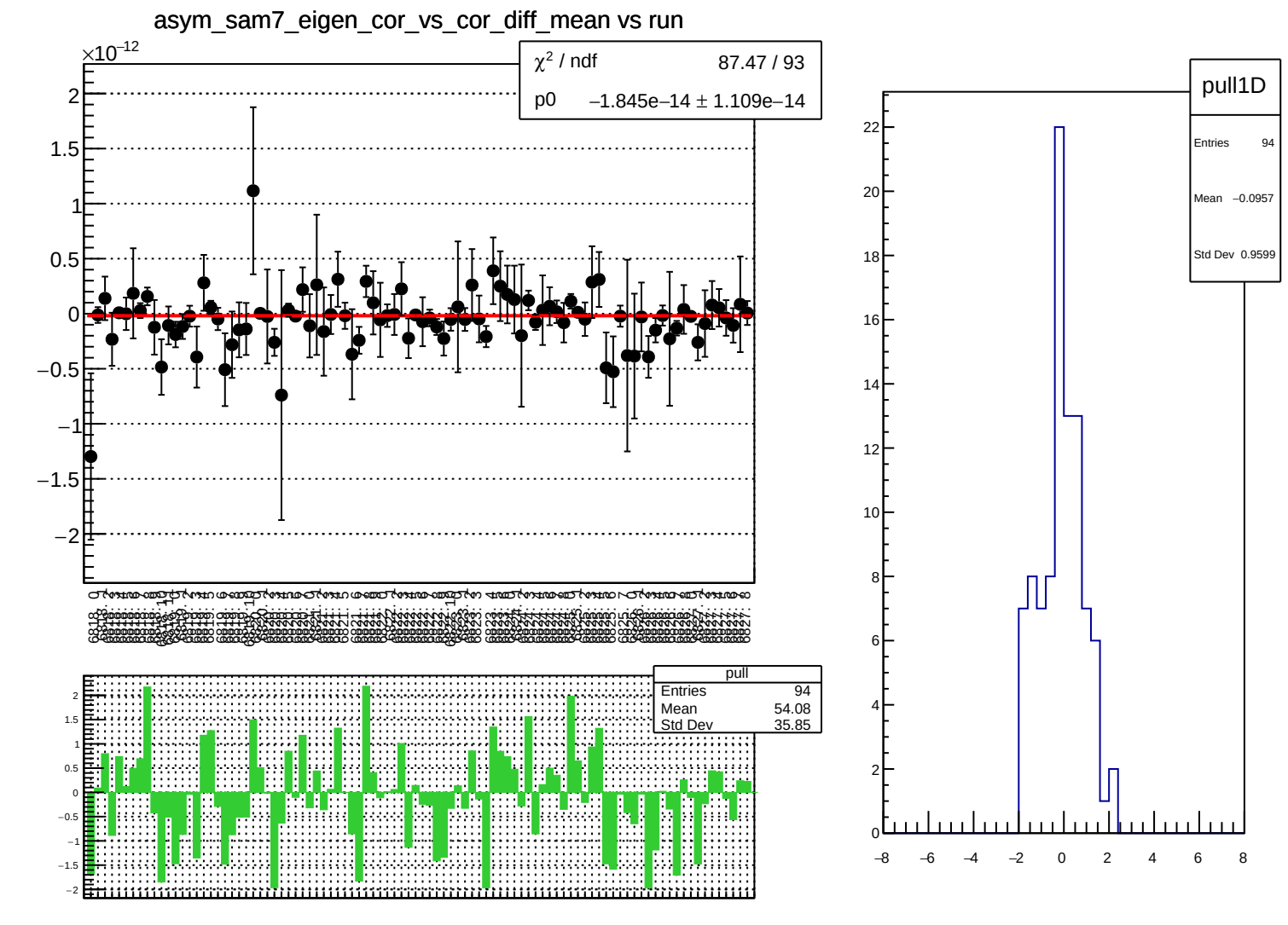

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 93
p0 −0.008285 ± 0.02519
pull
Entries 94
Mean −187.1
Std Dev 0
pull1D
Entries 94
Mean 0.004772
Std Dev 0.9317

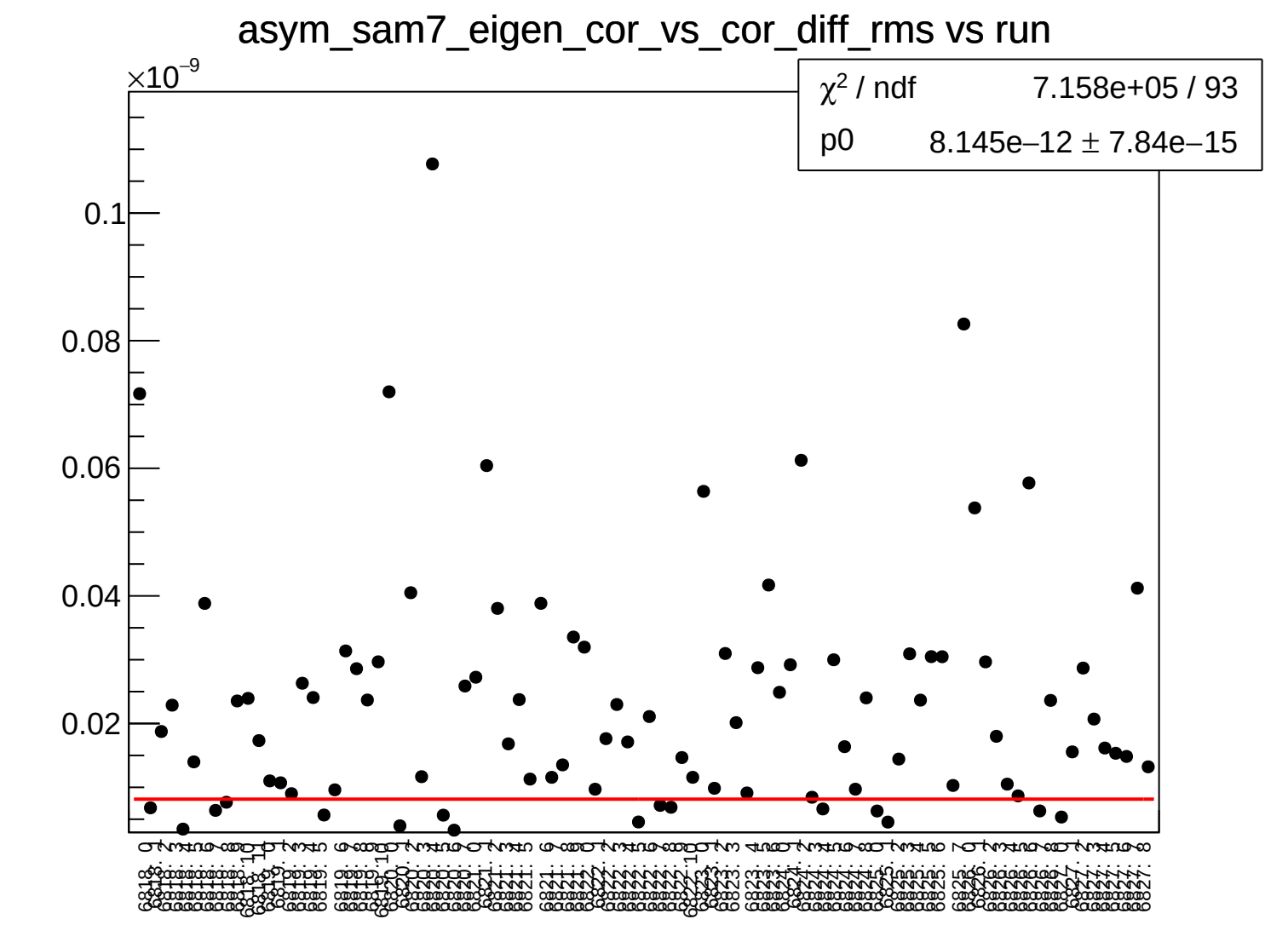

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.398e+04 / 93
p0 23.7 ± 0.01781
32
30
28
26
24
22
20
18

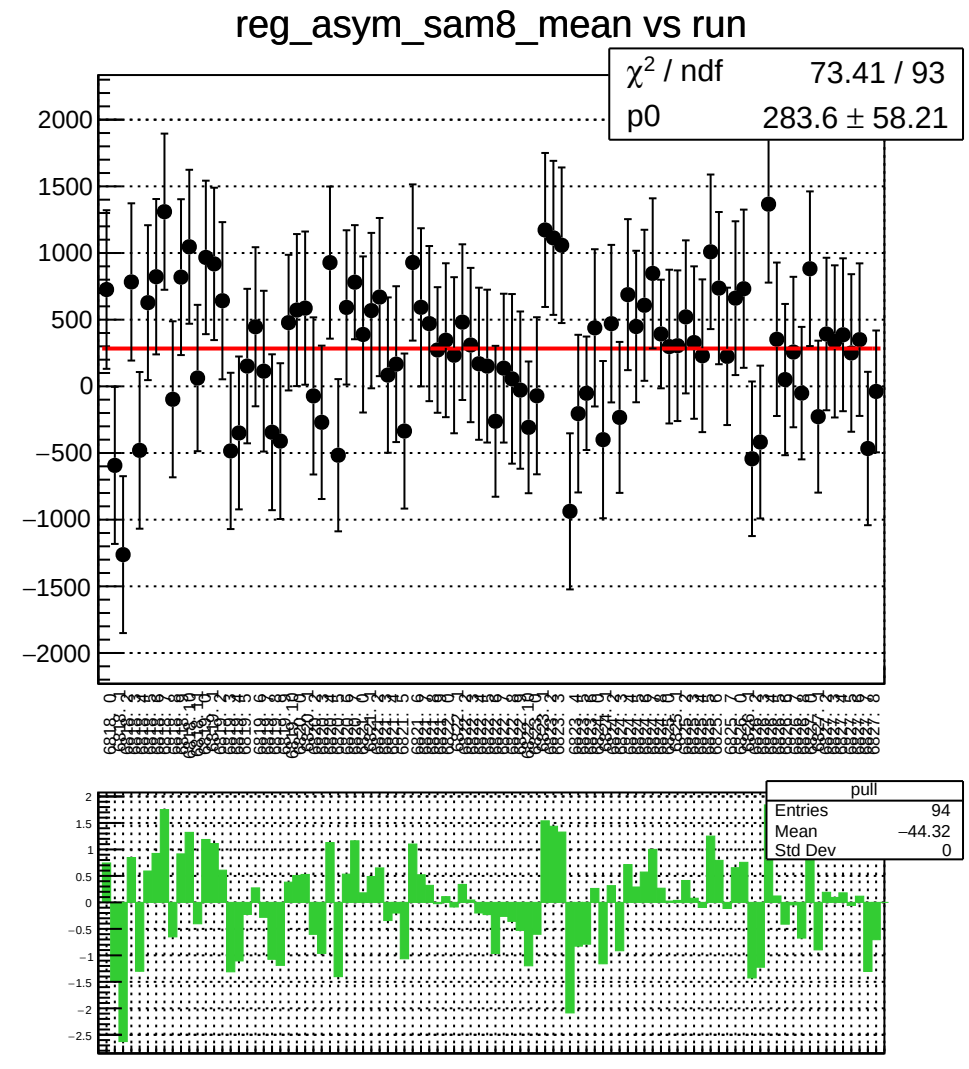

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 93
p0 −0.008285 ± 0.02519
pull
Entries 94
Mean −187.1
Std Dev 0

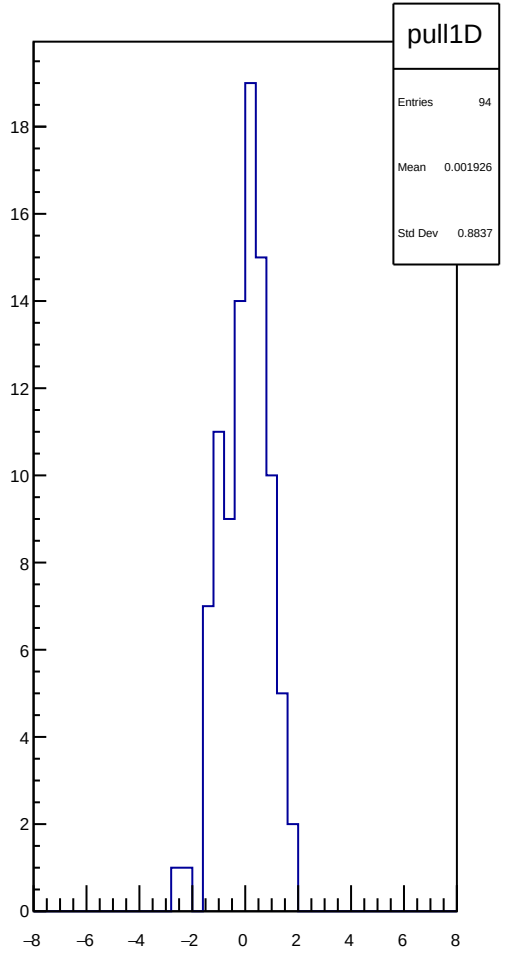

pull1D
Entries 94
Mean 0.004772
Std Dev 0.9317

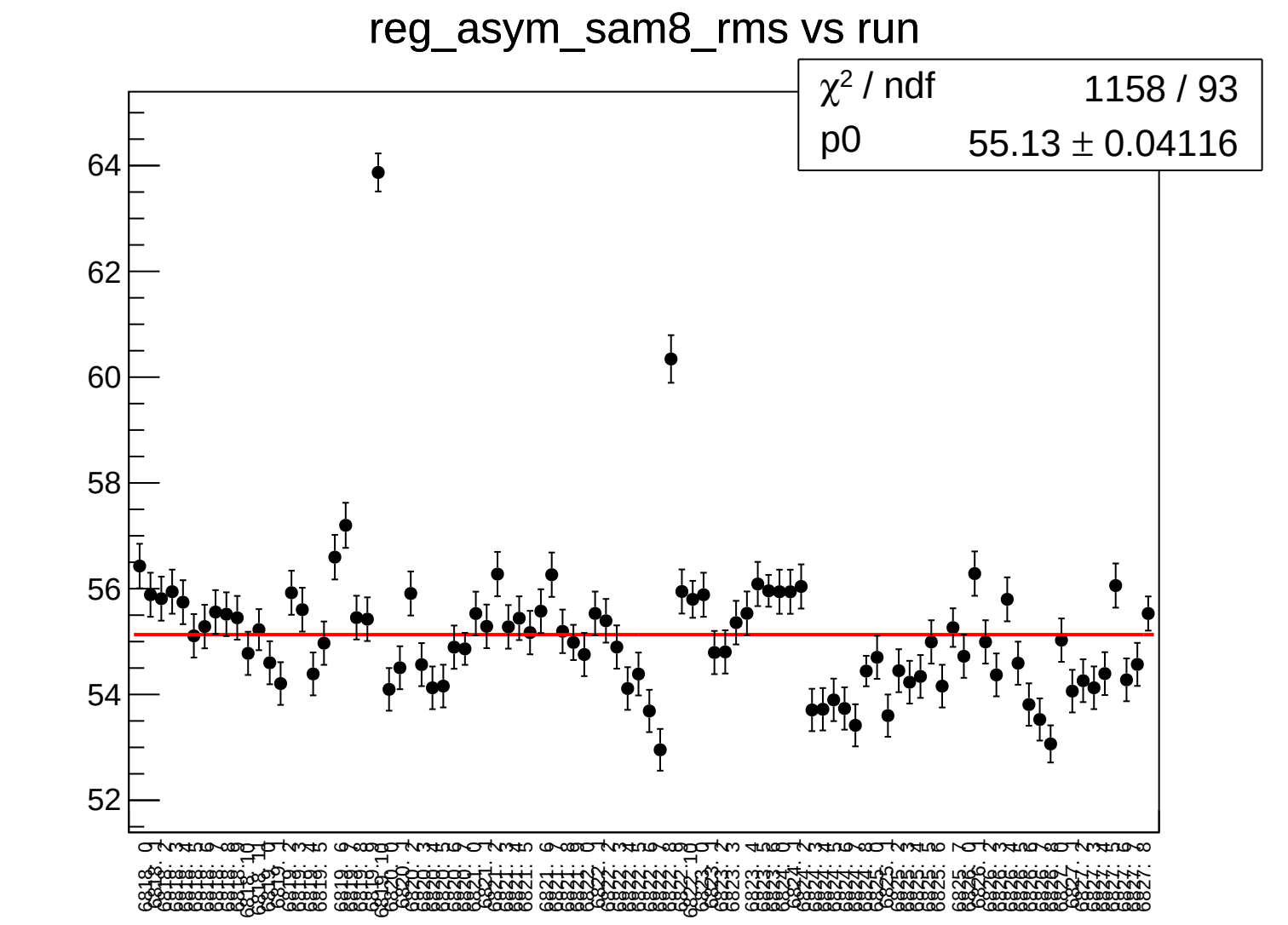

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.398e+04 / 93
p0 23.7 ± 0.01781
32
30
28
26
24
22
20
18

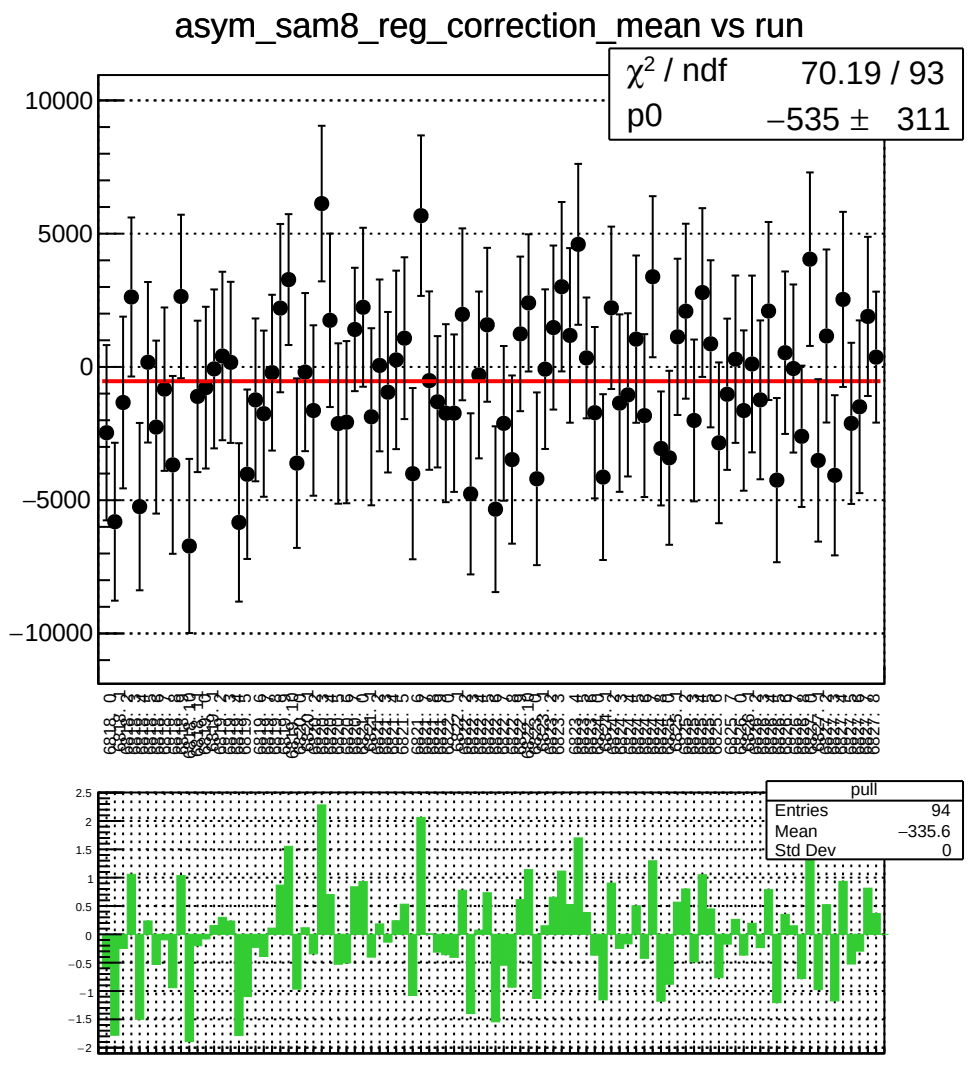

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.47 / 93
p0 −1.845e−14 ± 1.109e−14
pull
Entries 94
Mean 54.08
Std Dev 35.85
pull1D
Entries 94
Mean −0.0957
Std Dev 0.9599

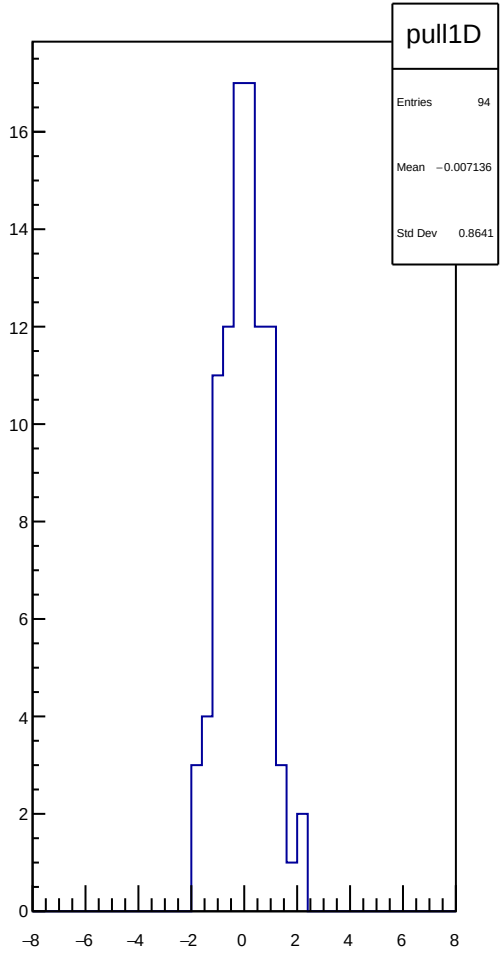

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.158e+05 / 93
p0 8.145e−12 ± 7.84e−15
0.1
0.08
0.06
0.04
0.02

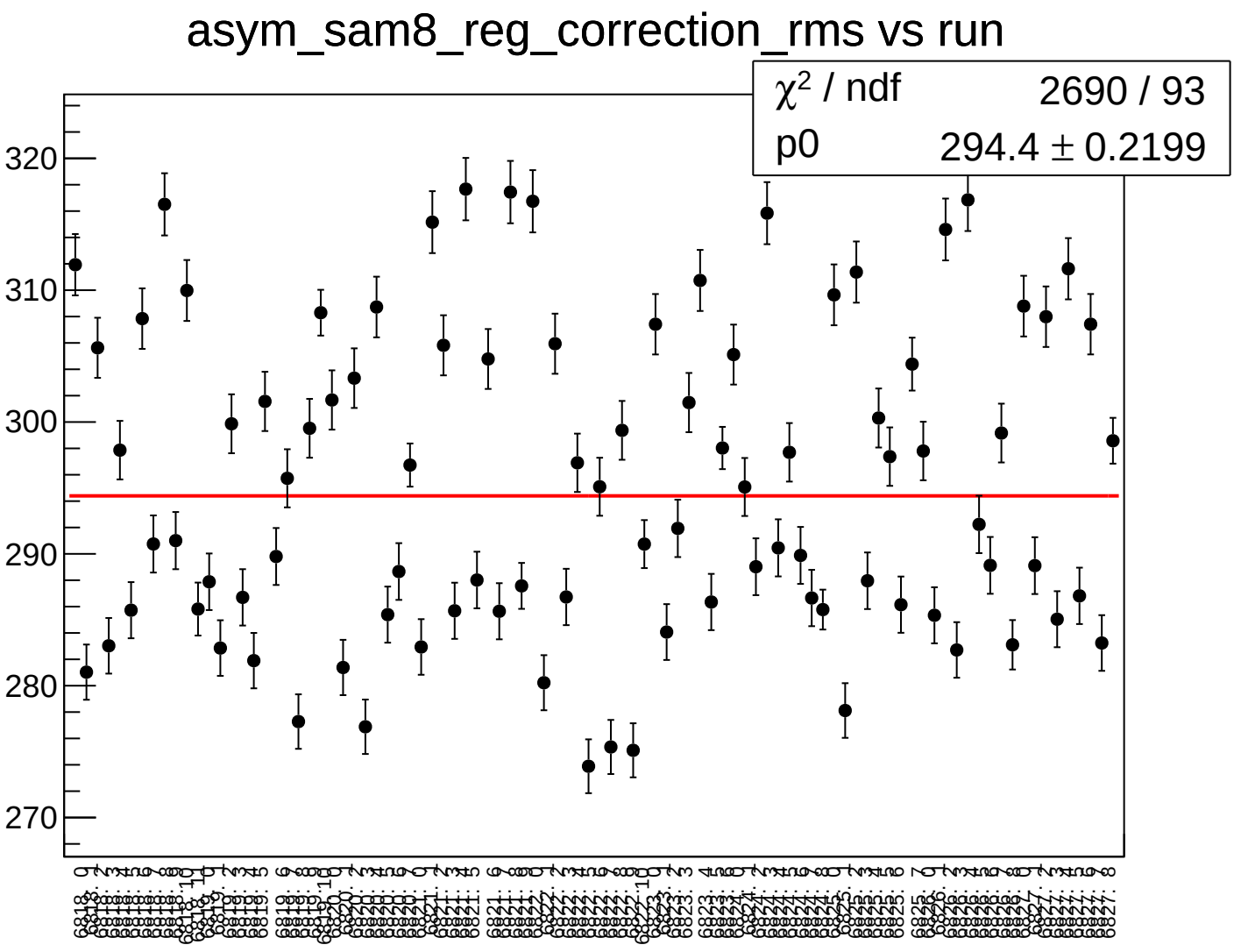

reg_asym_sam8_mean vs run
χ² / ndf 73.41 / 93
p0 283.6 ± 58.21
pull
Entries 94
Mean −44.32
Std Dev 0

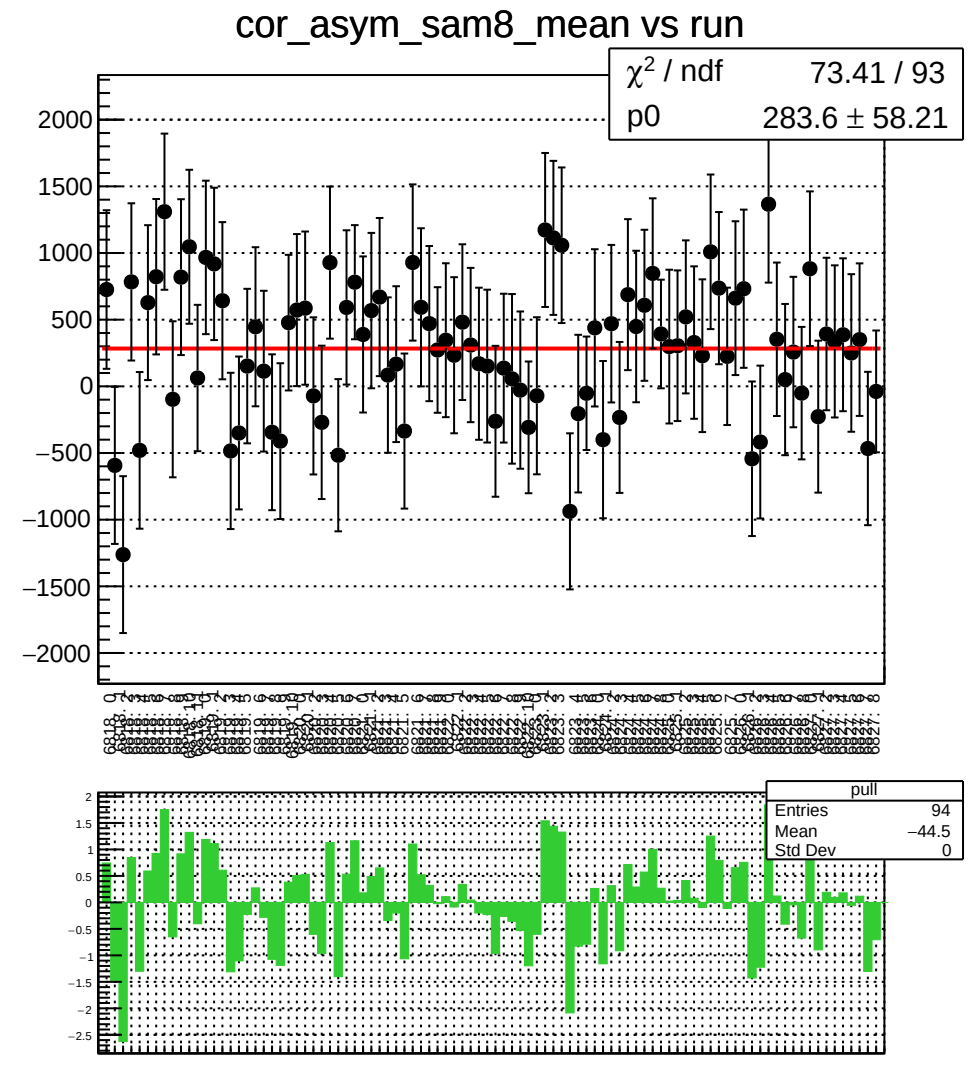

pull1D
Entries 94
Mean 0.001926
Std Dev 0.8837

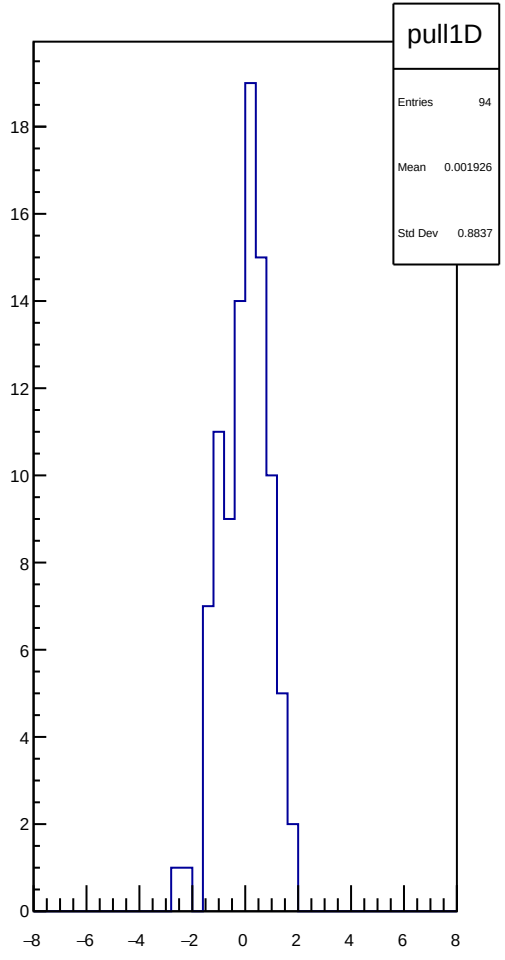

reg_asym_sam8_rms vs run
χ² / ndf 1158 / 93
p0 55.13 ± 0.04116
64
62
60
58
56
54
52

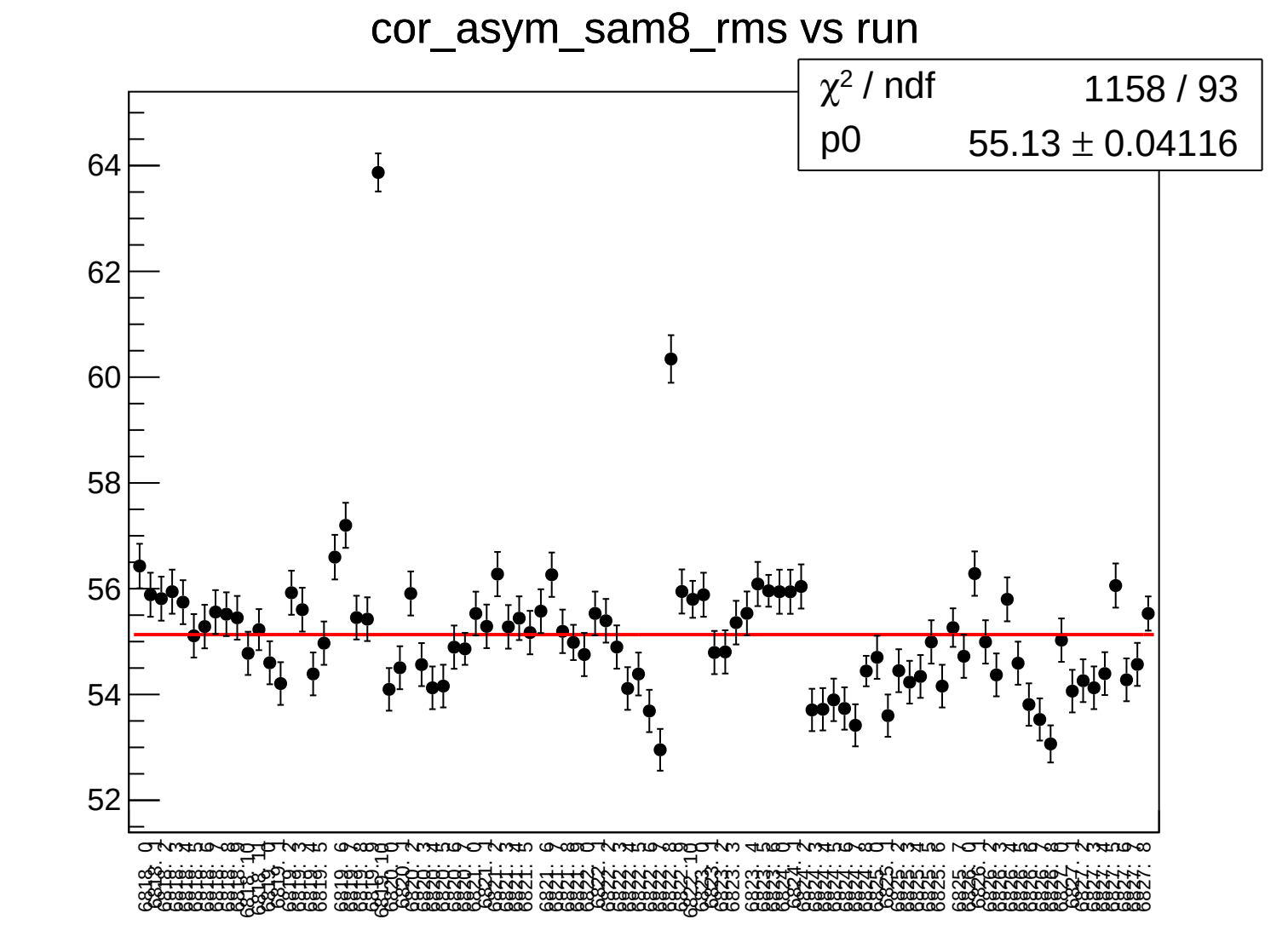

asym_sam8_reg_correction_mean vs run
χ² / ndf 70.19 / 93
p0 −535 ± 311
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −335.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

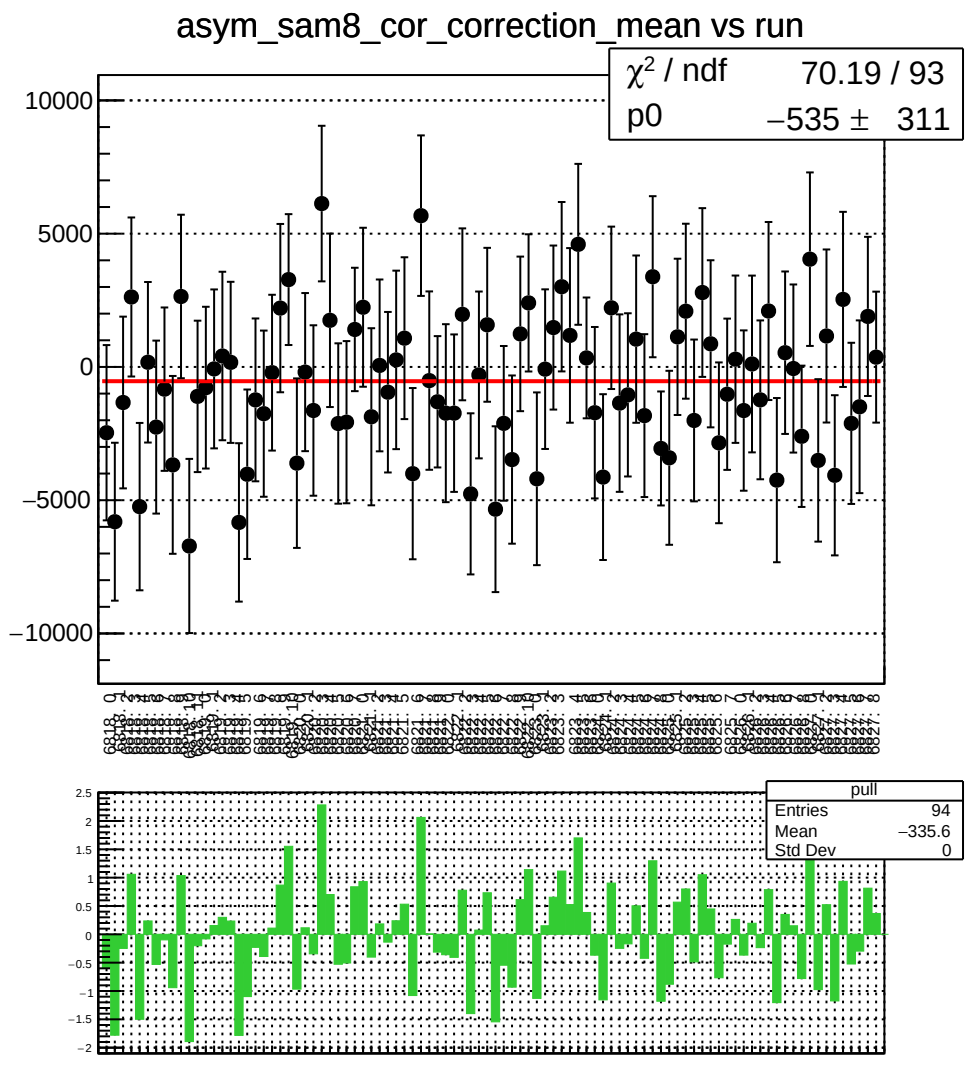

pull1D
Entries 94
Mean −0.007136
Std Dev 0.8641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

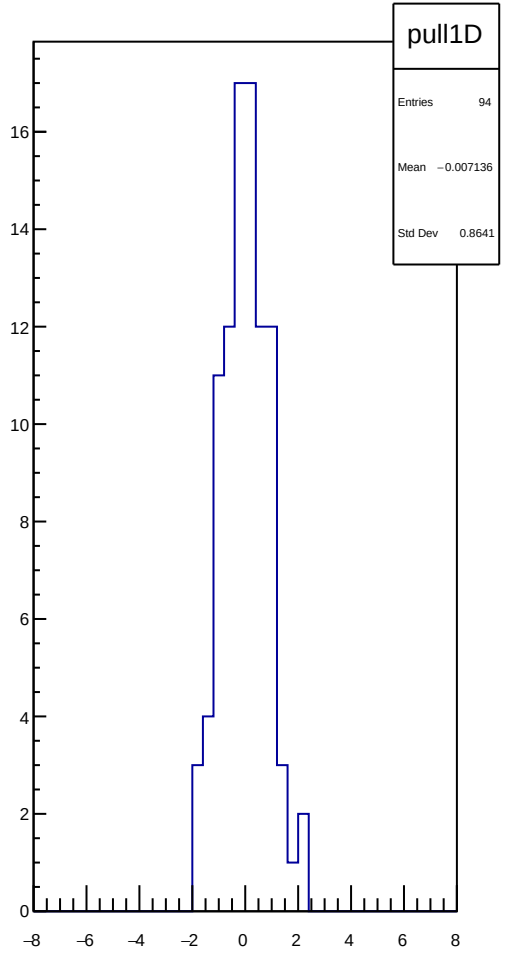

asym_sam8_reg_correction_rms vs run
χ² / ndf 2690 / 93
p0 294.4 ± 0.2199
320
310
300
290
280
270

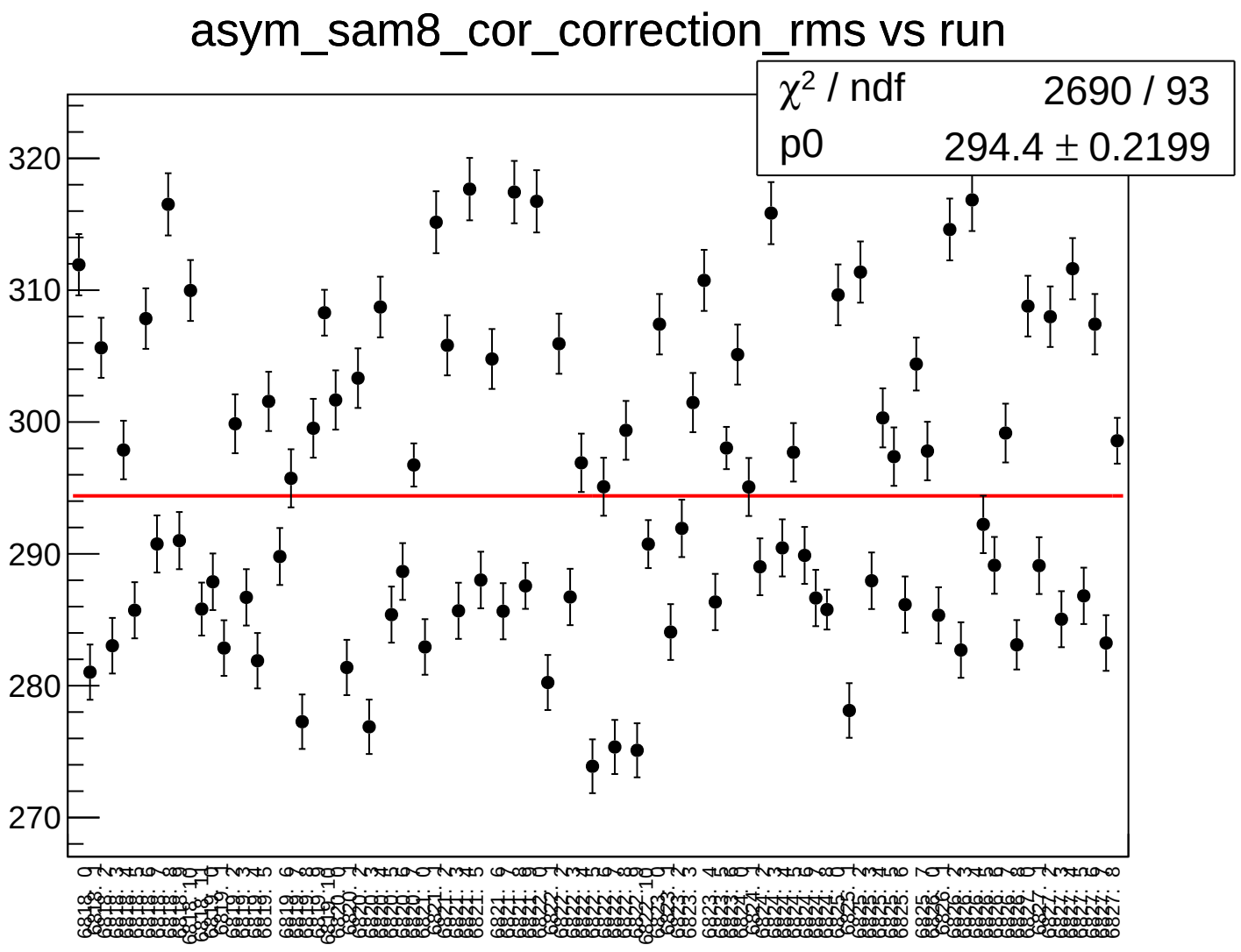

cor_asym_sam8_mean vs run
χ² / ndf 73.41 / 93
p0 283.6 ± 58.21
pull
Entries 94
Mean −44.5
Std Dev 0

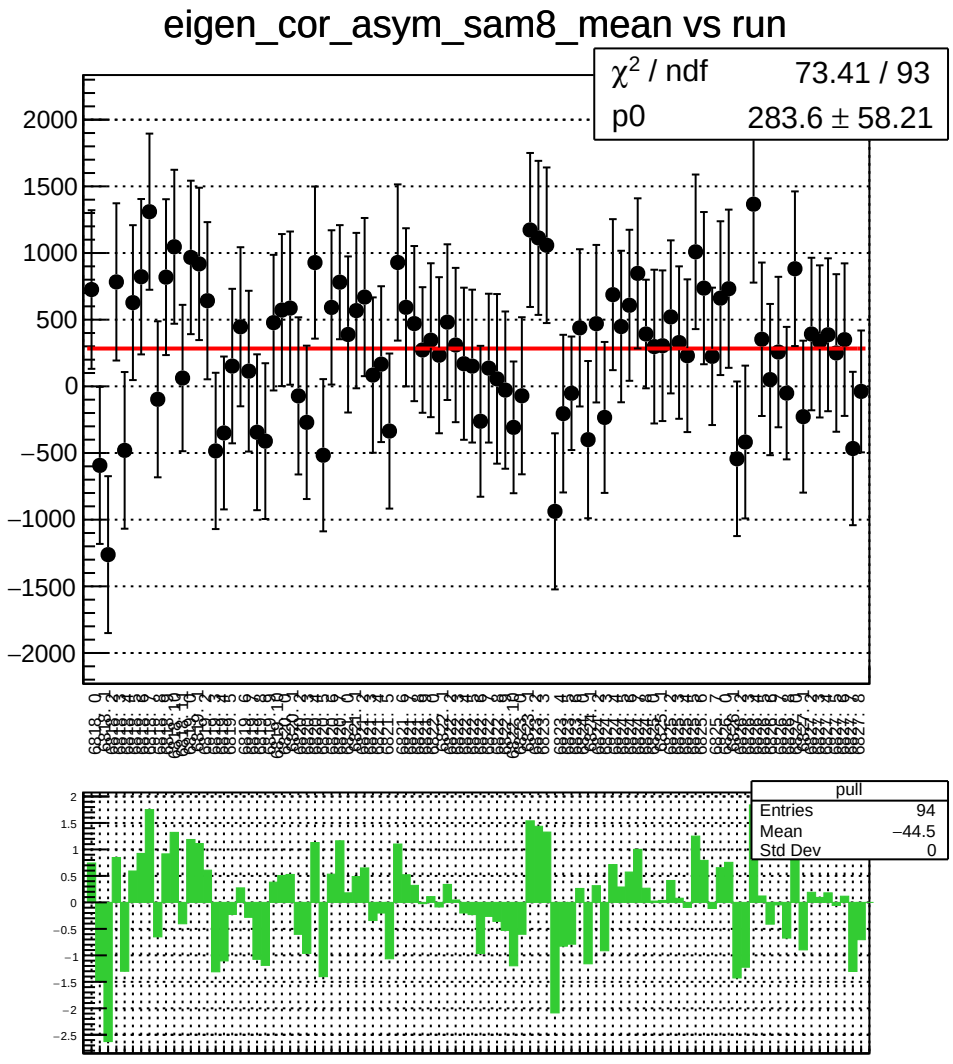

pull1D
Entries 94
Mean 0.001926
Std Dev 0.8837

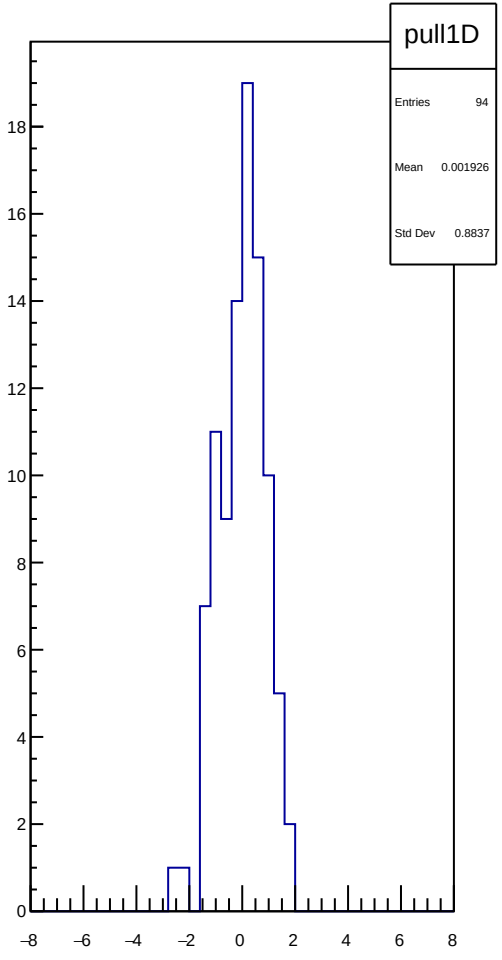

cor_asym_sam8_rms vs run
χ² / ndf 1158 / 93
p0 55.13 ± 0.04116
64
62
60
58
56
54
52

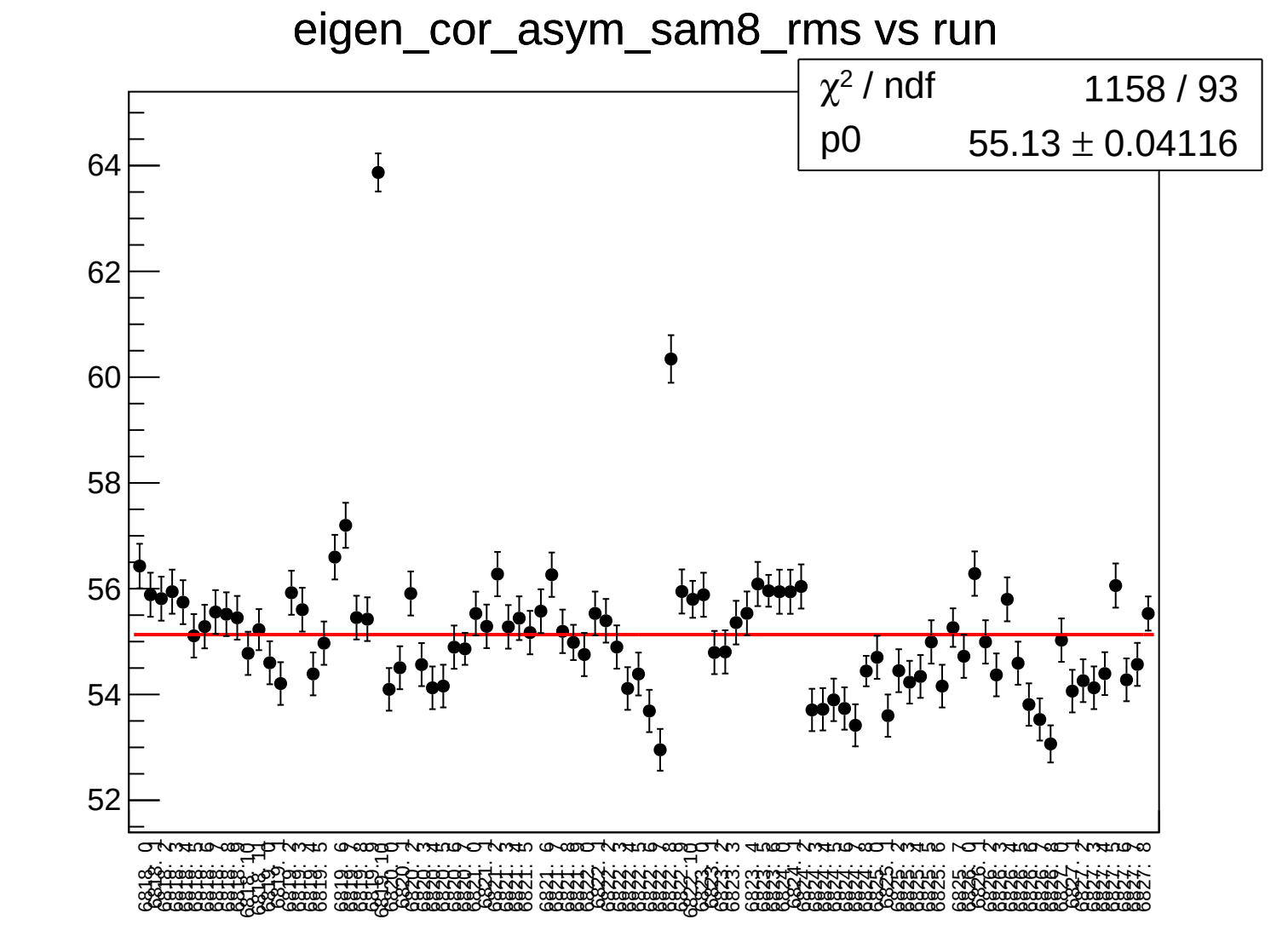

asym_sam8_cor_correction_mean vs run
χ² / ndf 70.19 / 93
p0 −535 ± 311
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −335.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

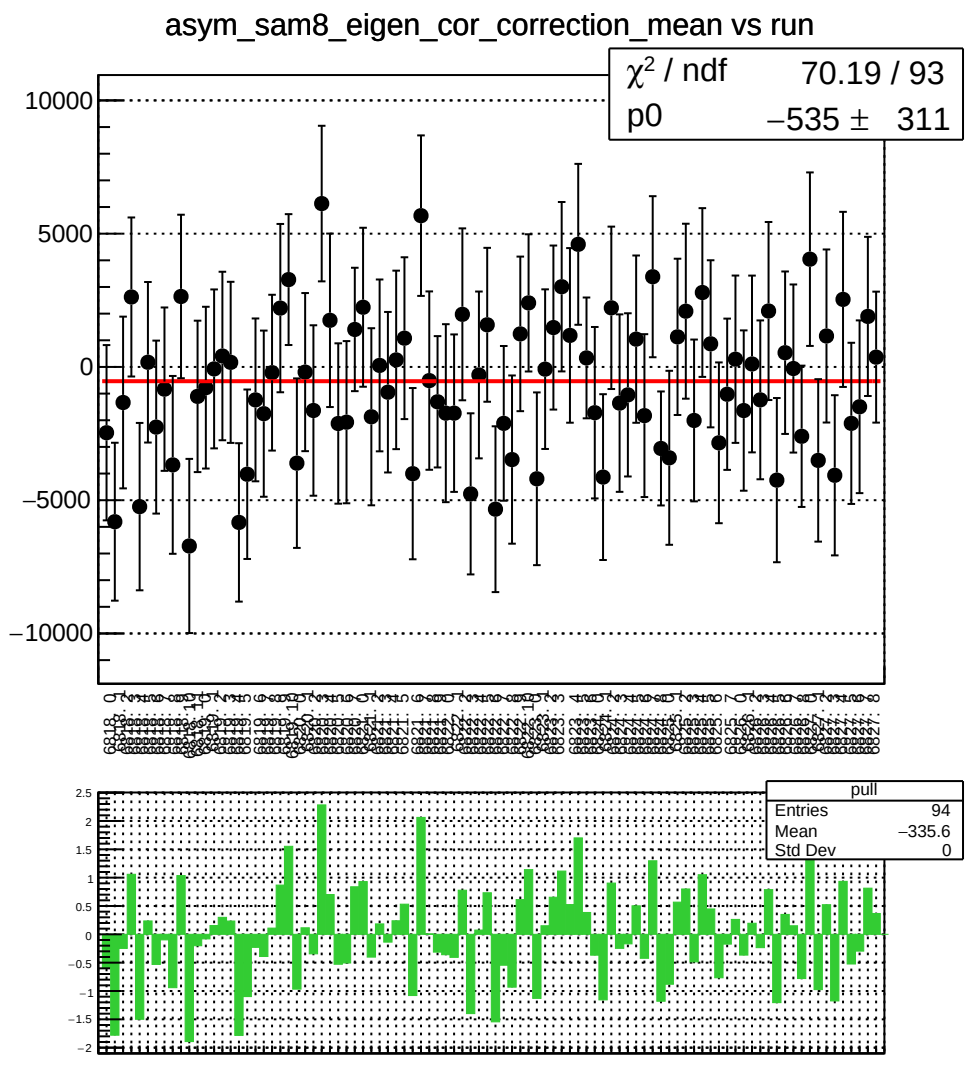

pull1D
Entries 94
Mean −0.007136
Std Dev 0.8641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

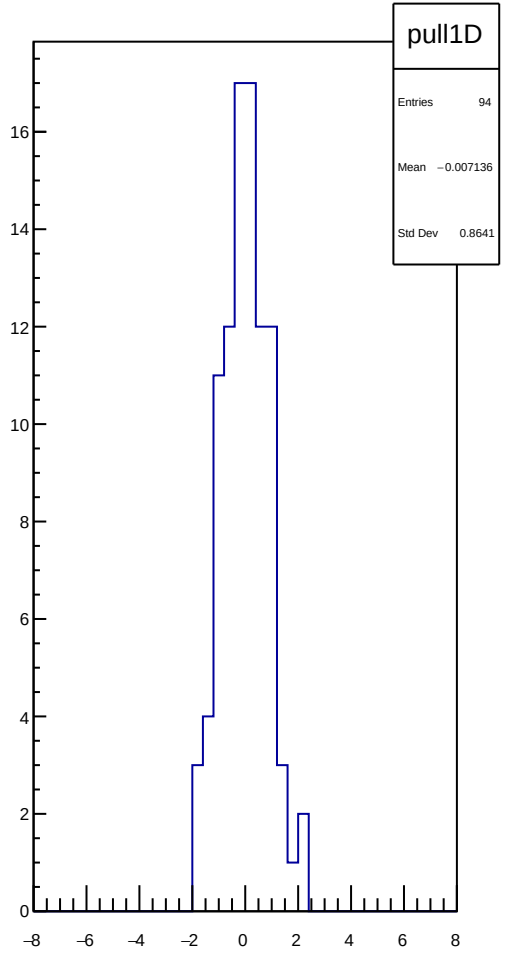

asym_sam8_cor_correction_rms vs run
χ² / ndf 2690 / 93
p0 294.4 ± 0.2199
320
310
300
290
280
270

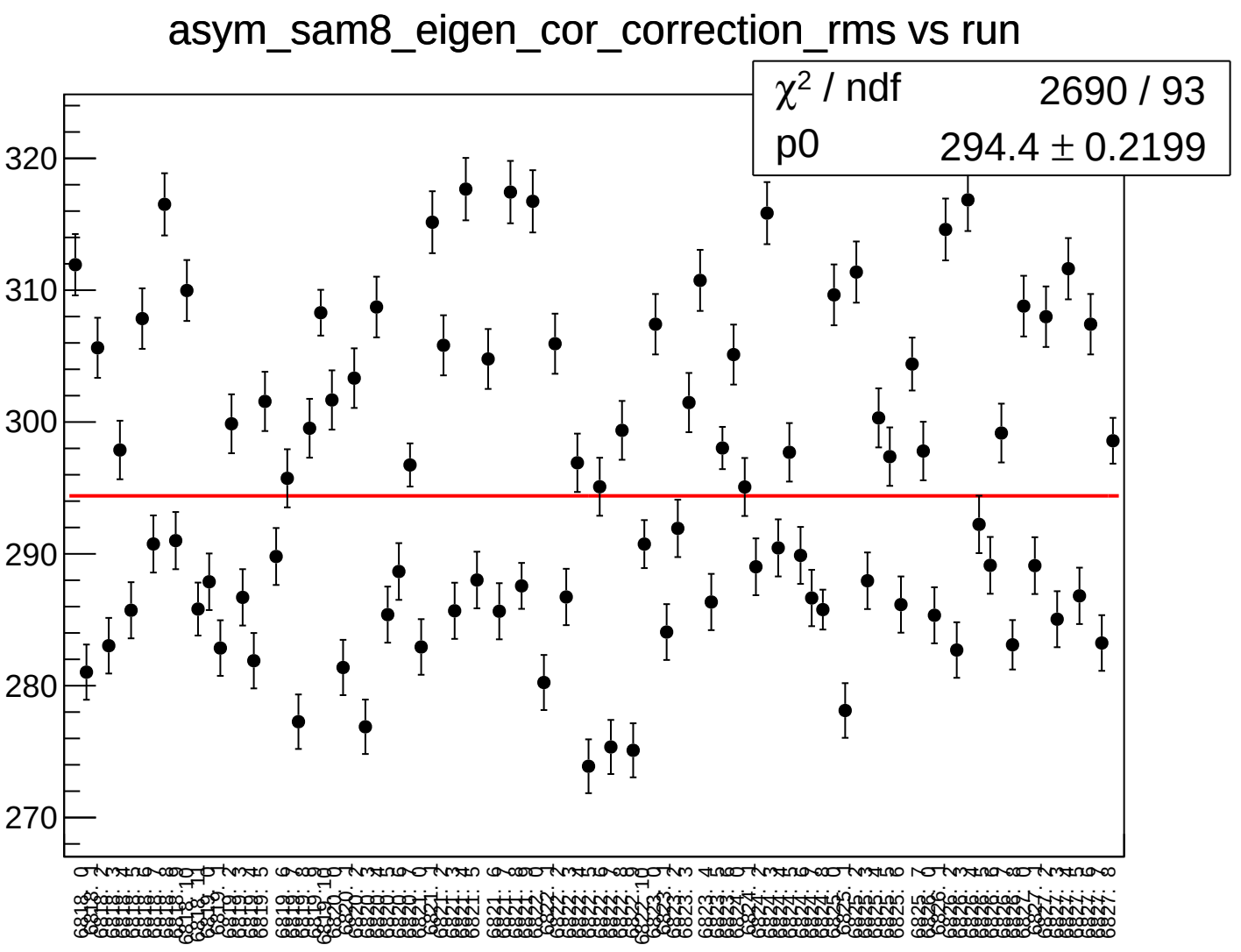

eigen_cor_asym_sam8_mean vs run
χ² / ndf 73.41 / 93
p0 283.6 ± 58.21
pull
Entries 94
Mean −44.5
Std Dev 0

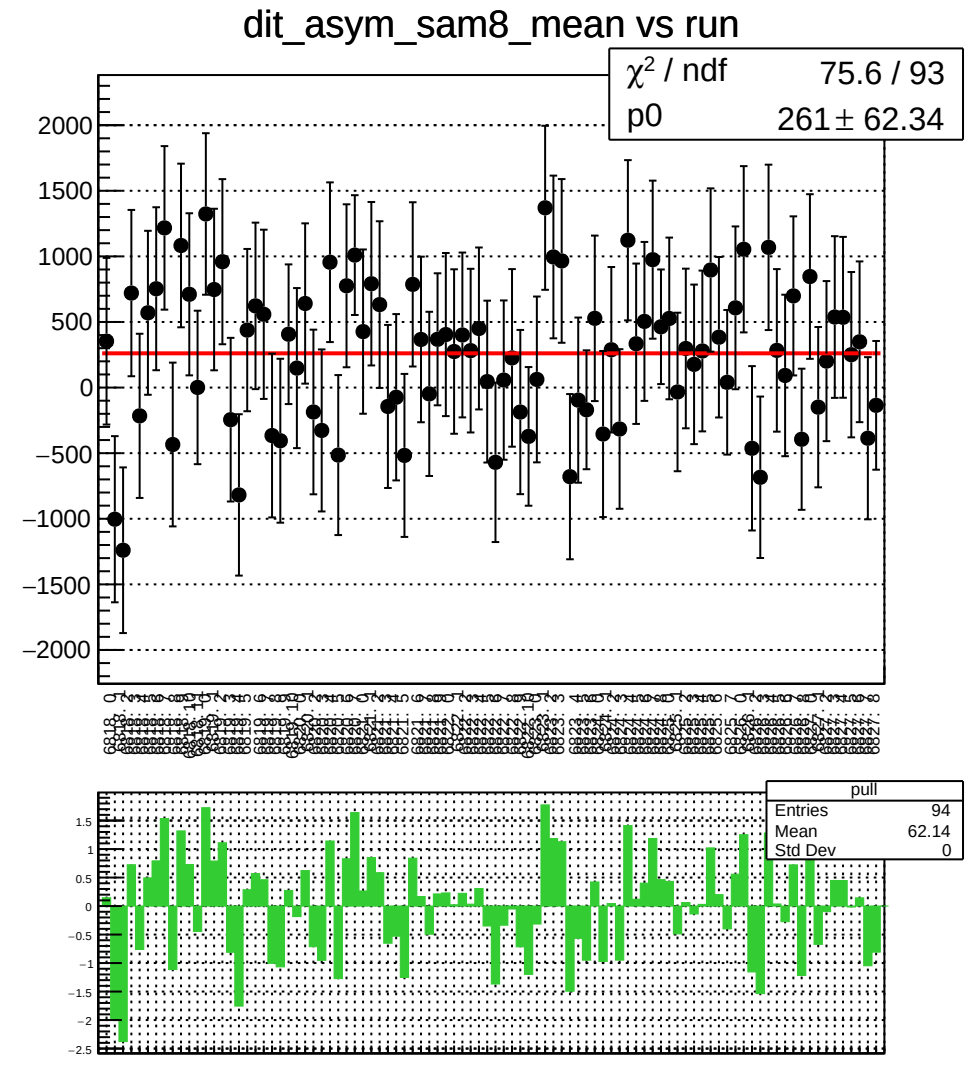

pull1D
Entries 94
Mean 0.001926
Std Dev 0.8837

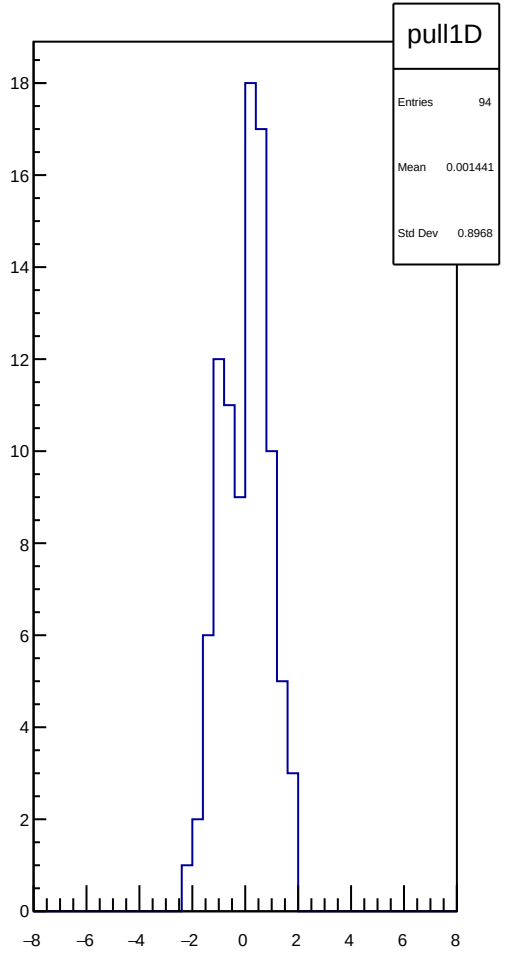

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1158 / 93
p0 55.13 ± 0.04116
64
62
60
58
56
54
52

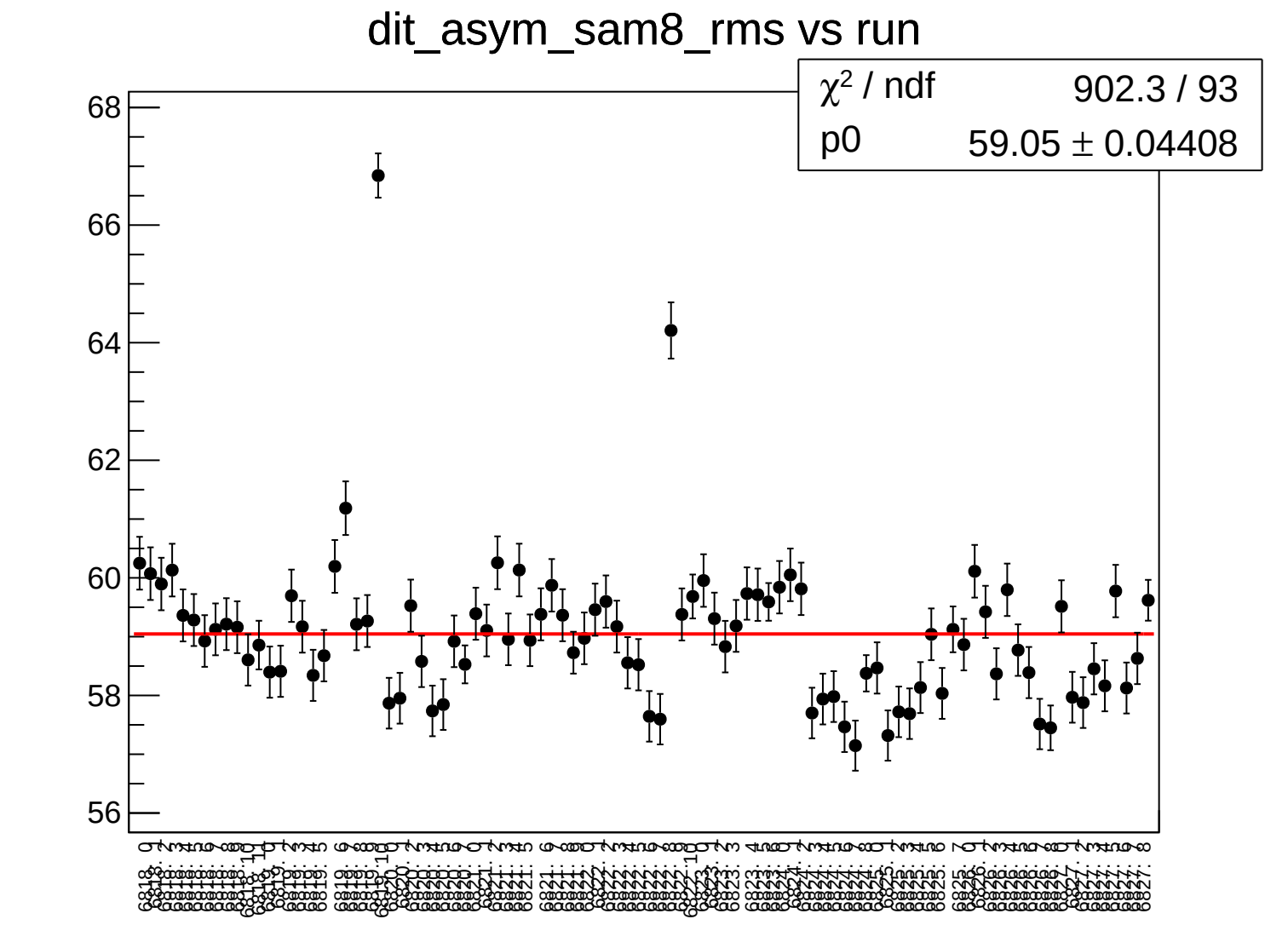

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 70.19 / 93
p0 −535 ± 311
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −335.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

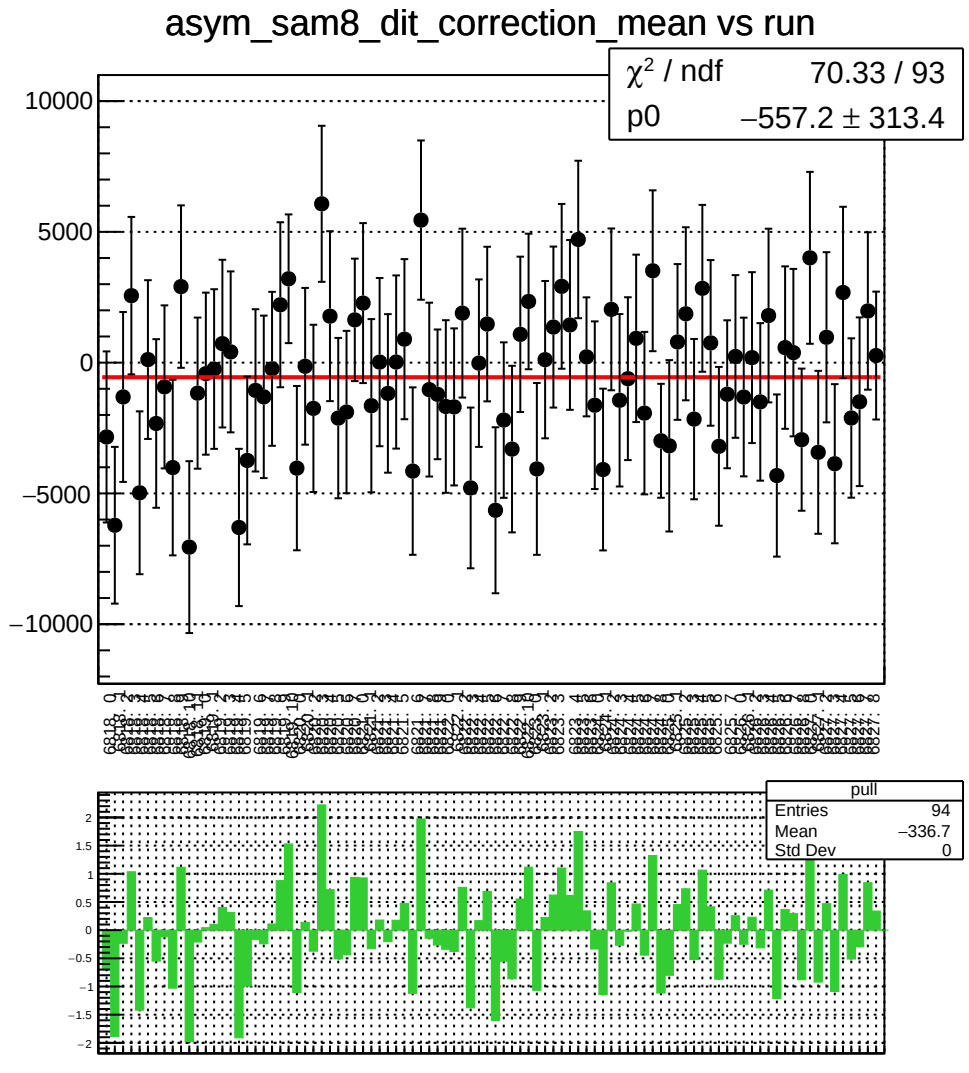

pull1D
Entries 94
Mean −0.007136
Std Dev 0.8641
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

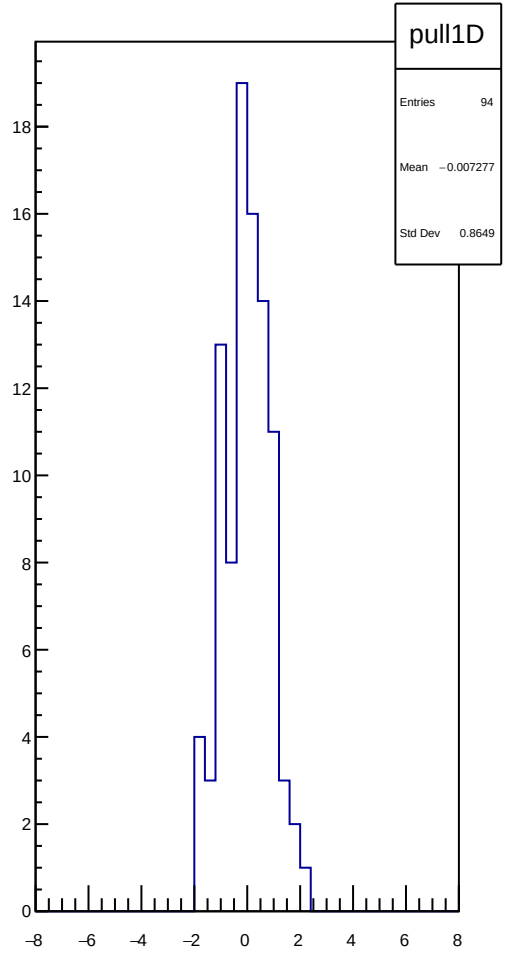

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 2690 / 93
p0 294.4 ± 0.2199
320
310
300
290
280
270

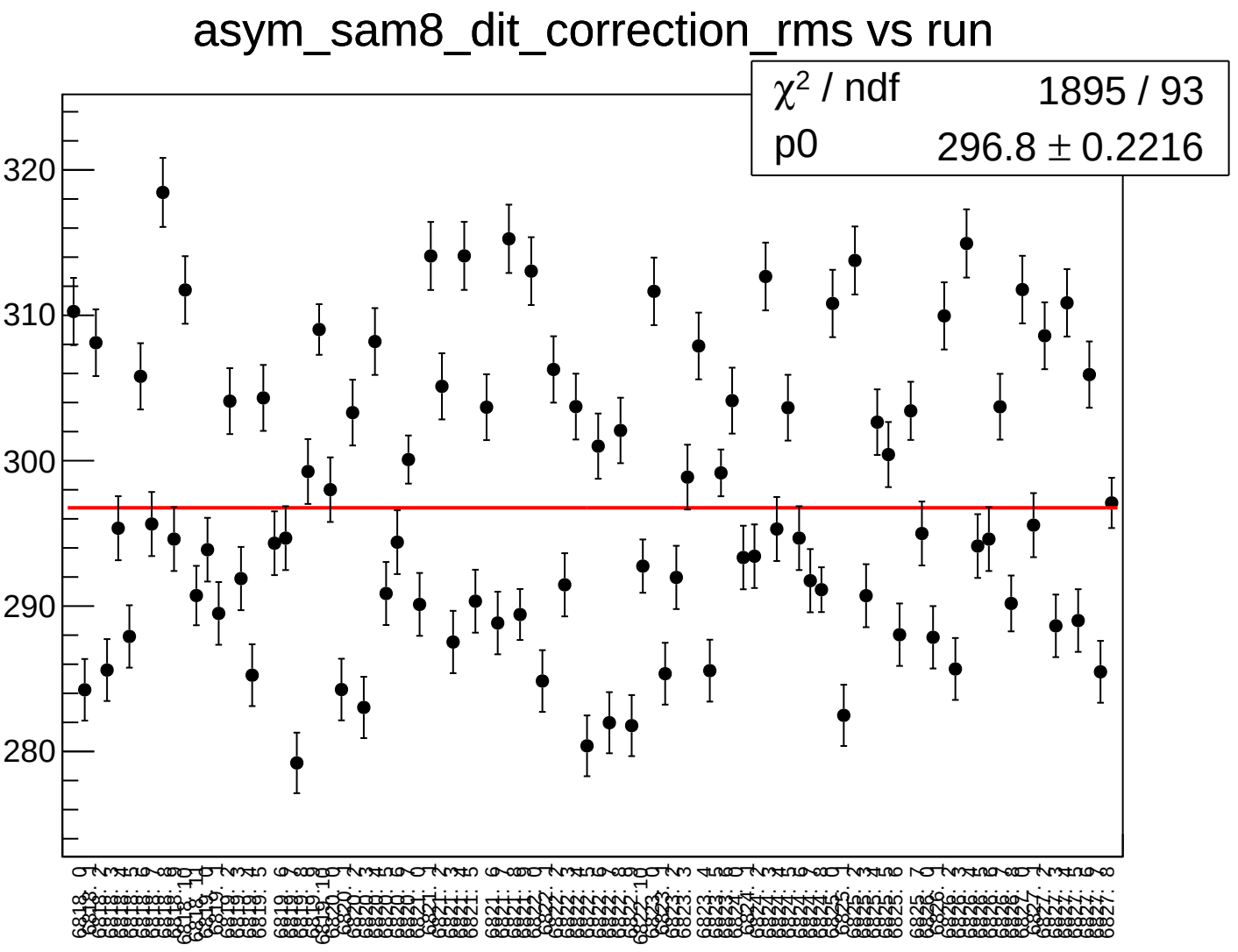

dit_asym_sam8_mean vs run
χ² / ndf 75.6 / 93
p0 261 ± 62.34
pull
Entries 94
Mean 62.14
Std Dev 0

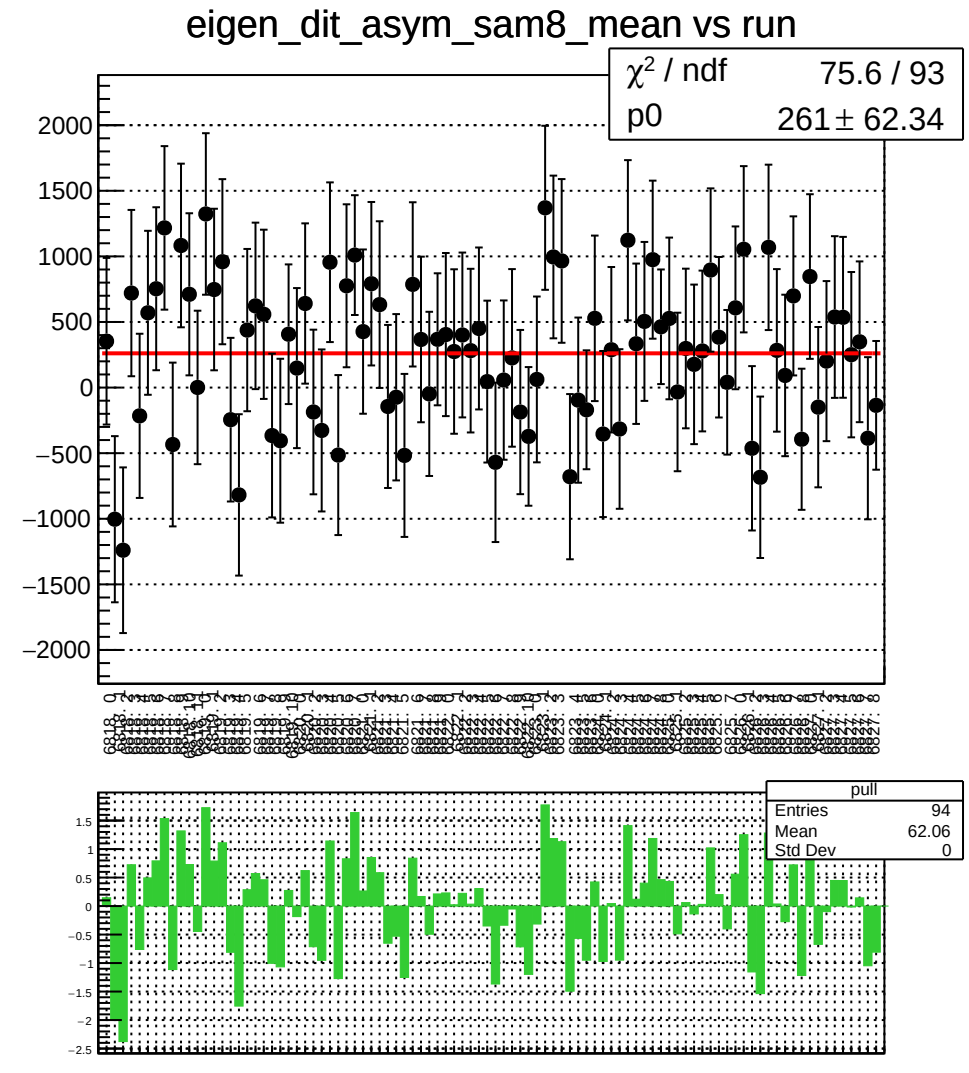

pull1D
Entries 94
Mean 0.001441
Std Dev 0.8968

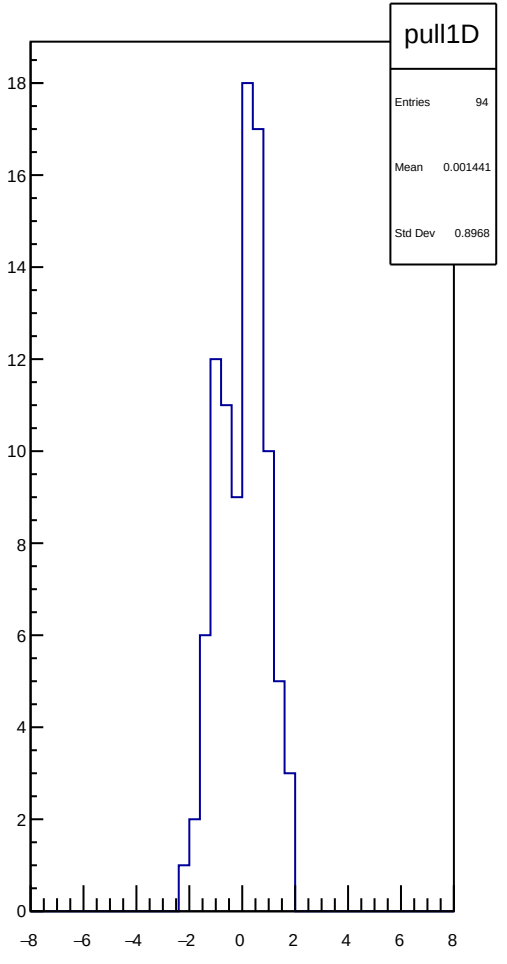

dit_asym_sam8_rms vs run
χ^2 / ndf 902.3 / 93
p0 59.05 ± 0.04408
68
66
64
62
60
58
56

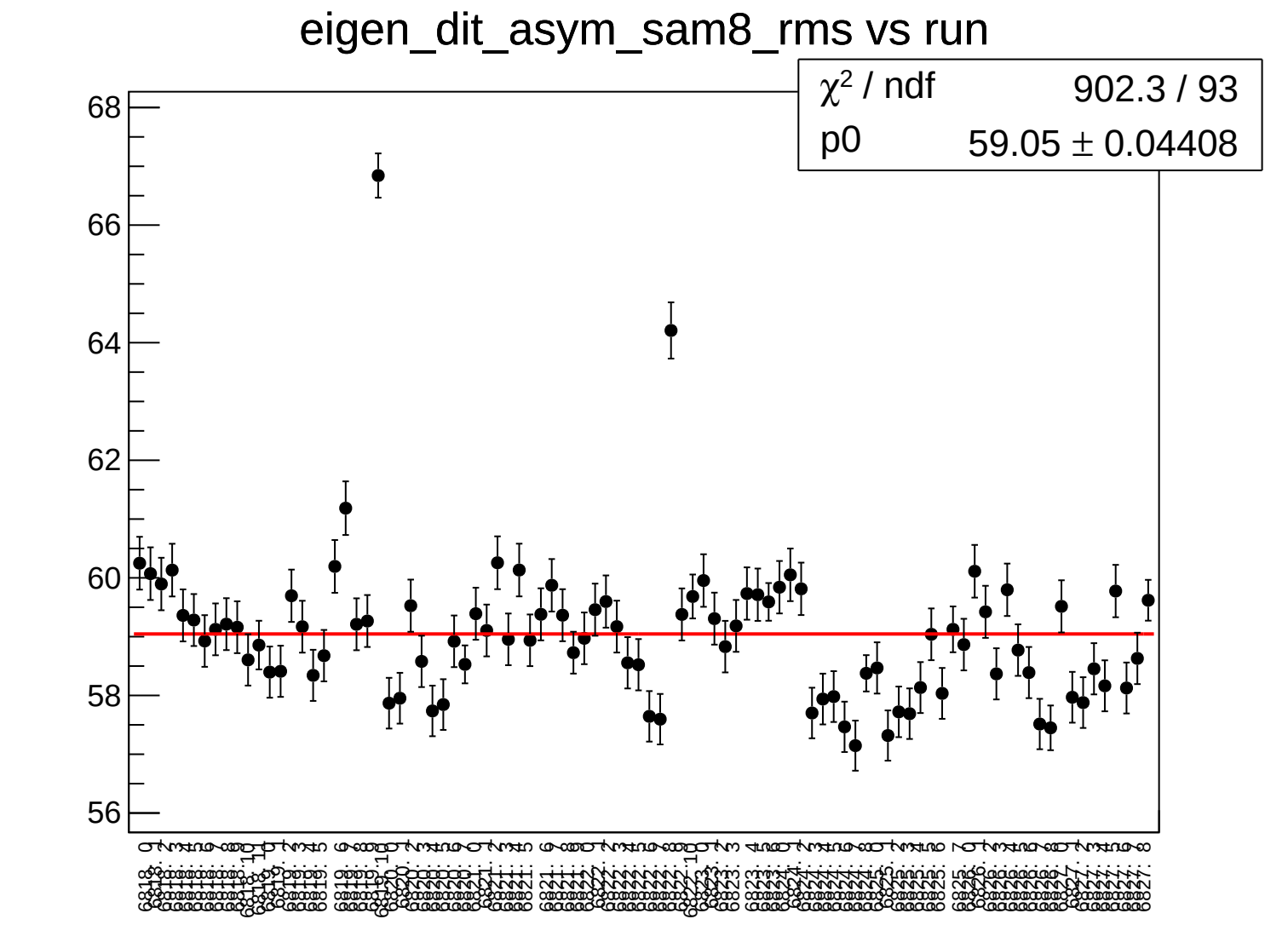

asym_sam8_dit_correction_mean vs run
χ² / ndf 70.33 / 93
p0 −557.2 ± 313.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −336.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

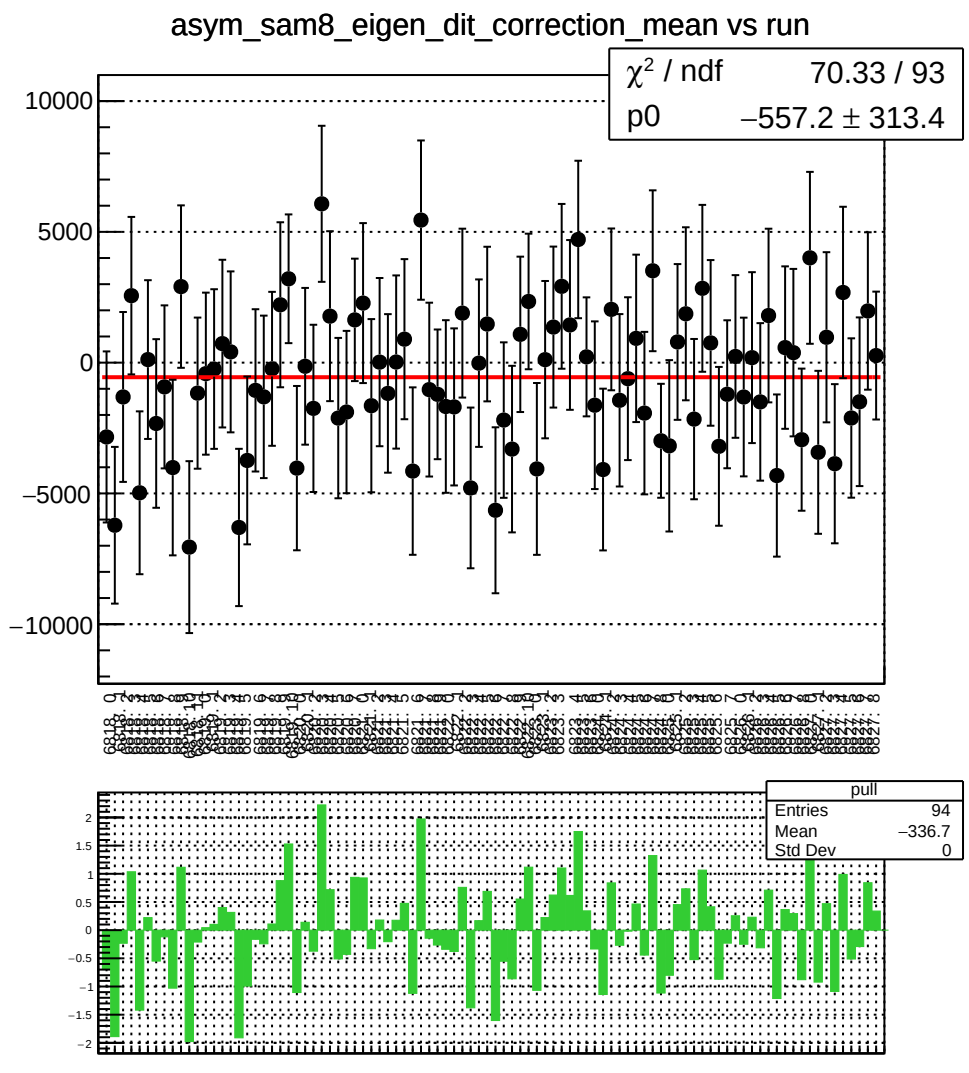

pull1D
Entries 94
Mean −0.007277
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

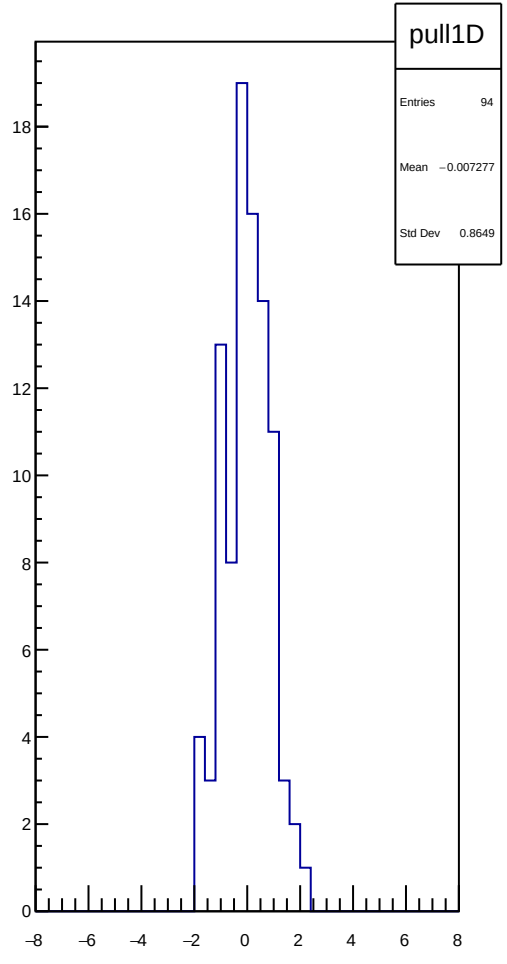

asym_sam8_dit_correction_rms vs run
χ² / ndf 1895 / 93
p0 296.8 ± 0.2216
320
310
300
290
280

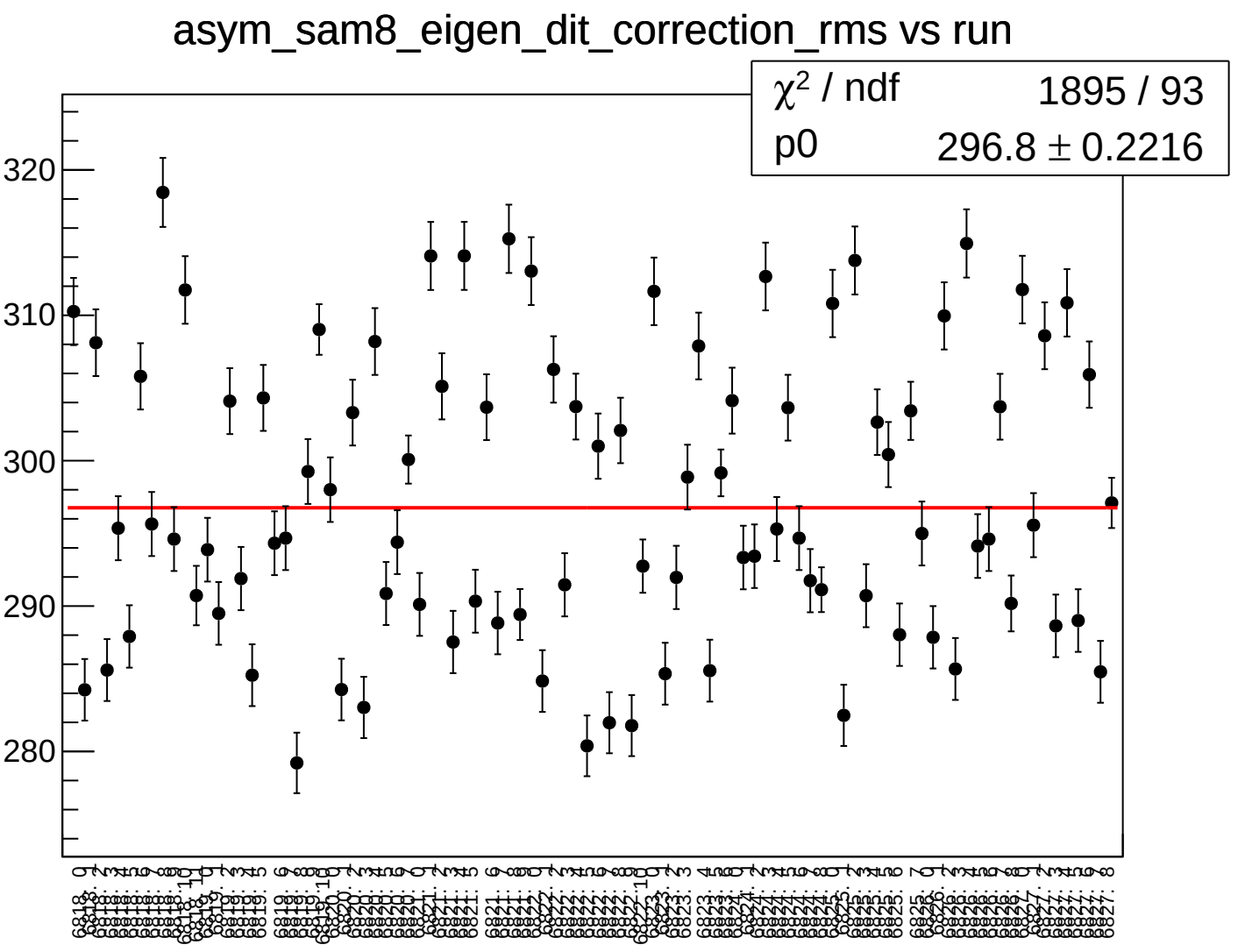

eigen_dit_asym_sam8_mean vs run
χ² / ndf 75.6 / 93
p0 261 ± 62.34
pull
Entries 94
Mean 62.06
Std Dev 0

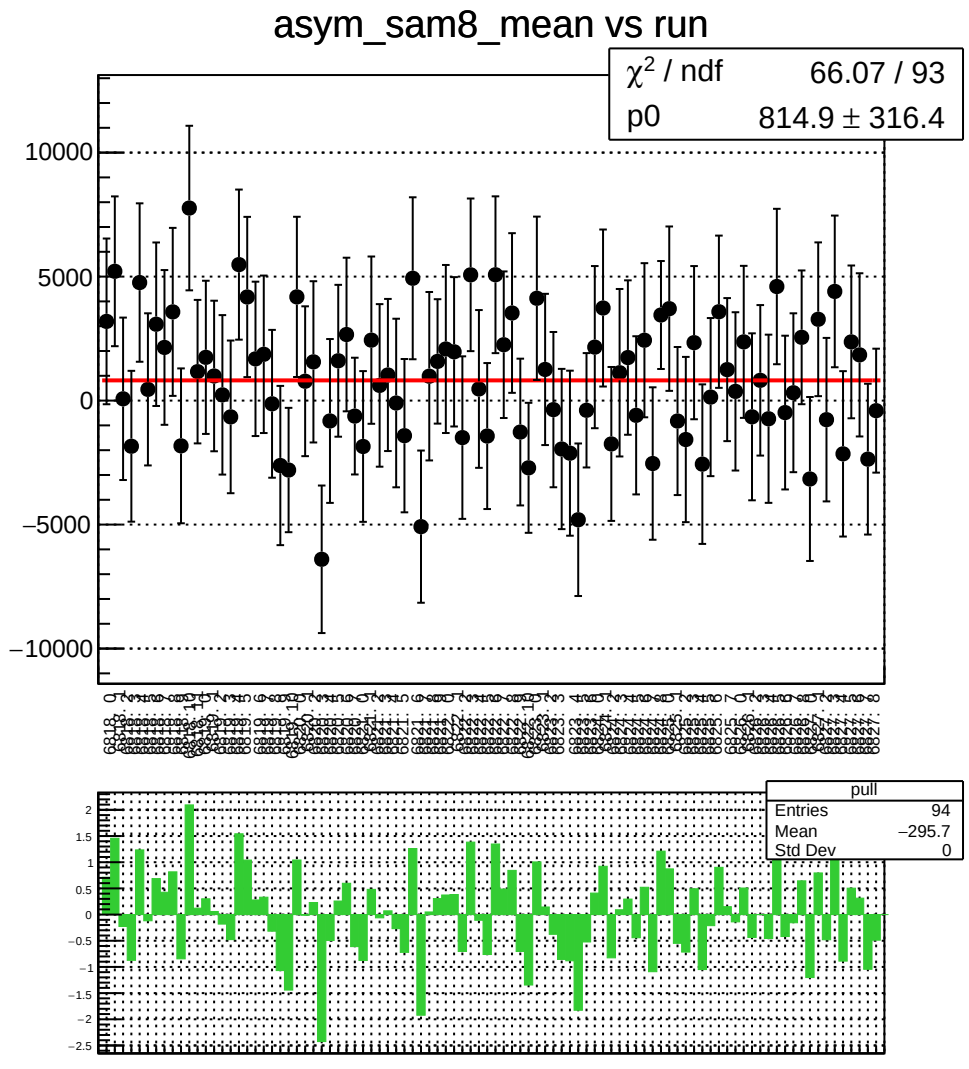

pull1D
Entries 94
Mean 0.001441
Std Dev 0.8968

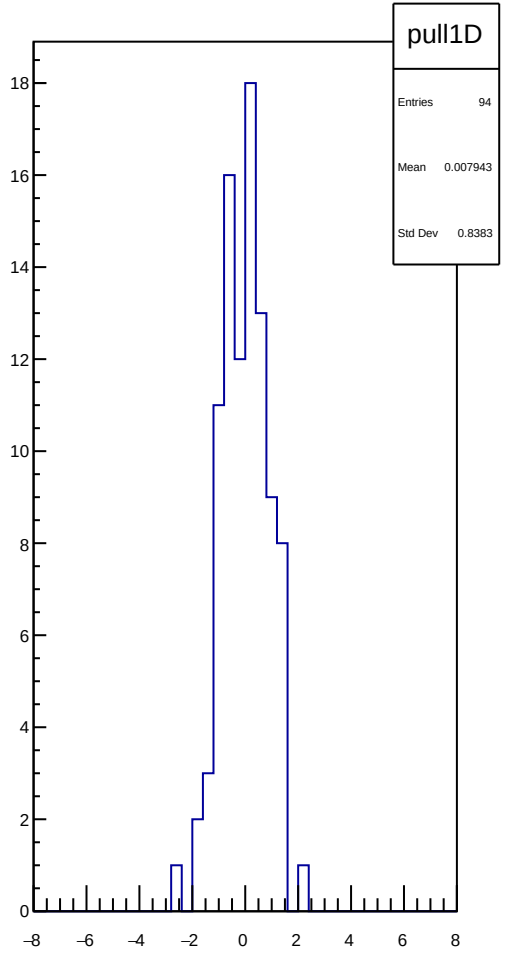

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 902.3 / 93
p0 59.05 ± 0.04408
68
66
64
62
60
58
56

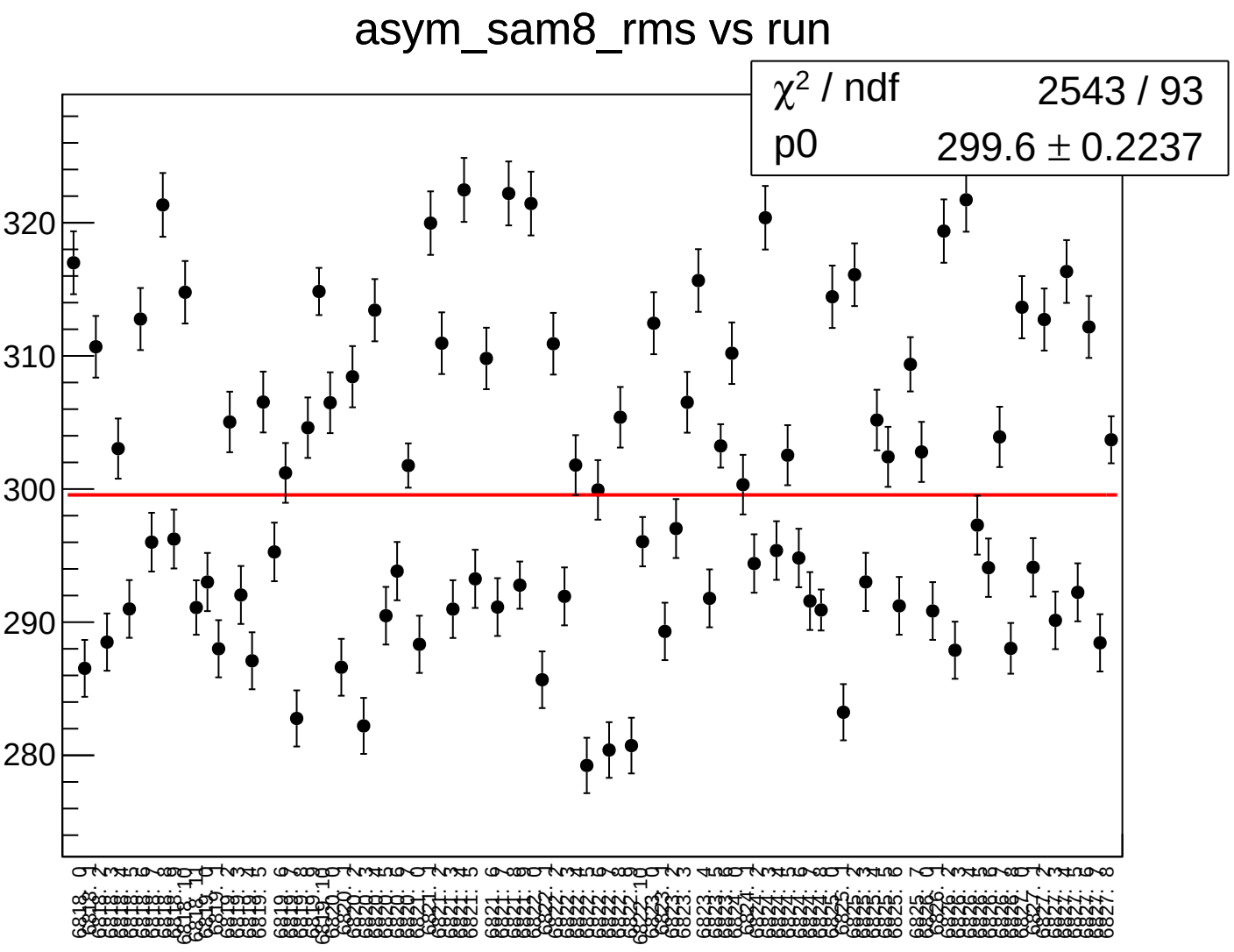

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 70.33 / 93
p0 −557.2 ± 313.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −336.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

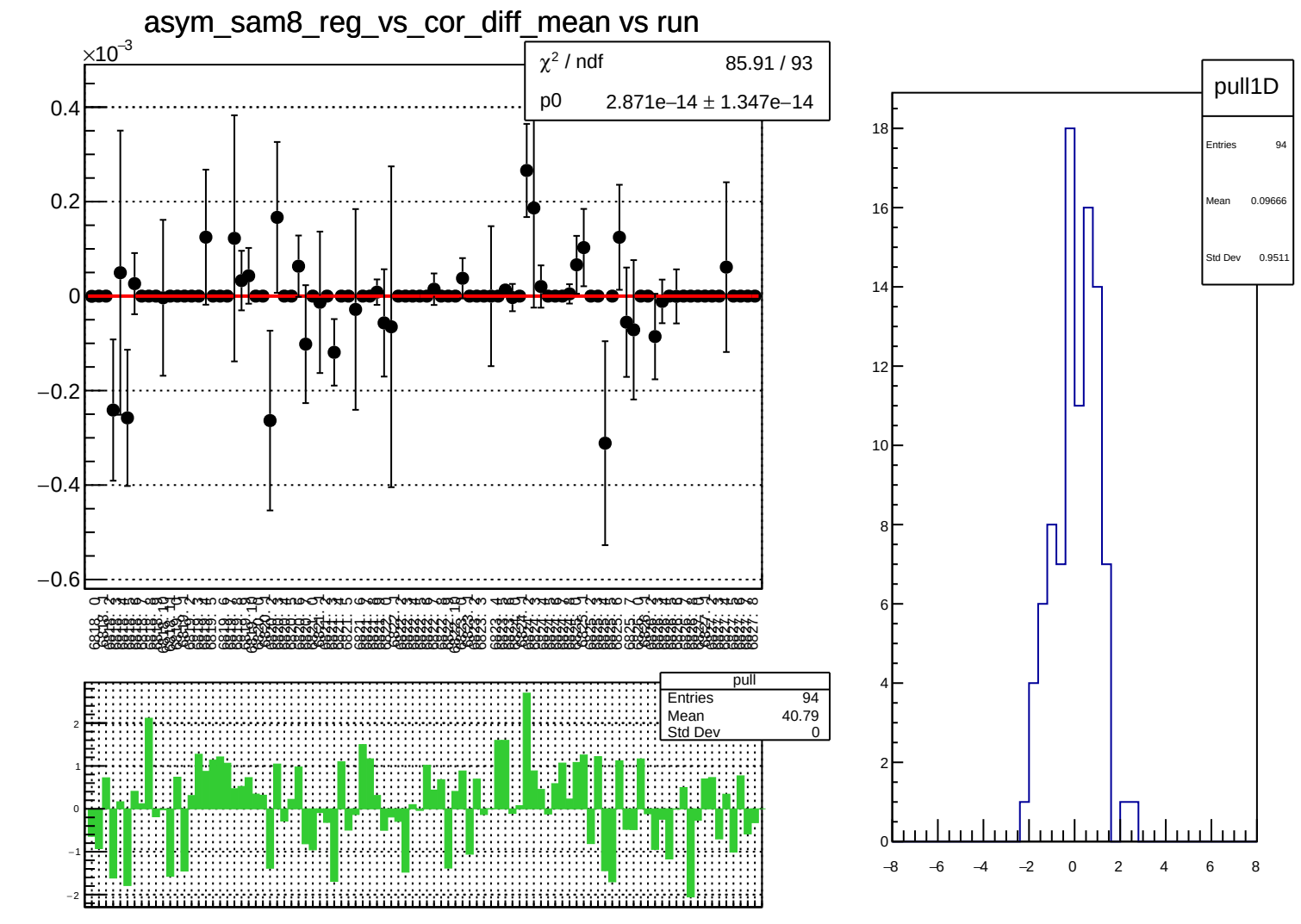

pull1D
Entries 94
Mean −0.007277
Std Dev 0.8649
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

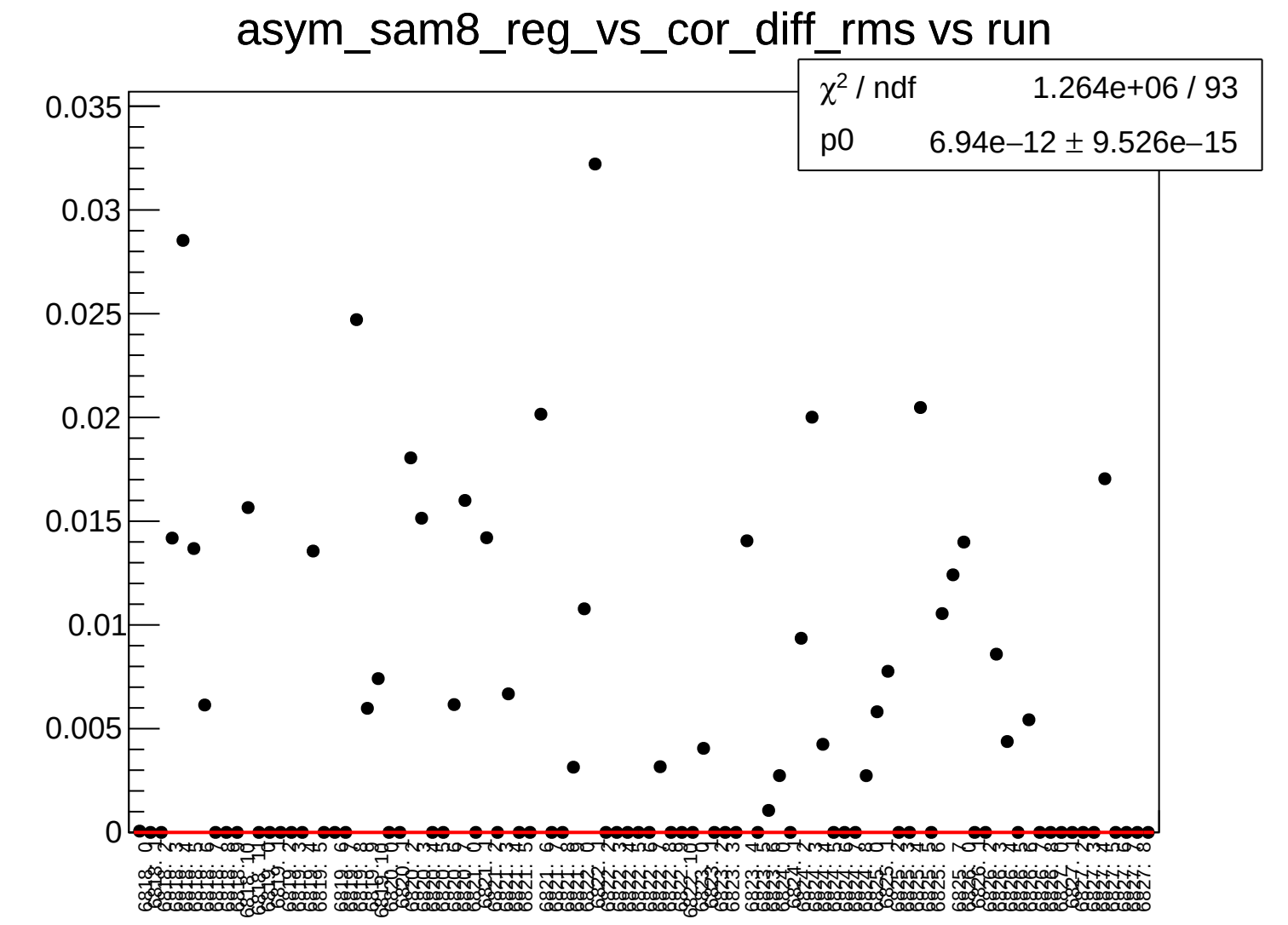

asym_sam8_eigen_dit_correction_rms vs run
χ^2 / ndf 1895 / 93
p0 296.8 ± 0.2216
320
310
300
290
280

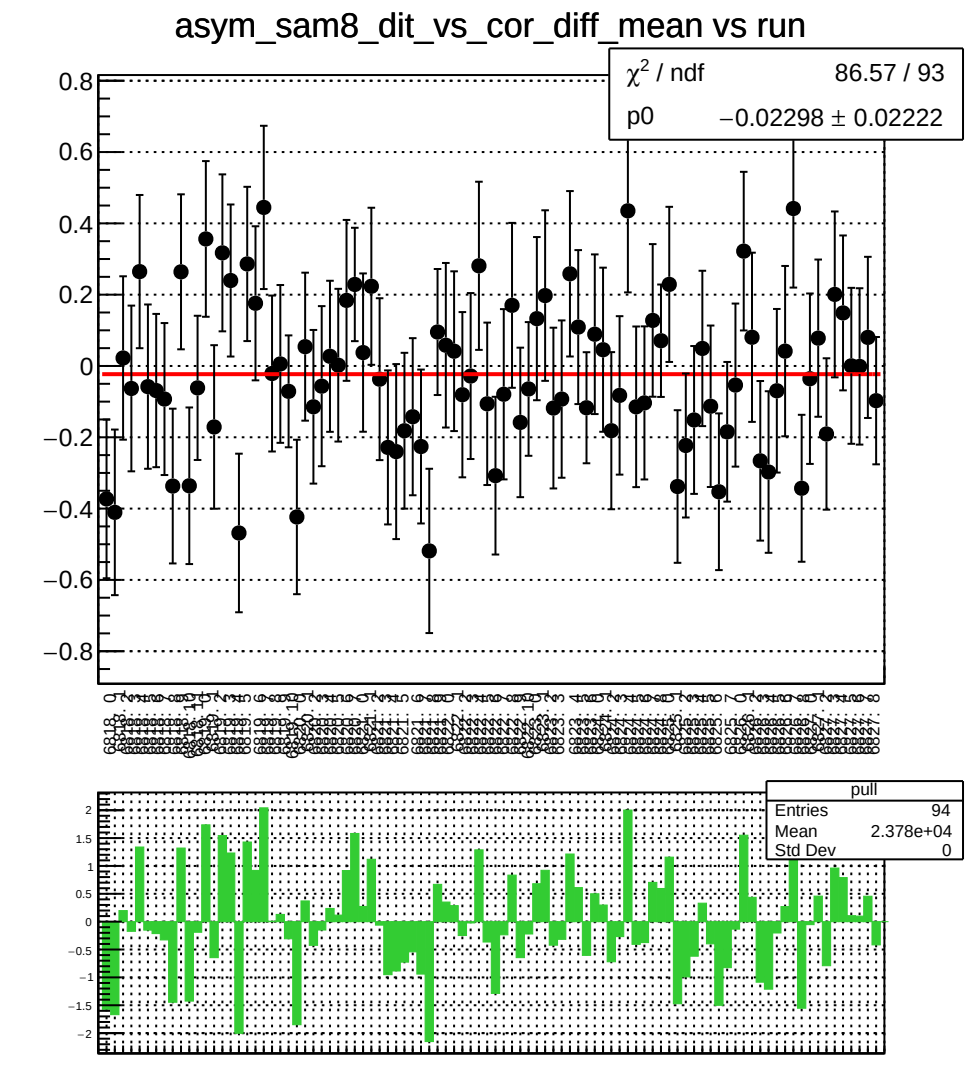

asym_sam8_mean vs run
χ² / ndf 66.07 / 93
p0 814.9 ± 316.4
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −295.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

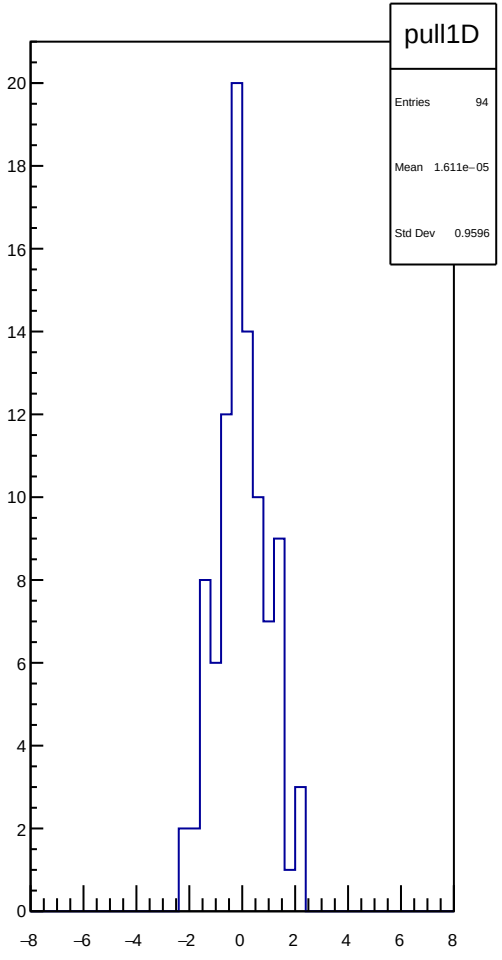

pull1D
Entries 94
Mean 0.007943
Std Dev 0.8383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

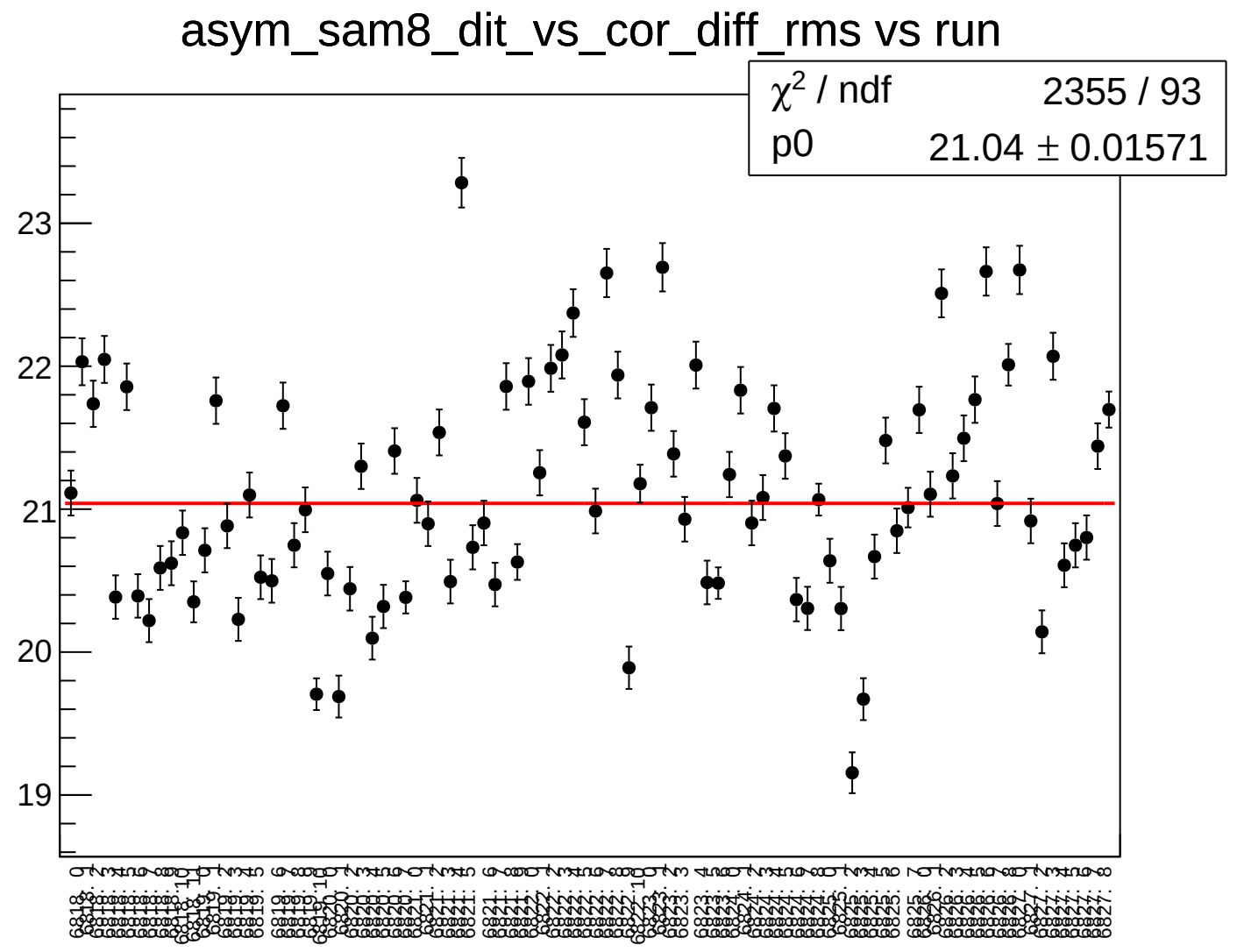

asym_sam8_rms vs run
χ² / ndf 2543 / 93
p0 299.6 ± 0.2237
320
310
300
290
280

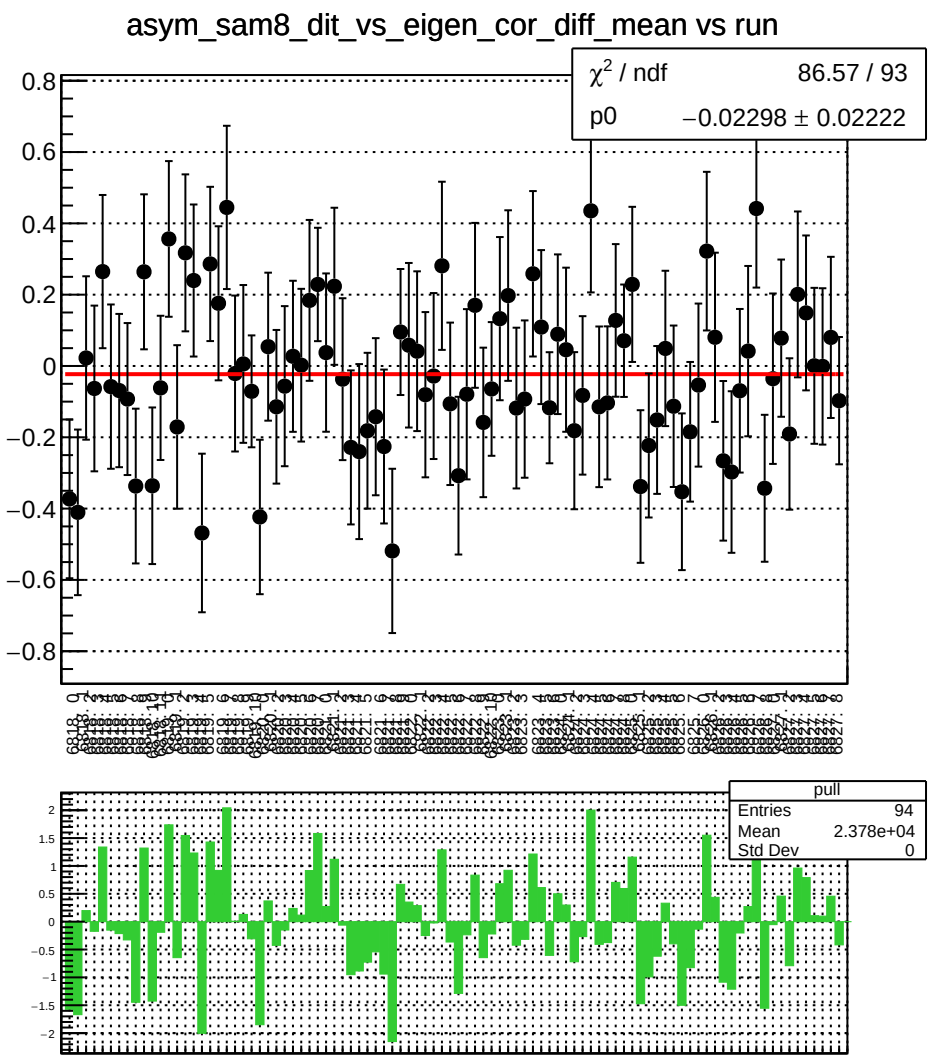

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 85.91 / 93
p0 2.871e−14 ± 1.347e−14
pull
Entries 94
Mean 40.79
Std Dev 0
pull1D
Entries 94
Mean 0.09666
Std Dev 0.9511

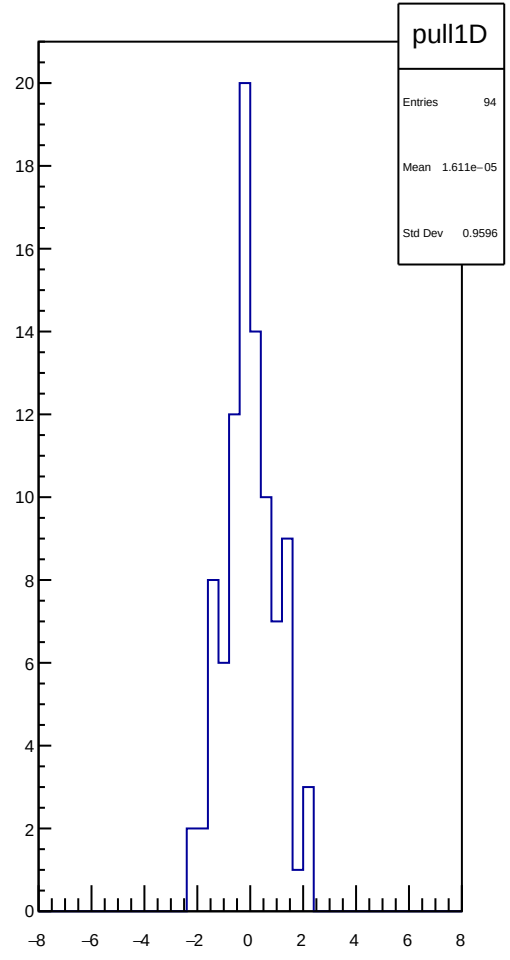

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 93
p0 6.94e−12 ± 9.526e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

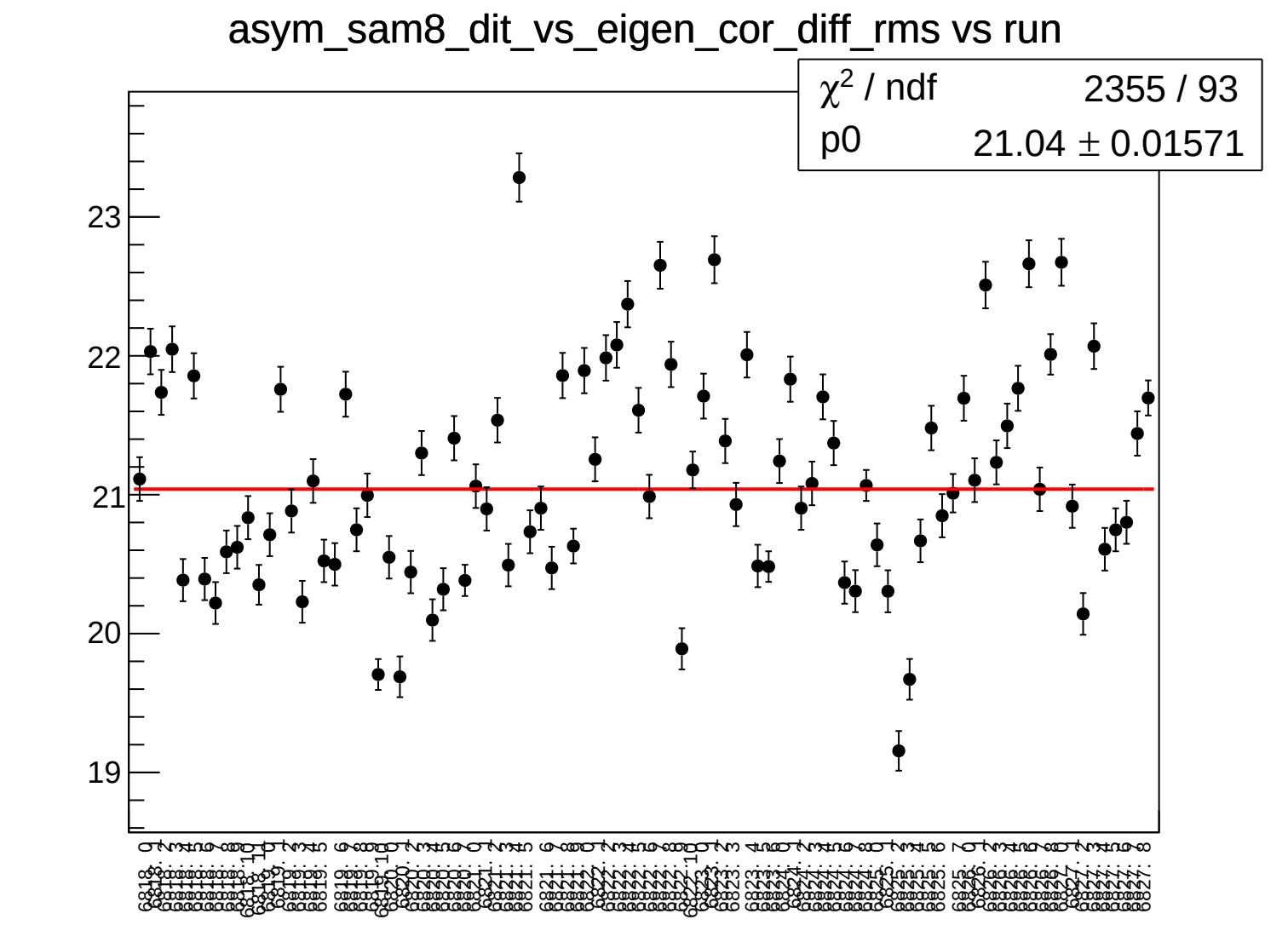

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 86.57 / 93
p0 −0.02298 ± 0.02222
pull
Entries 94
Mean 2.378e+04
Std Dev 0

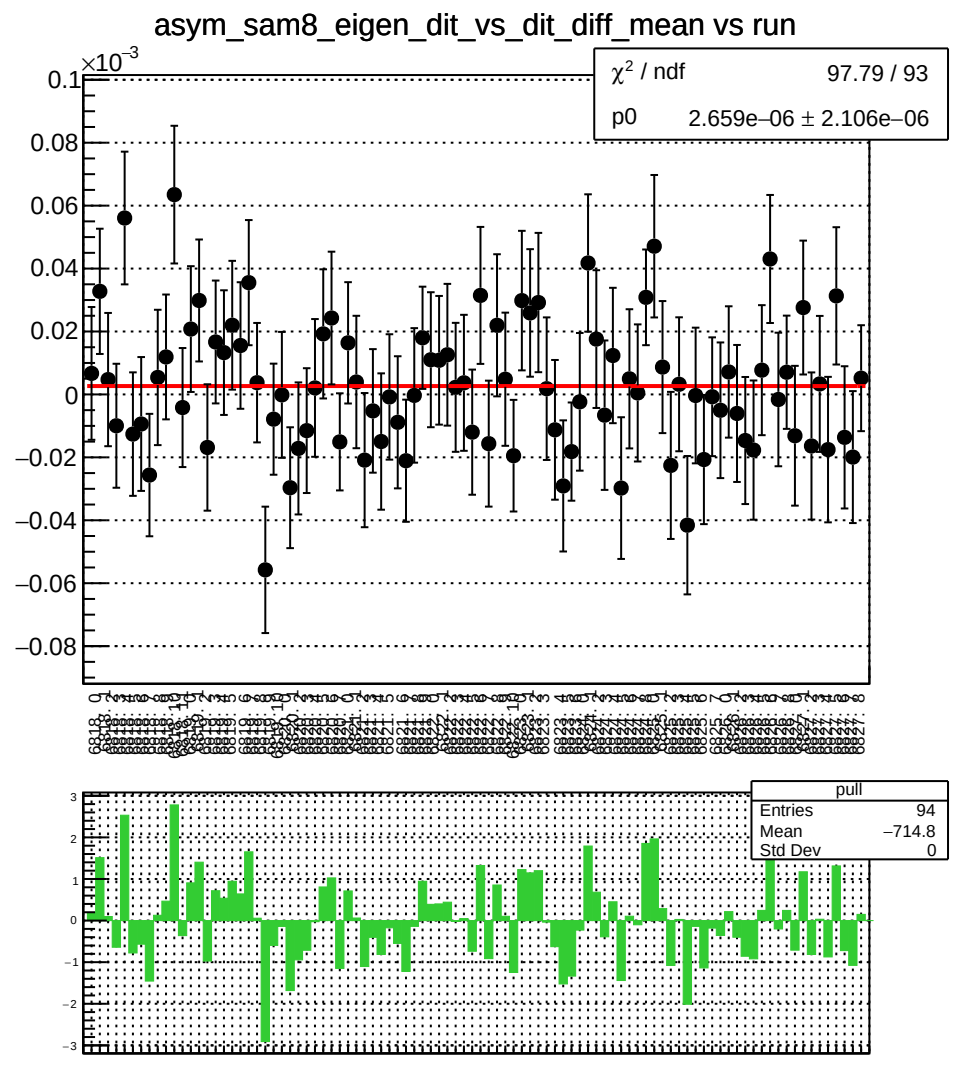

pull1D
Entries 94
Mean 1.611e−05
Std Dev 0.9596

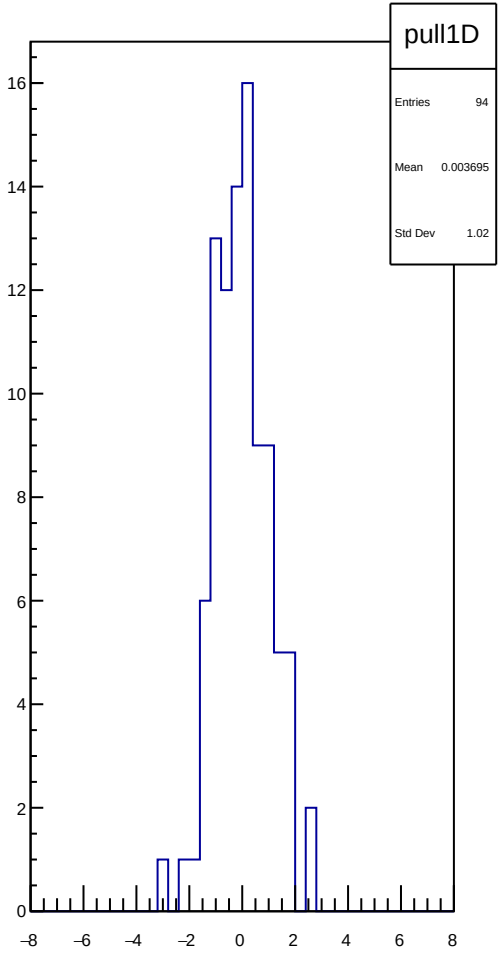

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 2355 / 93
p0 21.04 ± 0.01571
23
22
21
20
19

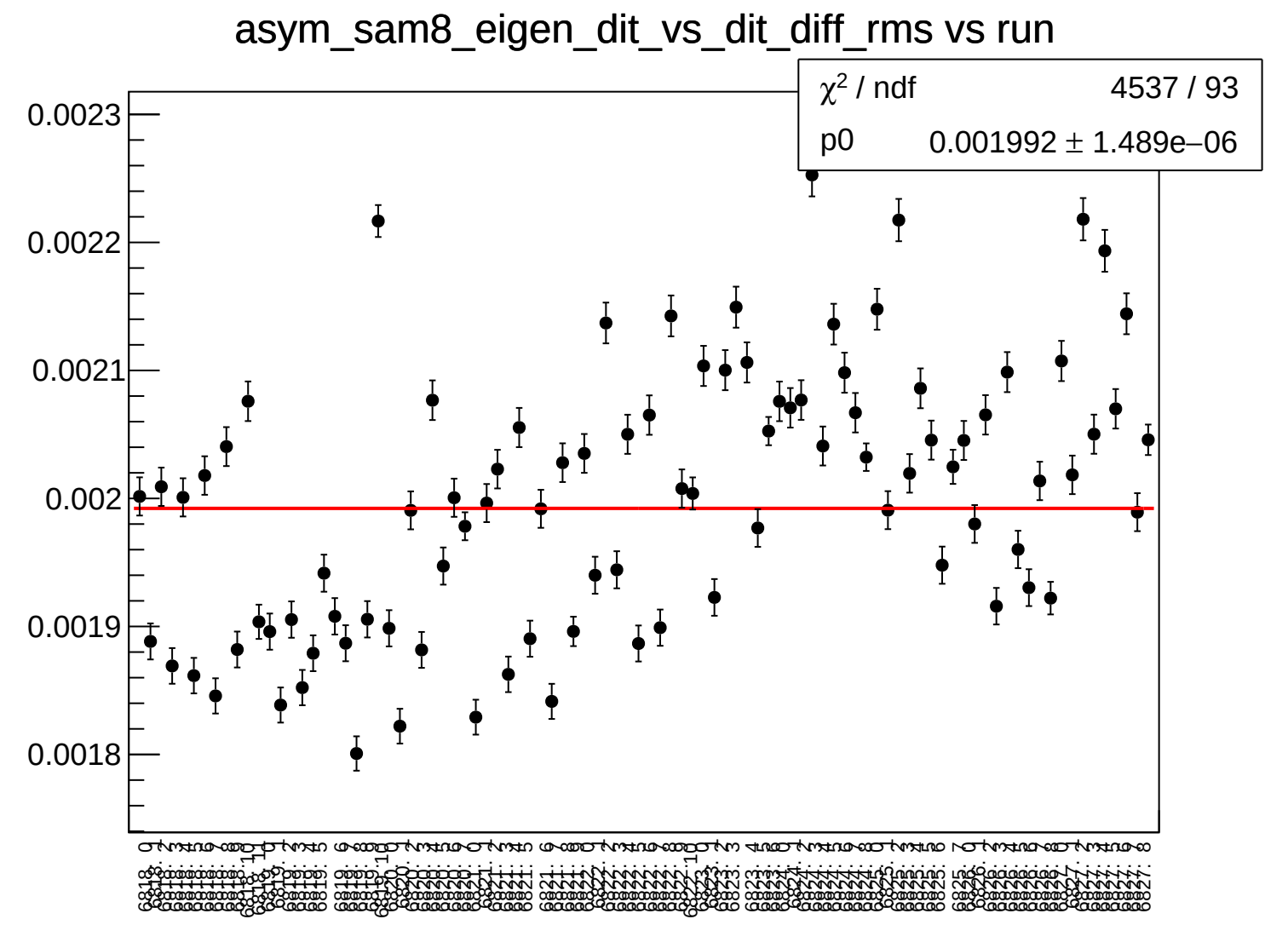

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.57 / 93
p0 −0.02298 ± 0.02222
pull
Entries 94
Mean 2.378e+04
Std Dev 0

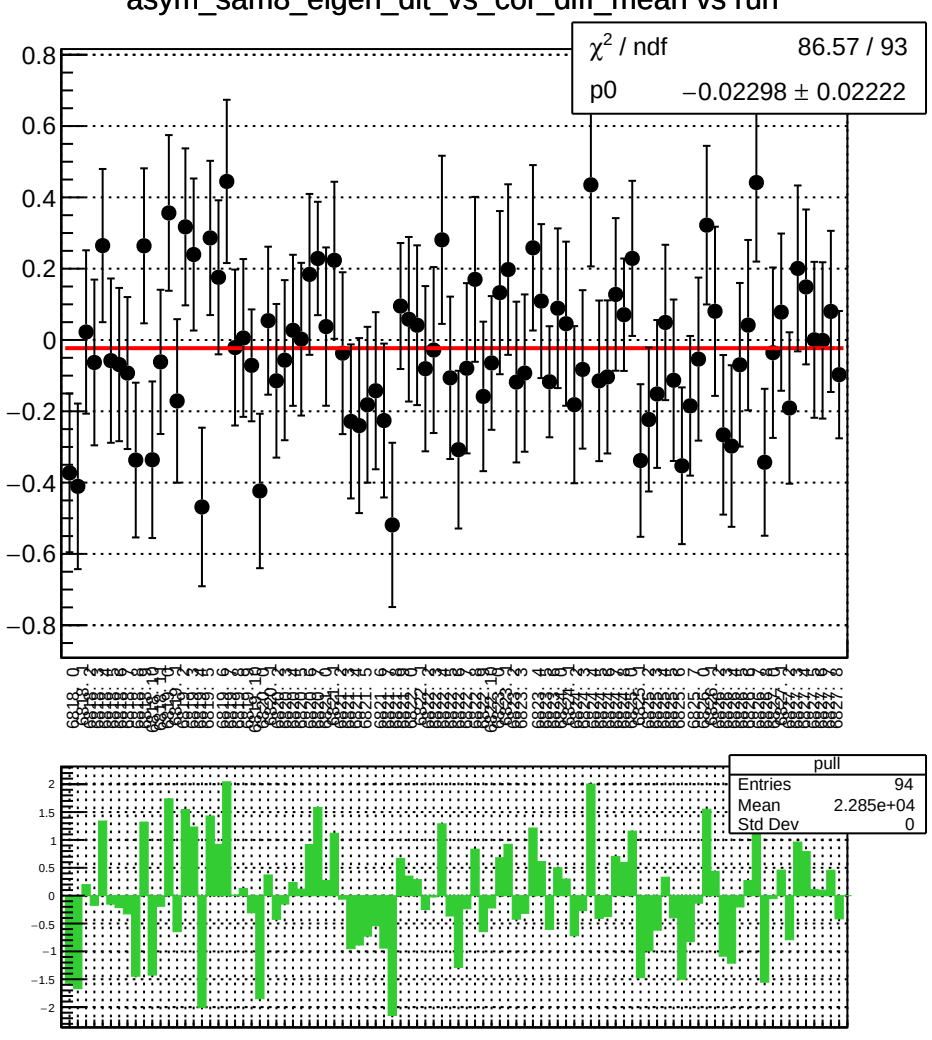

pull1D
Entries 94
Mean 1.611e−05
Std Dev 0.9596

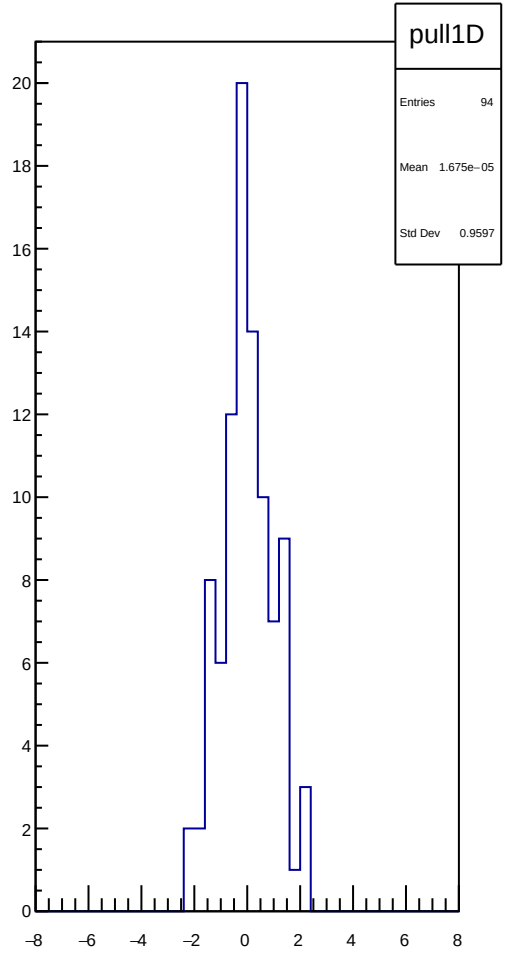

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2355 / 93
p0 21.04 ± 0.01571
23
22
21
20
19

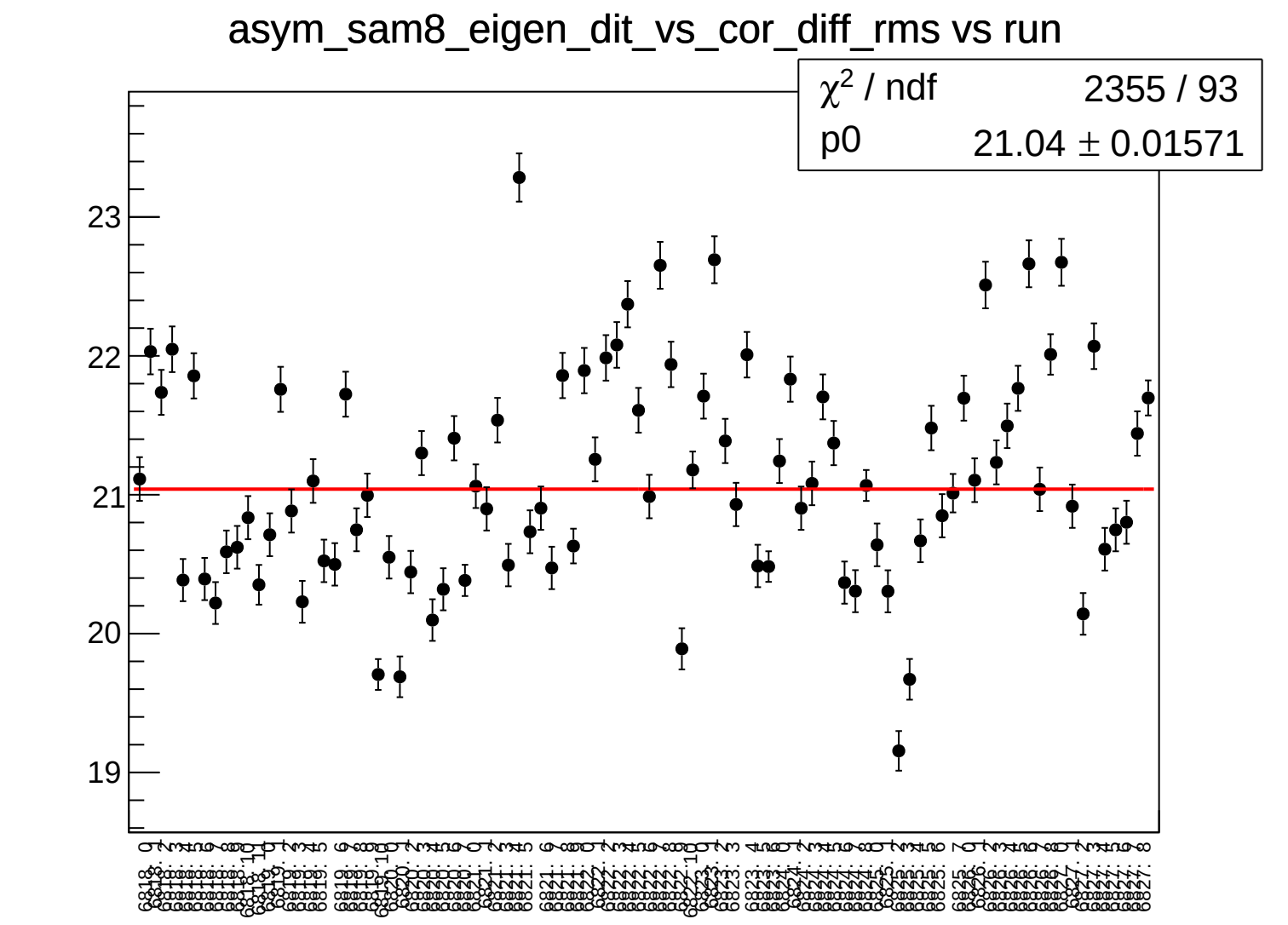

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.79 / 93
p0 2.659e−06 ± 2.106e−06
pull
Entries 94
Mean −714.8
Std Dev 0

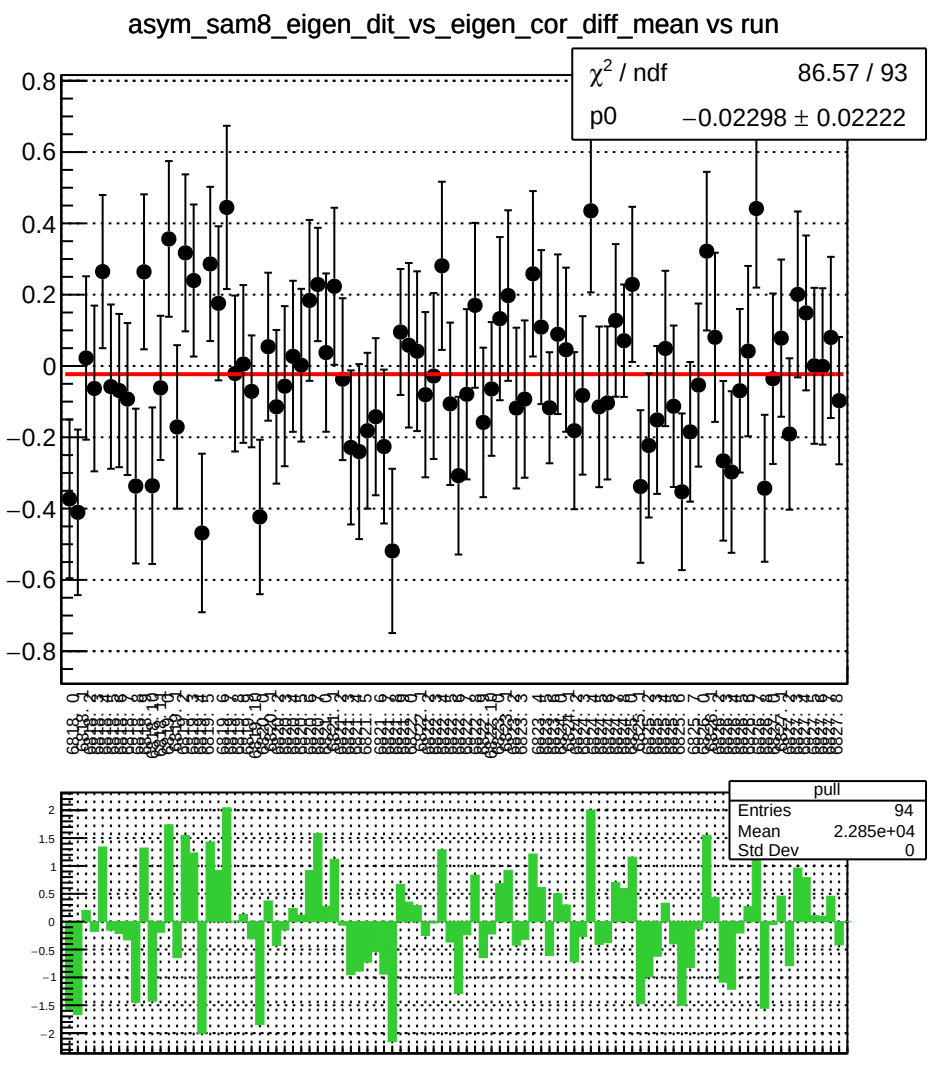

pull1D
Entries 94
Mean 0.003695
Std Dev 1.02

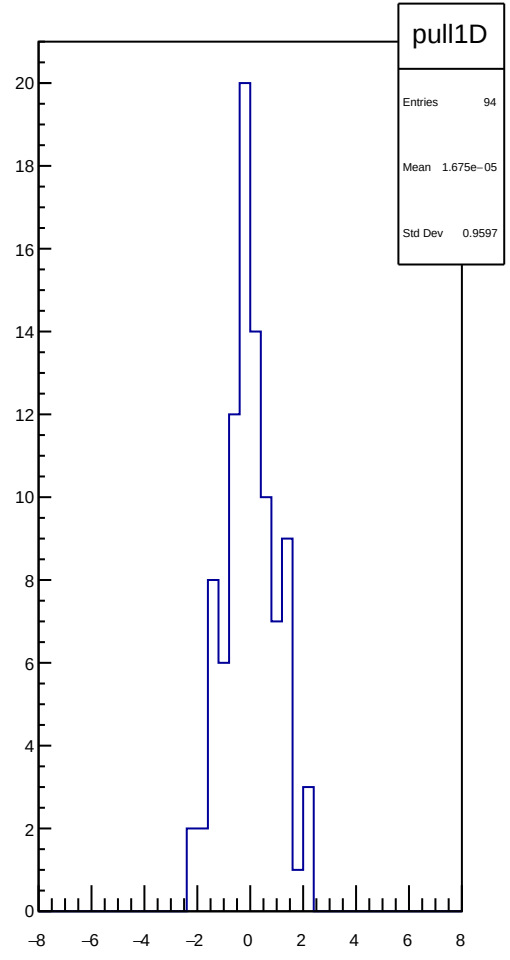

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4537 / 93
p0 0.001992 ± 1.489e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

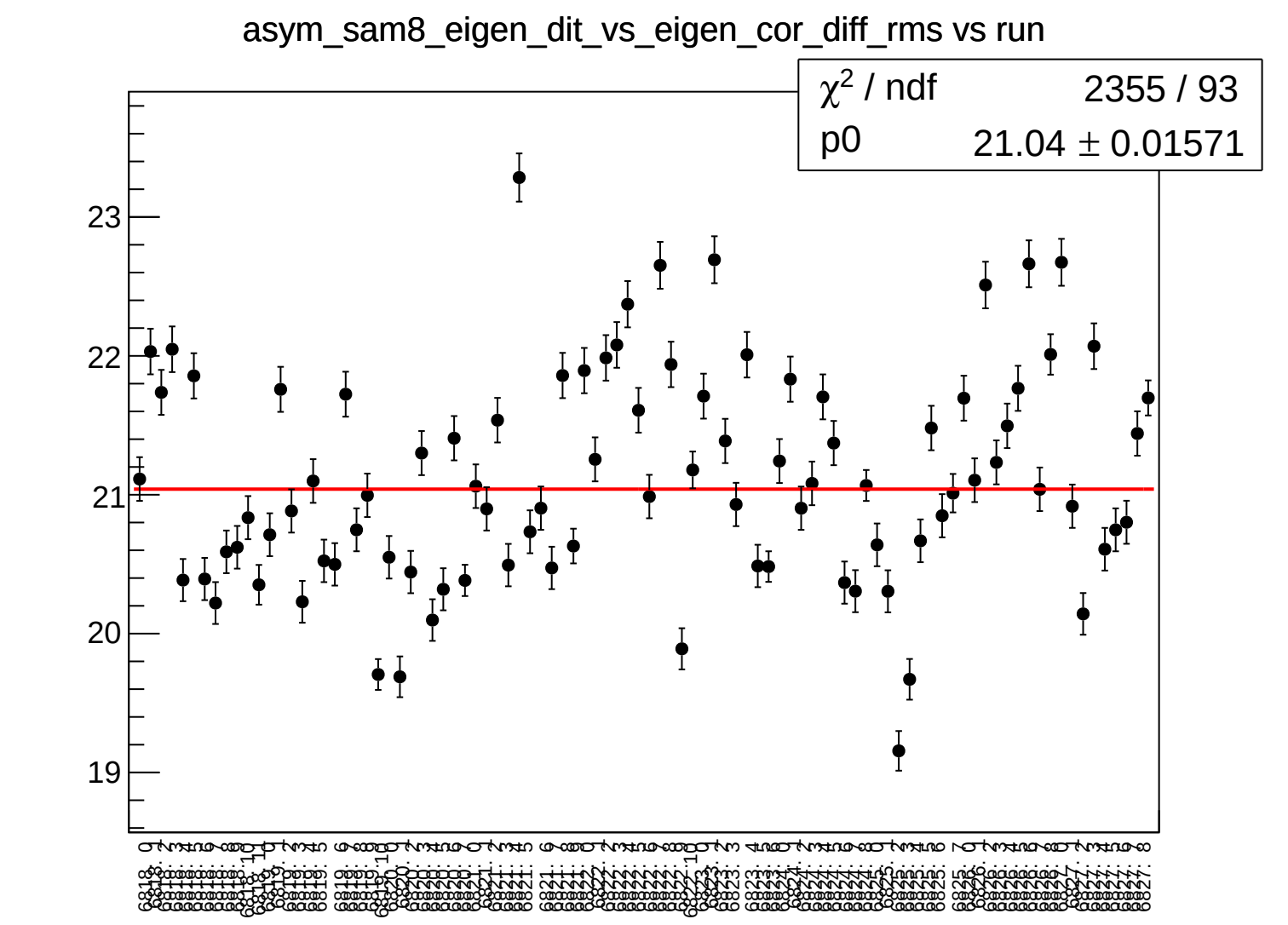

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.57 / 93
p0 −0.02298 ± 0.02222
pull
Entries 94
Mean 2.285e+04
Std Dev 0

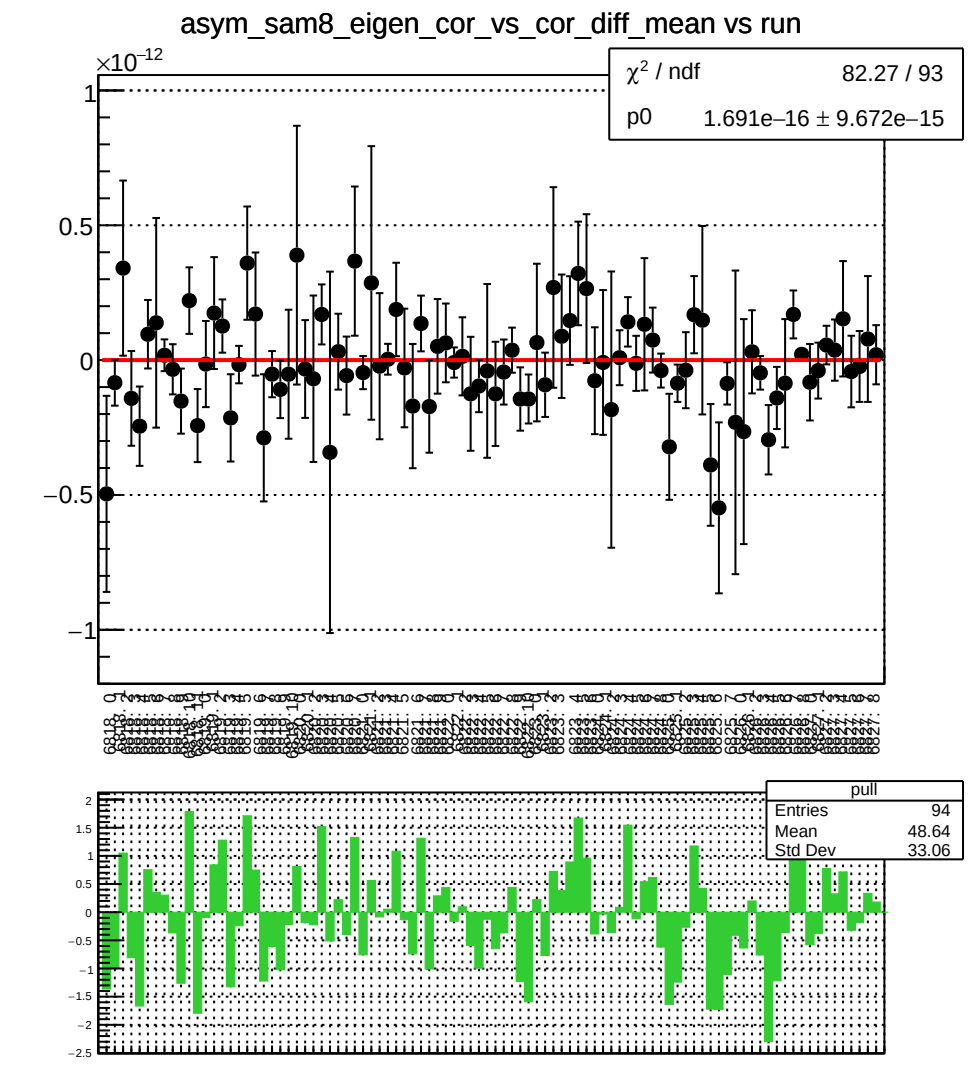

pull1D
Entries 94
Mean 1.675e−05
Std Dev 0.9597

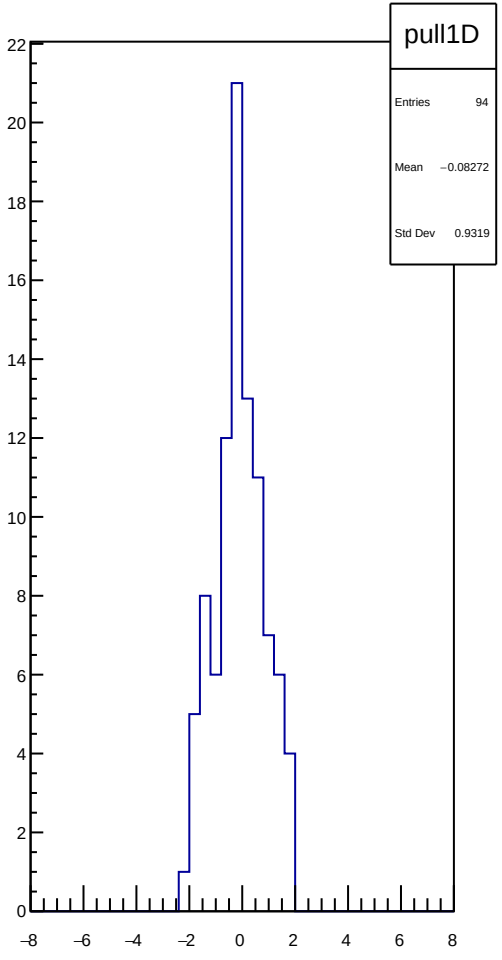

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2355 / 93
p0 21.04 ± 0.01571
23
22
21
20
19

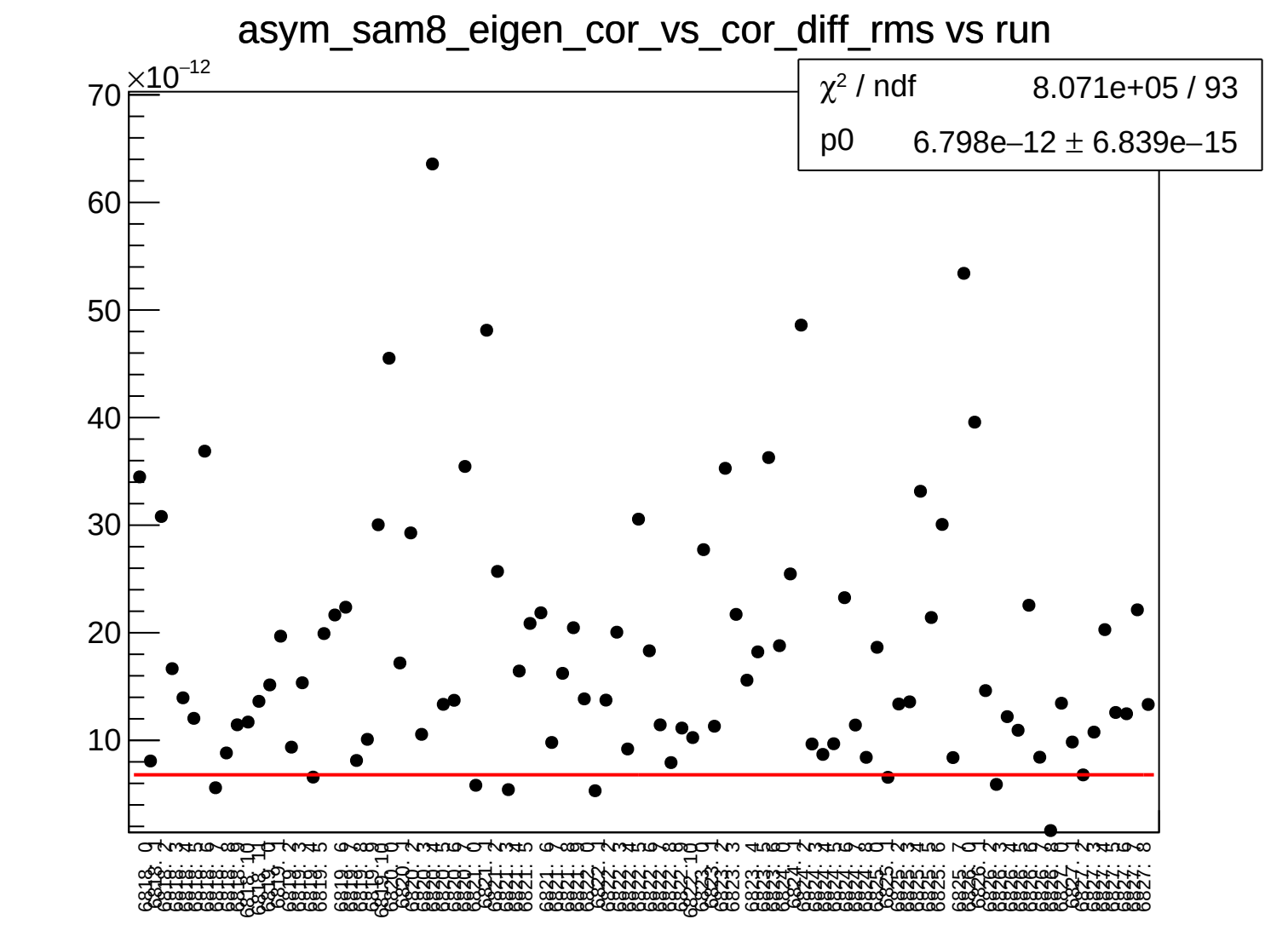

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.57 / 93
p0 −0.02298 ± 0.02222
pull
Entries 94
Mean 2.285e+04
Std Dev 0

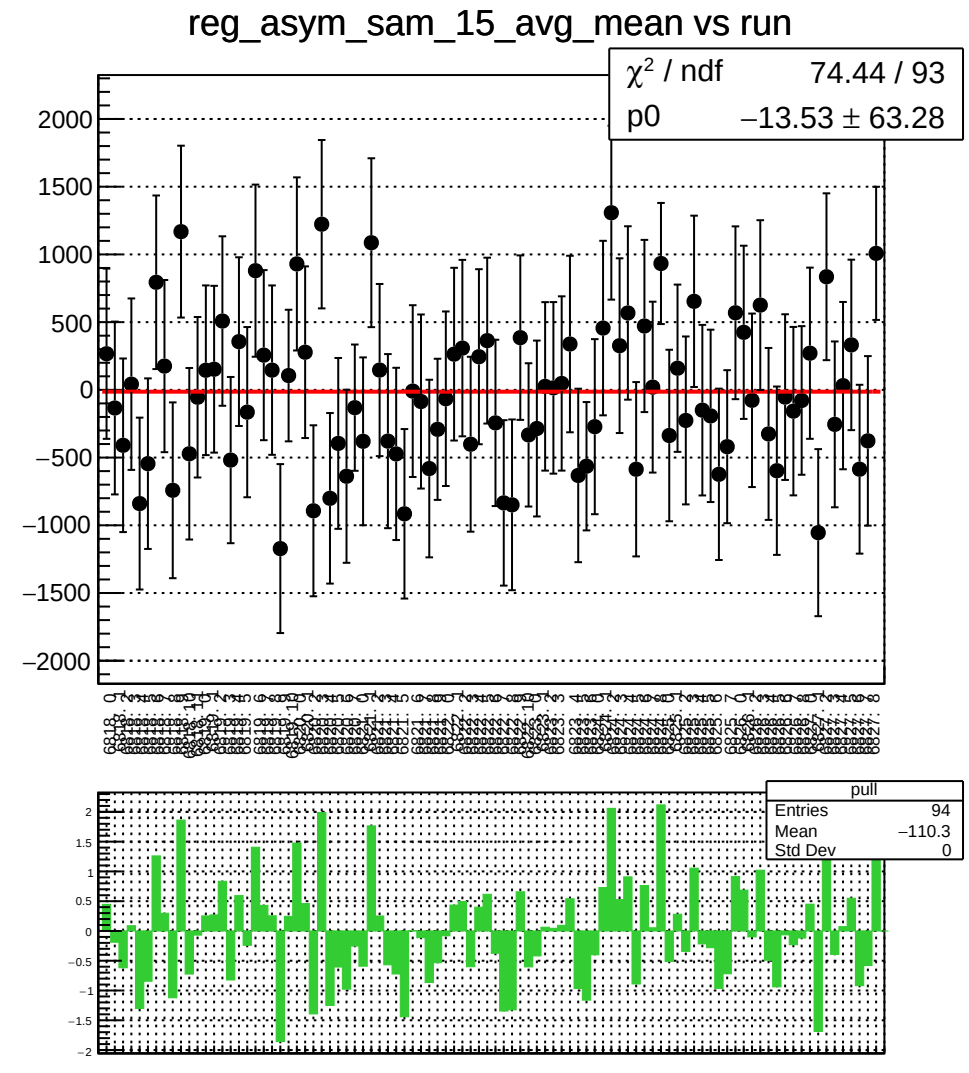

pull1D
Entries 94
Mean 1.675e−05
Std Dev 0.9597

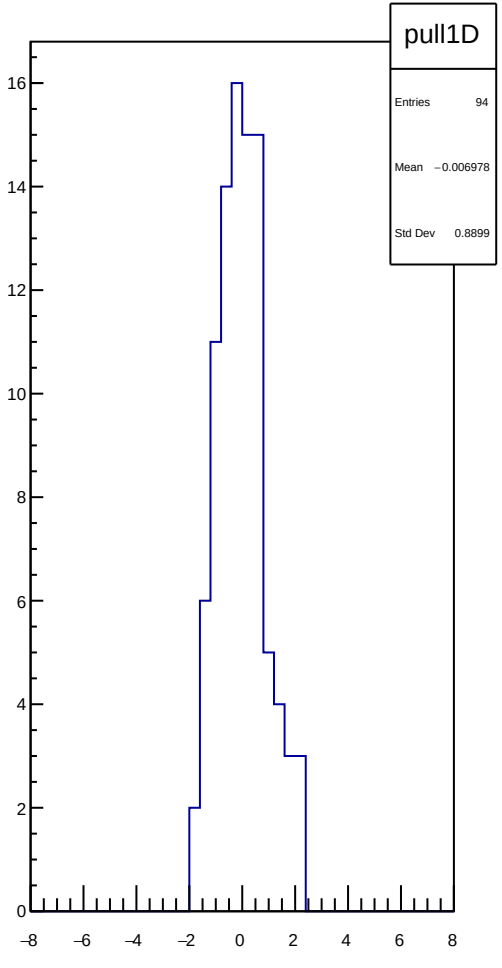

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2355 / 93
p0 21.04 ± 0.01571
23
22
21
20
19

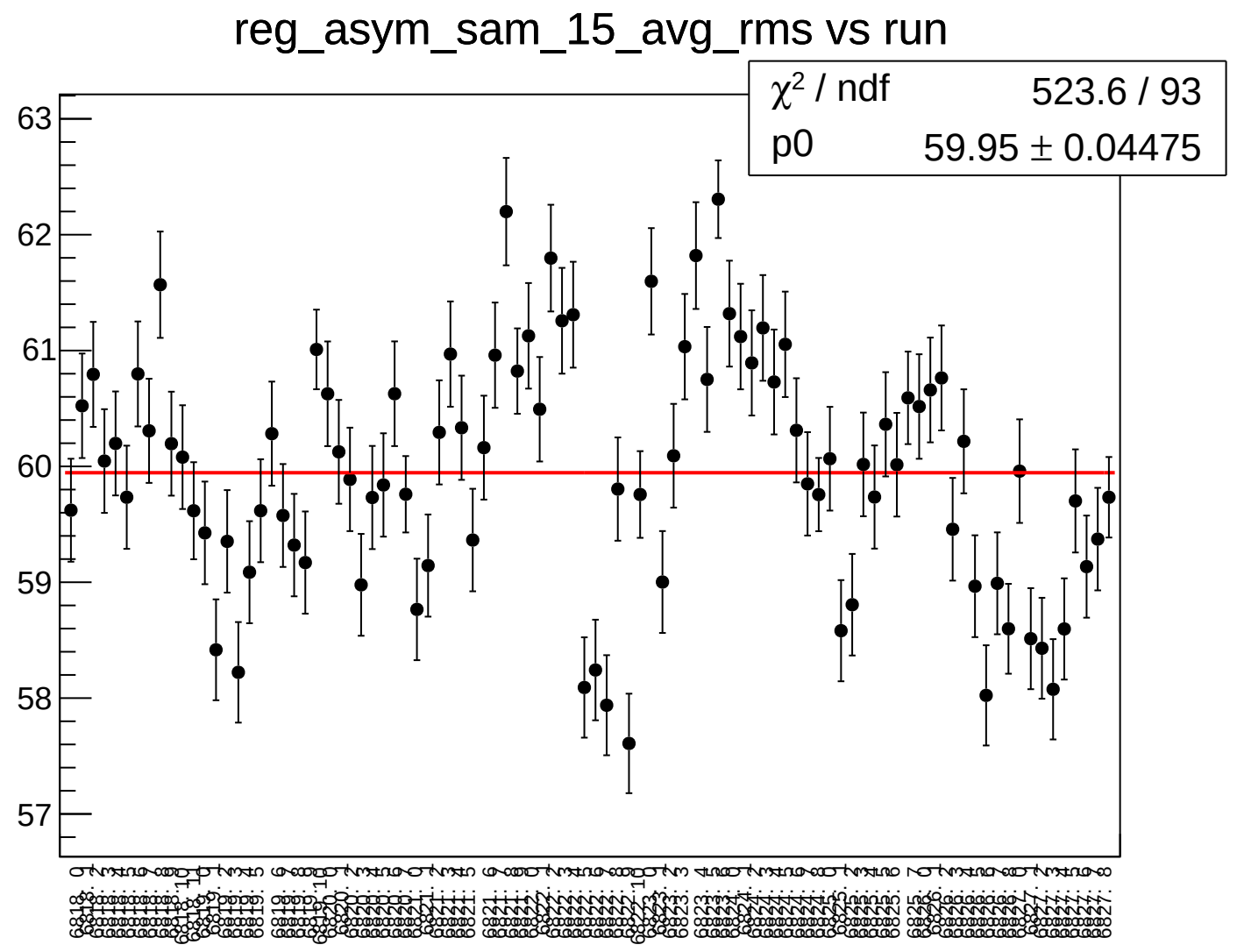

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.27 / 93
p0 1.691e−16 ± 9.672e−15
pull
Entries 94
Mean 48.64
Std Dev 33.06

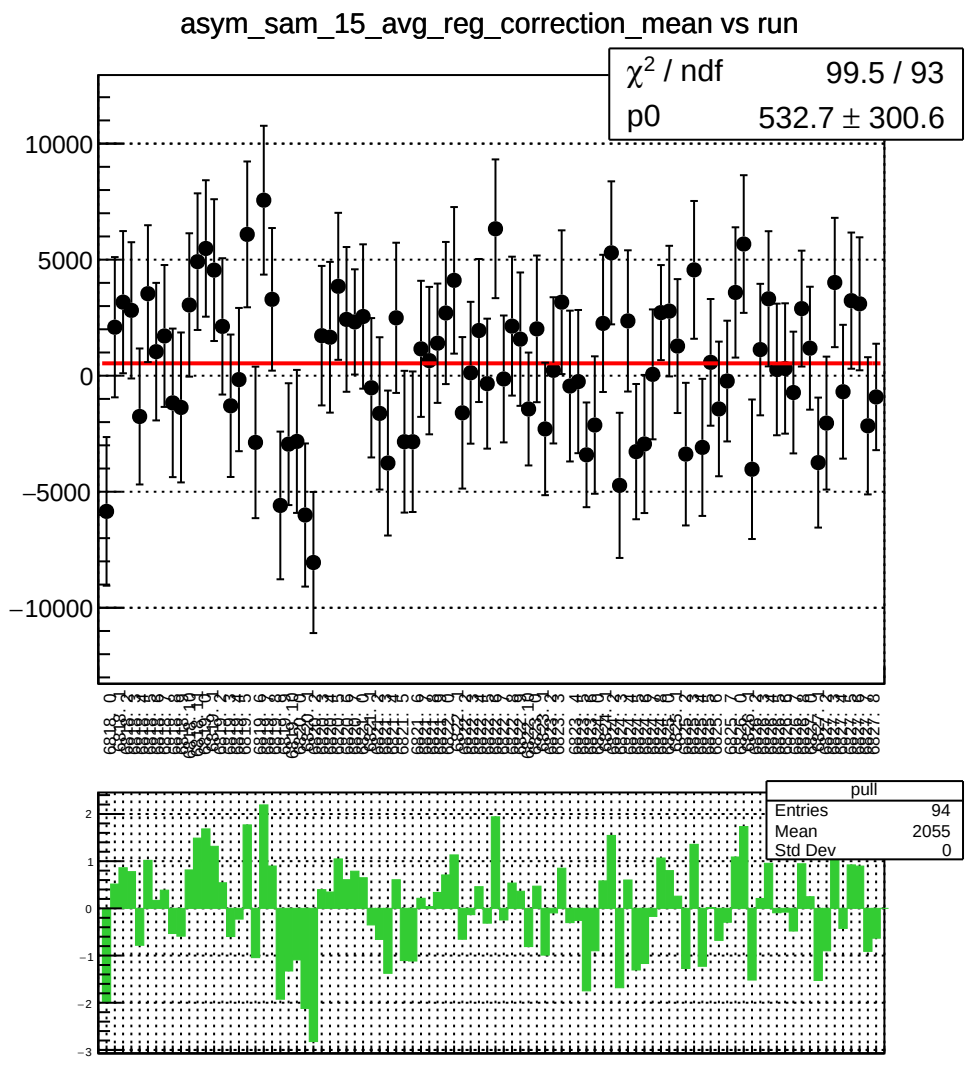

pull1D
Entries 94
Mean −0.08272
Std Dev 0.9319

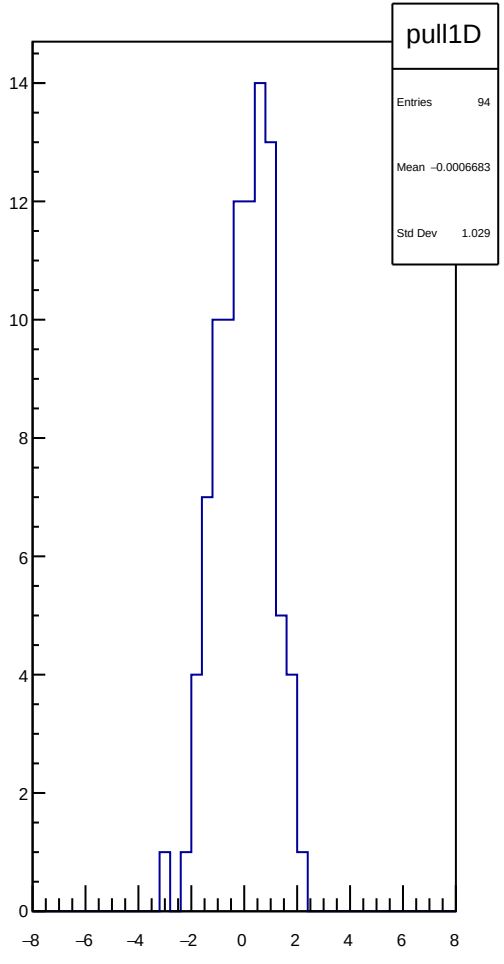

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 8.071e+05 / 93
p0 6.798e−12 ± 6.839e−15

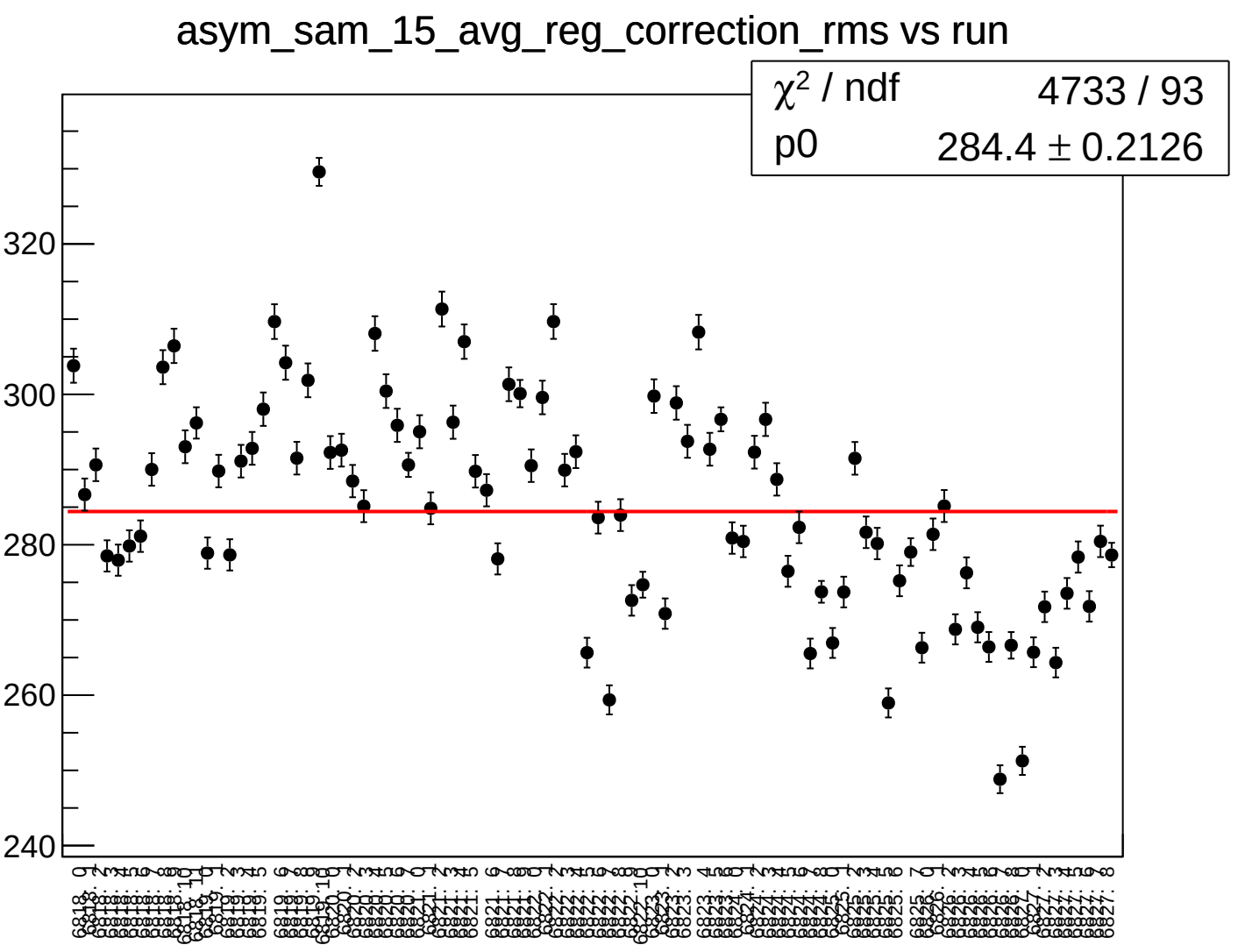

reg_asym_sam_15_avg_mean vs run
χ² / ndf 74.44 / 93
p0 −13.53 ± 63.28
pull
Entries 94
Mean −110.3
Std Dev 0

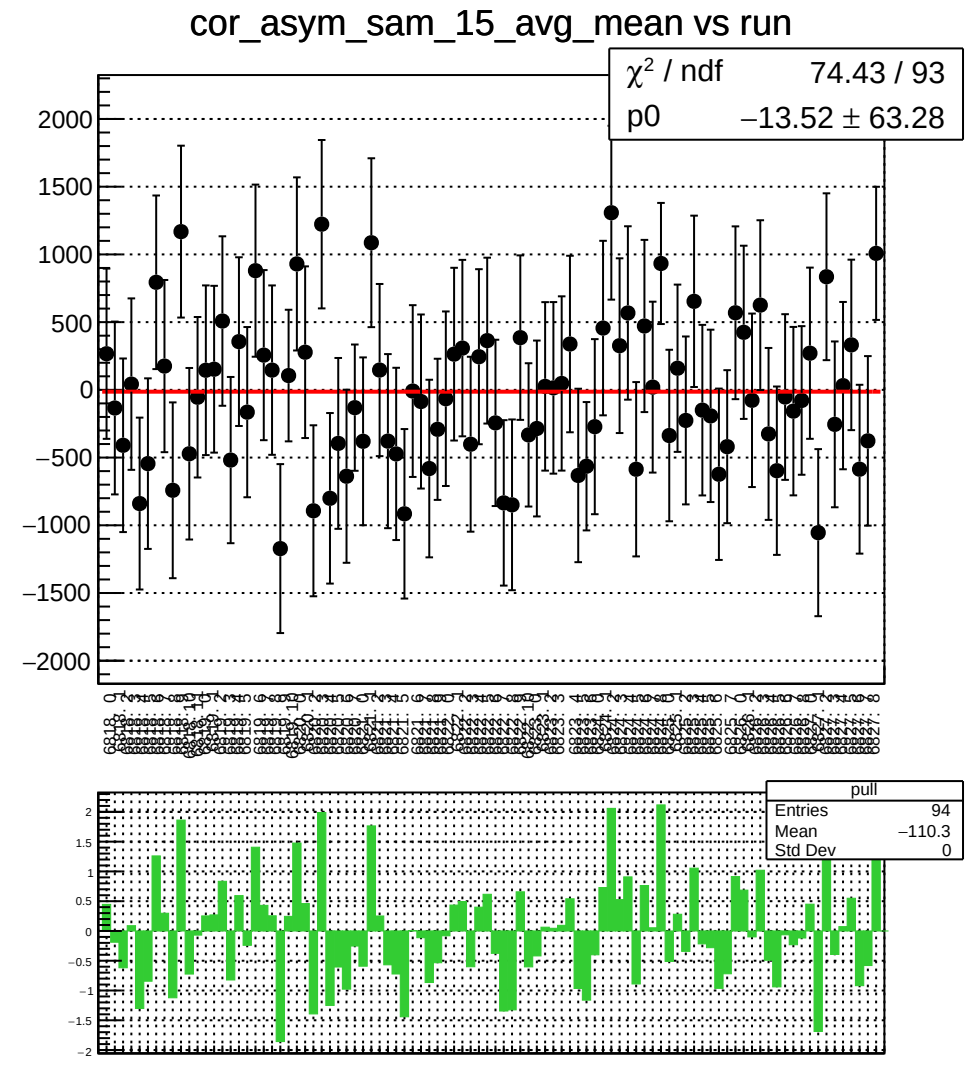

pull1D
Entries 94
Mean −0.006978
Std Dev 0.8899

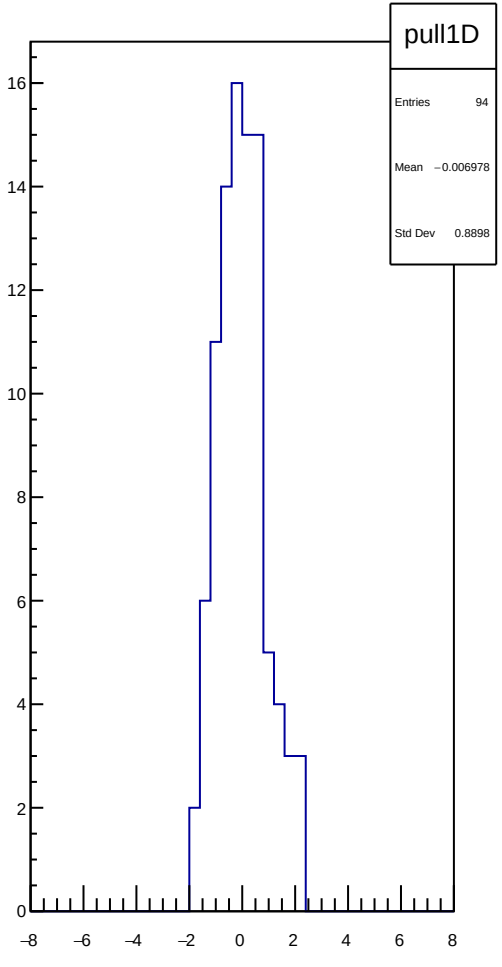

reg_asym_sam_15_avg_rms vs run
χ² / ndf 523.6 / 93
p0 59.95 ± 0.04475
63
62
61
60
59
58
57

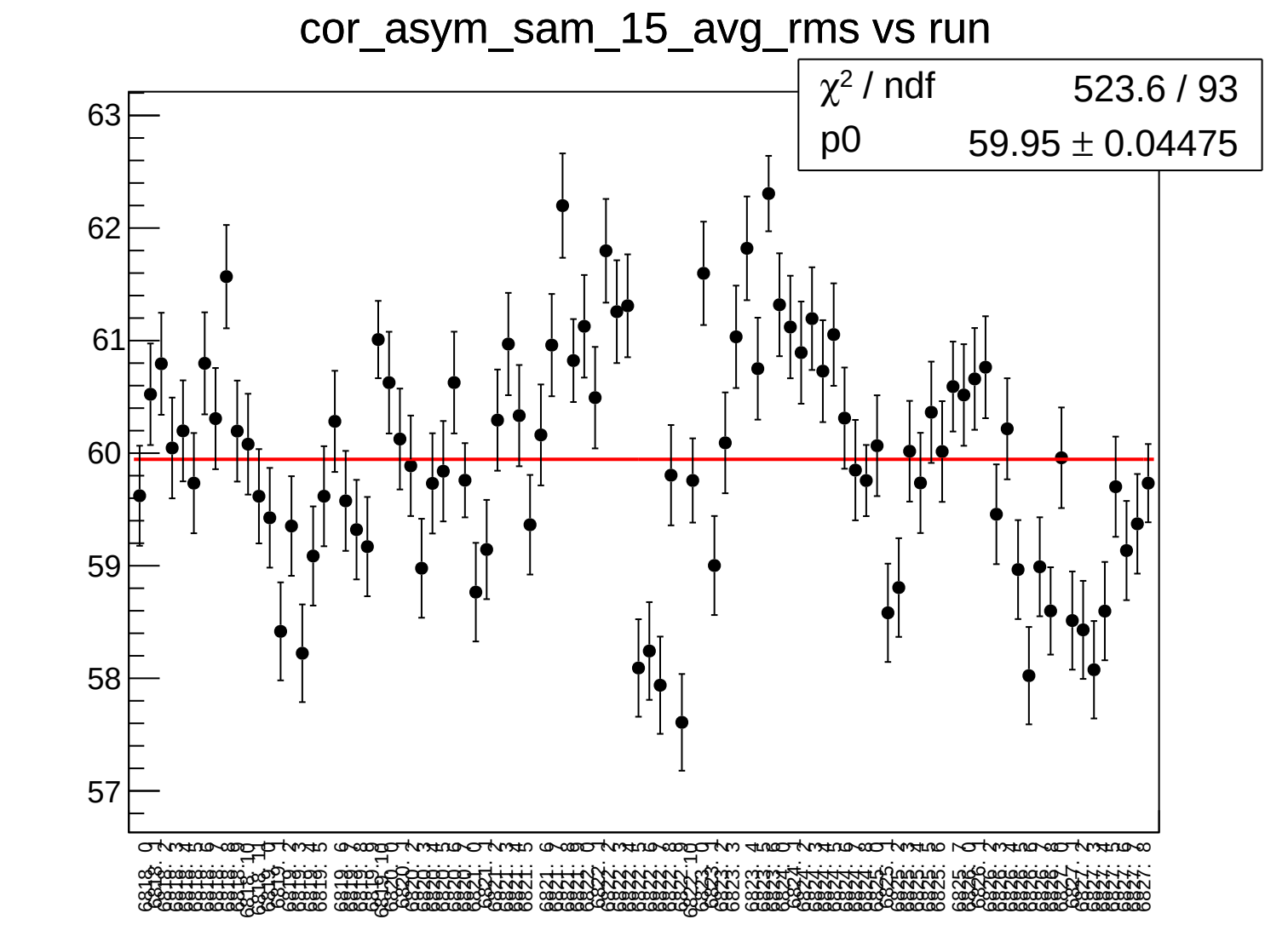

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 99.5 / 93
p0 532.7 ± 300.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 2055
Std Dev 0
2
1
0
−1
−2
−3

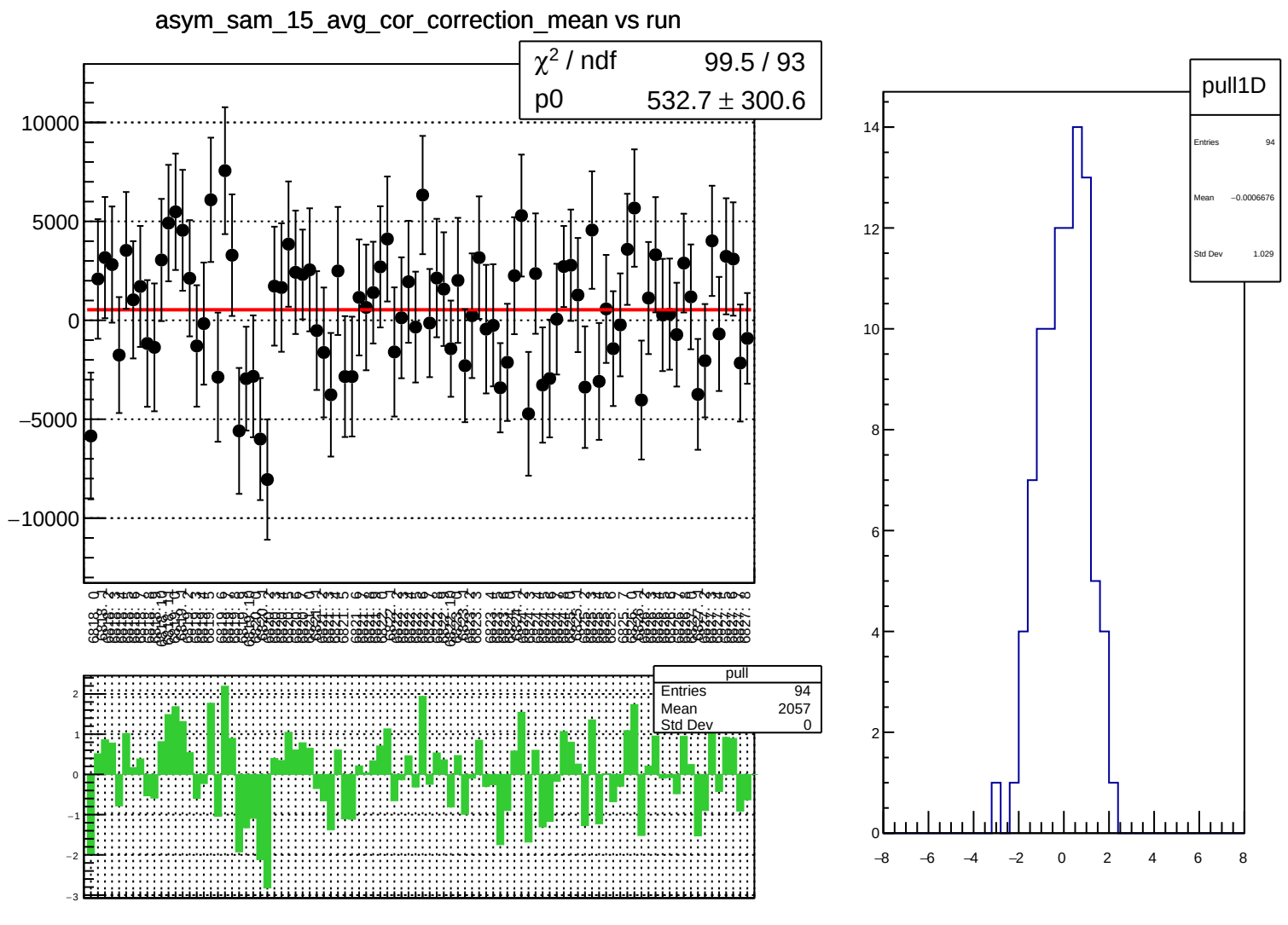

pull1D
Entries 94
Mean −0.0006683
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

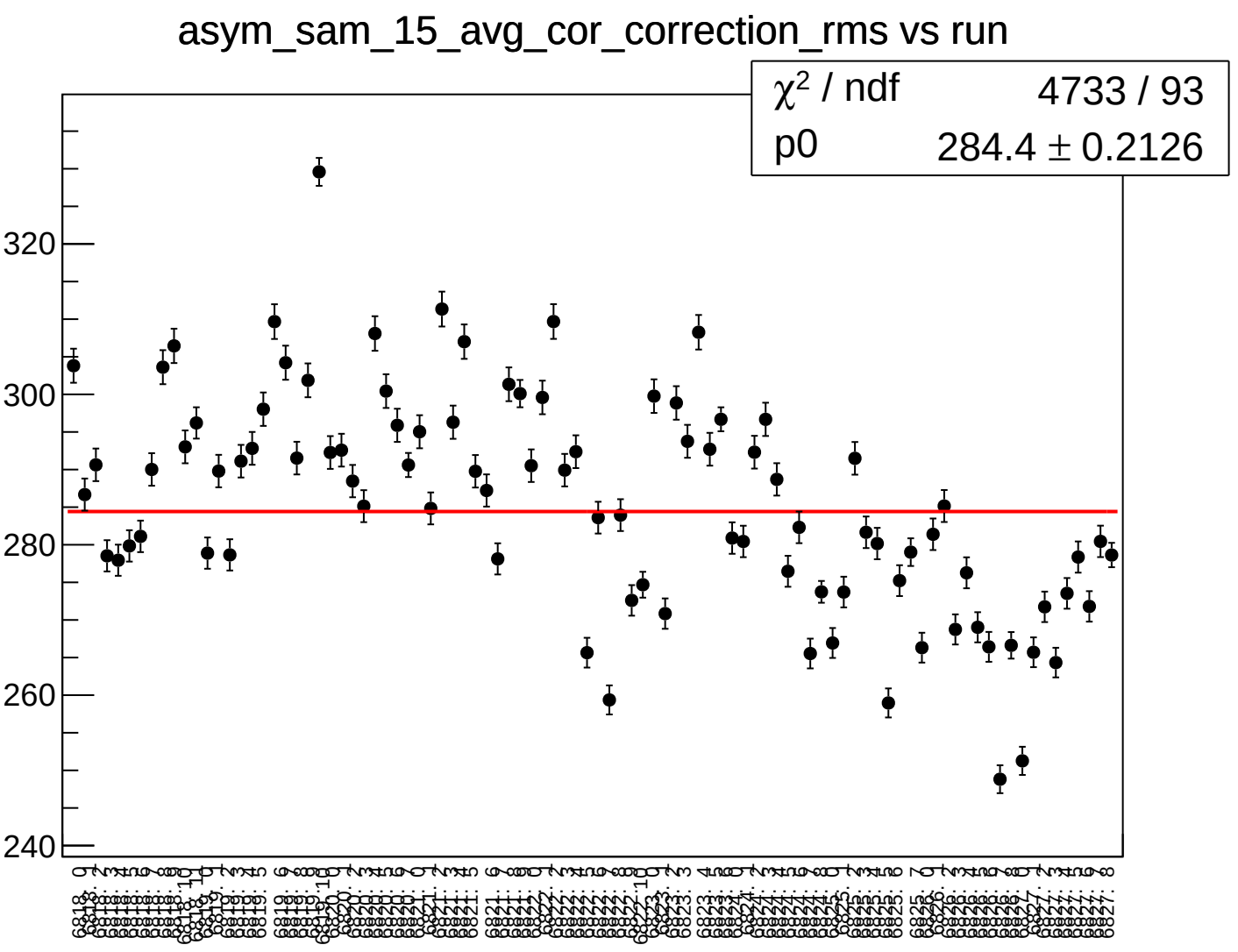

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4733 / 93
p0 284.4 ± 0.2126
320
300
280
260
240

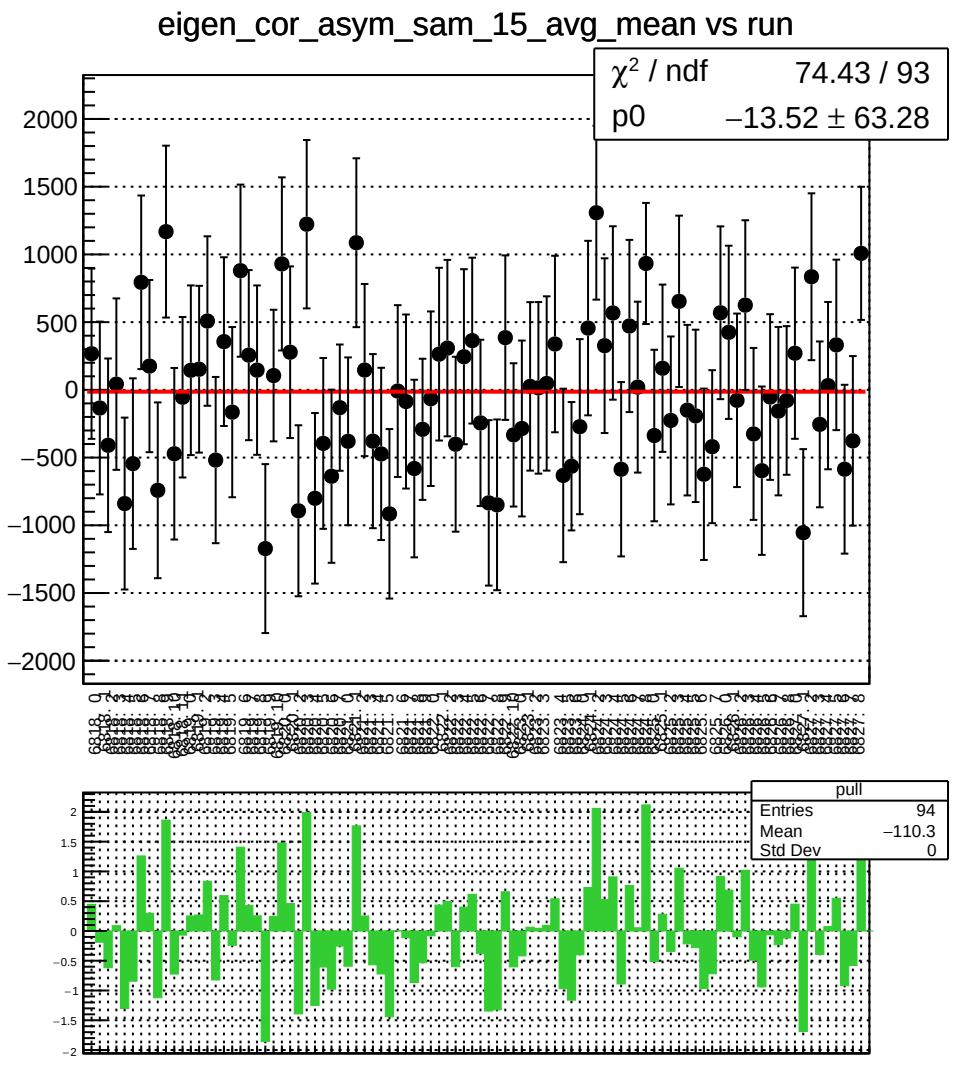

cor_asym_sam_15_avg_mean vs run
χ² / ndf 74.43 / 93
p0 −13.52 ± 63.28
pull
Entries 94
Mean −110.3
Std Dev 0

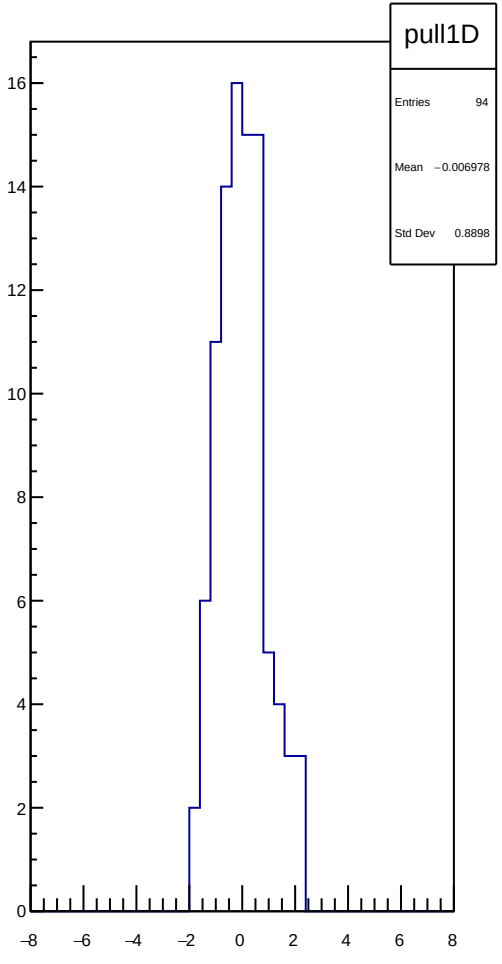

pull1D
Entries 94
Mean −0.006978
Std Dev 0.8898

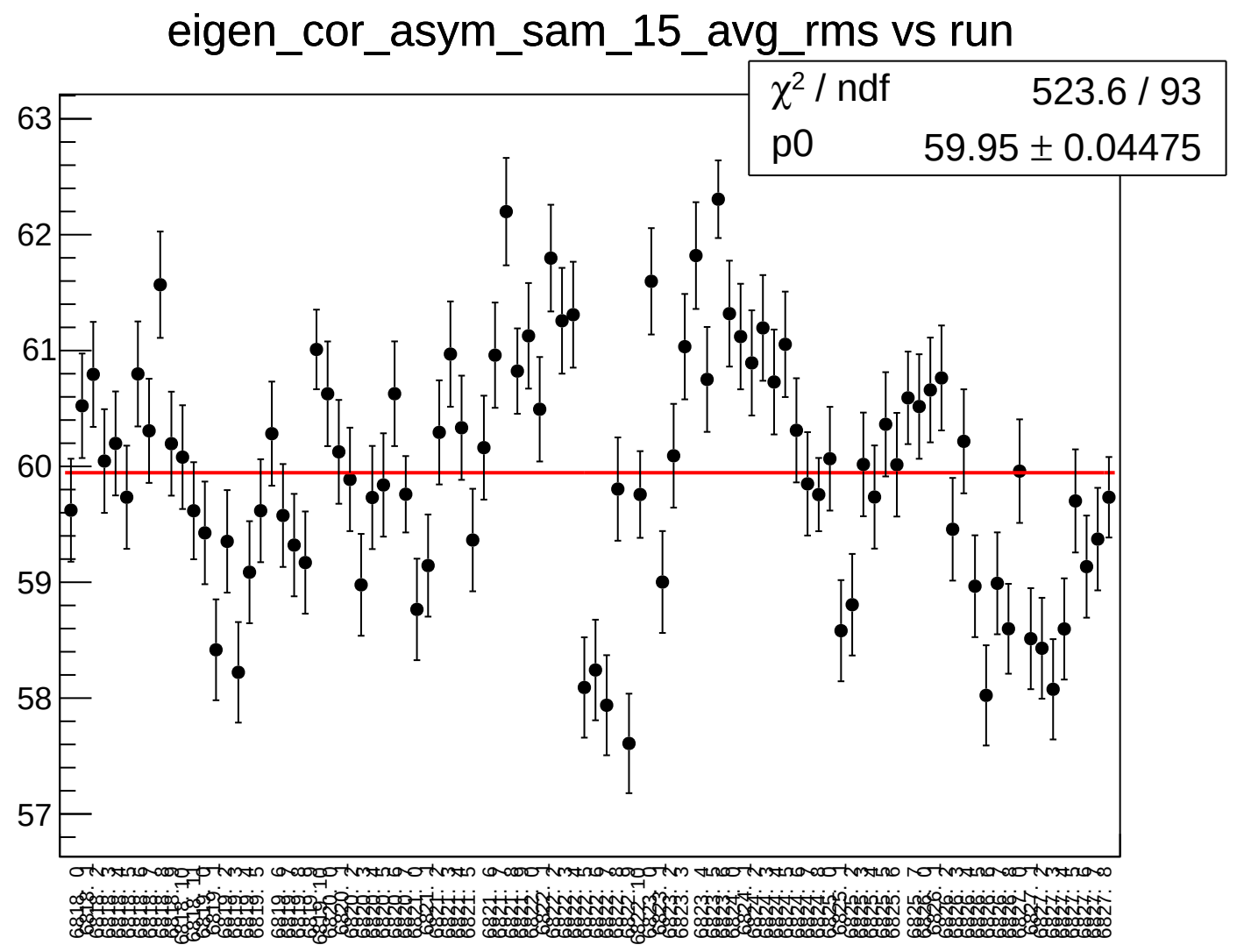

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 523.6 / 93
p0 59.95 ± 0.04475
63
62
61
60
59
58
57

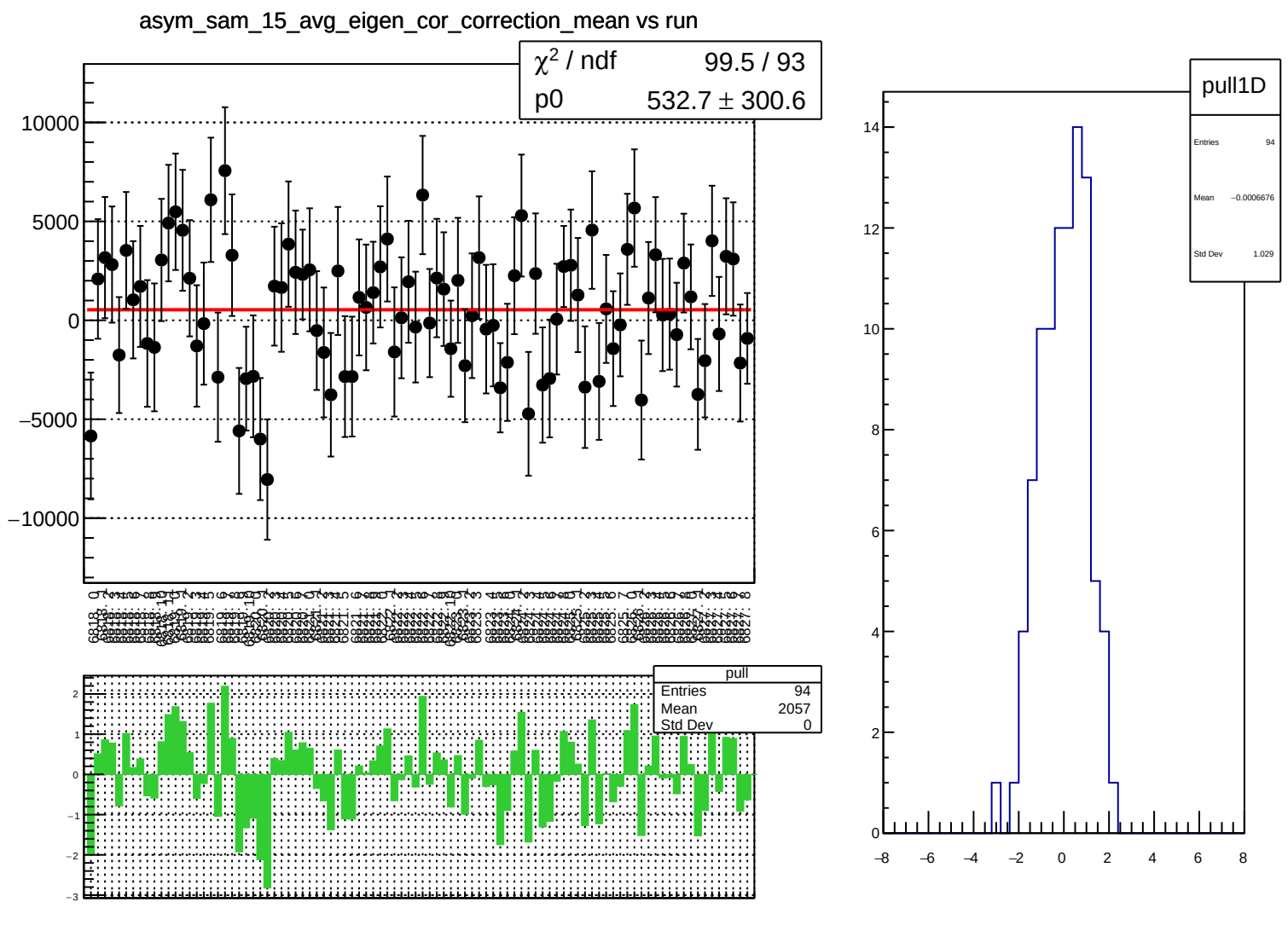

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 99.5 / 93
p0 532.7 ± 300.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 2057
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0006676
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

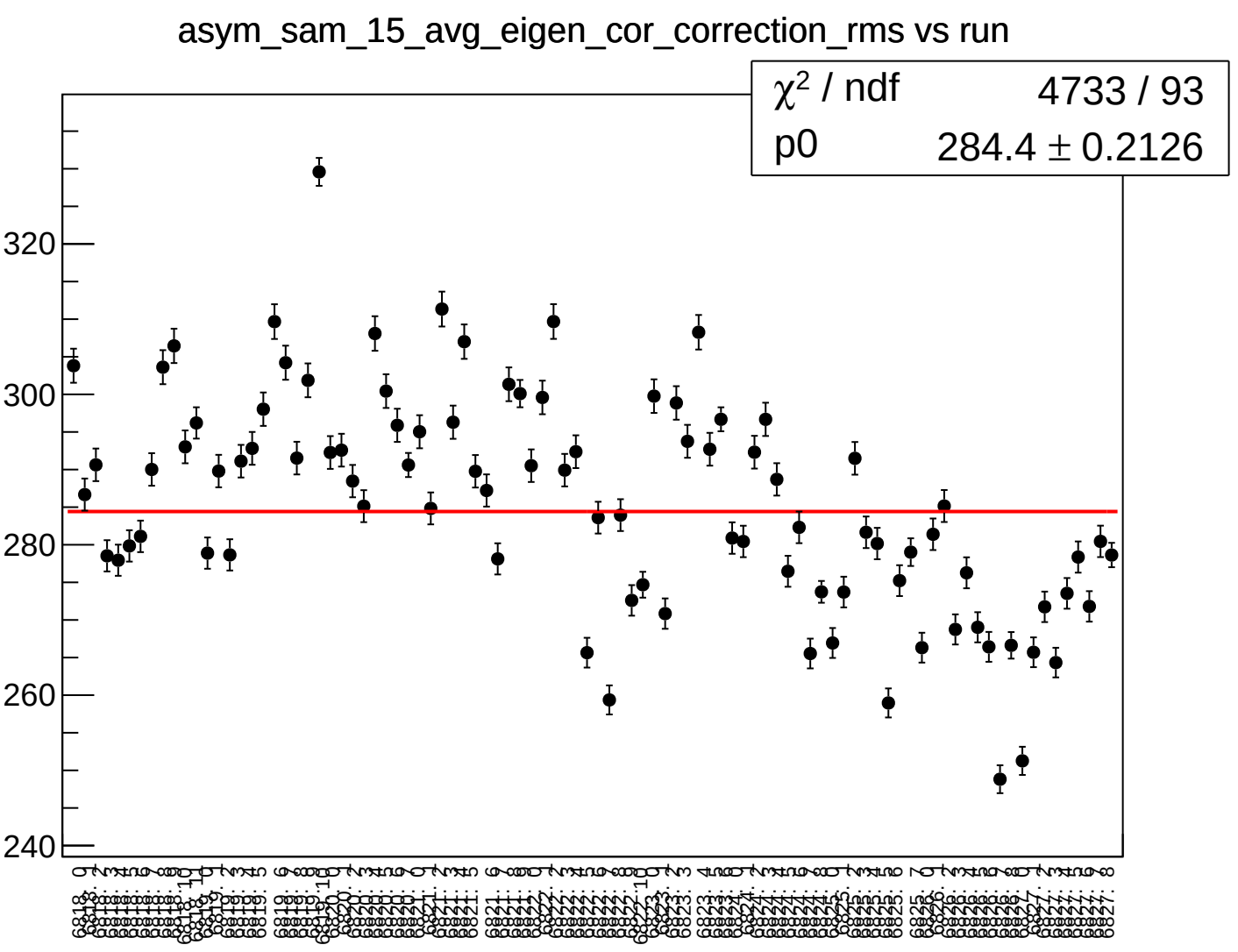

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4733 / 93
p0 284.4 ± 0.2126
320
300
280
260
240

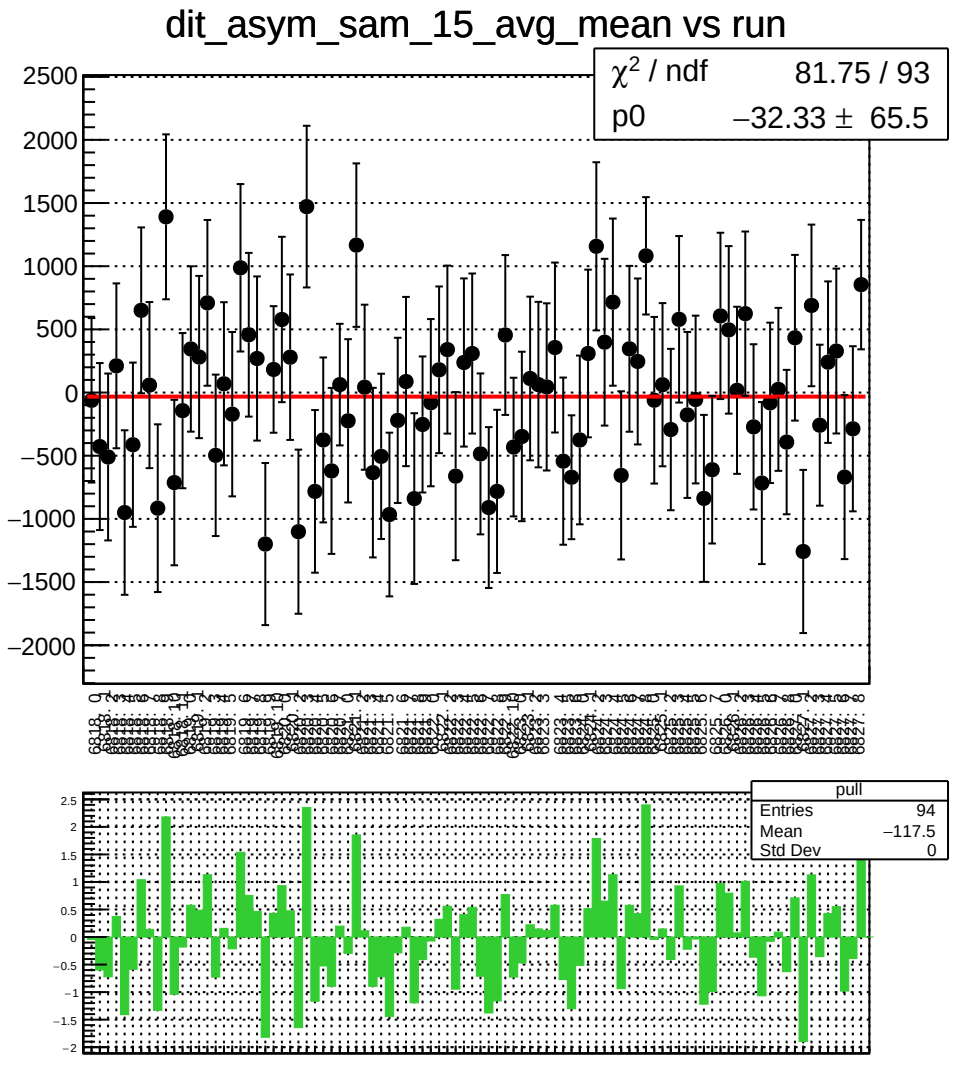

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 74.43 / 93
p0 −13.52 ± 63.28
pull
Entries 94
Mean −110.3
Std Dev 0

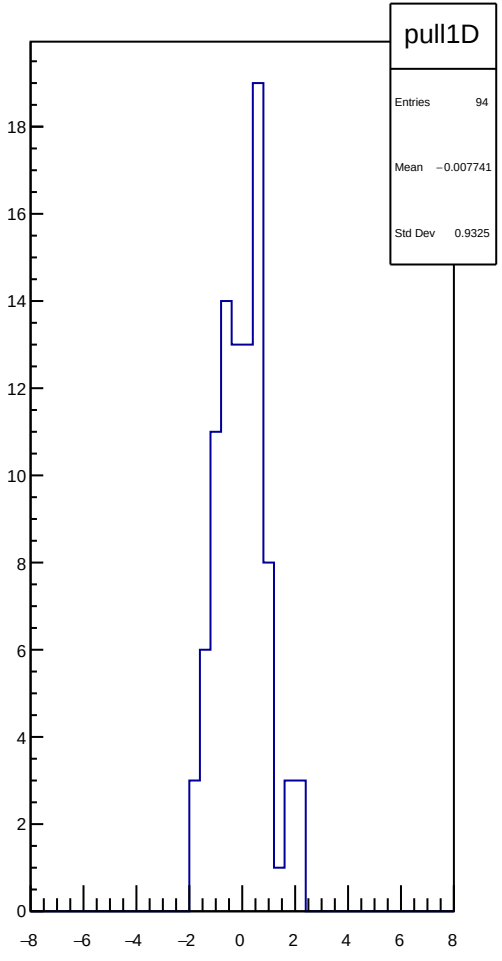

pull1D
Entries 94
Mean −0.006978
Std Dev 0.8898

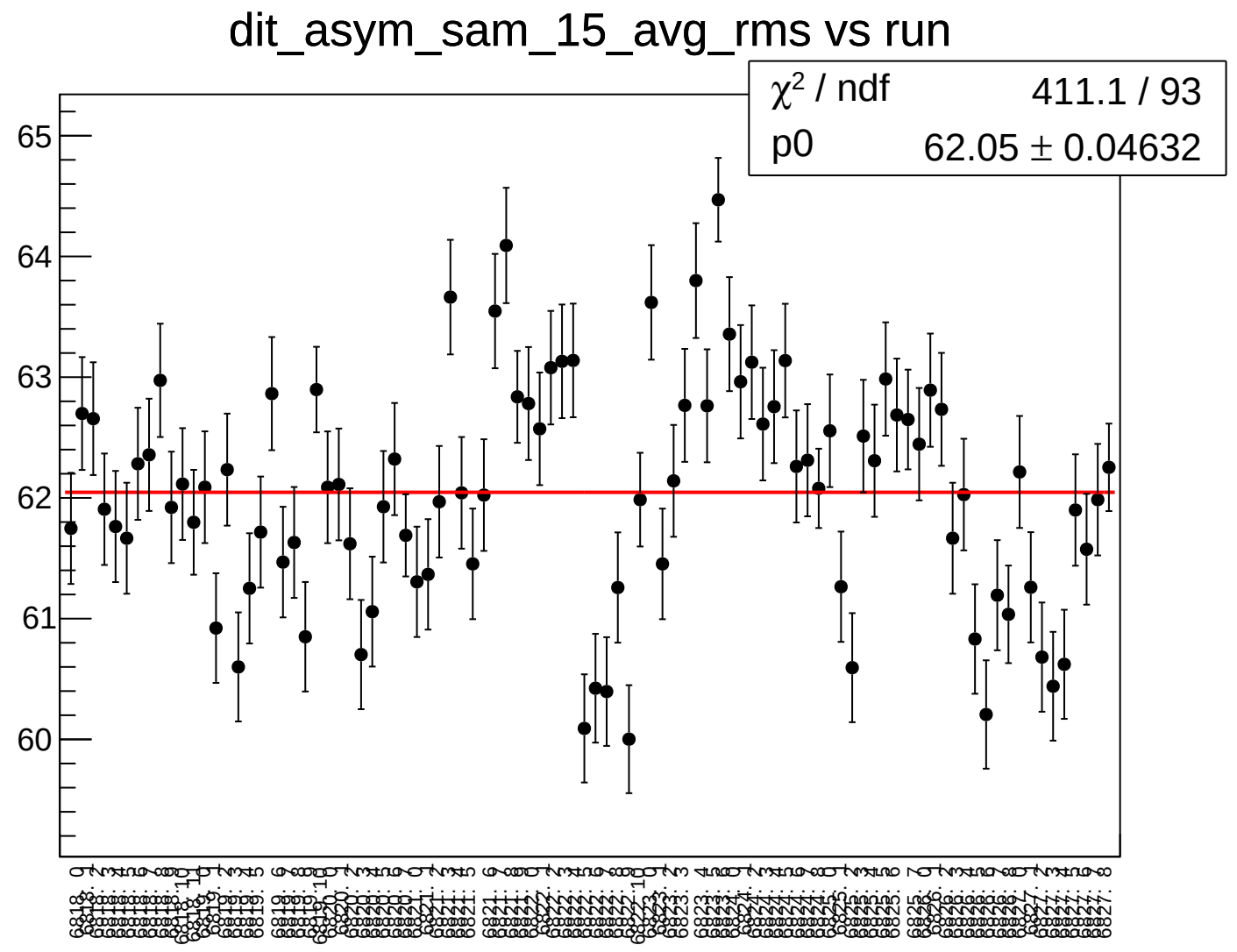

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 523.6 / 93
p0 59.95 ± 0.04475
63
62
61
60
59
58
57

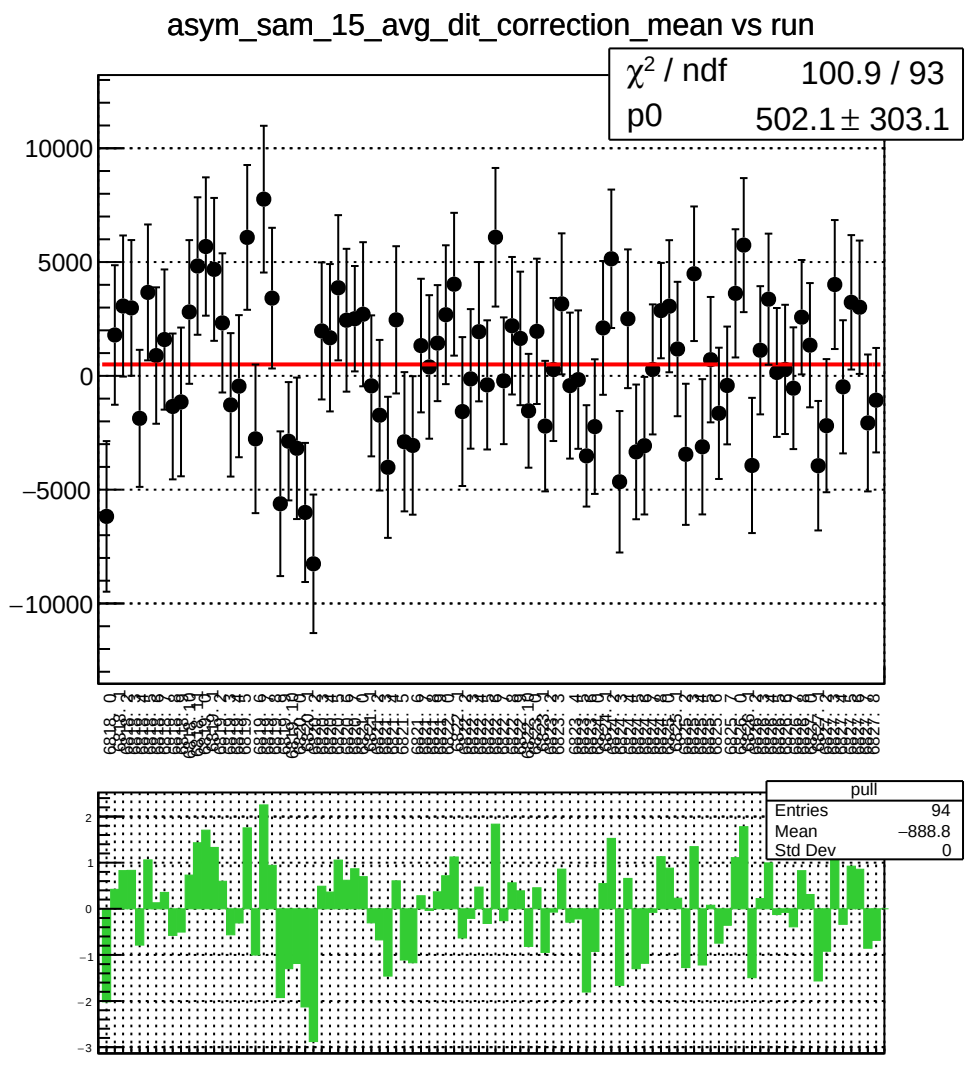

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.5 / 93
p0 532.7 ± 300.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 2057
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0006676
Std Dev 1.029
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

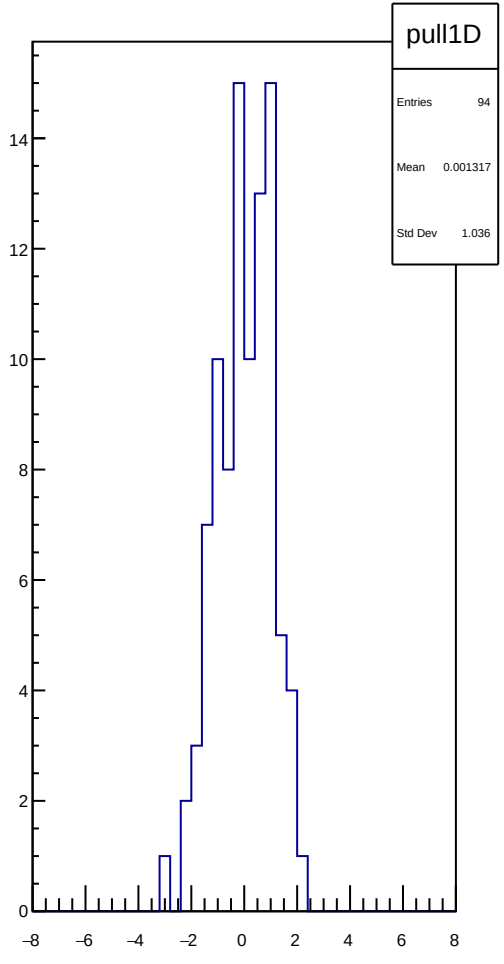

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4733 / 93
p0 284.4 ± 0.2126
320
300
280
260
240

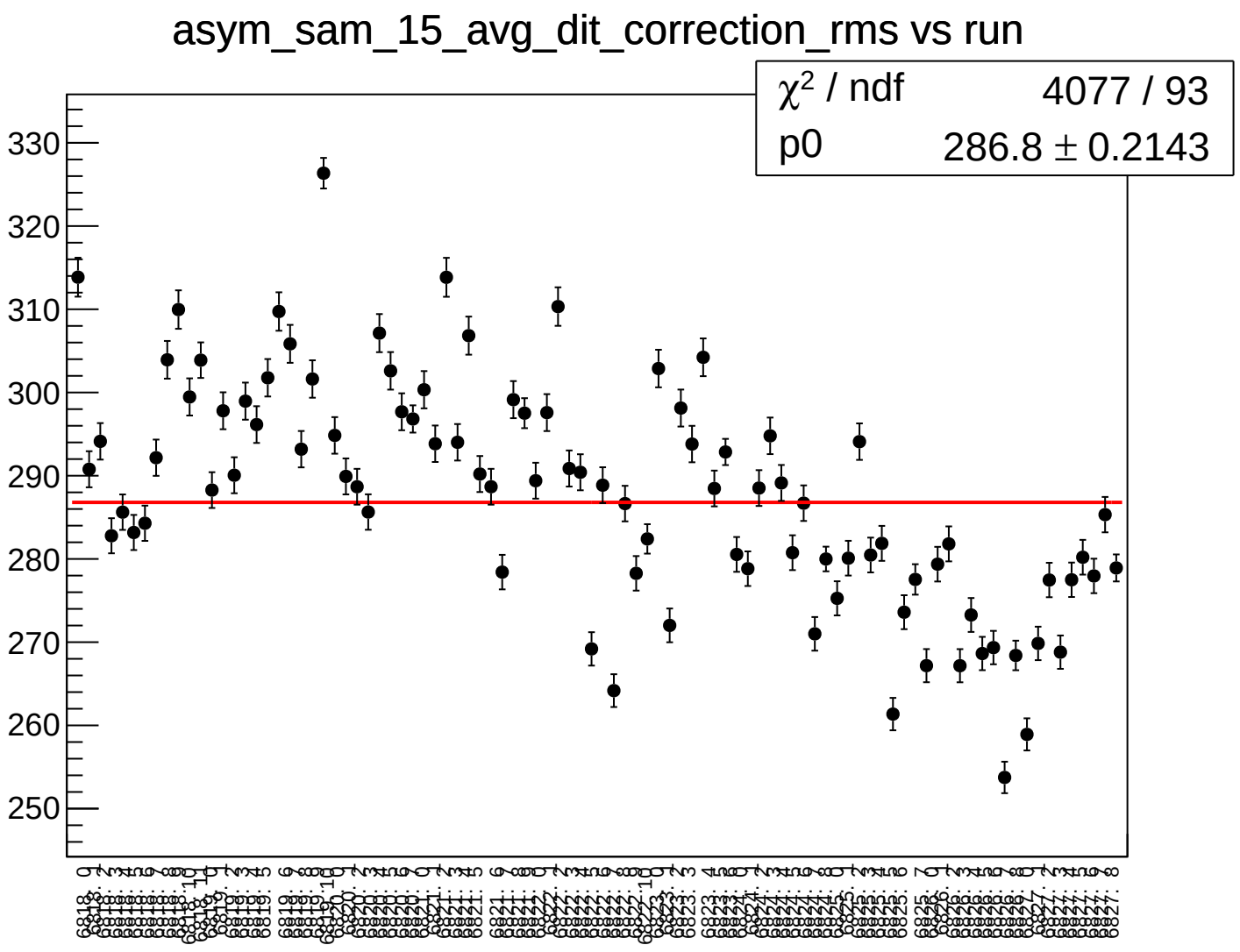

dit_asym_sam_15_avg_mean vs run
χ² / ndf 81.75 / 93
p0 −32.33 ± 65.5
pull
Entries 94
Mean −117.5
Std Dev 0

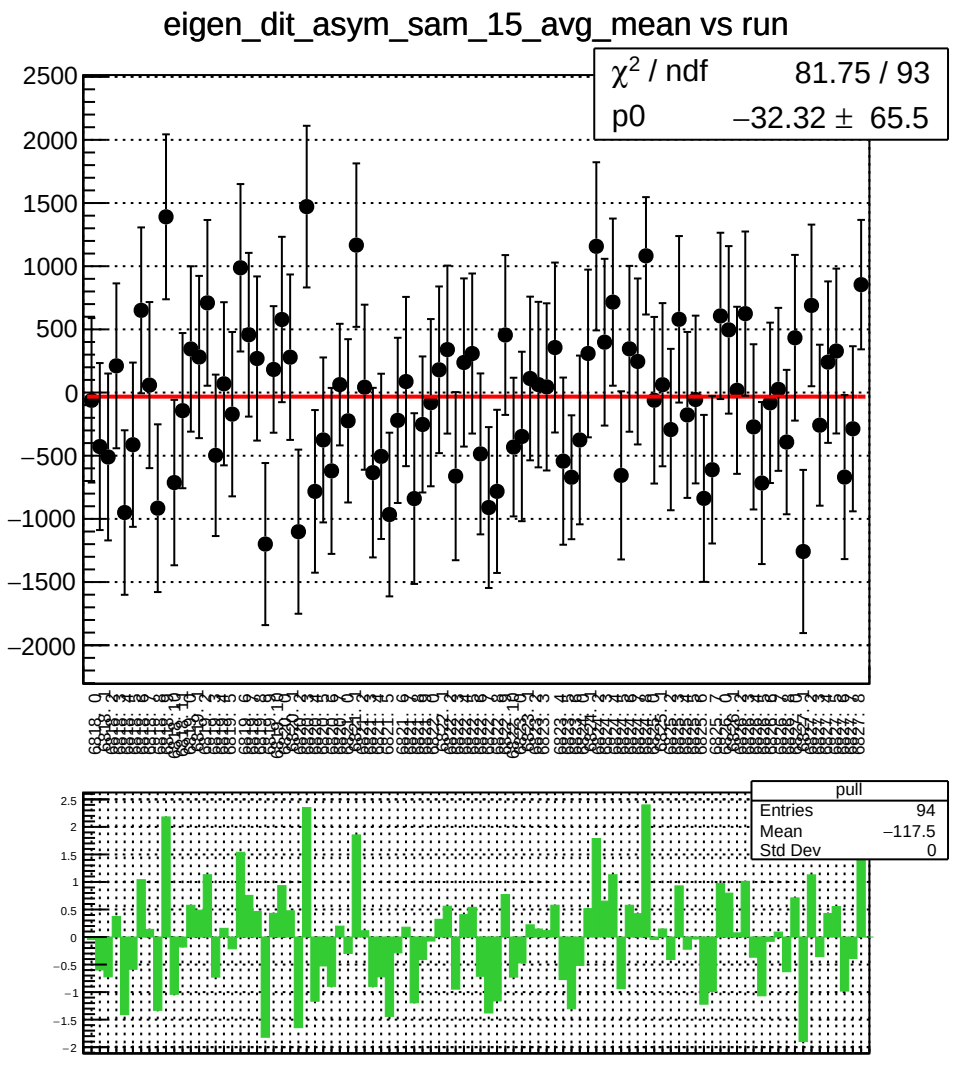

pull1D
Entries 94
Mean −0.007741
Std Dev 0.9325

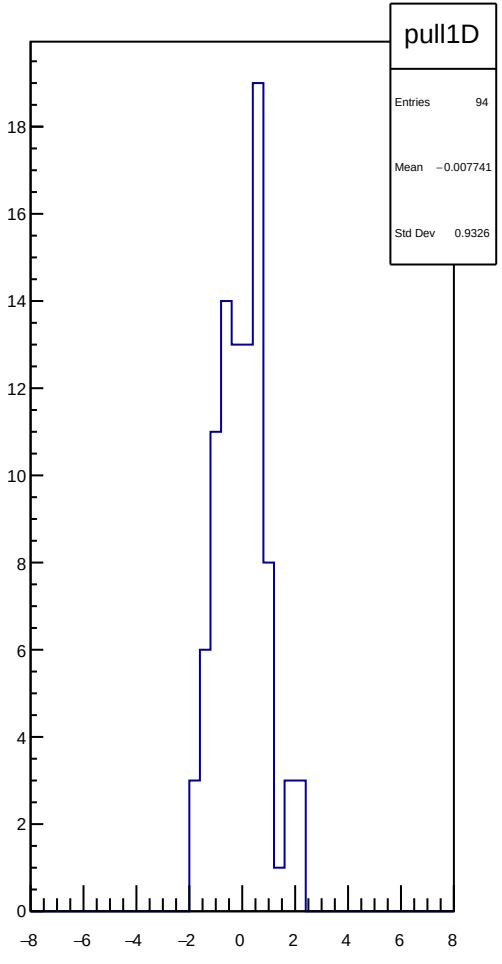

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 411.1 / 93
p0 62.05 ± 0.04632
65
64
63
62
61
60

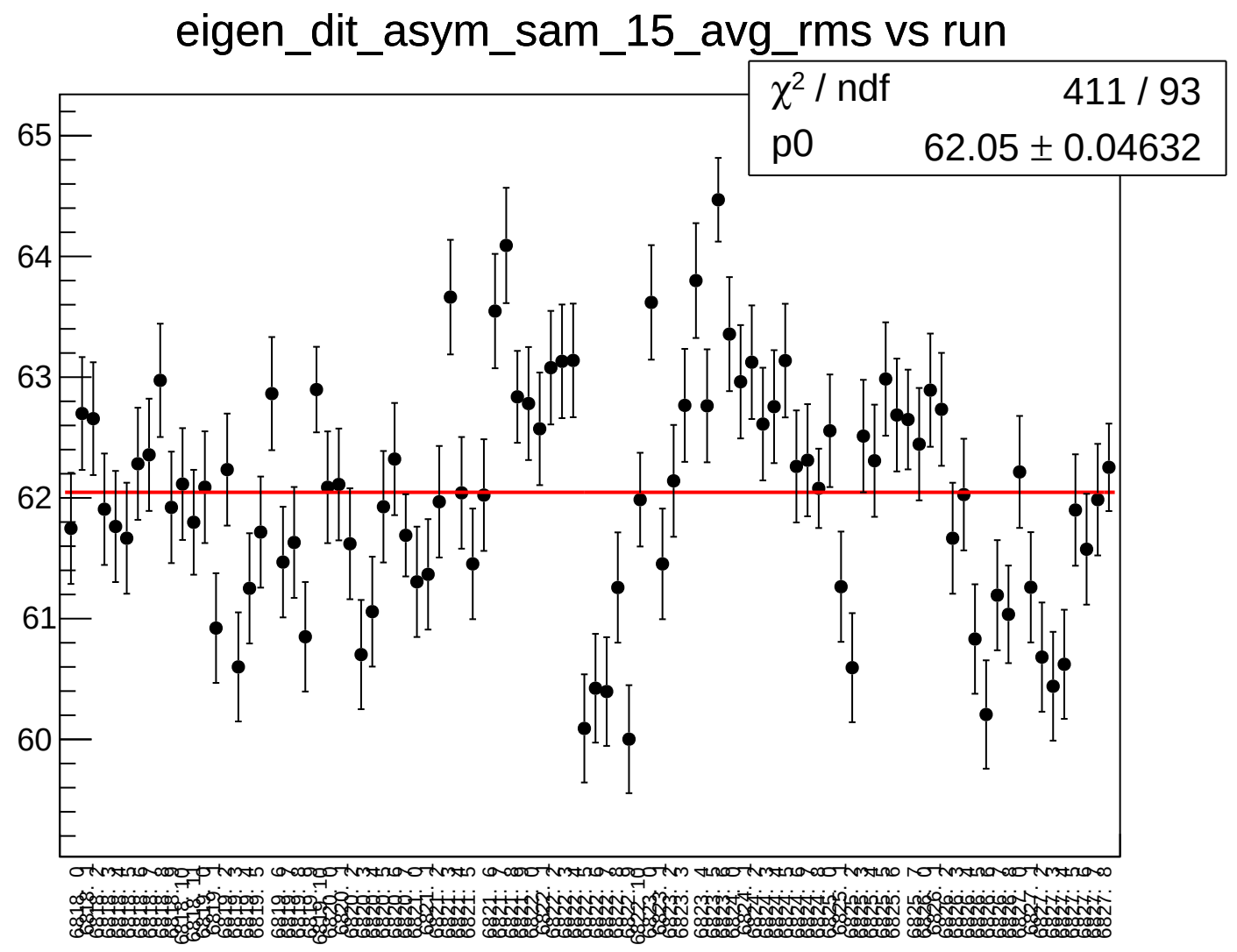

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 100.9 / 93
p0 502.1 ± 303.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −888.8
Std Dev 0
2
1
0
−1
−2
−3

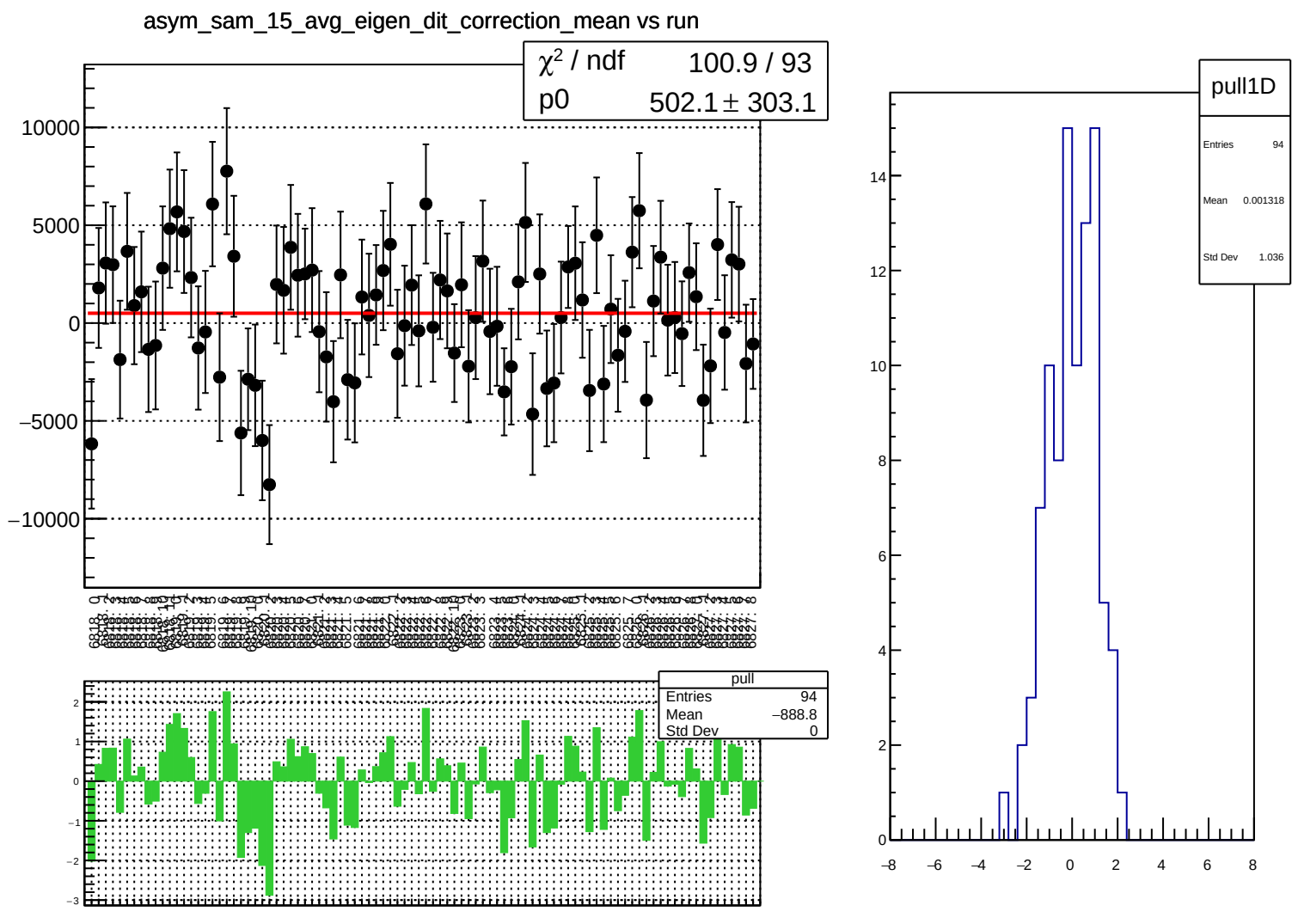

pull1D
Entries 94
Mean 0.001317
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

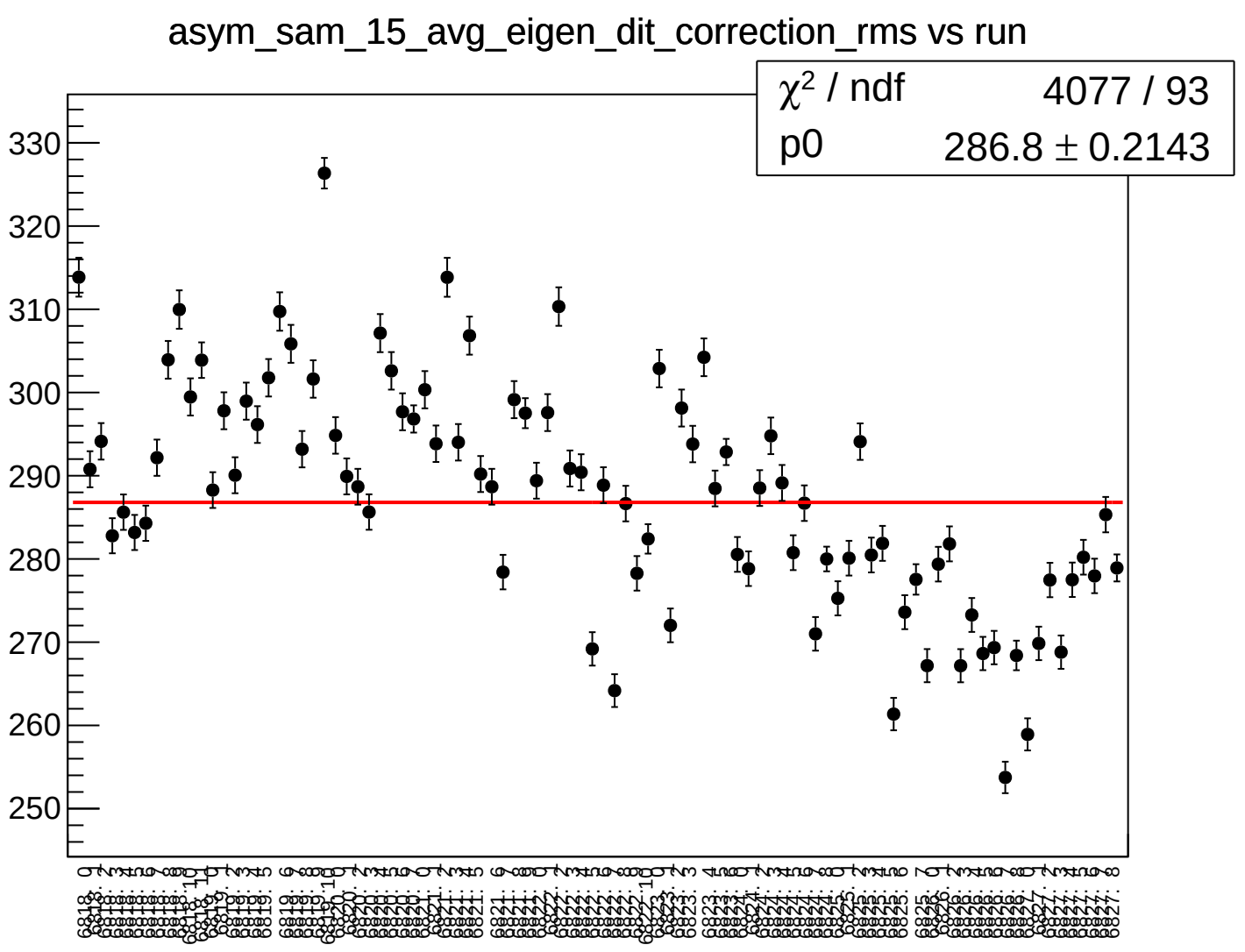

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 4077 / 93
p0 286.8 ± 0.2143
330
320
310
300
290
280
270
260
250

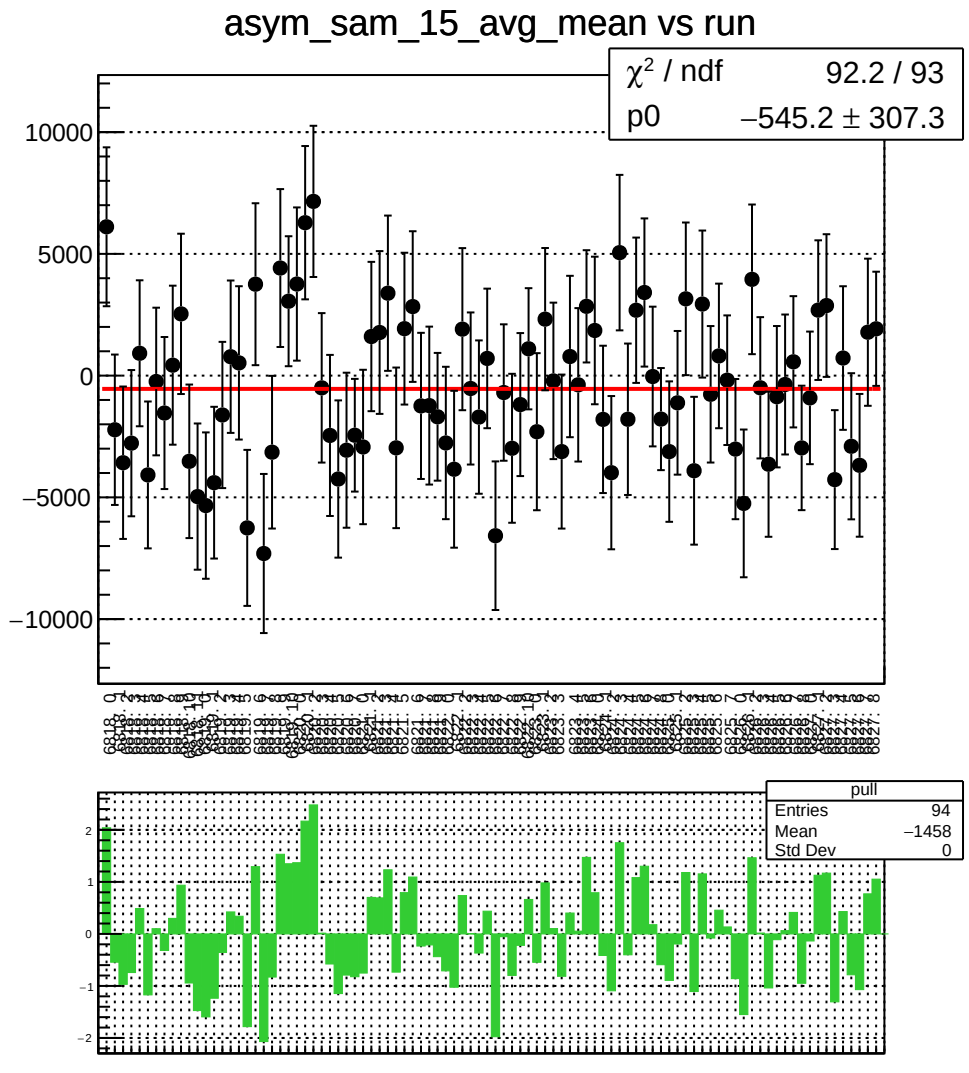

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 81.75 / 93
p0 −32.32 ± 65.5
pull
Entries 94
Mean −117.5
Std Dev 0

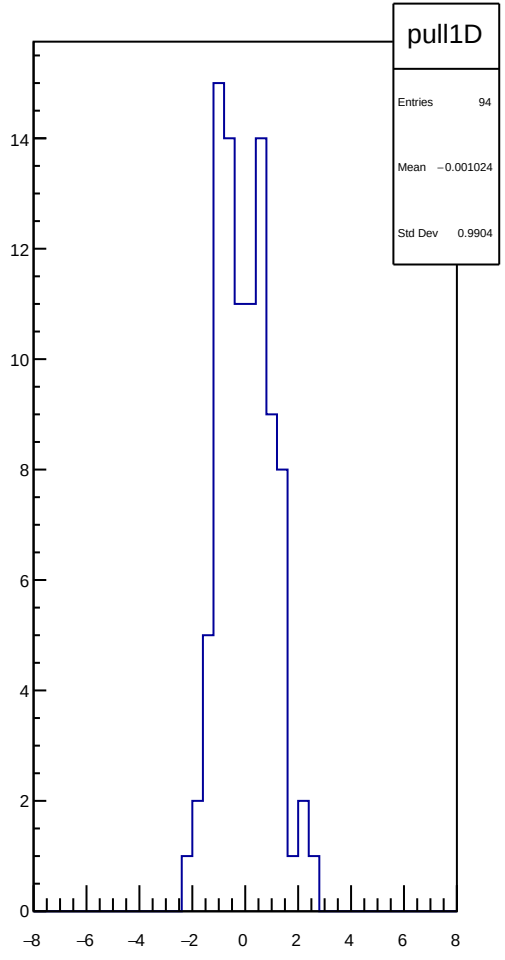

pull1D
Entries 94
Mean −0.007741
Std Dev 0.9326

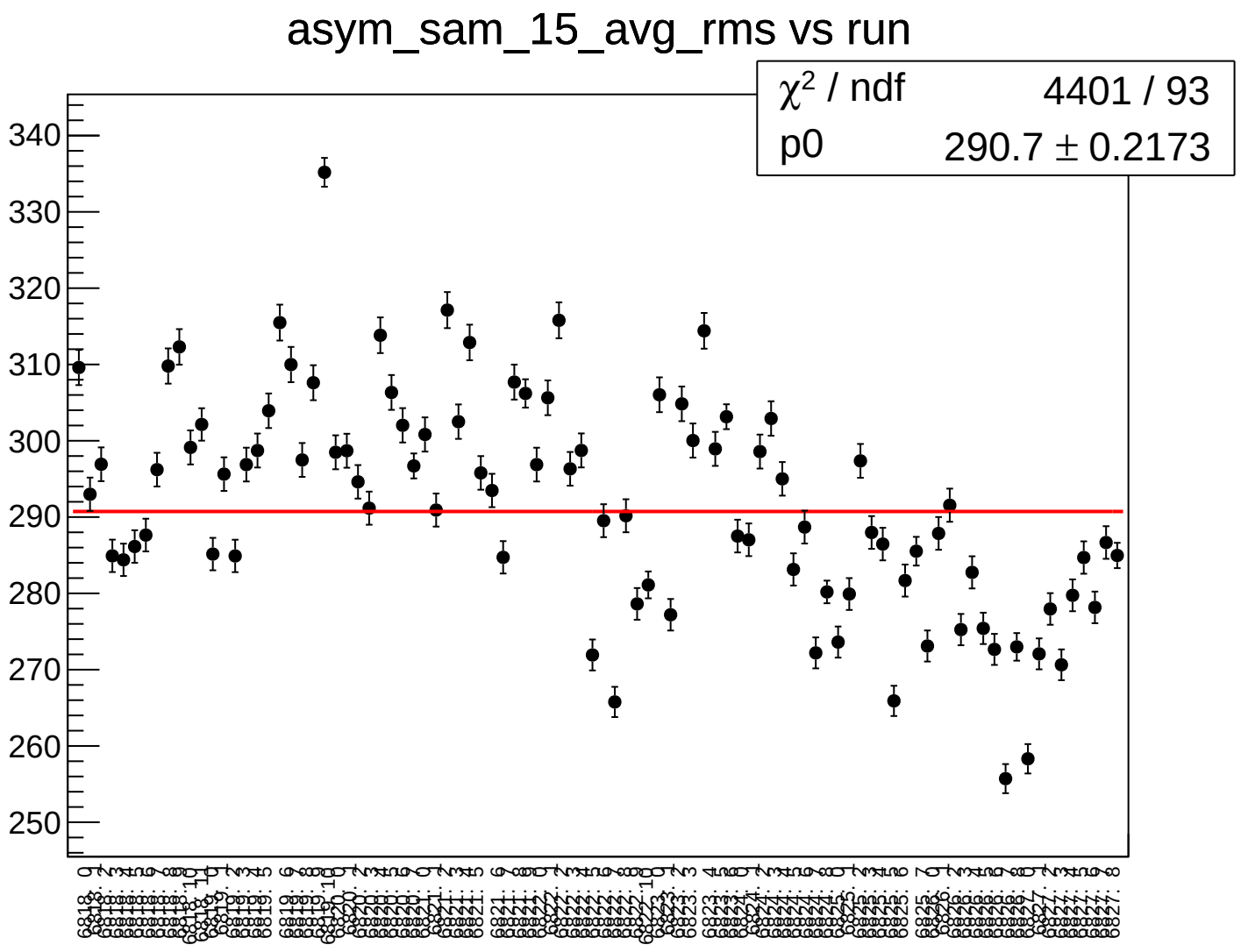

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 411 / 93
p0 62.05 ± 0.04632
65
64
63
62
61
60

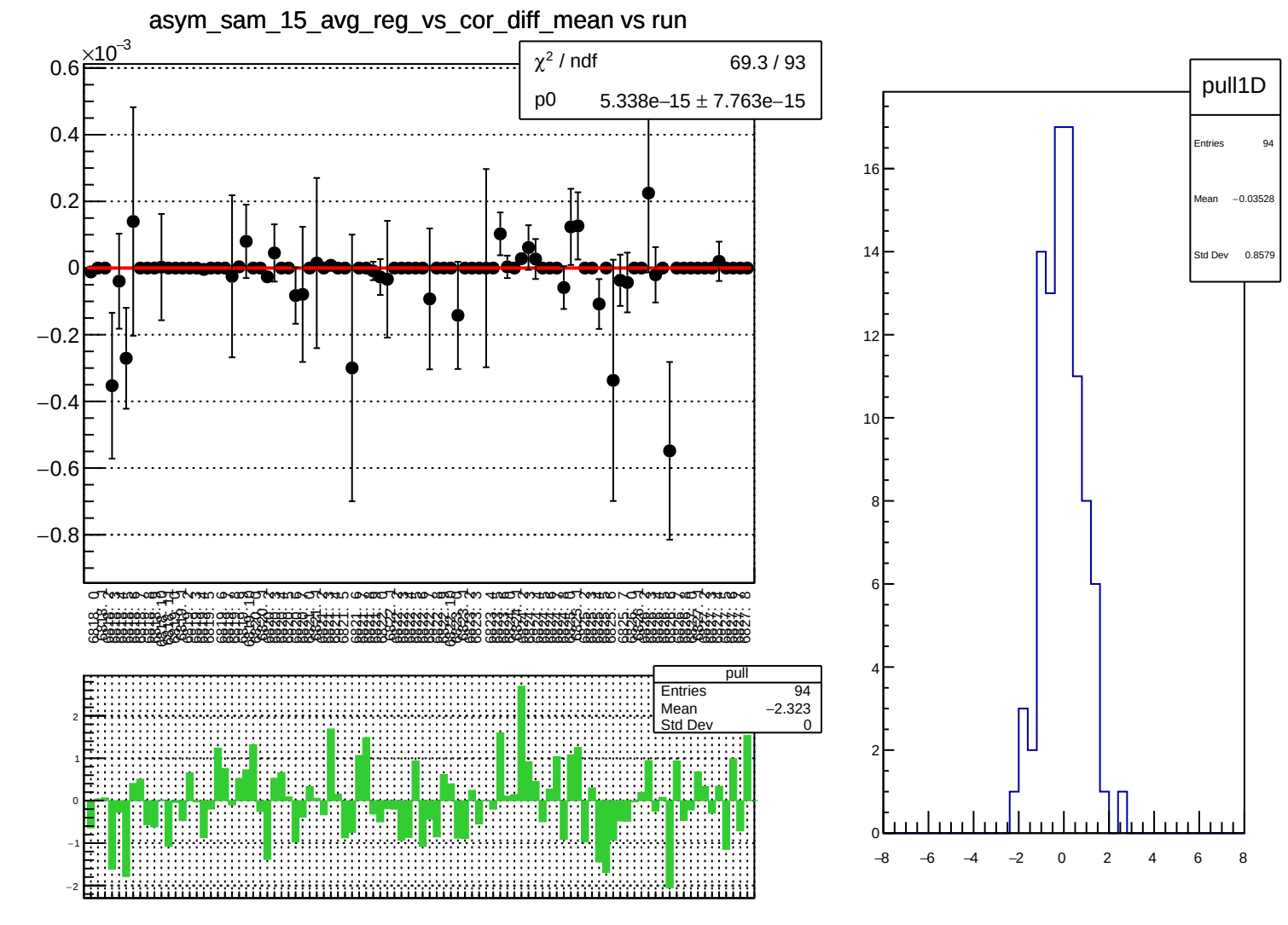

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 100.9 / 93
p0 502.1 ± 303.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −888.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.001318
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

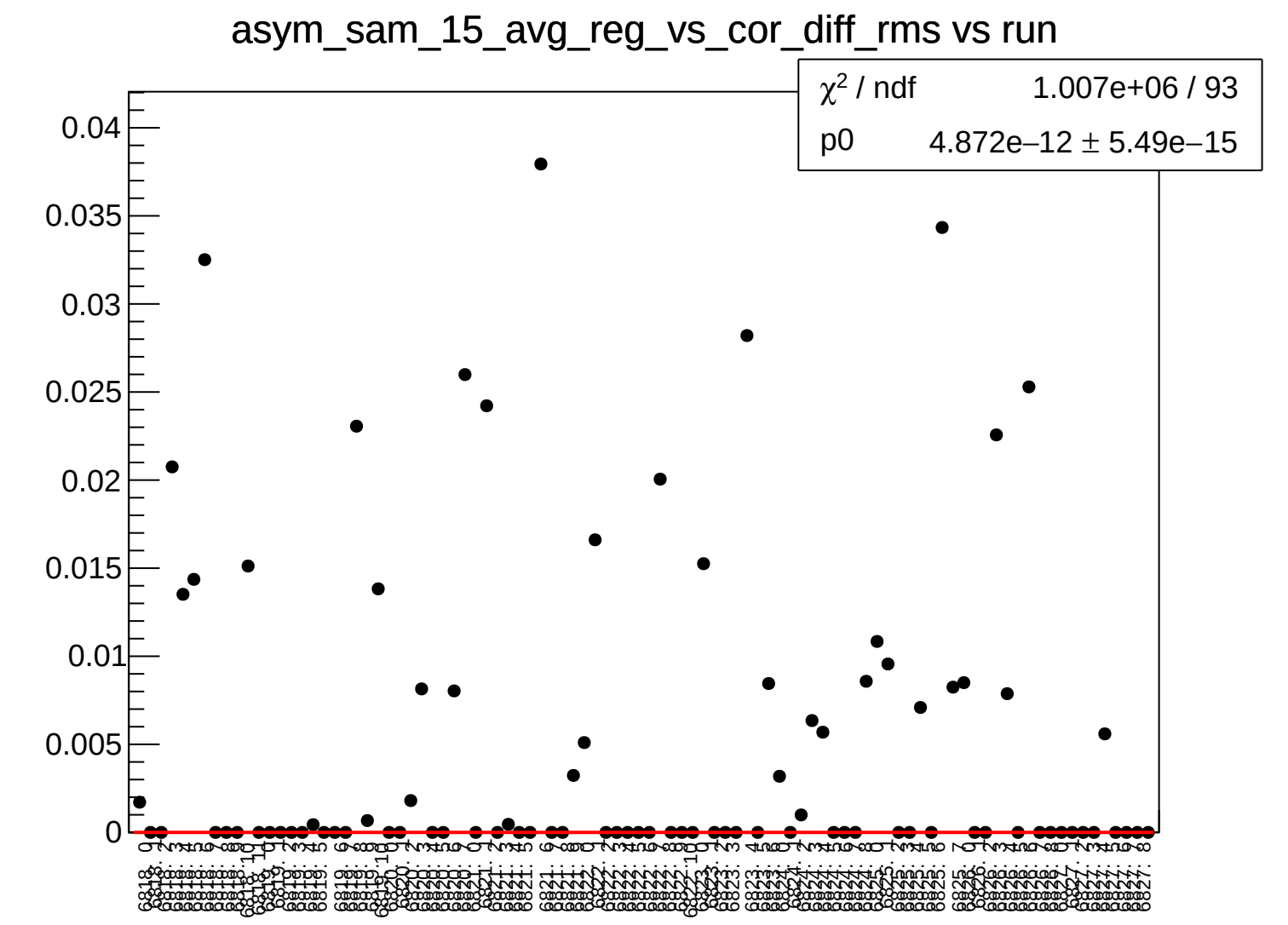

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 4077 / 93
p0 286.8 ± 0.2143
330
320
310
300
290
280
270
260
250

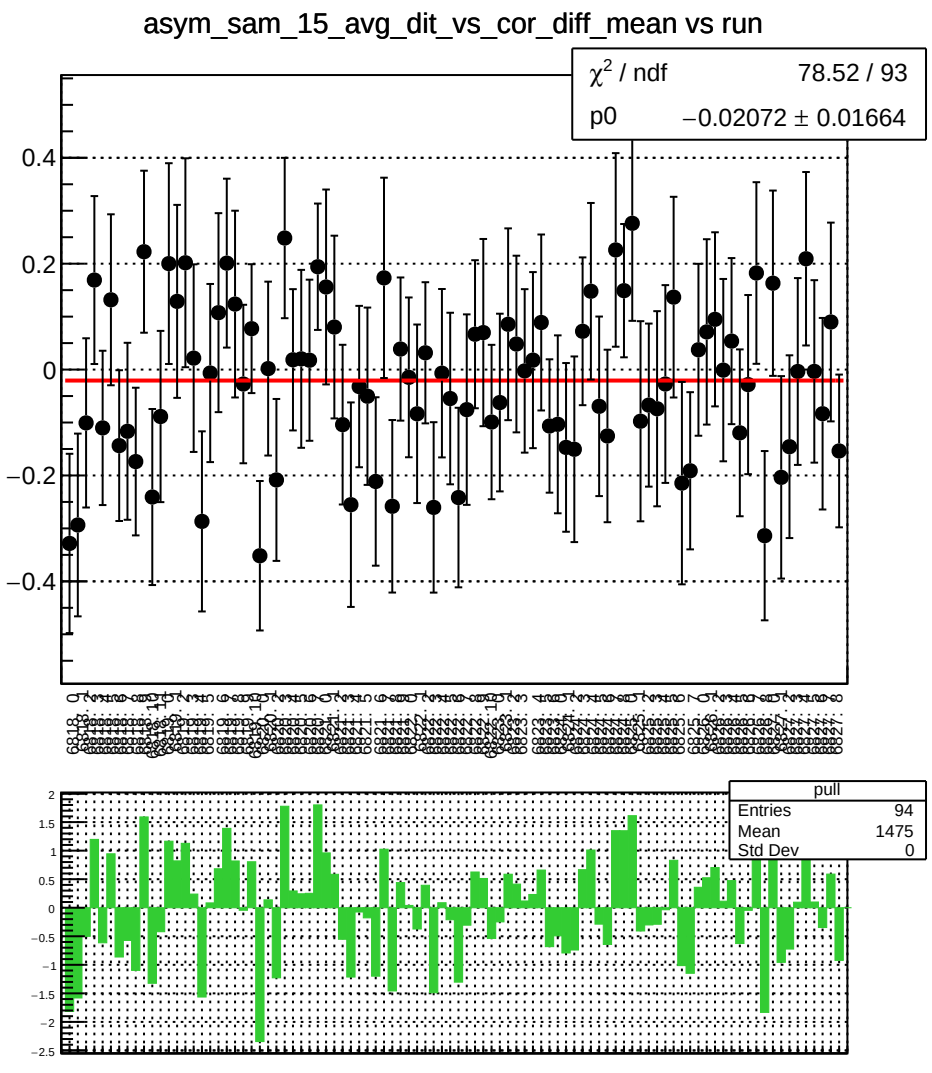

asym_sam_15_avg_mean vs run
χ² / ndf 92.2 / 93
p0 −545.2 ± 307.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −1458
Std Dev 0
2
1
0
−1
−2

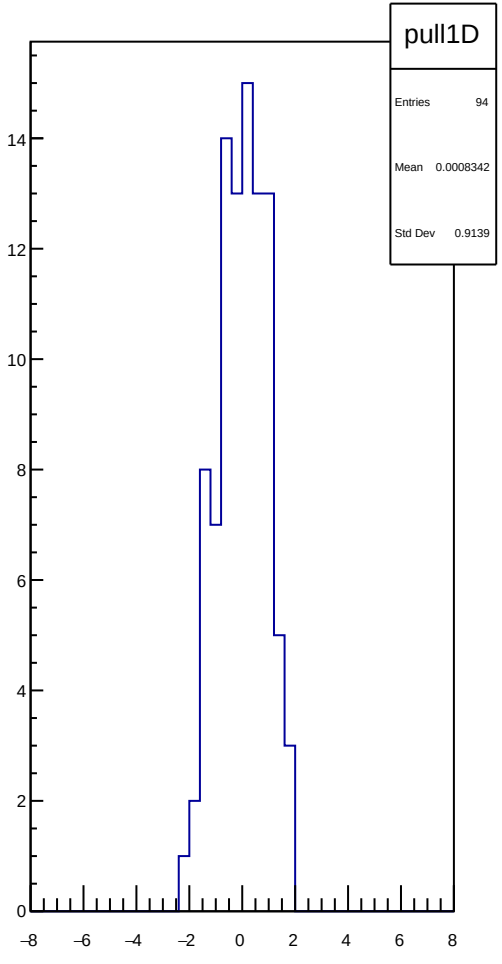

pull1D
Entries 94
Mean −0.001024
Std Dev 0.9904
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

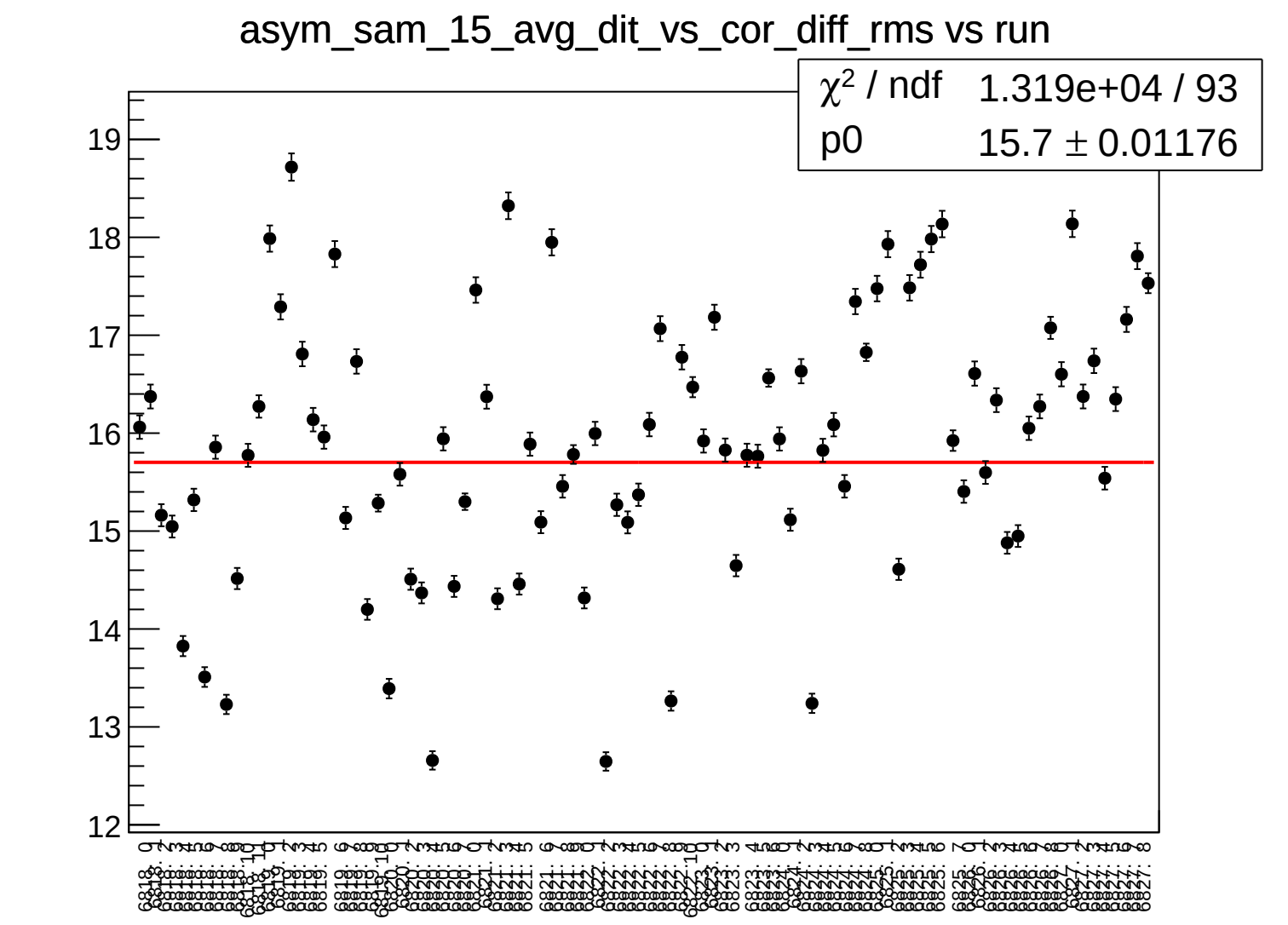

asym_sam_15_avg_rms vs run
χ² / ndf 4401 / 93
p0 290.7 ± 0.2173
340
330
320
310
300
290
280
270
260
250

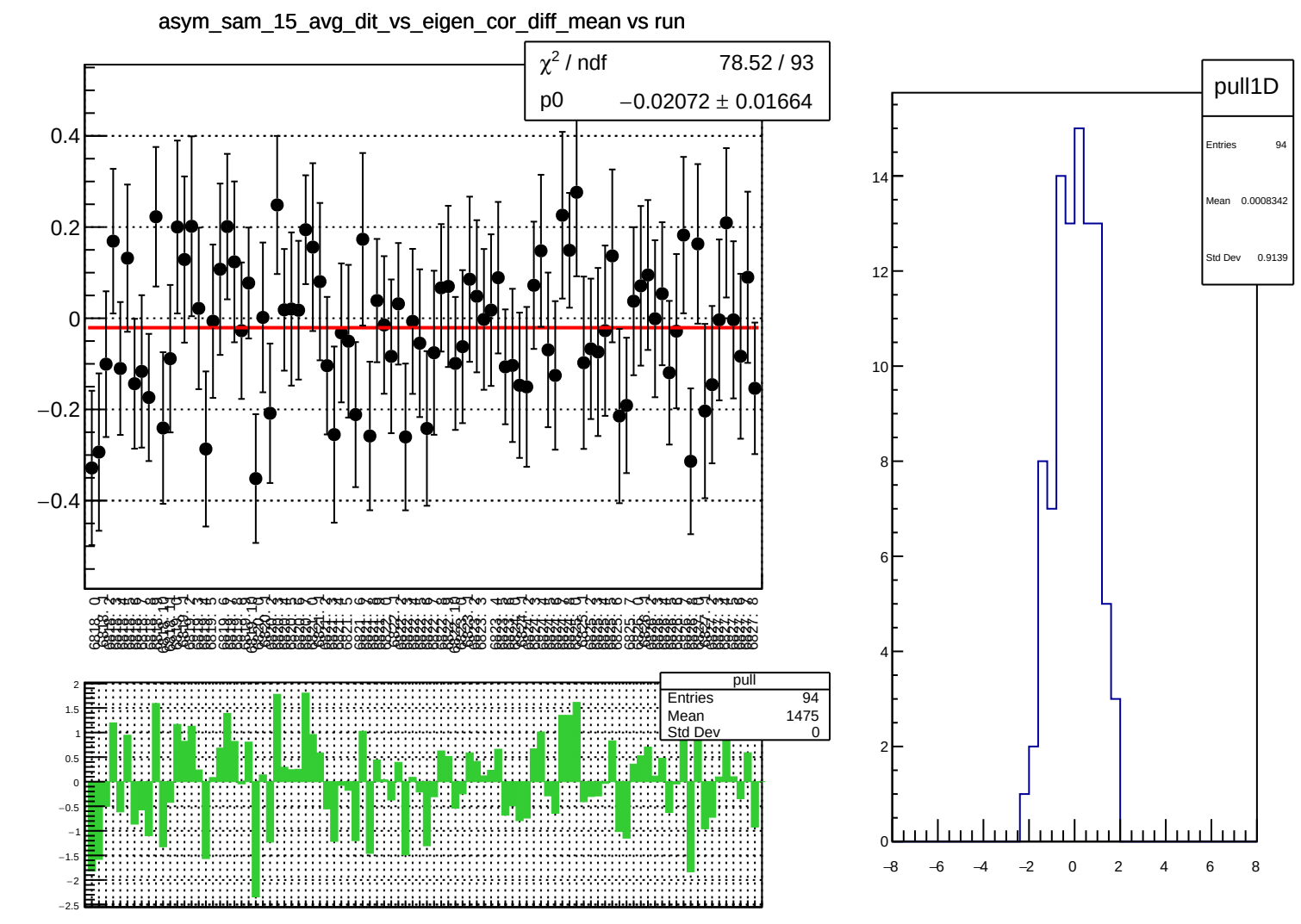

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 69.3 / 93
p0 5.338e−15 ± 7.763e−15
pull
Entries 94
Mean −2.323
Std Dev 0
pull1D
Entries 94
Mean −0.03528
Std Dev 0.8579

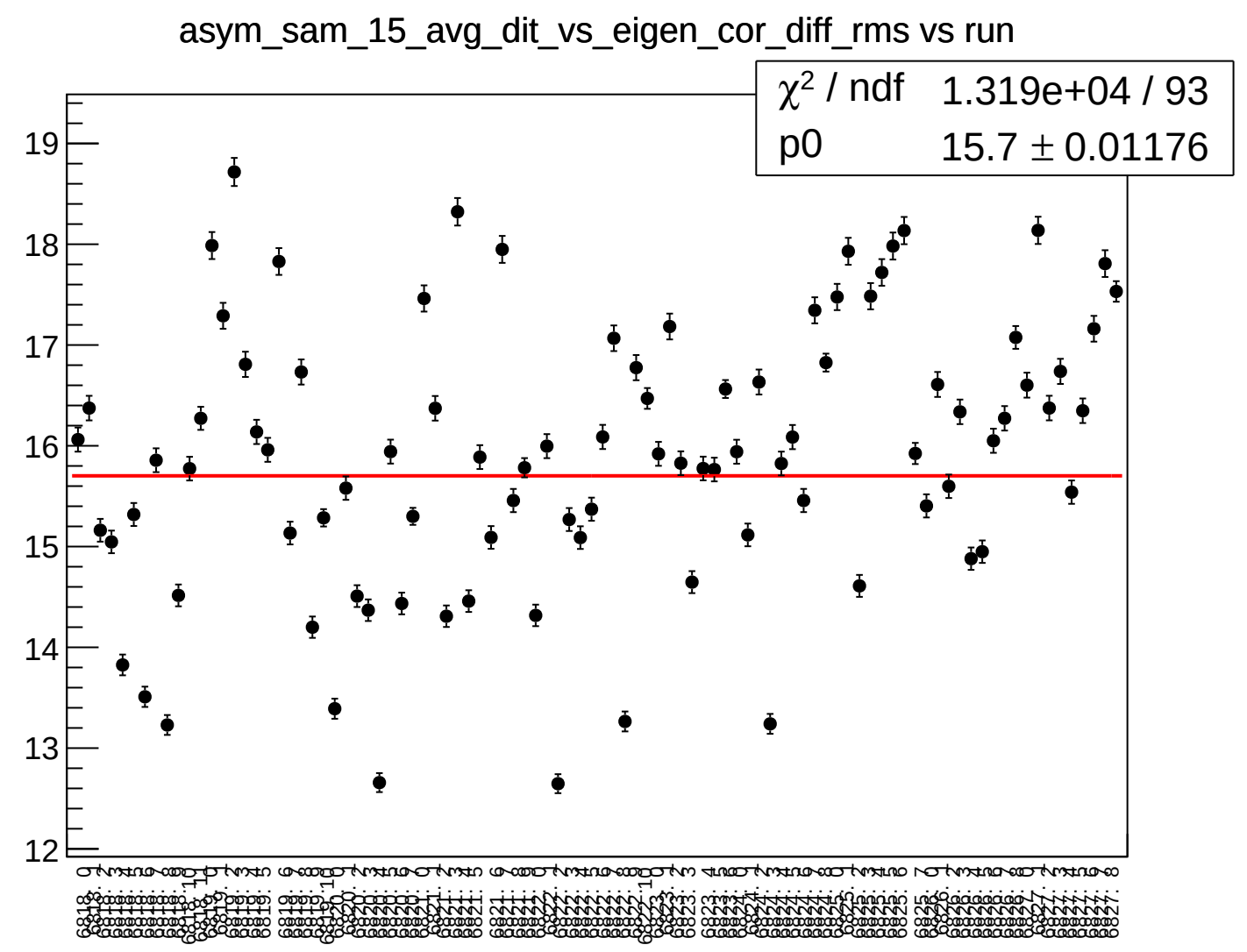

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.007e+06 / 93
p0 4.872e−12 ± 5.49e−15
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

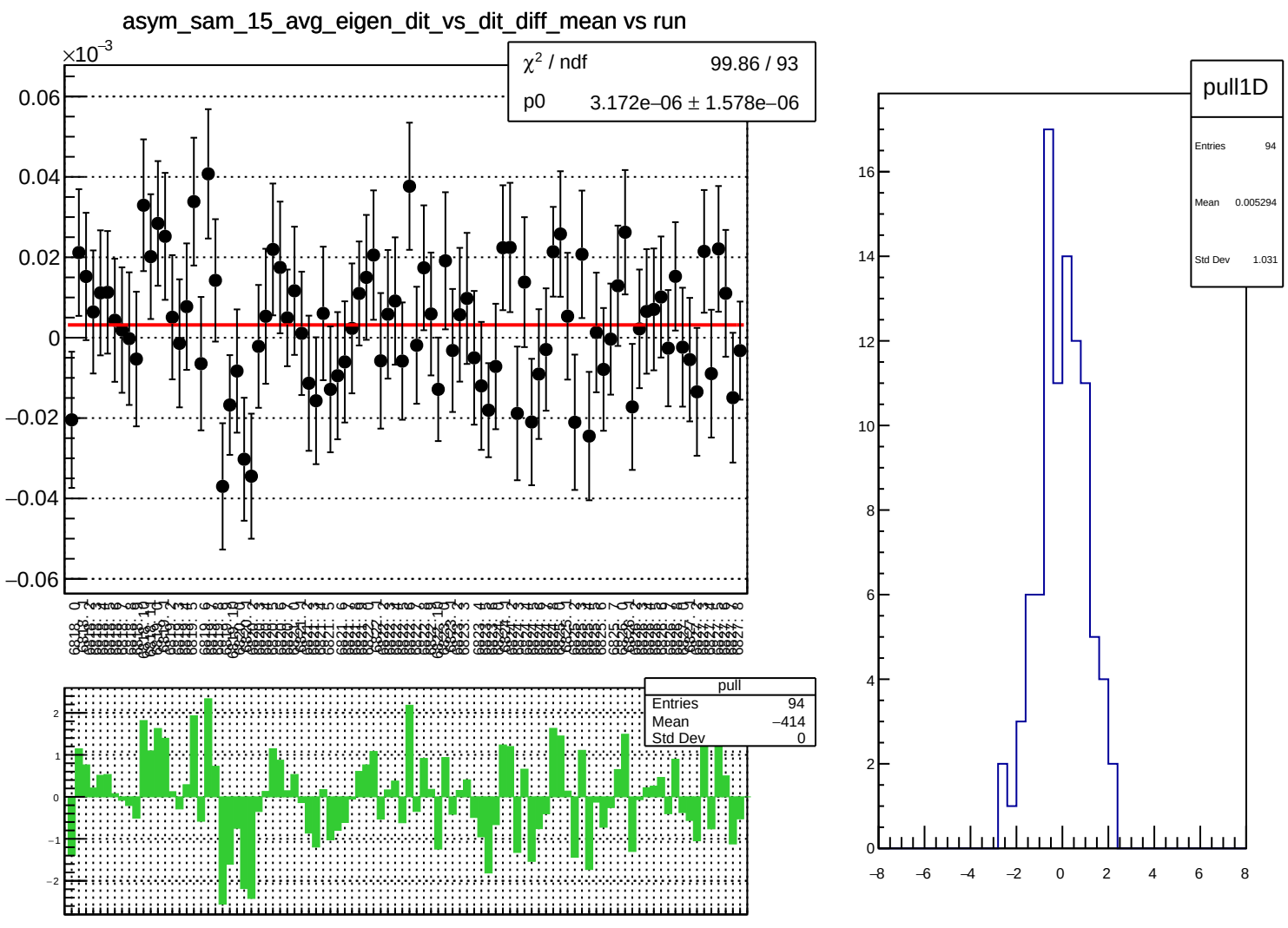

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.52 / 93
p0 −0.02072 ± 0.01664
pull
Entries 94
Mean 1475
Std Dev 0

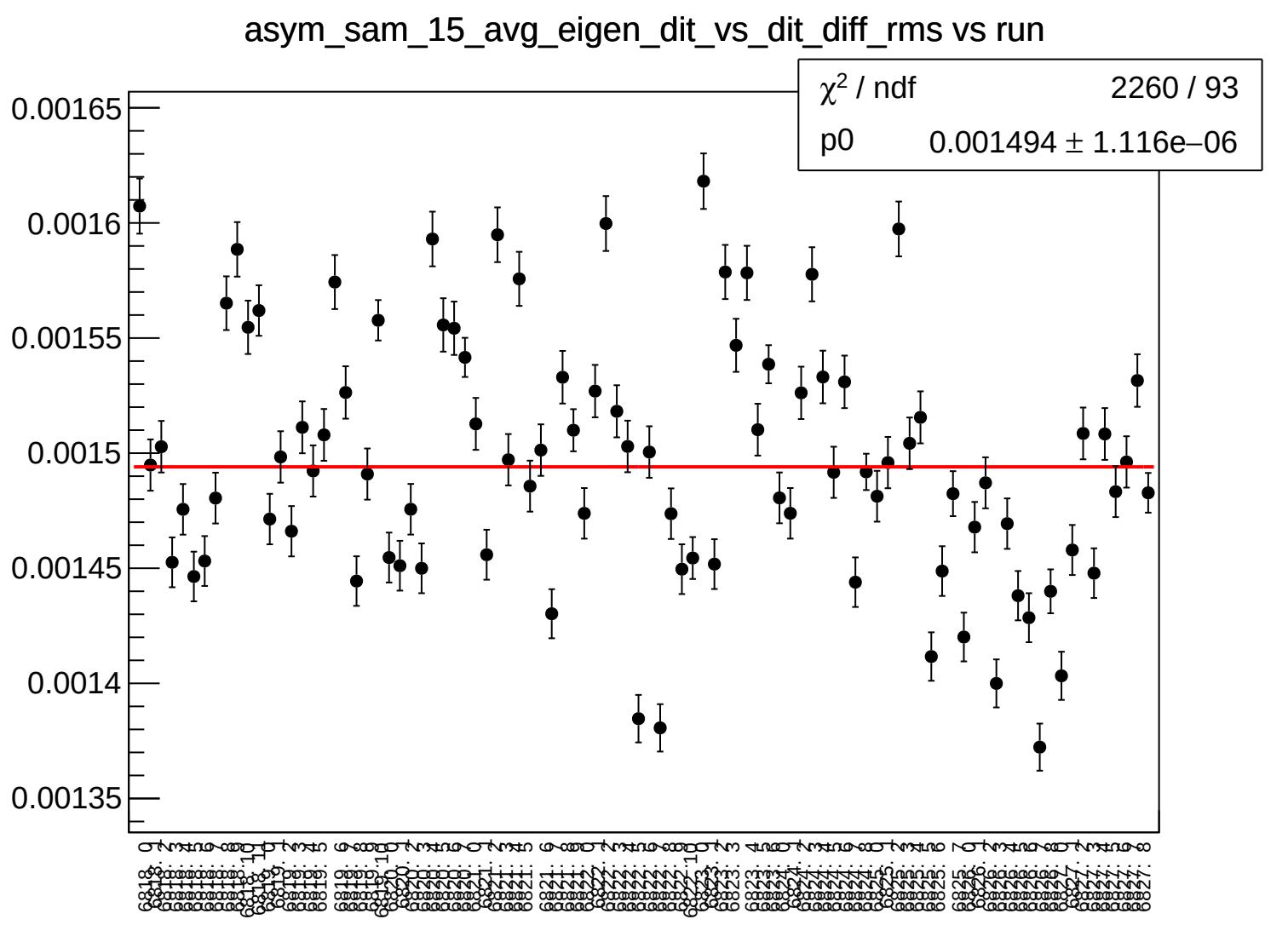

pull1D
Entries 94
Mean 0.0008342
Std Dev 0.9139

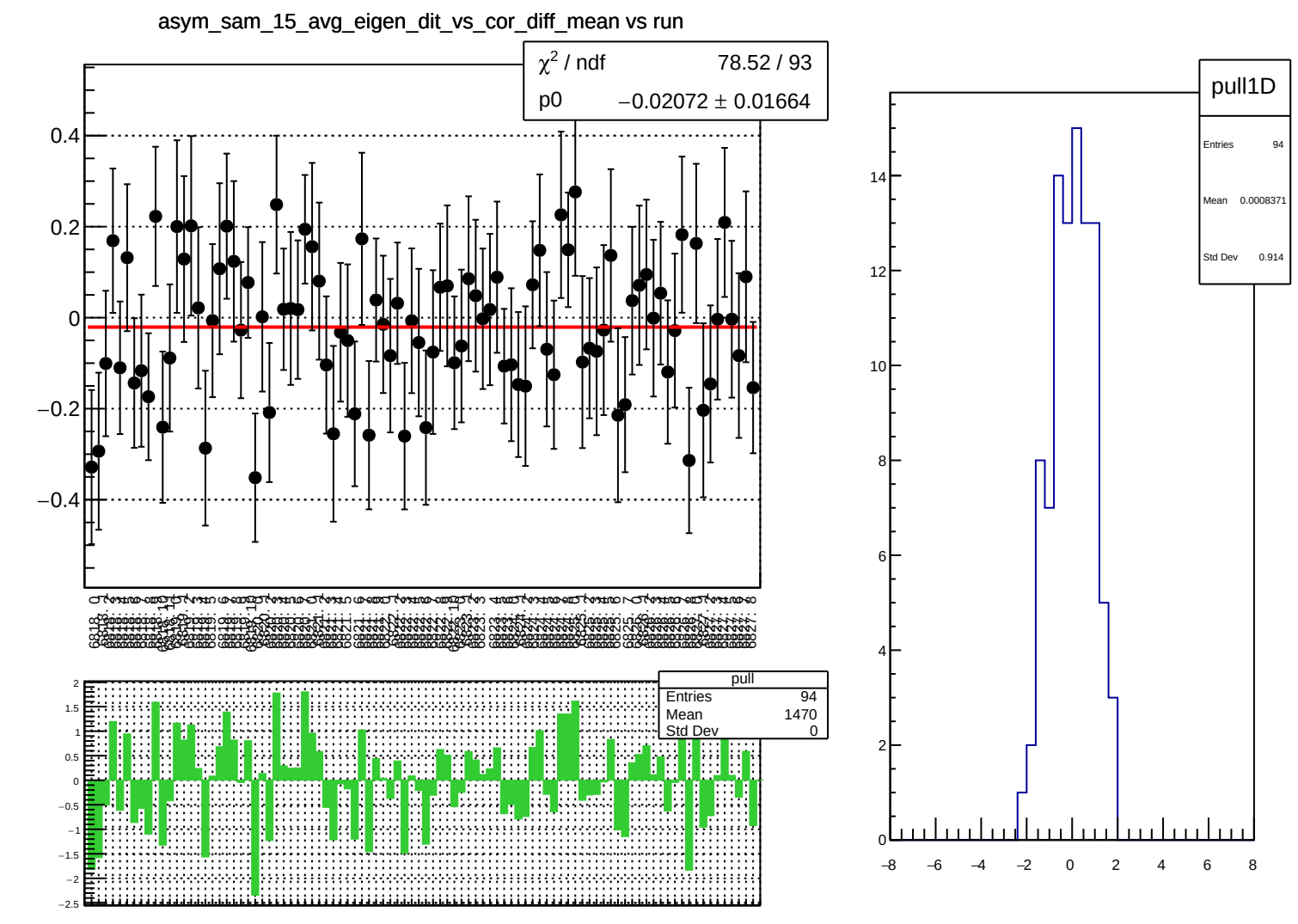

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 93
p0 15.7 ± 0.01176
19
18
17
16
15
14
13
12

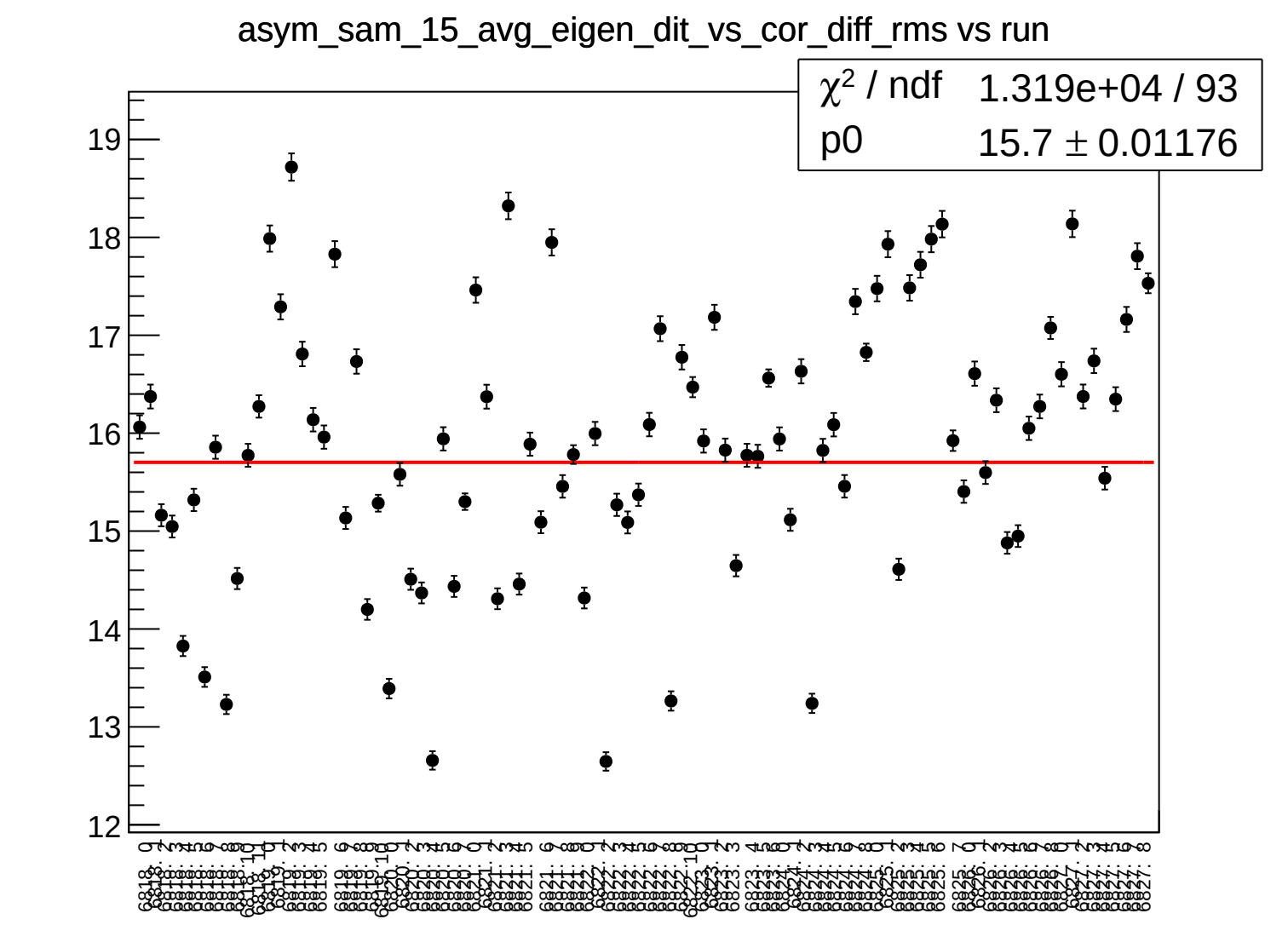

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.52 / 93
p0 −0.02072 ± 0.01664
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 1475
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.0008342
Std Dev 0.9139
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

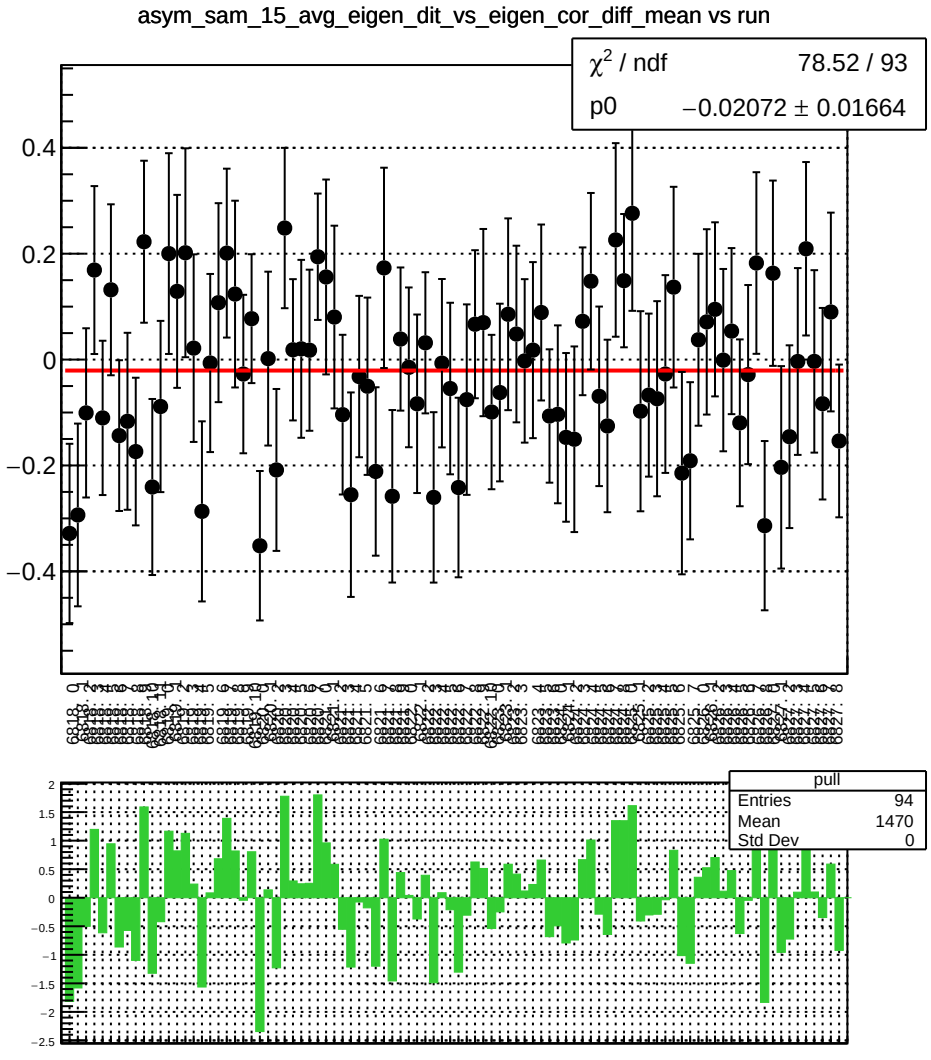

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 93
p0 15.7 ± 0.01176
19
18
17
16
15
14
13
12

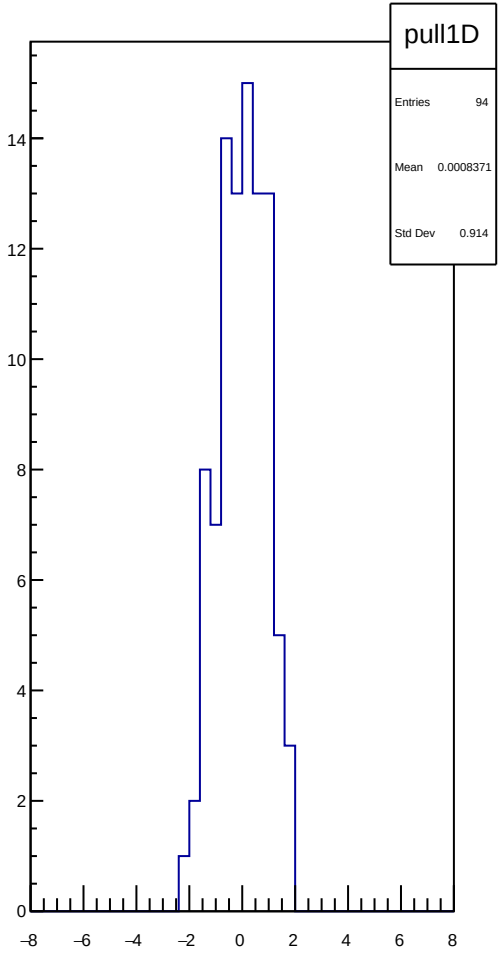

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.86 / 93
p0 3.172e−06 ± 1.578e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −414
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005294
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

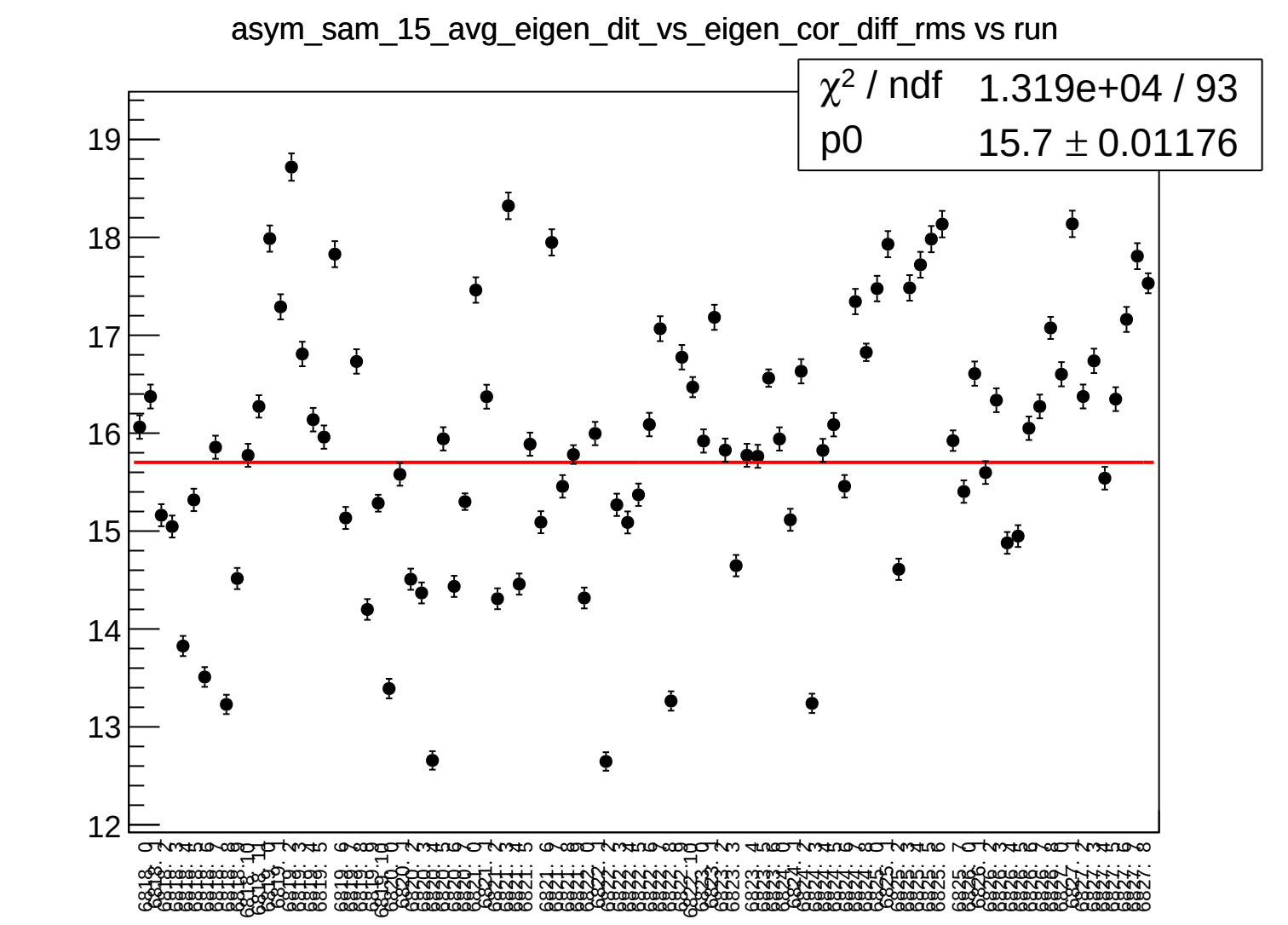

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2260 / 93
p0 0.001494 ± 1.116e−06
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

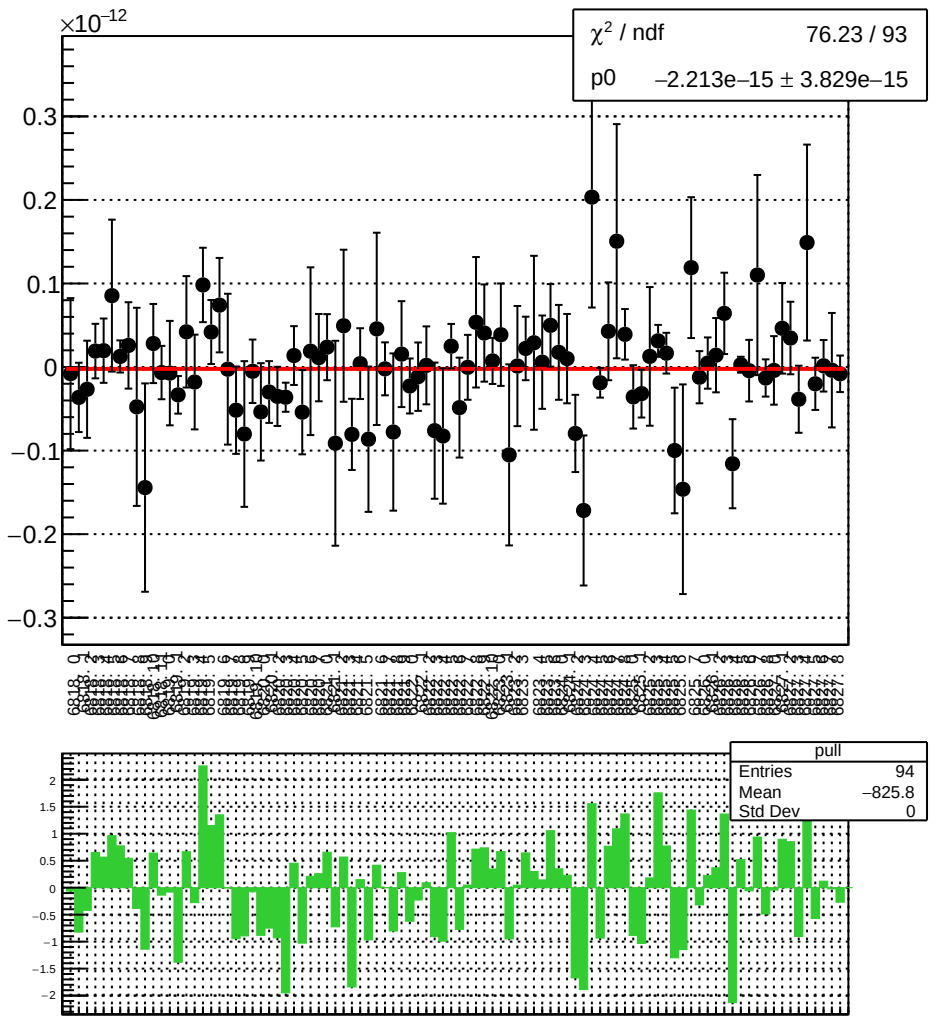

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.52 / 93
p0 −0.02072 ± 0.01664
pull
Entries 94
Mean 1470
Std Dev 0
pull1D
Entries 94
Mean 0.0008371
Std Dev 0.914

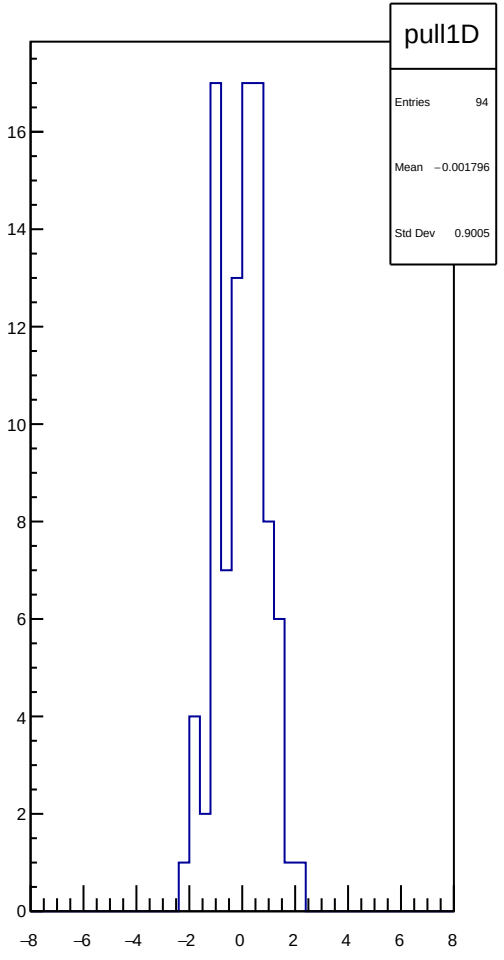

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 93
p0 15.7 ± 0.01176
19
18
17
16
15
14
13
12

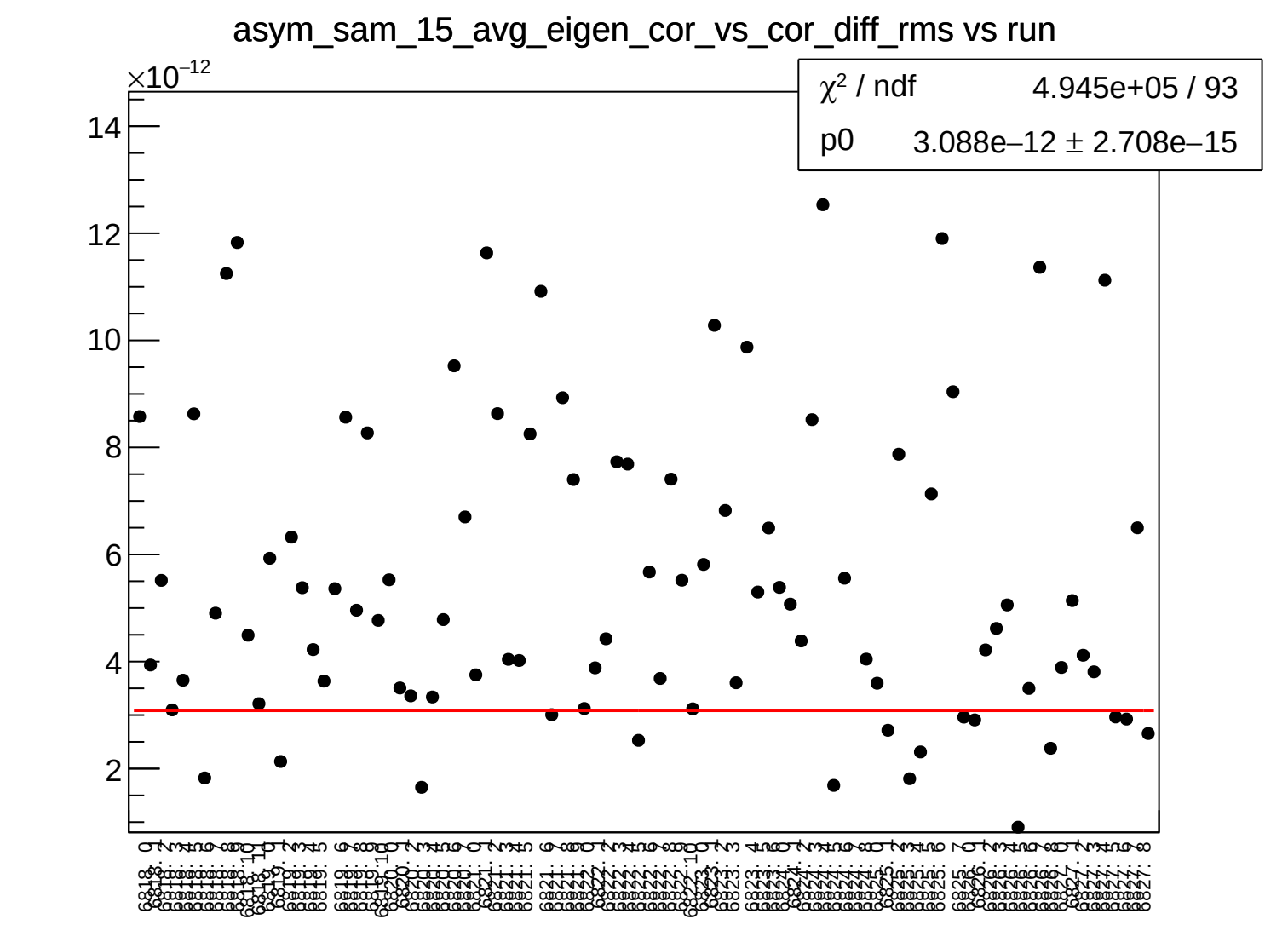

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.52 / 93
p0 −0.02072 ± 0.01664
pull
Entries 94
Mean 1470
Std Dev 0

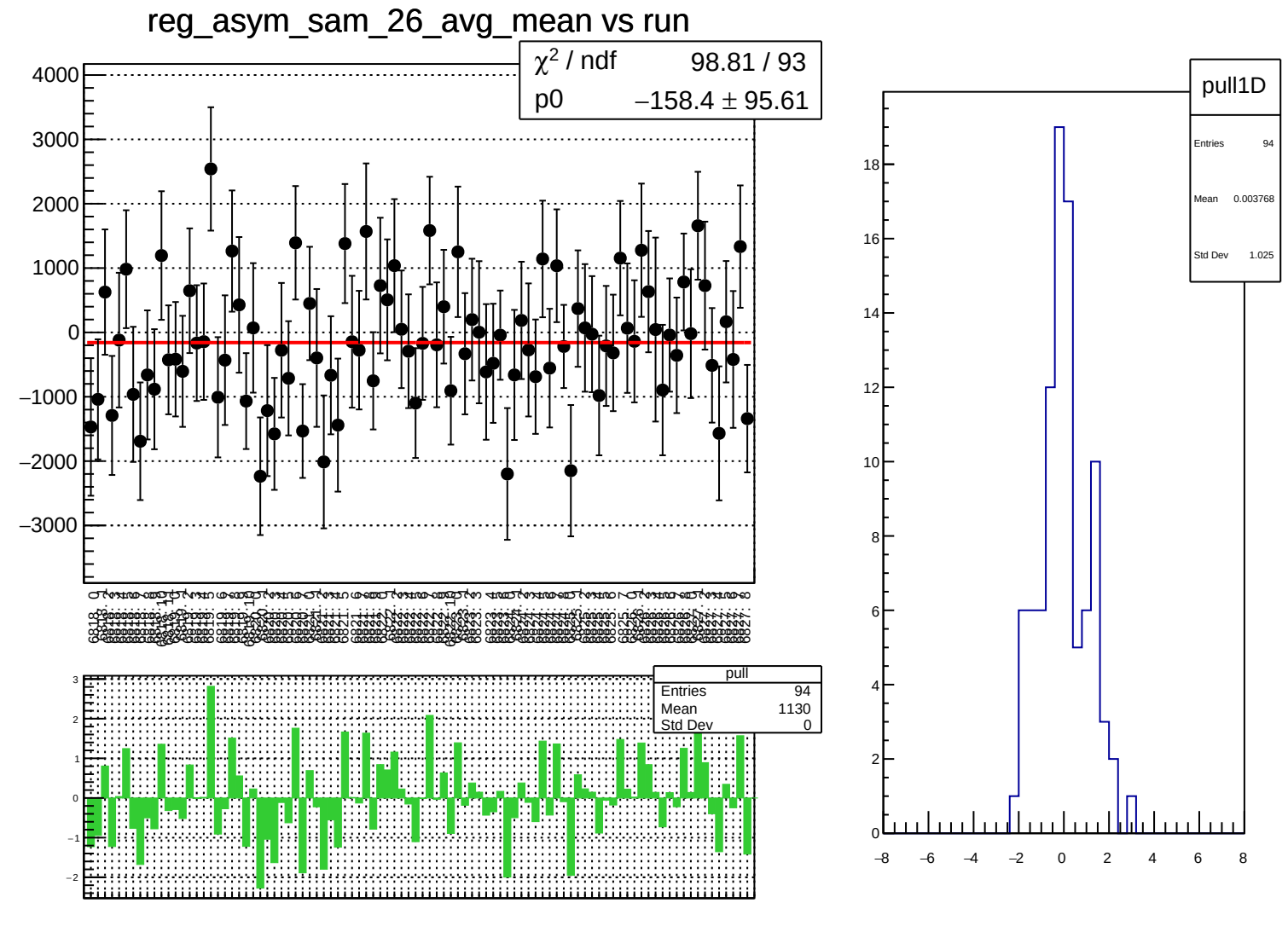

pull1D
Entries 94
Mean 0.0008371
Std Dev 0.914

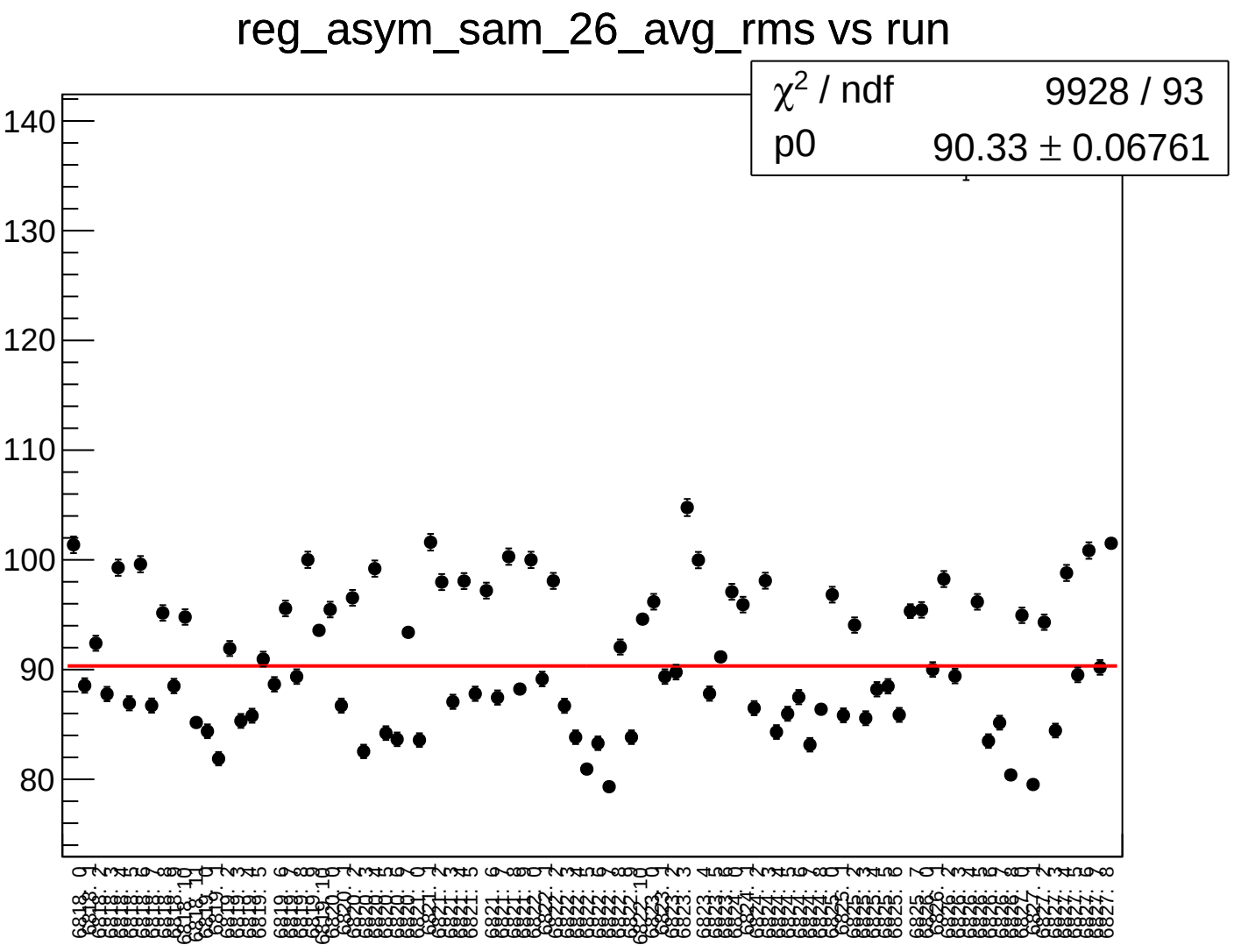

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 93
p0 15.7 ± 0.01176
19
18
17
16
15
14
13
12

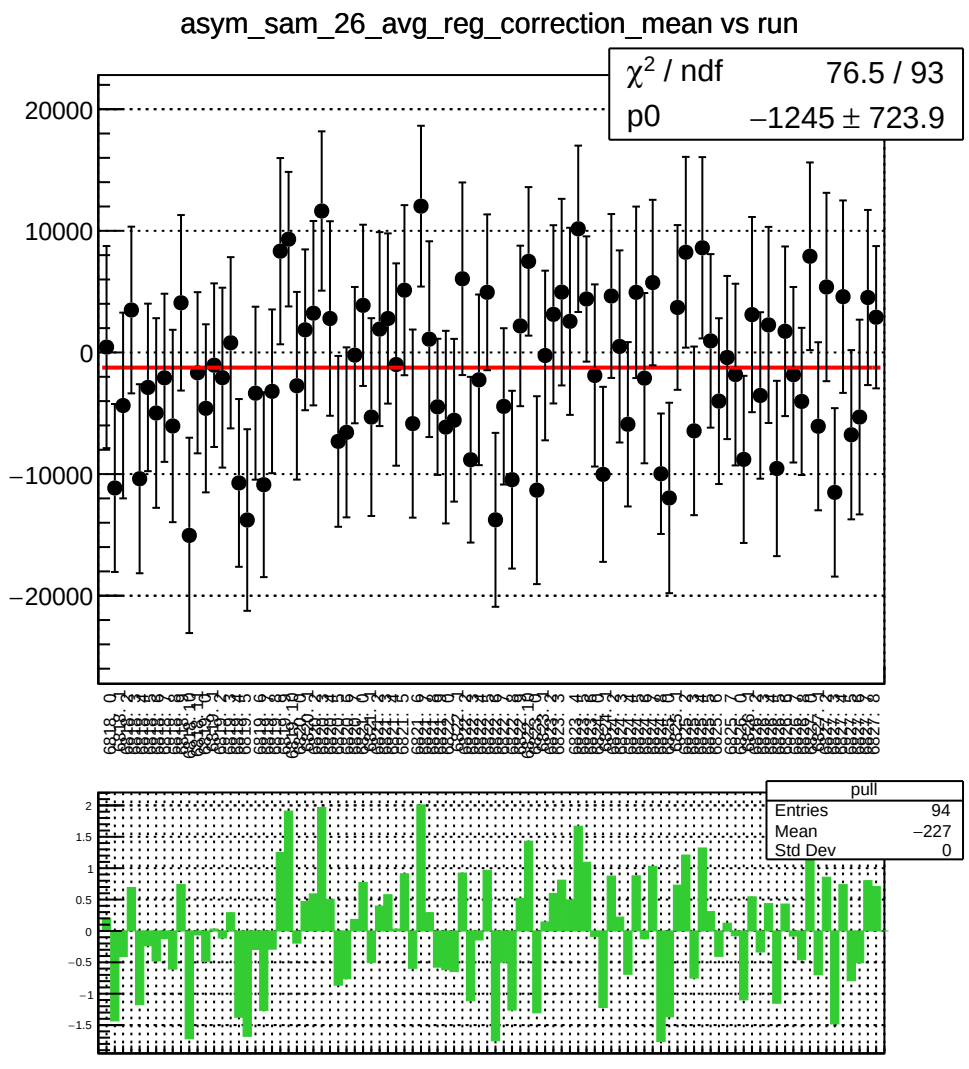

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.23 / 93
p0 −2.213e−15 ± 3.829e−15
pull
Entries 94
Mean −825.8
Std Dev 0

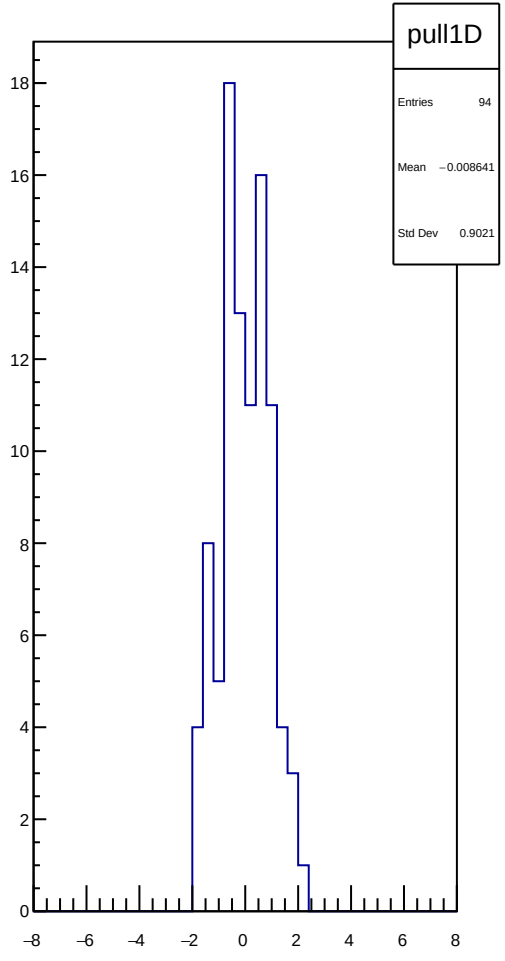

pull1D
Entries 94
Mean −0.001796
Std Dev 0.9005

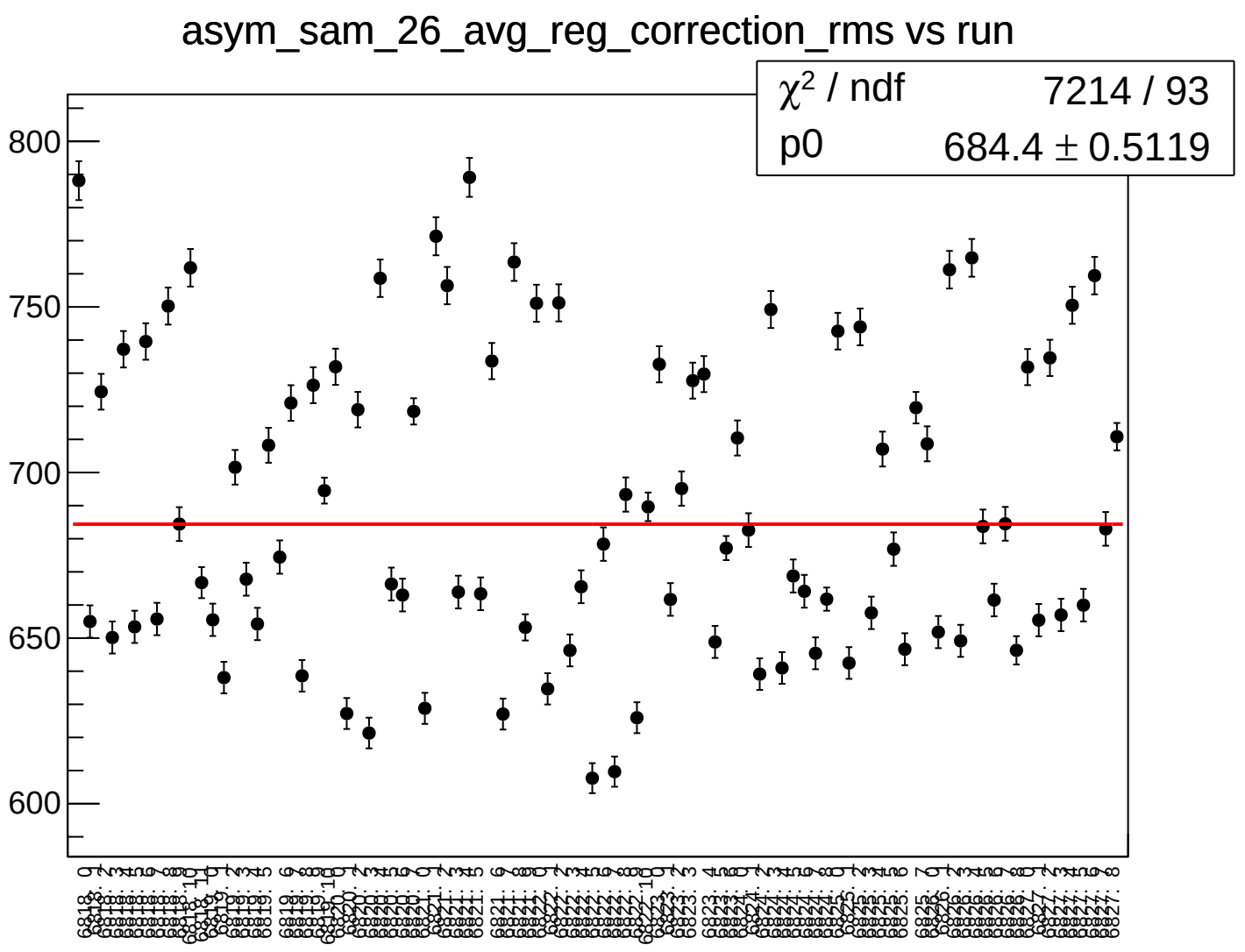

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.945e+05 / 93
p0 3.088e−12 ± 2.708e−15
14
12
10
8
6
4
2

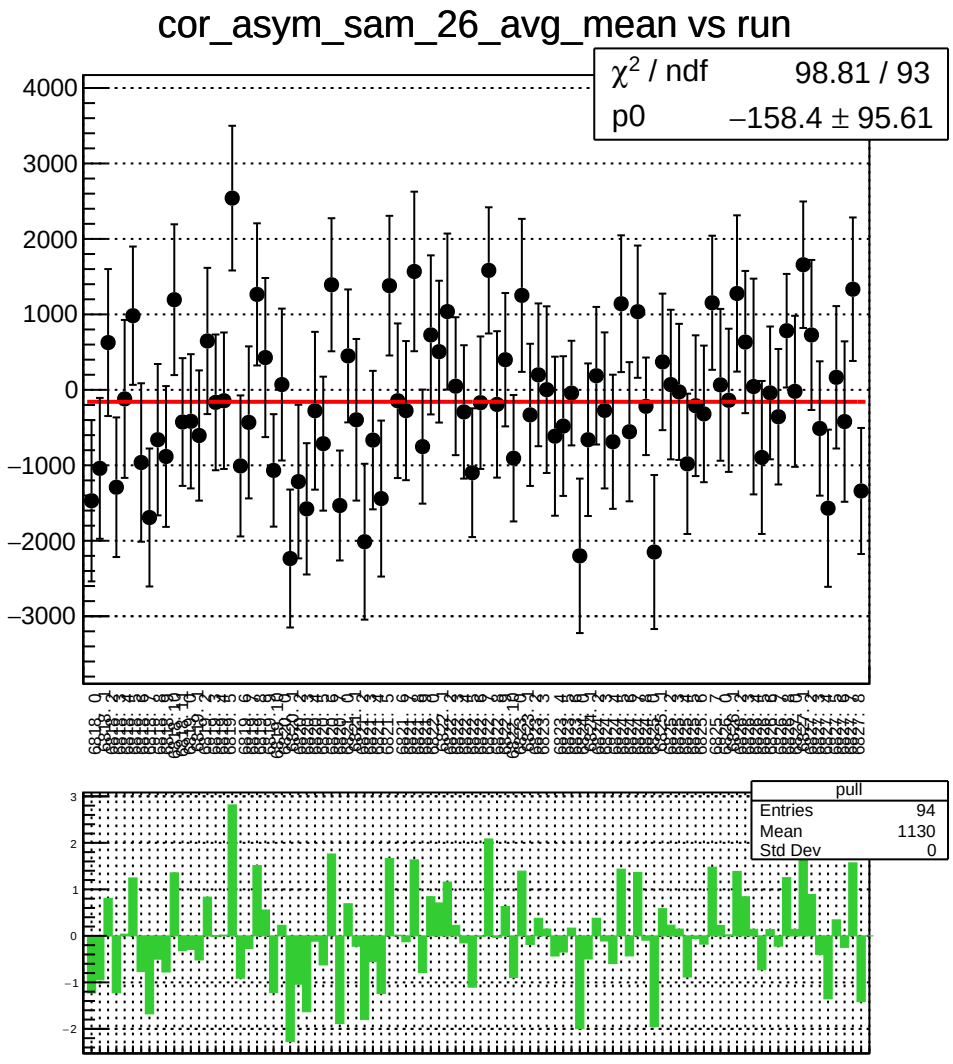

reg_asym_sam_26_avg_mean vs run
χ² / ndf 98.81 / 93
p0 −158.4 ± 95.61
pull
Entries 94
Mean 1130
Std Dev 0
pull1D
Entries 94
Mean 0.003768
Std Dev 1.025

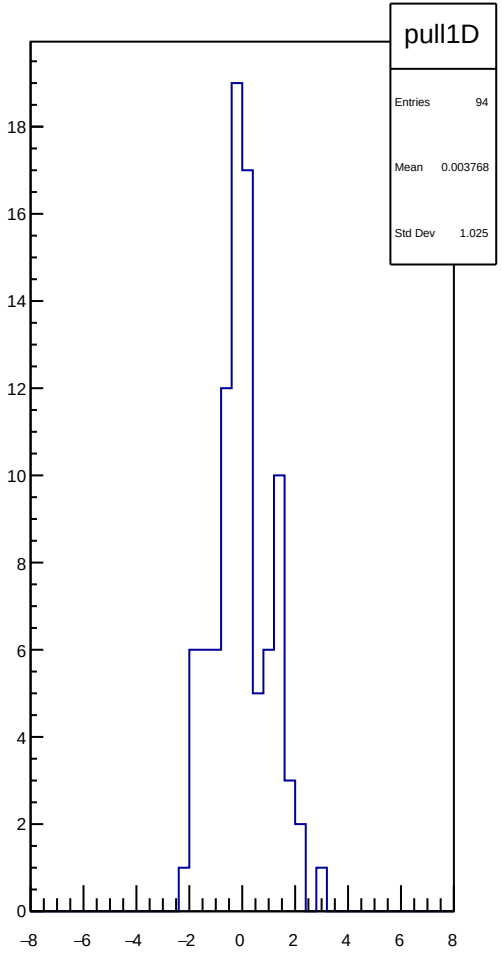

reg_asym_sam_26_avg_rms vs run
χ² / ndf 9928 / 93
p0 90.33 ± 0.06761
140
130
120
110
100
90
80

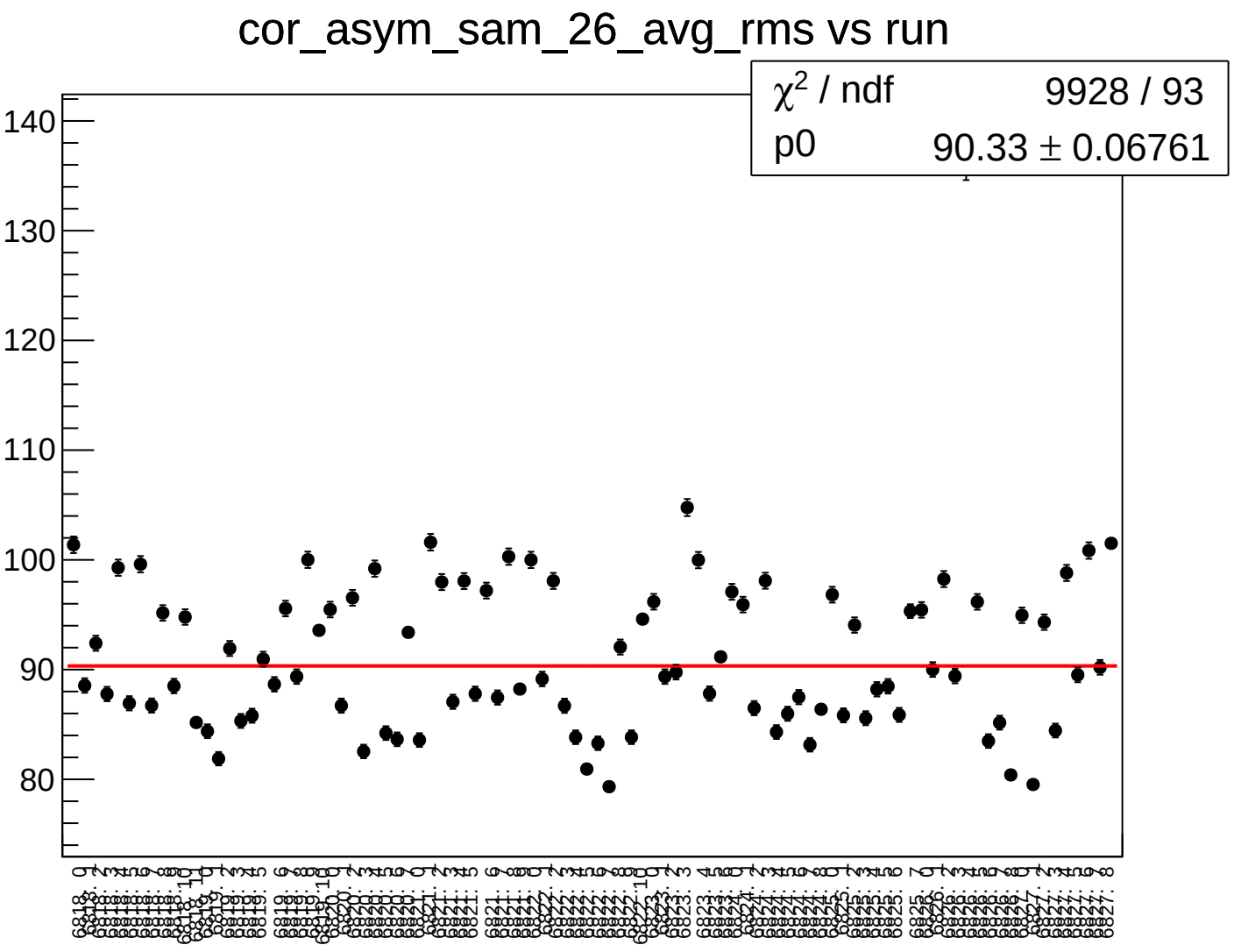

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 76.5 / 93
p0 −1245 ± 723.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −227
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

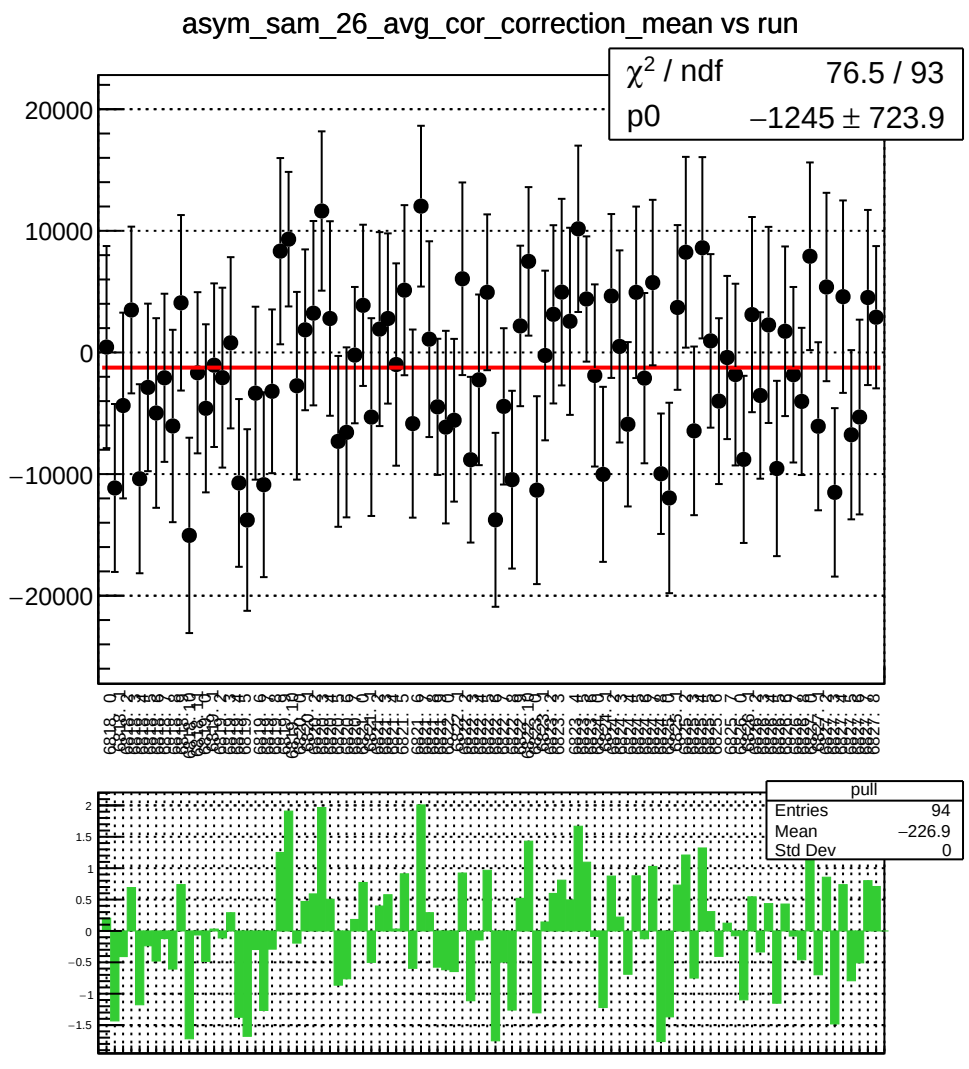

pull1D
Entries 94
Mean −0.008641
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

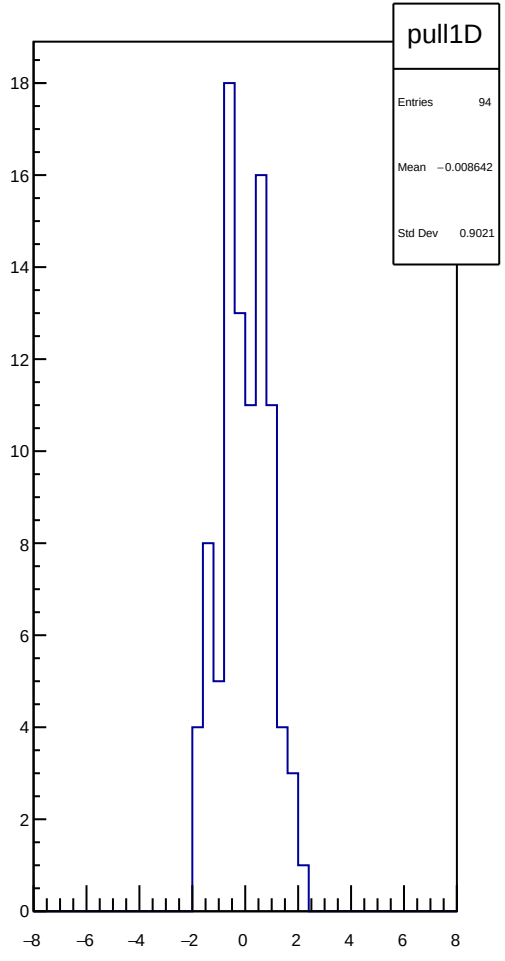

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 7214 / 93
p0 684.4 ± 0.5119
800
750
700
650
600

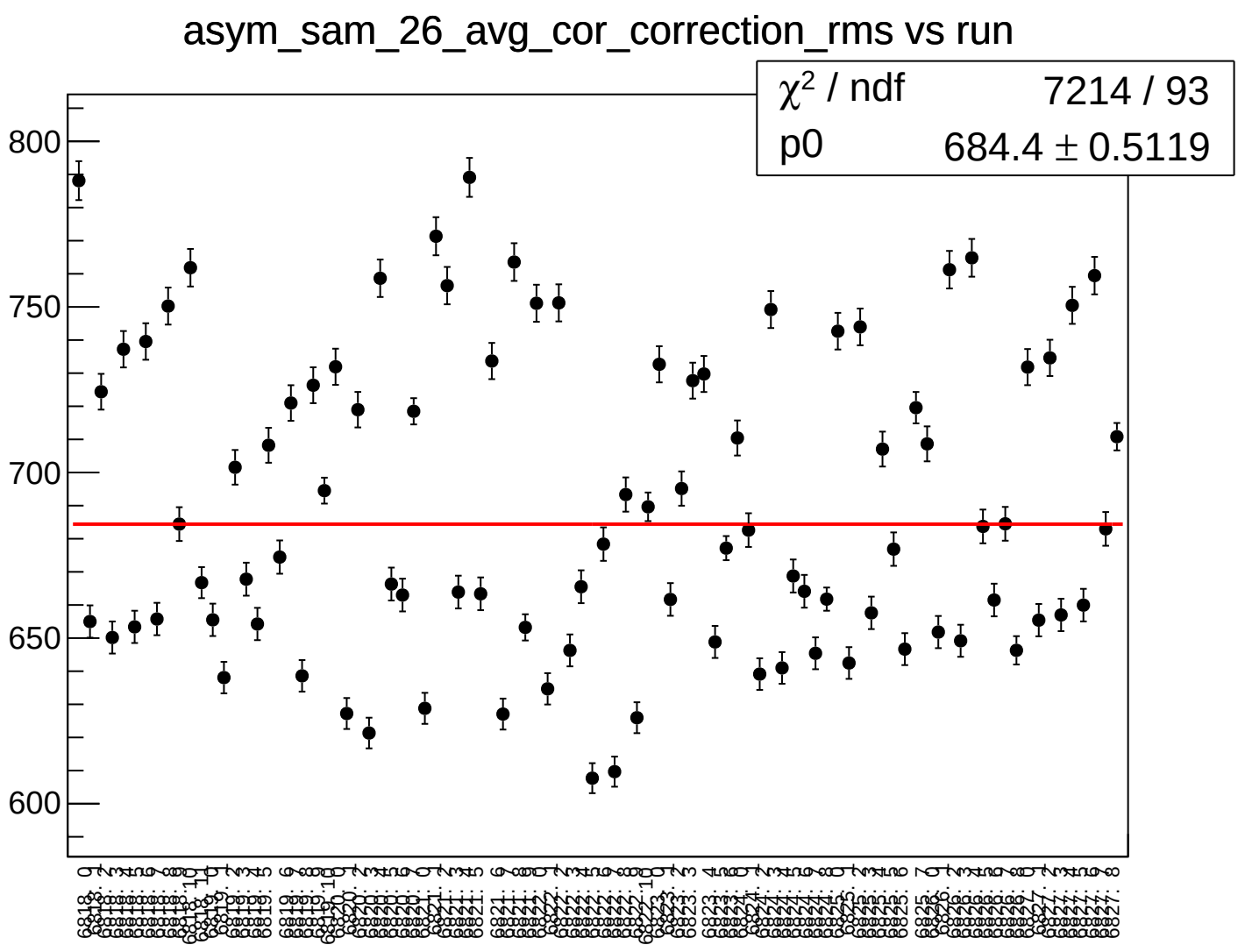

cor_asym_sam_26_avg_mean vs run
χ² / ndf 98.81 / 93
p0 −158.4 ± 95.61
pull
Entries 94
Mean 1130
Std Dev 0

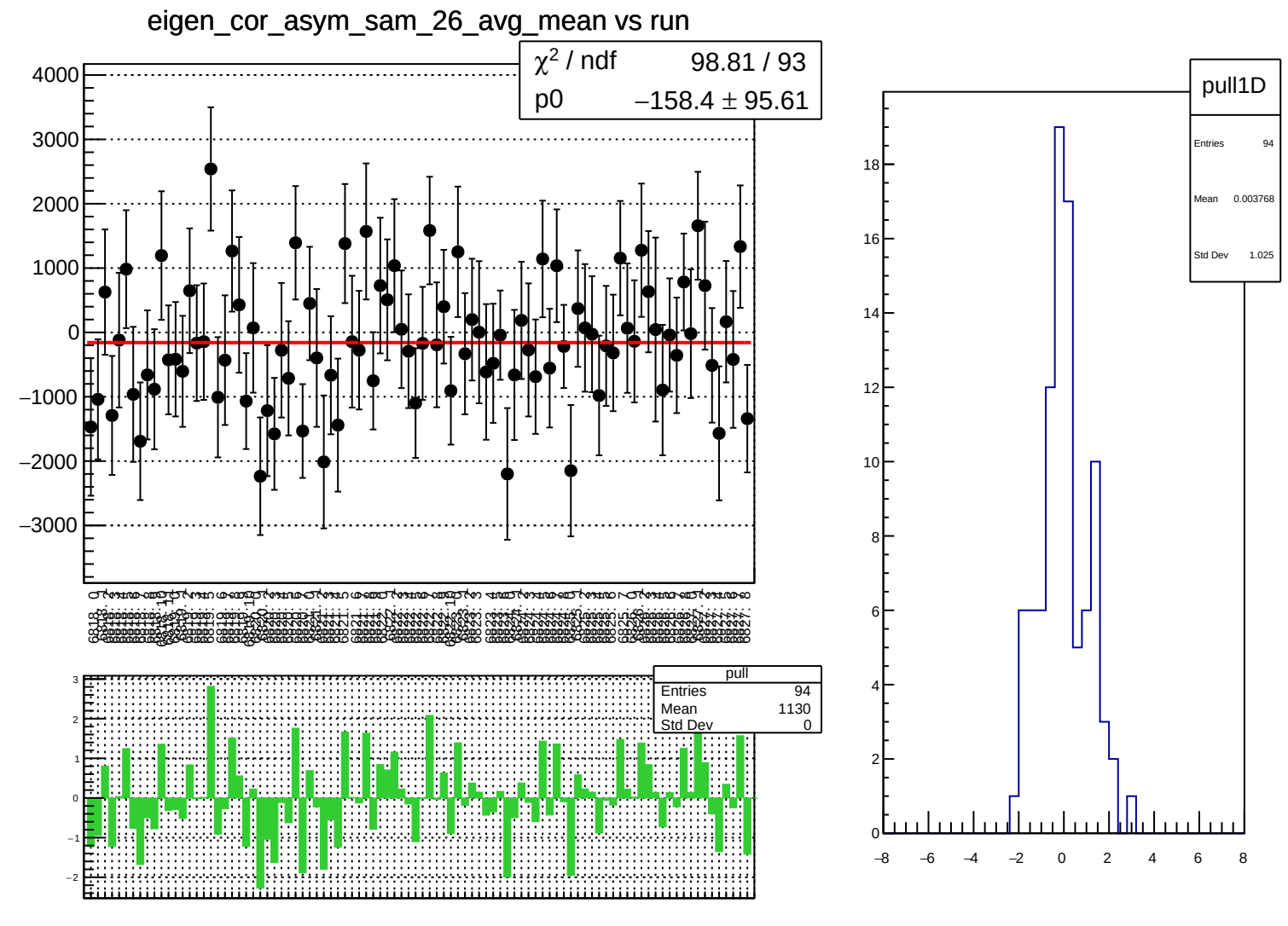

pull1D
Entries 94
Mean 0.003768
Std Dev 1.025

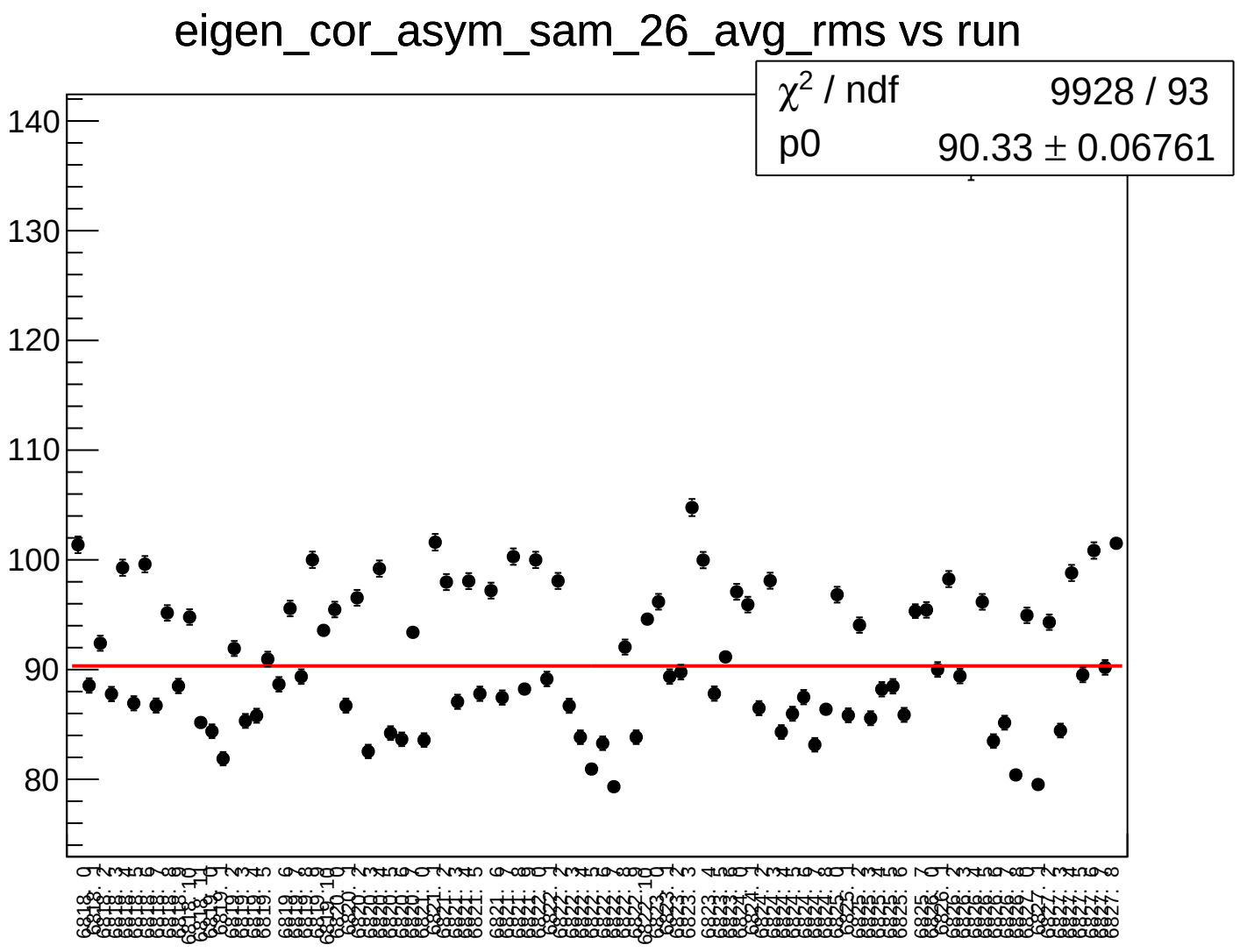

cor_asym_sam_26_avg_rms vs run
χ² / ndf 9928 / 93
p0 90.33 ± 0.06761
140
130
120
110
100
90
80

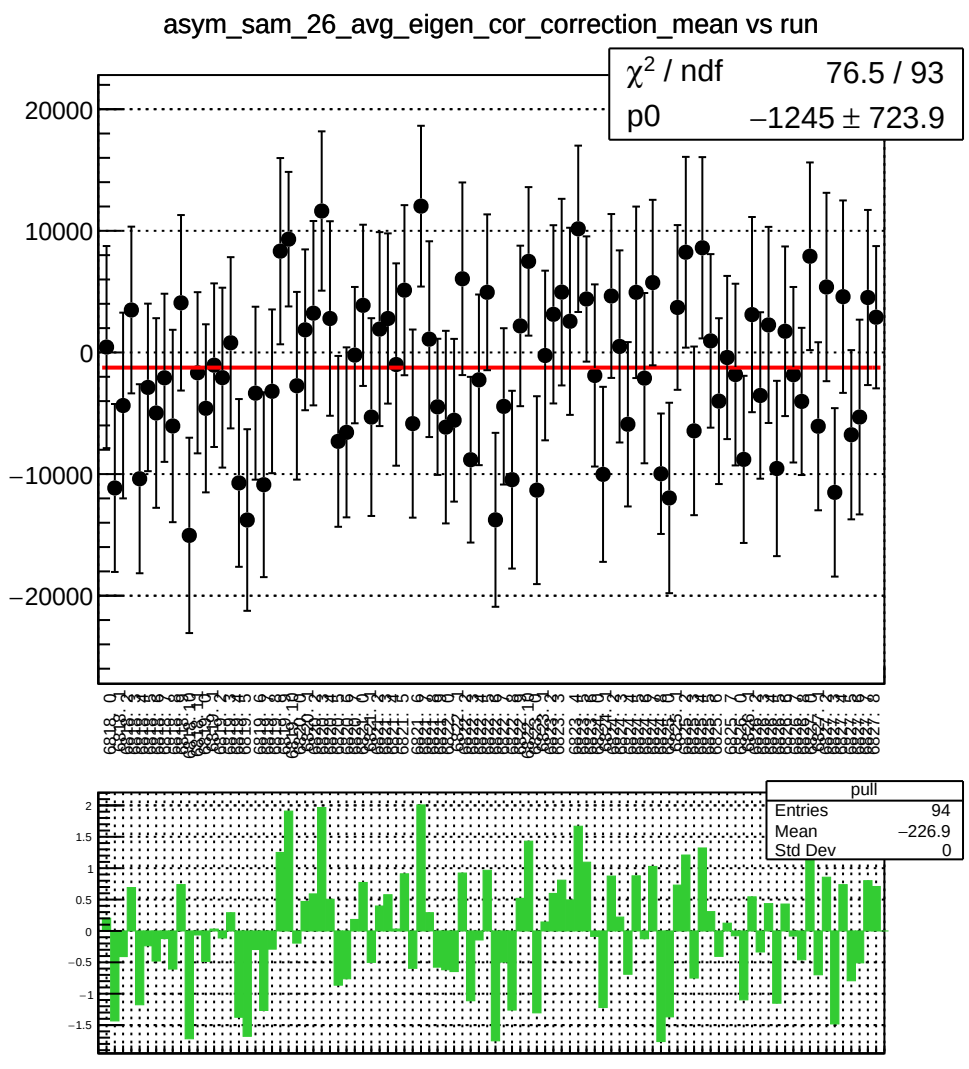

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 76.5 / 93
p0 −1245 ± 723.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −226.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

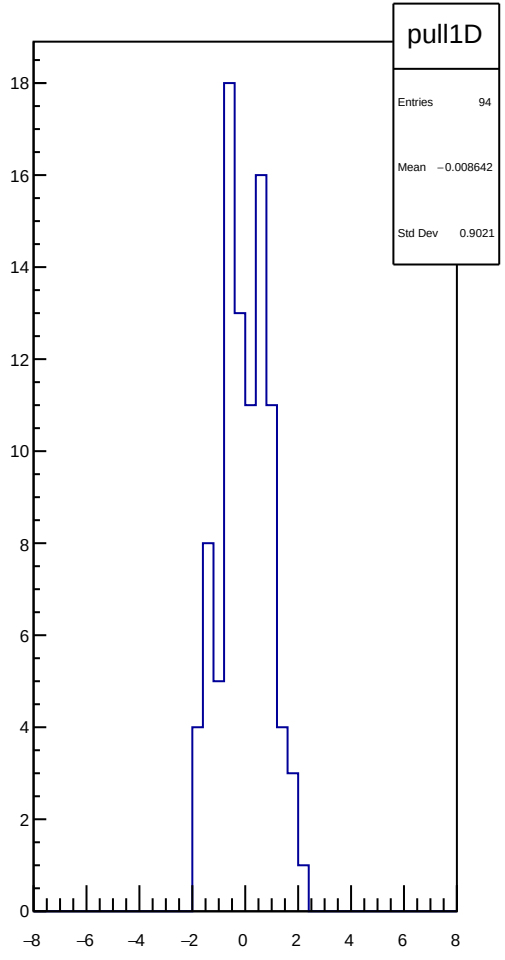

pull1D
Entries 94
Mean −0.008642
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

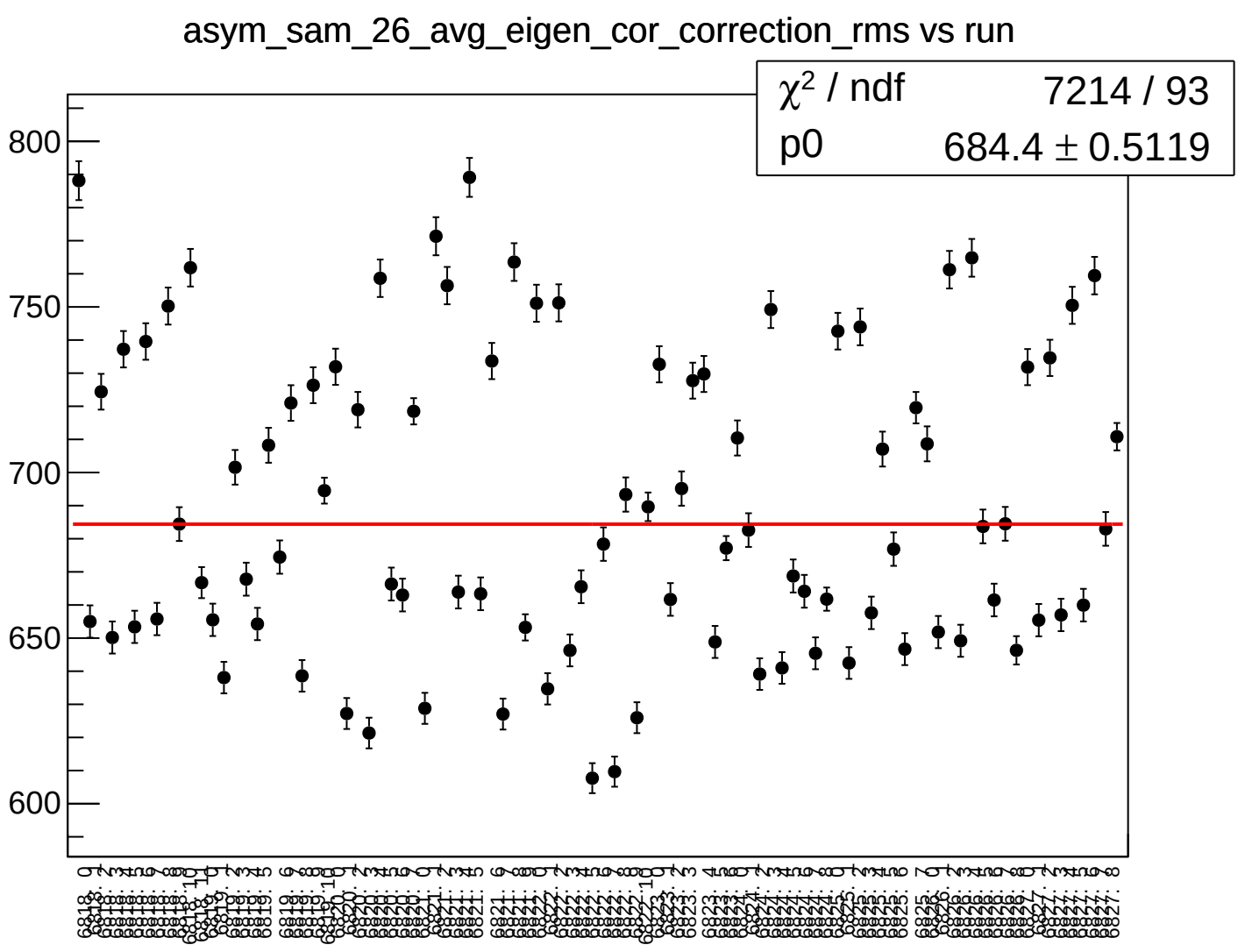

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 7214 / 93
p0 684.4 ± 0.5119
800
750
700
650
600

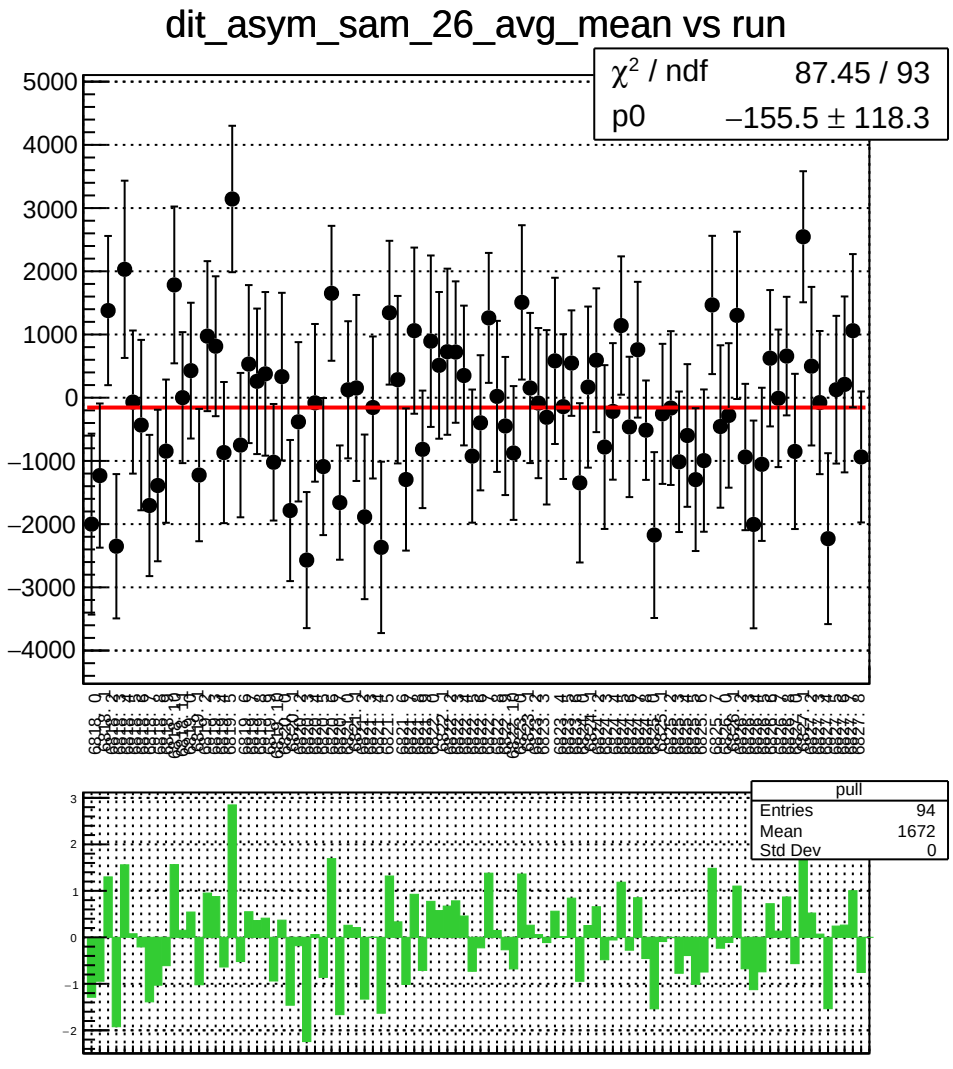

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 98.81 / 93
p0 −158.4 ± 95.61
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 1130
Std Dev 0
pull1D
Entries 94
Mean 0.003768
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

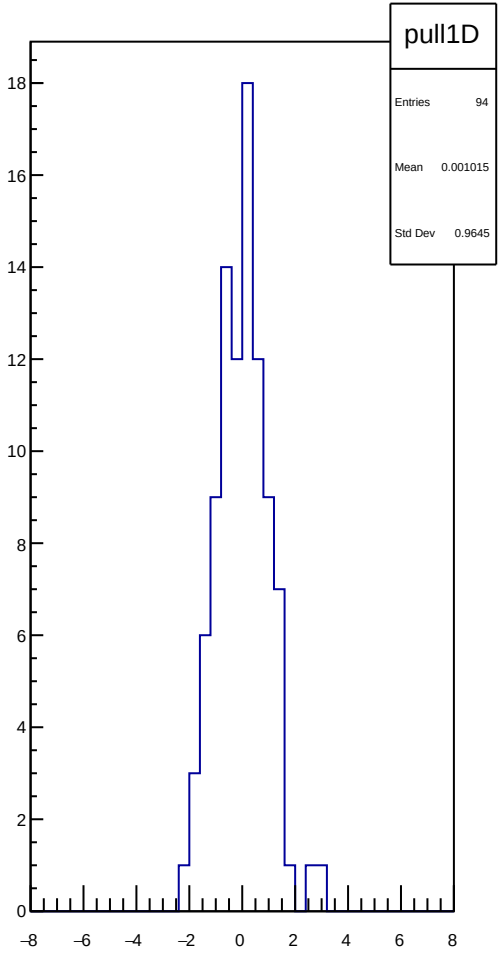

eigen_cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 9928 / 93
p0 90.33 ± 0.06761
140
130
120
110
100
90
80

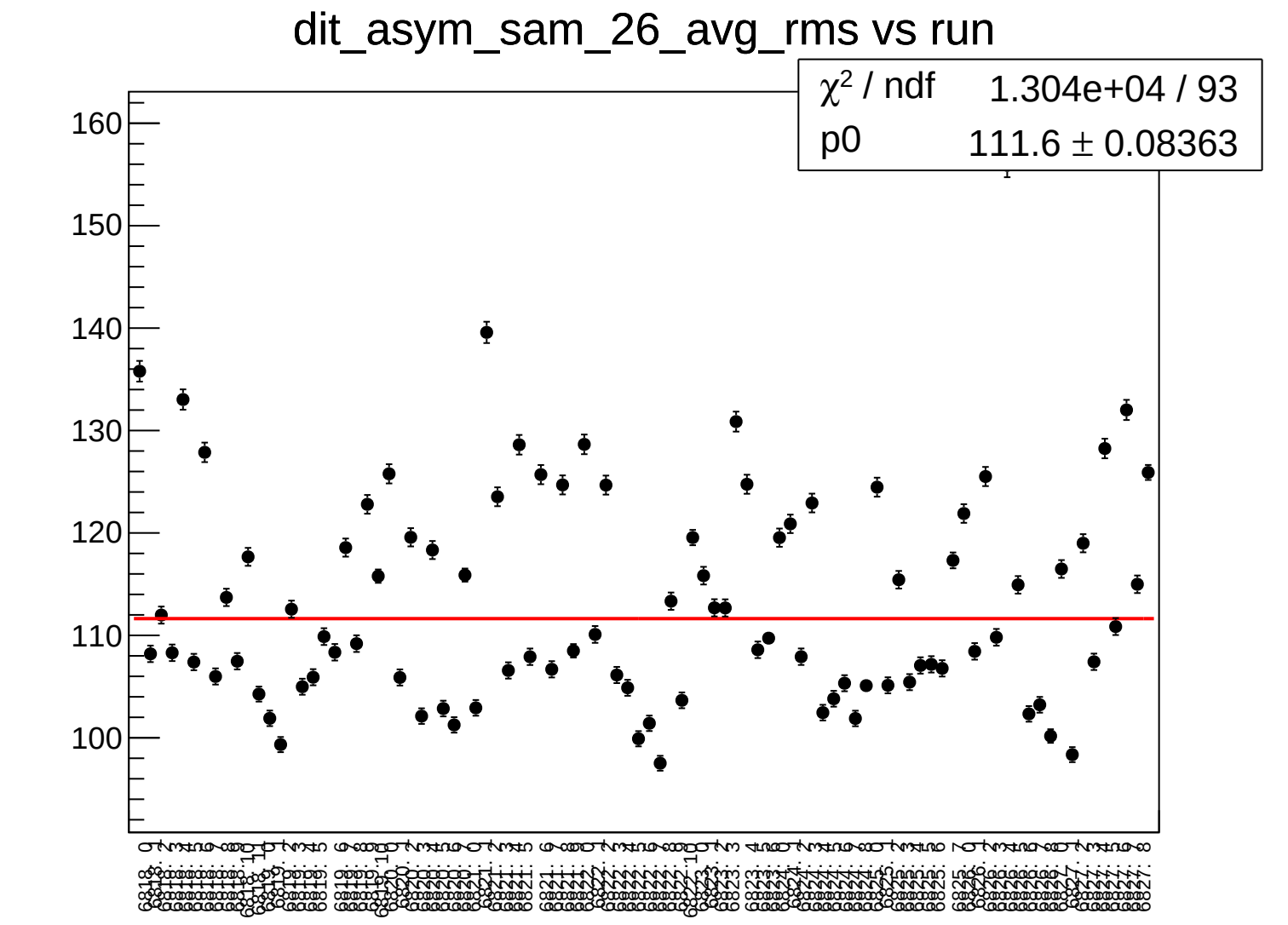

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.5 / 93
p0 −1245 ± 723.9
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −226.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

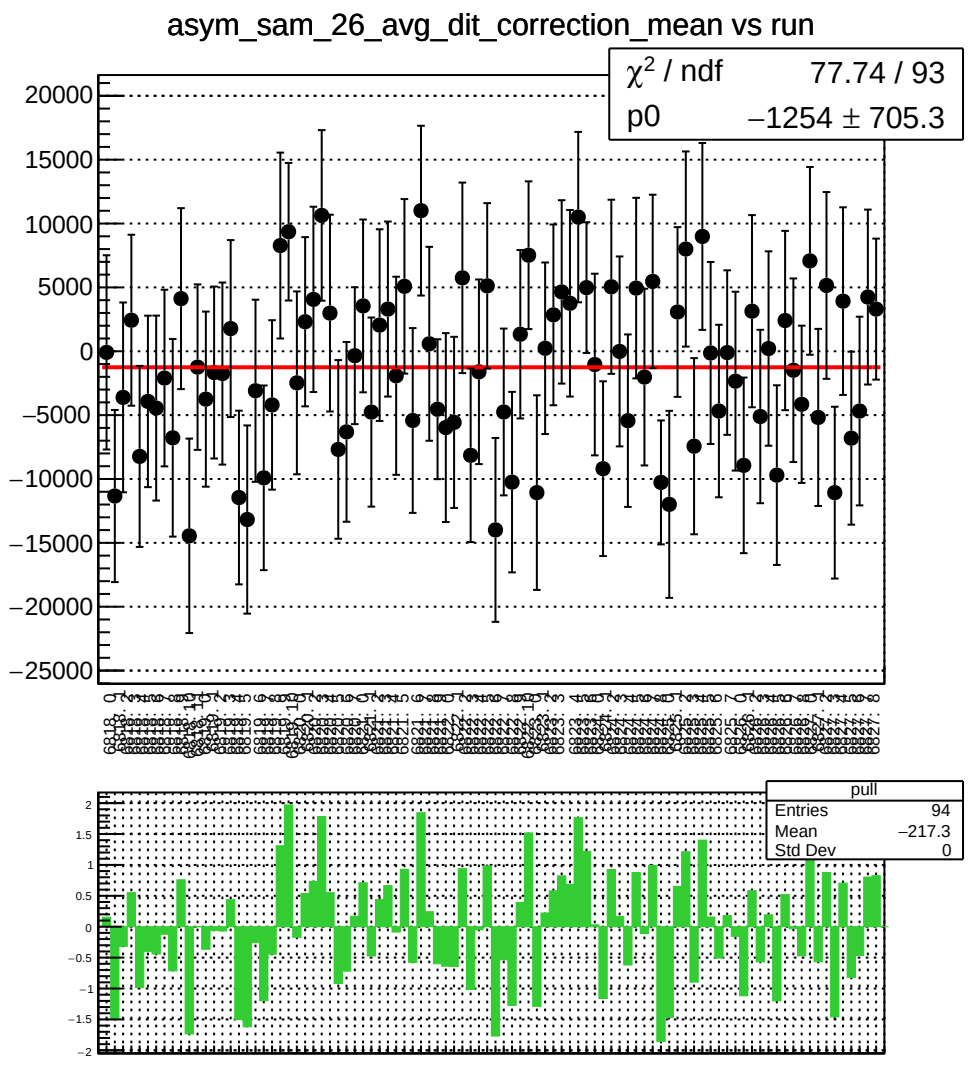

pull1D
Entries 94
Mean −0.008642
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

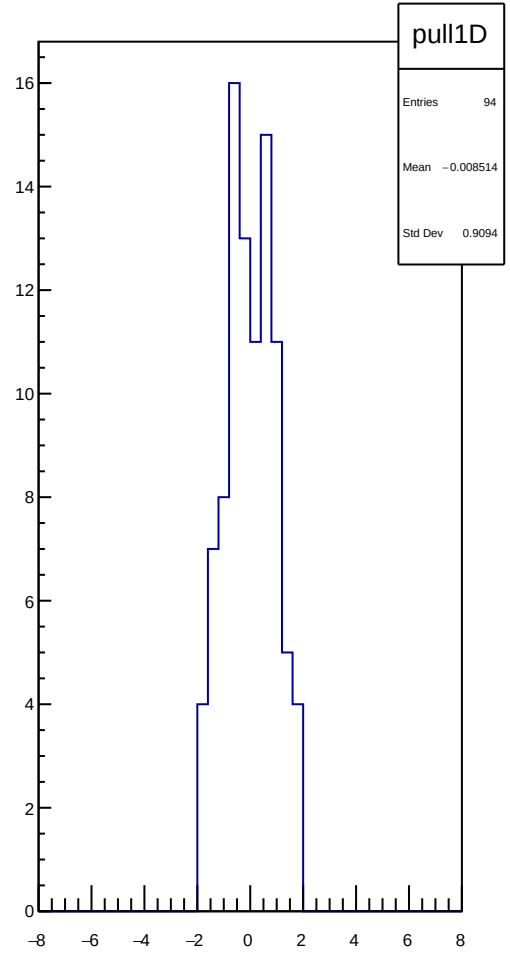

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 7214 / 93
p0 684.4 ± 0.5119
800
750
700
650
600

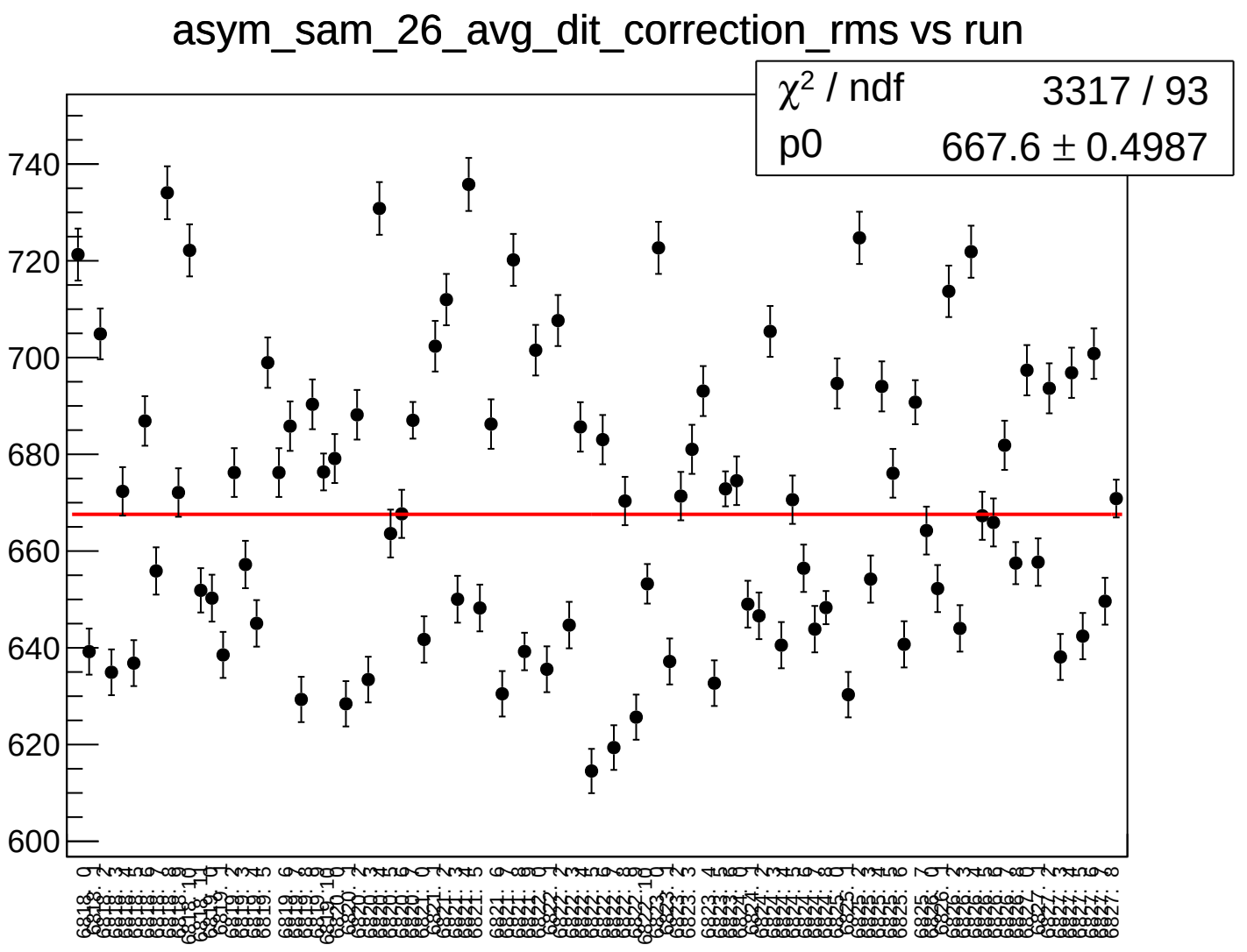

dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.45 / 93
p0 −155.5 ± 118.3
pull
Entries 94
Mean 1672
Std Dev 0

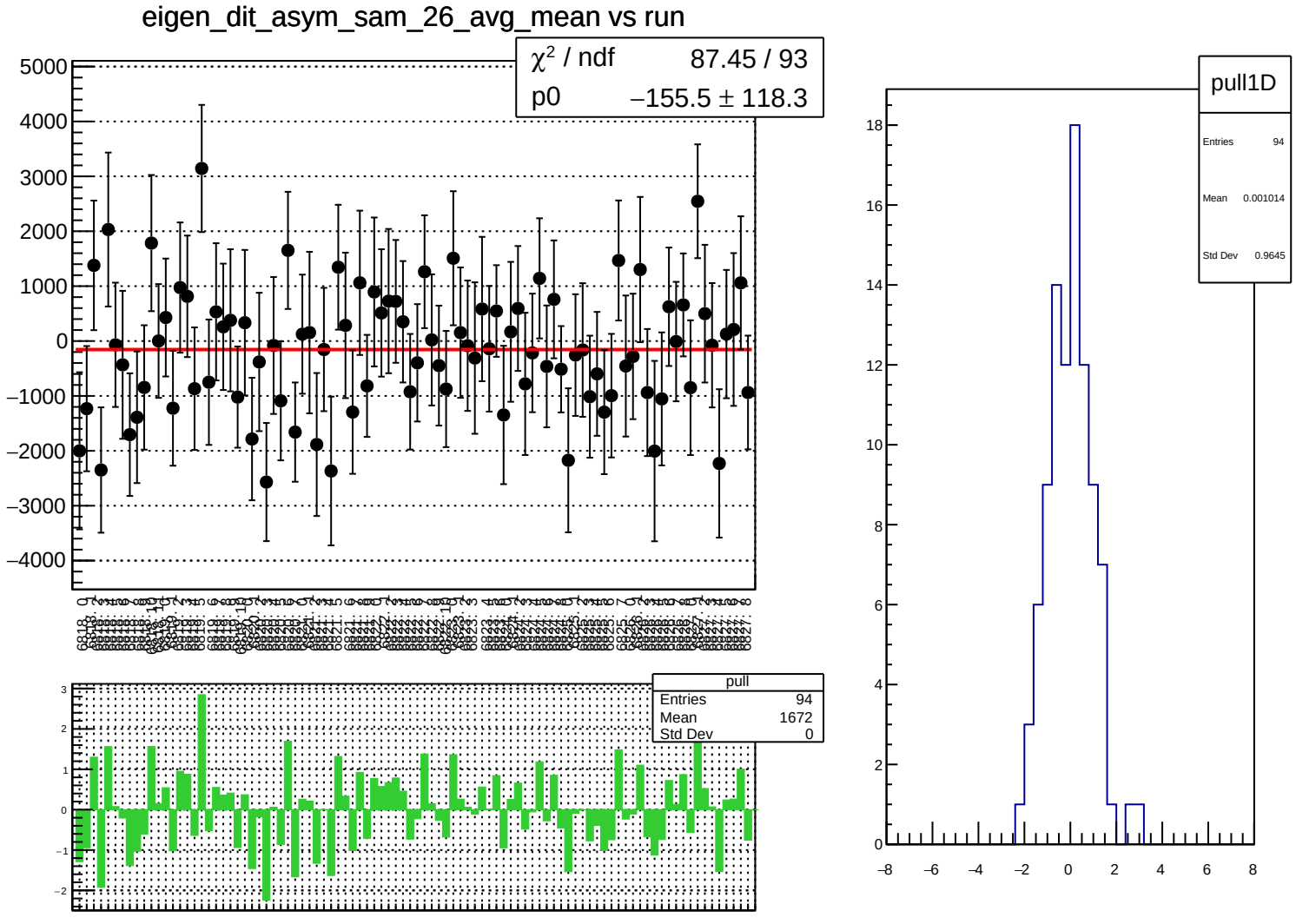

pull1D
Entries 94
Mean 0.001015
Std Dev 0.9645

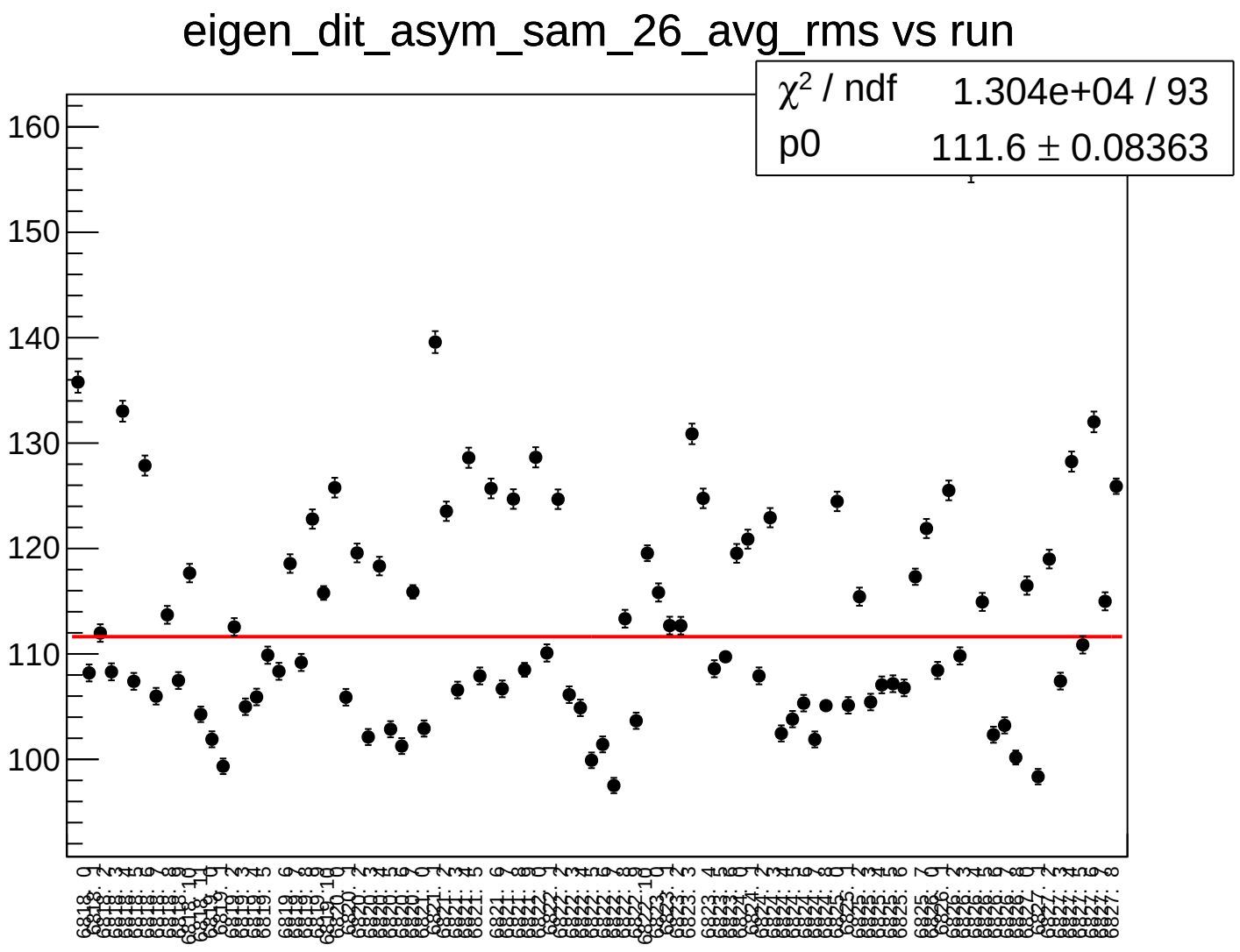

dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.304e+04 / 93
p0 111.6 ± 0.08363
160
150
140
130
120
110
100

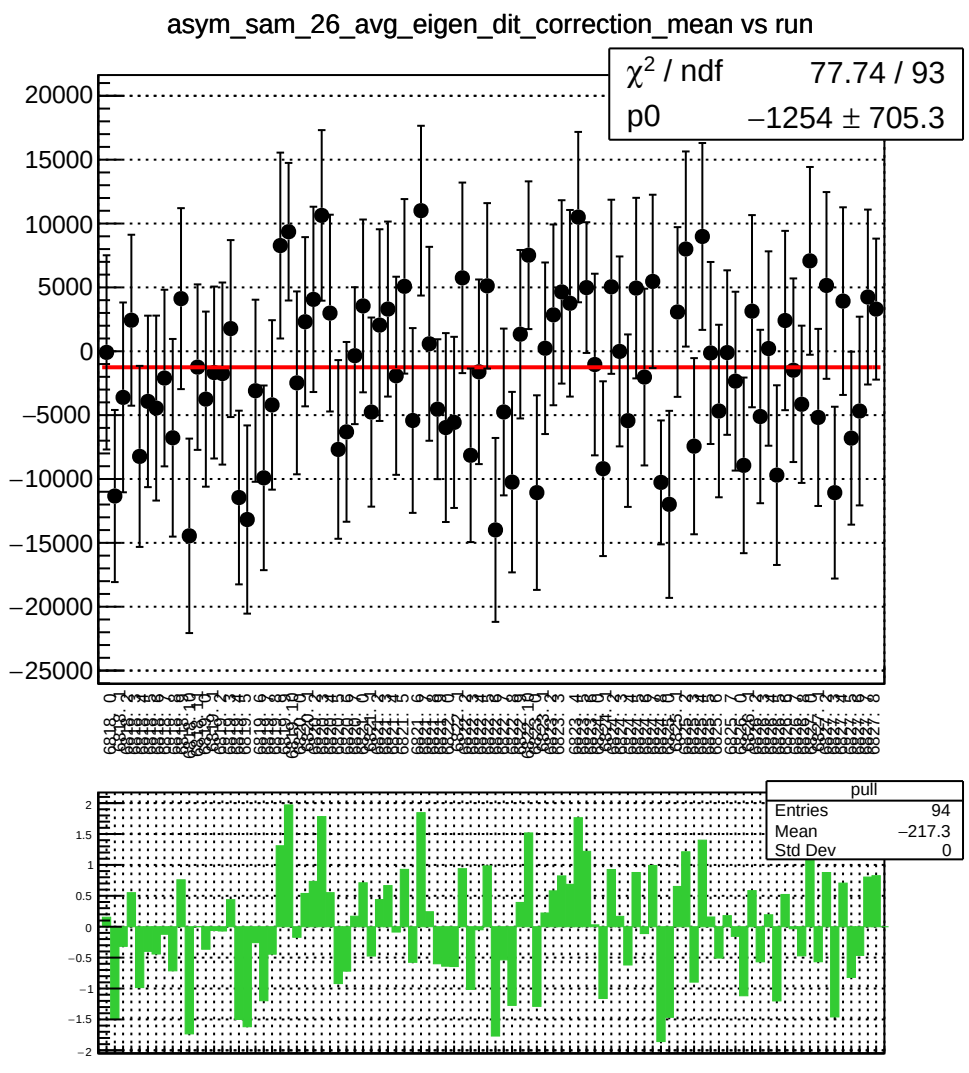

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 77.74 / 93
p0 −1254 ± 705.3
pull
Entries 94
Mean −217.3
Std Dev 0

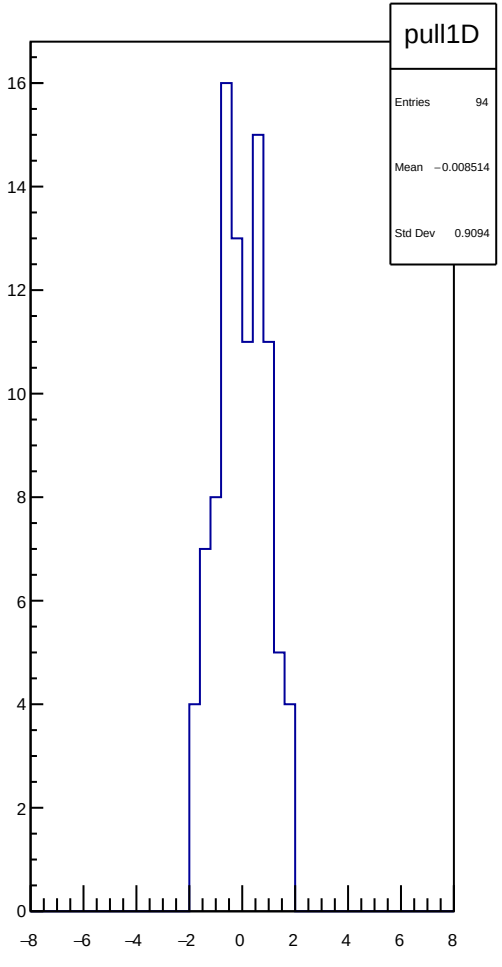

pull1D
Entries 94
Mean −0.008514
Std Dev 0.9094

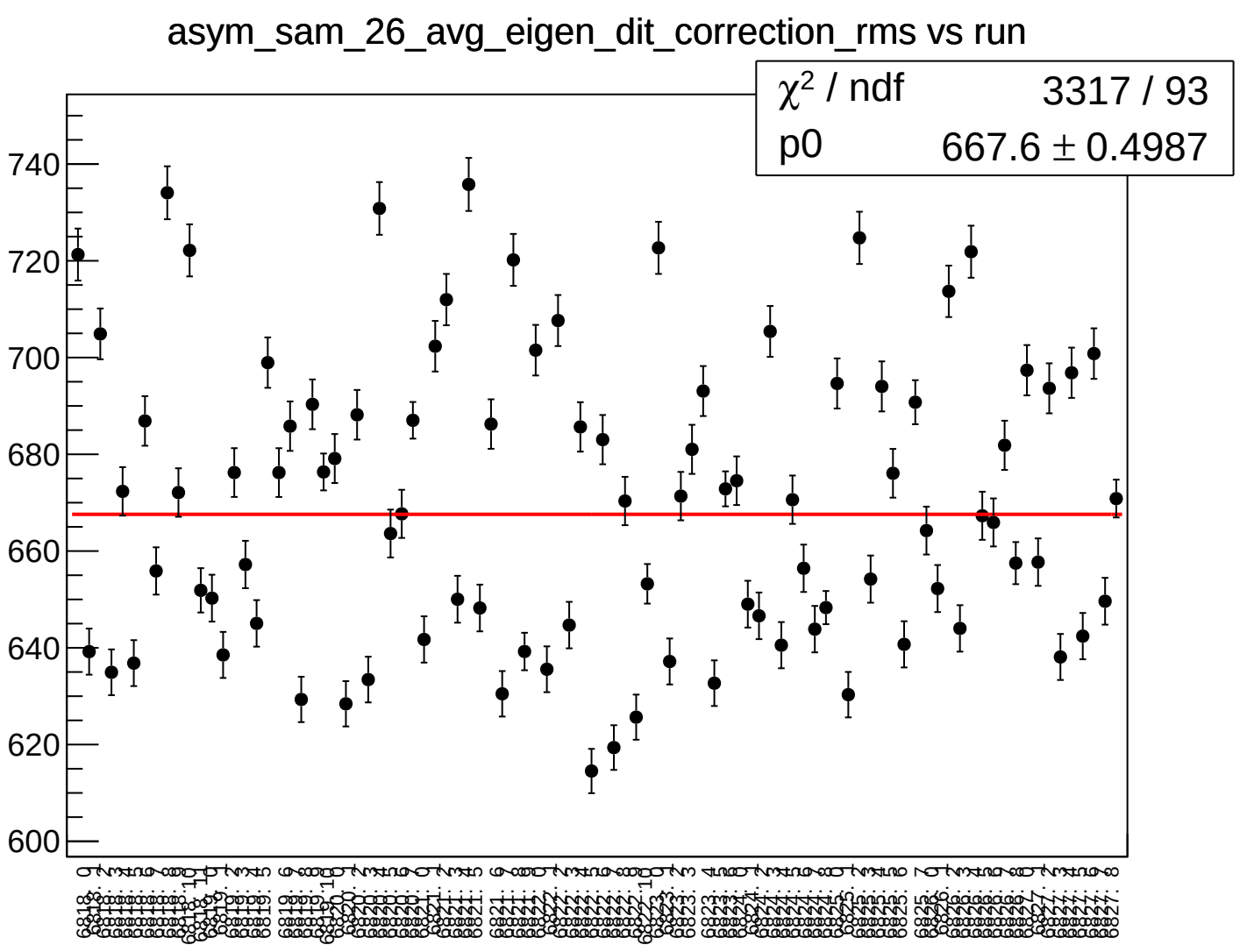

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 3317 / 93
p0 667.6 ± 0.4987
740
720
700
680
660
640
620
600

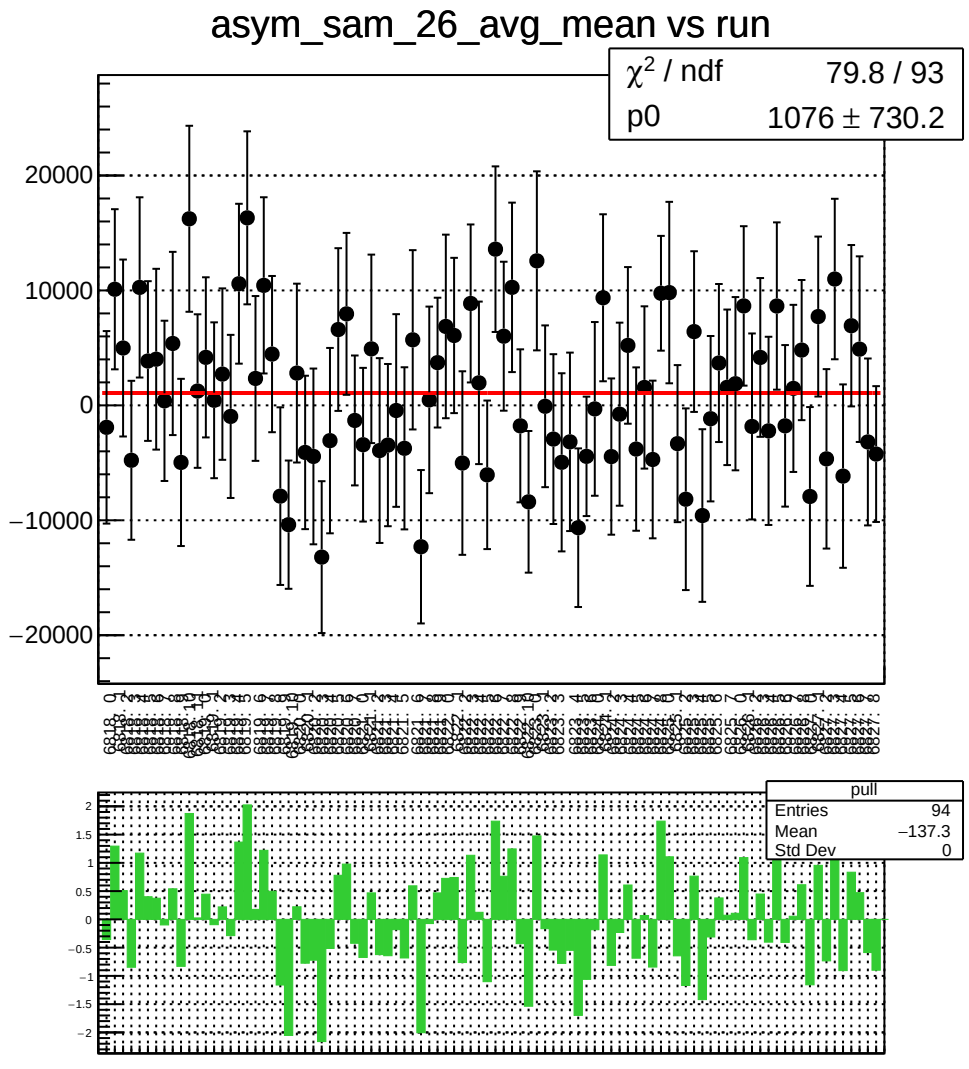

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 87.45 / 93
p0 −155.5 ± 118.3
pull
Entries 94
Mean 1672
Std Dev 0
pull1D
Entries 94
Mean 0.001014
Std Dev 0.9645

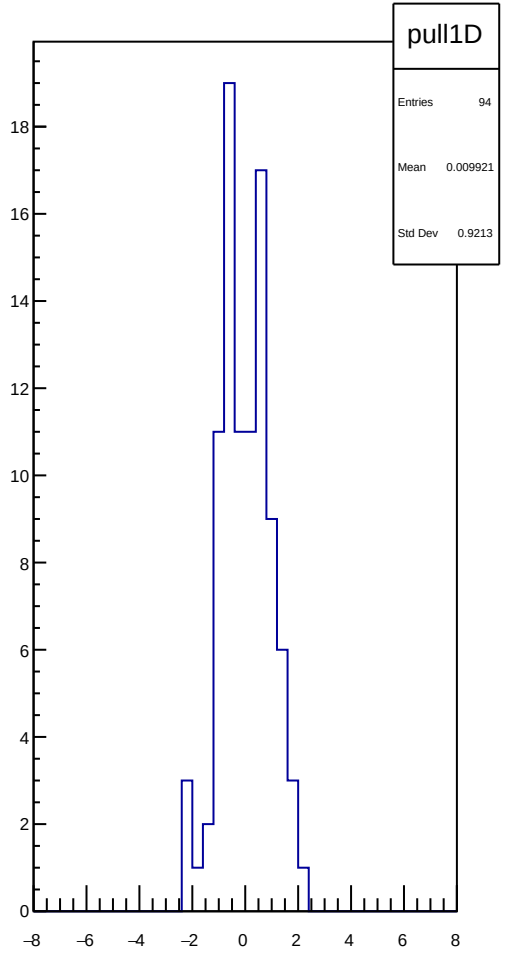

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 1.304e+04 / 93
p0 111.6 ± 0.08363
160
150
140
130
120
110
100

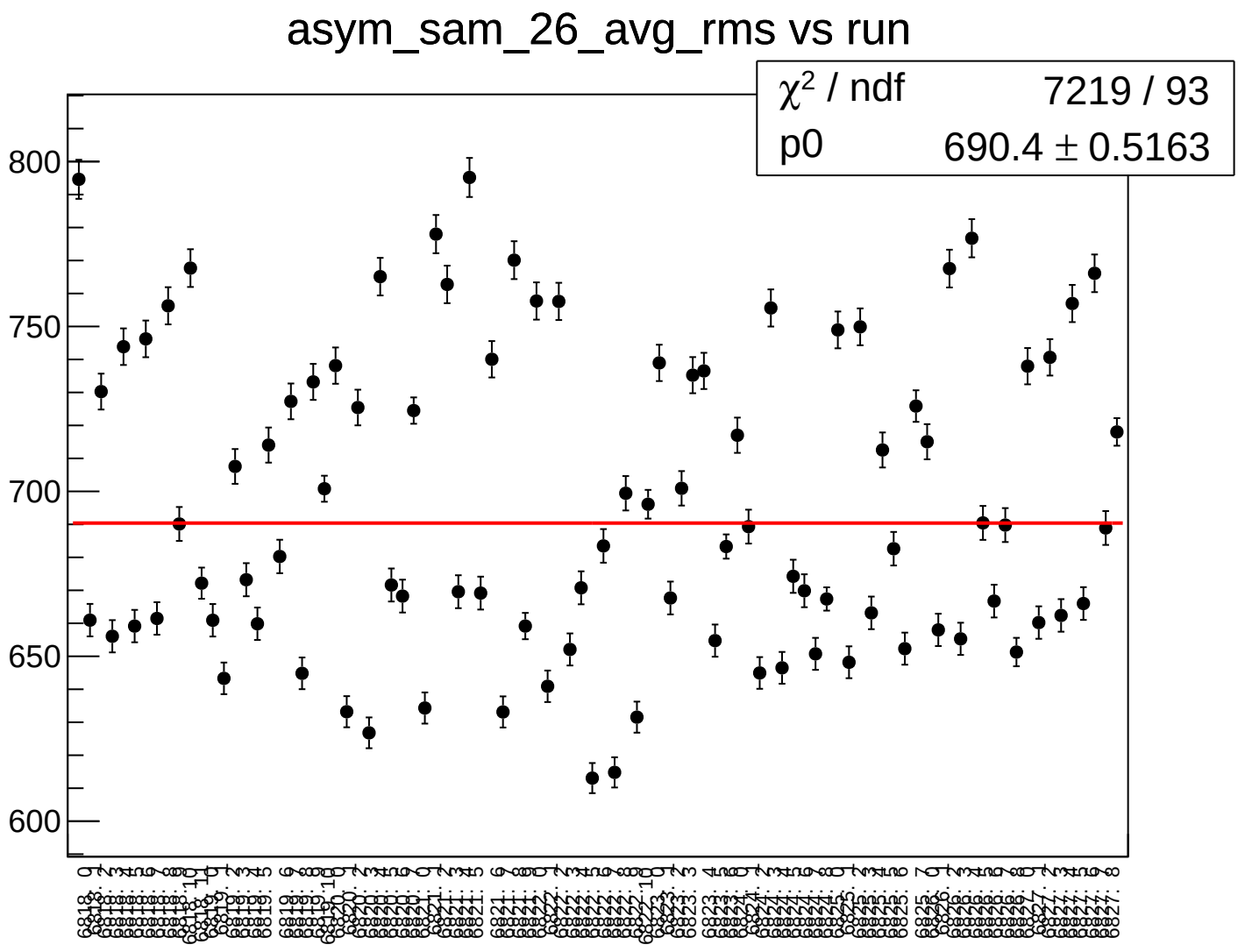

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 77.74 / 93
p0 −1254 ± 705.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −217.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

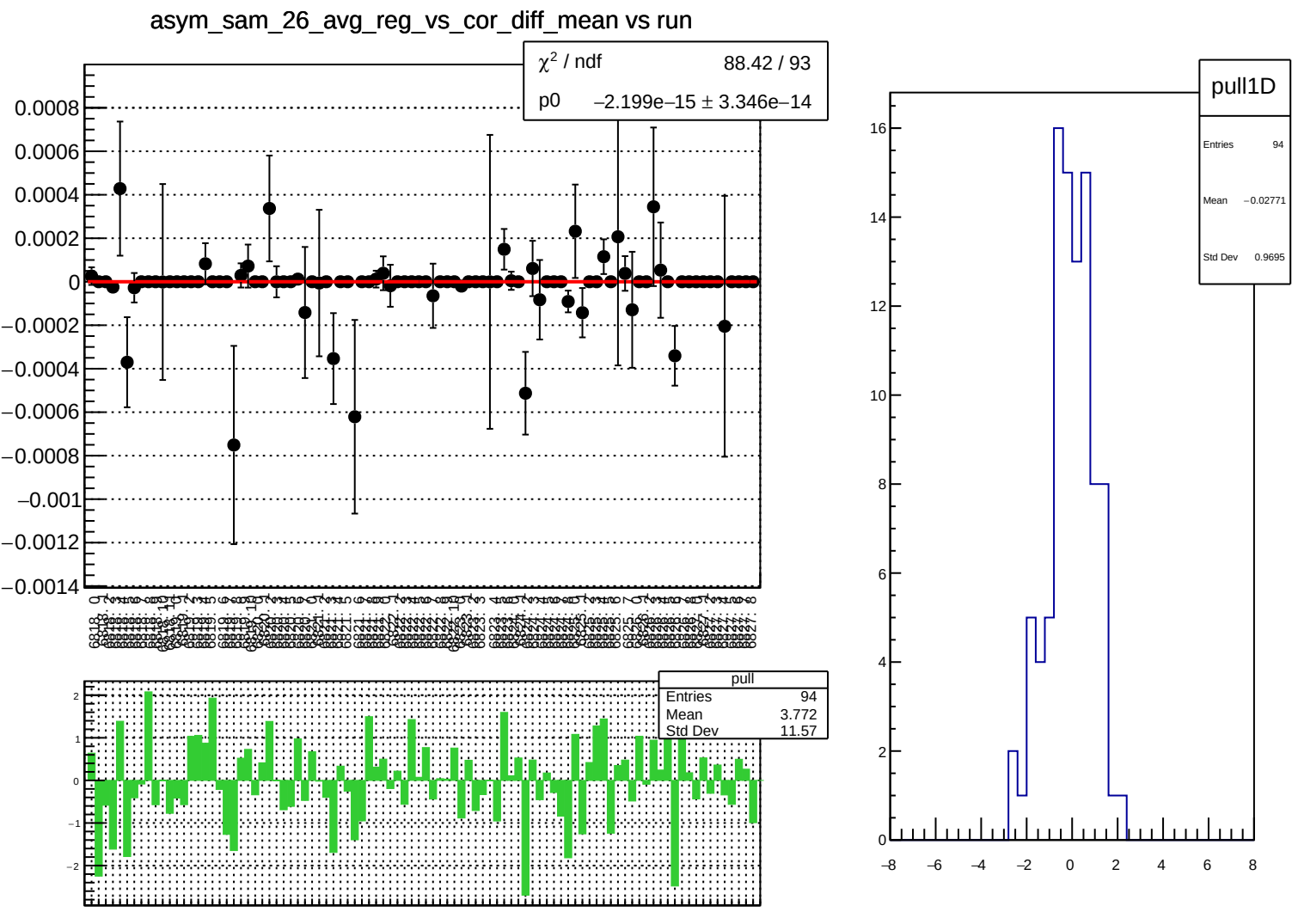

pull1D
Entries 94
Mean −0.008514
Std Dev 0.9094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

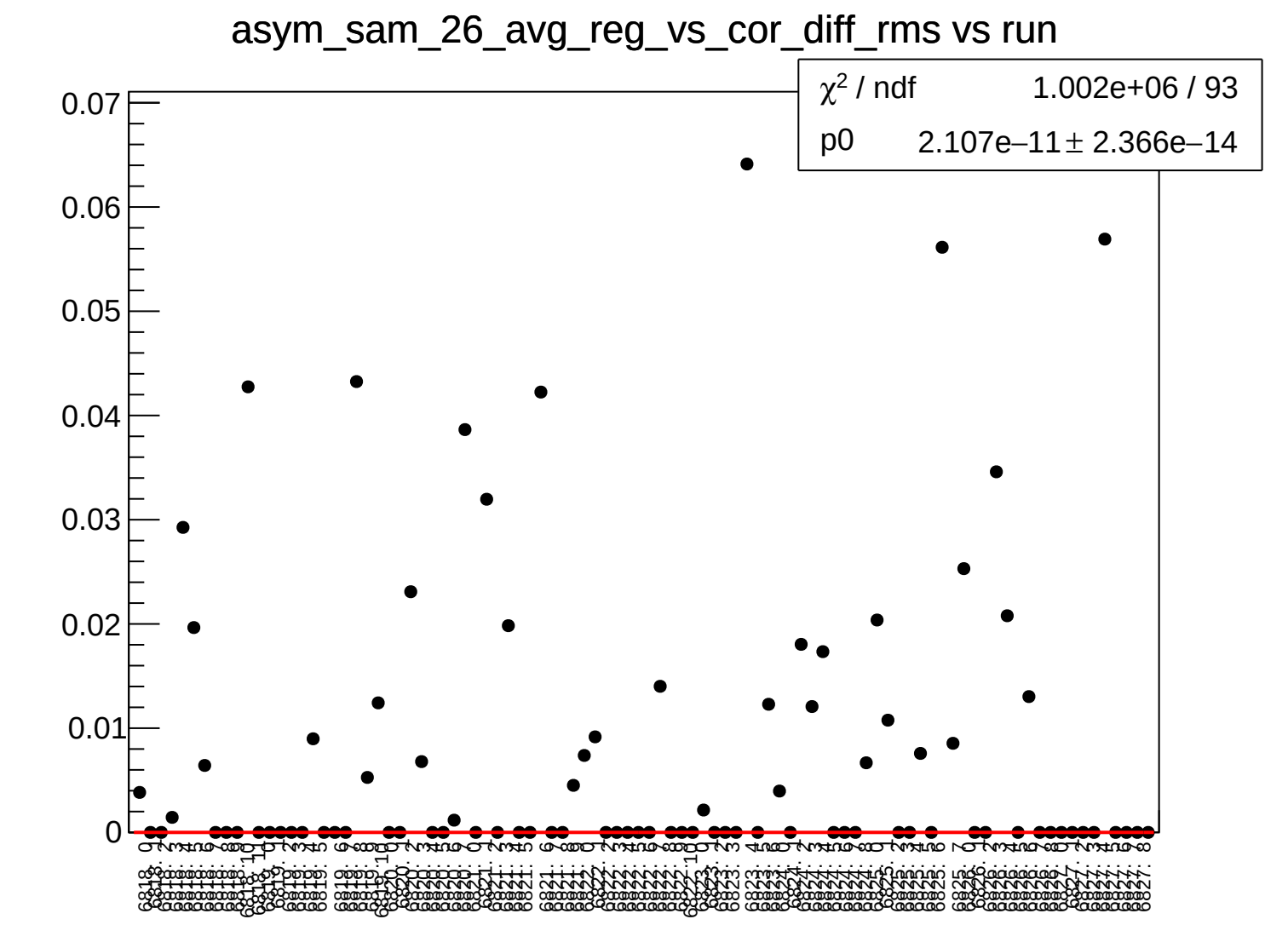

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 3317 / 93
p0 667.6 ± 0.4987
740
720
700
680
660
640
620
600

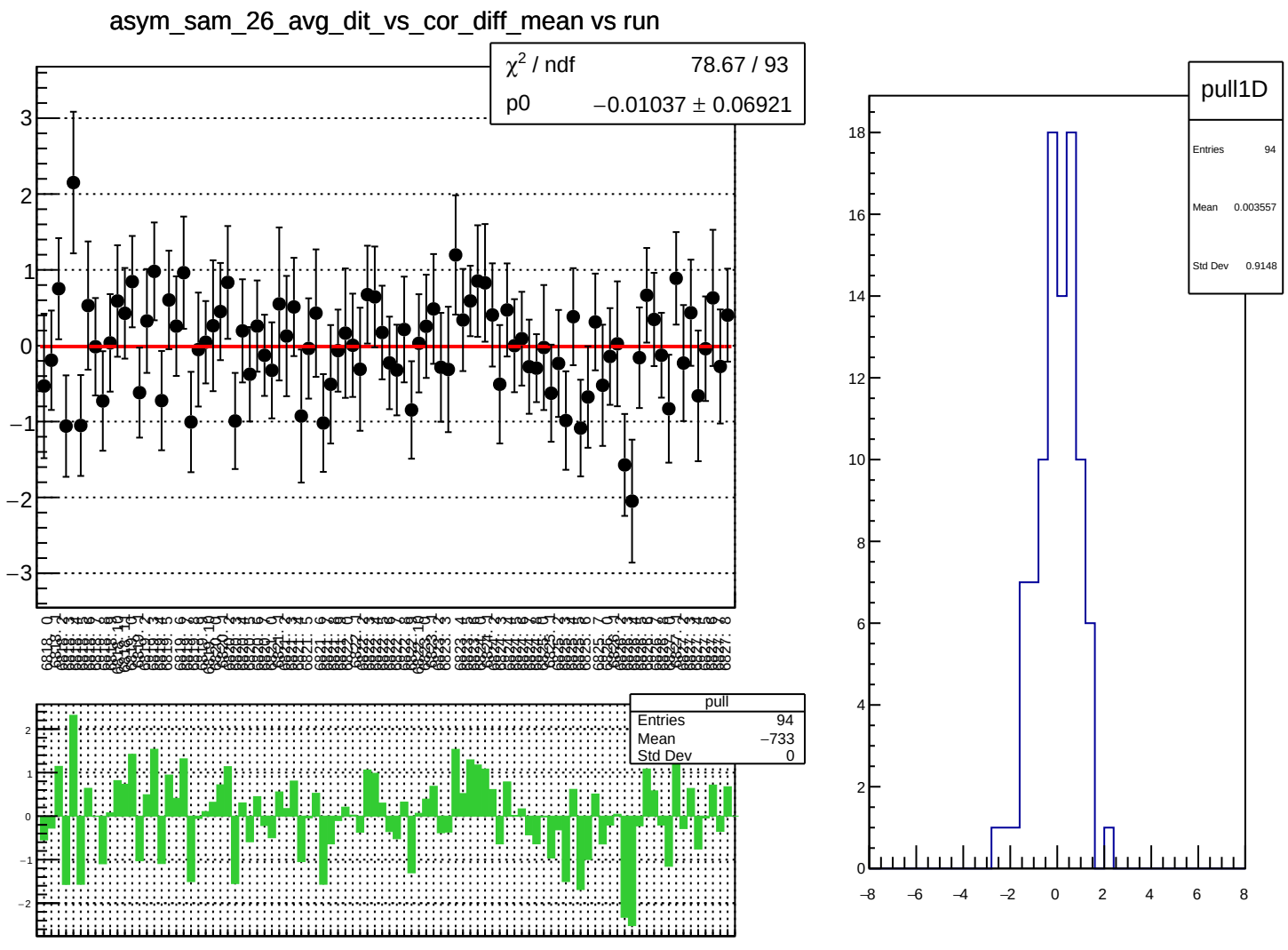

asym_sam_26_avg_mean vs run
χ² / ndf 79.8 / 93
p0 1076 ± 730.2
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −137.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

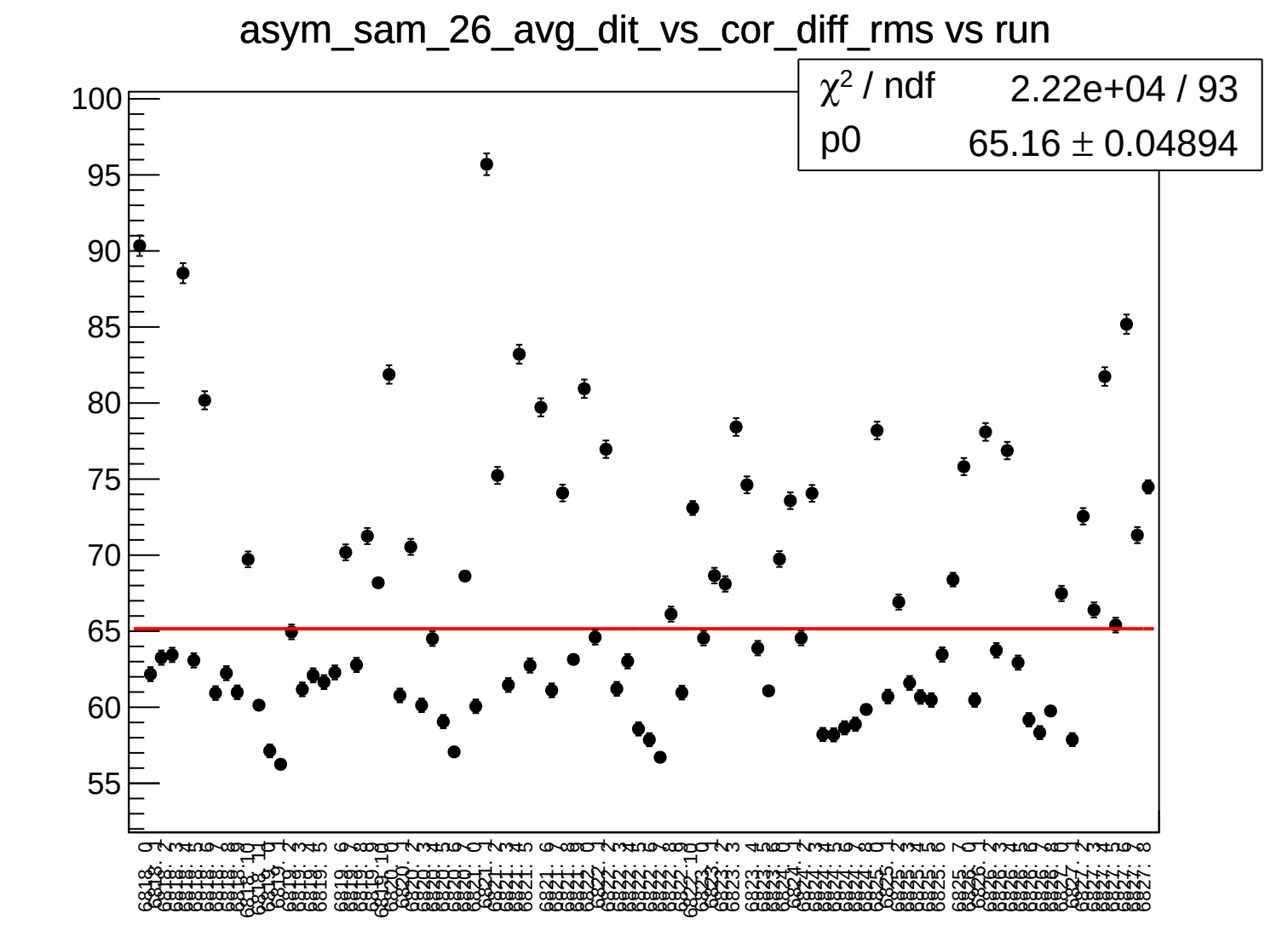

pull1D
Entries 94
Mean 0.009921
Std Dev 0.9213
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

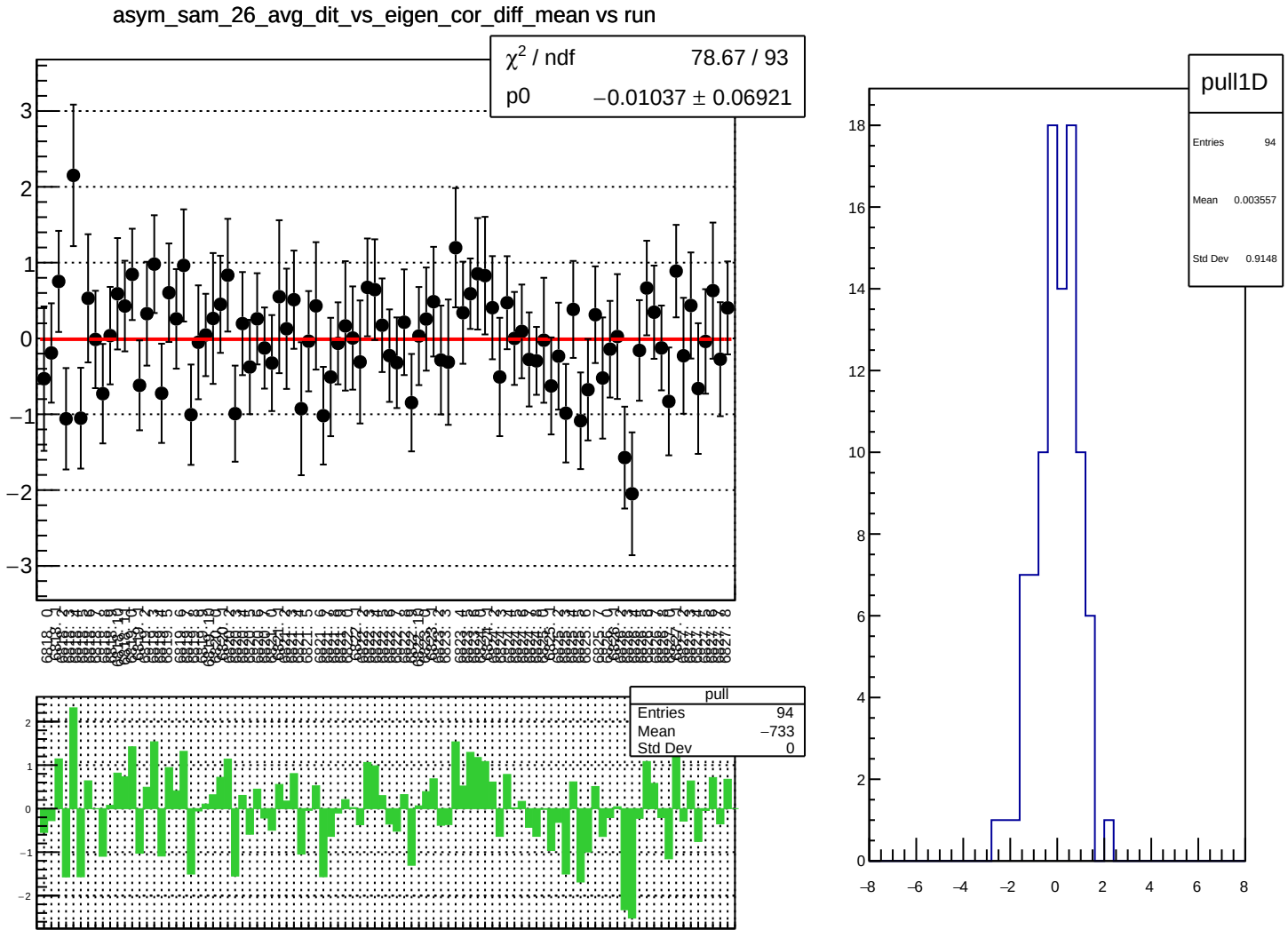

asym_sam_26_avg_rms vs run
χ² / ndf 7219 / 93
p0 690.4 ± 0.5163
800
750
700
650
600

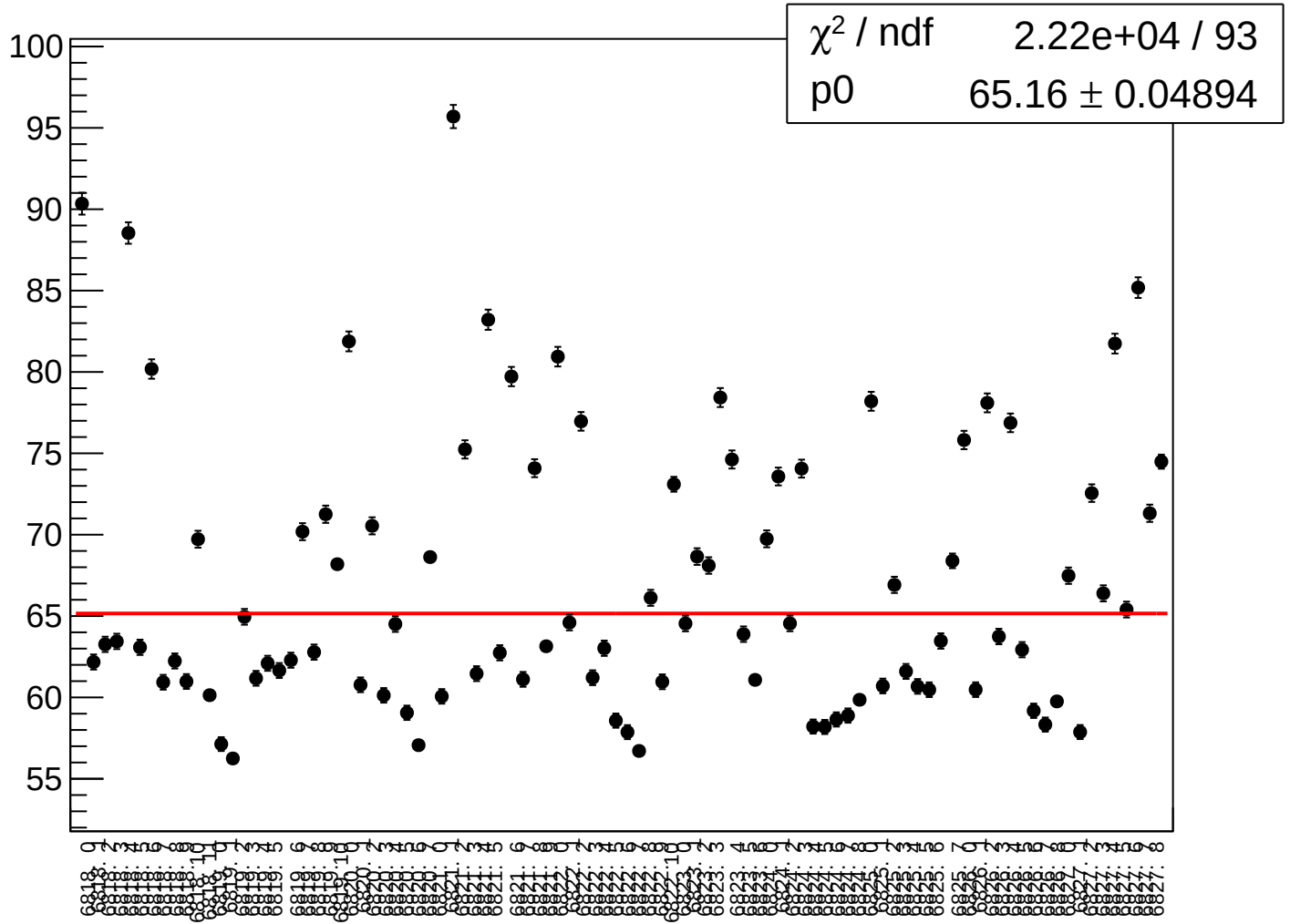

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.42 / 93
p0 −2.199e−15 ± 3.346e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 94
Mean 3.772
Std Dev 11.57
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.02771
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

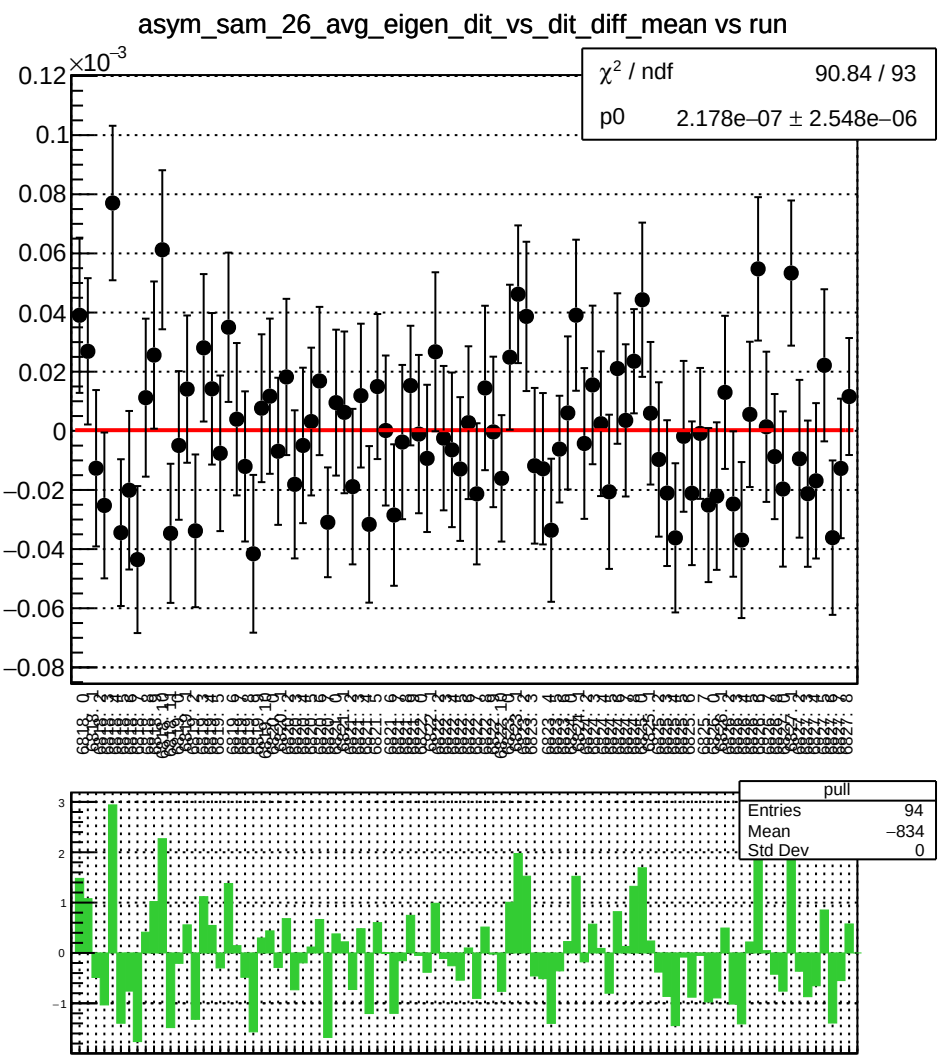

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 93
p0 2.107e−11 ± 2.366e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

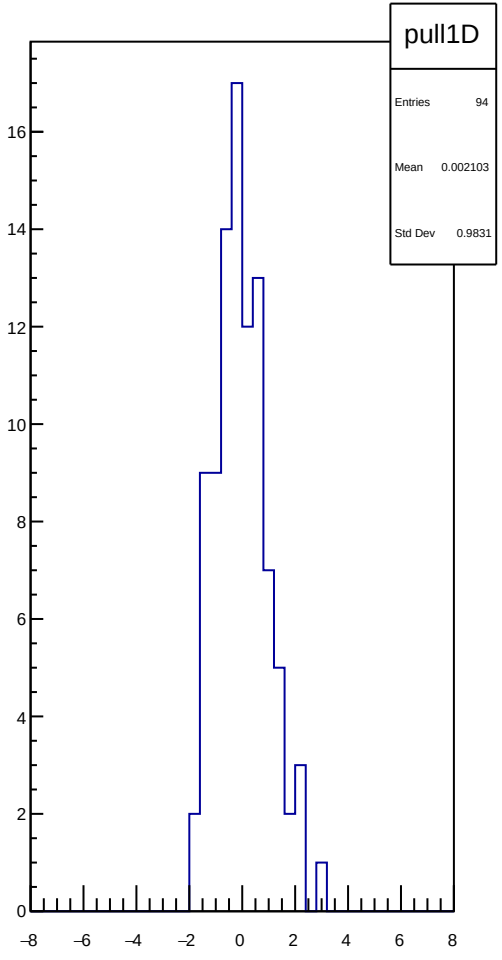

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 93
p0 −0.01037 ± 0.06921
pull
Entries 94
Mean −733
Std Dev 0
pull1D
Entries 94
Mean 0.003557
Std Dev 0.9148

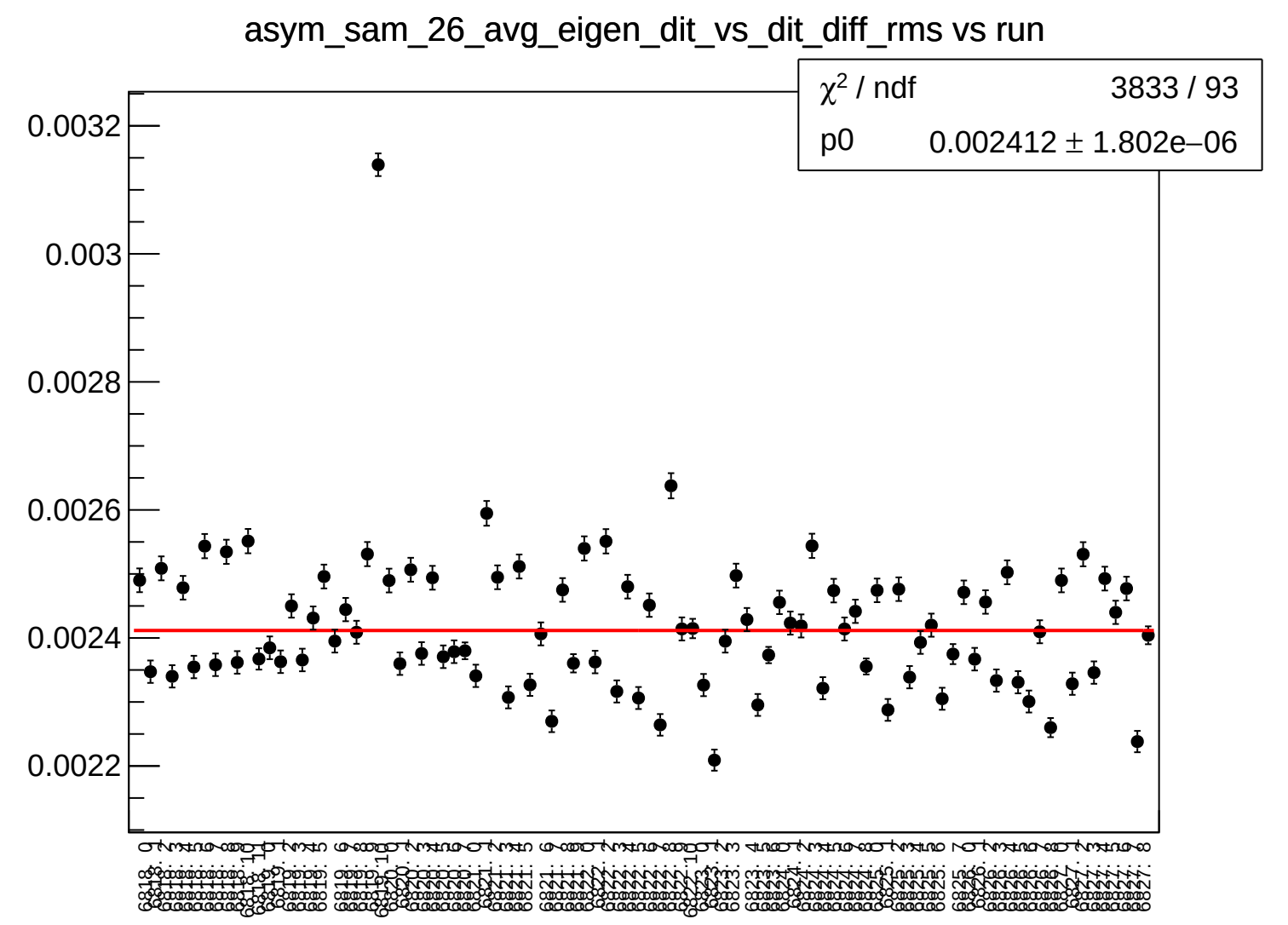

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.22e+04 / 93
p0 65.16 ± 0.04894
100
95
90
85
80
75
70
65
60
55

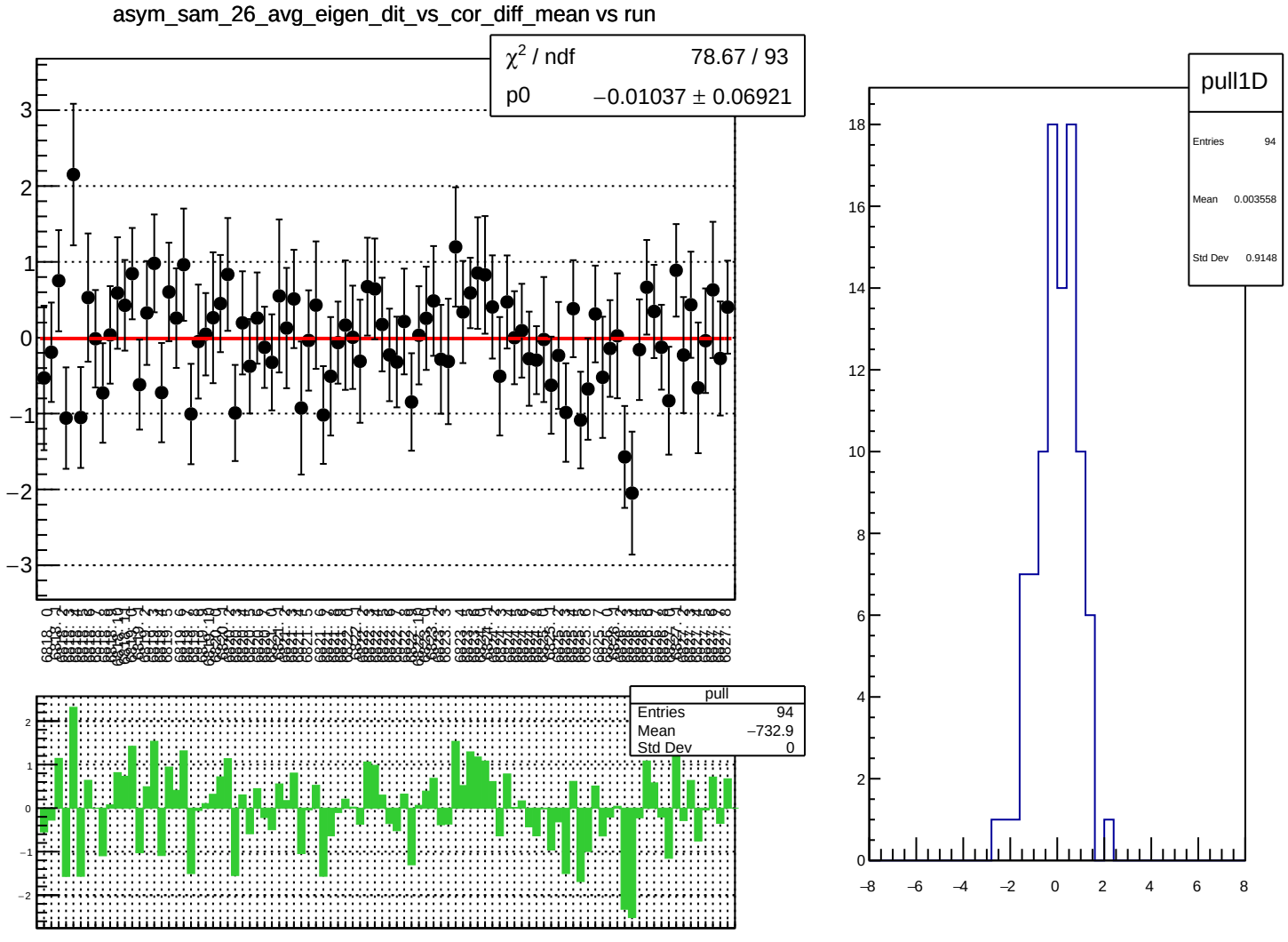

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 93
p0 −0.01037 ± 0.06921
pull
Entries 94
Mean −733
Std Dev 0
pull1D
Entries 94
Mean 0.003557
Std Dev 0.9148

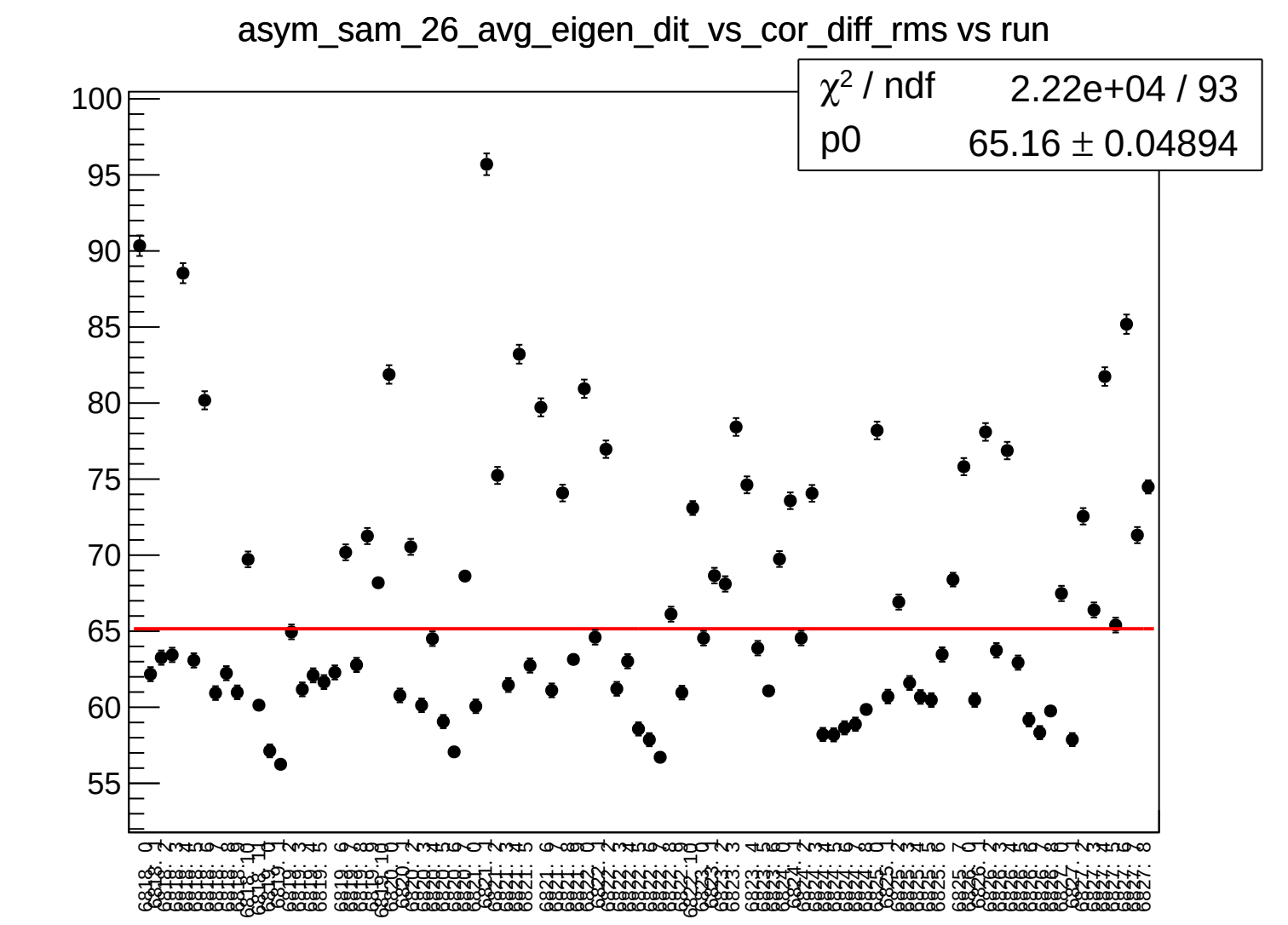

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+04 / 93
p0 65.16 ± 0.04894
100
95
90
85
80
75
70
65
60
55

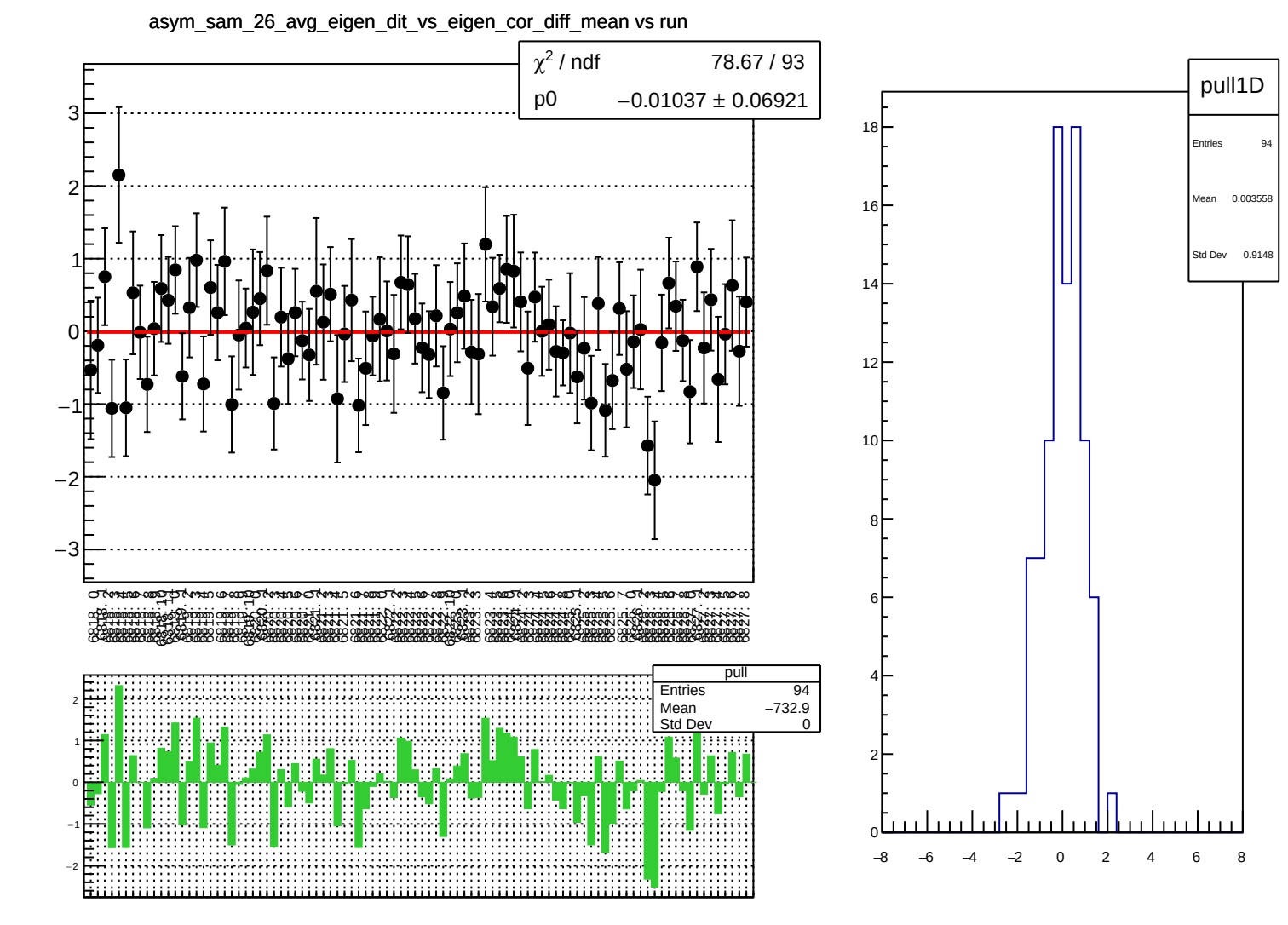

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.84 / 93
p0 2.178e−07 ± 2.548e−06
pull
Entries 94
Mean −834
Std Dev 0

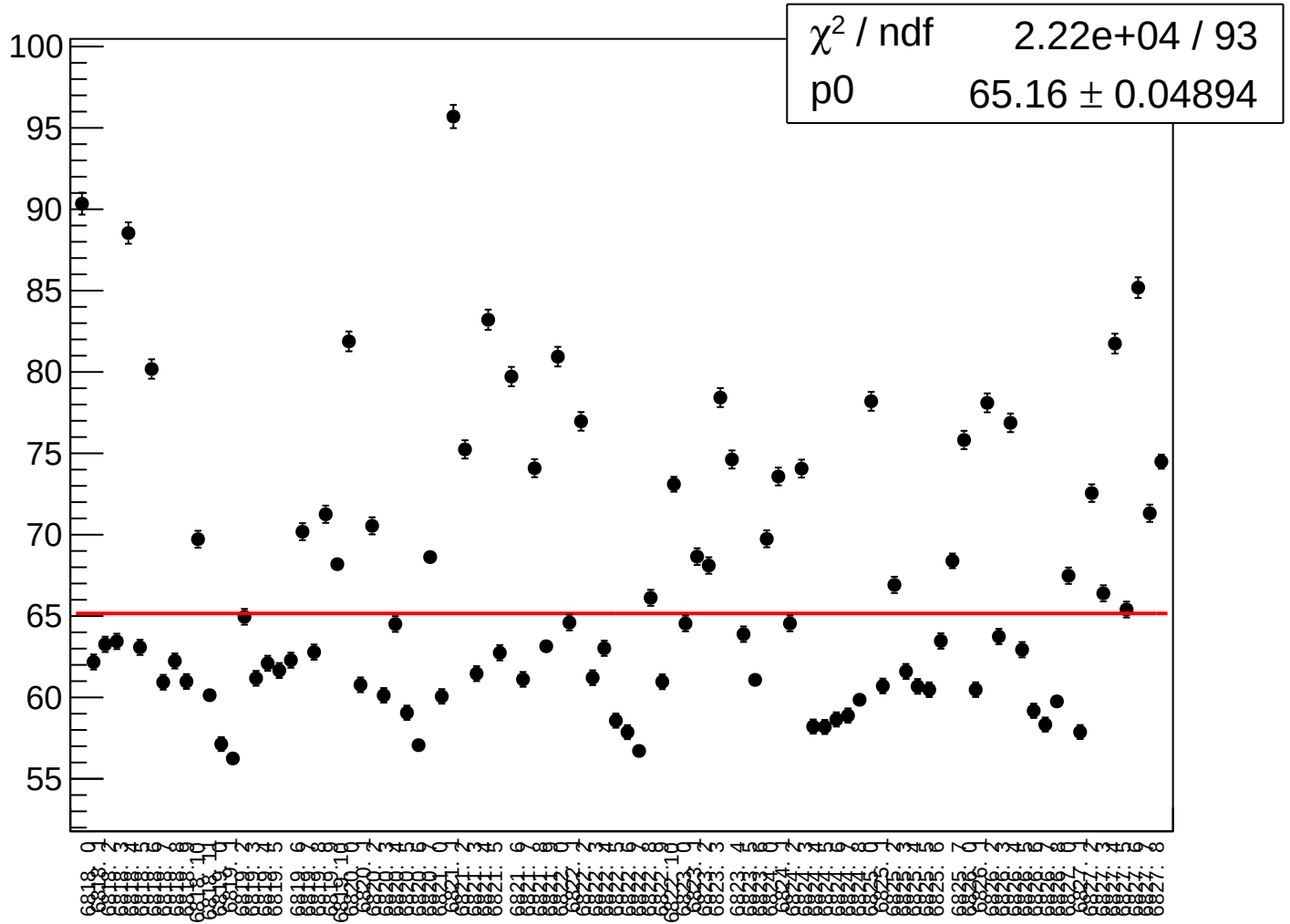

pull1D
Entries 94
Mean 0.002103
Std Dev 0.9831

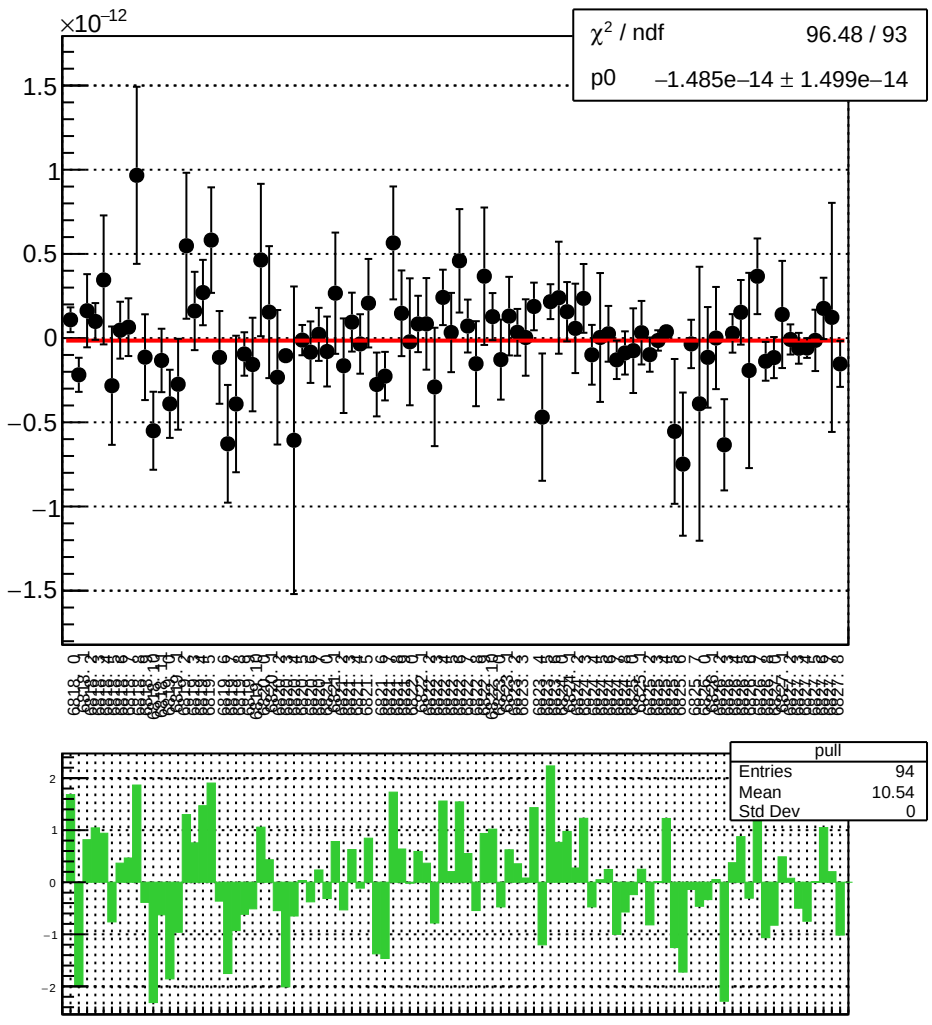

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3833 / 93
p0 0.002412 ± 1.802e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

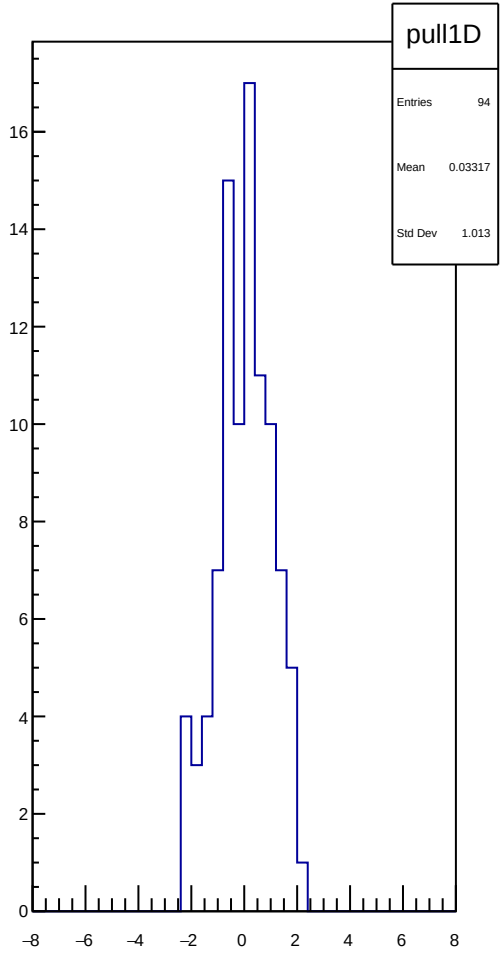

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 93
p0 −0.01037 ± 0.06921
pull
Entries 94
Mean −732.9
Std Dev 0
pull1D
Entries 94
Mean 0.003558
Std Dev 0.9148

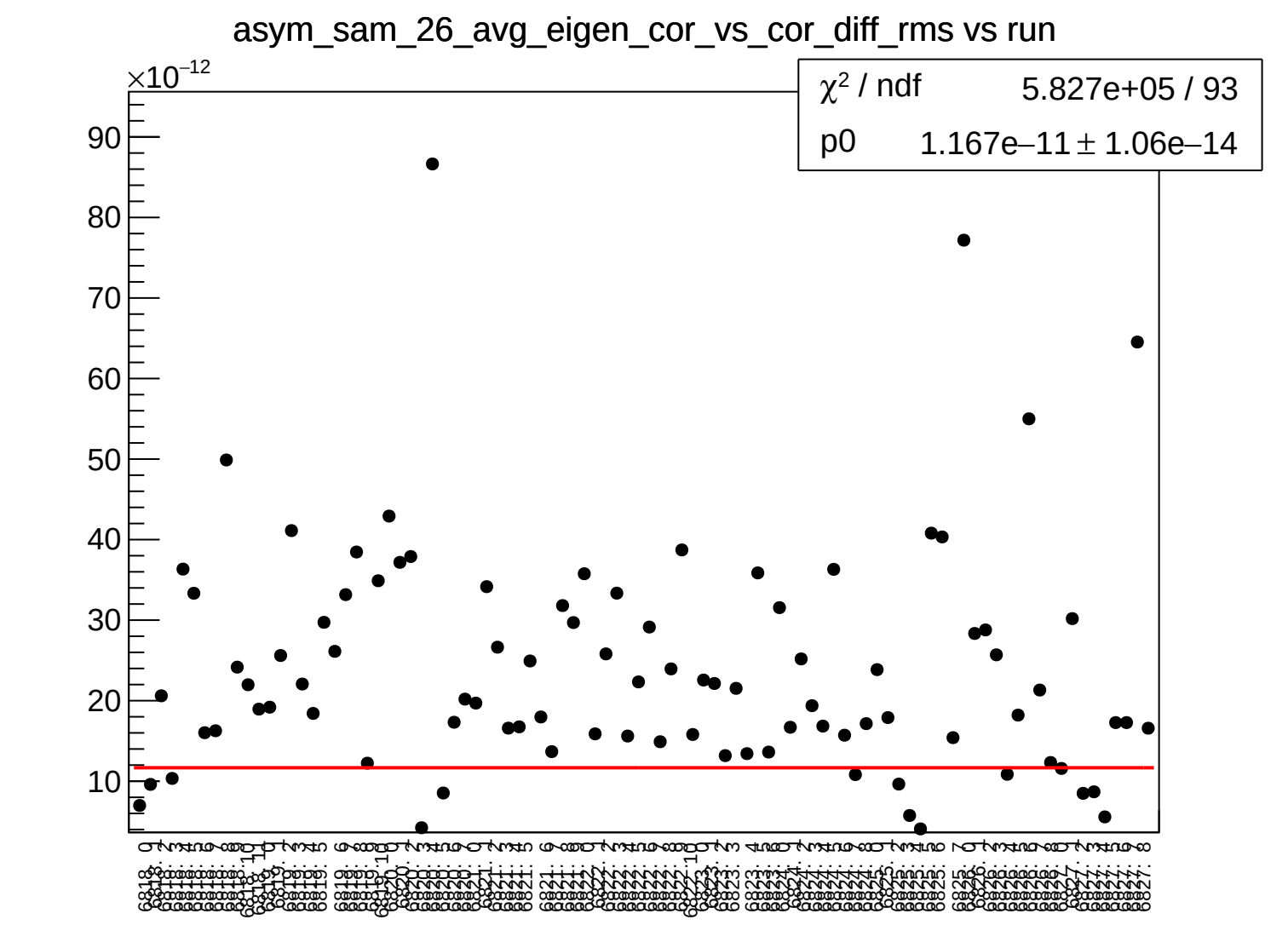

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.22e+04 / 93
p0 65.16 ± 0.04894
100
95
90
85
80
75
70
65
60
55

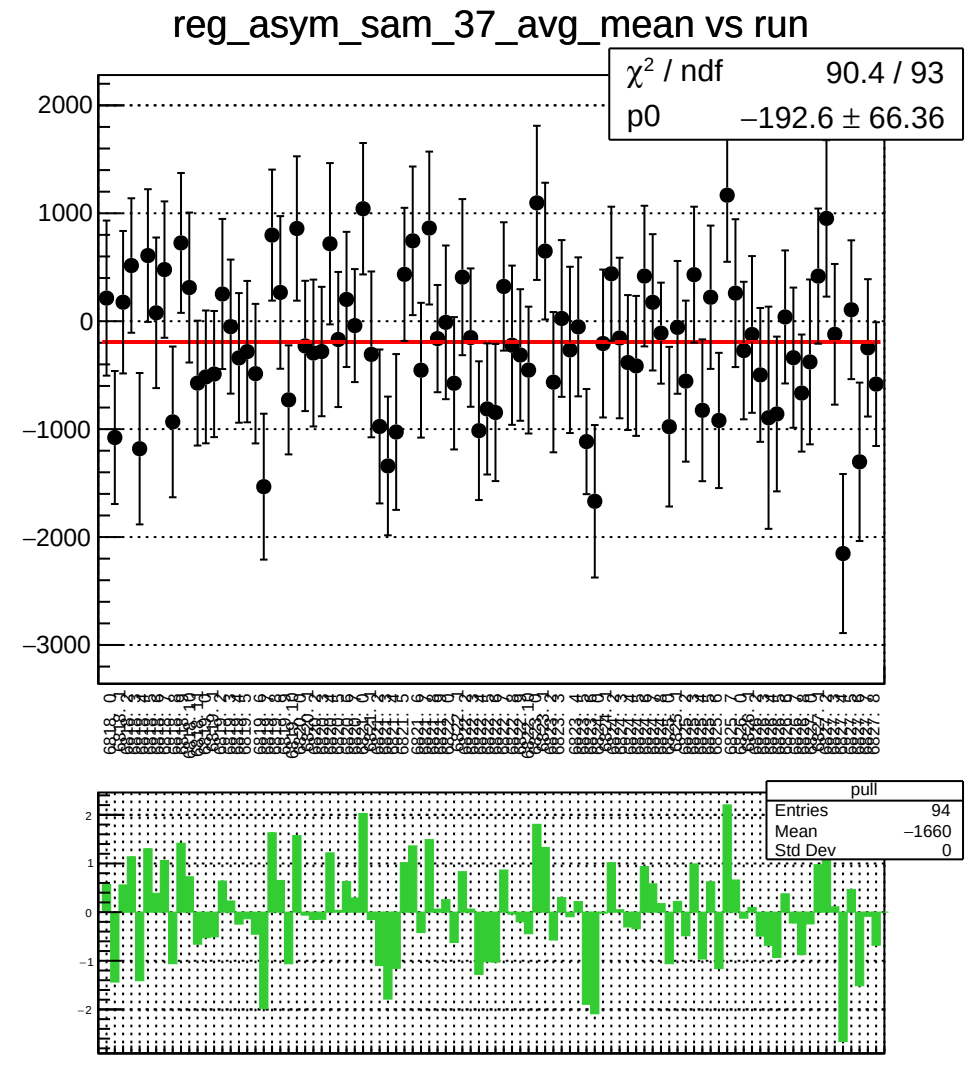

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 93
p0 −0.01037 ± 0.06921
pull
Entries 94
Mean −732.9
Std Dev 0
pull1D
Entries 94
Mean 0.003558
Std Dev 0.9148

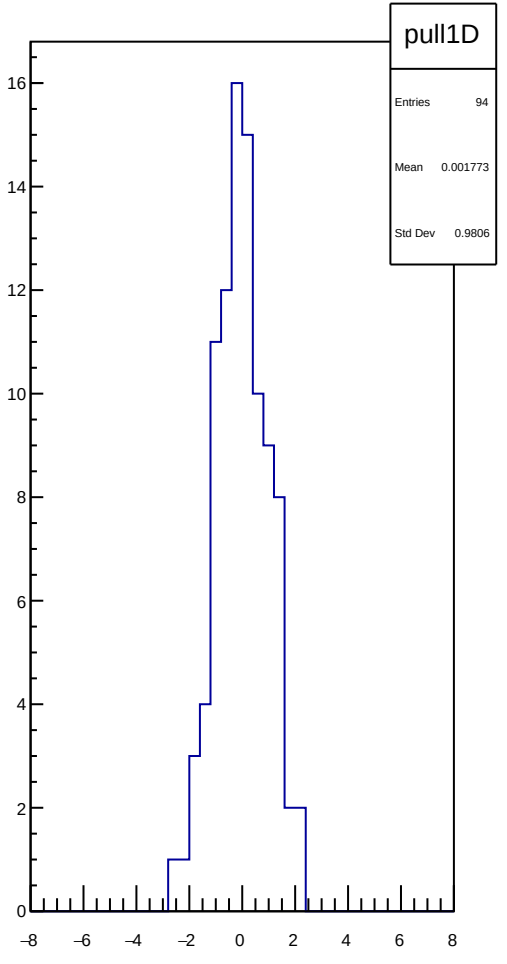

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.22e+04 / 93
p0 65.16 ± 0.04894
100
95
90
85
80
75
70
65
60
55

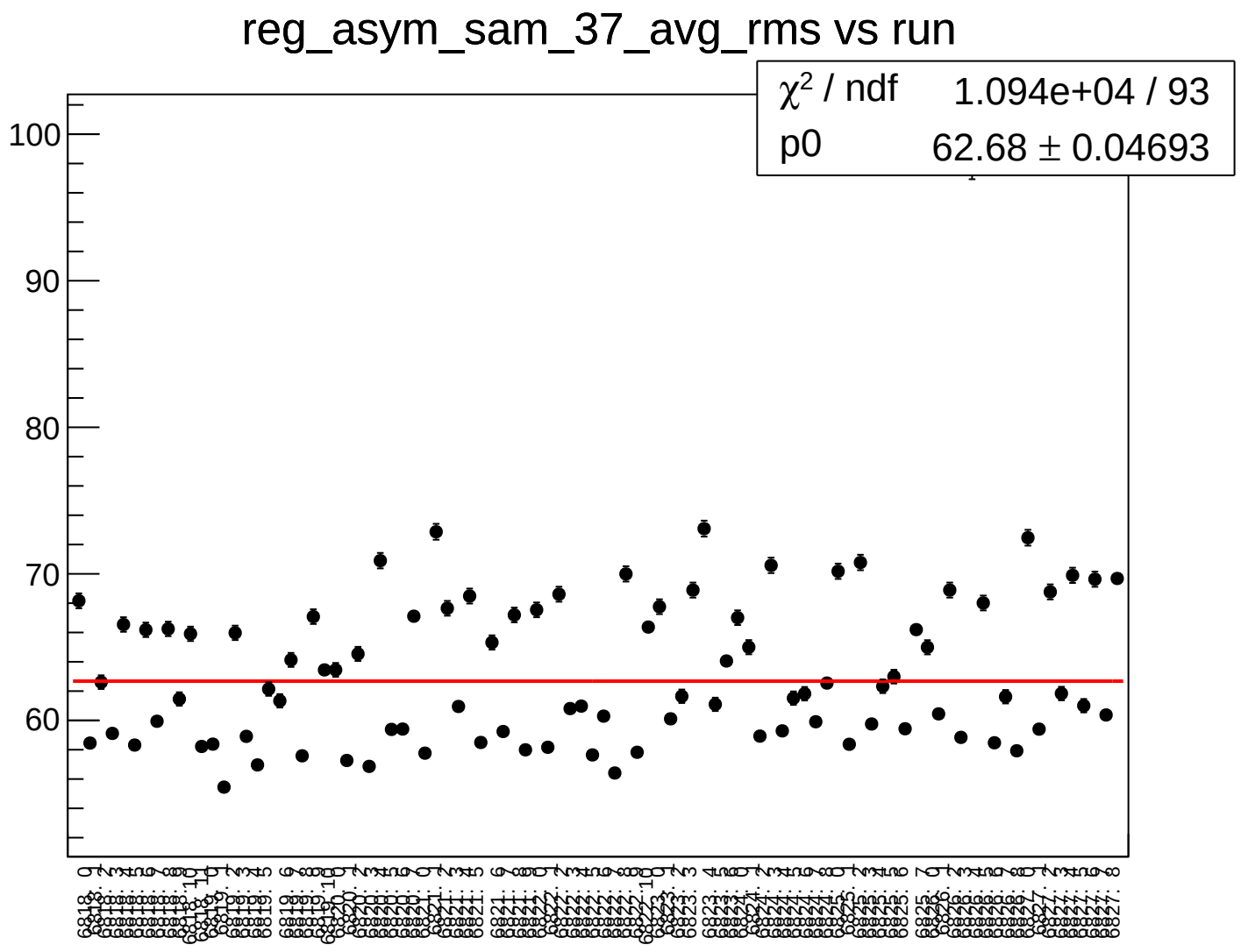

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.48 / 93
p0 −1.485e−14 ± 1.499e−14
pull
Entries 94
Mean 10.54
Std Dev 0

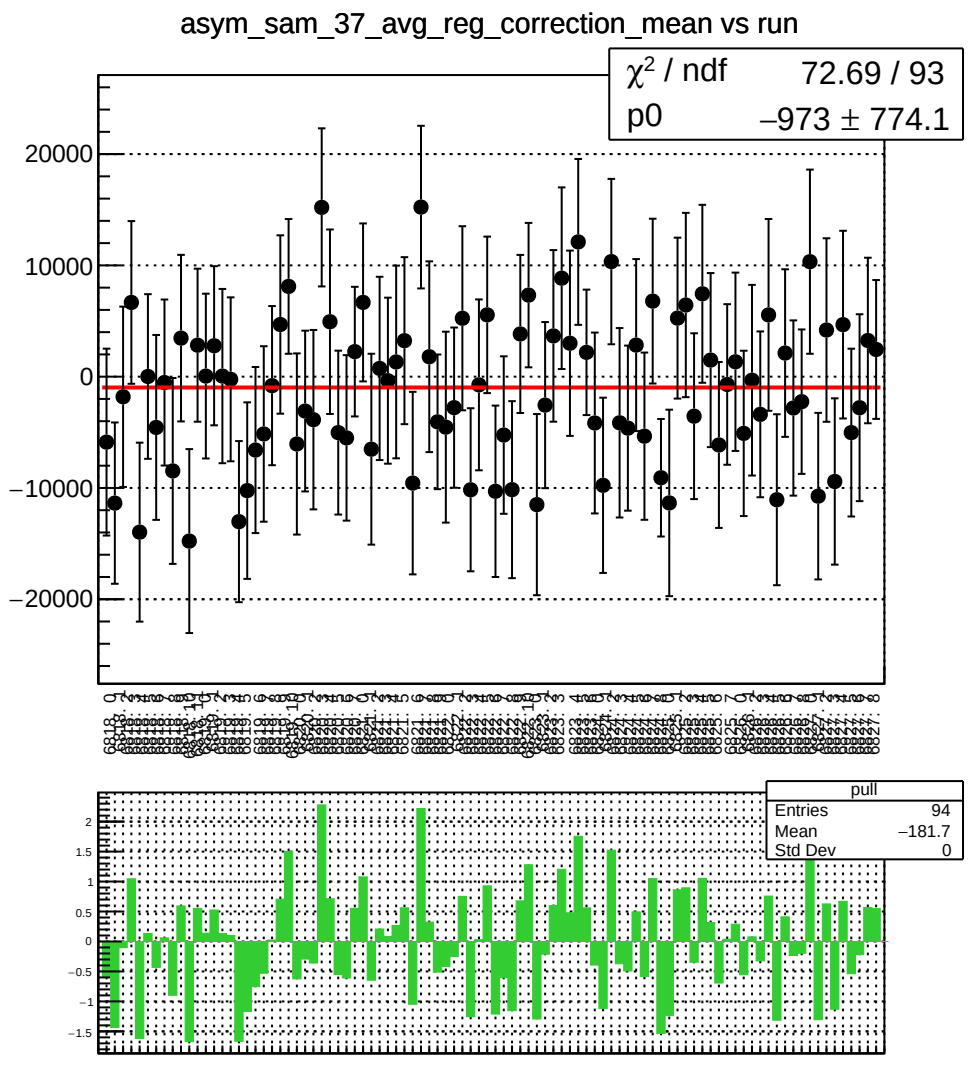

pull1D
Entries 94
Mean 0.03317
Std Dev 1.013

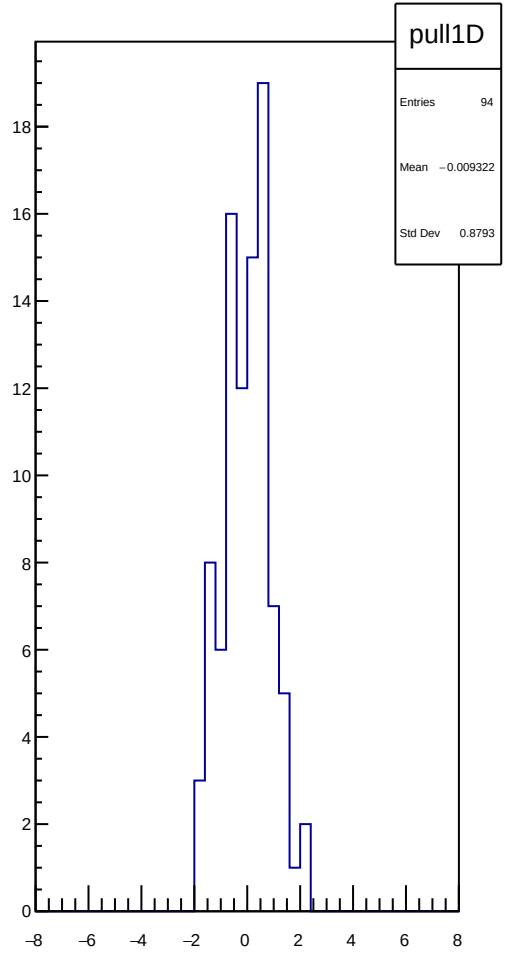

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.827e+05 / 93
p0 1.167e−11 ± 1.06e−14
90
80
70
60
50
40
30
20
10

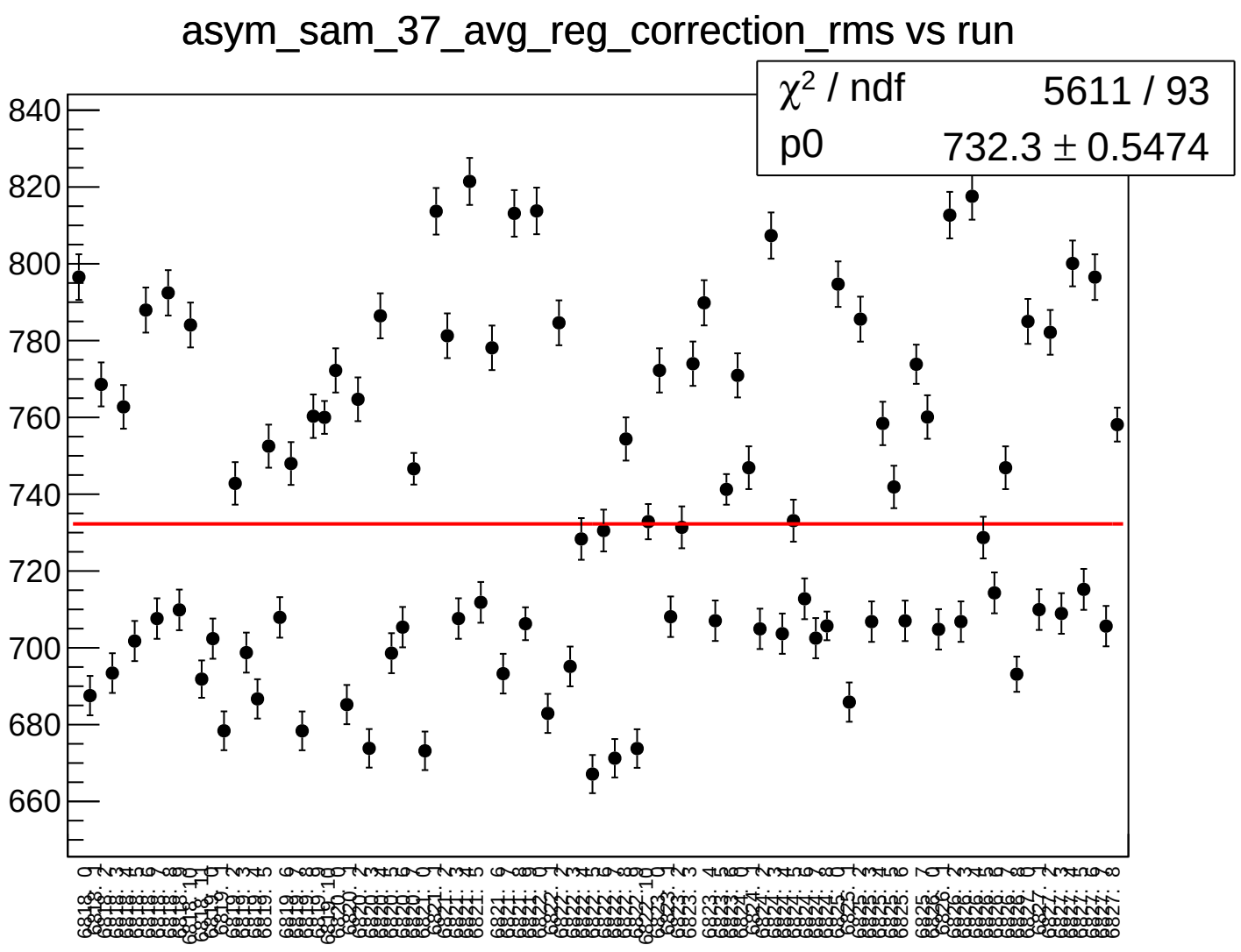

reg_asym_sam_37_avg_mean vs run
χ² / ndf 90.4 / 93
p0 −192.6 ± 66.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1660
Std Dev 0
2
1
0
−1
−2

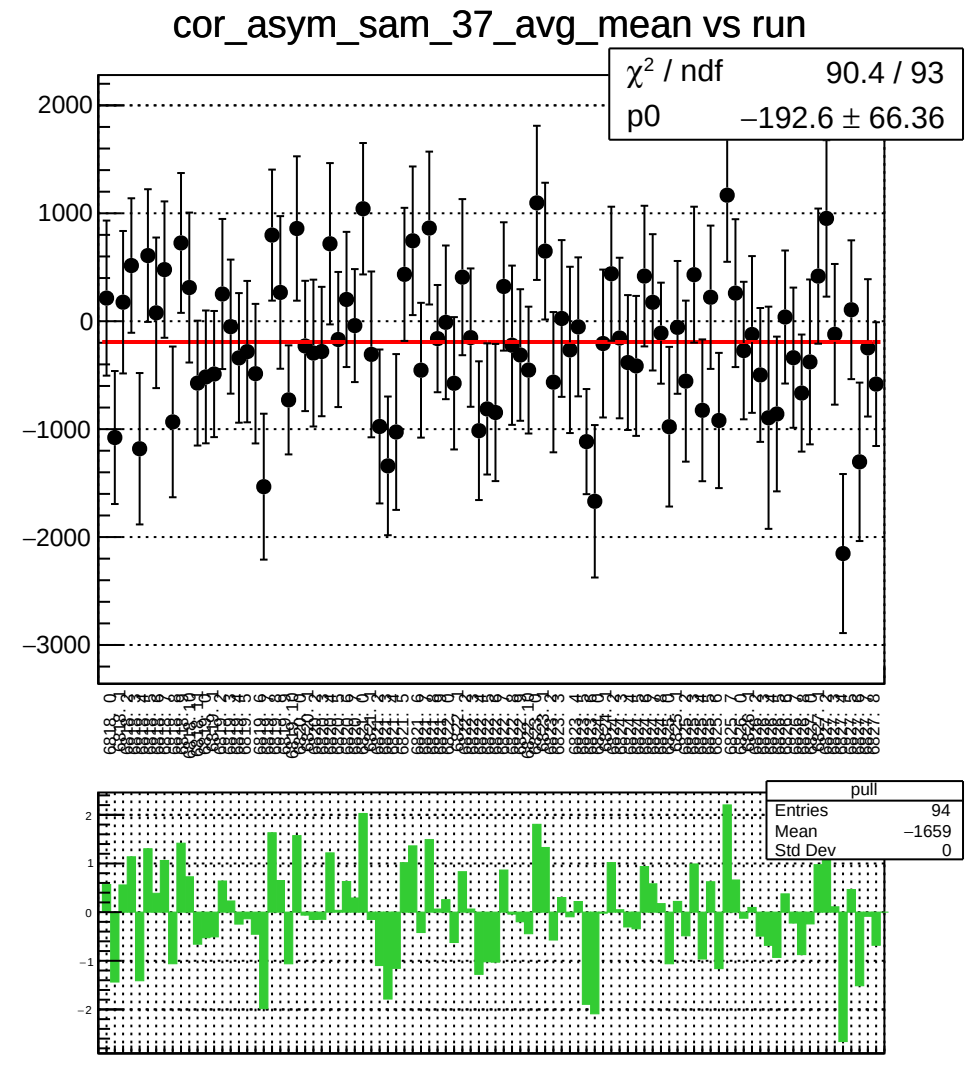

pull1D
Entries 94
Mean 0.001773
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

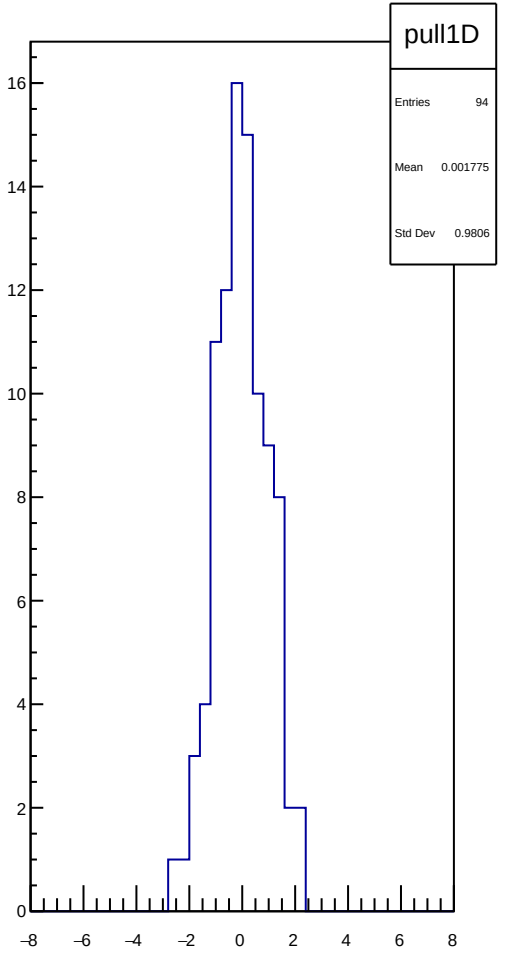

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.094e+04 / 93
p0 62.68 ± 0.04693
100
90
80
70
60

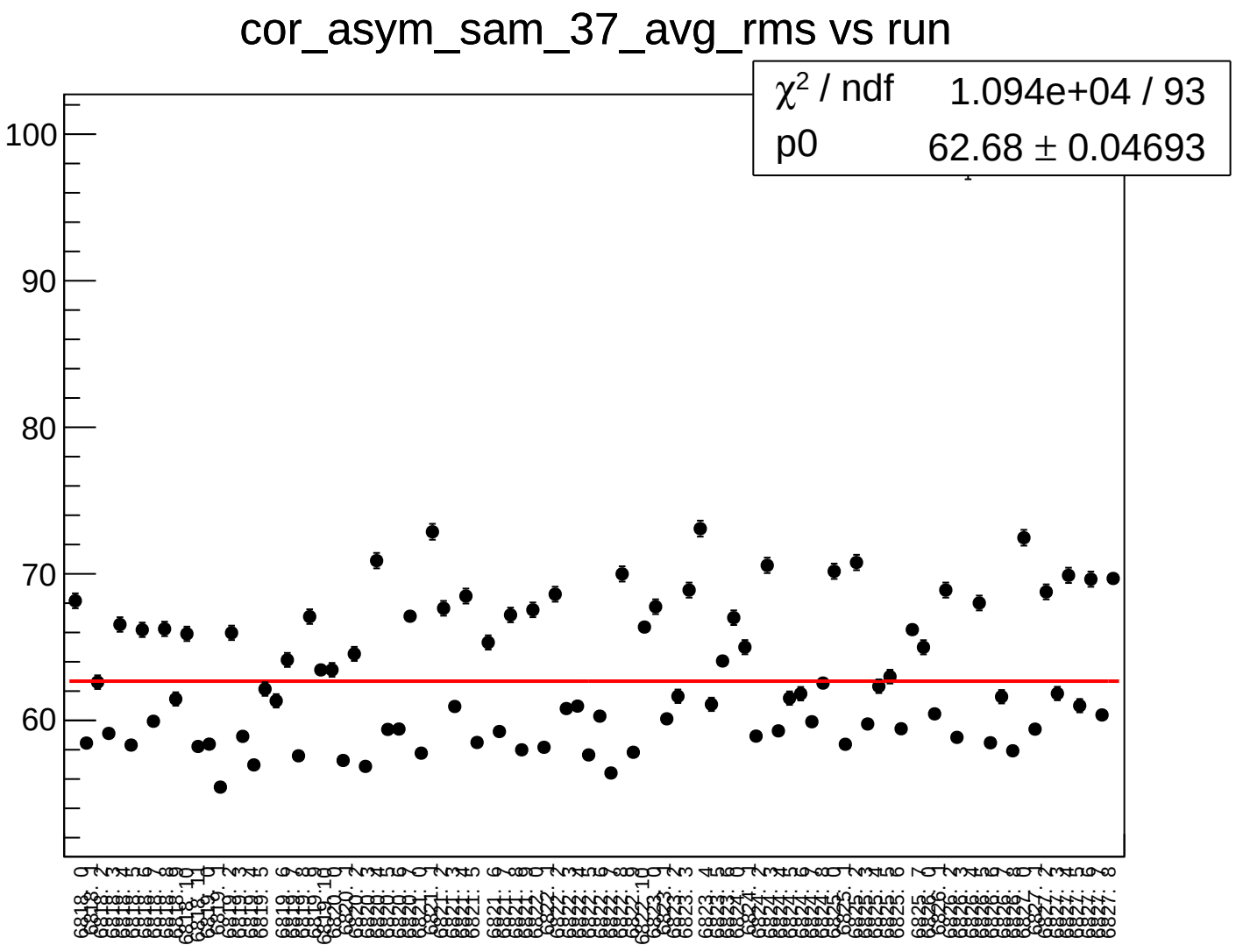

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 72.69 / 93
p0 −973 ± 774.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −181.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

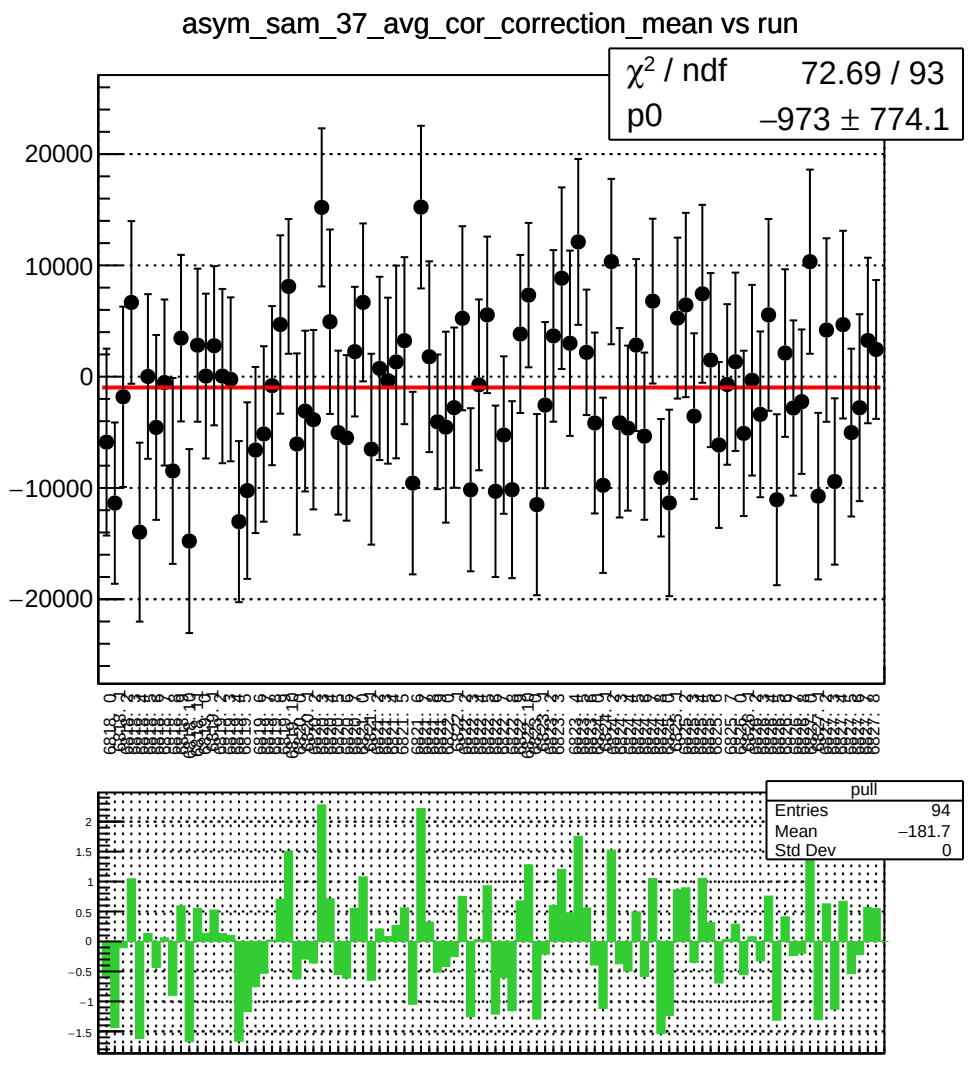

pull1D
Entries 94
Mean −0.009322
Std Dev 0.8793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

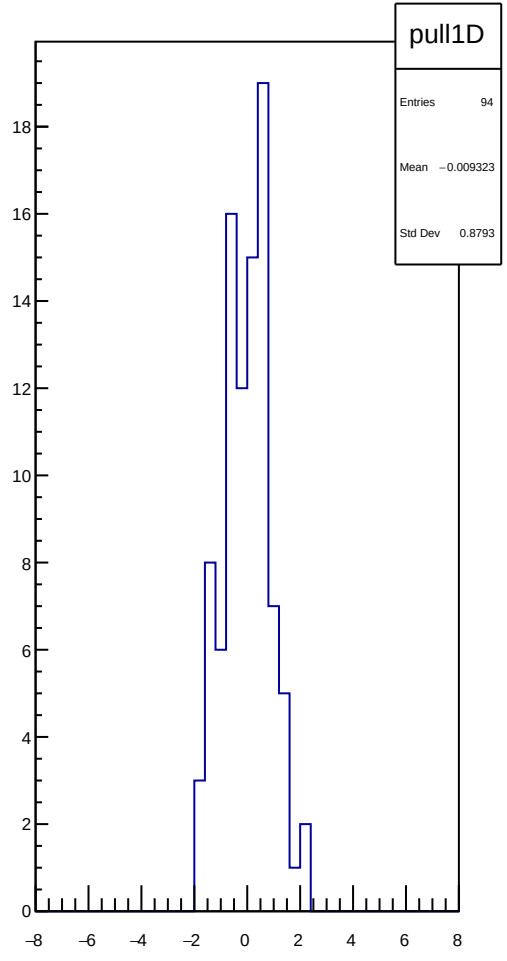

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 5611 / 93
p0 732.3 ± 0.5474
840
820
800
780
760
740
720
700
680
660

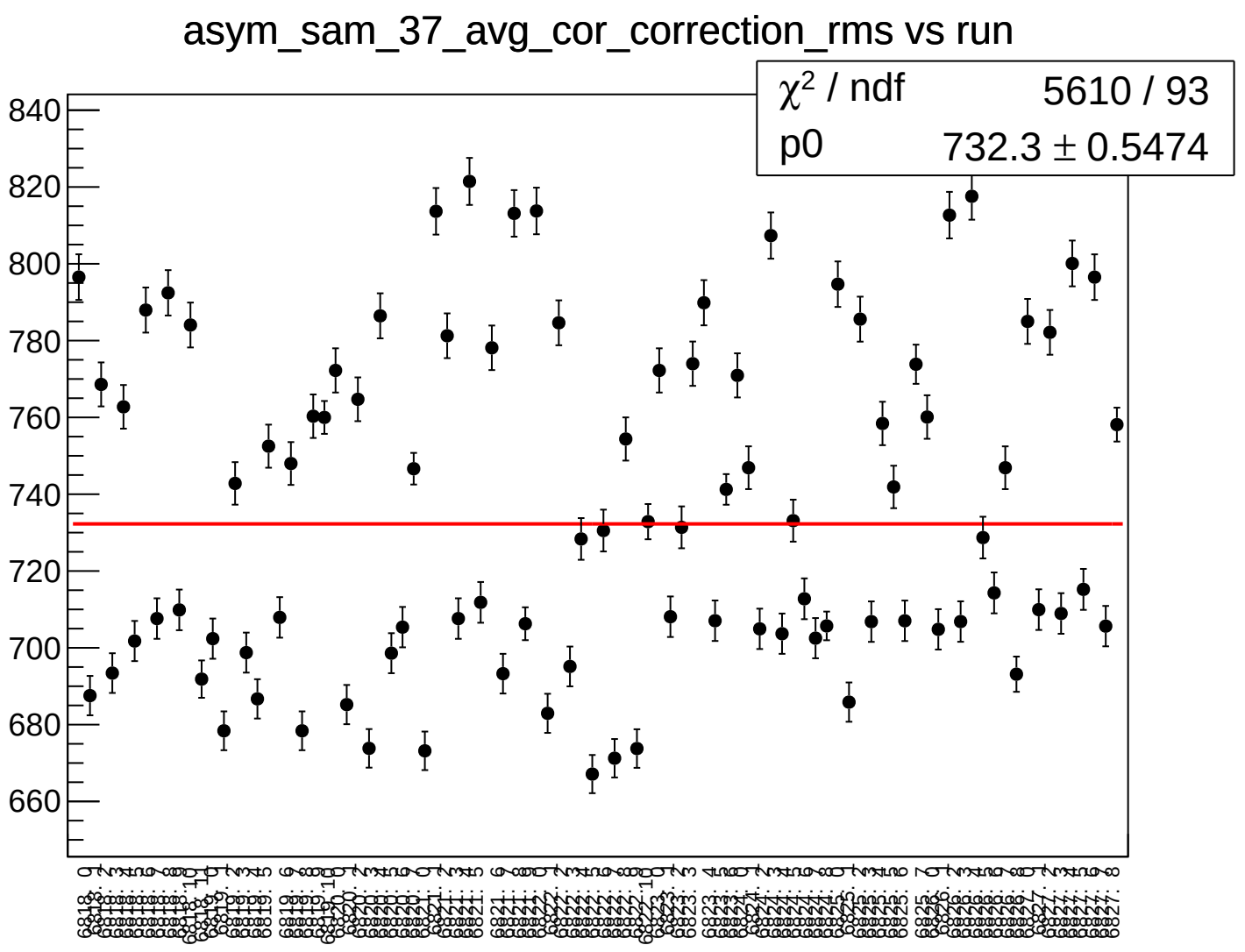

cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.4 / 93
p0 −192.6 ± 66.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1659
Std Dev 0
2
1
0
−1
−2

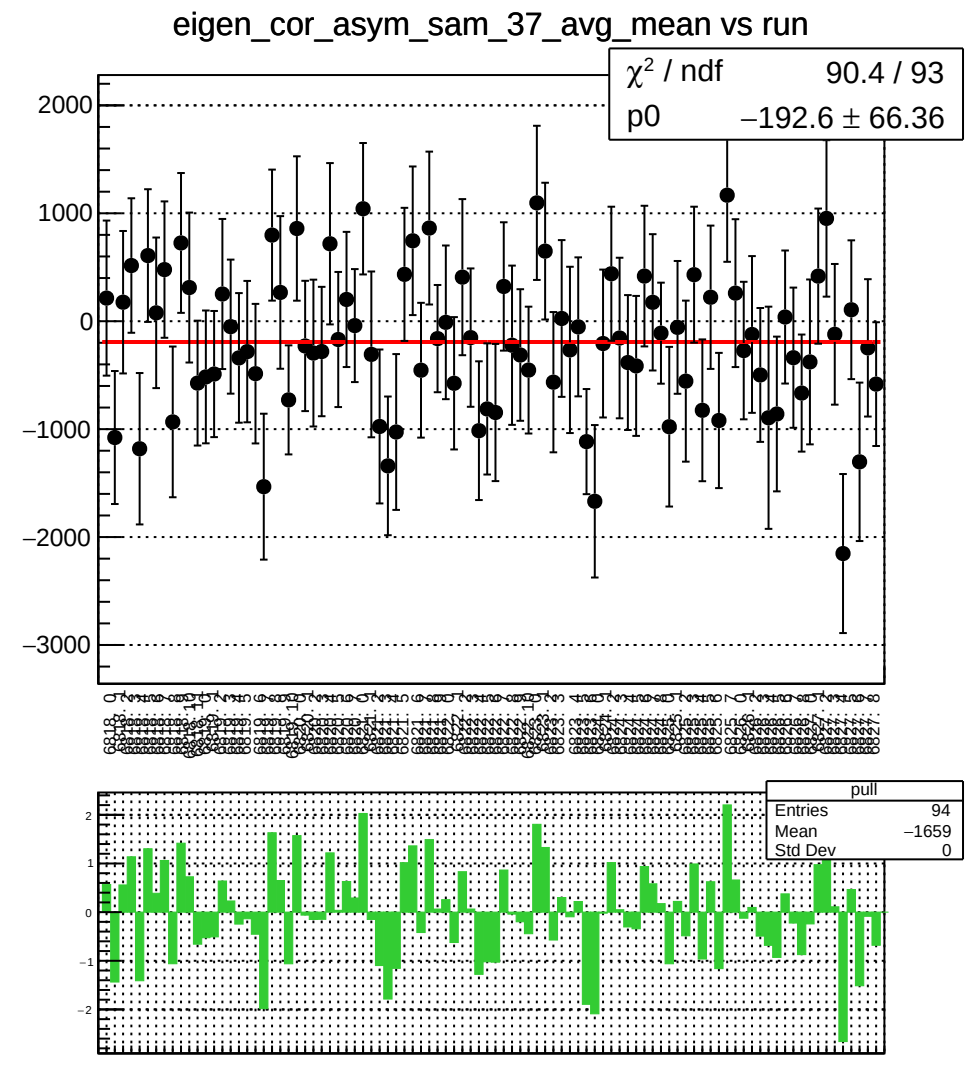

pull1D
Entries 94
Mean 0.001775
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

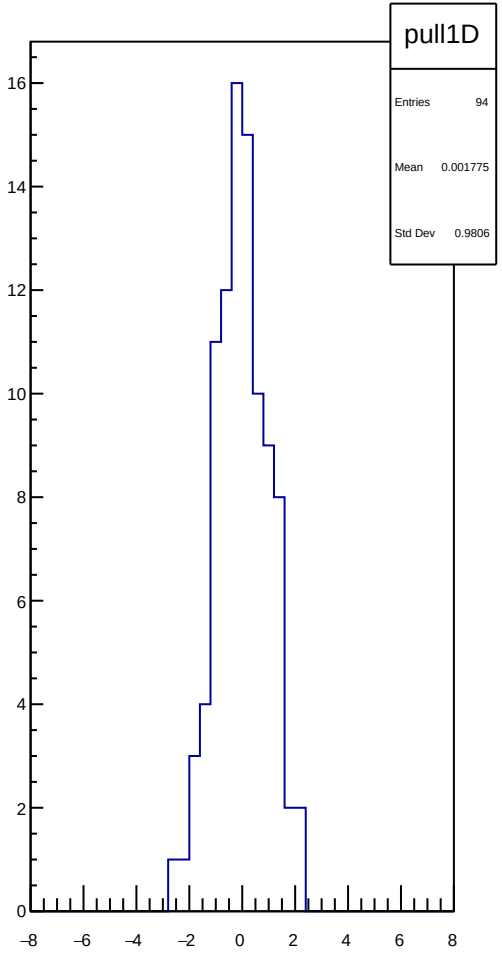

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 1.094e+04 / 93
p0 62.68 ± 0.04693
100
90
80
70
60

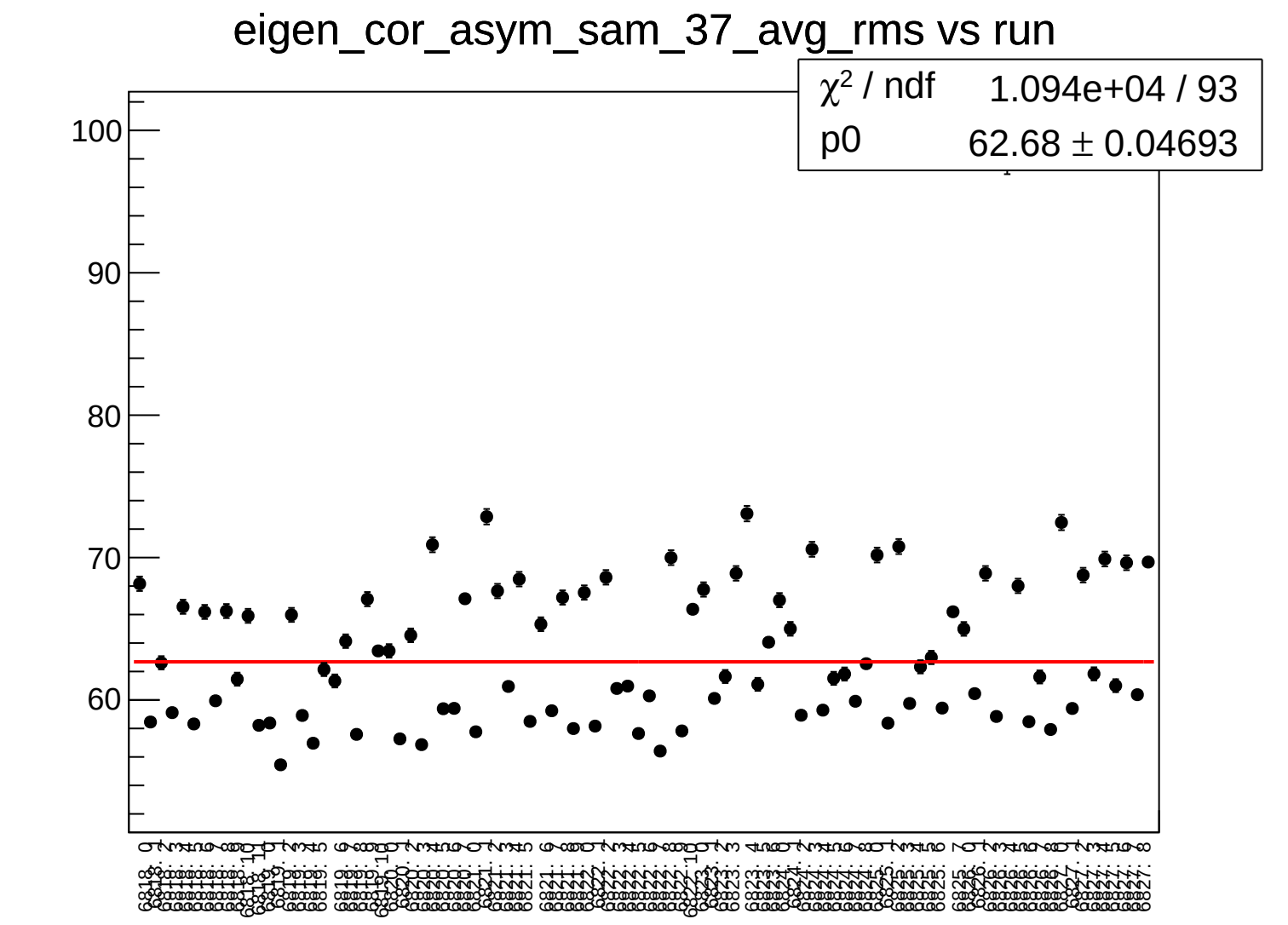

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 72.69 / 93
p0 −973 ± 774.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −181.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

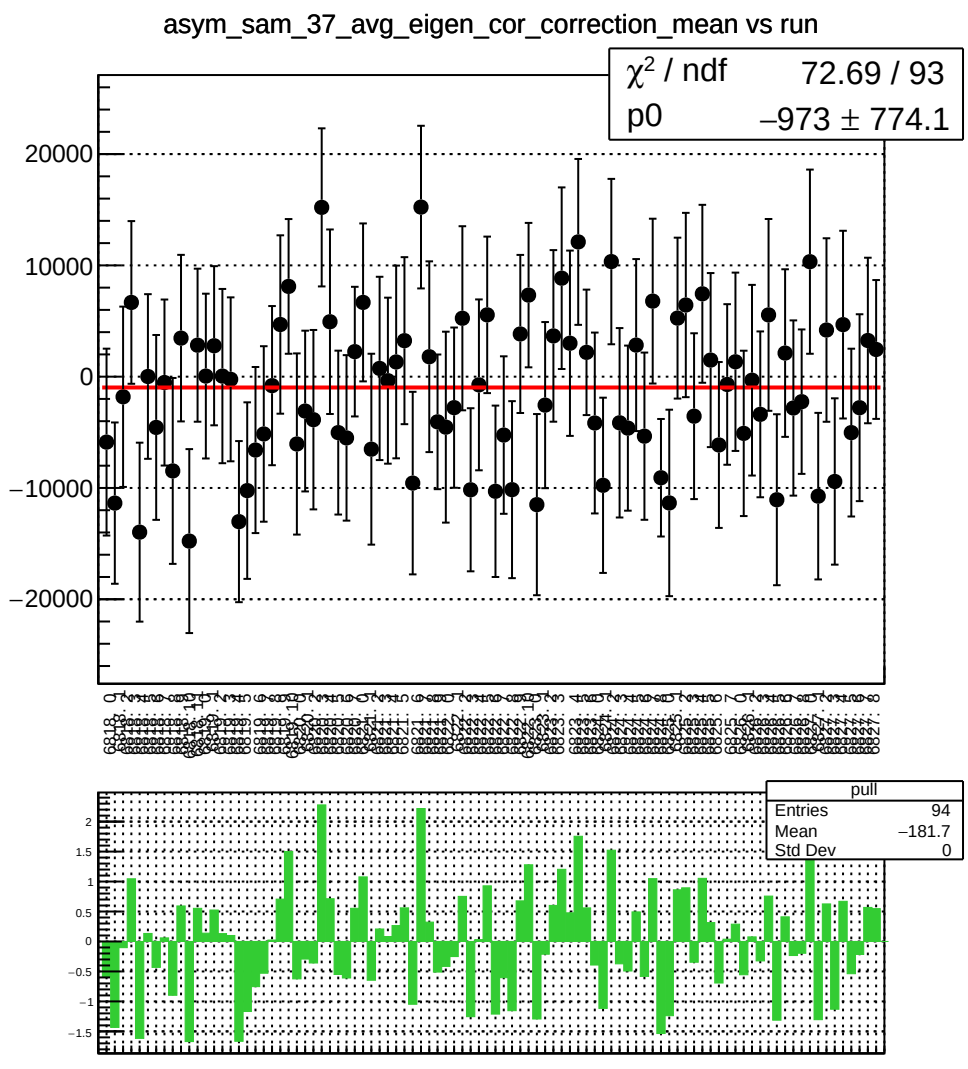

pull1D
Entries 94
Mean −0.009323
Std Dev 0.8793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

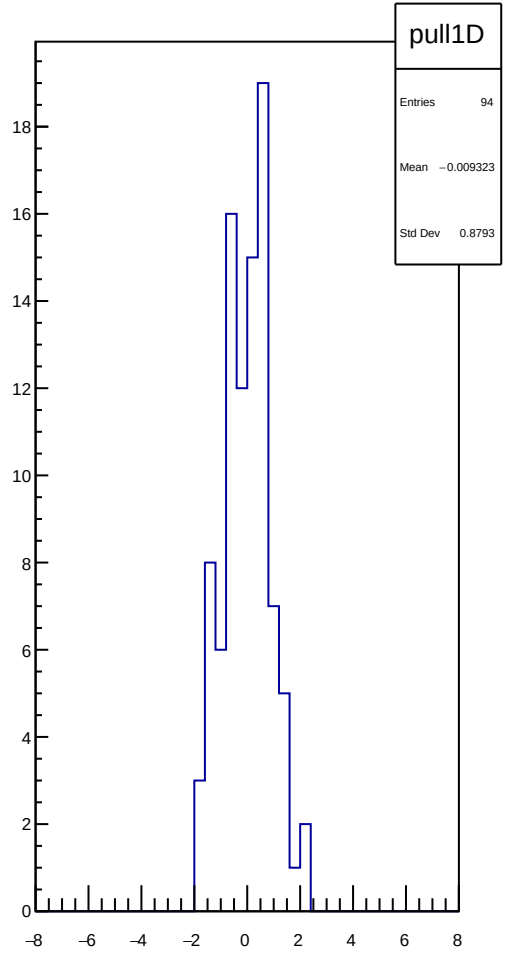

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 5610 / 93
p0 732.3 ± 0.5474
840
820
800
780
760
740
720
700
680
660

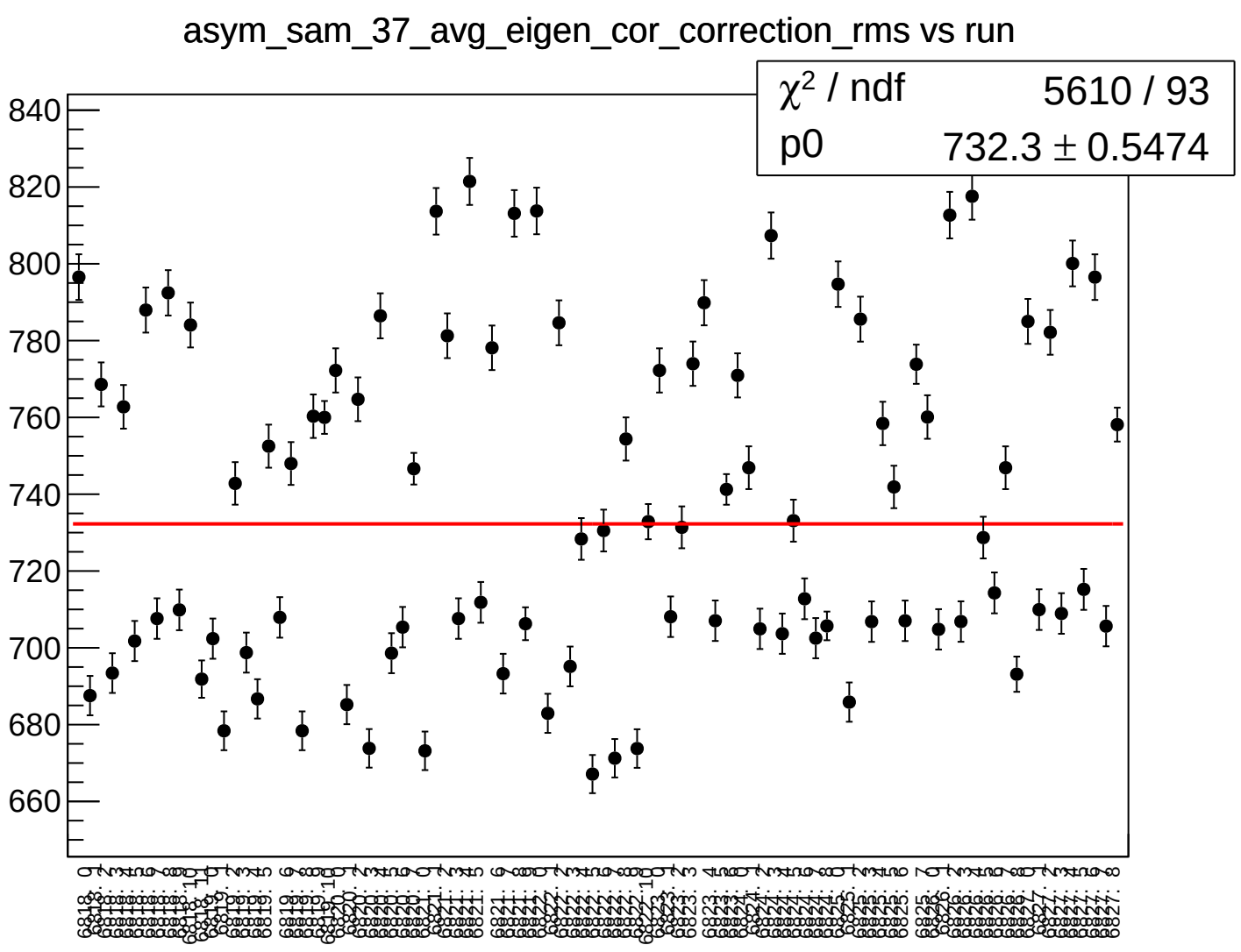

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 90.4 / 93
p0 −192.6 ± 66.36
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean −1659
Std Dev 0
2
1
0
−1

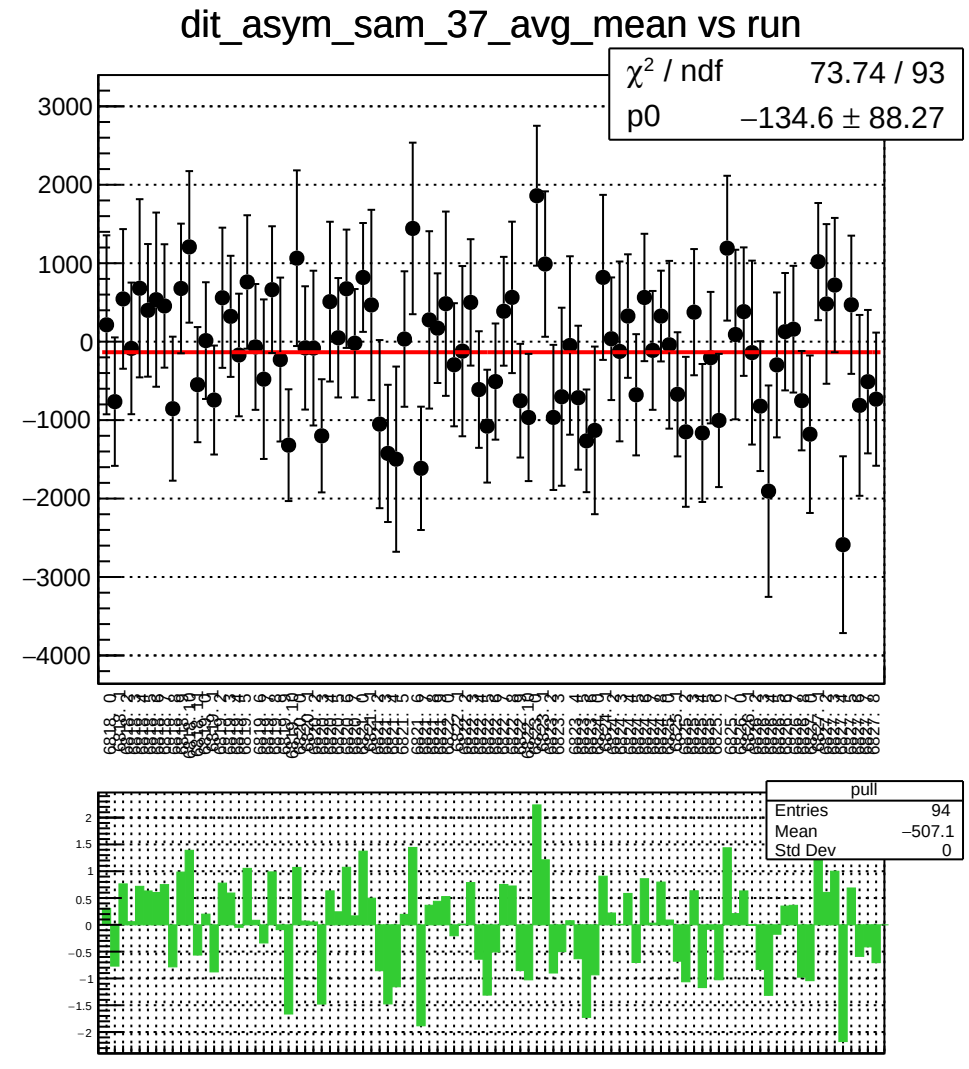

pull1D
Entries 94
Mean 0.001775
Std Dev 0.9806
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

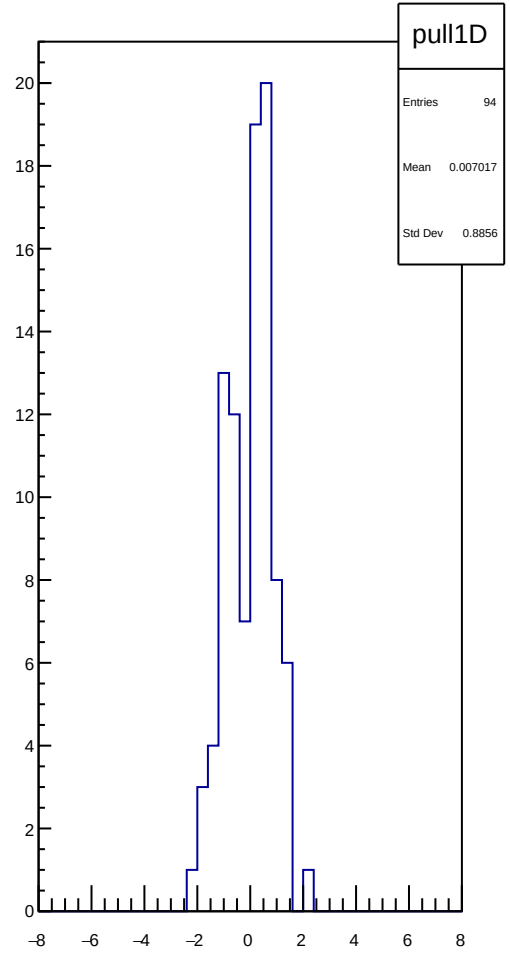

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 1.094e+04 / 93
p0 62.68 ± 0.04693
100
90
80
70
60

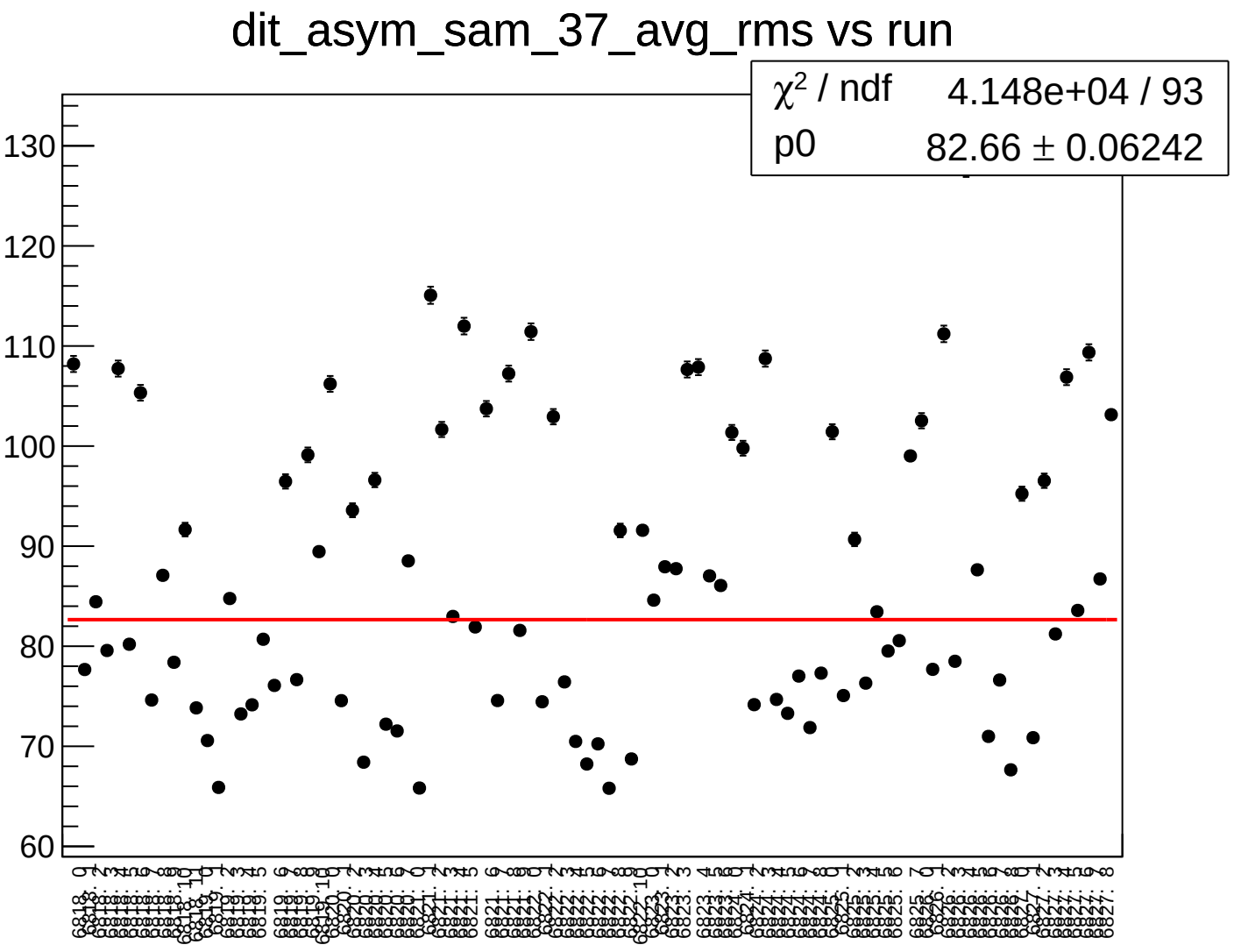

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.69 / 93
p0 −973 ± 774.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −181.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

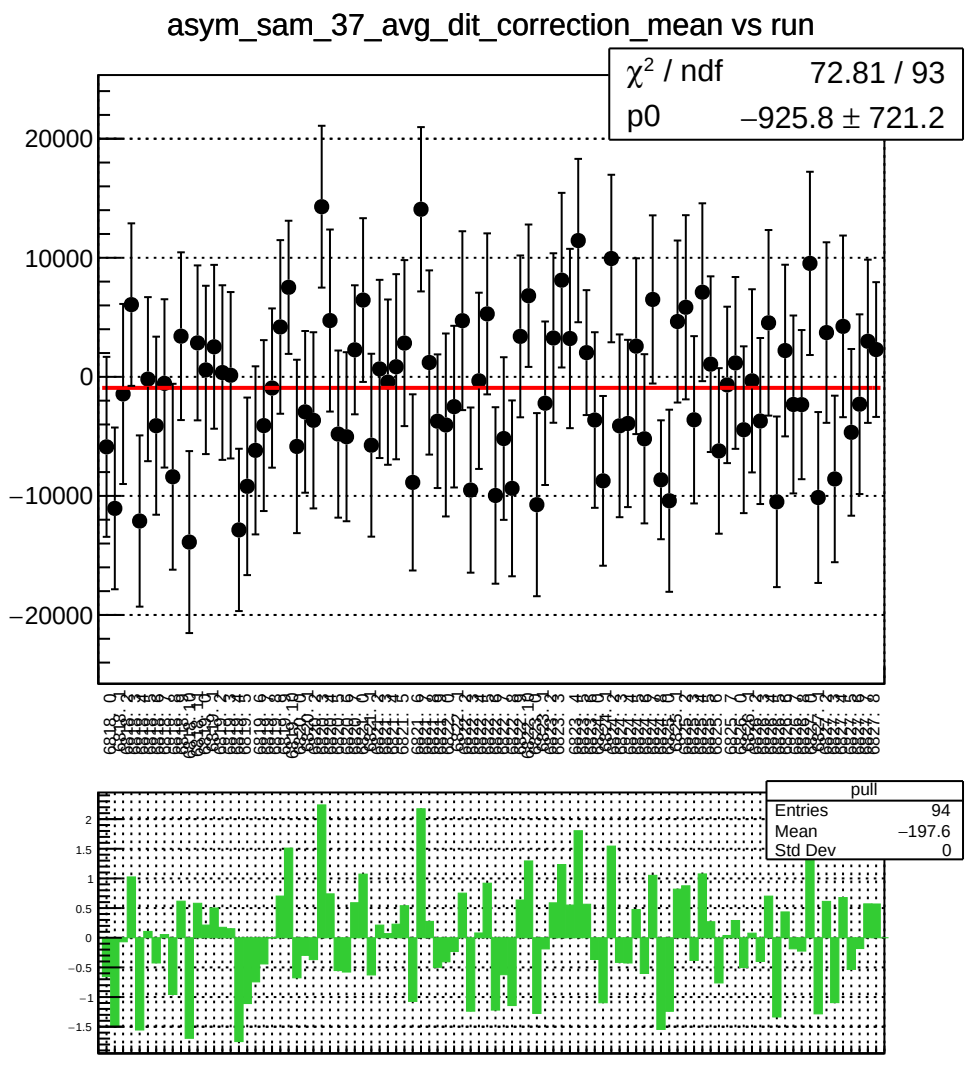

pull1D
Entries 94
Mean −0.009323
Std Dev 0.8793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

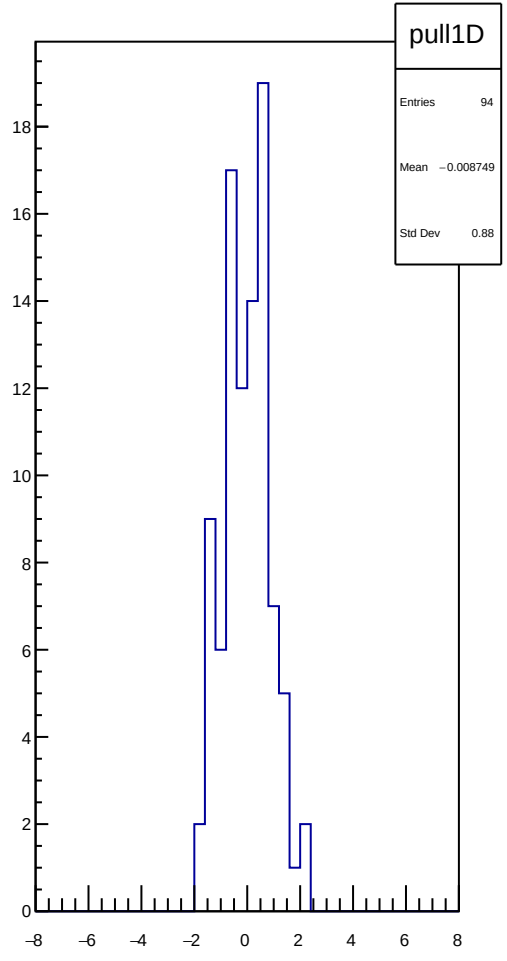

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 5610 / 93
p0 732.3 ± 0.5474
840
820
800
780
760
740
720
700
680
660

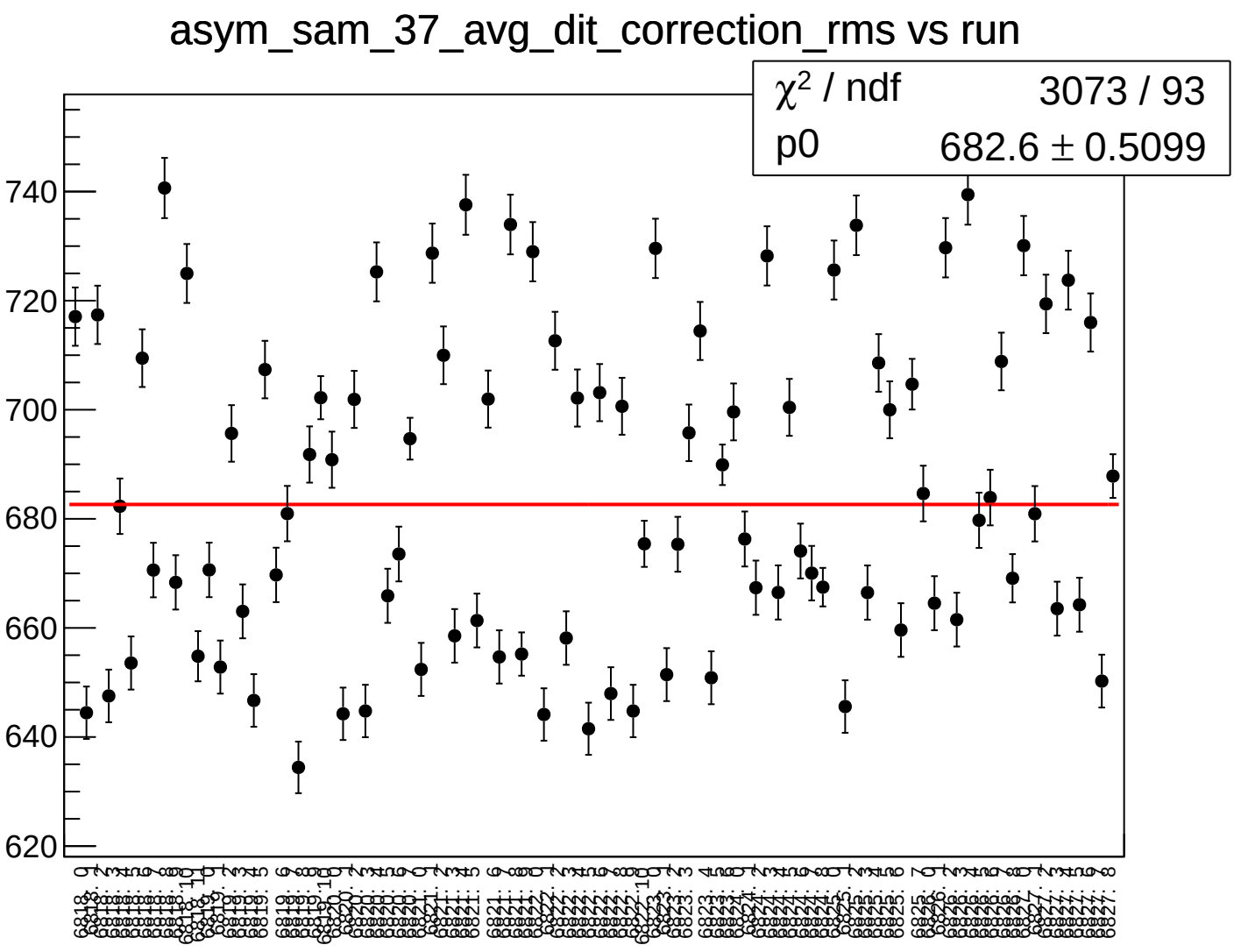

dit_asym_sam_37_avg_mean vs run
χ² / ndf 73.74 / 93
p0 −134.6 ± 88.27
pull
Entries 94
Mean −507.1
Std Dev 0

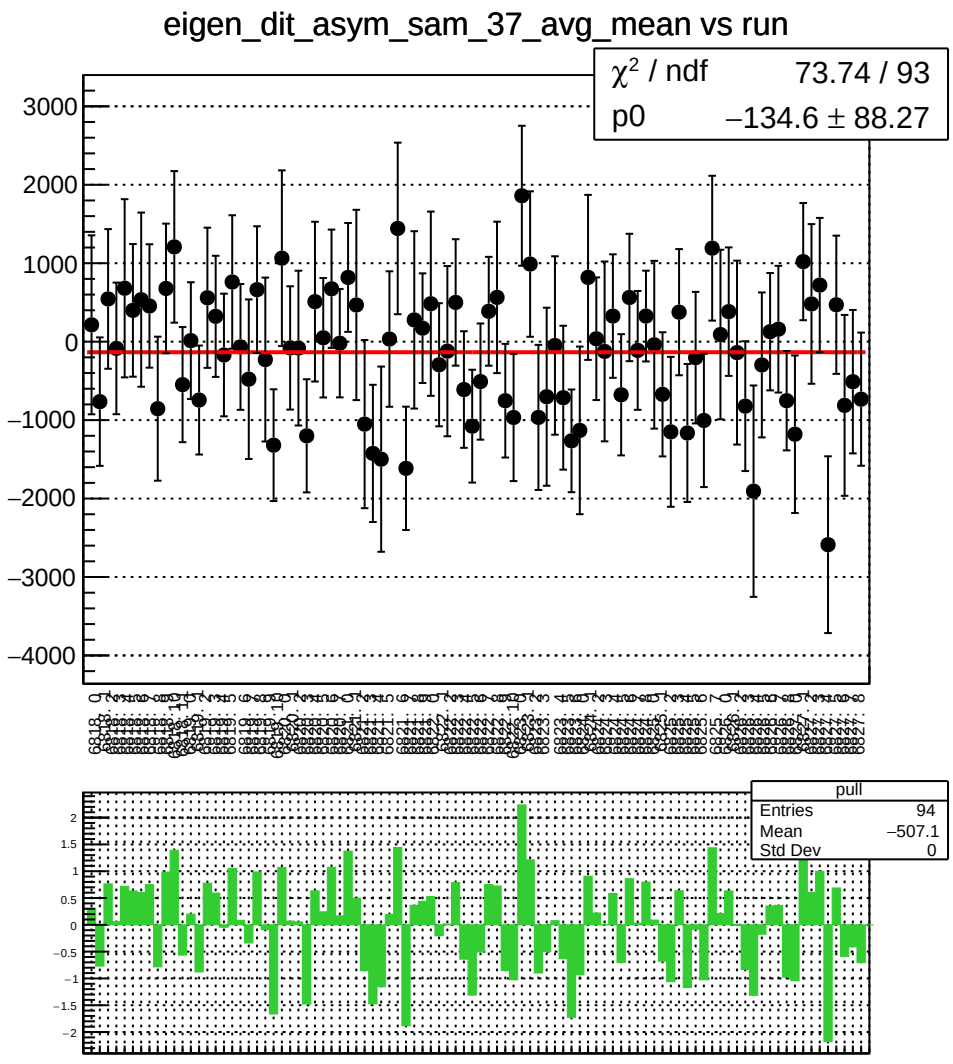

pull1D
Entries 94
Mean 0.007017
Std Dev 0.8856

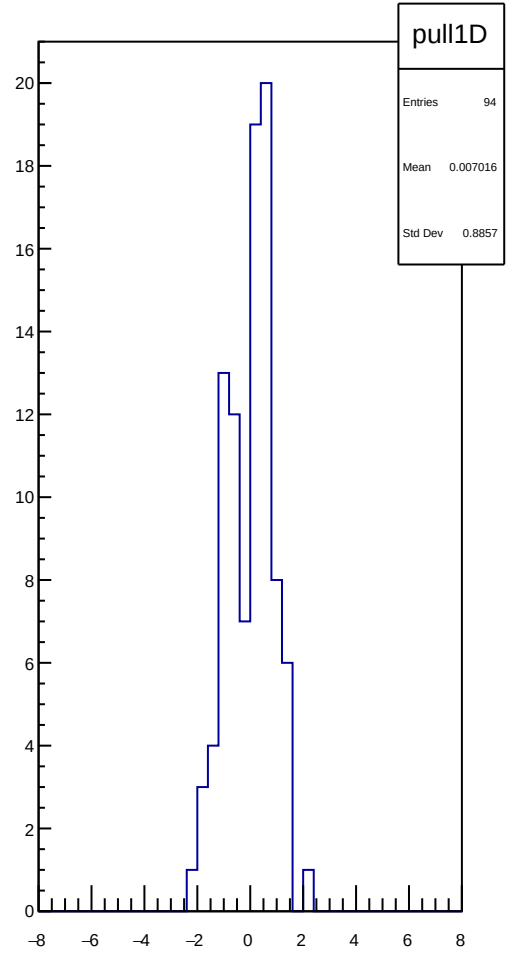

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 4.148e+04 / 93
p0 82.66 ± 0.06242
130
120
110
100
90
80
70
60

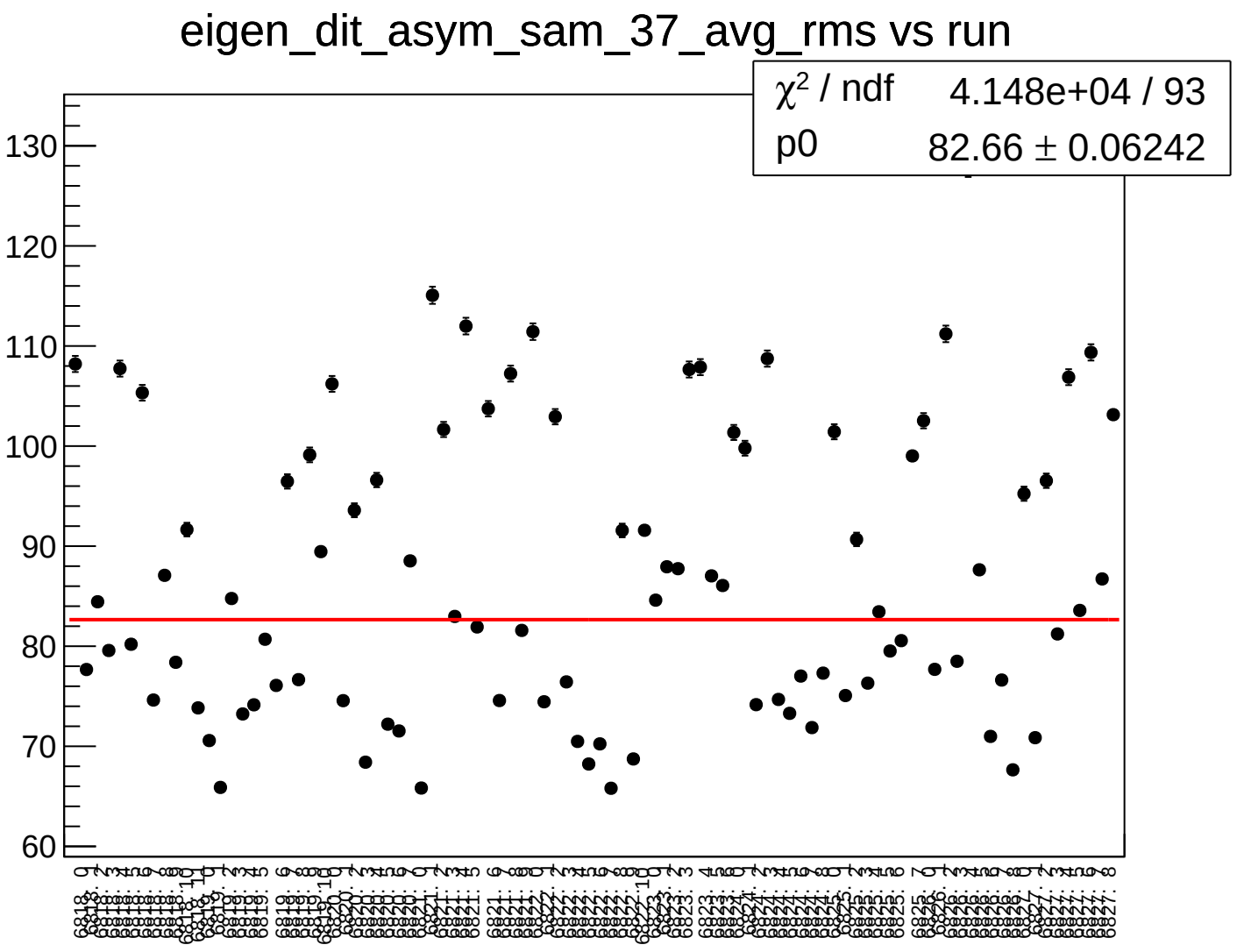

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 72.81 / 93
p0 −925.8 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −197.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

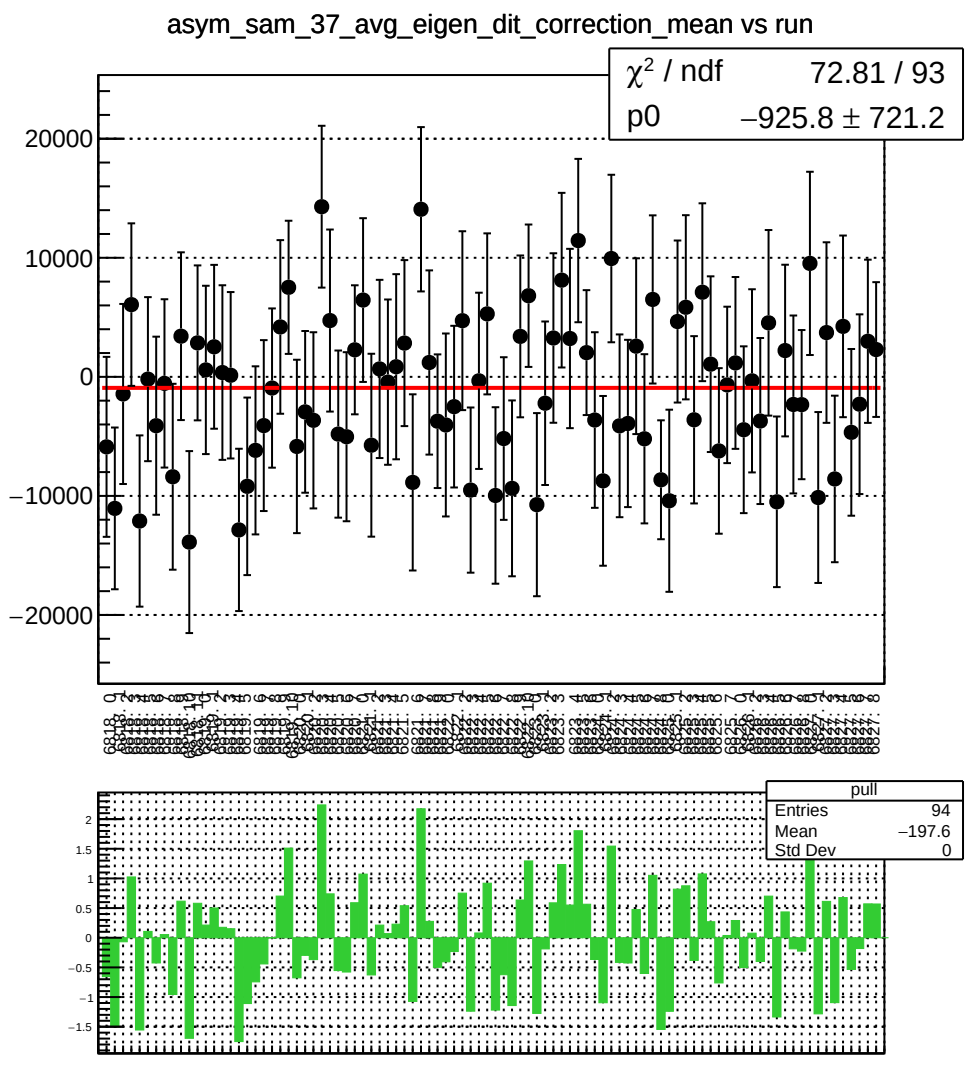

pull1D
Entries 94
Mean −0.008749
Std Dev 0.88
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

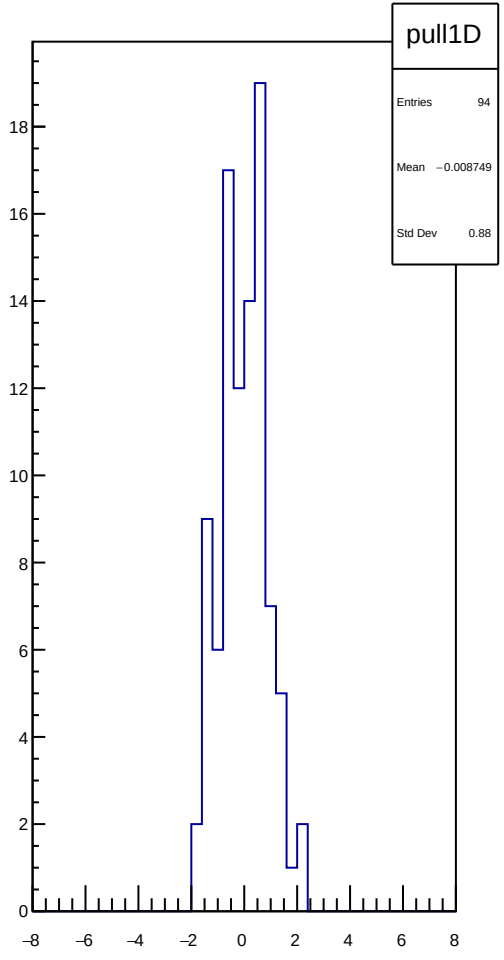

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3073 / 93
p0 682.6 ± 0.5099
740
720
700
680
660
640
620

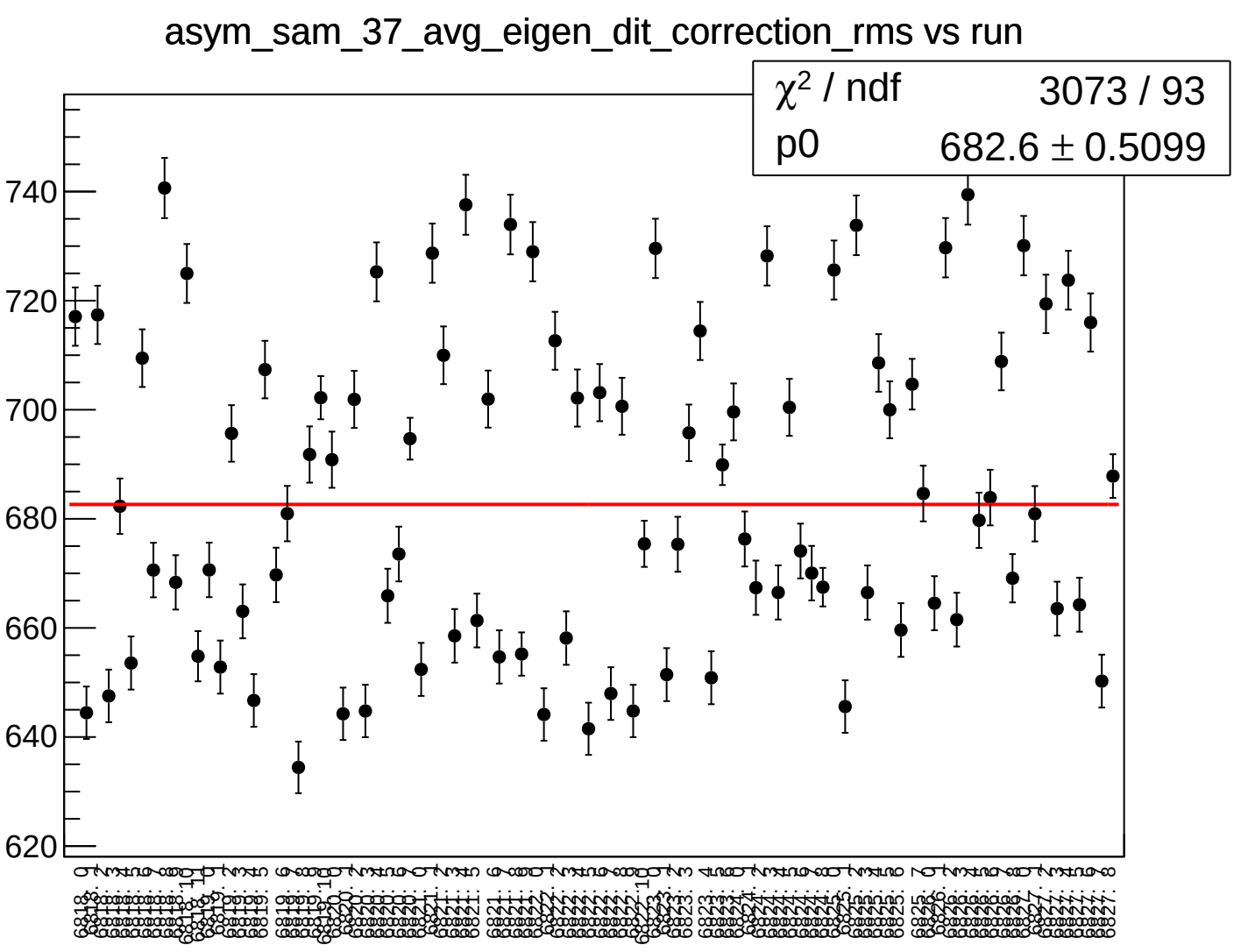

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 73.74 / 93
p0 −134.6 ± 88.27
pull
Entries 94
Mean −507.1
Std Dev 0

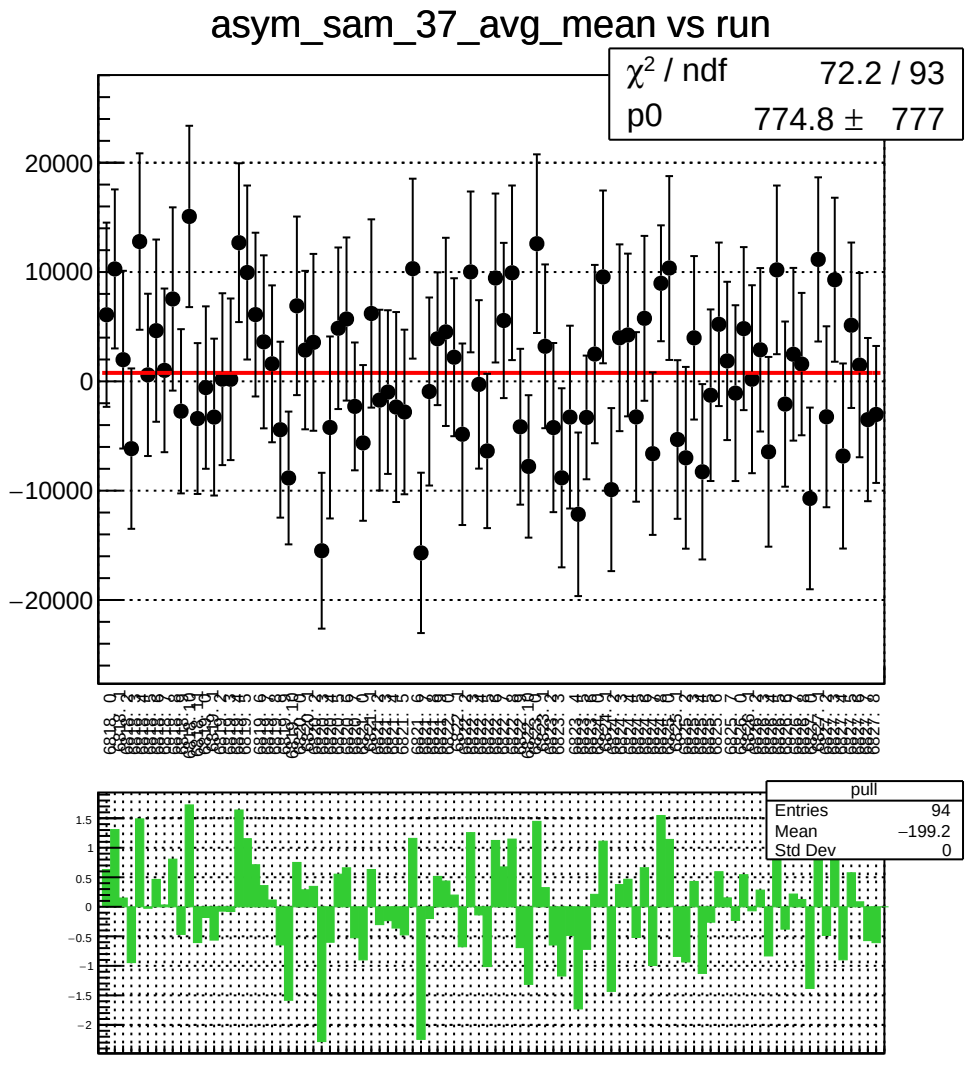

pull1D
Entries 94
Mean 0.007016
Std Dev 0.8857

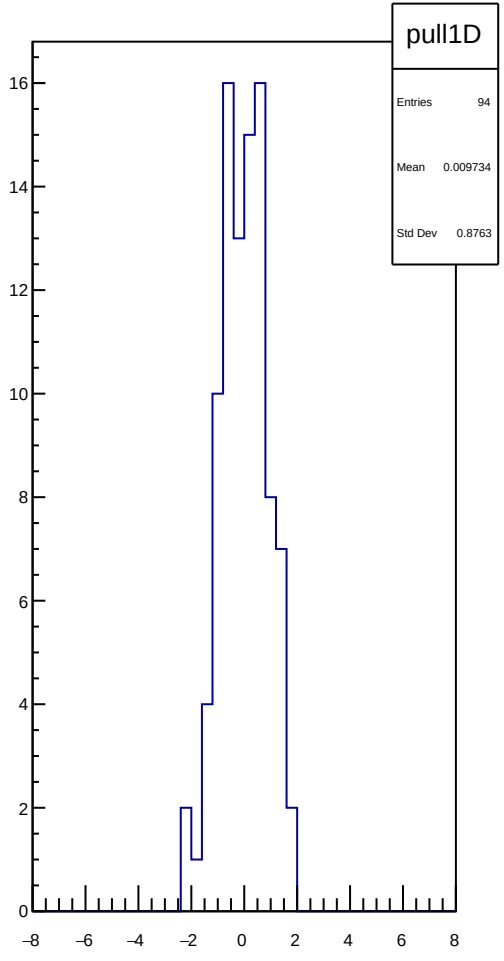

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 4.148e+04 / 93
p0 82.66 ± 0.06242
130
120
110
100
90
80
70
60

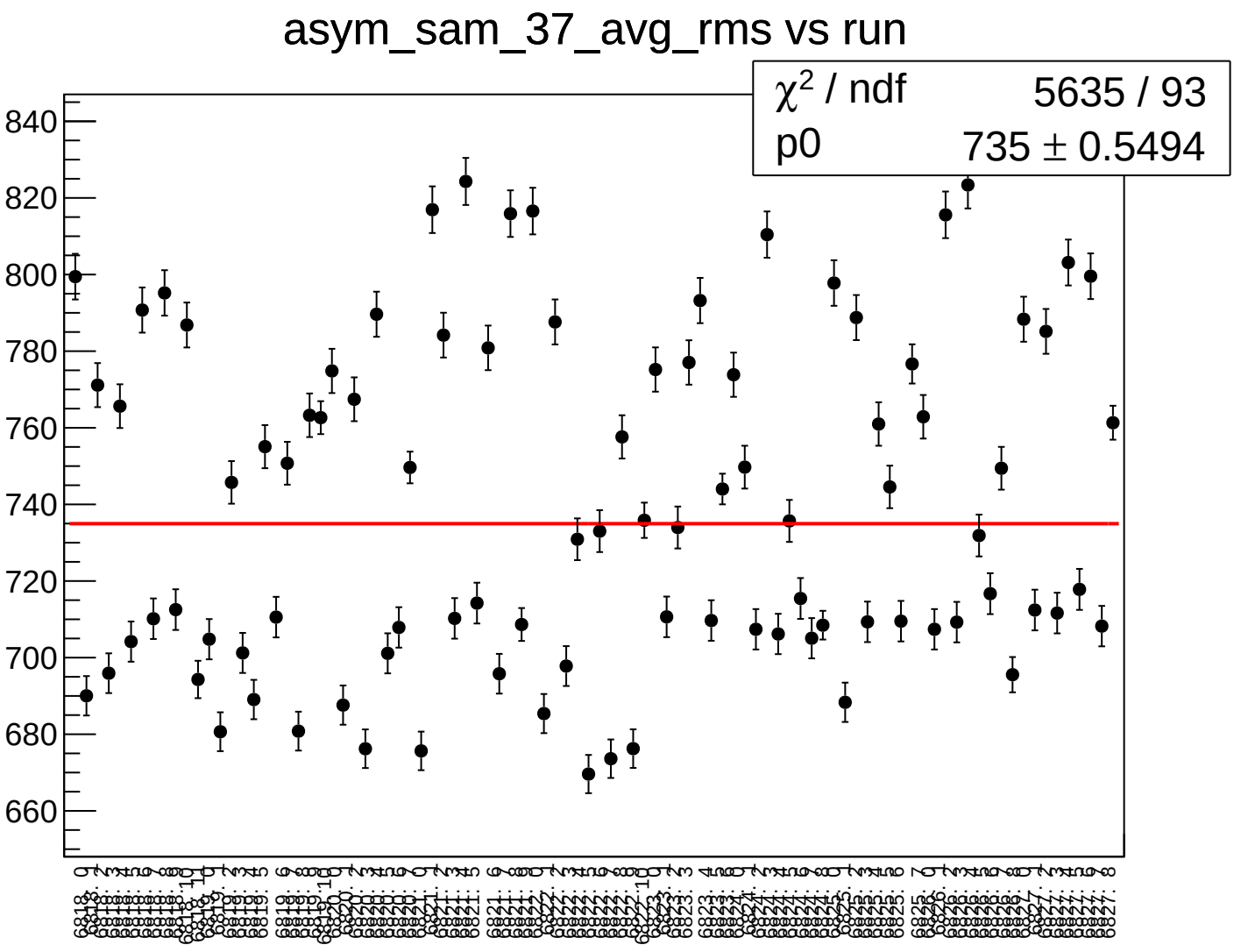

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.81 / 93
p0 −925.8 ± 721.2
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −197.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

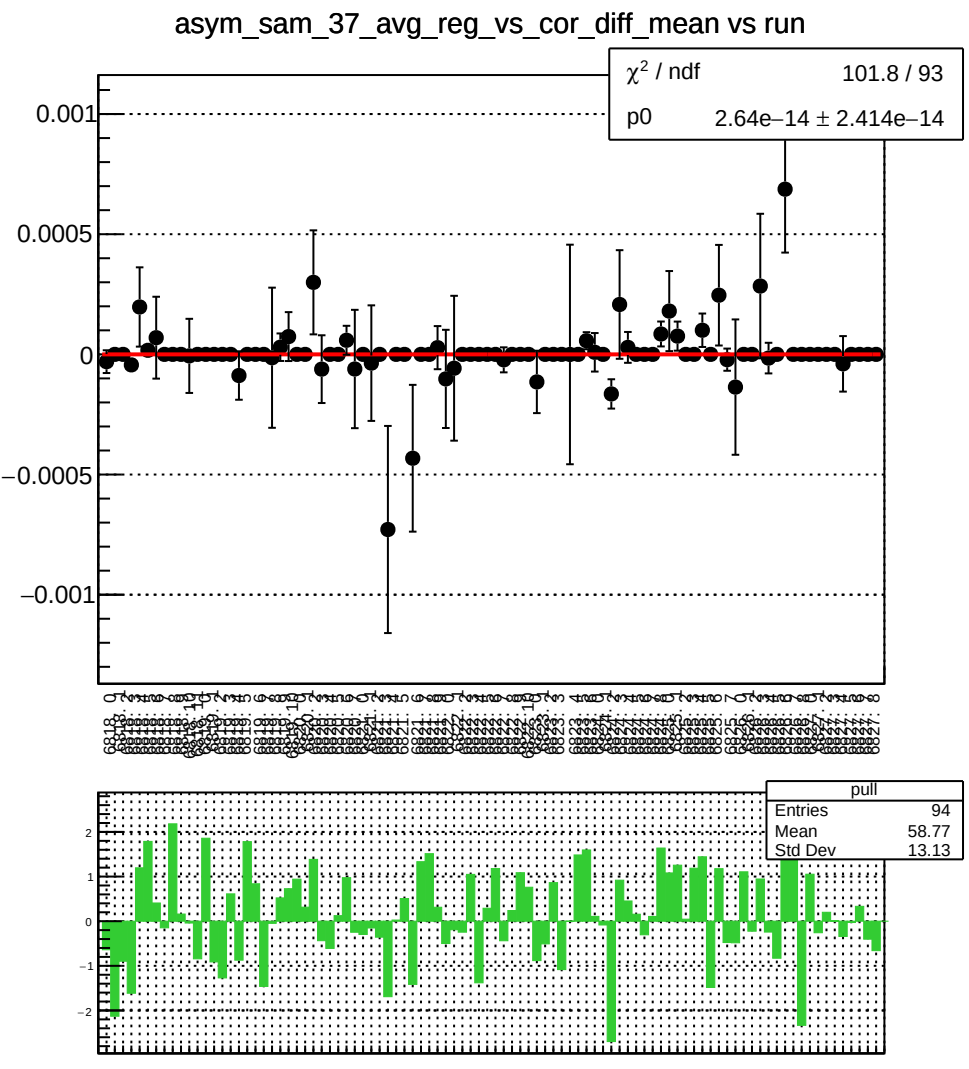

pull1D
Entries 94
Mean −0.008749
Std Dev 0.88
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

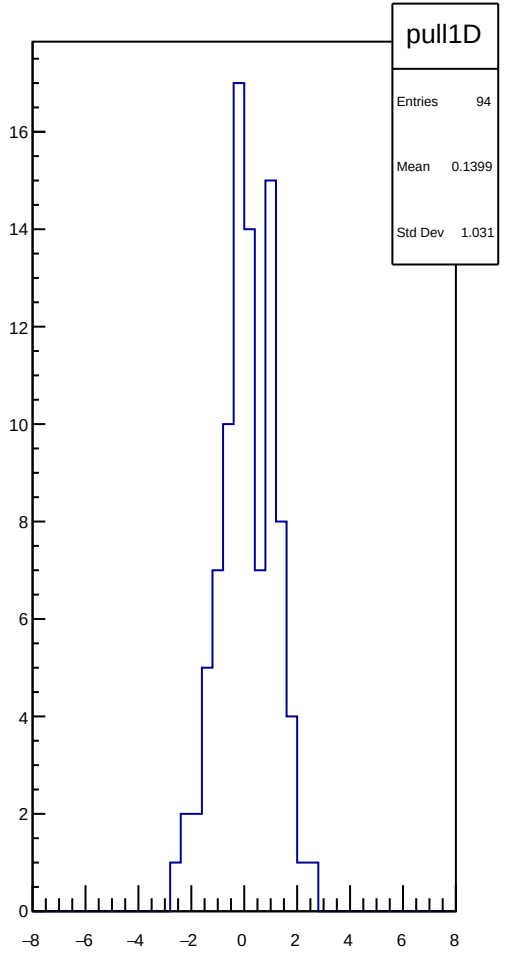

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3073 / 93
p0 682.6 ± 0.5099
740
720
700
680
660
640
620

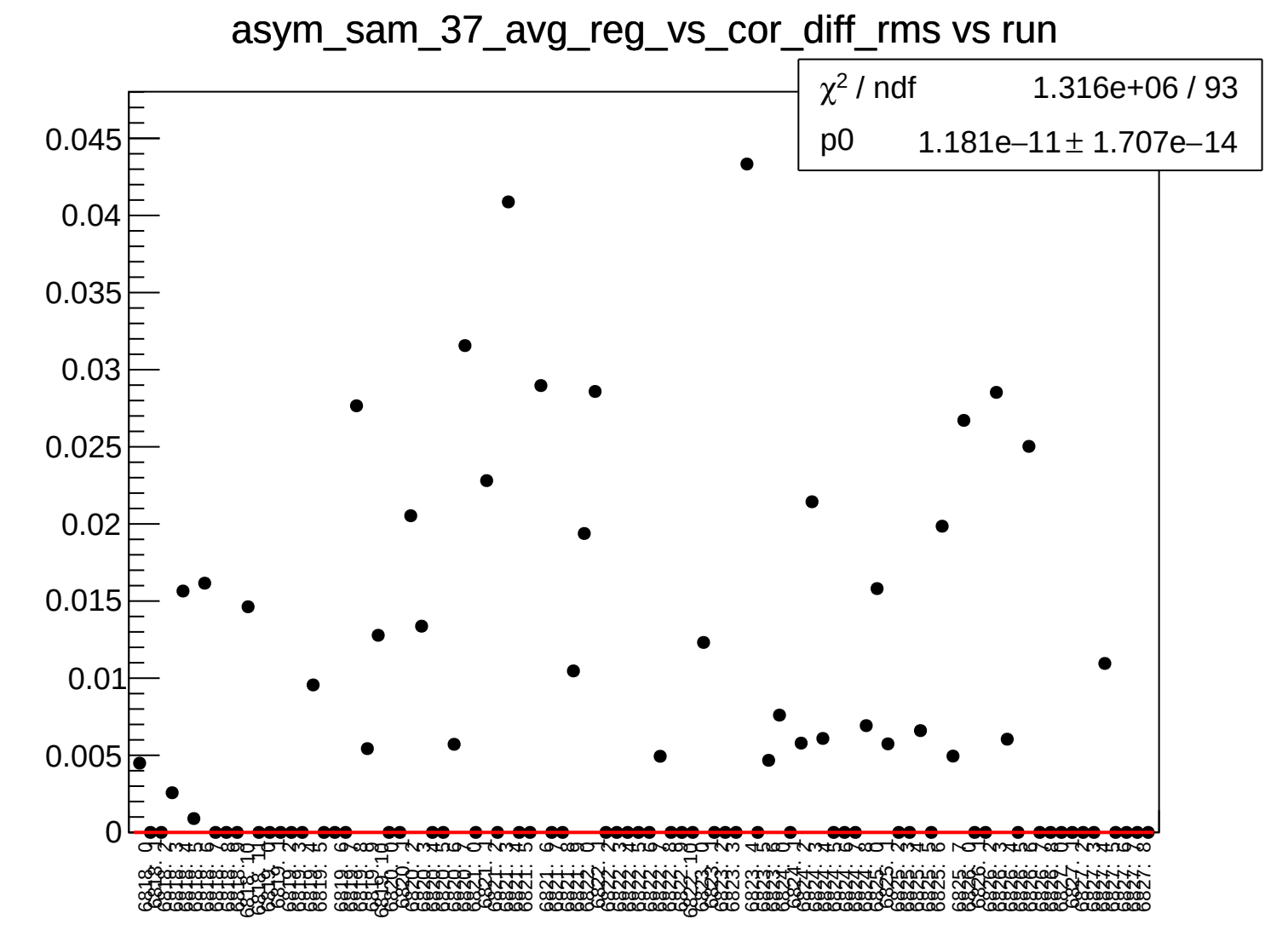

asym_sam_37_avg_mean vs run
χ² / ndf 72.2 / 93
p0 774.8 ± 777
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −199.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

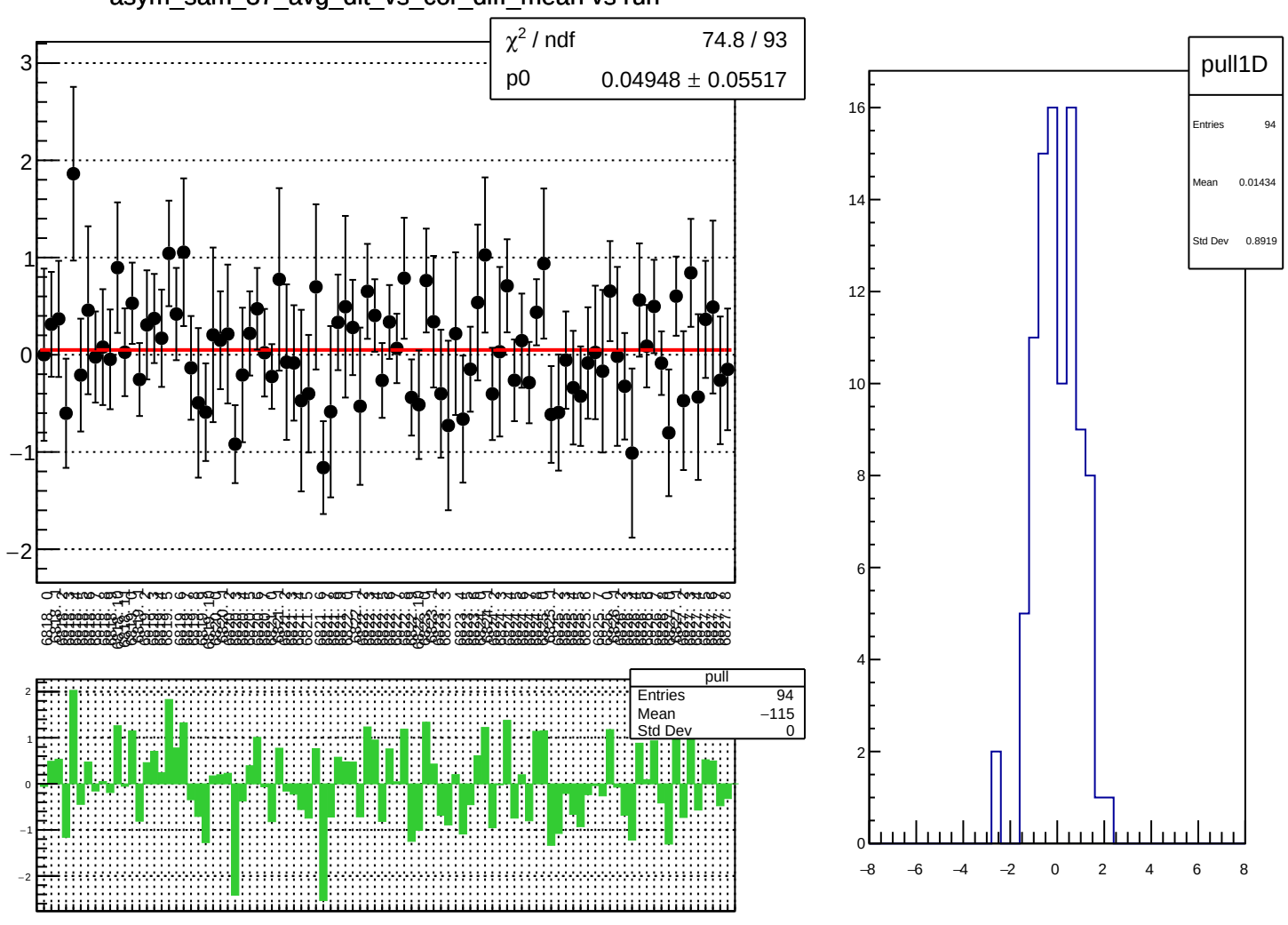

pull1D
Entries 94
Mean 0.009734
Std Dev 0.8763
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

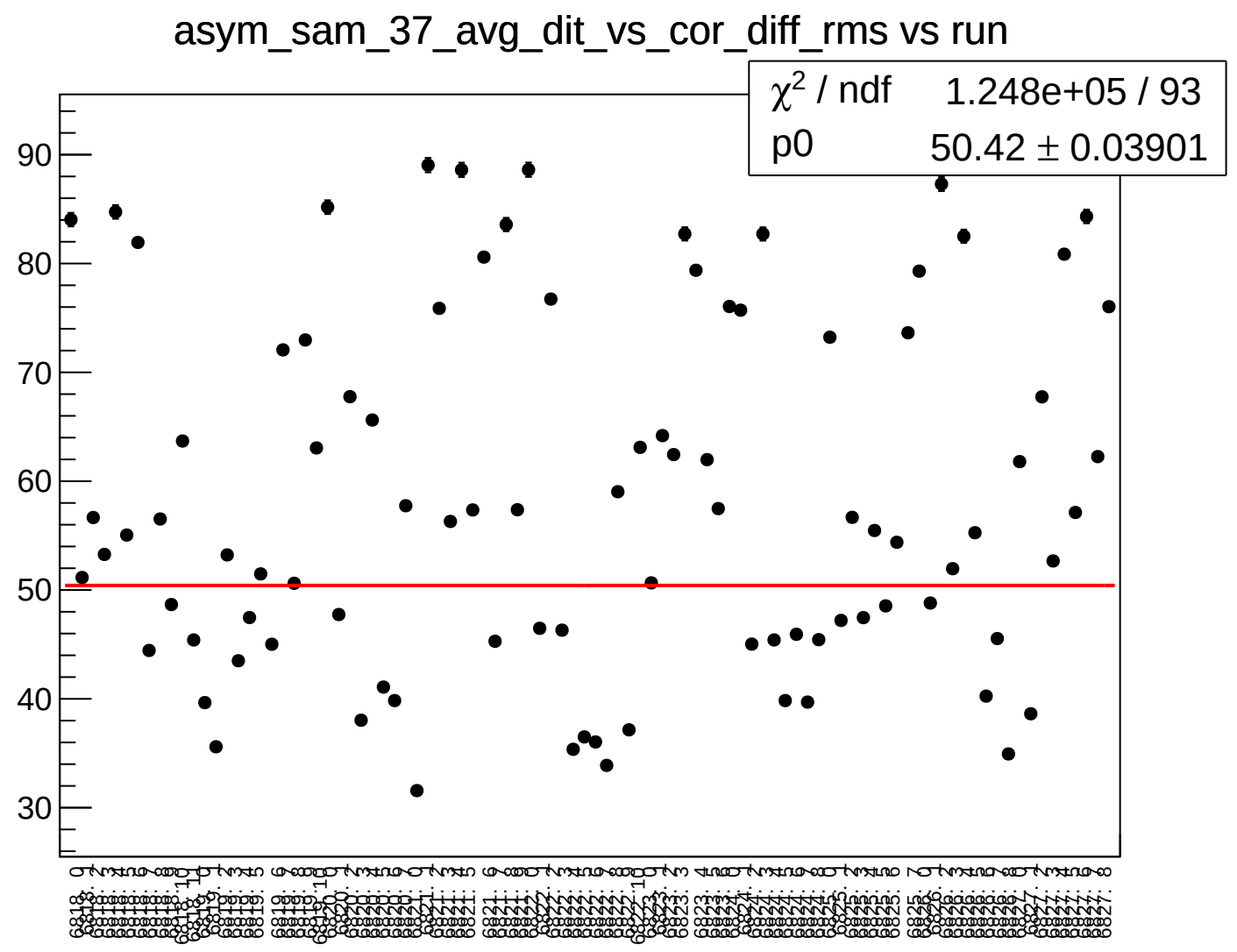

asym_sam_37_avg_rms vs run
χ^2 / ndf 5635 / 93
p0 735 ± 0.5494
840
820
800
780
760
740
720
700
680
660

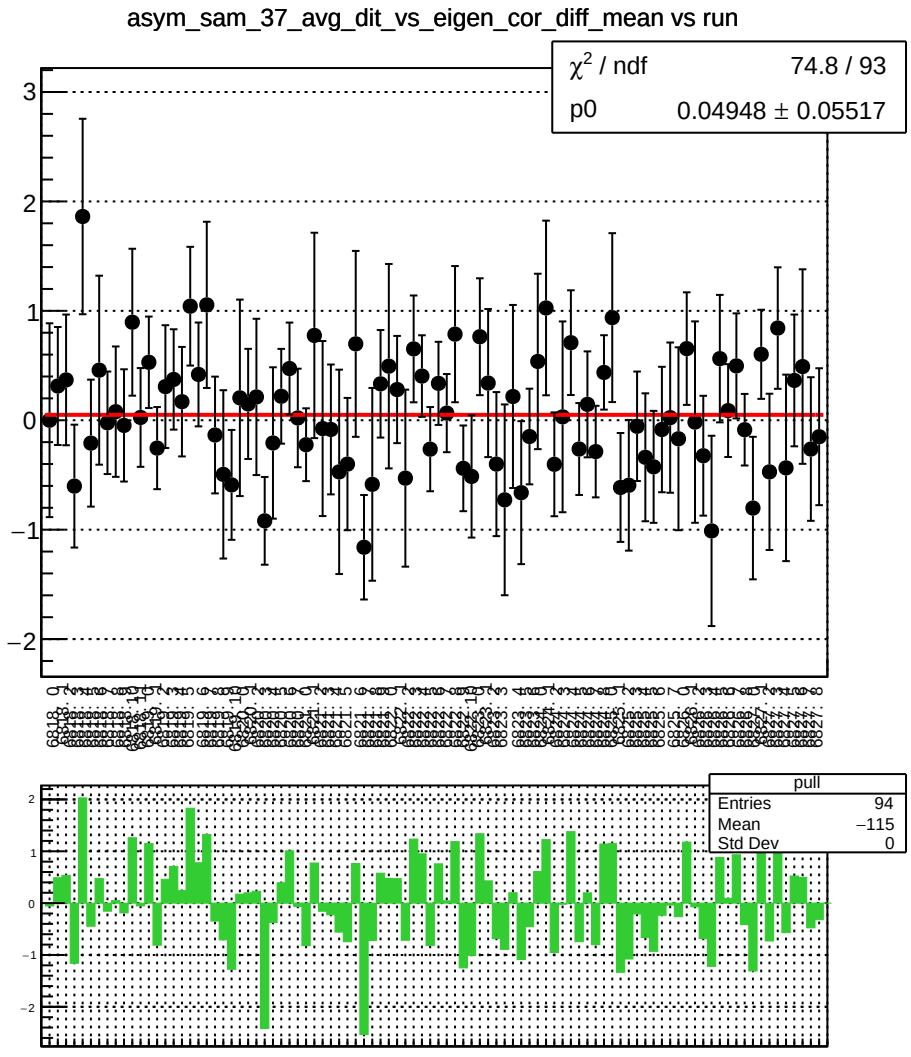

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 93
p0 2.64e−14 ± 2.414e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 58.77
Std Dev 13.13
2
1
0
−1
−2

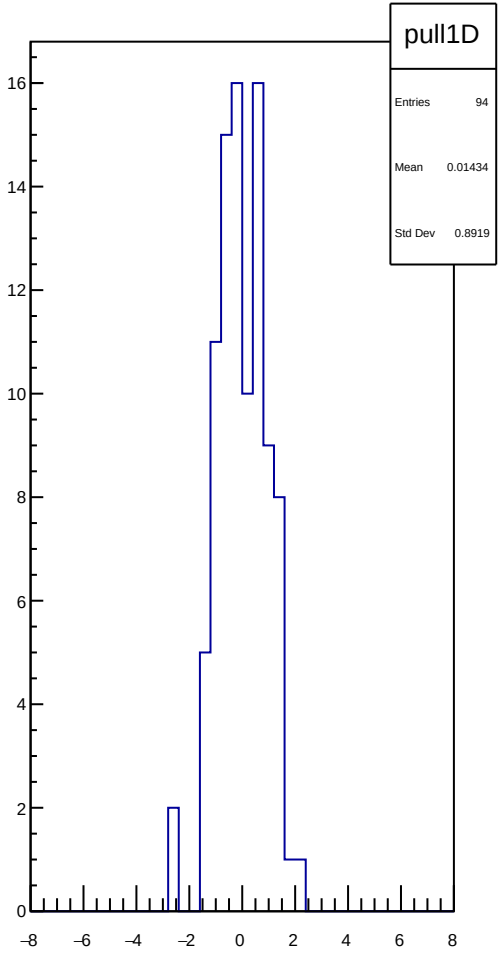

pull1D
Entries 94
Mean 0.1399
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

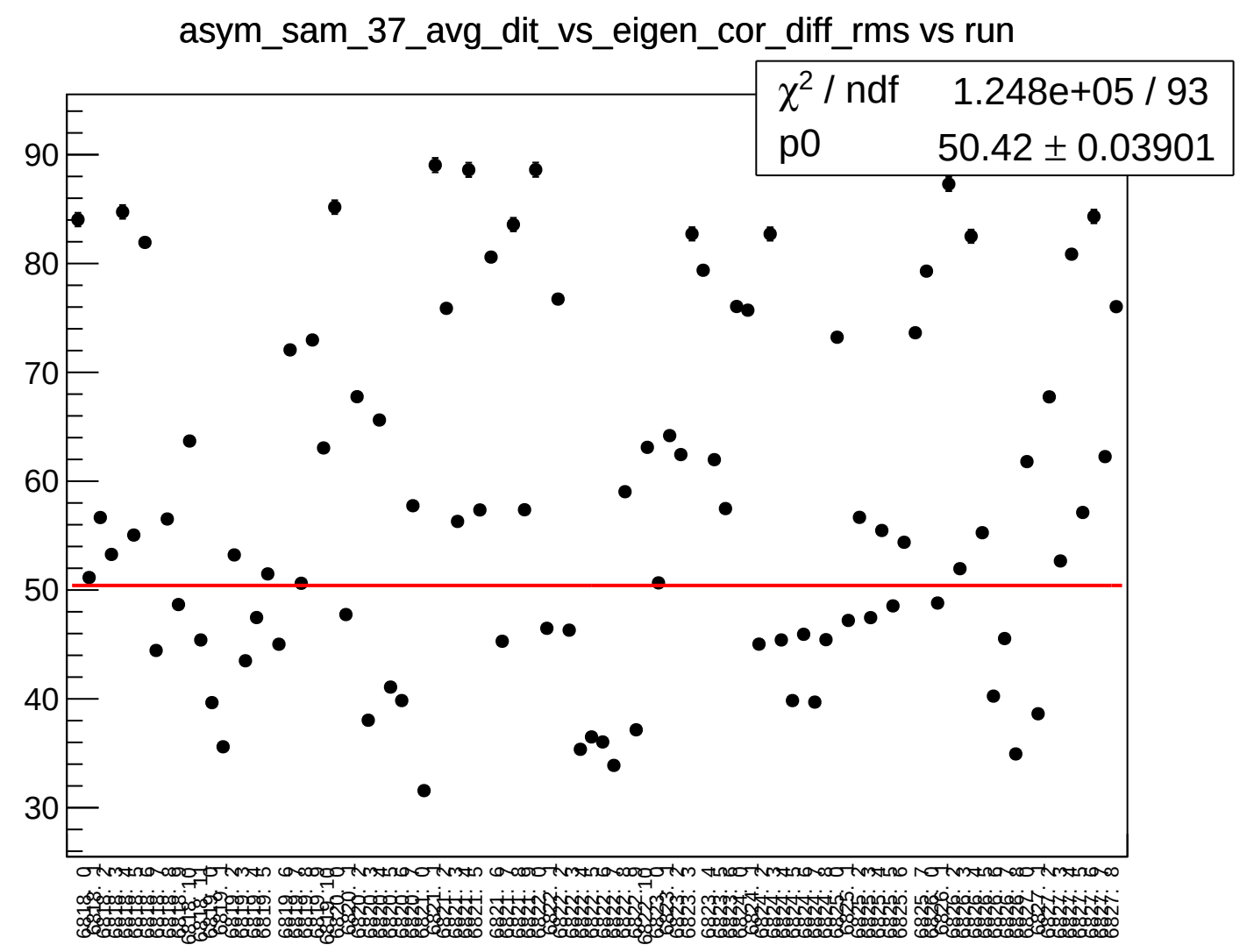

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.316e+06 / 93
p0 1.181e−11 ± 1.707e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

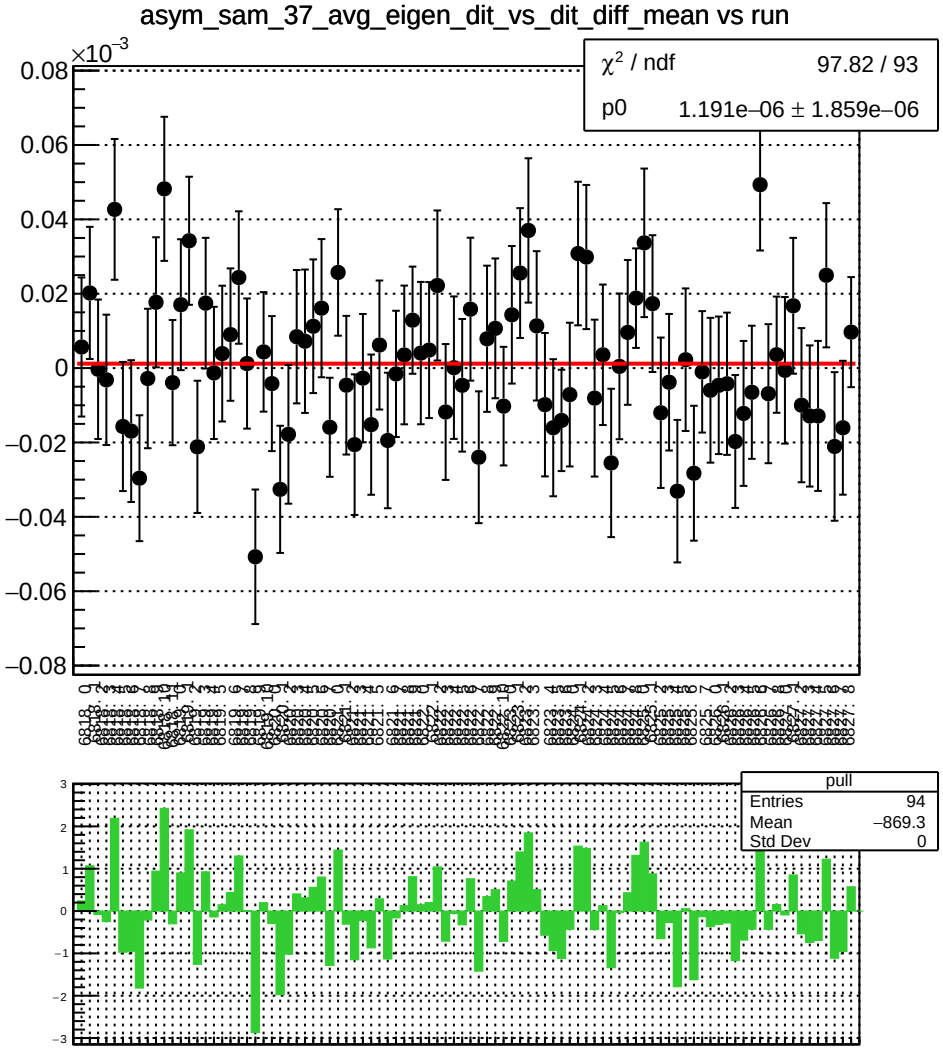

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.8 / 93
p0 0.04948 ± 0.05517
pull
Entries 94
Mean −115
Std Dev 0
pull1D
Entries 94
Mean 0.01434
Std Dev 0.8919

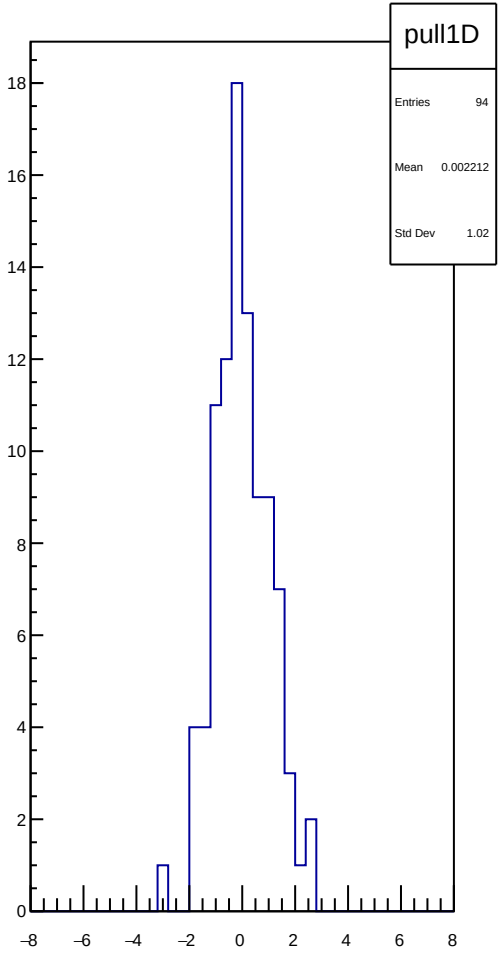

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 93
p0 50.42 ± 0.03901
90
80
70
60
50
40
30

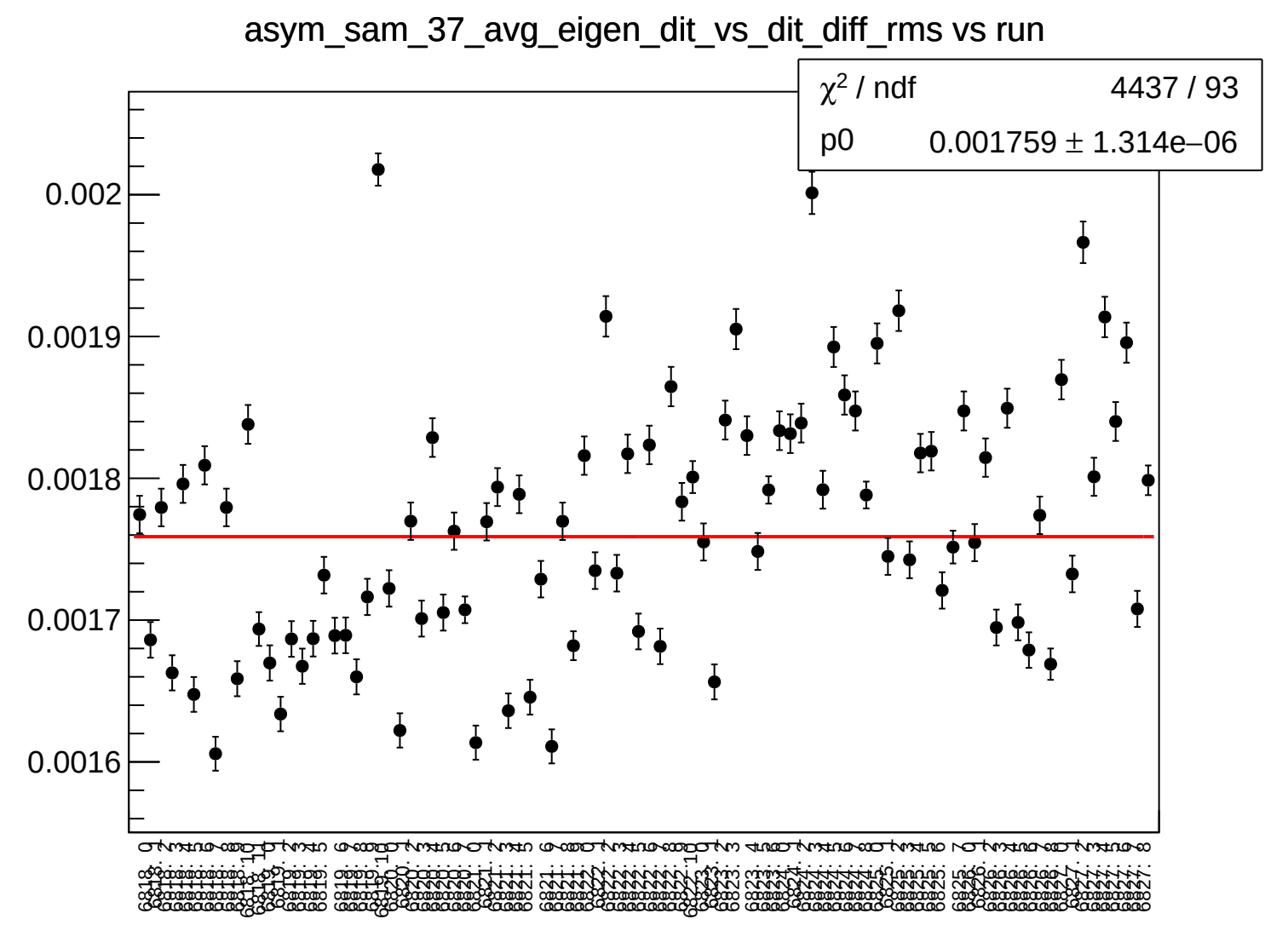

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.8 / 93
p0 0.04948 ± 0.05517
pull
Entries 94
Mean −115
Std Dev 0

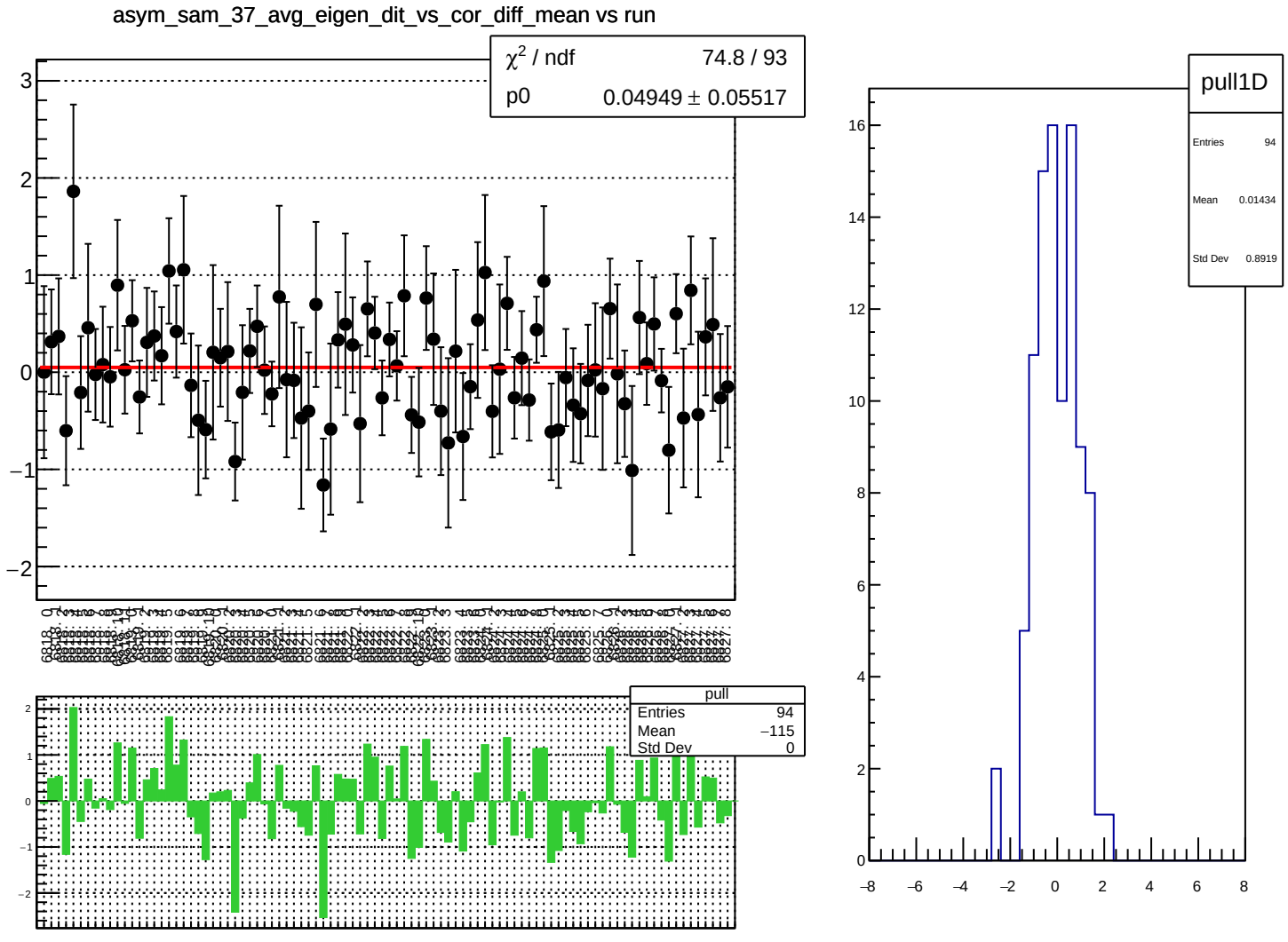

pull1D
Entries 94
Mean 0.01434
Std Dev 0.8919

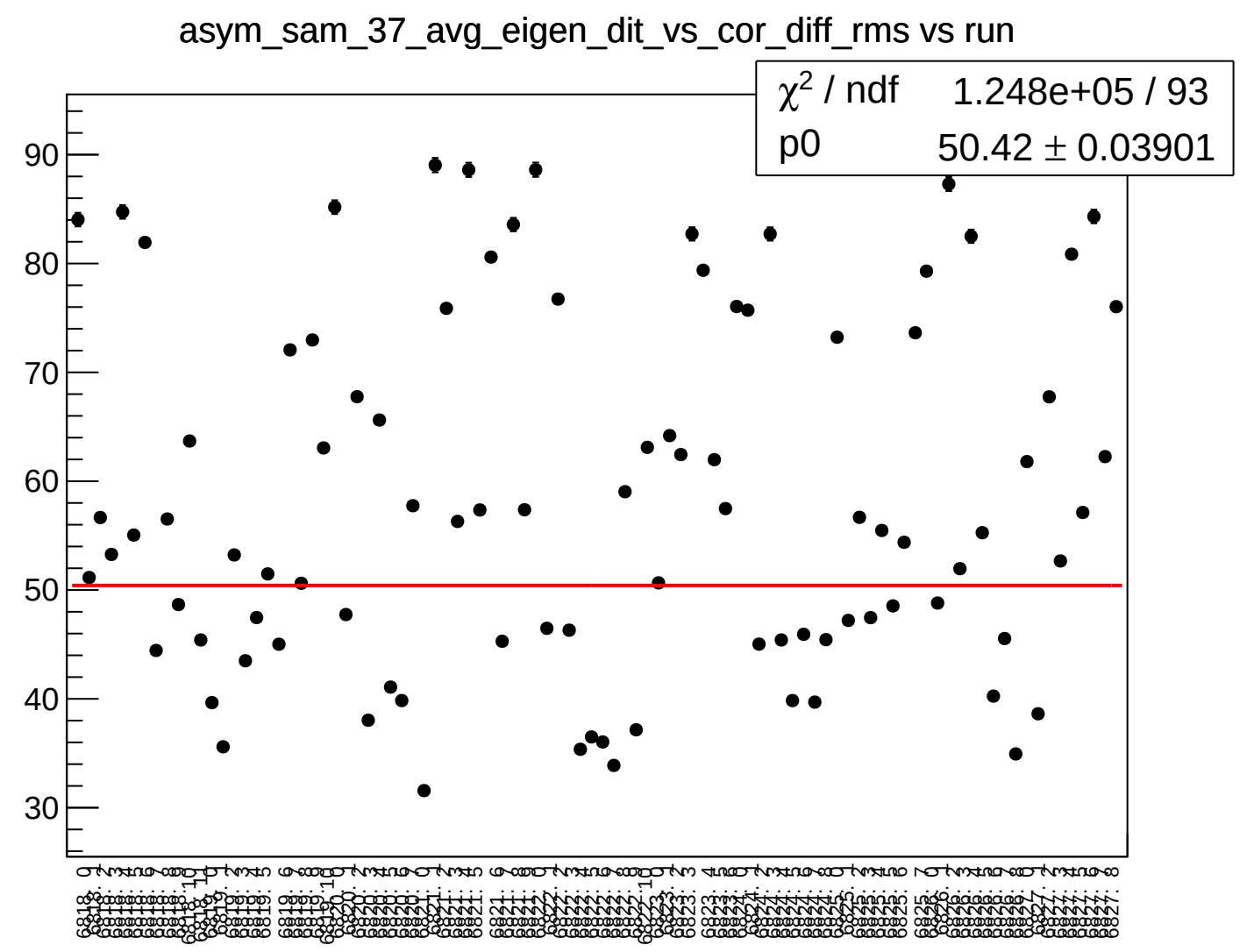

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.248e+05 / 93
p0 50.42 ± 0.03901
90
80
70
60
50
40
30

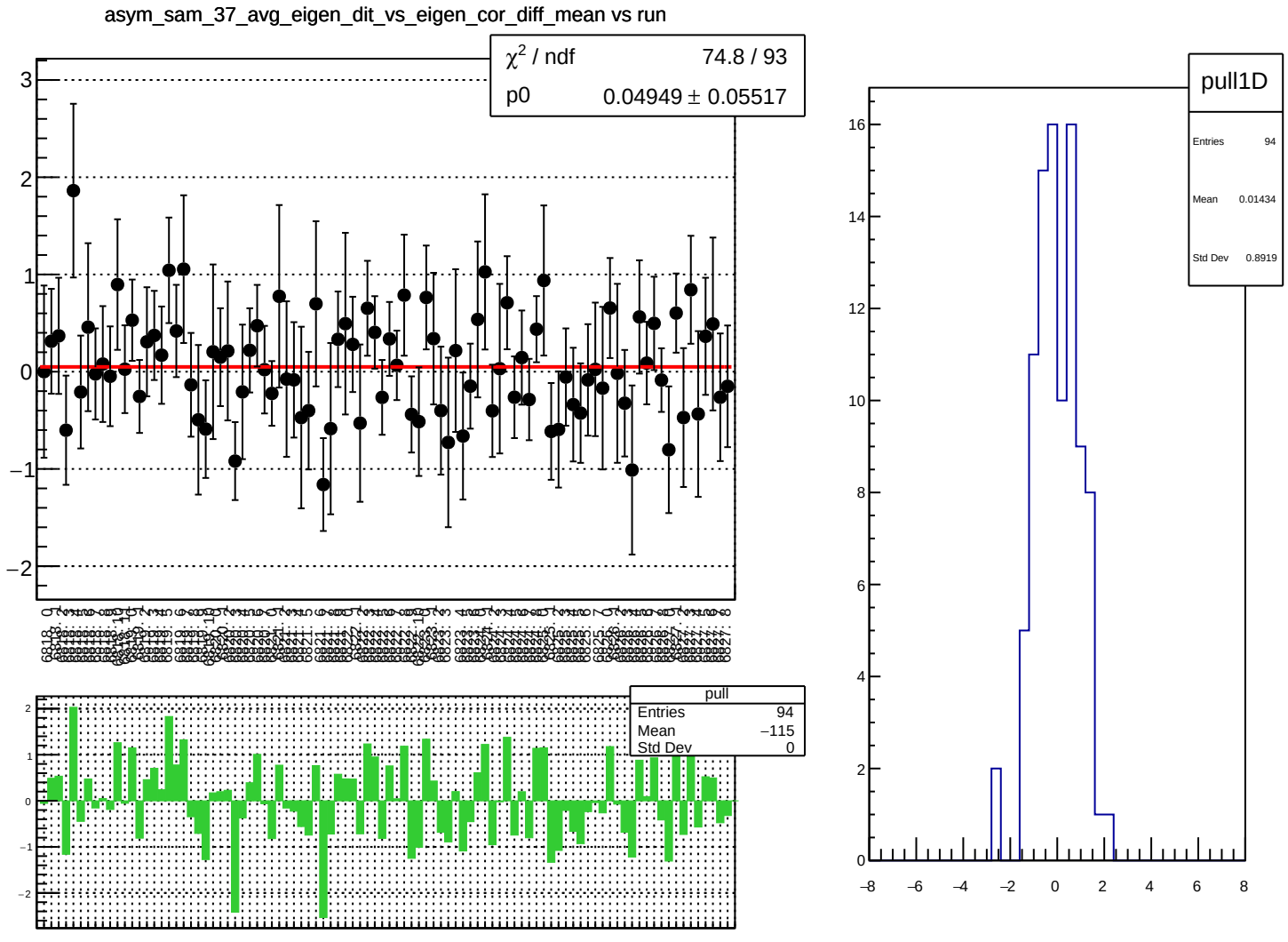

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.82 / 93
p0 1.191e−06 ± 1.859e−06
pull
Entries 94
Mean −869.3
Std Dev 0

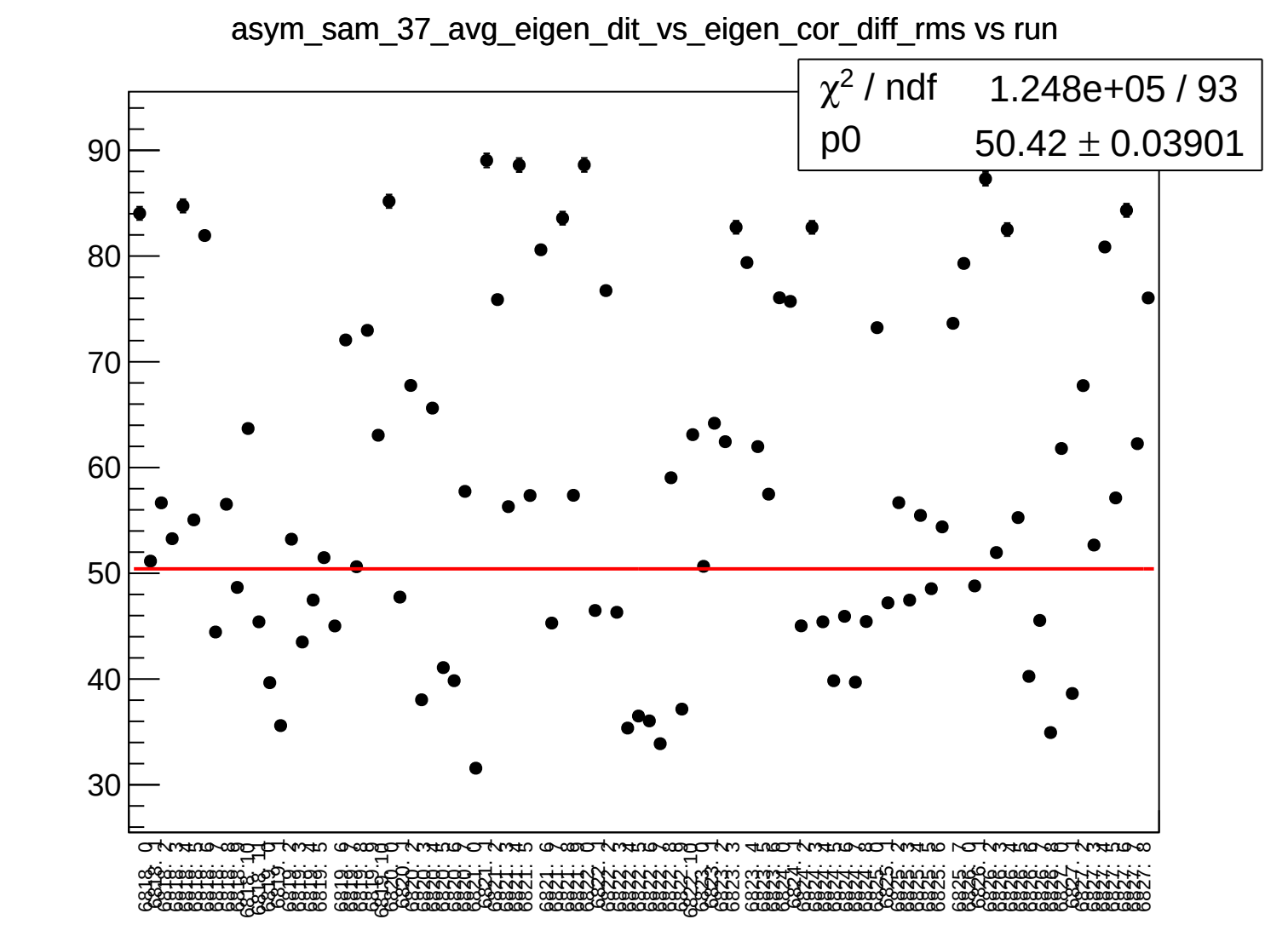

pull1D
Entries 94
Mean 0.002212
Std Dev 1.02

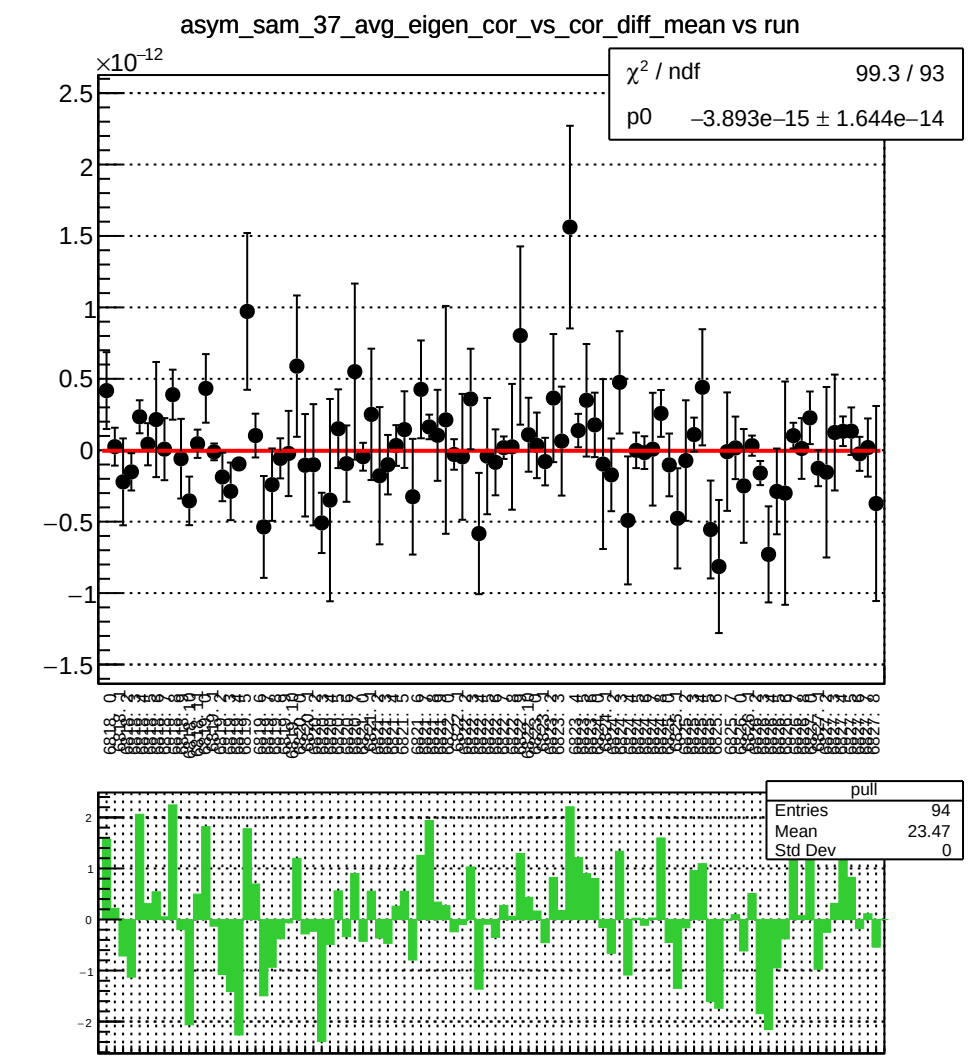

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4437 / 93
p0 0.001759 ± 1.314e−06
0.002
0.0019
0.0018
0.0017
0.0016

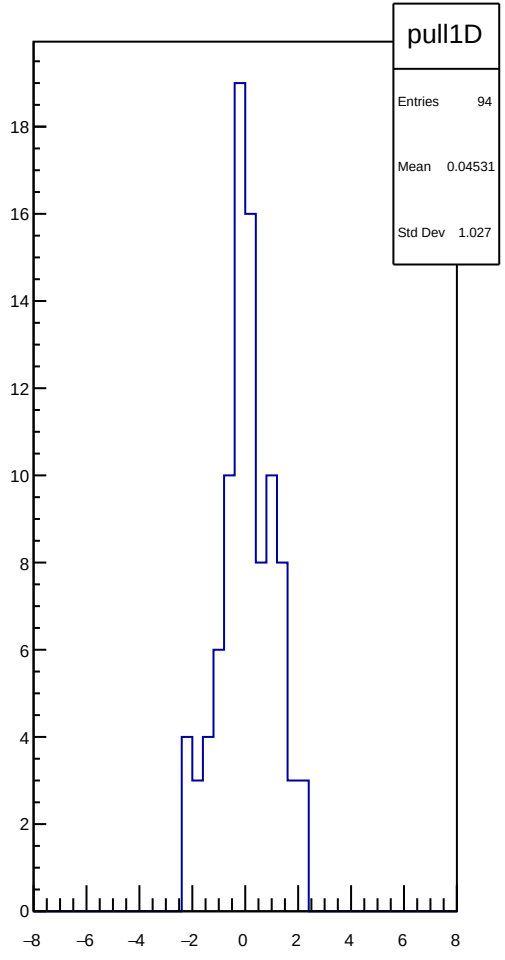

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.8 / 93
p0 0.04949 ± 0.05517
pull
Entries 94
Mean −115
Std Dev 0
pull1D
Entries 94
Mean 0.01434
Std Dev 0.8919

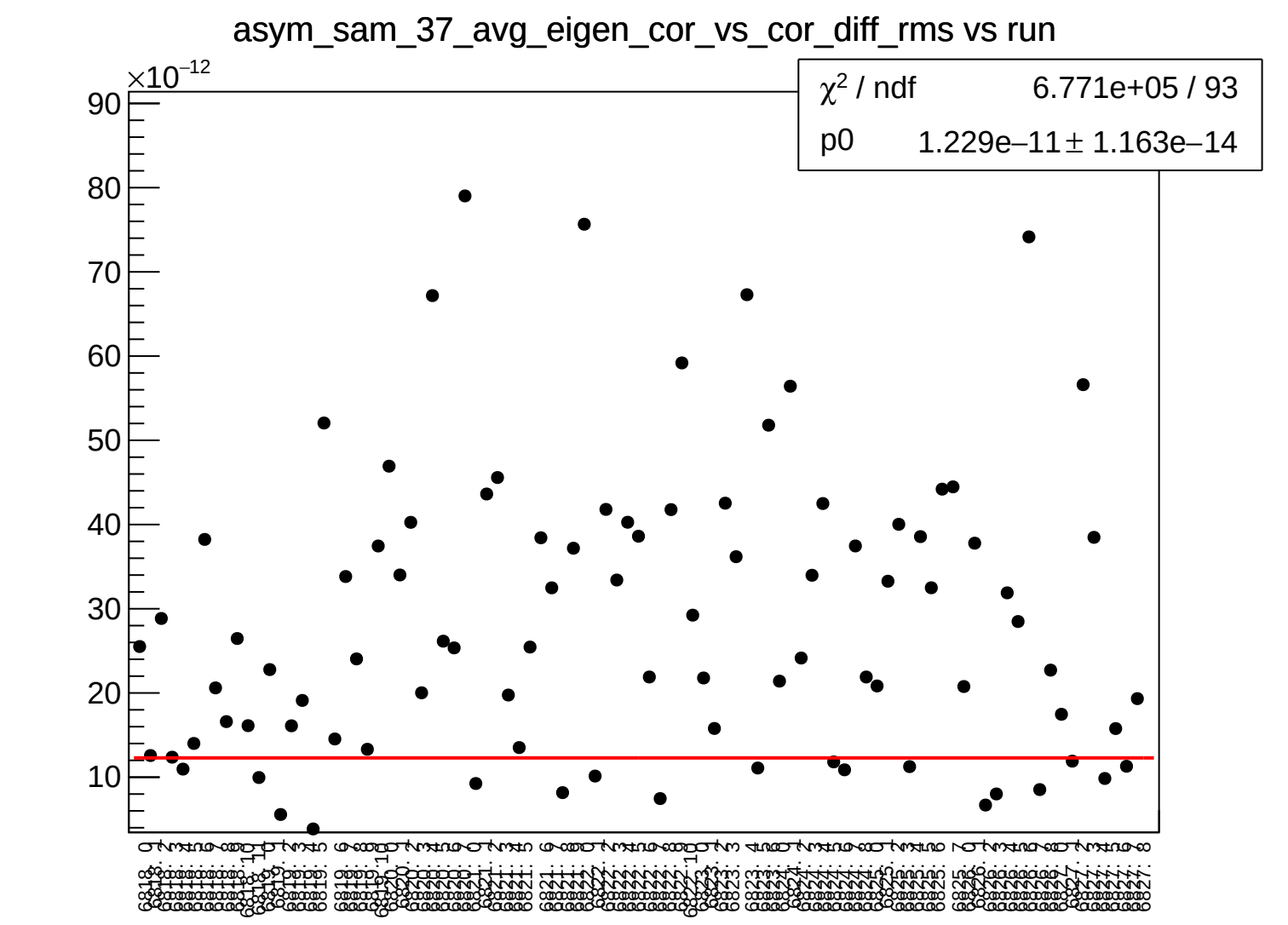

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 93
p0 50.42 ± 0.03901
90
80
70
60
50
40
30

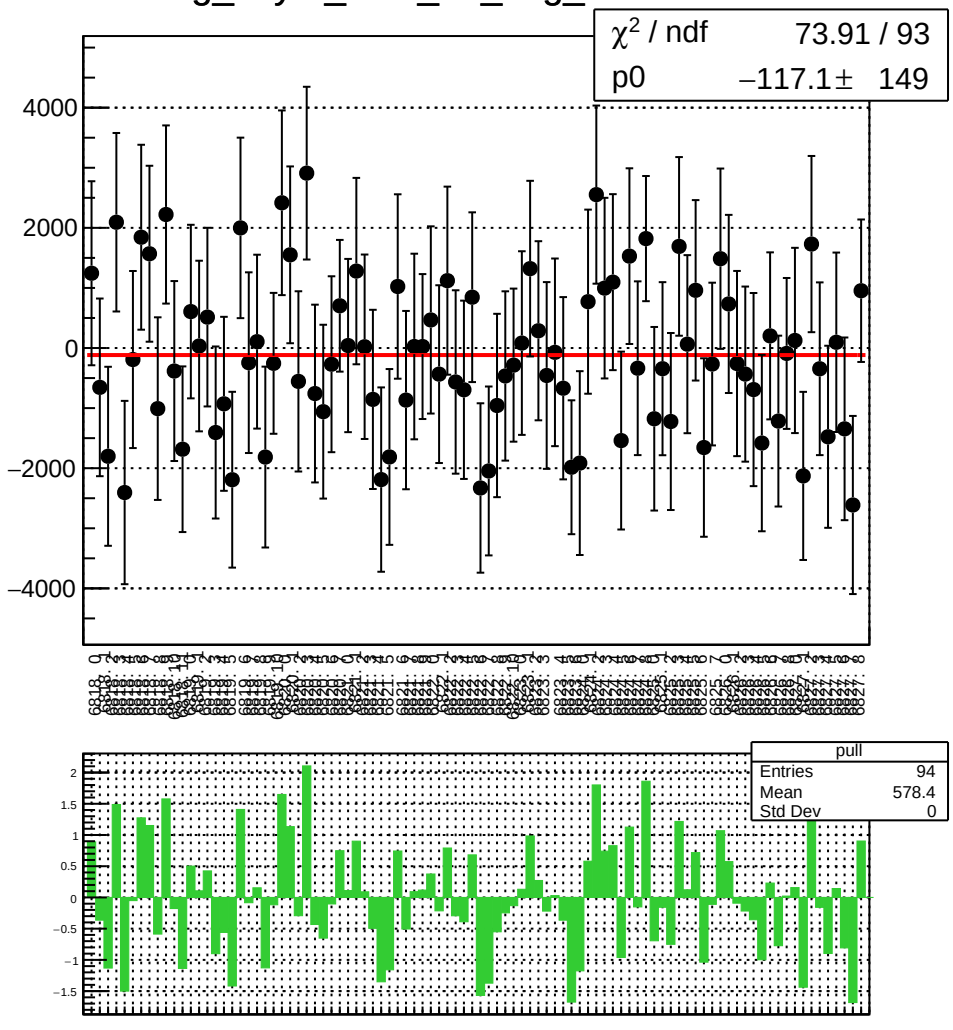

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.8 / 93
p0 0.04949 ± 0.05517
pull
Entries 94
Mean −115
Std Dev 0
pull1D
Entries 94
Mean 0.01434
Std Dev 0.8919

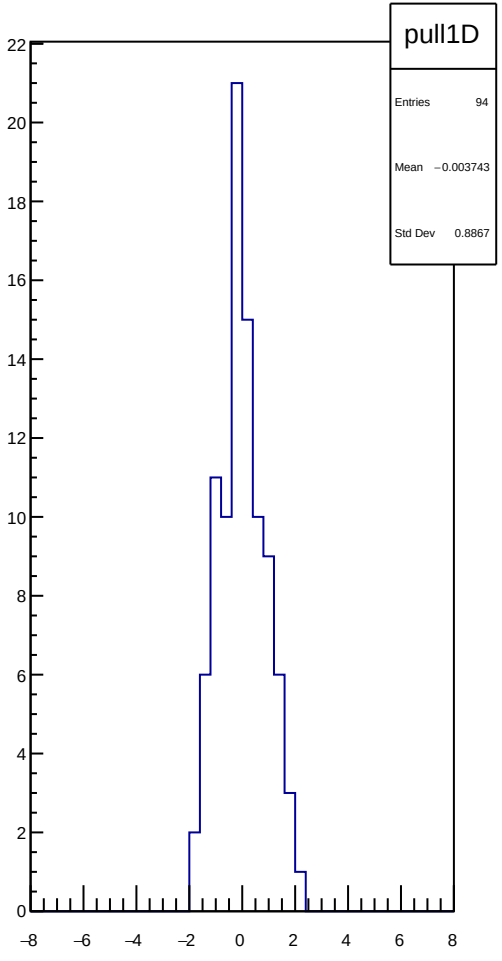

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.248e+05 / 93
p0 50.42 ± 0.03901
90
80
70
60
50
40
30

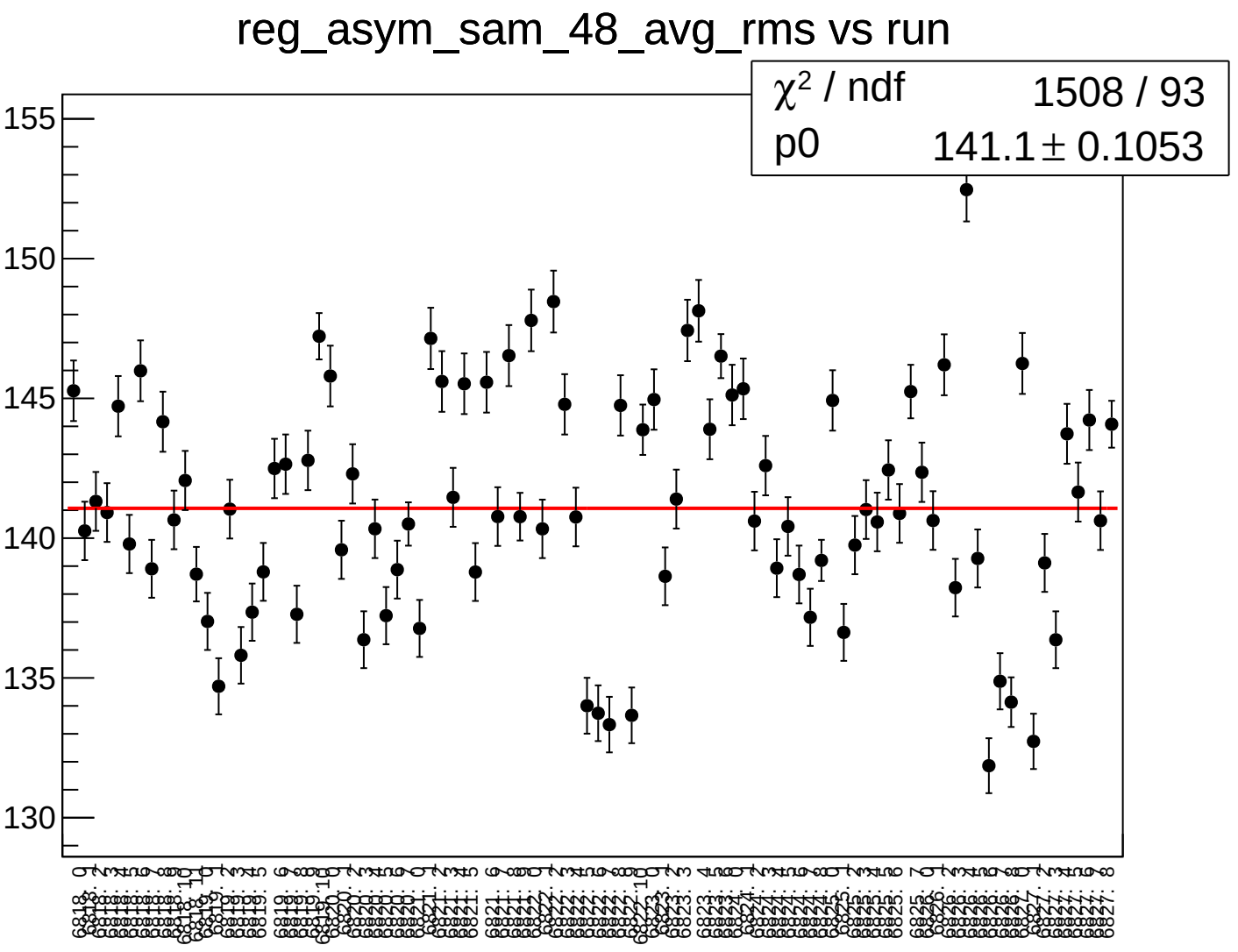

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.3 / 93
p0 −3.893e−15 ± 1.644e−14
pull
Entries 94
Mean 23.47
Std Dev 0

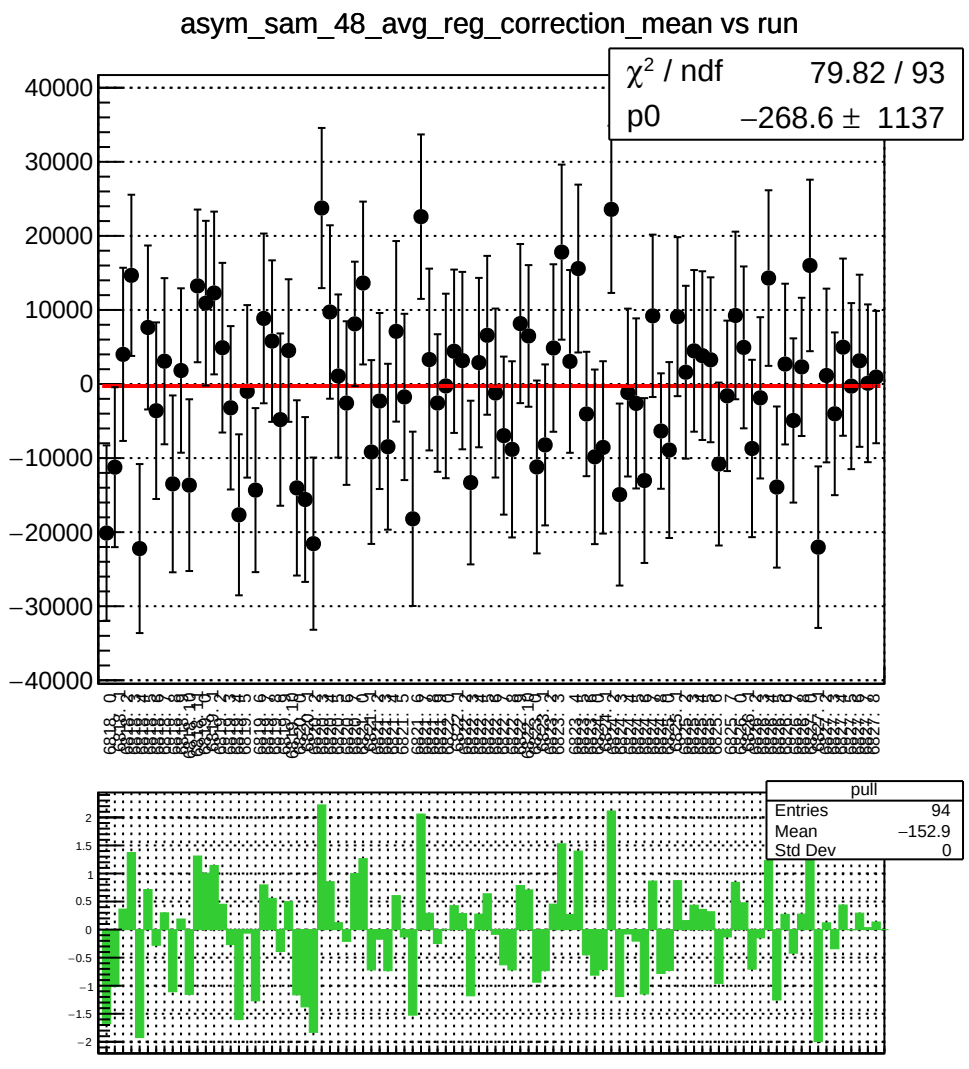

pull1D
Entries 94
Mean 0.04531
Std Dev 1.027

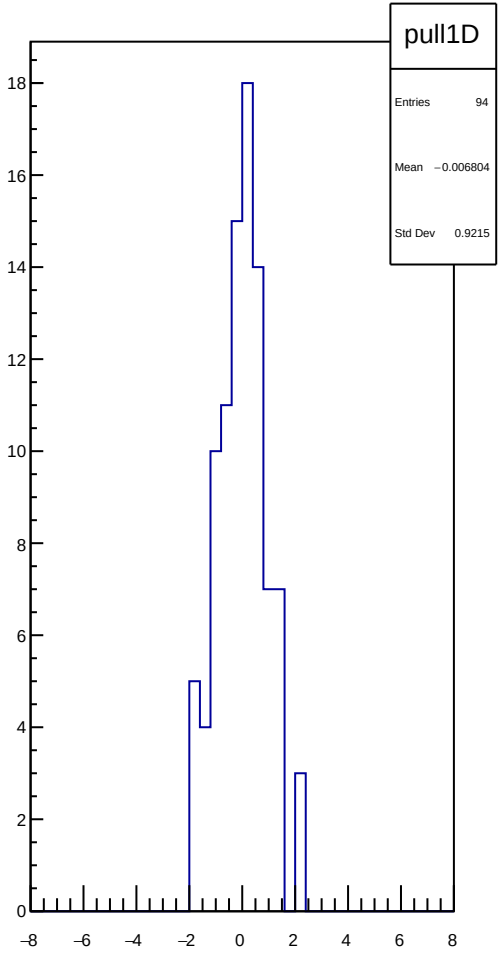

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.771e+05 / 93
p0 1.229e−11 ± 1.163e−14
90
80
70
60
50
40
30
20
10

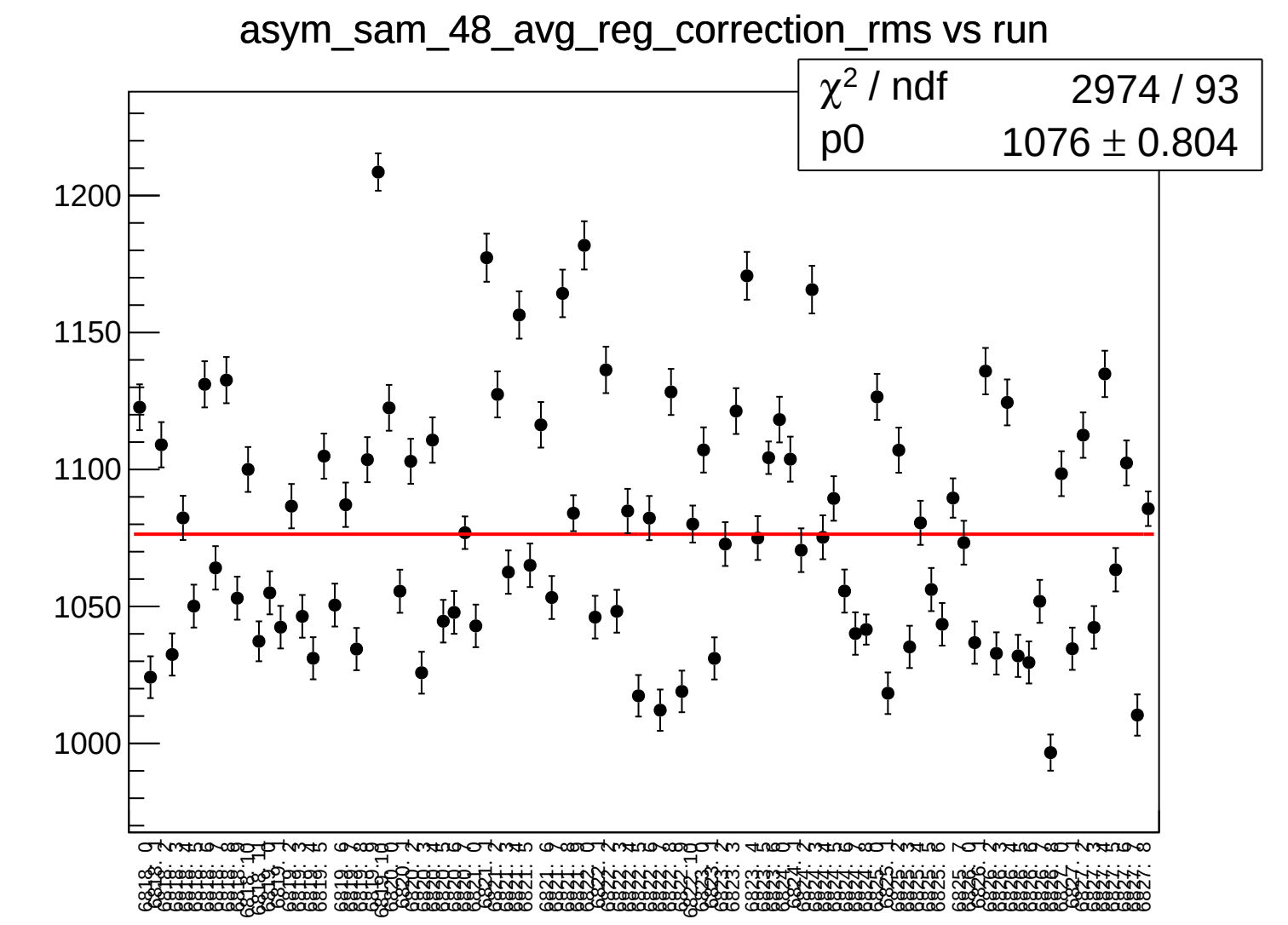

reg_asym_sam_48_avg_mean vs run
χ² / ndf 73.91 / 93
p0 −117.1± 149
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 578.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

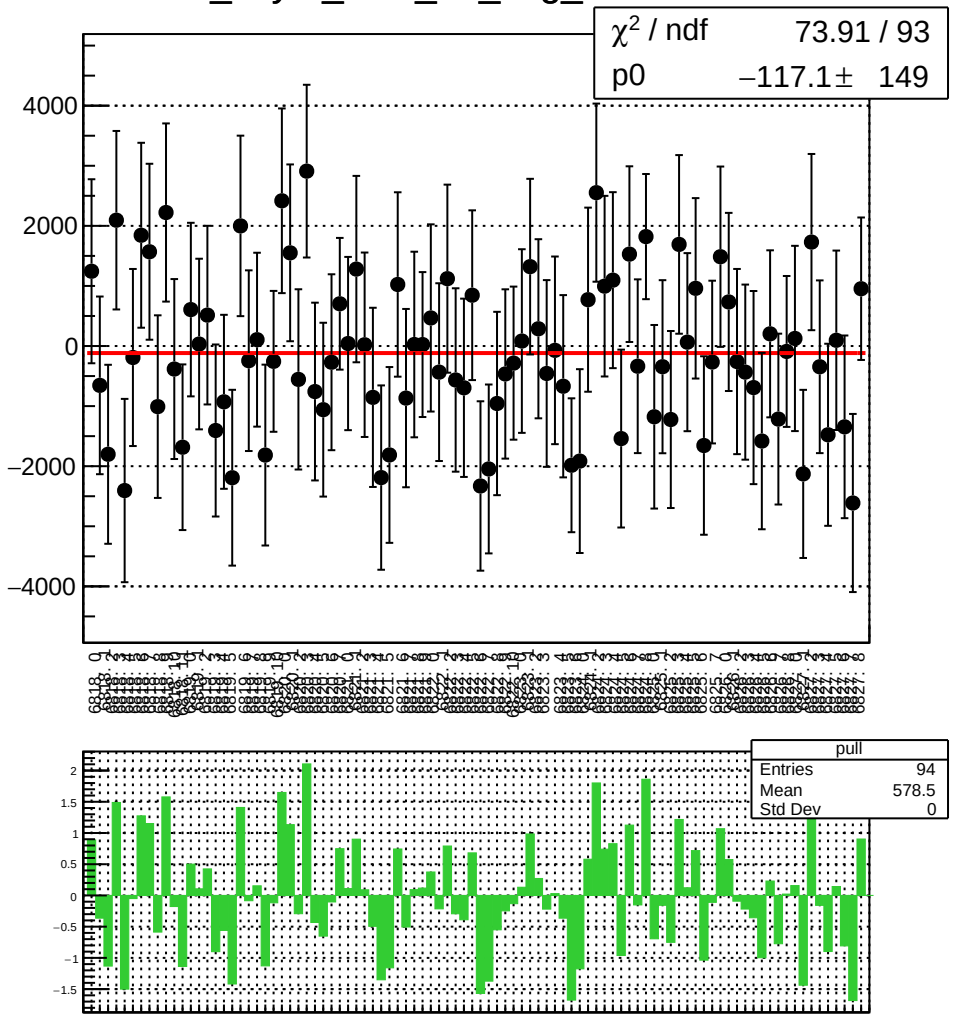

pull1D
Entries 94
Mean −0.003743
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

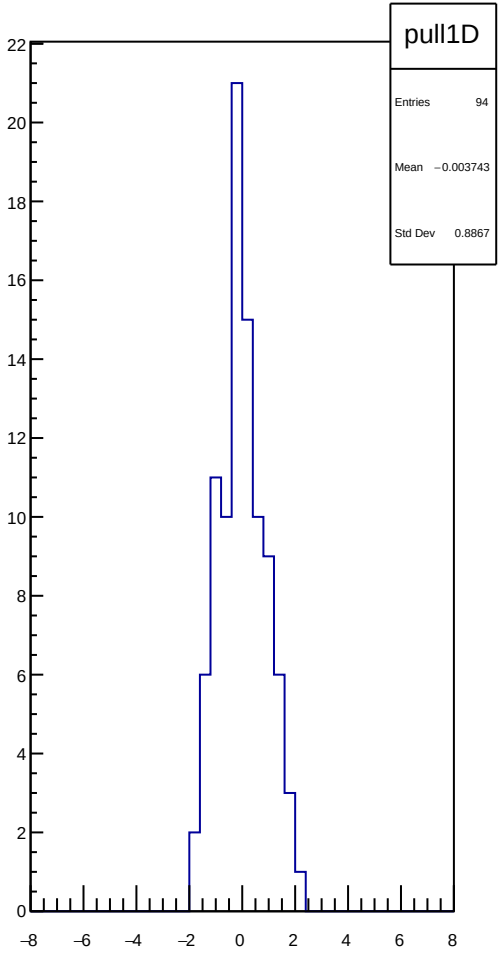

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1508 / 93
p0 141.1 ± 0.1053
155
150
145
140
135
130

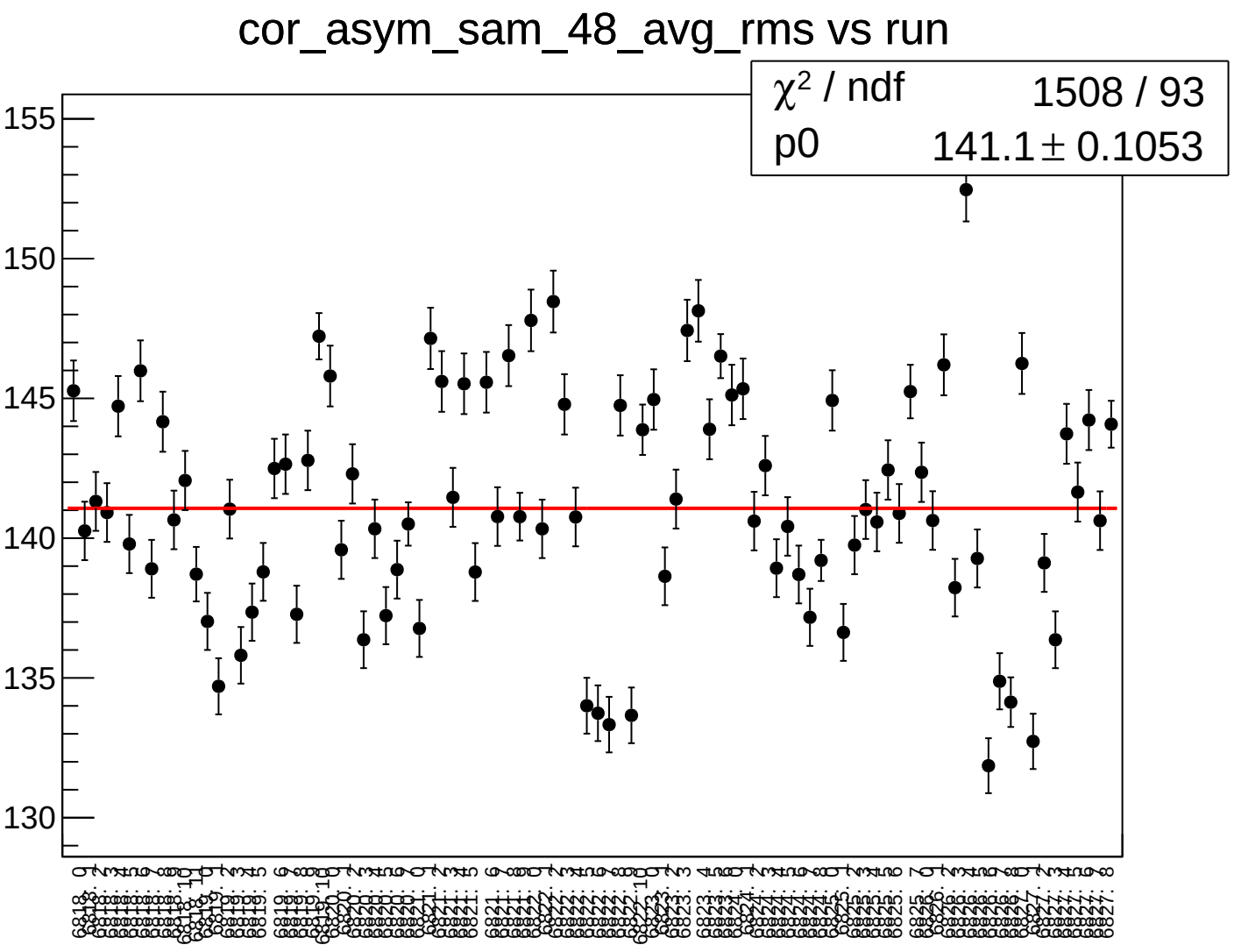

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 79.82 / 93
p0 −268.6 ± 1137
pull
Entries 94
Mean −152.9
Std Dev 0

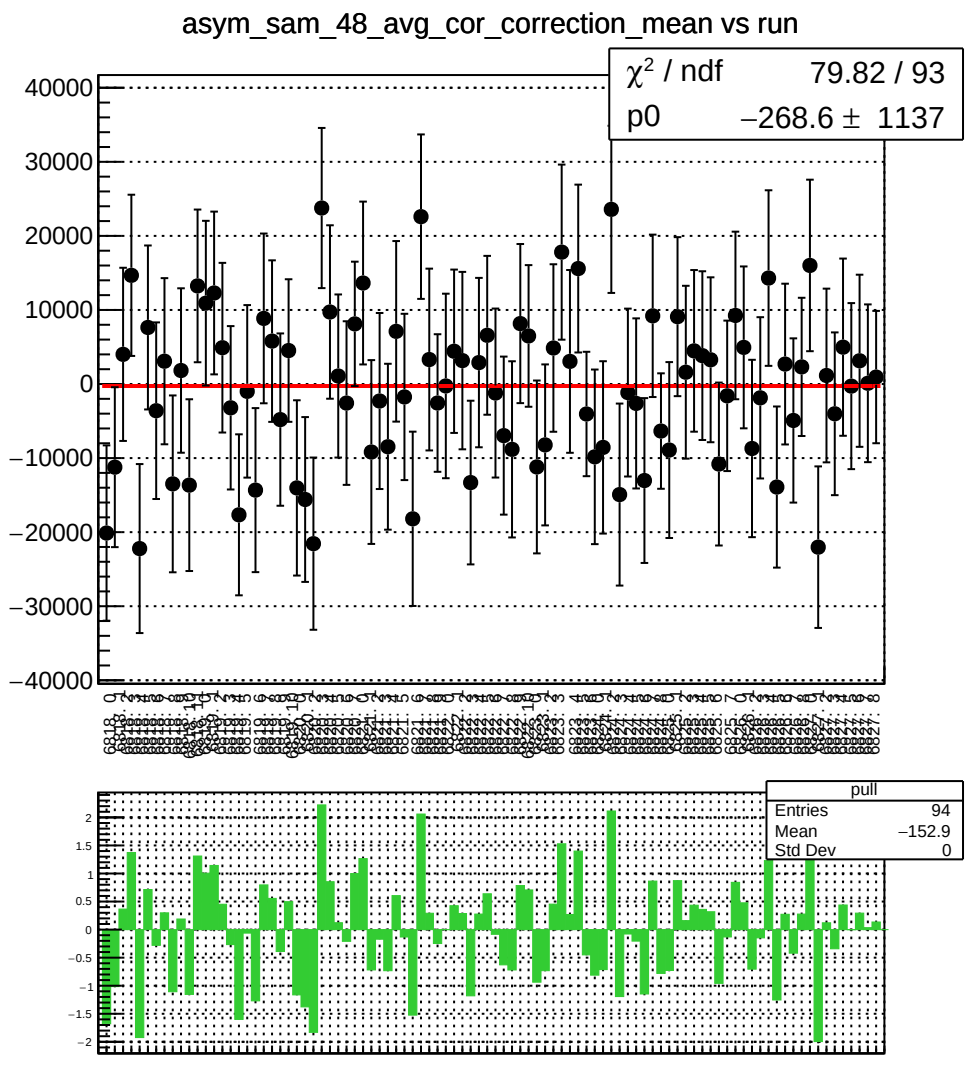

pull1D
Entries 94
Mean −0.006804
Std Dev 0.9215

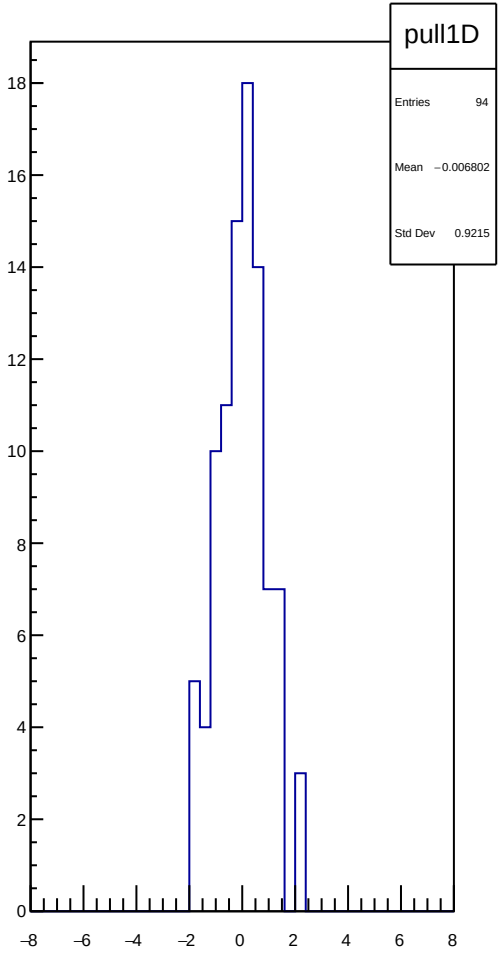

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2974 / 93
p0 1076 ± 0.804
1200
1150
1100
1050
1000

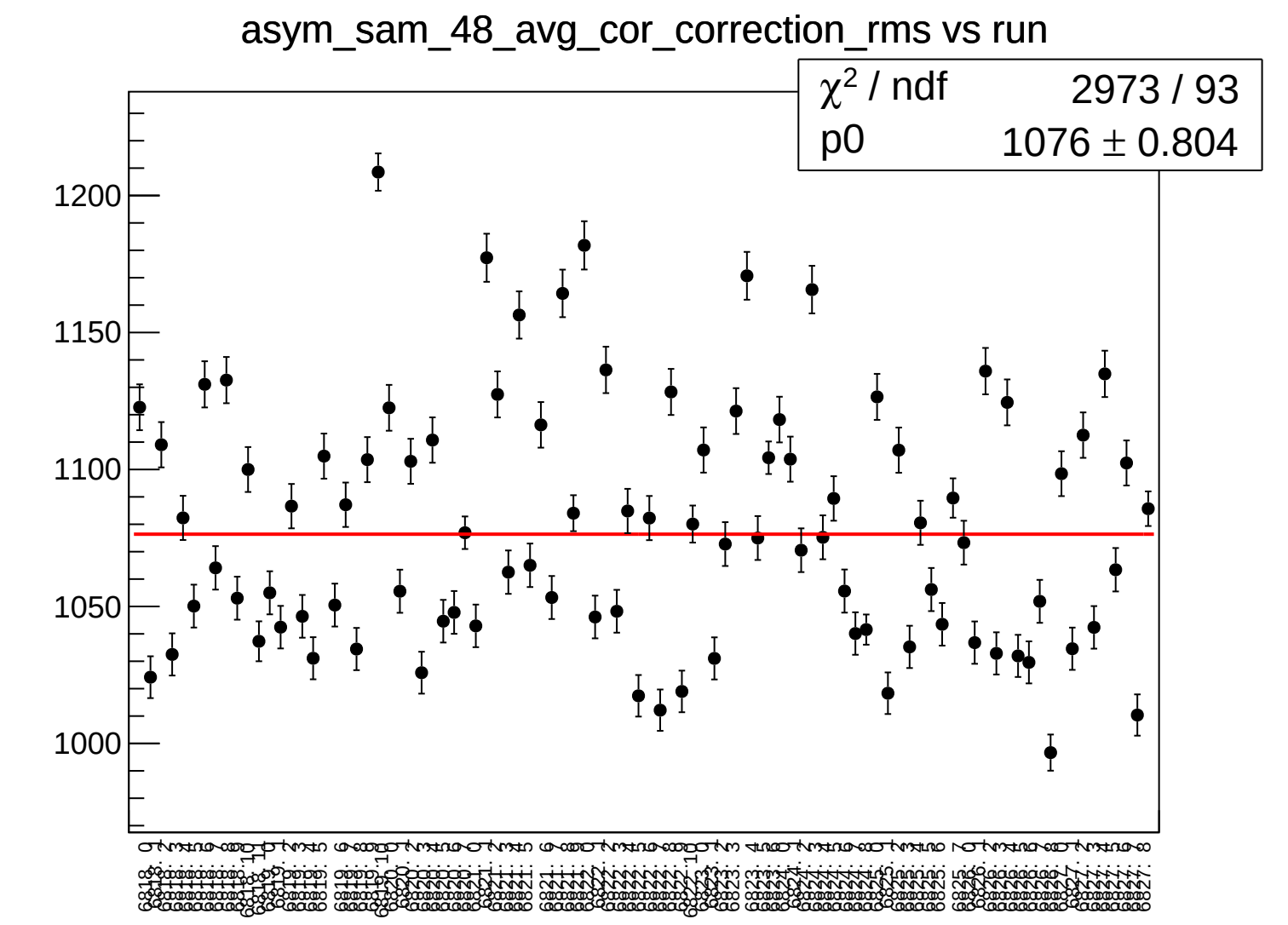

cor_asym_sam_48_avg_mean vs run
χ² / ndf 73.91 / 93
p0 −117.1± 149
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 578.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

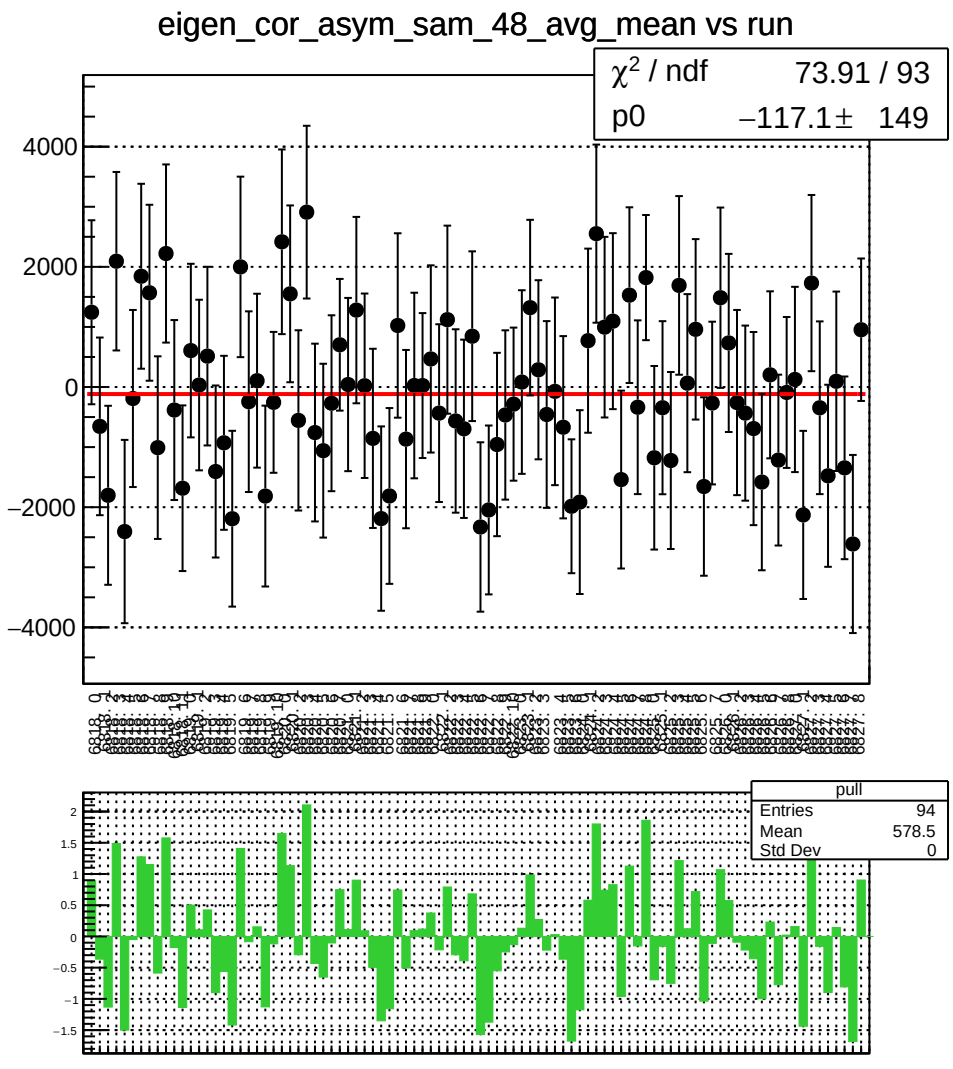

pull1D
Entries 94
Mean −0.003743
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

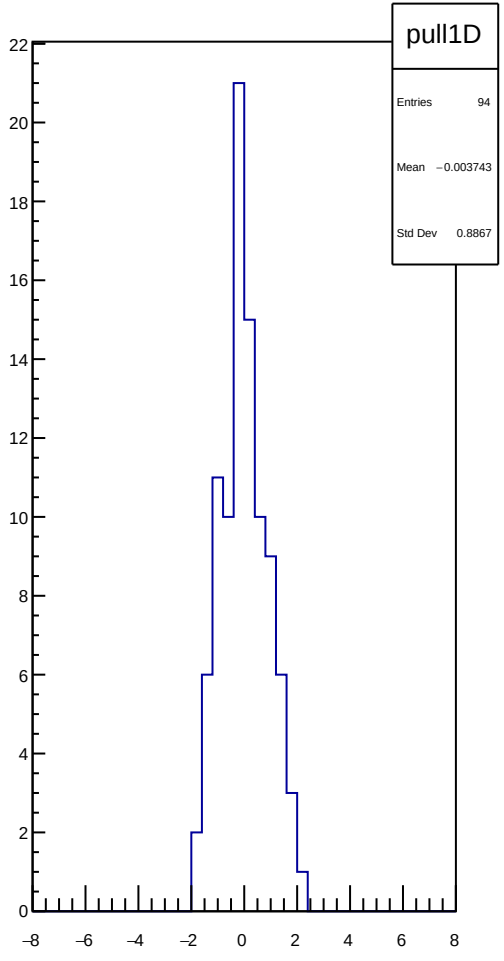

cor_asym_sam_48_avg_rms vs run
χ² / ndf 1508 / 93
p0 141.1 ± 0.1053
155
150
145
140
135
130

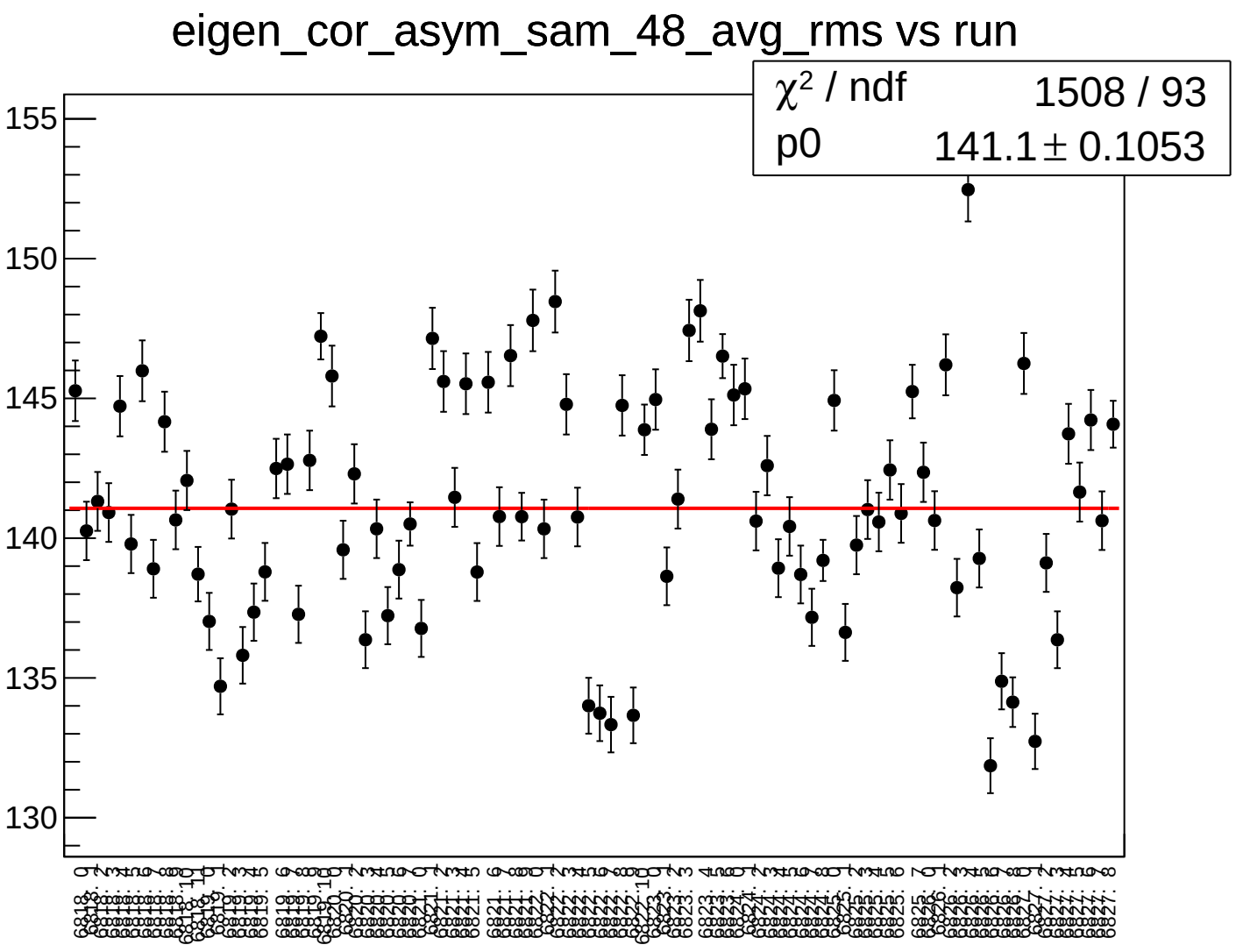

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 79.82 / 93
p0 −268.6 ± 1137
pull
Entries 94
Mean −152.9
Std Dev 0

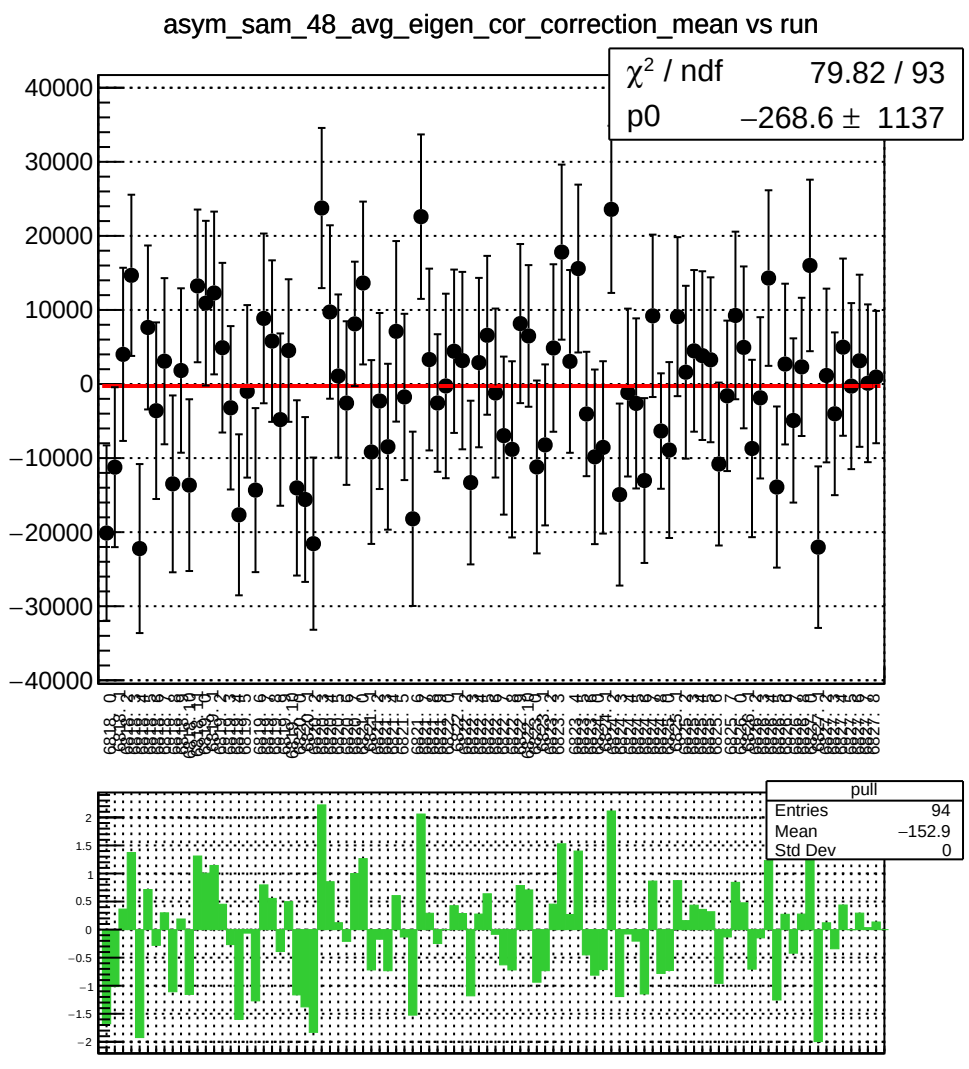

pull1D
Entries 94
Mean −0.006802
Std Dev 0.9215

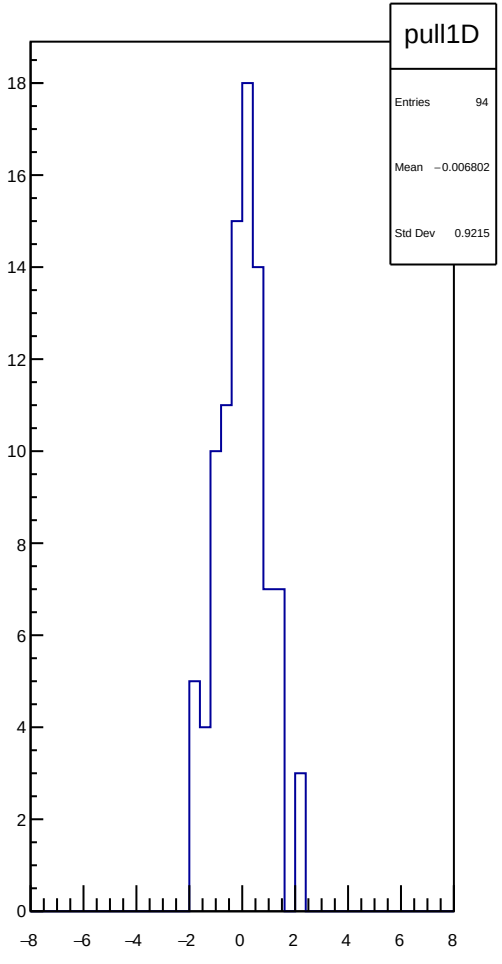

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2973 / 93
p0 1076 ± 0.804
1200
1150
1100
1050
1000

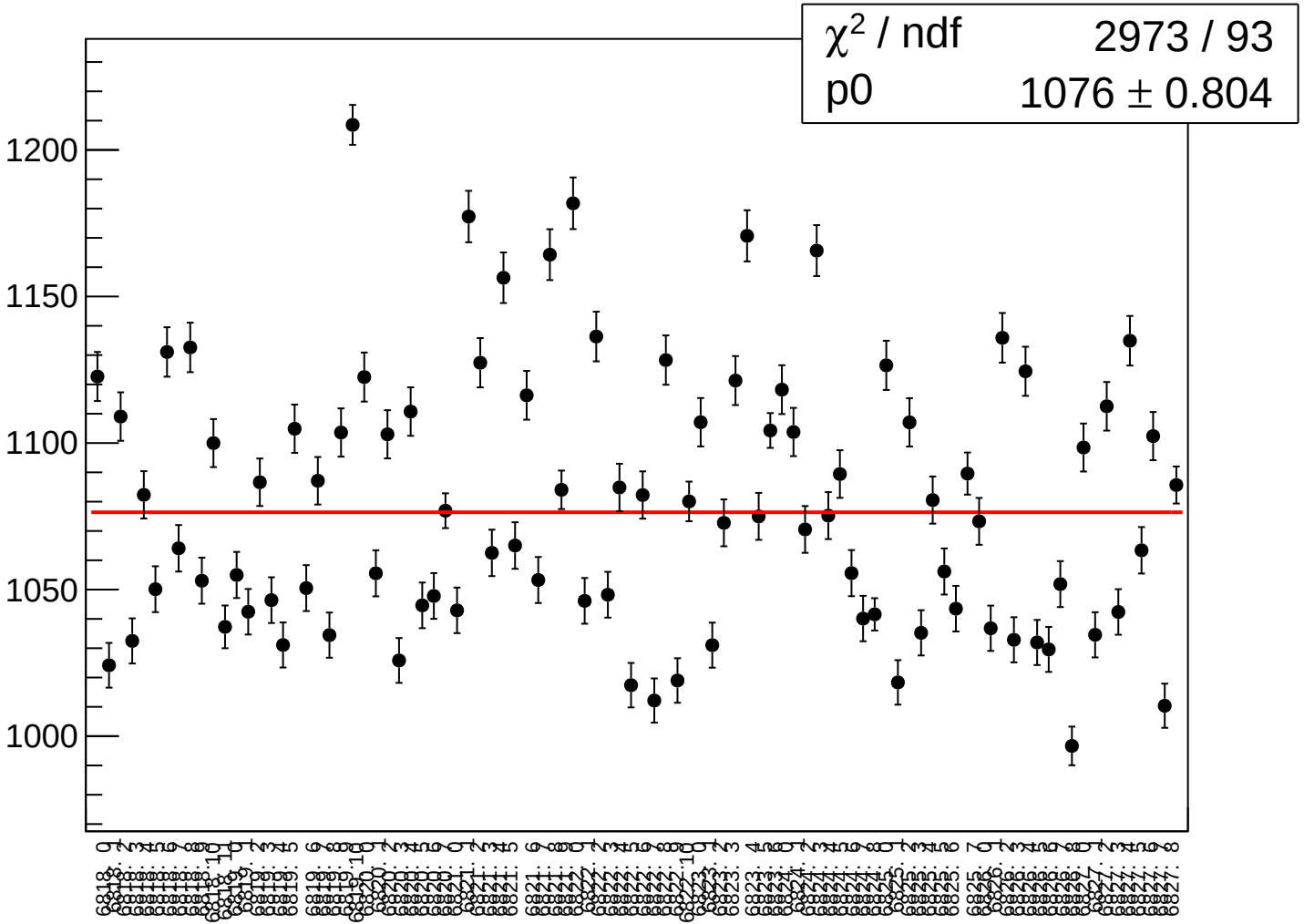

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 73.91 / 93
p0 −117.1± 149
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 578.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

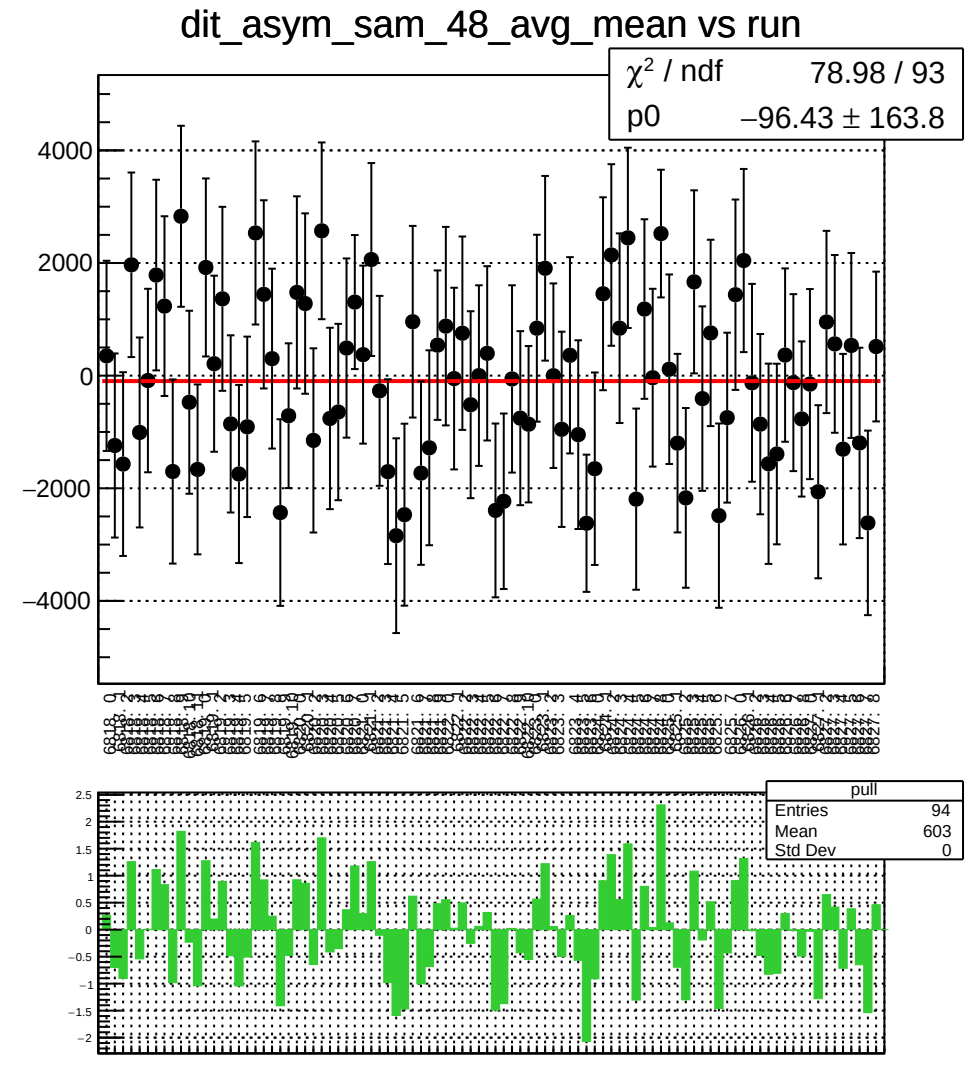

pull1D
Entries 94
Mean −0.003743
Std Dev 0.8867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

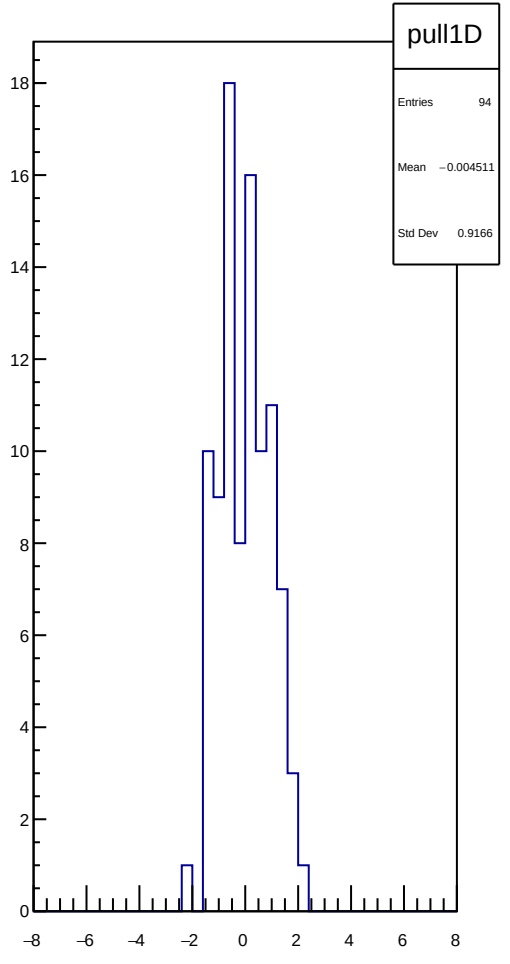

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 1508 / 93
p0 141.1 ± 0.1053
155
150
145
140
135
130

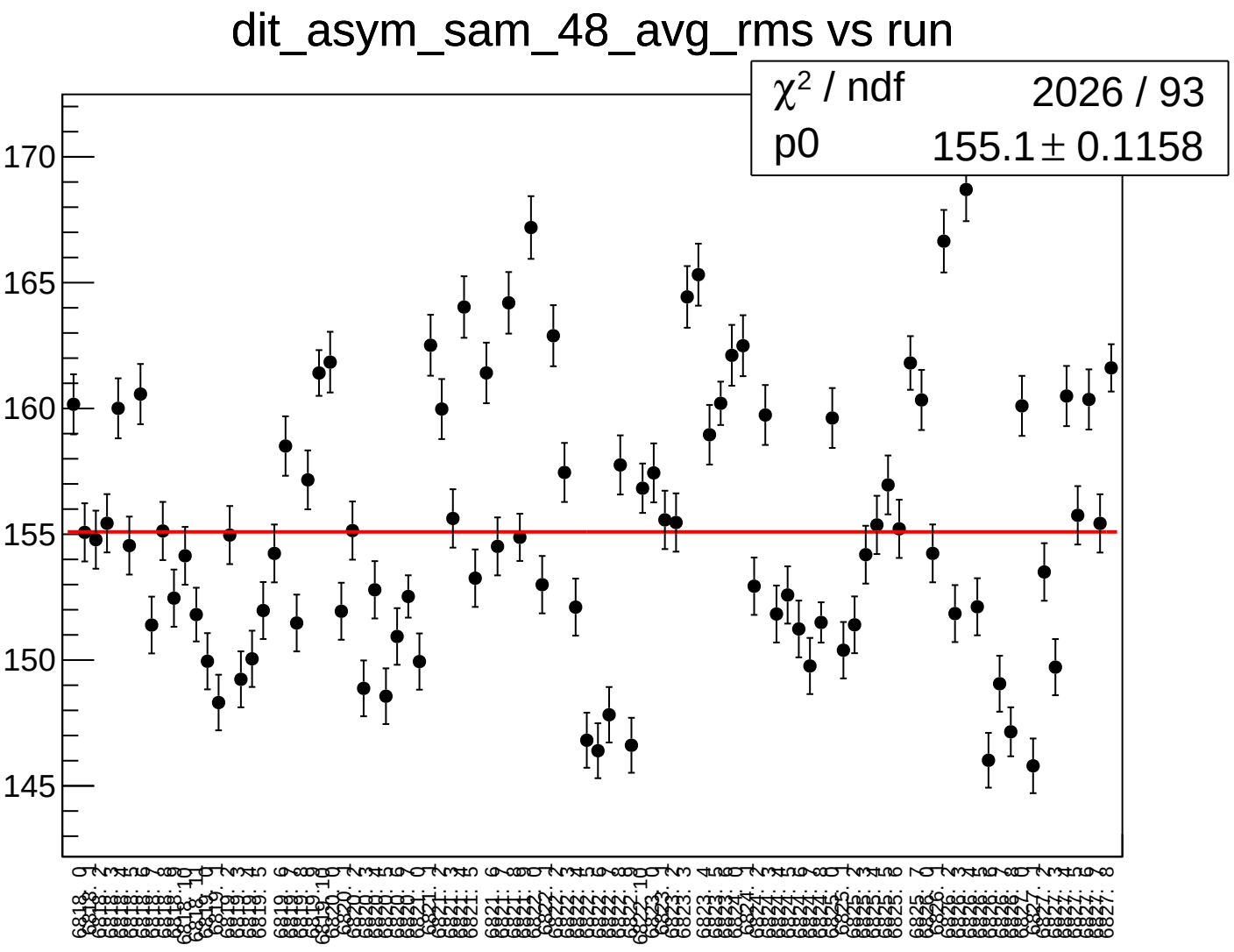

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.82 / 93
p0 −268.6 ± 1137
pull
Entries 94
Mean −152.9
Std Dev 0

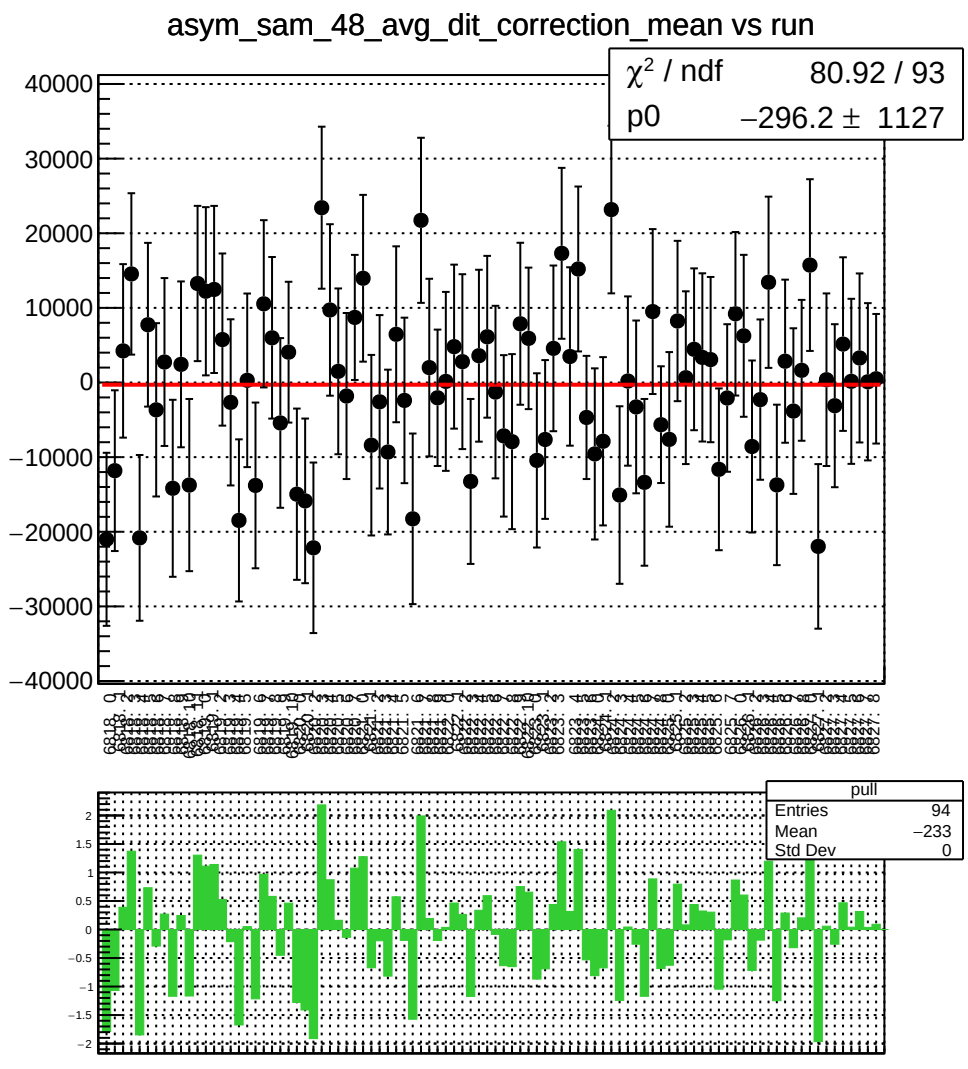

pull1D
Entries 94
Mean −0.006802
Std Dev 0.9215

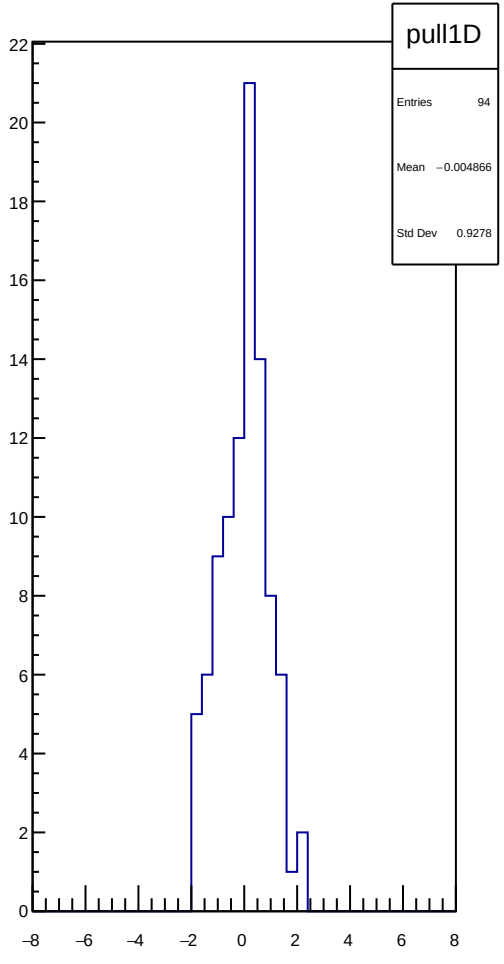

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2973 / 93
p0 1076 ± 0.804
1200
1150
1100
1050
1000

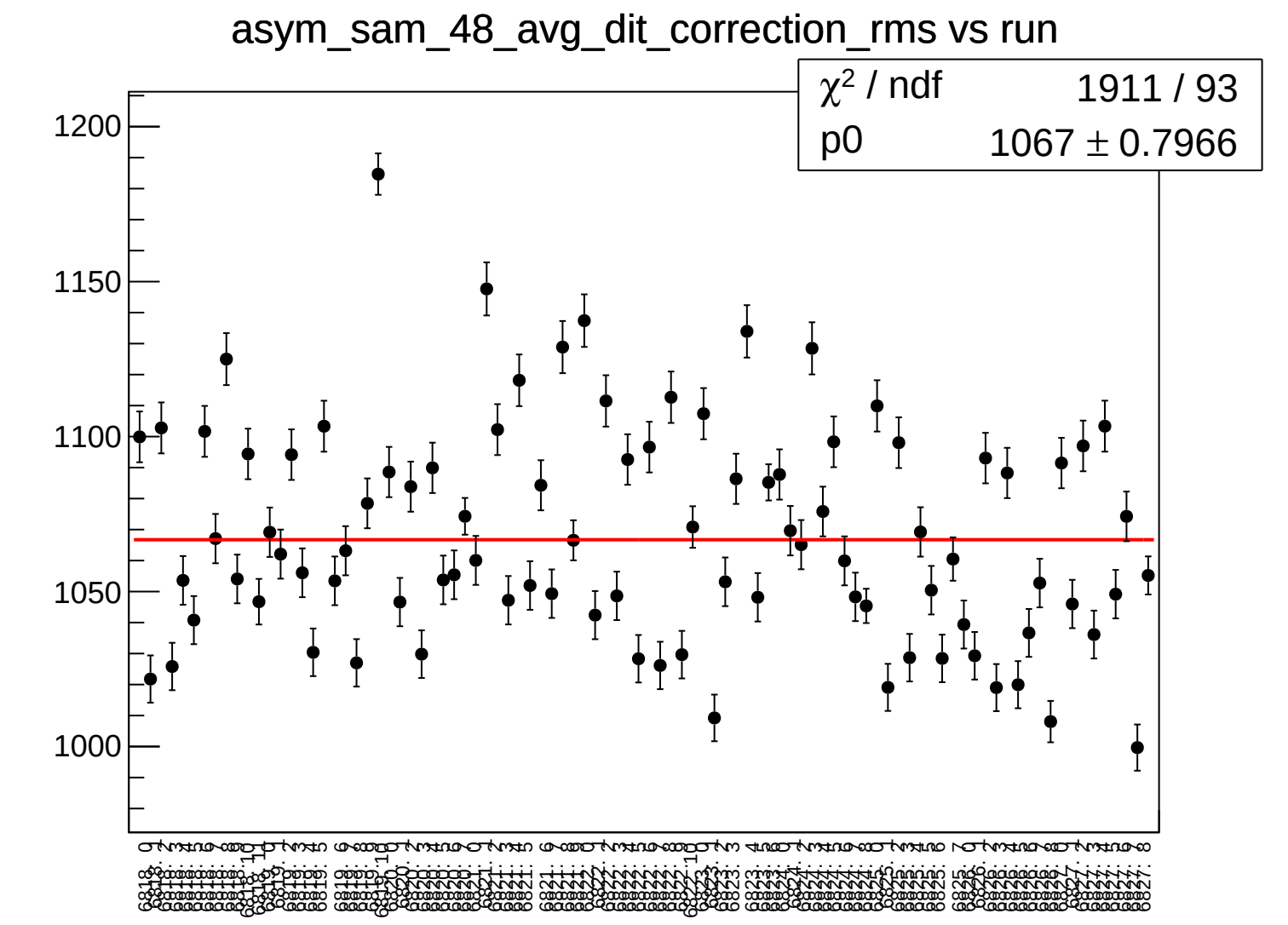

dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.98 / 93
p0 −96.43 ± 163.8
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 603
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

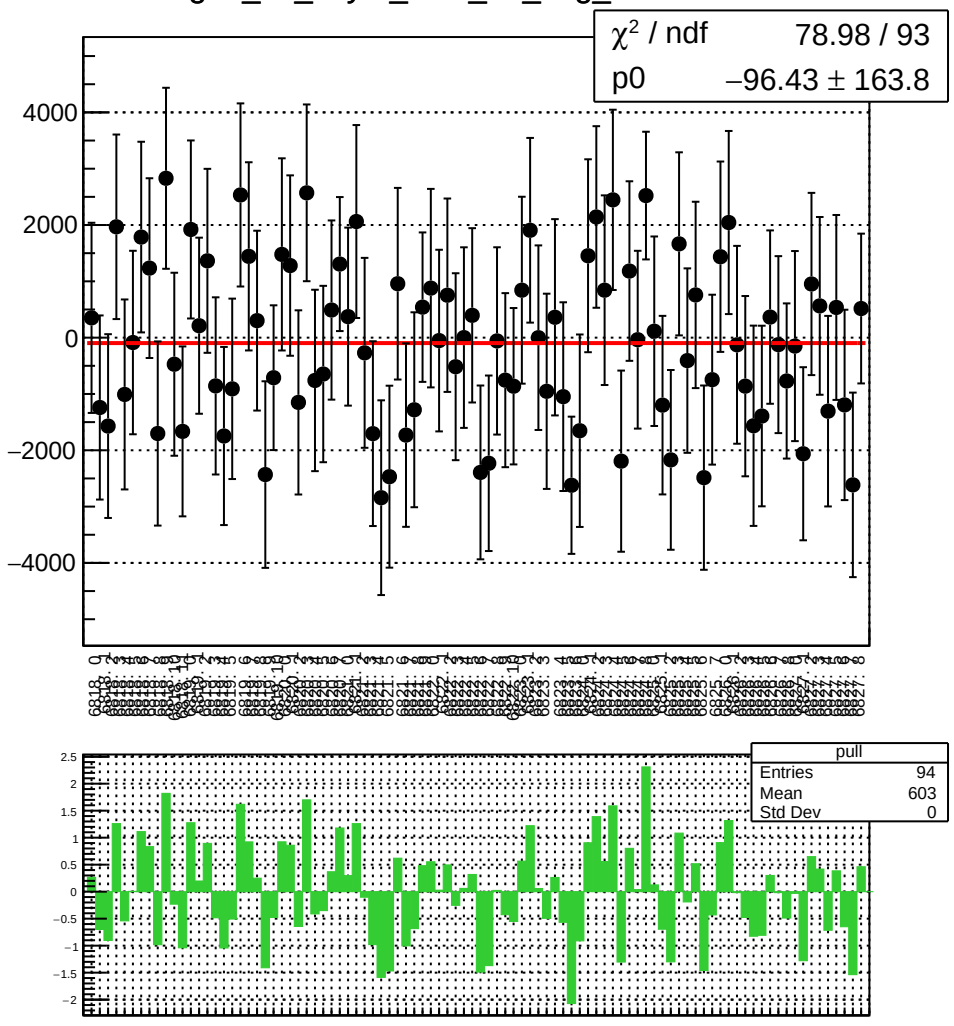

pull1D
Entries 94
Mean −0.004511
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

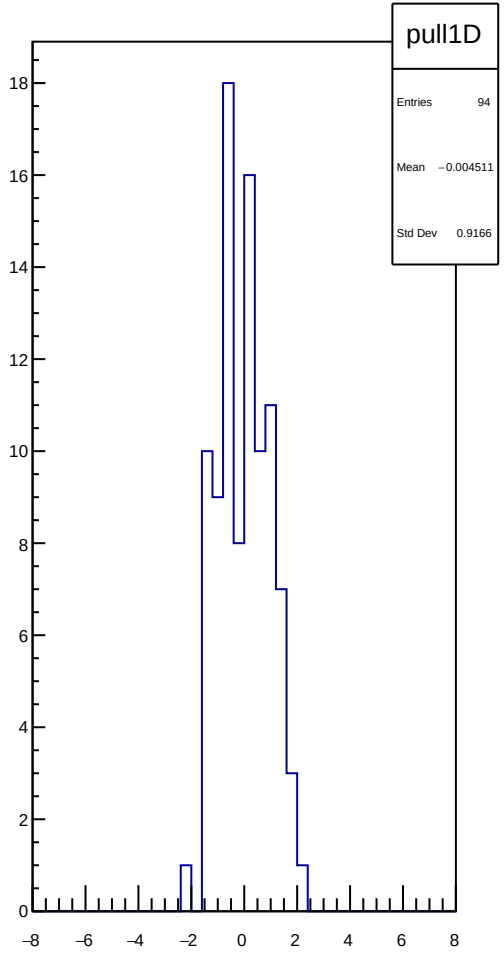

dit_asym_sam_48_avg_rms vs run
χ² / ndf 2026 / 93
p0 155.1 ± 0.1158
170
165
160
155
150
145

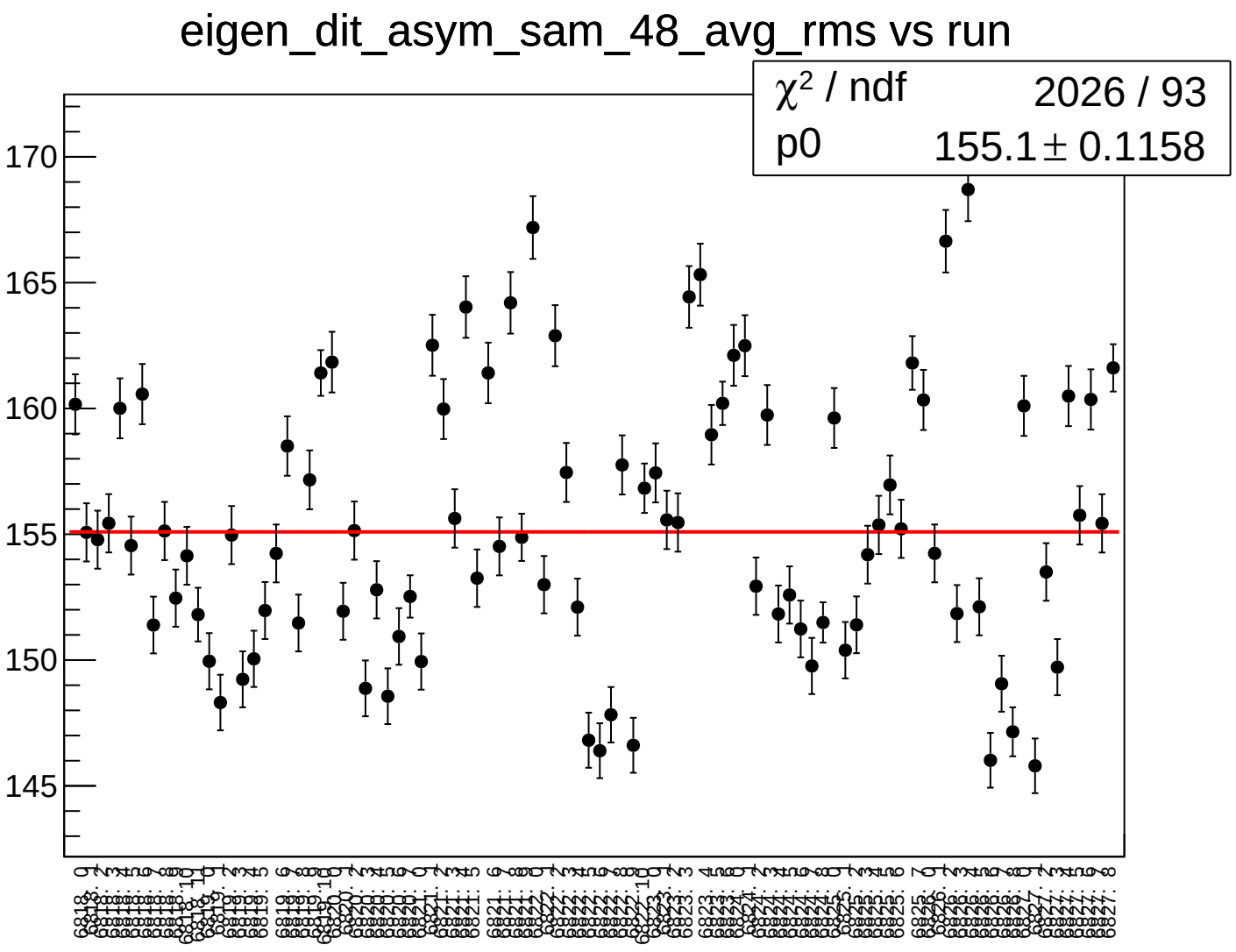

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 80.92 / 93
p0 −296.2 ± 1127
pull
Entries 94
Mean −233
Std Dev 0

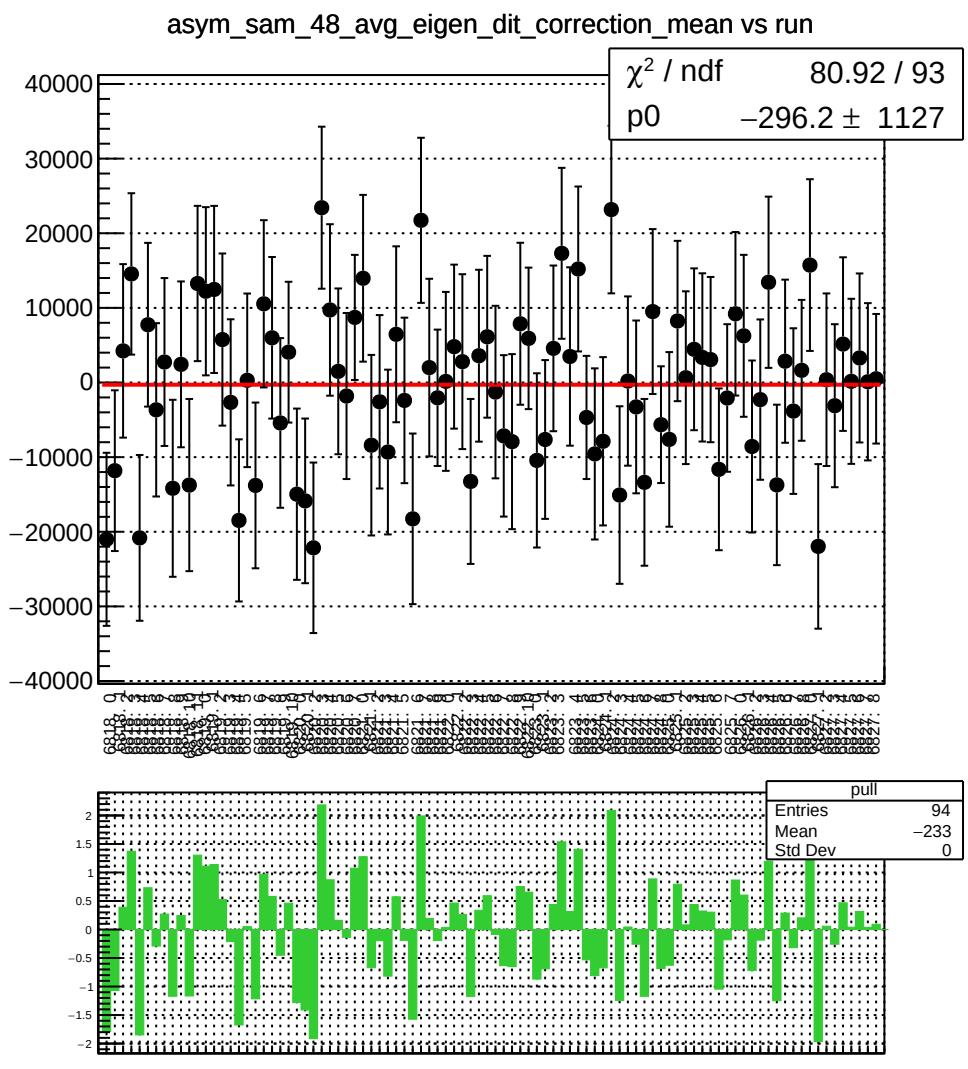

pull1D
Entries 94
Mean −0.004866
Std Dev 0.9278

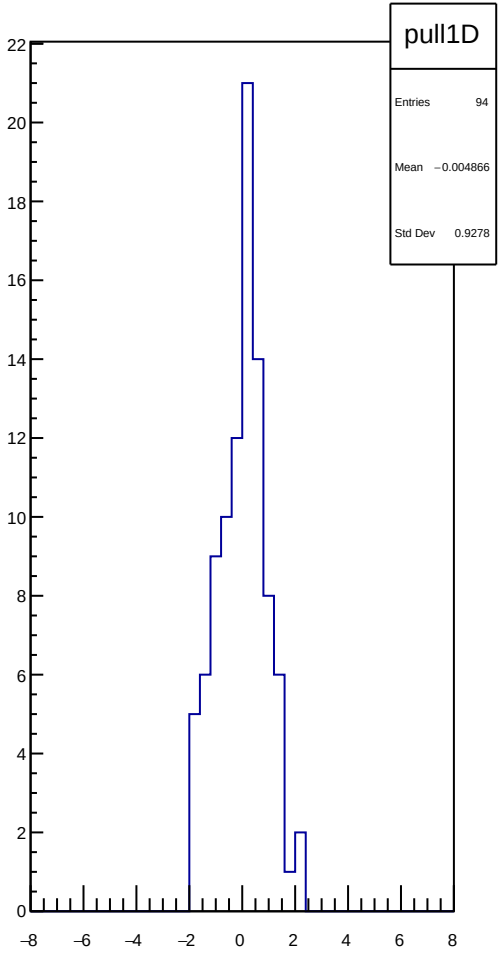

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1911 / 93
p0 1067 ± 0.7966
1200
1150
1100
1050
1000

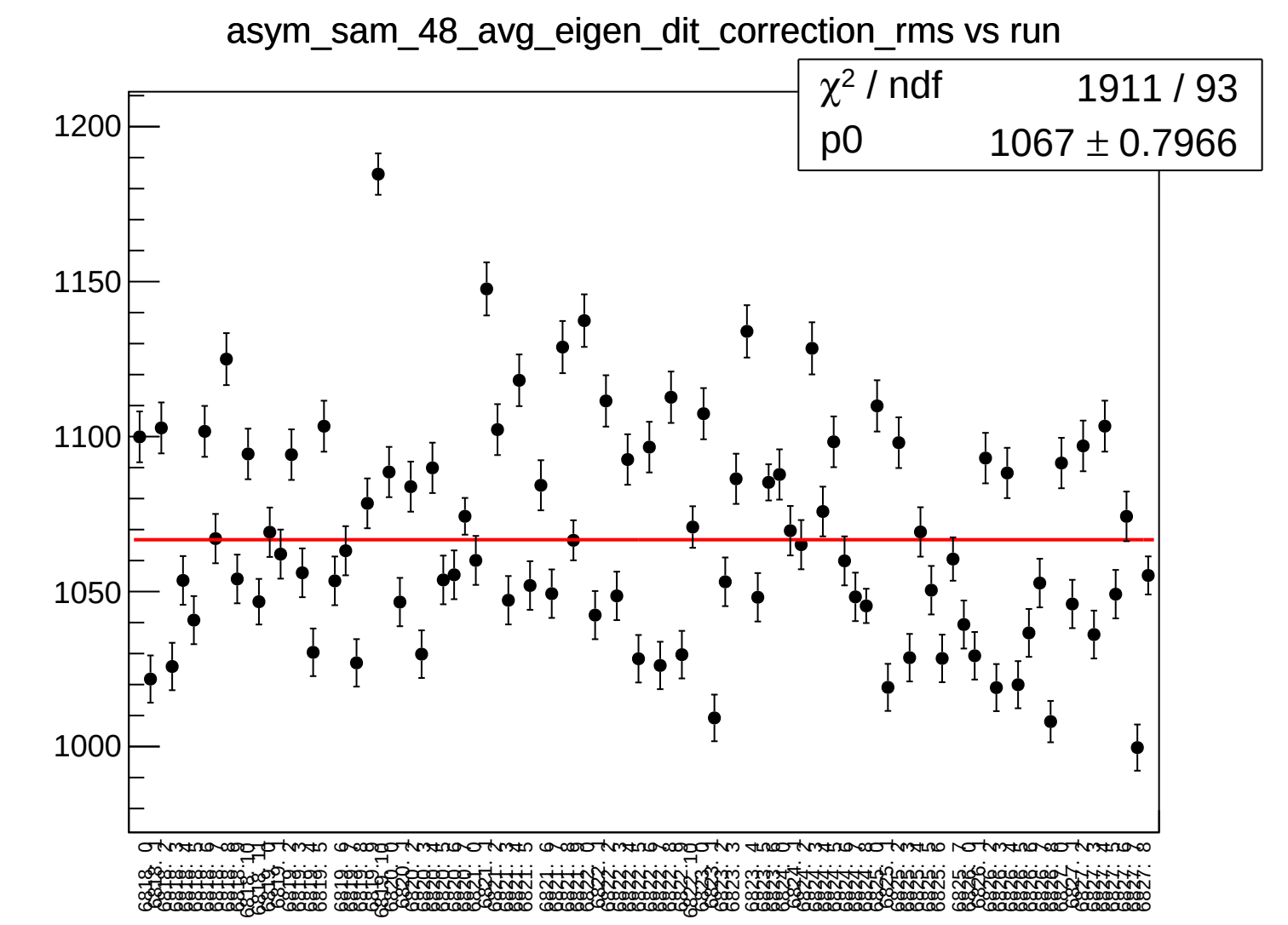

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 78.98 / 93
p0 −96.43 ± 163.8
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 603
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

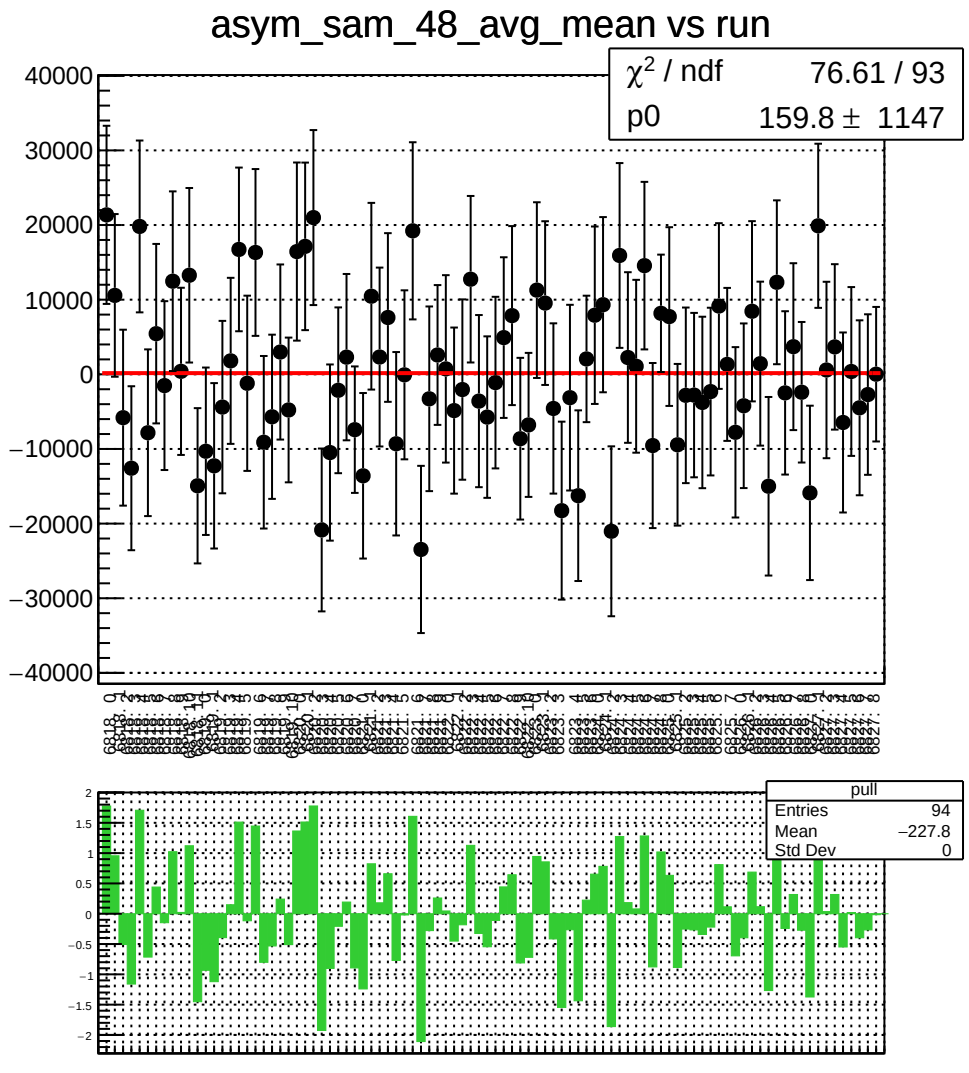

pull1D
Entries 94
Mean −0.004511
Std Dev 0.9166
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

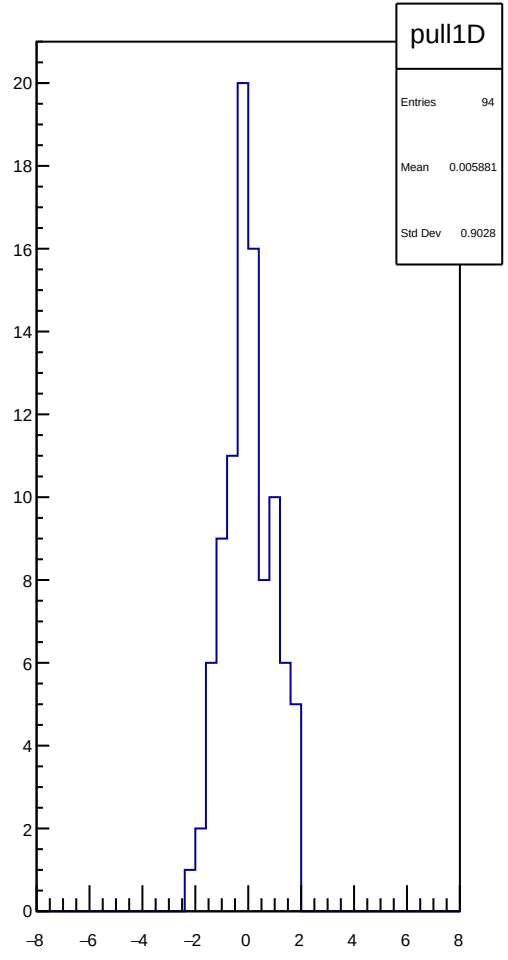

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 2026 / 93
p0 155.1 ± 0.1158
170
165
160
155
150
145

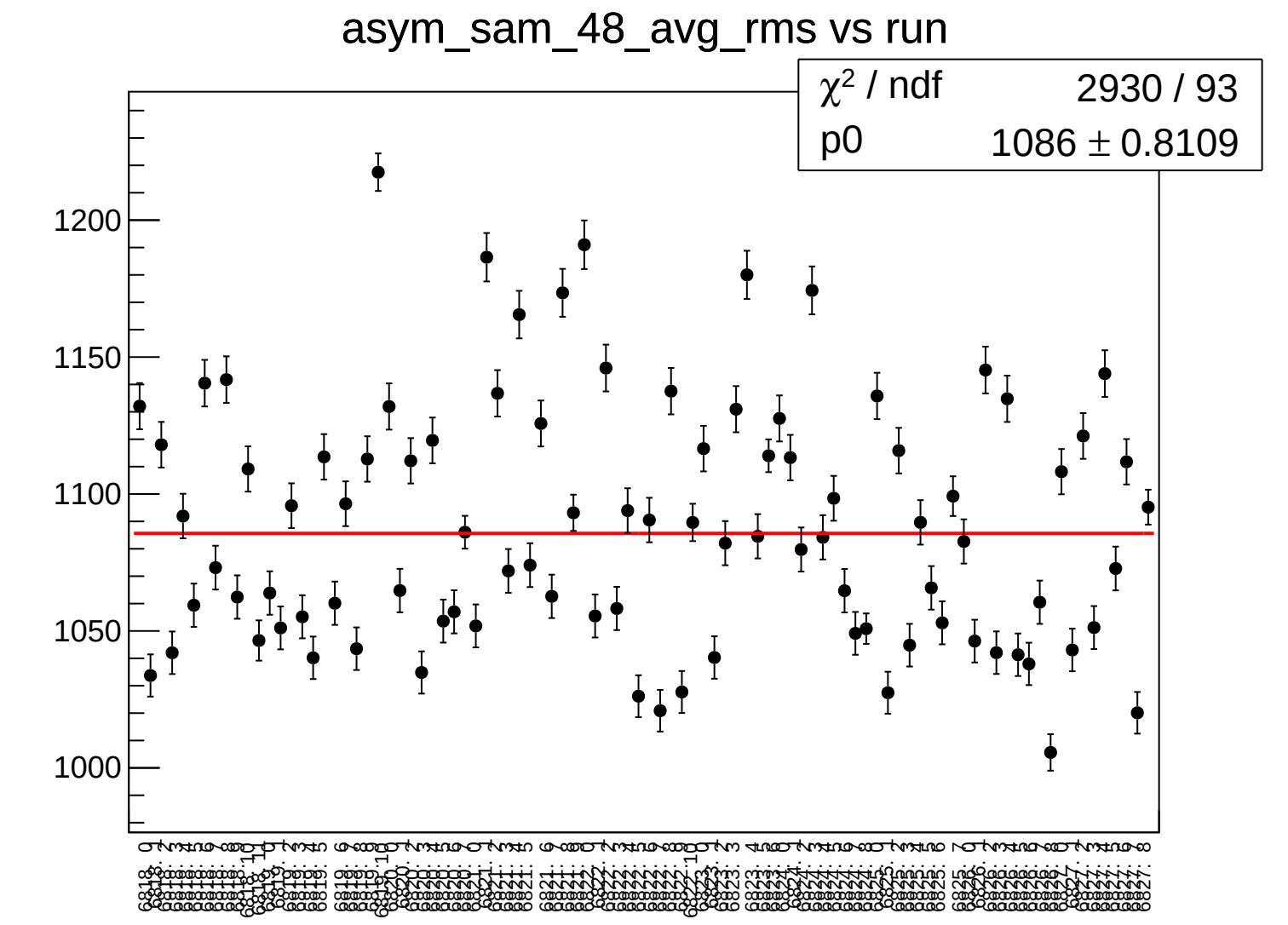

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 80.92 / 93
p0 −296.2 ± 1127
pull
Entries 94
Mean −233
Std Dev 0

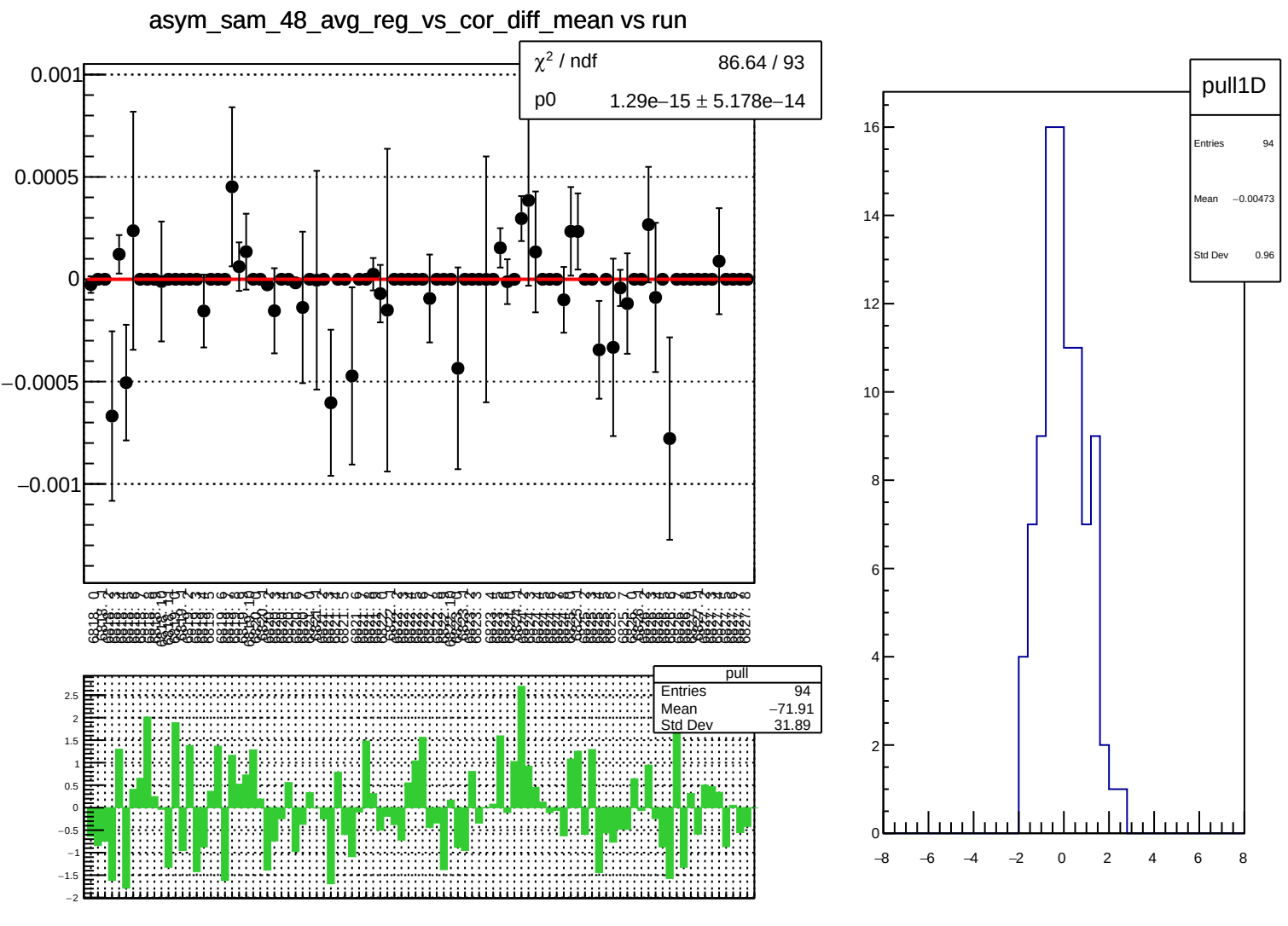

pull1D
Entries 94
Mean −0.004866
Std Dev 0.9278

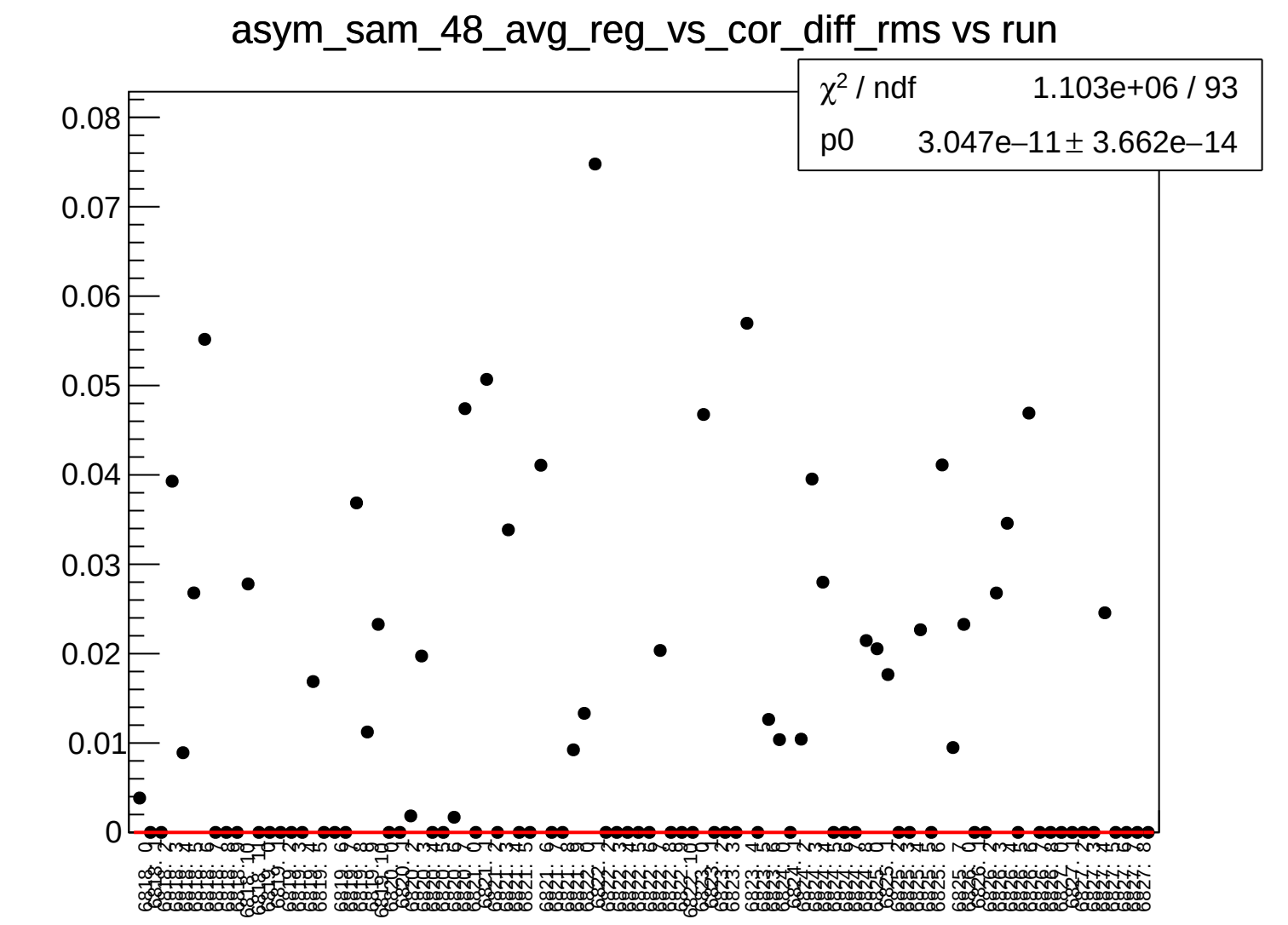

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1911 / 93
p0 1067 ± 0.7966
1200
1150
1100
1050
1000

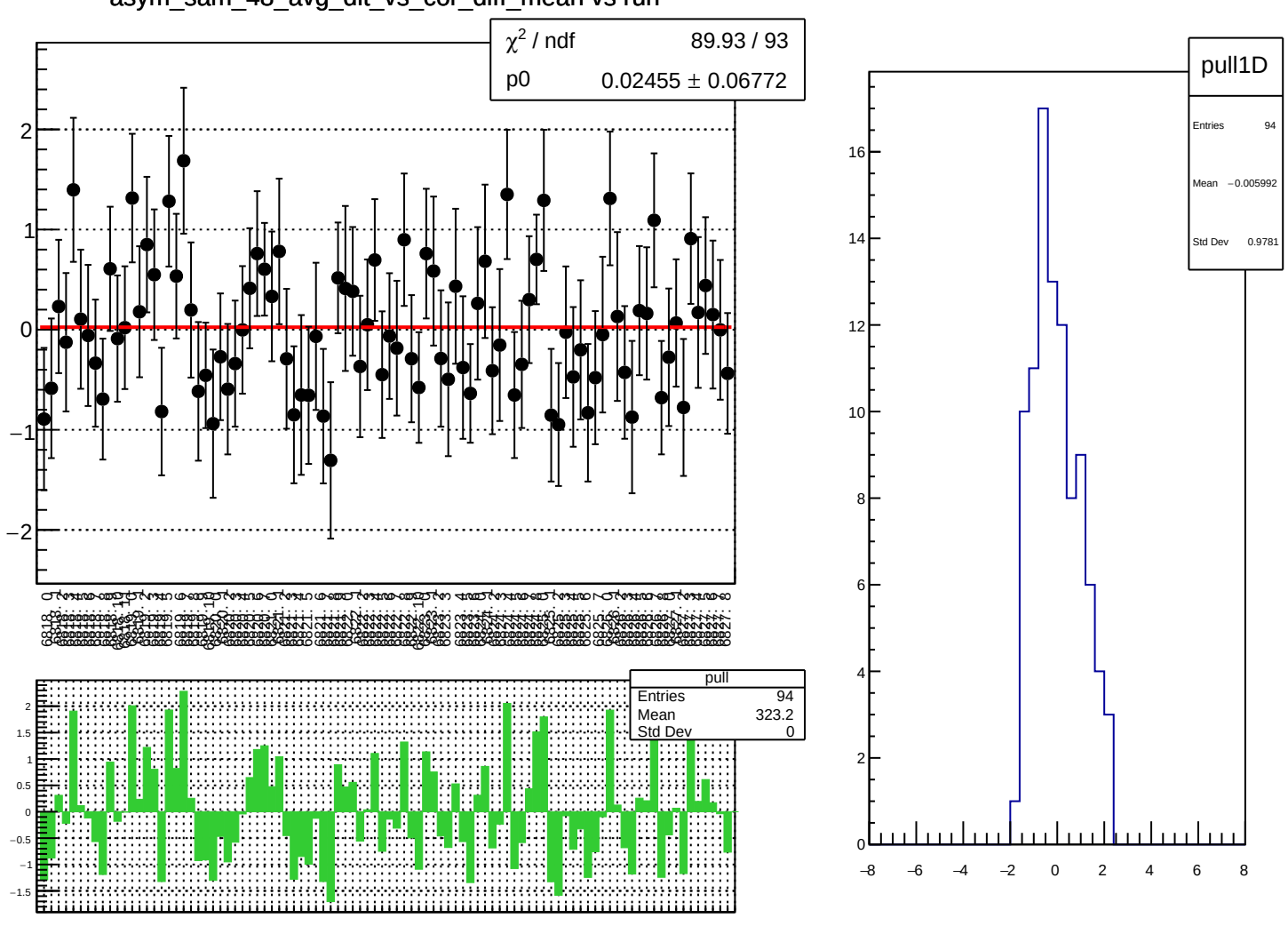

asym_sam_48_avg_mean vs run
χ² / ndf 76.61 / 93
p0 159.8 ± 1147
pull
Entries 94
Mean −227.8
Std Dev 0

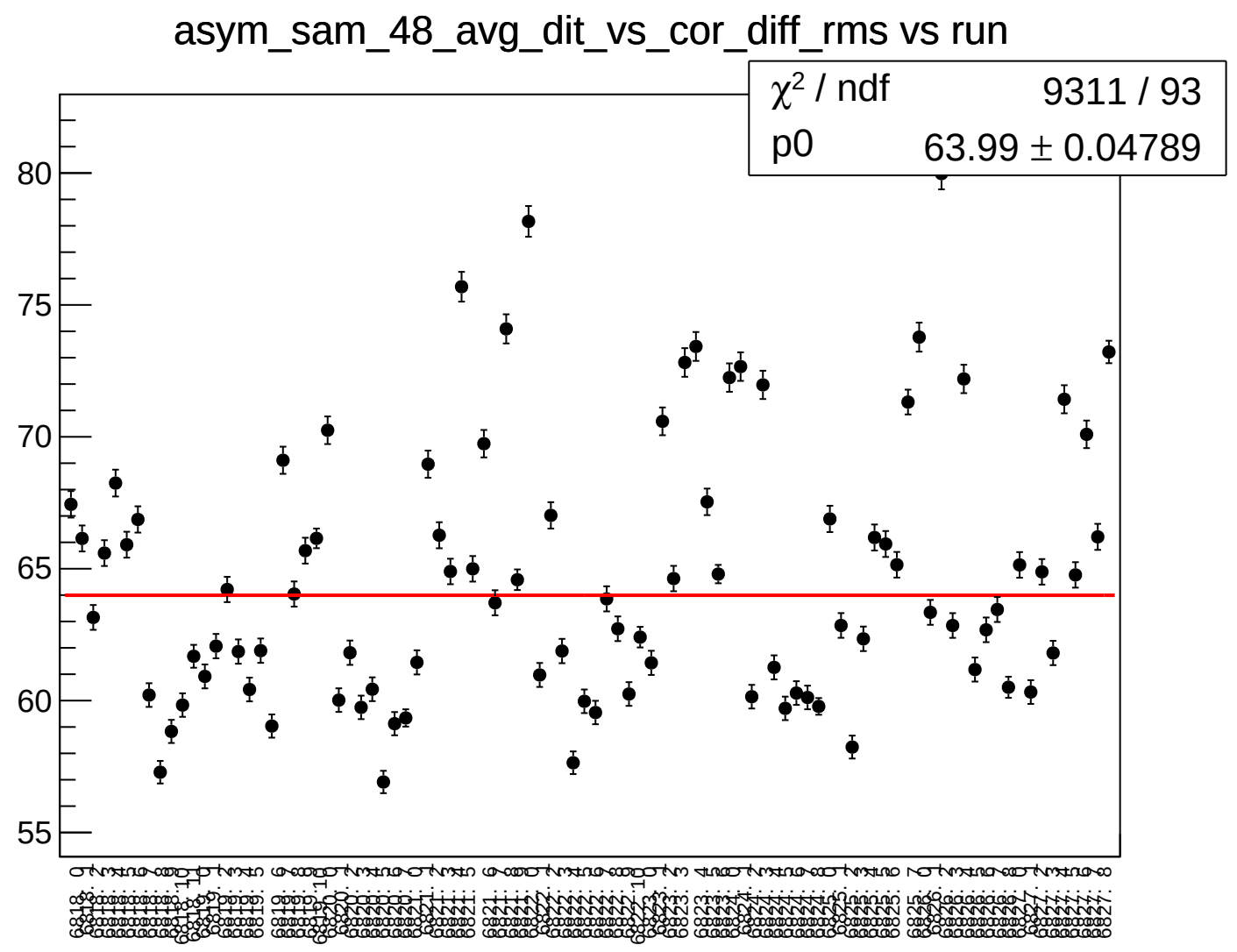

pull1D
Entries 94
Mean 0.005881
Std Dev 0.9028

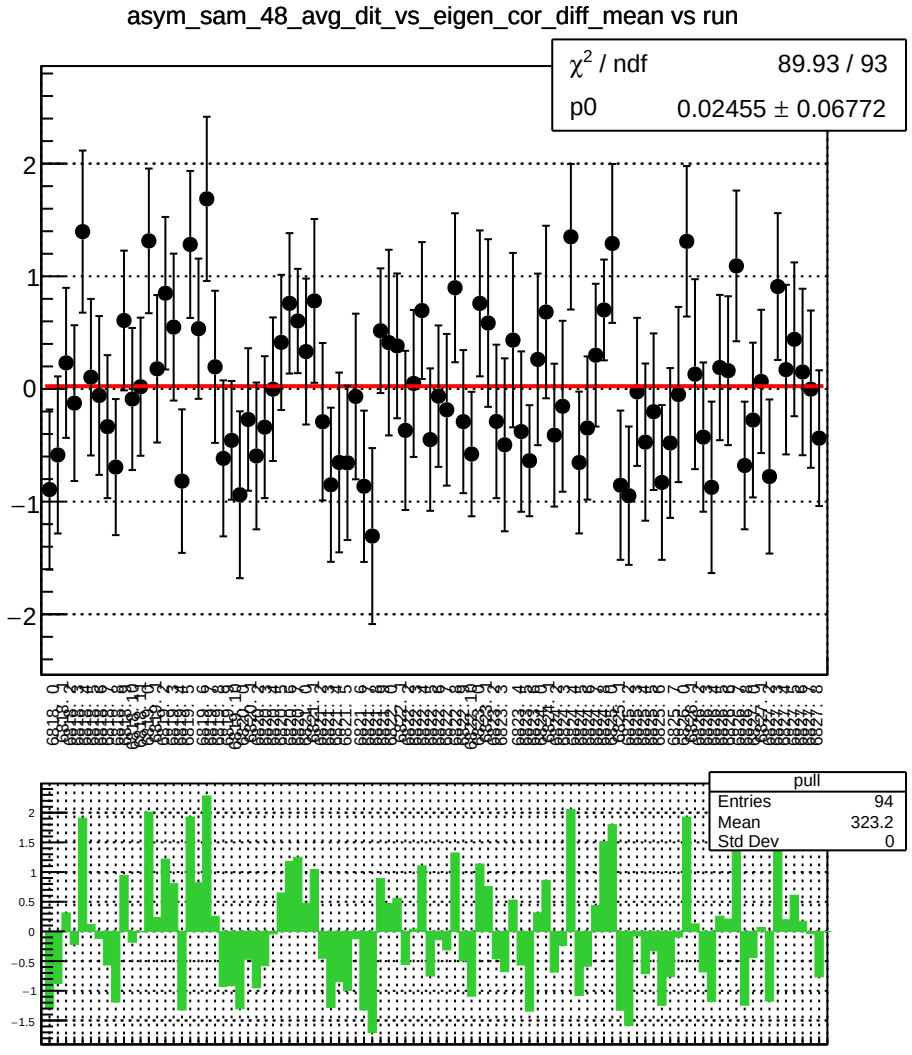

asym_sam_48_avg_rms vs run
χ² / ndf 2930 / 93
p0 1086 ± 0.8109
1200
1150
1100
1050
1000

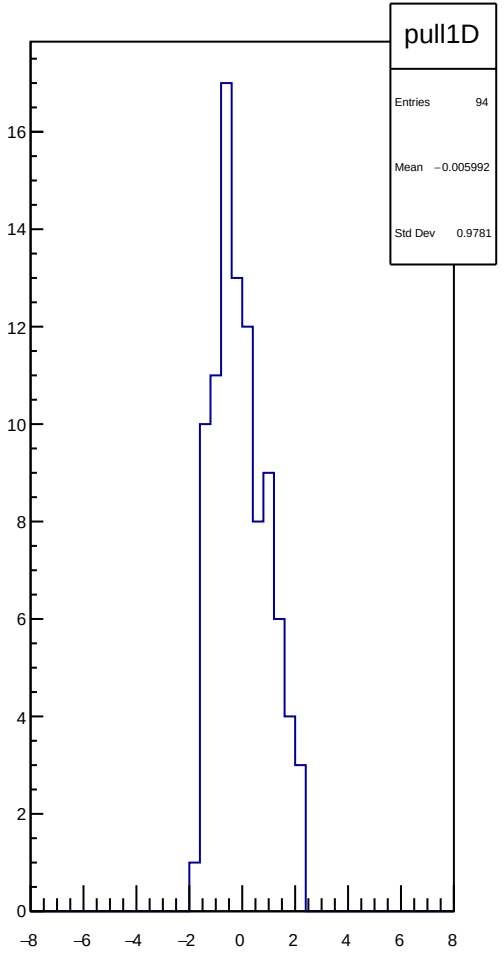

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.64 / 93
p0 1.29e−15 ± 5.178e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean −71.91
Std Dev 31.89
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.00473
Std Dev 0.96
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

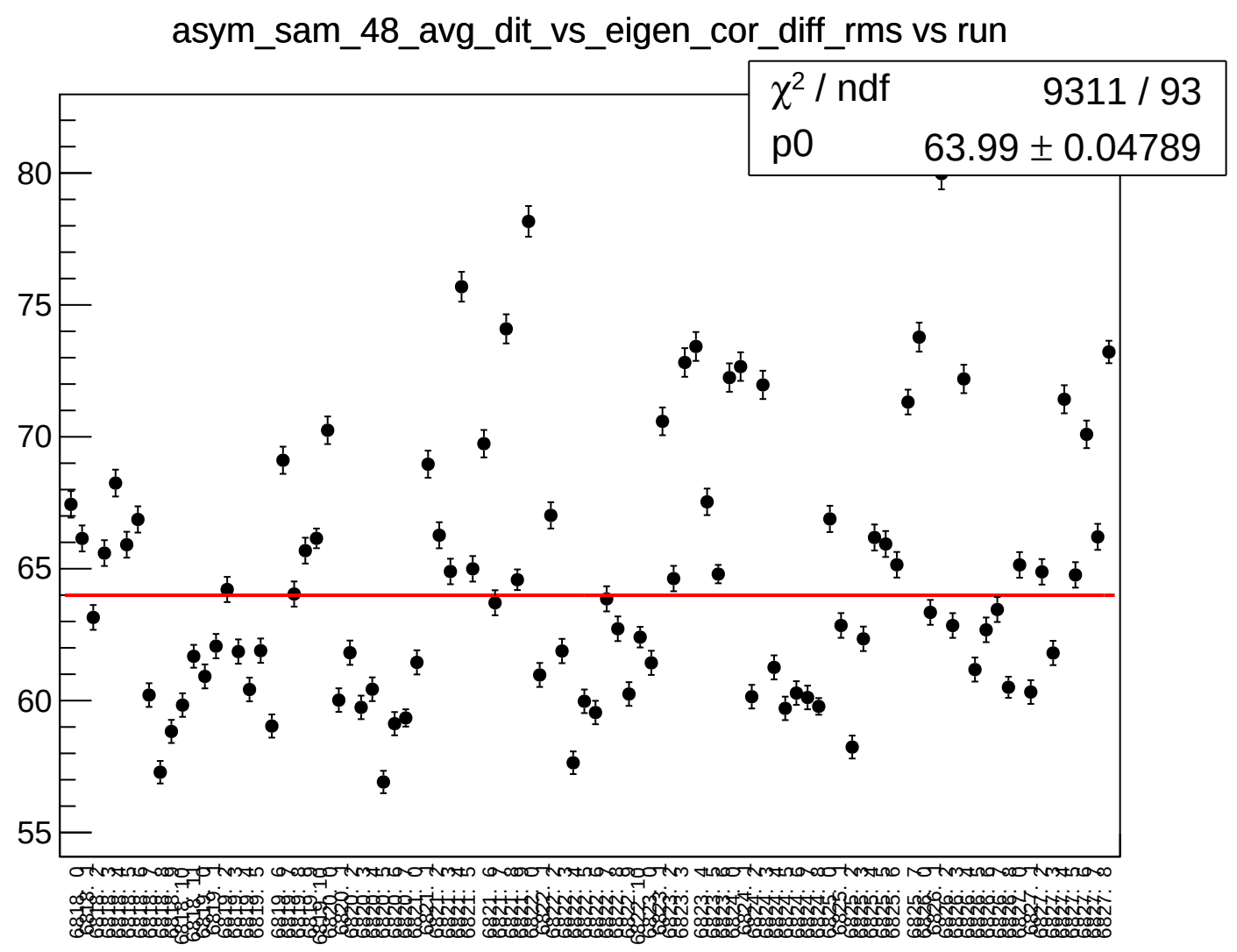

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 93
p0 3.047e−11 ± 3.662e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

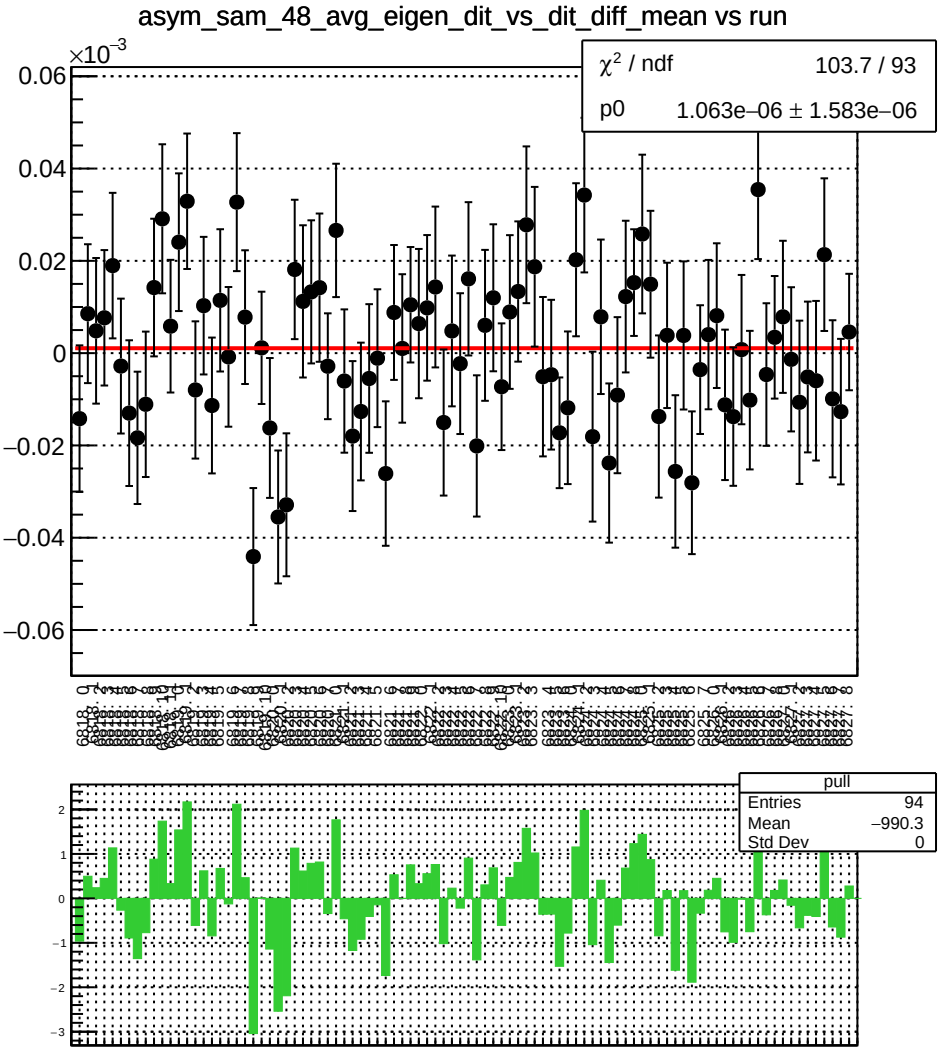

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 93
p0 0.02455 ± 0.06772
pull
Entries 94
Mean 323.2
Std Dev 0
pull1D
Entries 94
Mean −0.005992
Std Dev 0.9781

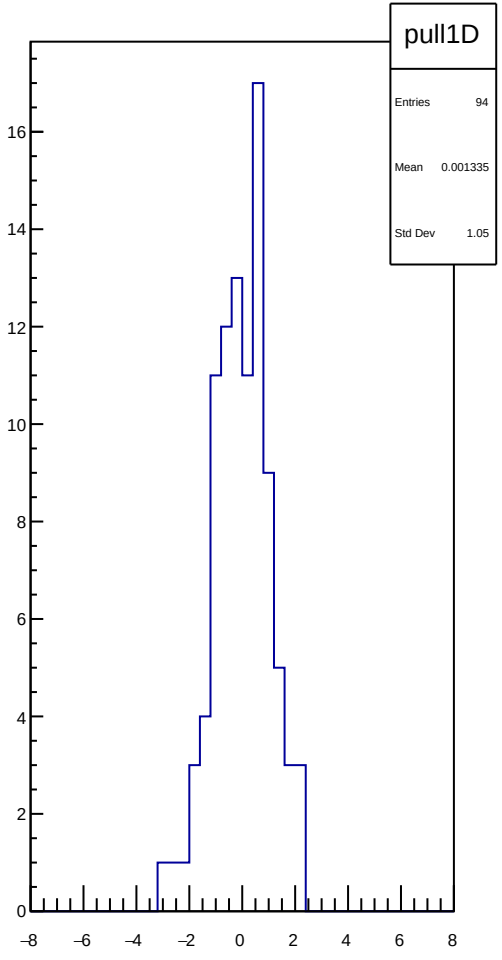

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9311 / 93
p0 63.99 ± 0.04789
80
75
70
65
60
55

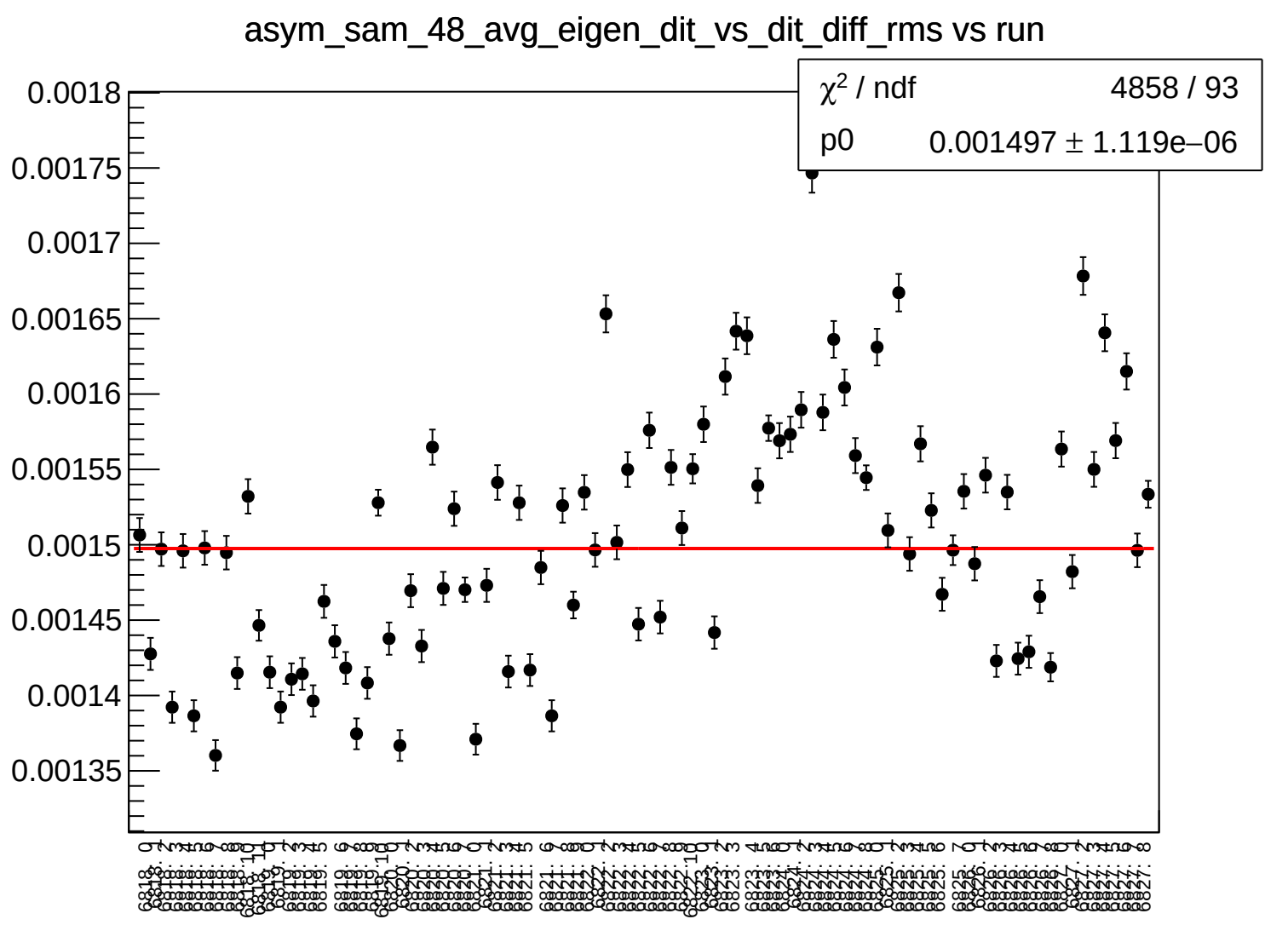

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 93
p0 0.02455 ± 0.06772
pull
Entries 94
Mean 323.2
Std Dev 0

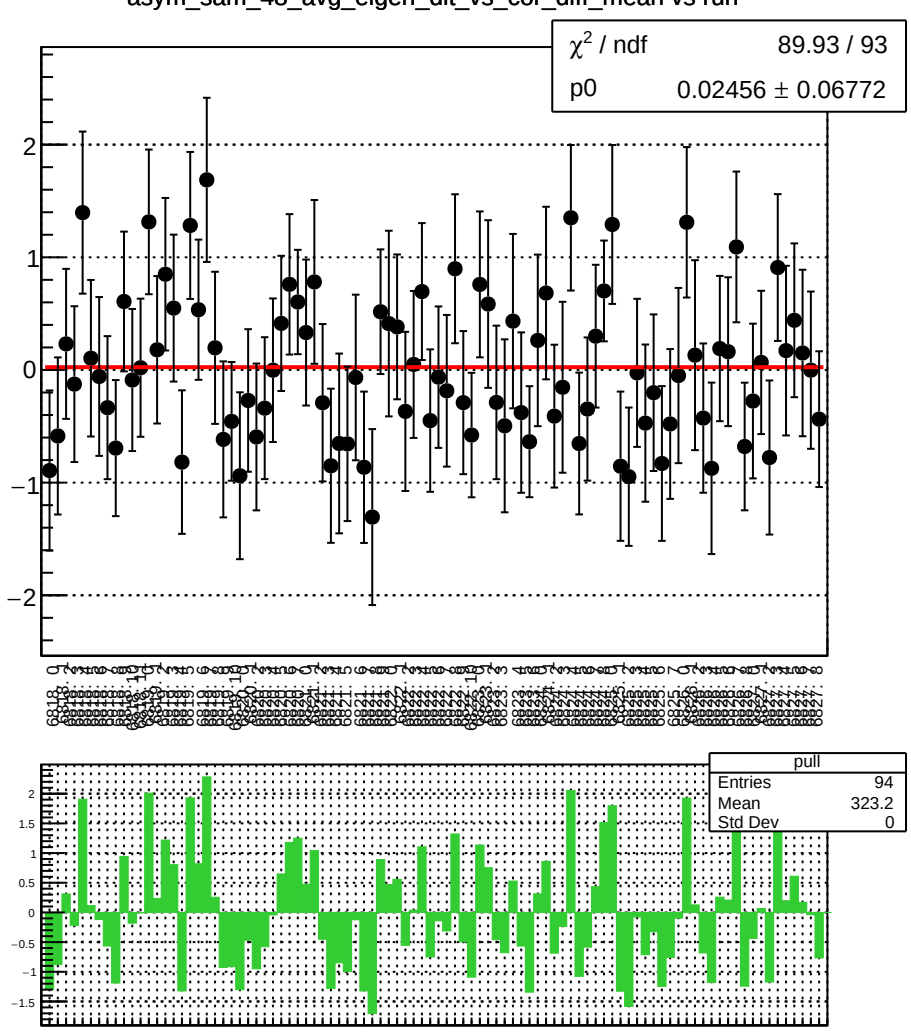

pull1D
Entries 94
Mean −0.005992
Std Dev 0.9781

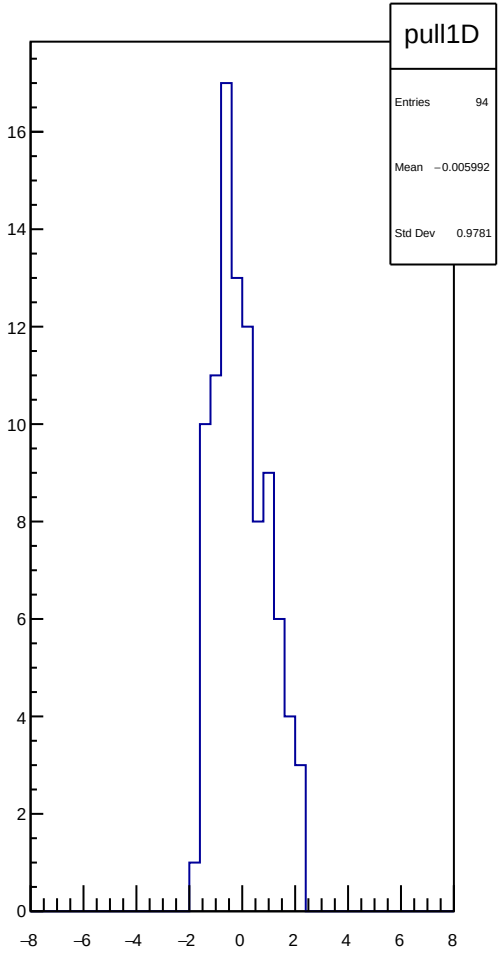

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9311 / 93
p0 63.99 ± 0.04789
80
75
70
65
60
55

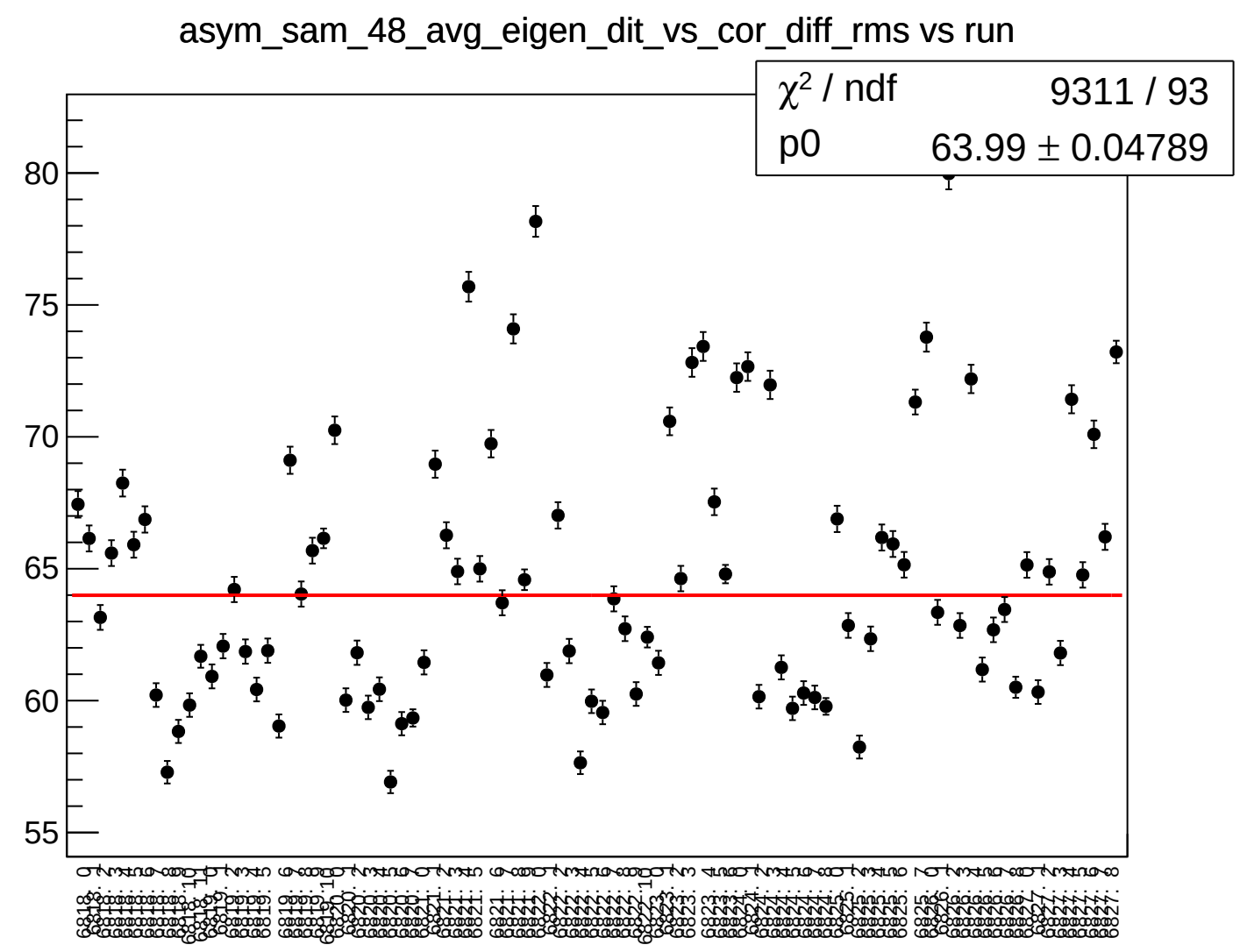

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.7 / 93
p0 1.063e−06 ± 1.583e−06
pull
Entries 94
Mean −990.3
Std Dev 0

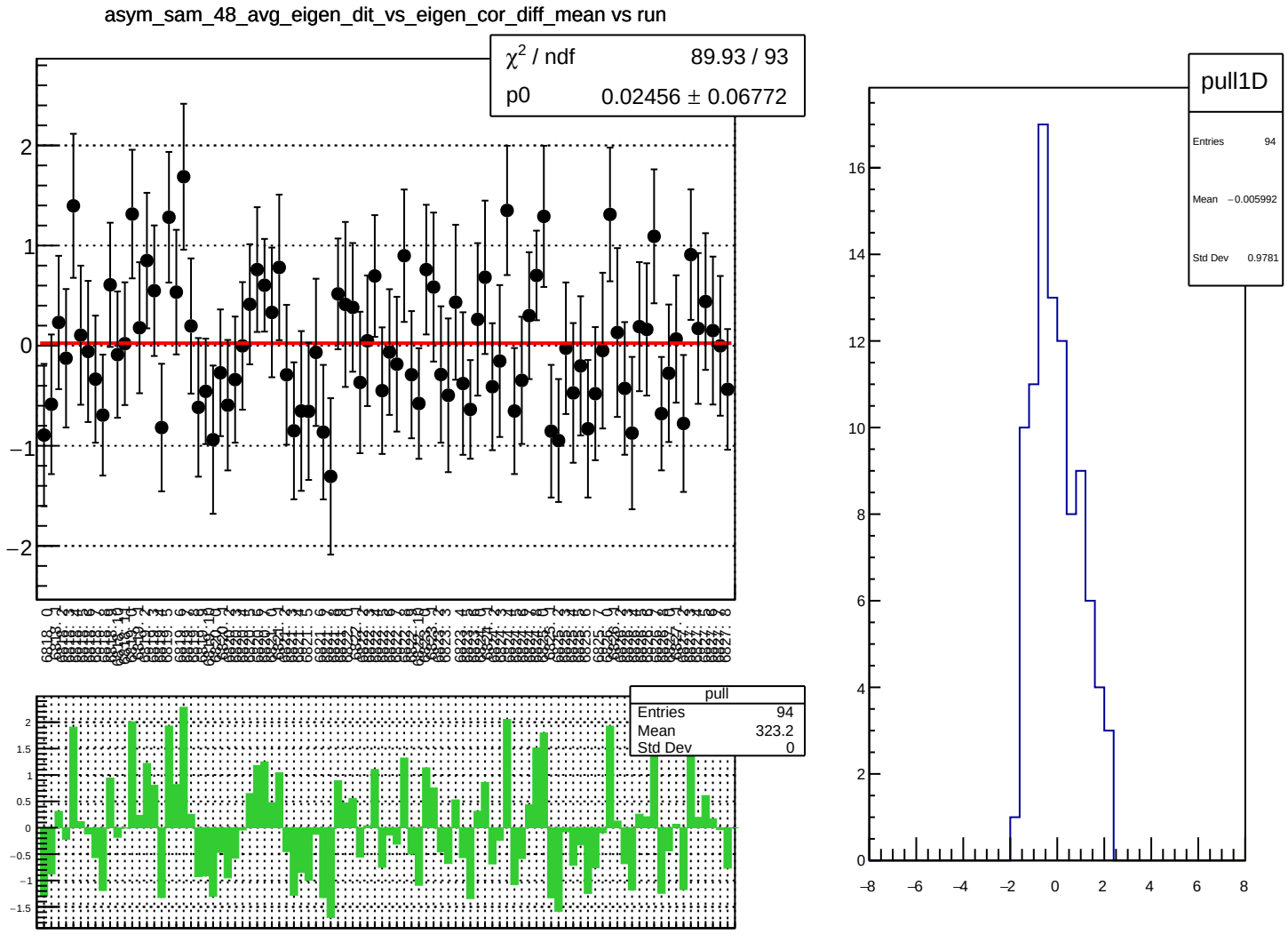

pull1D
Entries 94
Mean 0.001335
Std Dev 1.05

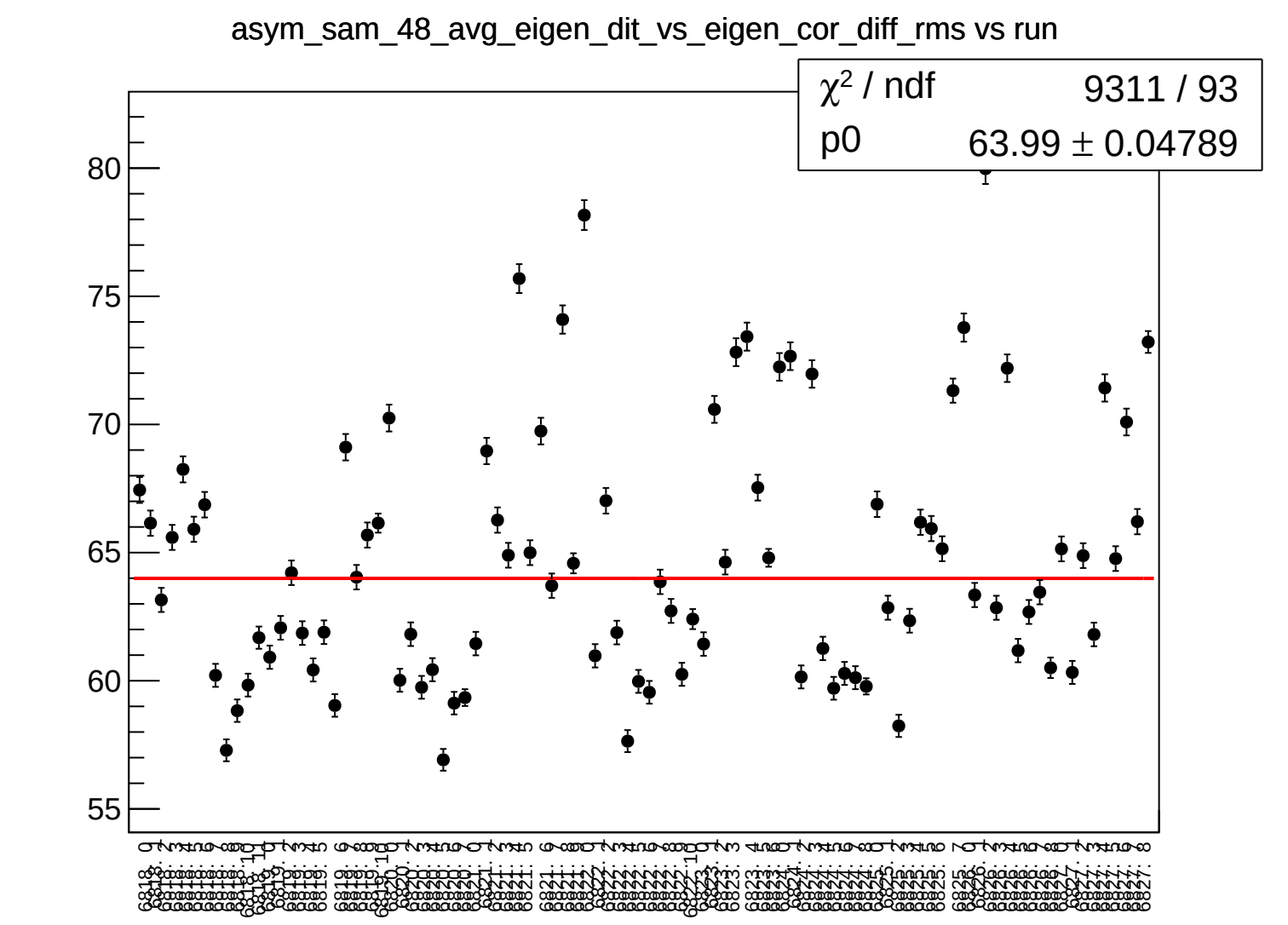

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4858 / 93
p0 0.001497 ± 1.119e−06
0.0018
0.00175
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

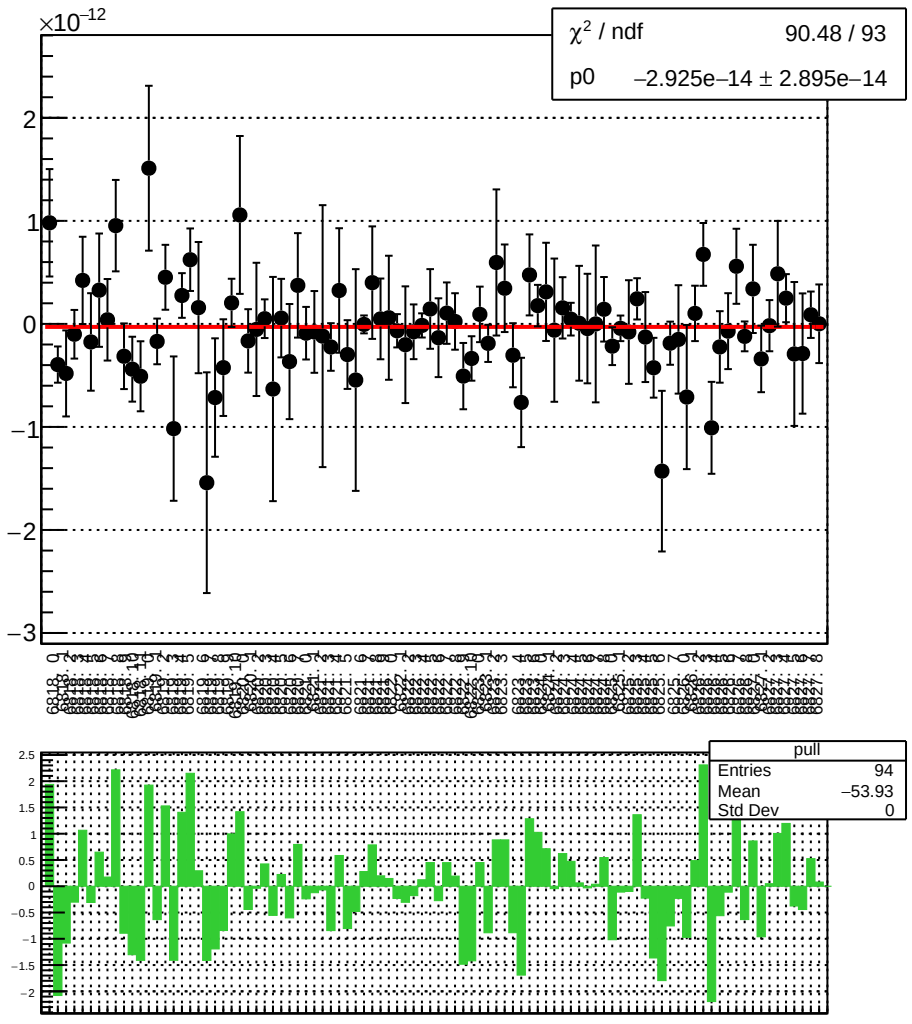

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.93 / 93
p0 0.02456 ± 0.06772
pull
Entries 94
Mean 323.2
Std Dev 0

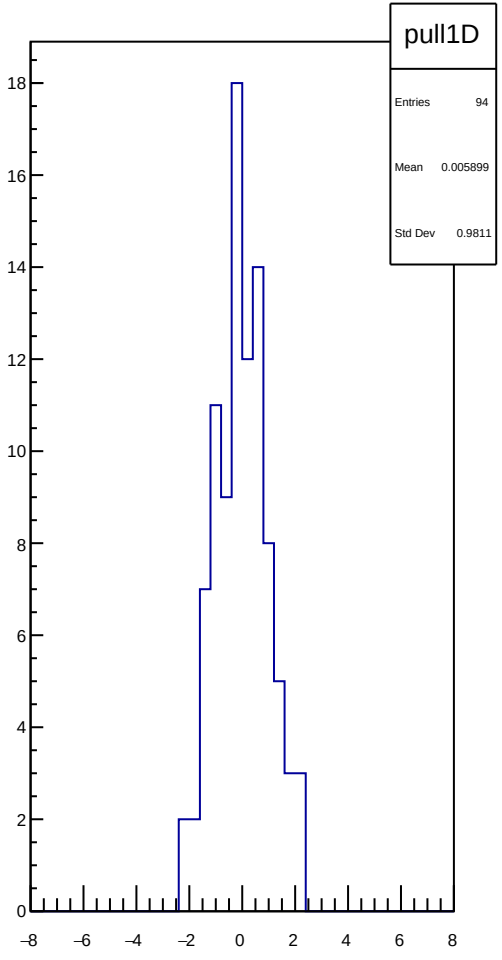

pull1D
Entries 94
Mean −0.005992
Std Dev 0.9781

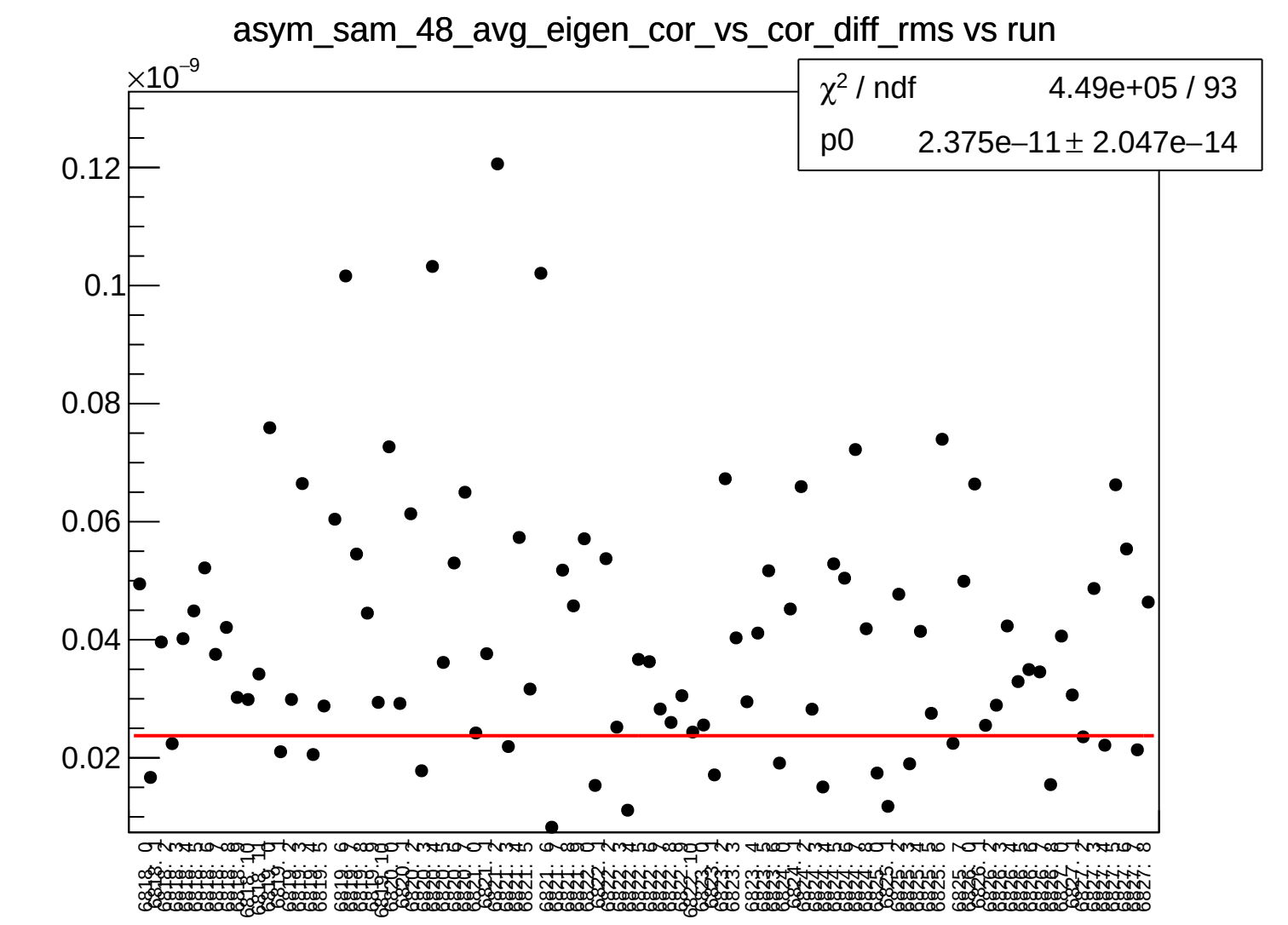

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9311 / 93
p0 63.99 ± 0.04789
80
75
70
65
60
55

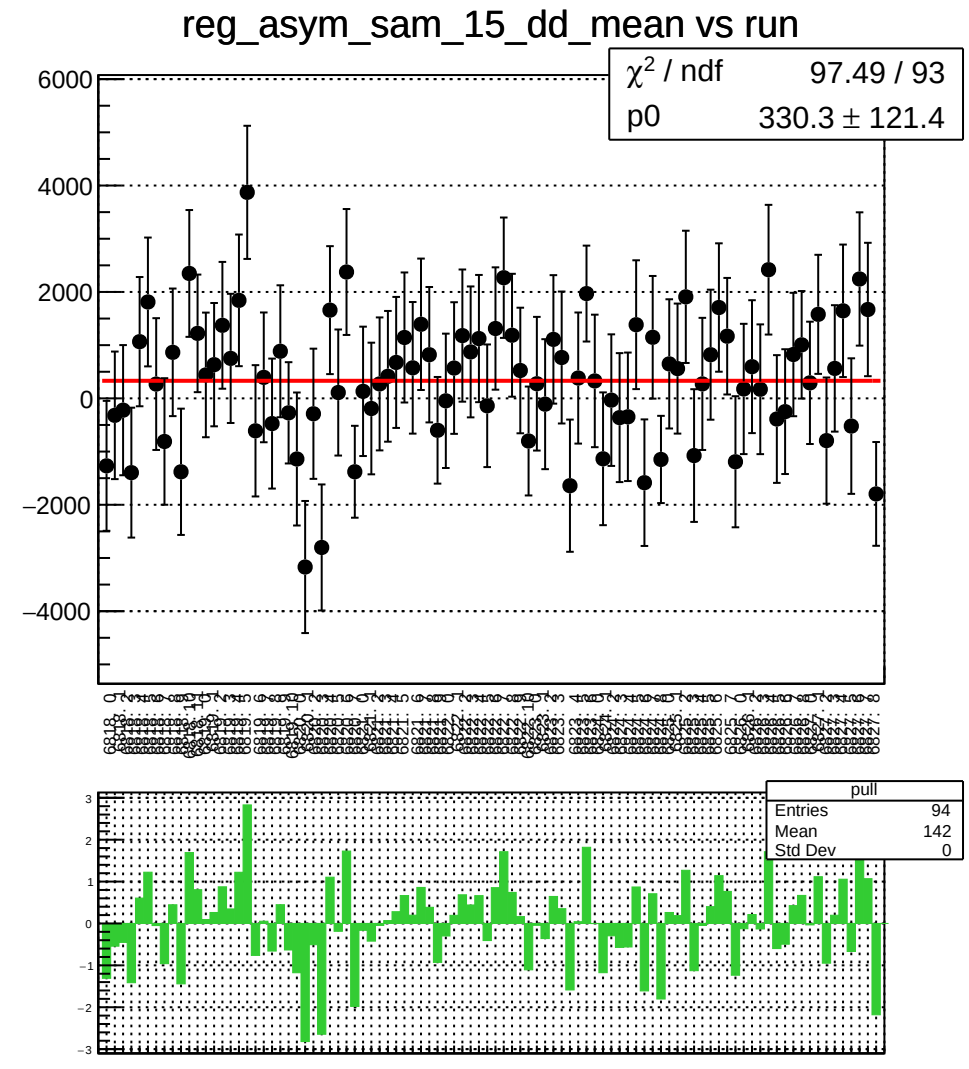

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.93 / 93
p0 0.02456 ± 0.06772
pull
Entries 94
Mean 323.2
Std Dev 0
pull1D
Entries 94
Mean −0.005992
Std Dev 0.9781

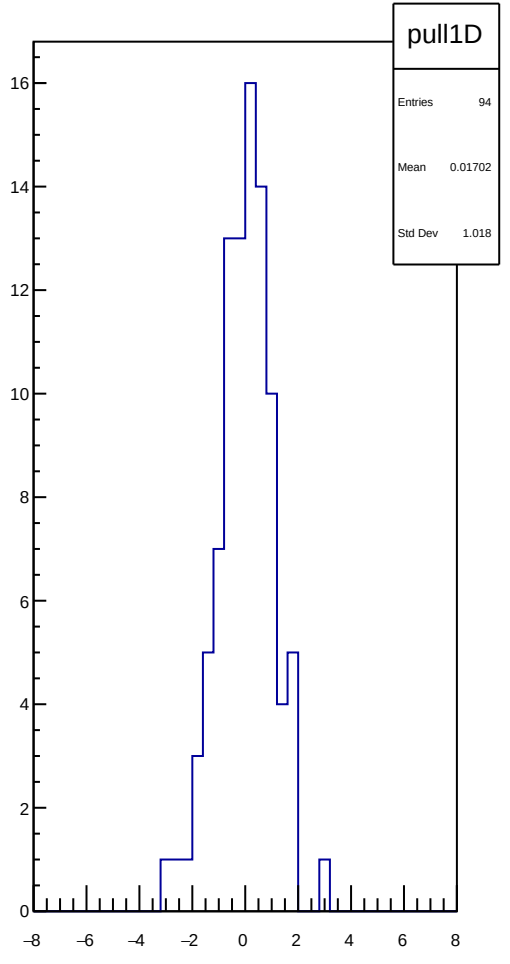

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9311 / 93
p0 63.99 ± 0.04789
80
75
70
65
60
55

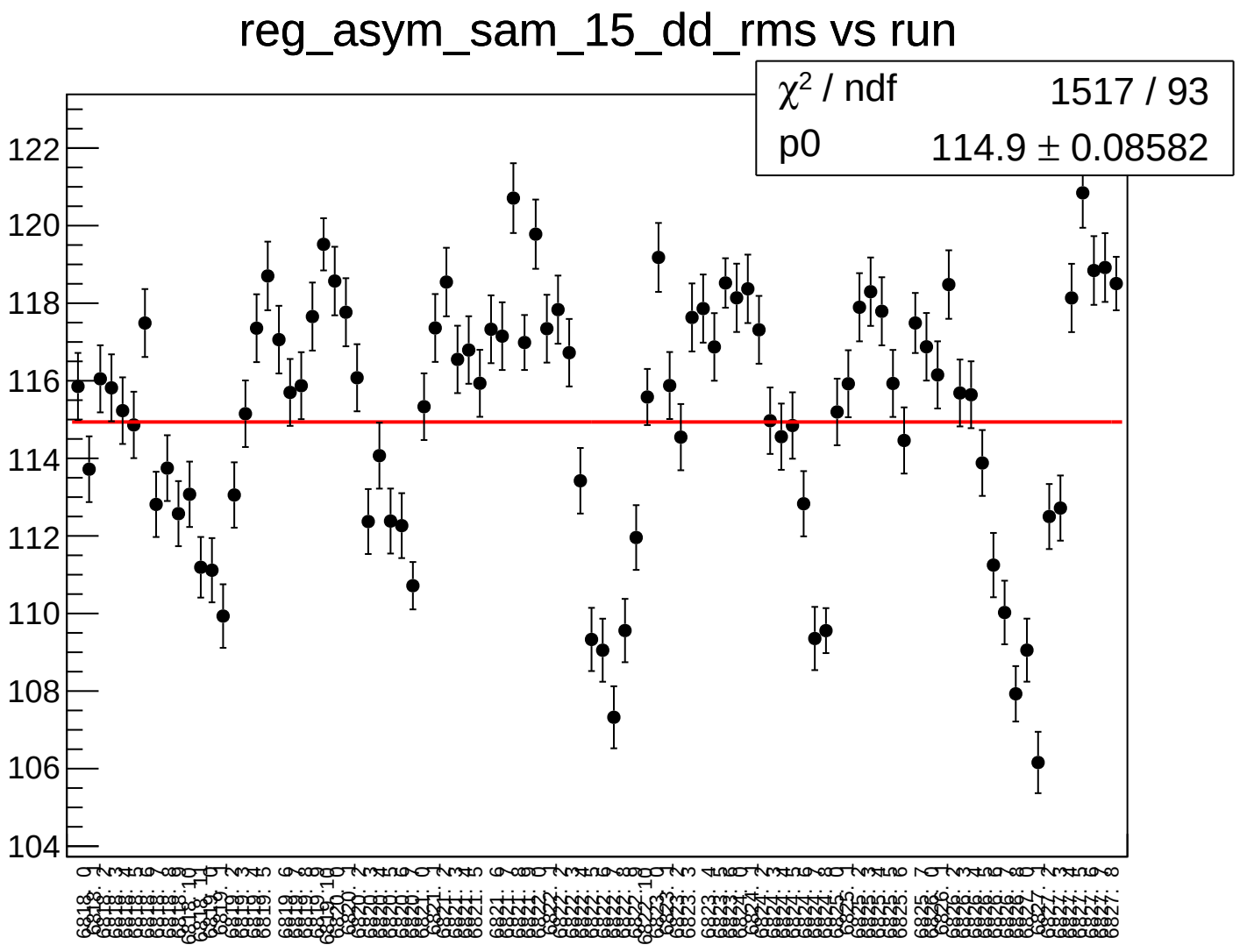

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.48 / 93
p0 −2.925e−14 ± 2.895e−14
pull
Entries 94
Mean −53.93
Std Dev 0

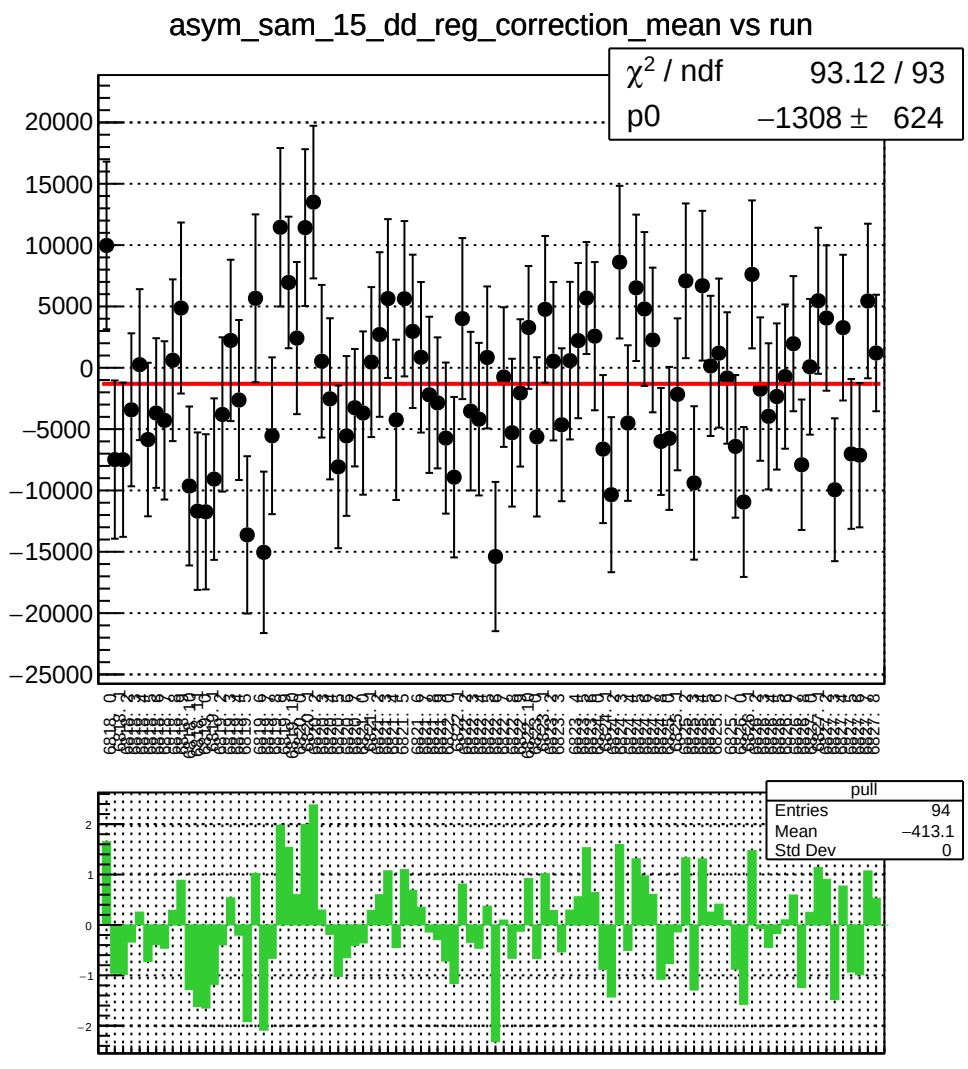

pull1D
Entries 94
Mean 0.005899
Std Dev 0.9811

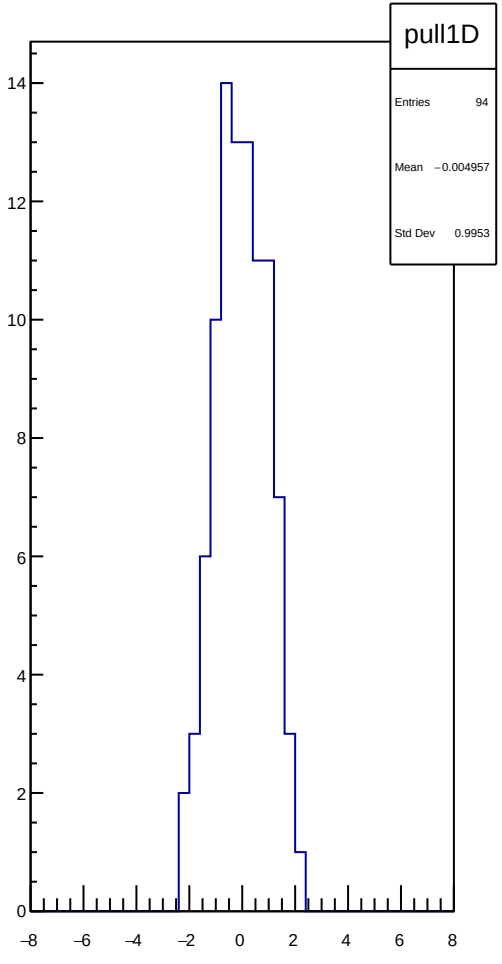

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.49e+05 / 93
p0 2.375e−11 ± 2.047e−14
0.12
0.1
0.08
0.06
0.04
0.02

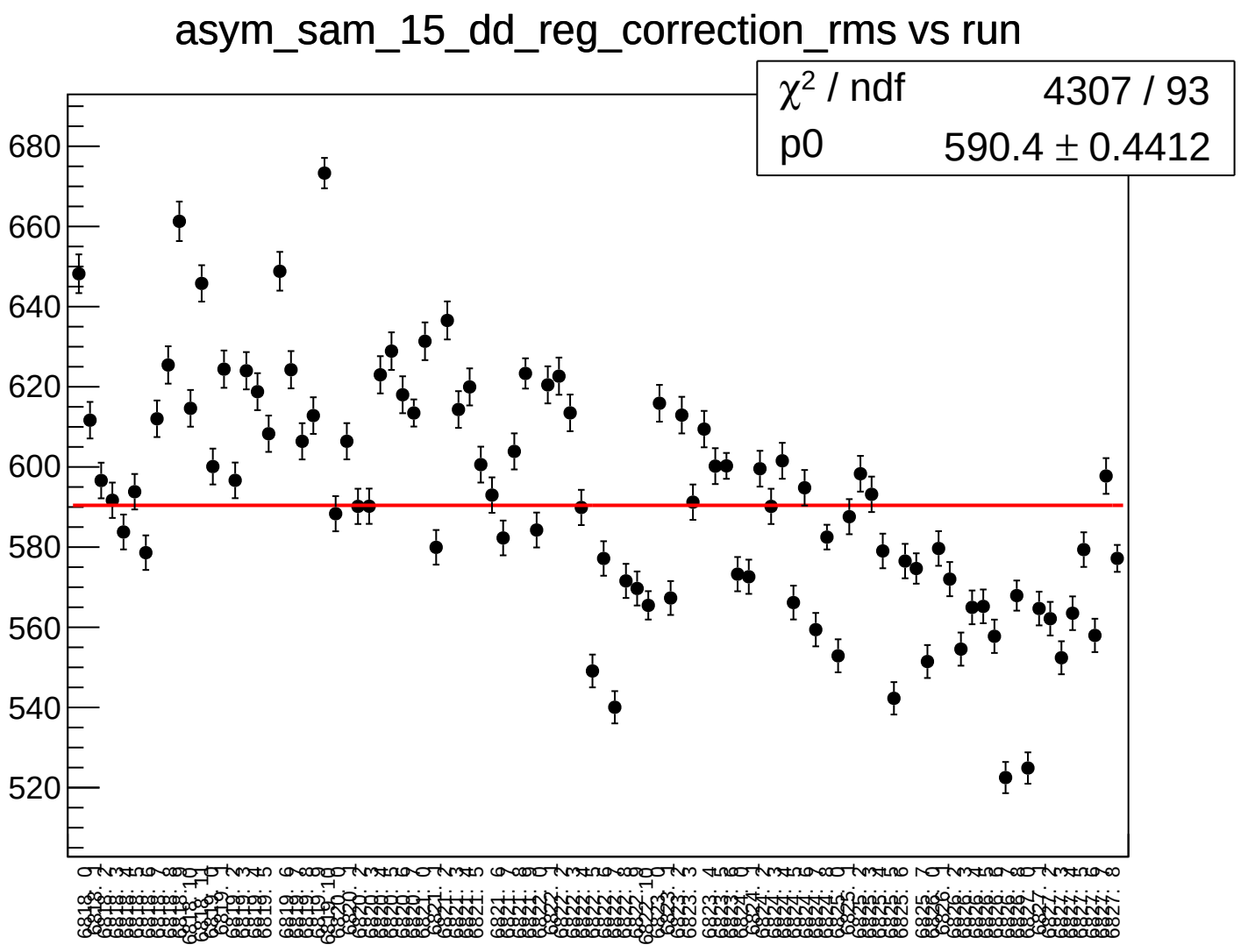

reg_asym_sam_15_dd_mean vs run
χ² / ndf 97.49 / 93
p0 330.3 ± 121.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 142
Std Dev 0
3
2
1
0
−1
−2
−3

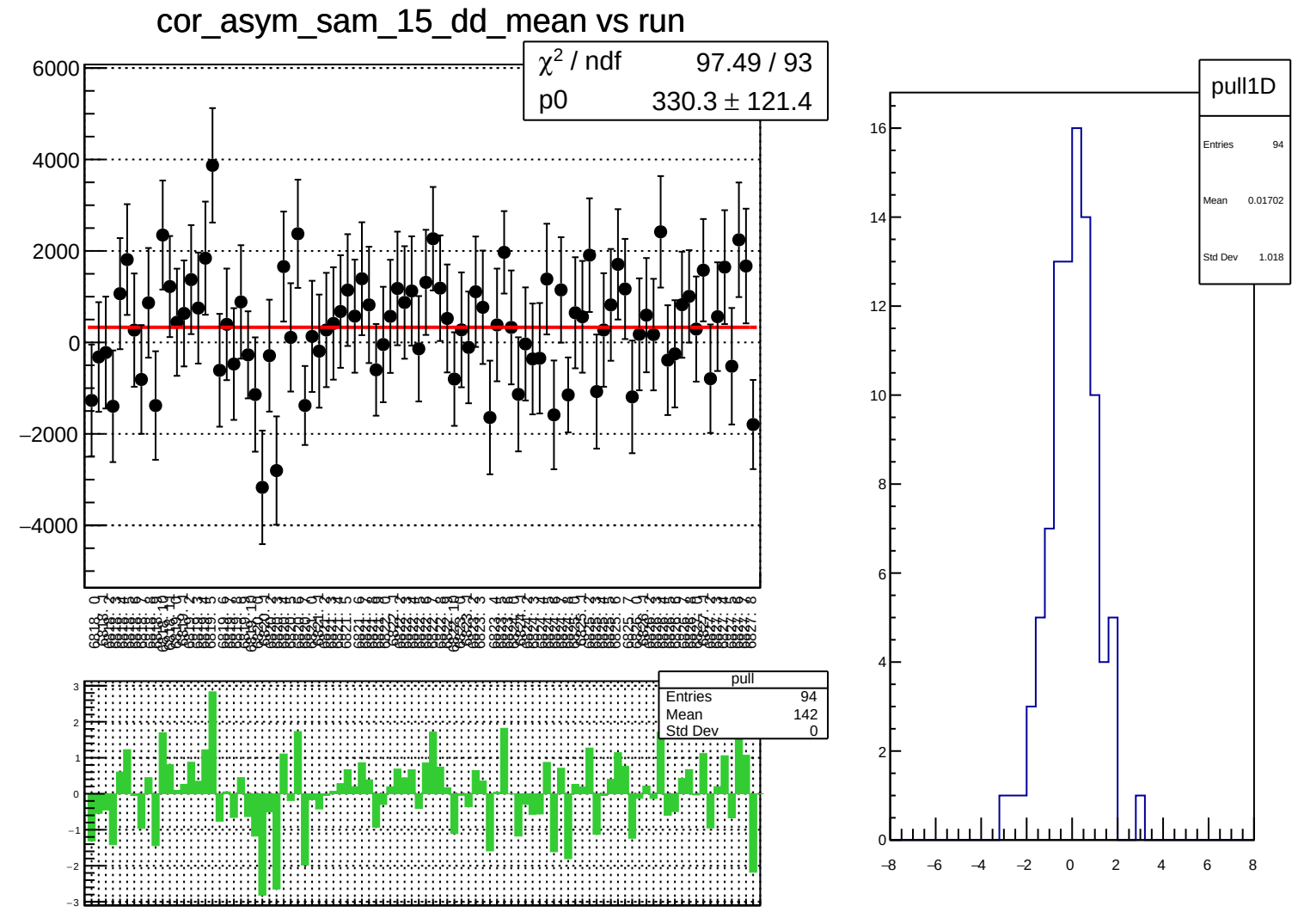

pull1D
Entries 94
Mean 0.01702
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

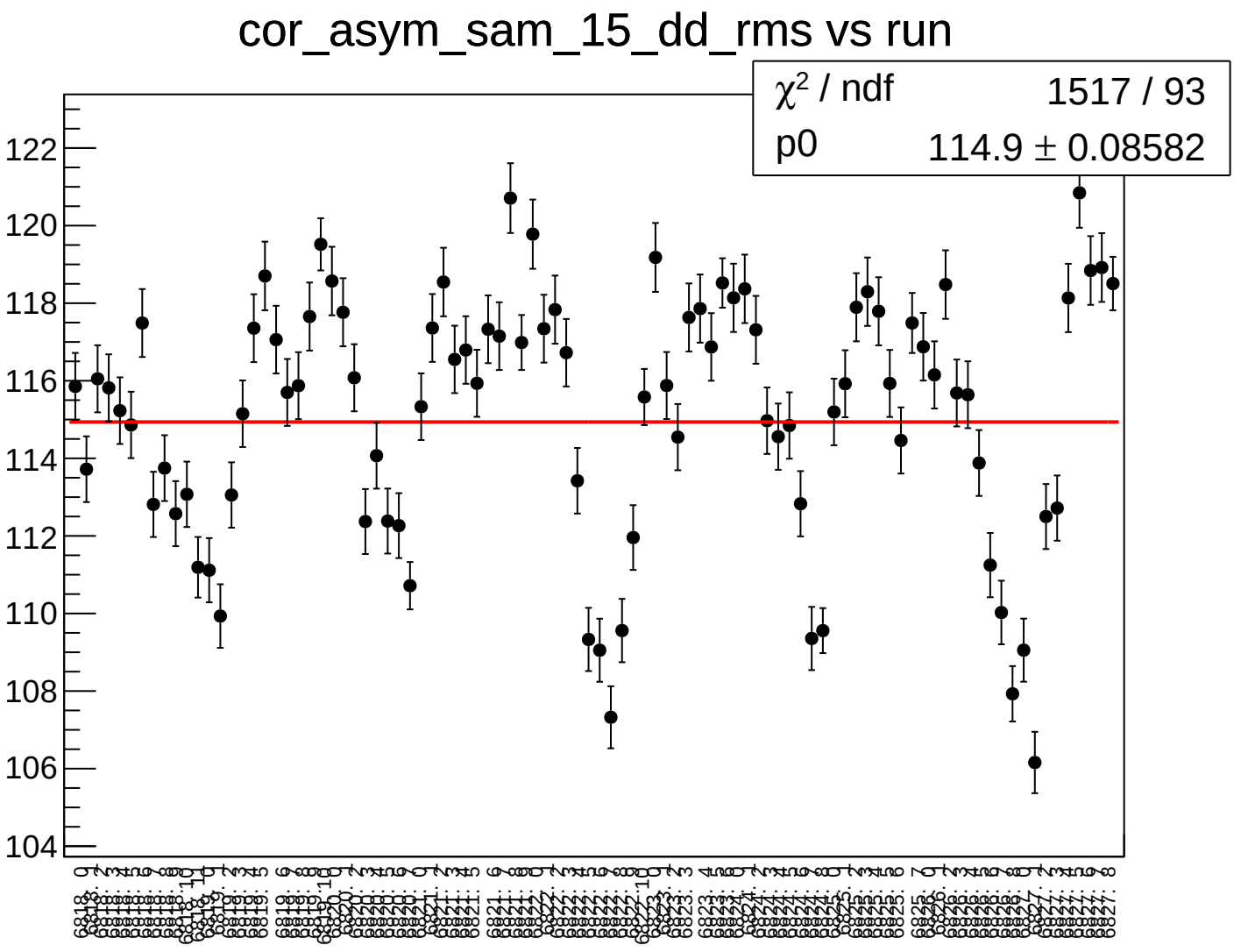

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 1517 / 93
p0 114.9 ± 0.08582
122
120
118
116
114
112
110
108
106
104

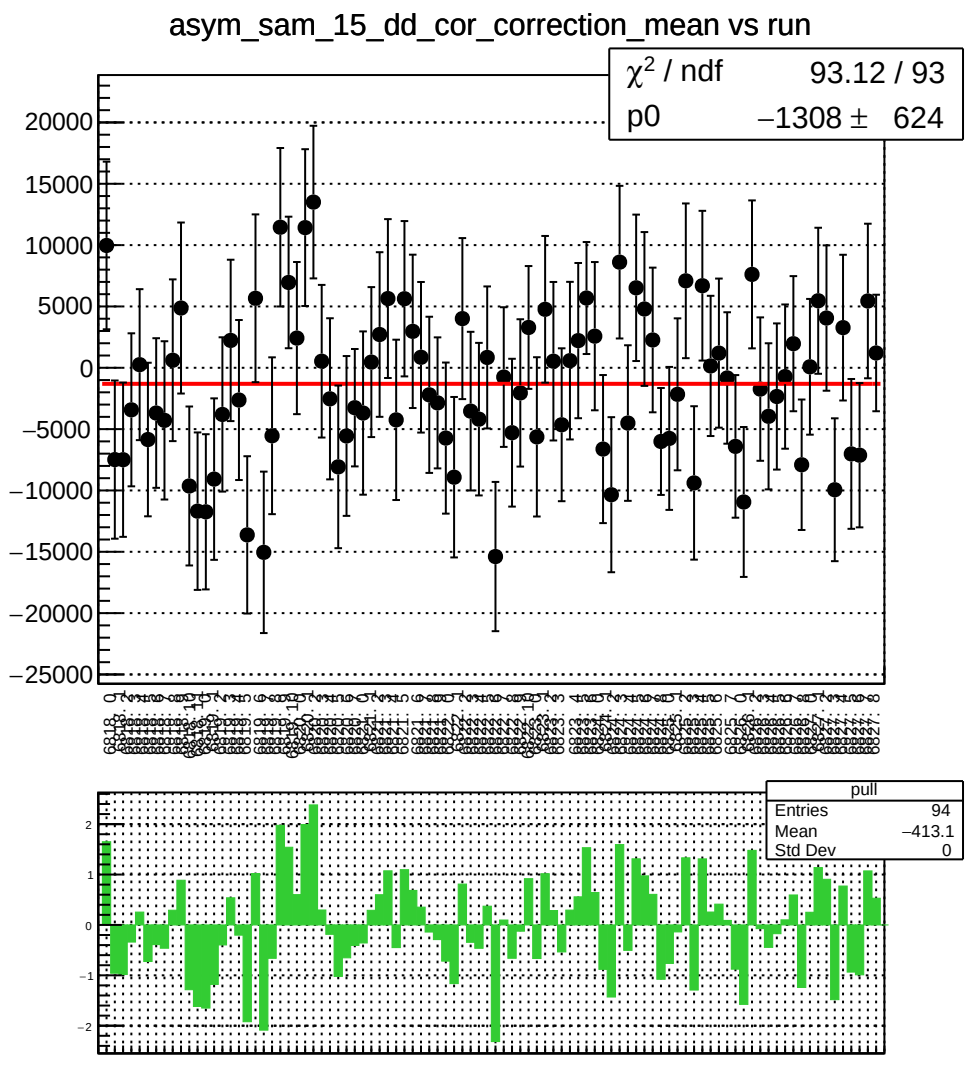

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 93.12 / 93
p0 −1308 ± 624
pull
Entries 94
Mean −413.1
Std Dev 0

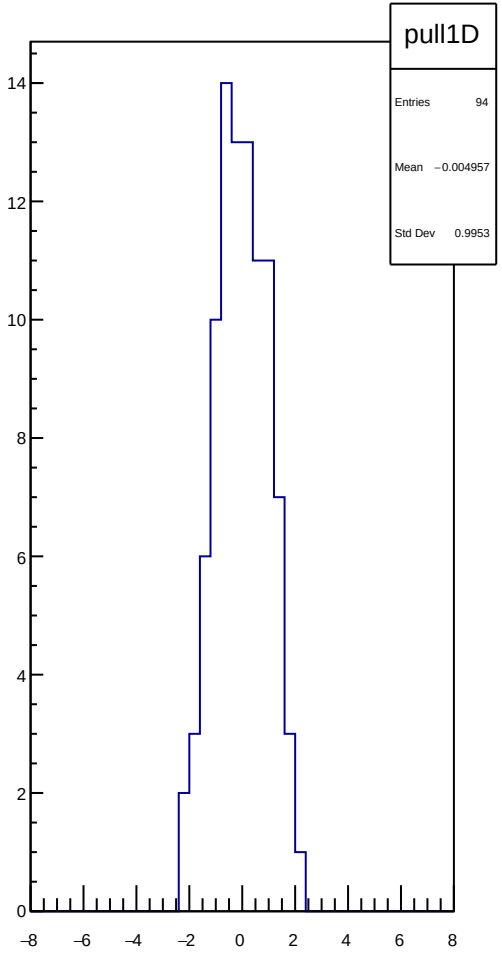

pull1D
Entries 94
Mean −0.004957
Std Dev 0.9953

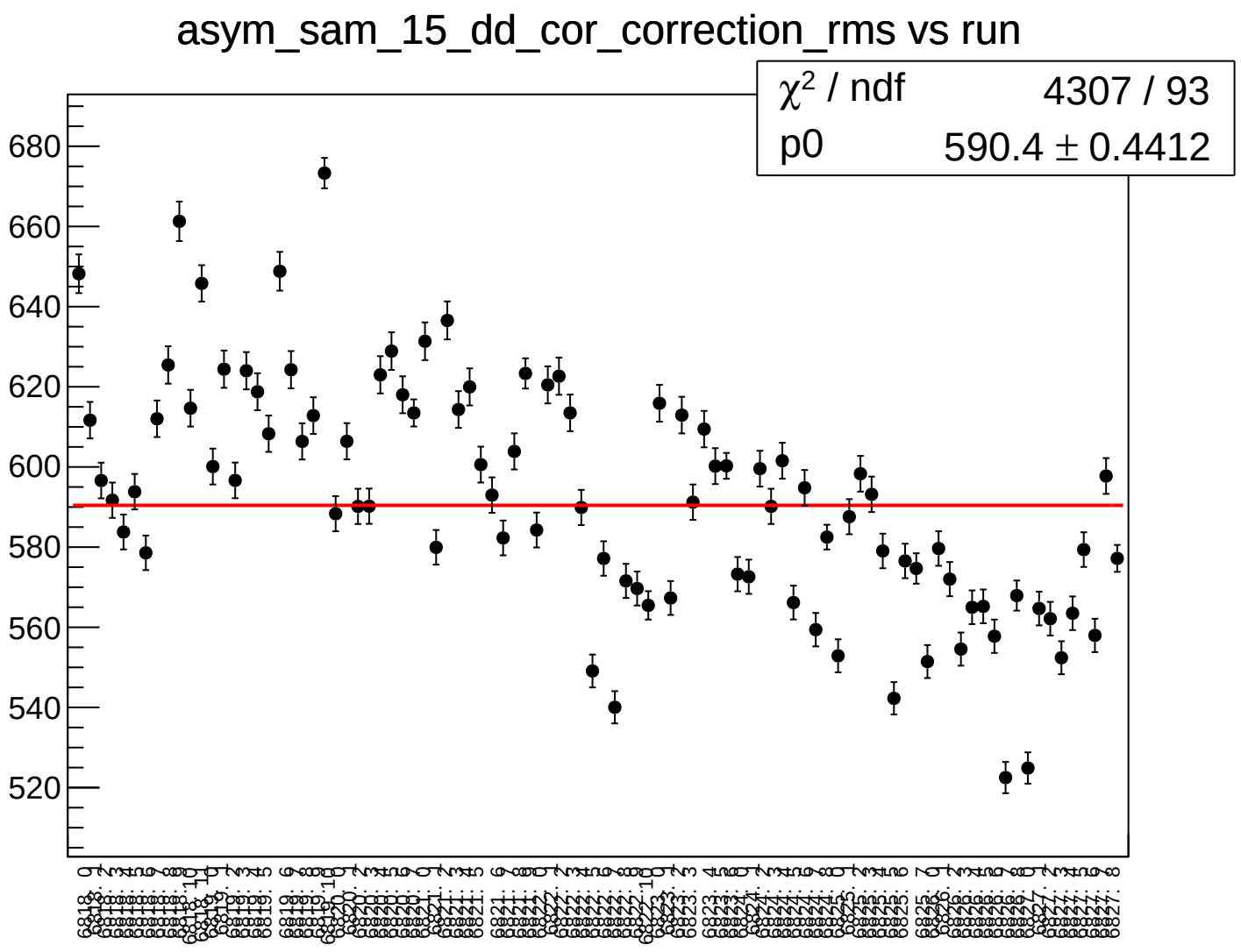

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4307 / 93
p0 590.4 ± 0.4412
680
660
640
620
600
580
560
540
520

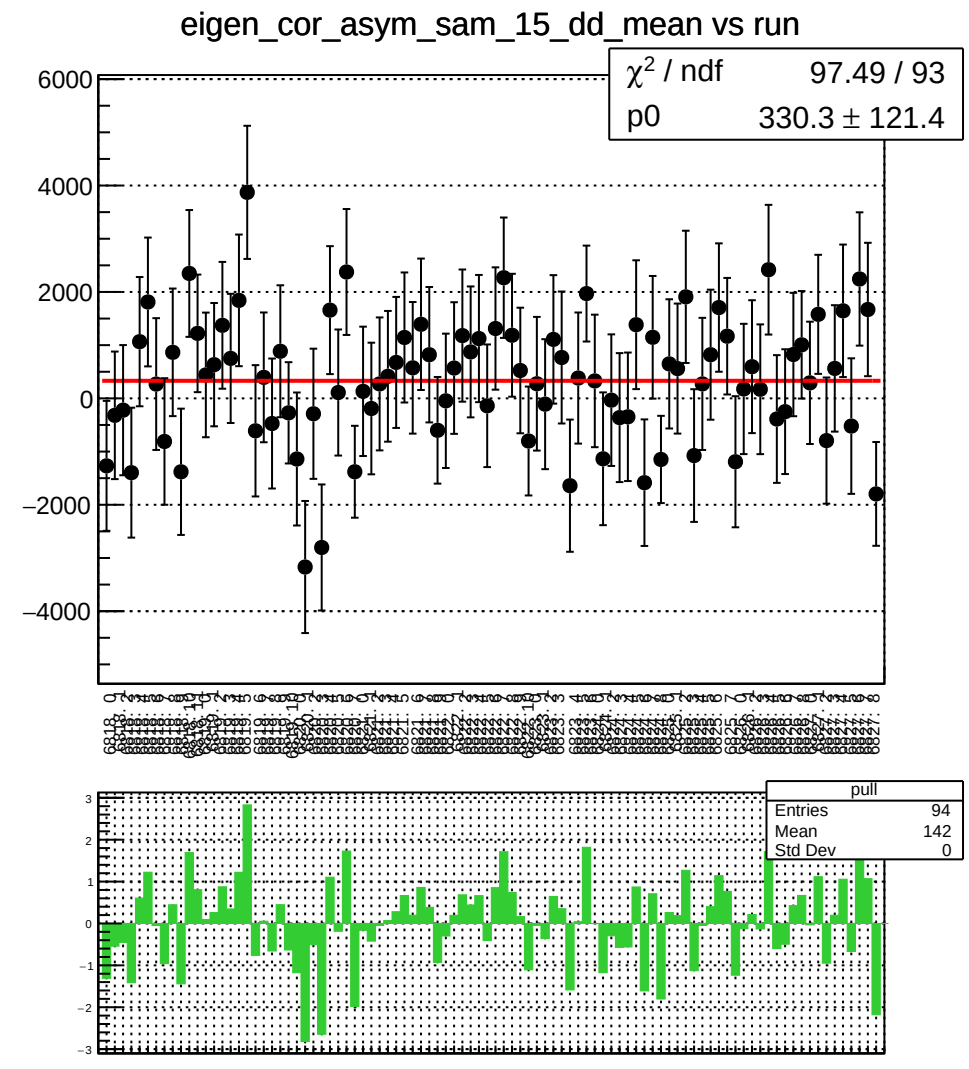

cor_asym_sam_15_dd_mean vs run
χ² / ndf 97.49 / 93
p0 330.3 ± 121.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 142
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01702
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

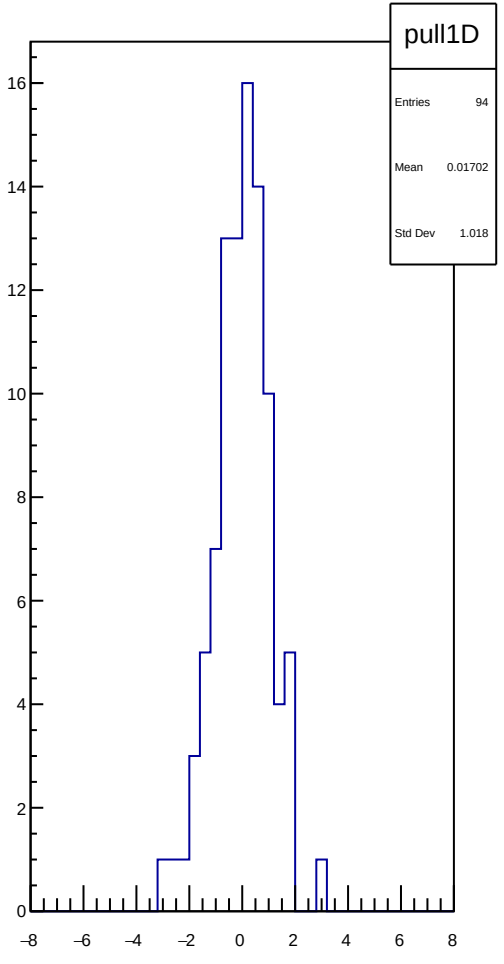

cor_asym_sam_15_dd_rms vs run
χ² / ndf 1517 / 93
p0 114.9 ± 0.08582
122
120
118
116
114
112
110
108
106
104

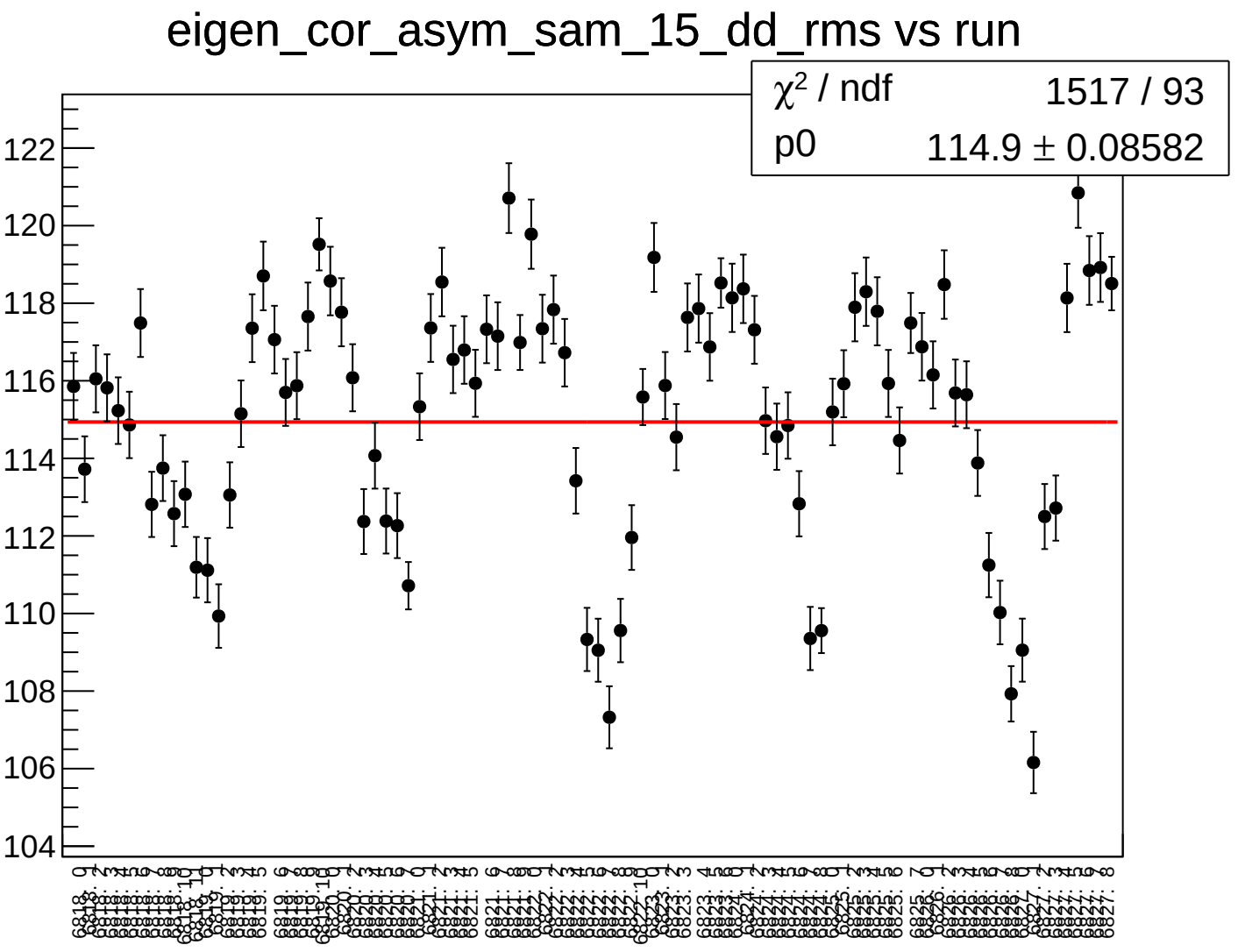

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 93.12 / 93
p0 −1308 ± 624
pull
Entries 94
Mean −413.1
Std Dev 0

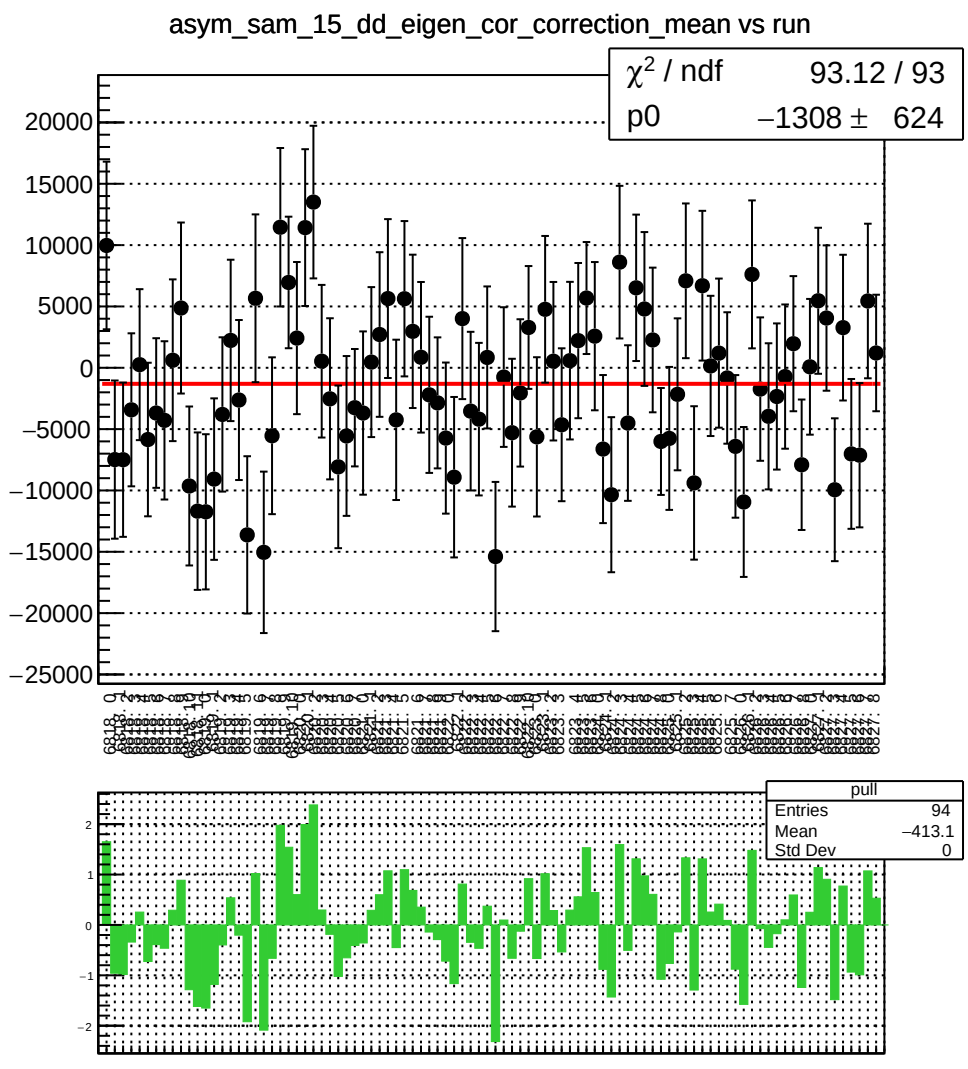

pull1D
Entries 94
Mean −0.004957
Std Dev 0.9953

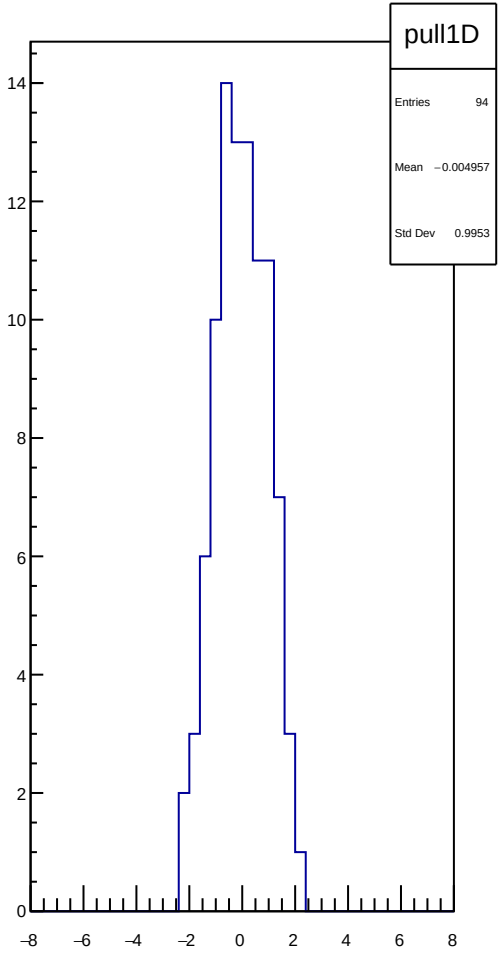

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 4307 / 93
p0 590.4 ± 0.4412
680
660
640
620
600
580
560
540
520

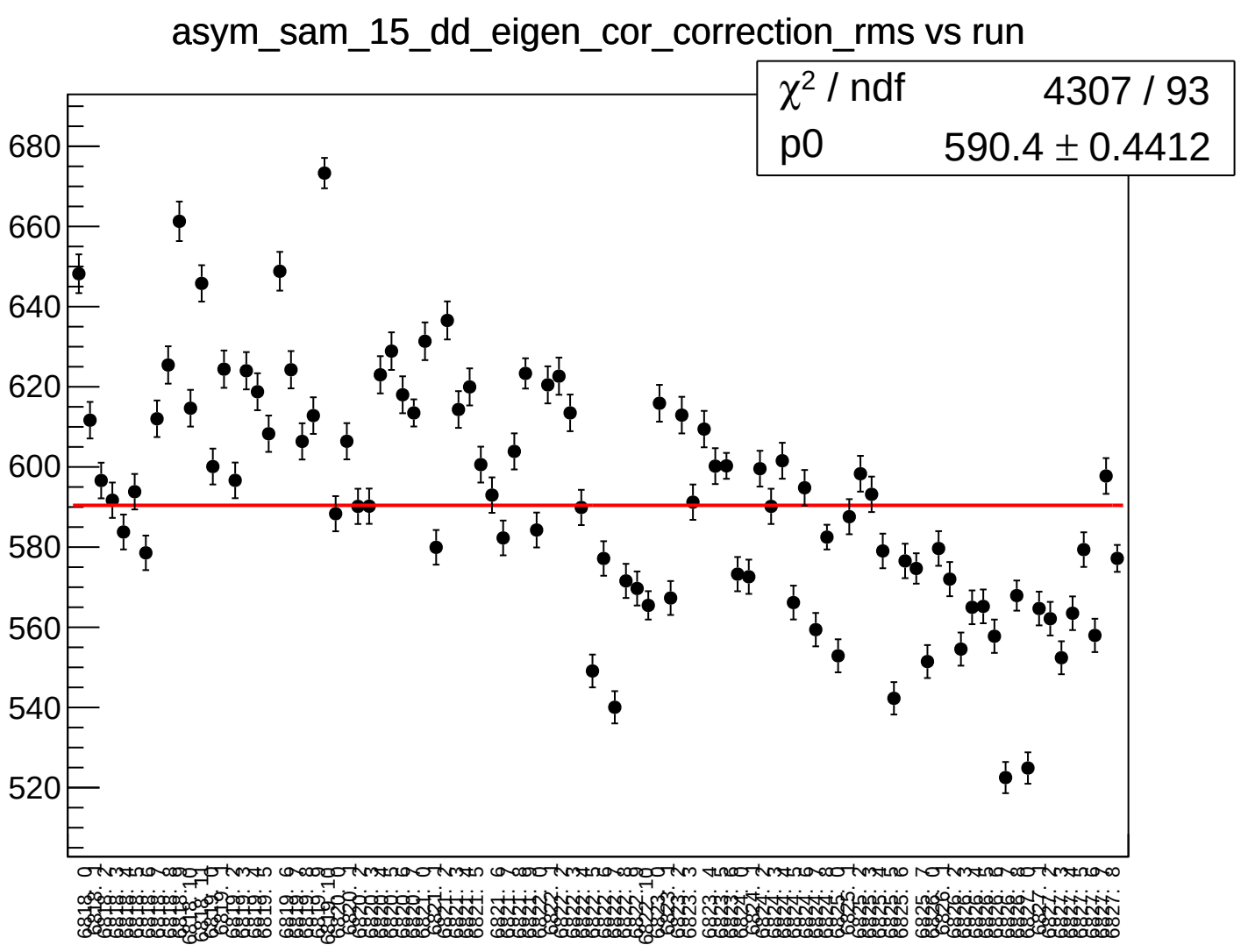

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 97.49 / 93
p0 330.3 ± 121.4
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 142
Std Dev 0
3
2
1
0
−1
−2
−3

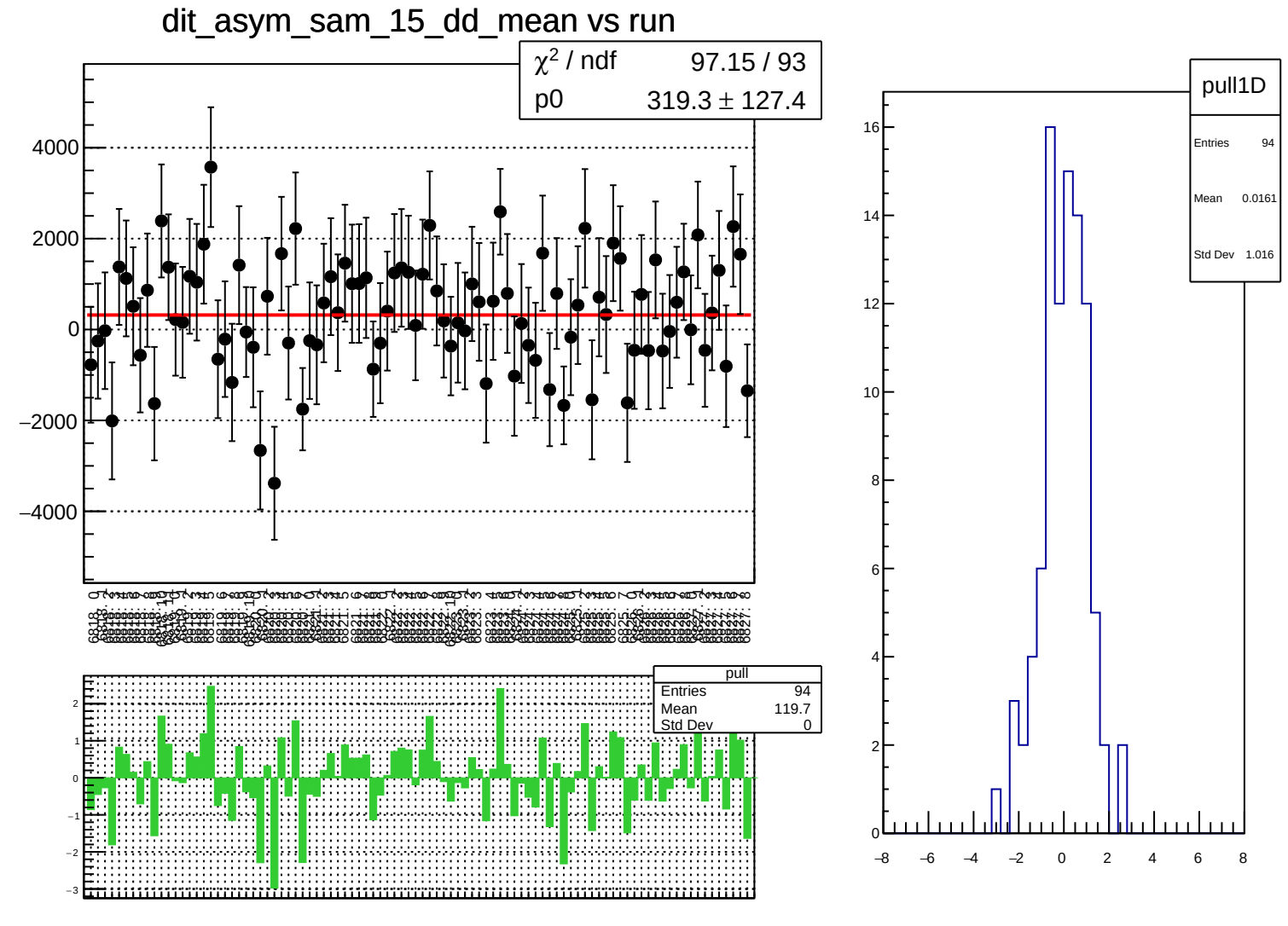

pull1D
Entries 94
Mean 0.01702
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

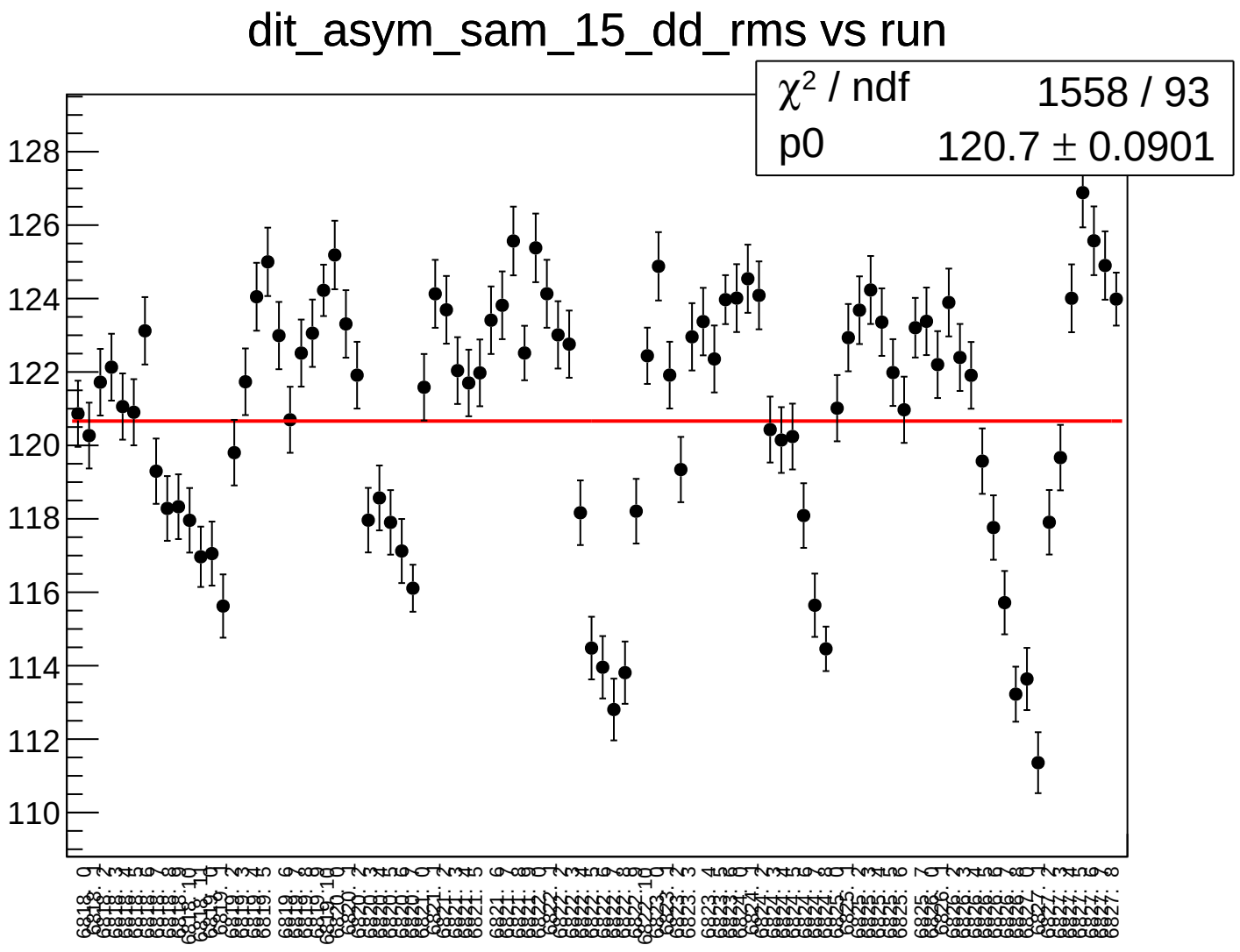

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 1517 / 93
p0 114.9 ± 0.08582
122
120
118
116
114
112
110
108
106
104

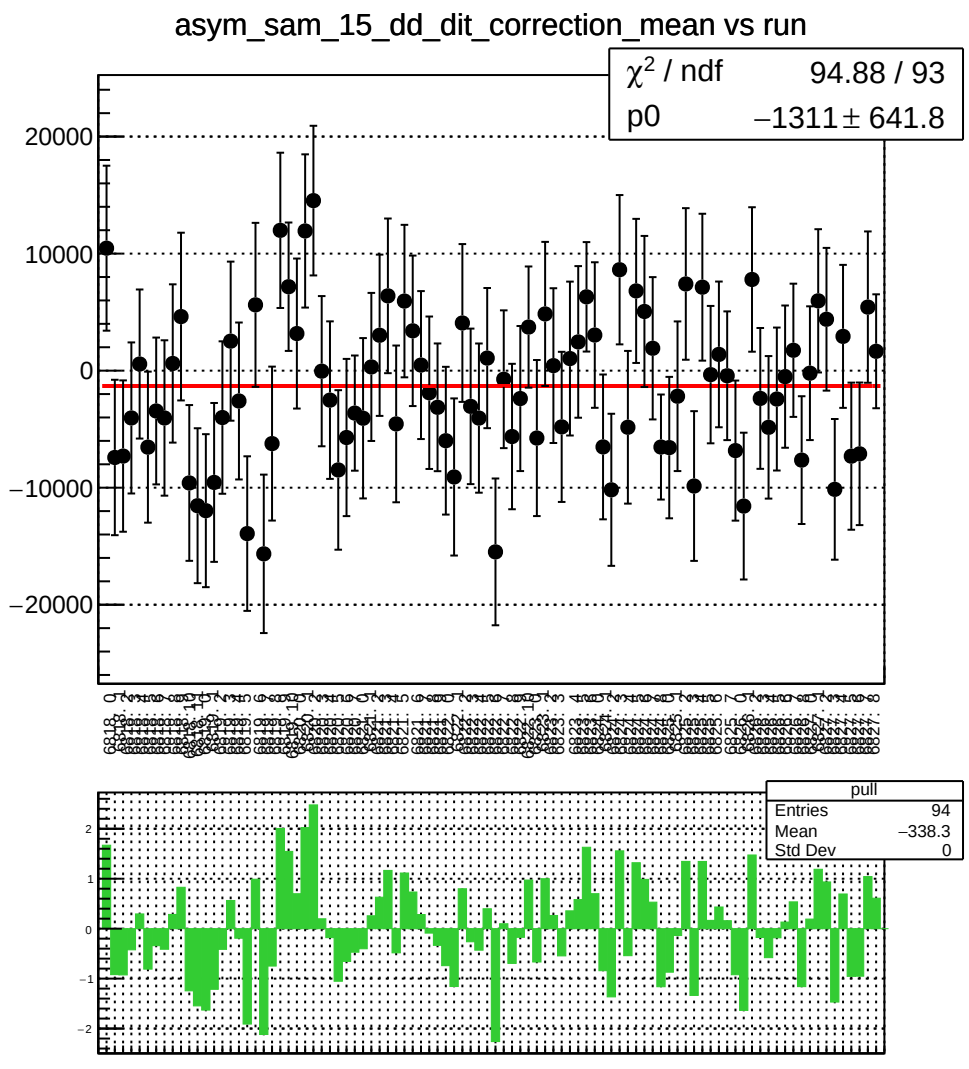

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.12 / 93
p0 −1308 ± 624
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −413.1
Std Dev 0
2
1
0
−1
−2

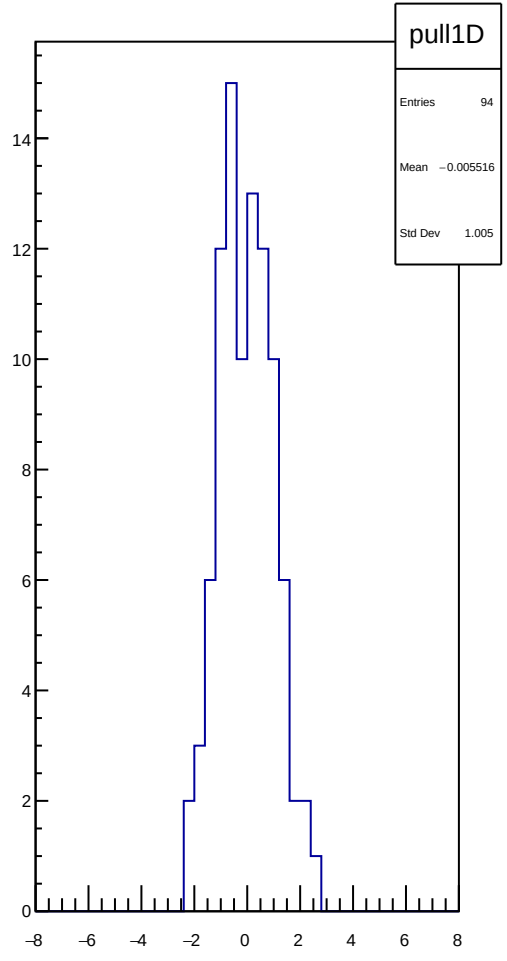

pull1D
Entries 94
Mean −0.004957
Std Dev 0.9953
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

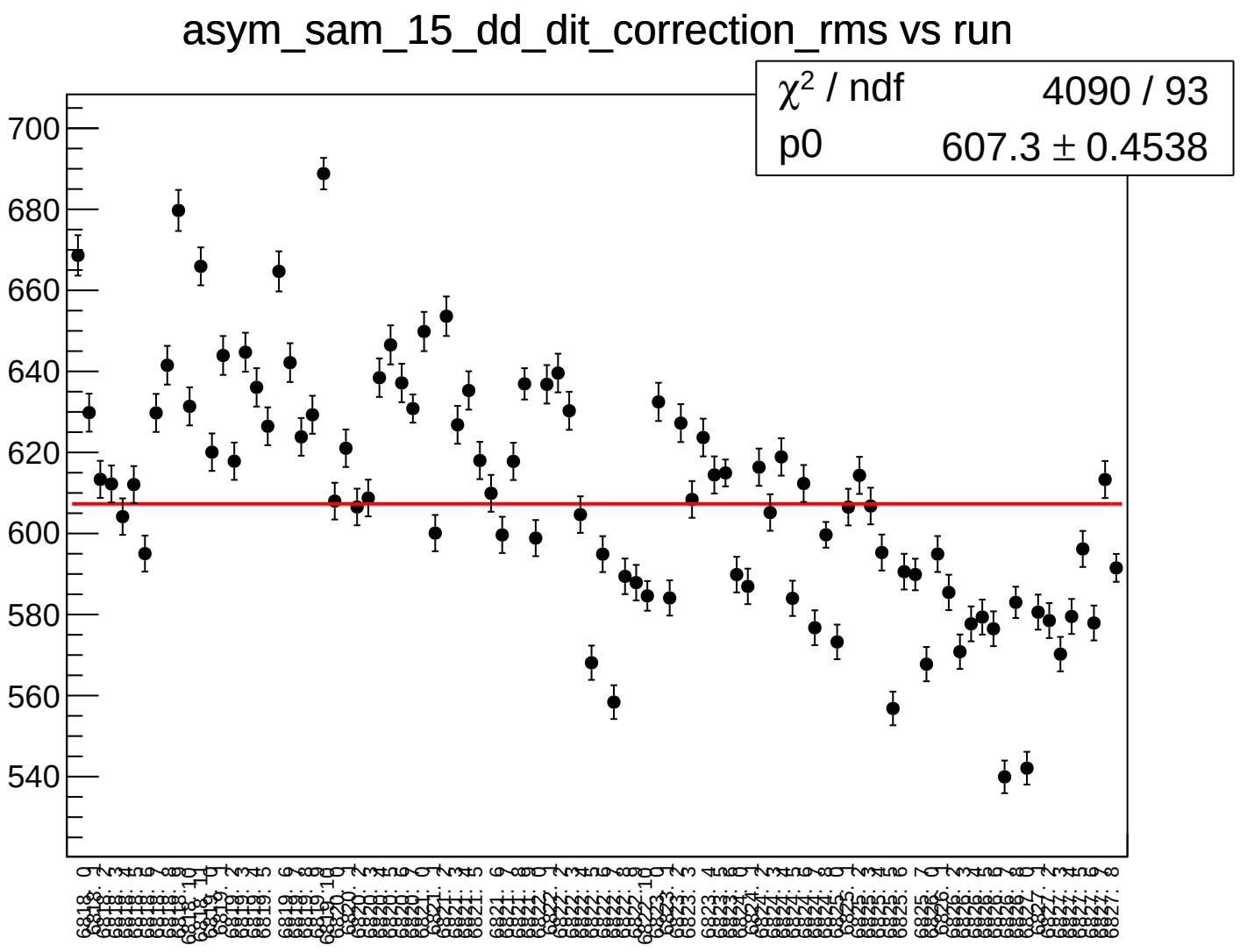

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4307 / 93
p0 590.4 ± 0.4412
680
660
640
620
600
580
560
540
520

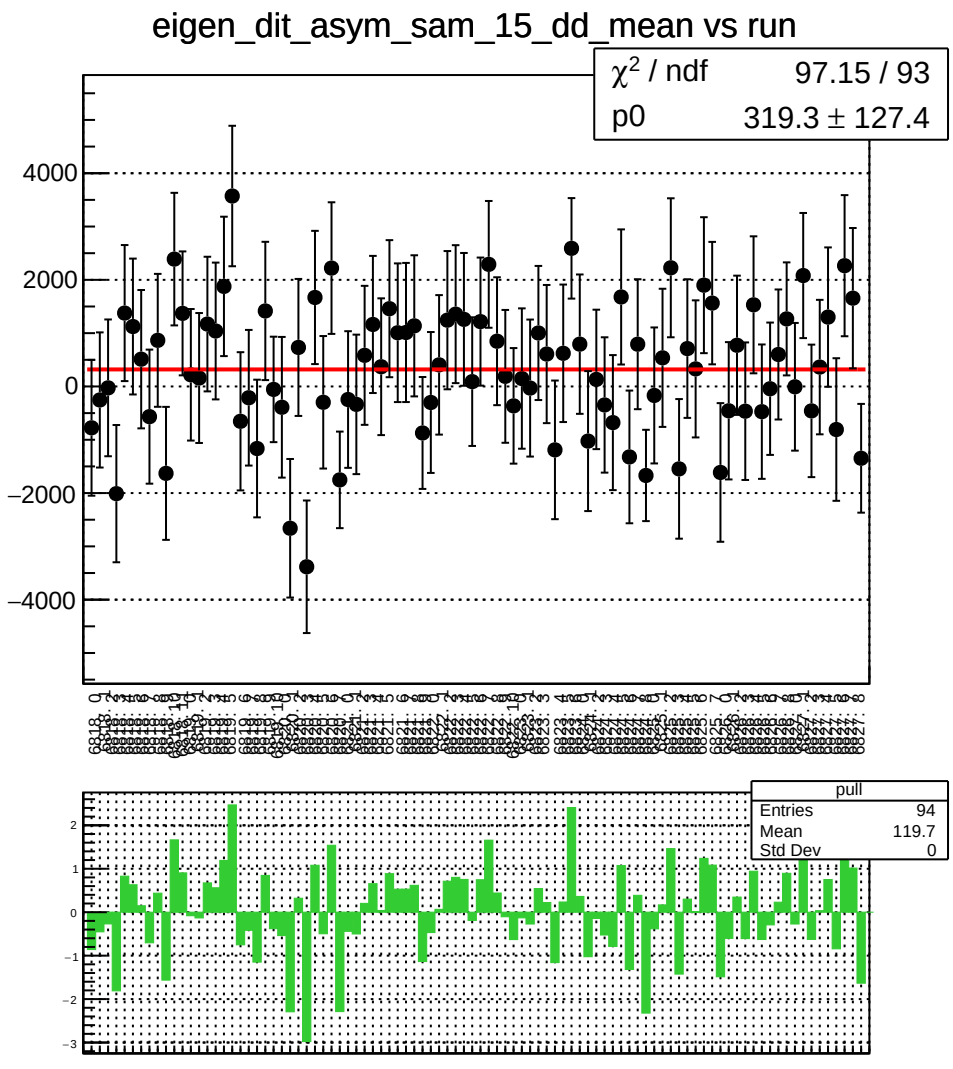

dit_asym_sam_15_dd_mean vs run
χ² / ndf 97.15 / 93
p0 319.3 ± 127.4
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 119.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.0161
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

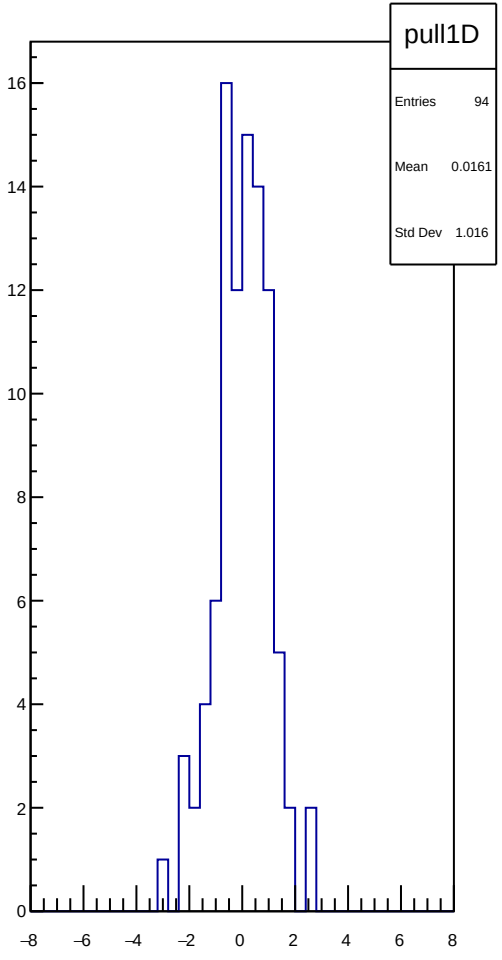

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1558 / 93
p0 120.7 ± 0.0901
128
126
124
122
120
118
116
114
112
110

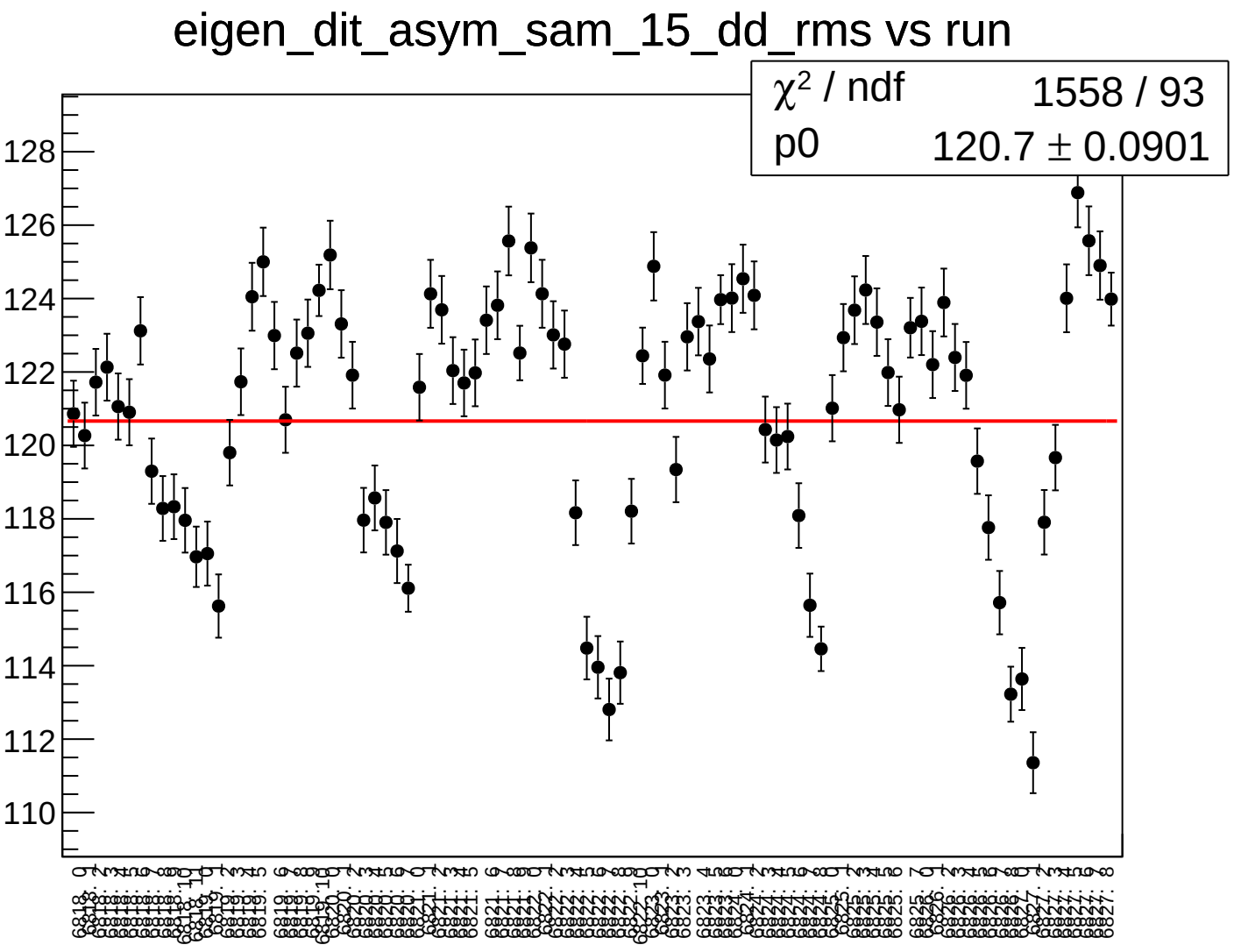

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 94.88 / 93
p0 −1311 ± 641.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −338.3
Std Dev 0
2
1
0
−1
−2

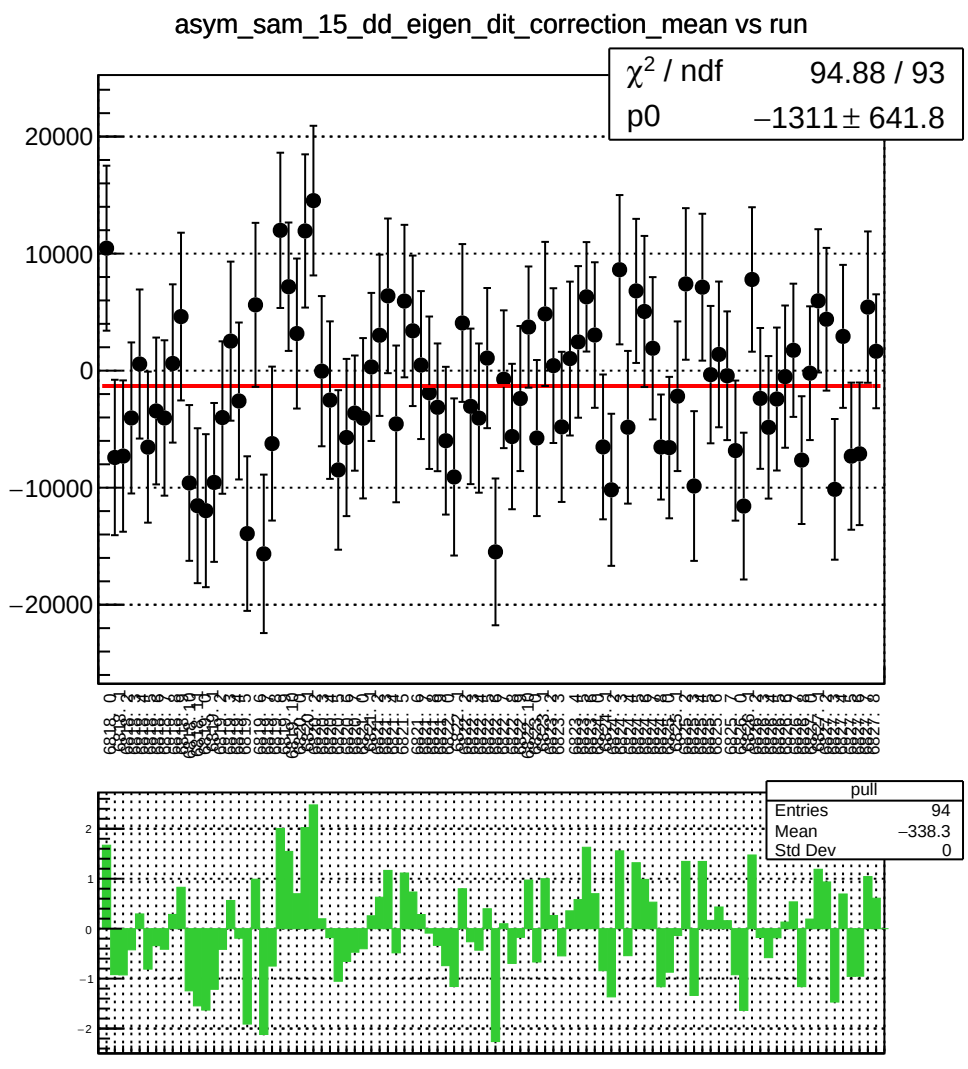

pull1D
Entries 94
Mean −0.005516
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

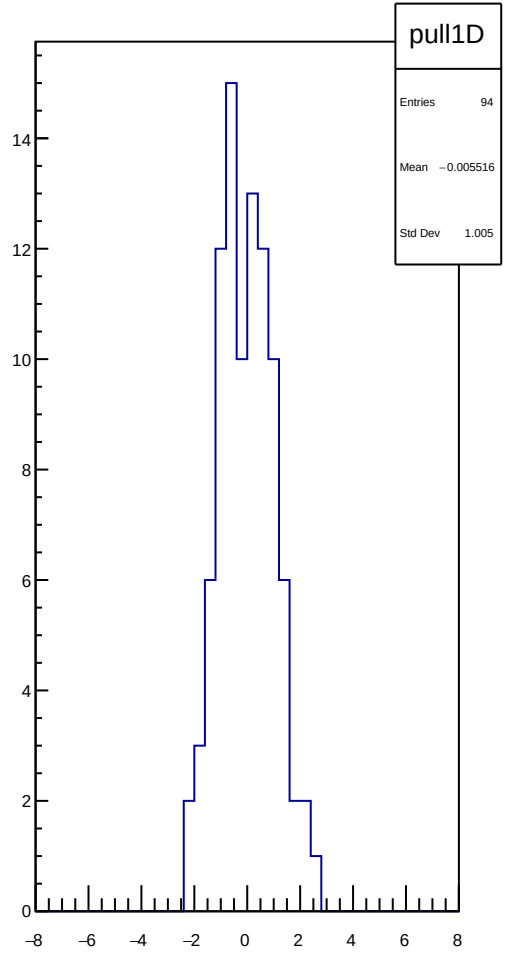

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4090 / 93
p0 607.3 ± 0.4538
700
680
660
640
620
600
580
560
540

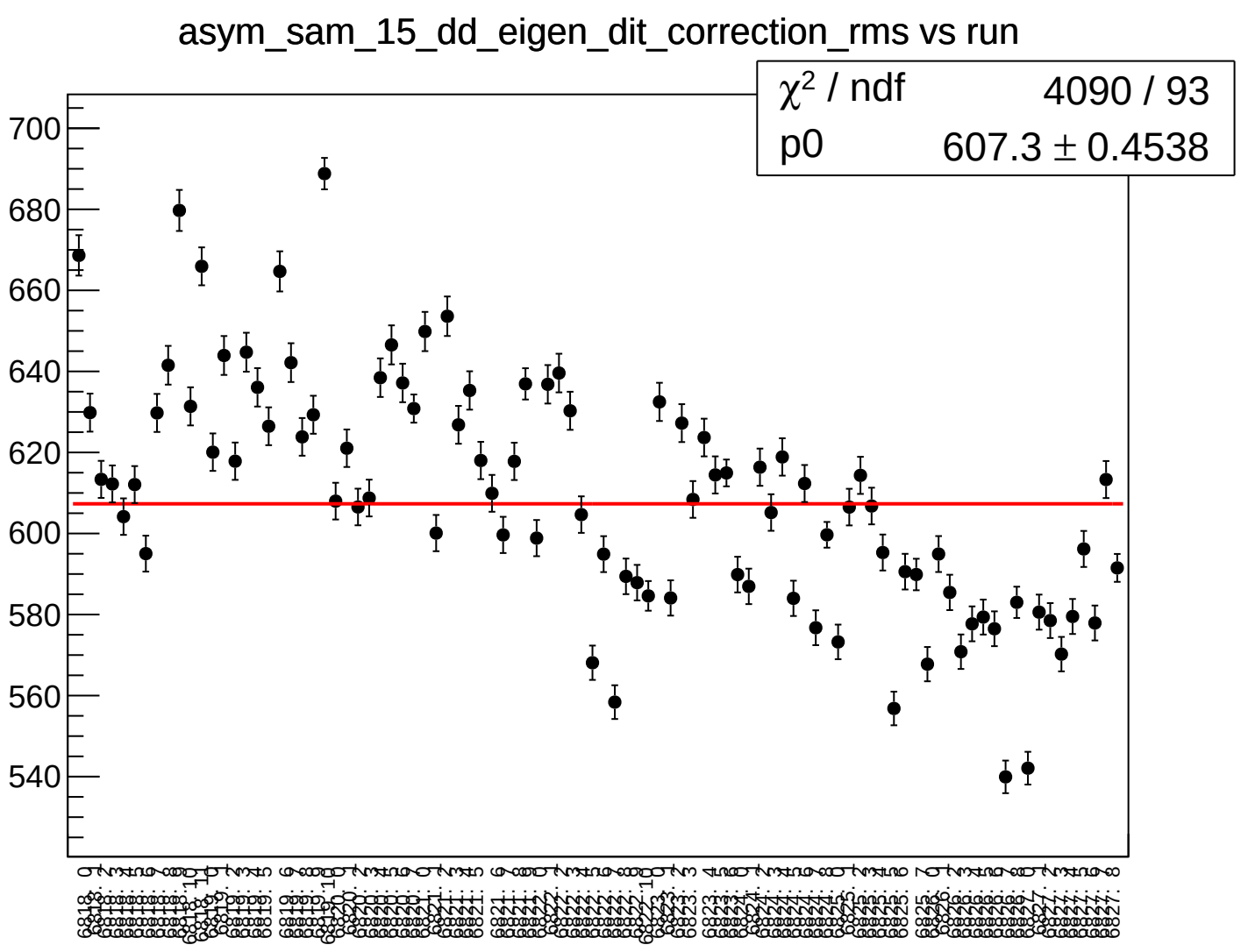

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 97.15 / 93
p0 319.3 ± 127.4
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 119.7
Std Dev 0
2
1
0
−1
−2
−3

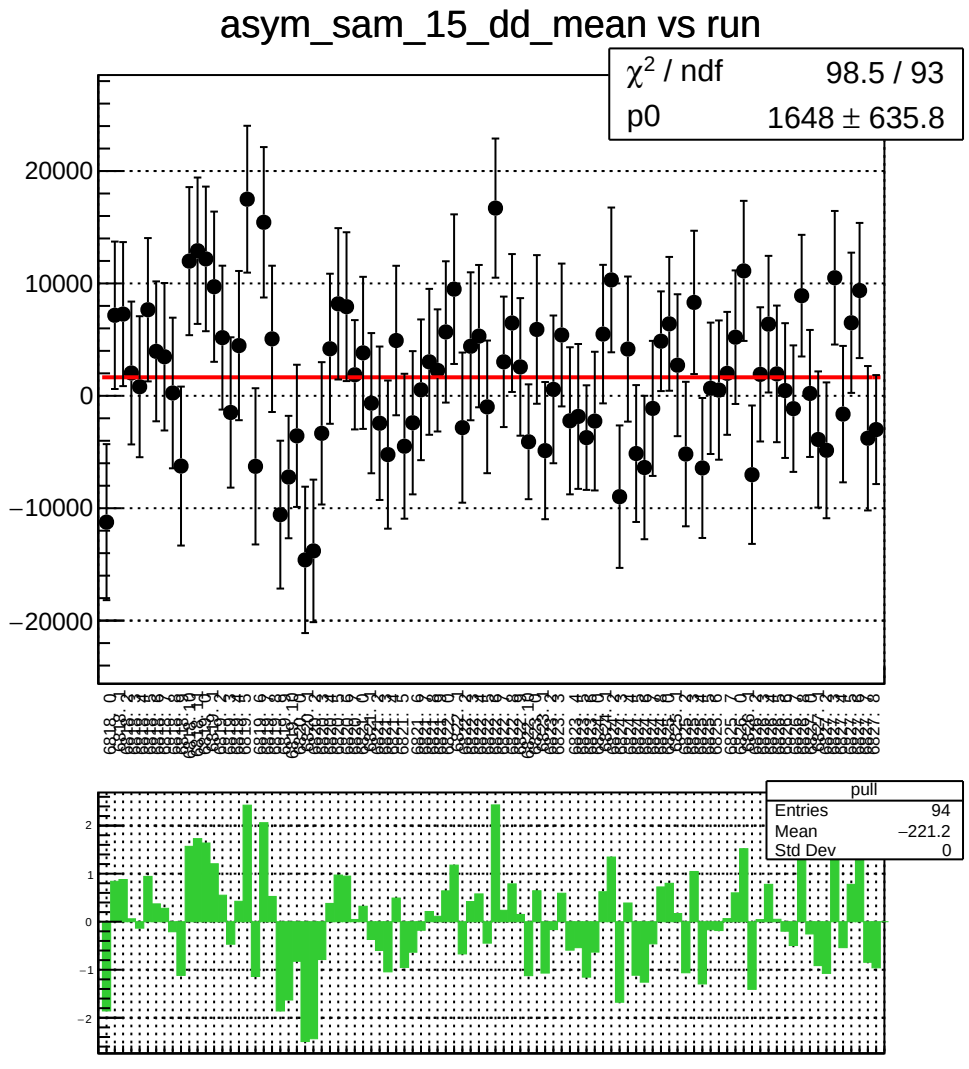

pull1D
Entries 94
Mean 0.0161
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

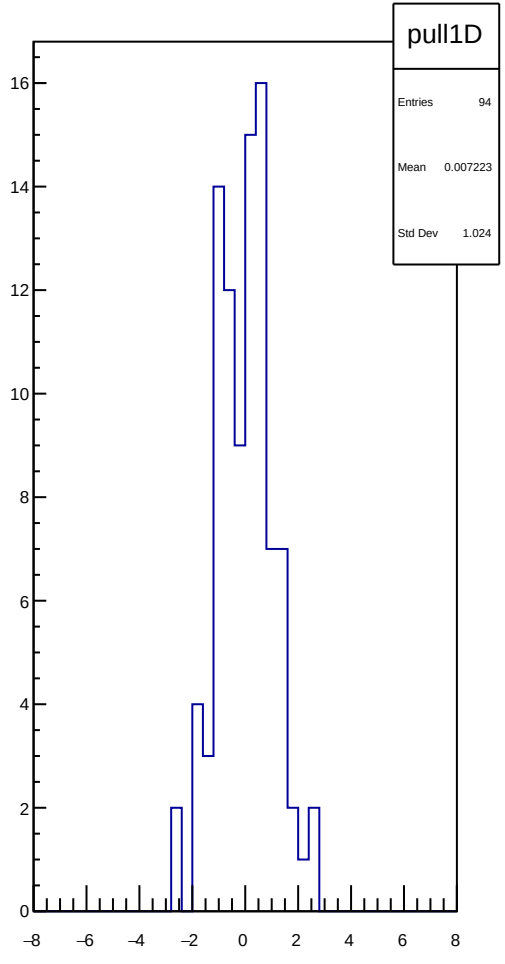

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1558 / 93
p0 120.7 ± 0.0901
128
126
124
122
120
118
116
114
112
110

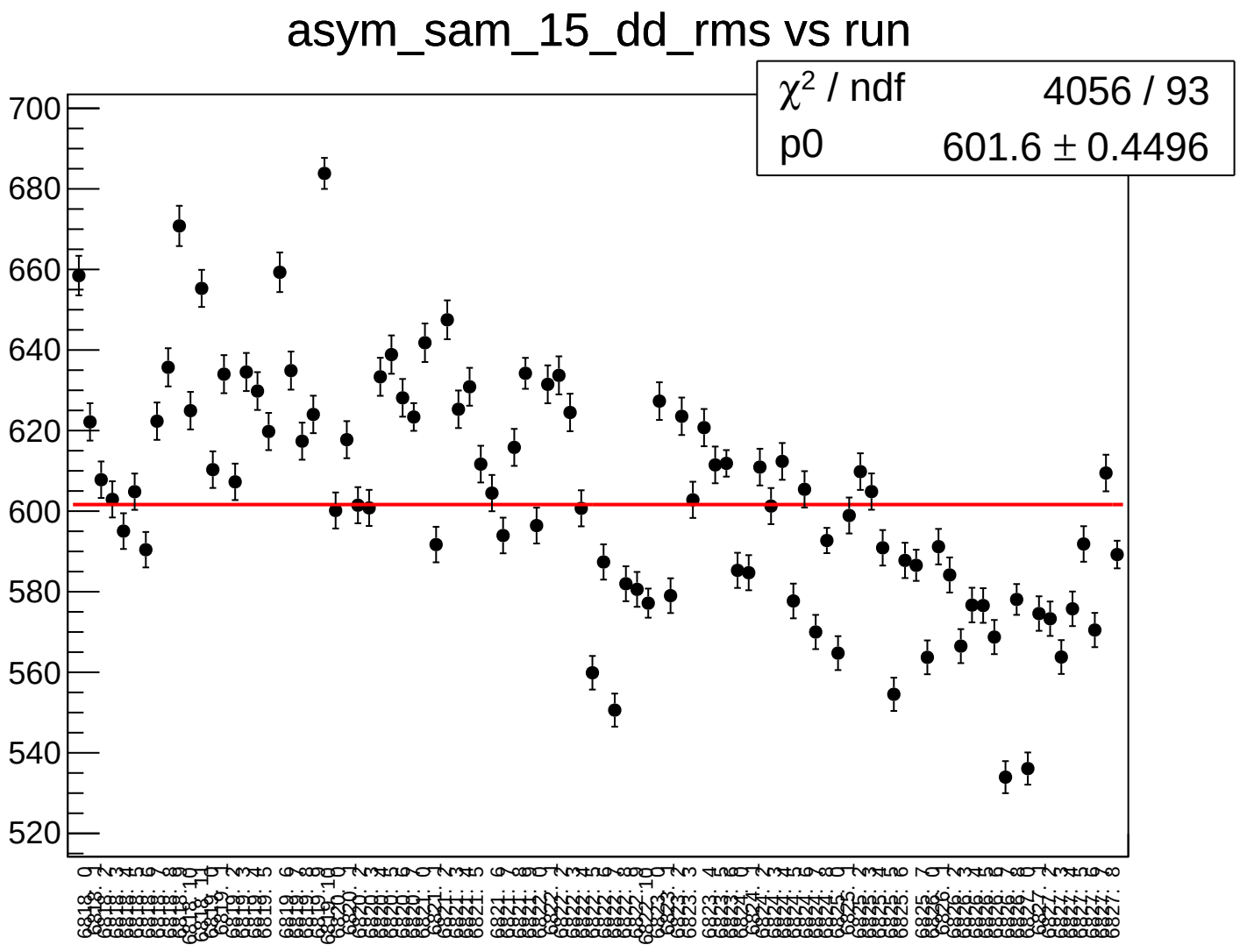

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 94.88 / 93
p0 −1311 ± 641.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −338.3
Std Dev 0
2
1
0
−1
−2

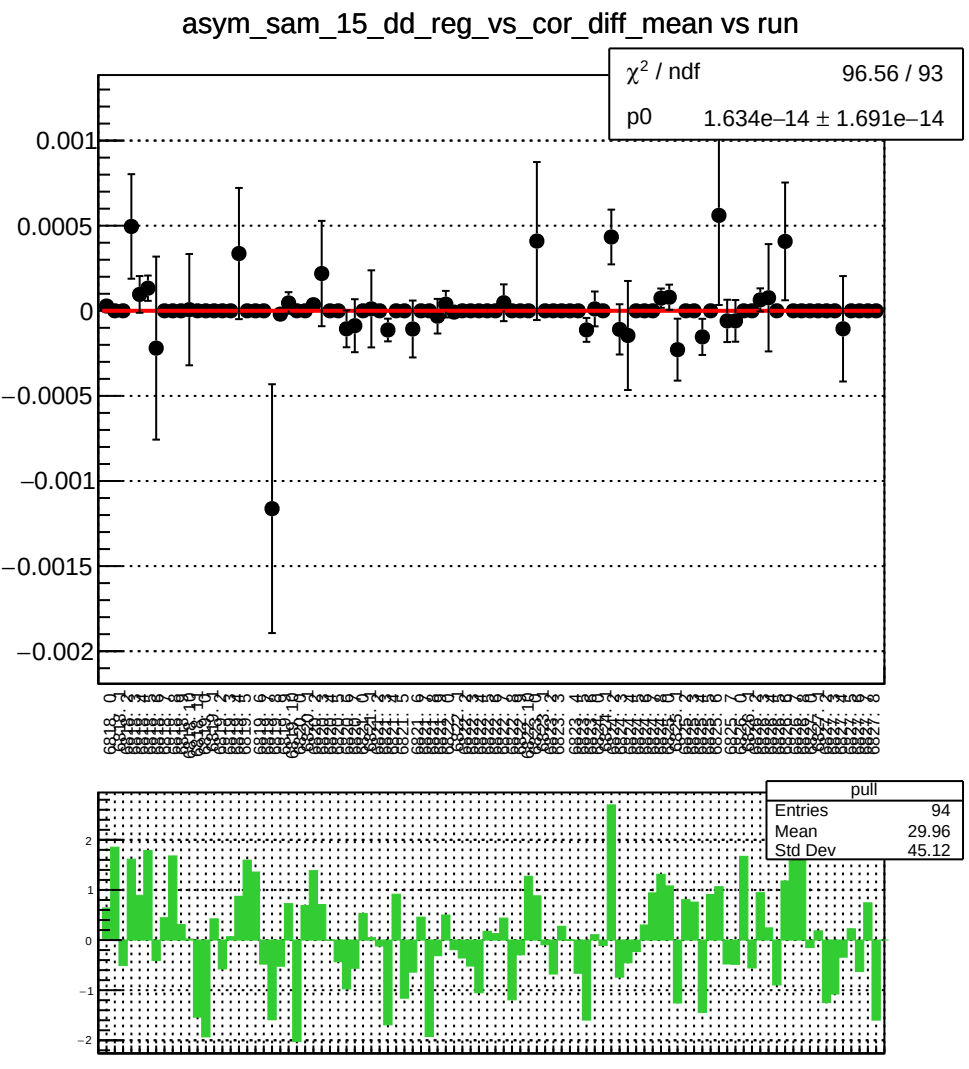

pull1D
Entries 94
Mean −0.005516
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

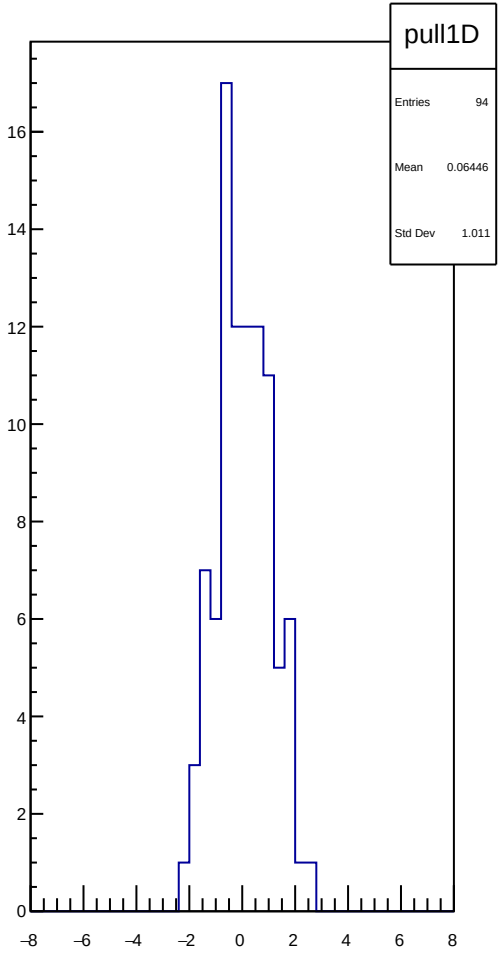

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 4090 / 93
p0 607.3 ± 0.4538
700
680
660
640
620
600
580
560
540

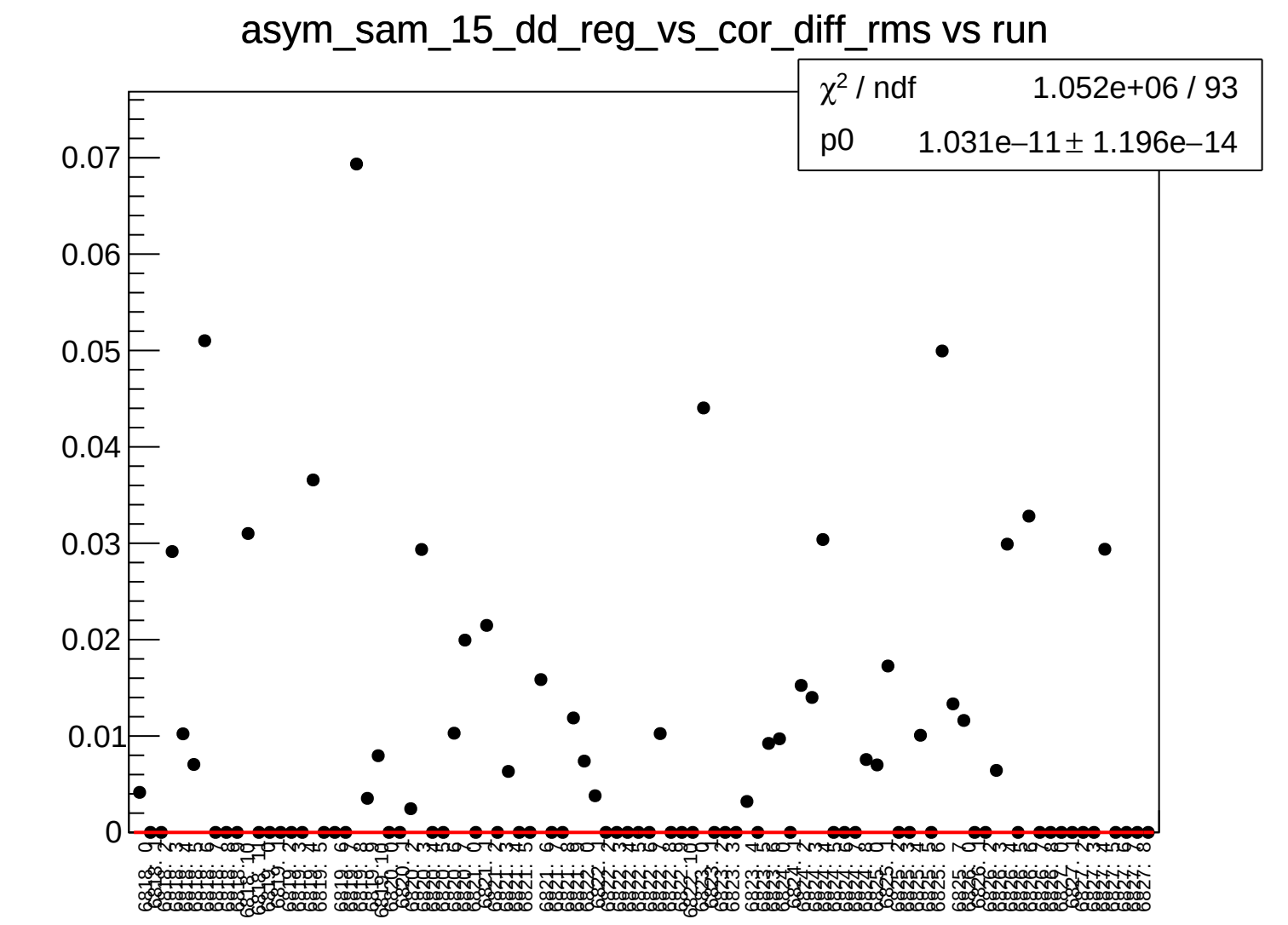

asym_sam_15_dd_mean vs run
χ² / ndf 98.5 / 93
p0 1648 ± 635.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −221.2
Std Dev 0
2
1
0
−1
−2

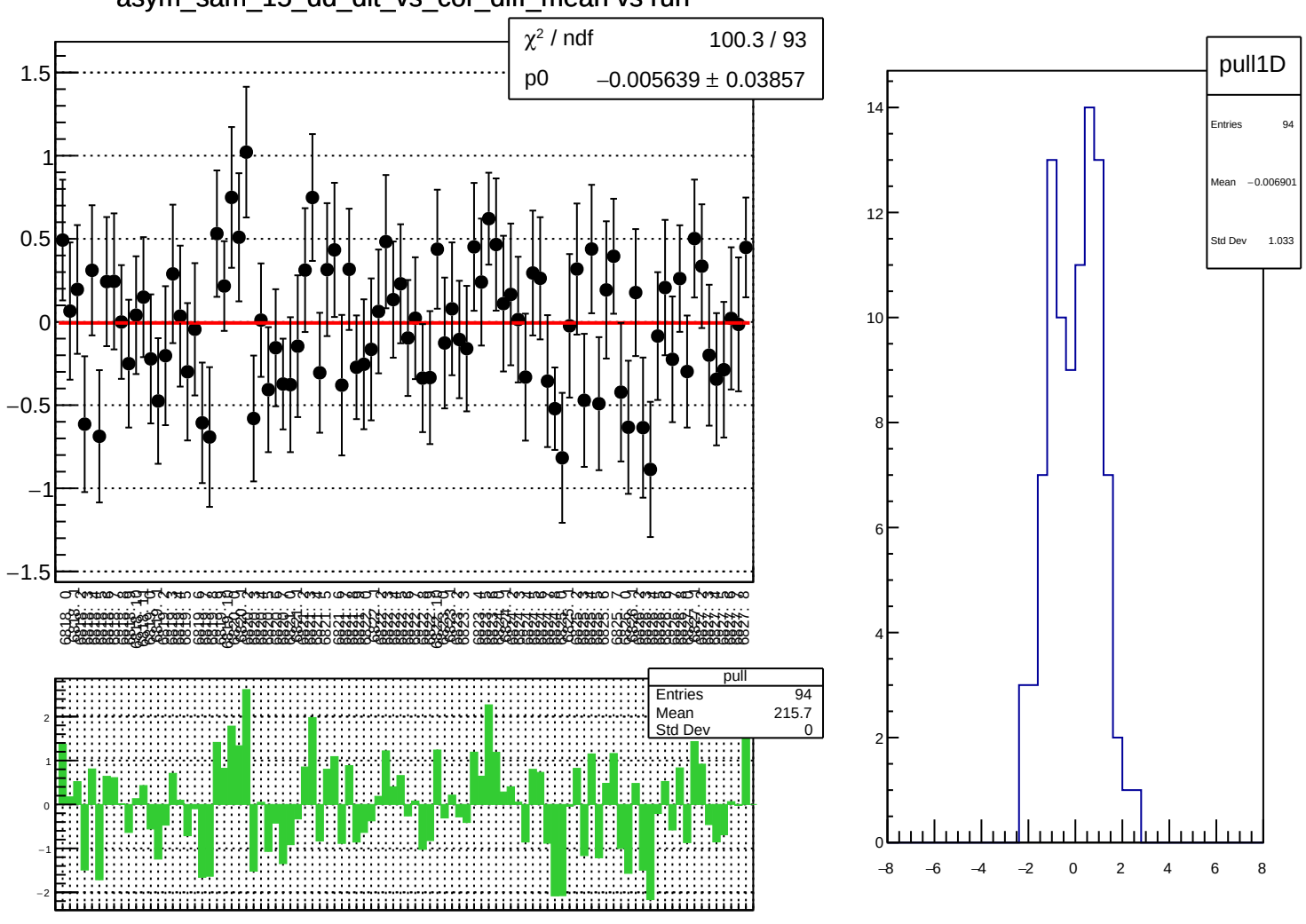

pull1D
Entries 94
Mean 0.007223
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

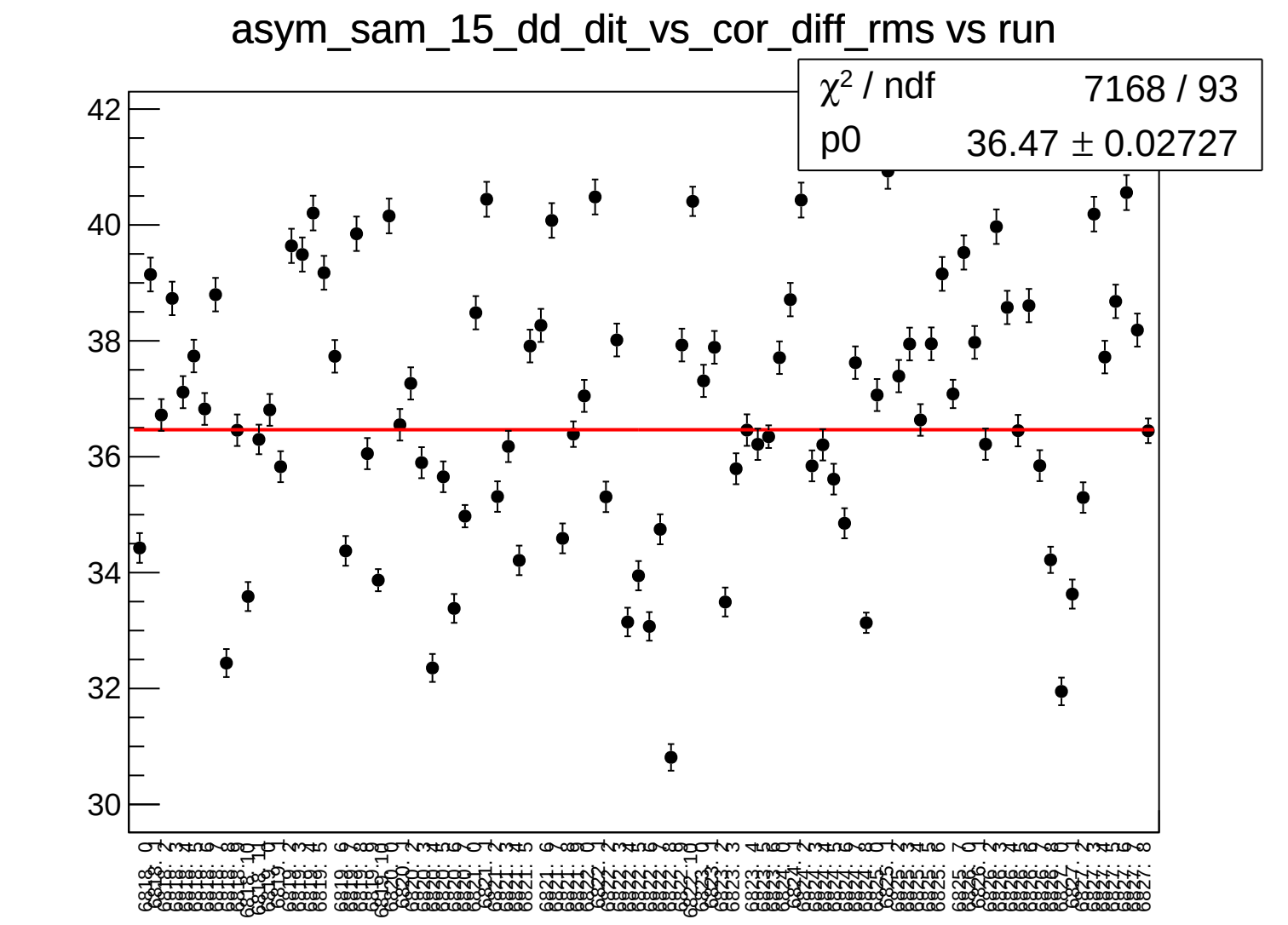

asym_sam_15_dd_rms vs run
χ² / ndf 4056 / 93
p0 601.6 ± 0.4496
700
680
660
640
620
600
580
560
540
520

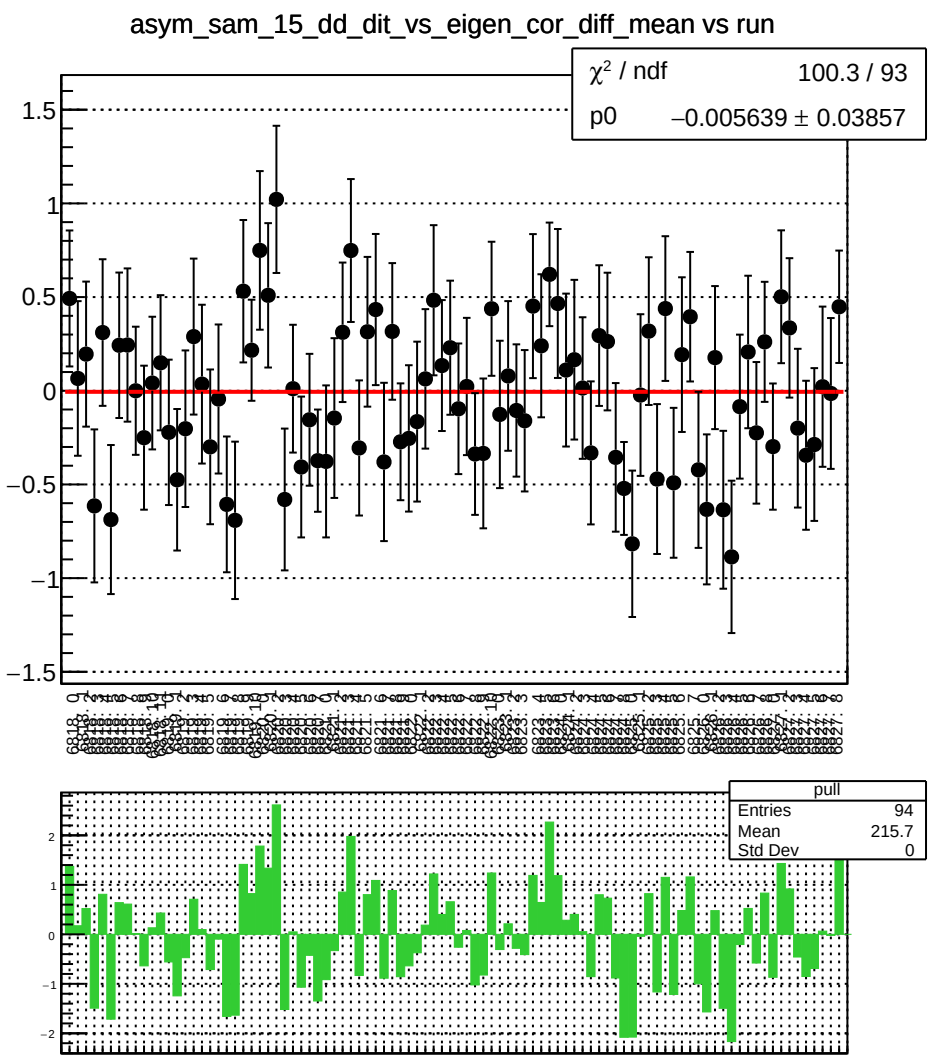

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.56 / 93
p0 1.634e−14 ± 1.691e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 94
Mean 29.96
Std Dev 45.12
2
1
0
−1
−2

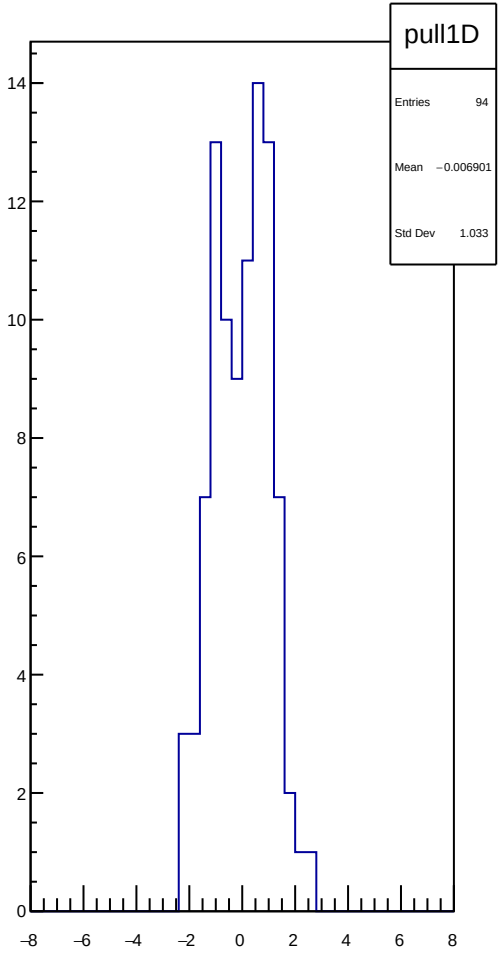

pull1D
Entries 94
Mean 0.06446
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

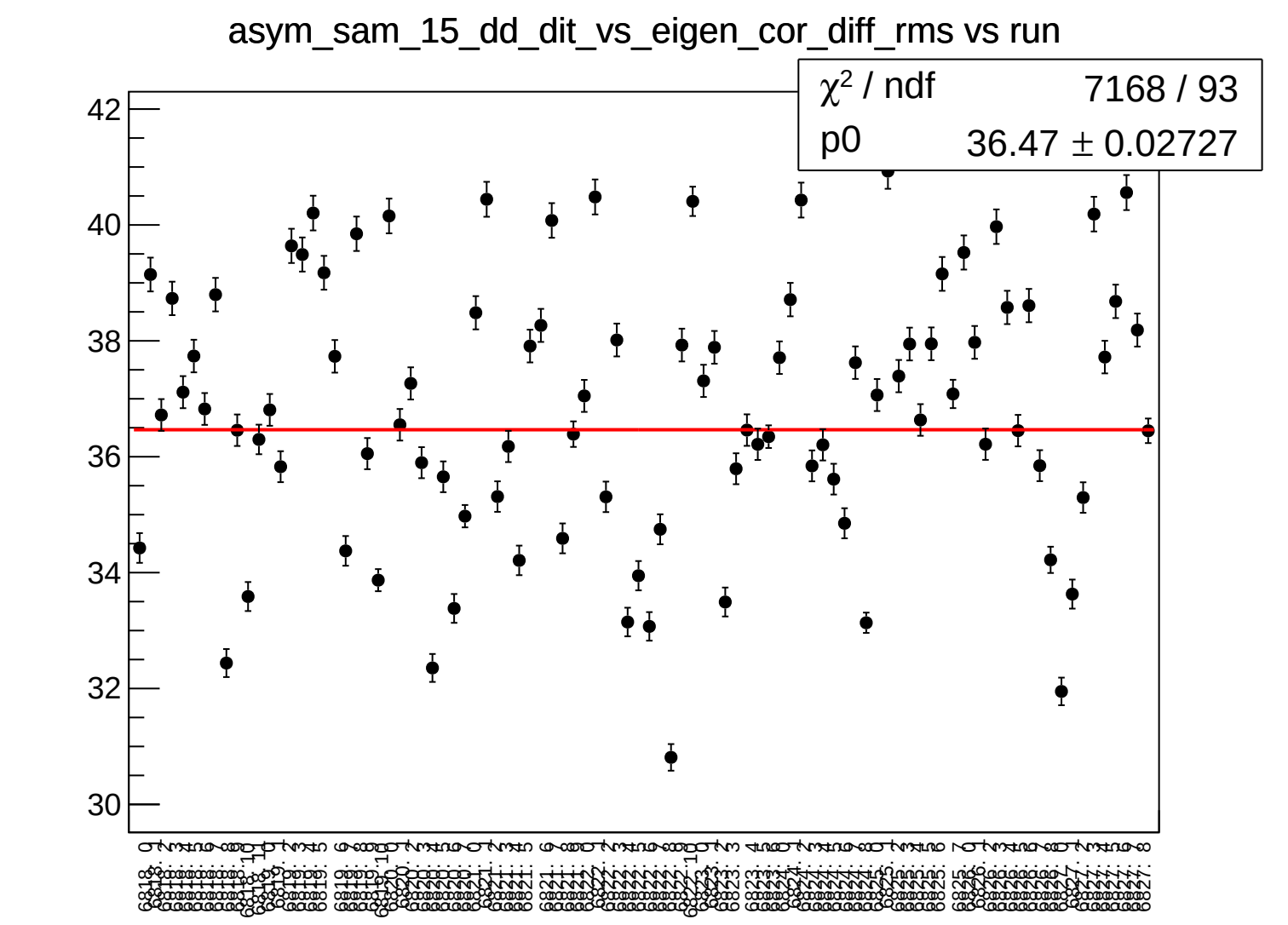

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.052e+06 / 93
p0 1.031e−11 ± 1.196e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

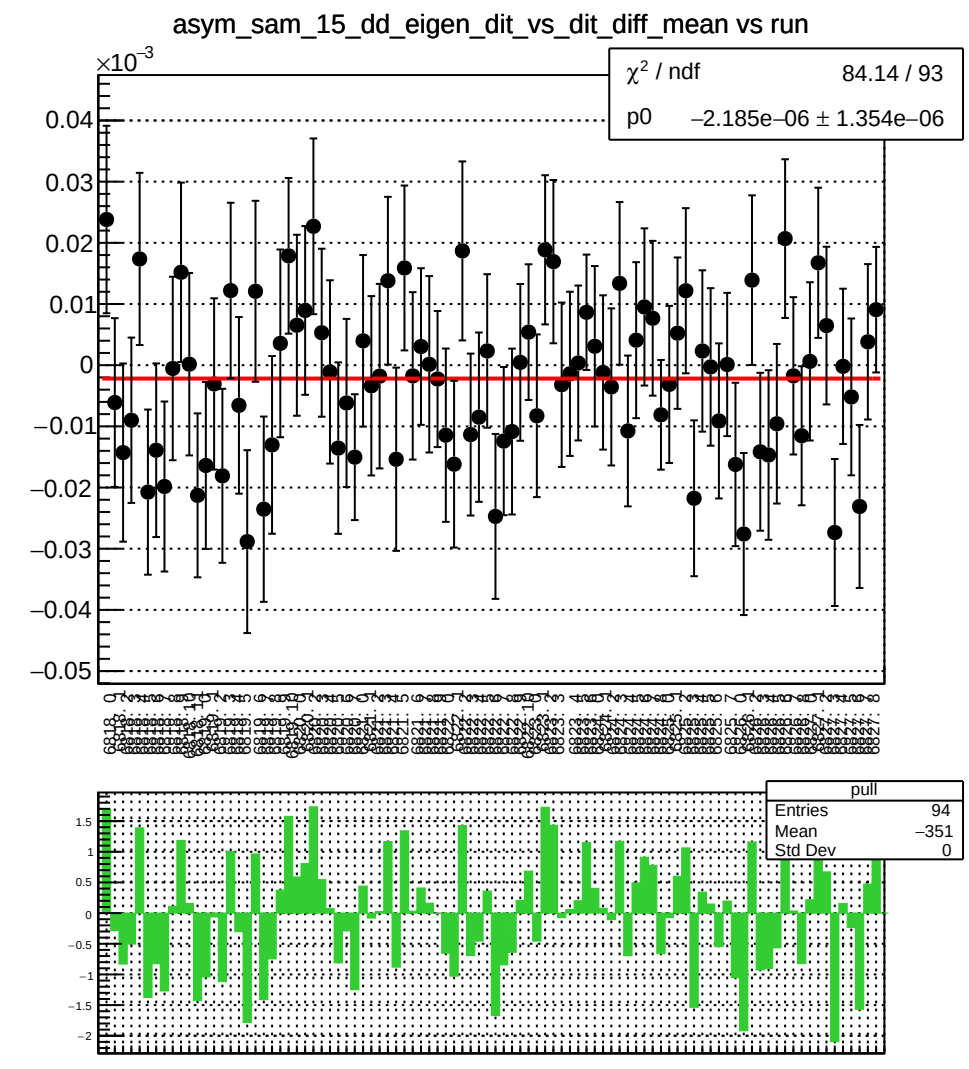

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 93
p0 −0.005639 ± 0.03857
pull
Entries 94
Mean 215.7
Std Dev 0
pull1D
Entries 94
Mean −0.006901
Std Dev 1.033

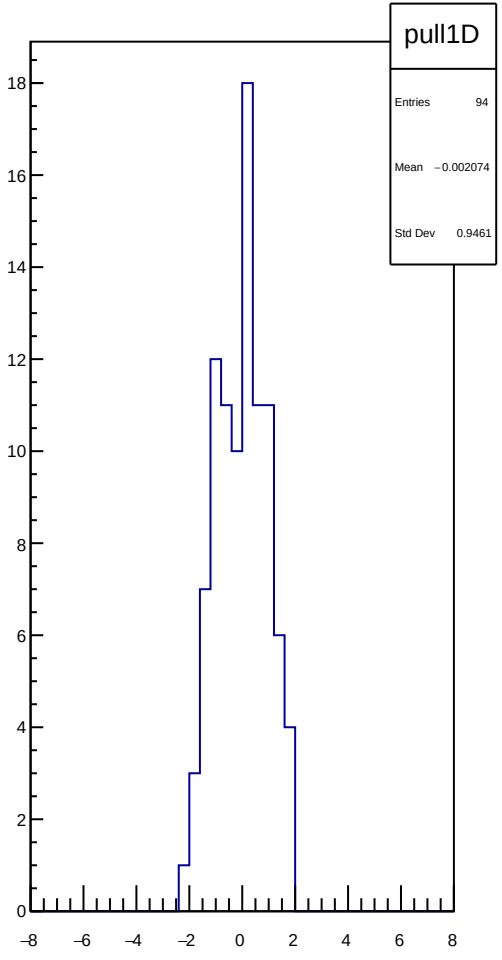

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7168 / 93
p0 36.47 ± 0.02727
42
40
38
36
34
32
30

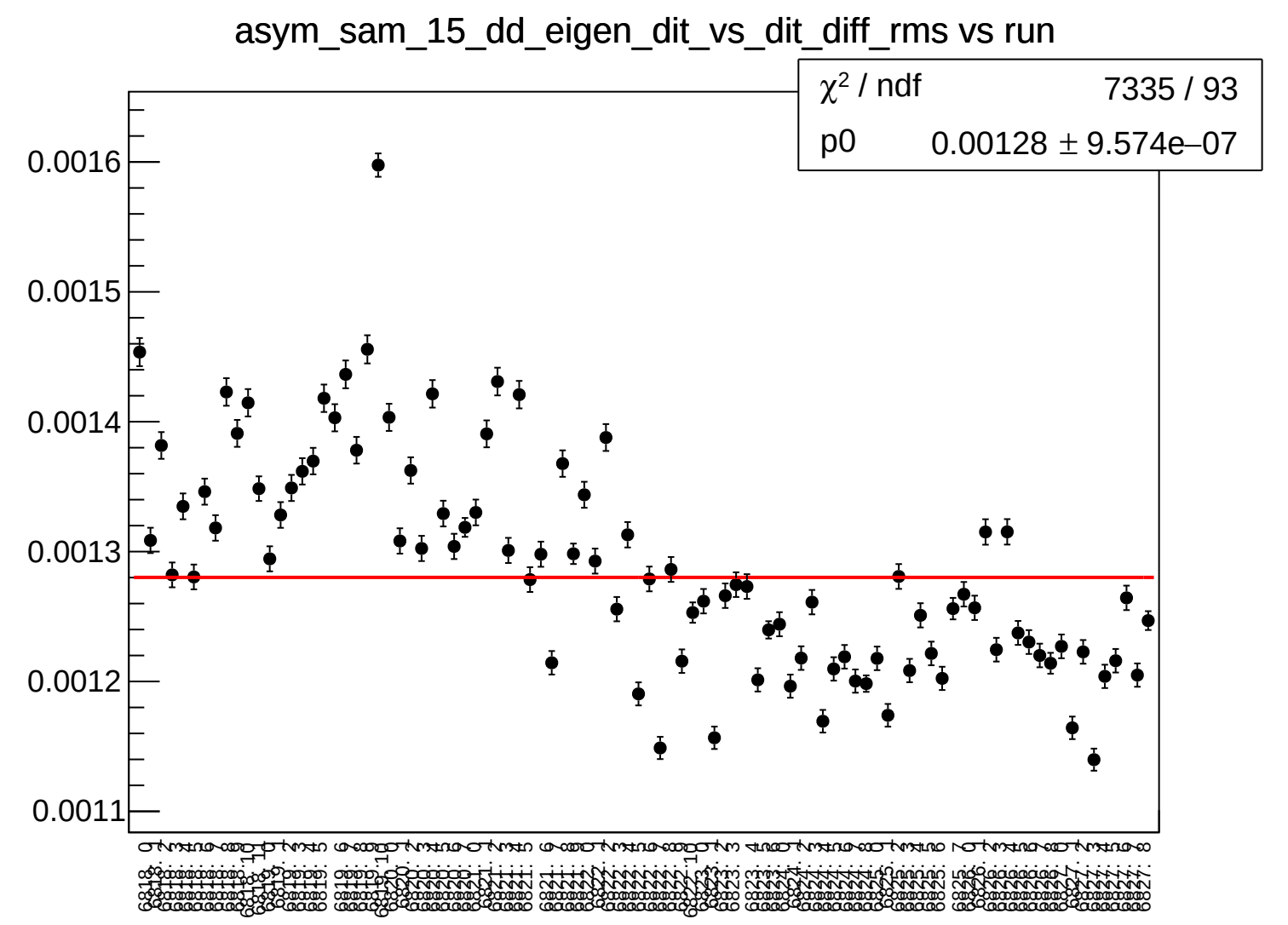

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 93
p0 −0.005639 ± 0.03857
pull
Entries 94
Mean 215.7
Std Dev 0

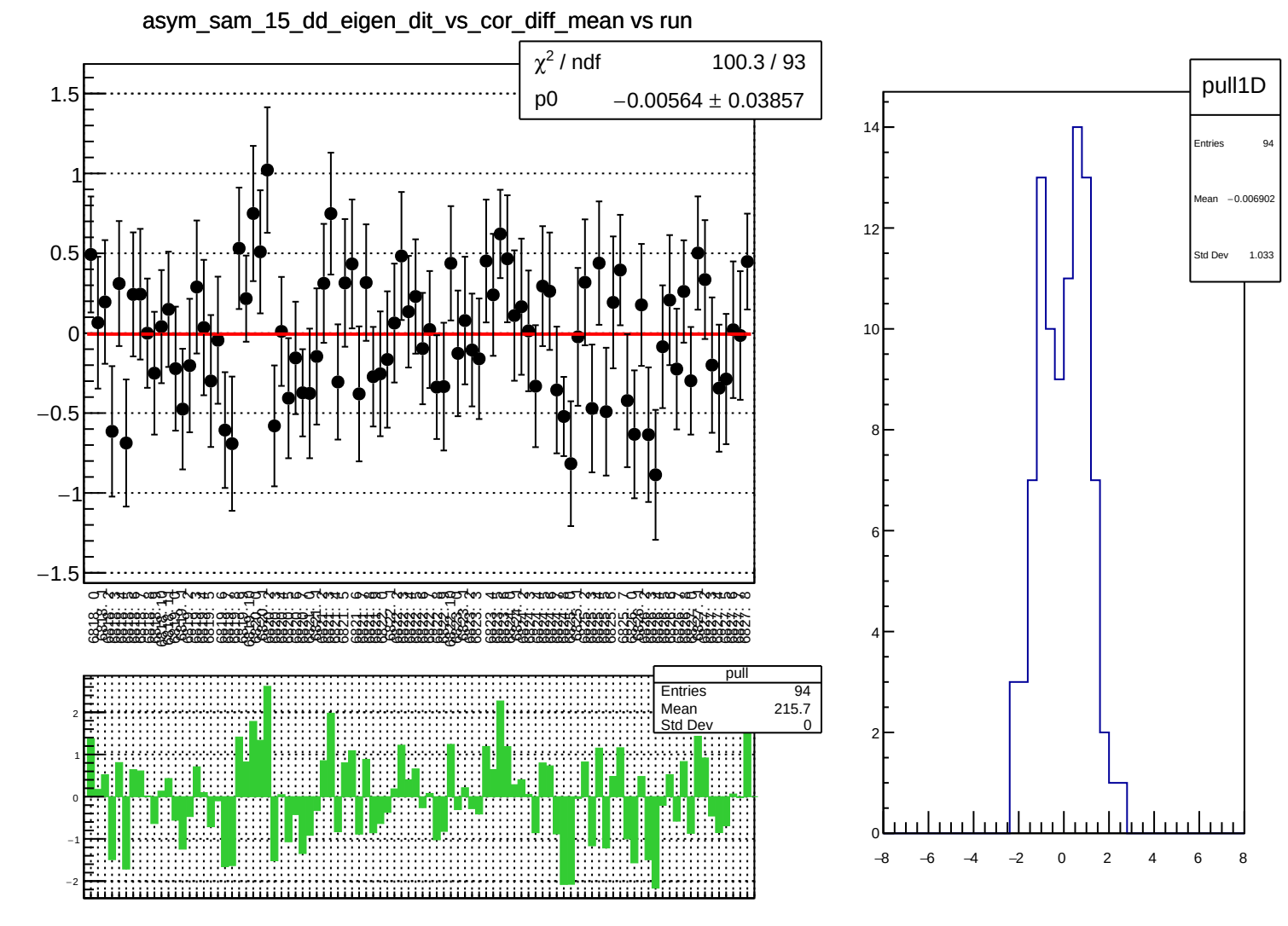

pull1D
Entries 94
Mean −0.006901
Std Dev 1.033

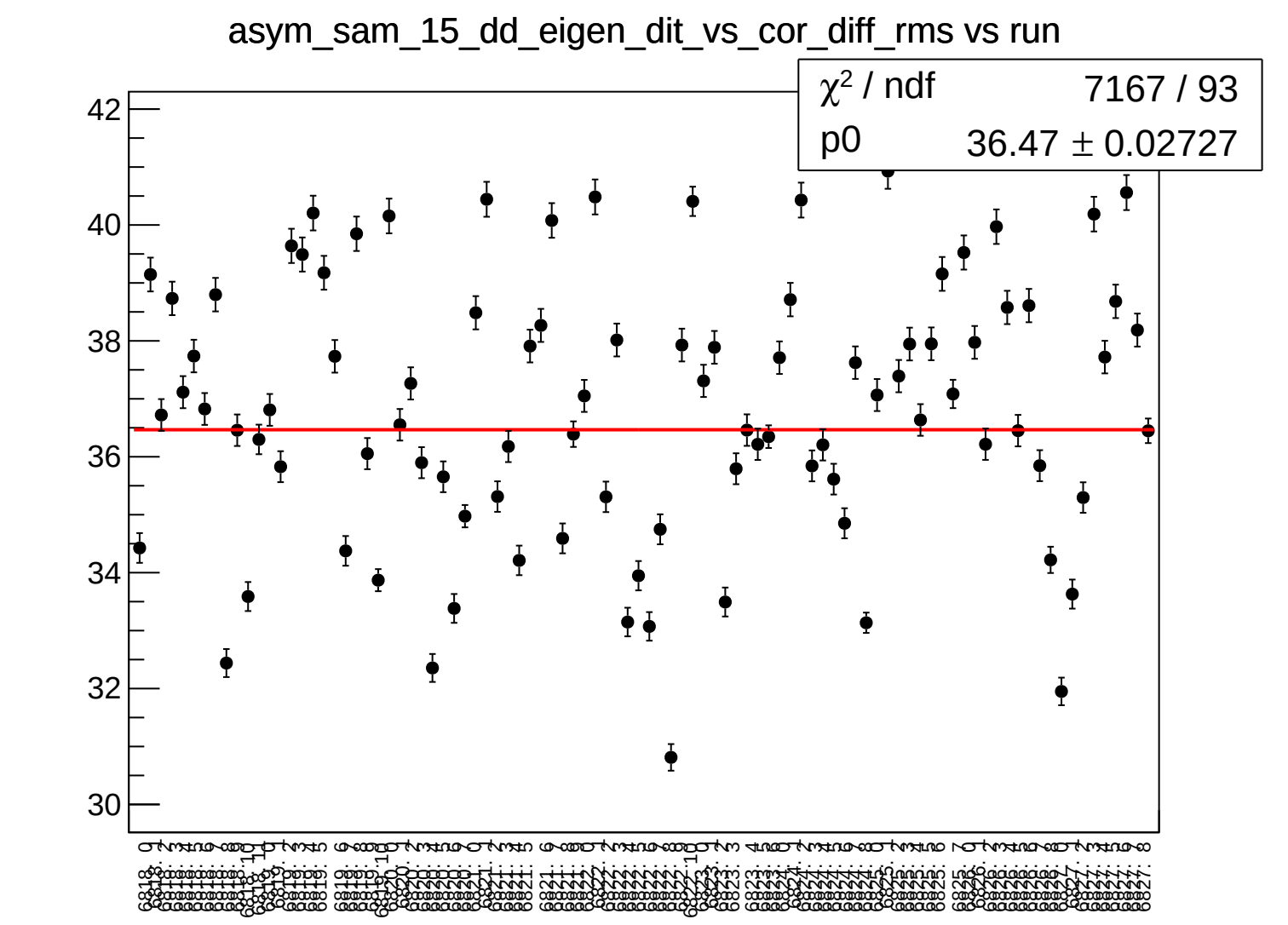

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7168 / 93
p0 36.47 ± 0.02727
42
40
38
36
34
32
30

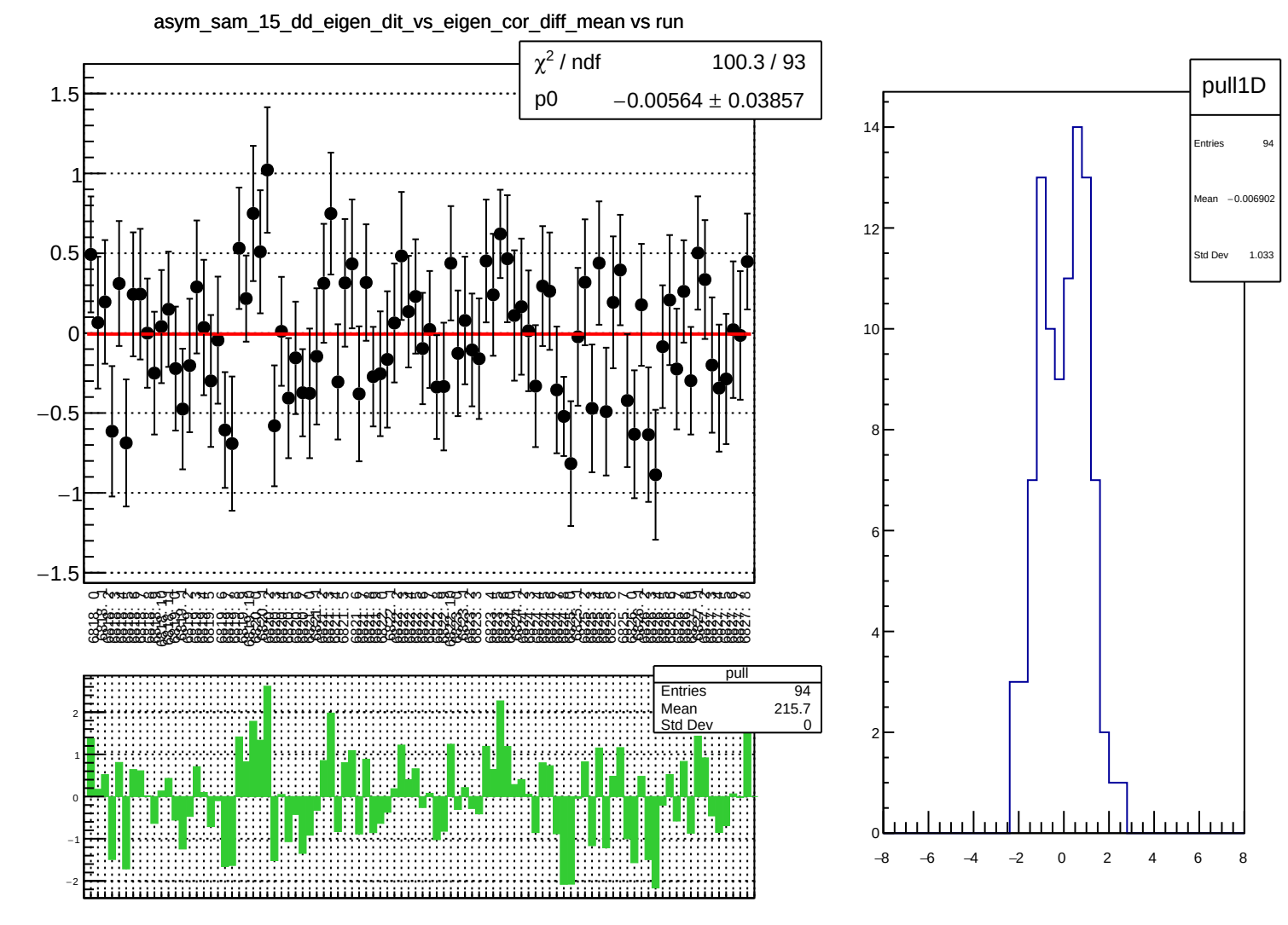

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.14 / 93
p0 −2.185e−06 ± 1.354e−06
pull
Entries 94
Mean −351
Std Dev 0

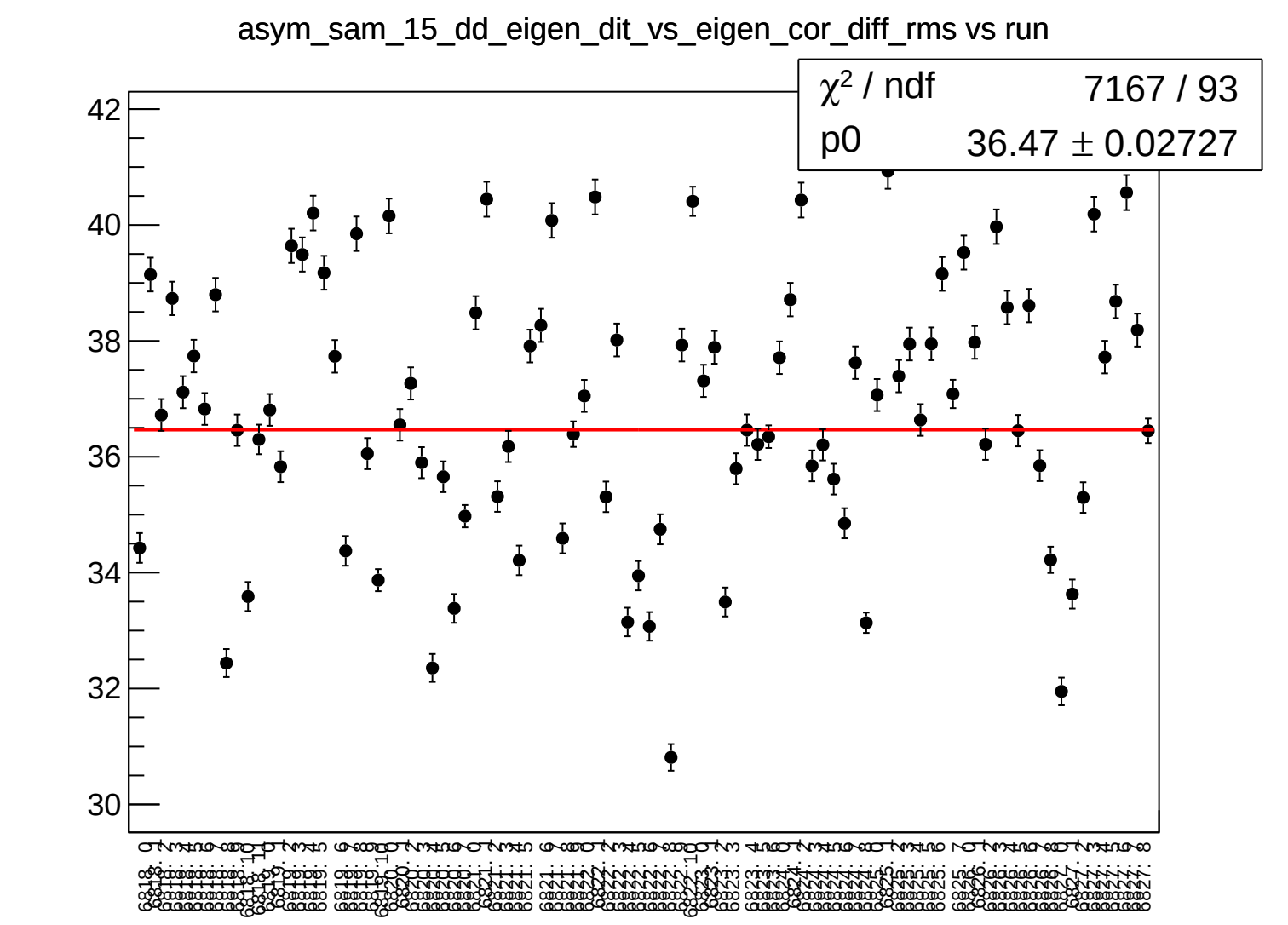

pull1D
Entries 94
Mean −0.002074
Std Dev 0.9461

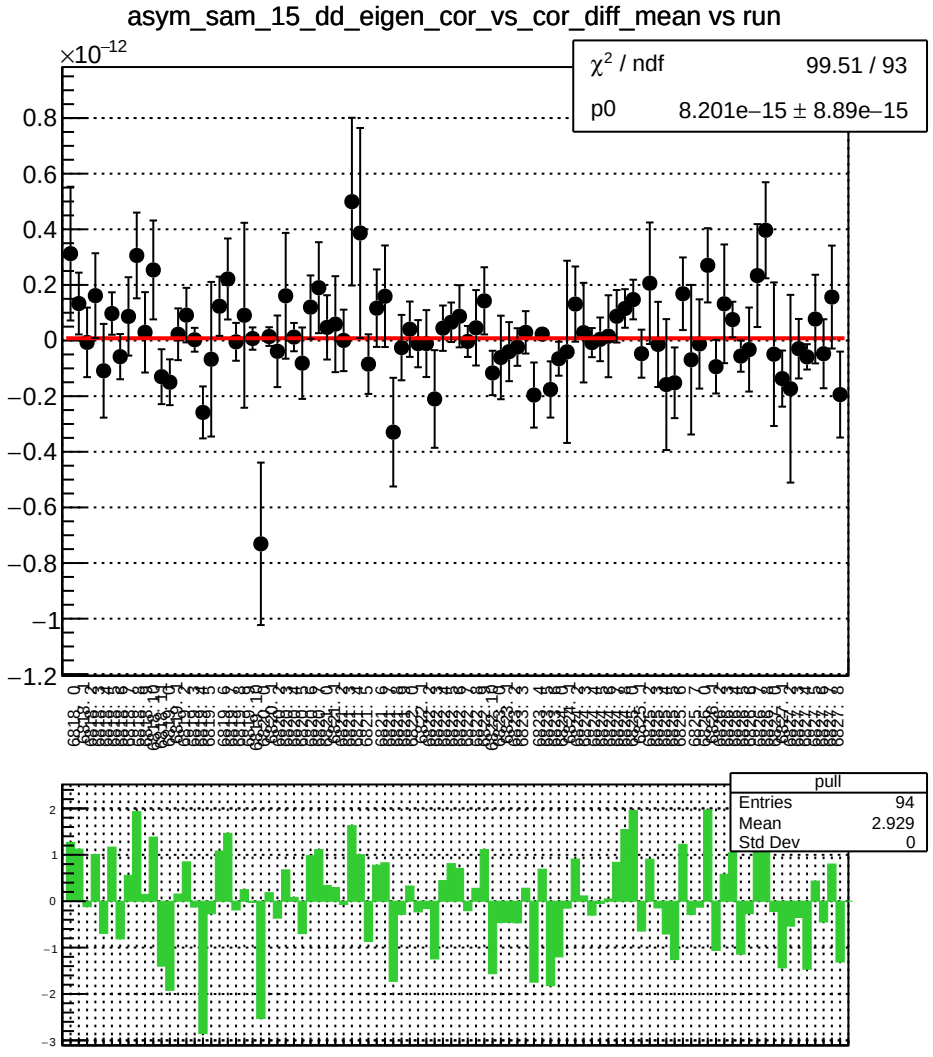

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7335 / 93
p0 0.00128 ± 9.574e–07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

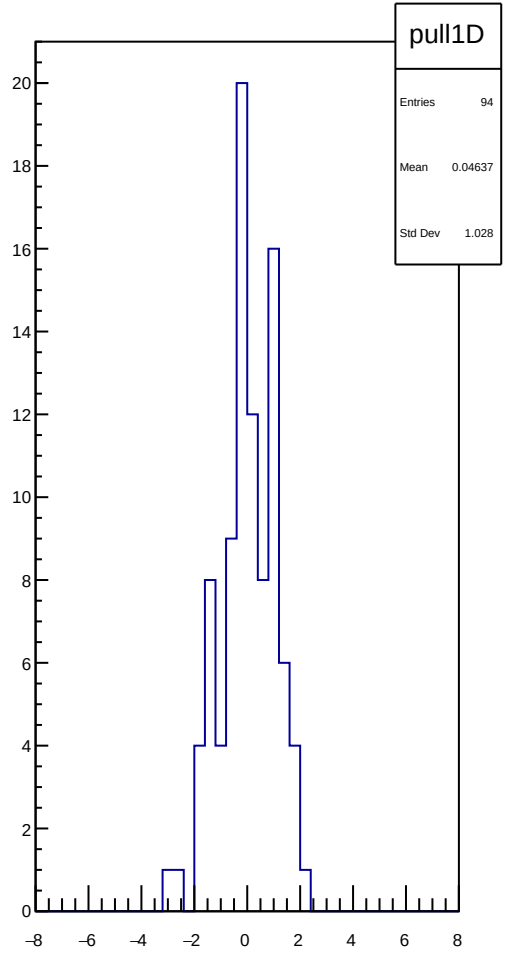

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 93
p0 −0.00564 ± 0.03857
pull
Entries 94
Mean 215.7
Std Dev 0
pull1D
Entries 94
Mean −0.006902
Std Dev 1.033

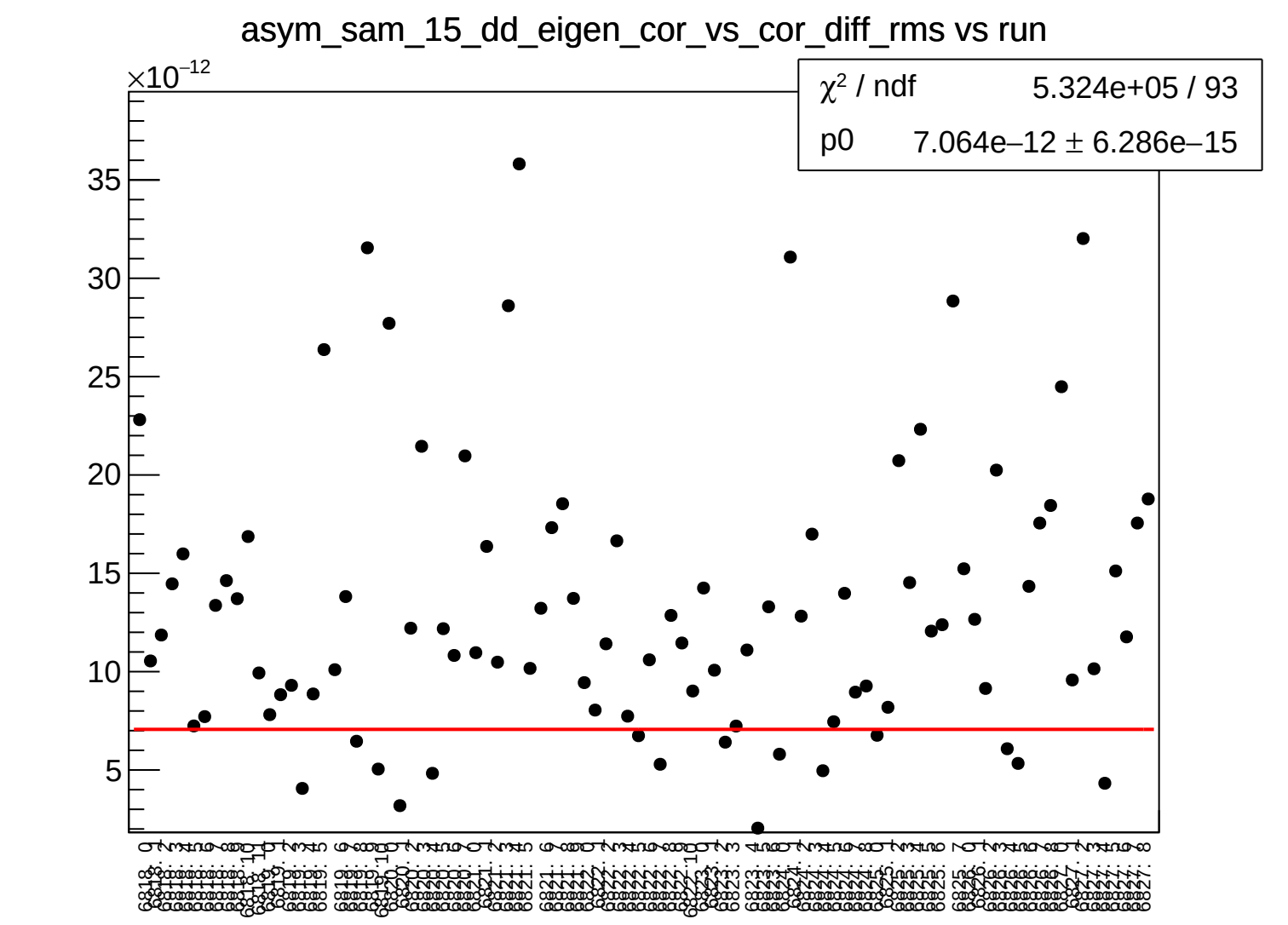

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7167 / 93
p0 36.47 ± 0.02727
42
40
38
36
34
32
30

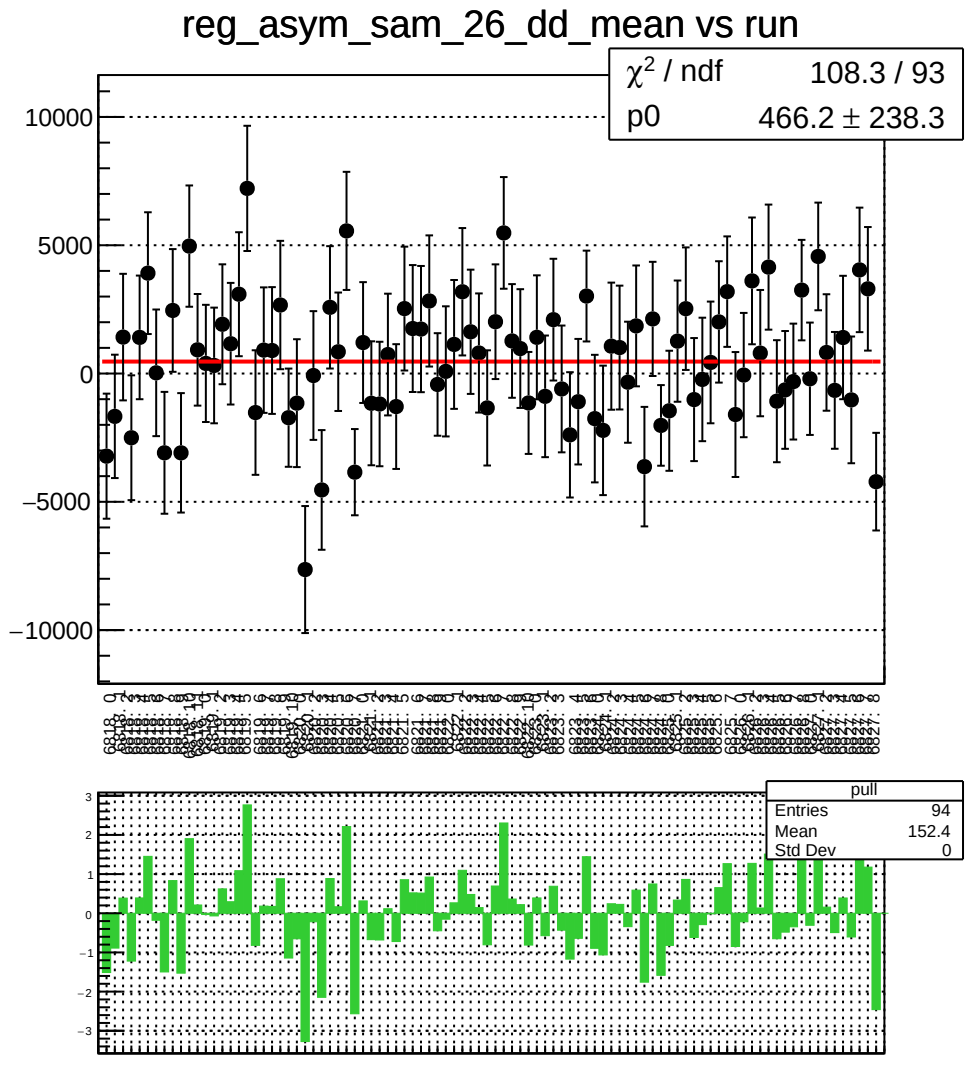

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 93
p0 −0.00564 ± 0.03857
pull
Entries 94
Mean 215.7
Std Dev 0
pull1D
Entries 94
Mean −0.006902
Std Dev 1.033

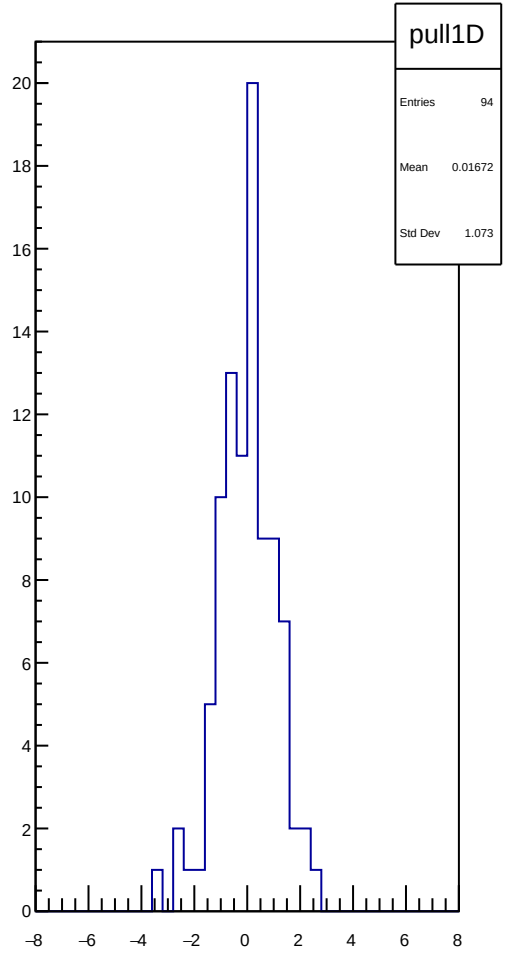

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7167 / 93
p0 36.47 ± 0.02727
42
40
38
36
34
32
30

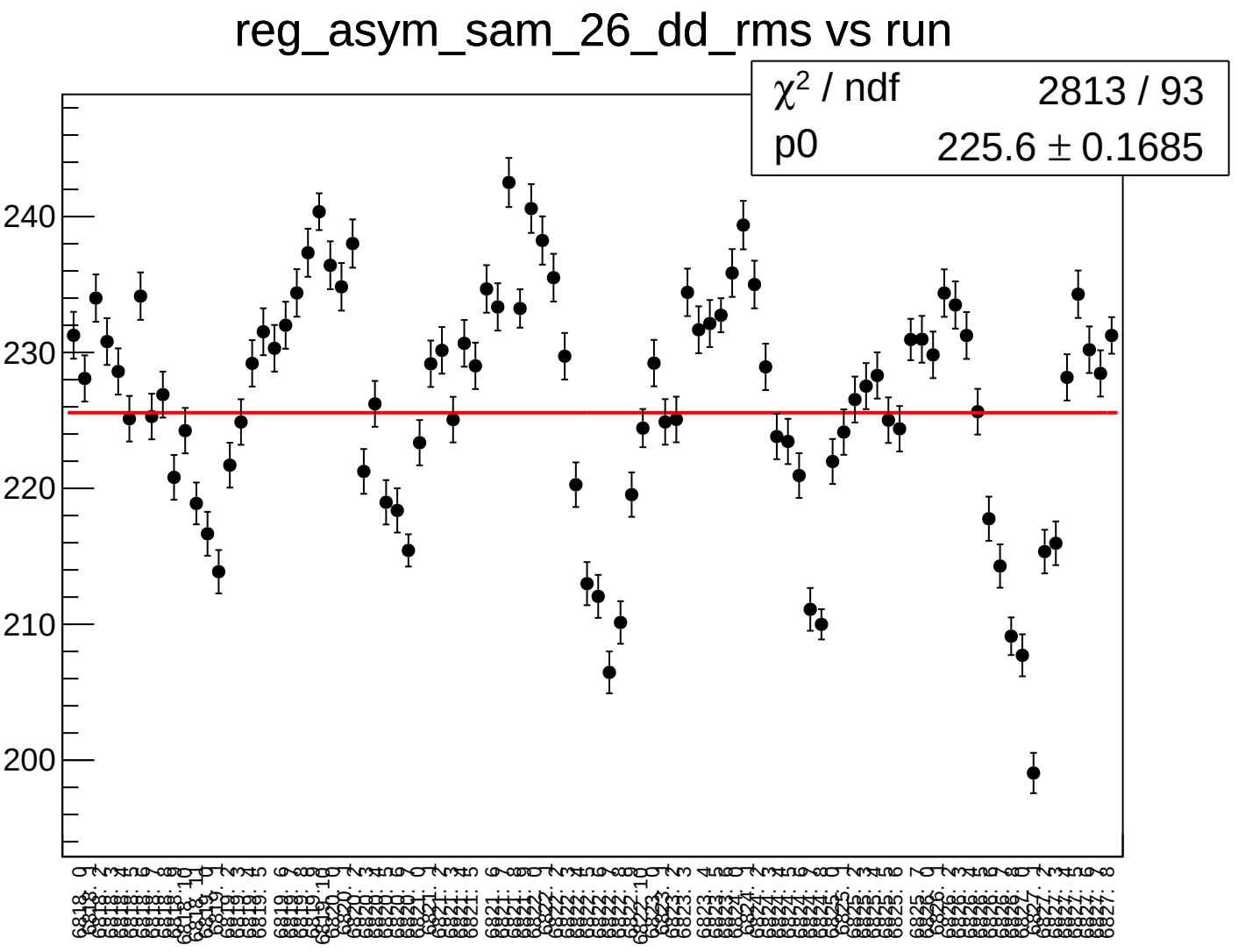

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.51 / 93
p0 8.201e−15 ± 8.89e−15
pull
Entries 94
Mean 2.929
Std Dev 0

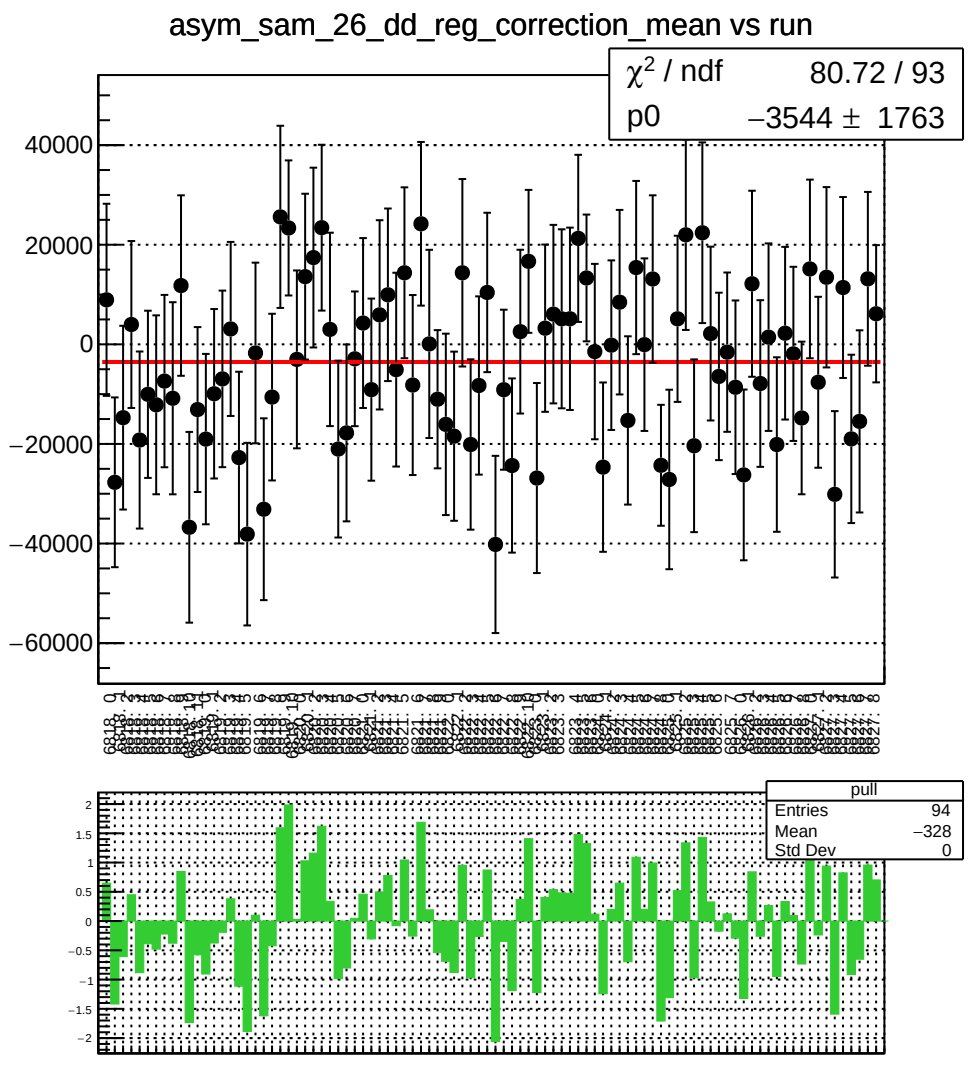

pull1D
Entries 94
Mean 0.04637
Std Dev 1.028

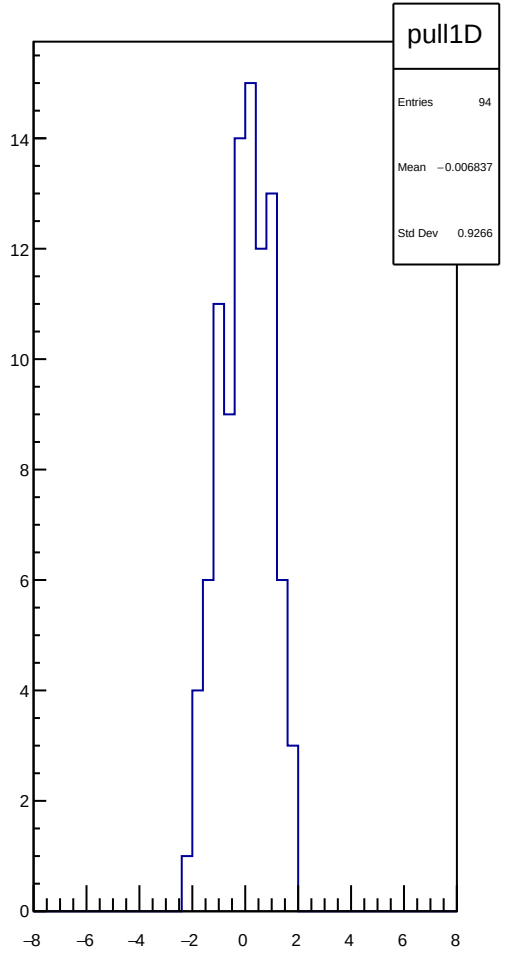

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.324e+05 / 93
p0 7.064e−12 ± 6.286e−15
35
30
25
20
15
10
5

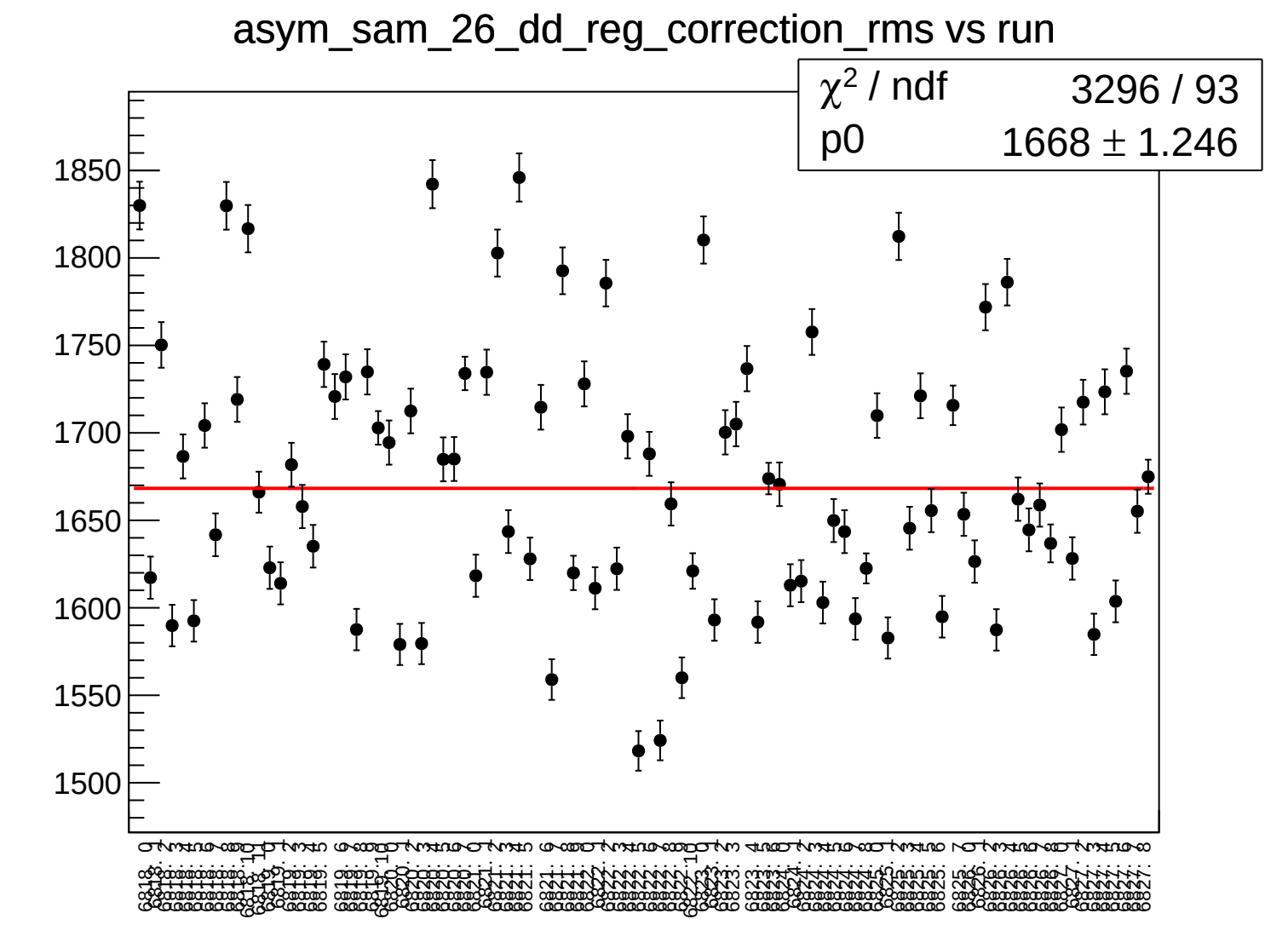

reg_asym_sam_26_dd_mean vs run
χ² / ndf 108.3 / 93
p0 466.2 ± 238.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 152.4
Std Dev 0
3
2
1
0
−1
−2
−3

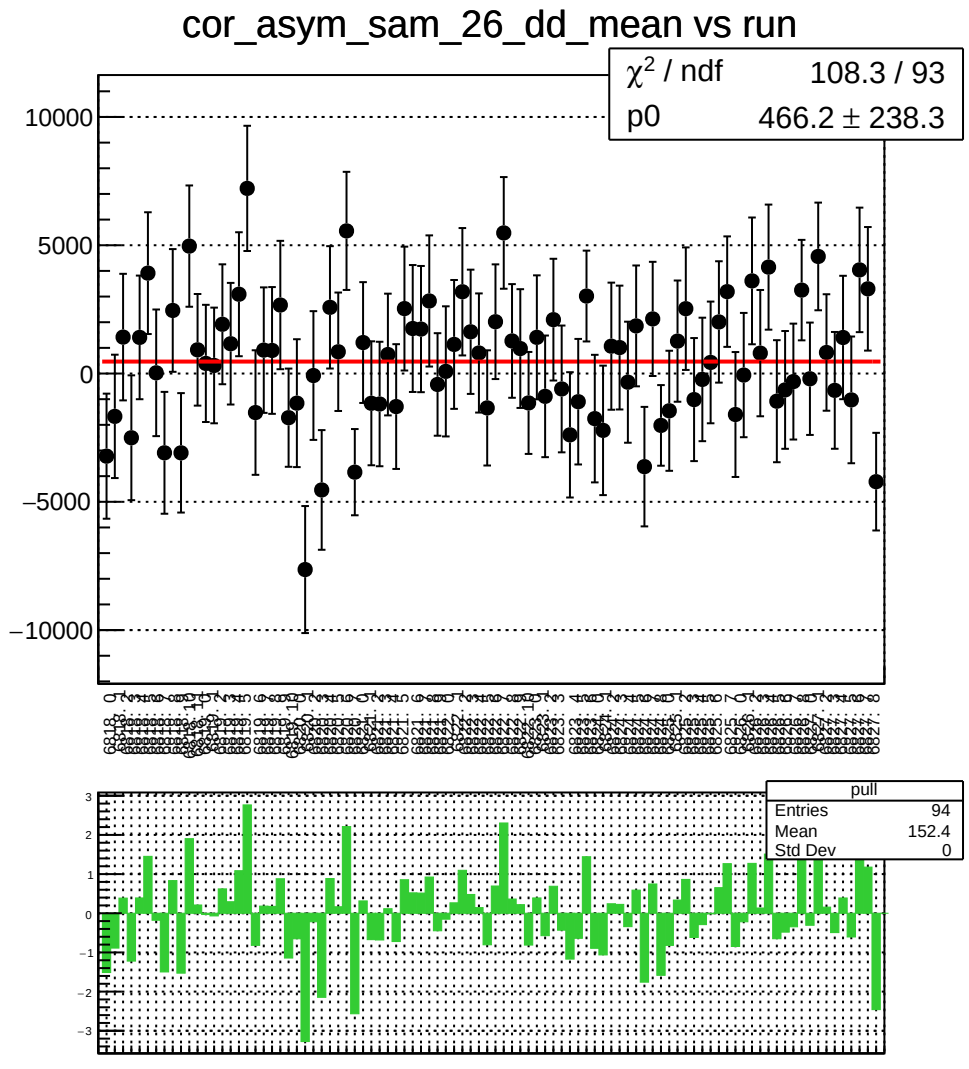

pull1D
Entries 94
Mean 0.01672
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

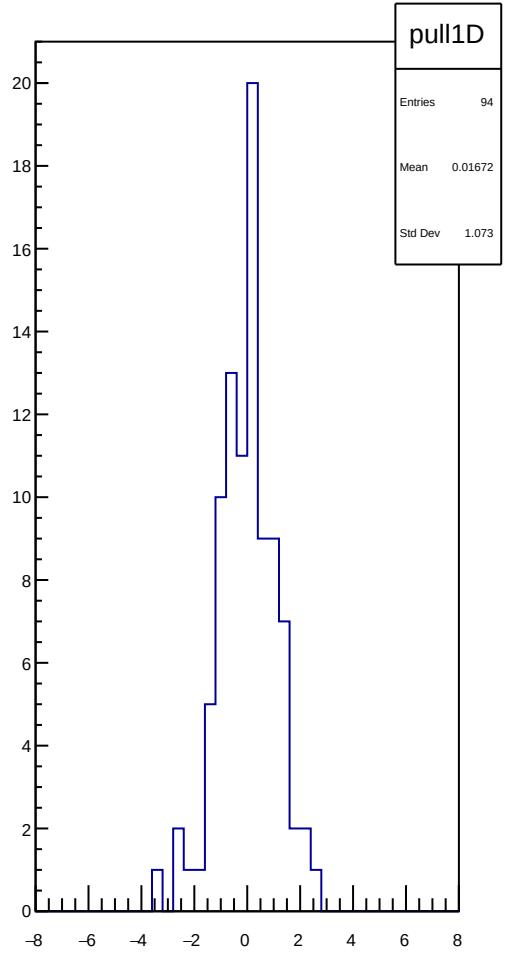

reg_asym_sam_26_dd_rms vs run
χ² / ndf 2813 / 93
p0 225.6 ± 0.1685
240
230
220
210
200

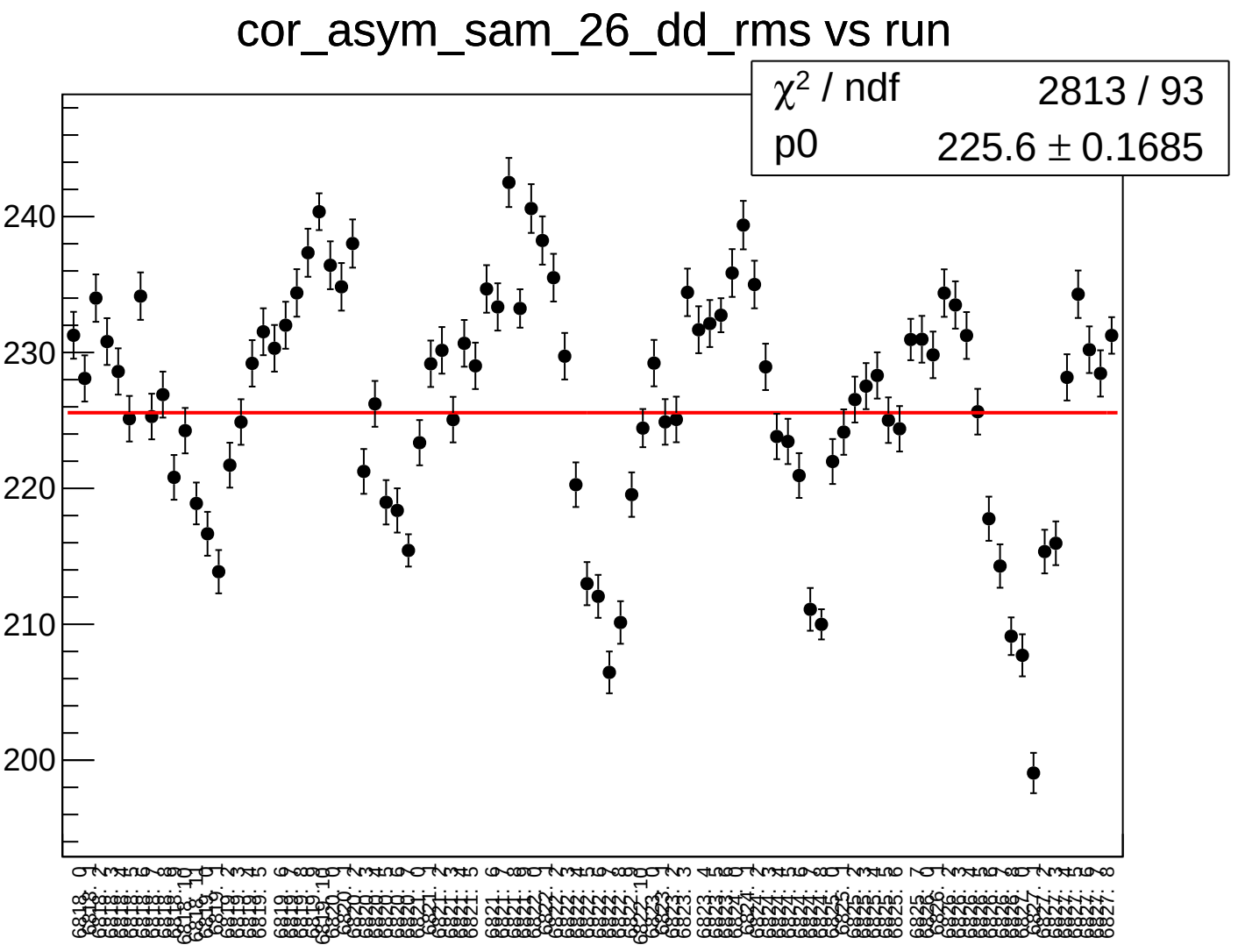

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 80.72 / 93
p0 −3544 ± 1763
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −328
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

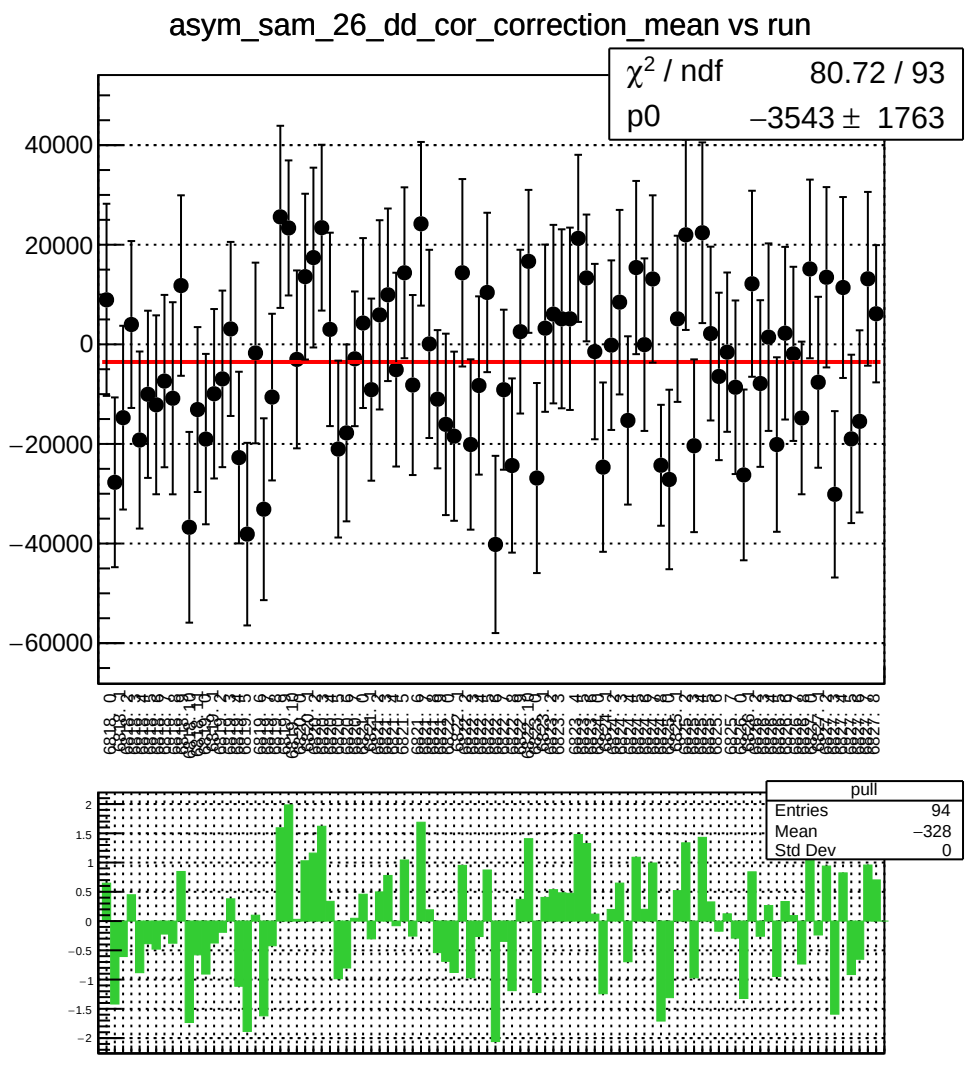

pull1D
Entries 94
Mean −0.006837
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

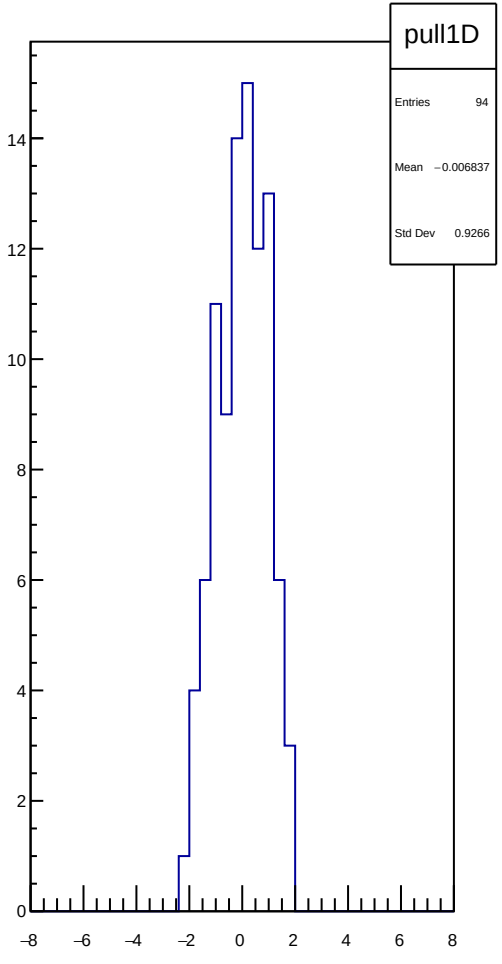

asym_sam_26_dd_reg_correction_rms vs run
χ^2 / ndf 3296 / 93
p0 1668 ± 1.246
1850
1800
1750
1700
1650
1600
1550
1500

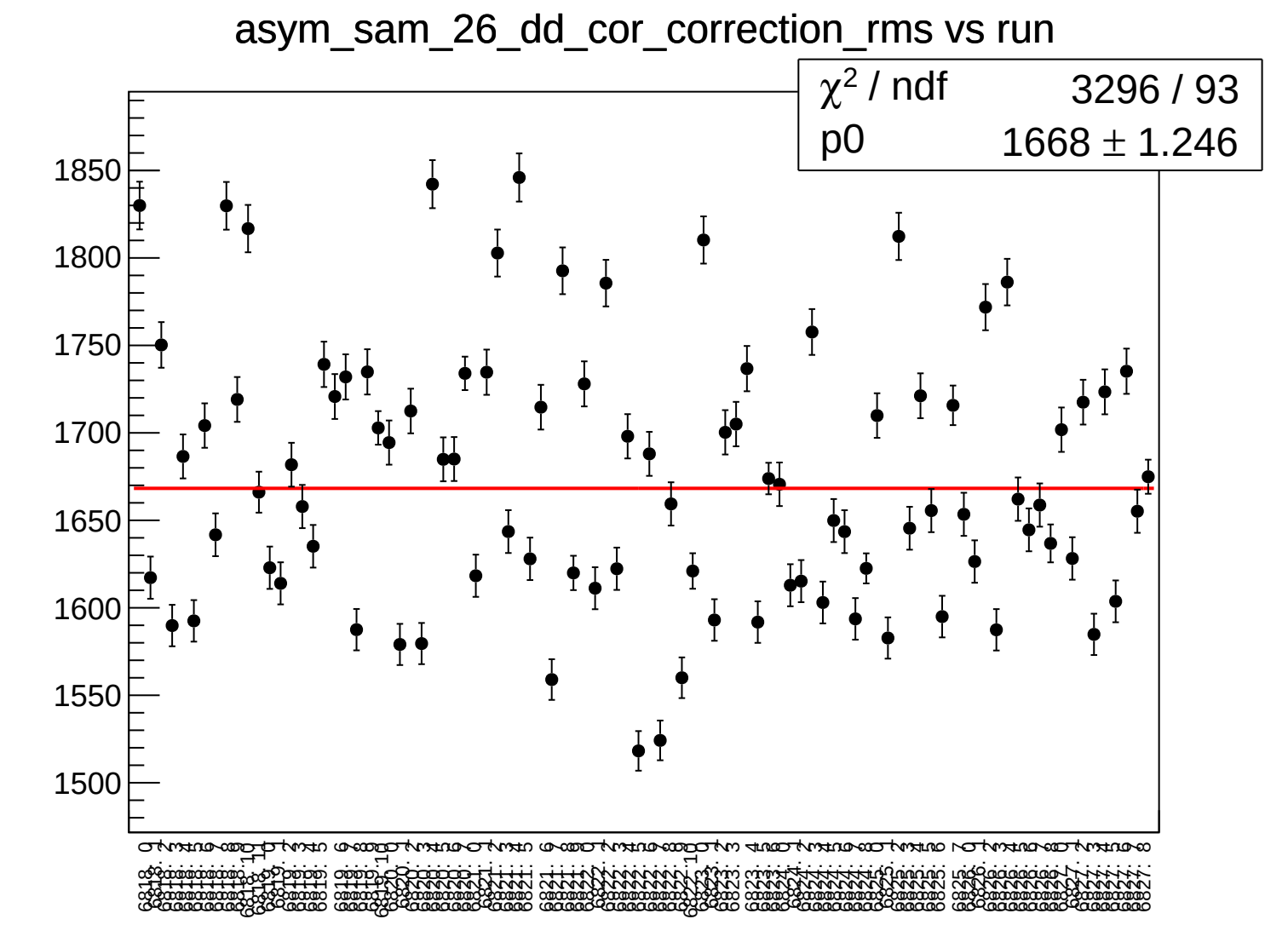

cor_asym_sam_26_dd_mean vs run
χ² / ndf 108.3 / 93
p0 466.2 ± 238.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 152.4
Std Dev 0
3
2
1
0
−1
−2
−3

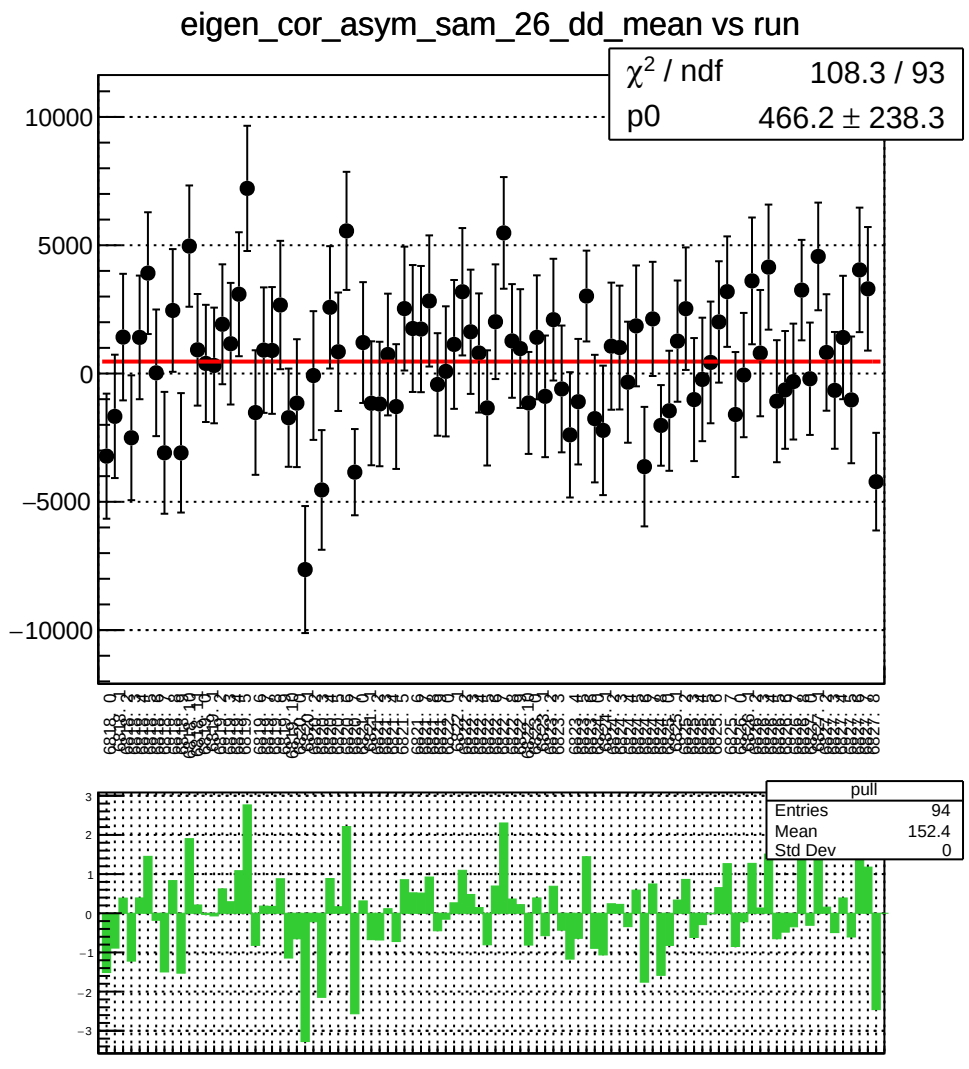

pull1D
Entries 94
Mean 0.01672
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

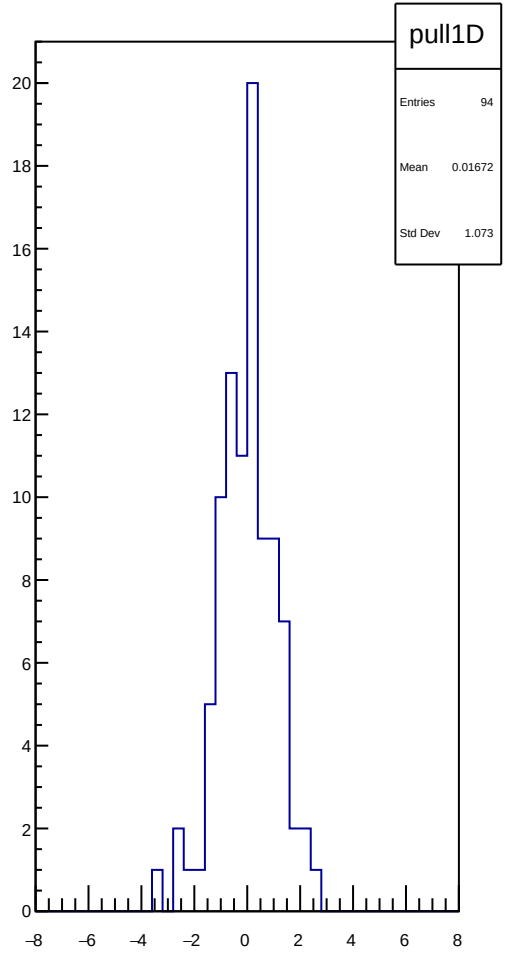

cor_asym_sam_26_dd_rms vs run
χ² / ndf 2813 / 93
p0 225.6 ± 0.1685
240
230
220
210
200

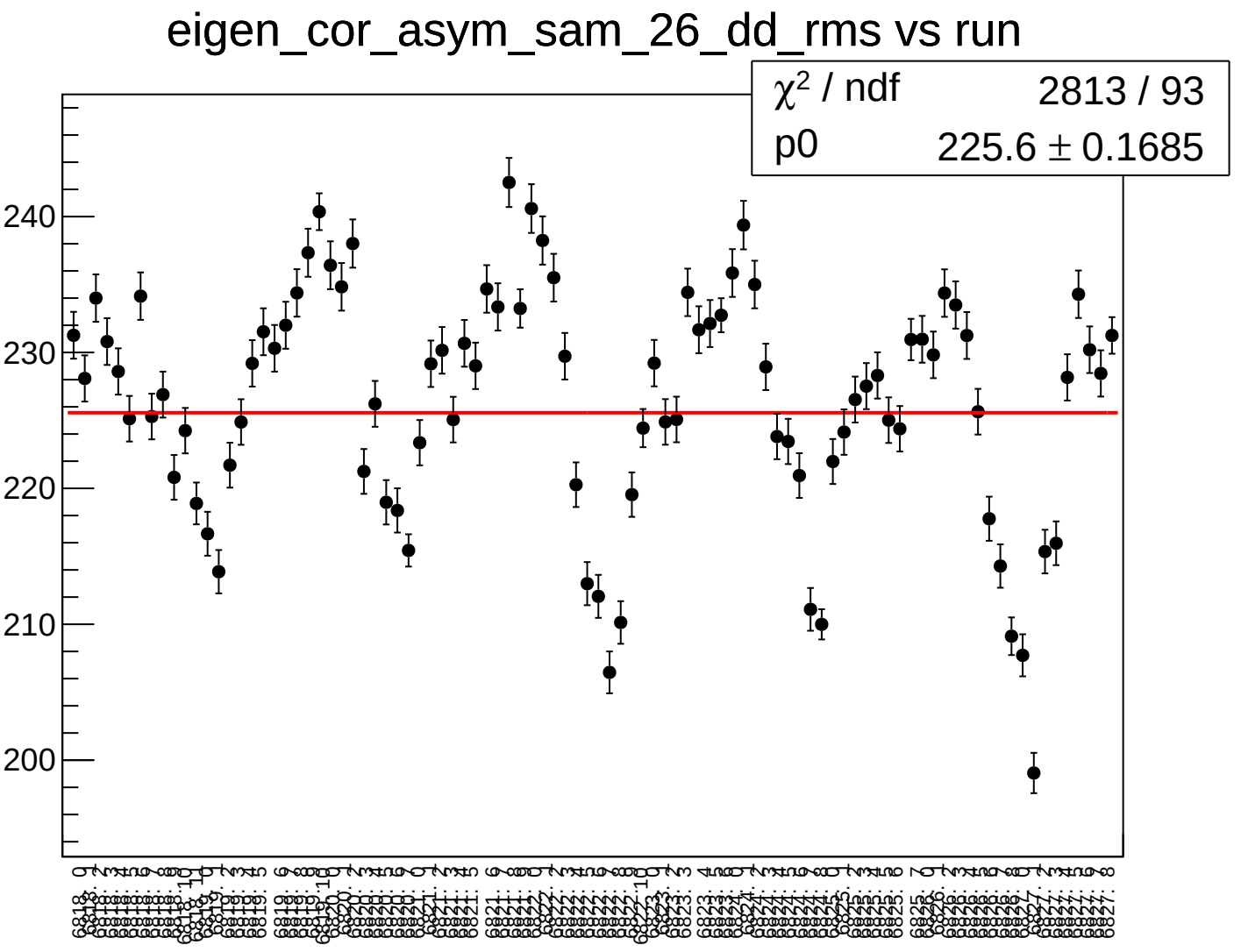

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 80.72 / 93
p0 −3543 ± 1763
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −328
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

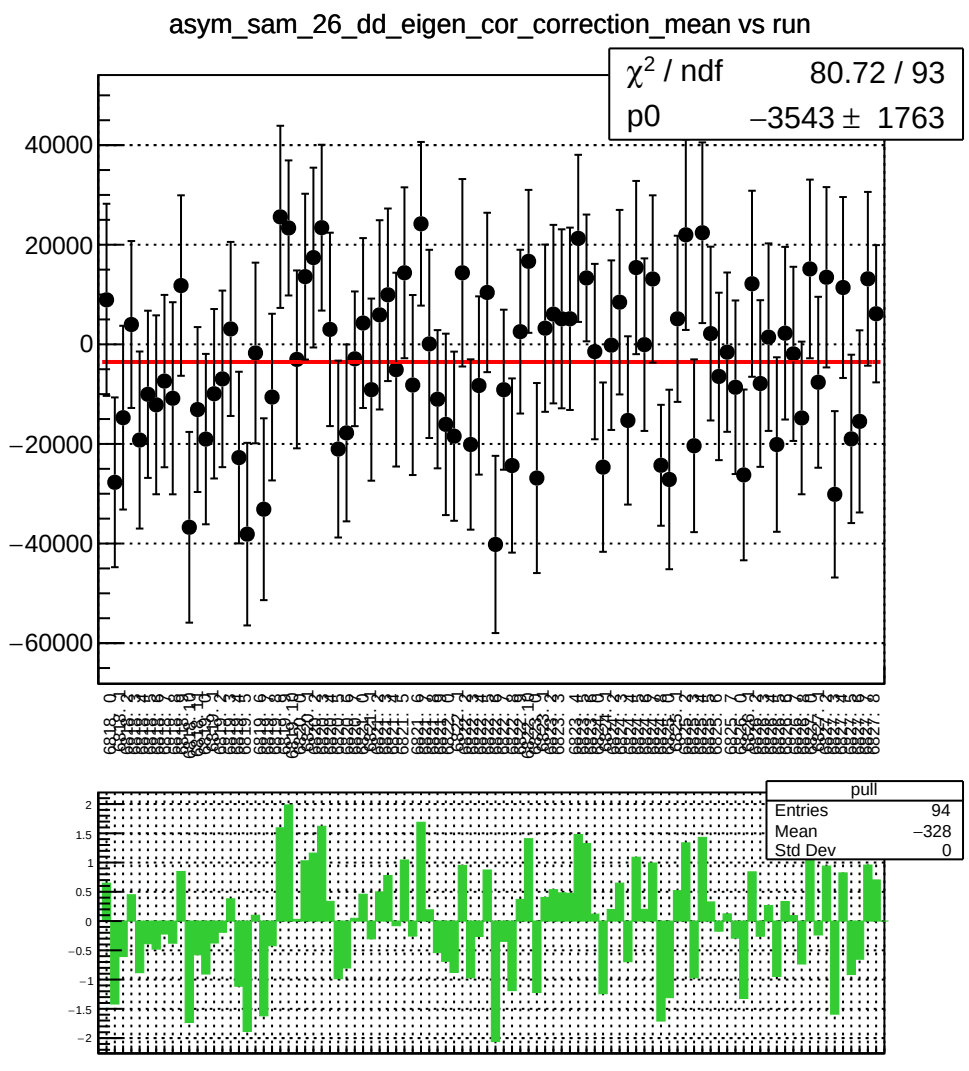

pull1D
Entries 94
Mean −0.006837
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

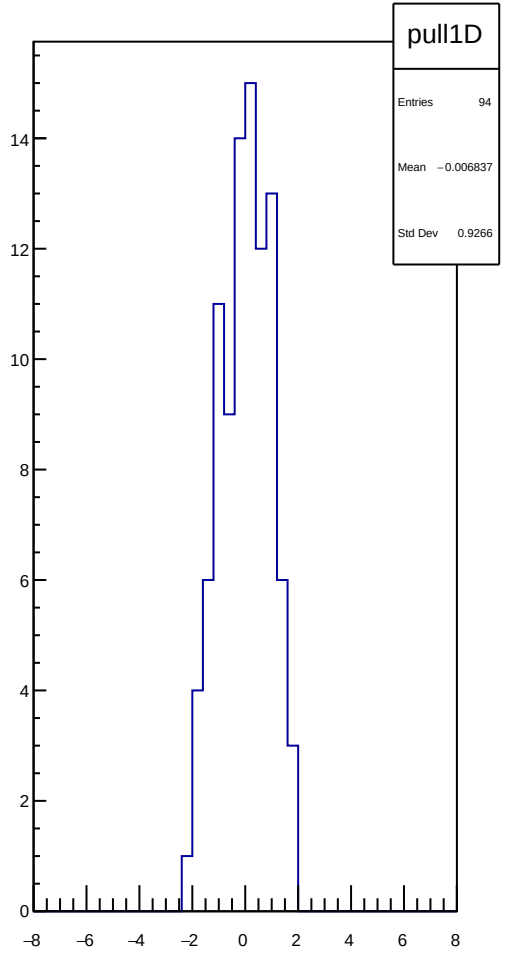

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 3296 / 93
p0 1668 ± 1.246
1850
1800
1750
1700
1650
1600
1550
1500

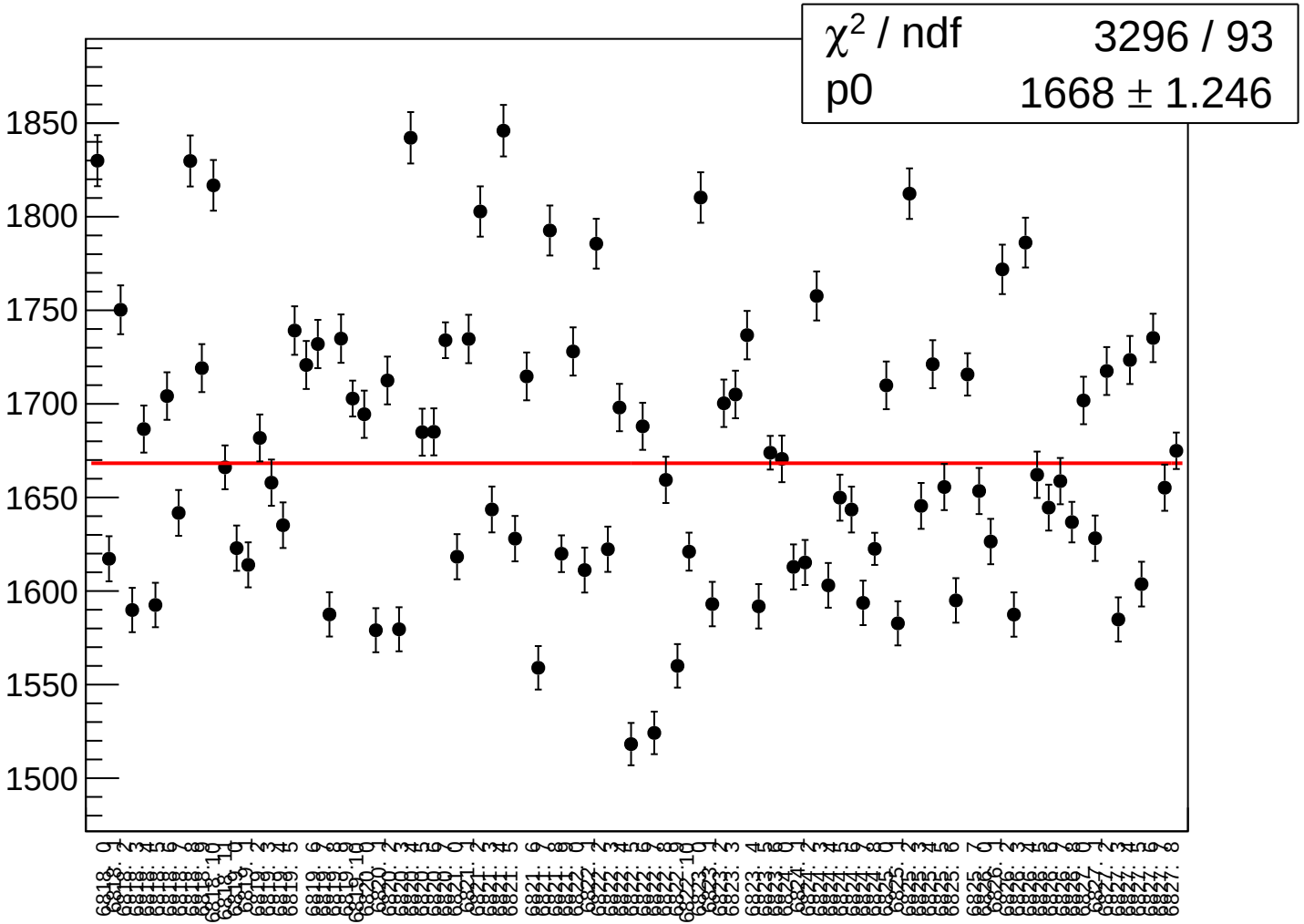

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 108.3 / 93
p0 466.2 ± 238.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 152.4
Std Dev 0
3
2
1
0
−1
−2
−3

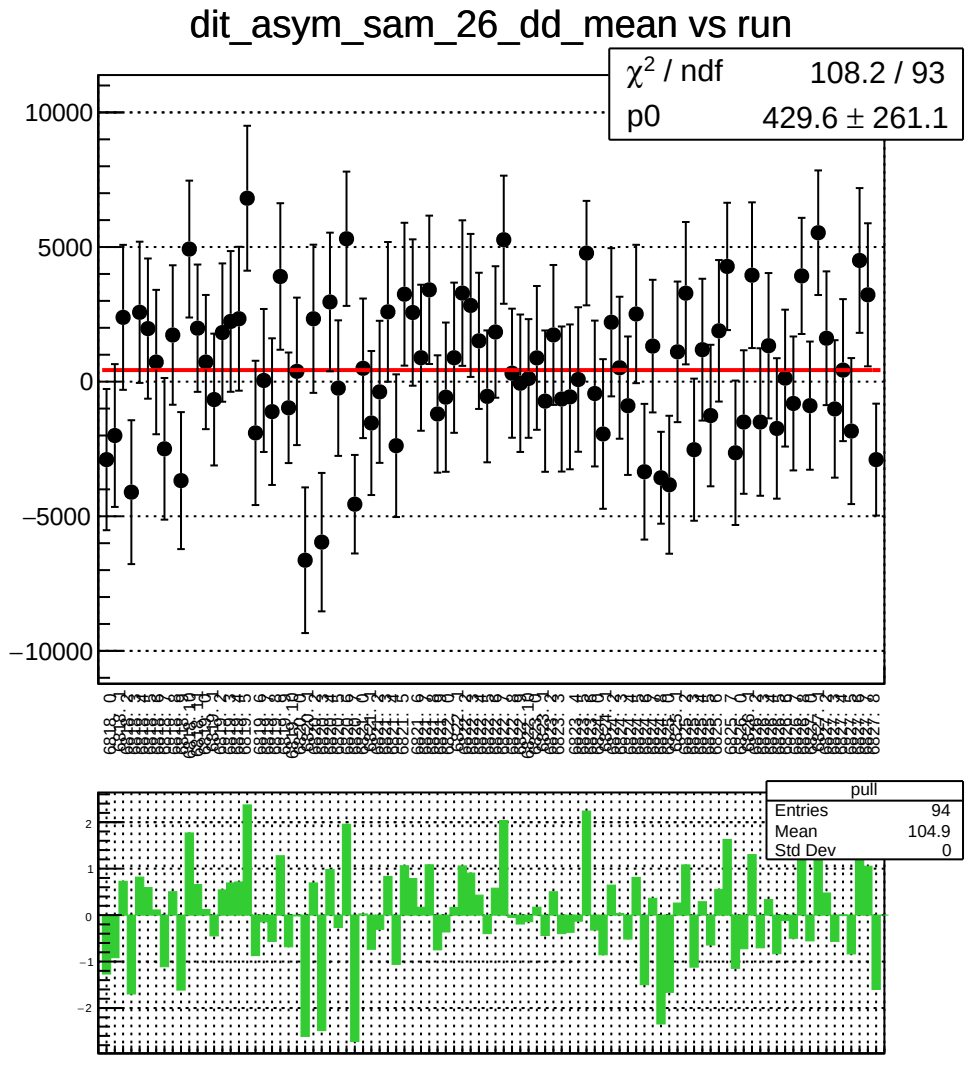

pull1D
Entries 94
Mean 0.01672
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

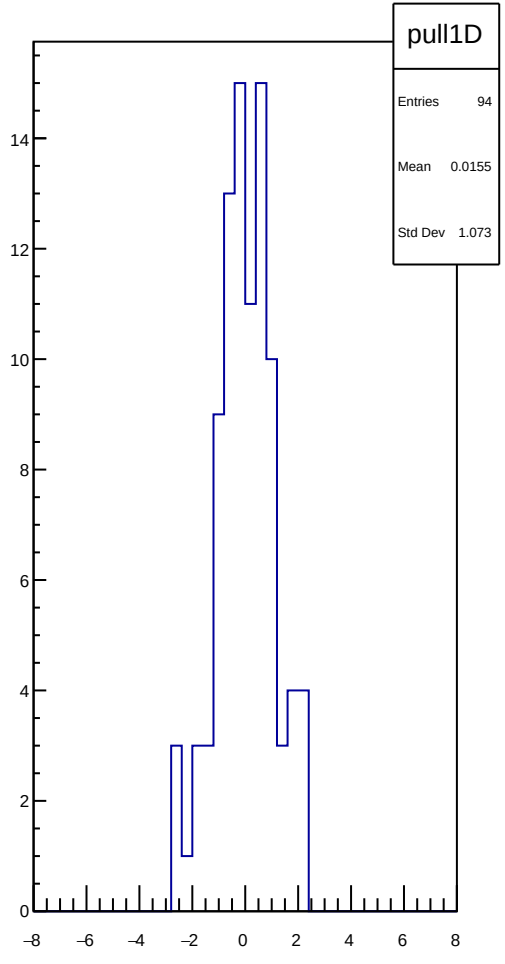

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2813 / 93
p0 225.6 ± 0.1685
240
230
220
210
200

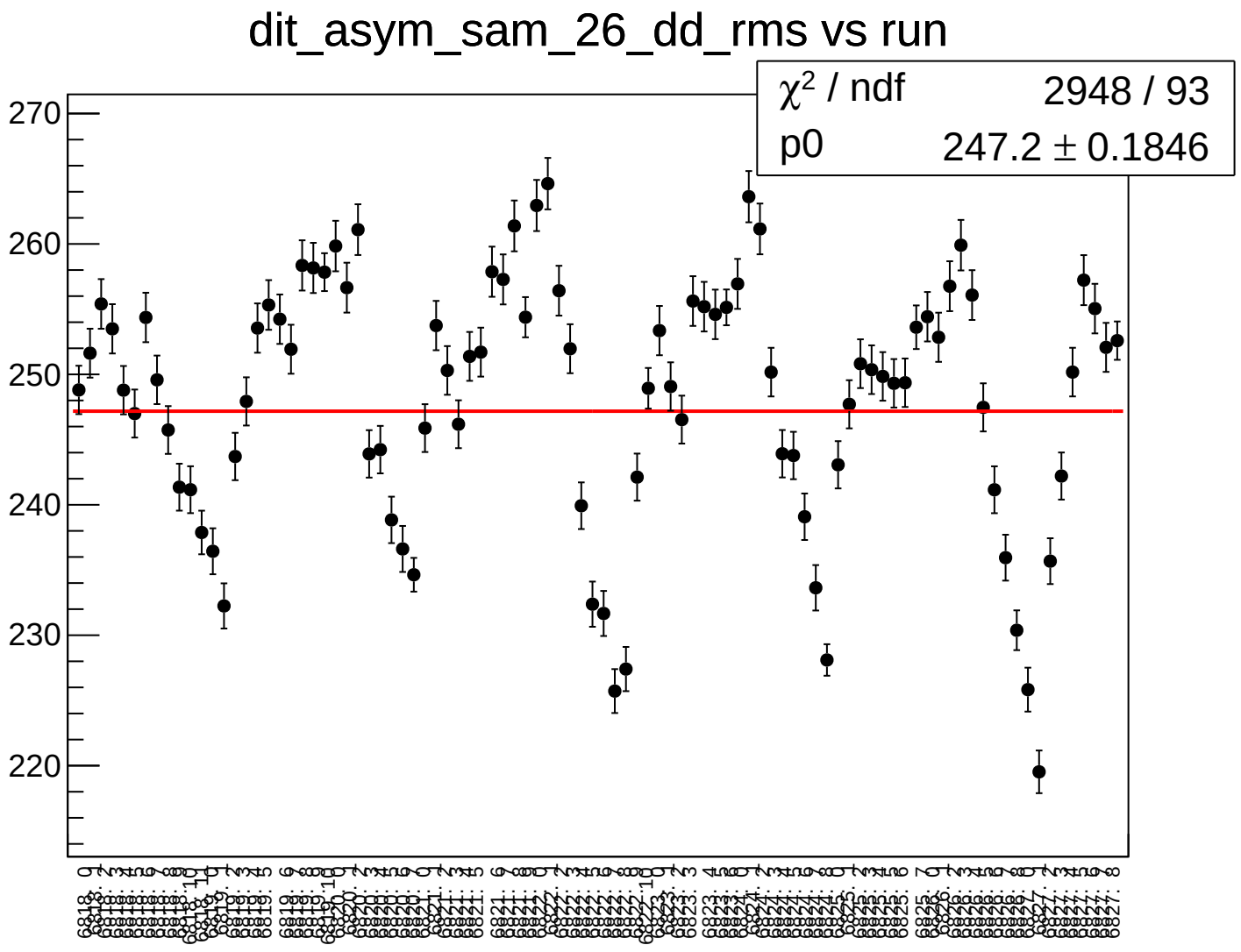

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.72 / 93
p0 −3543 ± 1763
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −328
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

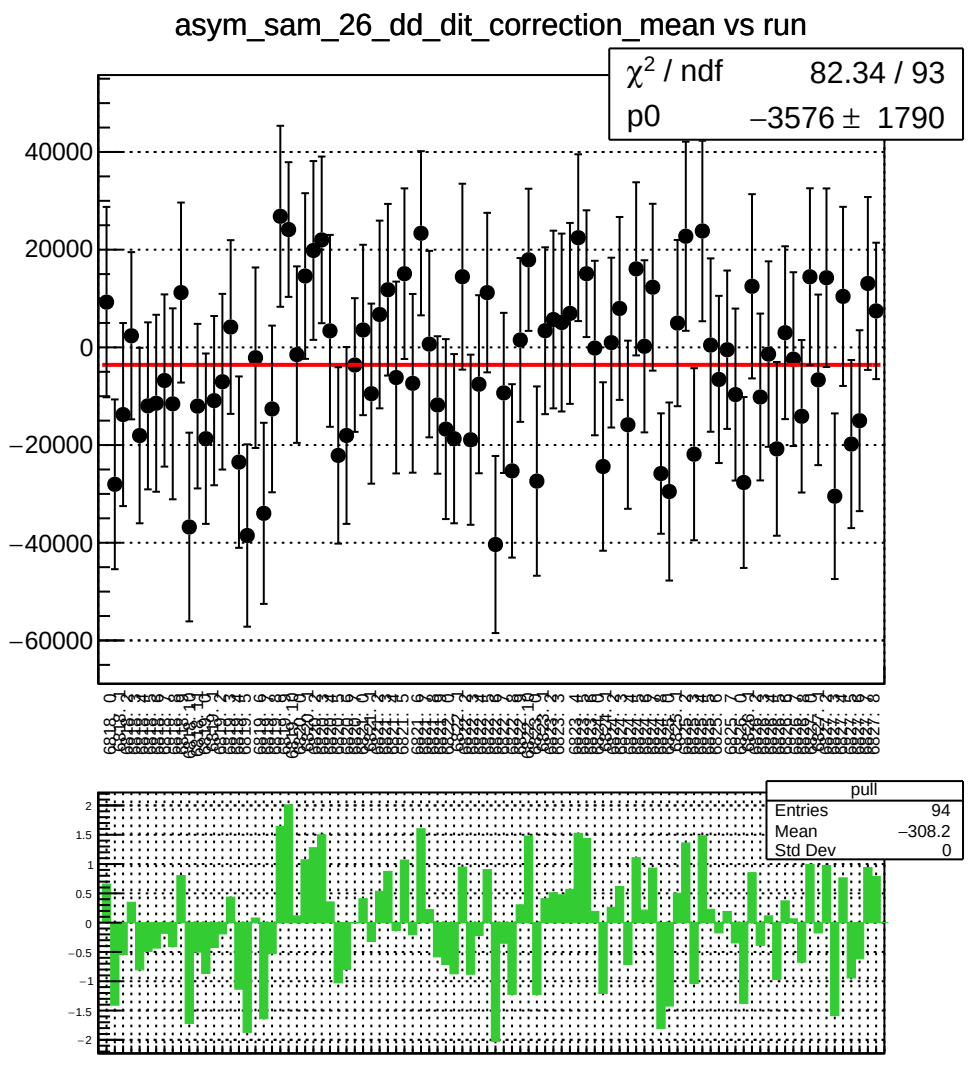

pull1D
Entries 94
Mean −0.006837
Std Dev 0.9266
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

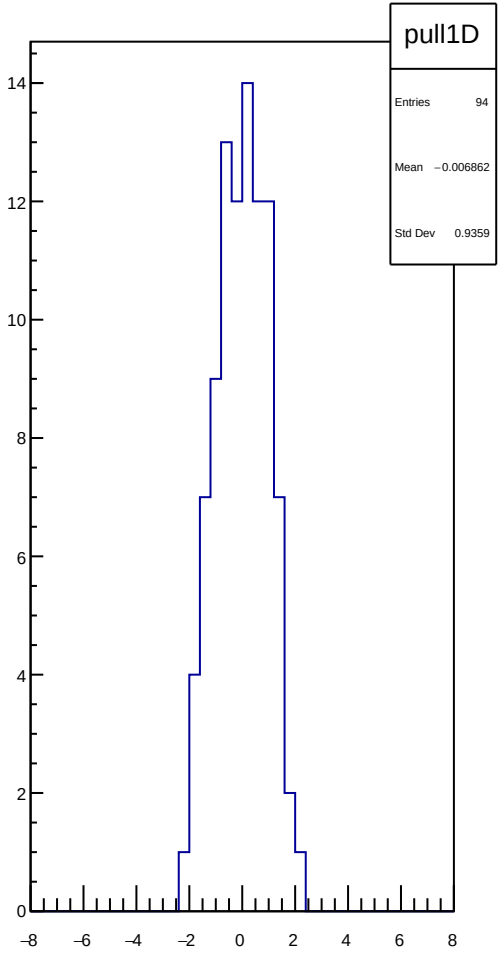

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 3296 / 93
p0 1668 ± 1.246
1850
1800
1750
1700
1650
1600
1550
1500

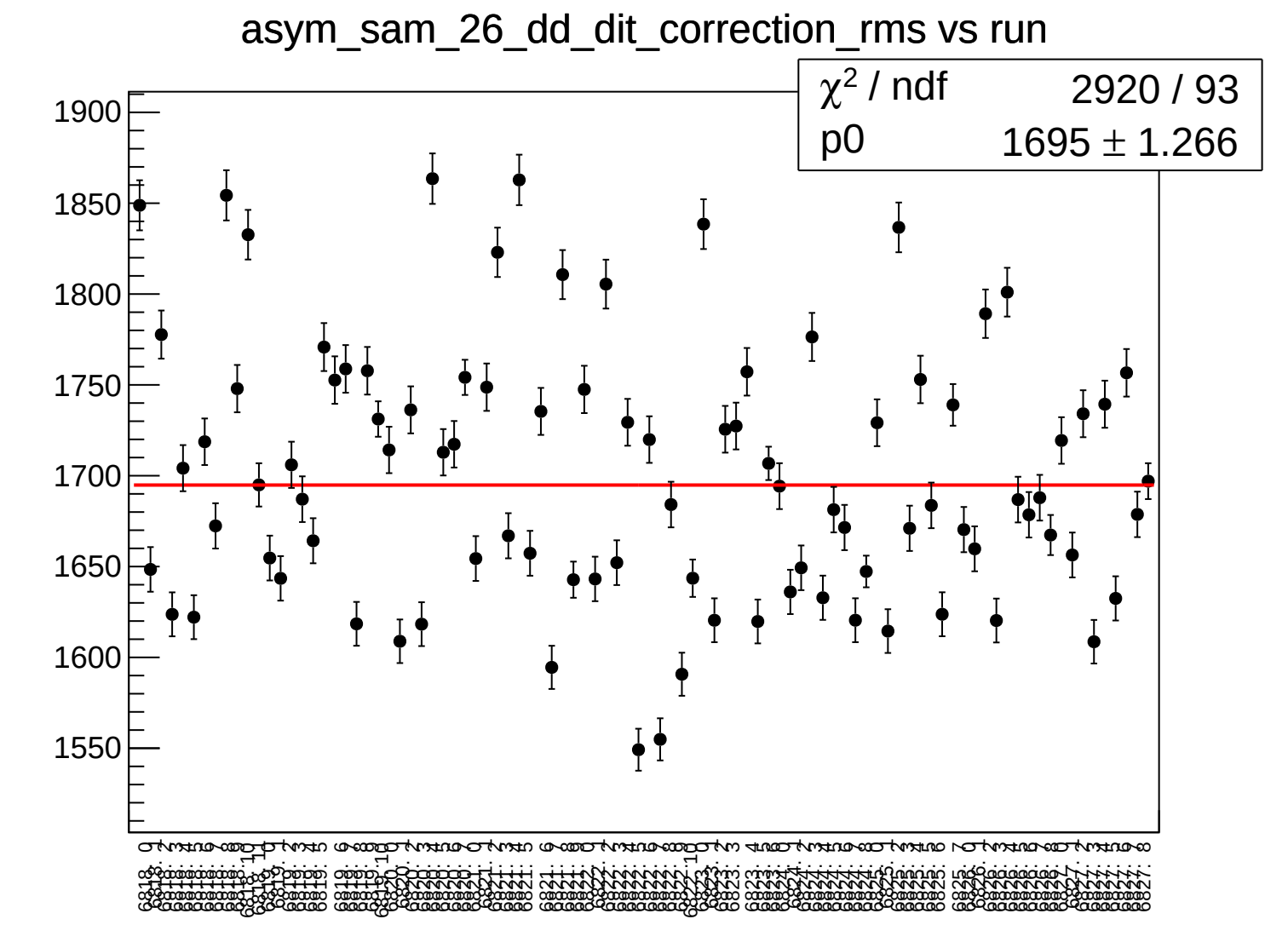

dit_asym_sam_26_dd_mean vs run
χ² / ndf 108.2 / 93
p0 429.6 ± 261.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 104.9
Std Dev 0
2
1
0
−1
−2

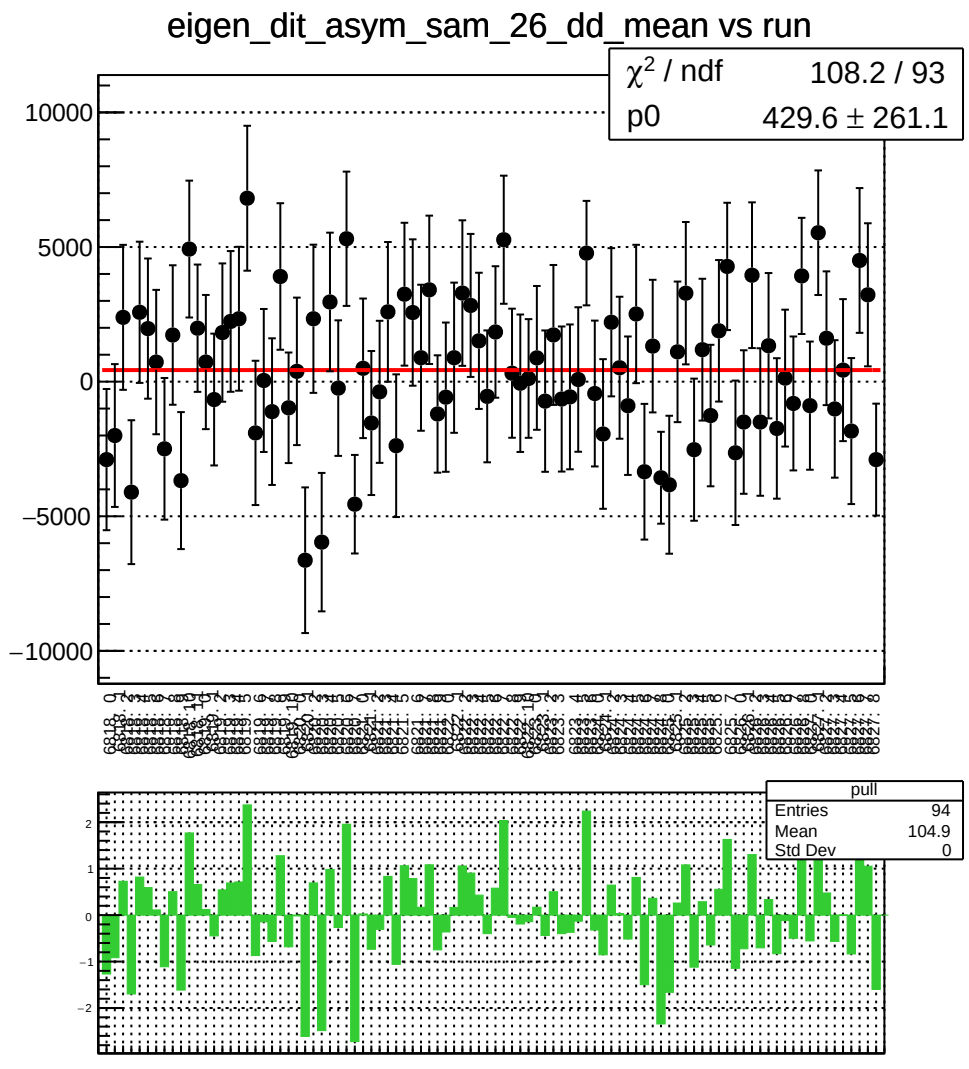

pull1D
Entries 94
Mean 0.0155
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

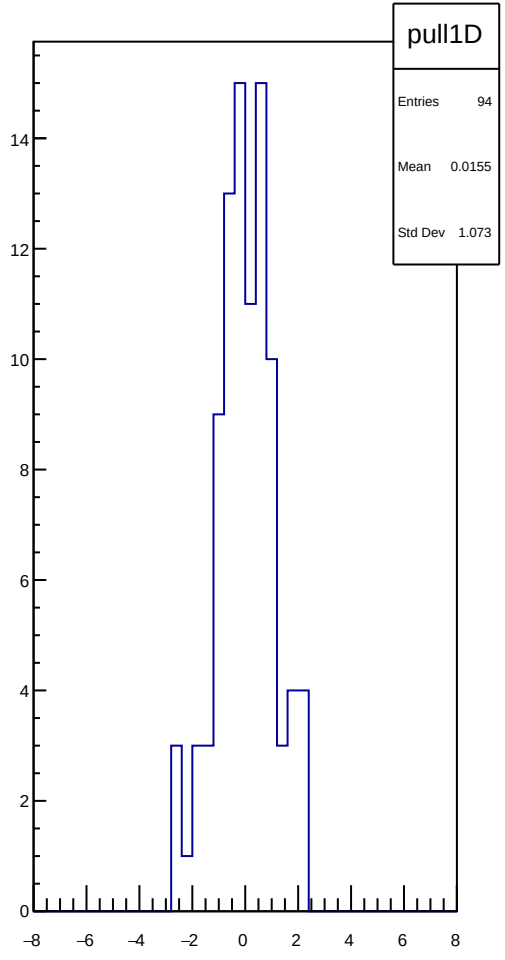

dit_asym_sam_26_dd_rms vs run
χ² / ndf 2948 / 93
p0 247.2 ± 0.1846
270
260
250
240
230
220

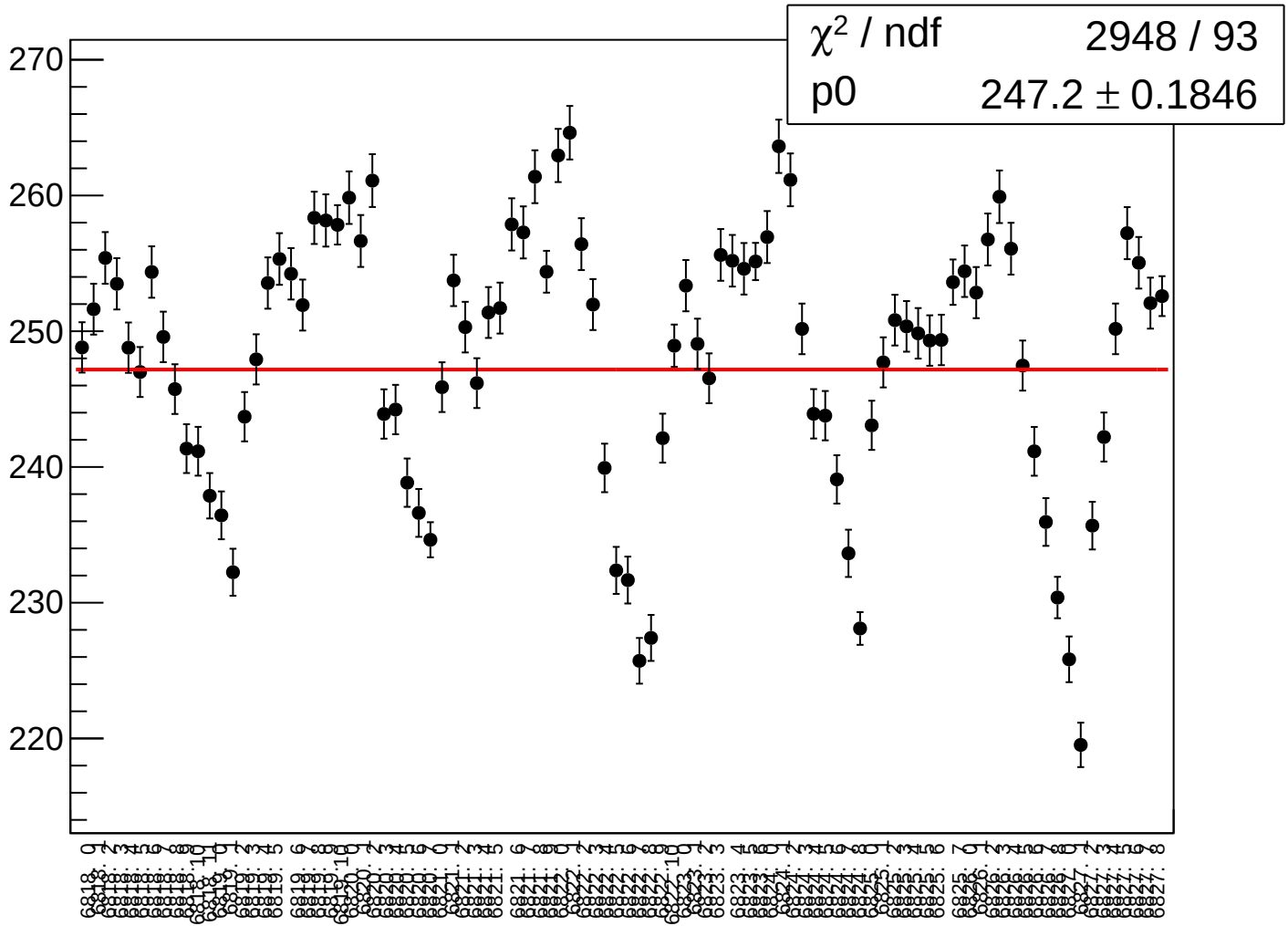

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 82.34 / 93
p0 −3576 ± 1790
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −308.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

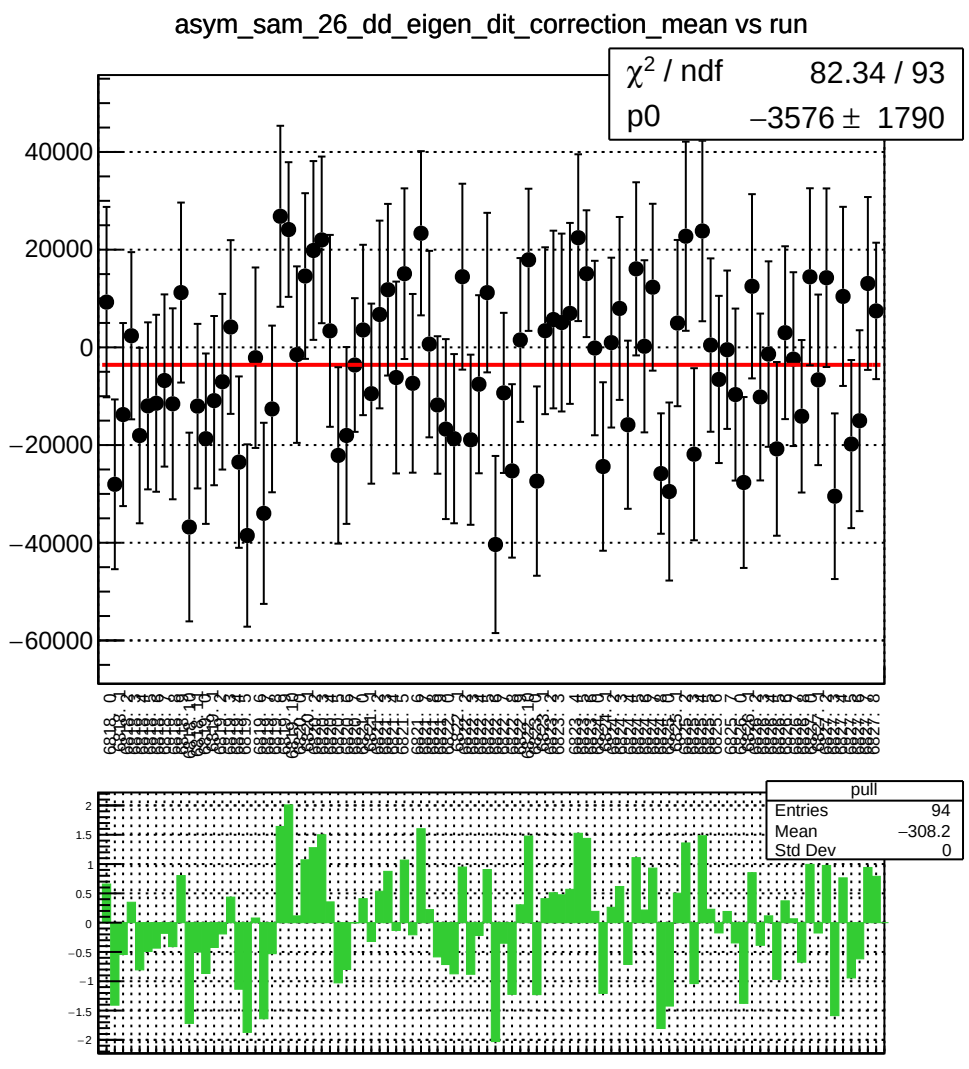

pull1D
Entries 94
Mean −0.006862
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

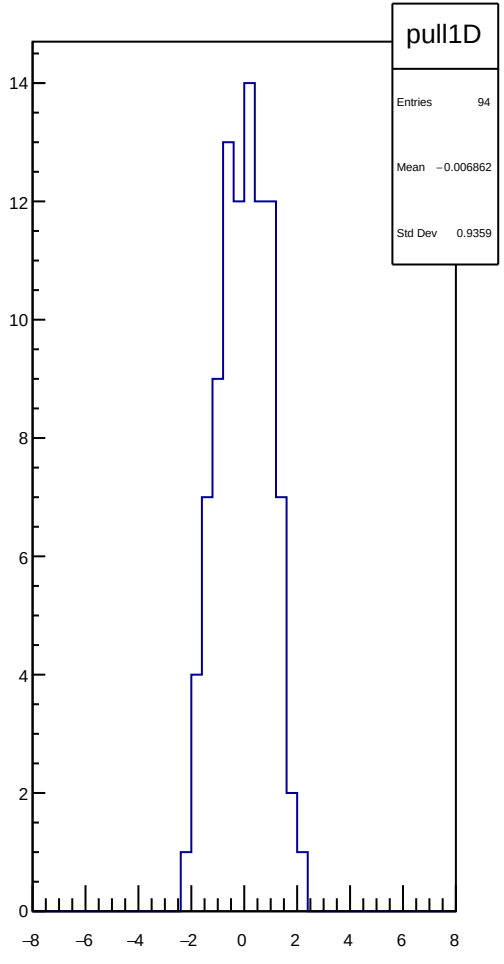

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 2920 / 93
p0 1695 ± 1.266
1900
1850
1800
1750
1700
1650
1600
1550

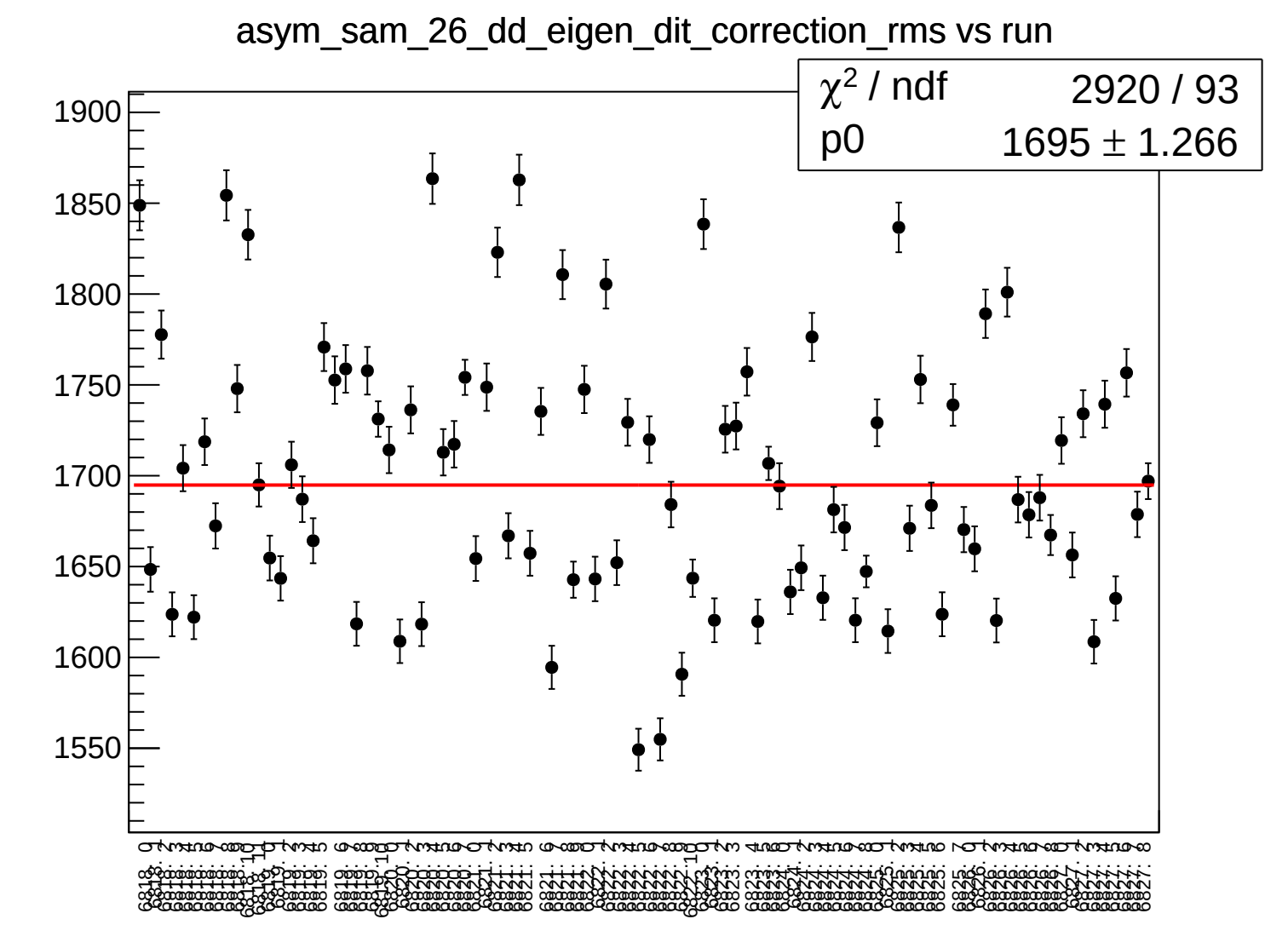

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 108.2 / 93
p0 429.6 ± 261.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 104.9
Std Dev 0
2
1
0
−1
−2

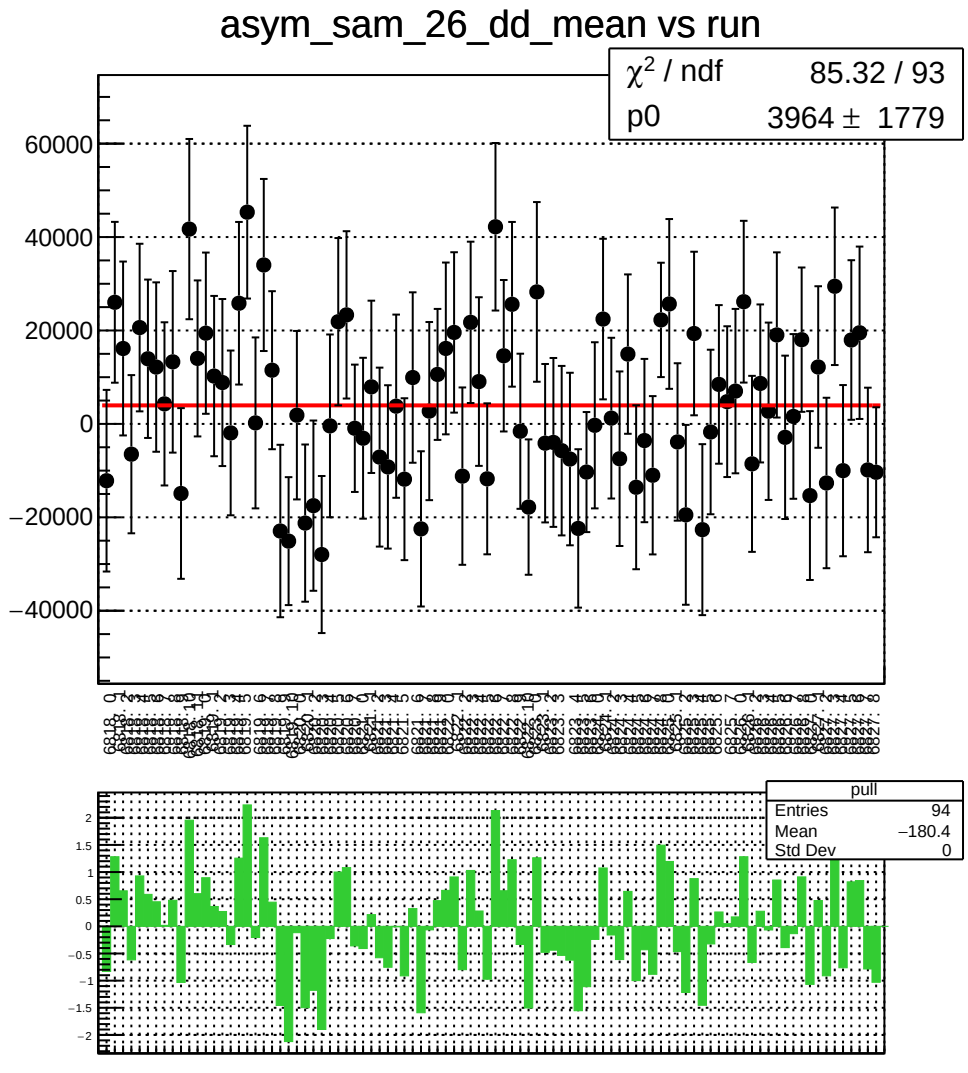

pull1D
Entries 94
Mean 0.0155
Std Dev 1.073
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

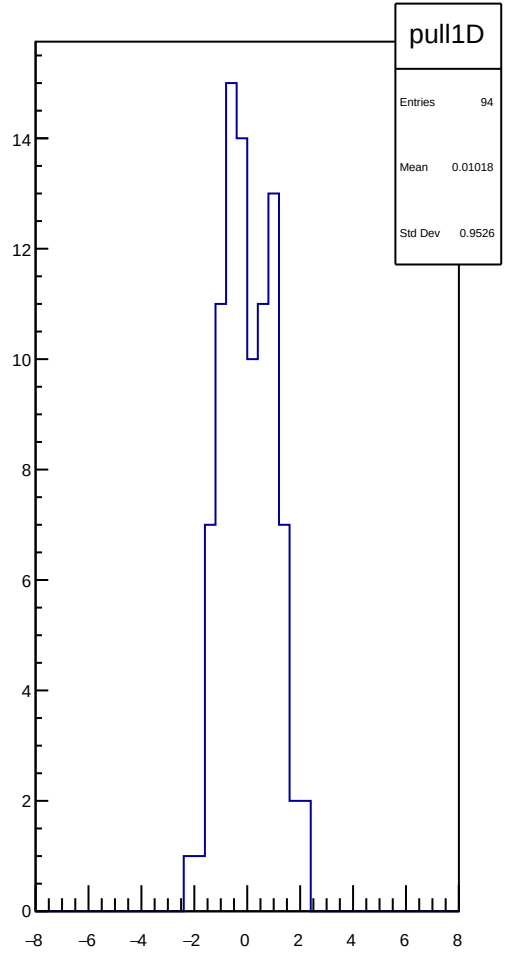

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 2948 / 93
p0 247.2 ± 0.1846
270
260
250
240
230
220

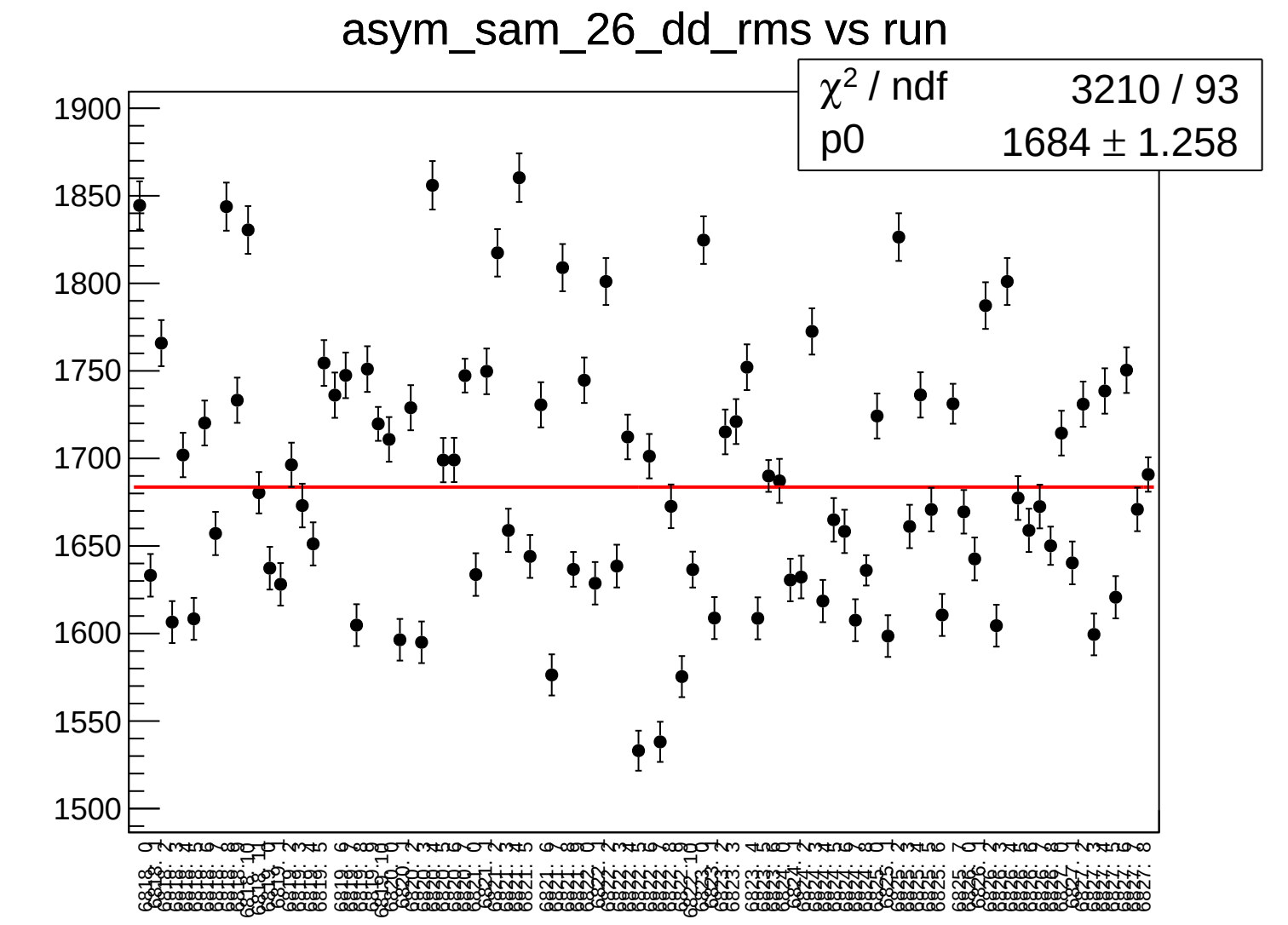

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.34 / 93
p0 −3576 ± 1790
40000
20000
0
−20000
−40000
−60000
pull
Entries 94
Mean −308.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

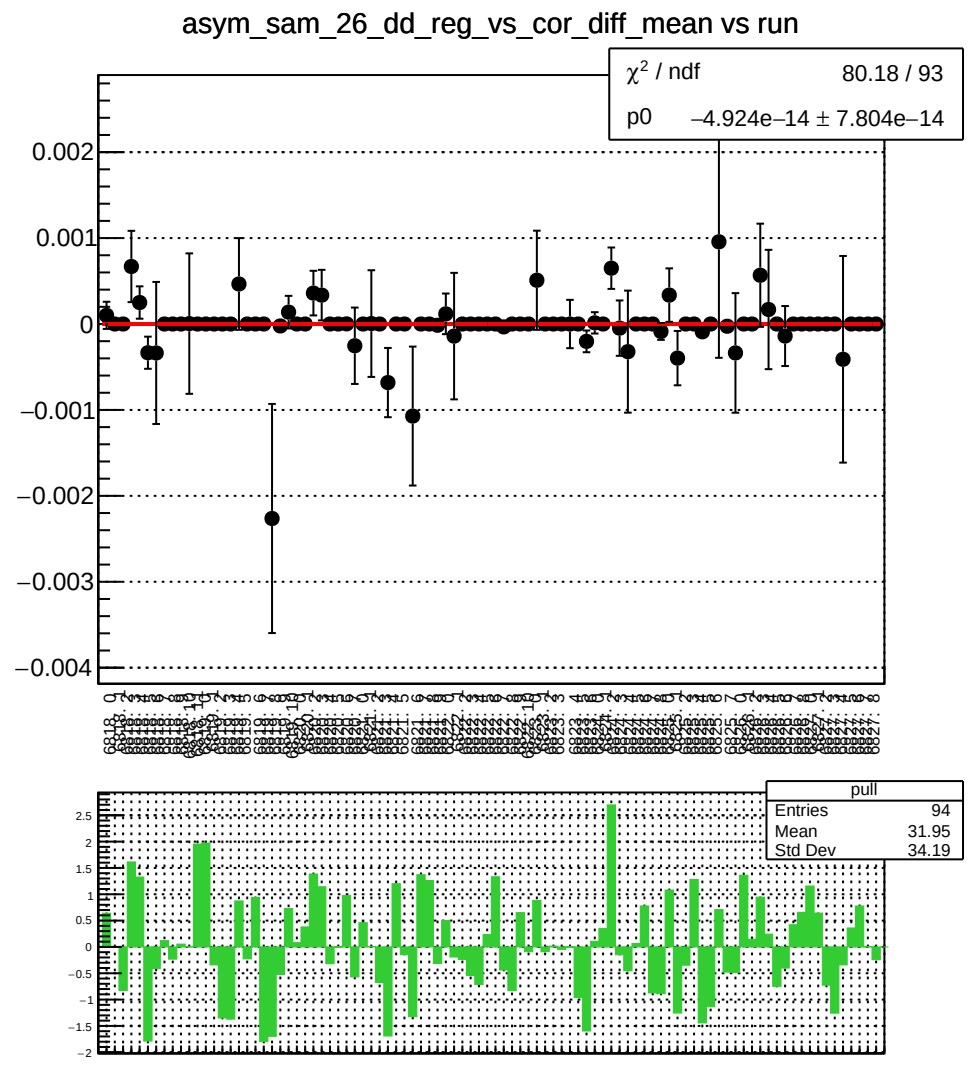

pull1D
Entries 94
Mean −0.006862
Std Dev 0.9359
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

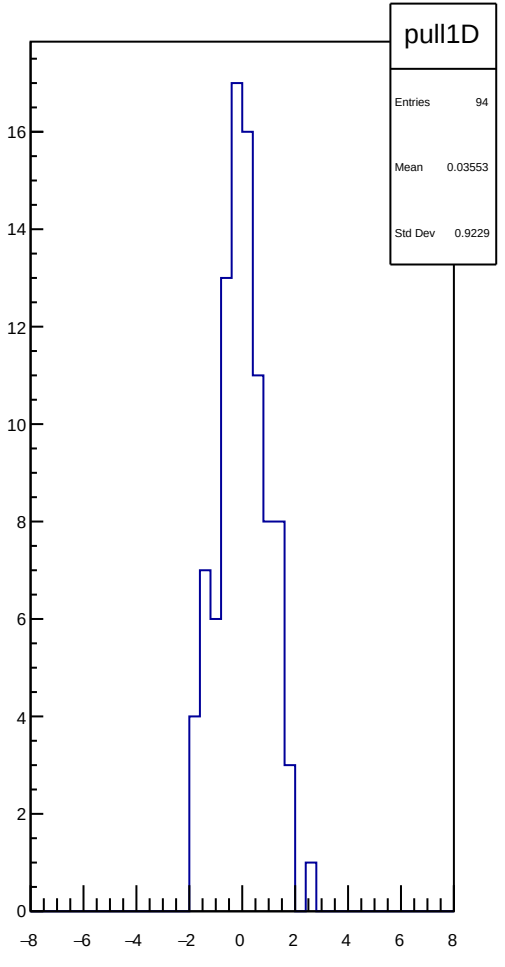

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2920 / 93
p0 1695 ± 1.266
1900
1850
1800
1750
1700
1650
1600
1550

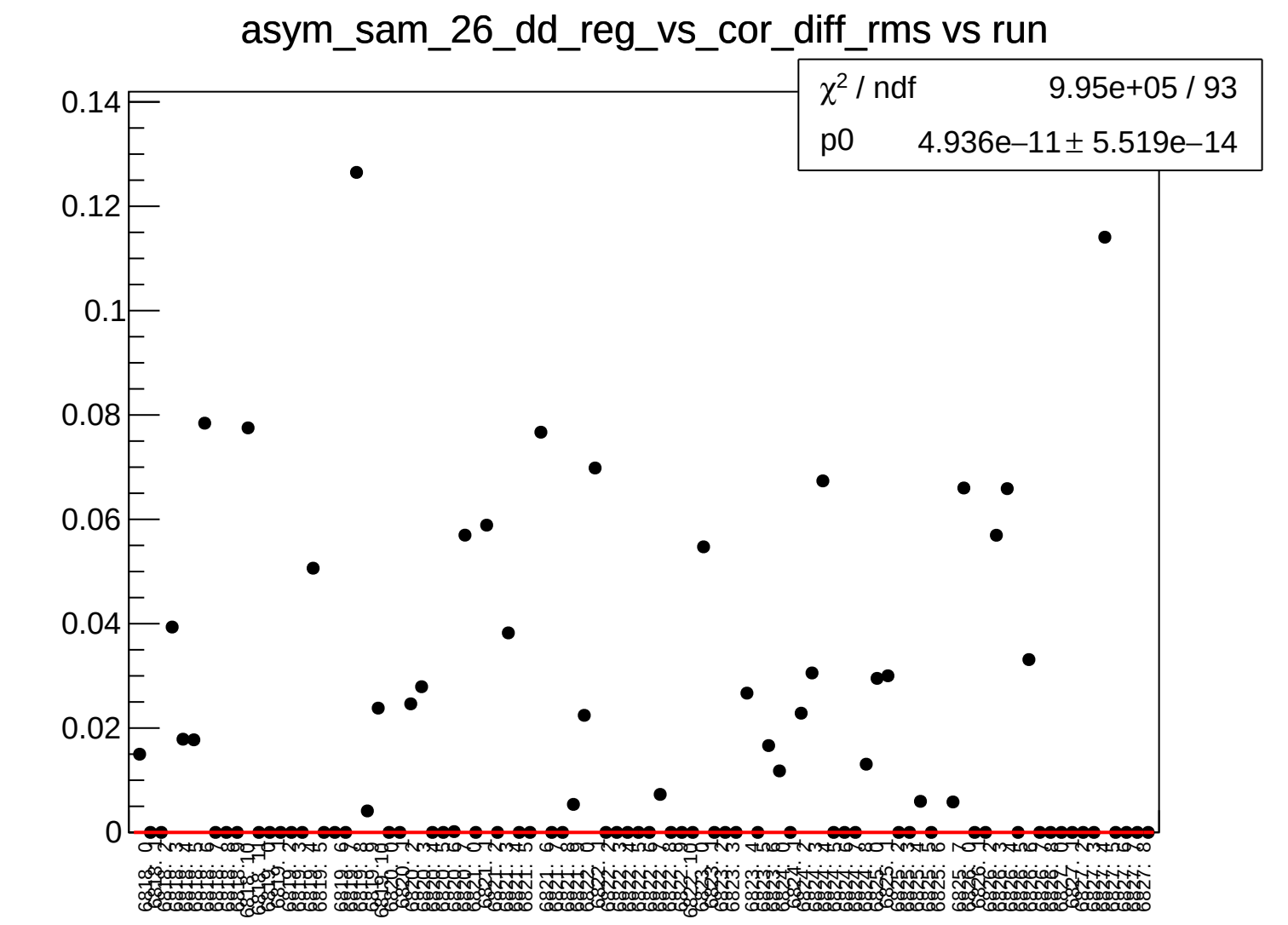

asym_sam_26_dd_mean vs run
χ² / ndf 85.32 / 93
p0 3964 ± 1779
60000
40000
20000
0
−20000
−40000
pull
Entries 94
Mean −180.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

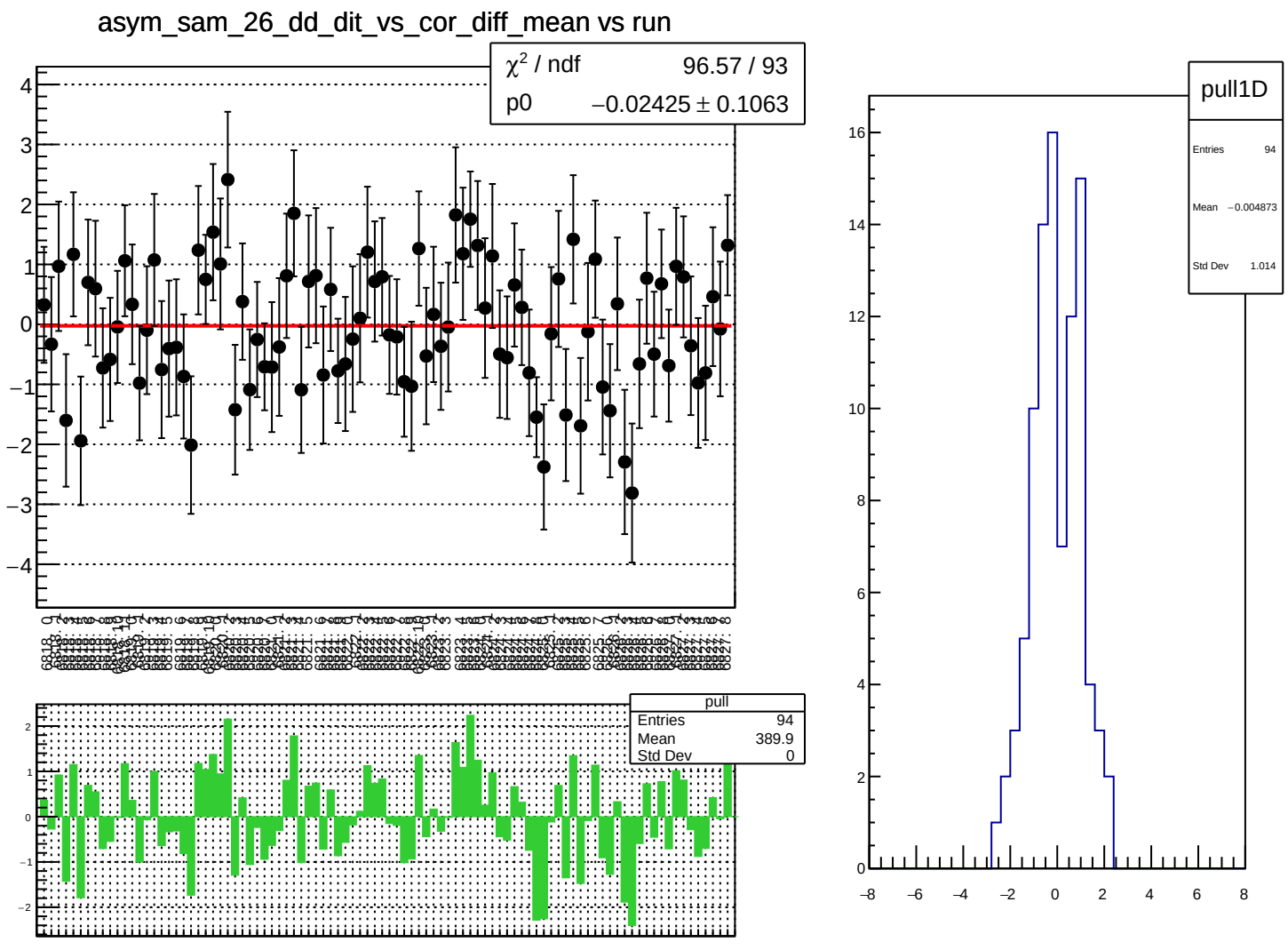

pull1D
Entries 94
Mean 0.01018
Std Dev 0.9526
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

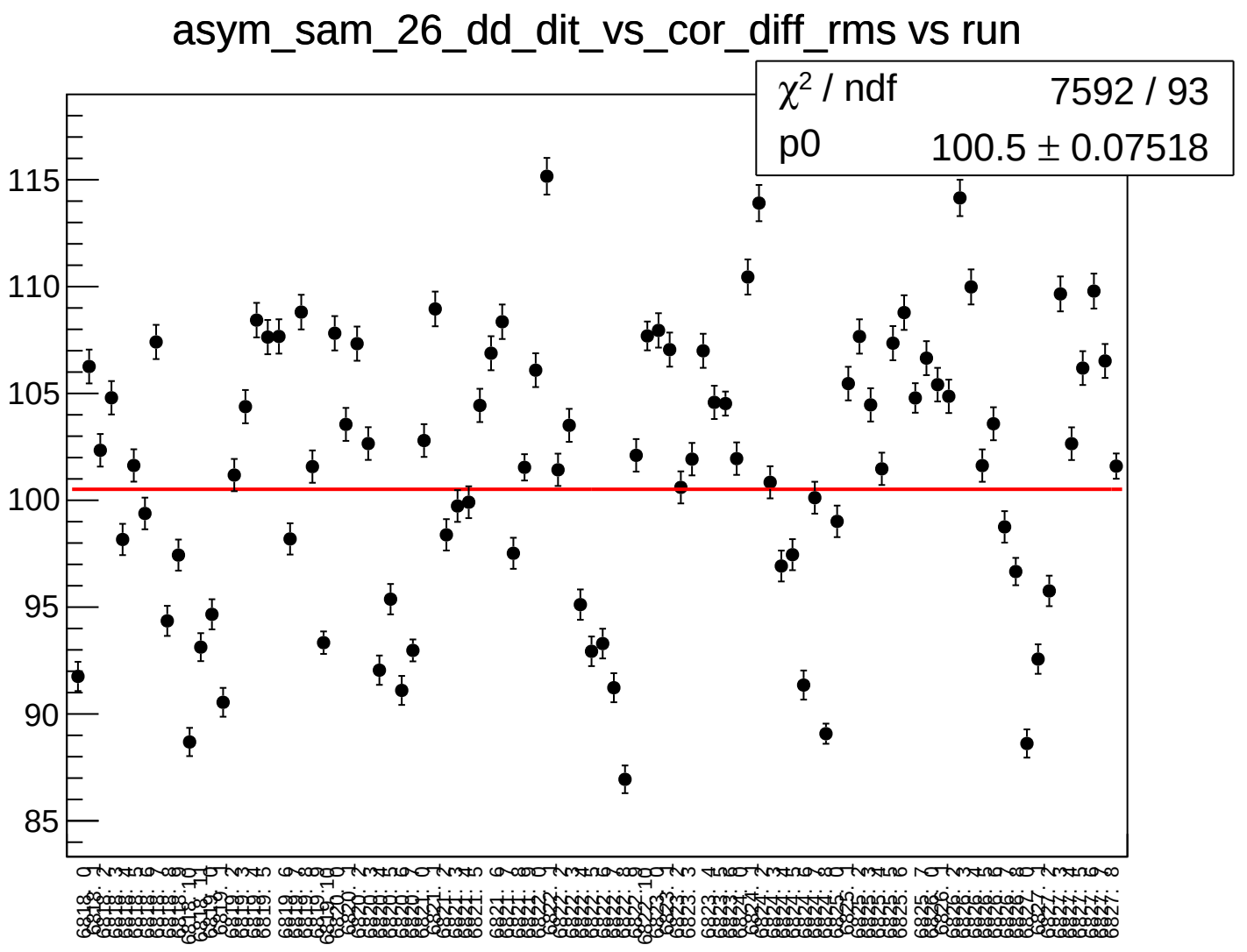

asym_sam_26_dd_rms vs run
χ² / ndf 3210 / 93
p0 1684 ± 1.258
1900
1850
1800
1750
1700
1650
1600
1550
1500

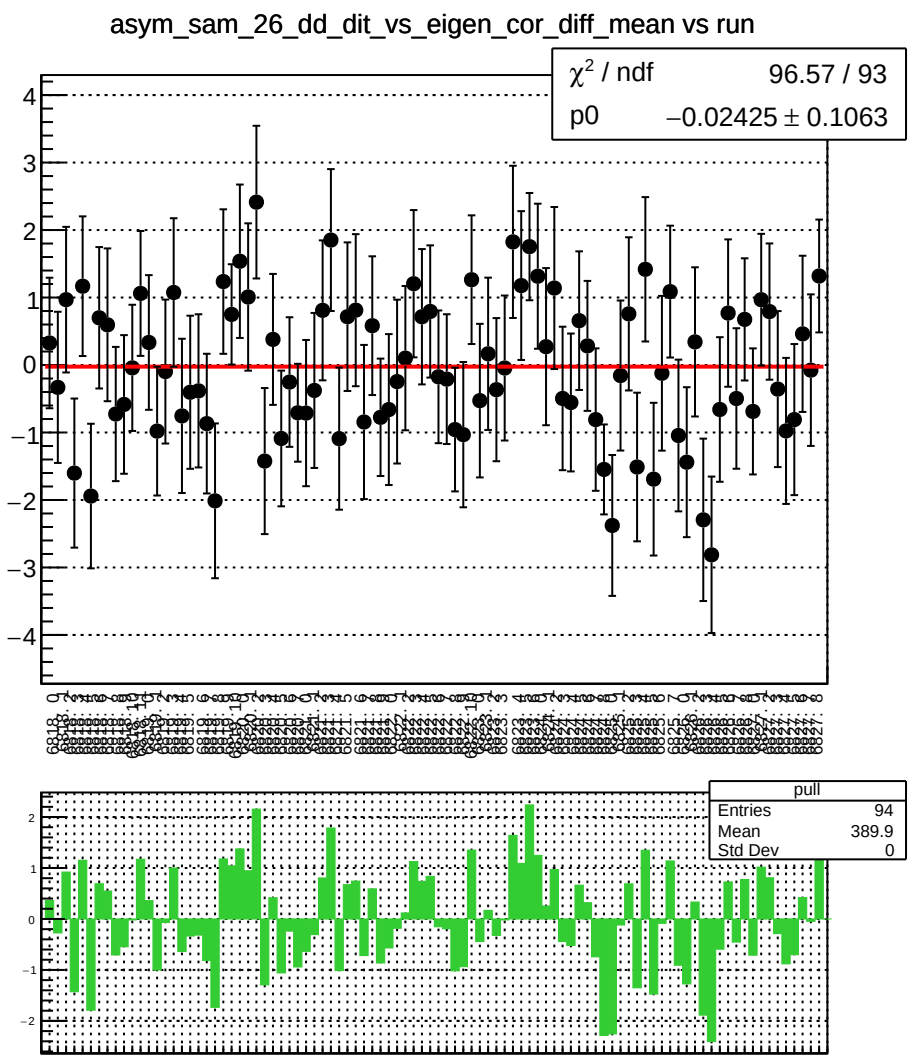

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.18 / 93
p0 −4.924e−14 ± 7.804e−14
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 94
Mean 31.95
Std Dev 34.19
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

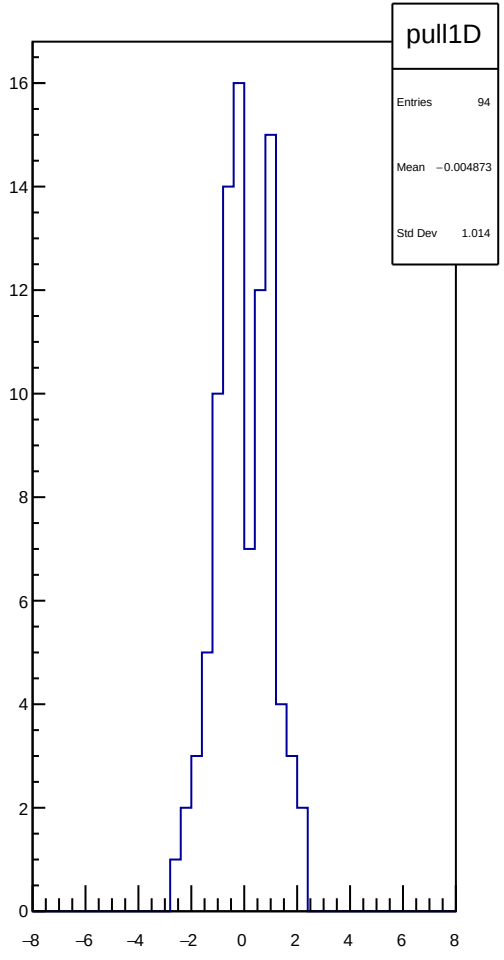

pull1D
Entries 94
Mean 0.03553
Std Dev 0.9229
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

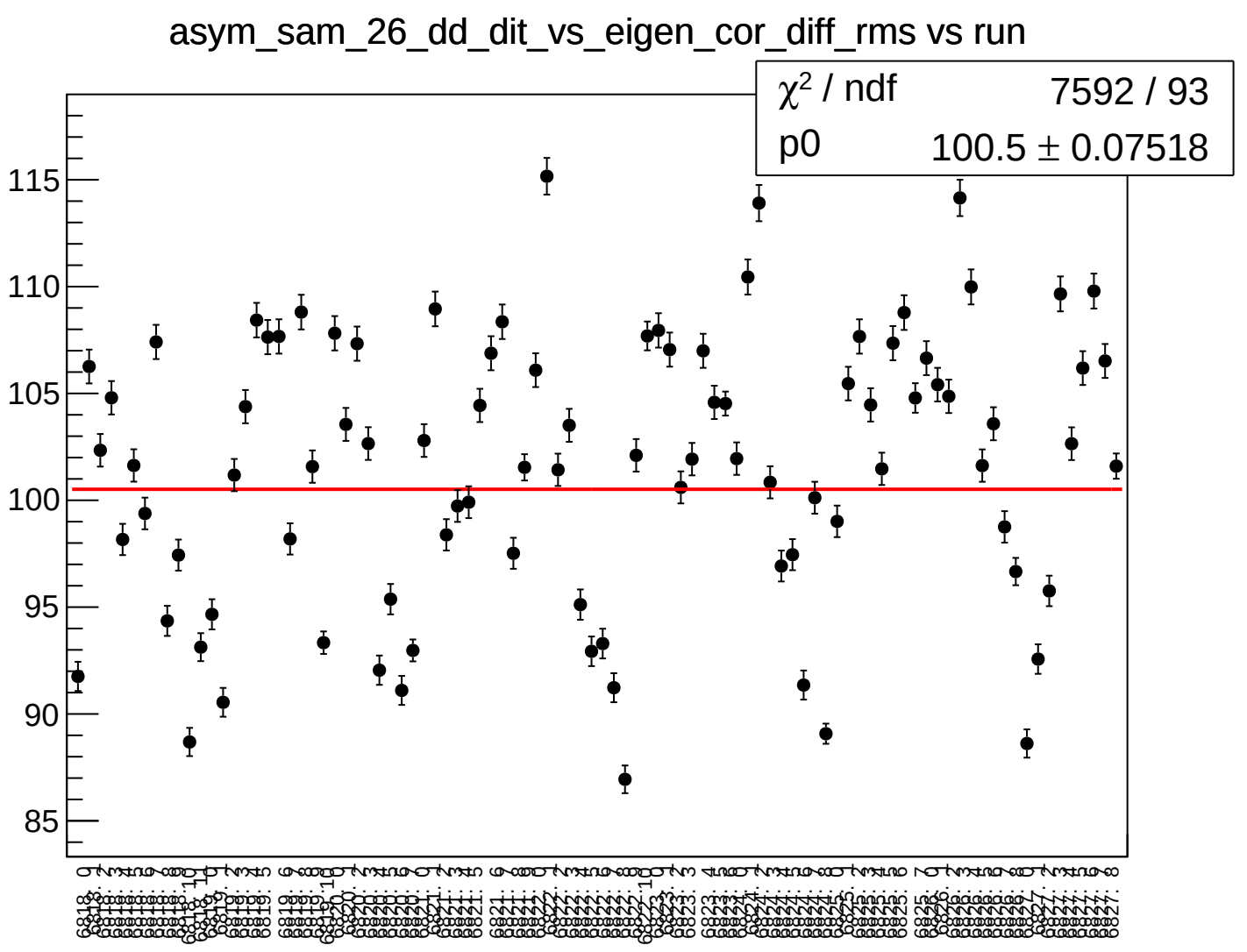

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.95e+05 / 93
p0 4.936e−11 ± 5.519e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

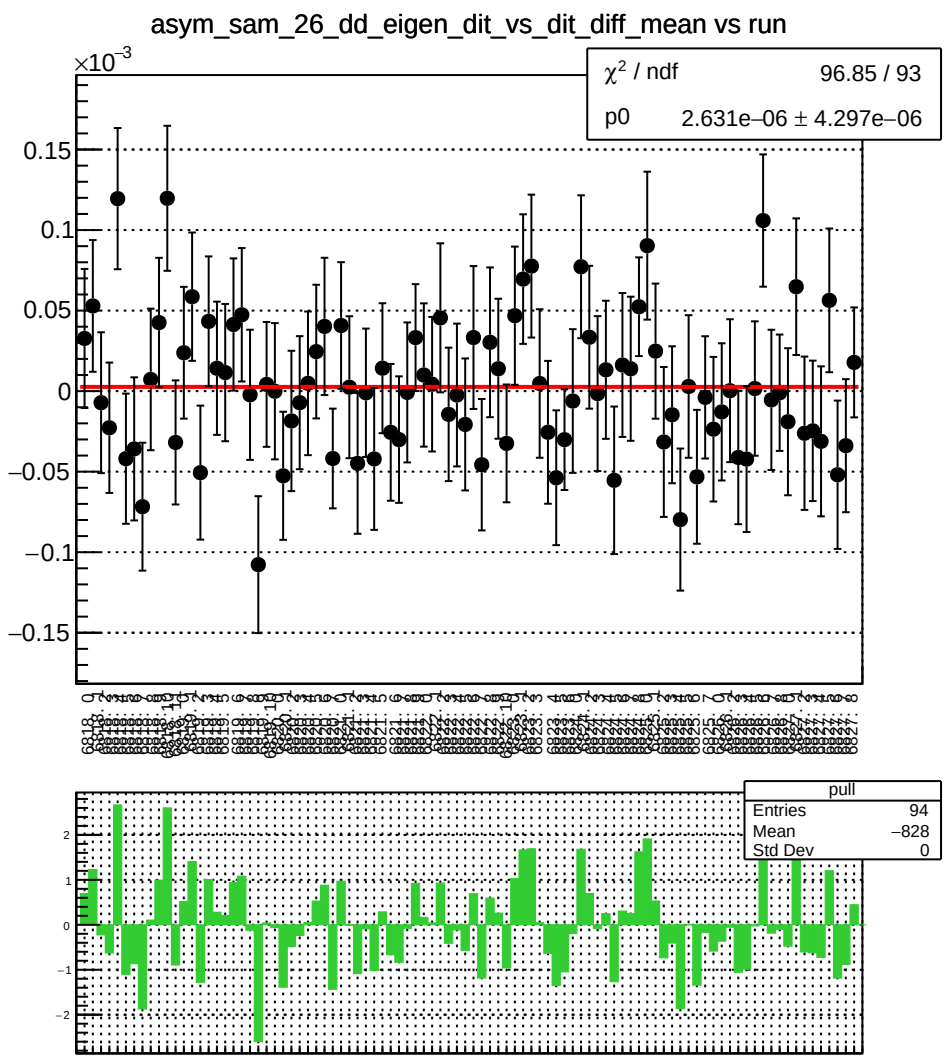

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 96.57 / 93
p0 −0.02425 ± 0.1063
pull
Entries 94
Mean 389.9
Std Dev 0
pull1D
Entries 94
Mean −0.004873
Std Dev 1.014

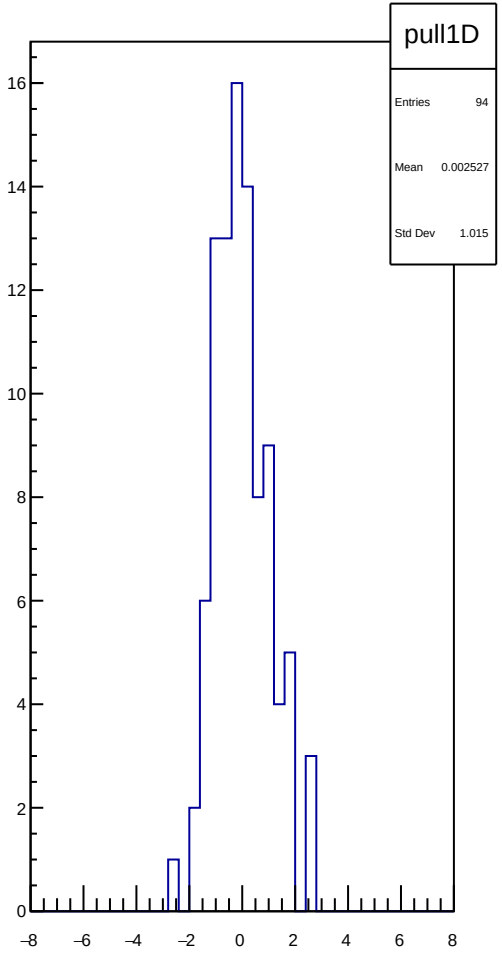

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7592 / 93
p0 100.5 ± 0.07518
115
110
105
100
95
90
85

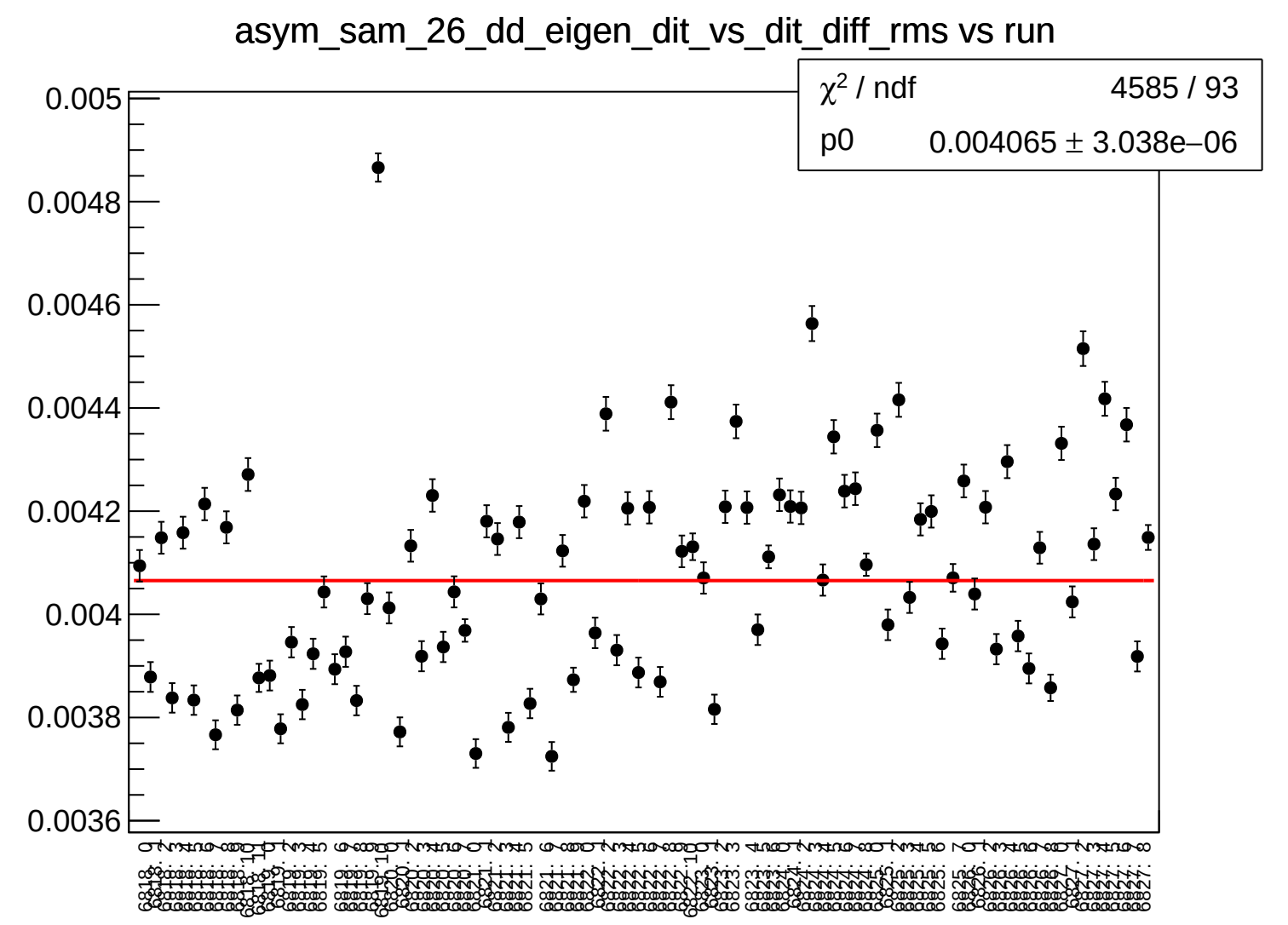

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.57 / 93
p0 −0.02425 ± 0.1063
pull
Entries 94
Mean 389.9
Std Dev 0

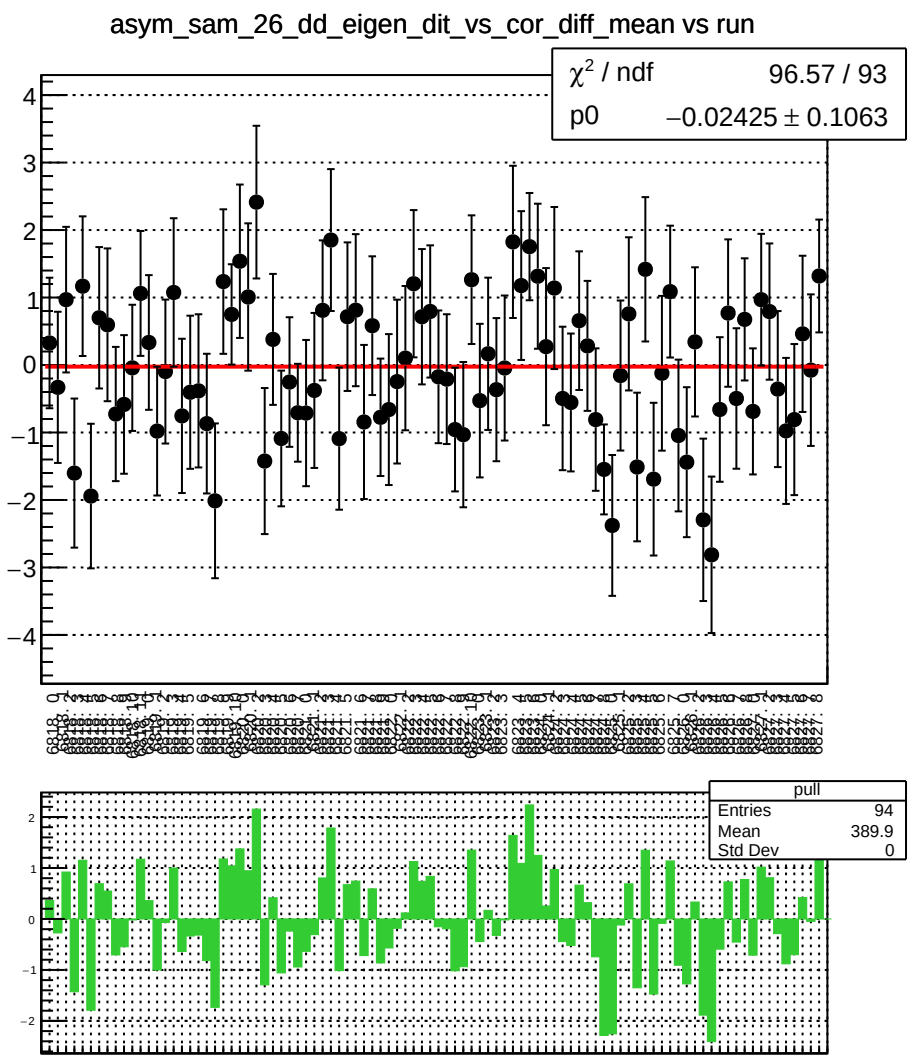

pull1D
Entries 94
Mean −0.004873
Std Dev 1.014

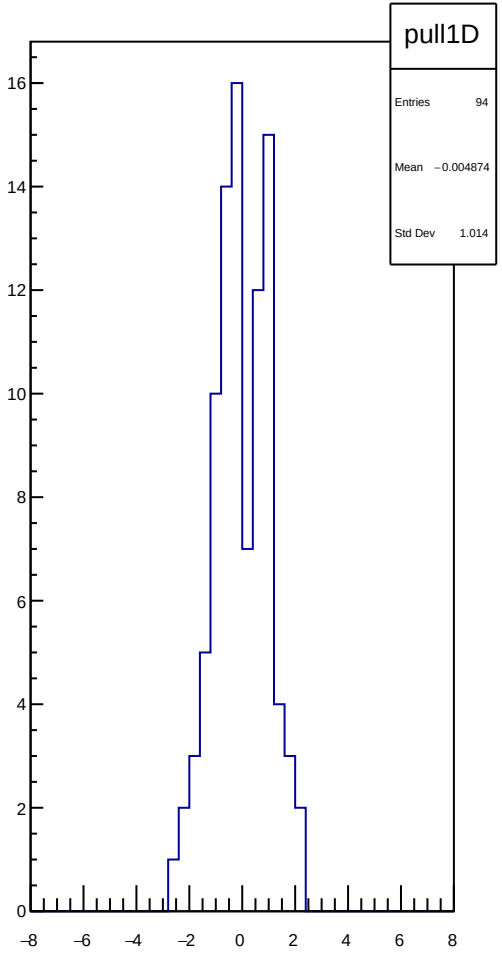

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7592 / 93
p0 100.5 ± 0.07518
115
110
105
100
95
90
85

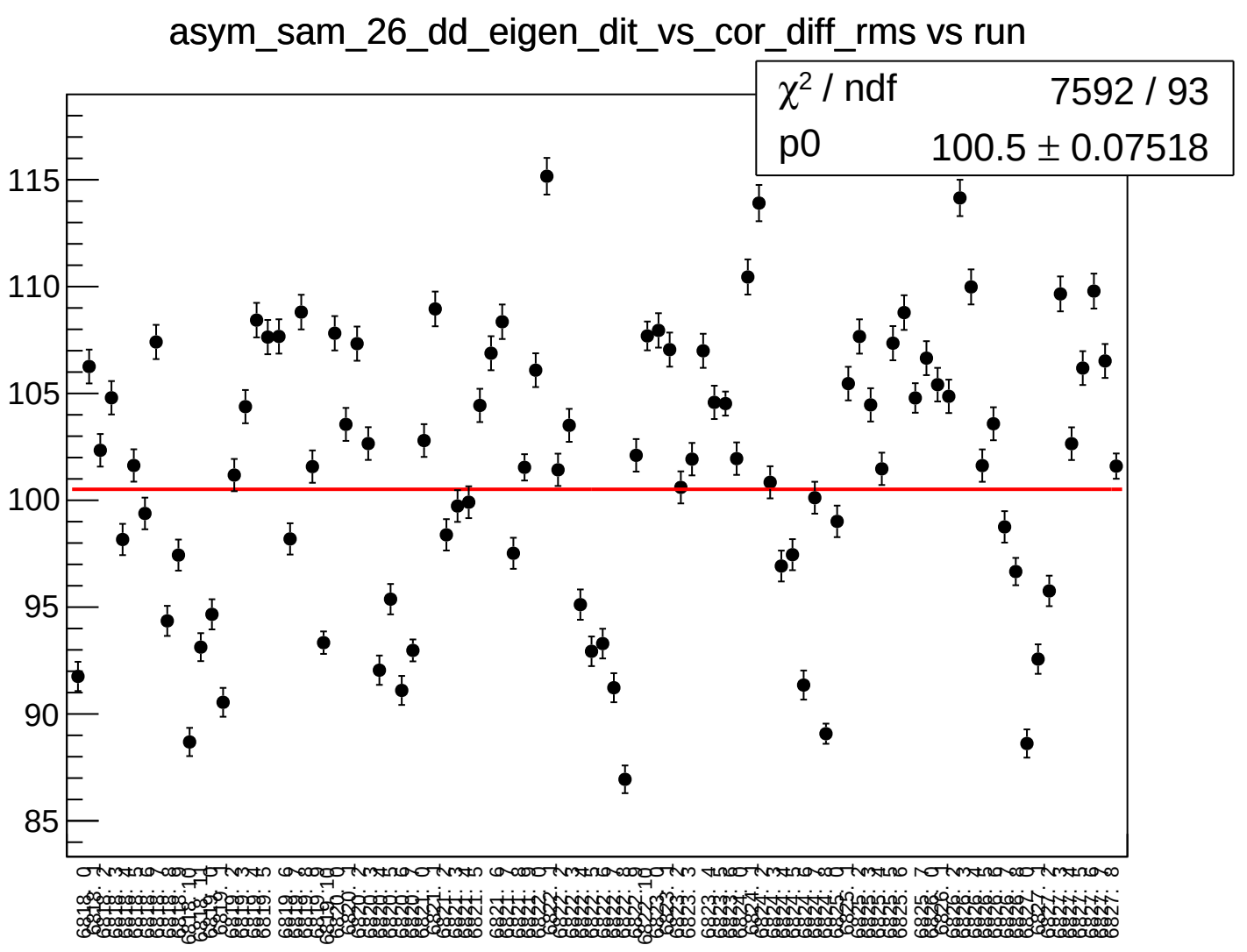

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.85 / 93
p0 2.631e−06 ± 4.297e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −828
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 94
Mean 0.002527
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

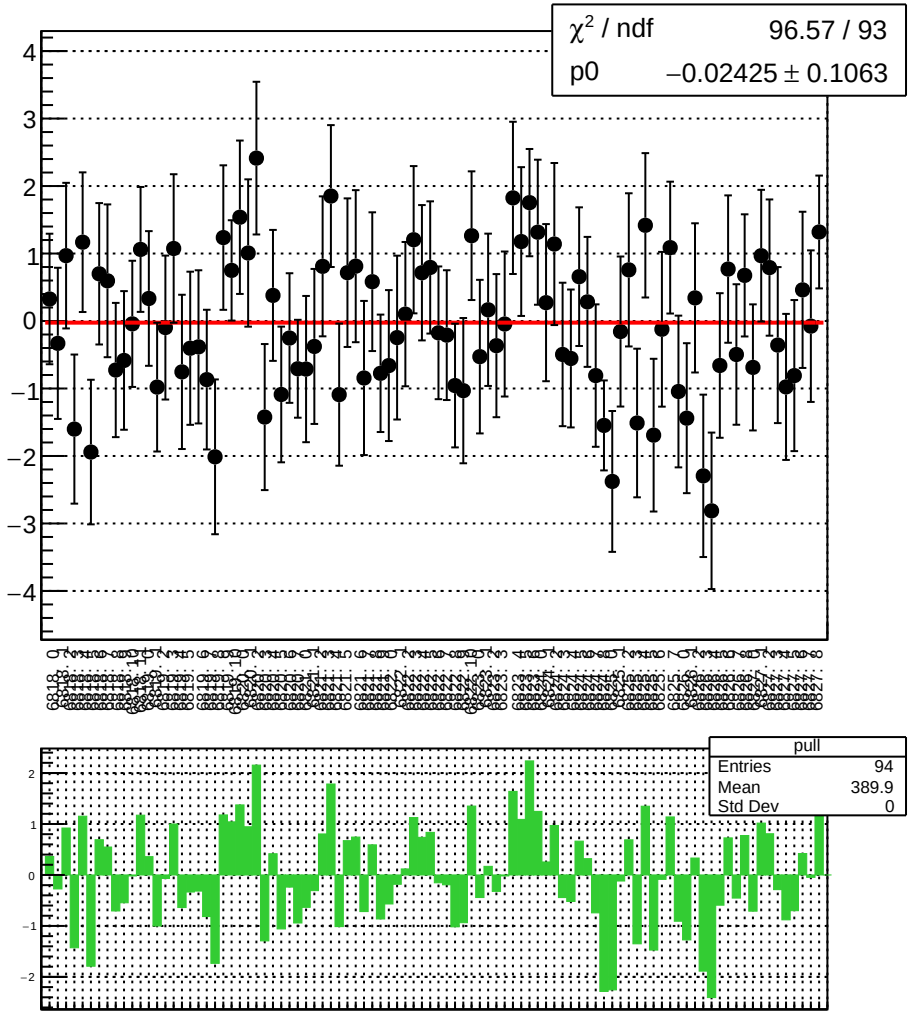

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4585 / 93
p0 0.004065 ± 3.038e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

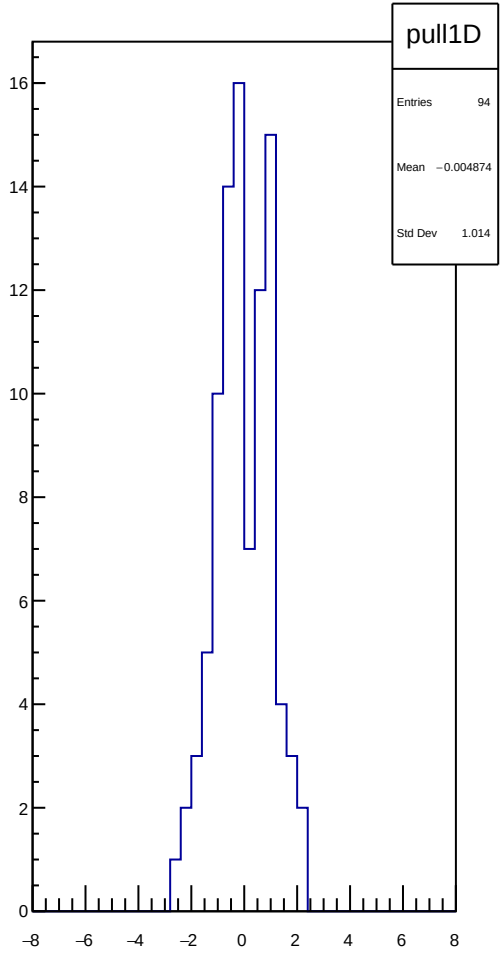

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.57 / 93
p0 −0.02425 ± 0.1063
pull
Entries 94
Mean 389.9
Std Dev 0

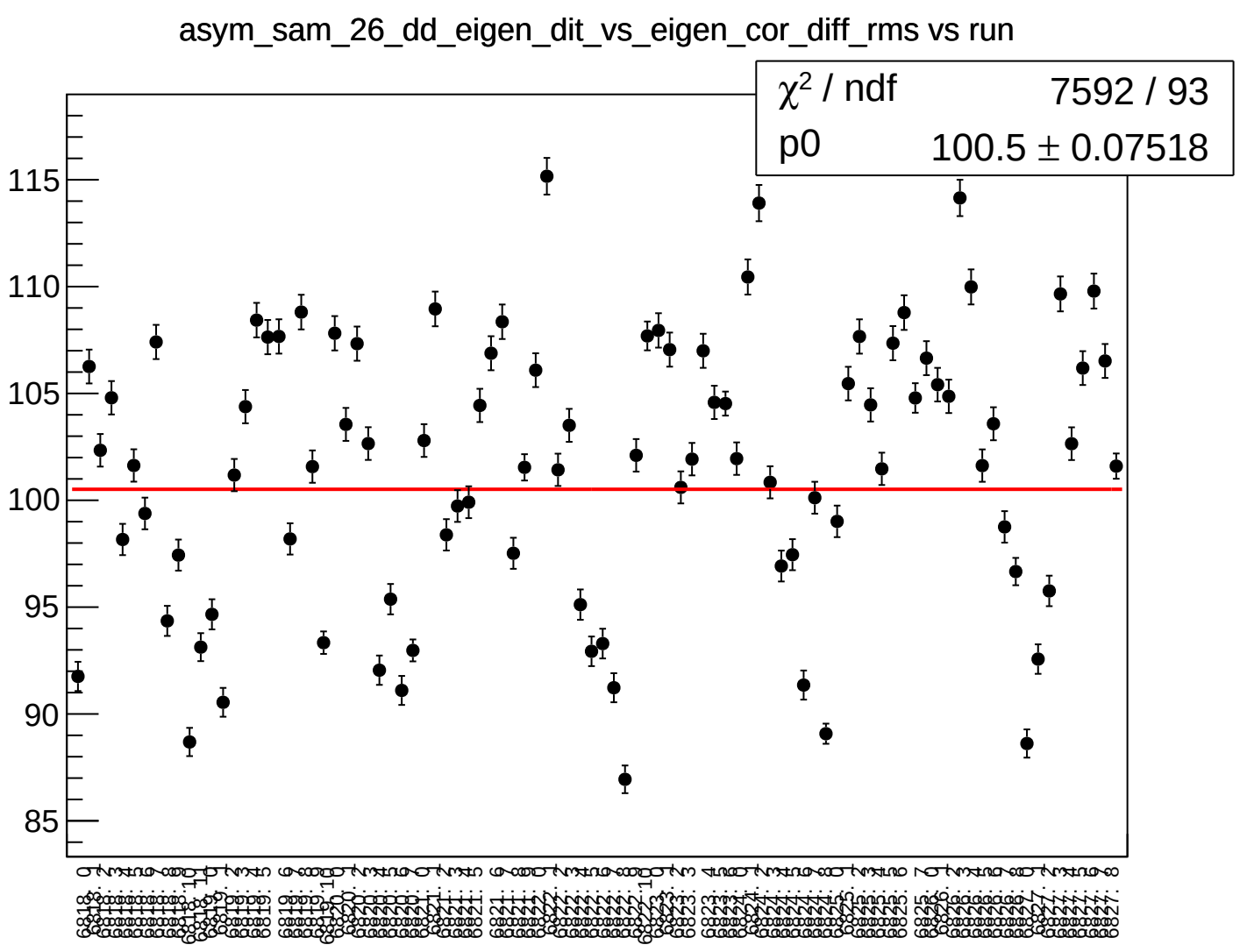

pull1D
Entries 94
Mean −0.004874
Std Dev 1.014

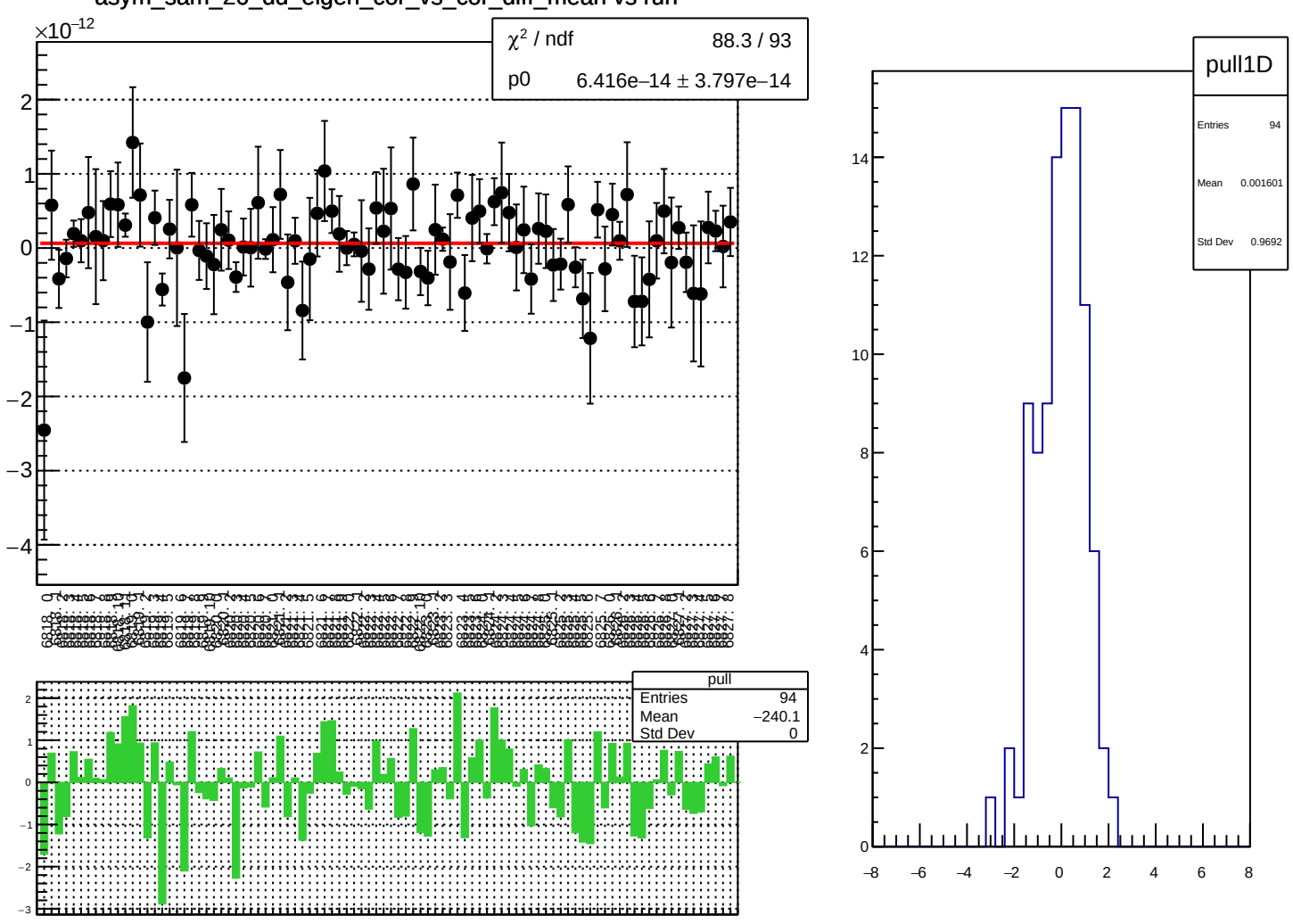

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7592 / 93
p0 100.5 ± 0.07518
115
110
105
100
95
90
85

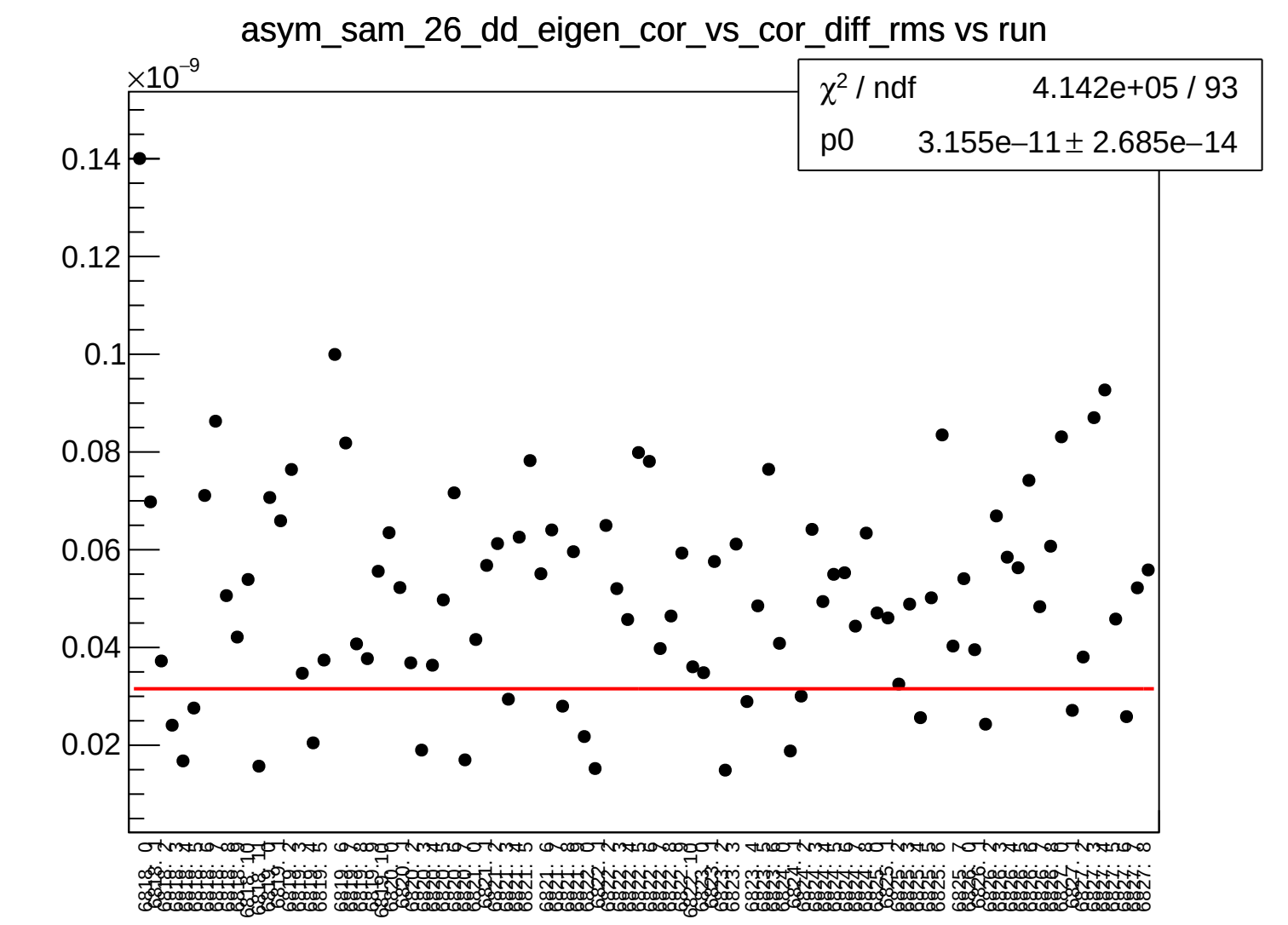
asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

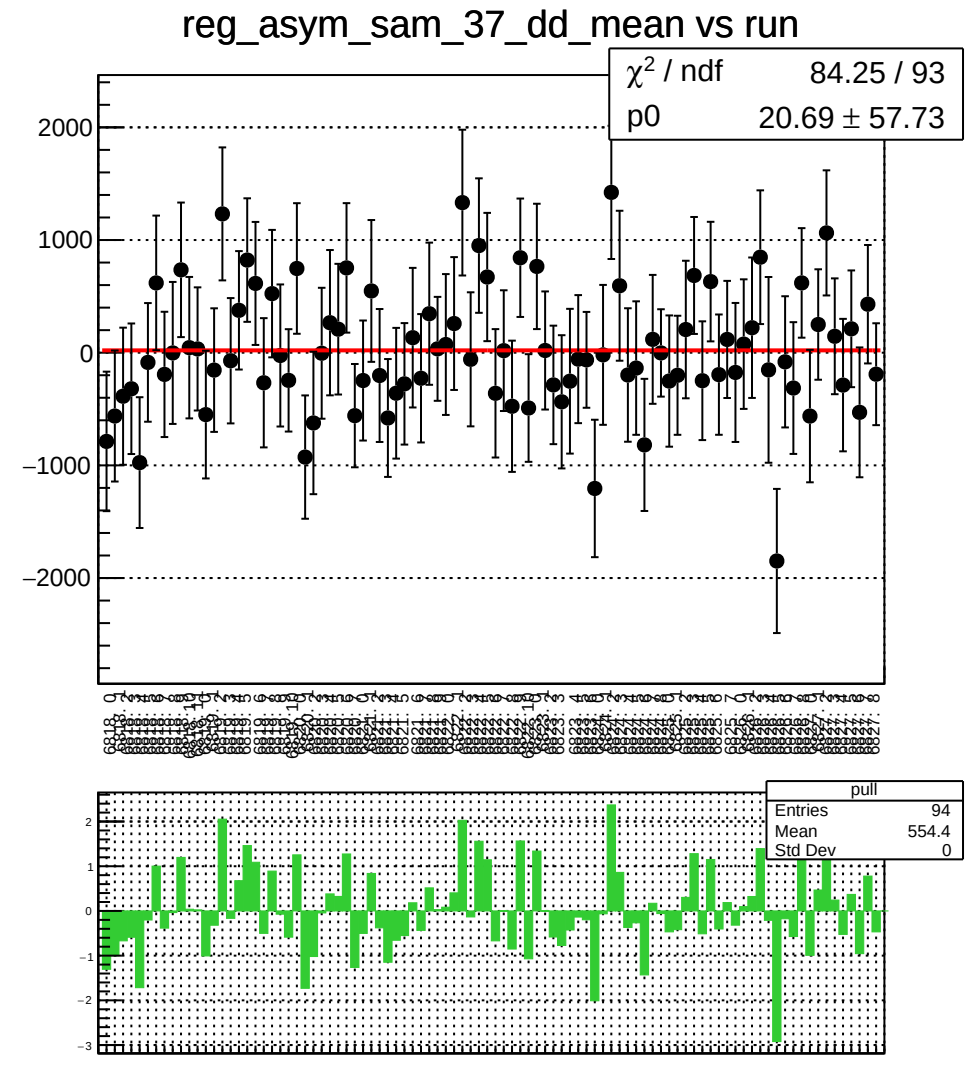


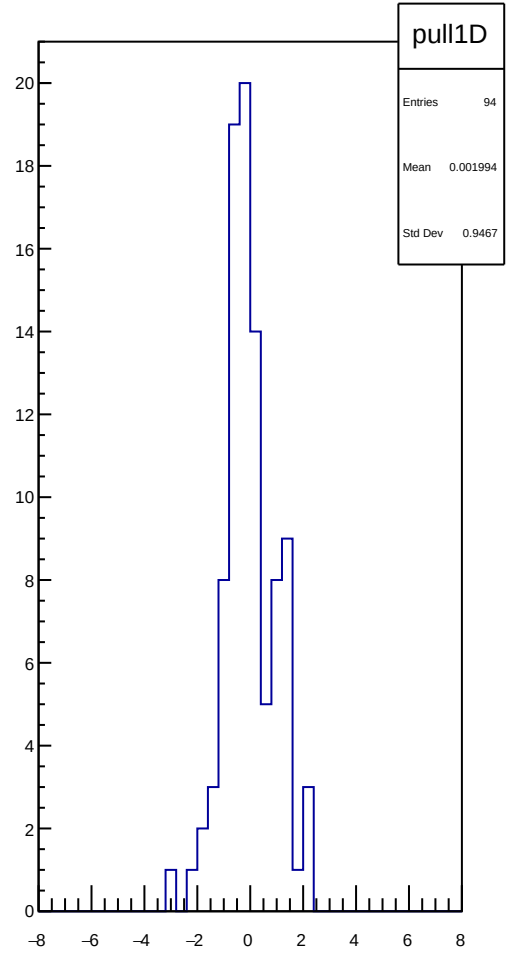


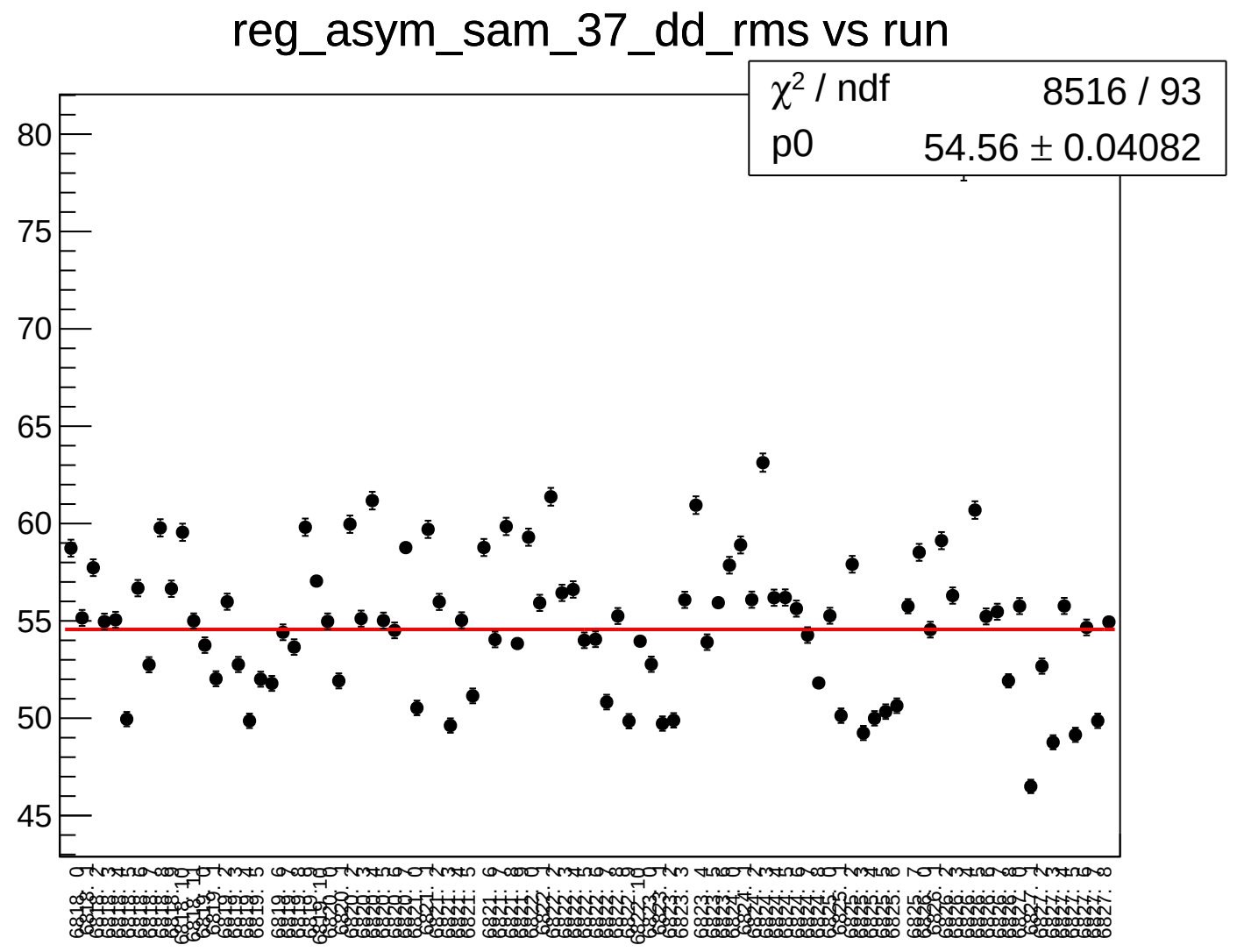

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7592 / 93
p0 100.5 ± 0.07518
115
110
105
100
95
90
85

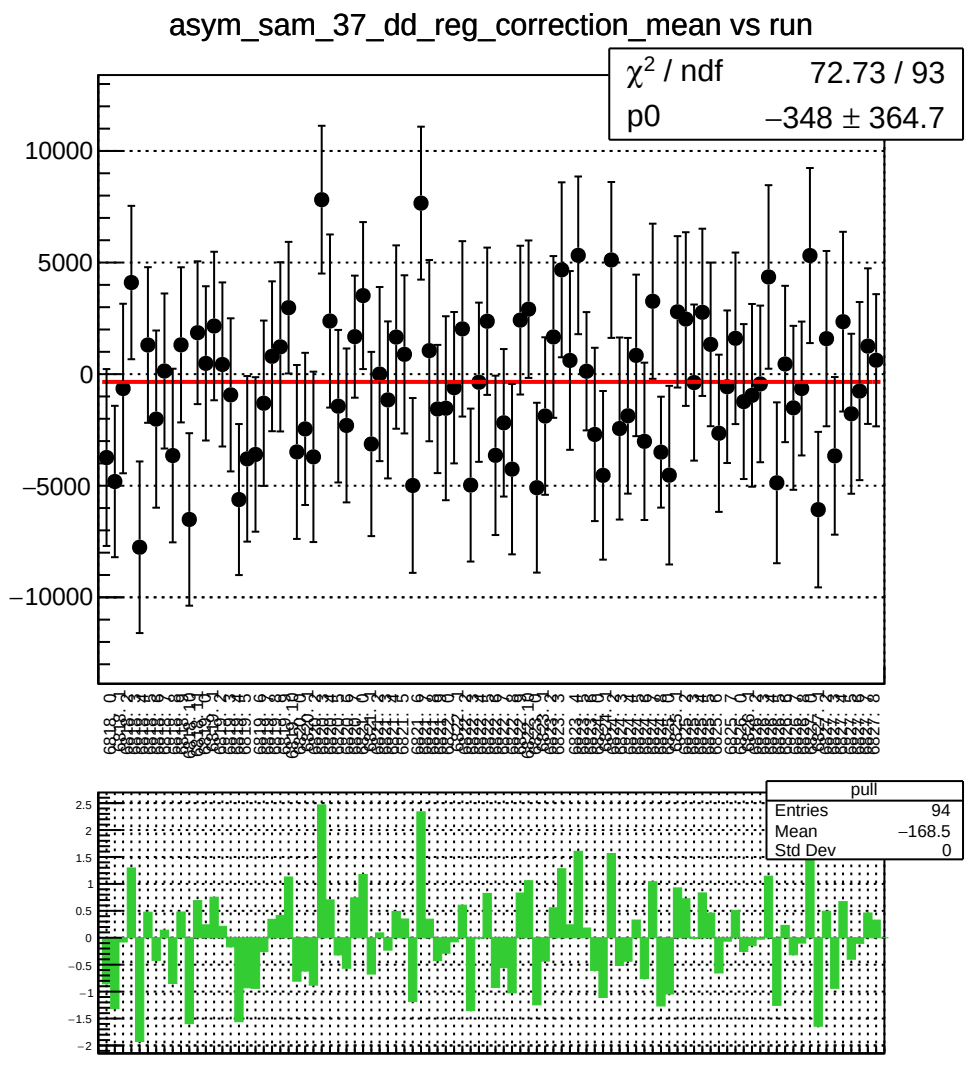

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.3 / 93
p0 6.416e−14 ± 3.797e−14
pull
Entries 94
Mean −240.1
Std Dev 0
pull1D
Entries 94
Mean 0.001601
Std Dev 0.9692

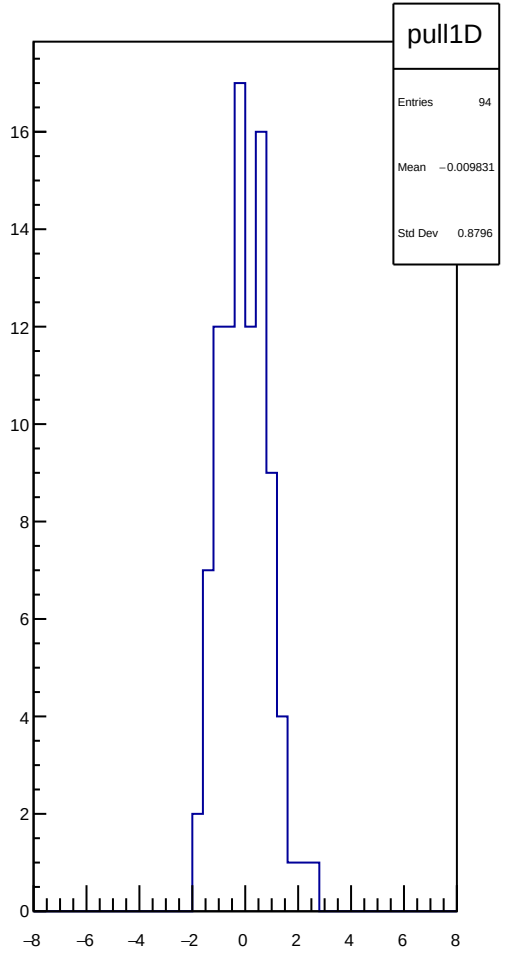

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.142e+05 / 93
p0 3.155e−11 ± 2.685e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

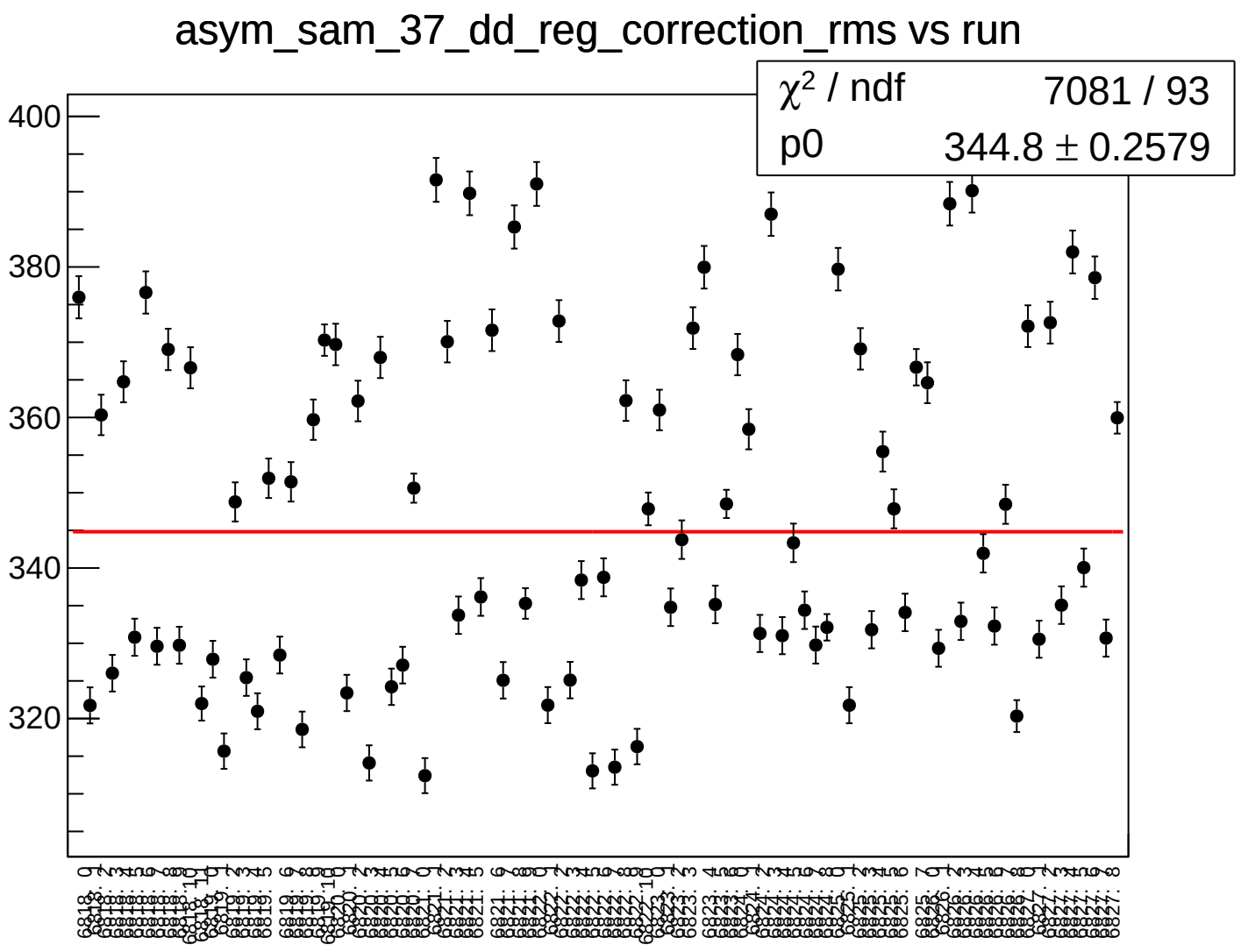

reg_asym_sam_37_dd_mean vs run
χ² / ndf 84.25 / 93
p0 20.69 ± 57.73
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 554.4
Std Dev 0
2
1
0
−1
−2
−3

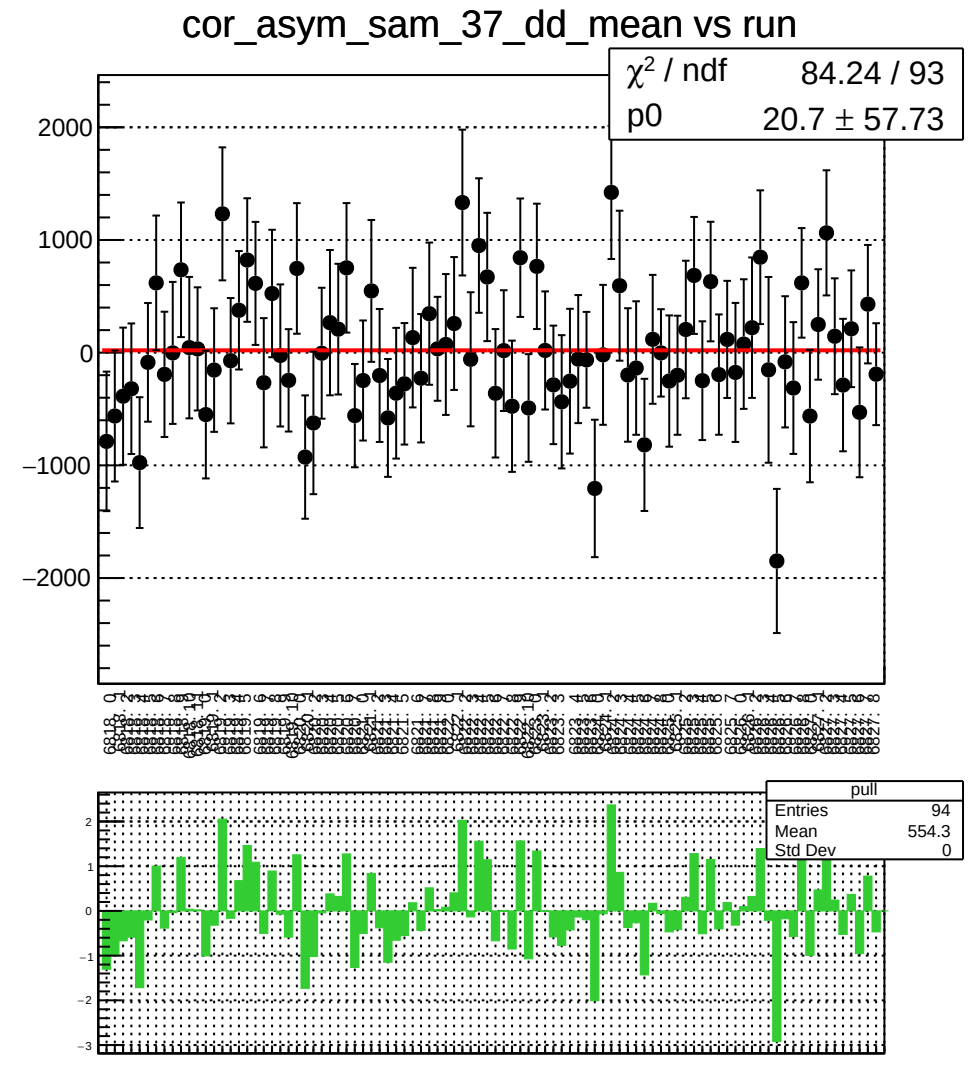

pull1D
Entries 94
Mean 0.001994
Std Dev 0.9467
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

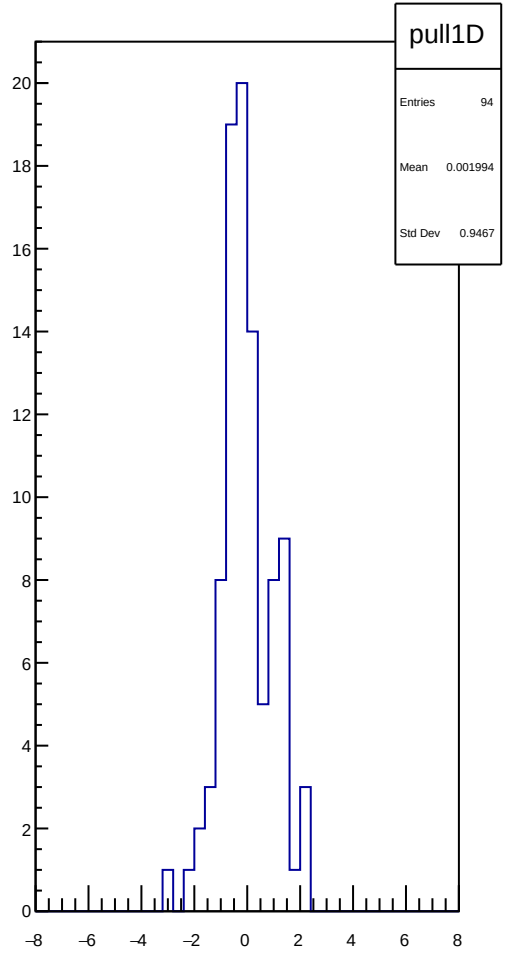

reg_asym_sam_37_dd_rms vs run
χ² / ndf 8516 / 93
p0 54.56 ± 0.04082
80
75
70
65
60
55
50
45

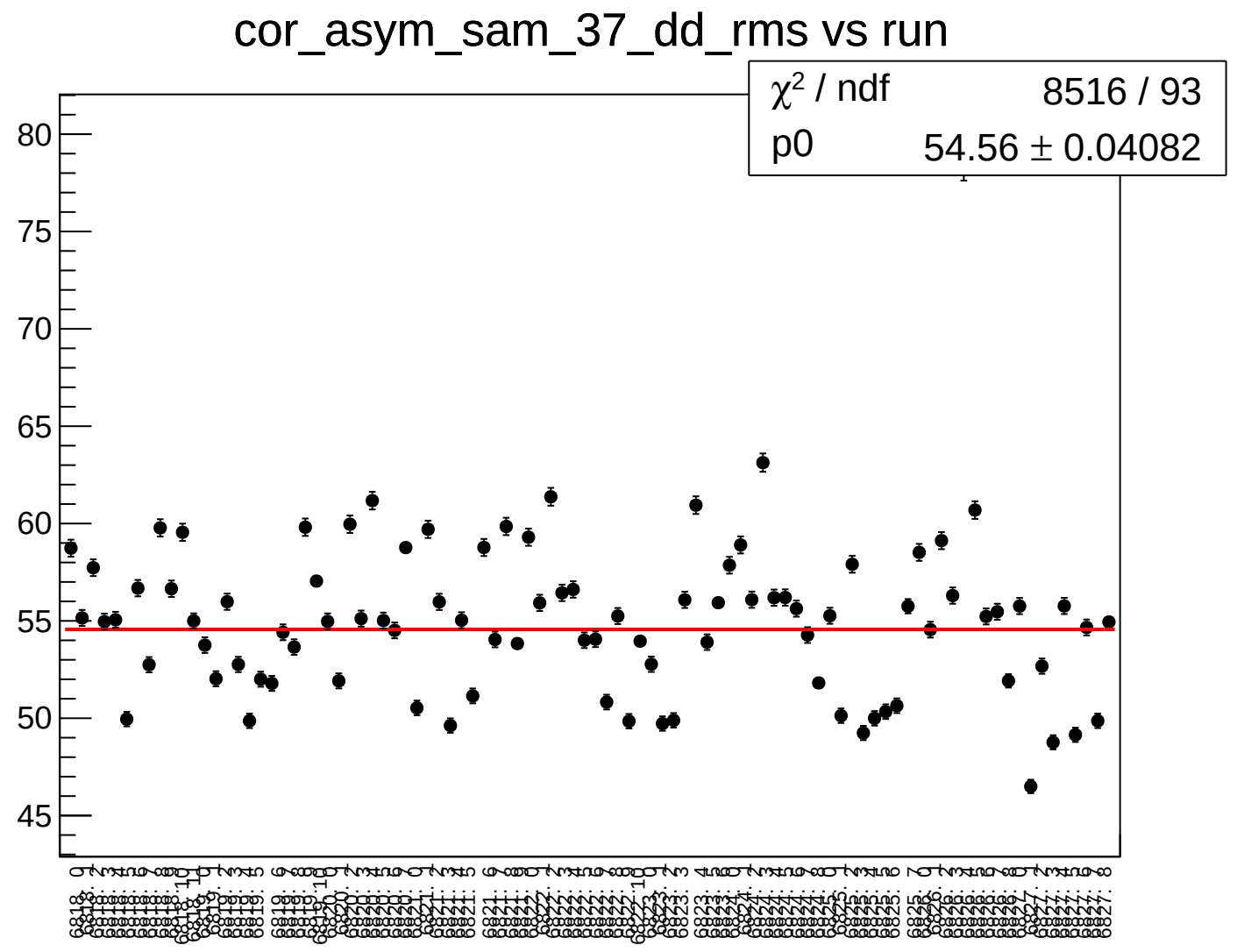

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 72.73 / 93
p0 −348 ± 364.7
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −168.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

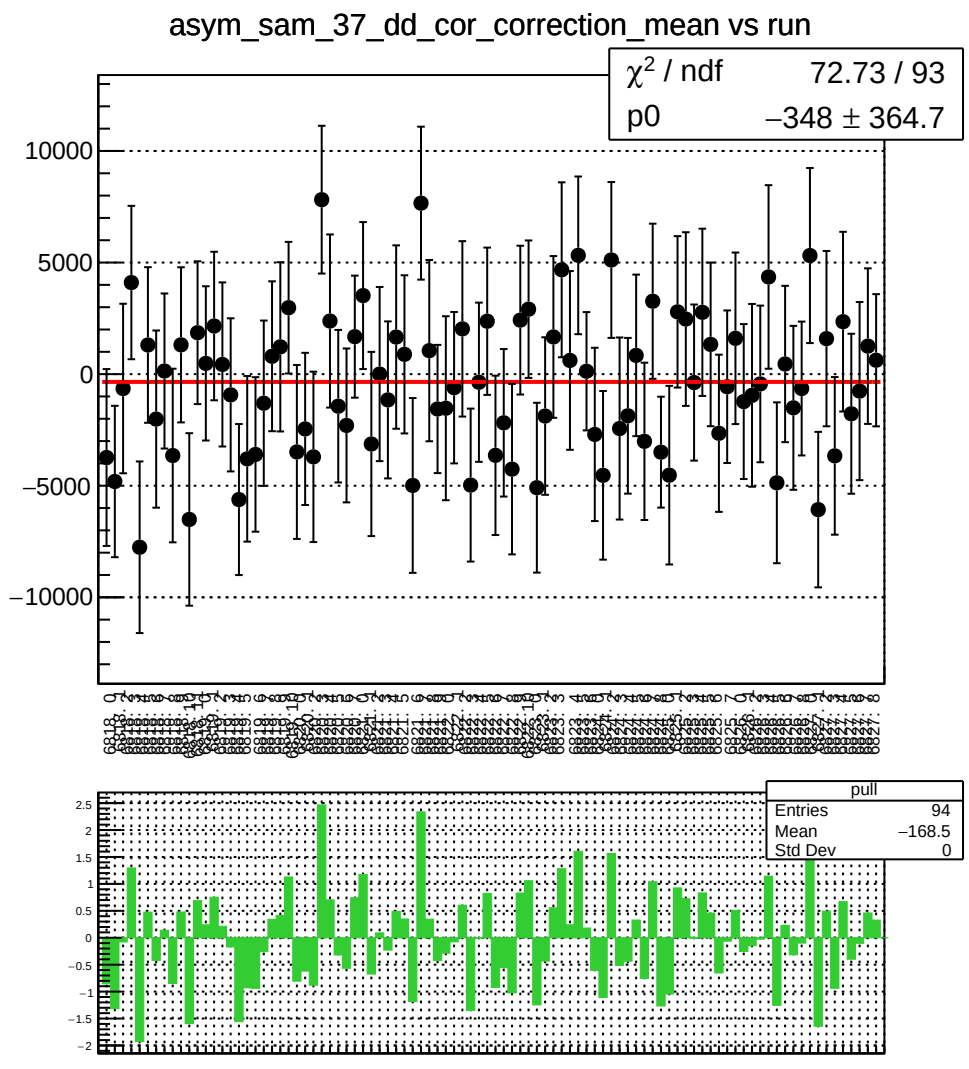

pull1D
Entries 94
Mean −0.009831
Std Dev 0.8796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

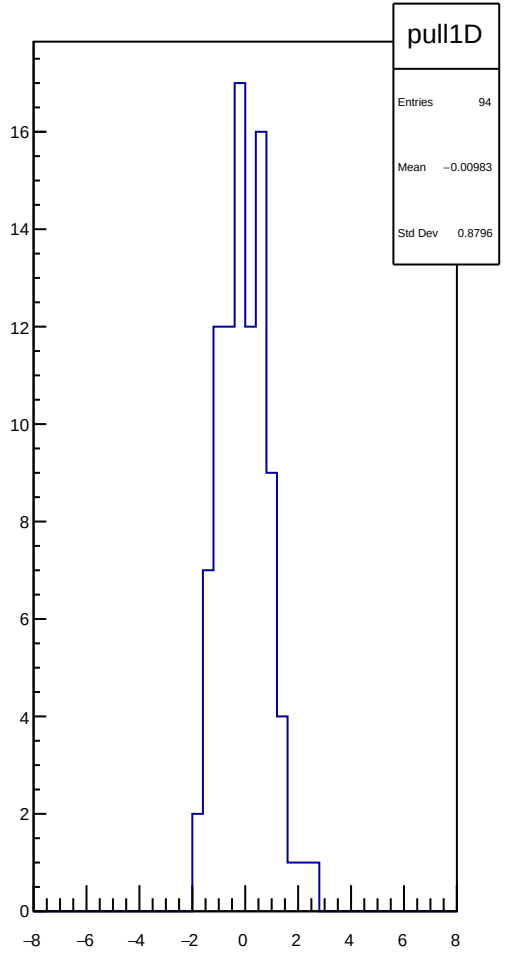

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 7081 / 93
p0 344.8 ± 0.2579
400
380
360
340
320

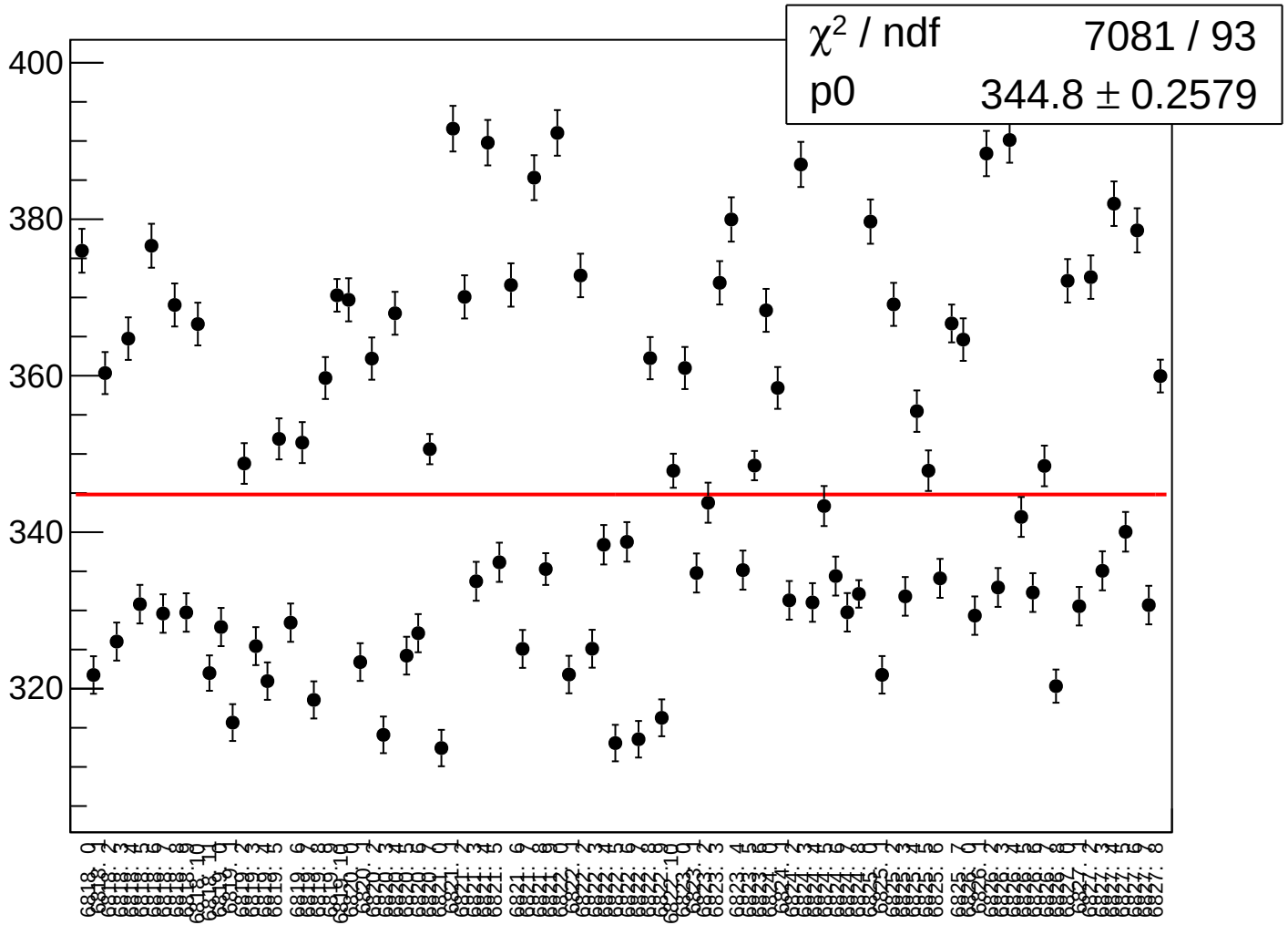

cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.24 / 93
p0 20.7 ± 57.73
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 554.3
Std Dev 0
2
1
0
−1
−2
−3

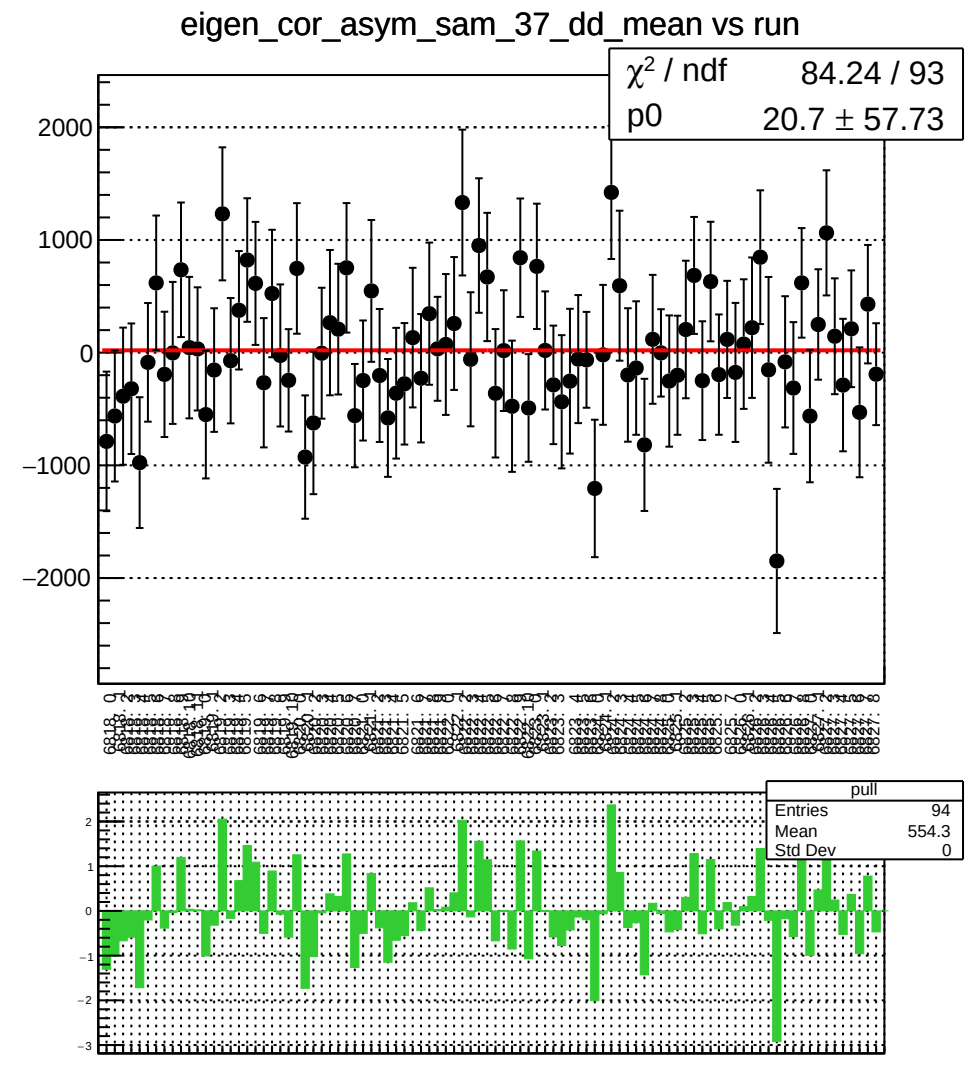

pull1D
Entries 94
Mean 0.001994
Std Dev 0.9467
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

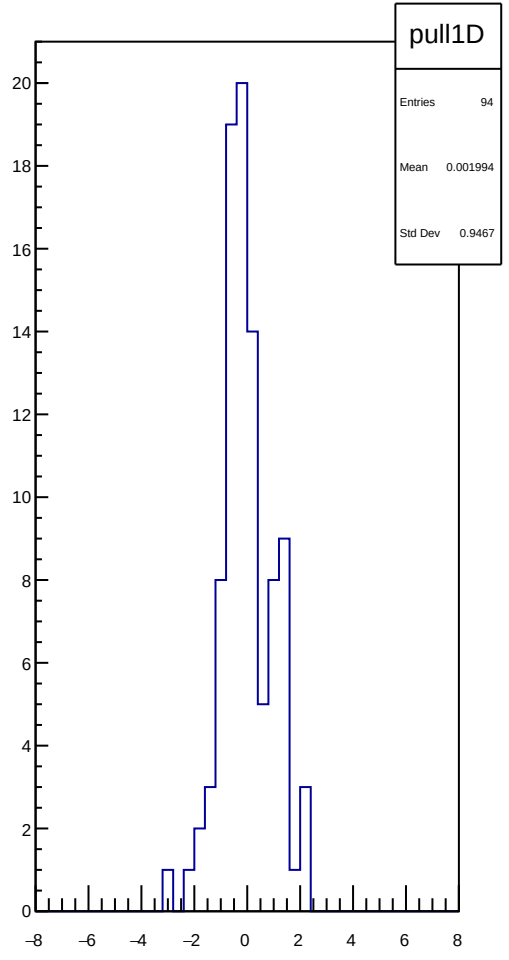

cor_asym_sam_37_dd_rms vs run
χ² / ndf 8516 / 93
p0 54.56 ± 0.04082
80
75
70
65
60
55
50
45

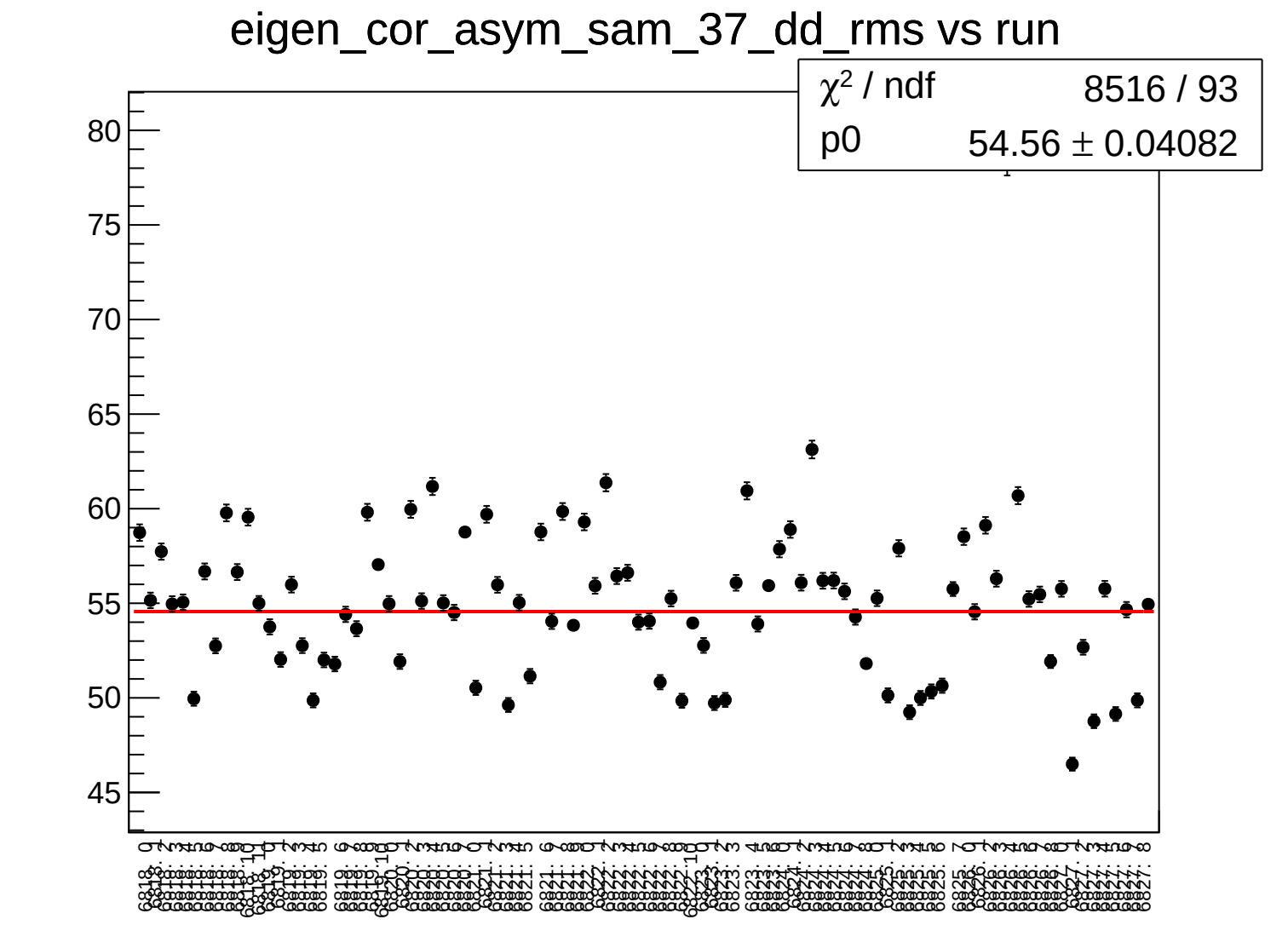

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 72.73 / 93
p0 −348 ± 364.7
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −168.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

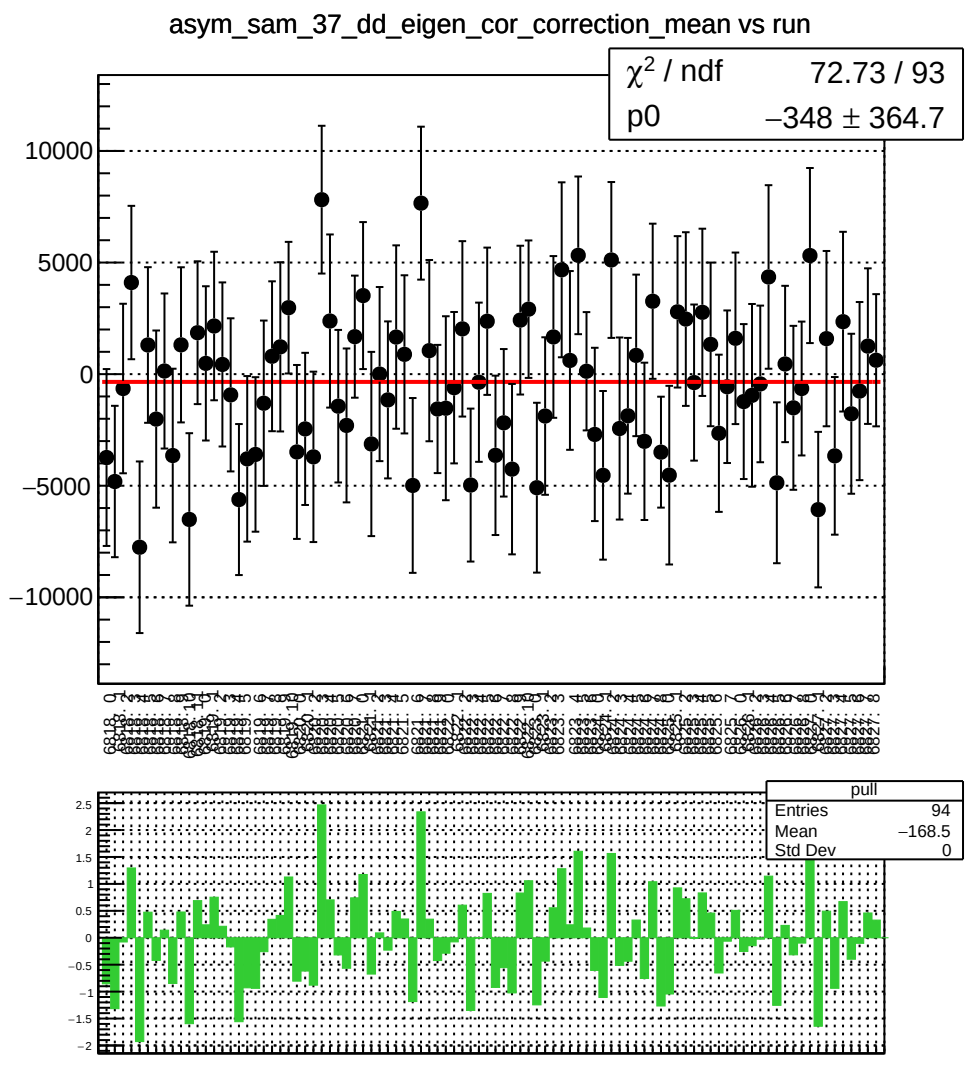

pull1D
Entries 94
Mean −0.00983
Std Dev 0.8796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

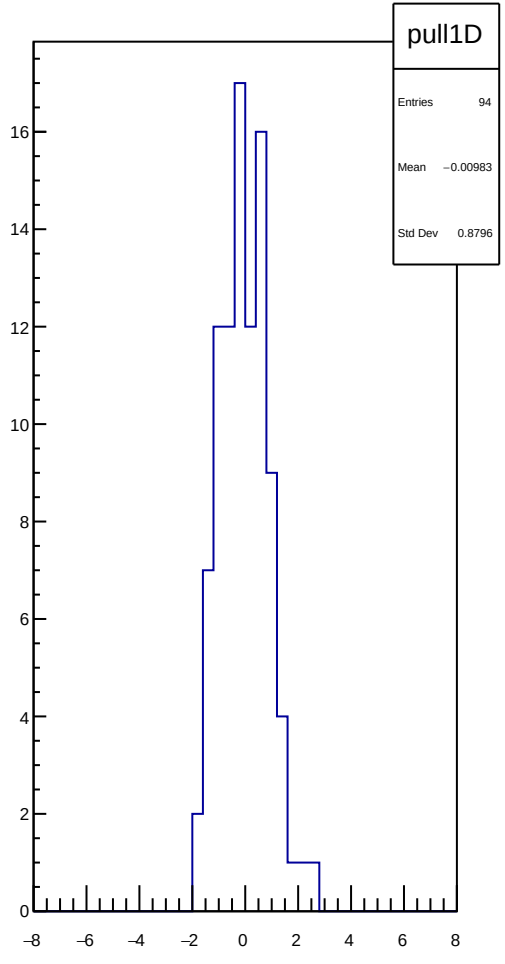

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 7081 / 93
p0 344.8 ± 0.2579
400
380
360
340
320

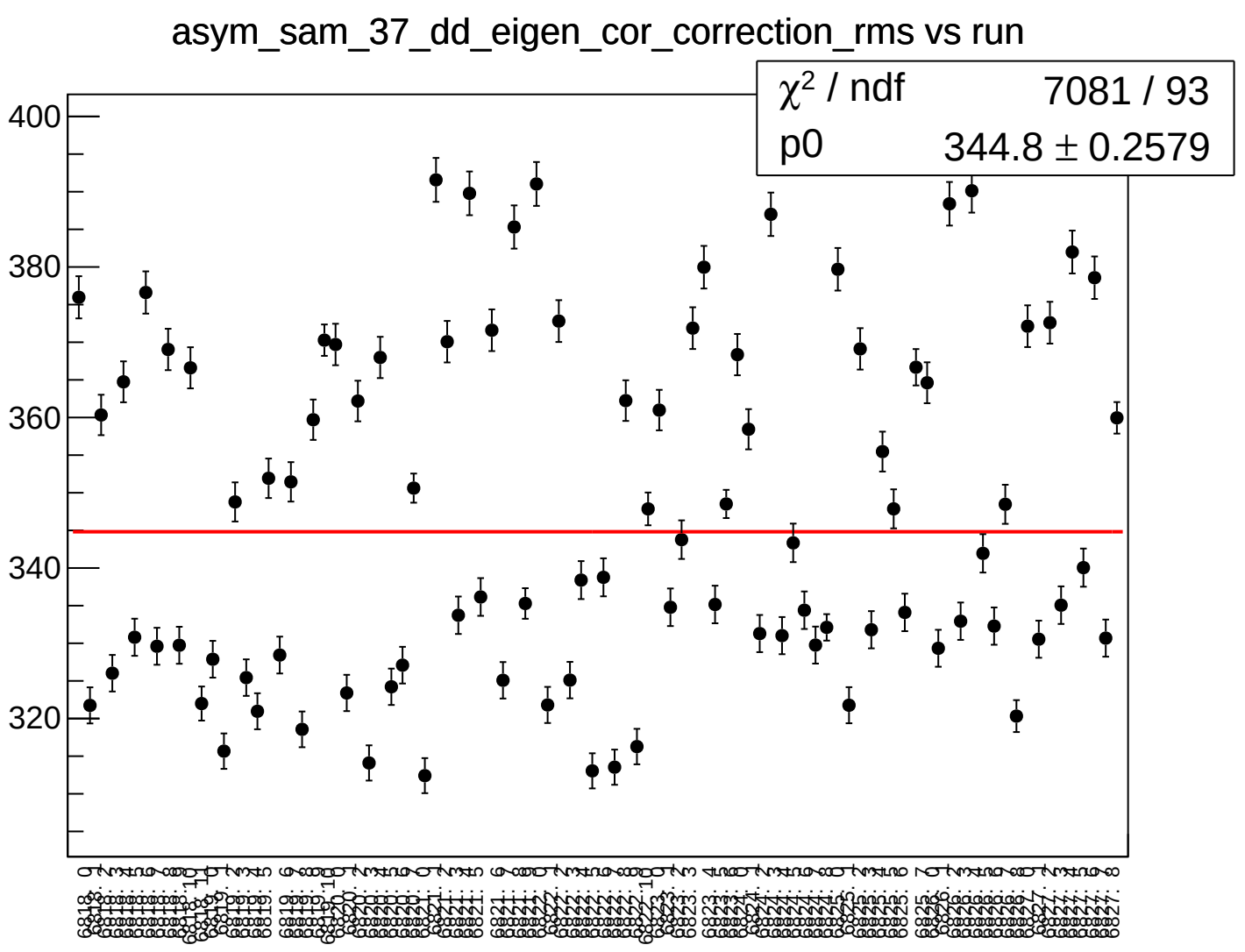

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 84.24 / 93
p0 20.7 ± 57.73
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 554.3
Std Dev 0
2
1
0
−1
−2
−3

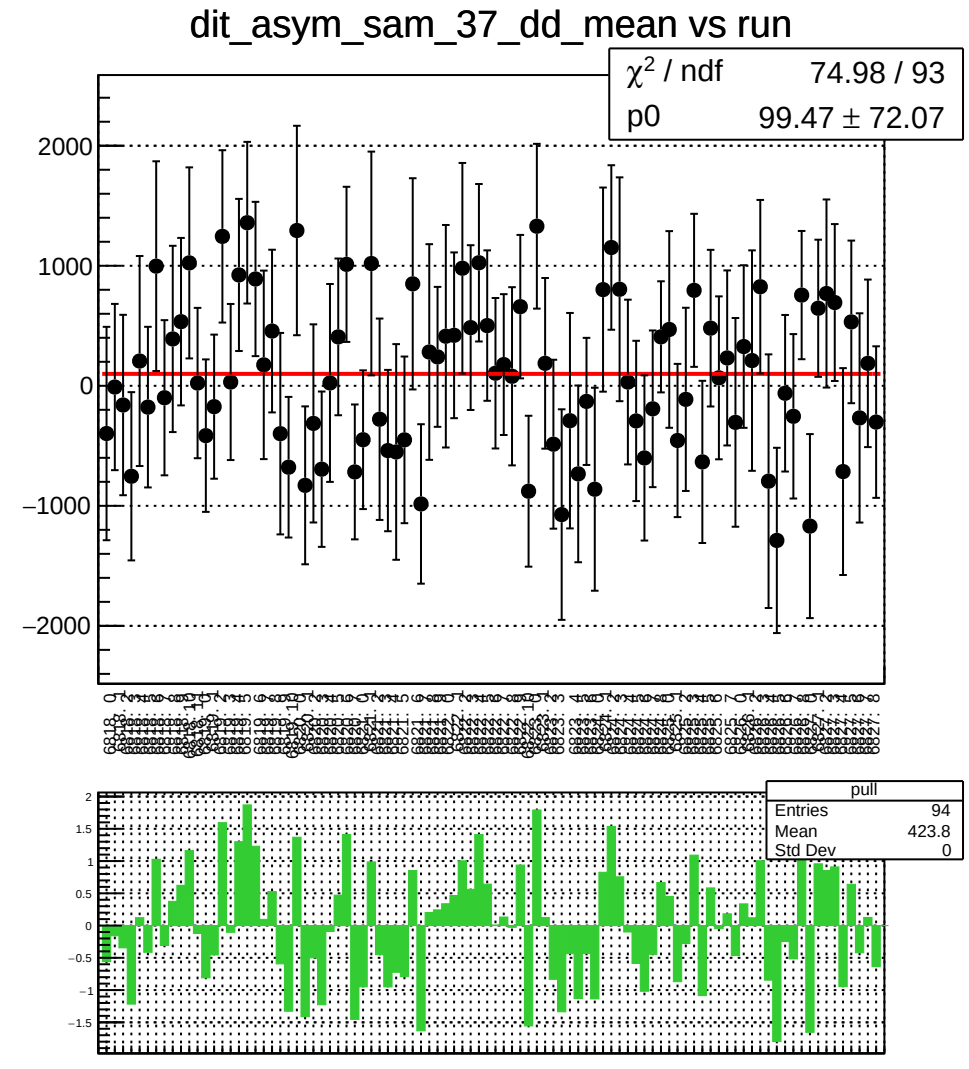

pull1D
Entries 94
Mean 0.001994
Std Dev 0.9467
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

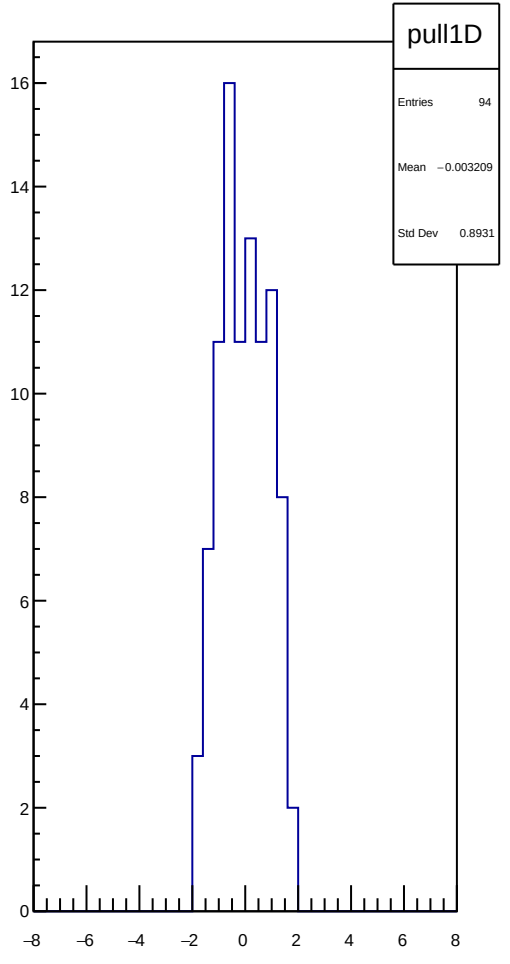

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 8516 / 93
p0 54.56 ± 0.04082
80
75
70
65
60
55
50
45

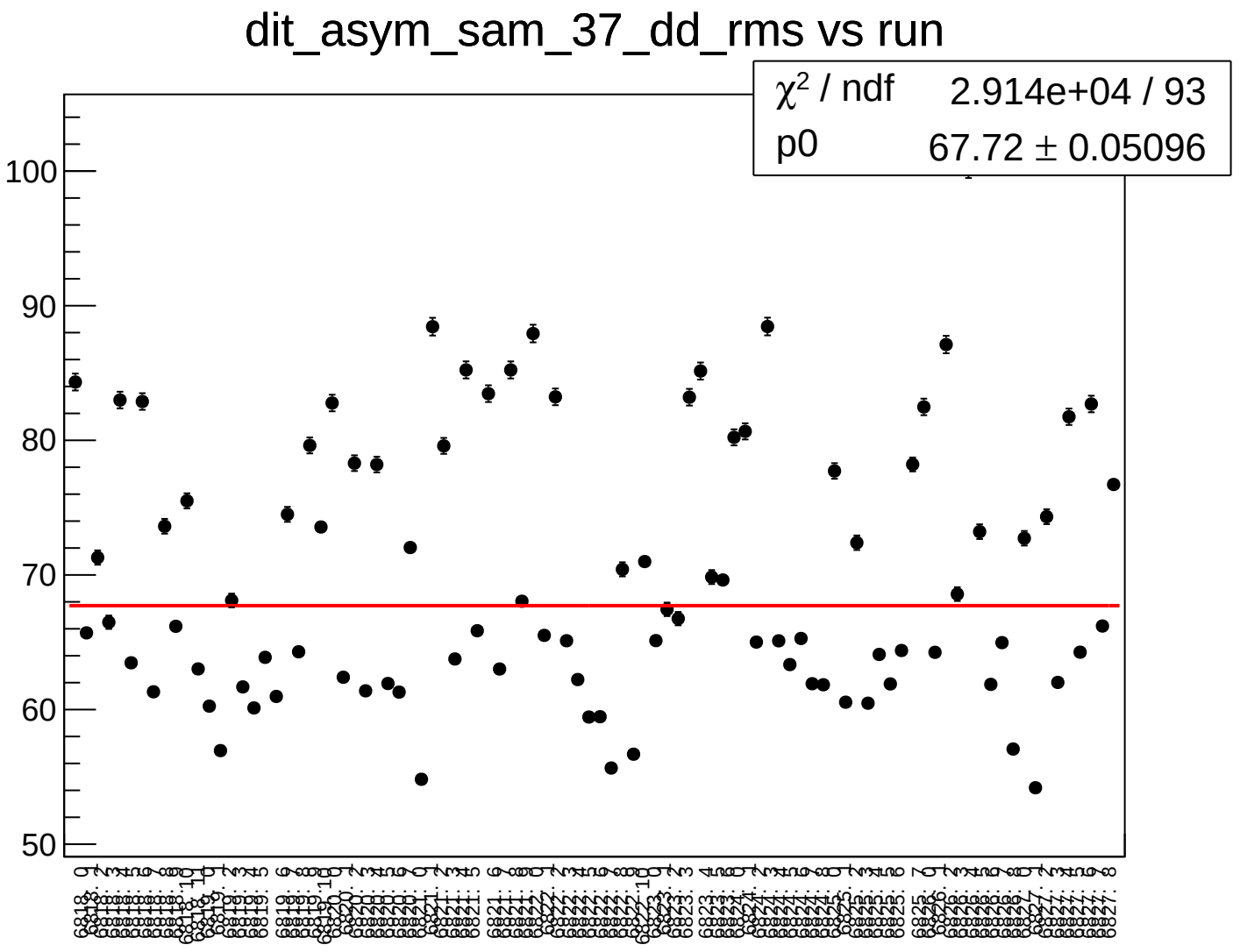

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.73 / 93
p0 −348 ± 364.7
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −168.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

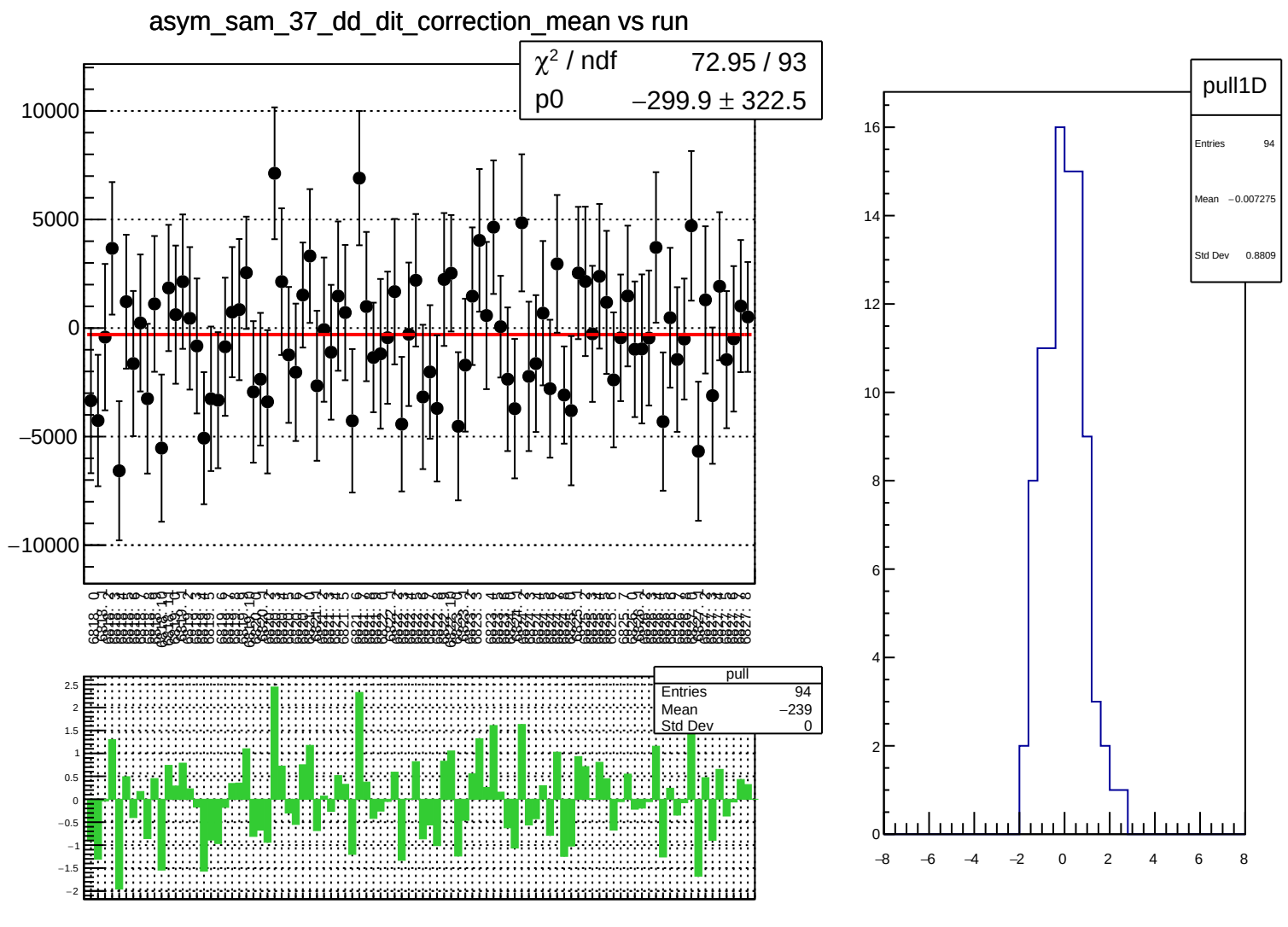

pull1D
Entries 94
Mean −0.00983
Std Dev 0.8796
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

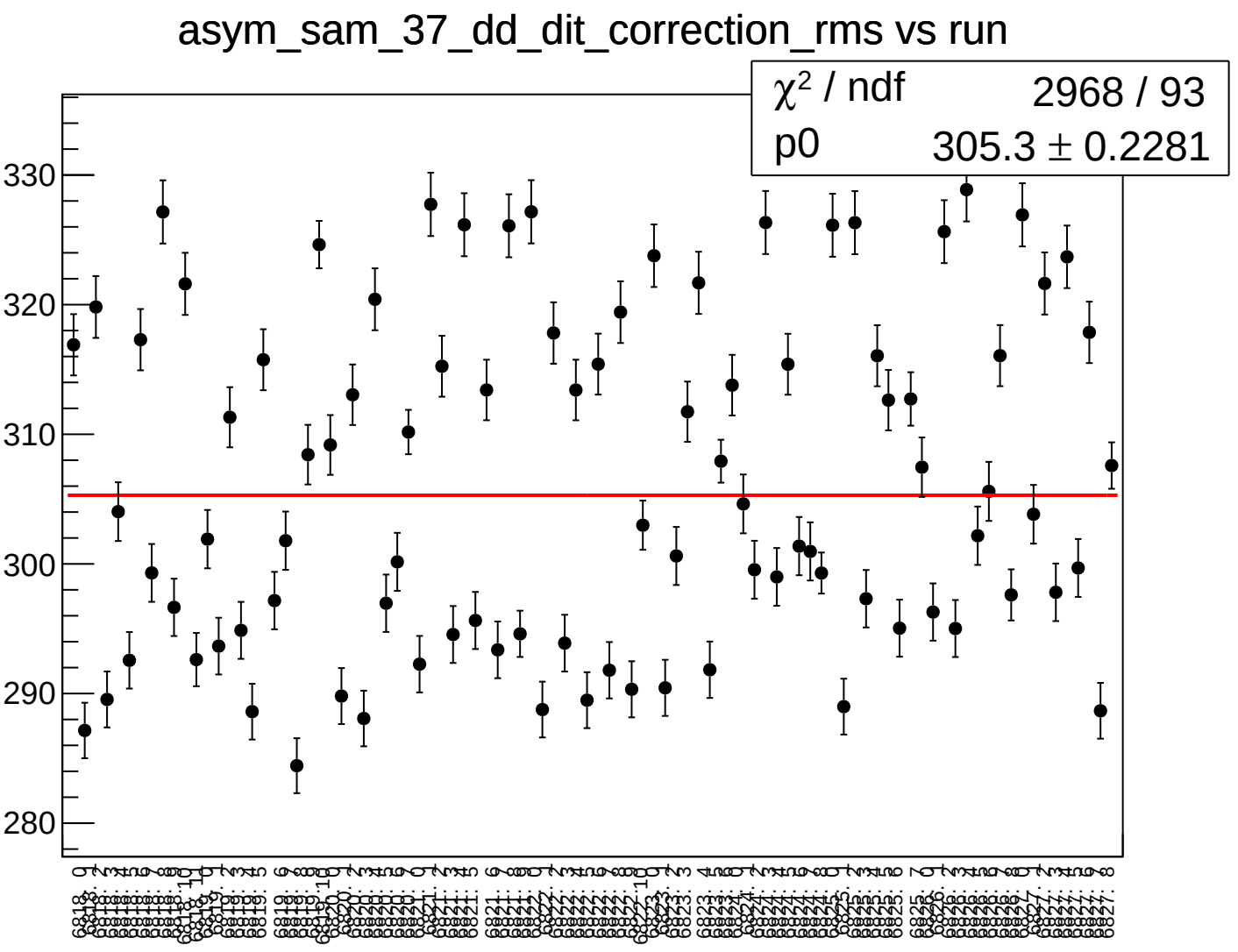

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7081 / 93
p0 344.8 ± 0.2579
400
380
360
340
320

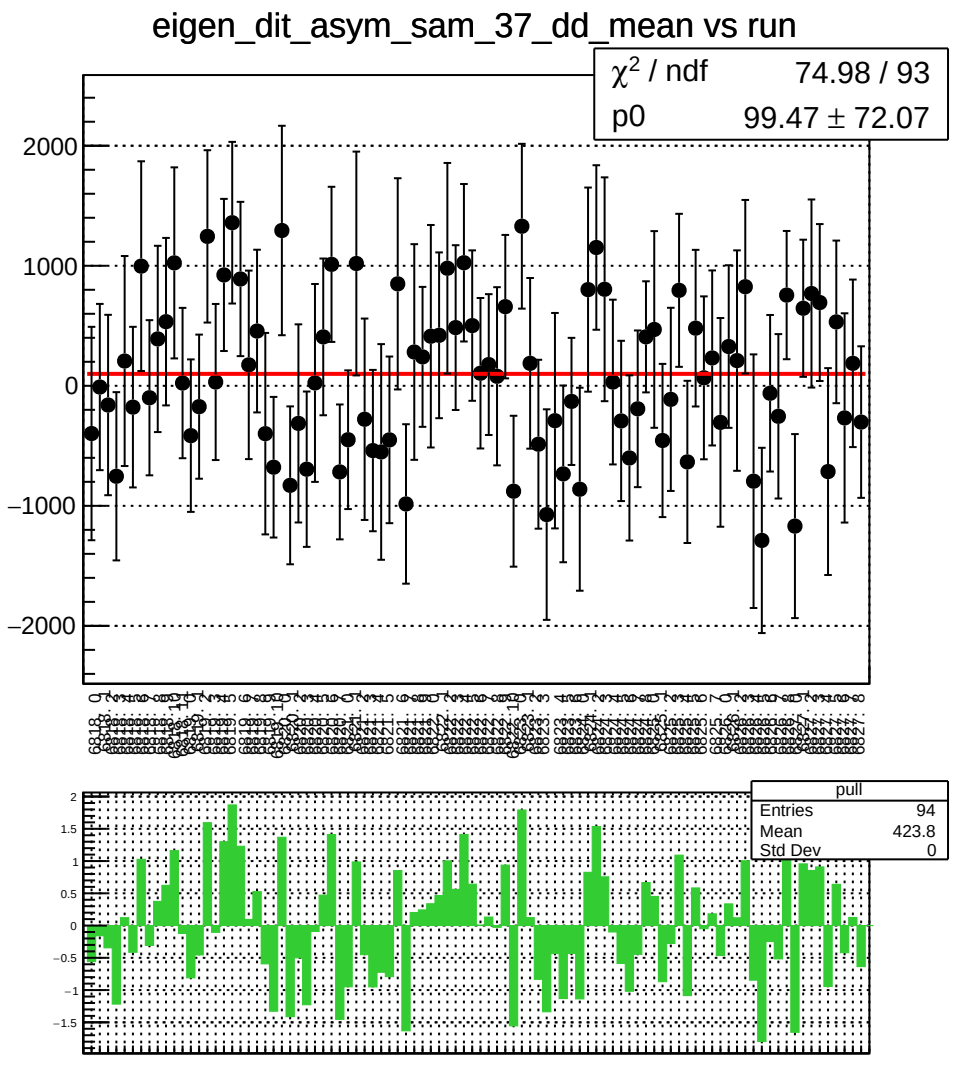

dit_asym_sam_37_dd_mean vs run
χ² / ndf 74.98 / 93
p0 99.47 ± 72.07
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 423.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

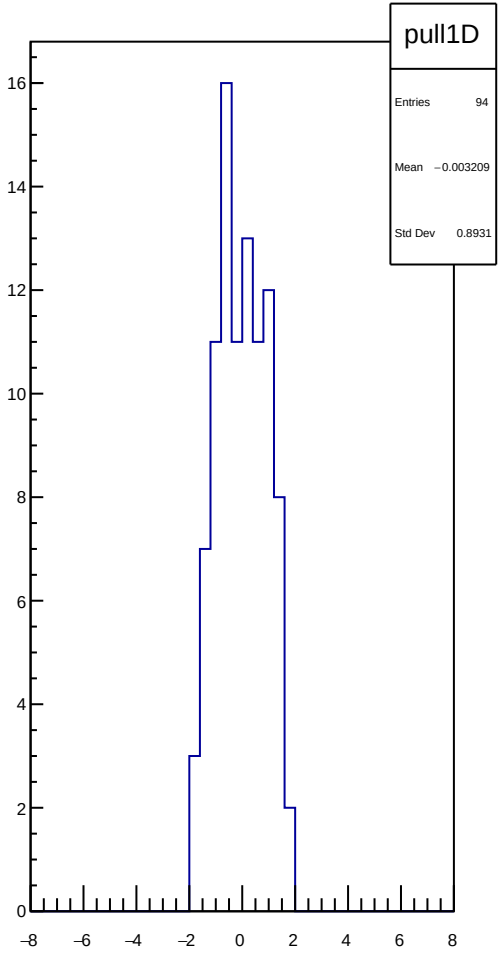

pull1D
Entries 94
Mean −0.003209
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

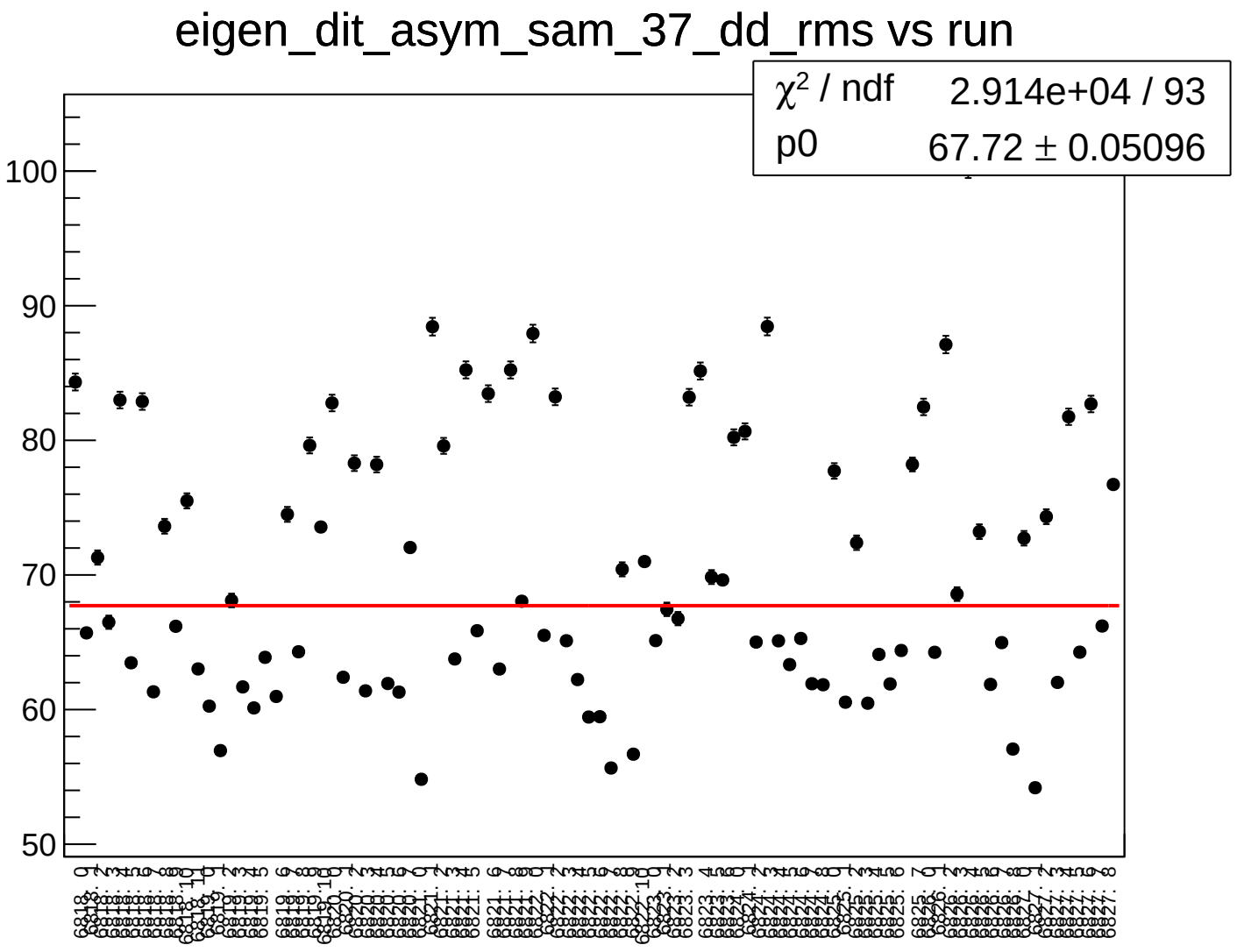

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.914e+04 / 93
p0 67.72 ± 0.05096
100
90
80
70
60
50

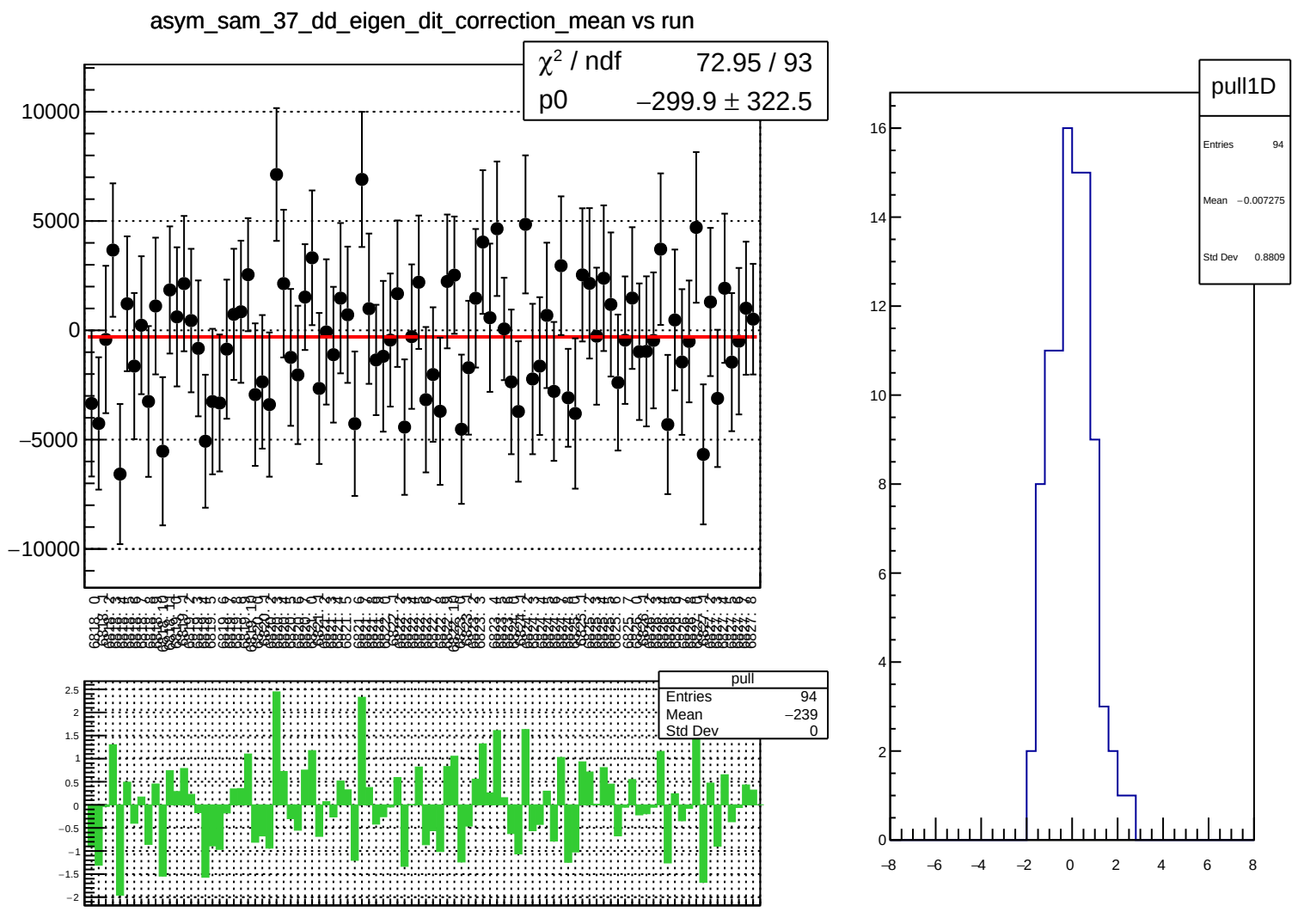

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 72.95 / 93
p0 −299.9 ± 322.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −239
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007275
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

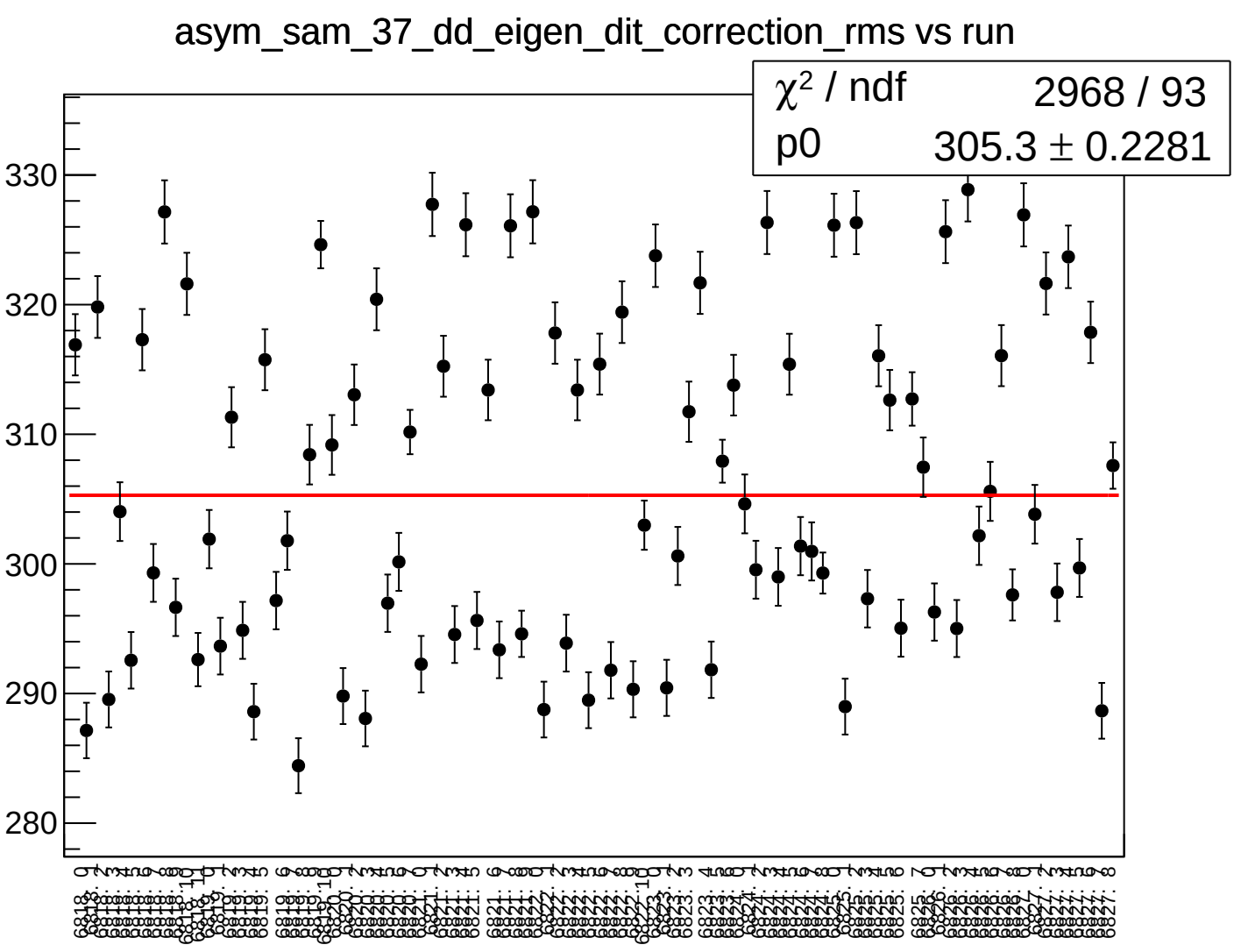

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2968 / 93
p0 305.3 ± 0.2281
330
320
310
300
290
280

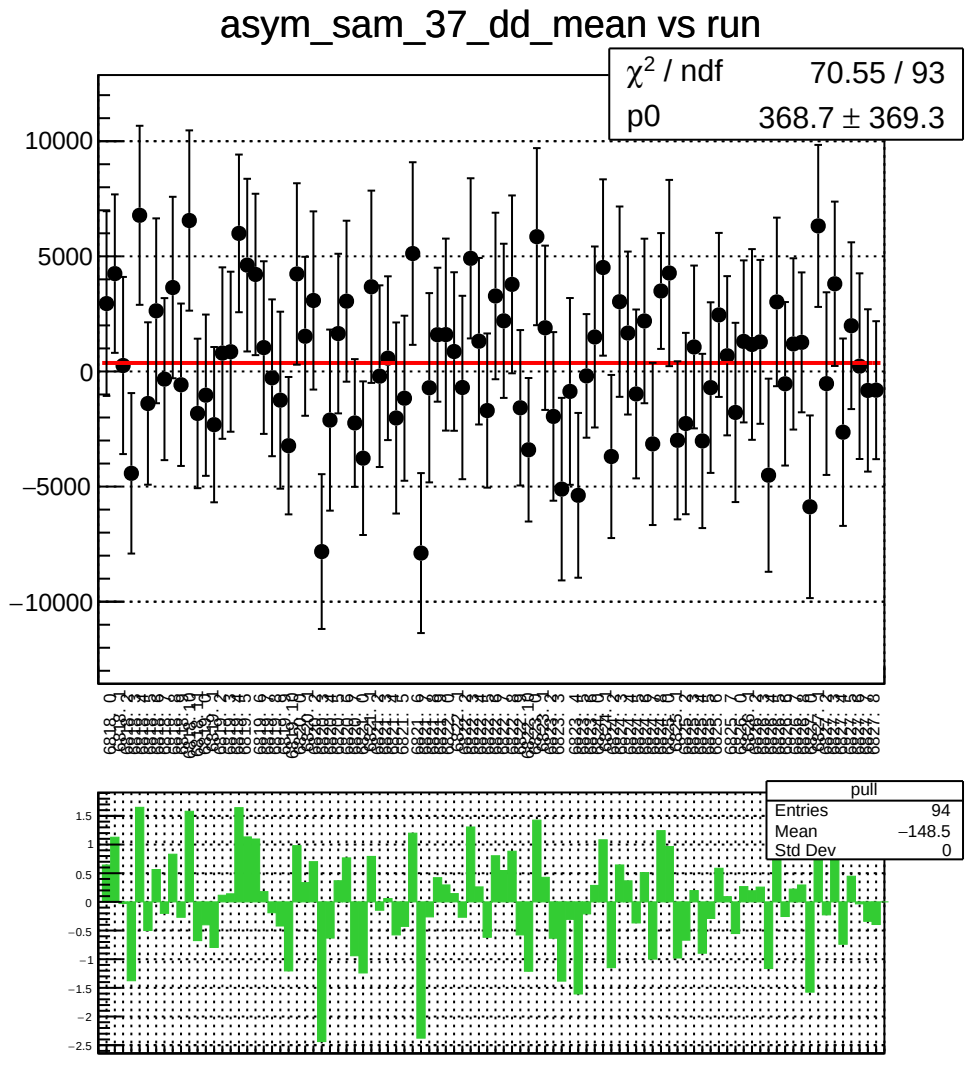

eigen_dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 74.98 / 93
p0 99.47 ± 72.07
2000
1000
0
−1000
−2000
pull
Entries 94
Mean 423.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

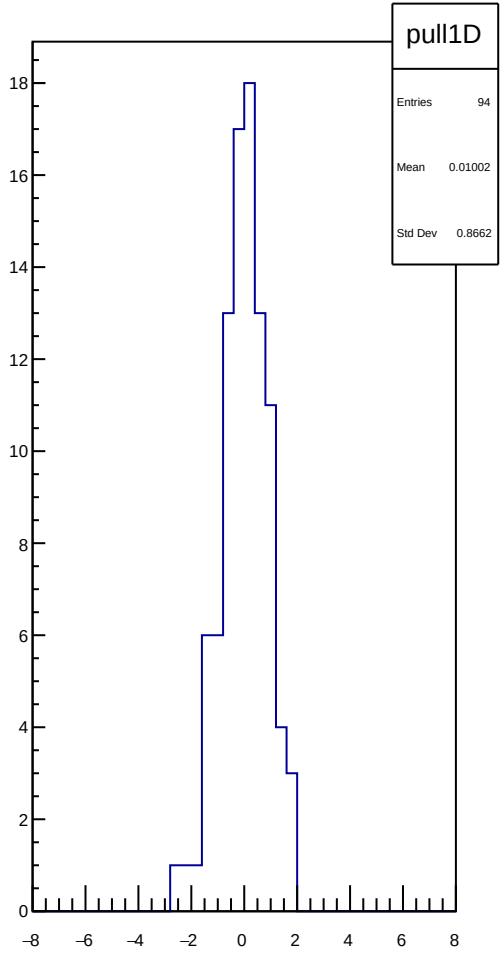

pull1D
Entries 94
Mean −0.003209
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

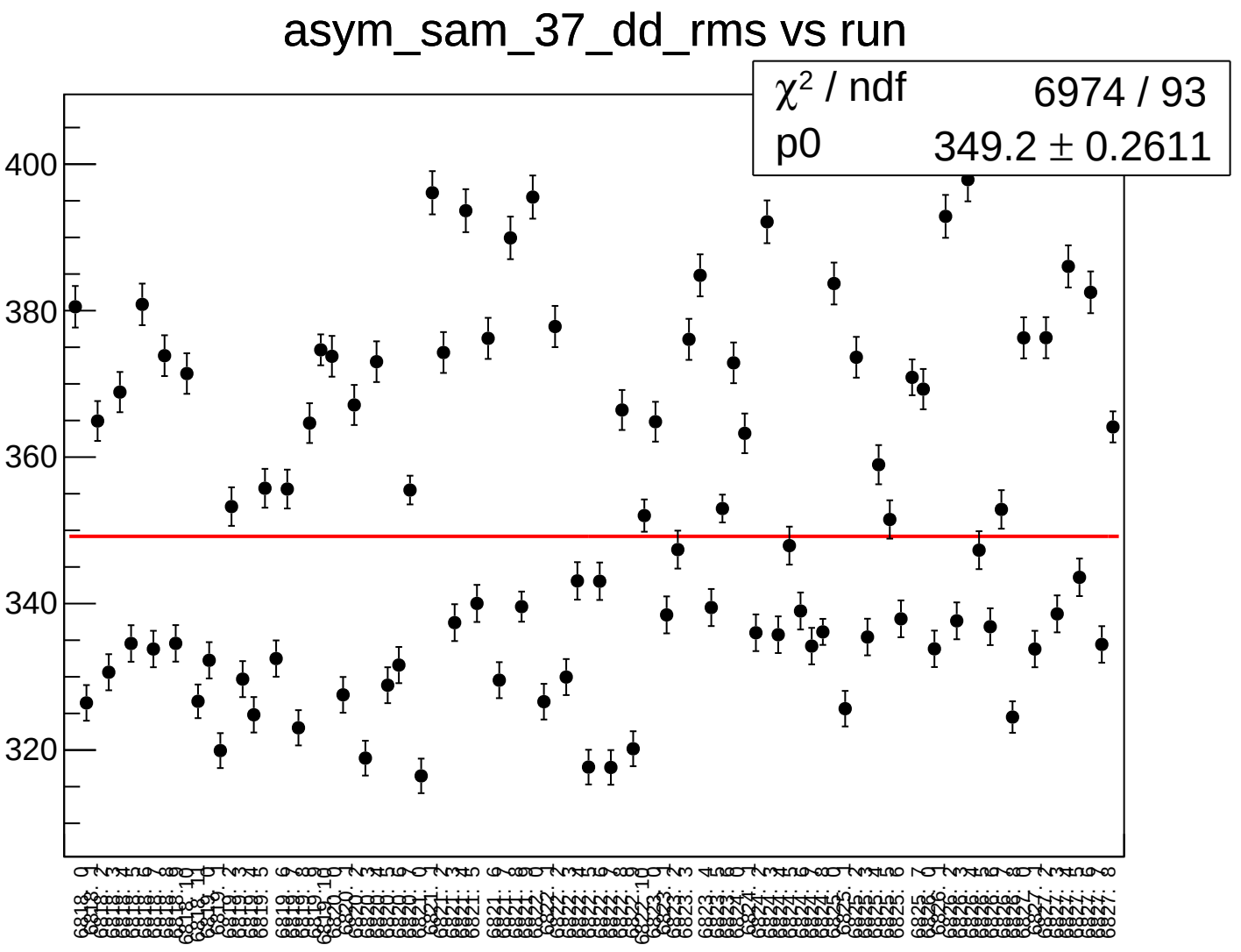

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 2.914e+04 / 93
p0 67.72 ± 0.05096
100
90
80
70
60
50

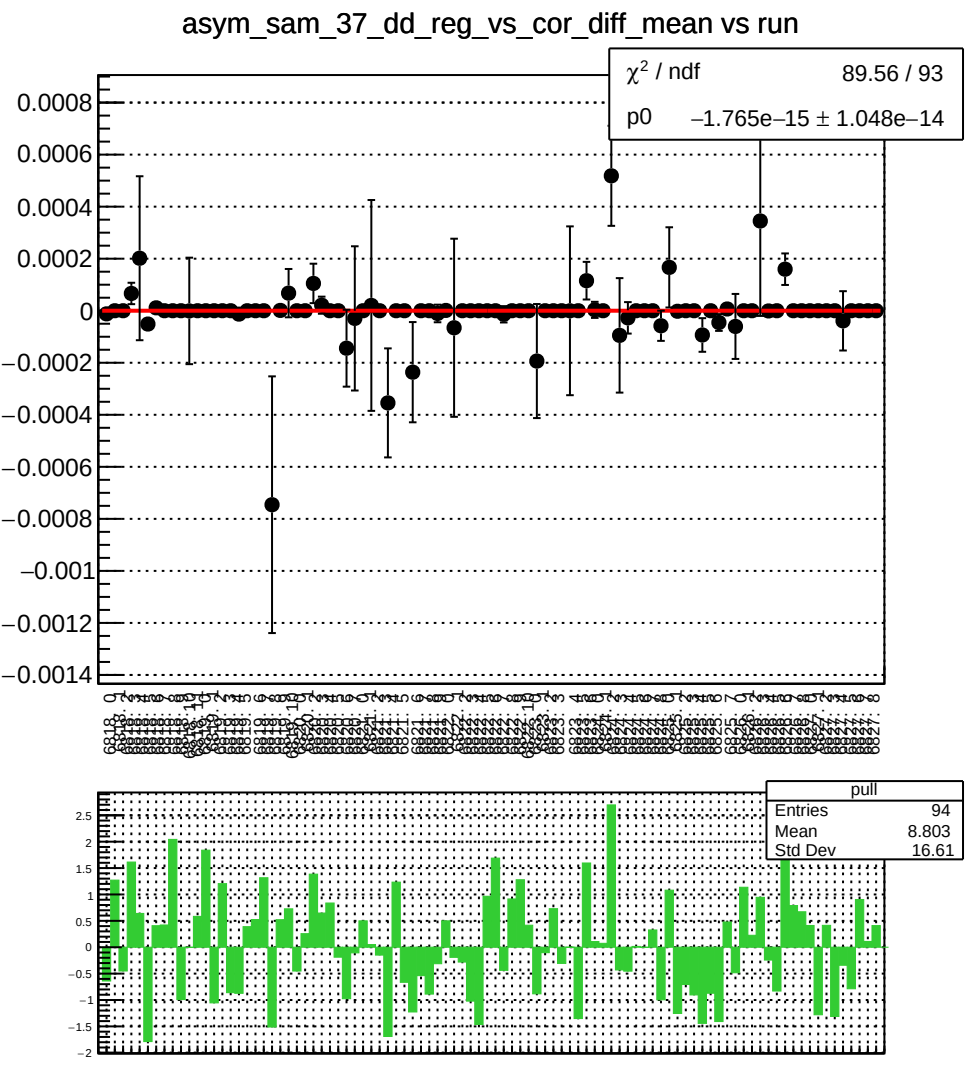

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.95 / 93
p0 −299.9 ± 322.5
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −239
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007275
Std Dev 0.8809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

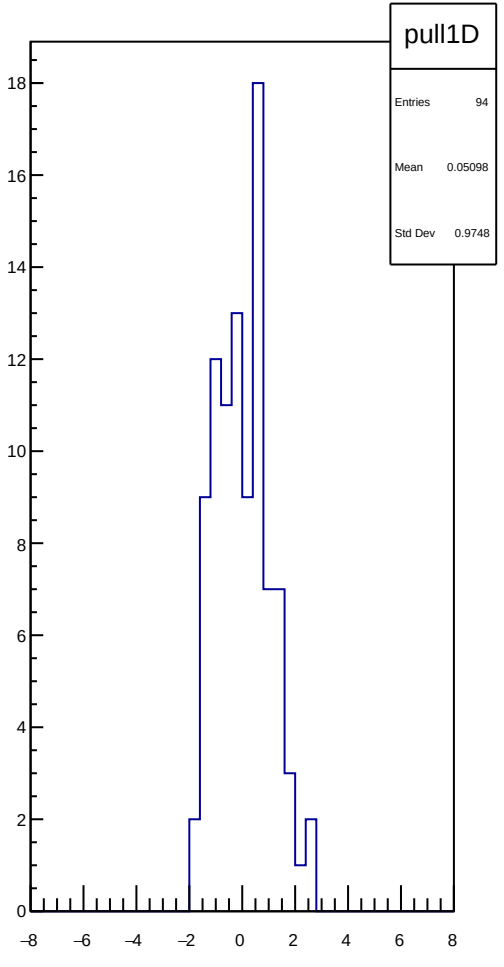

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2968 / 93
p0 305.3 ± 0.2281
330
320
310
300
290
280

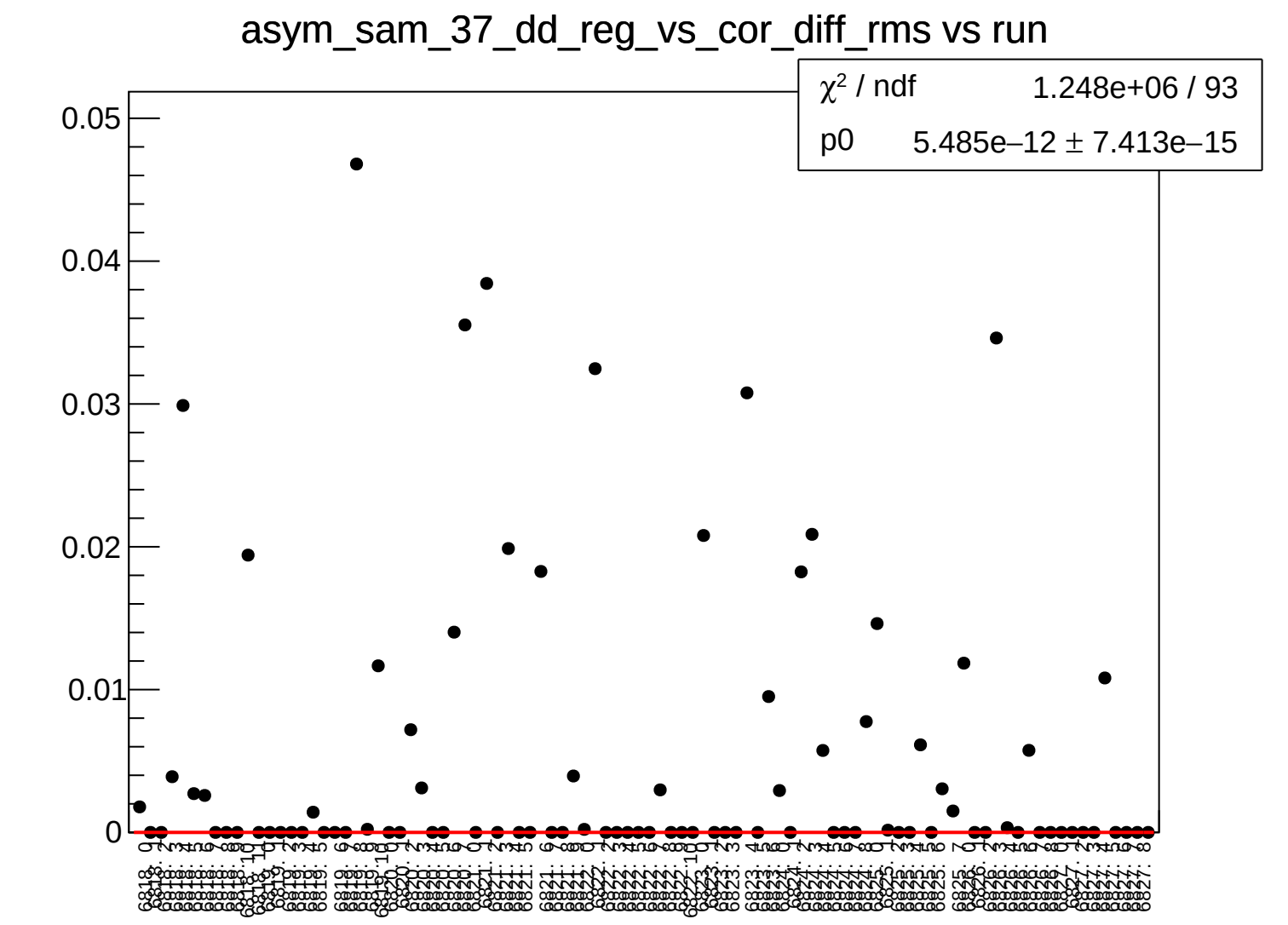

asym_sam_37_dd_mean vs run
χ² / ndf 70.55 / 93
p0 368.7 ± 369.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −148.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

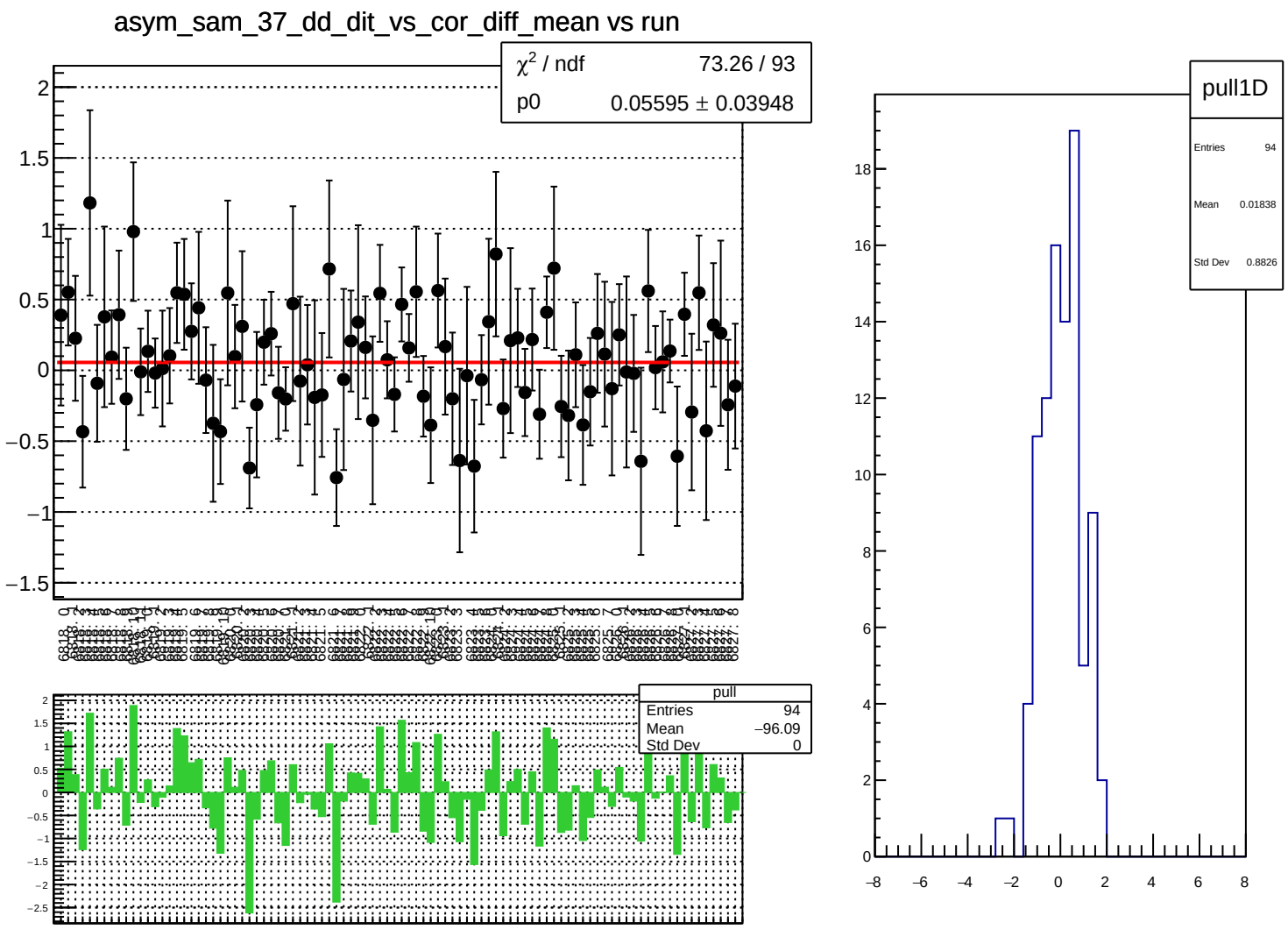

pull1D
Entries 94
Mean 0.01002
Std Dev 0.8662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

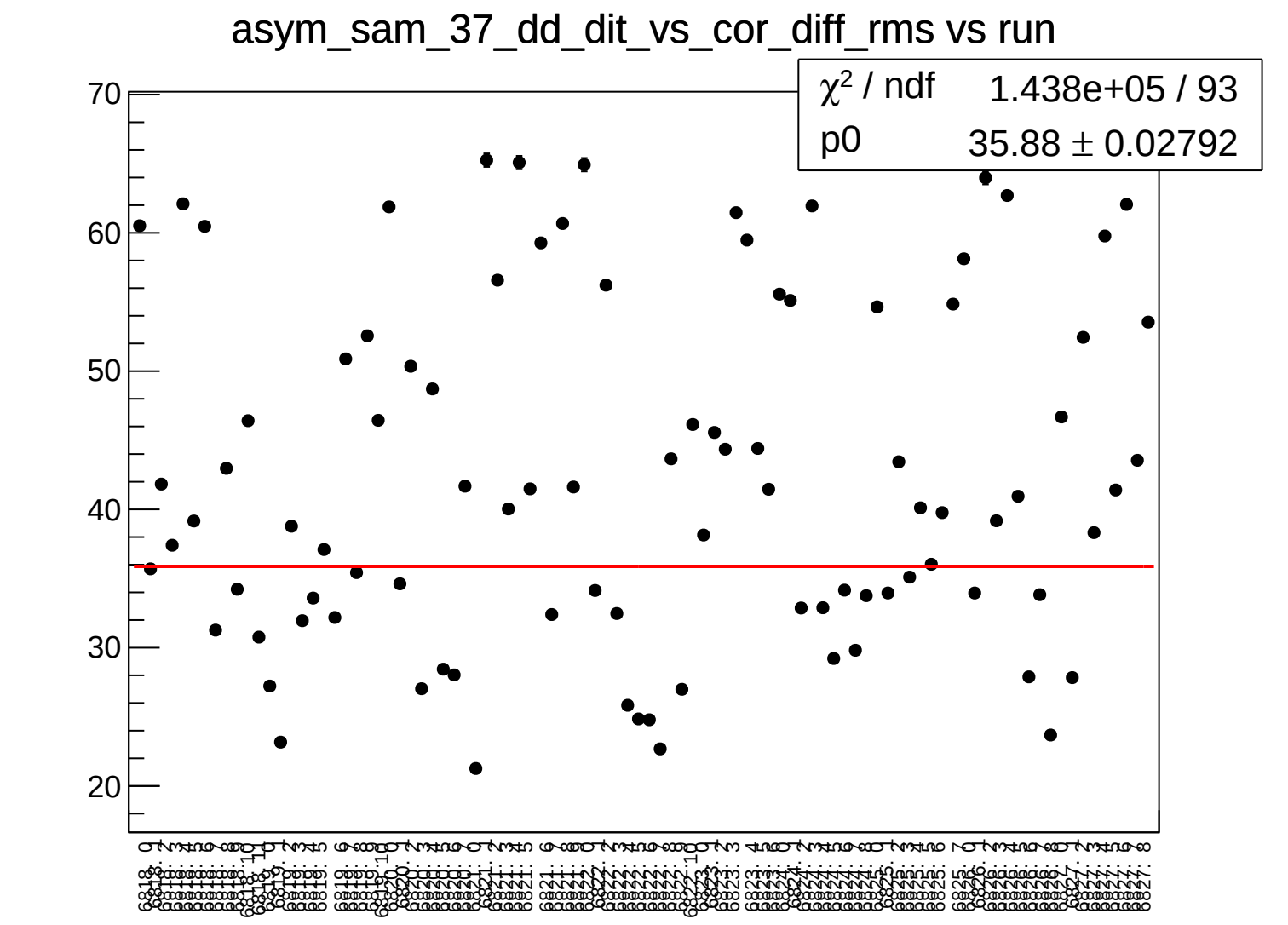

asym_sam_37_dd_rms vs run
χ² / ndf 6974 / 93
p0 349.2 ± 0.2611
400
380
360
340
320

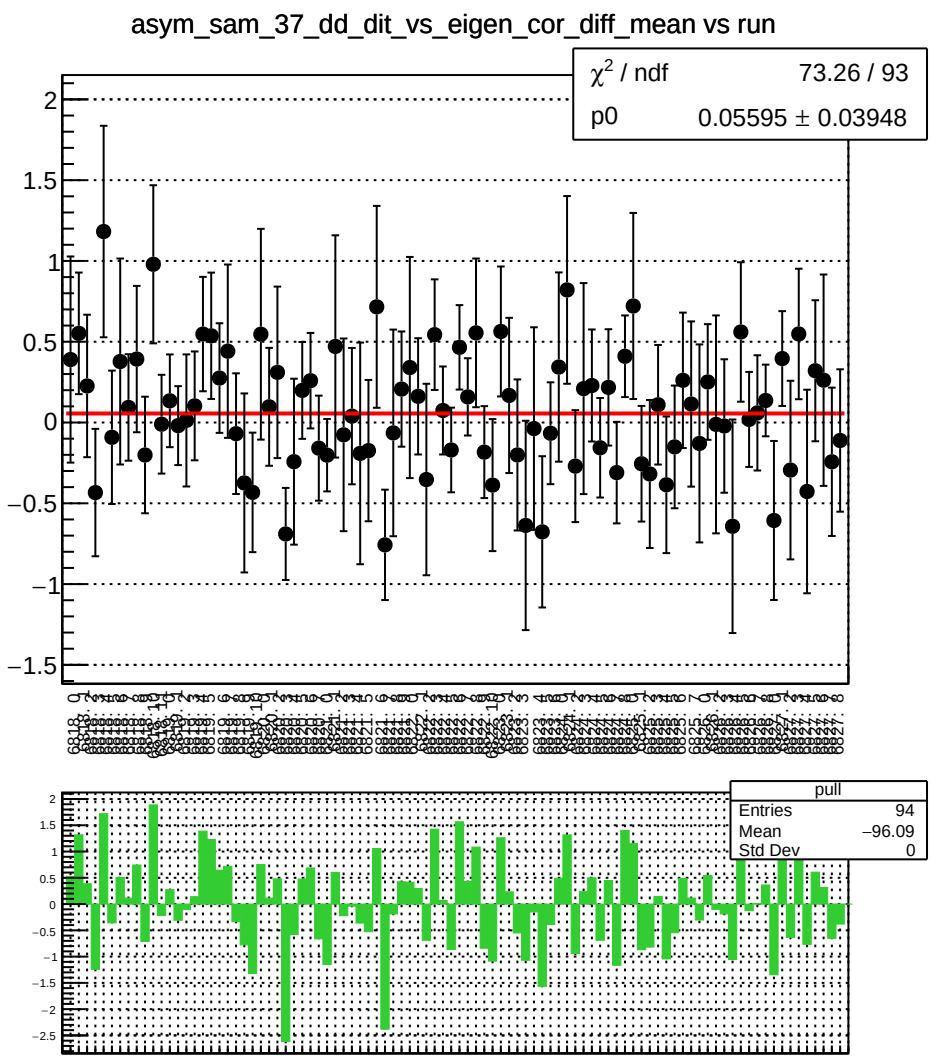

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 93
p0 −1.765e−15 ± 1.048e−14
pull
Entries 94
Mean 8.803
Std Dev 16.61

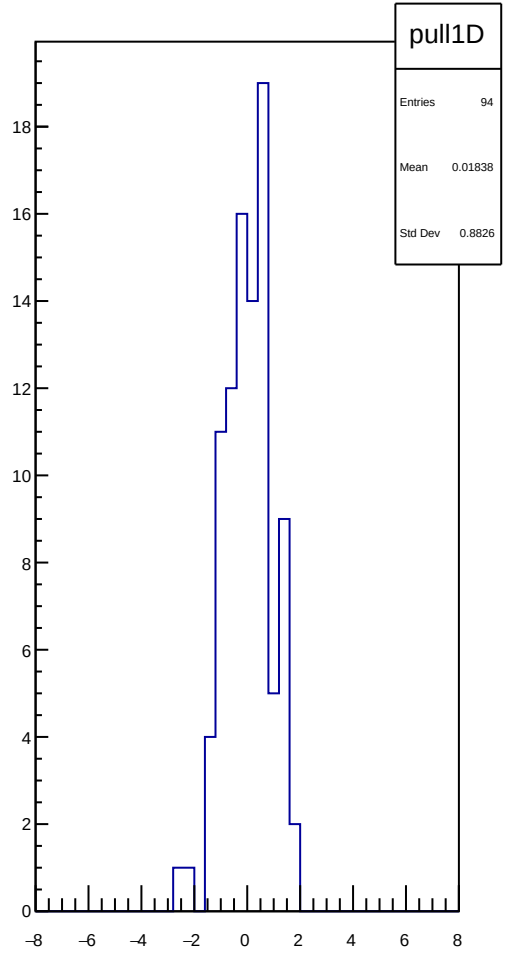

pull1D
Entries 94
Mean 0.05098
Std Dev 0.9748

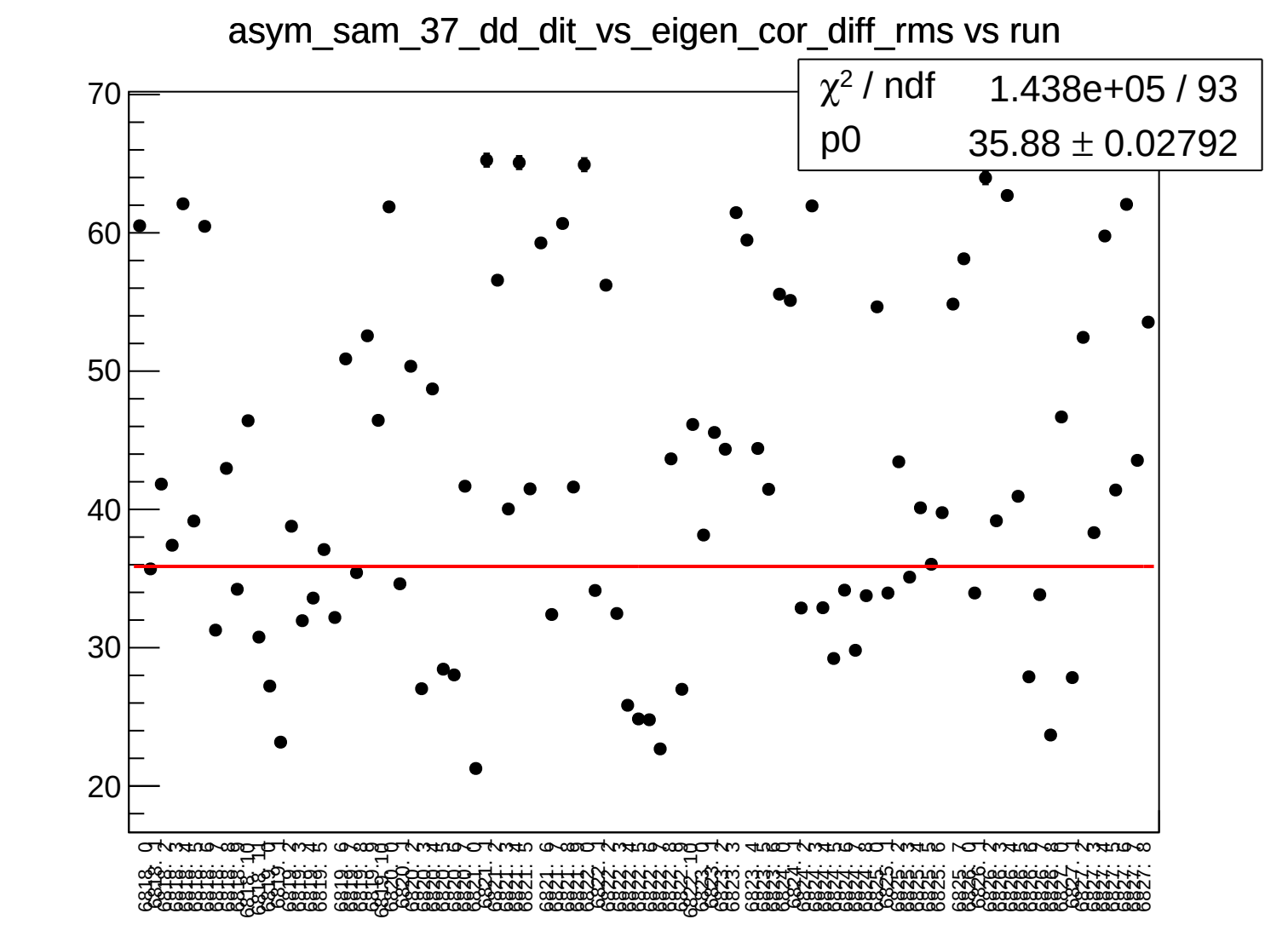

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.248e+06 / 93
p0 5.485e−12 ± 7.413e−15
0.05
0.04
0.03
0.02
0.01
0

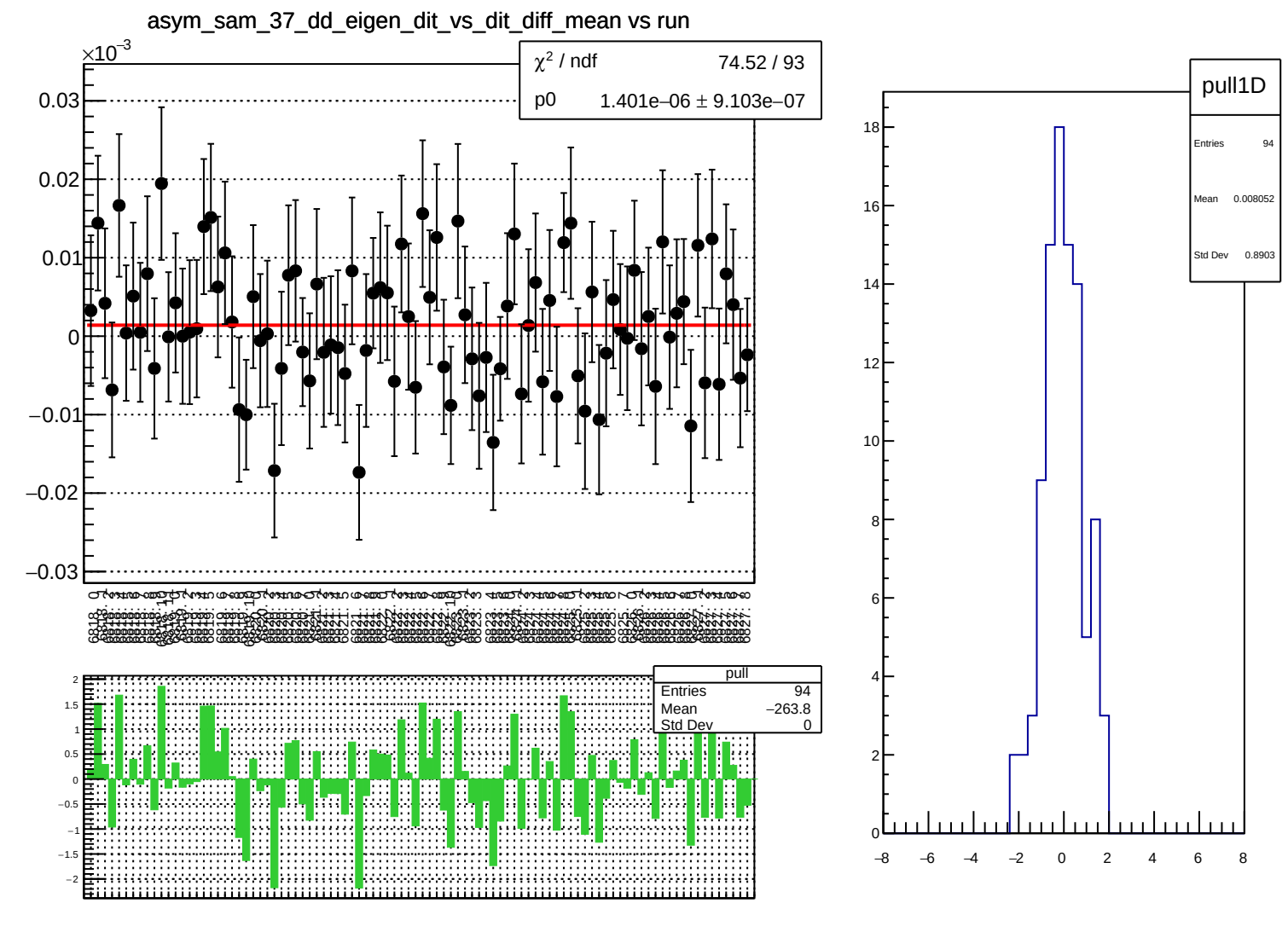

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 93
p0 0.05595 ± 0.03948
pull
Entries 94
Mean −96.09
Std Dev 0
pull1D
Entries 94
Mean 0.01838
Std Dev 0.8826

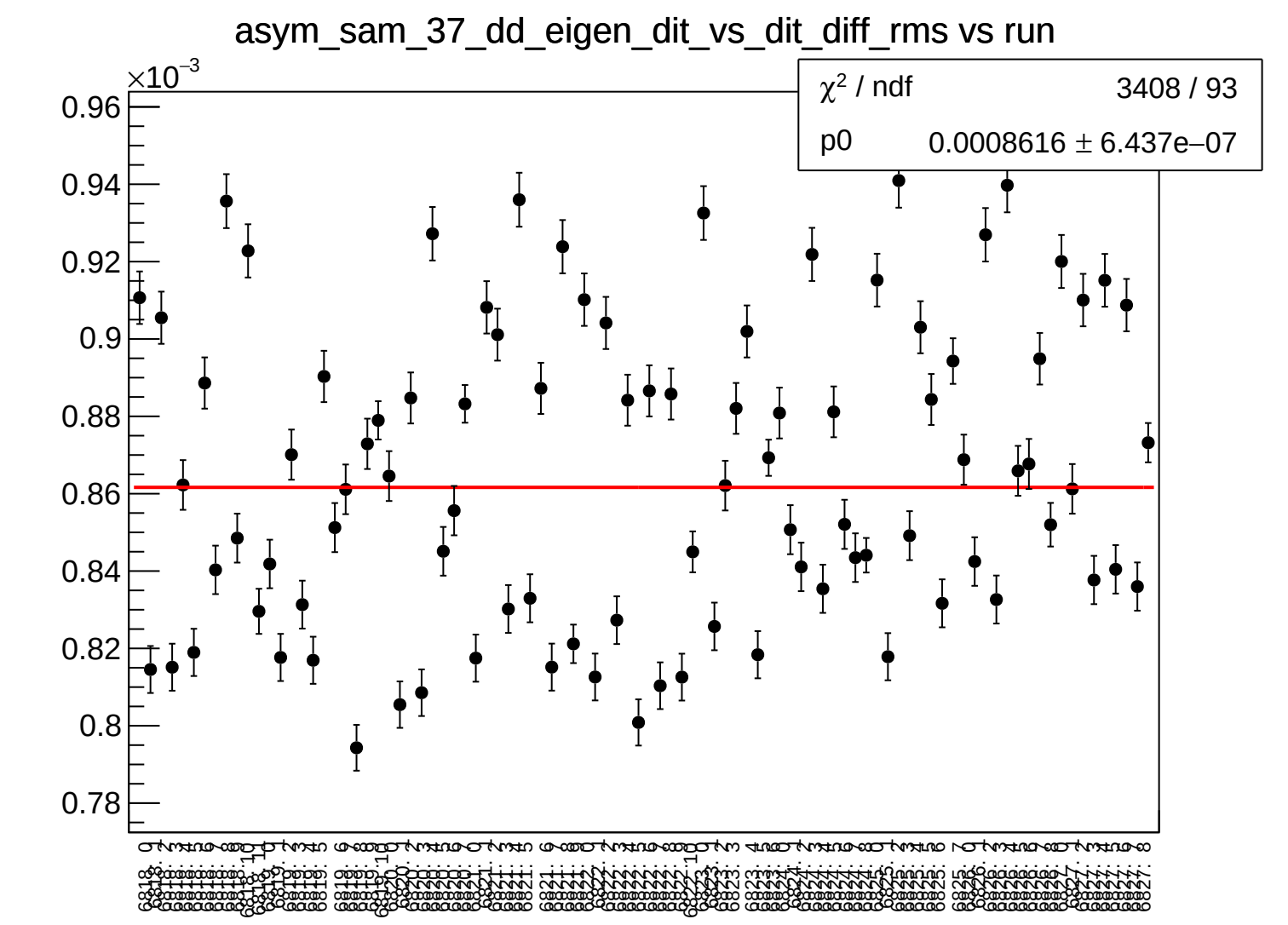

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.438e+05 / 93
p0 35.88 ± 0.02792
70
60
50
40
30
20

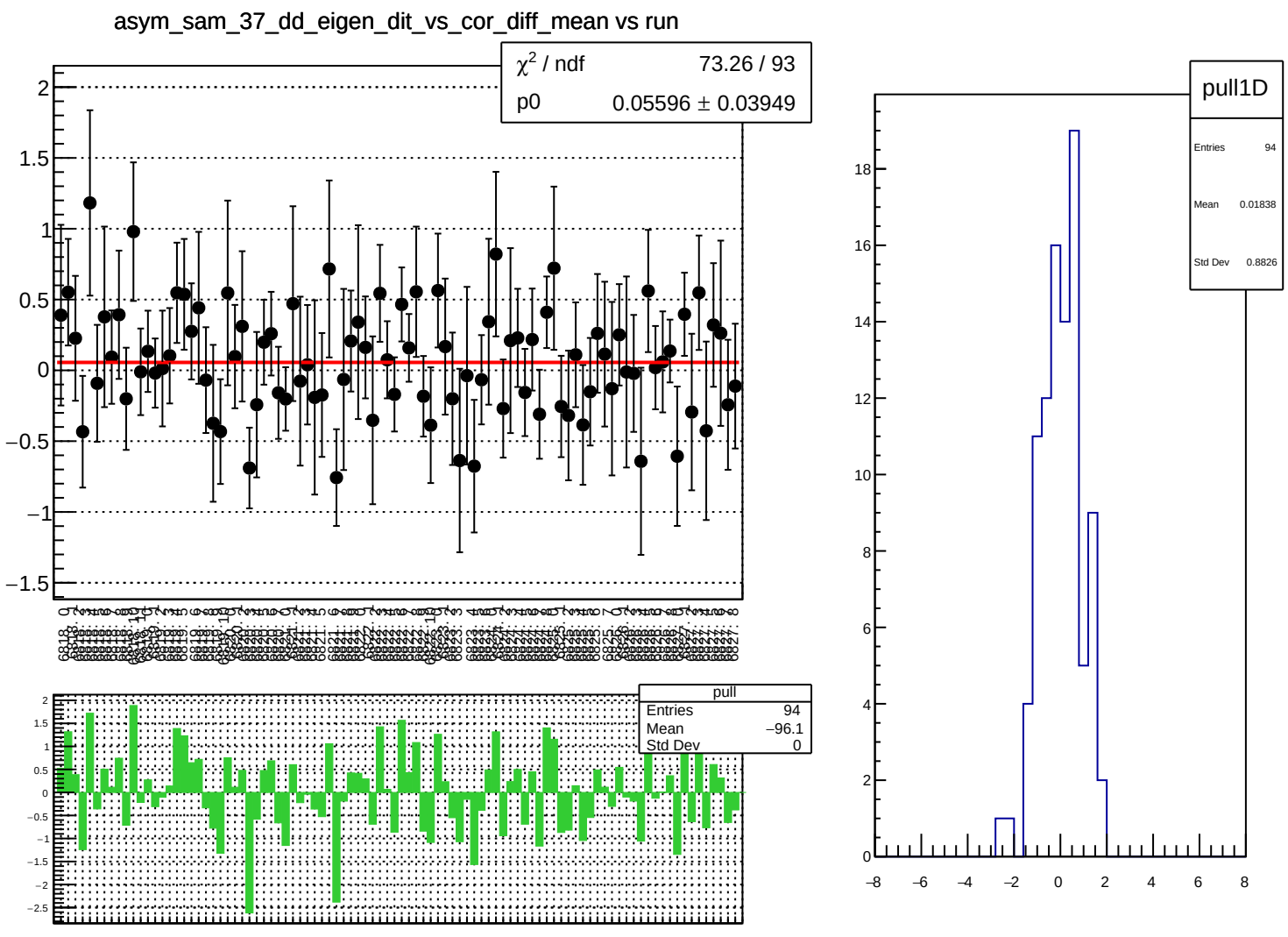

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.26 / 93
p0 0.05595 ± 0.03948
pull
Entries 94
Mean −96.09
Std Dev 0

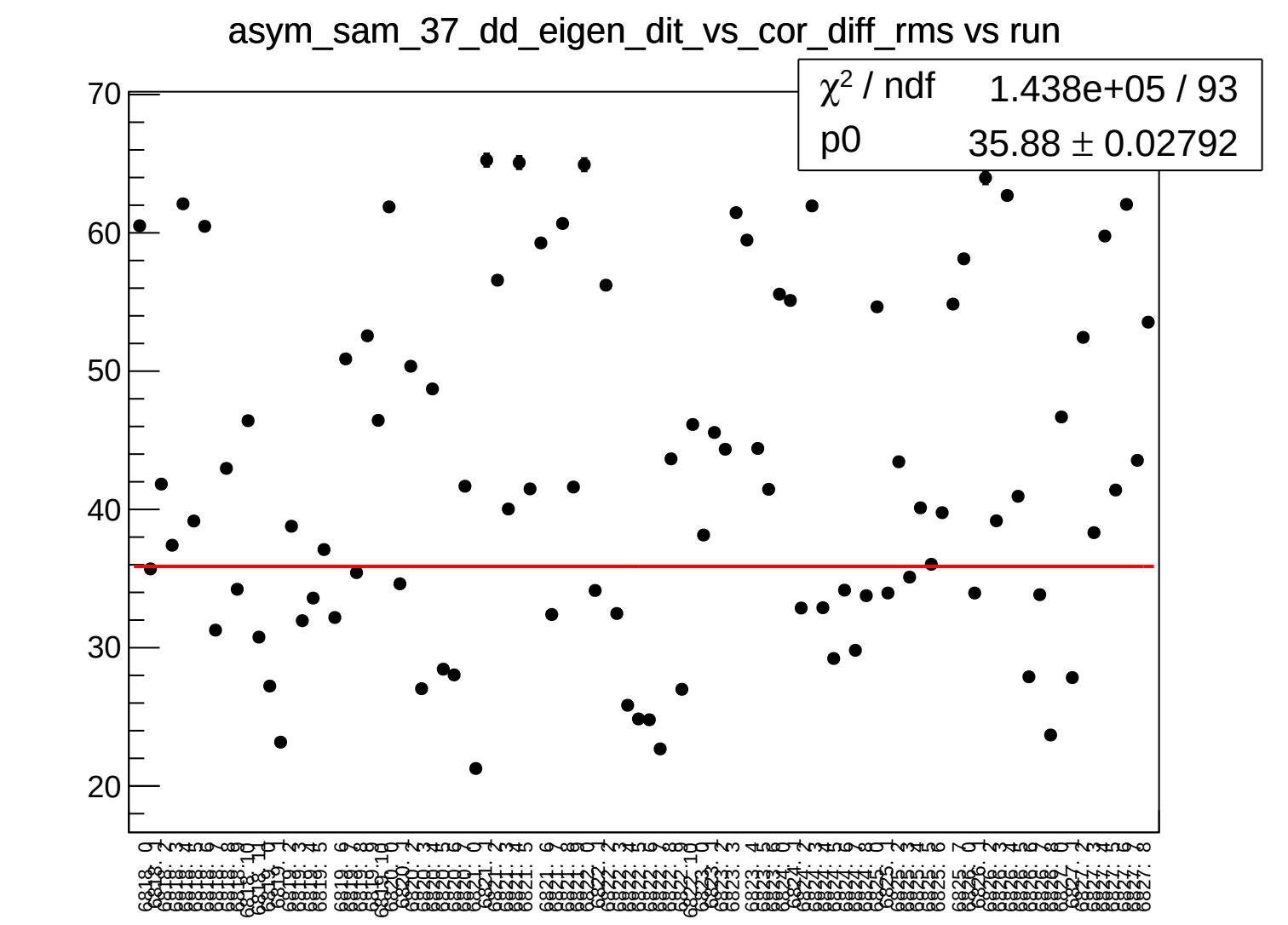

pull1D
Entries 94
Mean 0.01838
Std Dev 0.8826

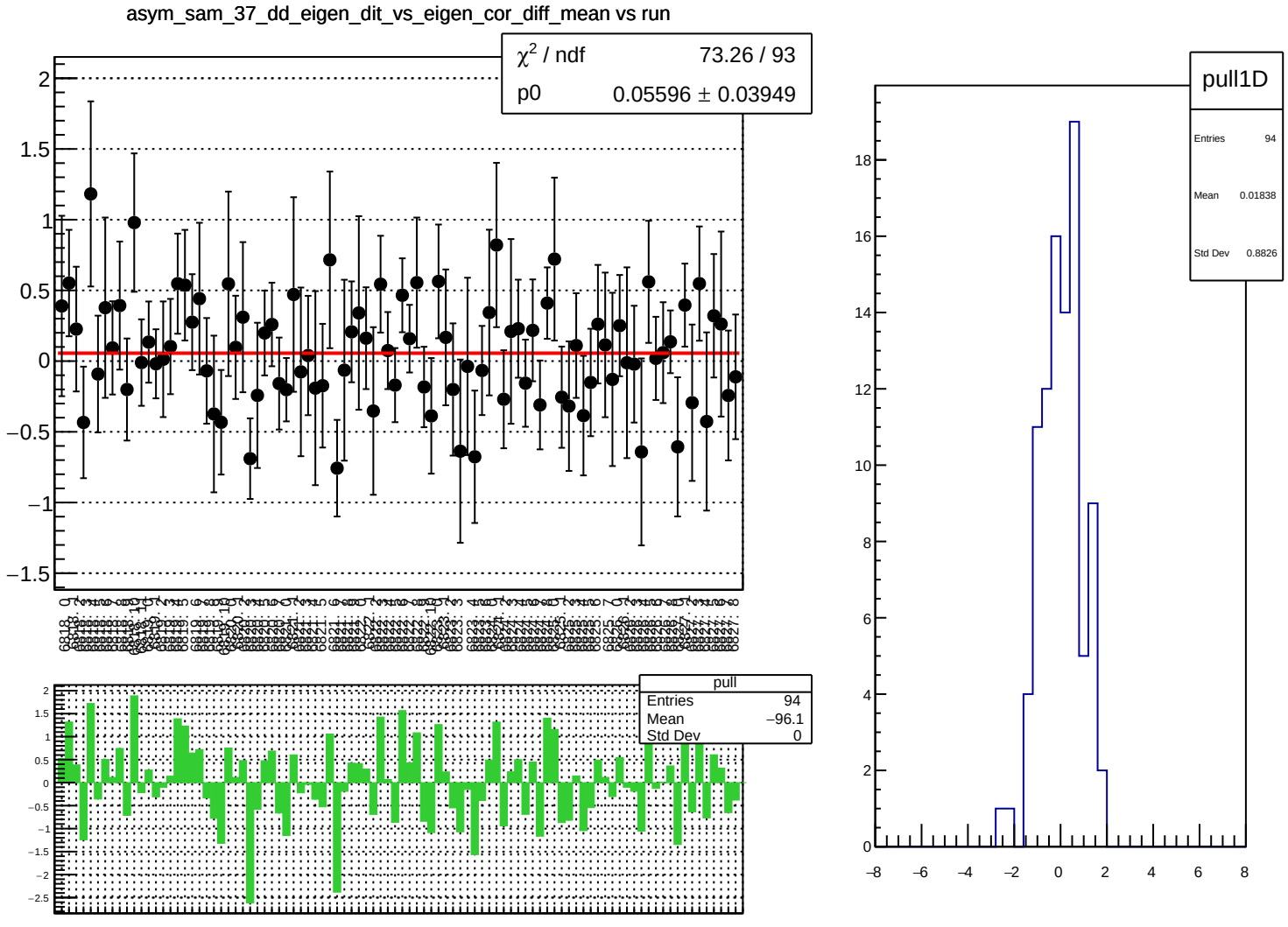

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 93
p0 35.88 ± 0.02792
70
60
50
40
30
20

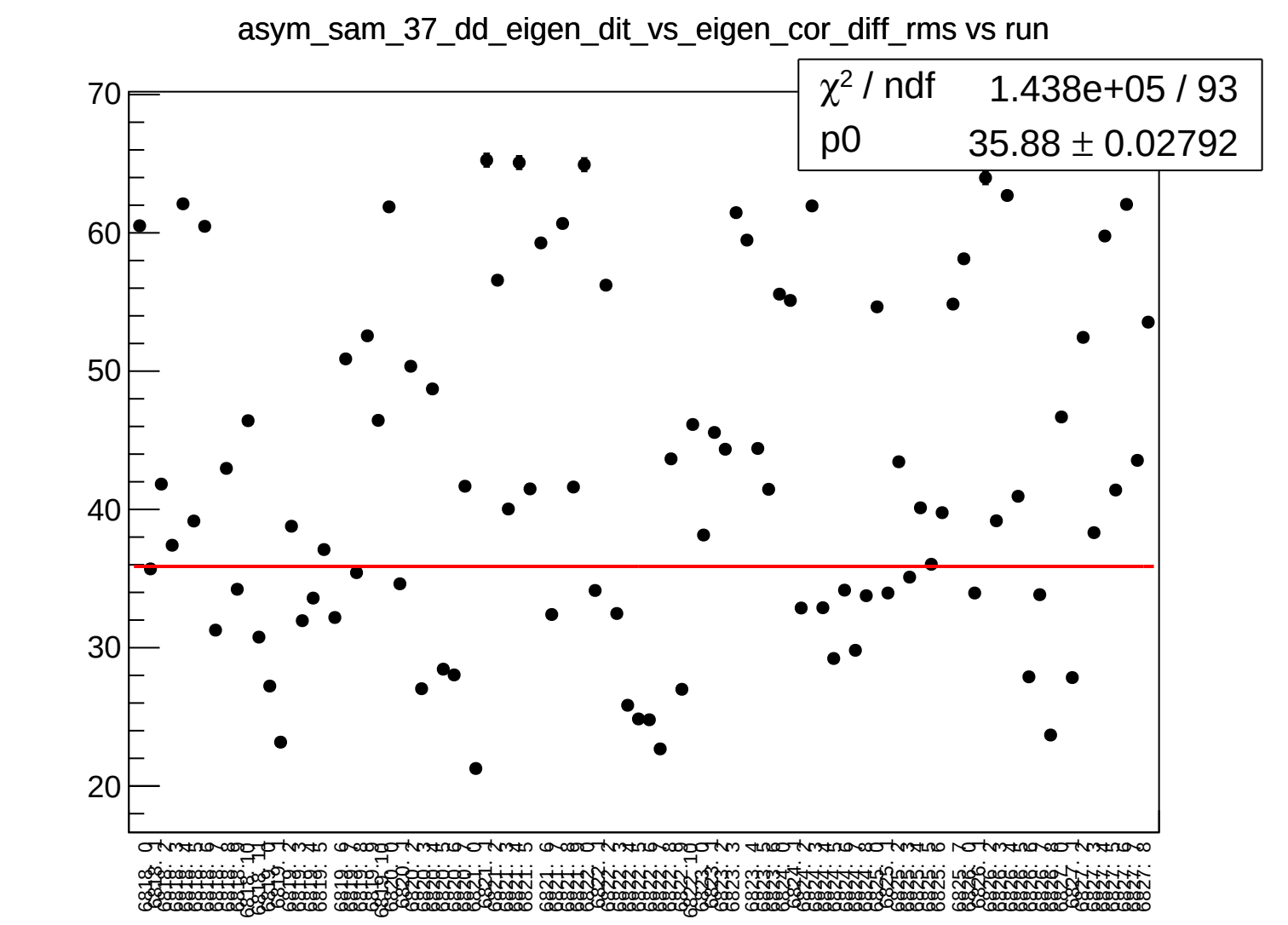

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.52 / 93
p0 1.401e−06 ± 9.103e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean −263.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008052
Std Dev 0.8903
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

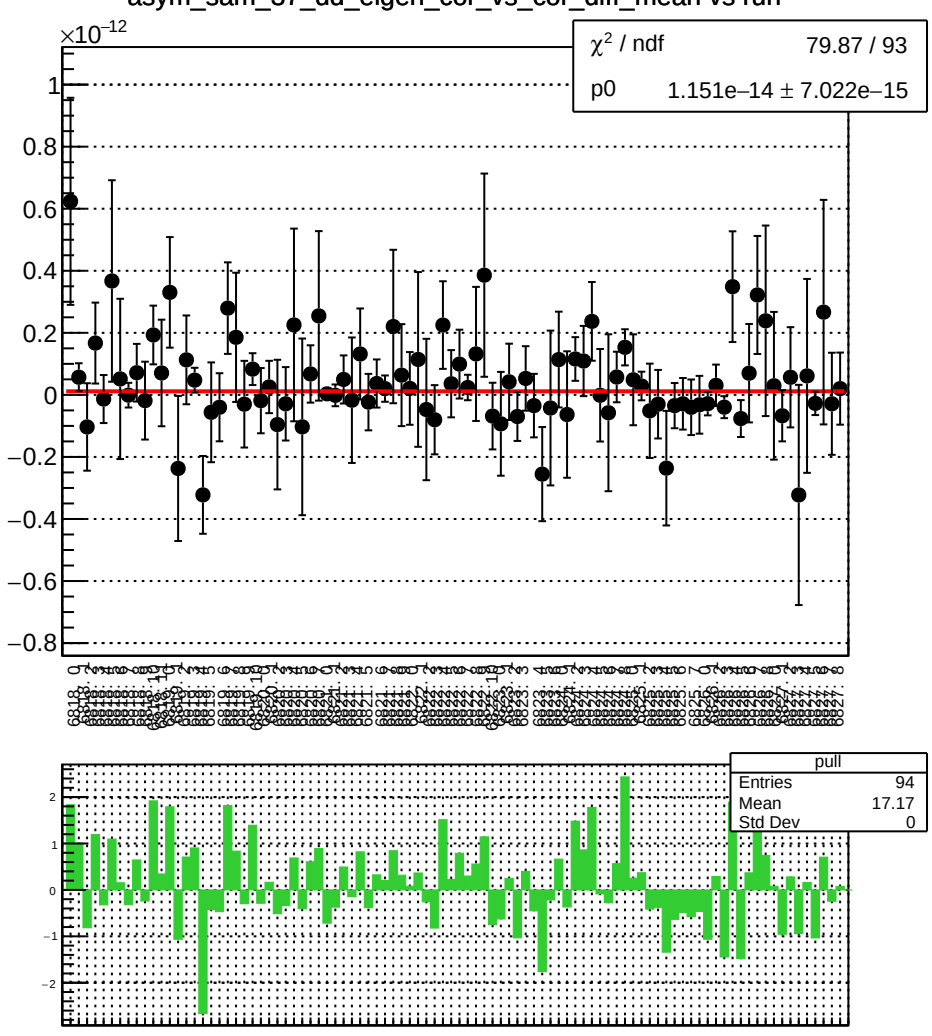

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3408 / 93
p0 0.0008616 ± 6.437e−07
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78

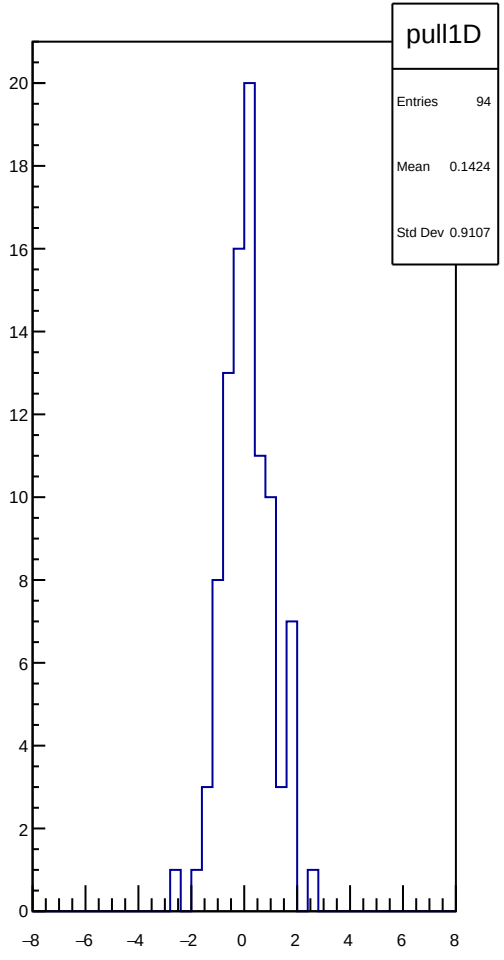

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.26 / 93
p0 0.05596 ± 0.03949
pull
Entries 94
Mean −96.1
Std Dev 0
pull1D
Entries 94
Mean 0.01838
Std Dev 0.8826

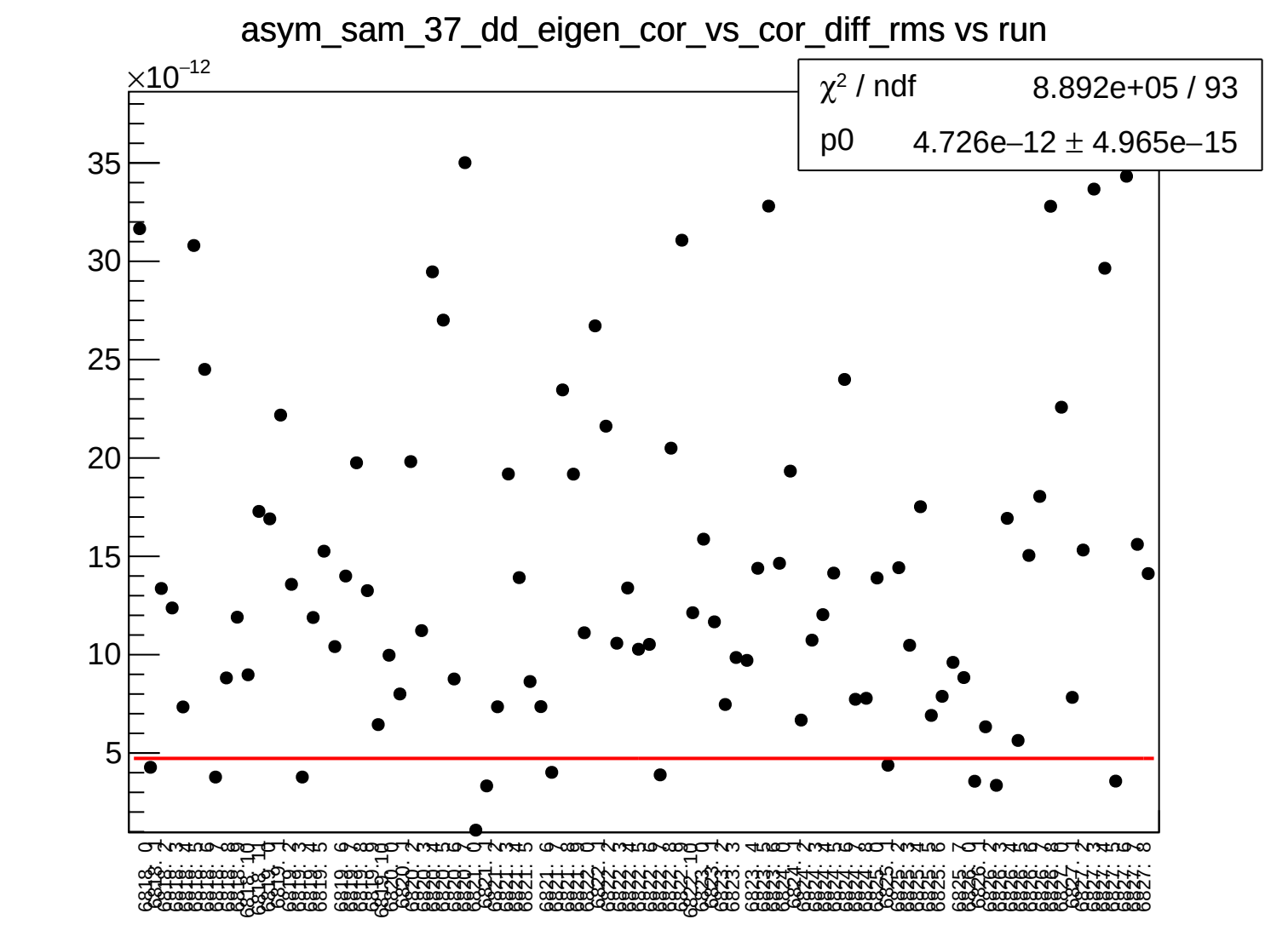

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 93
p0 35.88 ± 0.02792
70
60
50
40
30
20

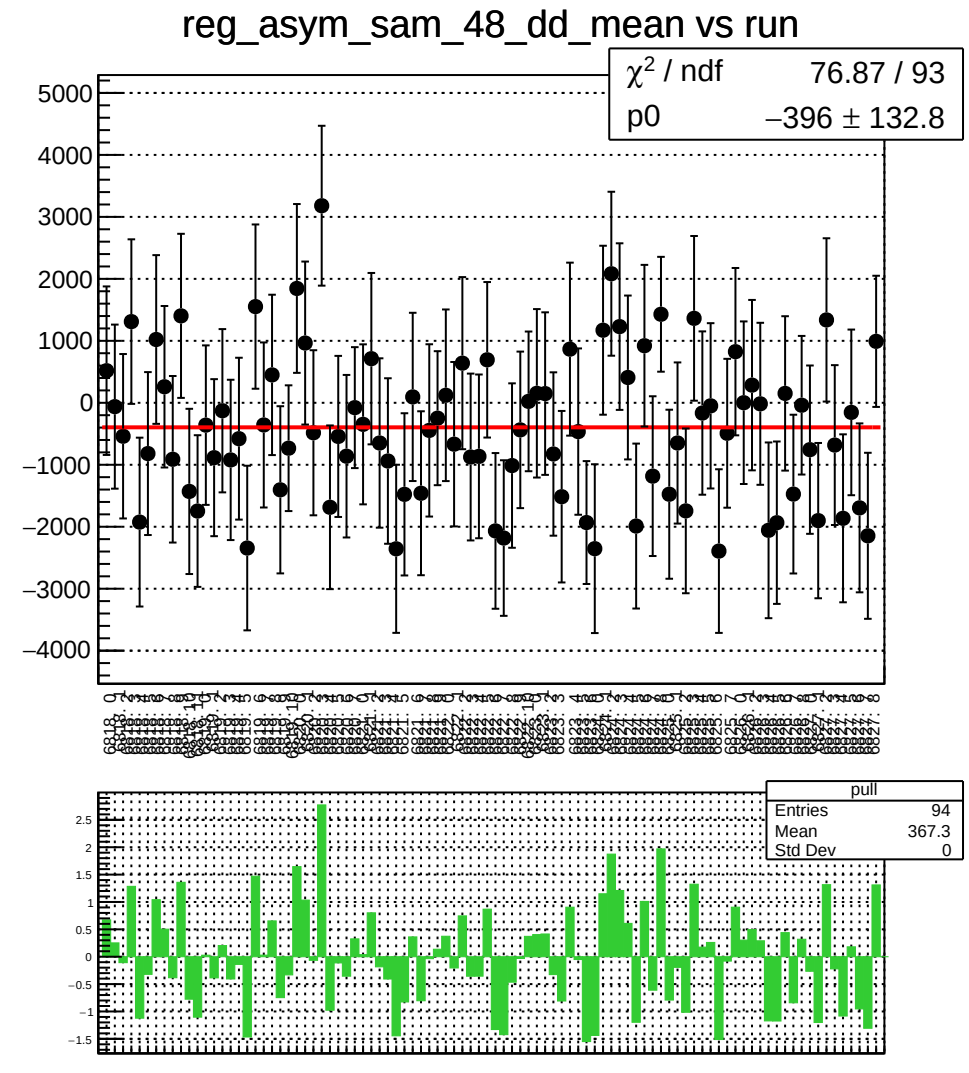

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.26 / 93
p0 0.05596 ± 0.03949
pull
Entries 94
Mean −96.1
Std Dev 0
pull1D
Entries 94
Mean 0.01838
Std Dev 0.8826

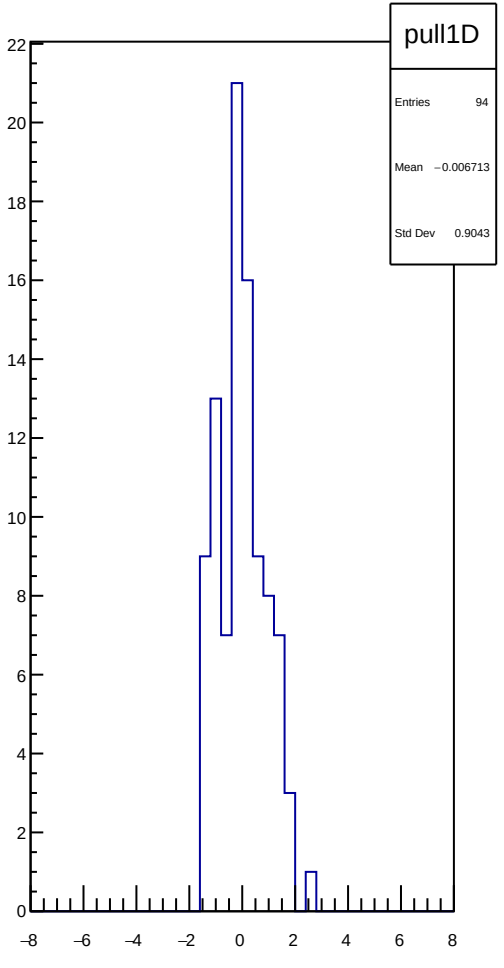

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.438e+05 / 93
p0 35.88 ± 0.02792
70
60
50
40
30
20

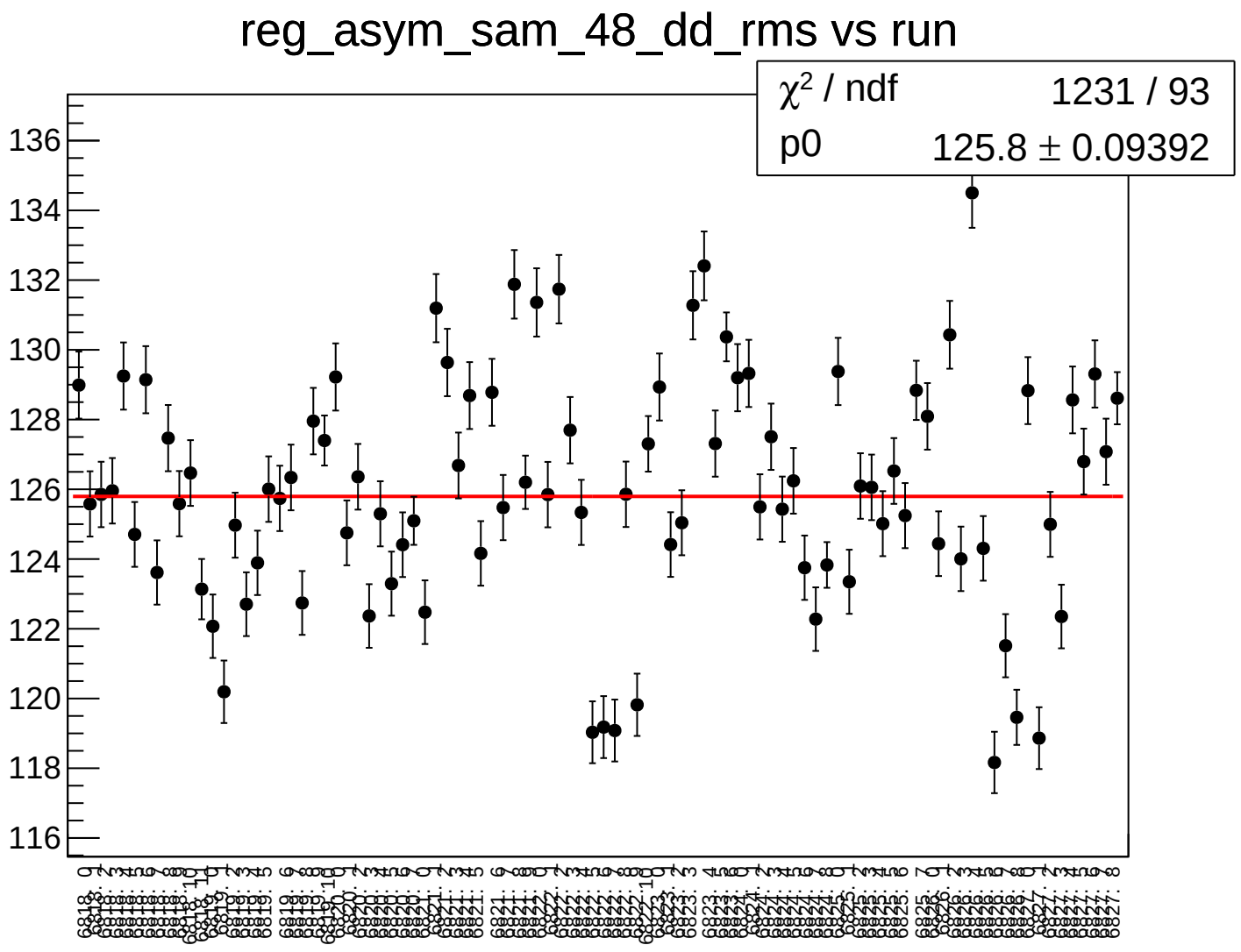

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.87 / 93
p0 1.151e−14 ± 7.022e−15
pull
Entries 94
Mean 17.17
Std Dev 0

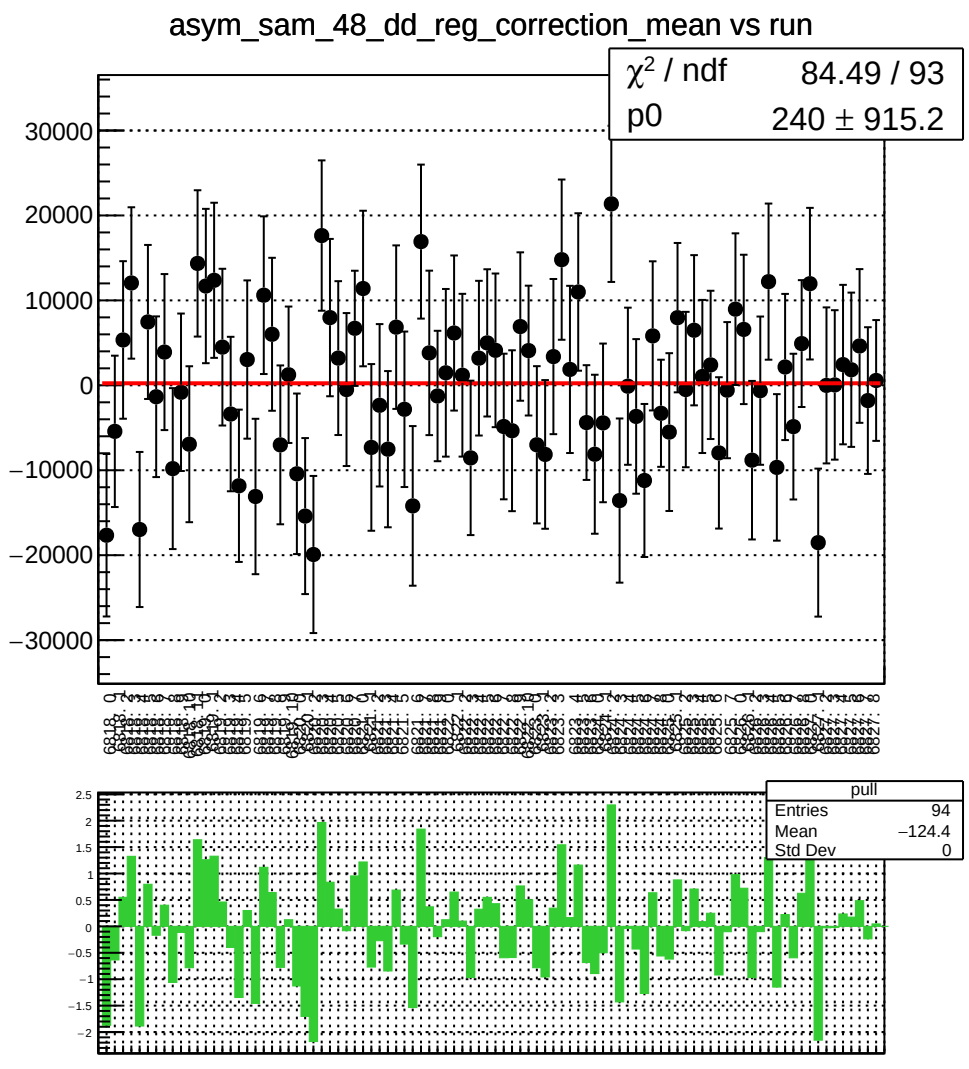

pull1D
Entries 94
Mean 0.1424
Std Dev 0.9107

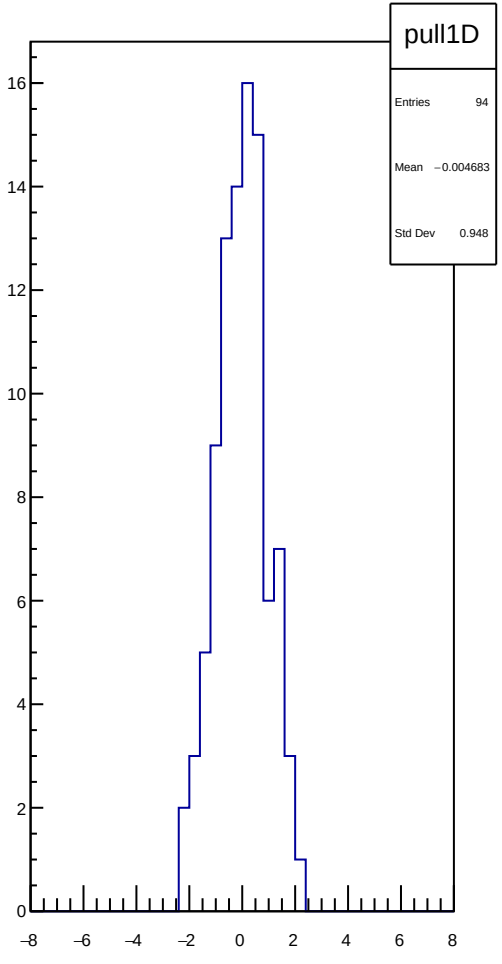

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.892e+05 / 93
p0 4.726e−12 ± 4.965e−15
35
30
25
20
15
10
5

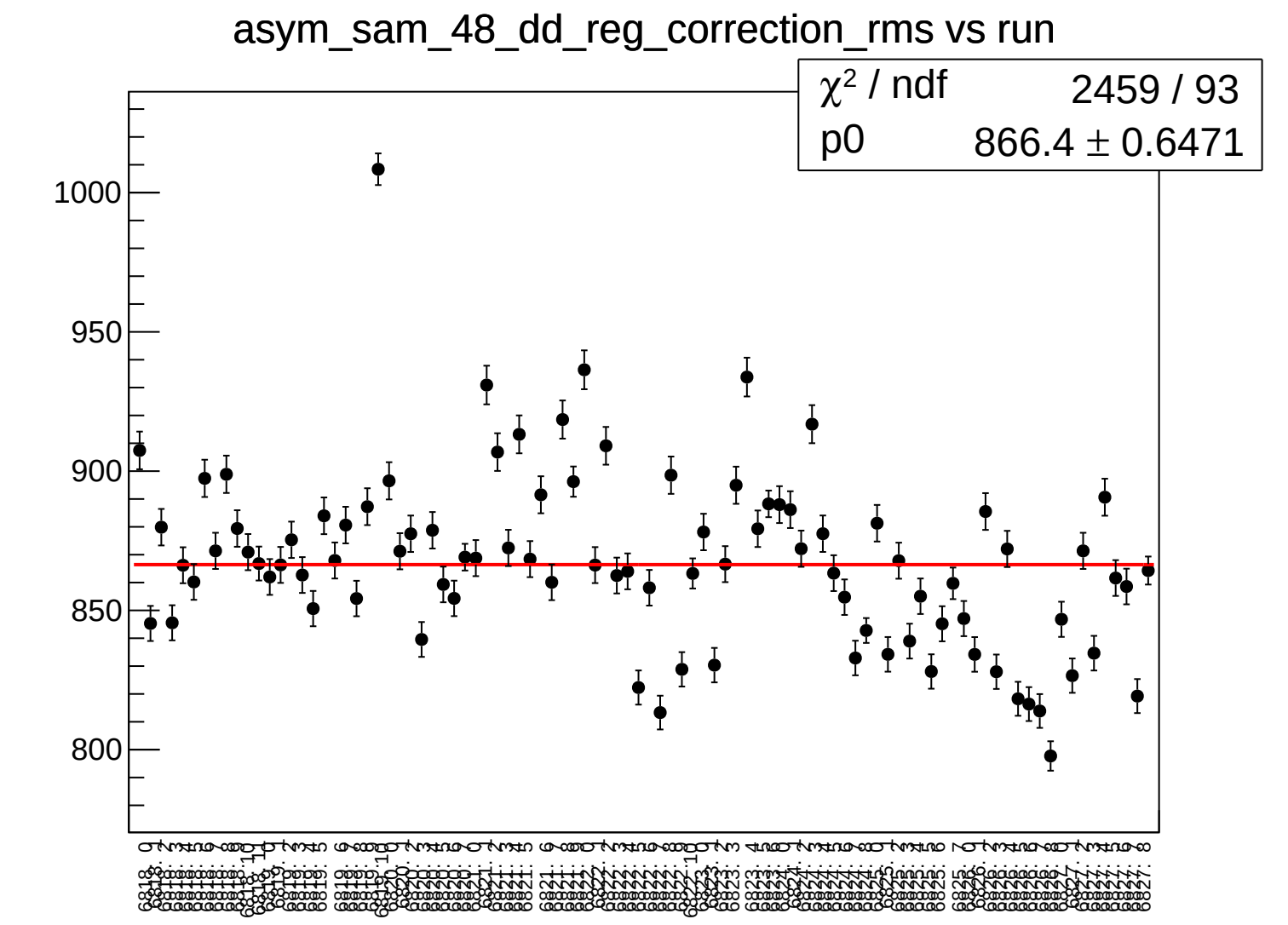

reg_asym_sam_48_dd_mean vs run
χ² / ndf 76.87 / 93
p0 −396 ± 132.8
pull
Entries 94
Mean 367.3
Std Dev 0

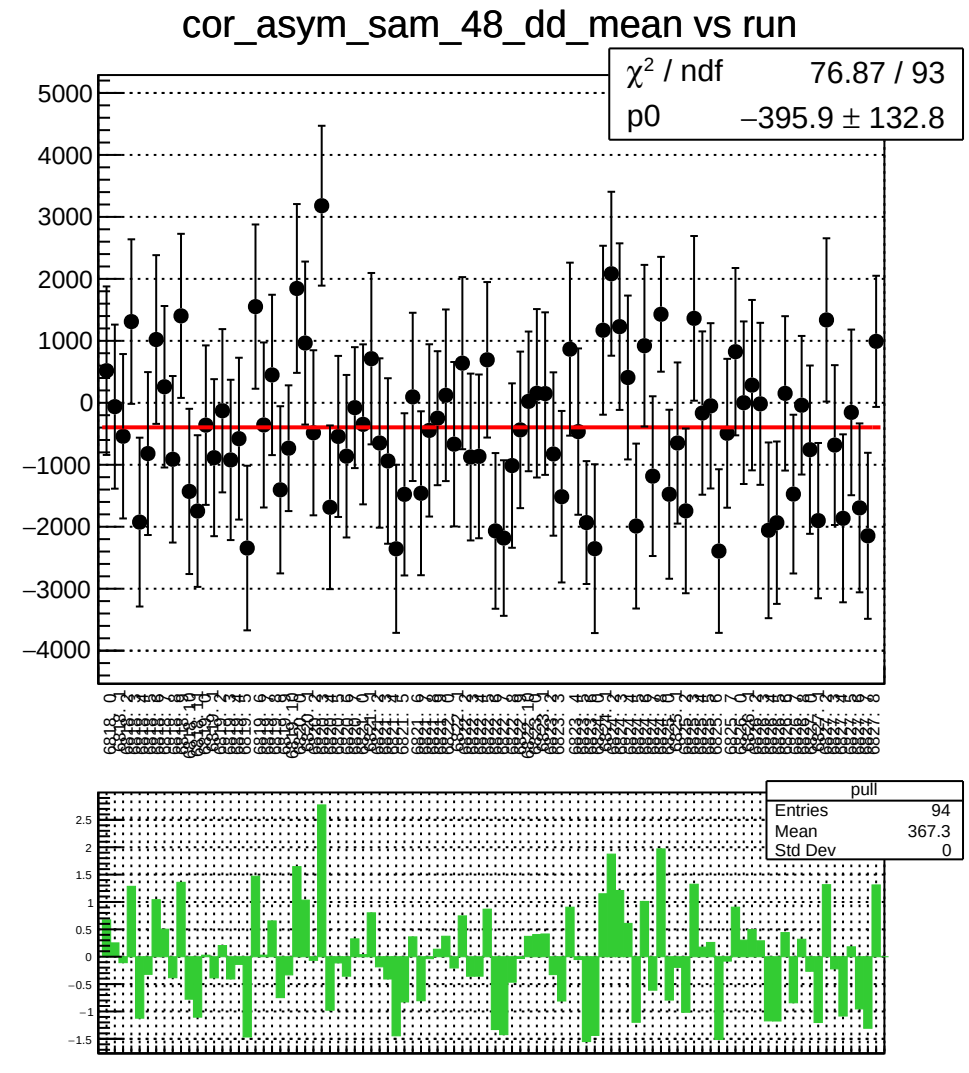

pull1D
Entries 94
Mean −0.006713
Std Dev 0.9043

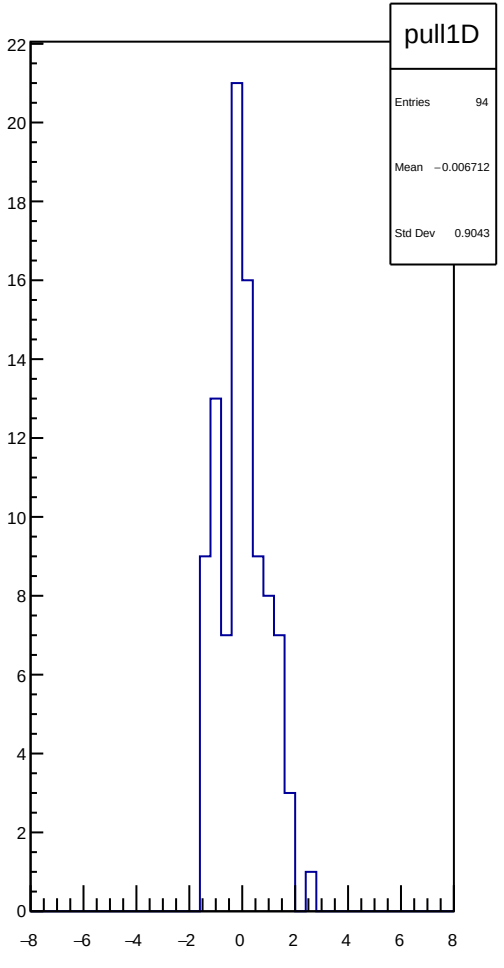

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1231 / 93
p0 125.8 ± 0.09392
136
134
132
130
128
126
124
122
120
118
116

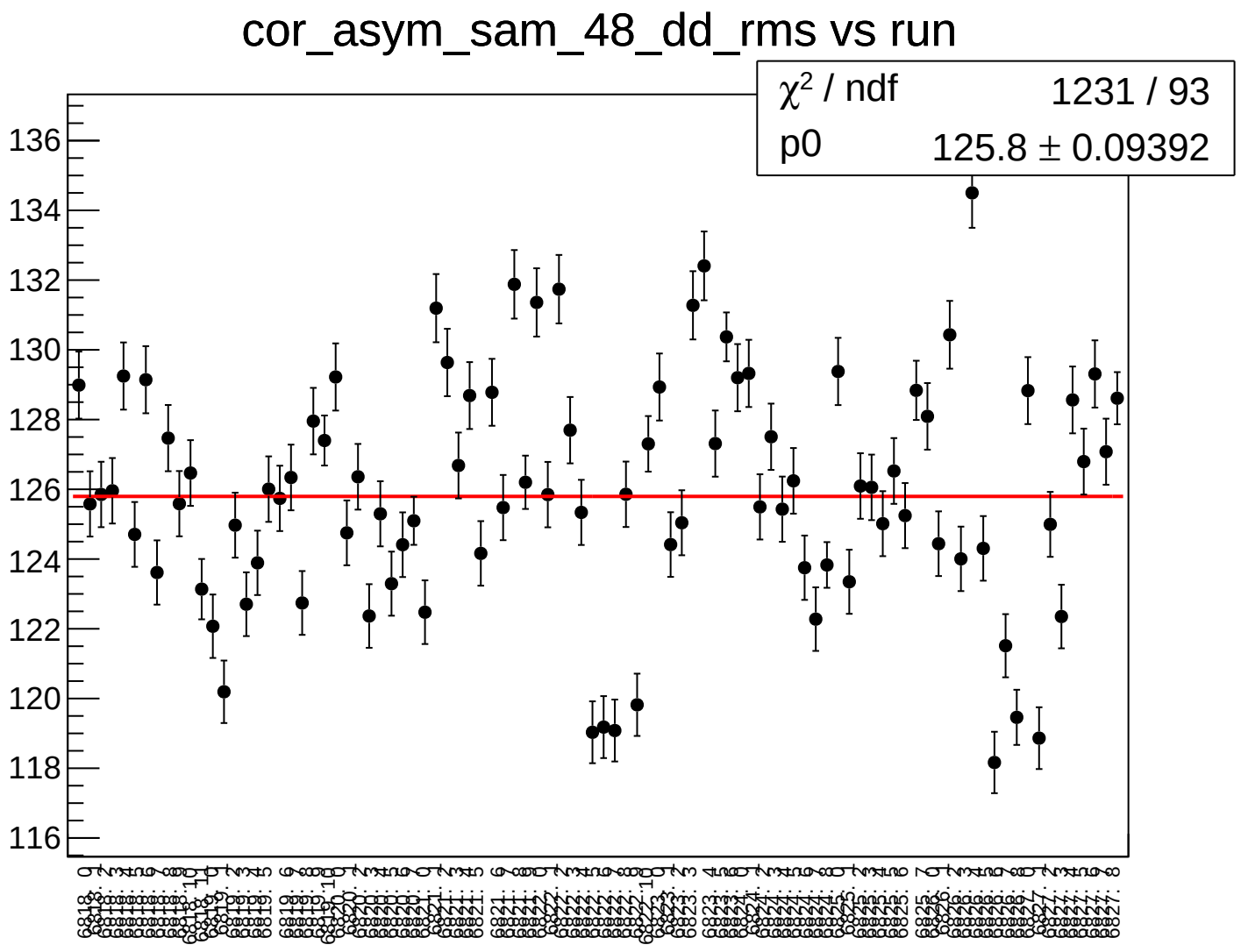

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 84.49 / 93
p0 240 ± 915.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −124.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

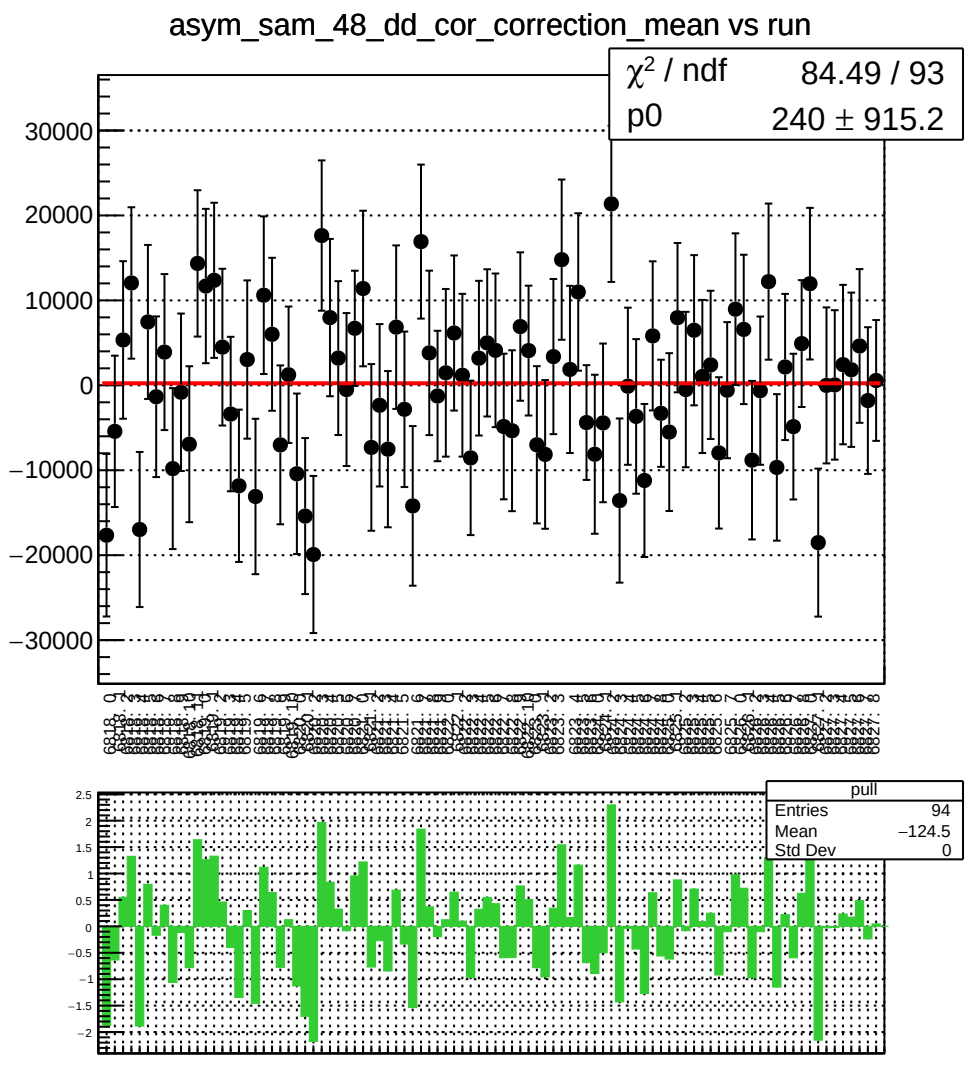

pull1D
Entries 94
Mean −0.004683
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

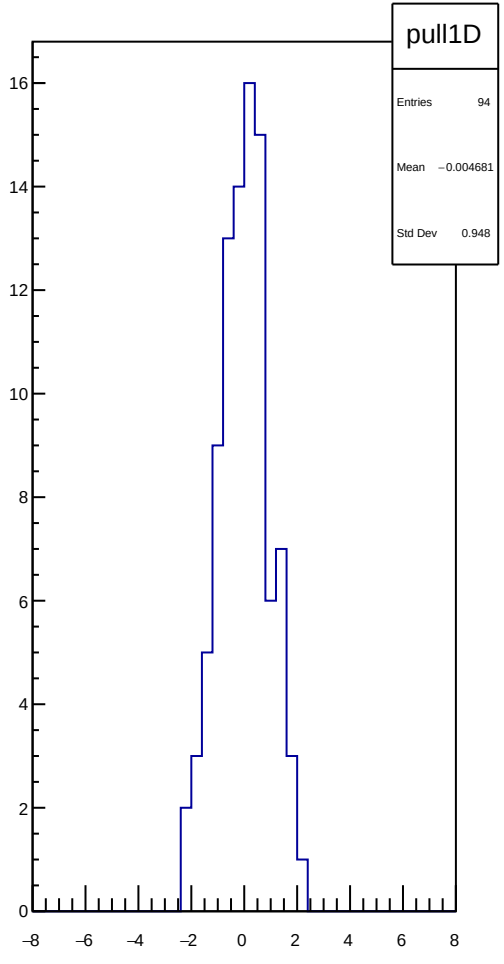

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2459 / 93
p0 866.4 ± 0.6471
1000
950
900
850
800

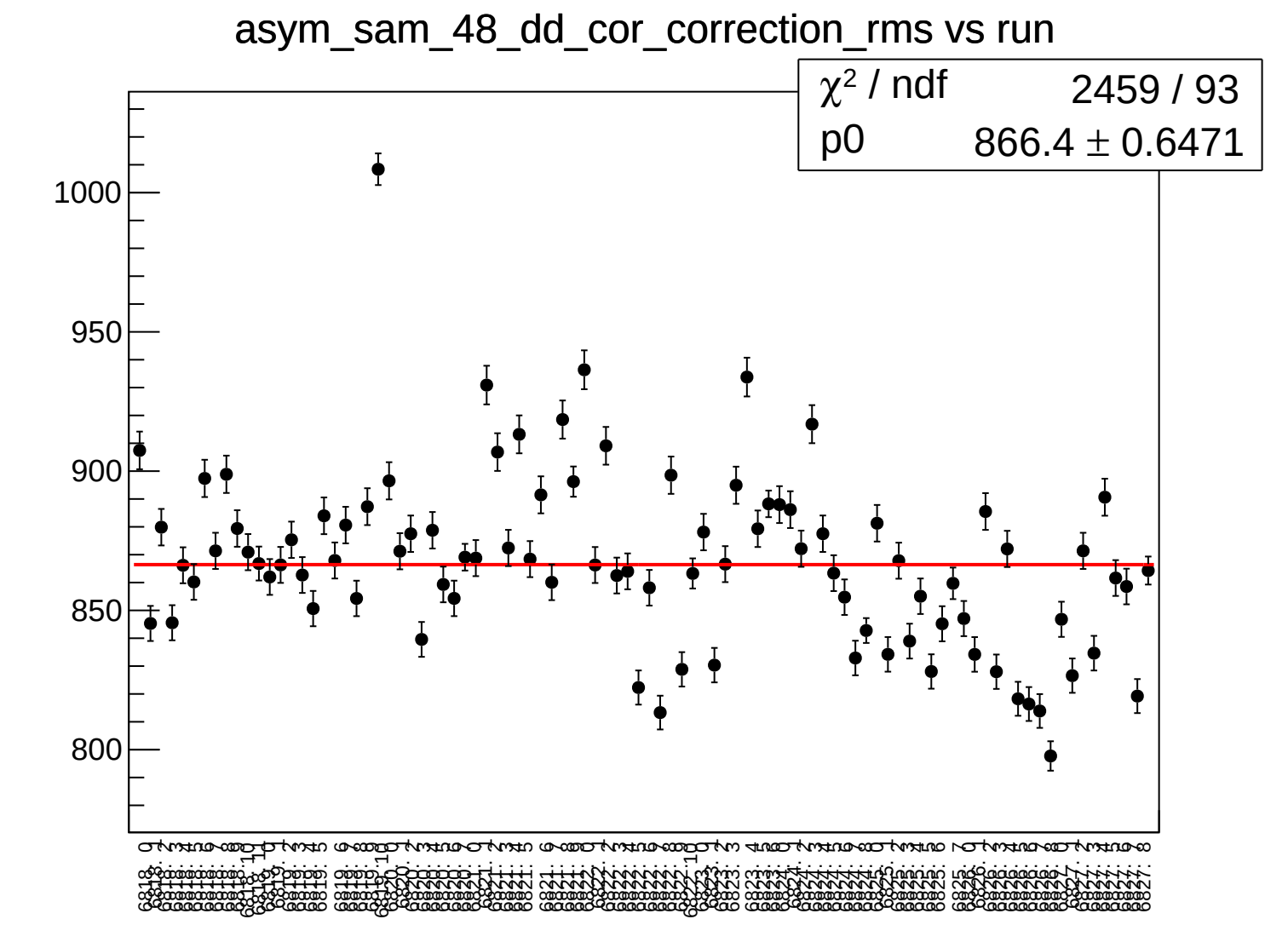

cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.87 / 93
p0 −395.9 ± 132.8
pull
Entries 94
Mean 367.3
Std Dev 0

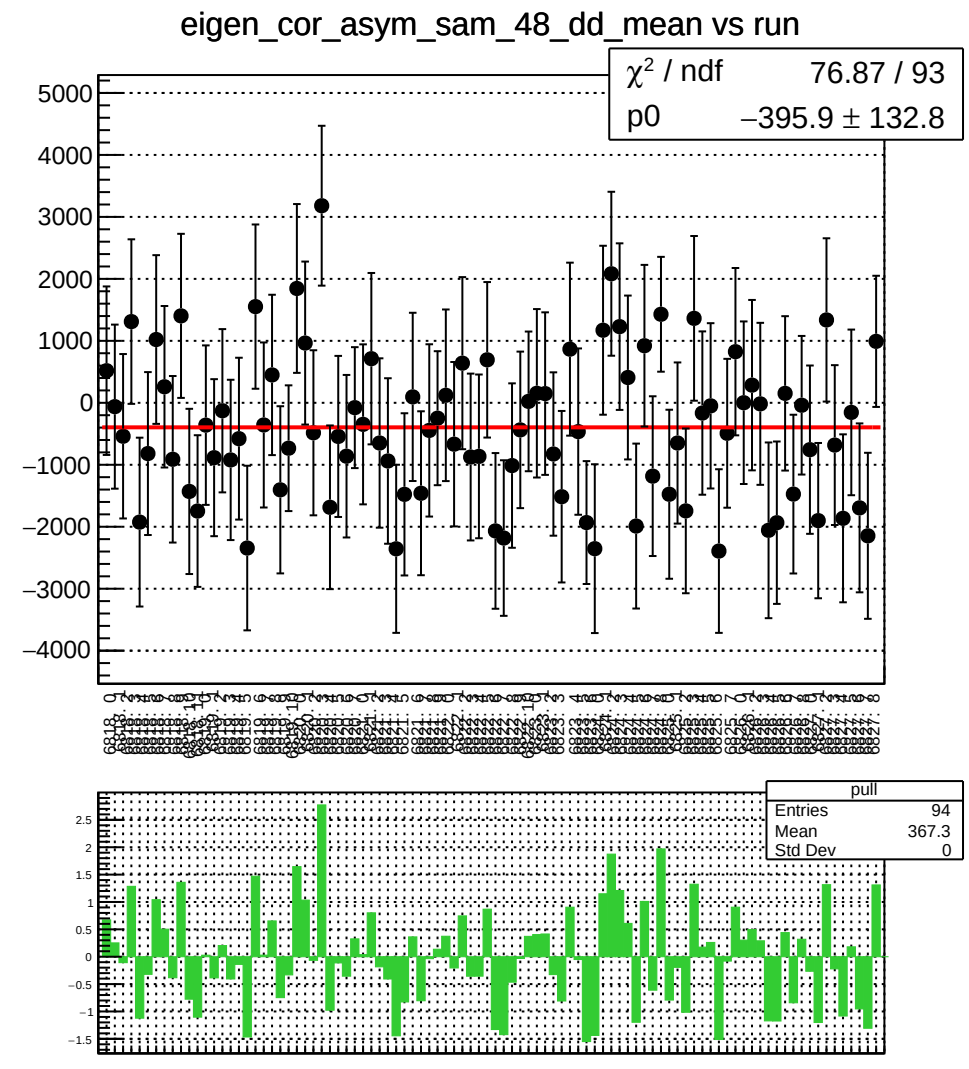

pull1D
Entries 94
Mean −0.006712
Std Dev 0.9043

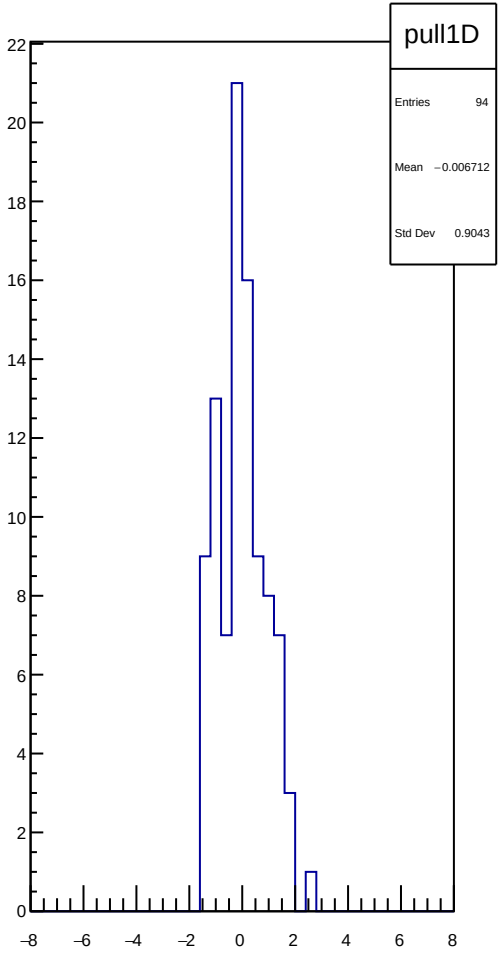

cor_asym_sam_48_dd_rms vs run
χ² / ndf 1231 / 93
p0 125.8 ± 0.09392
136
134
132
130
128
126
124
122
120
118
116

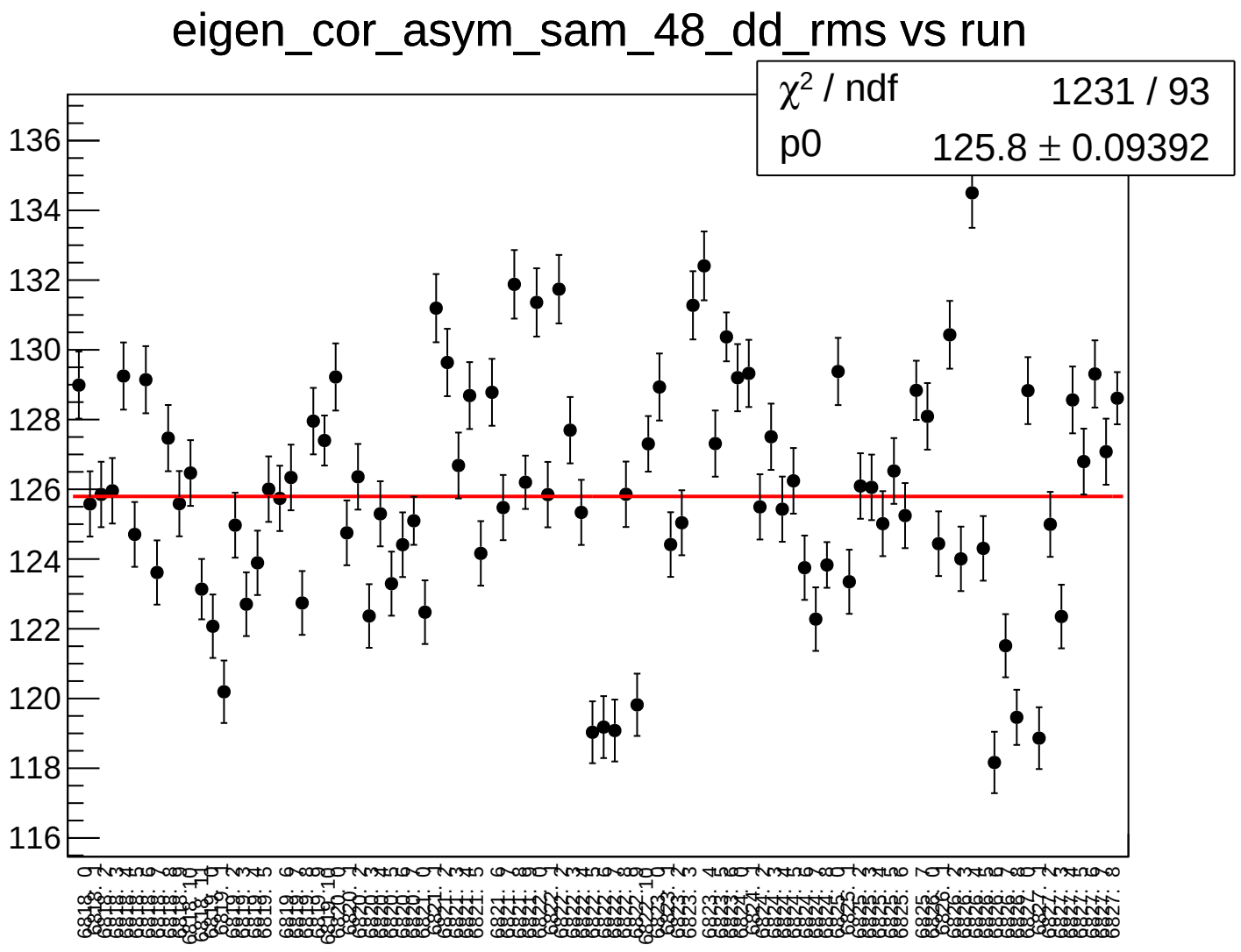

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 84.49 / 93
p0 240 ± 915.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −124.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

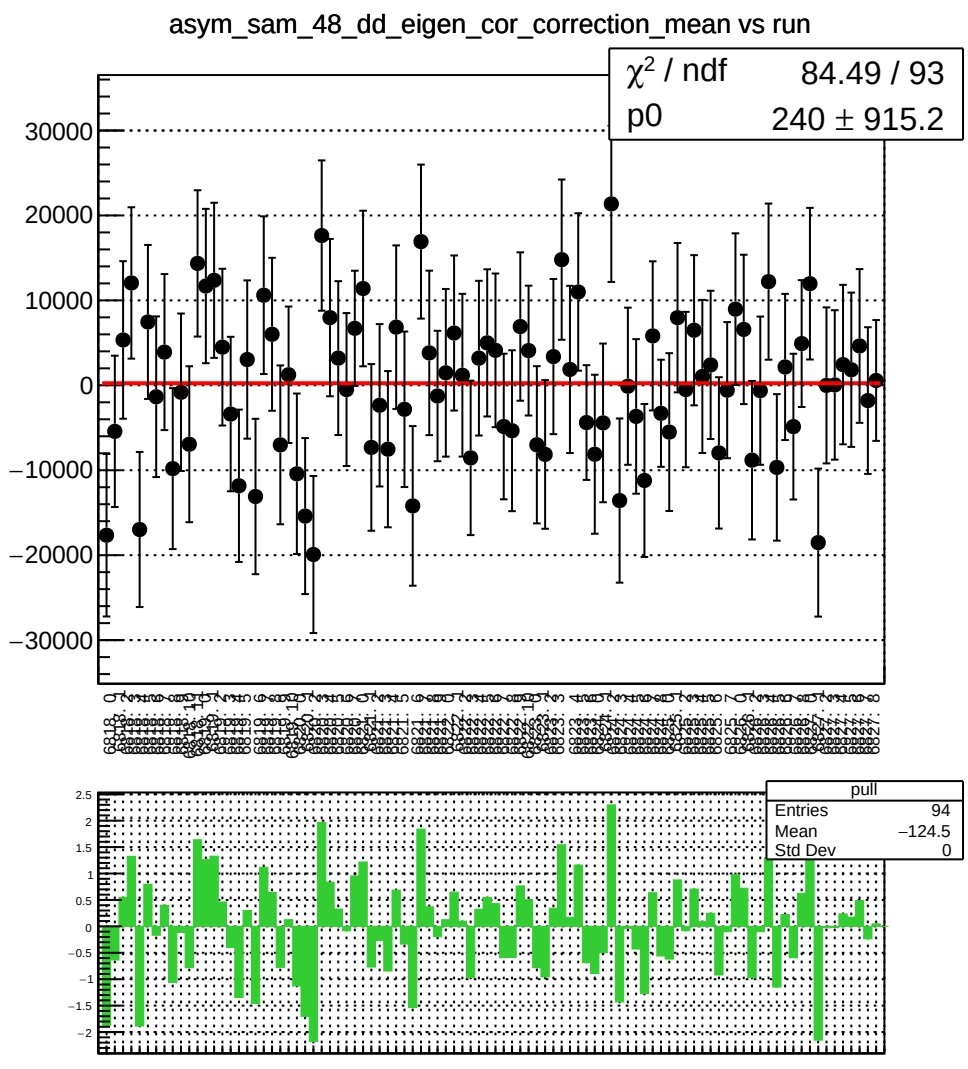

pull1D
Entries 94
Mean −0.004681
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

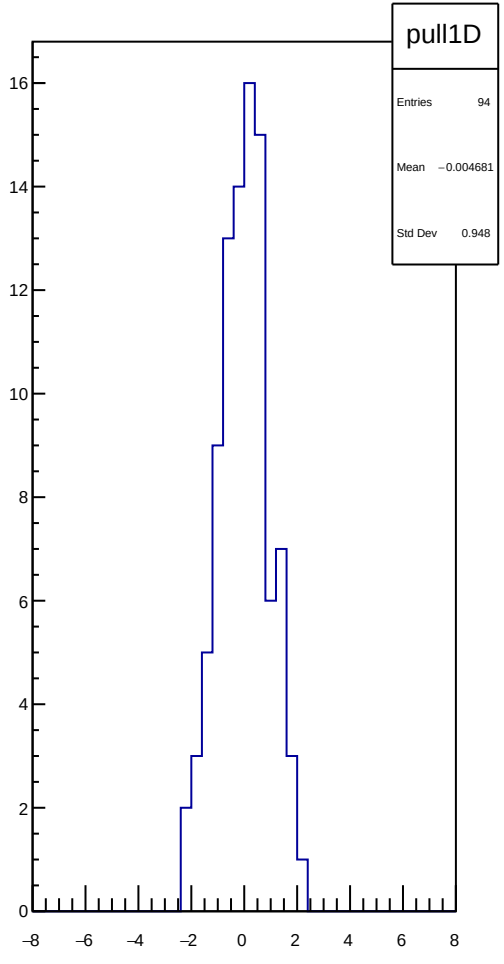

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2459 / 93
p0 866.4 ± 0.6471
1000
950
900
850
800

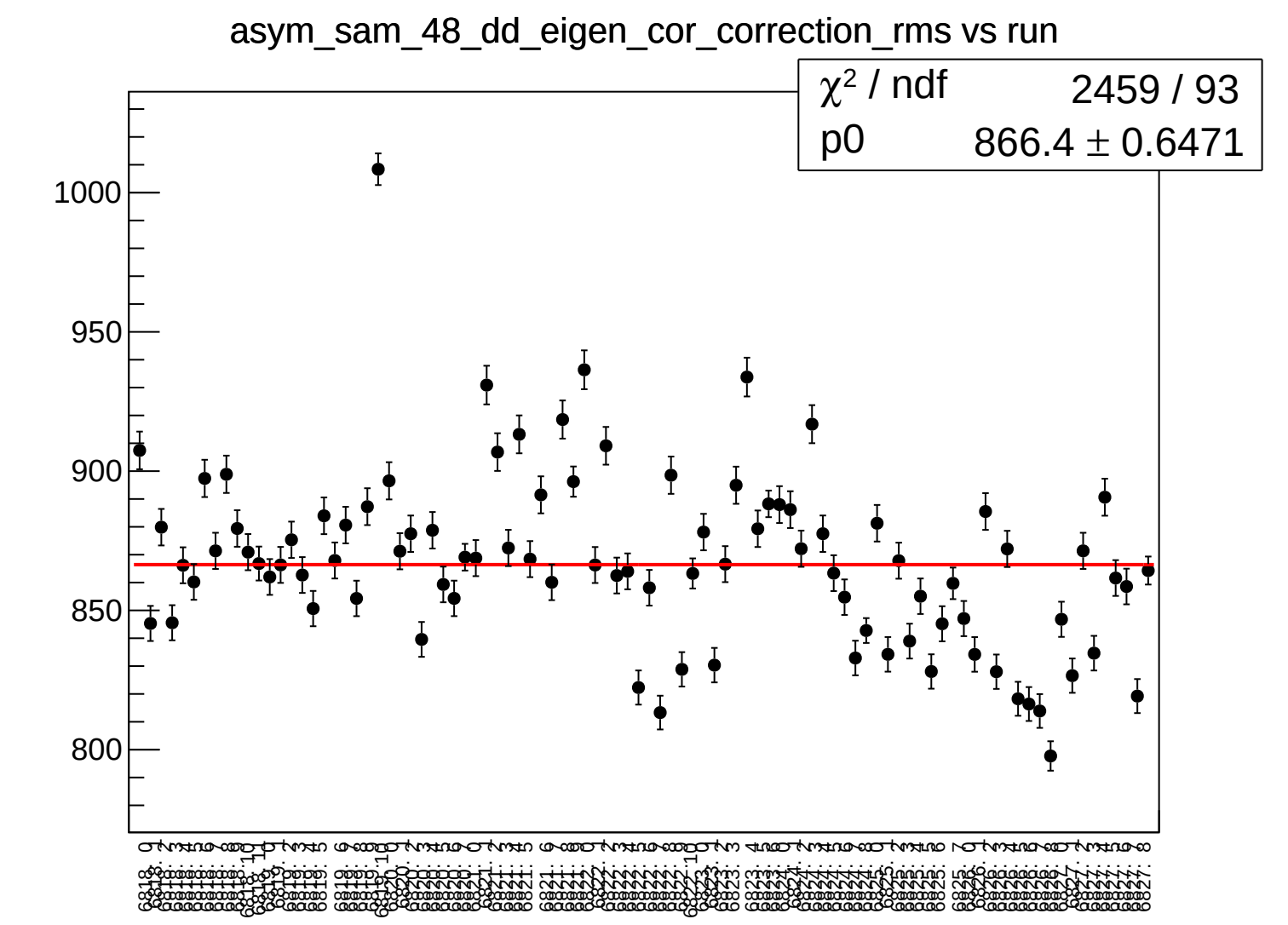

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 76.87 / 93
p0 −395.9 ± 132.8
pull
Entries 94
Mean 367.3
Std Dev 0

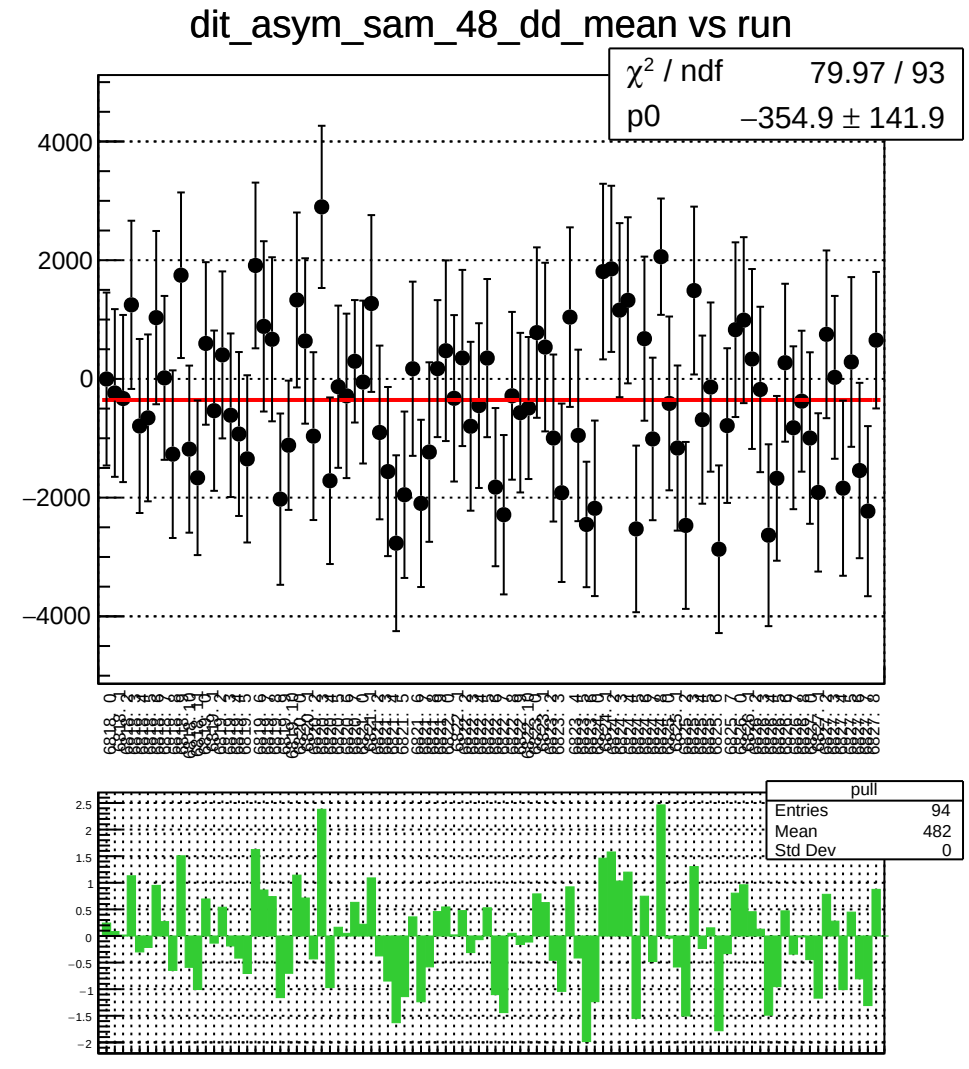

pull1D
Entries 94
Mean −0.006712
Std Dev 0.9043

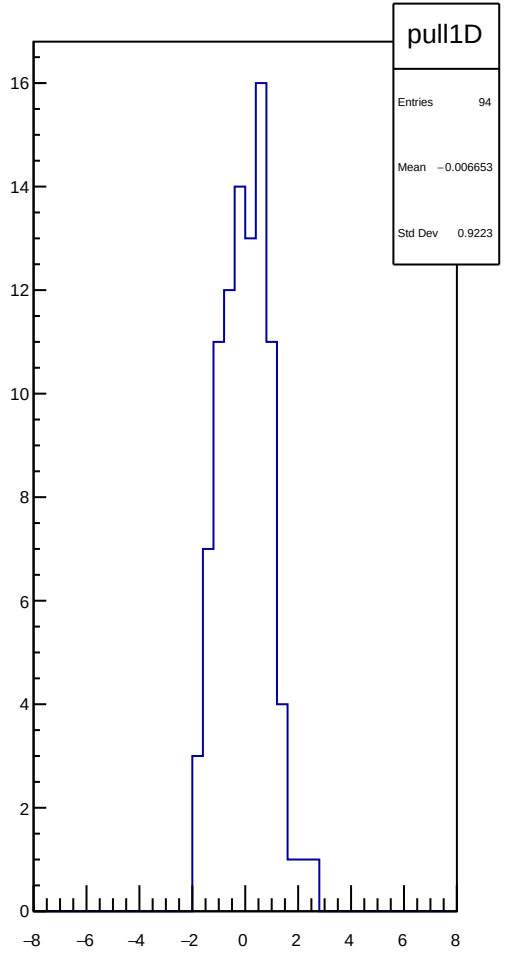

eigen_cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 1231 / 93
p0 125.8 ± 0.09392
136
134
132
130
128
126
124
122
120
118
116

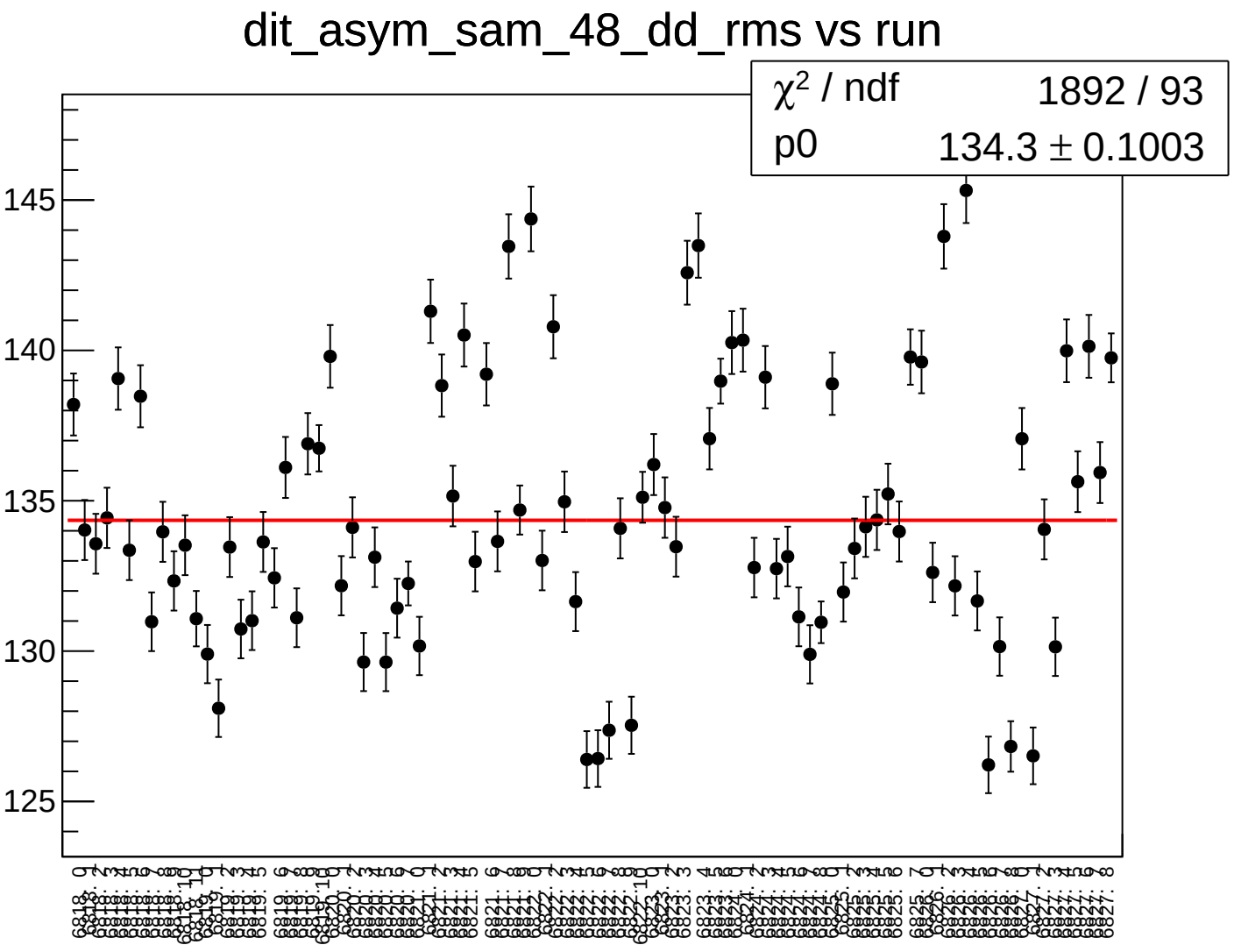

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.49 / 93
p0 240 ± 915.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −124.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 94
Mean −0.004681
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

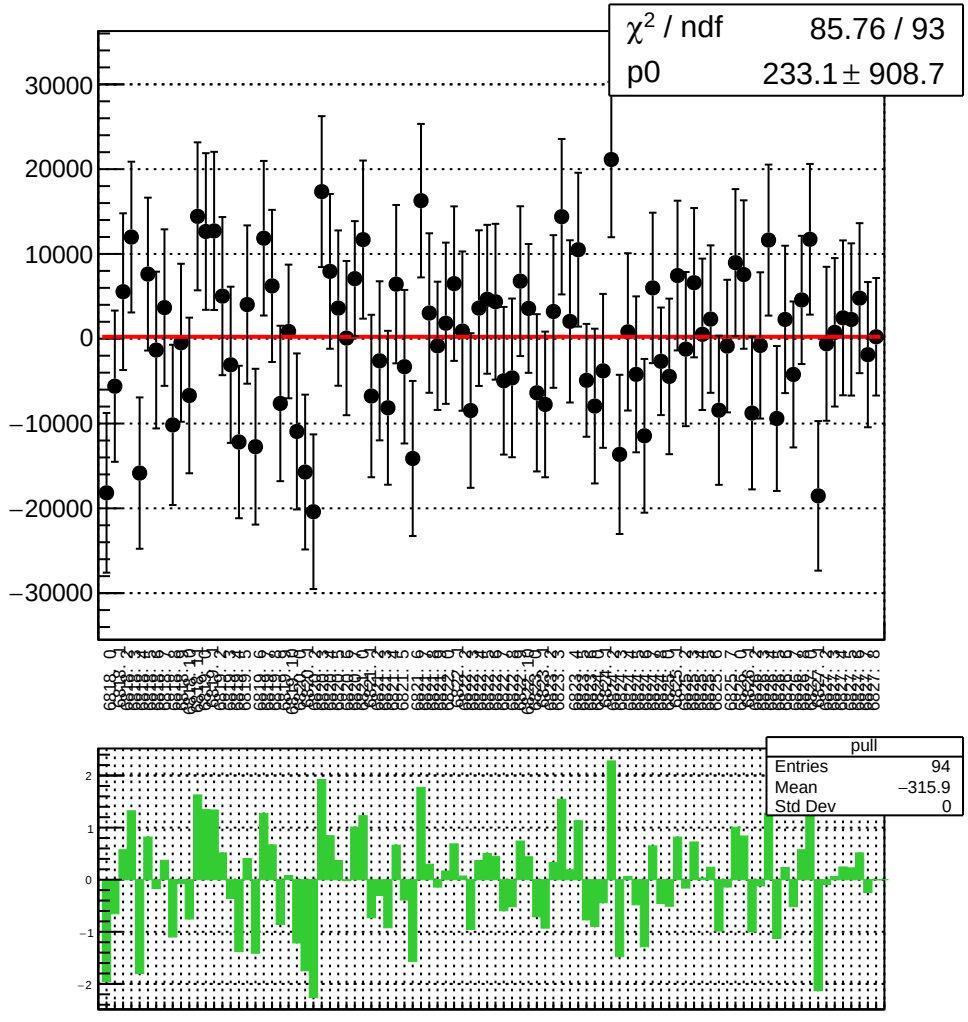

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2459 / 93
p0 866.4 ± 0.6471
1000
950
900
850
800

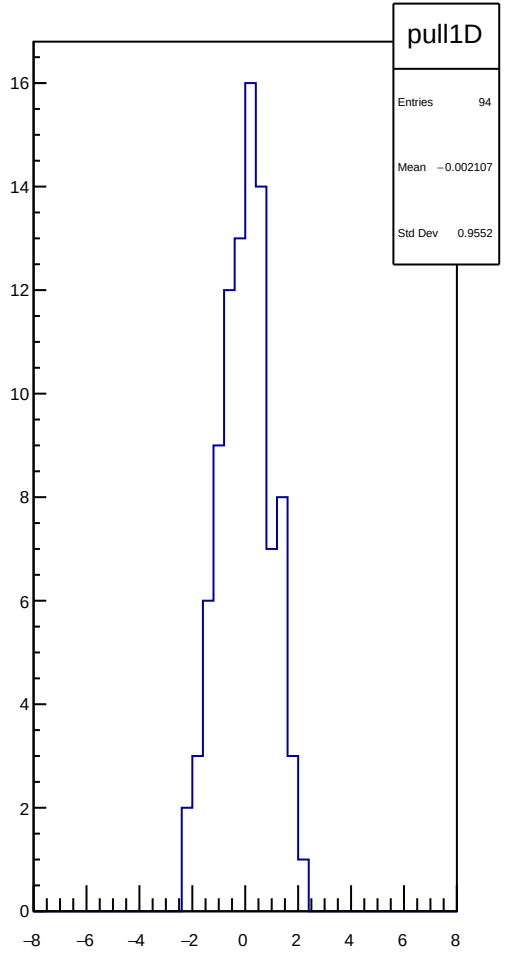

dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.97 / 93
p0 −354.9 ± 141.9
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 482
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

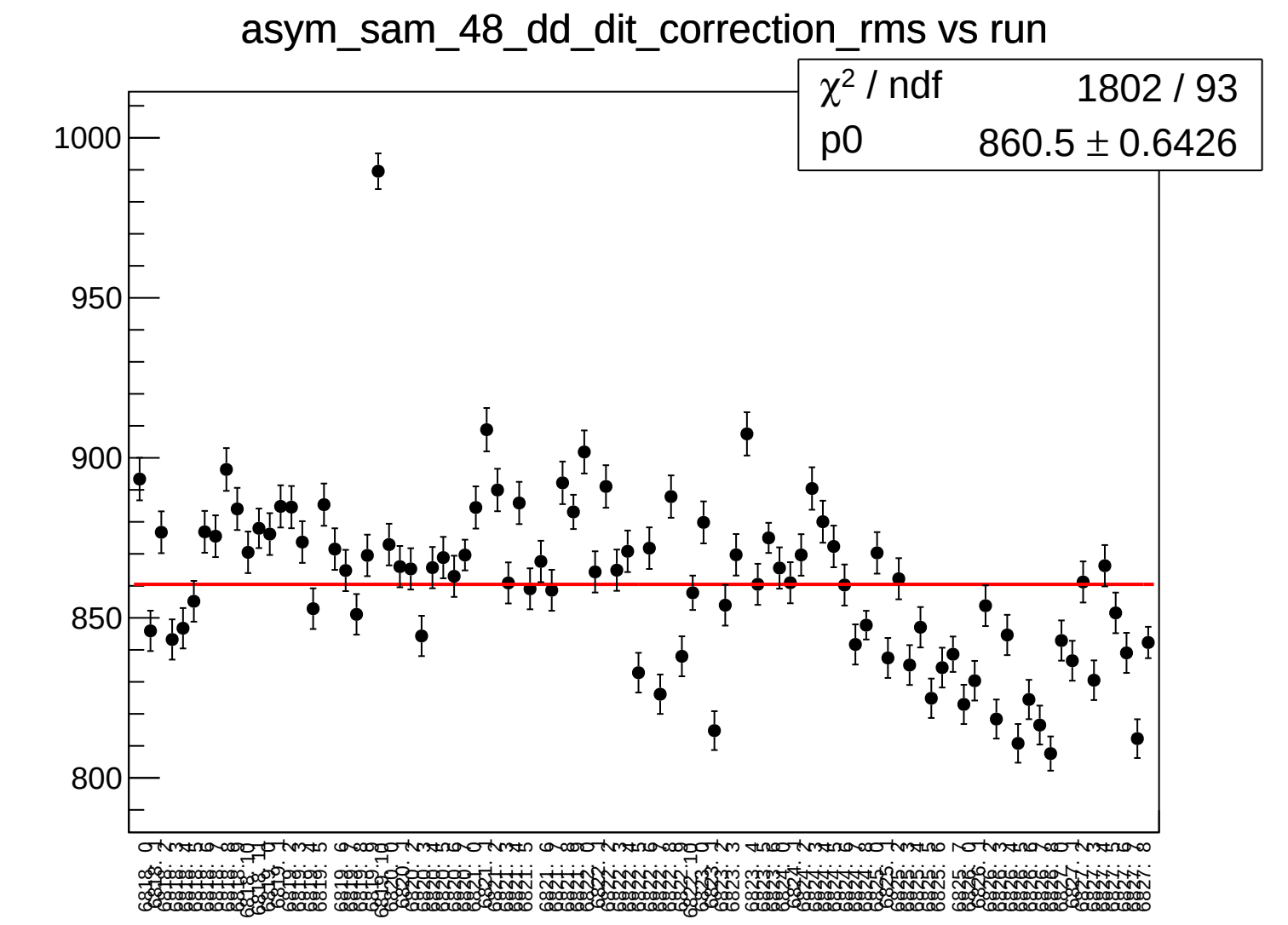

pull1D
Entries 94
Mean −0.006653
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

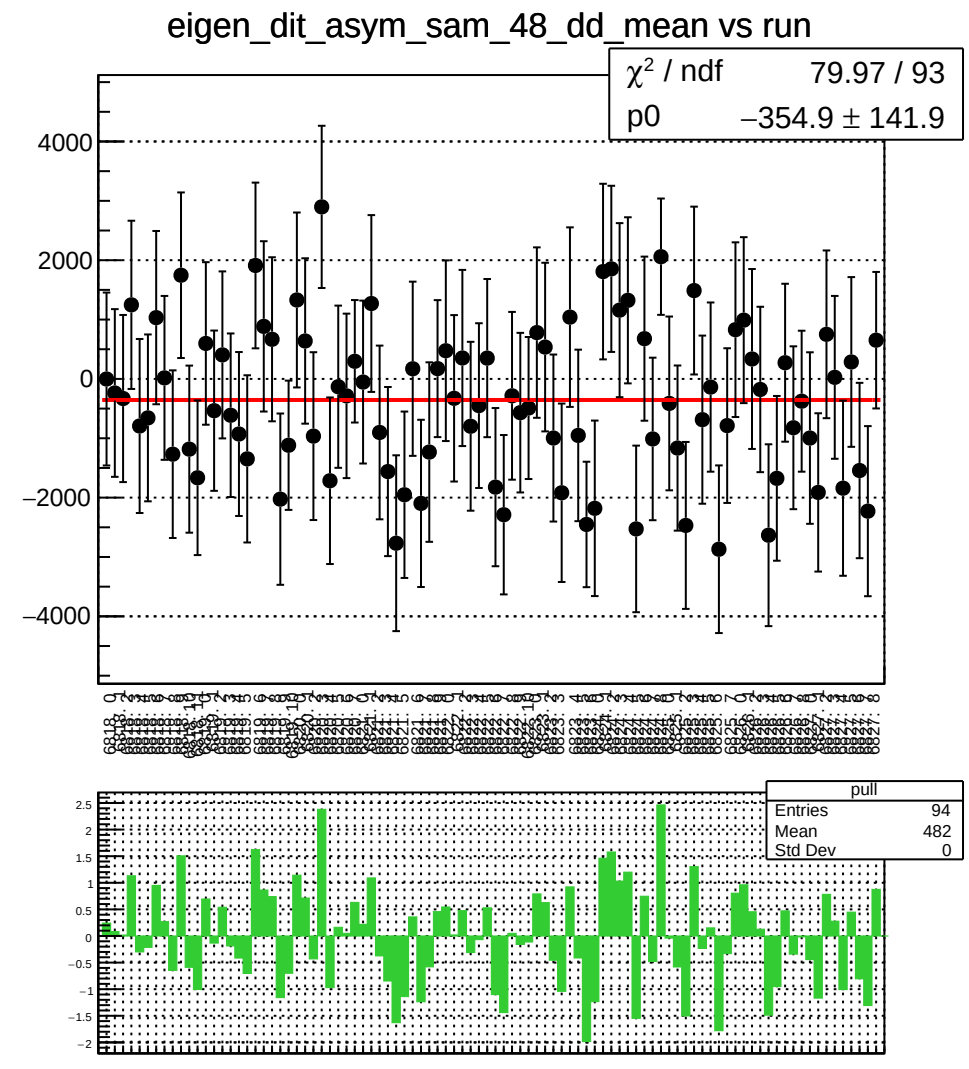

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1892 / 93
p0 134.3 ± 0.1003
145
140
135
130
125

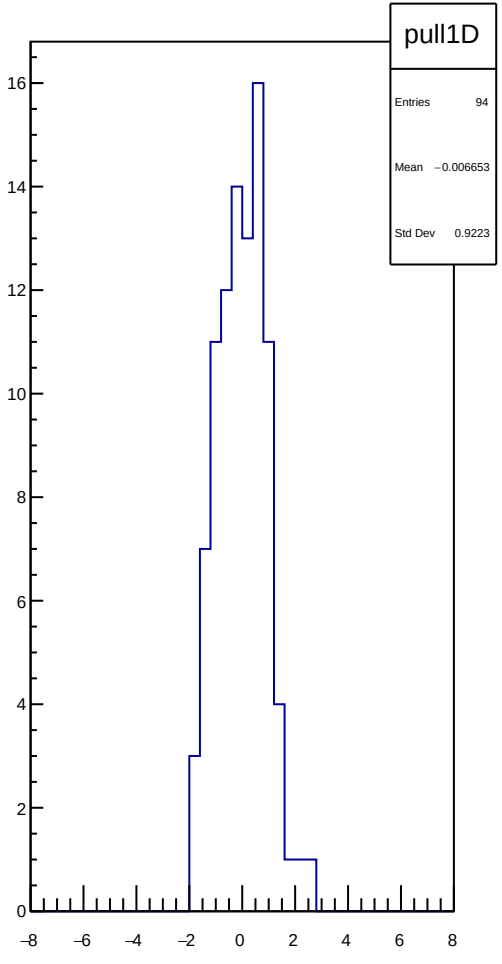
asym_sam_48_dd_dit_correction_mean vs run

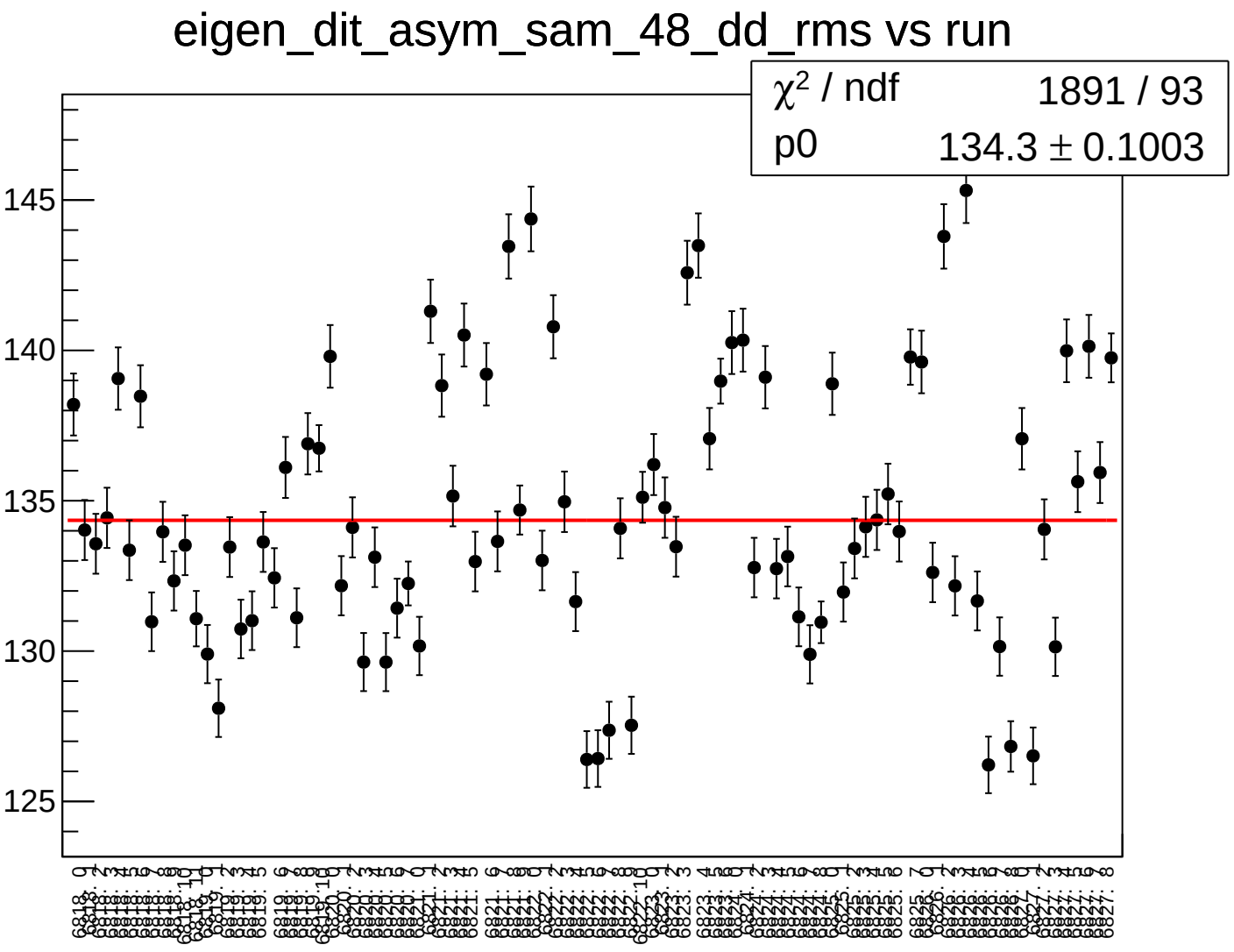


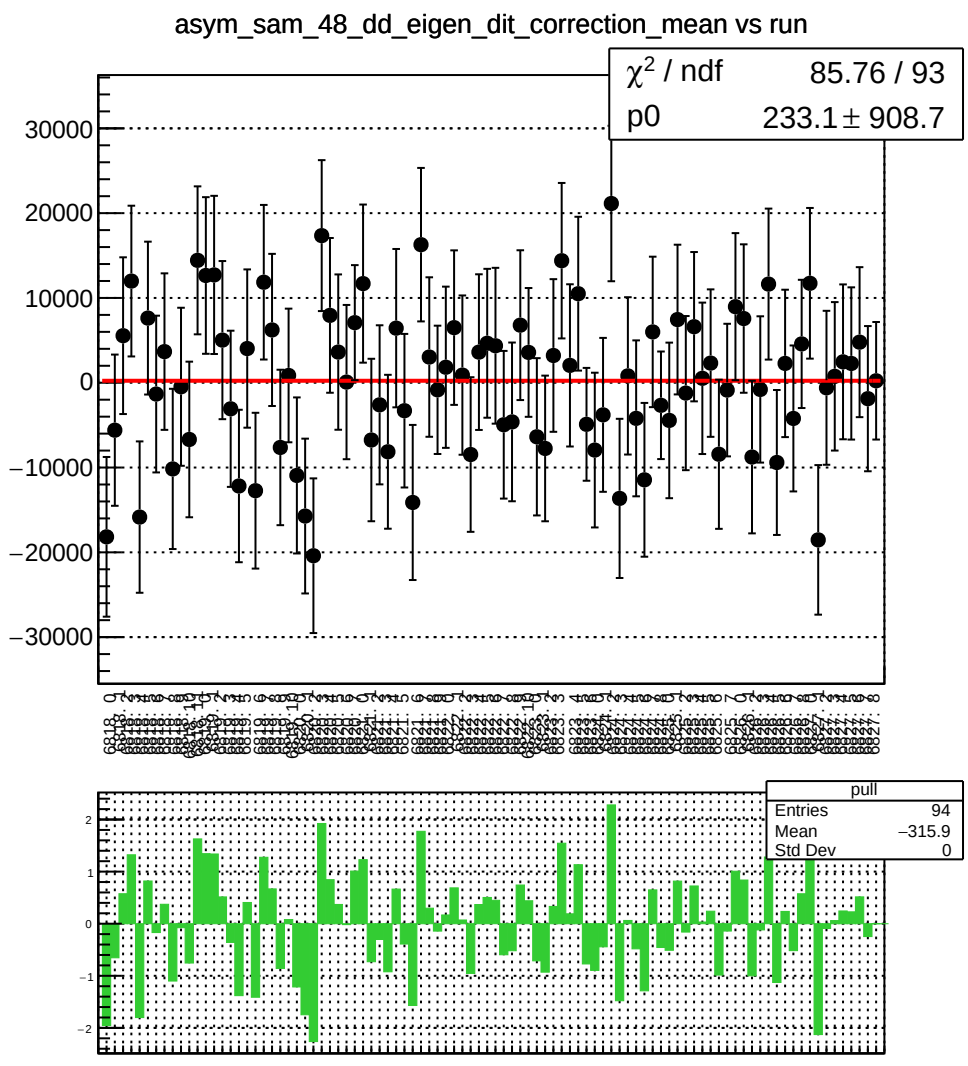


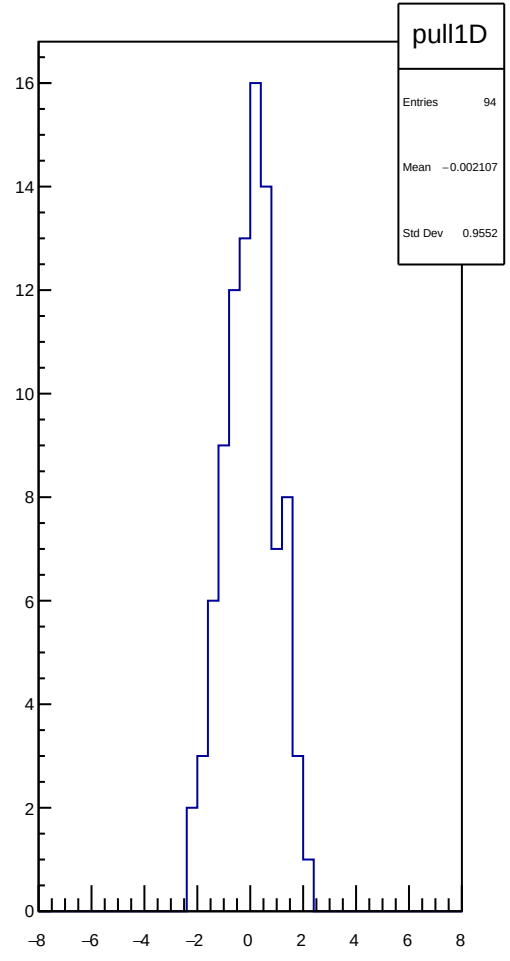

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1802 / 93
p0 860.5 ± 0.6426
1000
950
900
850
800

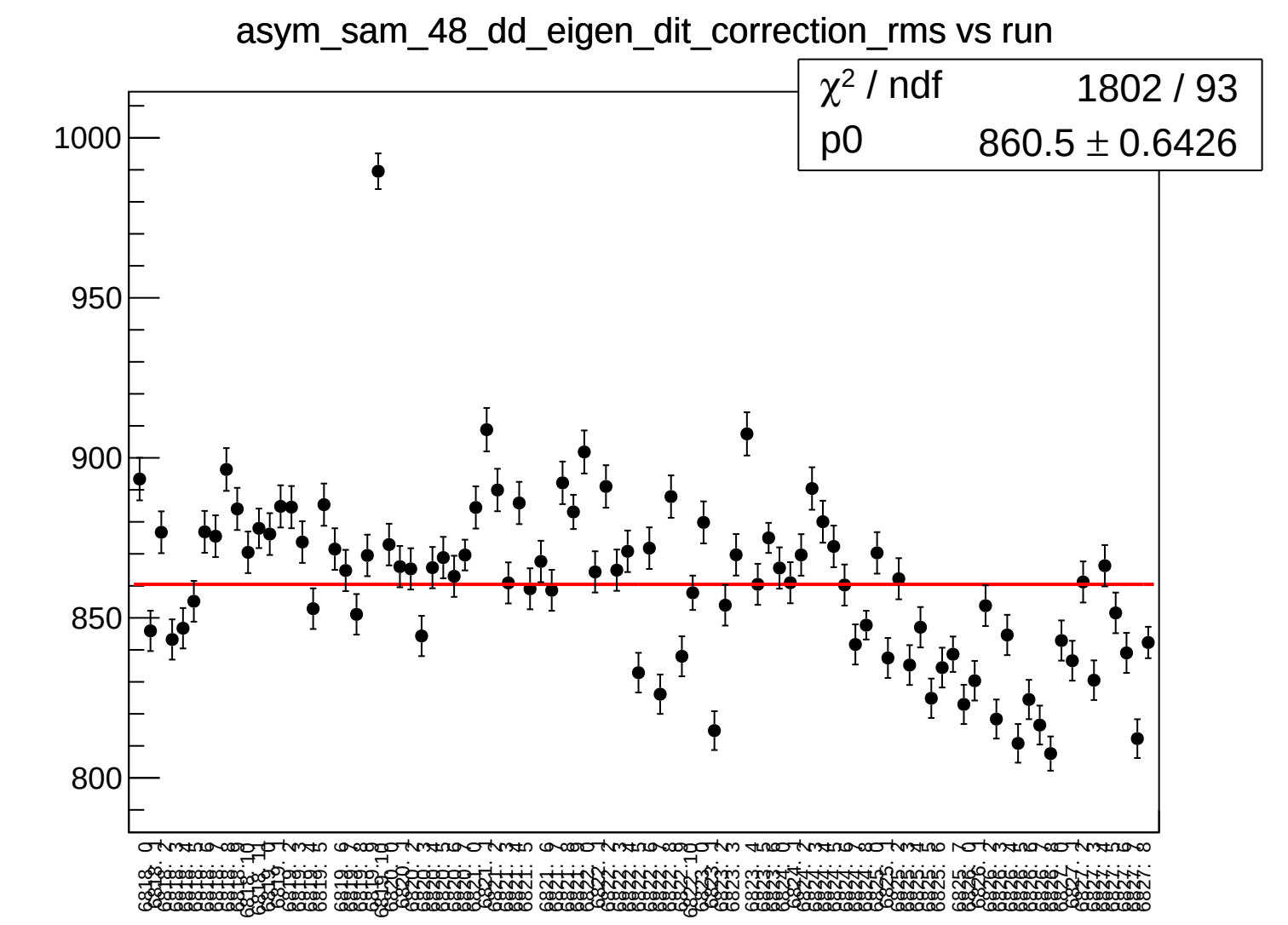

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 79.97 / 93
p0 −354.9 ± 141.9
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 482
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

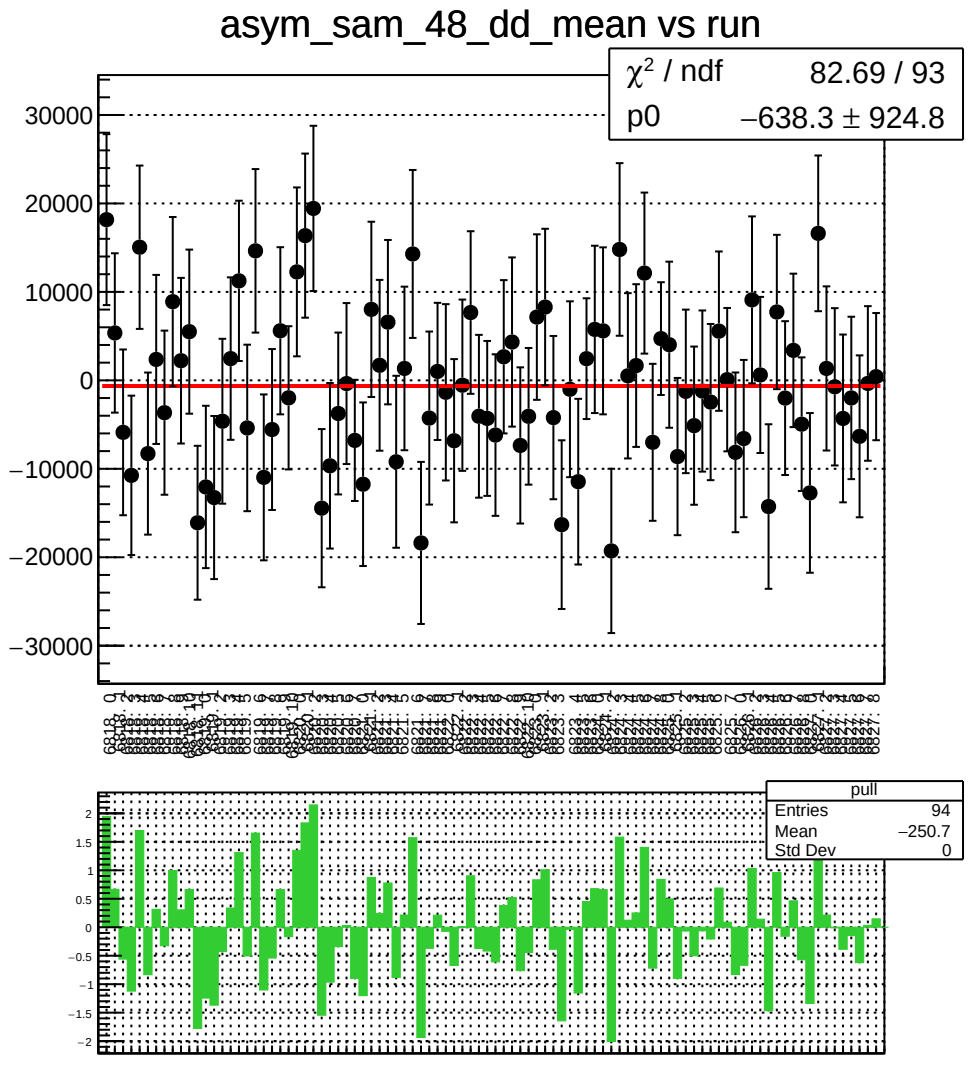

pull1D
Entries 94
Mean −0.006653
Std Dev 0.9223
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

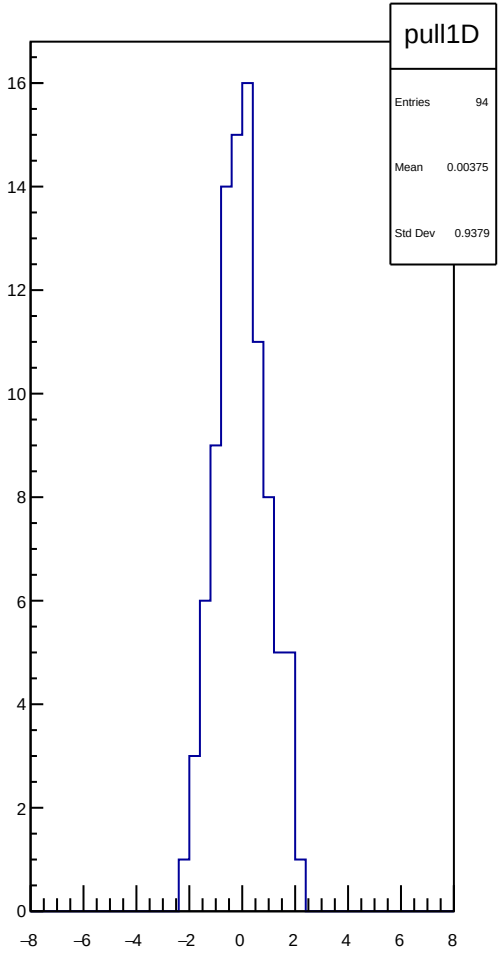

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 1891 / 93
p0 134.3 ± 0.1003
145
140
135
130
125

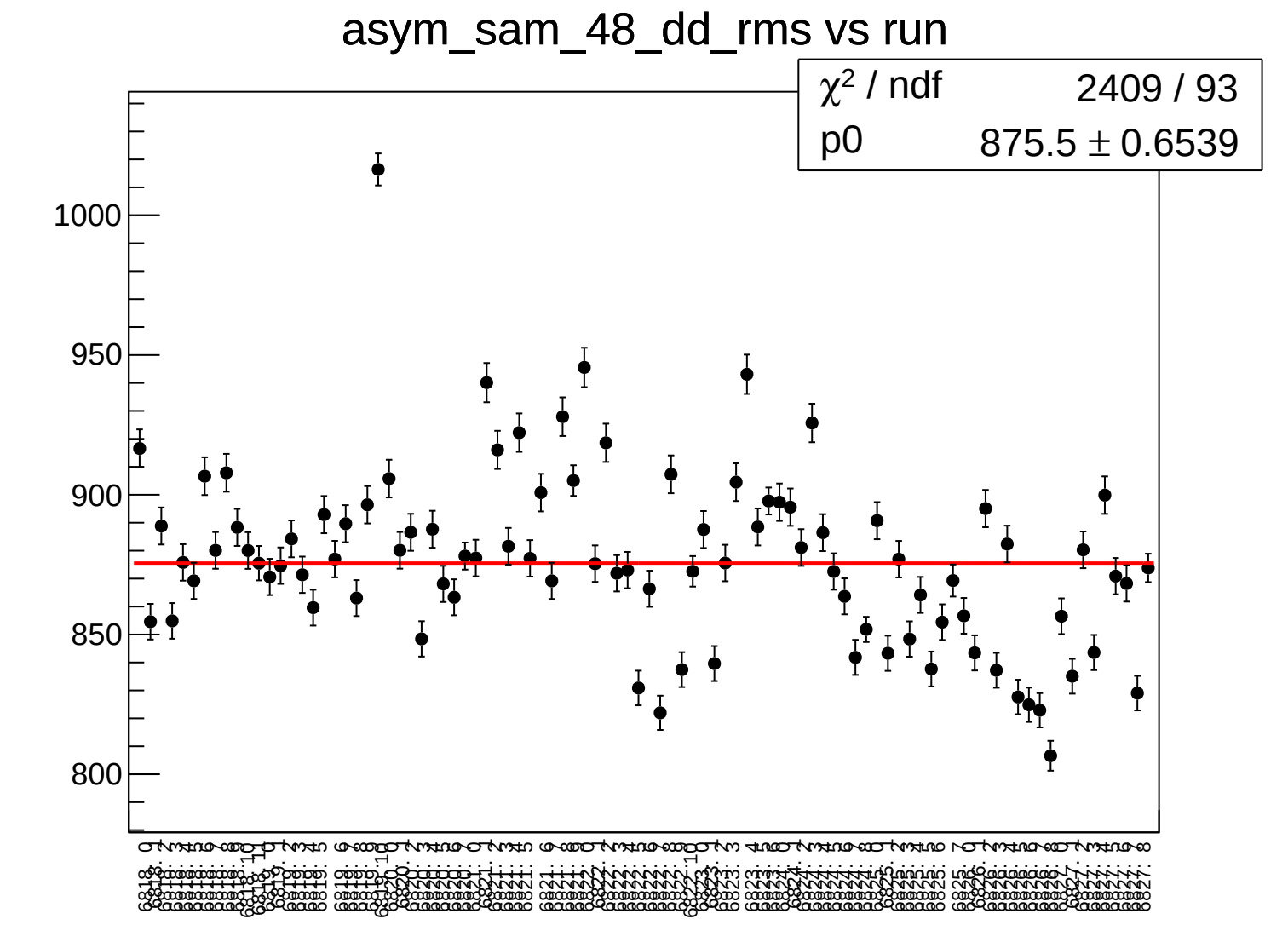

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.76 / 93
p0 233.1 ± 908.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −315.9
Std Dev 0
2
1
0
−1
−2

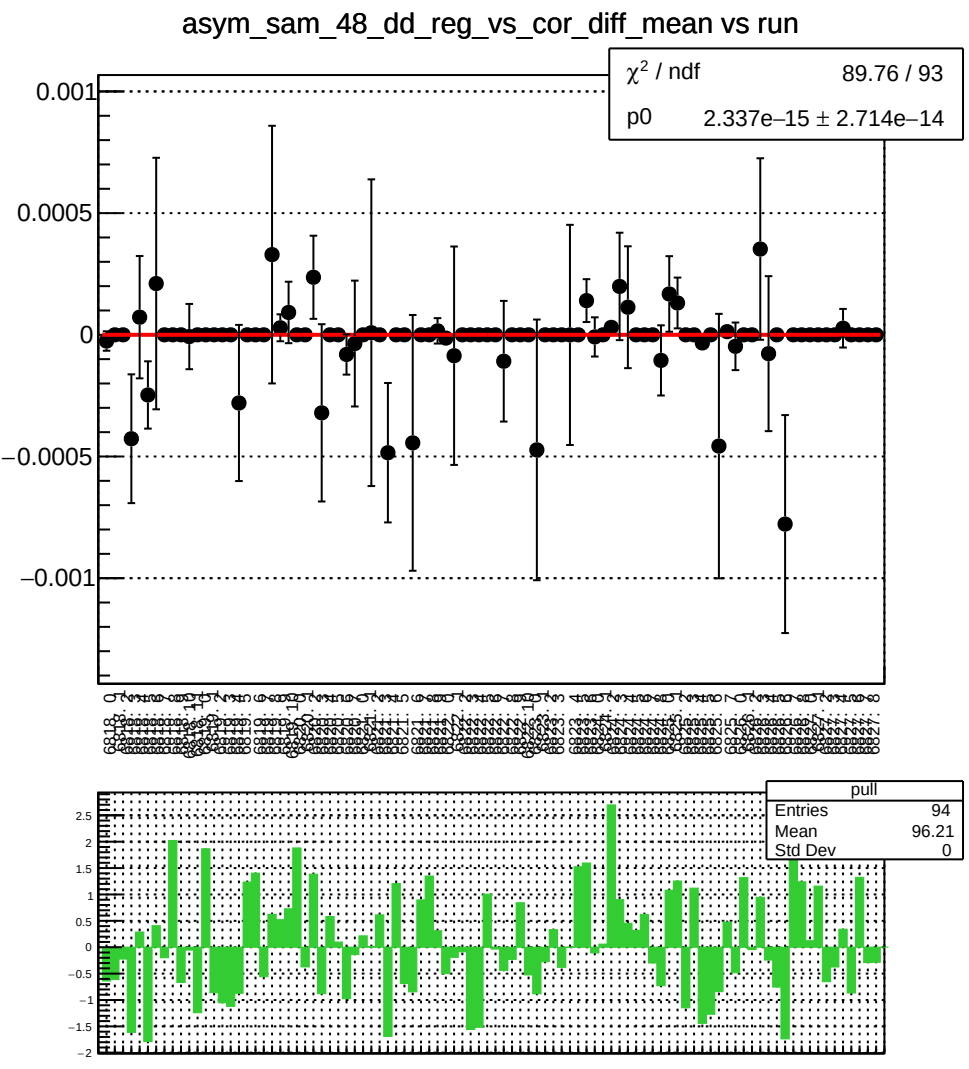

pull1D
Entries 94
Mean −0.002107
Std Dev 0.9552
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

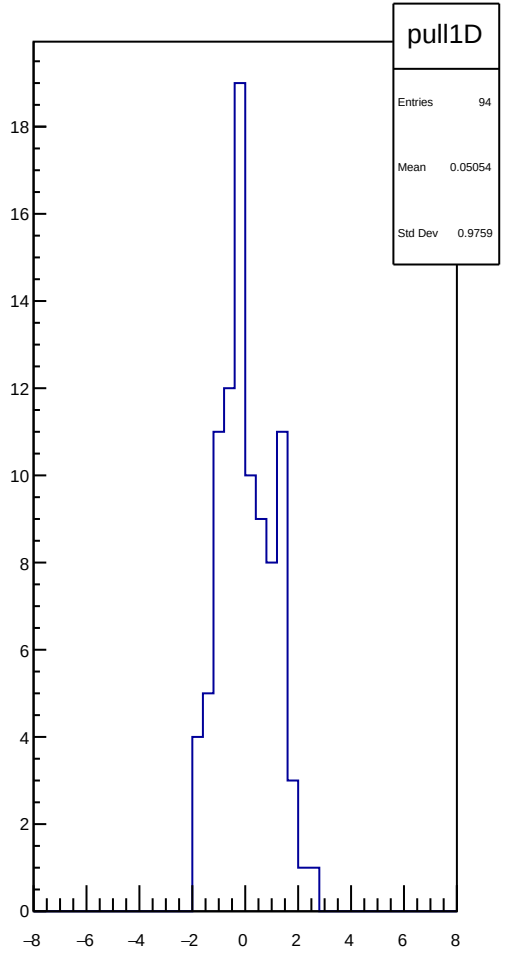

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1802 / 93
p0 860.5 ± 0.6426
1000
950
900
850
800

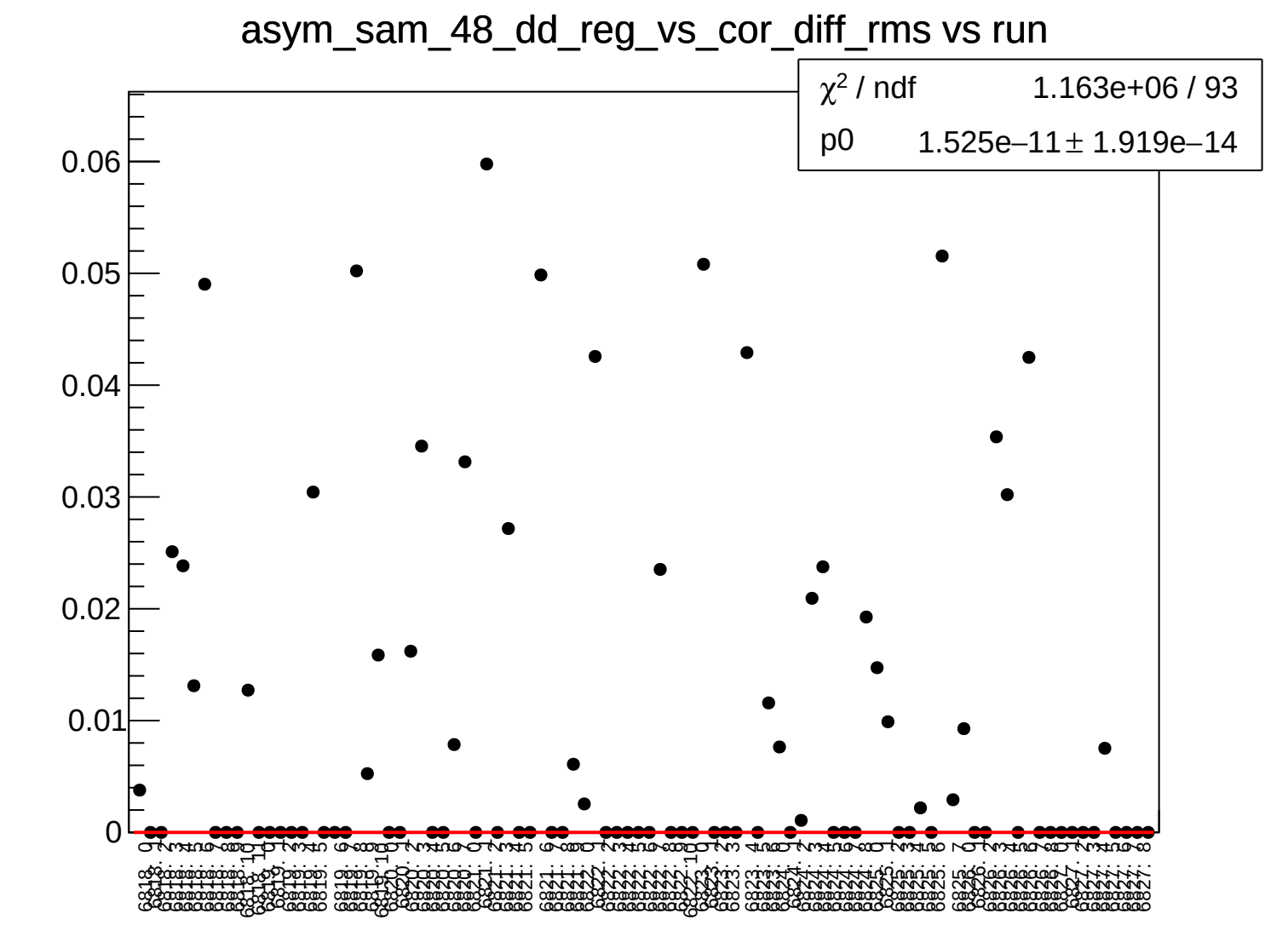

asym_sam_48_dd_mean vs run
χ² / ndf 82.69 / 93
p0 −638.3 ± 924.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −250.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

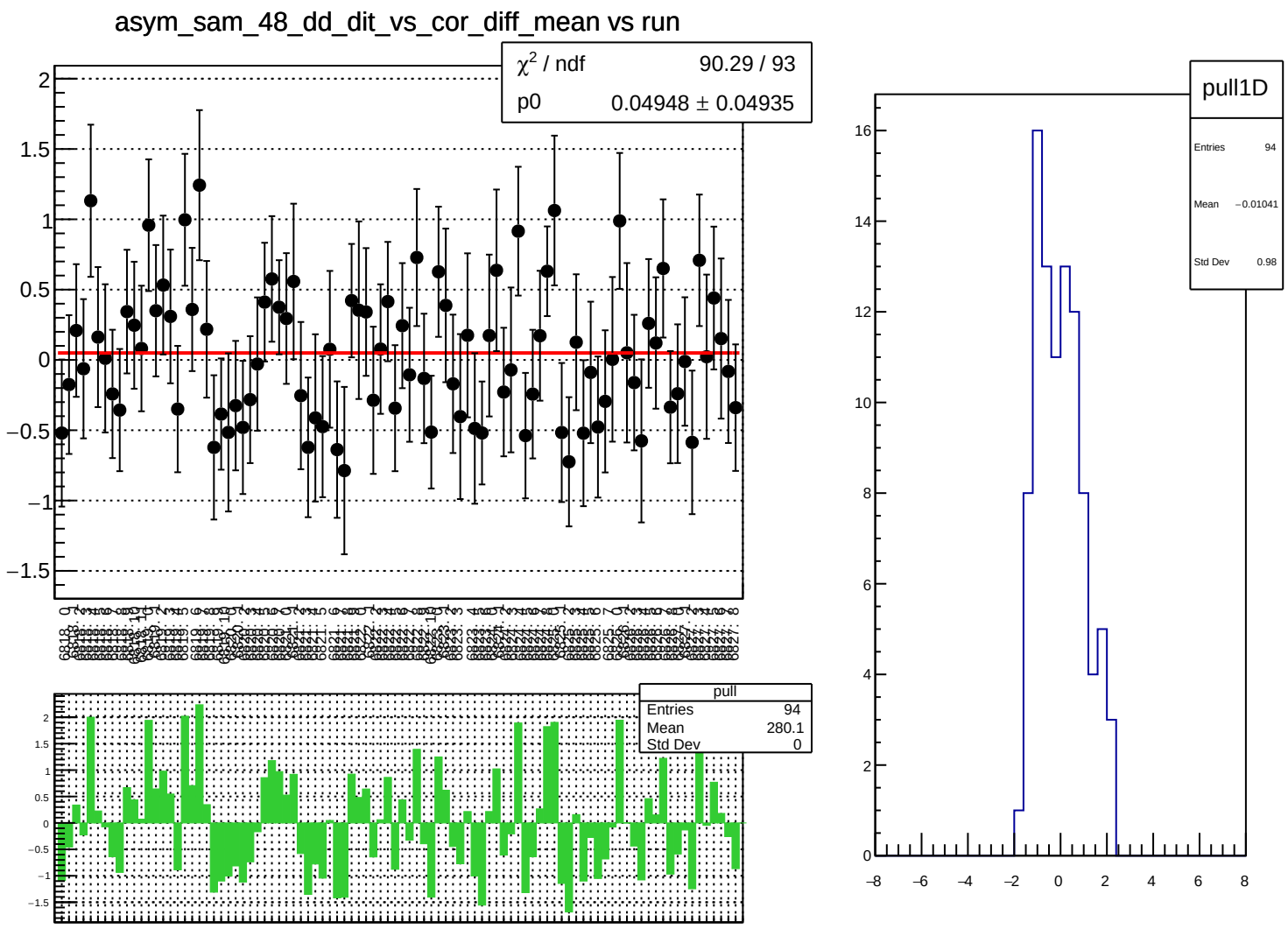

pull1D
Entries 94
Mean 0.00375
Std Dev 0.9379
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

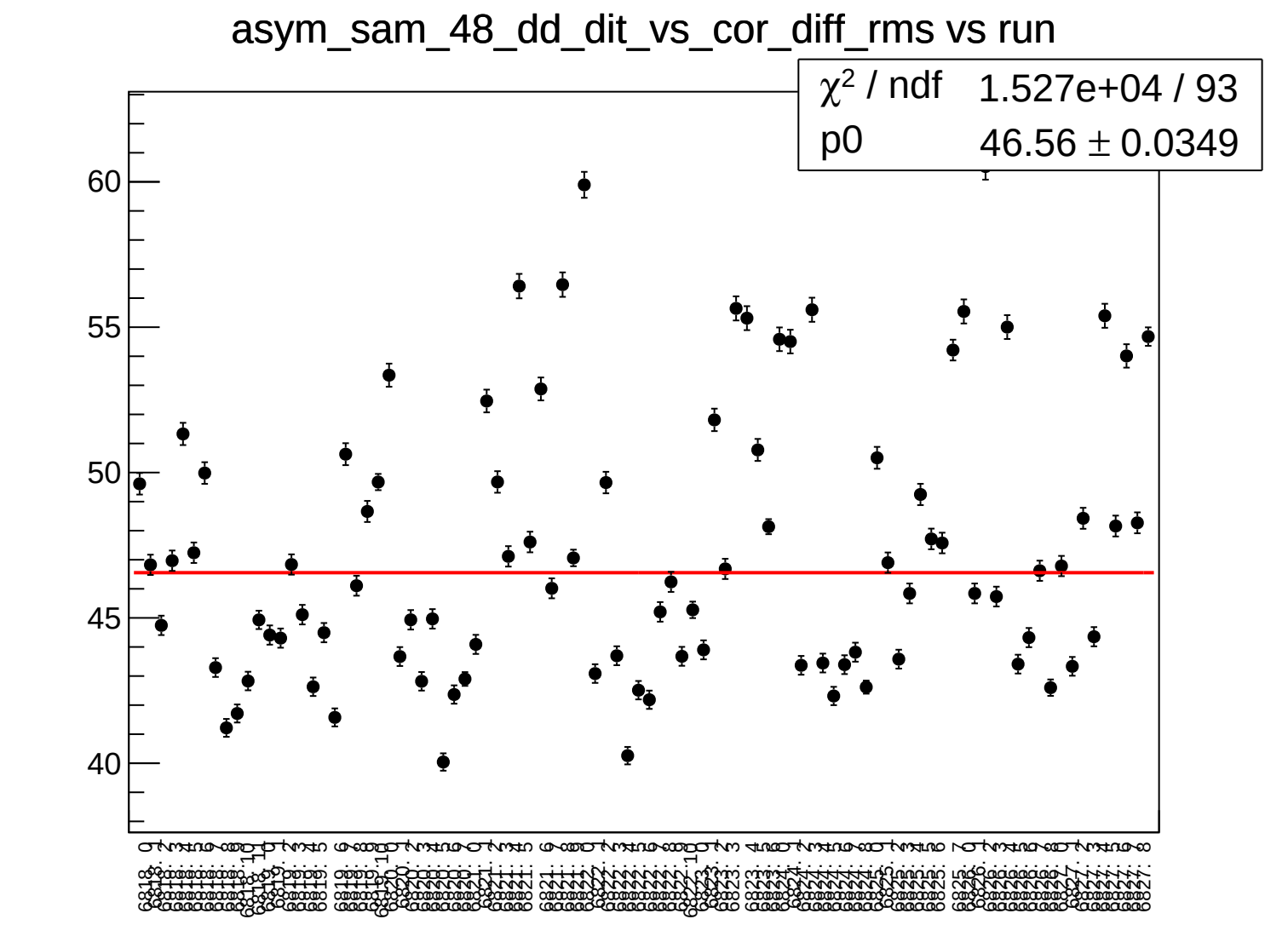

asym_sam_48_dd_rms vs run
χ² / ndf 2409 / 93
p0 875.5 ± 0.6539
1000
950
900
850
800

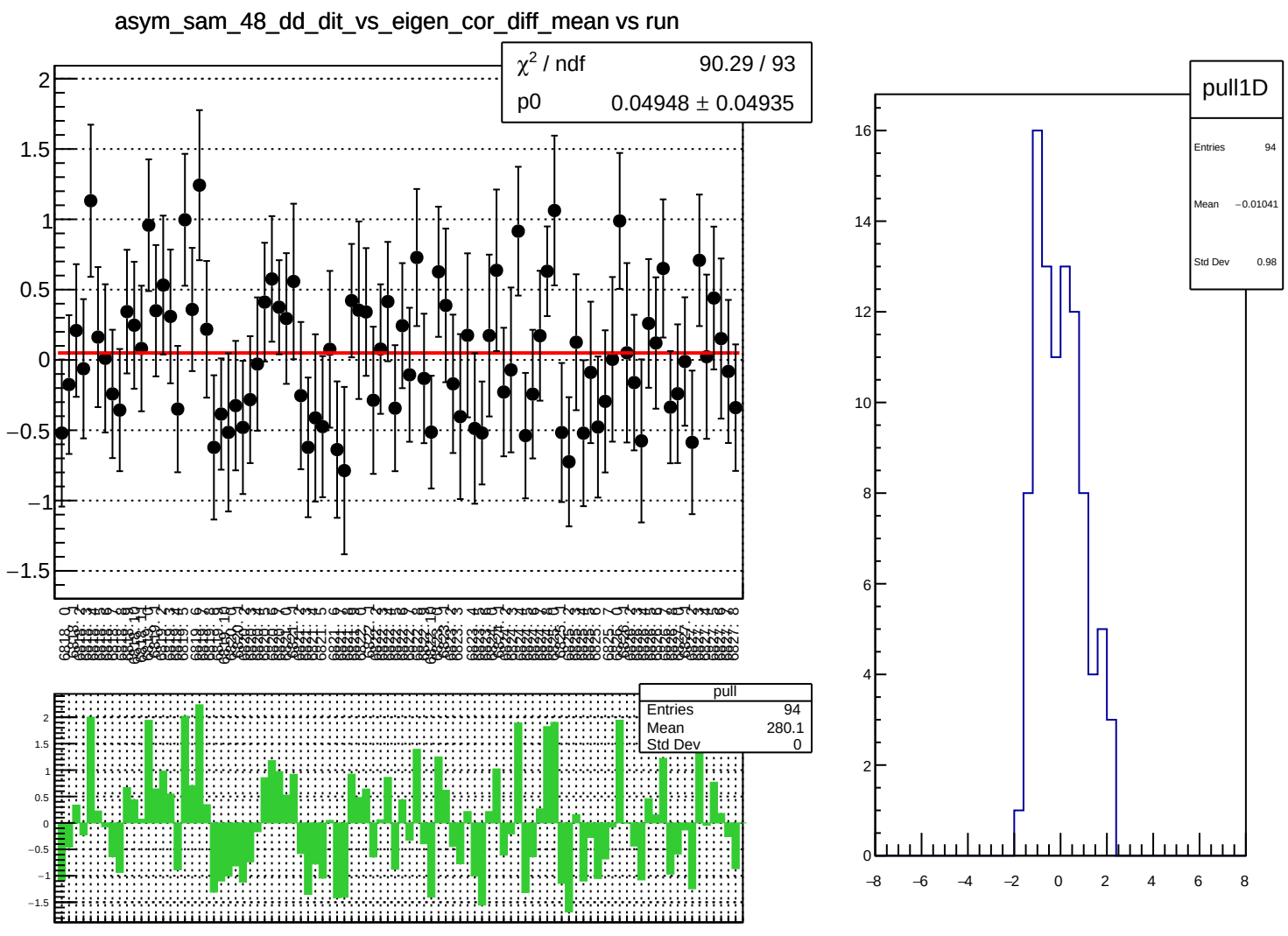

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.76 / 93
p0 2.337e−15 ± 2.714e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 94
Mean 96.21
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

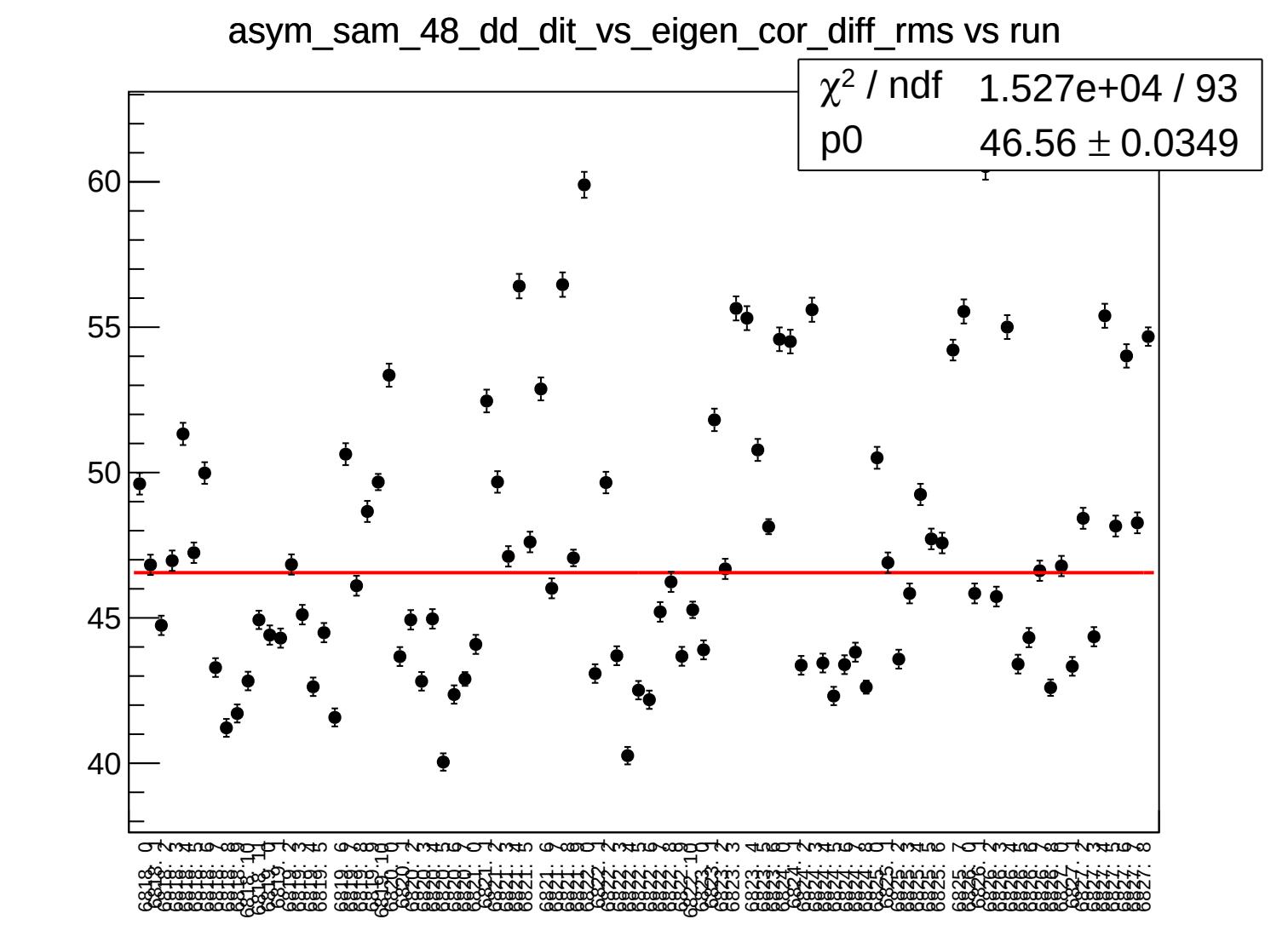

pull1D
Entries 94
Mean 0.05054
Std Dev 0.9759
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

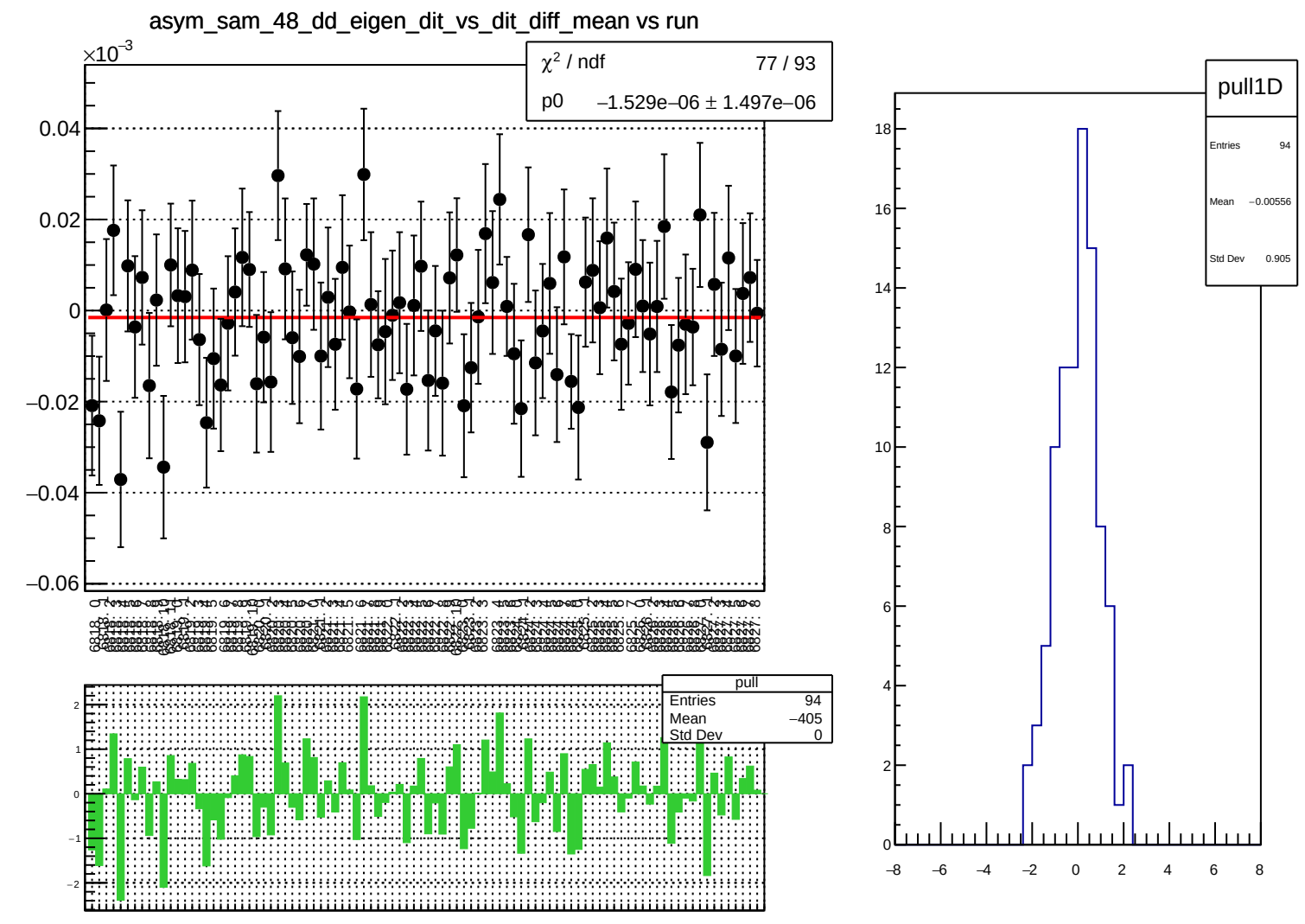

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 93
p0 1.525e−11 ± 1.919e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

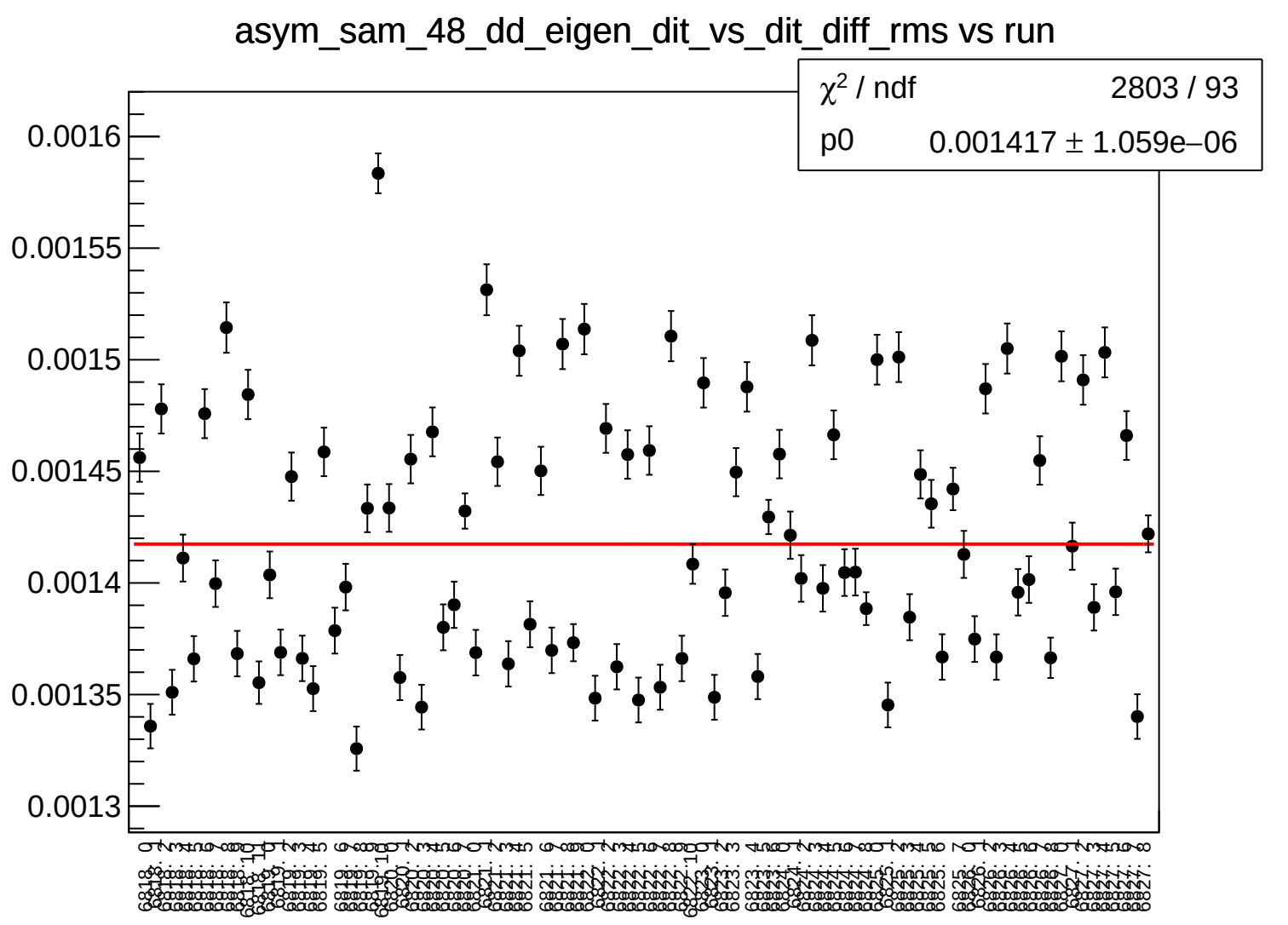

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.29 / 93
p0 0.04948 ± 0.04935
pull
Entries 94
Mean 280.1
Std Dev 0
pull1D
Entries 94
Mean −0.01041
Std Dev 0.98

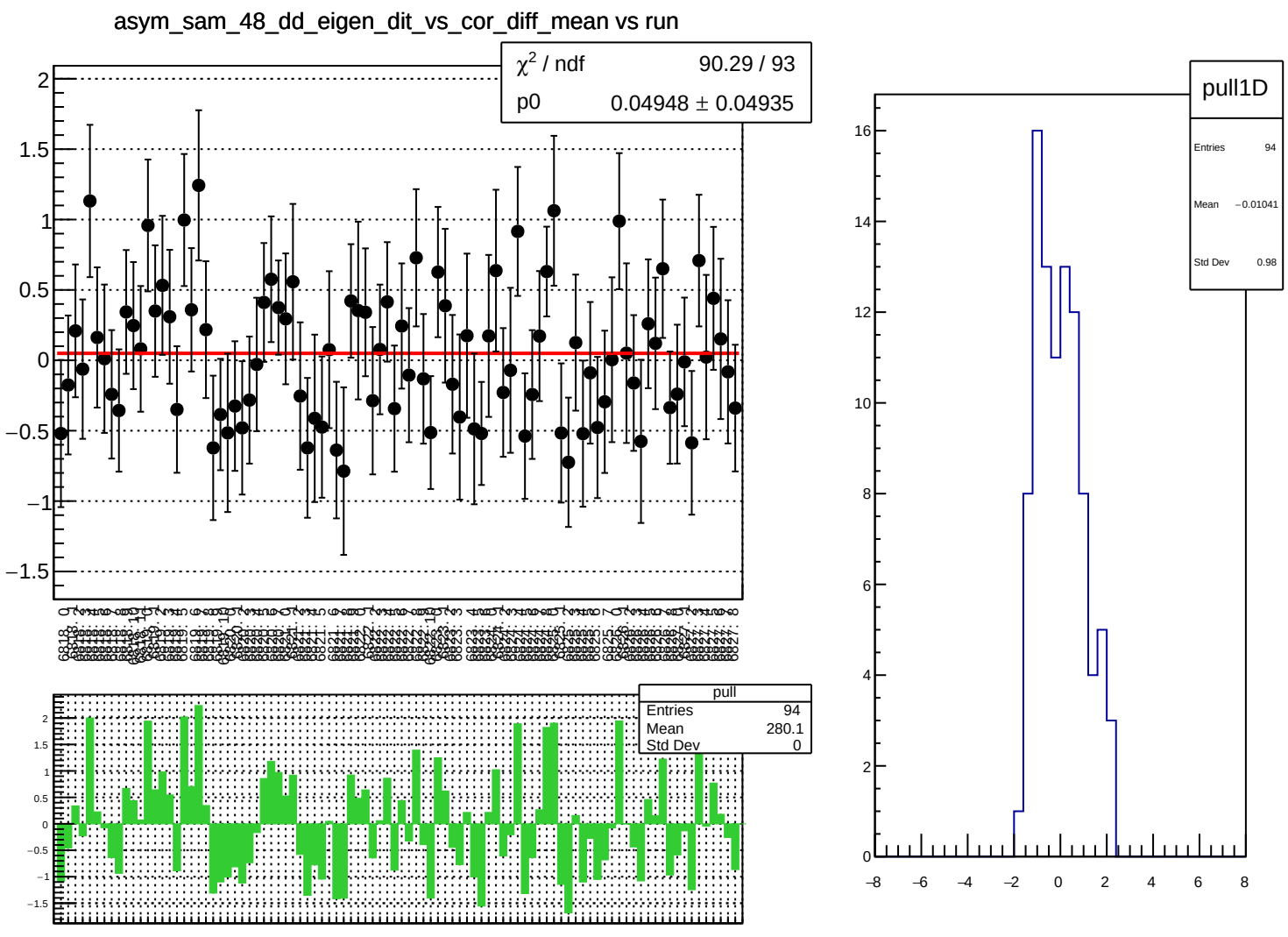

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 93
p0 46.56 ± 0.0349
60
55
50
45
40

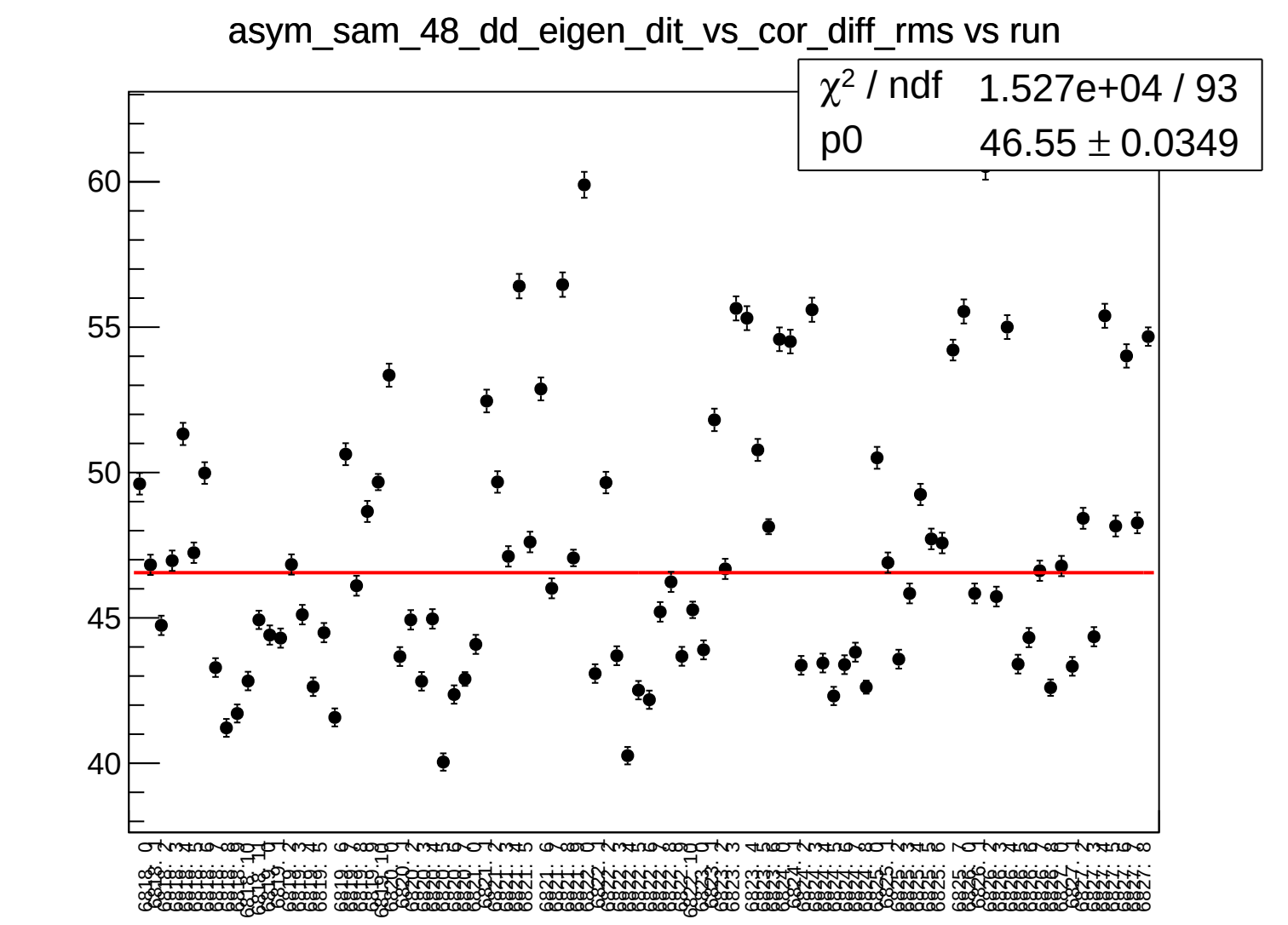

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.29 / 93
p0 0.04948 ± 0.04935
pull
Entries 94
Mean 280.1
Std Dev 0
pull1D
Entries 94
Mean −0.01041
Std Dev 0.98

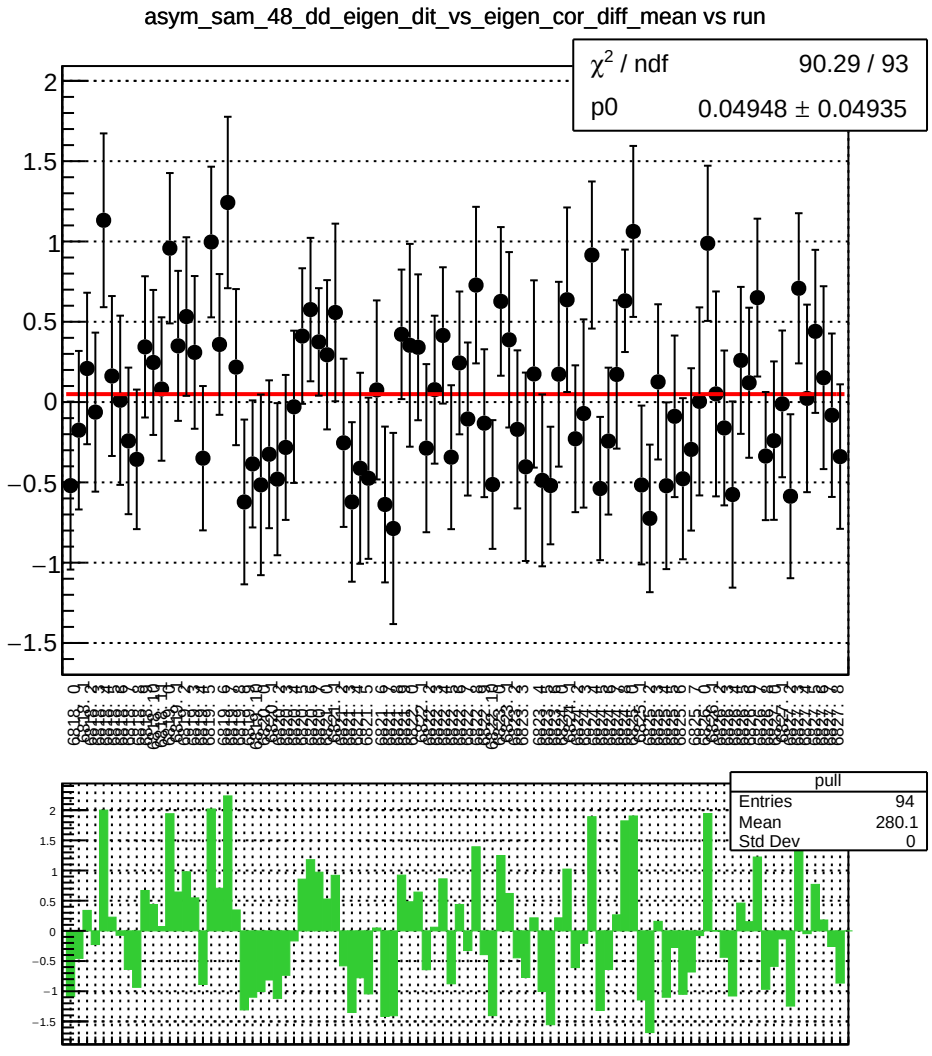

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 93
p0 46.56 ± 0.0349
60
55
50
45
40

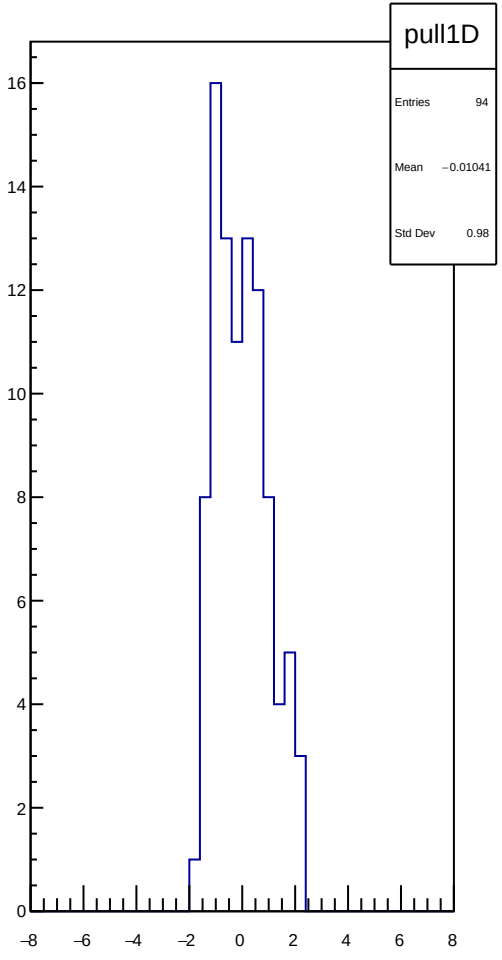

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77 / 93
p0 −1.529e−06 ± 1.497e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −405
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.00556
Std Dev 0.905
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

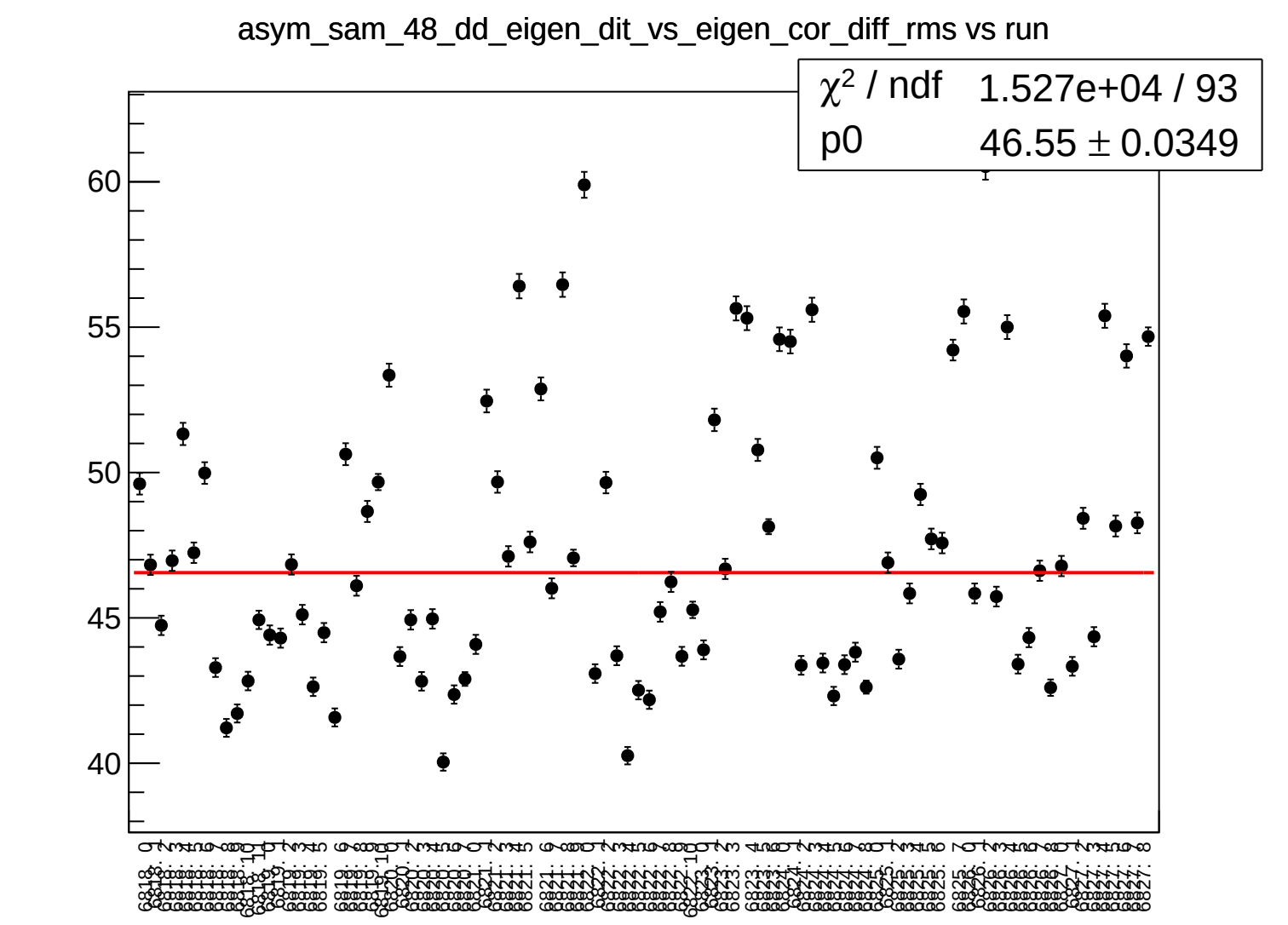

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2803 / 93
p0 0.001417 ± 1.059e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

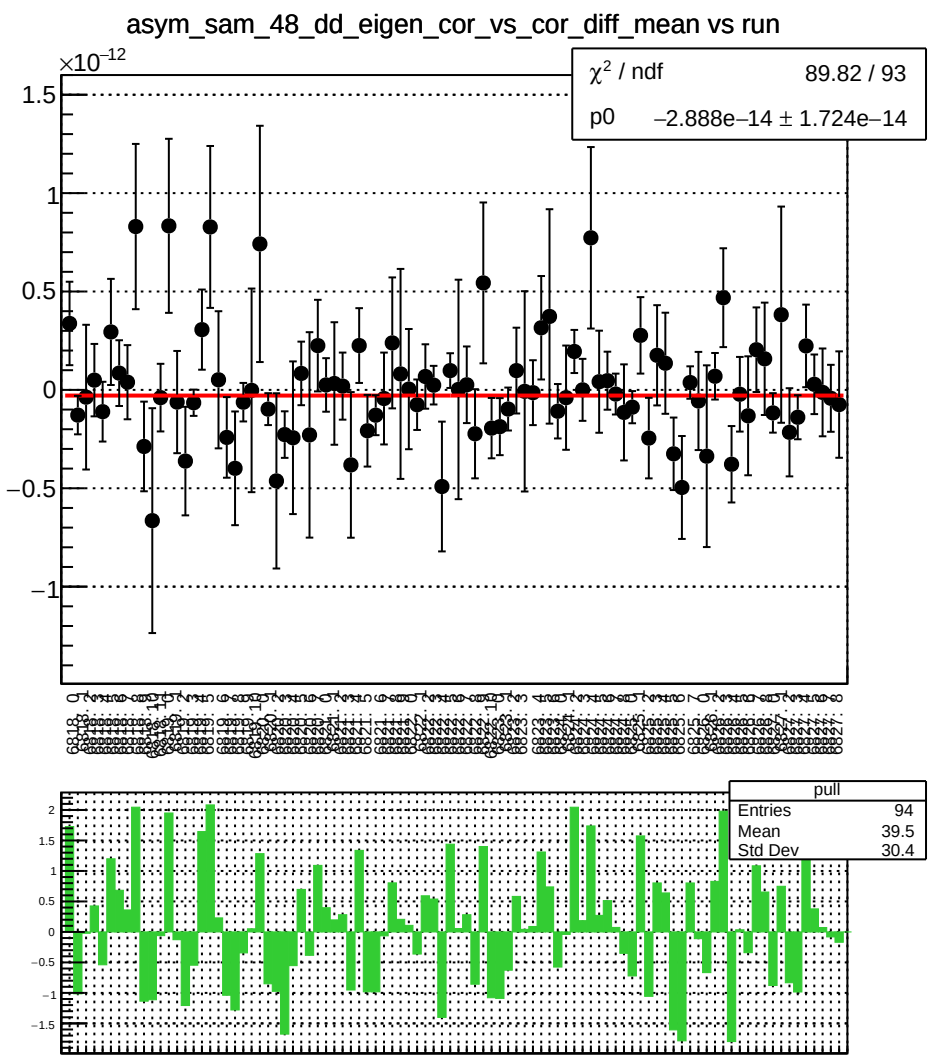

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.29 / 93
p0 0.04948 ± 0.04935
pull
Entries 94
Mean 280.1
Std Dev 0
pull1D
Entries 94
Mean −0.01041
Std Dev 0.98

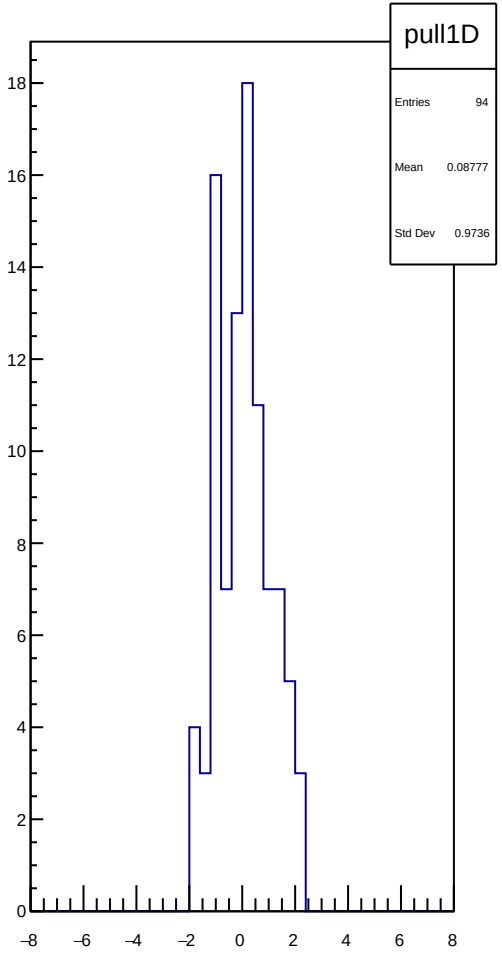

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 93
p0 46.55 ± 0.0349
60
55
50
45
40

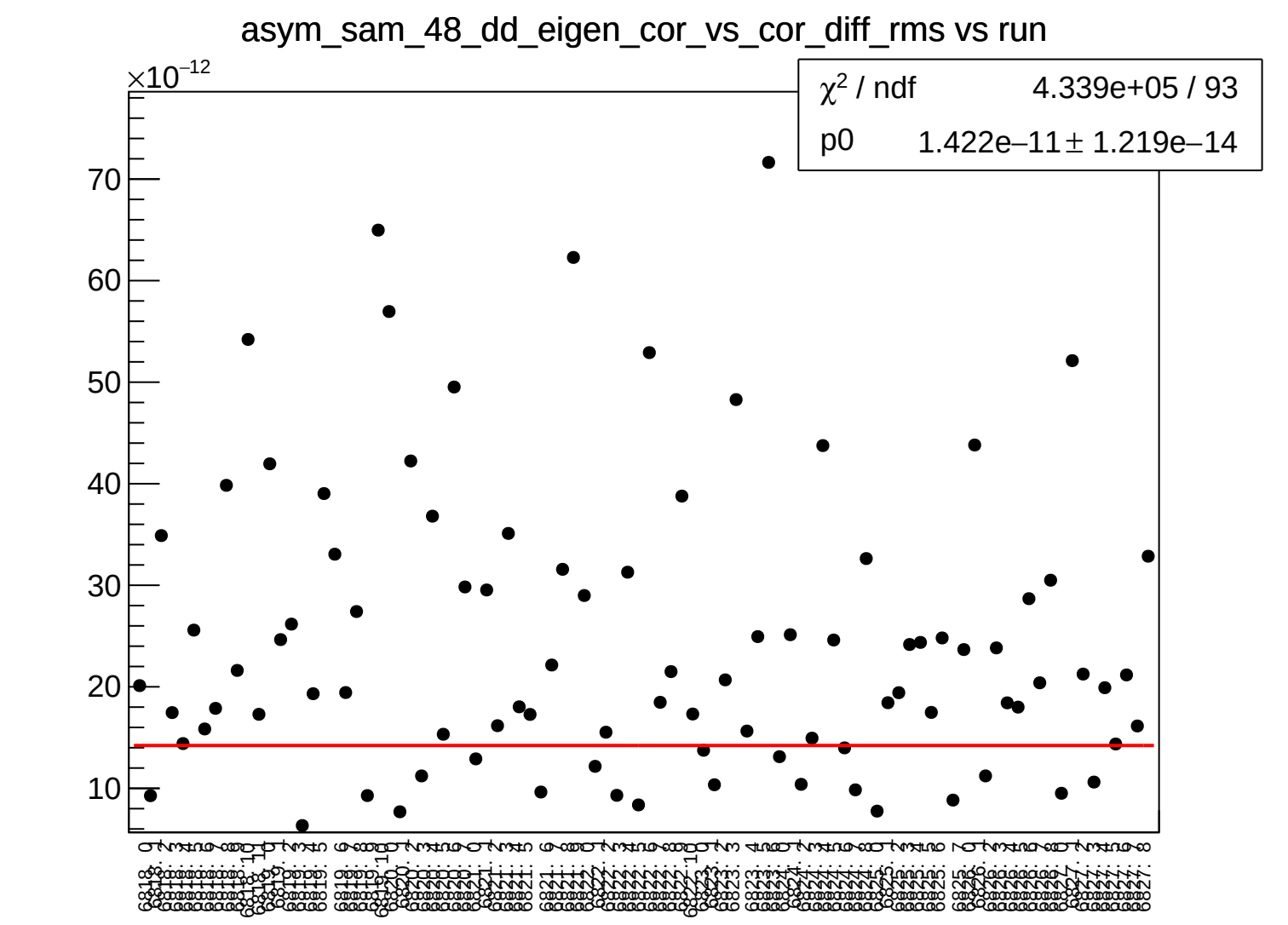

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.29 / 93
p0 0.04948 ± 0.04935
pull
Entries 94
Mean 280.1
Std Dev 0

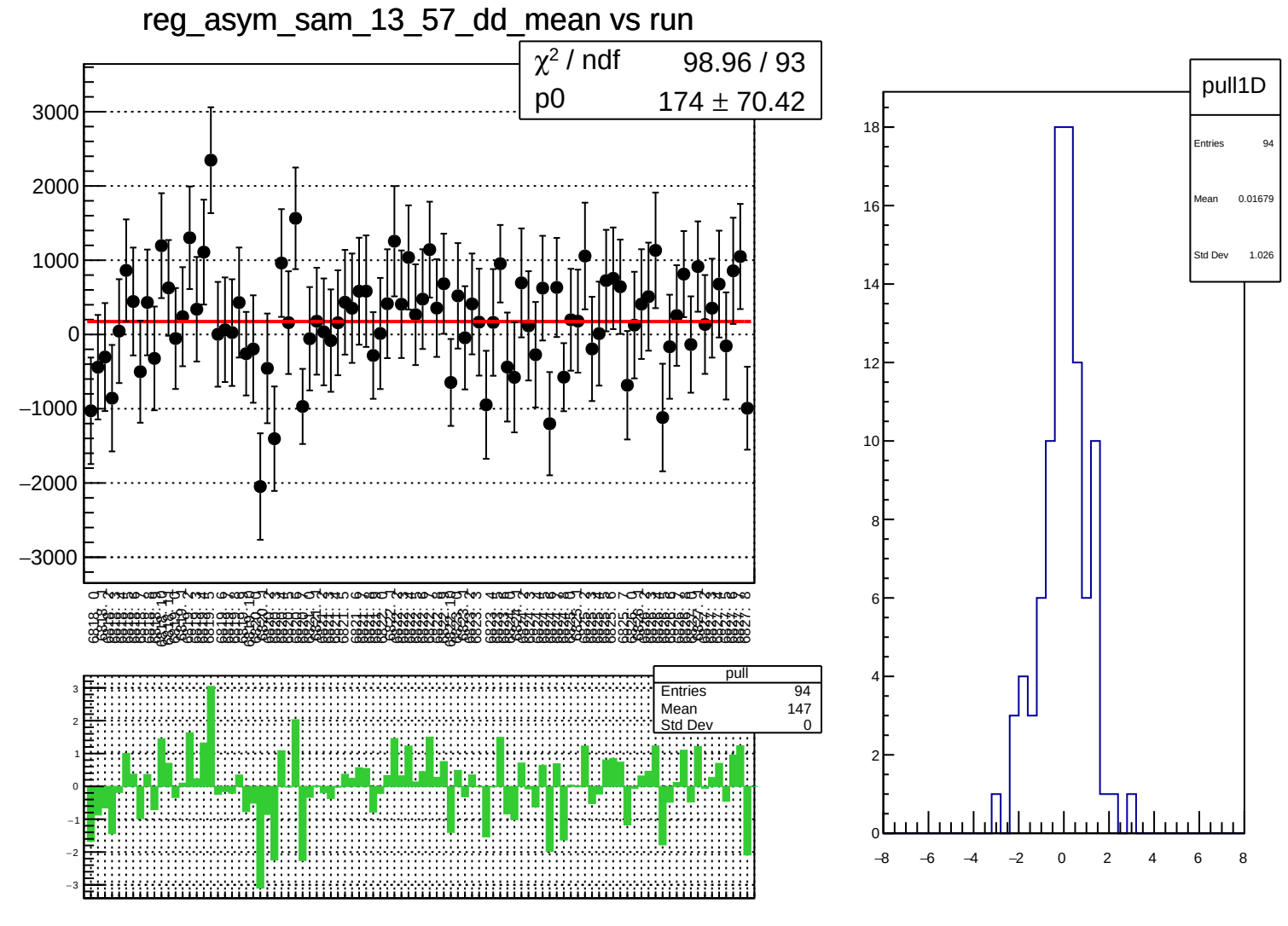

pull1D
Entries 94
Mean −0.01041
Std Dev 0.98

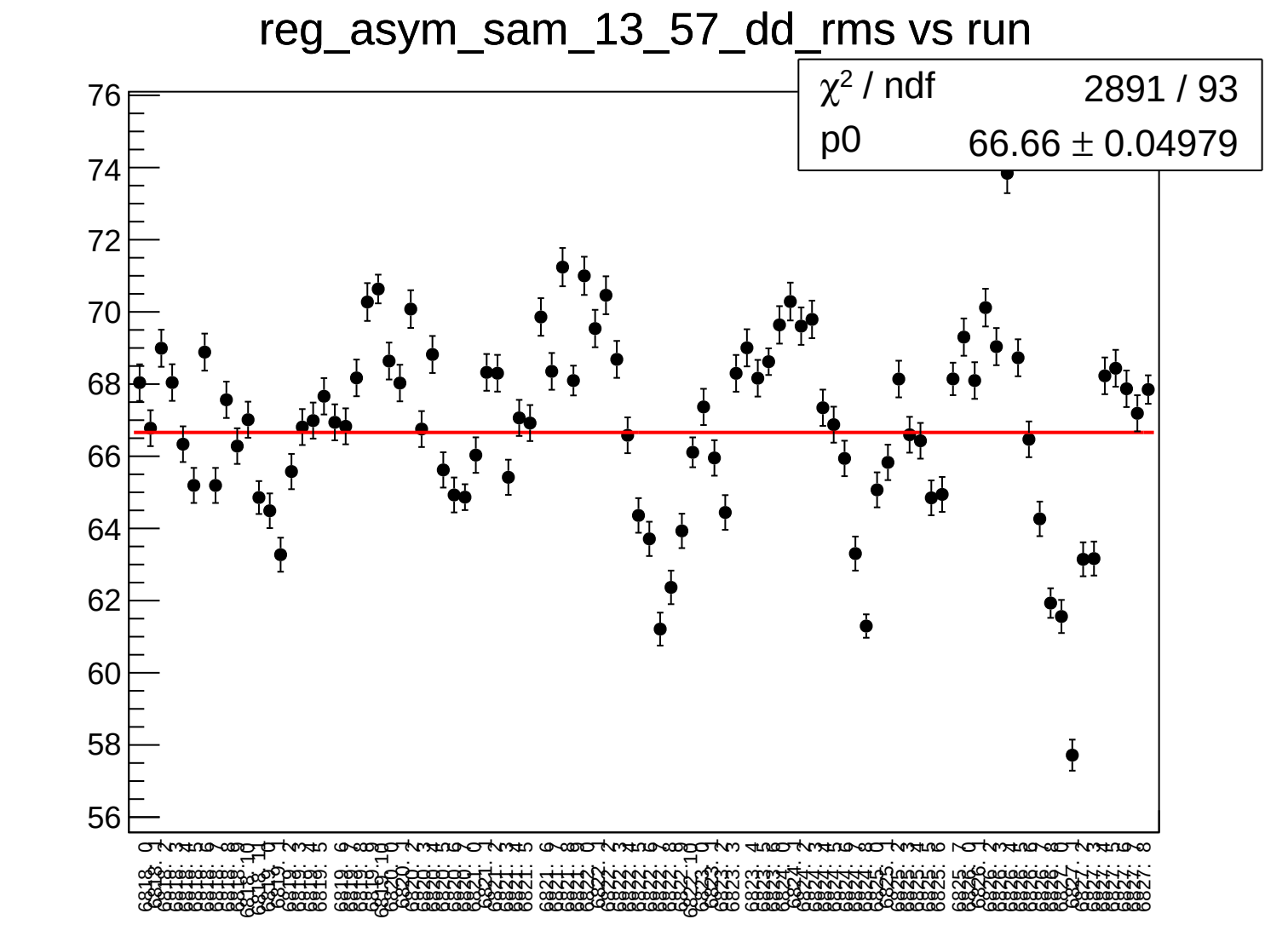

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.527e+04 / 93
p0 46.55 ± 0.0349
60
55
50
45
40

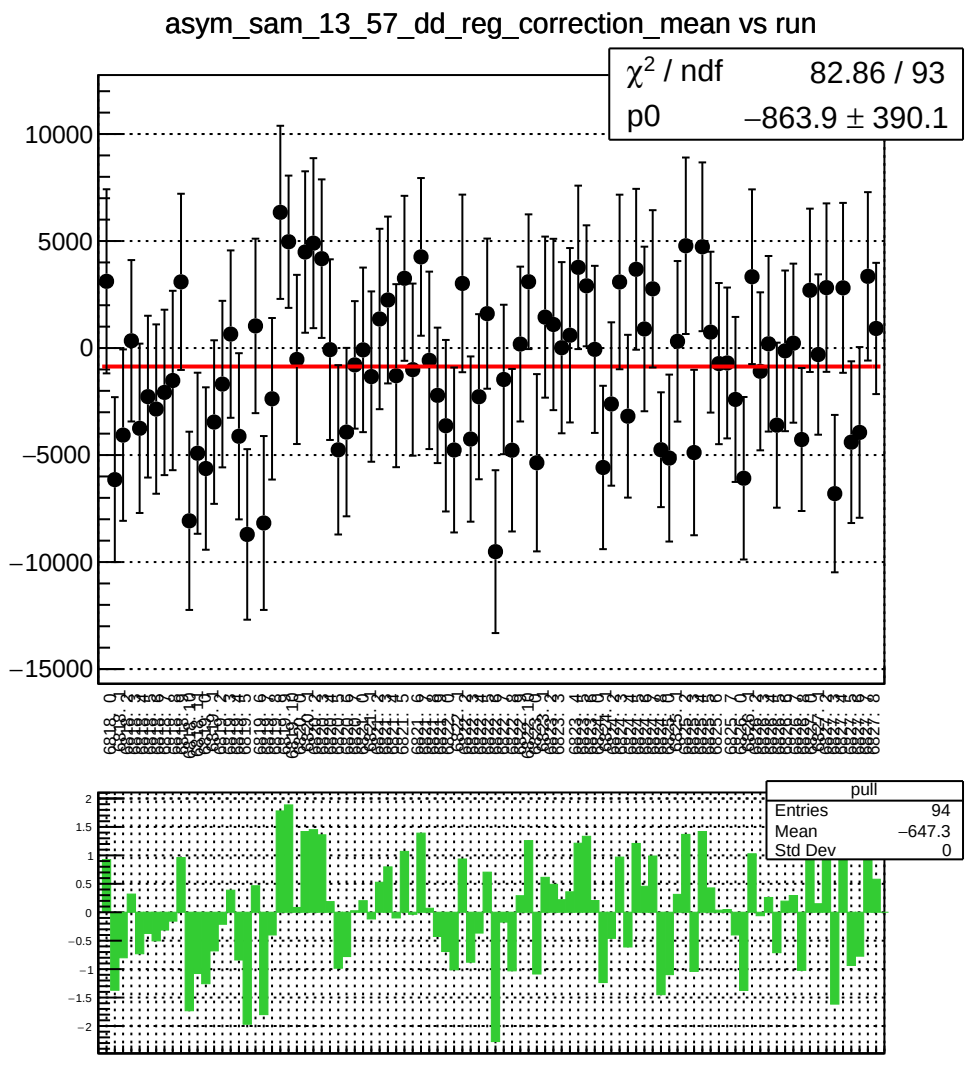

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.82 / 93
p0 −2.888e−14 ± 1.724e−14
pull
Entries 94
Mean 39.5
Std Dev 30.4

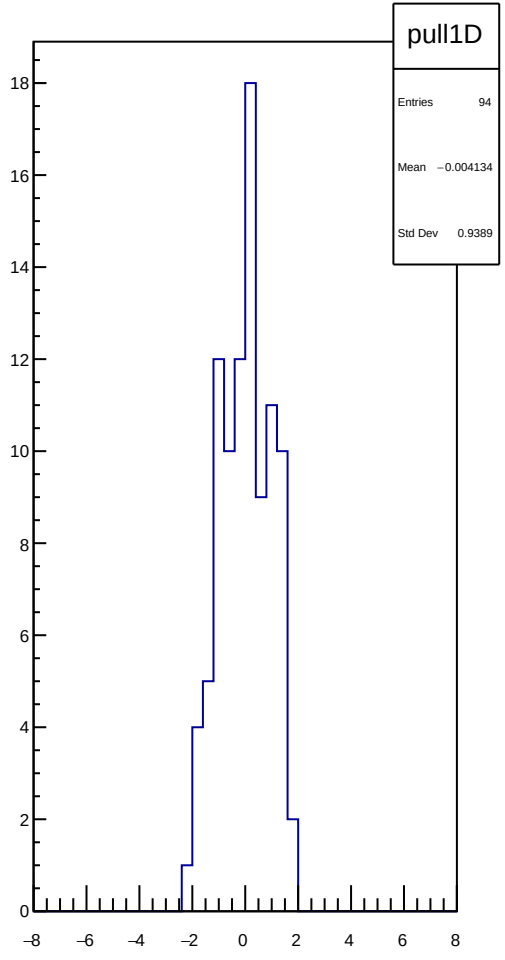

pull1D
Entries 94
Mean 0.08777
Std Dev 0.9736

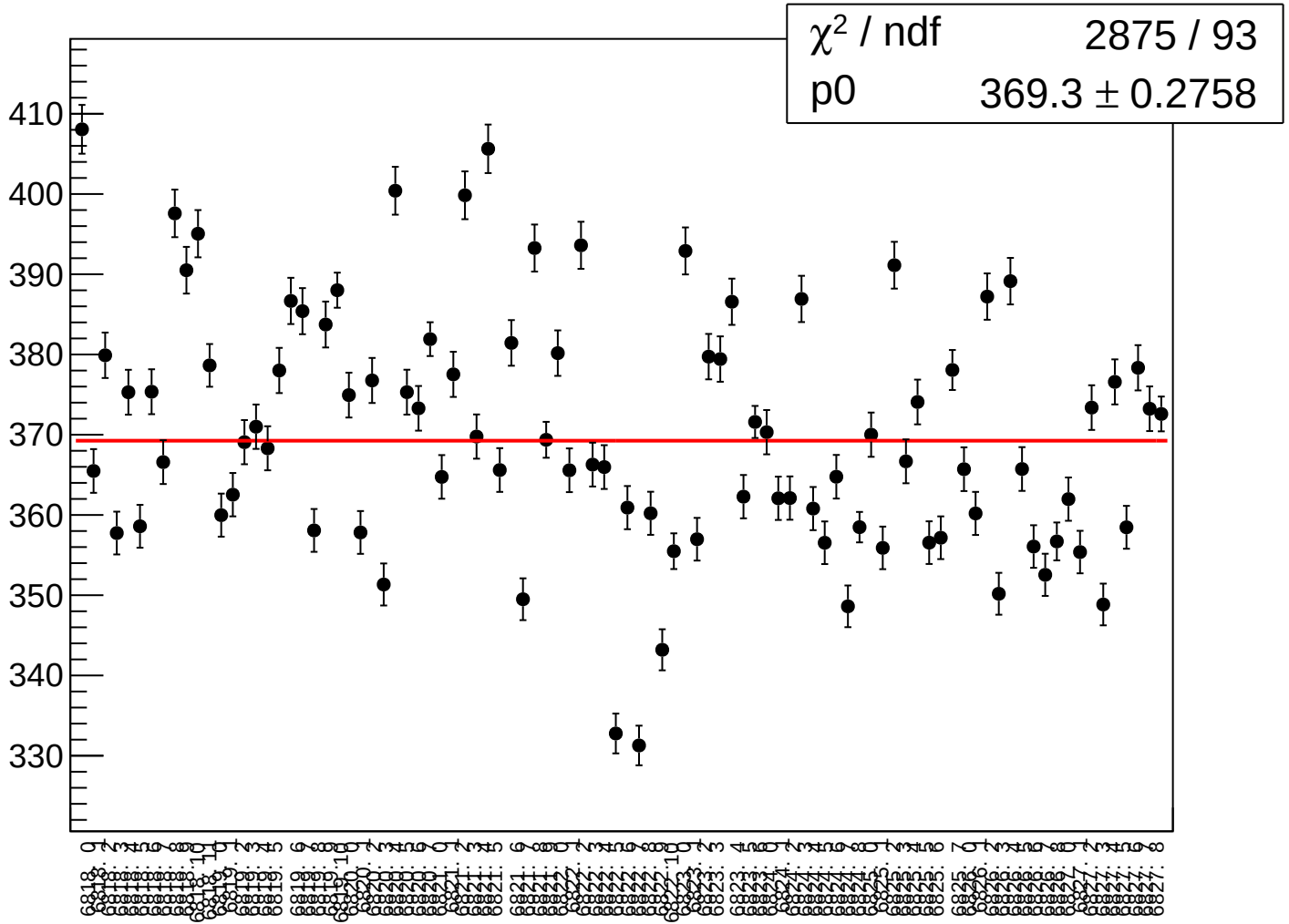

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.339e+05 / 93
p0 1.422e−11 ± 1.219e−14
70
60
50
40
30
20
10

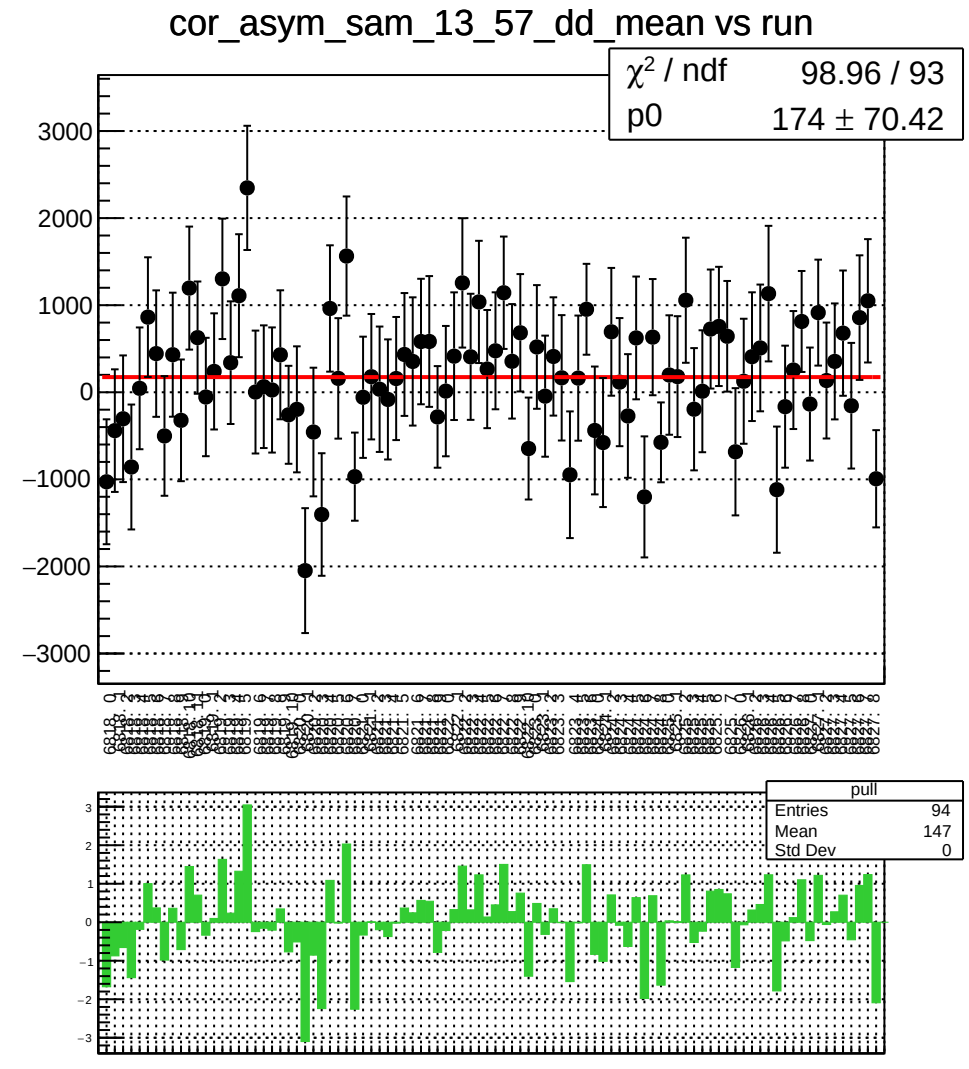

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.96 / 93
p0 174 ± 70.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 147
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01679
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

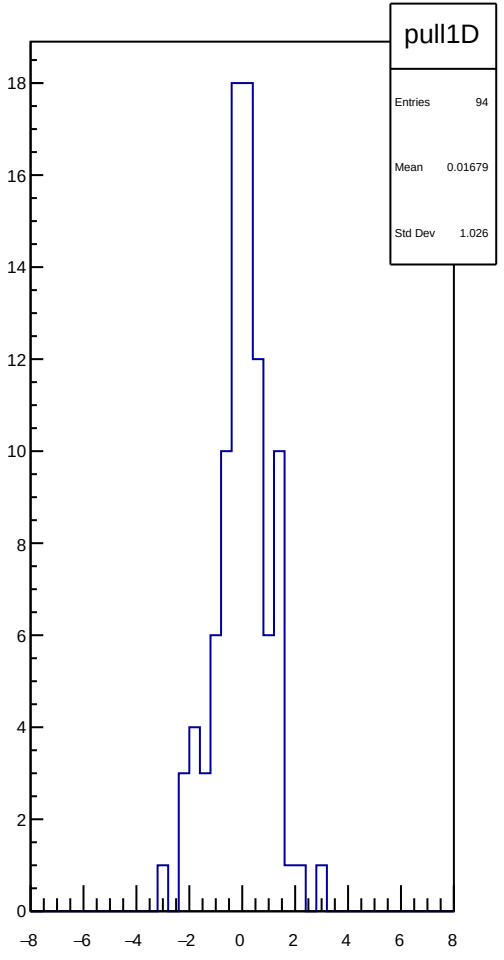

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2891 / 93
p0 66.66 ± 0.04979
76
74
72
70
68
66
64
62
60
58
56

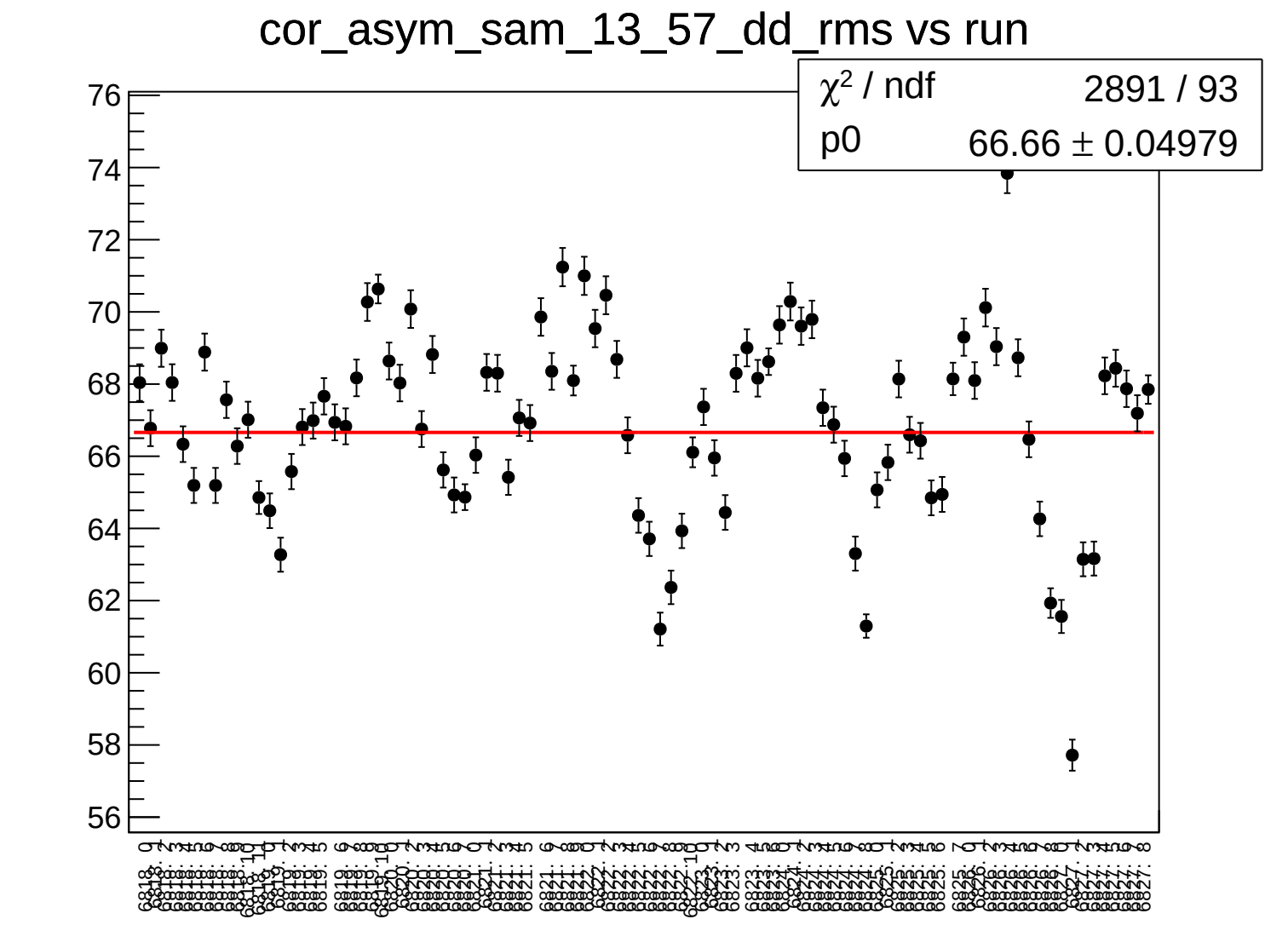

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 82.86 / 93
p0 −863.9 ± 390.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −647.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

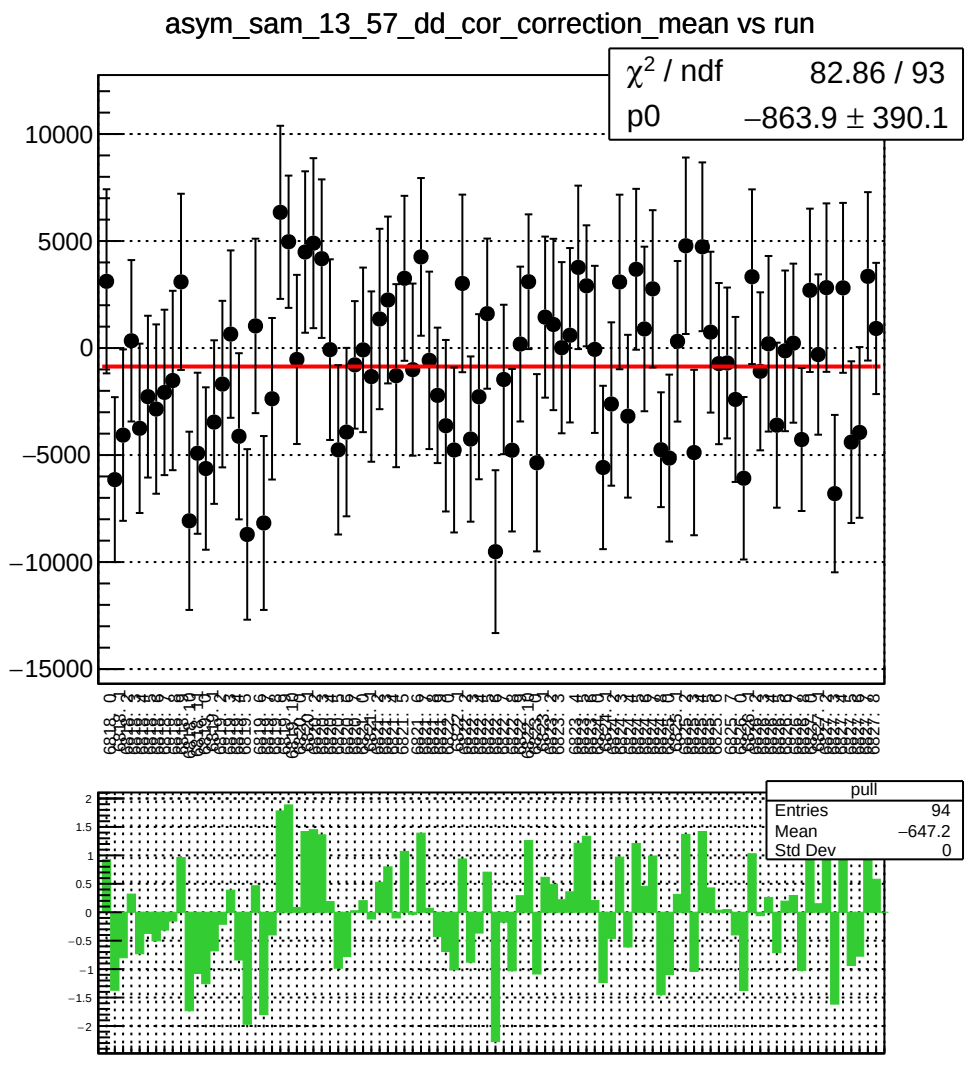

pull1D
Entries 94
Mean −0.004134
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

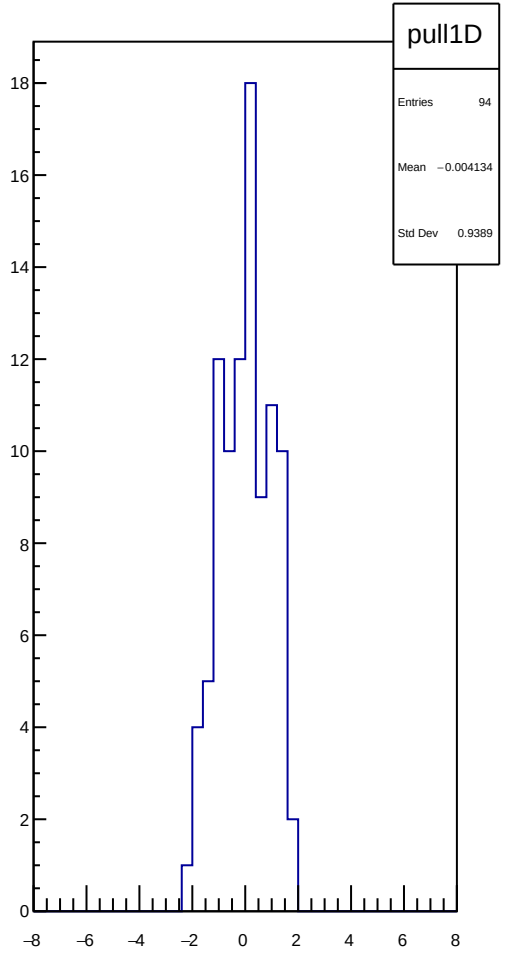

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2875 / 93
p0 369.3 ± 0.2758
410
400
390
380
370
360
350
340
330

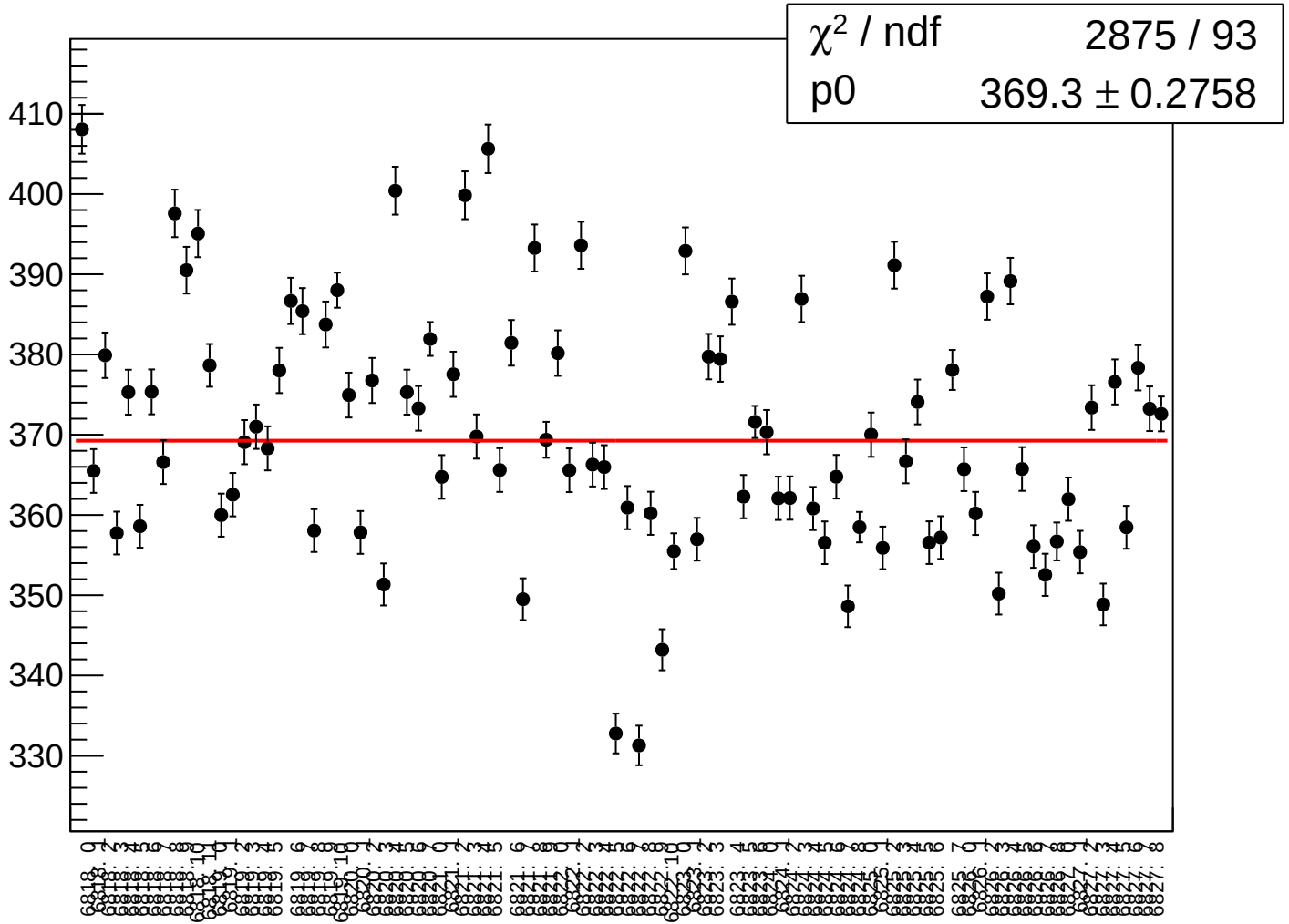

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.96 / 93
p0 174 ± 70.42
pull
Entries 94
Mean 147
Std Dev 0

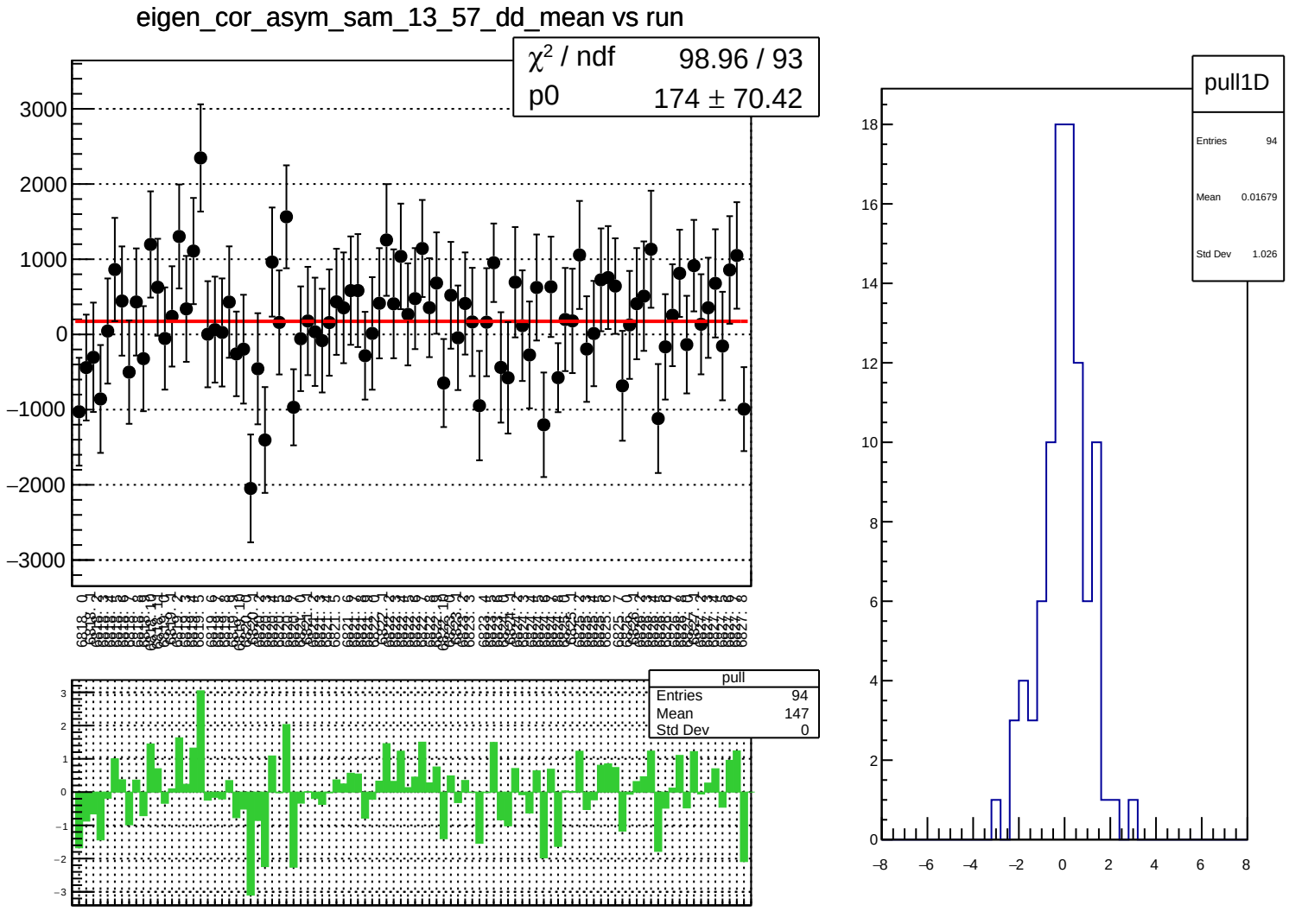

pull1D
Entries 94
Mean 0.01679
Std Dev 1.026

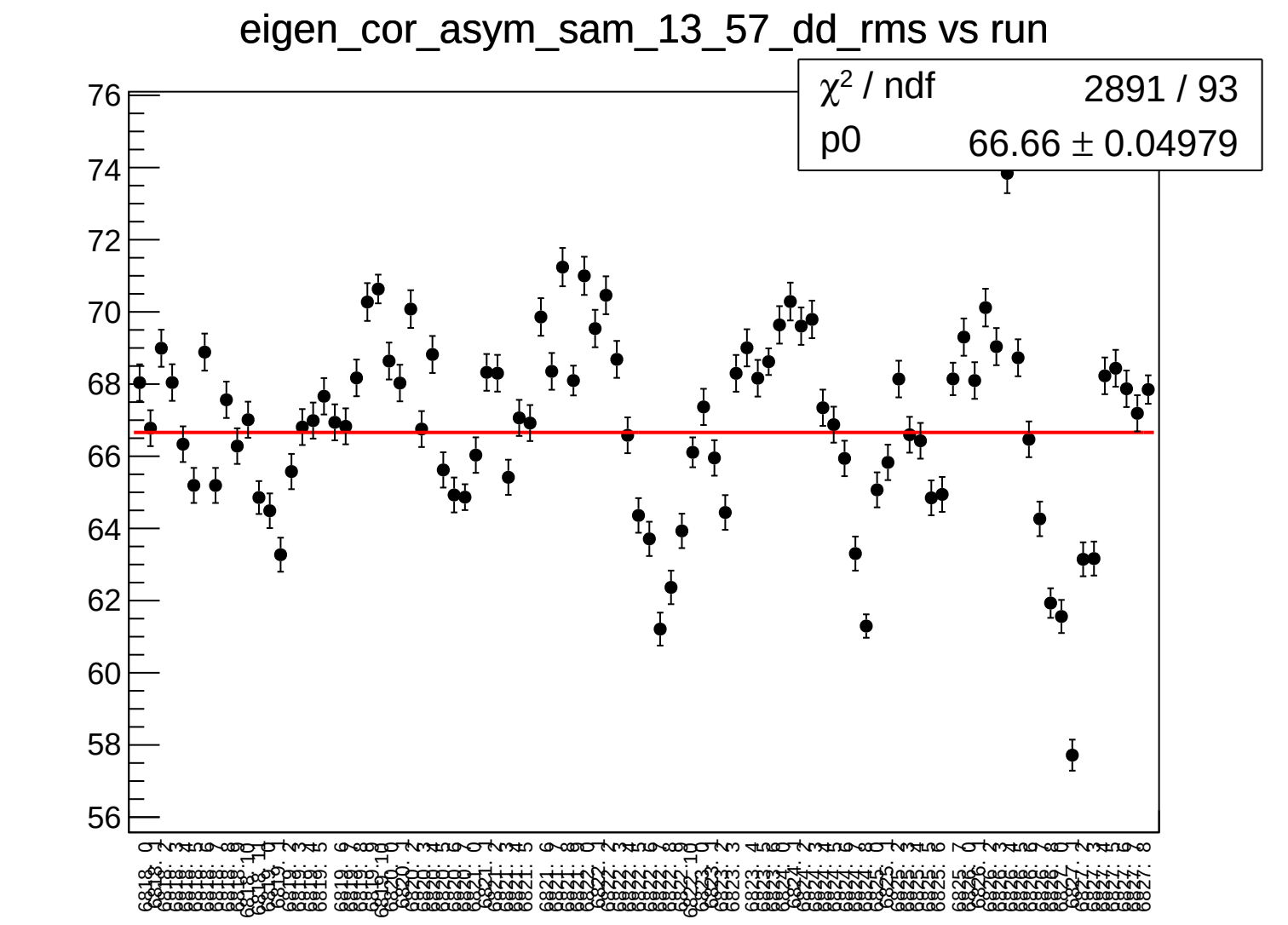

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2891 / 93
p0 66.66 ± 0.04979
76
74
72
70
68
66
64
62
60
58
56

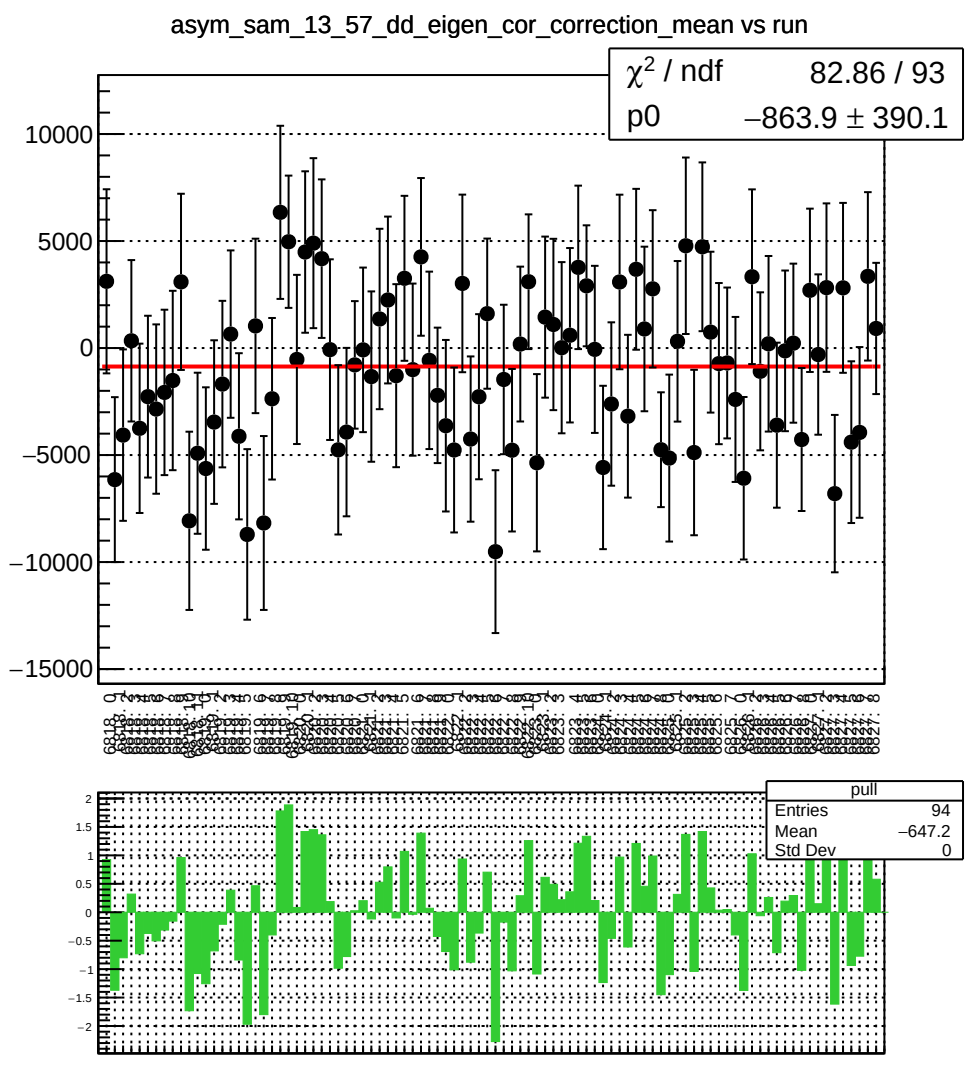

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 82.86 / 93
p0 −863.9 ± 390.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −647.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

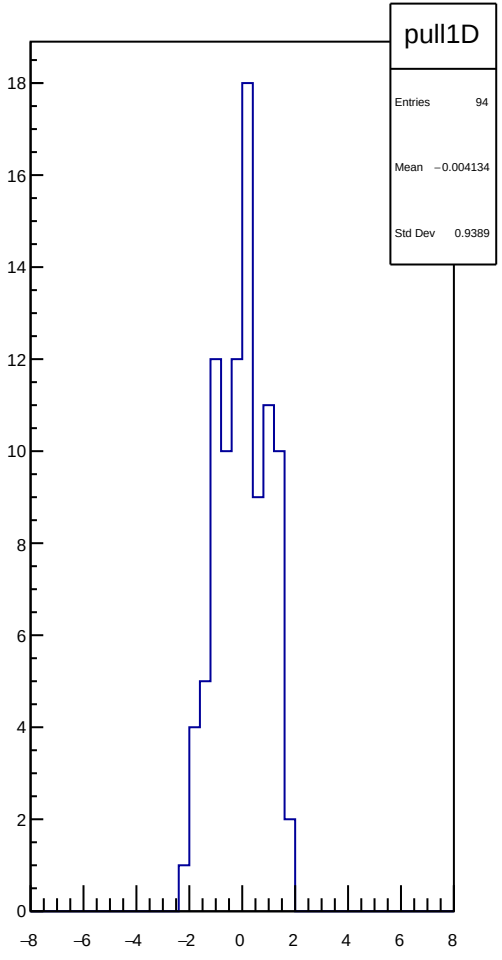

pull1D
Entries 94
Mean −0.004134
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

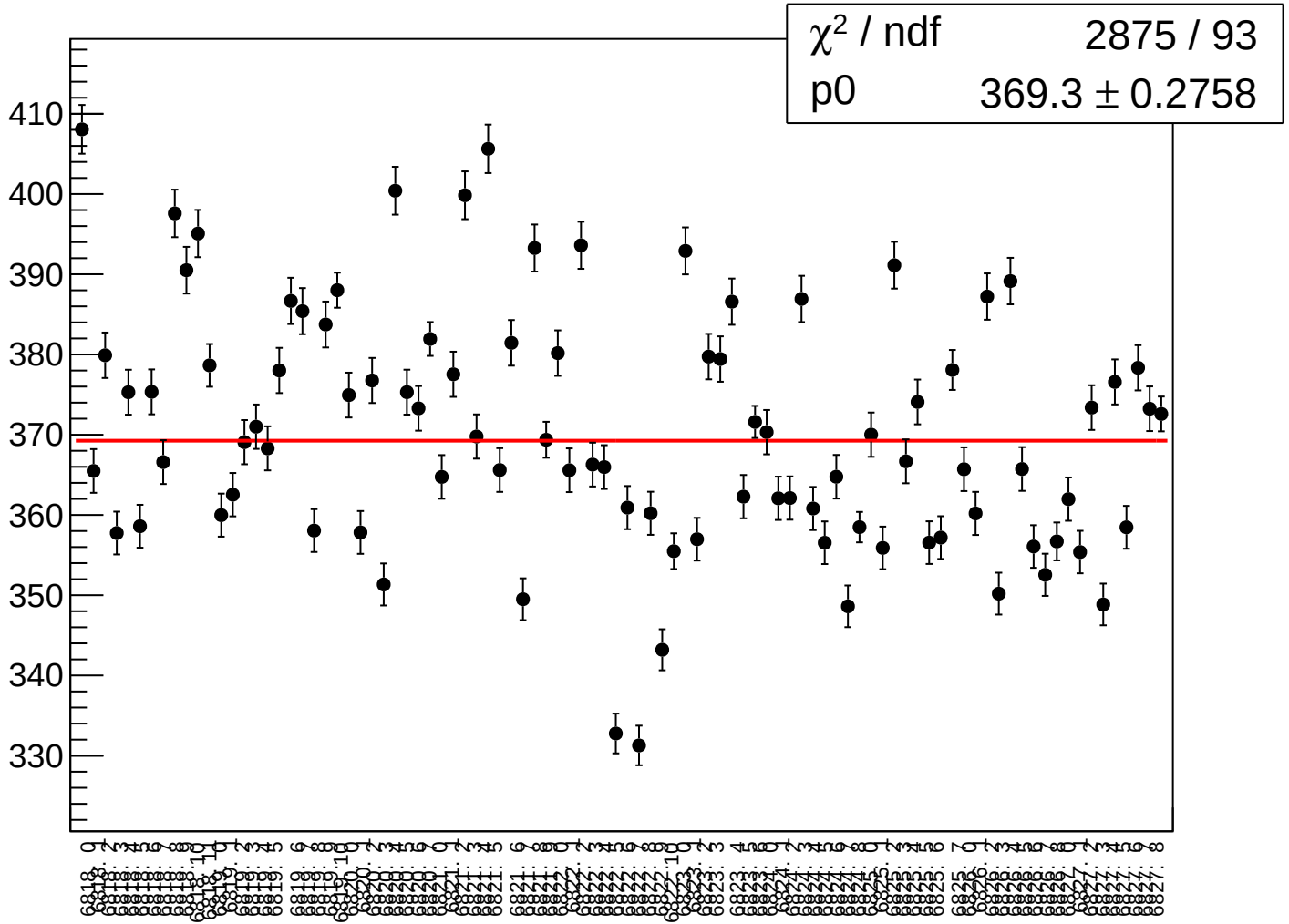

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2875 / 93
p0 369.3 ± 0.2758
410
400
390
380
370
360
350
340
330

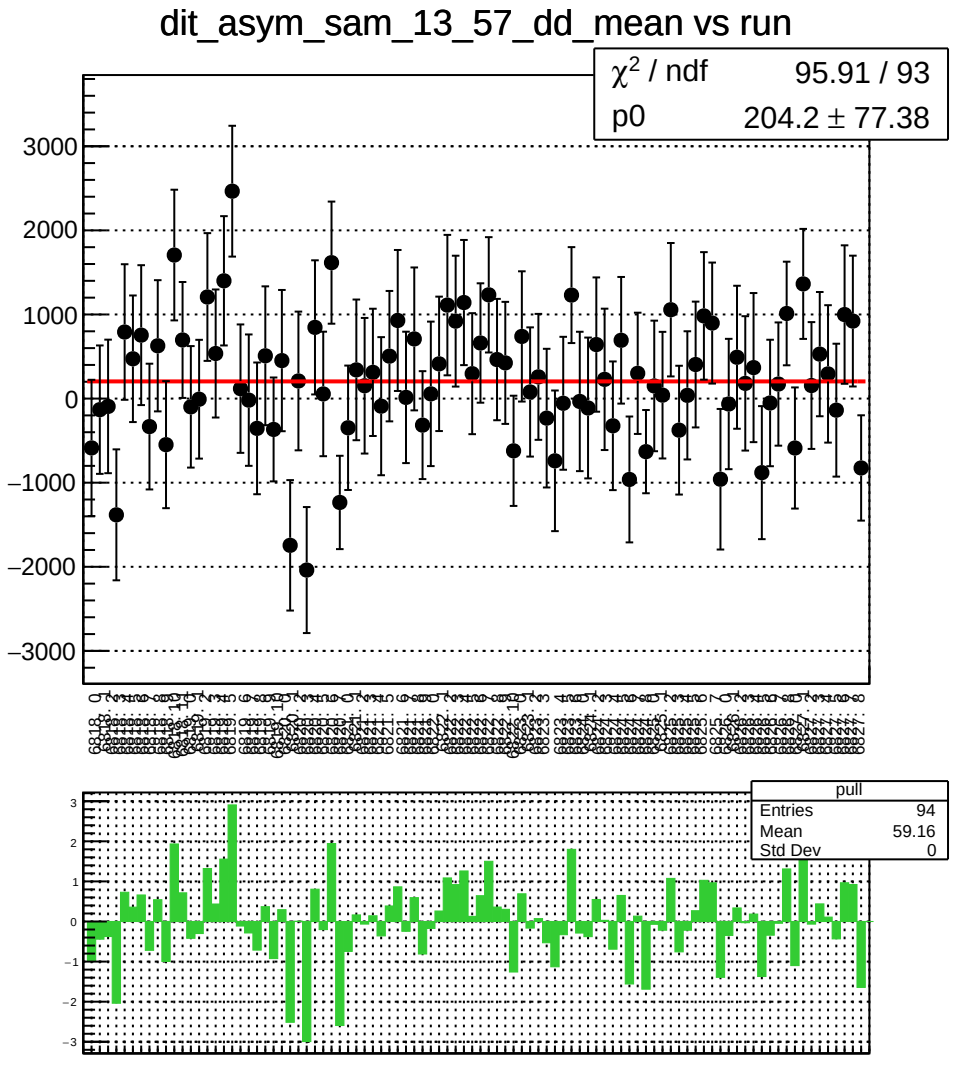

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 98.96 / 93
p0 174 ± 70.42
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 147
Std Dev 0
pull1D
Entries 94
Mean 0.01679
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

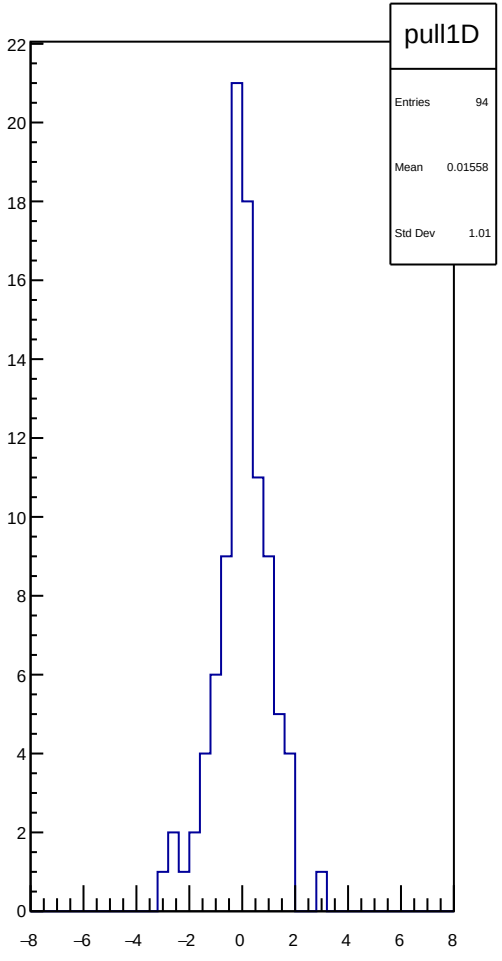

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 2891 / 93
p0 66.66 ± 0.04979
76
74
72
70
68
66
64
62
60
58
56

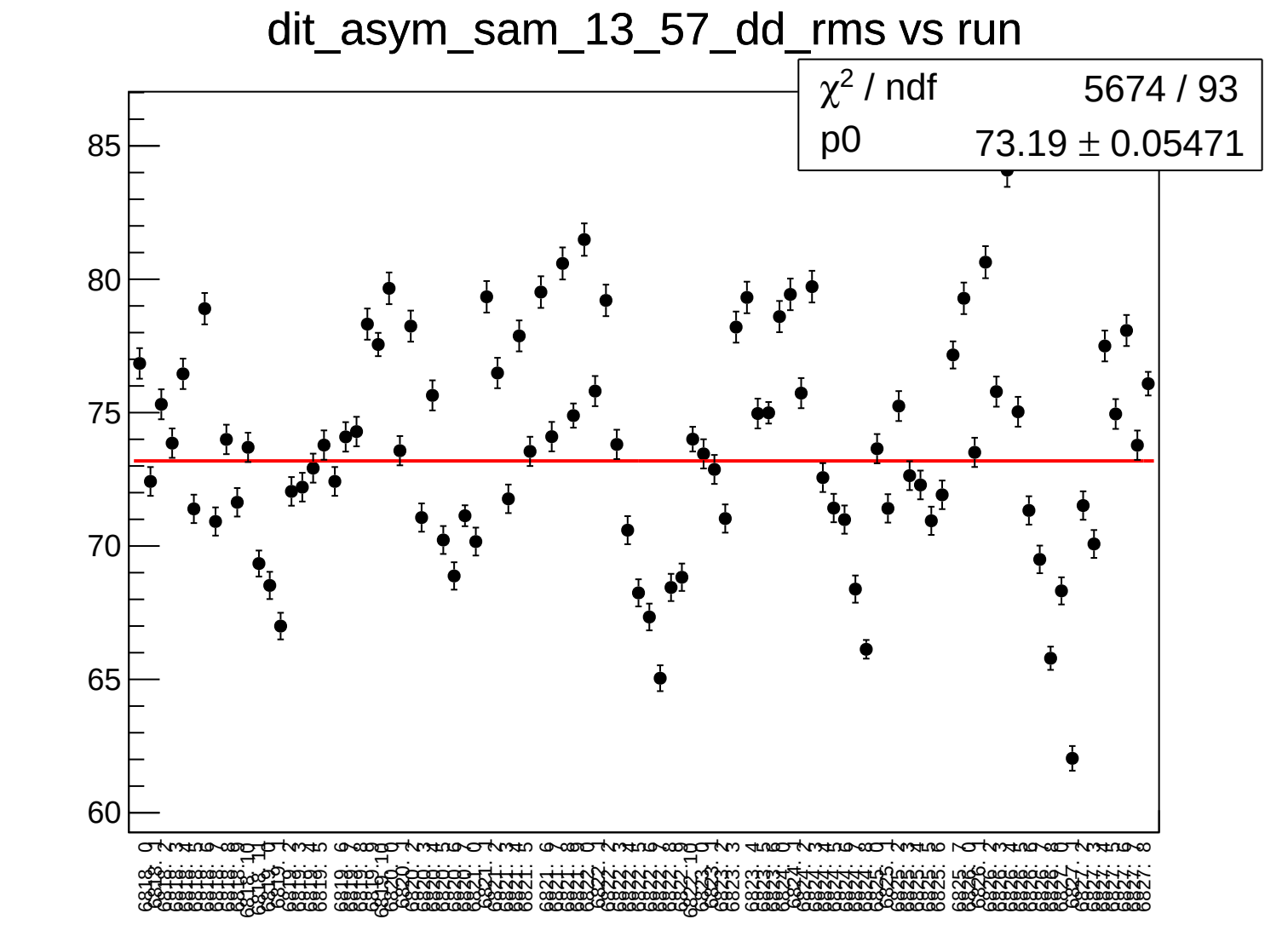

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.86 / 93
p0 −863.9 ± 390.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −647.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

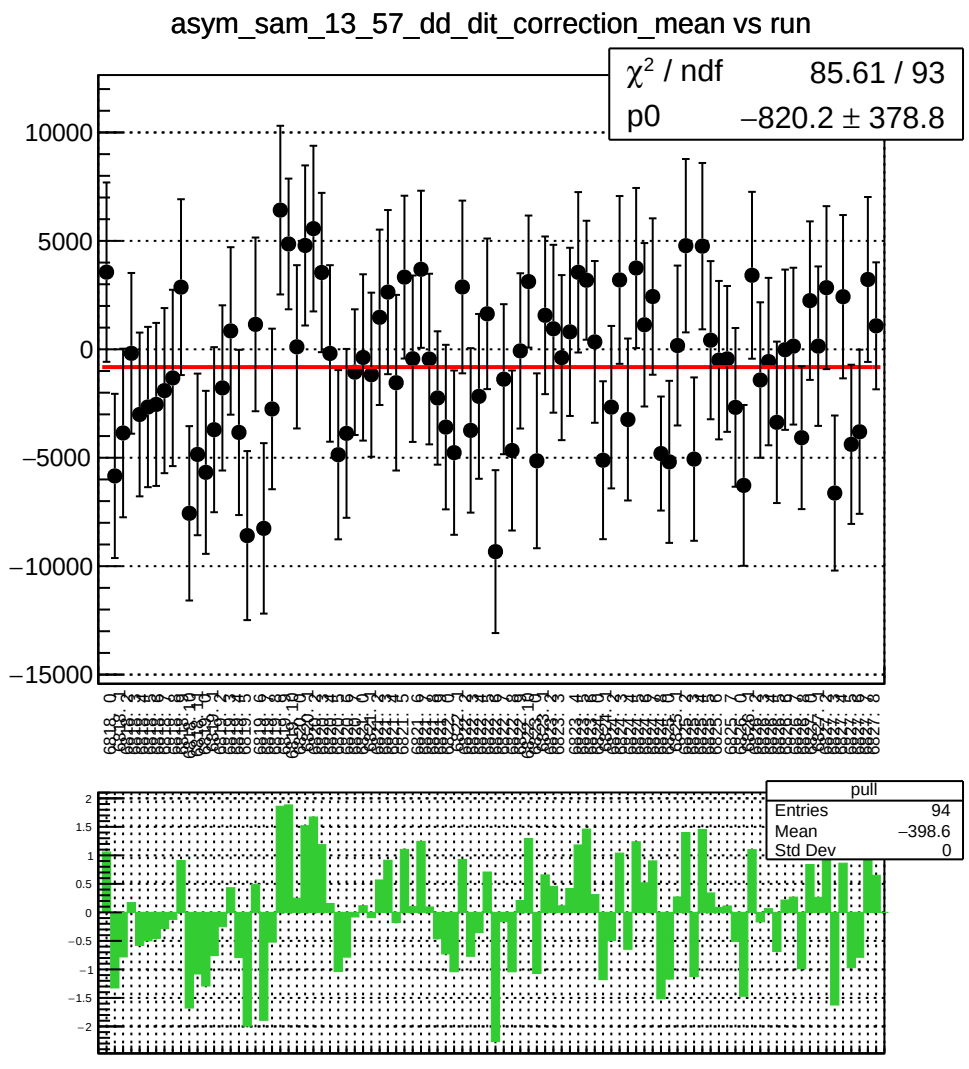

pull1D
Entries 94
Mean −0.004134
Std Dev 0.9389
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

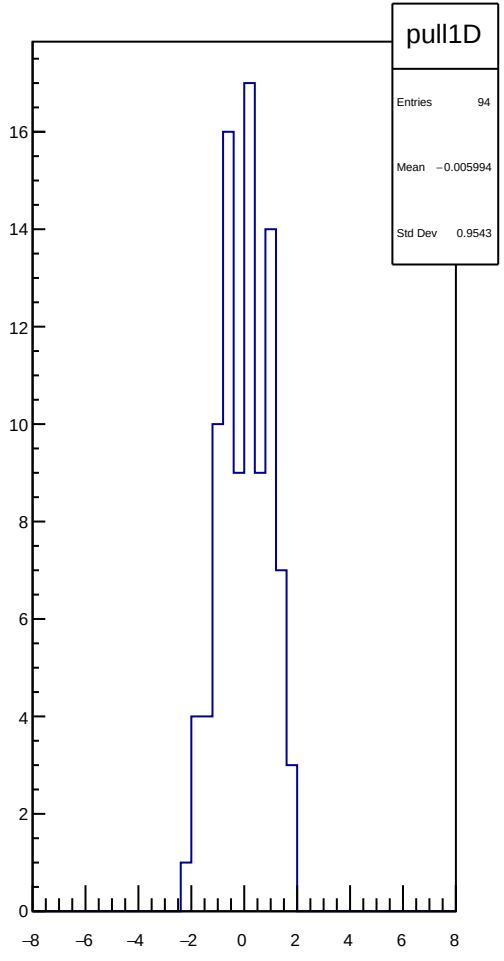

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2875 / 93
p0 369.3 ± 0.2758
410
400
390
380
370
360
350
340
330

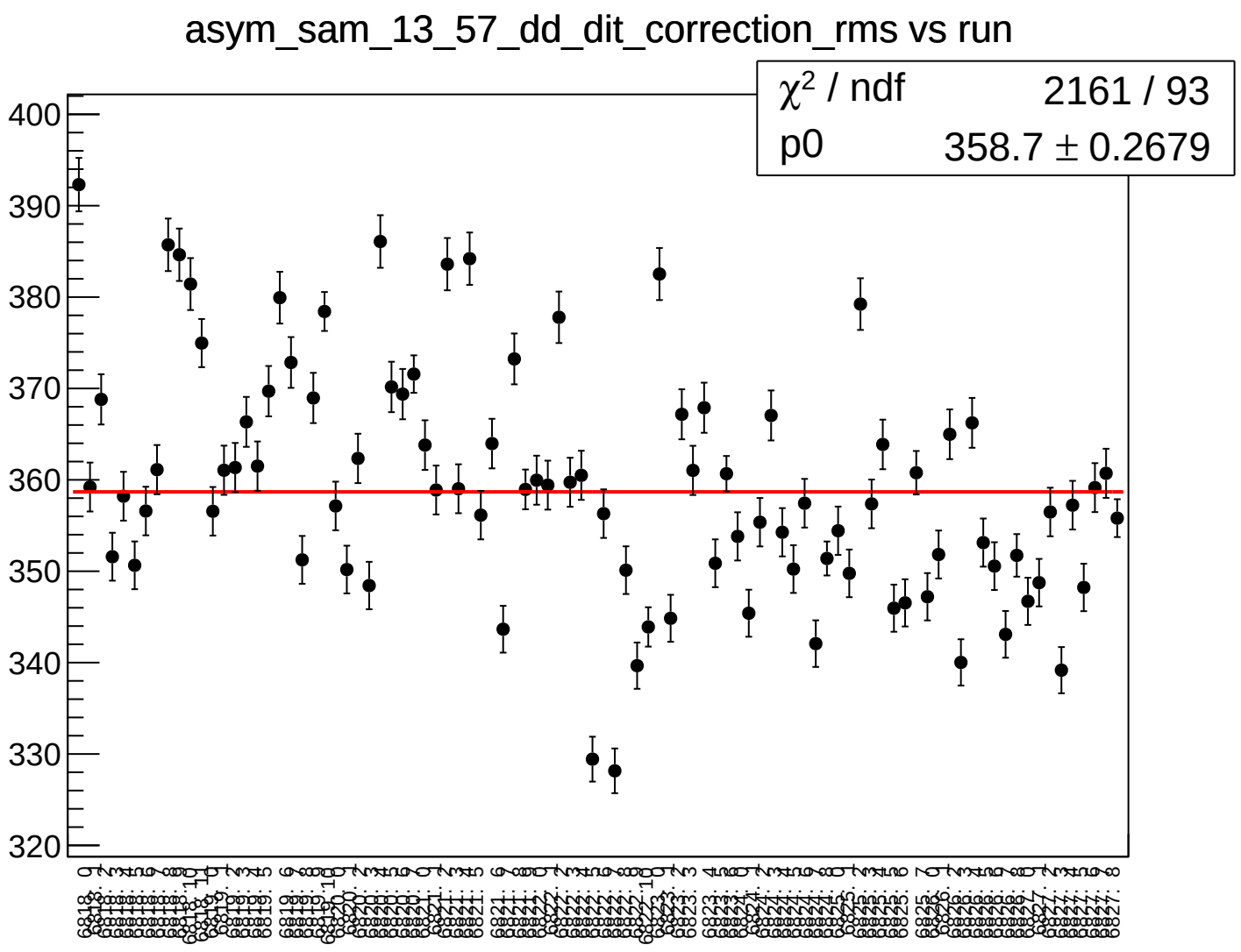

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.91 / 93
p0 204.2 ± 77.38
pull
Entries 94
Mean 59.16
Std Dev 0

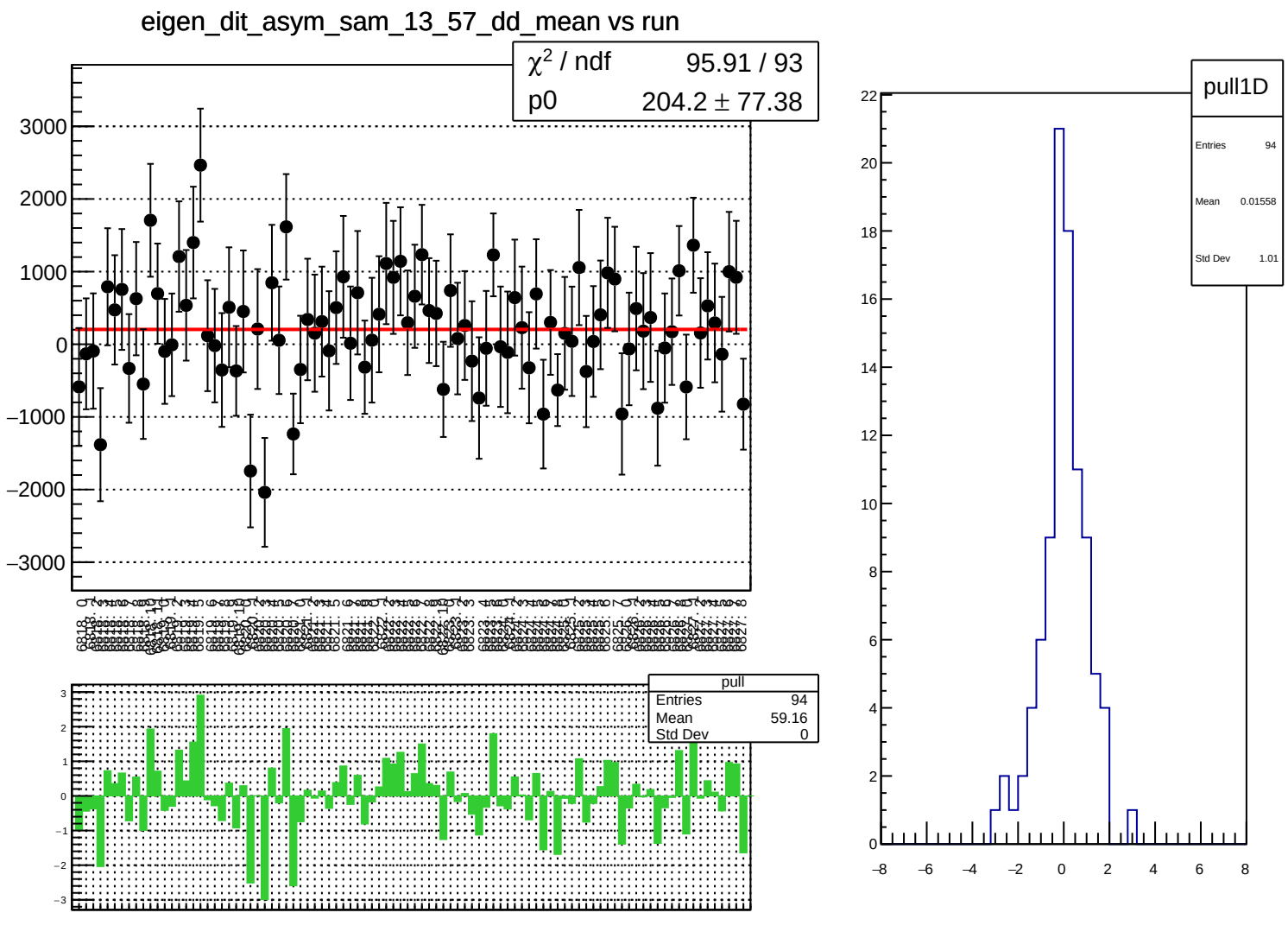

pull1D
Entries 94
Mean 0.01558
Std Dev 1.01

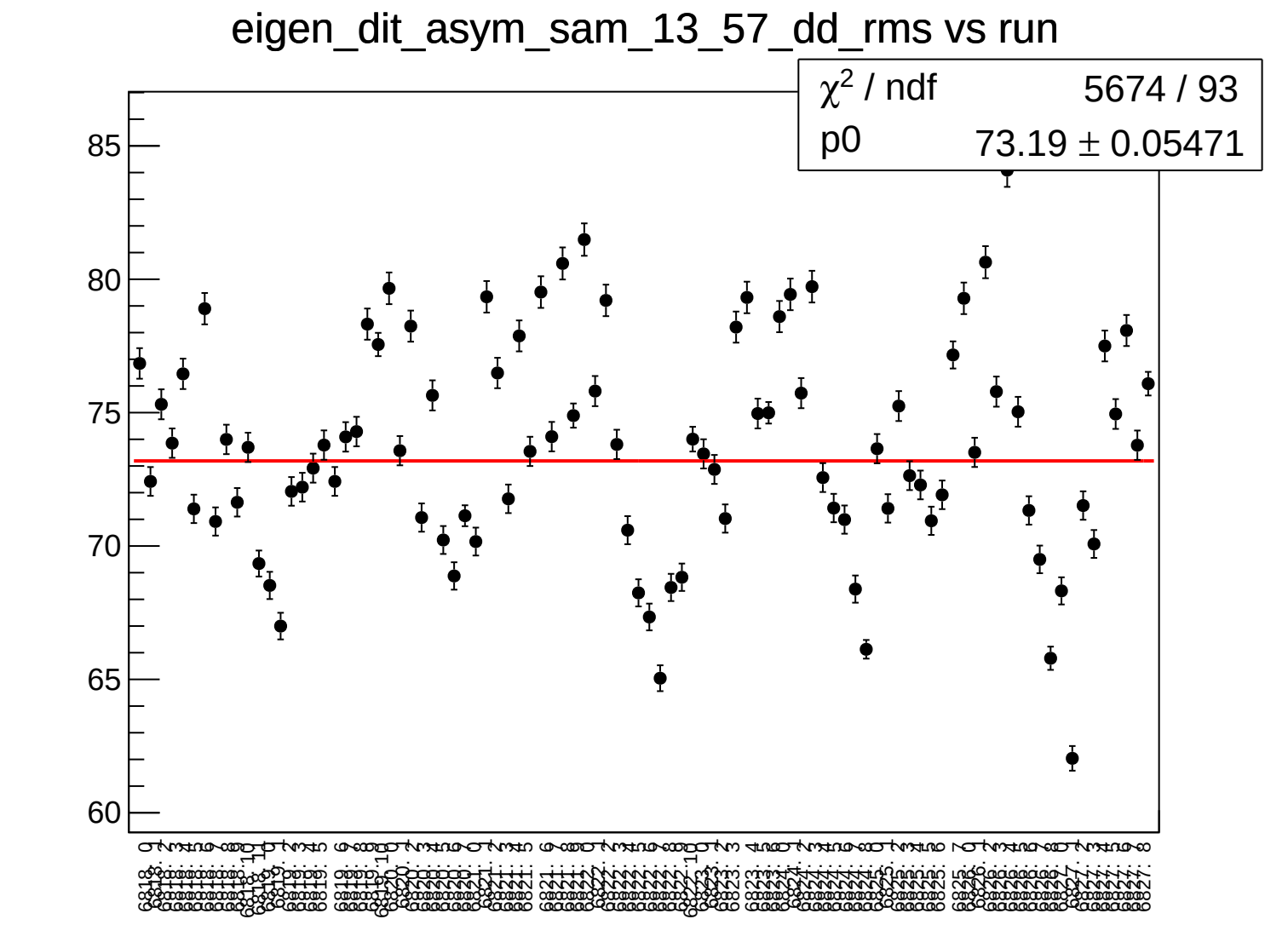

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5674 / 93
p0 73.19 ± 0.05471
85
80
75
70
65
60

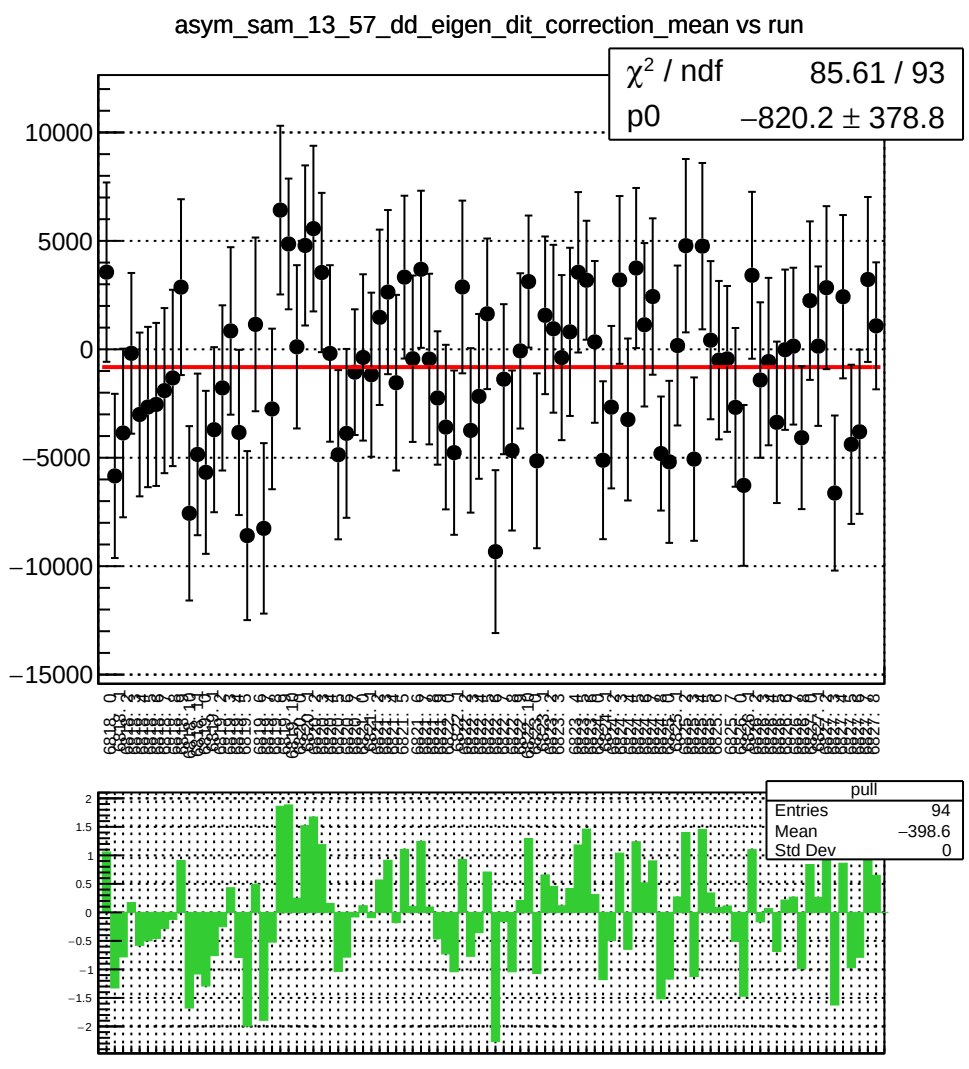

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 85.61 / 93
p0 −820.2 ± 378.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −398.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

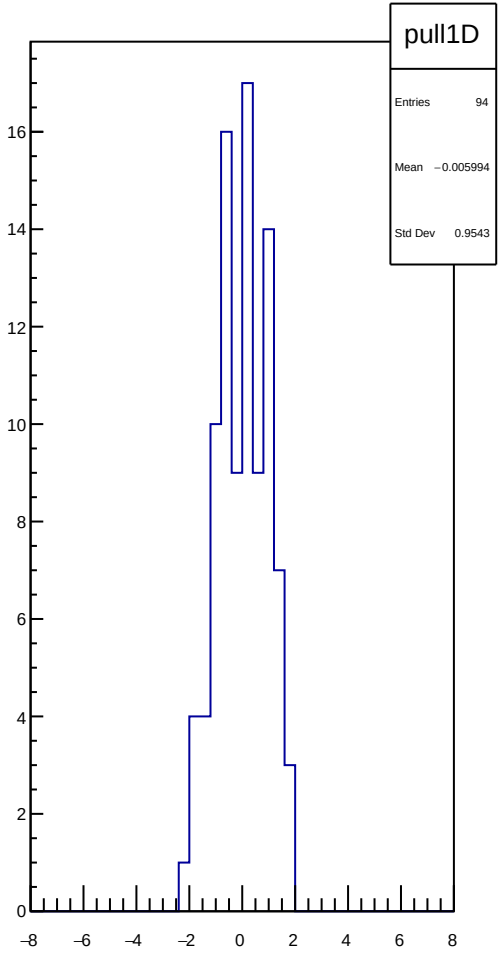

pull1D
Entries 94
Mean −0.005994
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

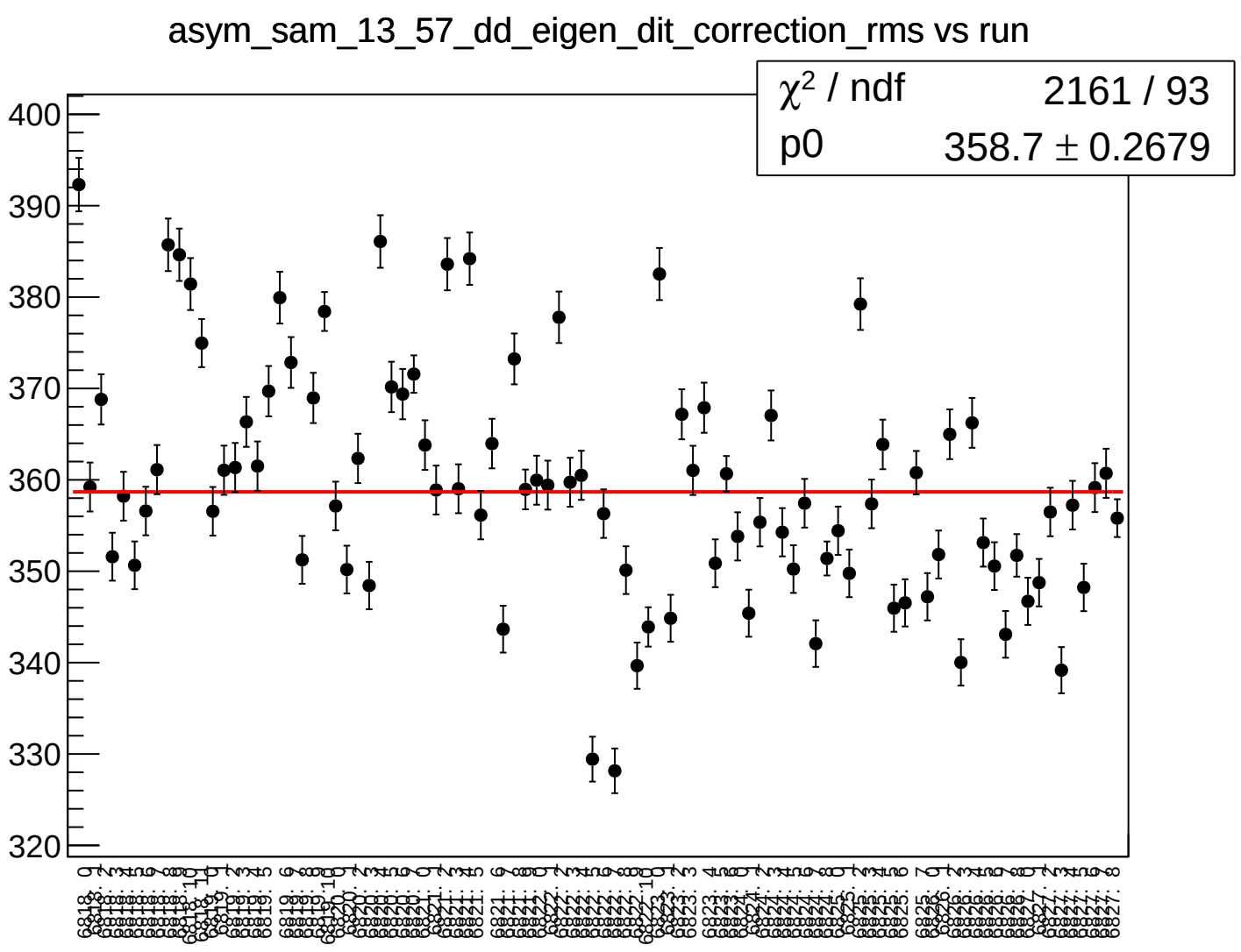

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 2161 / 93
p0 358.7 ± 0.2679
400
390
380
370
360
350
340
330
320

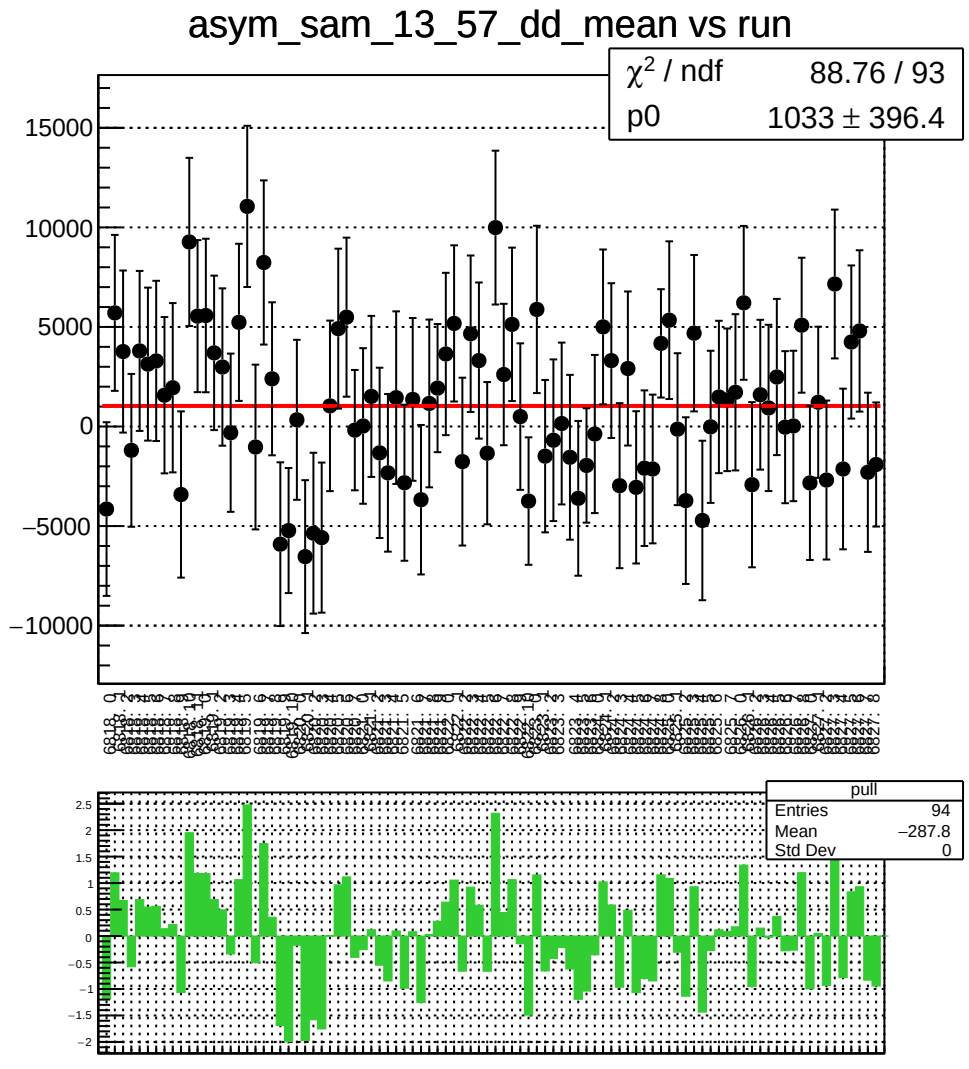

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.91 / 93
p0 204.2 ± 77.38
pull
Entries 94
Mean 59.16
Std Dev 0
pull1D
Entries 94
Mean 0.01558
Std Dev 1.01

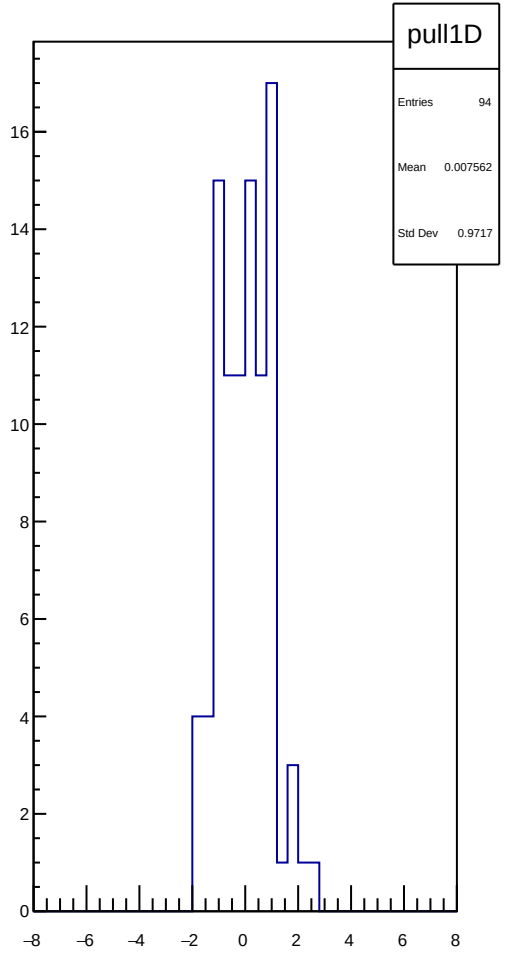

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 5674 / 93
p0 73.19 ± 0.05471
85
80
75
70
65
60

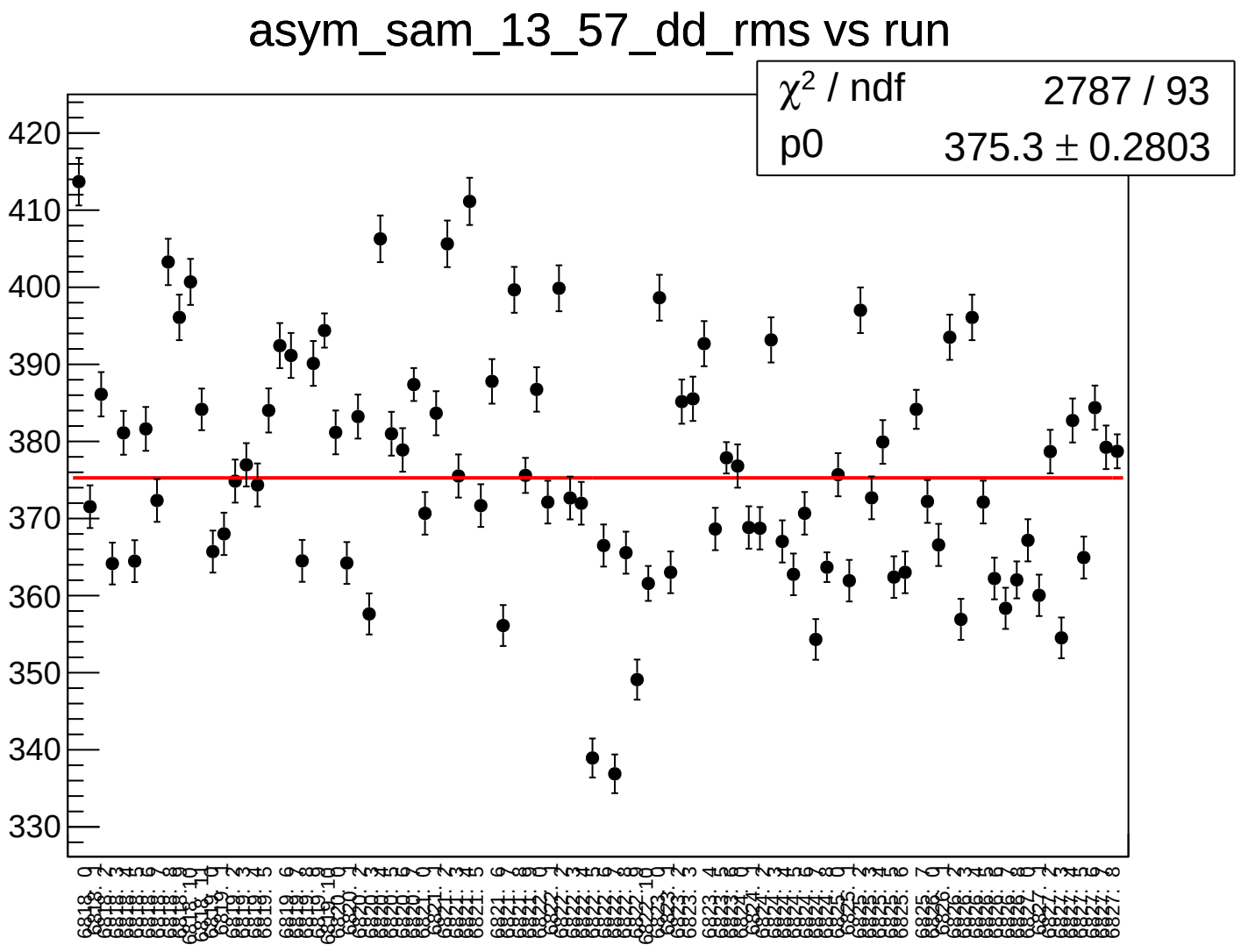

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.61 / 93
p0 −820.2 ± 378.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −398.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

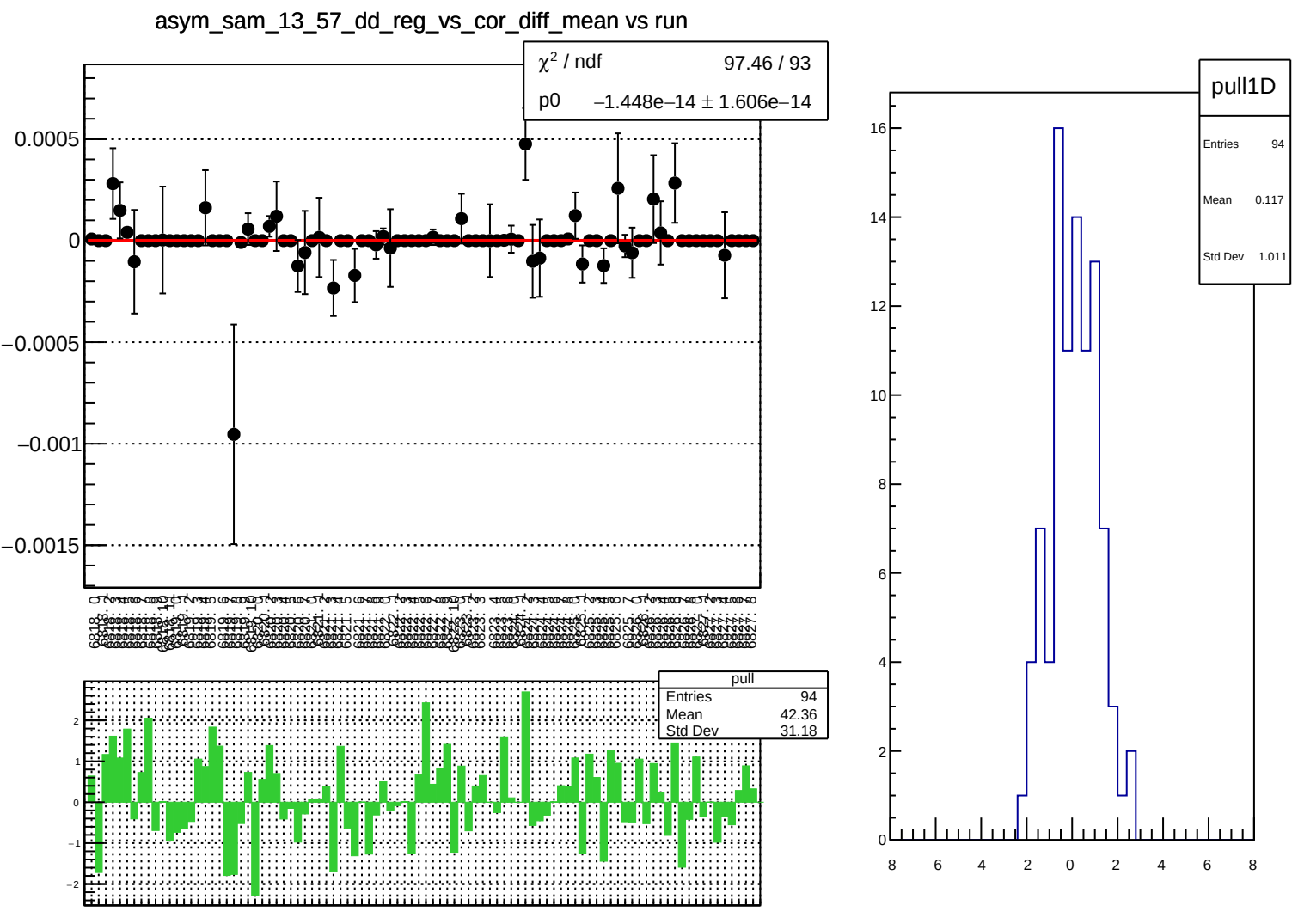

pull1D
Entries 94
Mean −0.005994
Std Dev 0.9543
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

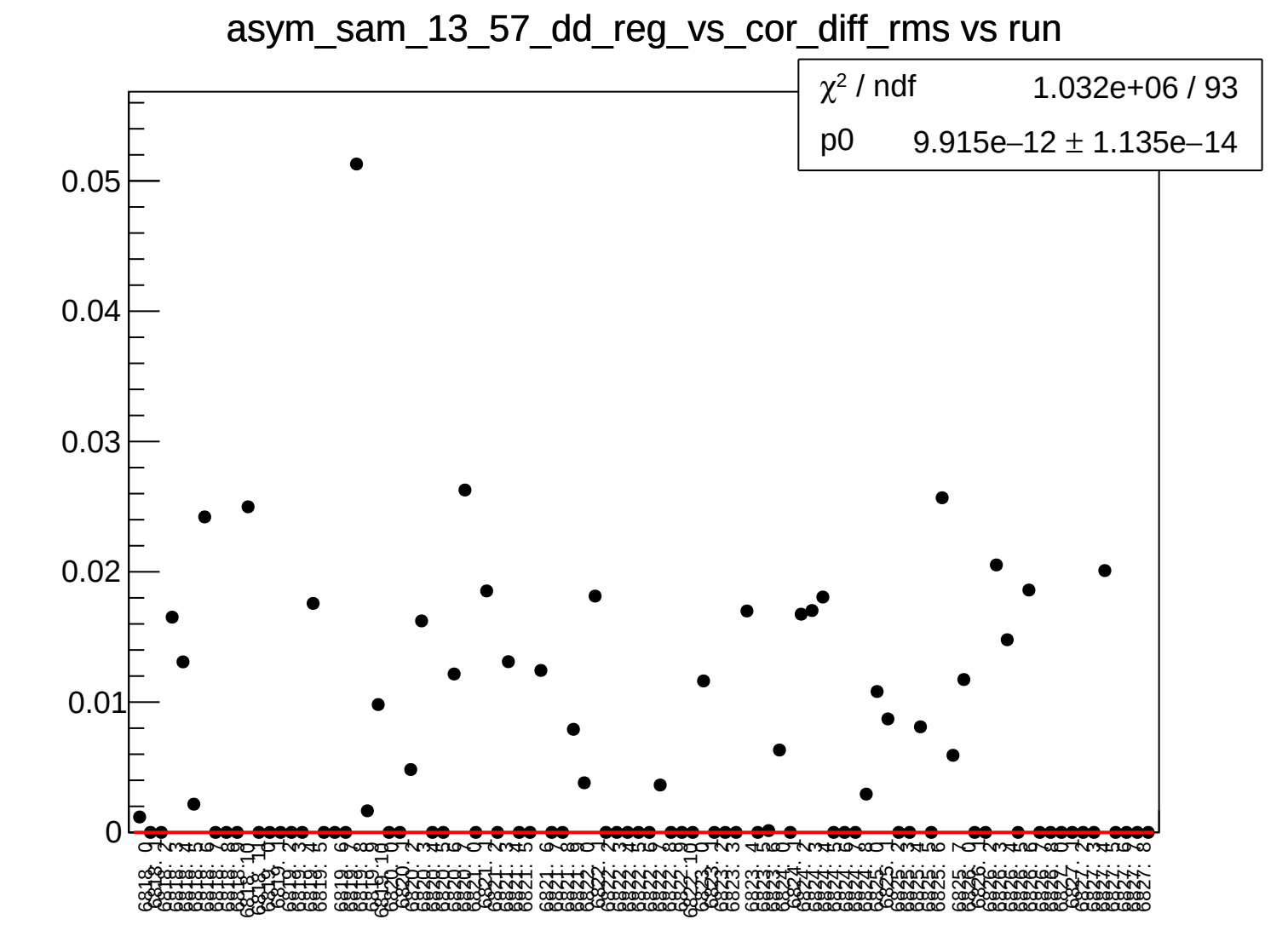

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 2161 / 93
p0 358.7 ± 0.2679
400
390
380
370
360
350
340
330
320

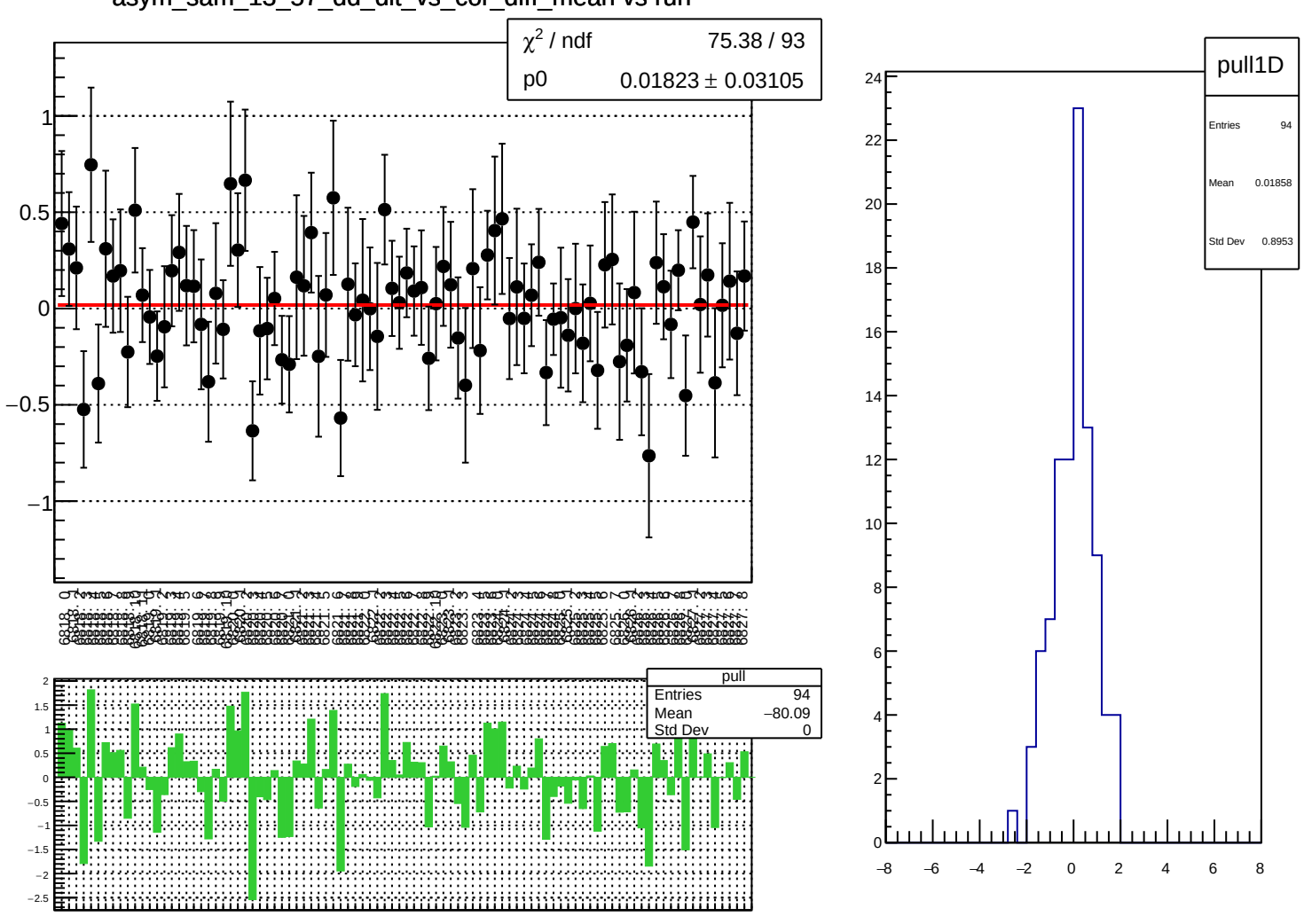

asym_sam_13_57_dd_mean vs run
χ² / ndf 88.76 / 93
p0 1033 ± 396.4
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −287.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

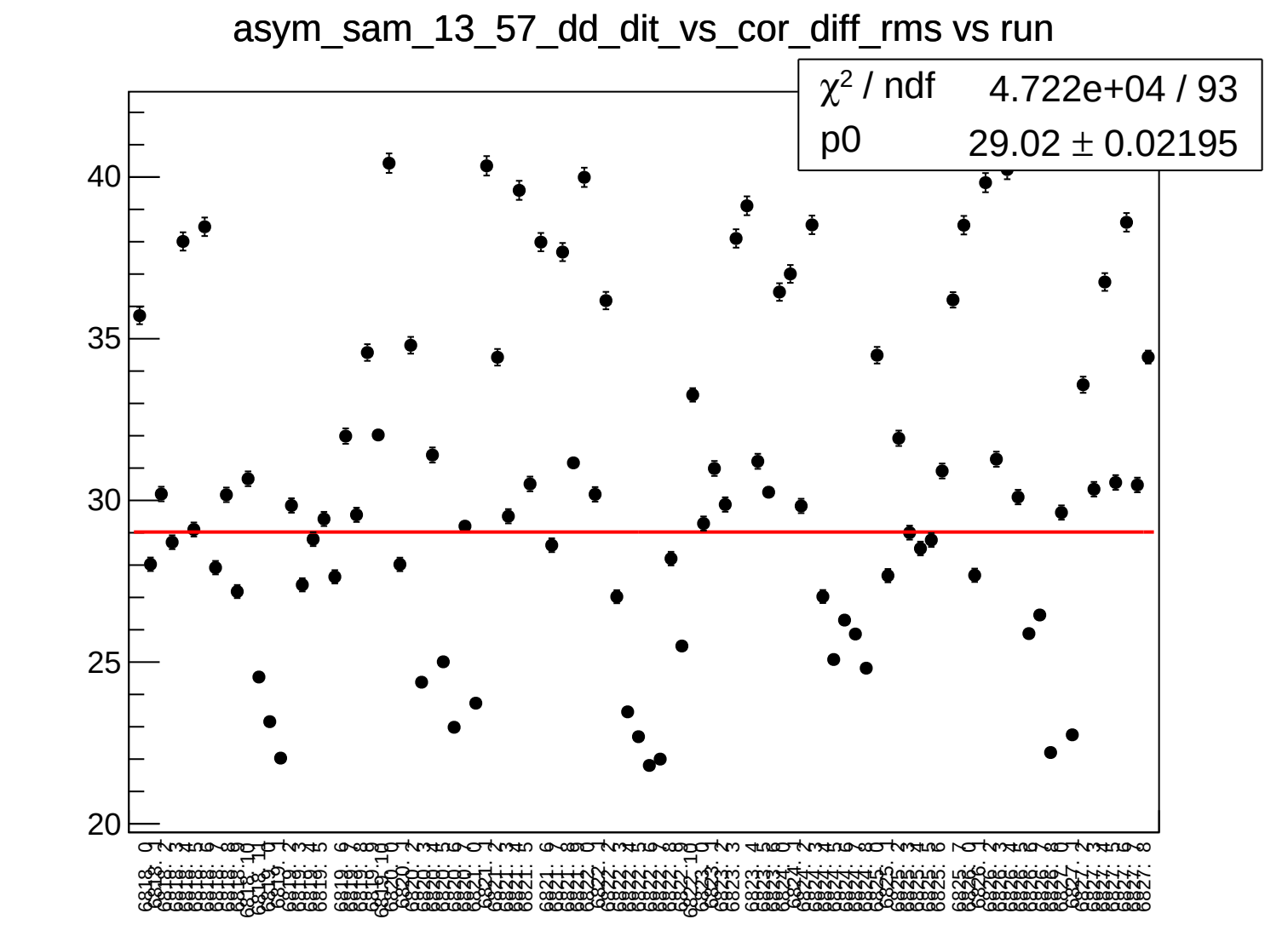

pull1D
Entries 94
Mean 0.007562
Std Dev 0.9717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

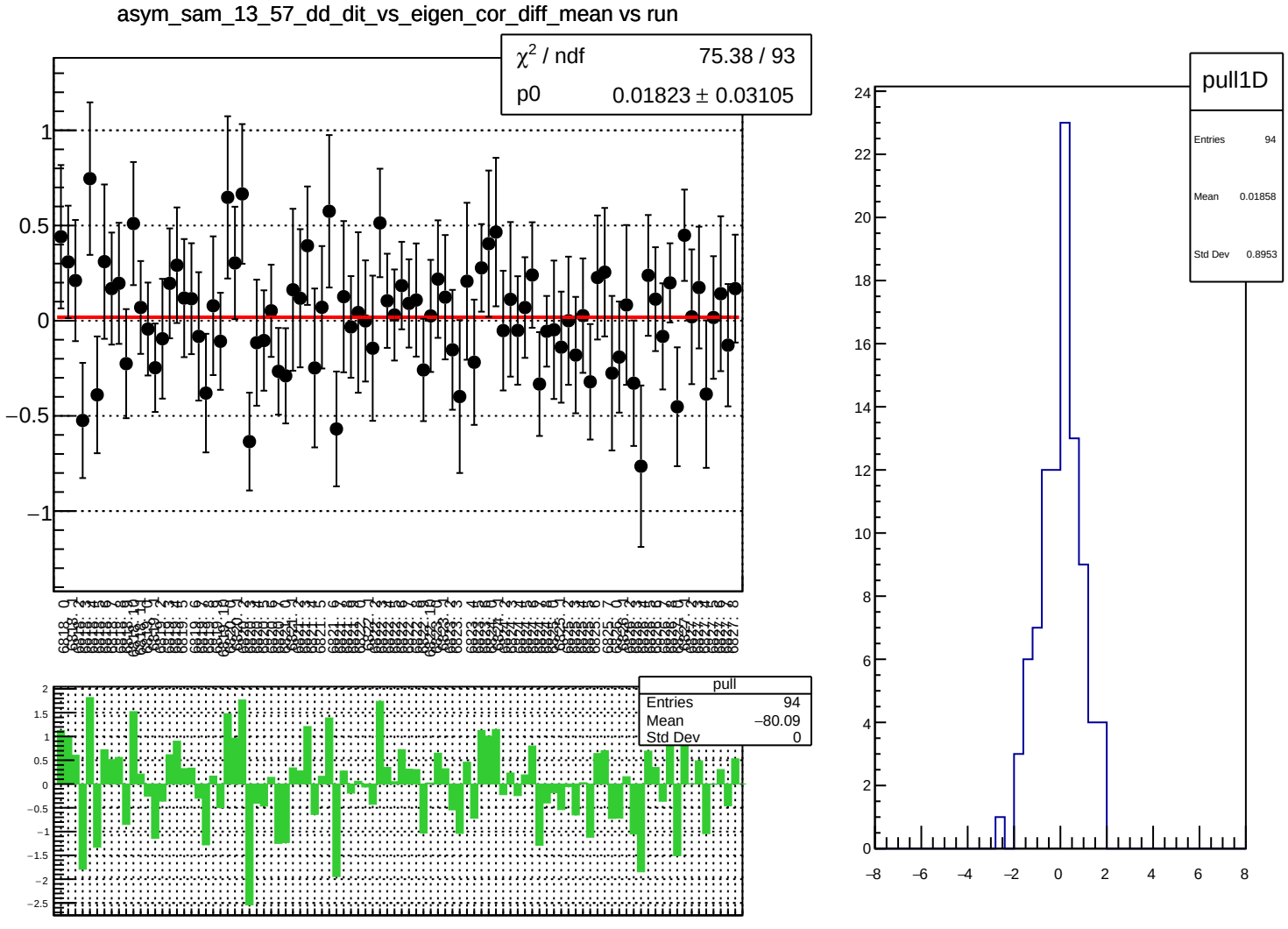

asym_sam_13_57_dd_rms vs run
χ² / ndf 2787 / 93
p0 375.3 ± 0.2803
420
410
400
390
380
370
360
350
340
330

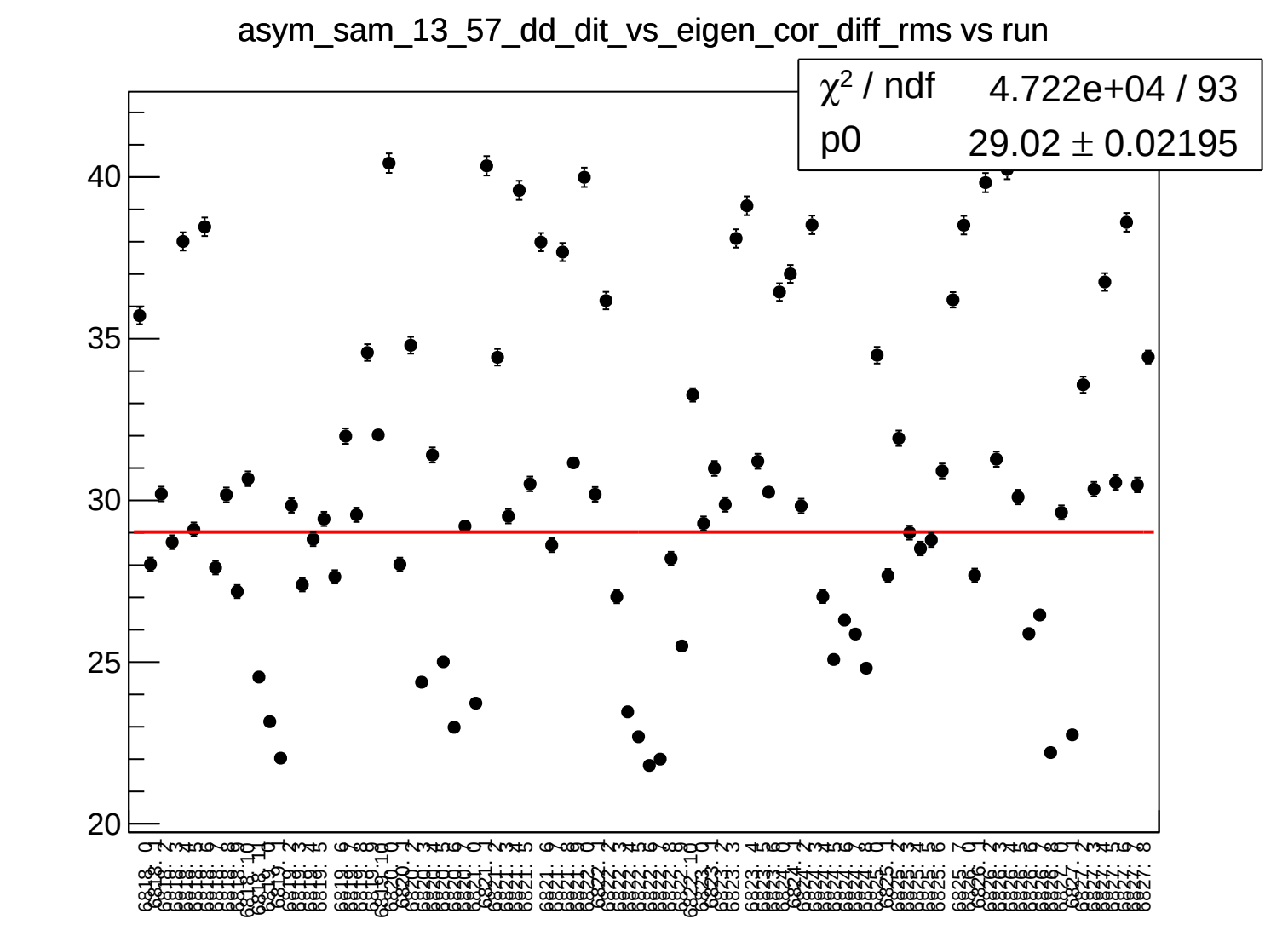

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.46 / 93
p0 −1.448e−14 ± 1.606e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 42.36
Std Dev 31.18
pull1D
Entries 94
Mean 0.117
Std Dev 1.011

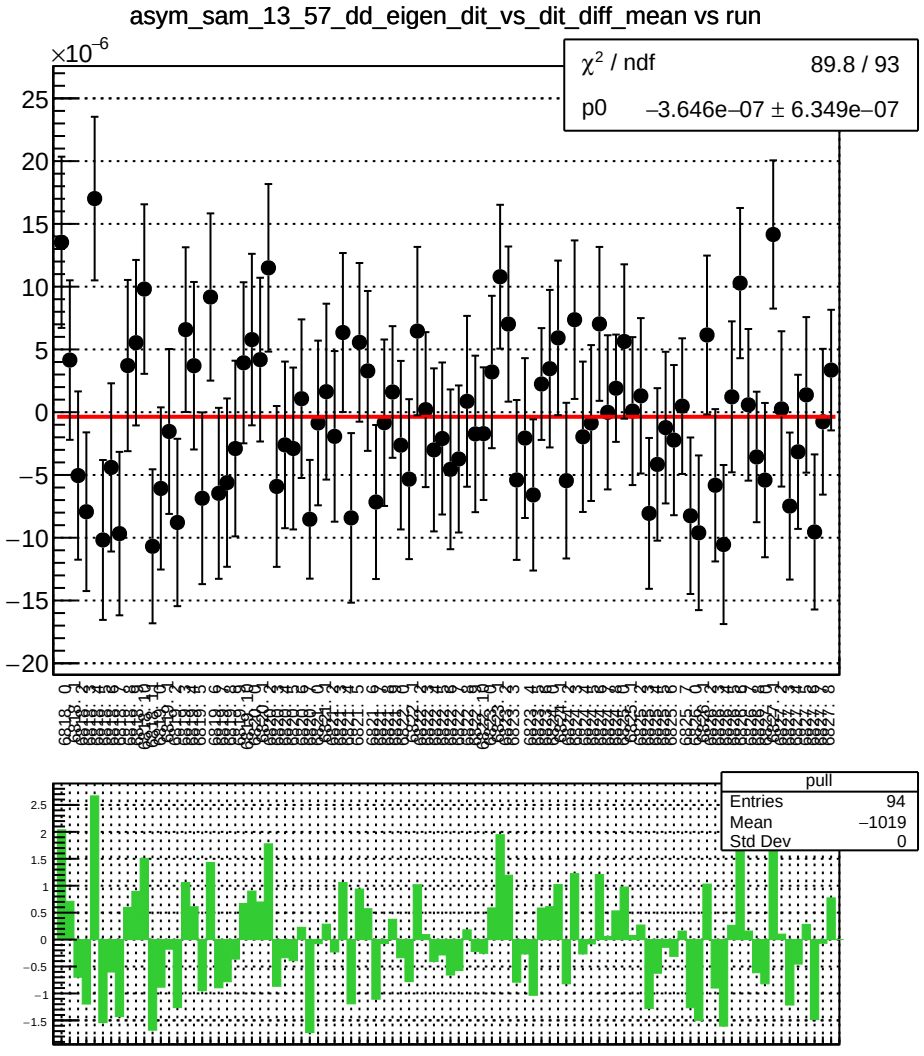

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.032e+06 / 93
p0 9.915e−12 ± 1.135e−14
0.05
0.04
0.03
0.02
0.01
0

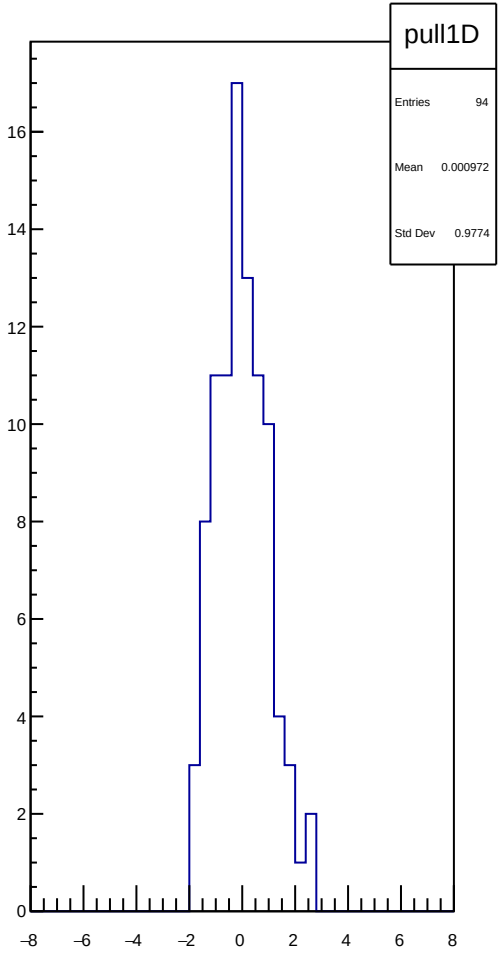

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.38 / 93
p0 0.01823 ± 0.03105
pull
Entries 94
Mean −80.09
Std Dev 0
pull1D
Entries 94
Mean 0.01858
Std Dev 0.8953

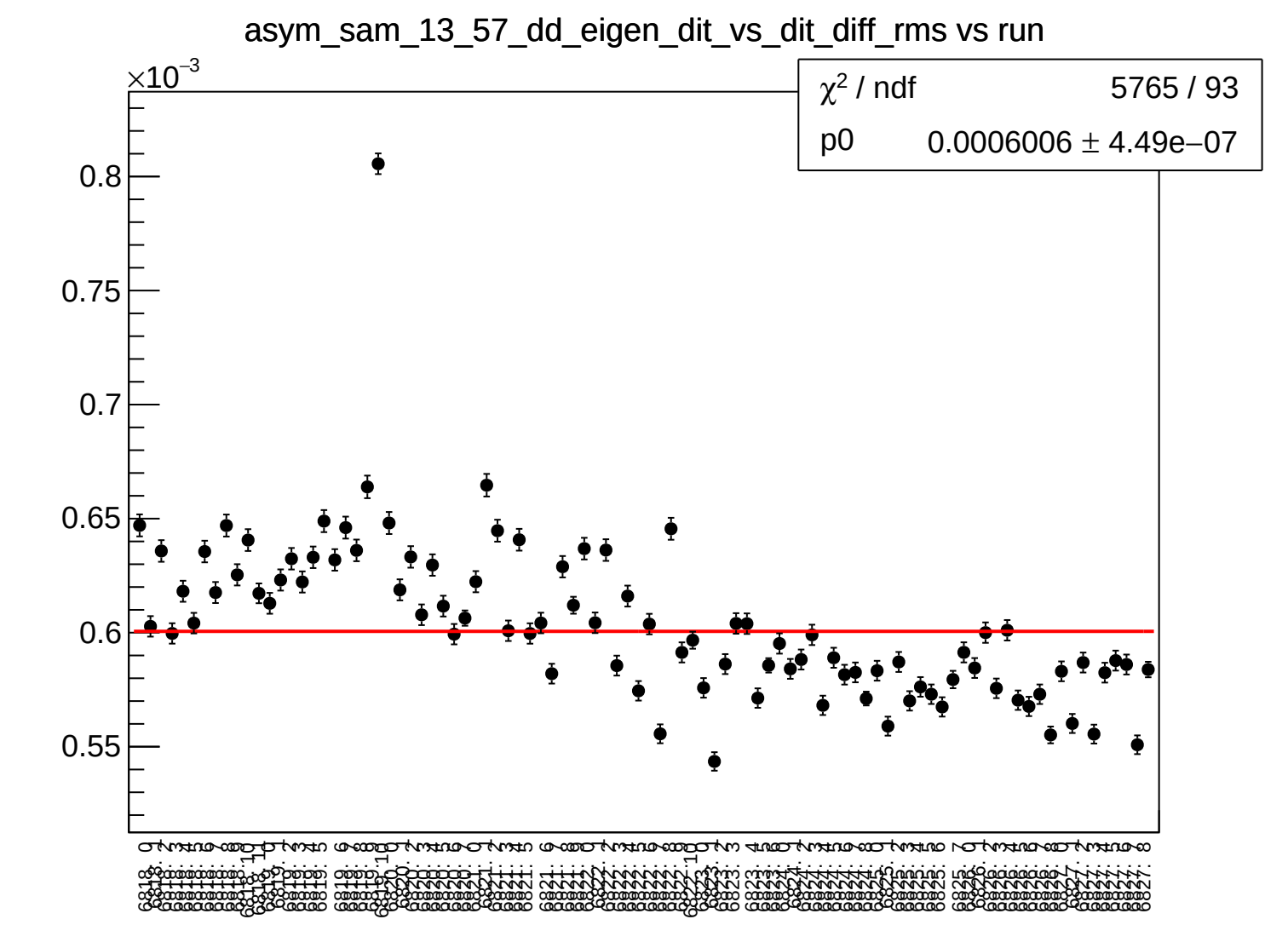

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.722e+04 / 93
p0 29.02 ± 0.02195
40
35
30
25
20

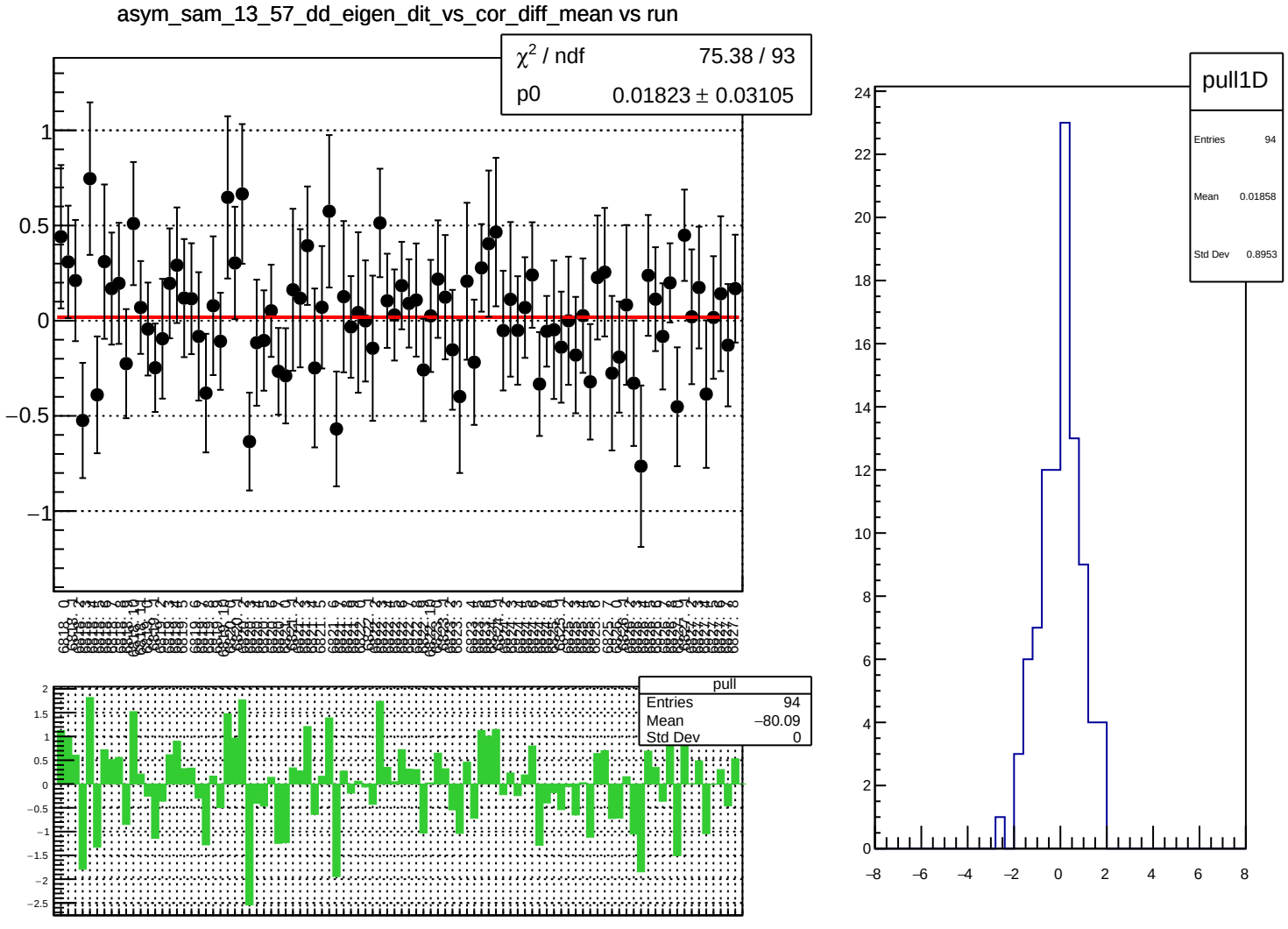

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.38 / 93
p0 0.01823 ± 0.03105
pull
Entries 94
Mean −80.09
Std Dev 0
pull1D
Entries 94
Mean 0.01858
Std Dev 0.8953

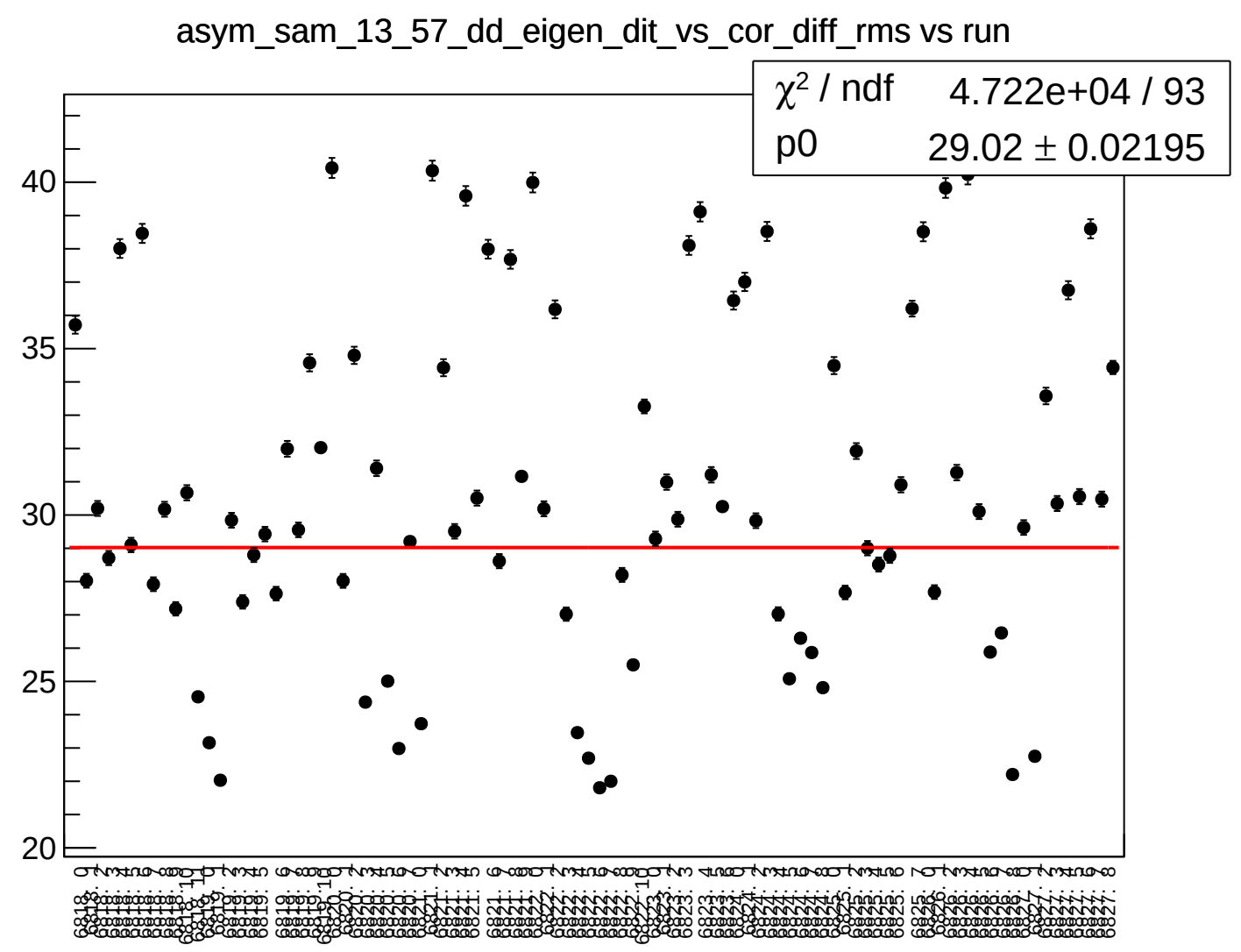

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.722e+04 / 93
p0 29.02 ± 0.02195
40
35
30
25
20

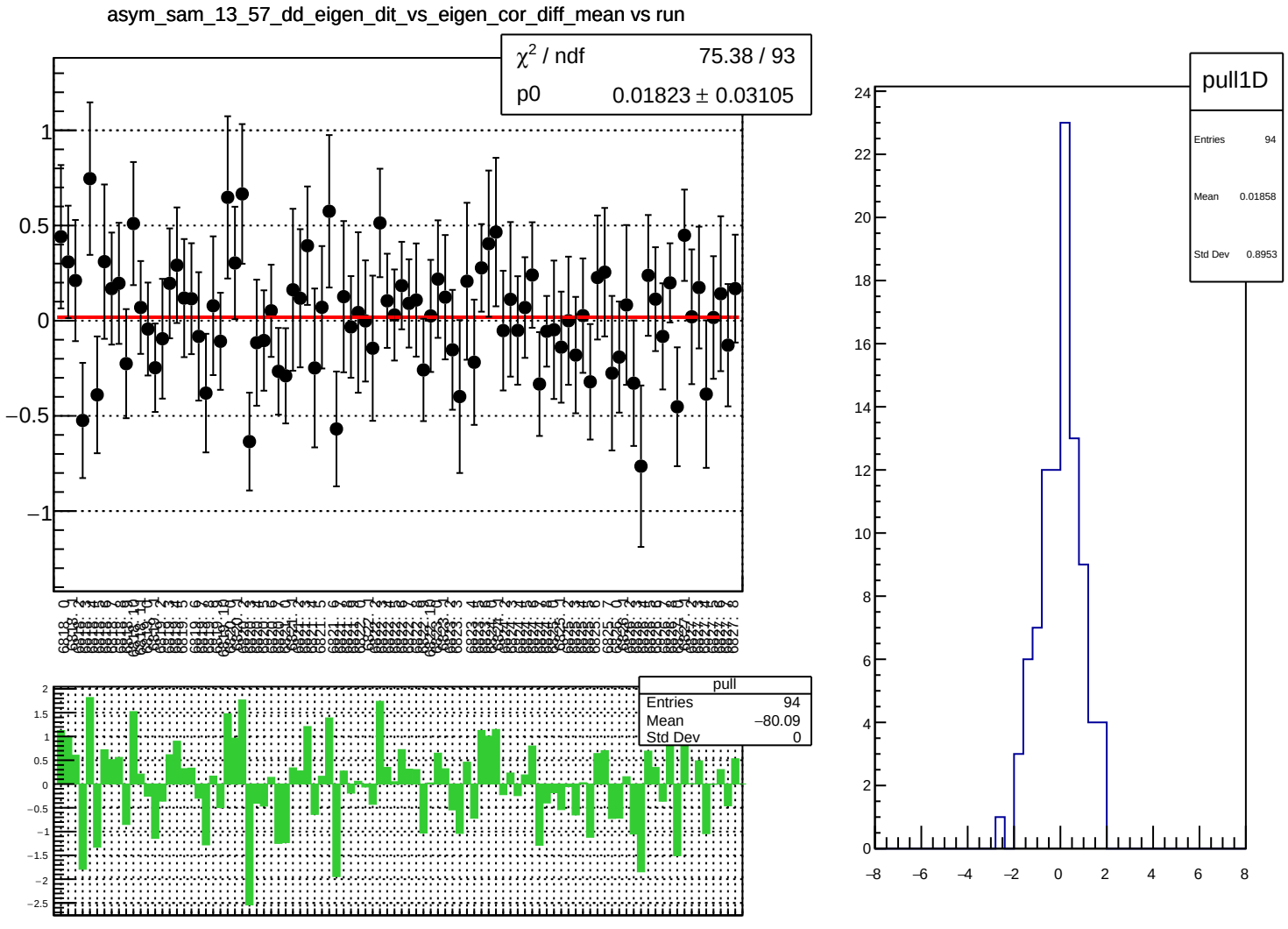

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 89.8 / 93
p0 −3.646e−07 ± 6.349e−07
pull
Entries 94
Mean −1019
Std Dev 0

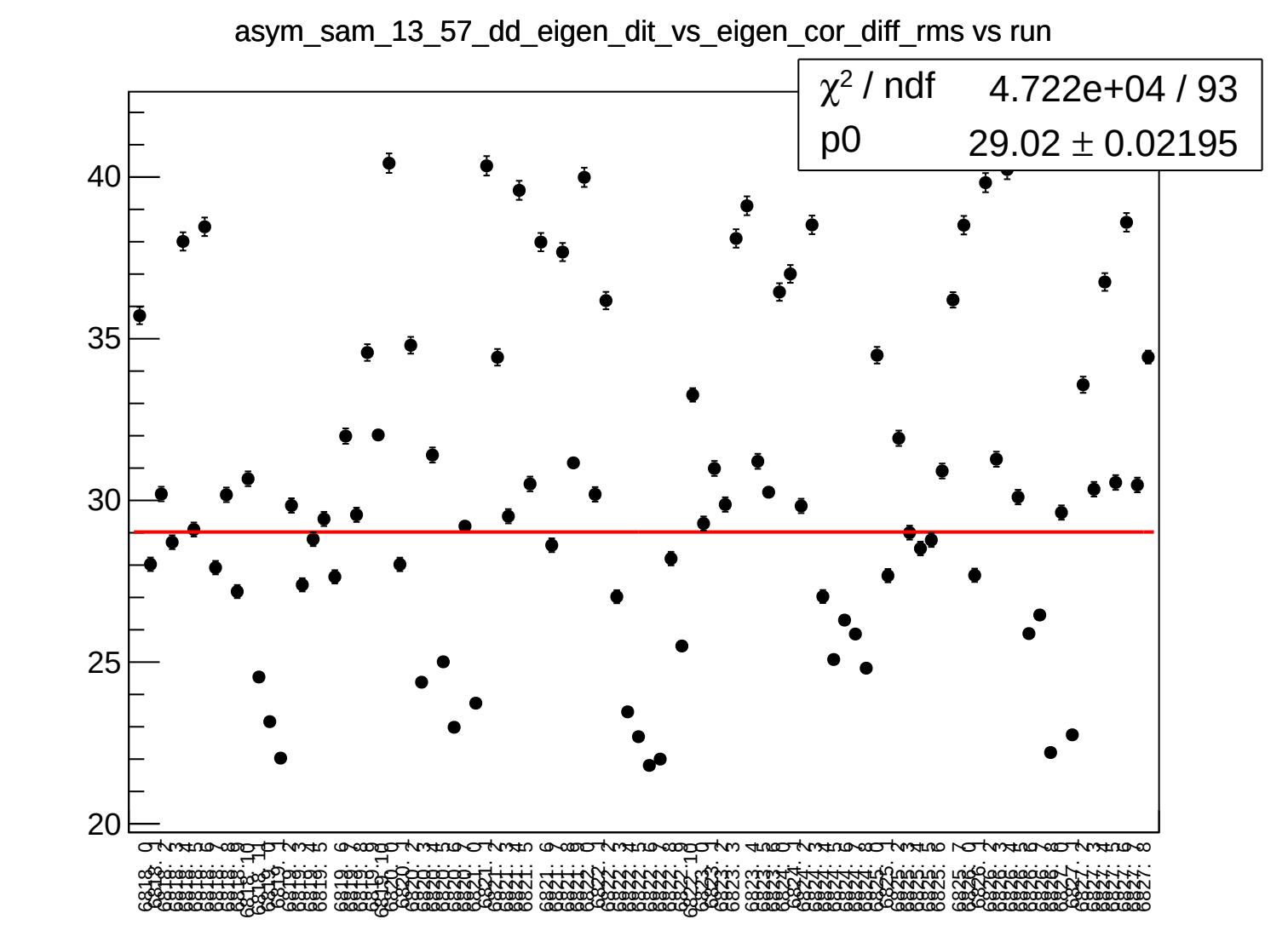

pull1D
Entries 94
Mean 0.000972
Std Dev 0.9774

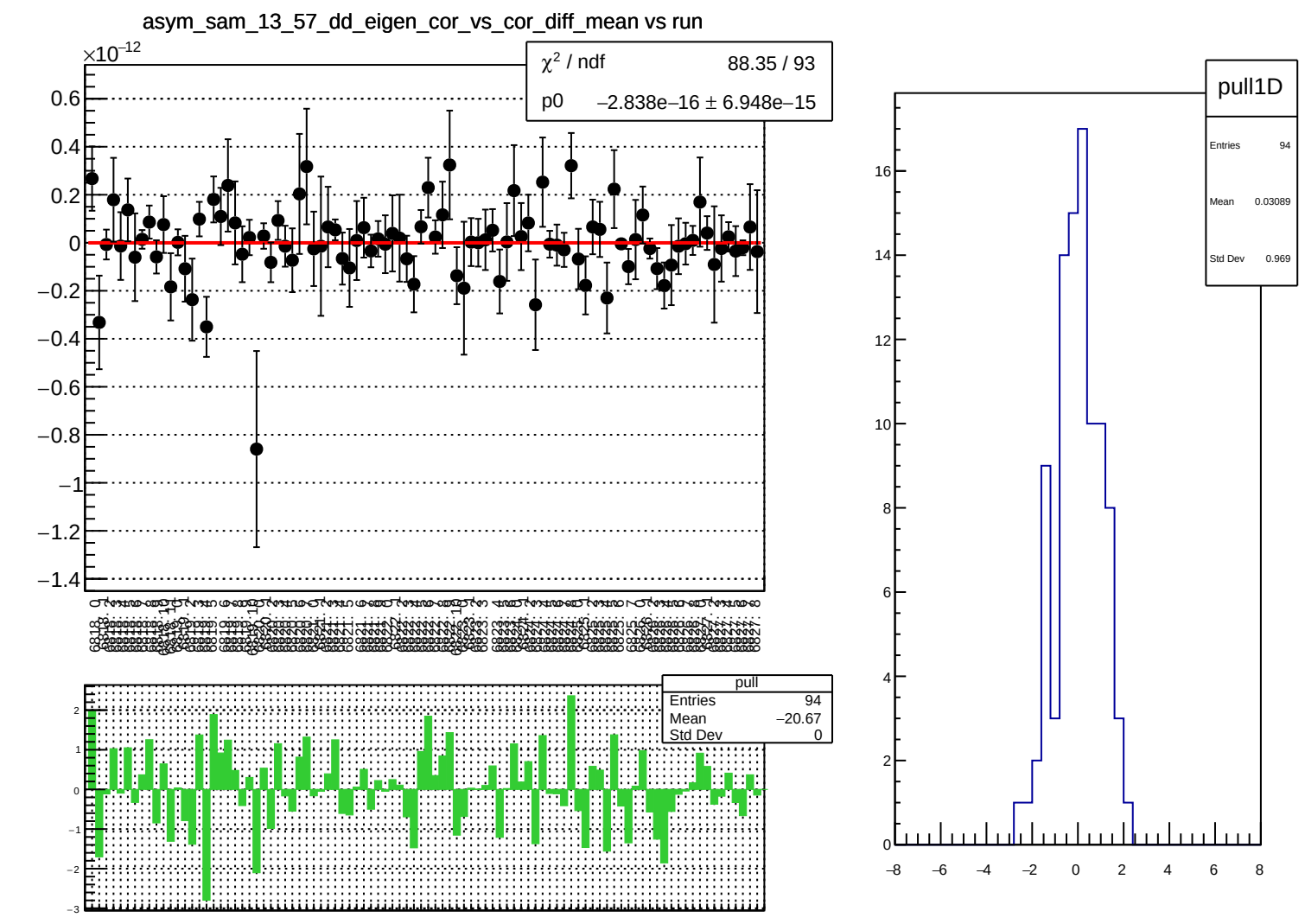

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5765 / 93
p0 0.0006006 ± 4.49e−07
0.8
0.75
0.7
0.65
0.6
0.55

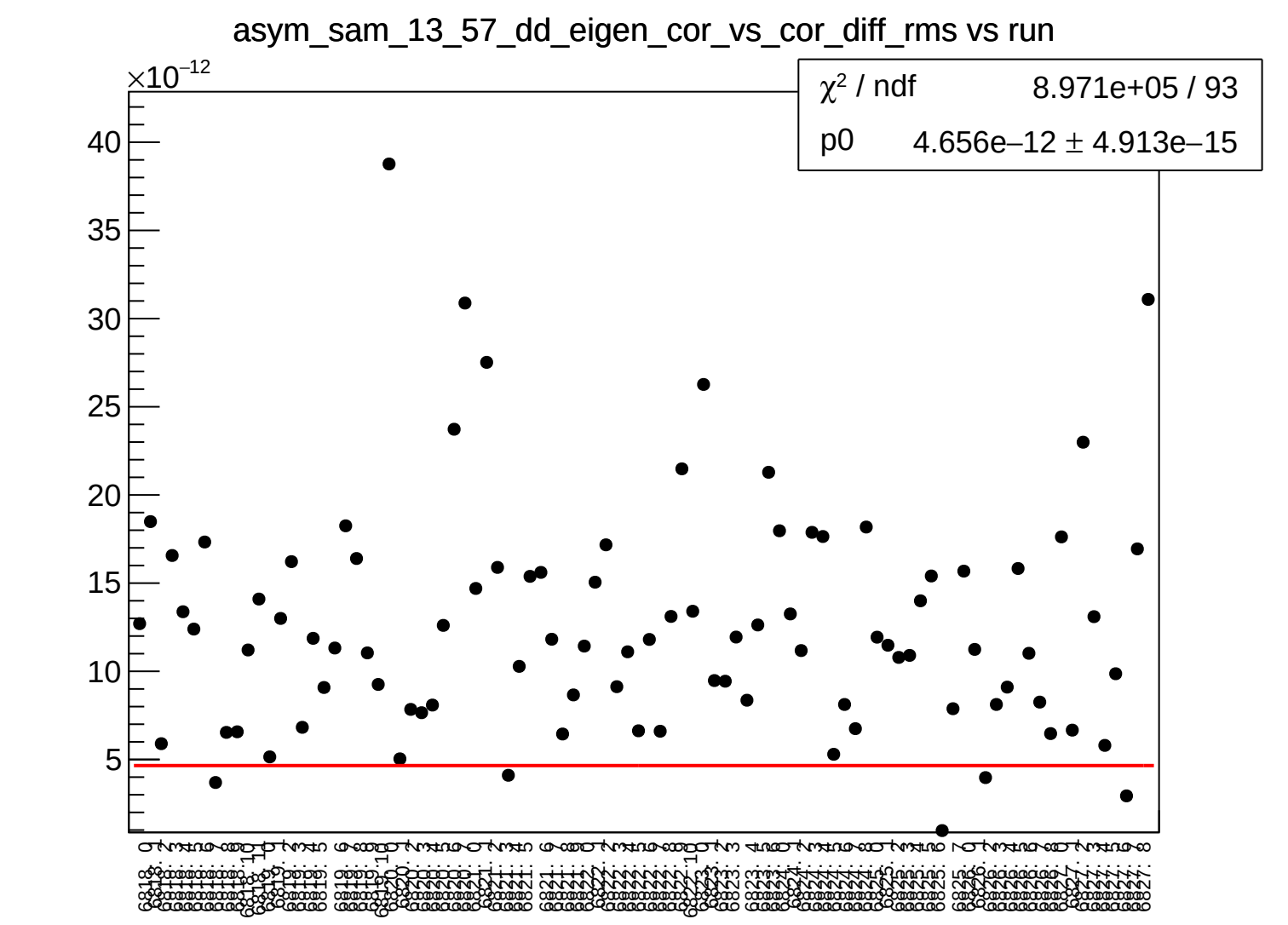

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.38 / 93
p0 0.01823 ± 0.03105
pull
Entries 94
Mean −80.09
Std Dev 0
pull1D
Entries 94
Mean 0.01858
Std Dev 0.8953

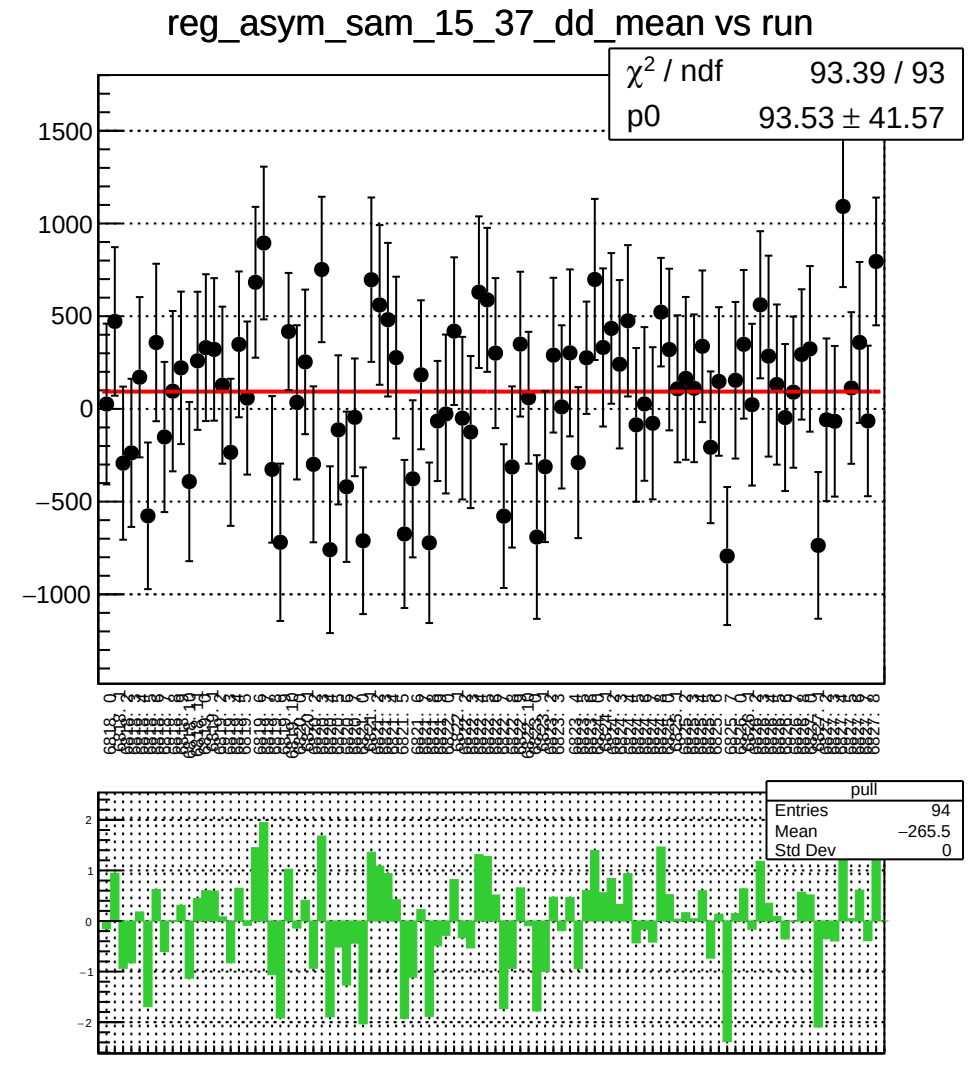

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.722e+04 / 93
p0 29.02 ± 0.02195
40
35
30
25
20

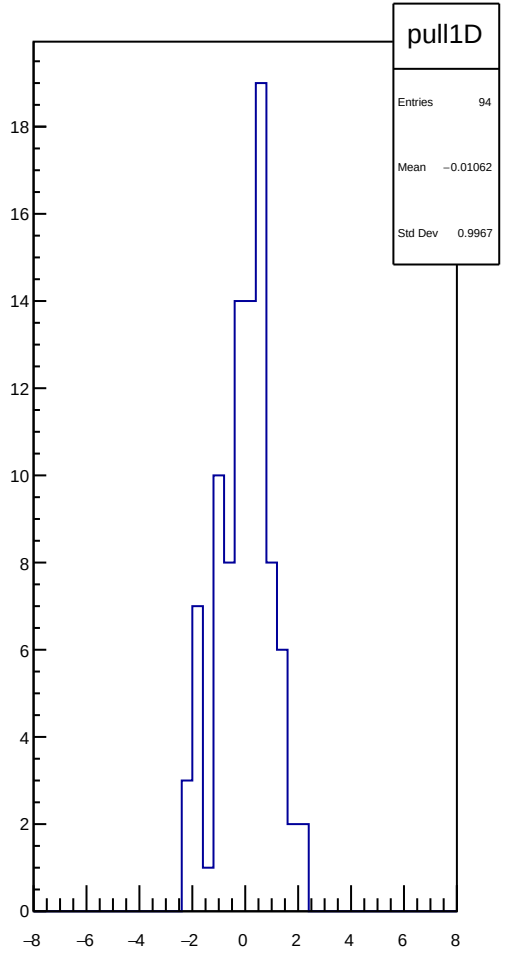

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.38 / 93
p0 0.01823 ± 0.03105
pull
Entries 94
Mean −80.09
Std Dev 0
pull1D
Entries 94
Mean 0.01858
Std Dev 0.8953

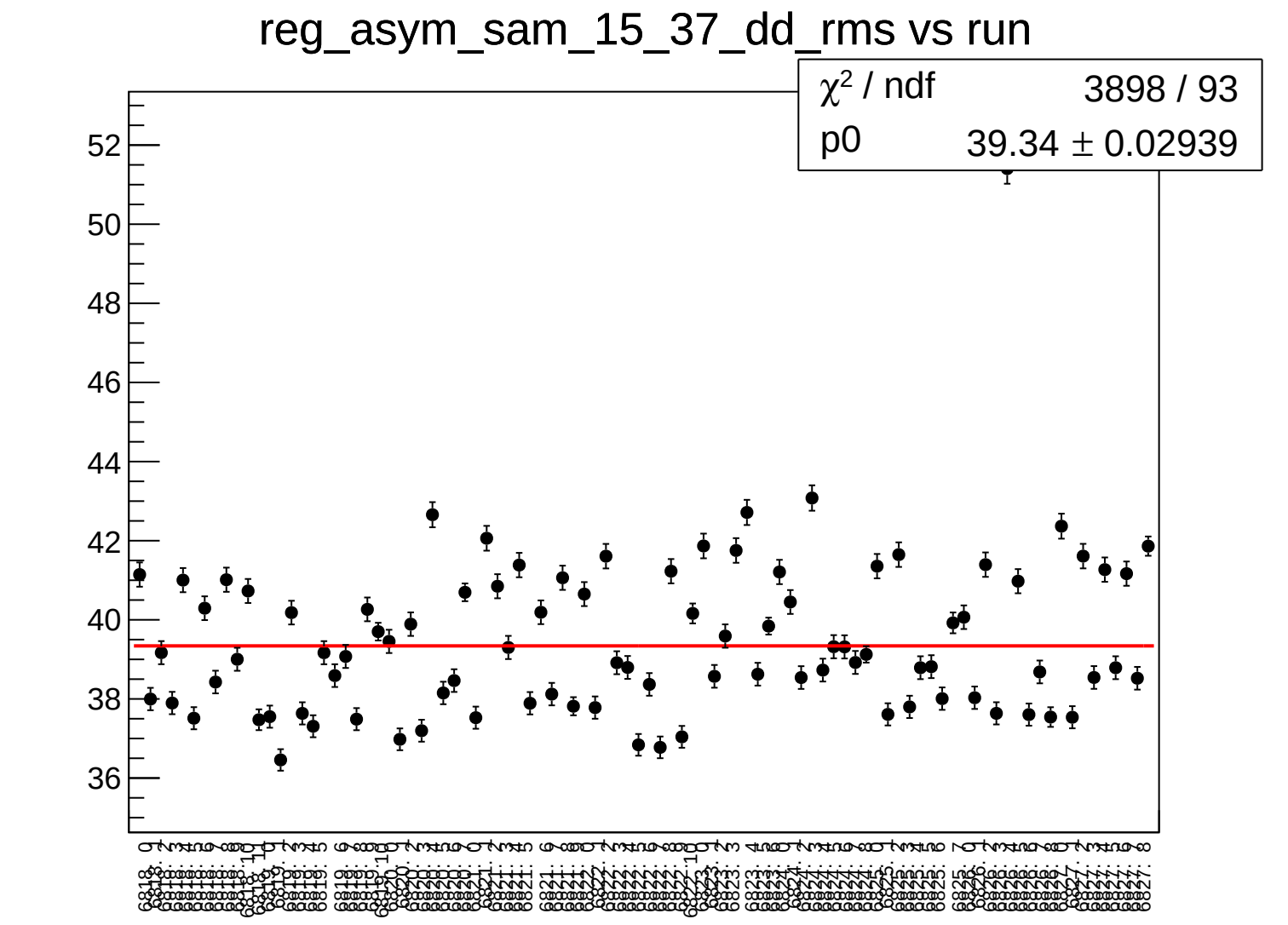

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.722e+04 / 93
p0 29.02 ± 0.02195
40
35
30
25
20

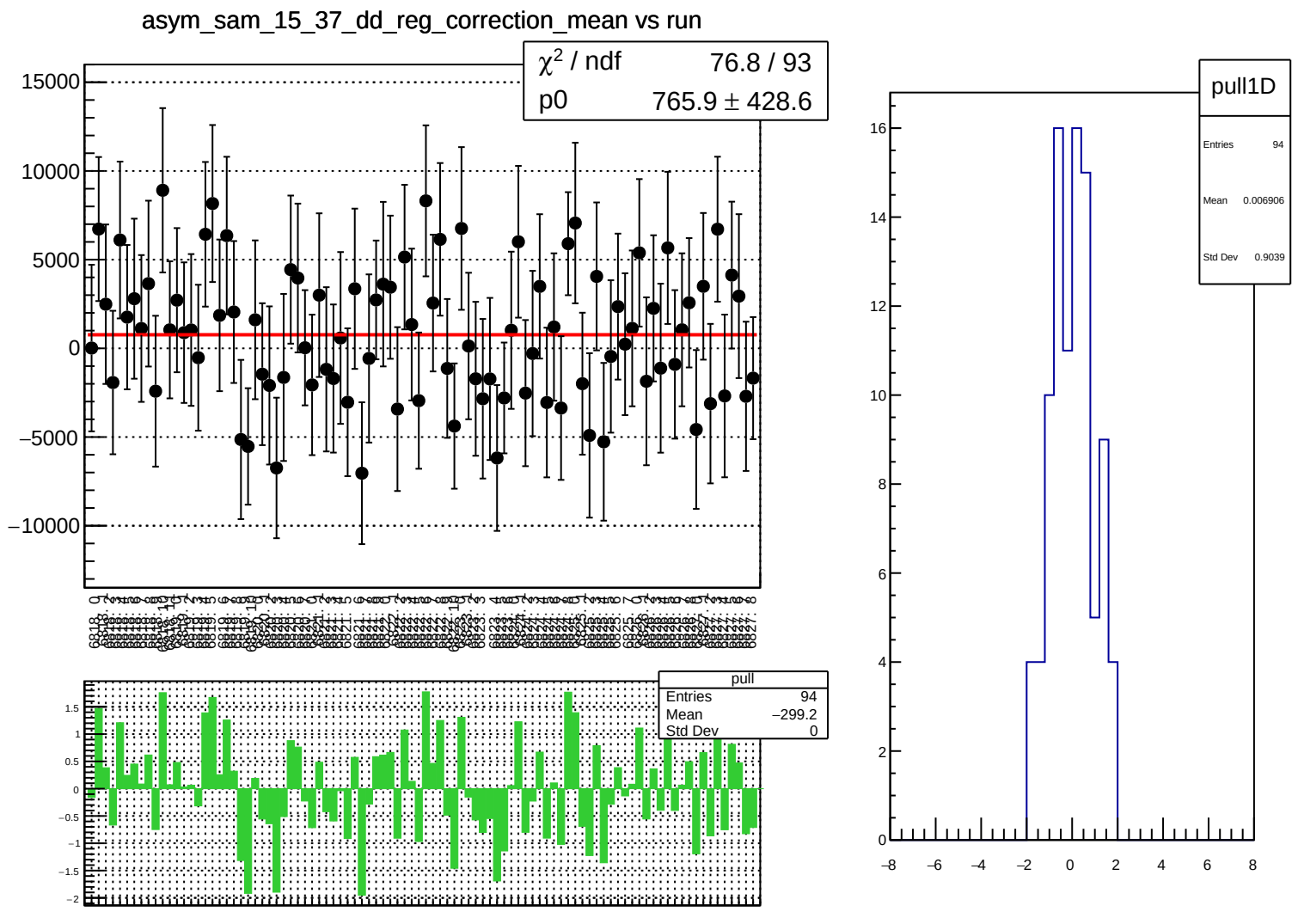

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.35 / 93
p0 −2.838e−16 ± 6.948e−15
pull
Entries 94
Mean −20.67
Std Dev 0
pull1D
Entries 94
Mean 0.03089
Std Dev 0.969

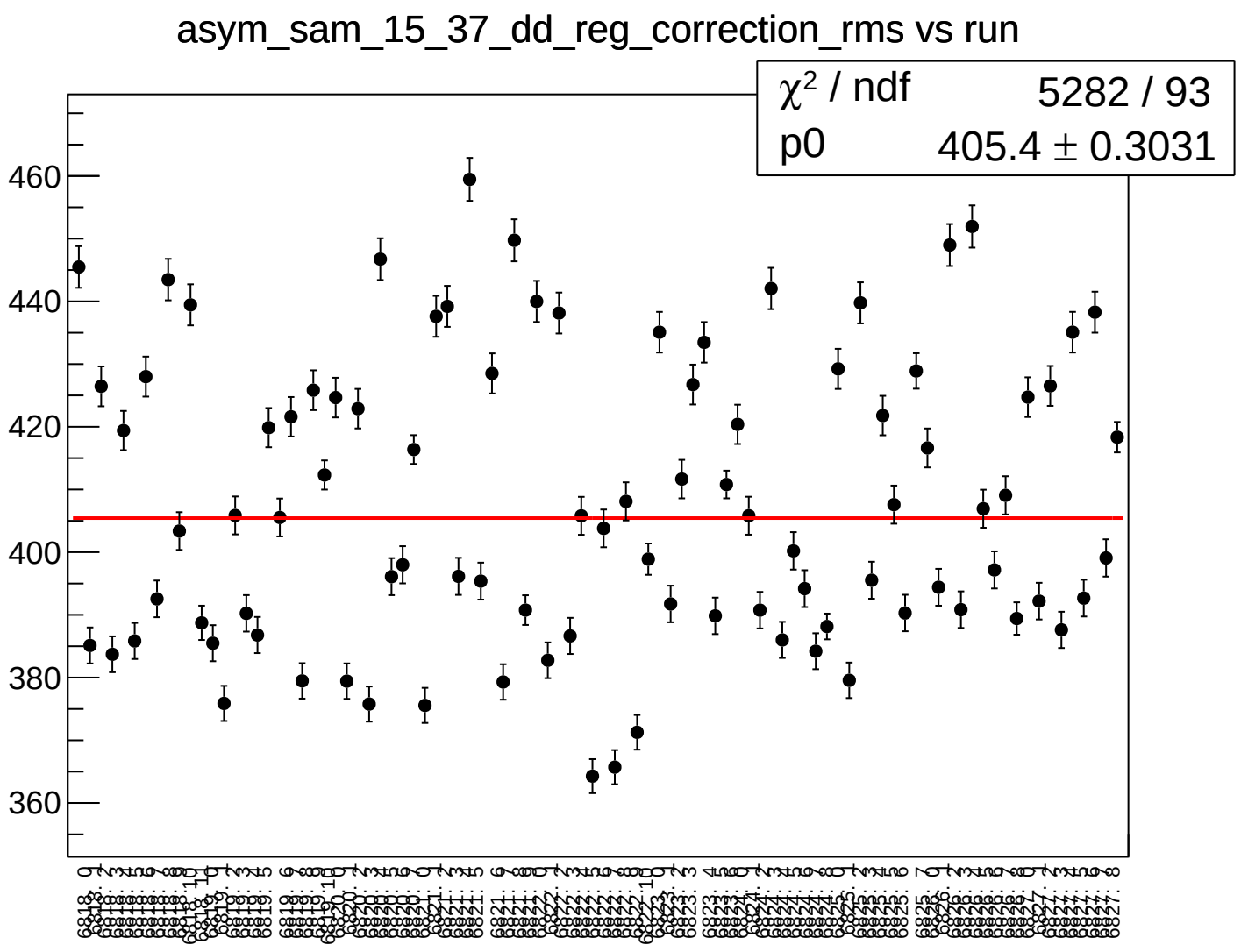

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.971e+05 / 93
p0 4.656e−12 ± 4.913e−15
40
35
30
25
20
15
10
5

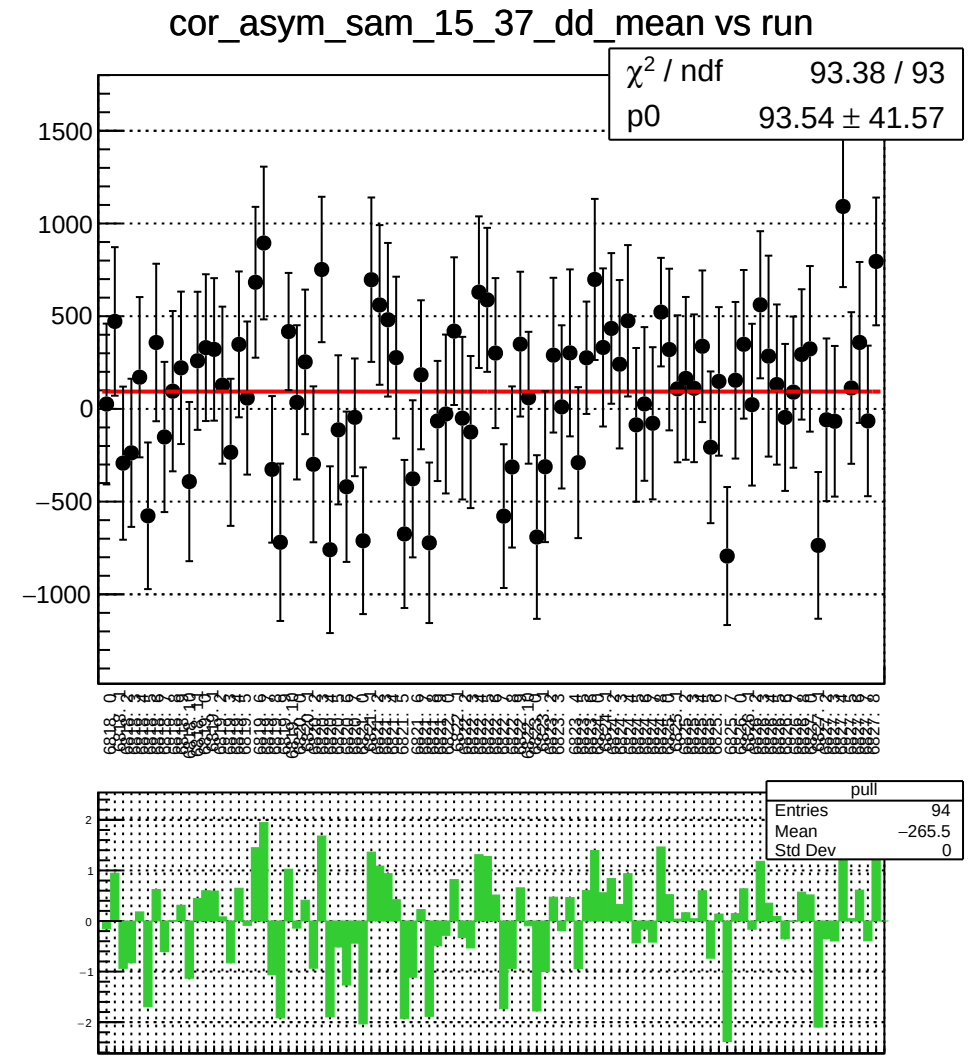

reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 93.39 / 93
p0 93.53 ± 41.57
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −265.5
Std Dev 0
2
1
0
−1
−2

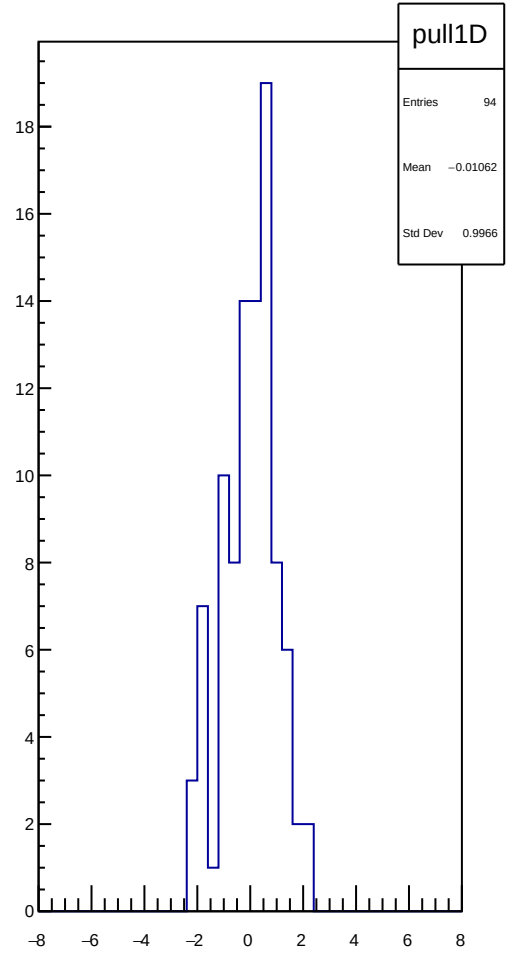

pull1D
Entries 94
Mean −0.01062
Std Dev 0.9967
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

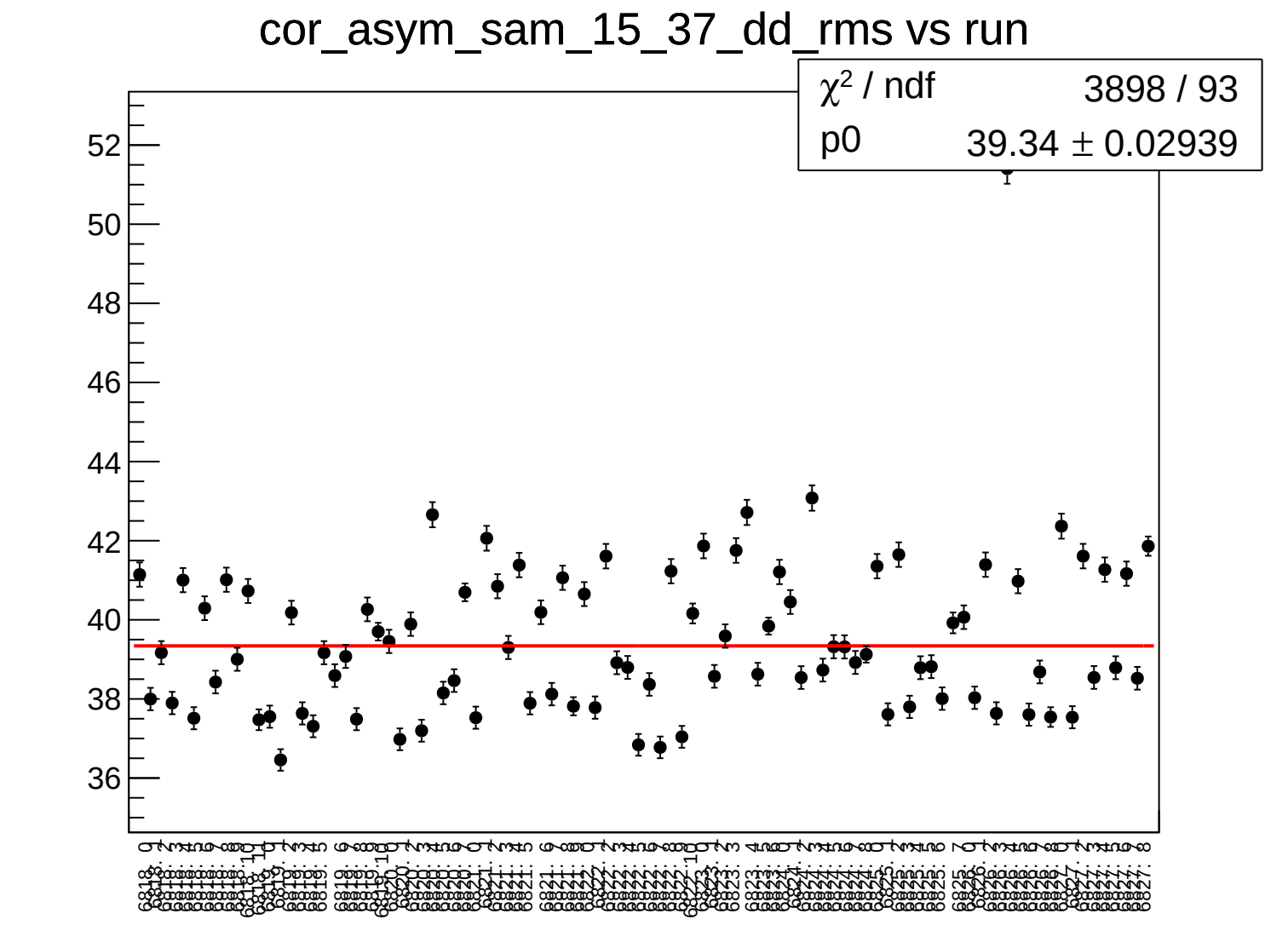

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3898 / 93
p0 39.34 ± 0.02939
52
50
48
46
44
42
40
38
36

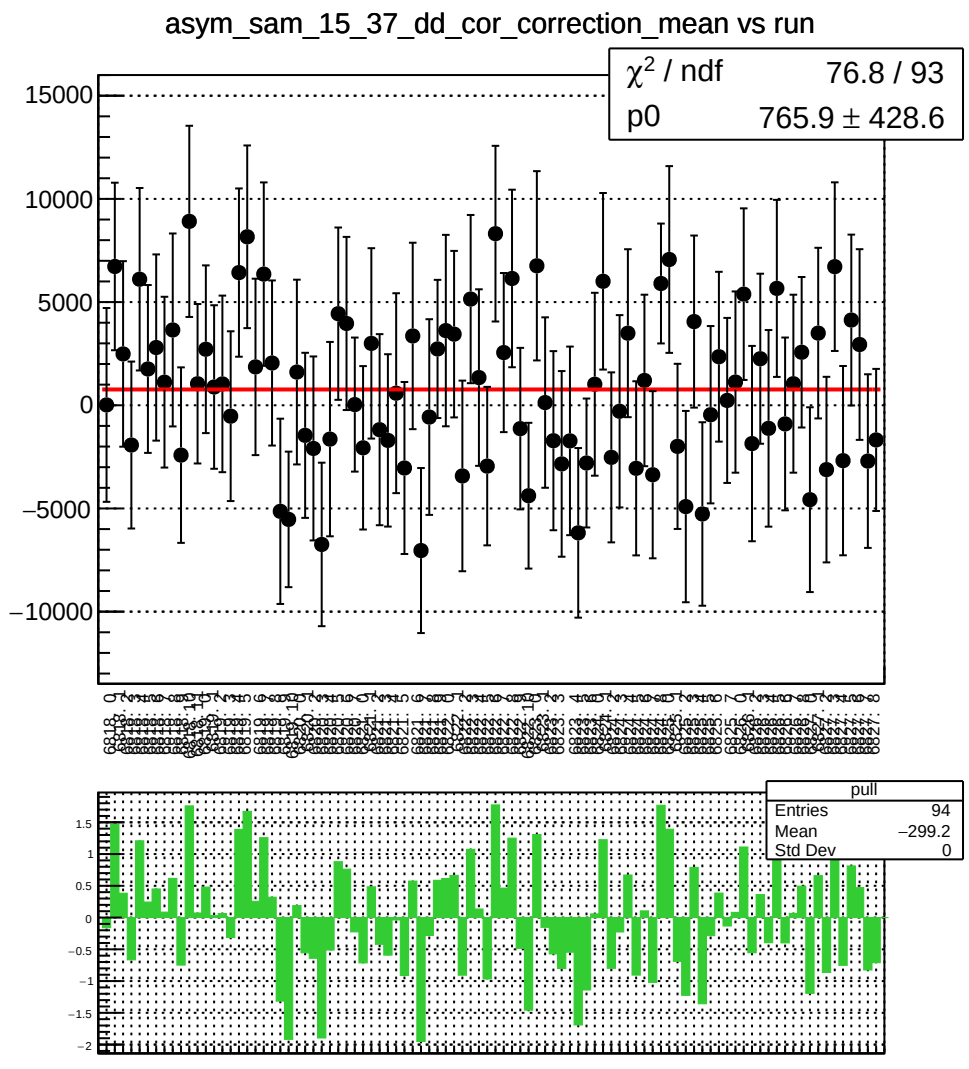

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 76.8 / 93
p0 765.9 ± 428.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −299.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.006906
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

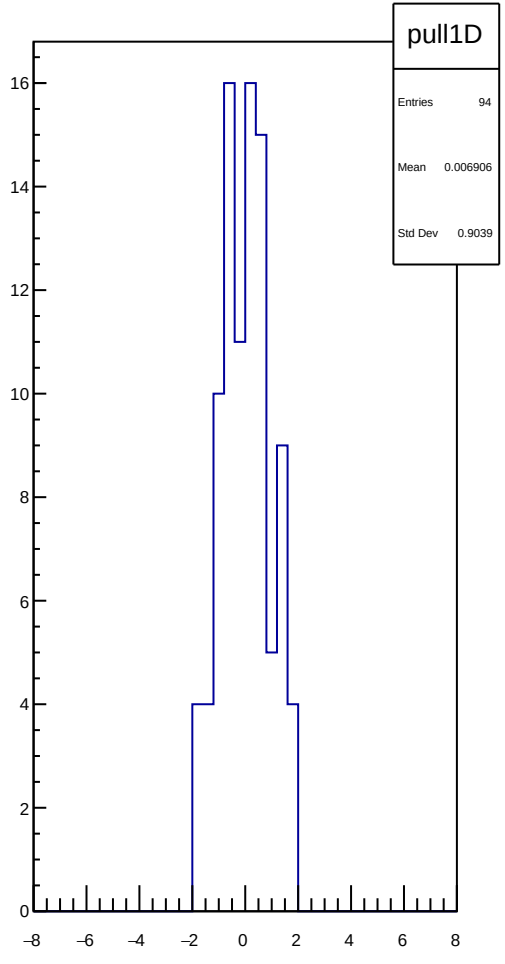

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5282 / 93
p0 405.4 ± 0.3031
460
440
420
400
380
360

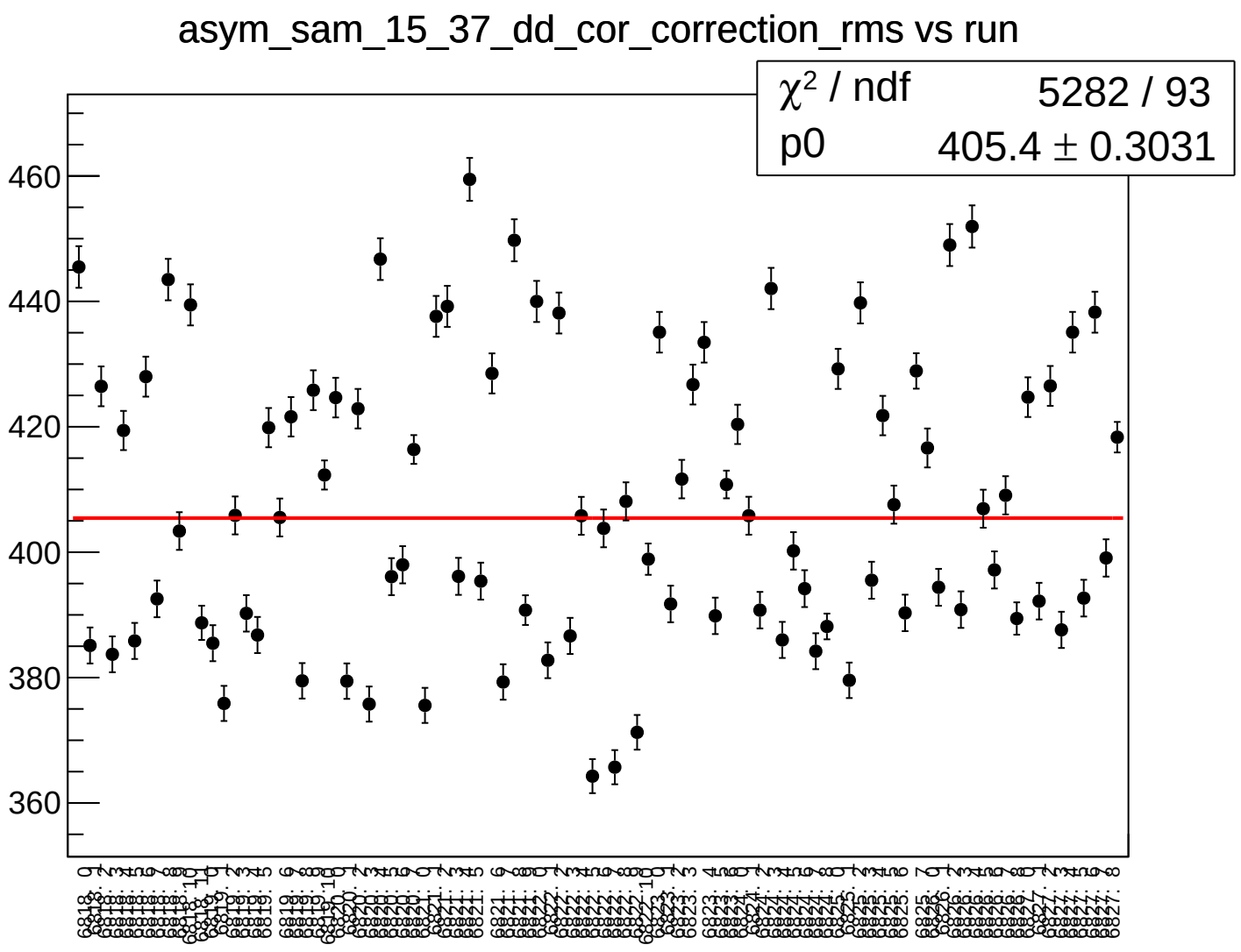

cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 93.38 / 93
p0 93.54 ± 41.57
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −265.5
Std Dev 0
2
1
0
−1
−2

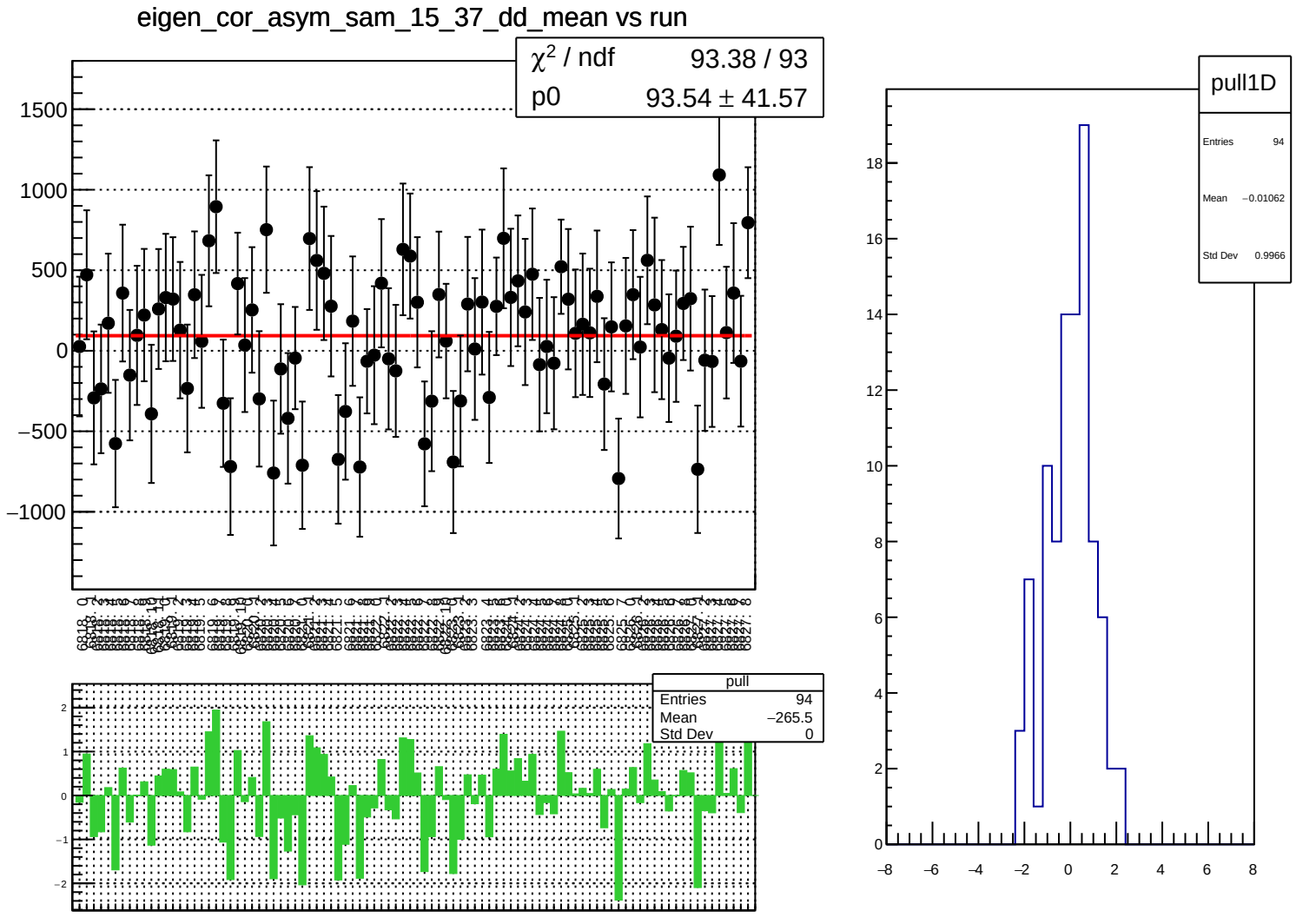

pull1D
Entries 94
Mean −0.01062
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

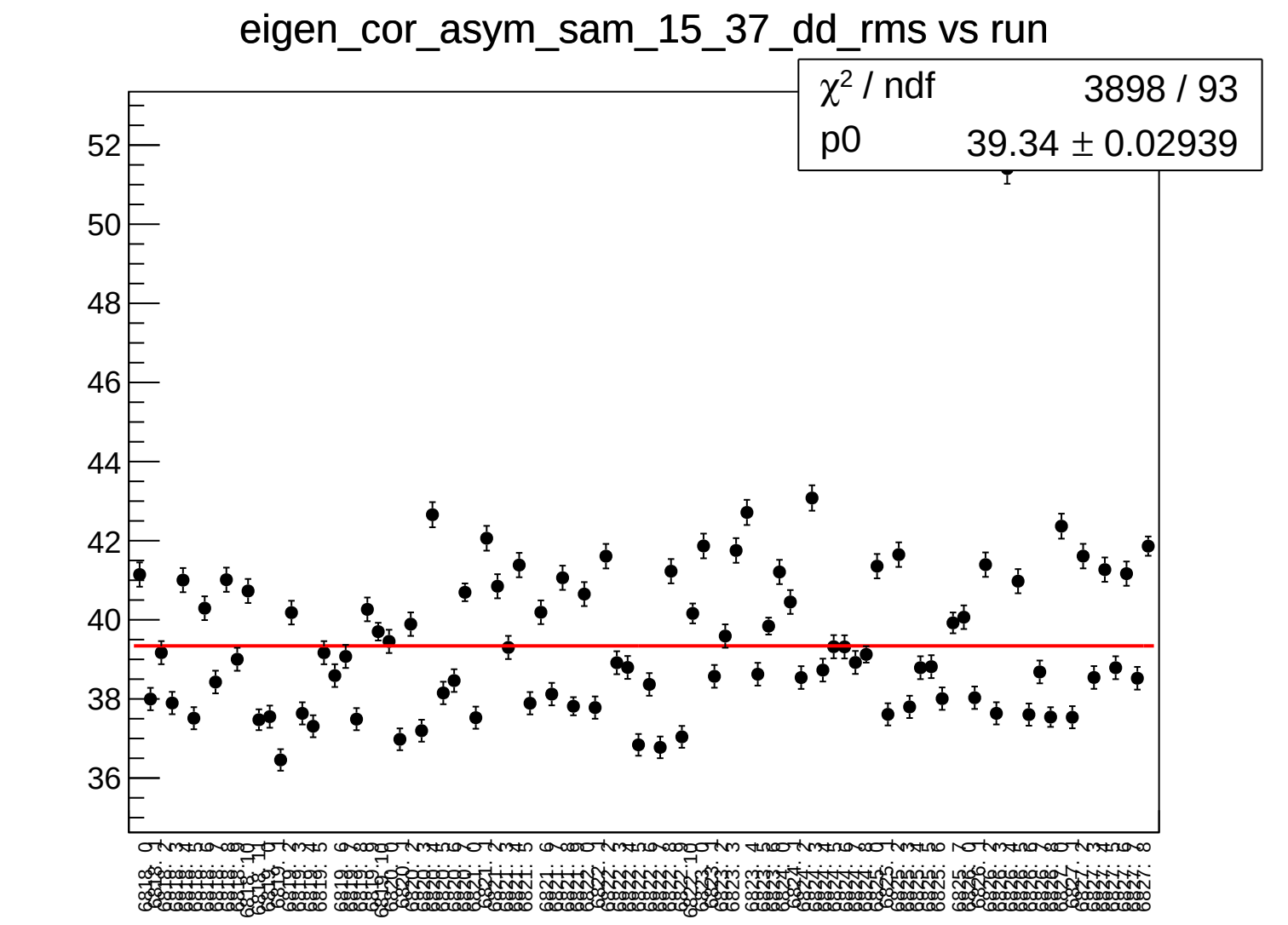

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3898 / 93
p0 39.34 ± 0.02939
52
50
48
46
44
42
40
38
36

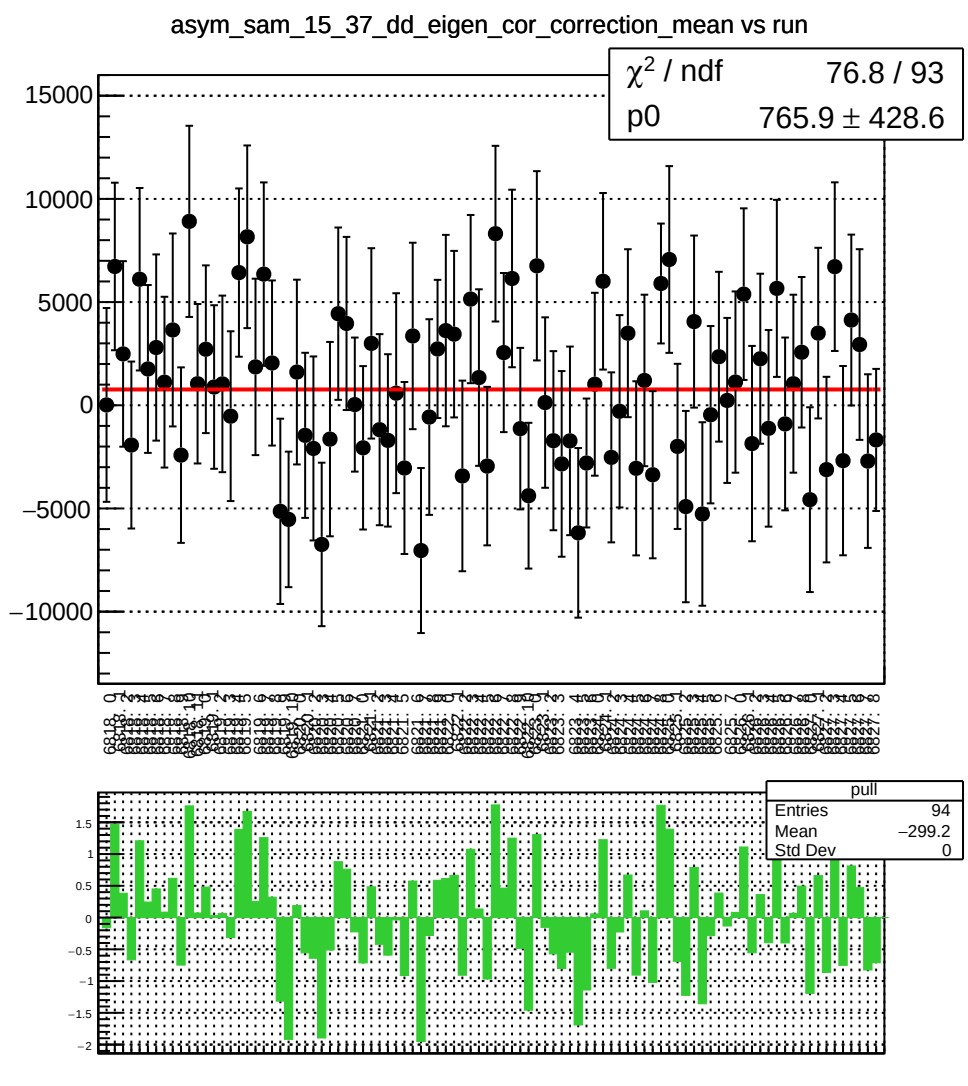

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 76.8 / 93
p0 765.9 ± 428.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −299.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

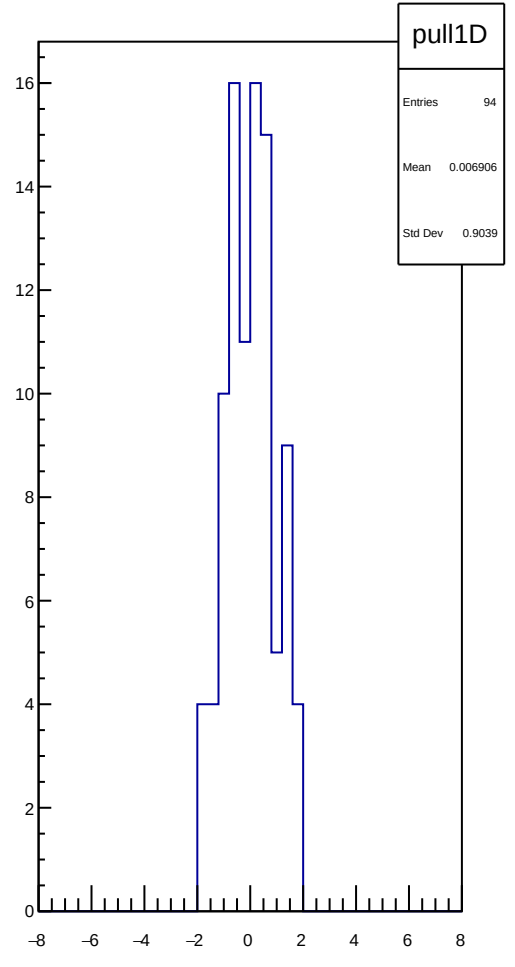

pull1D
Entries 94
Mean 0.006906
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

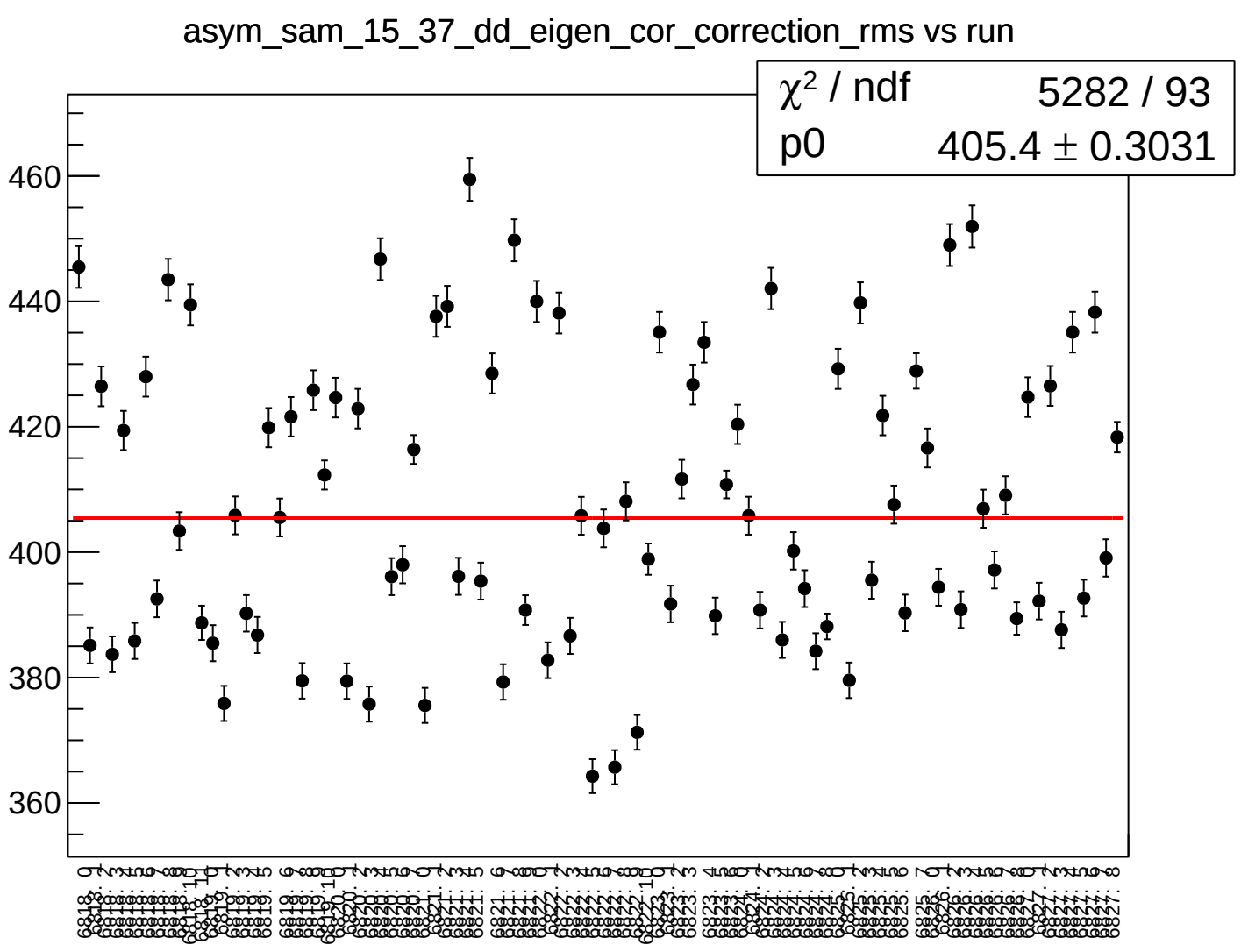

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5282 / 93
p0 405.4 ± 0.3031
460
440
420
400
380
360

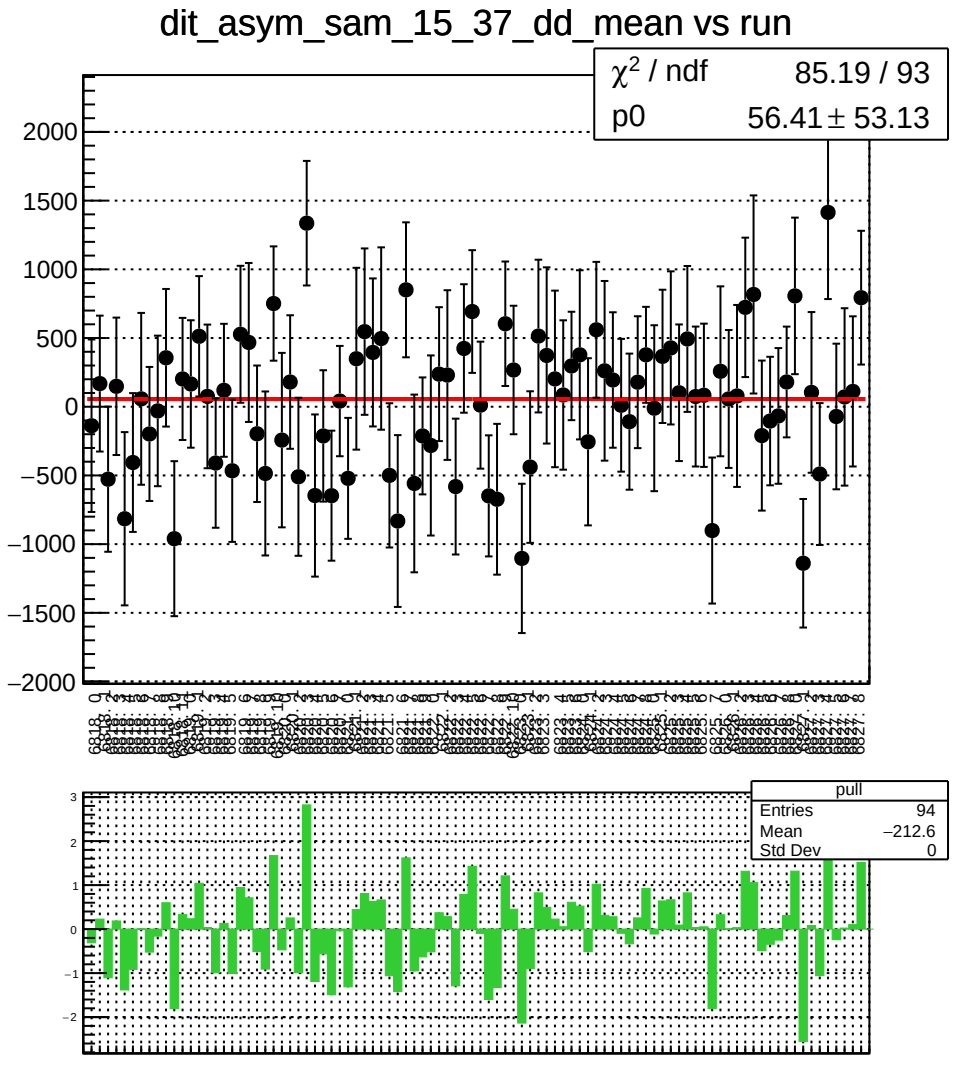

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 93.38 / 93
p0 93.54 ± 41.57
1500
1000
500
0
−500
−1000
pull
Entries 94
Mean −265.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01062
Std Dev 0.9966
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

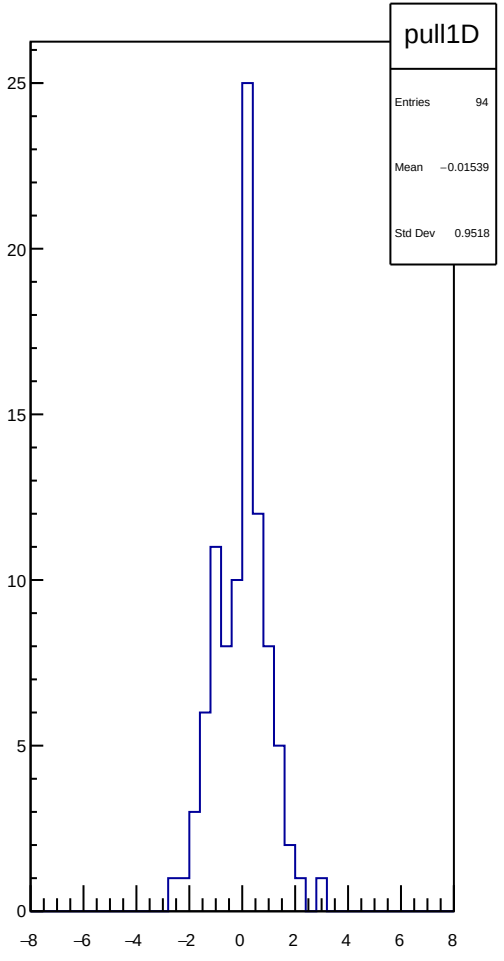

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3898 / 93
p0 39.34 ± 0.02939
52
50
48
46
44
42
40
38
36

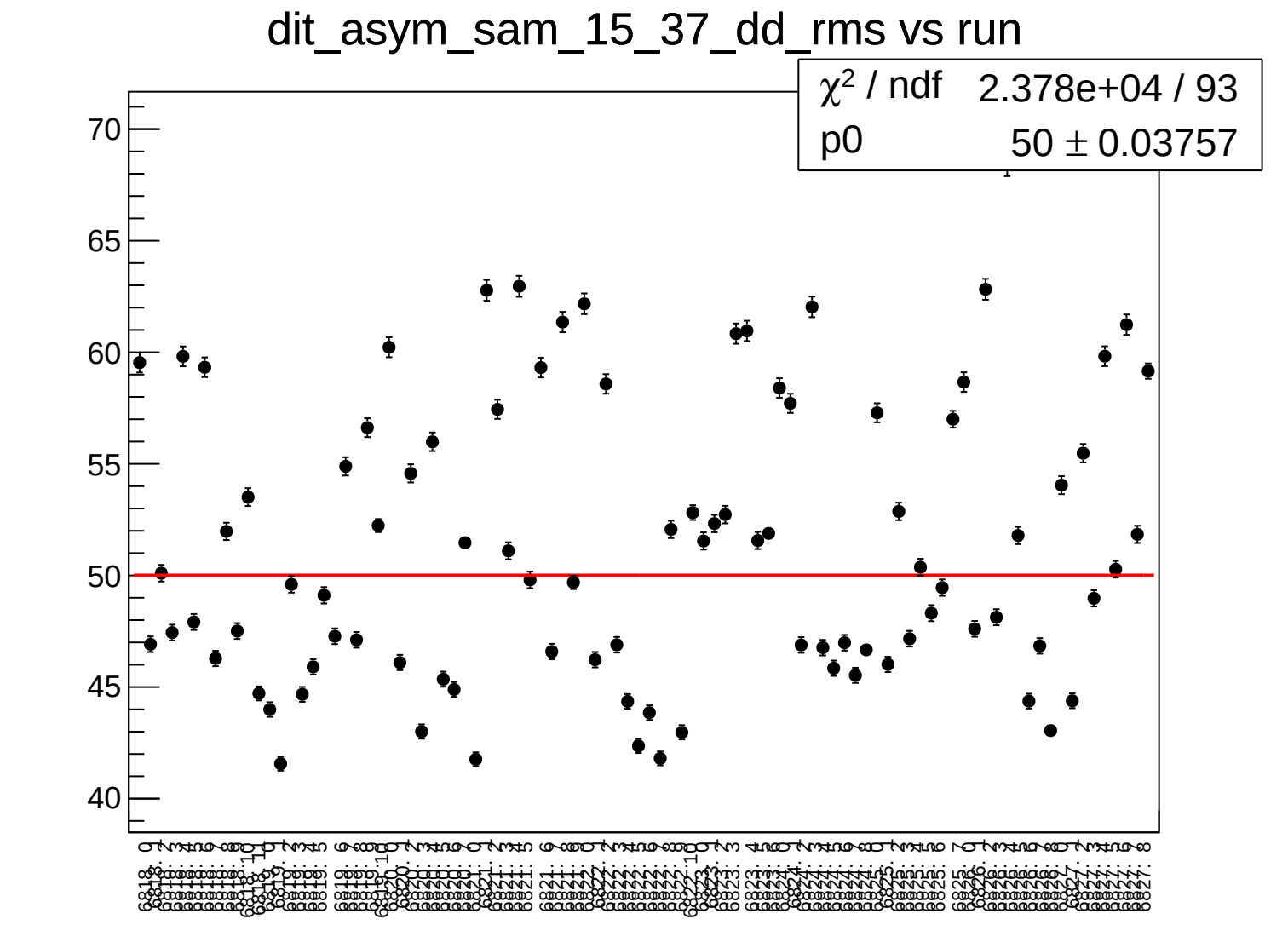

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.8 / 93
p0 765.9 ± 428.6
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −299.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

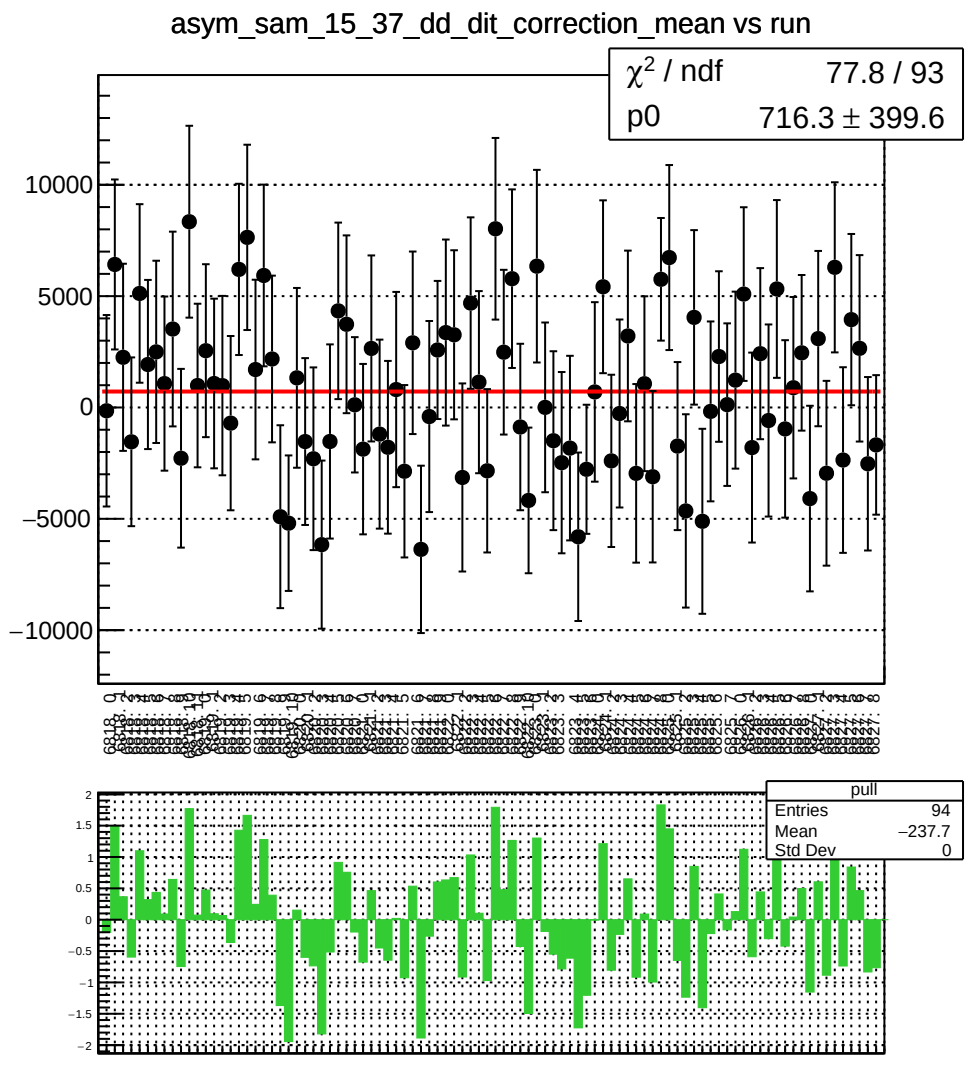

pull1D
Entries 94
Mean 0.006906
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

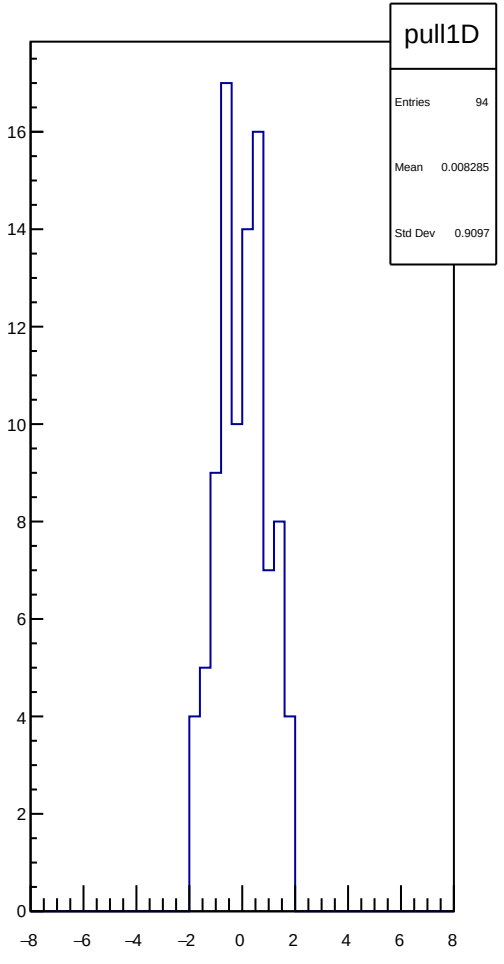

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5282 / 93
p0 405.4 ± 0.3031
460
440
420
400
380
360

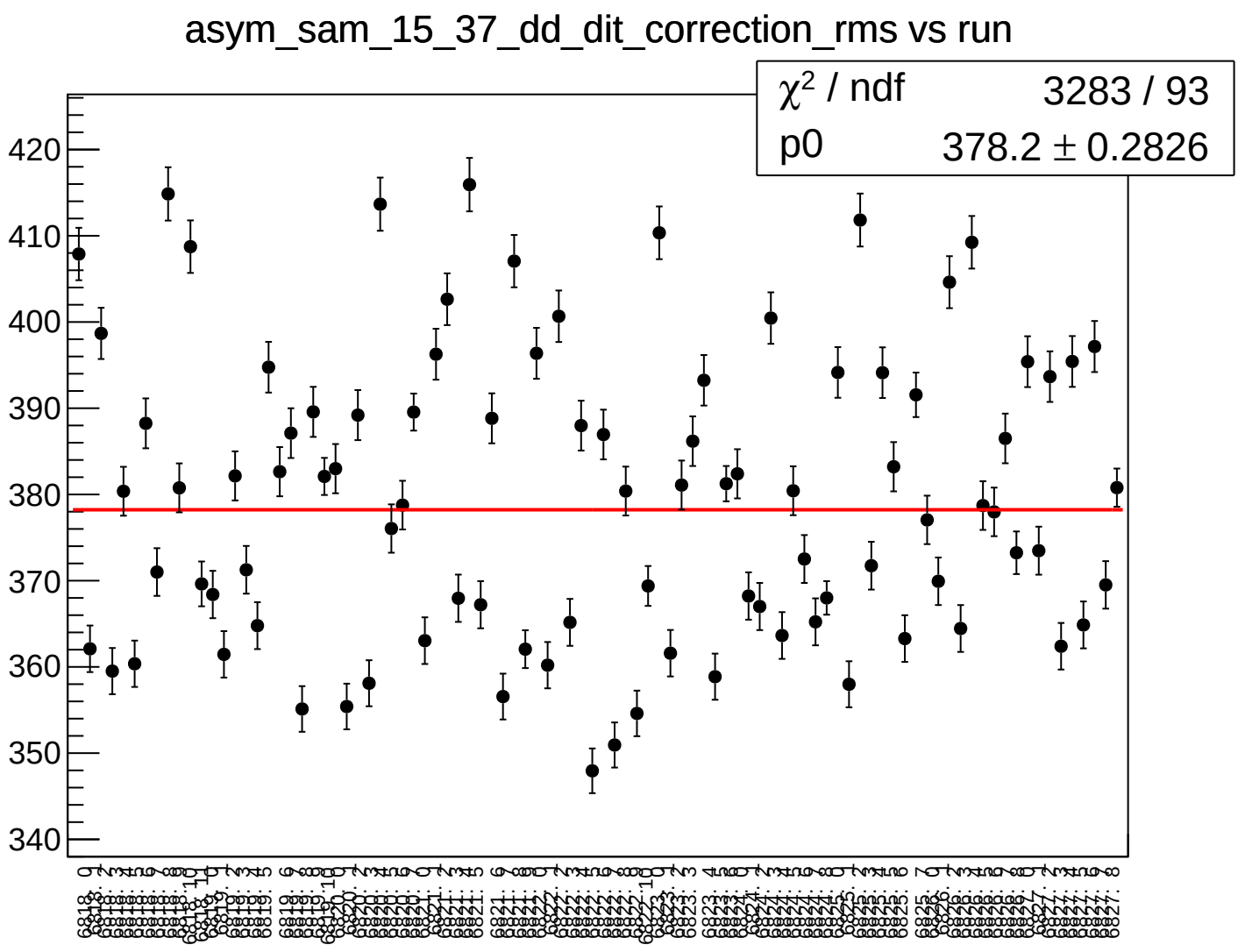

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.19 / 93
p0 56.41 ± 53.13
pull
Entries 94
Mean −212.6
Std Dev 0

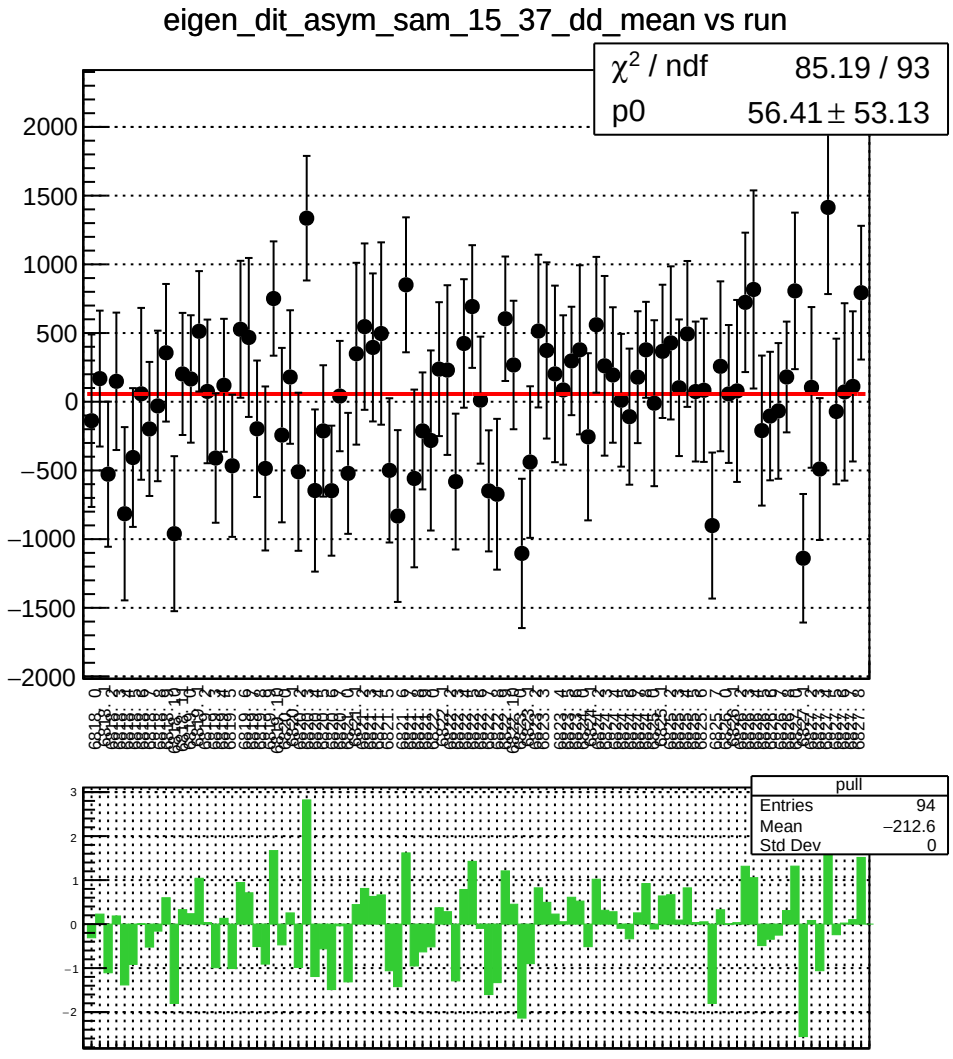

pull1D
Entries 94
Mean −0.01539
Std Dev 0.9518

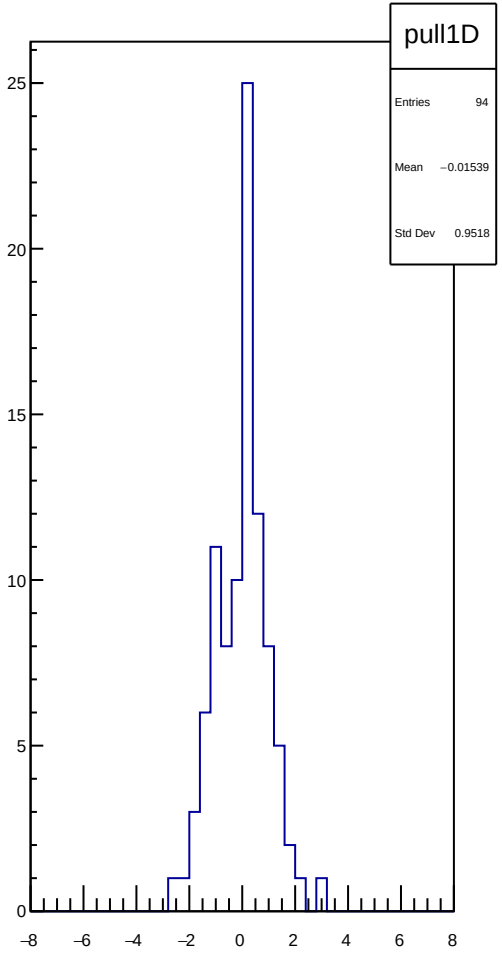

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.378e+04 / 93
p0 50 ± 0.03757
70
65
60
55
50
45
40

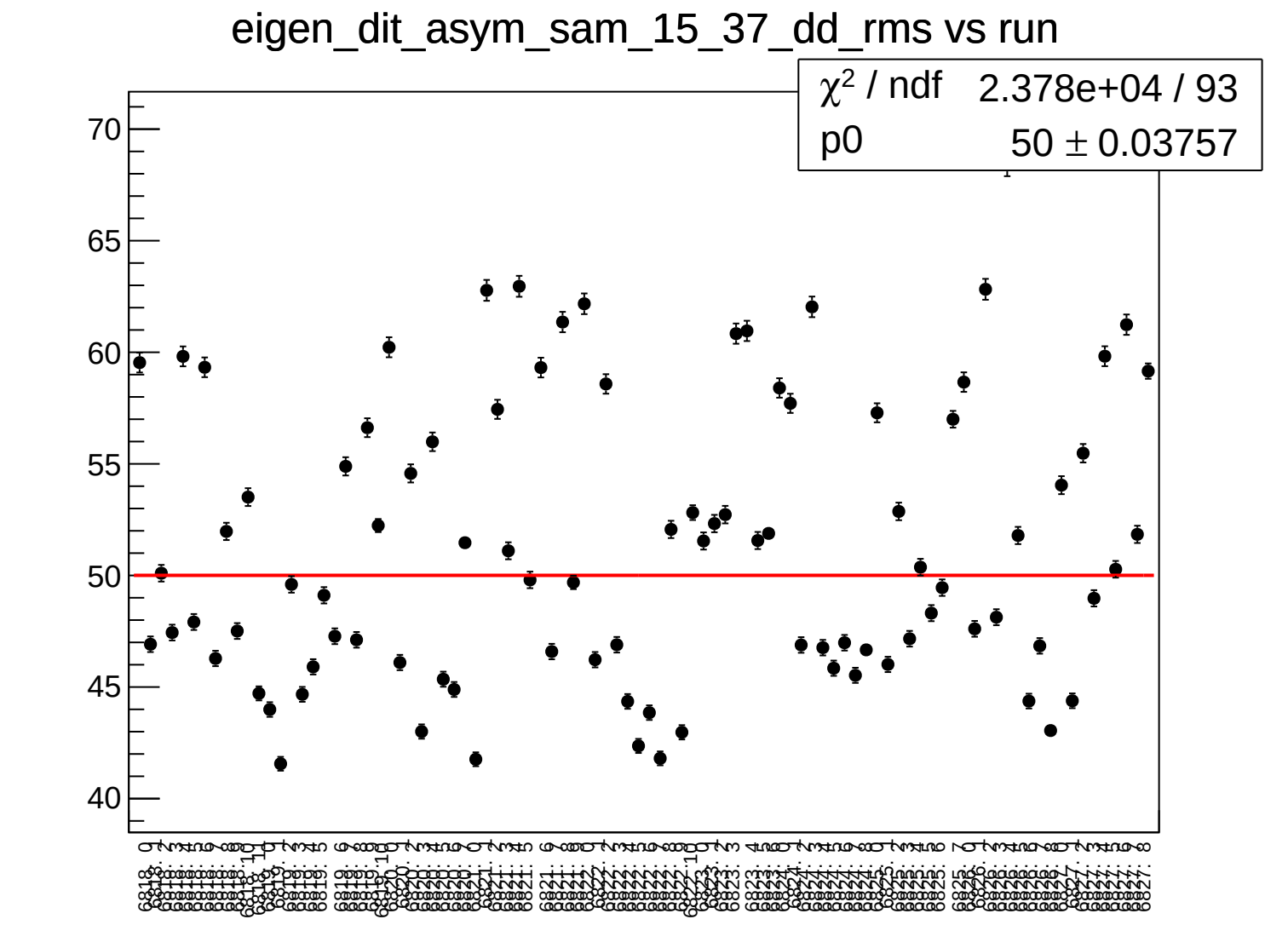

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 77.8 / 93
p0 716.3 ± 399.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −237.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

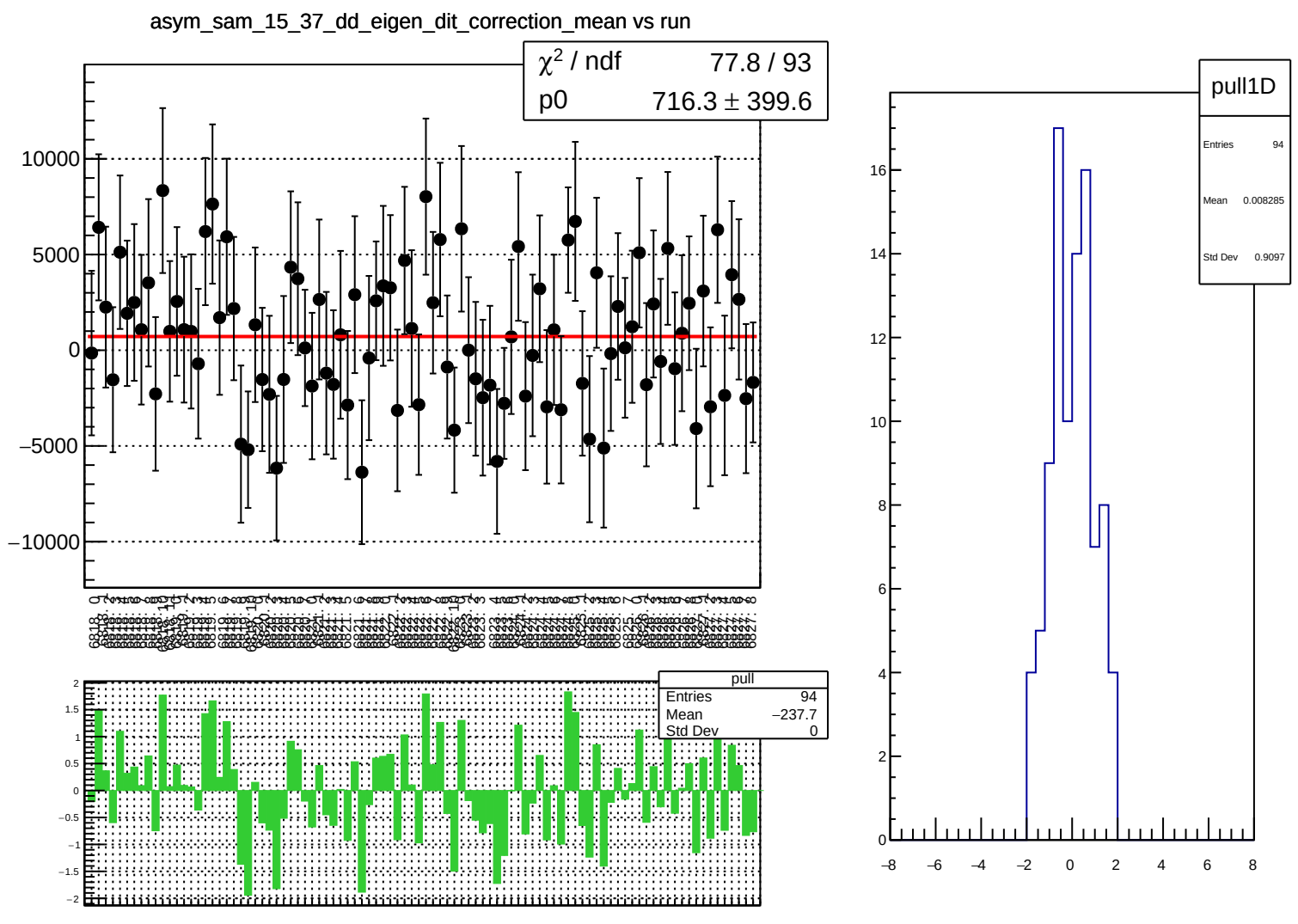

pull1D
Entries 94
Mean 0.008285
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

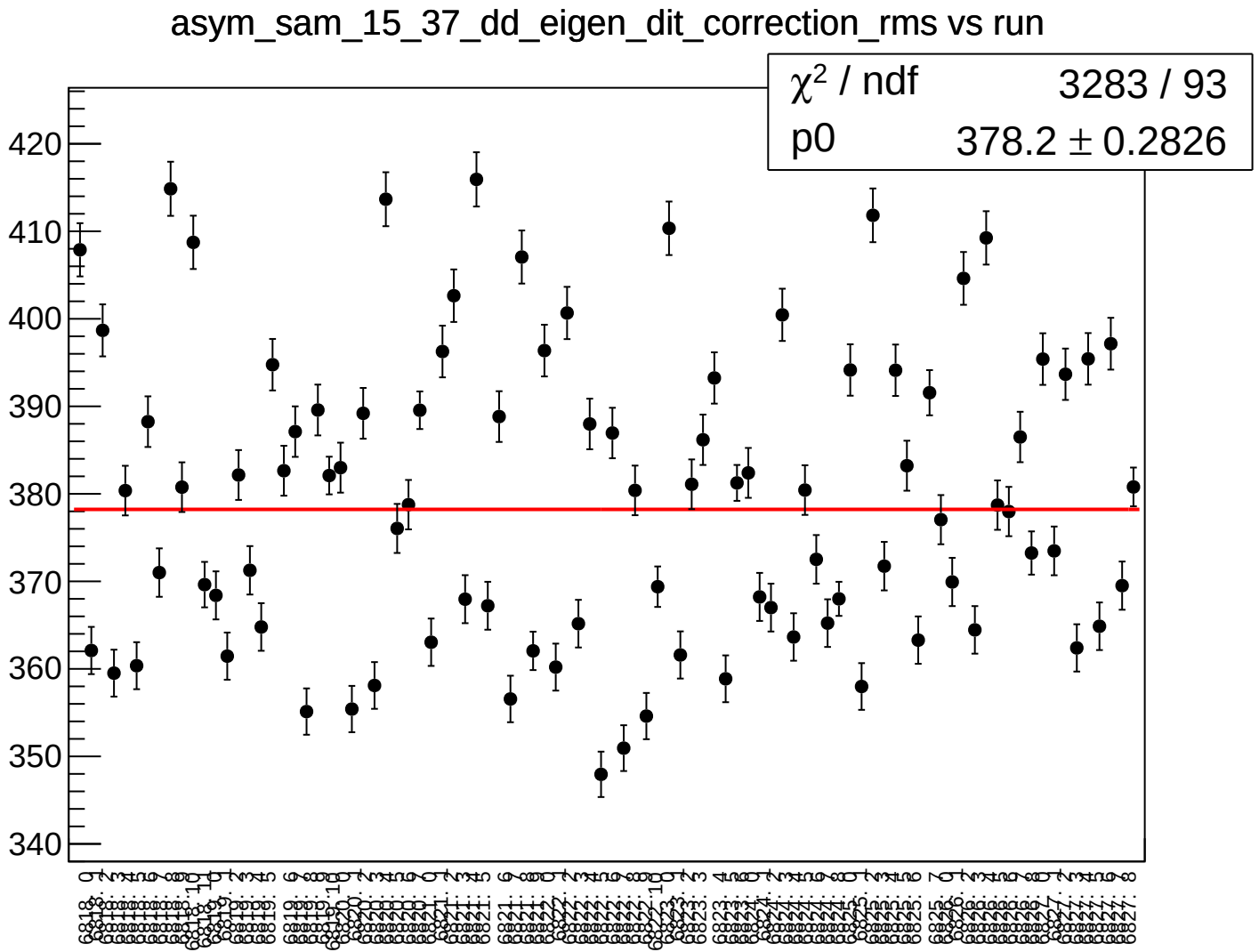

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 3283 / 93
p0 378.2 ± 0.2826
420
410
400
390
380
370
360
350
340

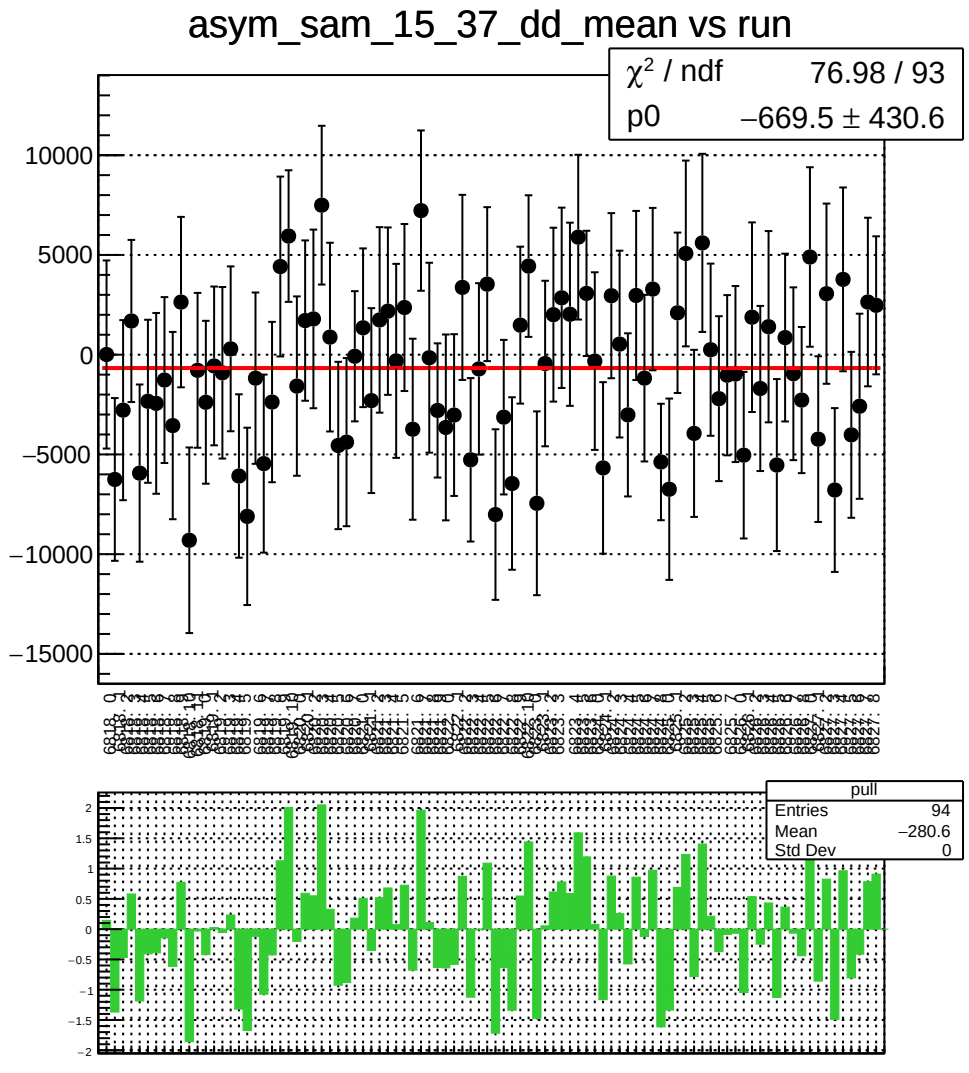

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.19 / 93
p0 56.41 ± 53.13
pull
Entries 94
Mean −212.6
Std Dev 0

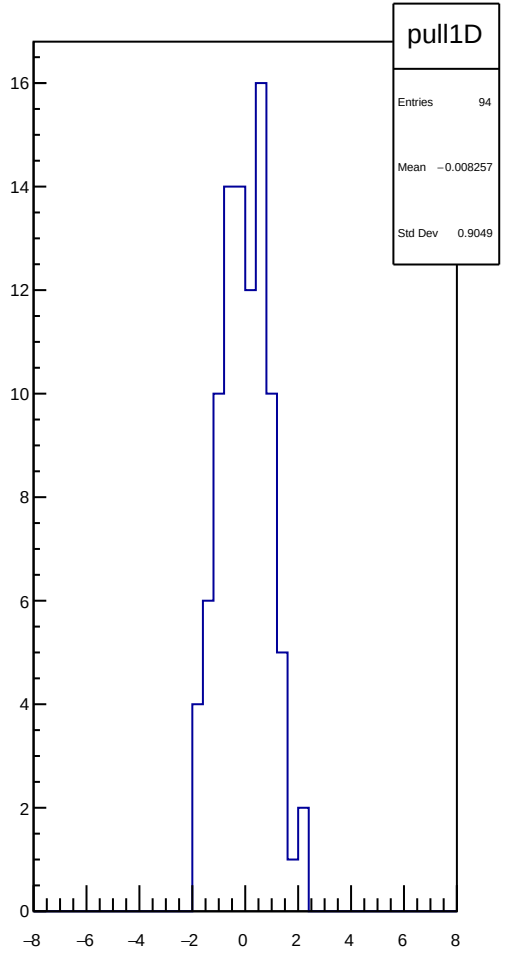

pull1D
Entries 94
Mean −0.01539
Std Dev 0.9518

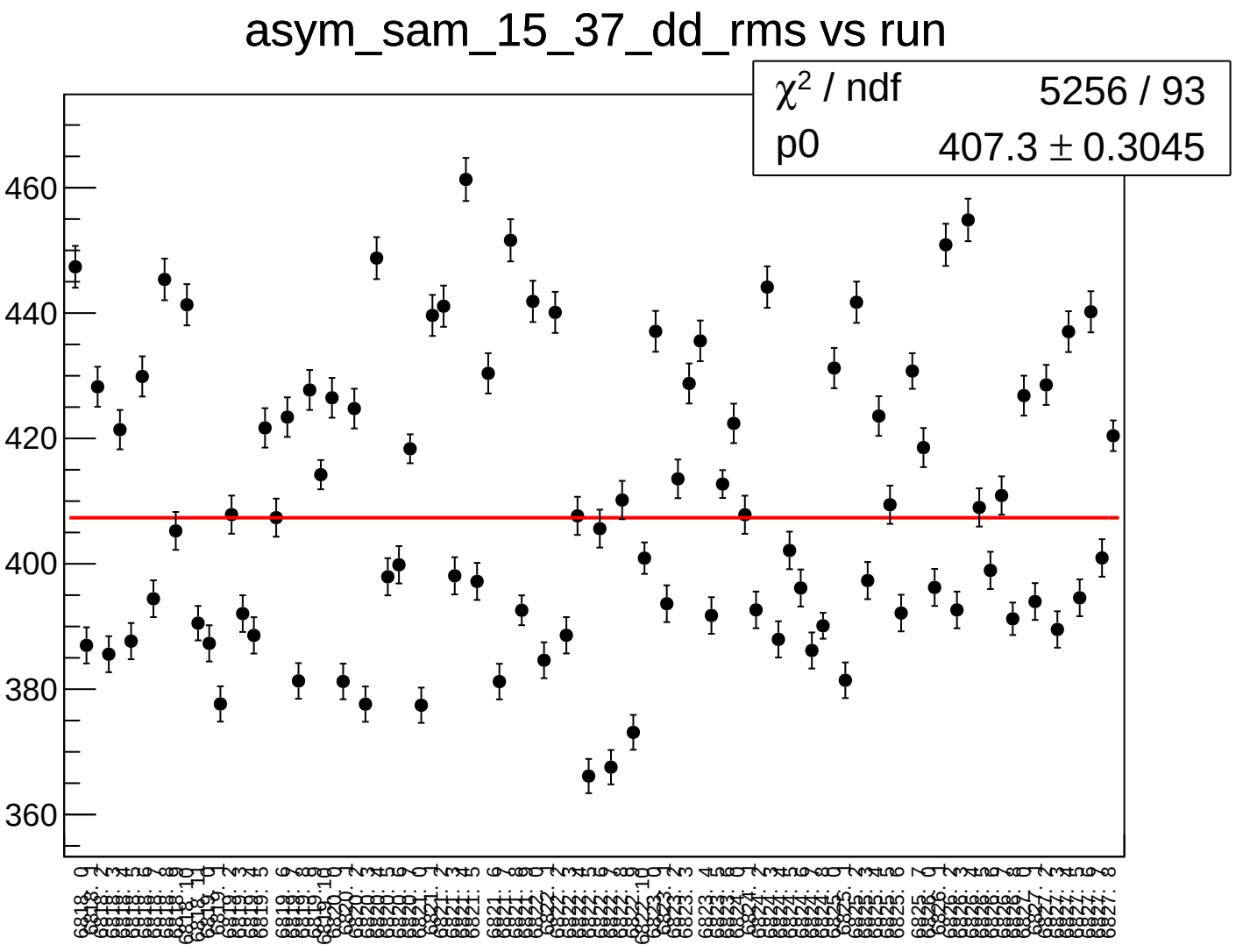

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.378e+04 / 93
p0 50 ± 0.03757
70
65
60
55
50
45
40

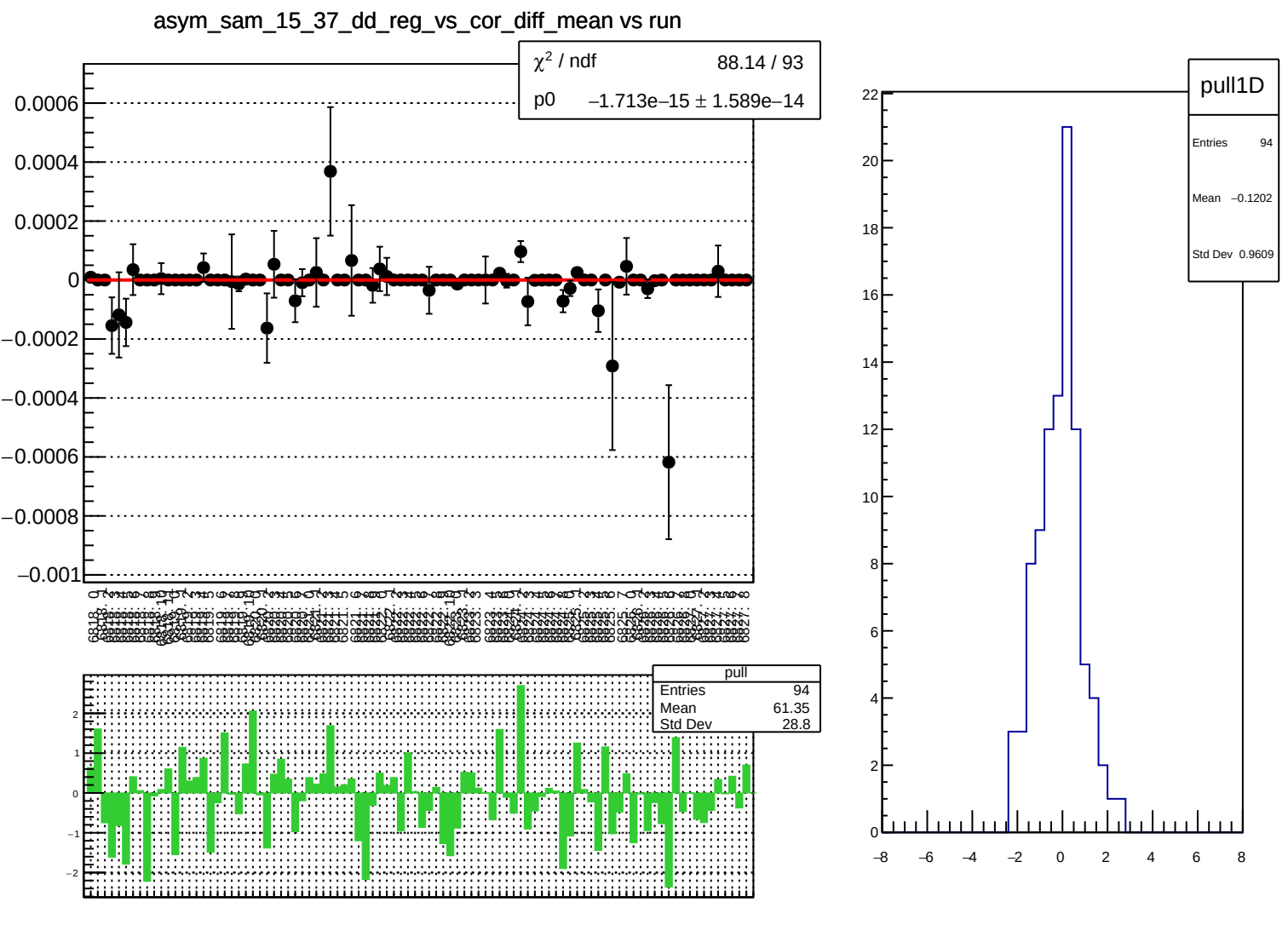

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 77.8 / 93
p0 716.3 ± 399.6
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −237.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.008285
Std Dev 0.9097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

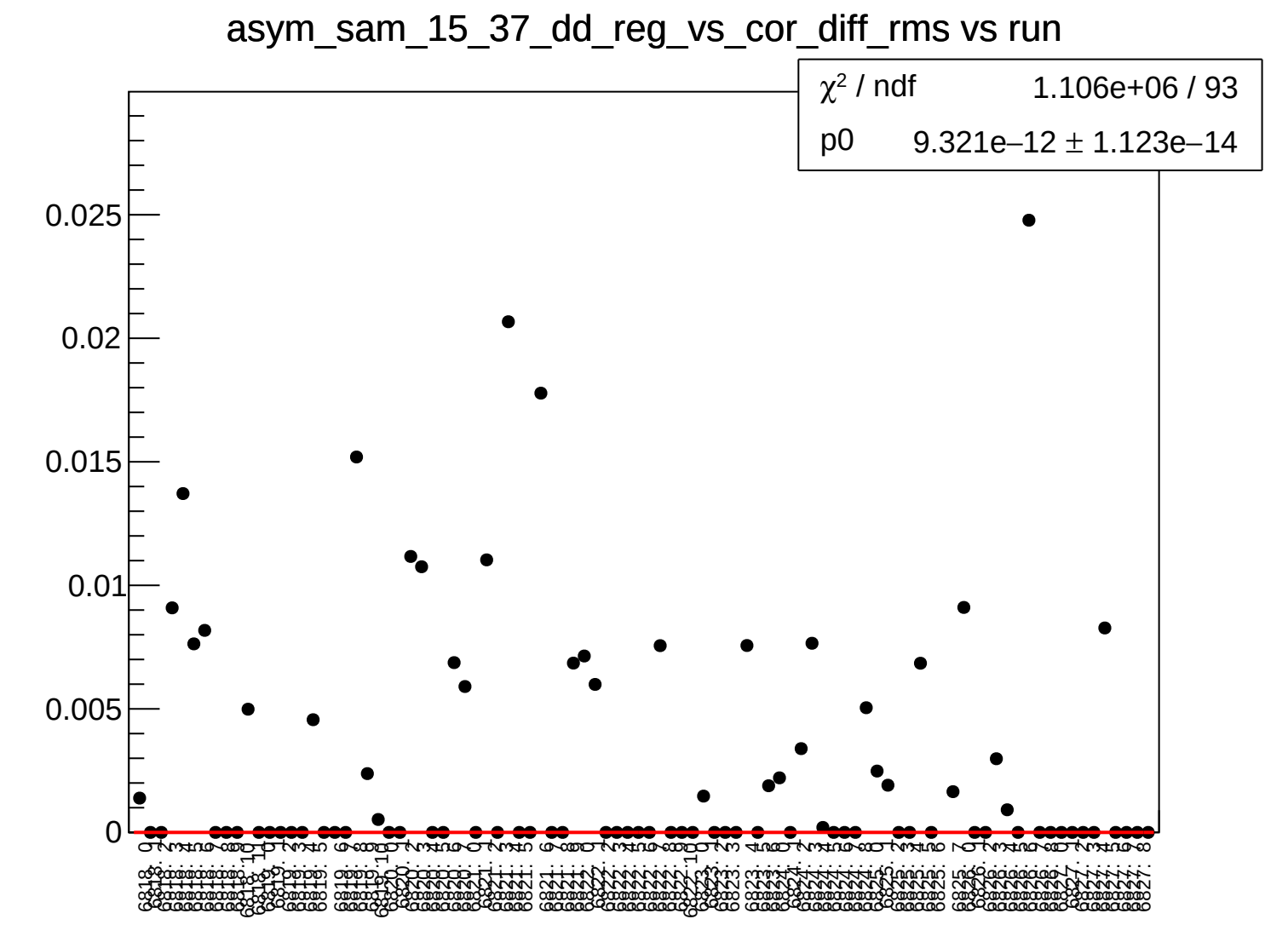

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3283 / 93
p0 378.2 ± 0.2826
420
410
400
390
380
370
360
350
340

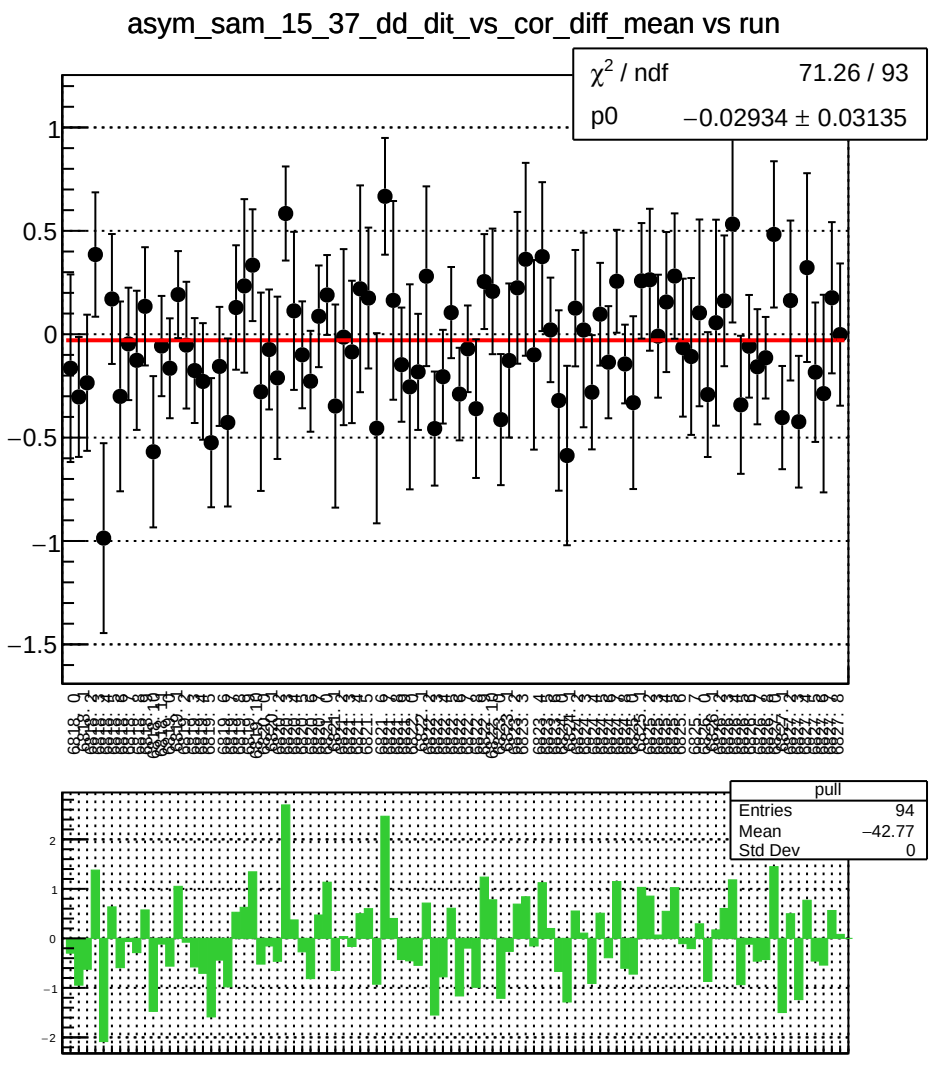

asym_sam_15_37_dd_mean vs run
χ² / ndf 76.98 / 93
p0 −669.5 ± 430.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −280.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

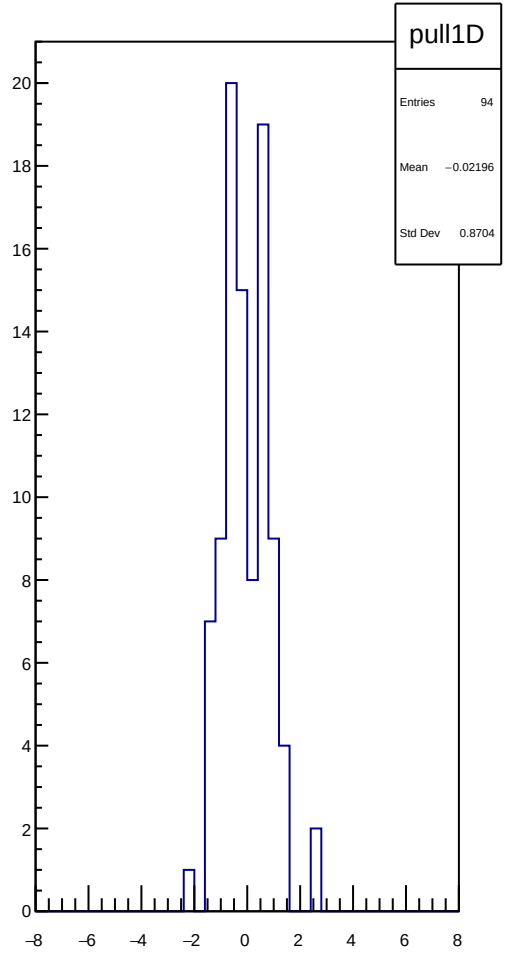

pull1D
Entries 94
Mean −0.008257
Std Dev 0.9049
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

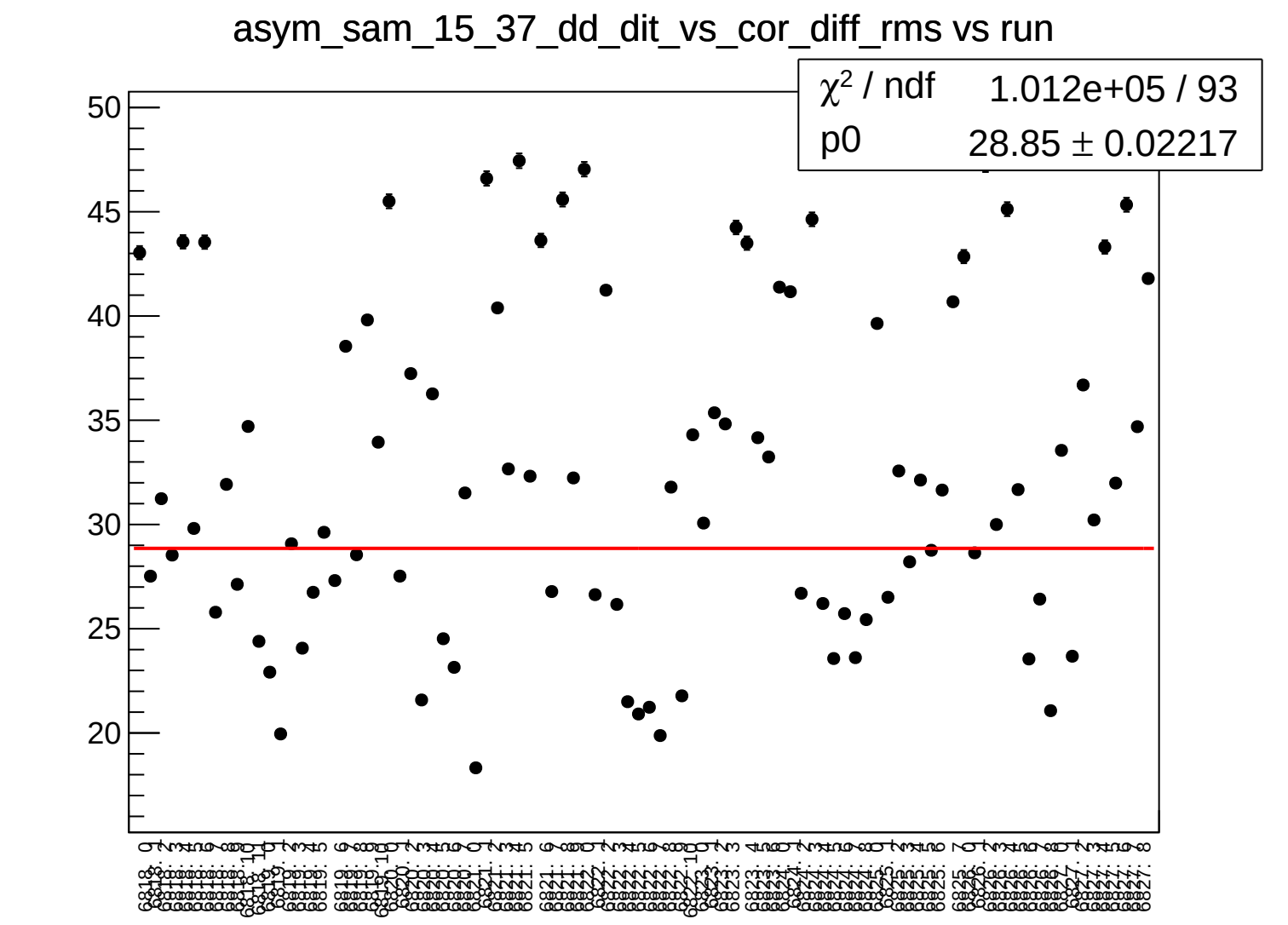

asym_sam_15_37_dd_rms vs run
χ^2 / ndf 5256 / 93
p0 407.3 ± 0.3045
460
440
420
400
380
360

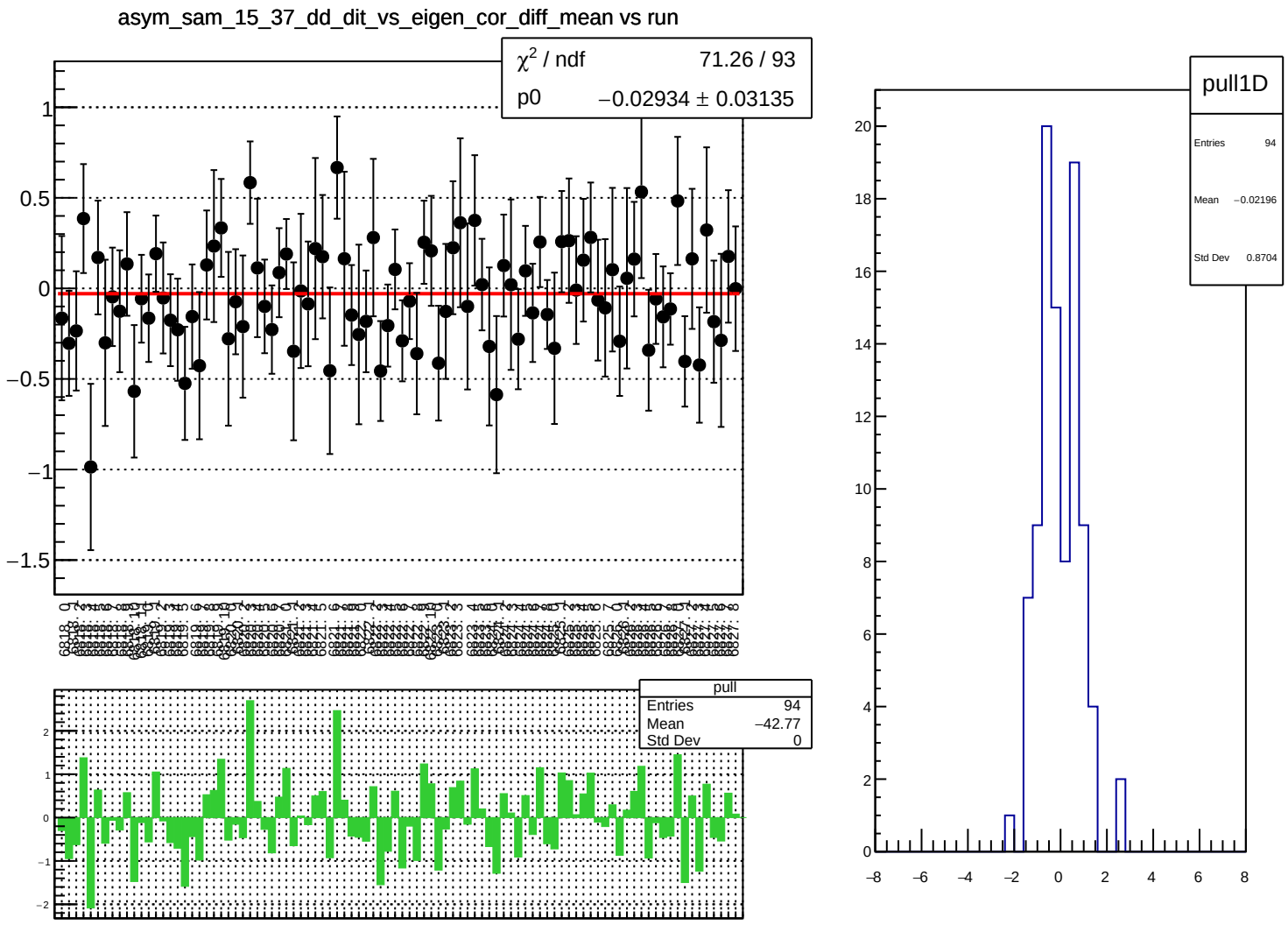

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.14 / 93
p0 −1.713e−15 ± 1.589e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 94
Mean 61.35
Std Dev 28.8
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.1202
Std Dev 0.9609
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

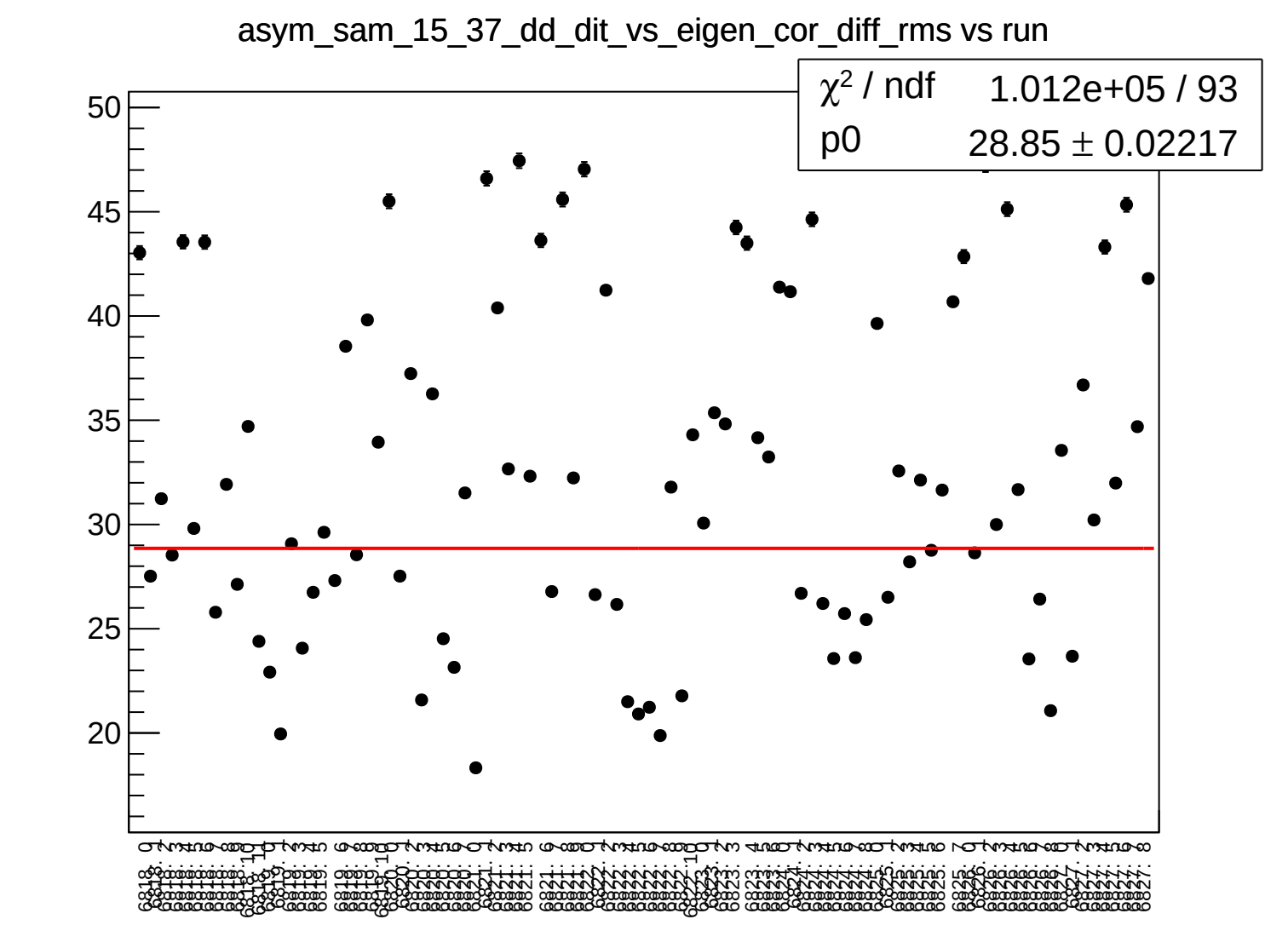

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.106e+06 / 93
p0 9.321e−12 ± 1.123e−14
0.025
0.02
0.015
0.01
0.005
0

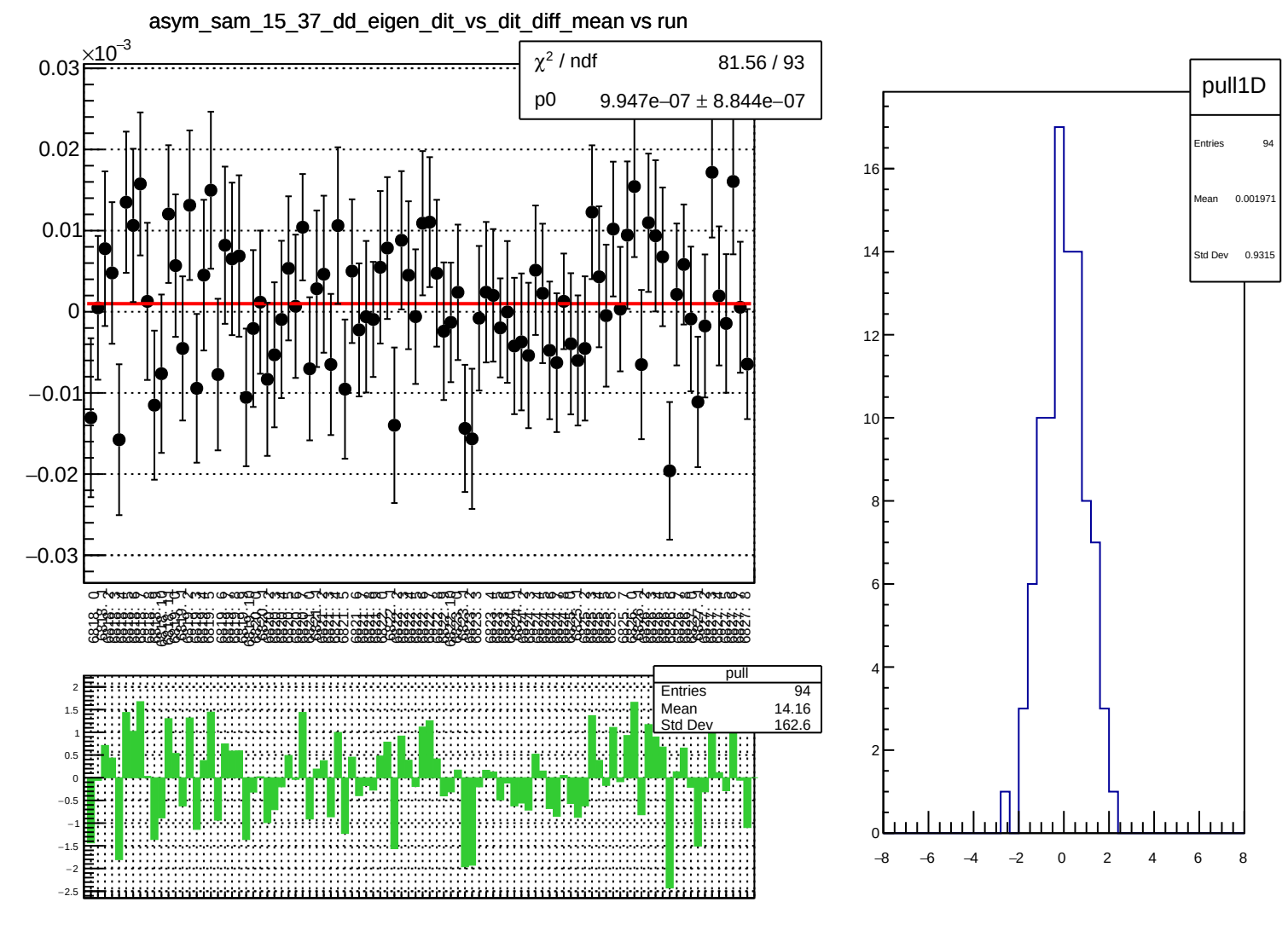

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.26 / 93
p0 −0.02934 ± 0.03135
pull
Entries 94
Mean −42.77
Std Dev 0

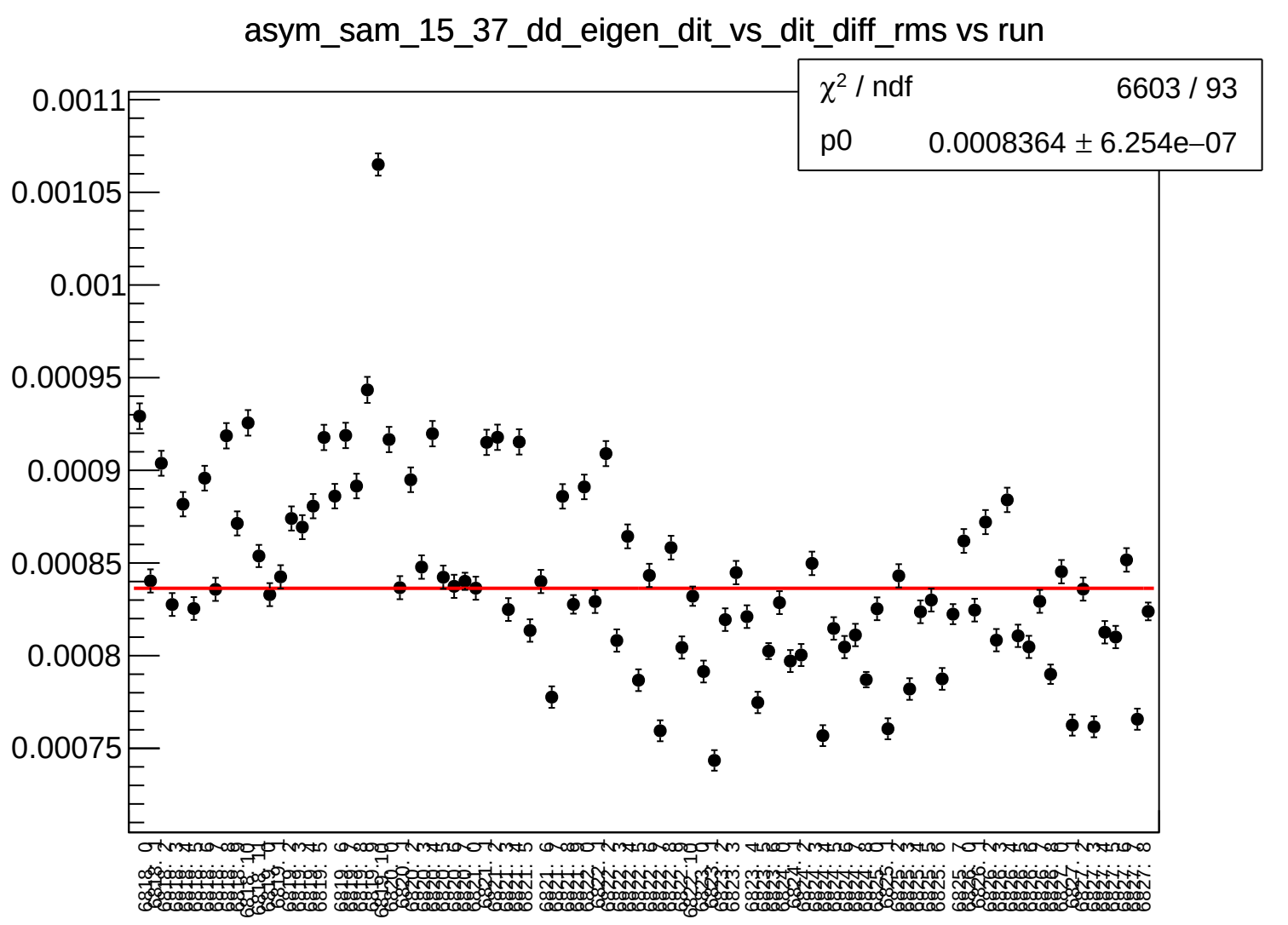

pull1D
Entries 94
Mean −0.02196
Std Dev 0.8704

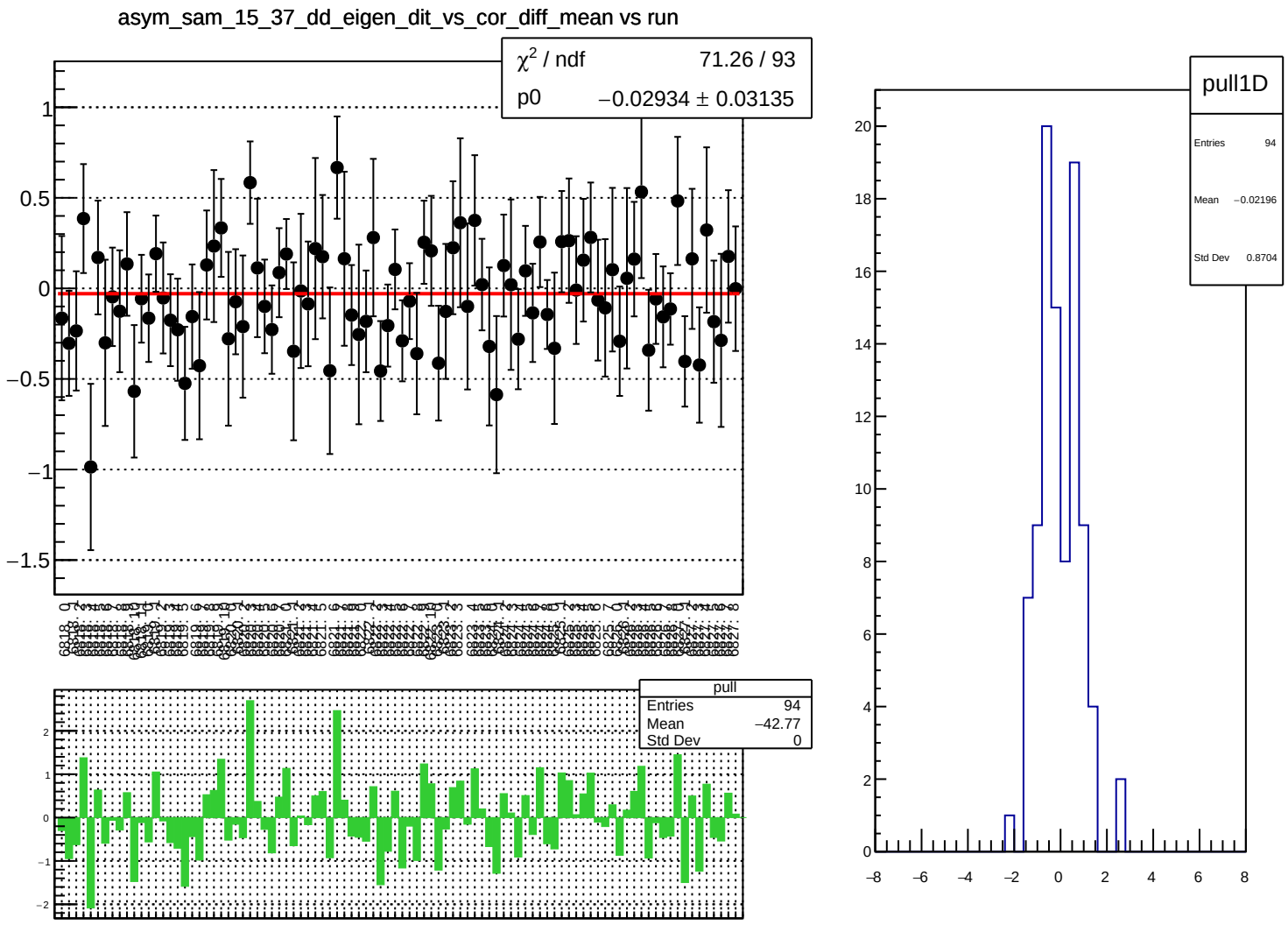

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.012e+05 / 93
p0 28.85 ± 0.02217
50
45
40
35
30
25
20

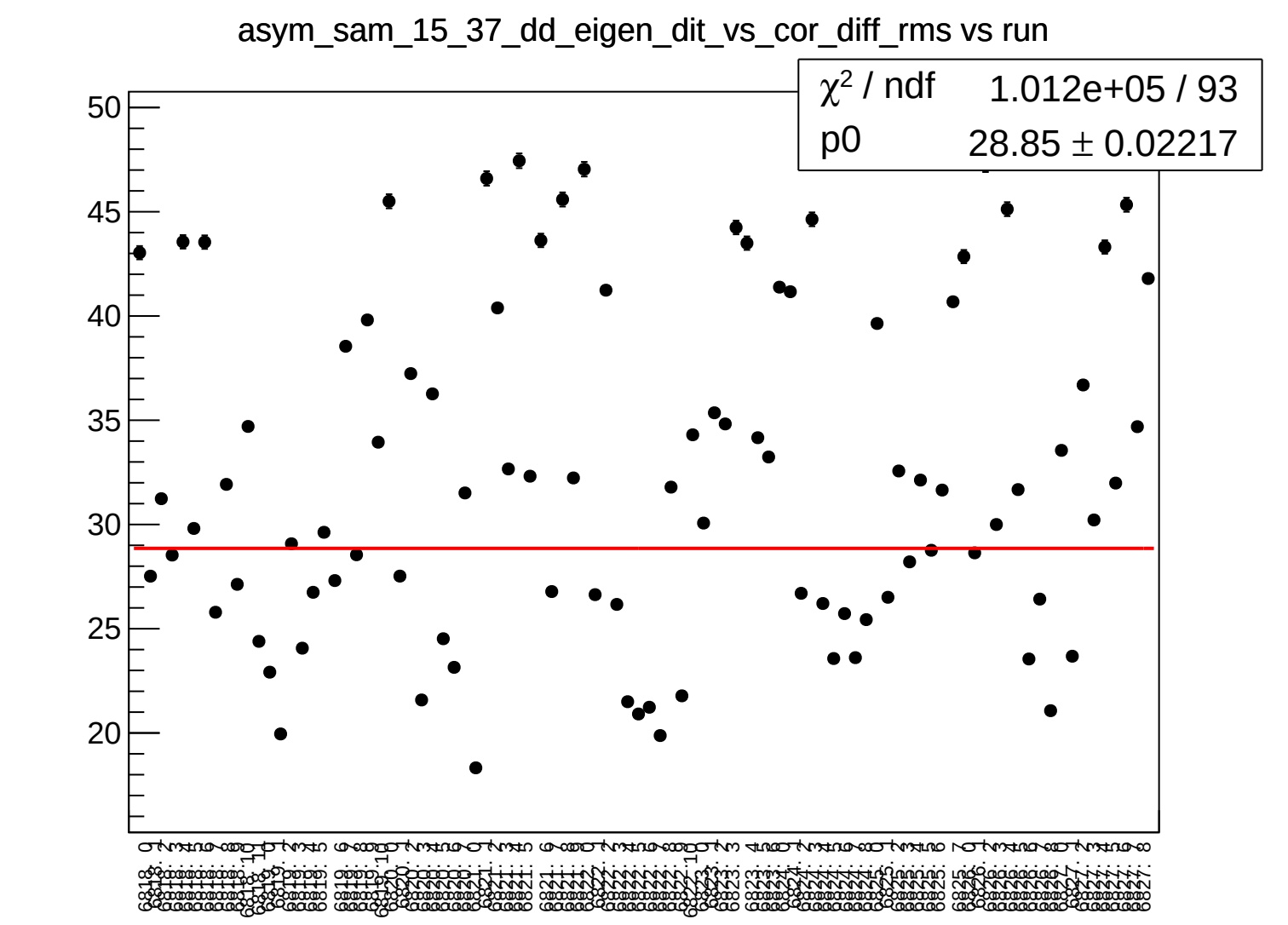

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.26 / 93
p0 −0.02934 ± 0.03135
pull
Entries 94
Mean −42.77
Std Dev 0
pull1D
Entries 94
Mean −0.02196
Std Dev 0.8704

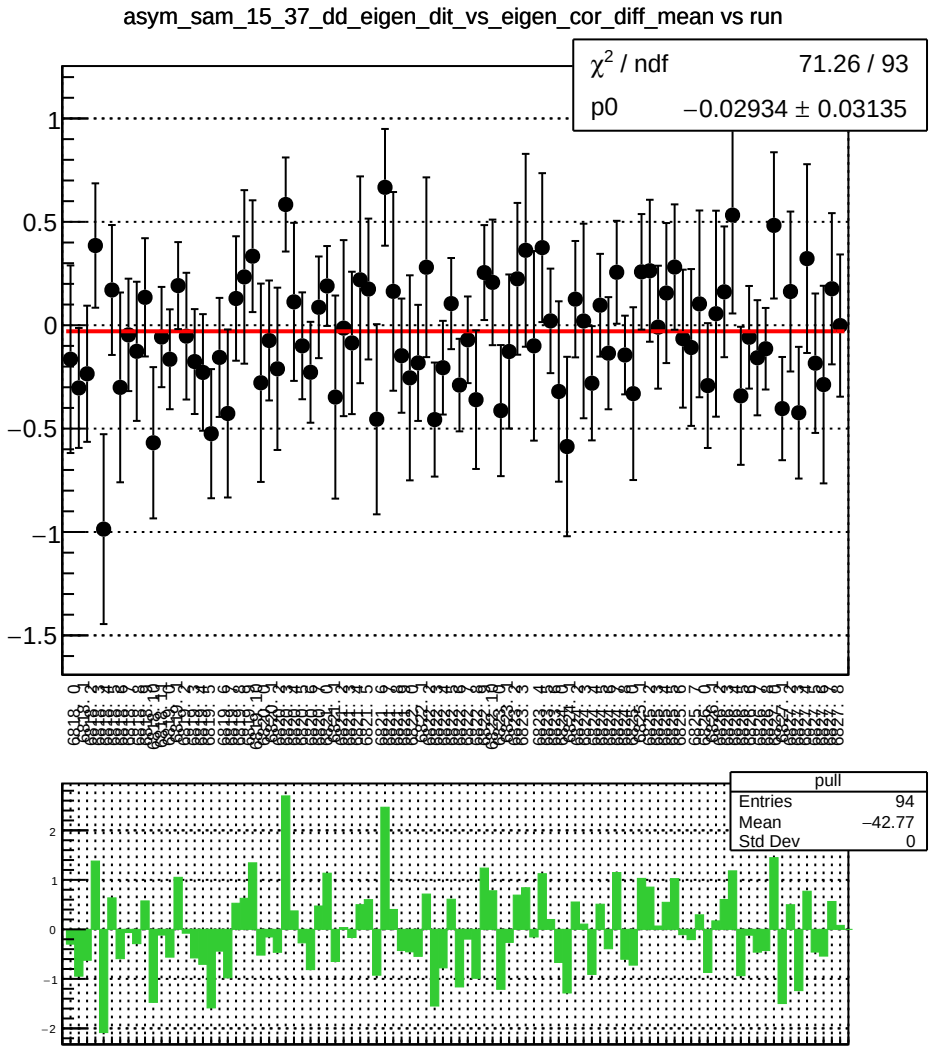

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 93
p0 28.85 ± 0.02217
50
45
40
35
30
25
20

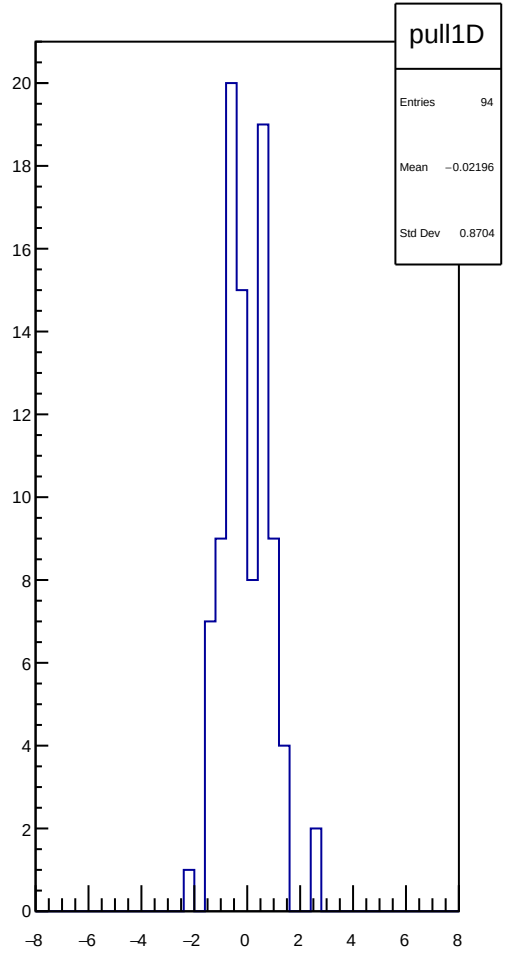

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.56 / 93
p0 9.947e−07 ± 8.844e−07
pull
Entries 94
Mean 14.16
Std Dev 162.6
pull1D
Entries 94
Mean 0.001971
Std Dev 0.9315

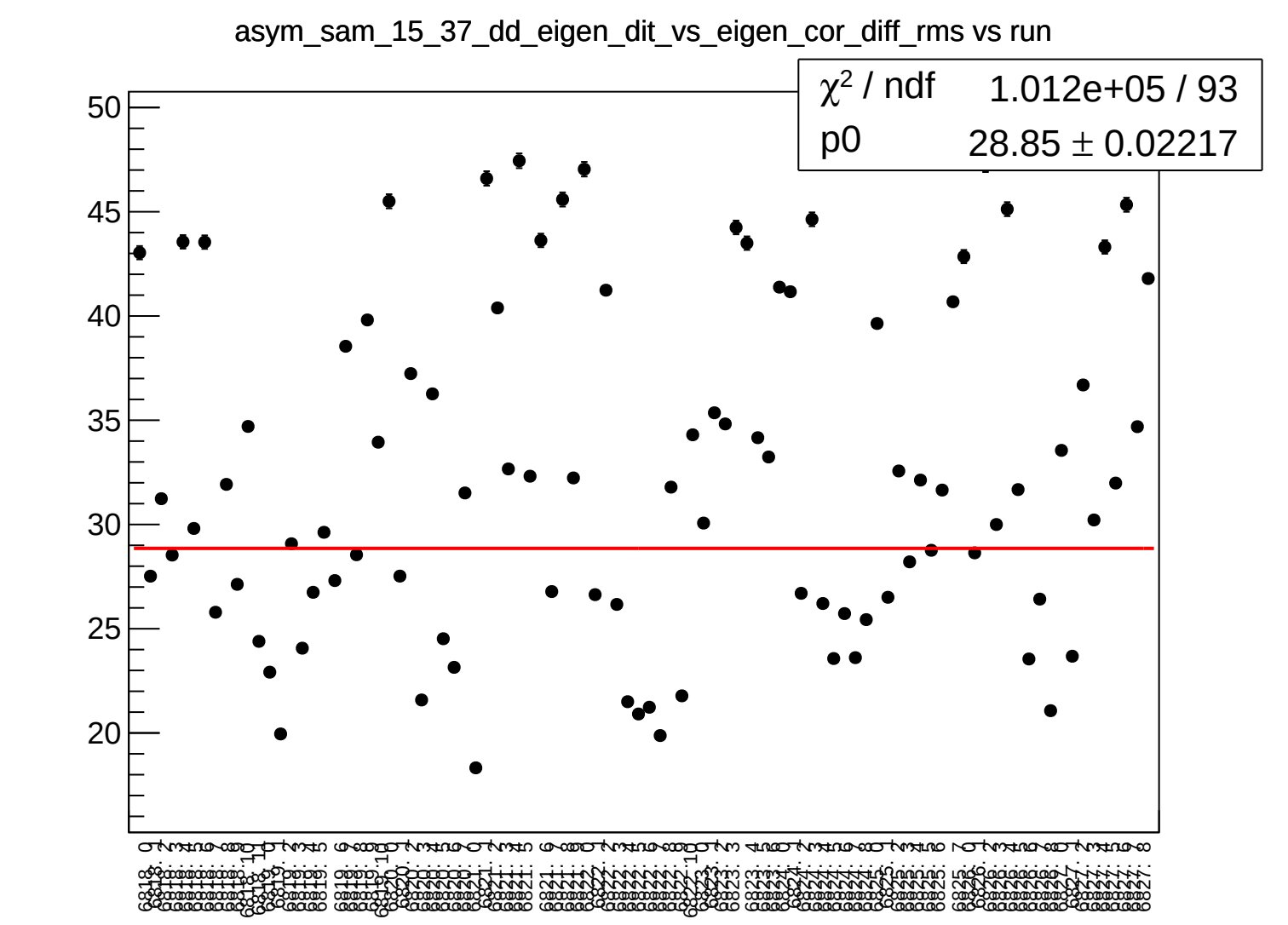

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6603 / 93
p0 0.0008364 ± 6.254e−07
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075

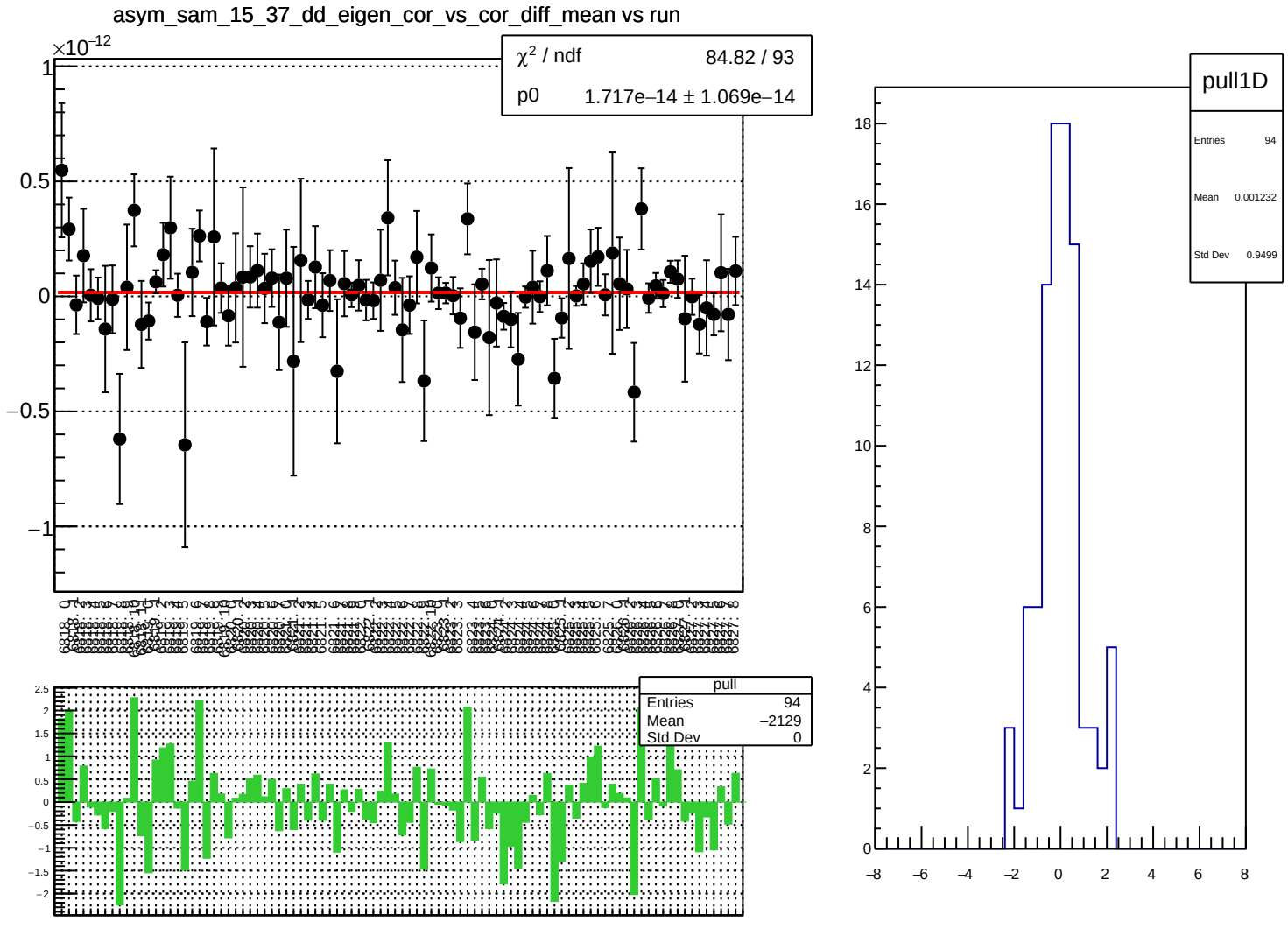

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.26 / 93
p0 −0.02934 ± 0.03135
pull
Entries 94
Mean −42.77
Std Dev 0
pull1D
Entries 94
Mean −0.02196
Std Dev 0.8704

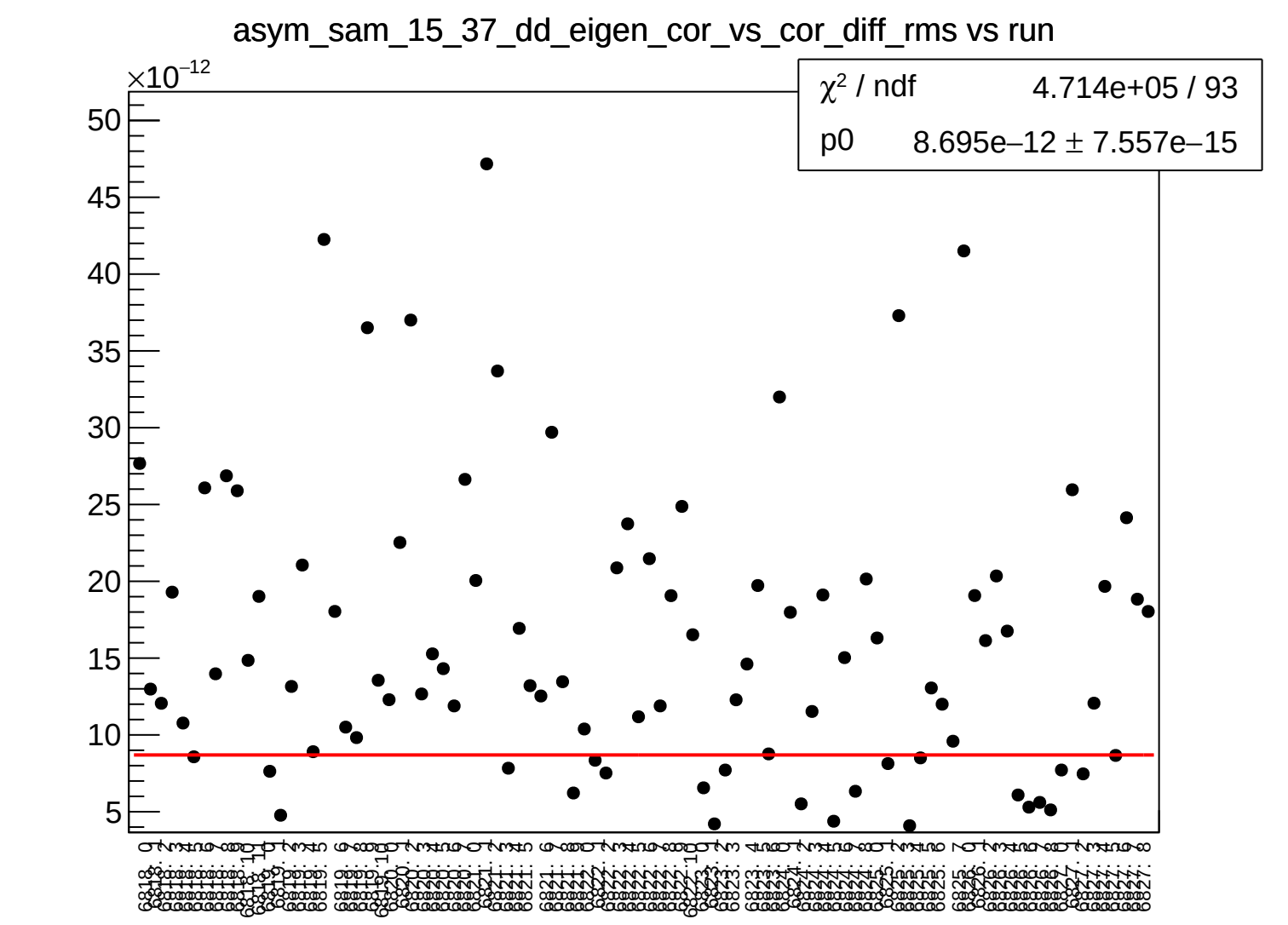

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 93
p0 28.85 ± 0.02217
50
45
40
35
30
25
20

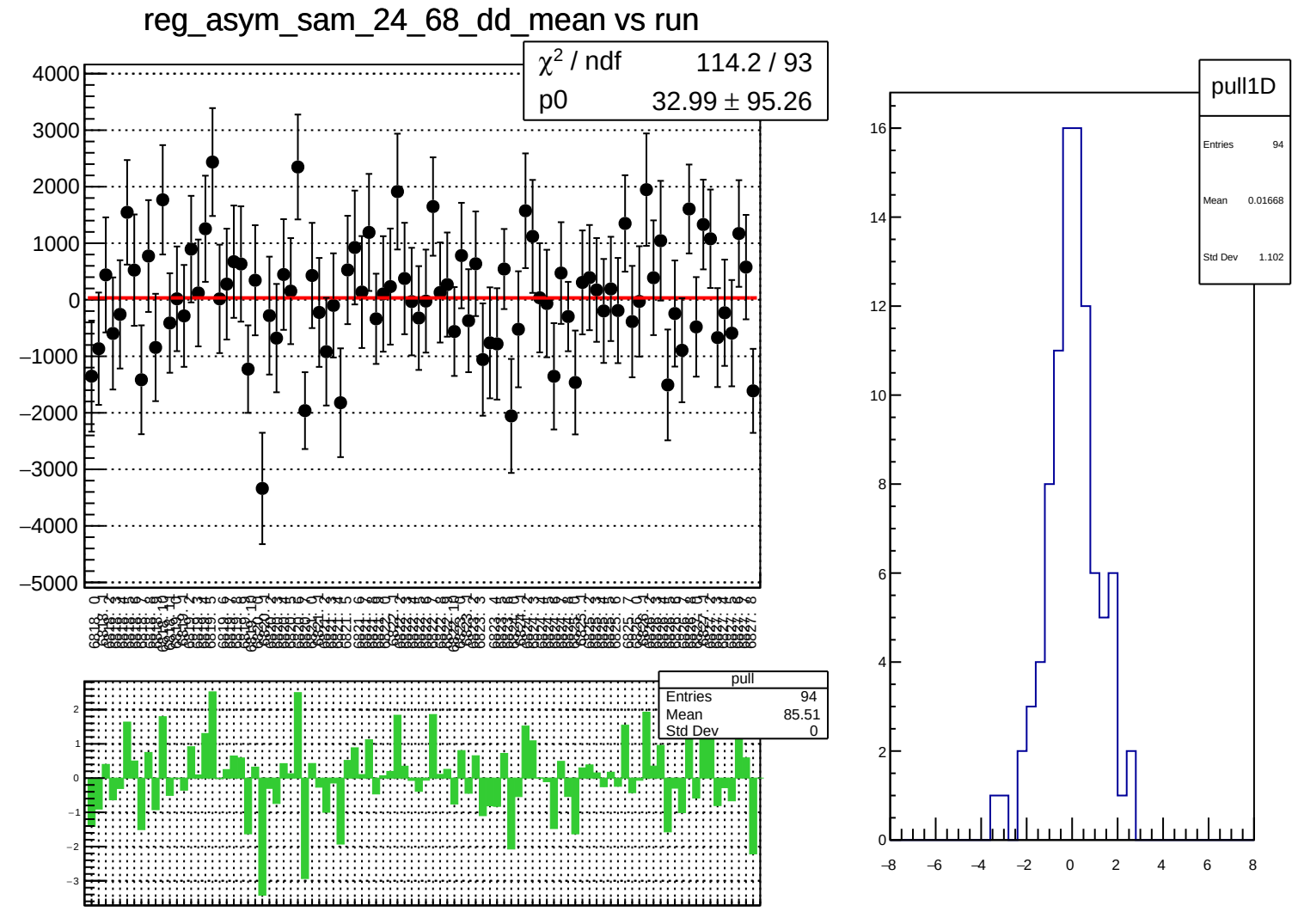

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.26 / 93
p0 −0.02934 ± 0.03135
pull
Entries 94
Mean −42.77
Std Dev 0

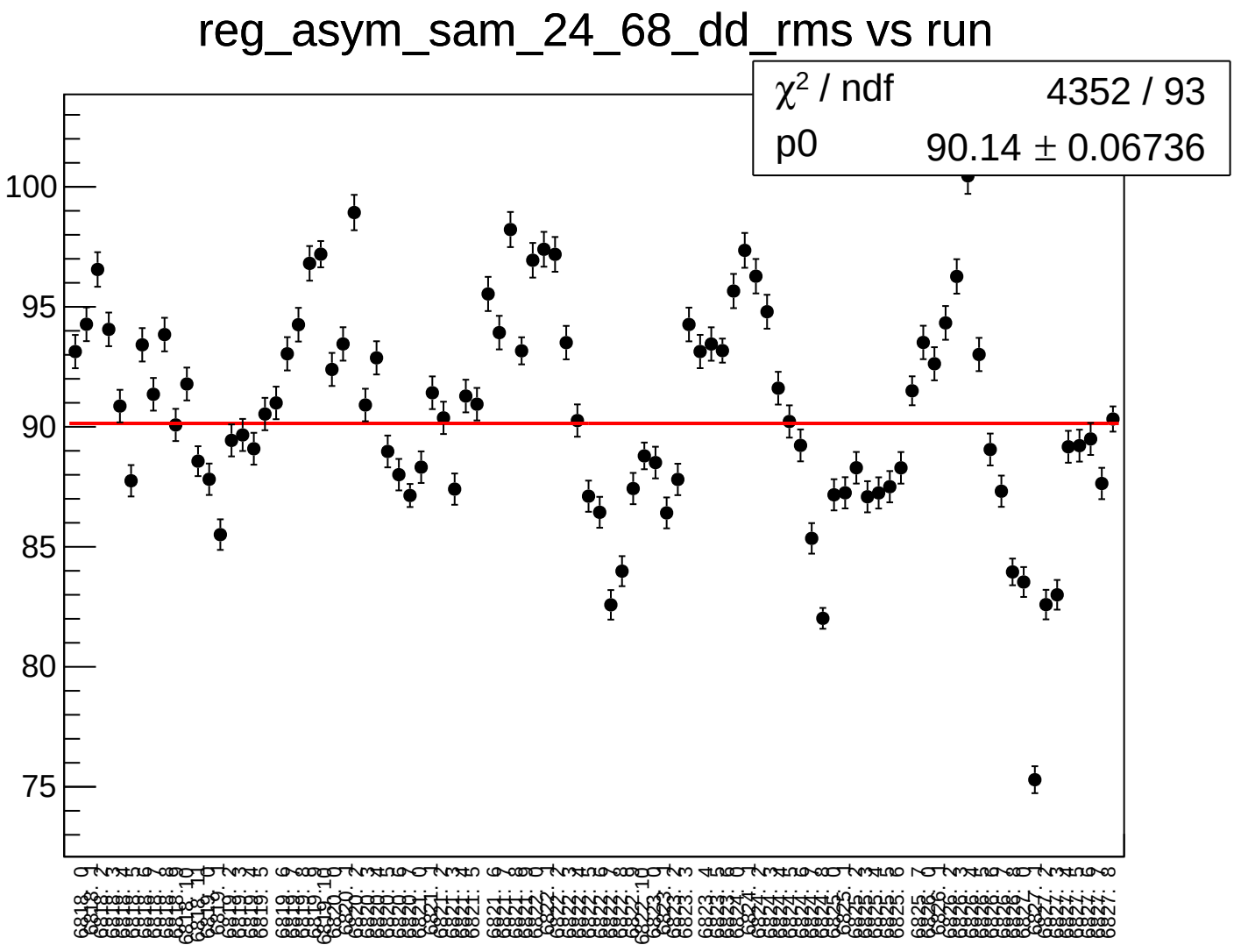

pull1D
Entries 94
Mean −0.02196
Std Dev 0.8704

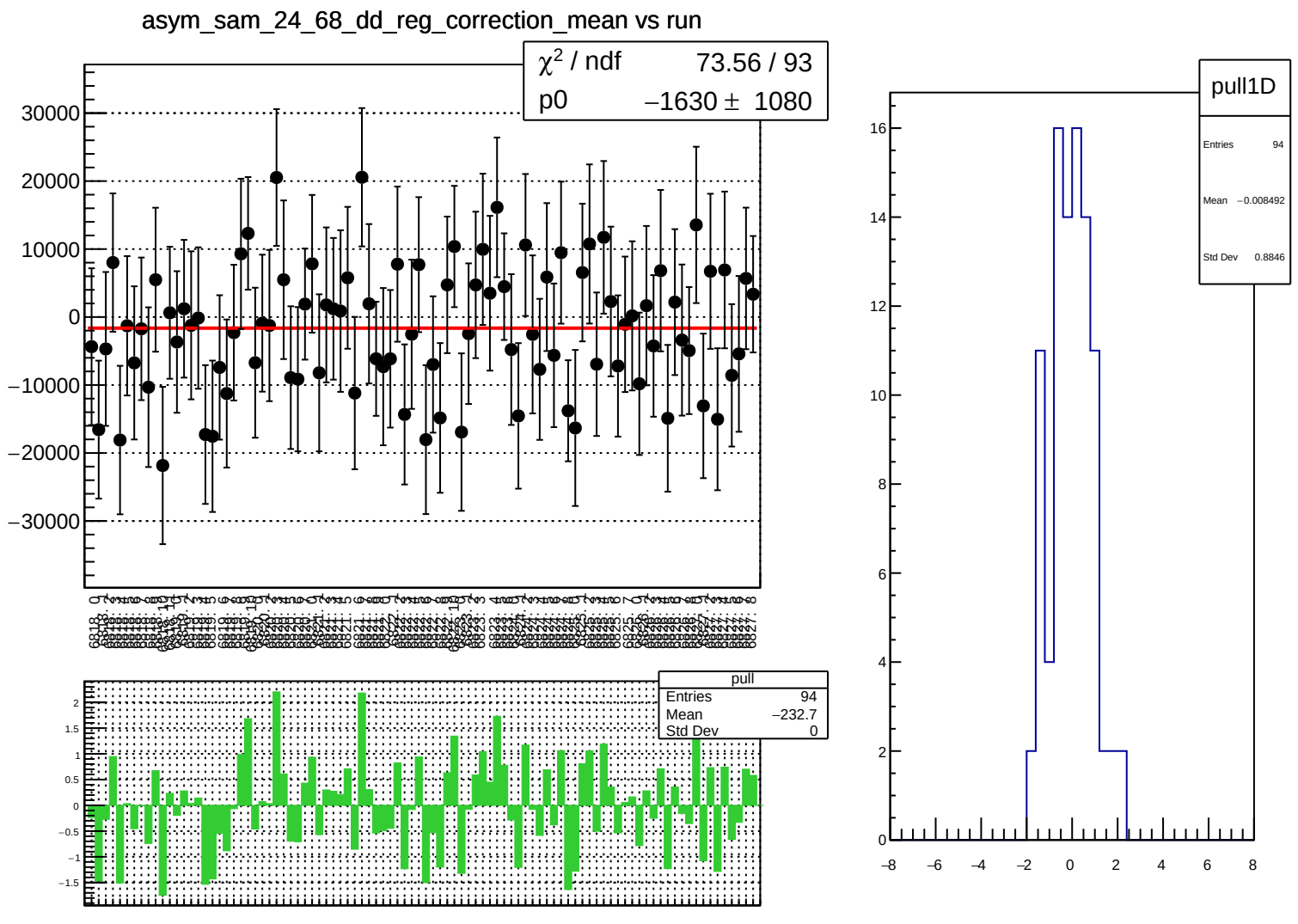

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.012e+05 / 93
p0 28.85 ± 0.02217
50
45
40
35
30
25
20

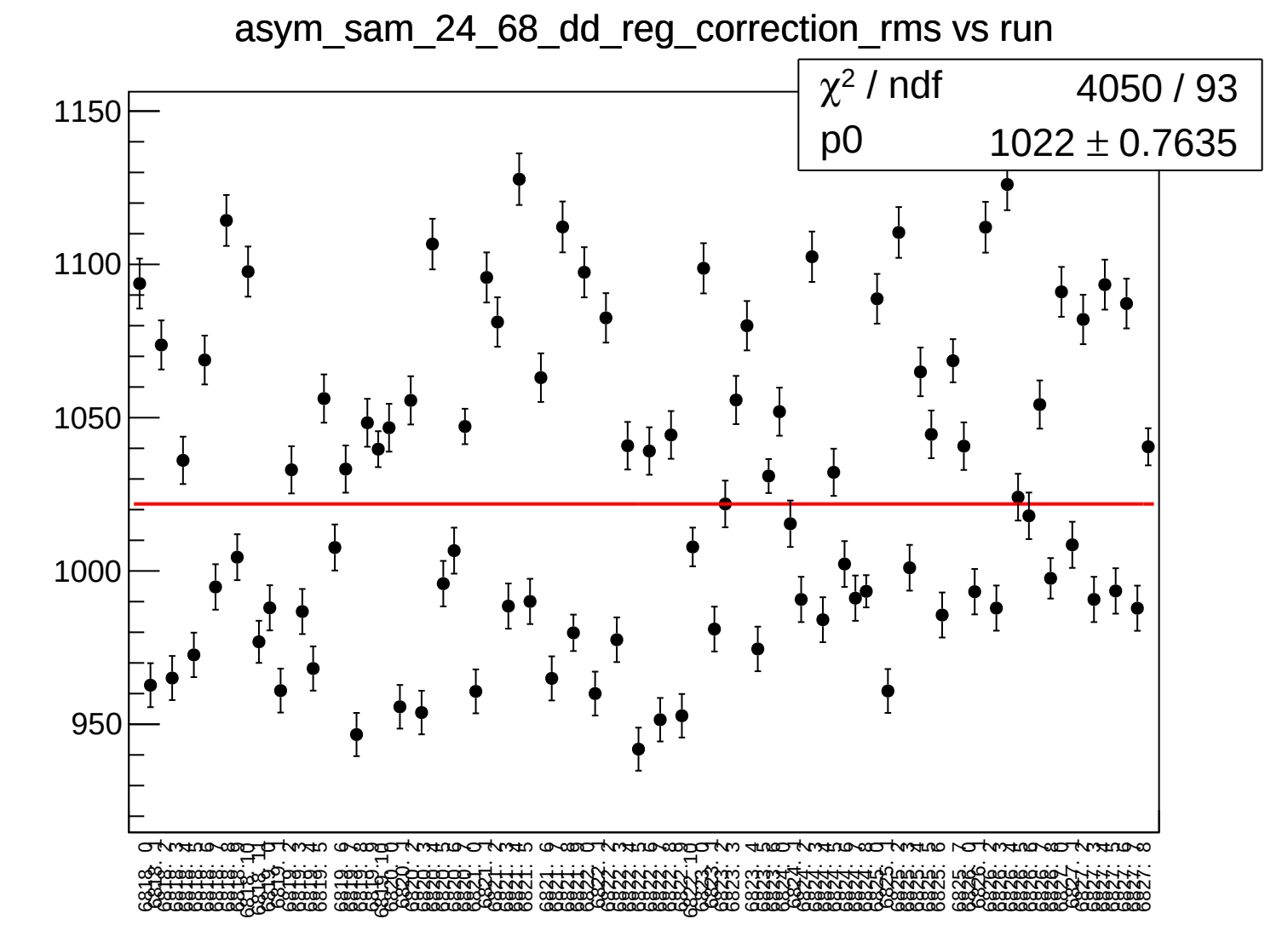

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 84.82 / 93
p0 1.717e−14 ± 1.069e−14
pull
Entries 94
Mean −2129
Std Dev 0
pull1D
Entries 94
Mean 0.001232
Std Dev 0.9499

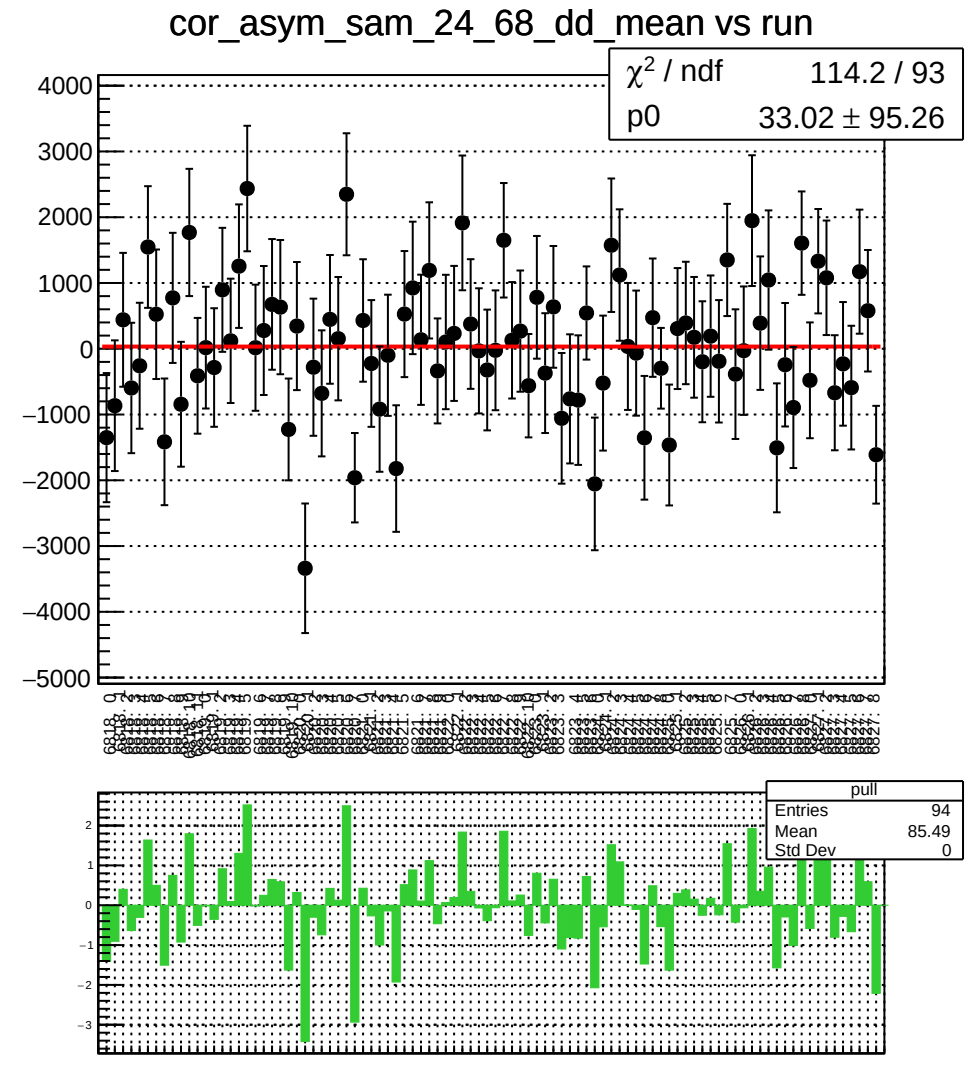

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.714e+05 / 93
p0 8.695e−12 ± 7.557e−15
50
45
40
35
30
25
20
15
10
5

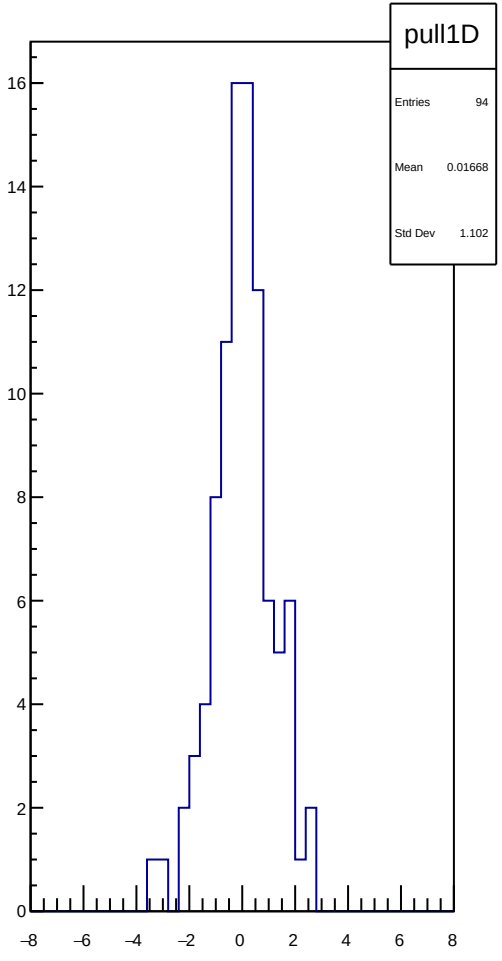

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 114.2 / 93
p0 32.99 ± 95.26
pull
Entries 94
Mean 85.51
Std Dev 0
pull1D
Entries 94
Mean 0.01668
Std Dev 1.102

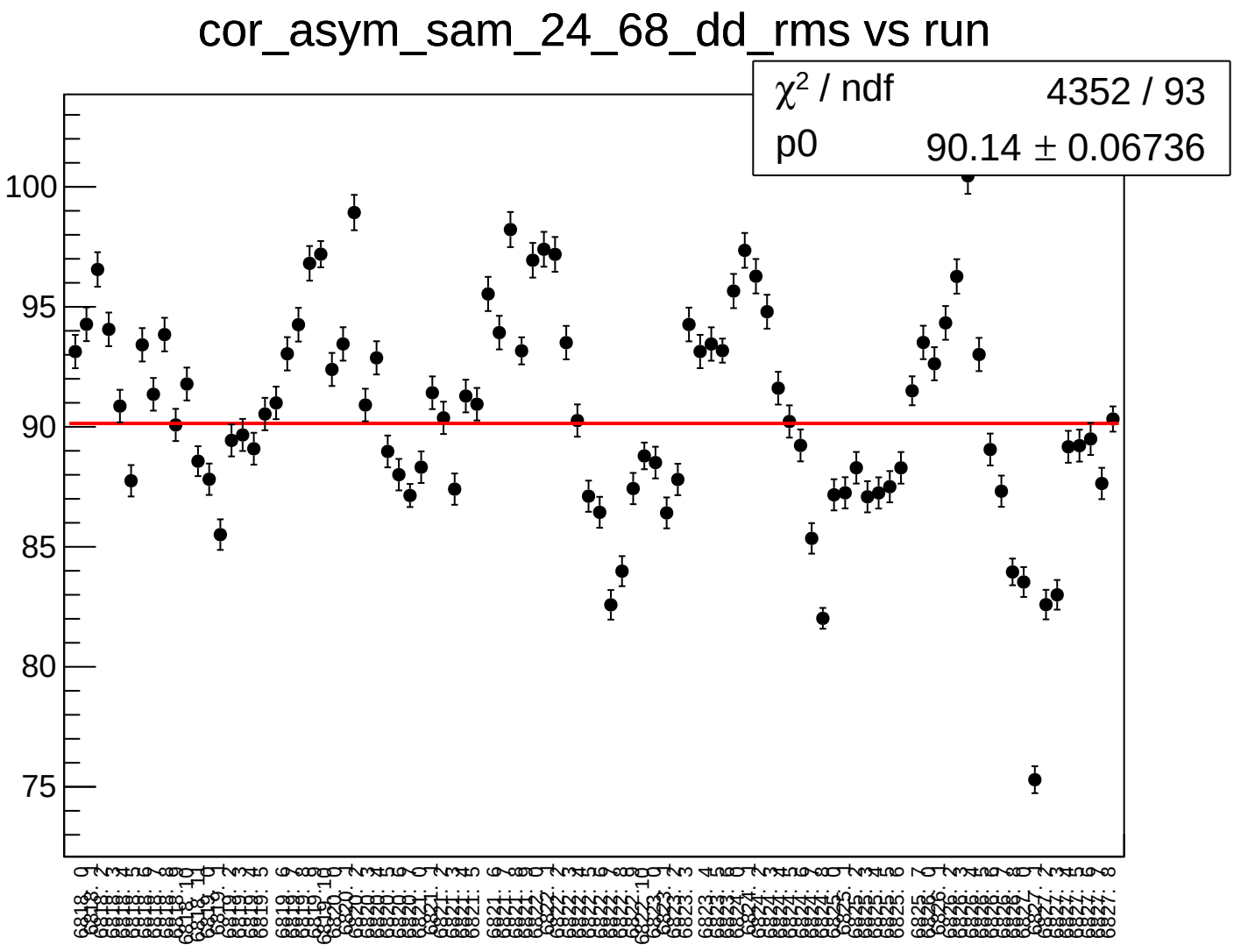

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4352 / 93
p0 90.14 ± 0.06736
100
95
90
85
80
75

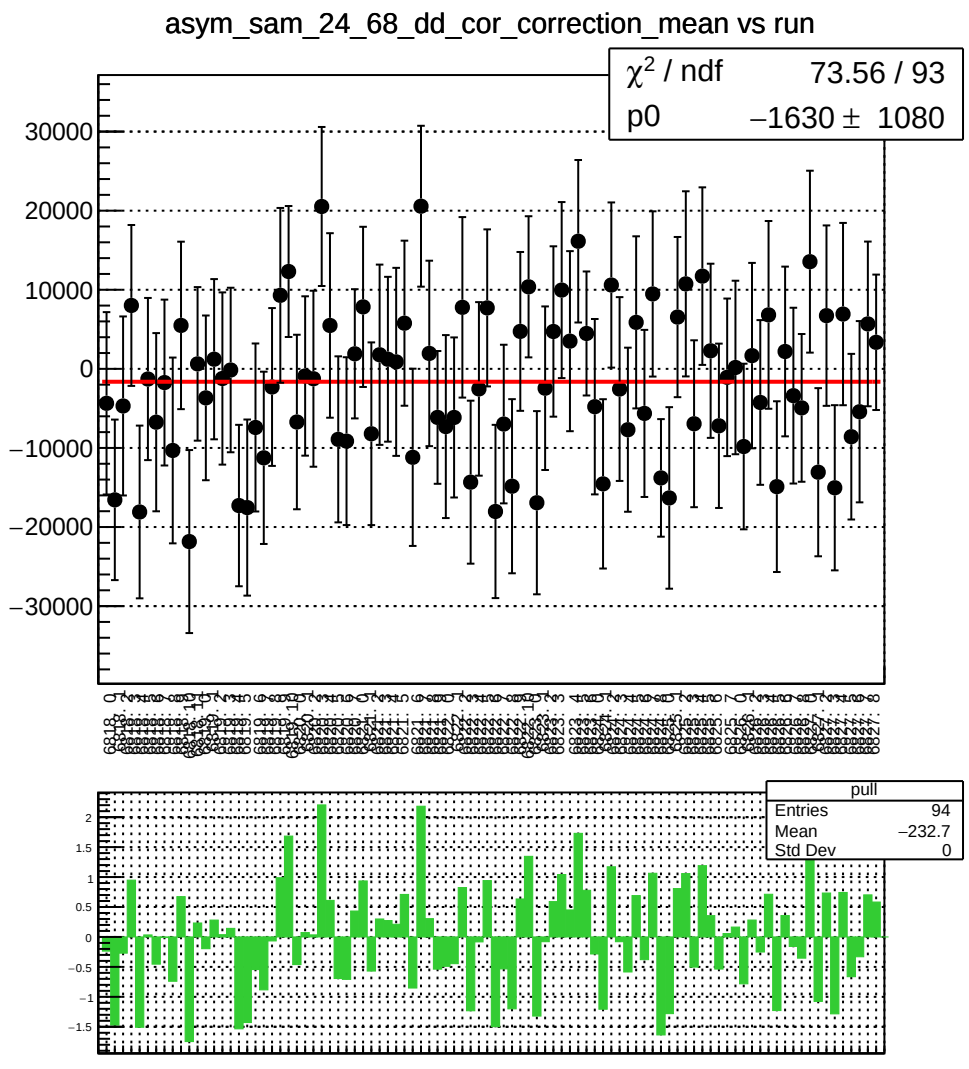

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 73.56 / 93
p0 −1630 ± 1080
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −232.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.008492
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

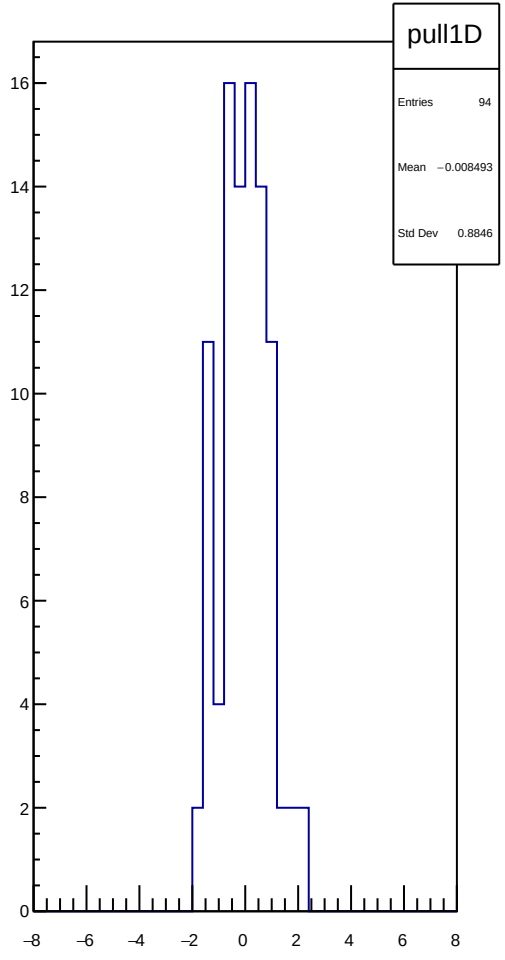

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4050 / 93
p0 1022 ± 0.7635
1150
1100
1050
1000
950

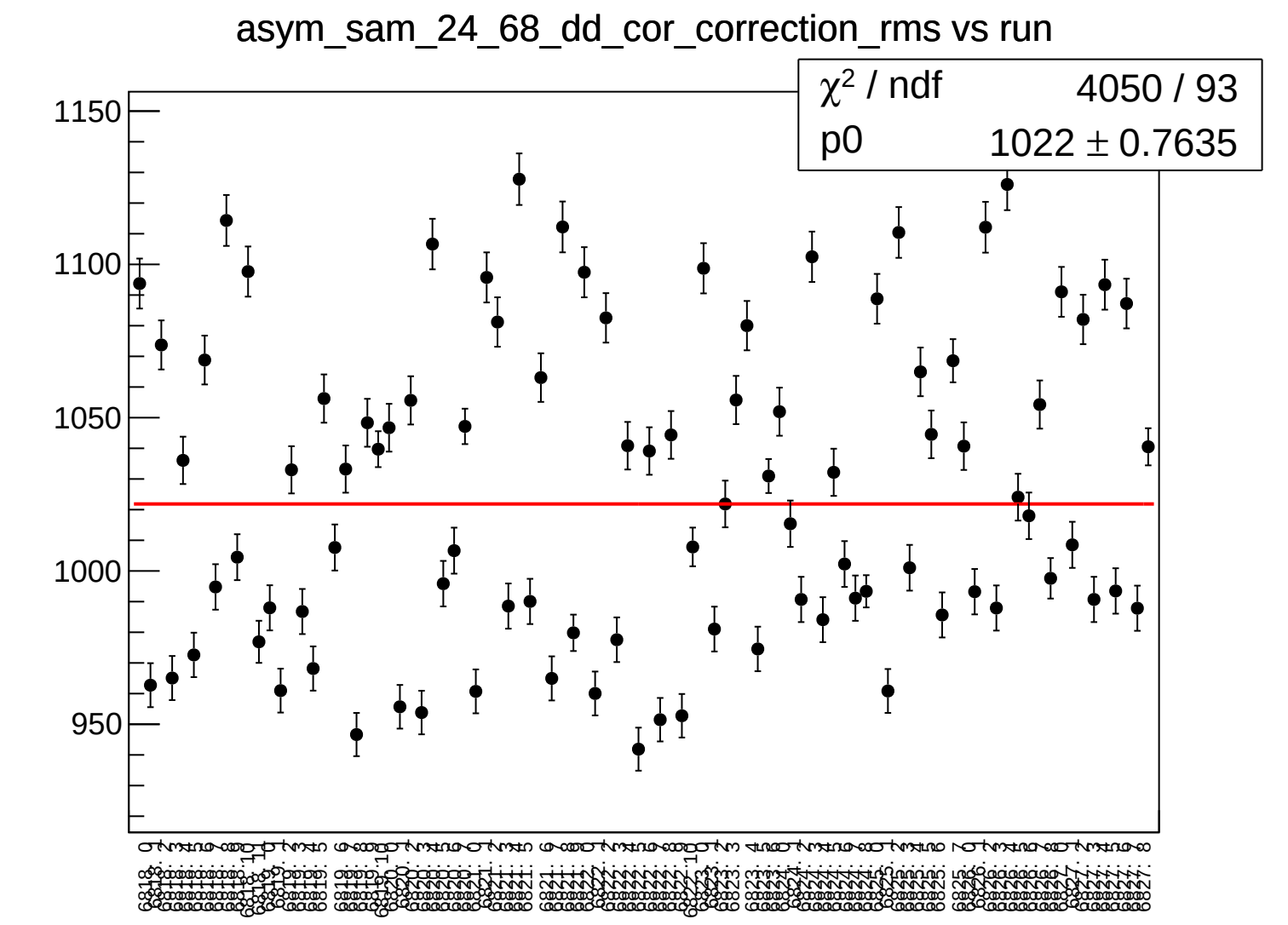

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 114.2 / 93
p0 33.02 ± 95.26
pull
Entries 94
Mean 85.49
Std Dev 0

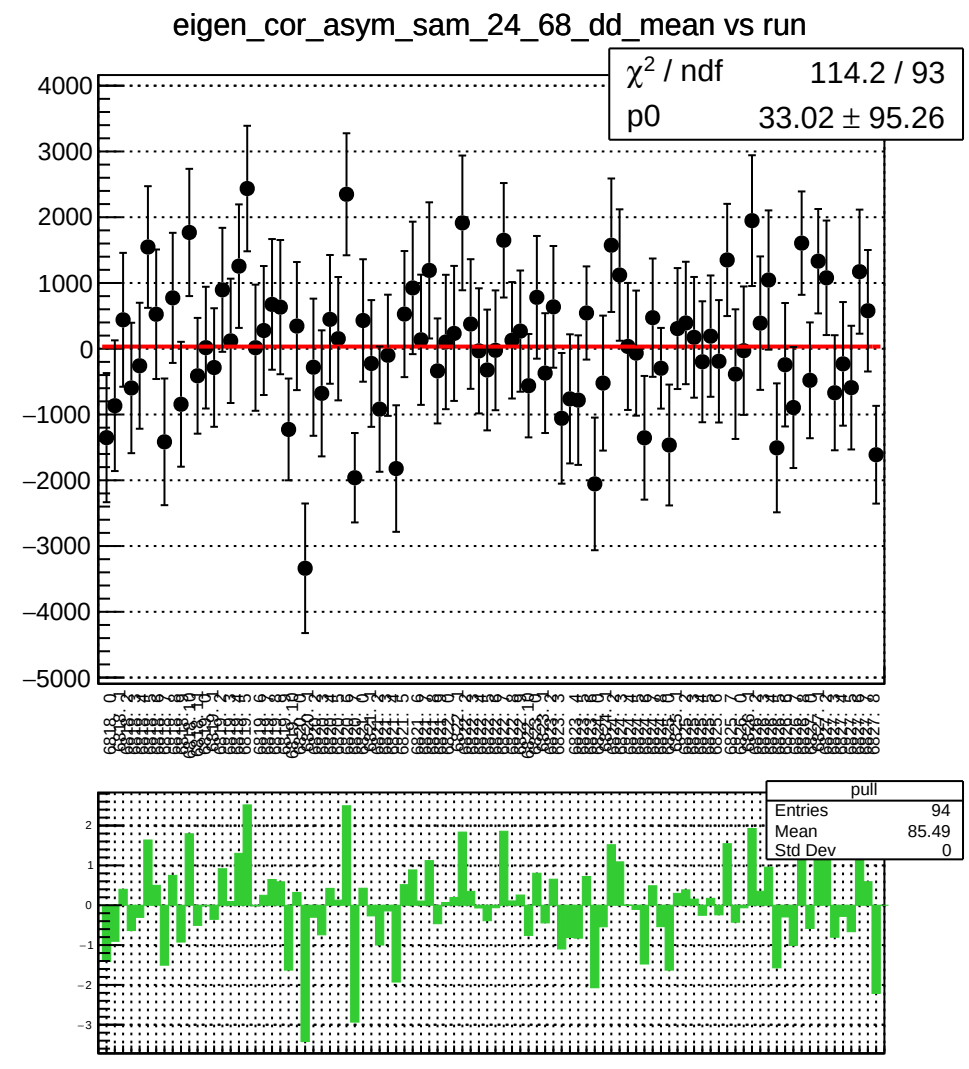

pull1D
Entries 94
Mean 0.01668
Std Dev 1.102

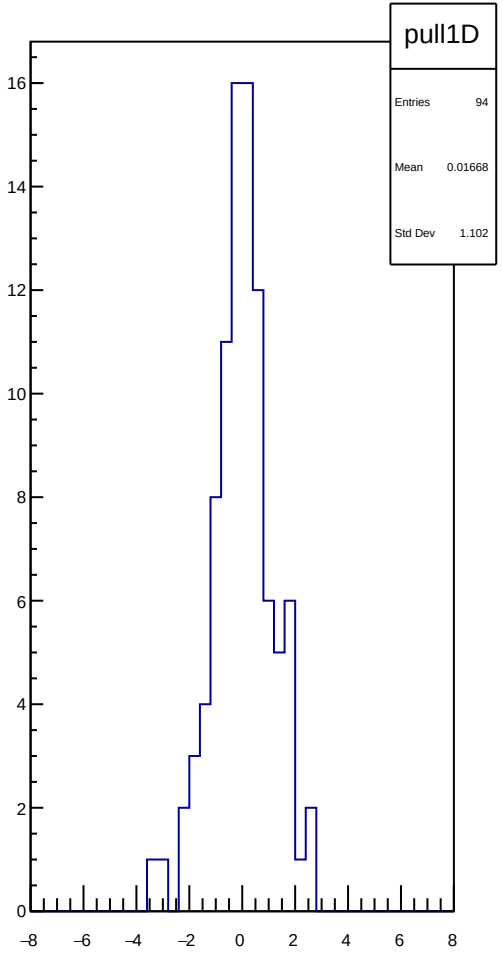

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4352 / 93
p0 90.14 ± 0.06736
100
95
90
85
80
75

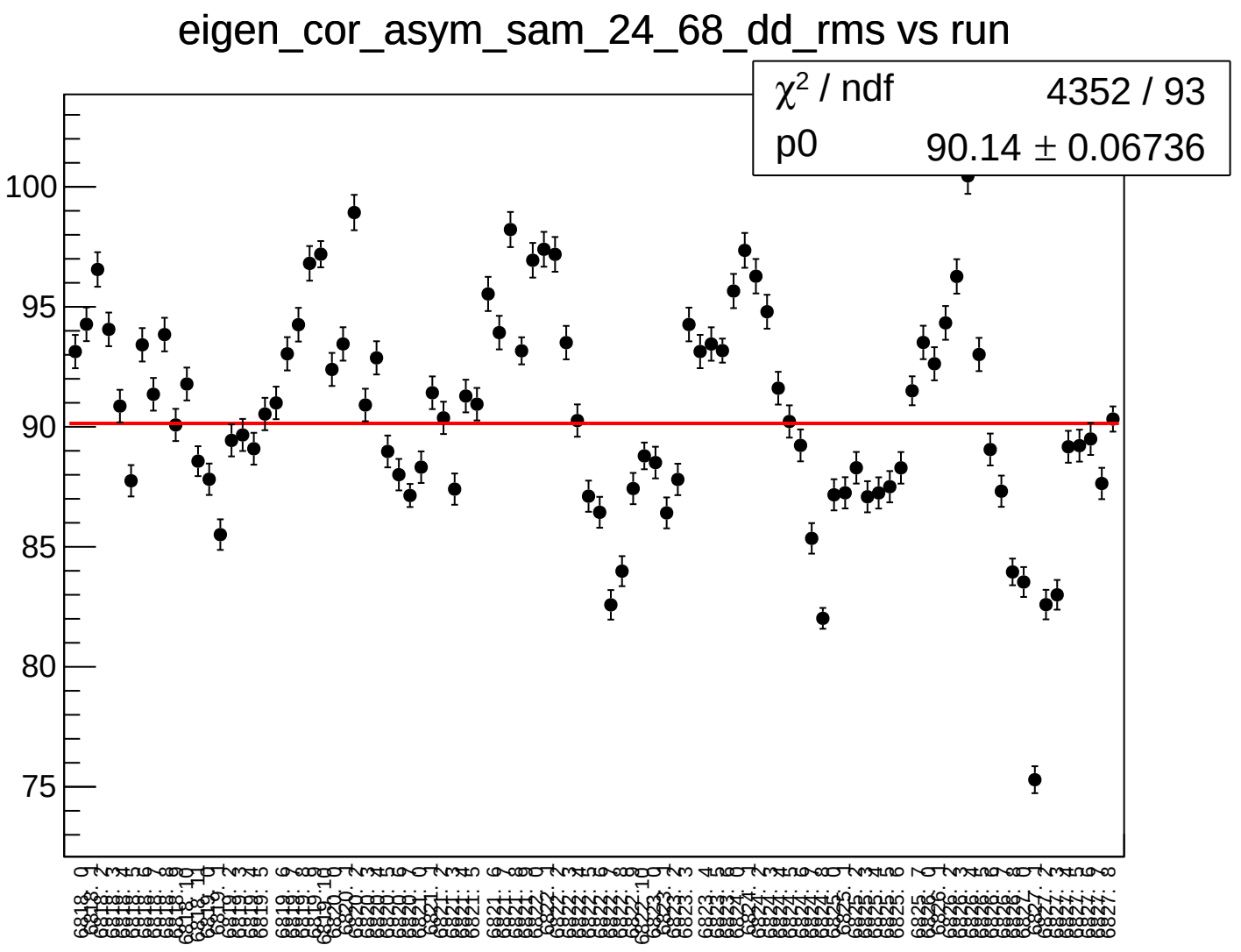

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 73.56 / 93
p0 −1630 ± 1080
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −232.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

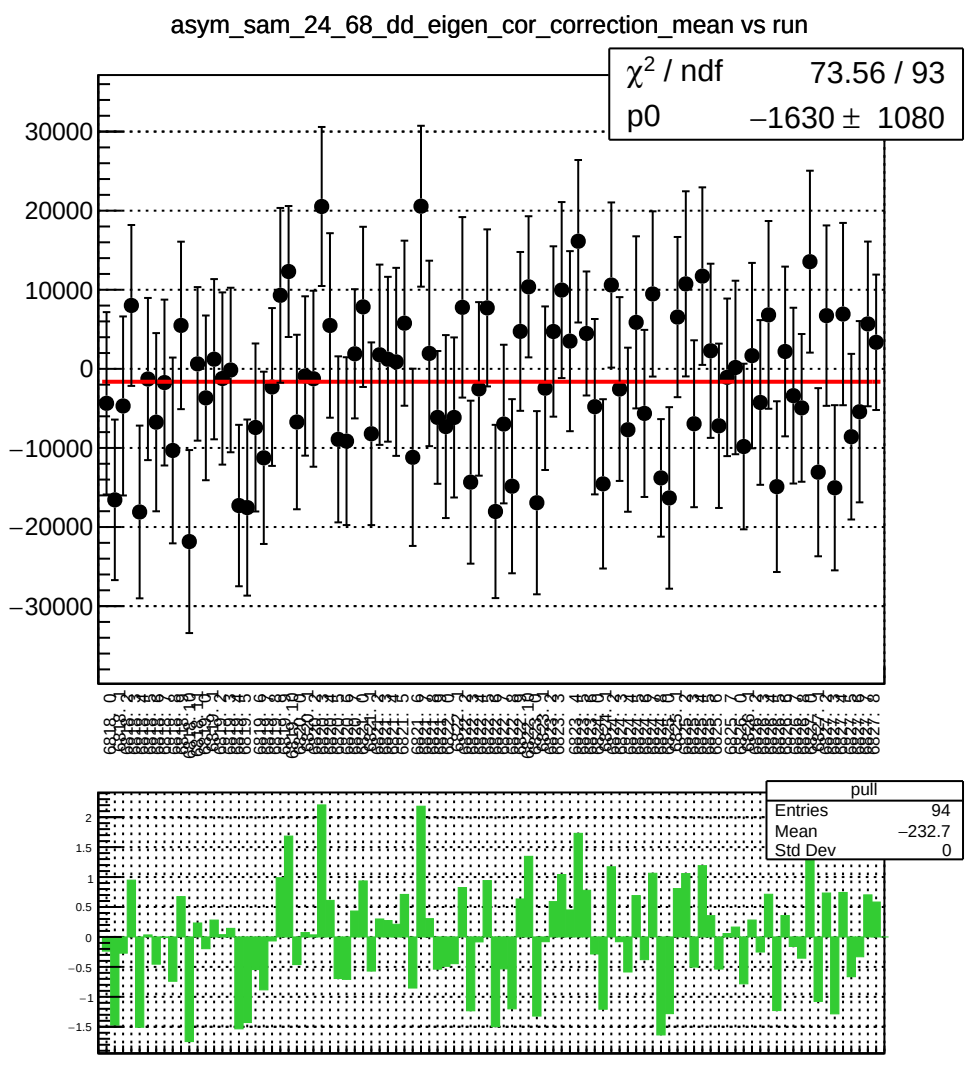

pull1D
Entries 94
Mean −0.008493
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

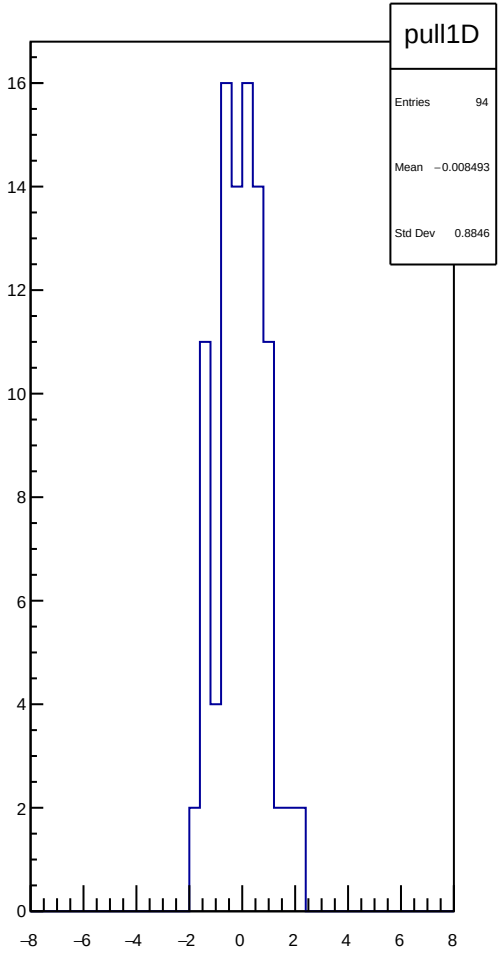

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4050 / 93
p0 1022 ± 0.7635
1150
1100
1050
1000
950

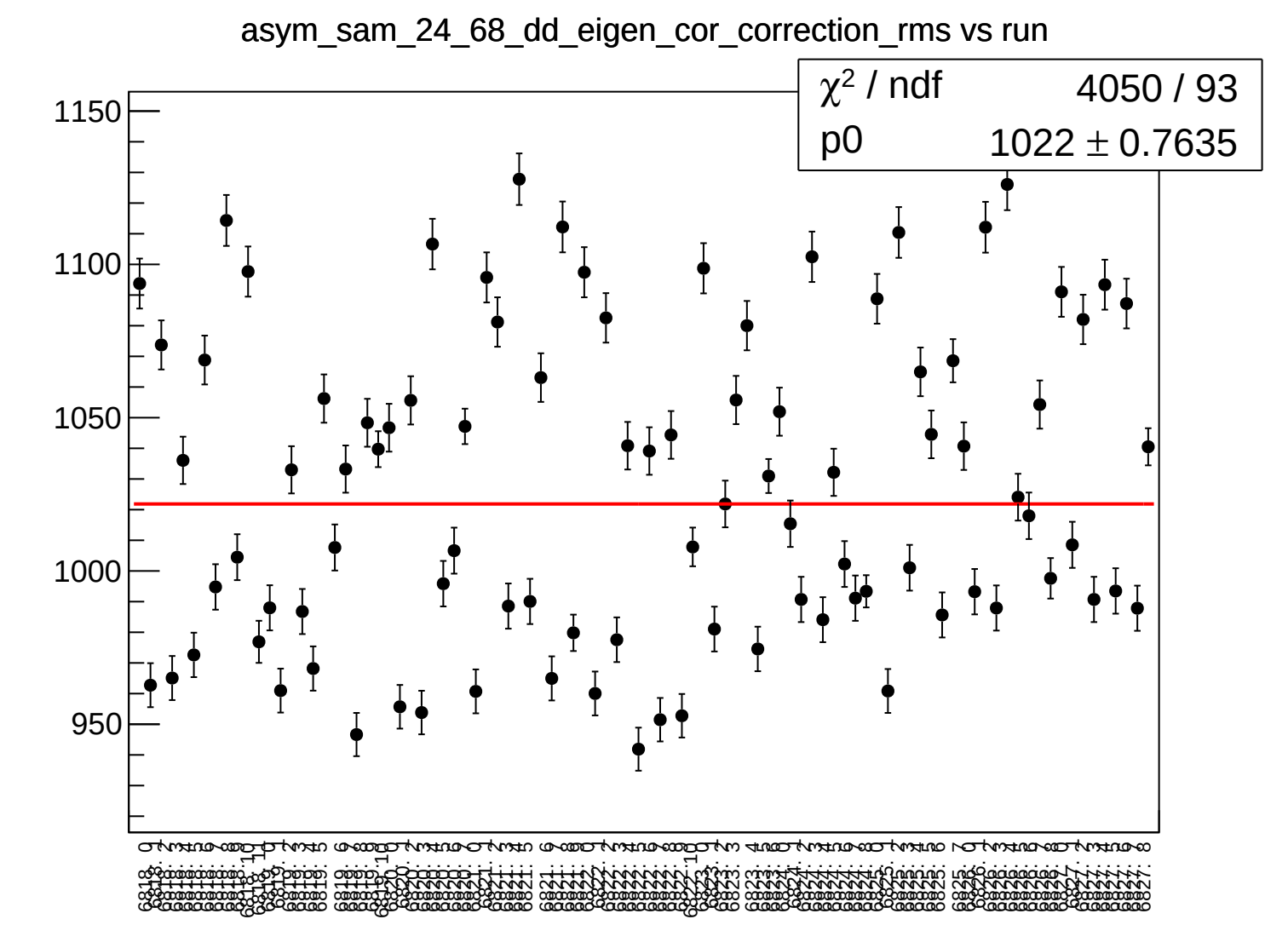

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 114.2 / 93
p0 33.02 ± 95.26
pull
Entries 94
Mean 85.49
Std Dev 0

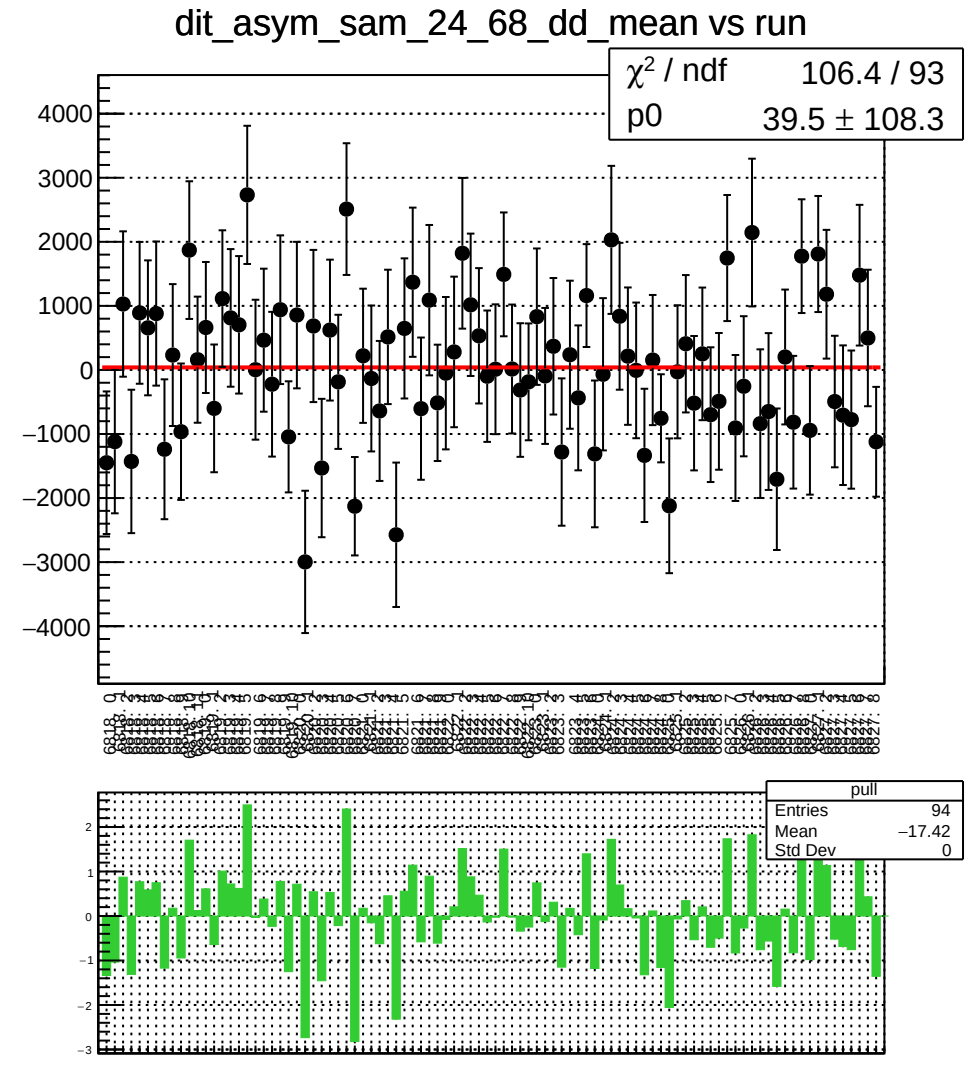

pull1D
Entries 94
Mean 0.01668
Std Dev 1.102

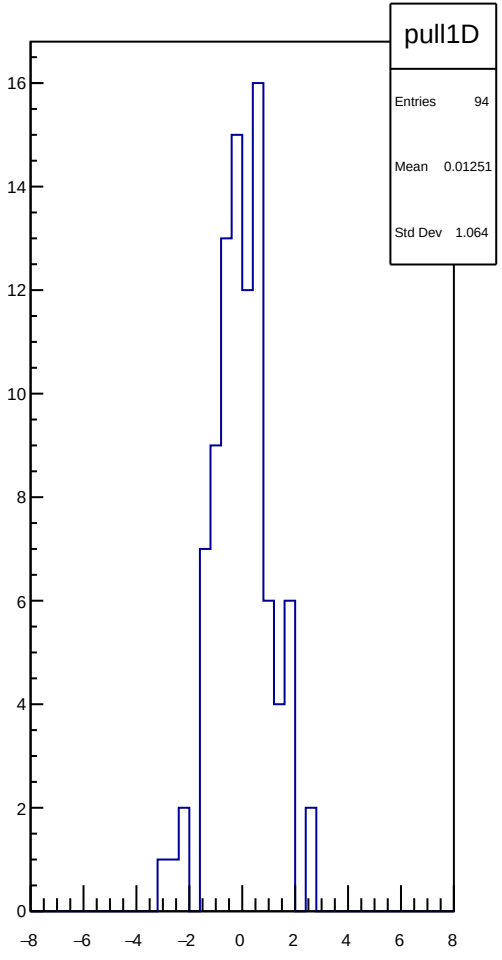

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 4352 / 93
p0 90.14 ± 0.06736
100
95
90
85
80
75

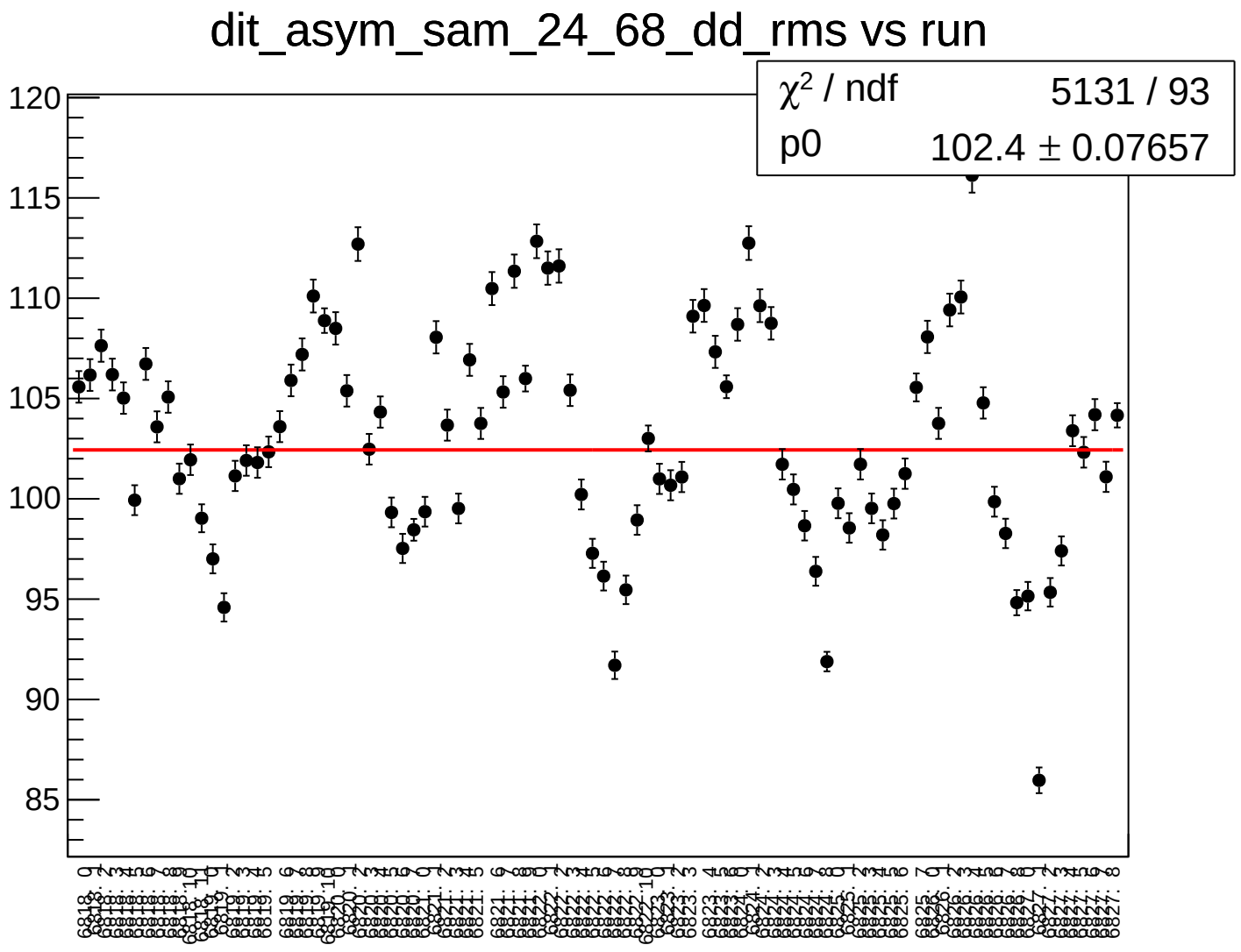

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.56 / 93
p0 −1630 ± 1080
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −232.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

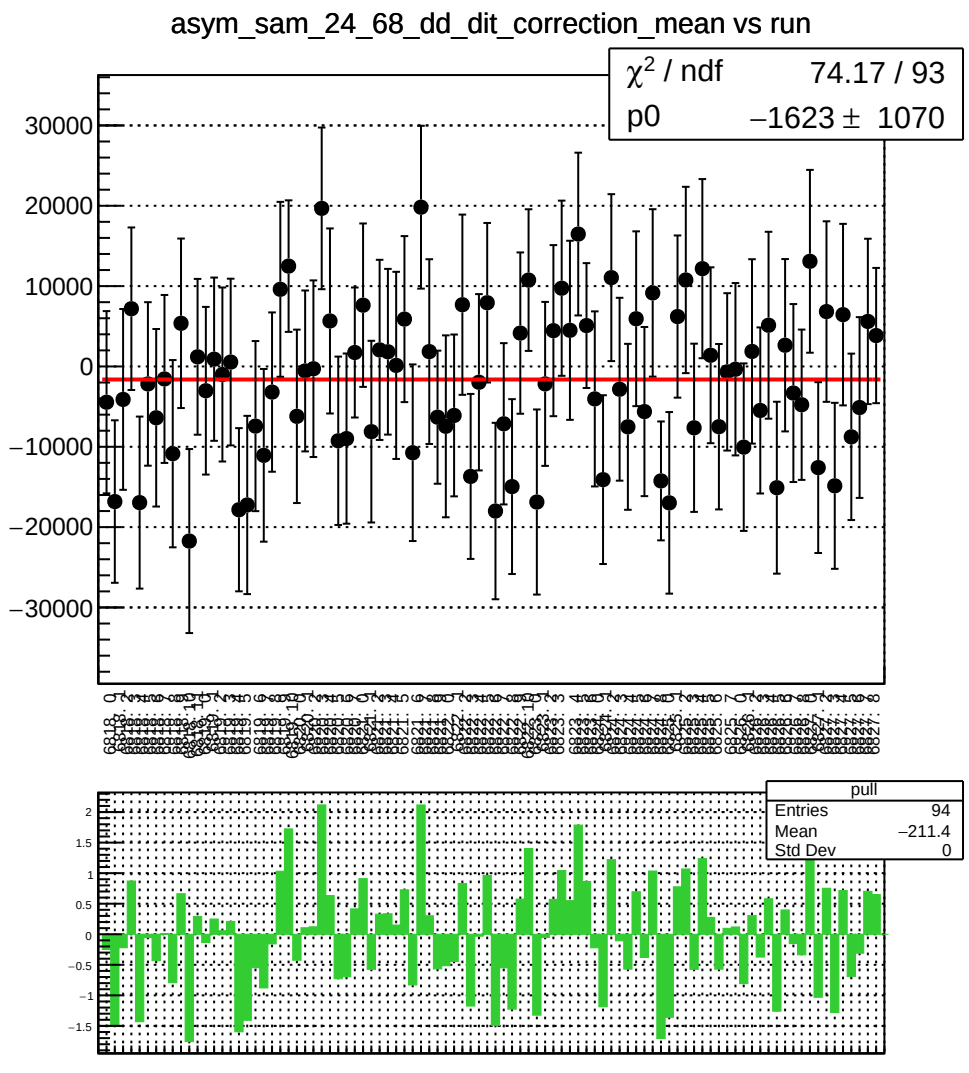

pull1D
Entries 94
Mean −0.008493
Std Dev 0.8846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

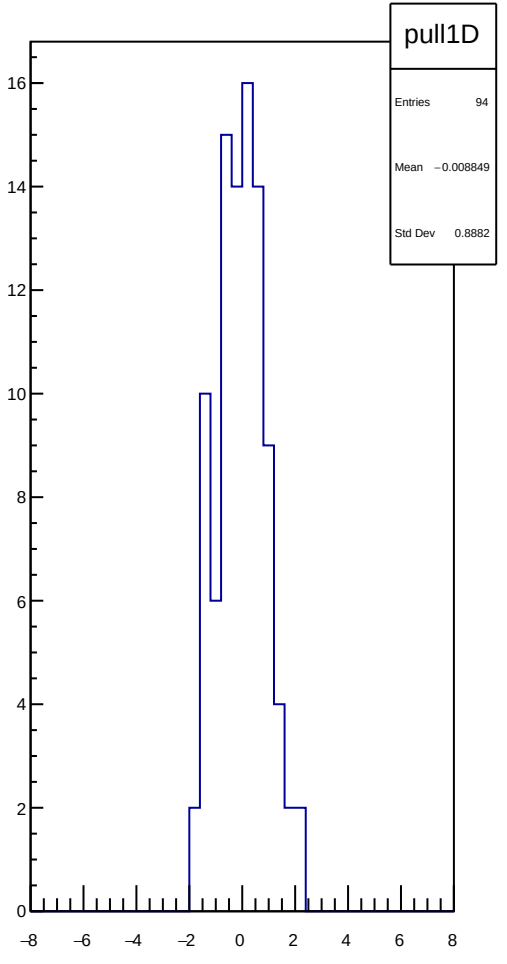

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4050 / 93
p0 1022 ± 0.7635
1150
1100
1050
1000
950

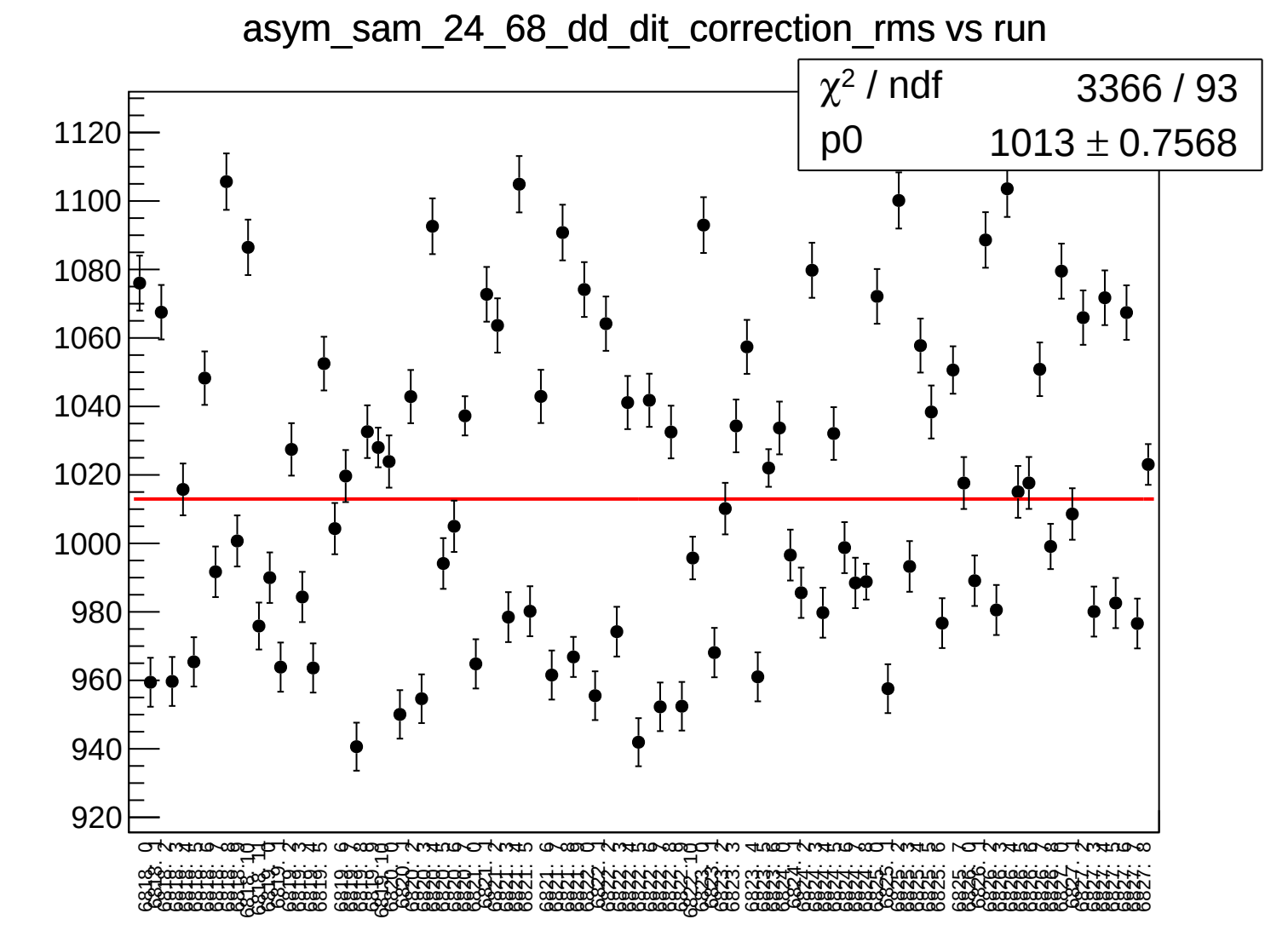

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.4 / 93
p0 39.5 ± 108.3
pull
Entries 94
Mean −17.42
Std Dev 0

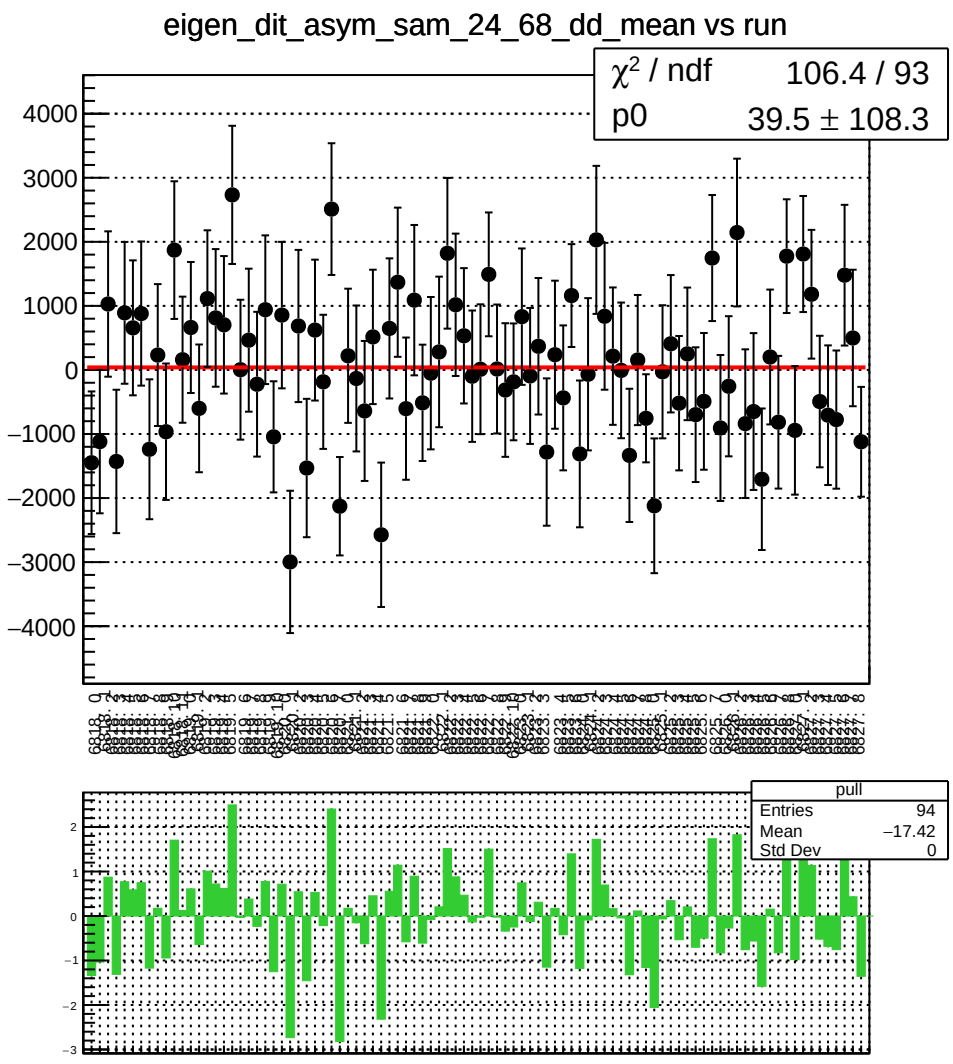

pull1D
Entries 94
Mean 0.01251
Std Dev 1.064

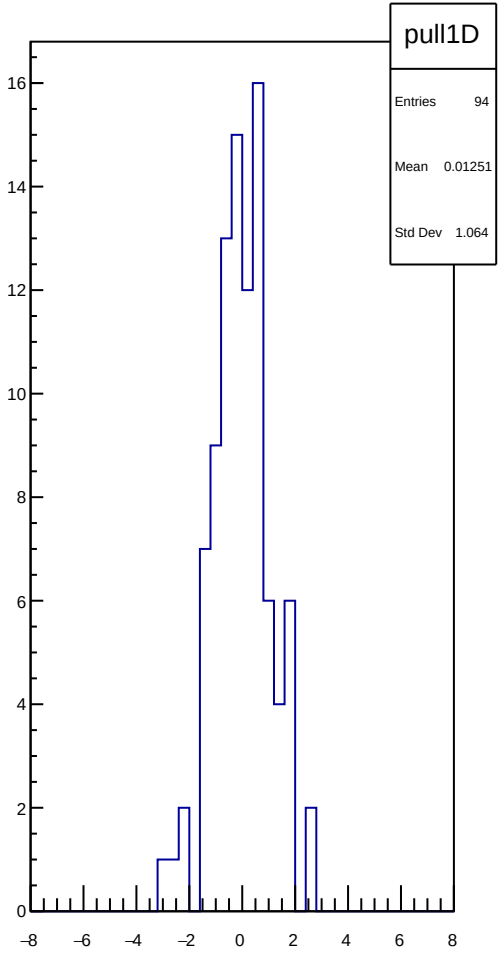

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 5131 / 93
p0 102.4 ± 0.07657
120
115
110
105
100
95
90
85

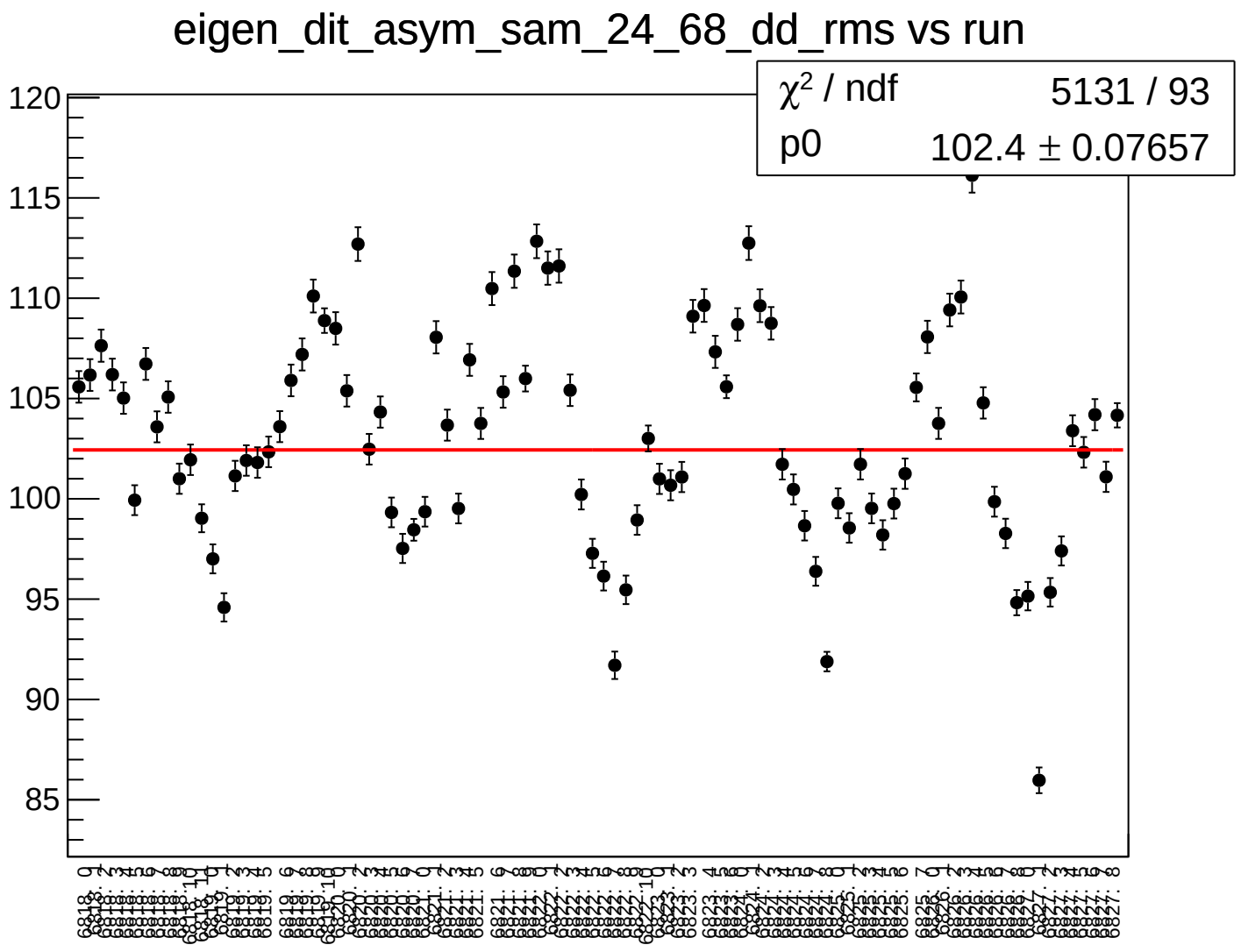

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 74.17 / 93
p0 −1623 ± 1070
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

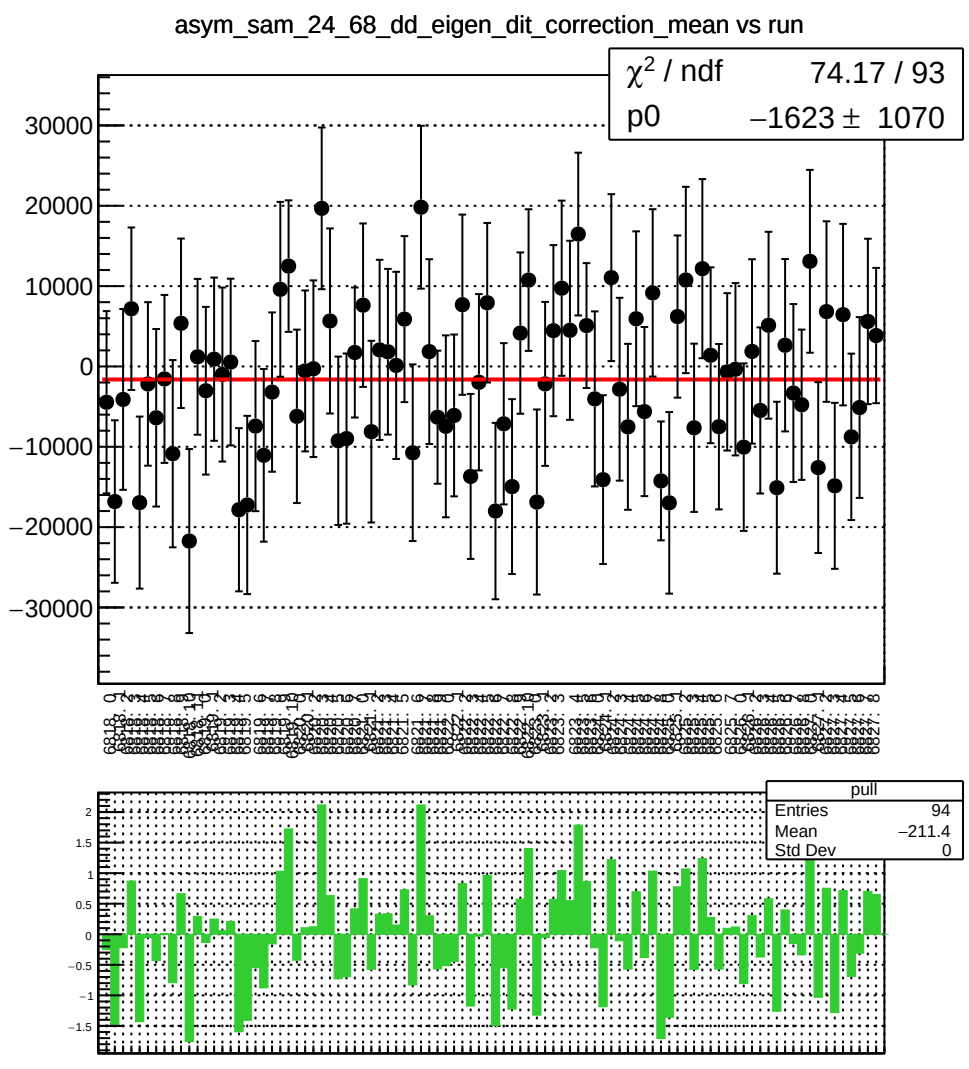

pull1D
Entries 94
Mean −0.008849
Std Dev 0.8882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

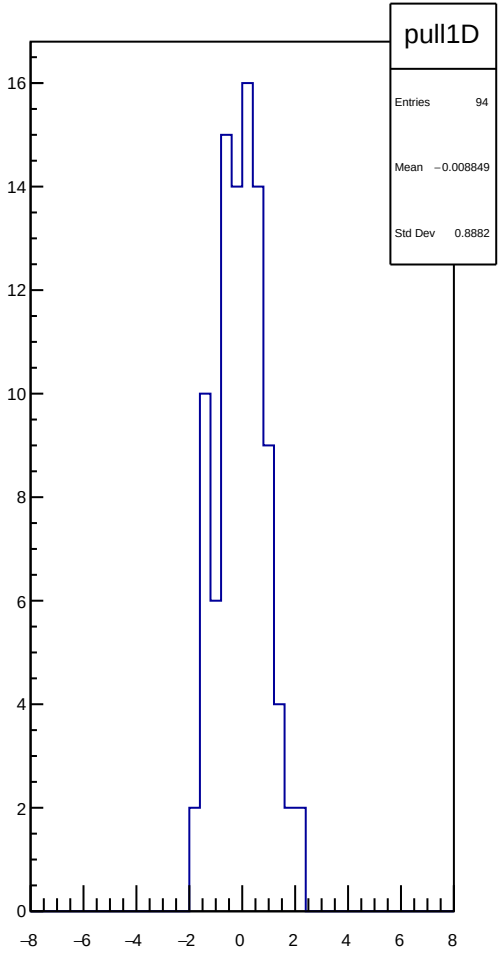

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 3366 / 93
p0 1013 ± 0.7568
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

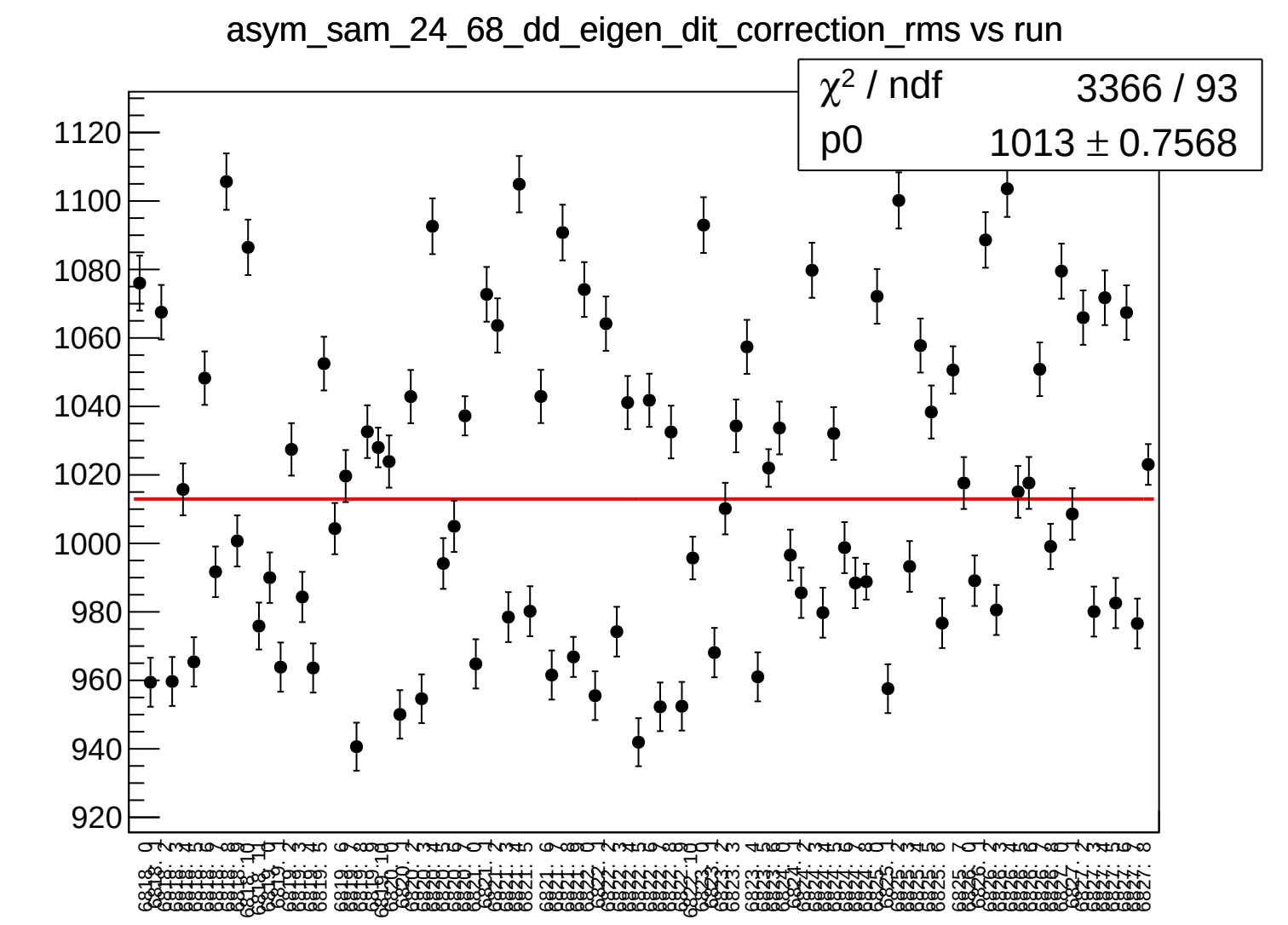

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 106.4 / 93
p0 39.5 ± 108.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean −17.42
Std Dev 0
2
1
0
−1
−2
−3

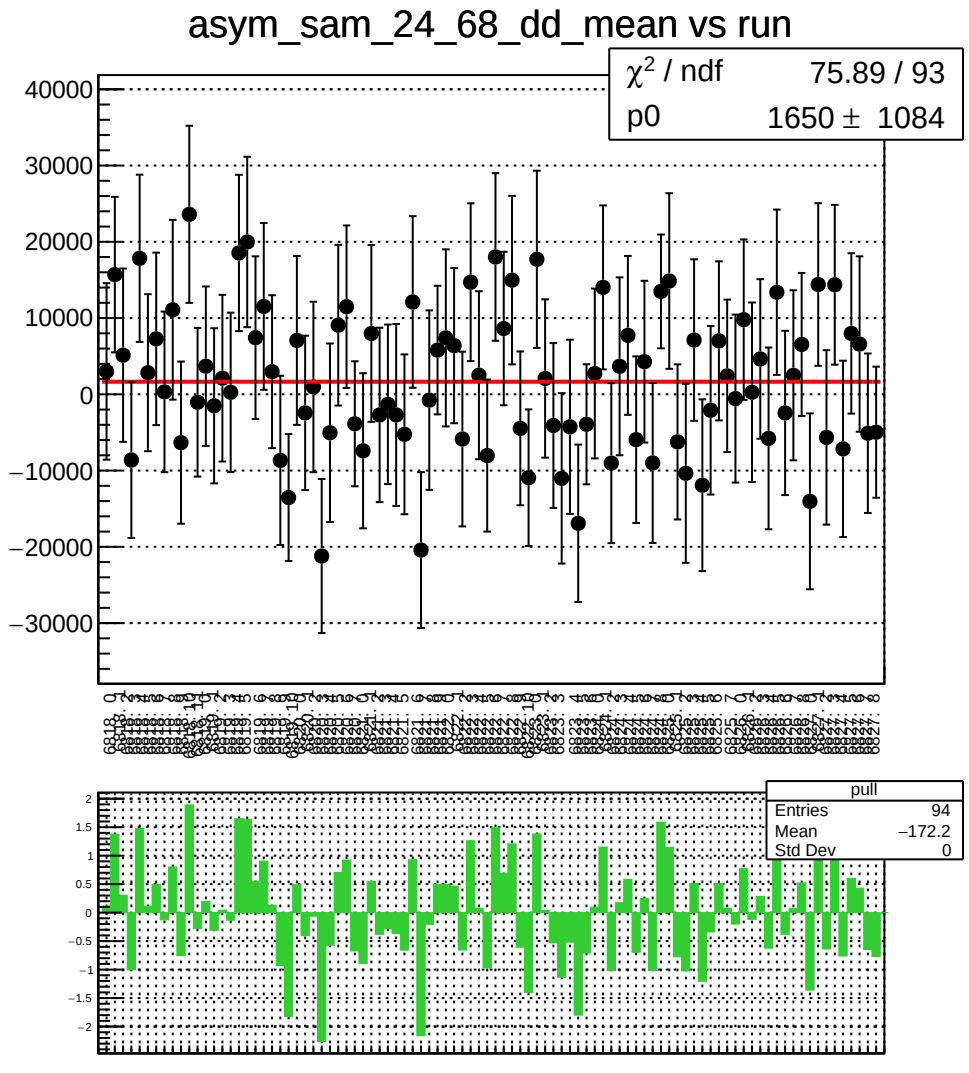

pull1D
Entries 94
Mean 0.01251
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

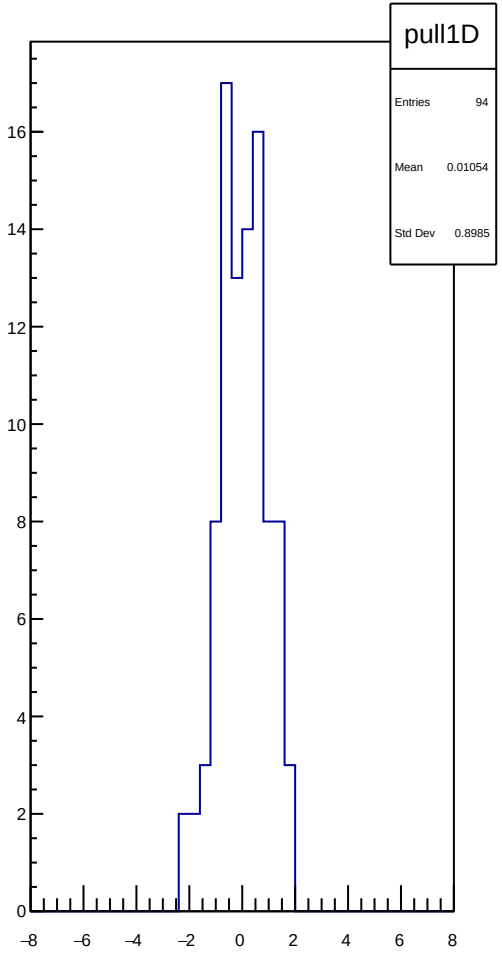

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 5131 / 93
p0 102.4 ± 0.07657
120
115
110
105
100
95
90
85

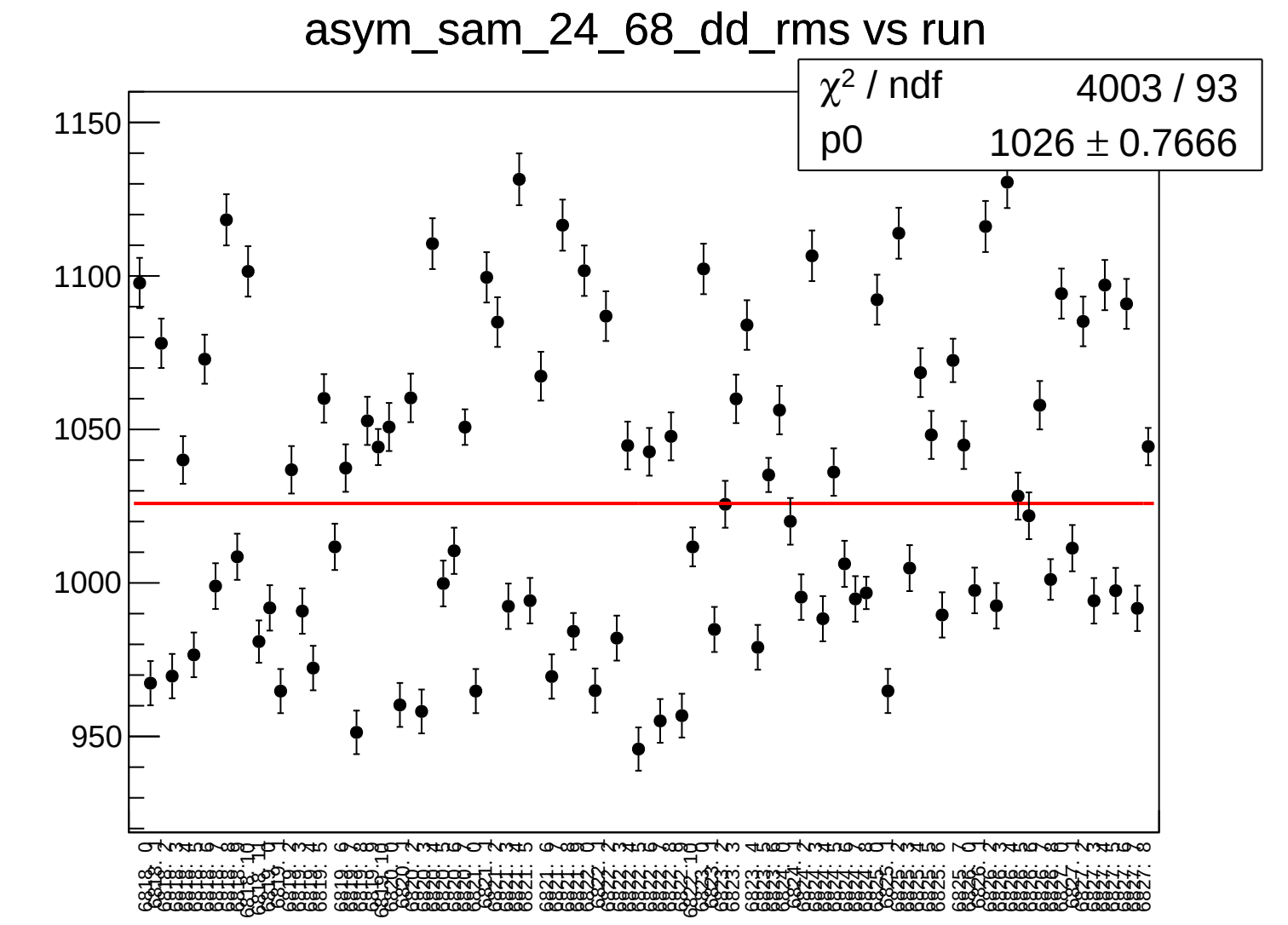

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.17 / 93
p0 −1623 ± 1070
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −211.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

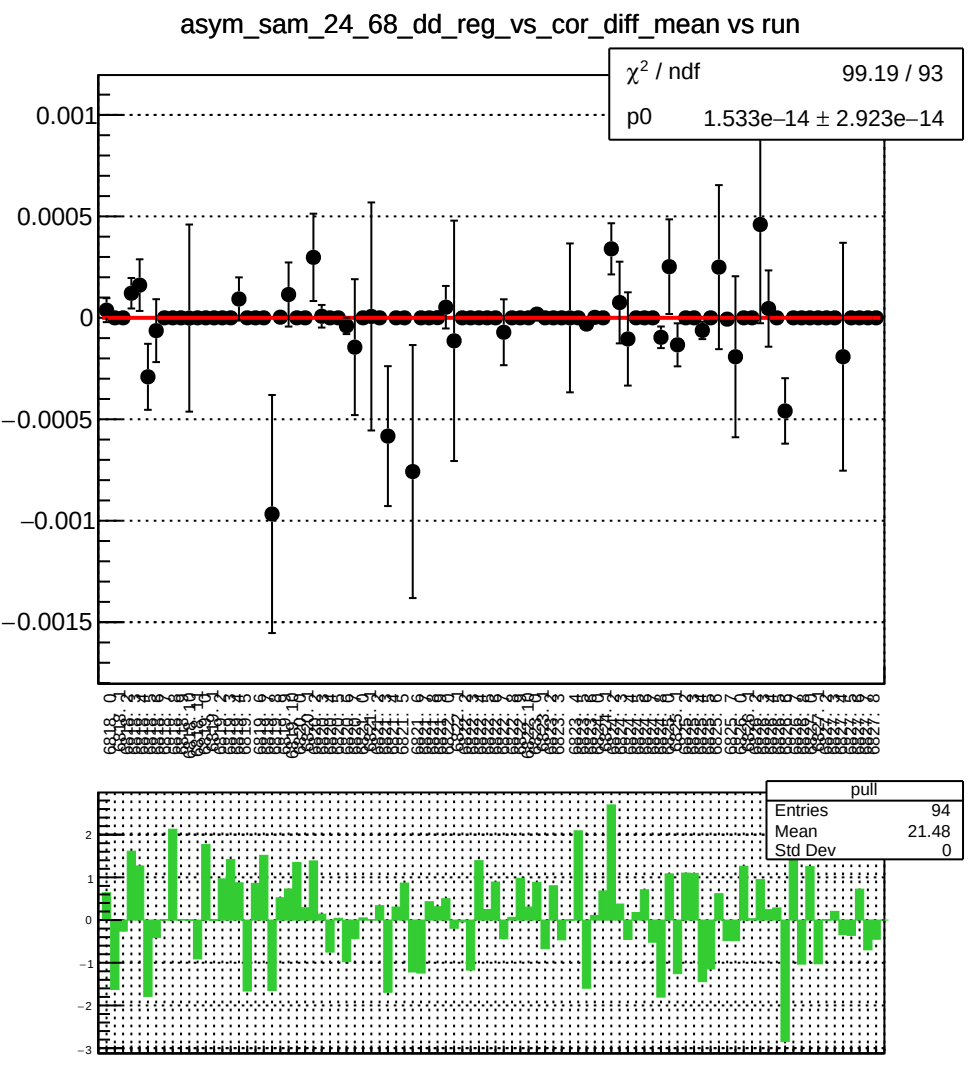

pull1D
Entries 94
Mean −0.008849
Std Dev 0.8882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

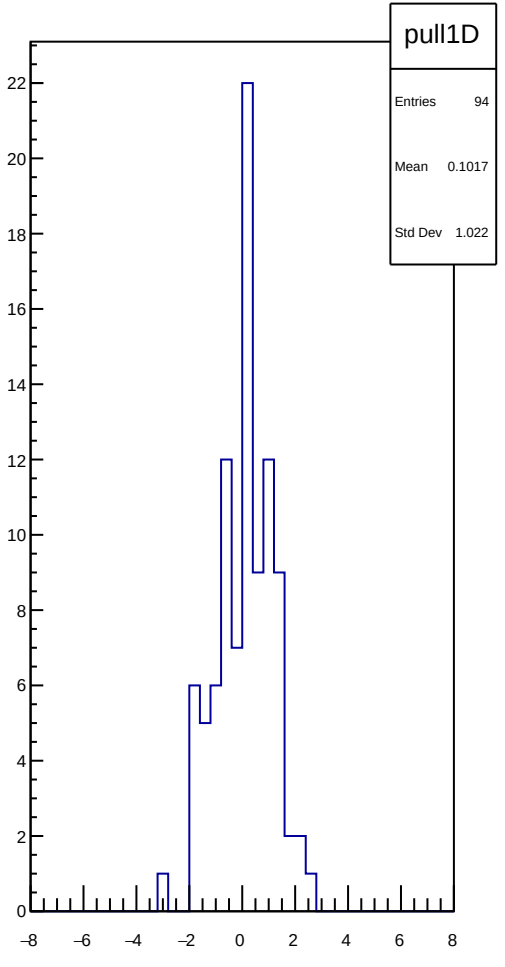

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 3366 / 93
p0 1013 ± 0.7568
1120
1100
1080
1060
1040
1020
1000
980
960
940
920

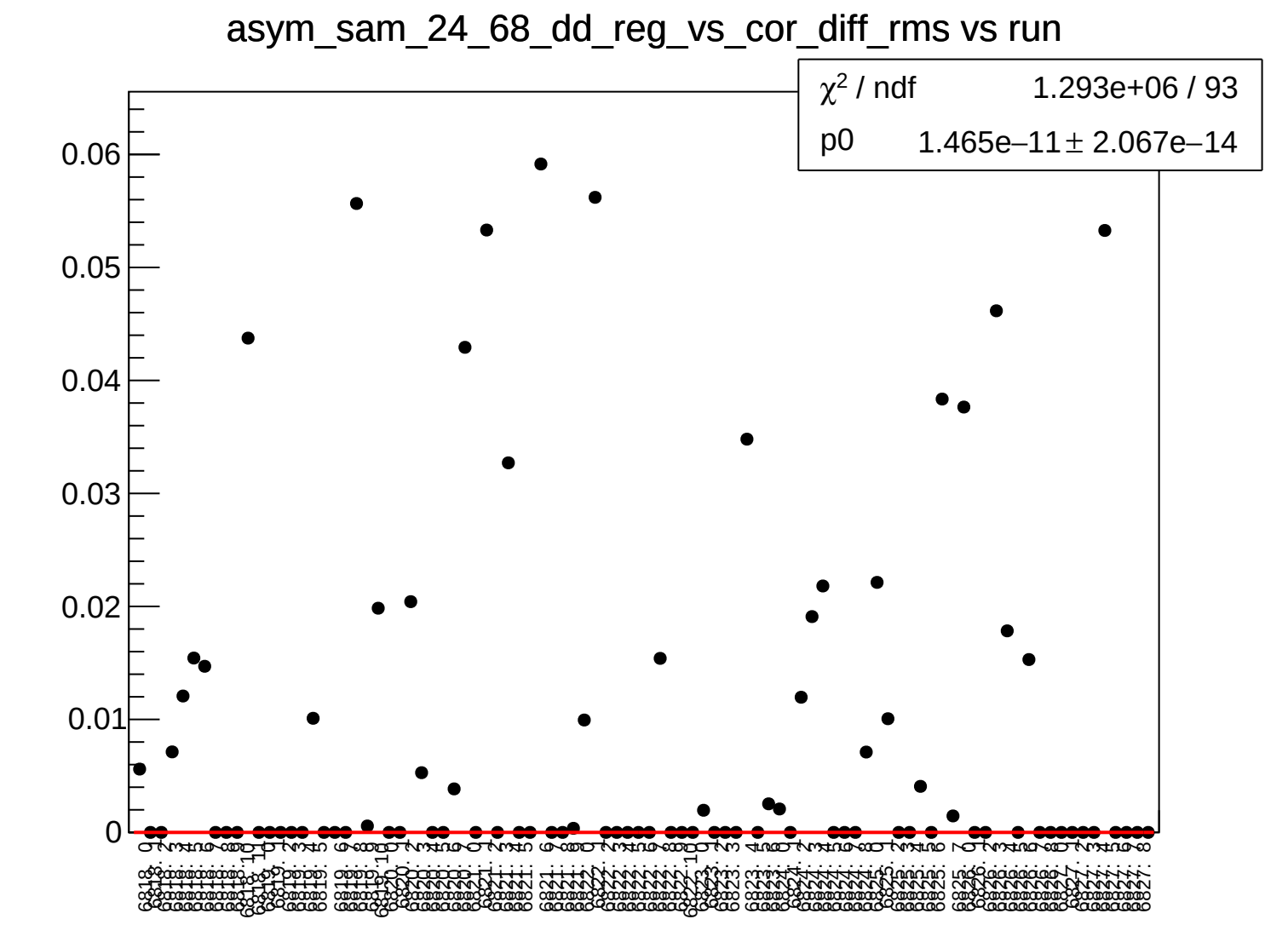

asym_sam_24_68_dd_mean vs run
χ^2 / ndf 75.89 / 93
p0 1650 ± 1084
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −172.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

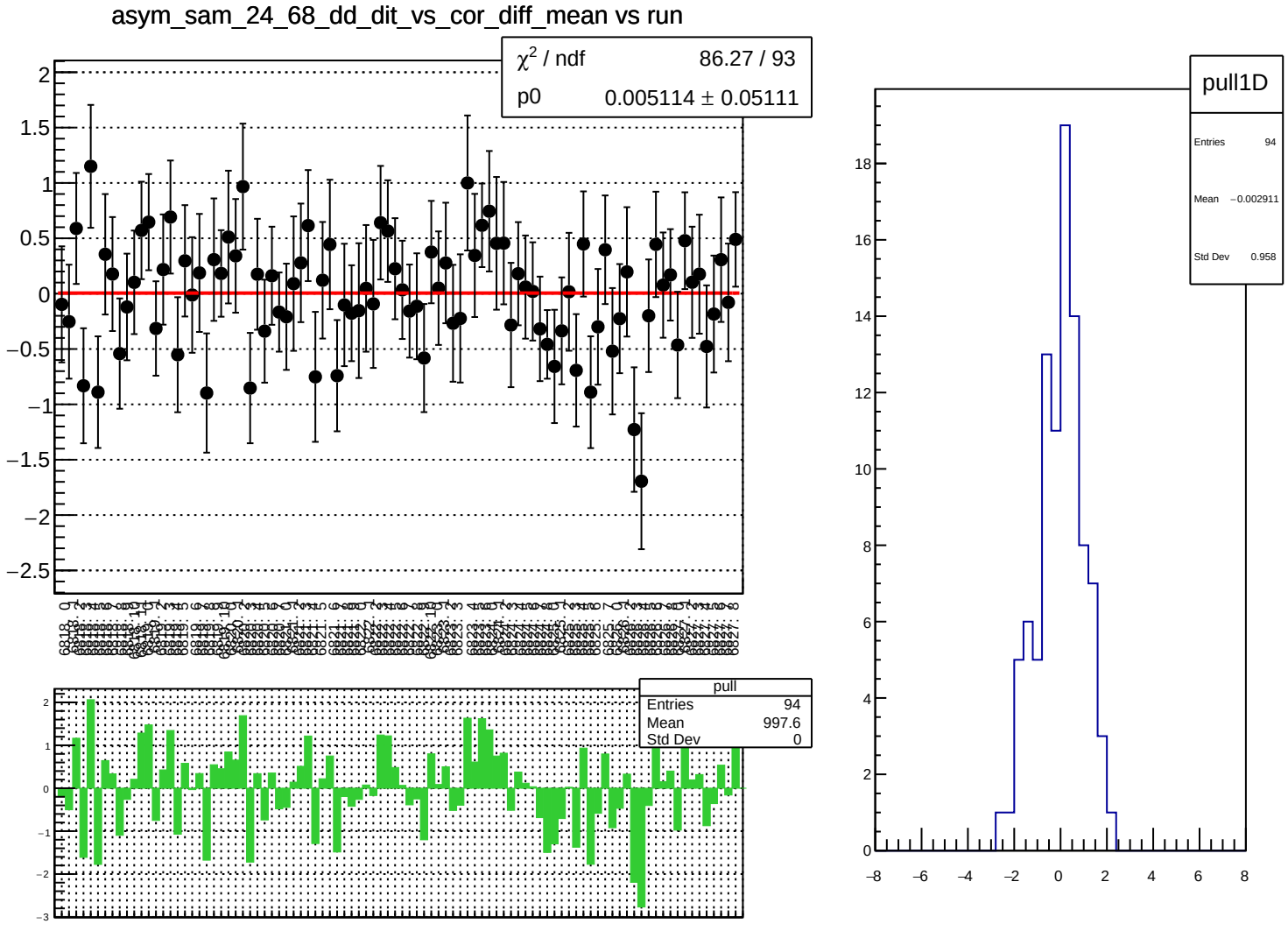

pull1D
Entries 94
Mean 0.01054
Std Dev 0.8985
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

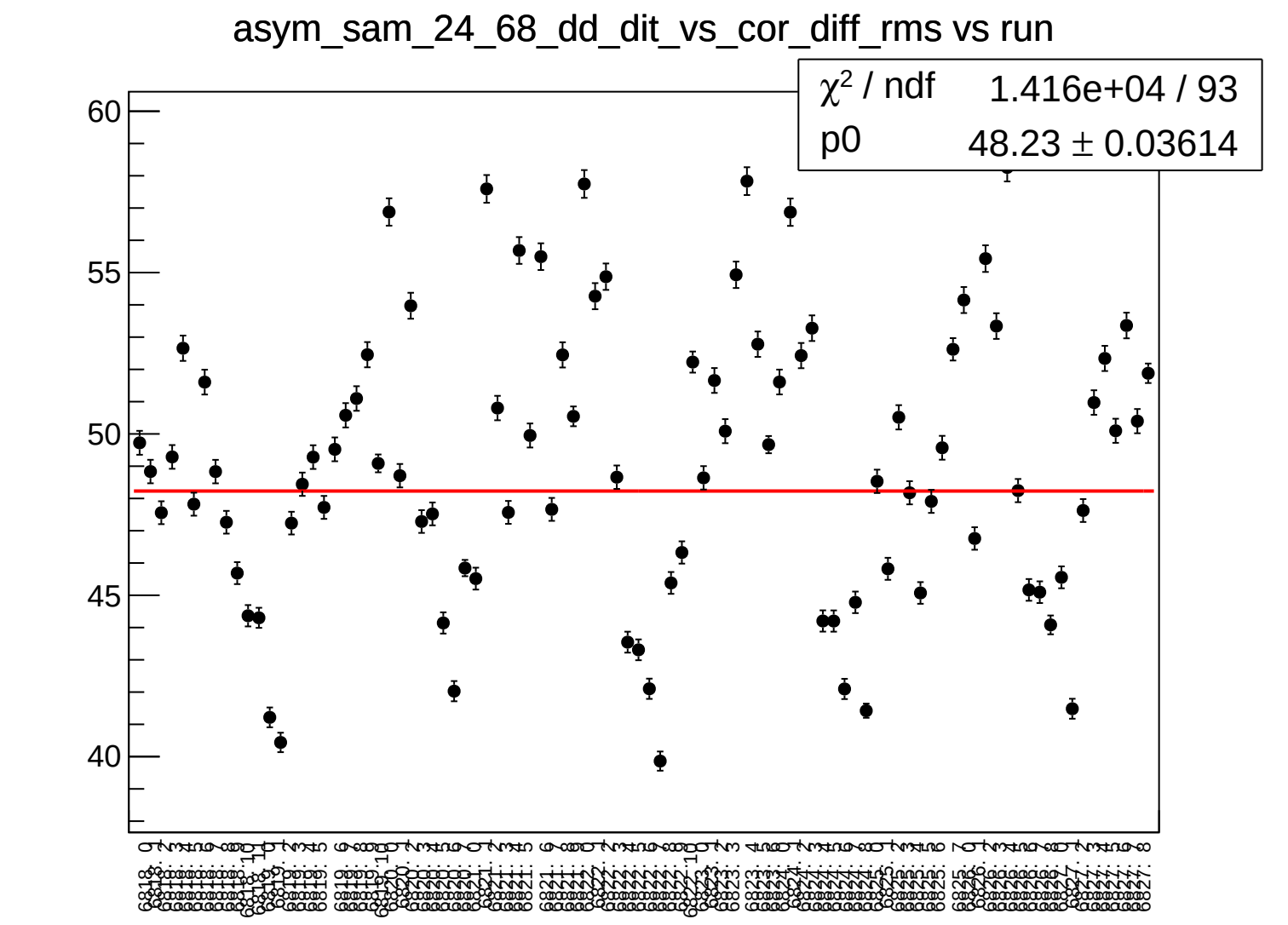

asym_sam_24_68_dd_rms vs run
χ² / ndf 4003 / 93
p0 1026 ± 0.7666
1150
1100
1050
1000
950

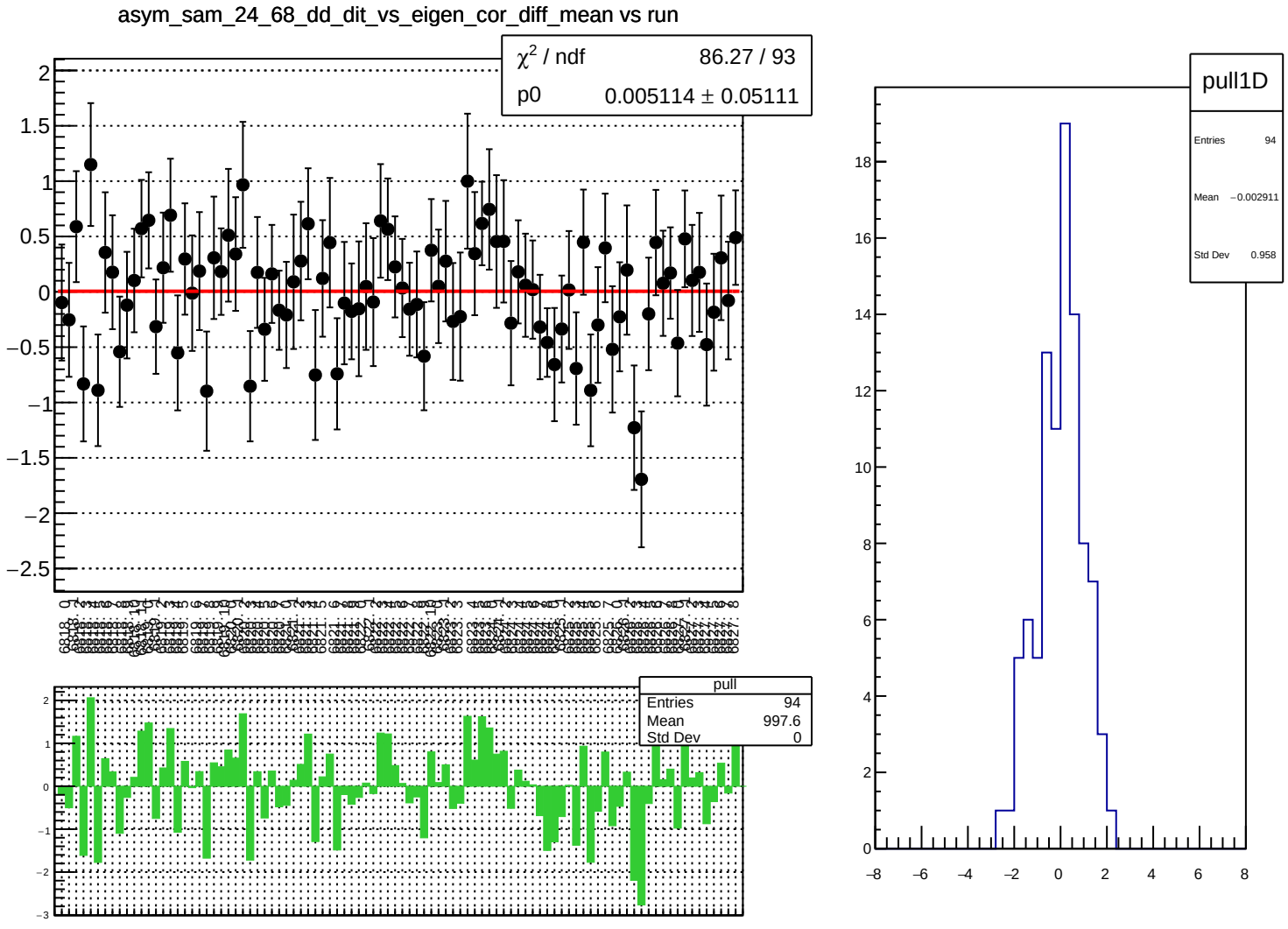

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 99.19 / 93
p0 1.533e−14 ± 2.923e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 94
Mean 21.48
Std Dev 0
2
1
0
−1
−2
−3

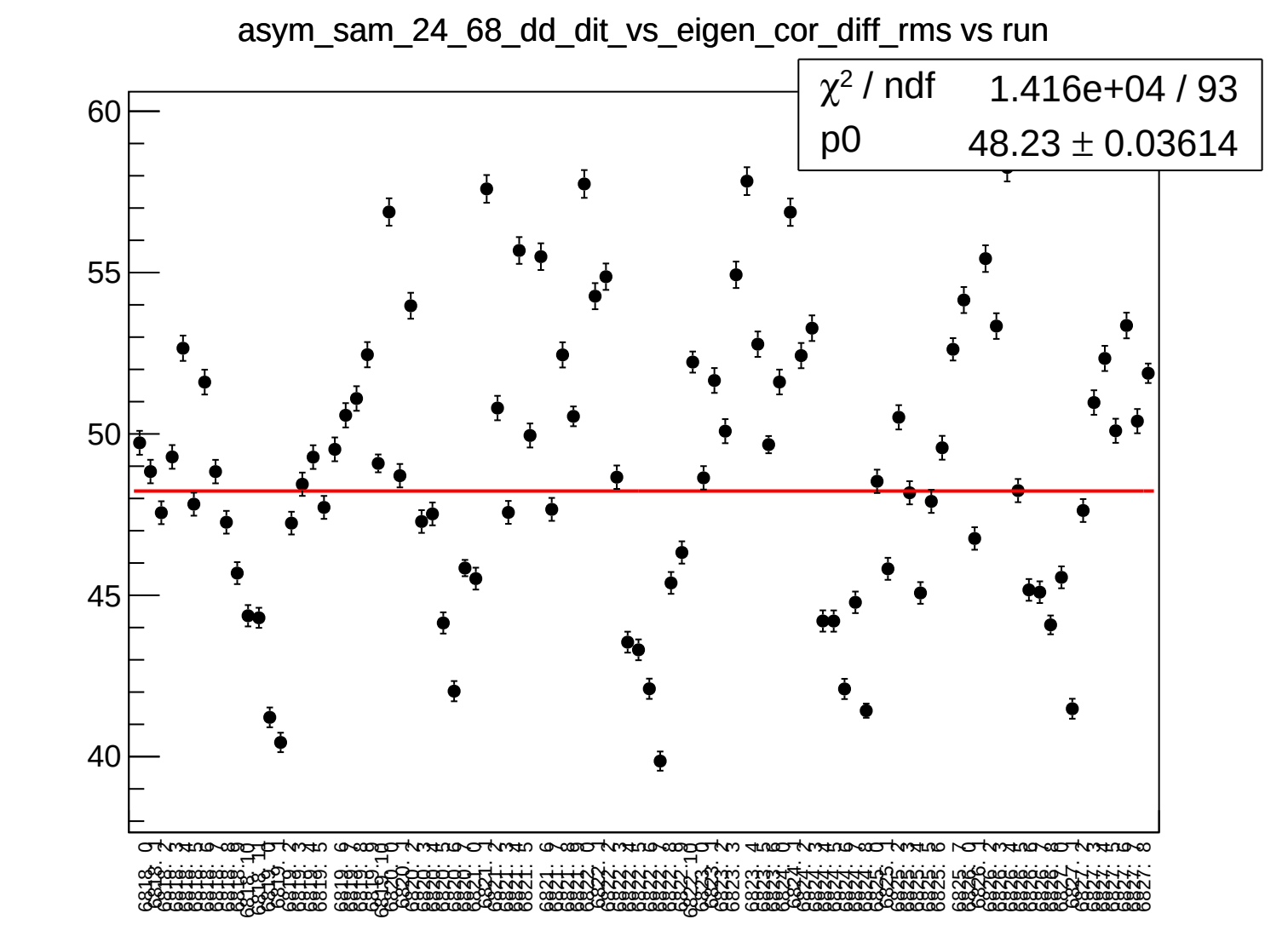

pull1D
Entries 94
Mean 0.1017
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

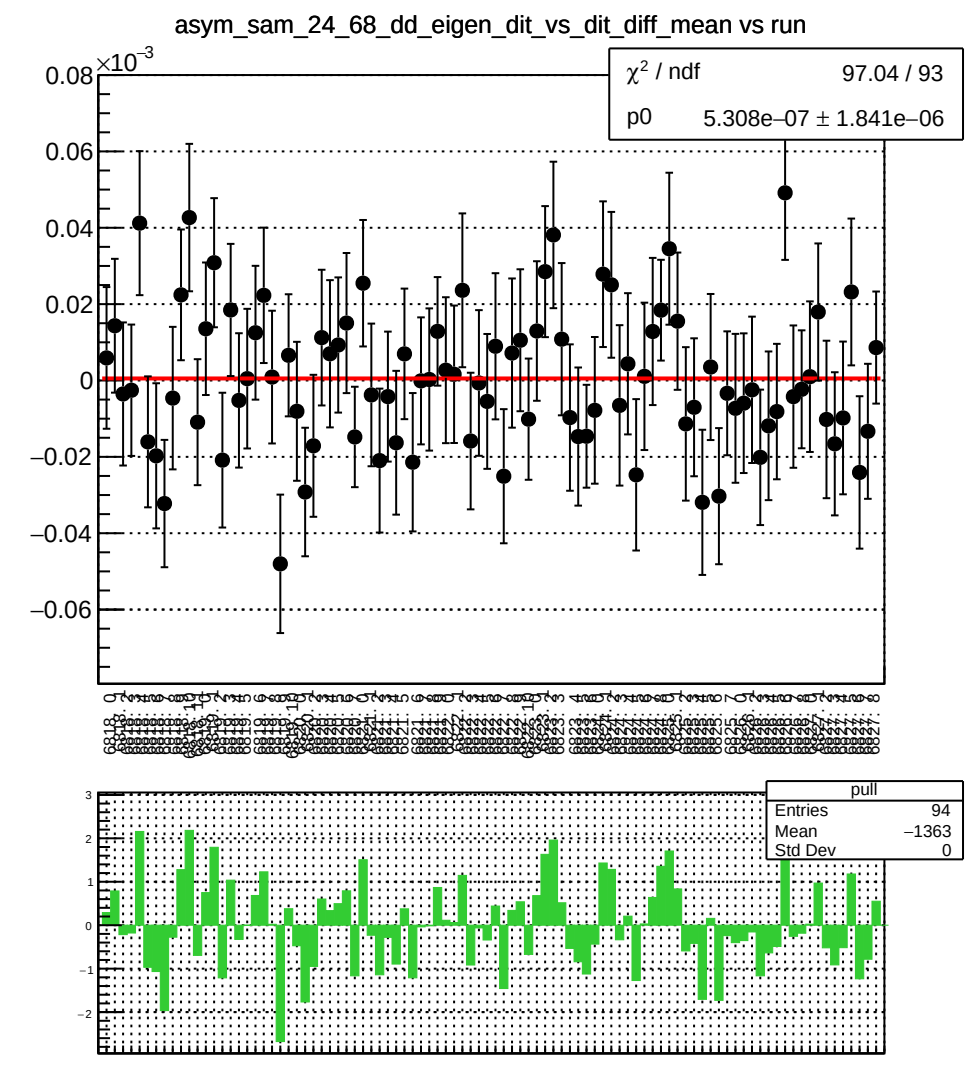

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.293e+06 / 93
p0 1.465e−11 ± 2.067e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

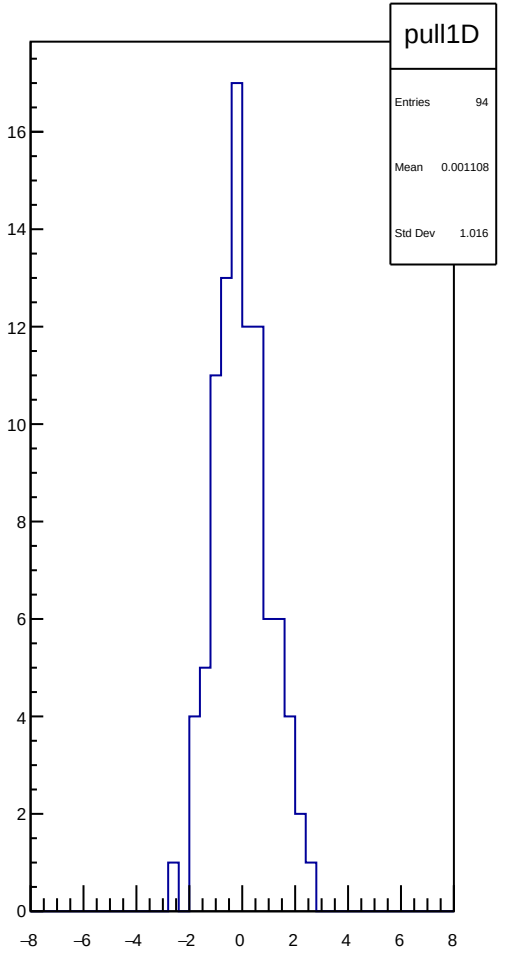

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.27 / 93
p0 0.005114 ± 0.05111
pull
Entries 94
Mean 997.6
Std Dev 0
pull1D
Entries 94
Mean −0.002911
Std Dev 0.958

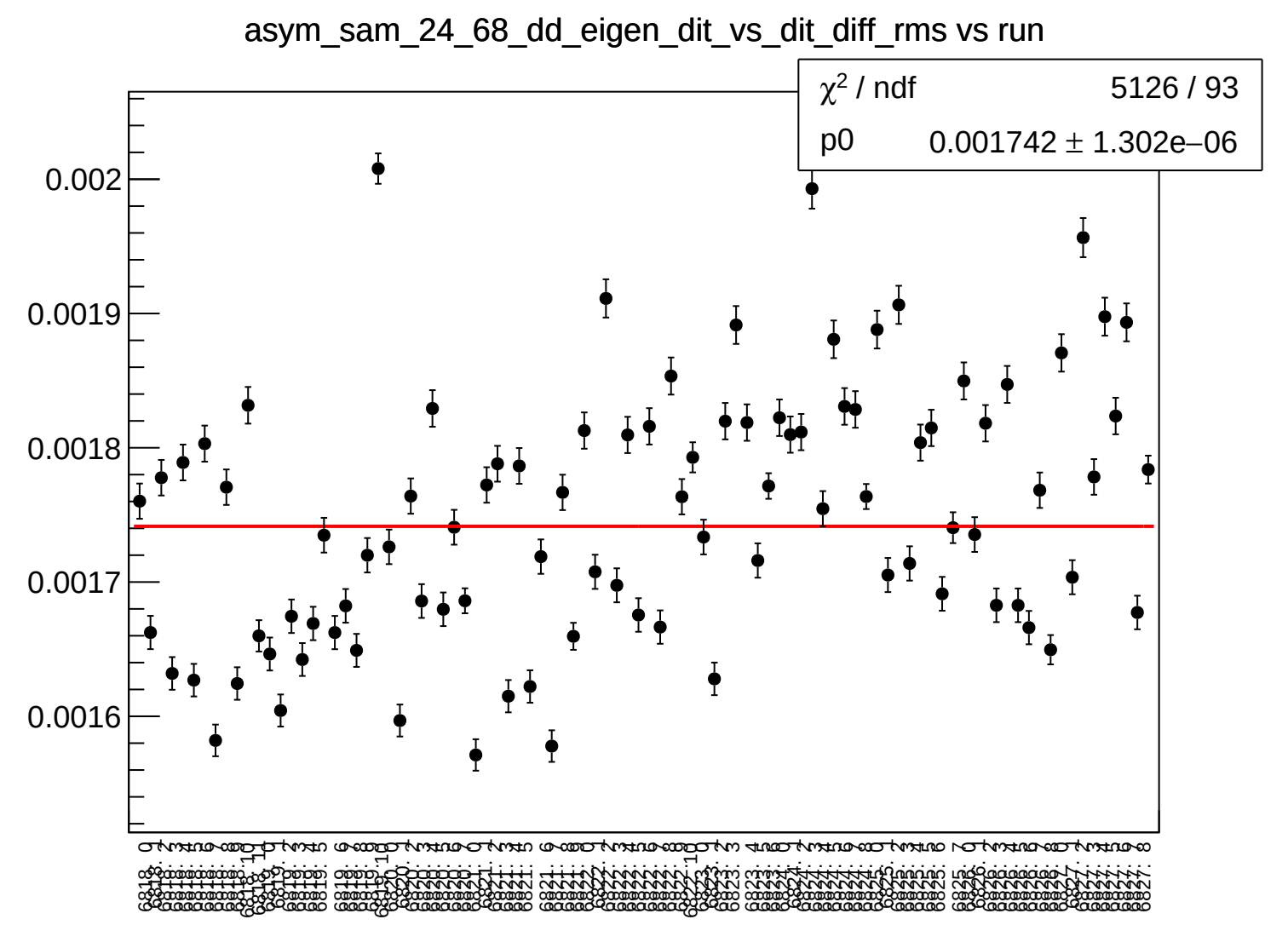

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.416e+04 / 93
p0 48.23 ± 0.03614
60
55
50
45
40

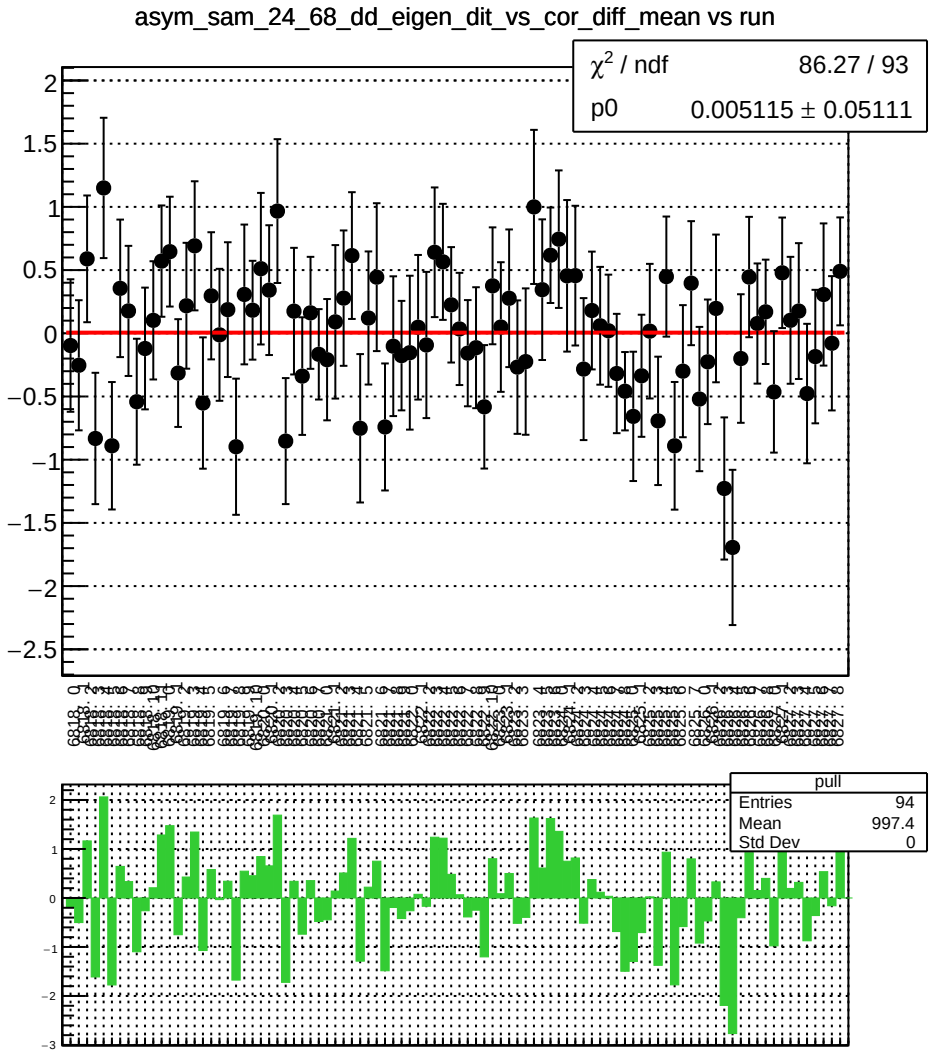

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.27 / 93
p0 0.005114 ± 0.05111
pull
Entries 94
Mean 997.6
Std Dev 0
pull1D
Entries 94
Mean −0.002911
Std Dev 0.958

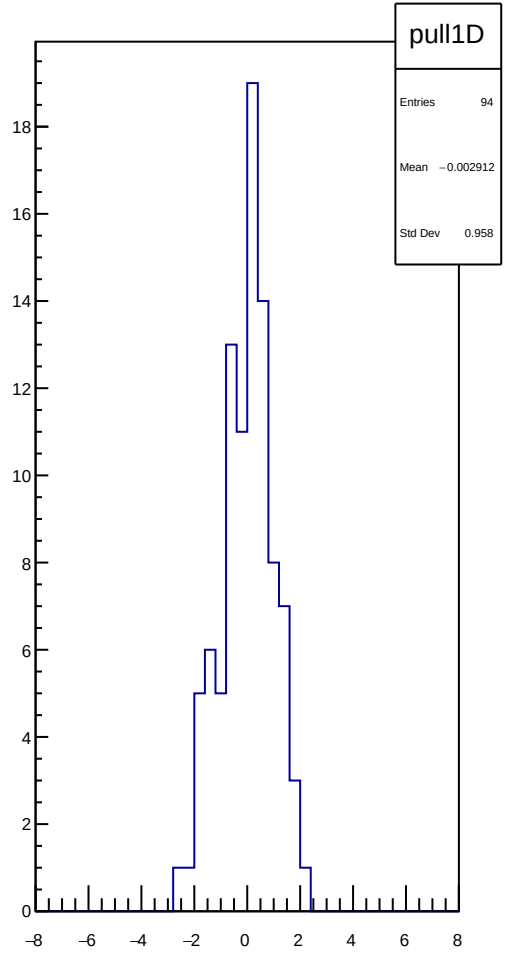

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.416e+04 / 93
p0 48.23 ± 0.03614
60
55
50
45
40

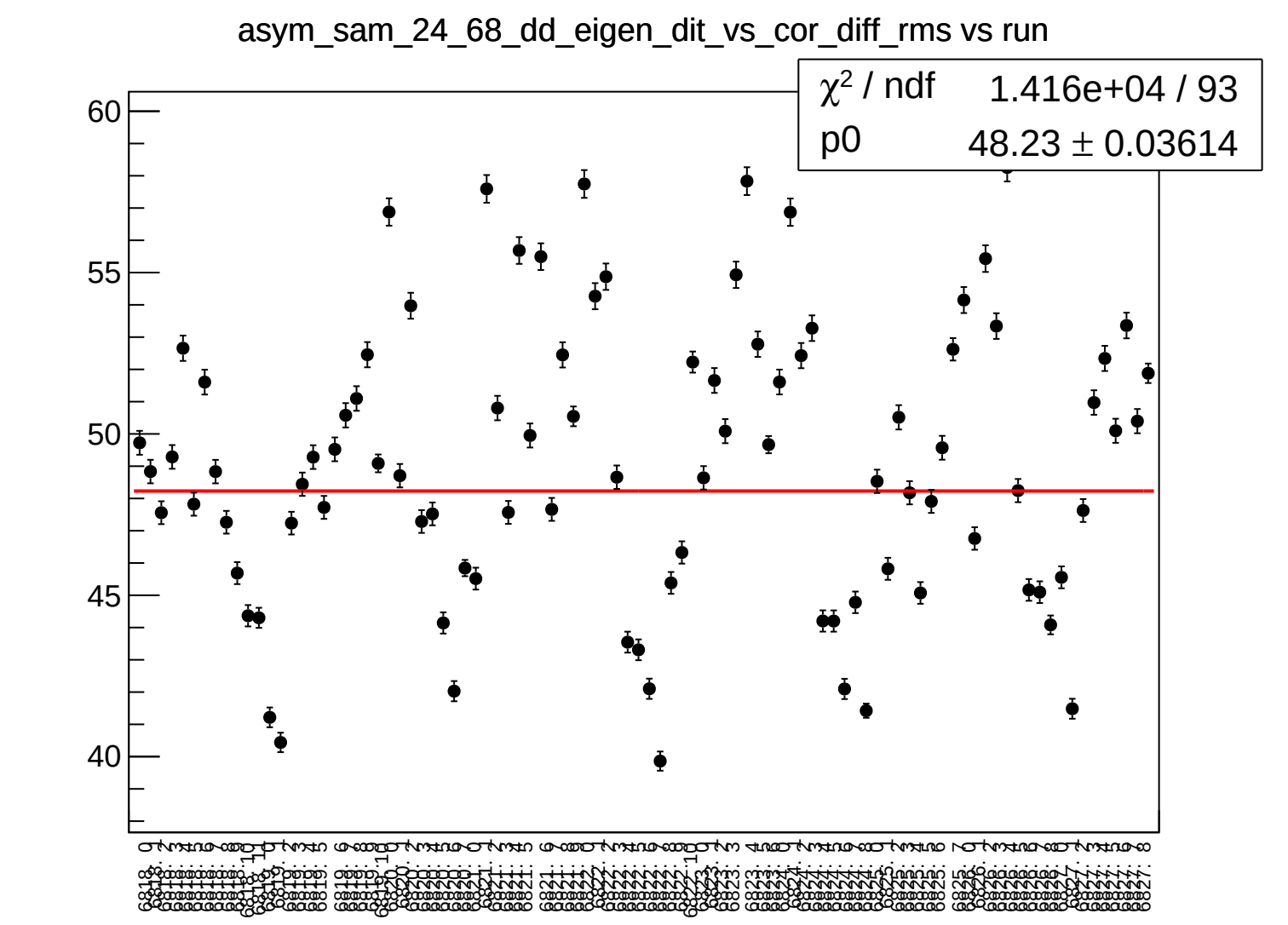

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 97.04 / 93
p0 5.308e−07 ± 1.841e−06
×10⁻³
pull
Entries 94
Mean −1363
Std Dev 0


pull1D
Entries 94
Mean 0.001108
Std Dev 1.016

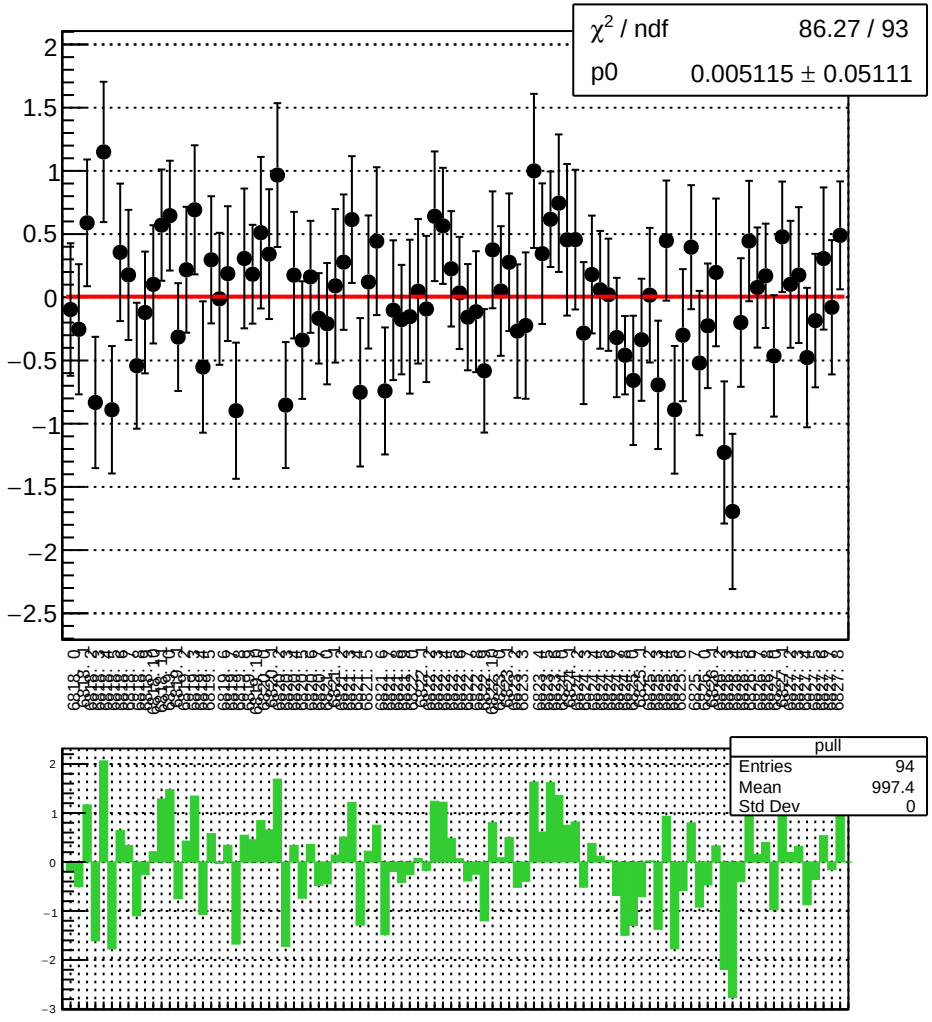

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5126 / 93
p0 0.001742 ± 1.302e−06
0.002
0.0019
0.0018
0.0017
0.0016

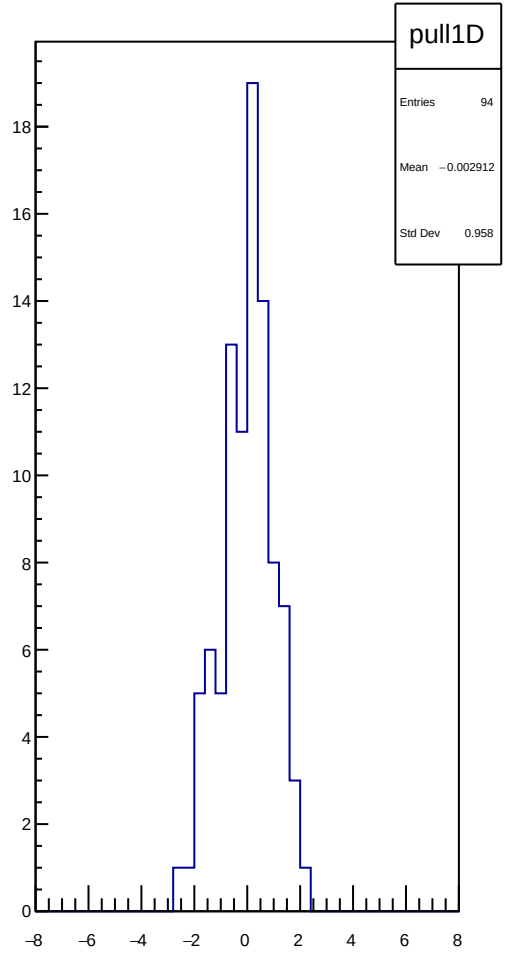

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.27 / 93
p0 0.005115 ± 0.05111
pull
Entries 94
Mean 997.4
Std Dev 0

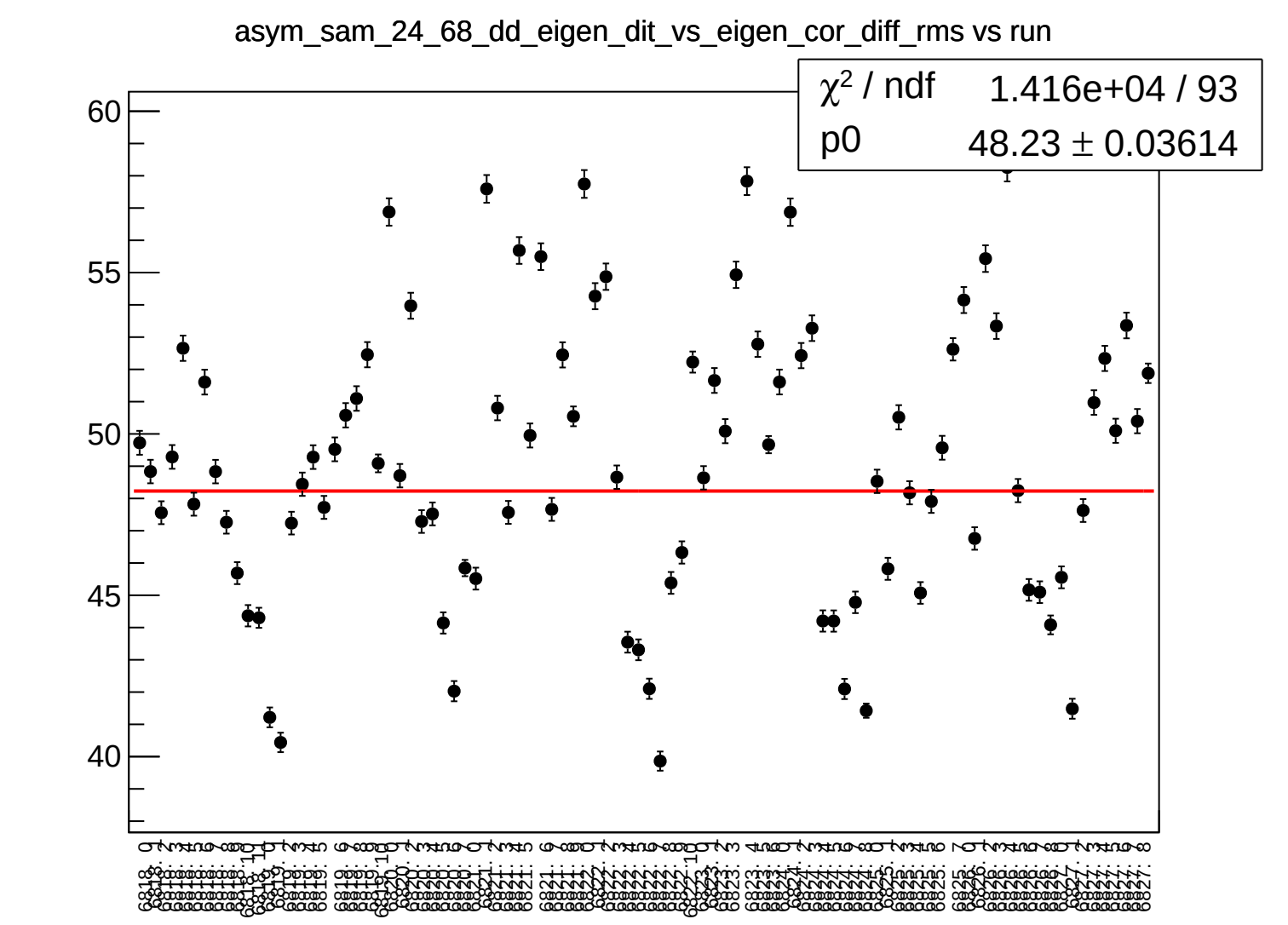

pull1D
Entries 94
Mean −0.002912
Std Dev 0.958

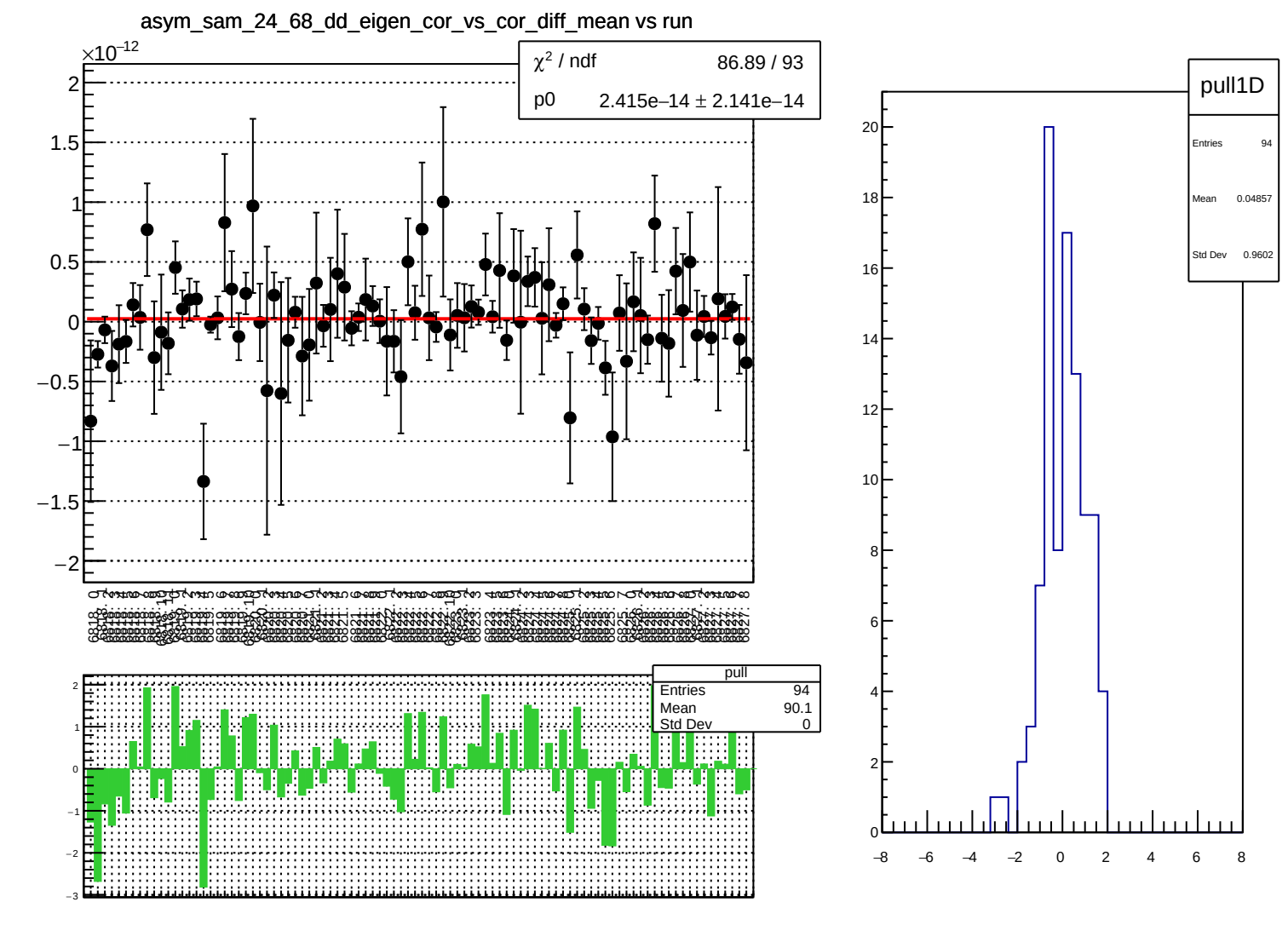

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.416e+04 / 93
p0 48.23 ± 0.03614
60
55
50
45
40

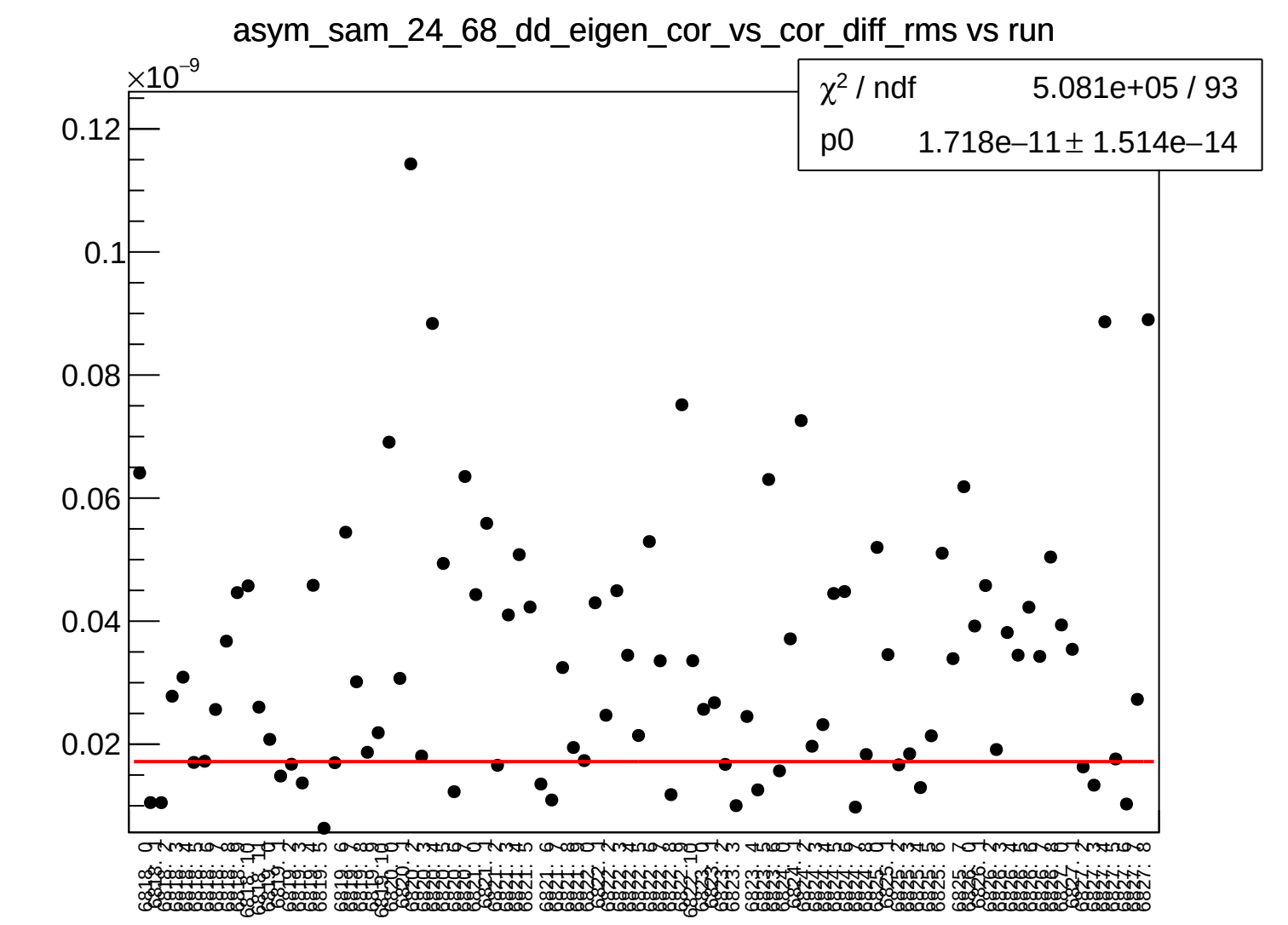
asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

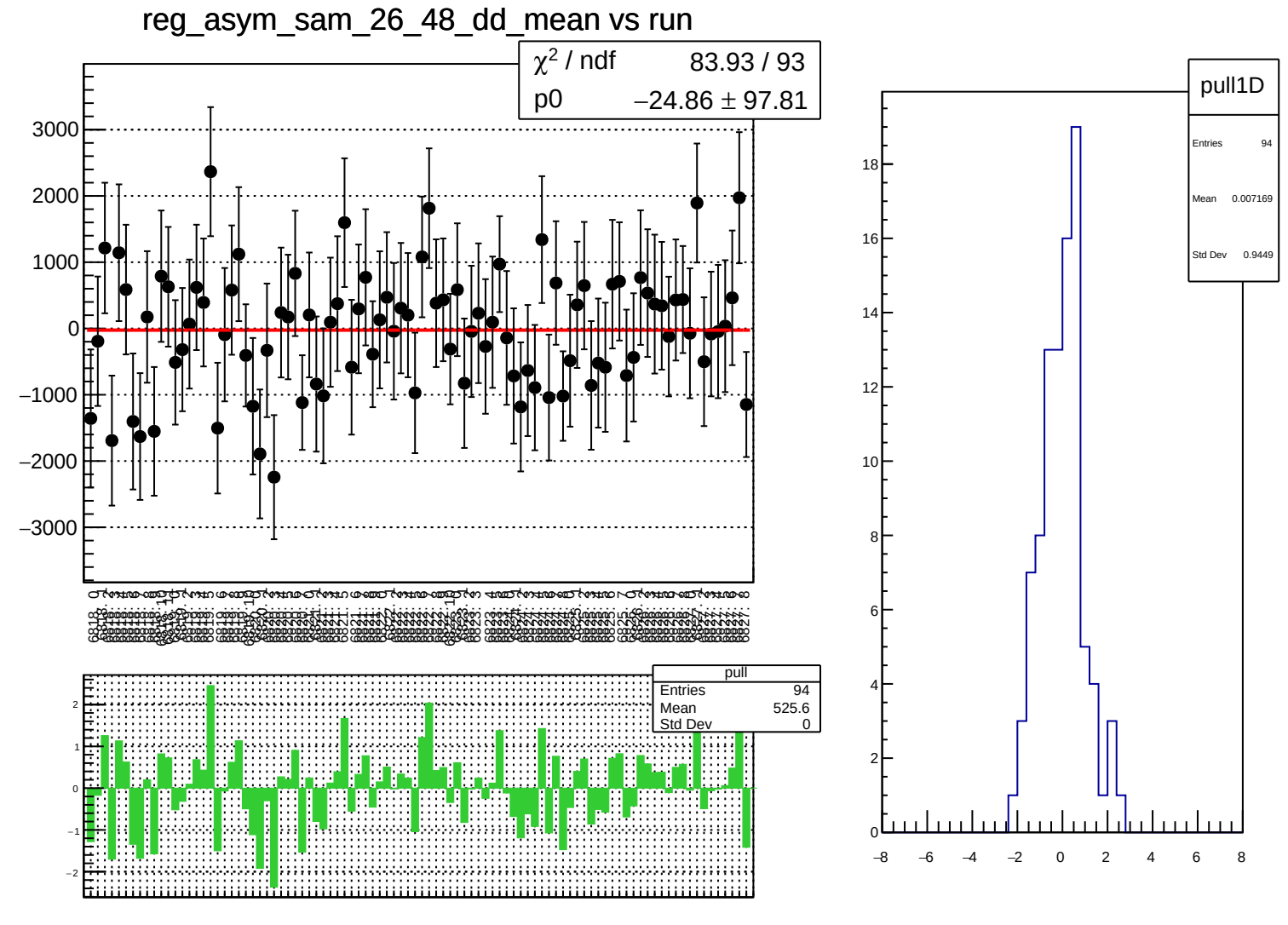


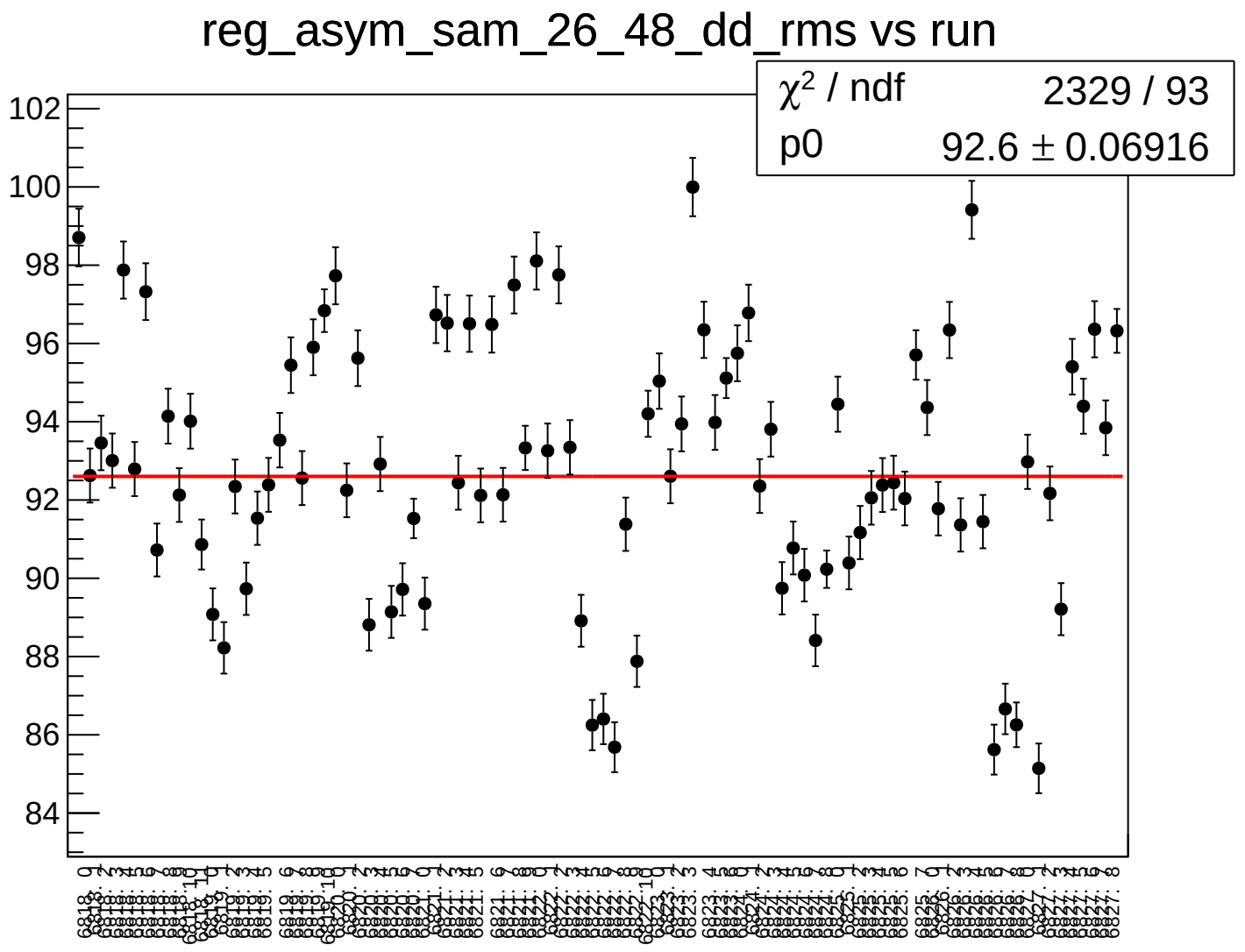


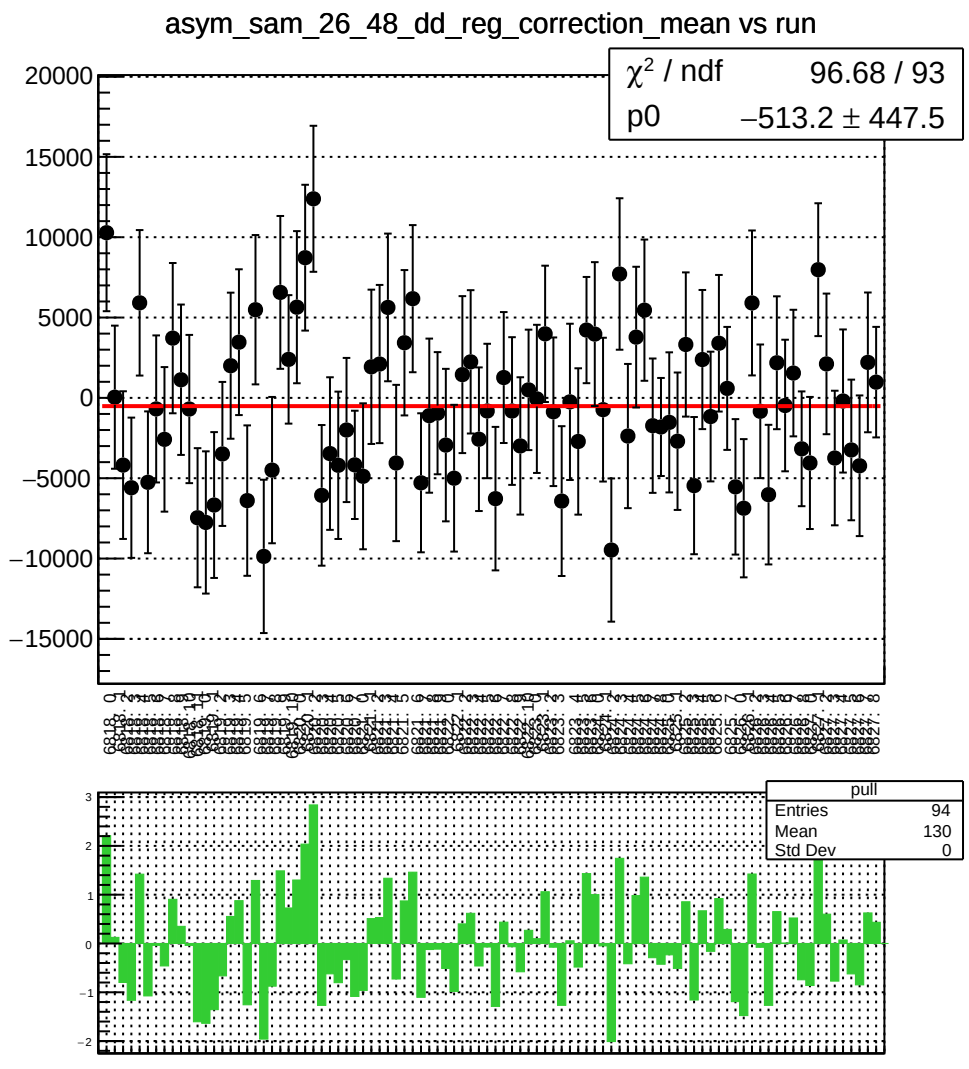

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.416e+04 / 93
p0 48.23 ± 0.03614
60
55
50
45
40

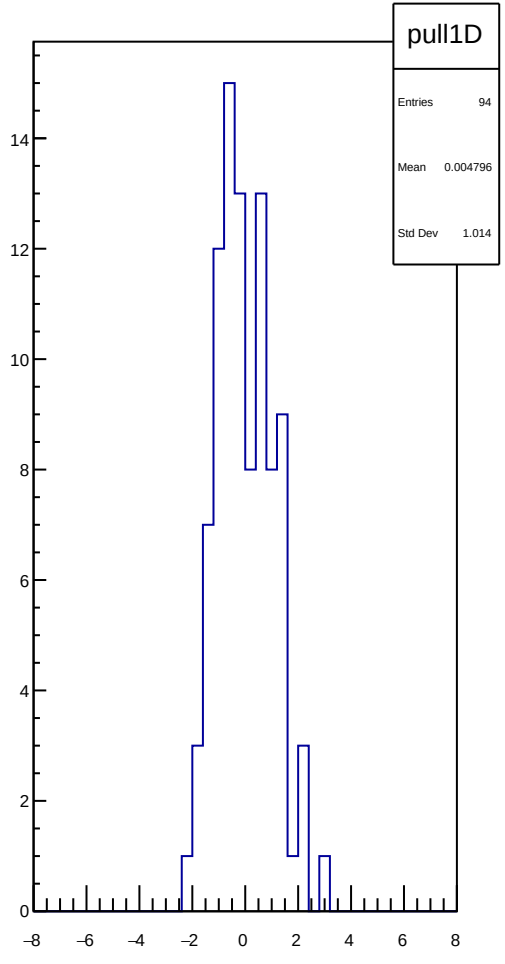

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.89 / 93
p0 2.415e−14 ± 2.141e−14
pull
Entries 94
Mean 90.1
Std Dev 0
pull1D
Entries 94
Mean 0.04857
Std Dev 0.9602

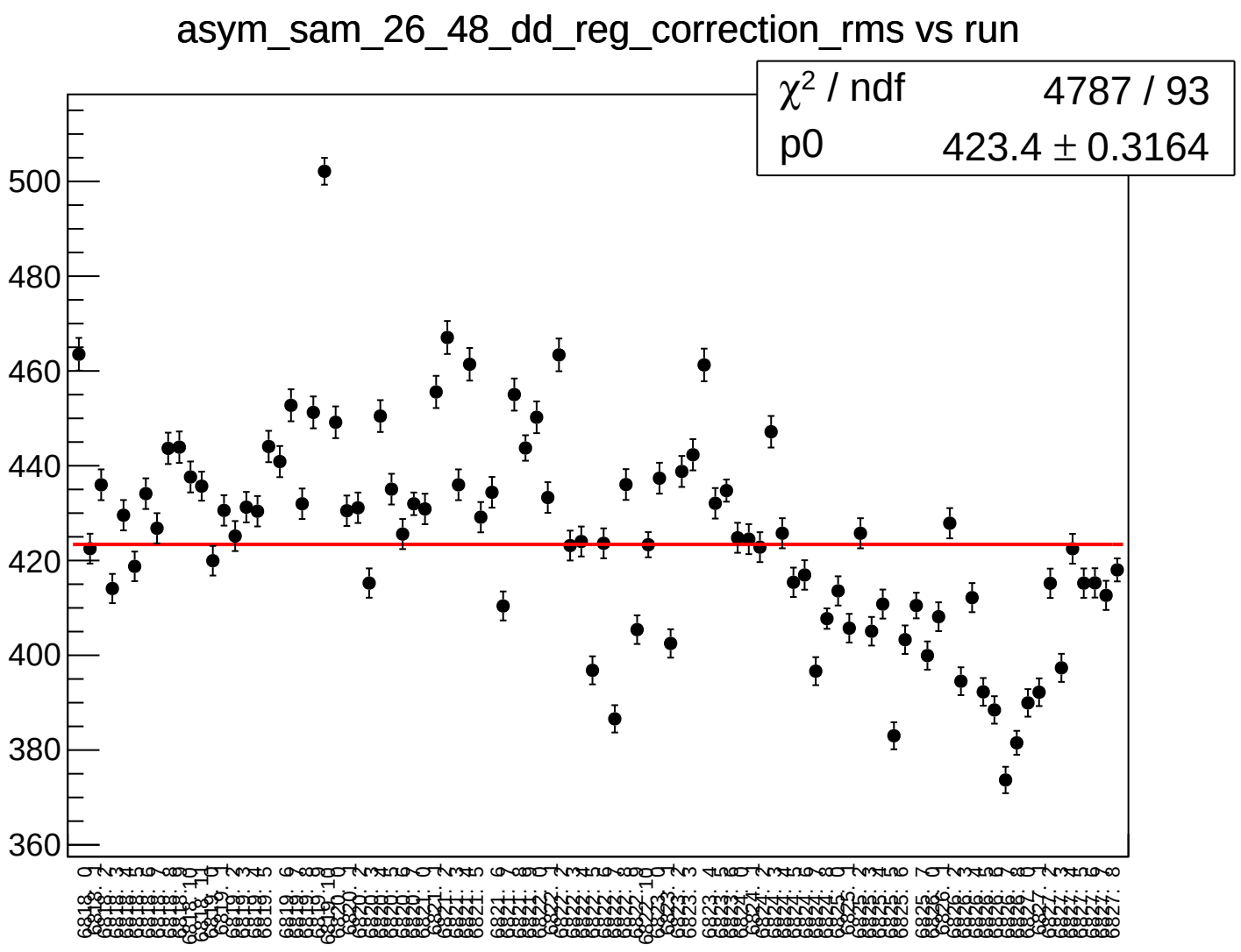

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.081e+05 / 93
p0 1.718e−11 ± 1.514e−14
0.12
0.1
0.08
0.06
0.04
0.02

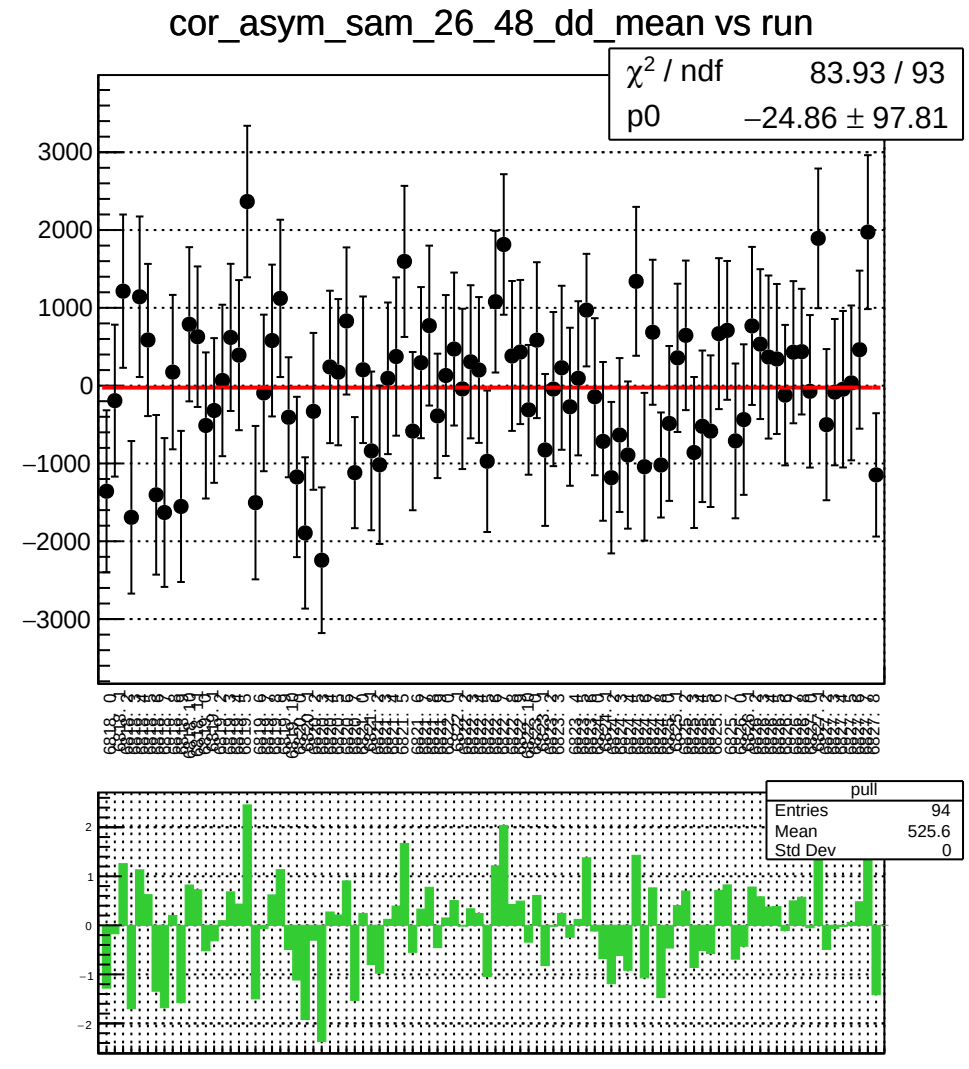

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.93 / 93
p0 −24.86 ± 97.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 525.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.007169
Std Dev 0.9449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

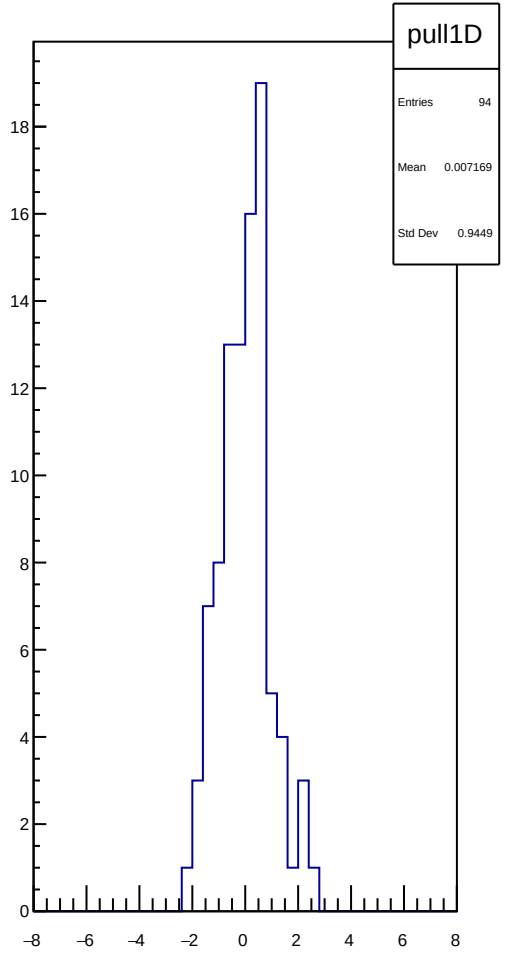

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2329 / 93
p0 92.6 ± 0.06916
102
100
98
96
94
92
90
88
86
84

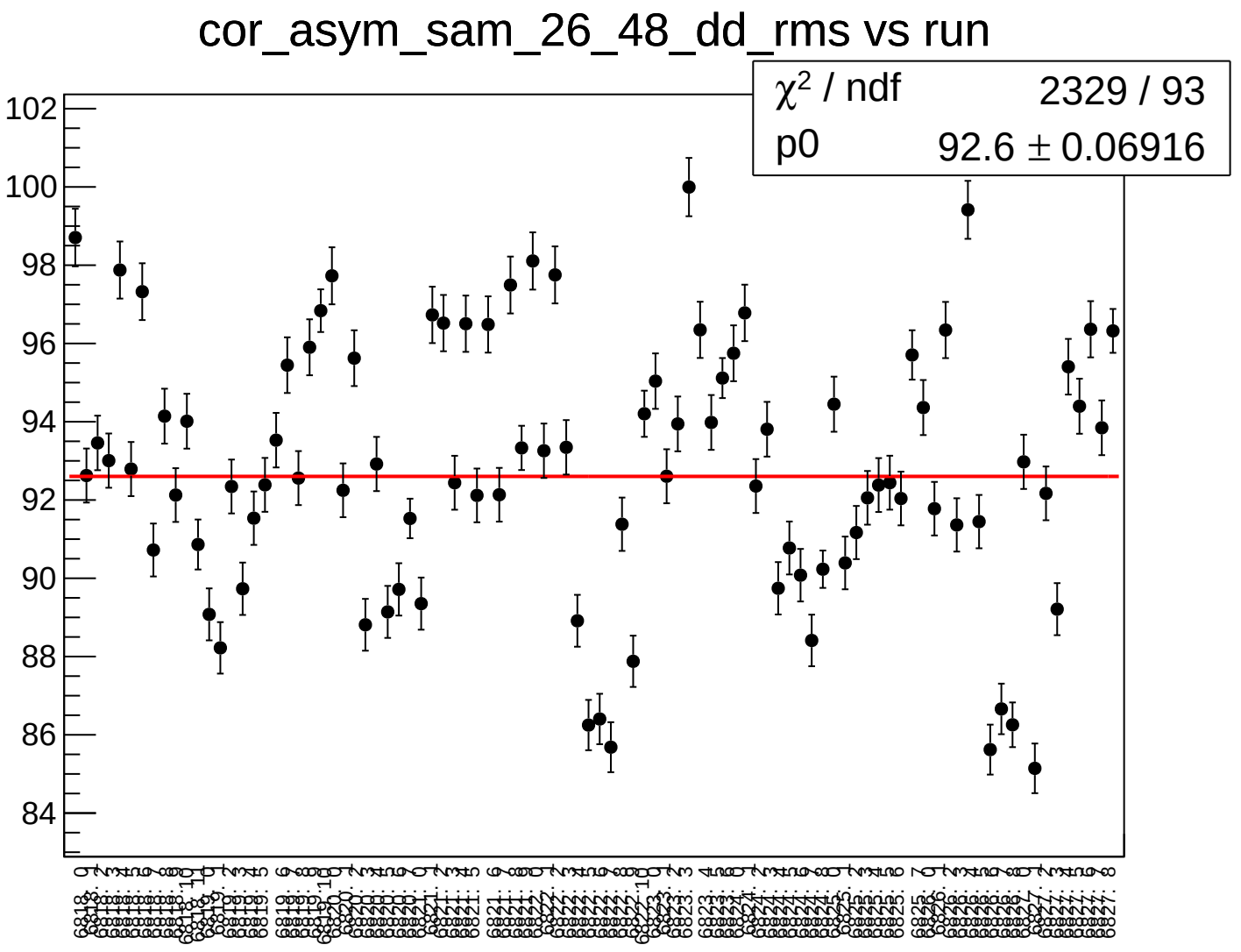

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 96.68 / 93
p0 −513.2 ± 447.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 130
Std Dev 0
3
2
1
0
−1
−2

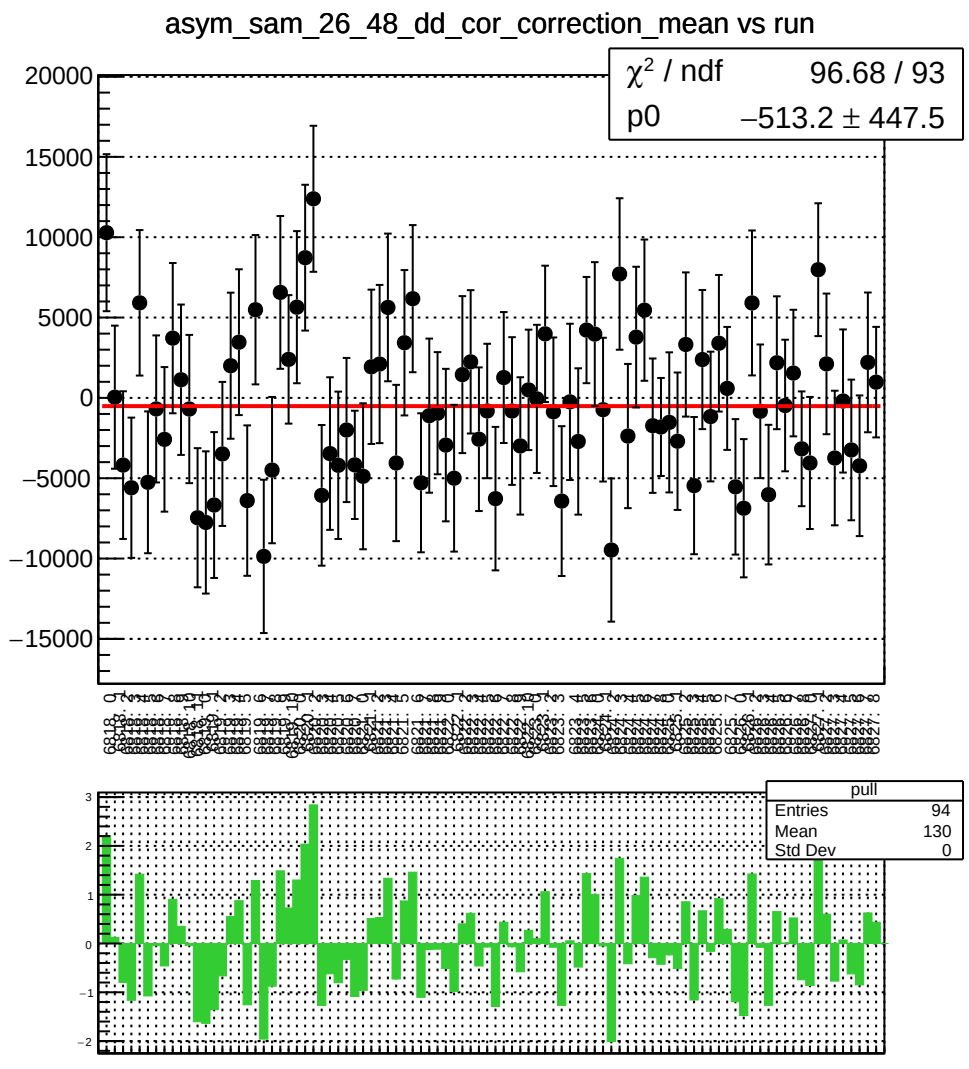

pull1D
Entries 94
Mean 0.004796
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

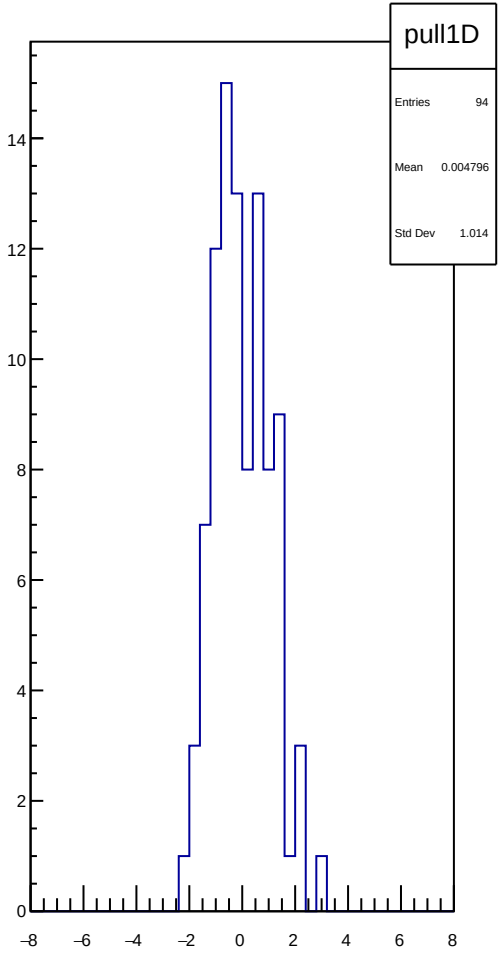

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 4787 / 93
p0 423.4 ± 0.3164
500
480
460
440
420
400
380
360

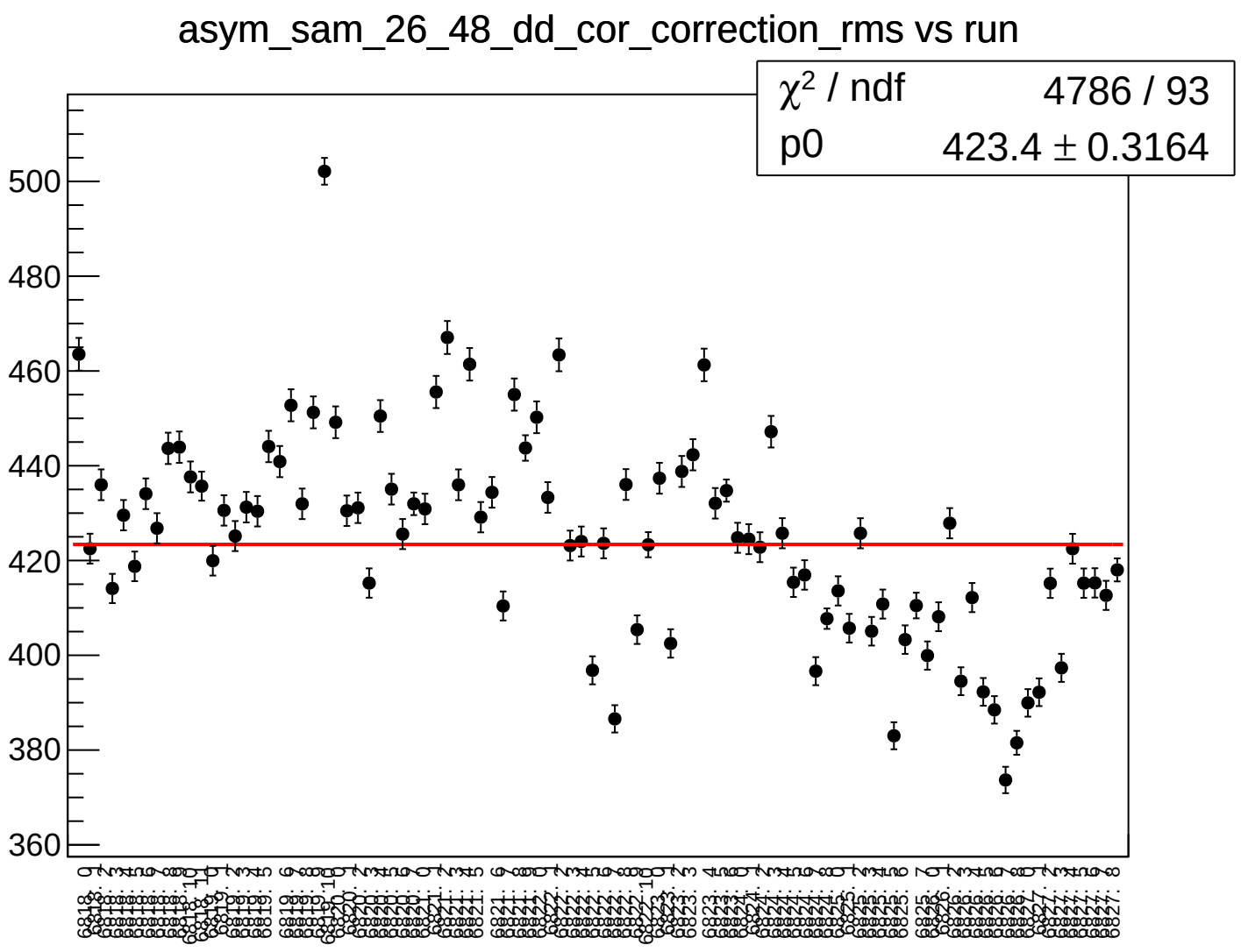

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.93 / 93
p0 −24.86 ± 97.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 525.6
Std Dev 0
2
1
0
−1
−2

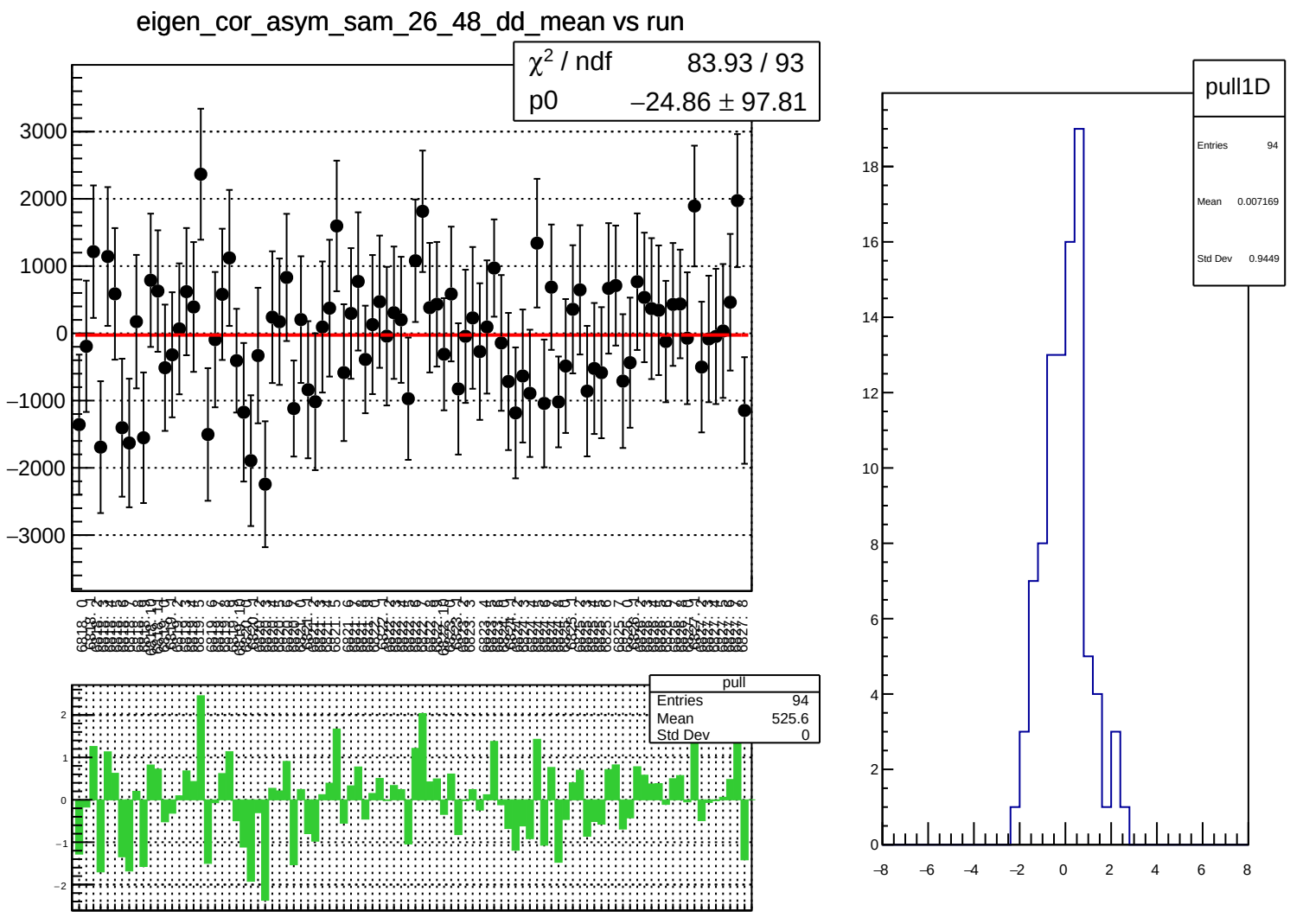

pull1D
Entries 94
Mean 0.007169
Std Dev 0.9449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

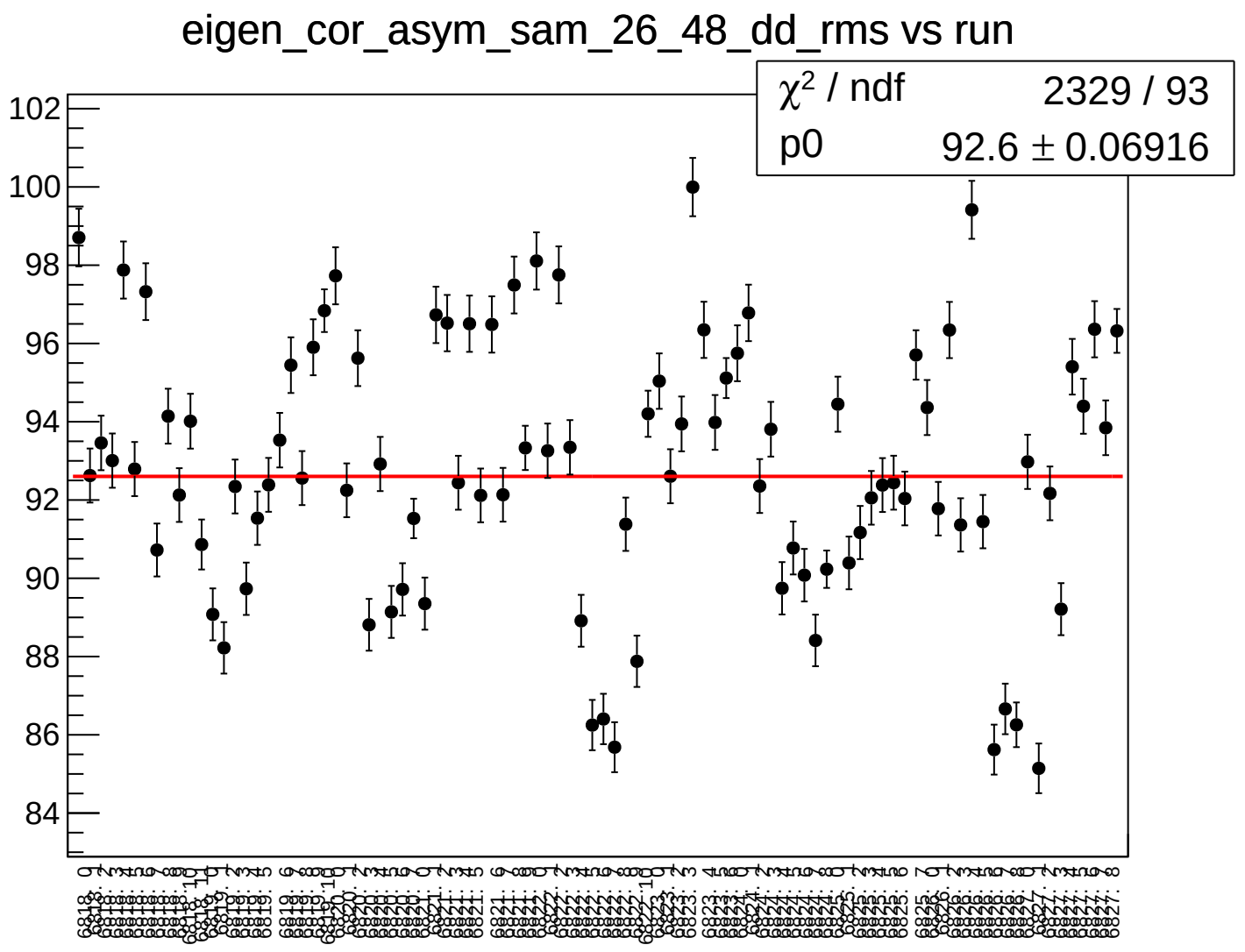

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2329 / 93
p0 92.6 ± 0.06916
102
100
98
96
94
92
90
88
86
84

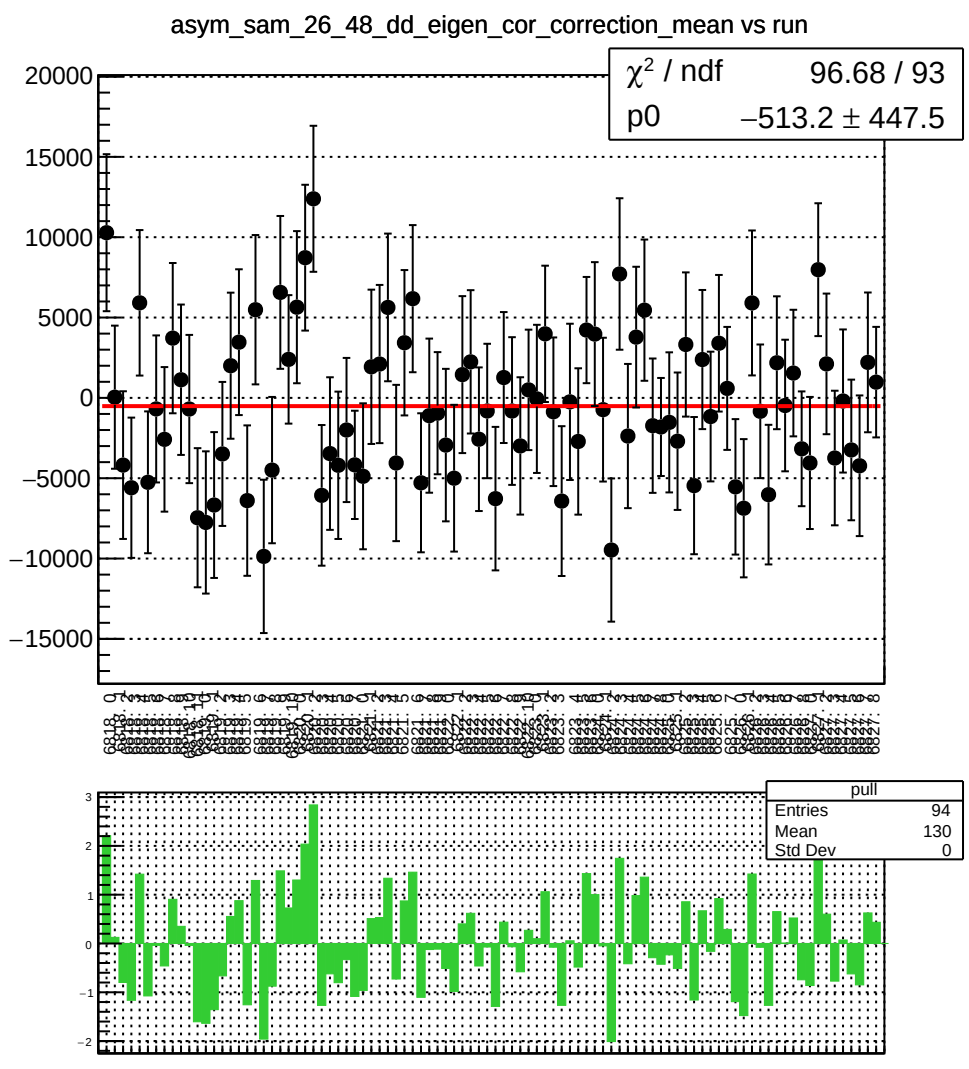

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 96.68 / 93
p0 −513.2 ± 447.5
pull
Entries 94
Mean 130
Std Dev 0

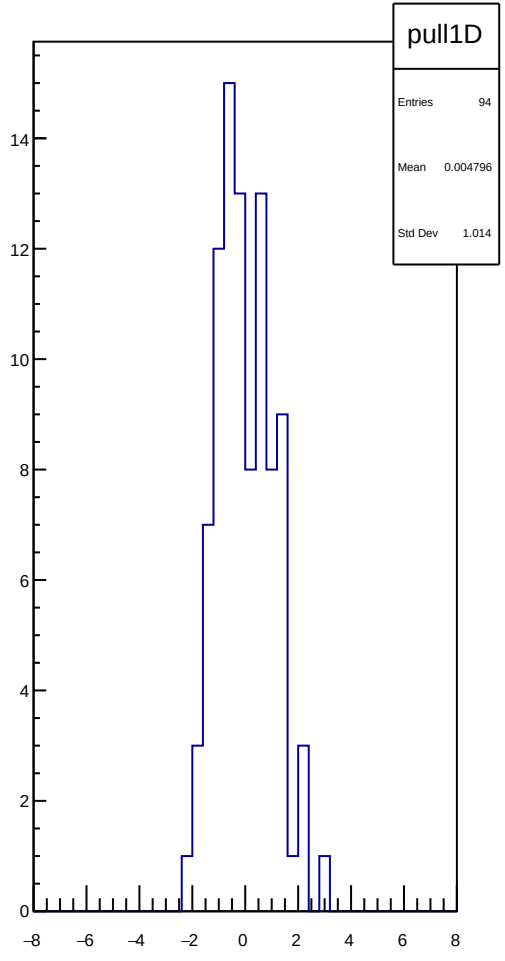

pull1D
Entries 94
Mean 0.004796
Std Dev 1.014

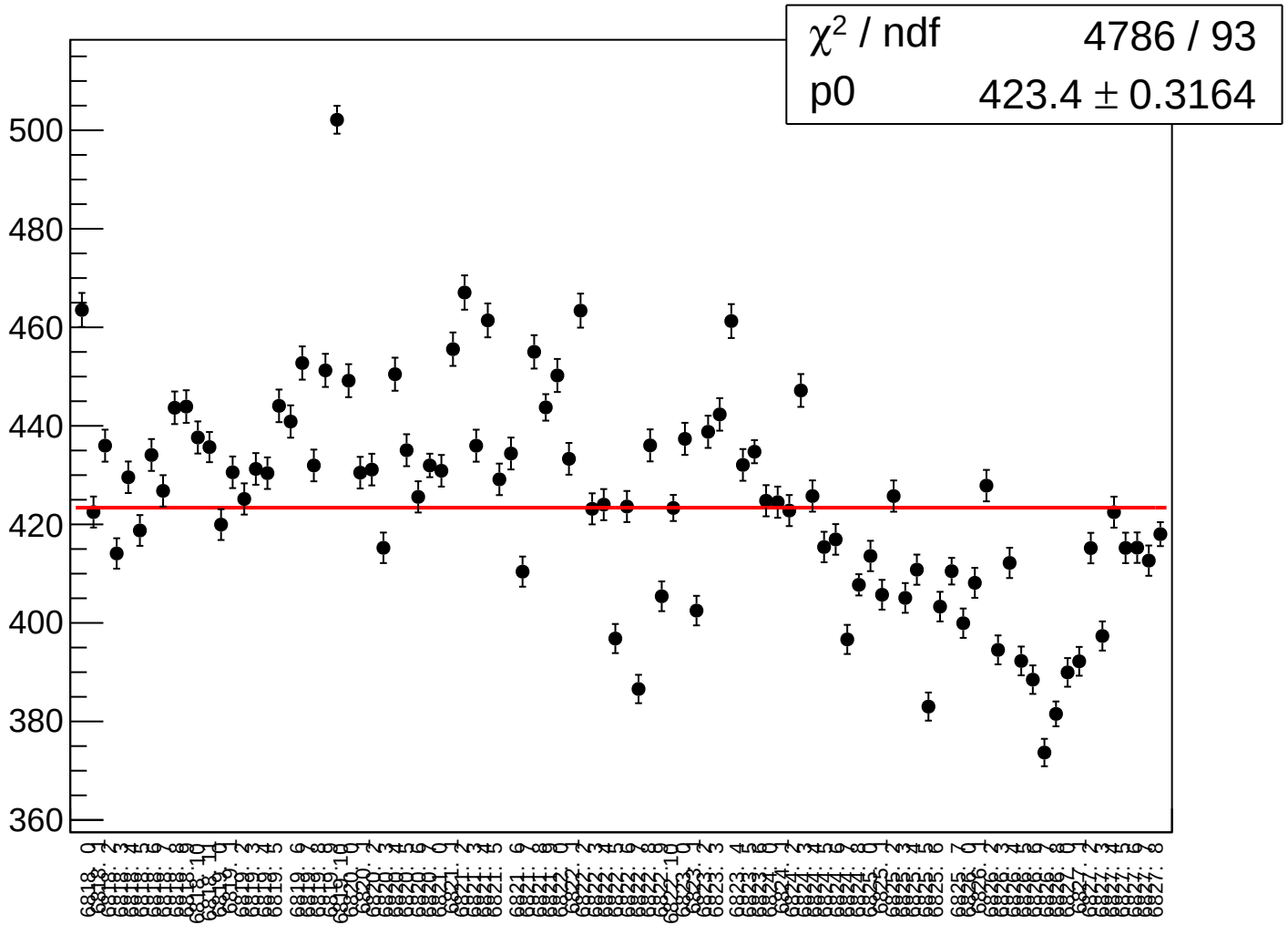

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 4786 / 93
p0 423.4 ± 0.3164
500
480
460
440
420
400
380
360

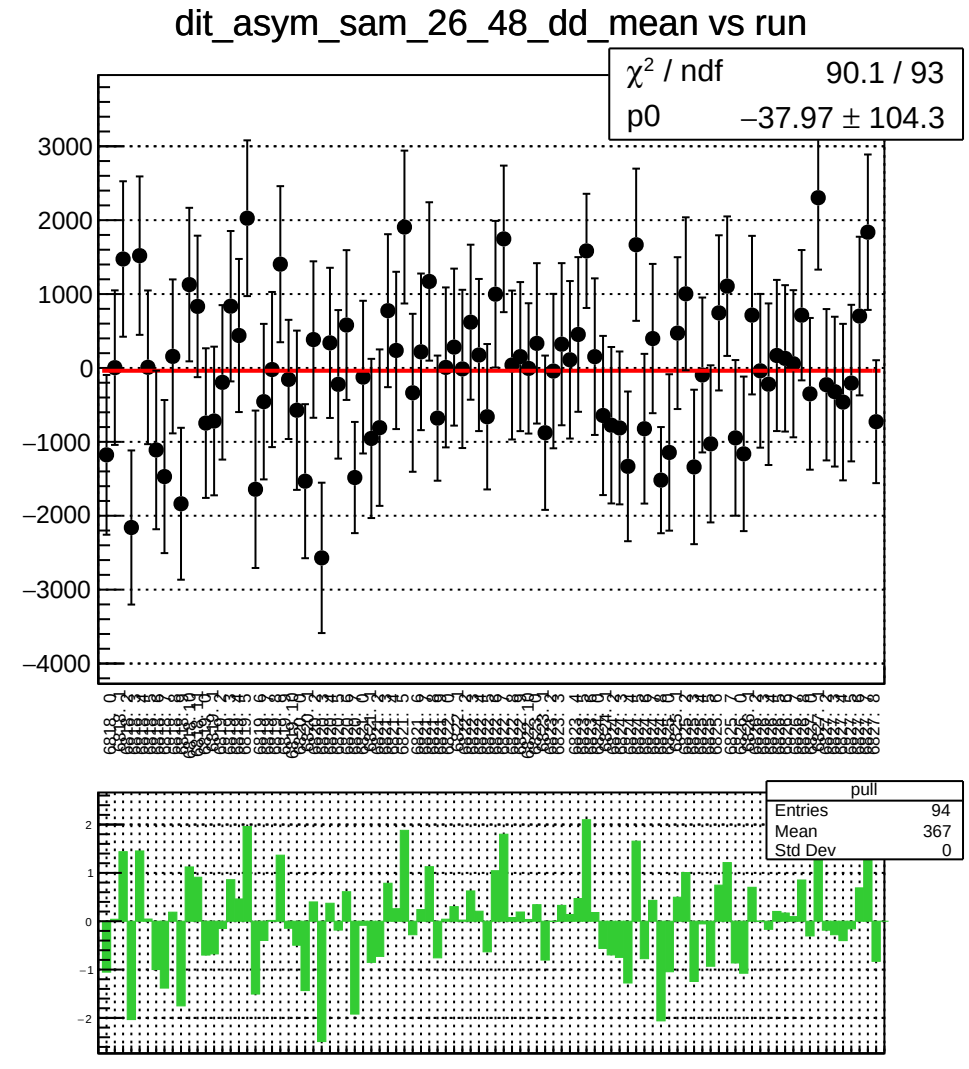

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.93 / 93
p0 −24.86 ± 97.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 525.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.007169
Std Dev 0.9449
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

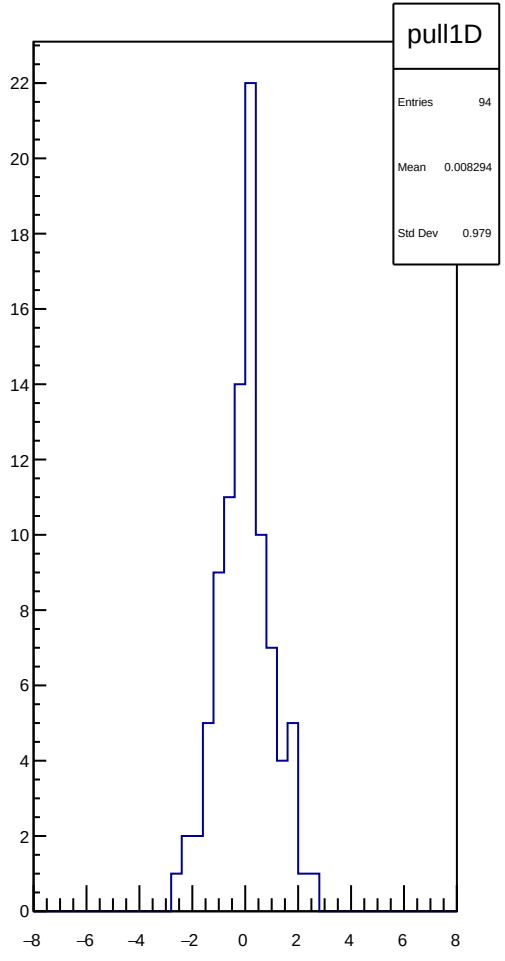

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 2329 / 93
p0 92.6 ± 0.06916
102
100
98
96
94
92
90
88
86
84

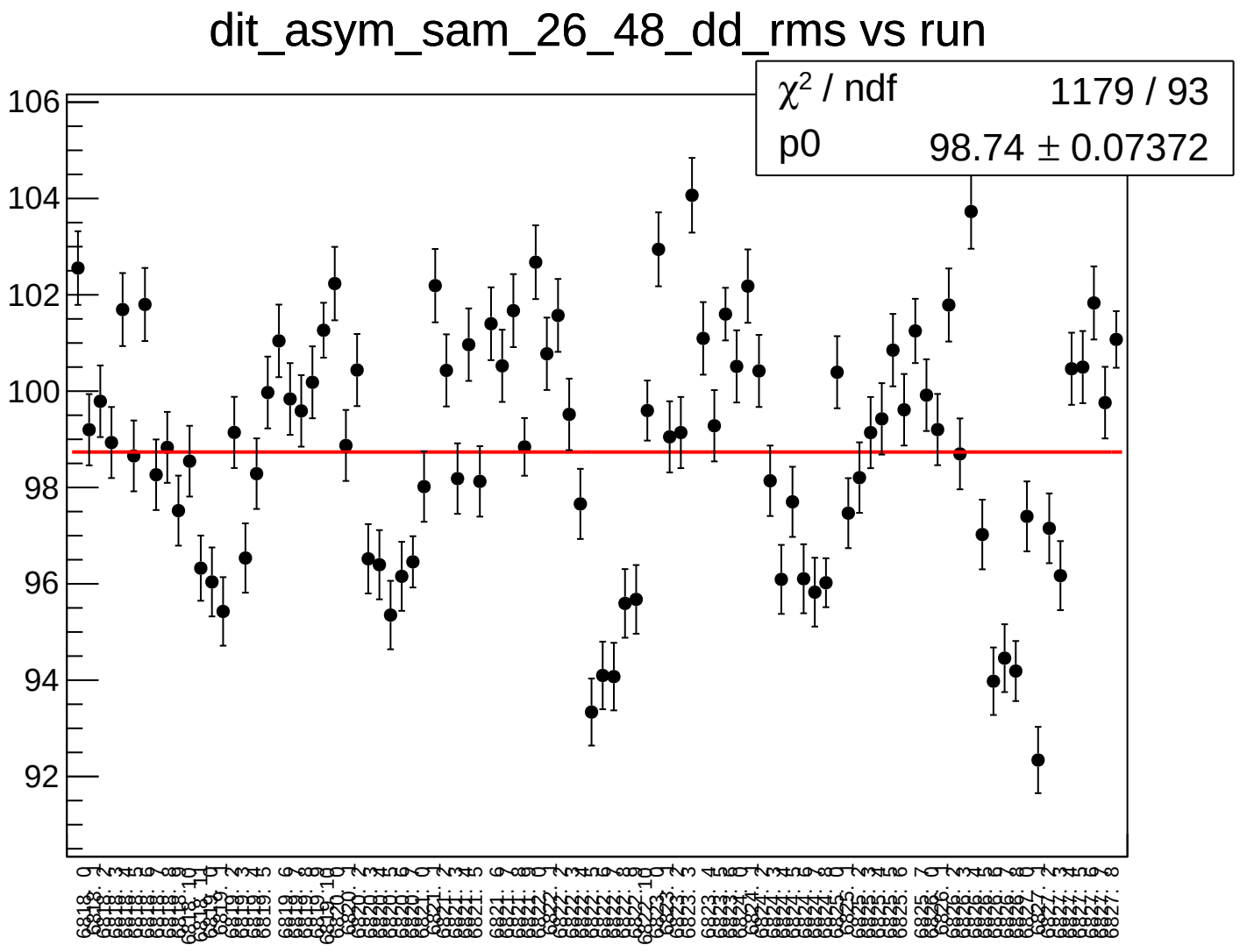

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 96.68 / 93
p0 −513.2 ± 447.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 130
Std Dev 0
3
2
1
0
−1
−2

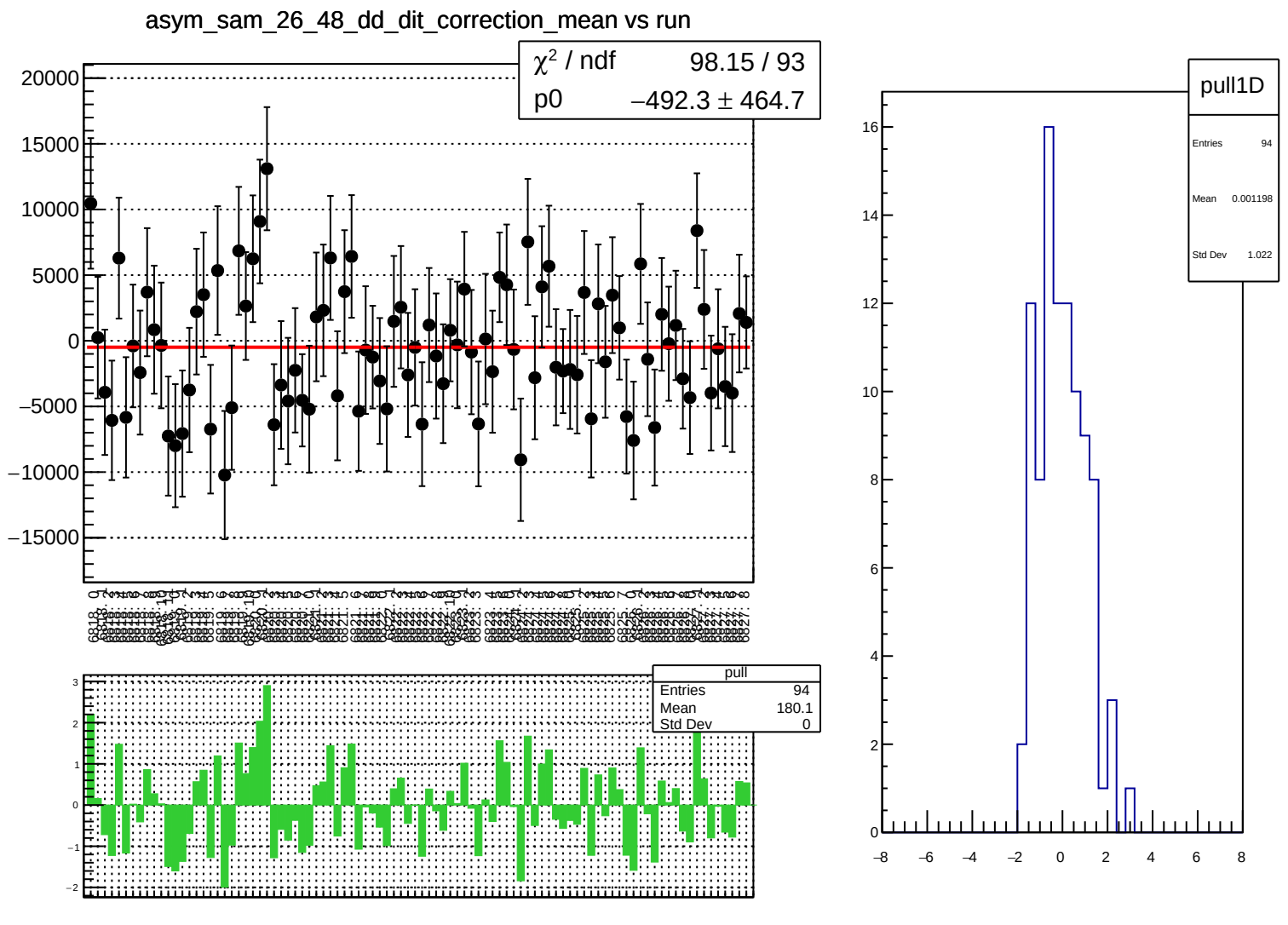

pull1D
Entries 94
Mean 0.004796
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

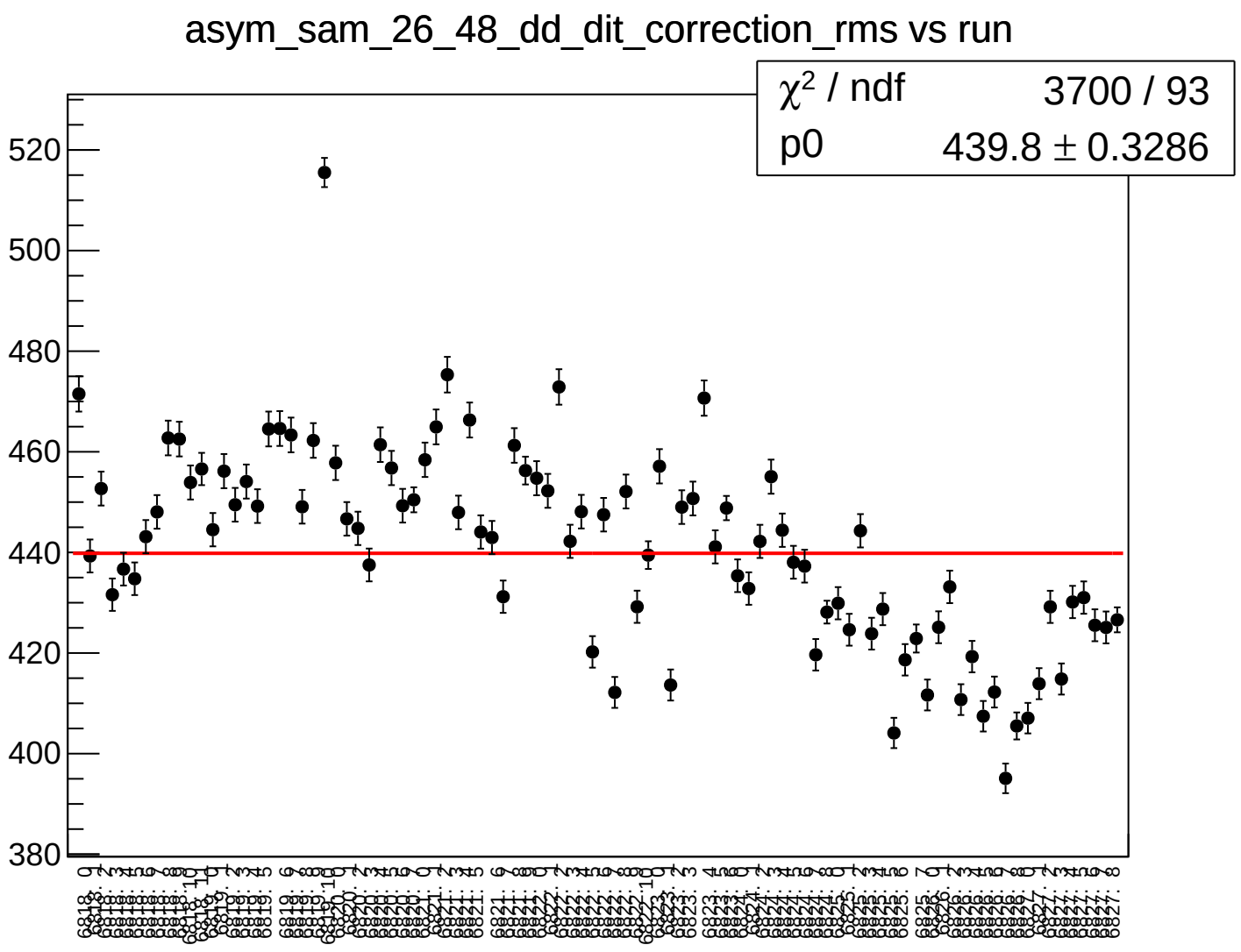

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4786 / 93
p0 423.4 ± 0.3164
500
480
460
440
420
400
380
360

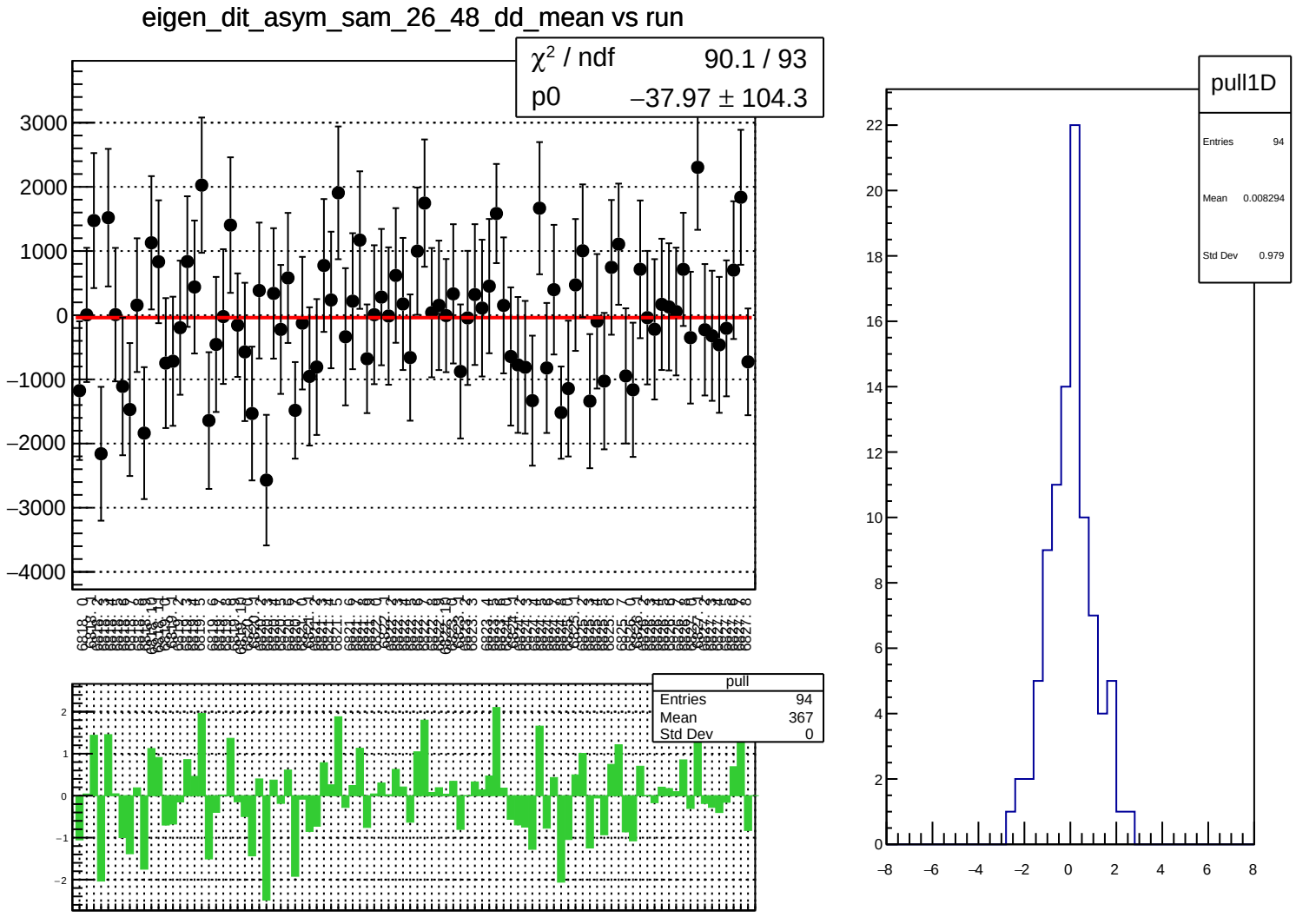

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.1 / 93
p0 −37.97 ± 104.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 367
Std Dev 0
2
1
0
−1
−2

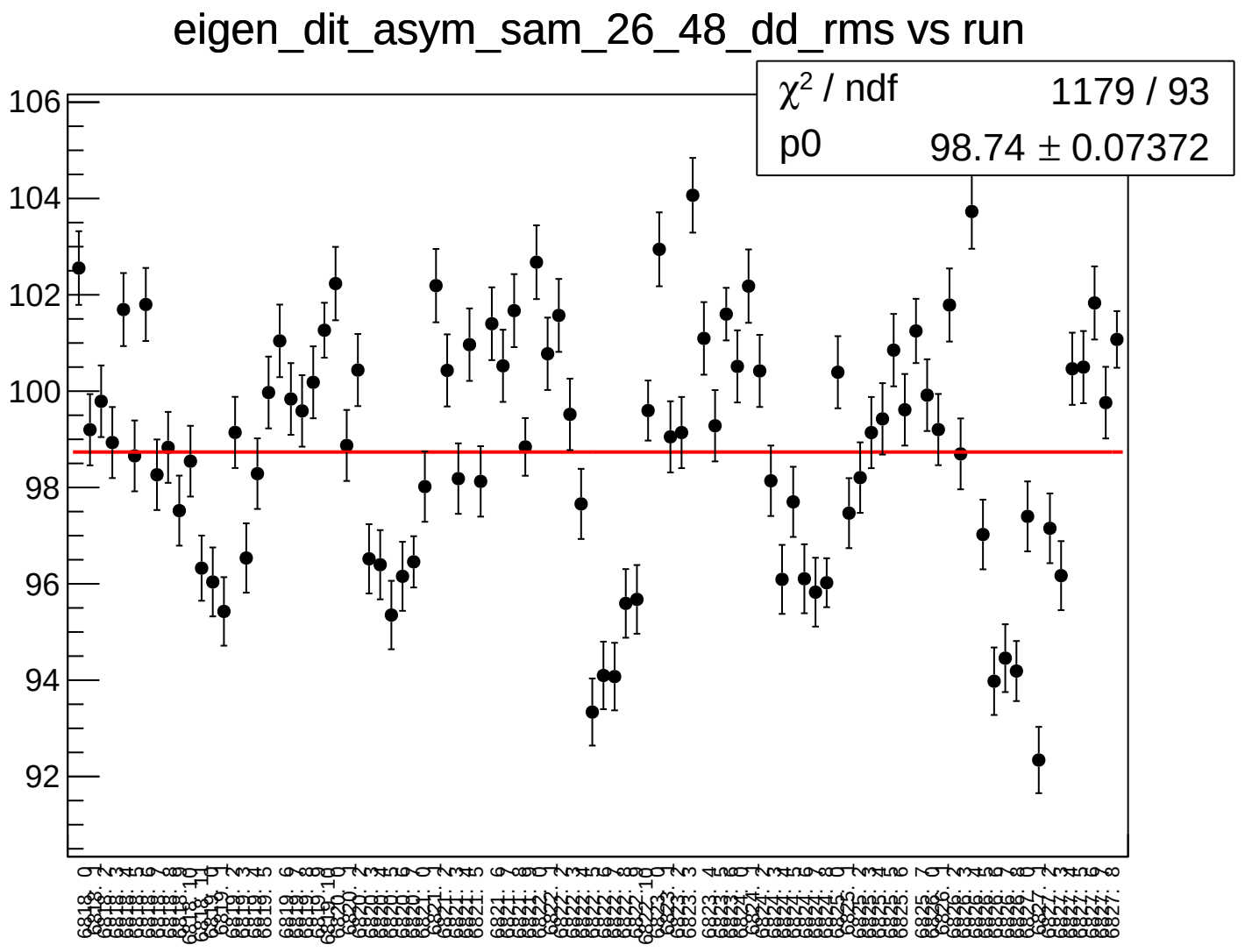

pull1D
Entries 94
Mean 0.008294
Std Dev 0.979
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

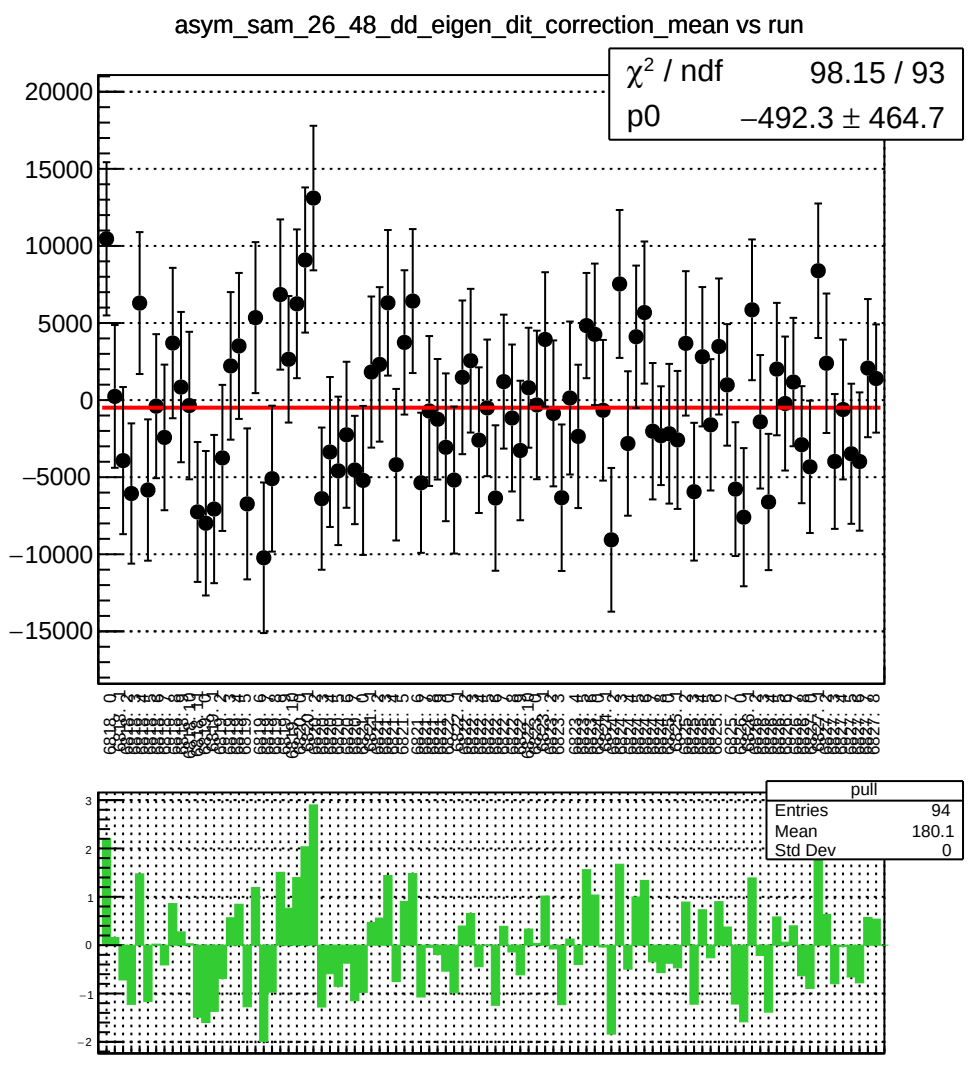

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1179 / 93
p0 98.74 ± 0.07372
106
104
102
100
98
96
94
92

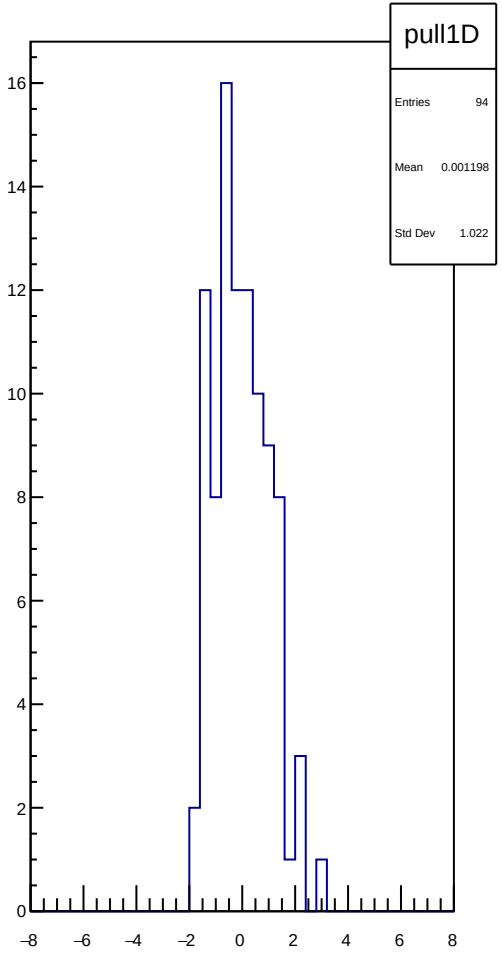

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 98.15 / 93
p0 −492.3 ± 464.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean 180.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001198
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

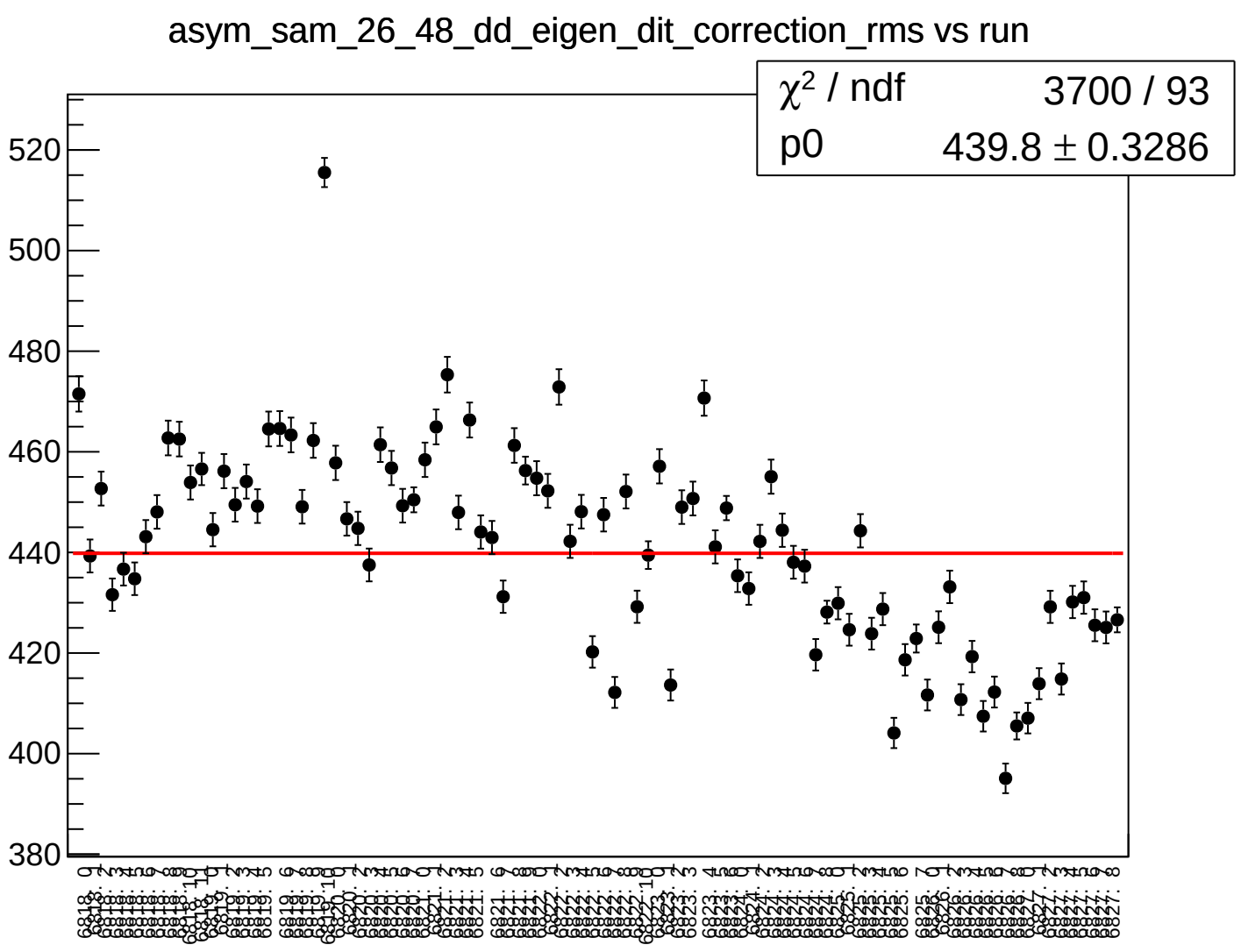

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3700 / 93
p0 439.8 ± 0.3286
520
500
480
460
440
420
400
380

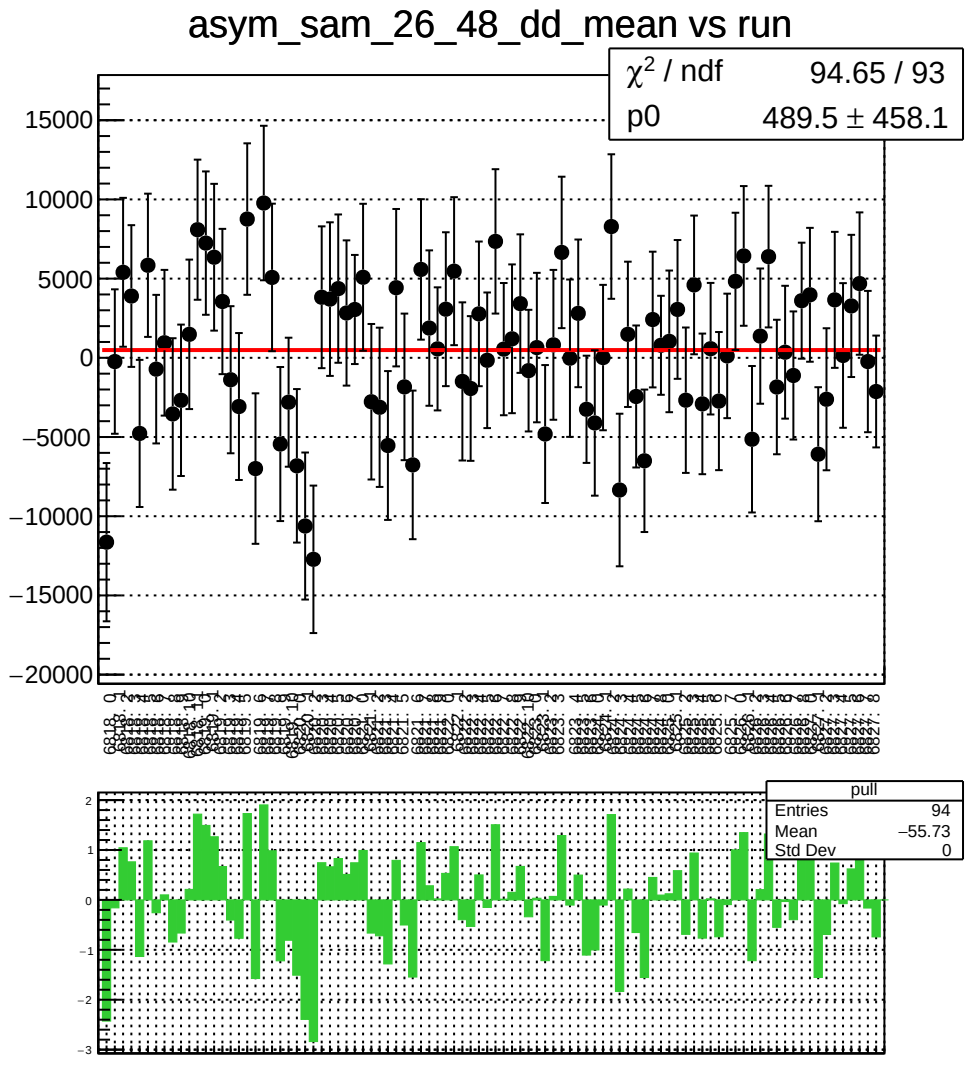

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.1 / 93
p0 −37.97 ± 104.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean 367
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.008294
Std Dev 0.979
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

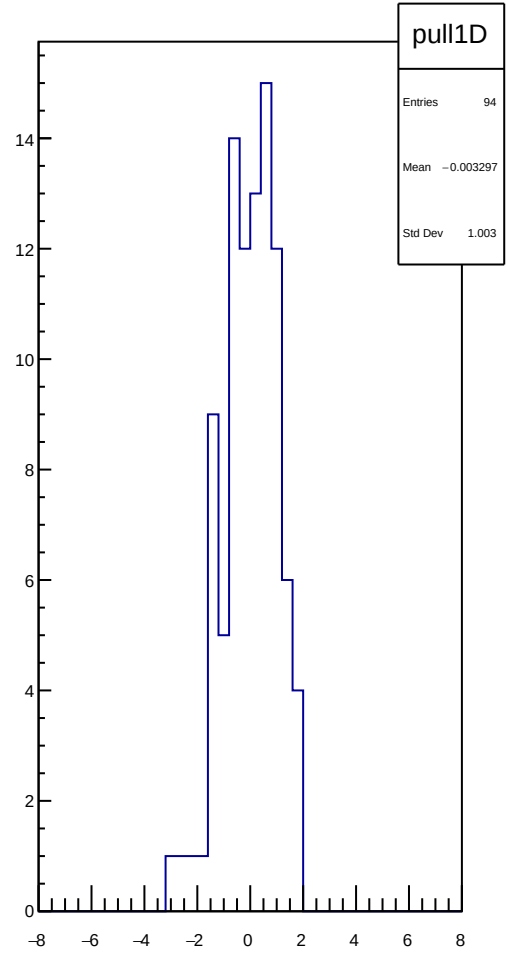

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 1179 / 93
p0 98.74 ± 0.07372
106
104
102
100
98
96
94
92

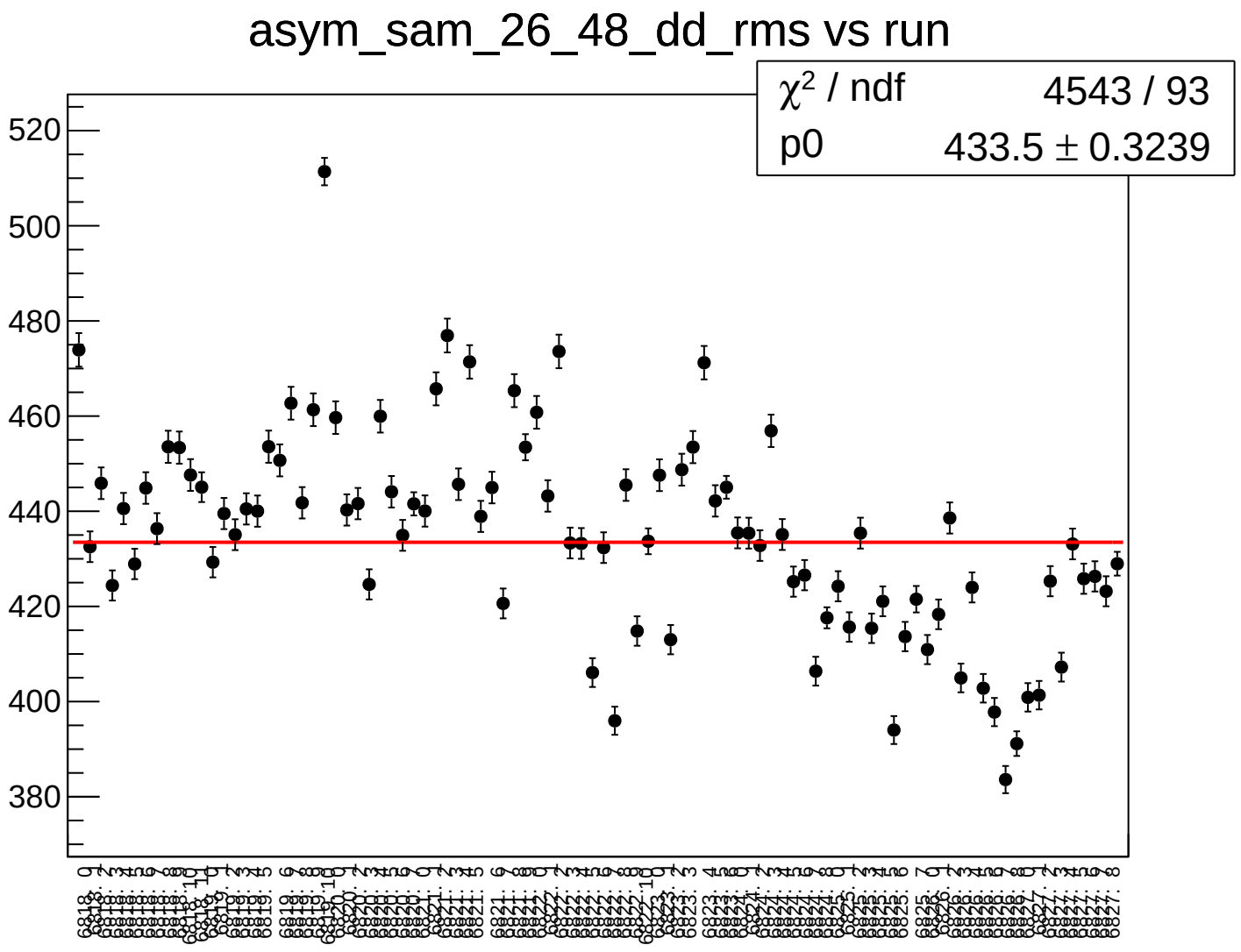

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.15 / 93
p0 −492.3 ± 464.7
pull
Entries 94
Mean 180.1
Std Dev 0

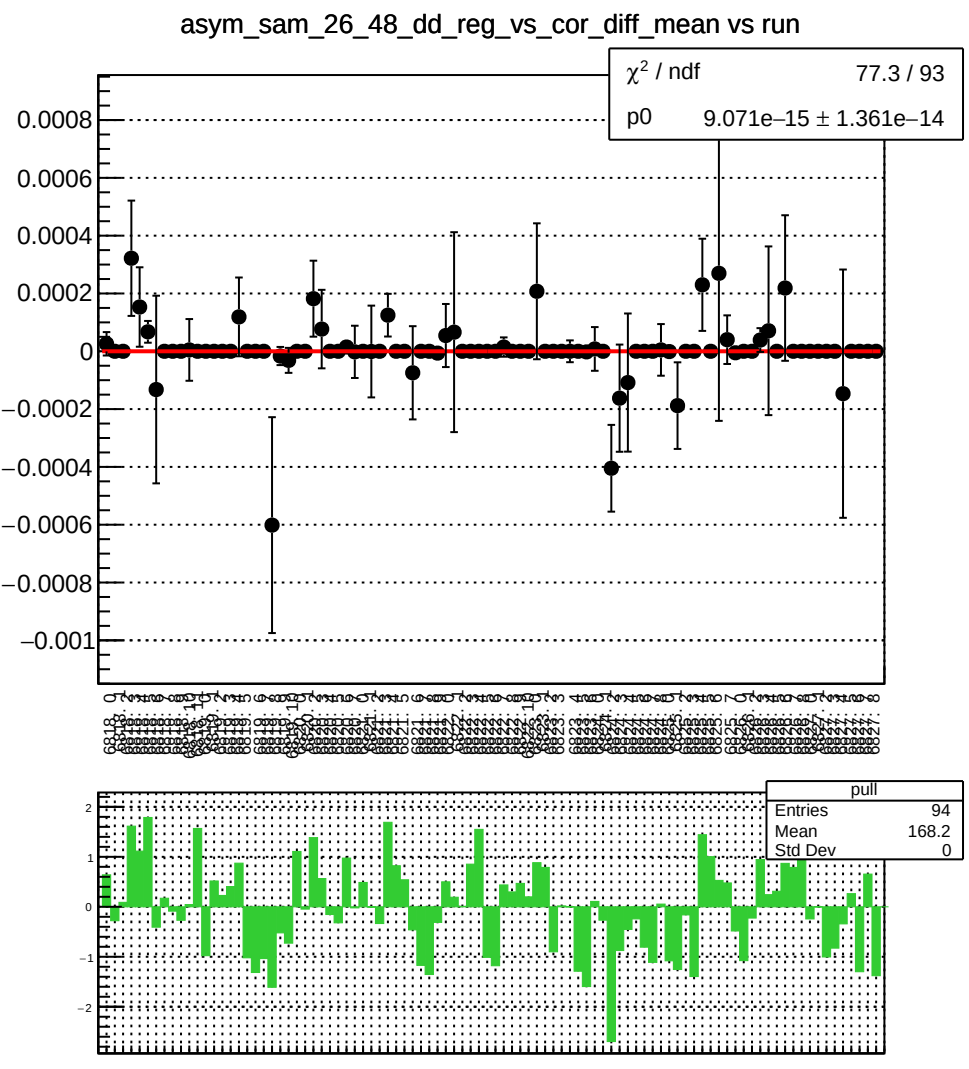

pull1D
Entries 94
Mean 0.001198
Std Dev 1.022

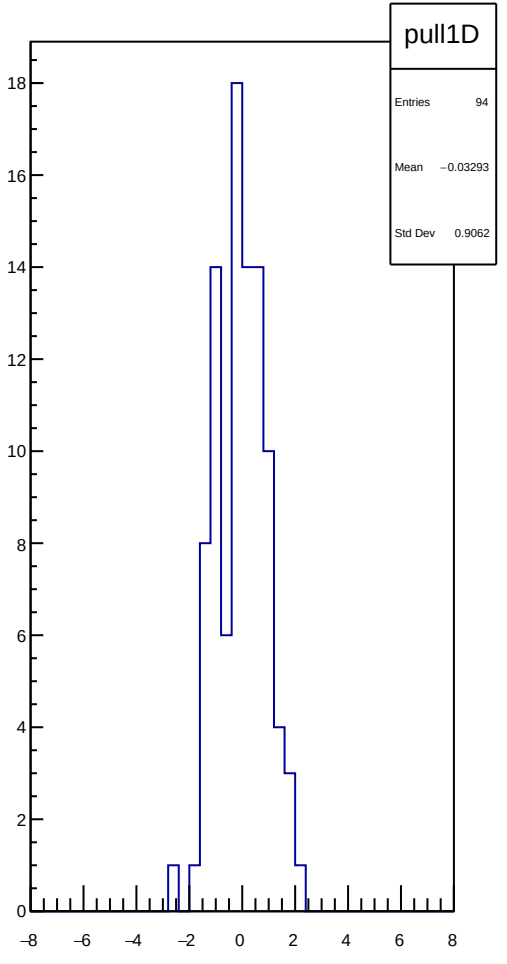

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3700 / 93
p0 439.8 ± 0.3286
520
500
480
460
440
420
400
380

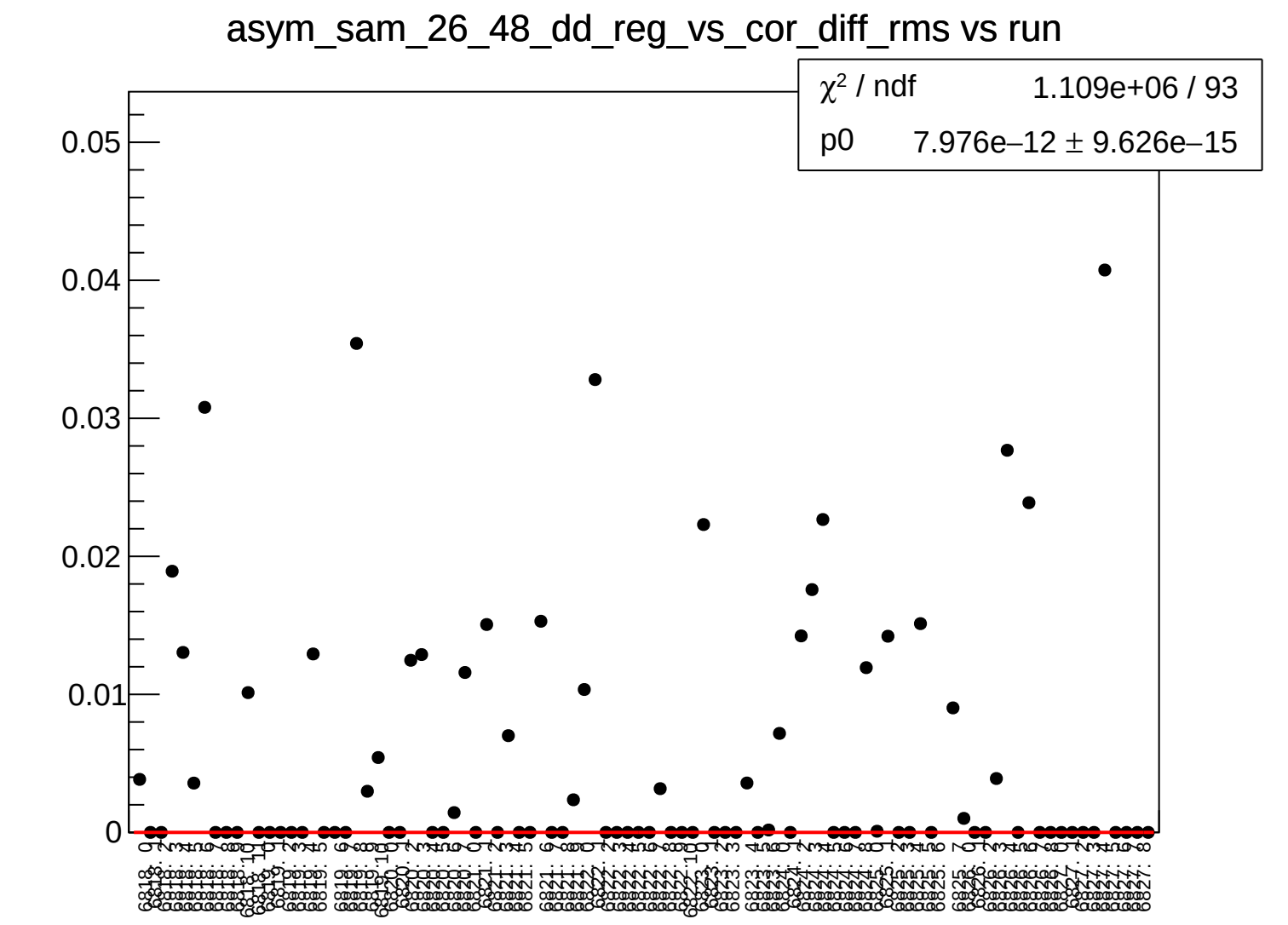

asym_sam_26_48_dd_mean vs run
χ² / ndf 94.65 / 93
p0 489.5 ± 458.1
pull
Entries 94
Mean −55.73
Std Dev 0

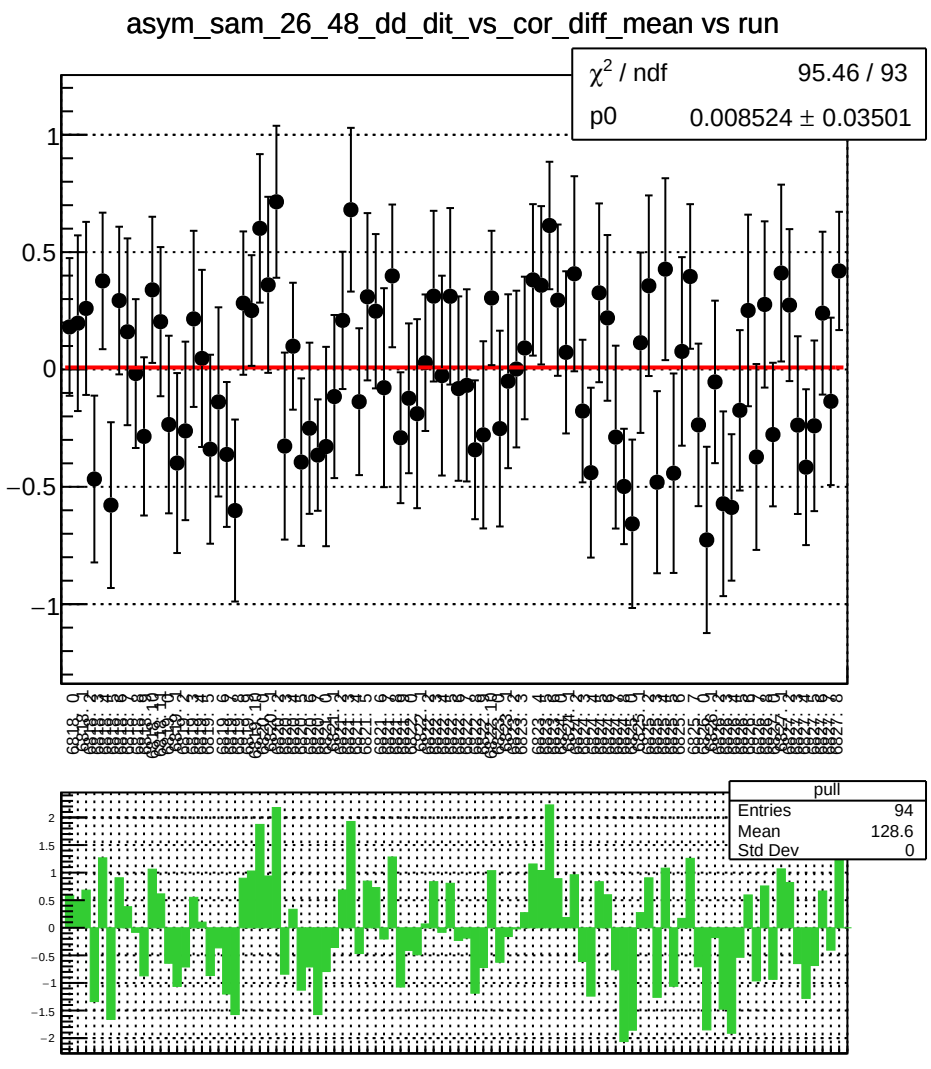

pull1D
Entries 94
Mean −0.003297
Std Dev 1.003

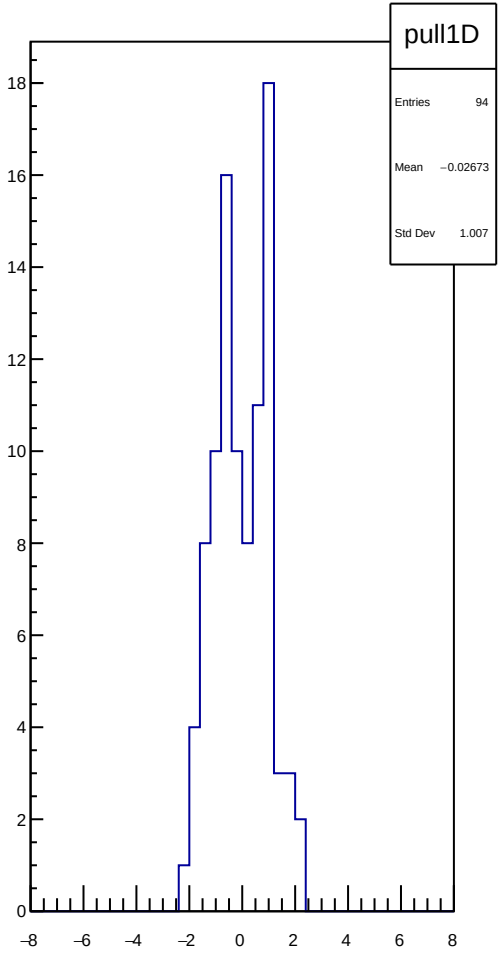

asym_sam_26_48_dd_rms vs run
χ² / ndf 4543 / 93
p0 433.5 ± 0.3239
520
500
480
460
440
420
400
380

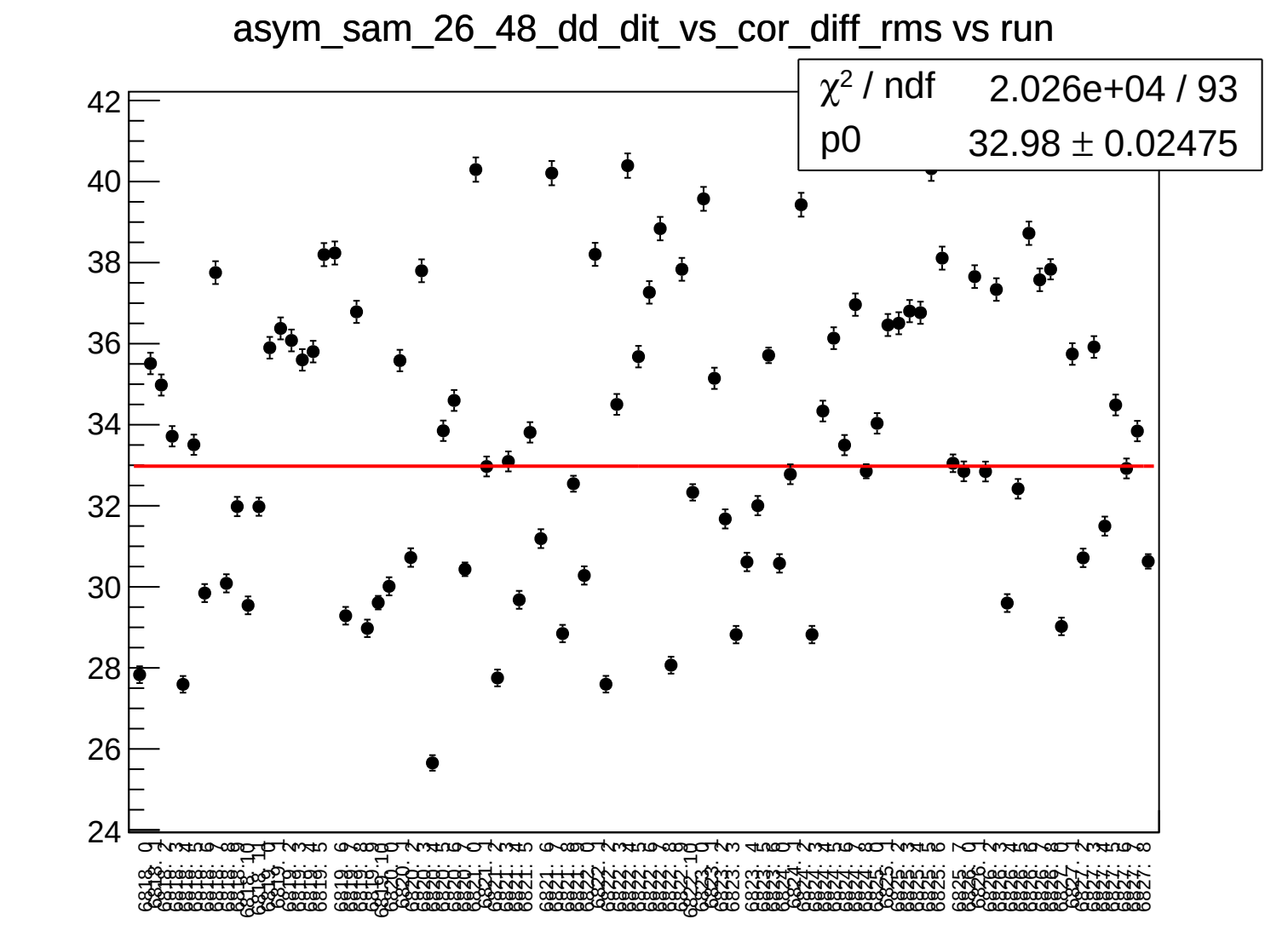

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.3 / 93
p0 9.071e−15 ± 1.361e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 94
Mean 168.2
Std Dev 0
2
1
0
−1
−2

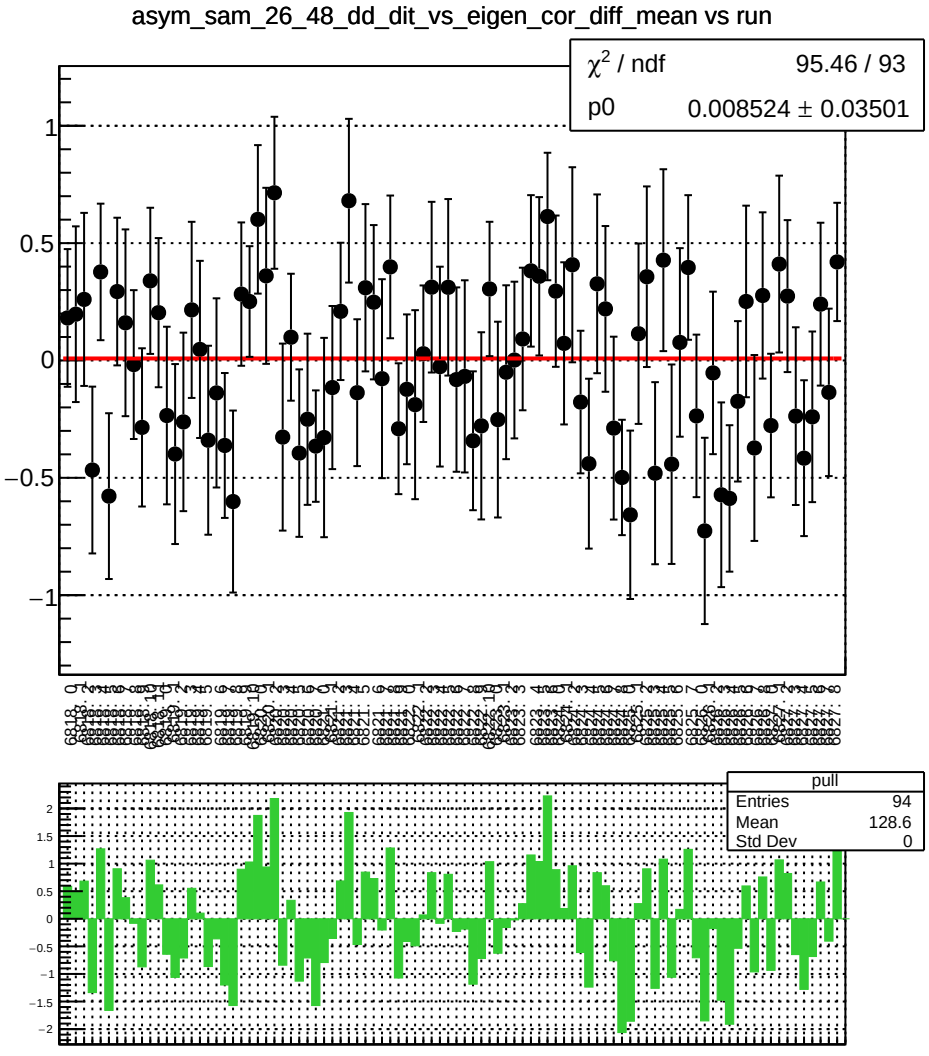

pull1D
Entries 94
Mean −0.03293
Std Dev 0.9062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

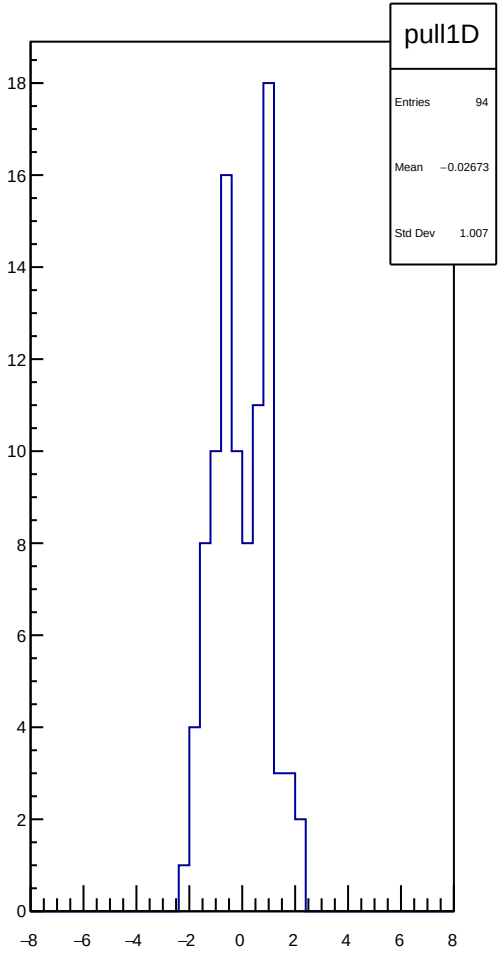

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 93
p0 7.976e−12 ± 9.626e−15
0.05
0.04
0.03
0.02
0.01
0

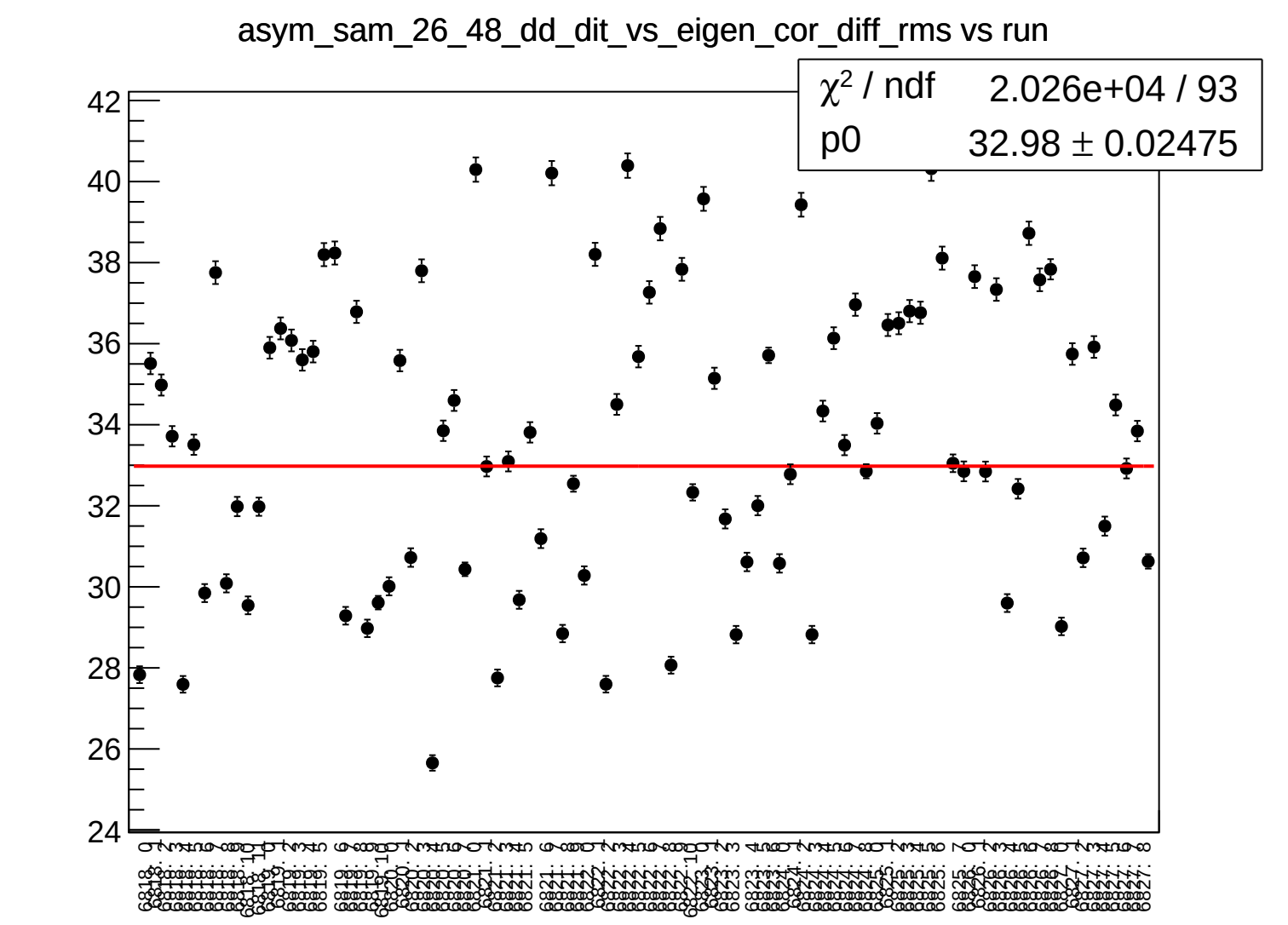

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 93
p0 0.008524 ± 0.03501
pull
Entries 94
Mean 128.6
Std Dev 0

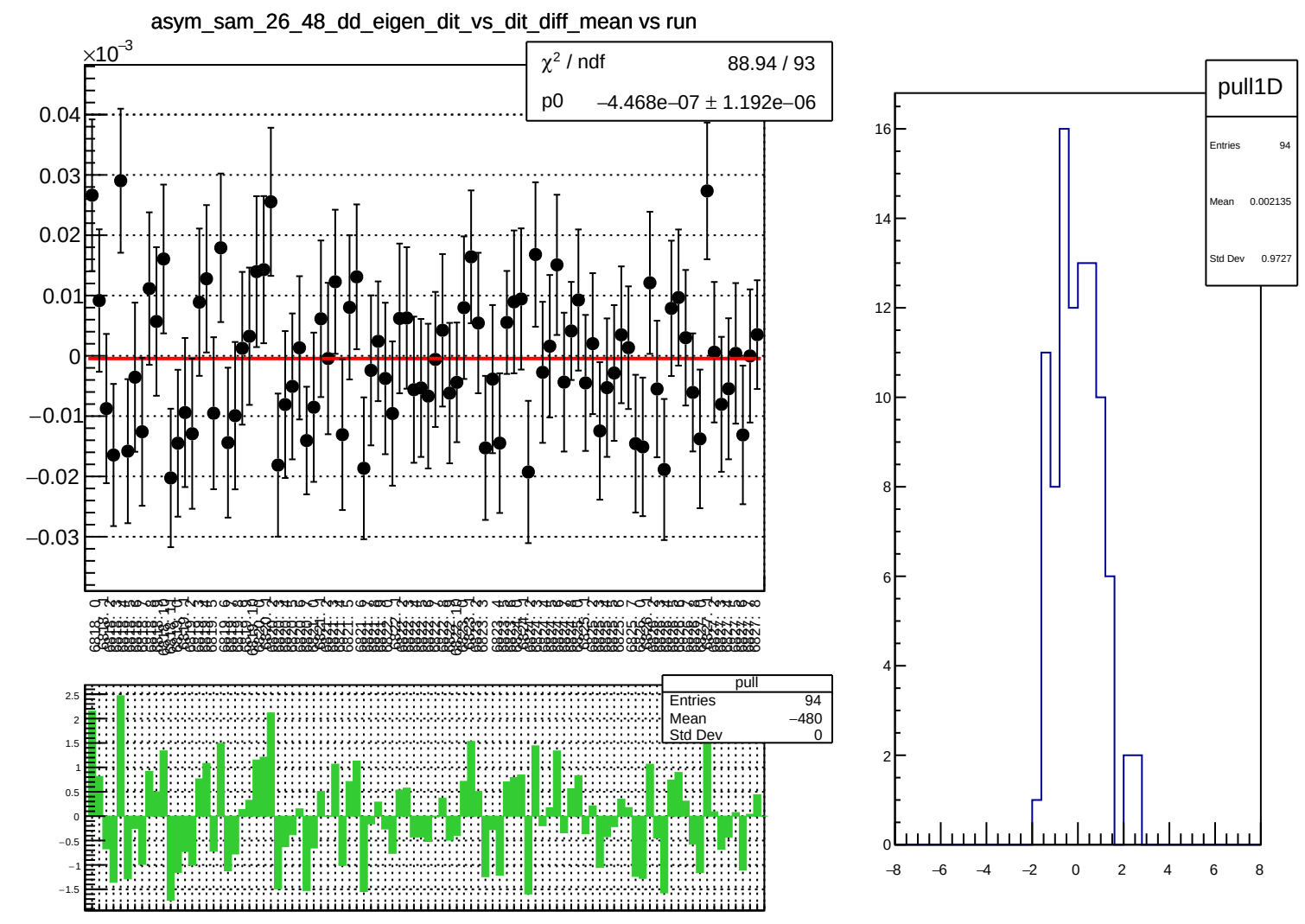

pull1D
Entries 94
Mean −0.02673
Std Dev 1.007

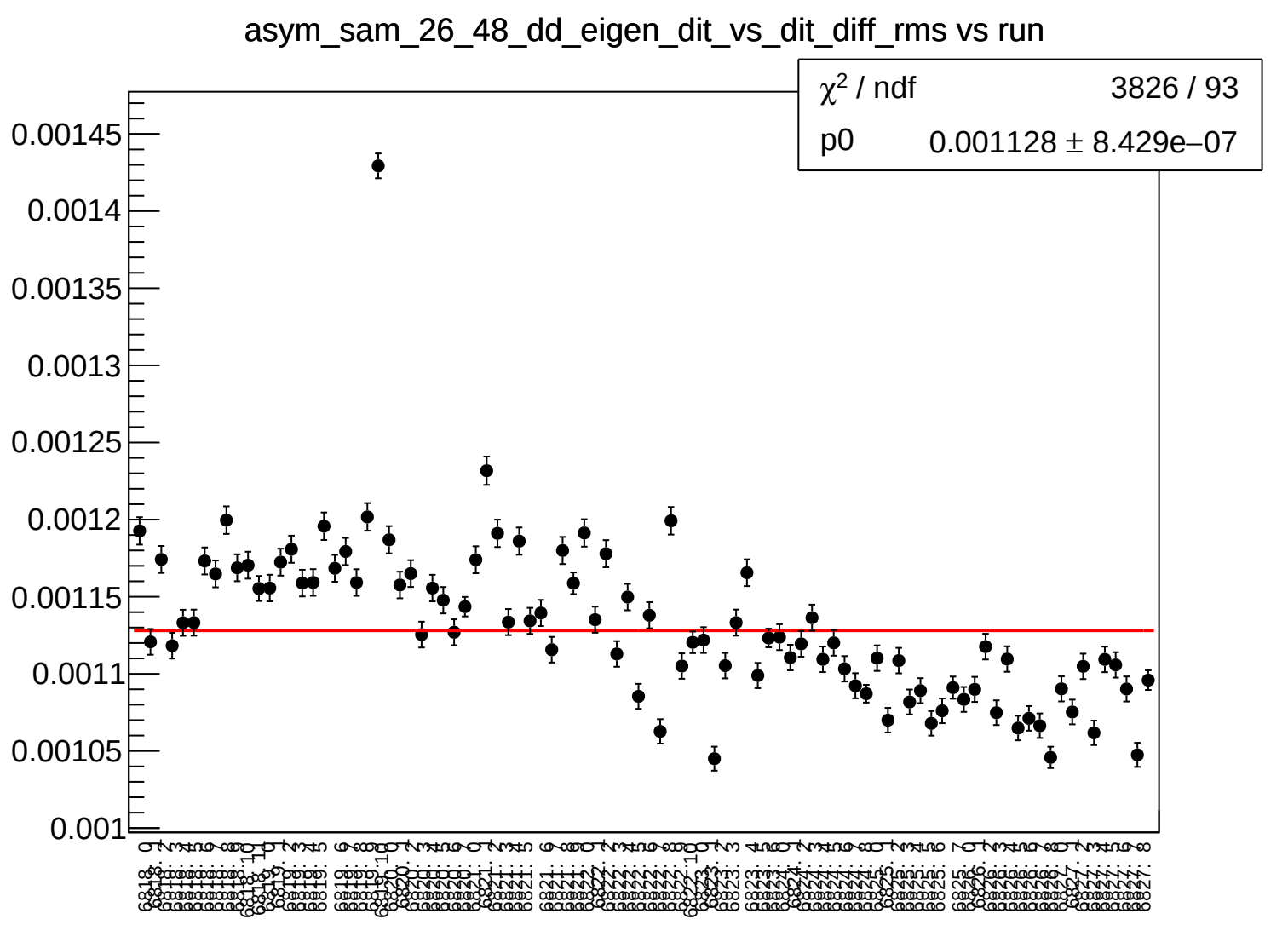

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 93
p0 32.98 ± 0.02475
42
40
38
36
34
32
30
28
26
24

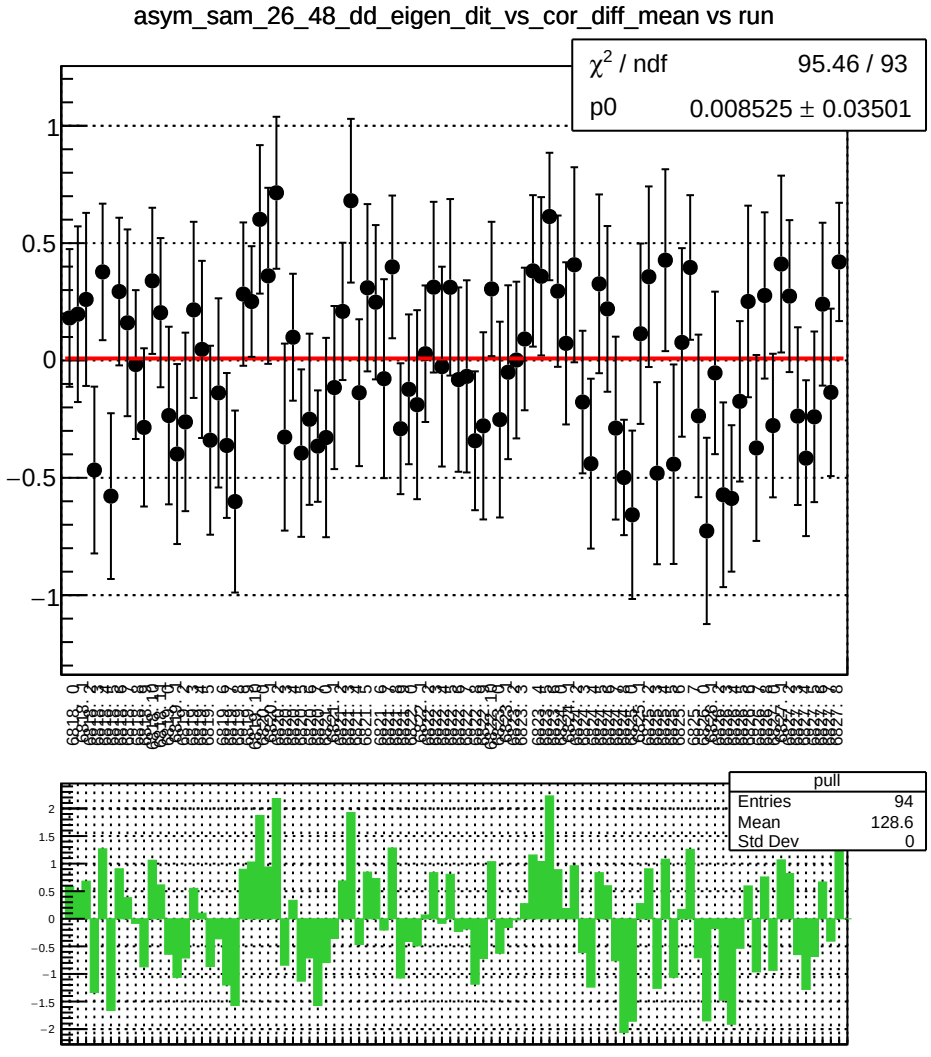

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.46 / 93
p0 0.008524 ± 0.03501
pull
Entries 94
Mean 128.6
Std Dev 0

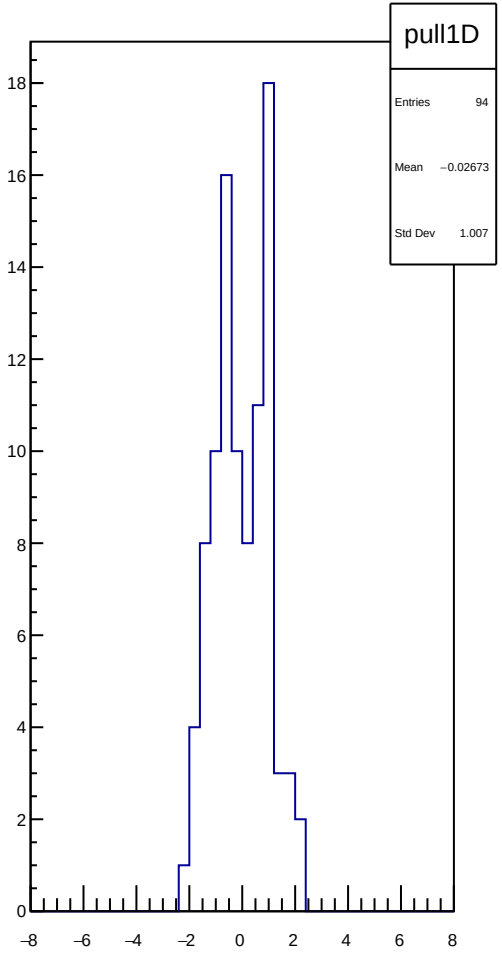

pull1D
Entries 94
Mean −0.02673
Std Dev 1.007

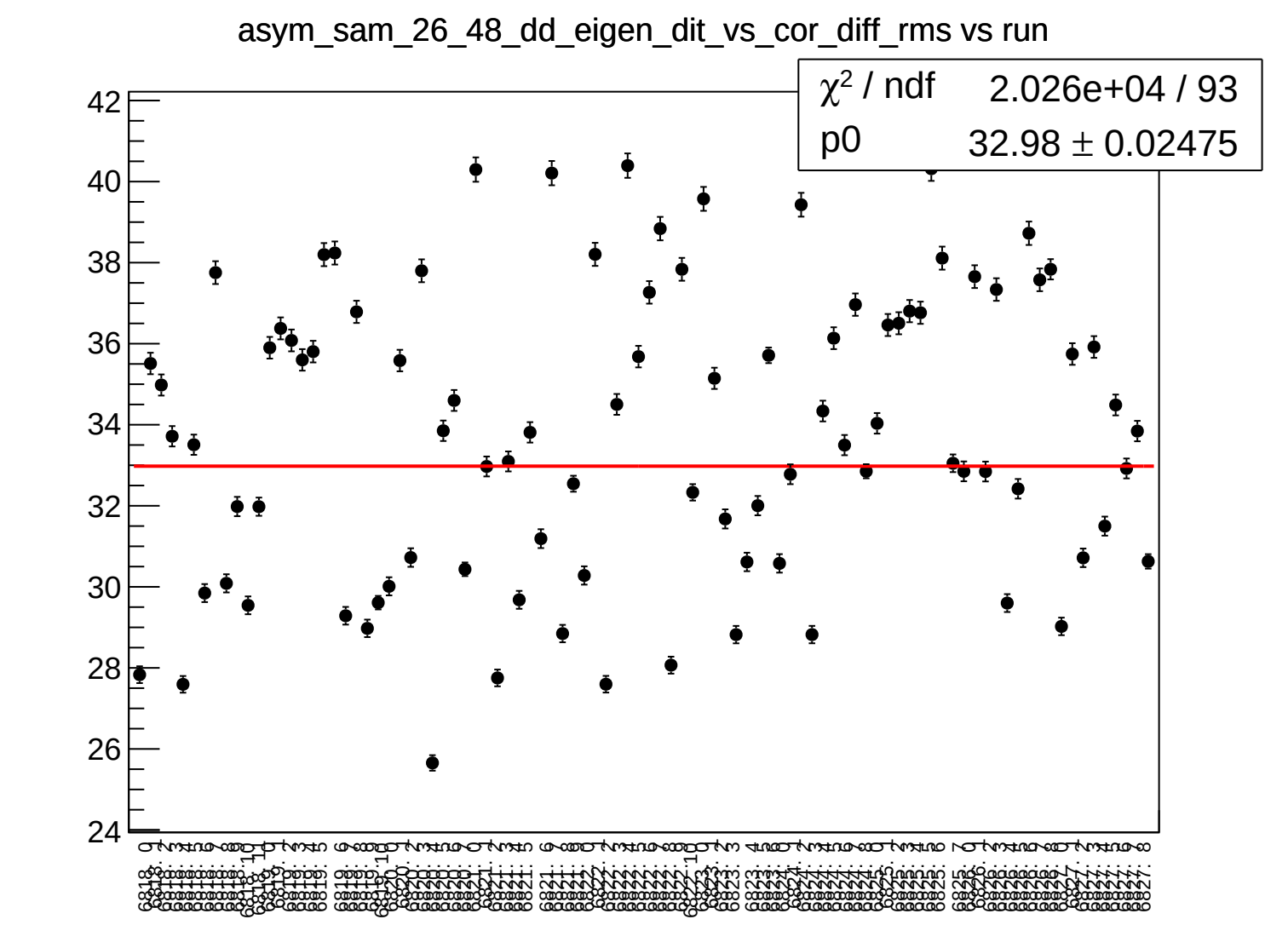

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 93
p0 32.98 ± 0.02475
42
40
38
36
34
32
30
28
26
24

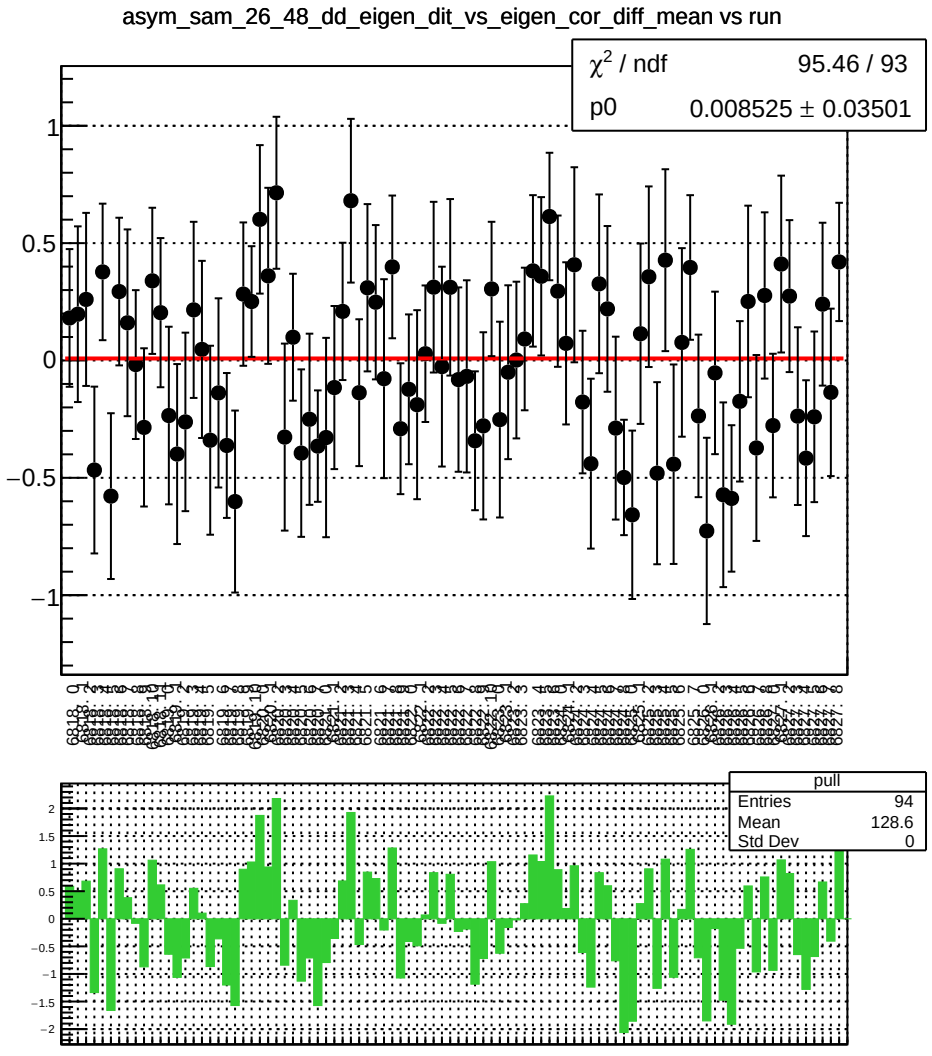

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.94 / 93
p0 −4.468e−07 ± 1.192e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 94
Mean −480
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.002135
Std Dev 0.9727
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

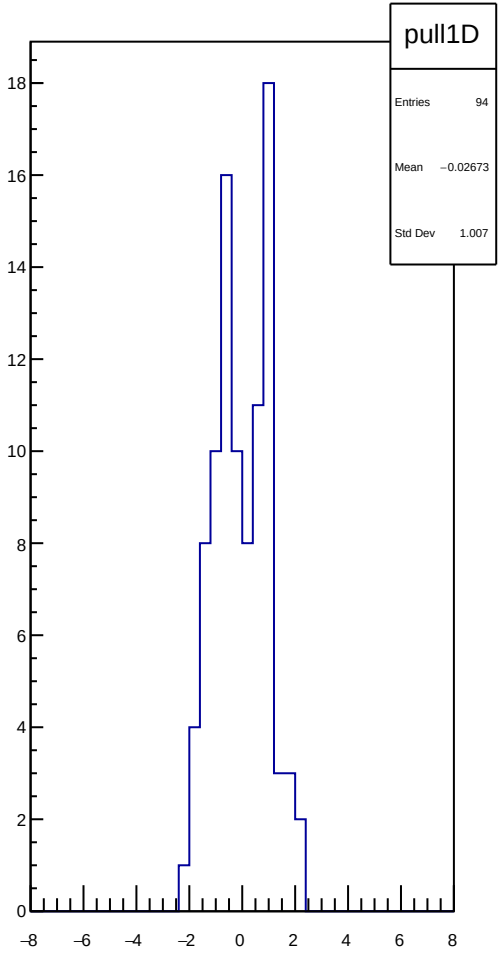

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3826 / 93
p0 0.001128 ± 8.429e−07
0.00145
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001

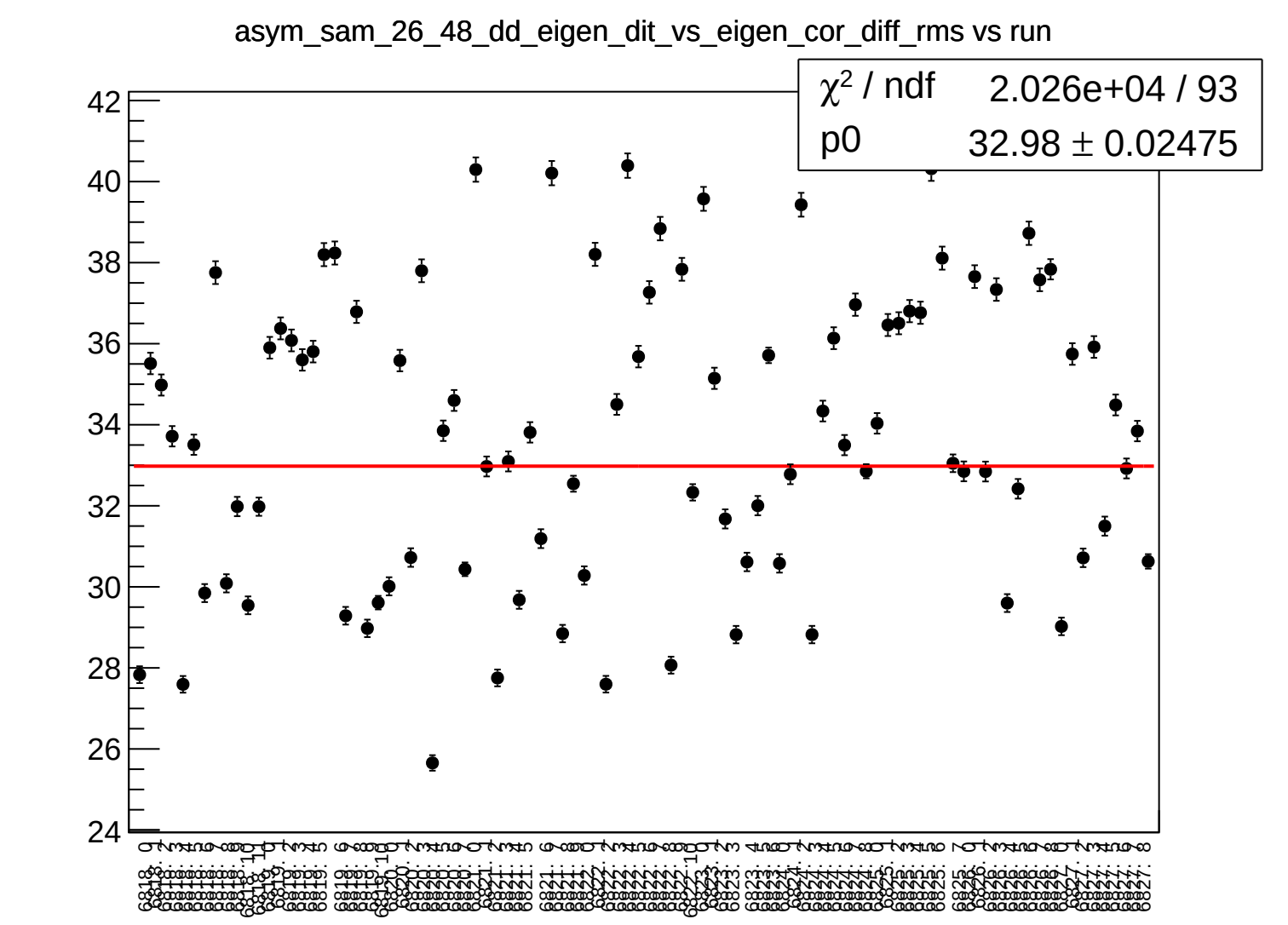

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 93
p0 0.008525 ± 0.03501
pull
Entries 94
Mean 128.6
Std Dev 0

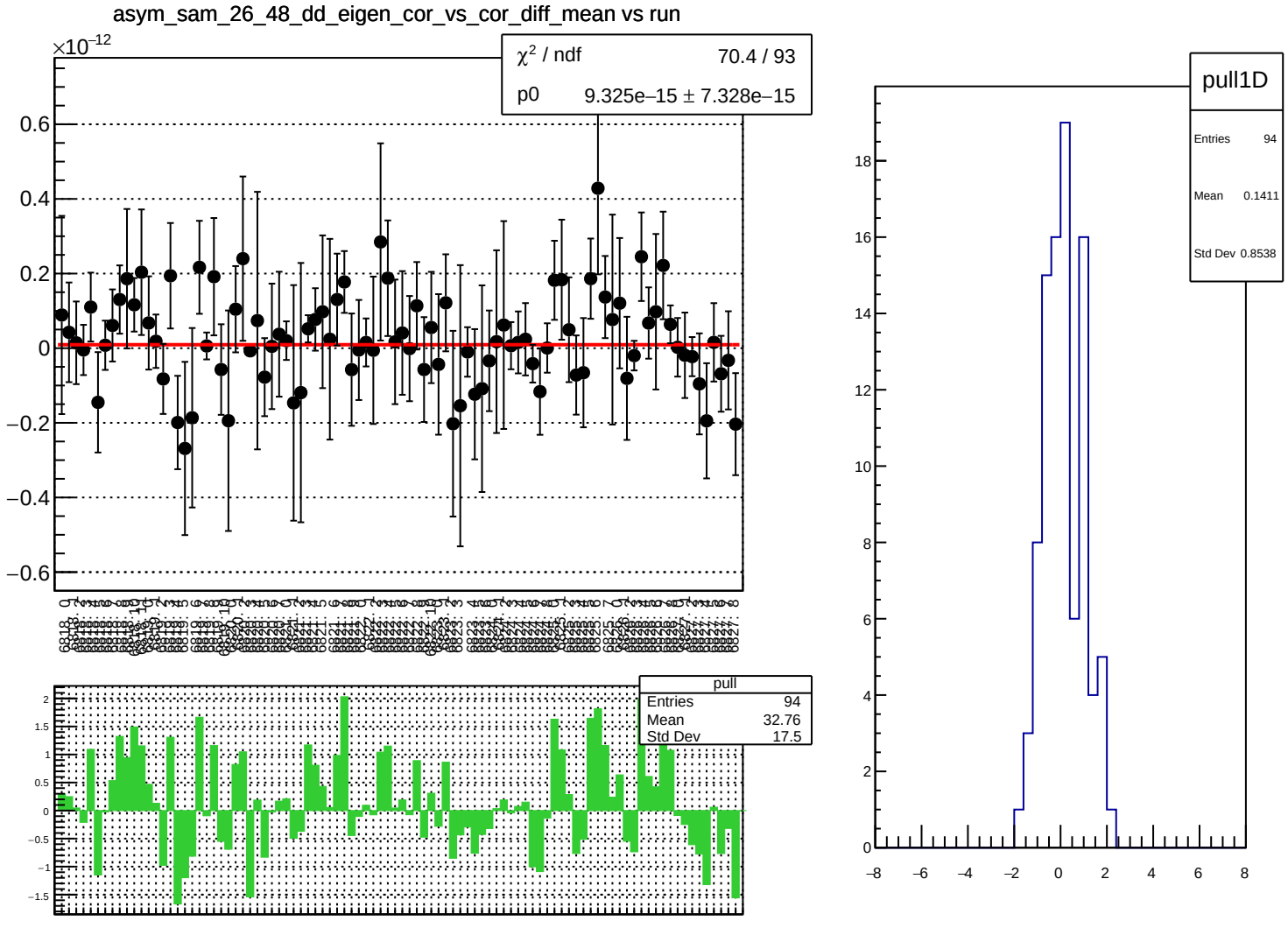

pull1D
Entries 94
Mean −0.02673
Std Dev 1.007

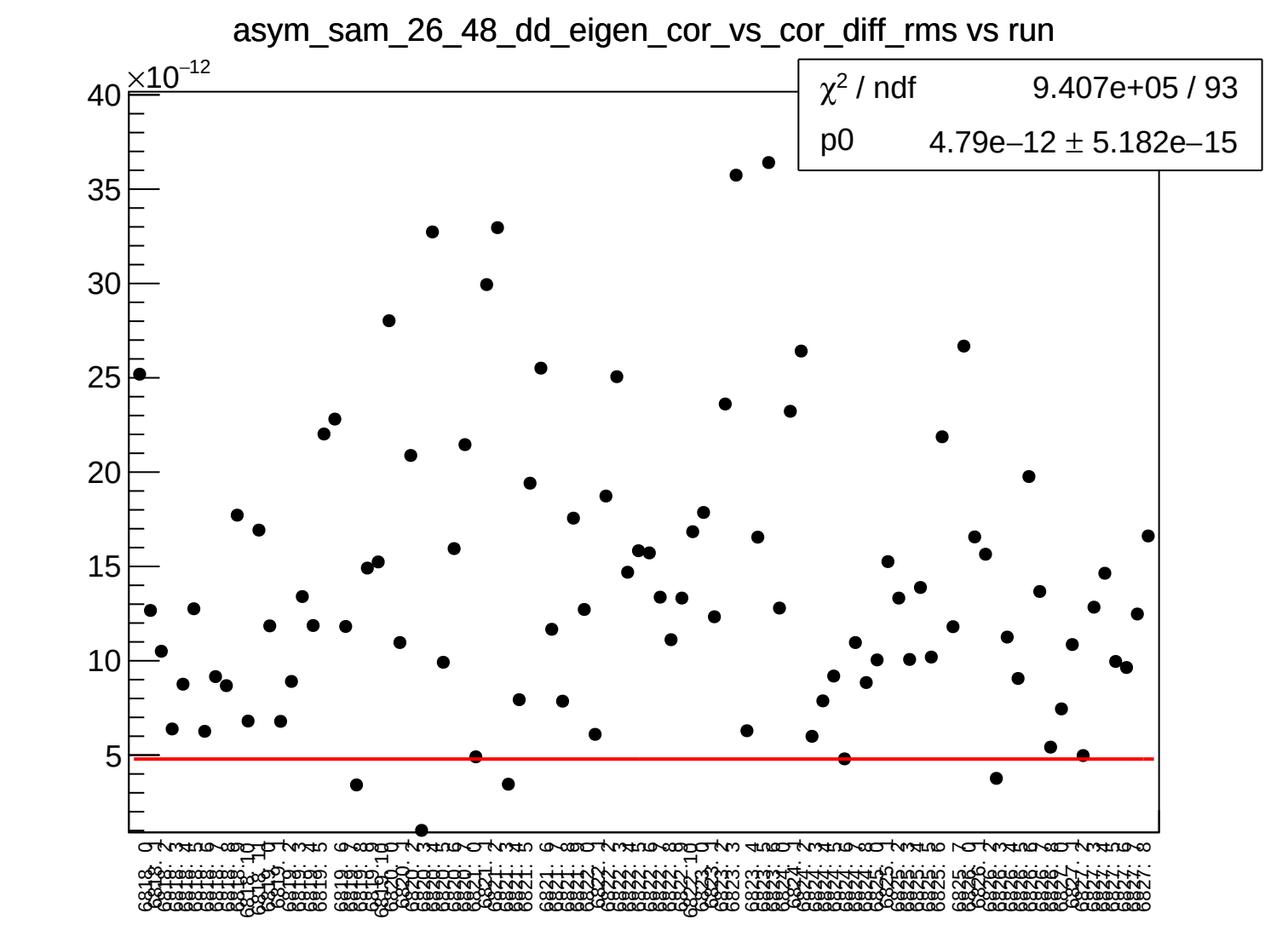

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 93
p0 32.98 ± 0.02475
42
40
38
36
34
32
30
28
26
24

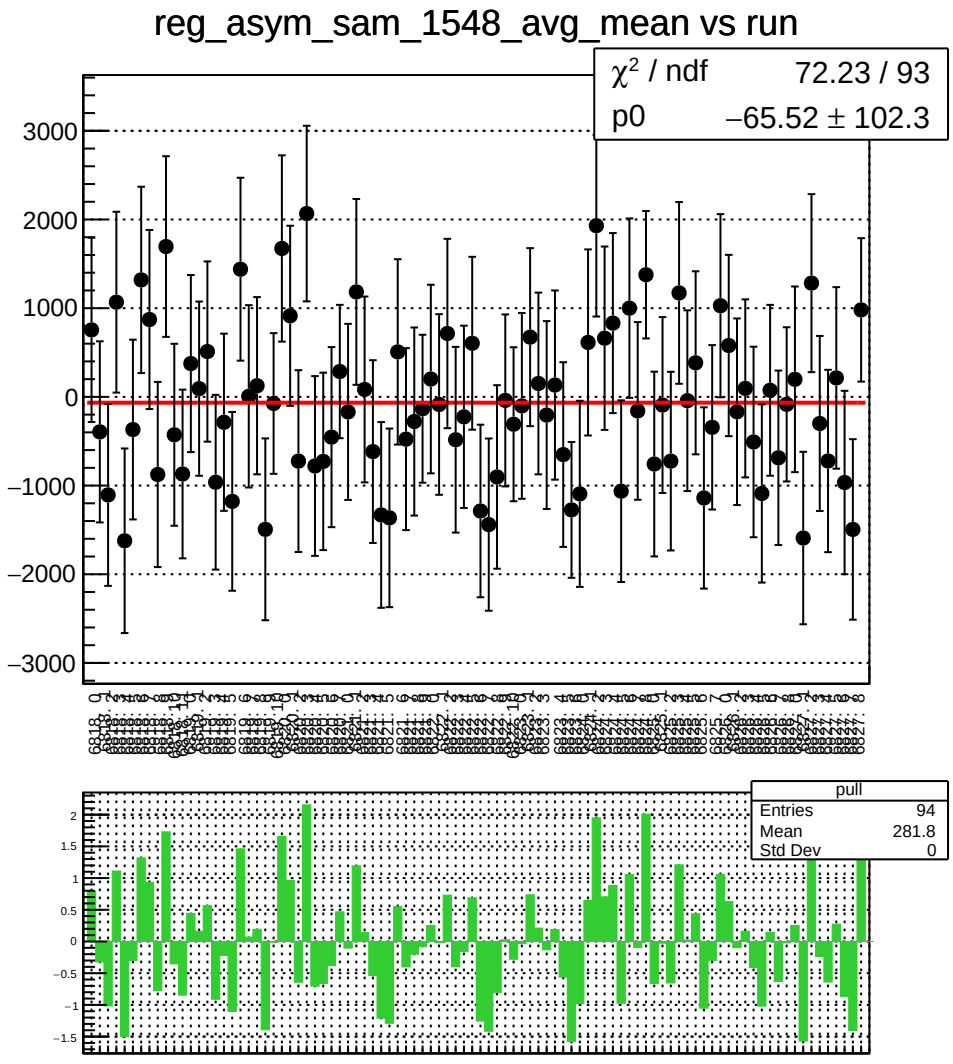

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.46 / 93
p0 0.008525 ± 0.03501
pull
Entries 94
Mean 128.6
Std Dev 0

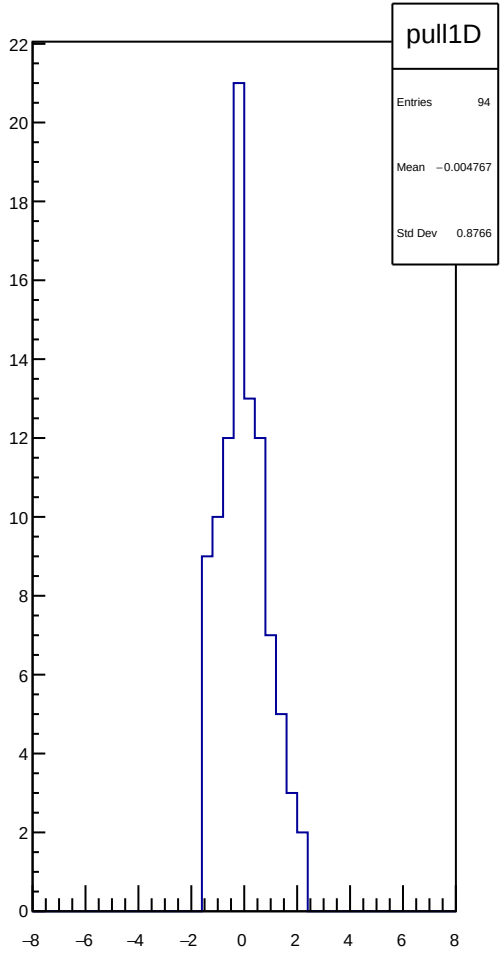

pull1D
Entries 94
Mean −0.02673
Std Dev 1.007

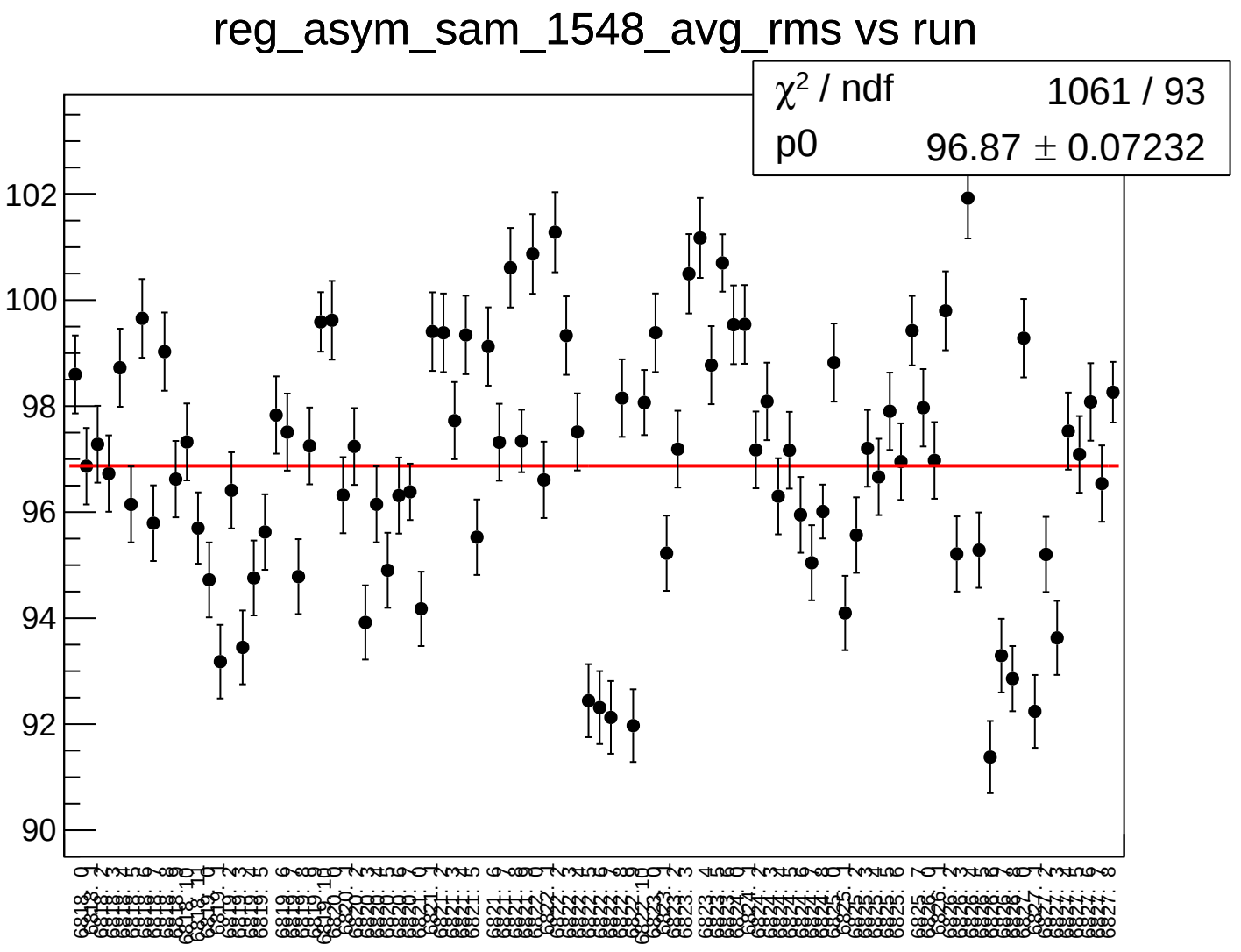

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.026e+04 / 93
p0 32.98 ± 0.02475
42
40
38
36
34
32
30
28
26
24

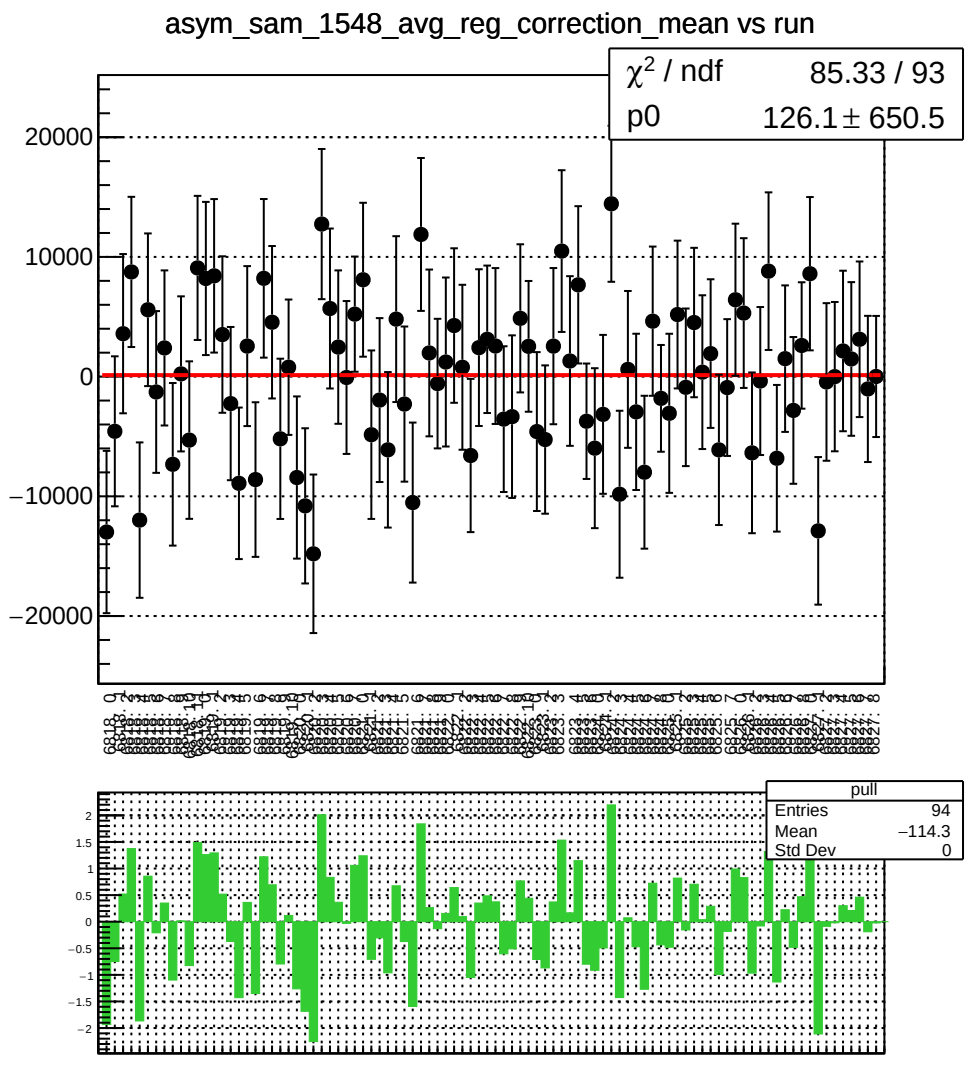

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.4 / 93
p0 9.325e−15 ± 7.328e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 94
Mean 32.76
Std Dev 17.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.1411
Std Dev 0.8538
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

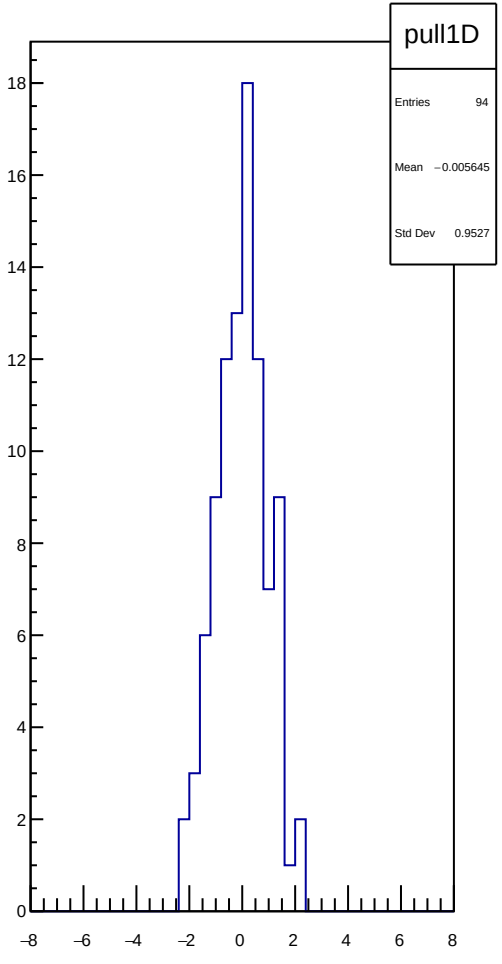

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 9.407e+05 / 93
p0 4.79e−12 ± 5.182e−15

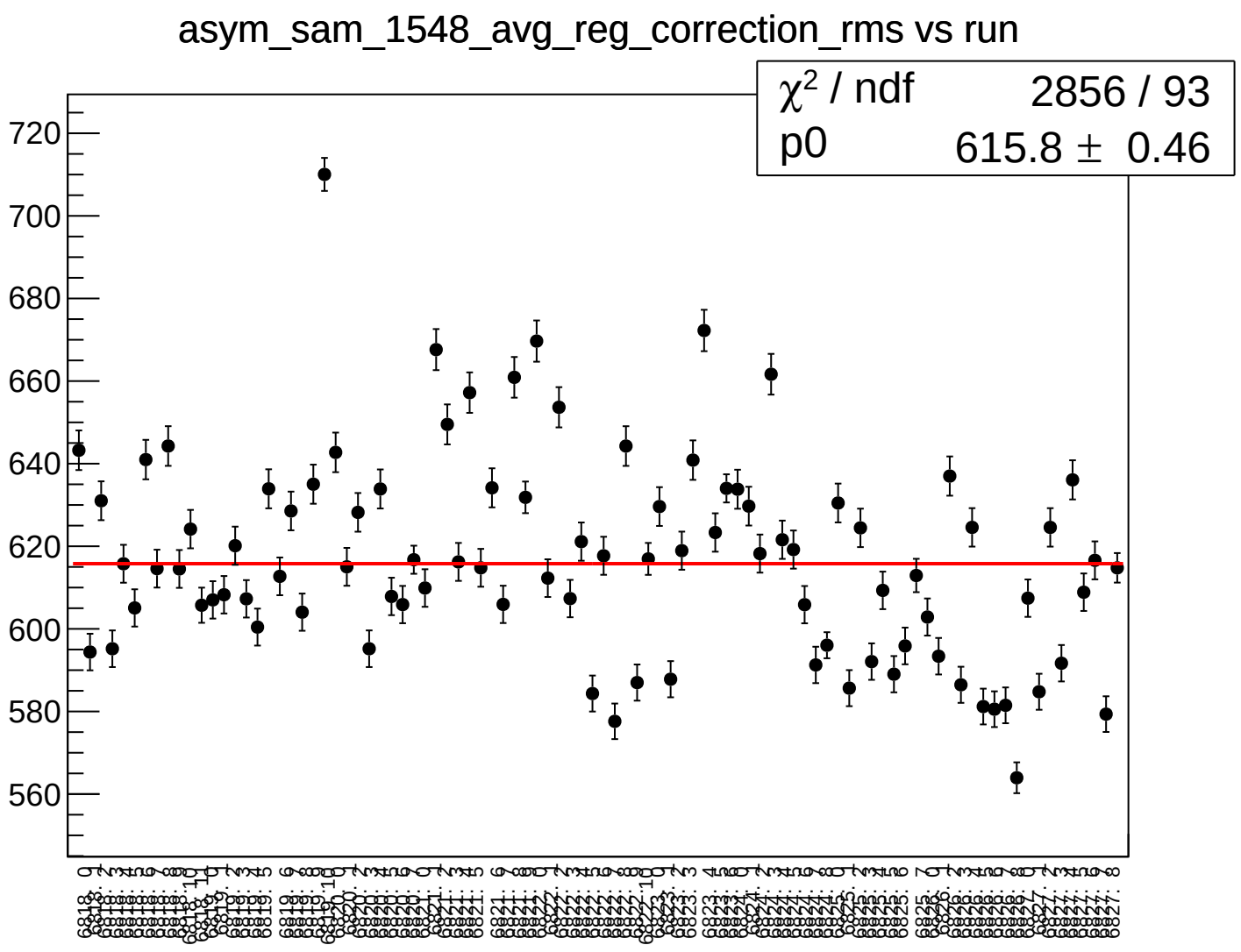

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 72.23 / 93
p0 −65.52 ± 102.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 281.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

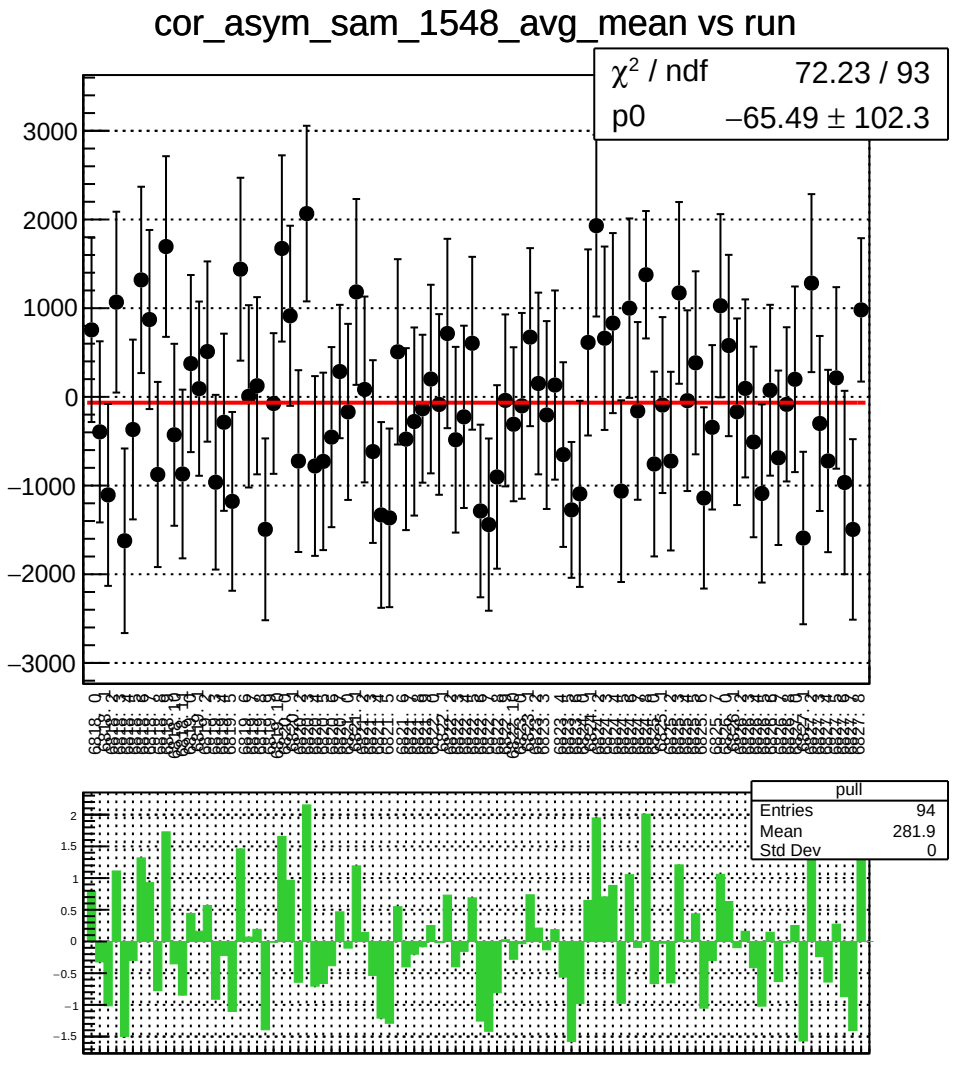

pull1D
Entries 94
Mean −0.004767
Std Dev 0.8766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

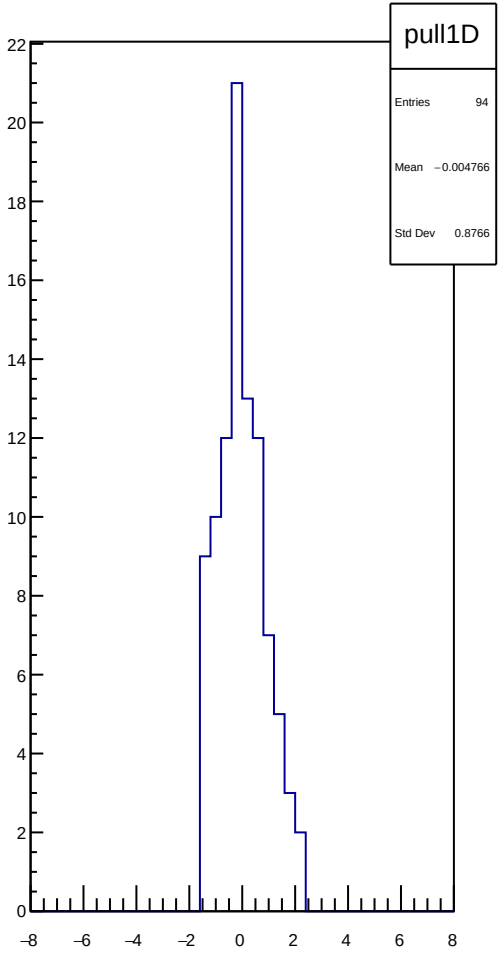

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1061 / 93
p0 96.87 ± 0.07232
102
100
98
96
94
92
90

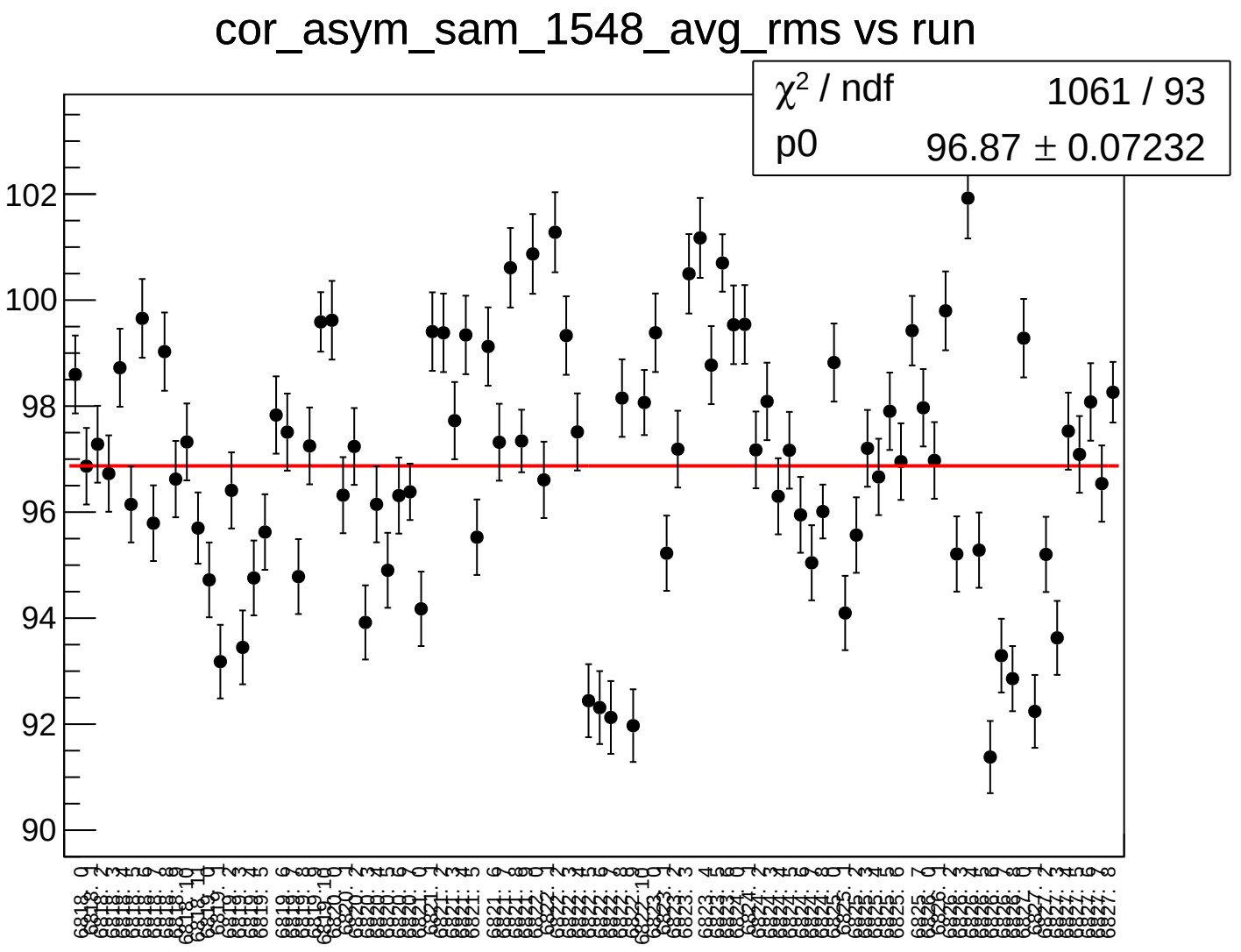

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 85.33 / 93
p0 126.1 ± 650.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −114.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

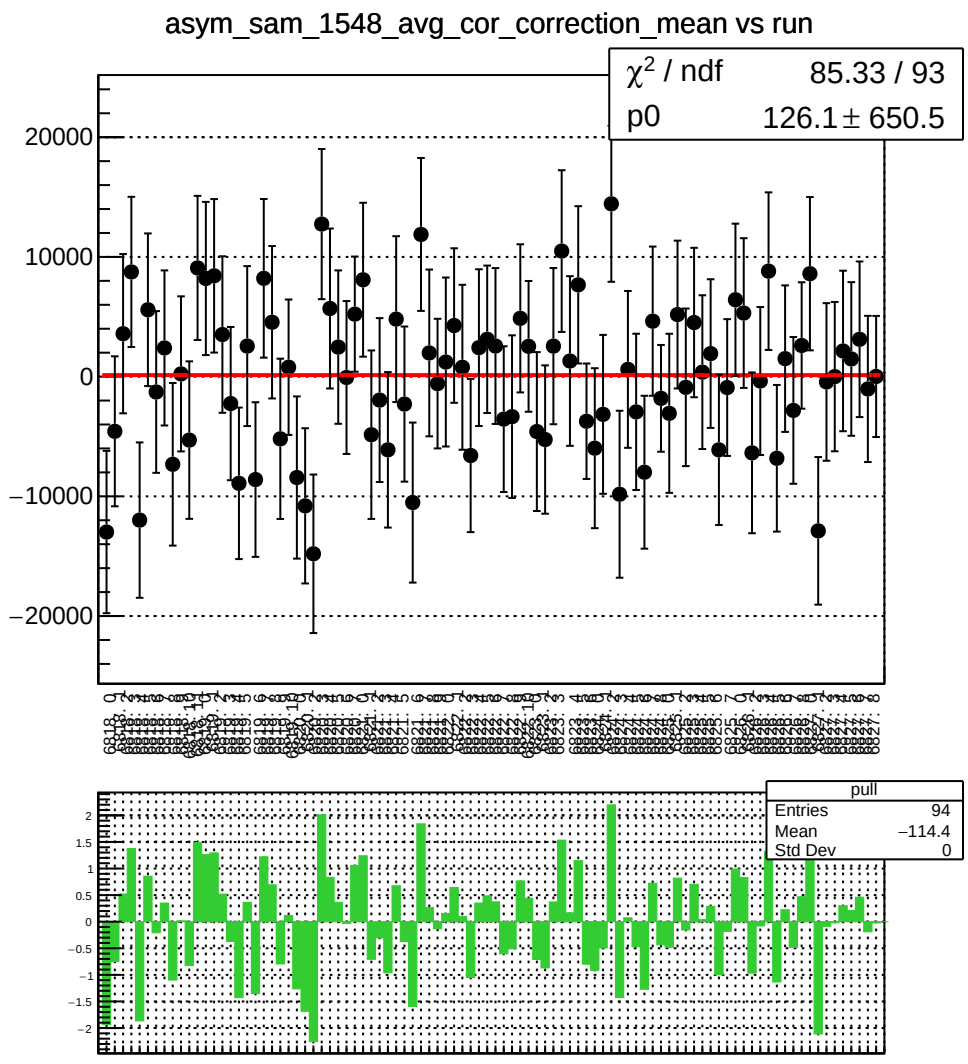

pull1D
Entries 94
Mean −0.005645
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

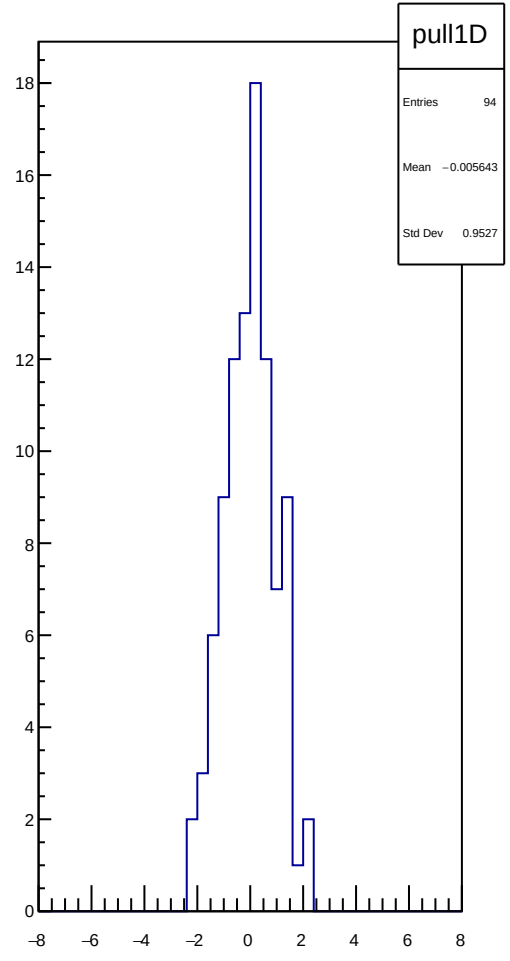

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 2856 / 93
p0 615.8 ± 0.46
720
700
680
660
640
620
600
580
560

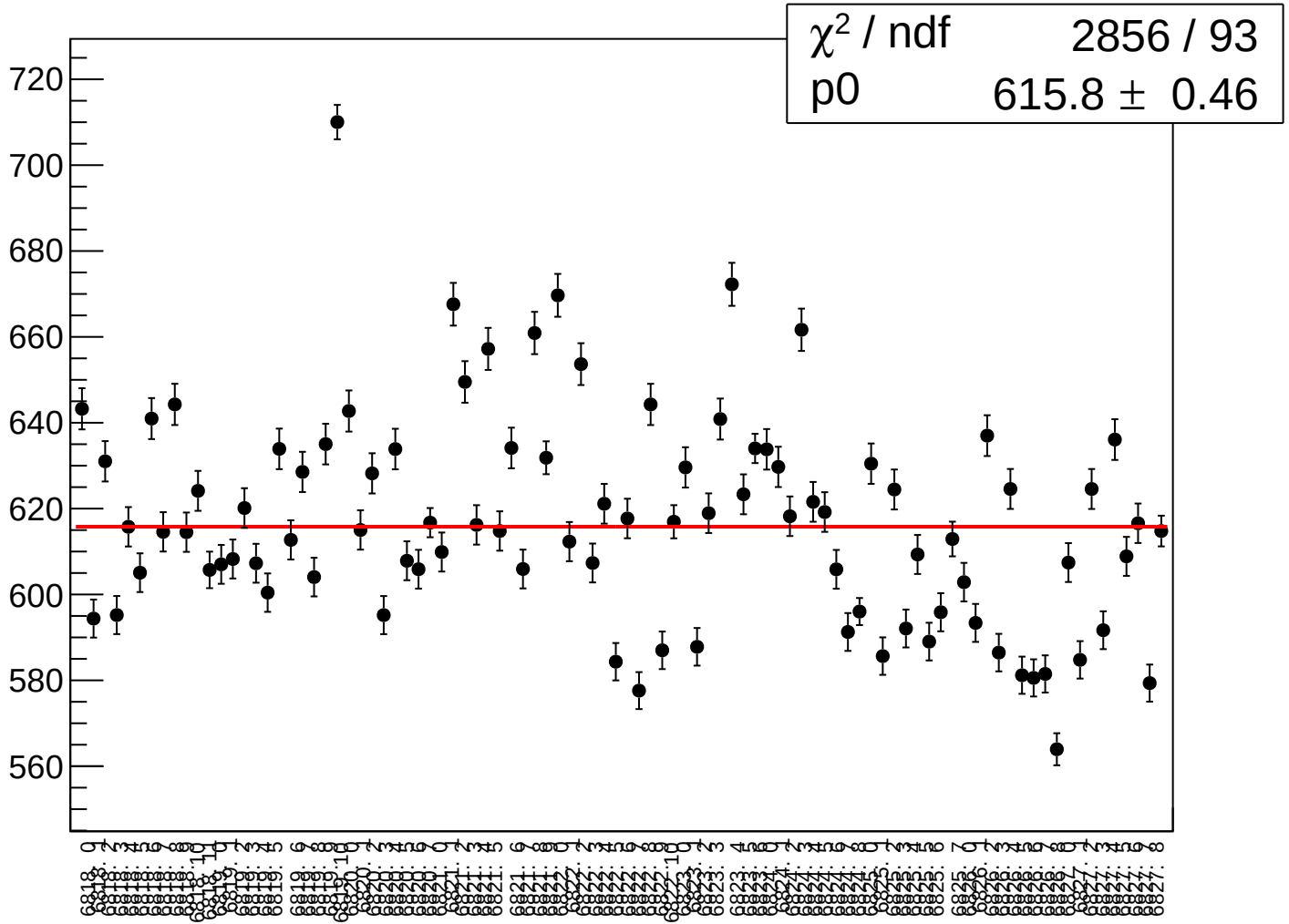

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 72.23 / 93
p0 −65.49 ± 102.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 281.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

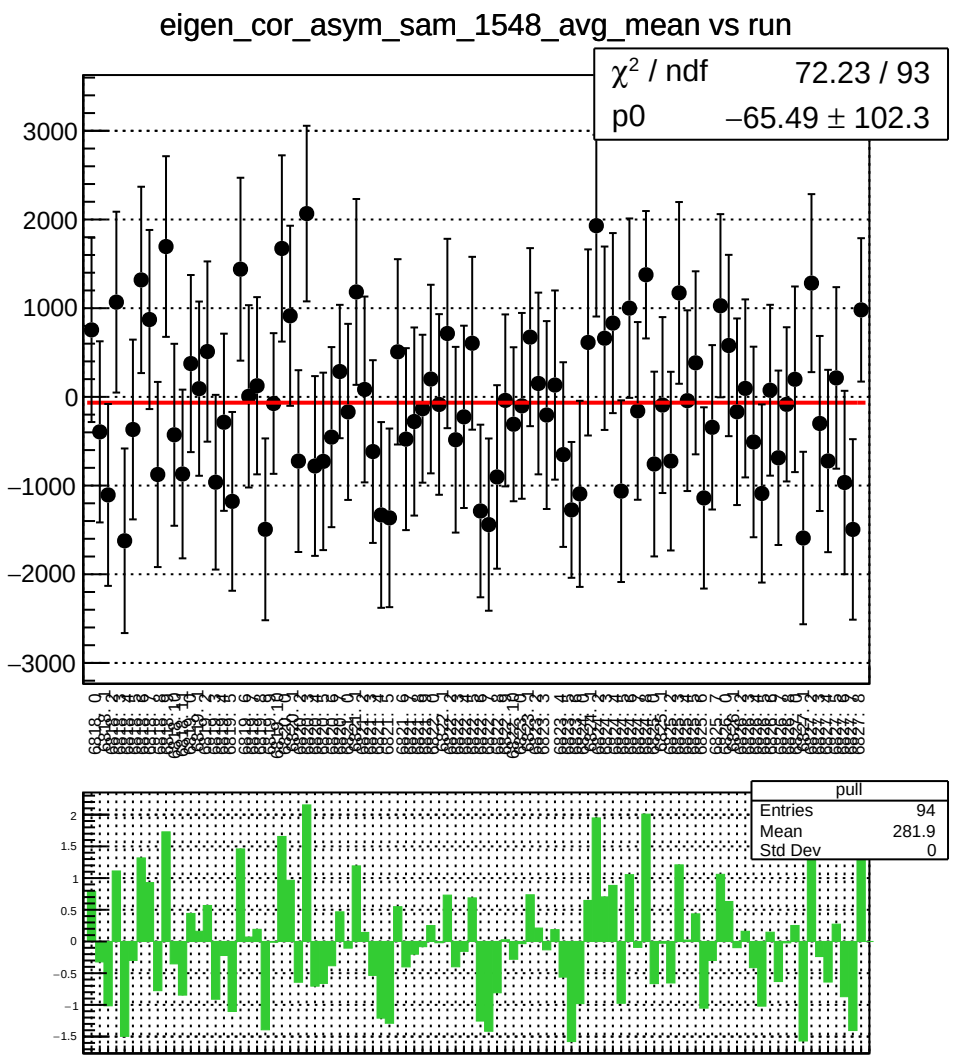

pull1D
Entries 94
Mean −0.004766
Std Dev 0.8766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

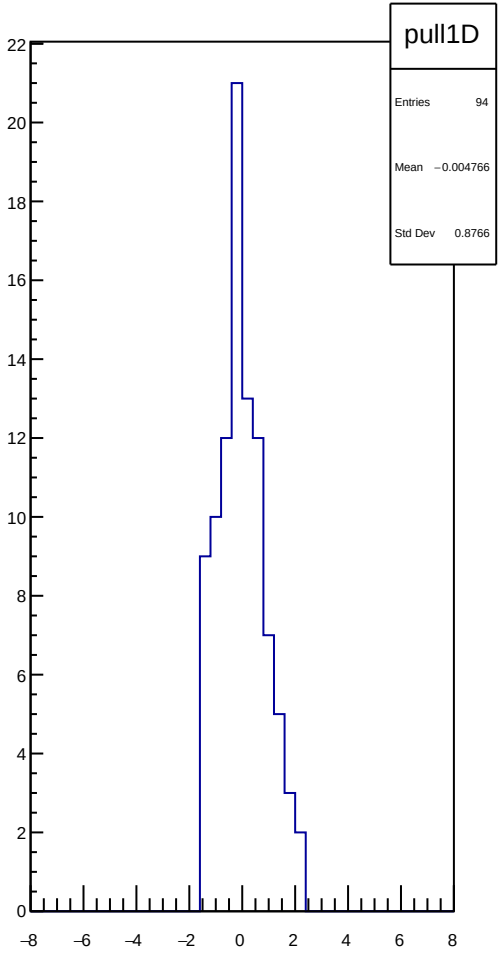

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1061 / 93
p0 96.87 ± 0.07232
102
100
98
96
94
92
90

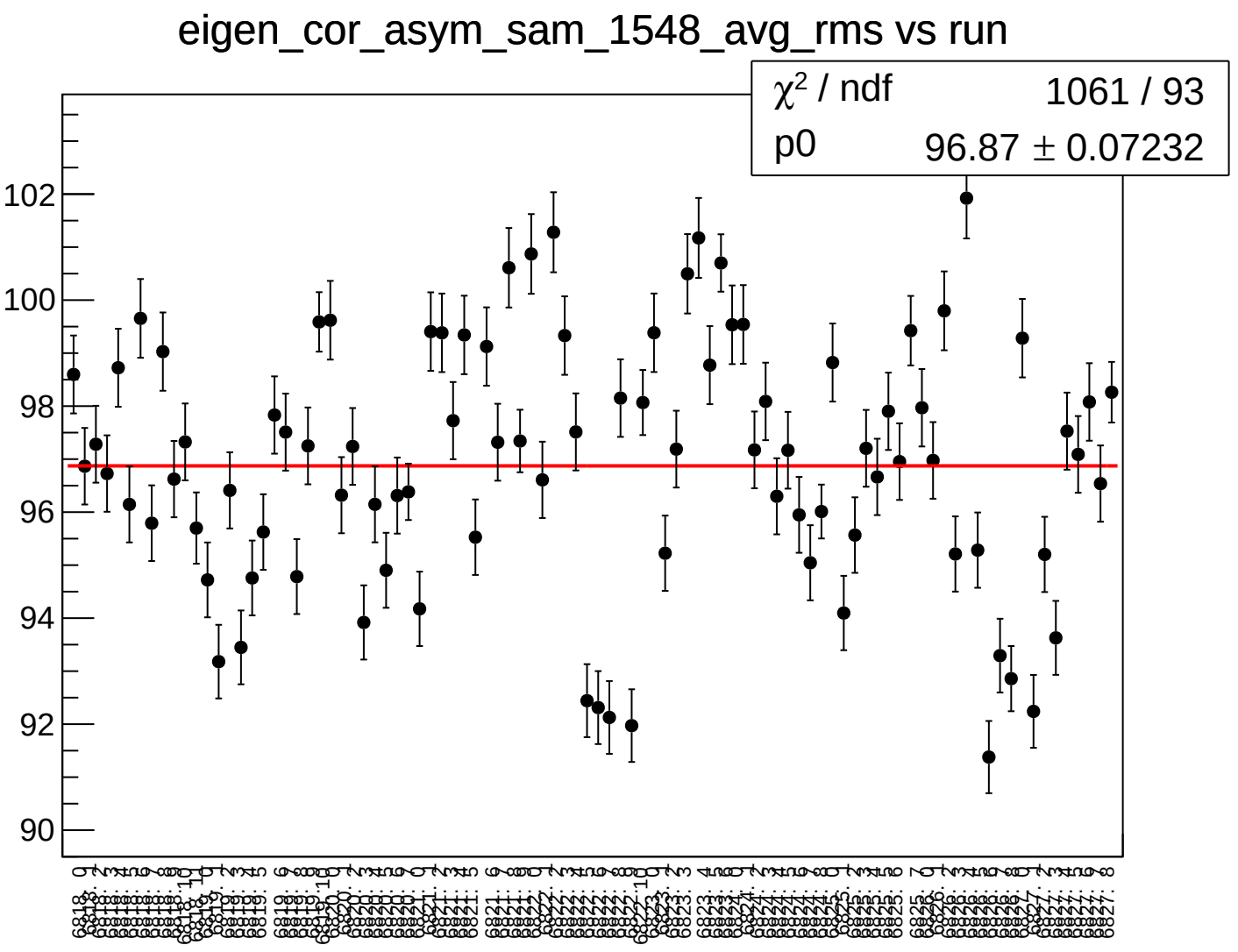

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 85.33 / 93
p0 126.1 ± 650.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

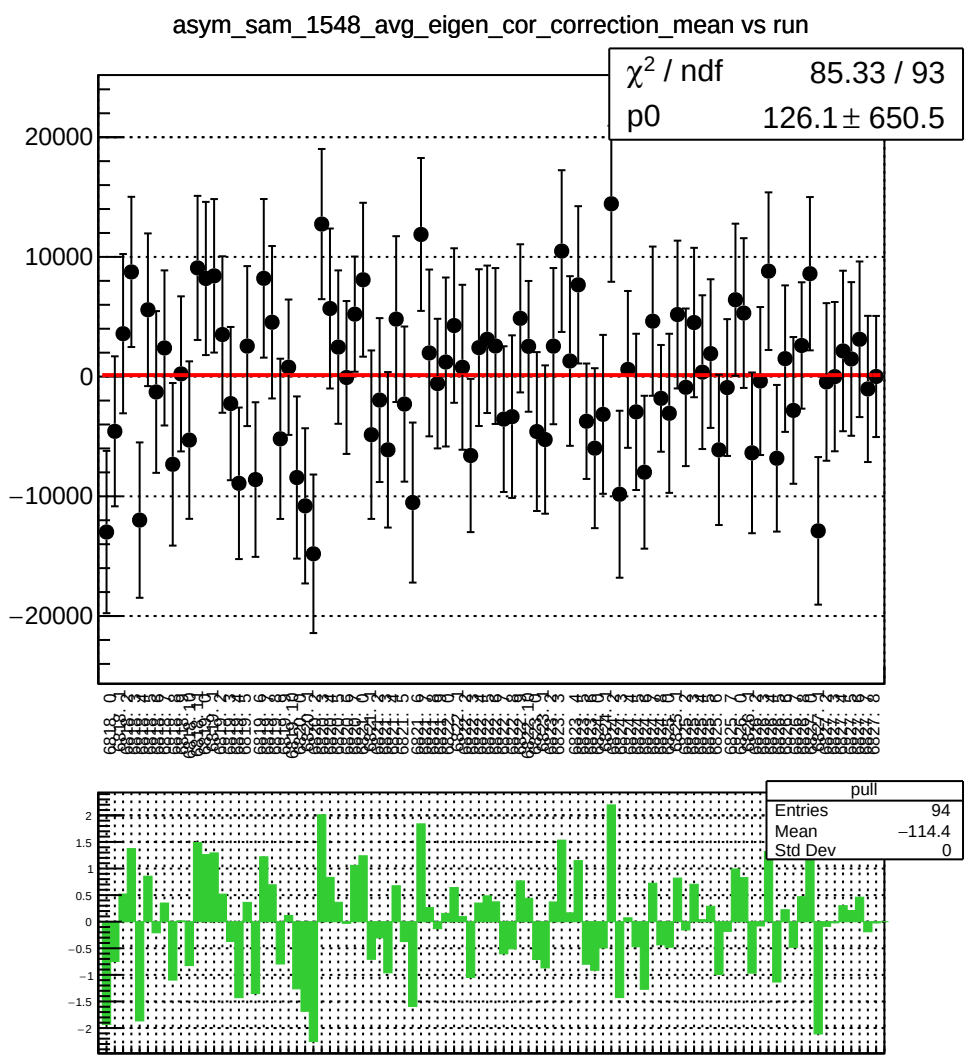

pull1D
Entries 94
Mean −0.005643
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

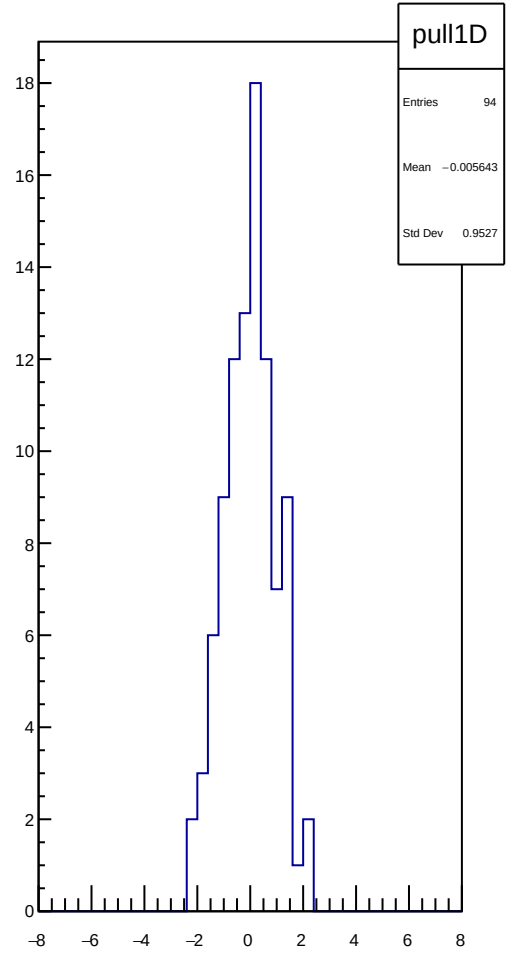

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 2856 / 93
p0 615.8 ± 0.46
720
700
680
660
640
620
600
580
560

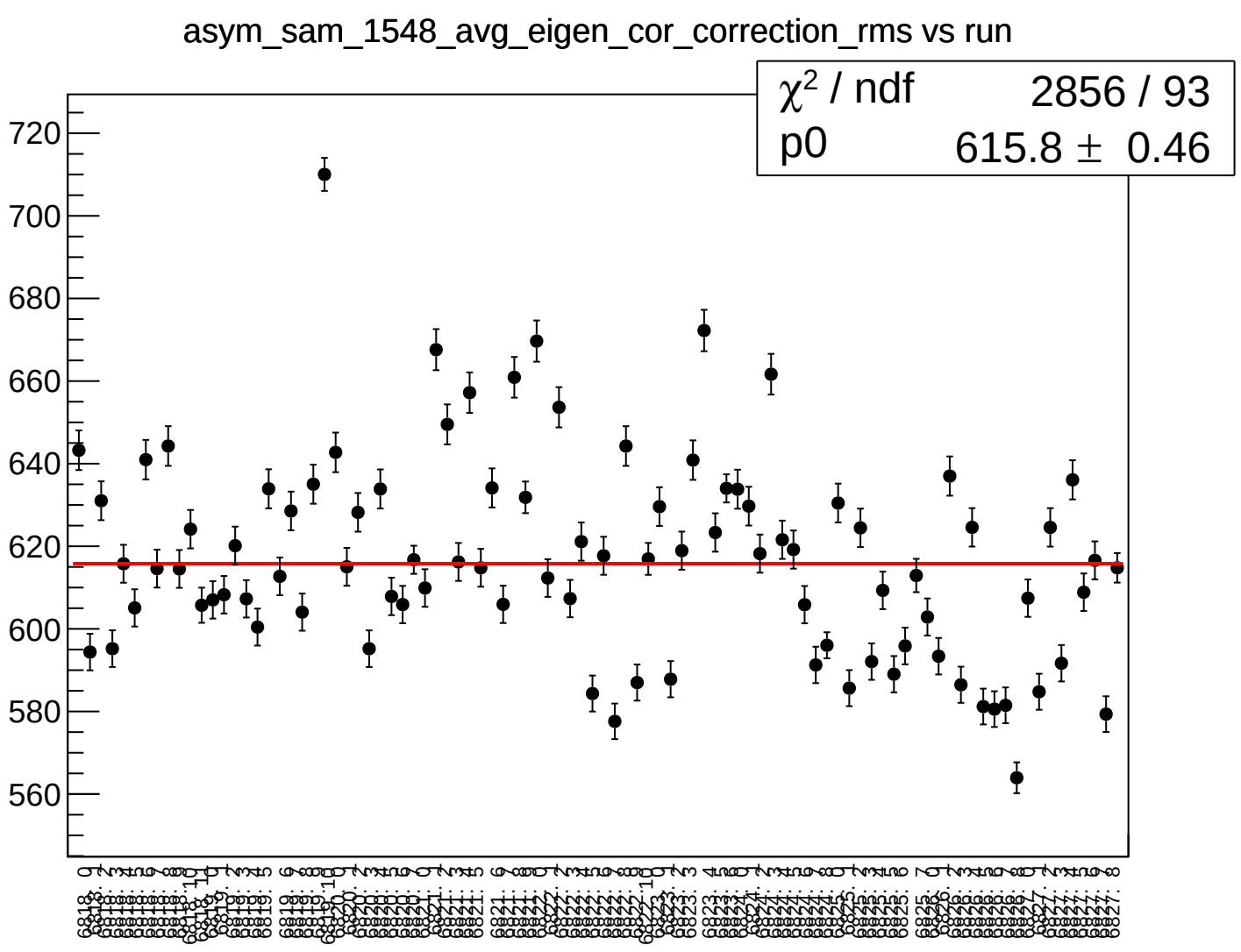

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 72.23 / 93
p0 −65.49 ± 102.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 281.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

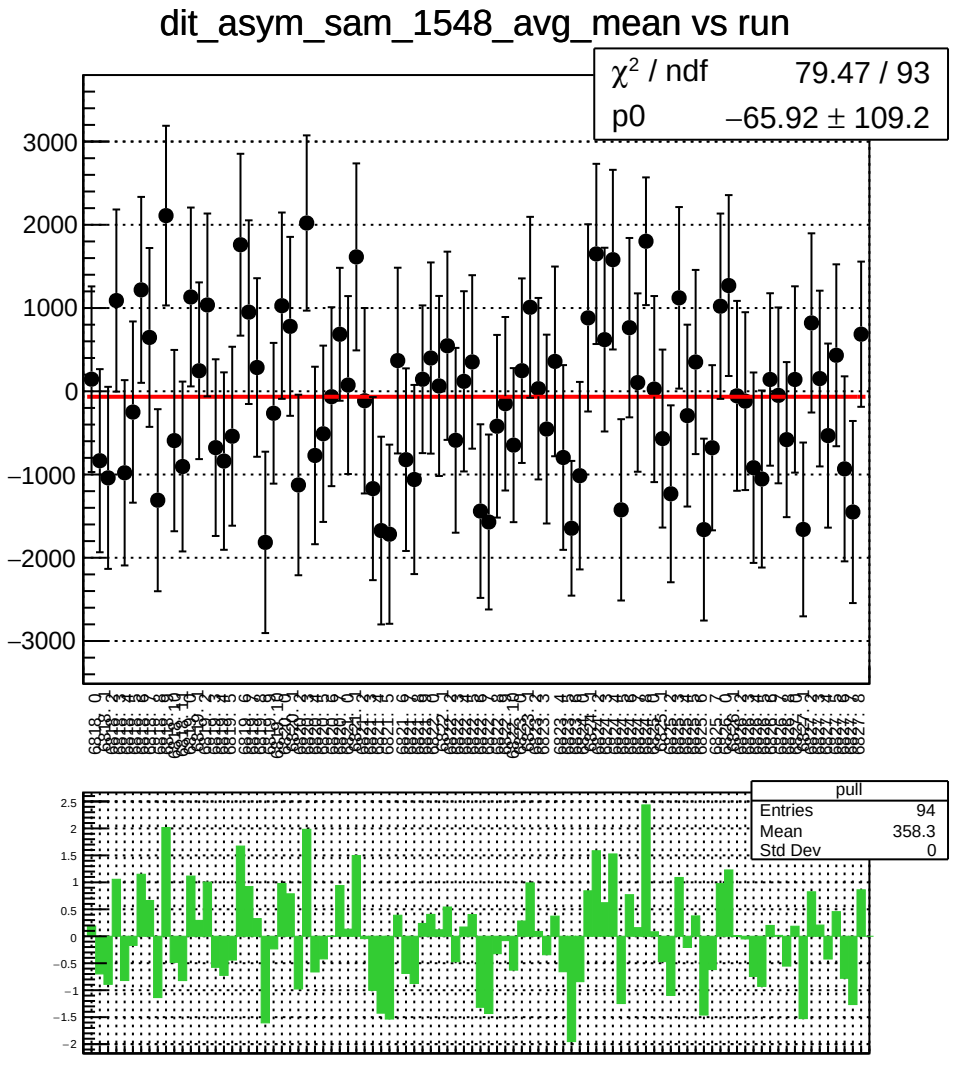

pull1D
Entries 94
Mean −0.004766
Std Dev 0.8766
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

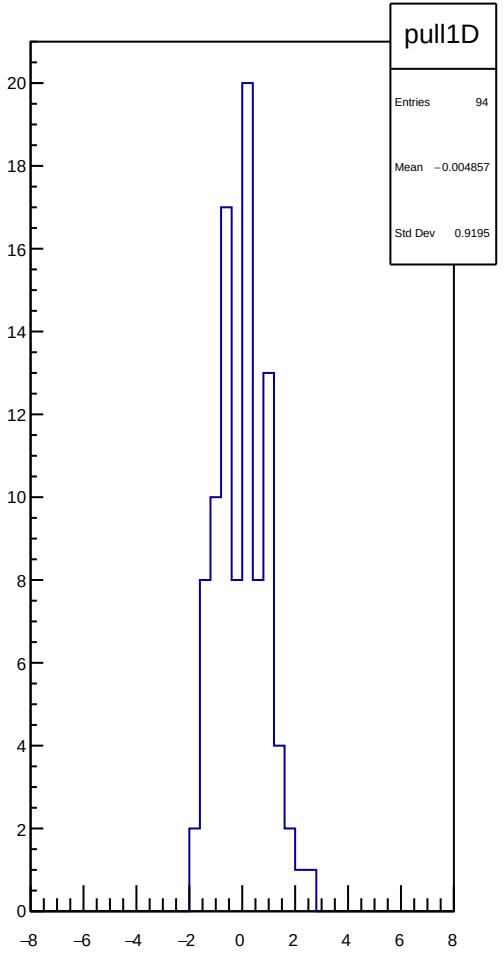

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 1061 / 93
p0 96.87 ± 0.07232
102
100
98
96
94
92
90

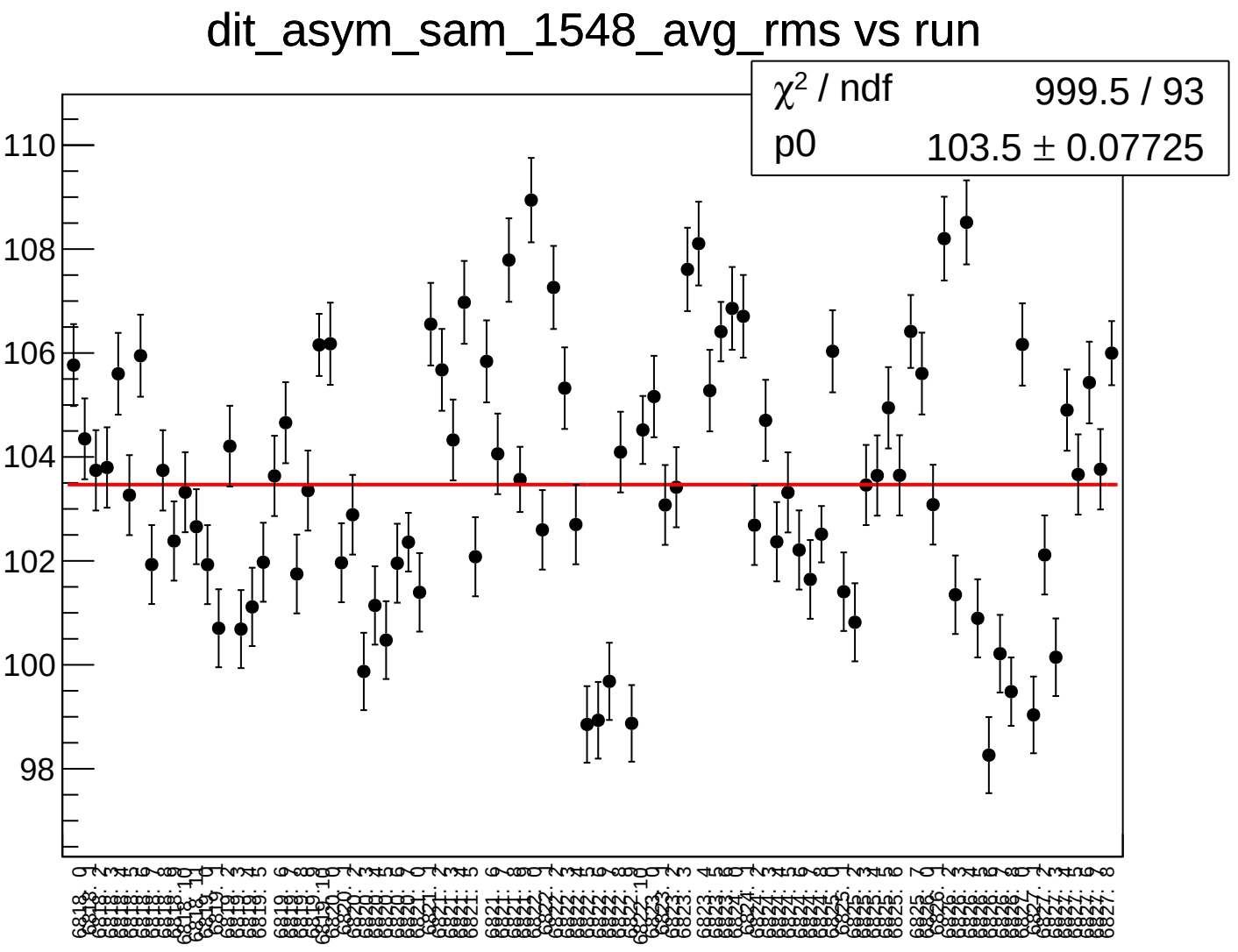

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.33 / 93
p0 126.1 ± 650.5
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −114.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

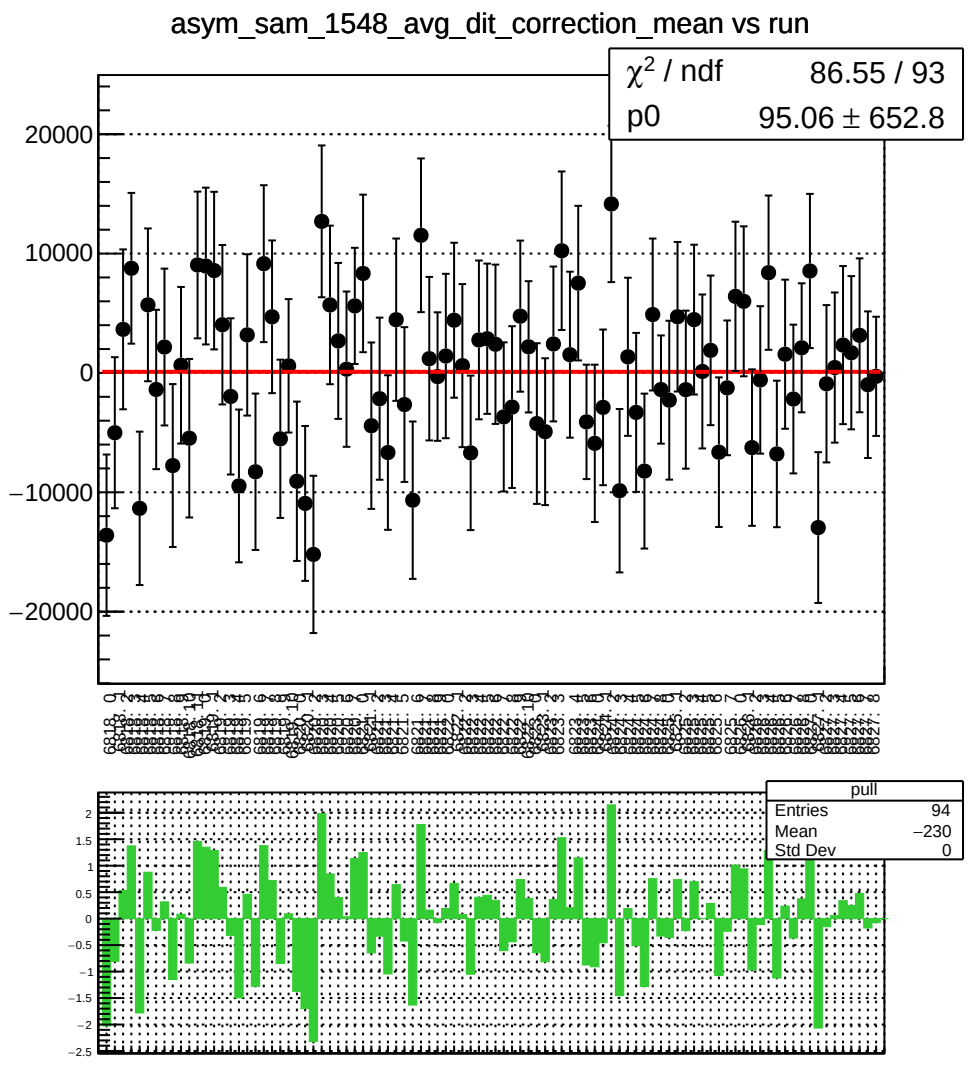

pull1D
Entries 94
Mean −0.005643
Std Dev 0.9527
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

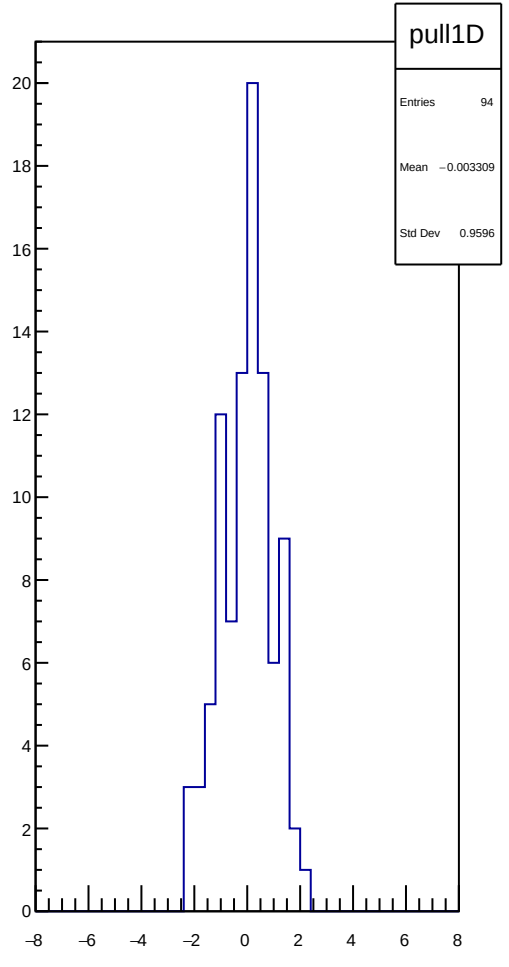

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 2856 / 93
p0 615.8 ± 0.46
720
700
680
660
640
620
600
580
560

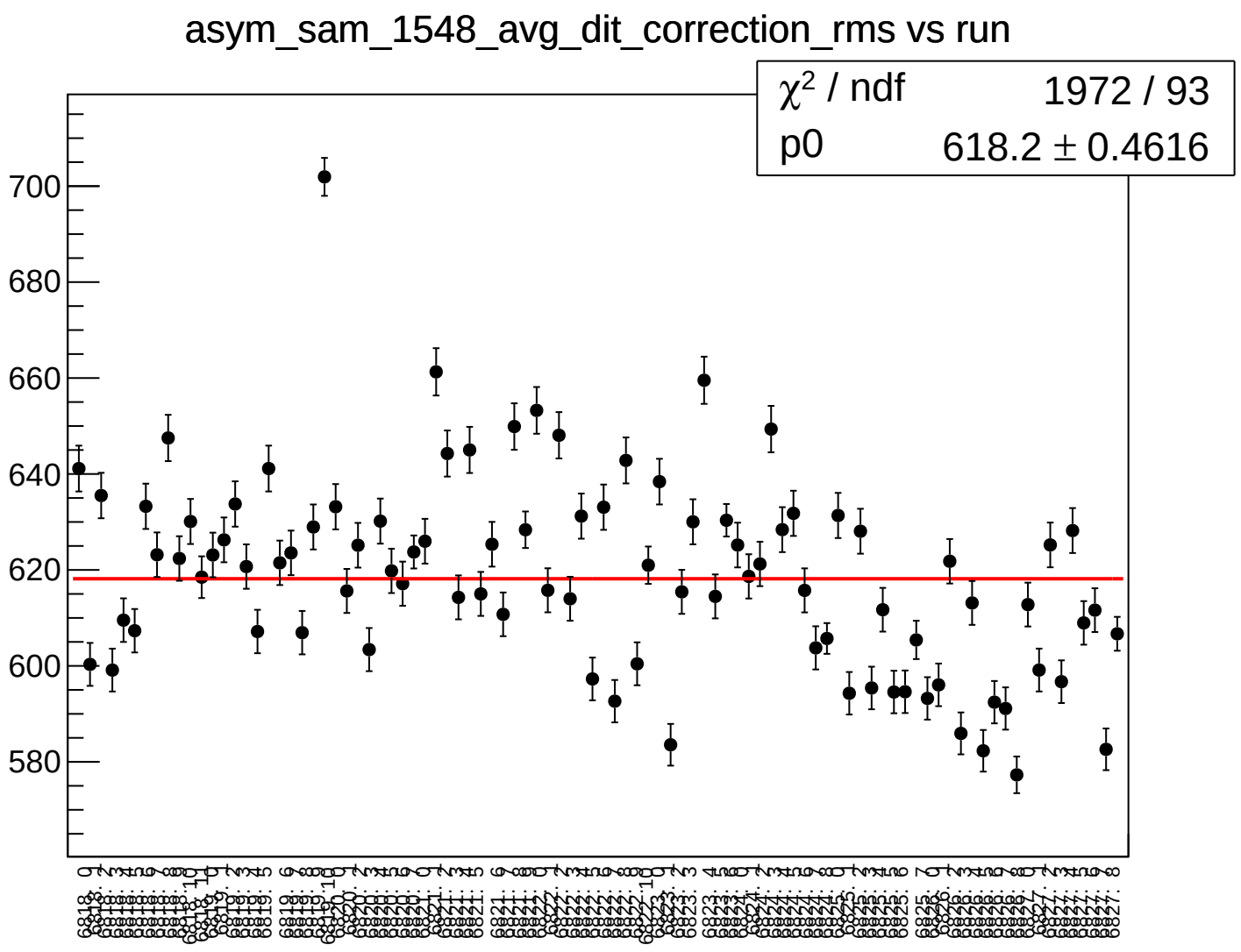

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 79.47 / 93
p0 −65.92 ± 109.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 358.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

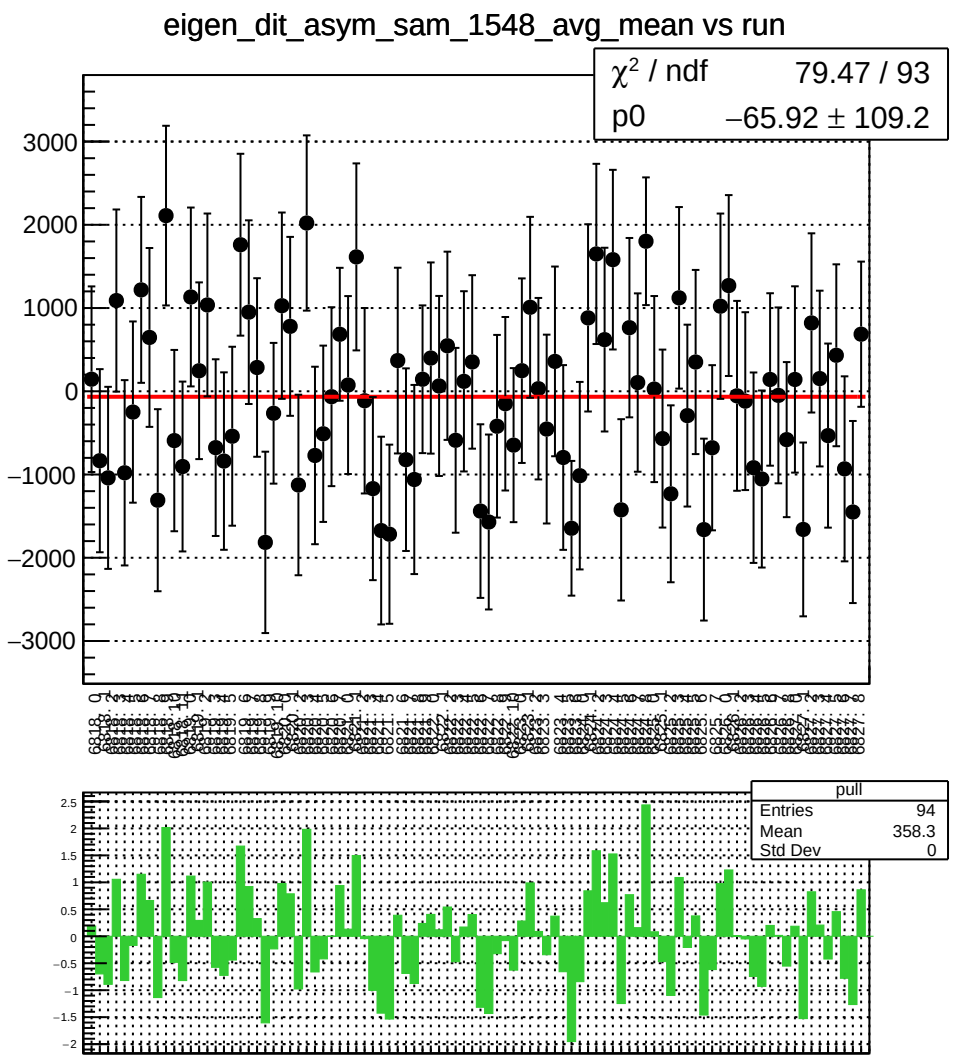

pull1D
Entries 94
Mean −0.004857
Std Dev 0.9195
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

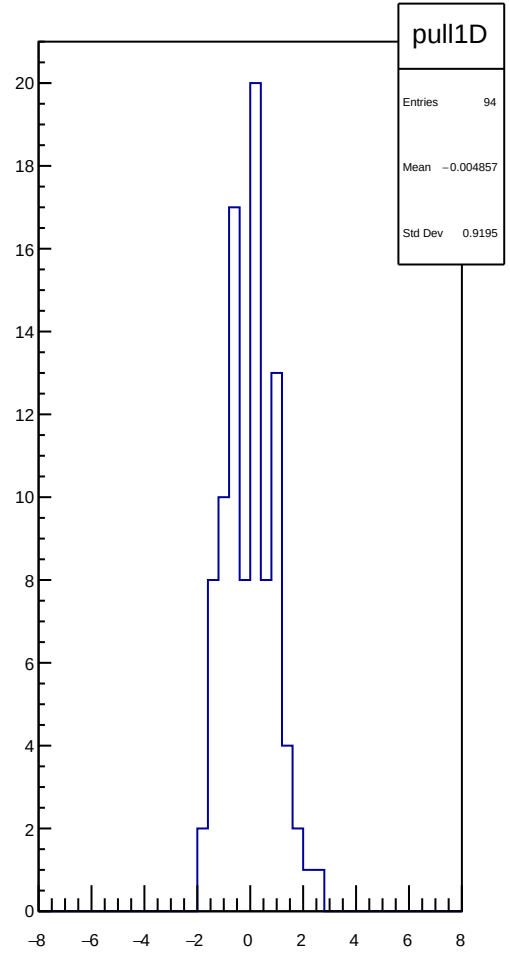

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 999.5 / 93
p0 103.5 ± 0.07725
110
108
106
104
102
100
98

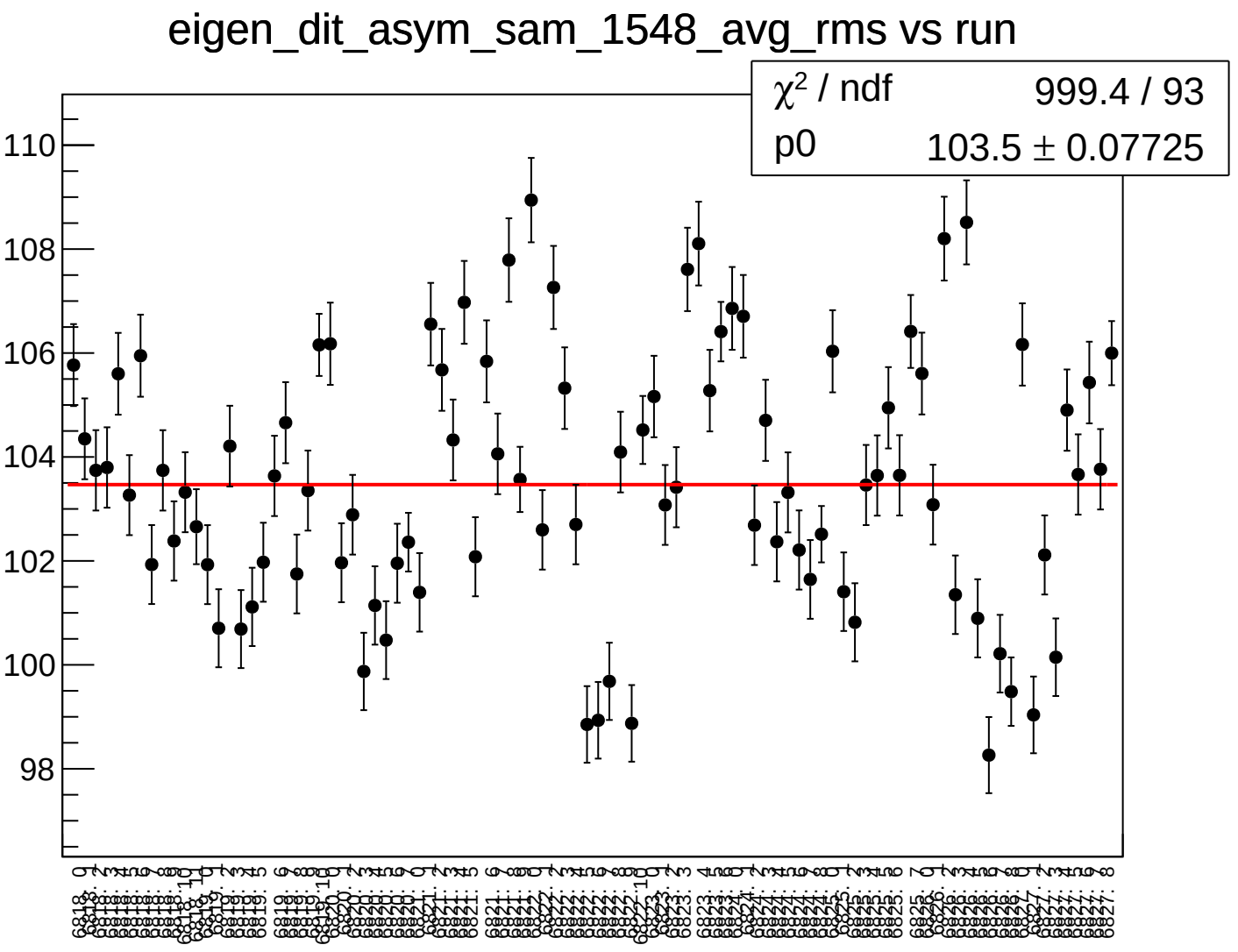

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 86.55 / 93
p0 95.06 ± 652.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

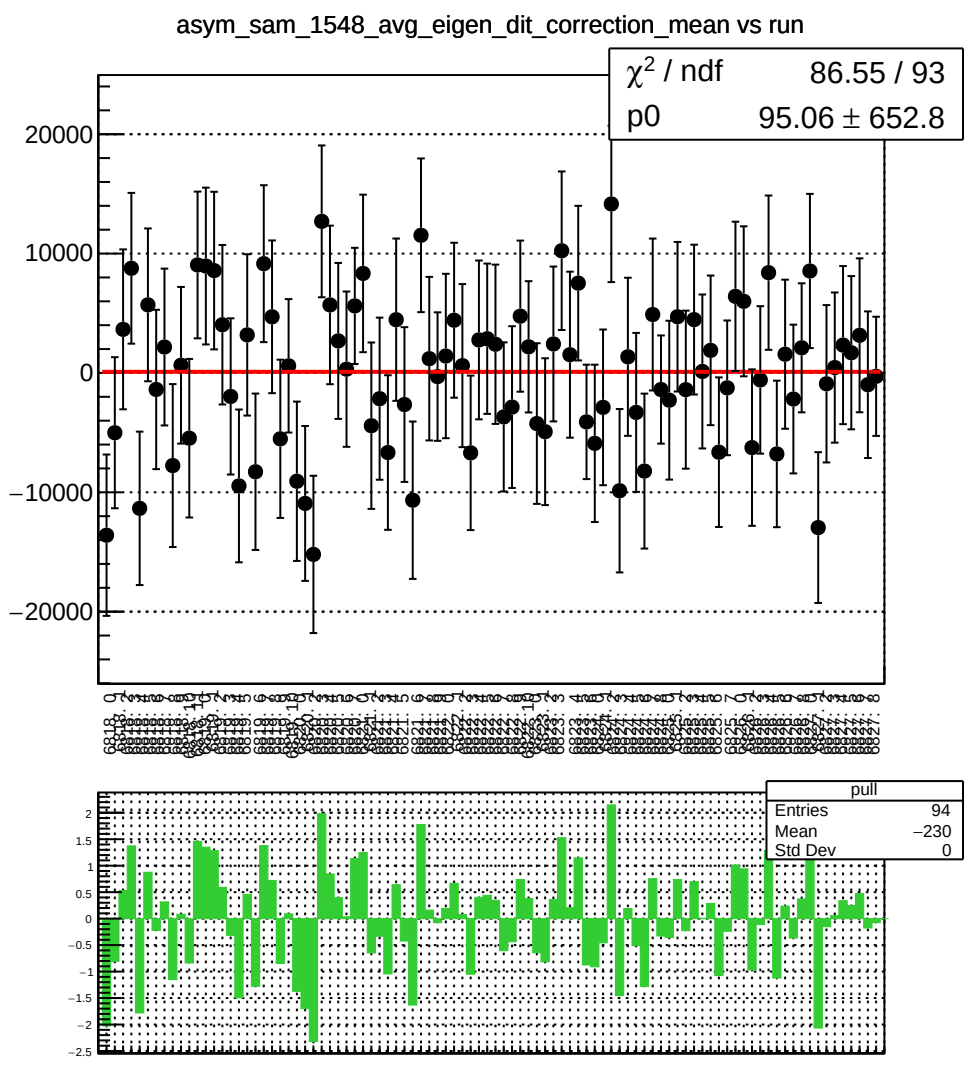

pull1D
Entries 94
Mean −0.003309
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

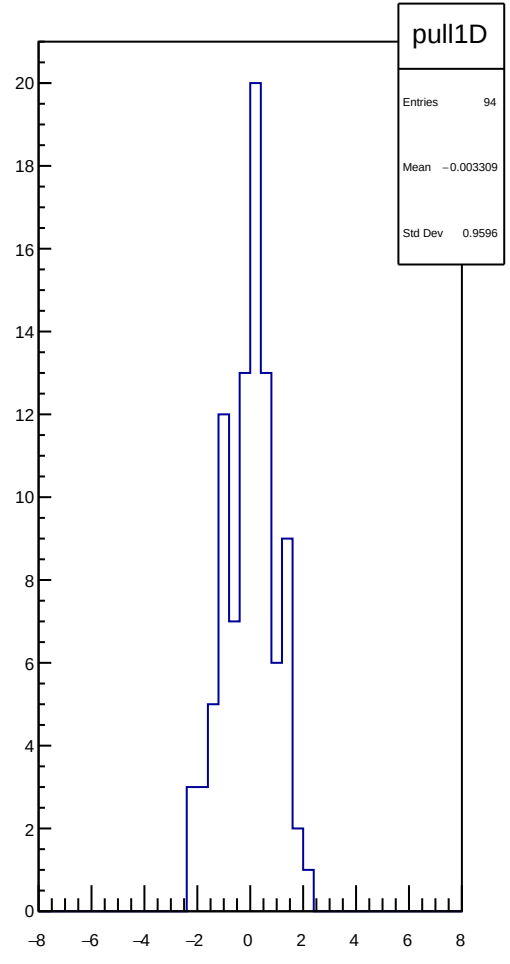

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1972 / 93
p0 618.2 ± 0.4616
700
680
660
640
620
600
580

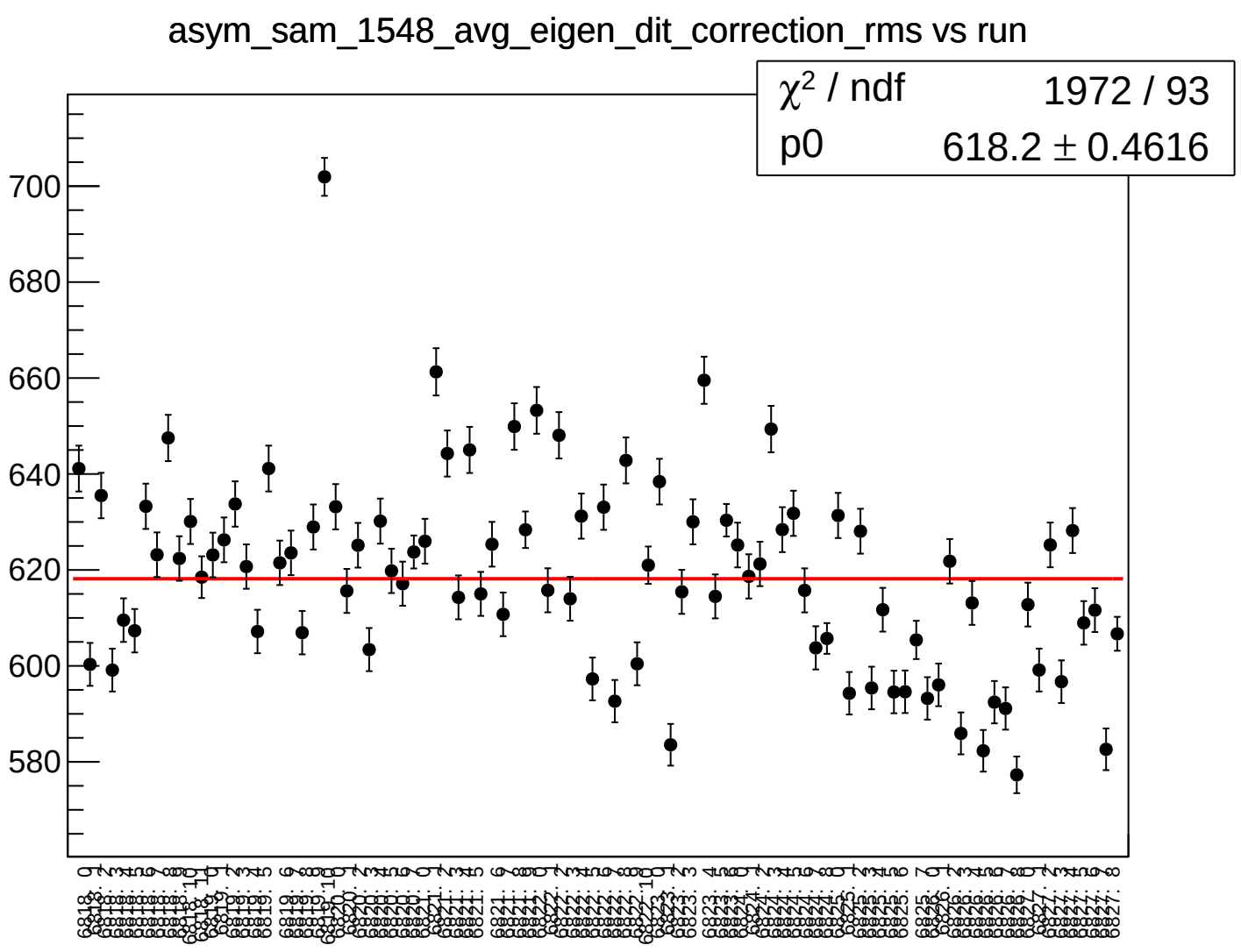

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 79.47 / 93
p0 −65.92 ± 109.2
pull
Entries 94
Mean 358.3
Std Dev 0

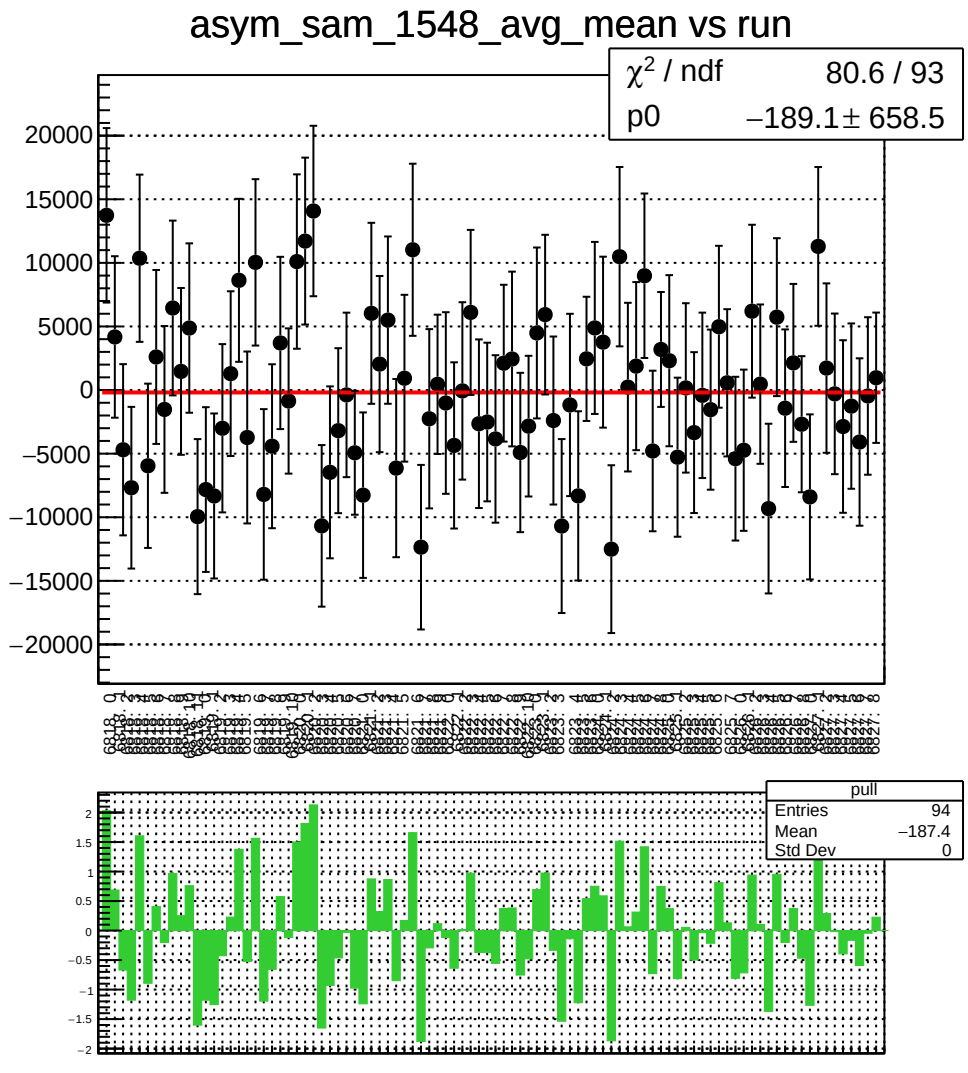

pull1D
Entries 94
Mean −0.004857
Std Dev 0.9195

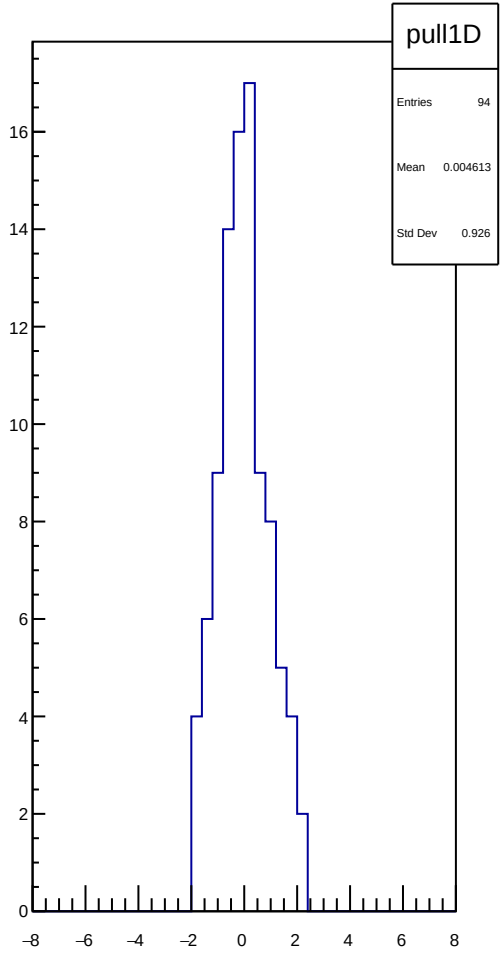

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 999.4 / 93
p0 103.5 ± 0.07725
110
108
106
104
102
100
98

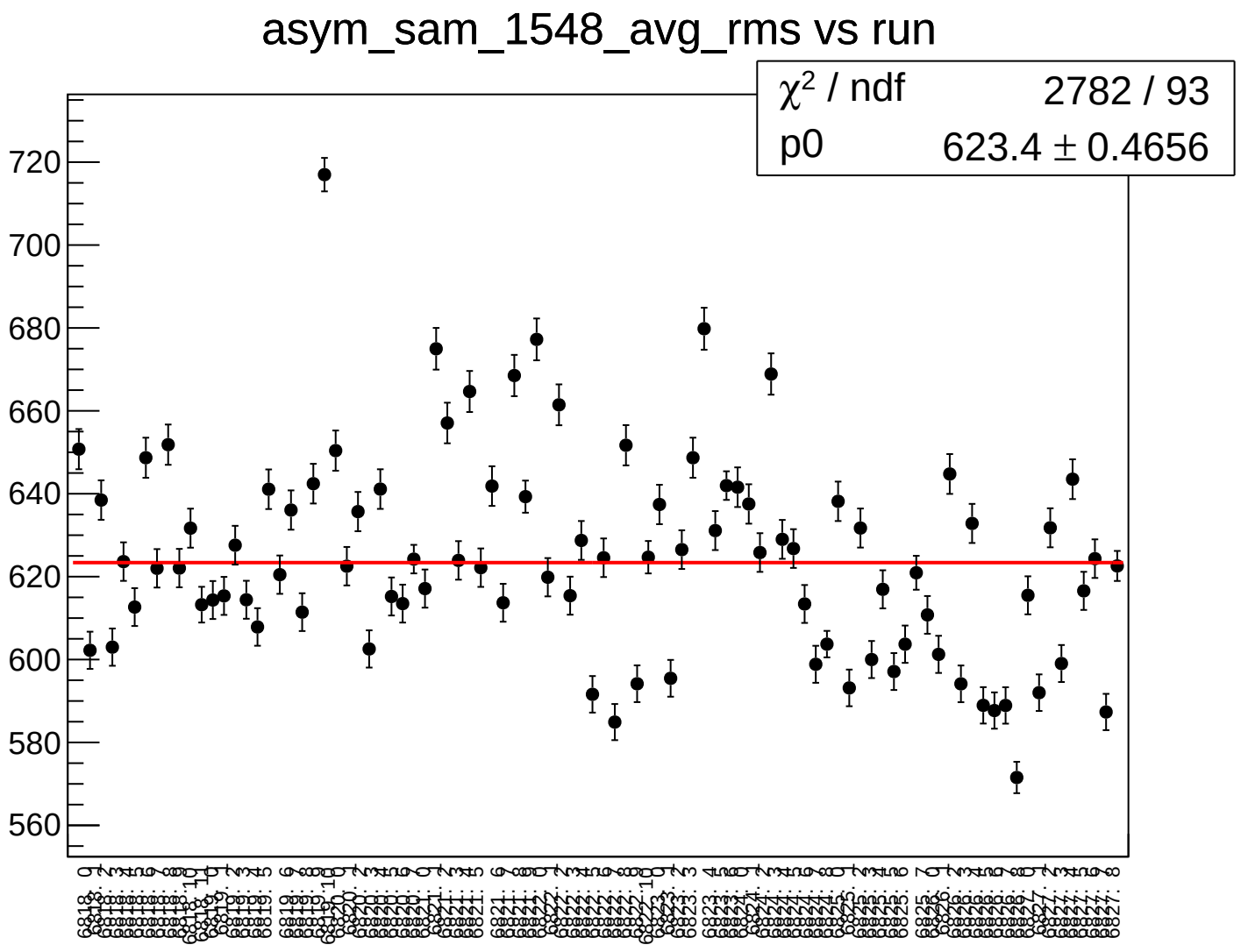

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.55 / 93
p0 95.06 ± 652.8
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

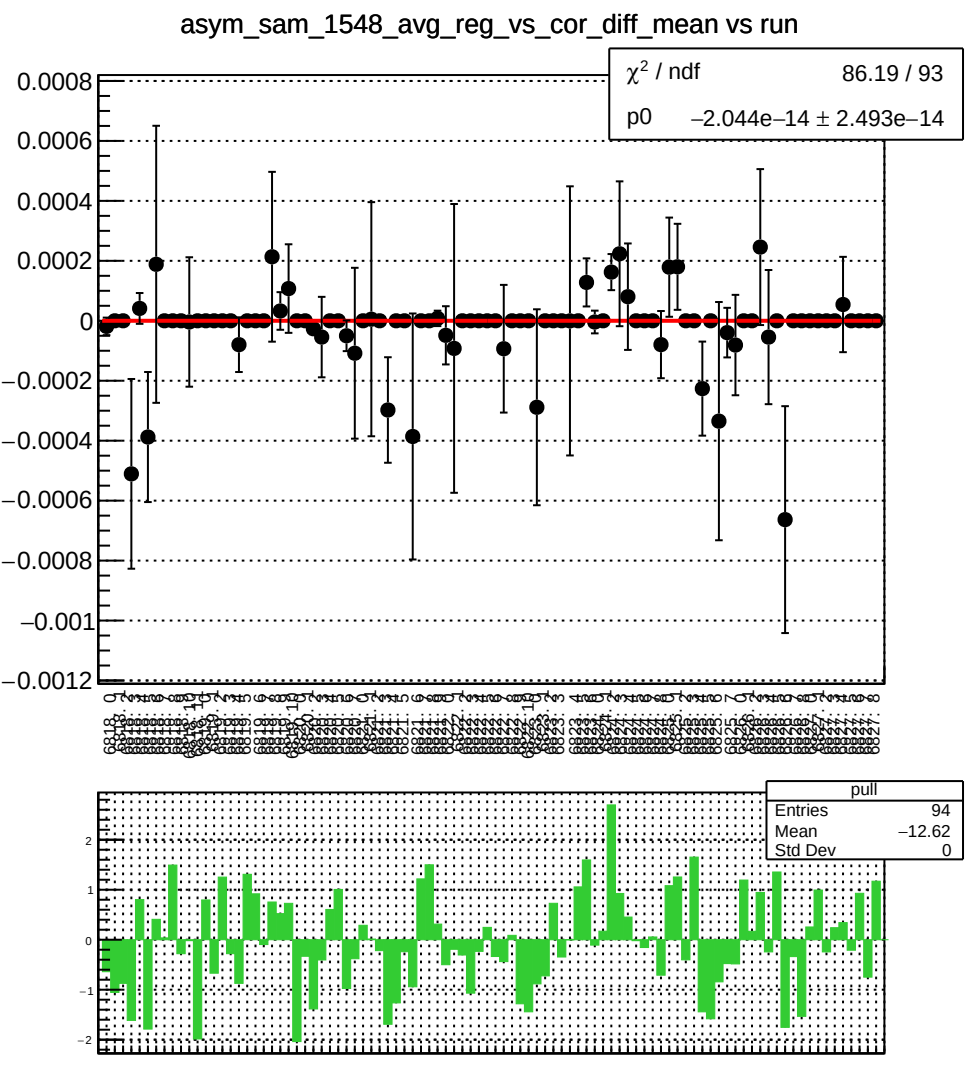

pull1D
Entries 94
Mean −0.003309
Std Dev 0.9596
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

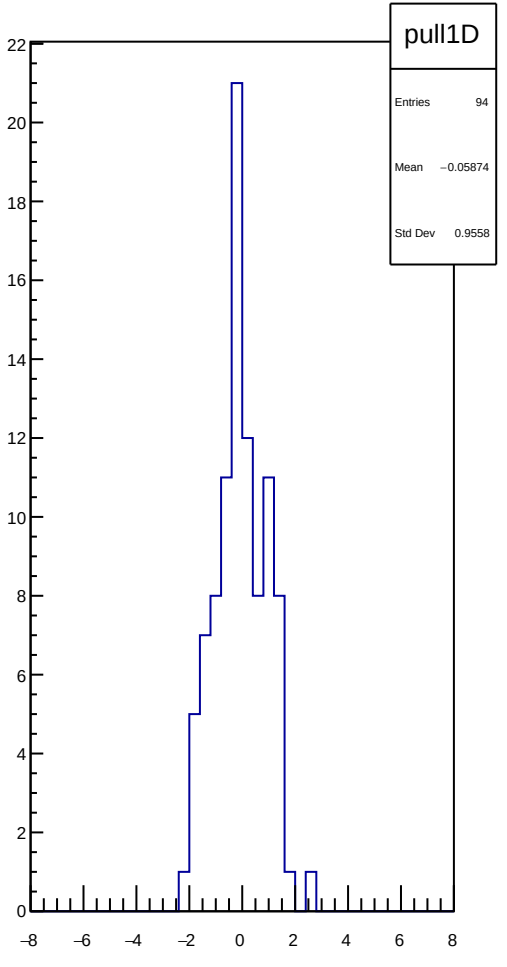

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1972 / 93
p0 618.2 ± 0.4616
700
680
660
640
620
600
580

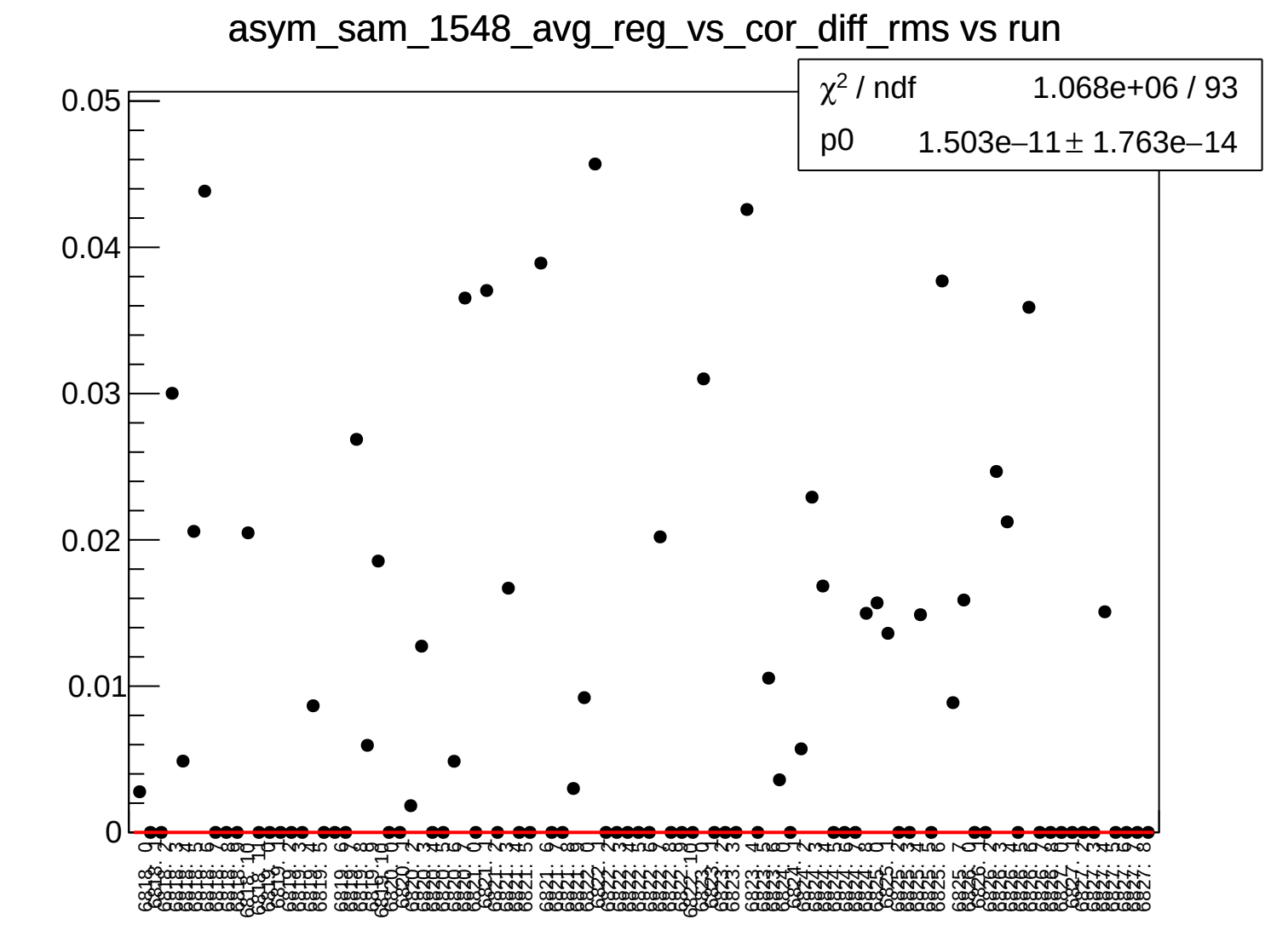

asym_sam_1548_avg_mean vs run
χ² / ndf 80.6 / 93
p0 −189.1± 658.5
pull
Entries 94
Mean −187.4
Std Dev 0

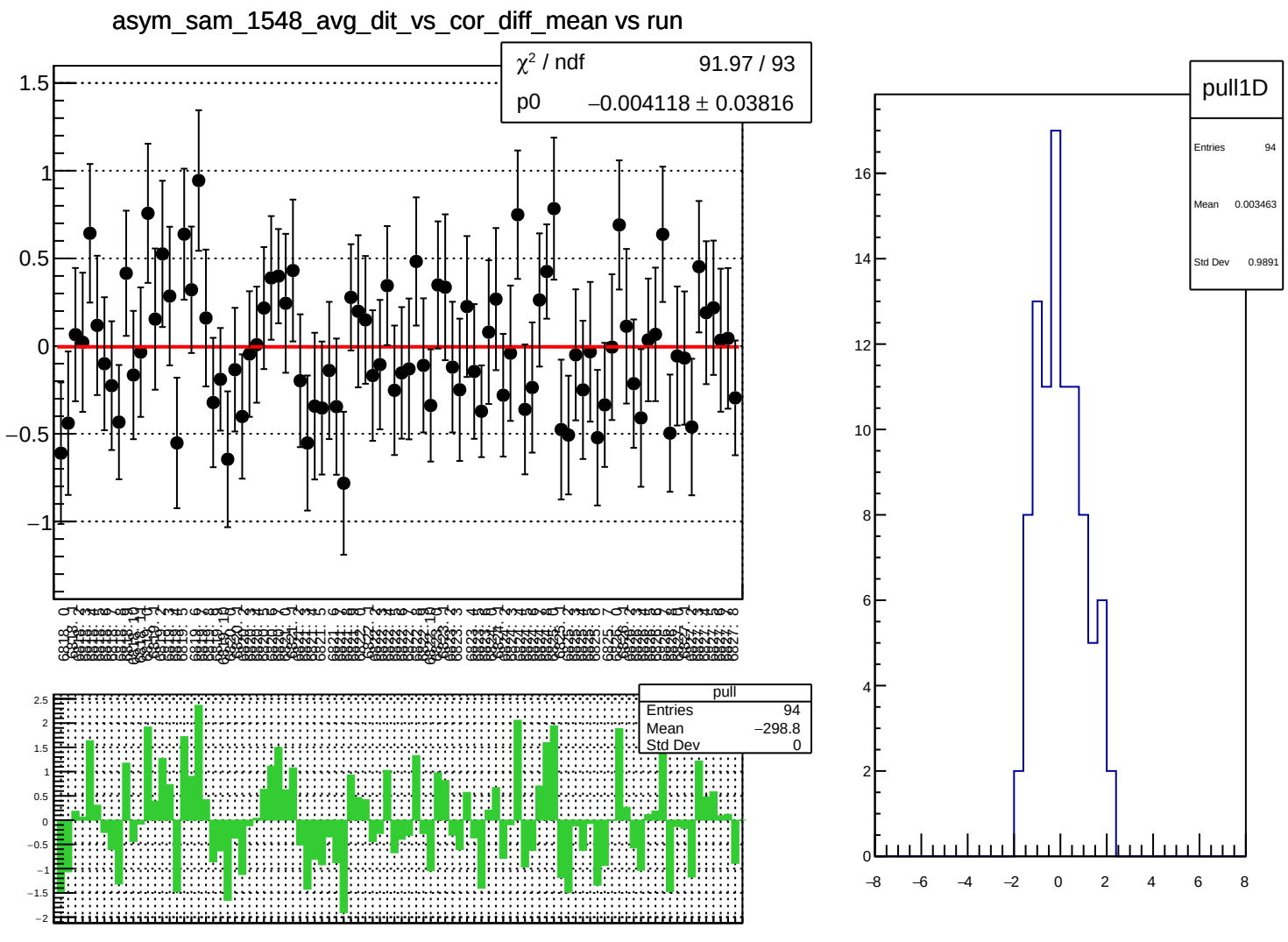

pull1D
Entries 94
Mean 0.004613
Std Dev 0.926

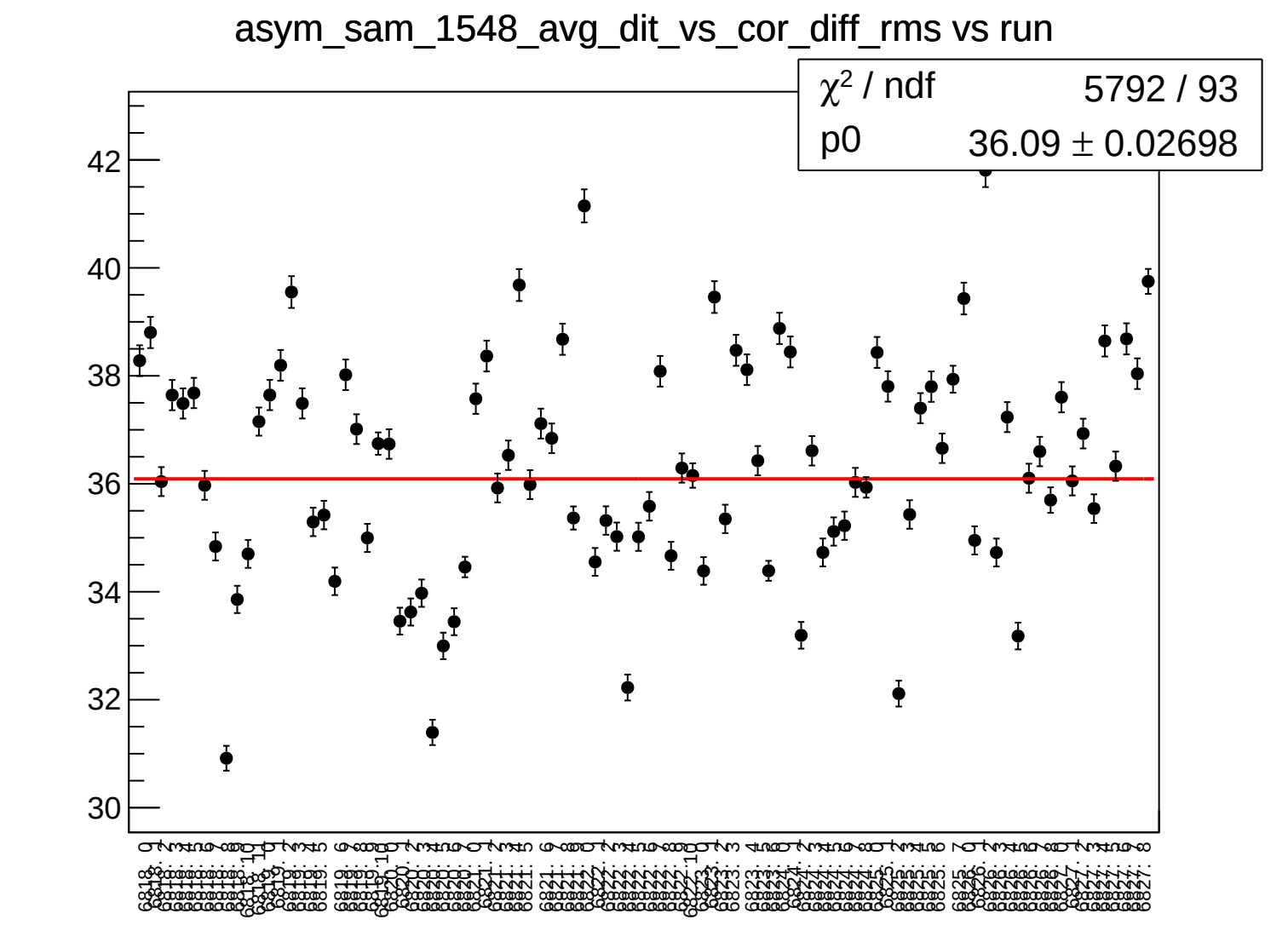

asym_sam_1548_avg_rms vs run
χ² / ndf 2782 / 93
p0 623.4 ± 0.4656
720
700
680
660
640
620
600
580
560

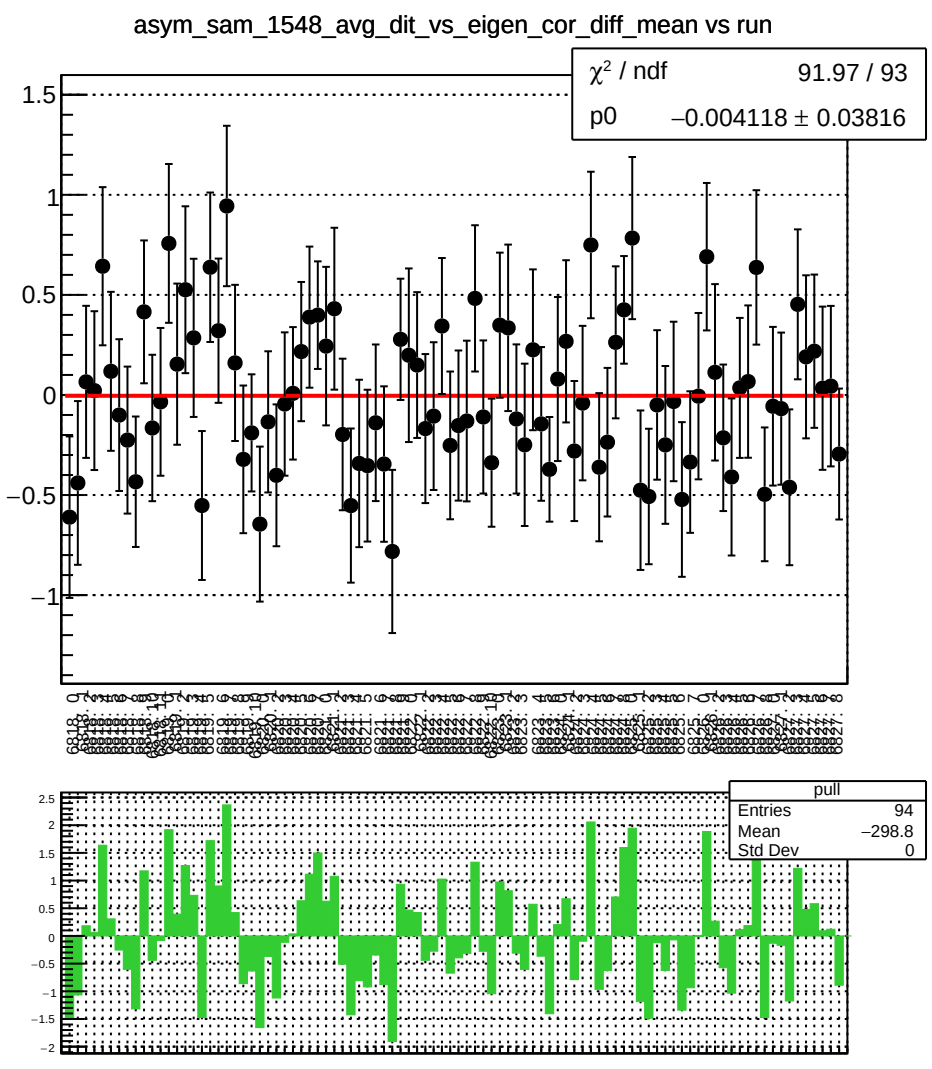

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.19 / 93
p0 −2.044e−14 ± 2.493e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 94
Mean −12.62
Std Dev 0
2
1
0
−1
−2

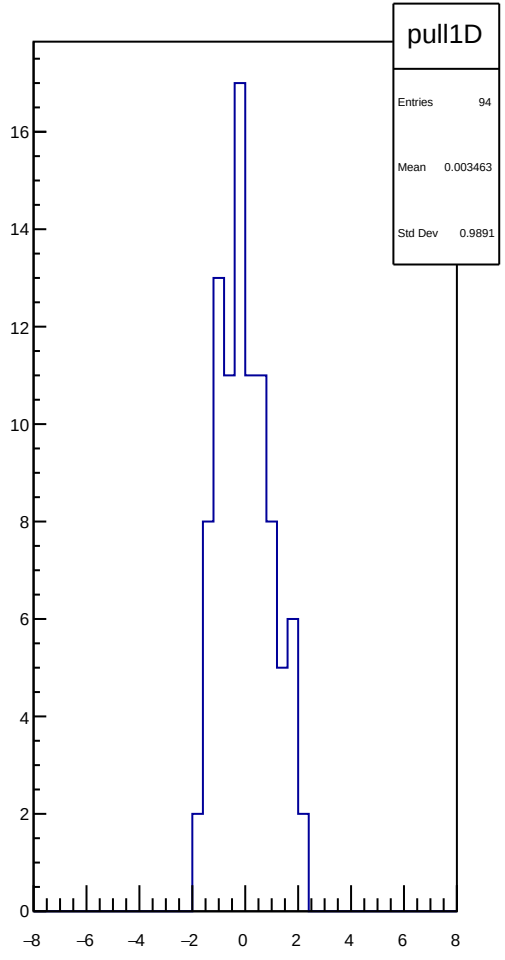

pull1D
Entries 94
Mean −0.05874
Std Dev 0.9558
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

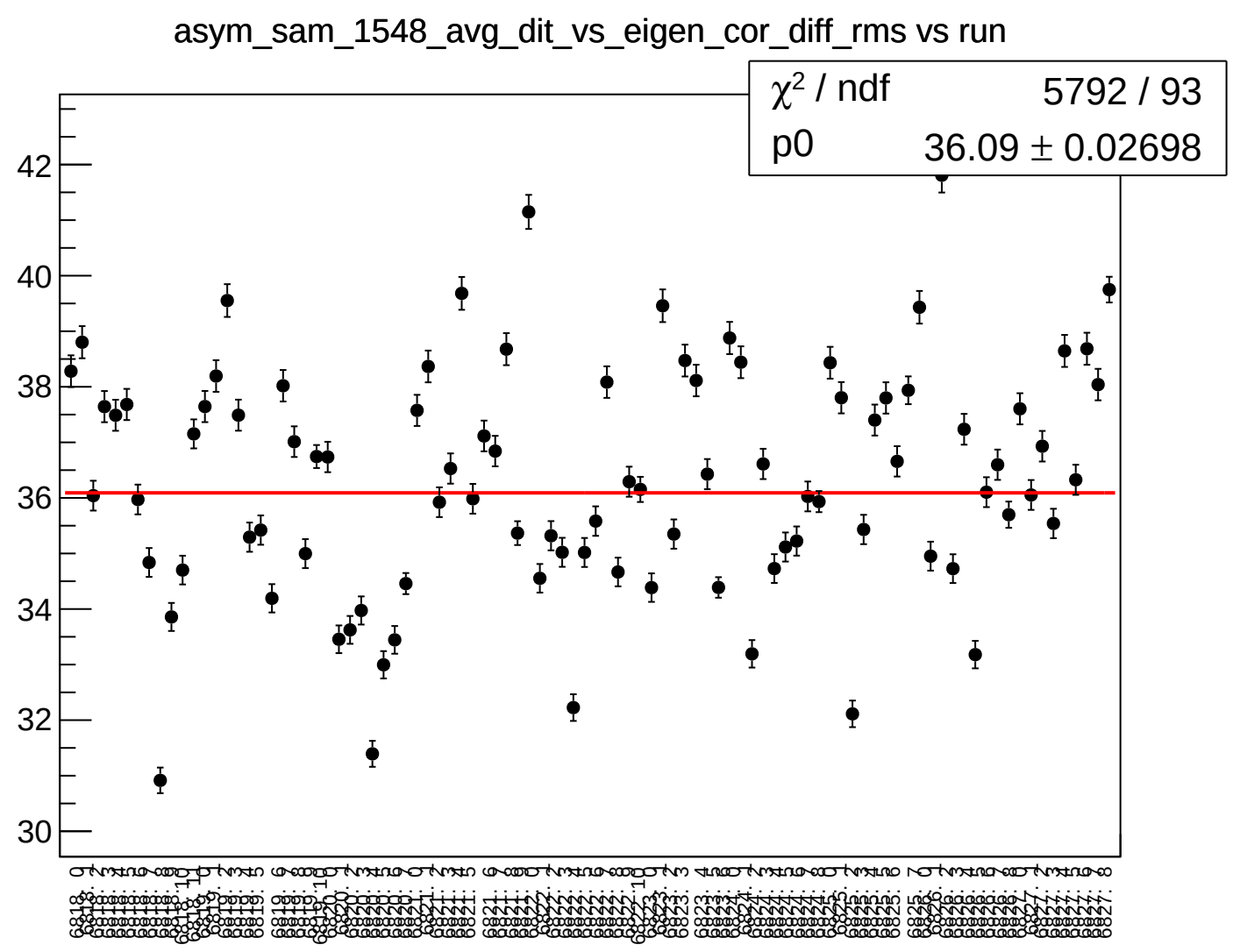

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 93
p0 1.503e−11 ± 1.763e−14
0.05
0.04
0.03
0.02
0.01
0

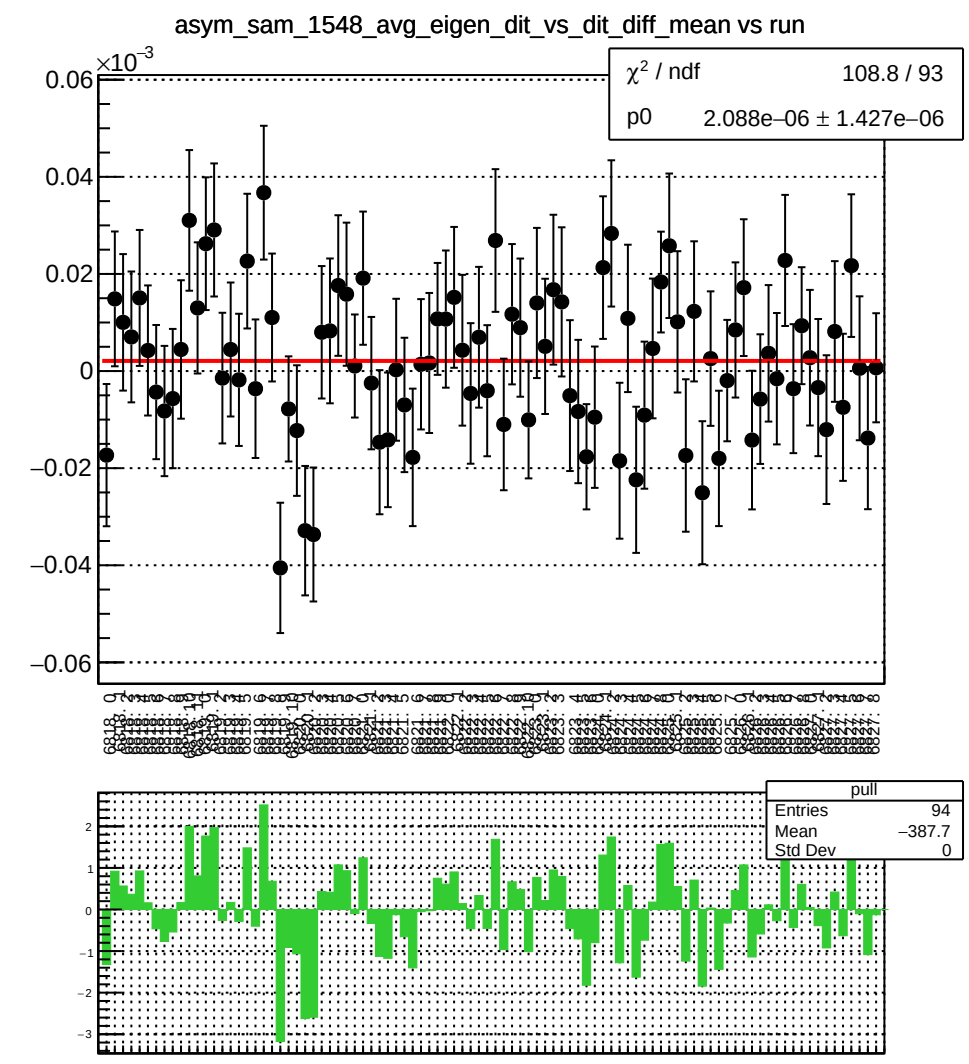

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.97 / 93
p0 −0.004118 ± 0.03816
pull
Entries 94
Mean −298.8
Std Dev 0
pull1D
Entries 94
Mean 0.003463
Std Dev 0.9891

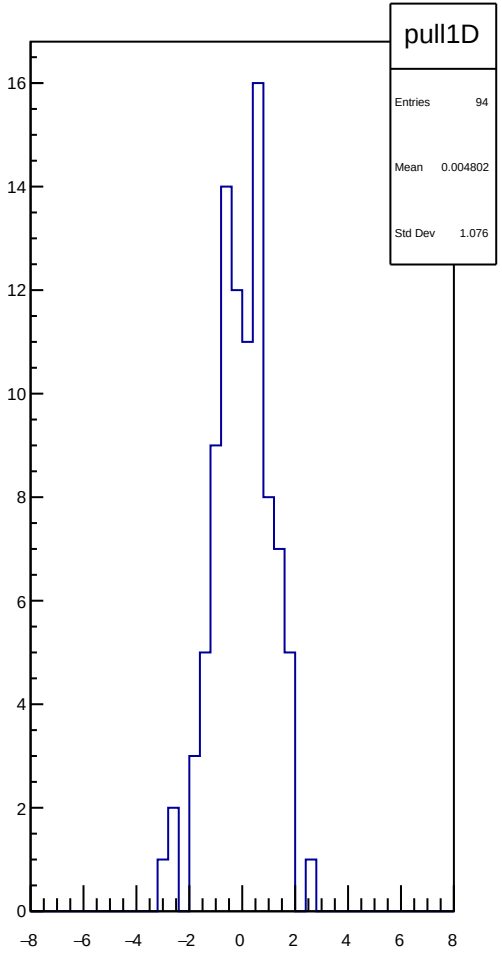

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5792 / 93
p0 36.09 ± 0.02698
42
40
38
36
34
32
30

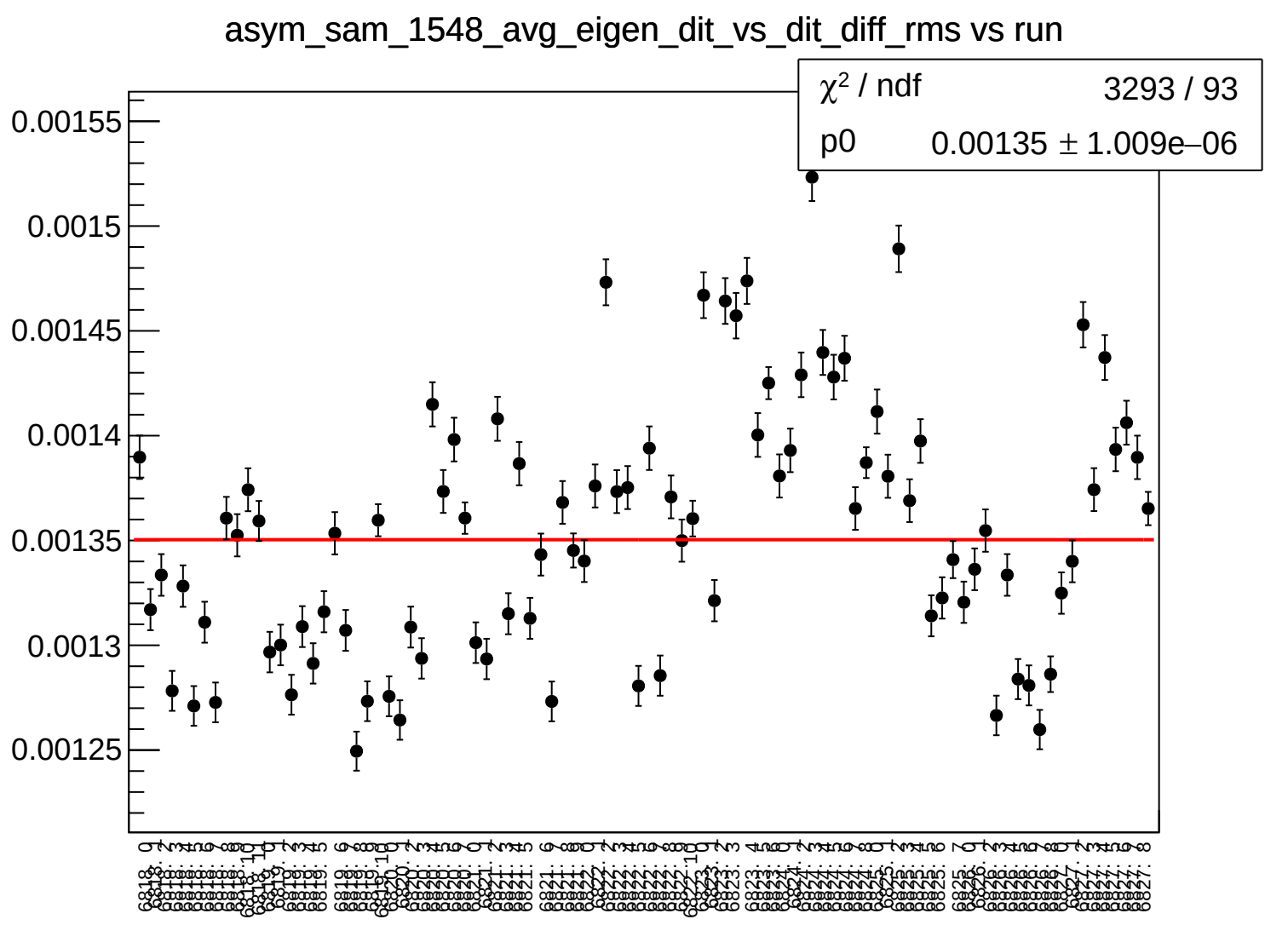

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.97 / 93
p0 −0.004118 ± 0.03816
pull
Entries 94
Mean −298.8
Std Dev 0

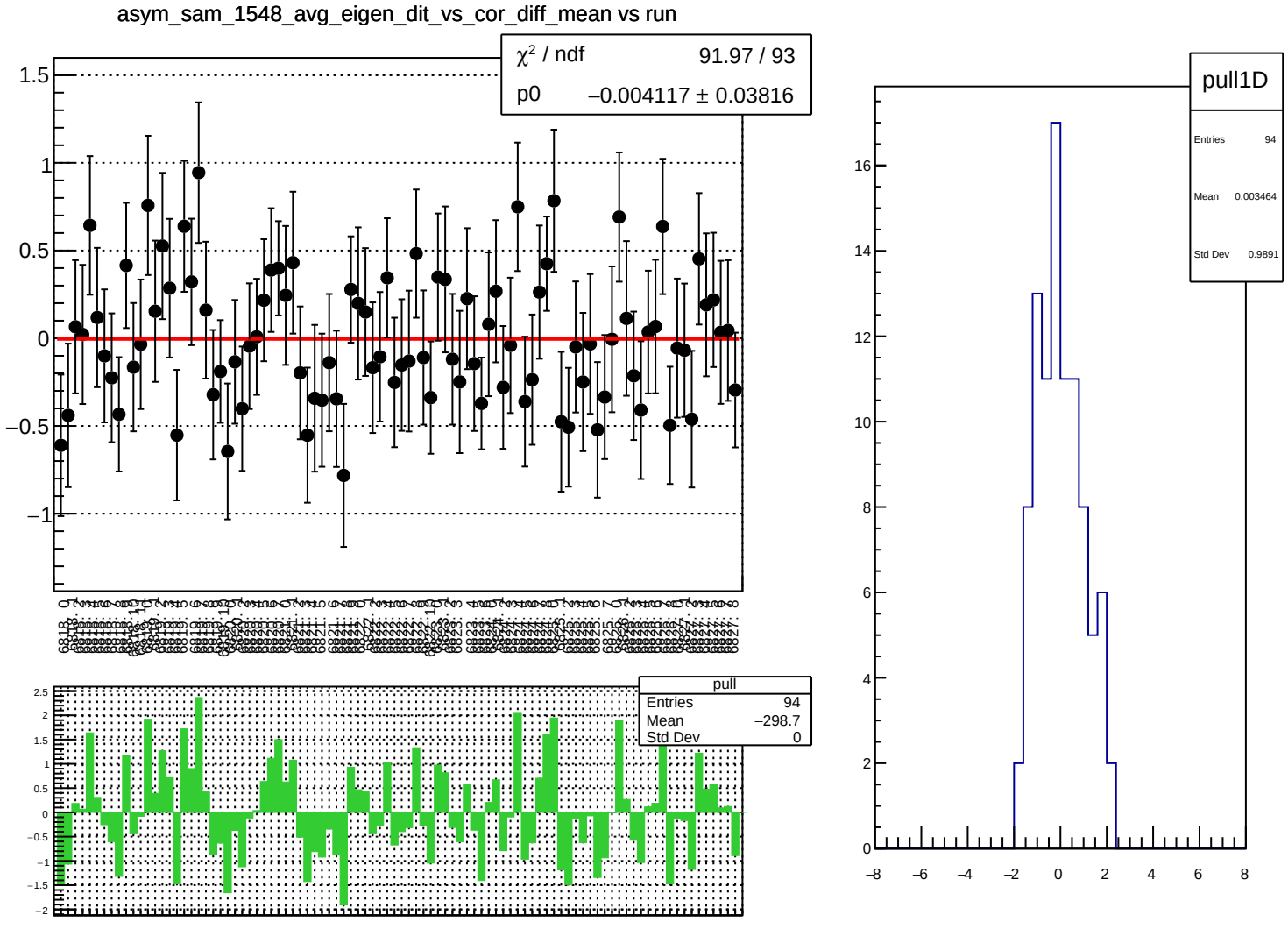

pull1D
Entries 94
Mean 0.003463
Std Dev 0.9891

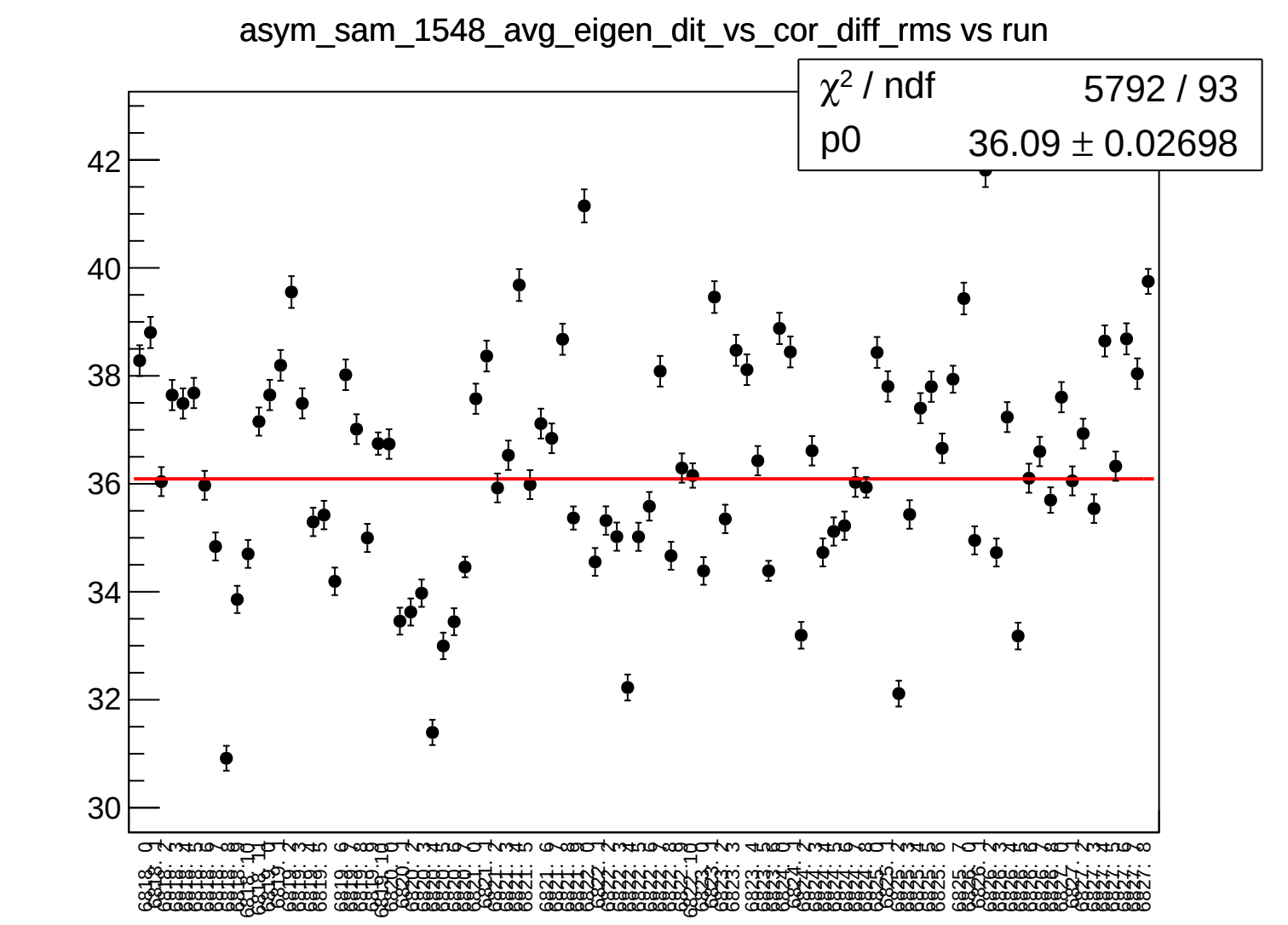

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5792 / 93
p0 36.09 ± 0.02698
42
40
38
36
34
32
30

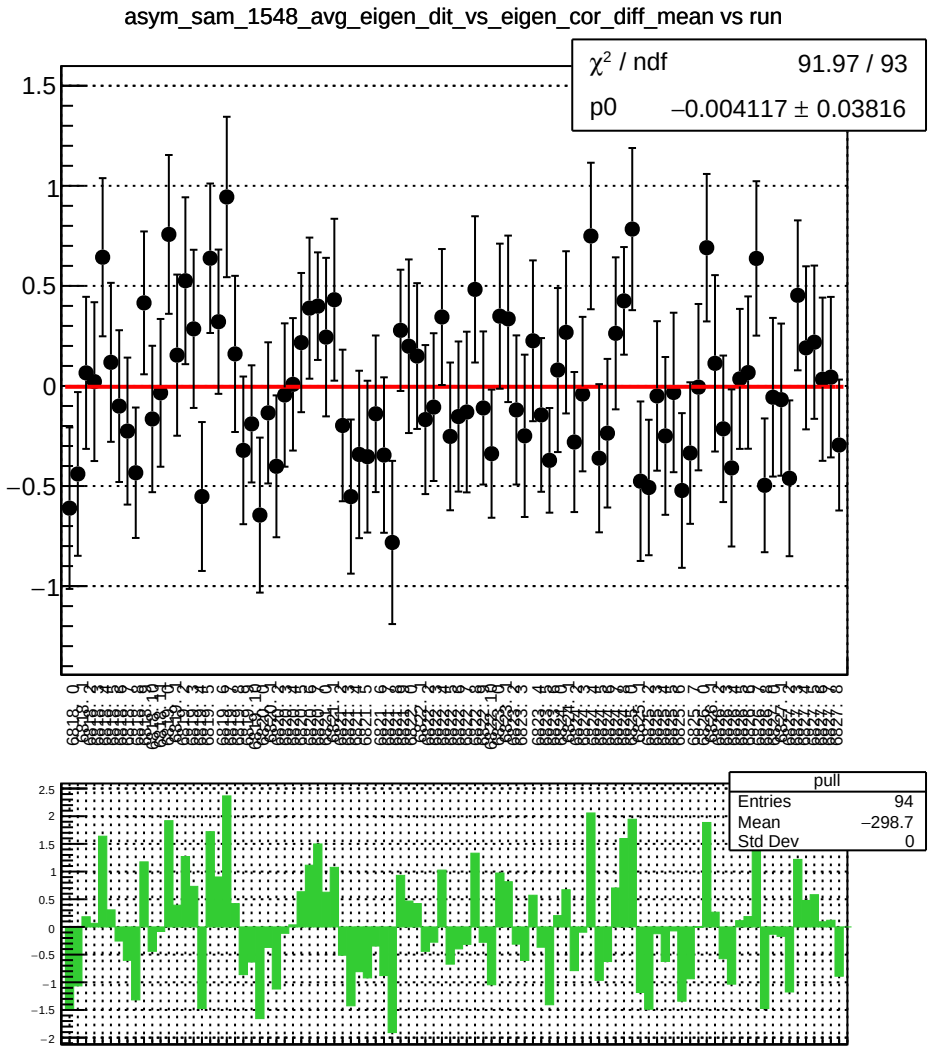

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.8 / 93
p0 2.088e−06 ± 1.427e−06
pull
Entries 94
Mean −387.7
Std Dev 0

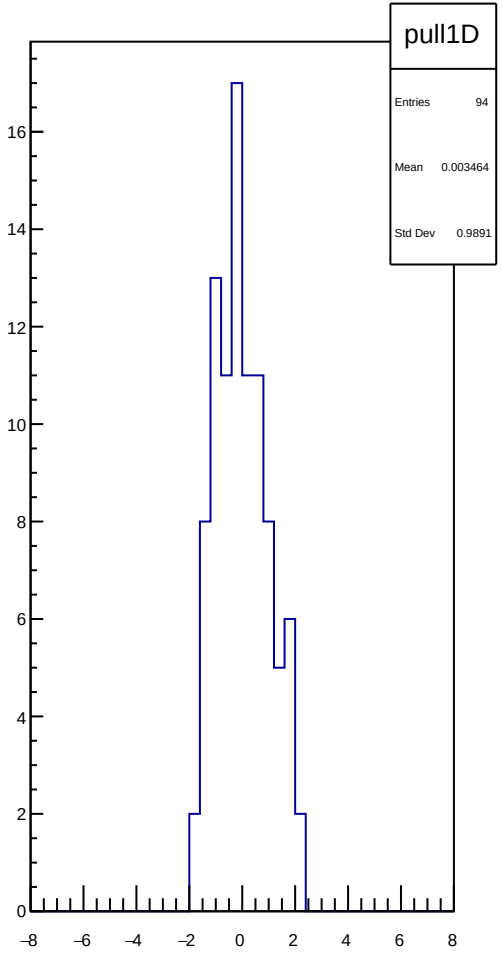

pull1D
Entries 94
Mean 0.004802
Std Dev 1.076

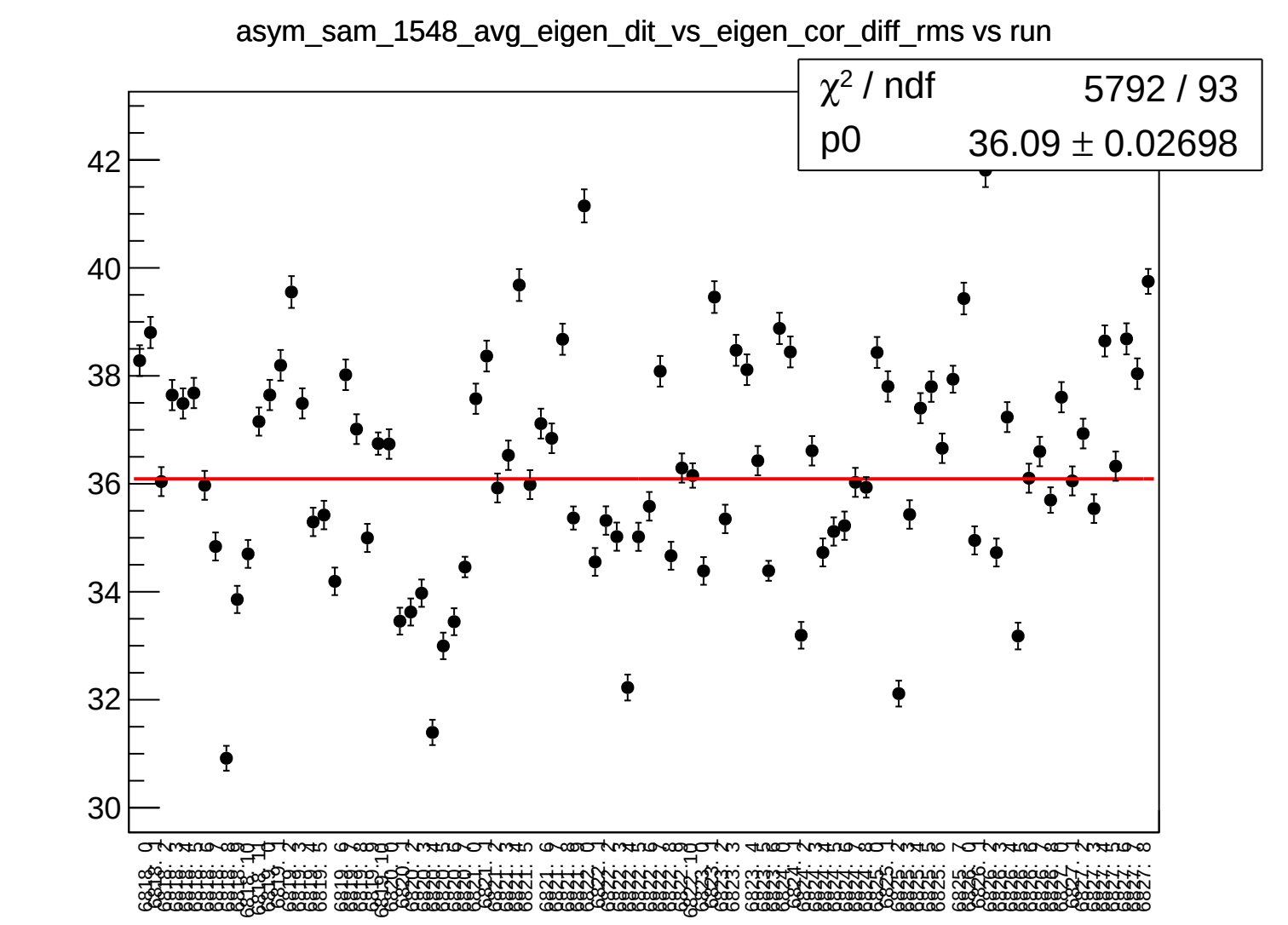

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3293 / 93
p0 0.00135 ± 1.009e–06
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

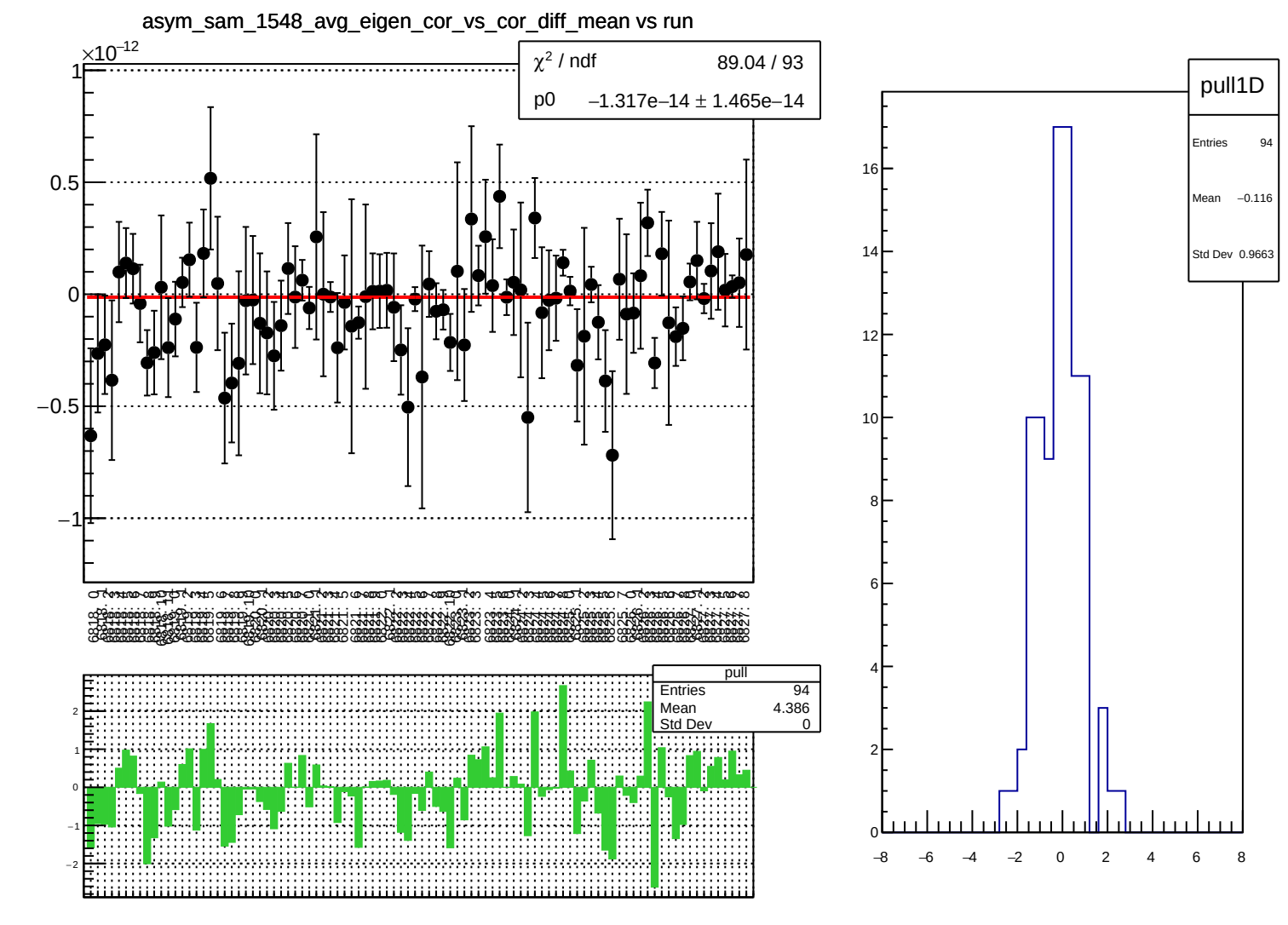

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.97 / 93
p0 −0.004117 ± 0.03816
pull
Entries 94
Mean −298.7
Std Dev 0
pull1D
Entries 94
Mean 0.003464
Std Dev 0.9891

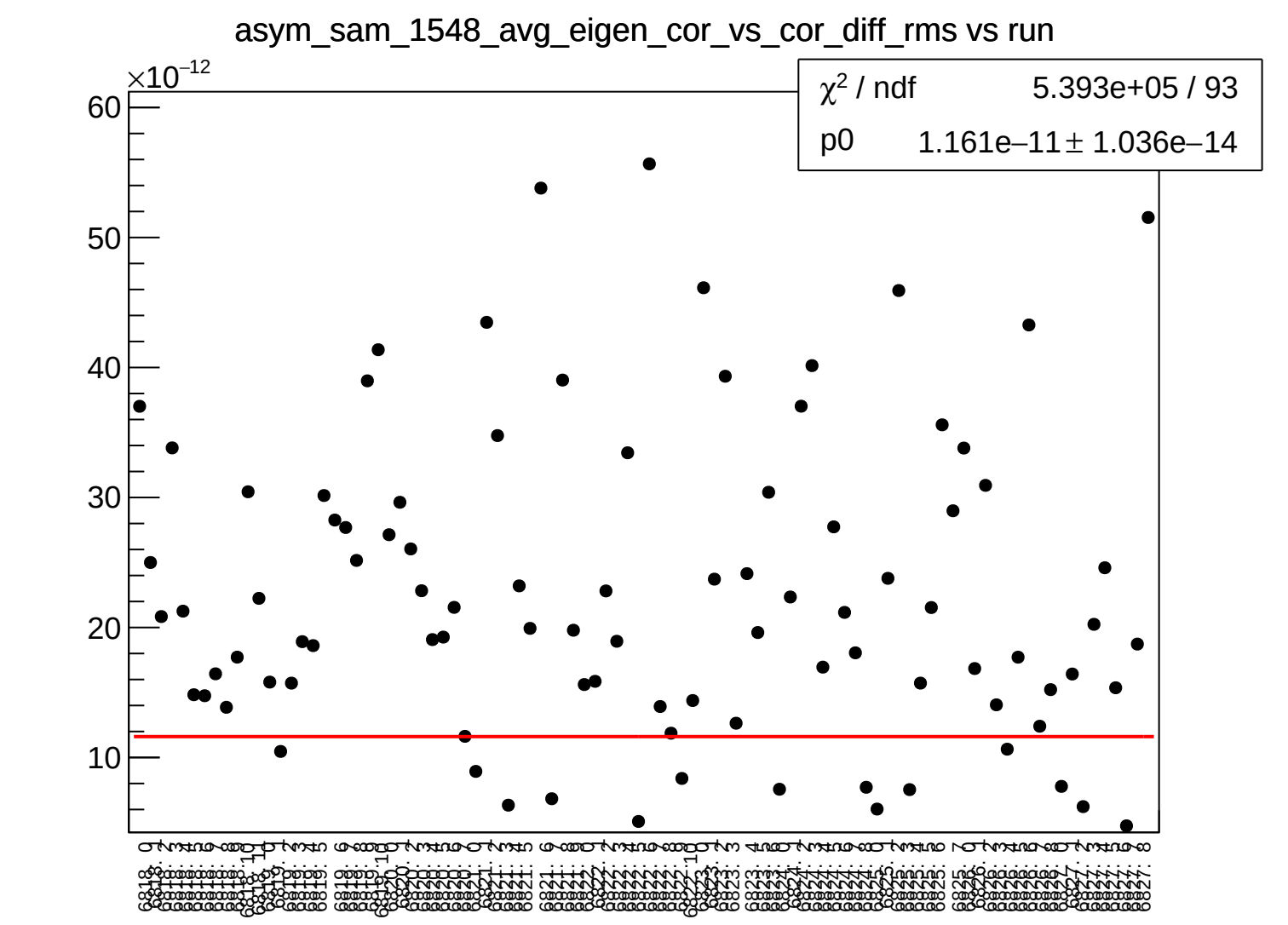

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5792 / 93
p0 36.09 ± 0.02698
42
40
38
36
34
32
30

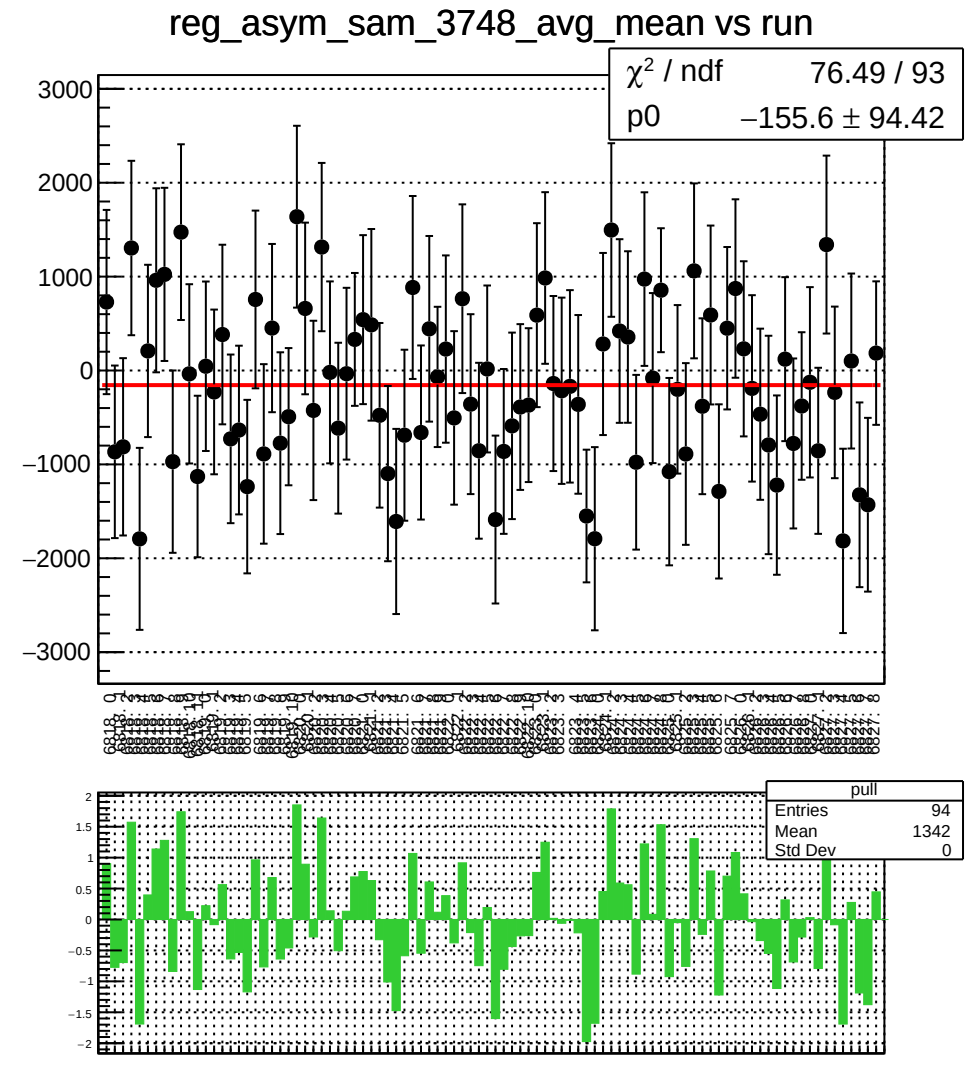

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.97 / 93
p0 −0.004117 ± 0.03816
pull
Entries 94
Mean −298.7
Std Dev 0

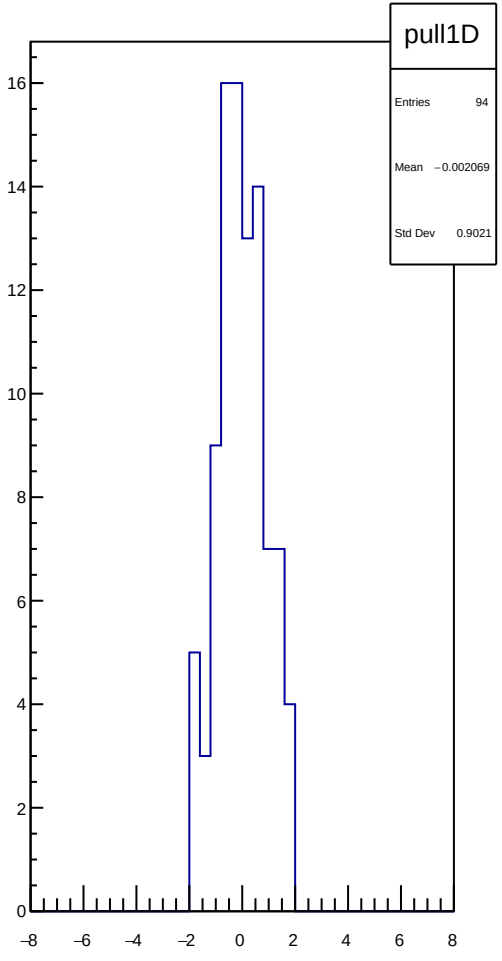

pull1D
Entries 94
Mean 0.003464
Std Dev 0.9891

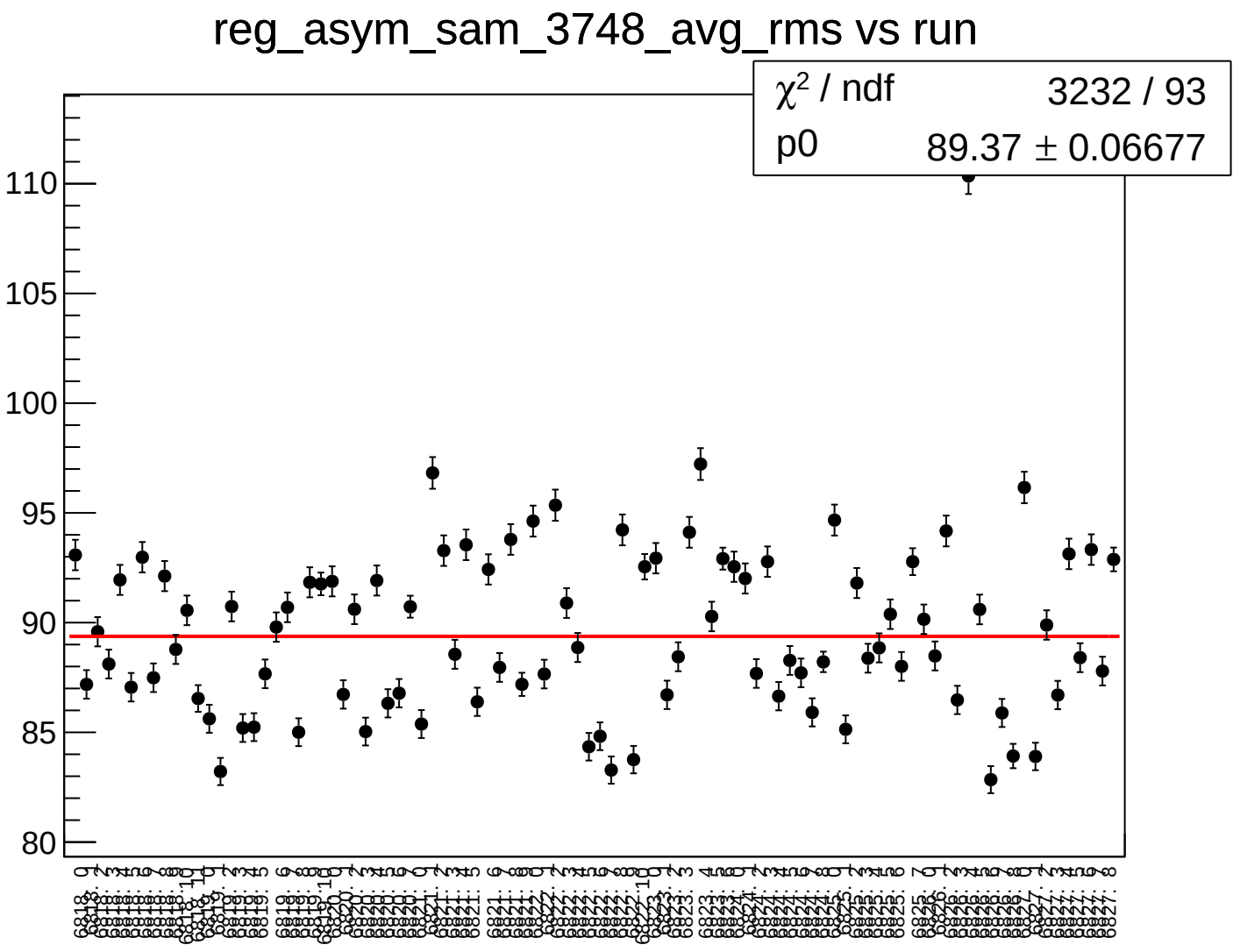

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5792 / 93
p0 36.09 ± 0.02698
42
40
38
36
34
32
30

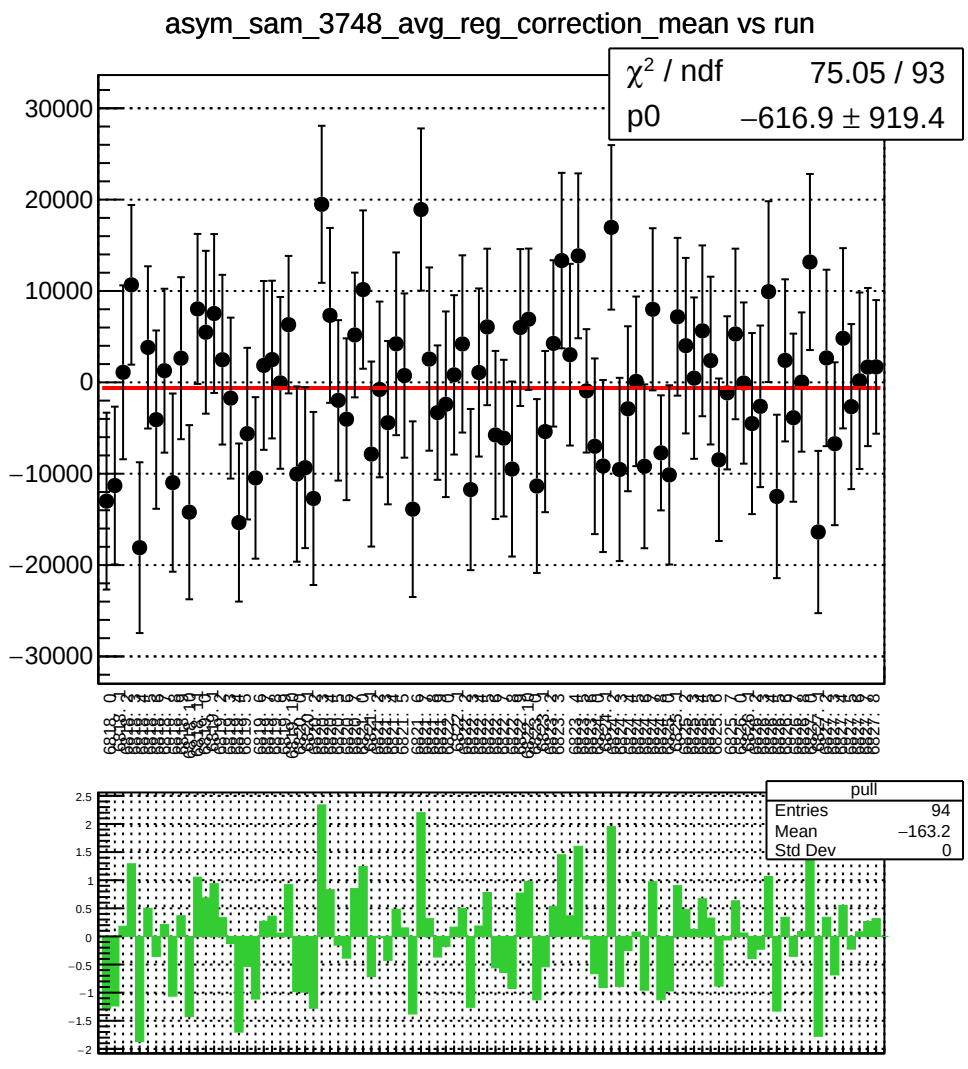

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.04 / 93
p0 −1.317e−14 ± 1.465e−14
pull
Entries 94
Mean 4.386
Std Dev 0
pull1D
Entries 94
Mean −0.116
Std Dev 0.9663

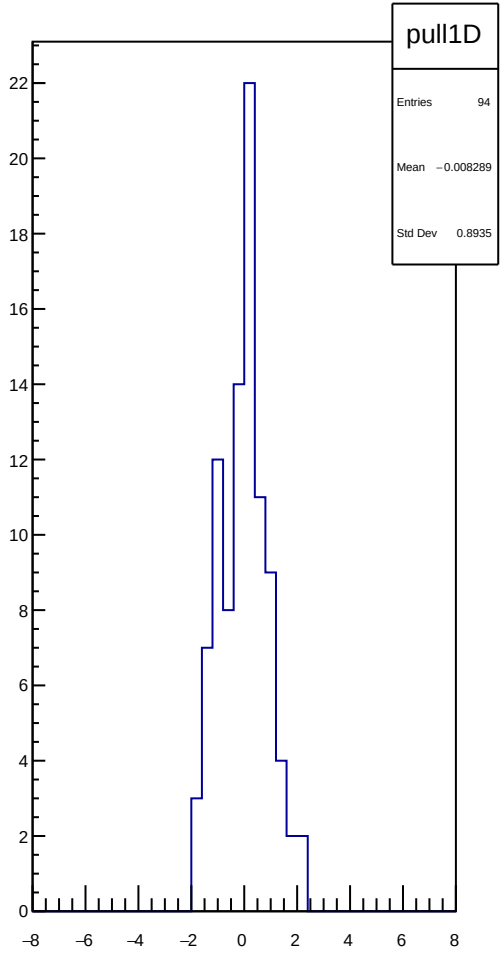

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 5.393e+05 / 93
p0 1.161e−11 ± 1.036e−14

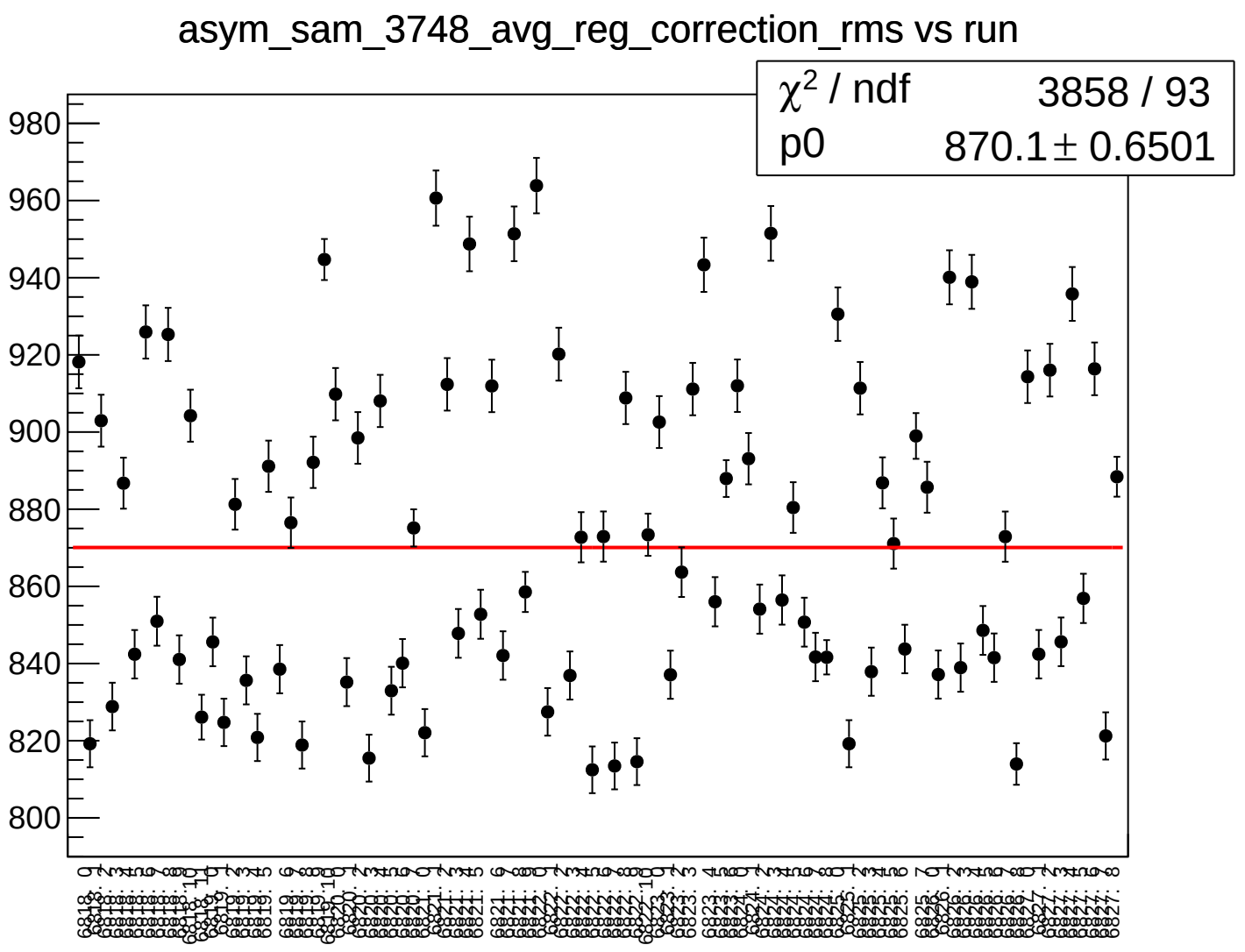

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 76.49 / 93
p0 −155.6 ± 94.42
pull
Entries 94
Mean 1342
Std Dev 0

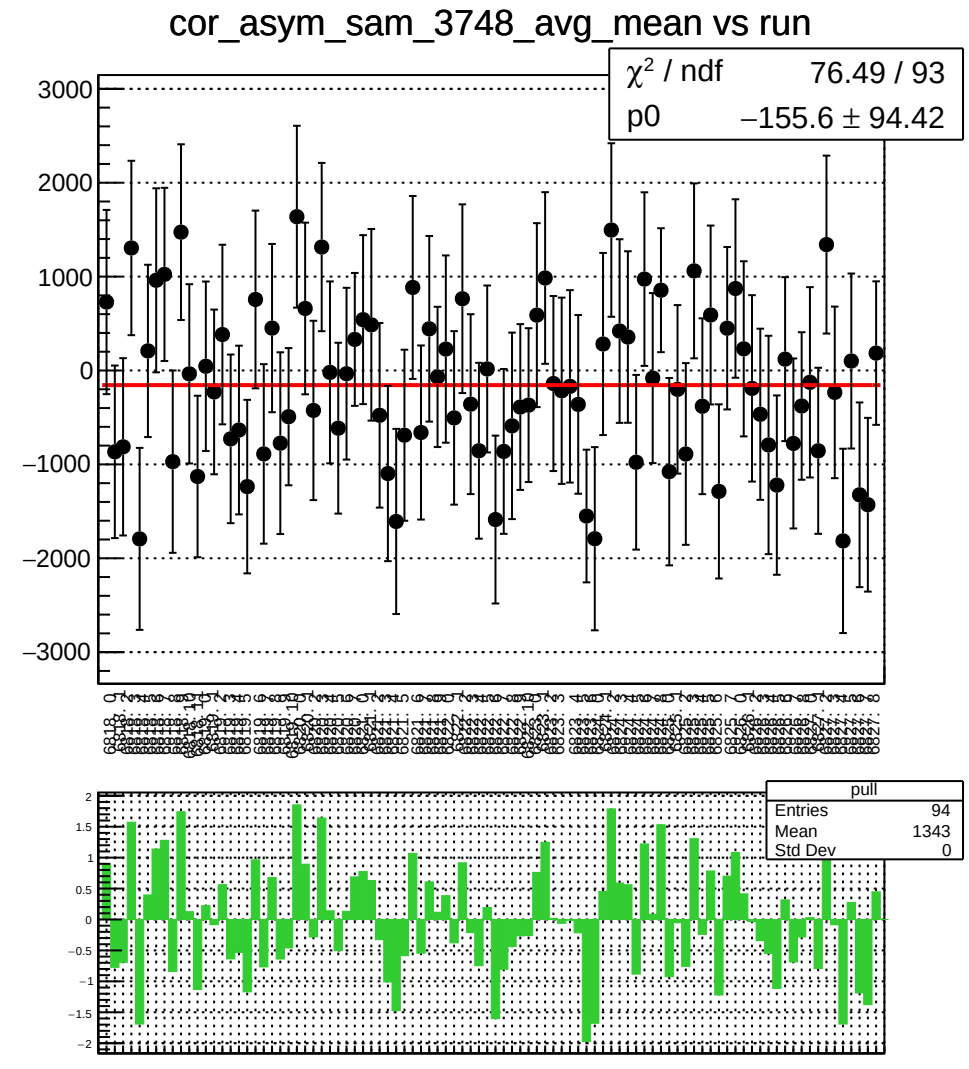

pull1D
Entries 94
Mean −0.002069
Std Dev 0.9021

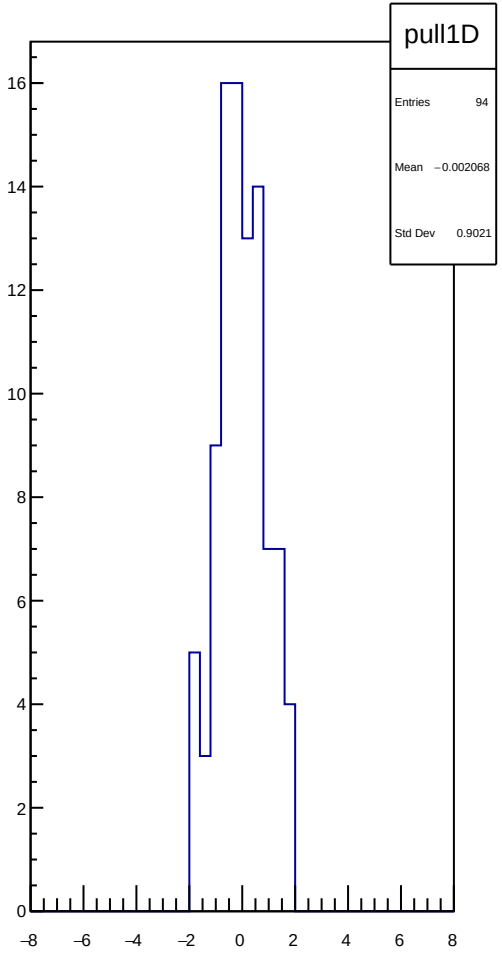

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3232 / 93
p0 89.37 ± 0.06677
110
105
100
95
90
85
80

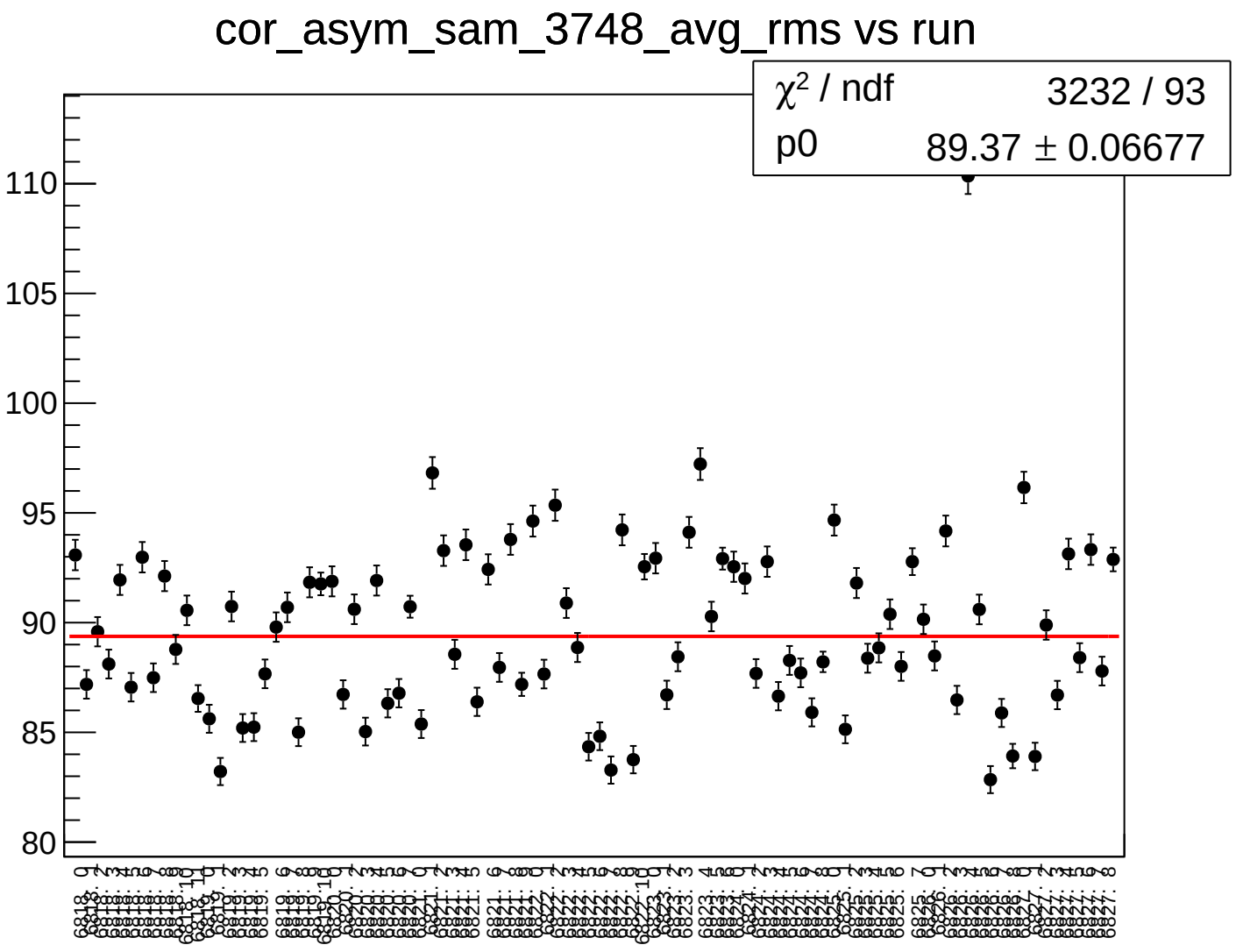

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 75.05 / 93
p0 −616.9 ± 919.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −163.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

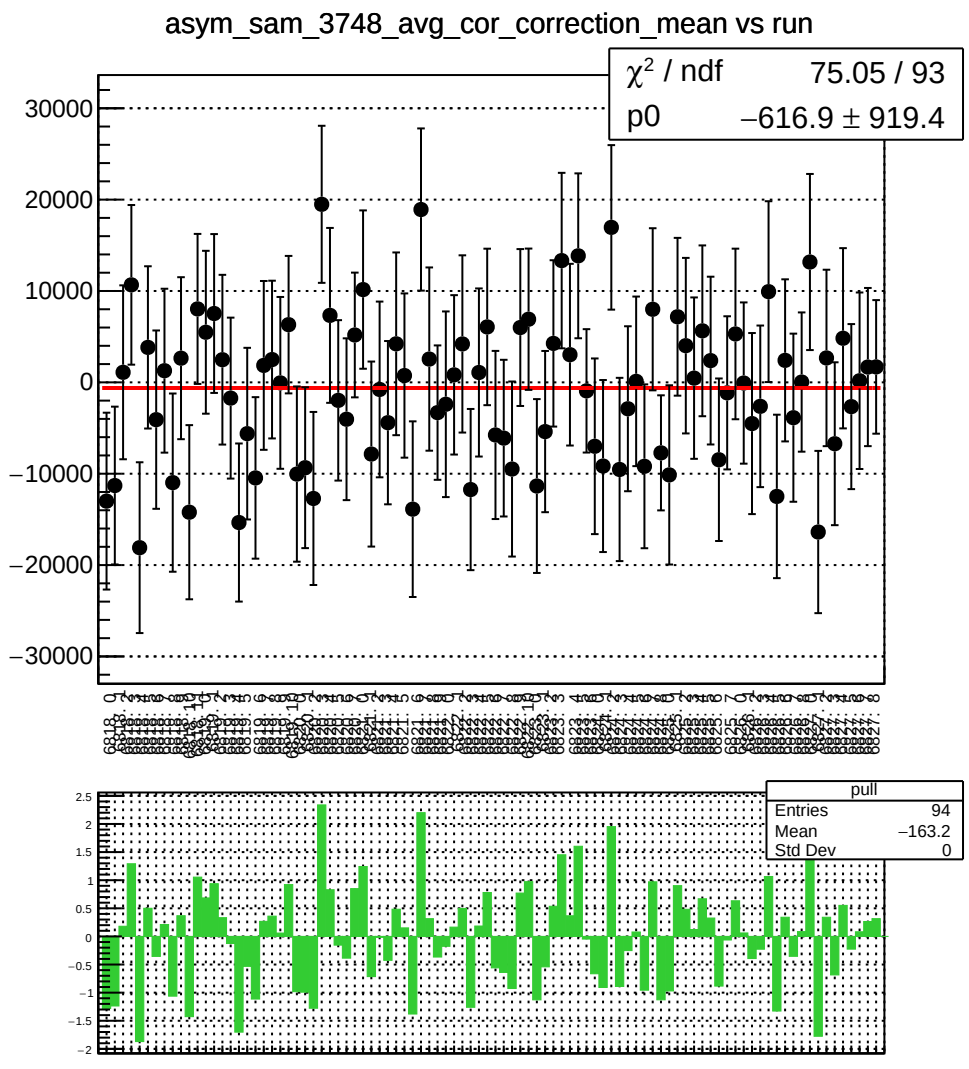

pull1D
Entries 94
Mean −0.008289
Std Dev 0.8935
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

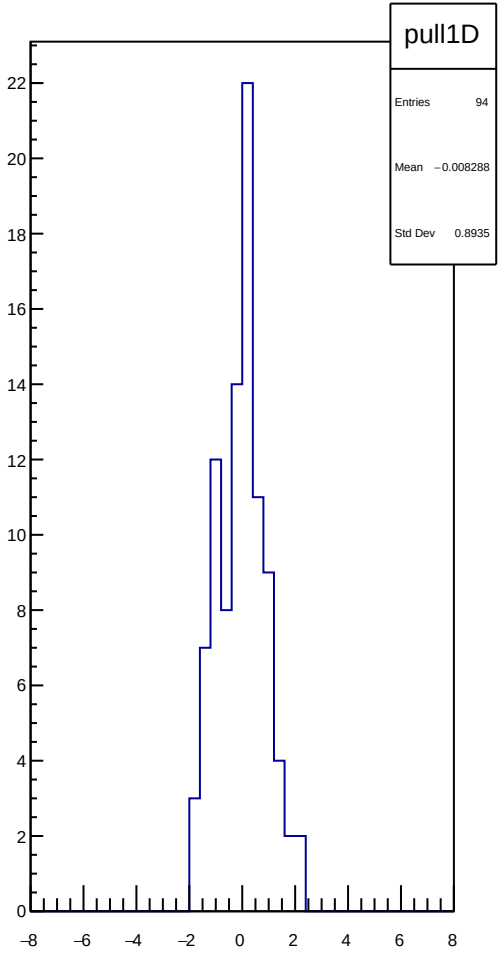

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3858 / 93
p0 870.1 ± 0.6501
980
960
940
920
900
880
860
840
820
800

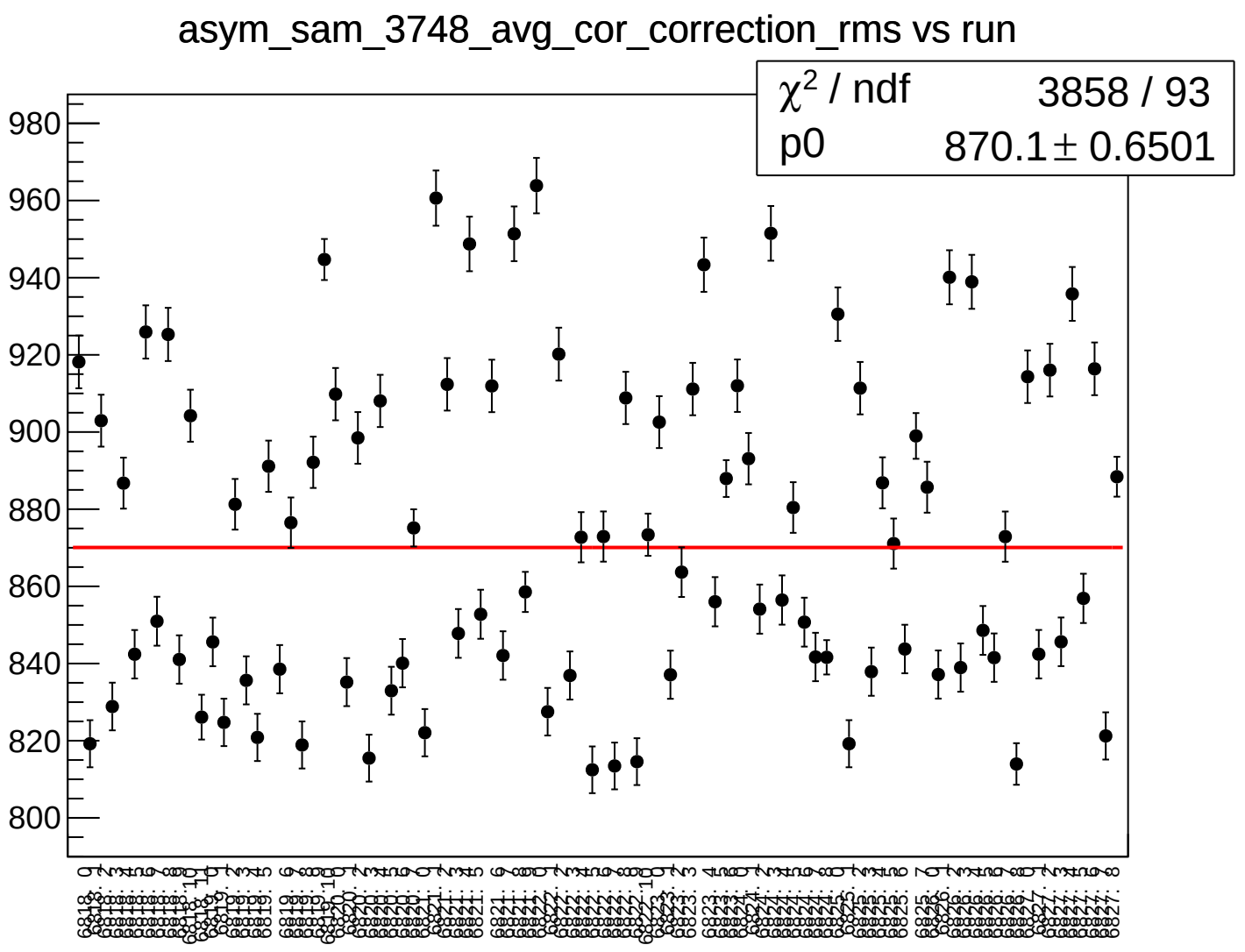

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 76.49 / 93
p0 −155.6 ± 94.42
pull
Entries 94
Mean 1343
Std Dev 0

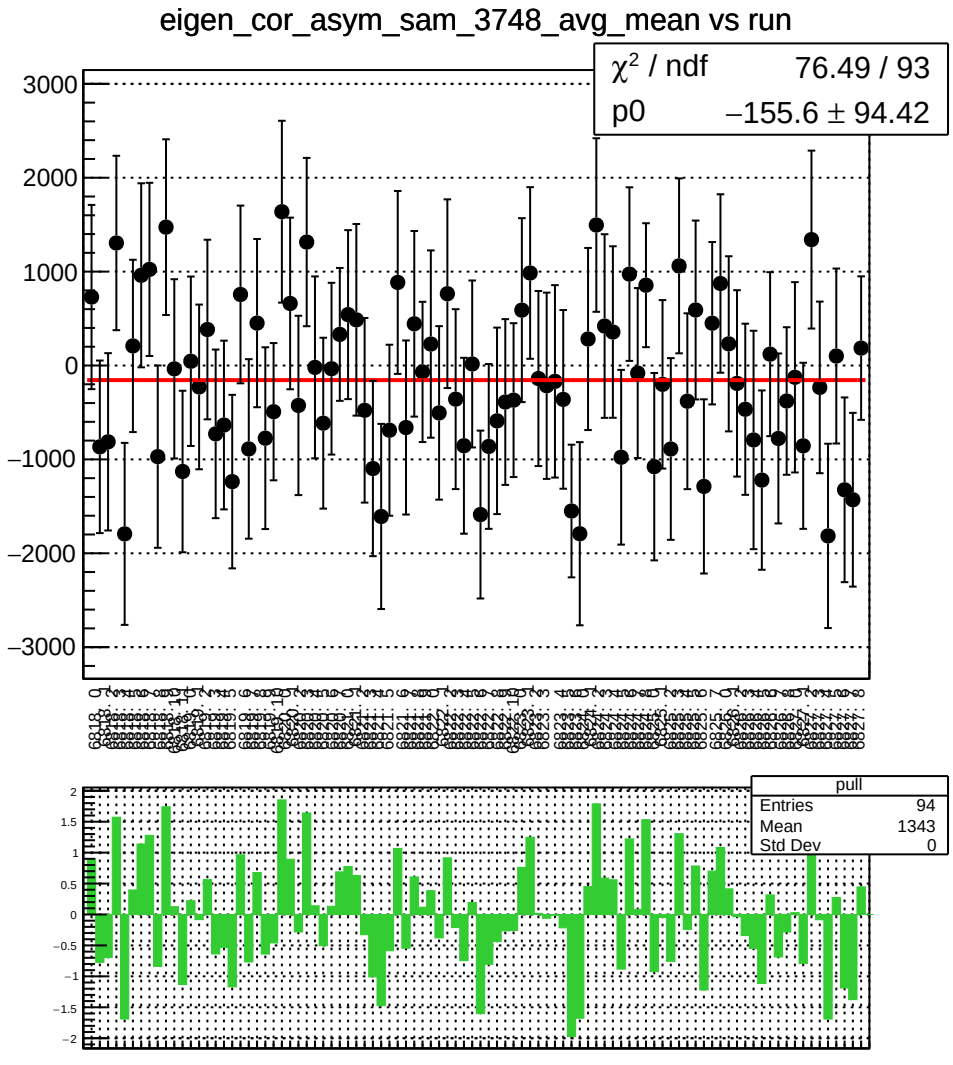

pull1D
Entries 94
Mean −0.002068
Std Dev 0.9021

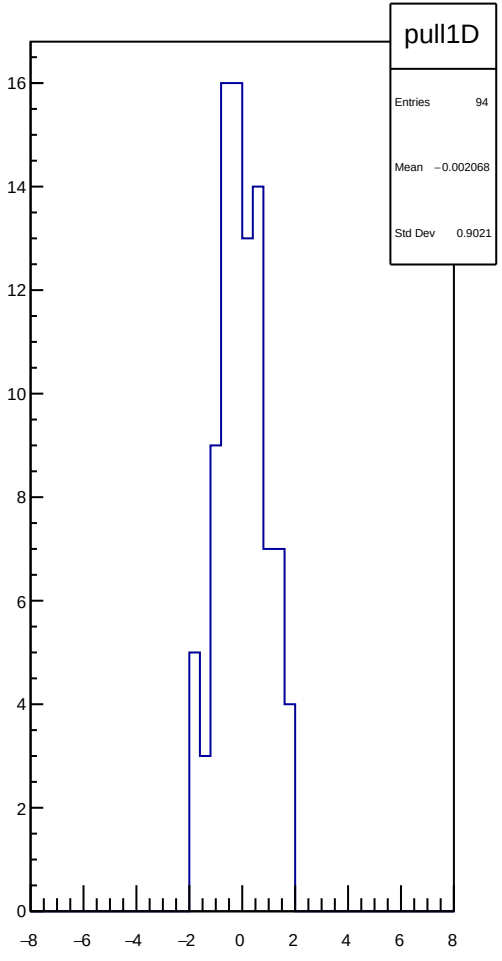

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3232 / 93
p0 89.37 ± 0.06677
110
105
100
95
90
85
80

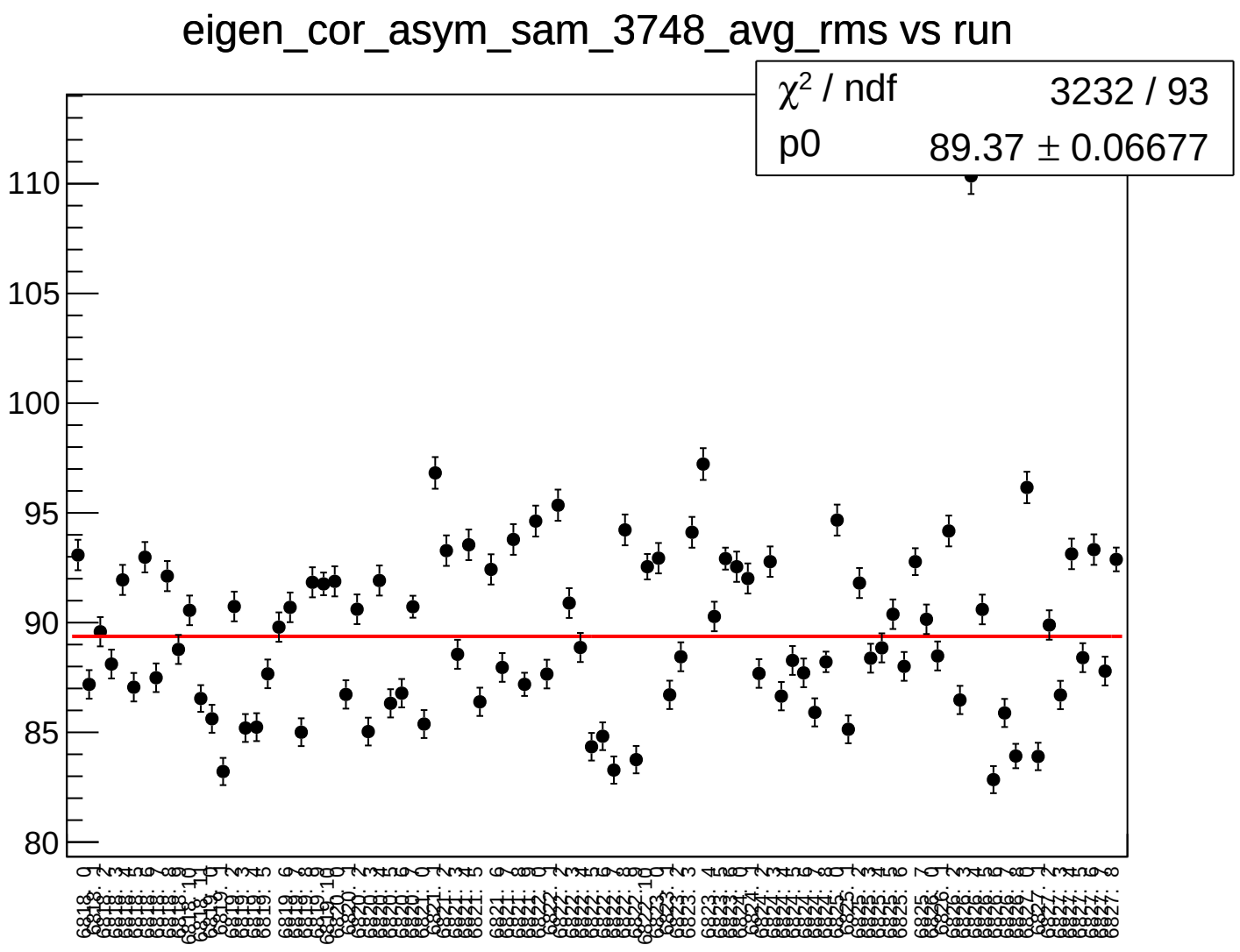

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 75.05 / 93
p0 −616.9 ± 919.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −163.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

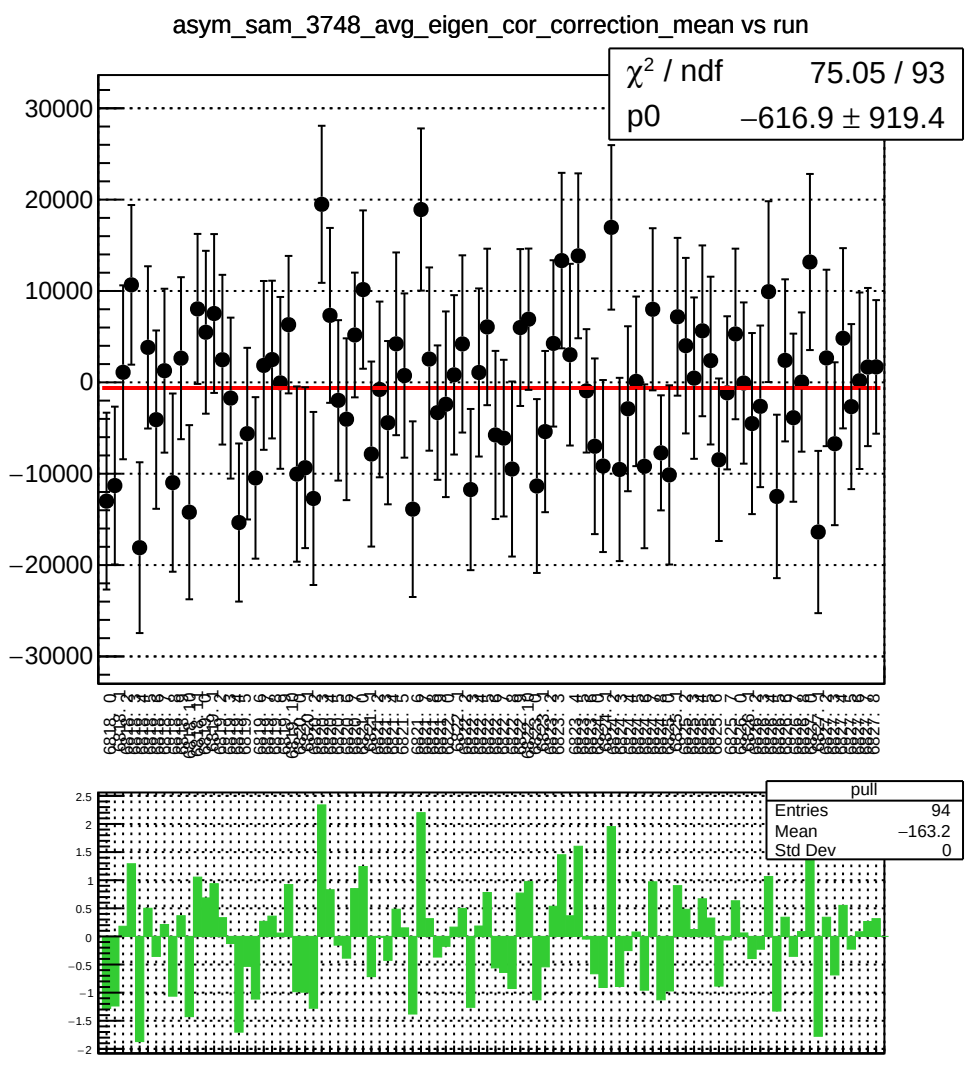

pull1D
Entries 94
Mean −0.008288
Std Dev 0.8935
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

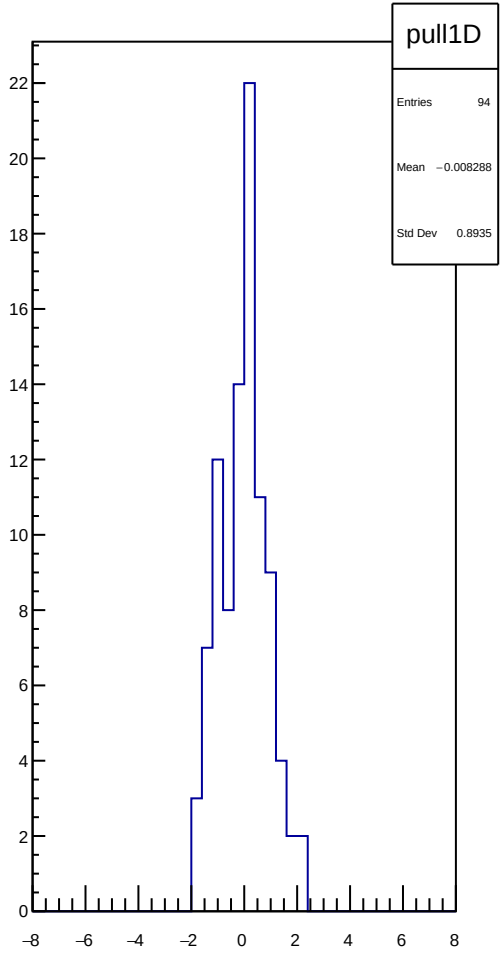

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 3858 / 93
p0 870.1 ± 0.6501
980
960
940
920
900
880
860
840
820
800

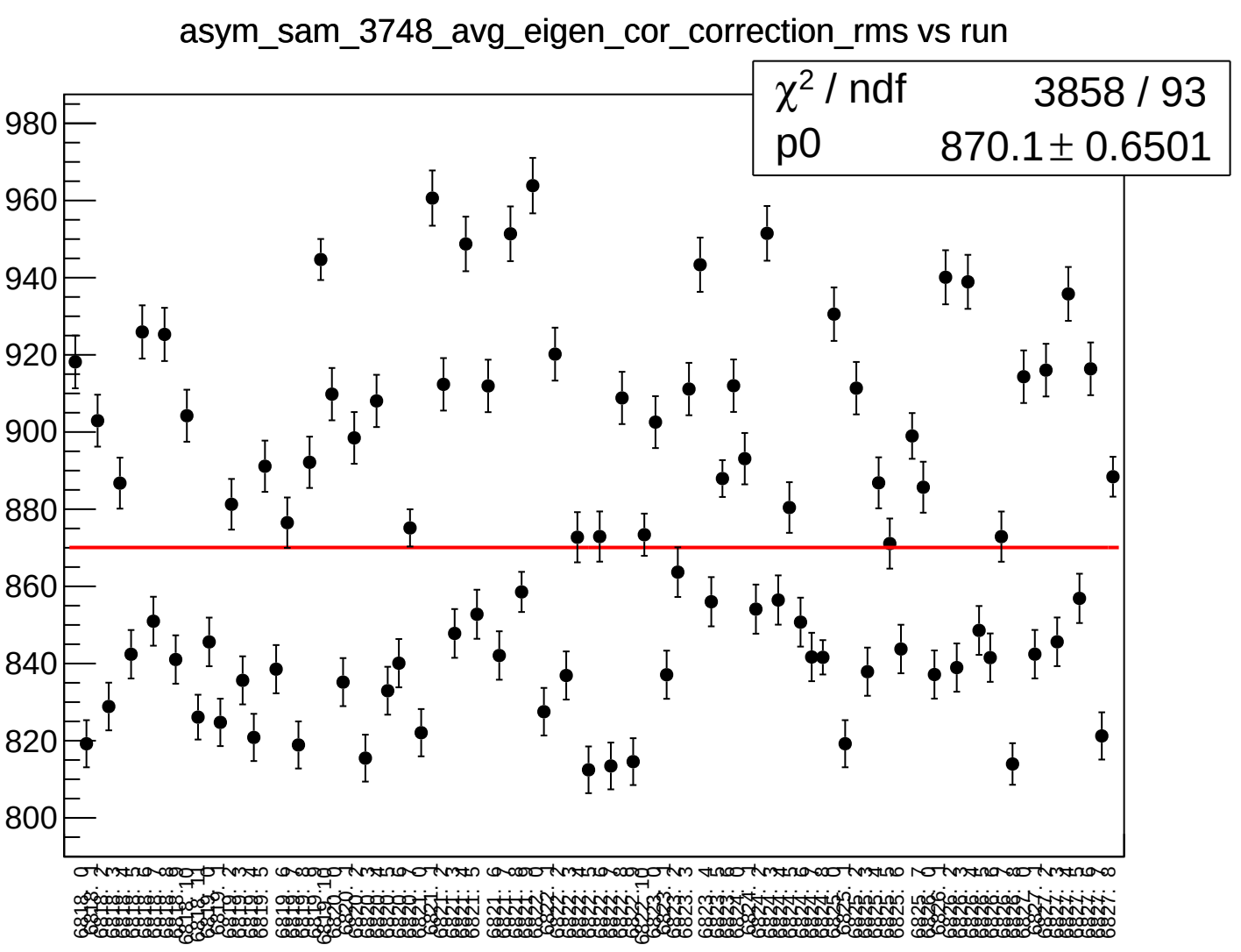

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 76.49 / 93
p0 −155.6 ± 94.42
pull
Entries 94
Mean 1343
Std Dev 0

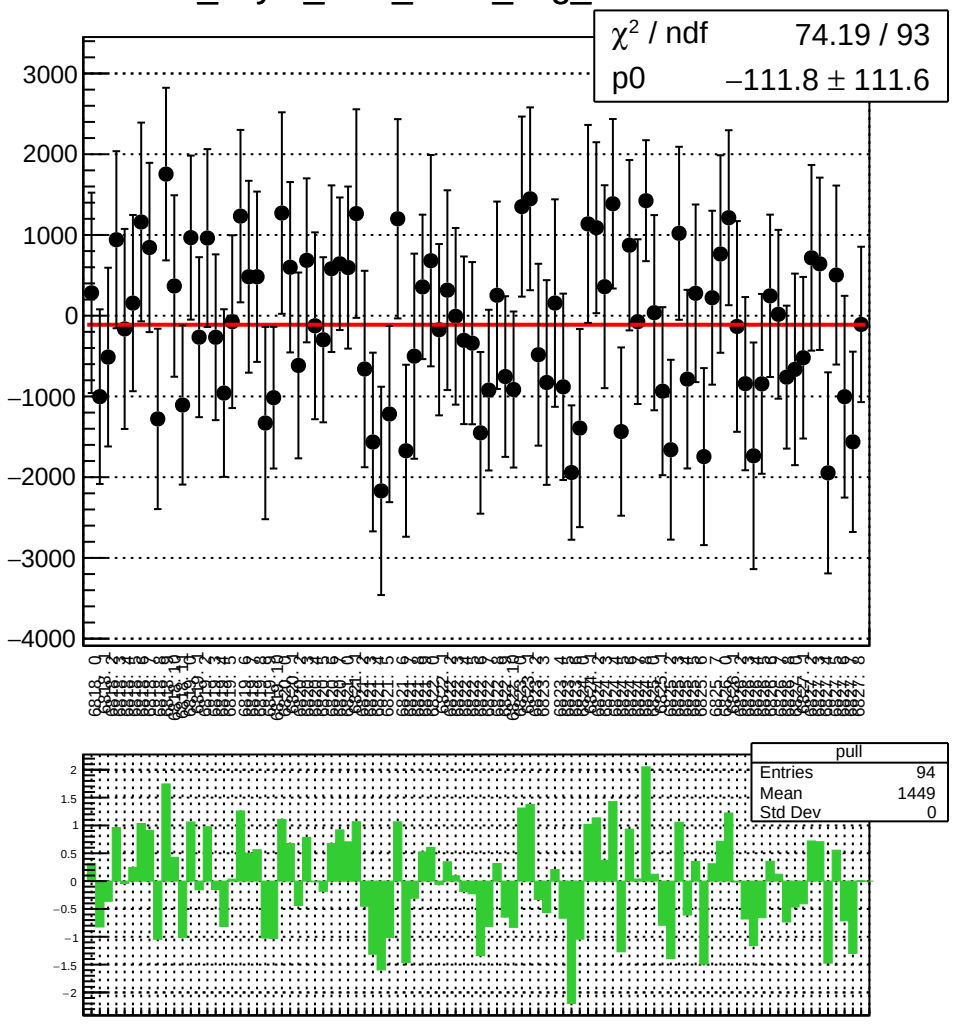

pull1D
Entries 94
Mean −0.002068
Std Dev 0.9021

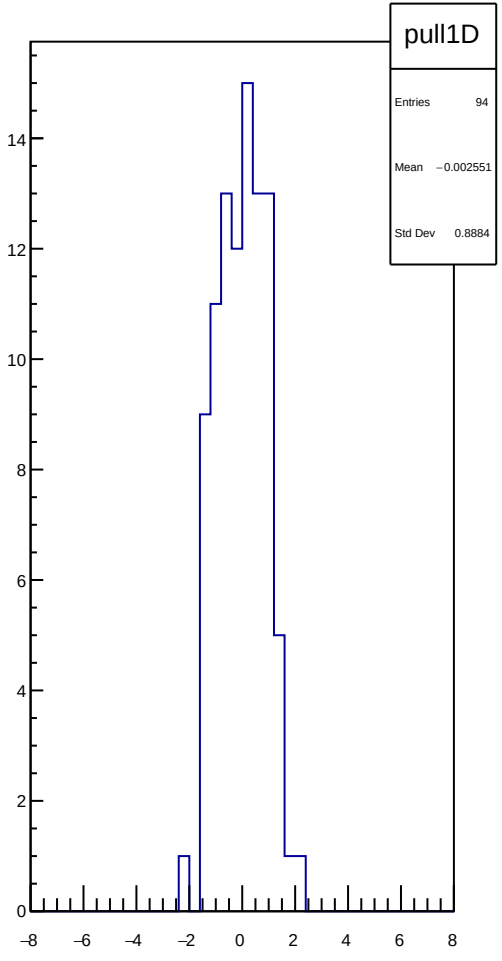

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3232 / 93
p0 89.37 ± 0.06677
110
105
100
95
90
85
80

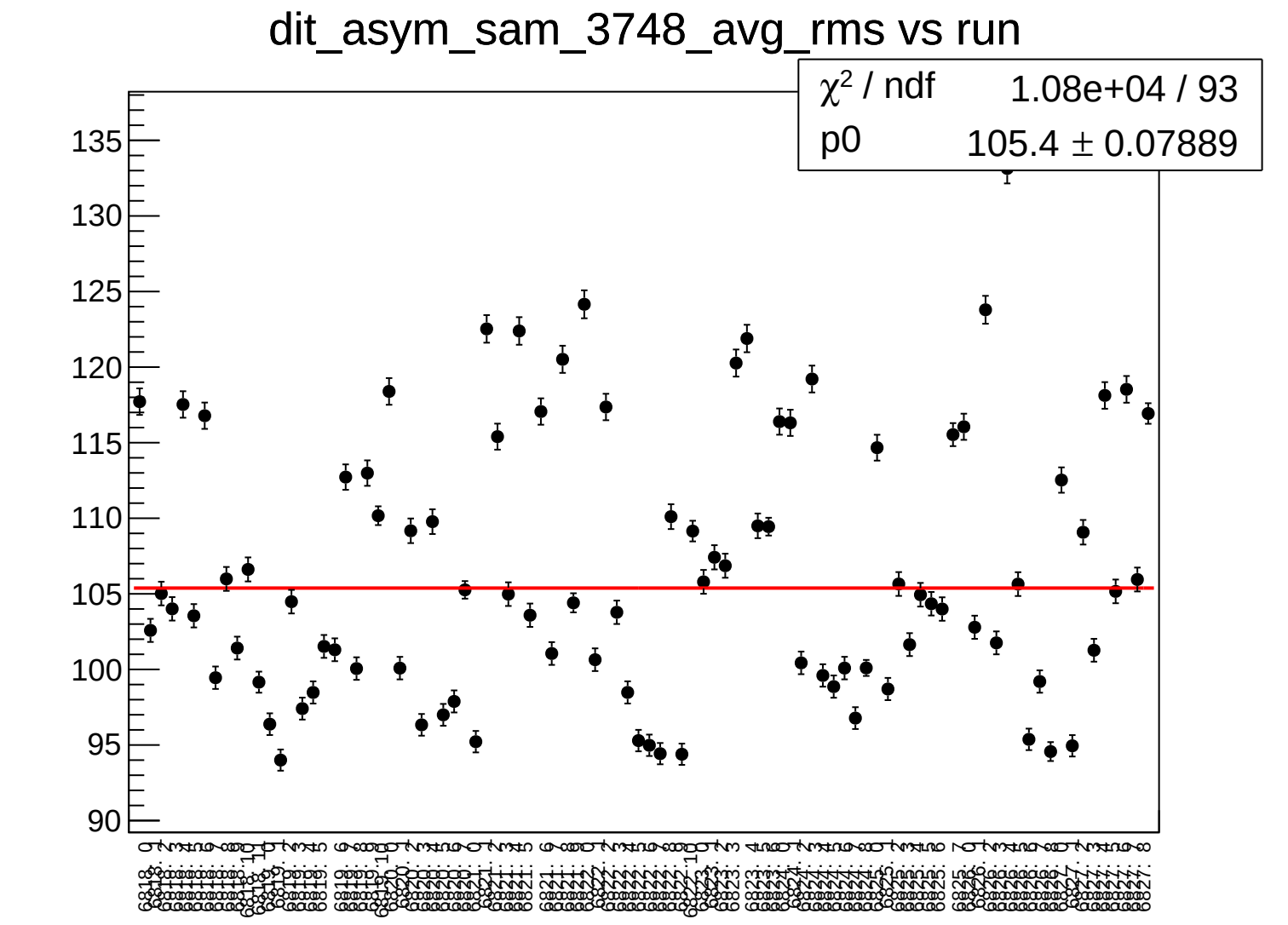

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.05 / 93
p0 −616.9 ± 919.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −163.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

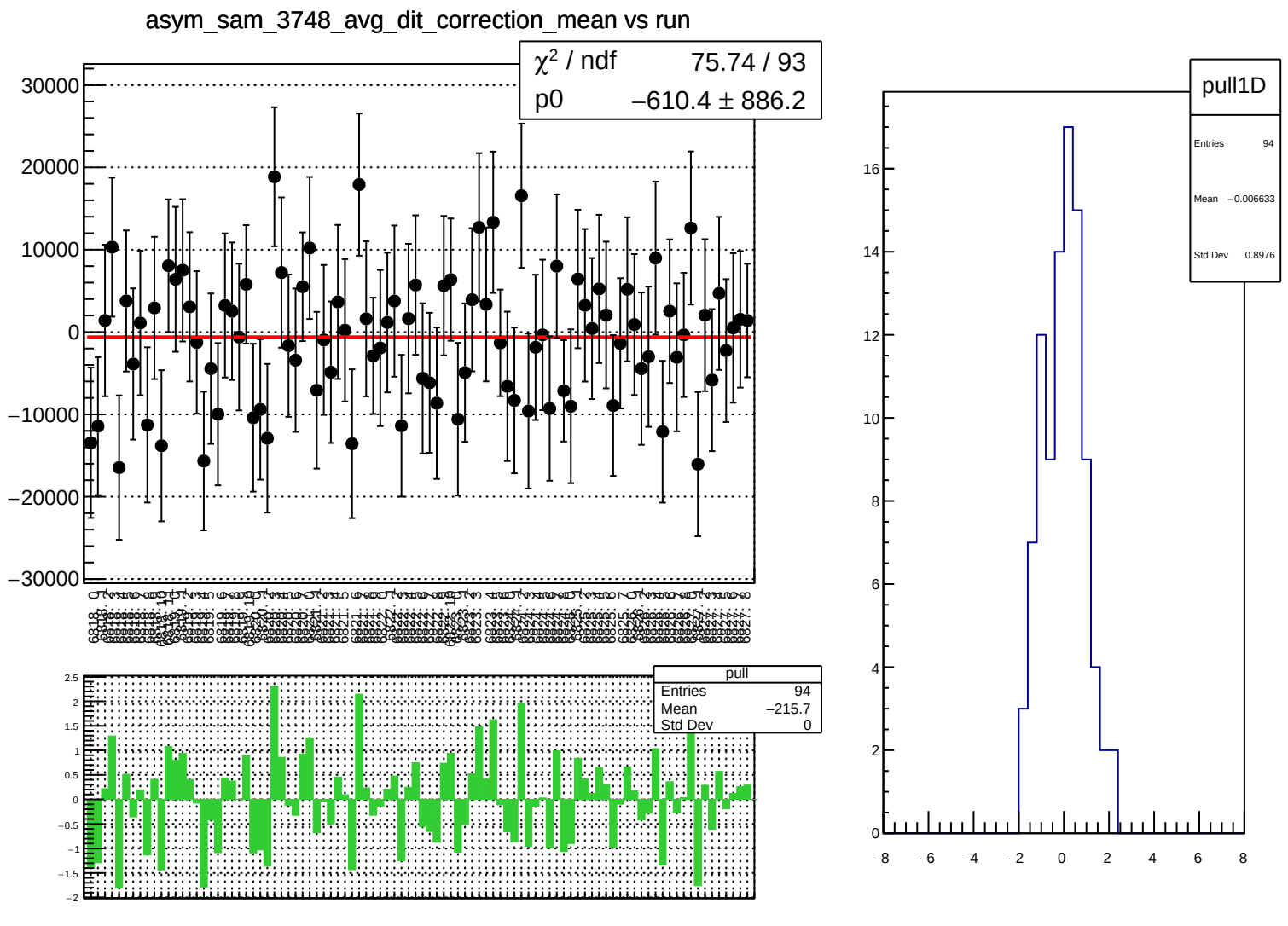

pull1D
Entries 94
Mean −0.008288
Std Dev 0.8935
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

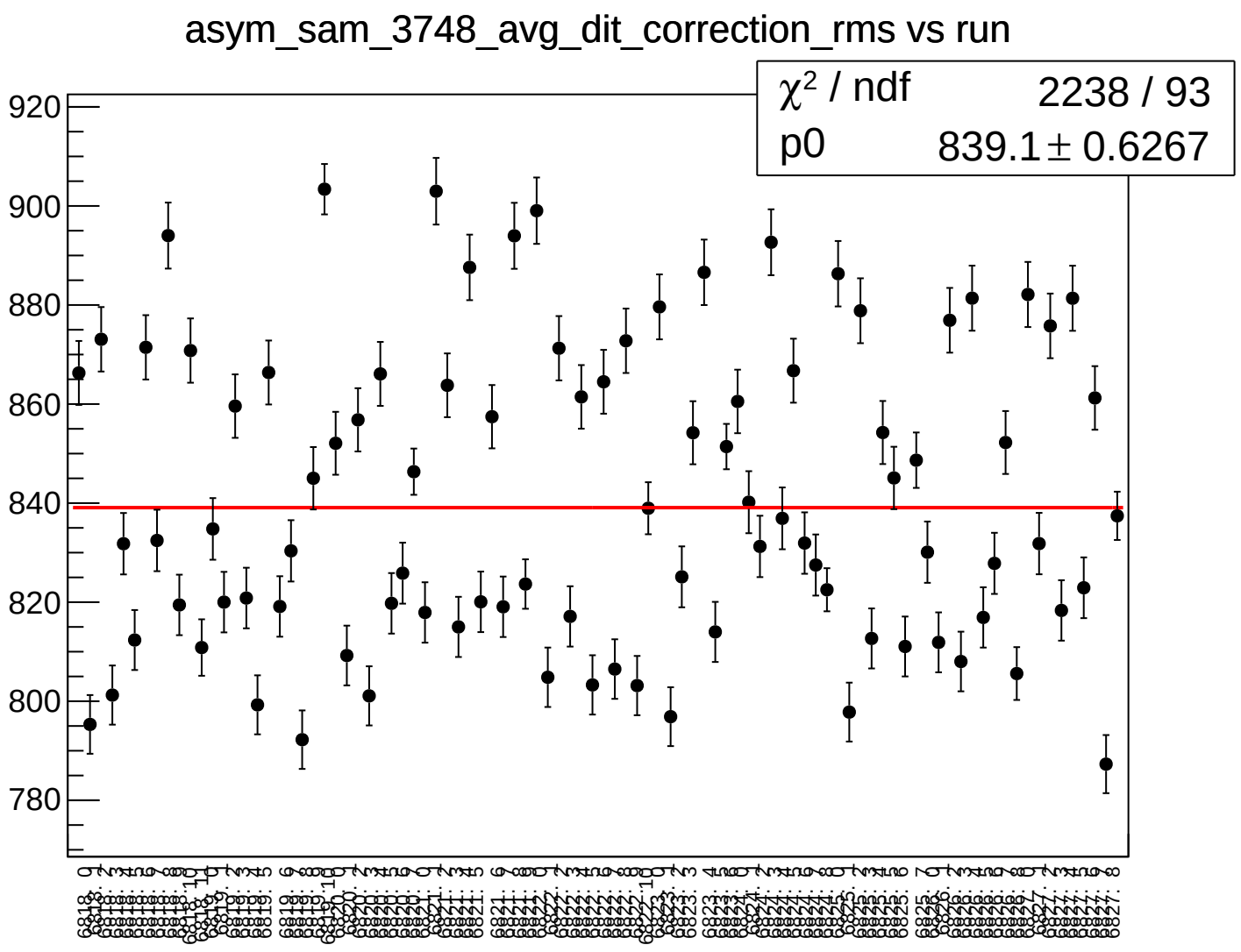

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 3858 / 93
p0 870.1 ± 0.6501
980
960
940
920
900
880
860
840
820
800

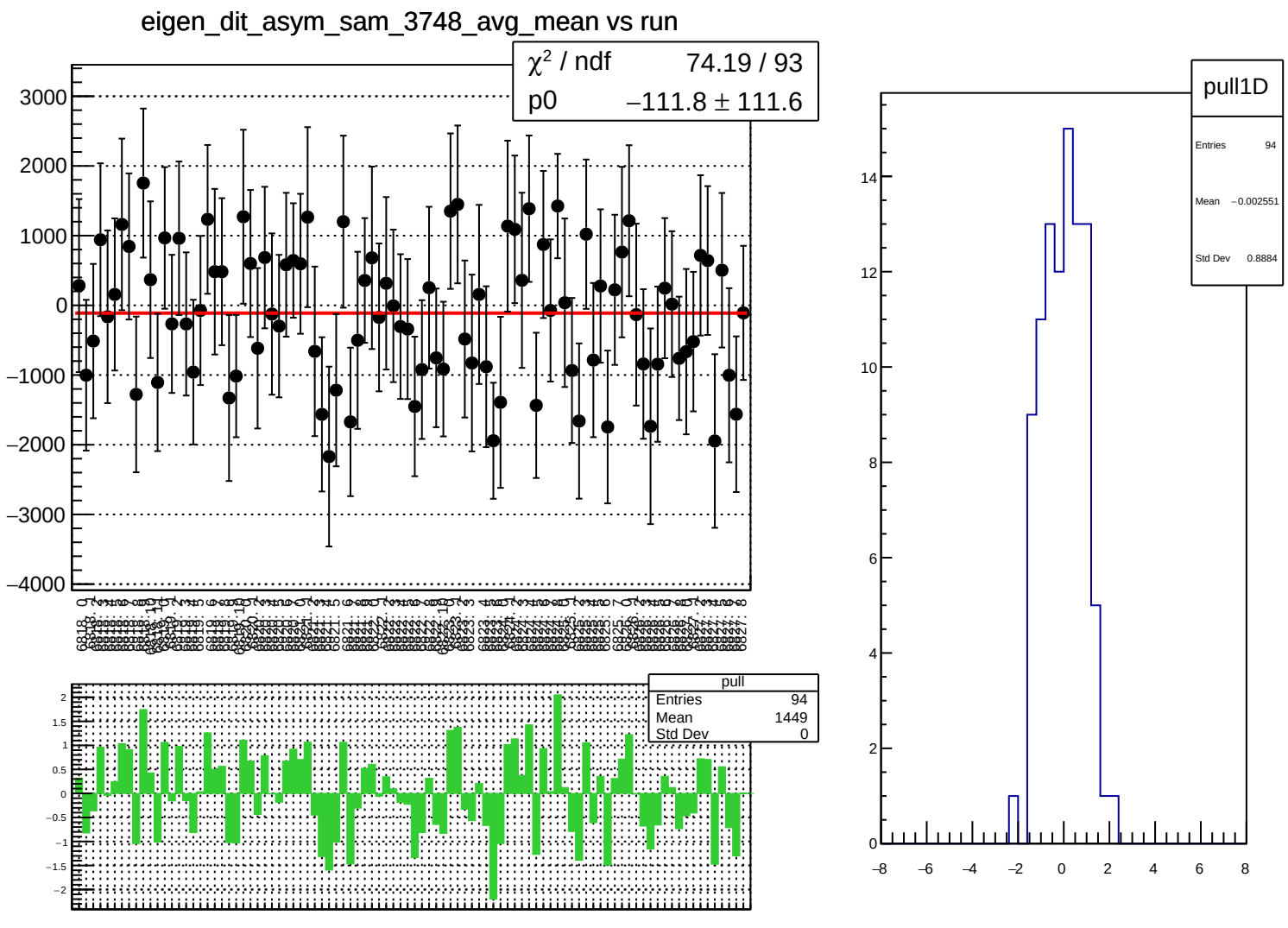

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 74.19 / 93
p0 −111.8 ± 111.6
pull
Entries 94
Mean 1449
Std Dev 0

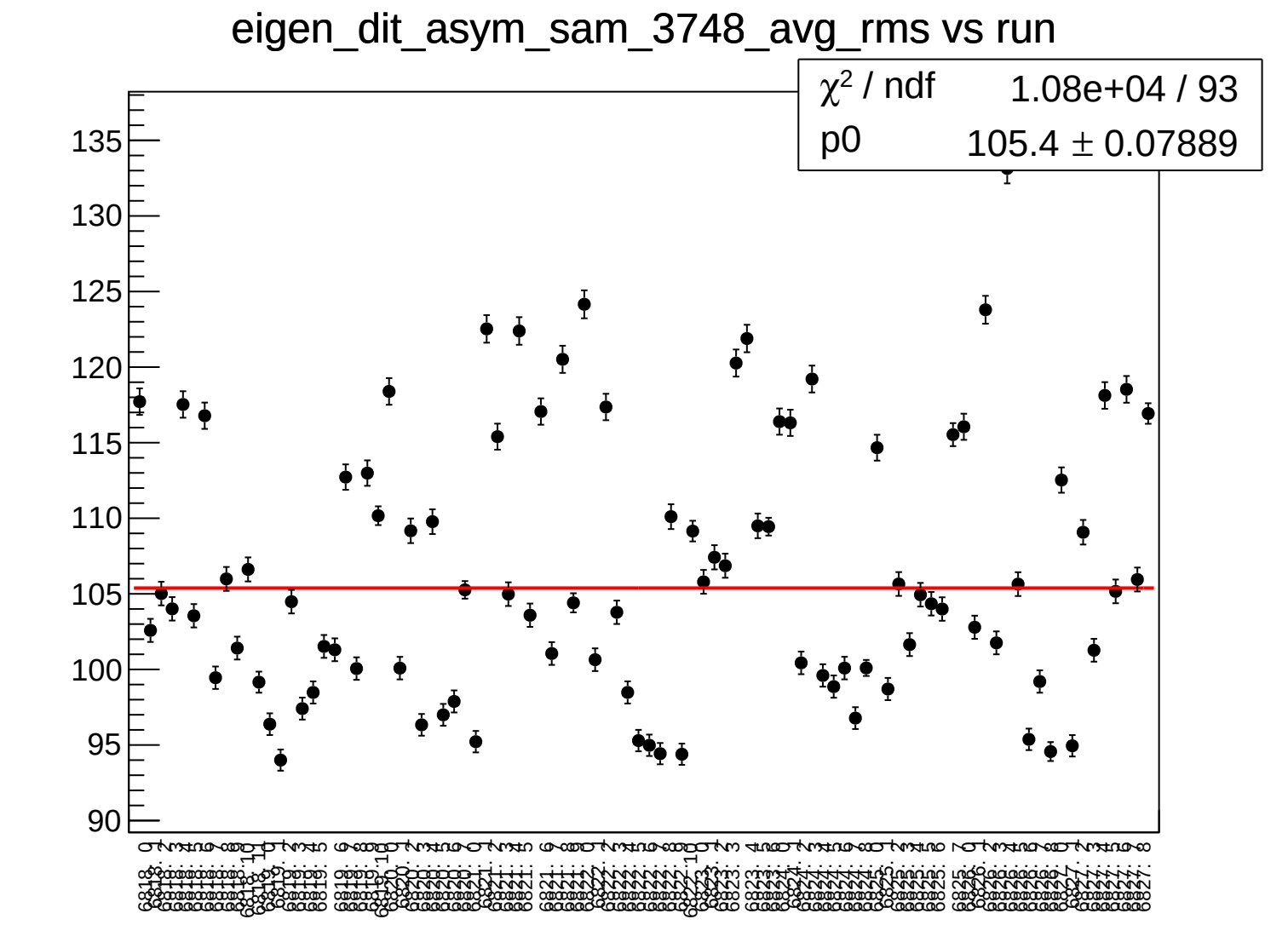

pull1D
Entries 94
Mean −0.002551
Std Dev 0.8884

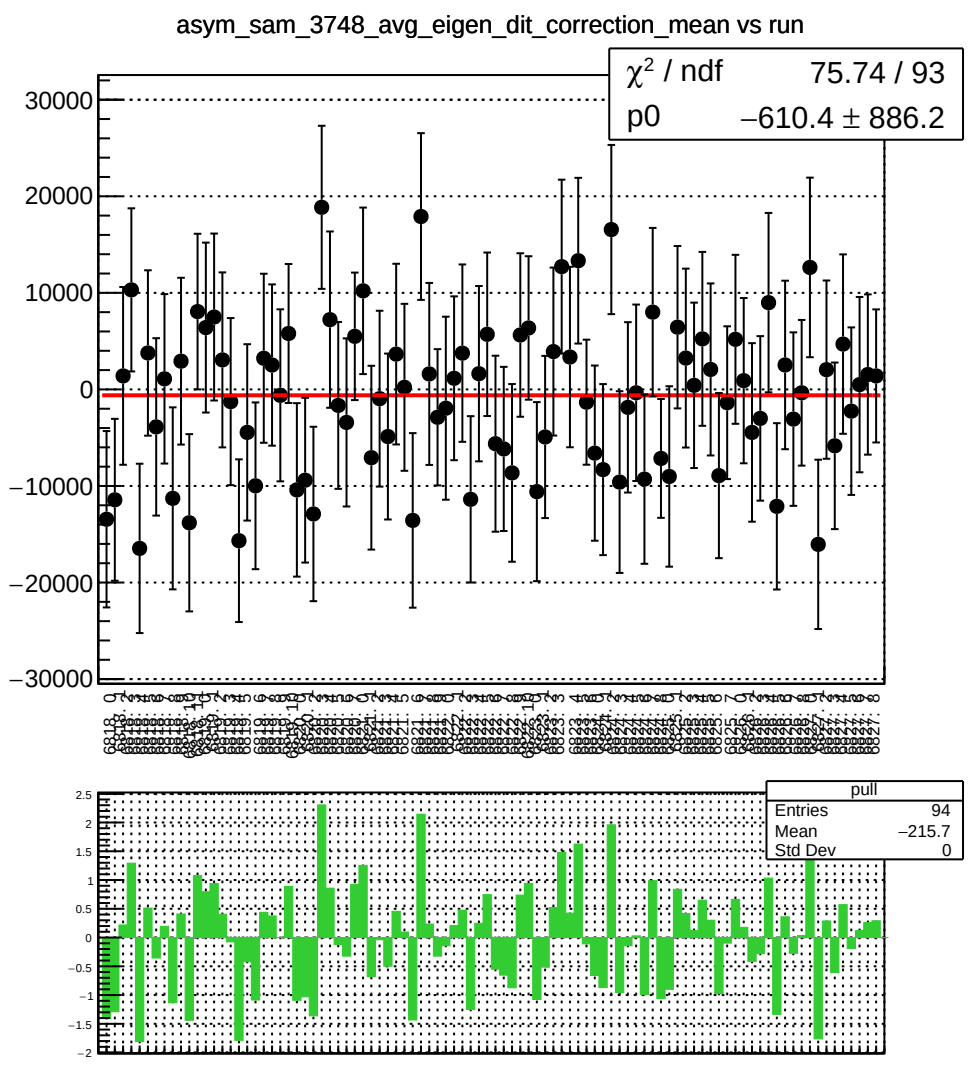

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.08e+04 / 93
p0 105.4 ± 0.07889
135
130
125
120
115
110
105
100
95
90

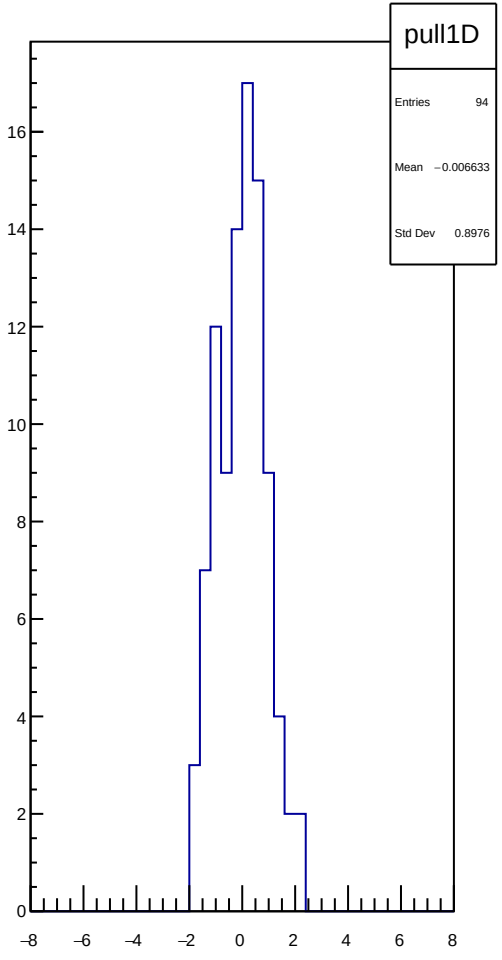

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 75.74 / 93
p0 −610.4 ± 886.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −215.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.006633
Std Dev 0.8976
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

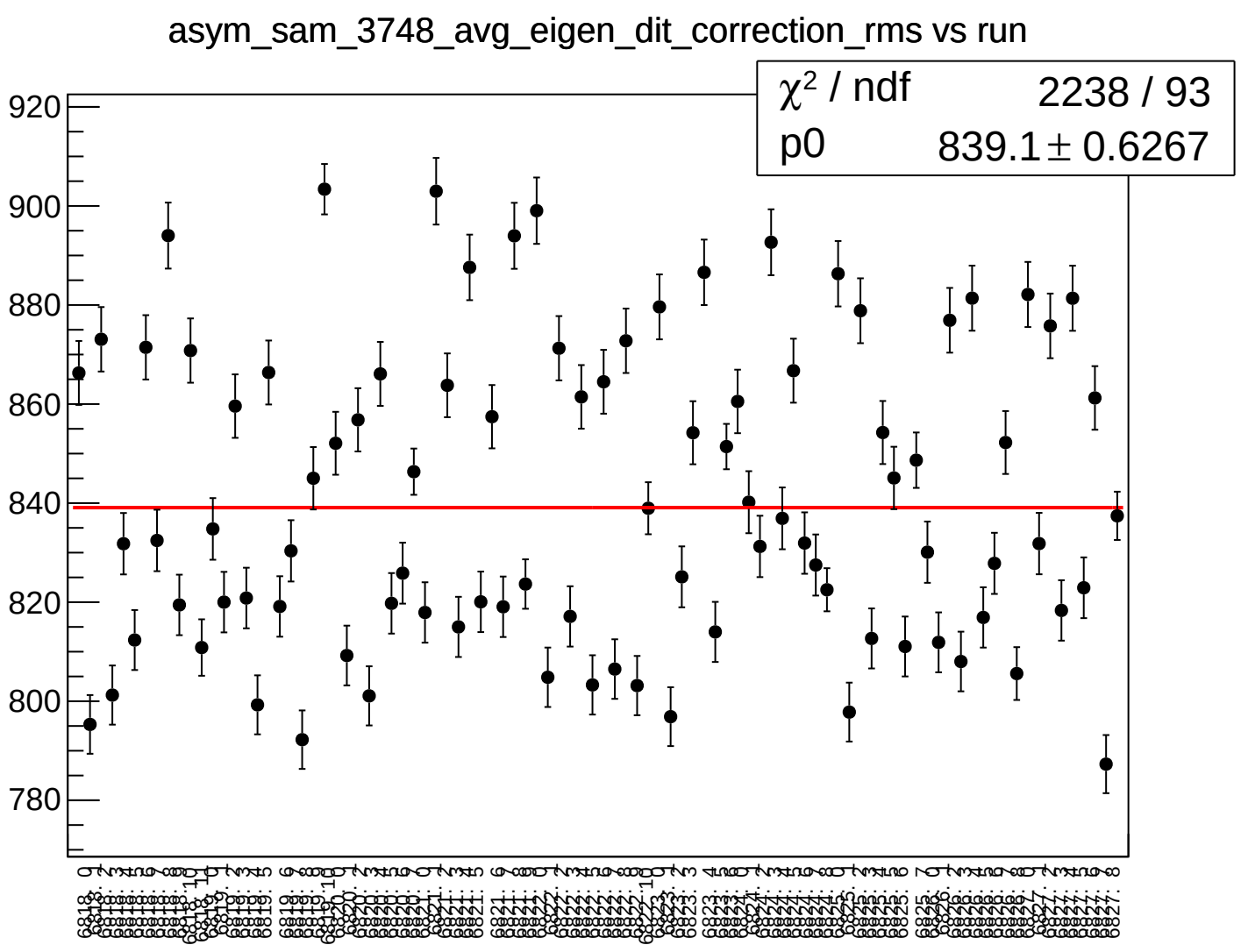

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 2238 / 93
p0 839.1 ± 0.6267
920
900
880
860
840
820
800
780

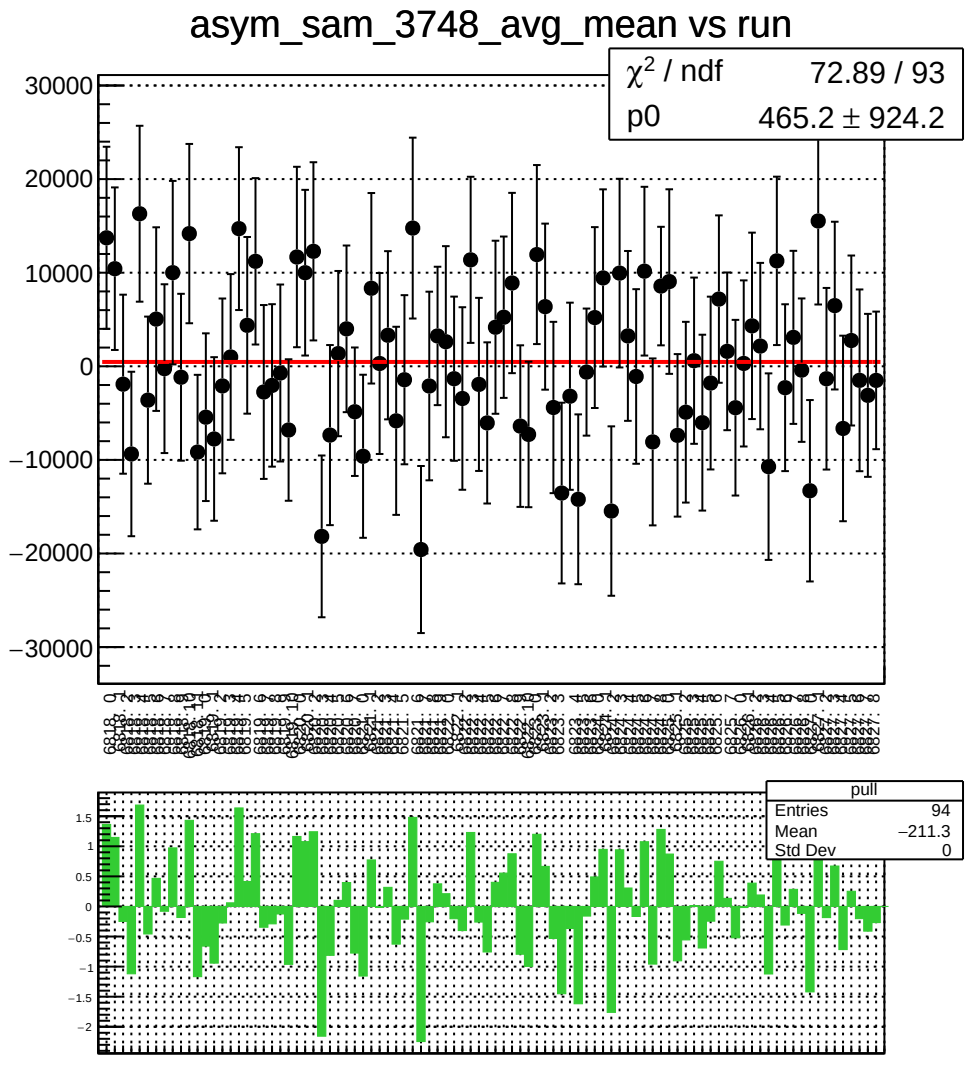

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 74.19 / 93
p0 −111.8 ± 111.6
pull
Entries 94
Mean 1449
Std Dev 0
pull1D
Entries 94
Mean −0.002551
Std Dev 0.8884

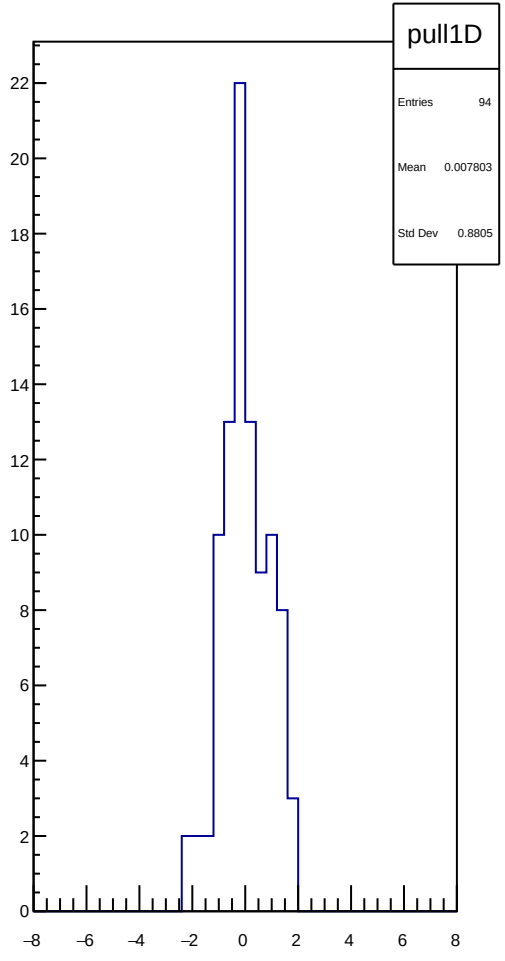

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.08e+04 / 93
p0 105.4 ± 0.07889
135
130
125
120
115
110
105
100
95
90

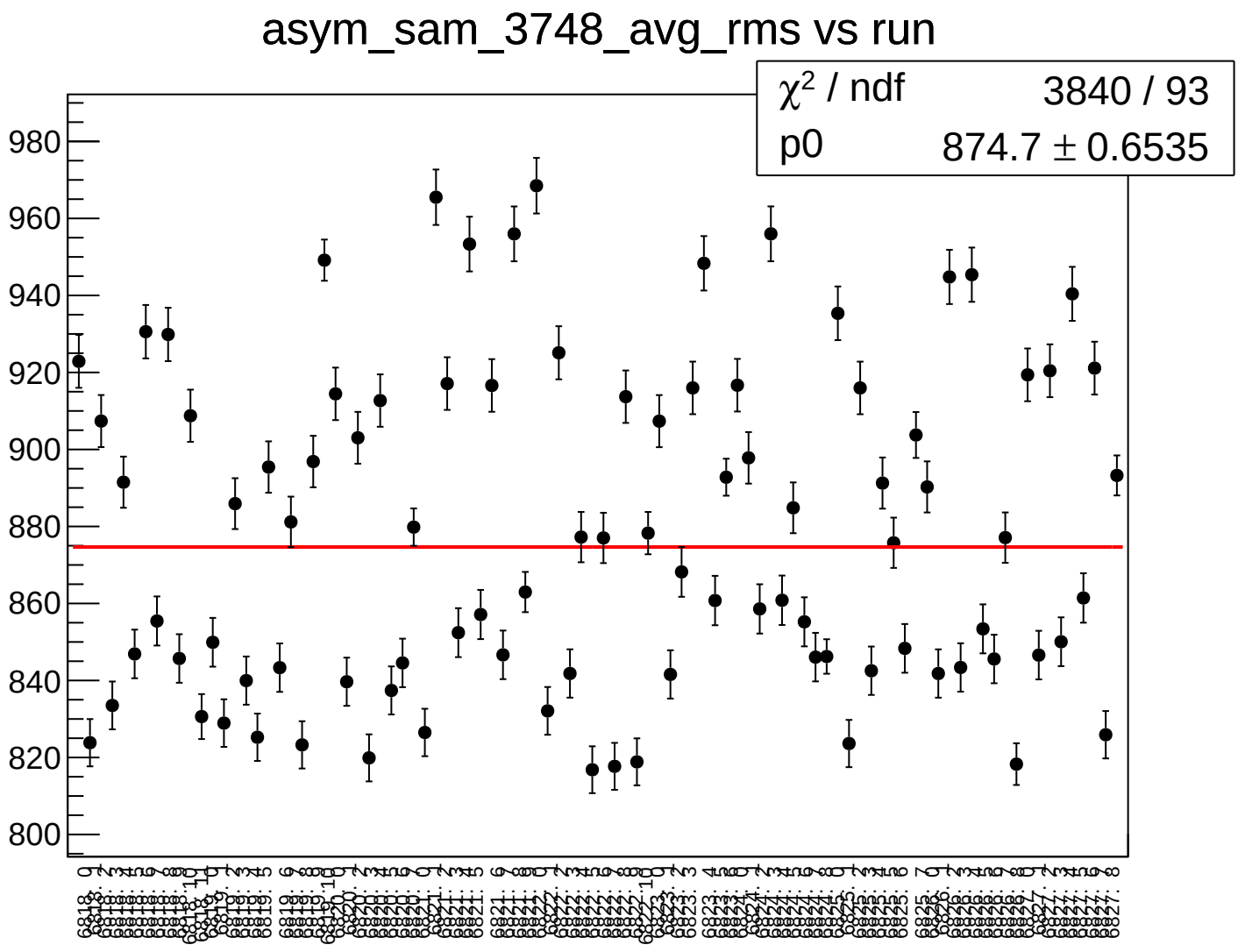

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.74 / 93
p0 −610.4 ± 886.2
pull
Entries 94
Mean −215.7
Std Dev 0

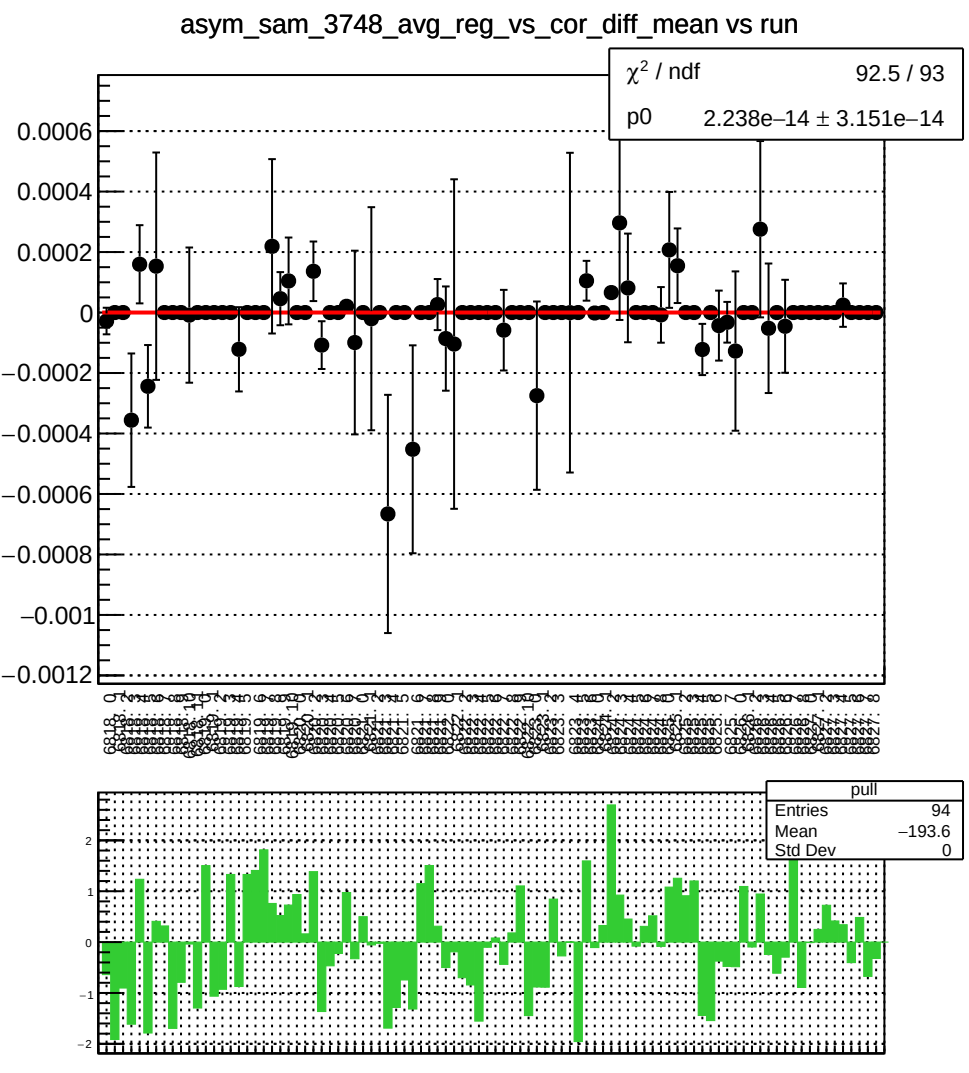

pull1D
Entries 94
Mean −0.006633
Std Dev 0.8976

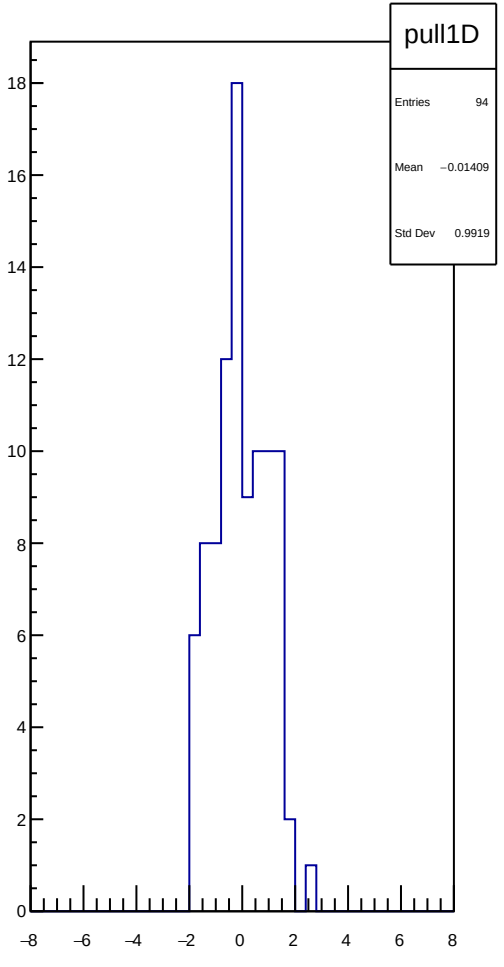

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 2238 / 93
p0 839.1 ± 0.6267
920
900
880
860
840
820
800
780

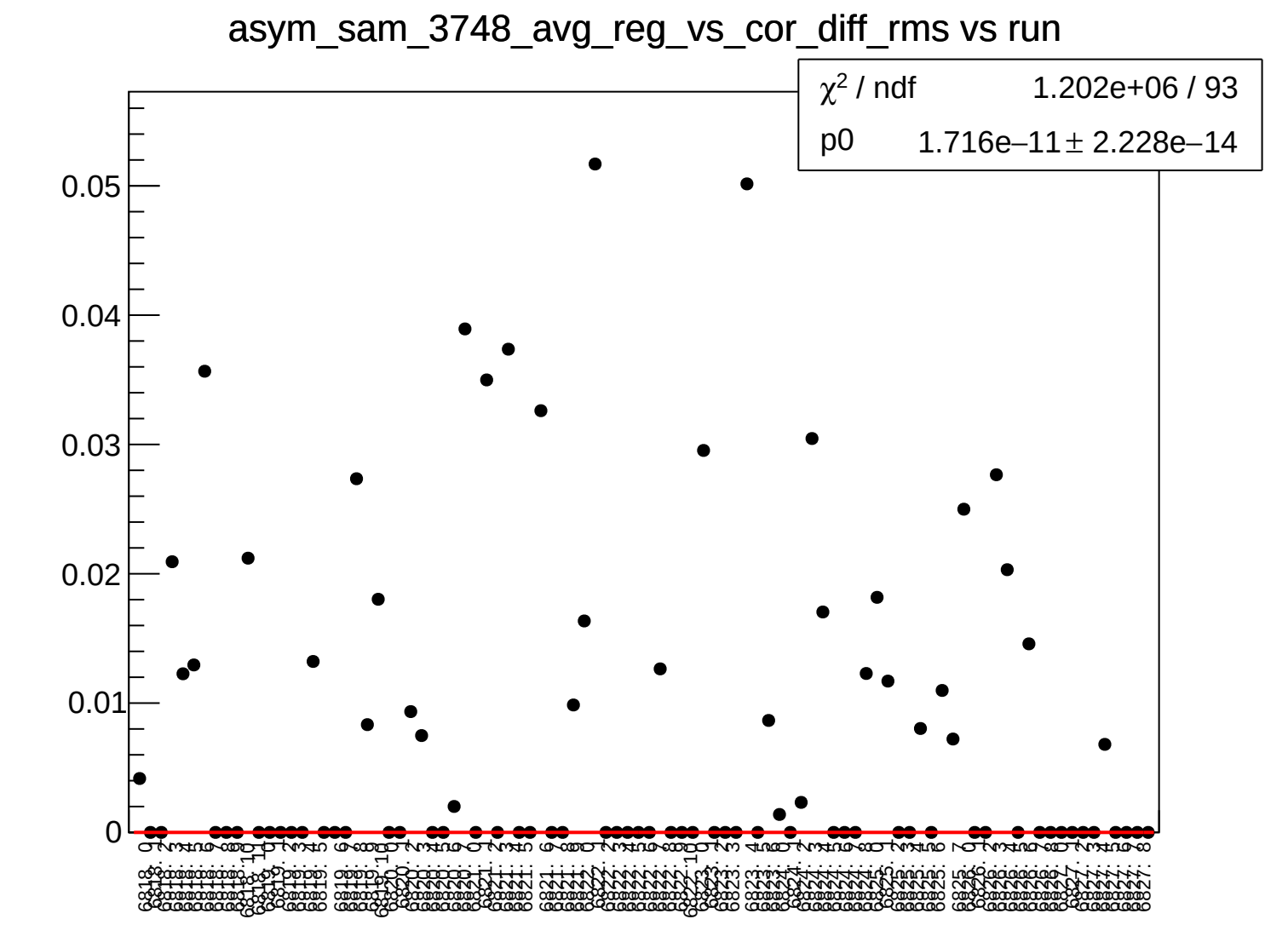

asym_sam_3748_avg_mean vs run
χ² / ndf 72.89 / 93
p0 465.2 ± 924.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 94
Mean −211.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

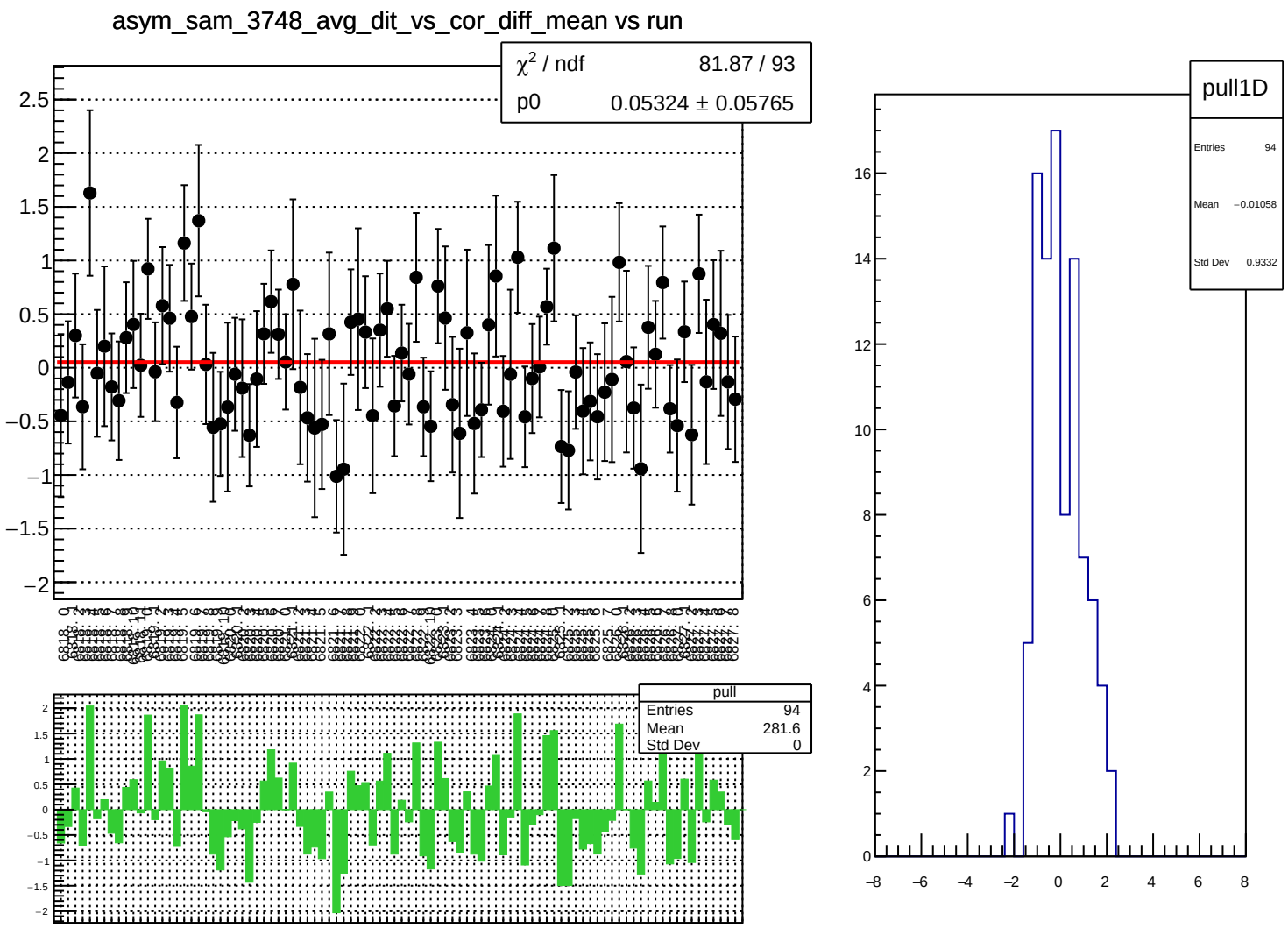

pull1D
Entries 94
Mean 0.007803
Std Dev 0.8805
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

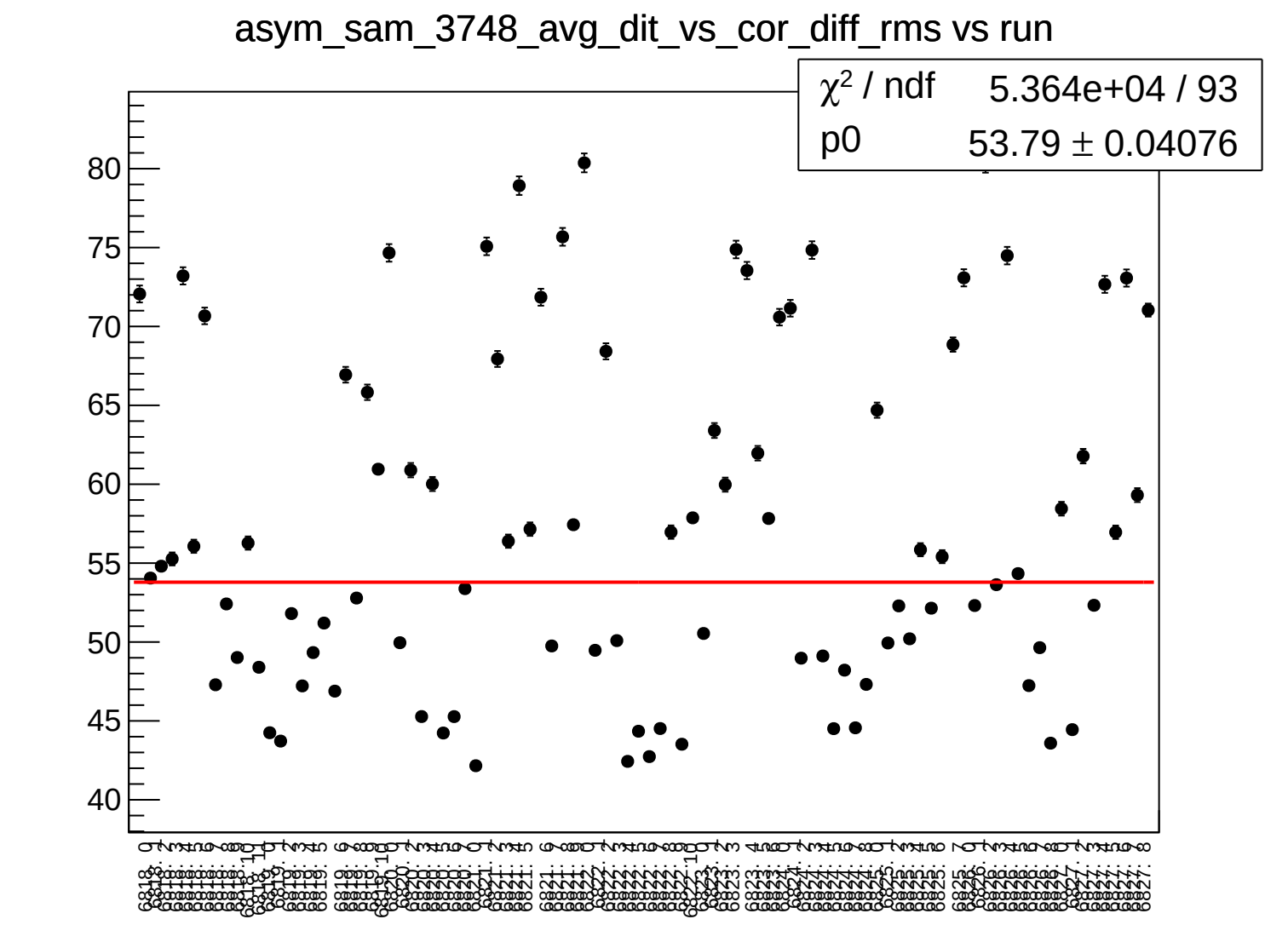

asym_sam_3748_avg_rms vs run
χ² / ndf 3840 / 93
p0 874.7 ± 0.6535
980
960
940
920
900
880
860
840
820
800

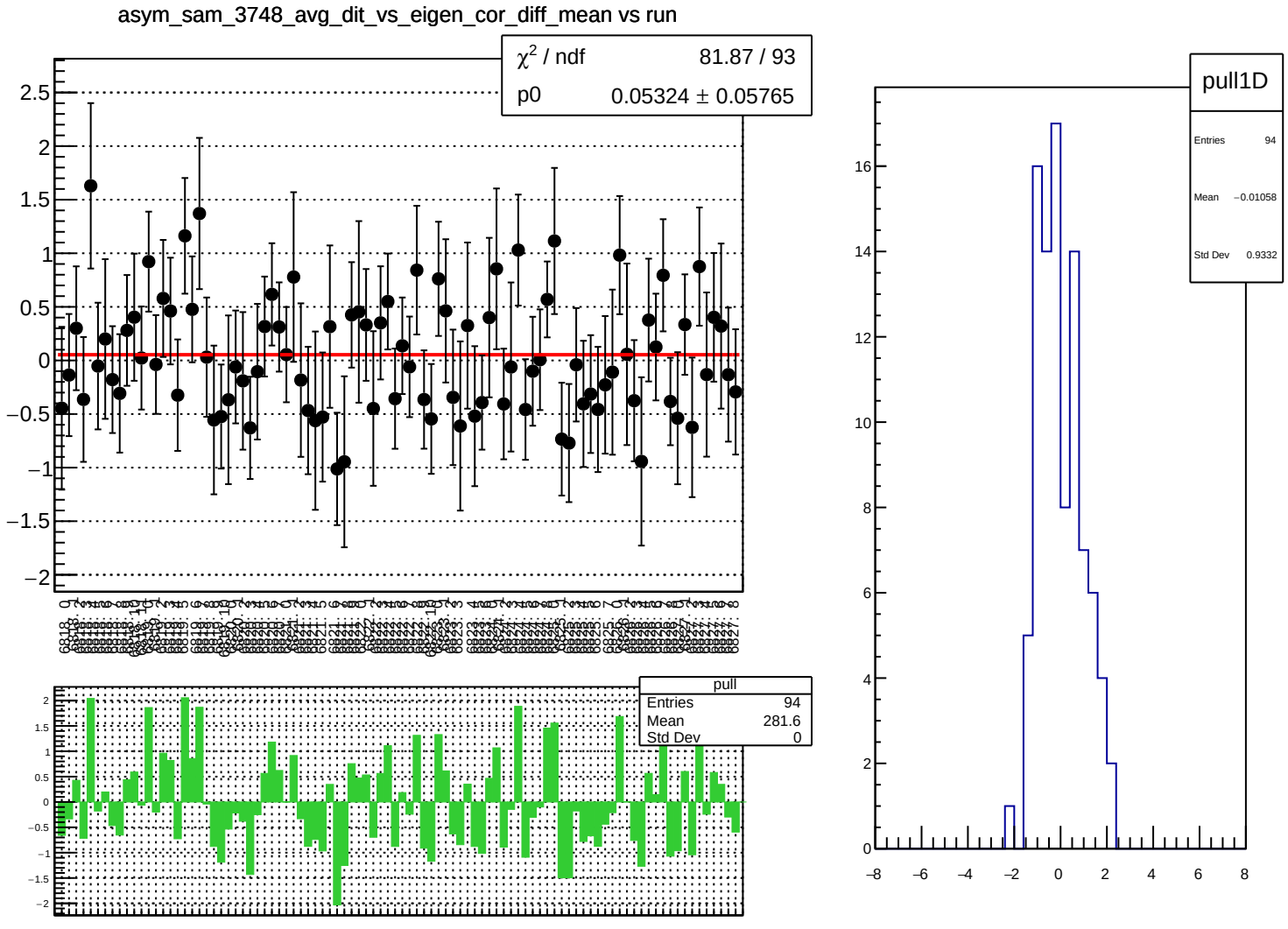

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 92.5 / 93
p0 2.238e−14 ± 3.151e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 94
Mean −193.6
Std Dev 0
2
1
0
−1
−2

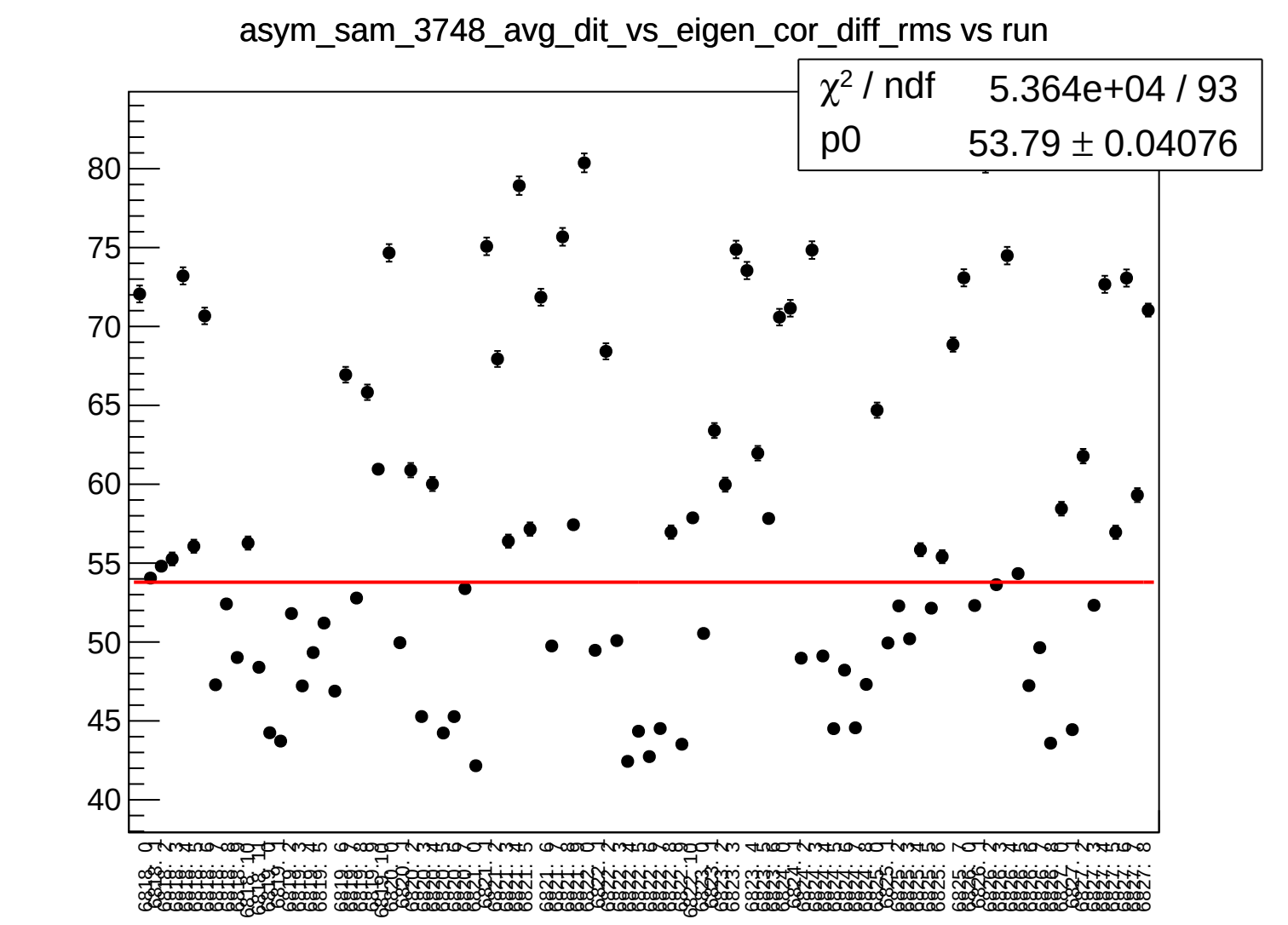

pull1D
Entries 94
Mean −0.01409
Std Dev 0.9919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

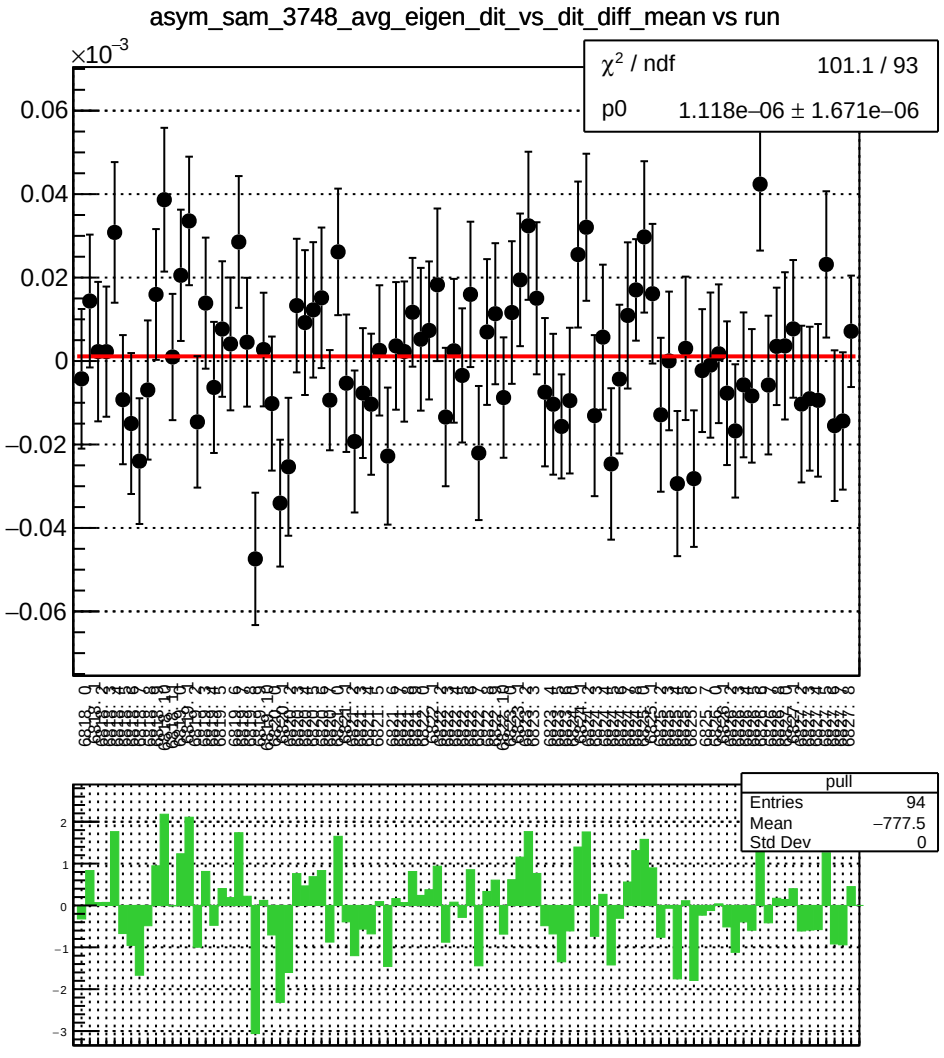

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 93
p0 1.716e−11 ± 2.228e−14
0.05
0.04
0.03
0.02
0.01
0

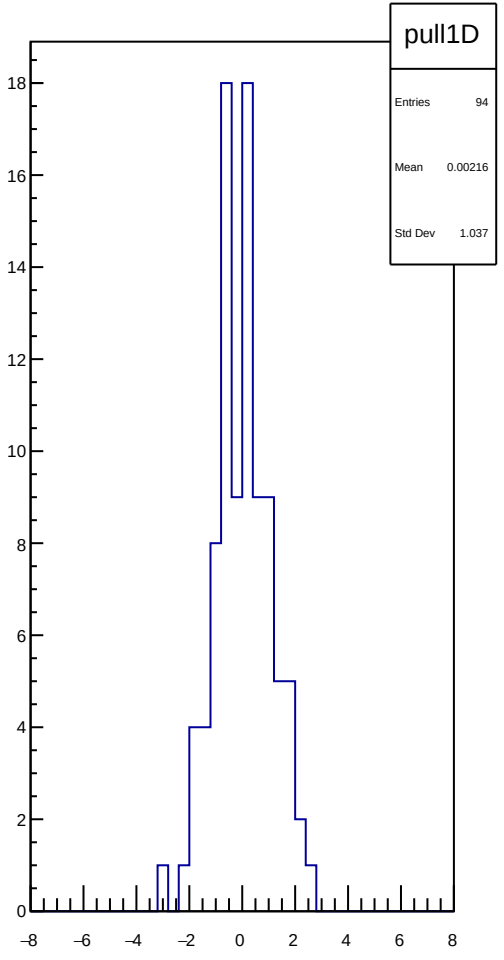

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 93
p0 0.05324 ± 0.05765
pull
Entries 94
Mean 281.6
Std Dev 0
pull1D
Entries 94
Mean −0.01058
Std Dev 0.9332

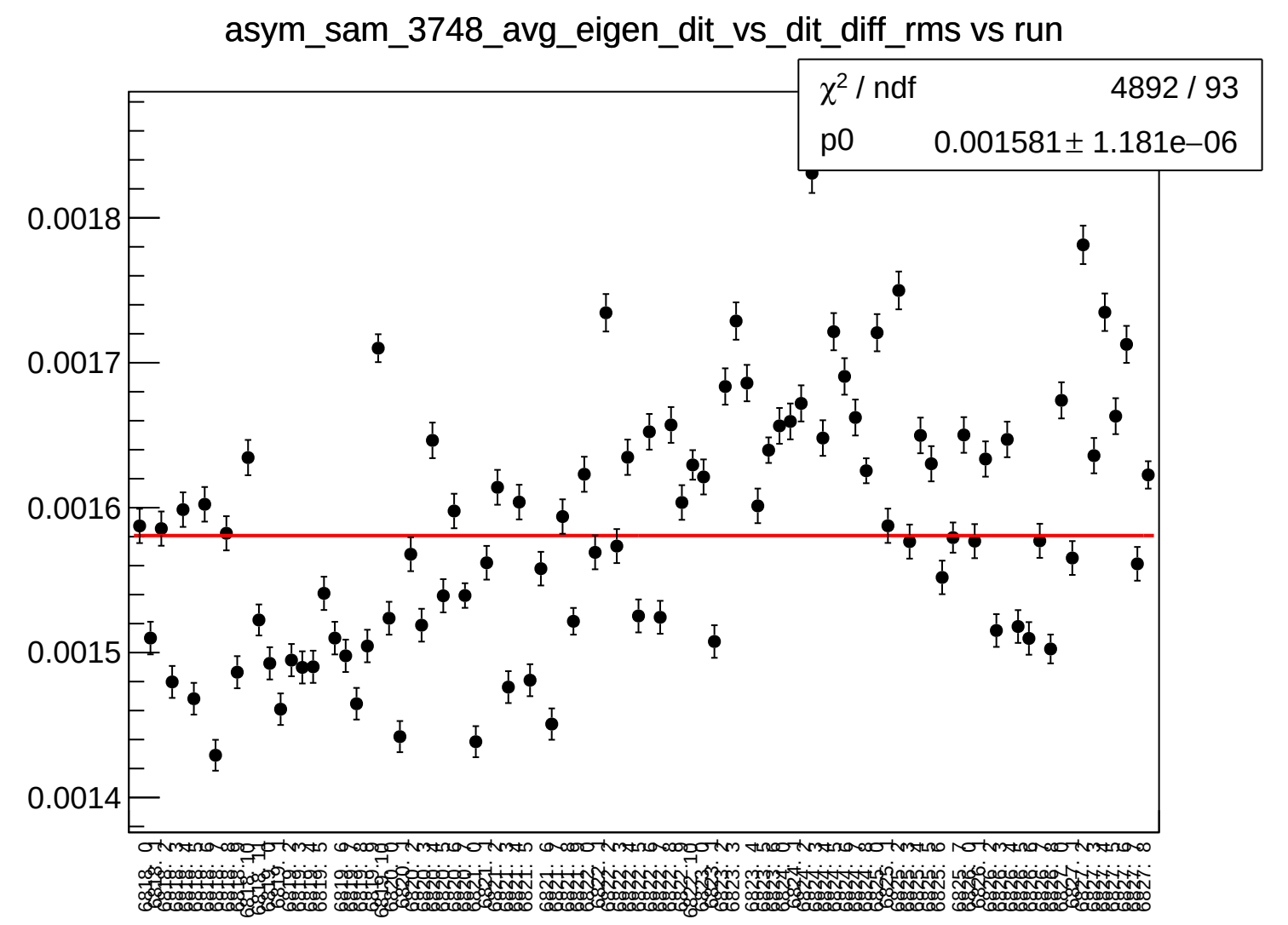

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.364e+04 / 93
p0 53.79 ± 0.04076
80
75
70
65
60
55
50
45
40

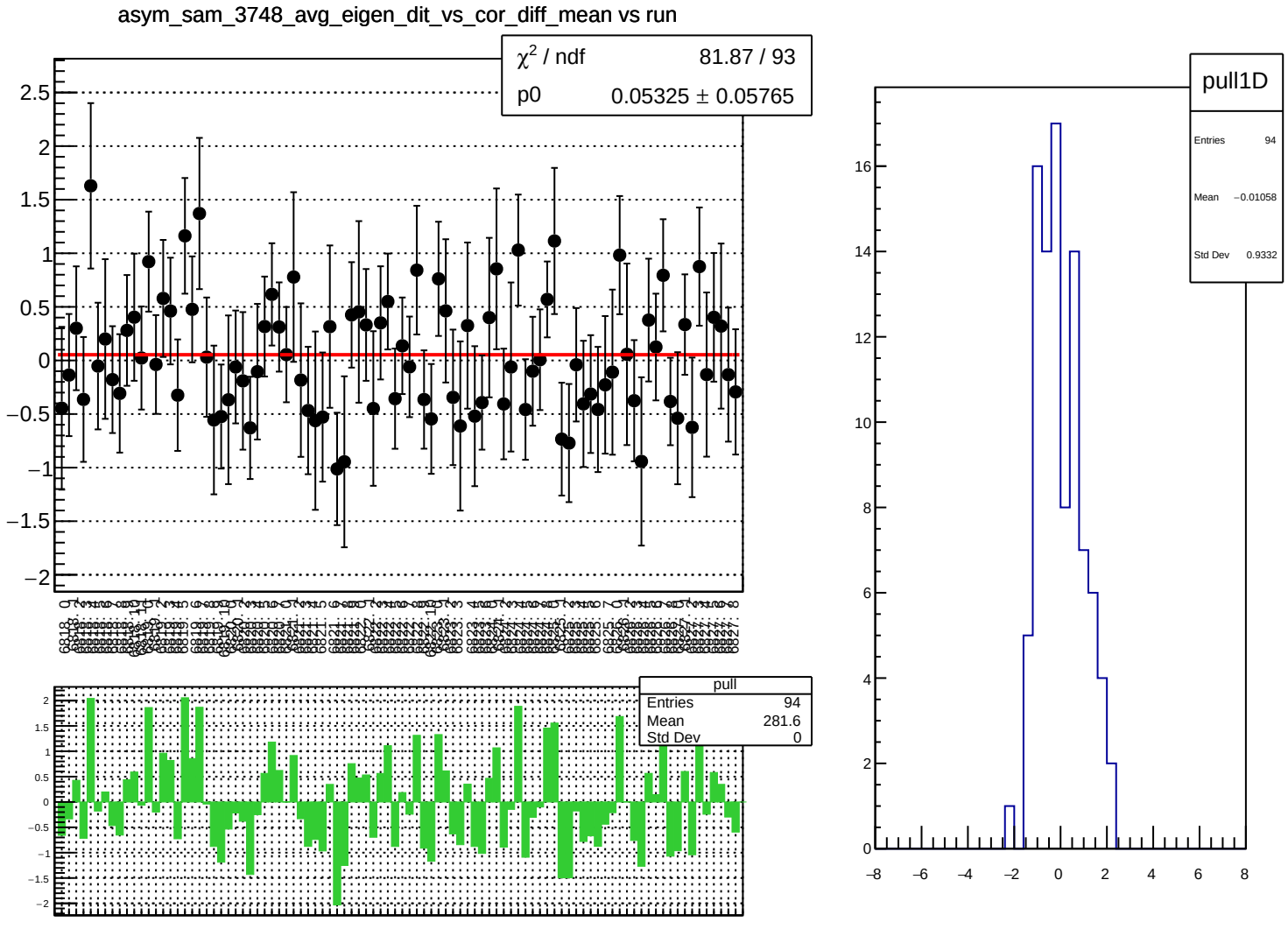

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.87 / 93
p0 0.05324 ± 0.05765
pull
Entries 94
Mean 281.6
Std Dev 0
pull1D
Entries 94
Mean −0.01058
Std Dev 0.9332

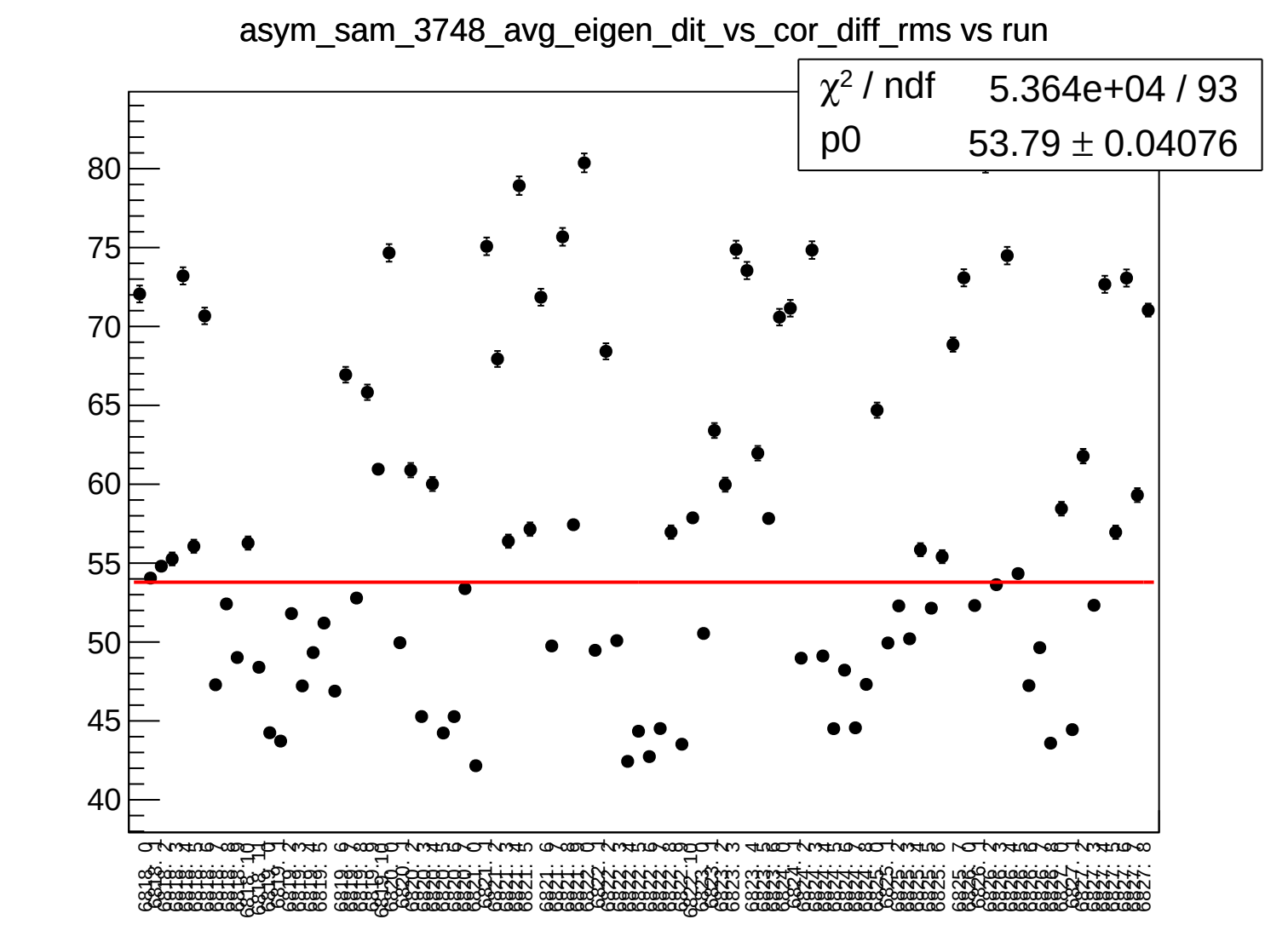

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.364e+04 / 93
p0 53.79 ± 0.04076
80
75
70
65
60
55
50
45
40

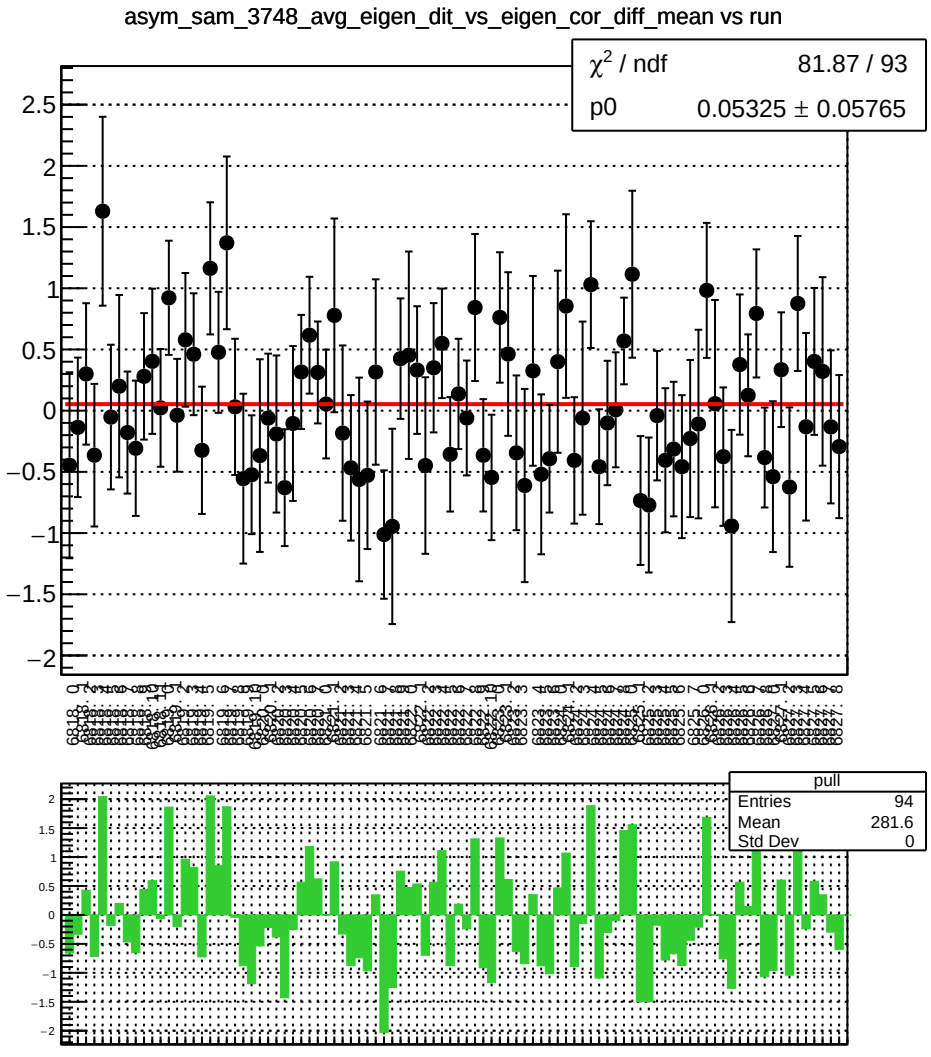

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.1 / 93
p0 1.118e−06 ± 1.671e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −777.5
Std Dev 0
2
1
0
−1
−2
−3

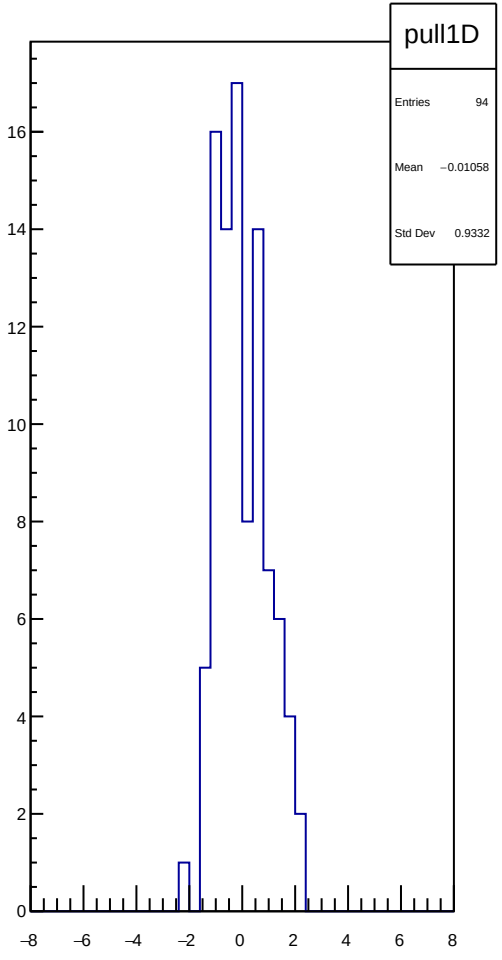

pull1D
Entries 94
Mean 0.00216
Std Dev 1.037
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

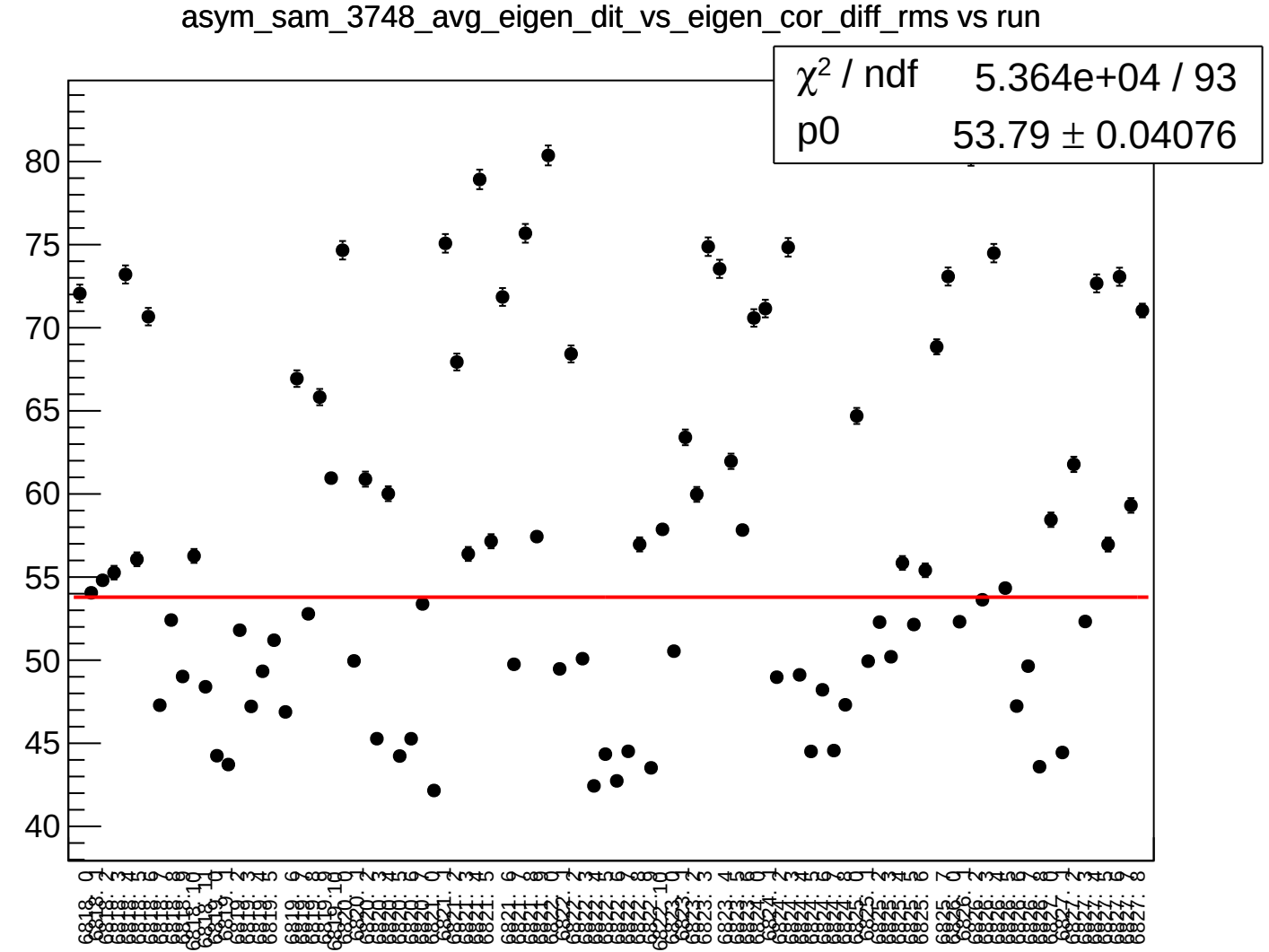

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4892 / 93
p0 0.001581 ± 1.181e−06
0.0018
0.0017
0.0016
0.0015
0.0014

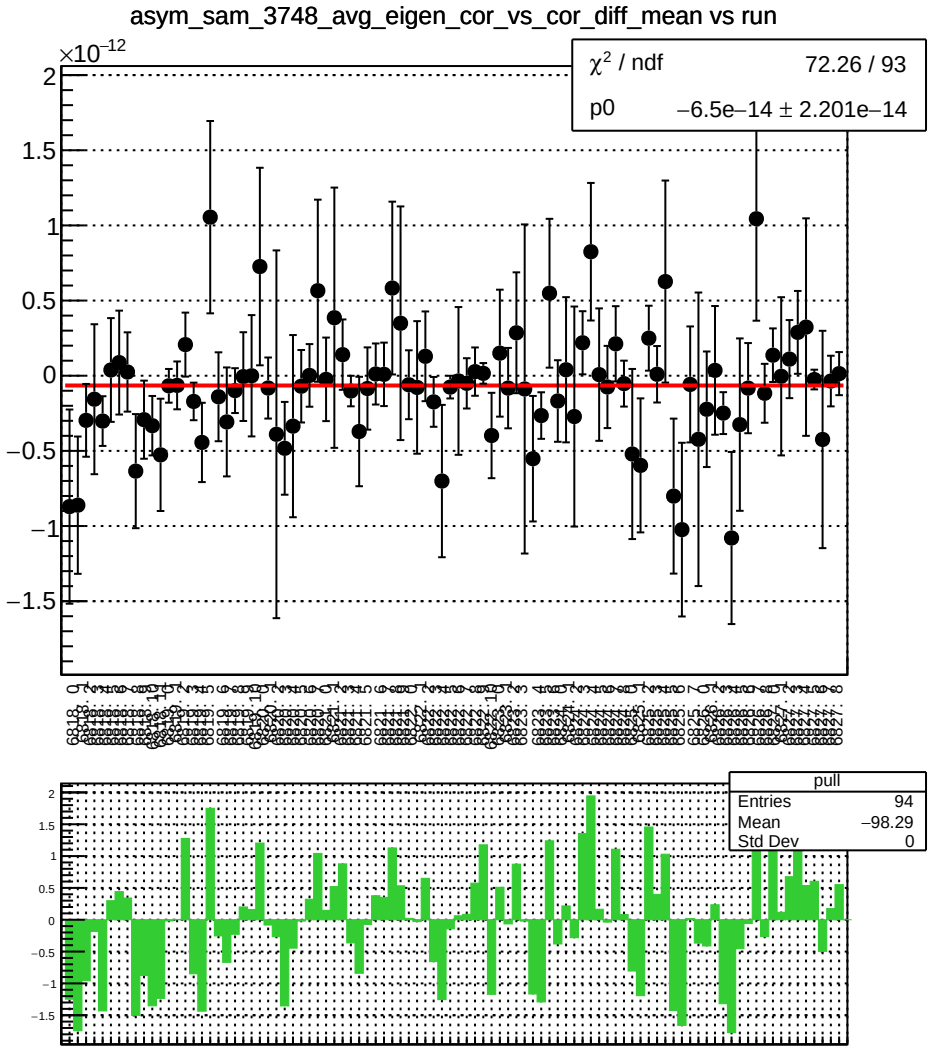

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.87 / 93
p0 0.05325 ± 0.05765
pull
Entries 94
Mean 281.6
Std Dev 0
pull1D
Entries 94
Mean −0.01058
Std Dev 0.9332

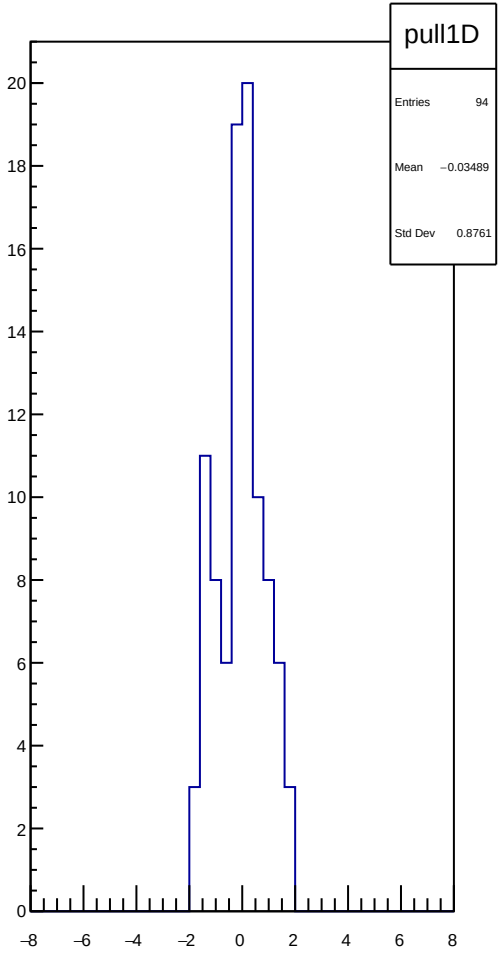

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.364e+04 / 93
p0 53.79 ± 0.04076
80
75
70
65
60
55
50
45
40

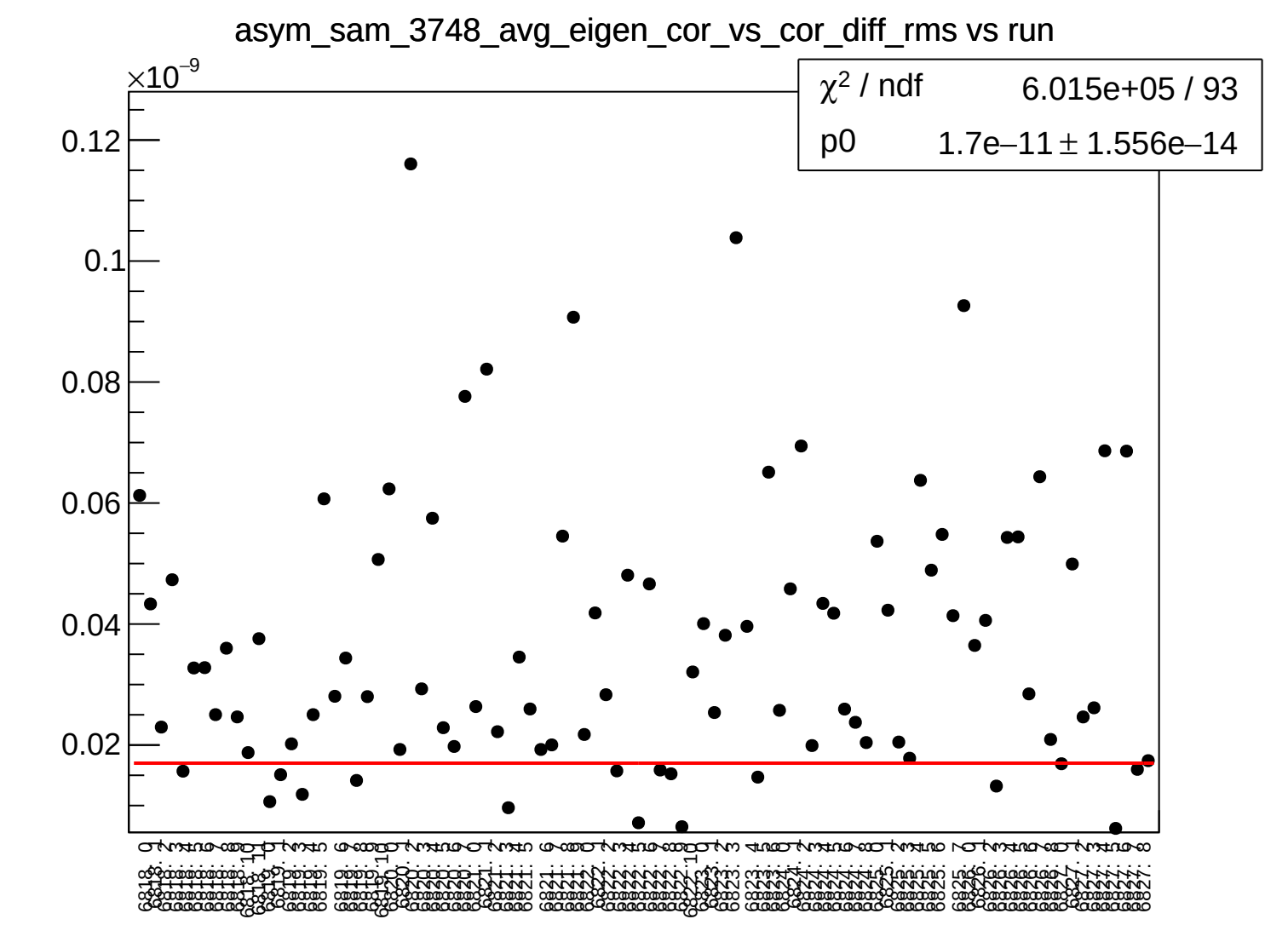

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.87 / 93
p0 0.05325 ± 0.05765
pull
Entries 94
Mean 281.6
Std Dev 0

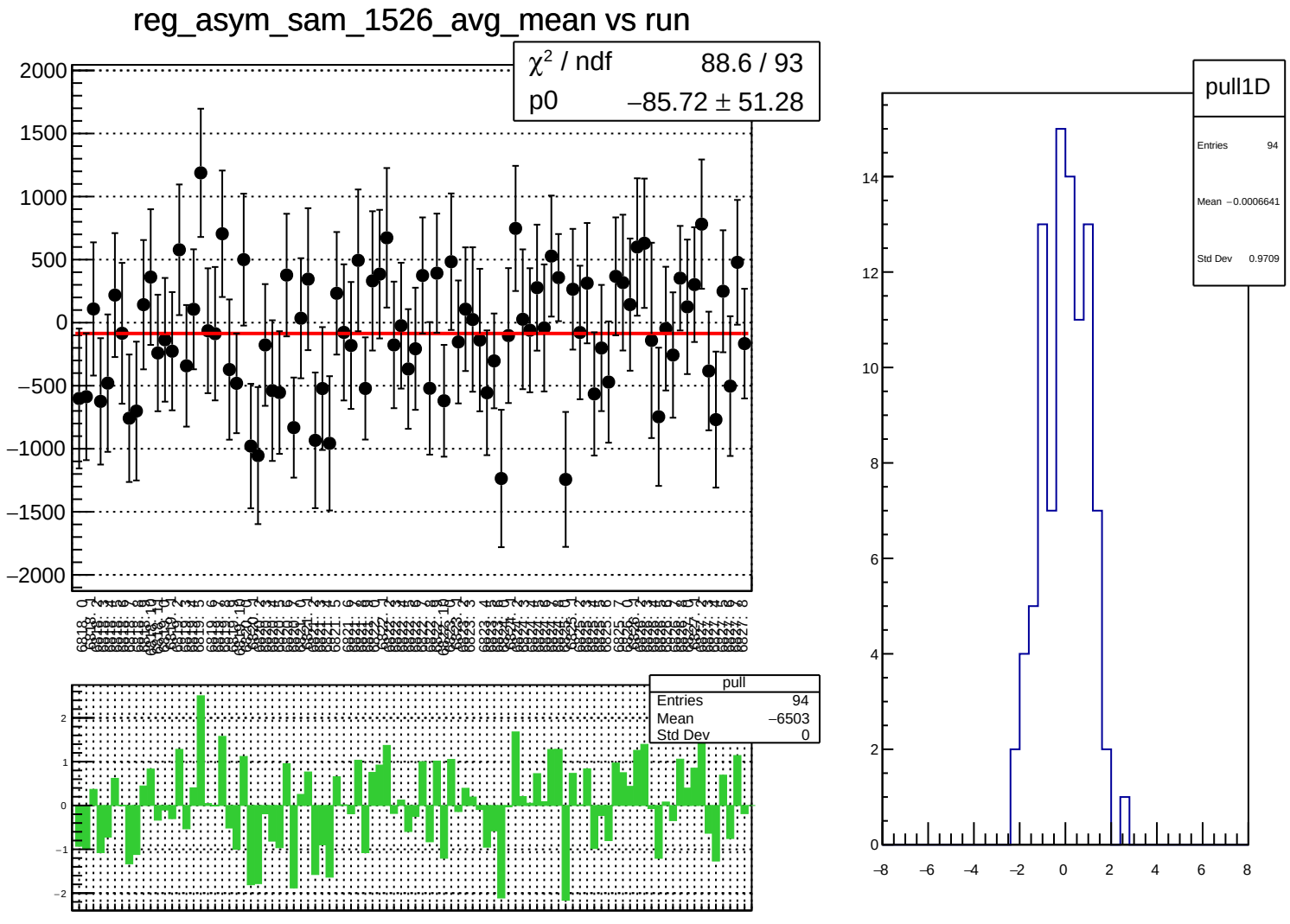

pull1D
Entries 94
Mean −0.01058
Std Dev 0.9332

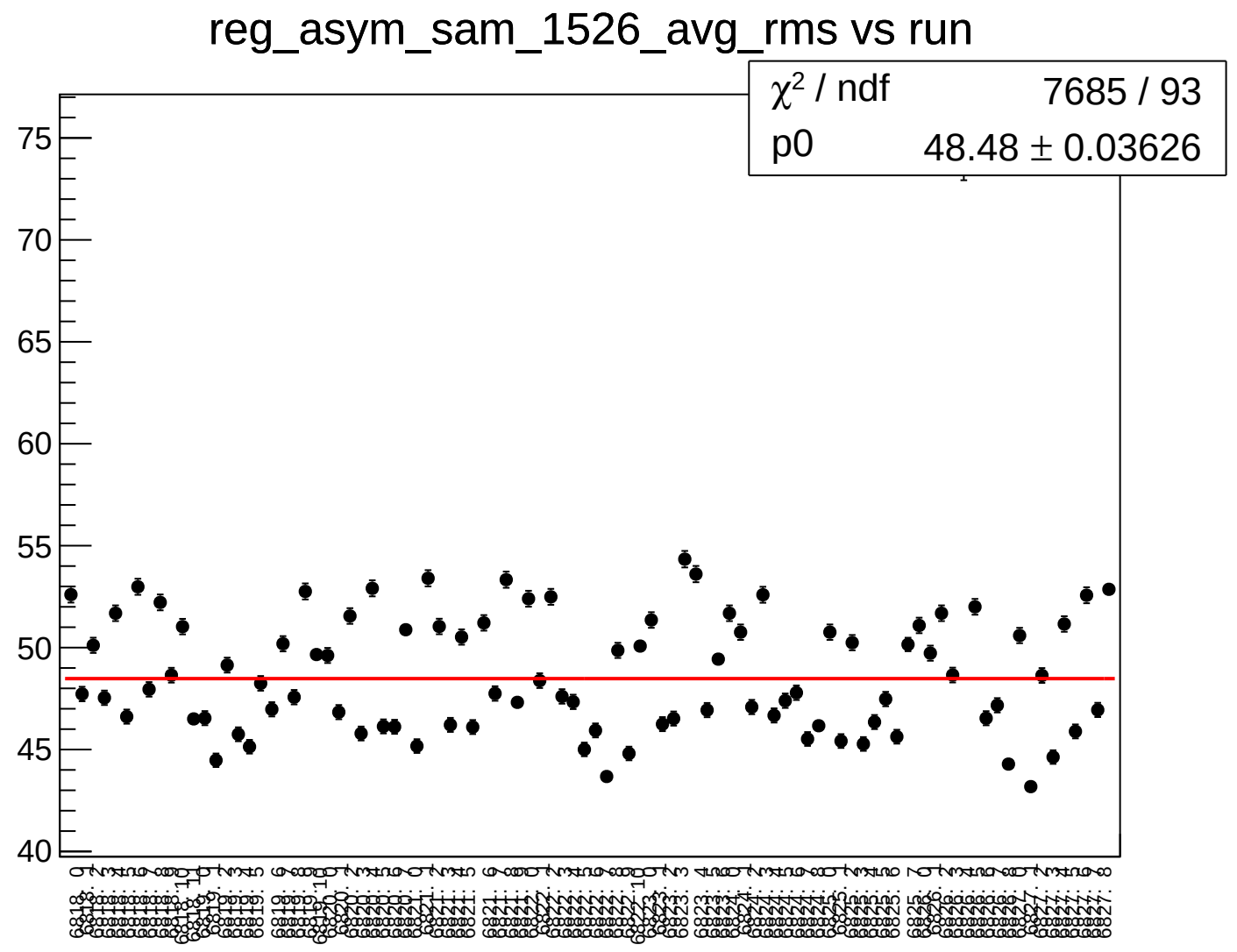

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.364e+04 / 93
p0 53.79 ± 0.04076
80
75
70
65
60
55
50
45
40

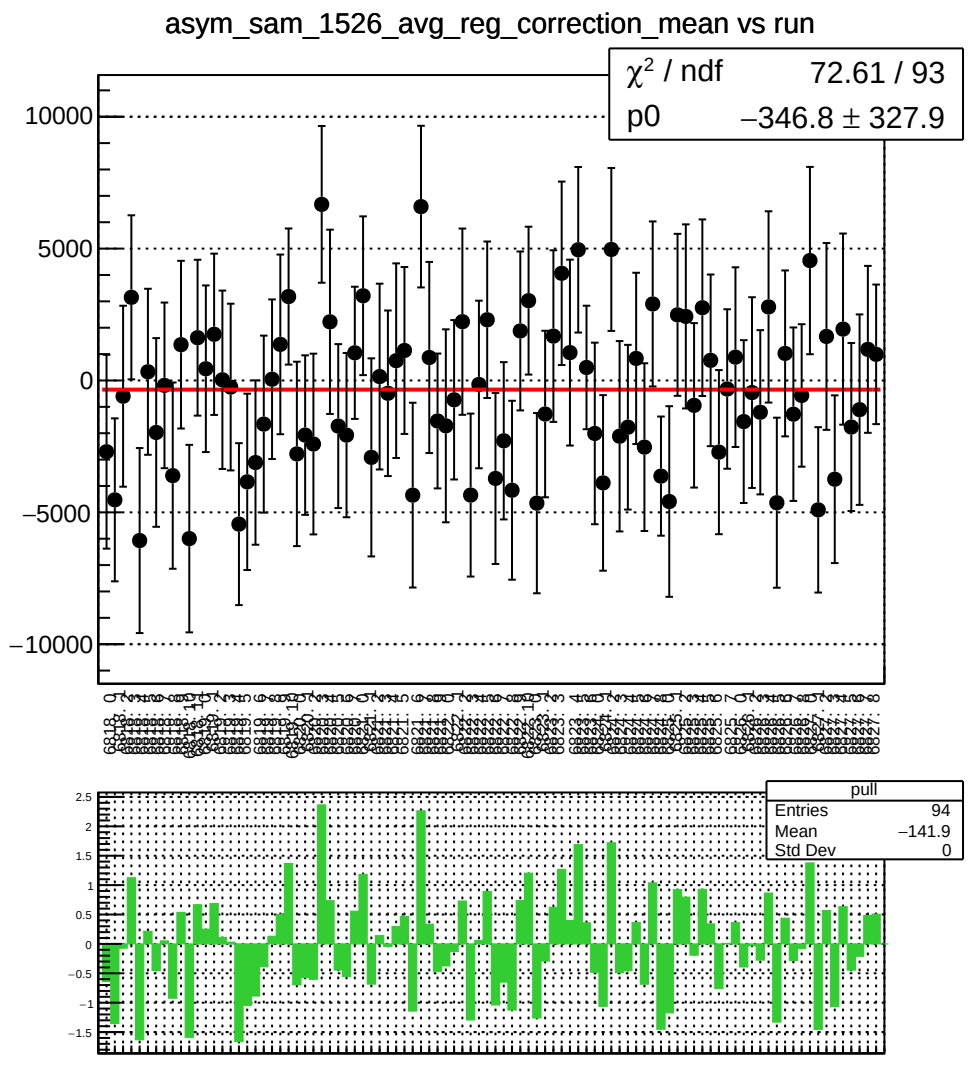

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 72.26 / 93
p0 −6.5e−14 ± 2.201e−14
pull
Entries 94
Mean −98.29
Std Dev 0

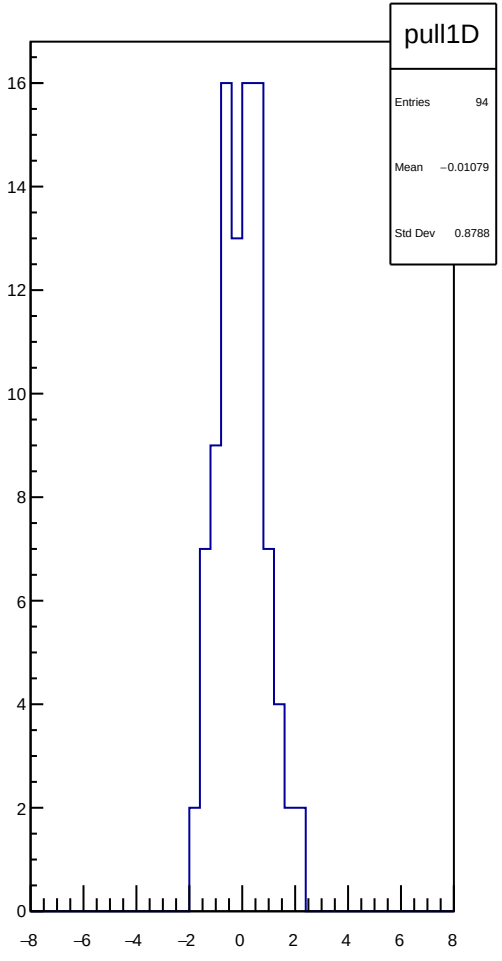

pull1D
Entries 94
Mean −0.03489
Std Dev 0.8761

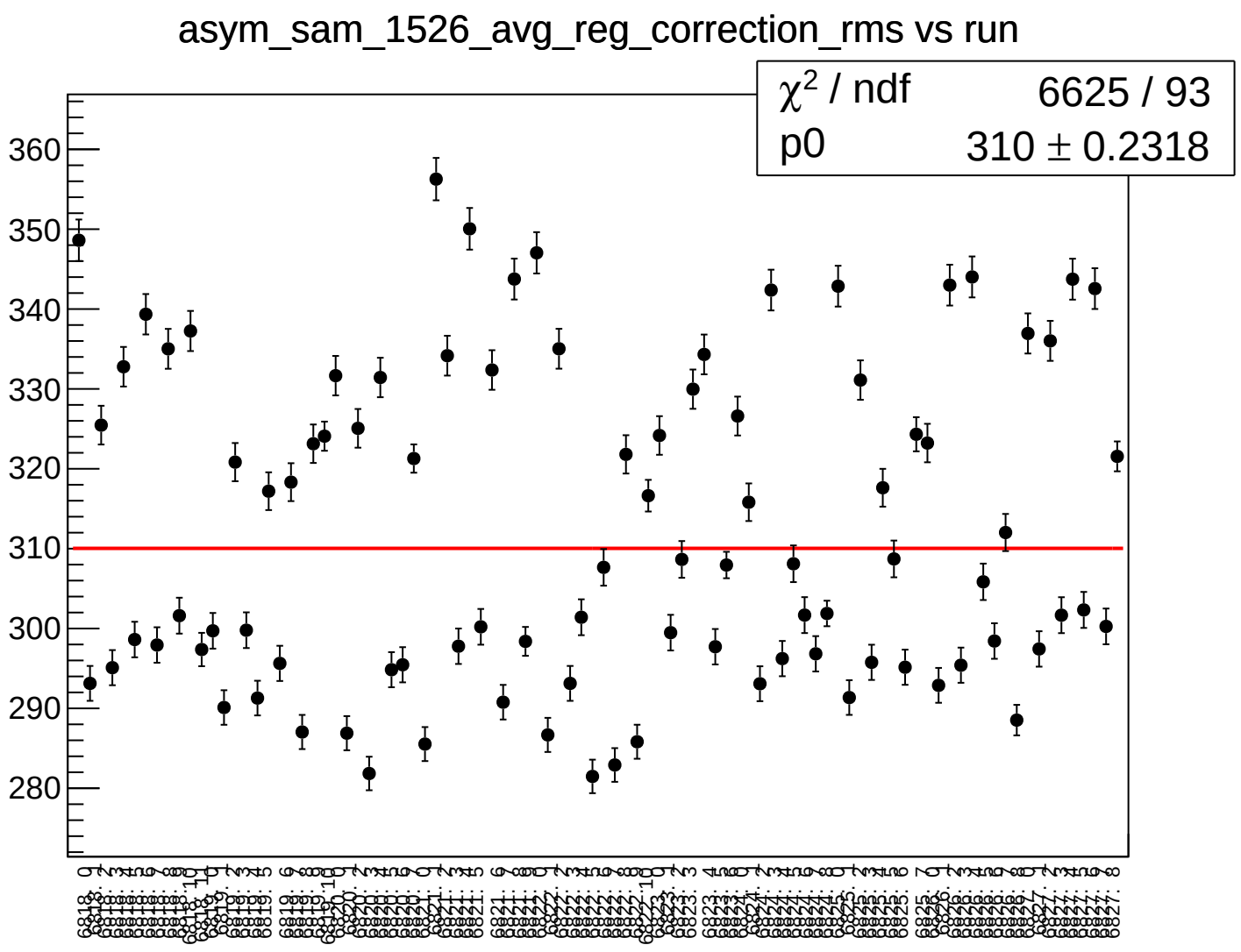

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.015e+05 / 93
p0 1.7e−11 ± 1.556e−14
0.12
0.1
0.08
0.06
0.04
0.02

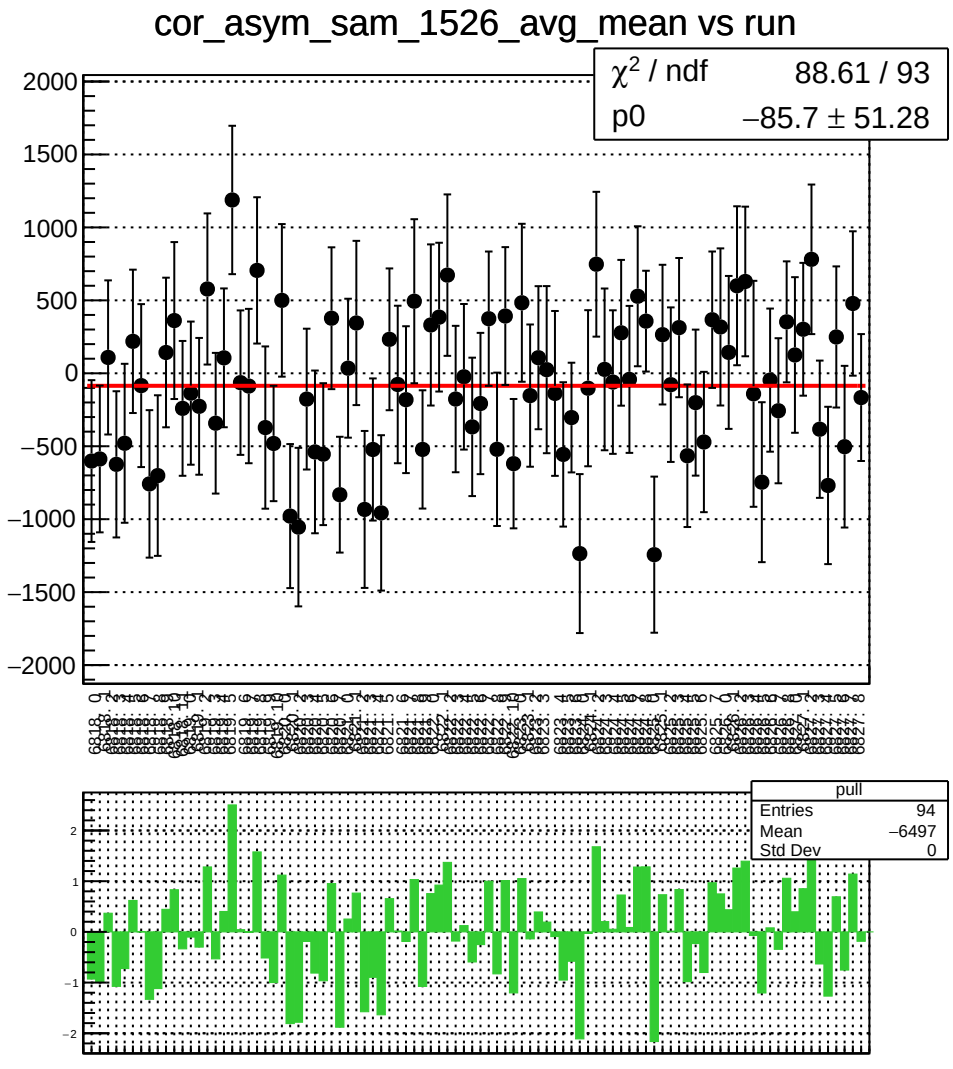

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 88.6 / 93
p0 −85.72 ± 51.28
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean −6503
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.0006641
Std Dev 0.9709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

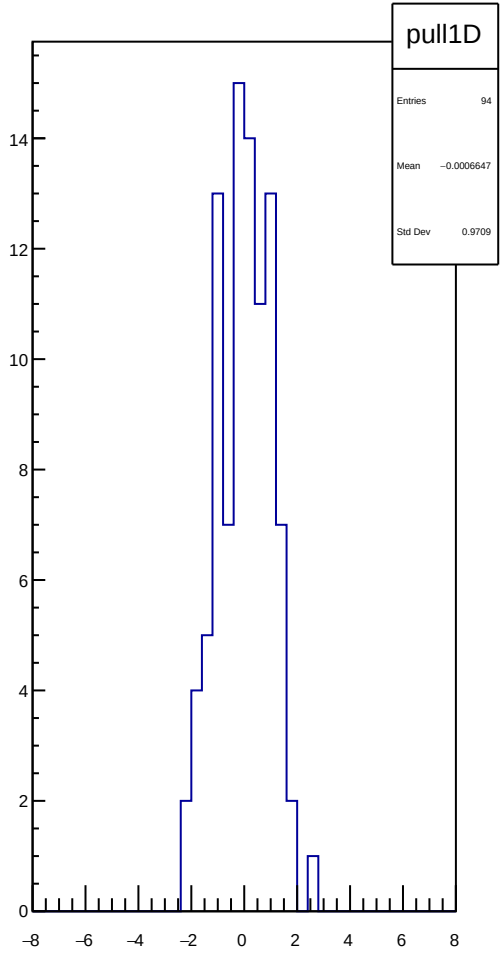

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 7685 / 93
p0 48.48 ± 0.03626
75
70
65
60
55
50
45
40

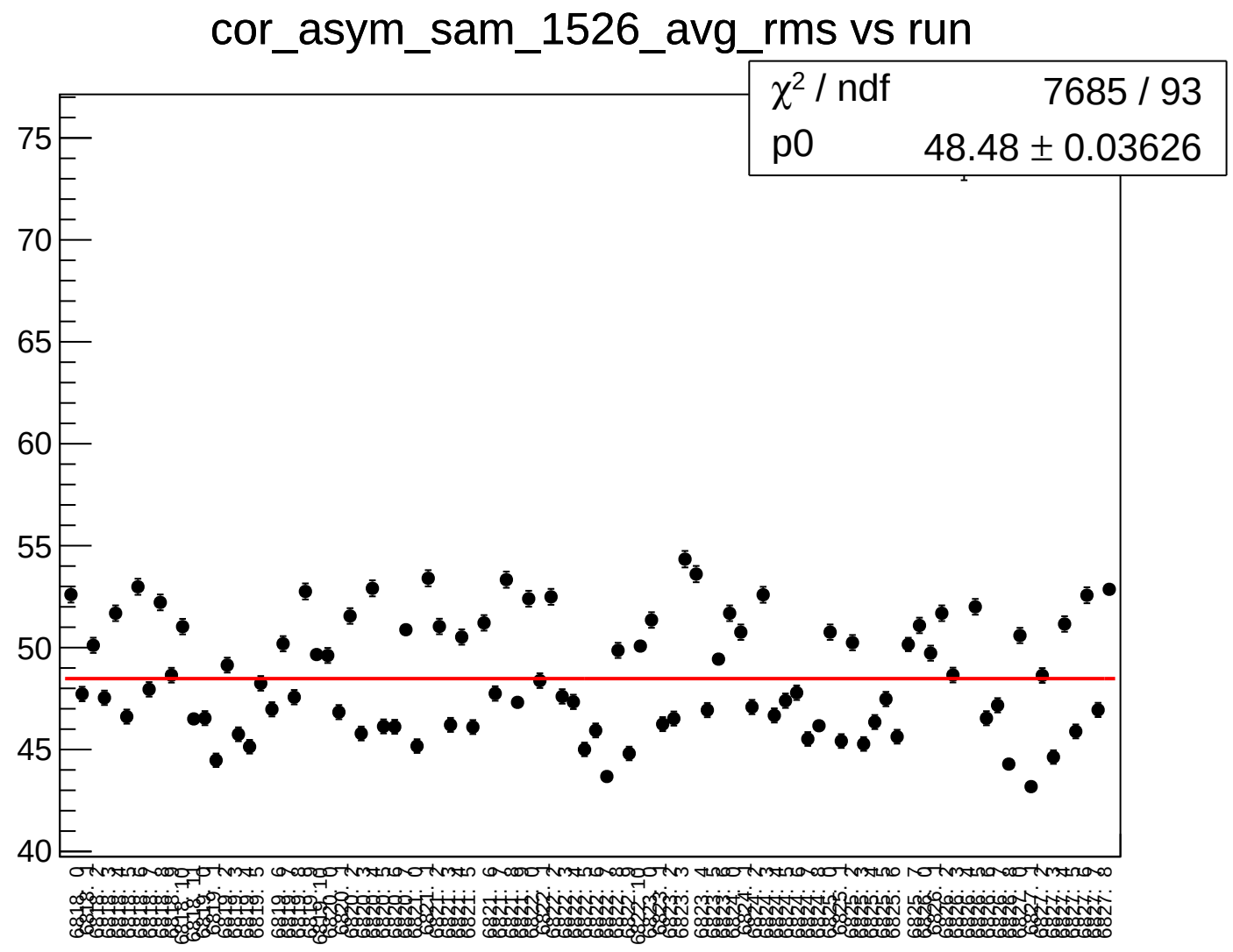

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 72.61 / 93
p0 −346.8 ± 327.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −141.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

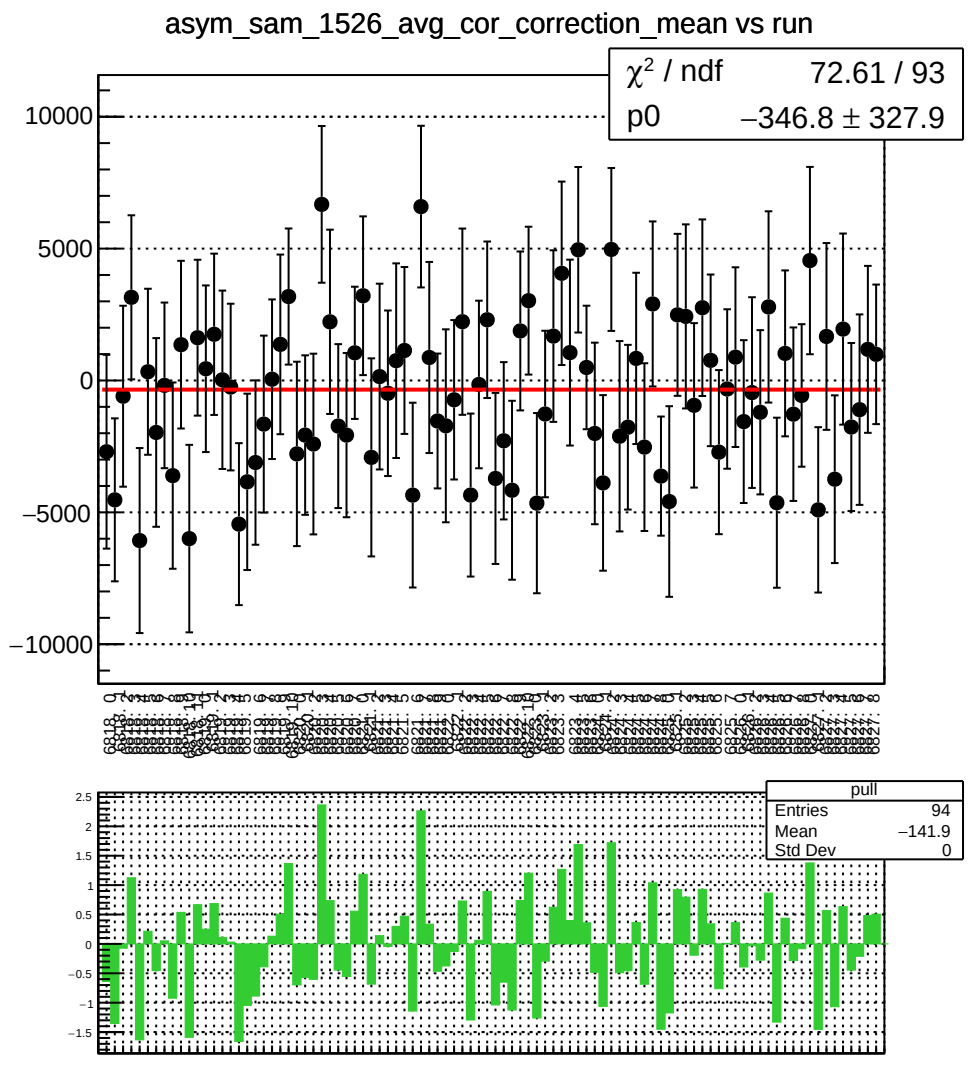

pull1D
Entries 94
Mean −0.01079
Std Dev 0.8788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

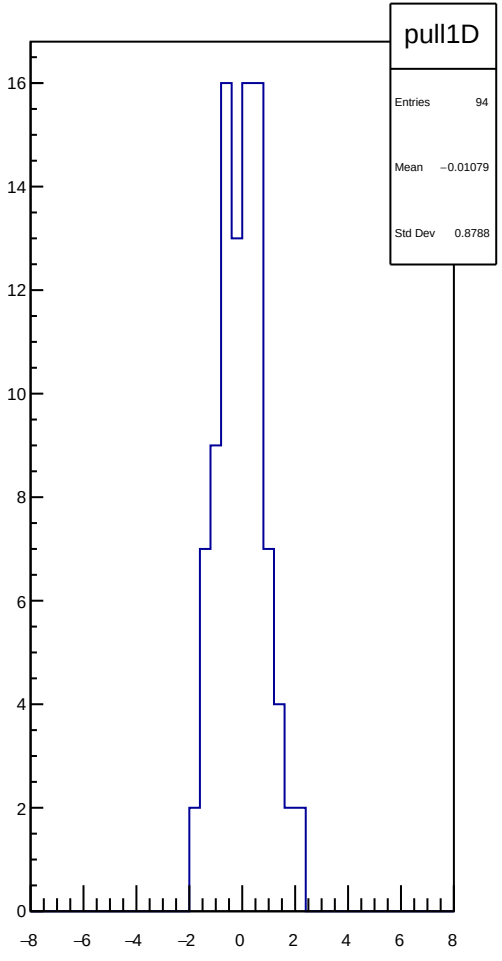

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 6625 / 93
p0 310 ± 0.2318
360
350
340
330
320
310
300
290
280

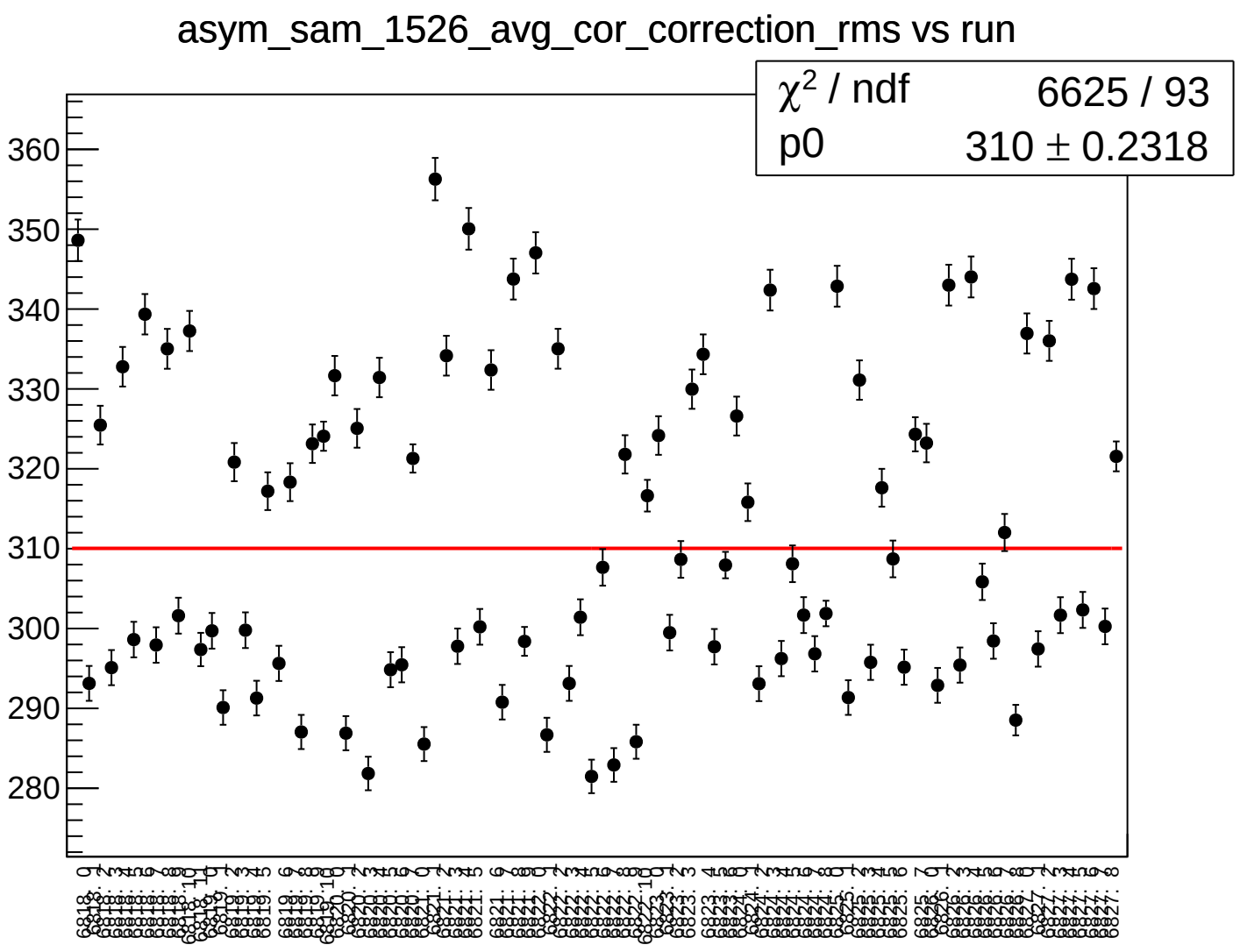

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 88.61 / 93
p0 −85.7 ± 51.28
pull
Entries 94
Mean −6497
Std Dev 0

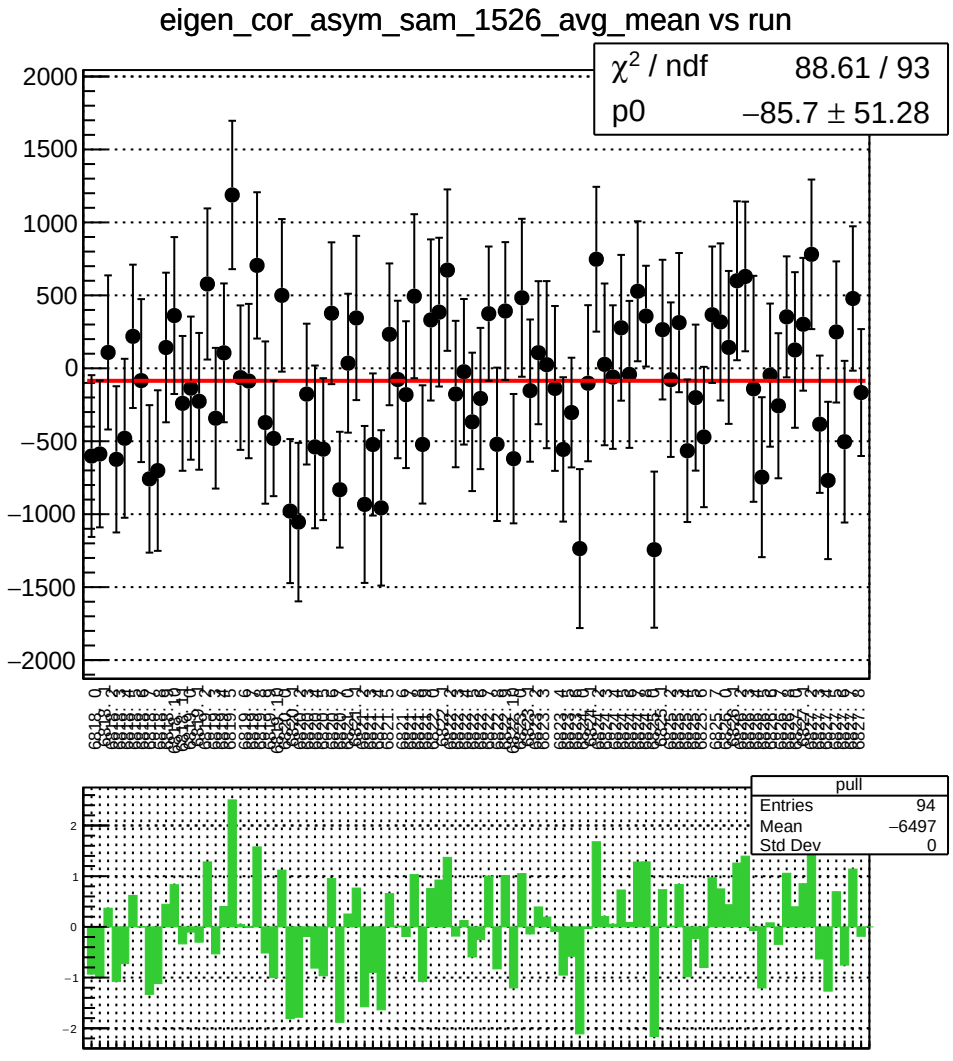

pull1D
Entries 94
Mean −0.0006647
Std Dev 0.9709

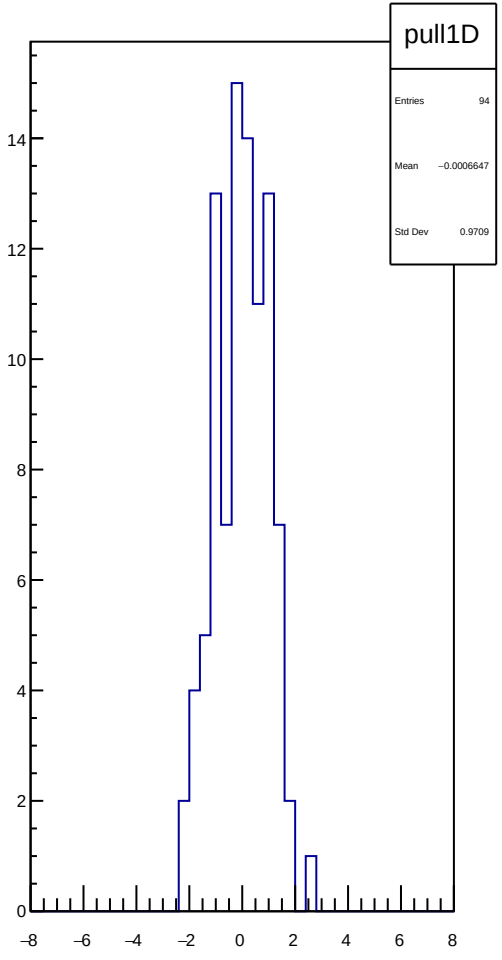

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 7685 / 93
p0 48.48 ± 0.03626
75
70
65
60
55
50
45
40

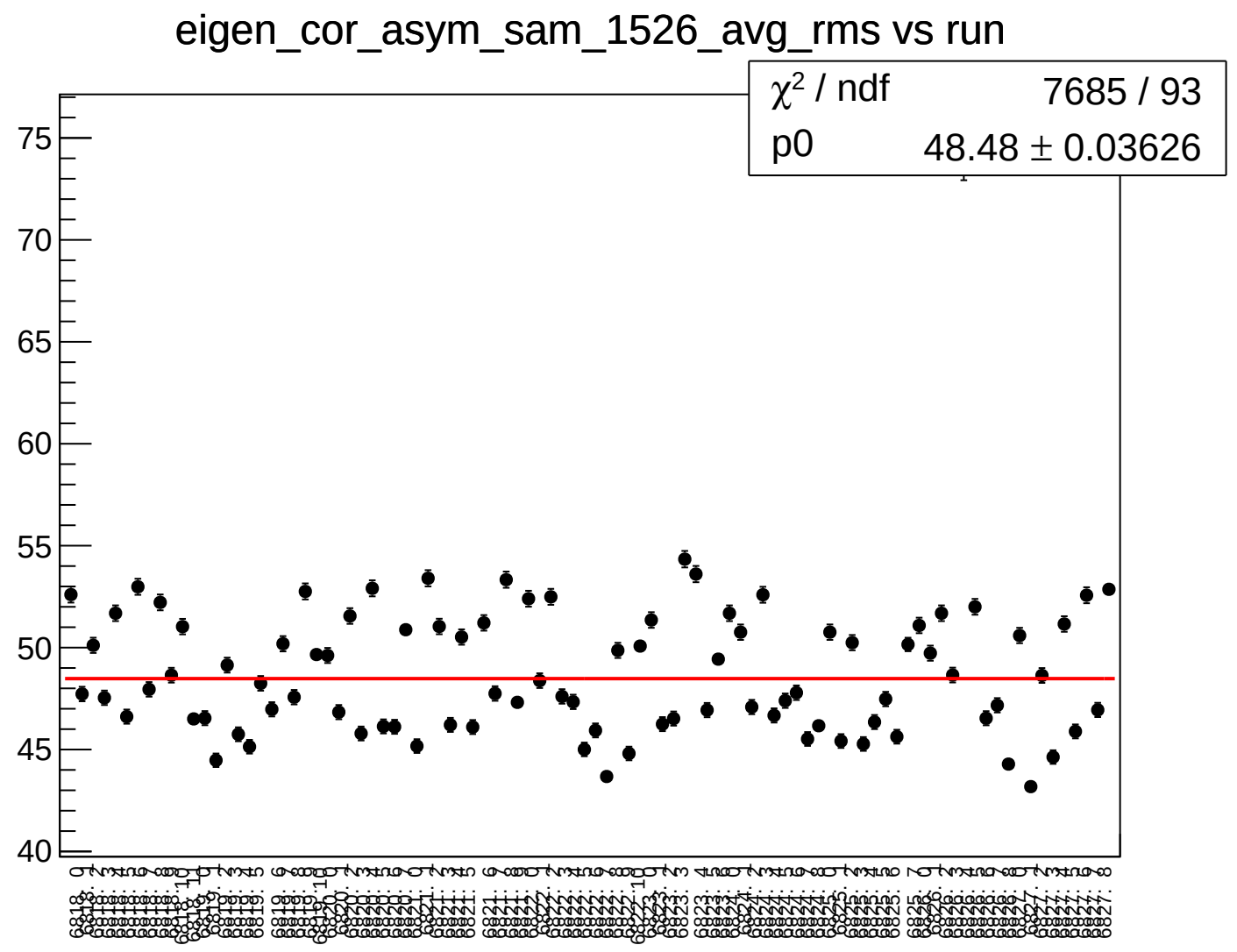

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 72.61 / 93
p0 −346.8 ± 327.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −141.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

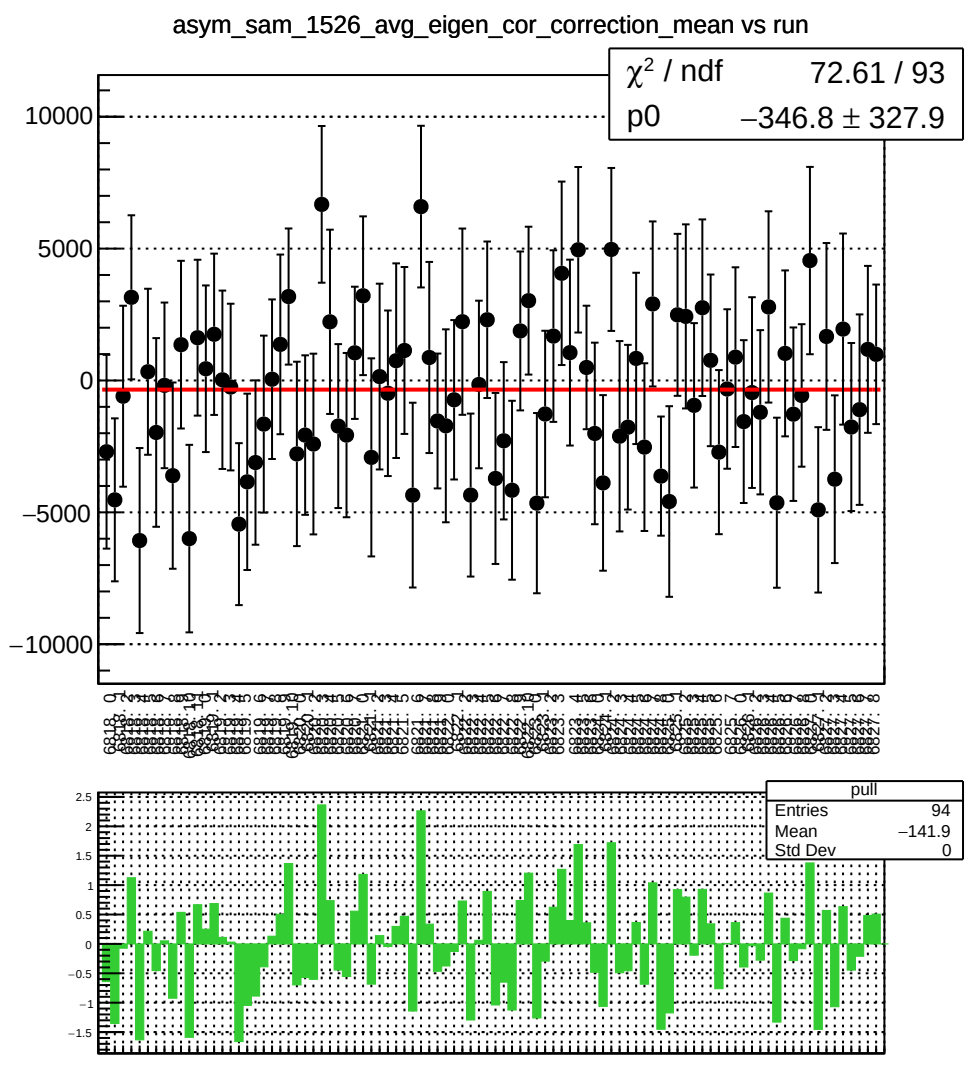

pull1D
Entries 94
Mean −0.01079
Std Dev 0.8788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

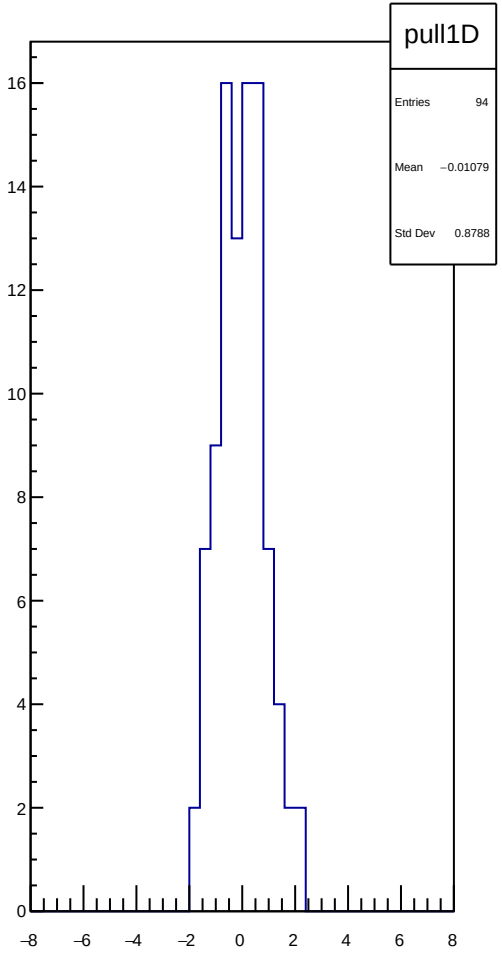

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 6625 / 93
p0 310 ± 0.2318
360
350
340
330
320
310
300
290
280

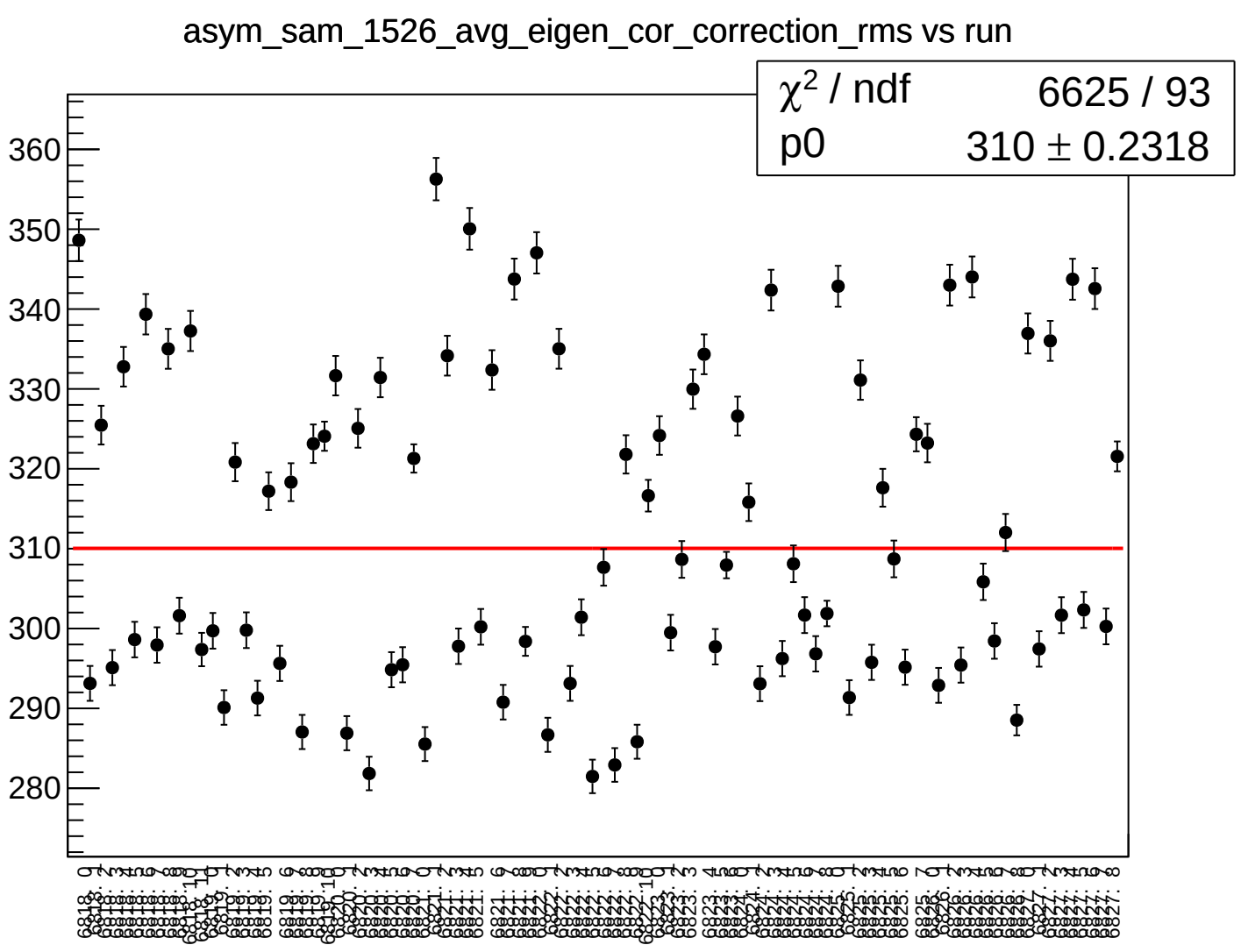

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 88.61 / 93
p0 −85.7 ± 51.28
pull
Entries 94
Mean −6497
Std Dev 0

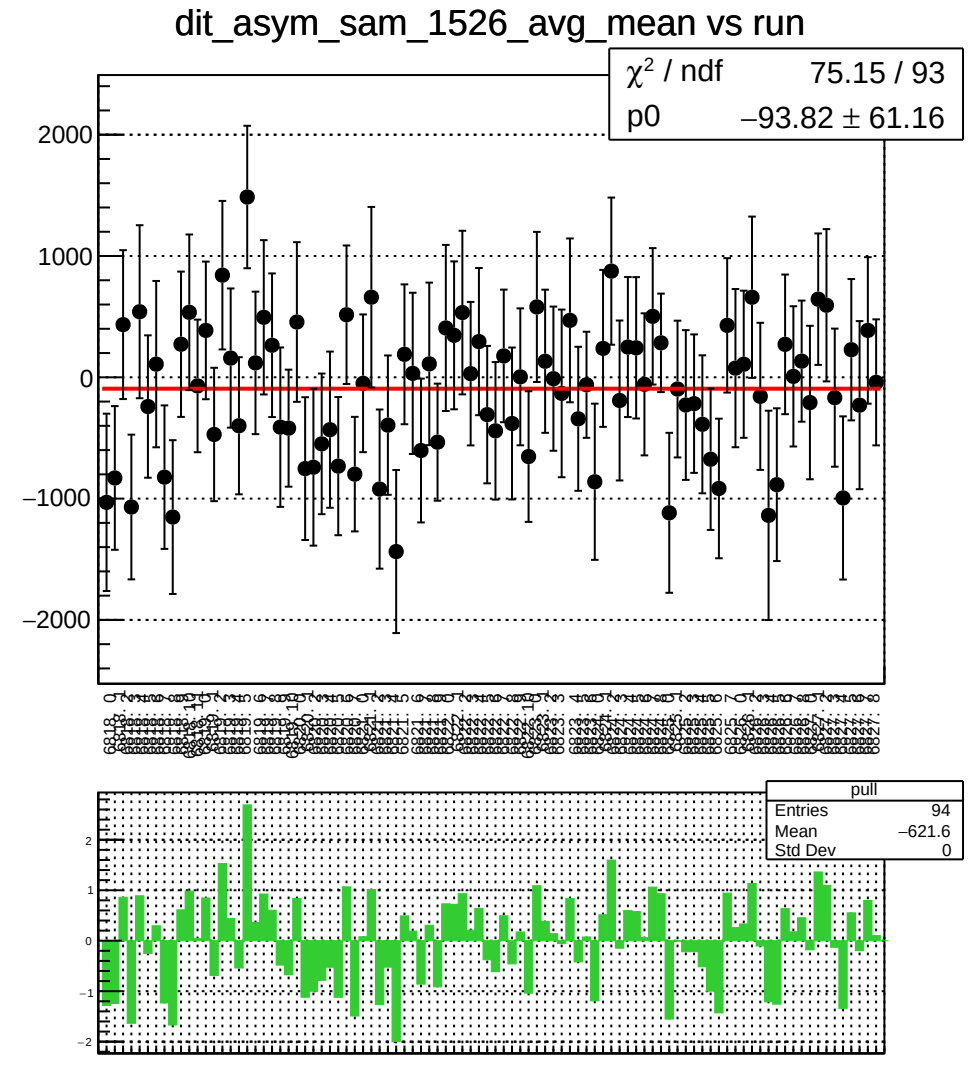

pull1D
Entries 94
Mean −0.0006647
Std Dev 0.9709

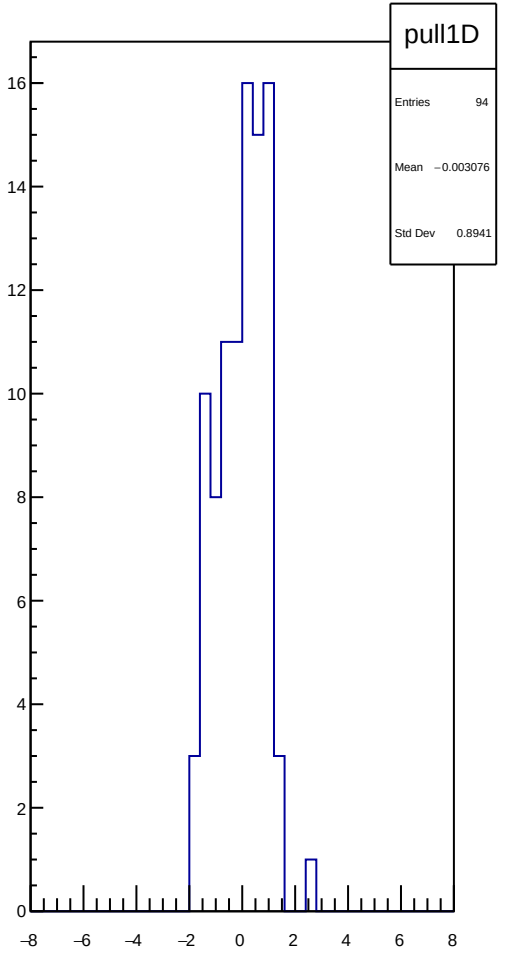

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 7685 / 93
p0 48.48 ± 0.03626
75
70
65
60
55
50
45
40

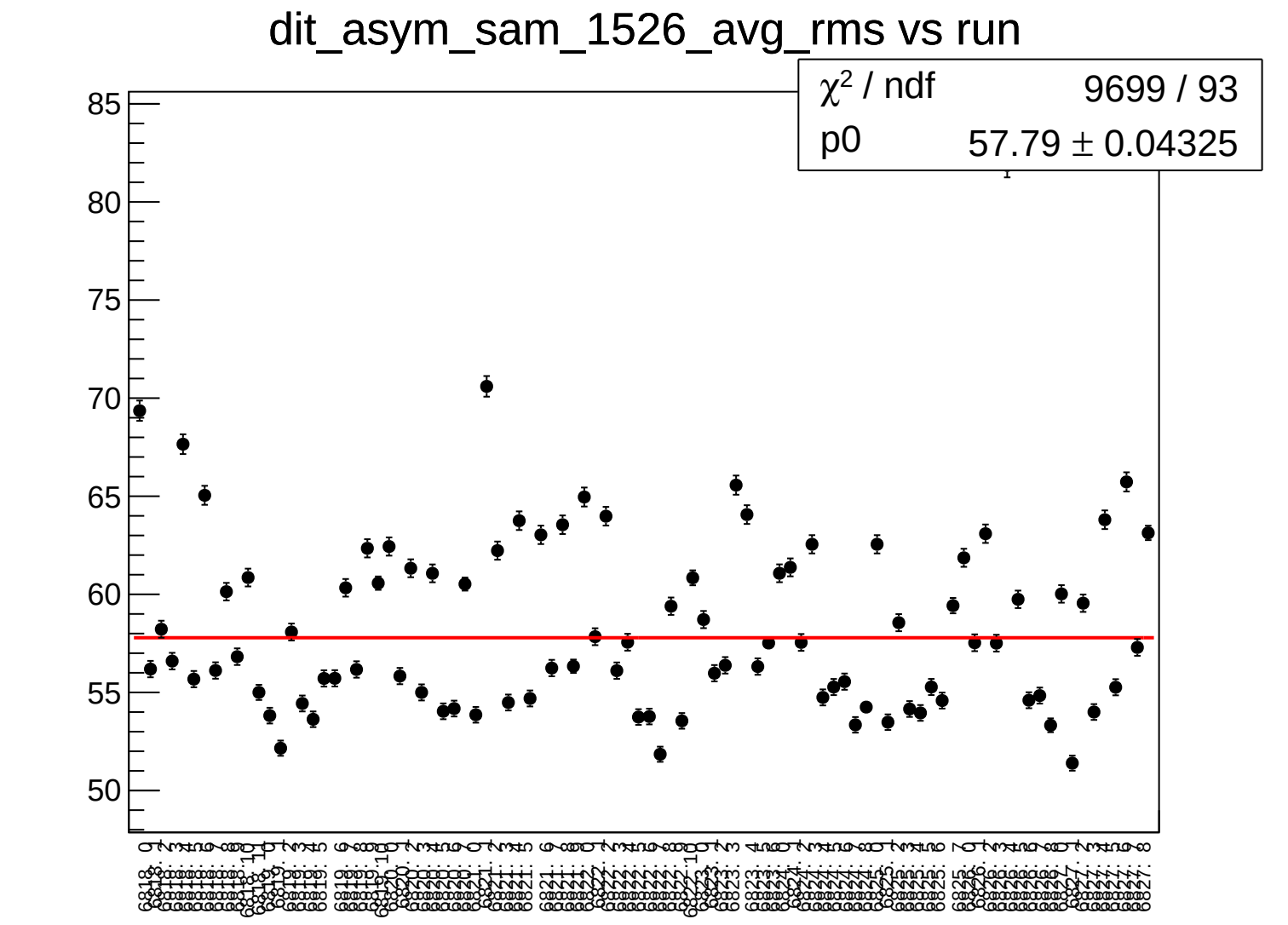

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.61 / 93
p0 −346.8 ± 327.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −141.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

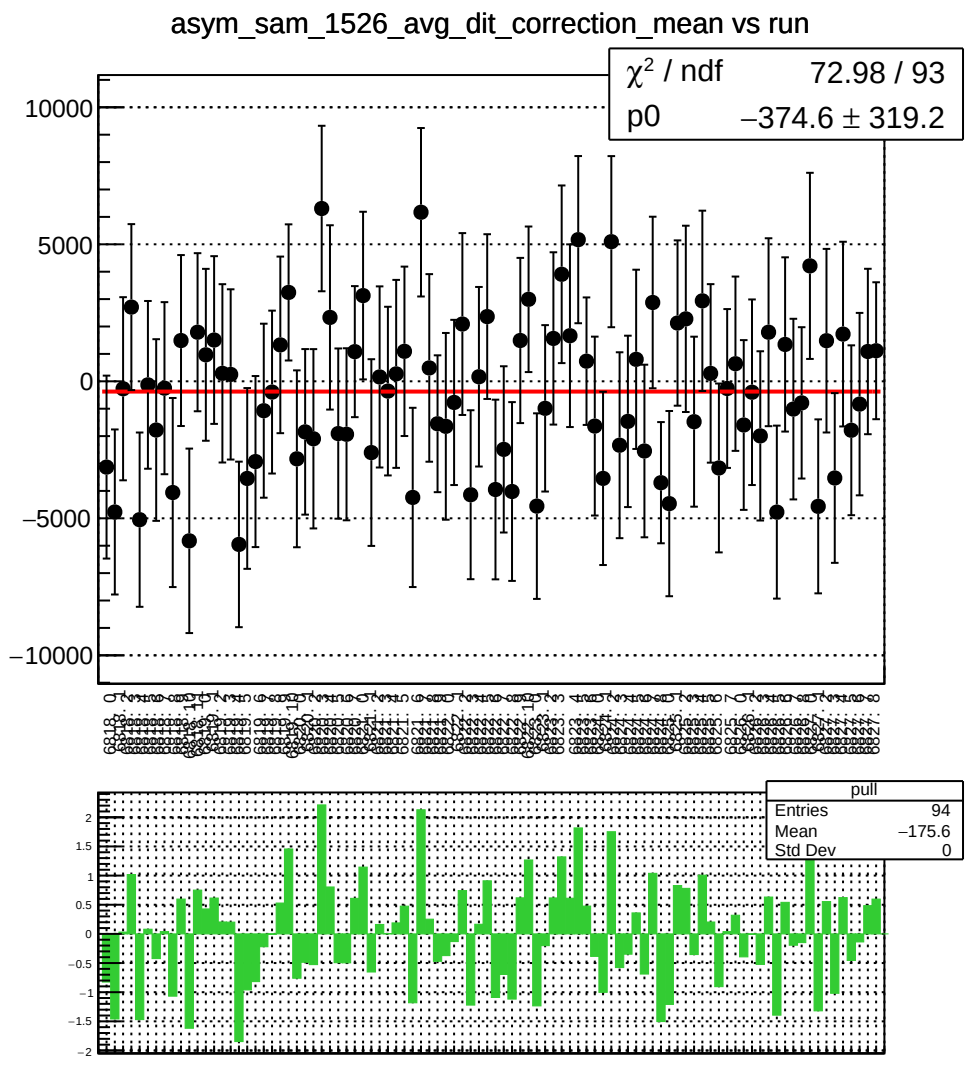

pull1D
Entries 94
Mean −0.01079
Std Dev 0.8788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

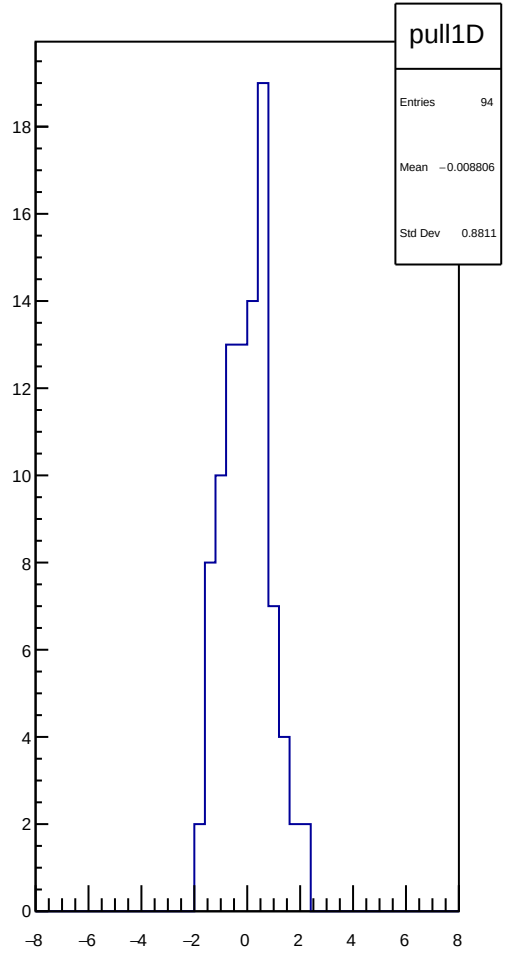

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 6625 / 93
p0 310 ± 0.2318
360
350
340
330
320
310
300
290
280

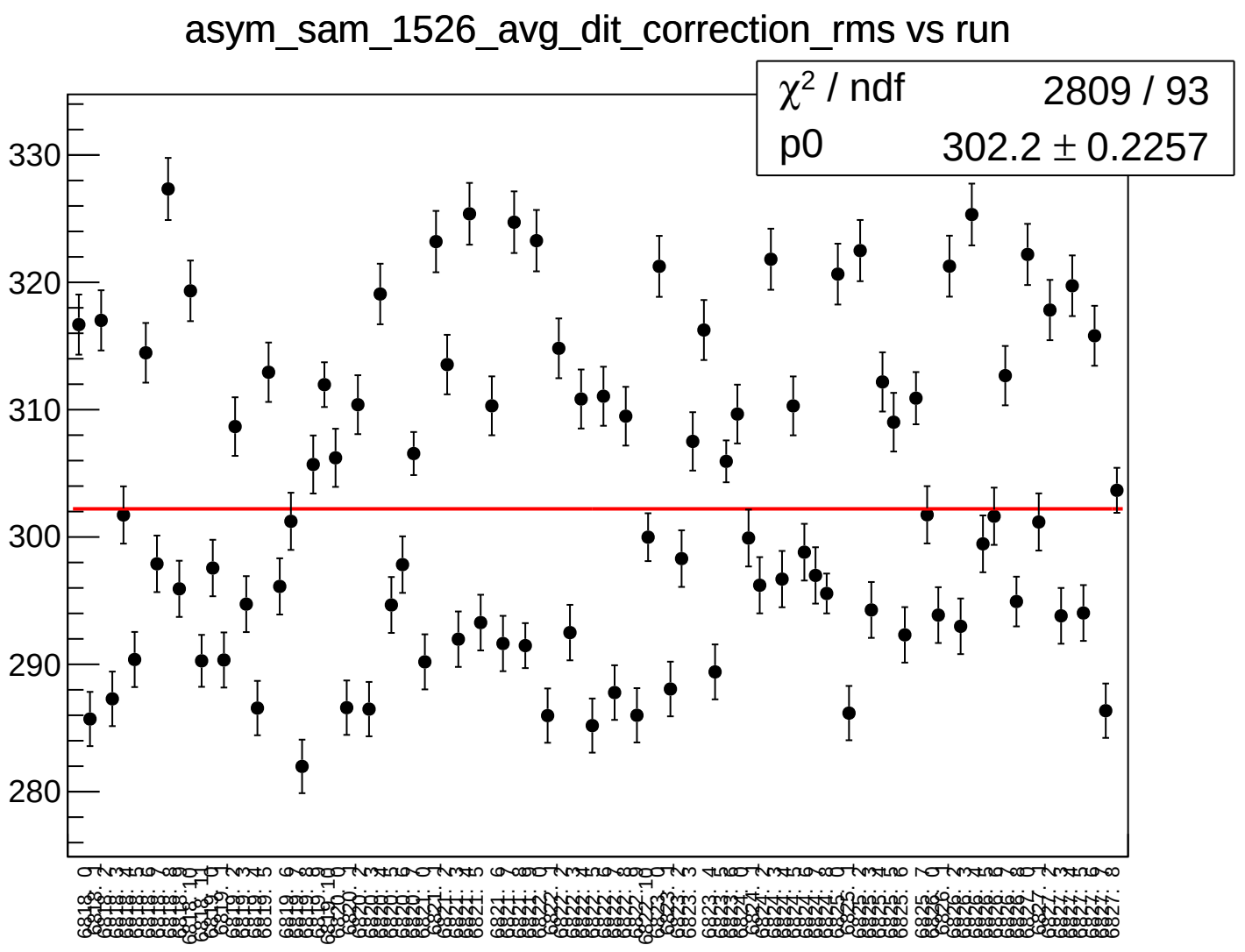

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 75.15 / 93
p0 −93.82 ± 61.16
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −621.6
Std Dev 0
2
1
0
−1
−2

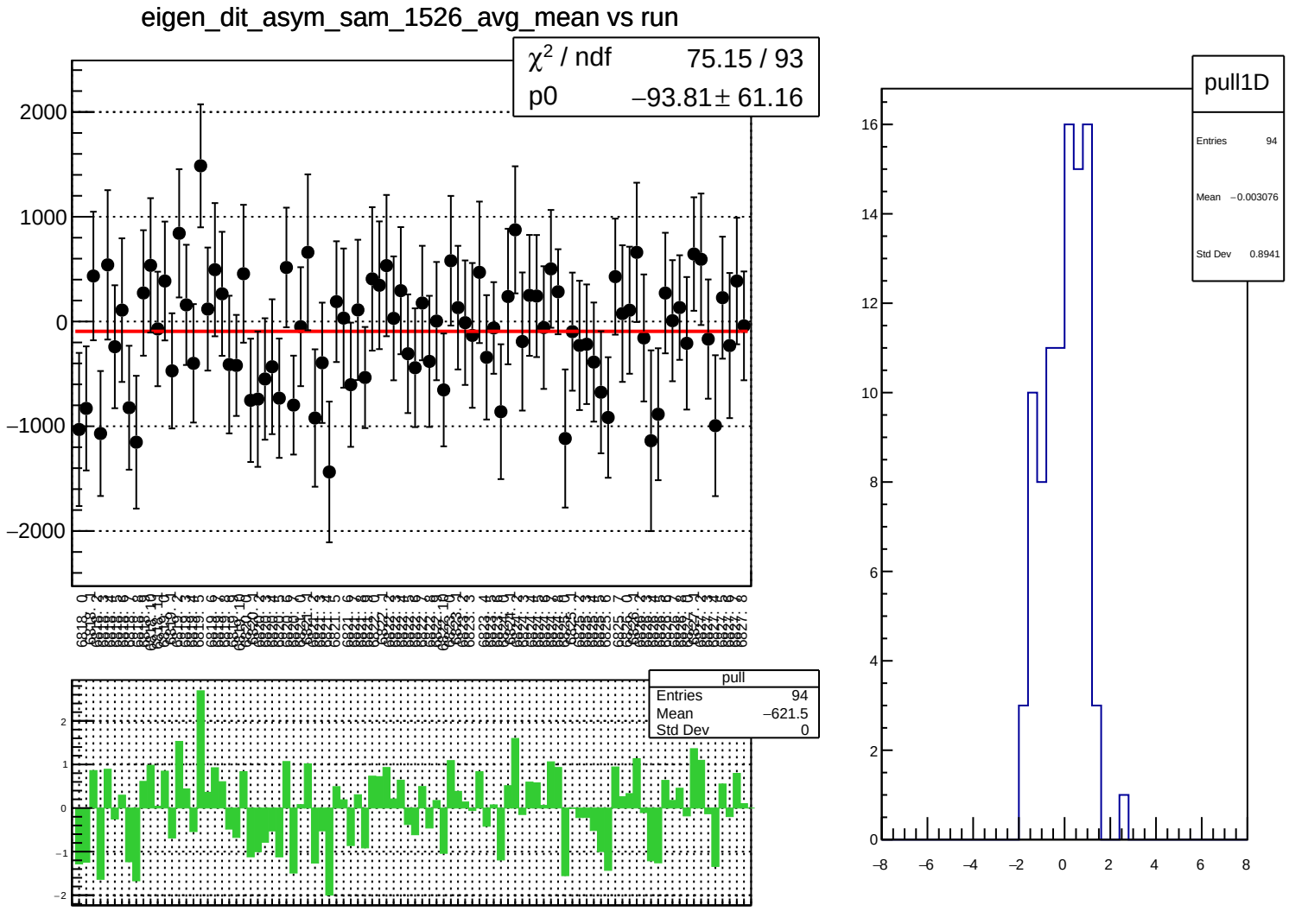

pull1D
Entries 94
Mean −0.003076
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

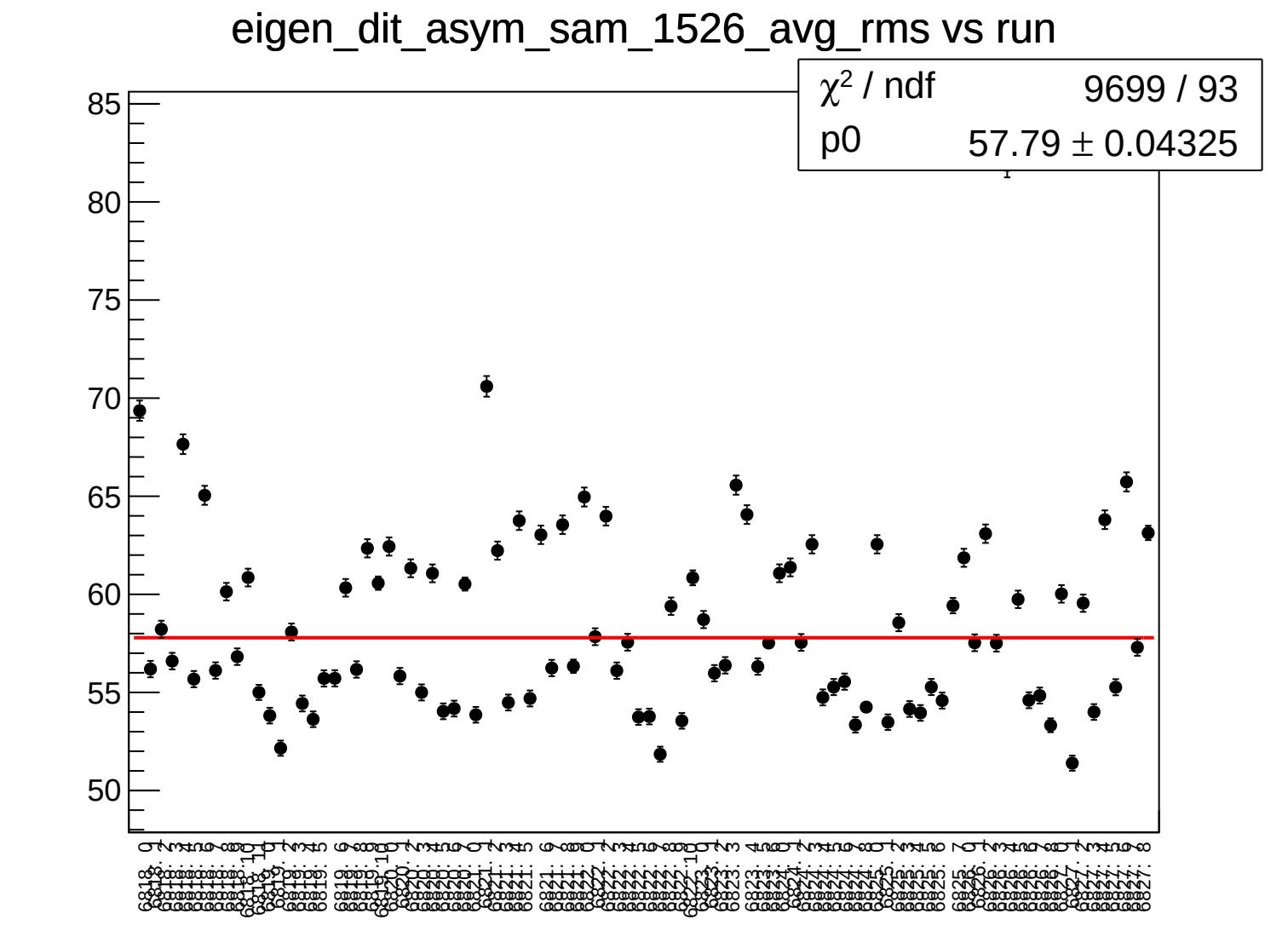

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9699 / 93
p0 57.79 ± 0.04325
85
80
75
70
65
60
55
50

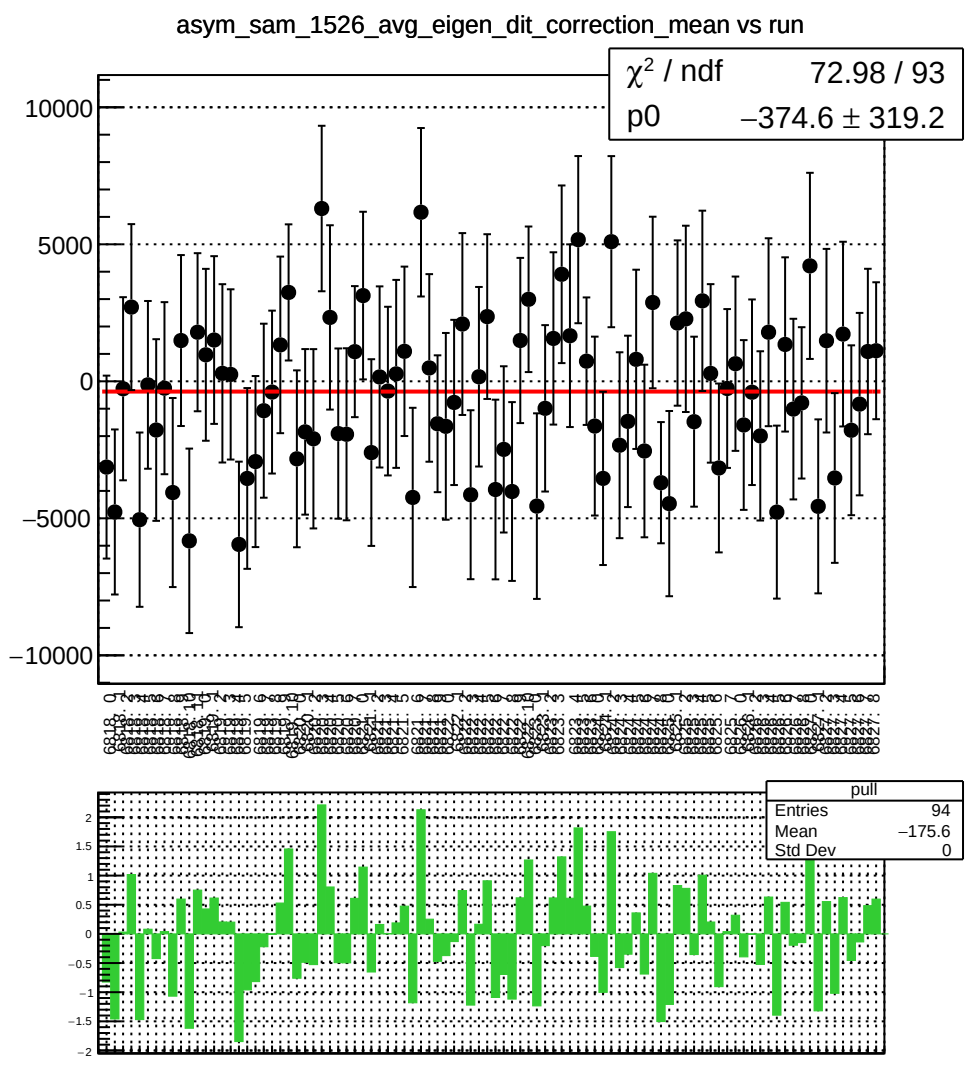

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 72.98 / 93
p0 −374.6 ± 319.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −175.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

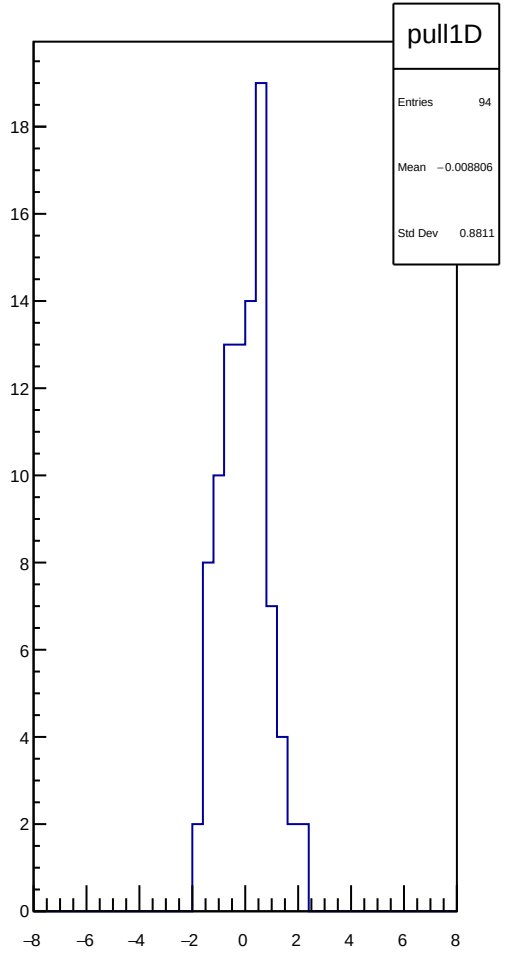

pull1D
Entries 94
Mean −0.008806
Std Dev 0.8811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

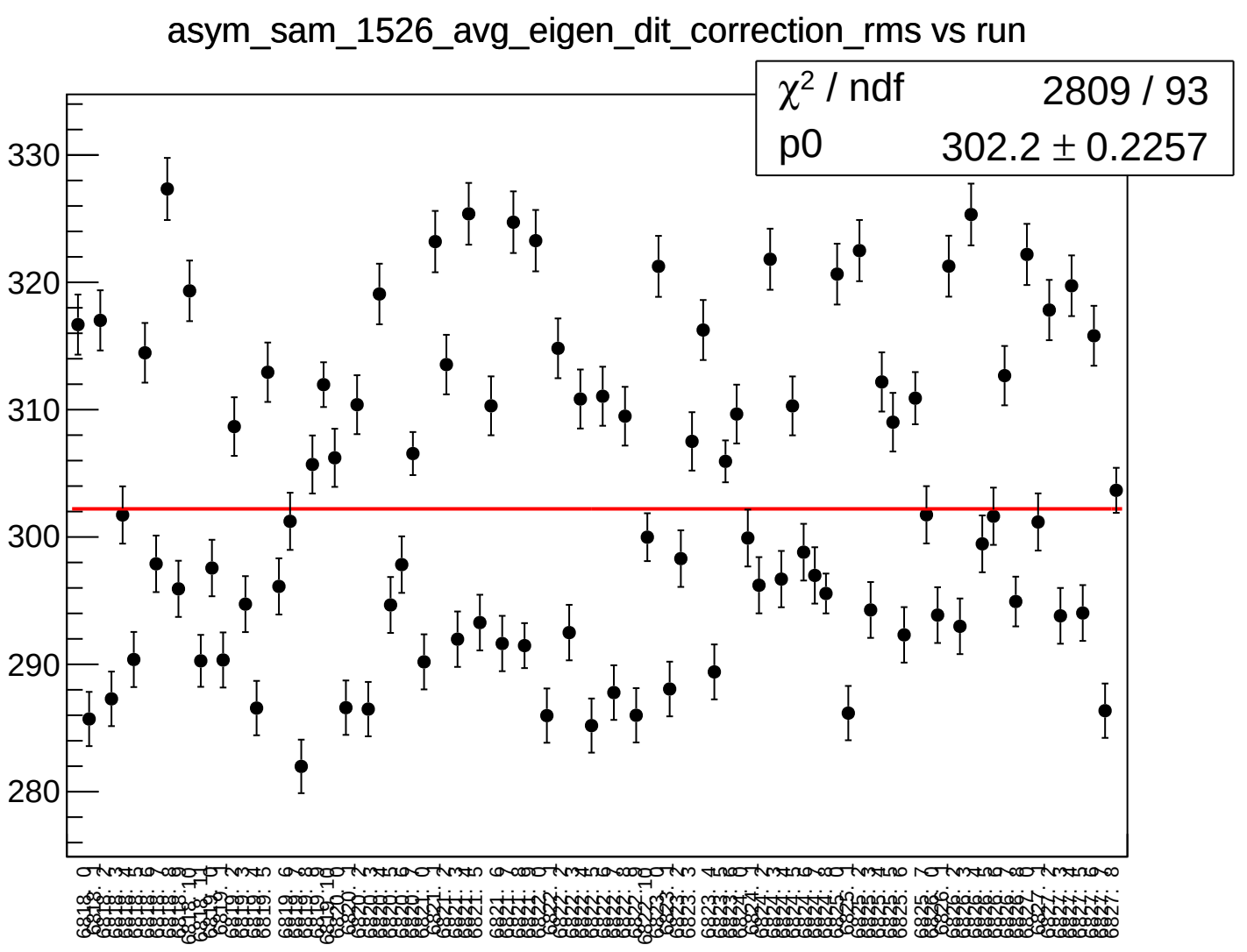

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2809 / 93
p0 302.2 ± 0.2257
330
320
310
300
290
280

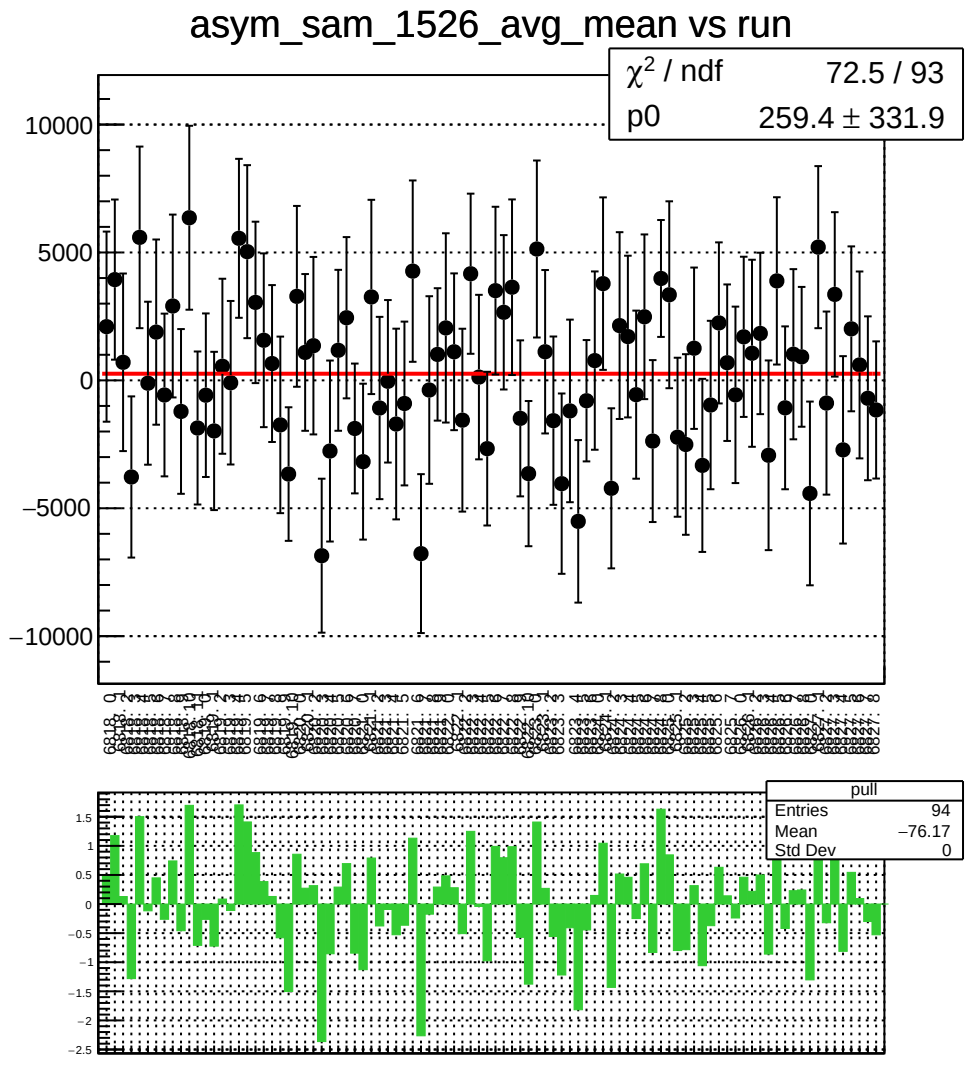

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 75.15 / 93
p0 −93.81 ± 61.16
2000
1000
0
−1000
−2000
pull
Entries 94
Mean −621.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.003076
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

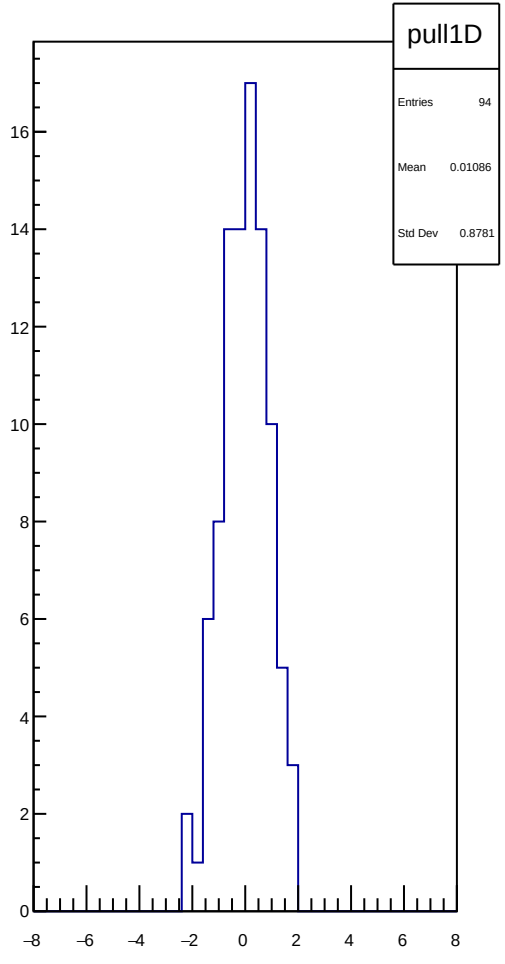

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 9699 / 93
p0 57.79 ± 0.04325
85
80
75
70
65
60
55
50

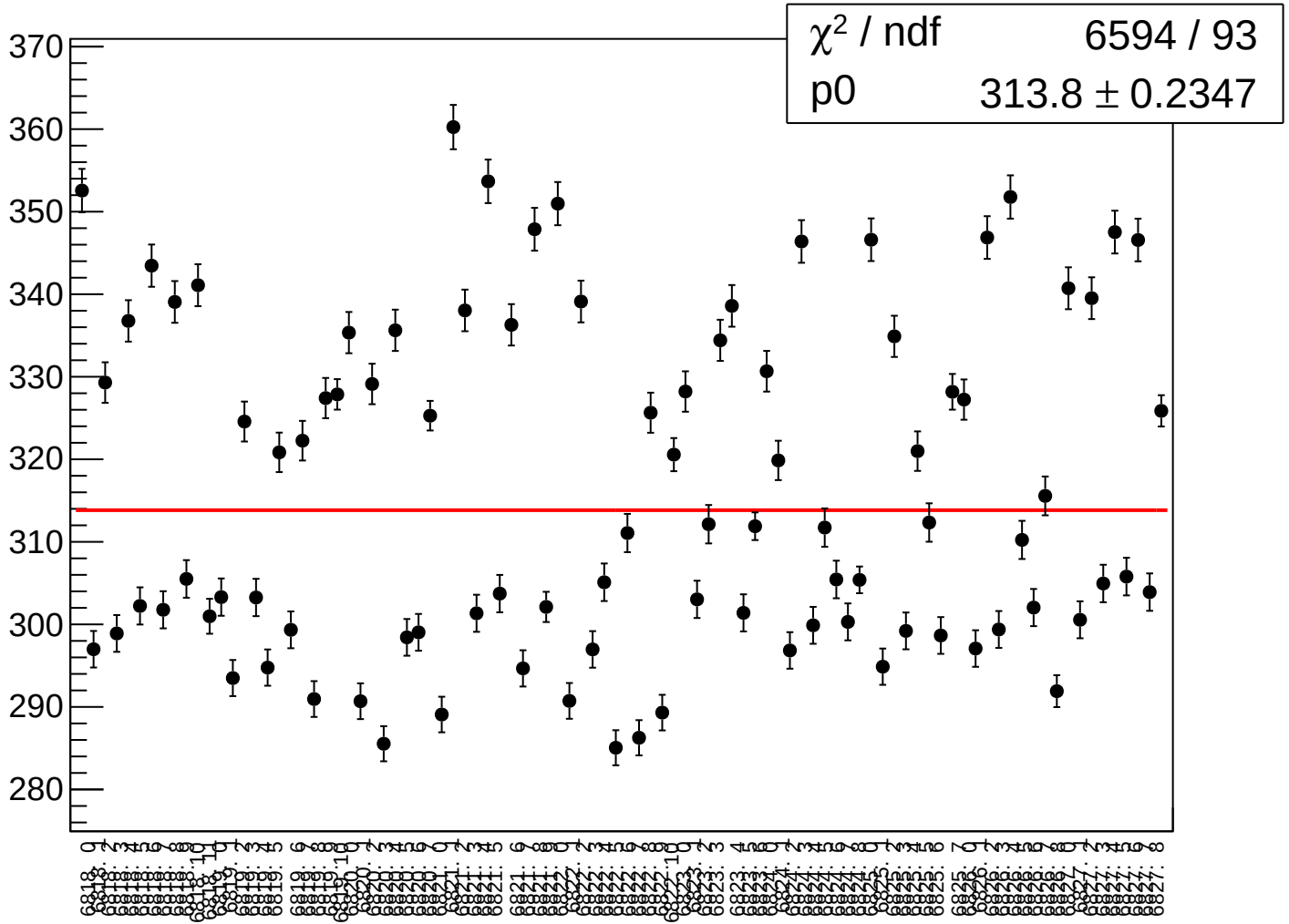

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 72.98 / 93
p0 −374.6 ± 319.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −175.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

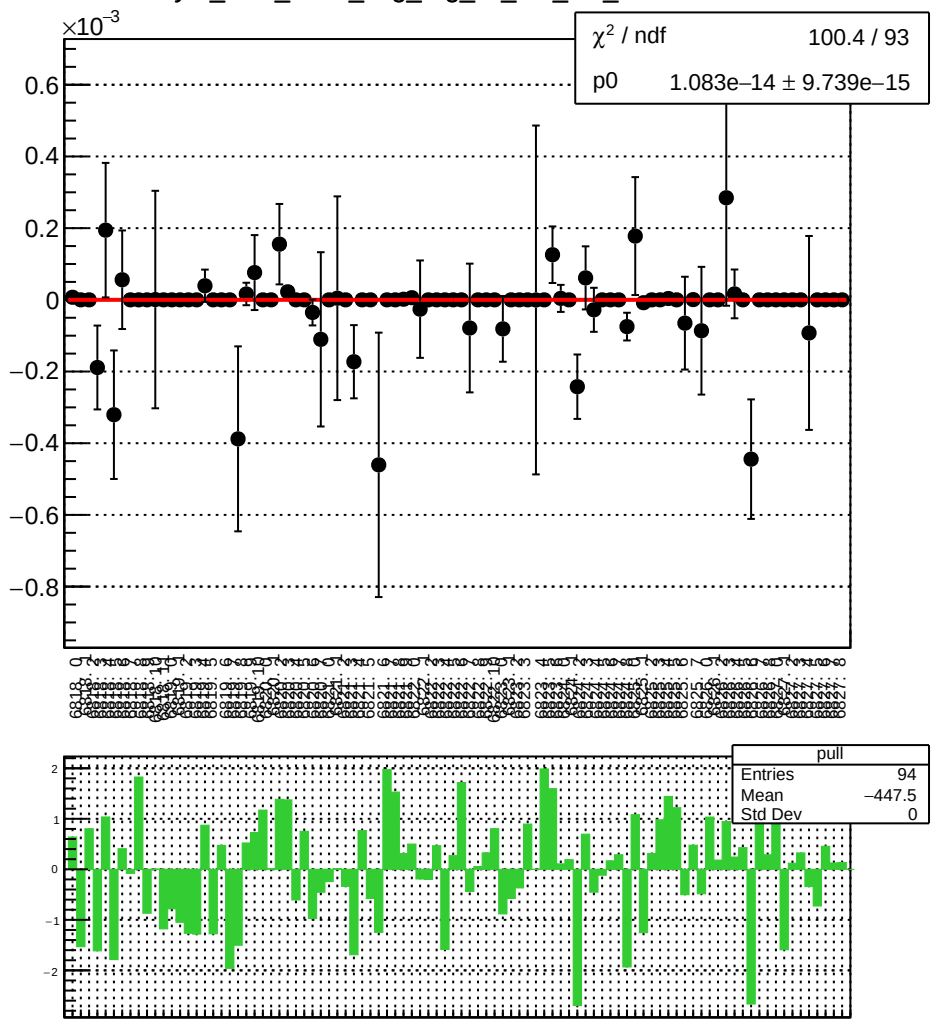

pull1D
Entries 94
Mean −0.008806
Std Dev 0.8811
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

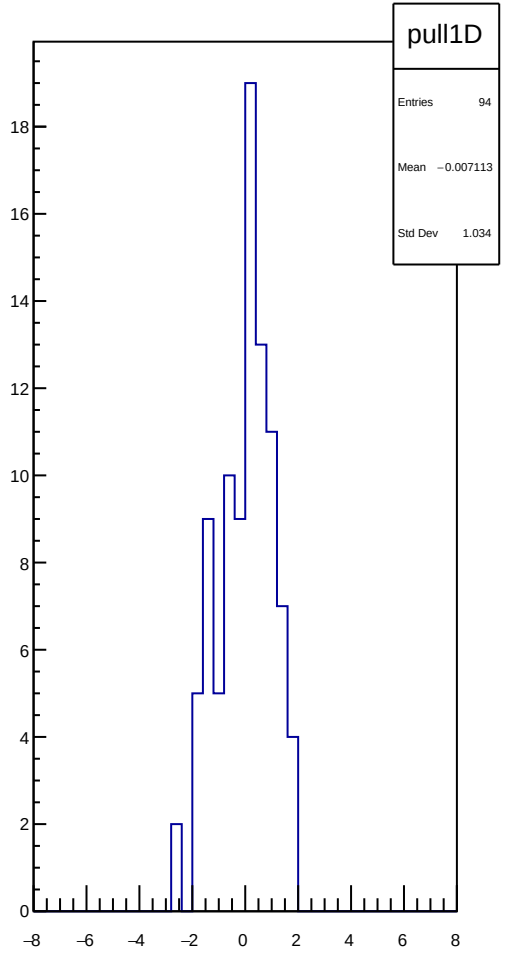

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2809 / 93
p0 302.2 ± 0.2257
330
320
310
300
290
280

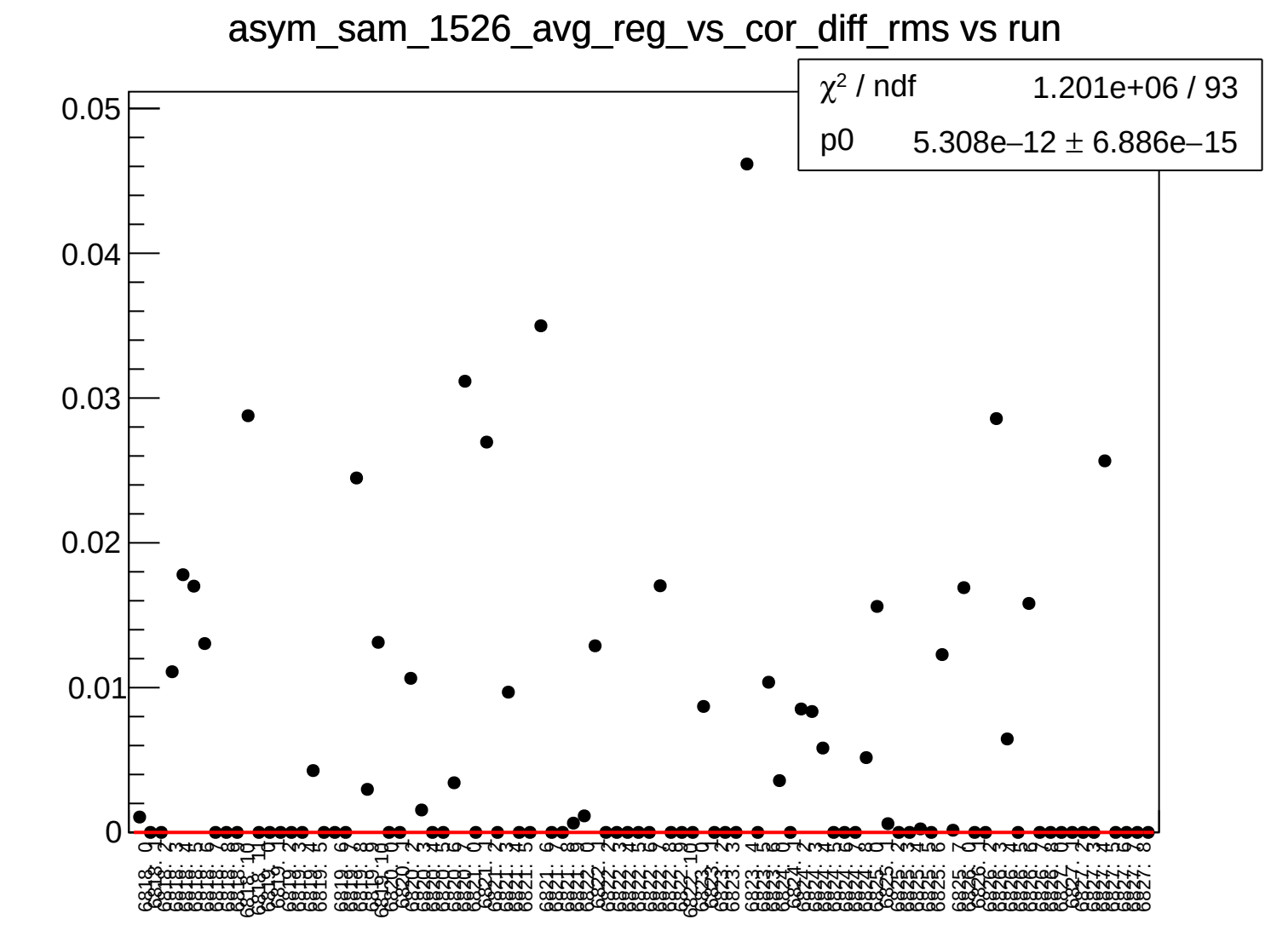

asym_sam_1526_avg_mean vs run
χ² / ndf 72.5 / 93
p0 259.4 ± 331.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −76.17
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

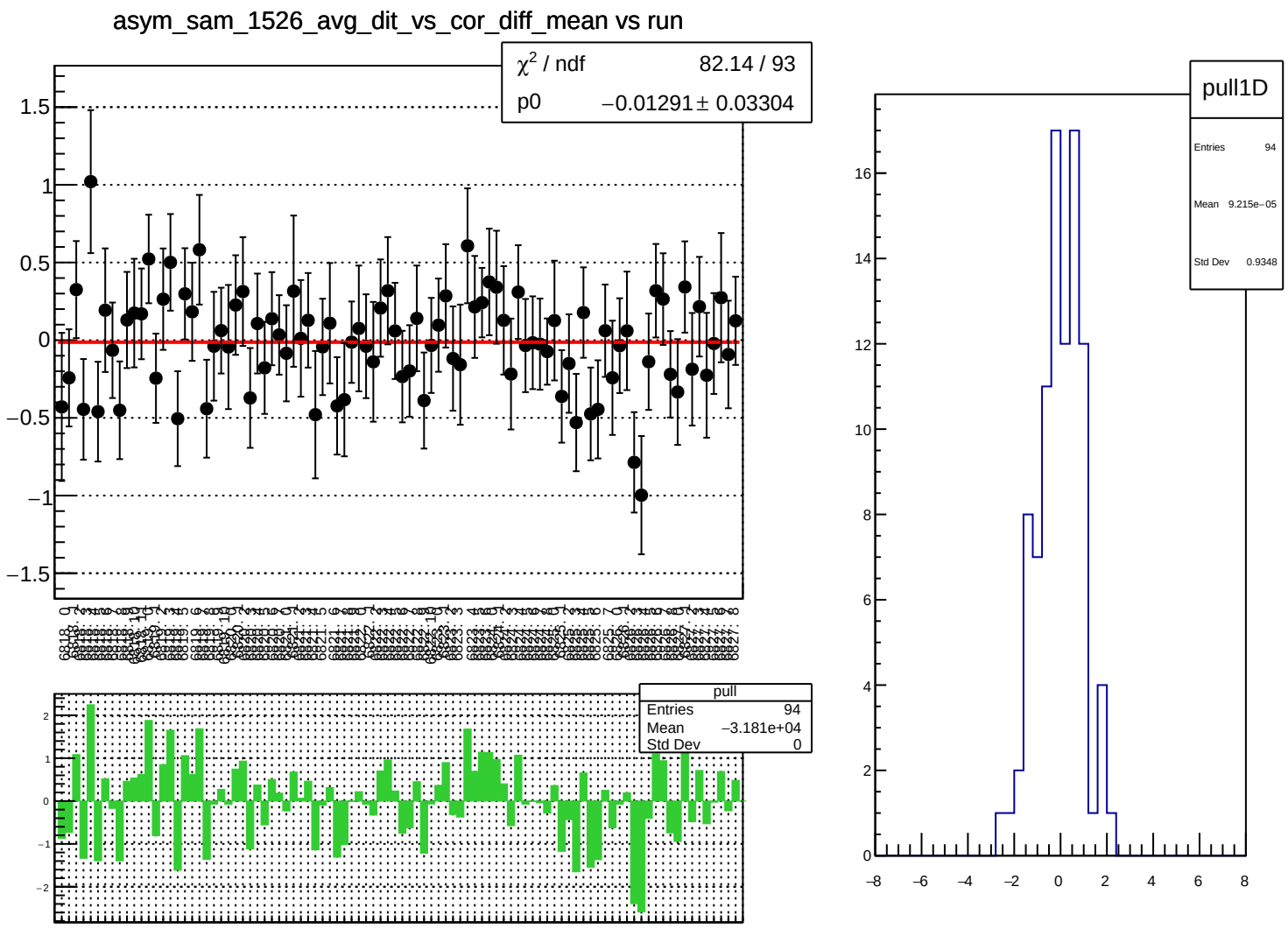

pull1D
Entries 94
Mean 0.01086
Std Dev 0.8781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

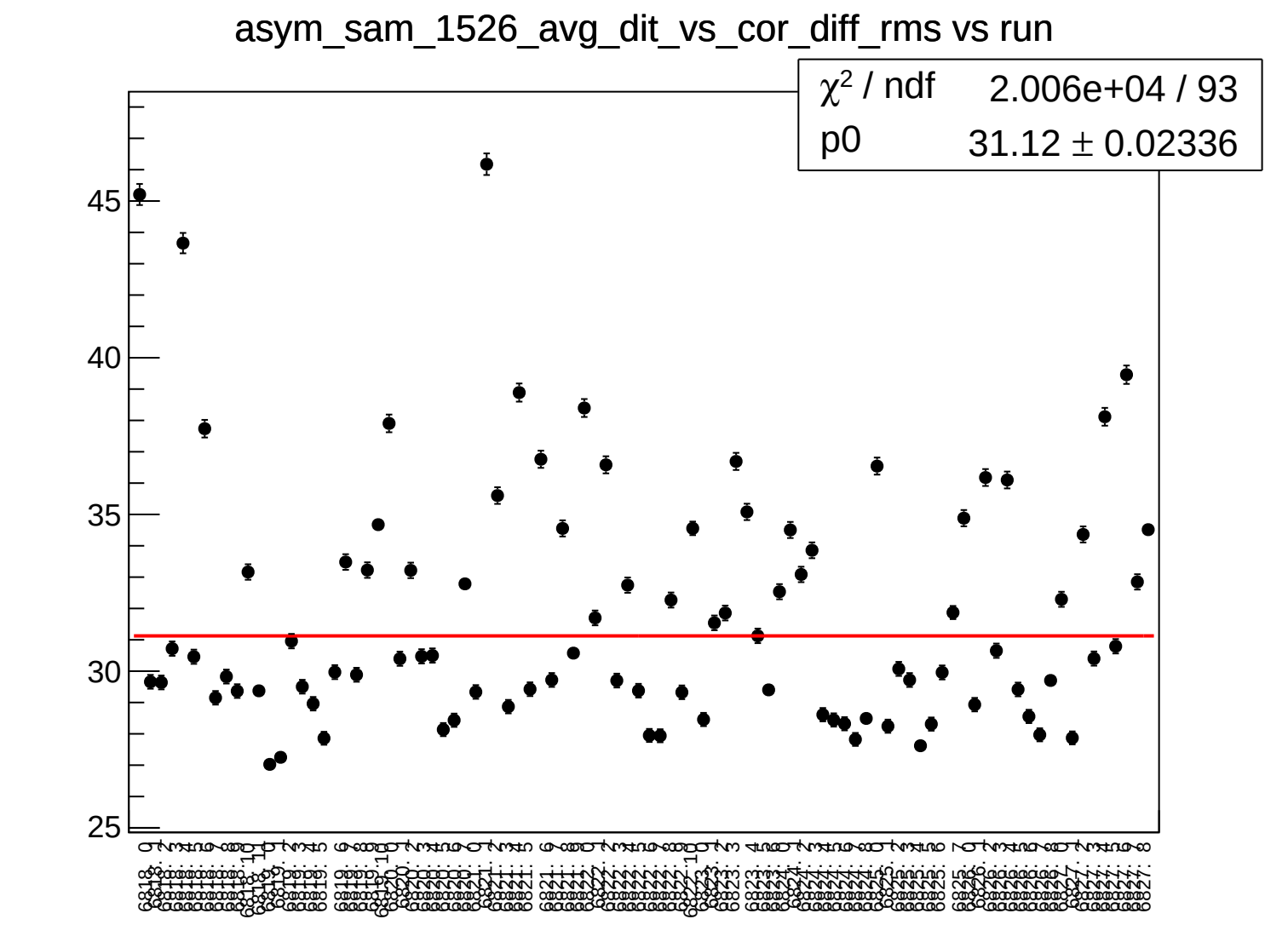

asym_sam_1526_avg_rms vs run
χ^2 / ndf 6594 / 93
p0 313.8 ± 0.2347
370
360
350
340
330
320
310
300
290
280

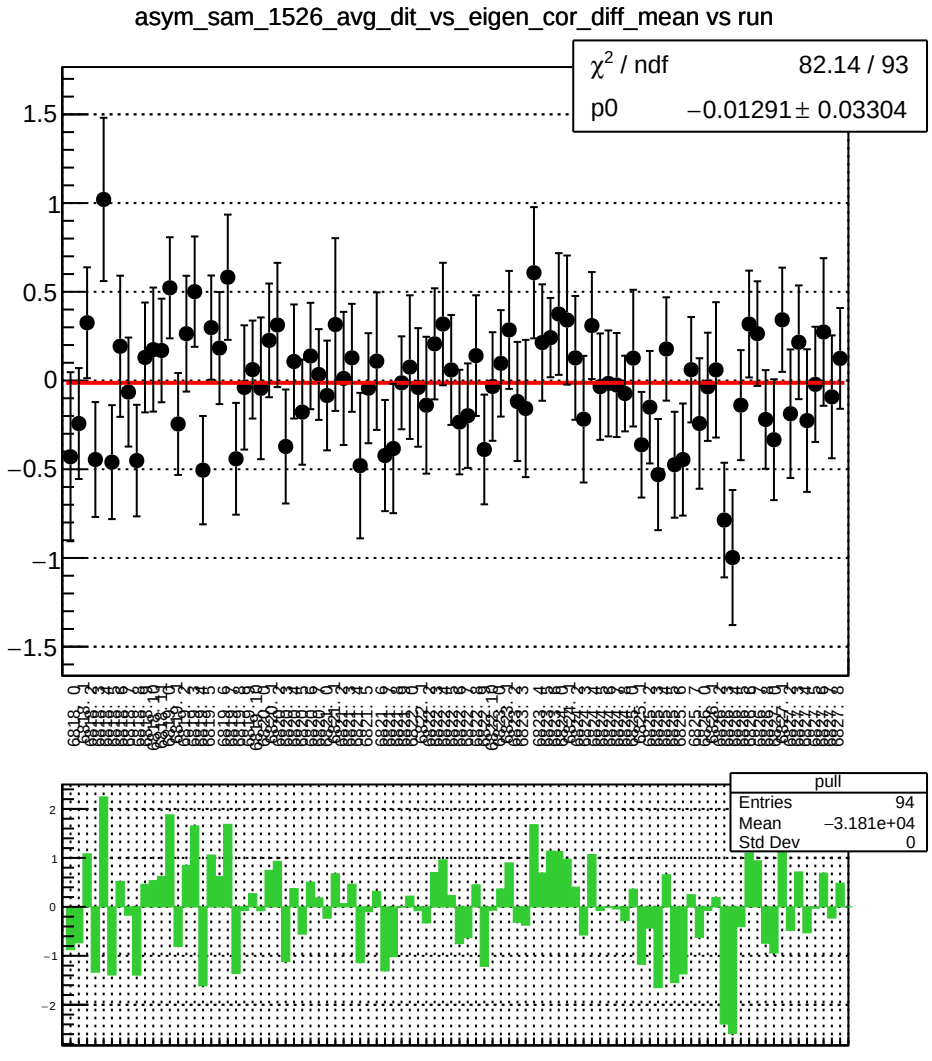

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 100.4 / 93
p0 1.083e−14 ± 9.739e−15
pull
Entries 94
Mean −447.5
Std Dev 0

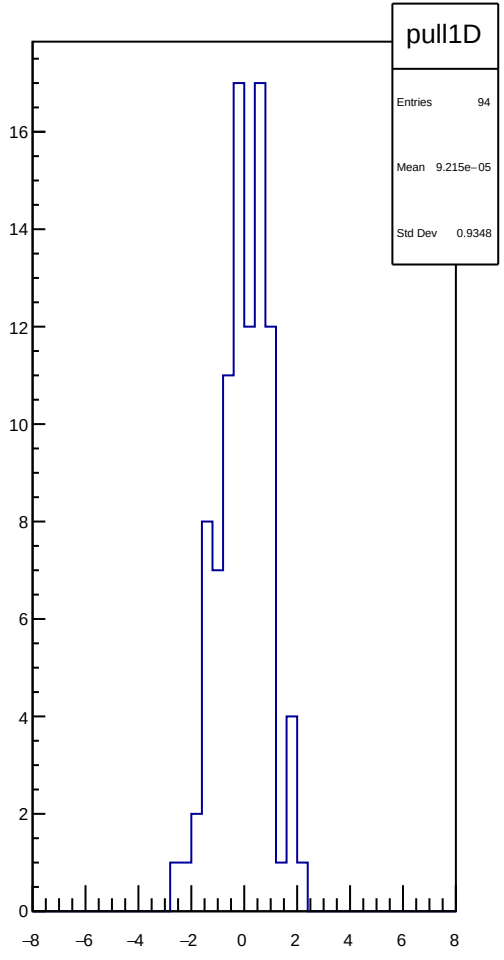

pull1D
Entries 94
Mean −0.007113
Std Dev 1.034

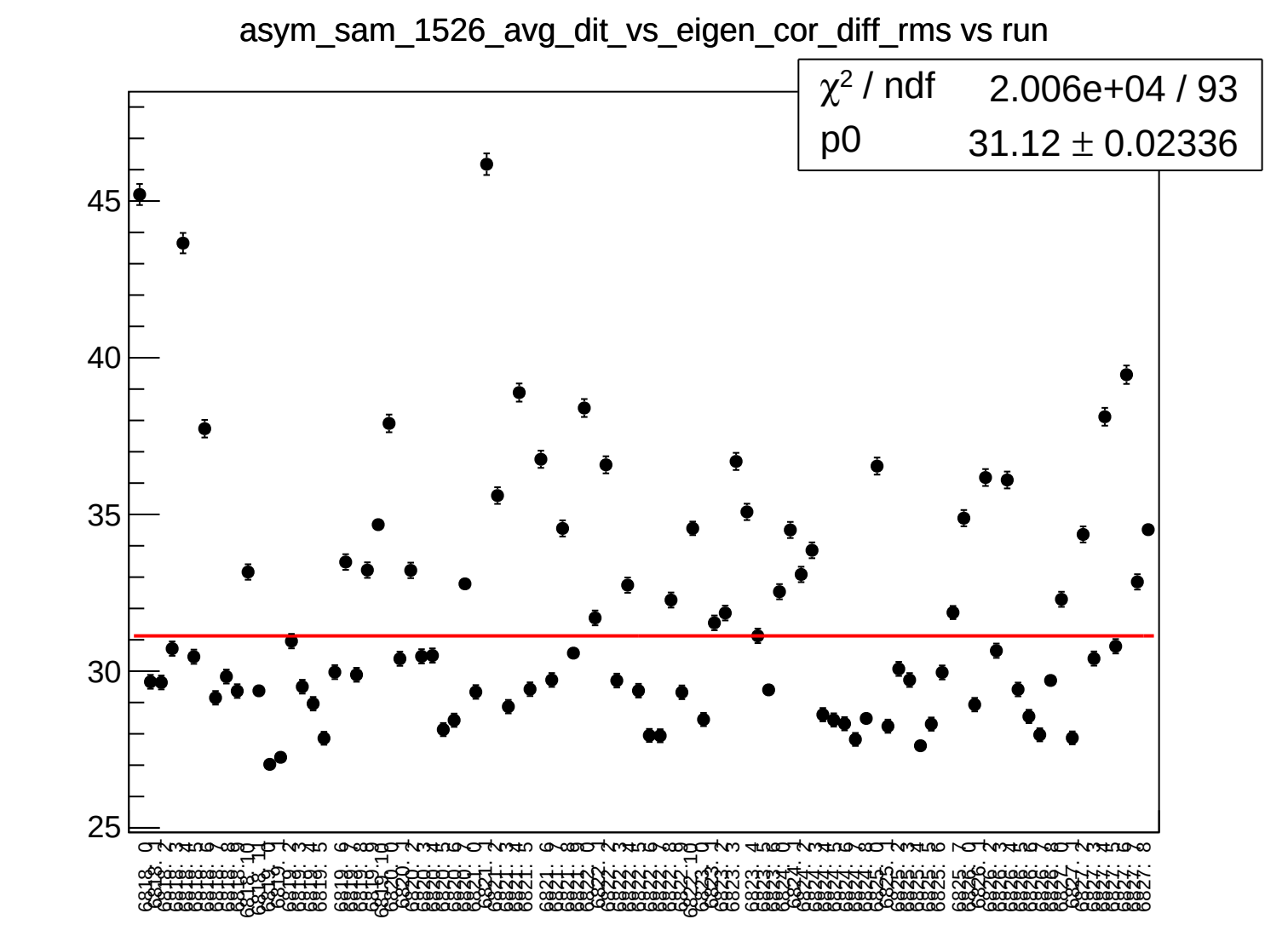

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.201e+06 / 93
p0 5.308e−12 ± 6.886e−15
0.05
0.04
0.03
0.02
0.01
0

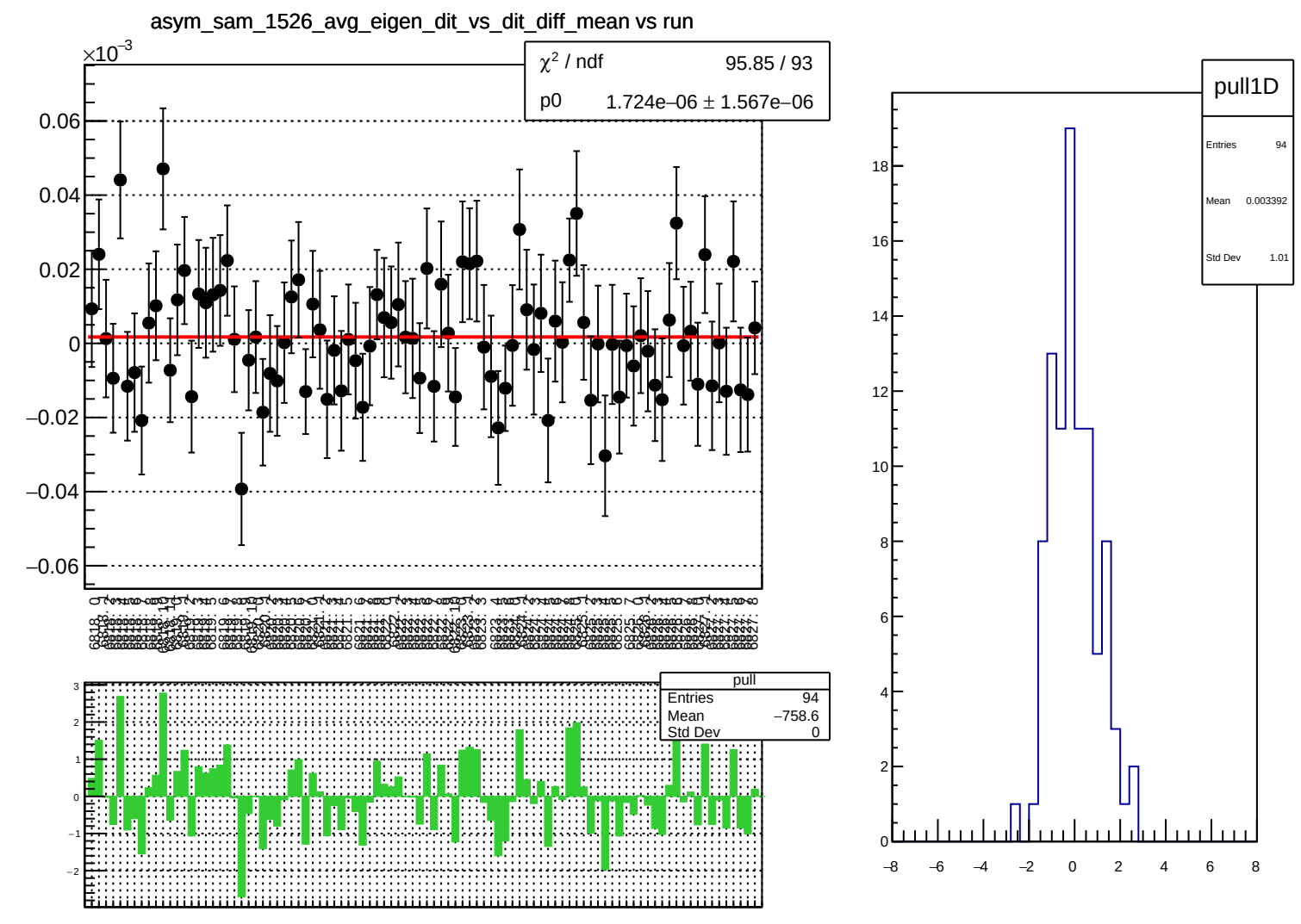

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 93
p0 −0.01291 ± 0.03304
pull
Entries 94
Mean −3.181e+04
Std Dev 0
pull1D
Entries 94
Mean 9.215e−05
Std Dev 0.9348

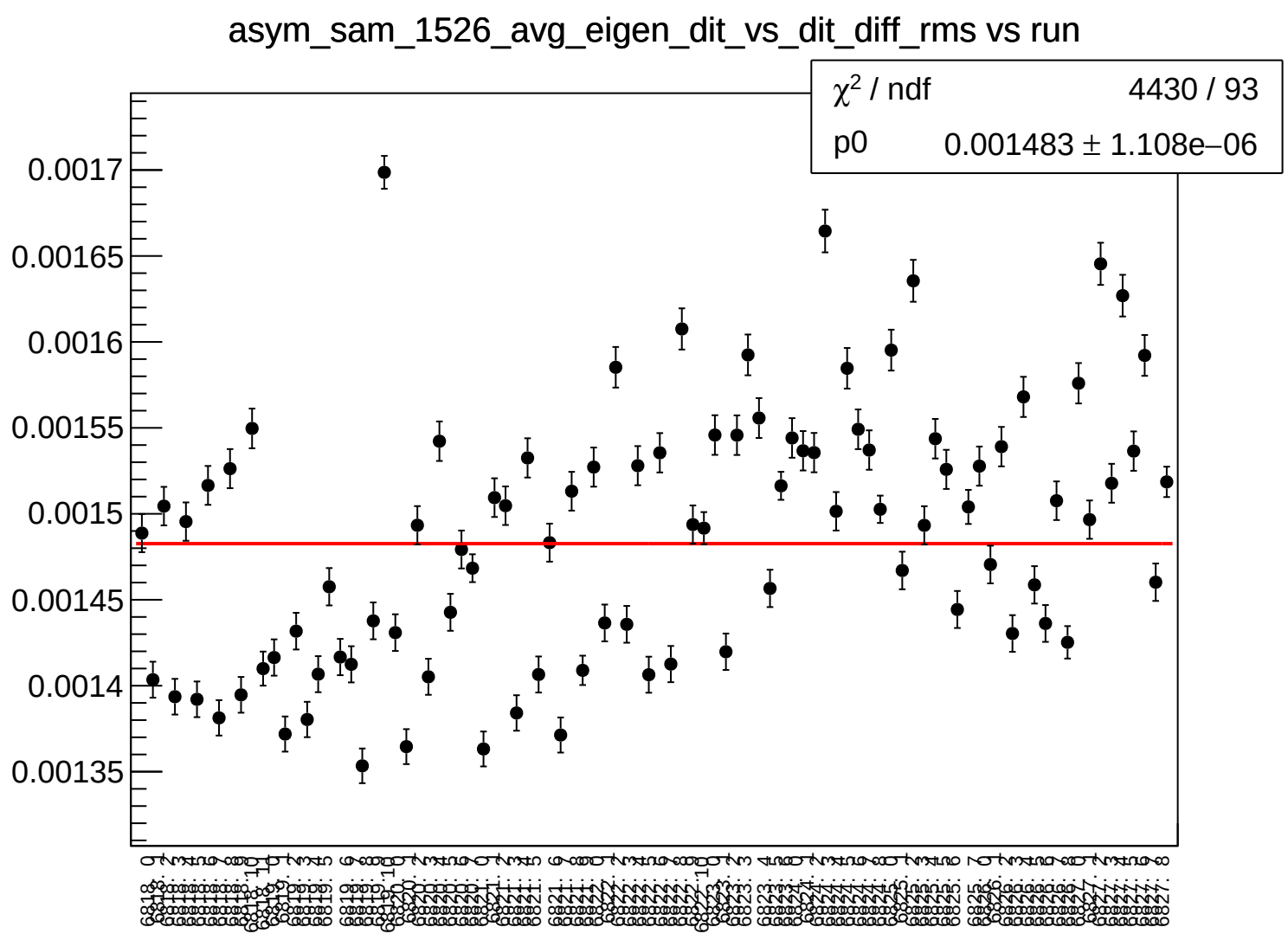

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.006e+04 / 93
p0 31.12 ± 0.02336
45
40
35
30
25

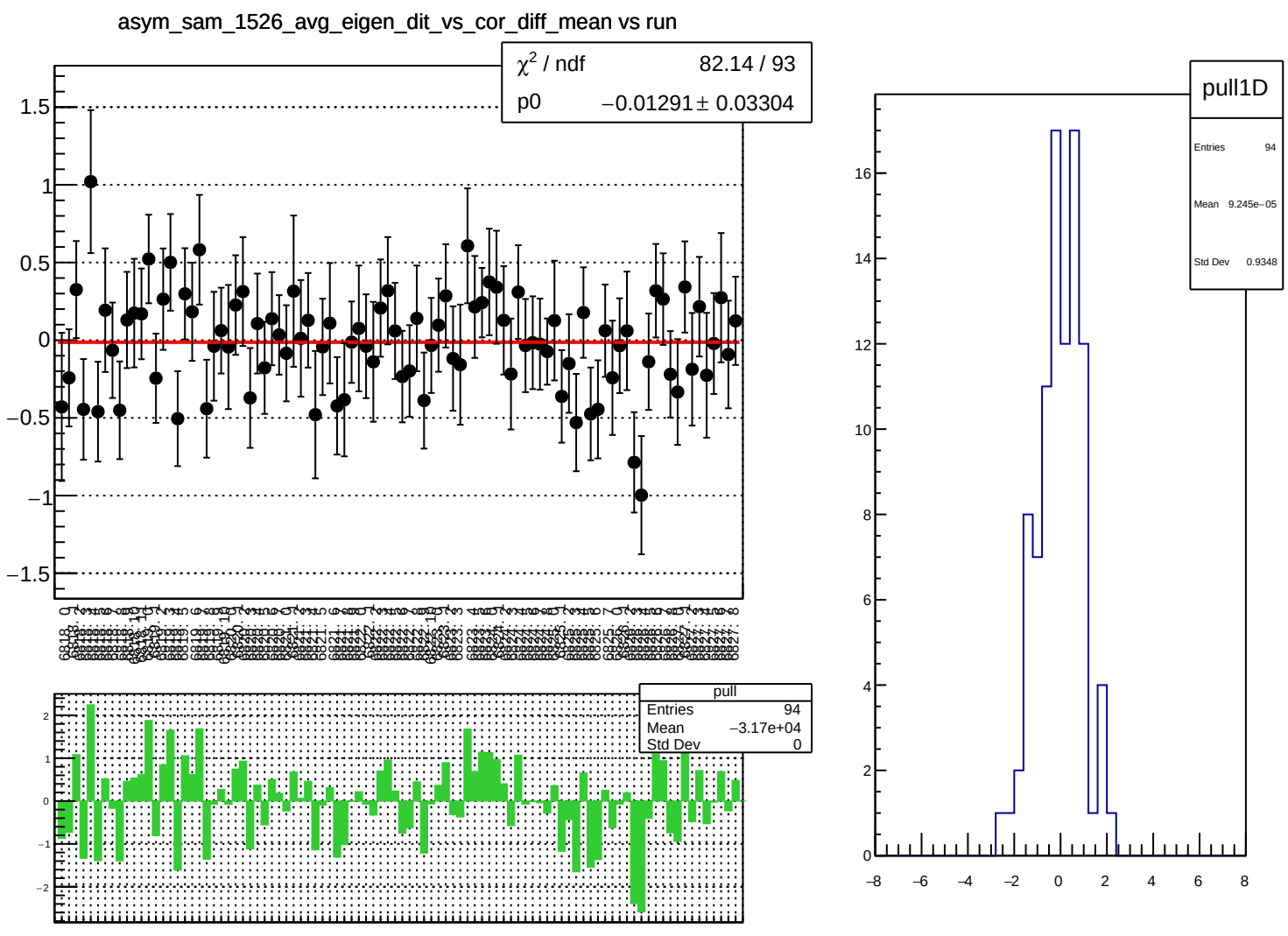

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 93
p0 −0.01291 ± 0.03304
pull
Entries 94
Mean −3.181e+04
Std Dev 0

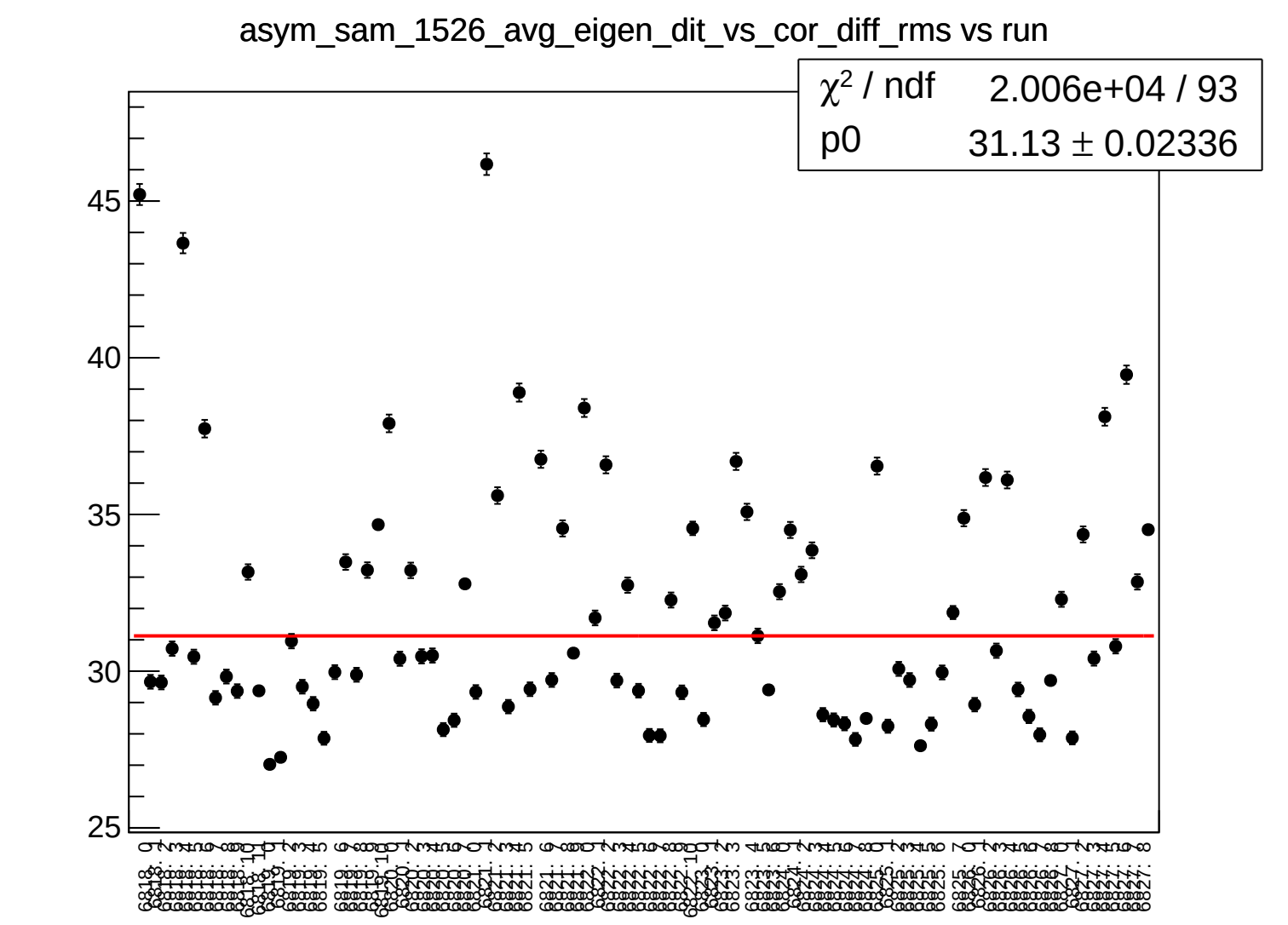

pull1D
Entries 94
Mean 9.215e−05
Std Dev 0.9348

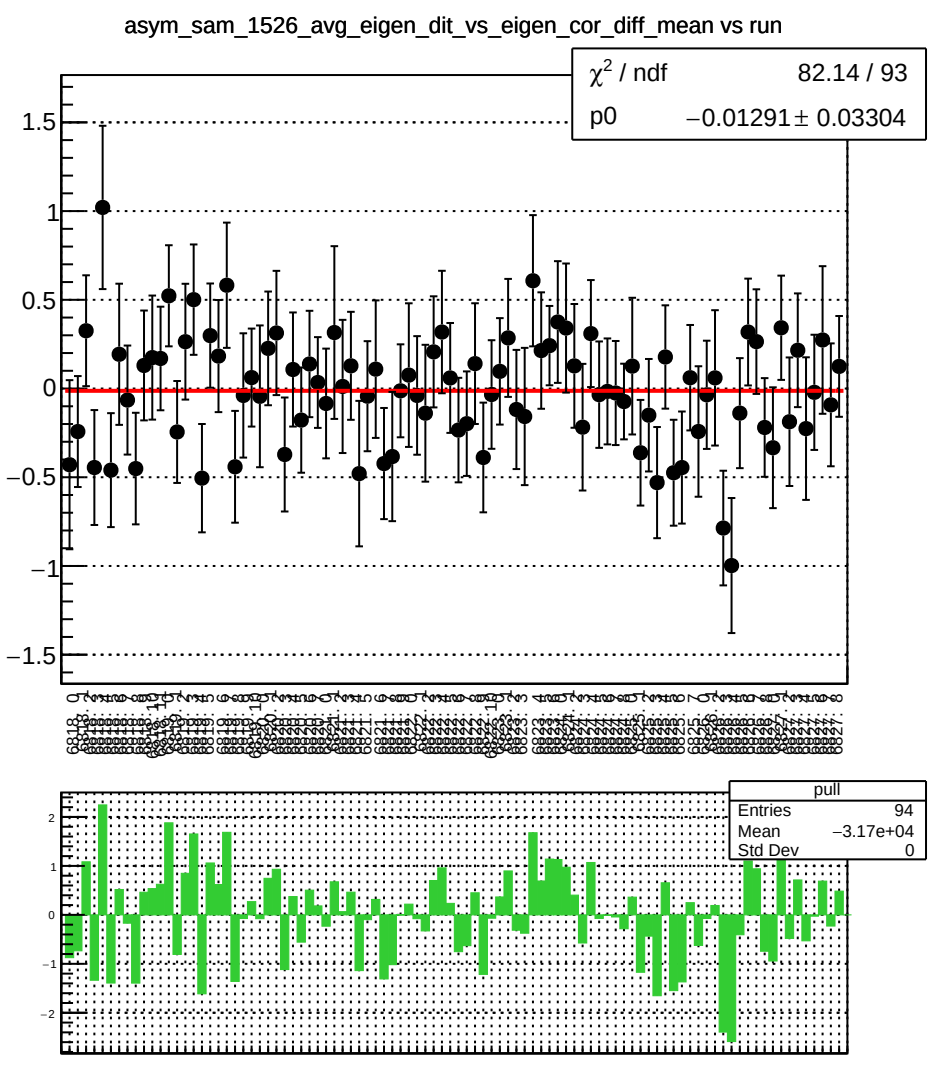

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.006e+04 / 93
p0 31.12 ± 0.02336
45
40
35
30
25

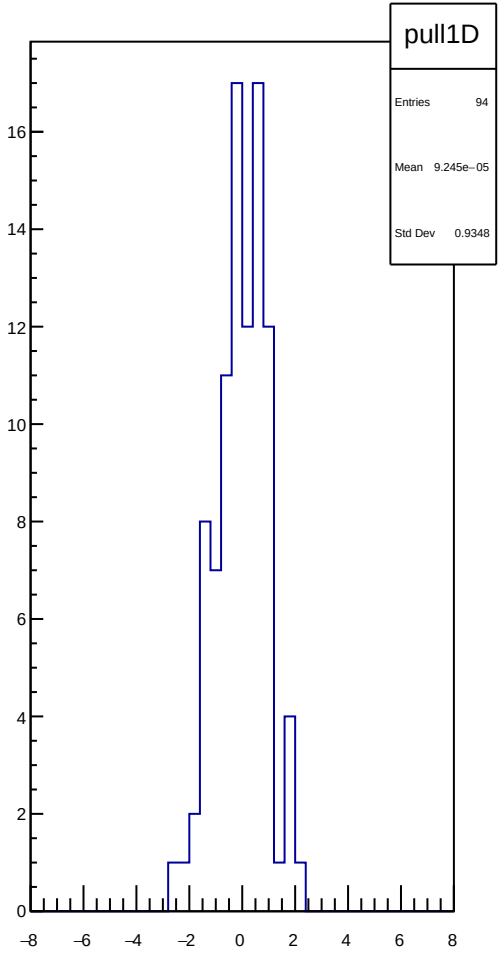

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.85 / 93
p0 1.724e−06 ± 1.567e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −758.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003392
Std Dev 1.01
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

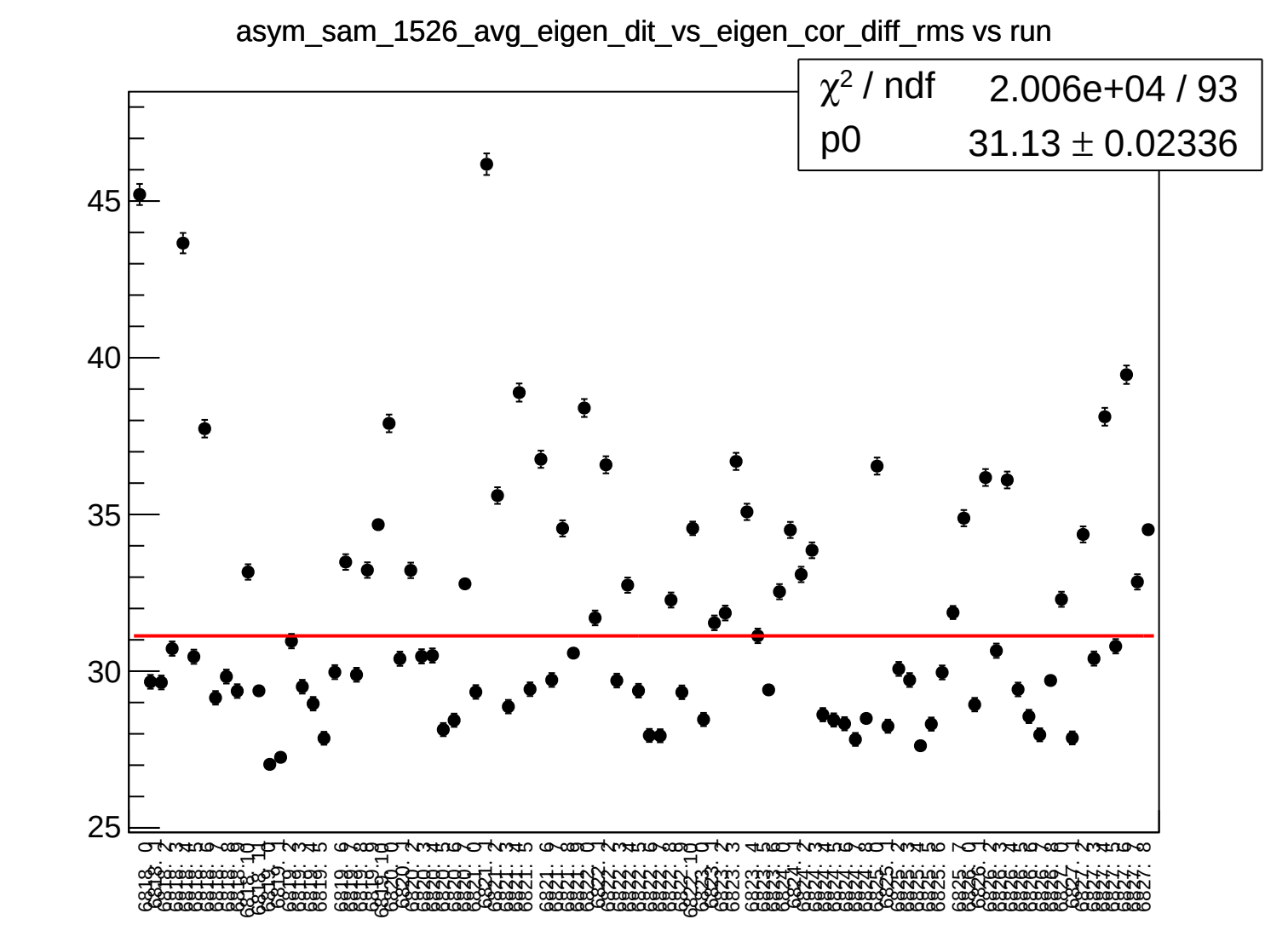

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4430 / 93
p0 0.001483 ± 1.108e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135

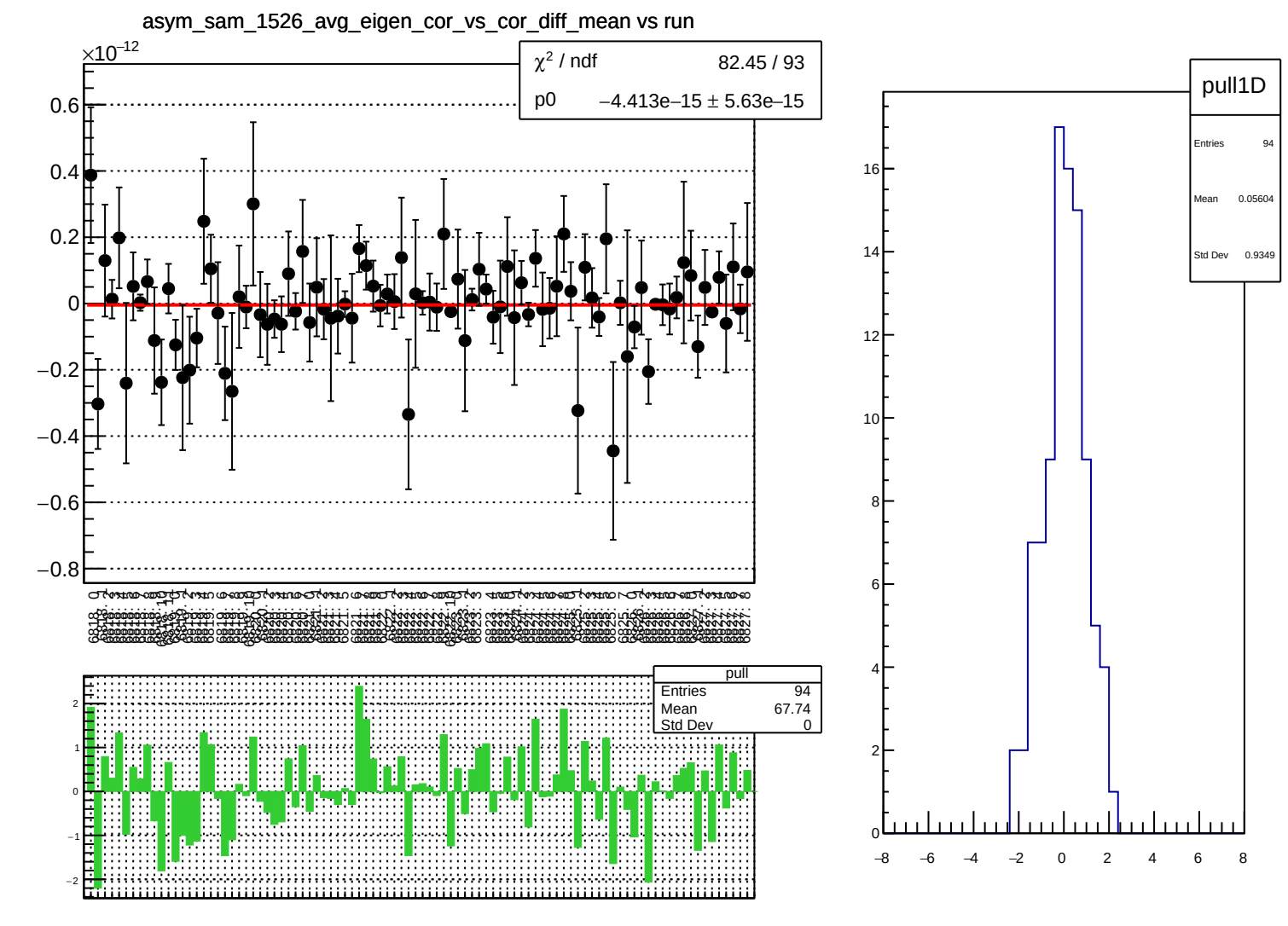

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 93
p0 −0.01291 ± 0.03304
pull
Entries 94
Mean −3.17e+04
Std Dev 0
pull1D
Entries 94
Mean 9.245e−05
Std Dev 0.9348

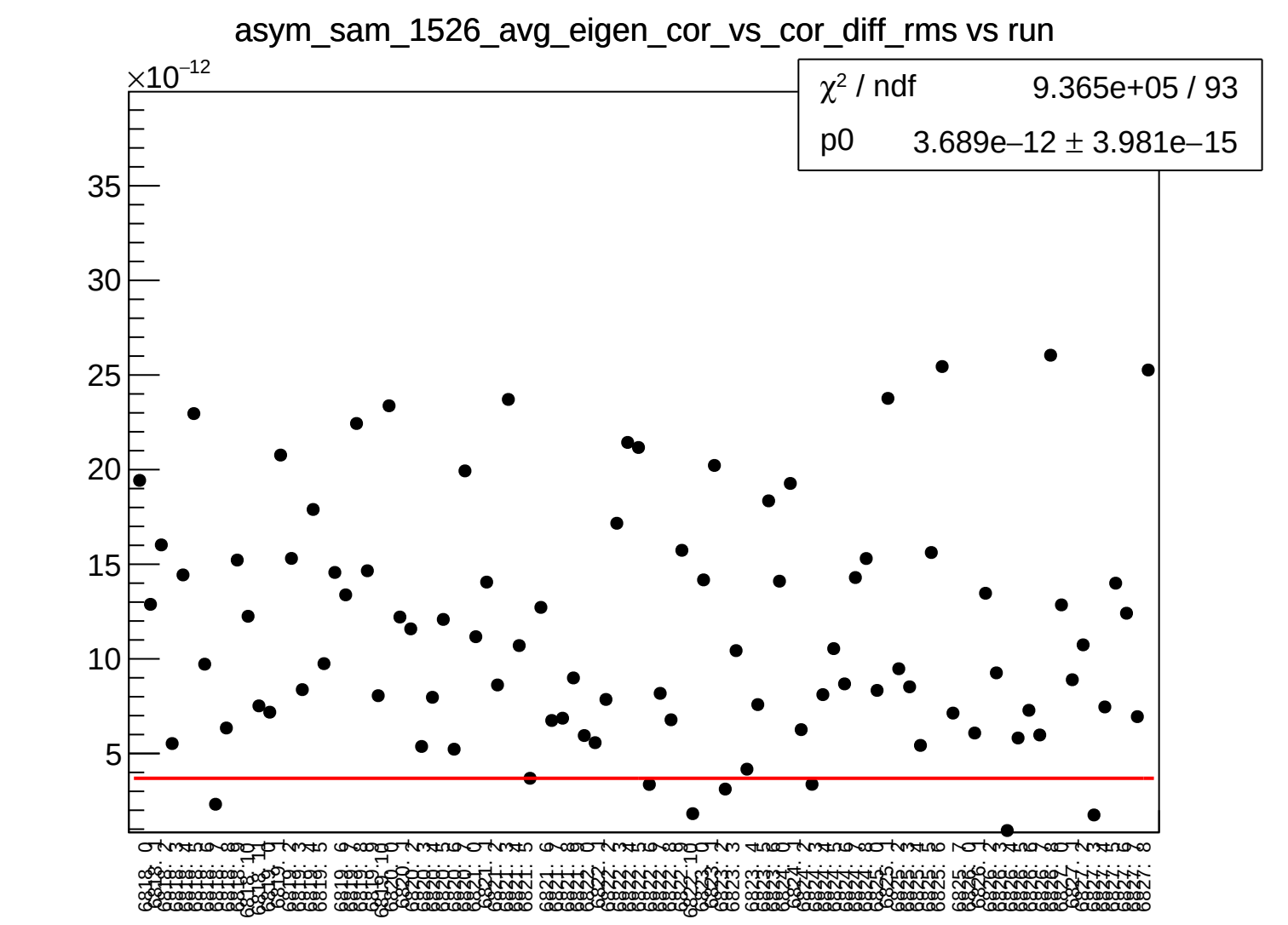

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.006e+04 / 93
p0 31.13 ± 0.02336
45
40
35
30
25

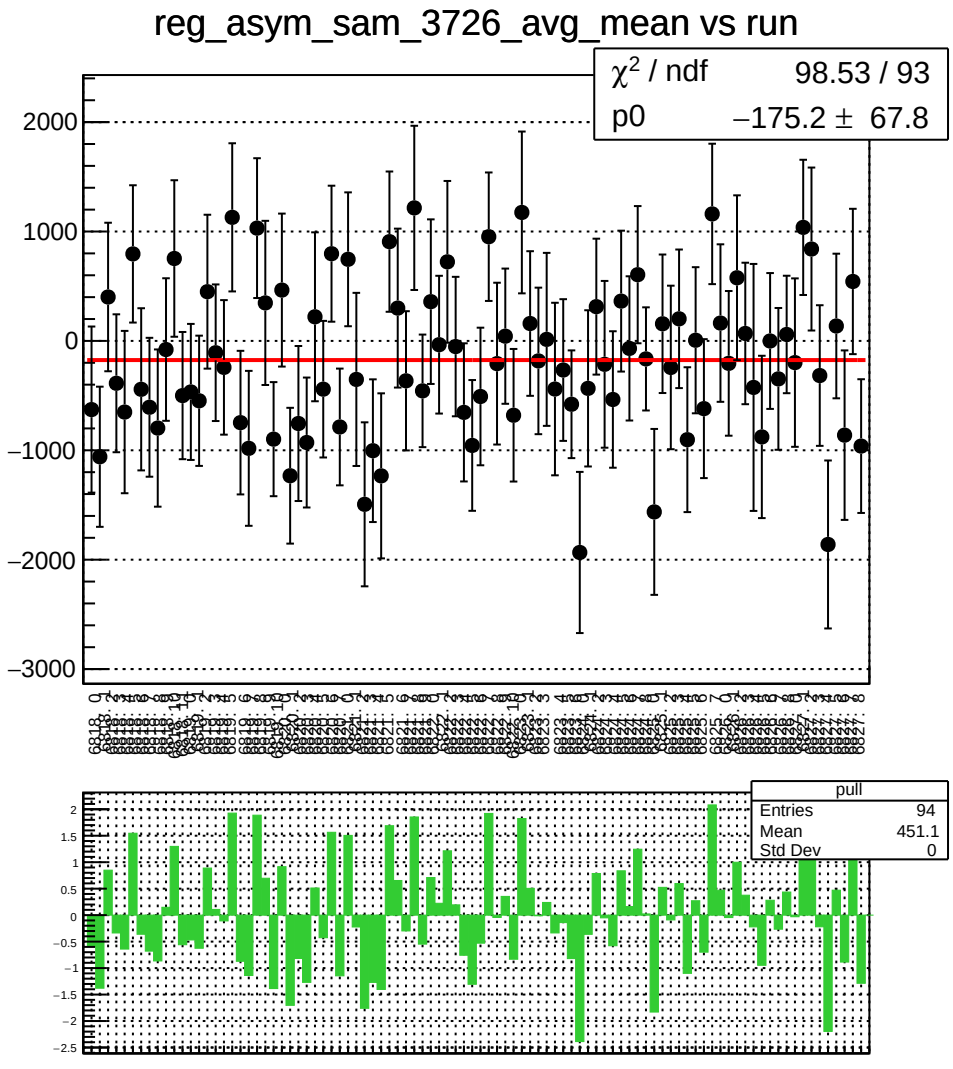

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 93
p0 −0.01291 ± 0.03304
pull
Entries 94
Mean −3.17e+04
Std Dev 0

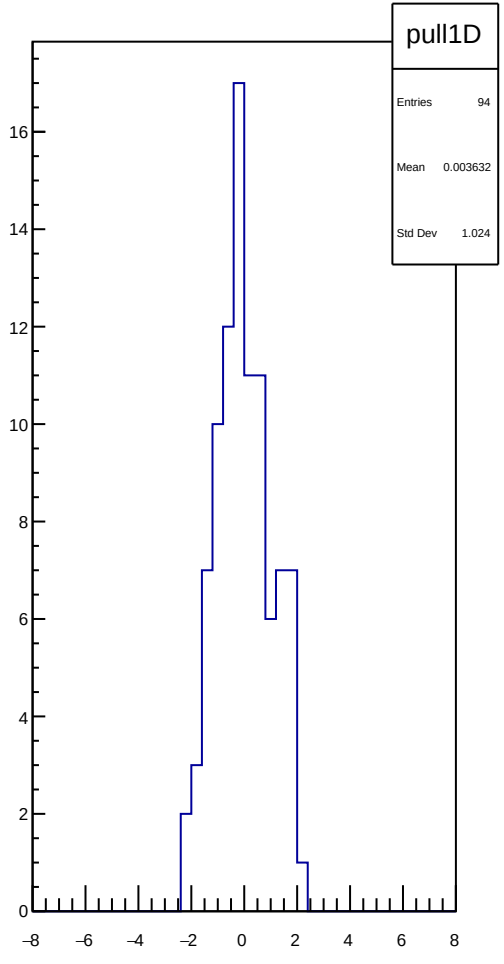

pull1D
Entries 94
Mean 9.245e−05
Std Dev 0.9348

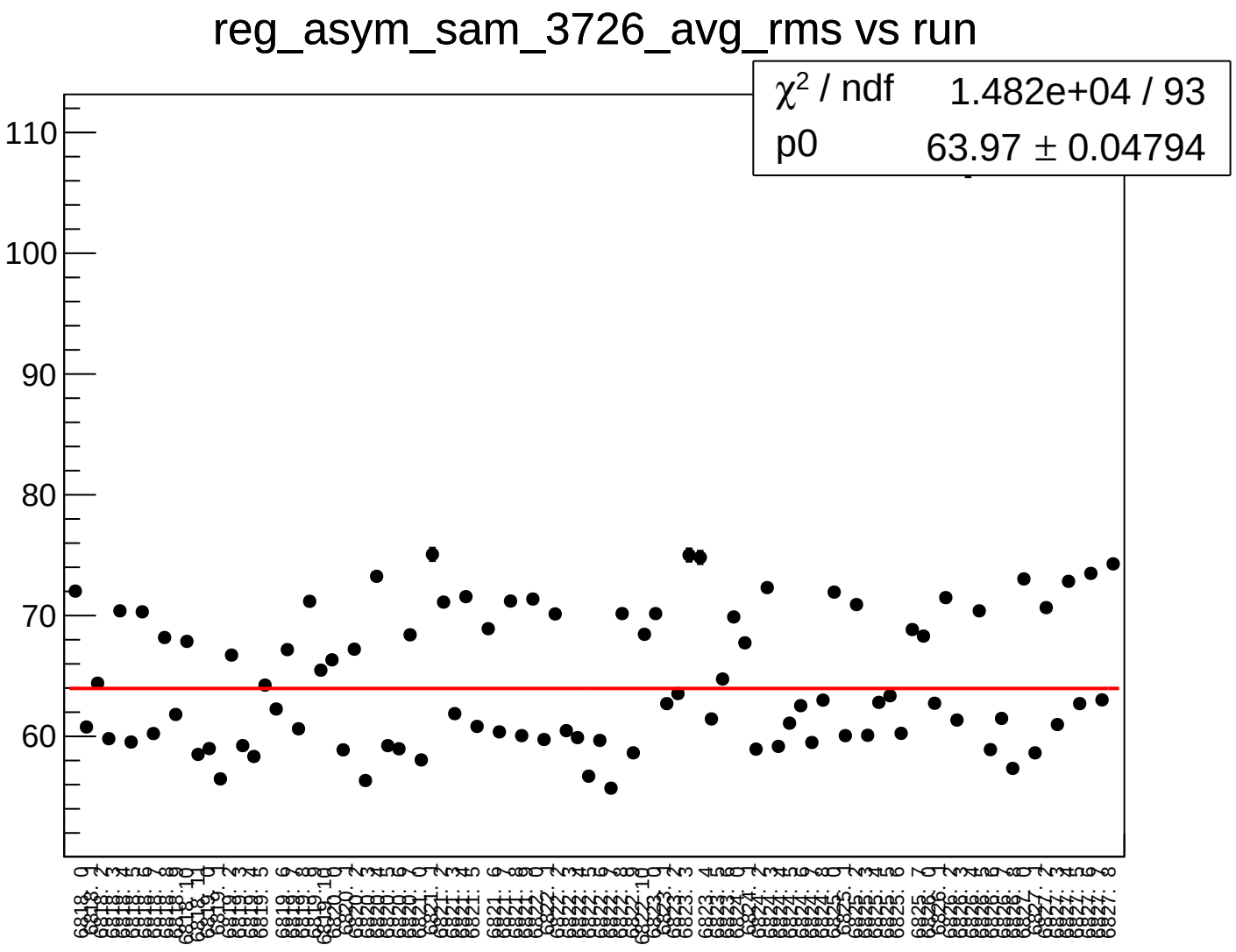

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.006e+04 / 93
p0 31.13 ± 0.02336
45
40
35
30
25

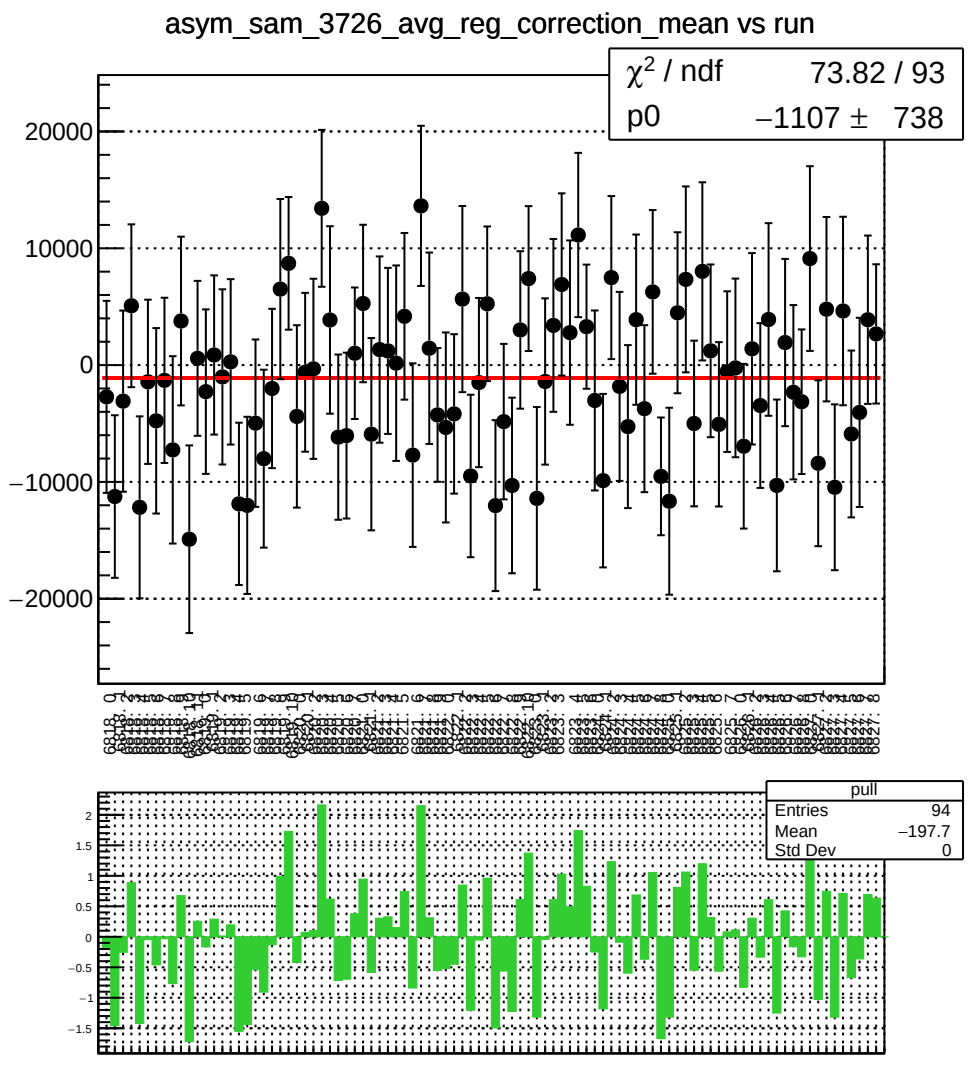

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.45 / 93
p0 −4.413e−15 ± 5.63e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean 67.74
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.05604
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

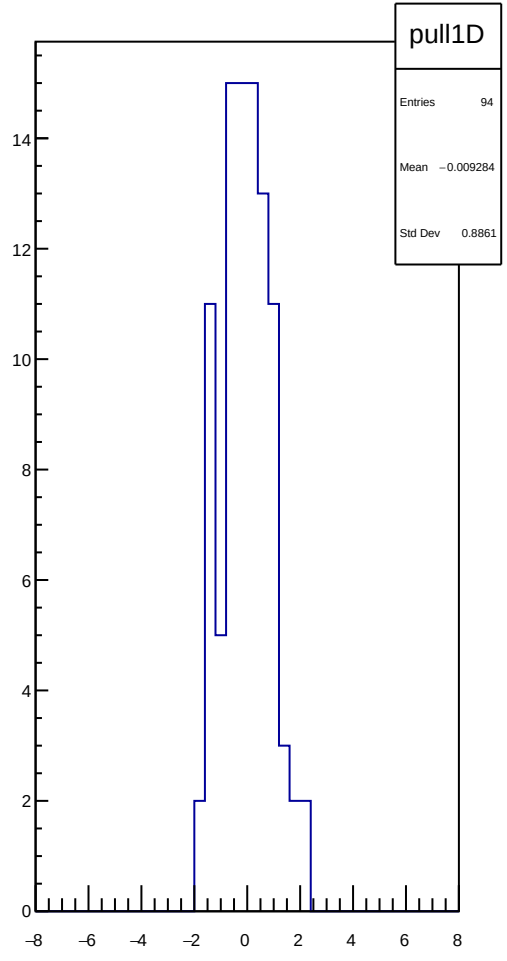

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.365e+05 / 93
p0 3.689e−12 ± 3.981e−15
35
30
25
20
15
10
5

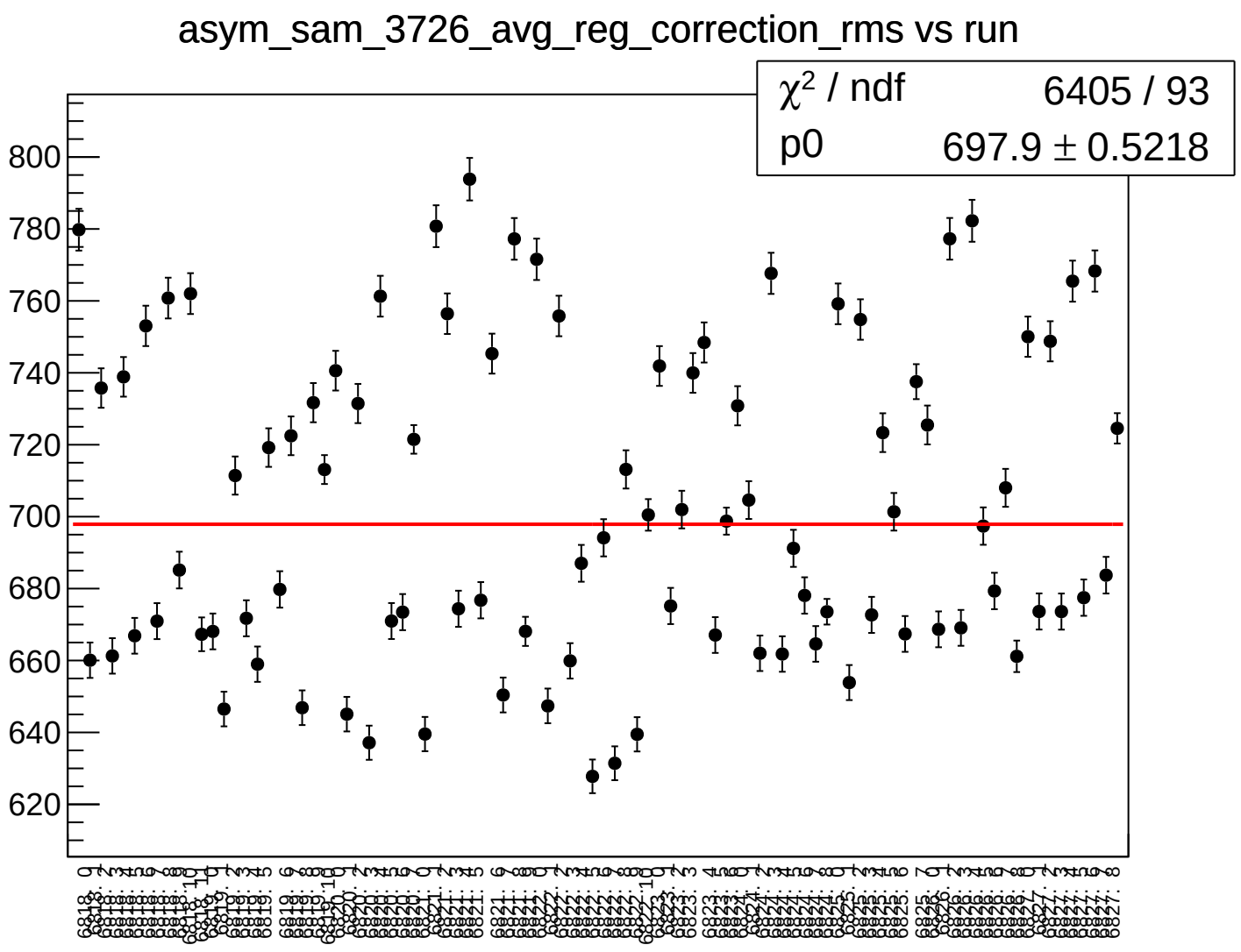

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 98.53 / 93
p0 −175.2 ± 67.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 451.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

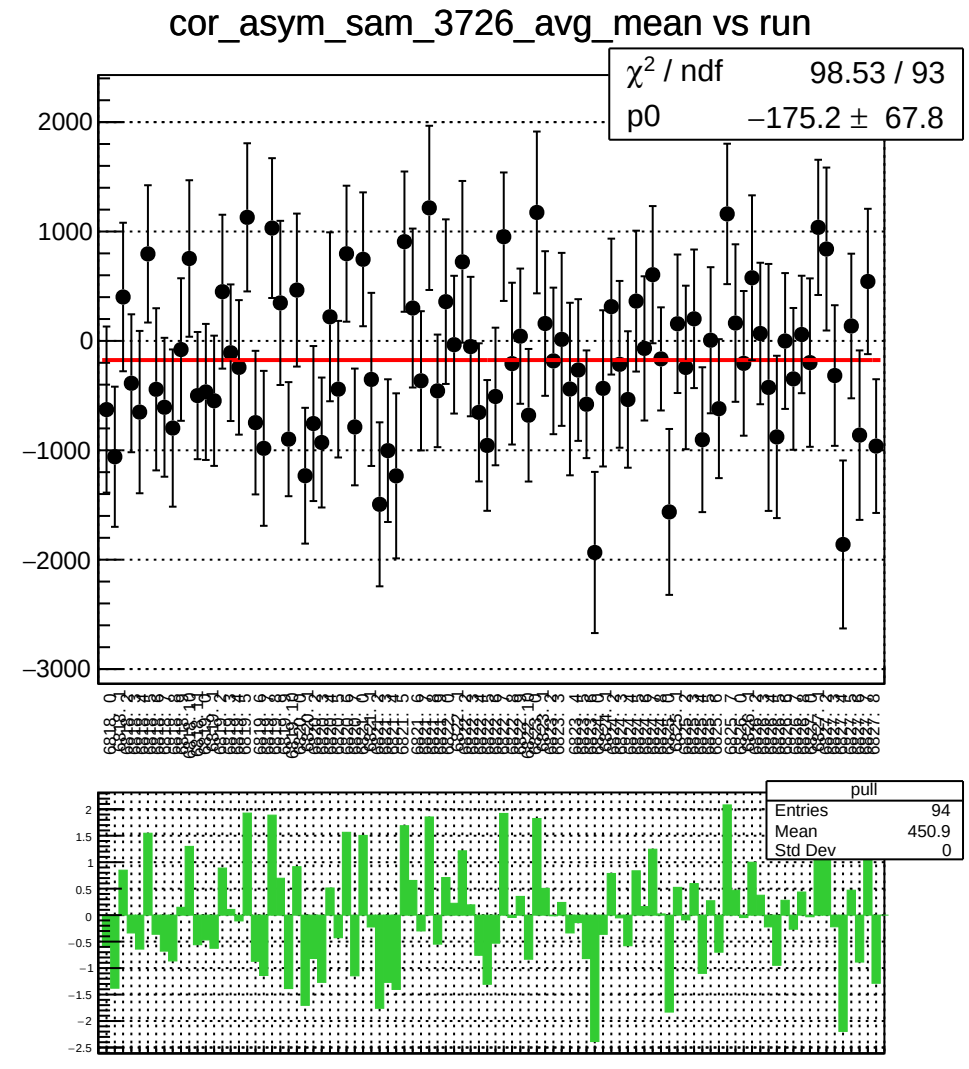

pull1D
Entries 94
Mean 0.003632
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

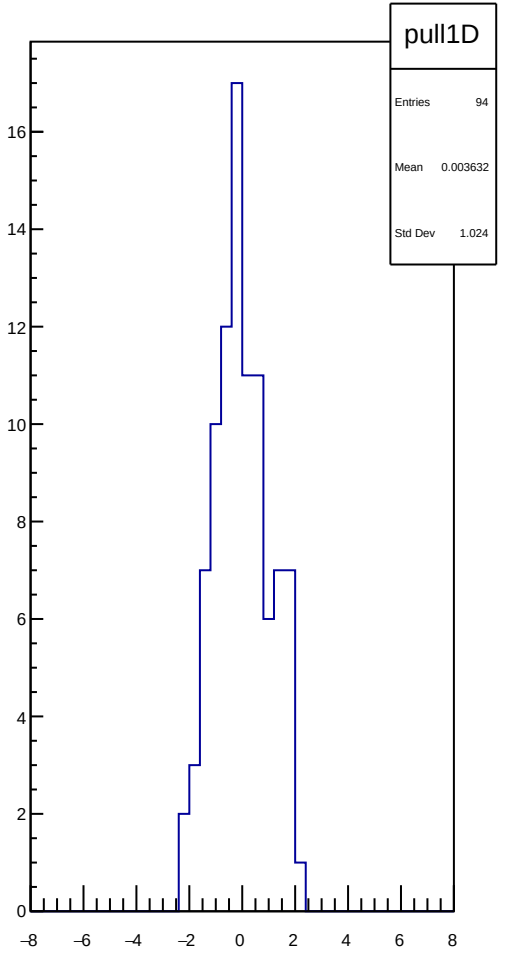

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 1.482e+04 / 93
p0 63.97 ± 0.04794
110
100
90
80
70
60

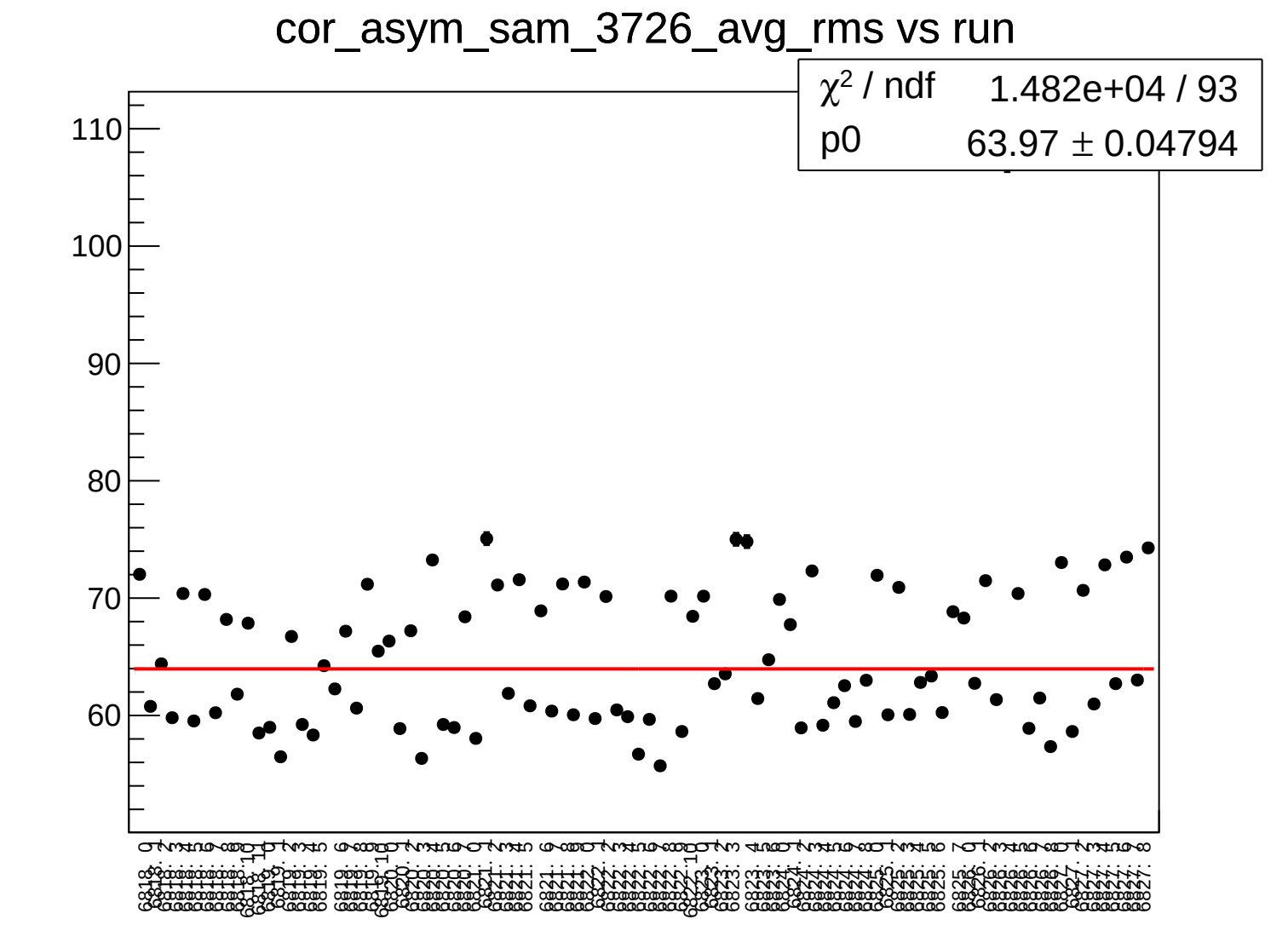

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 73.82 / 93
p0 −1107 ± 738
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −197.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

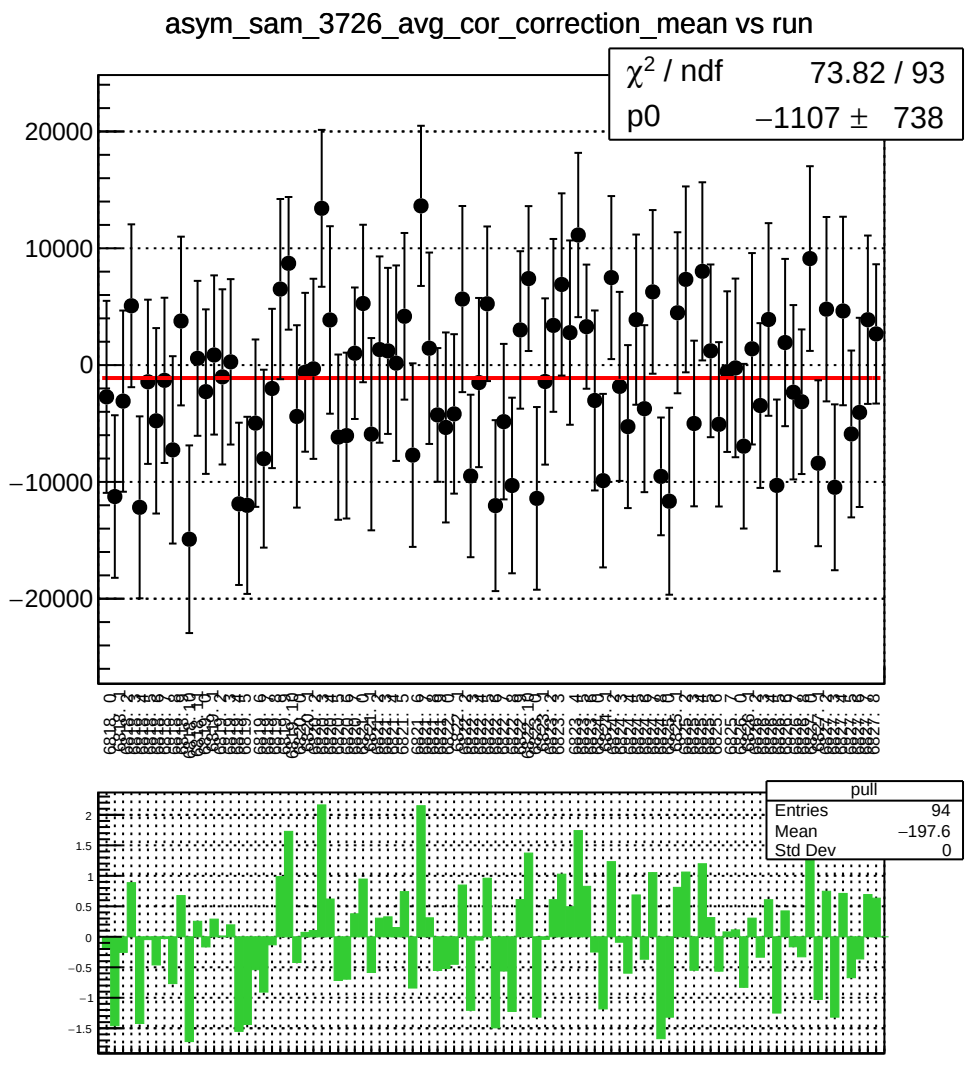

pull1D
Entries 94
Mean −0.009284
Std Dev 0.8861
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

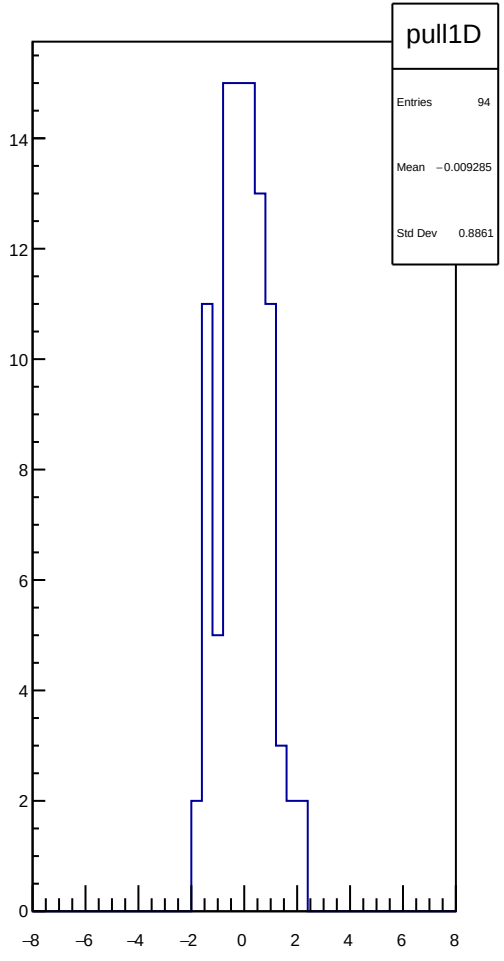

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6405 / 93
p0 697.9 ± 0.5218
800
780
760
740
720
700
680
660
640
620

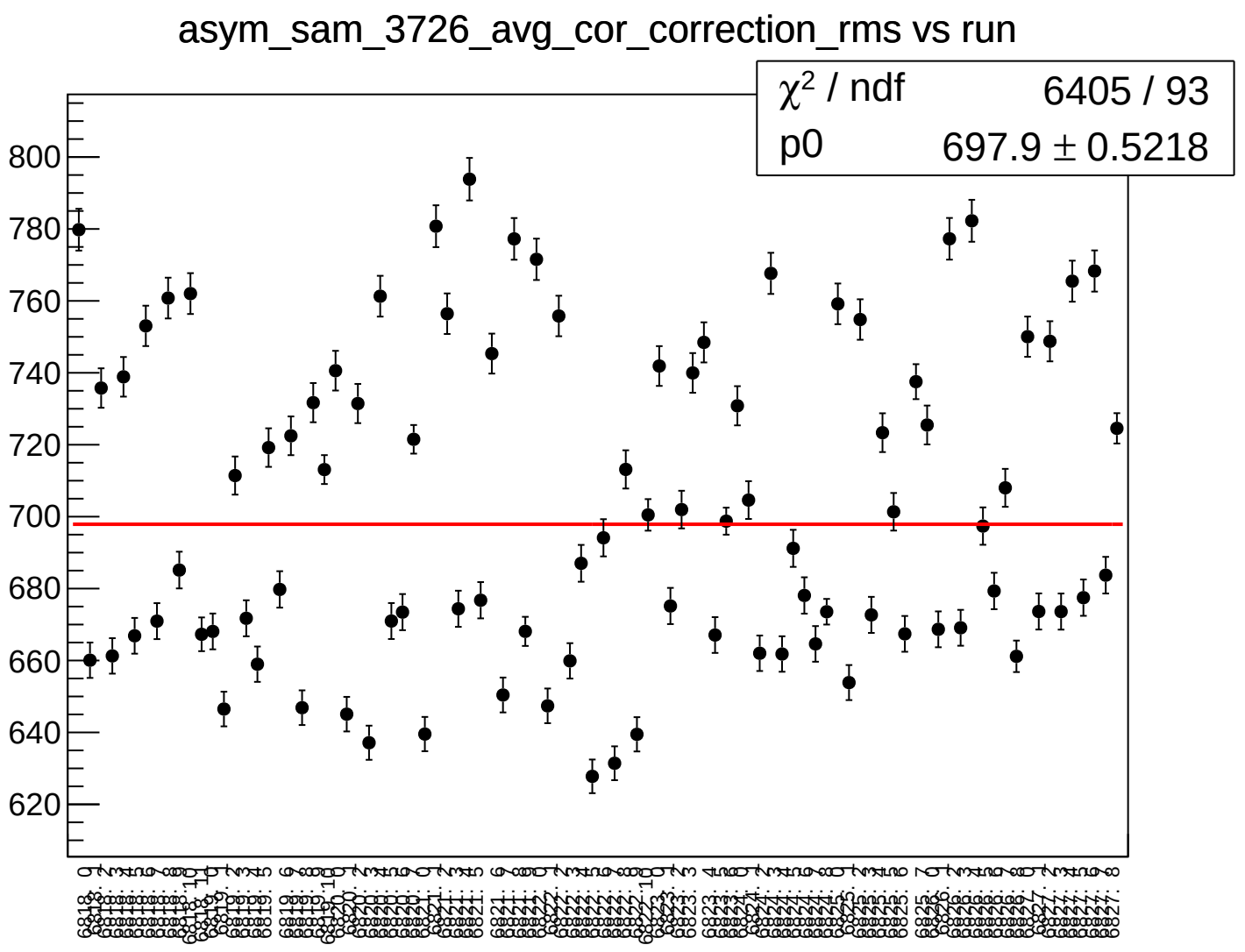

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 98.53 / 93
p0 −175.2 ± 67.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 450.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

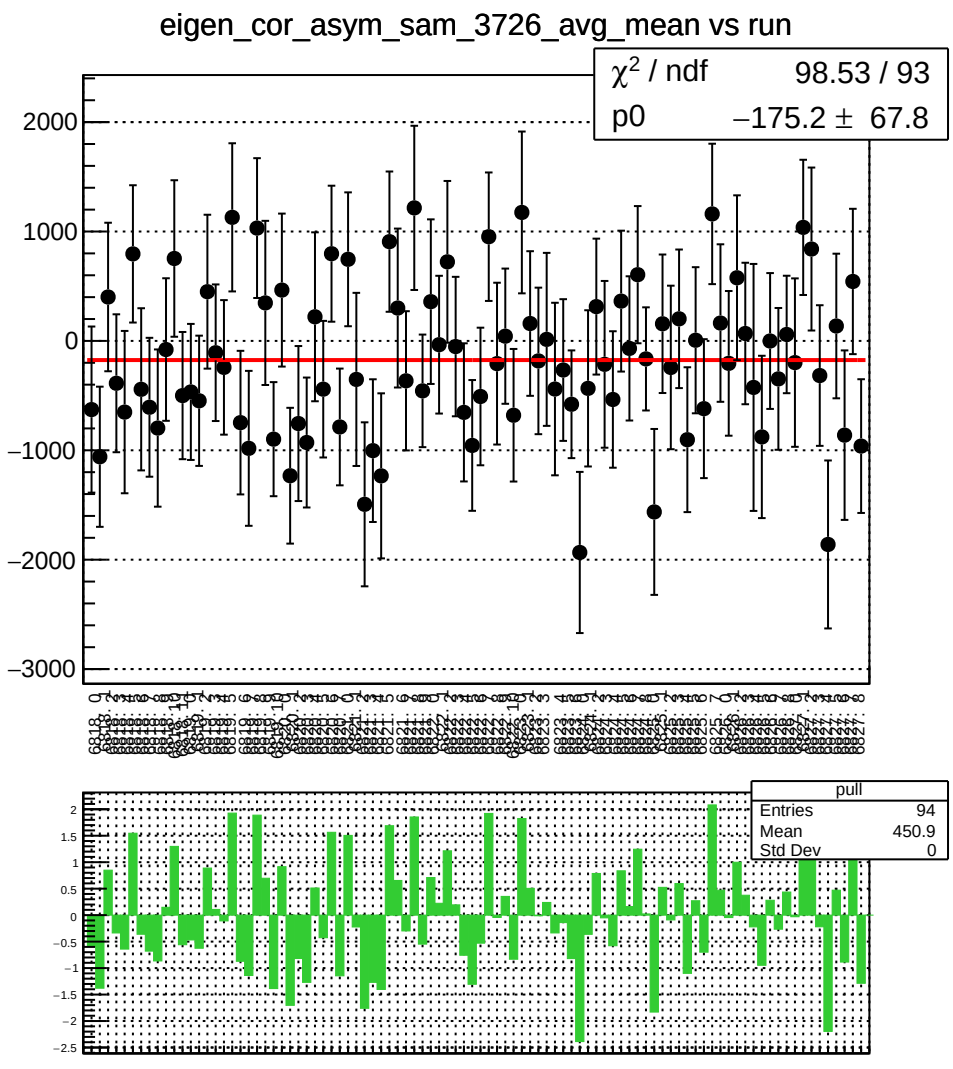

pull1D
Entries 94
Mean 0.003632
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

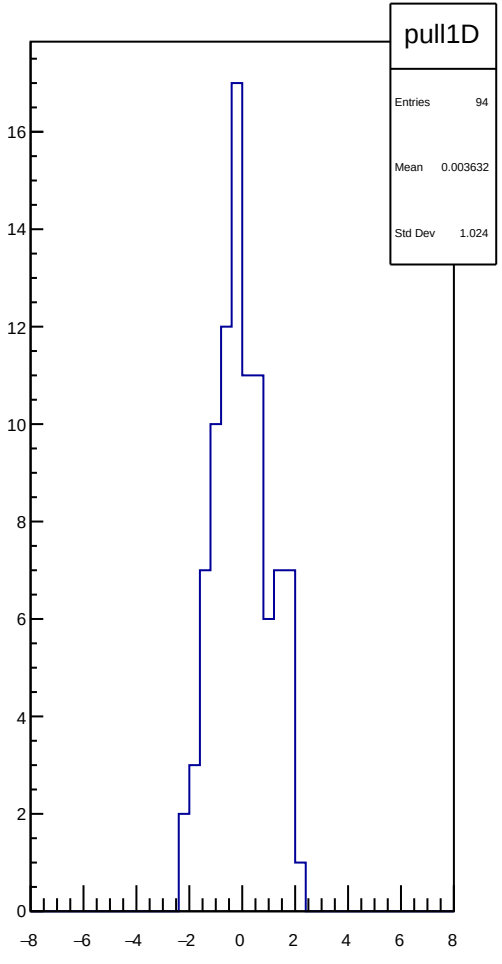

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.482e+04 / 93
p0 63.97 ± 0.04794
110
100
90
80
70
60

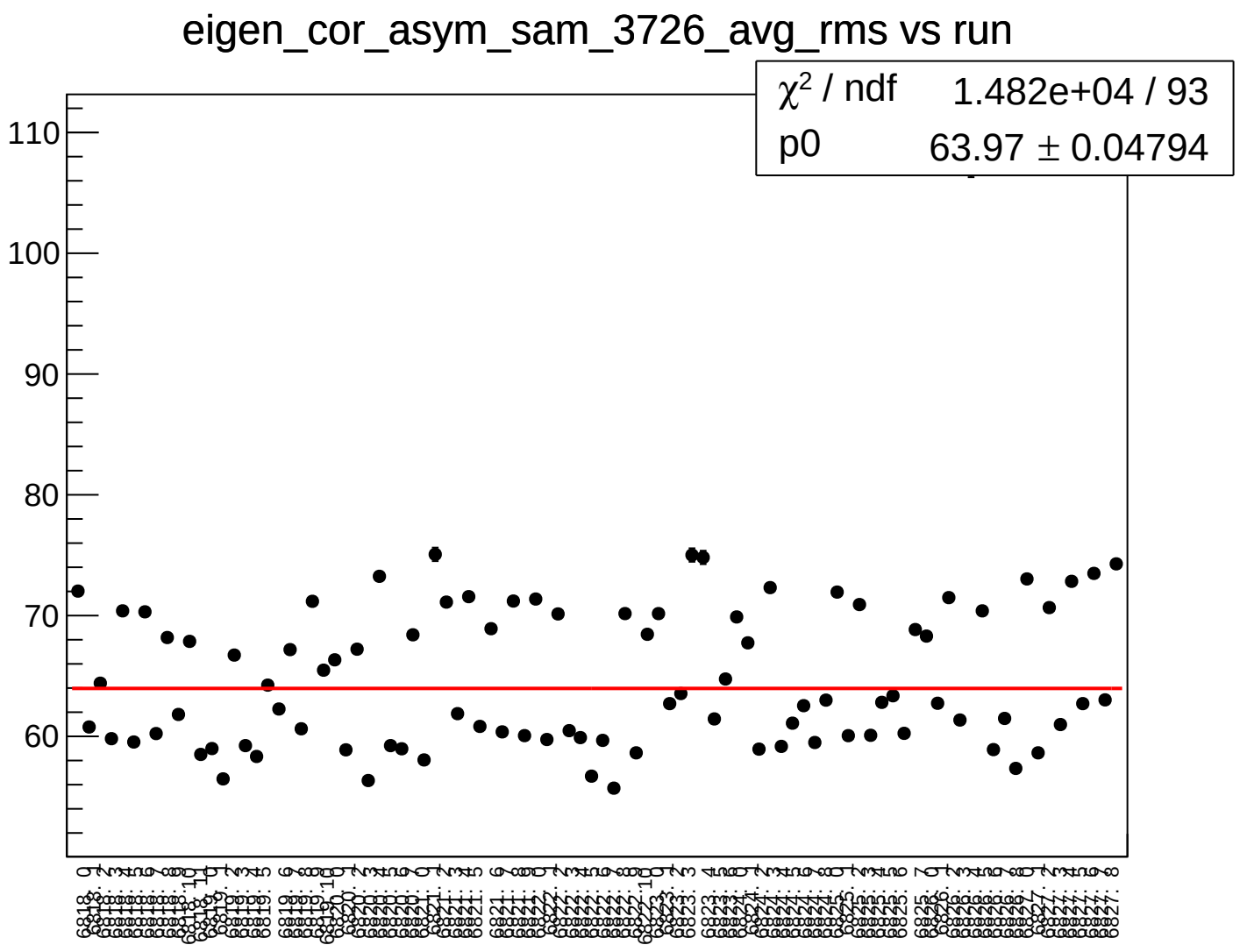

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 73.82 / 93
p0 −1107 ± 738
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −197.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

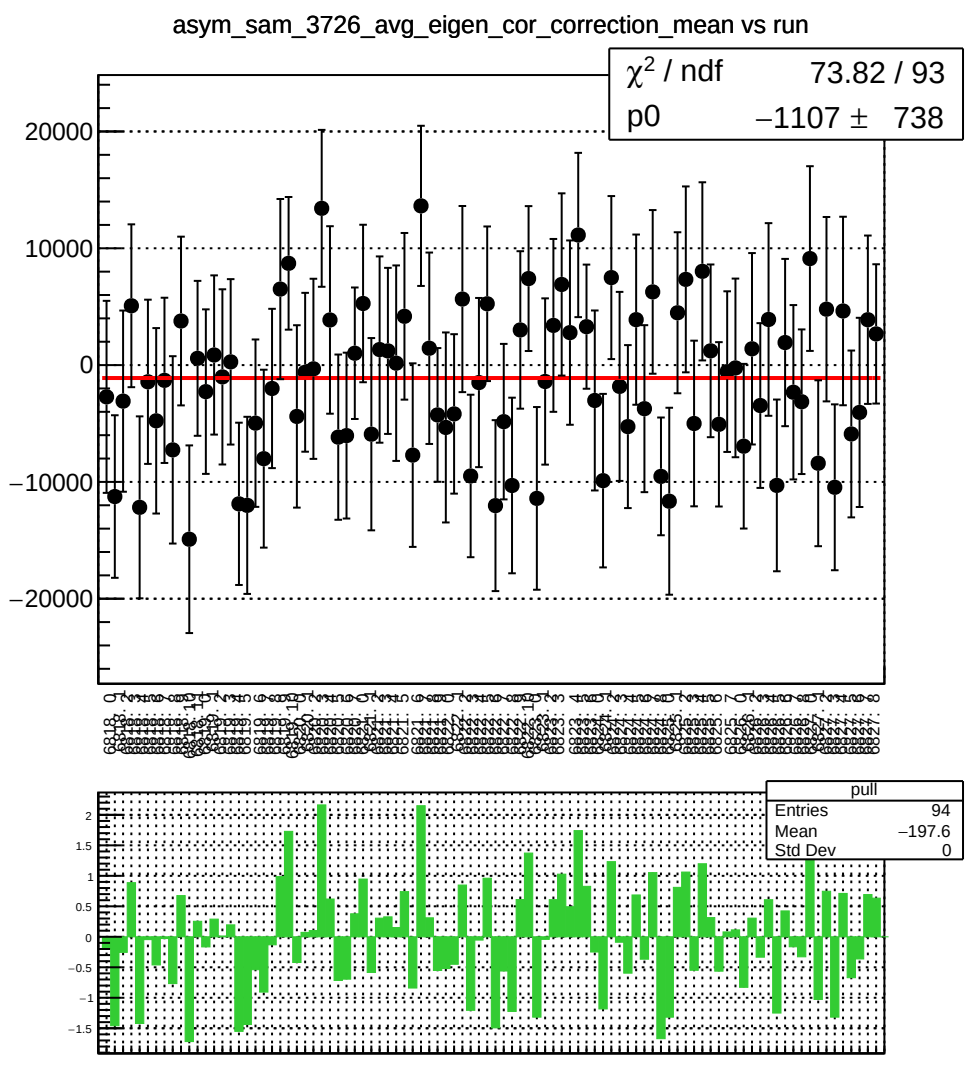

pull1D
Entries 94
Mean −0.009285
Std Dev 0.8861
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

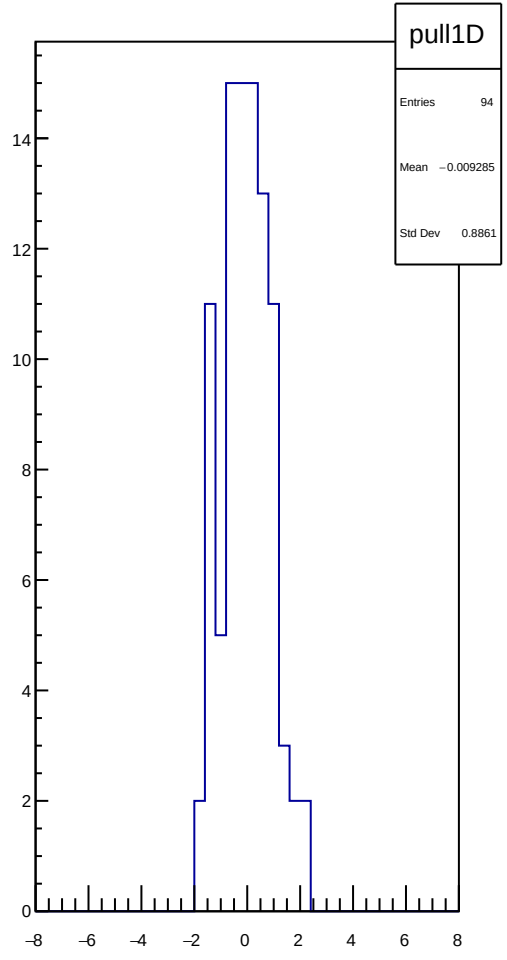

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 6405 / 93
p0 697.9 ± 0.5218
800
780
760
740
720
700
680
660
640
620

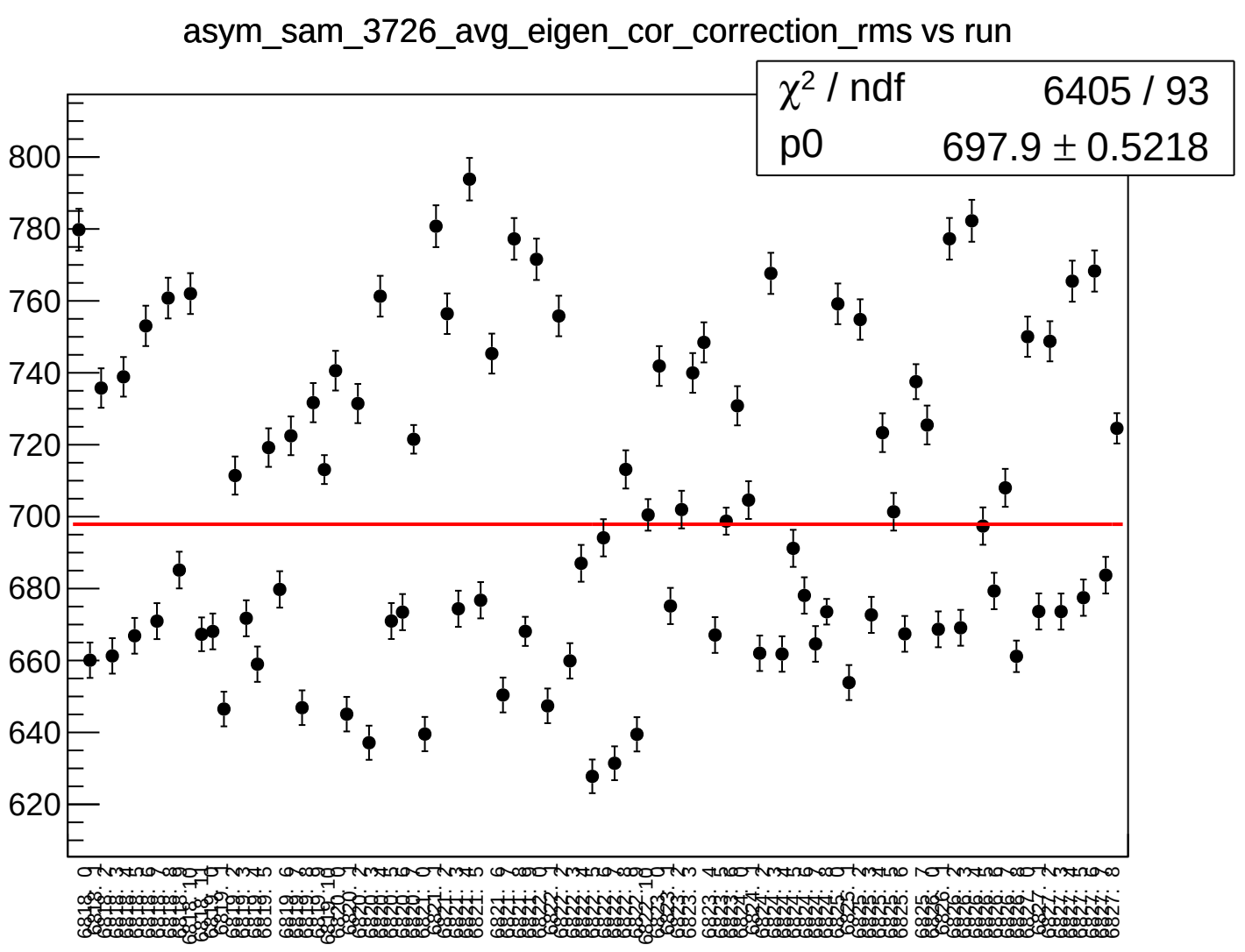

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 98.53 / 93
p0 −175.2 ± 67.8
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 450.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

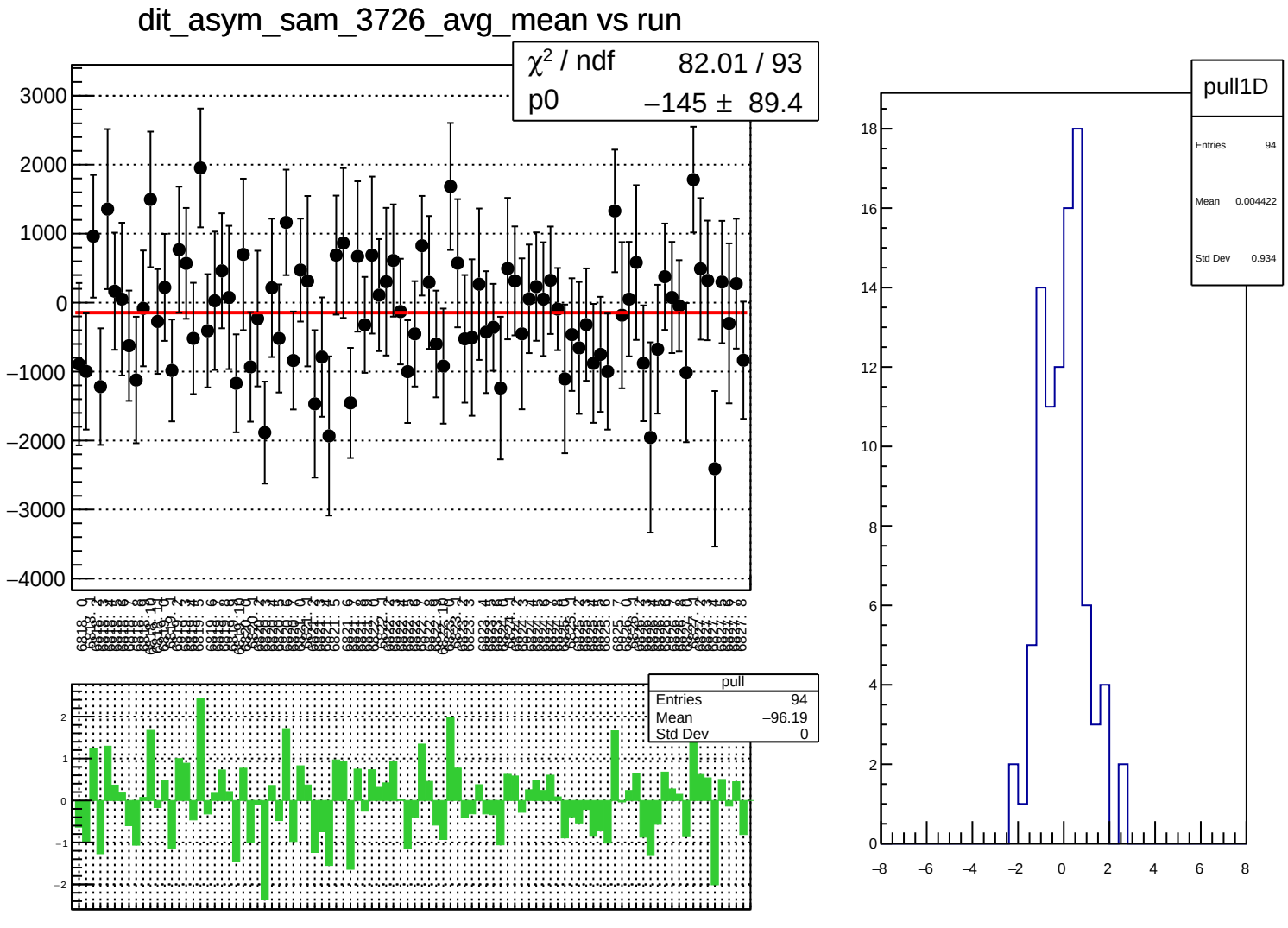

pull1D
Entries 94
Mean 0.003632
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

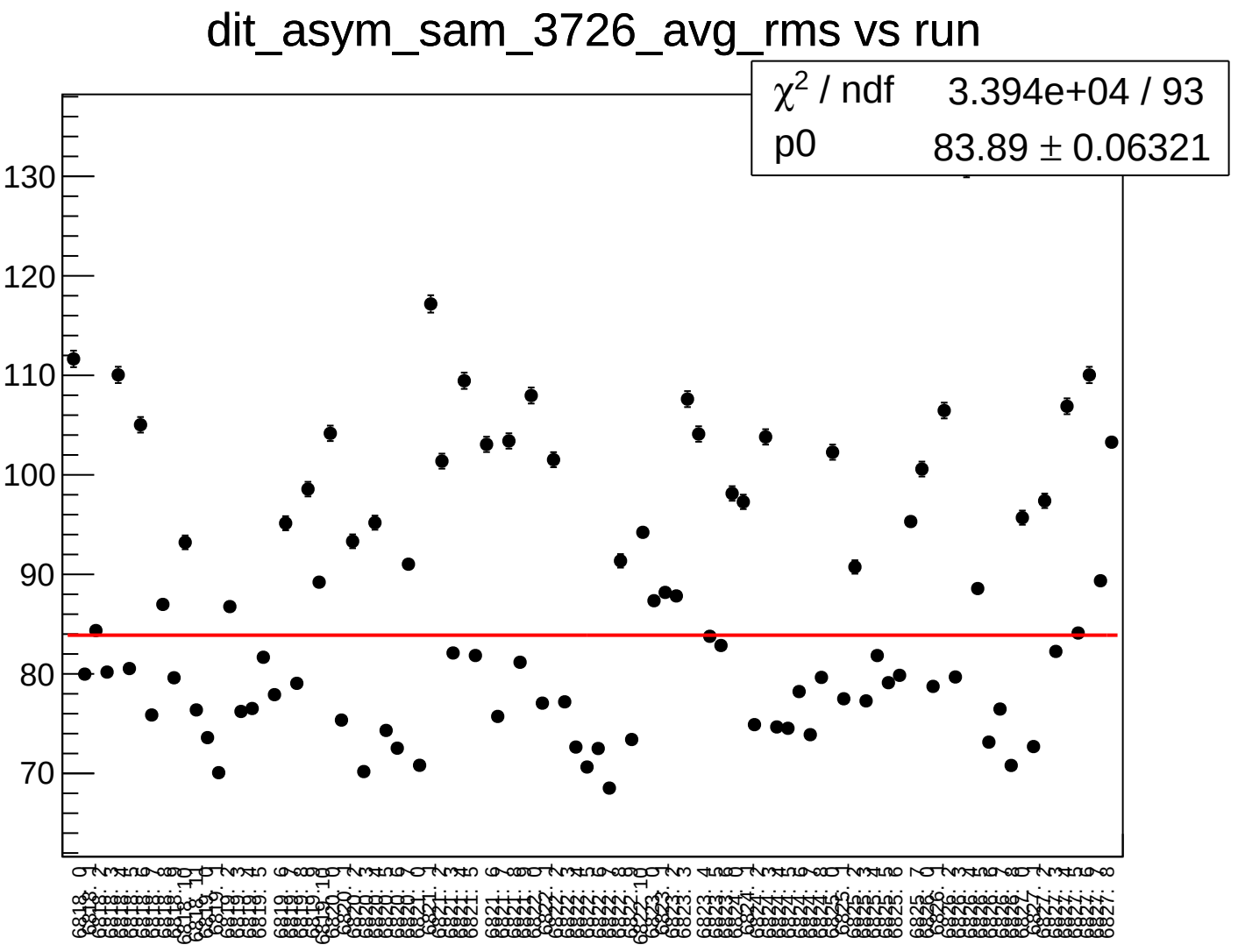

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.482e+04 / 93
p0 63.97 ± 0.04794
110
100
90
80
70
60

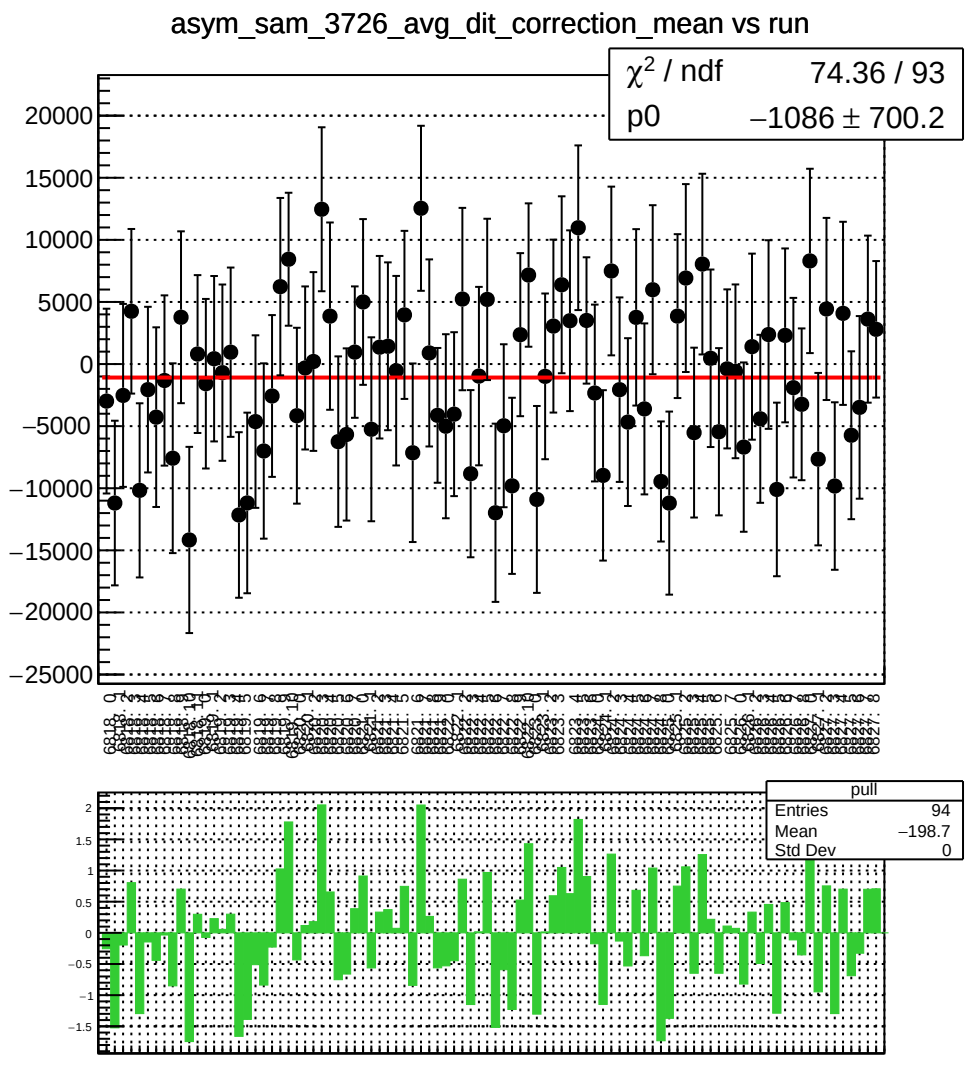

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.82 / 93
p0 −1107 ± 738
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −197.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

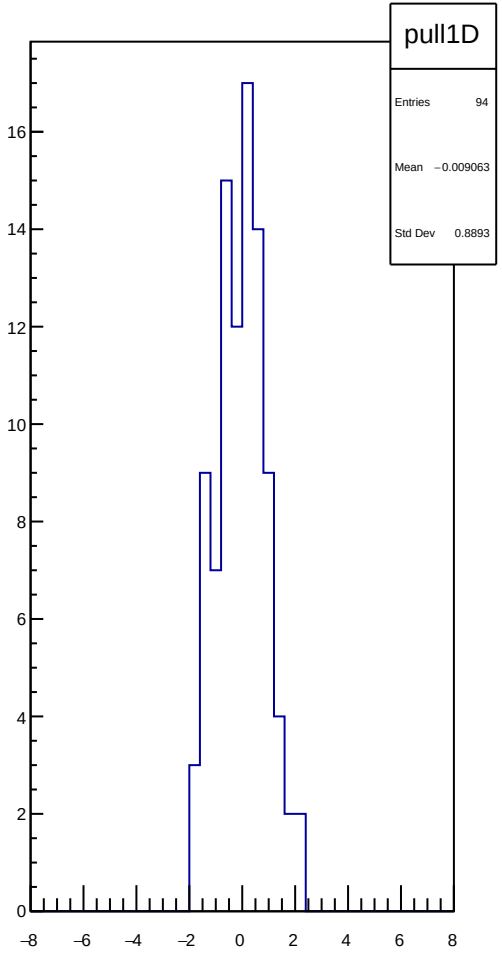

pull1D
Entries 94
Mean −0.009285
Std Dev 0.8861
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

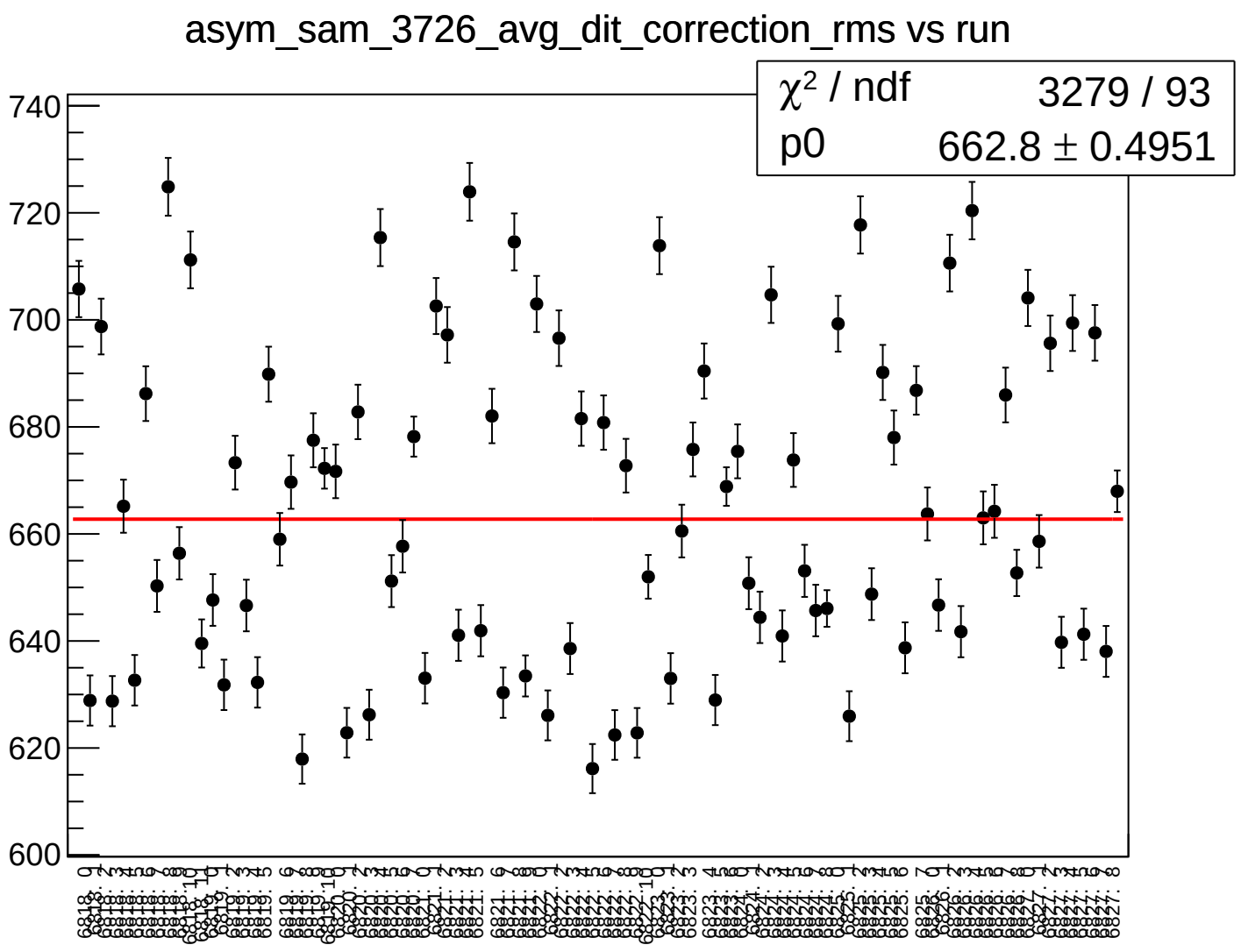

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 6405 / 93
p0 697.9 ± 0.5218
800
780
760
740
720
700
680
660
640
620

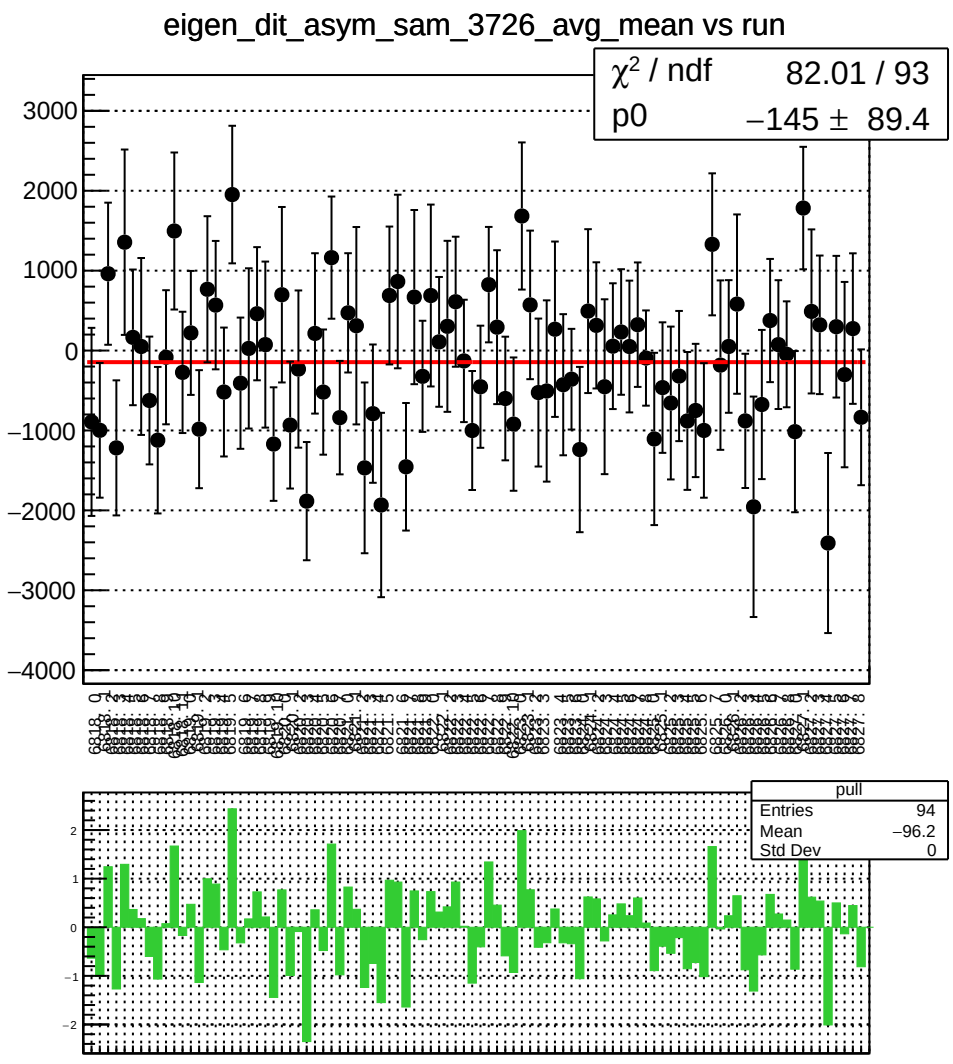

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.01 / 93
p0 −145 ± 89.4
pull
Entries 94
Mean −96.19
Std Dev 0
pull1D
Entries 94
Mean 0.004422
Std Dev 0.934

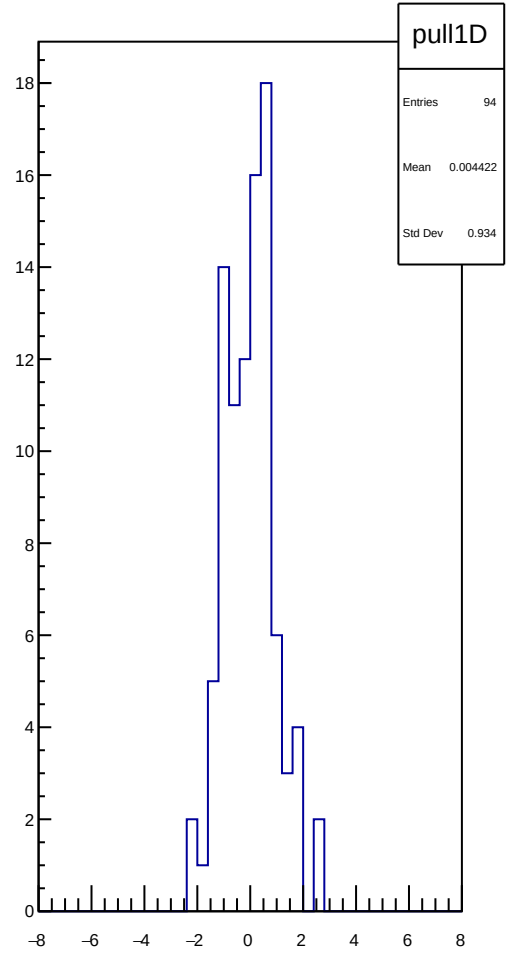

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.394e+04 / 93
p0 83.89 ± 0.06321
130
120
110
100
90
80
70

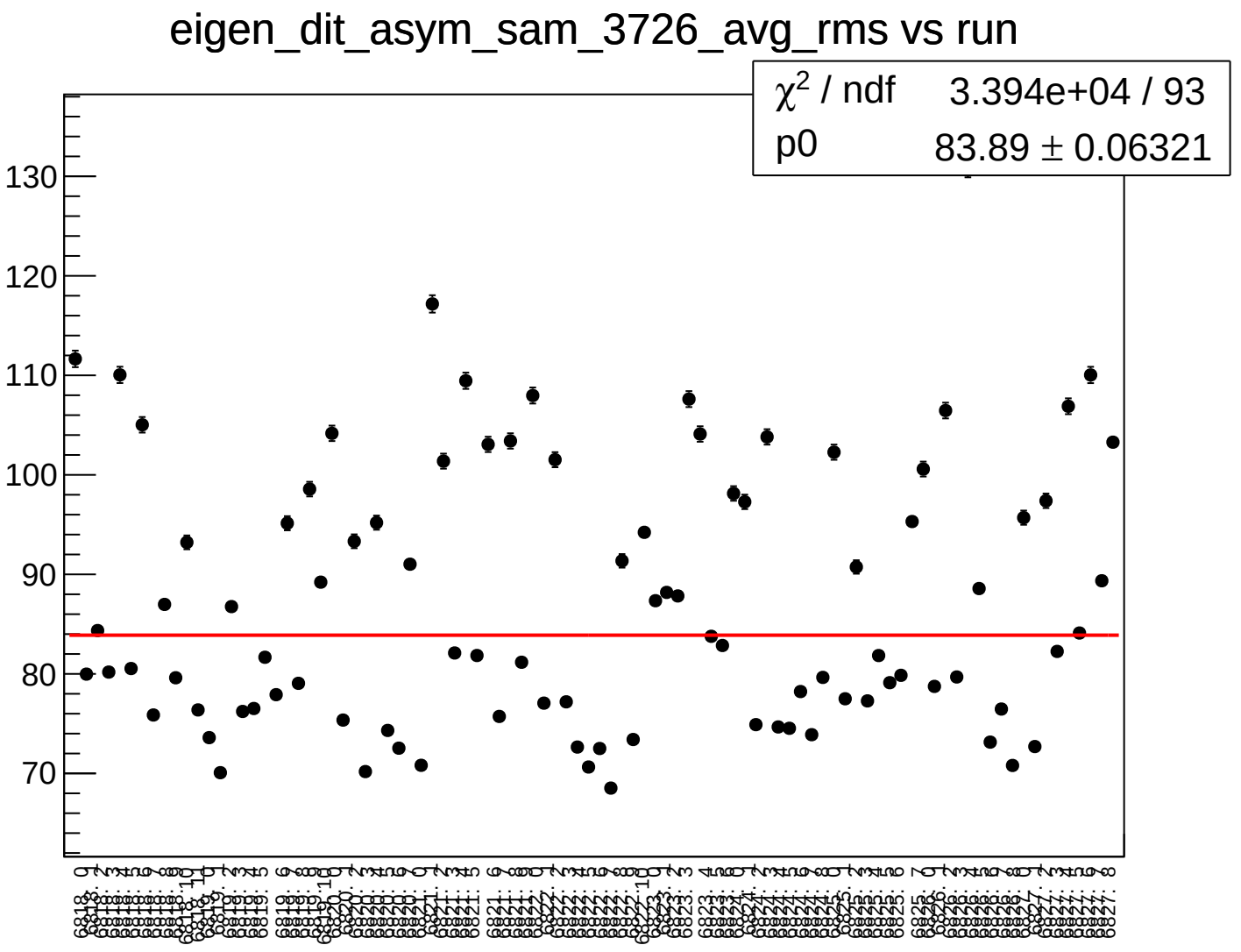

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 74.36 / 93
p0 −1086 ± 700.2
pull
Entries 94
Mean −198.7
Std Dev 0

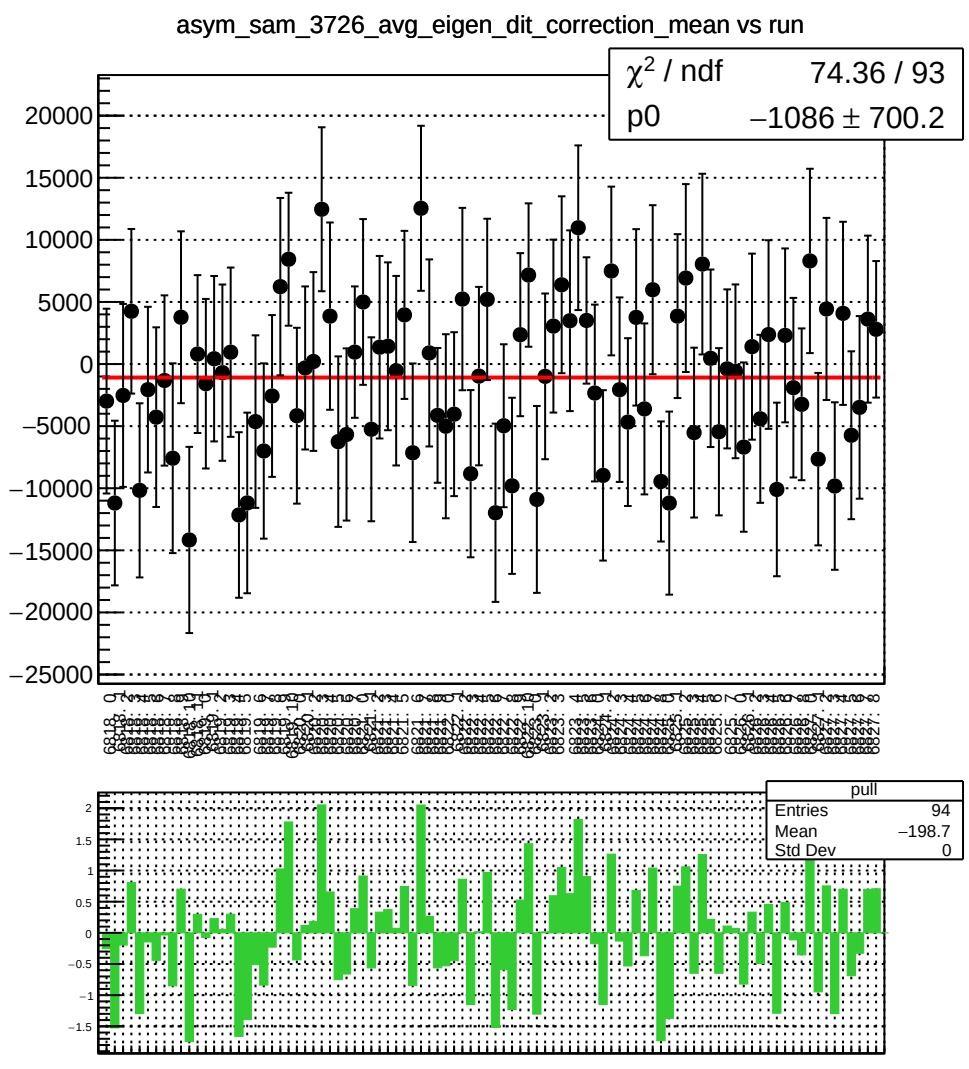

pull1D
Entries 94
Mean −0.009063
Std Dev 0.8893

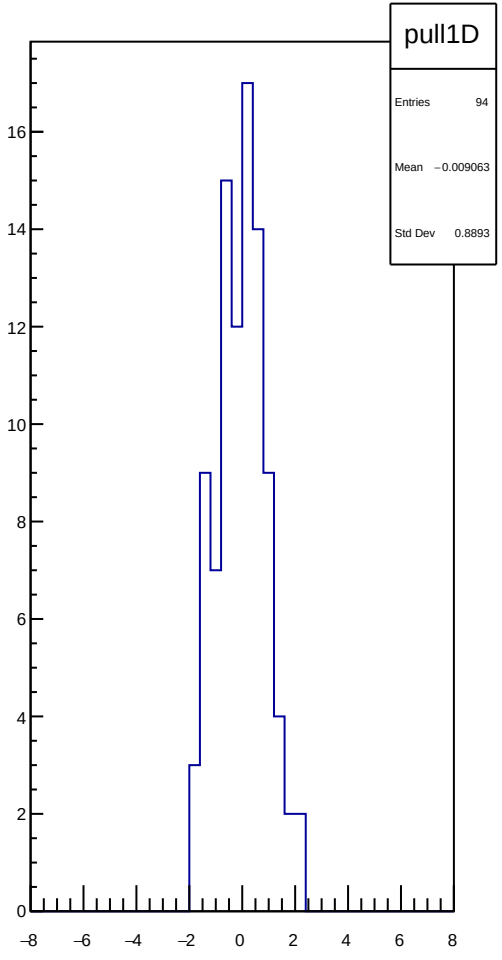

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3279 / 93
p0 662.8 ± 0.4951
740
720
700
680
660
640
620
600

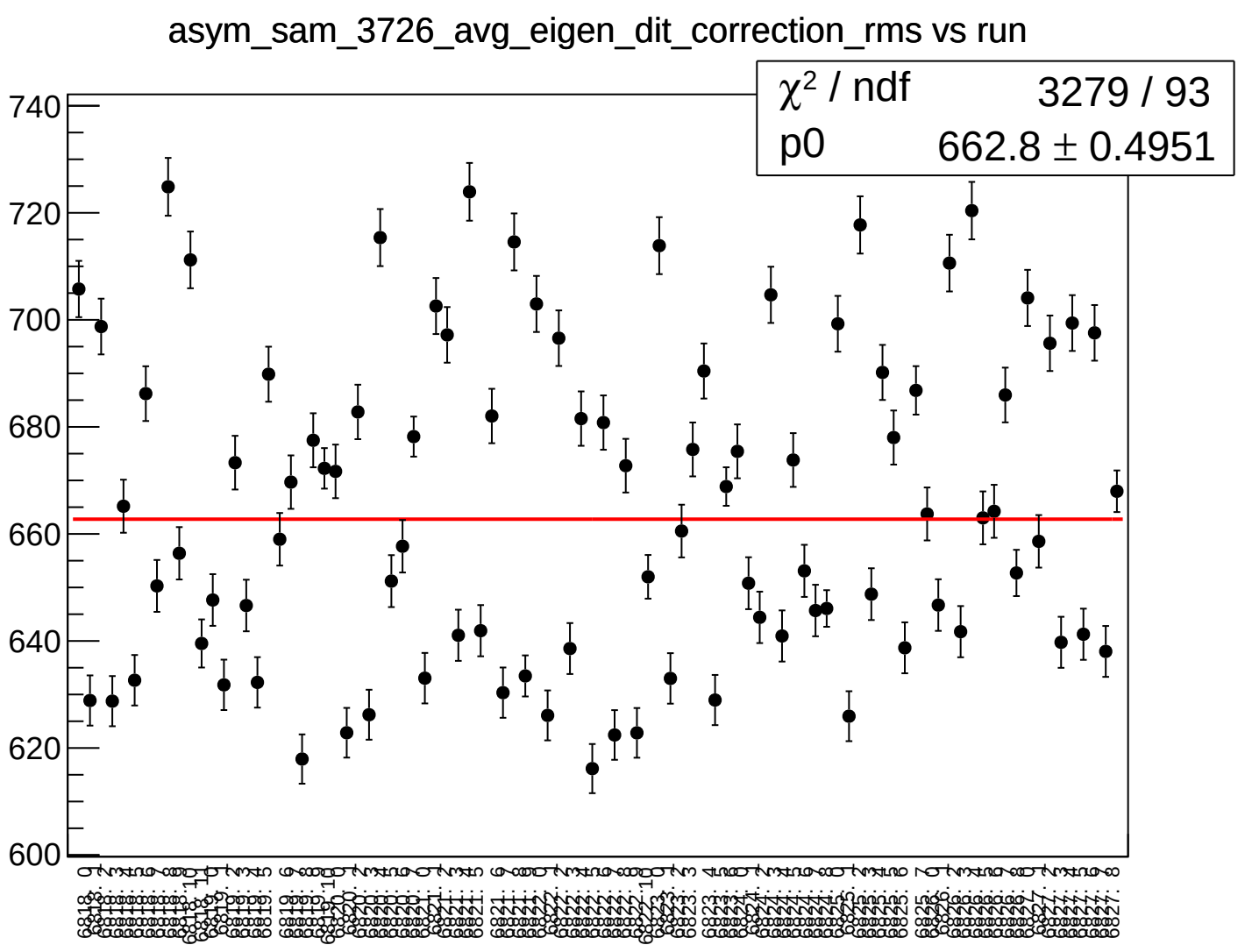

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 82.01 / 93
p0 −145 ± 89.4
pull
Entries 94
Mean −96.2
Std Dev 0

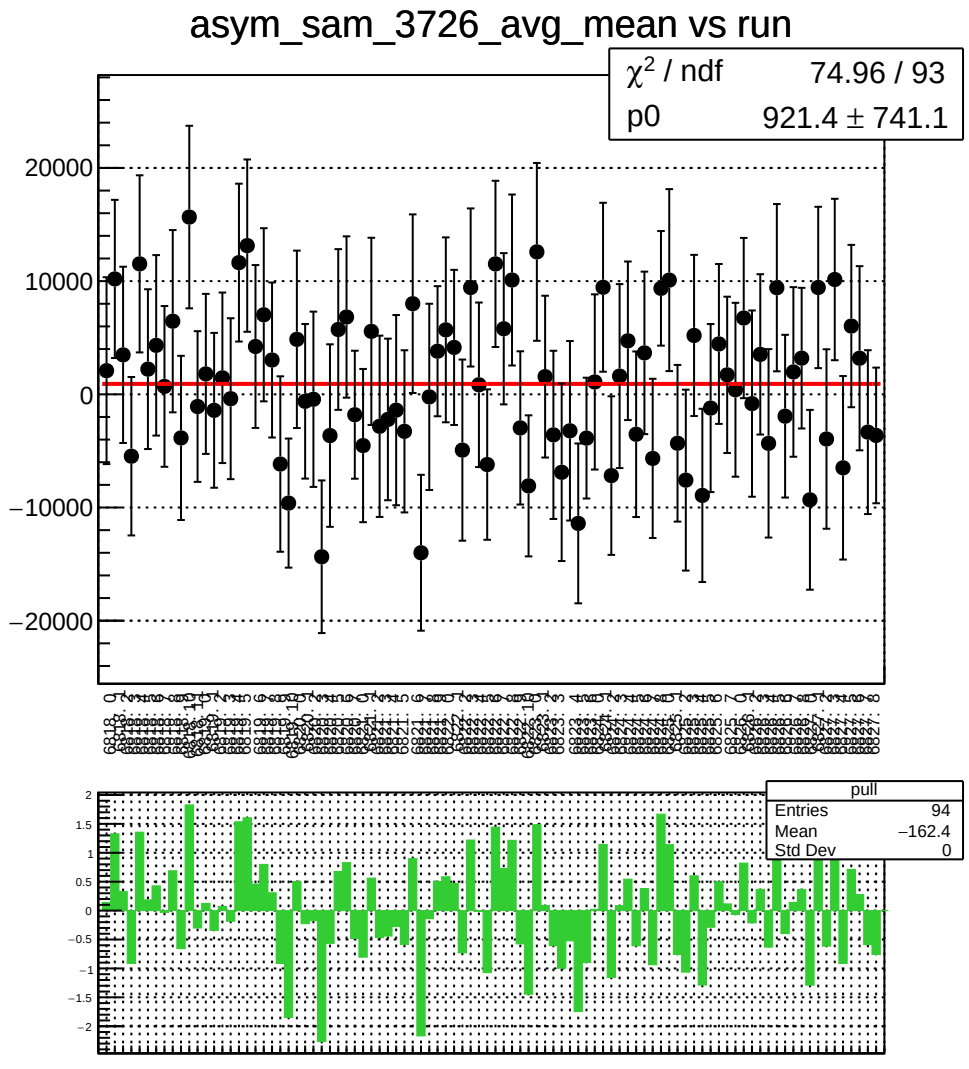

pull1D
Entries 94
Mean 0.004422
Std Dev 0.934

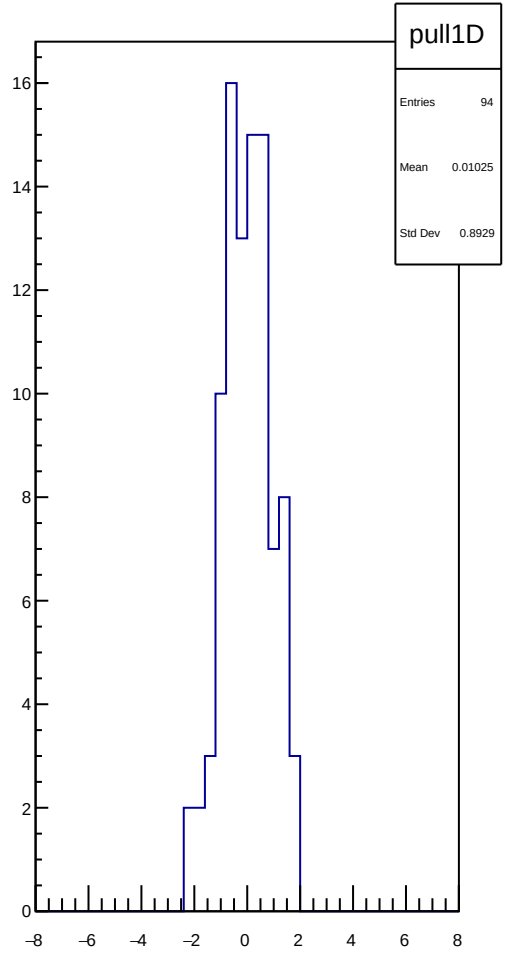

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.394e+04 / 93
p0 83.89 ± 0.06321
130
120
110
100
90
80
70

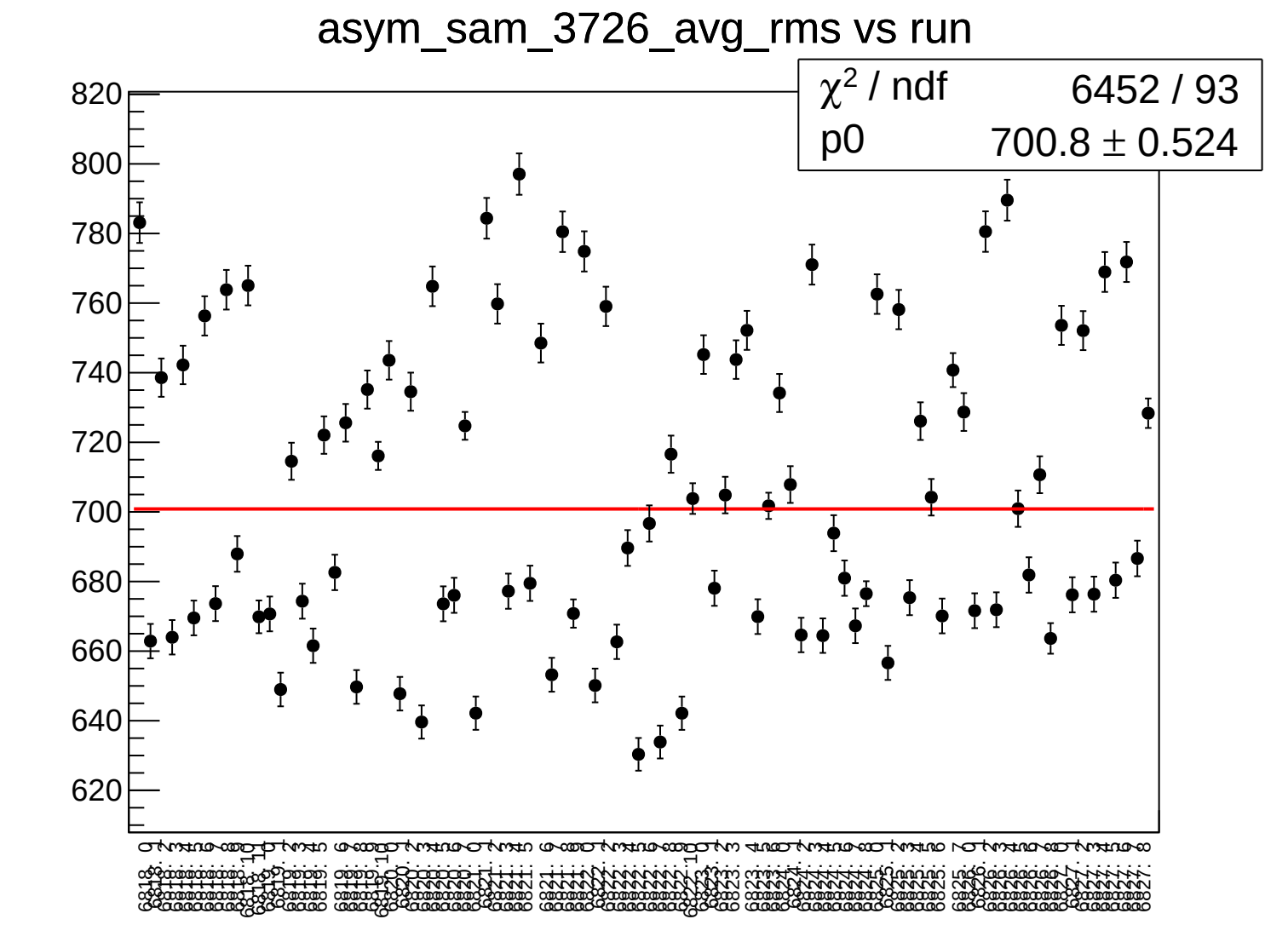

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.36 / 93
p0 −1086 ± 700.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 94
Mean −198.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

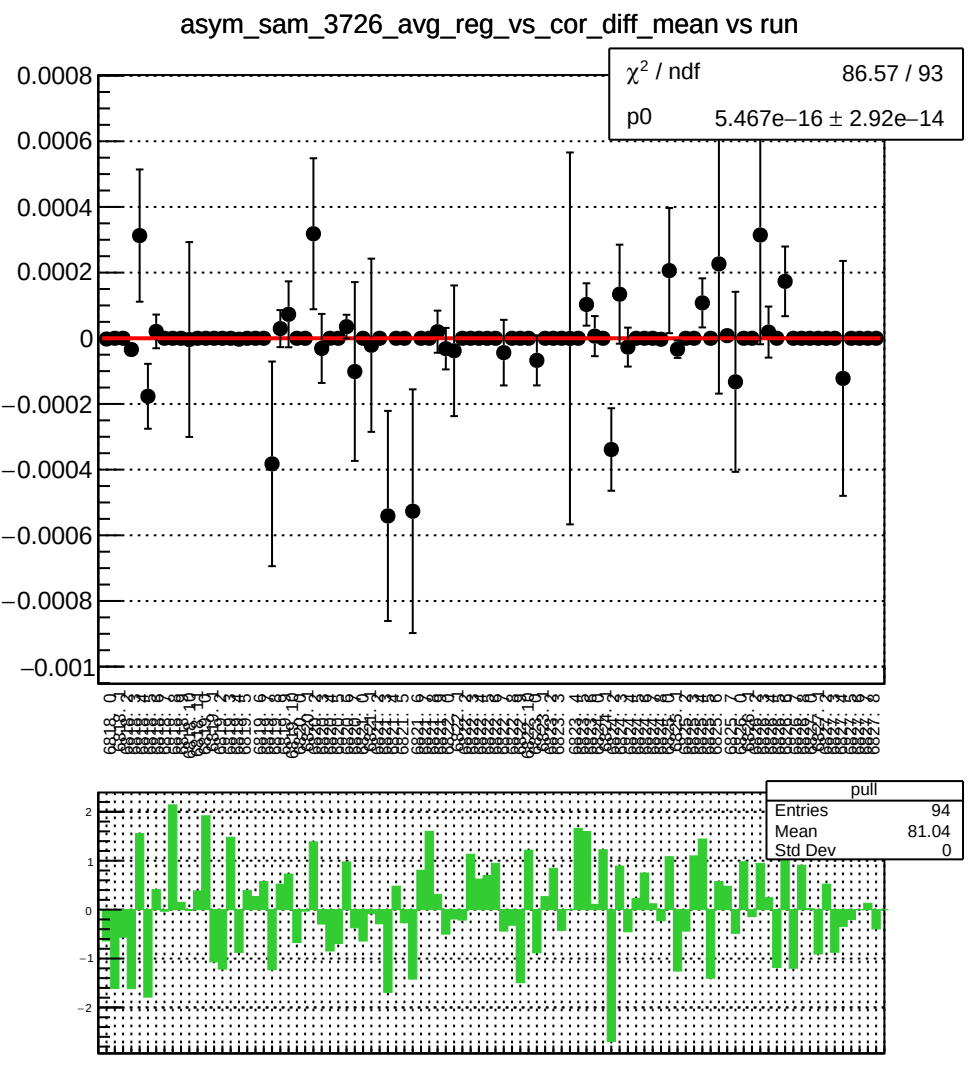

pull1D
Entries 94
Mean −0.009063
Std Dev 0.8893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

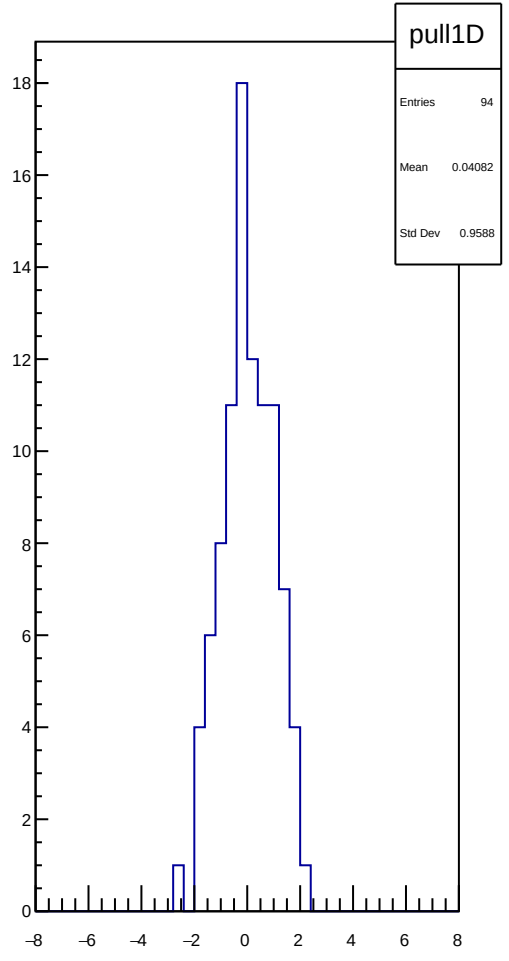

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3279 / 93
p0 662.8 ± 0.4951
740
720
700
680
660
640
620
600

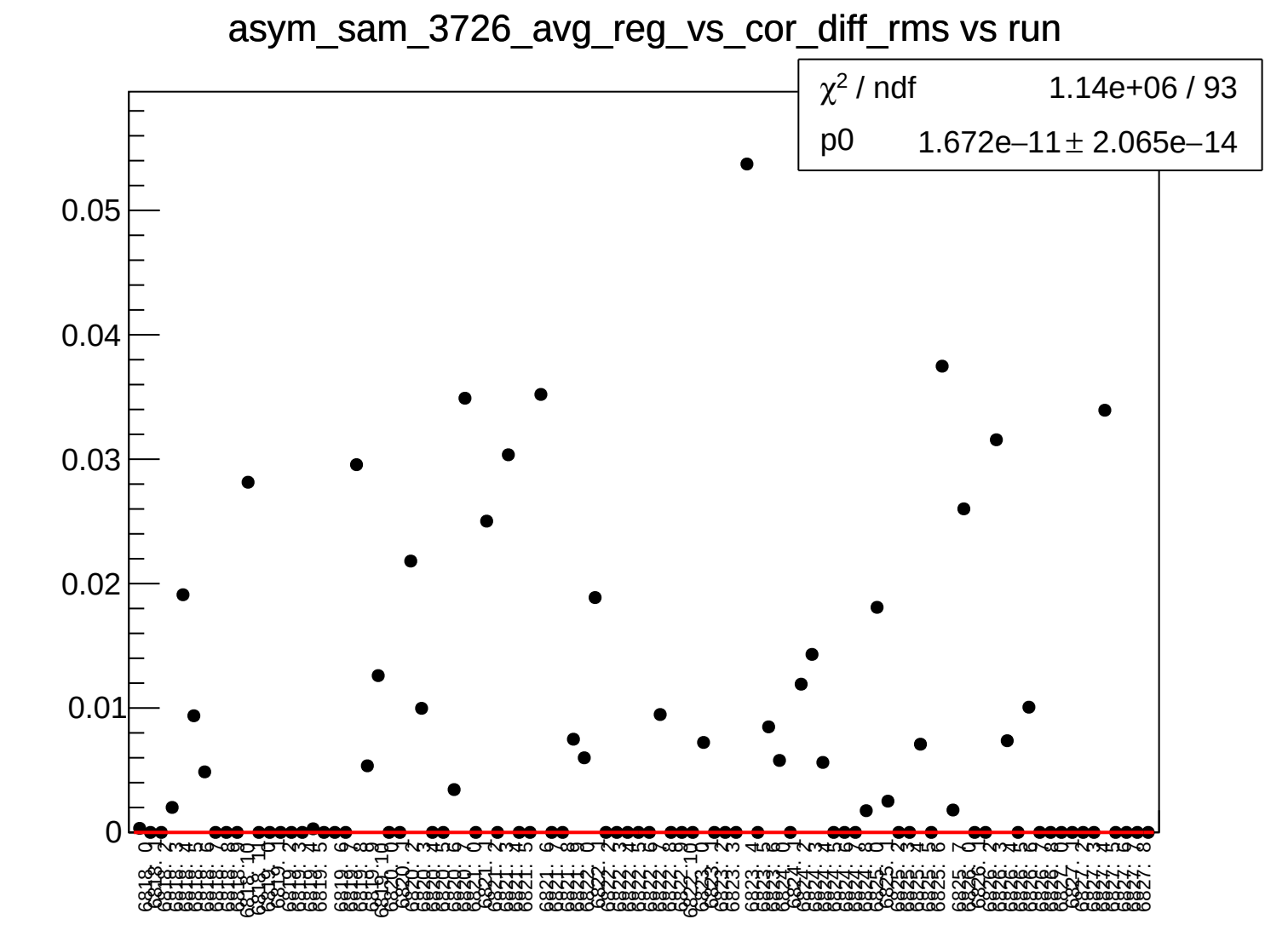

asym_sam_3726_avg_mean vs run
χ^2 / ndf 74.96 / 93
p0 921.4 ± 741.1
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −162.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

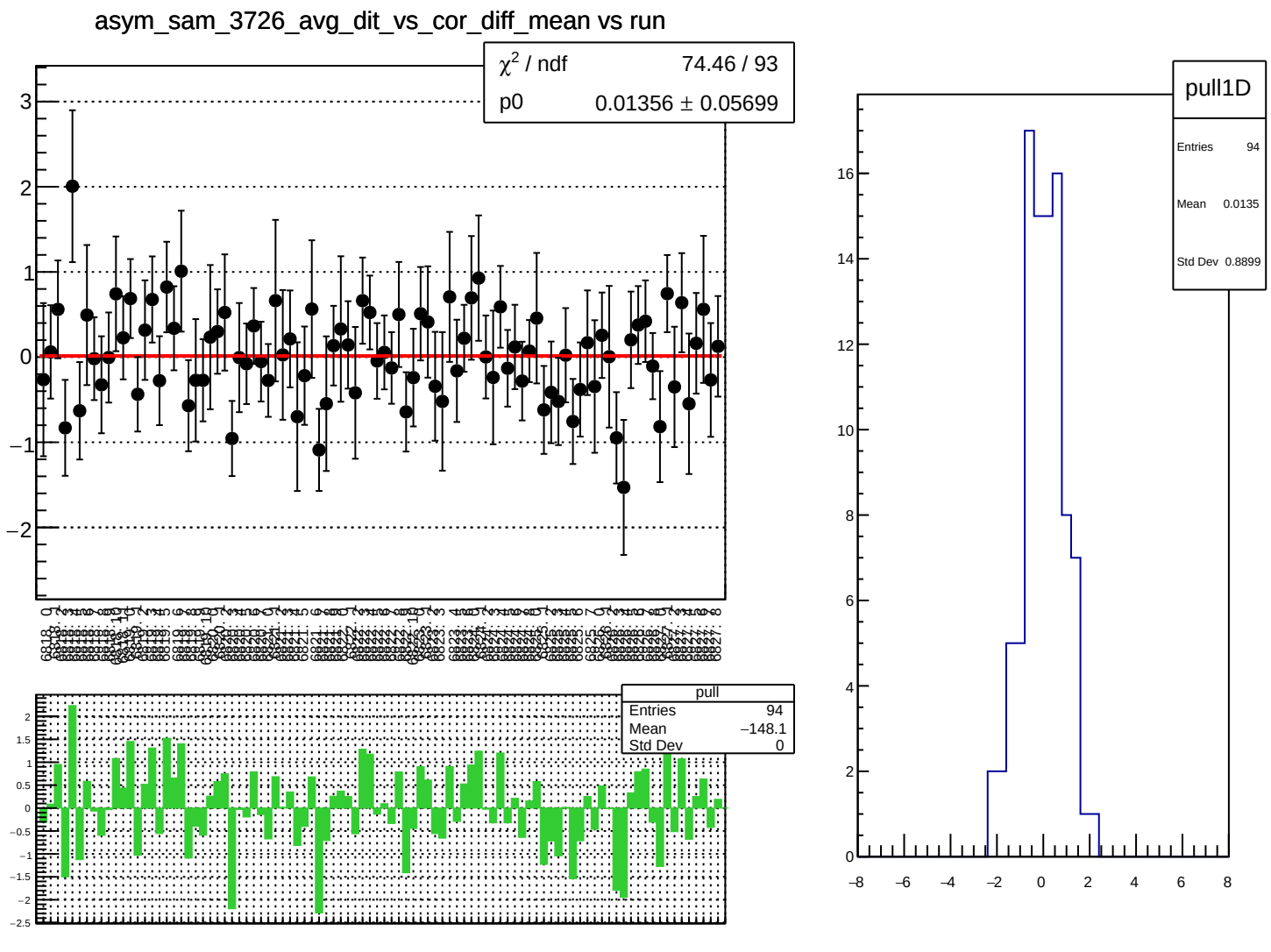

pull1D
Entries 94
Mean 0.01025
Std Dev 0.8929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

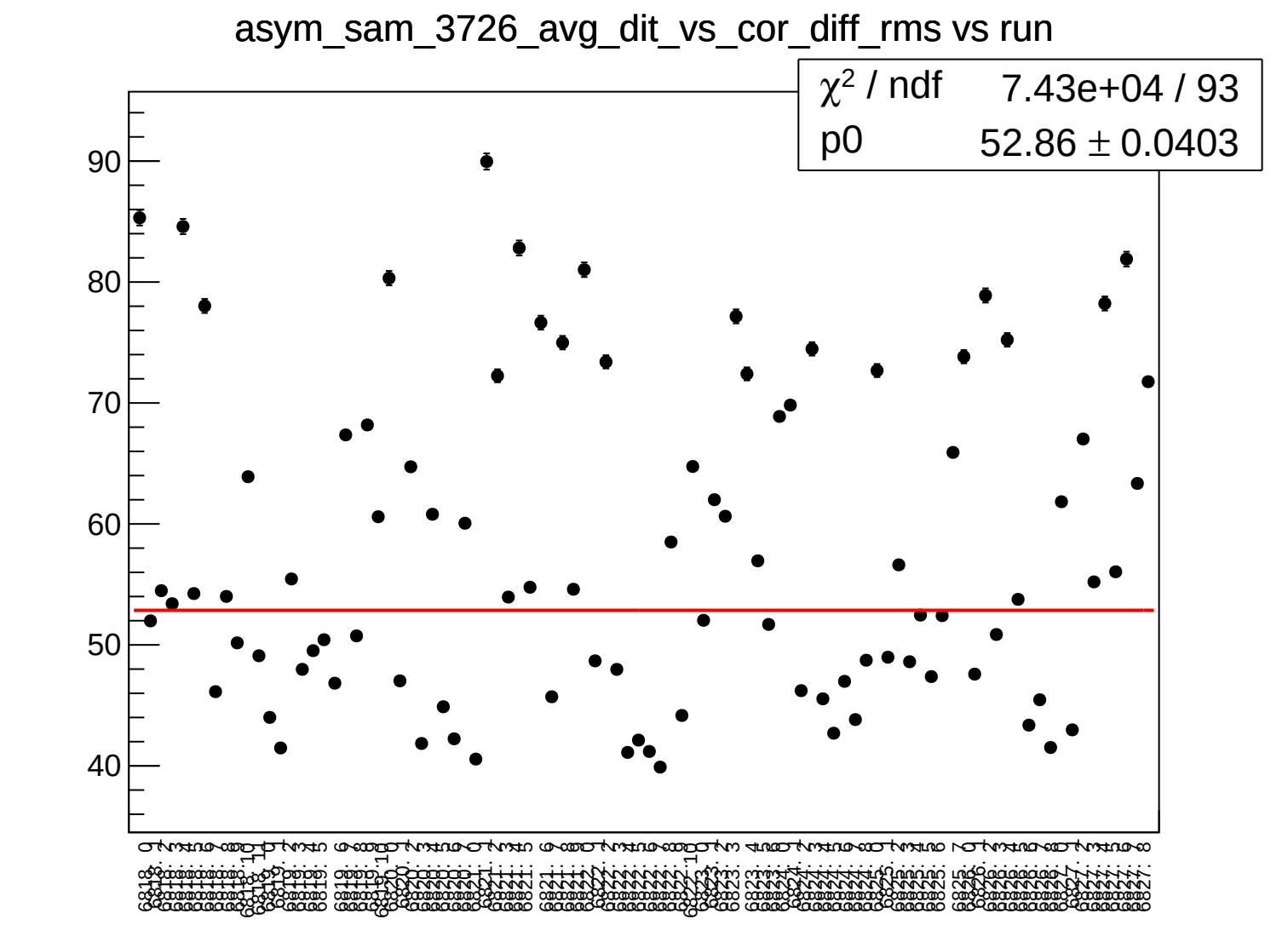

asym_sam_3726_avg_rms vs run
χ^2 / ndf 6452 / 93
p0 700.8 ± 0.524
820
800
780
760
740
720
700
680
660
640
620

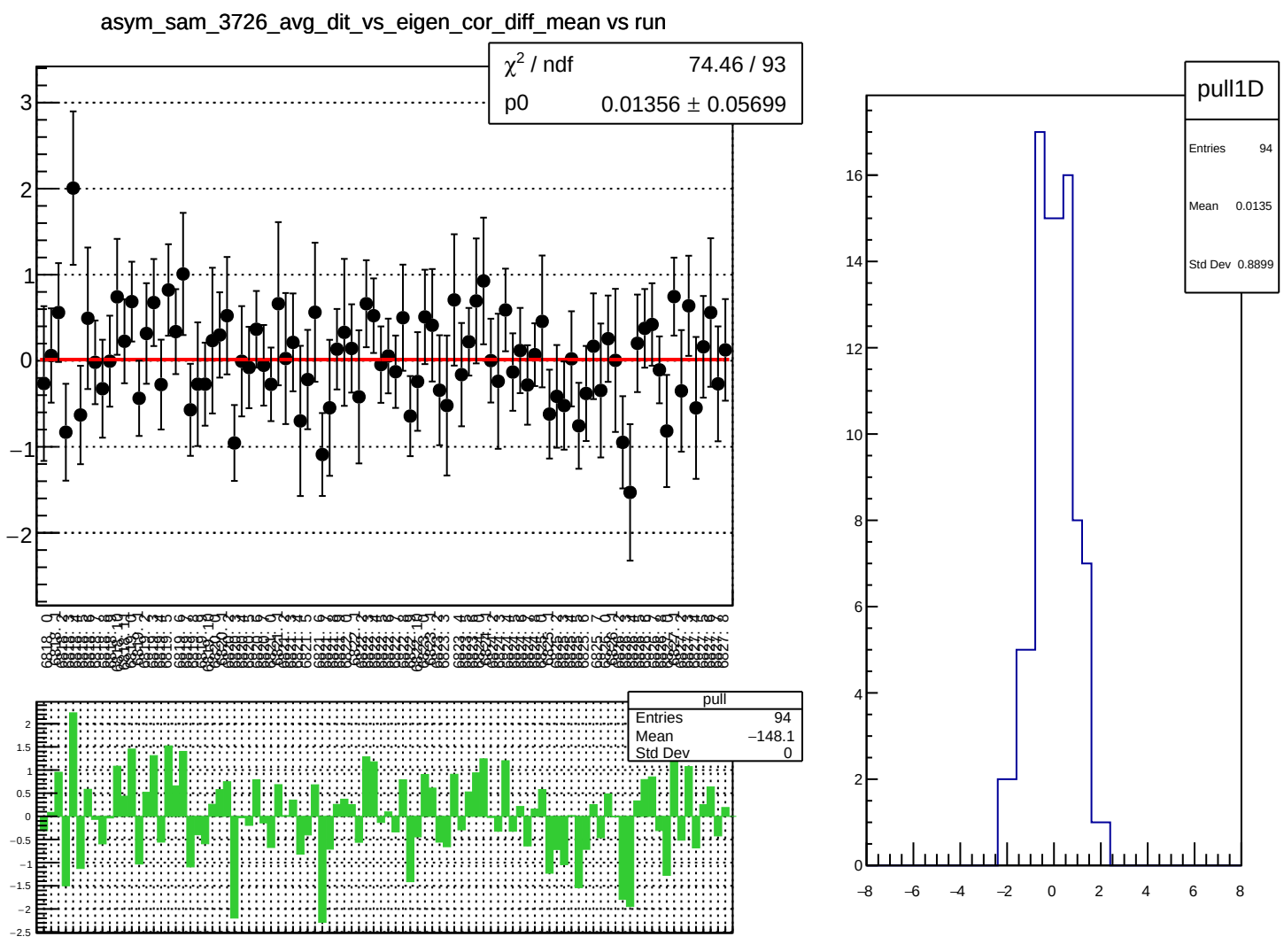

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.57 / 93
p0 5.467e−16 ± 2.92e−14
pull
Entries 94
Mean 81.04
Std Dev 0

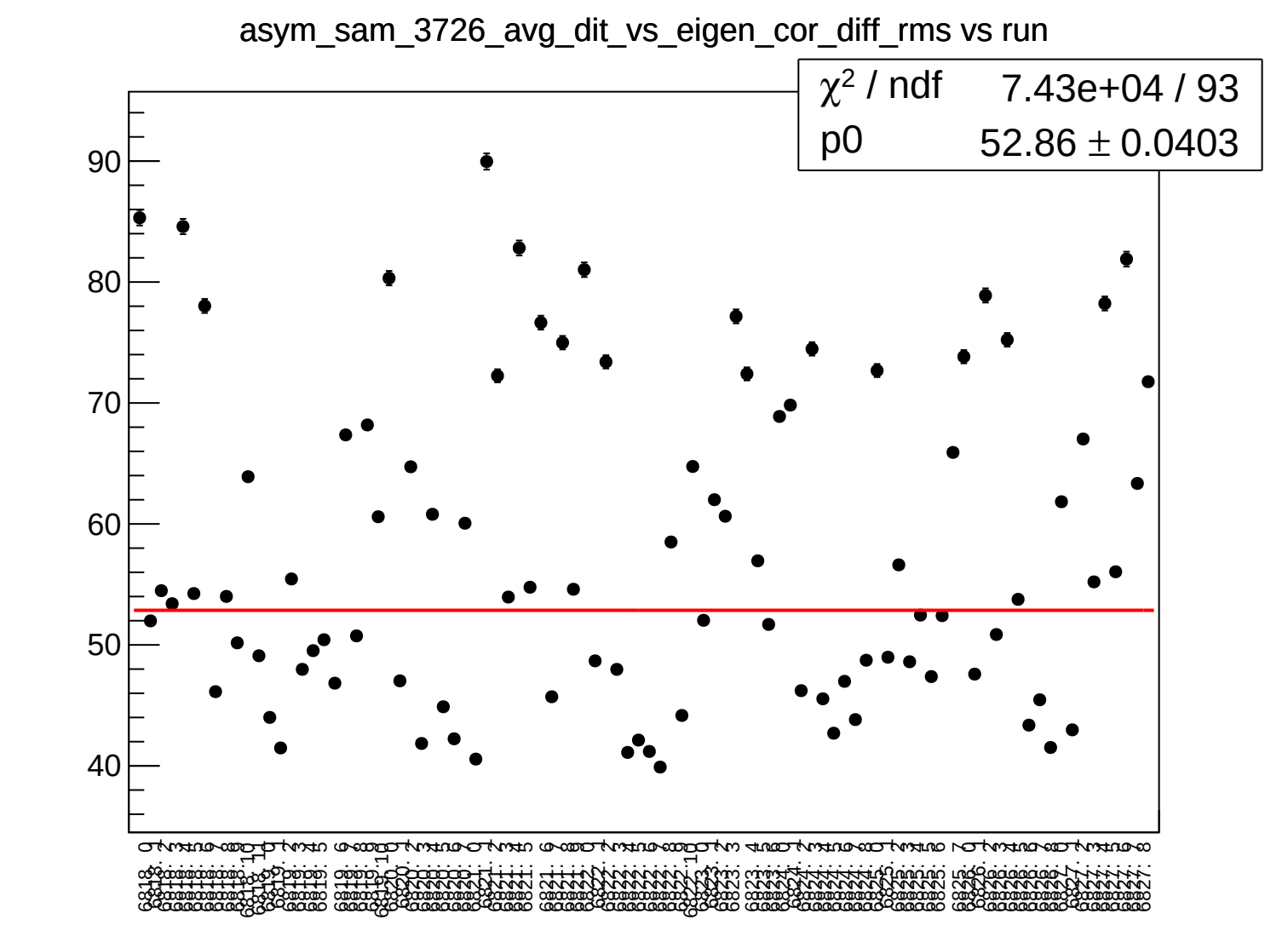

pull1D
Entries 94
Mean 0.04082
Std Dev 0.9588

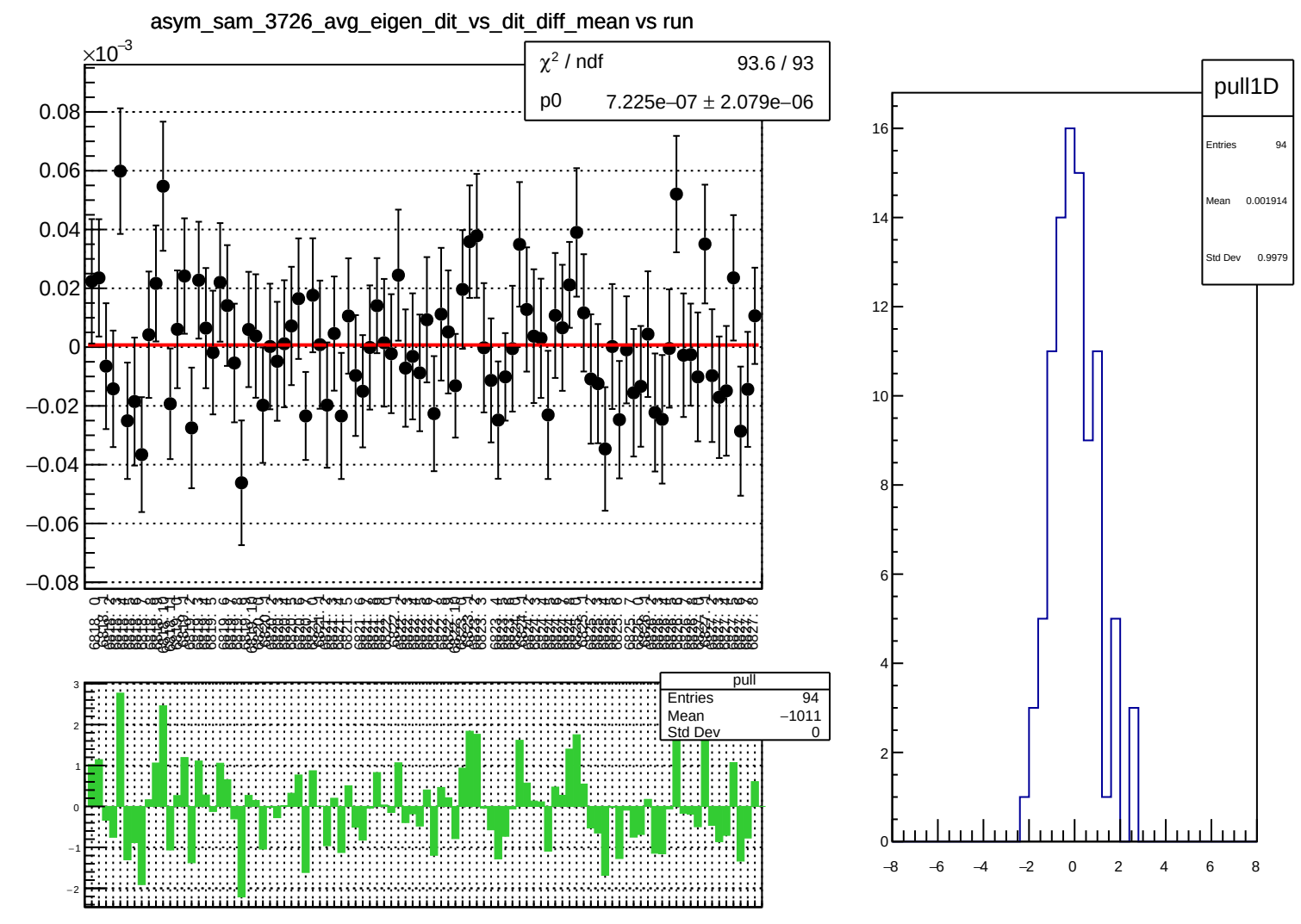

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 93
p0 1.672e−11 ± 2.065e−14
0.05
0.04
0.03
0.02
0.01
0

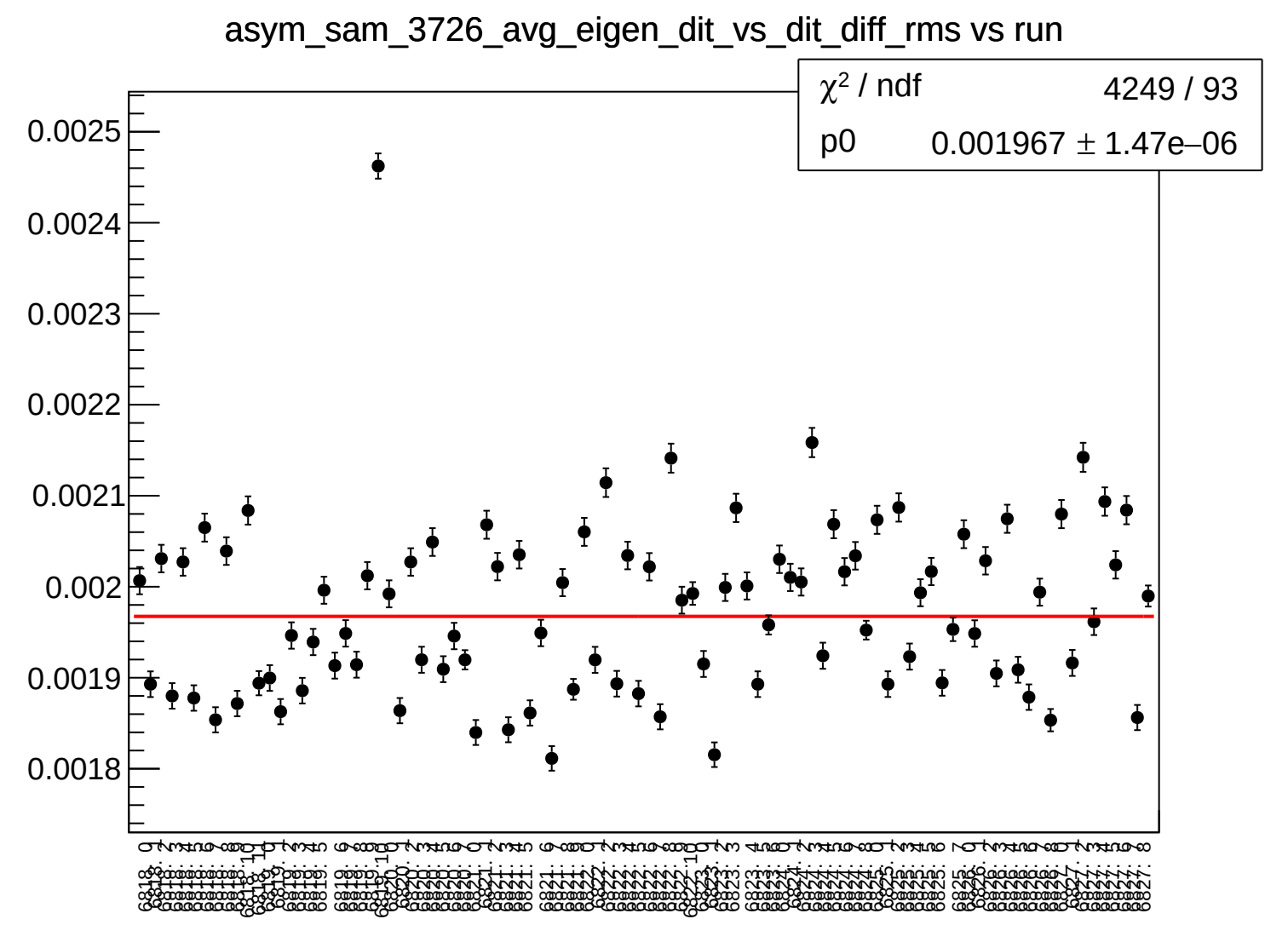

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.46 / 93
p0 0.01356 ± 0.05699
pull
Entries 94
Mean −148.1
Std Dev 0
pull1D
Entries 94
Mean 0.0135
Std Dev 0.8899

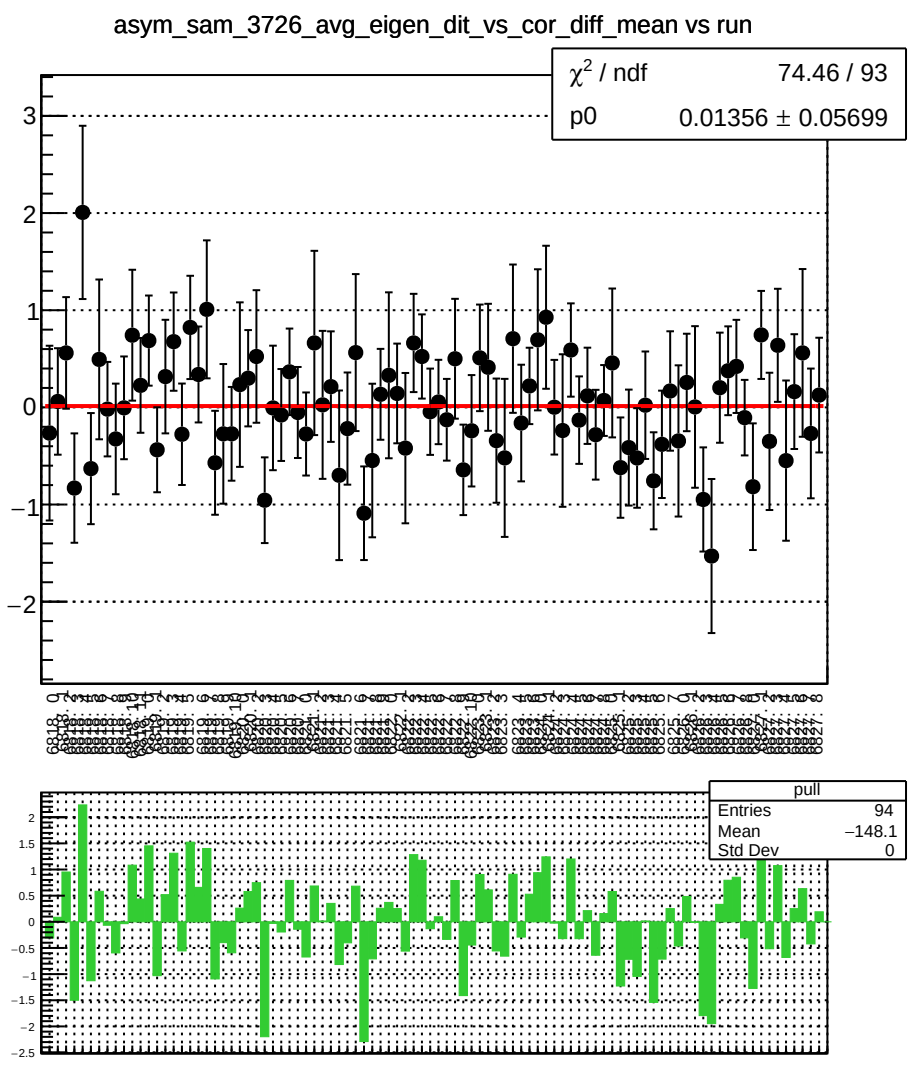

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 52.86 ± 0.0403
90
80
70
60
50
40

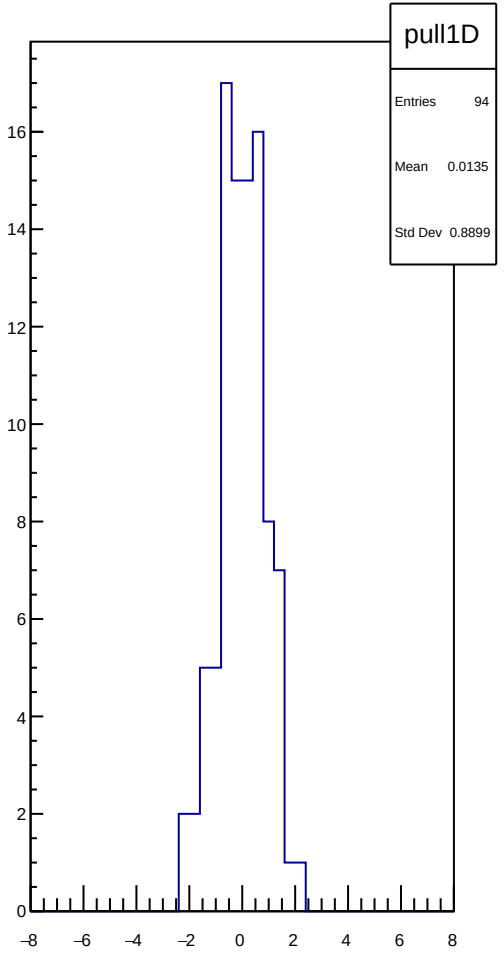

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.46 / 93
p0 0.01356 ± 0.05699
pull
Entries 94
Mean −148.1
Std Dev 0
pull1D
Entries 94
Mean 0.0135
Std Dev 0.8899

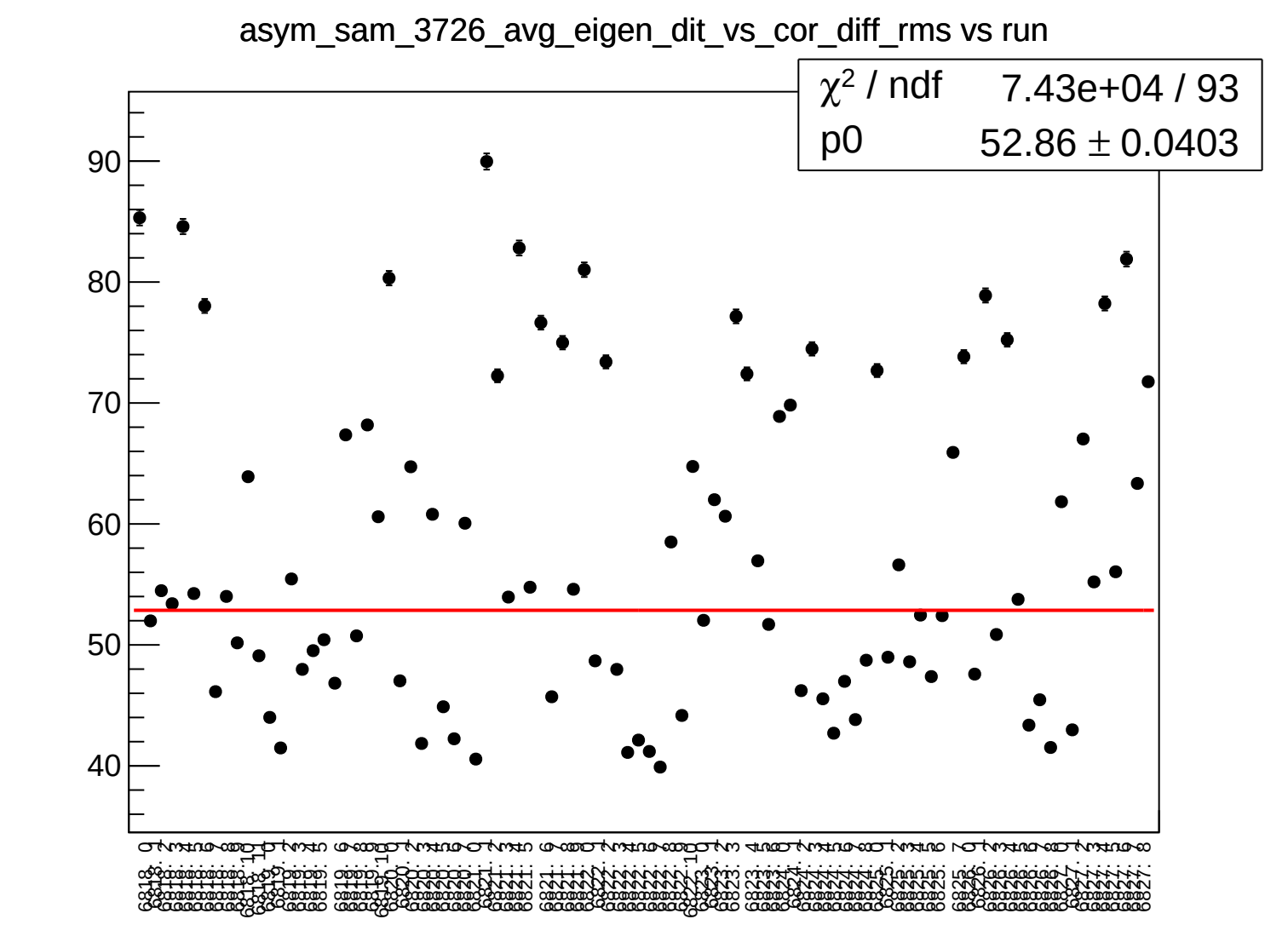

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 52.86 ± 0.0403
90
80
70
60
50
40

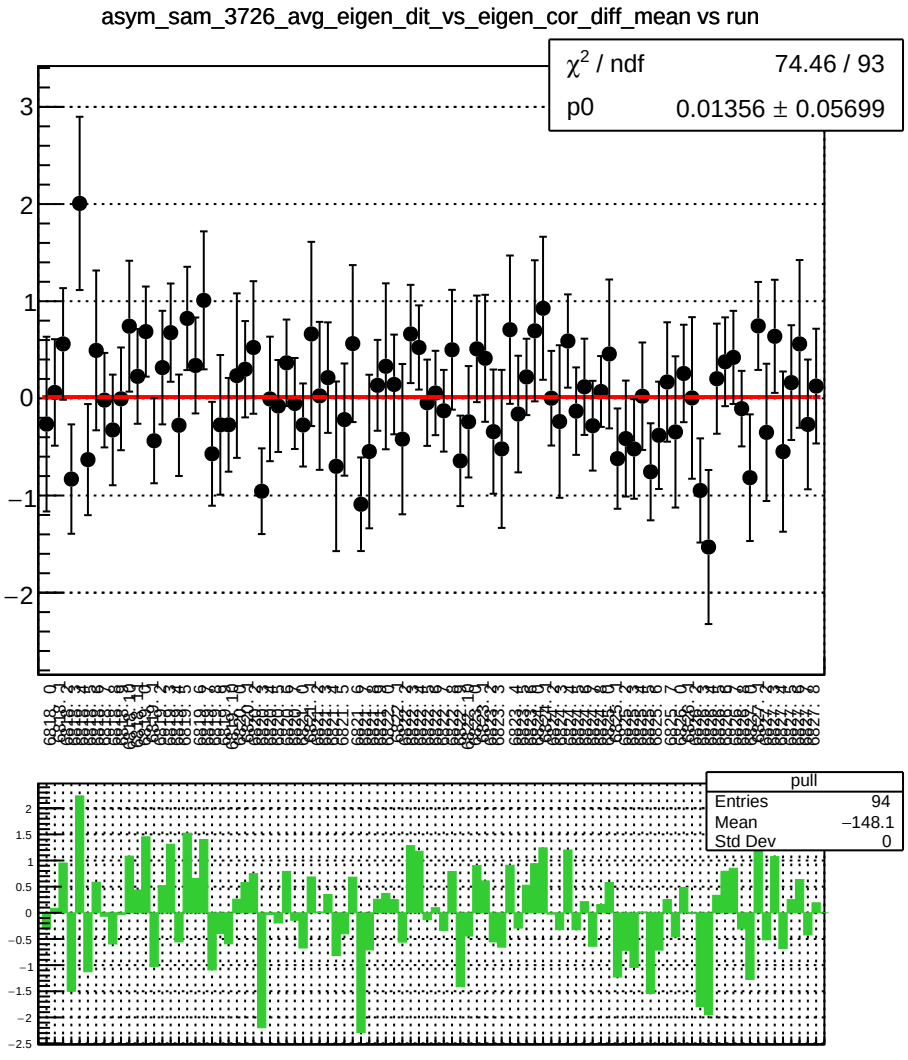

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.6 / 93
p0 7.225e−07 ± 2.079e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 94
Mean −1011
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001914
Std Dev 0.9979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

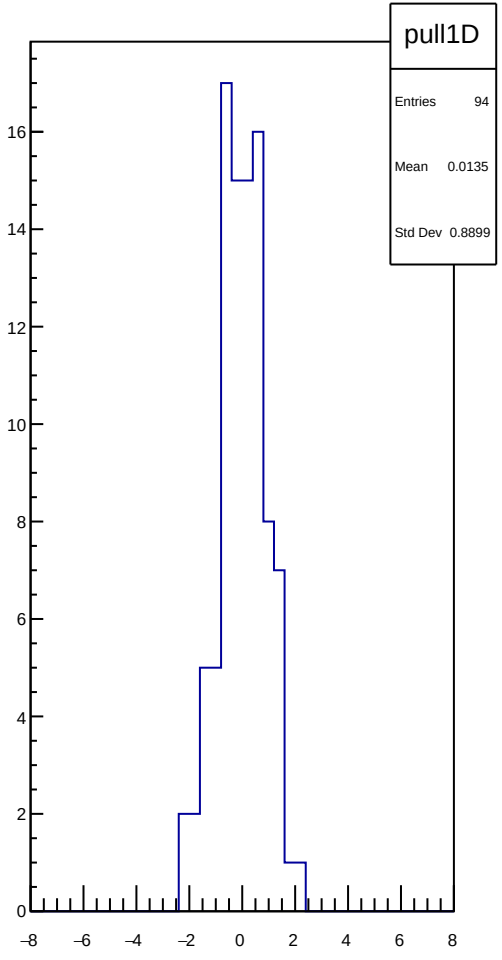

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4249 / 93
p0 0.001967 ± 1.47e–06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

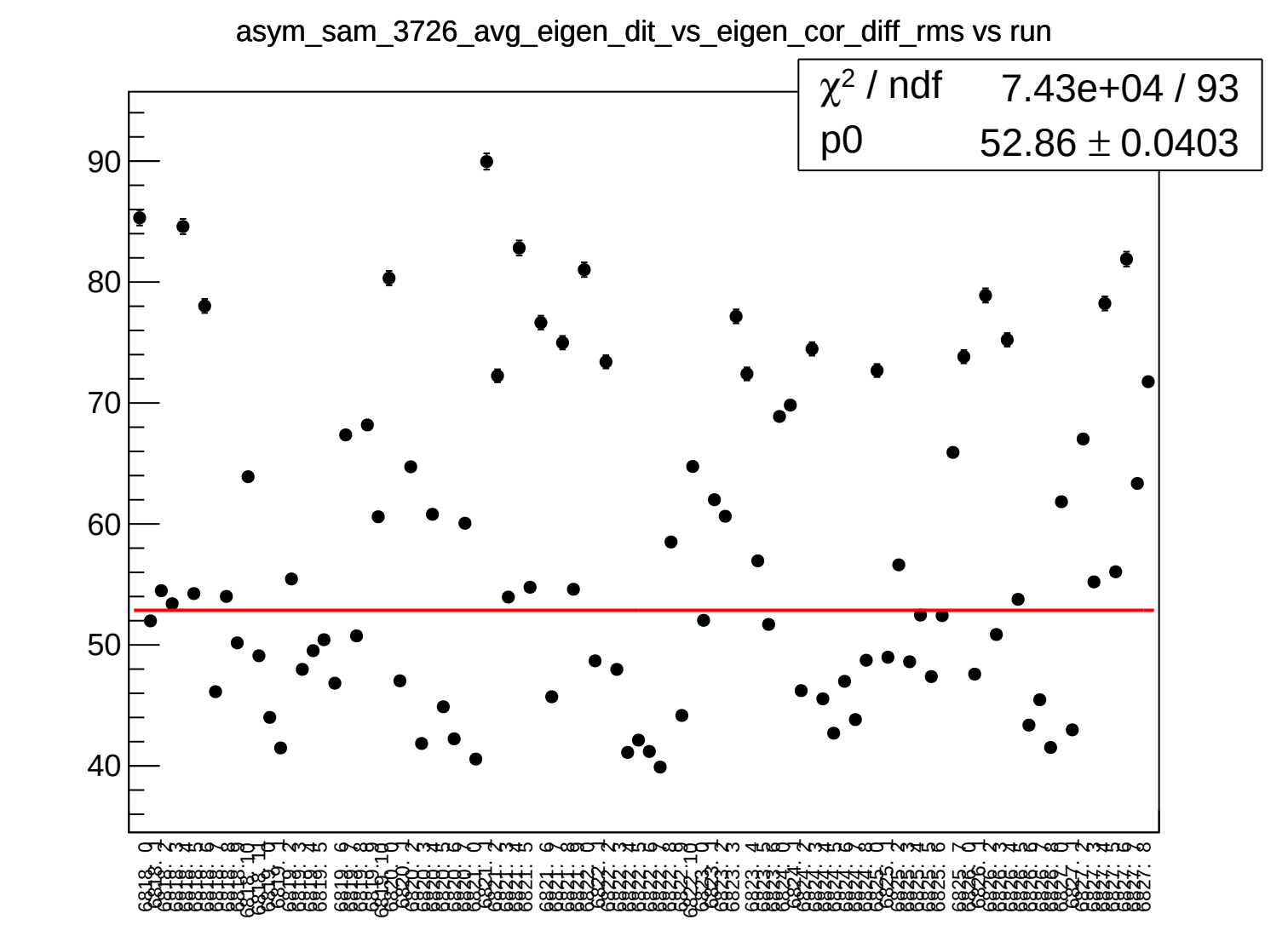

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.46 / 93
p0 0.01356 ± 0.05699
pull
Entries 94
Mean −148.1
Std Dev 0

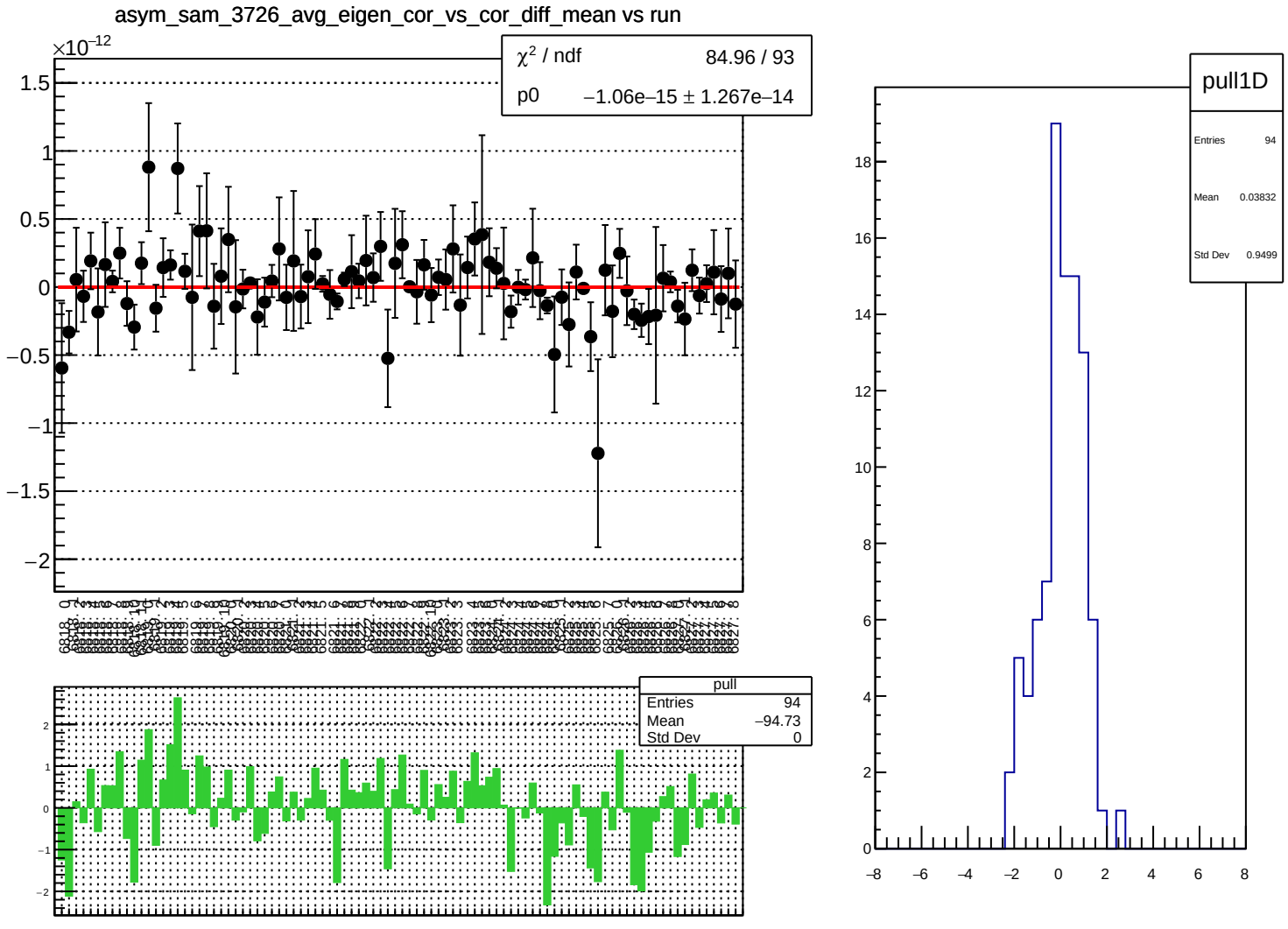

pull1D
Entries 94
Mean 0.0135
Std Dev 0.8899

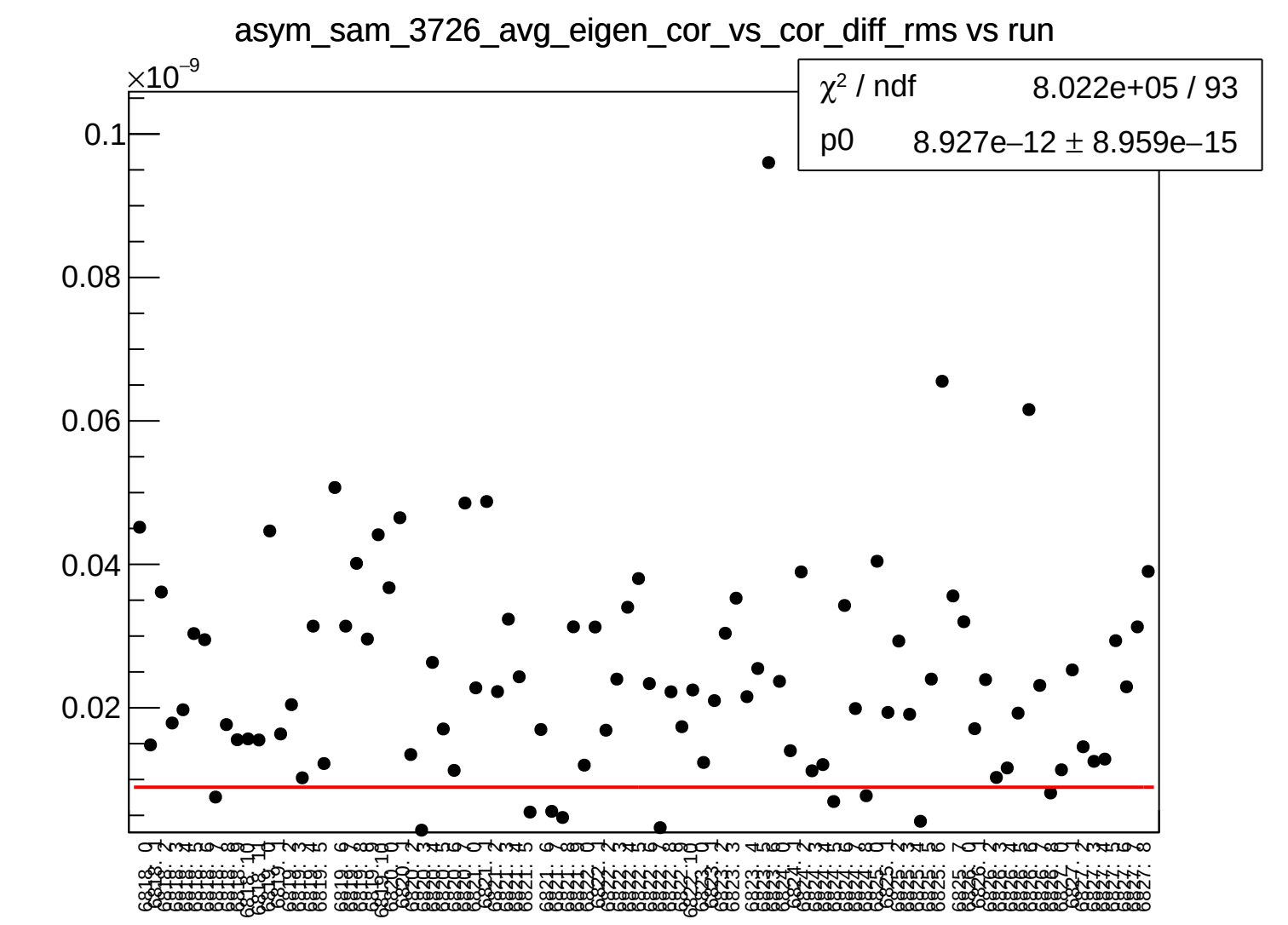

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 52.86 ± 0.0403
90
80
70
60
50
40

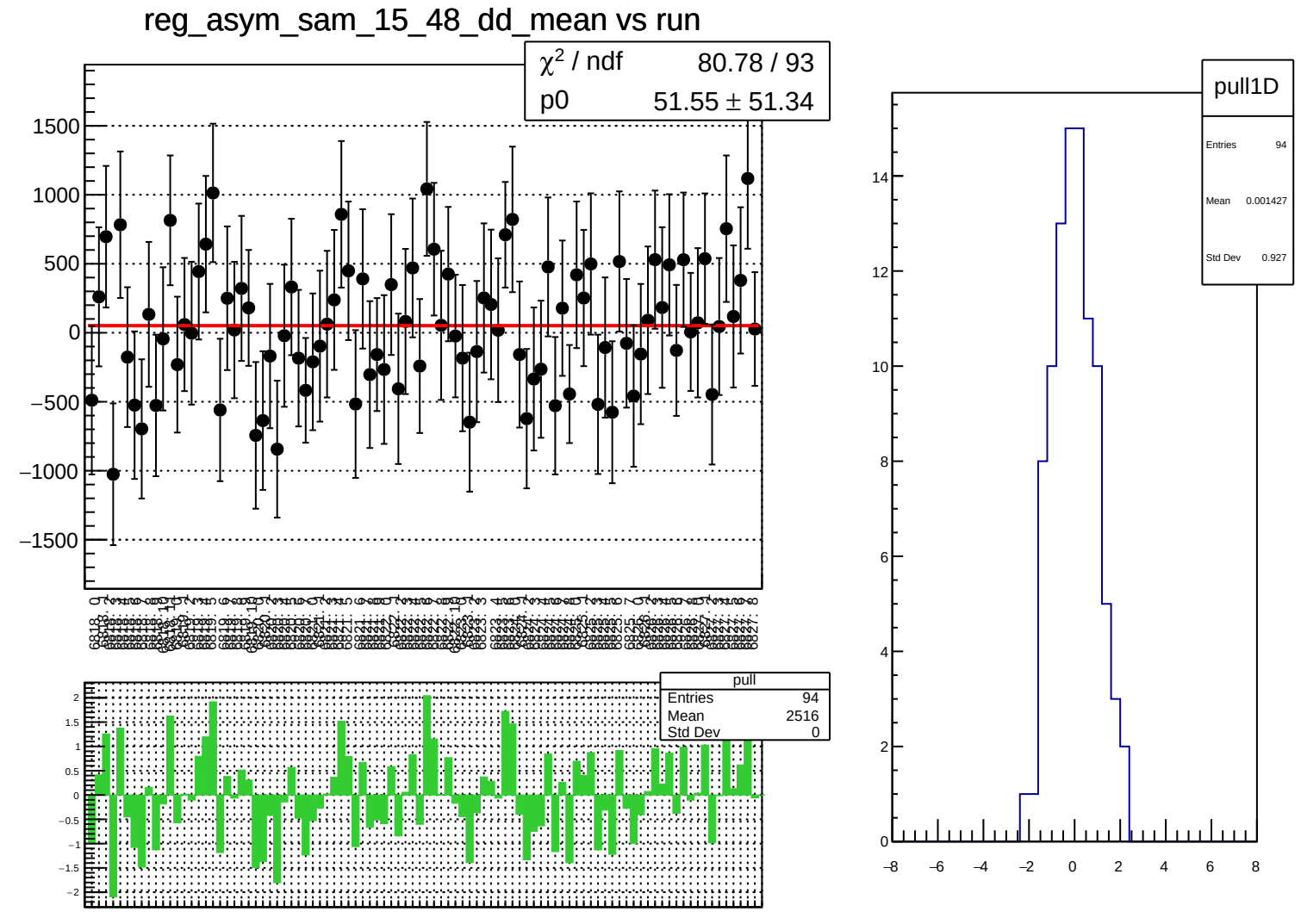

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.46 / 93
p0 0.01356 ± 0.05699
pull
Entries 94
Mean −148.1
Std Dev 0

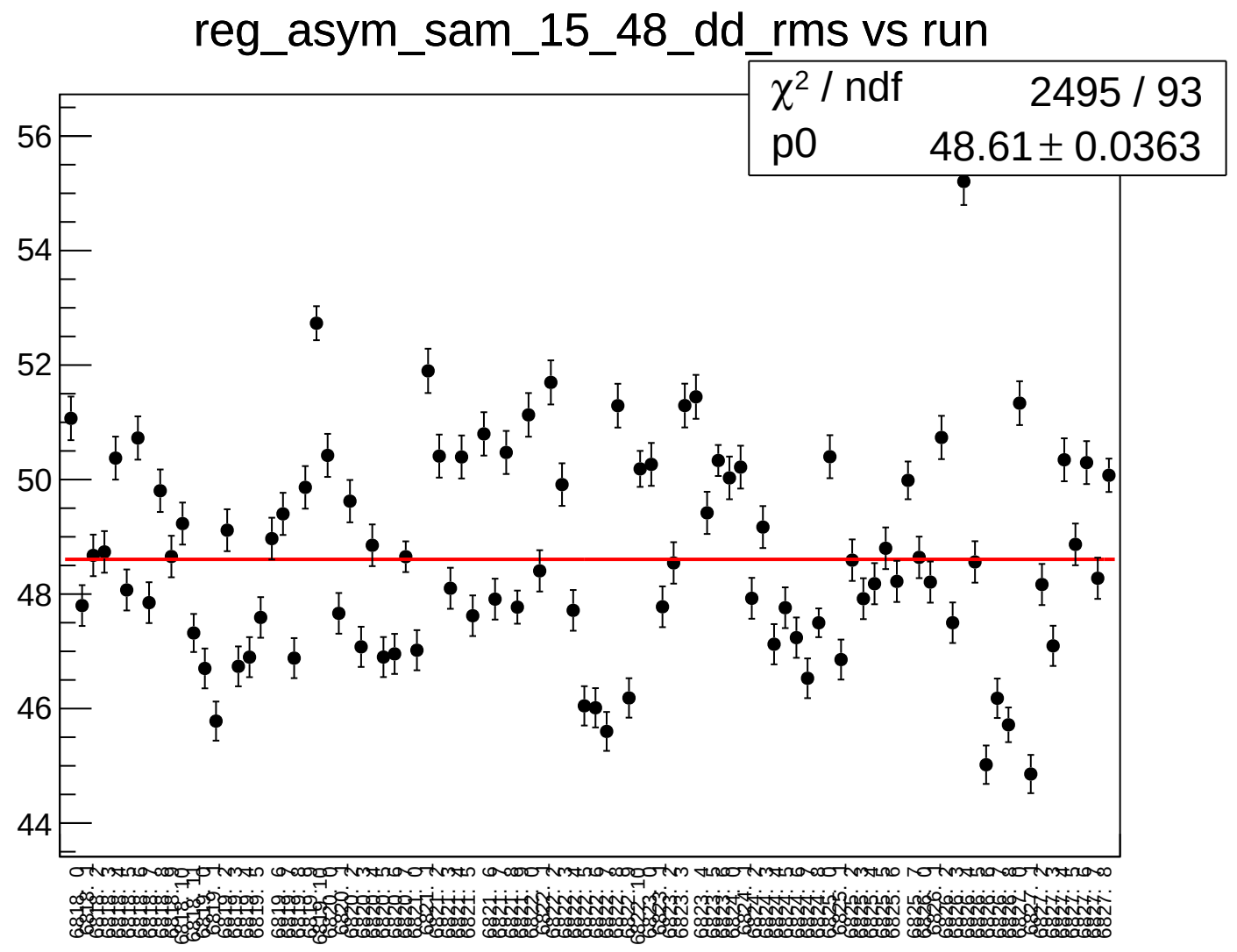

pull1D
Entries 94
Mean 0.0135
Std Dev 0.8899

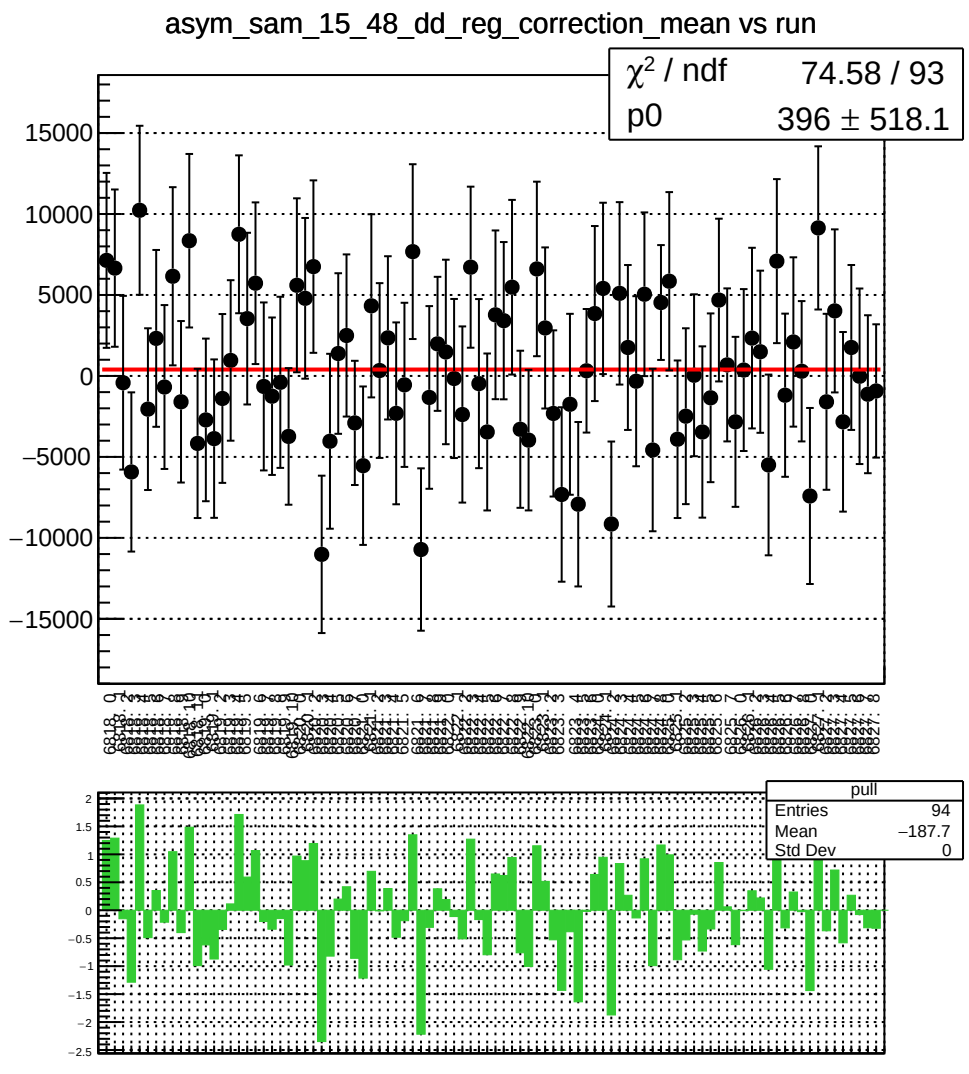

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.43e+04 / 93
p0 52.86 ± 0.0403
90
80
70
60
50
40

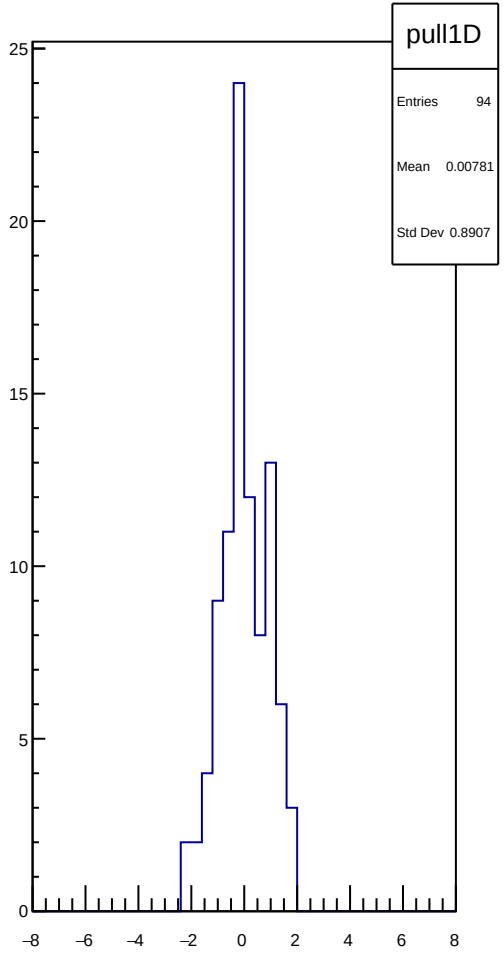

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.96 / 93
p0 −1.06e−15 ± 1.267e−14
pull
Entries 94
Mean −94.73
Std Dev 0
pull1D
Entries 94
Mean 0.03832
Std Dev 0.9499

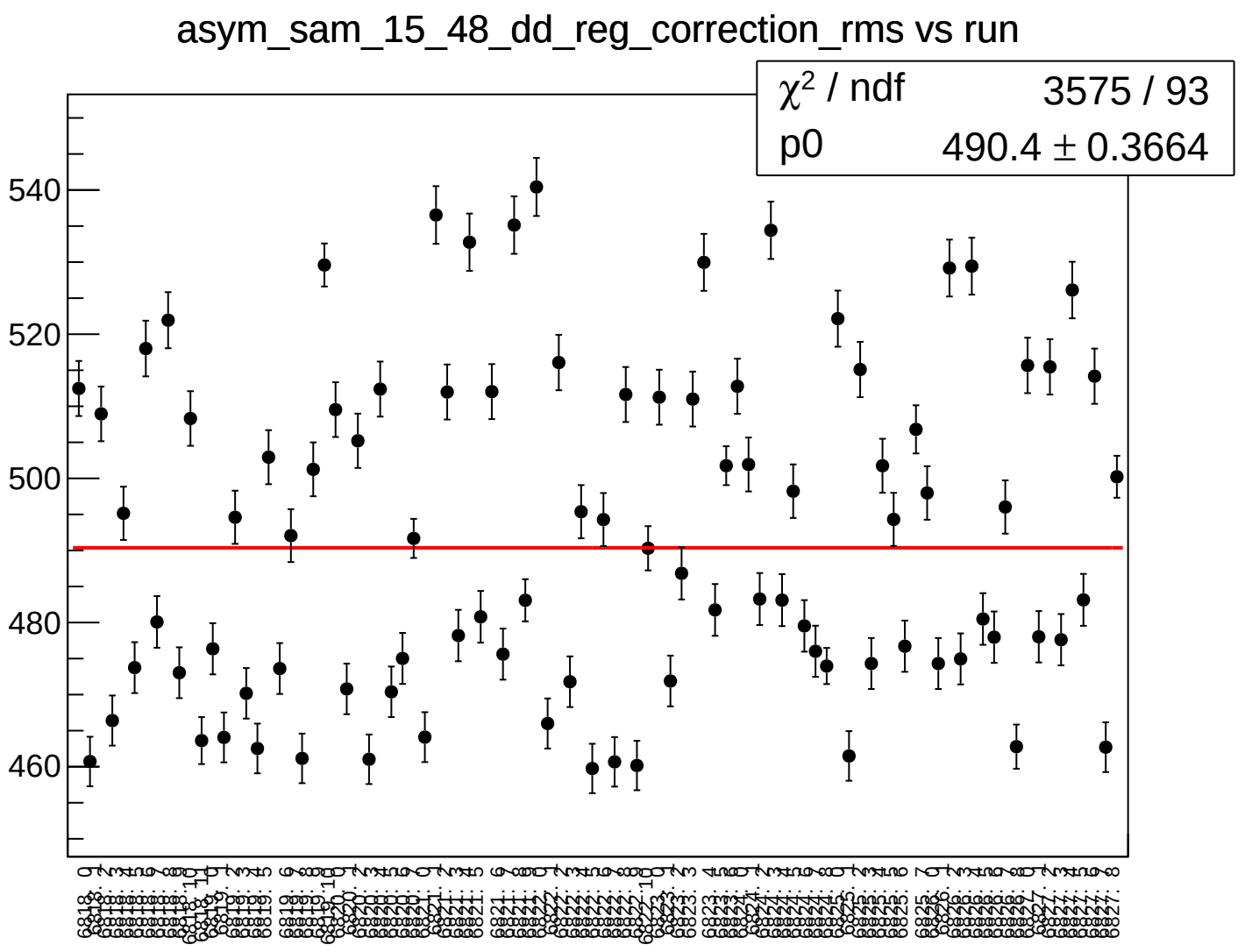

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.022e+05 / 93
p0 8.927e−12 ± 8.959e−15
0.1
0.08
0.06
0.04
0.02

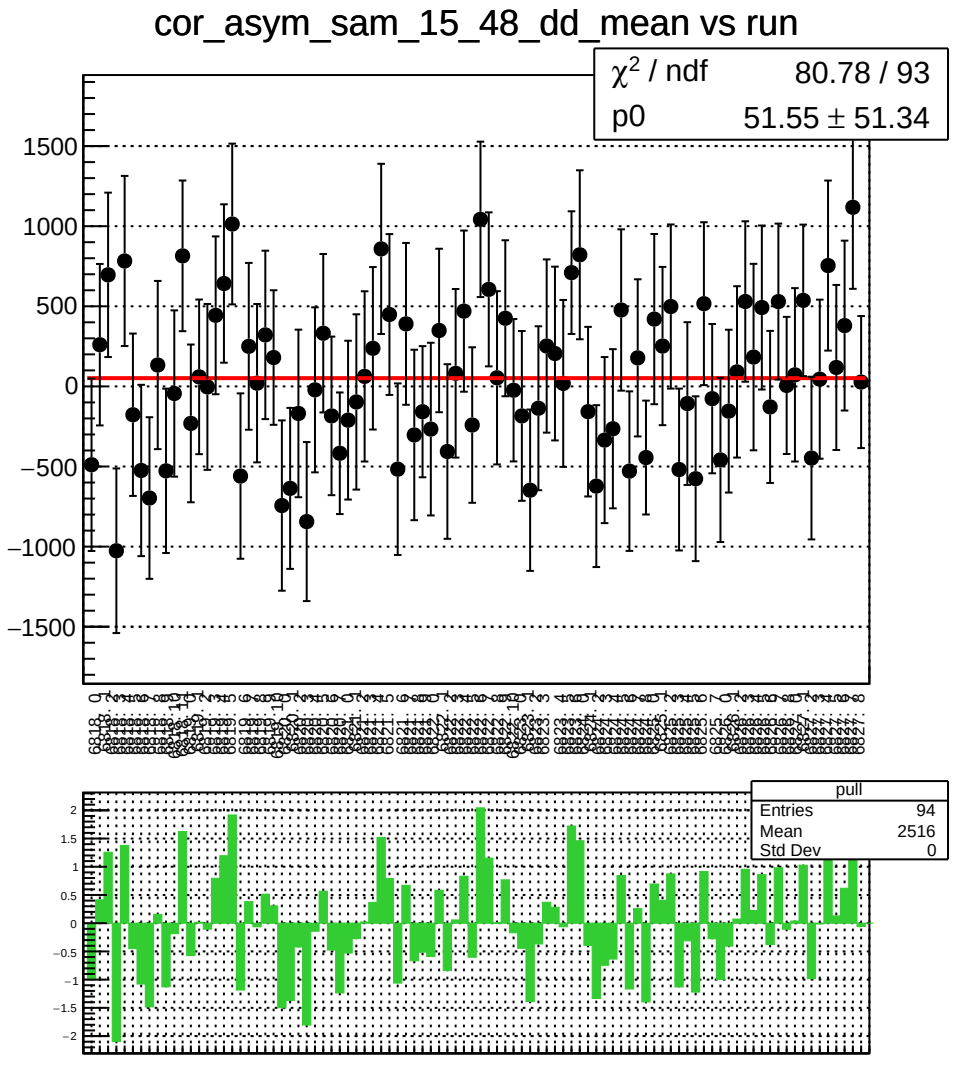

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 80.78 / 93
p0 51.55 ± 51.34
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 2516
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.001427
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

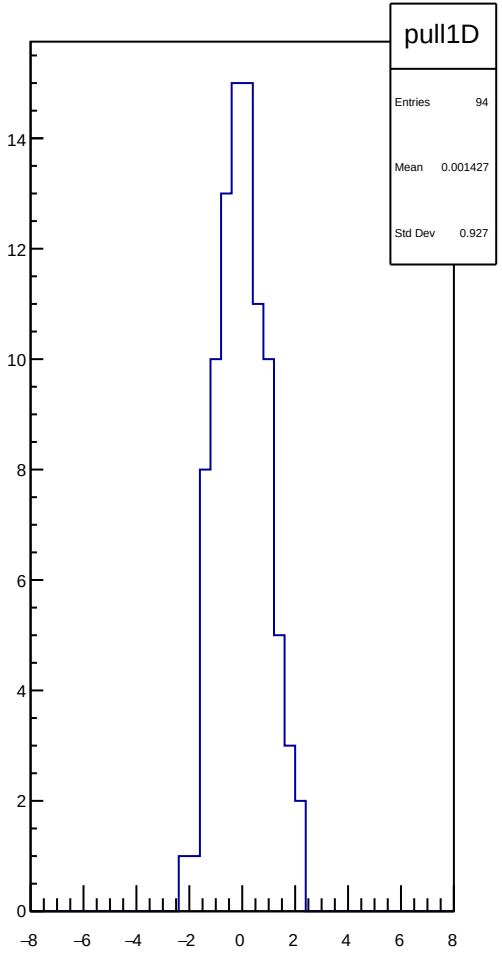

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2495 / 93
p0 48.61 ± 0.0363
56
54
52
50
48
46
44

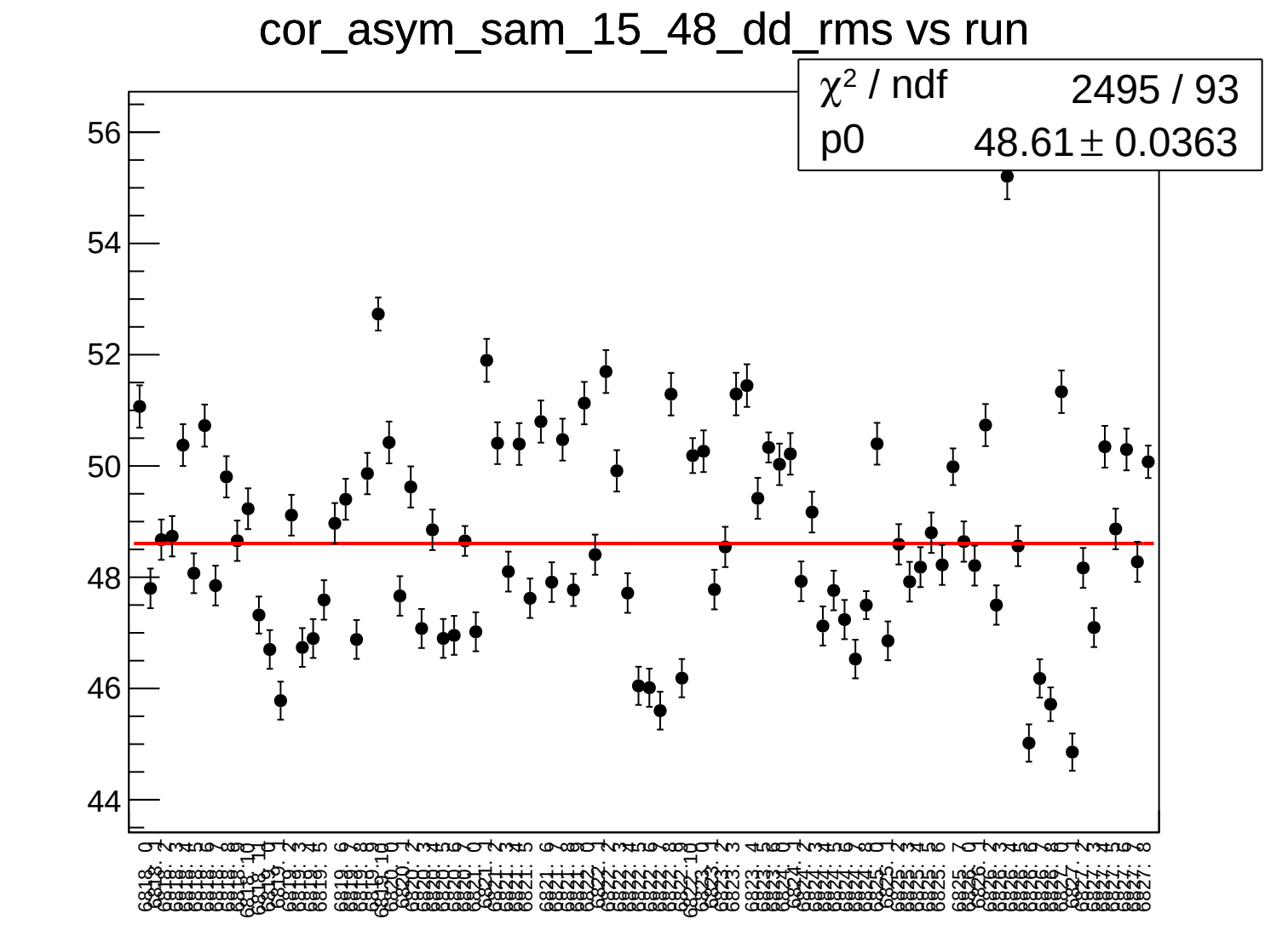

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 74.58 / 93
p0 396 ± 518.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −187.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

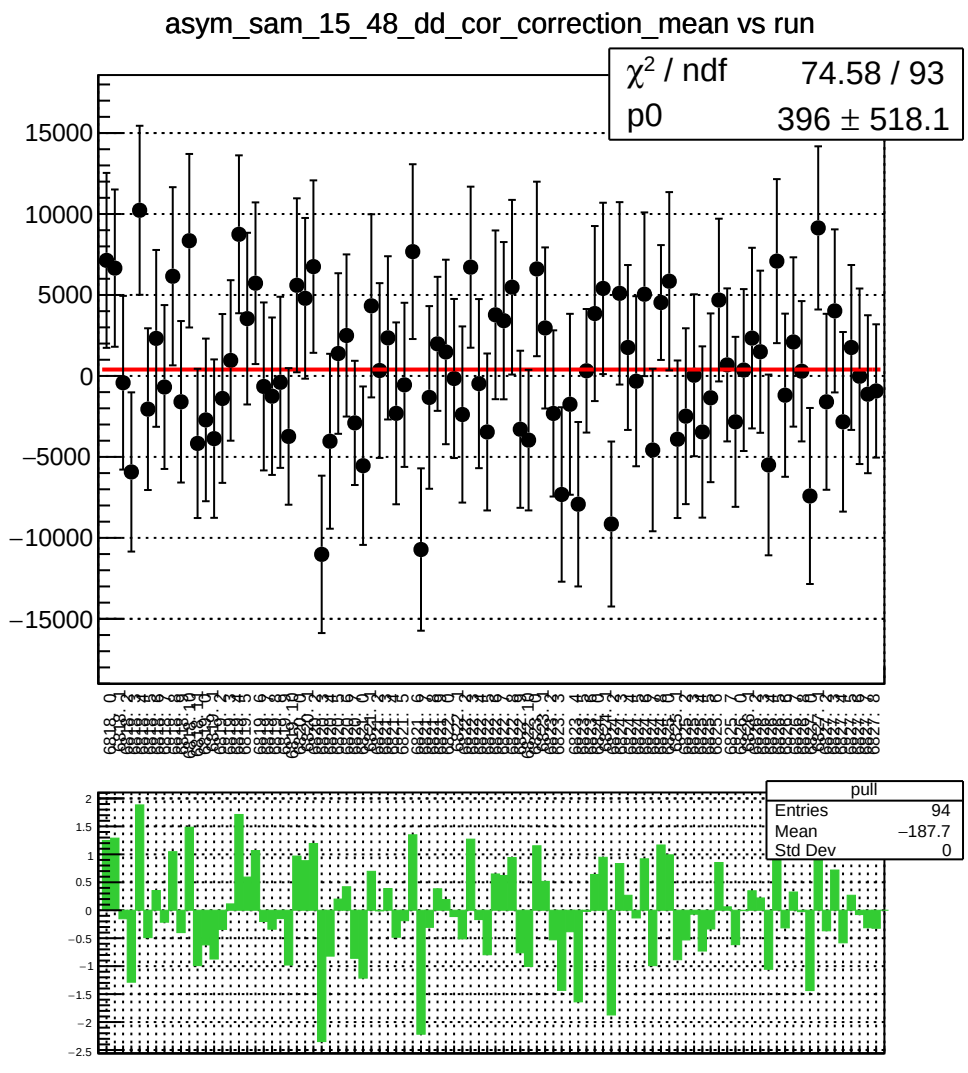

pull1D
Entries 94
Mean 0.00781
Std Dev 0.8907
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

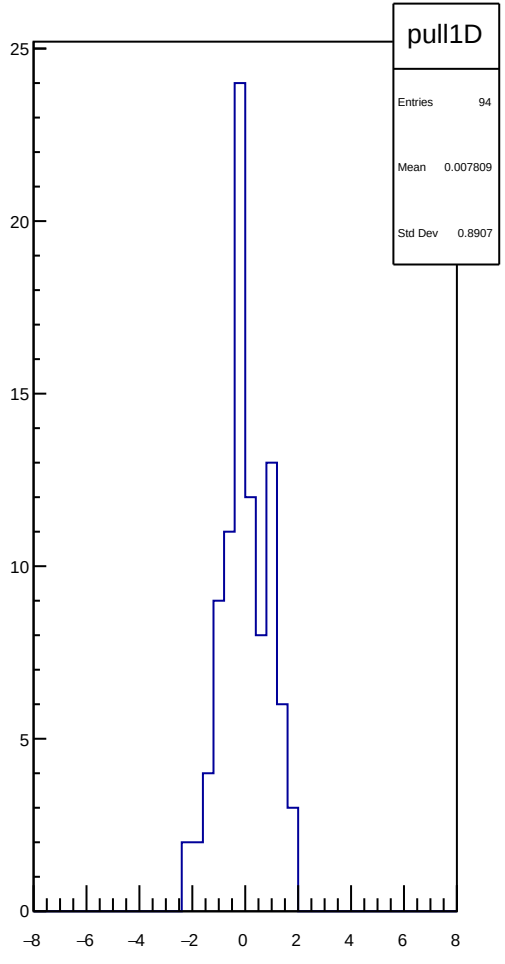

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3575 / 93
p0 490.4 ± 0.3664
540
520
500
480
460

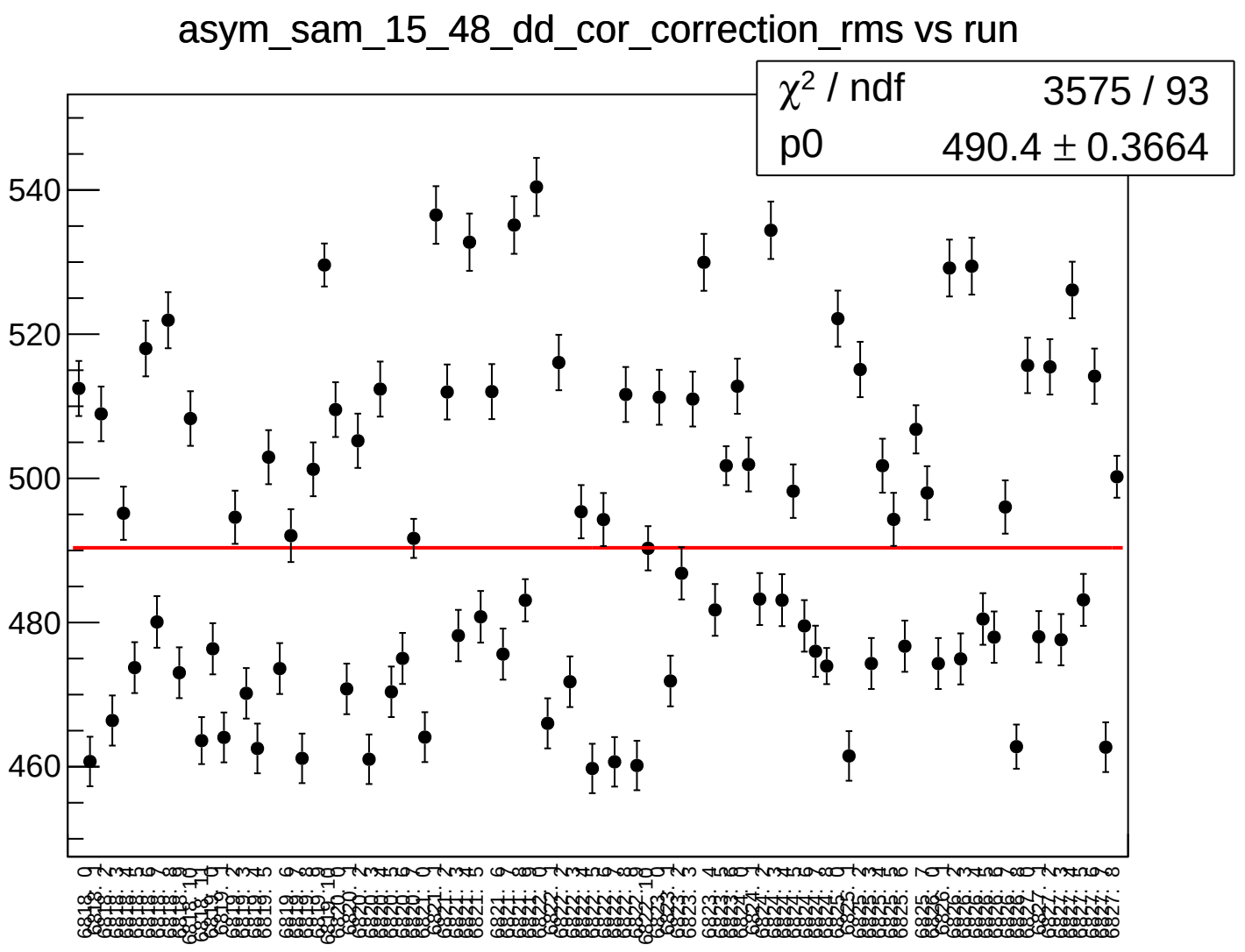

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 80.78 / 93
p0 51.55 ± 51.34
pull
Entries 94
Mean 2516
Std Dev 0

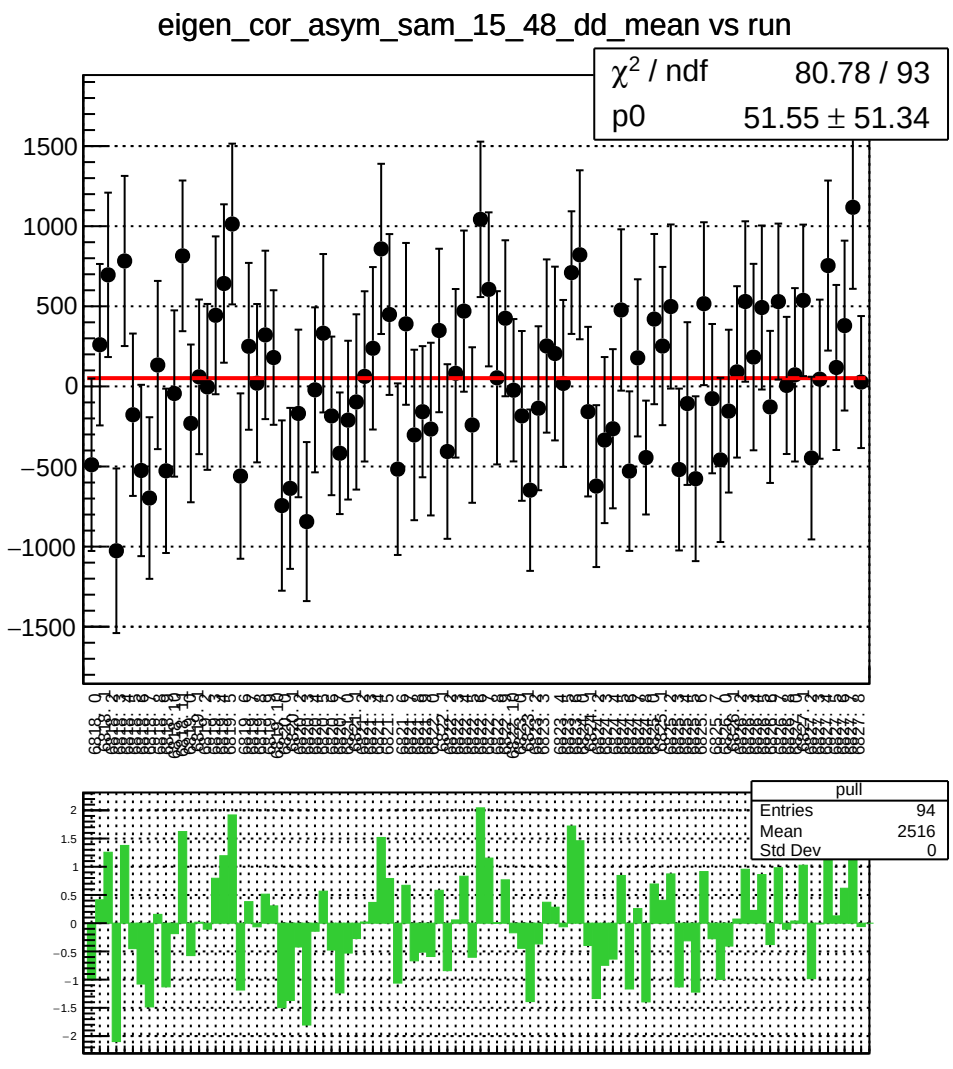

pull1D
Entries 94
Mean 0.001427
Std Dev 0.927

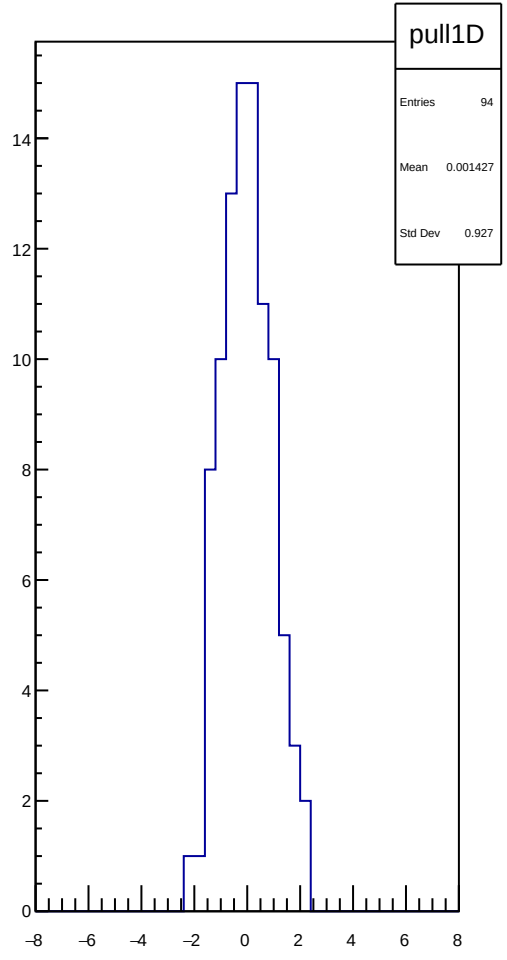

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2495 / 93
p0 48.61 ± 0.0363
56
54
52
50
48
46
44

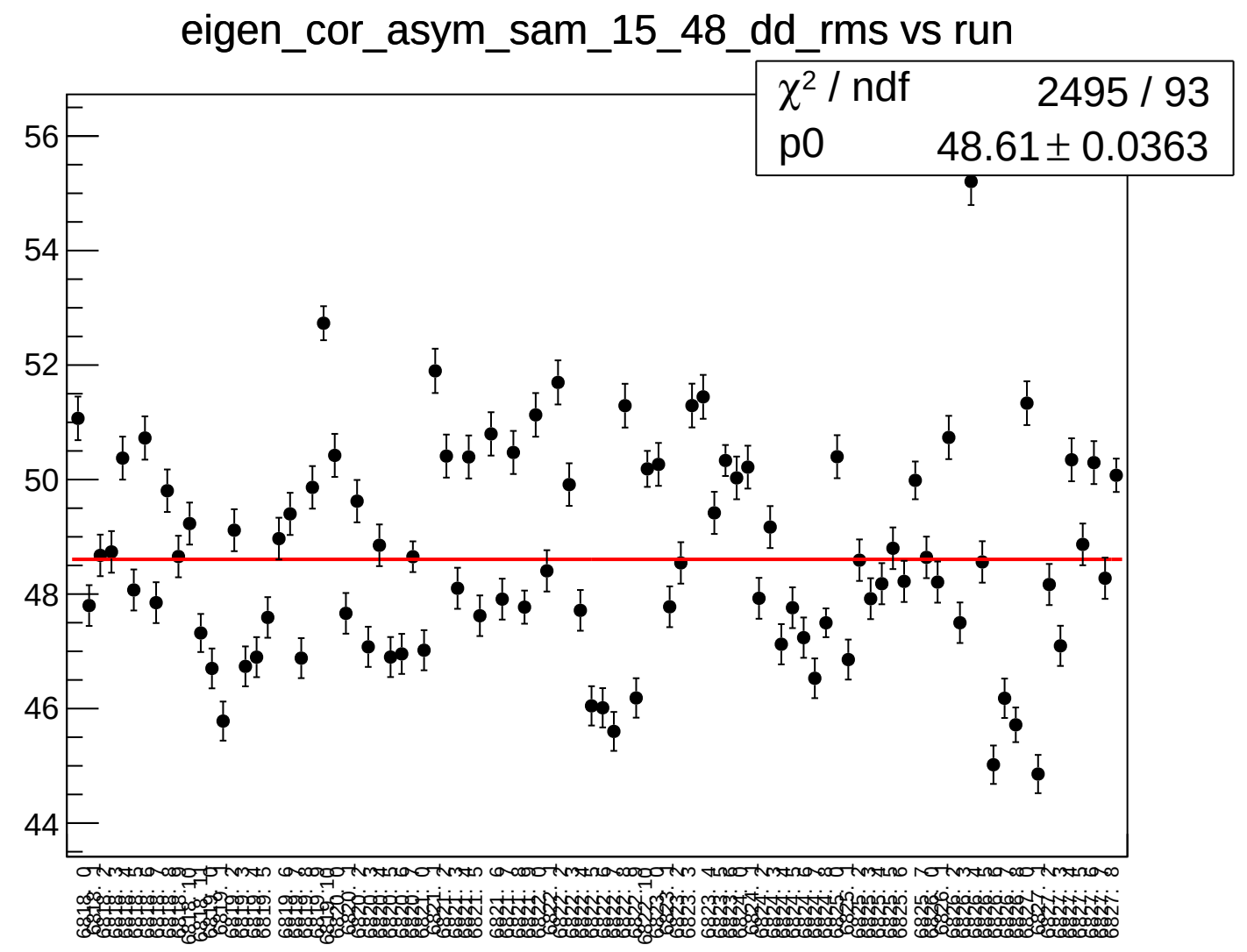

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 74.58 / 93
p0 396 ± 518.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −187.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

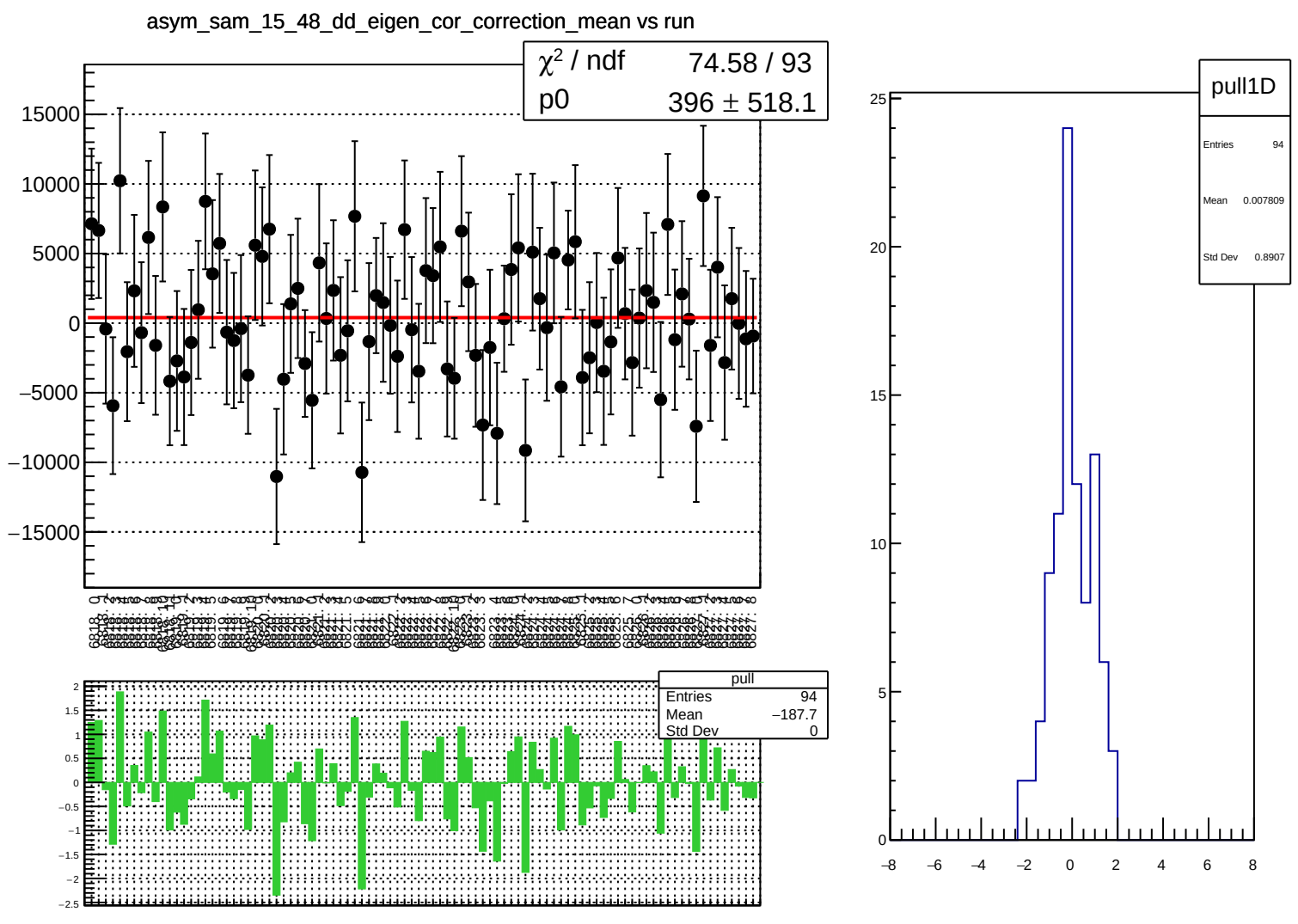

pull1D
Entries 94
Mean 0.007809
Std Dev 0.8907
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

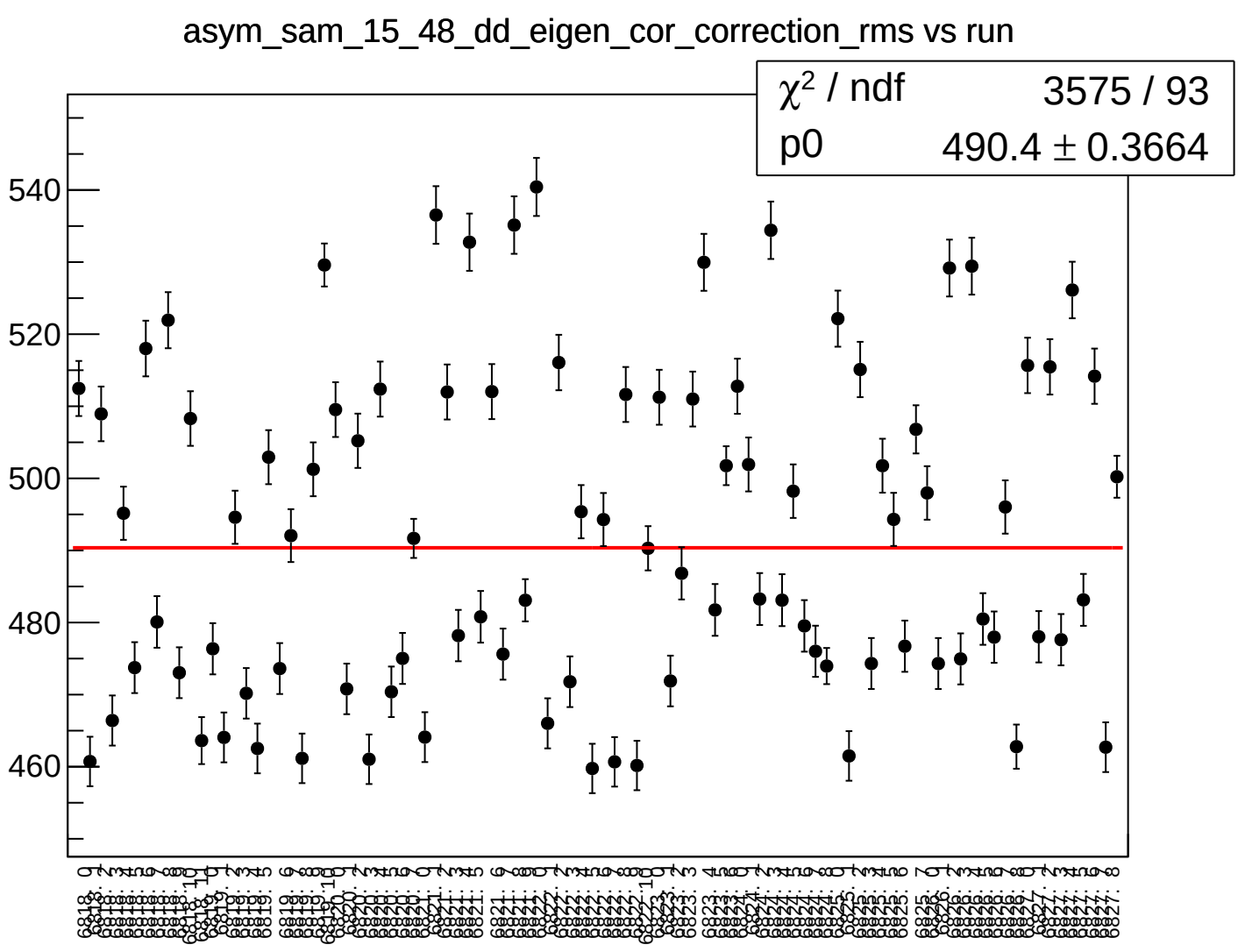

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3575 / 93
p0 490.4 ± 0.3664
540
520
500
480
460

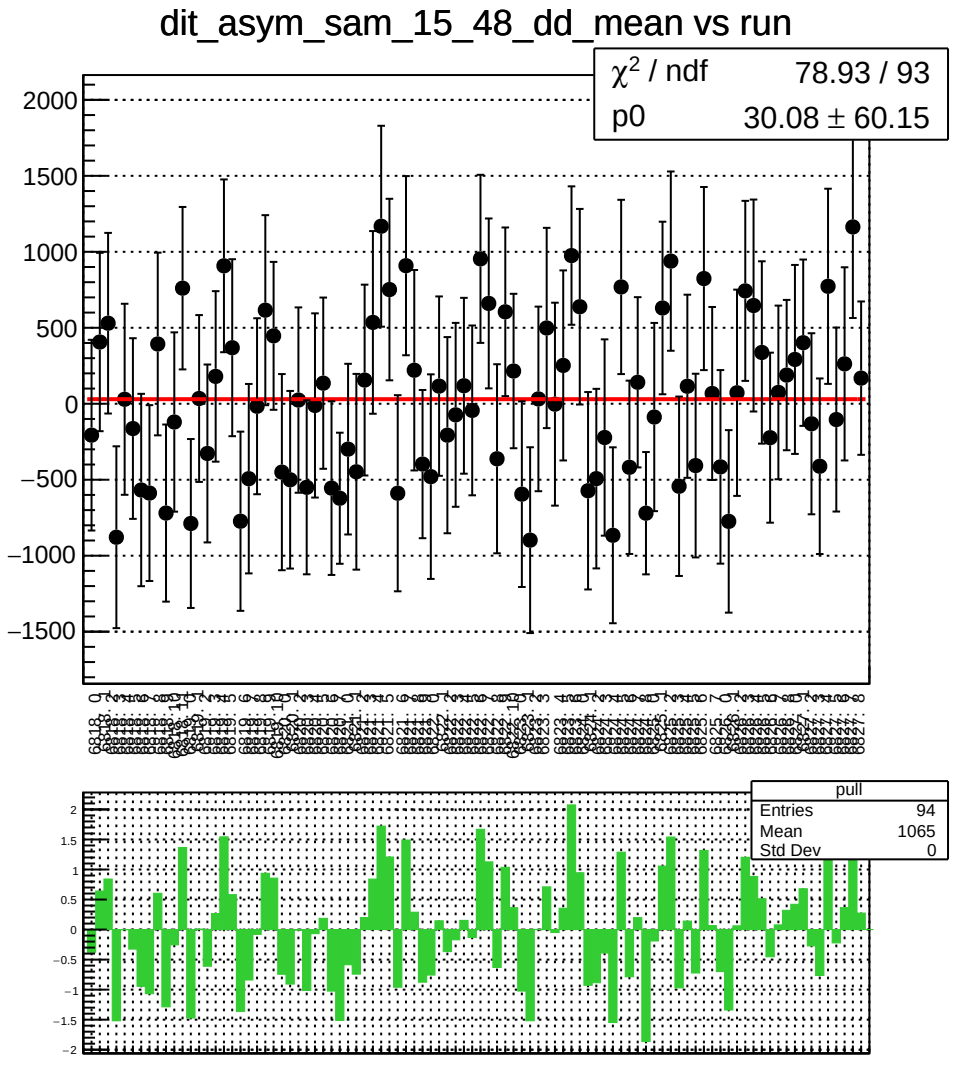

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 80.78 / 93
p0 51.55 ± 51.34
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 2516
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

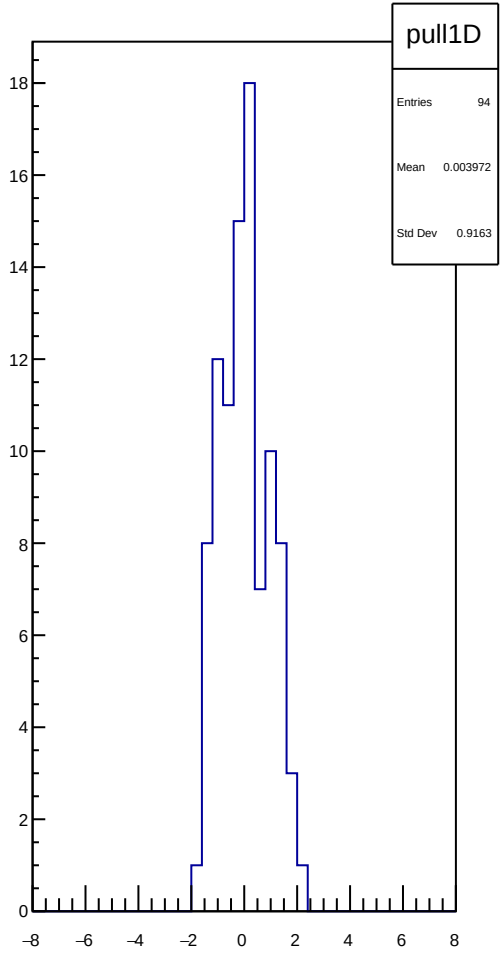

pull1D
Entries 94
Mean 0.001427
Std Dev 0.927
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

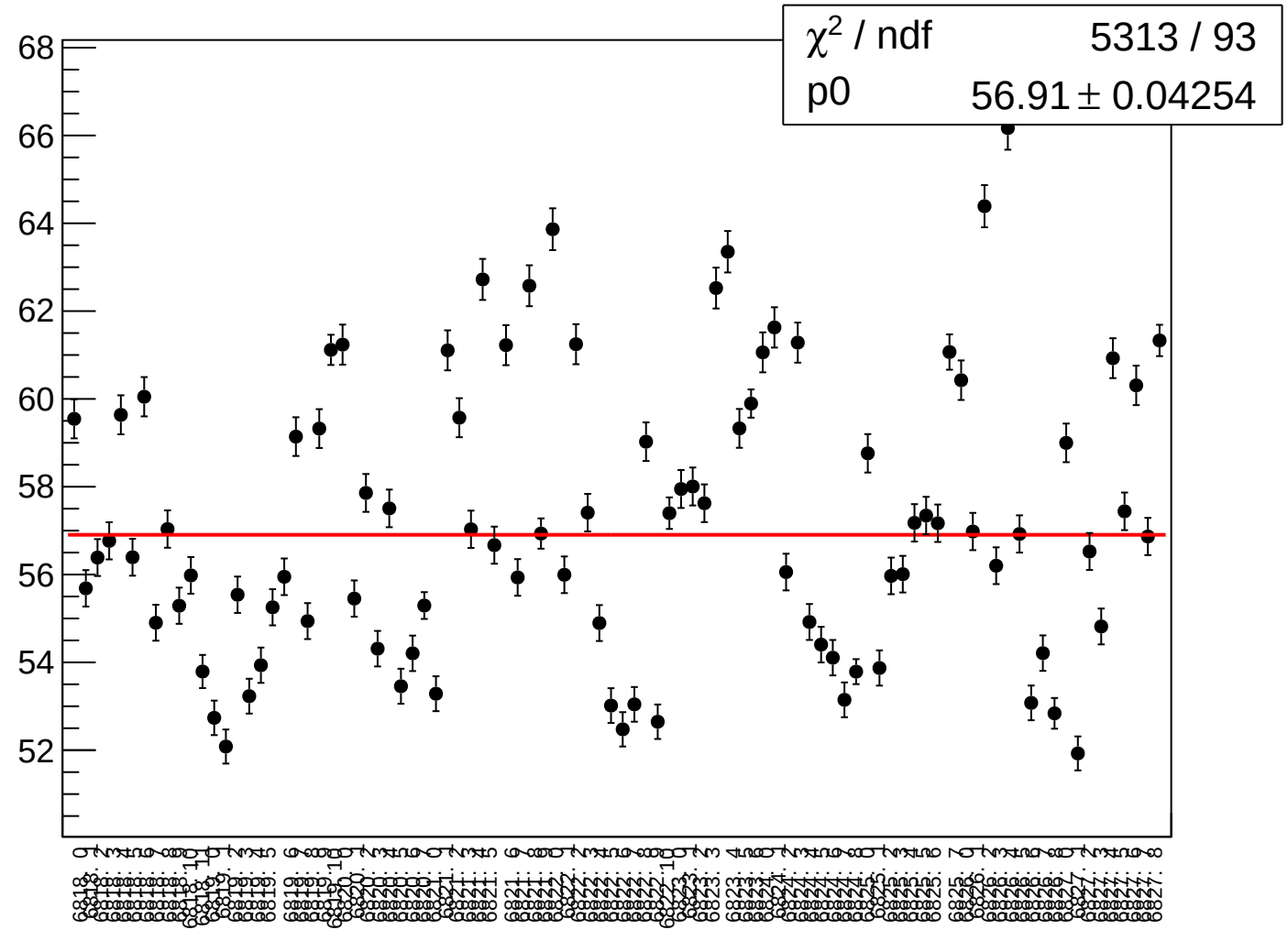

eigen_cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2495 / 93
p0 48.61 ± 0.0363
56
54
52
50
48
46
44

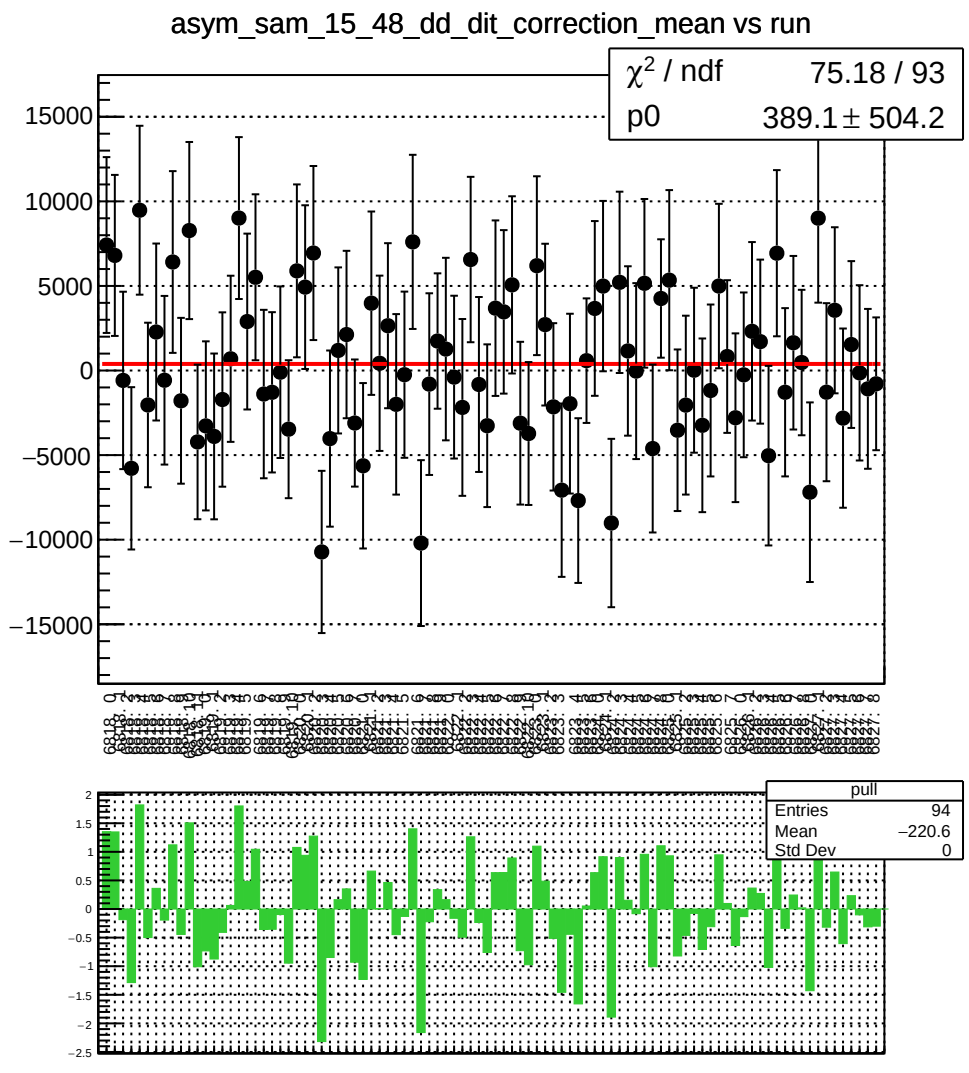

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.58 / 93
p0 396 ± 518.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −187.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.007809
Std Dev 0.8907
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

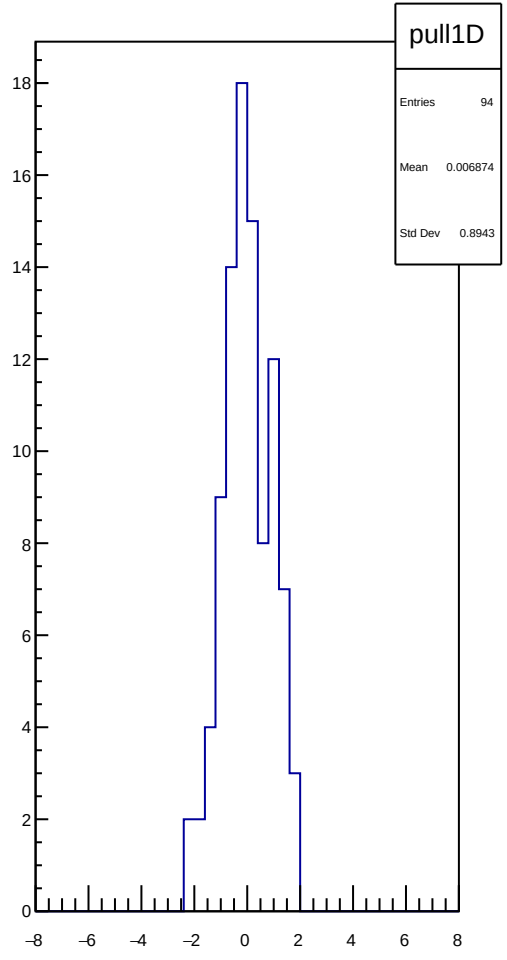

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3575 / 93
p0 490.4 ± 0.3664
540
520
500
480
460

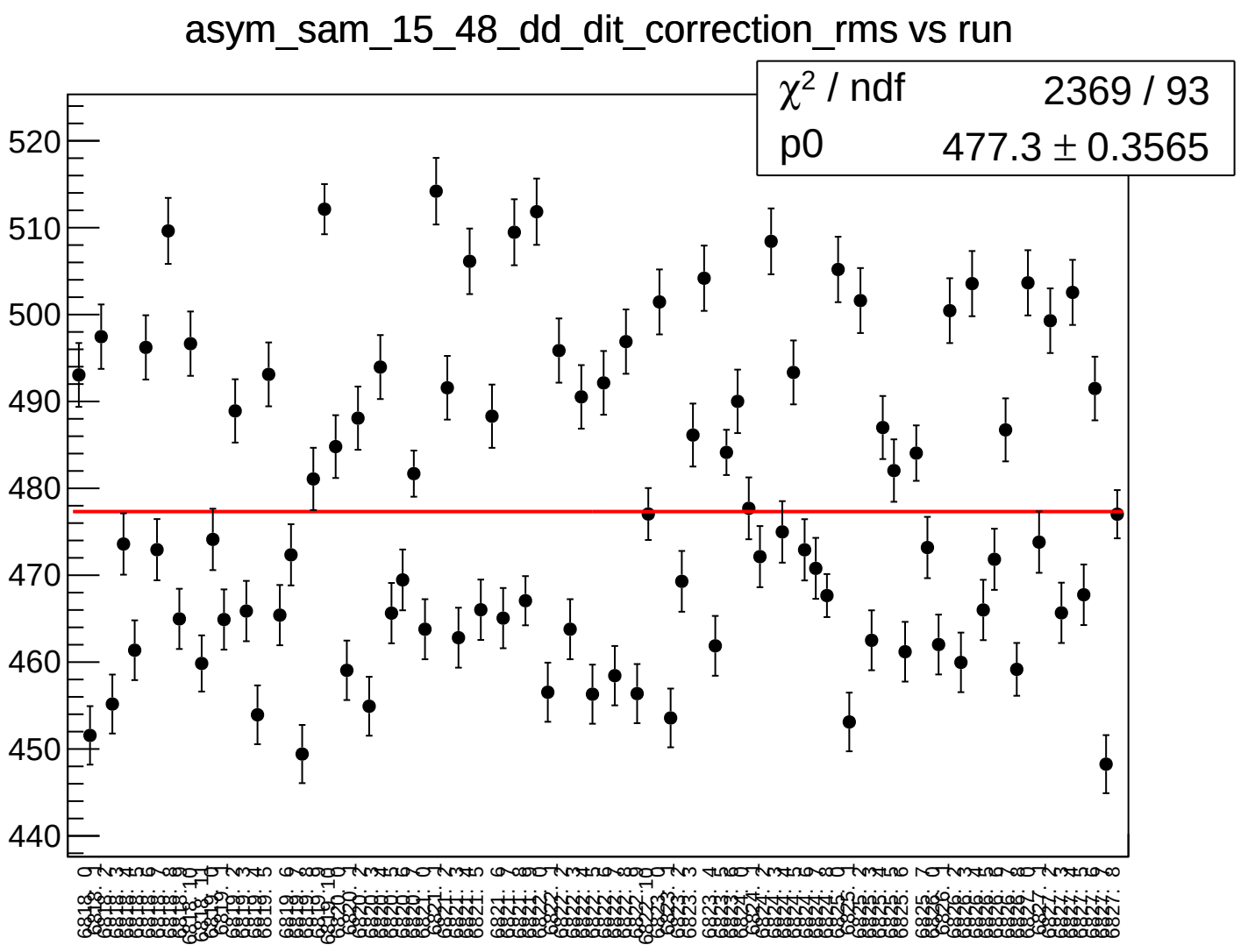

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.93 / 93
p0 30.08 ± 60.15
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 1065
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

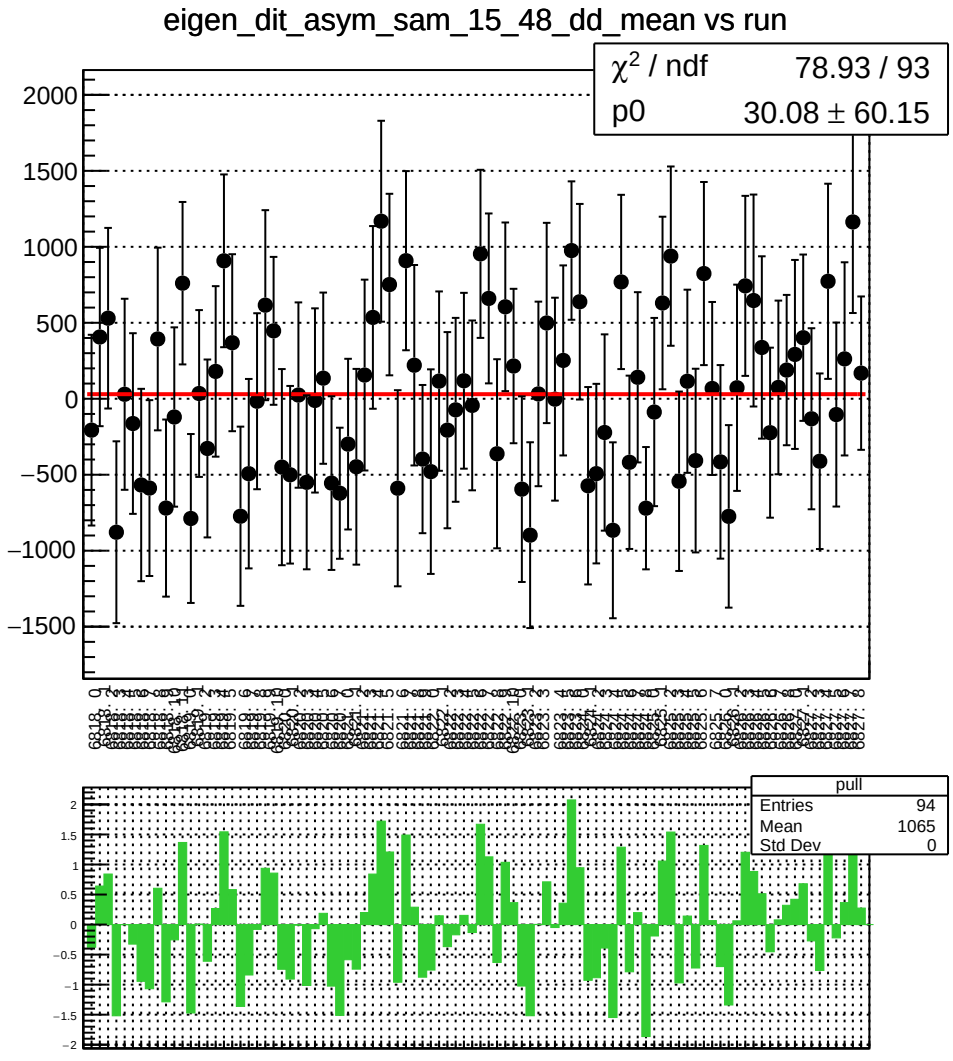

pull1D
Entries 94
Mean 0.003972
Std Dev 0.9163
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

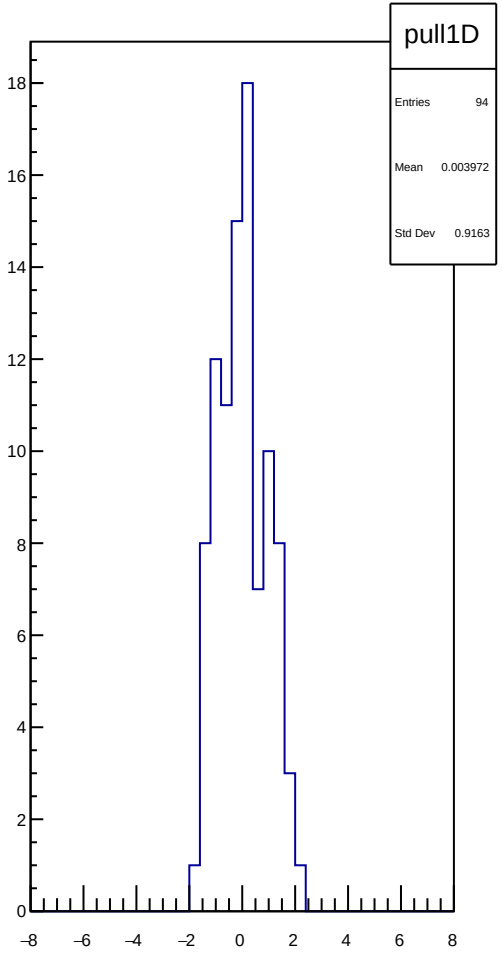

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5313 / 93
p0 56.91 ± 0.04254
68
66
64
62
60
58
56
54
52

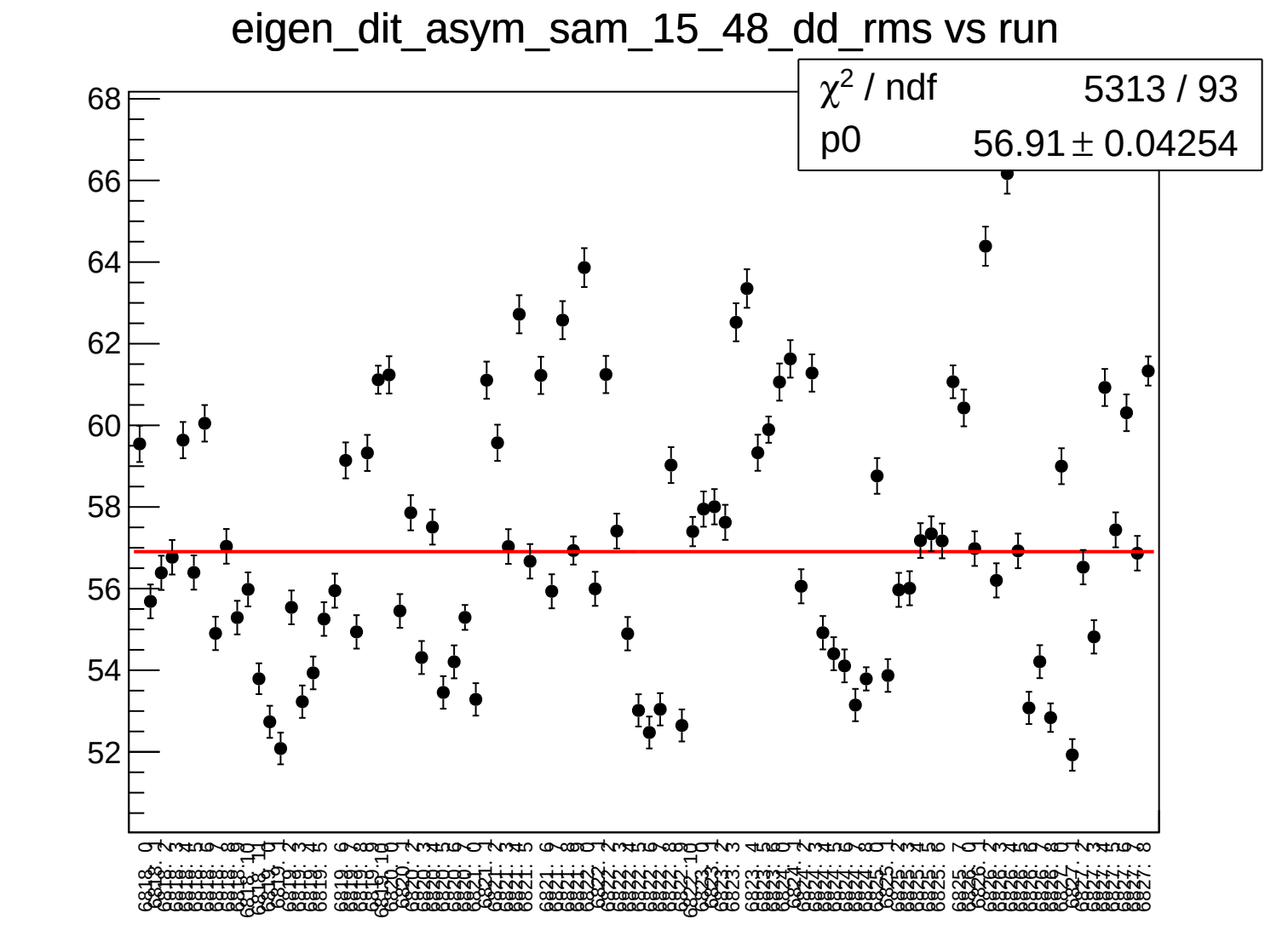

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 75.18 / 93
p0 389.1 ± 504.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −220.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

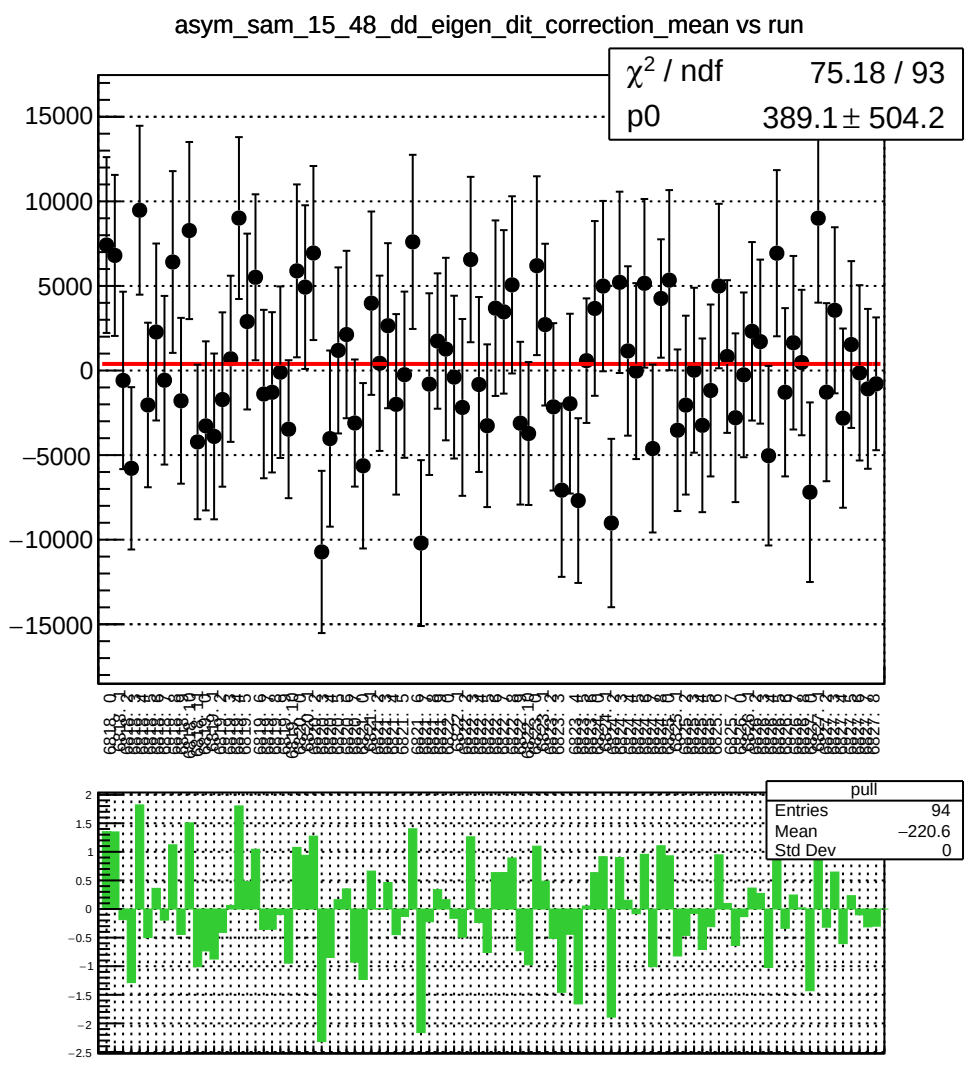

pull1D
Entries 94
Mean 0.006874
Std Dev 0.8943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

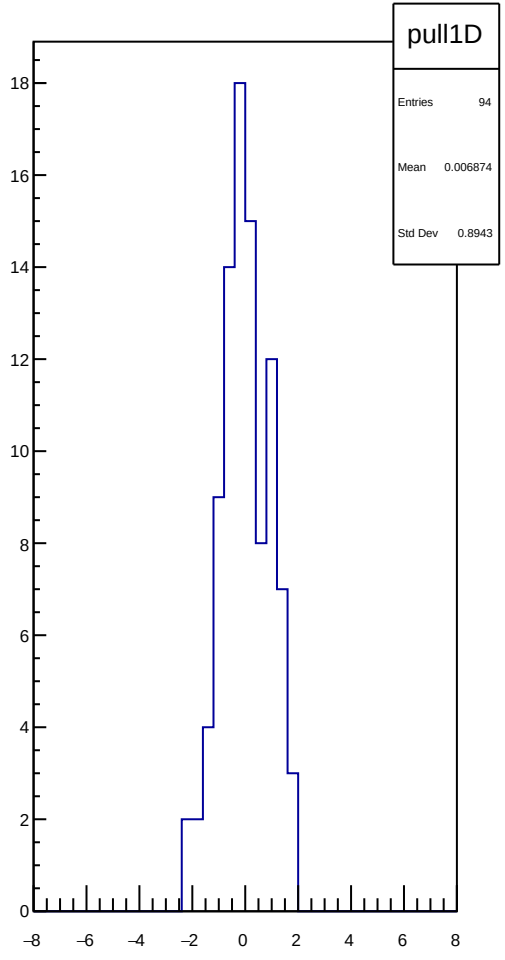

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 2369 / 93
p0 477.3 ± 0.3565
520
510
500
490
480
470
460
450
440

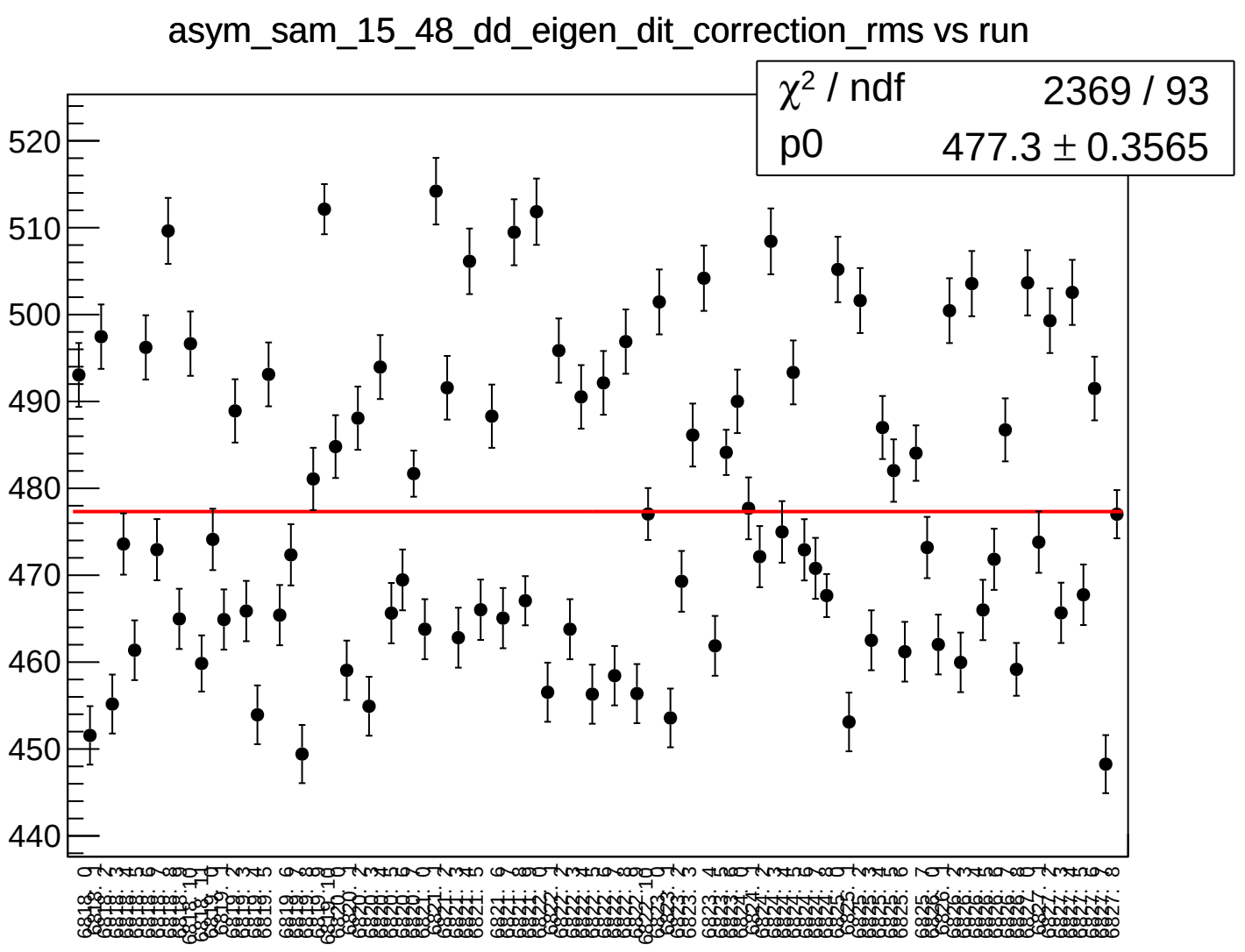

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 78.93 / 93
p0 30.08 ± 60.15
pull
Entries 94
Mean 1065
Std Dev 0

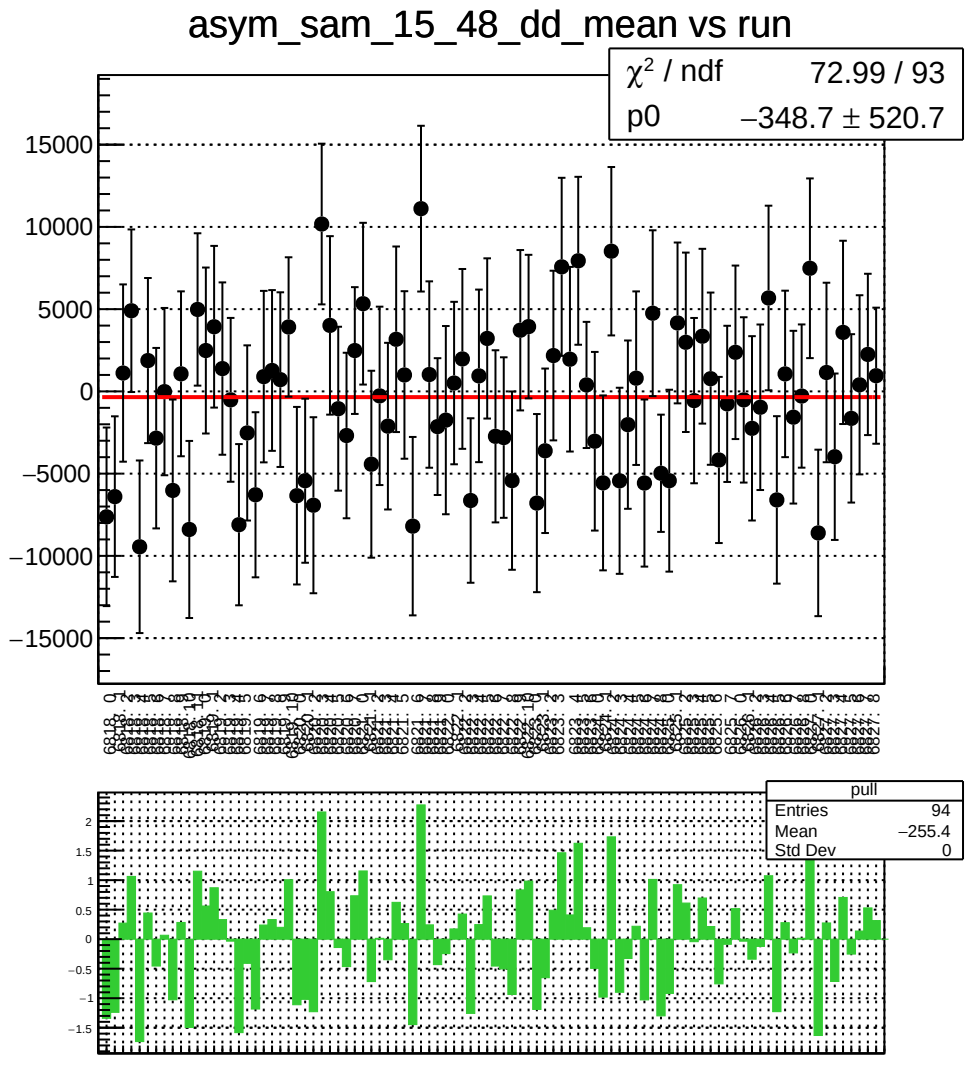

pull1D
Entries 94
Mean 0.003972
Std Dev 0.9163

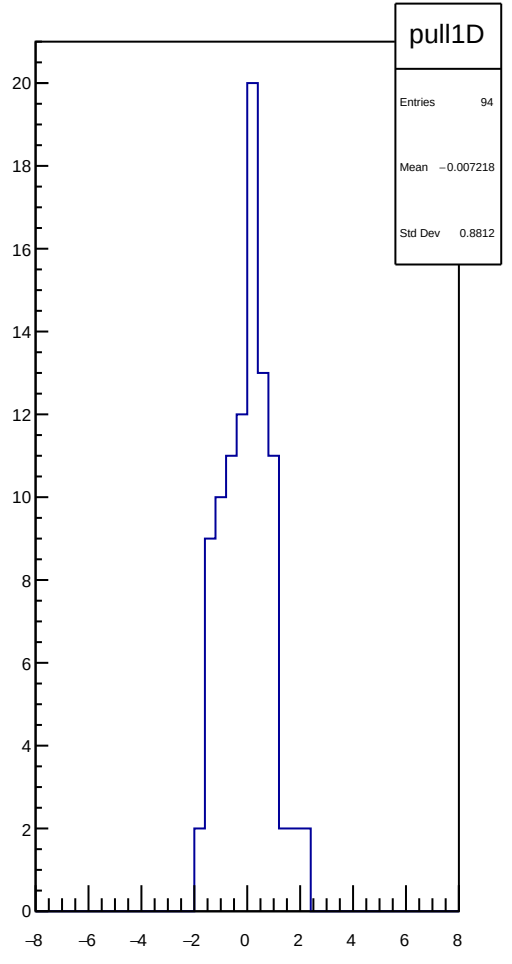

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 5313 / 93
p0 56.91 ± 0.04254
68
66
64
62
60
58
56
54
52

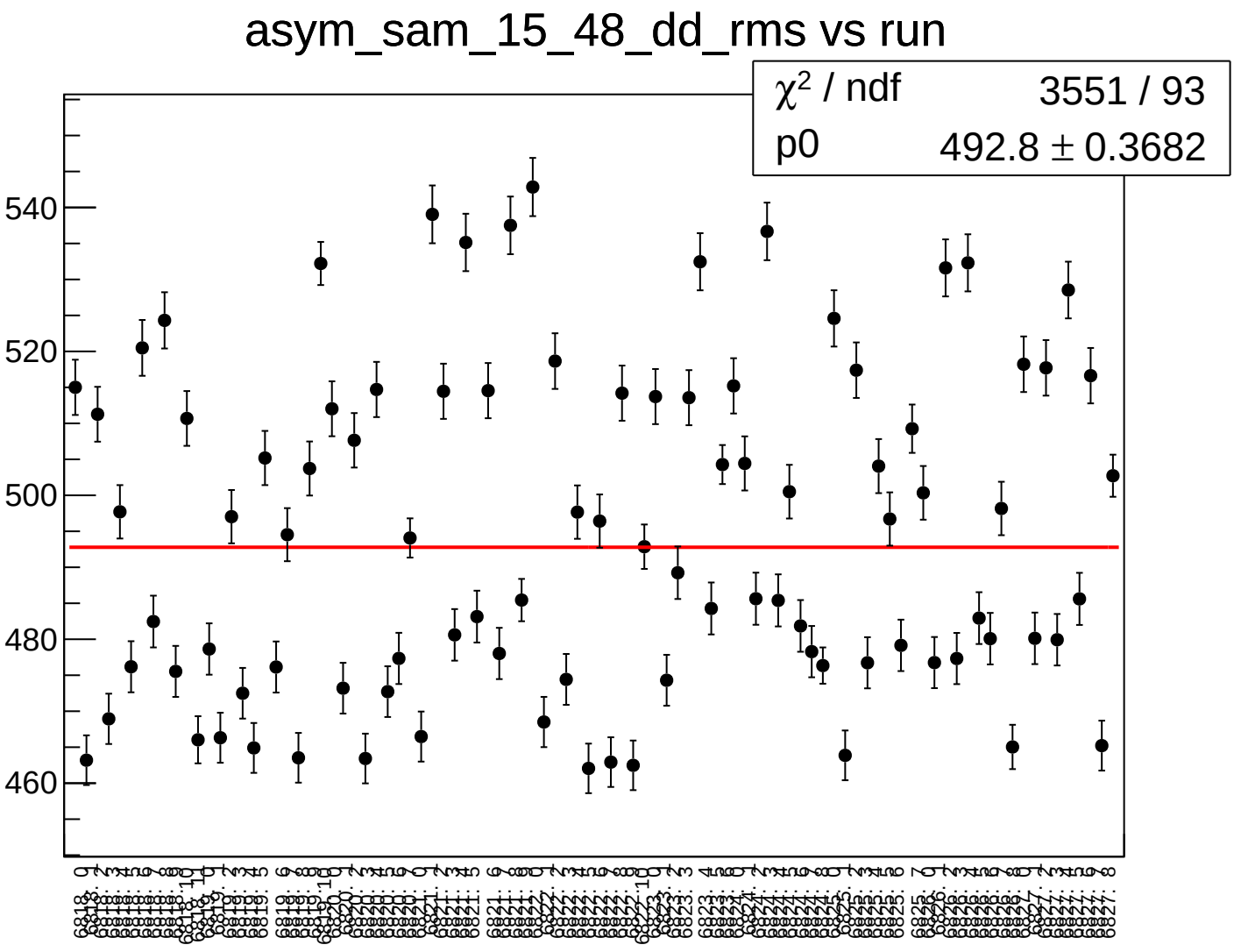

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.18 / 93
p0 389.1 ± 504.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −220.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

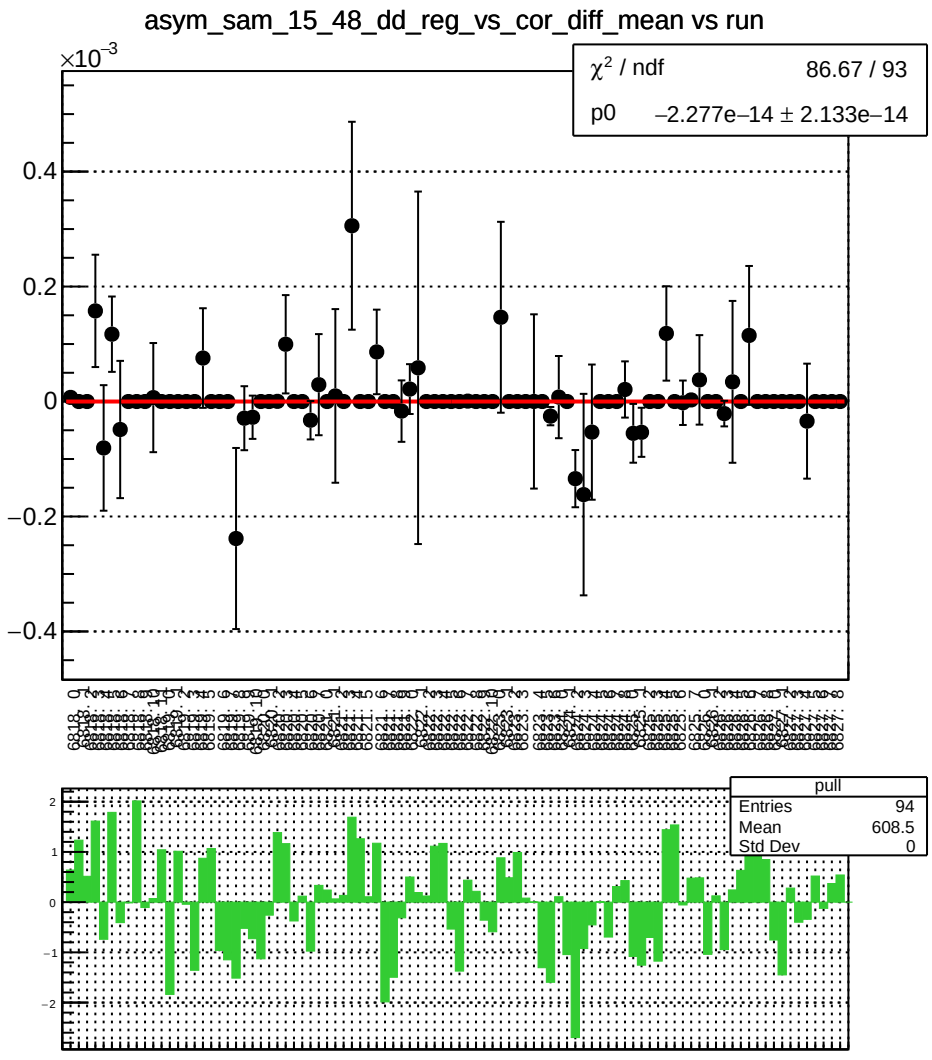

pull1D
Entries 94
Mean 0.006874
Std Dev 0.8943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

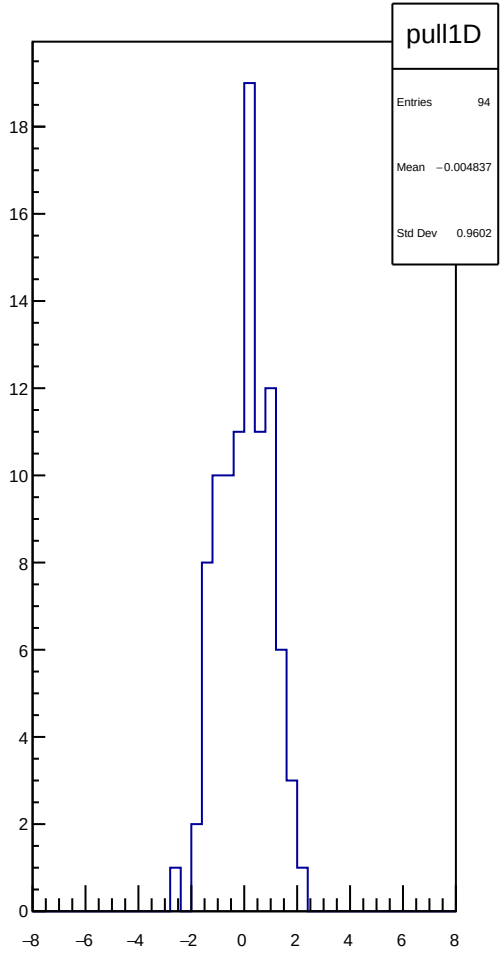

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2369 / 93
p0 477.3 ± 0.3565
520
510
500
490
480
470
460
450
440

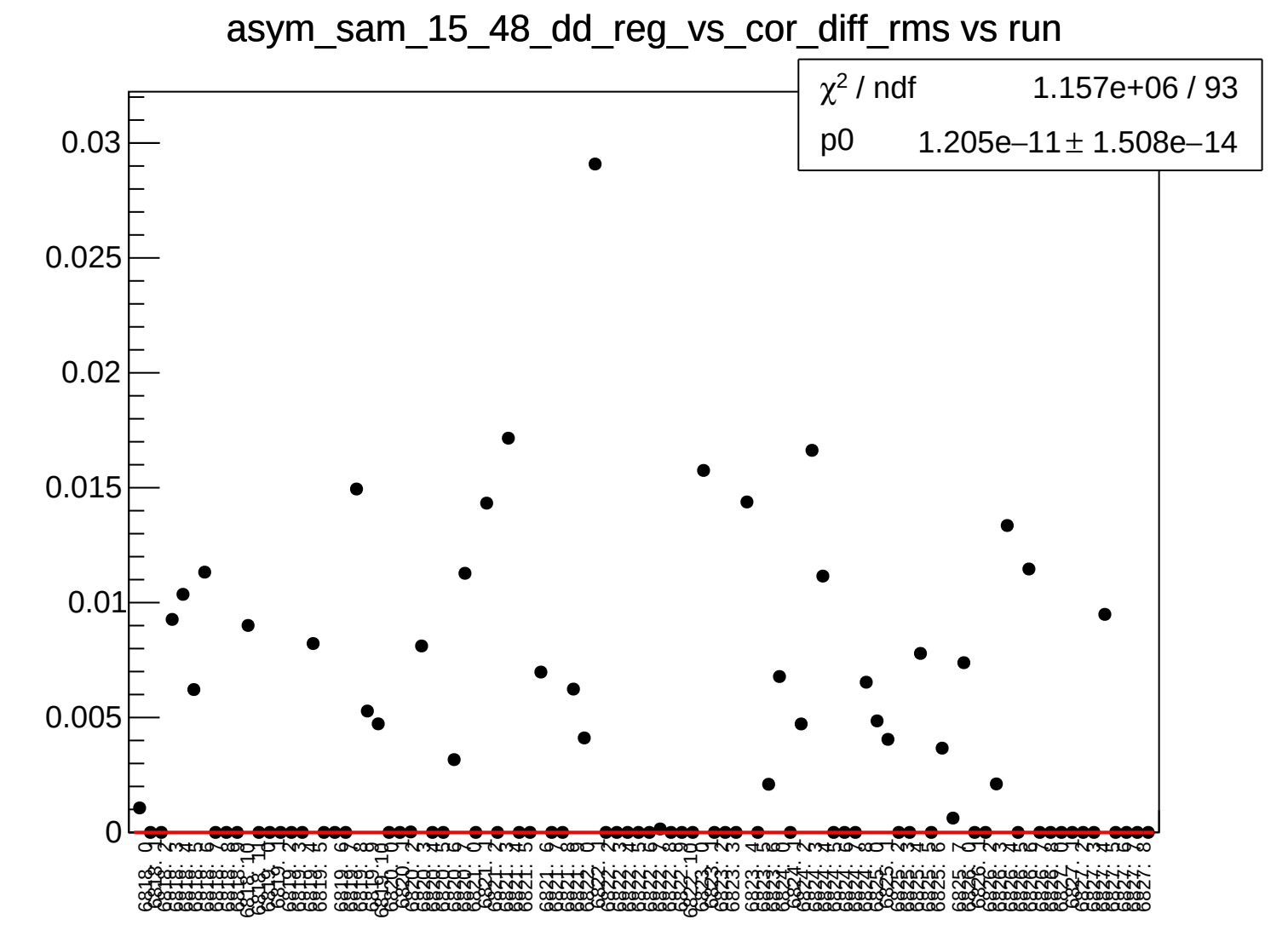

asym_sam_15_48_dd_mean vs run
χ² / ndf 72.99 / 93
p0 −348.7 ± 520.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −255.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

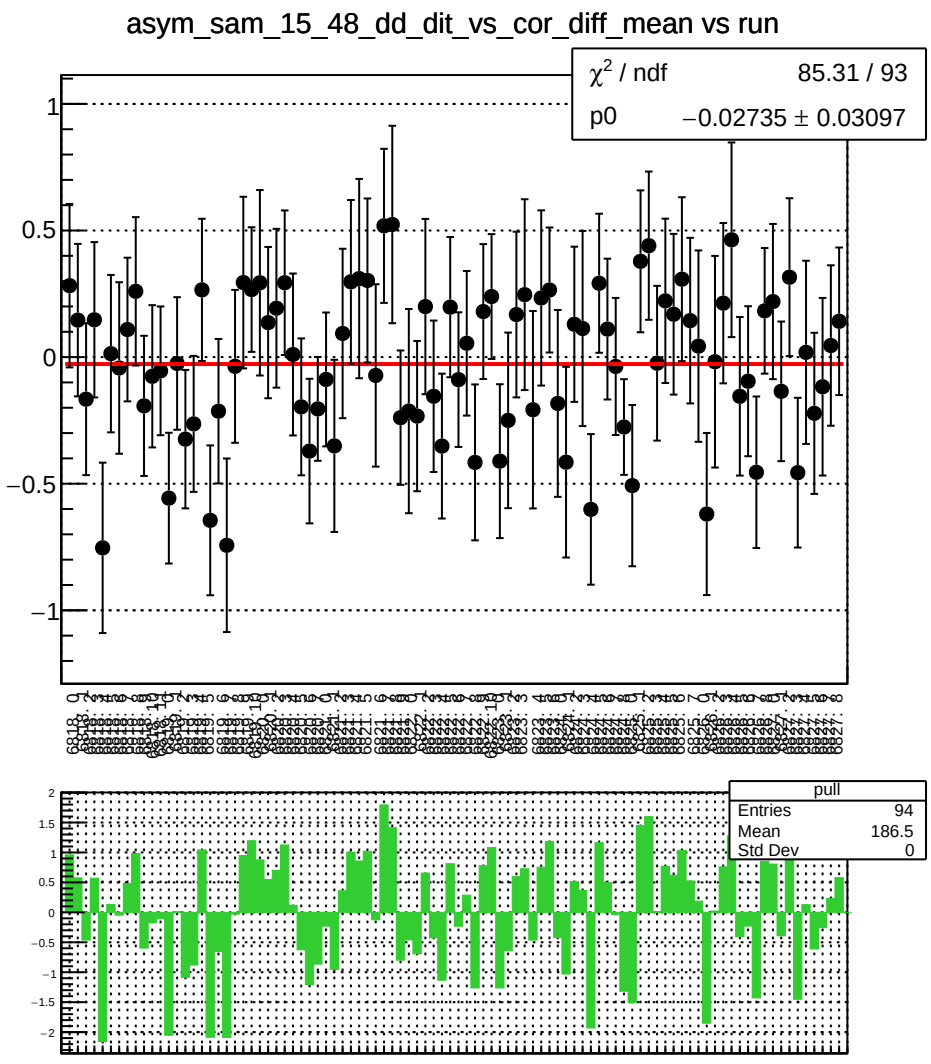

pull1D
Entries 94
Mean −0.007218
Std Dev 0.8812
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

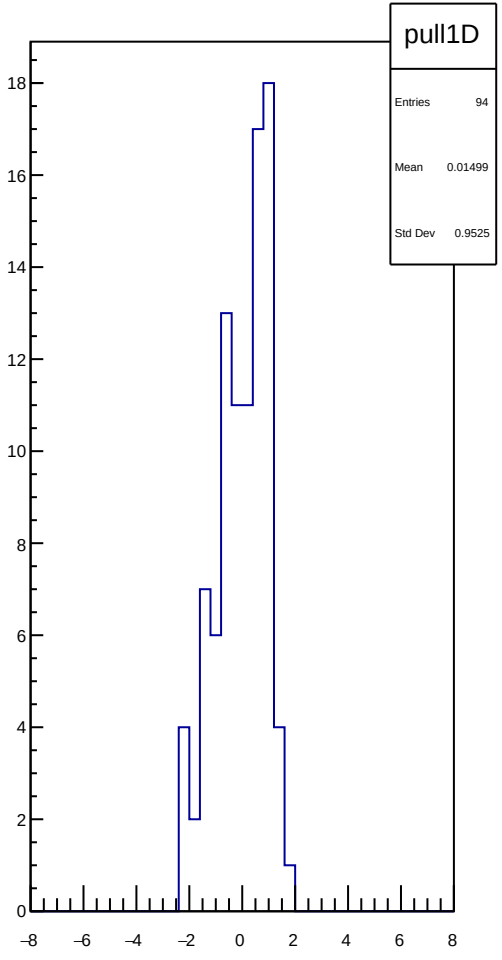

asym_sam_15_48_dd_rms vs run
χ² / ndf 3551 / 93
p0 492.8 ± 0.3682
540
520
500
480
460

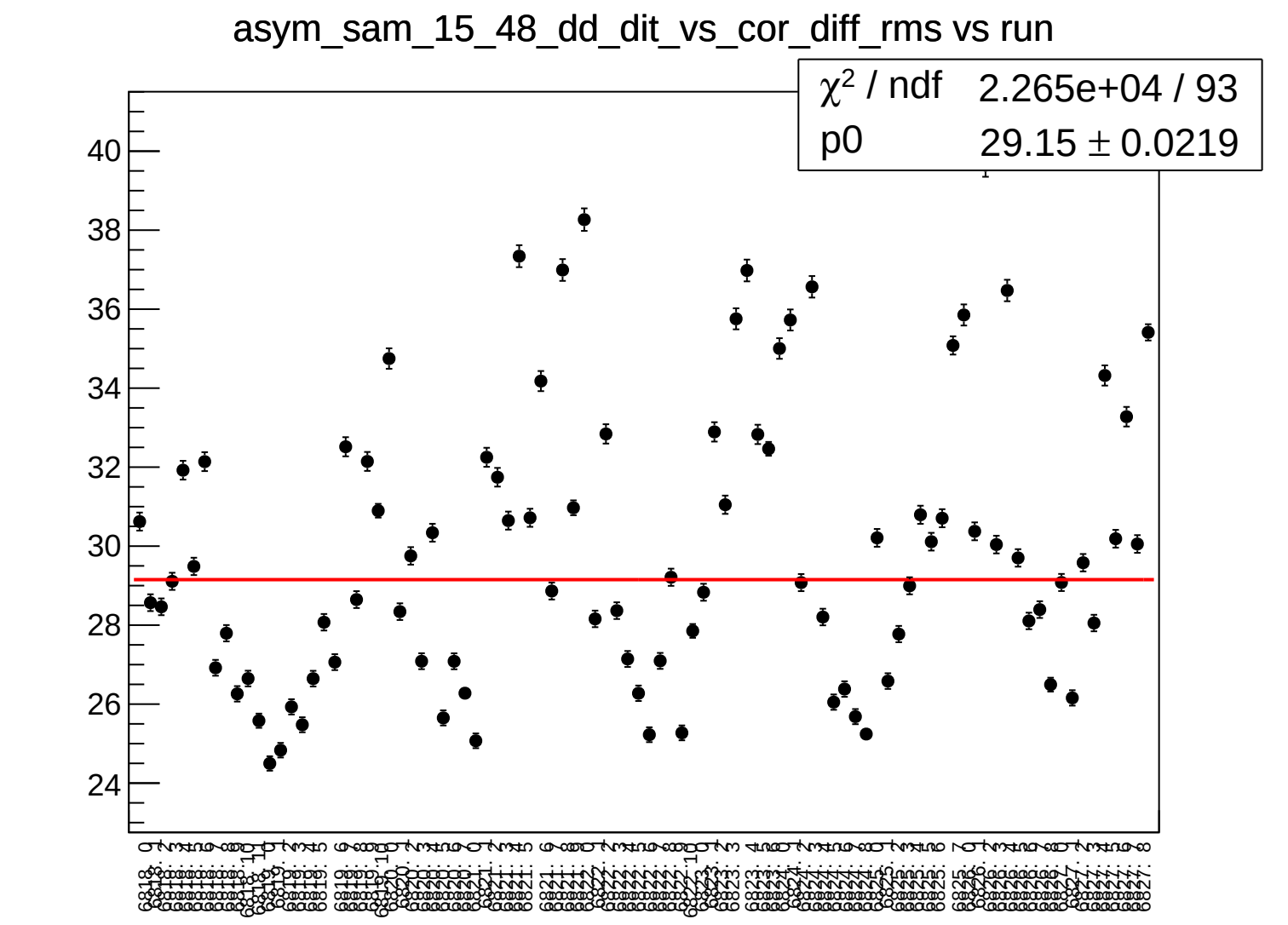

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 86.67 / 93
p0 −2.277e−14 ± 2.133e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean 608.5
Std Dev 0
2
1
0
−1
−2

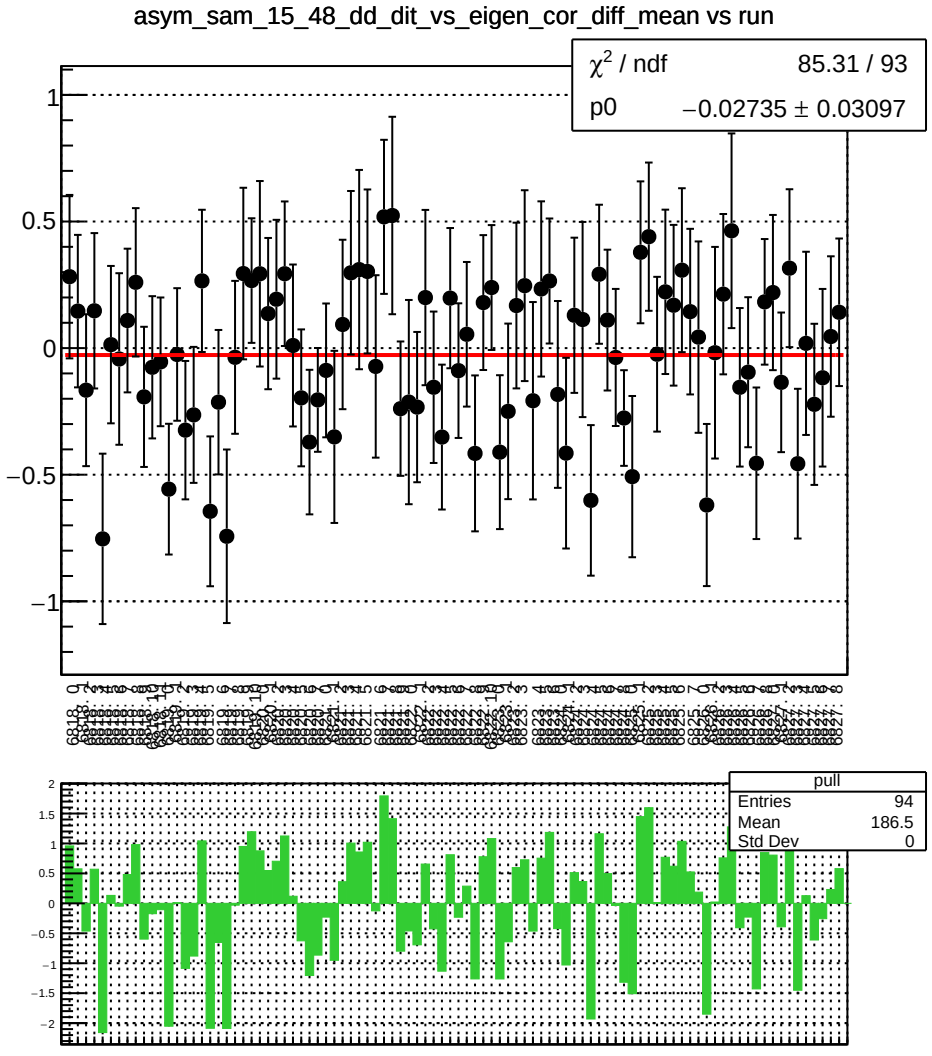

pull1D
Entries 94
Mean −0.004837
Std Dev 0.9602
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

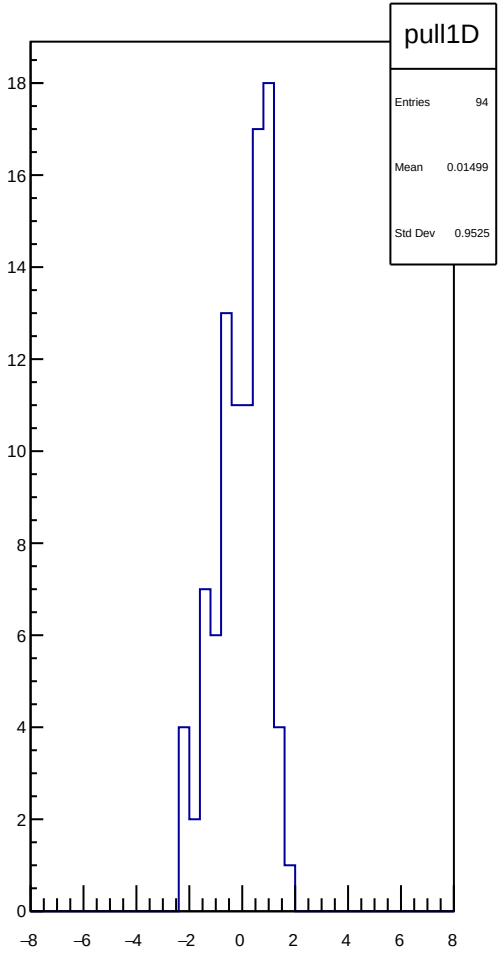

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.157e+06 / 93
p0 1.205e−11 ± 1.508e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

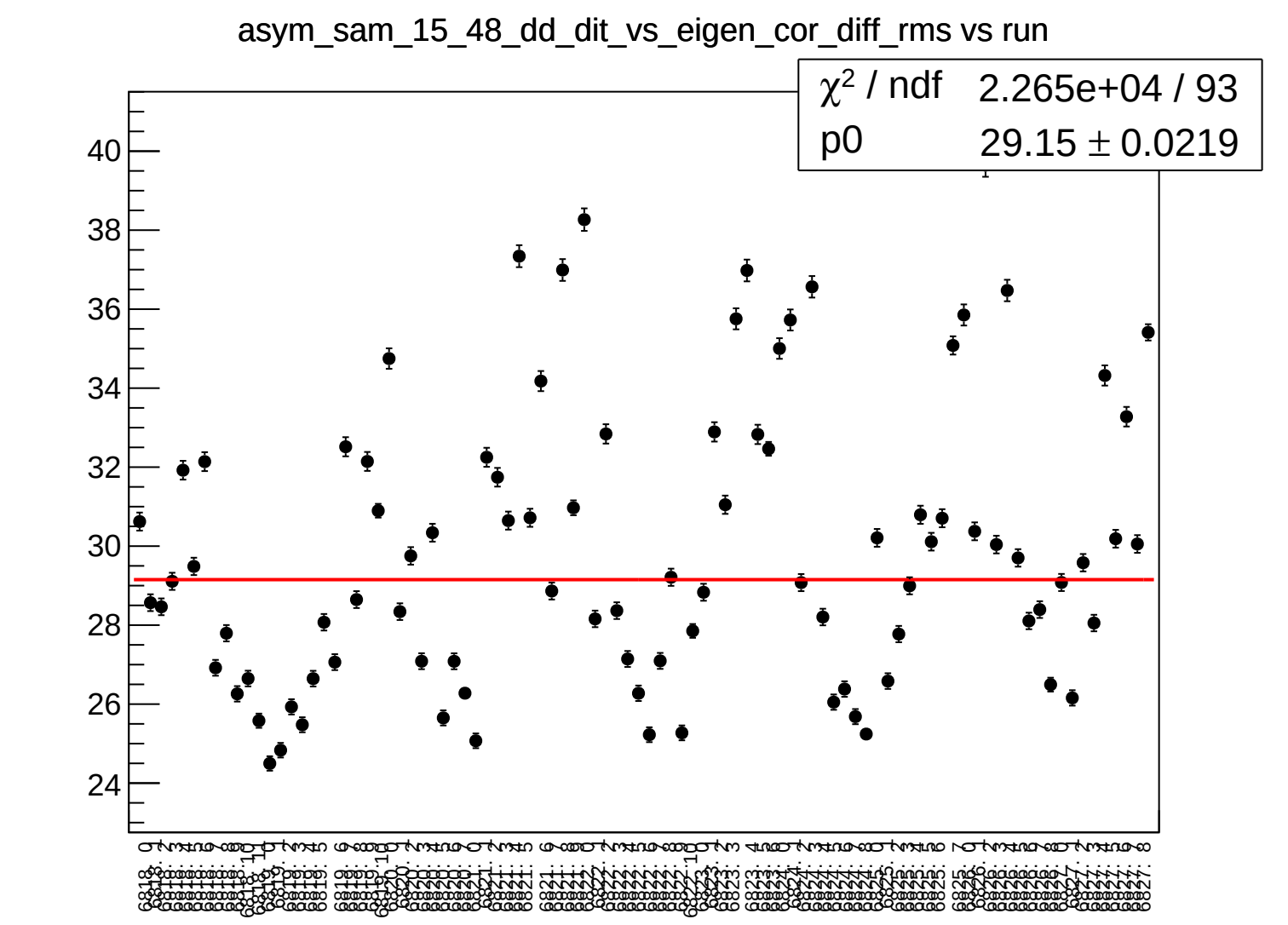

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 93
p0 −0.02735 ± 0.03097
pull
Entries 94
Mean 186.5
Std Dev 0

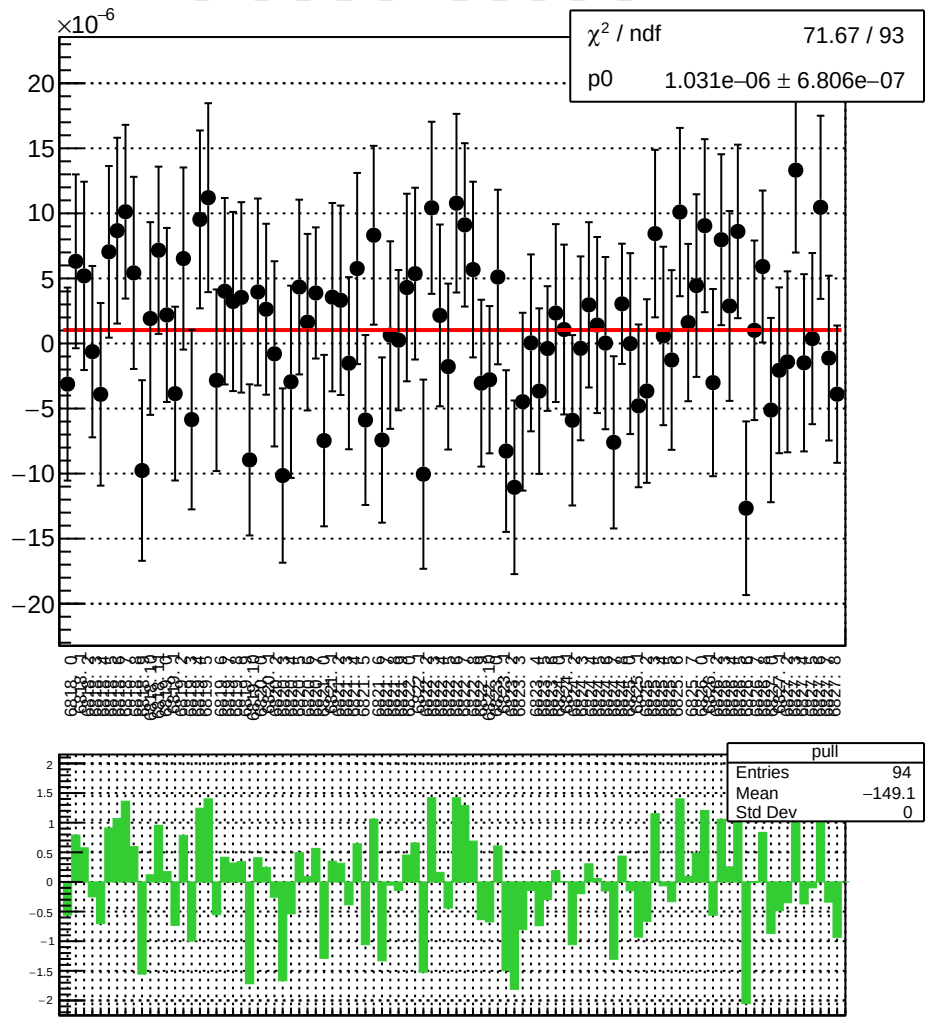

pull1D
Entries 94
Mean 0.01499
Std Dev 0.9525

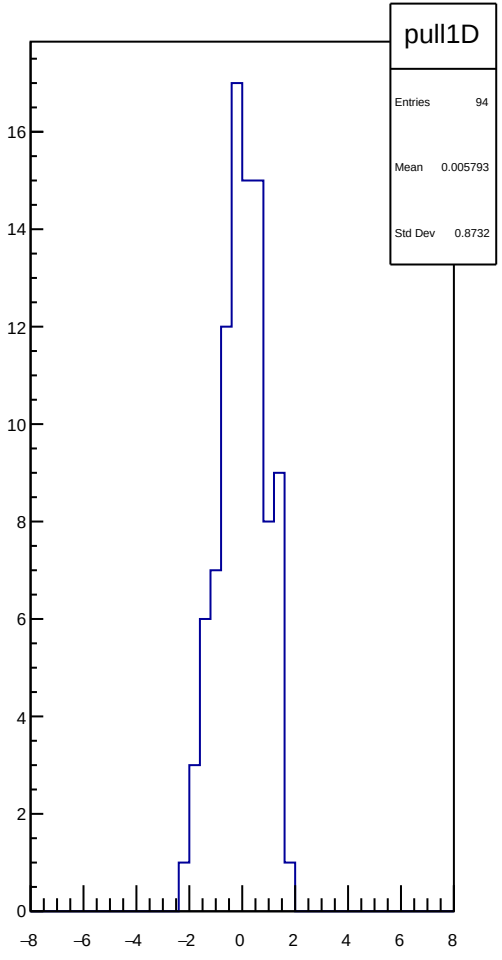

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 93
p0 29.15 ± 0.0219
40
38
36
34
32
30
28
26
24

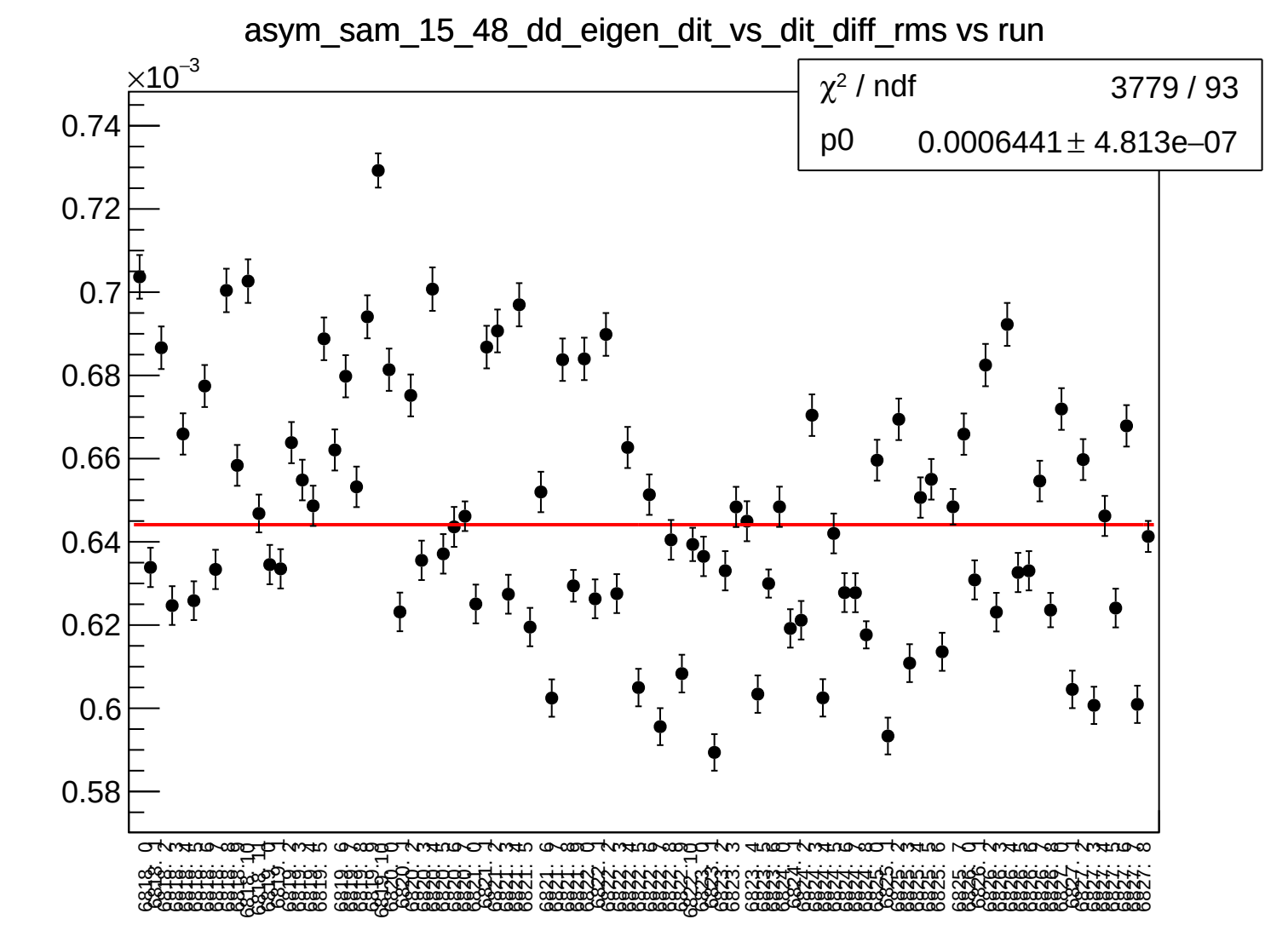

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.31 / 93
p0 −0.02735 ± 0.03097
pull
Entries 94
Mean 186.5
Std Dev 0

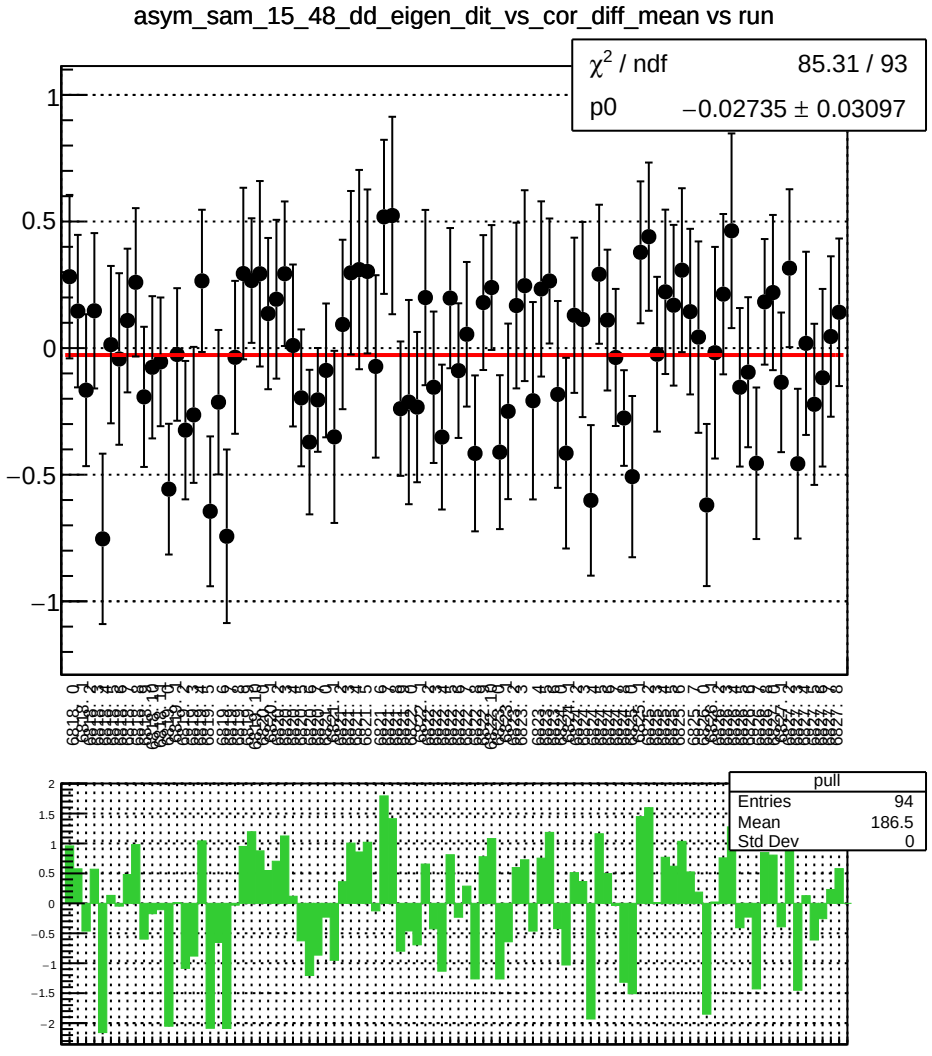

pull1D
Entries 94
Mean 0.01499
Std Dev 0.9525

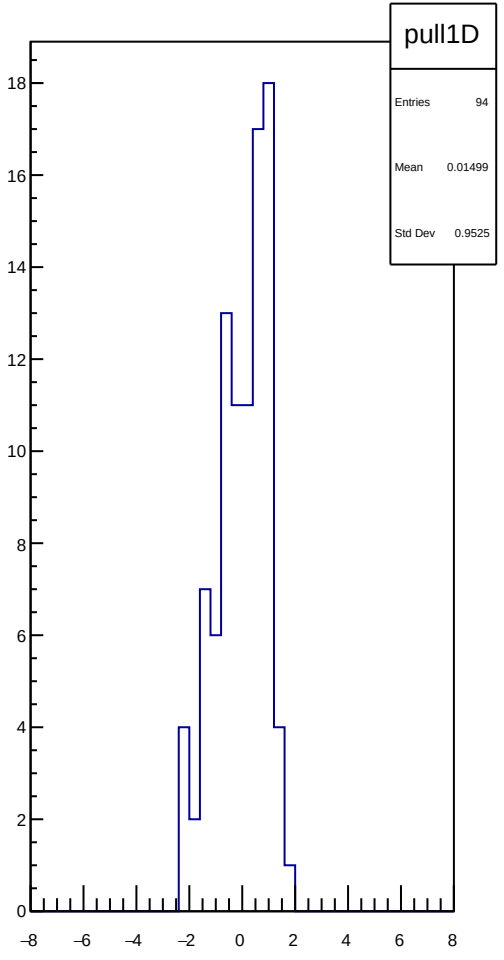

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 93
p0 29.15 ± 0.0219
40
38
36
34
32
30
28
26
24

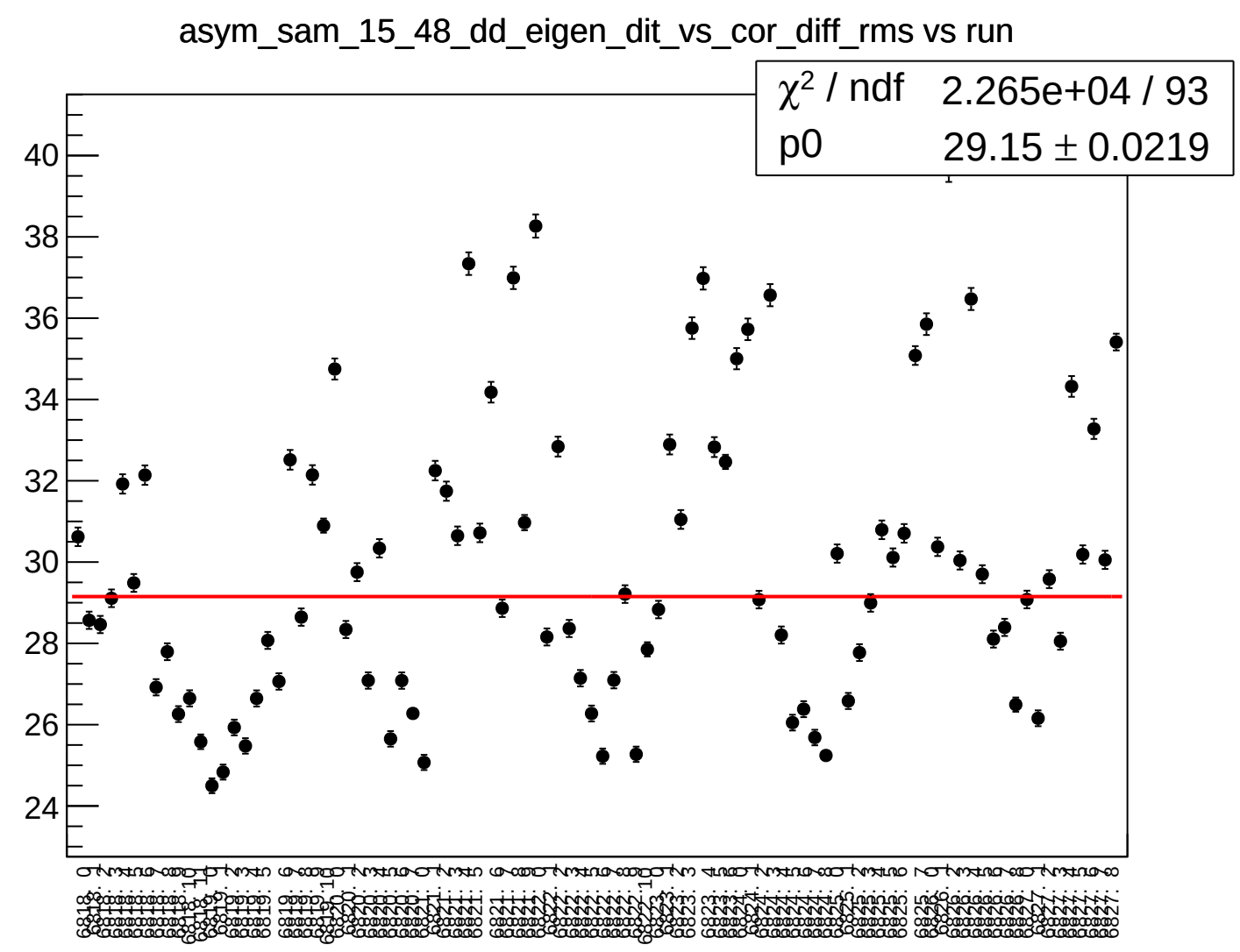

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 71.67 / 93
p0 1.031e−06 ± 6.806e−07
pull
Entries 94
Mean −149.1
Std Dev 0

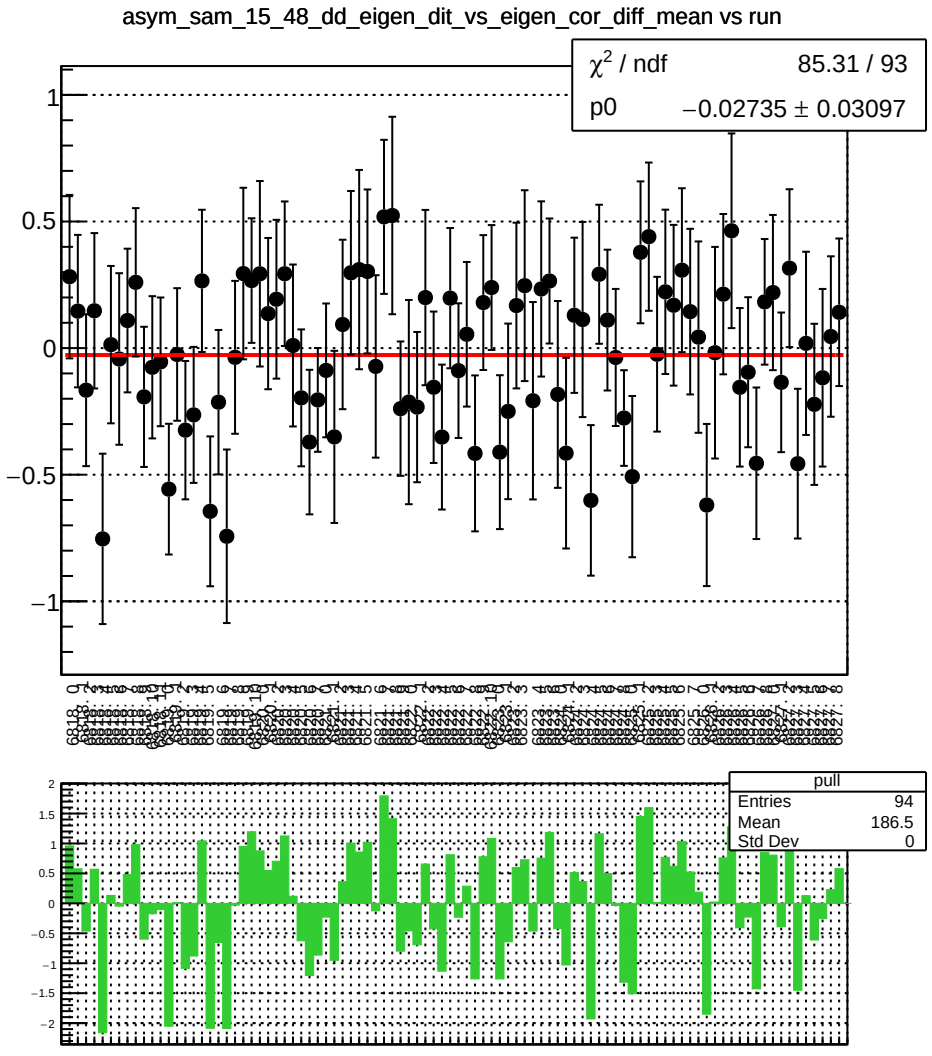

pull1D
Entries 94
Mean 0.005793
Std Dev 0.8732

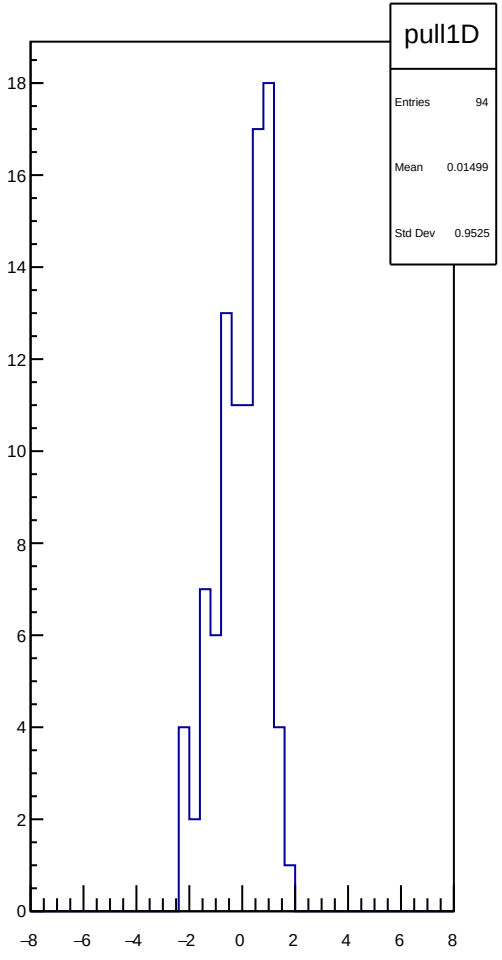

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3779 / 93
p0 0.0006441 ± 4.813e−07
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58

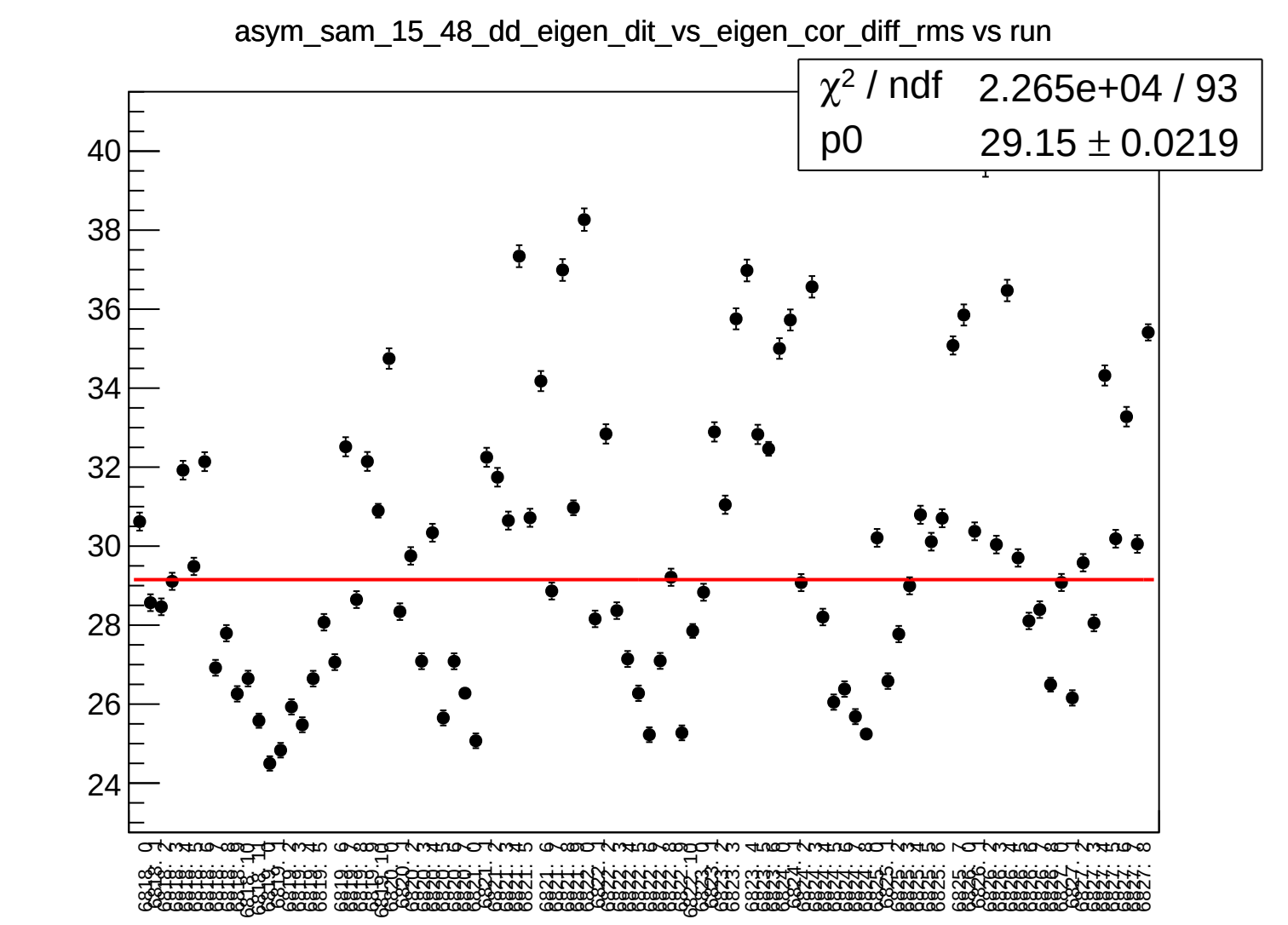

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.31 / 93
p0 −0.02735 ± 0.03097
pull
Entries 94
Mean 186.5
Std Dev 0

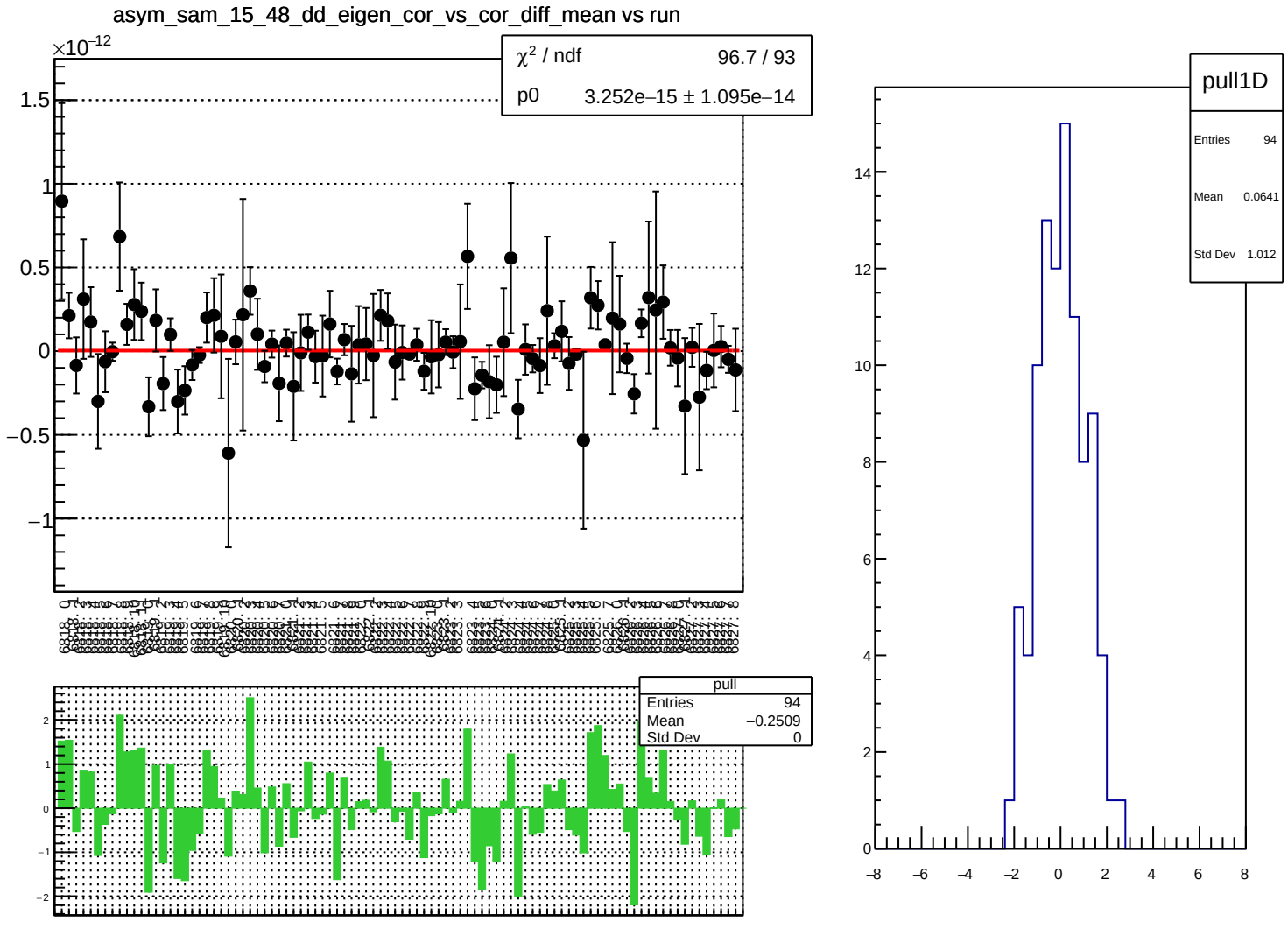

pull1D
Entries 94
Mean 0.01499
Std Dev 0.9525

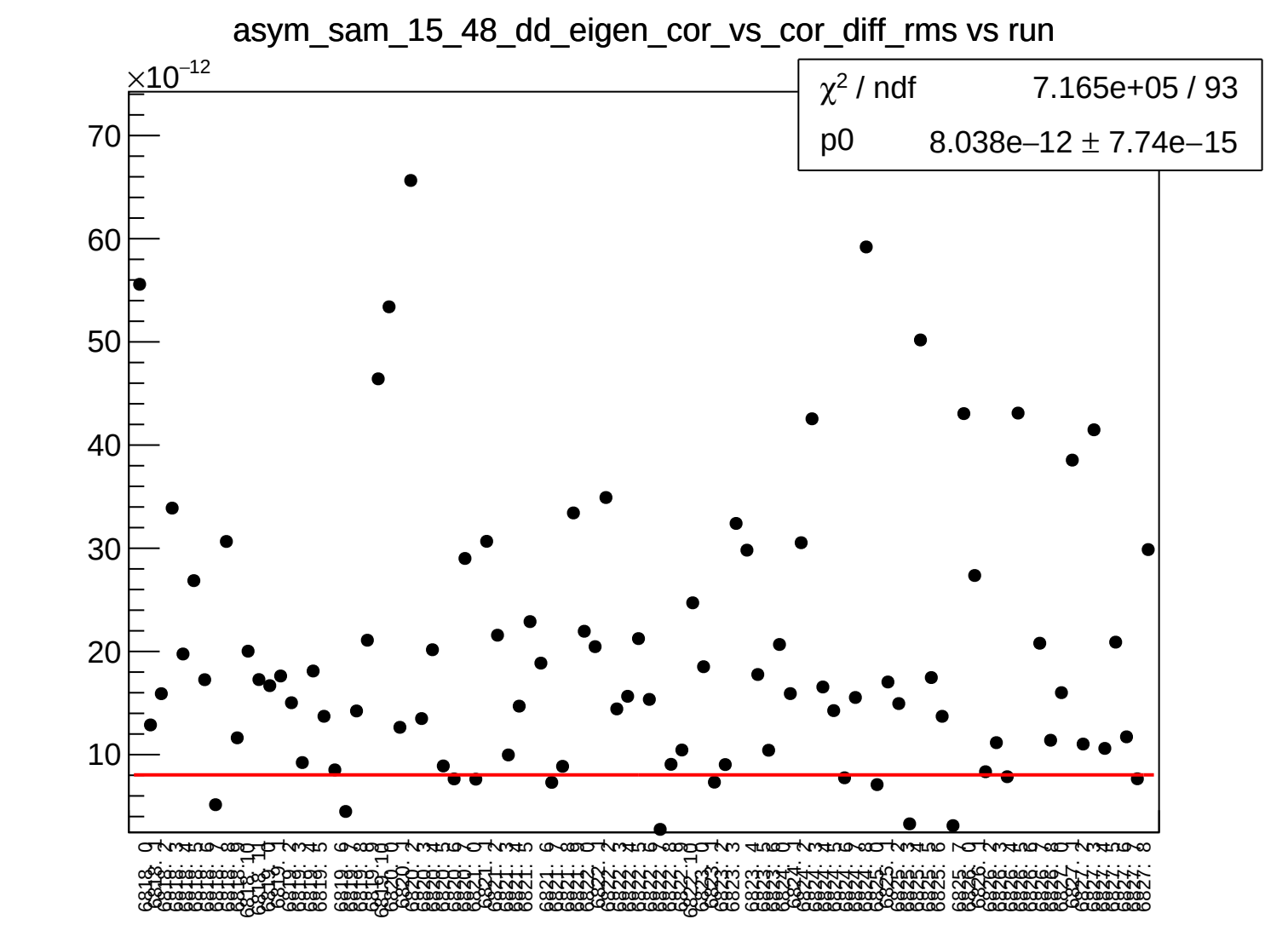

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 93
p0 29.15 ± 0.0219
40
38
36
34
32
30
28
26
24

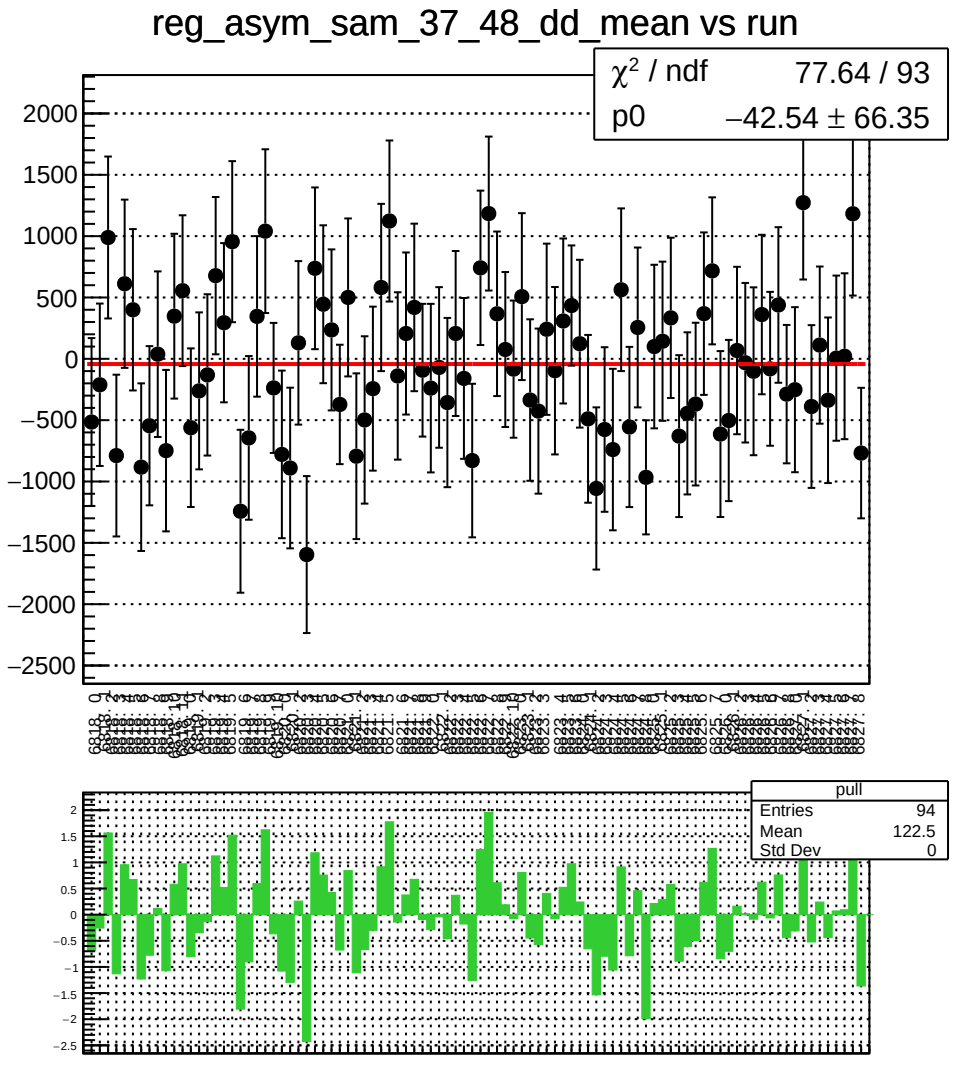

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.31 / 93
p0 −0.02735 ± 0.03097
pull
Entries 94
Mean 186.5
Std Dev 0

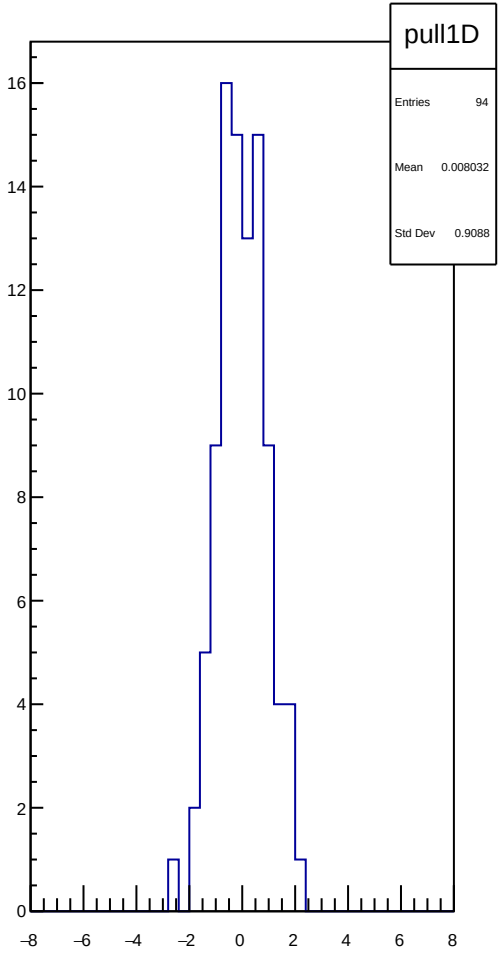

pull1D
Entries 94
Mean 0.01499
Std Dev 0.9525

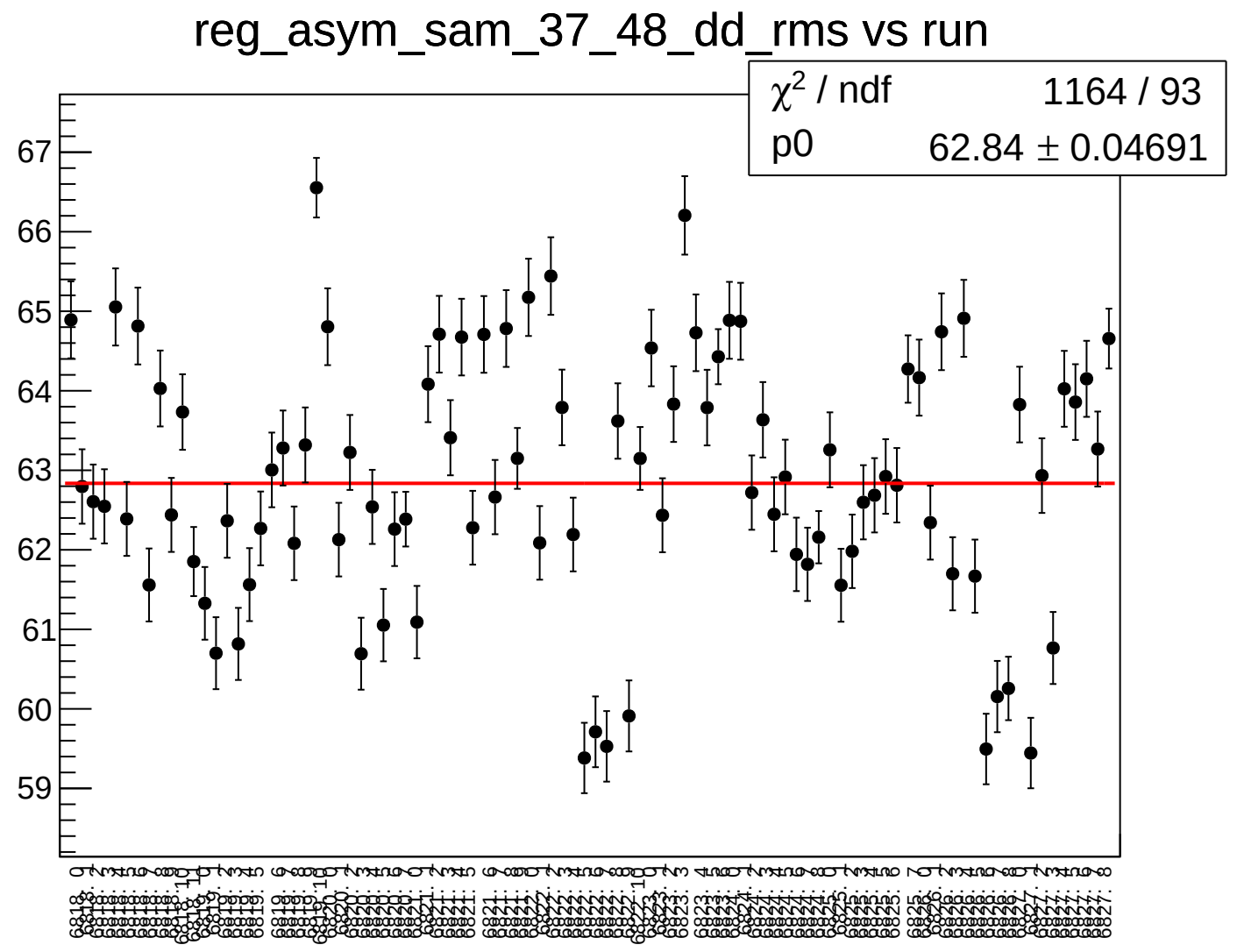

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.265e+04 / 93
p0 29.15 ± 0.0219
40
38
36
34
32
30
28
26
24

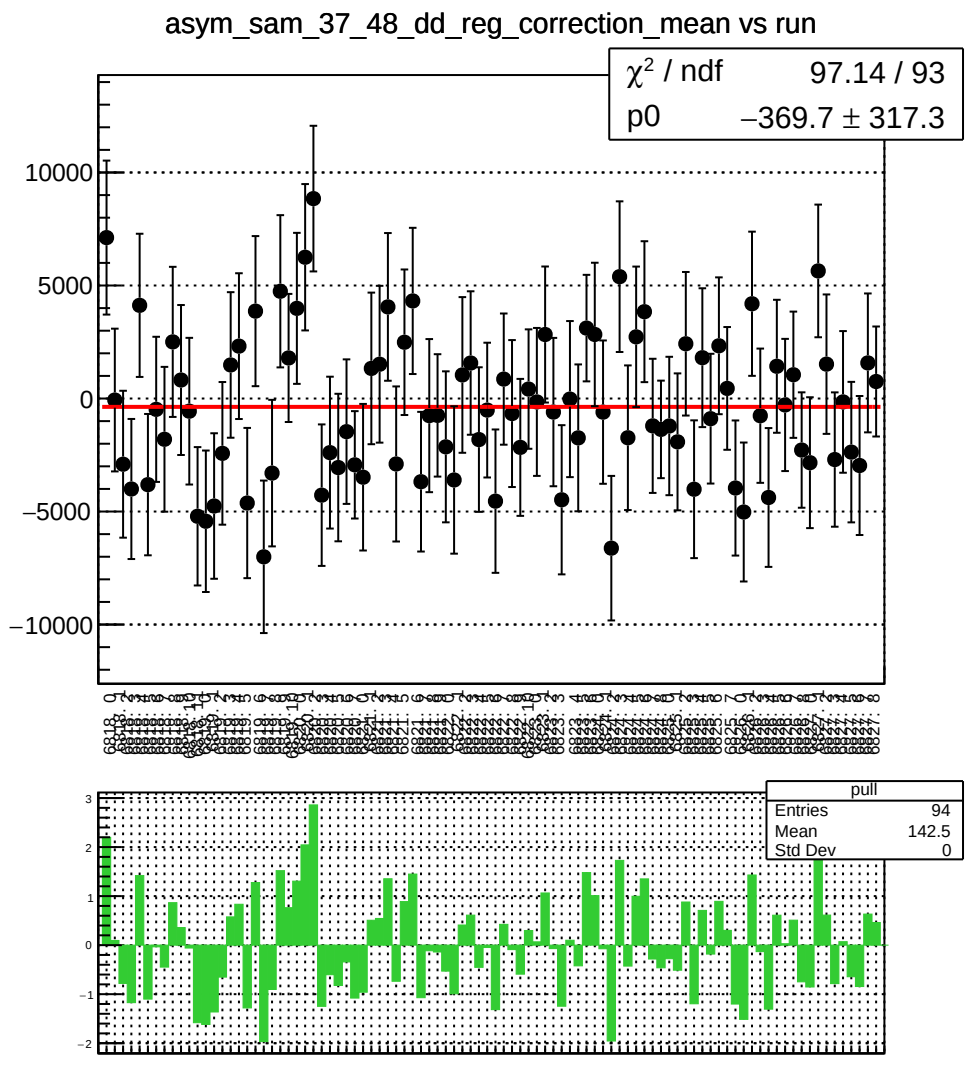

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.7 / 93
p0 3.252e−15 ± 1.095e−14
pull
Entries 94
Mean −0.2509
Std Dev 0
pull1D
Entries 94
Mean 0.0641
Std Dev 1.012

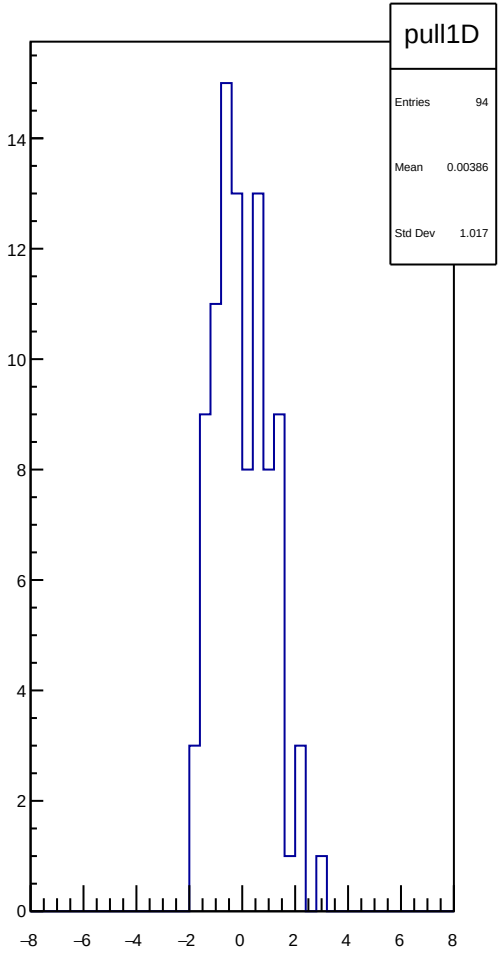

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.165e+05 / 93
p0 8.038e−12 ± 7.74e−15
70
60
50
40
30
20
10

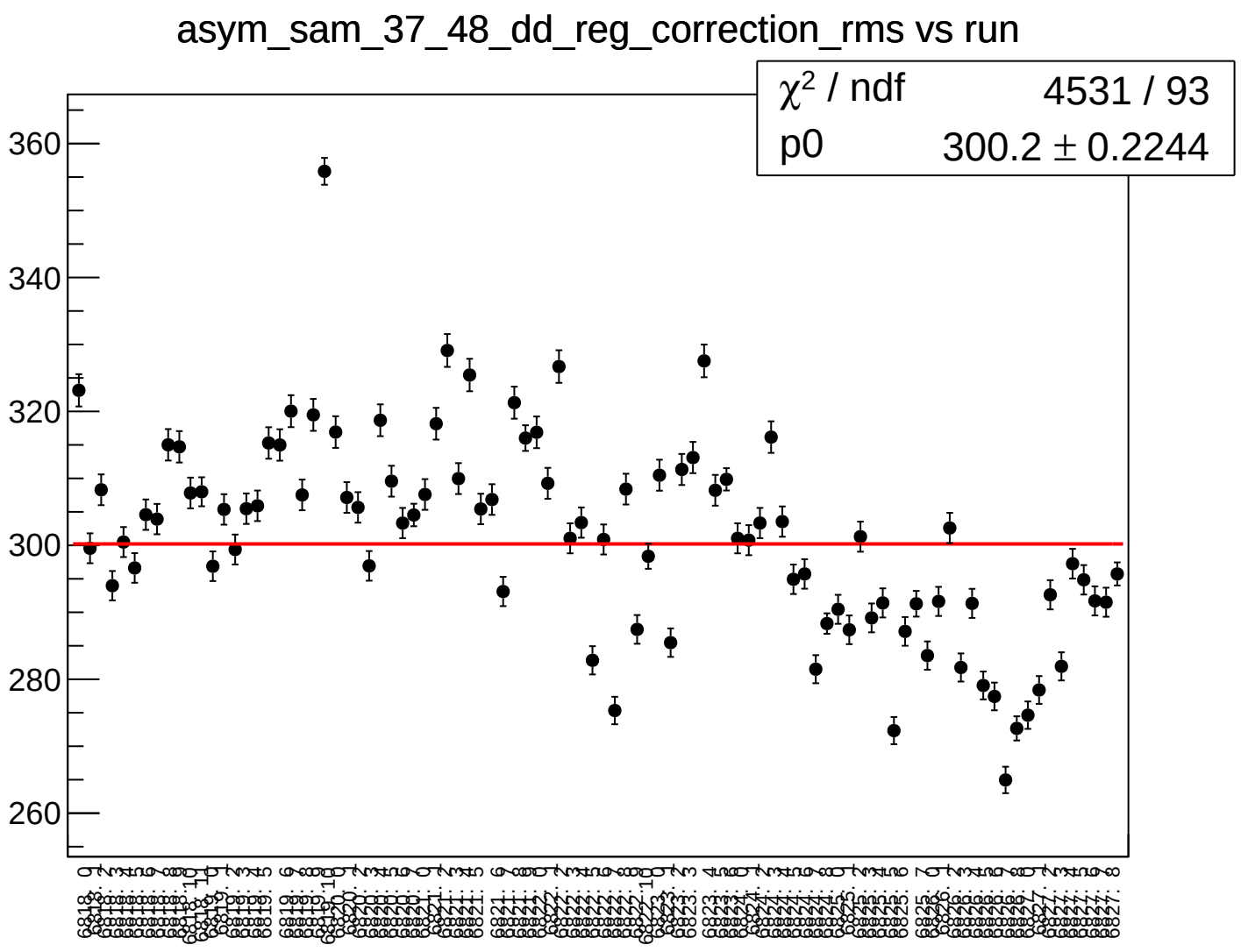

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.64 / 93
p0 −42.54 ± 66.35
pull
Entries 94
Mean 122.5
Std Dev 0

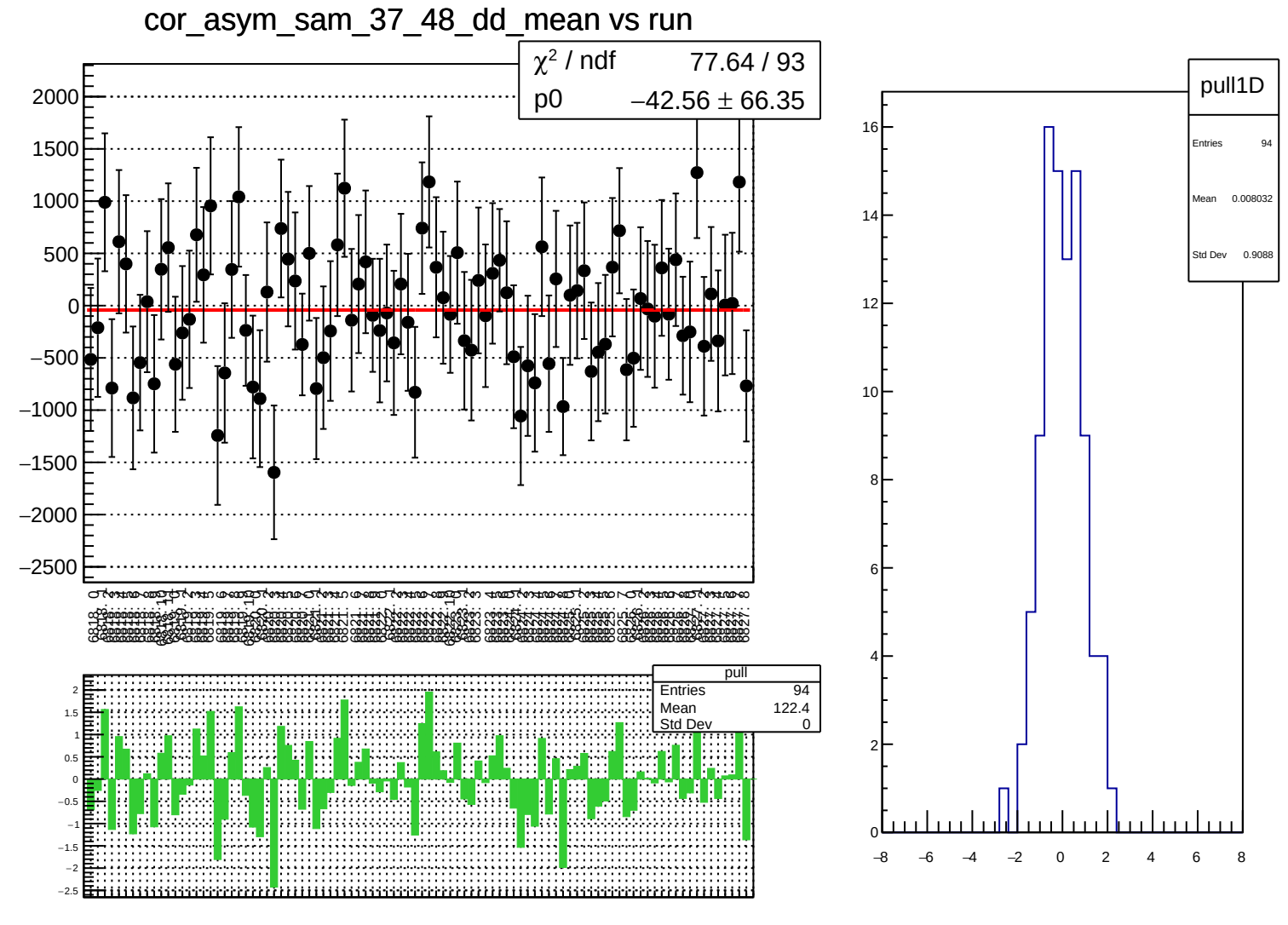

pull1D
Entries 94
Mean 0.008032
Std Dev 0.9088

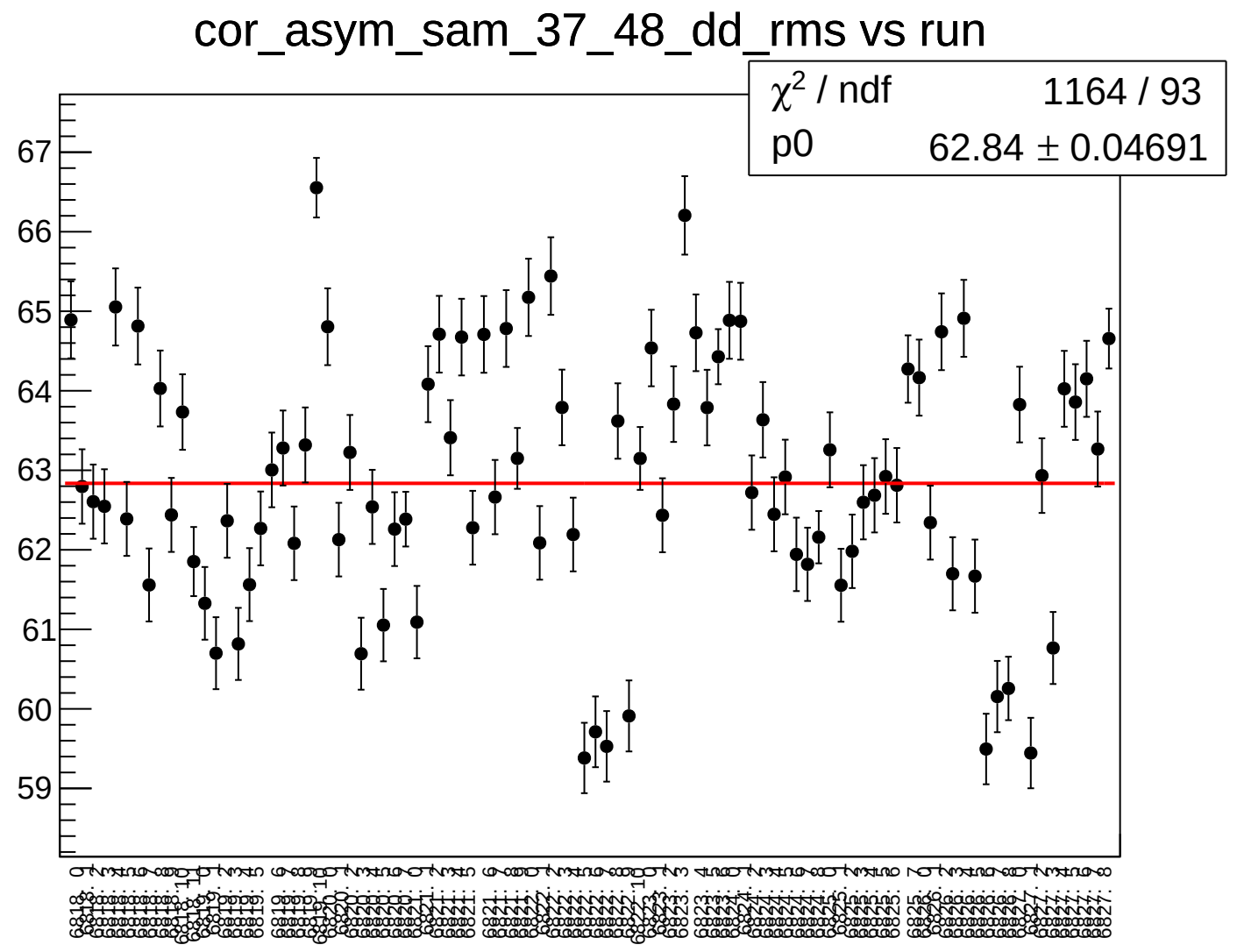

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 1164 / 93
p0 62.84 ± 0.04691
67
66
65
64
63
62
61
60
59

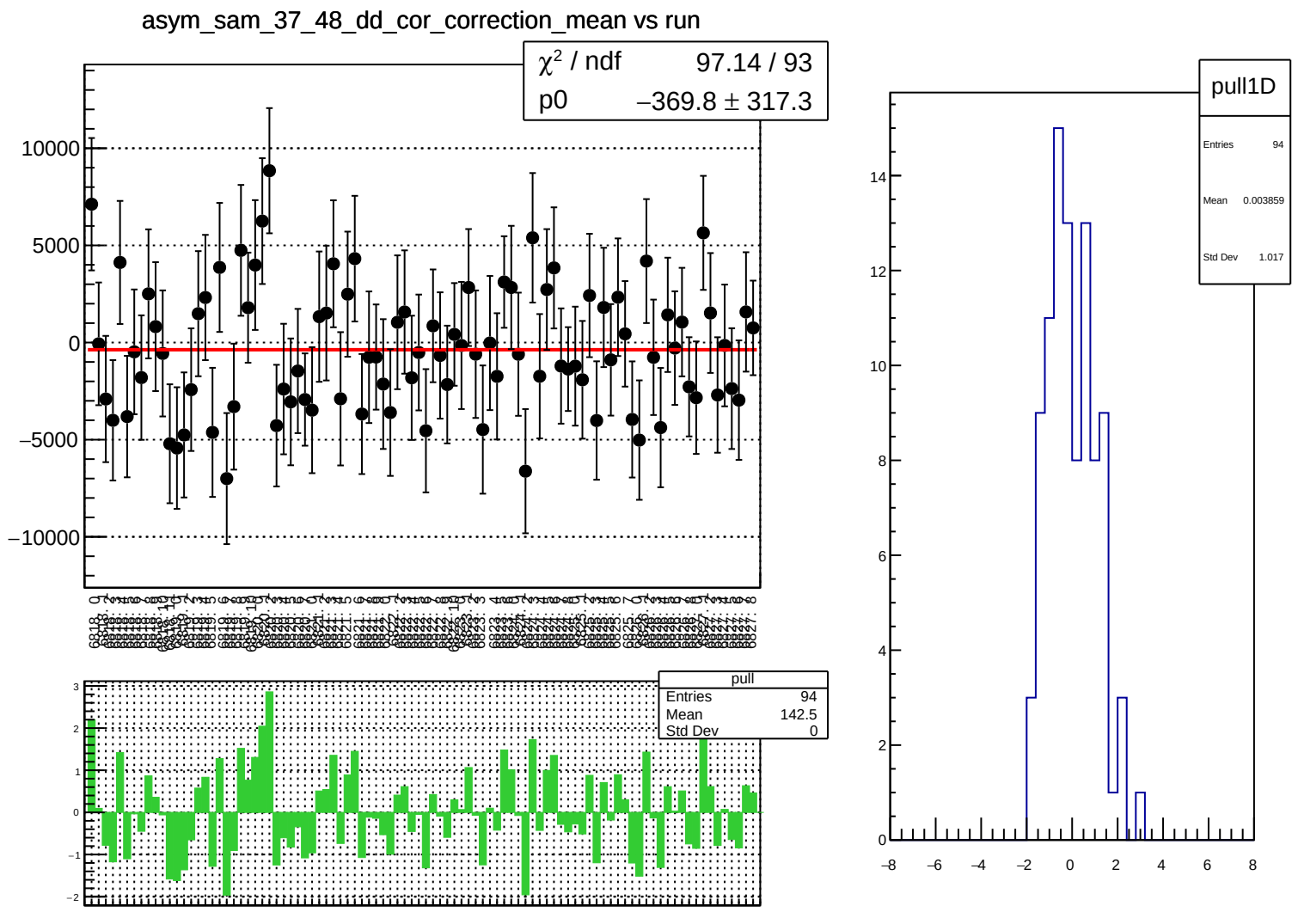

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 97.14 / 93
p0 −369.7 ± 317.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 142.5
Std Dev 0
3
2
1
0
−1
−2

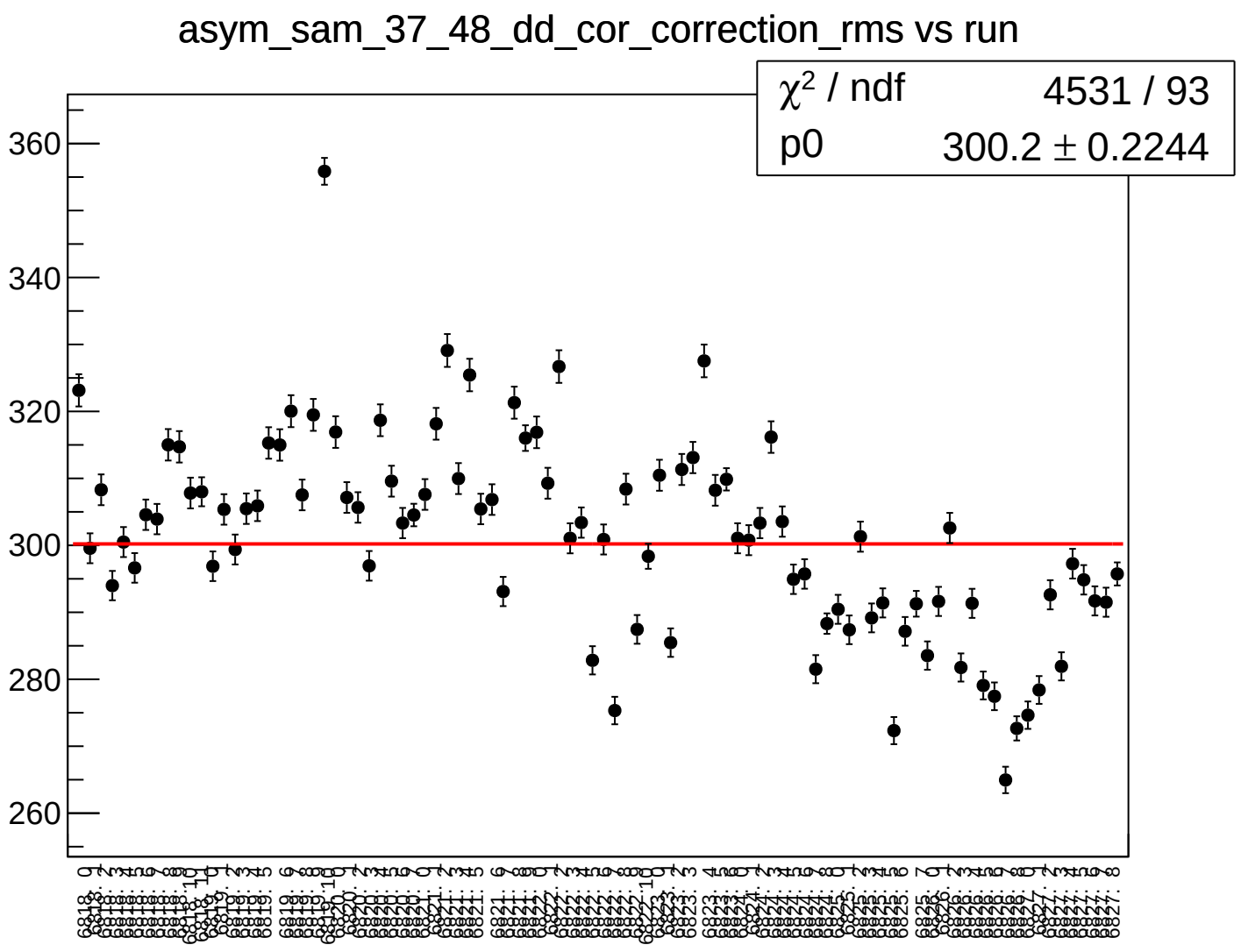

pull1D
Entries 94
Mean 0.00386
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

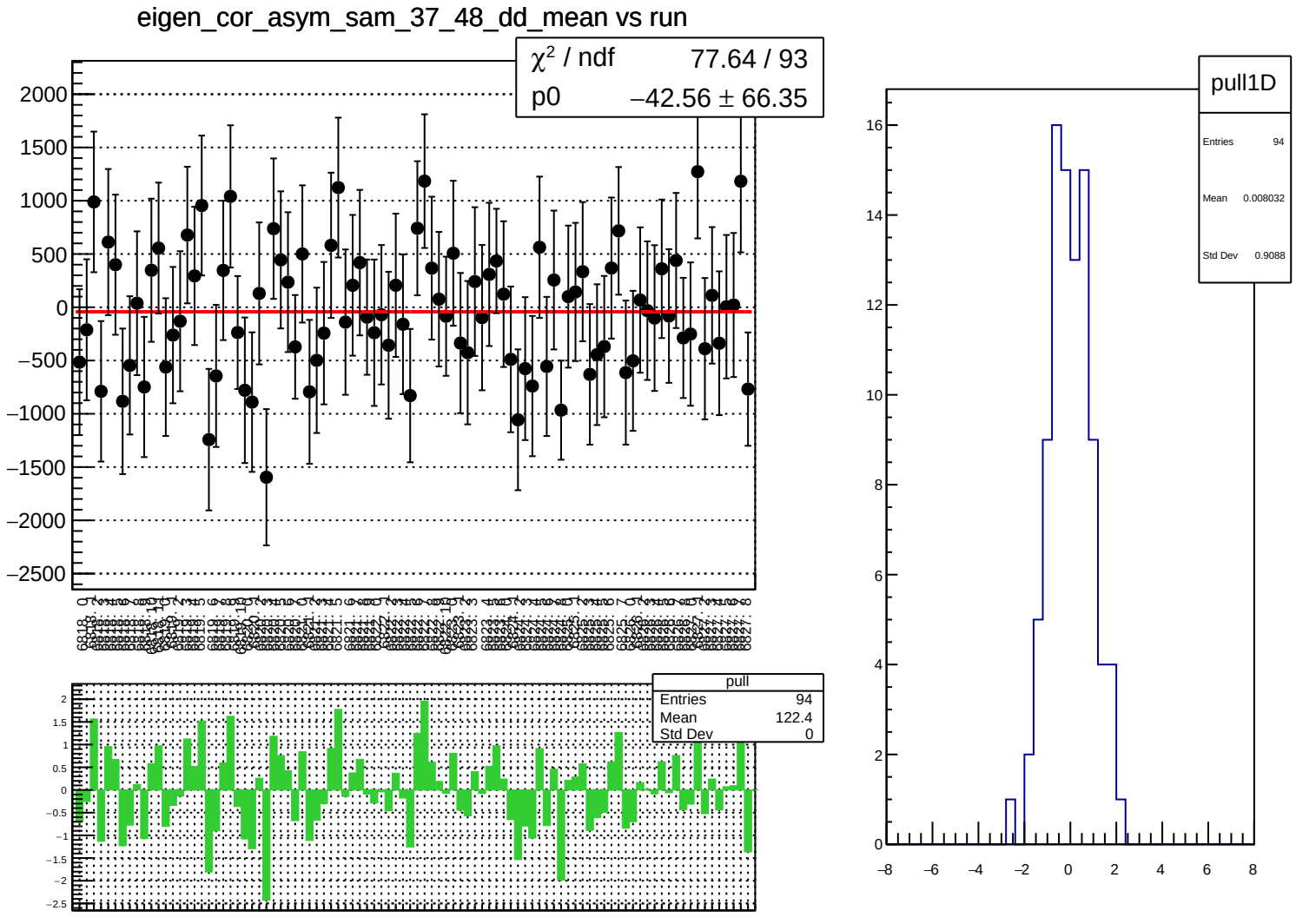

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 4531 / 93
p0 300.2 ± 0.2244
360
340
320
300
280
260

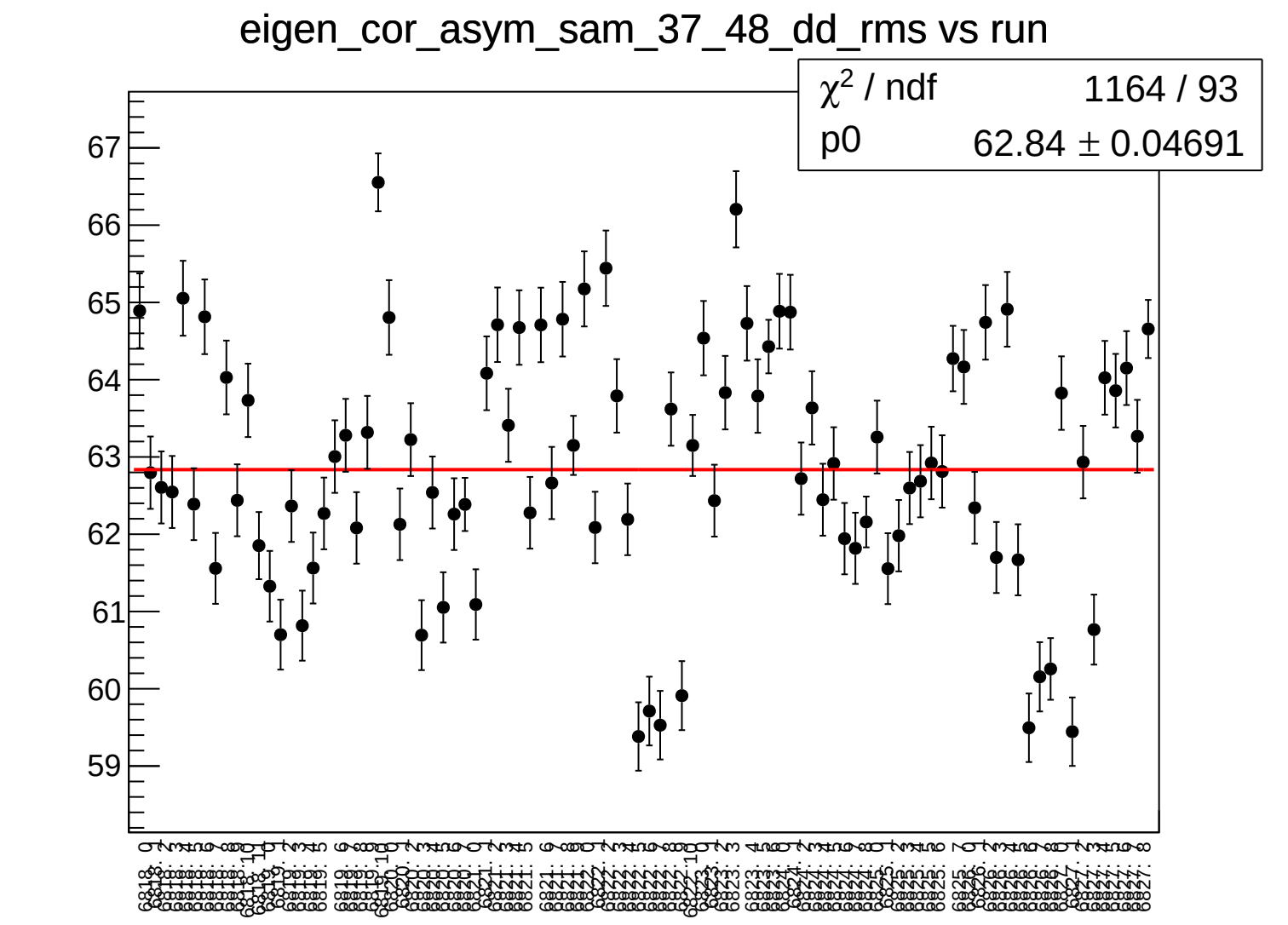

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.64 / 93
p0 −42.56 ± 66.35
pull
Entries 94
Mean 122.4
Std Dev 0
pull1D
Entries 94
Mean 0.008032
Std Dev 0.9088

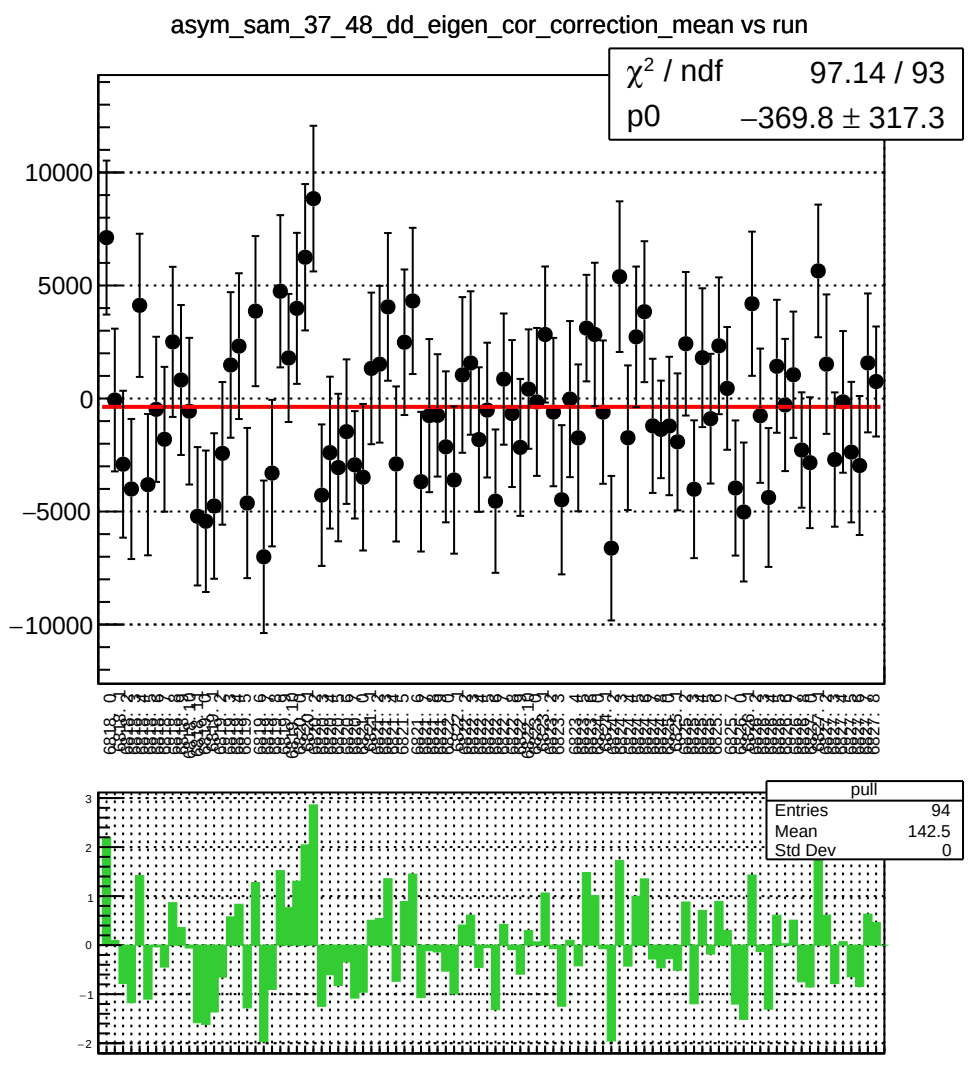

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1164 / 93
p0 62.84 ± 0.04691
67
66
65
64
63
62
61
60
59

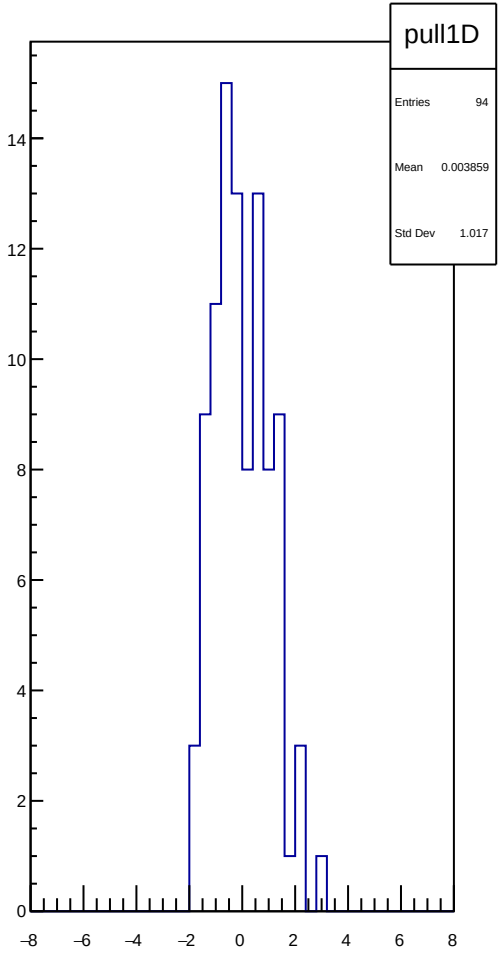

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 97.14 / 93
p0 −369.8 ± 317.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 142.5
Std Dev 0
pull1D
Entries 94
Mean 0.003859
Std Dev 1.017

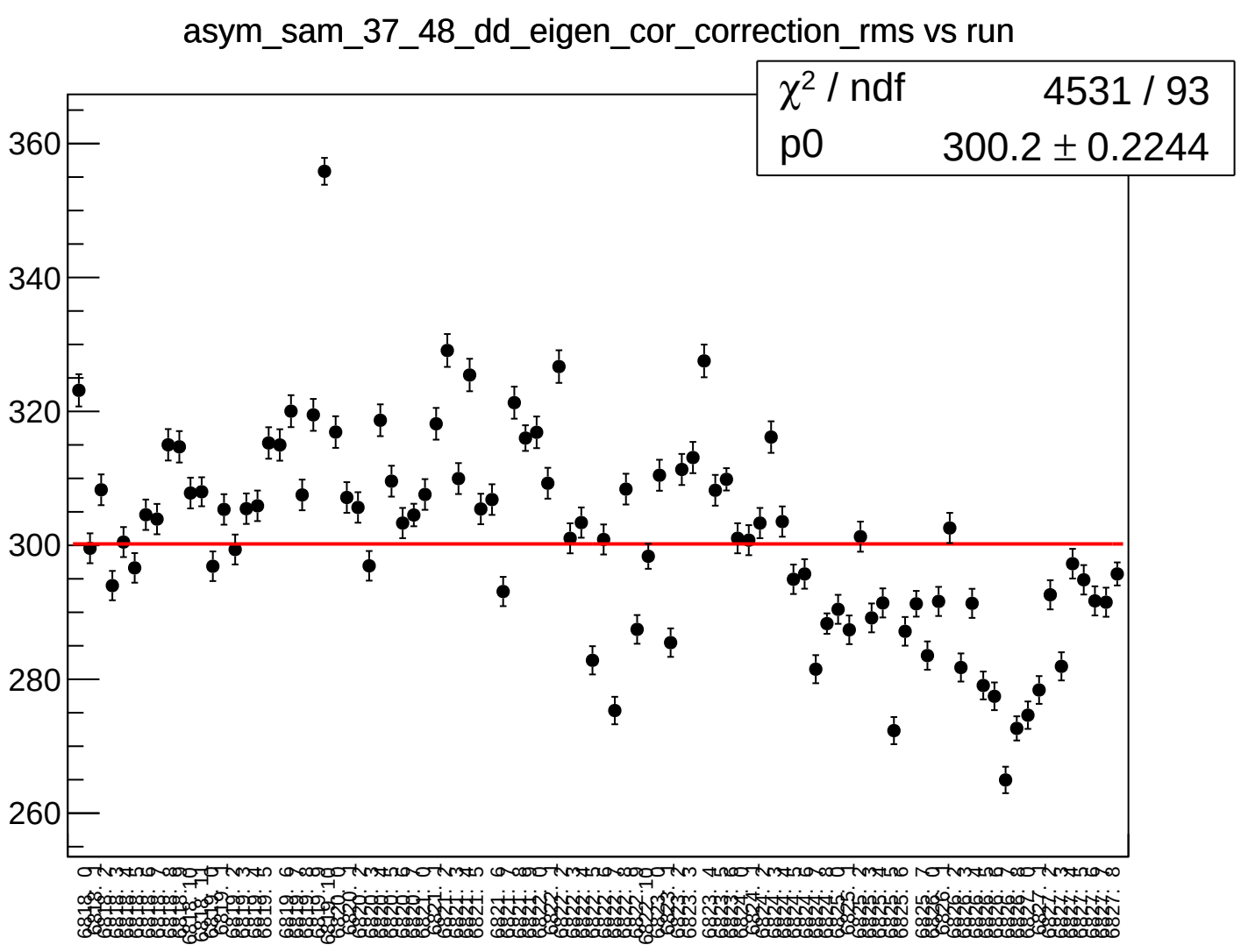

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 4531 / 93
p0 300.2 ± 0.2244
360
340
320
300
280
260

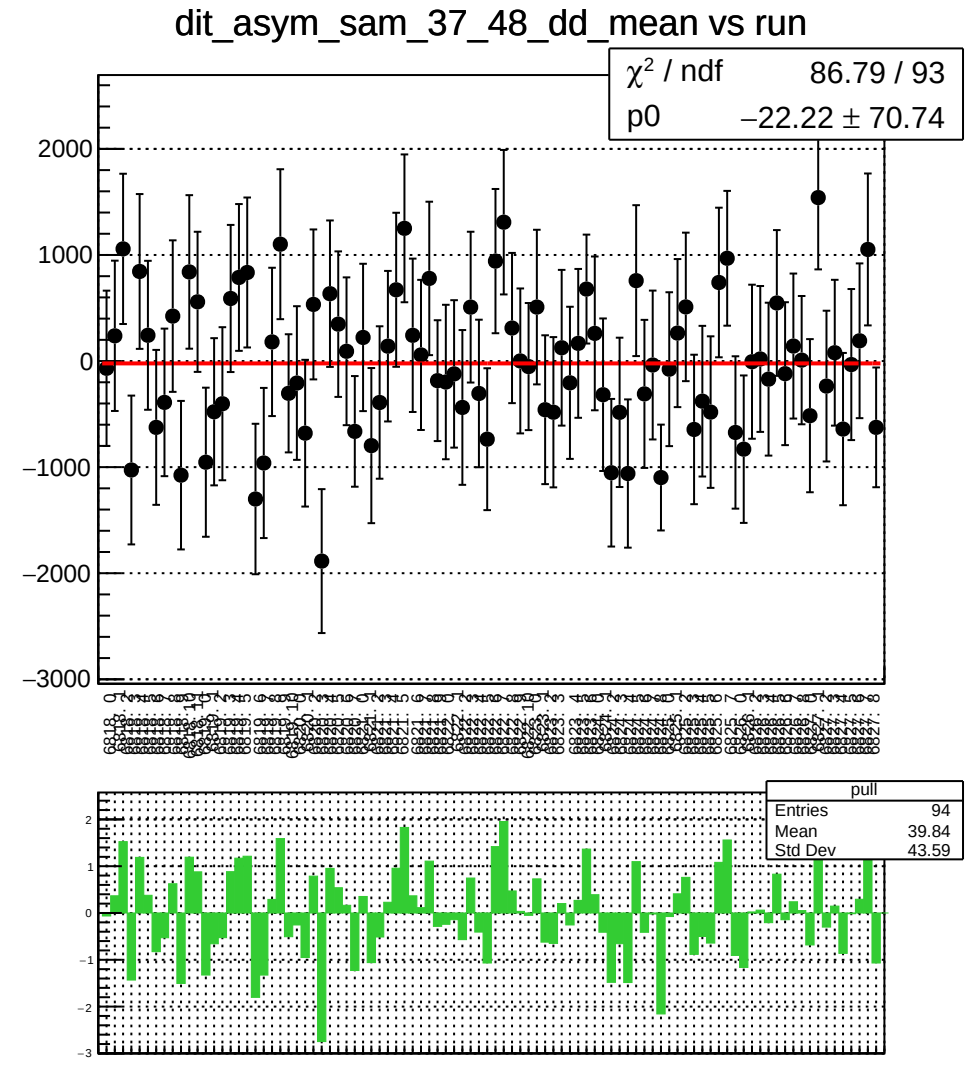

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 77.64 / 93
p0 −42.56 ± 66.35
pull
Entries 94
Mean 122.4
Std Dev 0
pull1D
Entries 94
Mean 0.008032
Std Dev 0.9088

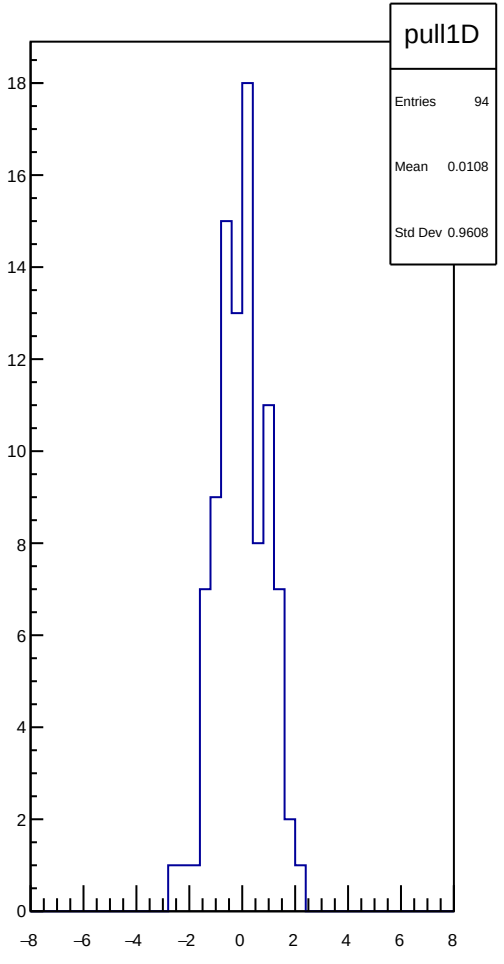

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 1164 / 93
p0 62.84 ± 0.04691
67
66
65
64
63
62
61
60
59

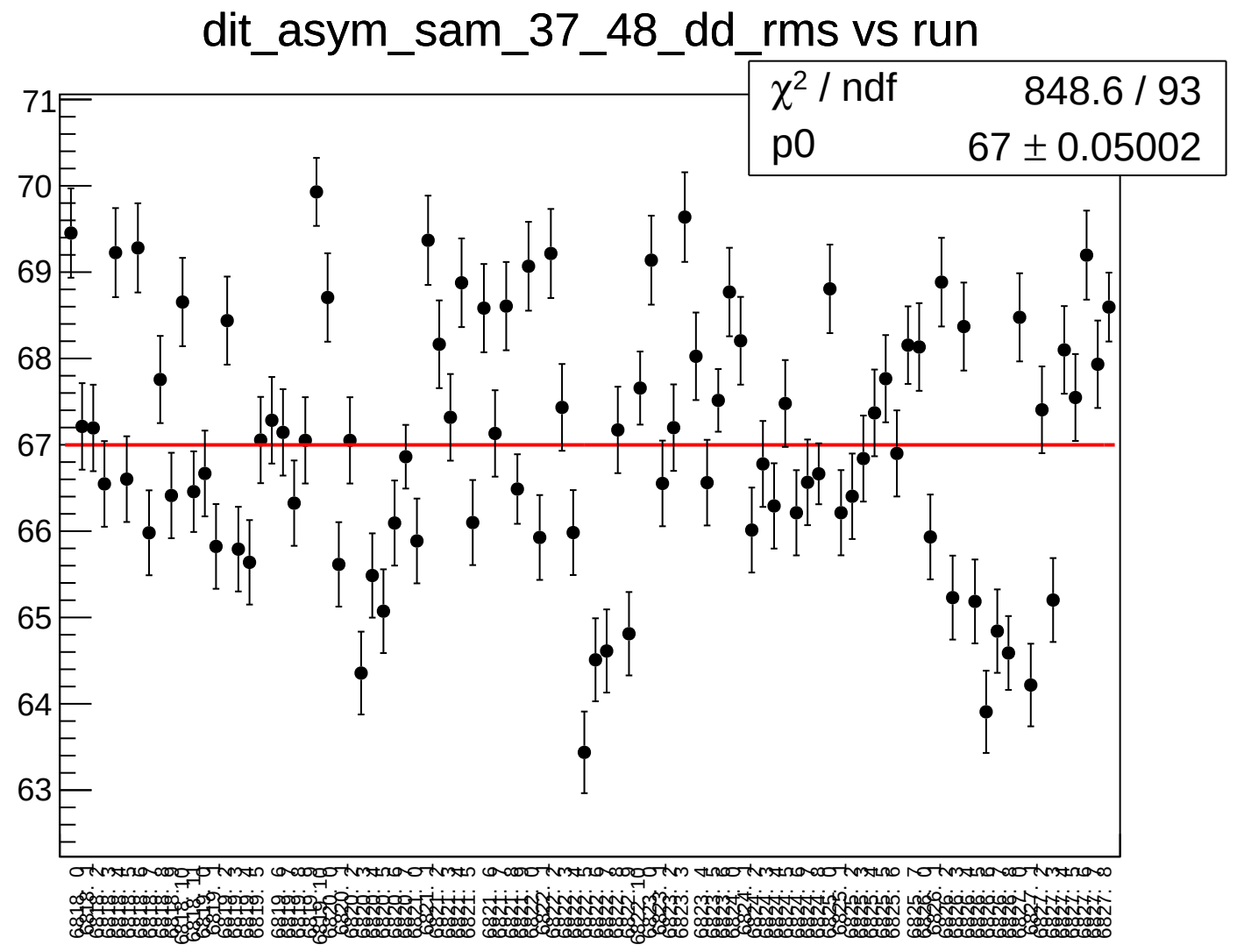

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 97.14 / 93
p0 −369.8 ± 317.3
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 142.5
Std Dev 0
3
2
1
0
−1
−2

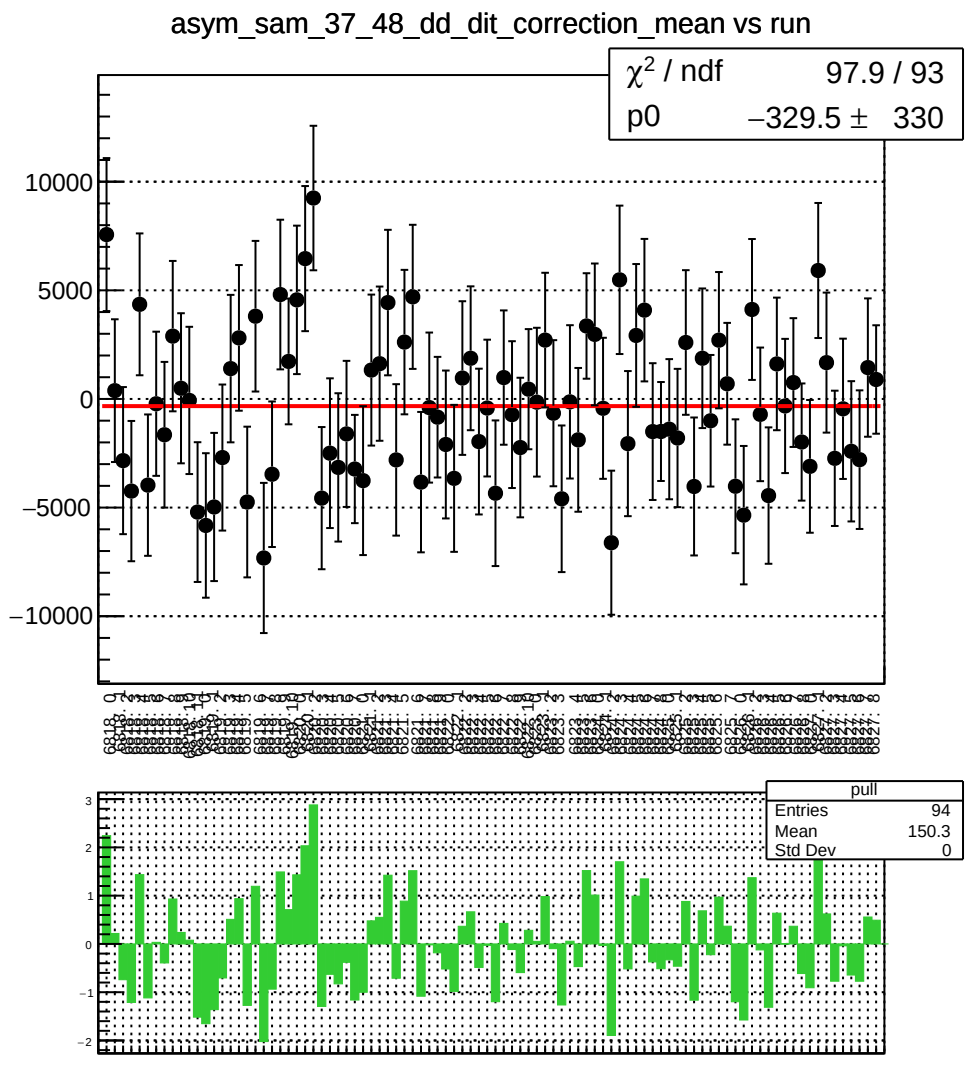

pull1D
Entries 94
Mean 0.003859
Std Dev 1.017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

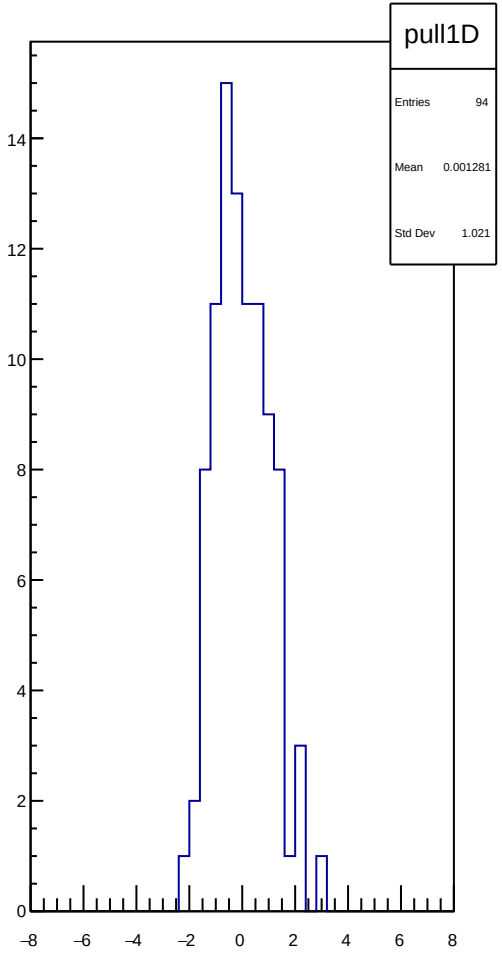

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 4531 / 93
p0 300.2 ± 0.2244
360
340
320
300
280
260

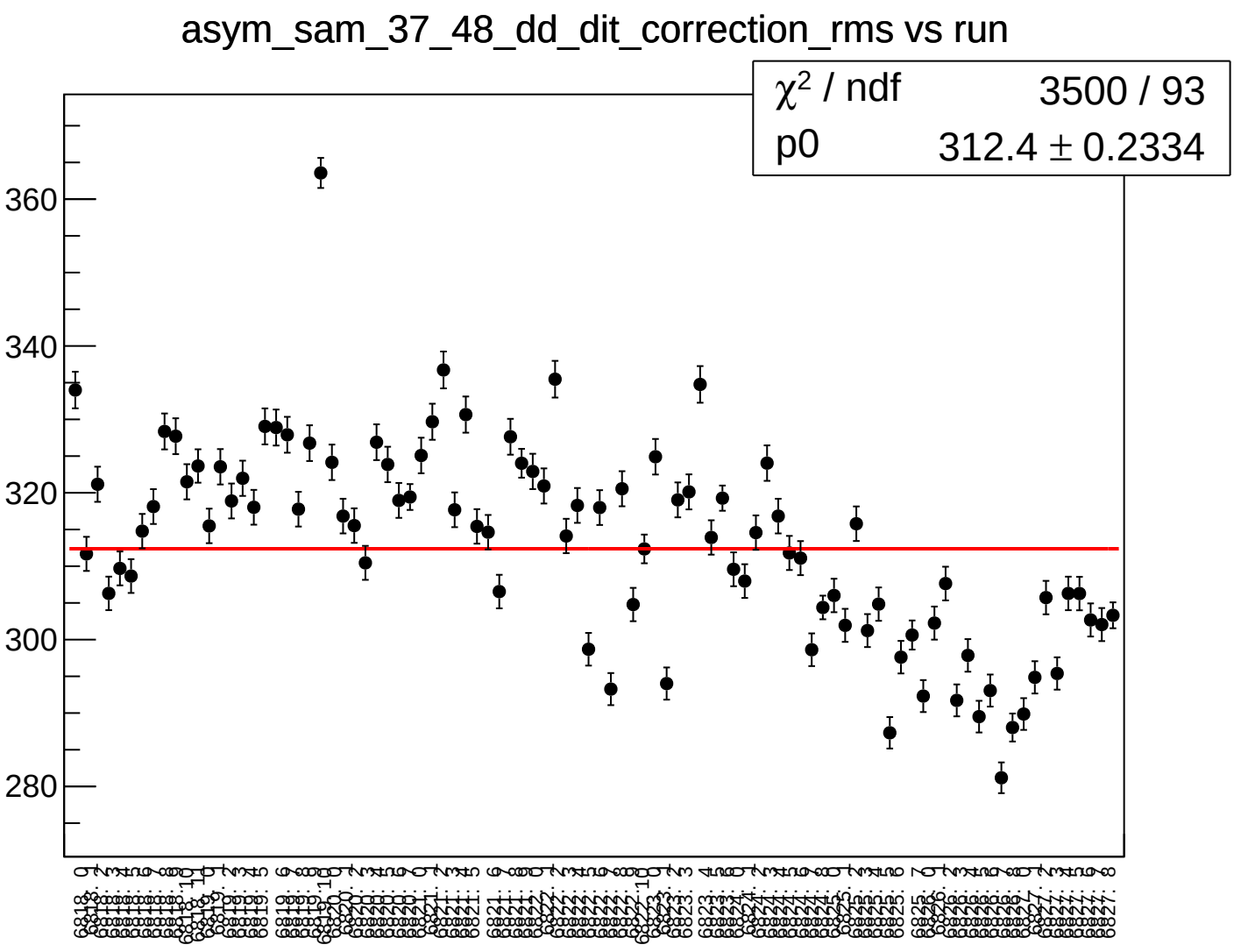

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.79 / 93
p0 −22.22 ± 70.74
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 39.84
Std Dev 43.59
2
1
0
−1
−2
−3

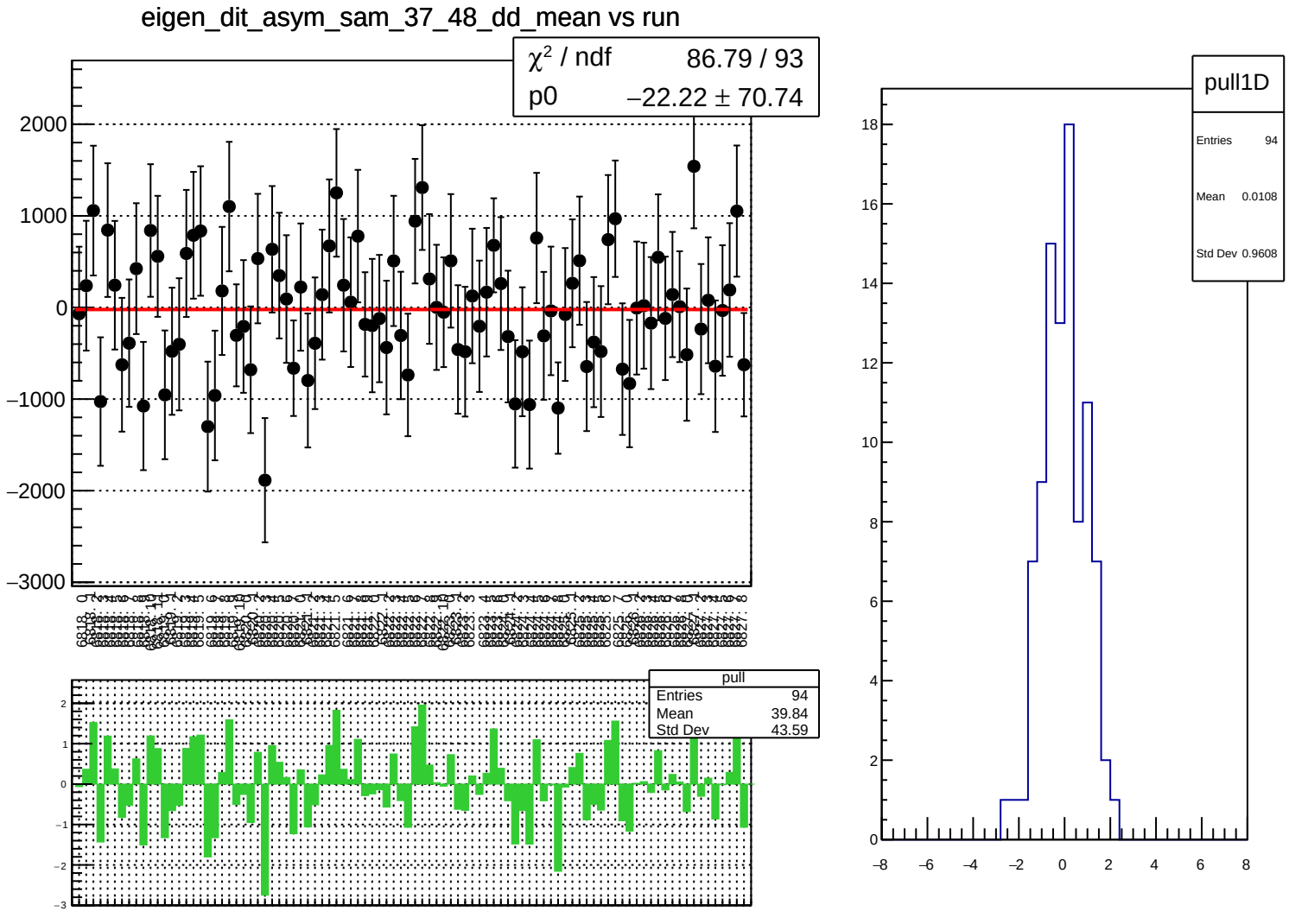

pull1D
Entries 94
Mean 0.0108
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

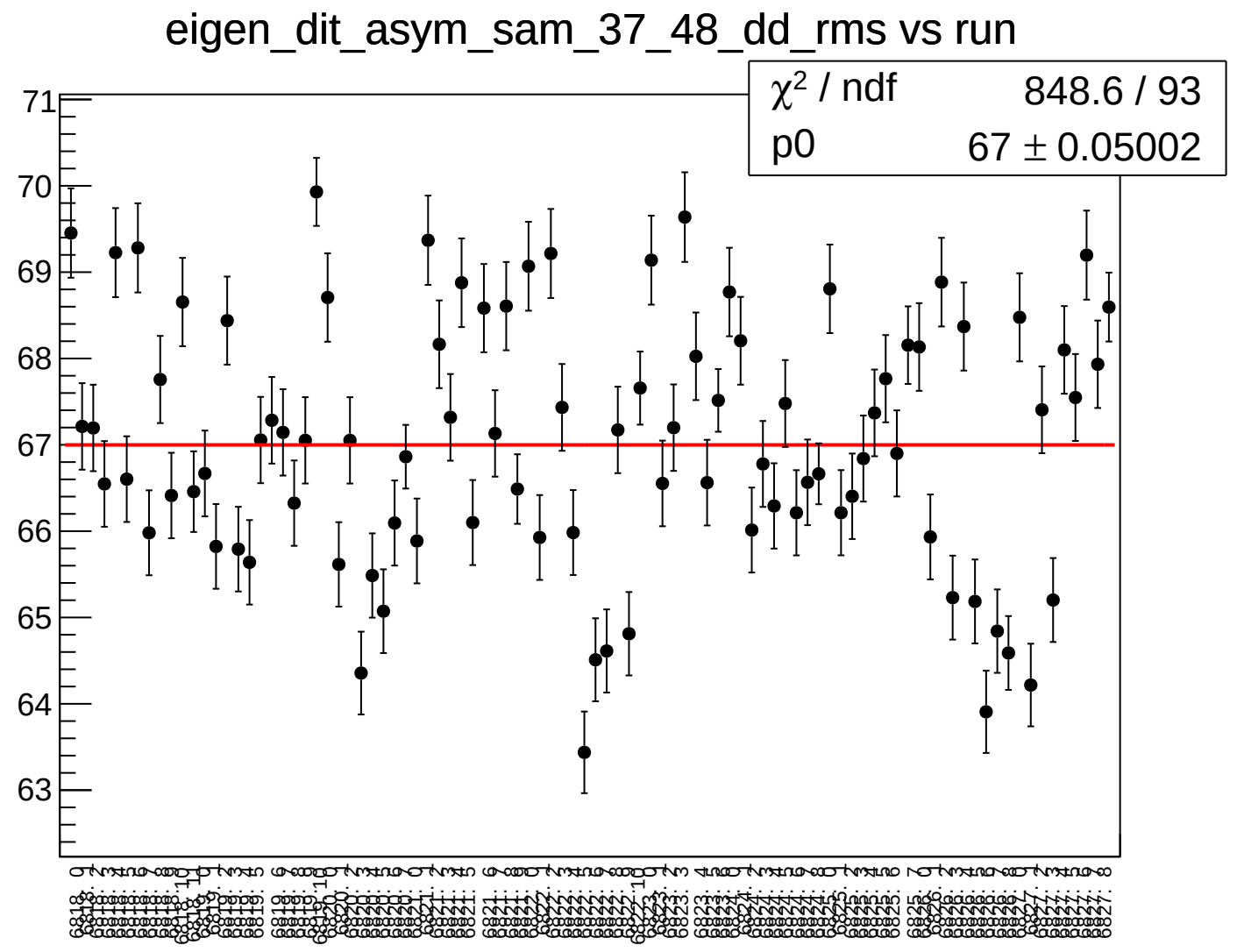

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 848.6 / 93
p0 67 ± 0.05002
71
70
69
68
67
66
65
64
63

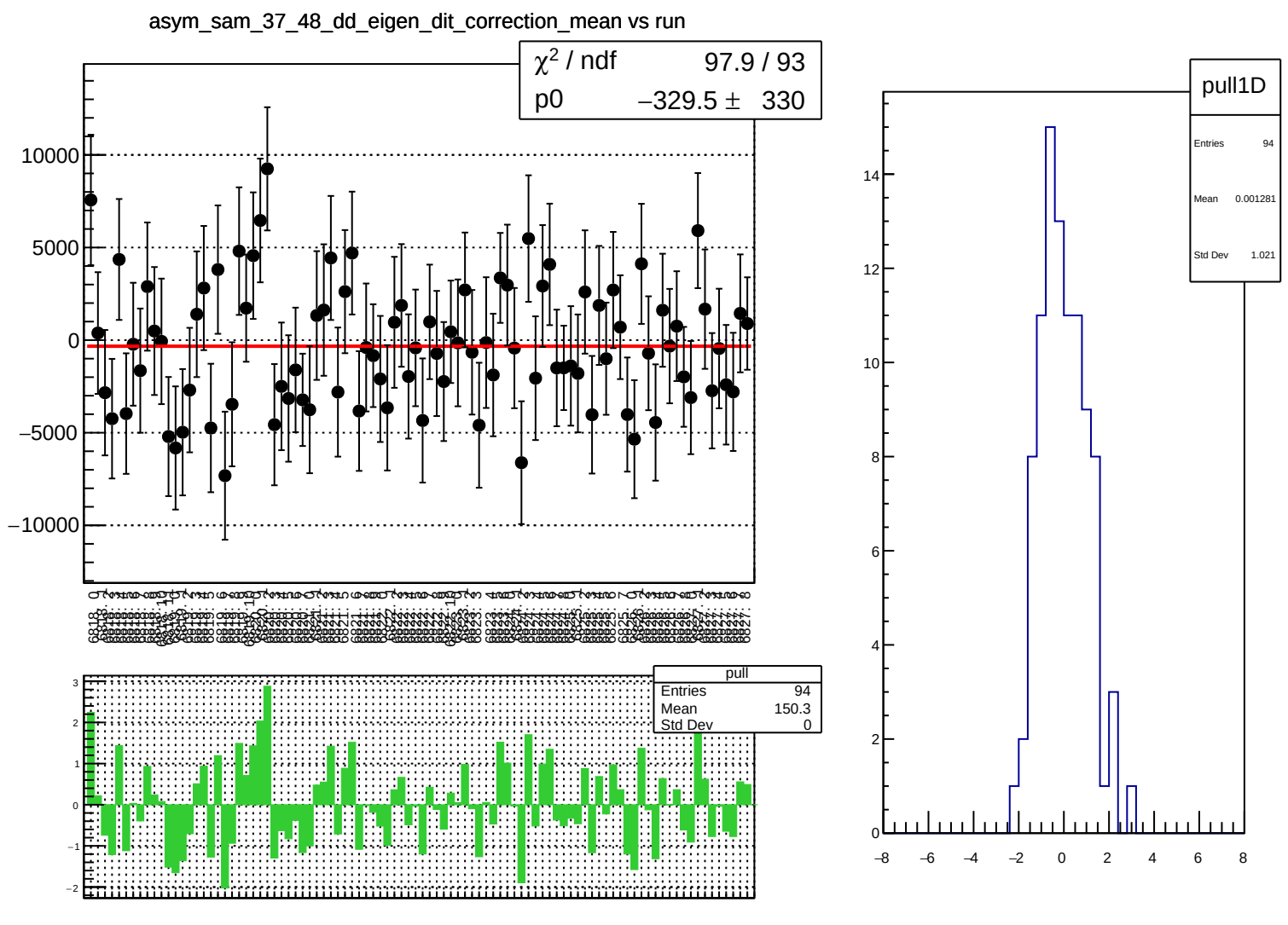

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 97.9 / 93
p0 −329.5 ± 330
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 150.3
Std Dev 0
3
2
1
0
−1
−2

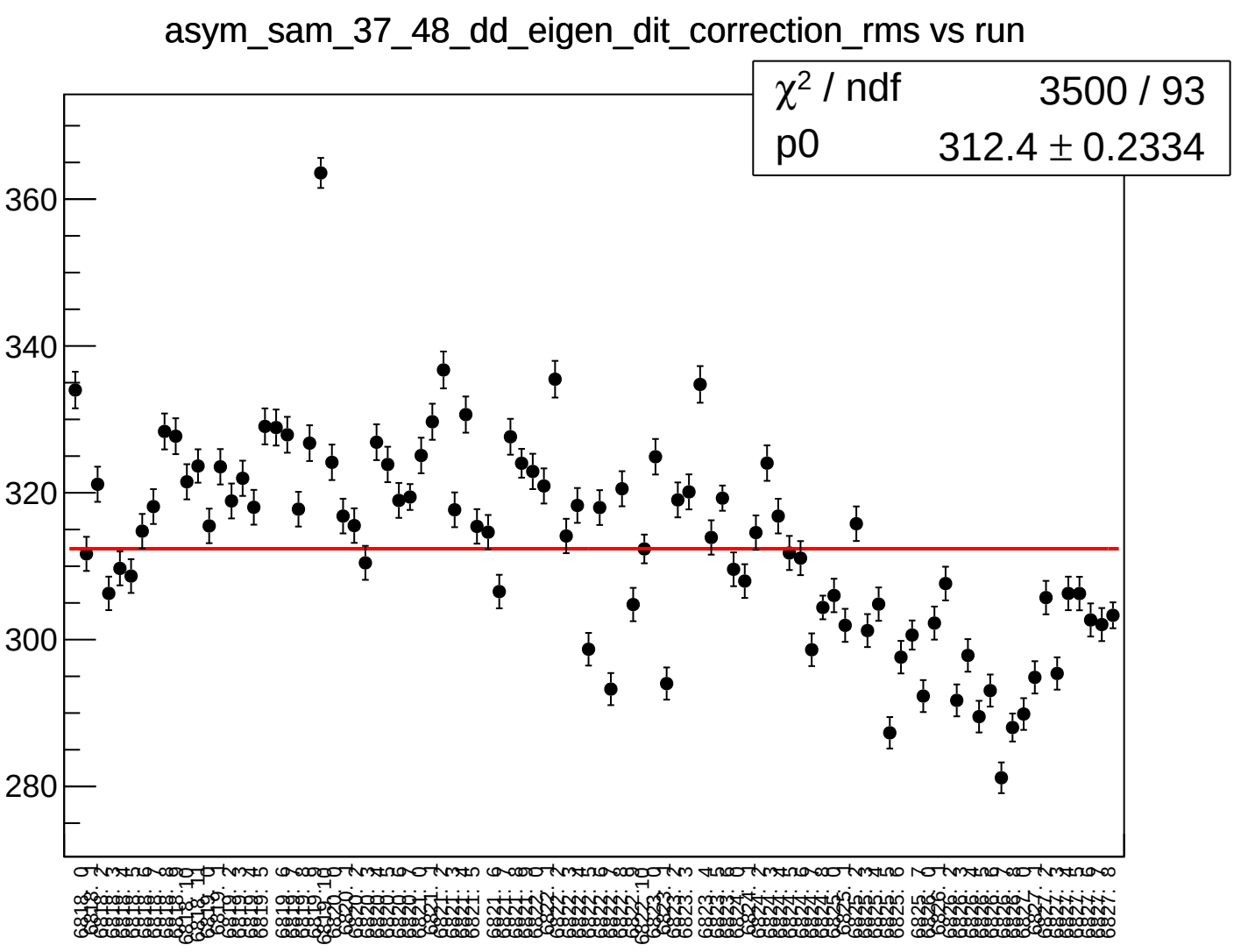

pull1D
Entries 94
Mean 0.001281
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

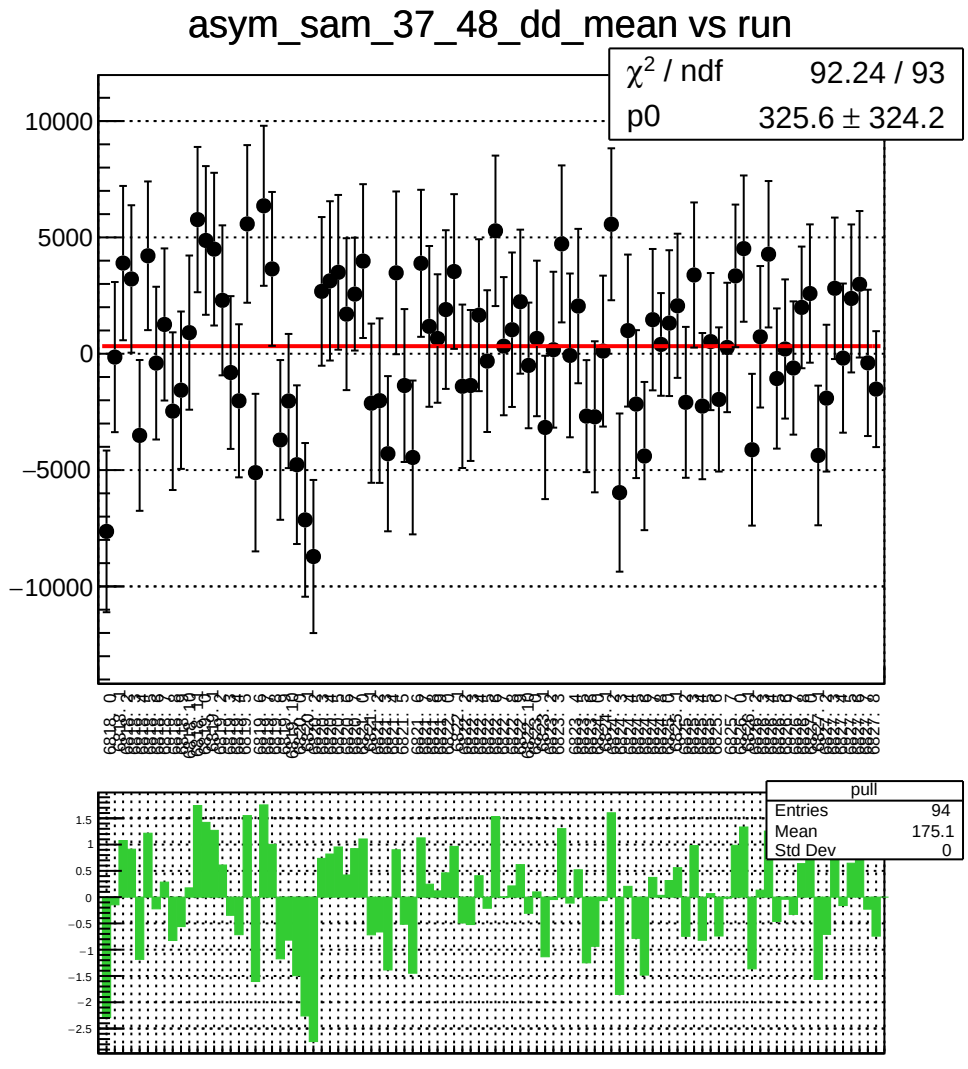

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3500 / 93
p0 312.4 ± 0.2334
360
340
320
300
280

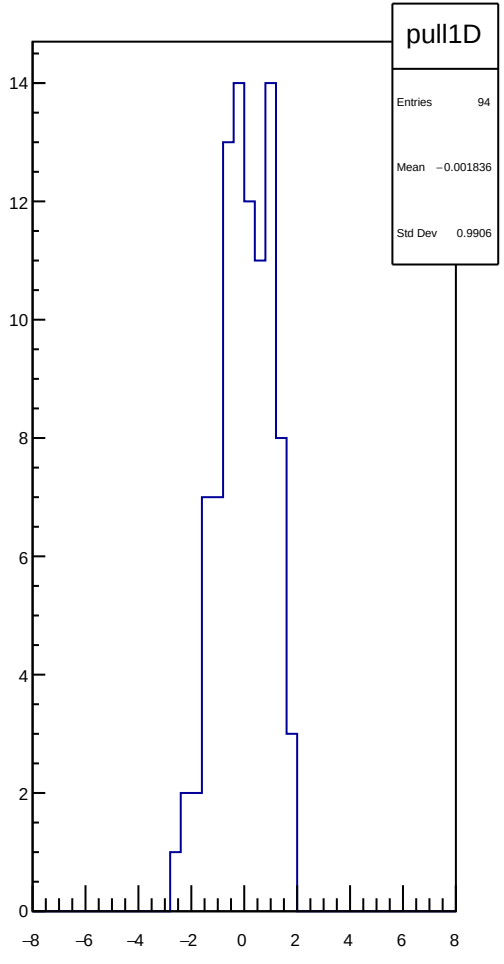

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 86.79 / 93
p0 −22.22 ± 70.74
pull
Entries 94
Mean 39.84
Std Dev 43.59
pull1D
Entries 94
Mean 0.0108
Std Dev 0.9608

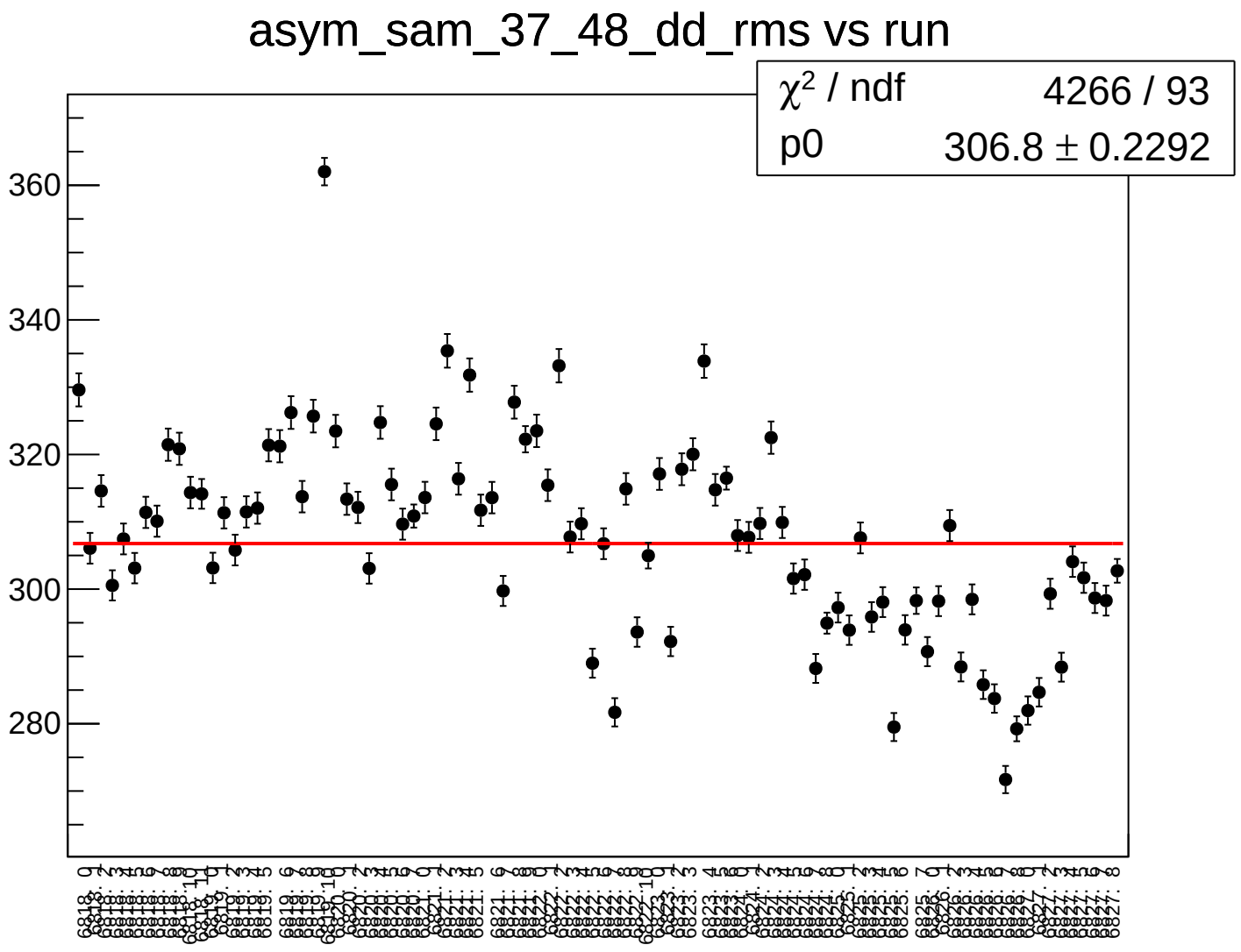

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 848.6 / 93
p0 67 ± 0.05002
71
70
69
68
67
66
65
64
63

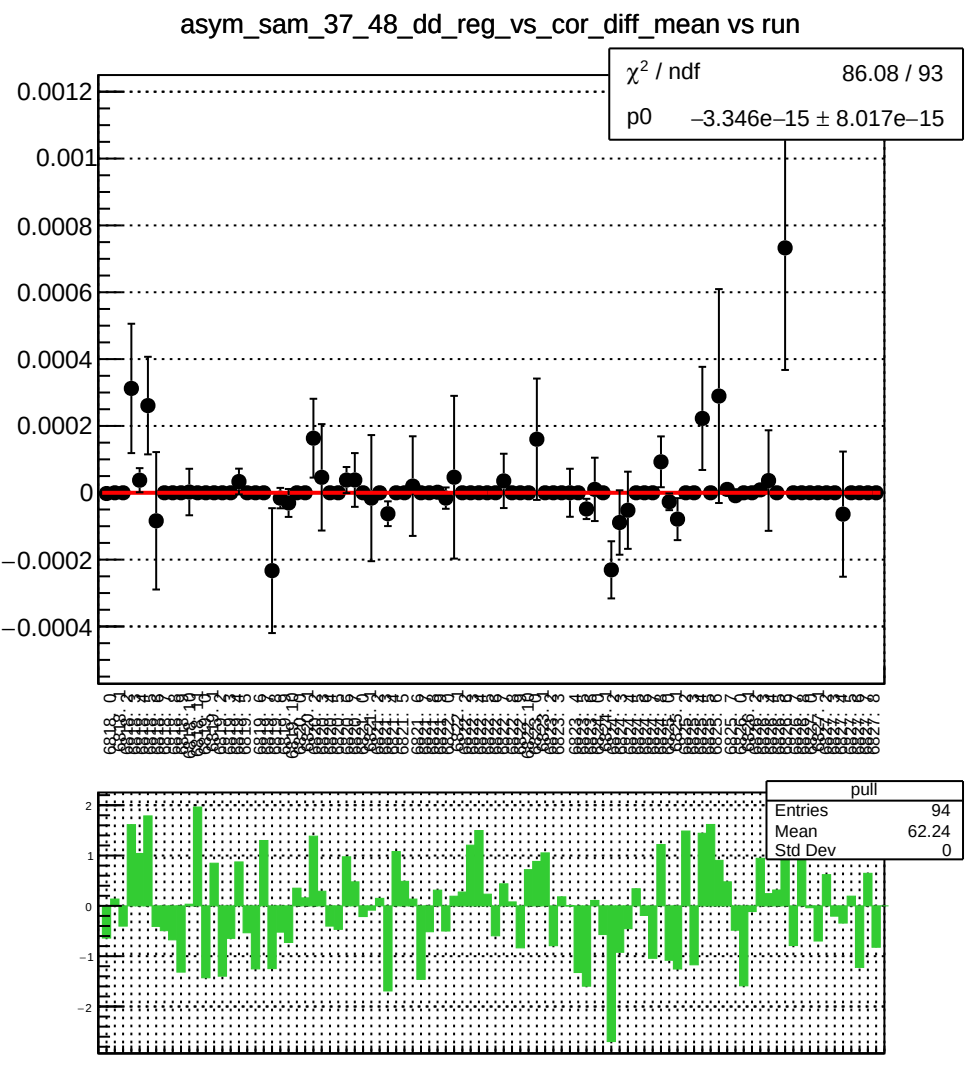

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.9 / 93
p0 −329.5 ± 330
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 150.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.001281
Std Dev 1.021
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

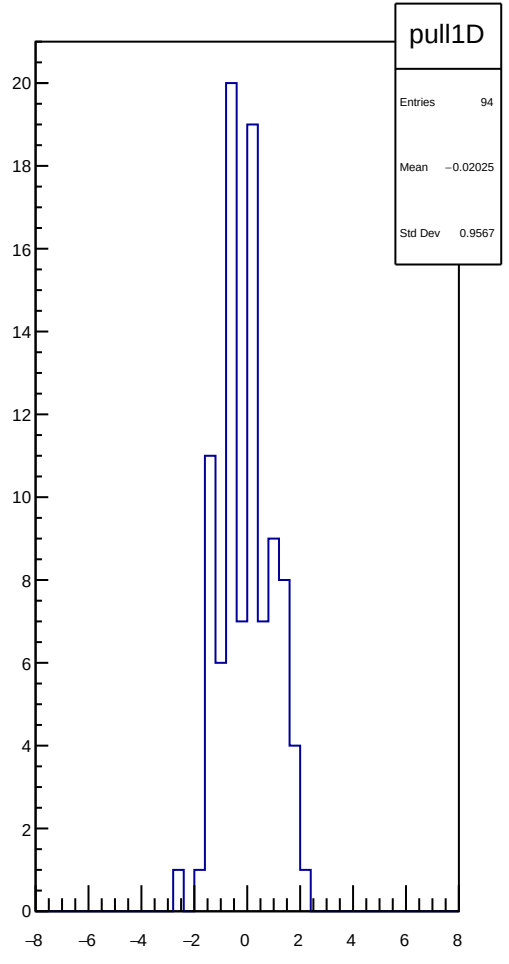

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3500 / 93
p0 312.4 ± 0.2334
360
340
320
300
280

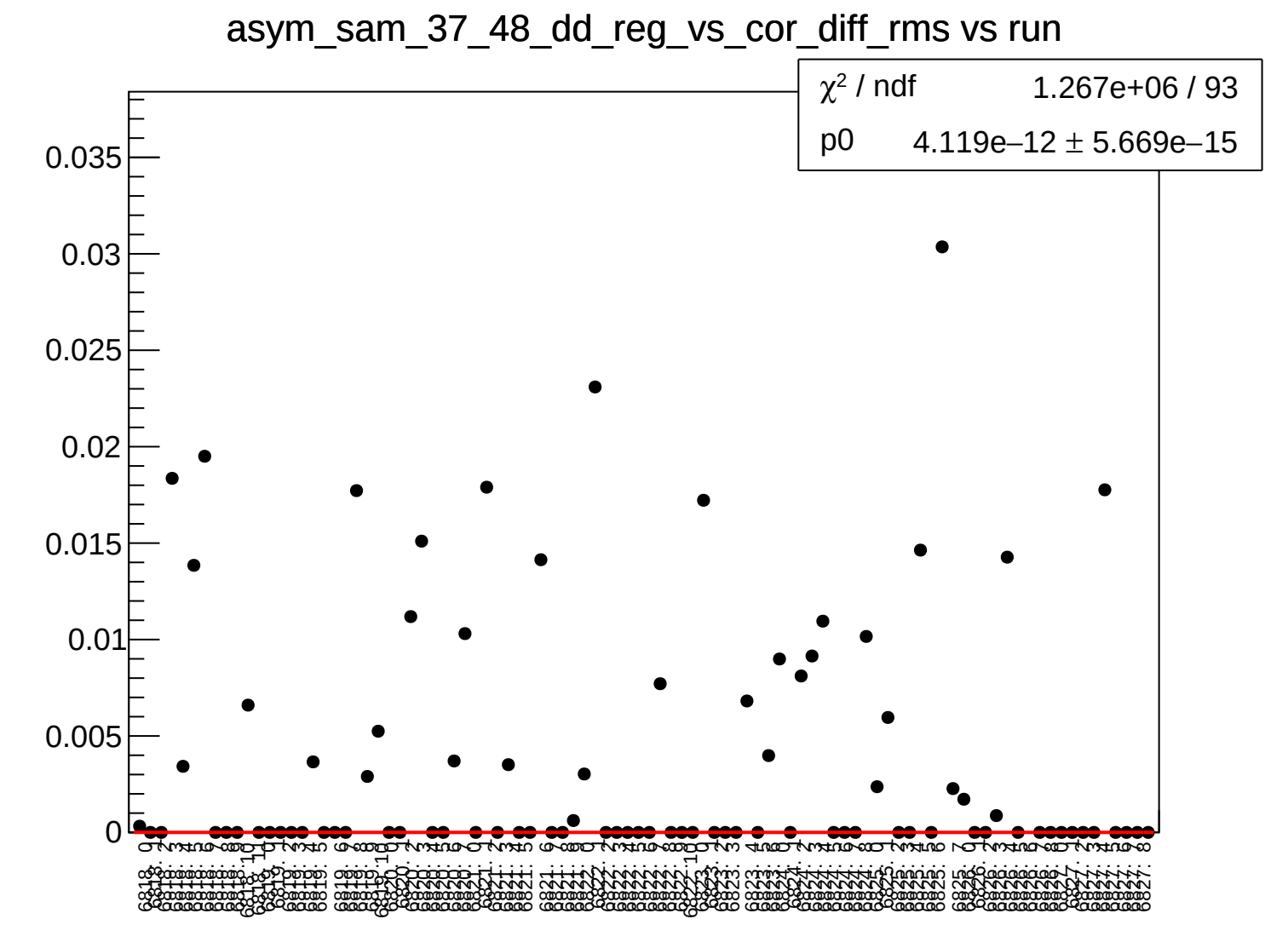

asym_sam_37_48_dd_mean vs run
χ² / ndf 92.24 / 93
p0 325.6 ± 324.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean 175.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

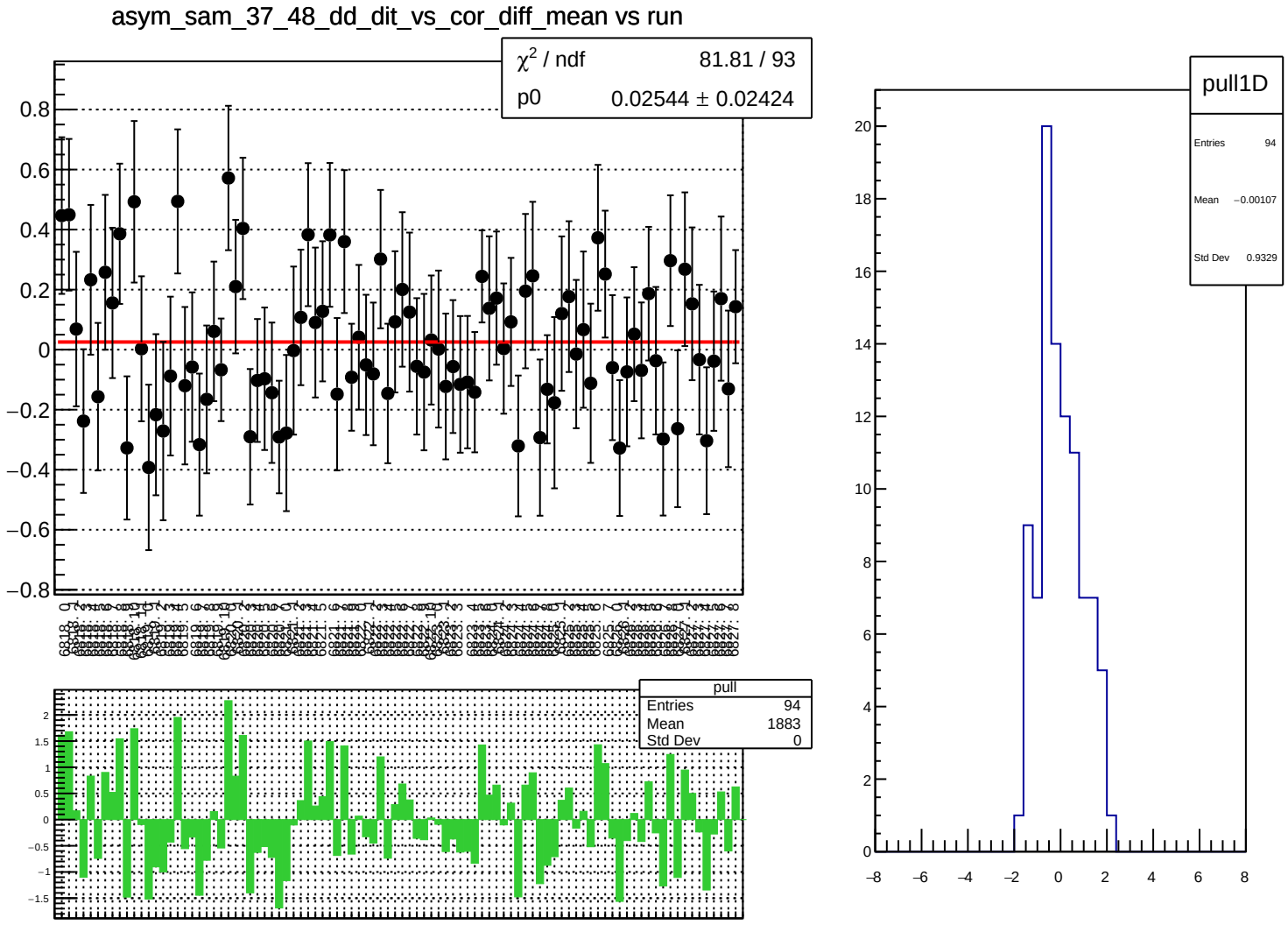

pull1D
Entries 94
Mean −0.001836
Std Dev 0.9906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

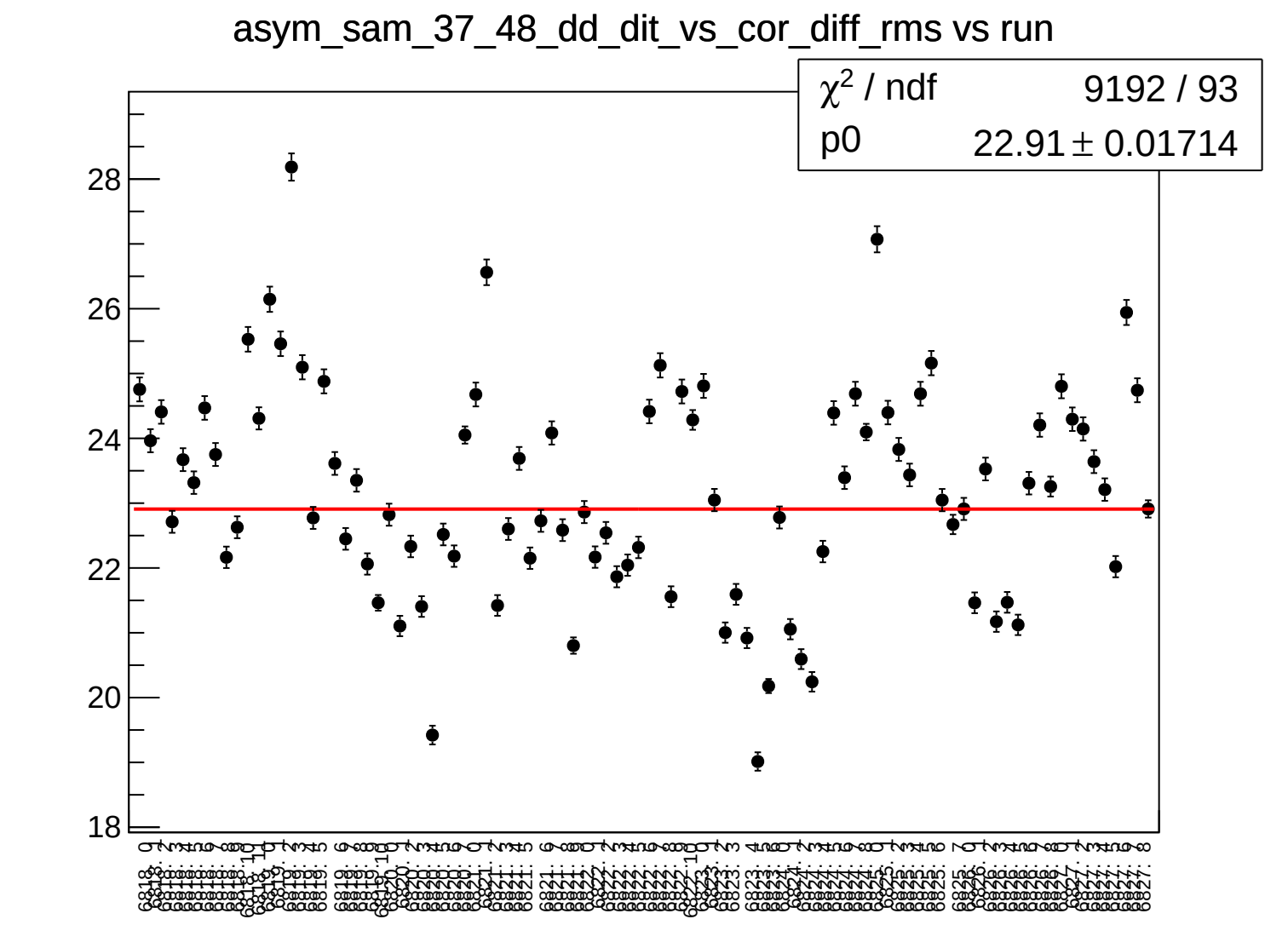

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4266 / 93
p0 306.8 ± 0.2292
360
340
320
300
280

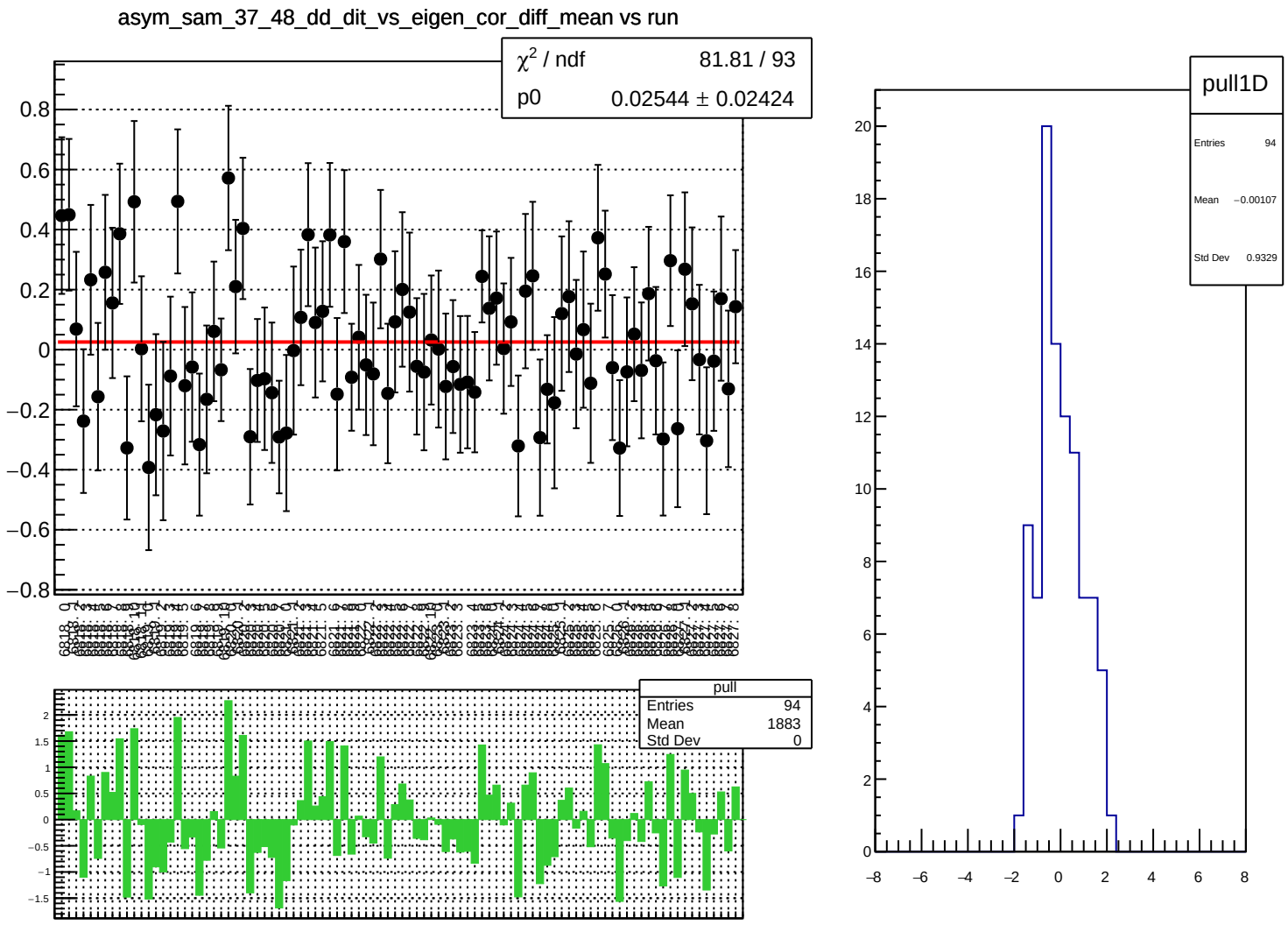

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.08 / 93
p0 −3.346e−15 ± 8.017e−15
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 94
Mean 62.24
Std Dev 0
2
1
0
−1
−2

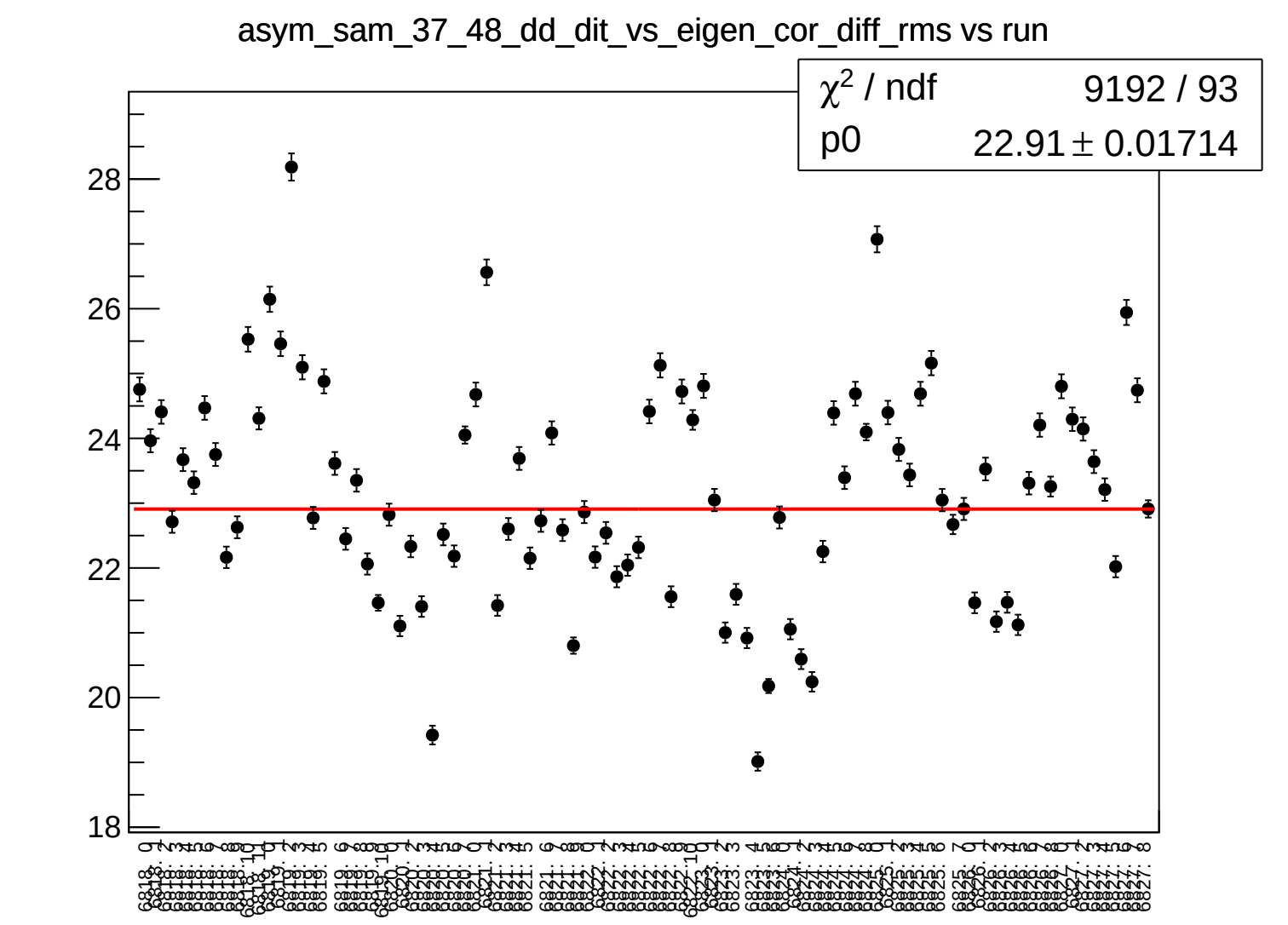

pull1D
Entries 94
Mean −0.02025
Std Dev 0.9567
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

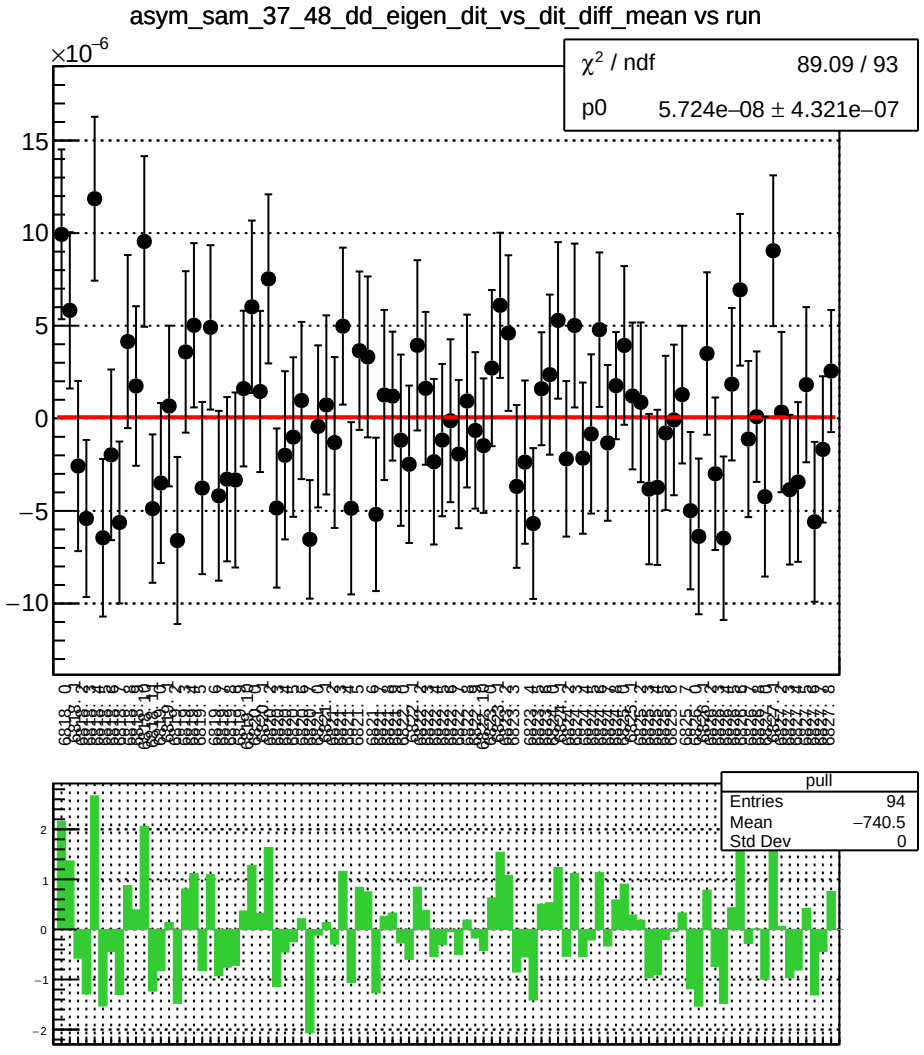

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.267e+06 / 93
p0 4.119e−12 ± 5.669e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

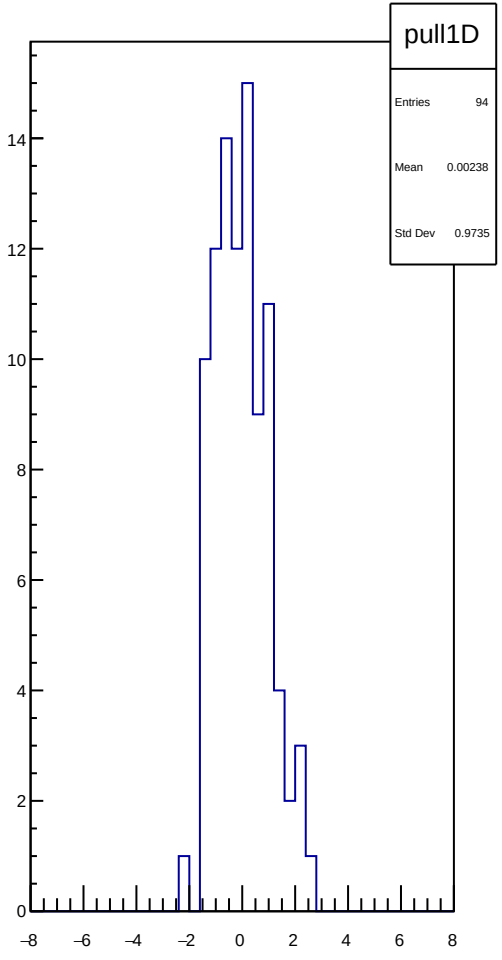

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 93
p0 0.02544 ± 0.02424
pull
Entries 94
Mean 1883
Std Dev 0
pull1D
Entries 94
Mean −0.00107
Std Dev 0.9329

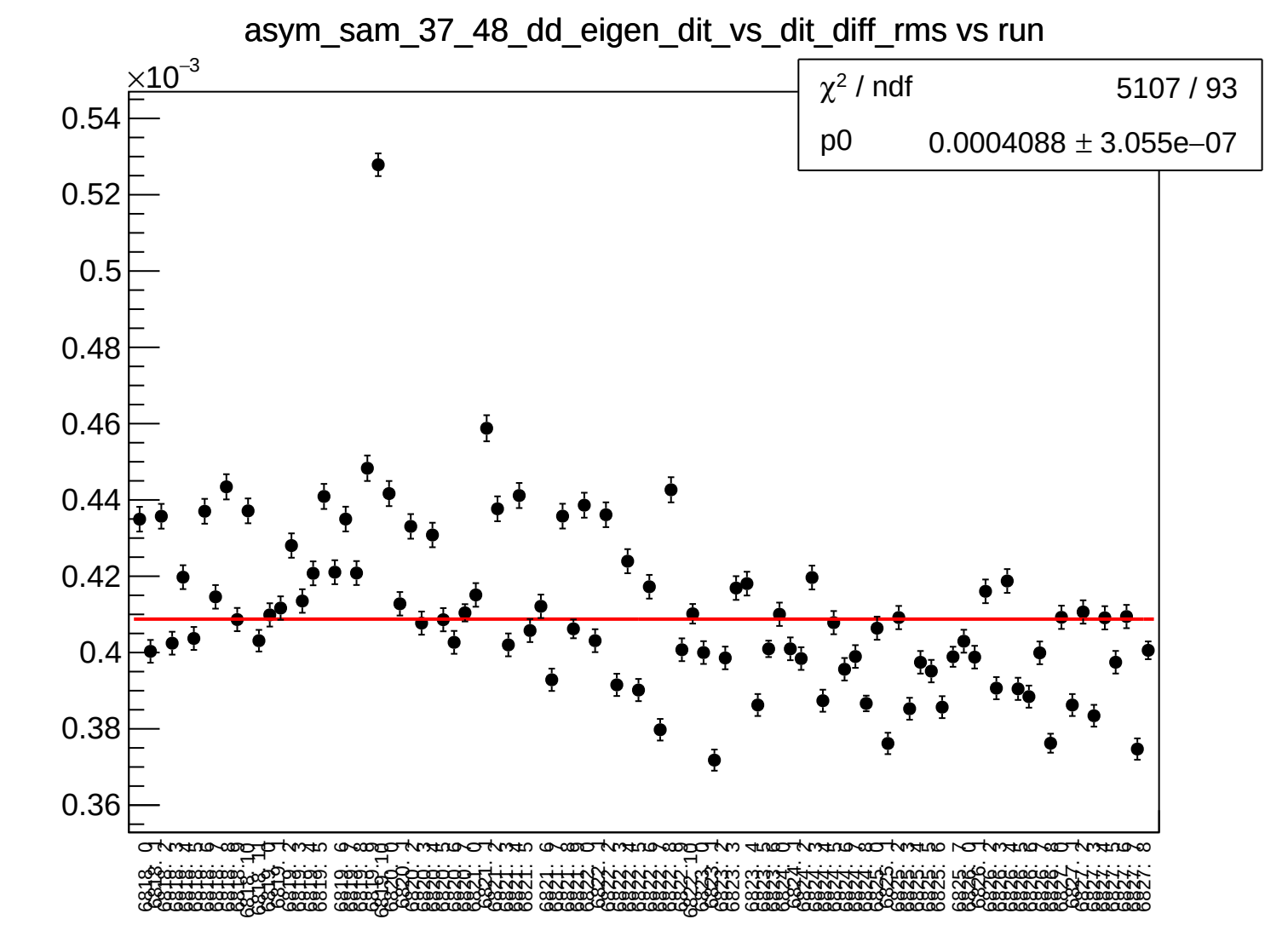

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9192 / 93
p0 22.91 ± 0.01714
28
26
24
22
20
18

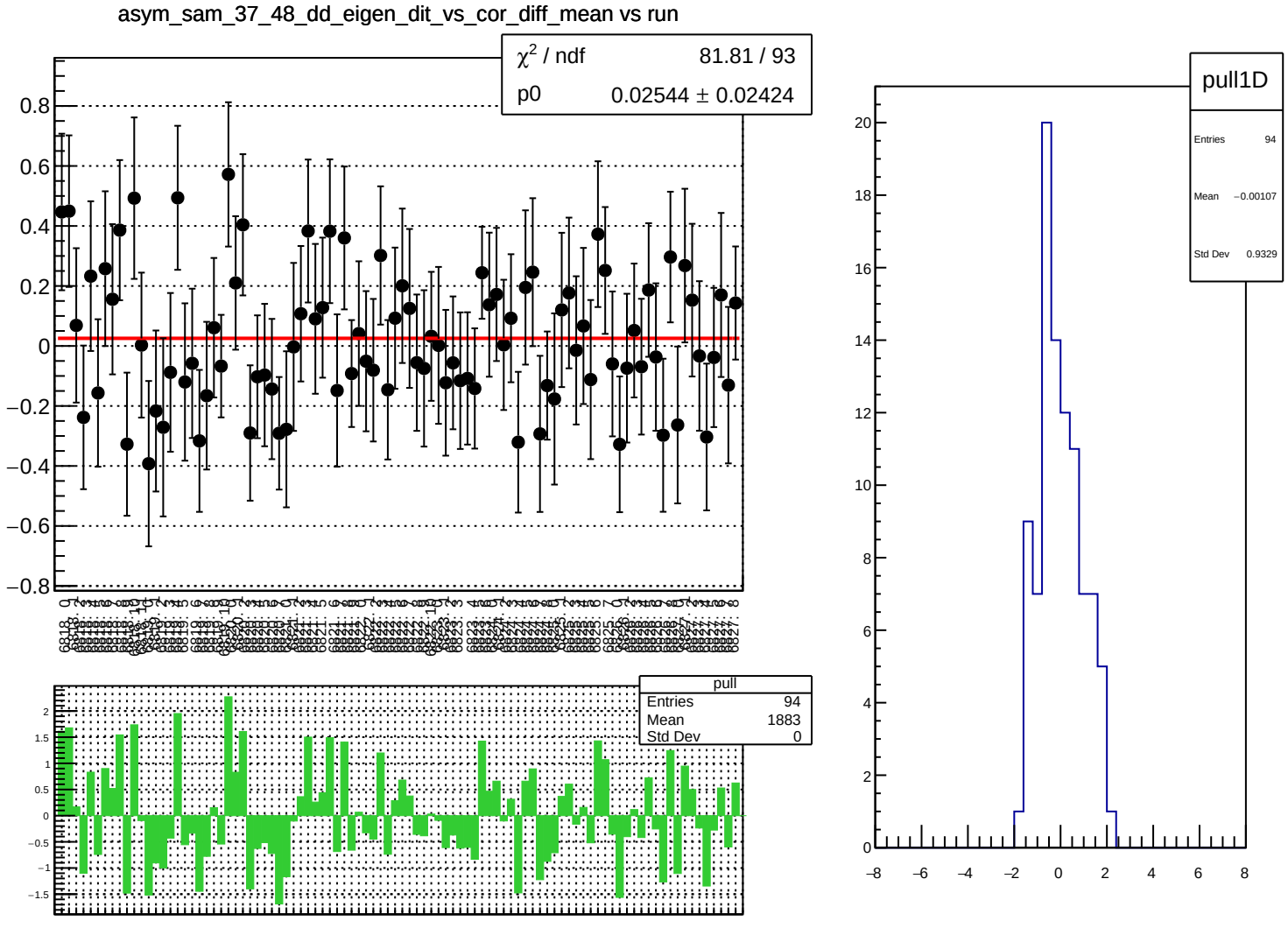

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 93
p0 0.02544 ± 0.02424
pull
Entries 94
Mean 1883
Std Dev 0
pull1D
Entries 94
Mean −0.00107
Std Dev 0.9329

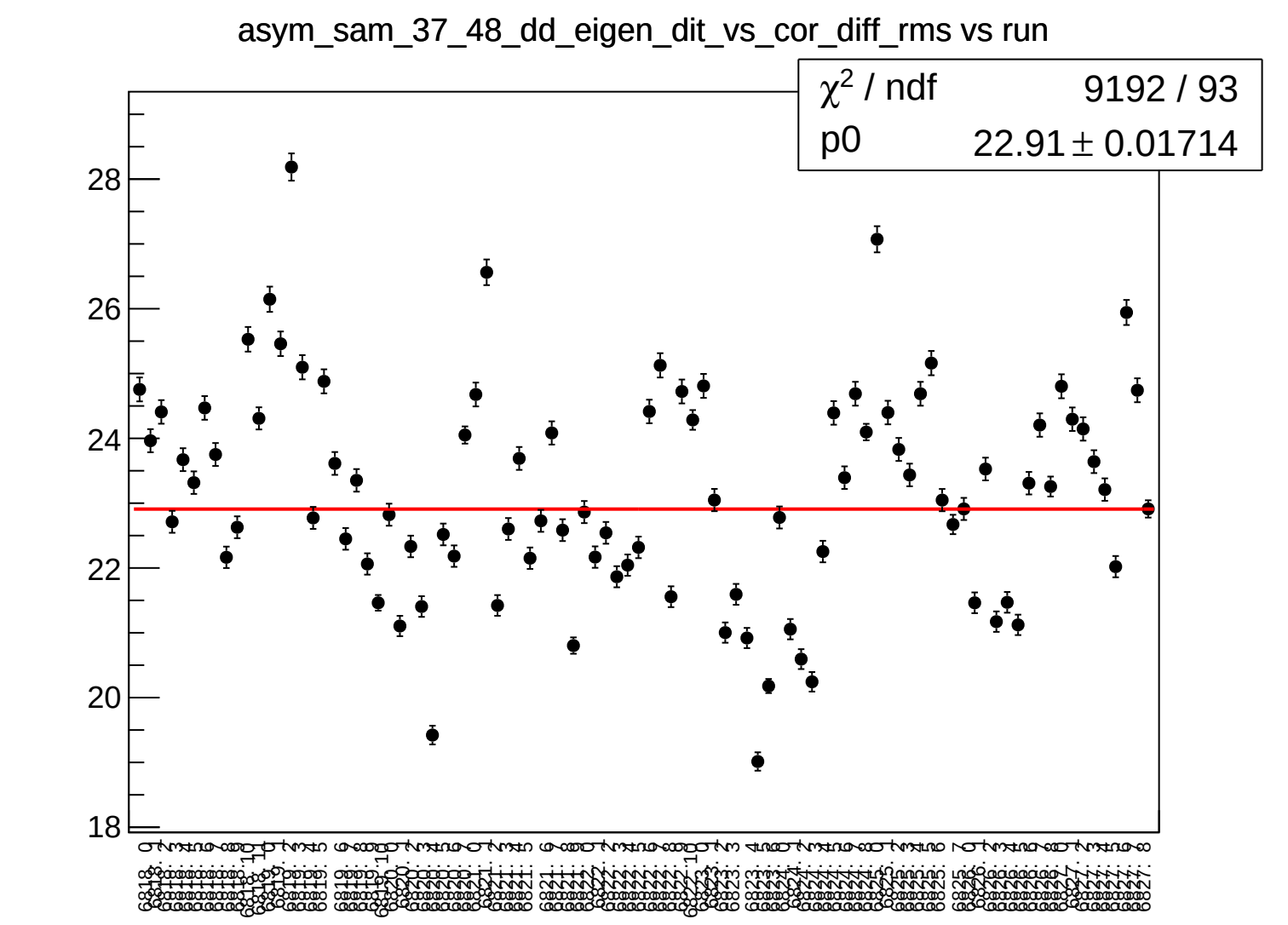

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9192 / 93
p0 22.91 ± 0.01714
28
26
24
22
20
18

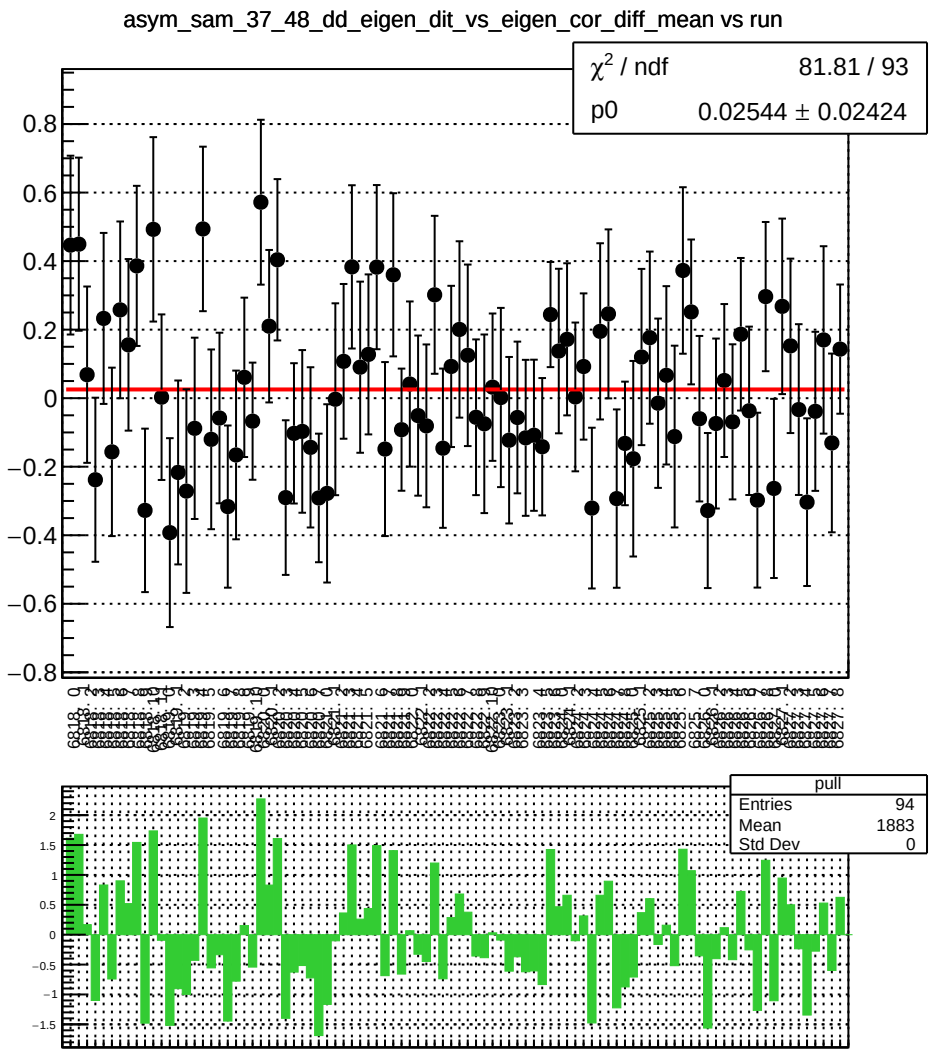

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 89.09 / 93
p0 5.724e−08 ± 4.321e−07
15
10
5
0
−5
−10
pull
Entries 94
Mean −740.5
Std Dev 0
2
1
0
−1
−2

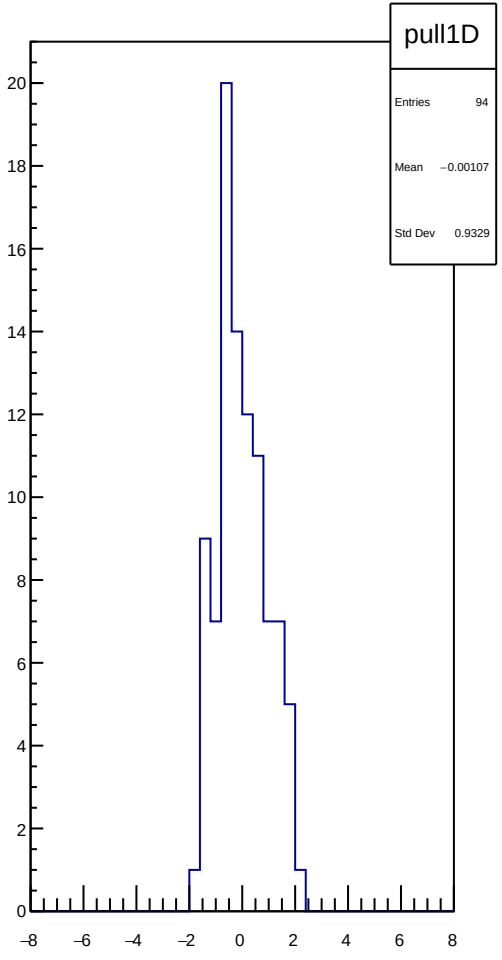

pull1D
Entries 94
Mean 0.00238
Std Dev 0.9735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

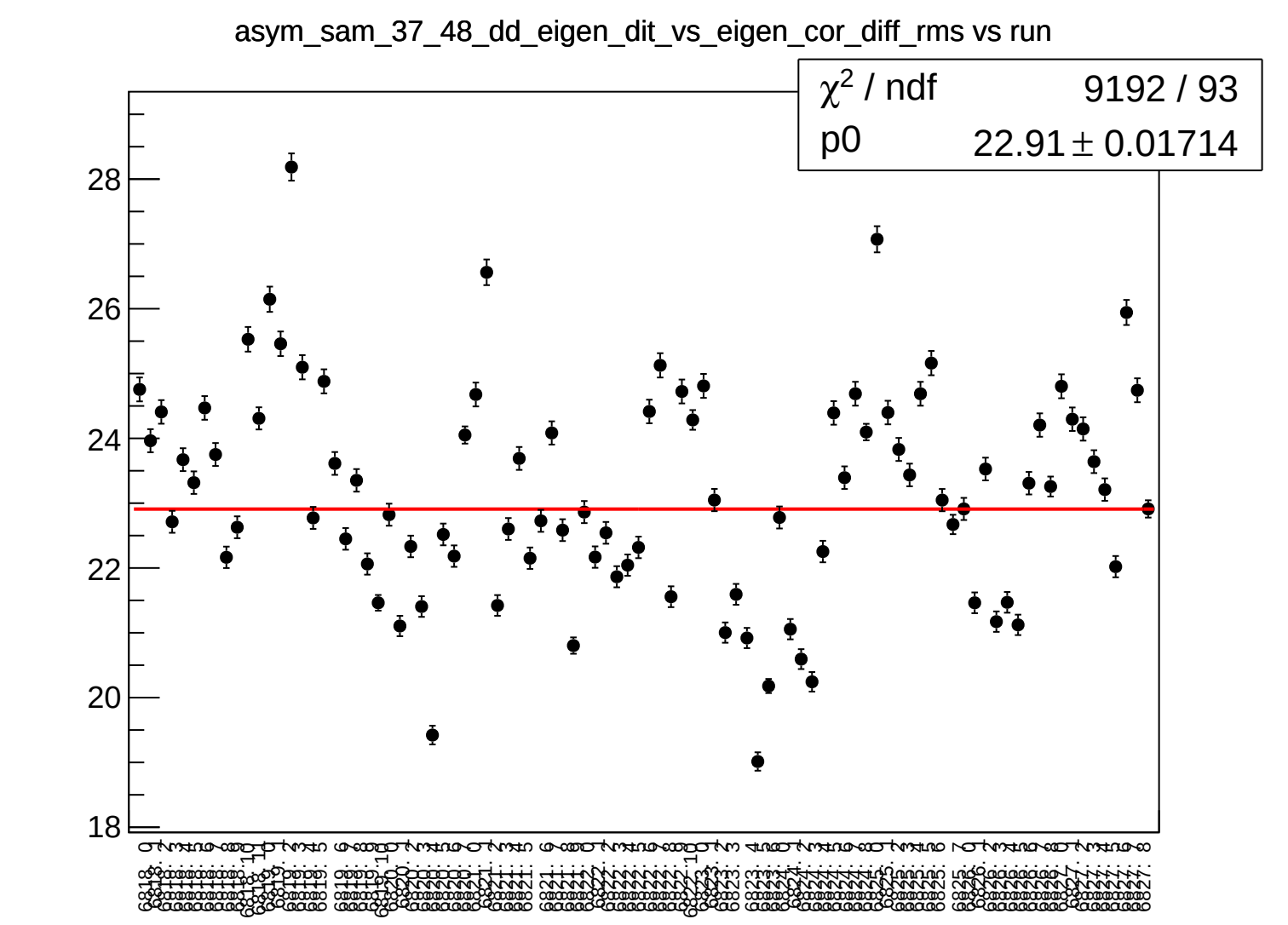

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 5107 / 93
p0 0.0004088 ± 3.055e−07
0.54
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36

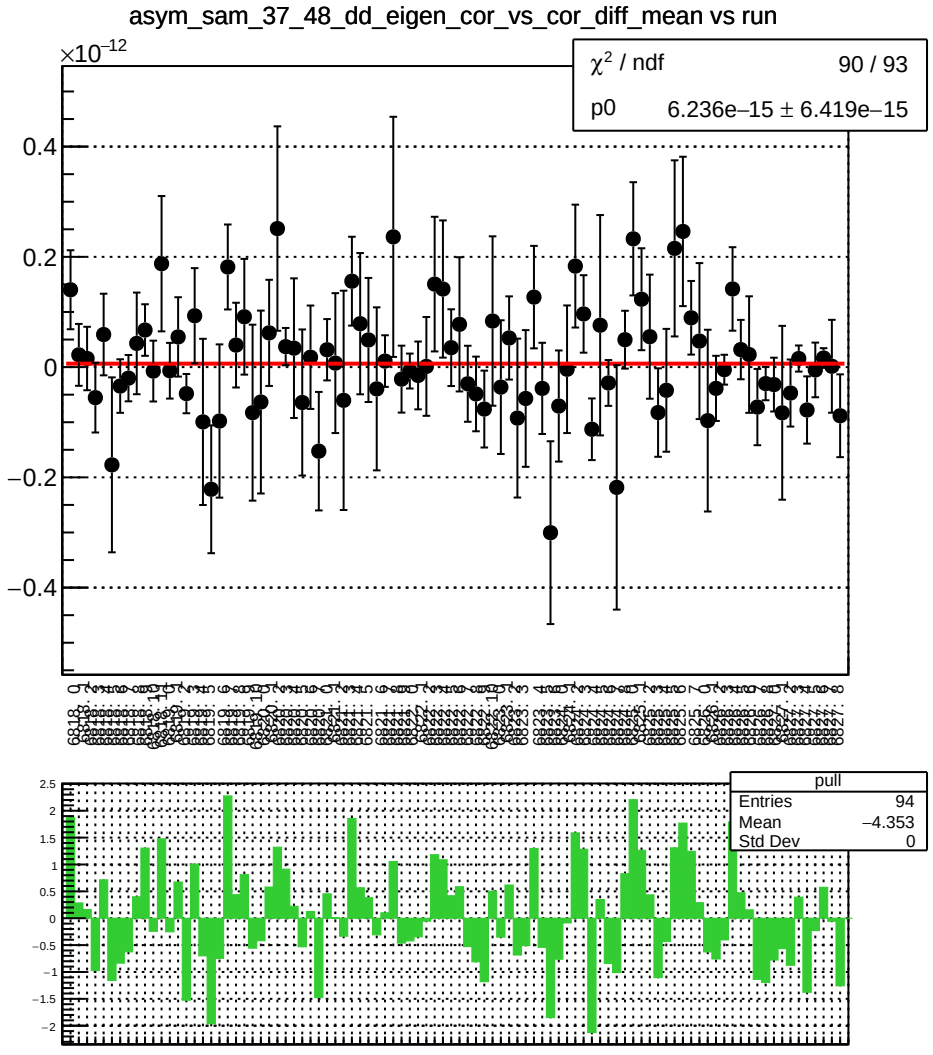

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.81 / 93
p0 0.02544 ± 0.02424
pull
Entries 94
Mean 1883
Std Dev 0
pull1D
Entries 94
Mean −0.00107
Std Dev 0.9329

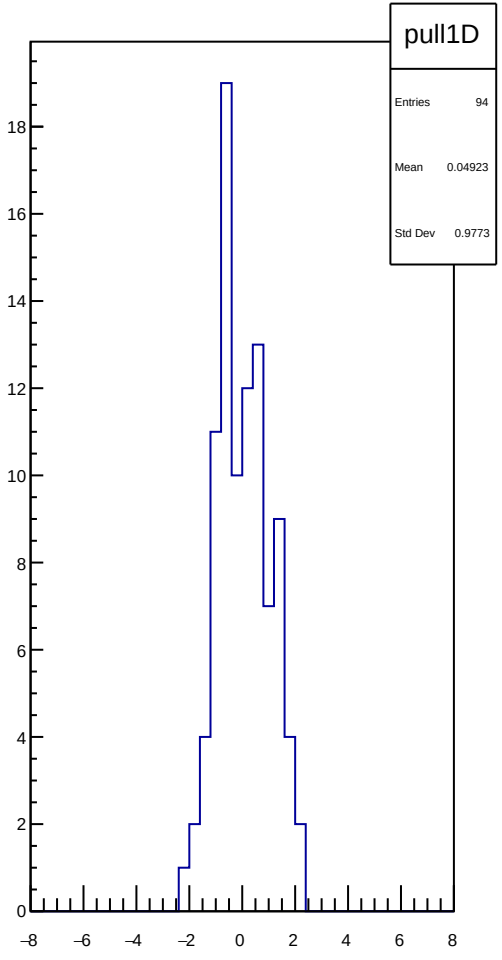

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9192 / 93
p0 22.91 ± 0.01714
28
26
24
22
20
18

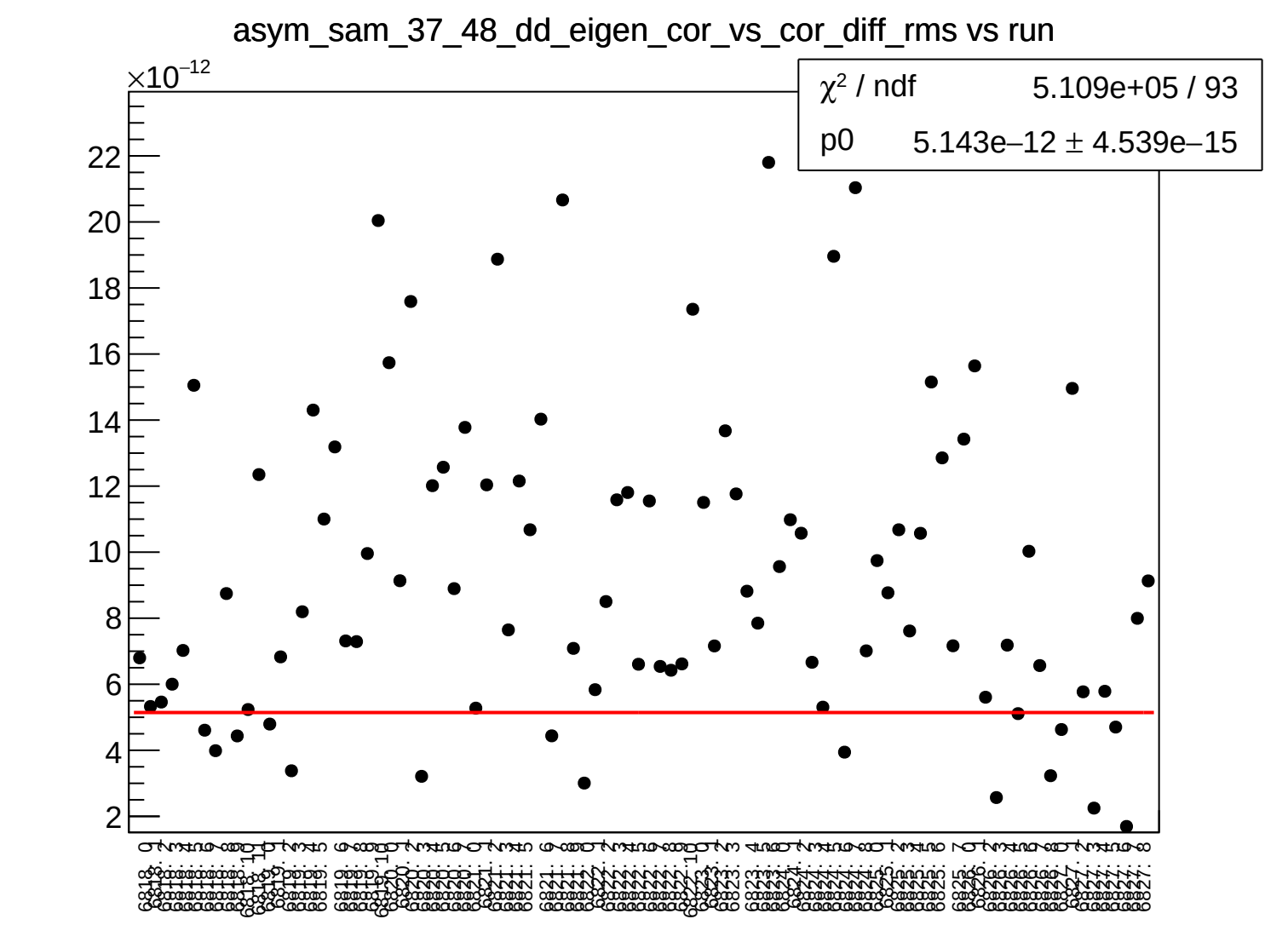

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.81 / 93
p0 0.02544 ± 0.02424
pull
Entries 94
Mean 1883
Std Dev 0

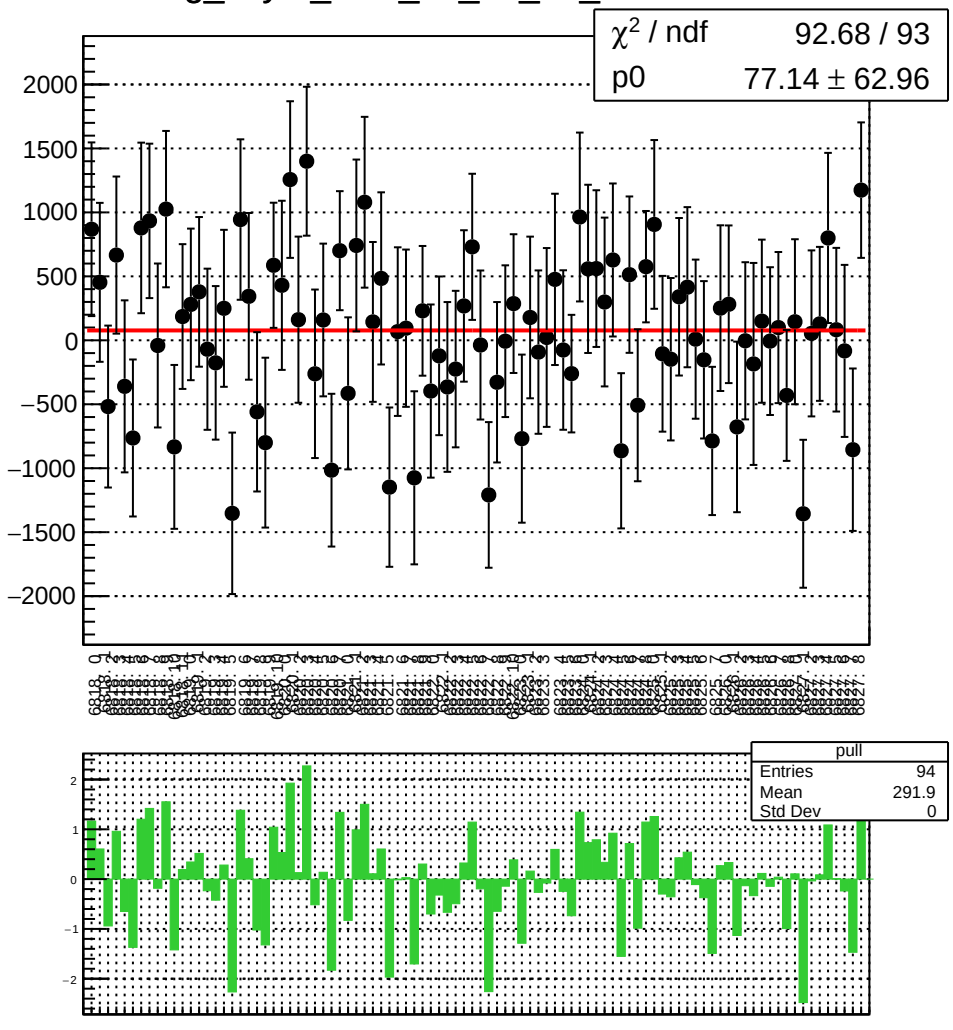

pull1D
Entries 94
Mean −0.00107
Std Dev 0.9329

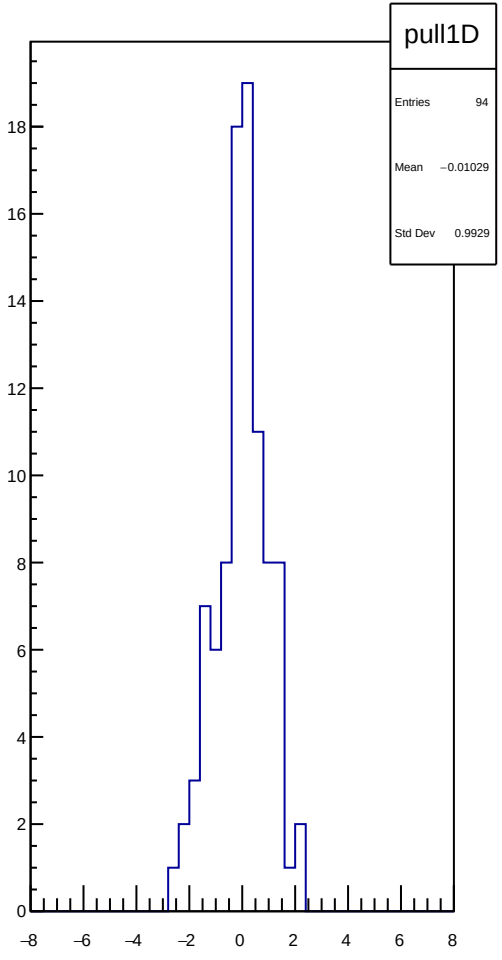

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9192 / 93
p0 22.91 ± 0.01714
28
26
24
22
20
18

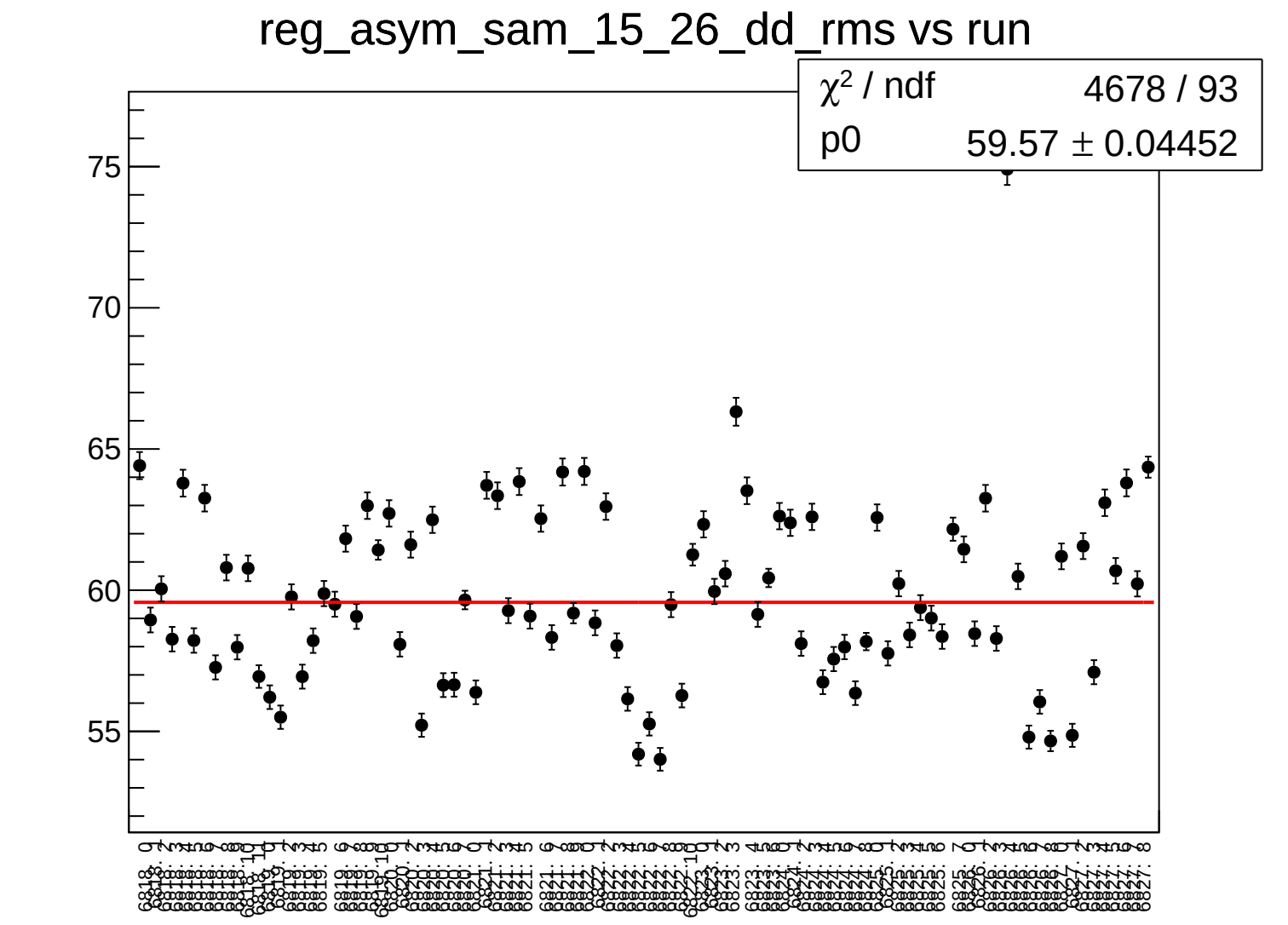

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90 / 93
p0 6.236e−15 ± 6.419e−15
0.4
0.2
0
−0.2
−0.4
pull
Entries 94
Mean −4.353
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

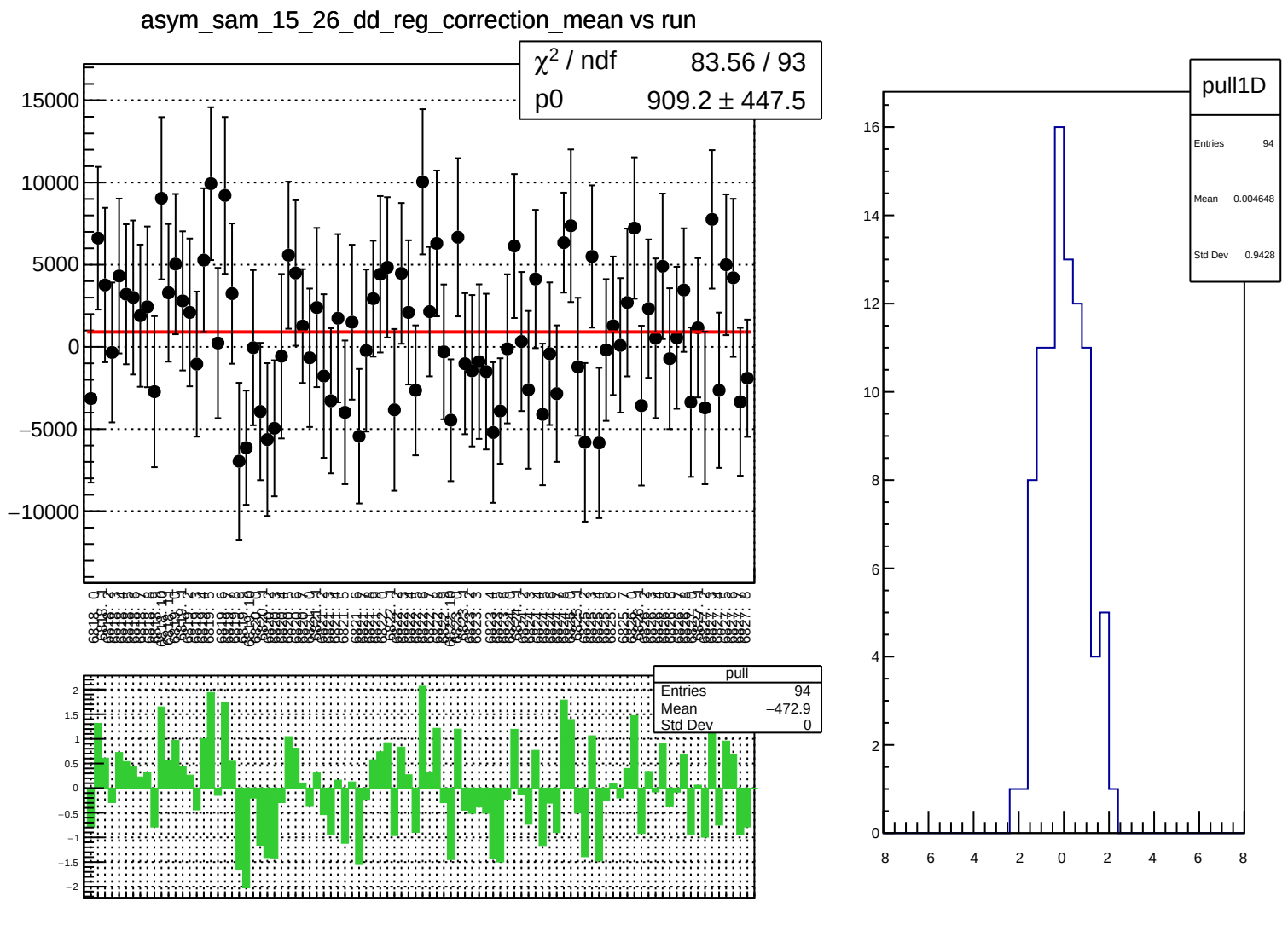

pull1D
Entries 94
Mean 0.04923
Std Dev 0.9773
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

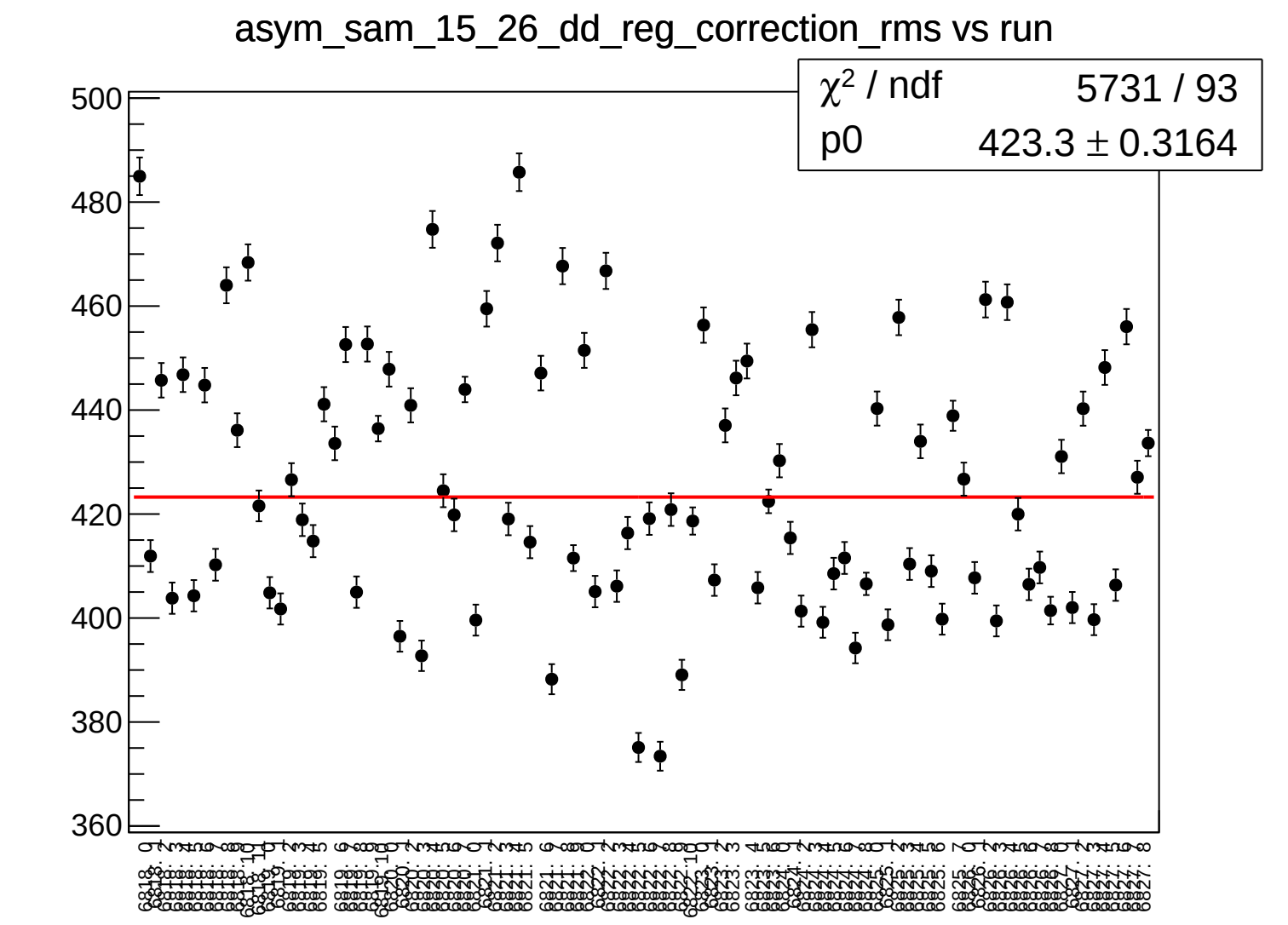

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.109e+05 / 93
p0 5.143e−12 ± 4.539e−15
22
20
18
16
14
12
10
8
6
4
2

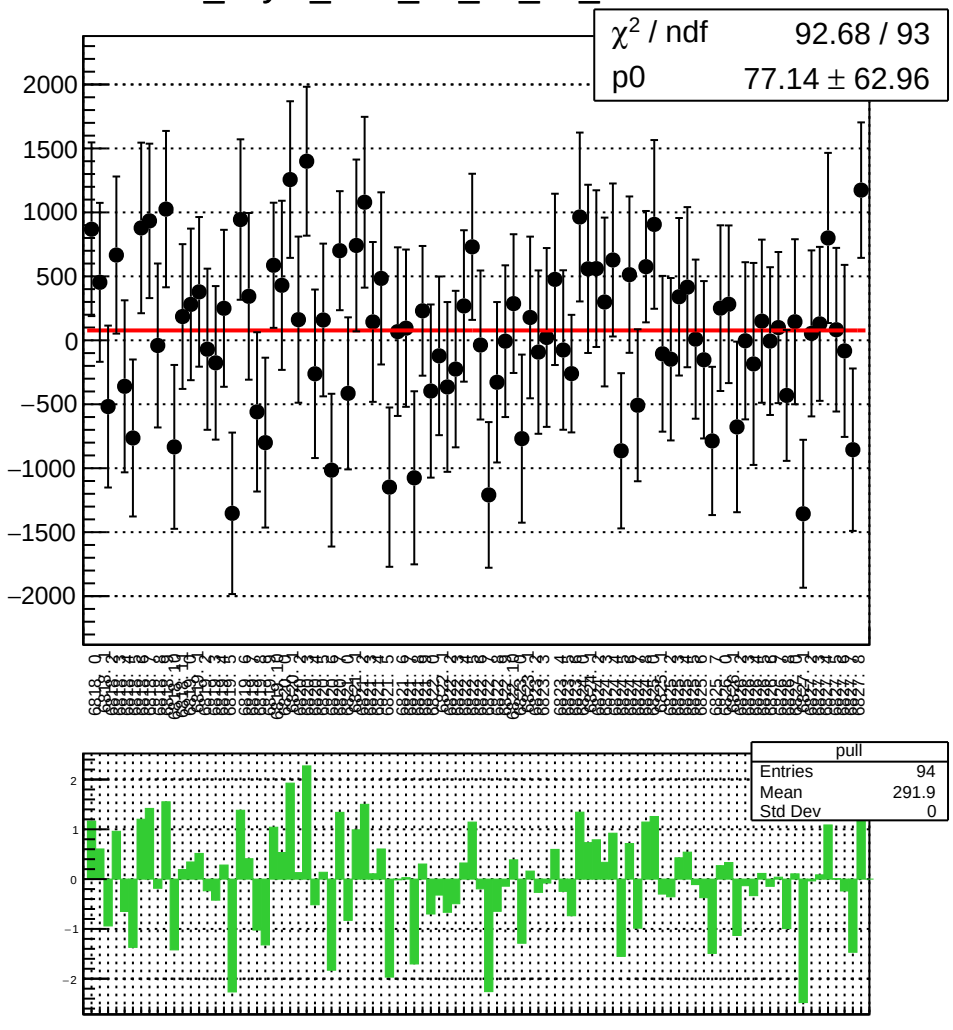

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.68 / 93
p0 77.14 ± 62.96
pull
Entries 94
Mean 291.9
Std Dev 0

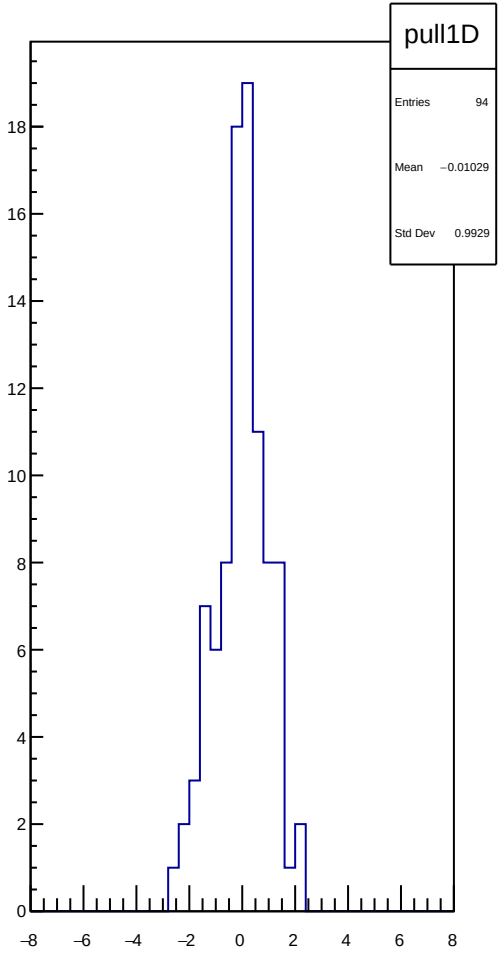

pull1D
Entries 94
Mean −0.01029
Std Dev 0.9929

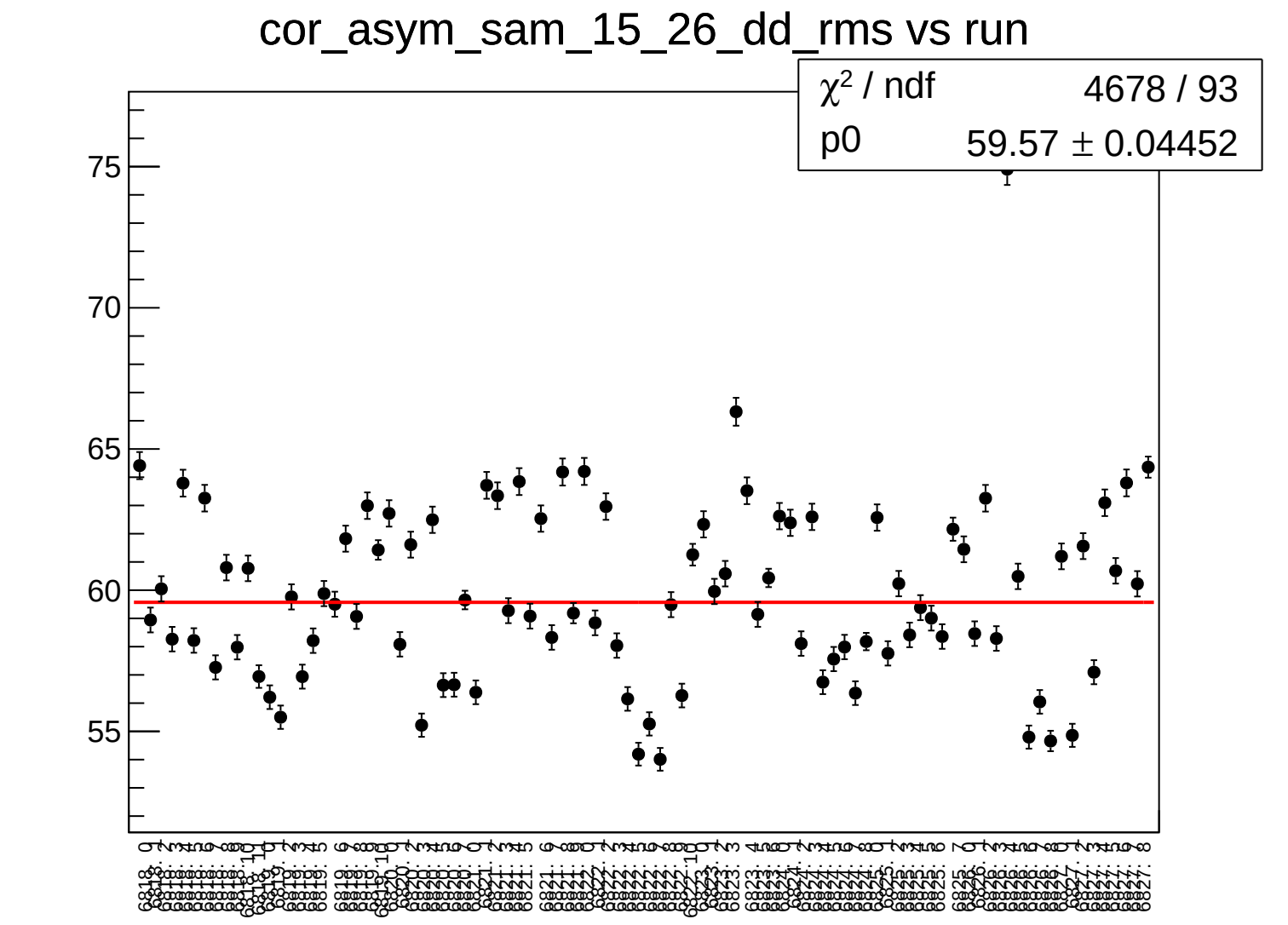

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 4678 / 93
p0 59.57 ± 0.04452
75
70
65
60
55

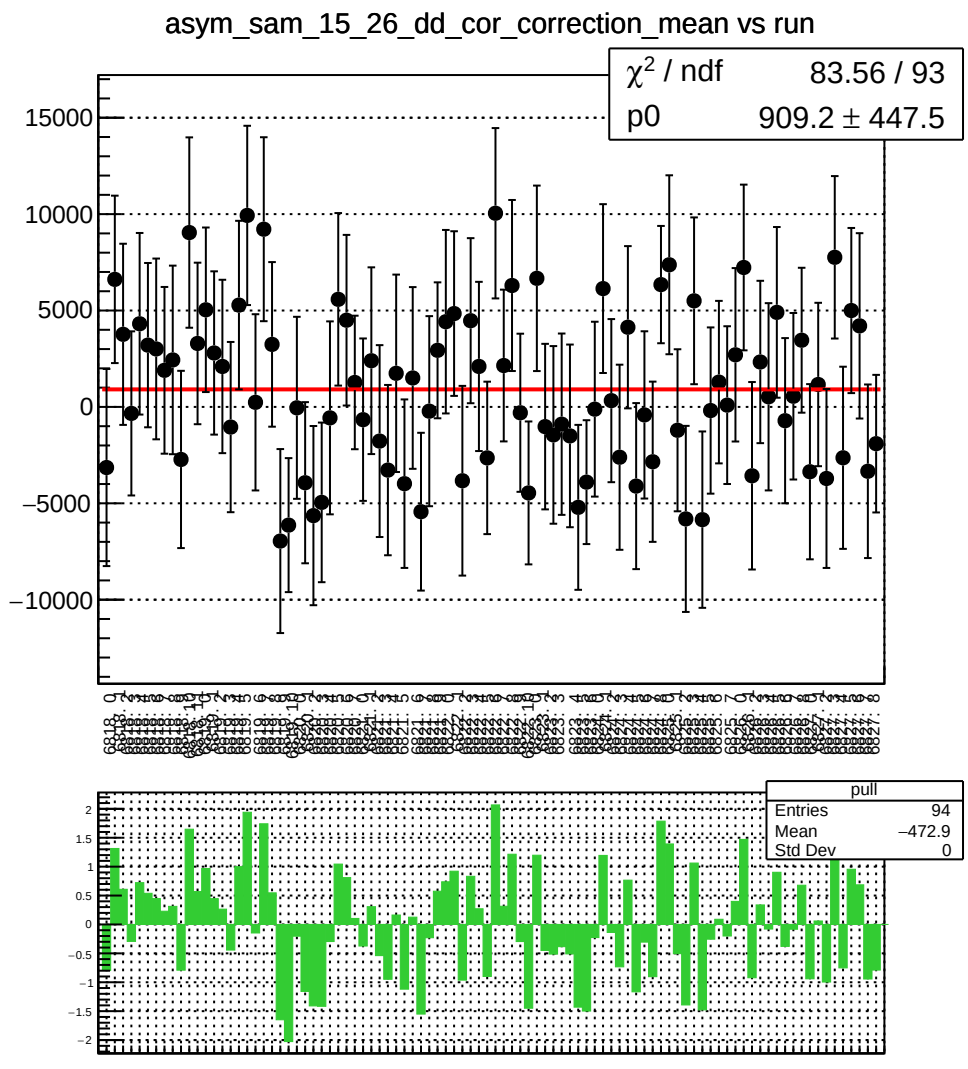

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 83.56 / 93
p0 909.2 ± 447.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −472.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.004648
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

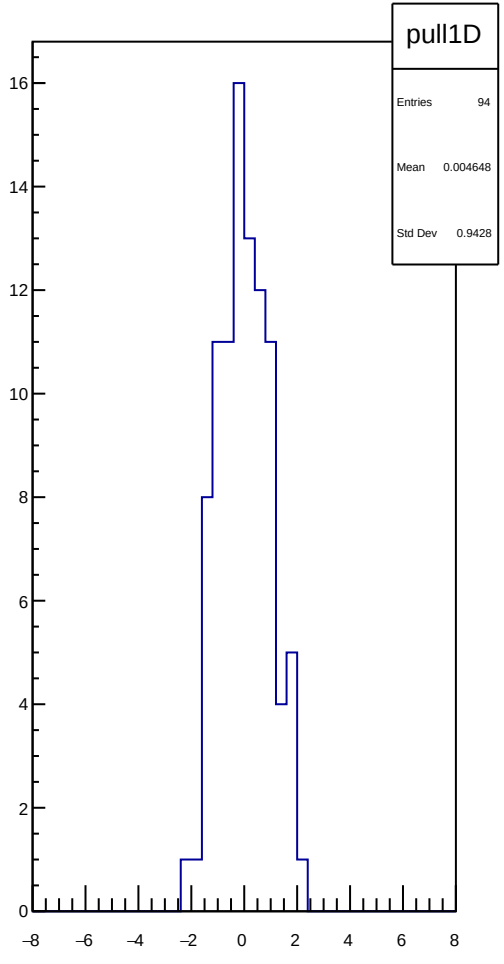

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 5731 / 93
p0 423.3 ± 0.3164
500
480
460
440
420
400
380
360

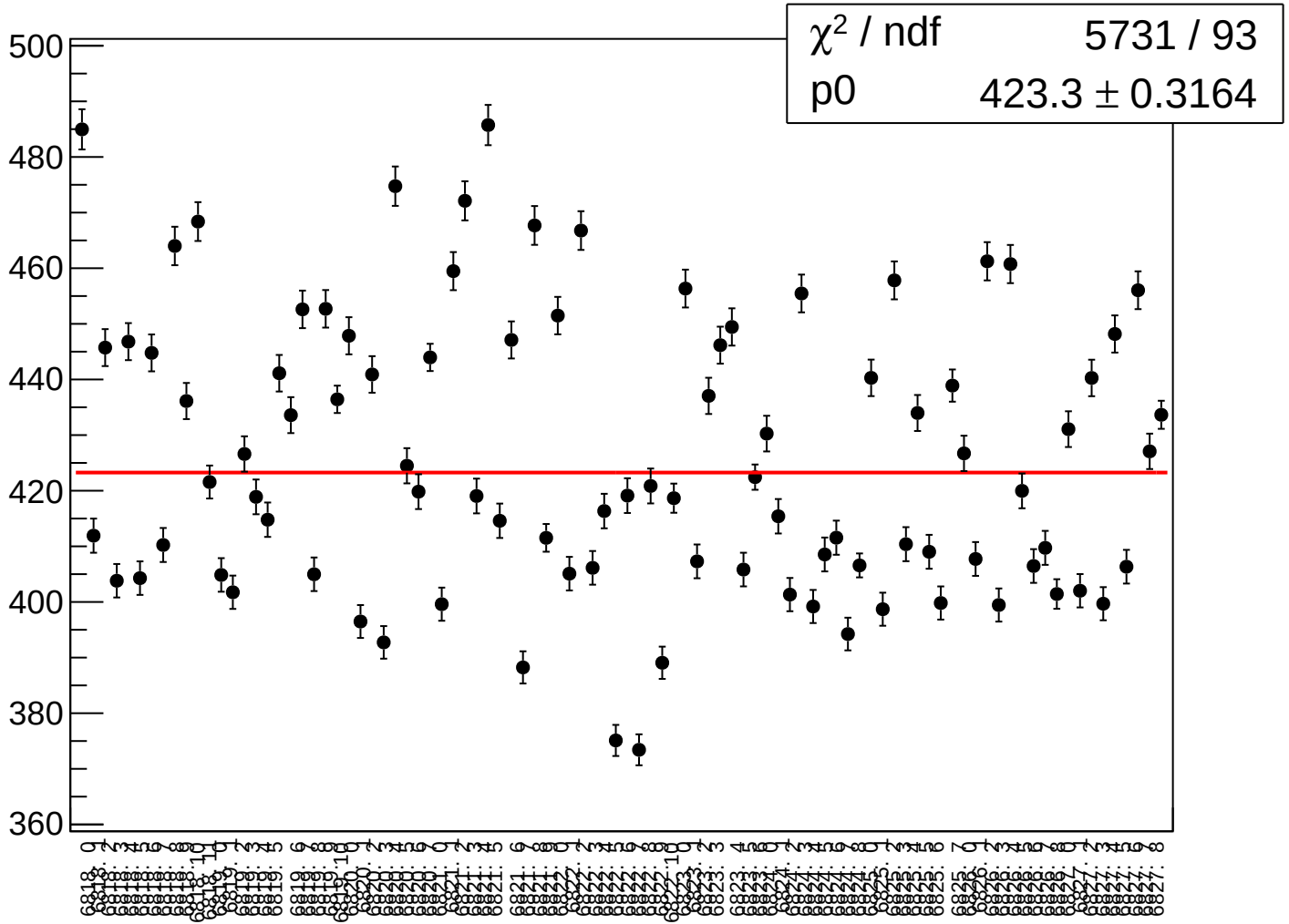

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.68 / 93
p0 77.14 ± 62.96
pull
Entries 94
Mean 291.9
Std Dev 0

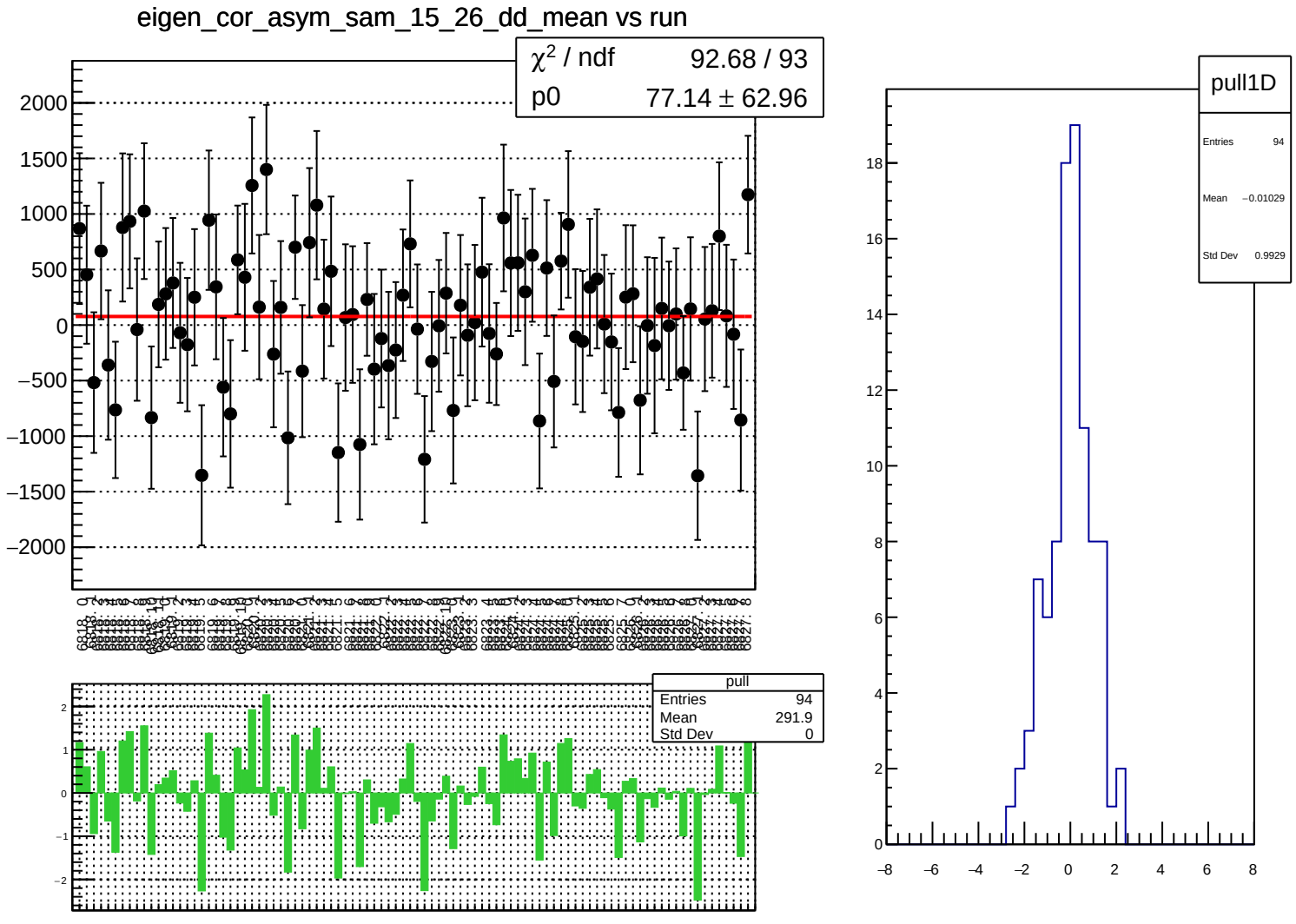

pull1D
Entries 94
Mean −0.01029
Std Dev 0.9929

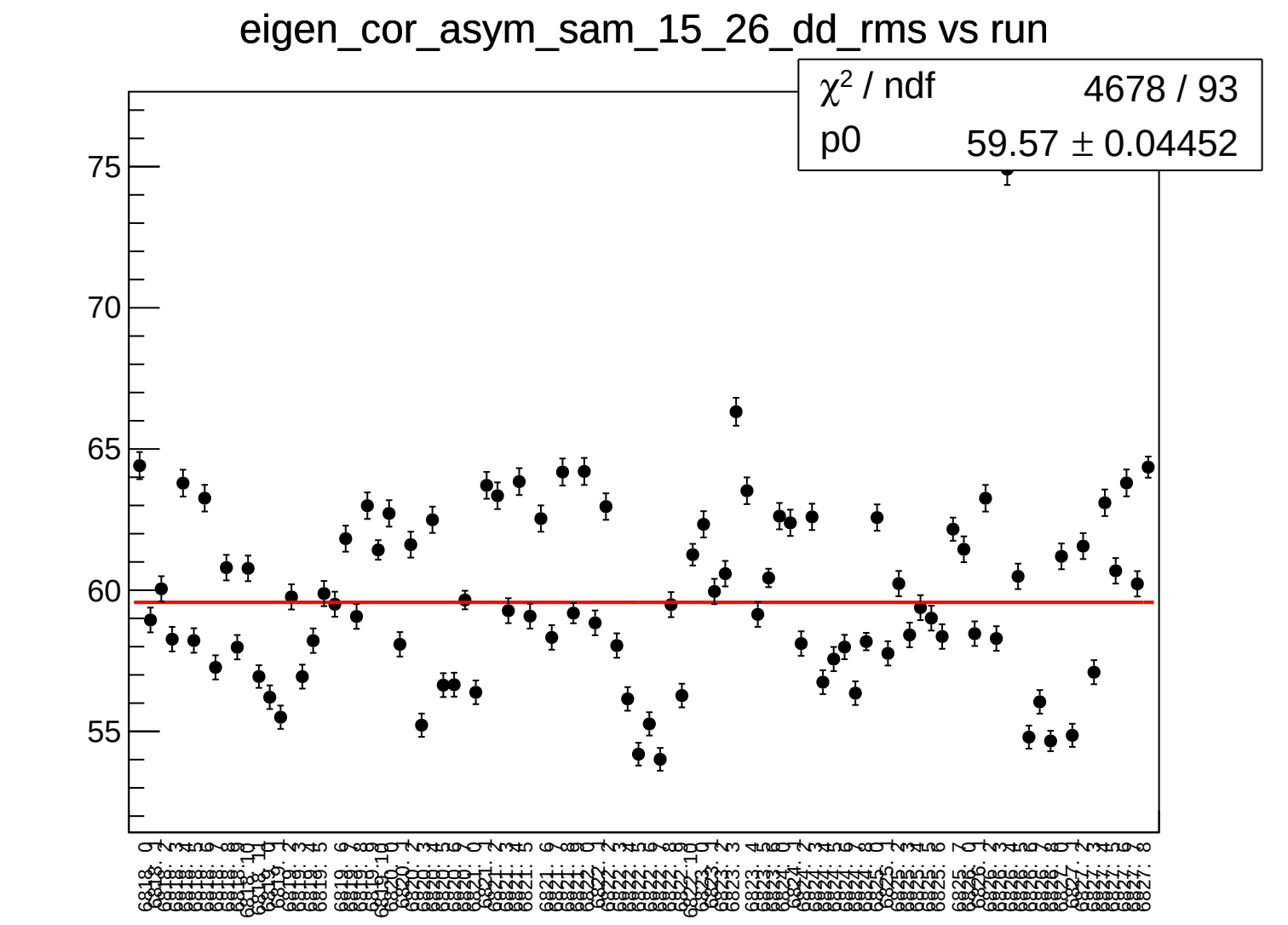

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4678 / 93
p0 59.57 ± 0.04452
75
70
65
60
55

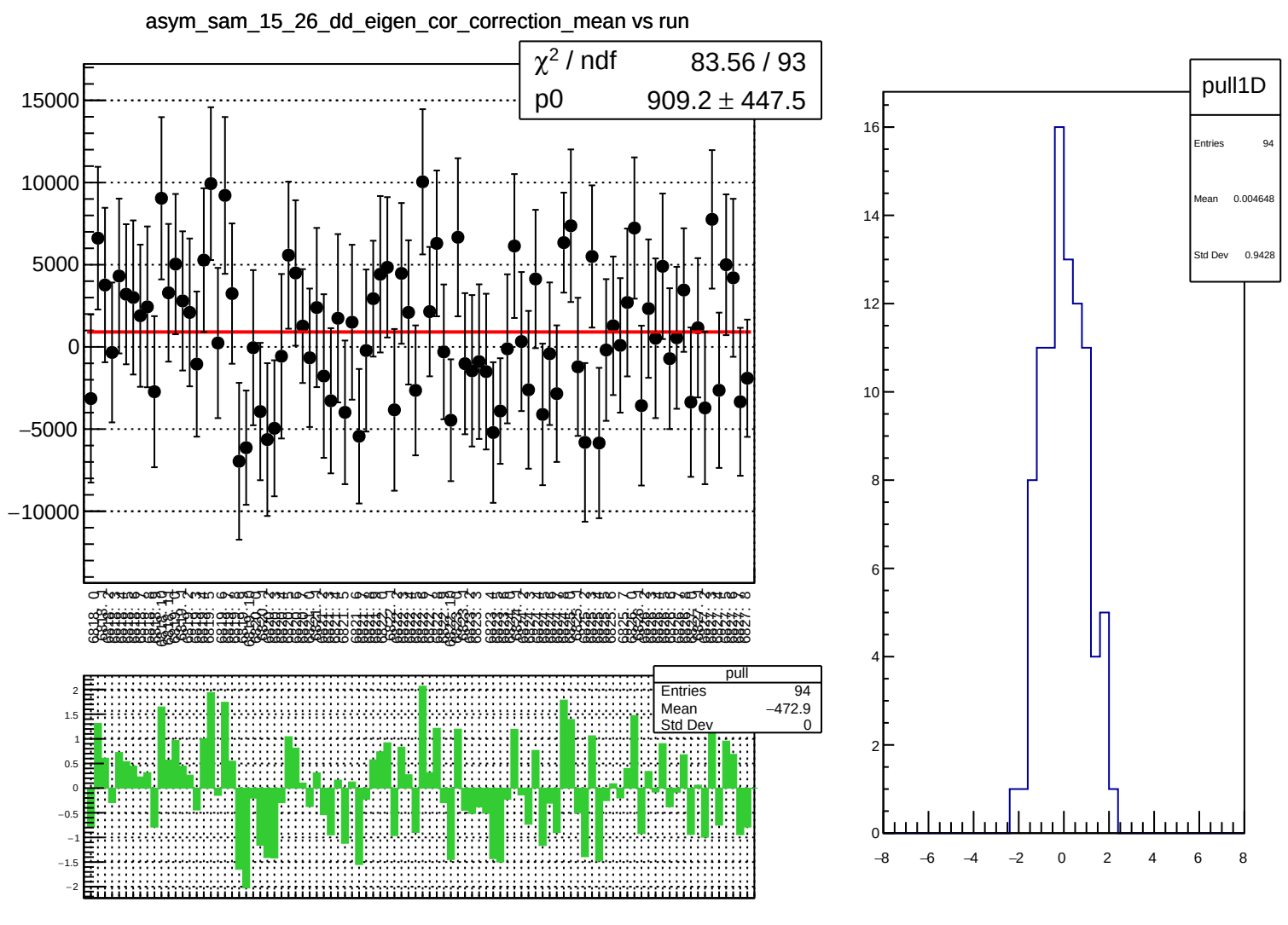

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 83.56 / 93
p0 909.2 ± 447.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −472.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

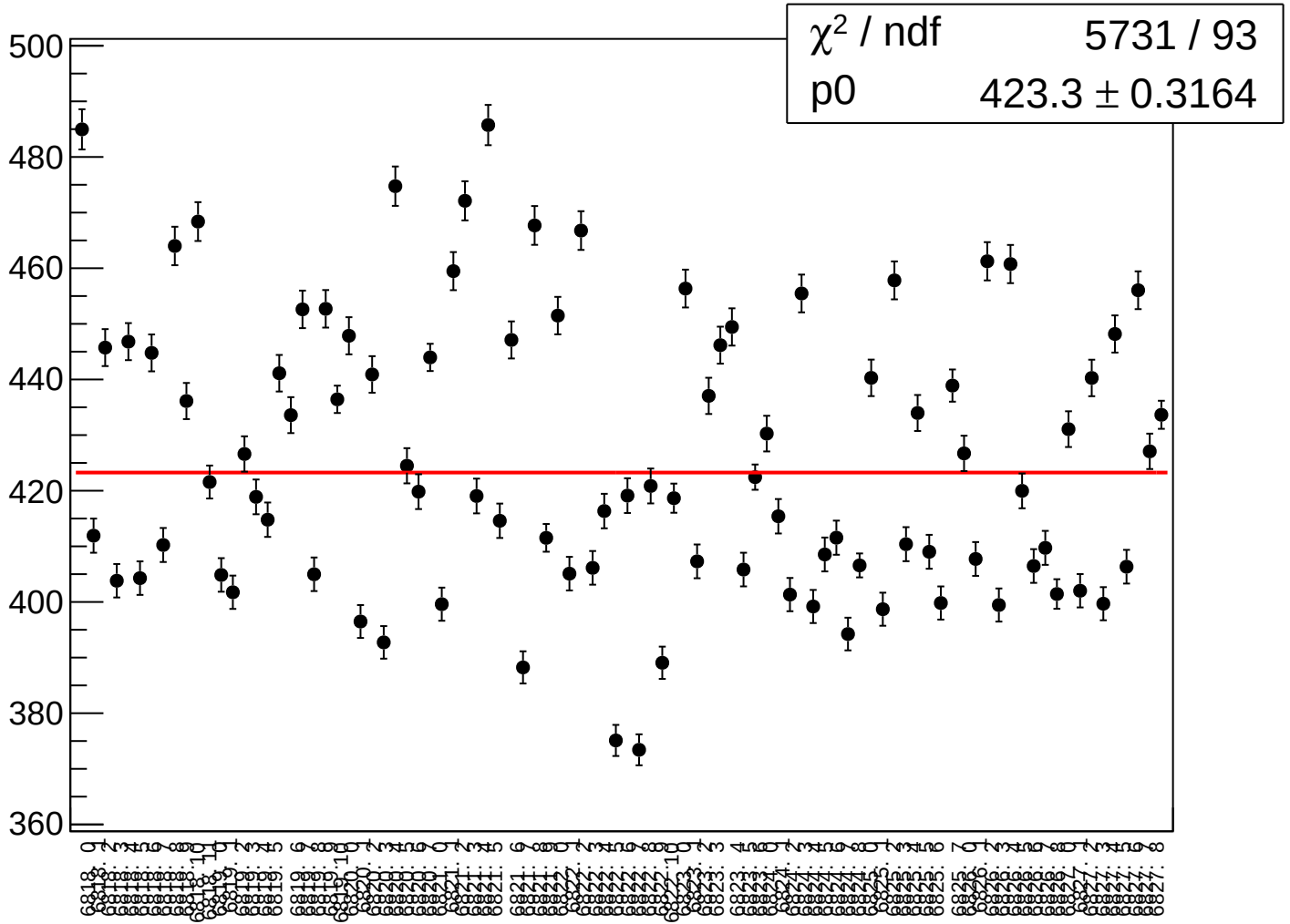

pull1D
Entries 94
Mean 0.004648
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

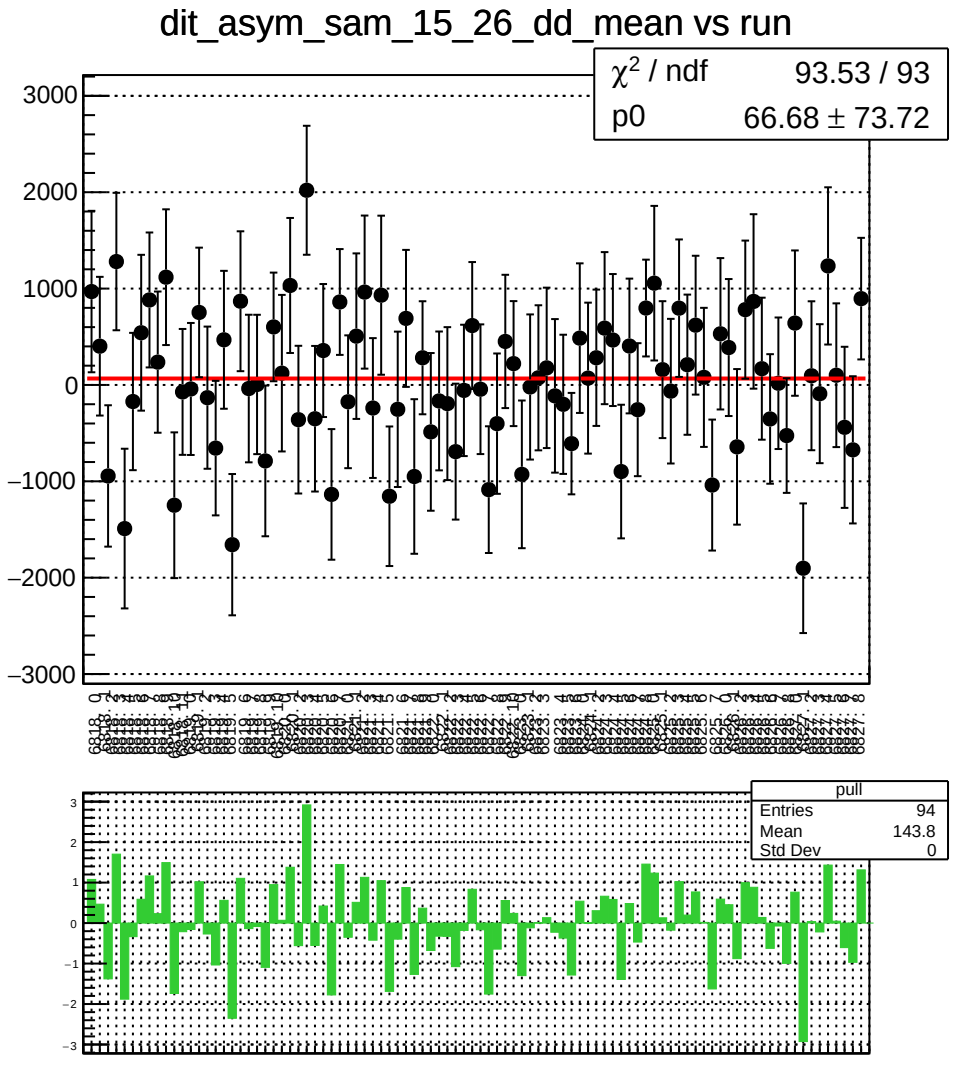

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 5731 / 93
p0 423.3 ± 0.3164
500
480
460
440
420
400
380
360

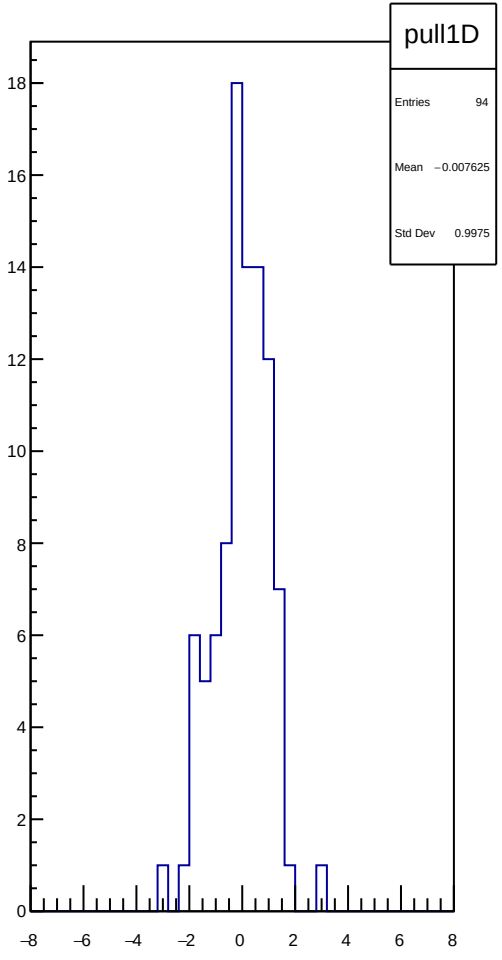

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.68 / 93
p0 77.14 ± 62.96
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 291.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean −0.01029
Std Dev 0.9929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

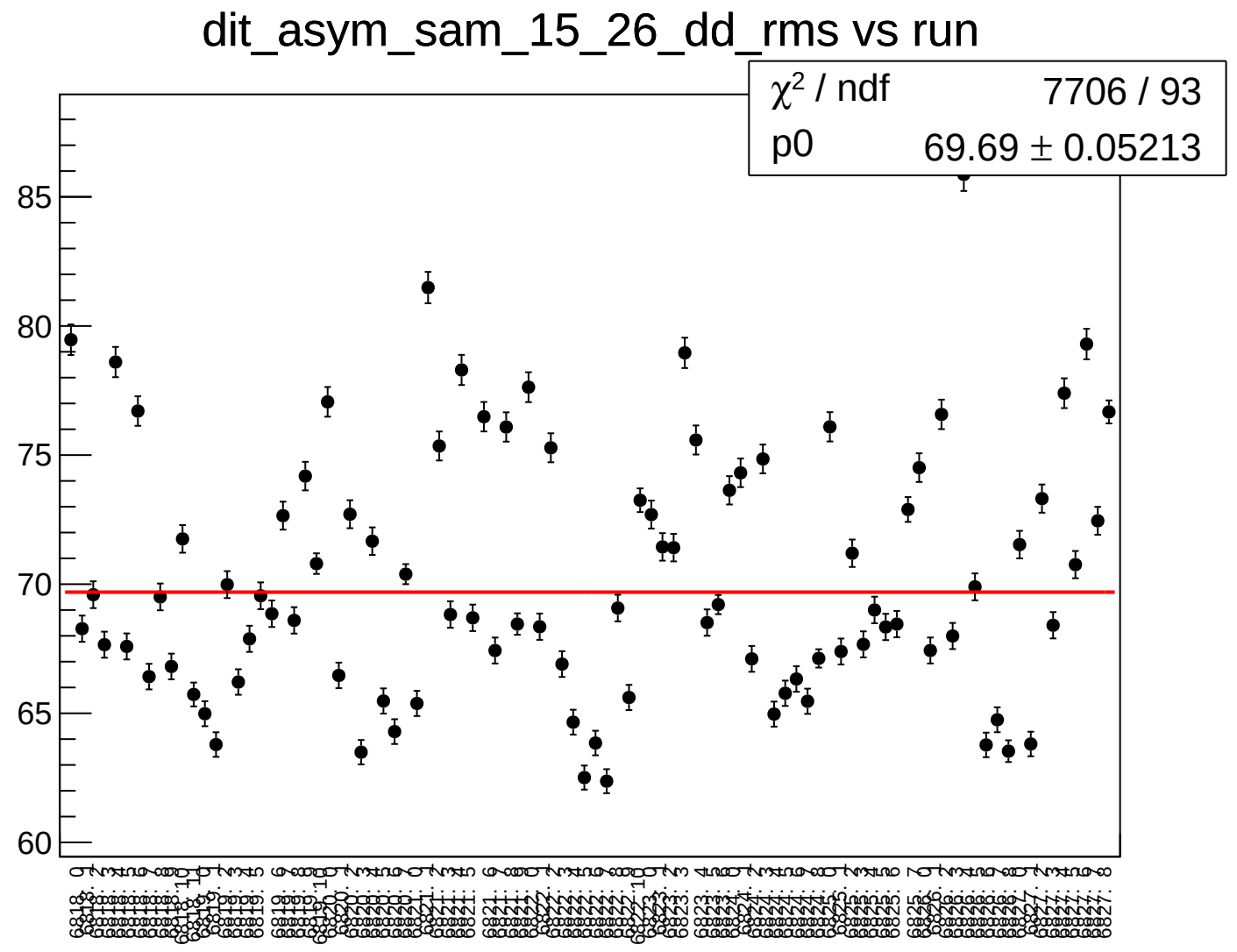

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 4678 / 93
p0 59.57 ± 0.04452
75
70
65
60
55

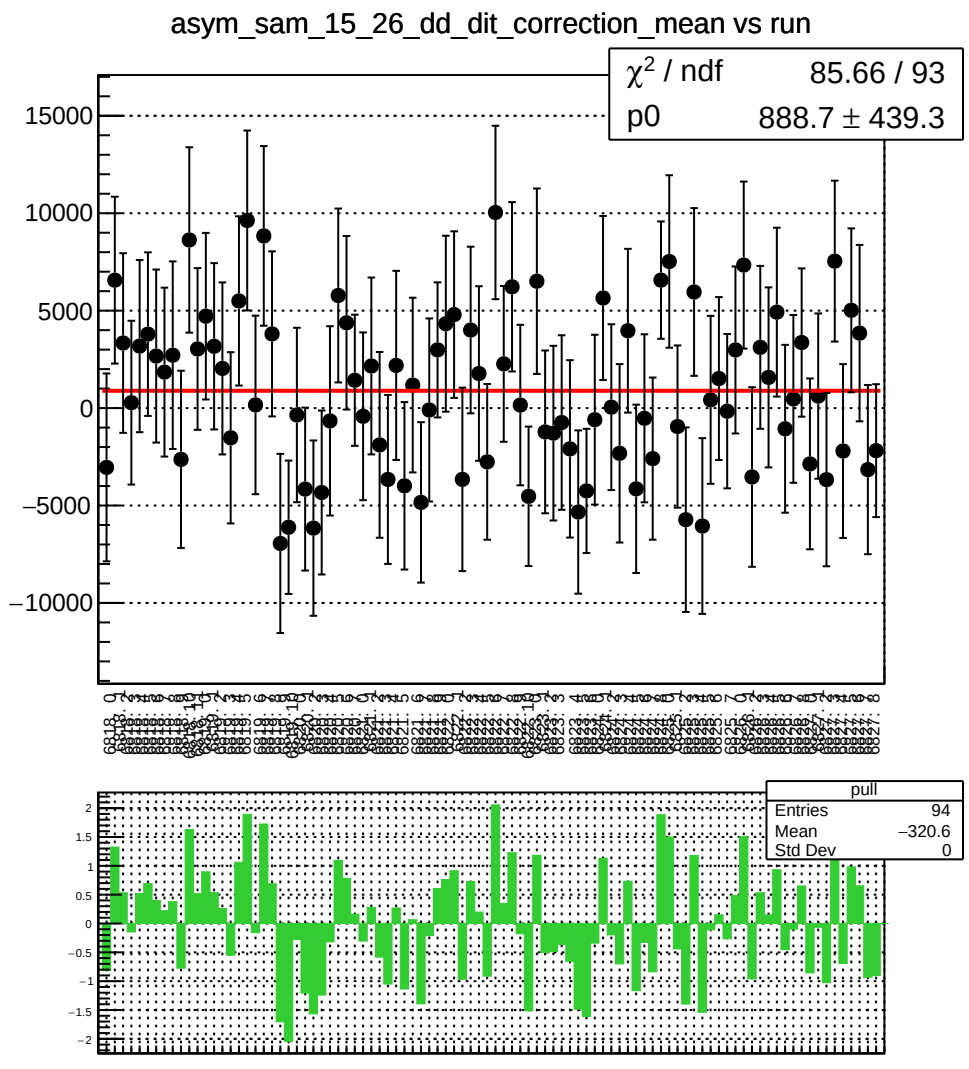

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.56 / 93
p0 909.2 ± 447.5
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −472.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.004648
Std Dev 0.9428
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

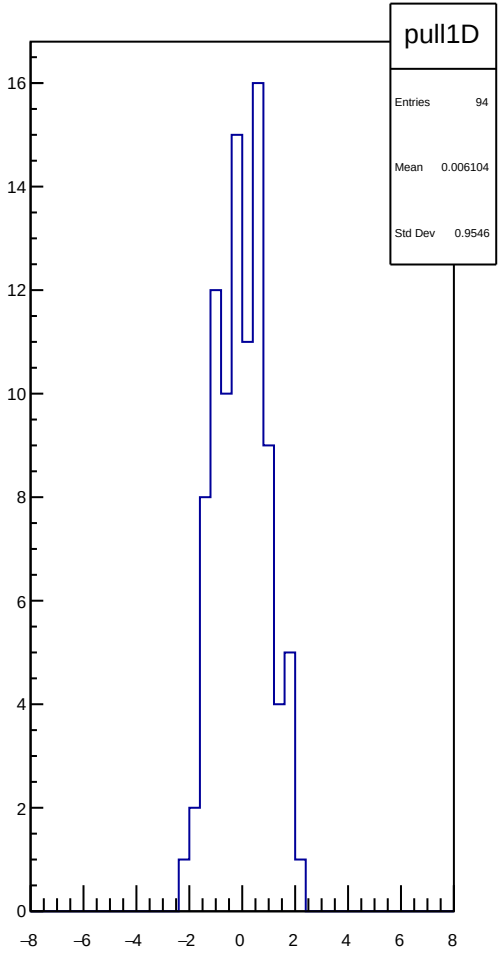

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5731 / 93
p0 423.3 ± 0.3164
500
480
460
440
420
400
380
360

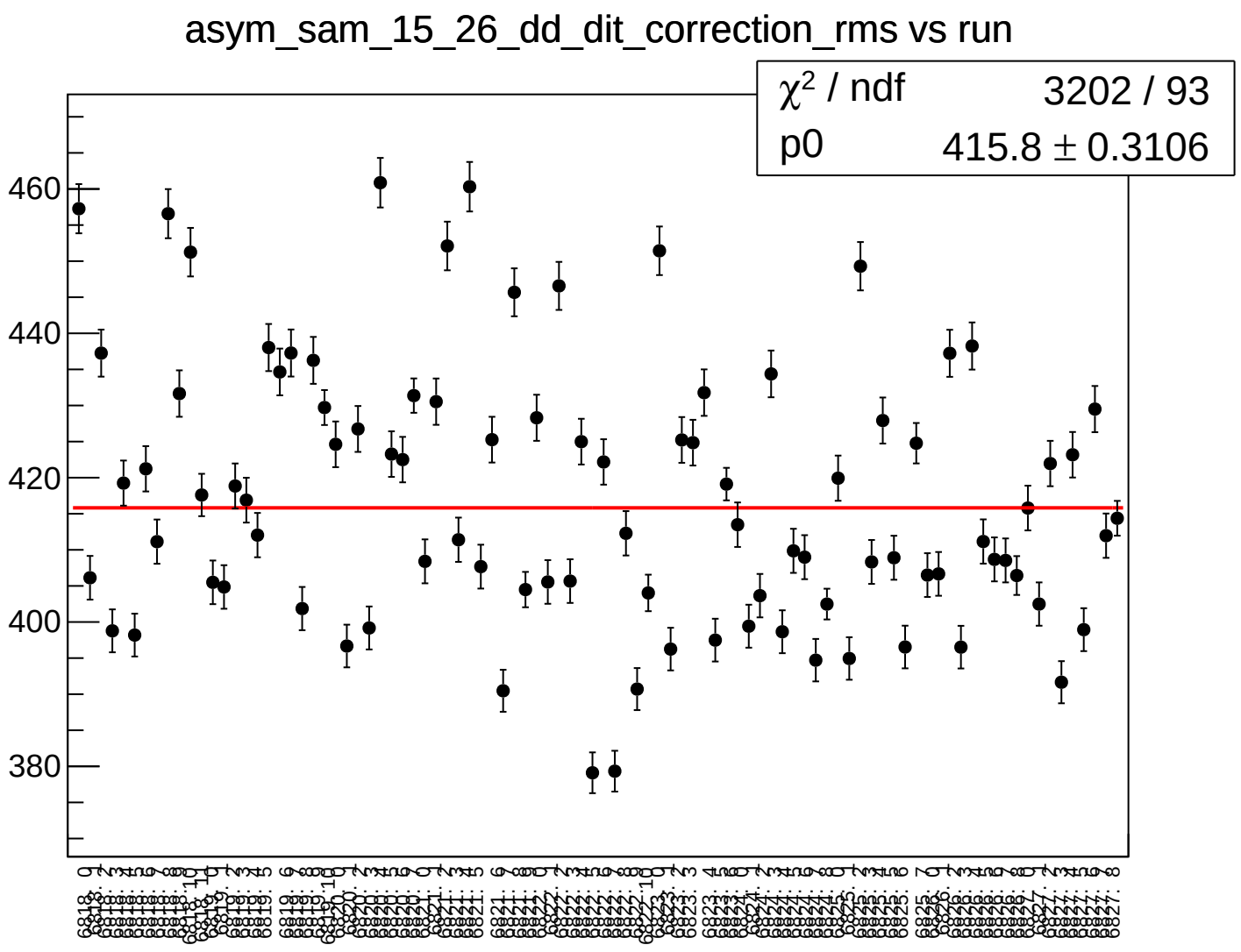

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.53 / 93
p0 66.68 ± 73.72
pull
Entries 94
Mean 143.8
Std Dev 0

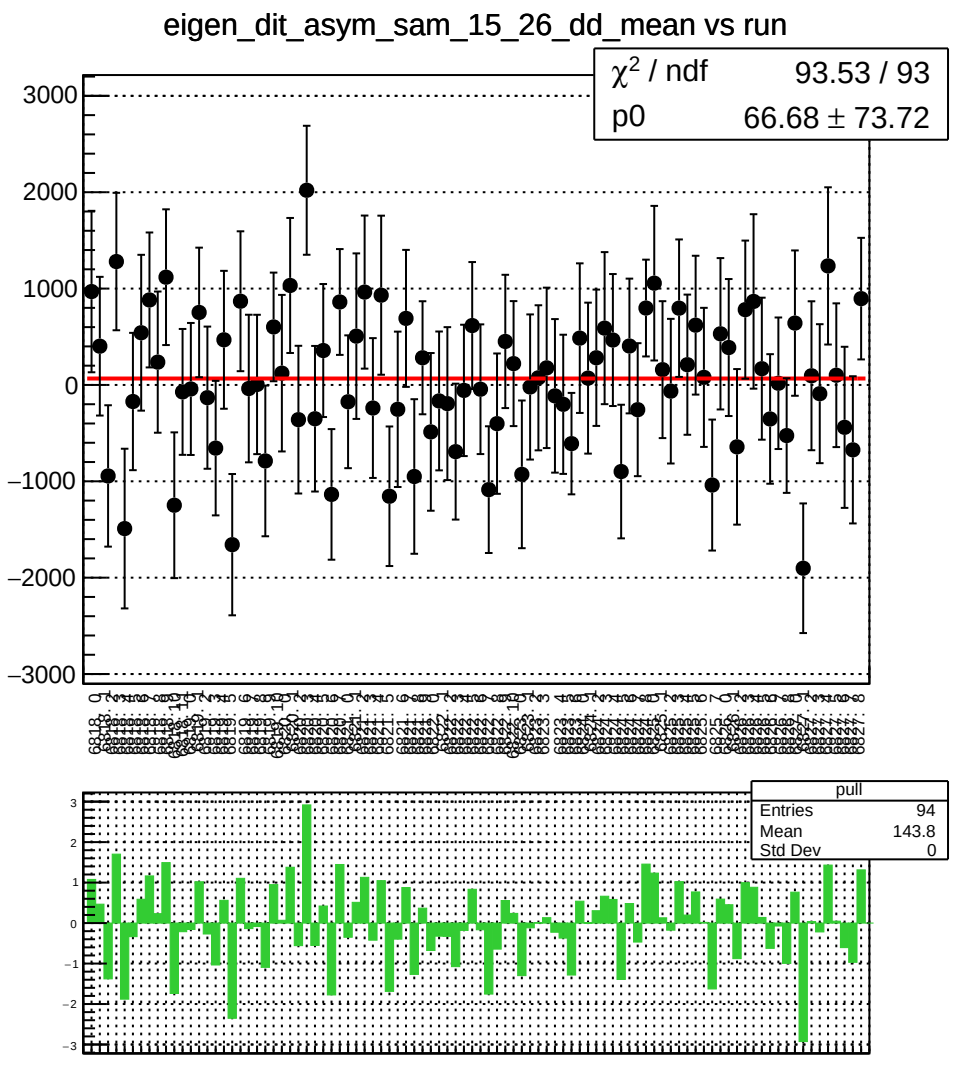

pull1D
Entries 94
Mean −0.007625
Std Dev 0.9975

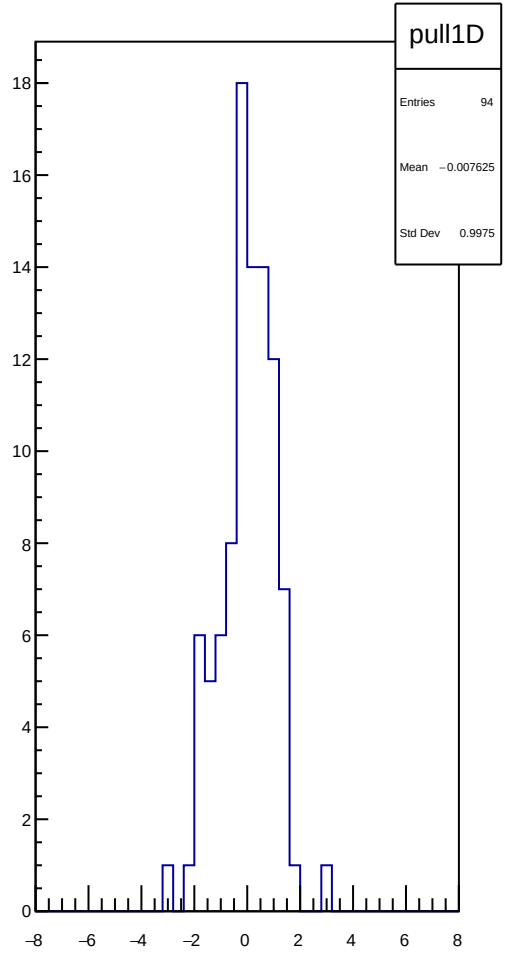

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7706 / 93
p0 69.69 ± 0.05213
85
80
75
70
65
60

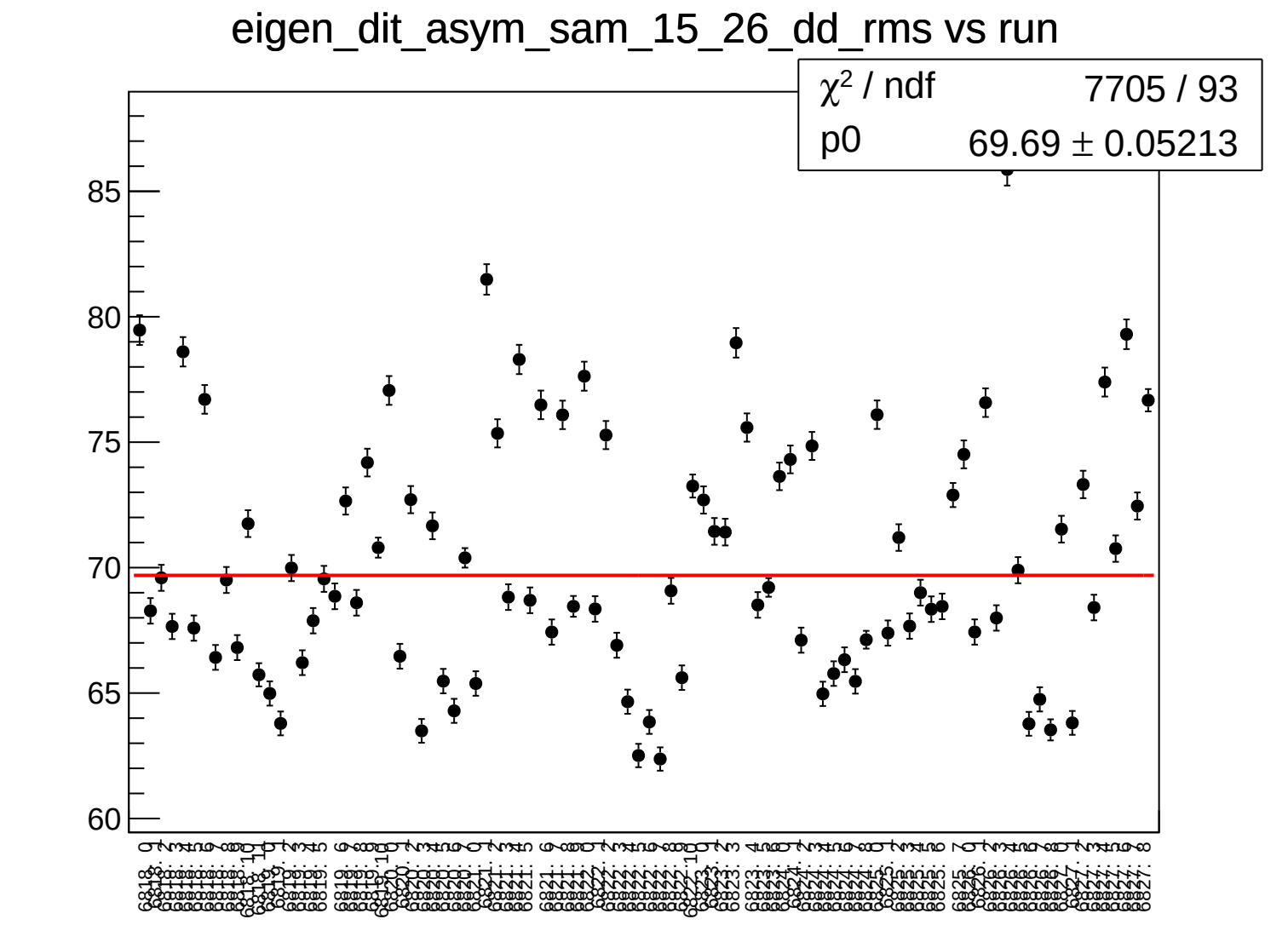

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 85.66 / 93
p0 888.7 ± 439.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −320.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

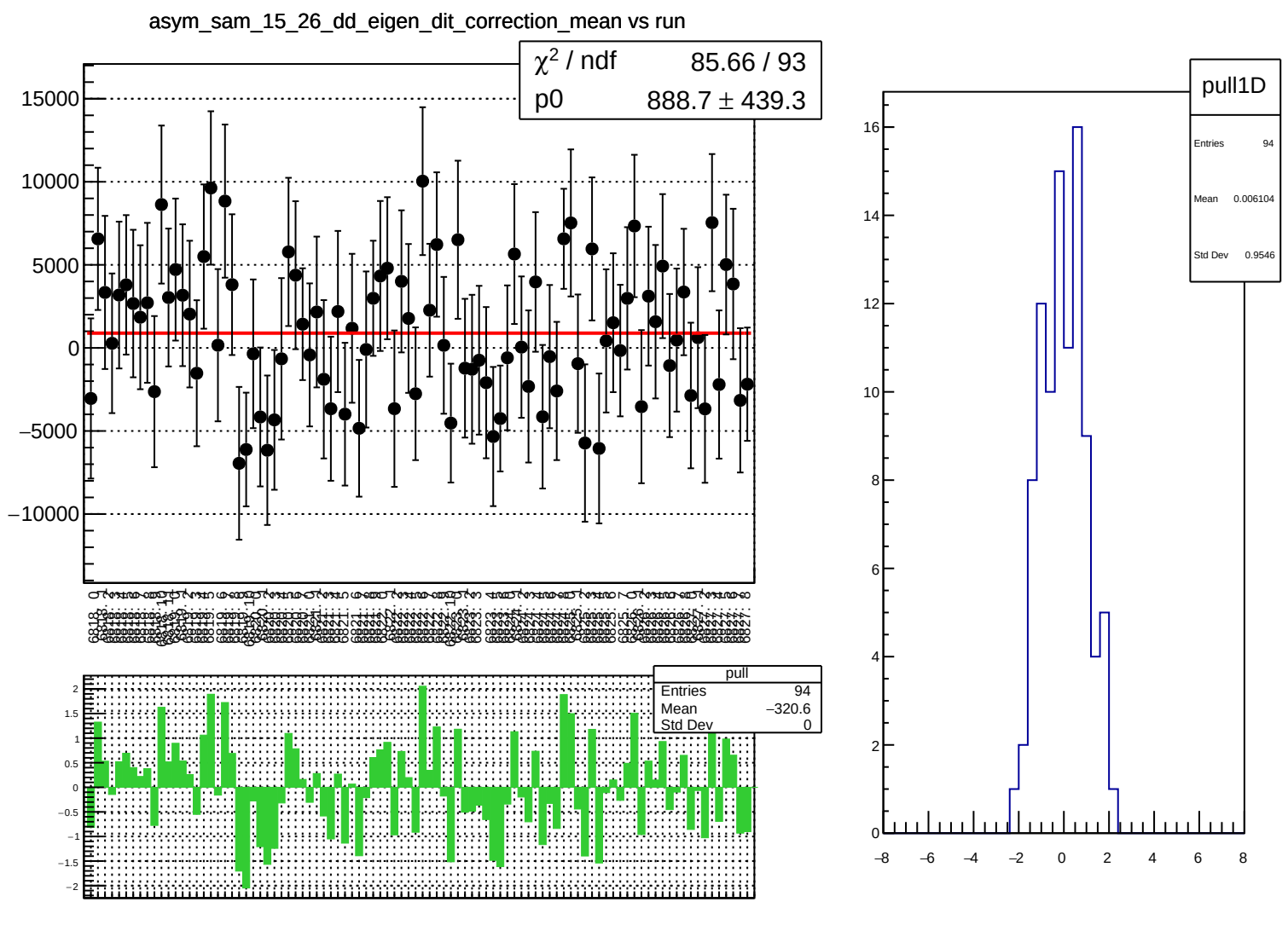

pull1D
Entries 94
Mean 0.006104
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

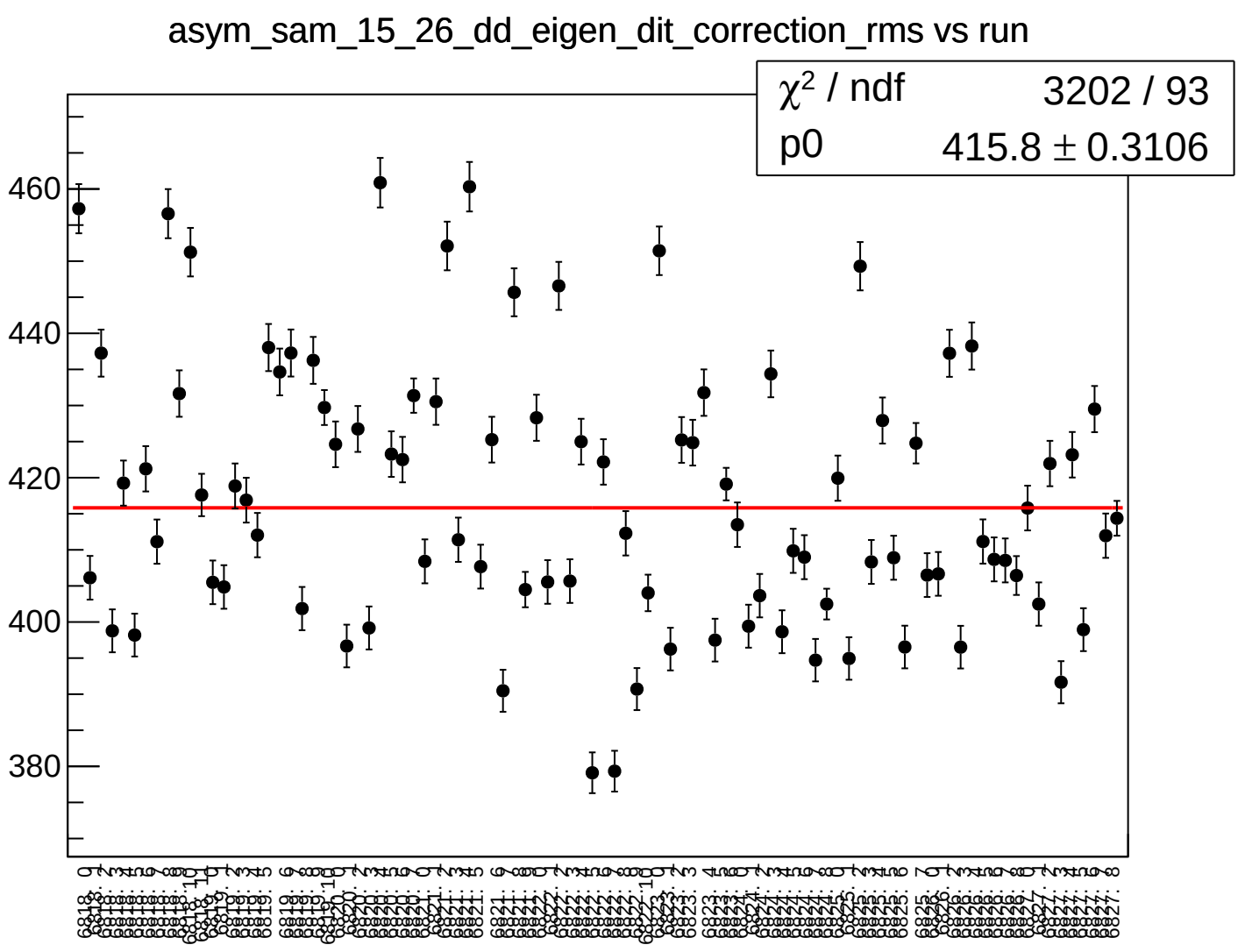

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 3202 / 93
p0 415.8 ± 0.3106
460
440
420
400
380

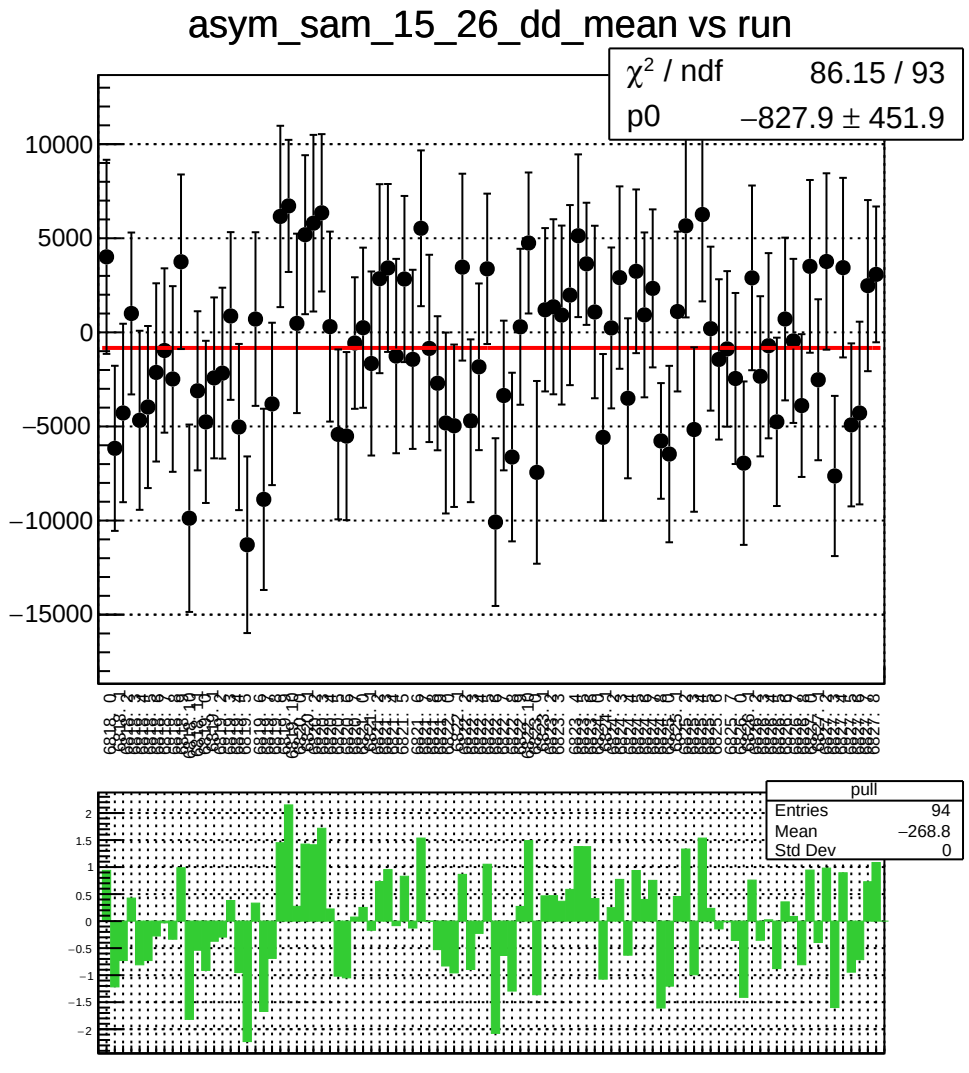

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 93.53 / 93
p0 66.68 ± 73.72
pull
Entries 94
Mean 143.8
Std Dev 0

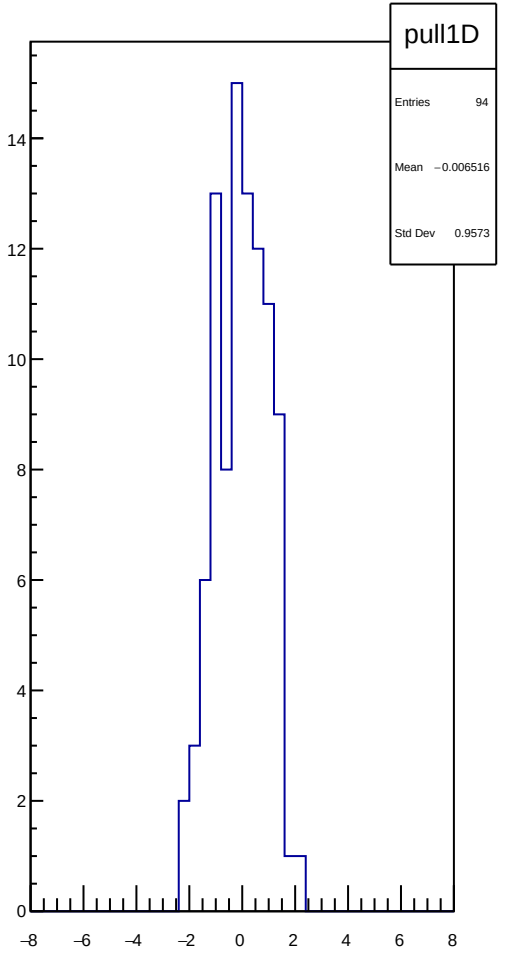

pull1D
Entries 94
Mean −0.007625
Std Dev 0.9975

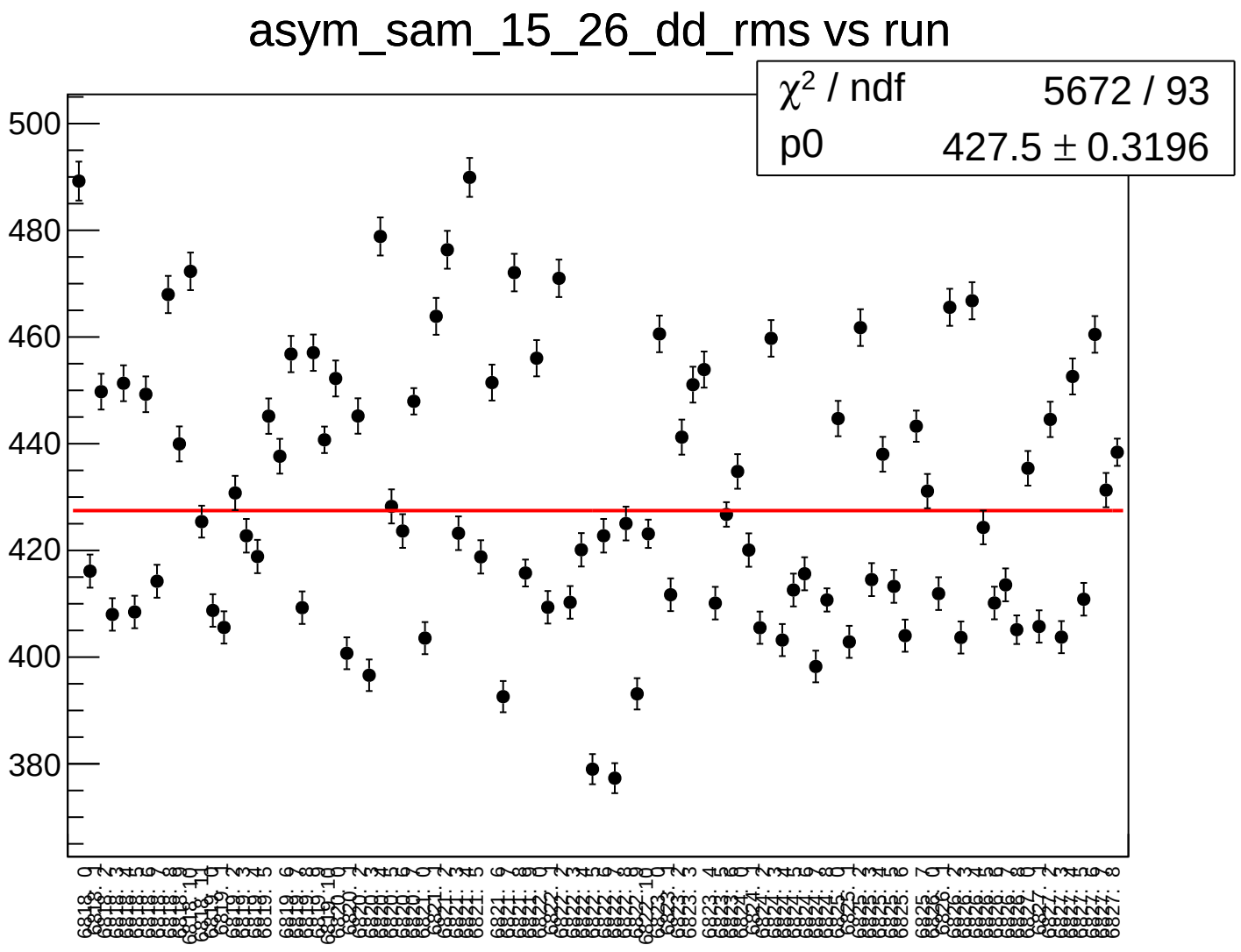

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 7705 / 93
p0 69.69 ± 0.05213
85
80
75
70
65
60

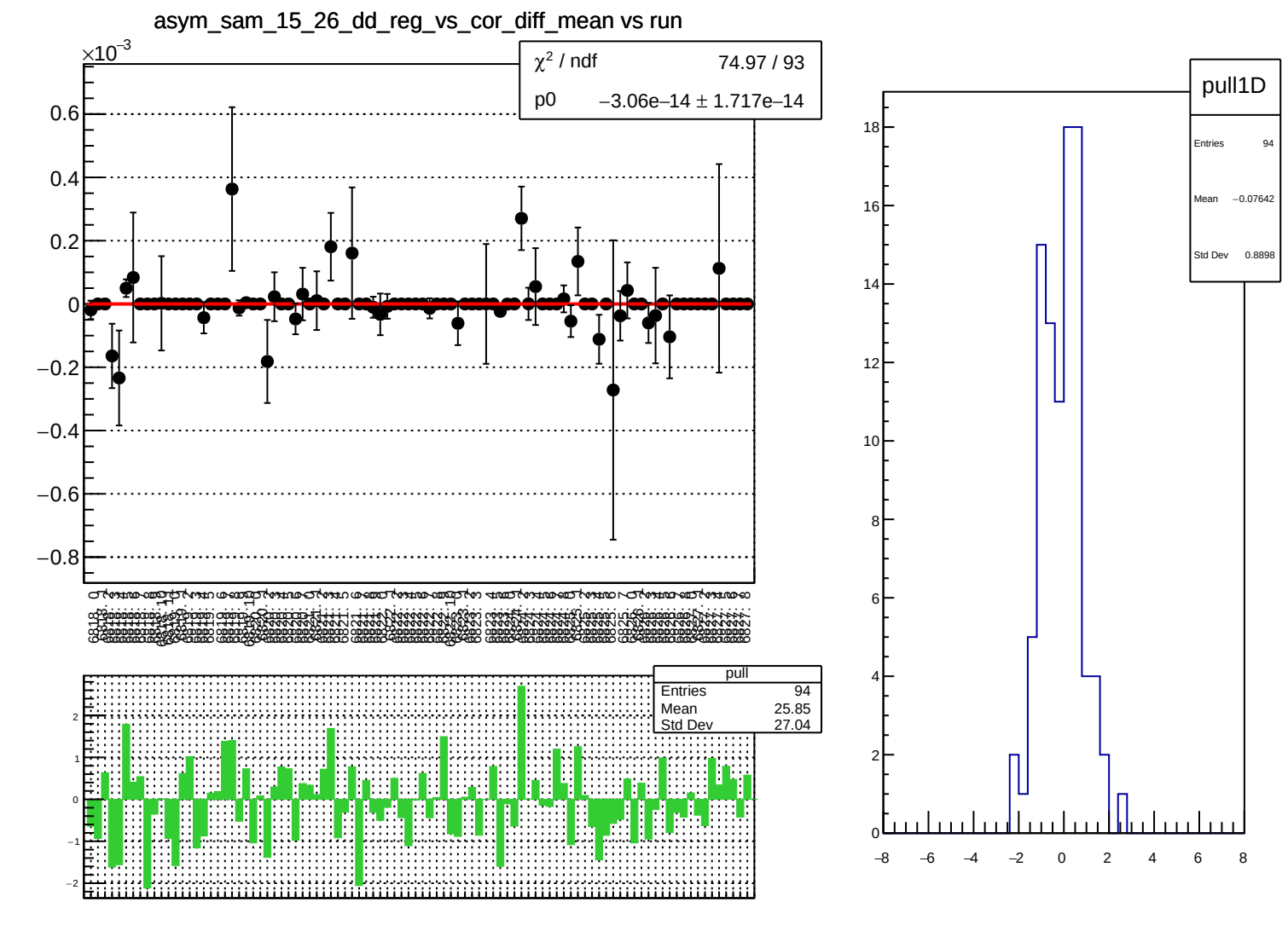

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.66 / 93
p0 888.7 ± 439.3
15000
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −320.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.006104
Std Dev 0.9546
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

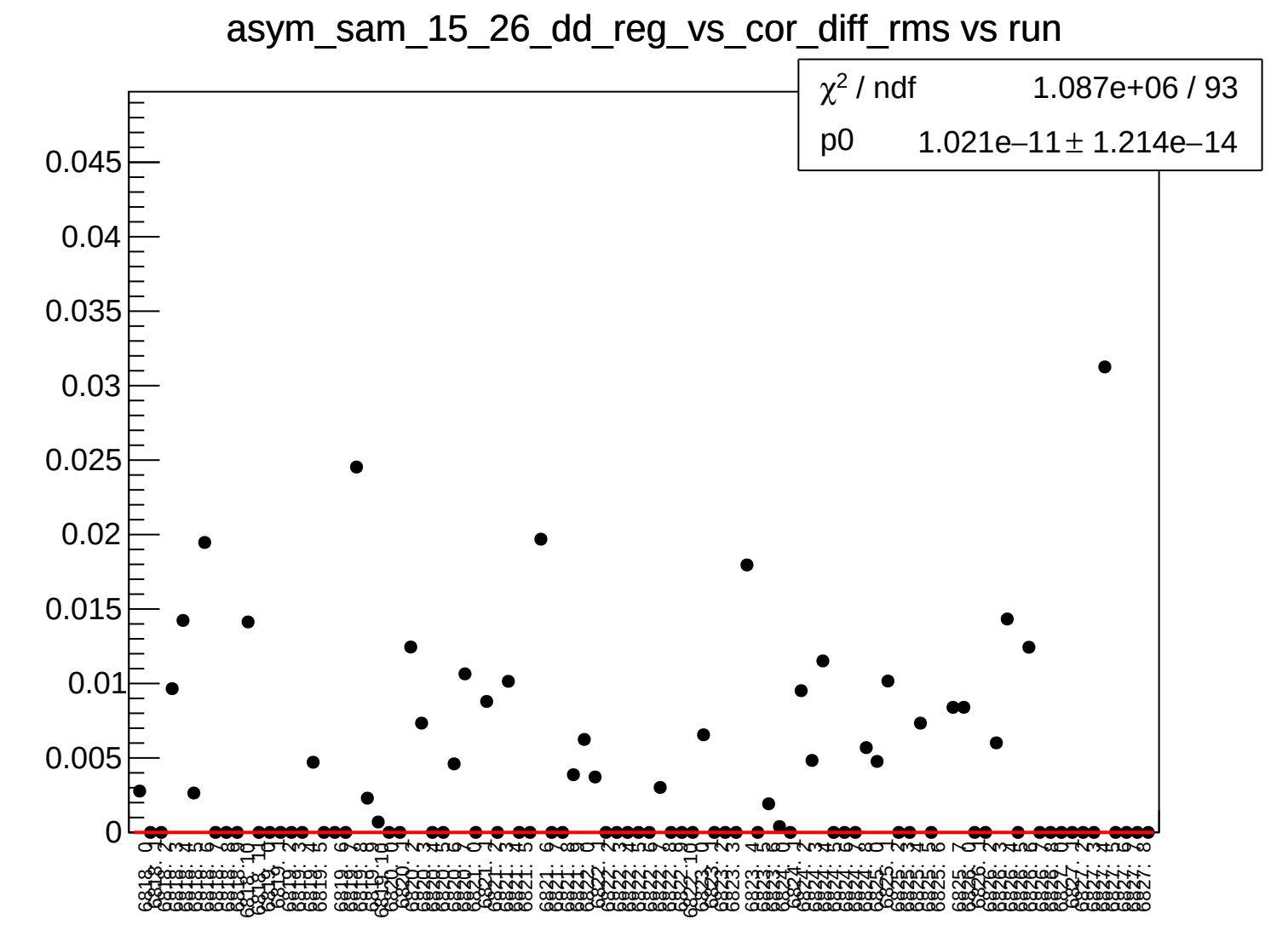

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3202 / 93
p0 415.8 ± 0.3106
460
440
420
400
380

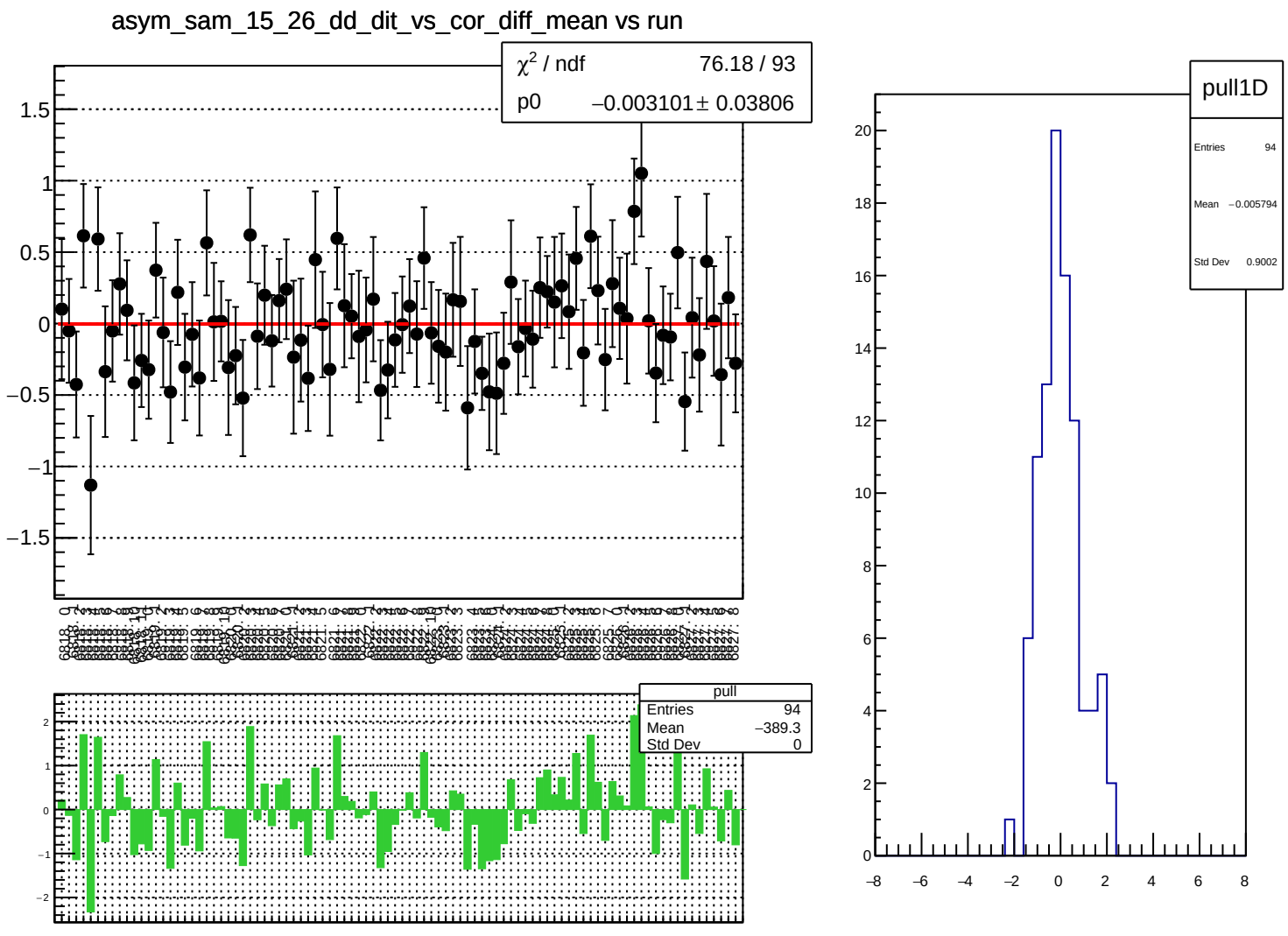

asym_sam_15_26_dd_mean vs run
χ² / ndf 86.15 / 93
p0 −827.9 ± 451.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 94
Mean −268.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

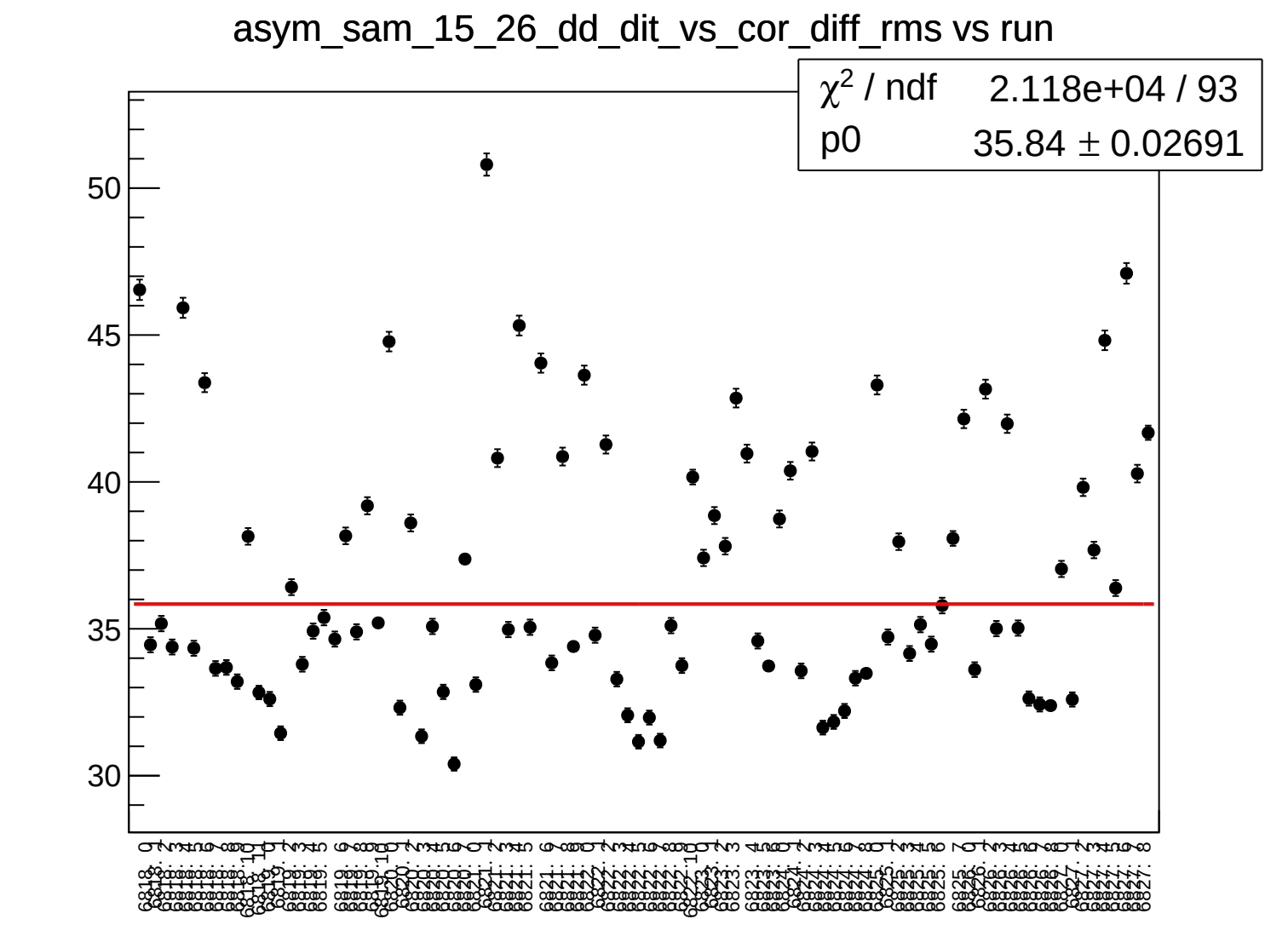

pull1D
Entries 94
Mean −0.006516
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

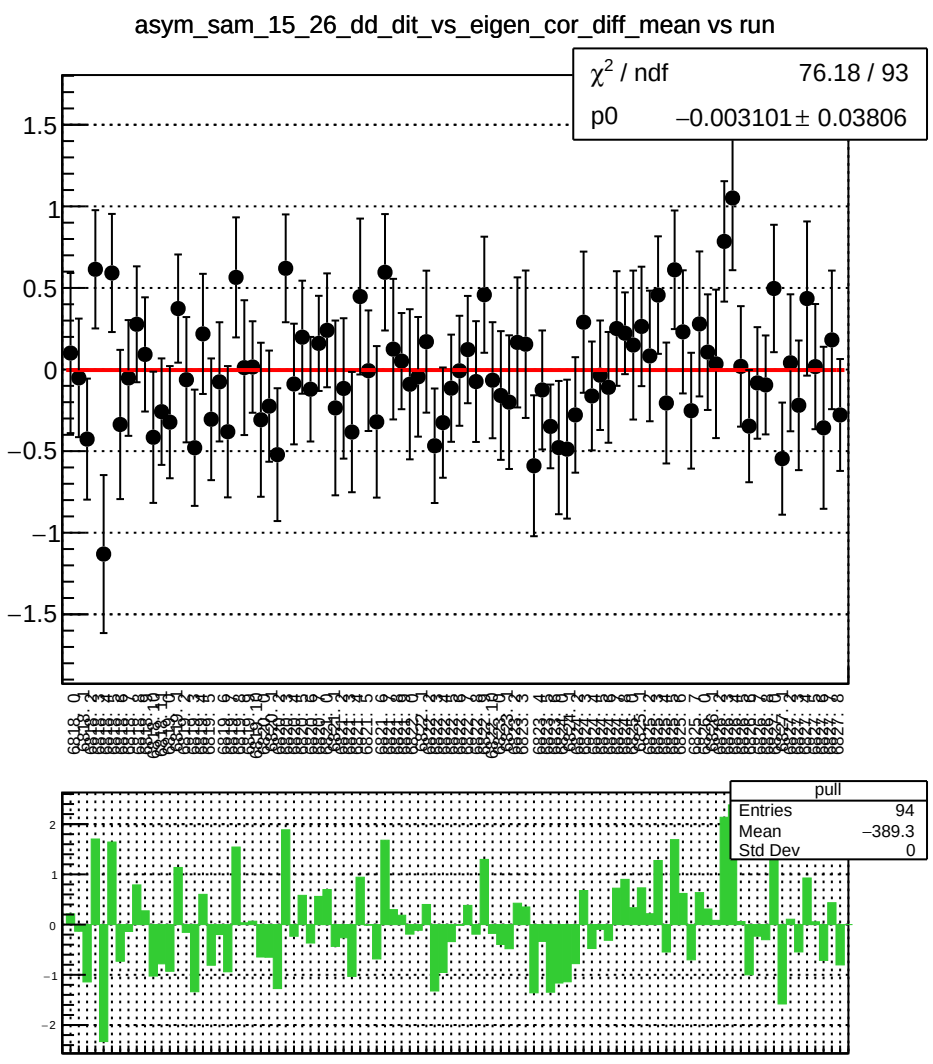

asym_sam_15_26_dd_rms vs run
χ² / ndf 5672 / 93
p0 427.5 ± 0.3196
500
480
460
440
420
400
380

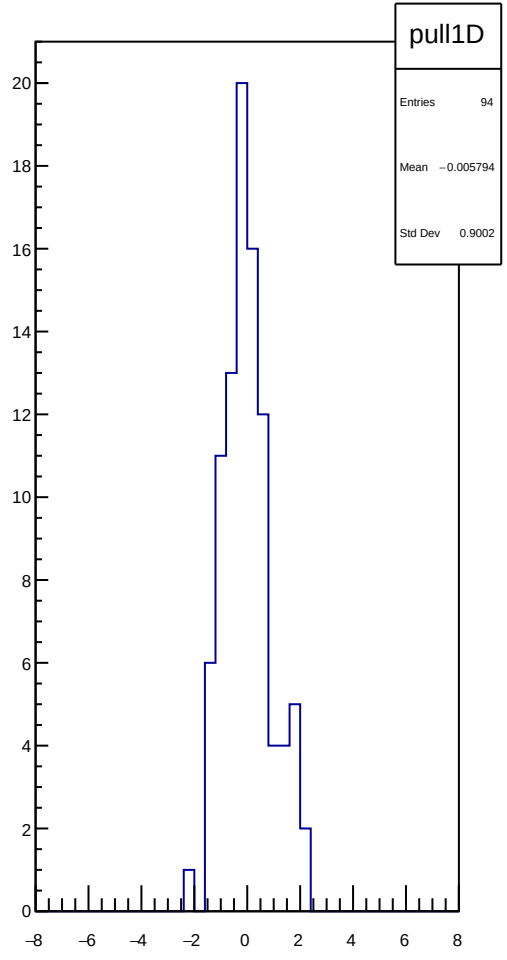

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 74.97 / 93
p0 −3.06e−14 ± 1.717e−14
pull
Entries 94
Mean 25.85
Std Dev 27.04
pull1D
Entries 94
Mean −0.07642
Std Dev 0.8898

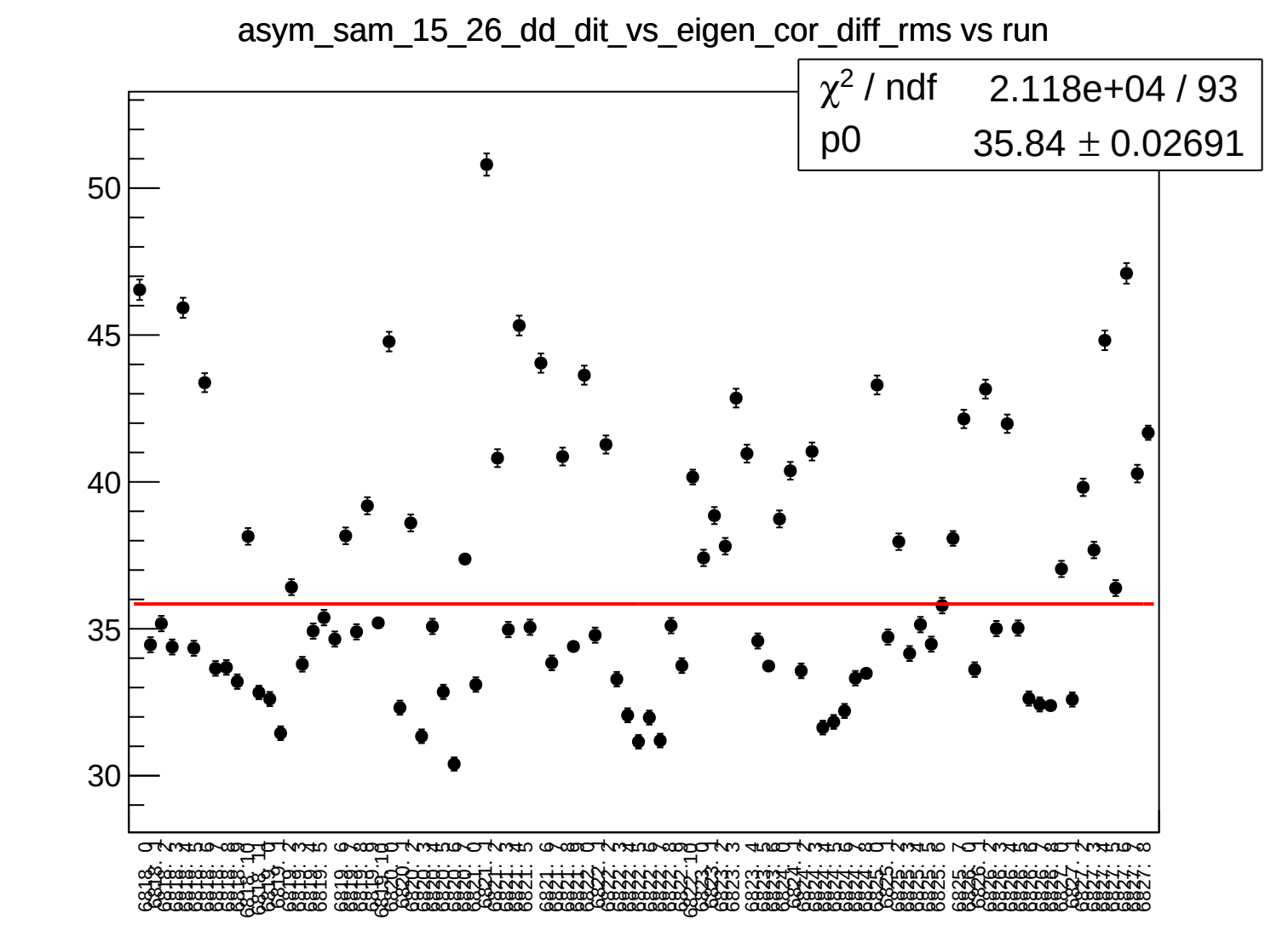

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 93
p0 1.021e−11 ± 1.214e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

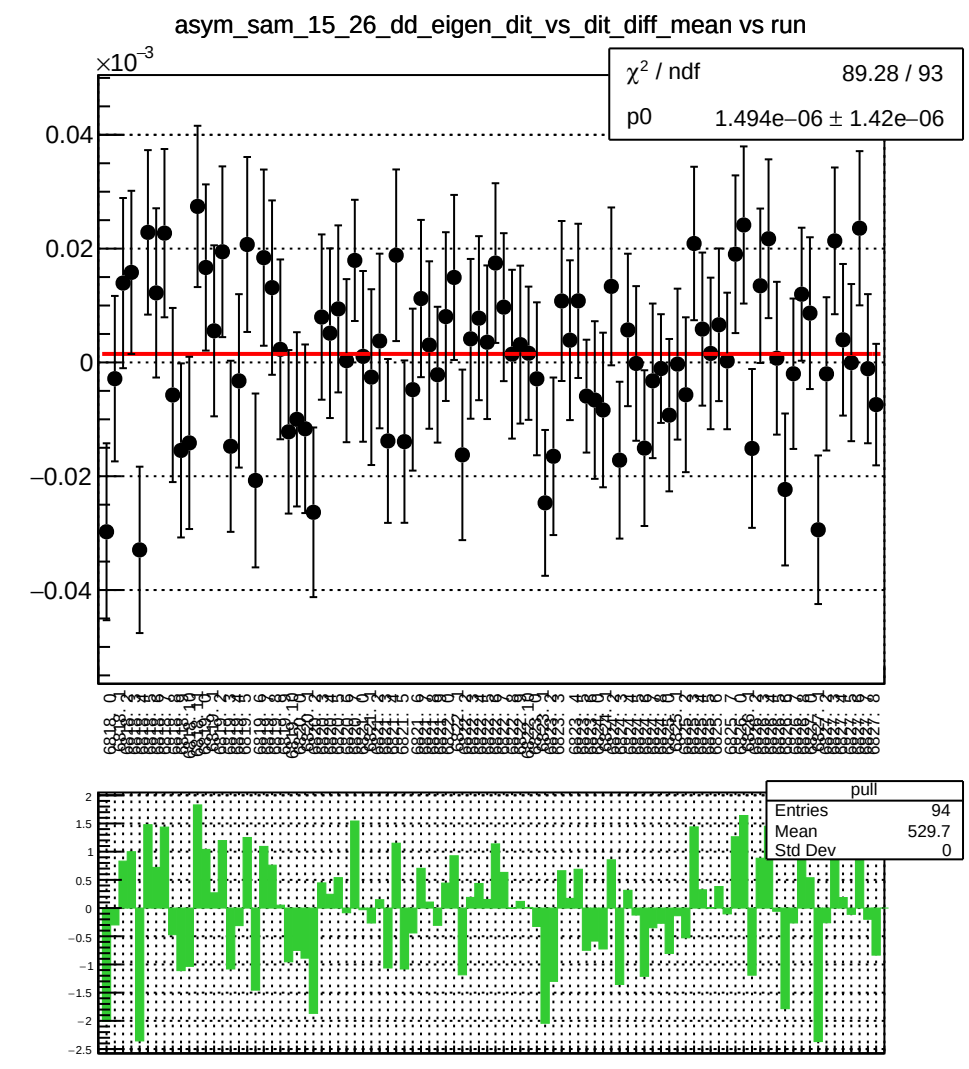

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.18 / 93
p0 −0.003101 ± 0.03806
pull
Entries 94
Mean −389.3
Std Dev 0
pull1D
Entries 94
Mean −0.005794
Std Dev 0.9002

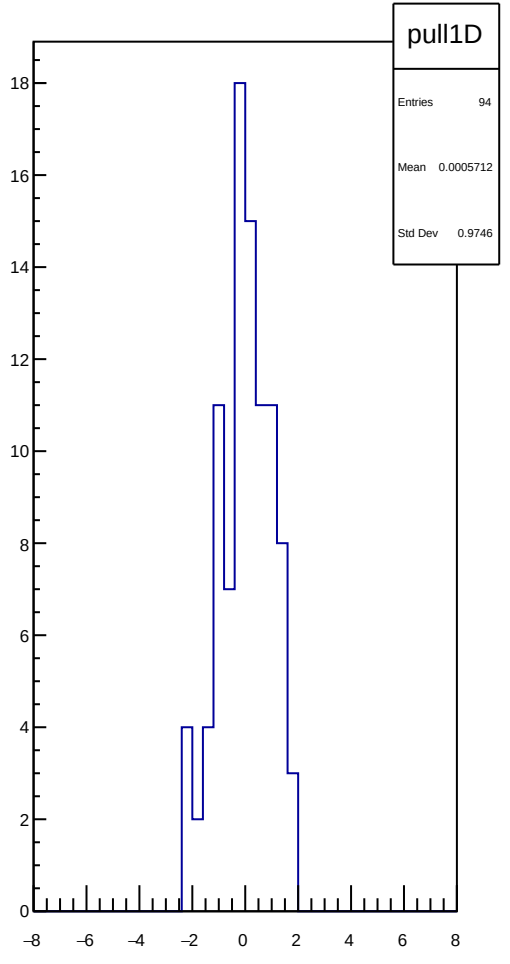

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.118e+04 / 93
p0 35.84 ± 0.02691
50
45
40
35
30

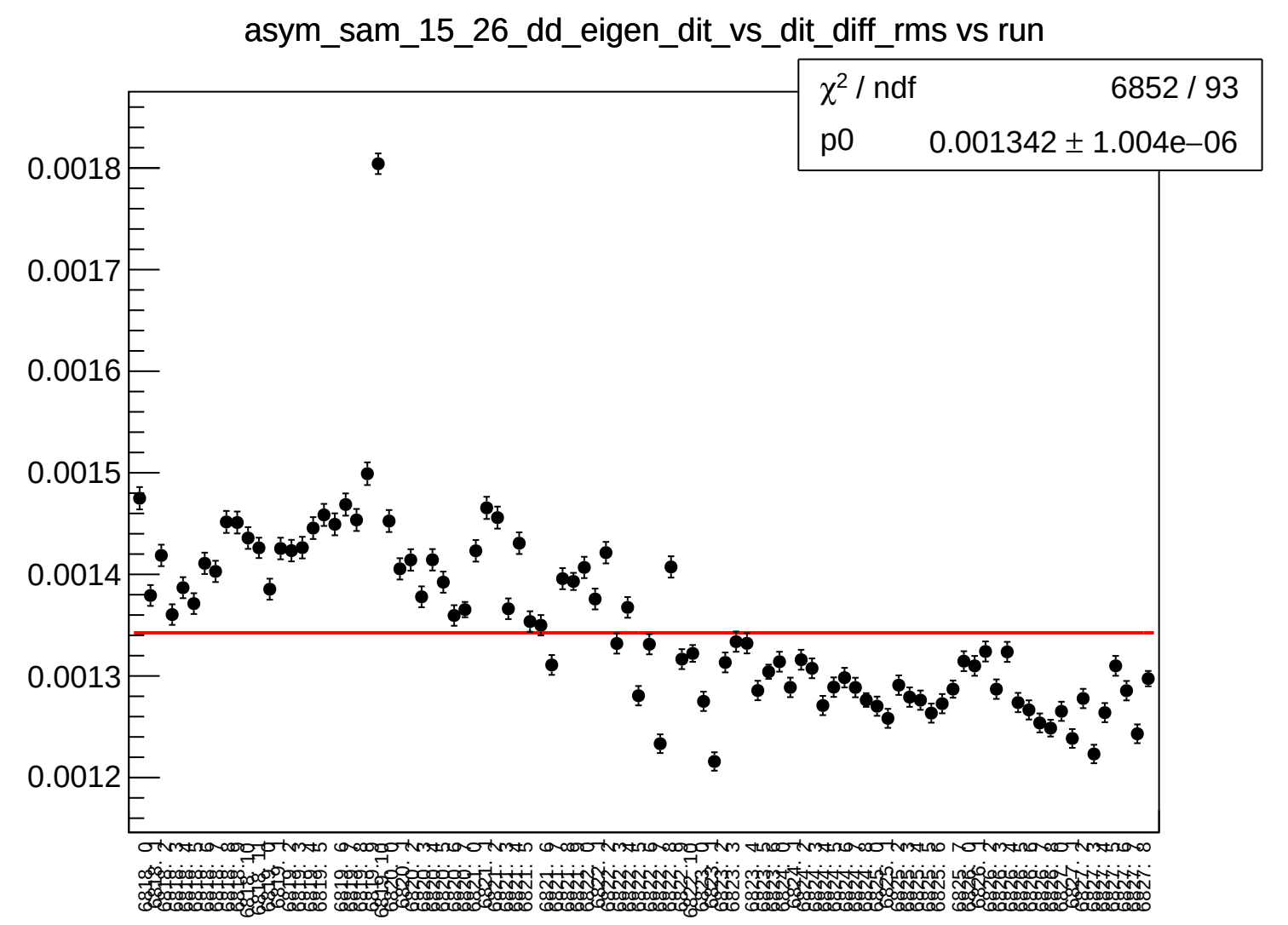

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.18 / 93
p0 −0.003101 ± 0.03806
pull
Entries 94
Mean −389.3
Std Dev 0

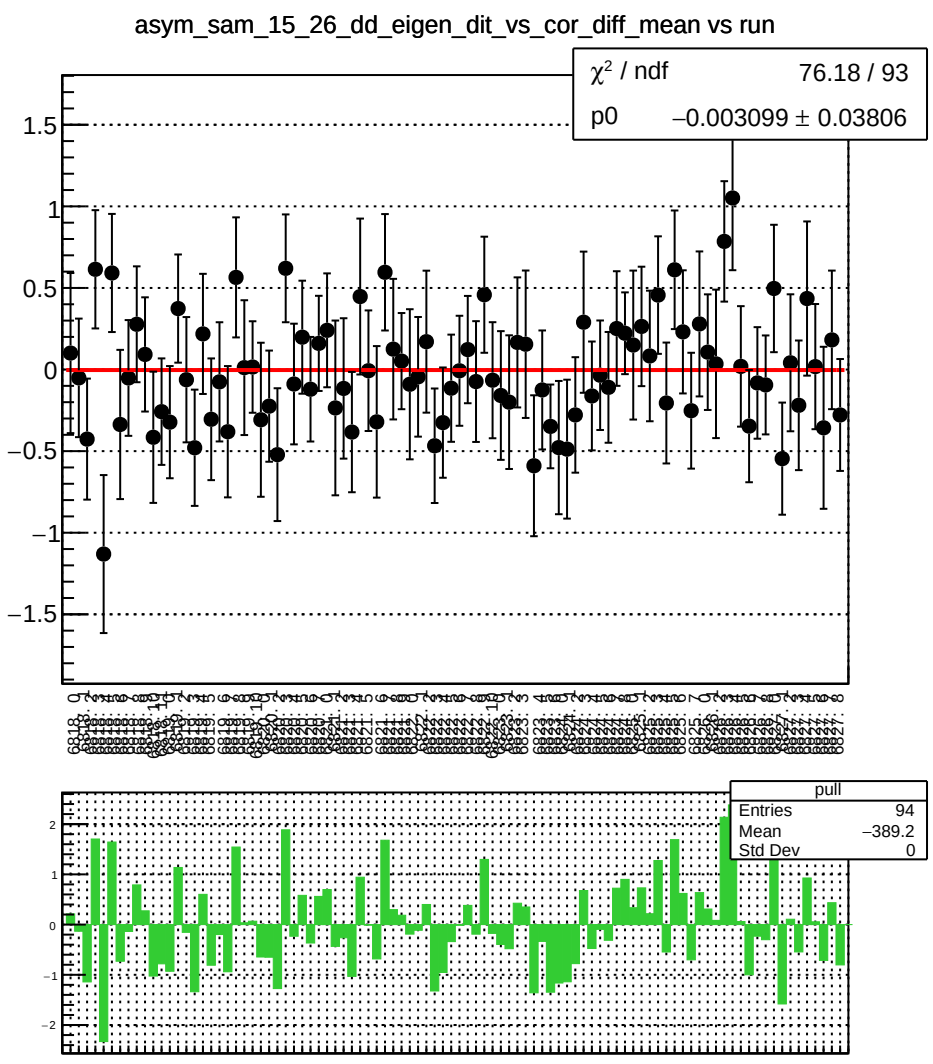

pull1D
Entries 94
Mean −0.005794
Std Dev 0.9002

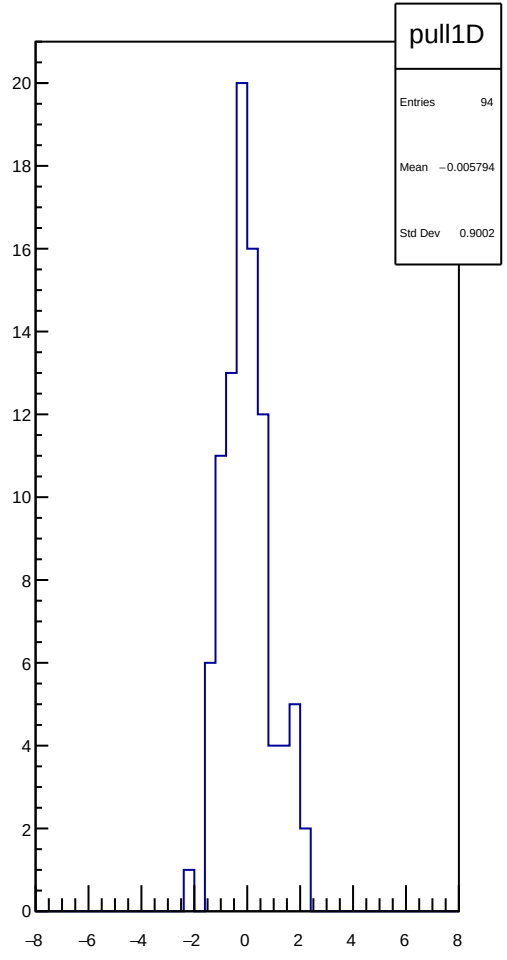

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.118e+04 / 93
p0 35.84 ± 0.02691
50
45
40
35
30

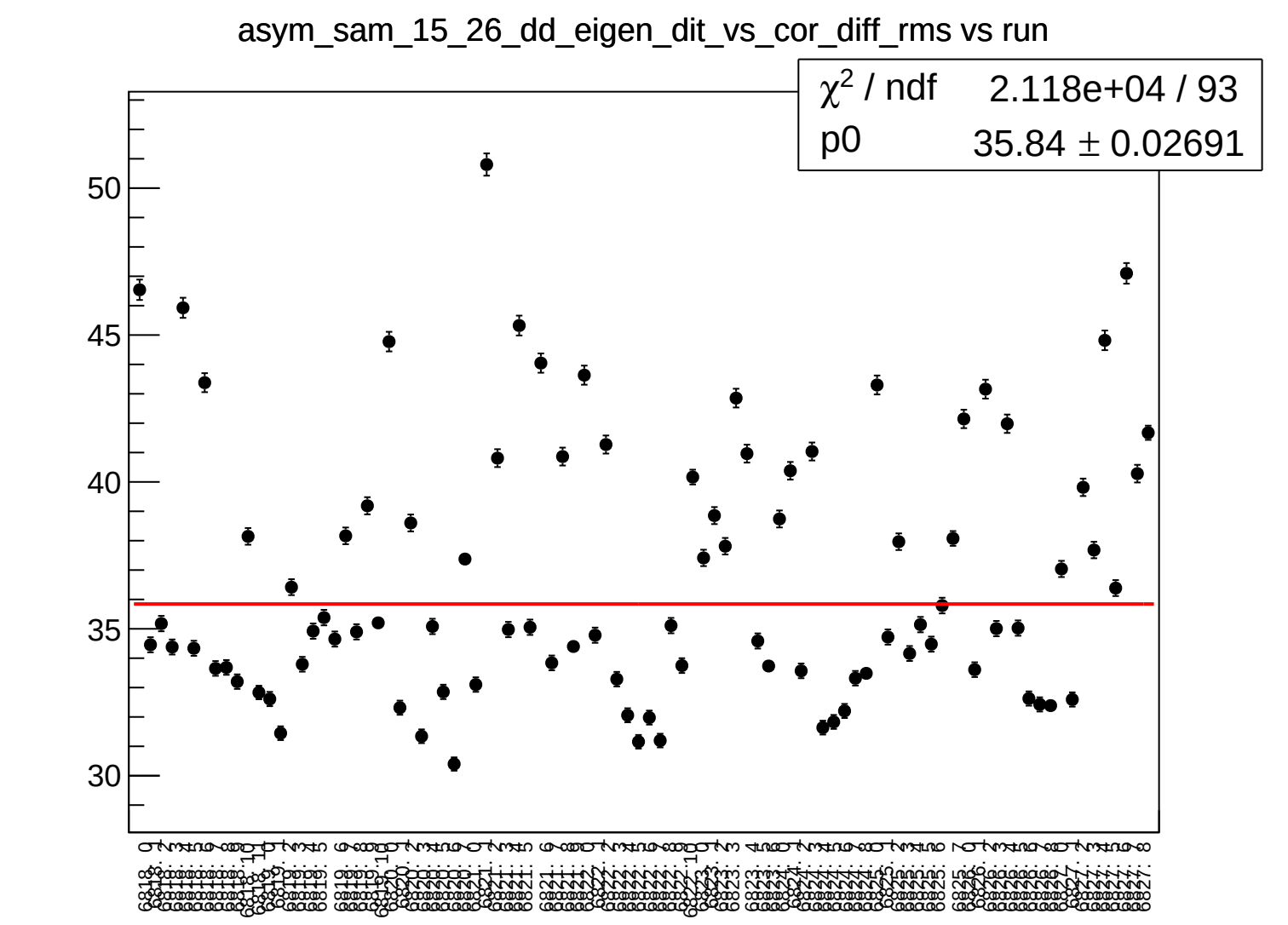

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.28 / 93
p0 1.494e−06 ± 1.42e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 94
Mean 529.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

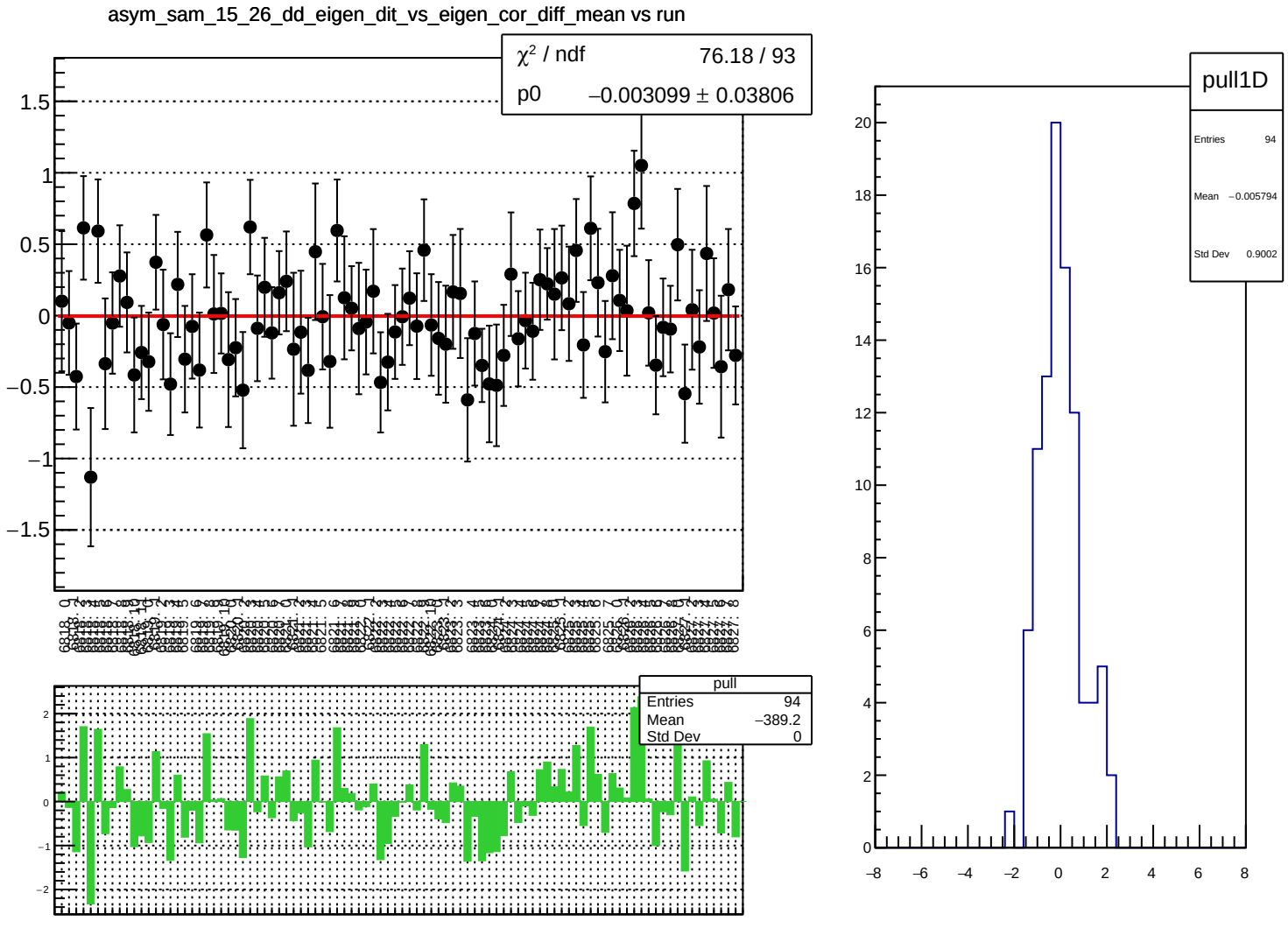

pull1D
Entries 94
Mean 0.0005712
Std Dev 0.9746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

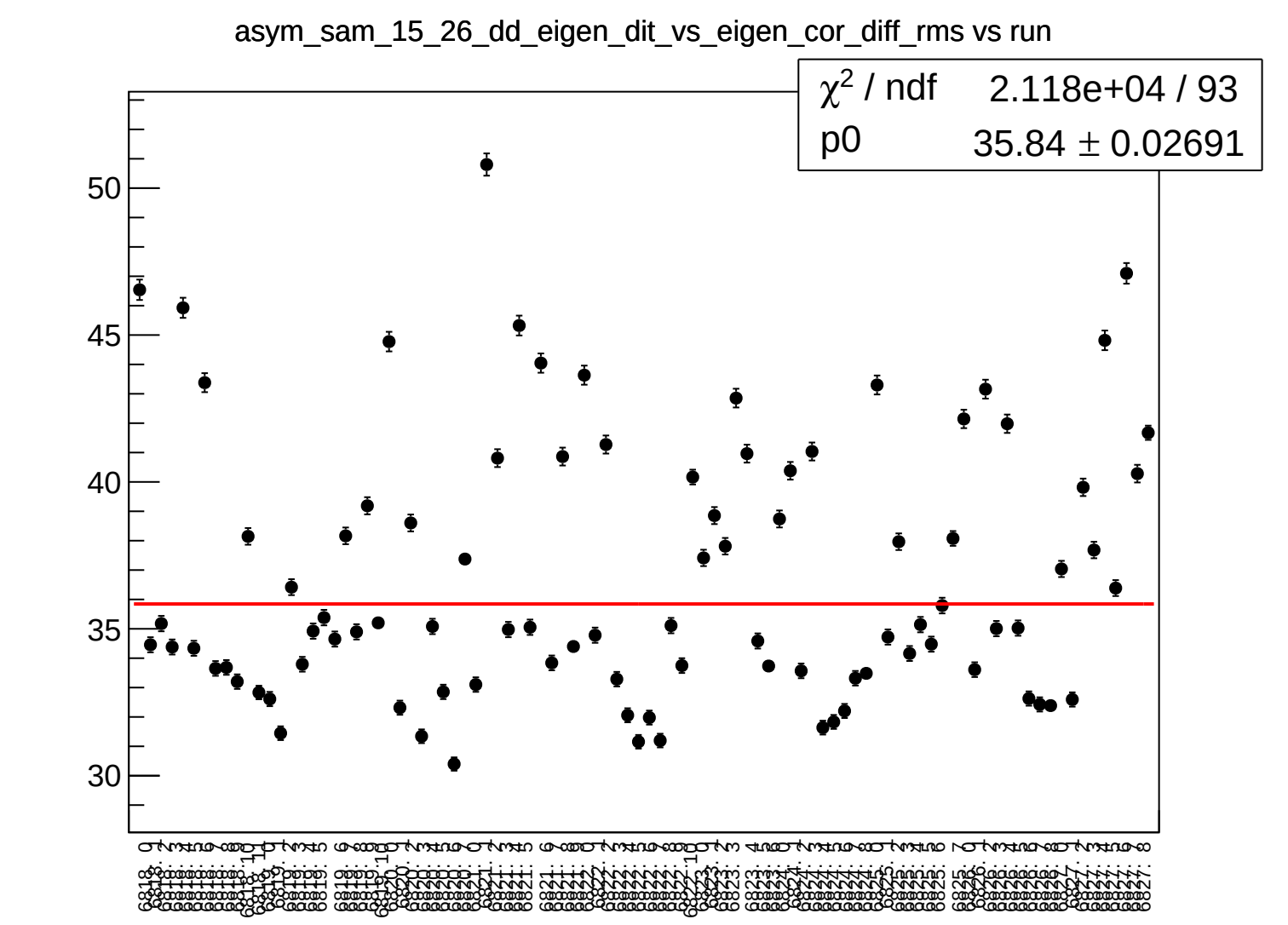

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6852 / 93
p0 0.001342 ± 1.004e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

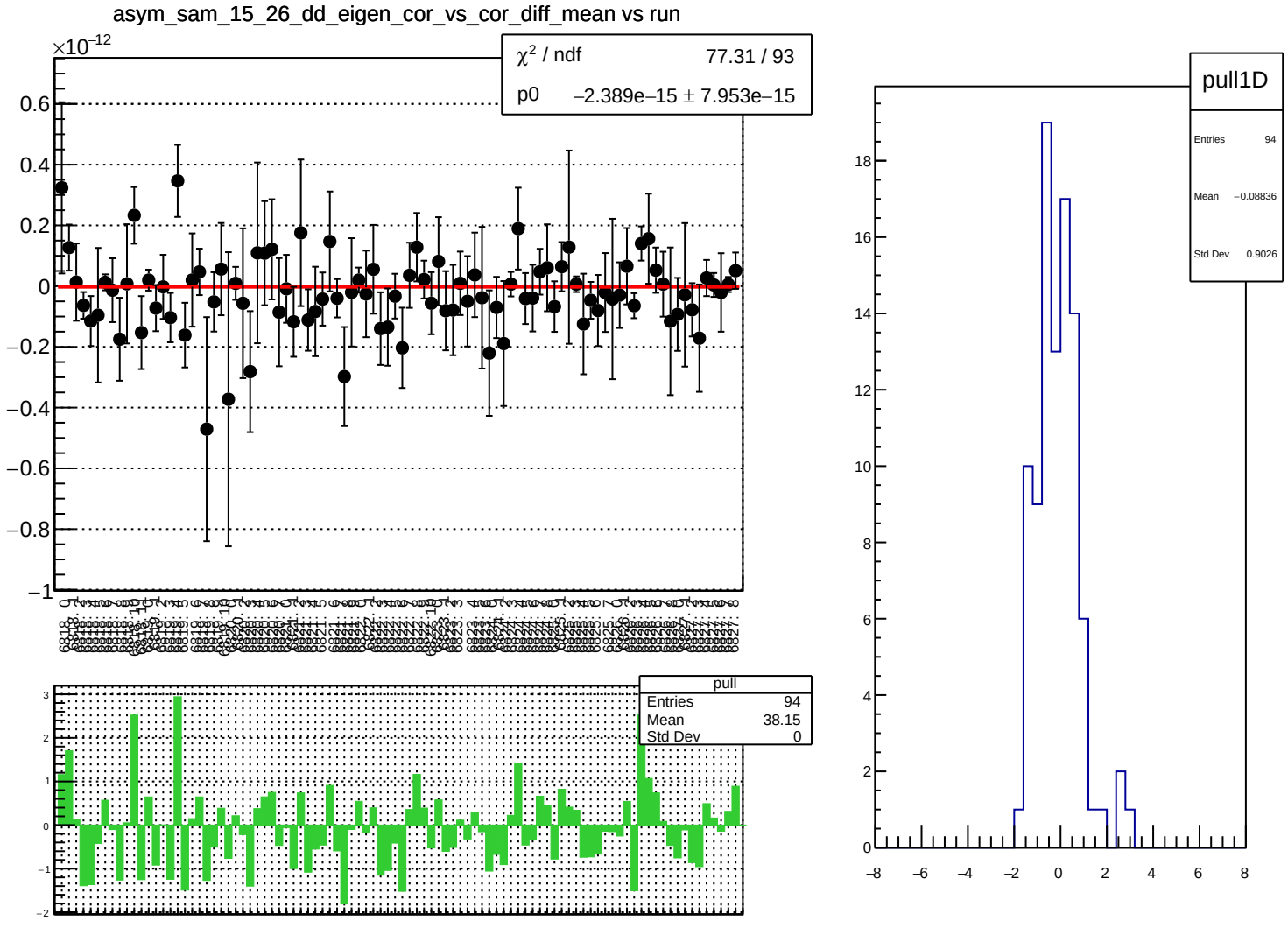

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.18 / 93
p0 −0.003099 ± 0.03806
pull
Entries 94
Mean −389.2
Std Dev 0

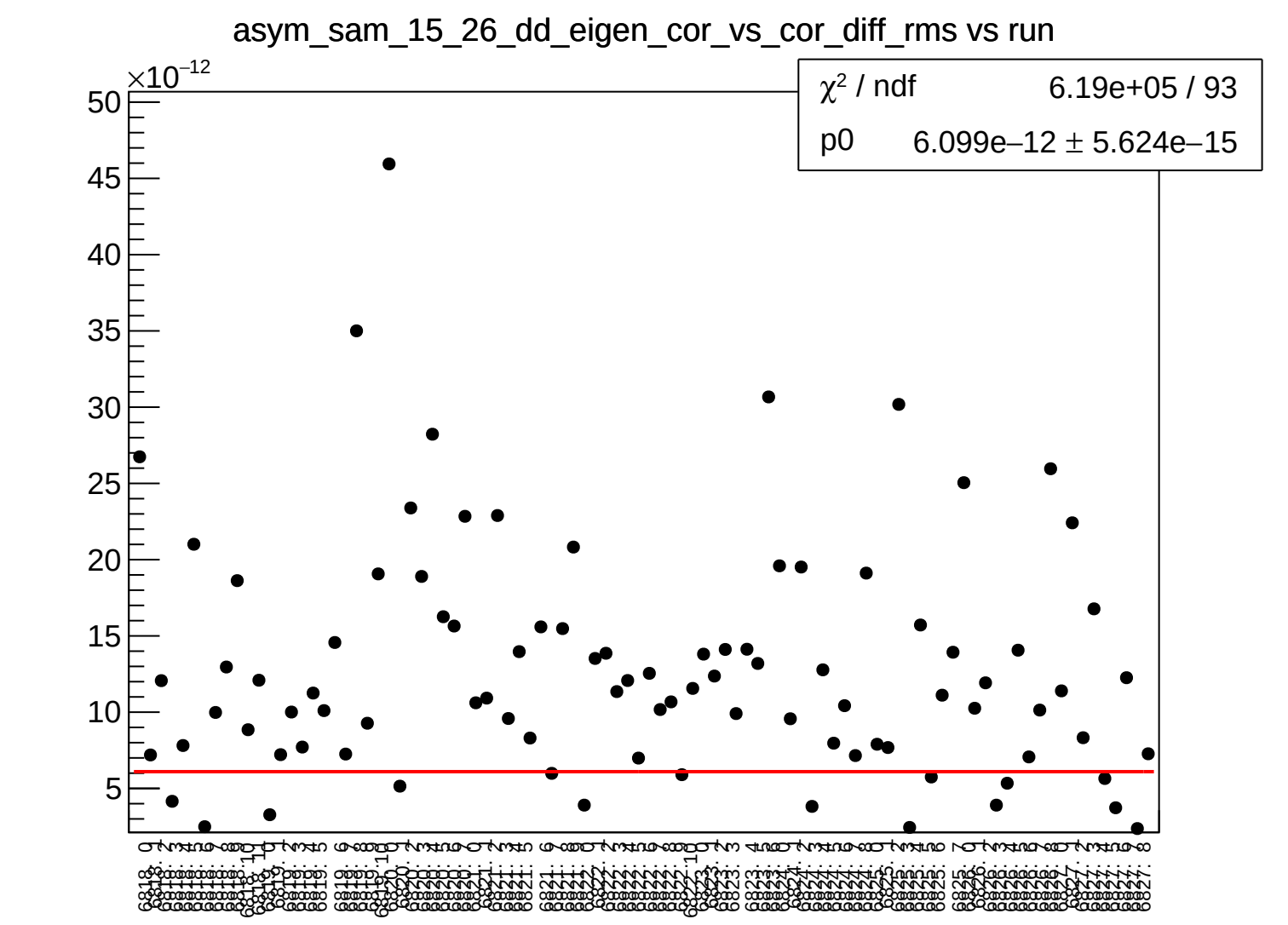

pull1D
Entries 94
Mean −0.005794
Std Dev 0.9002

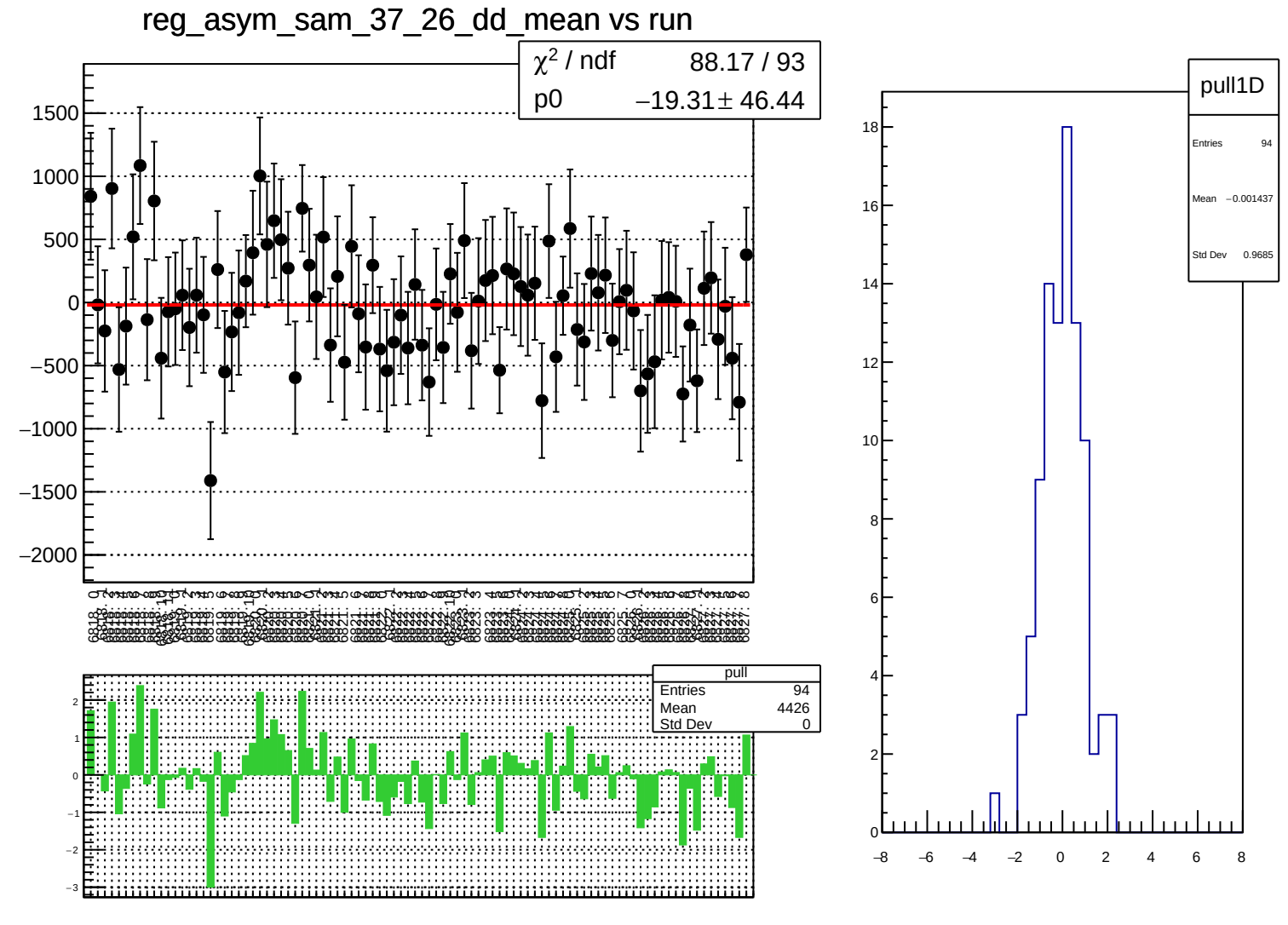

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.118e+04 / 93
p0 35.84 ± 0.02691
50
45
40
35
30

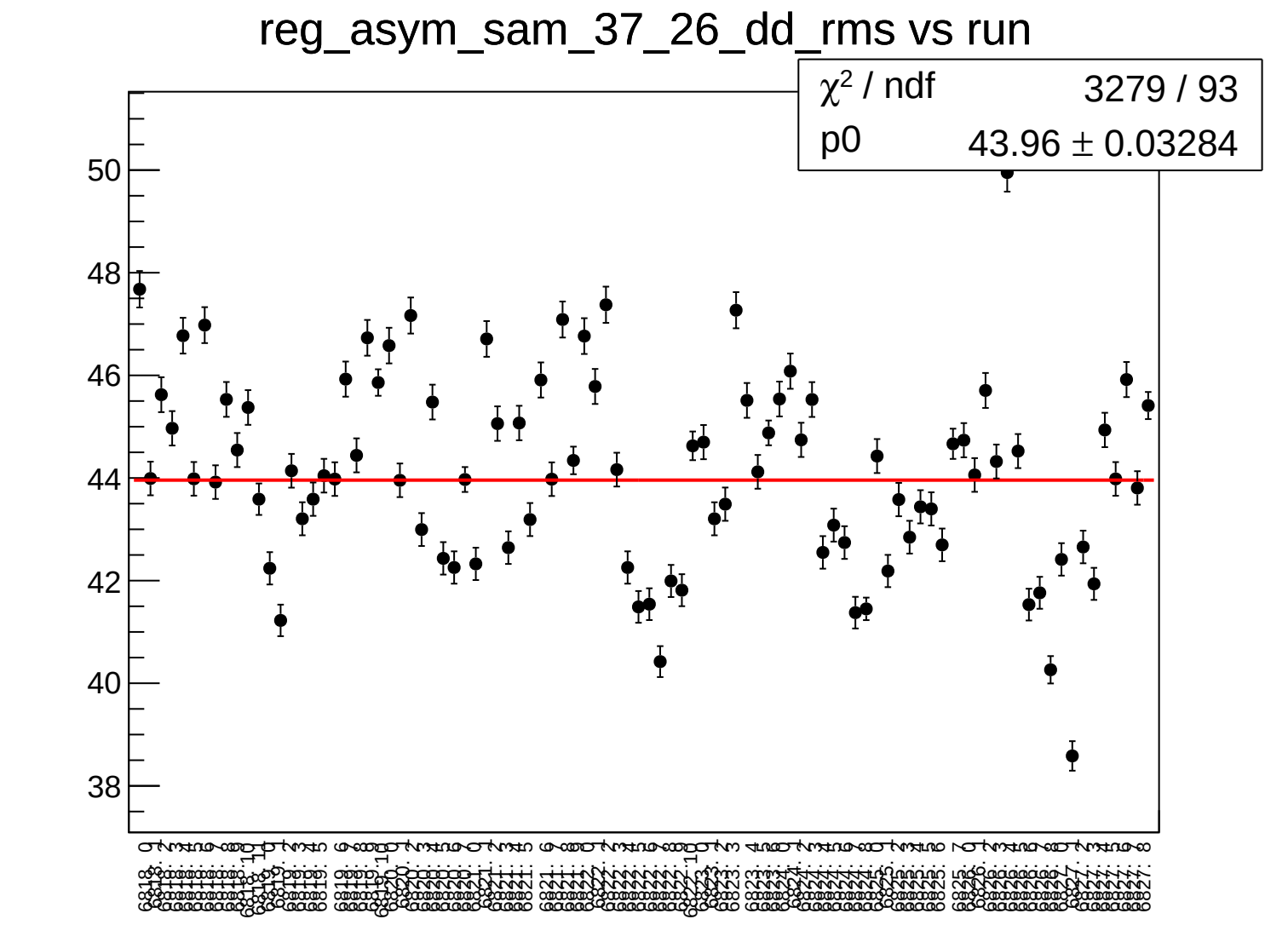

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.18 / 93
p0 −0.003099 ± 0.03806
pull
Entries 94
Mean −389.2
Std Dev 0
pull1D
Entries 94
Mean −0.005794
Std Dev 0.9002

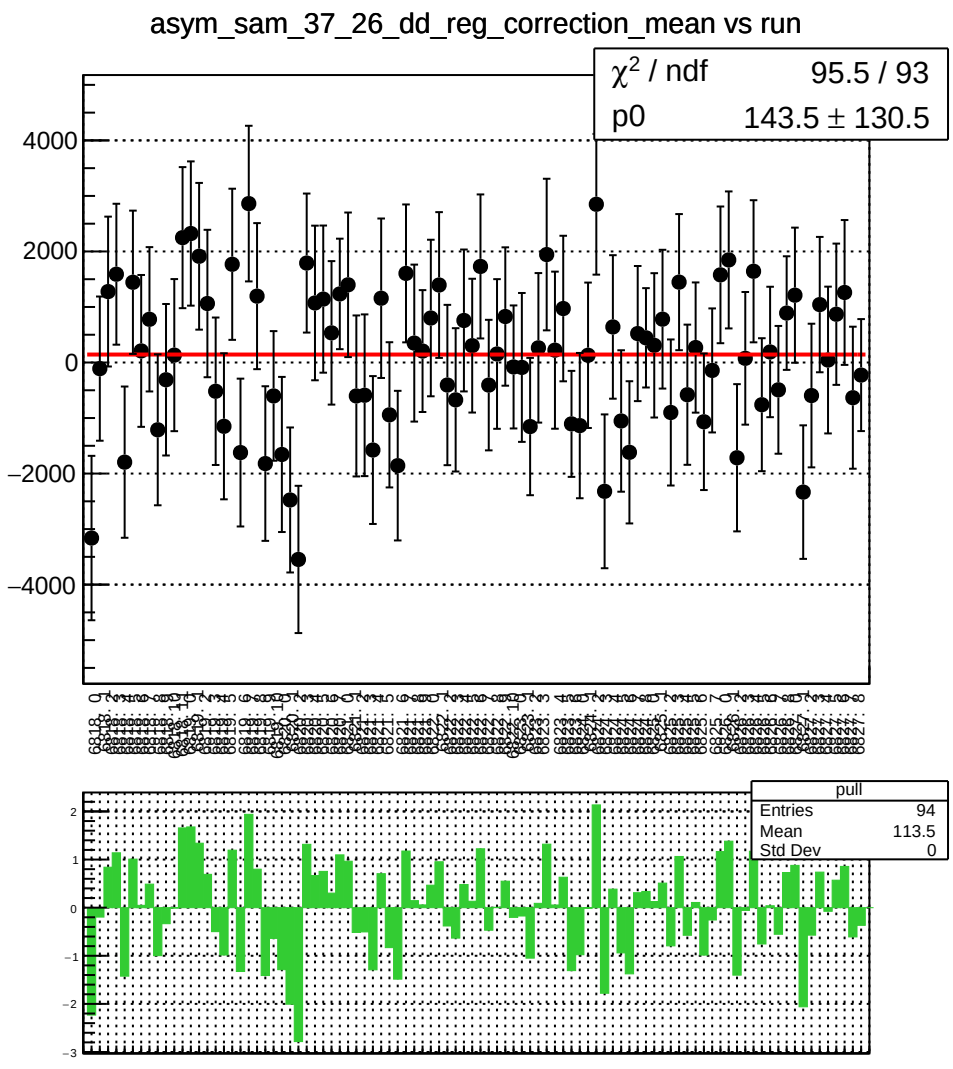

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.118e+04 / 93
p0 35.84 ± 0.02691
50
45
40
35
30

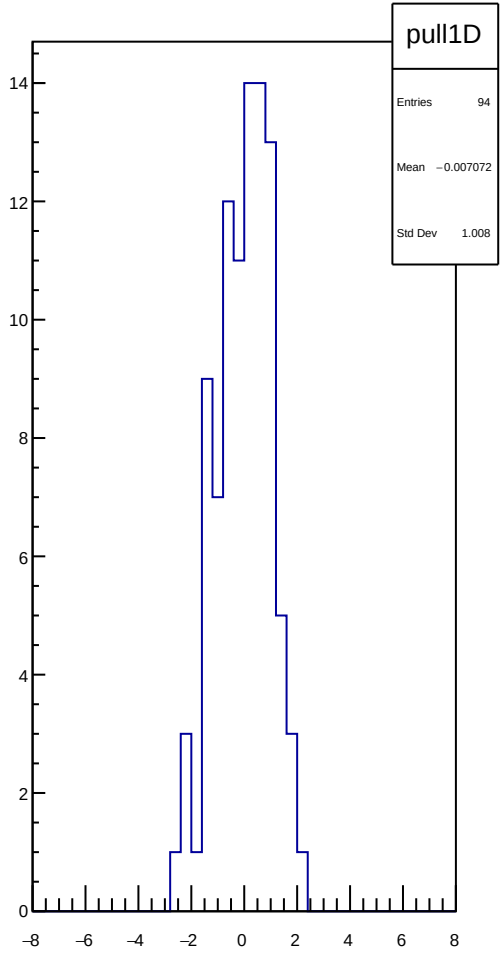

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.31 / 93
p0 −2.389e−15 ± 7.953e−15
pull
Entries 94
Mean 38.15
Std Dev 0
pull1D
Entries 94
Mean −0.08836
Std Dev 0.9026

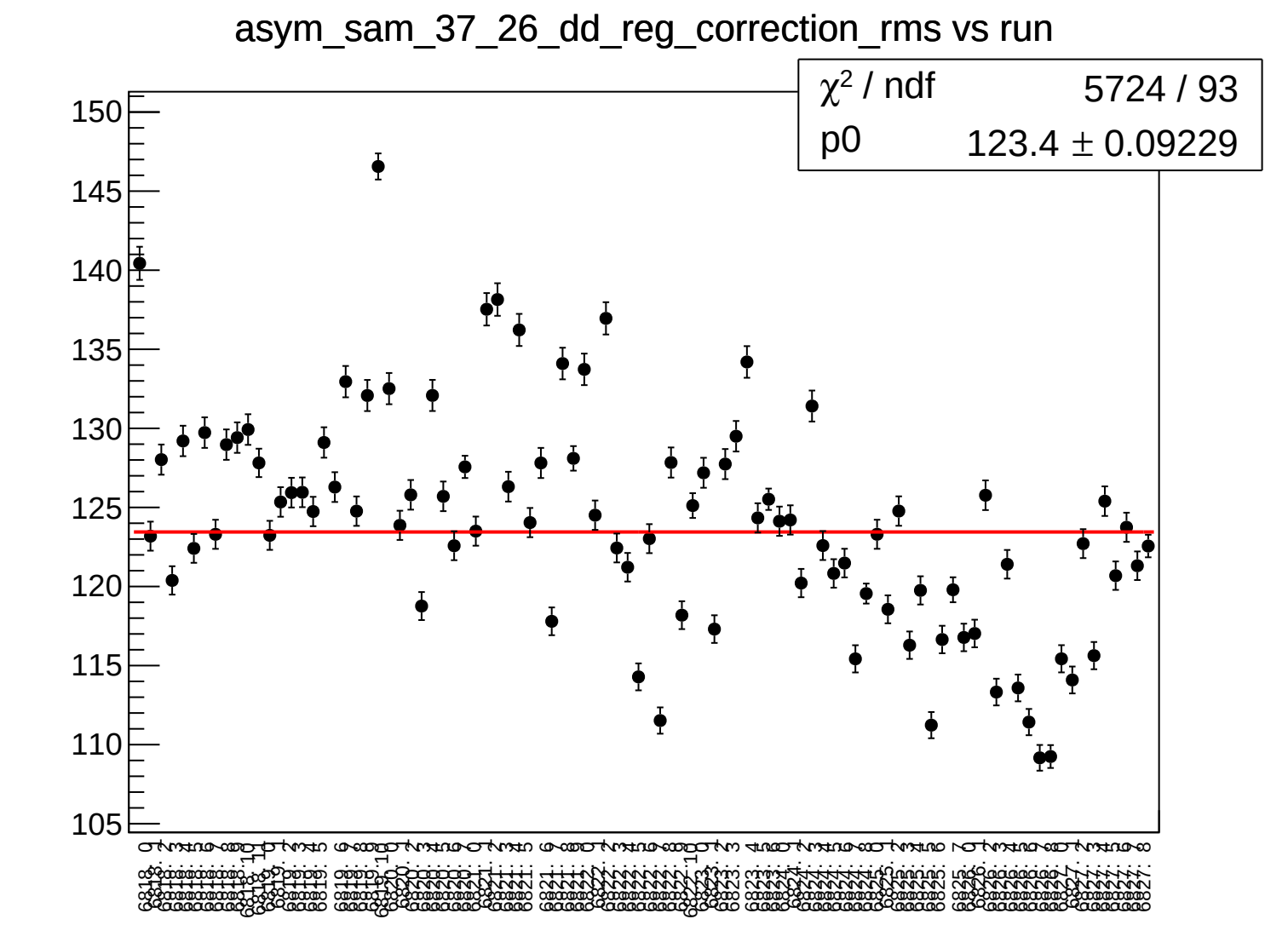

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.19e+05 / 93
p0 6.099e−12 ± 5.624e−15
50
45
40
35
30
25
20
15
10
5

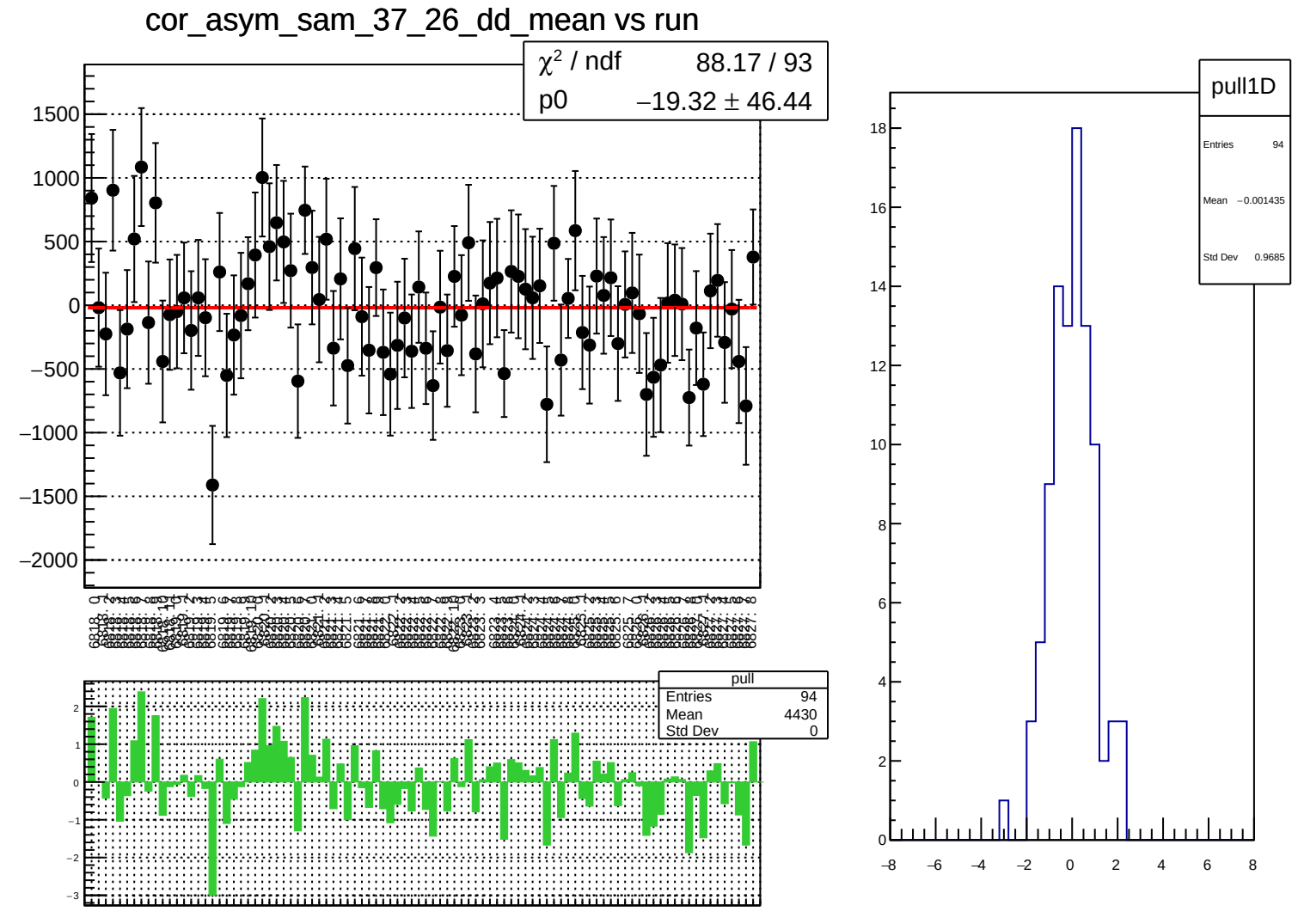

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.17 / 93
p0 −19.31 ± 46.44
pull
Entries 94
Mean 4426
Std Dev 0
pull1D
Entries 94
Mean −0.001437
Std Dev 0.9685

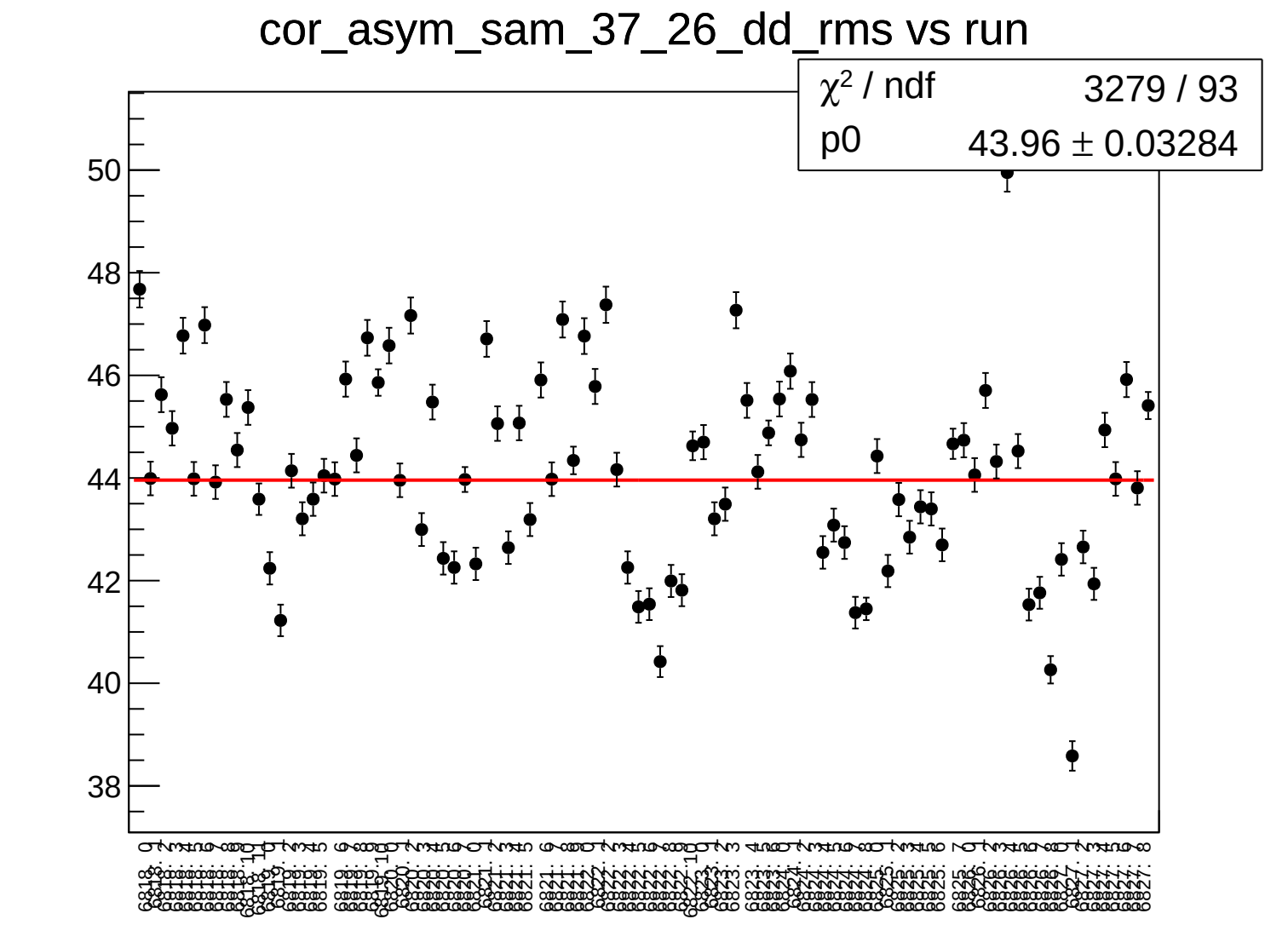

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 3279 / 93
p0 43.96 ± 0.03284
50
48
46
44
42
40
38

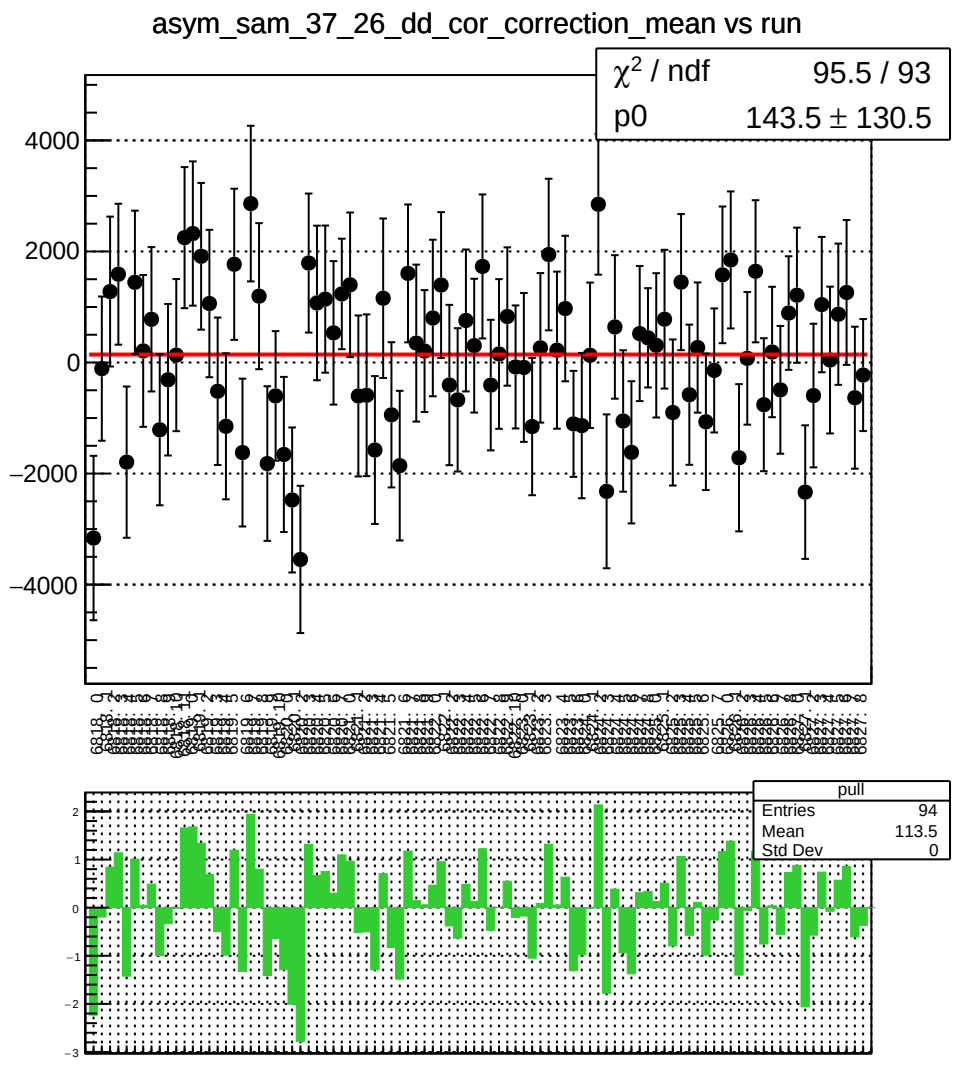

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 95.5 / 93
p0 143.5 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 113.5
Std Dev 0
2
1
0
−1
−2
−3

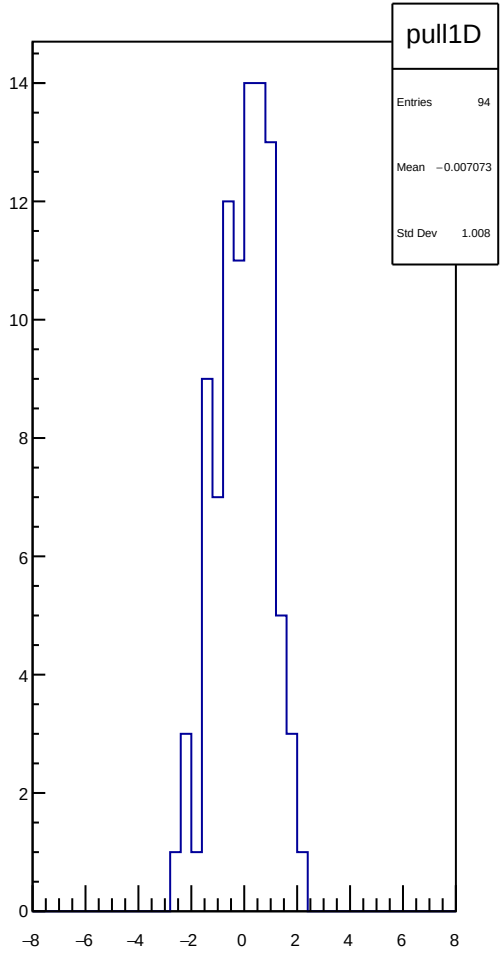

pull1D
Entries 94
Mean −0.007072
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

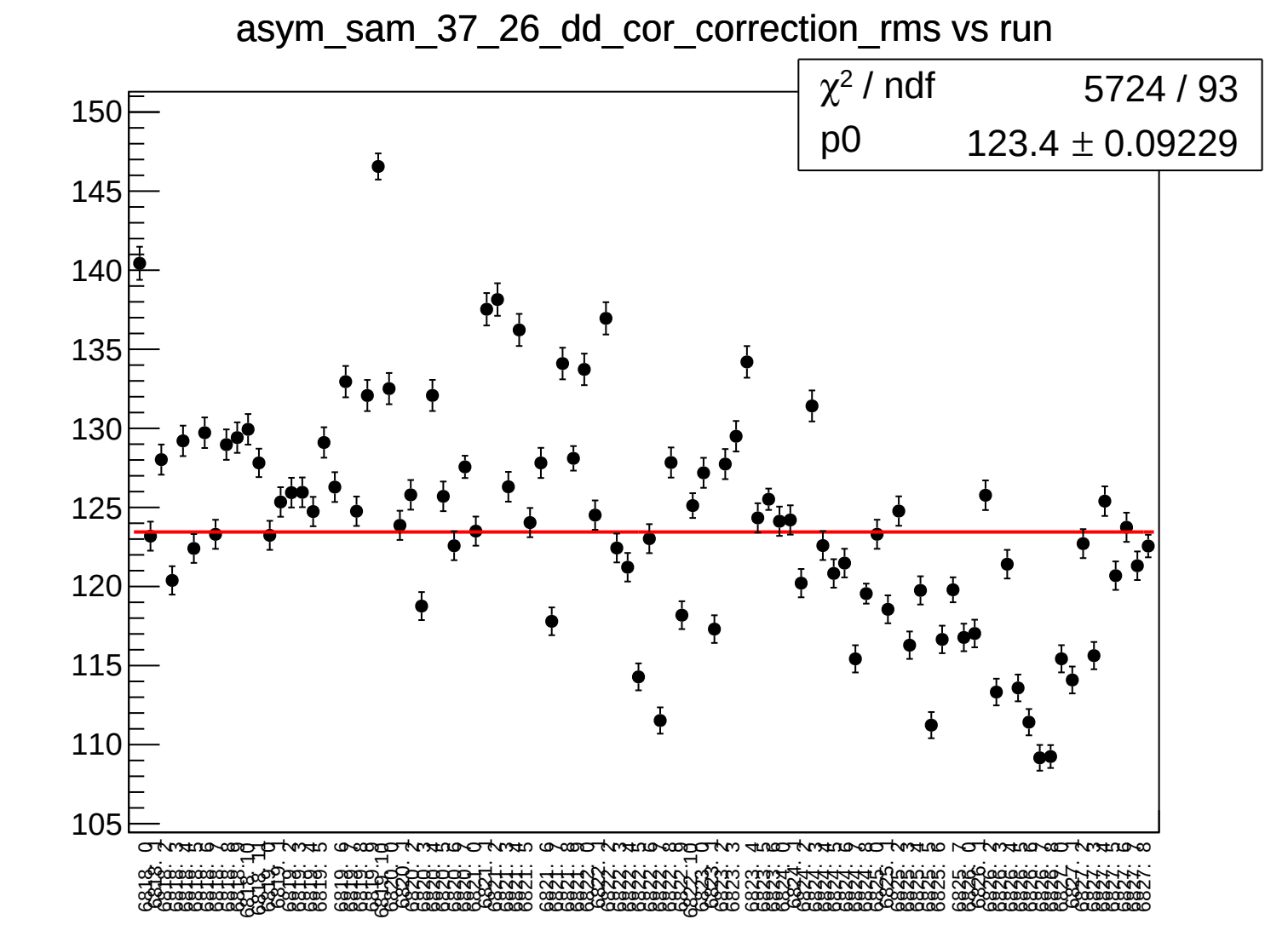

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 5724 / 93
p0 123.4 ± 0.09229
150
145
140
135
130
125
120
115
110
105

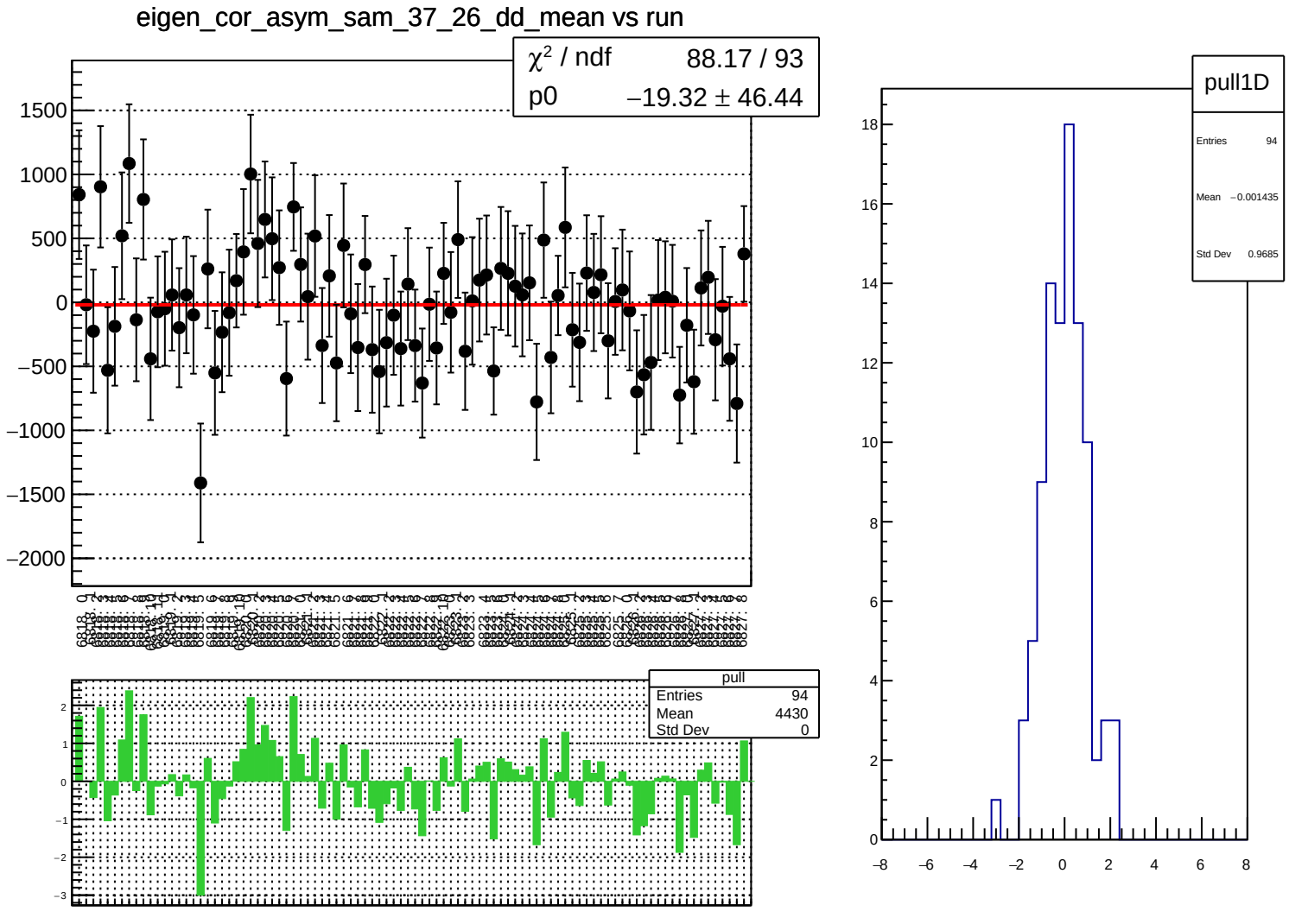

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.17 / 93
p0 −19.32 ± 46.44
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 4430
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.001435
Std Dev 0.9685
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

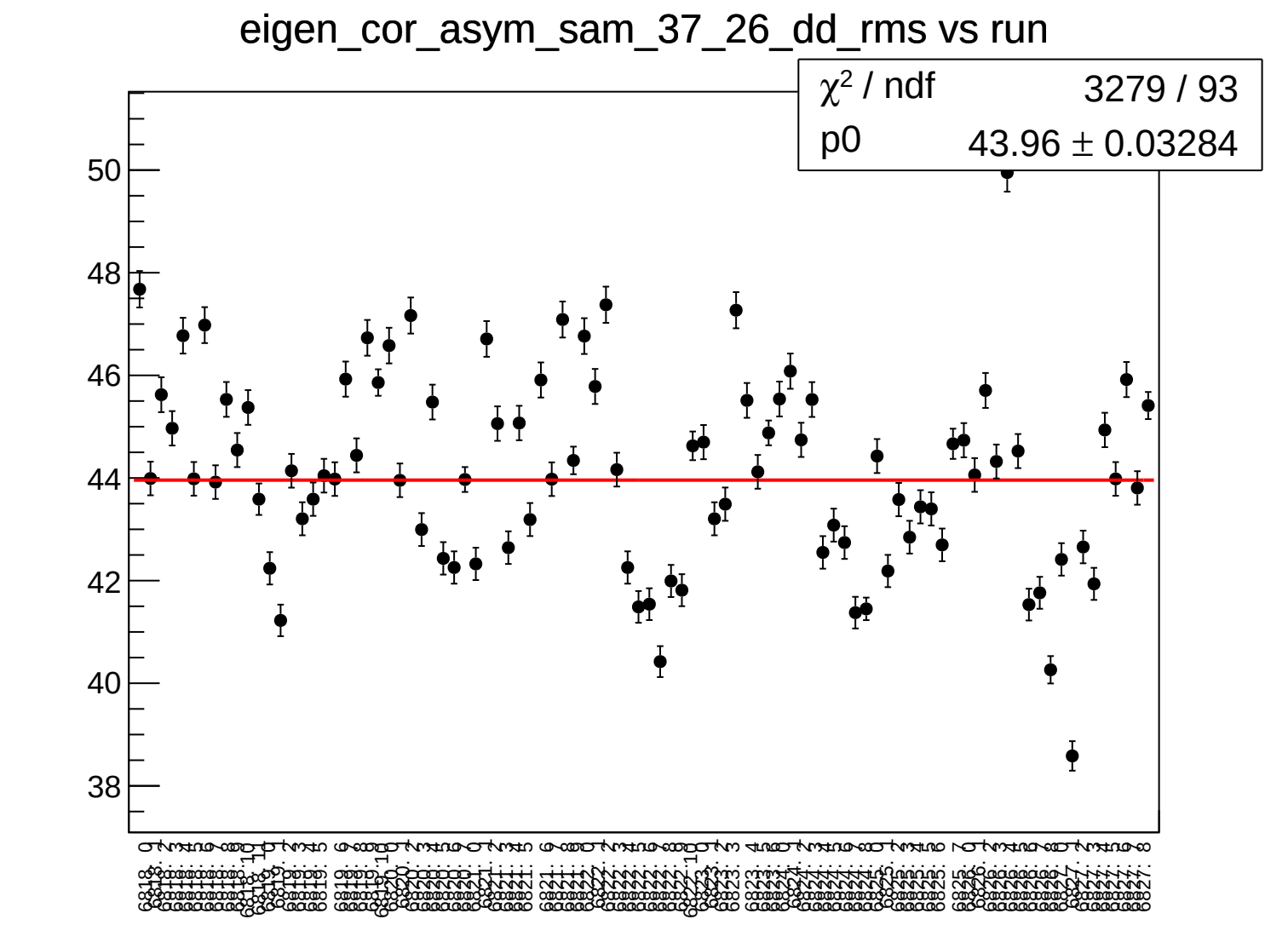

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3279 / 93
p0 43.96 ± 0.03284
50
48
46
44
42
40
38

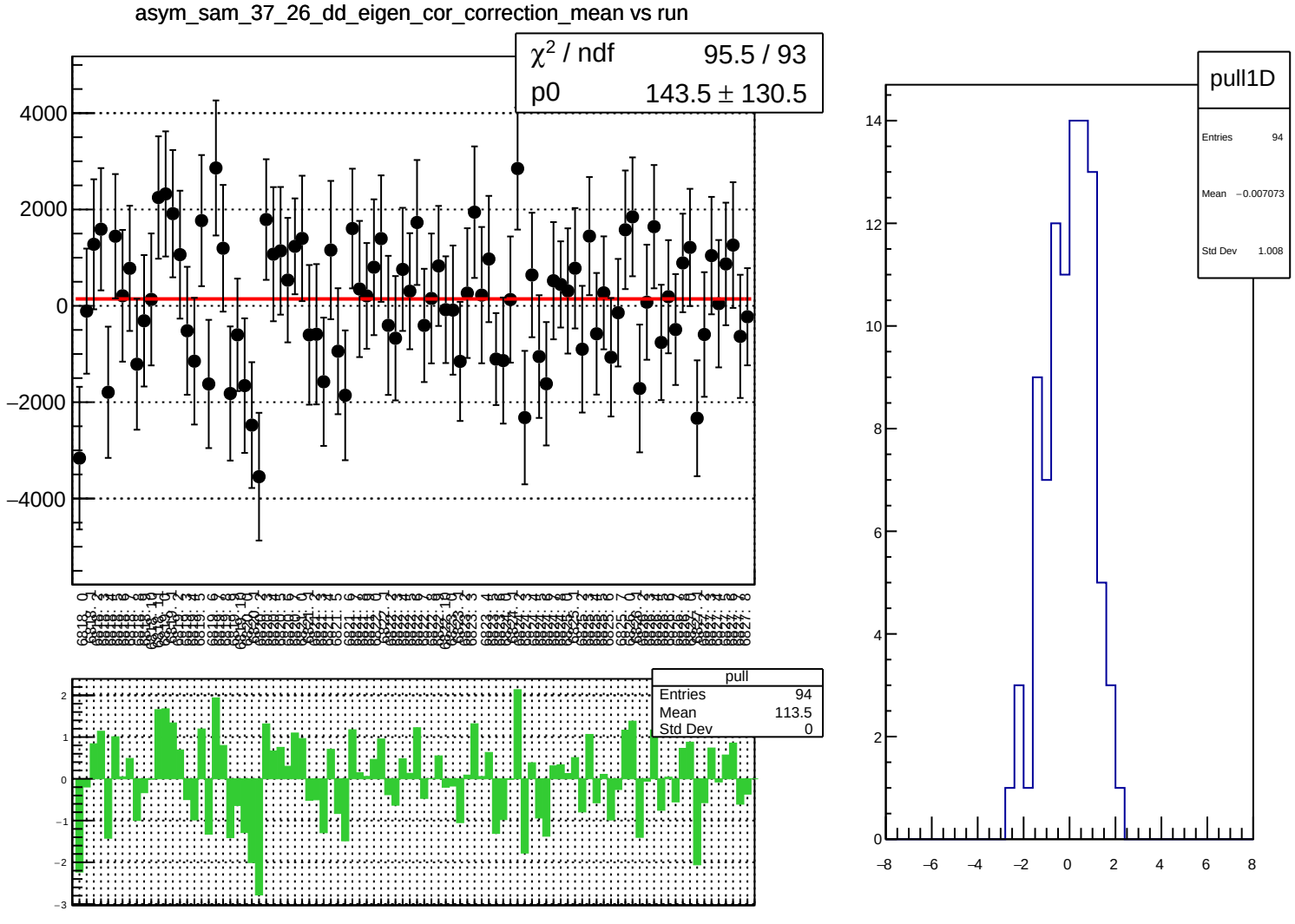

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 95.5 / 93
p0 143.5 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 113.5
Std Dev 0
2
1
0
−1
−2
−3

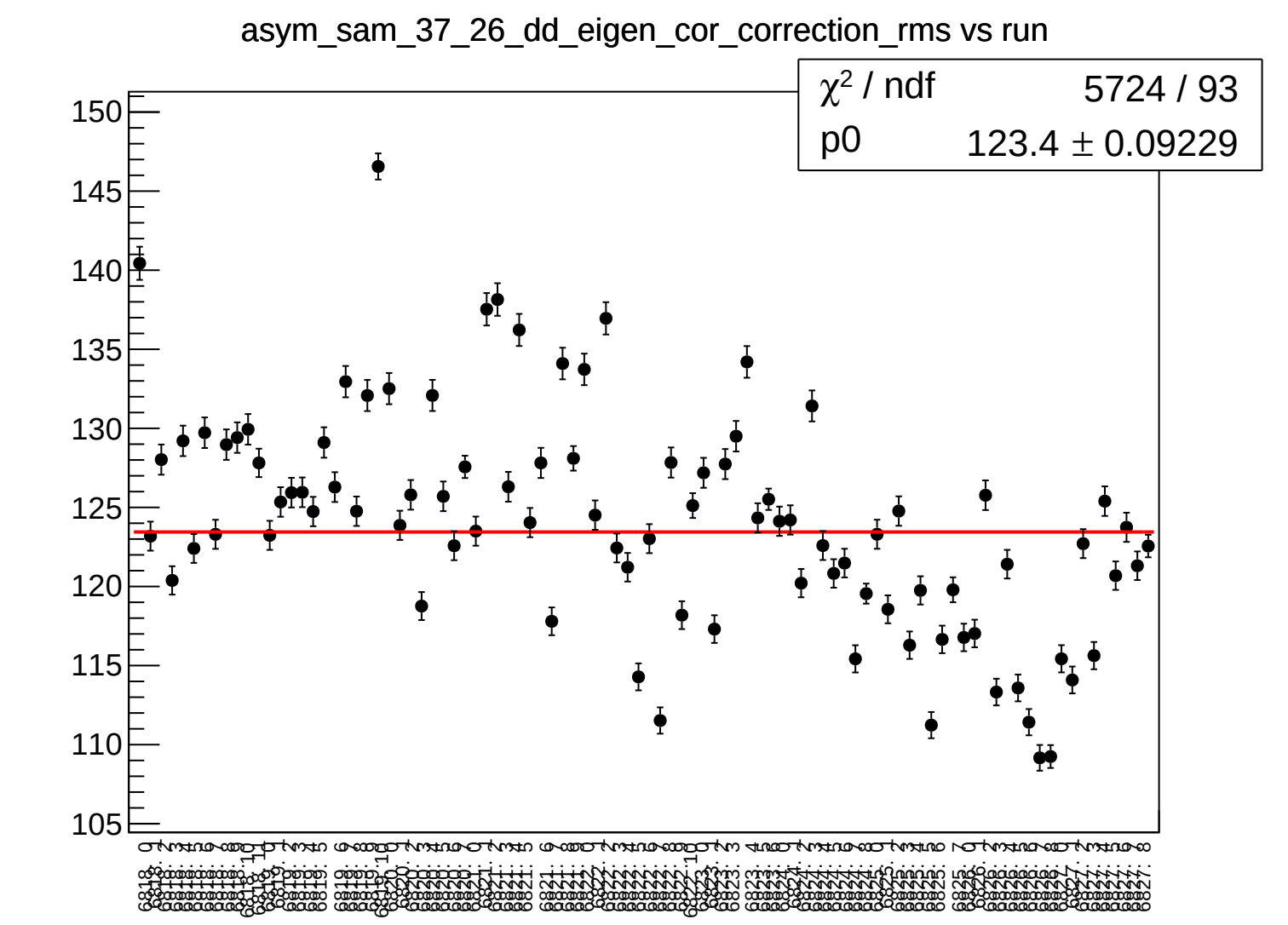

pull1D
Entries 94
Mean −0.007073
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

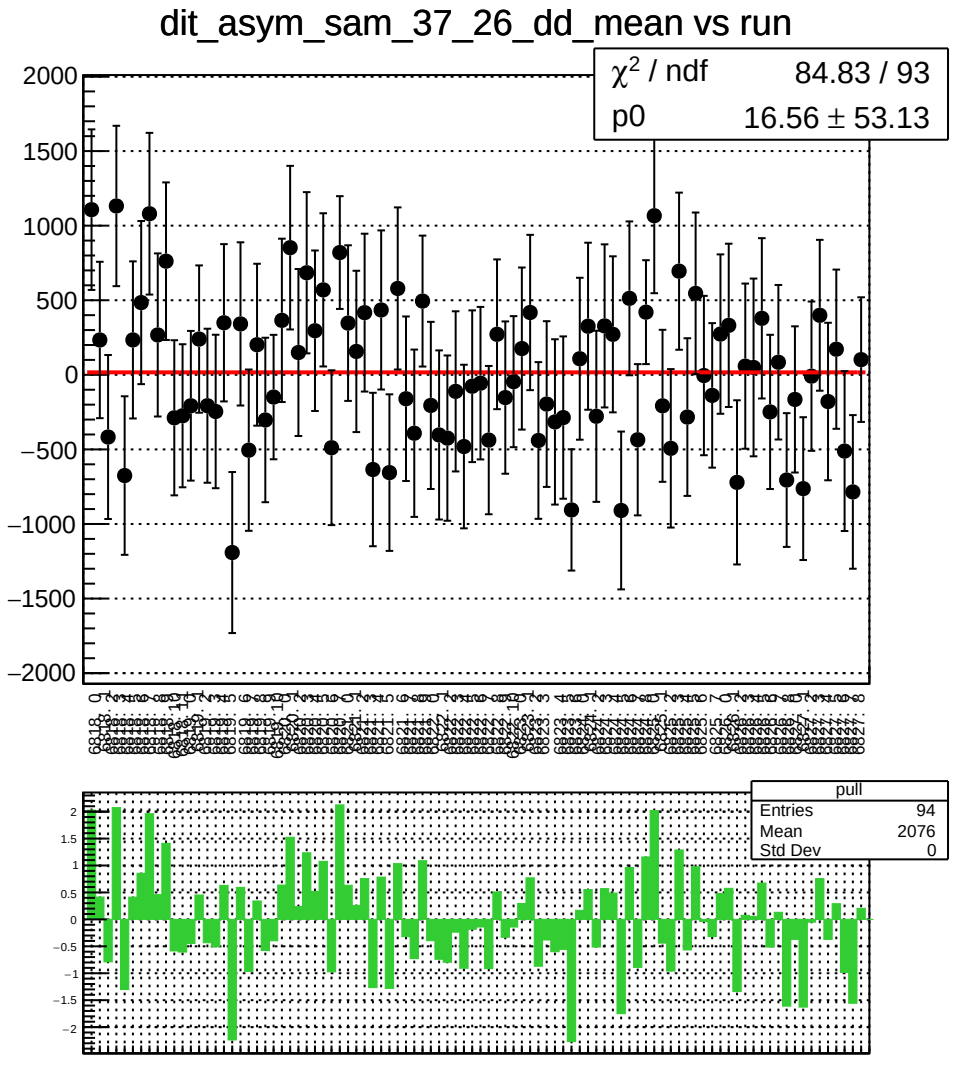

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 5724 / 93
p0 123.4 ± 0.09229
150
145
140
135
130
125
120
115
110
105

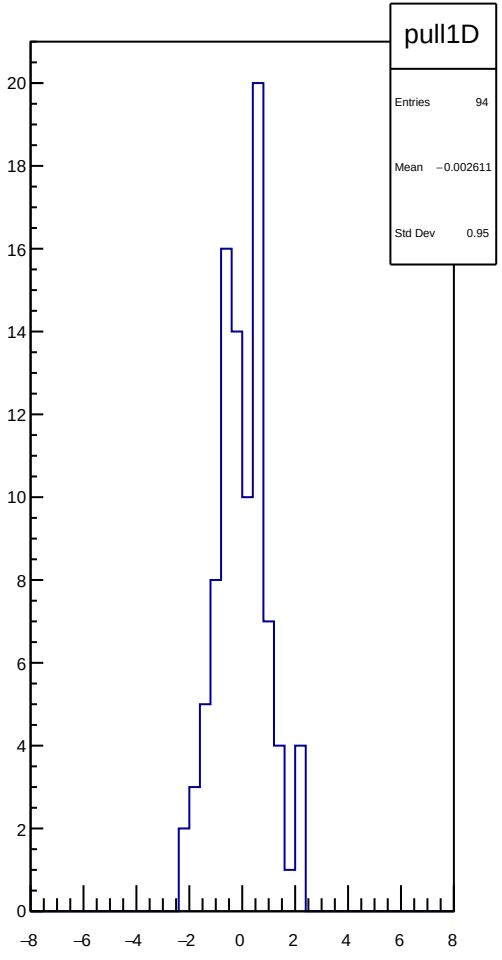

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 88.17 / 93
p0 −19.32 ± 46.44
pull
Entries 94
Mean 4430
Std Dev 0
pull1D
Entries 94
Mean −0.001435
Std Dev 0.9685

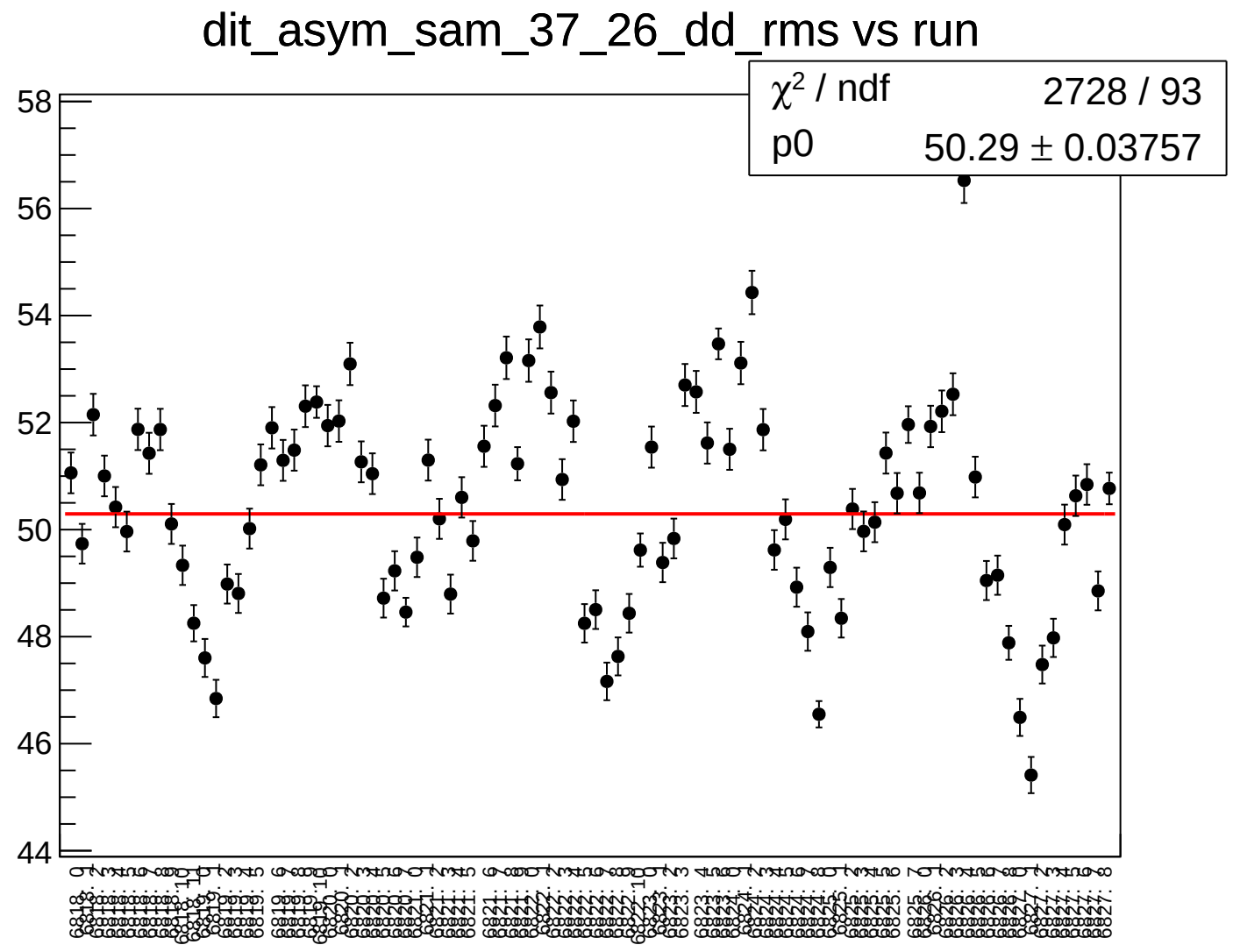

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 3279 / 93
p0 43.96 ± 0.03284
50
48
46
44
42
40
38

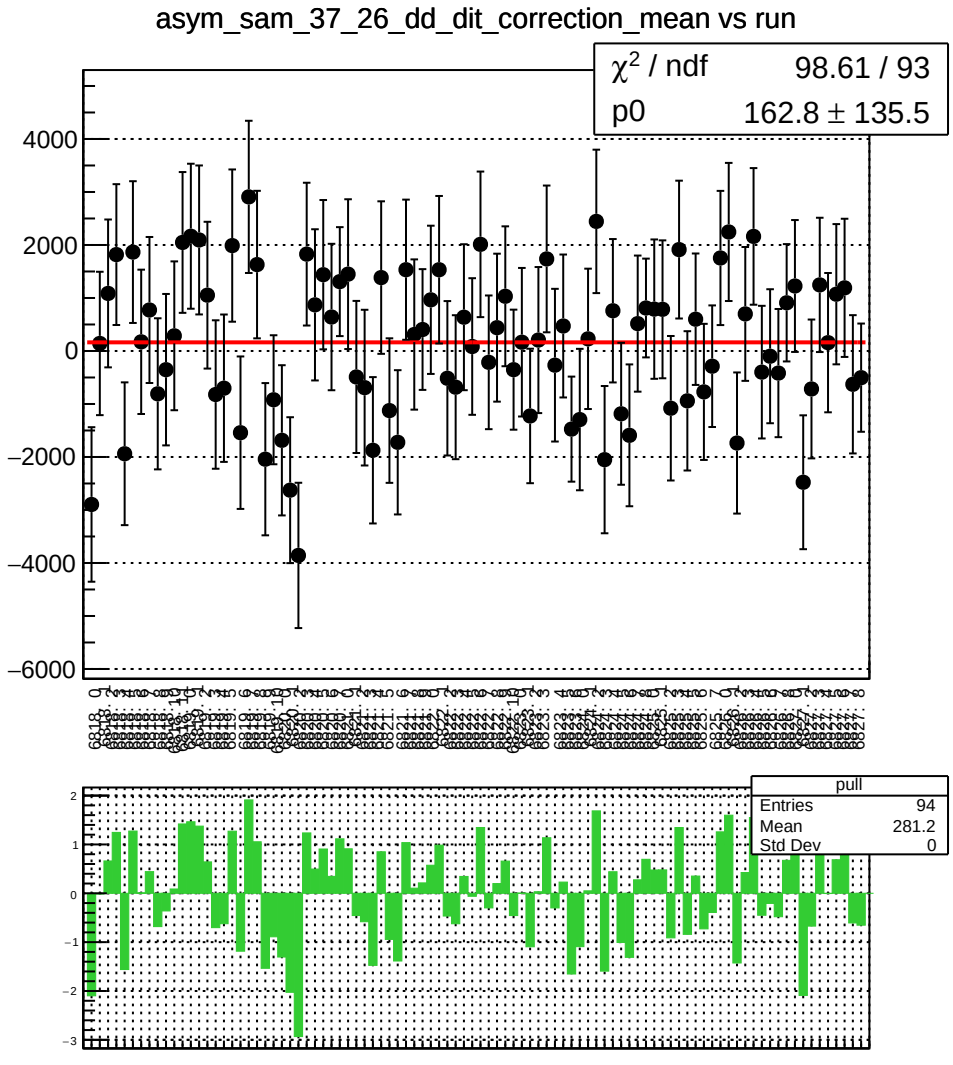

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.5 / 93
p0 143.5 ± 130.5
4000
2000
0
−2000
−4000
pull
Entries 94
Mean 113.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.007073
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

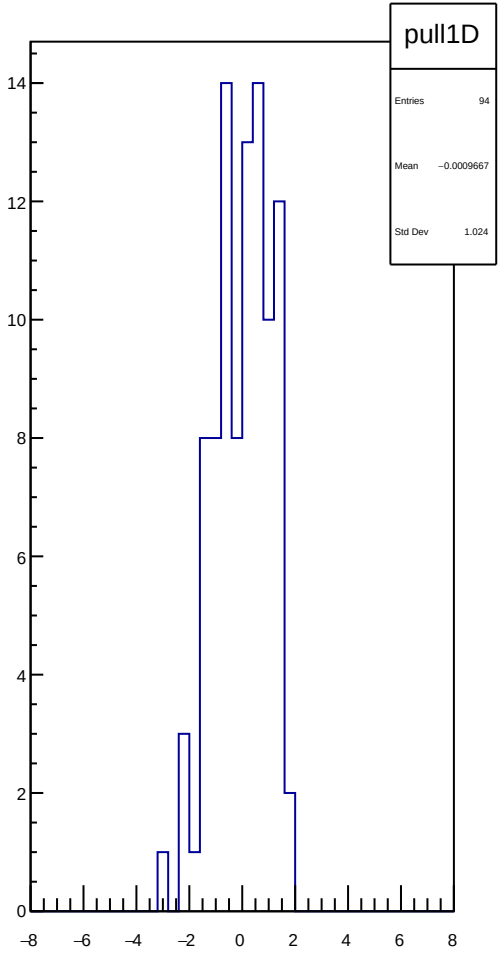

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5724 / 93
p0 123.4 ± 0.09229
150
145
140
135
130
125
120
115
110
105

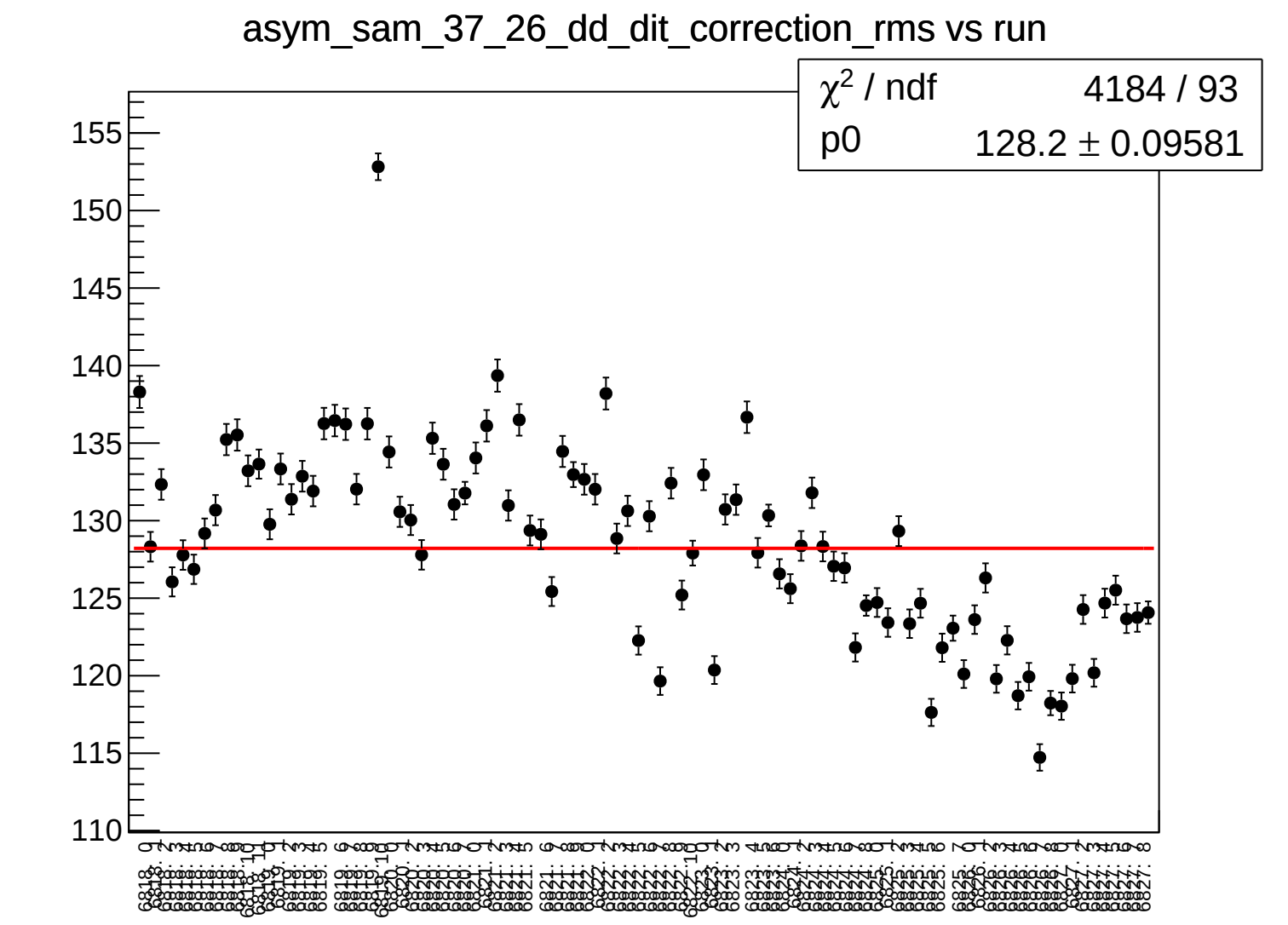

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 84.83 / 93
p0 16.56 ± 53.13
pull
Entries 94
Mean 2076
Std Dev 0

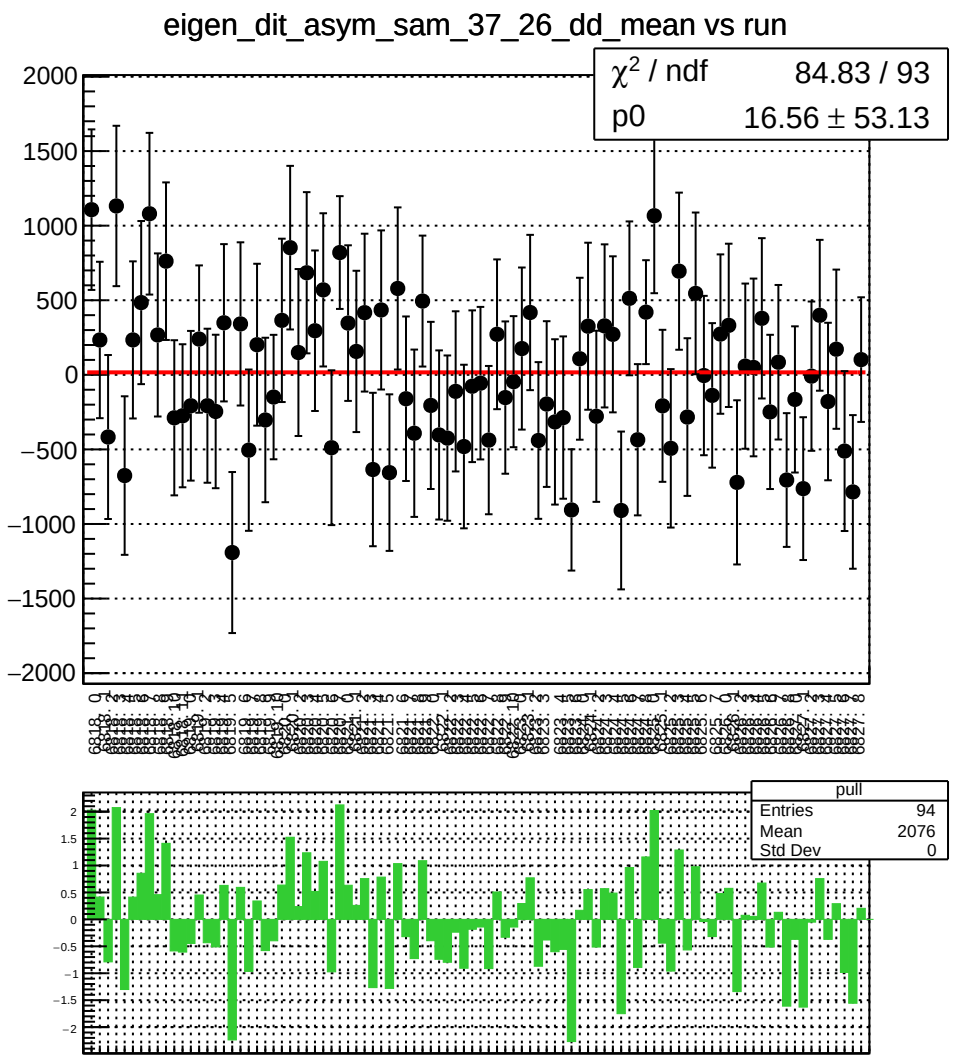

pull1D
Entries 94
Mean −0.002611
Std Dev 0.95

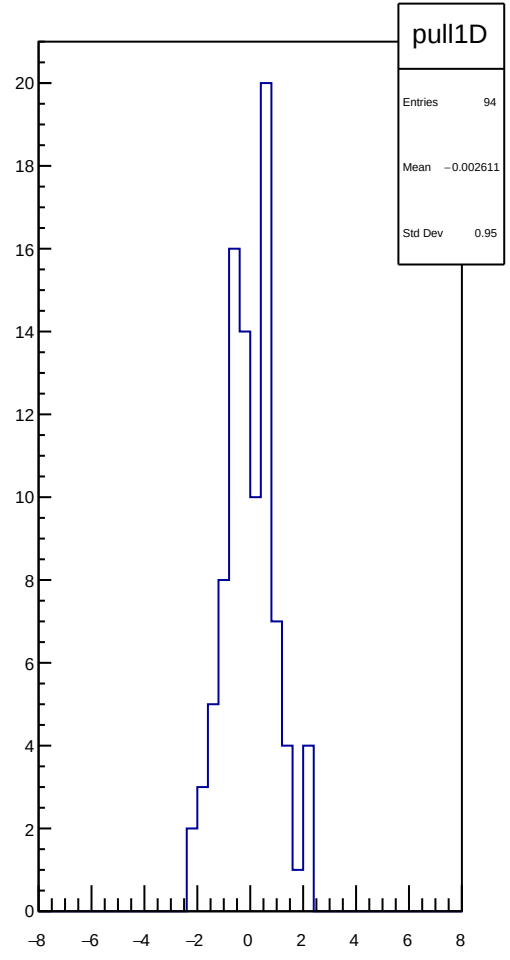

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2728 / 93
p0 50.29 ± 0.03757
58
56
54
52
50
48
46
44

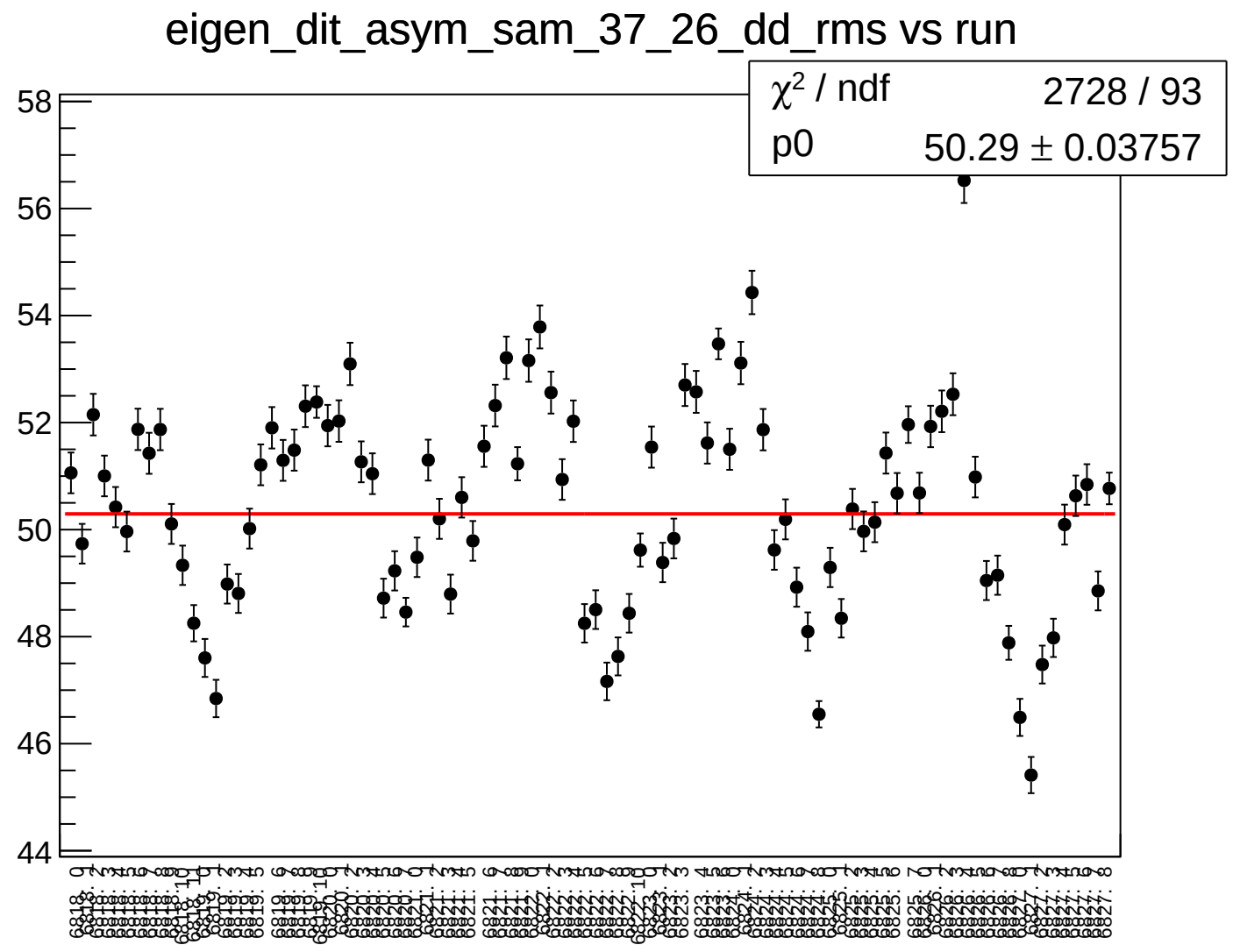

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 98.61 / 93
p0 162.8 ± 135.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 281.2
Std Dev 0
2
1
0
−1
−2
−3

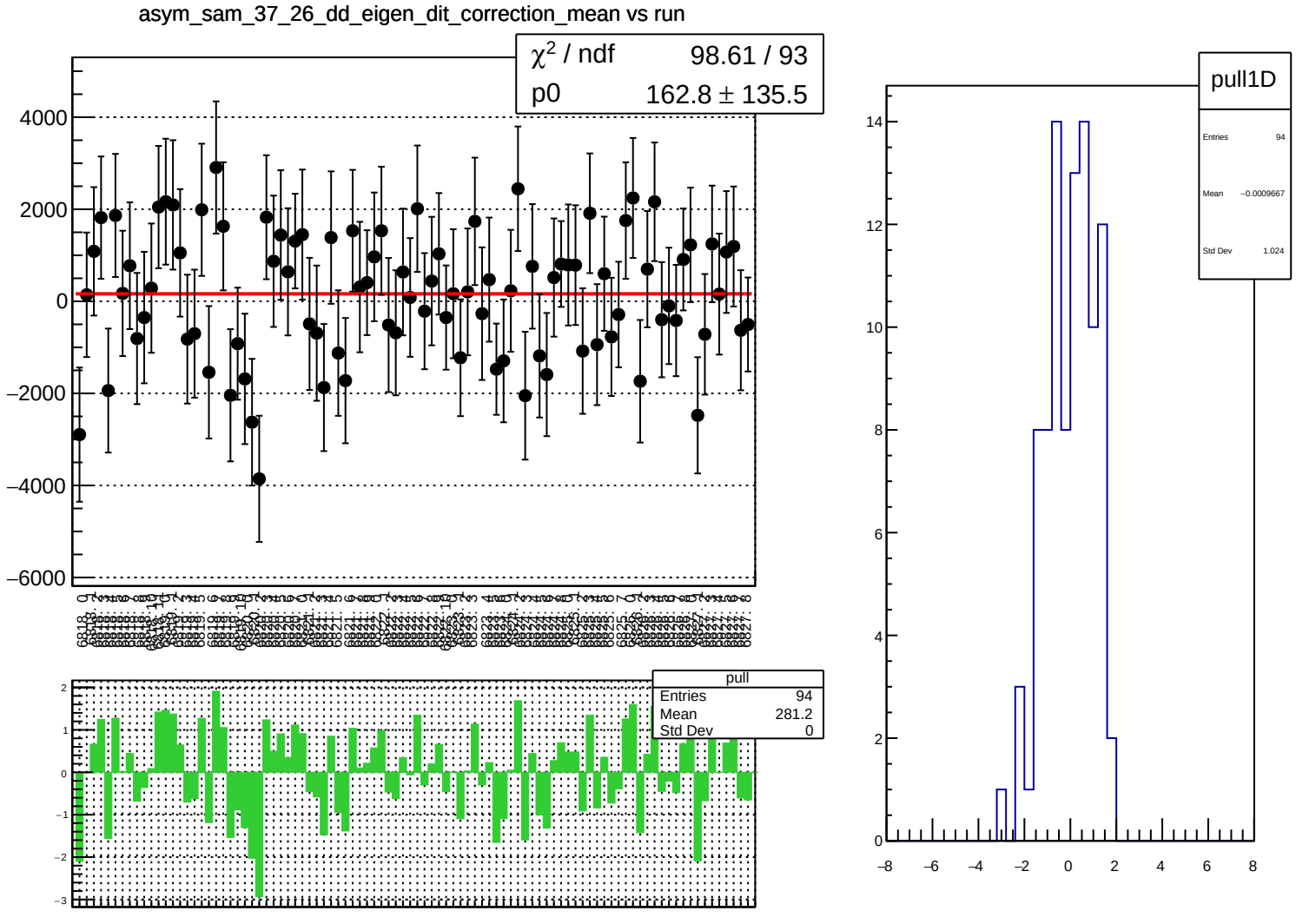

pull1D
Entries 94
Mean −0.0009667
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

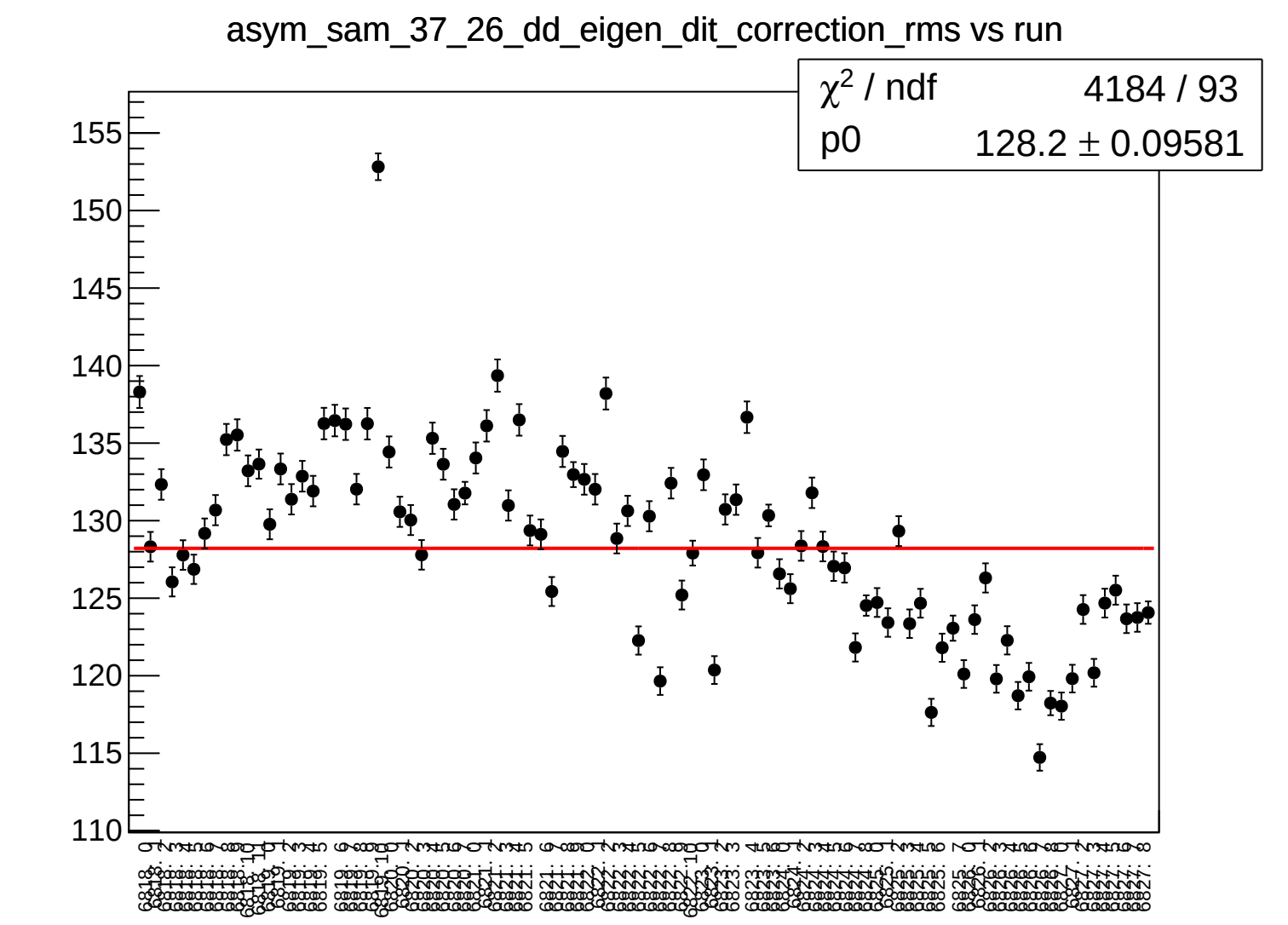

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4184 / 93
p0 128.2 ± 0.09581
155
150
145
140
135
130
125
120
115
110

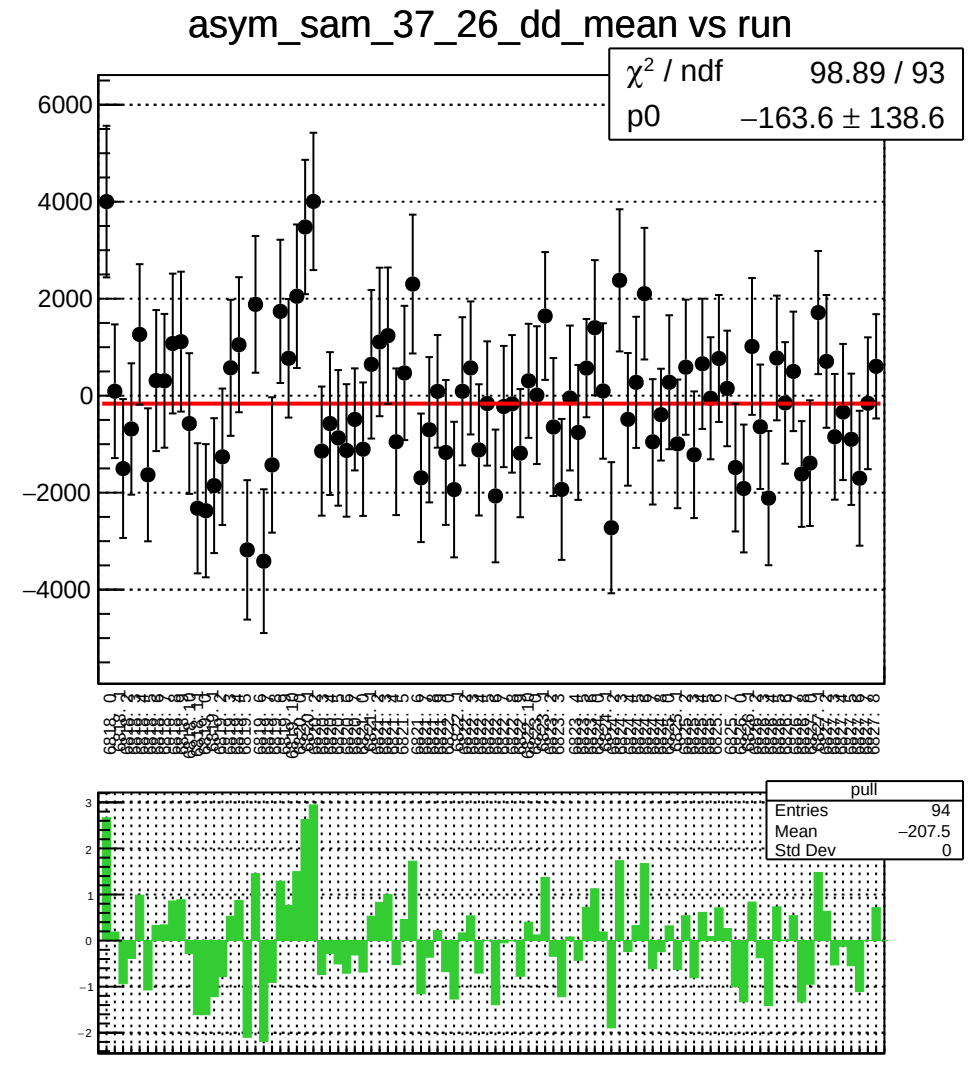

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 84.83 / 93
p0 16.56 ± 53.13
pull
Entries 94
Mean 2076
Std Dev 0

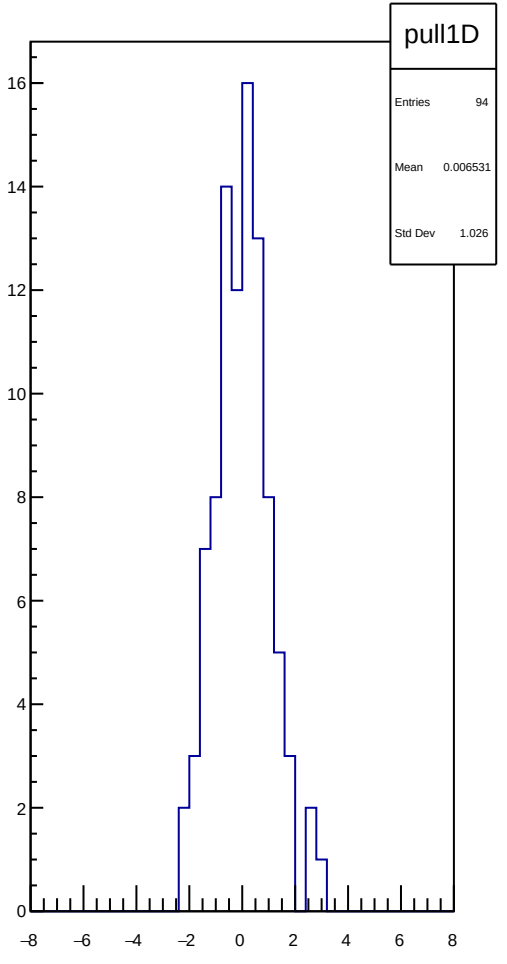

pull1D
Entries 94
Mean −0.002611
Std Dev 0.95

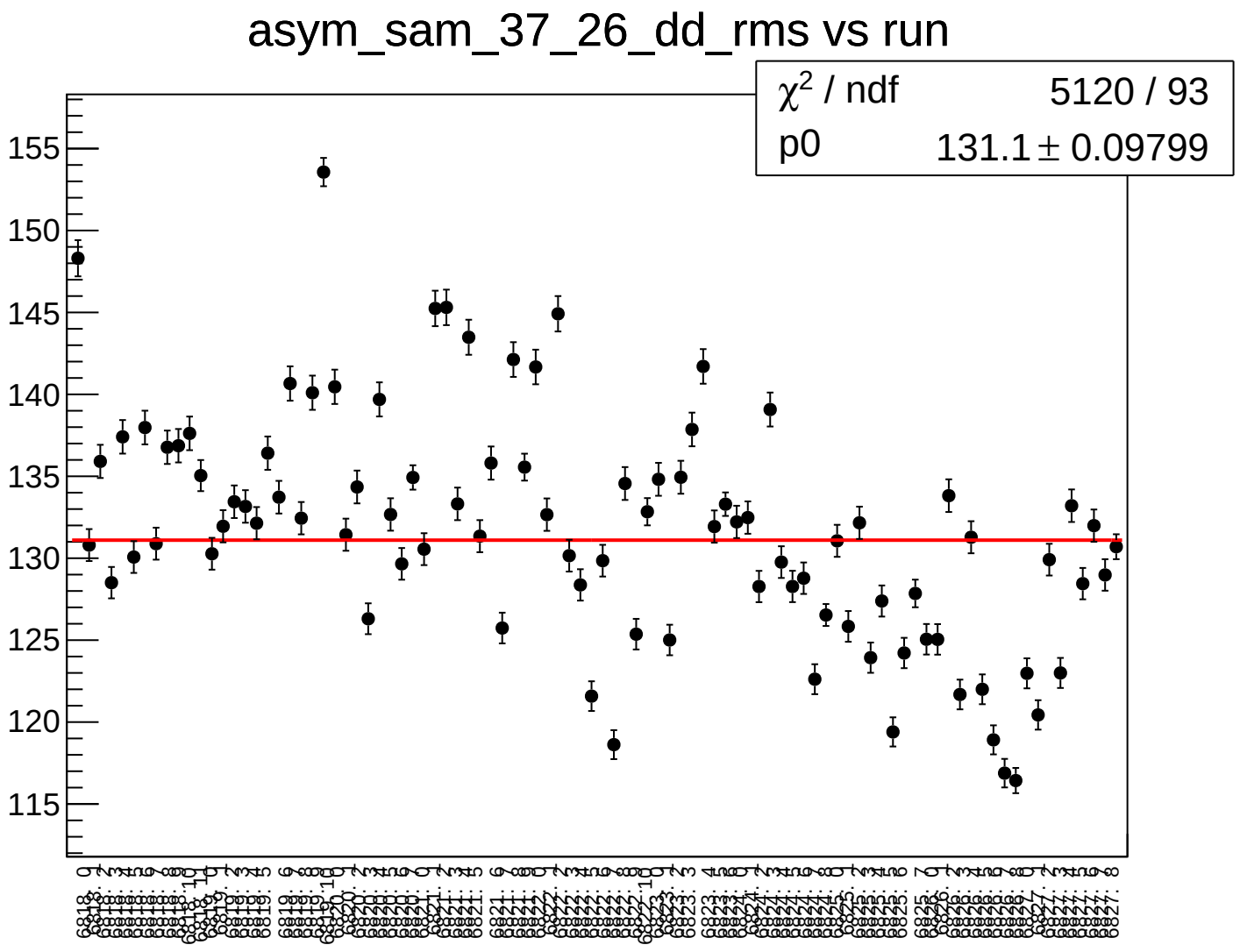

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 2728 / 93
p0 50.29 ± 0.03757
58
56
54
52
50
48
46
44

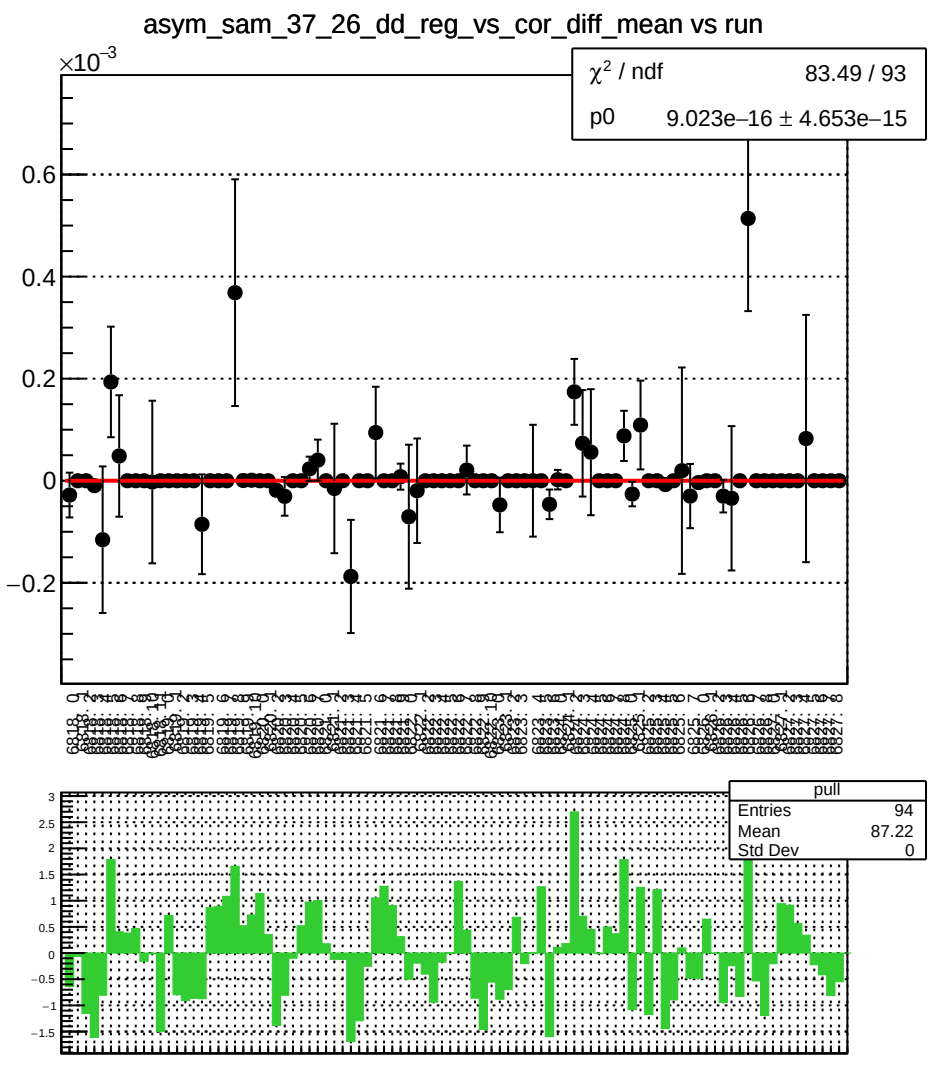

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 98.61 / 93
p0 162.8 ± 135.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean 281.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean −0.0009667
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

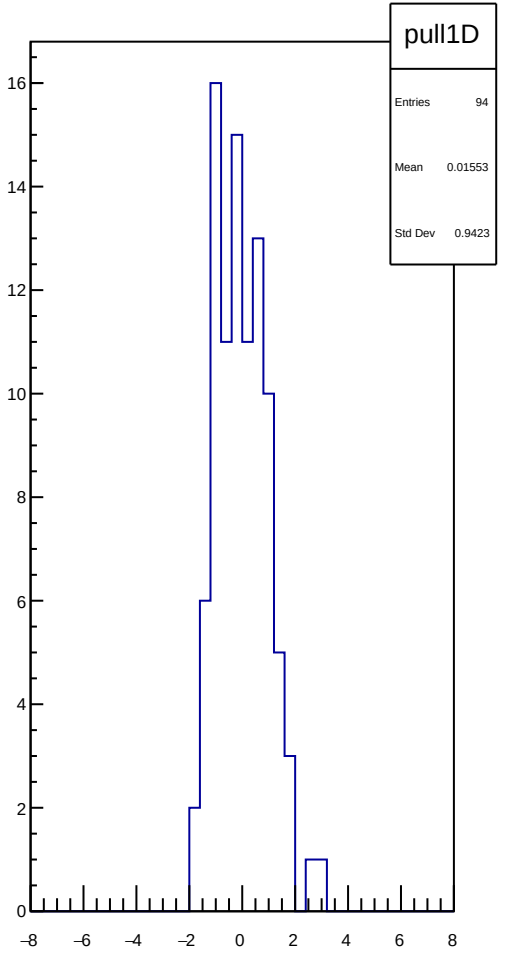

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4184 / 93
p0 128.2 ± 0.09581
155
150
145
140
135
130
125
120
115
110

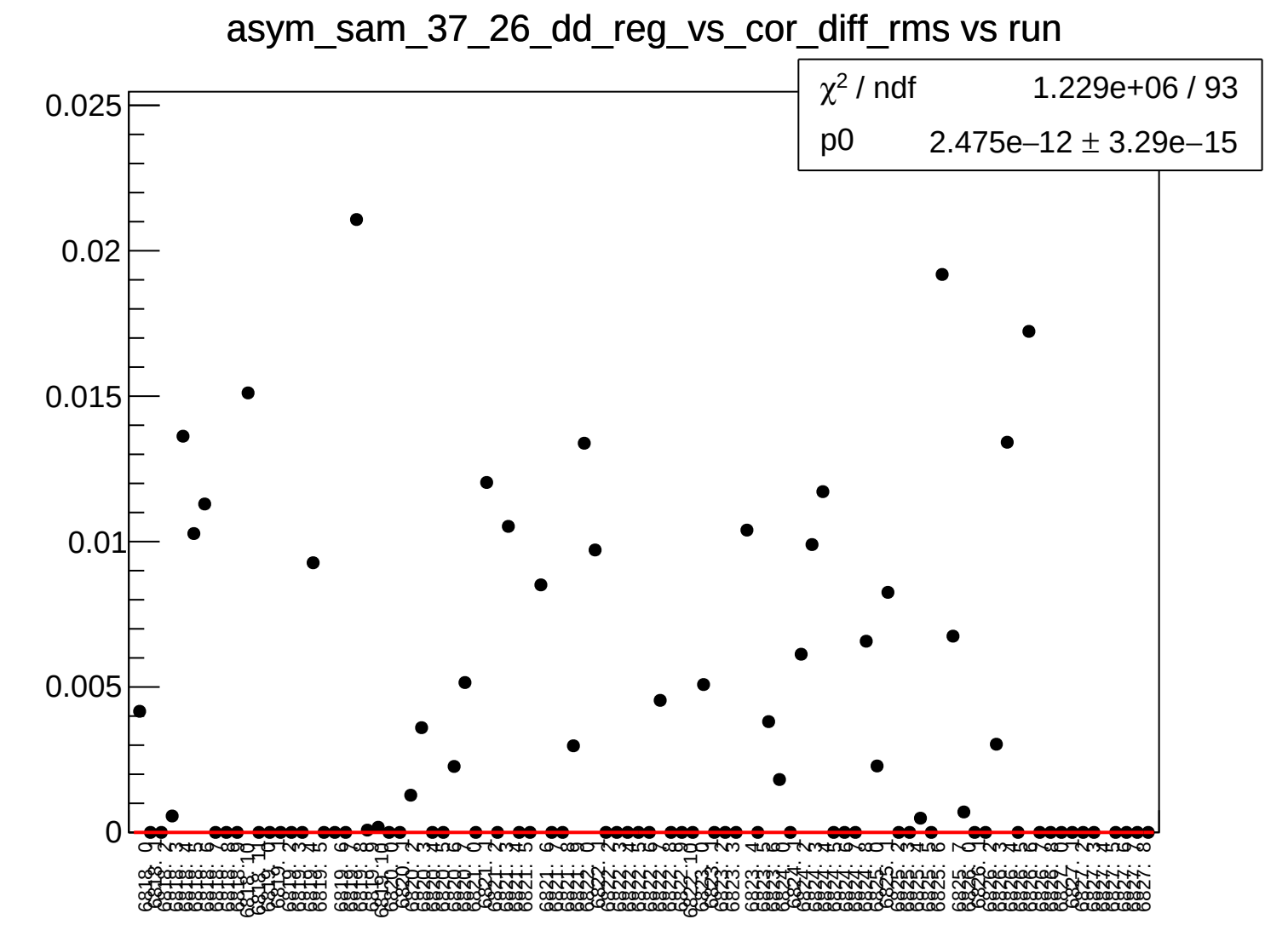

asym_sam_37_26_dd_mean vs run
χ² / ndf 98.89 / 93
p0 −163.6 ± 138.6
6000
4000
2000
0
−2000
−4000
pull
Entries 94
Mean −207.5
Std Dev 0
3
2
1
0
−1
−2

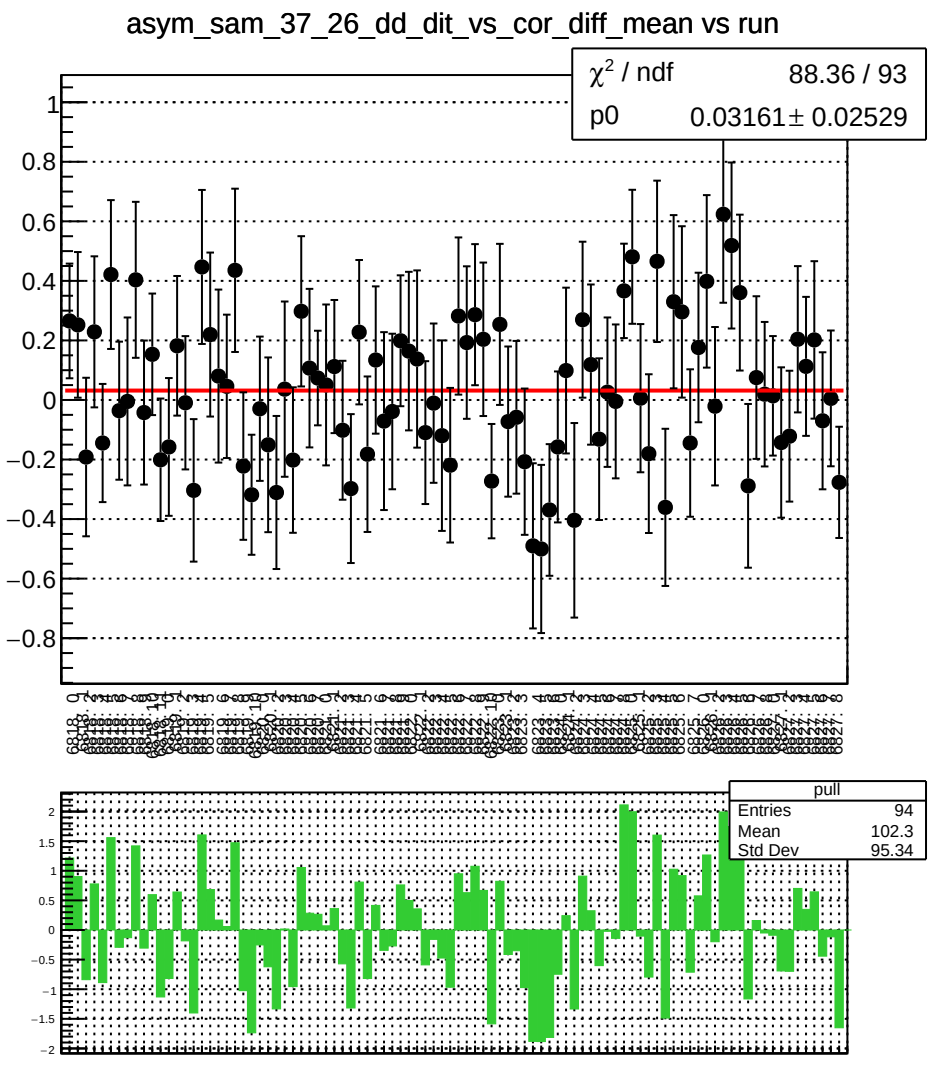

pull1D
Entries 94
Mean 0.006531
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

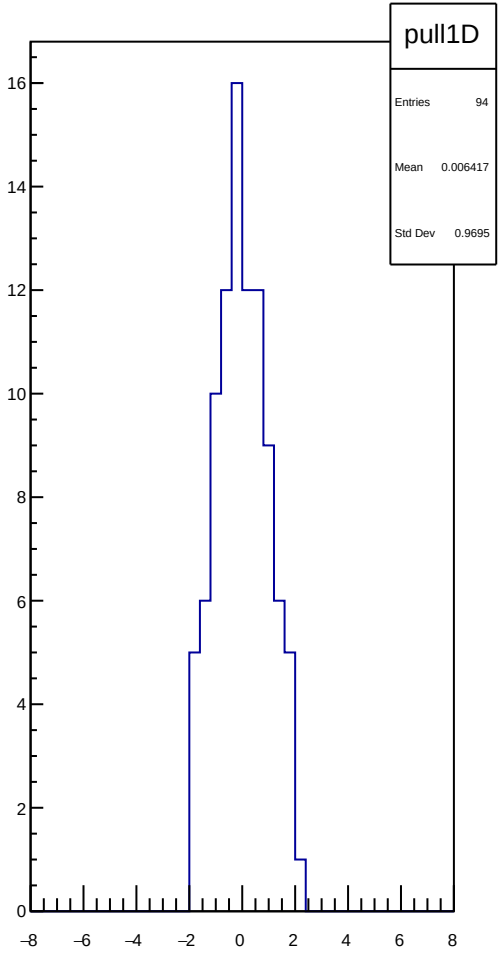

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5120 / 93
p0 131.1 ± 0.09799
155
150
145
140
135
130
125
120
115

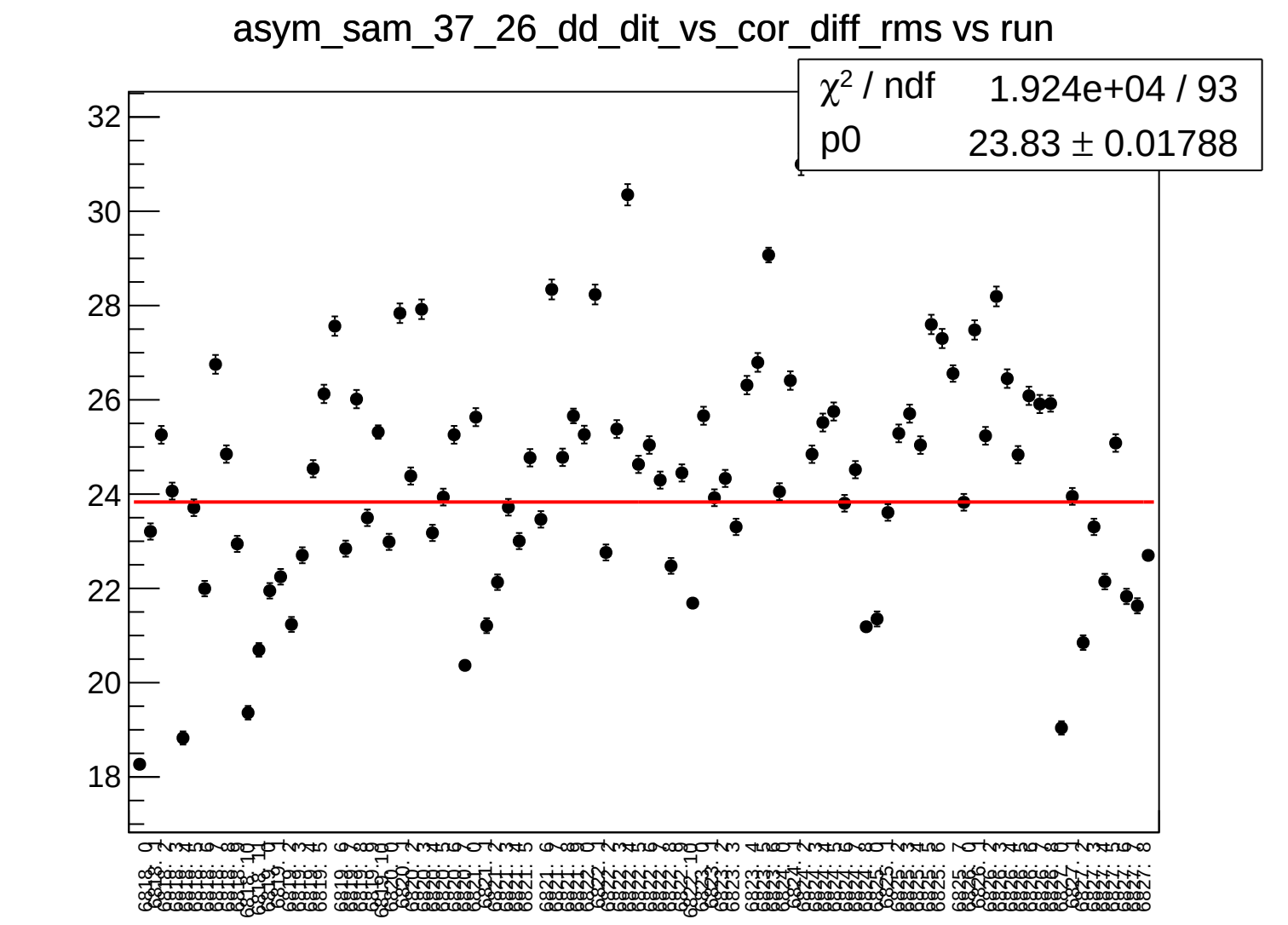

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 83.49 / 93
p0 9.023e−16 ± 4.653e−15
0.6
0.4
0.2
0
−0.2
pull
Entries 94
Mean 87.22
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

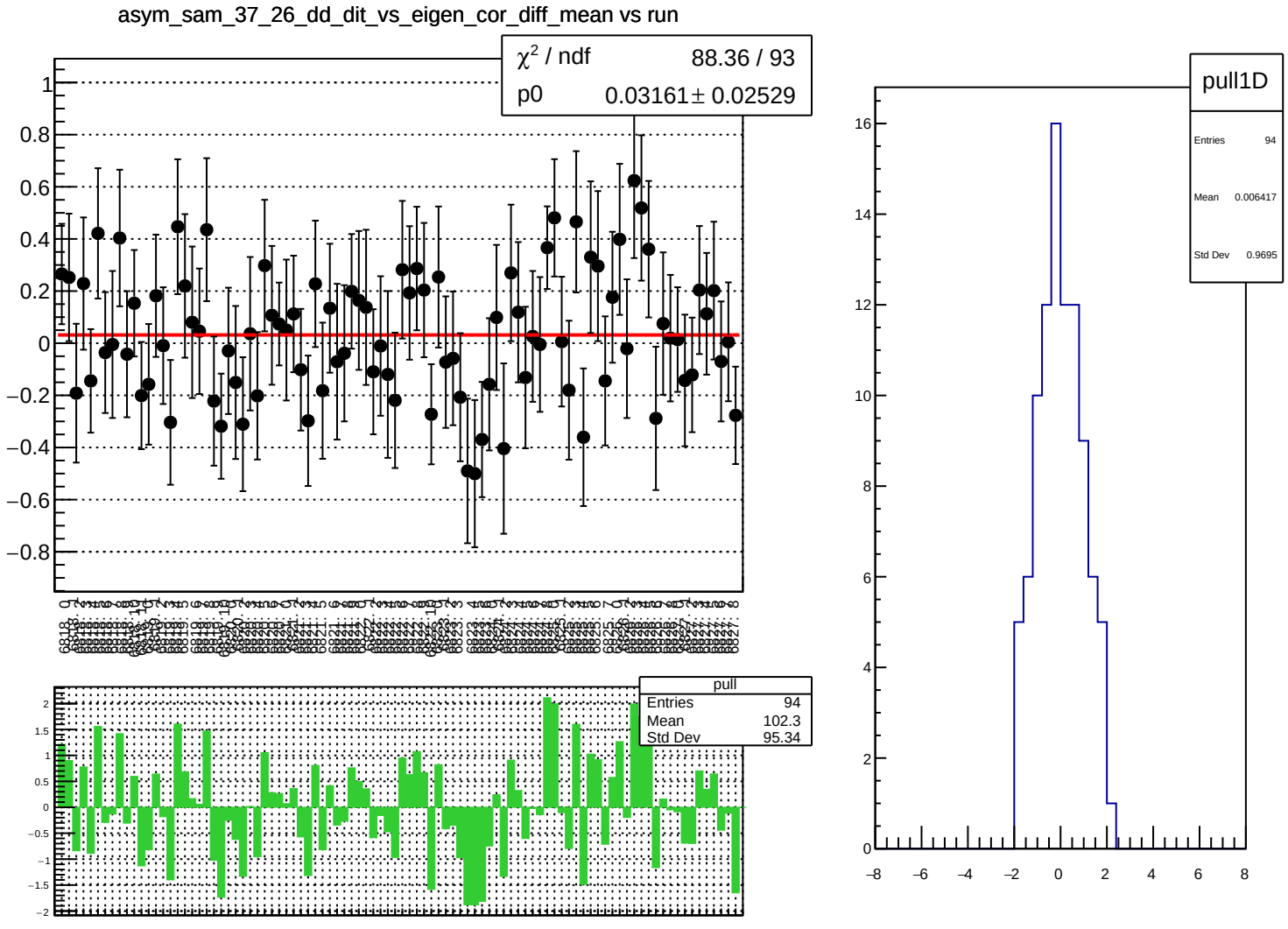

pull1D
Entries 94
Mean 0.01553
Std Dev 0.9423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

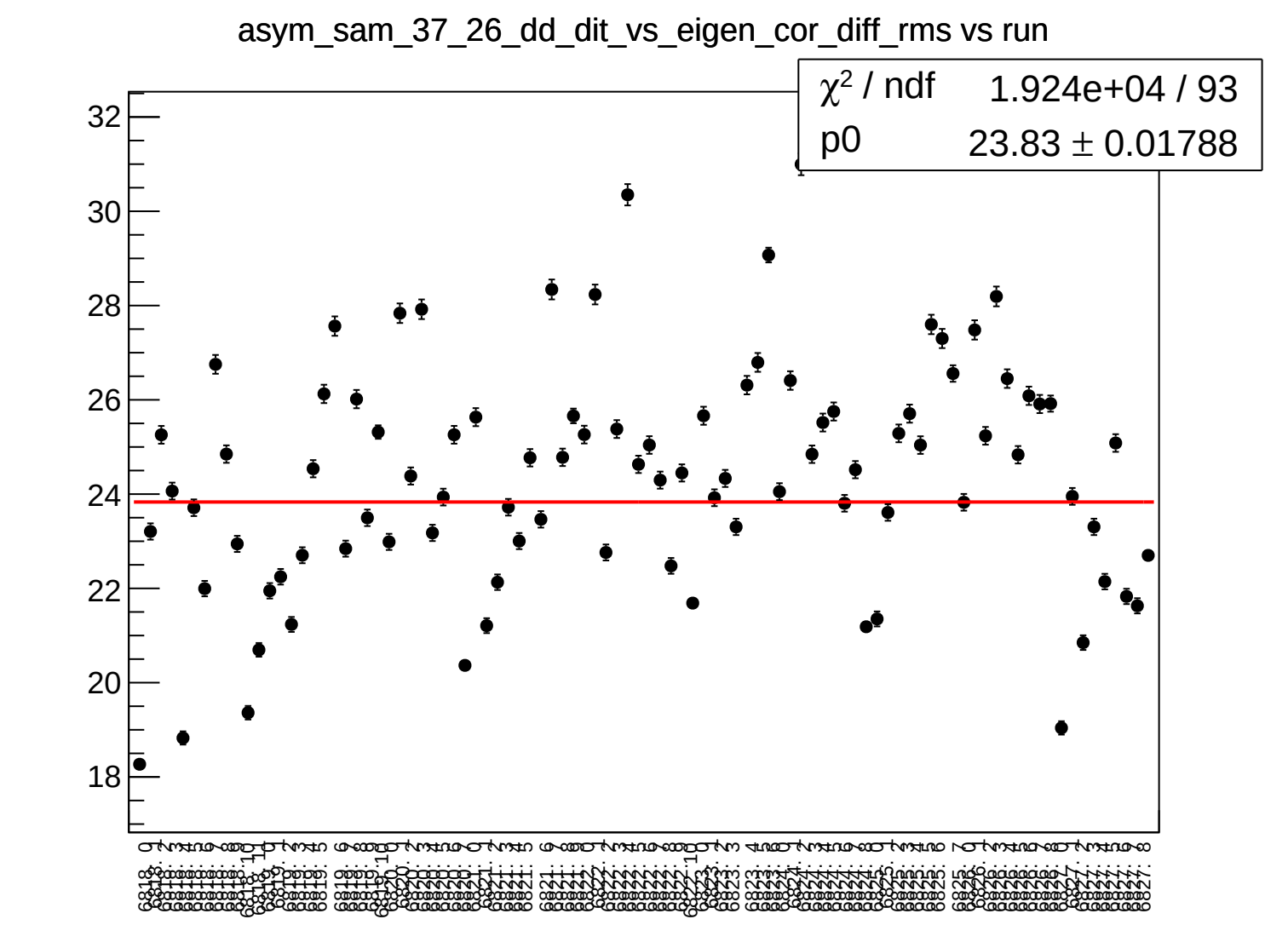

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.229e+06 / 93
p0 2.475e−12 ± 3.29e−15
0.025
0.02
0.015
0.01
0.005
0

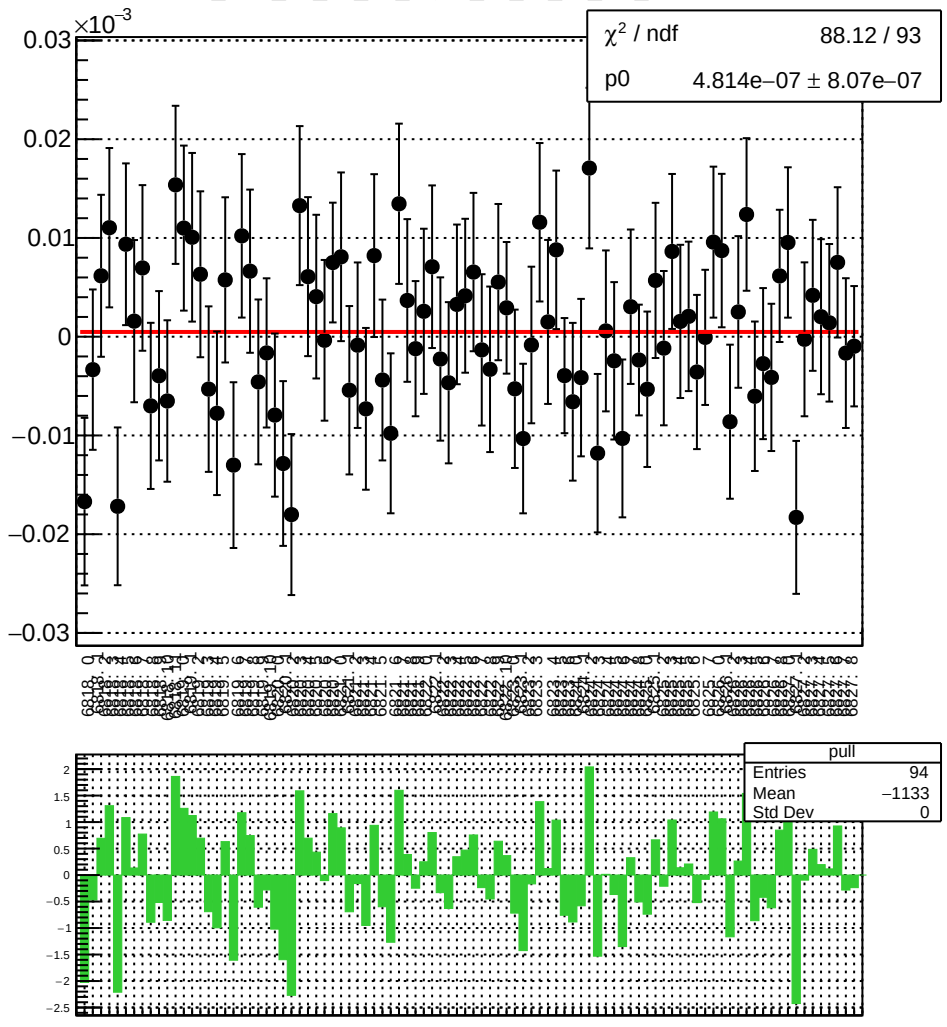

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.36 / 93
p0 0.03161 ± 0.02529
pull
Entries 94
Mean 102.3
Std Dev 95.34

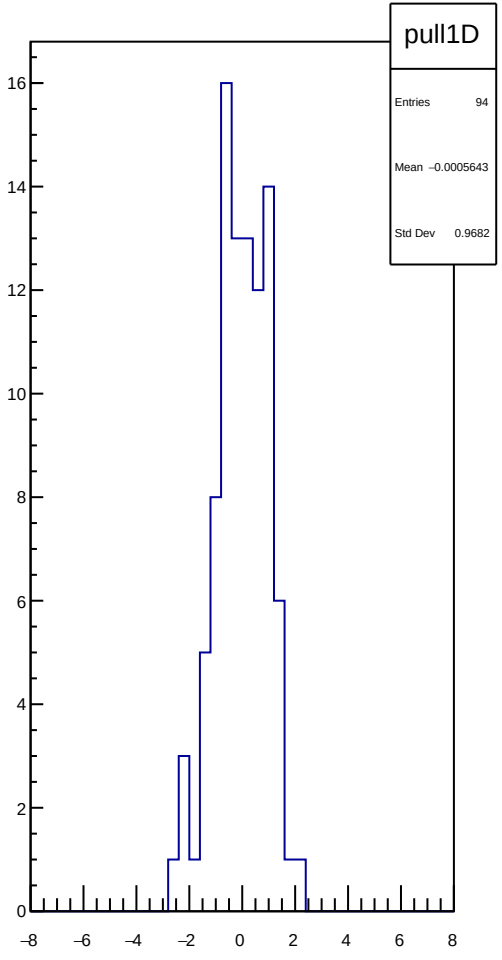

pull1D
Entries 94
Mean 0.006417
Std Dev 0.9695

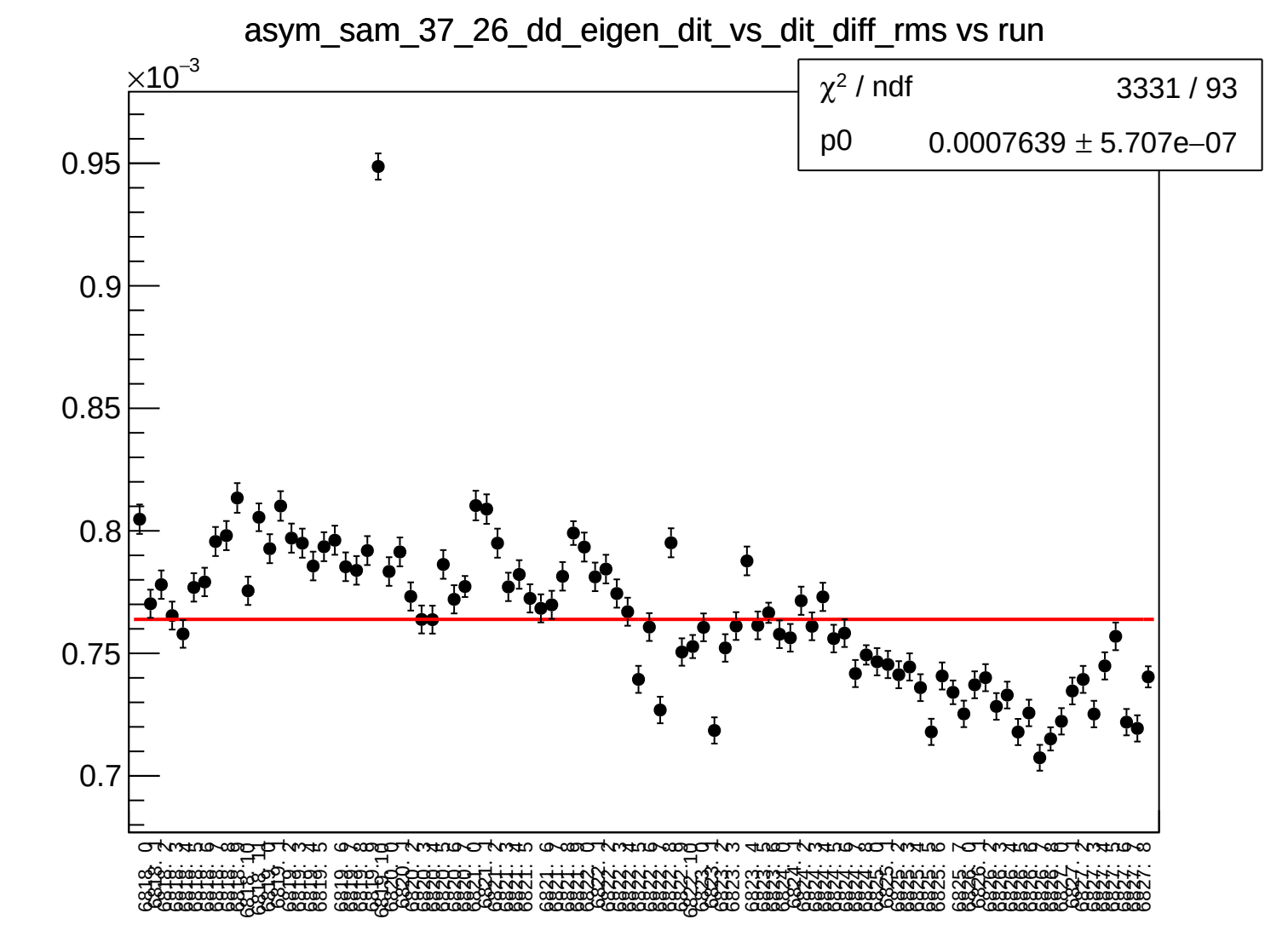

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 93
p0 23.83 ± 0.01788
32
30
28
26
24
22
20
18

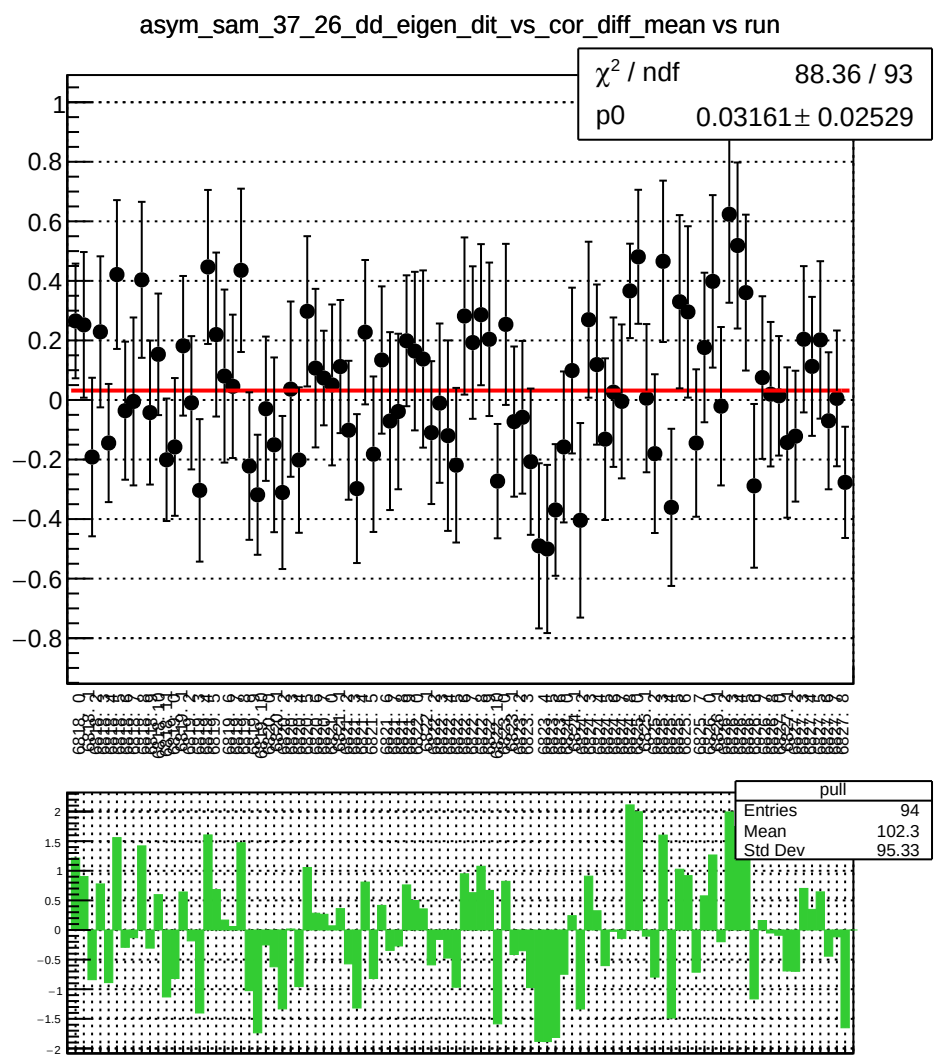

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.36 / 93
p0 0.03161 ± 0.02529
pull
Entries 94
Mean 102.3
Std Dev 95.34
pull1D
Entries 94
Mean 0.006417
Std Dev 0.9695

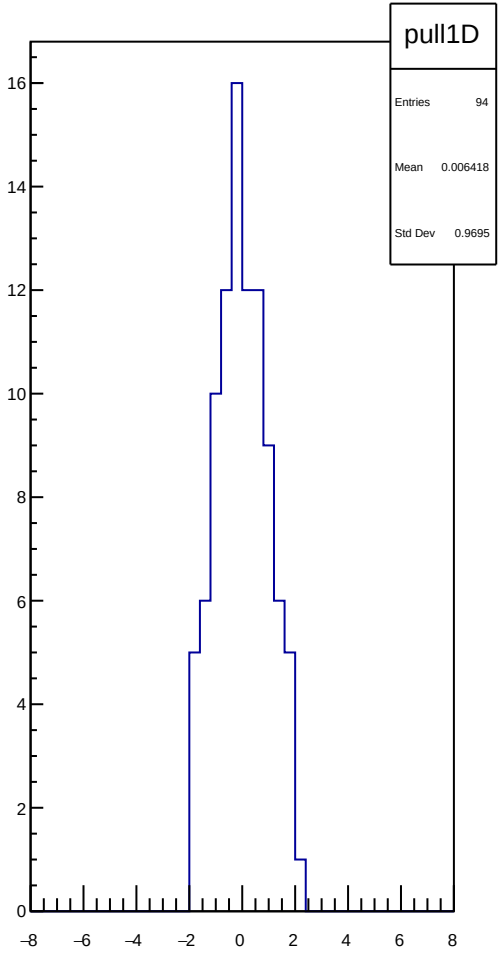

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 93
p0 23.83 ± 0.01788
32
30
28
26
24
22
20
18

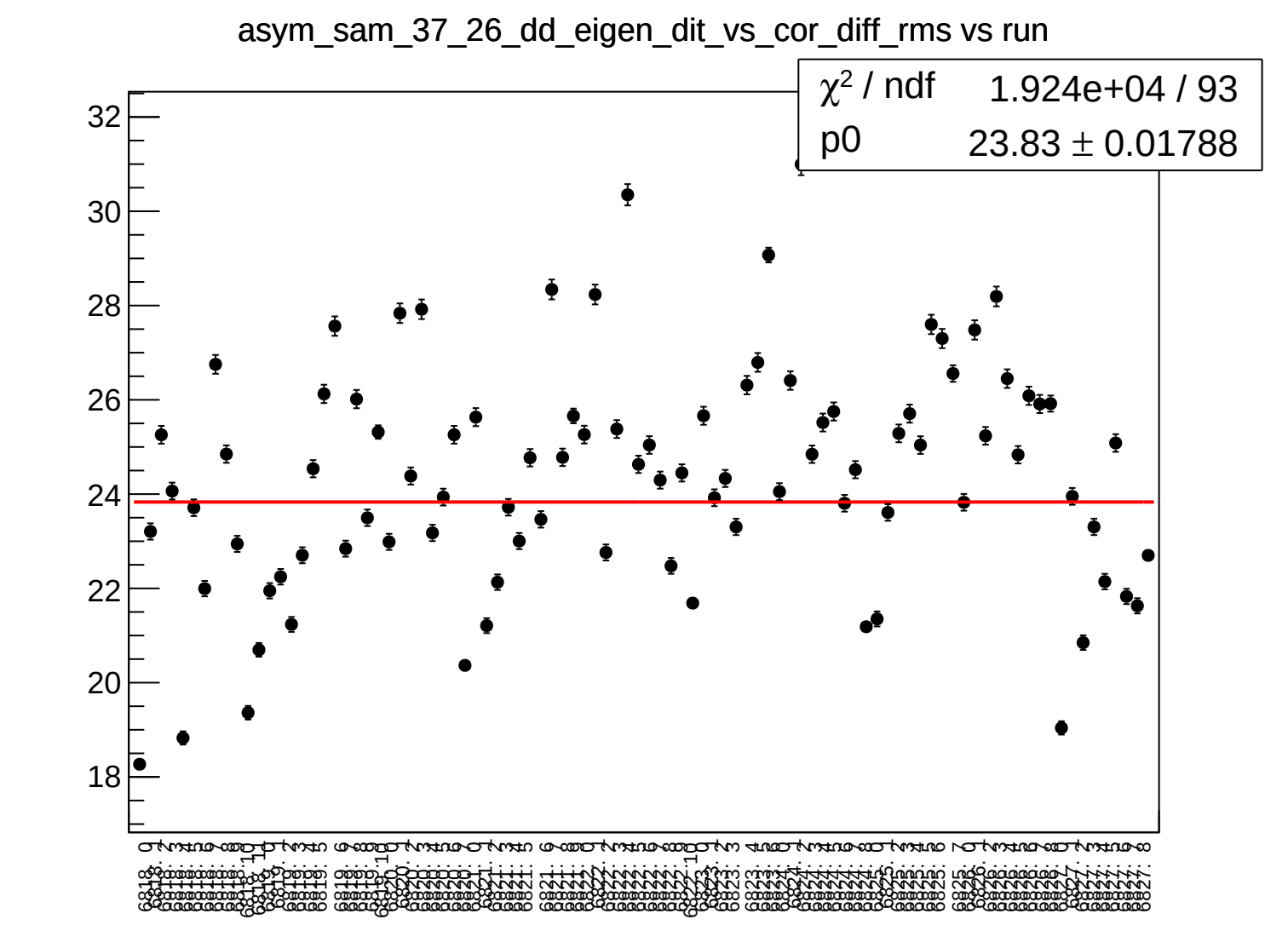

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.12 / 93
p0 4.814e−07 ± 8.07e−07
pull
Entries 94
Mean −1133
Std Dev 0

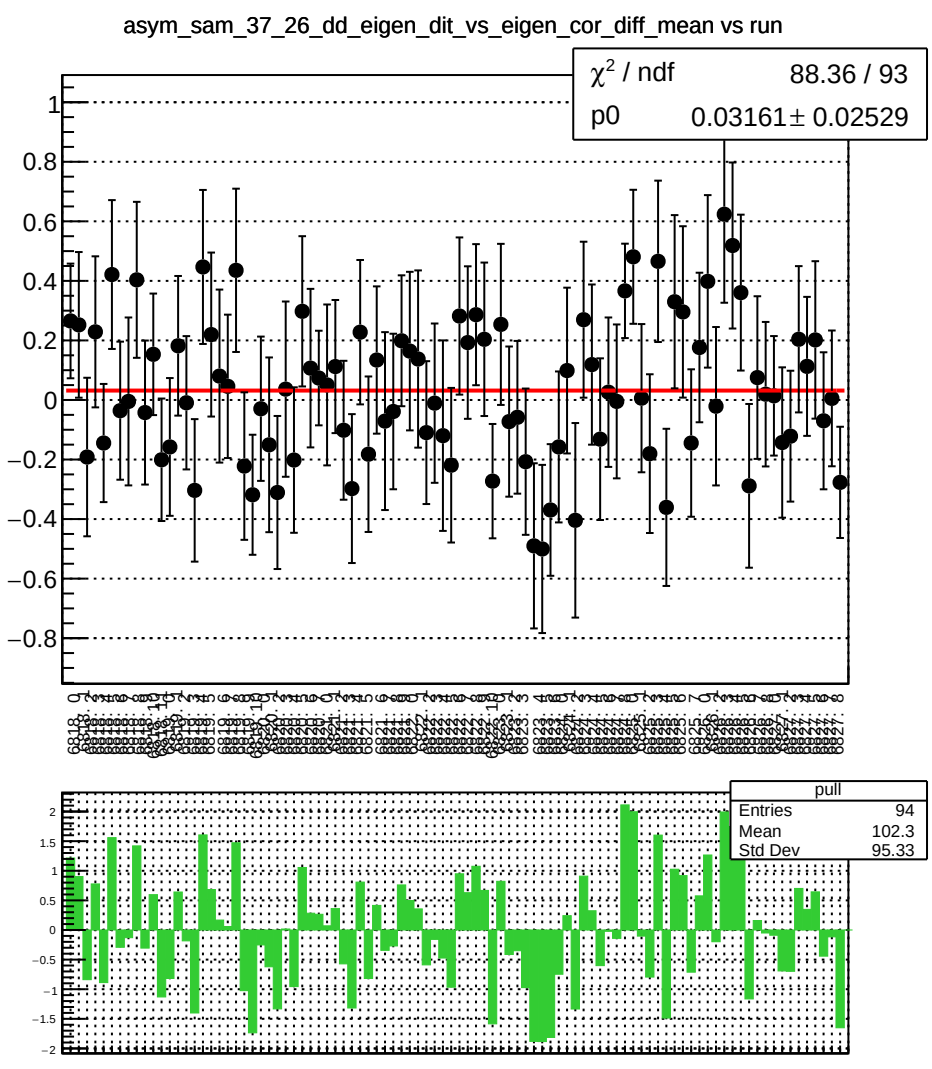

pull1D
Entries 94
Mean −0.0005643
Std Dev 0.9682

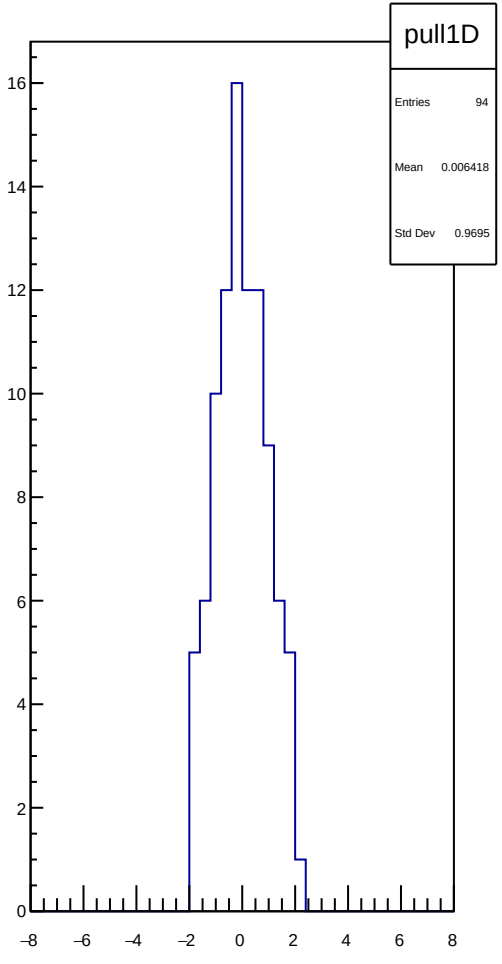

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3331 / 93
p0 0.0007639 ± 5.707e−07
0.95
0.9
0.85
0.8
0.75
0.7

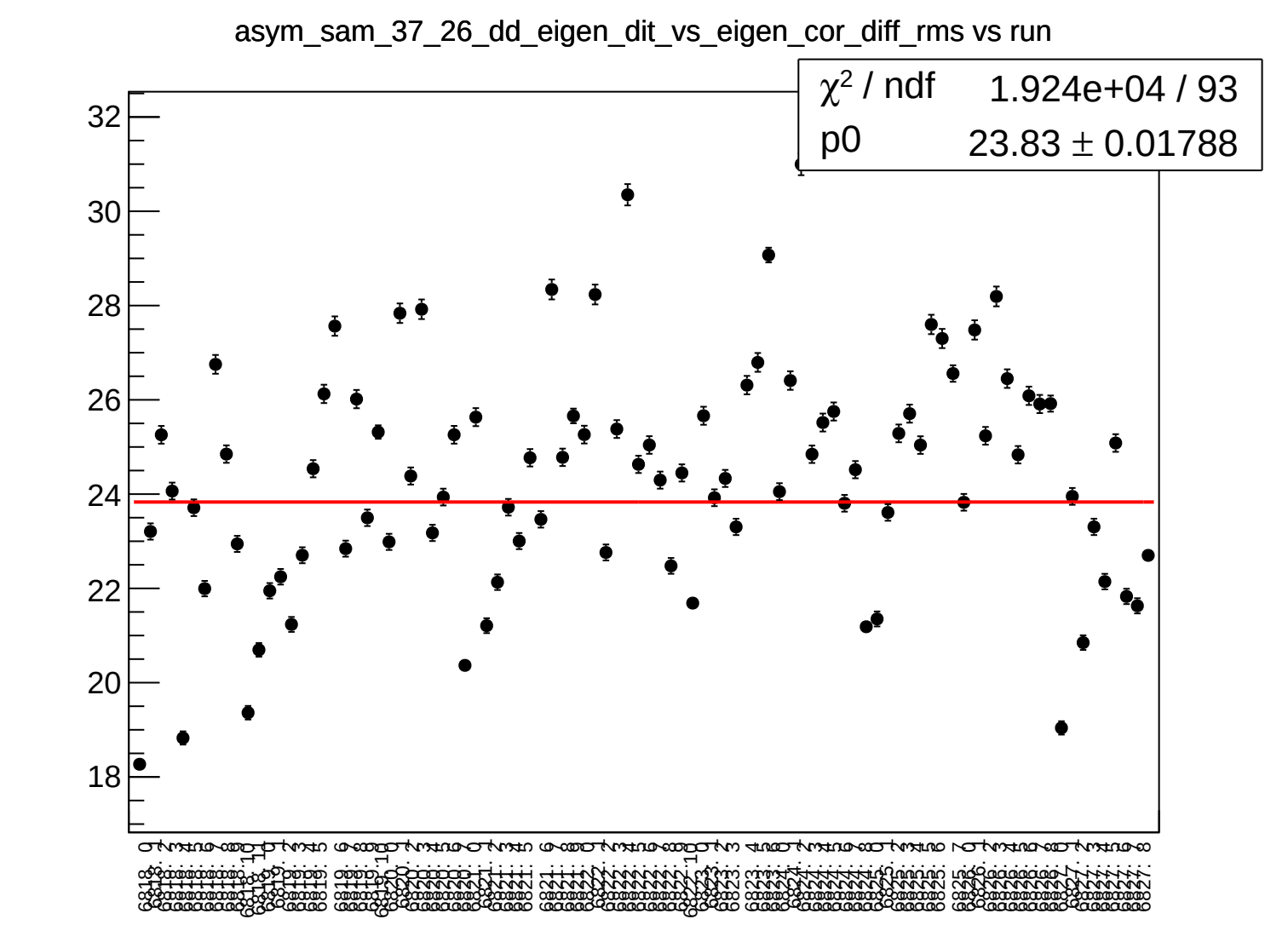

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.36 / 93
p0 0.03161 ± 0.02529
pull
Entries 94
Mean 102.3
Std Dev 95.33

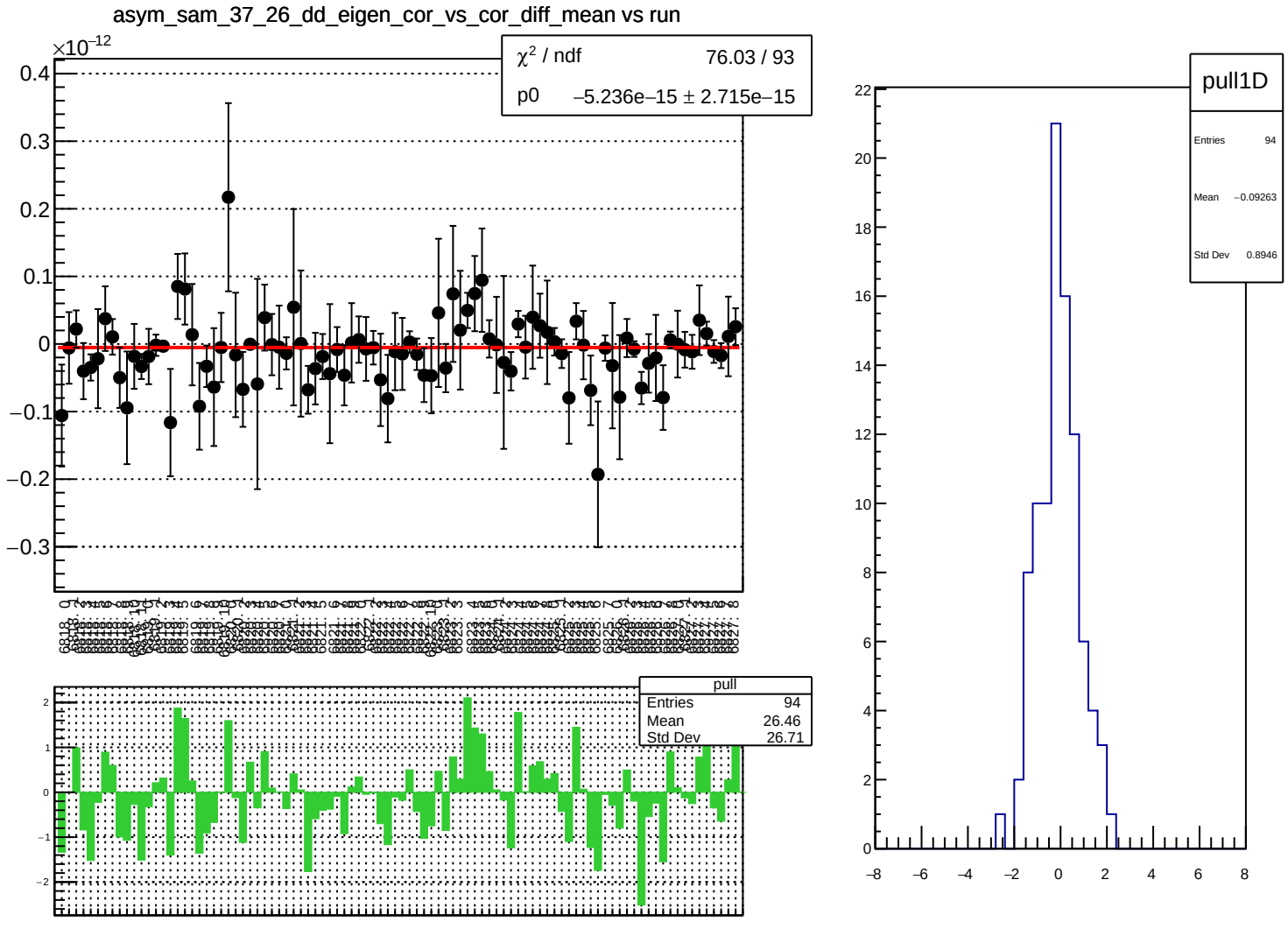

pull1D
Entries 94
Mean 0.006418
Std Dev 0.9695

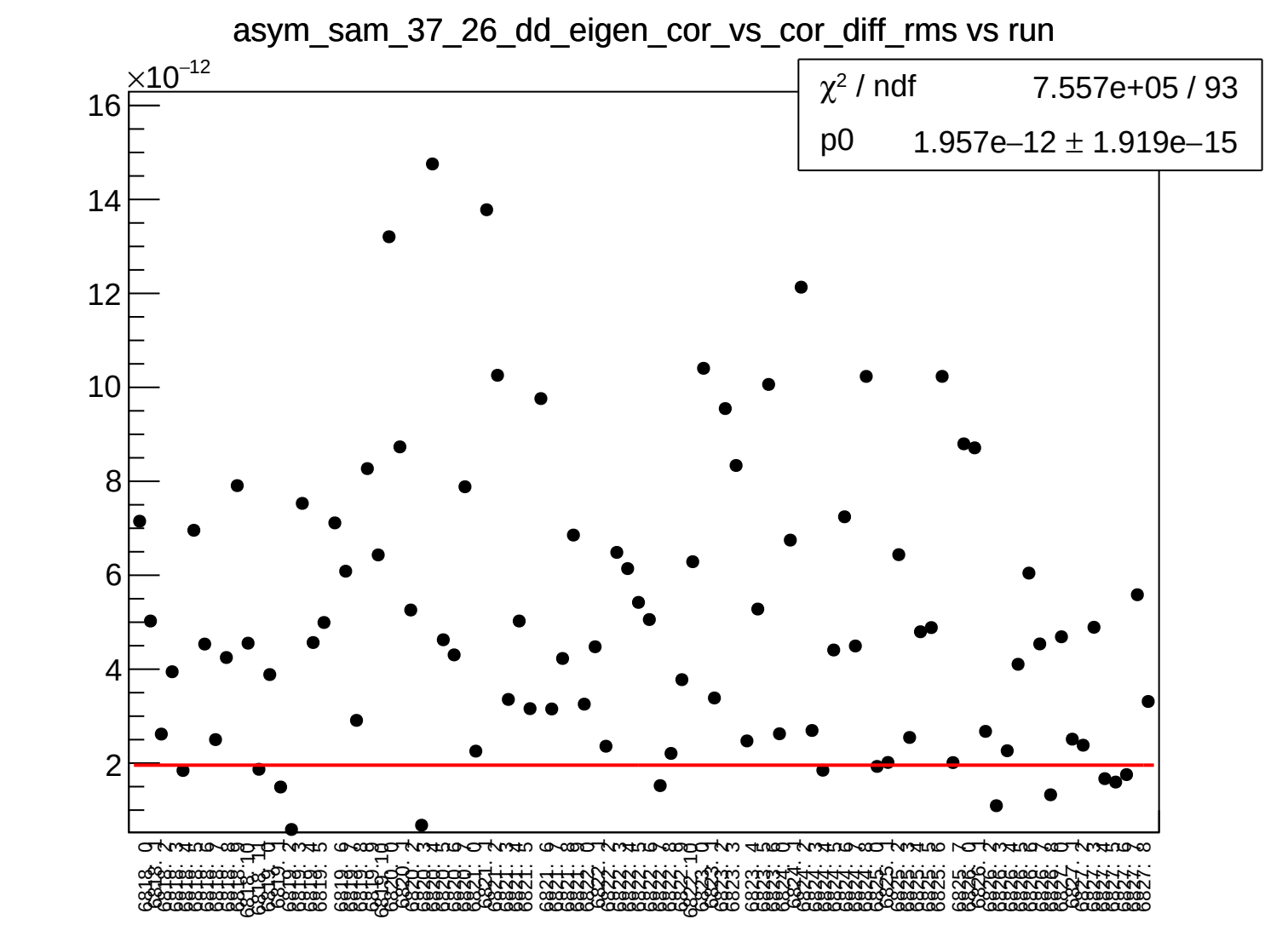

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 93
p0 23.83 ± 0.01788
32
30
28
26
24
22
20
18

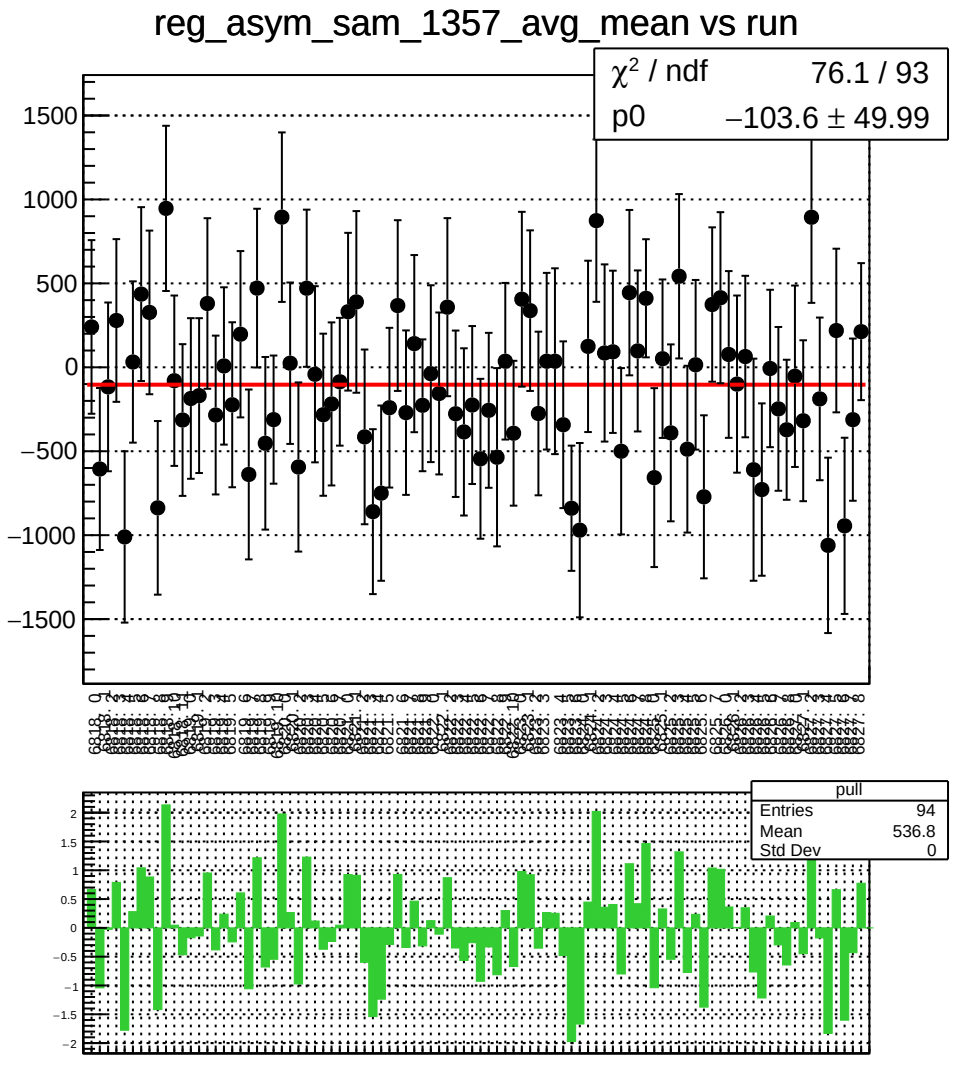

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.36 / 93
p0 0.03161 ± 0.02529
pull
Entries 94
Mean 102.3
Std Dev 95.33

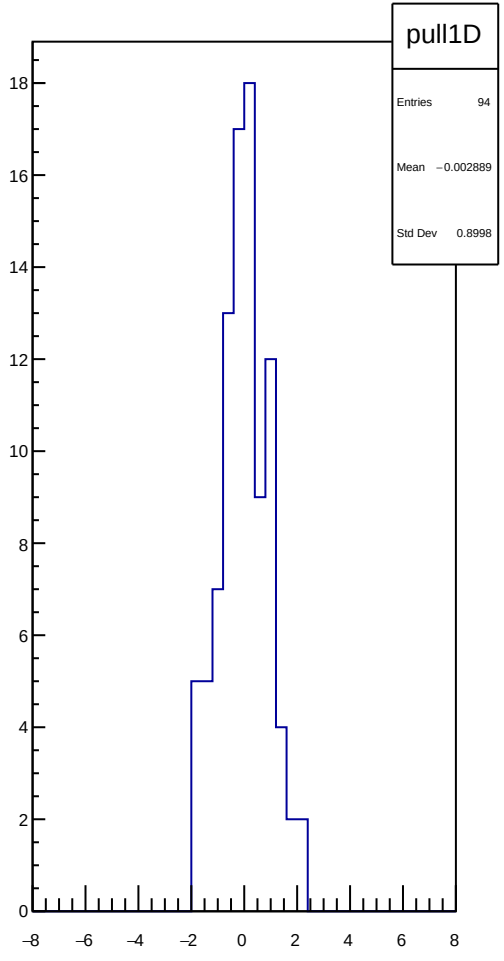

pull1D
Entries 94
Mean 0.006418
Std Dev 0.9695

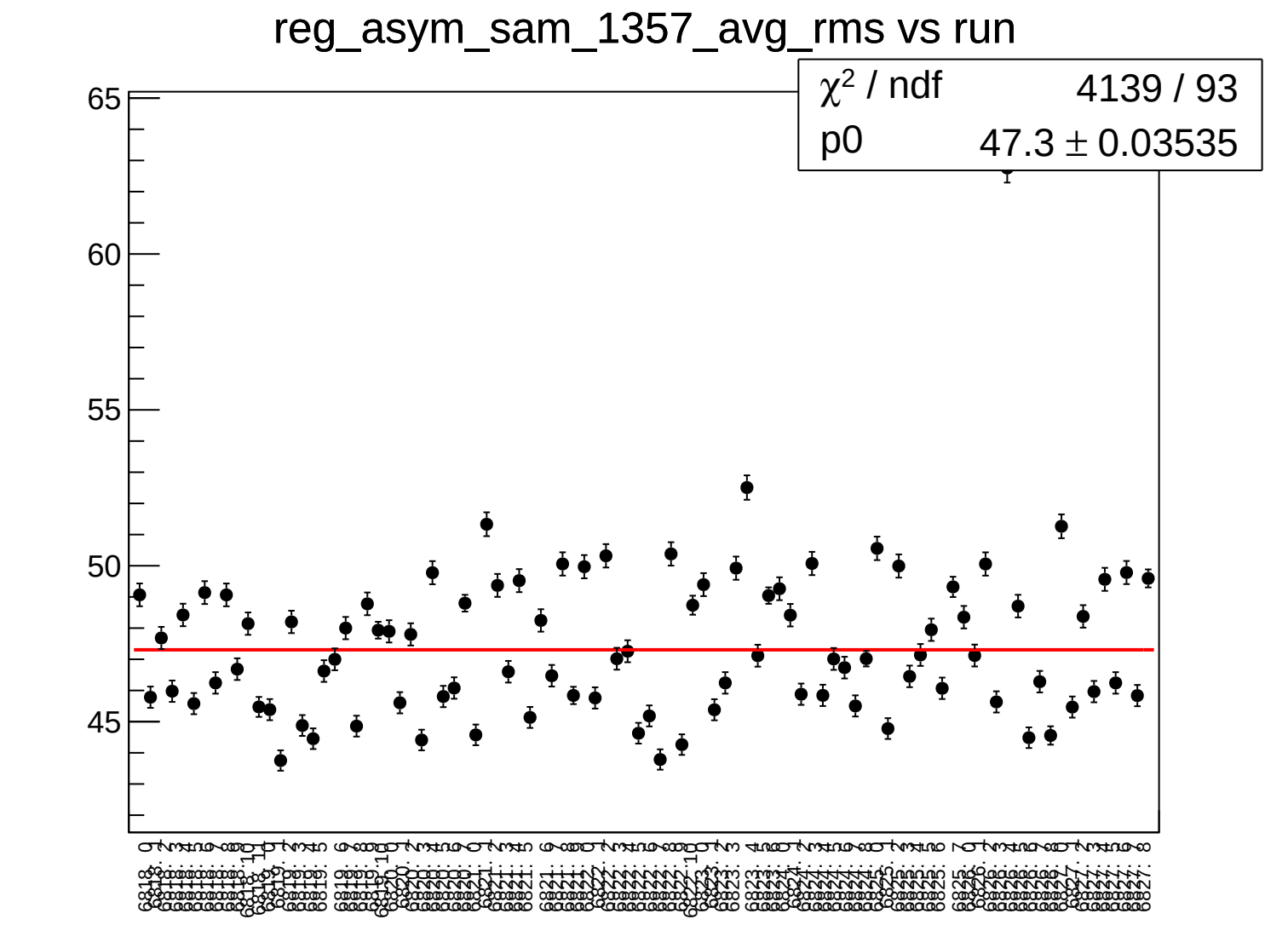

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.924e+04 / 93
p0 23.83 ± 0.01788
32
30
28
26
24
22
20
18

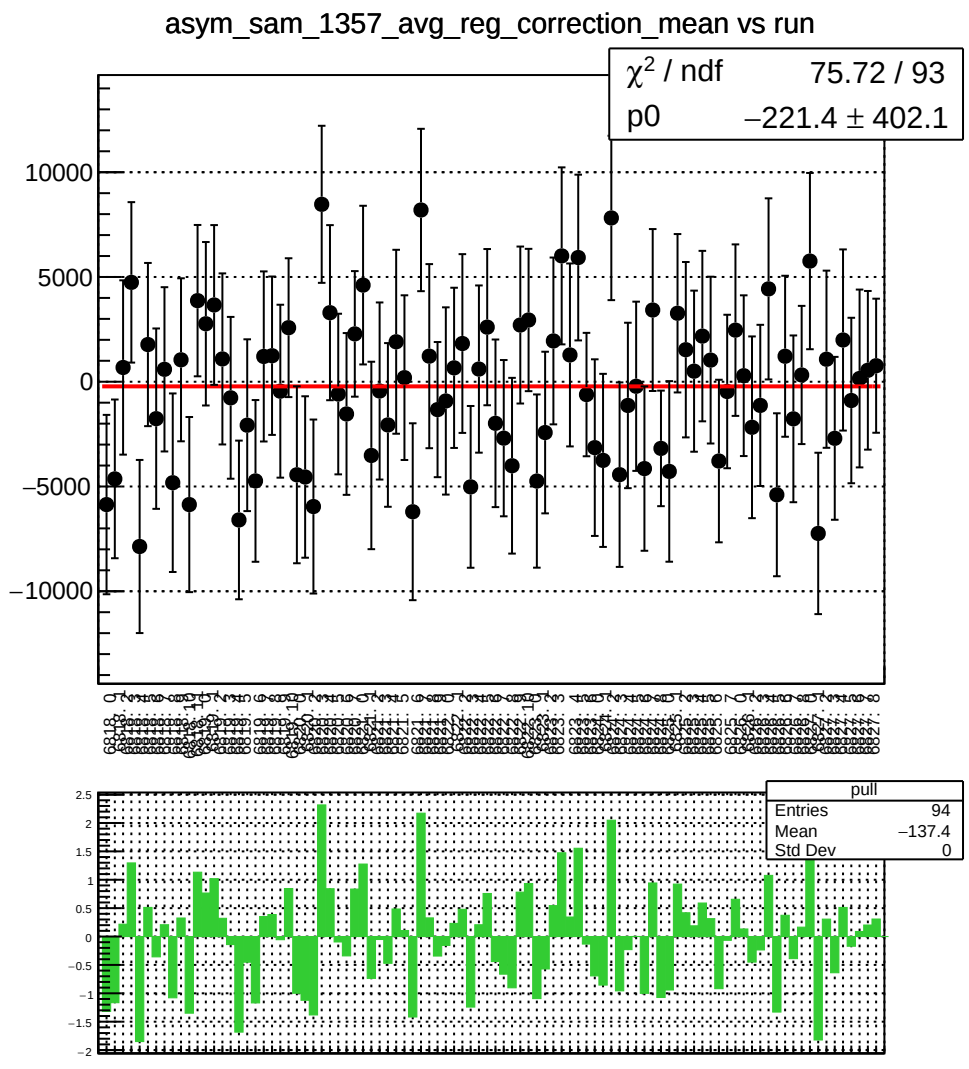

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.03 / 93
p0 −5.236e−15 ± 2.715e−15
pull
Entries 94
Mean 26.46
Std Dev 26.71
pull1D
Entries 94
Mean −0.09263
Std Dev 0.8946

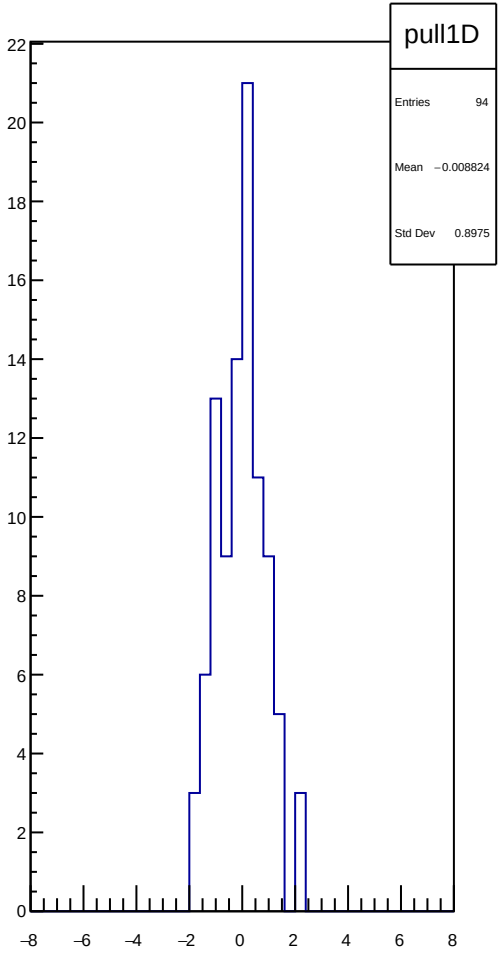

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.557e+05 / 93
p0 1.957e−12 ± 1.919e−15
16
14
12
10
8
6
4
2

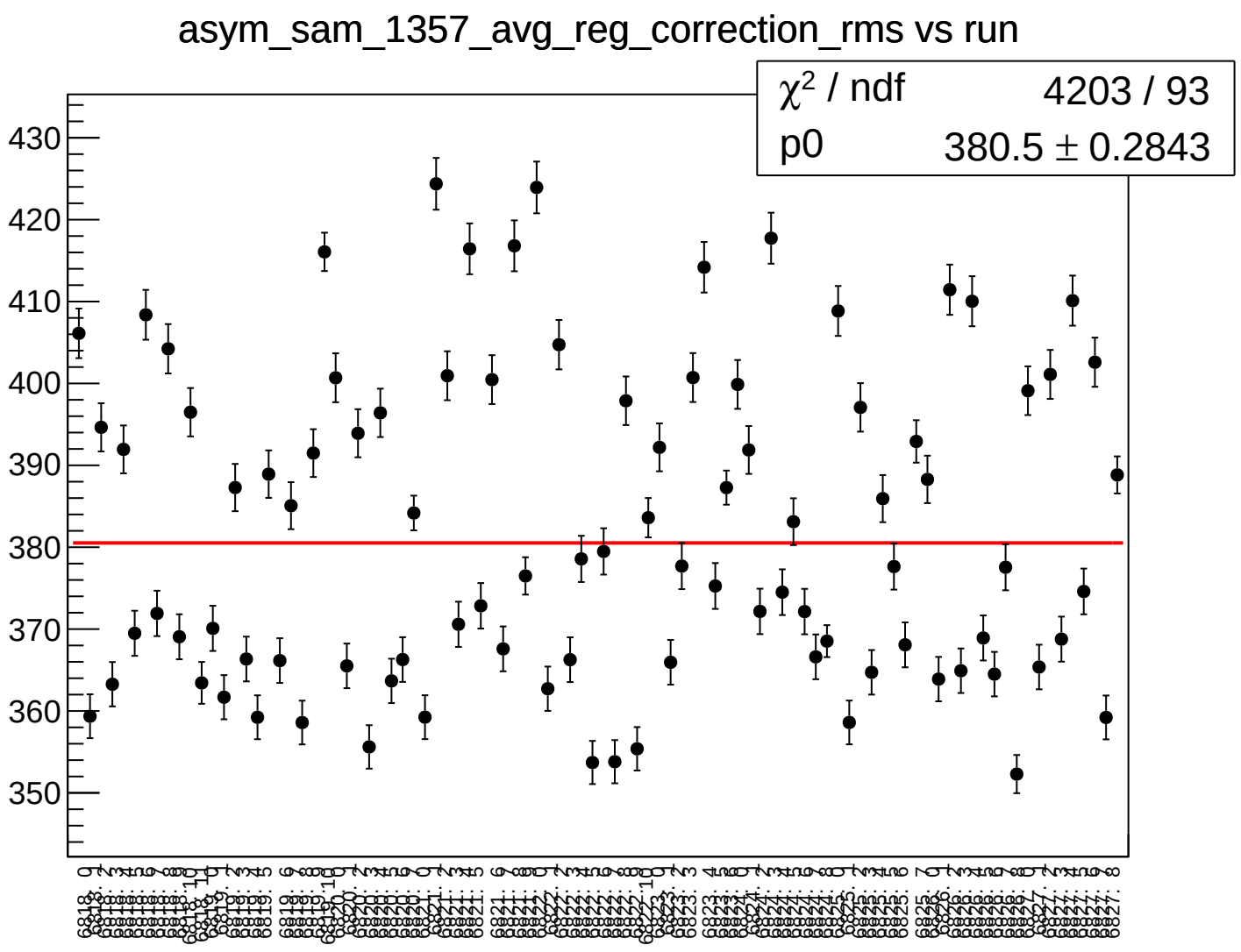

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 76.1 / 93
p0 −103.6 ± 49.99
pull
Entries 94
Mean 536.8
Std Dev 0

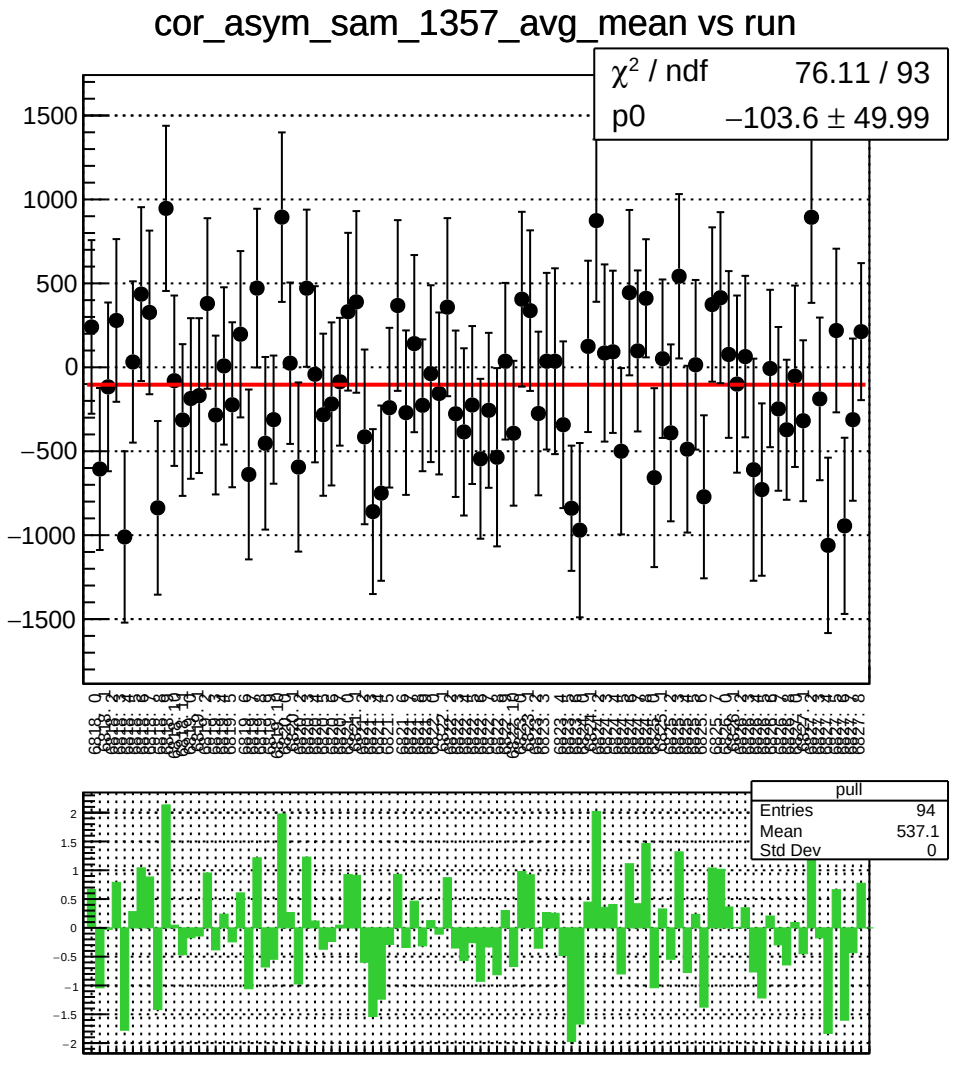

pull1D
Entries 94
Mean −0.002889
Std Dev 0.8998

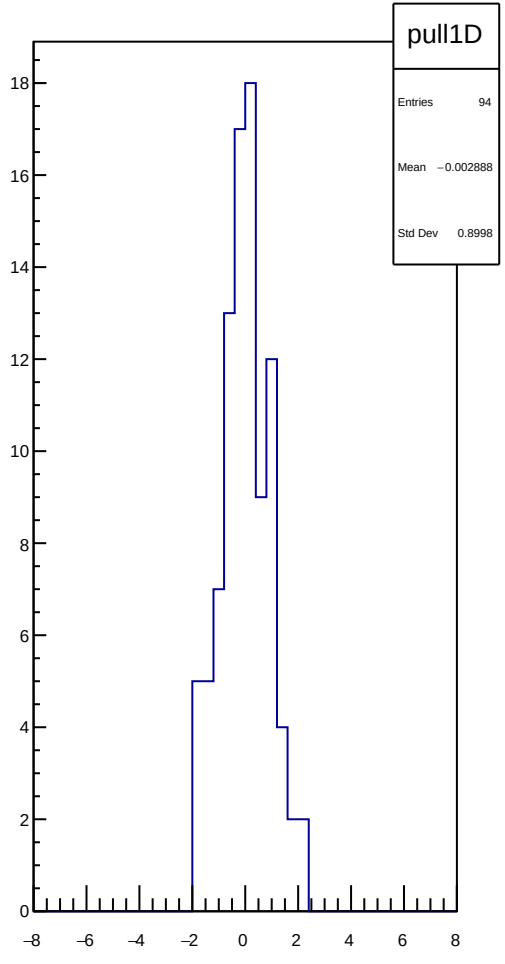

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4139 / 93
p0 47.3 ± 0.03535
65
60
55
50
45

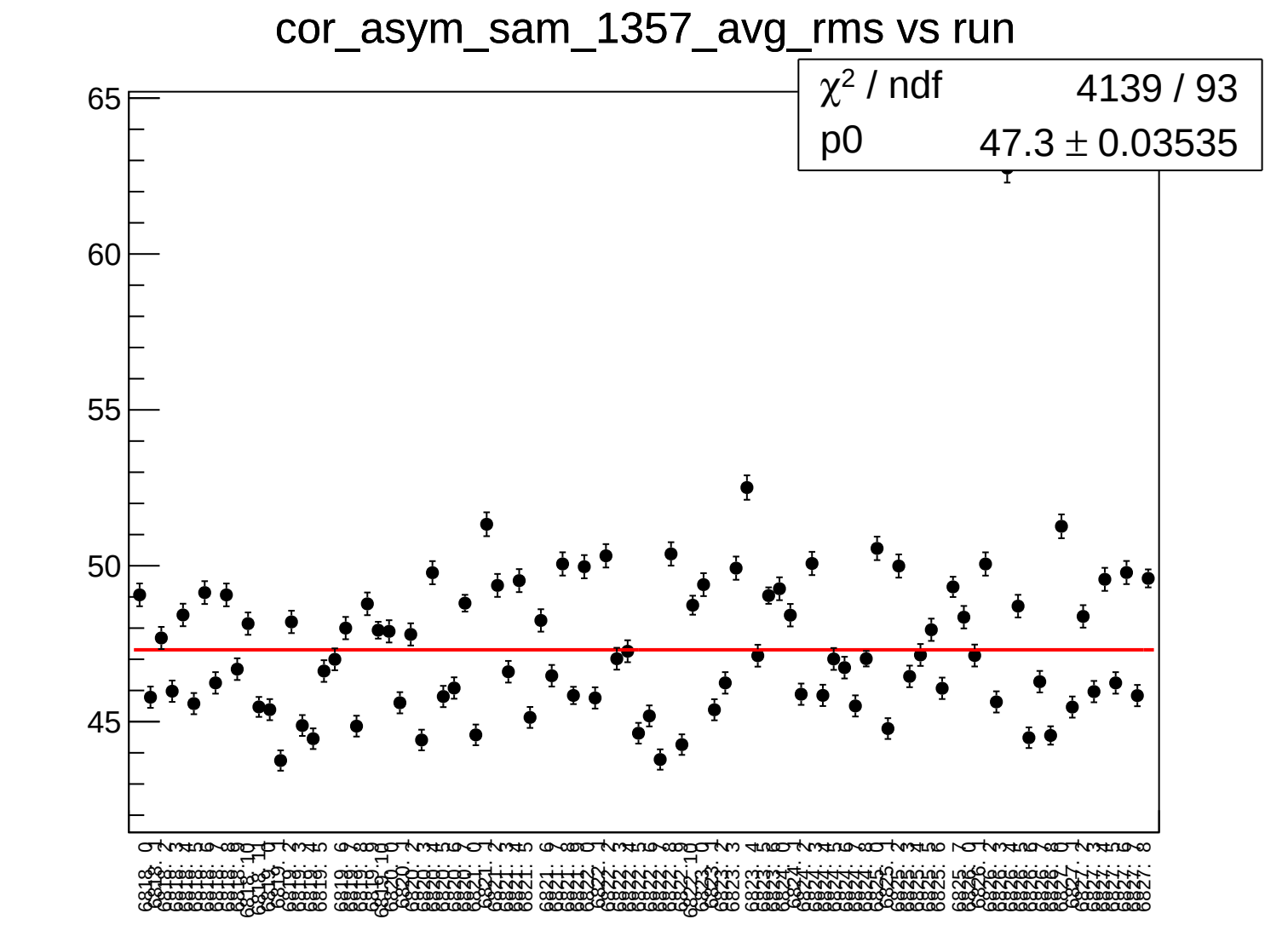

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 75.72 / 93
p0 −221.4 ± 402.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −137.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

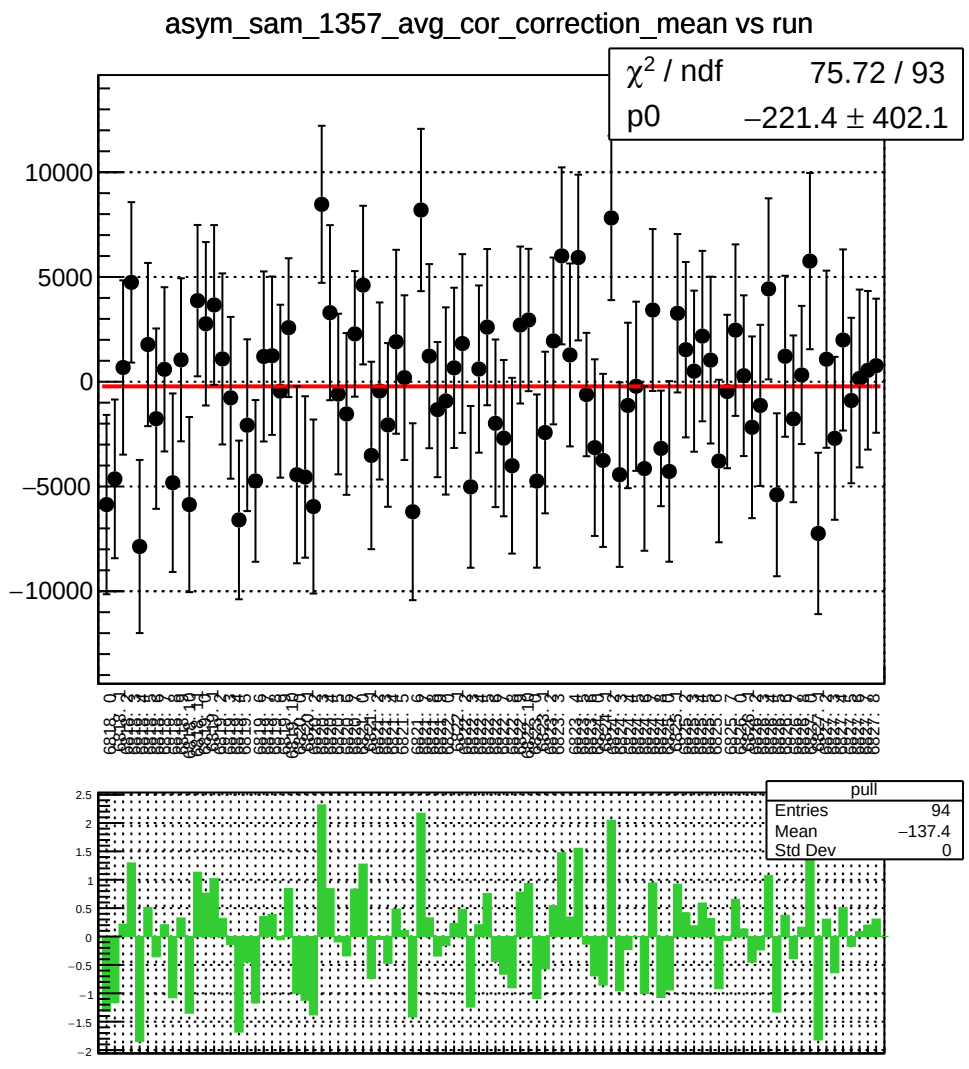

pull1D
Entries 94
Mean −0.008824
Std Dev 0.8975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

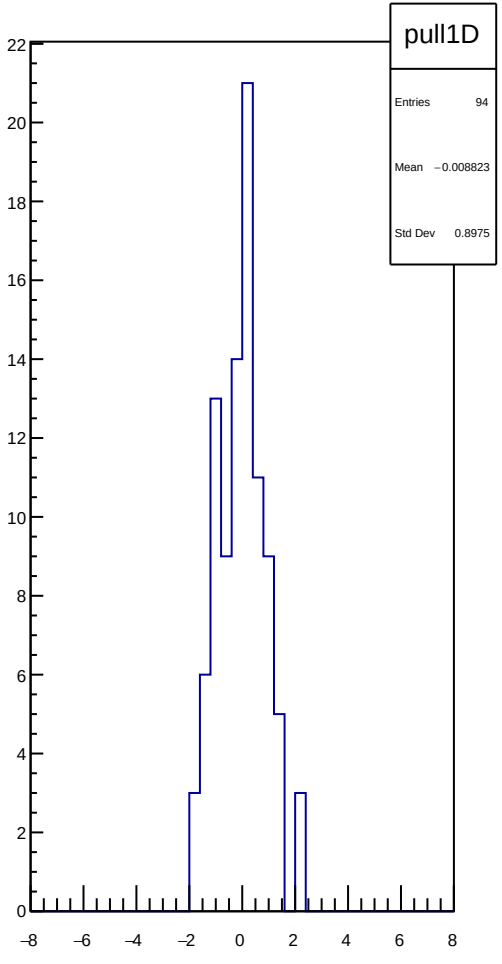

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 4203 / 93
p0 380.5 ± 0.2843
430
420
410
400
390
380
370
360
350

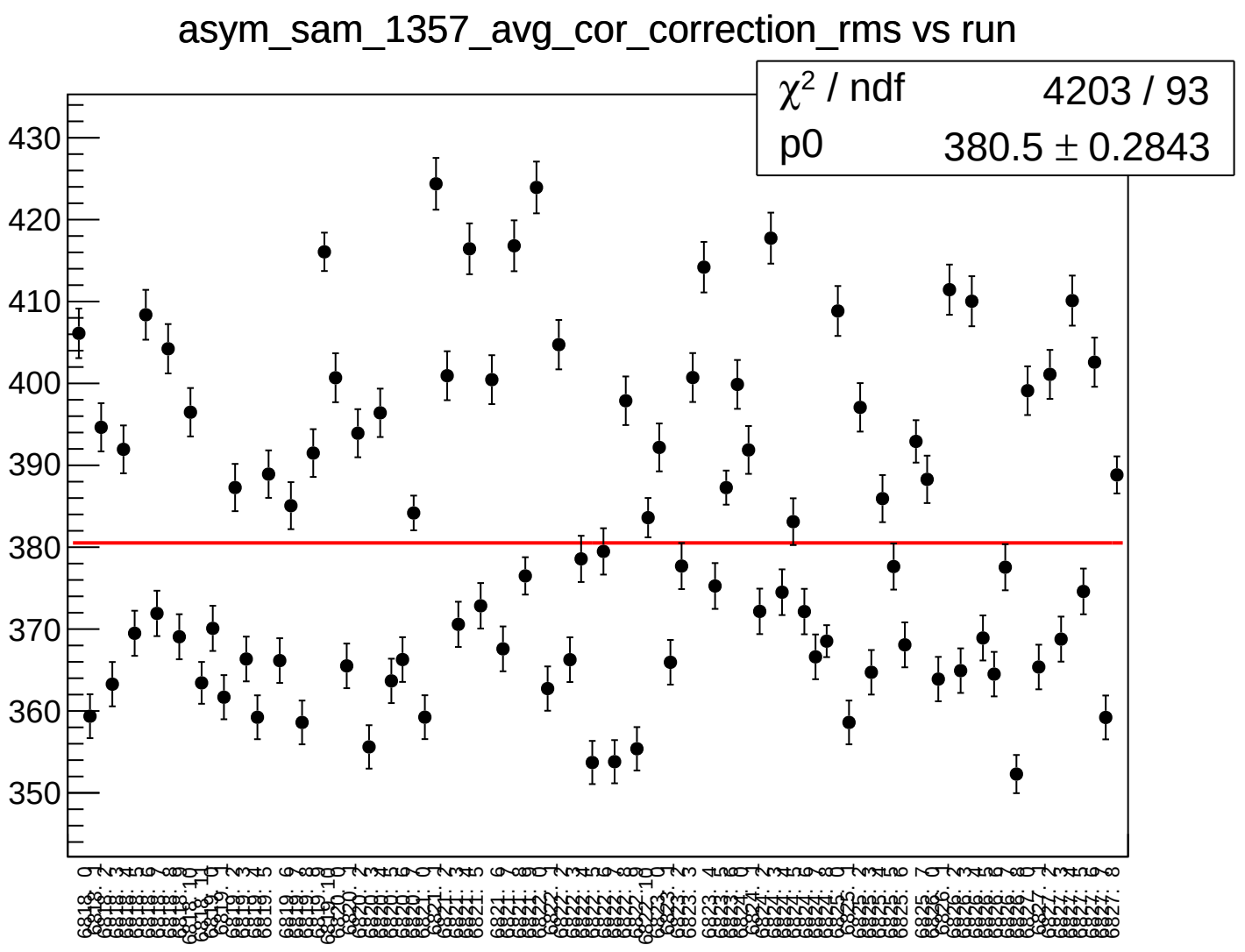

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 76.11 / 93
p0 −103.6 ± 49.99
1500
1000
500
0
−500
−1000
−1500
pull
Entries 94
Mean 537.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

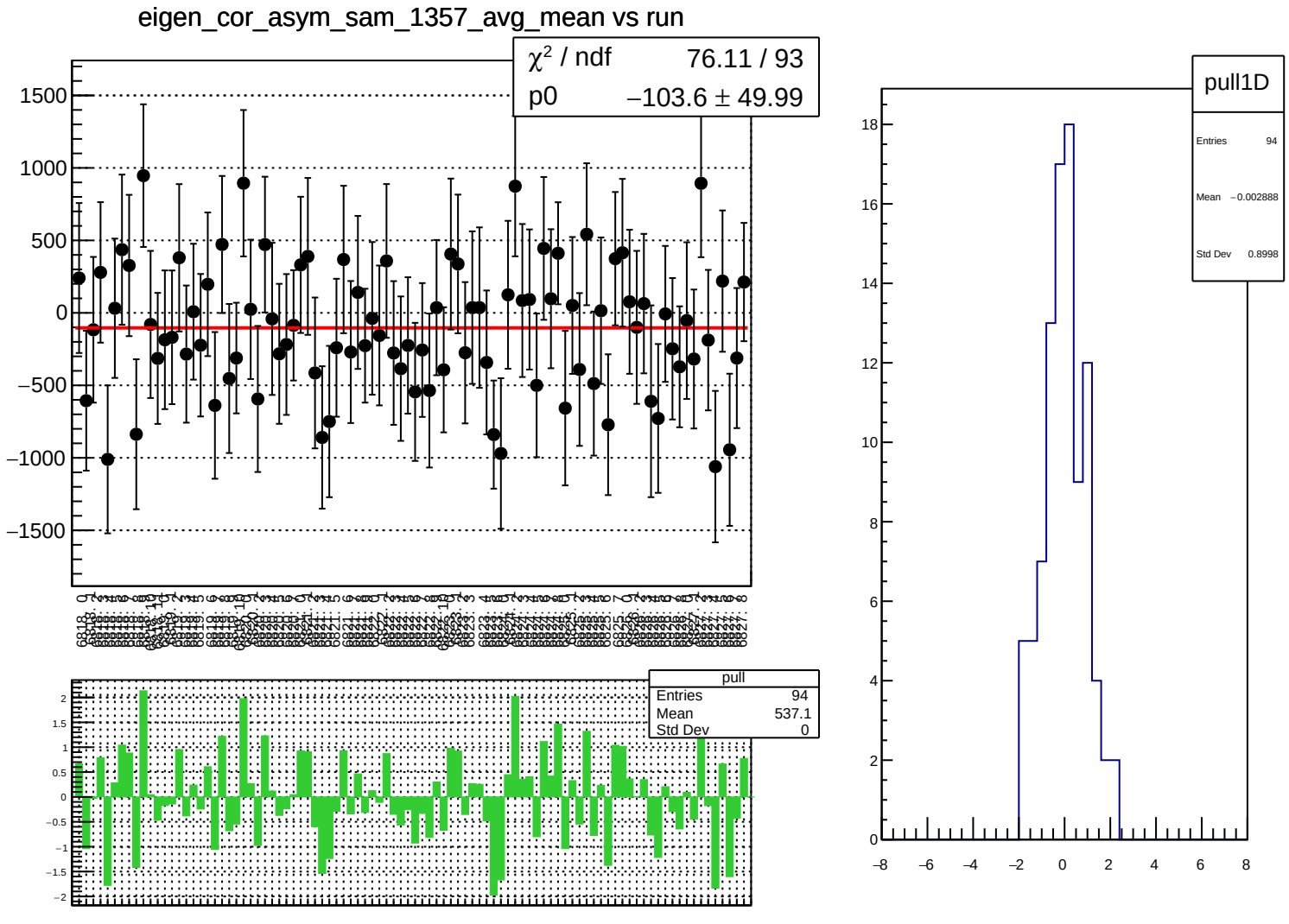

pull1D
Entries 94
Mean −0.002888
Std Dev 0.8998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

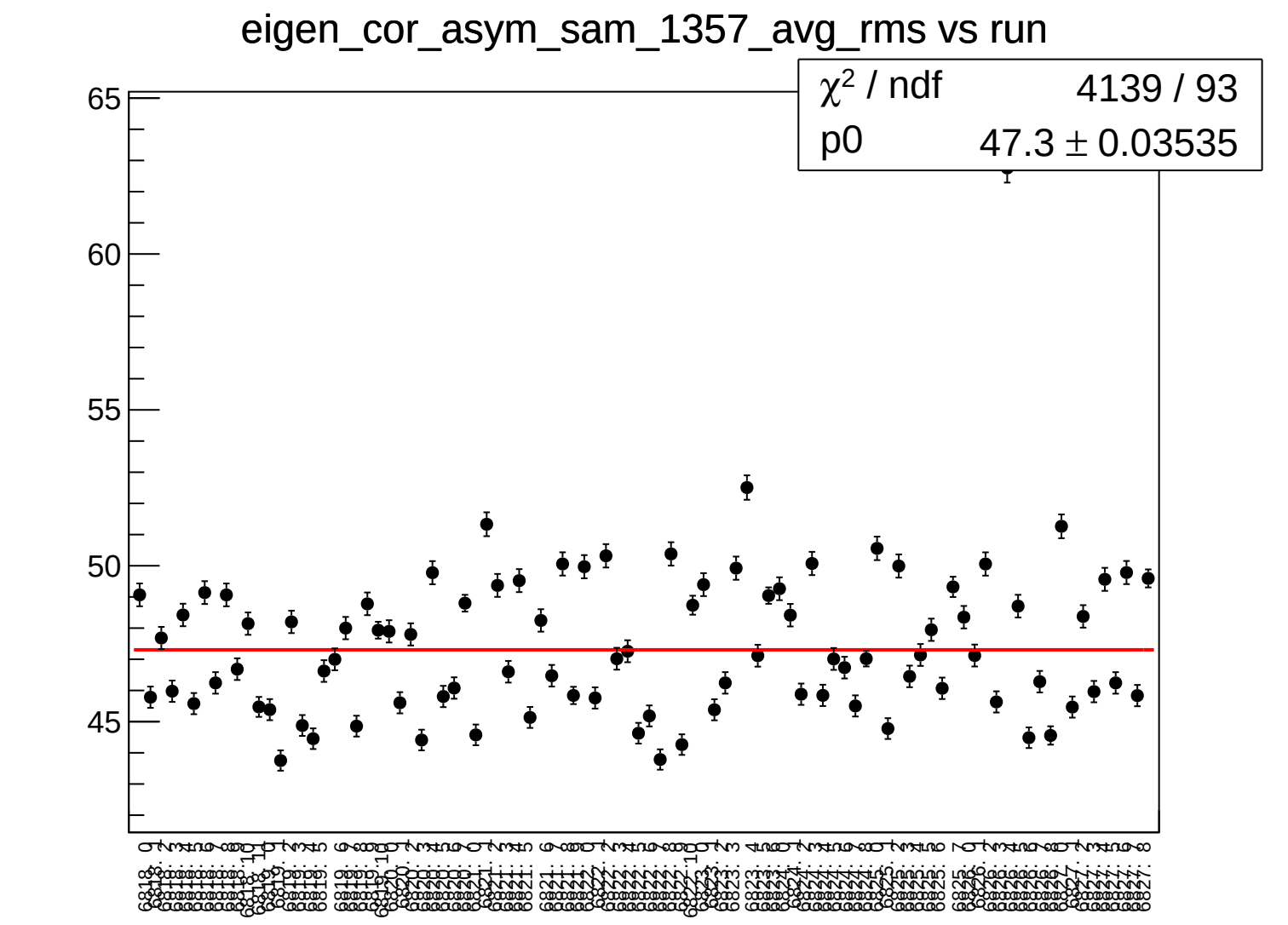

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4139 / 93
p0 47.3 ± 0.03535
65
60
55
50
45

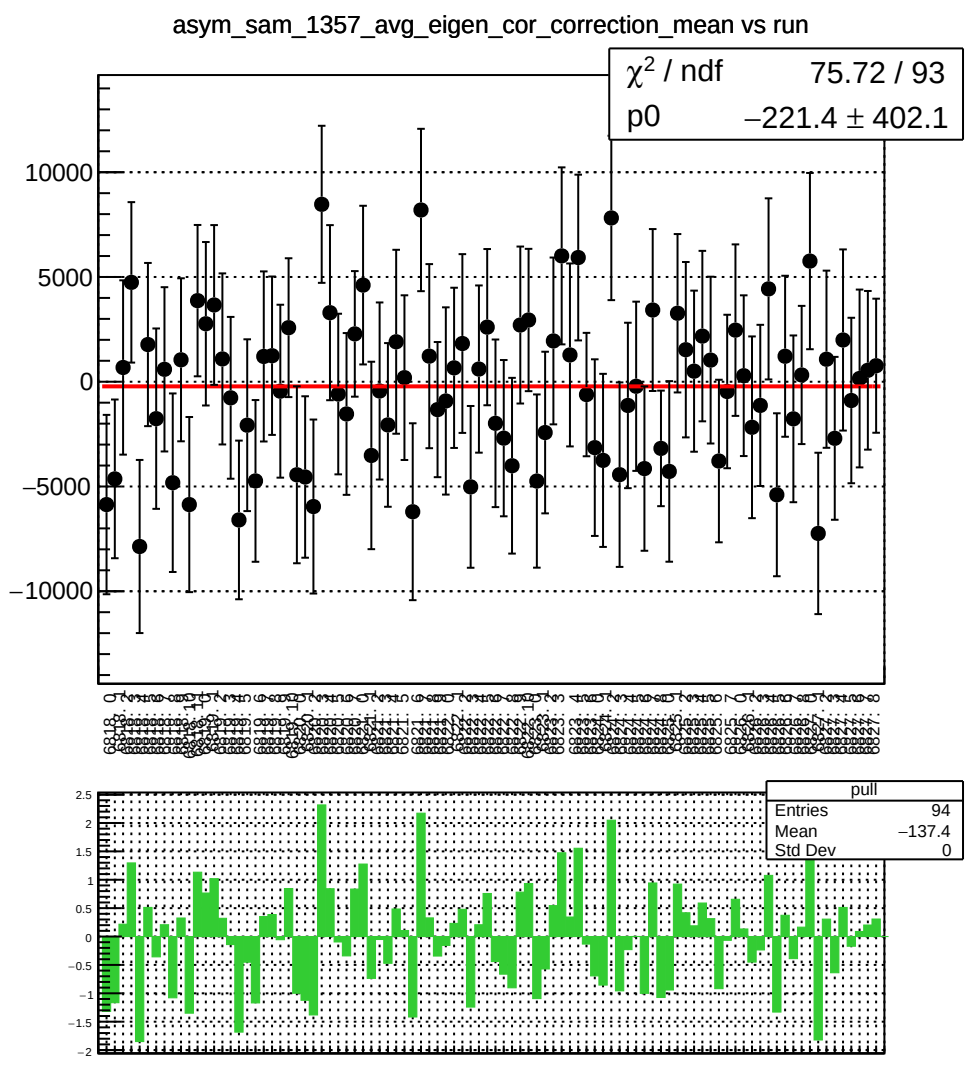

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 75.72 / 93
p0 −221.4 ± 402.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −137.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

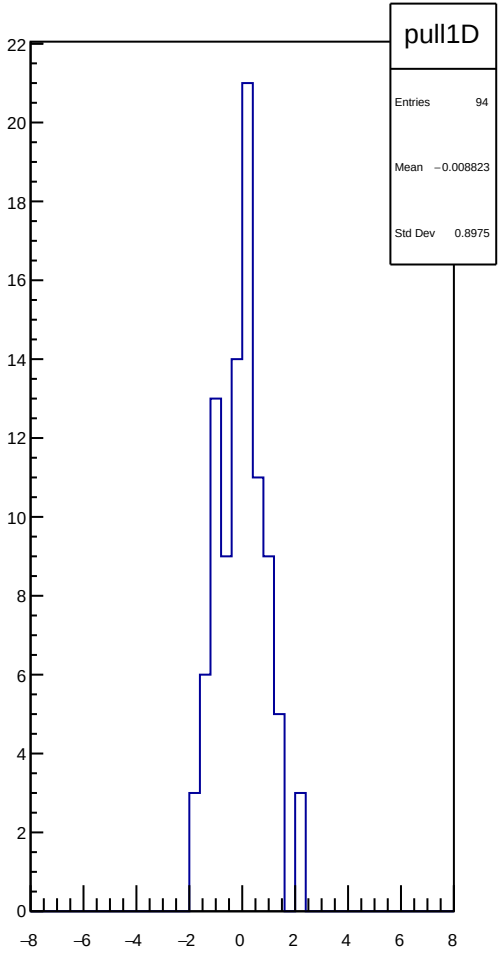

pull1D
Entries 94
Mean −0.008823
Std Dev 0.8975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

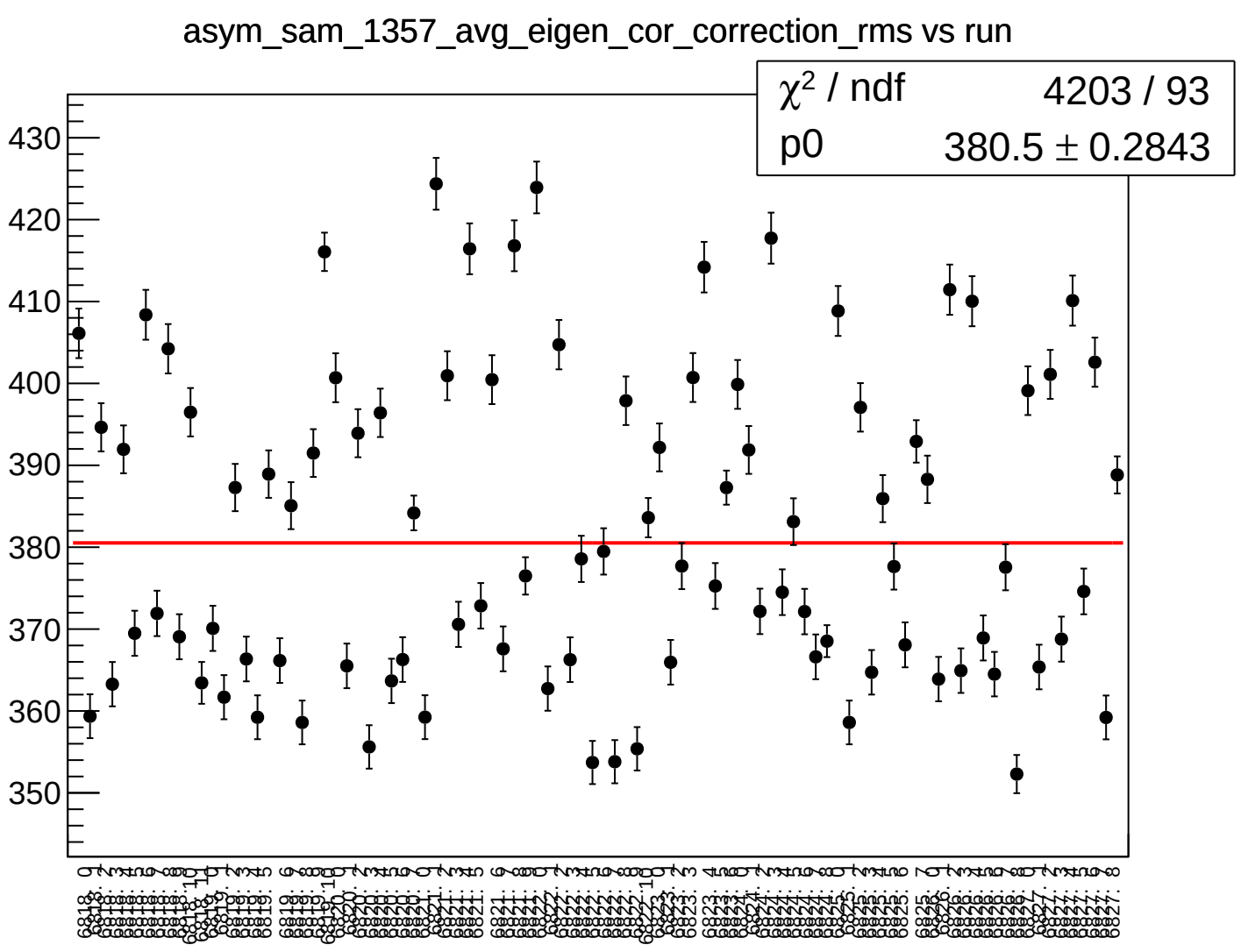

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 4203 / 93
p0 380.5 ± 0.2843
430
420
410
400
390
380
370
360
350

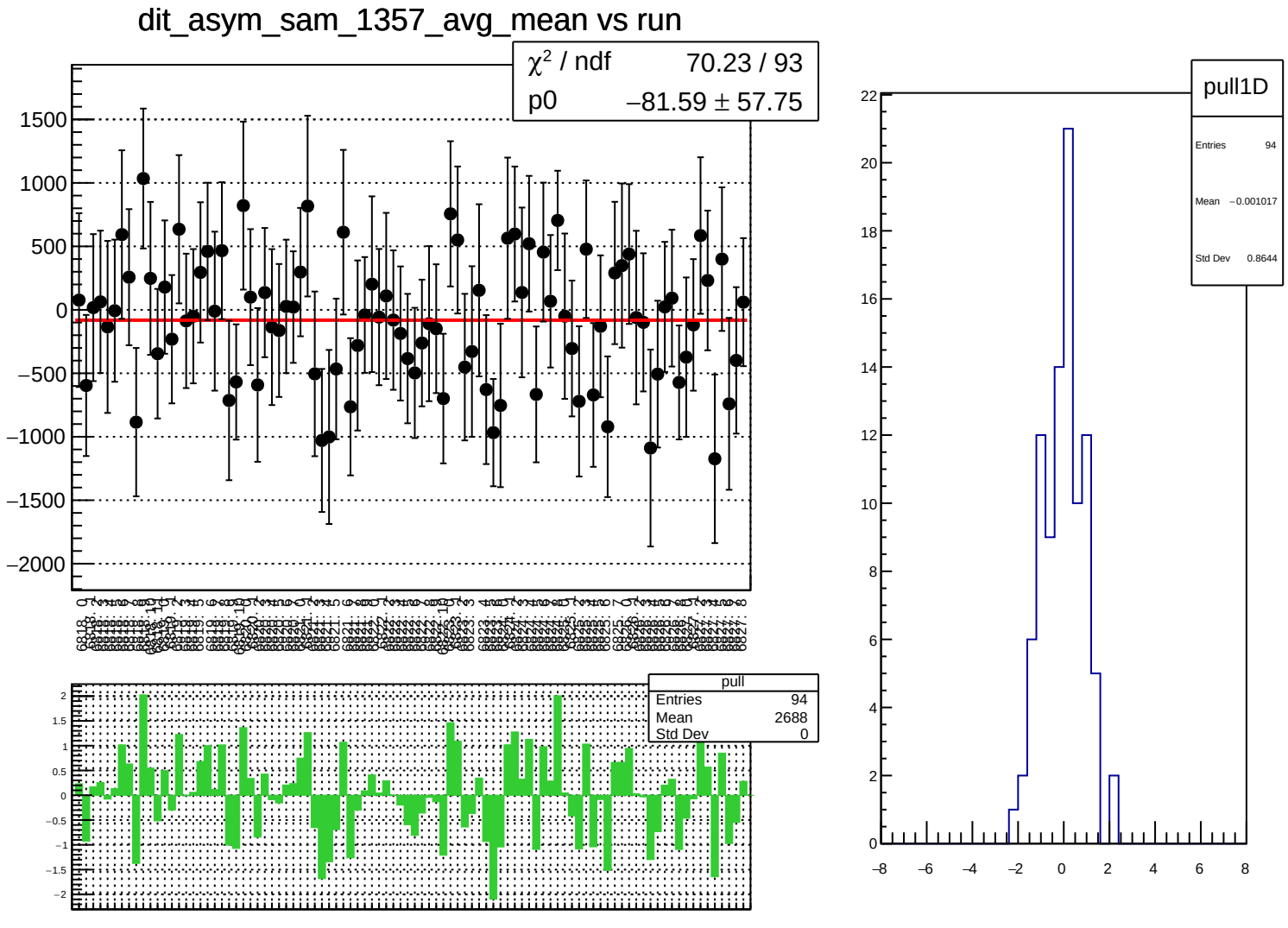

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 76.11 / 93
p0 −103.6 ± 49.99
pull
Entries 94
Mean 537.1
Std Dev 0
pull1D
Entries 94
Mean −0.002888
Std Dev 0.8998

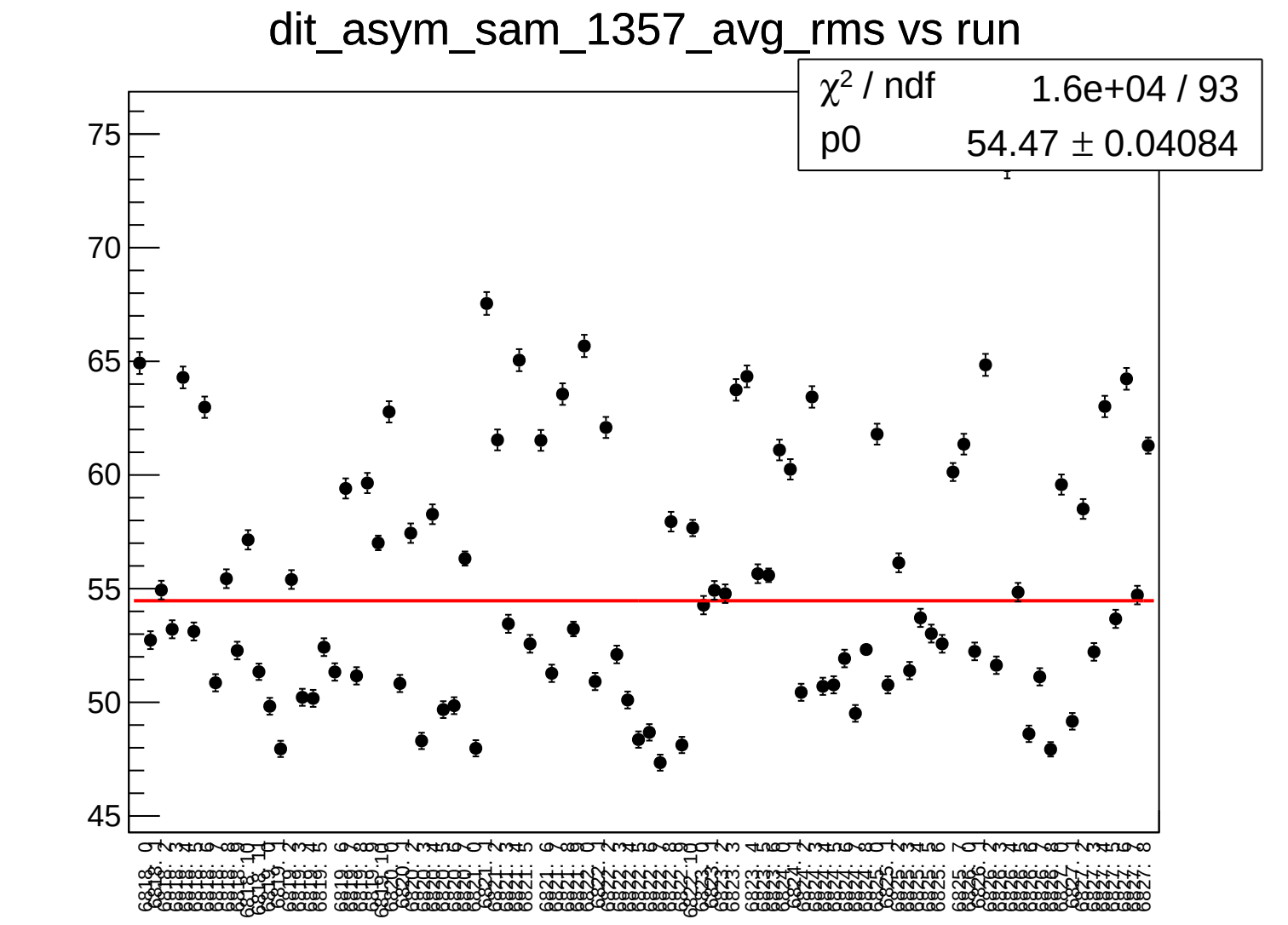

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 4139 / 93
p0 47.3 ± 0.03535
65
60
55
50
45

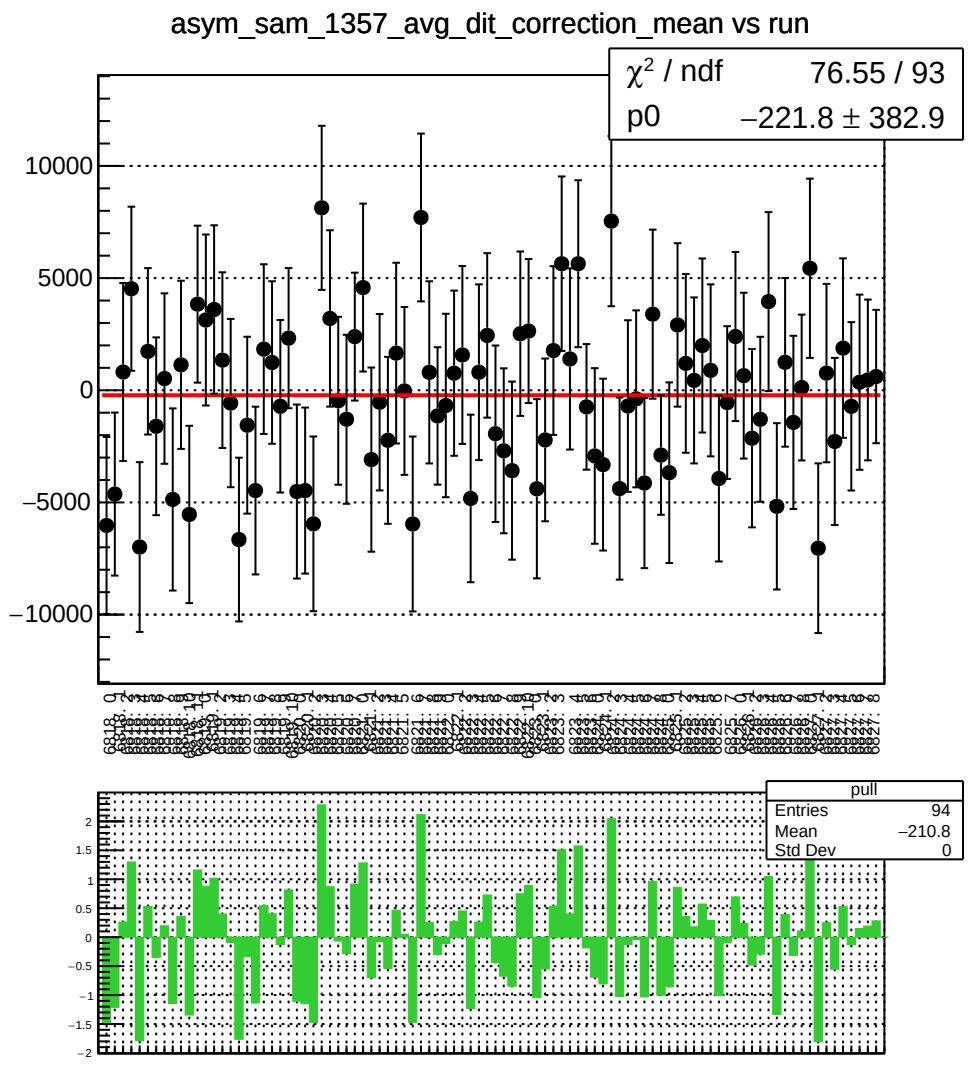

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 75.72 / 93
p0 −221.4 ± 402.1
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −137.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

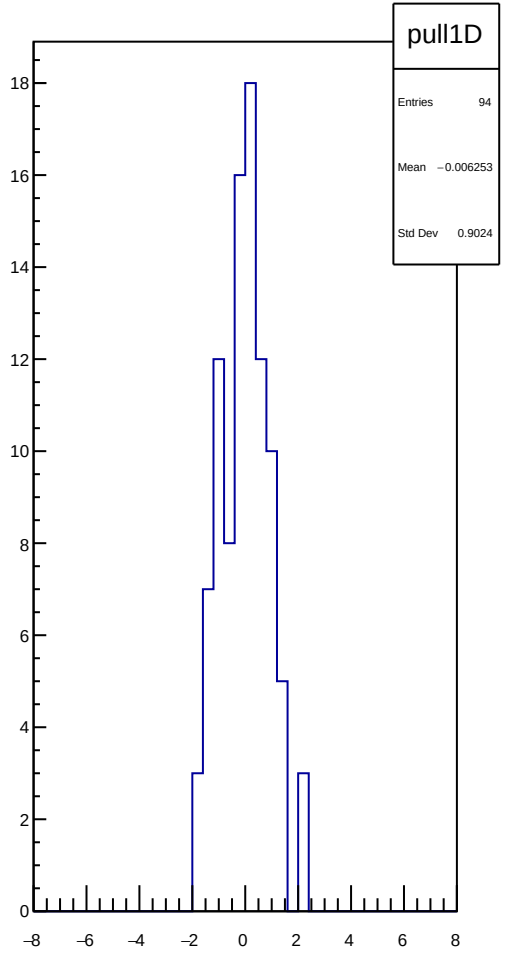

pull1D
Entries 94
Mean −0.008823
Std Dev 0.8975
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

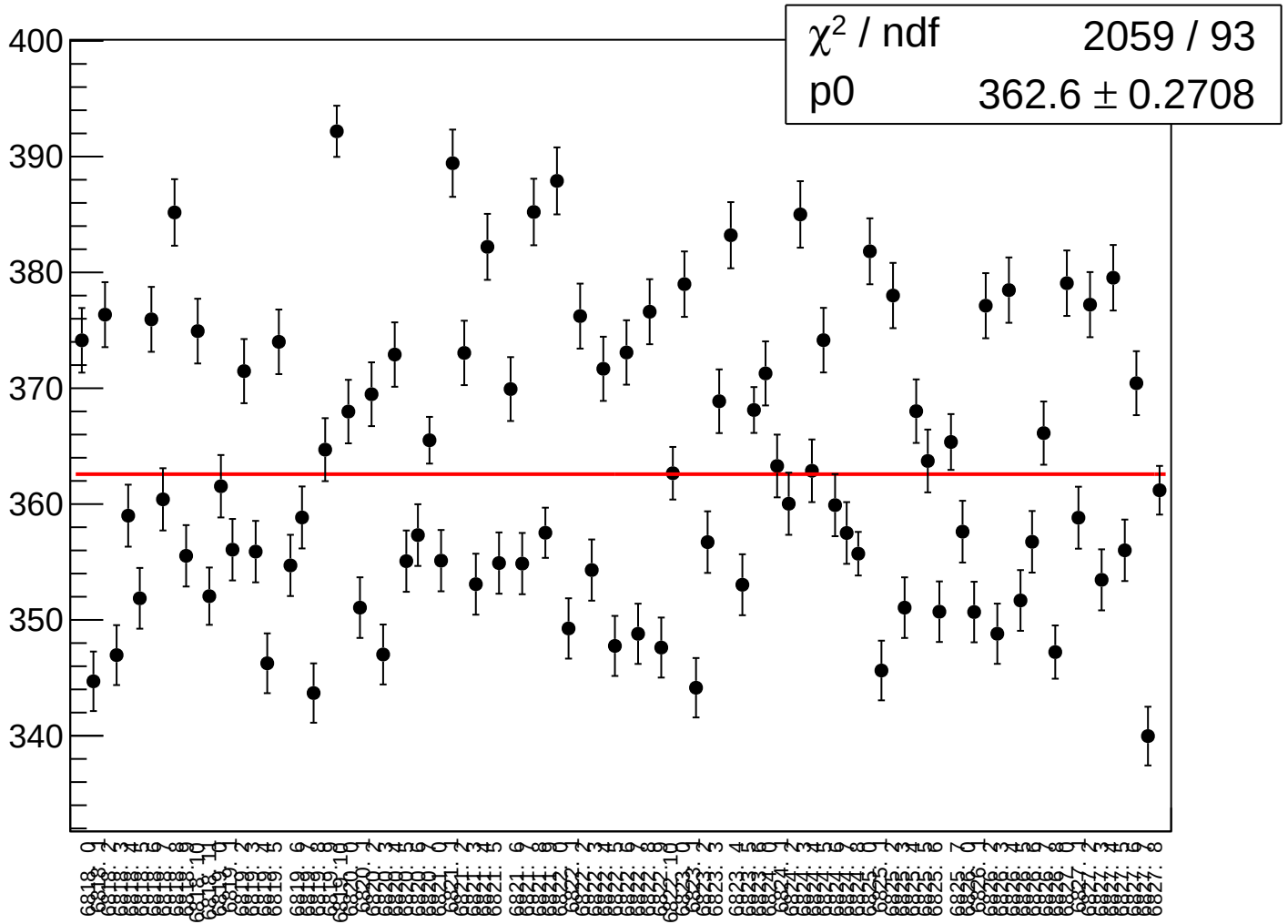

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 4203 / 93
p0 380.5 ± 0.2843
430
420
410
400
390
380
370
360
350

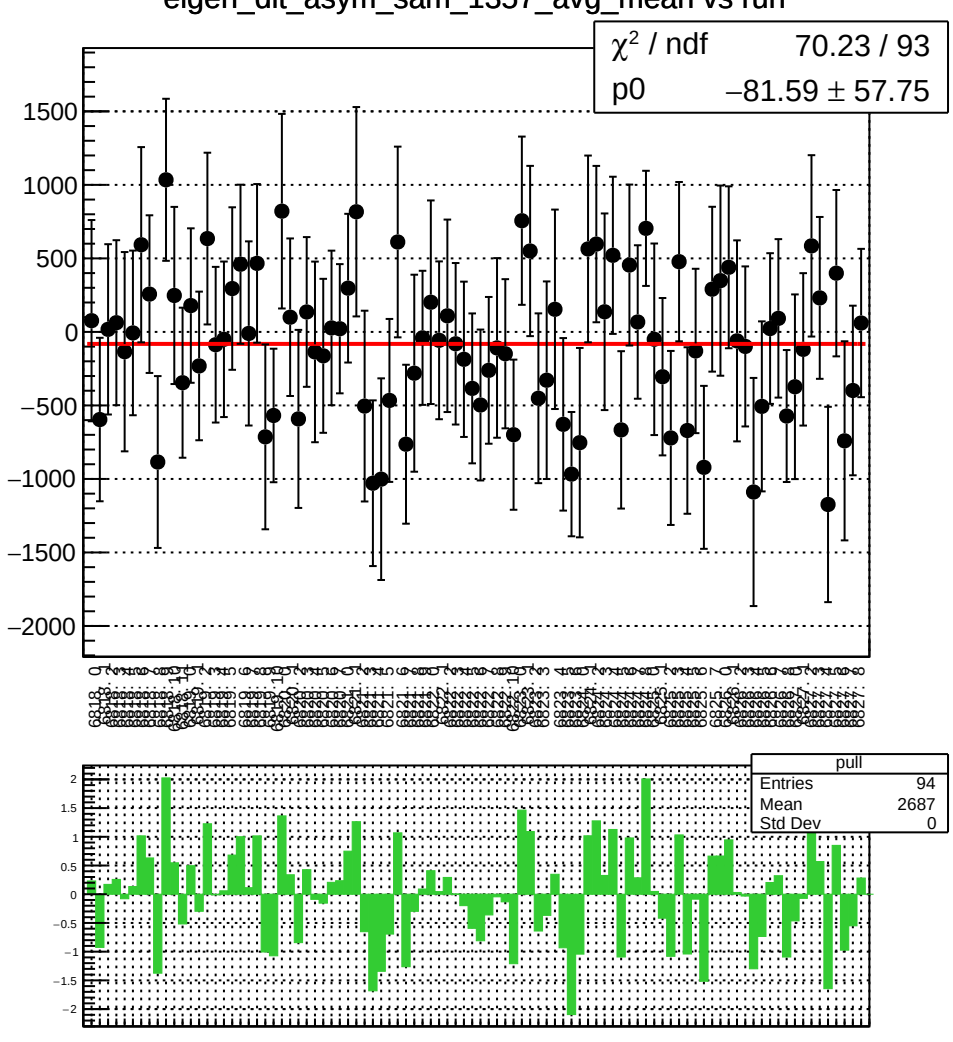

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 70.23 / 93
p0 −81.59 ± 57.75
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 94
Mean 2688
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.001017
Std Dev 0.8644
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

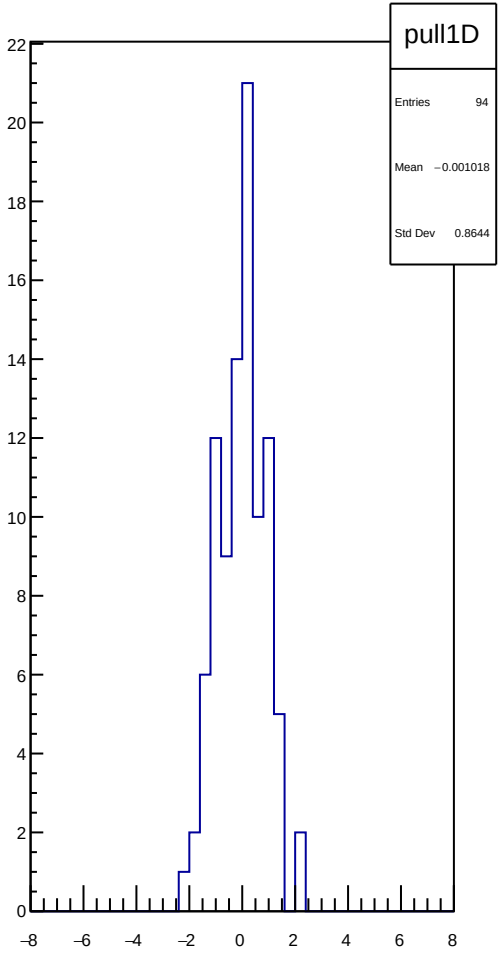

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.6e+04 / 93
p0 54.47 ± 0.04084
75
70
65
60
55
50
45

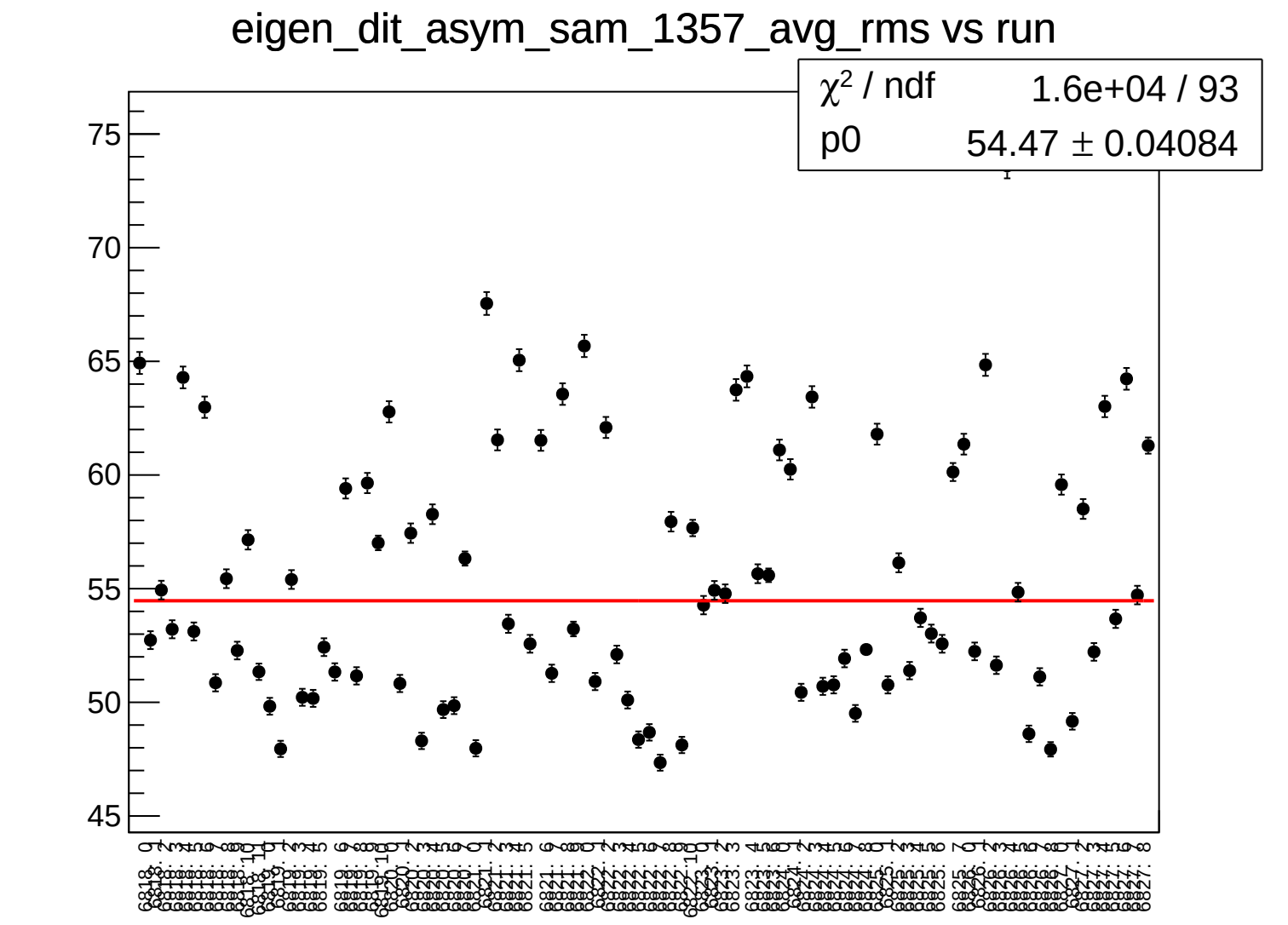

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 76.55 / 93
p0 −221.8 ± 382.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −210.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

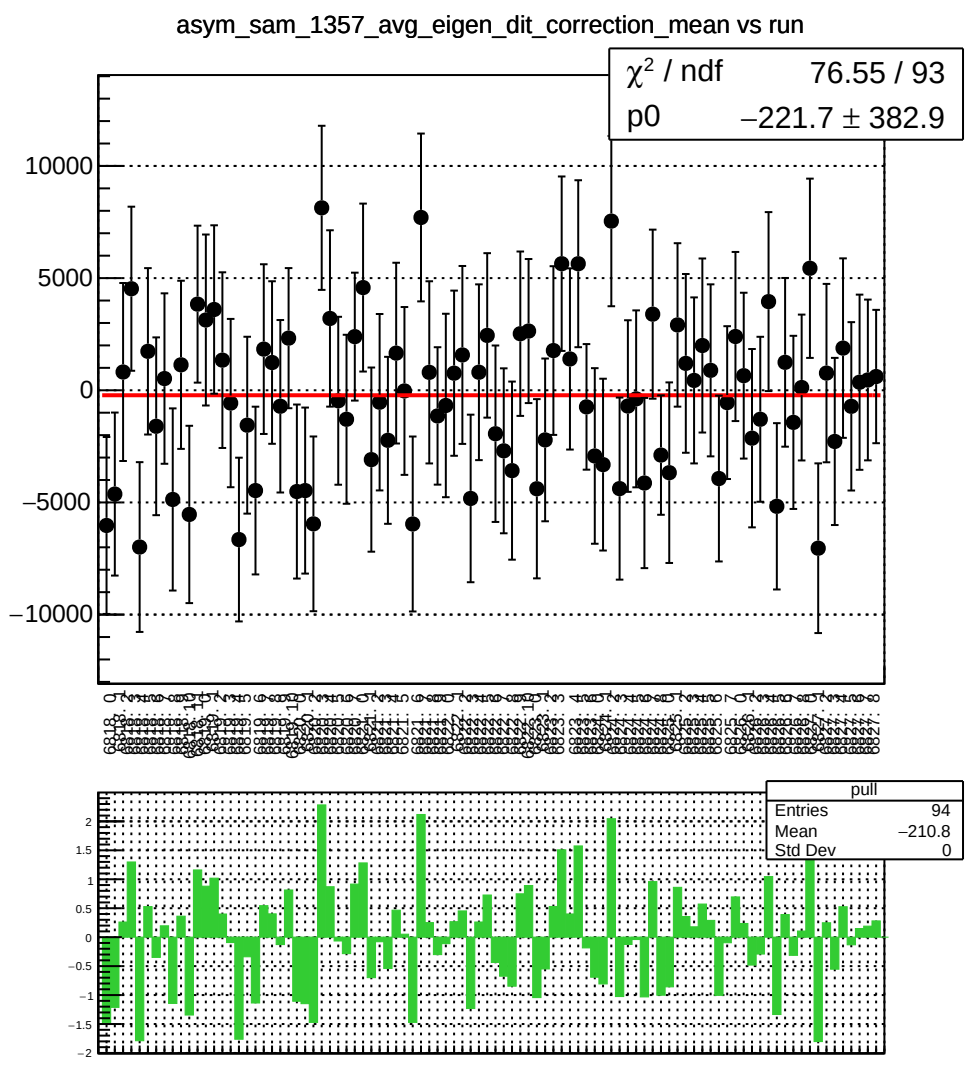

pull1D
Entries 94
Mean −0.006253
Std Dev 0.9024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

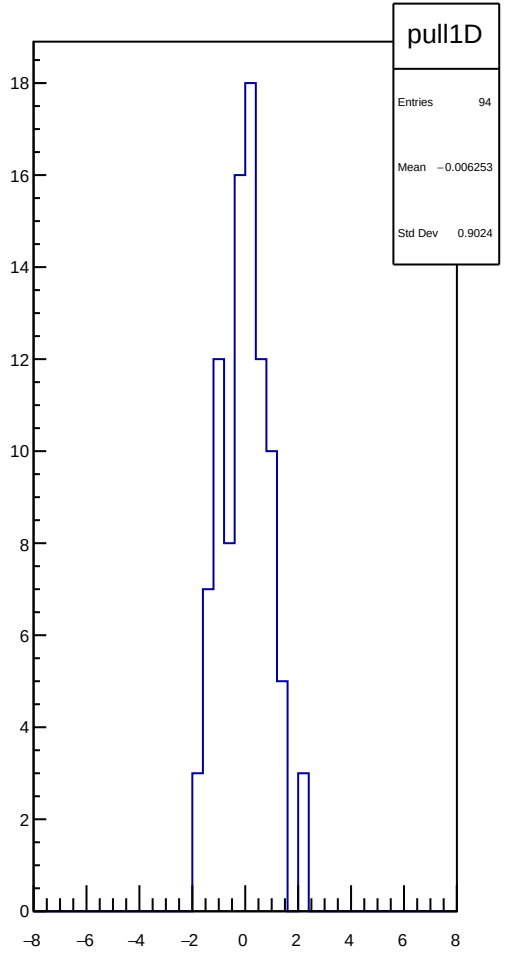

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2059 / 93
p0 362.6 ± 0.2708
400
390
380
370
360
350
340

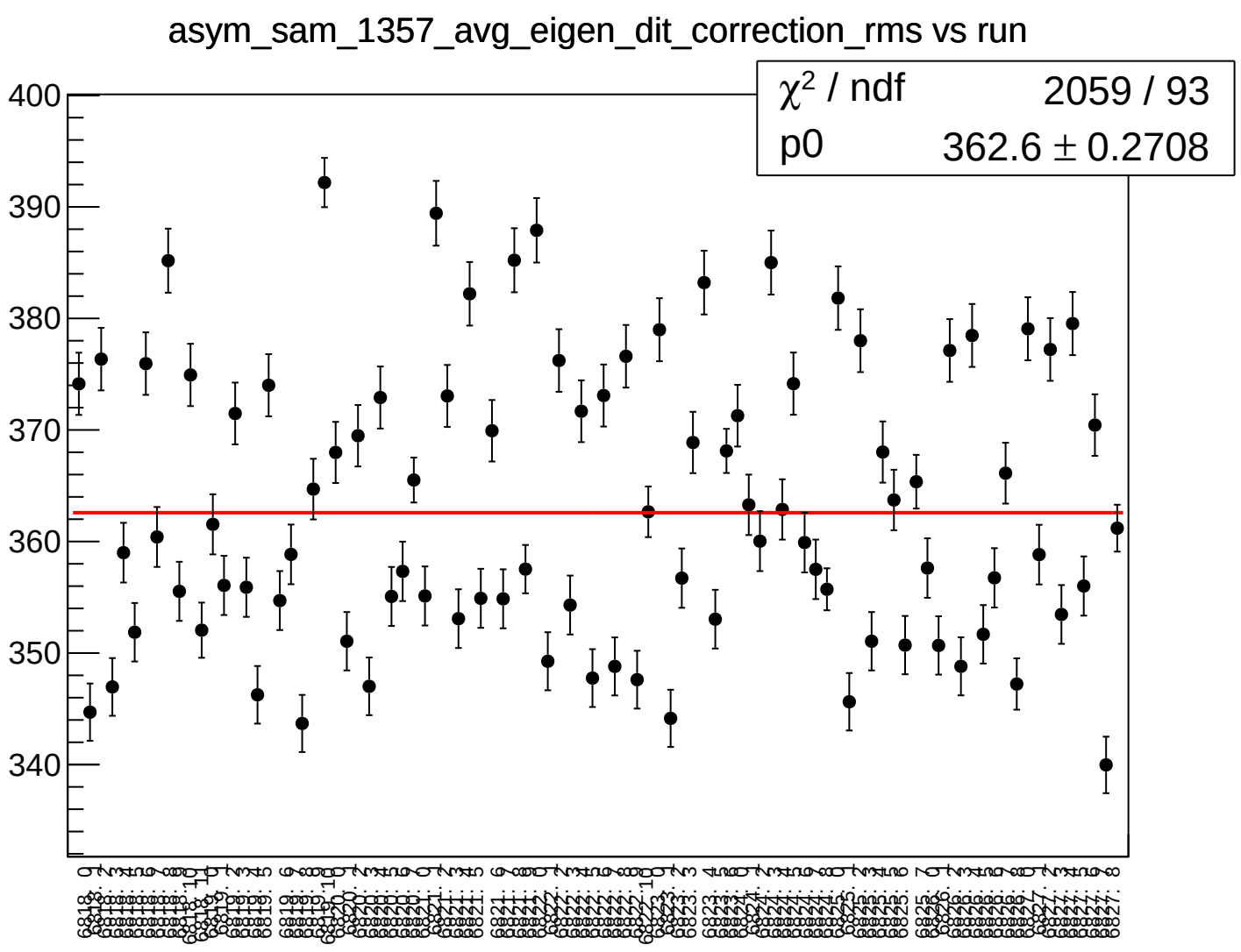

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 70.23 / 93
p0 −81.59 ± 57.75
pull
Entries 94
Mean 2687
Std Dev 0

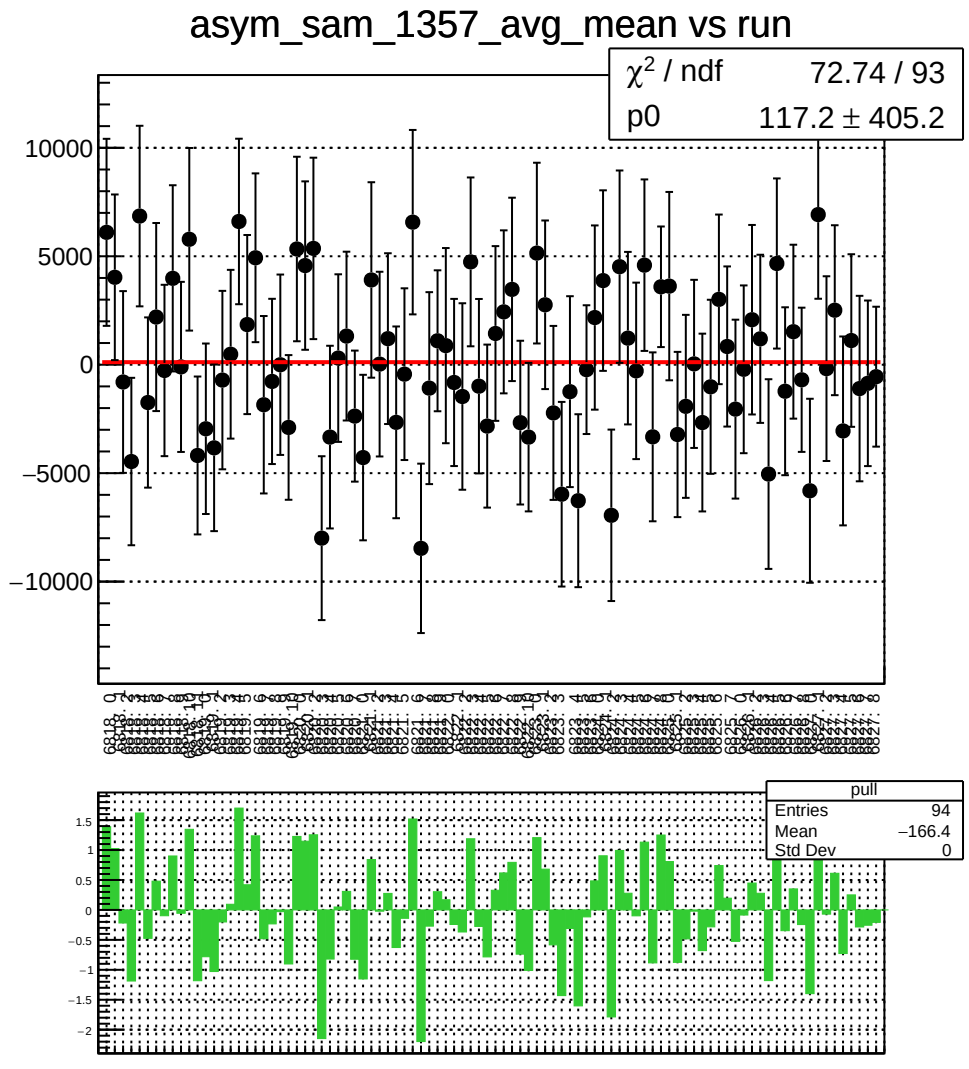

pull1D
Entries 94
Mean −0.001018
Std Dev 0.8644

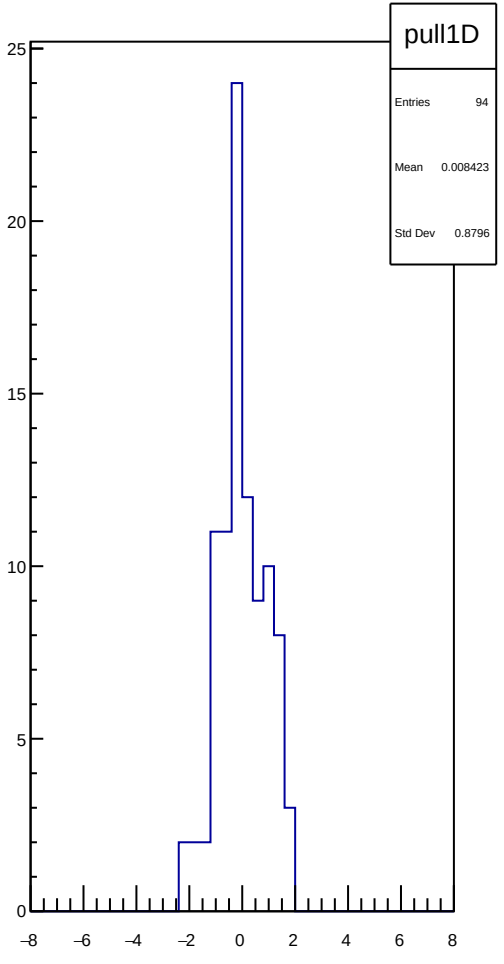

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 1.6e+04 / 93
p0 54.47 ± 0.04084
75
70
65
60
55
50
45

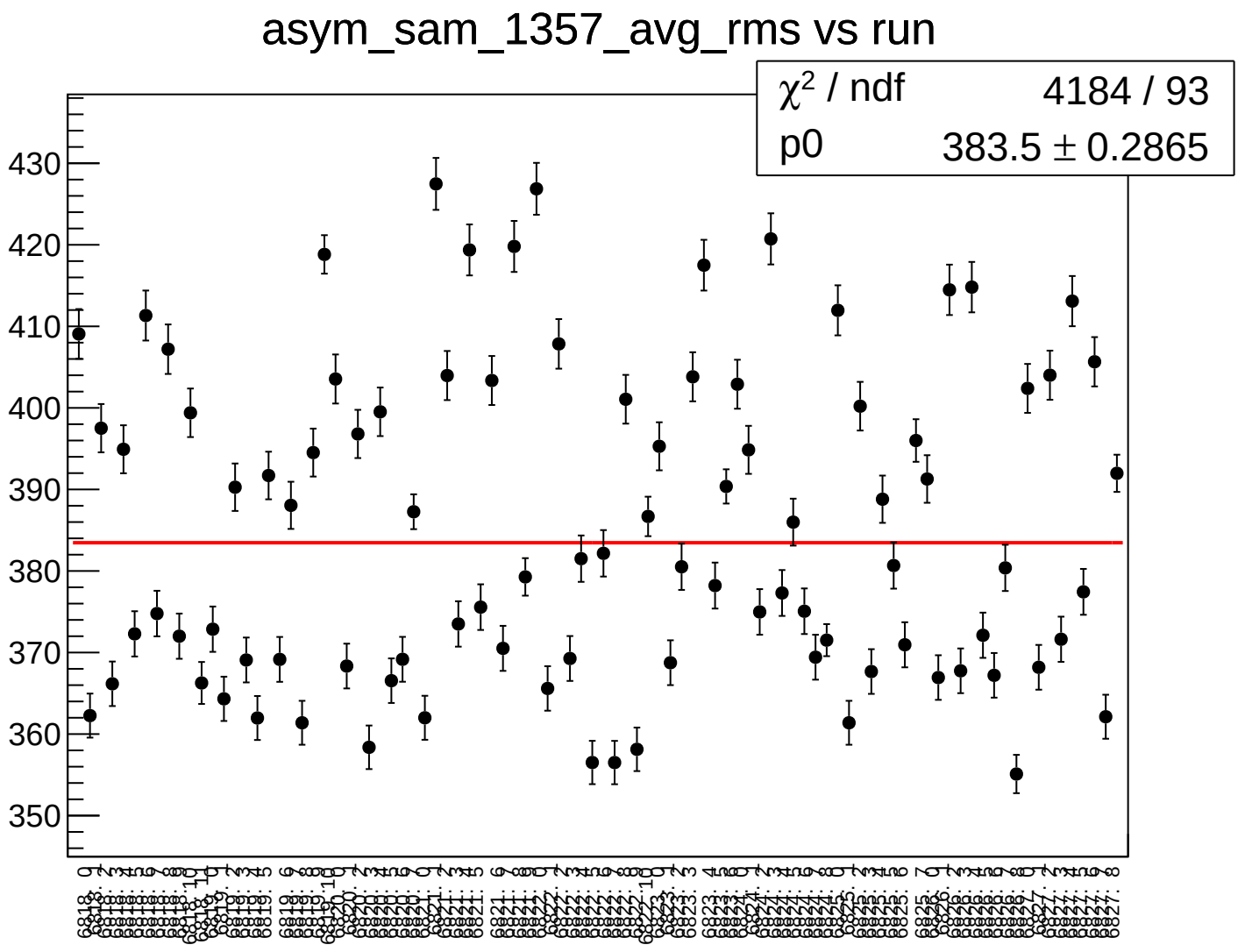

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.55 / 93
p0 −221.7 ± 382.9
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −210.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

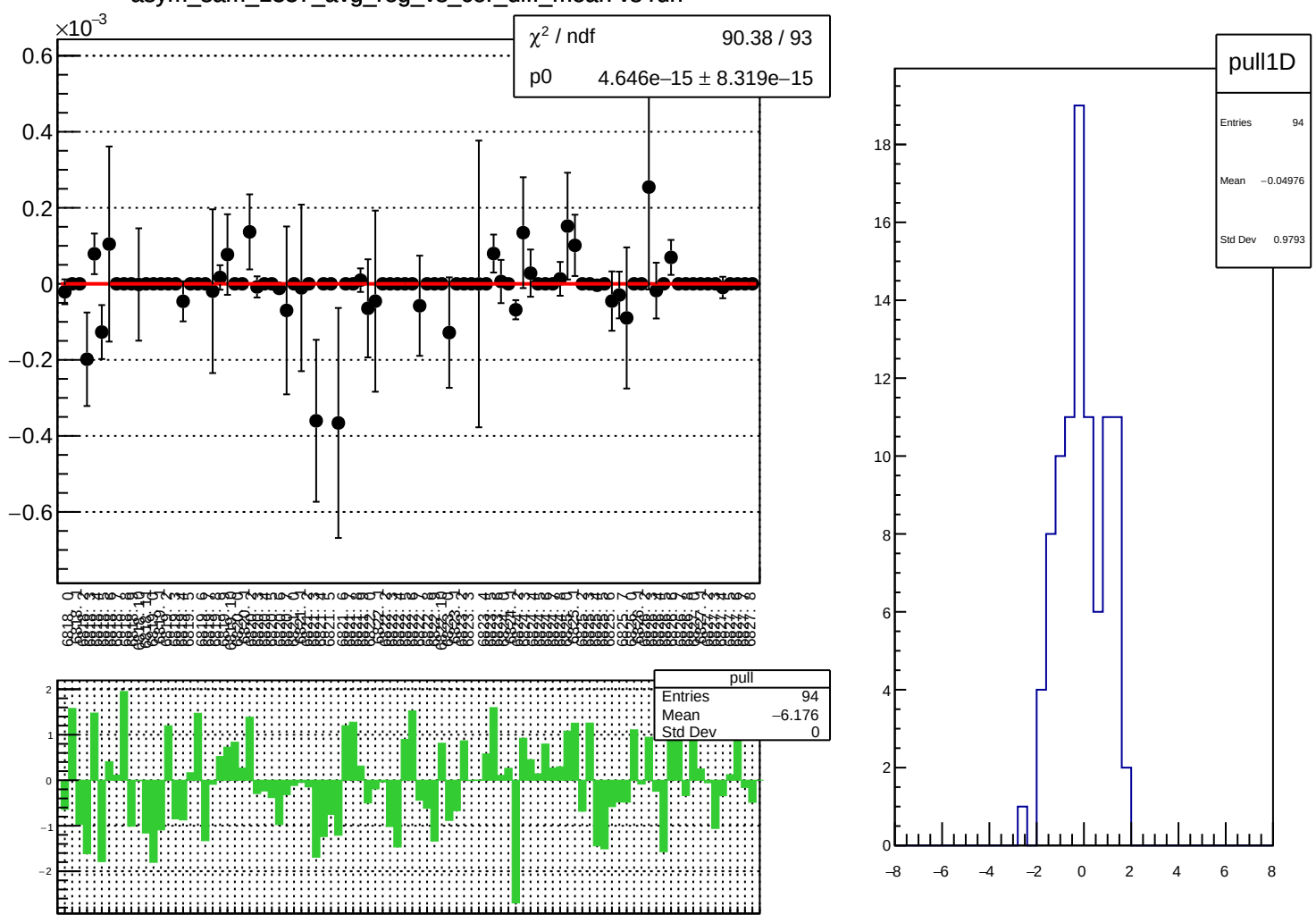

pull1D
Entries 94
Mean −0.006253
Std Dev 0.9024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

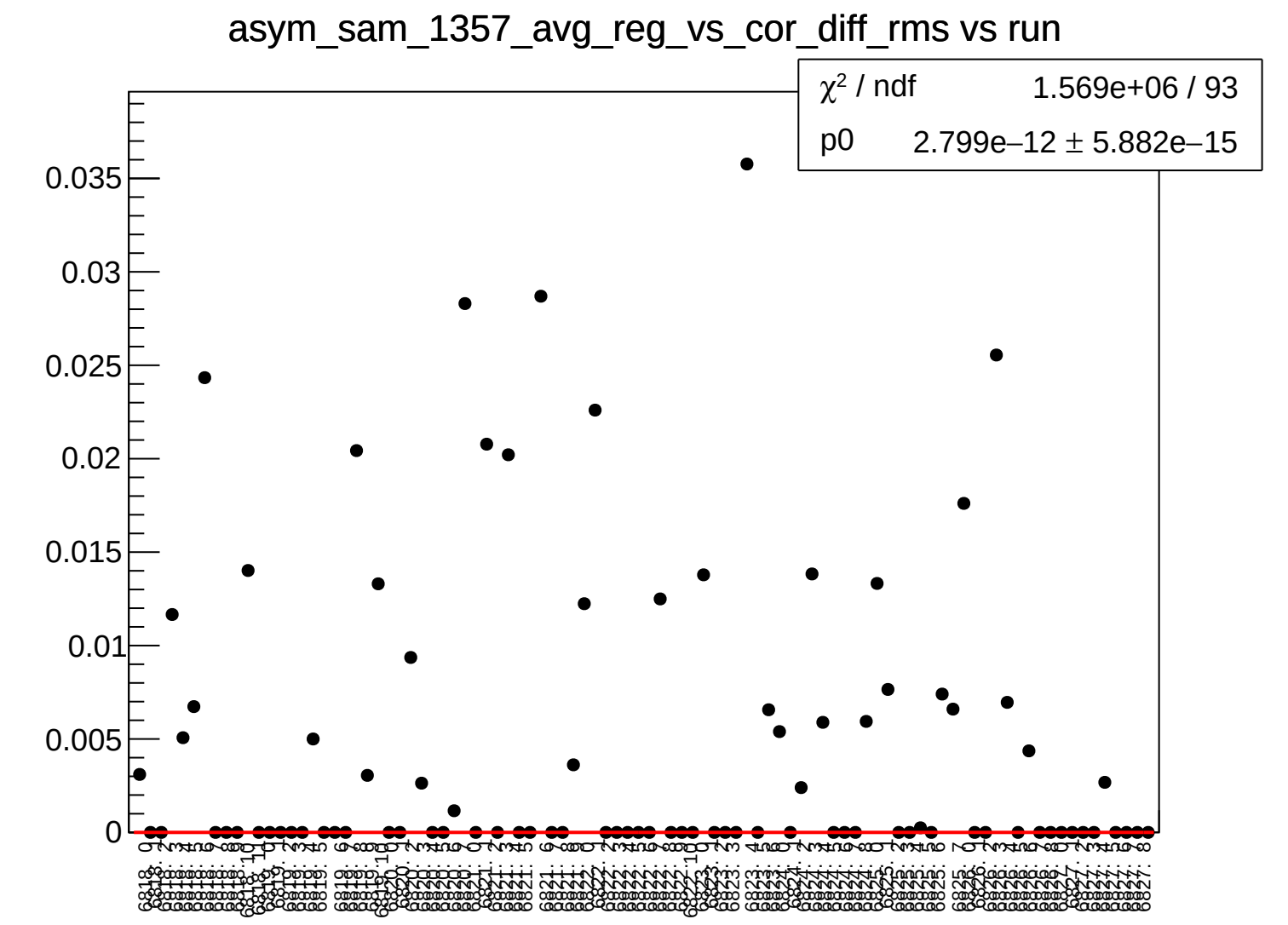

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2059 / 93
p0 362.6 ± 0.2708
400
390
380
370
360
350
340

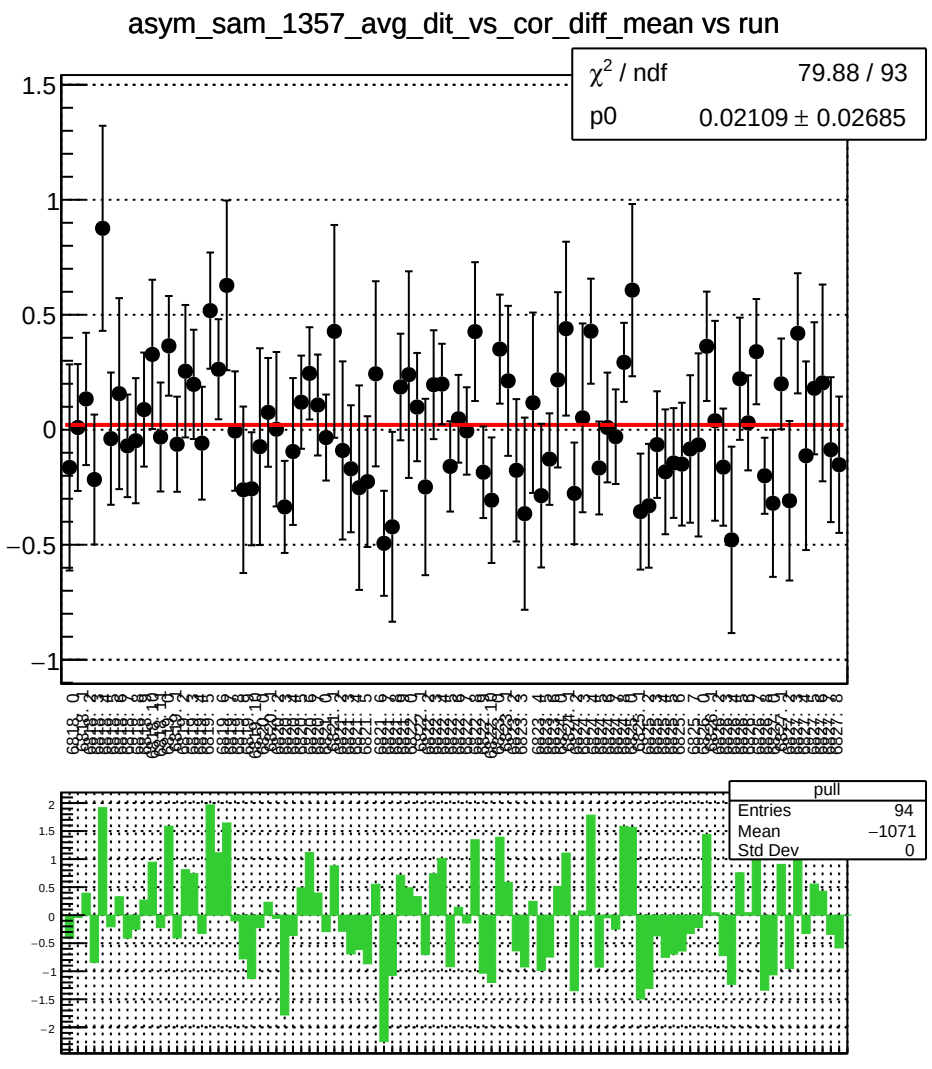

asym_sam_1357_avg_mean vs run
χ² / ndf 72.74 / 93
p0 117.2 ± 405.2
10000
5000
0
−5000
−10000
pull
Entries 94
Mean −166.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

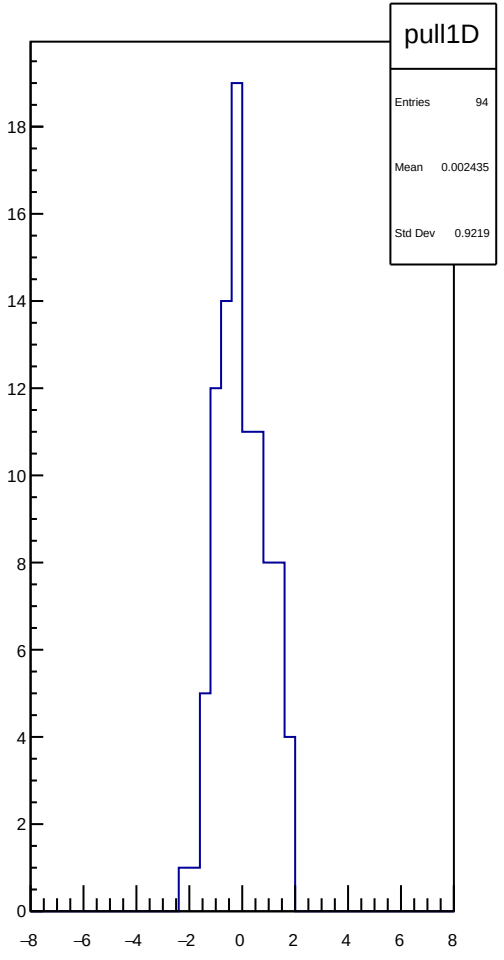

pull1D
Entries 94
Mean 0.008423
Std Dev 0.8796
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

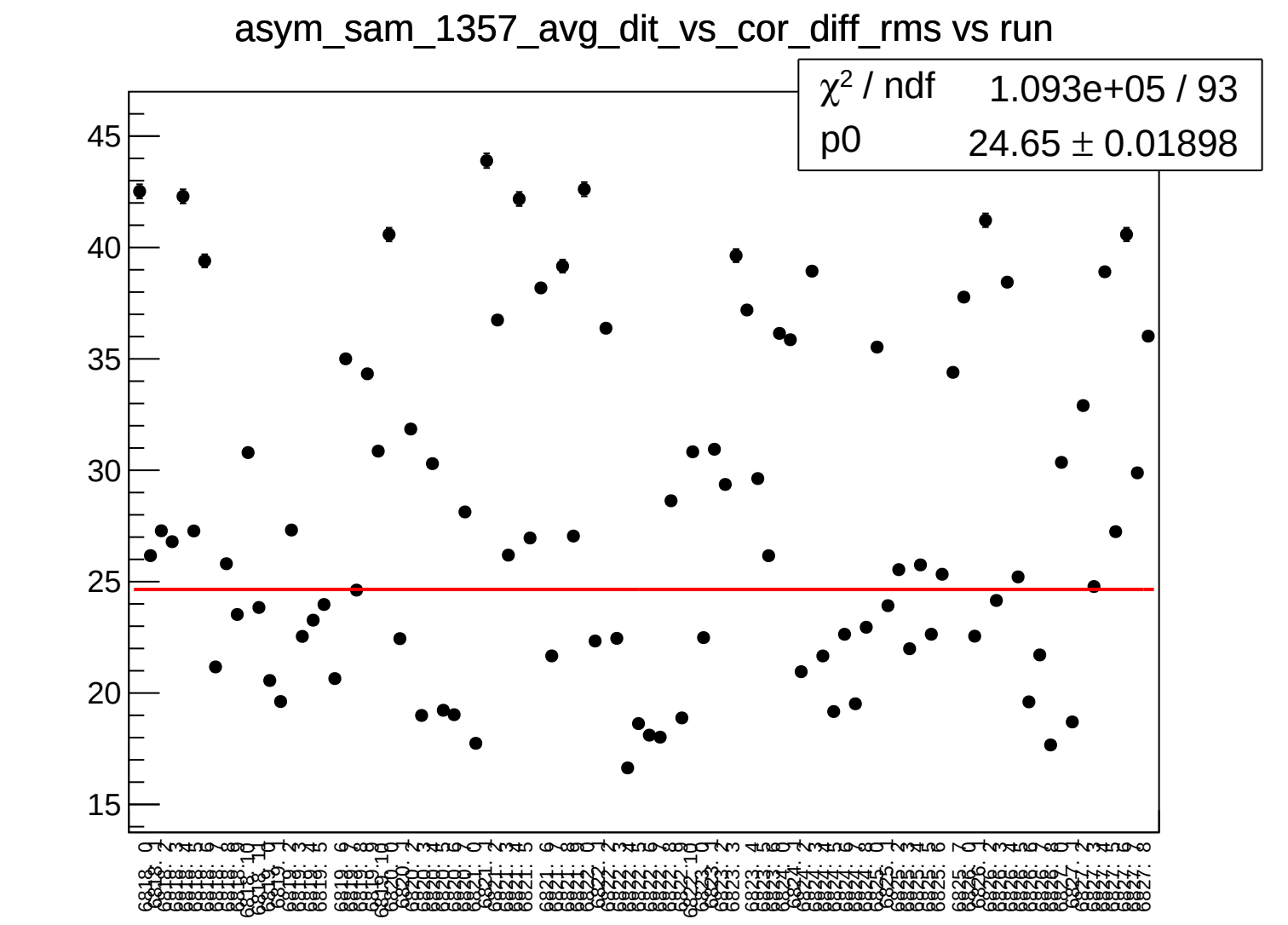

asym_sam_1357_avg_rms vs run
χ^2 / ndf 4184 / 93
p0 383.5 ± 0.2865
430
420
410
400
390
380
370
360
350

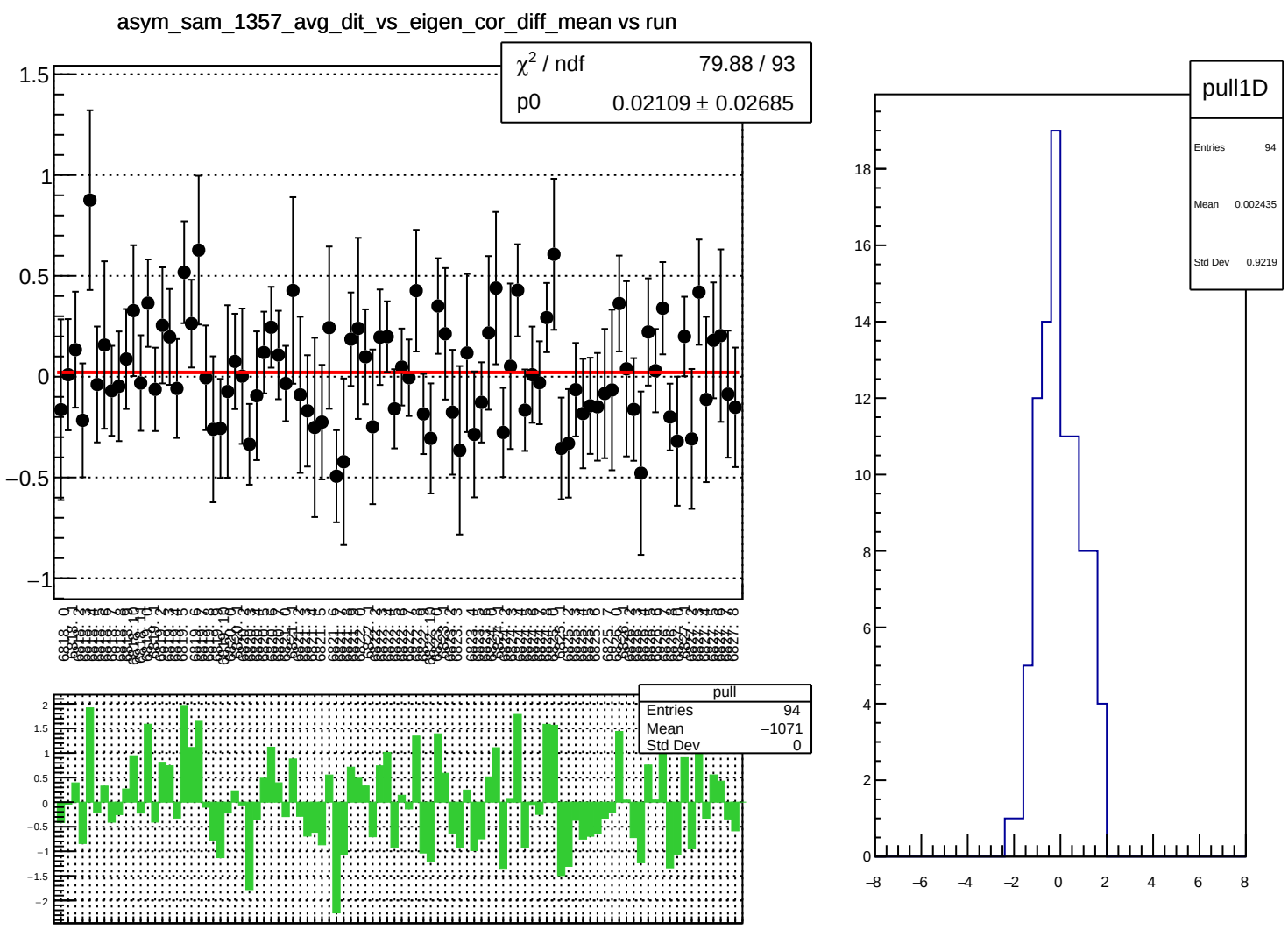

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.38 / 93
p0 4.646e−15 ± 8.319e−15
pull
Entries 94
Mean −6.176
Std Dev 0
pull1D
Entries 94
Mean −0.04976
Std Dev 0.9793

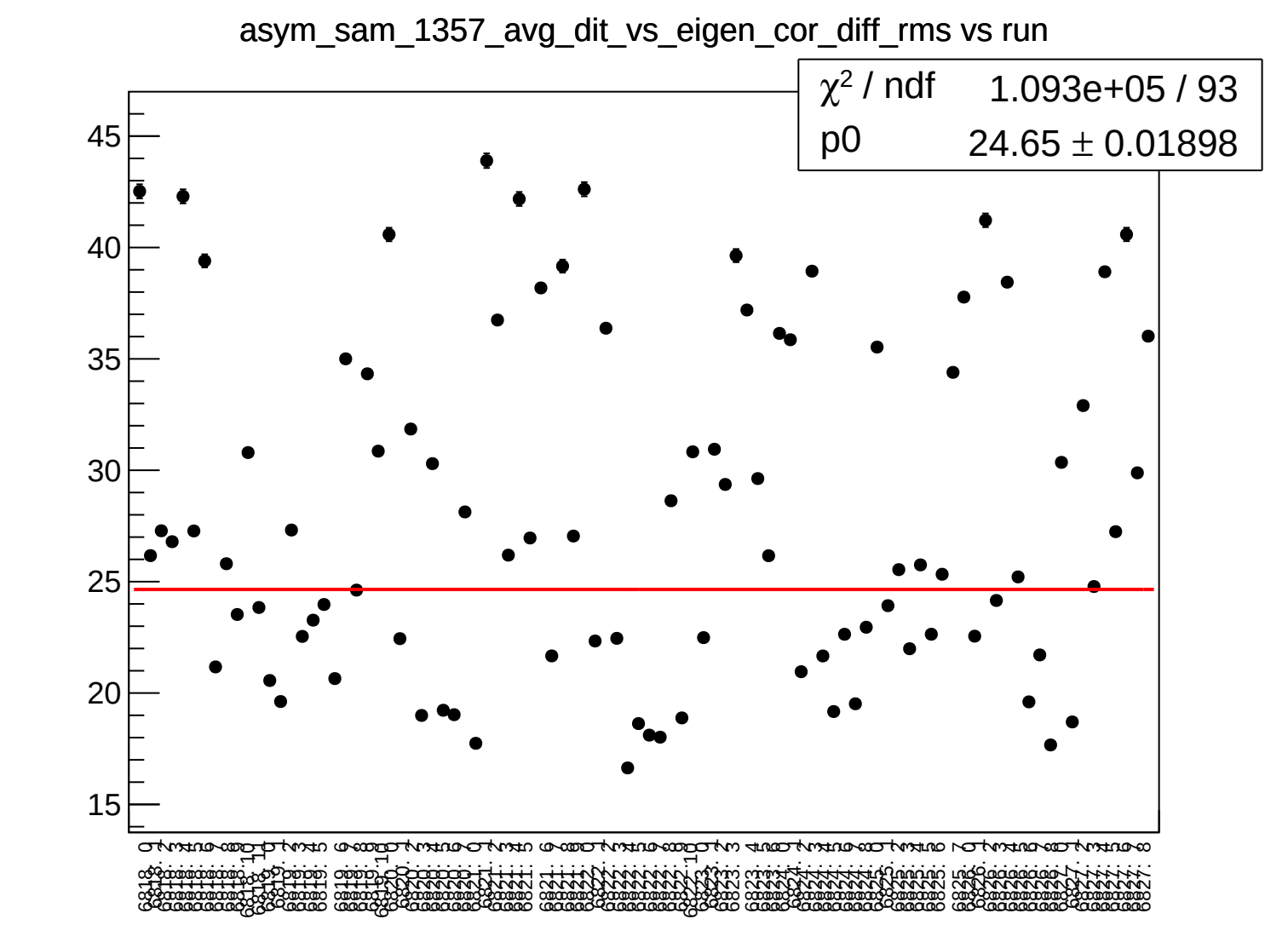

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.569e+06 / 93
p0 2.799e−12 ± 5.882e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

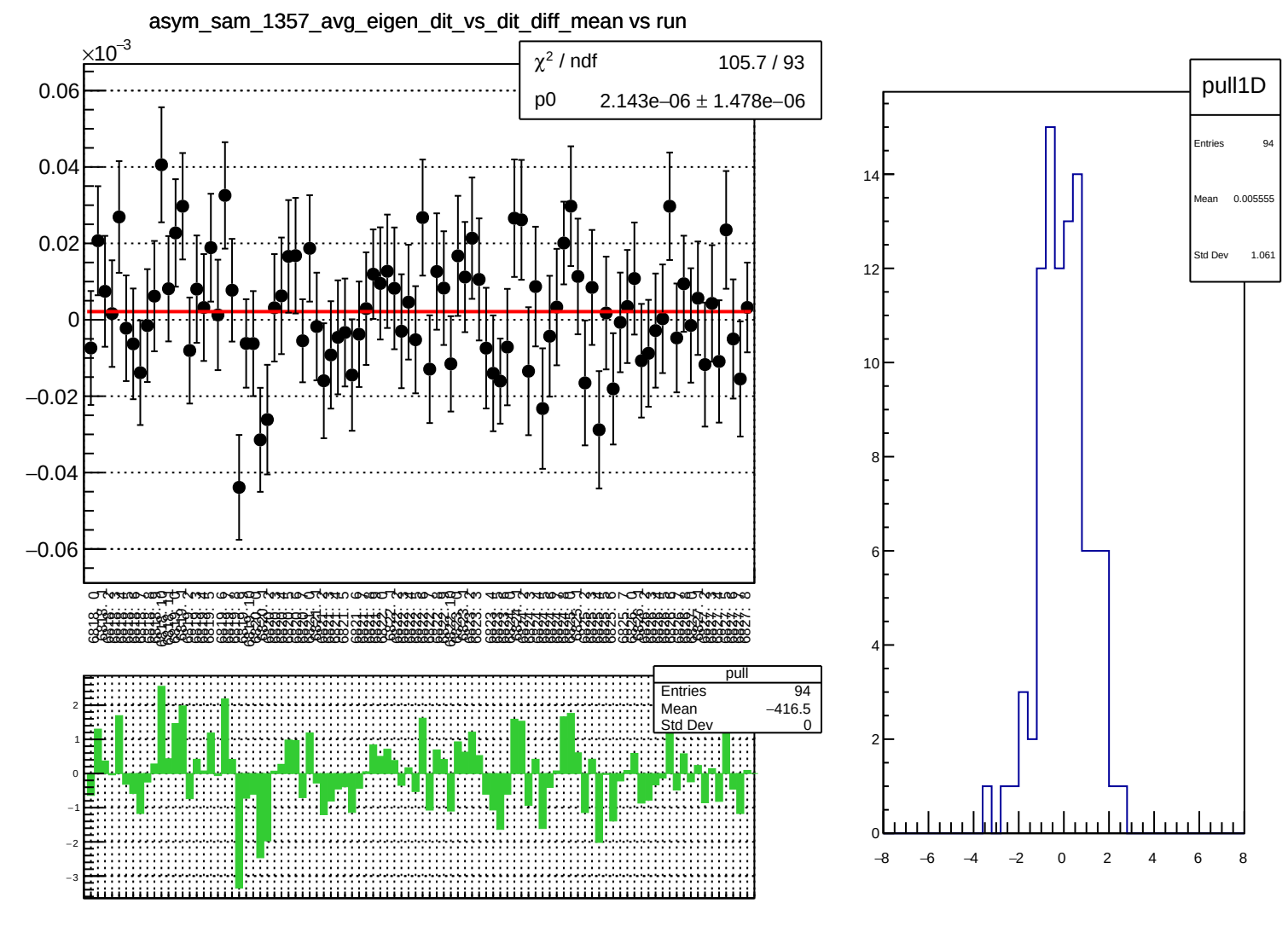

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.88 / 93
p0 0.02109 ± 0.02685
pull
Entries 94
Mean −1071
Std Dev 0

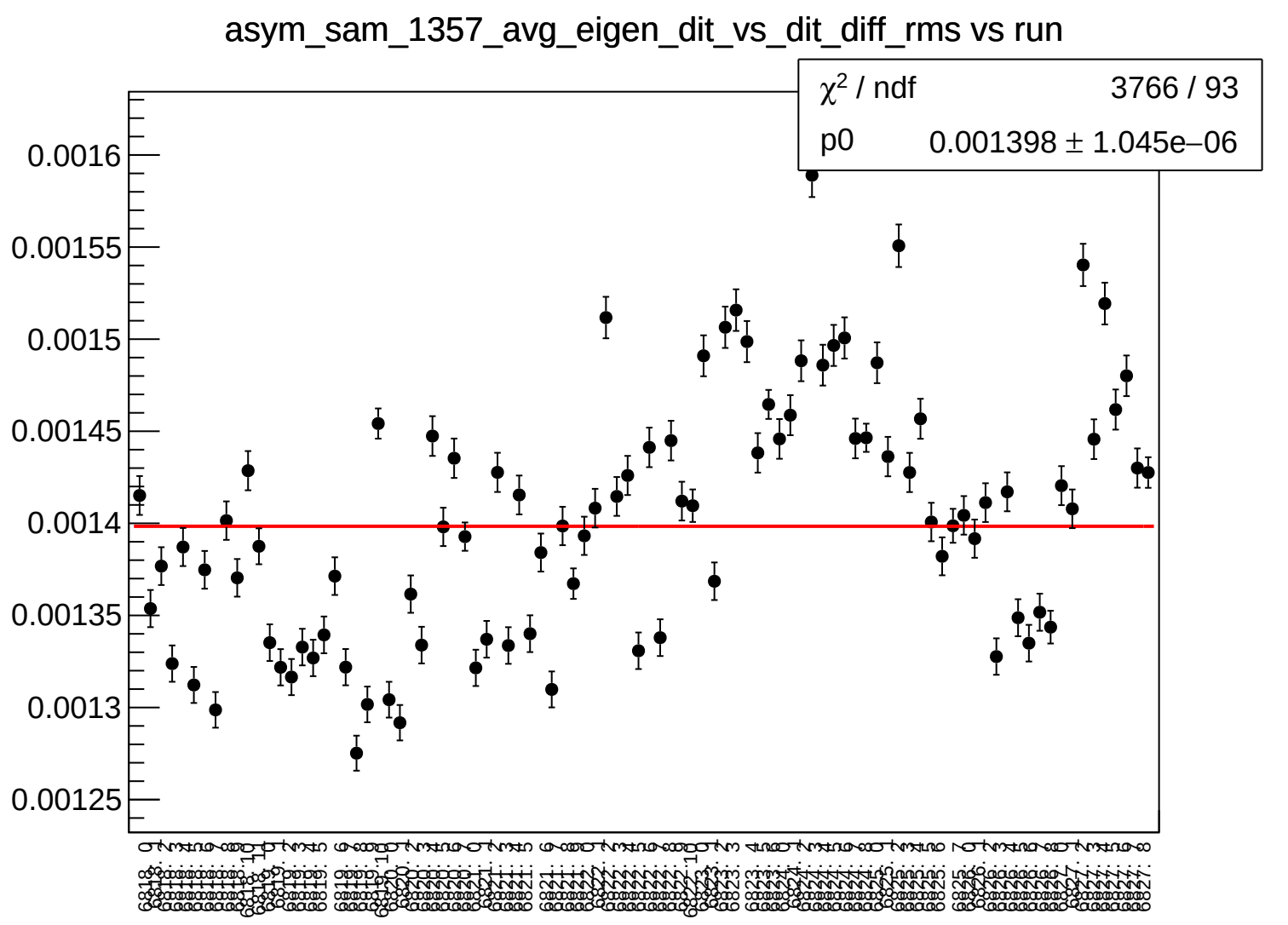

pull1D
Entries 94
Mean 0.002435
Std Dev 0.9219

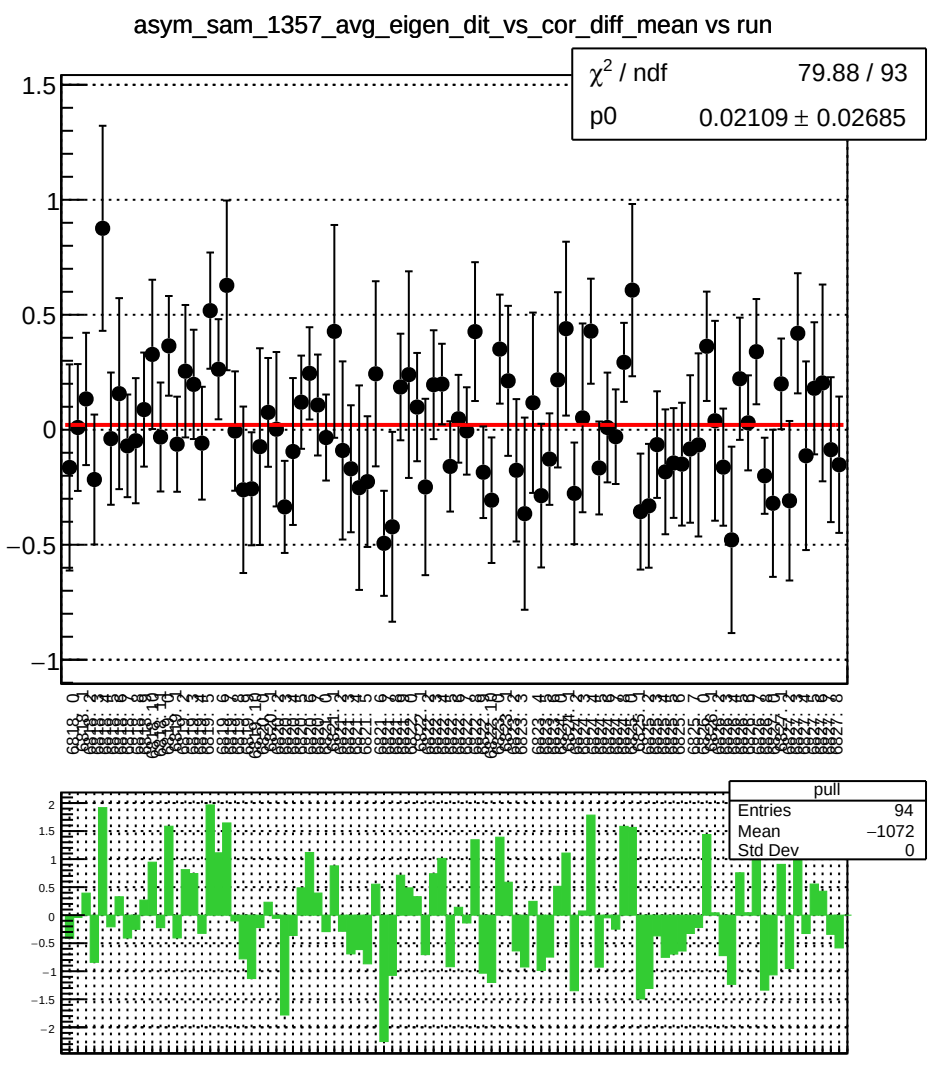

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 93
p0 24.65 ± 0.01898
45
40
35
30
25
20
15

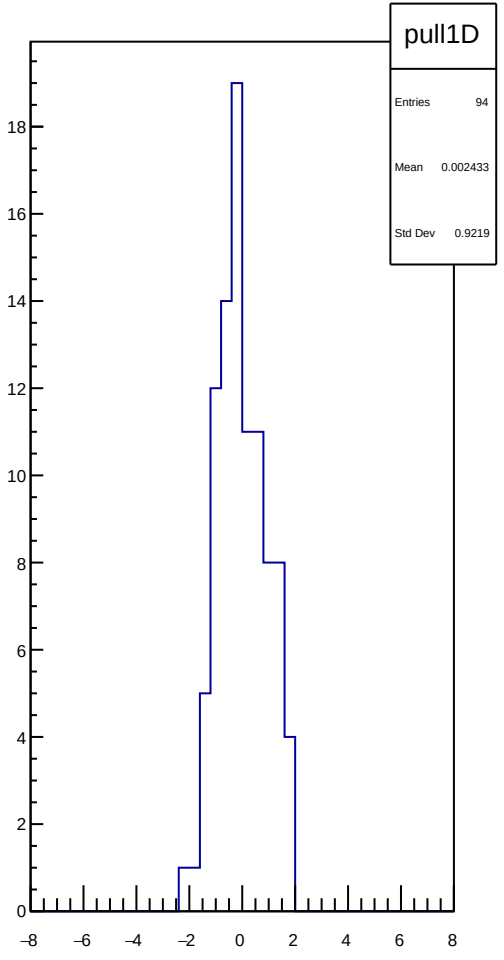

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.88 / 93
p0 0.02109 ± 0.02685
pull
Entries 94
Mean −1071
Std Dev 0
pull1D
Entries 94
Mean 0.002435
Std Dev 0.9219

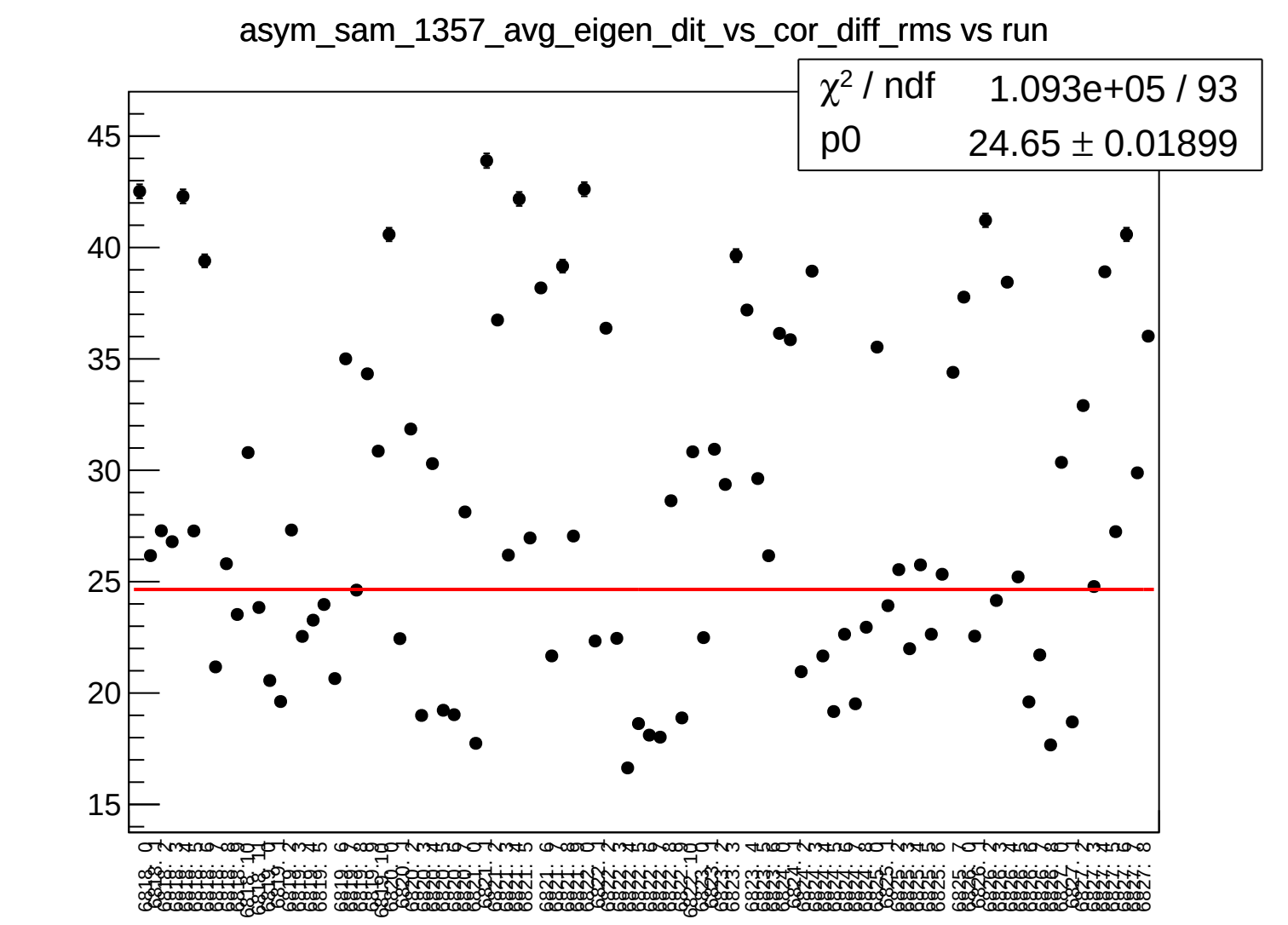

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 93
p0 24.65 ± 0.01898
45
40
35
30
25
20
15

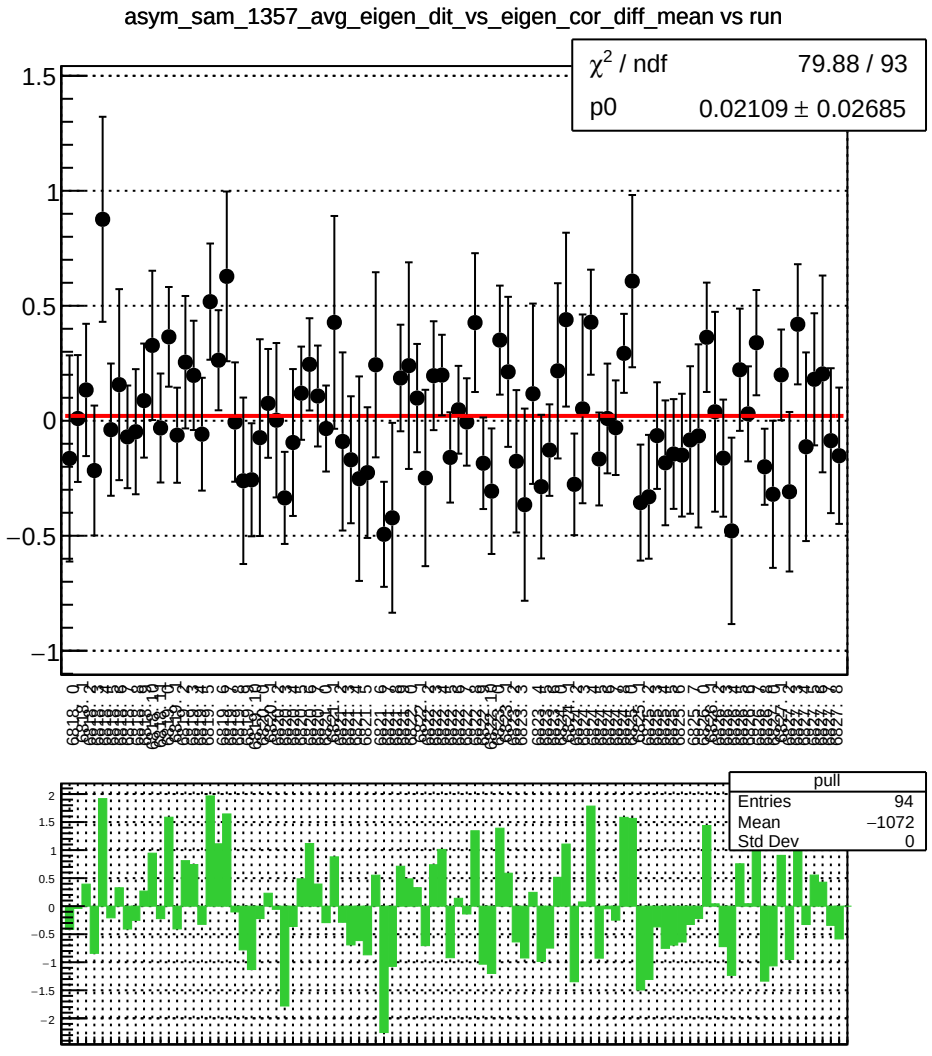

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.7 / 93
p0 2.143e−06 ± 1.478e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −416.5
Std Dev 0
pull1D
Entries 94
Mean 0.005555
Std Dev 1.061

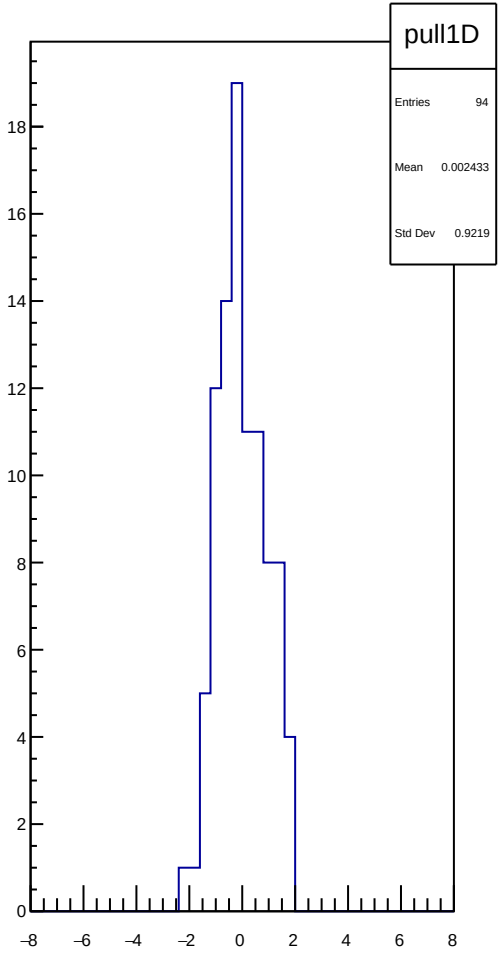

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3766 / 93
p0 0.001398 ± 1.045e−06
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

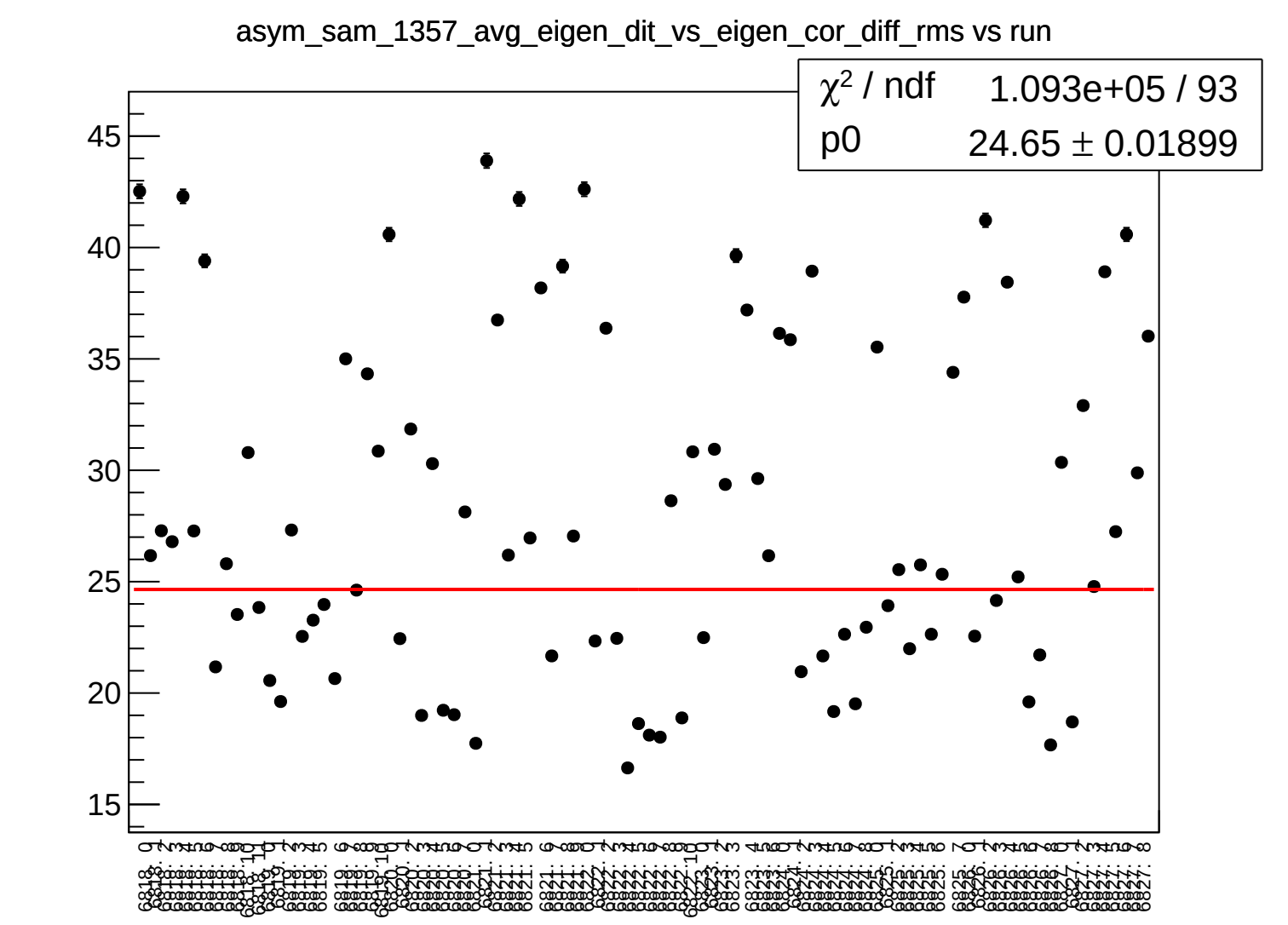

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.88 / 93
p0 0.02109 ± 0.02685
pull
Entries 94
Mean −1072
Std Dev 0

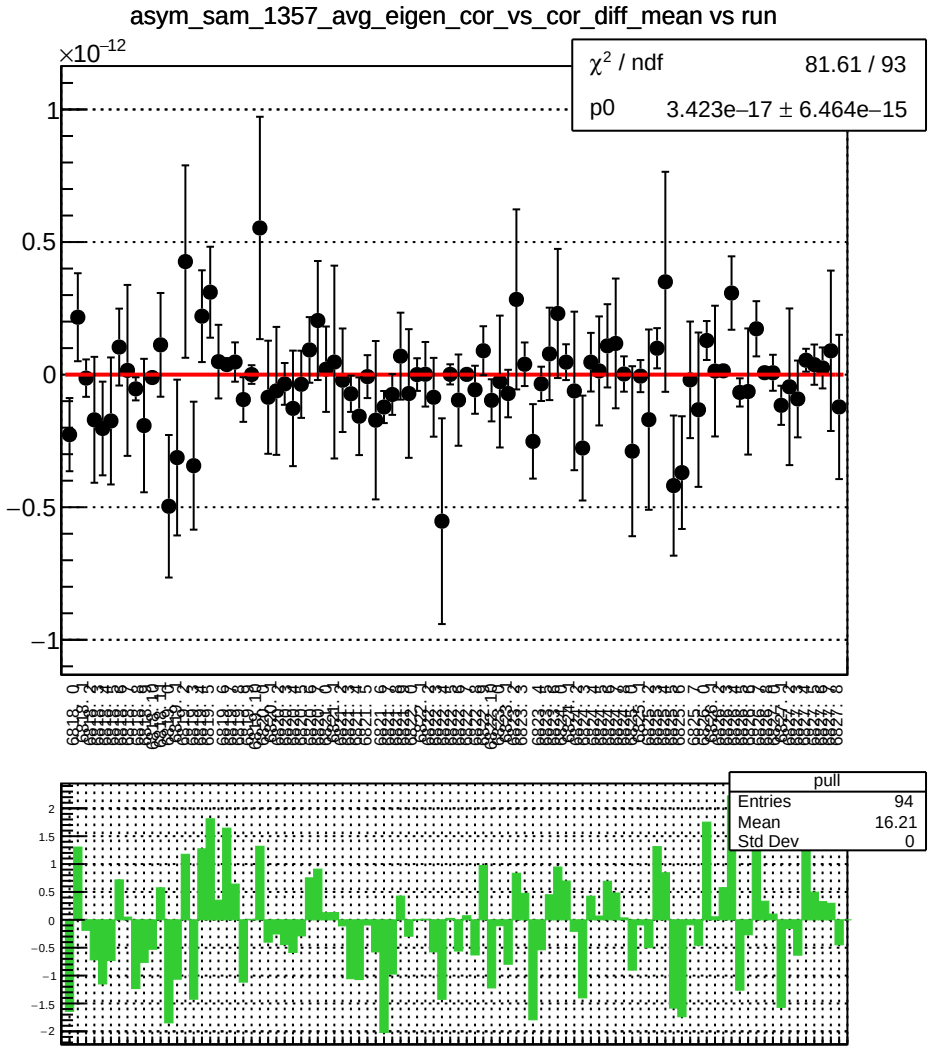

pull1D
Entries 94
Mean 0.002433
Std Dev 0.9219

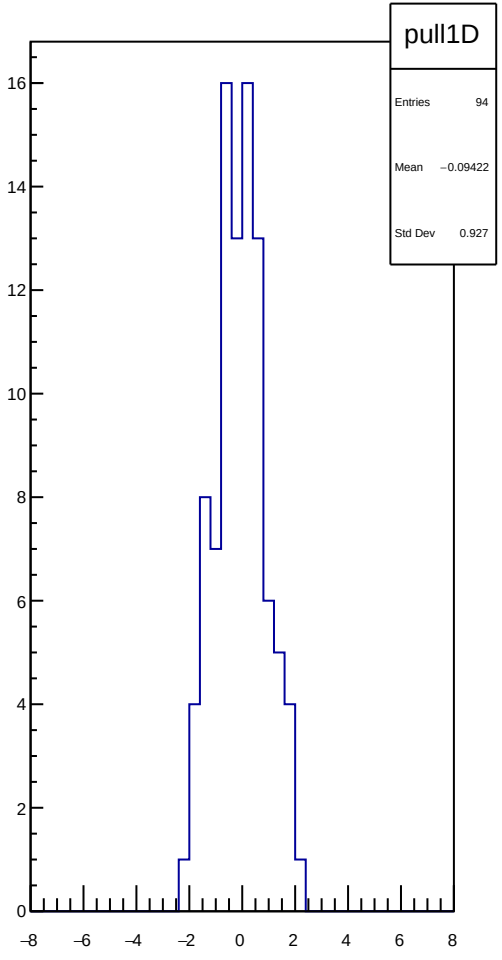

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 93
p0 24.65 ± 0.01899
45
40
35
30
25
20
15

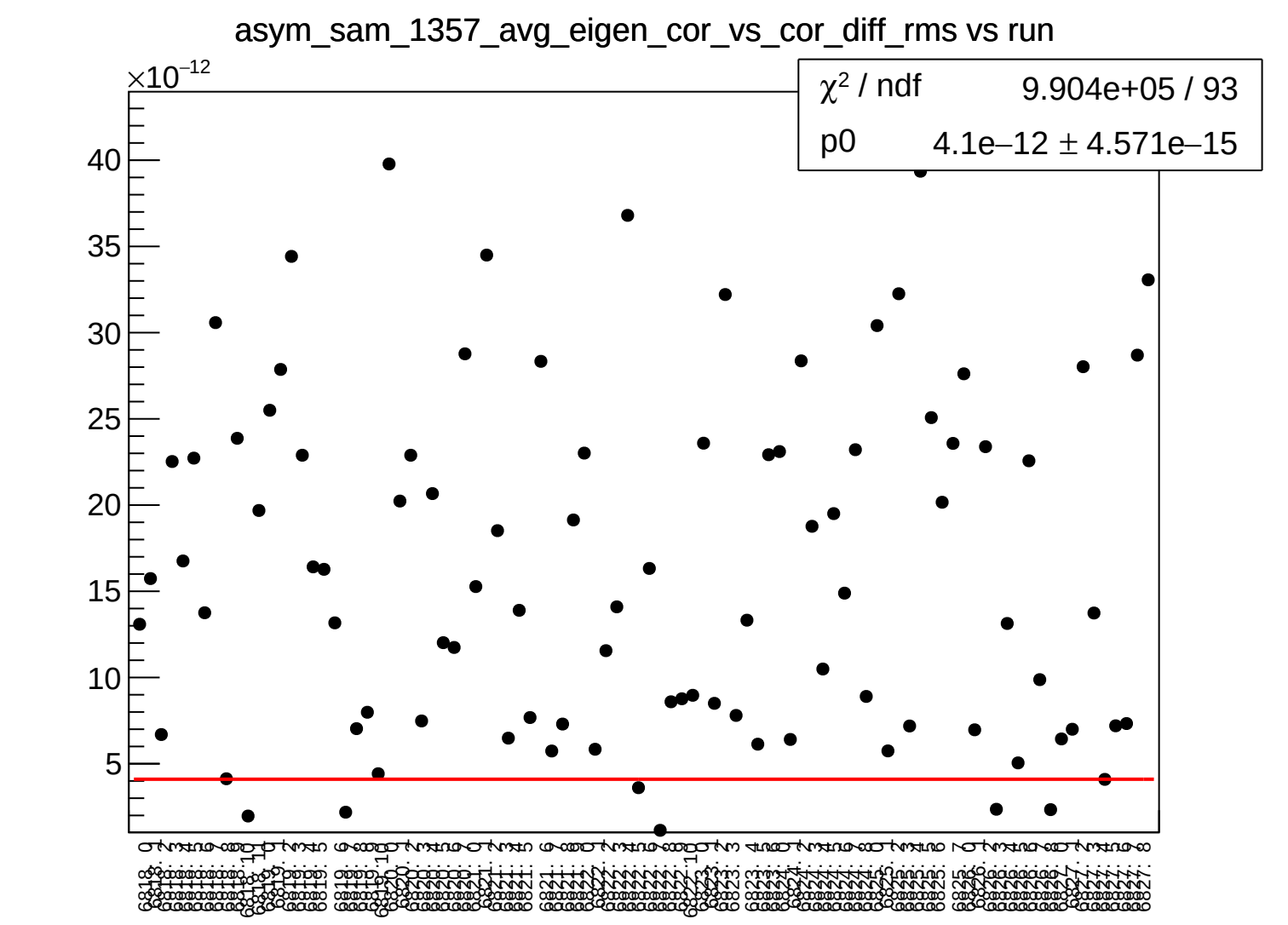

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.88 / 93
p0 0.02109 ± 0.02685
pull
Entries 94
Mean −1072
Std Dev 0

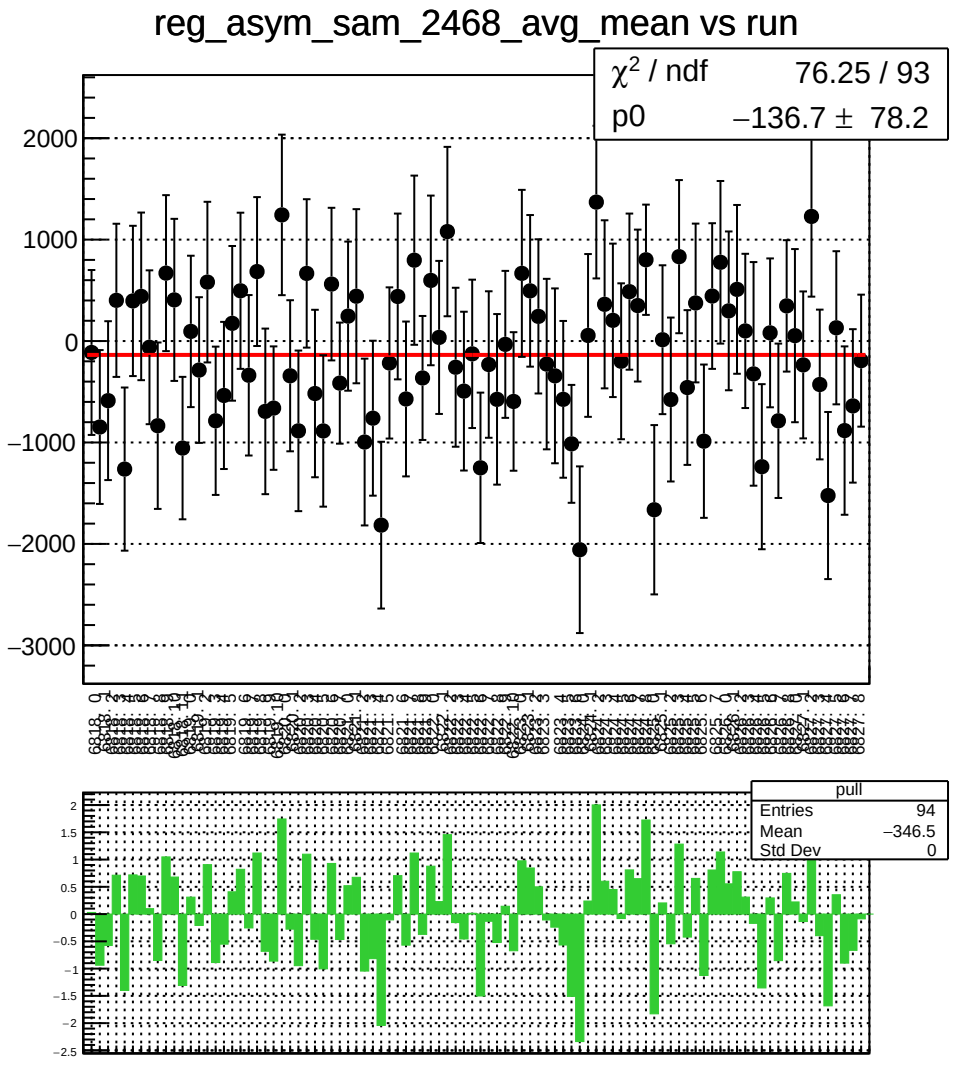

pull1D
Entries 94
Mean 0.002433
Std Dev 0.9219

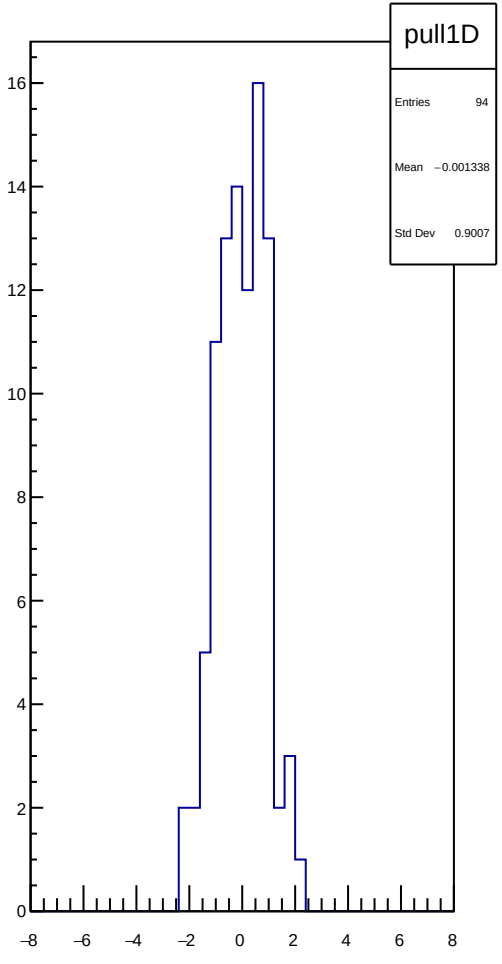

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.093e+05 / 93
p0 24.65 ± 0.01899
45
40
35
30
25
20
15

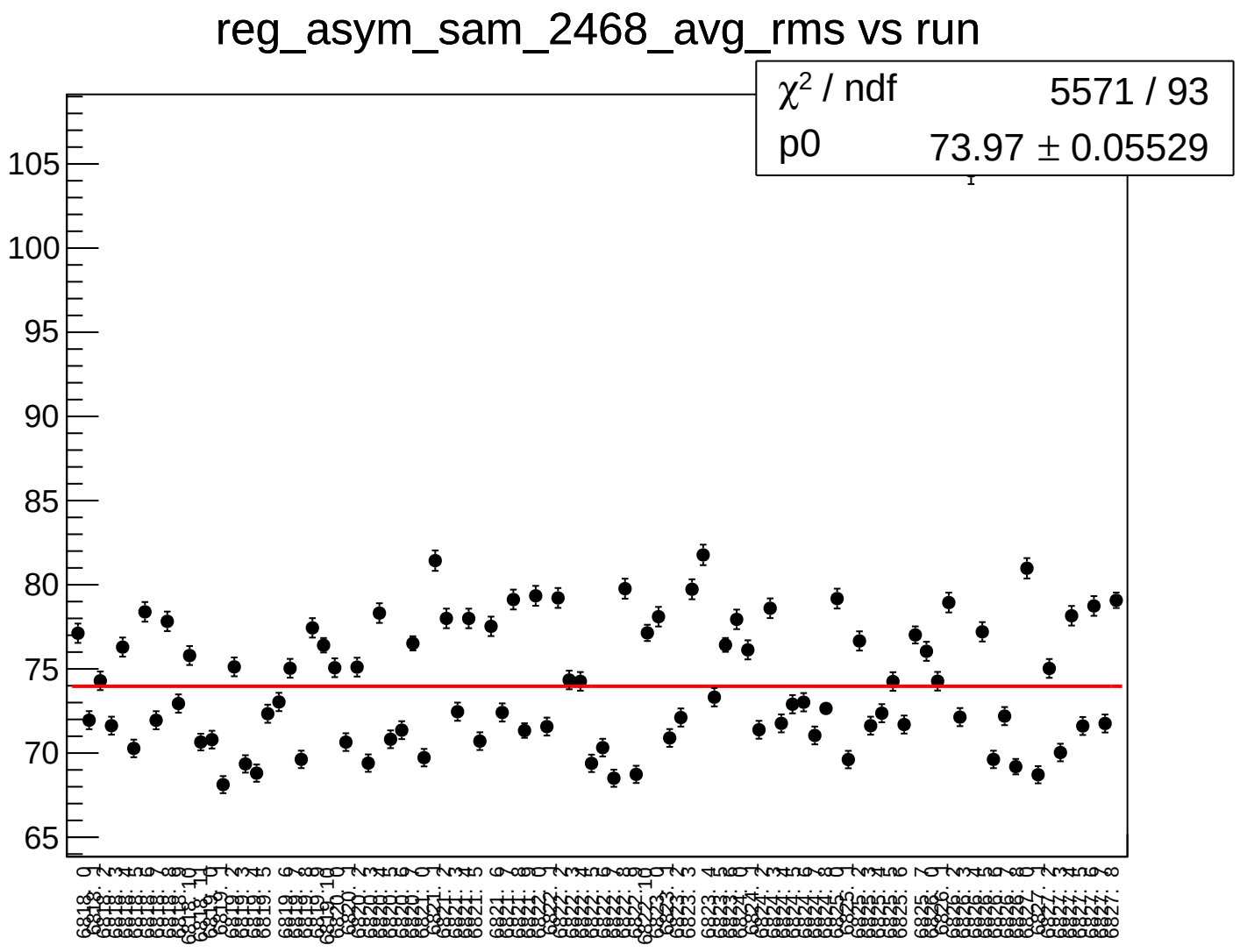

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.61 / 93
p0 3.423e−17 ± 6.464e−15
pull
Entries 94
Mean 16.21
Std Dev 0

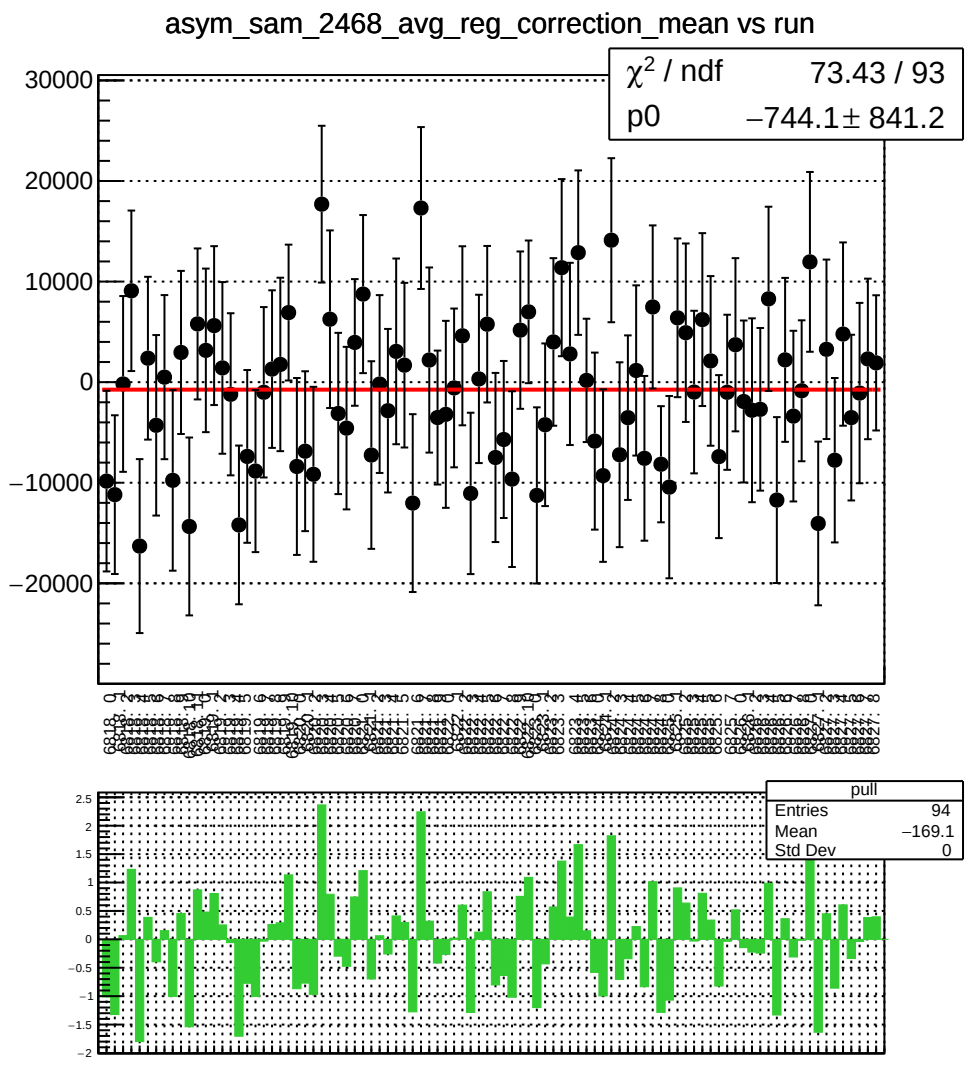

pull1D
Entries 94
Mean −0.09422
Std Dev 0.927

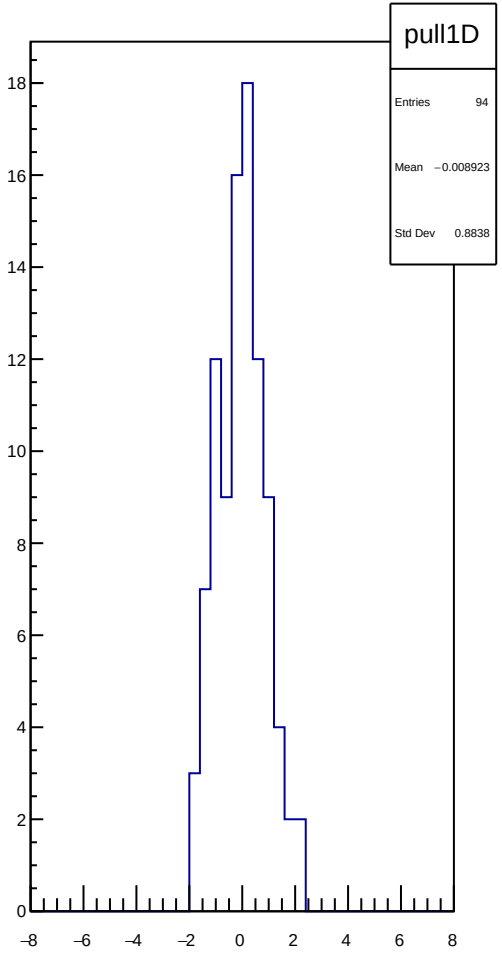

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.904e+05 / 93
p0 4.1e−12 ± 4.571e−15
40
35
30
25
20
15
10
5

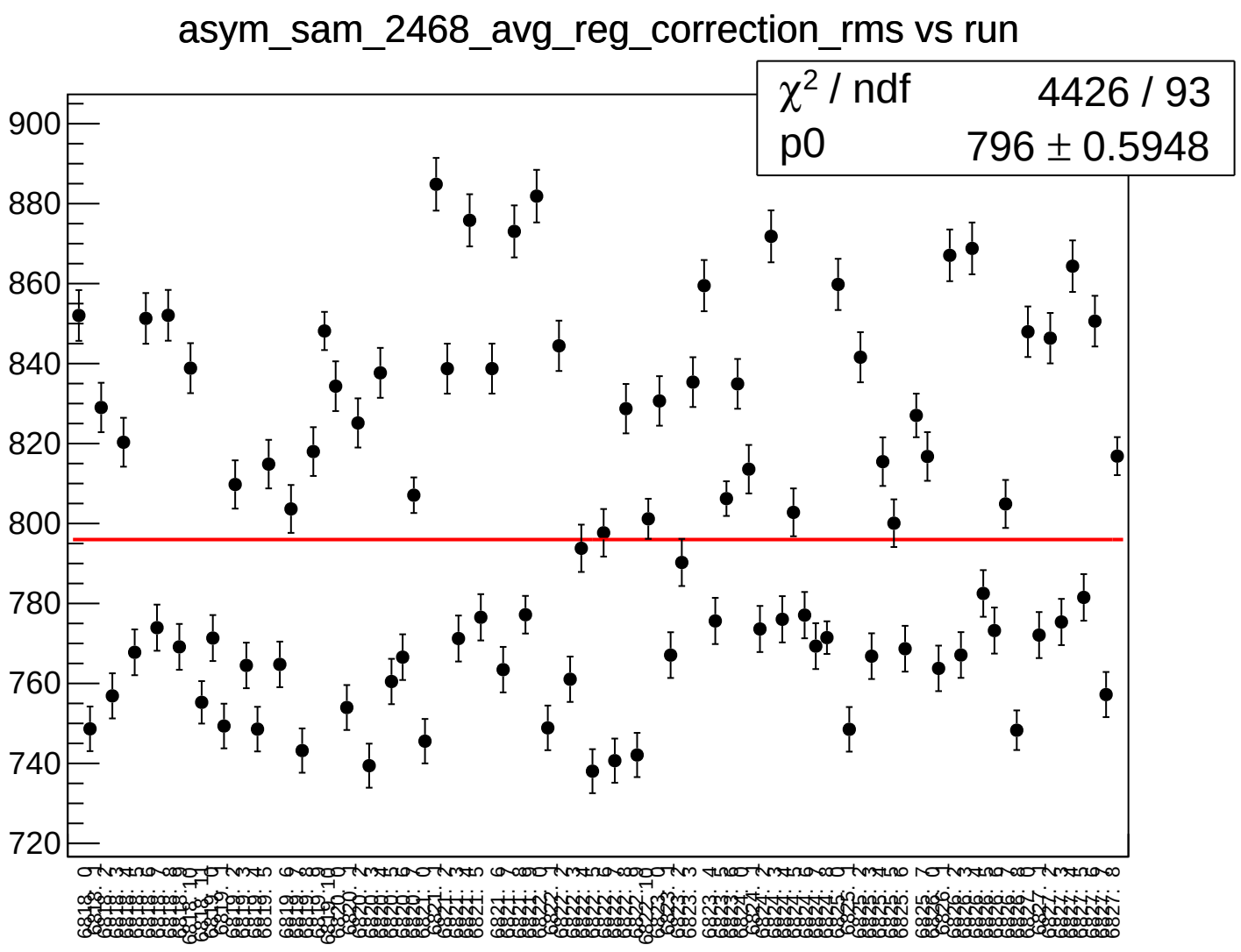

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 76.25 / 93
p0 −136.7 ± 78.2
pull
Entries 94
Mean −346.5
Std Dev 0

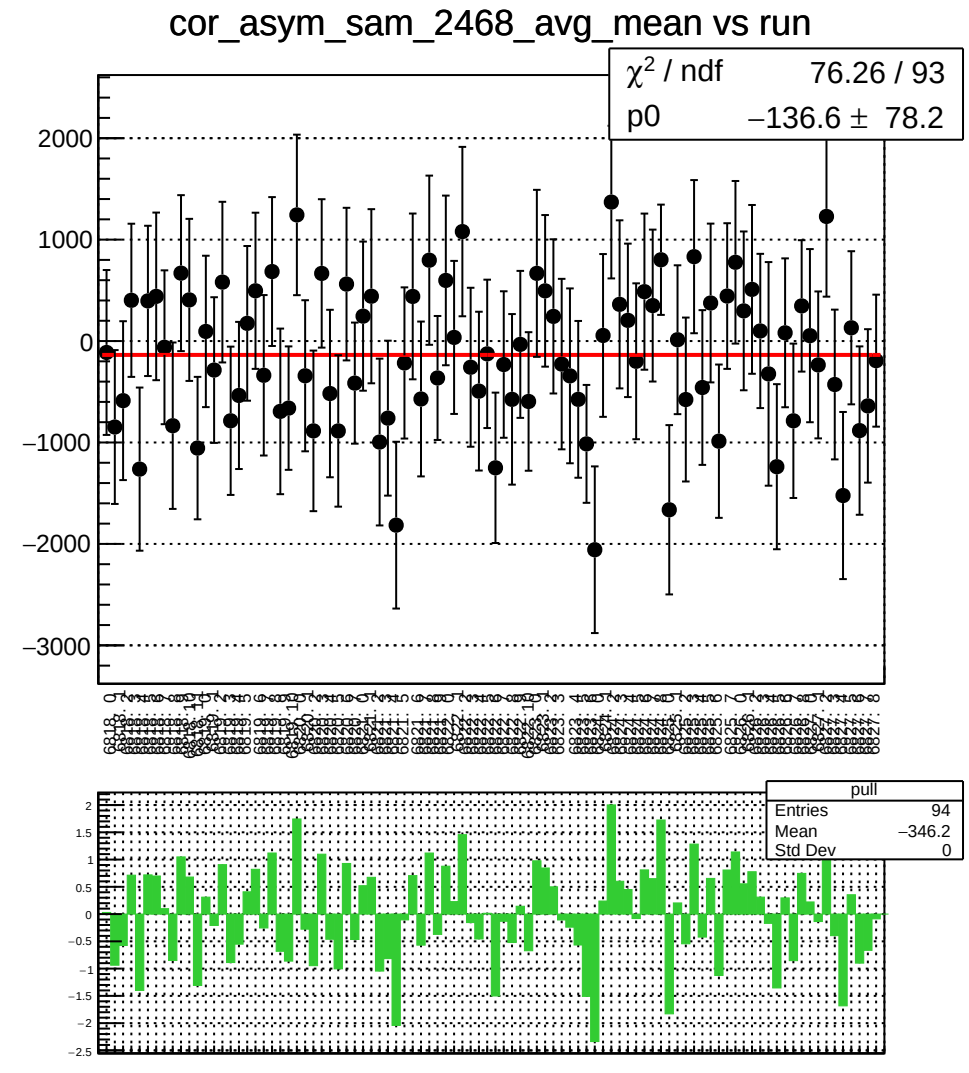

pull1D
Entries 94
Mean −0.001338
Std Dev 0.9007

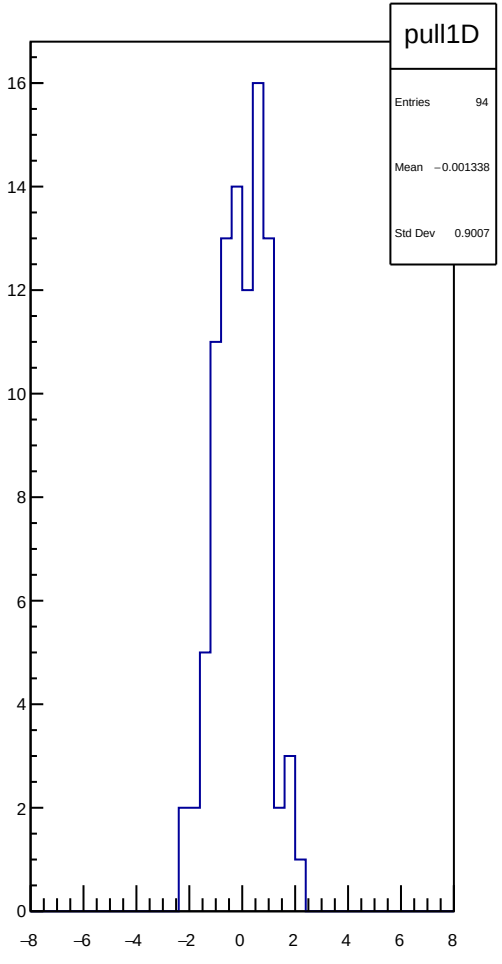

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 5571 / 93
p0 73.97 ± 0.05529
105
100
95
90
85
80
75
70
65

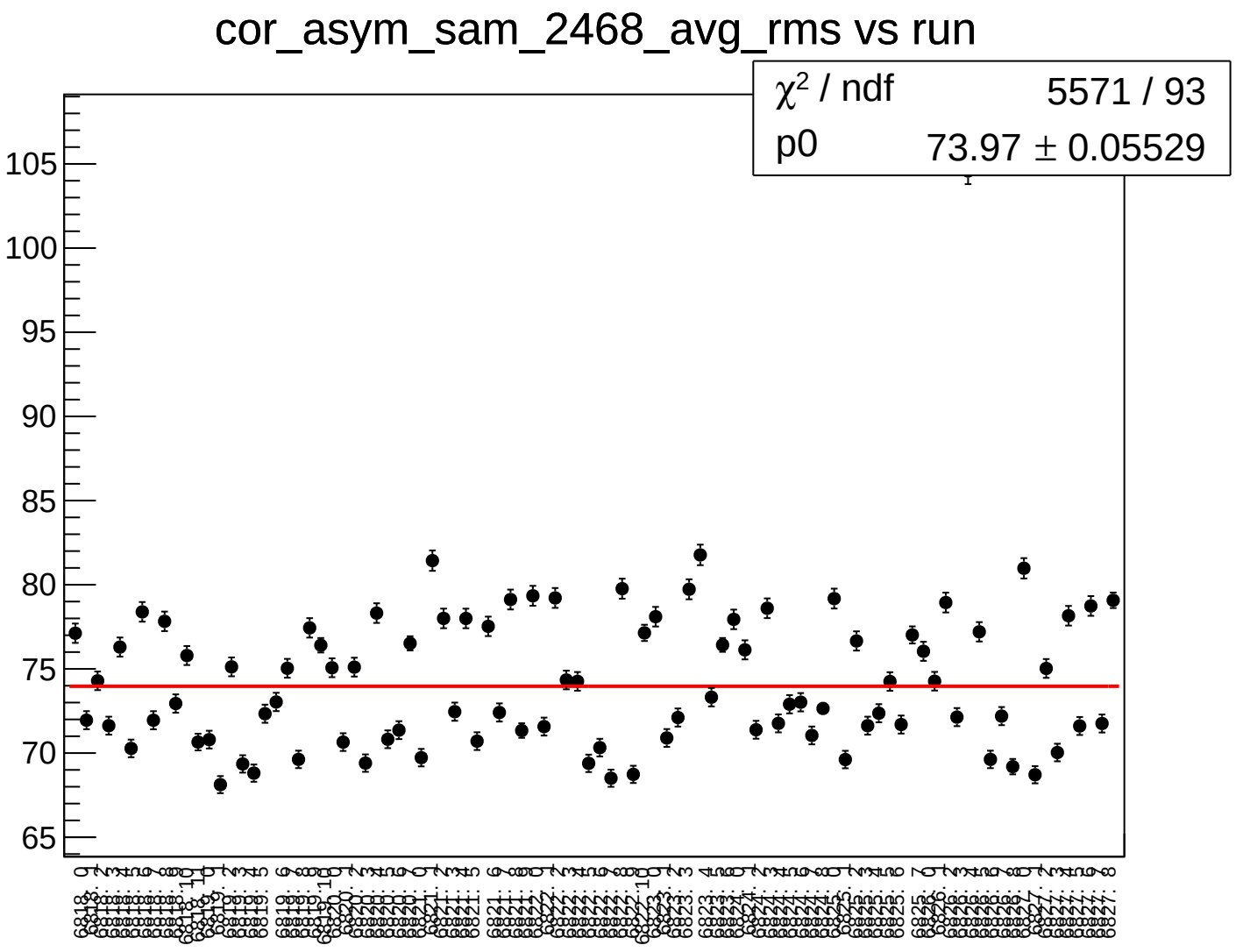

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 73.43 / 93
p0 −744.1 ± 841.2
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −169.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

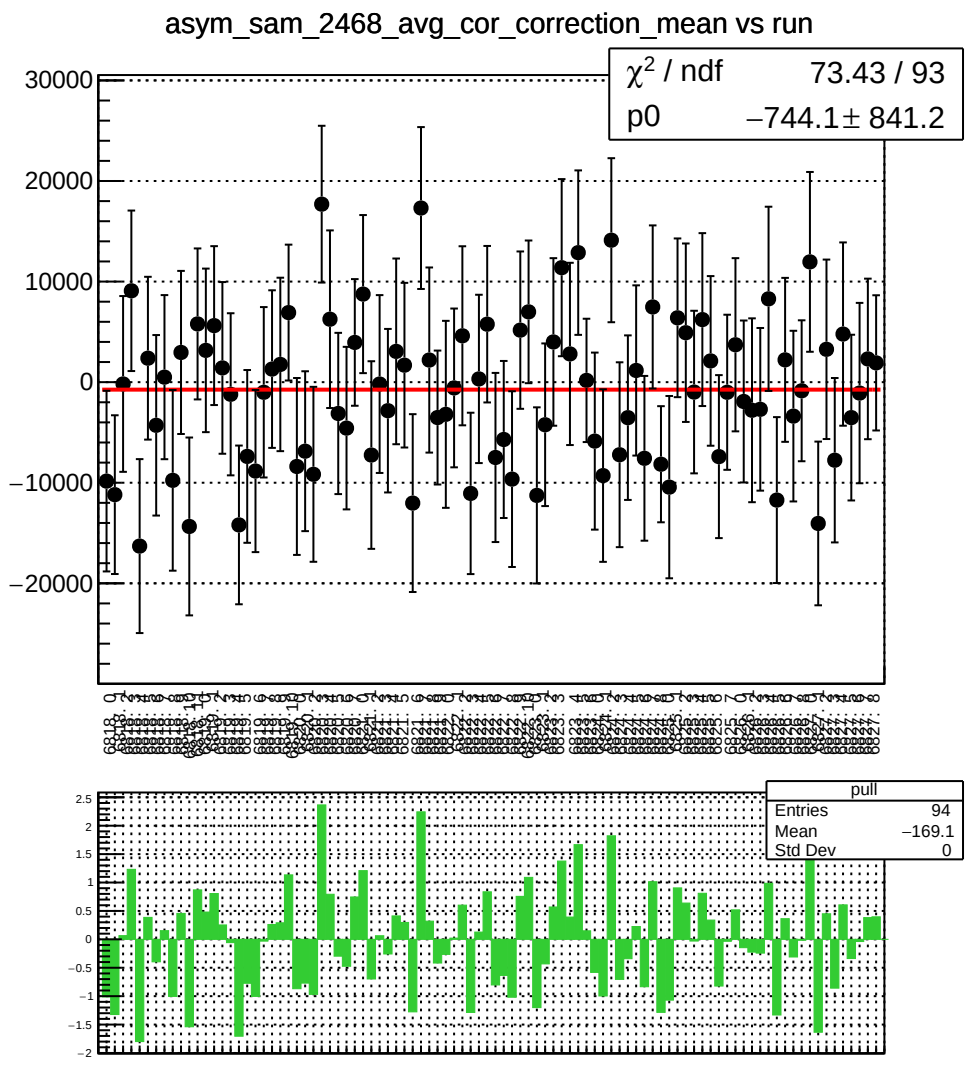

pull1D
Entries 94
Mean −0.008923
Std Dev 0.8838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

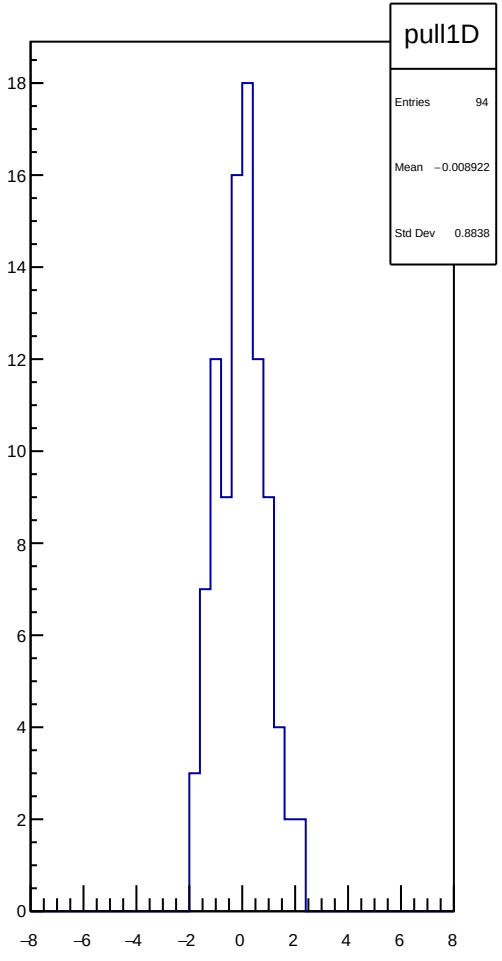

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 4426 / 93
p0 796 ± 0.5948
900
880
860
840
820
800
780
760
740
720

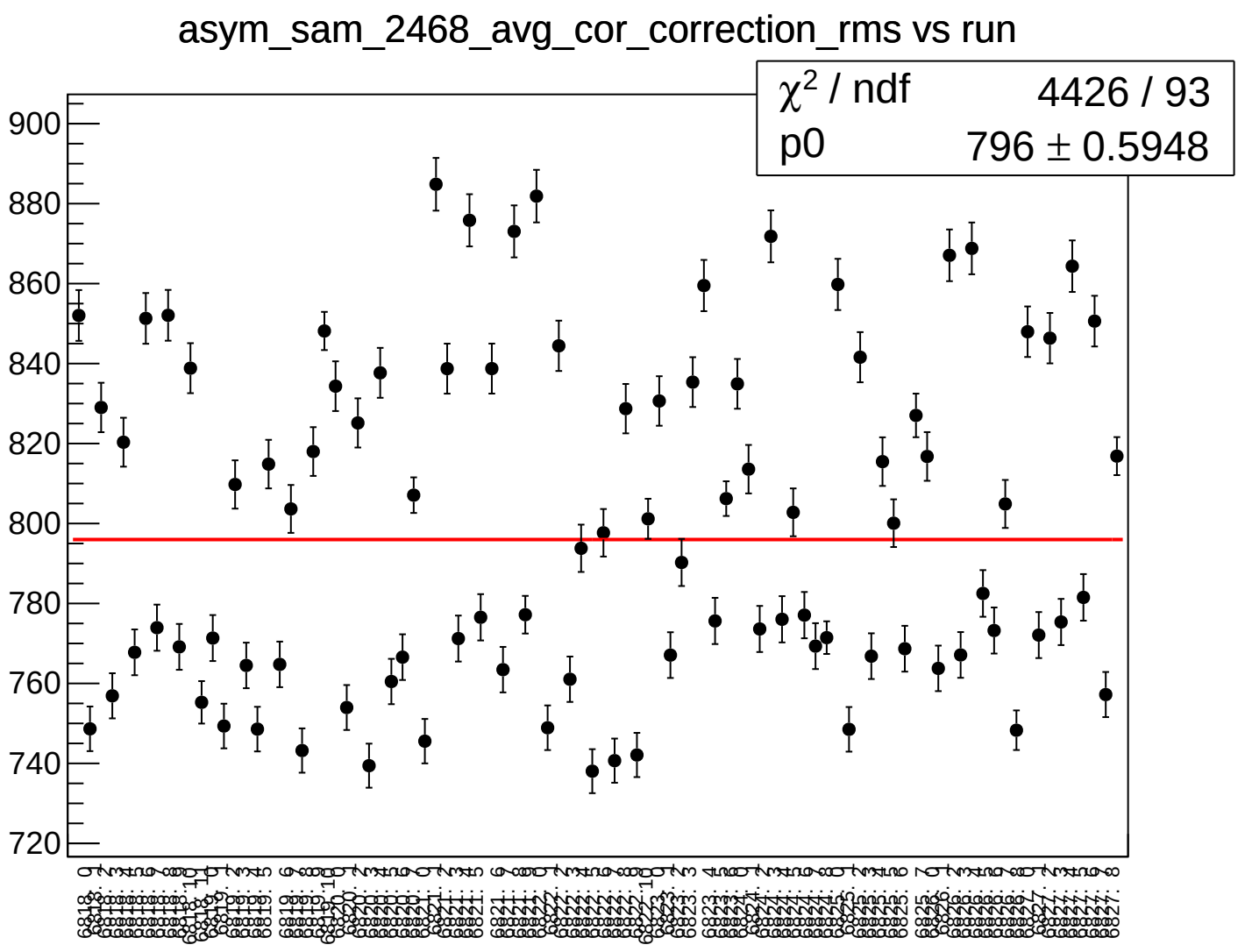

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.26 / 93
p0 −136.6 ± 78.2
pull
Entries 94
Mean −346.2
Std Dev 0

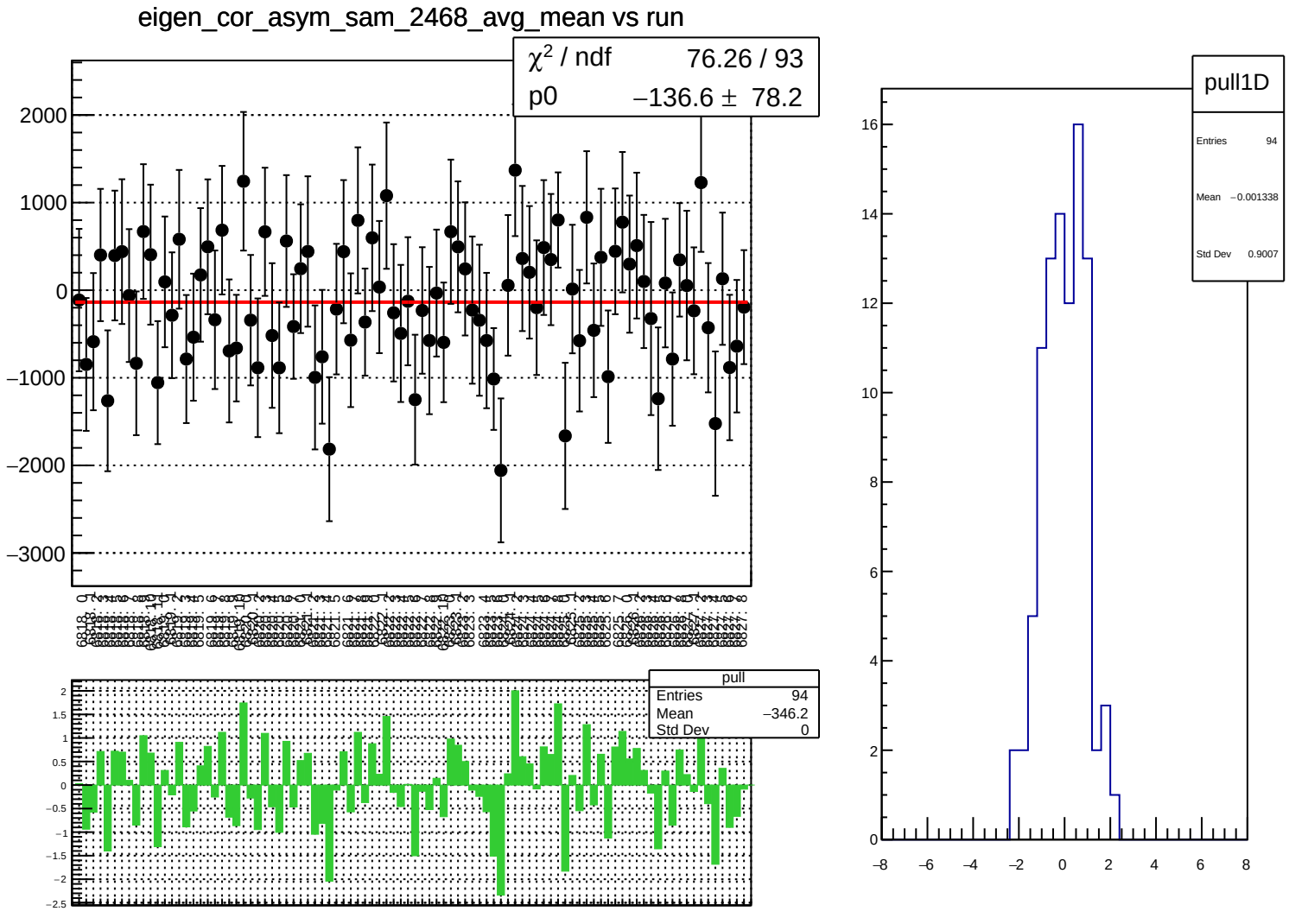

pull1D
Entries 94
Mean −0.001338
Std Dev 0.9007

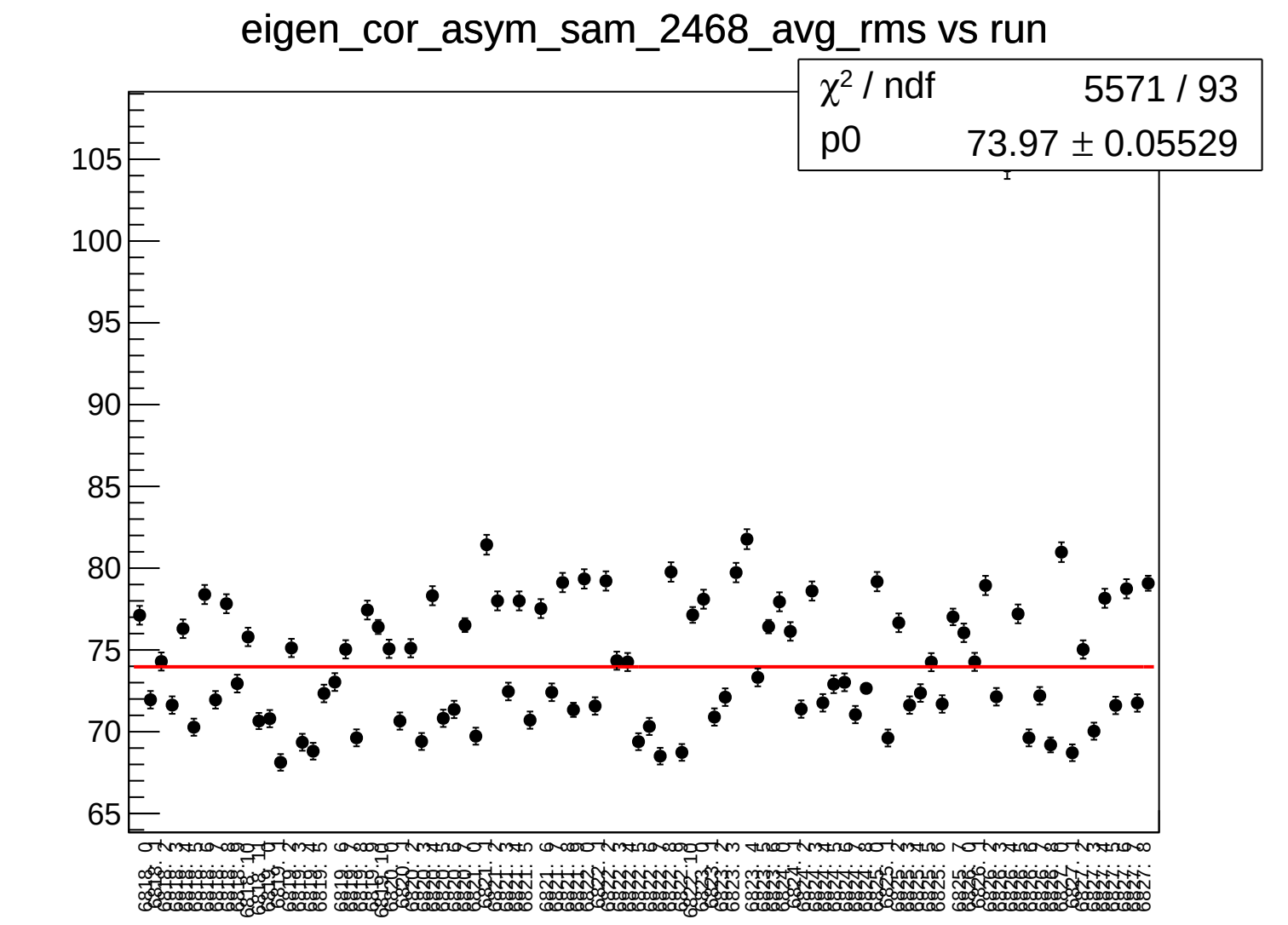

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5571 / 93
p0 73.97 ± 0.05529
105
100
95
90
85
80
75
70
65

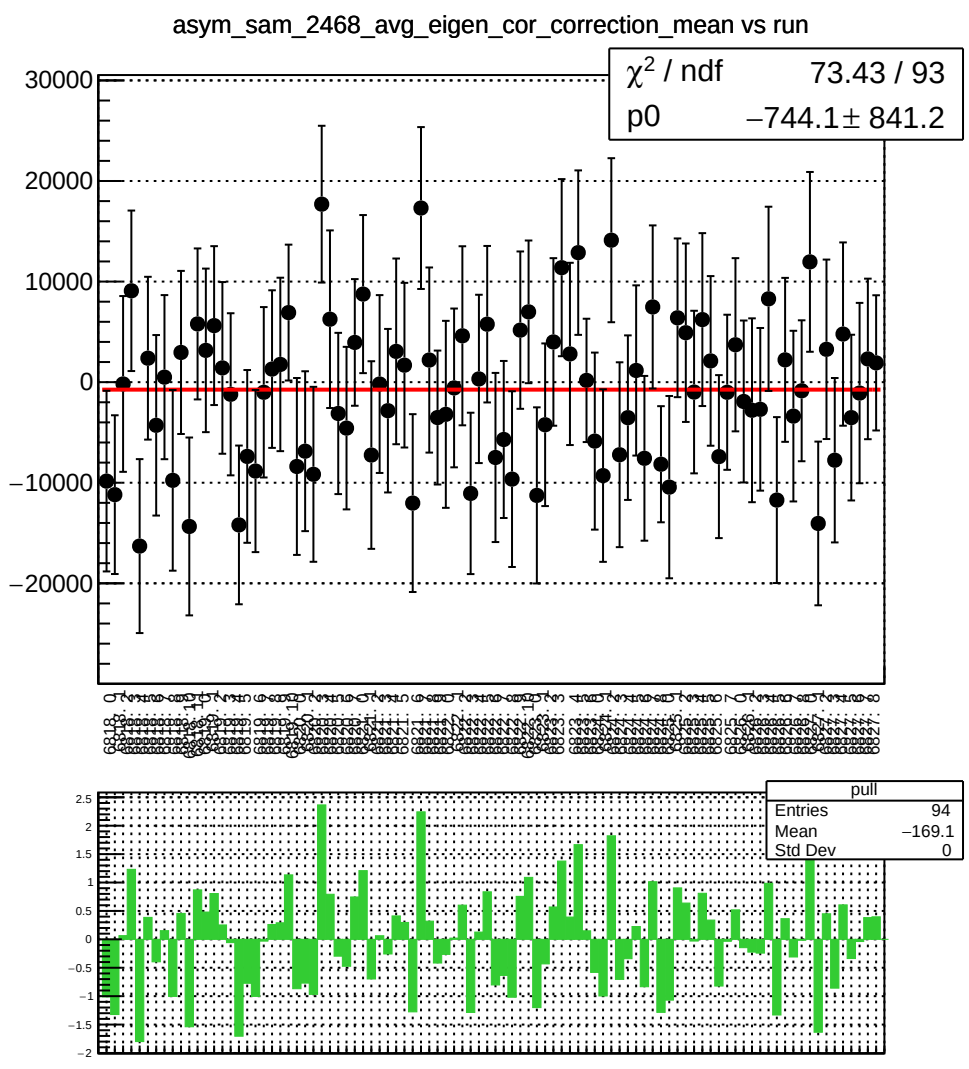

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 73.43 / 93
p0 −744.1 ± 841.2
pull
Entries 94
Mean −169.1
Std Dev 0

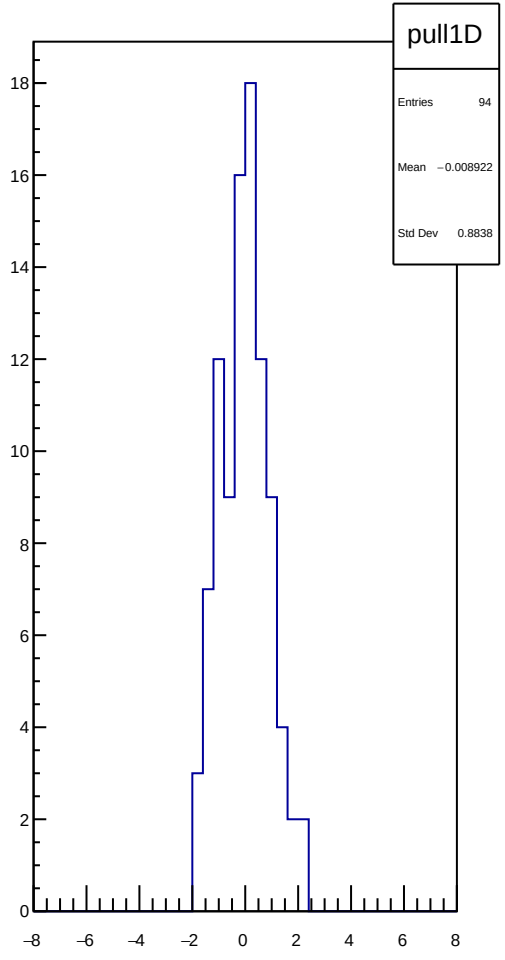

pull1D
Entries 94
Mean −0.008922
Std Dev 0.8838

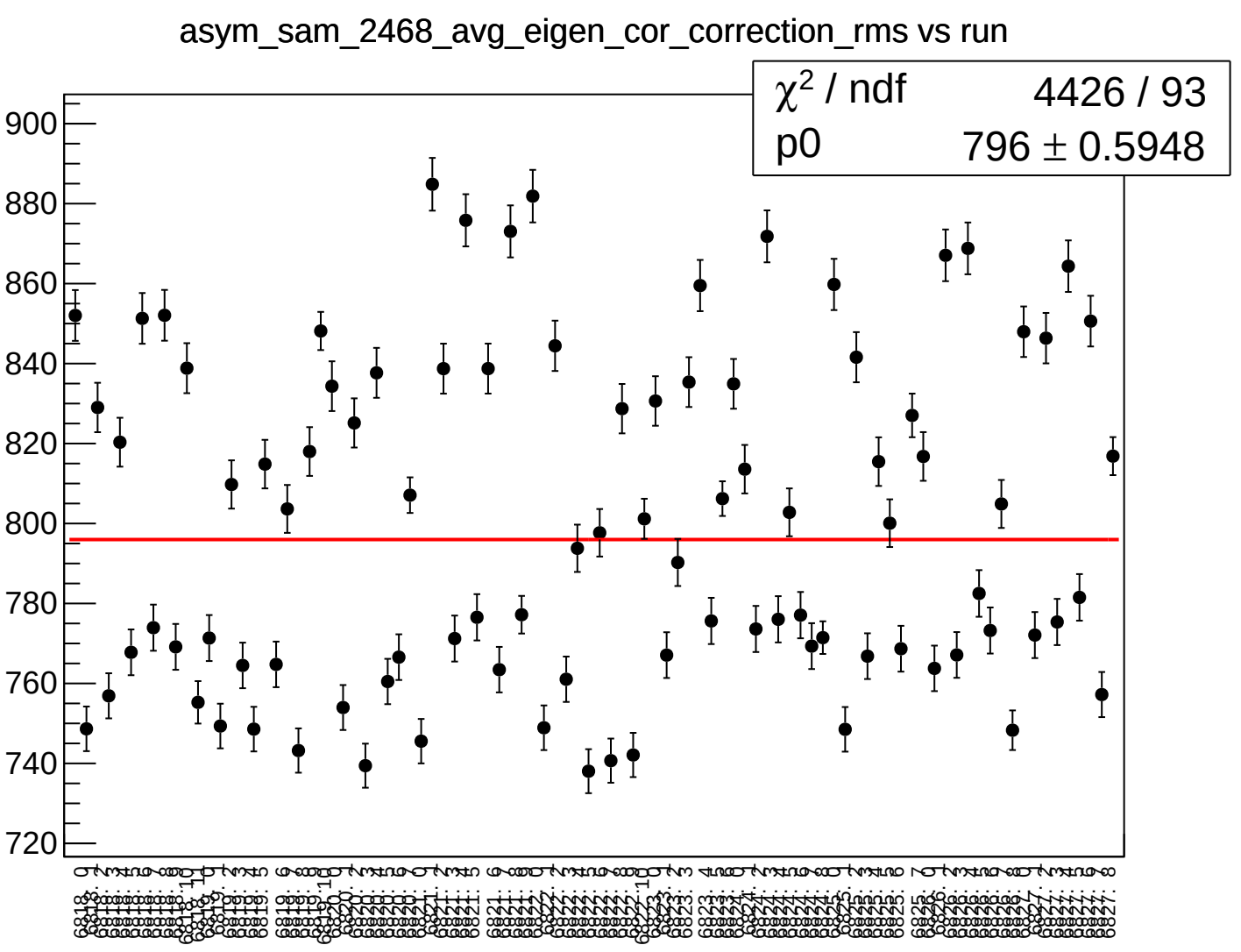

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 4426 / 93
p0 796 ± 0.5948
900
880
860
840
820
800
780
760
740
720

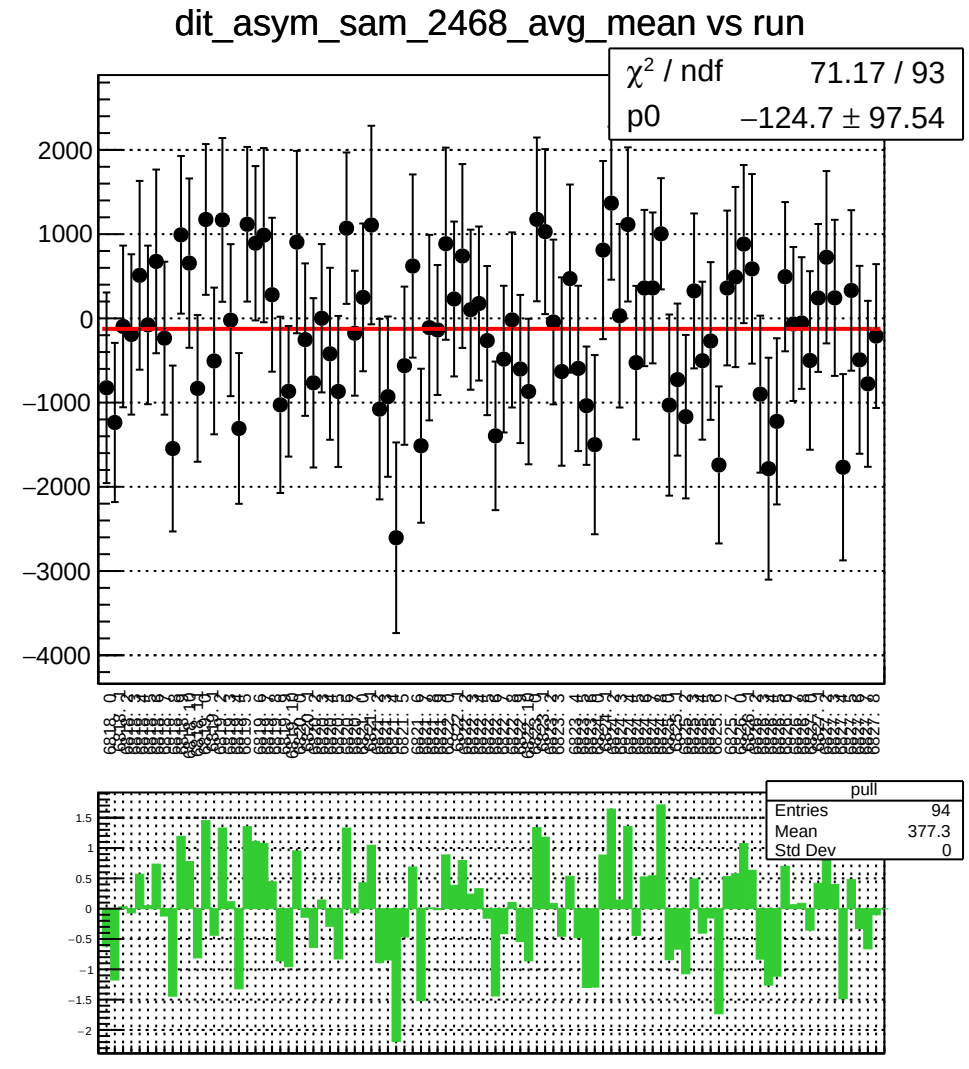

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 76.26 / 93
p0 −136.6 ± 78.2
pull
Entries 94
Mean −346.2
Std Dev 0
pull1D
Entries 94
Mean −0.001338
Std Dev 0.9007

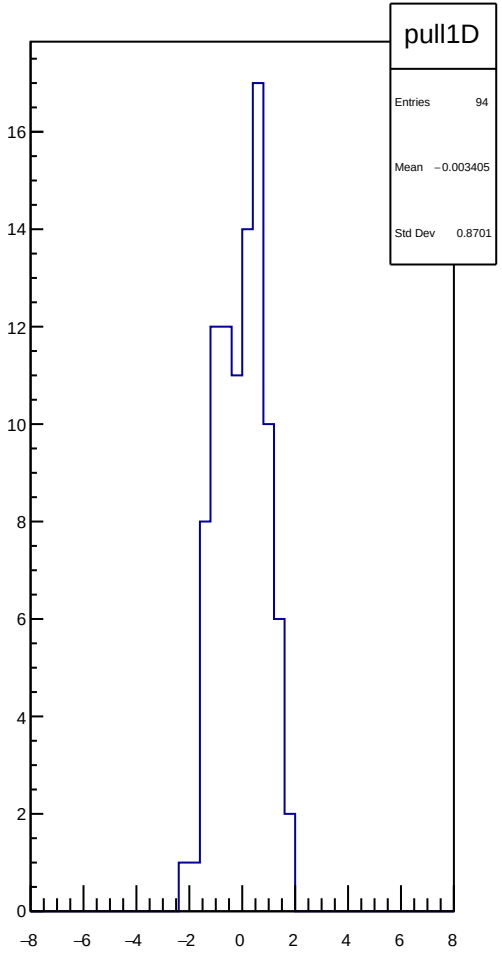

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 5571 / 93
p0 73.97 ± 0.05529
105
100
95
90
85
80
75
70
65

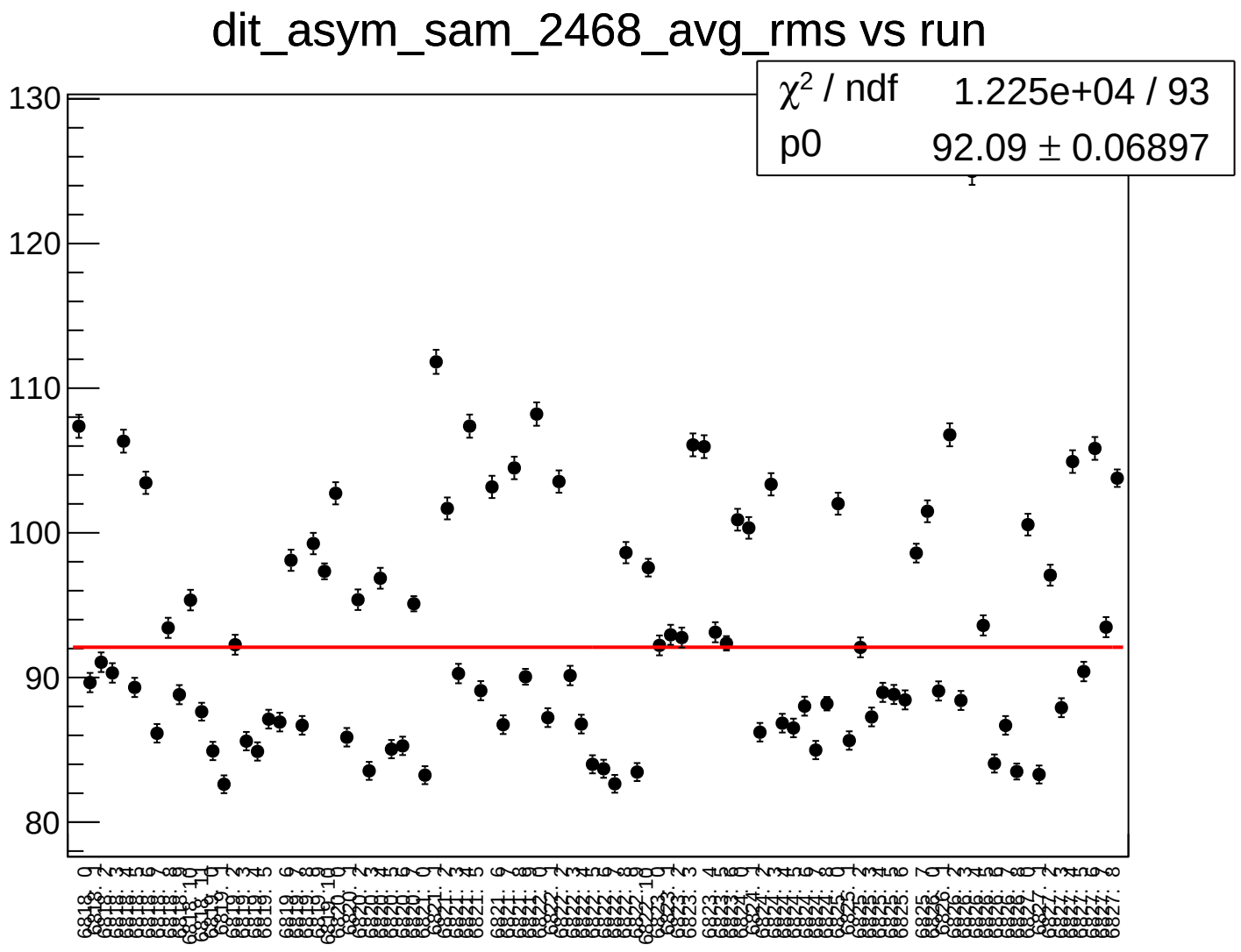

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.43 / 93
p0 −744.1 ± 841.2
30000
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −169.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

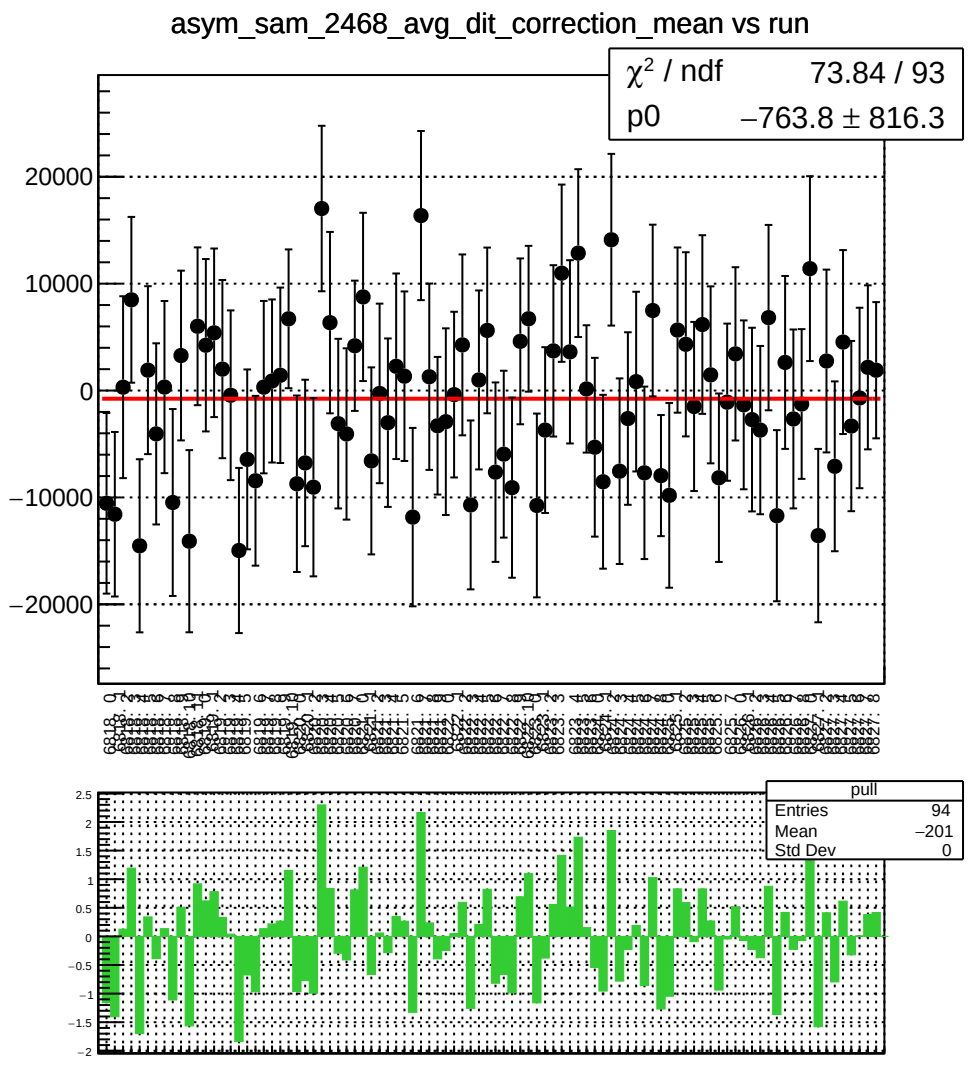

pull1D
Entries 94
Mean −0.008922
Std Dev 0.8838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

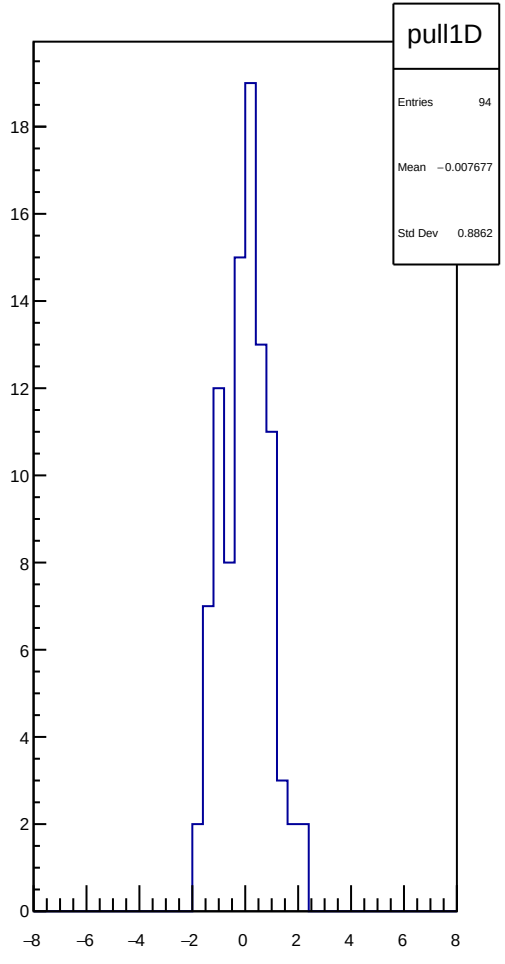

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 4426 / 93
p0 796 ± 0.5948
900
880
860
840
820
800
780
760
740
720

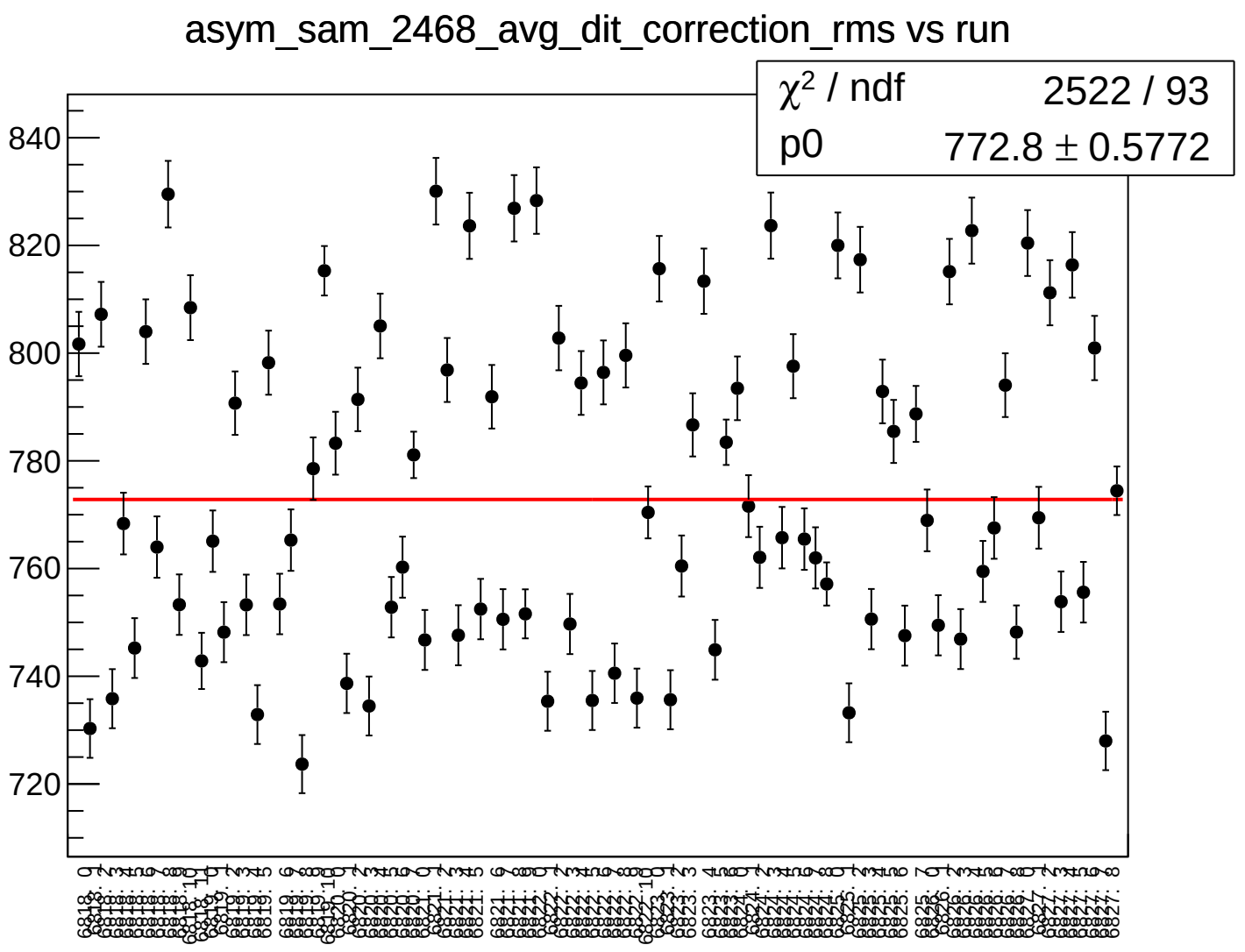

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 71.17 / 93
p0 −124.7 ± 97.54
pull
Entries 94
Mean 377.3
Std Dev 0

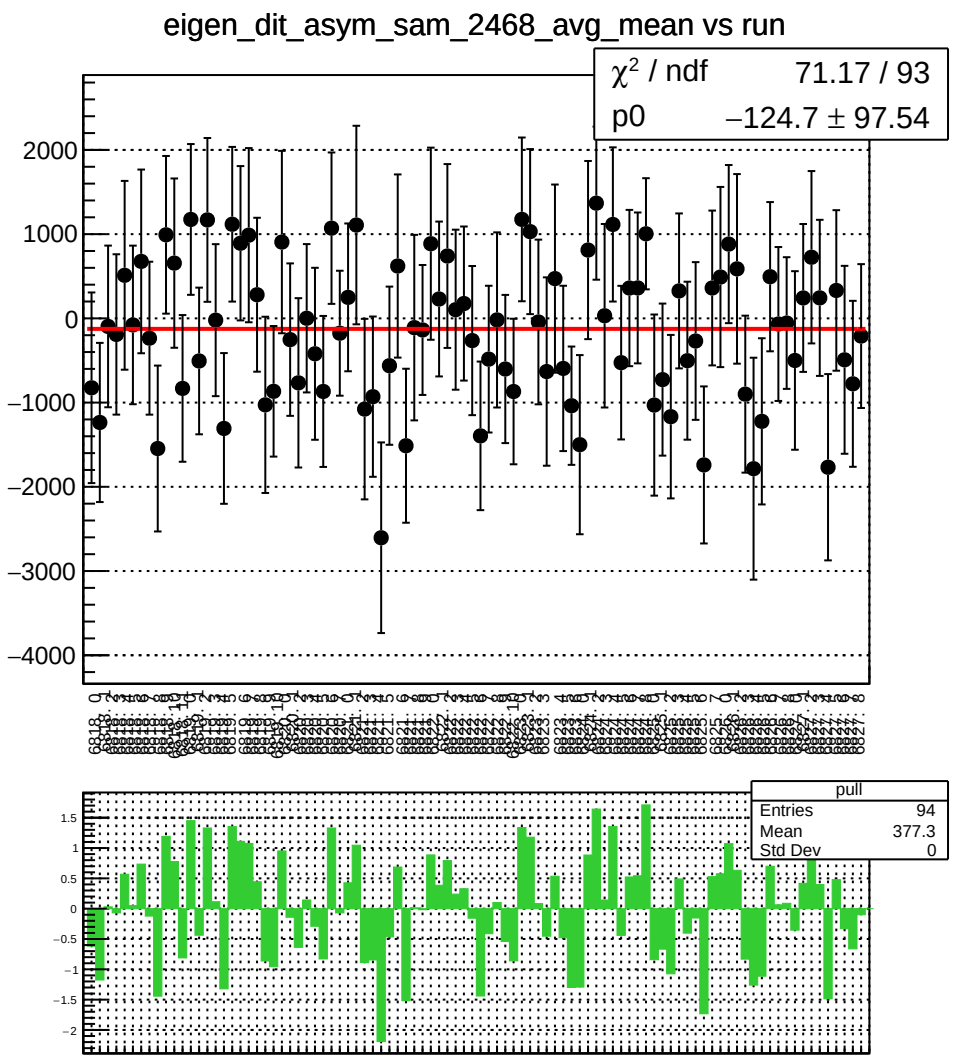

pull1D
Entries 94
Mean −0.003405
Std Dev 0.8701

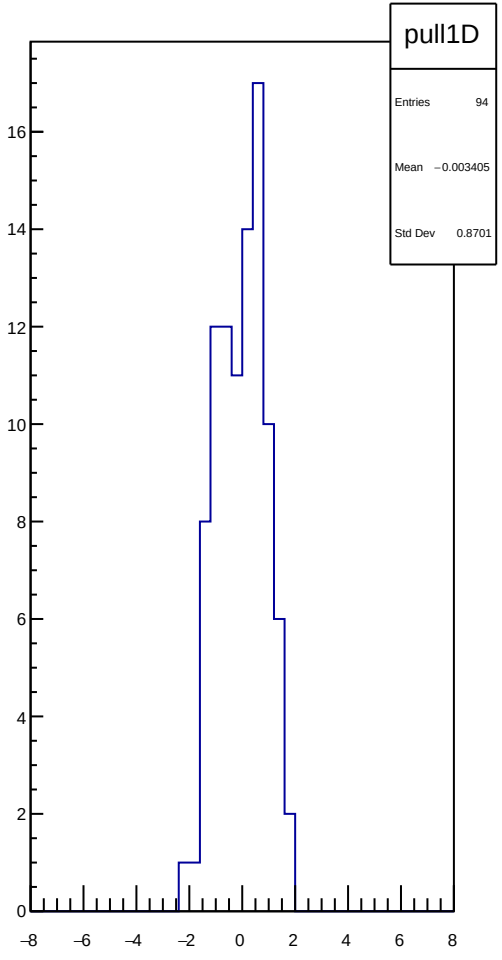

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.225e+04 / 93
p0 92.09 ± 0.06897
130
120
110
100
90
80

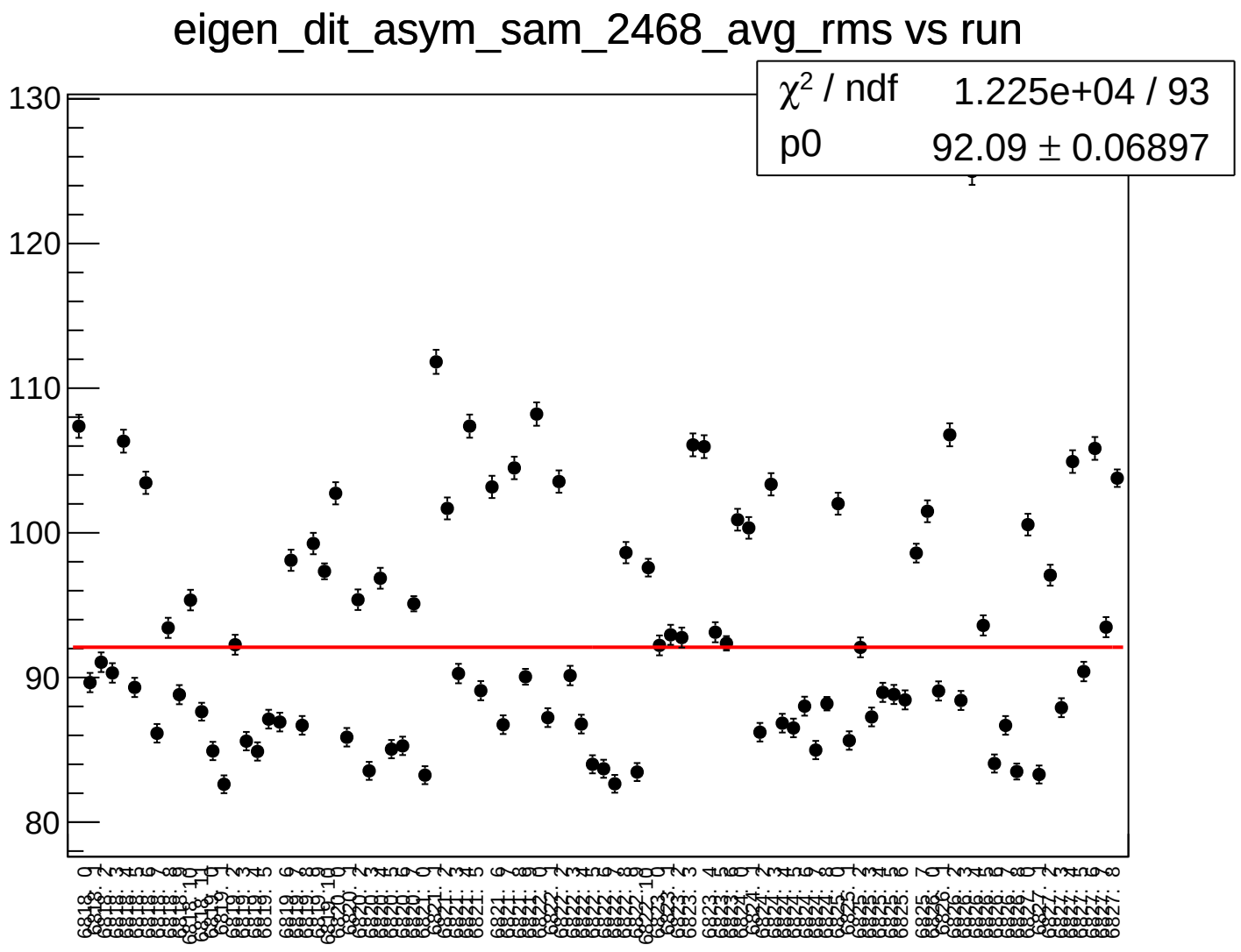

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 73.84 / 93
p0 −763.8 ± 816.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −201
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

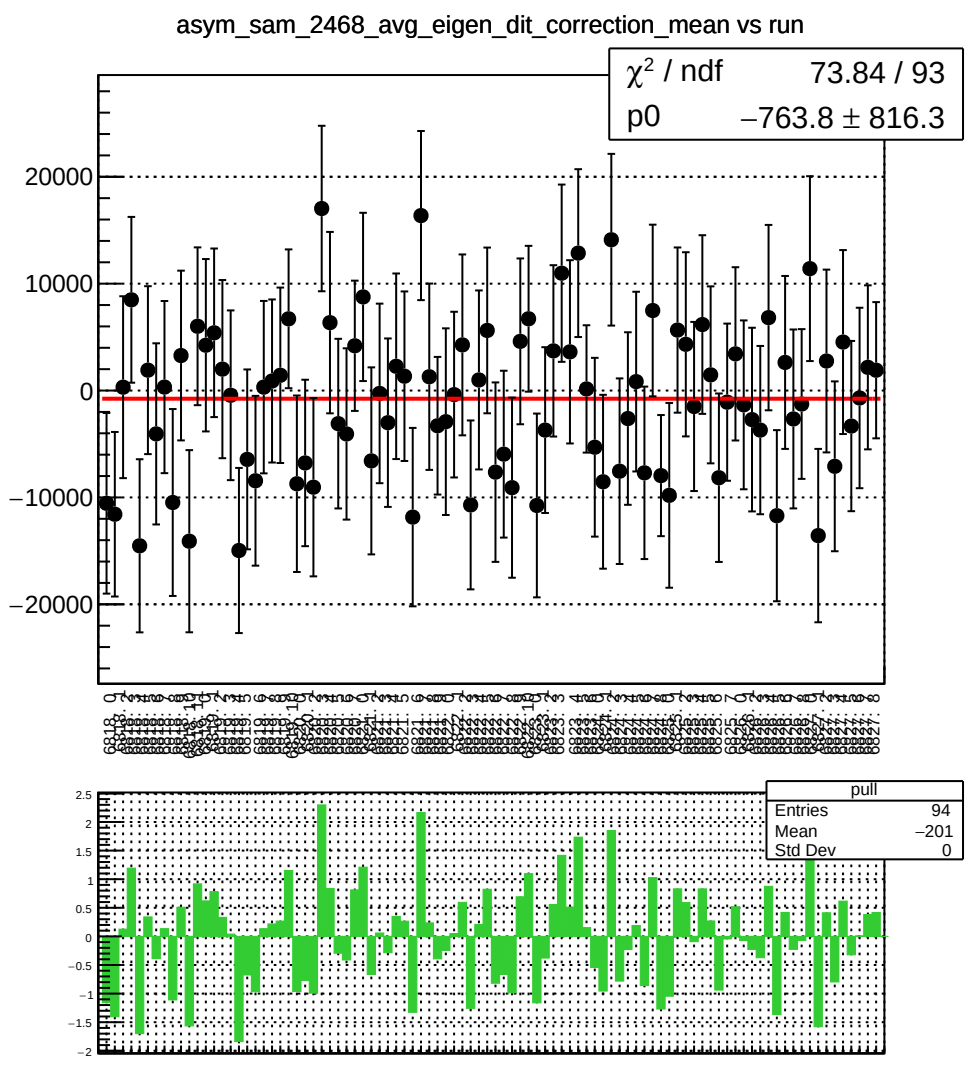

pull1D
Entries 94
Mean −0.007677
Std Dev 0.8862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

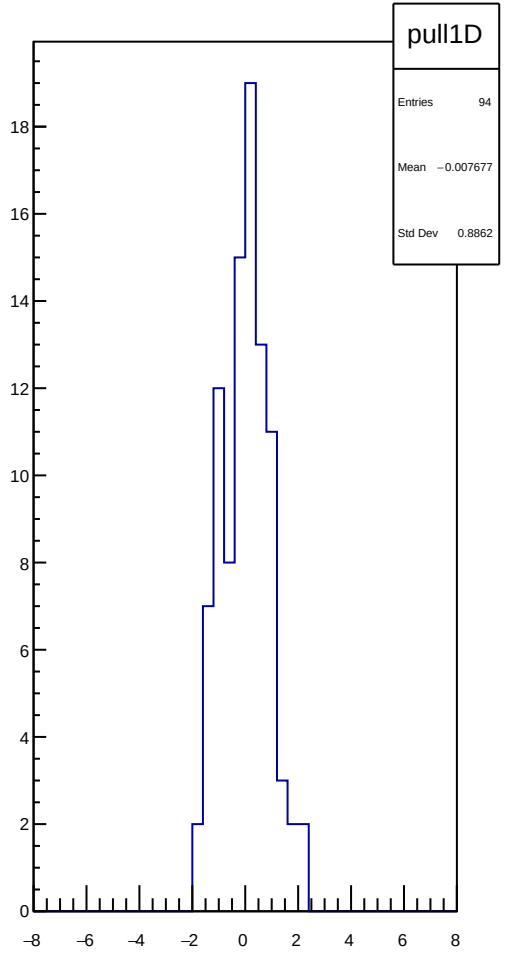

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 2522 / 93
p0 772.8 ± 0.5772
840
820
800
780
760
740
720

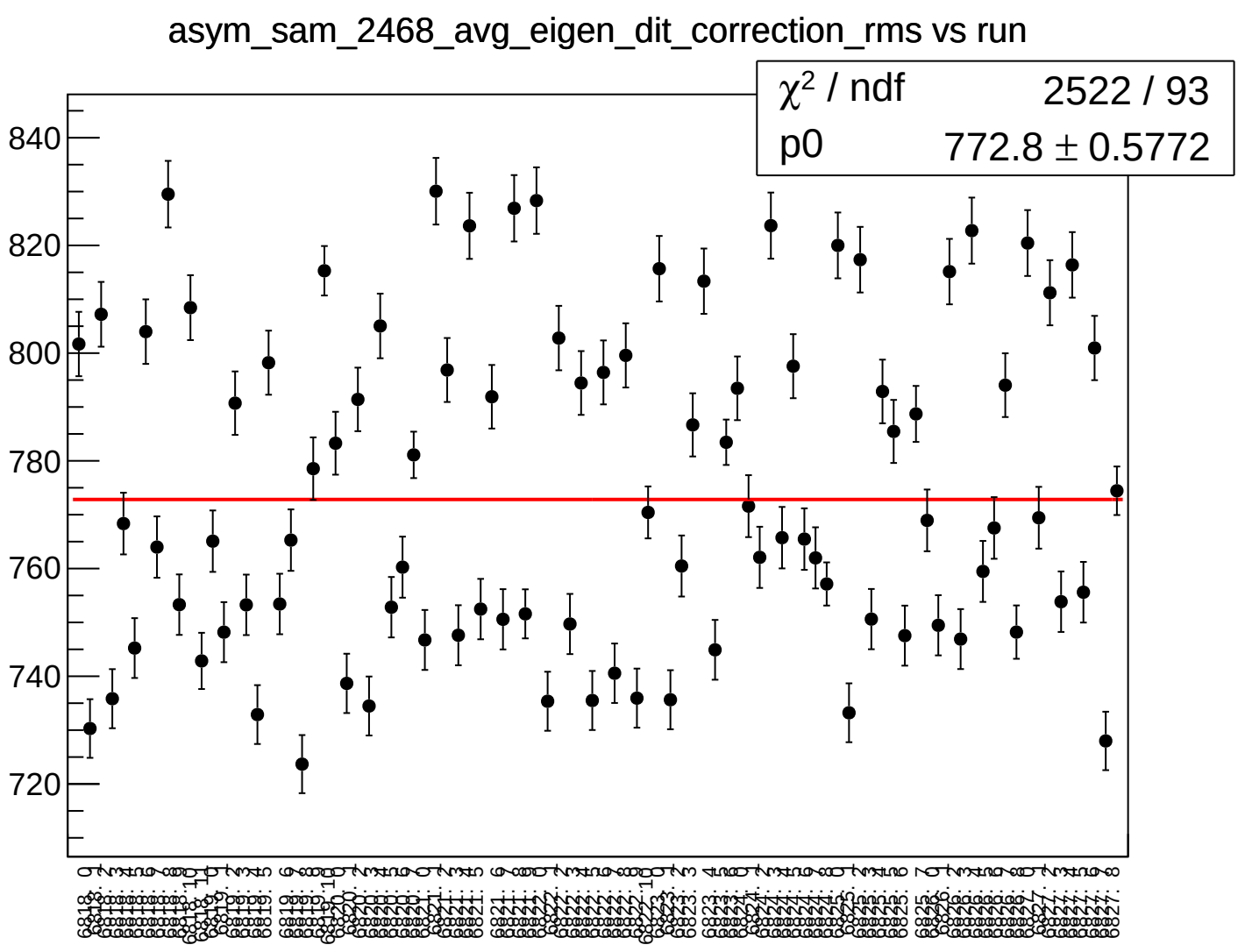

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 71.17 / 93
p0 −124.7 ± 97.54
pull
Entries 94
Mean 377.3
Std Dev 0

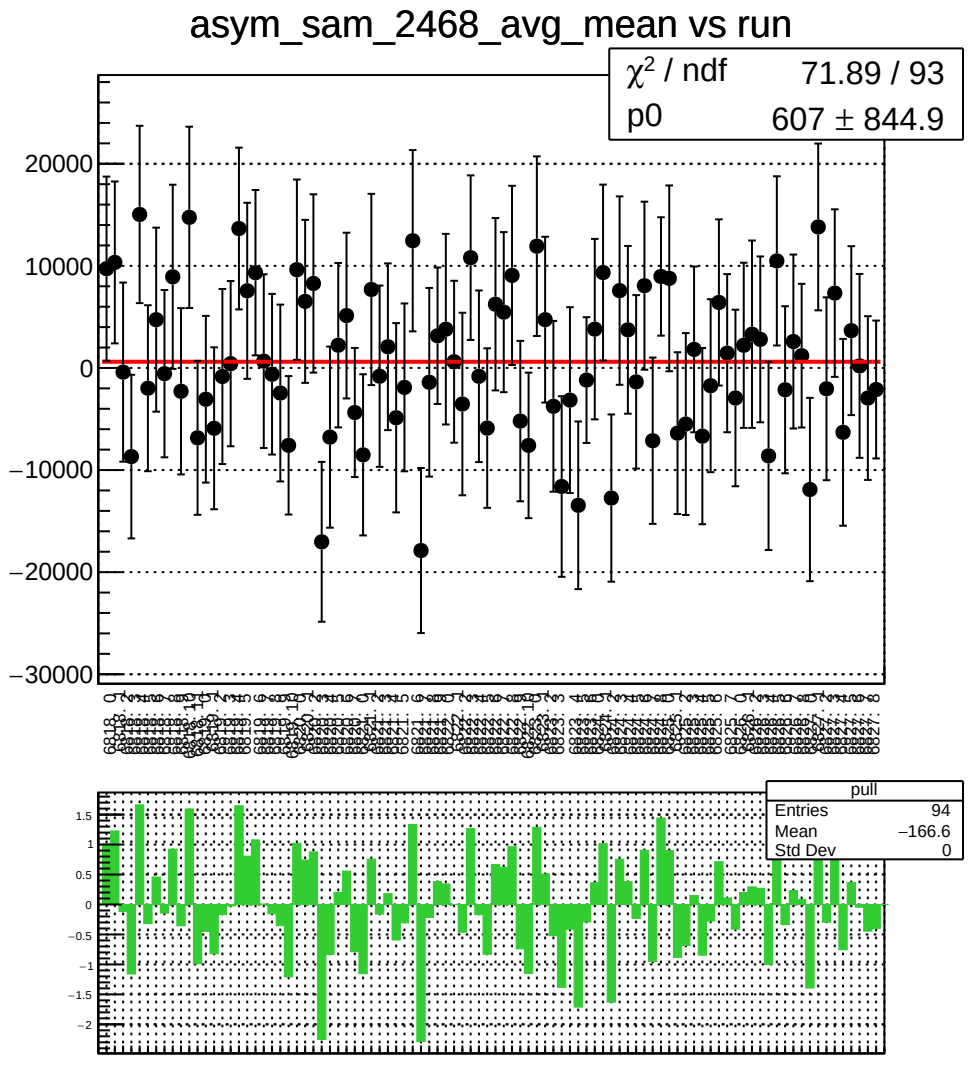

pull1D
Entries 94
Mean −0.003405
Std Dev 0.8701

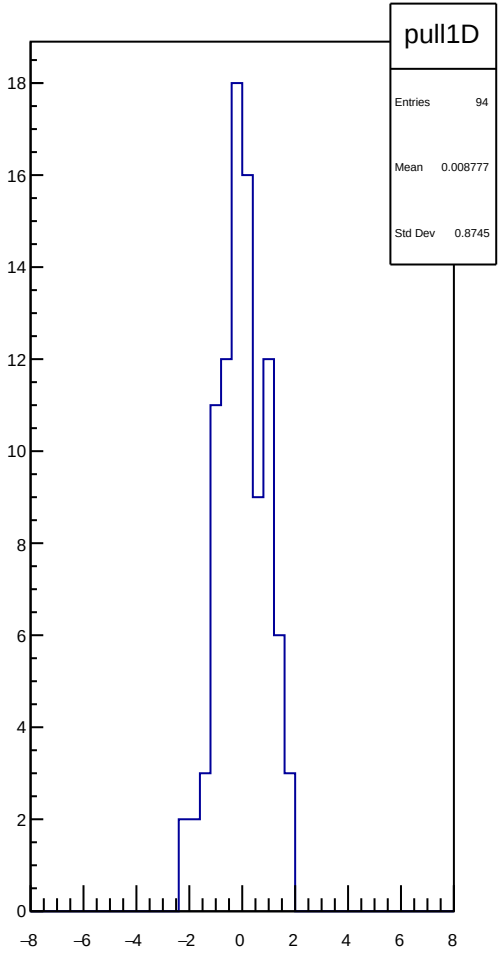

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 1.225e+04 / 93
p0 92.09 ± 0.06897
130
120
110
100
90
80

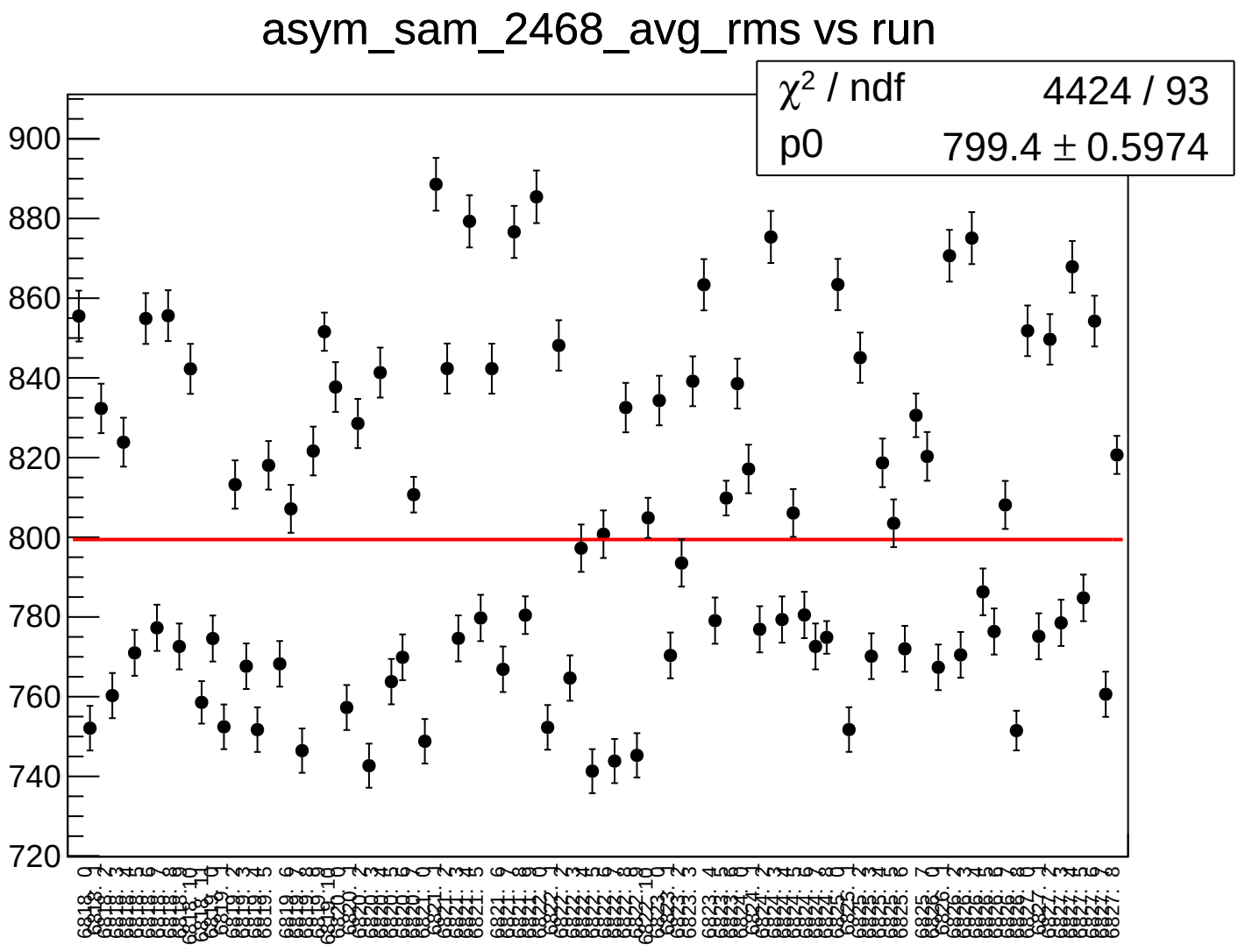

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.84 / 93
p0 −763.8 ± 816.3
20000
10000
0
−10000
−20000
pull
Entries 94
Mean −201
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

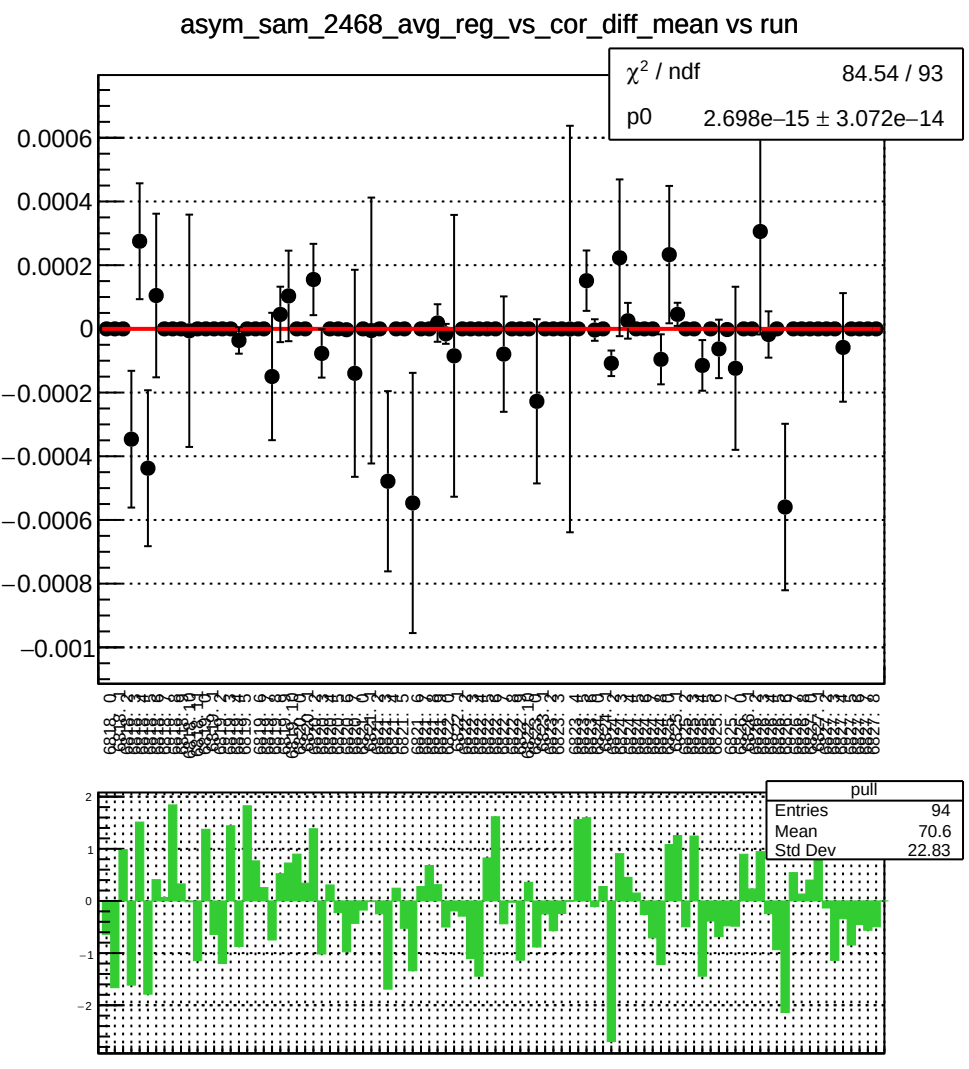

pull1D
Entries 94
Mean −0.007677
Std Dev 0.8862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

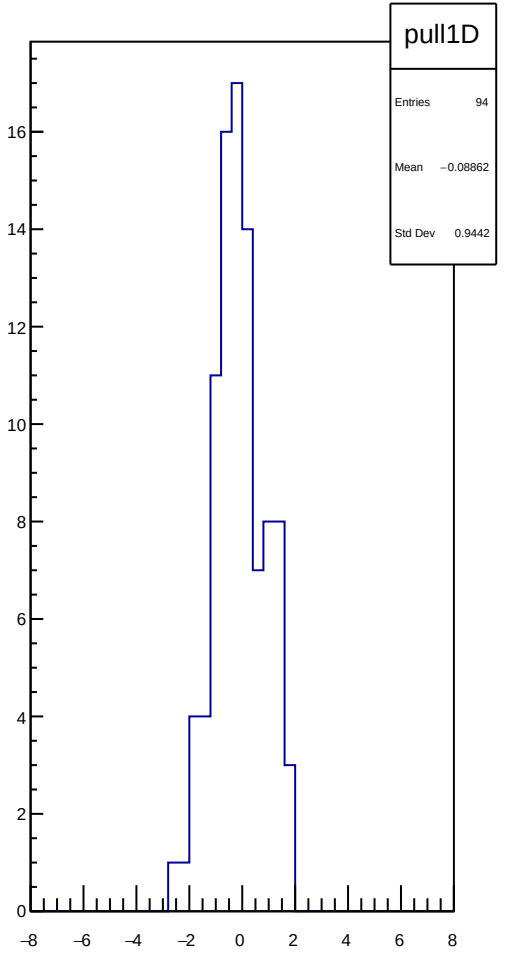

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2522 / 93
p0 772.8 ± 0.5772
840
820
800
780
760
740
720

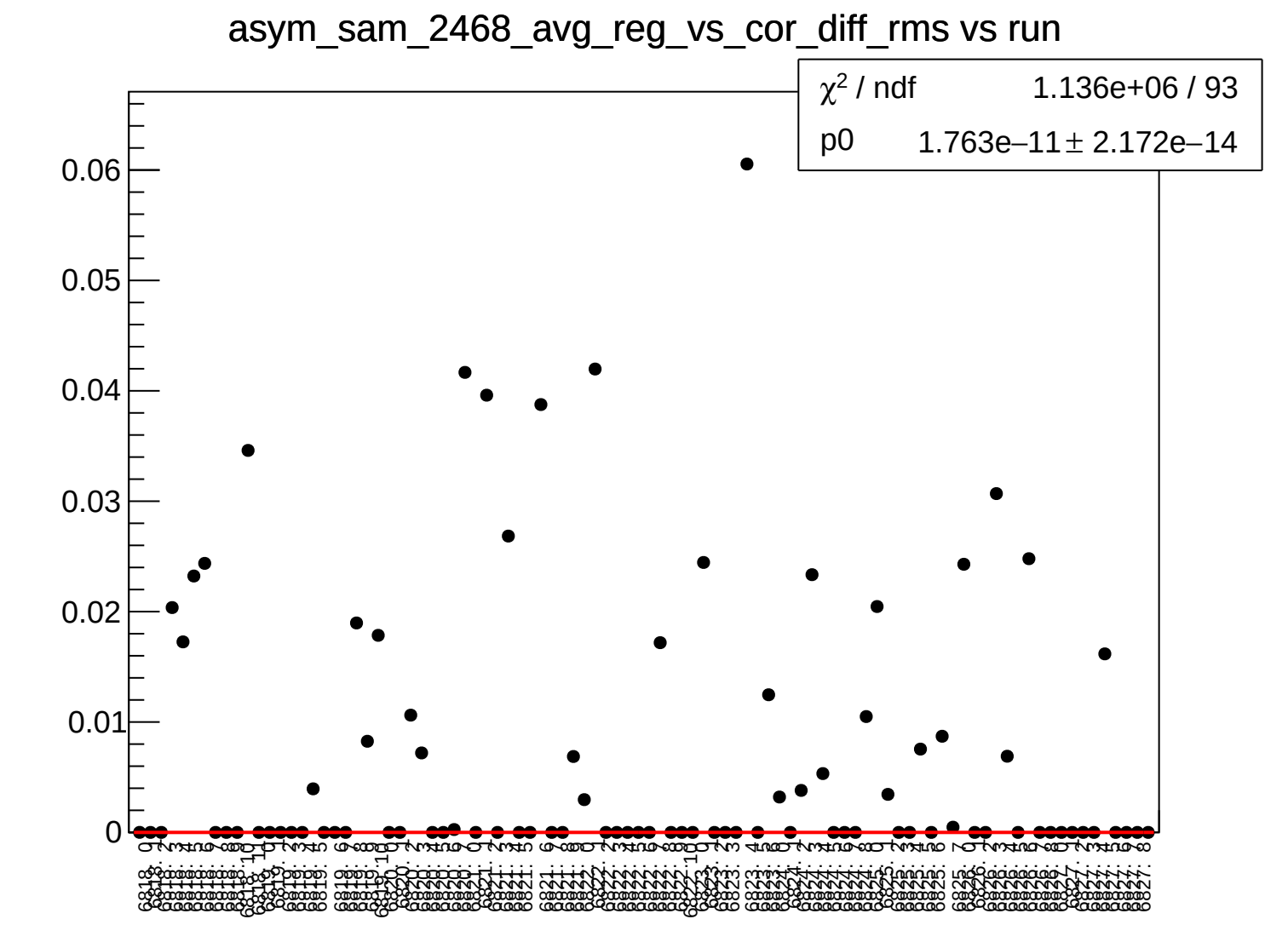

asym_sam_2468_avg_mean vs run
χ² / ndf 71.89 / 93
p0 607 ± 844.9
pull
Entries 94
Mean −166.6
Std Dev 0

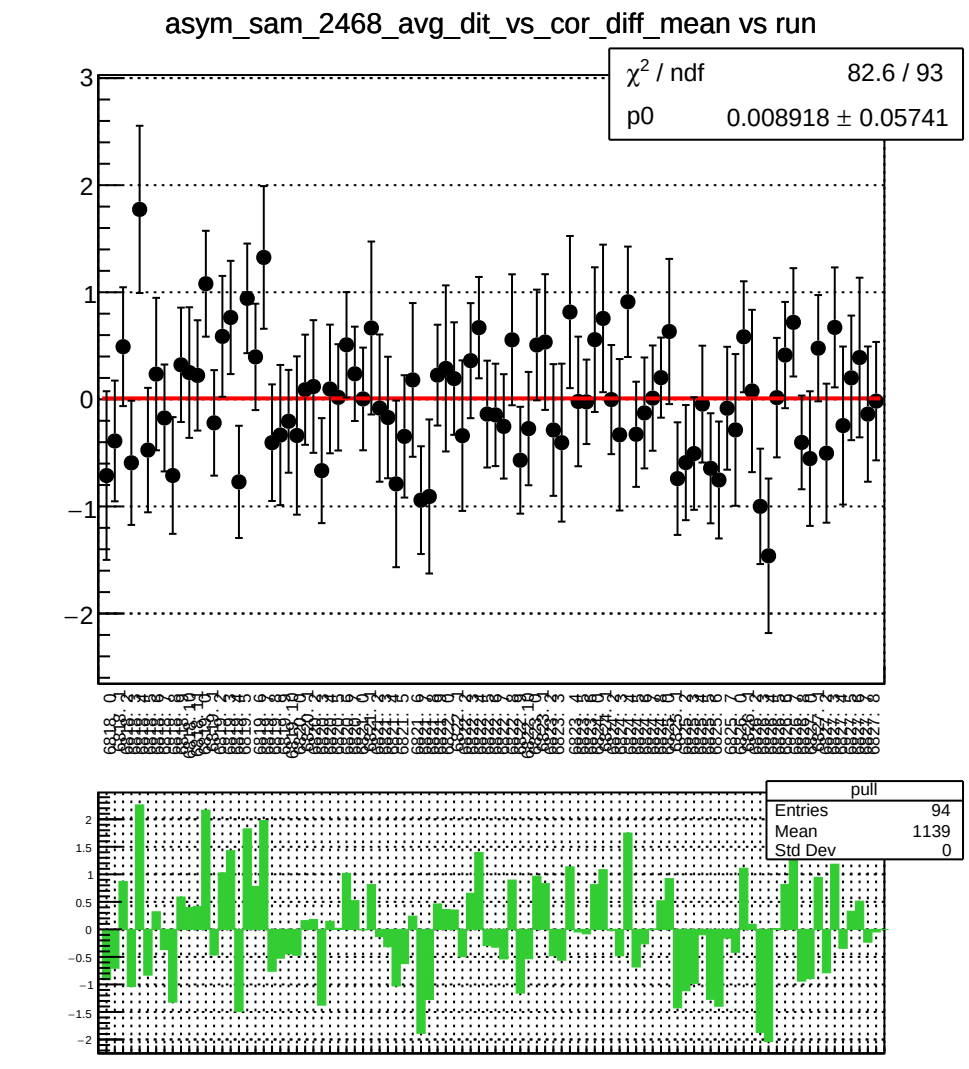

pull1D
Entries 94
Mean 0.008777
Std Dev 0.8745

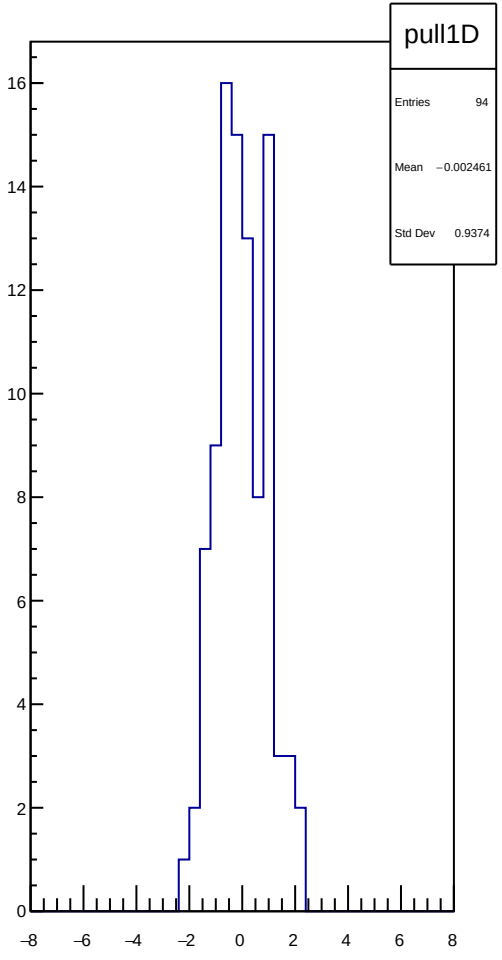

asym_sam_2468_avg_rms vs run
χ² / ndf 4424 / 93
p0 799.4 ± 0.5974
900
880
860
840
820
800
780
760
740
720

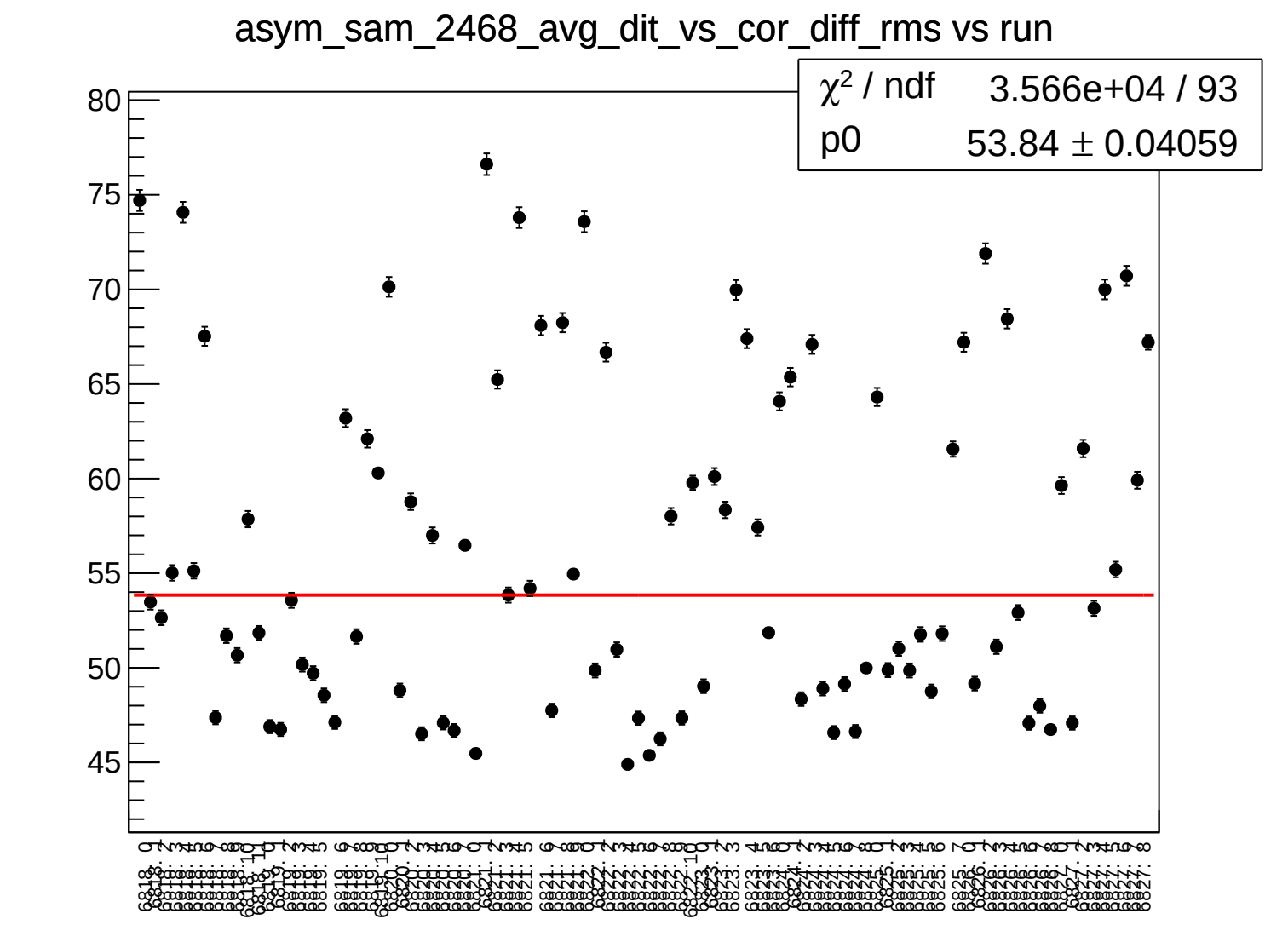

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.54 / 93
p0 2.698e−15 ± 3.072e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 94
Mean 70.6
Std Dev 22.83
2
1
0
−1
−2

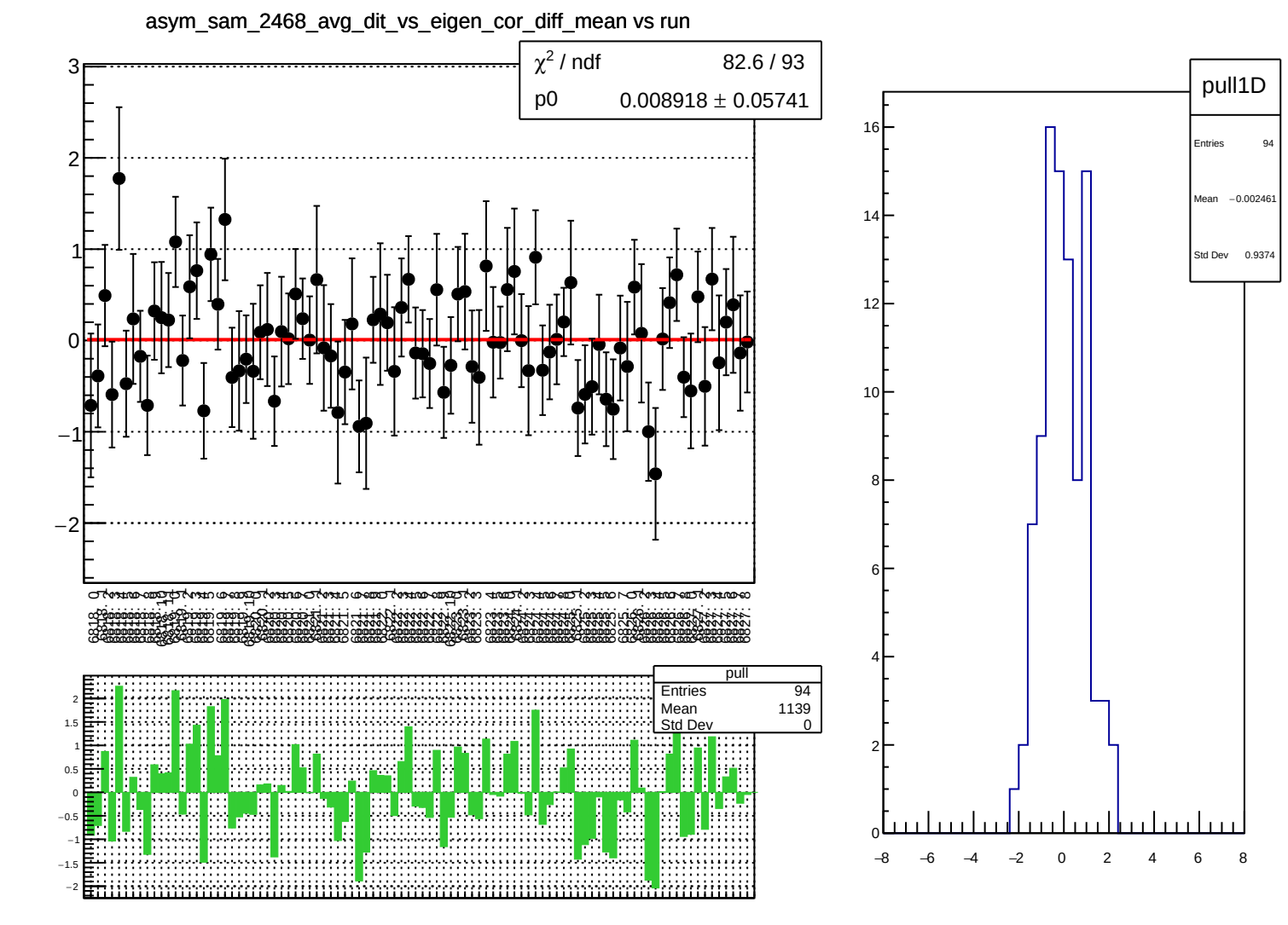

pull1D
Entries 94
Mean −0.08862
Std Dev 0.9442
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

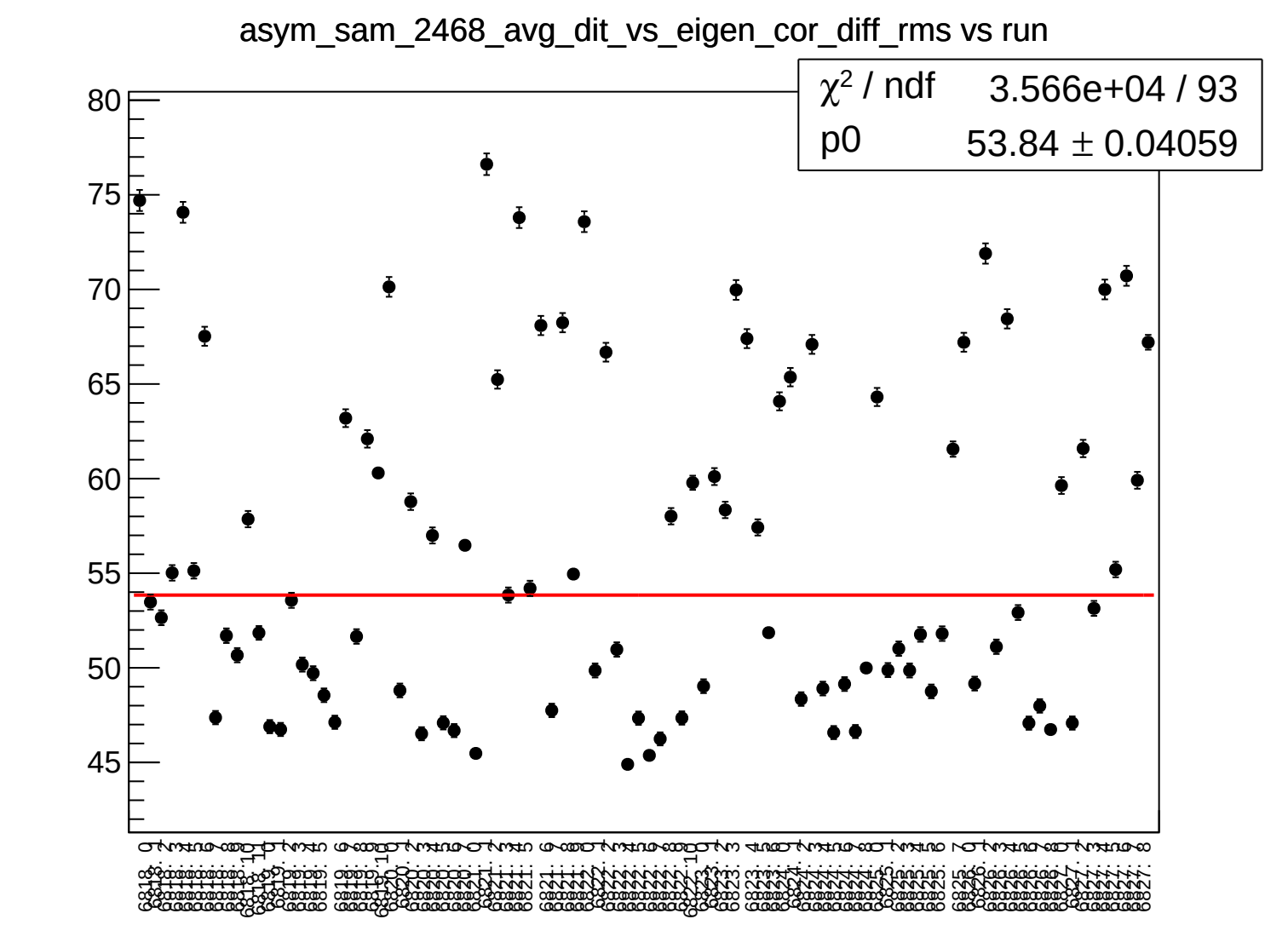

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.136e+06 / 93
p0 1.763e−11 ± 2.172e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

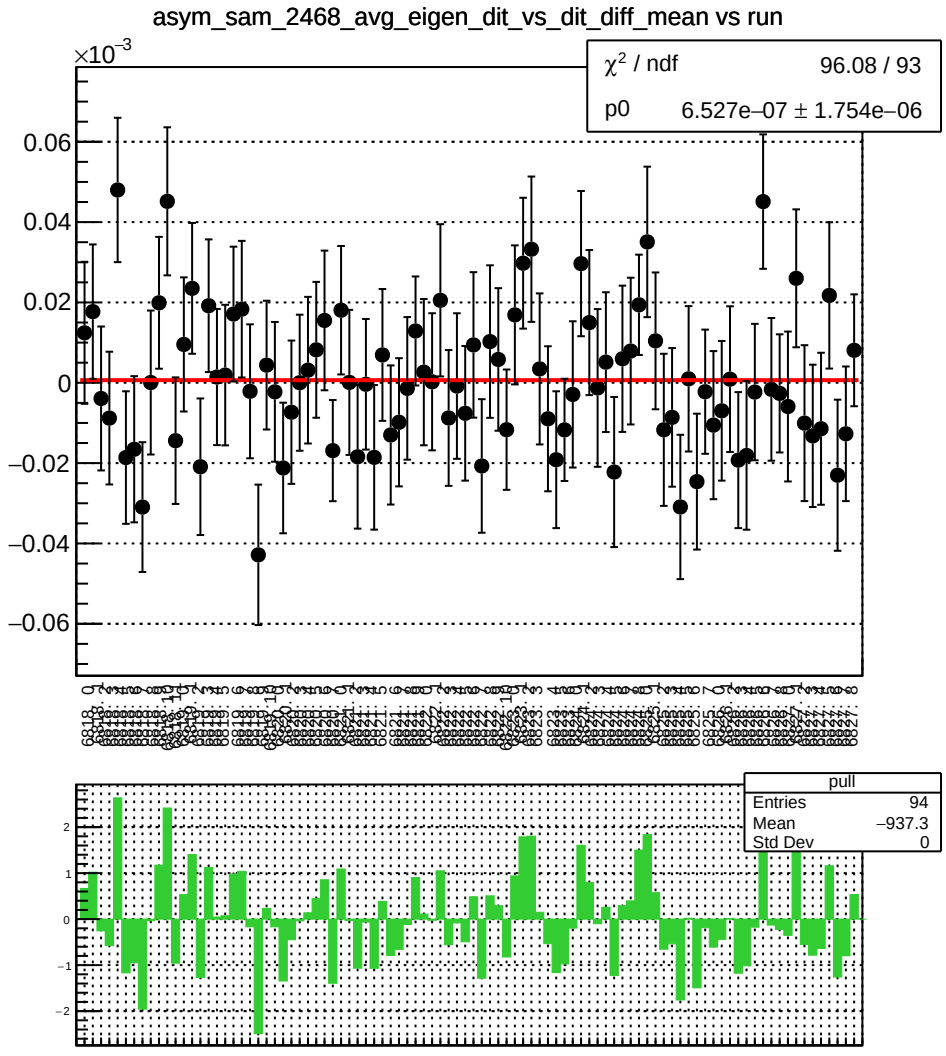

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.6 / 93
p0 0.008918 ± 0.05741
pull
Entries 94
Mean 1139
Std Dev 0

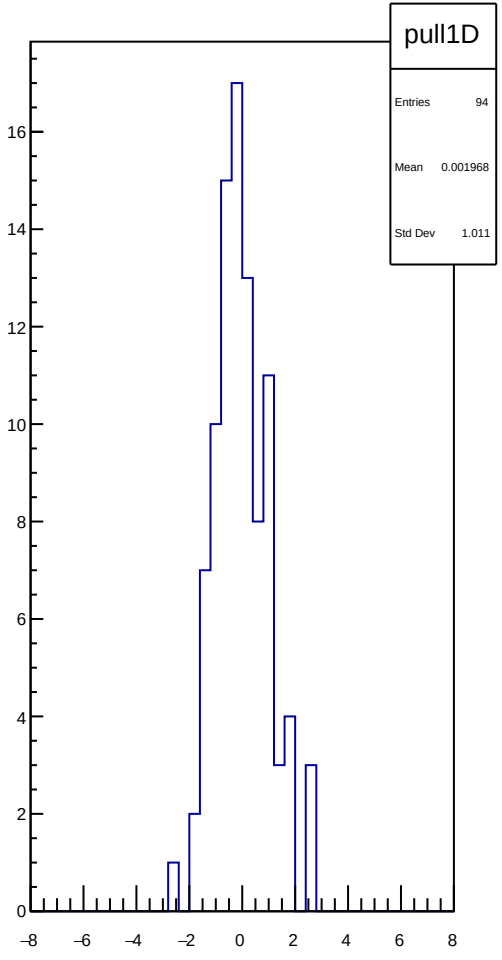

pull1D
Entries 94
Mean −0.002461
Std Dev 0.9374

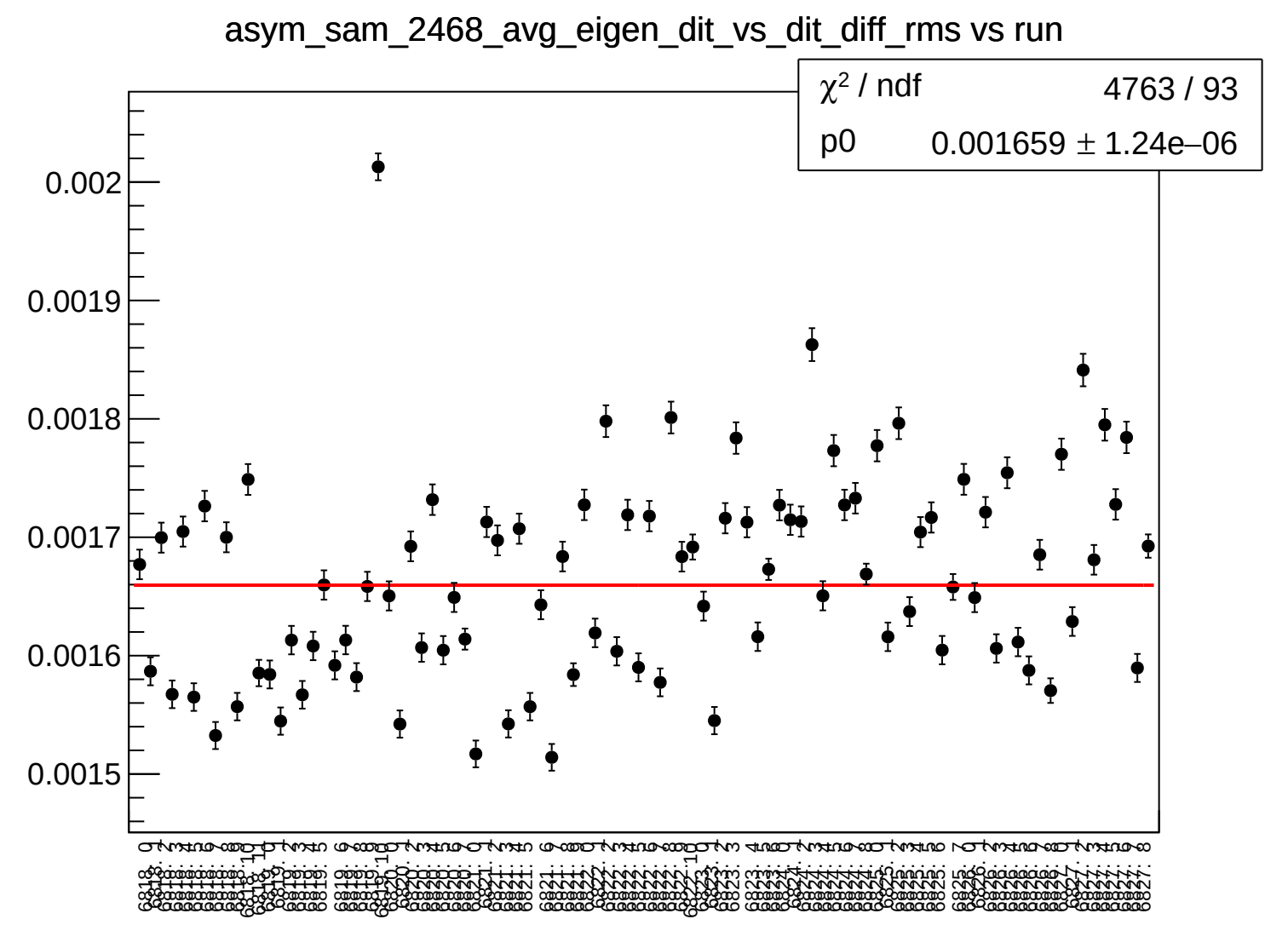

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.566e+04 / 93
p0 53.84 ± 0.04059
80
75
70
65
60
55
50
45

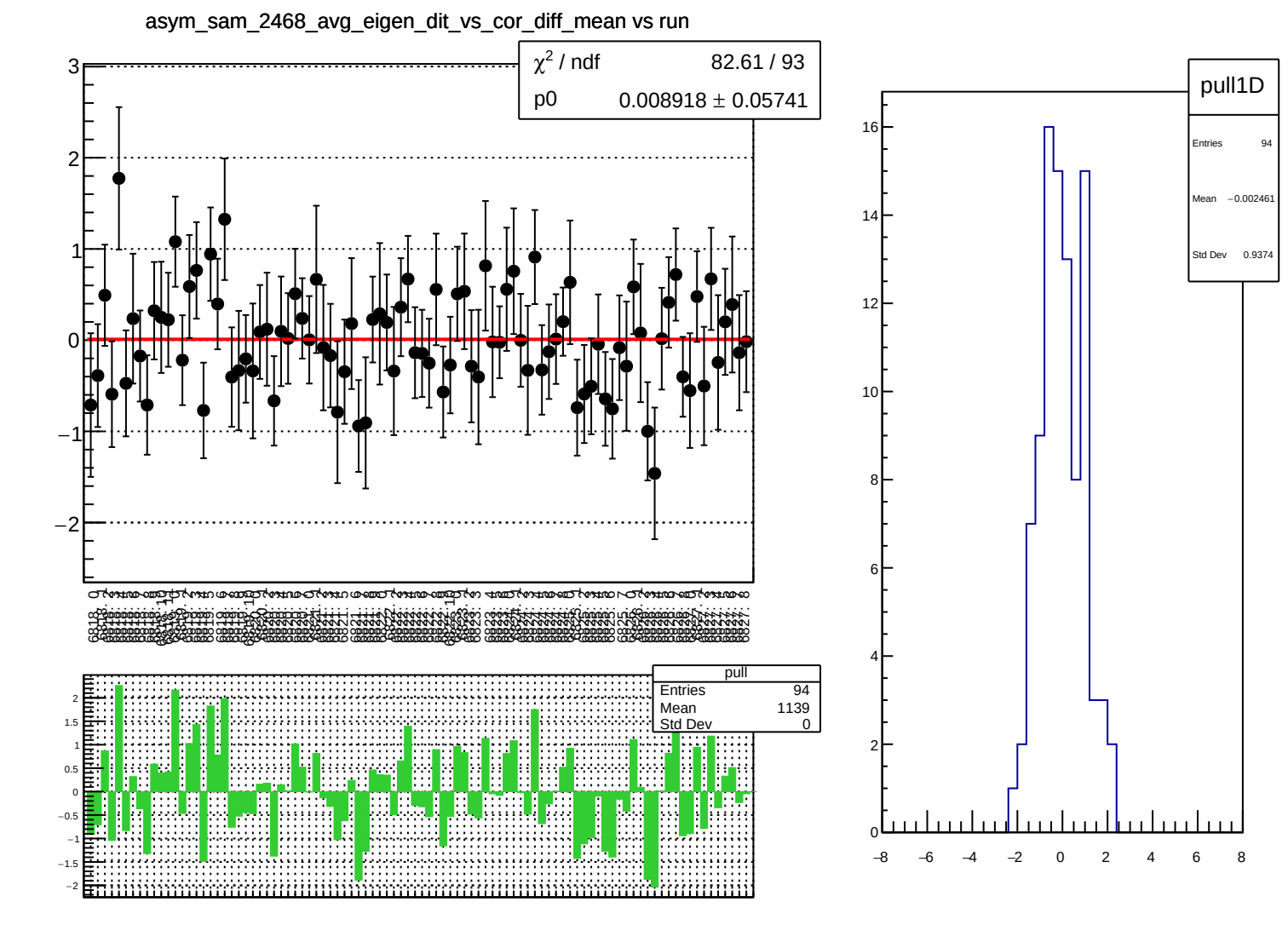

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.6 / 93
p0 0.008918 ± 0.05741
pull
Entries 94
Mean 1139
Std Dev 0
pull1D
Entries 94
Mean −0.002461
Std Dev 0.9374

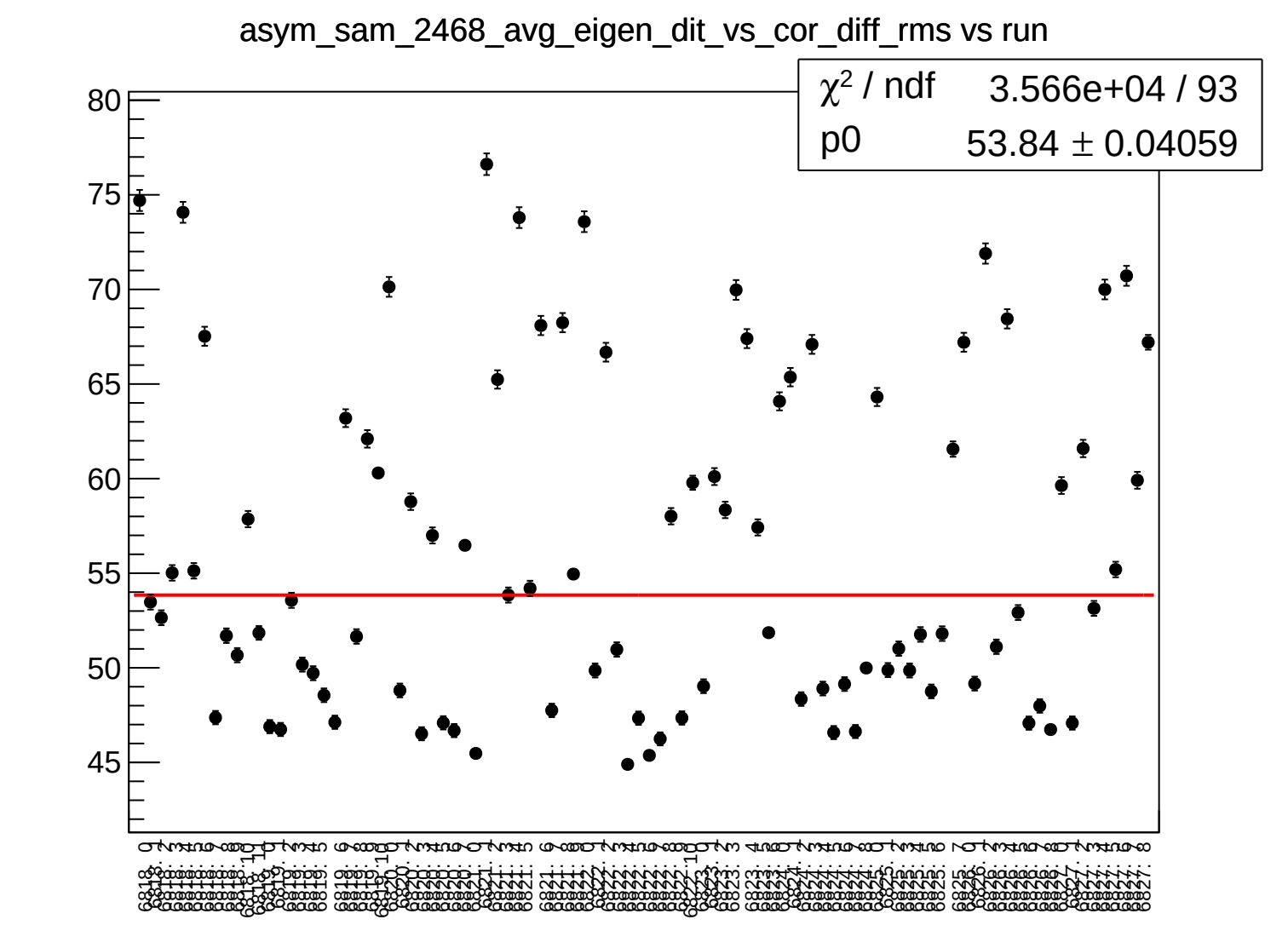

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.566e+04 / 93
p0 53.84 ± 0.04059
80
75
70
65
60
55
50
45

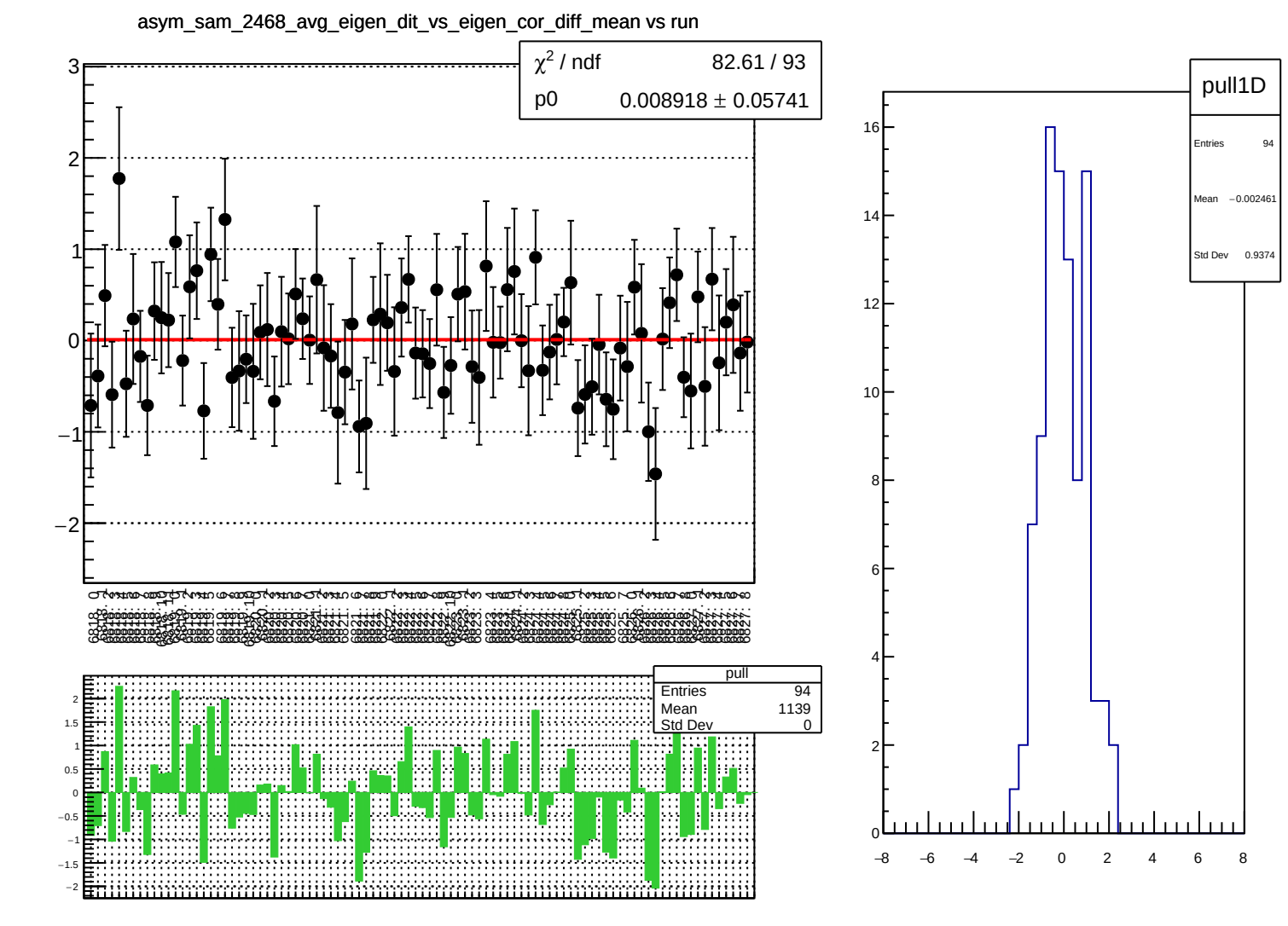

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.08 / 93
p0 6.527e−07 ± 1.754e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −937.3
Std Dev 0
2
1
0
−1
−2

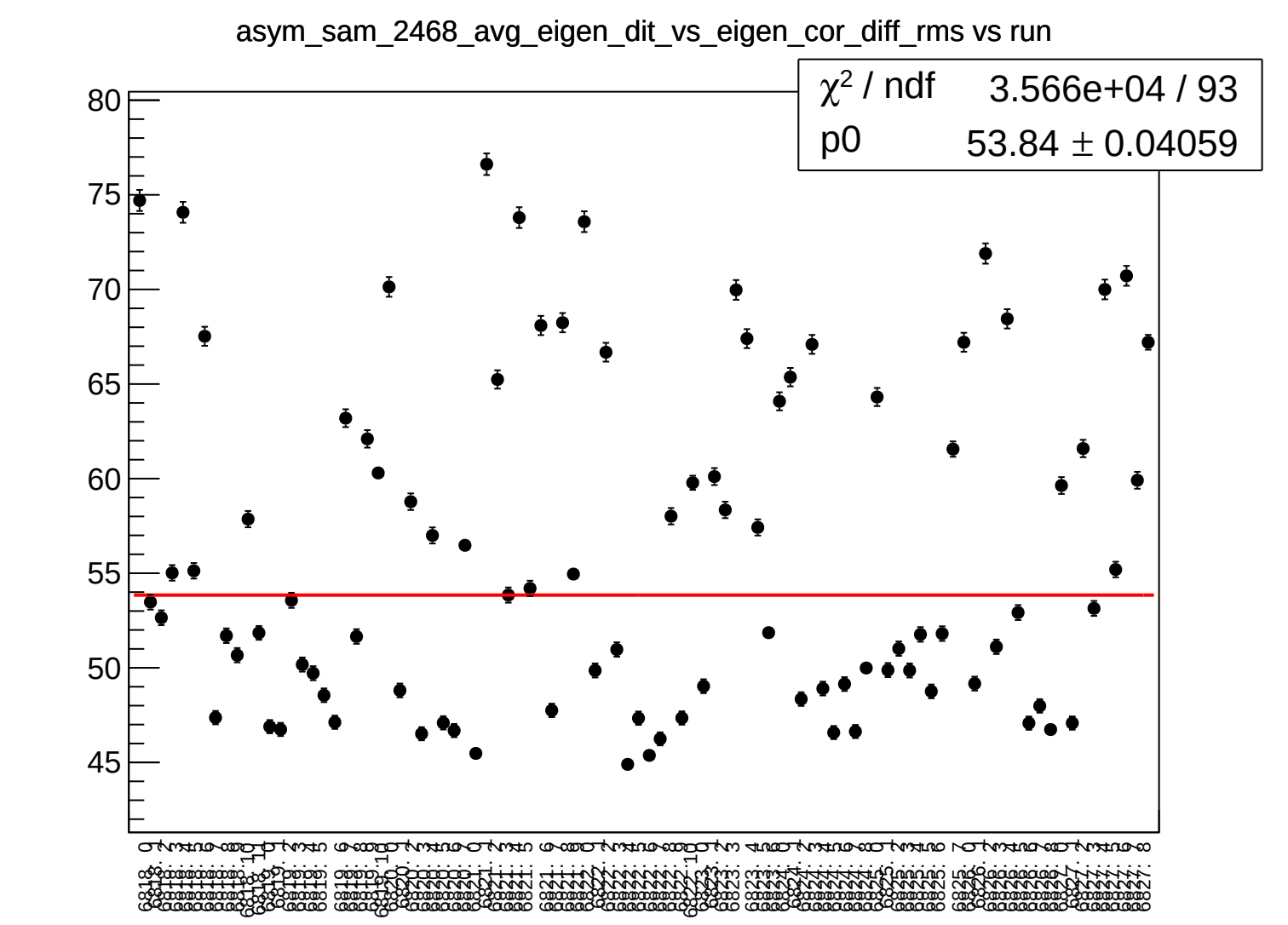

pull1D
Entries 94
Mean 0.001968
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

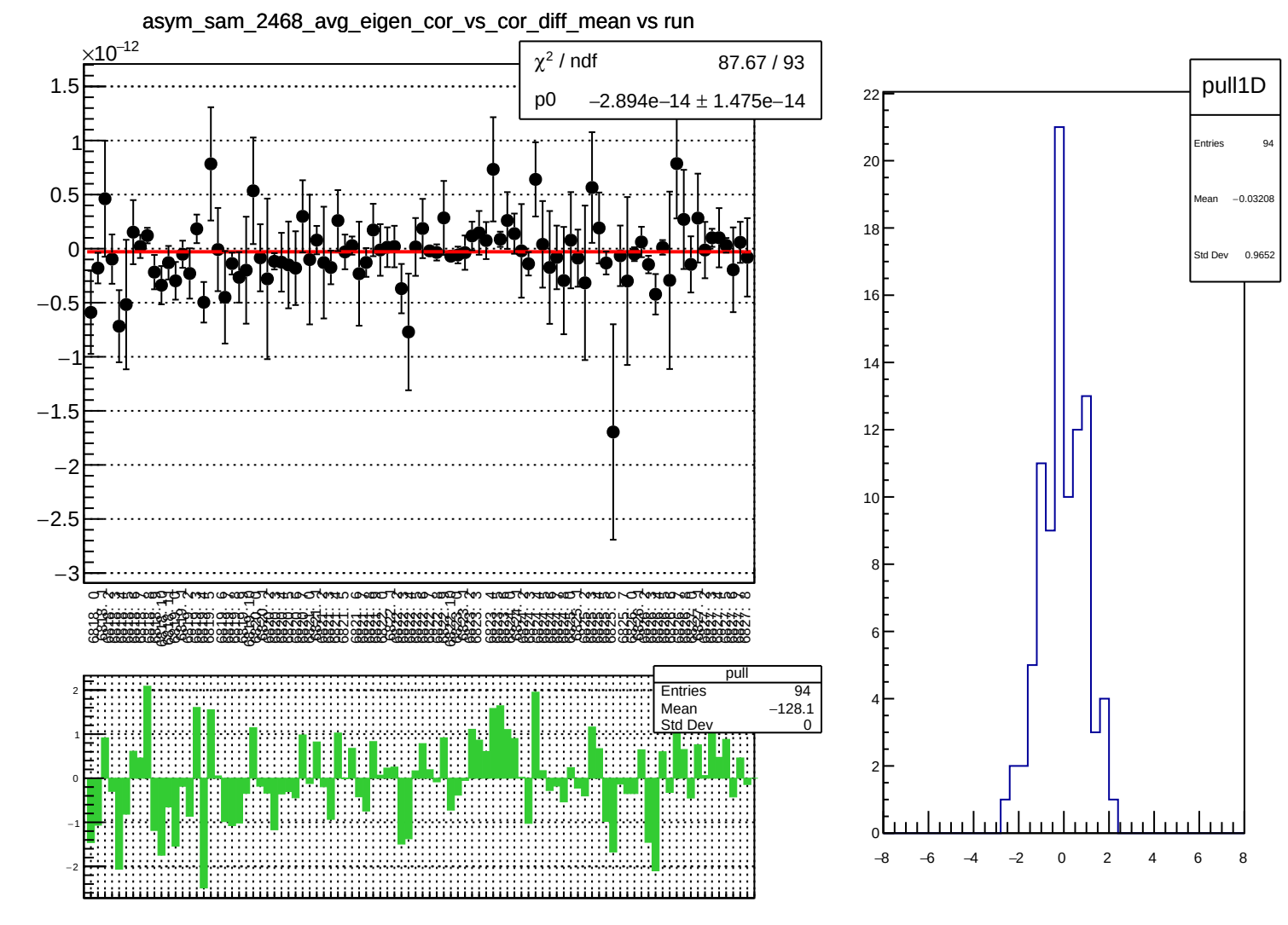

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4763 / 93
p0 0.001659 ± 1.24e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

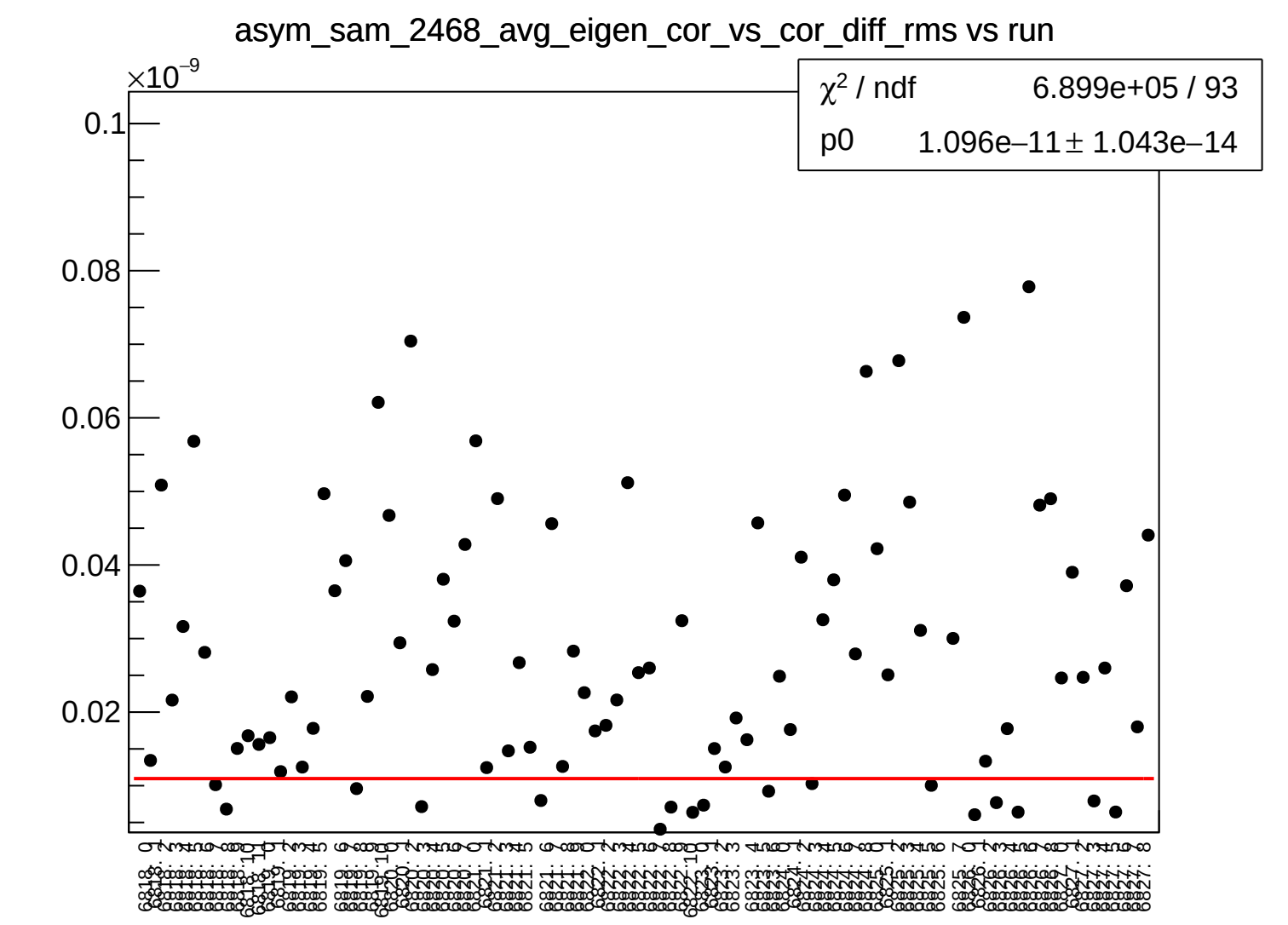

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 0.008918 ± 0.05741
pull
Entries 94
Mean 1139
Std Dev 0
pull1D
Entries 94
Mean −0.002461
Std Dev 0.9374

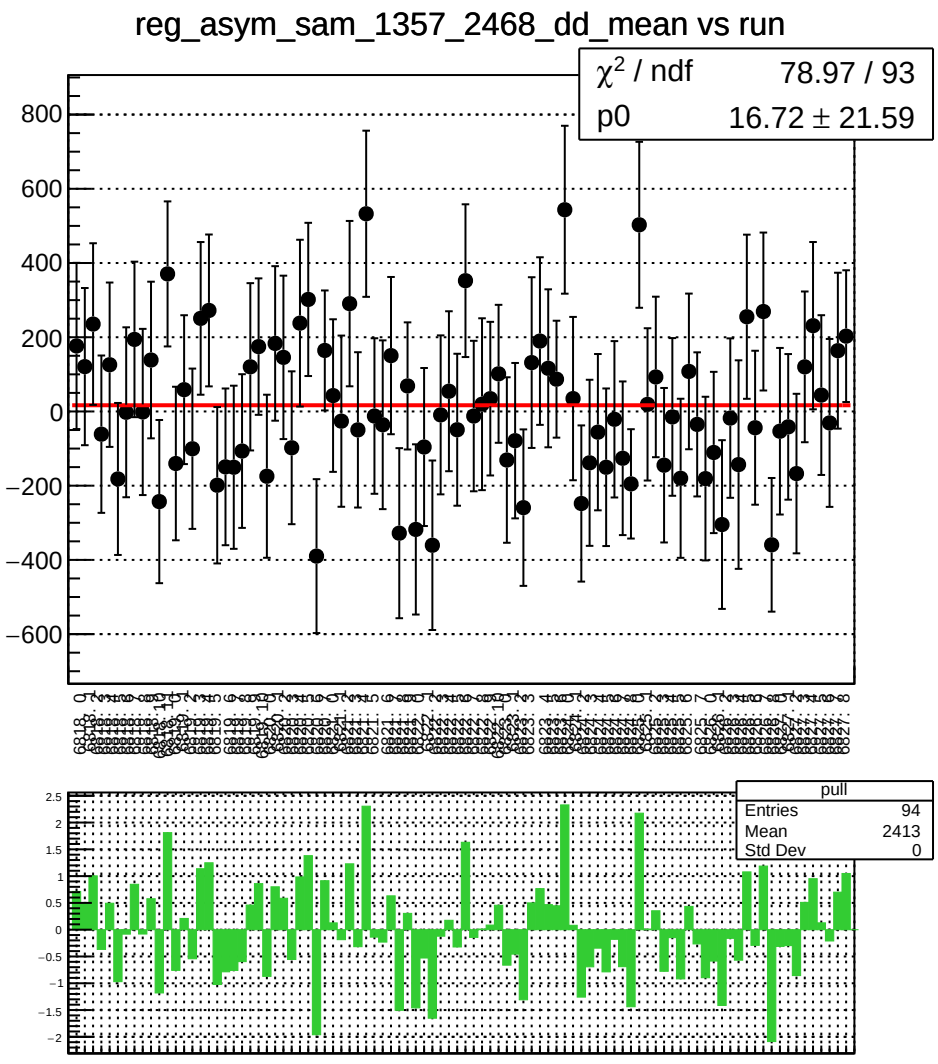

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.566e+04 / 93
p0 53.84 ± 0.04059
80
75
70
65
60
55
50
45

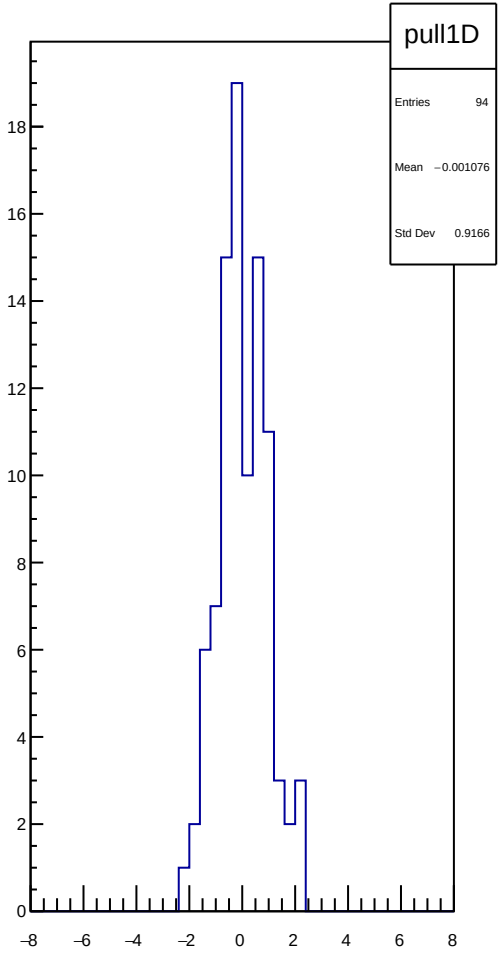

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.61 / 93
p0 0.008918 ± 0.05741
pull
Entries 94
Mean 1139
Std Dev 0
pull1D
Entries 94
Mean −0.002461
Std Dev 0.9374

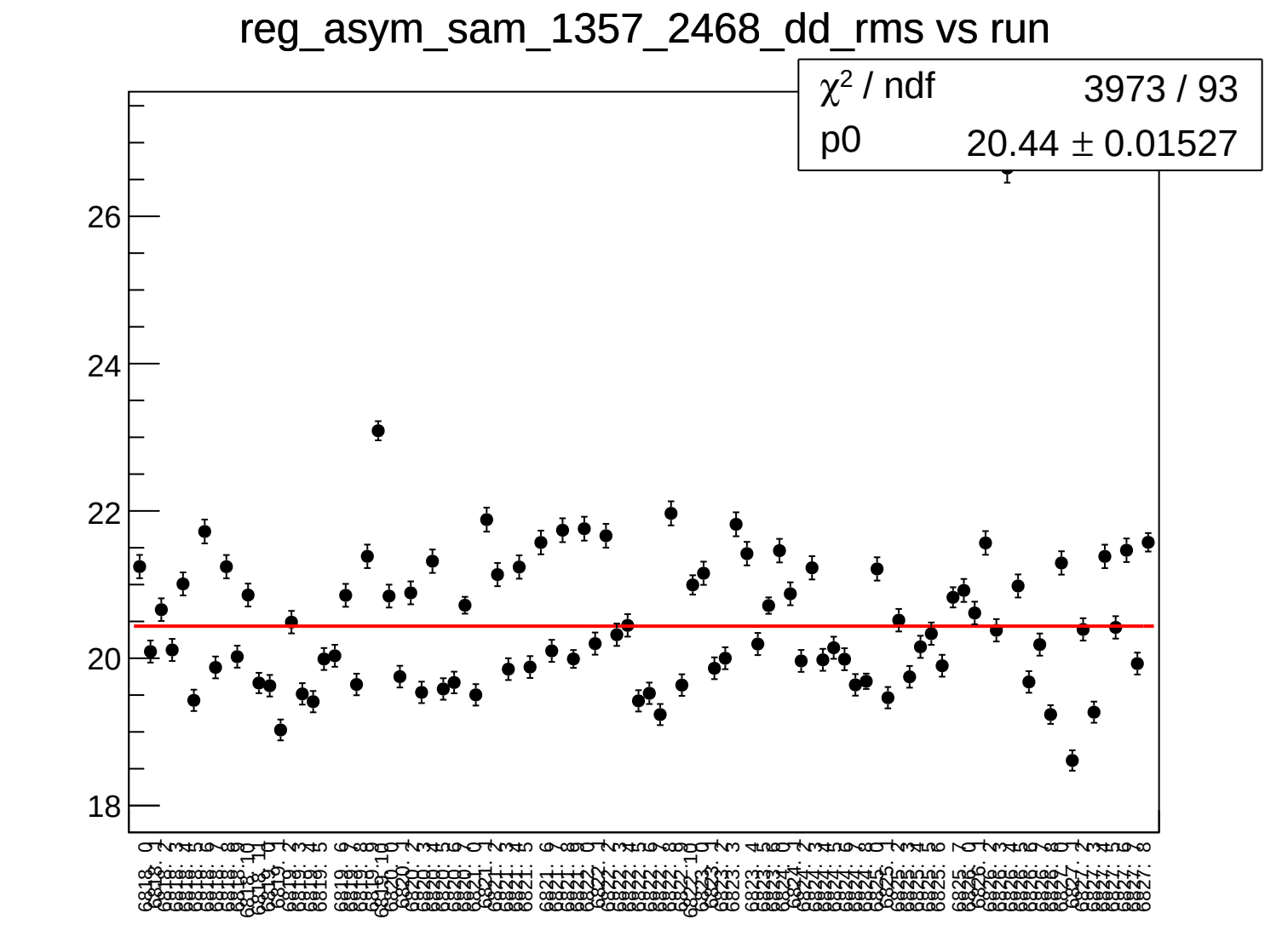

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.566e+04 / 93
p0 53.84 ± 0.04059
80
75
70
65
60
55
50
45

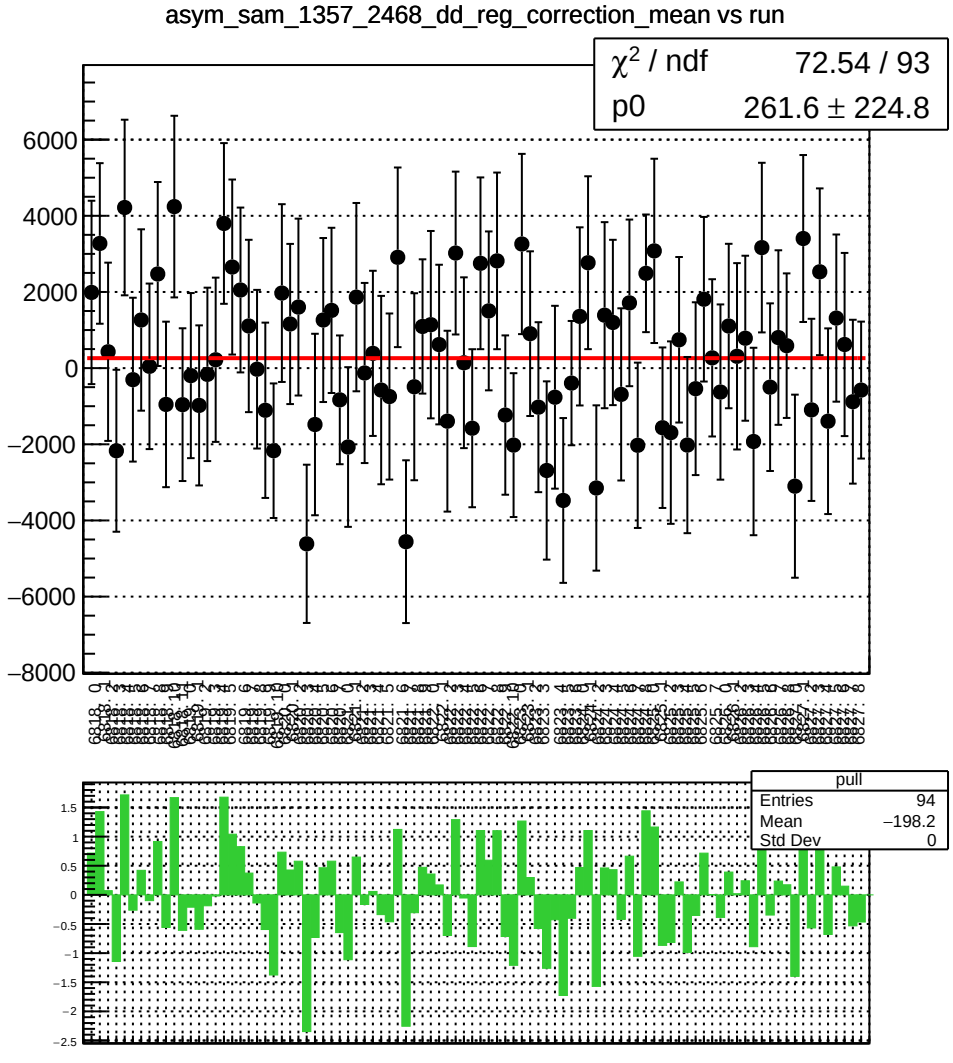

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.67 / 93
p0 −2.894e−14 ± 1.475e−14
pull
Entries 94
Mean −128.1
Std Dev 0
pull1D
Entries 94
Mean −0.03208
Std Dev 0.9652

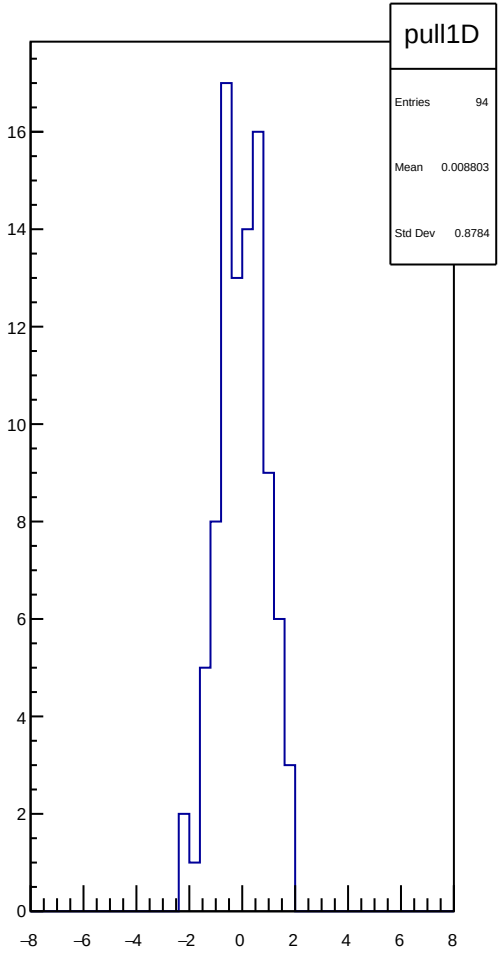

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.899e+05 / 93
p0 1.096e−11 ± 1.043e−14
0.1
0.08
0.06
0.04
0.02

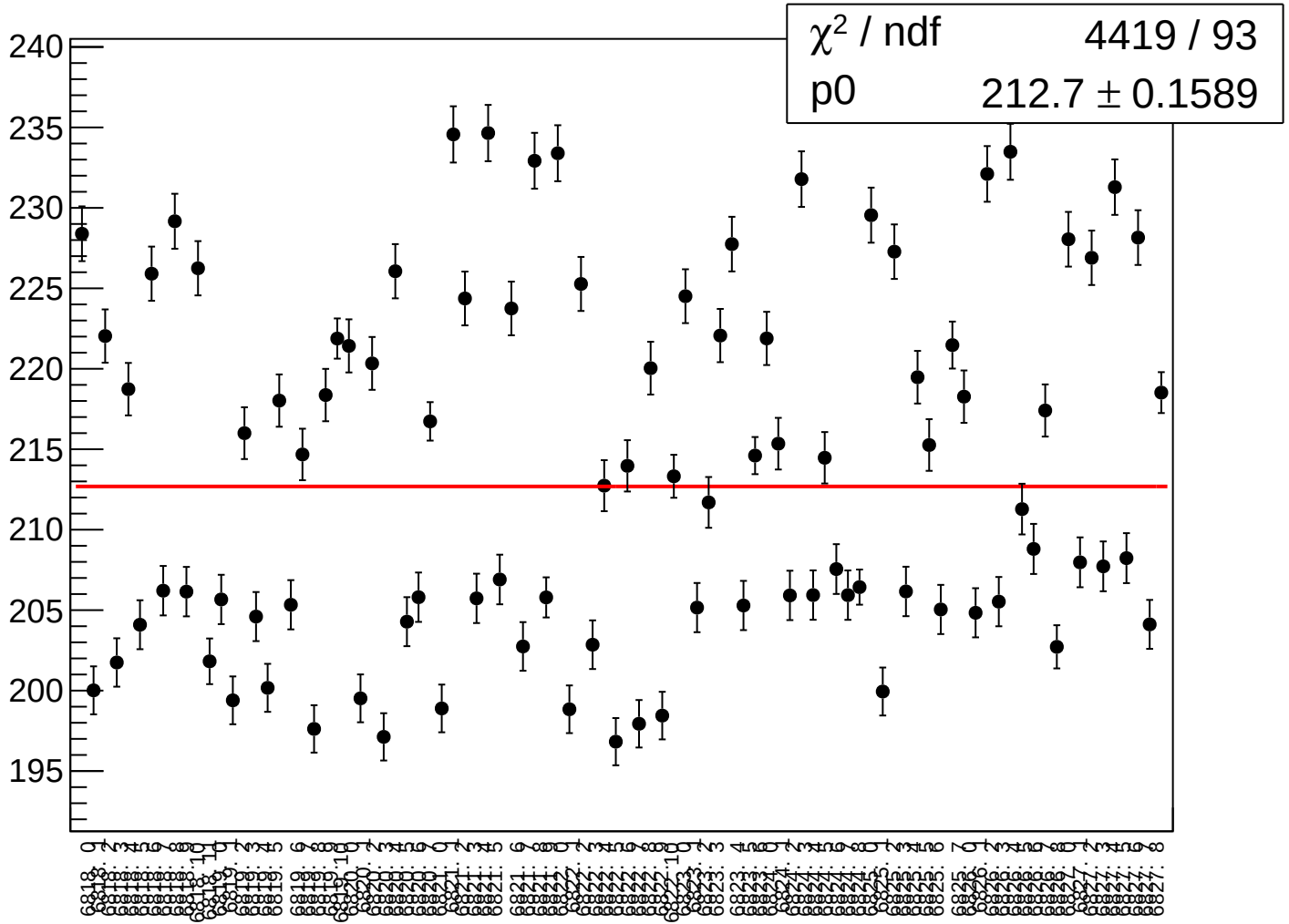

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.97 / 93
p0 16.72 ± 21.59
pull
Entries 94
Mean 2413
Std Dev 0

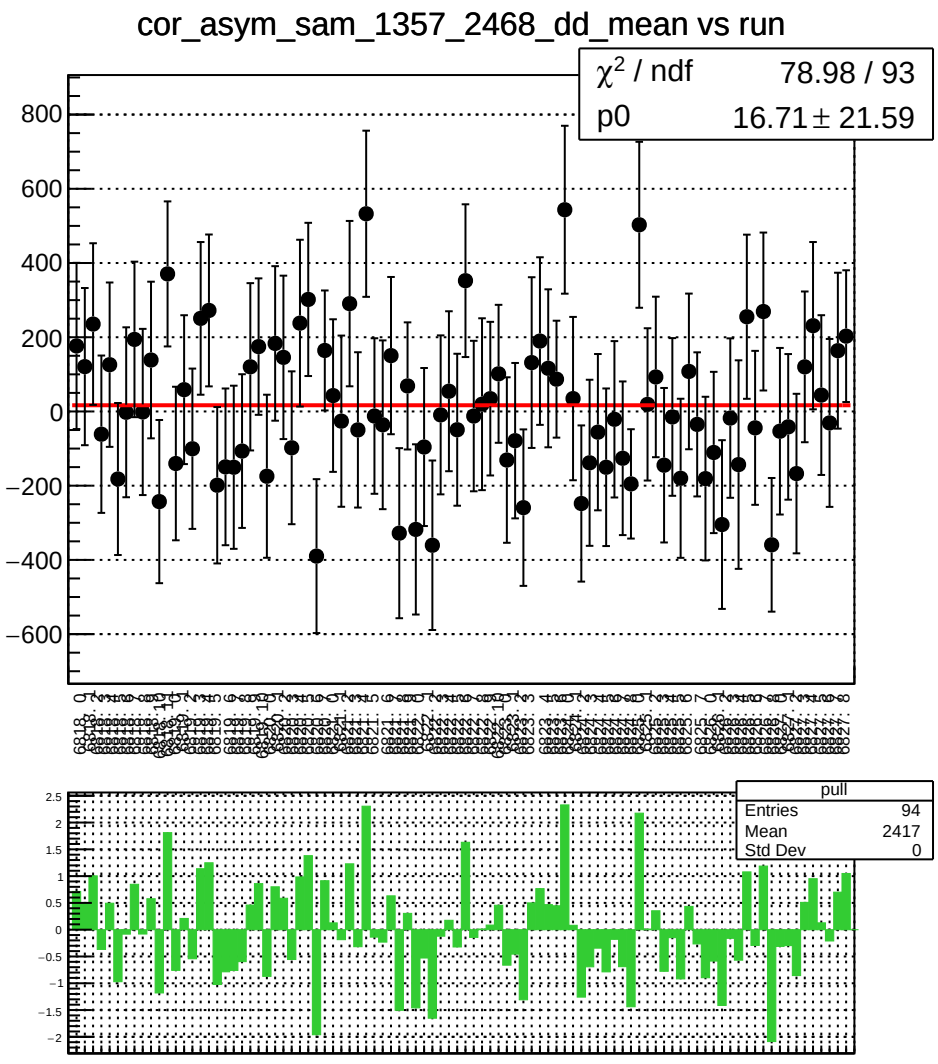

pull1D
Entries 94
Mean −0.001076
Std Dev 0.9166

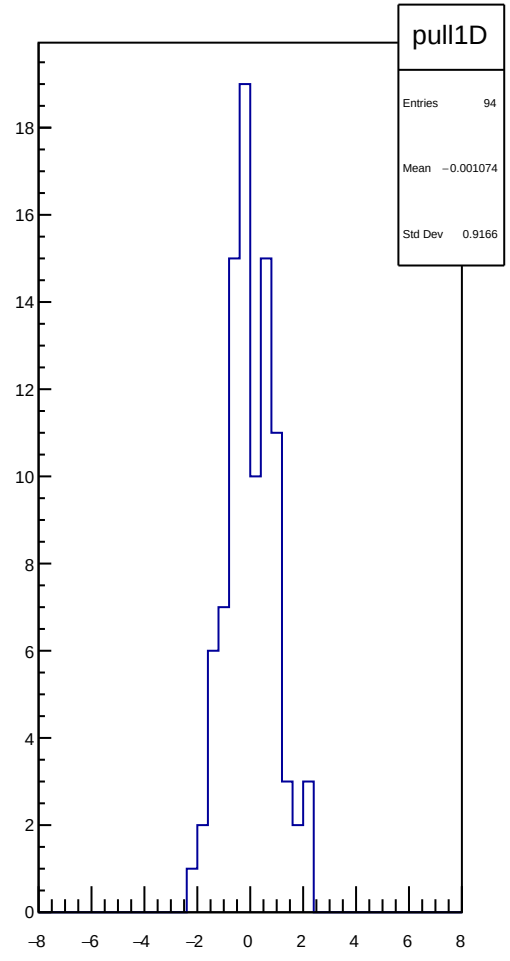

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3973 / 93
p0 20.44 ± 0.01527
26
24
22
20
18

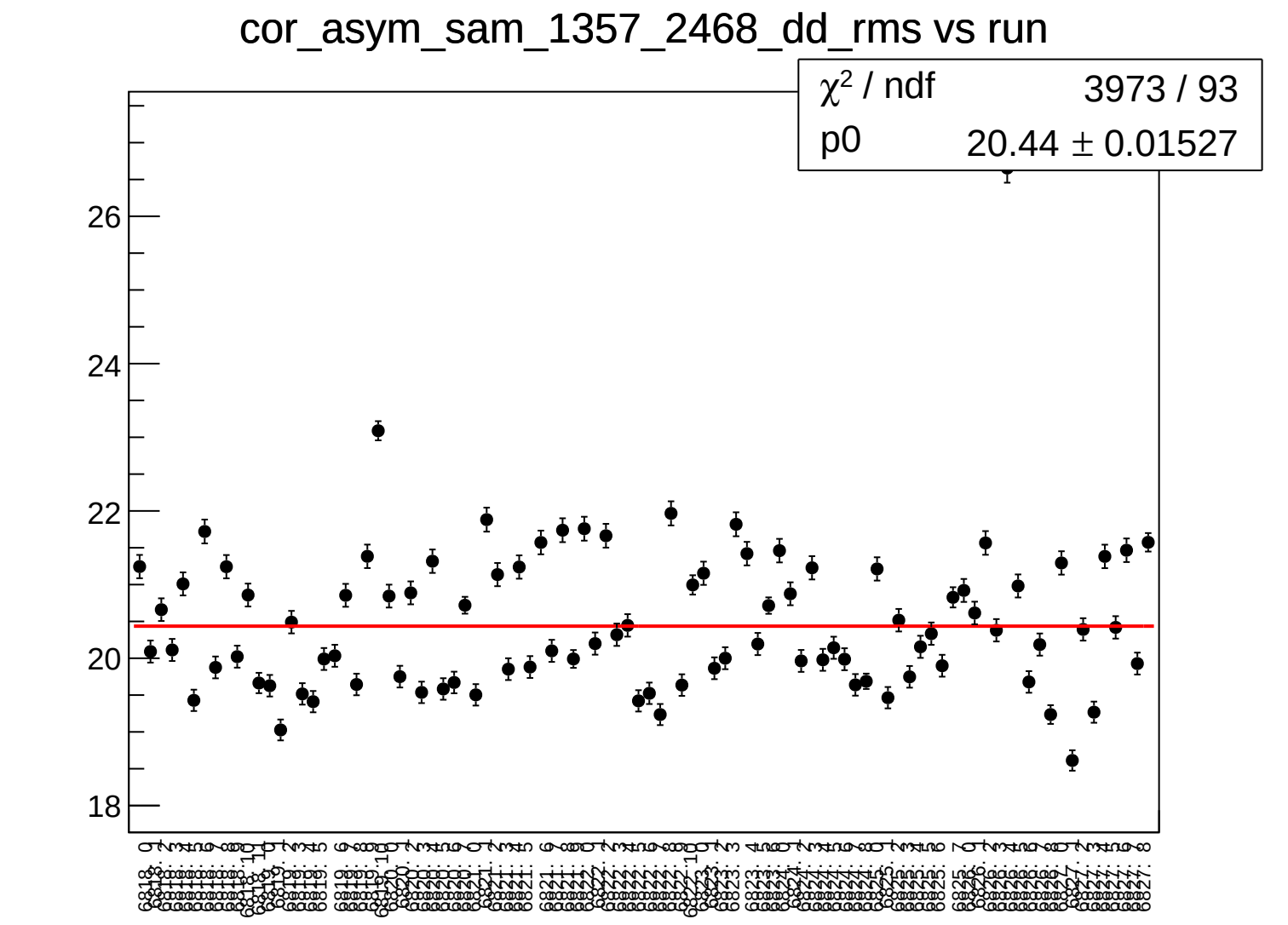

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 72.54 / 93
p0 261.6 ± 224.8
pull
Entries 94
Mean −198.2
Std Dev 0

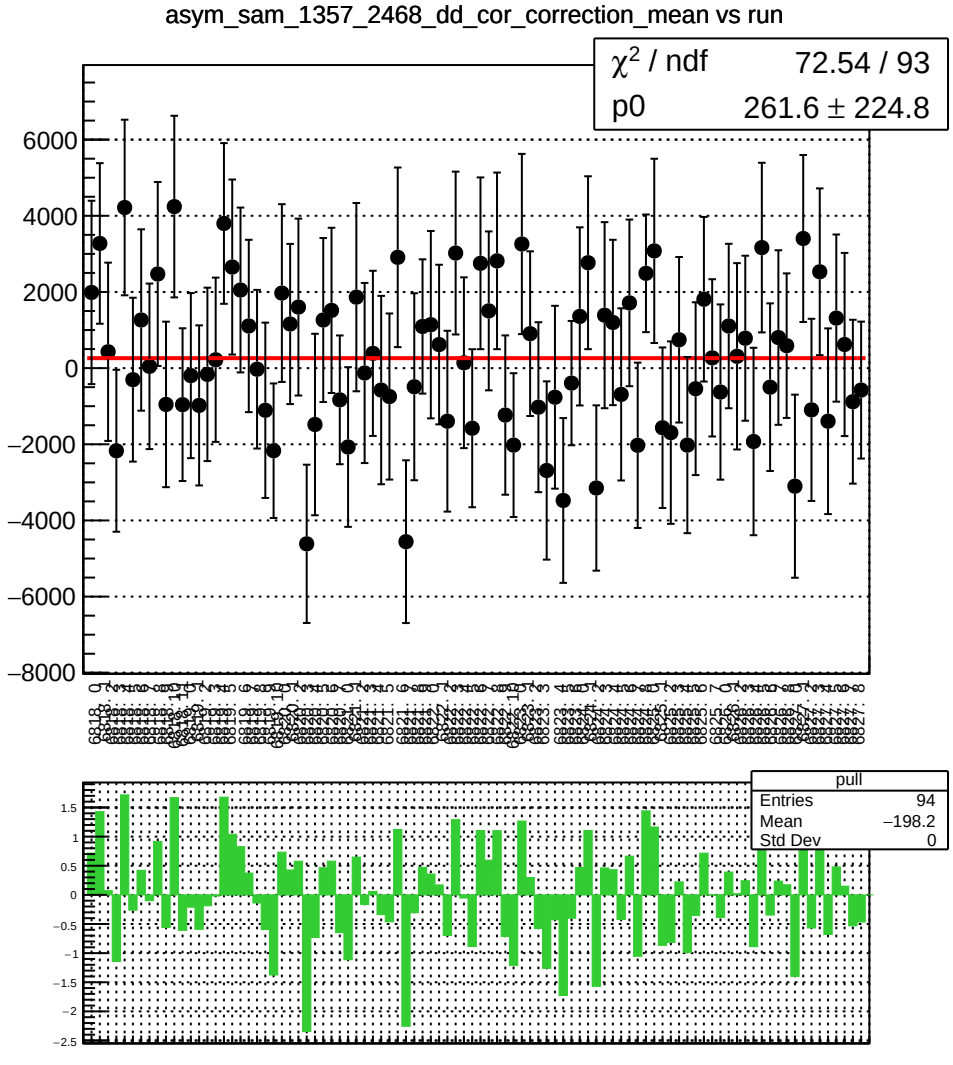

pull1D
Entries 94
Mean 0.008803
Std Dev 0.8784

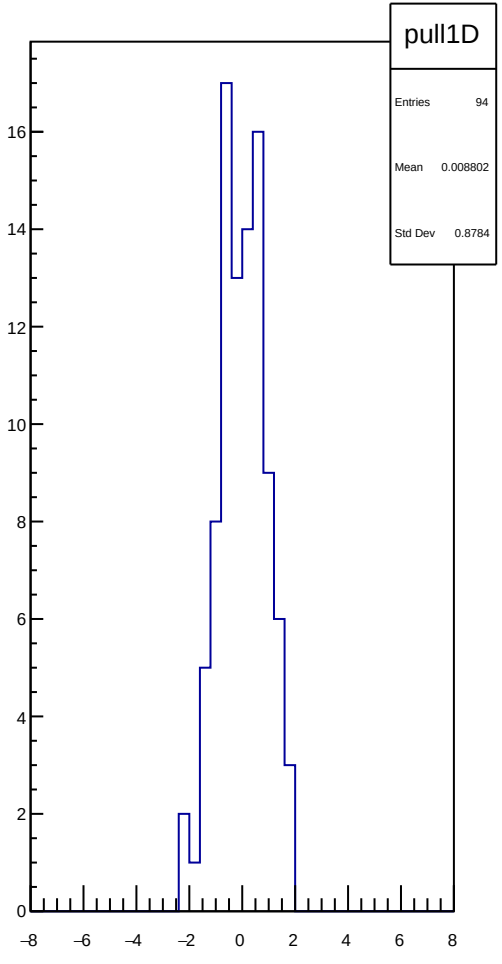

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4419 / 93
p0 212.7 ± 0.1589
240
235
230
225
220
215
210
205
200
195

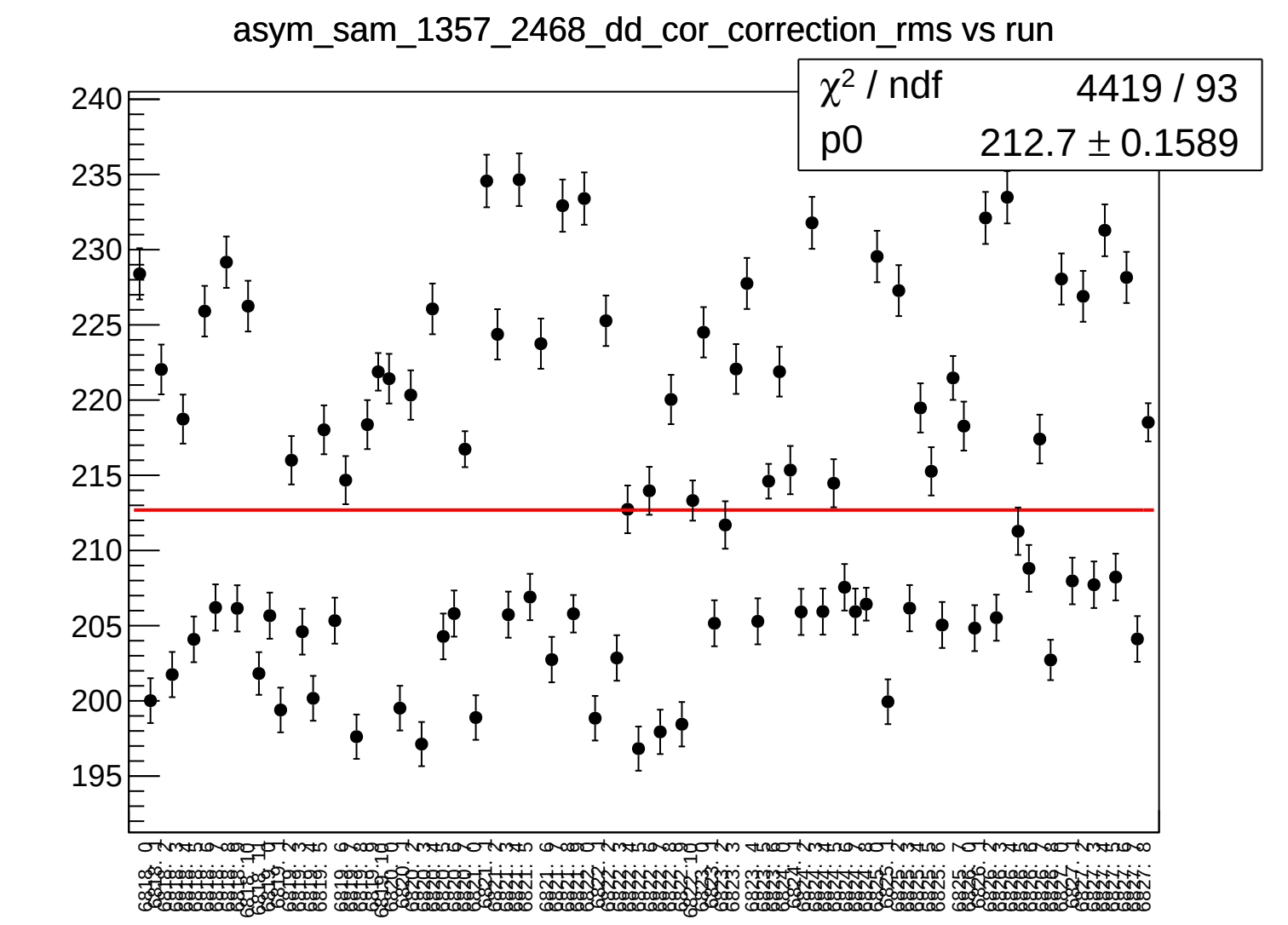

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.98 / 93
p0 16.71 ± 21.59
pull
Entries 94
Mean 2417
Std Dev 0

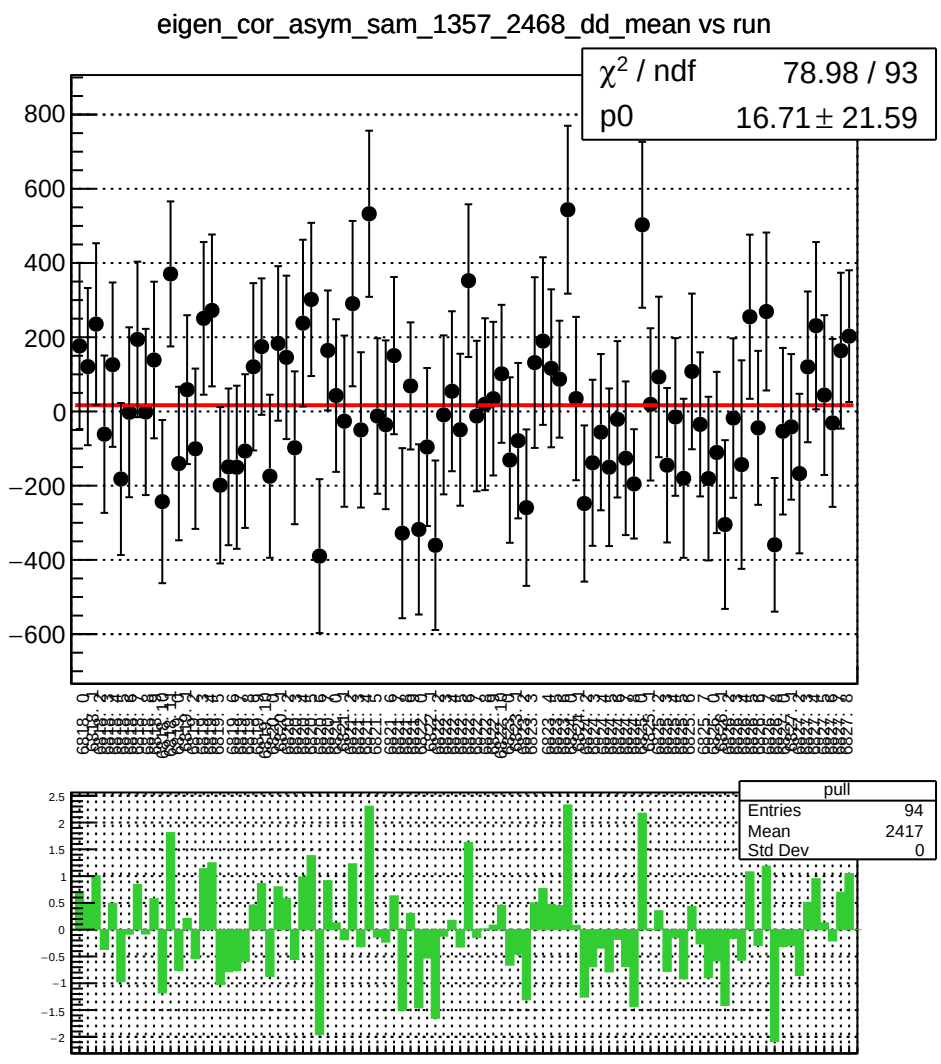

pull1D
Entries 94
Mean −0.001074
Std Dev 0.9166

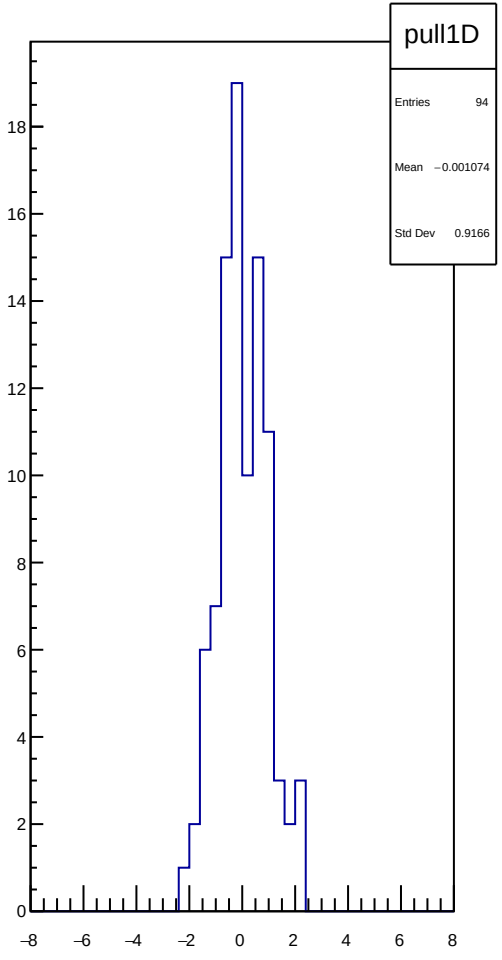

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3973 / 93
p0 20.44 ± 0.01527
26
24
22
20
18

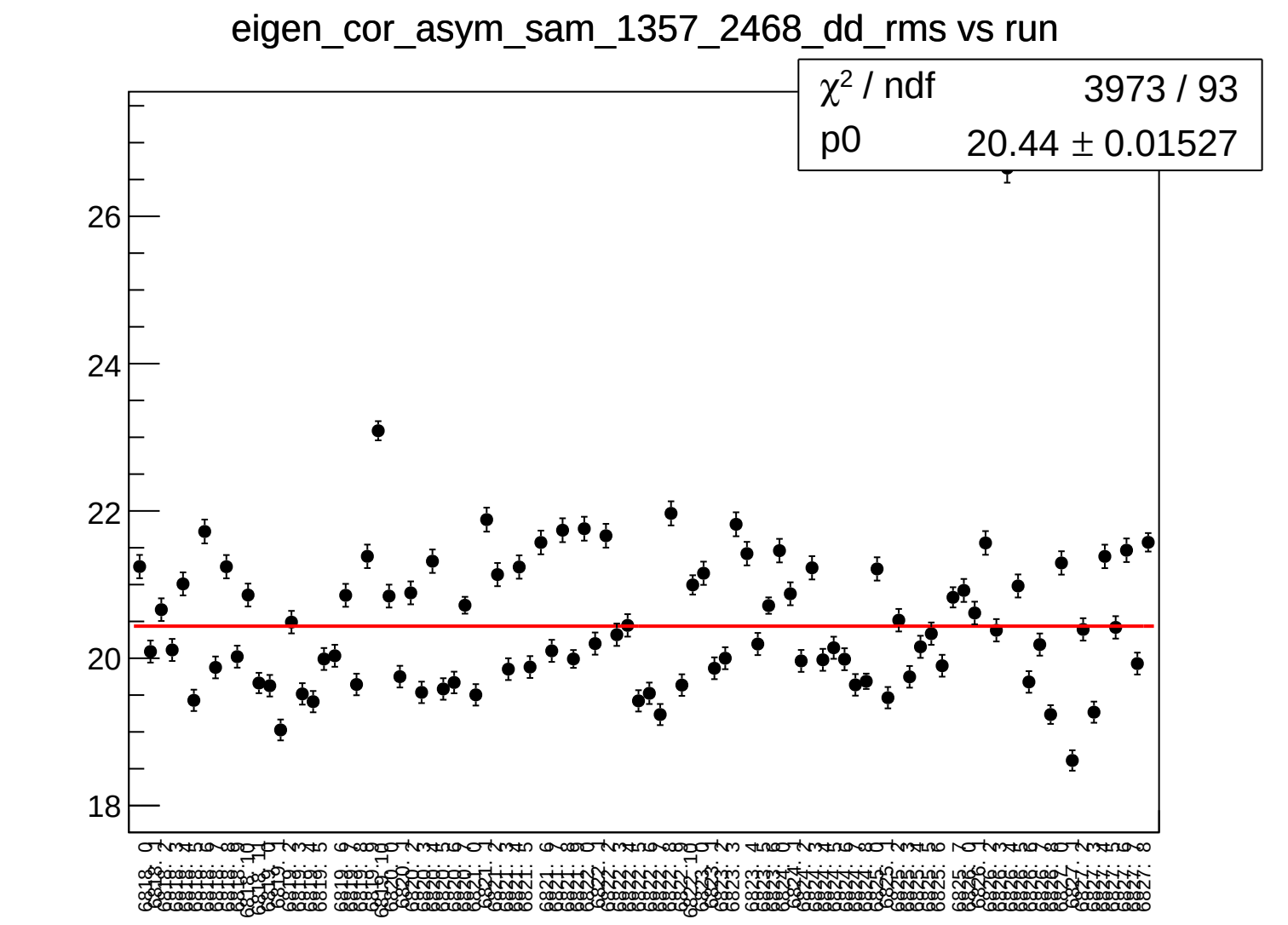

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 72.54 / 93
p0 261.6 ± 224.8
pull
Entries 94
Mean −198.2
Std Dev 0

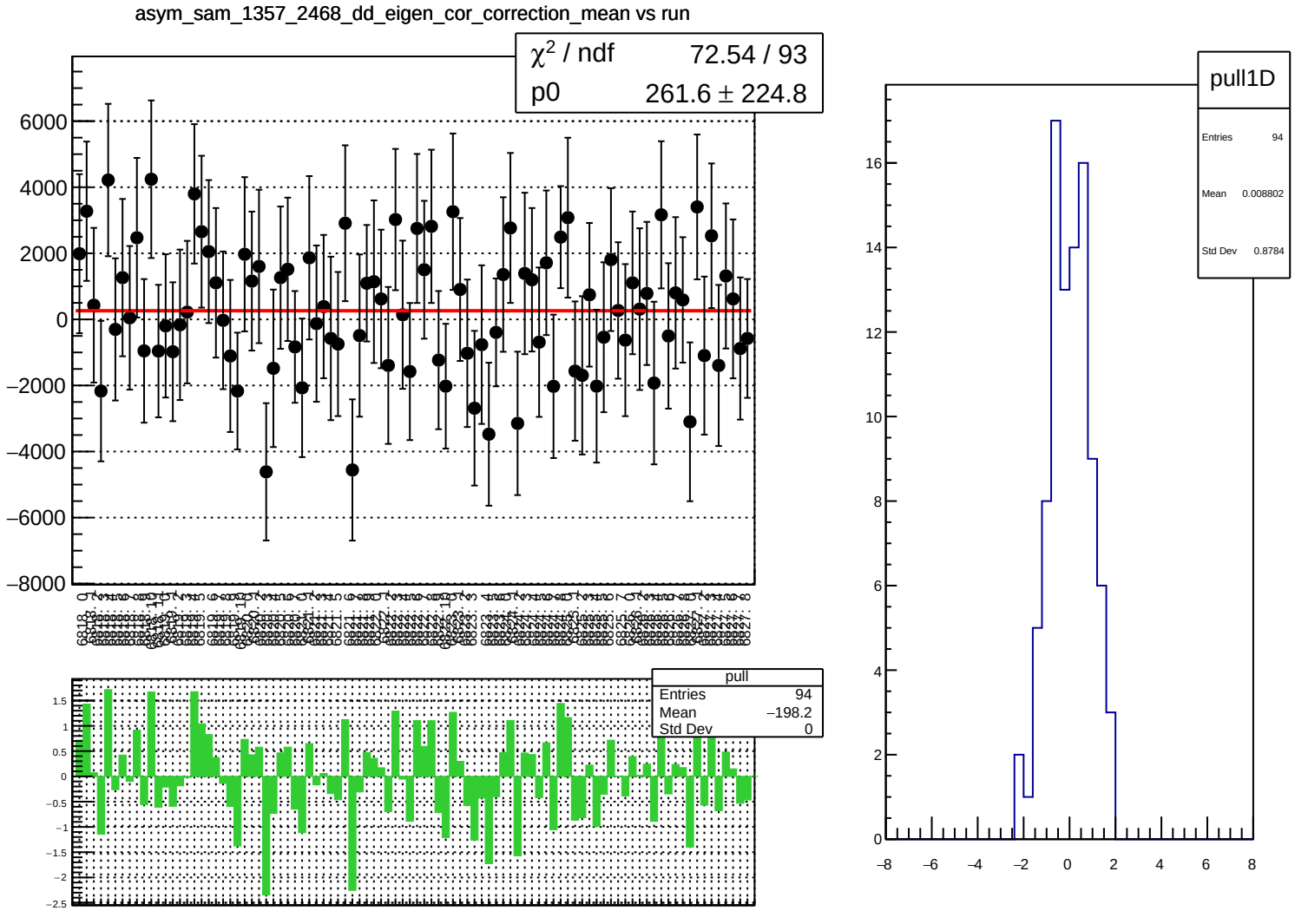

pull1D
Entries 94
Mean 0.008802
Std Dev 0.8784

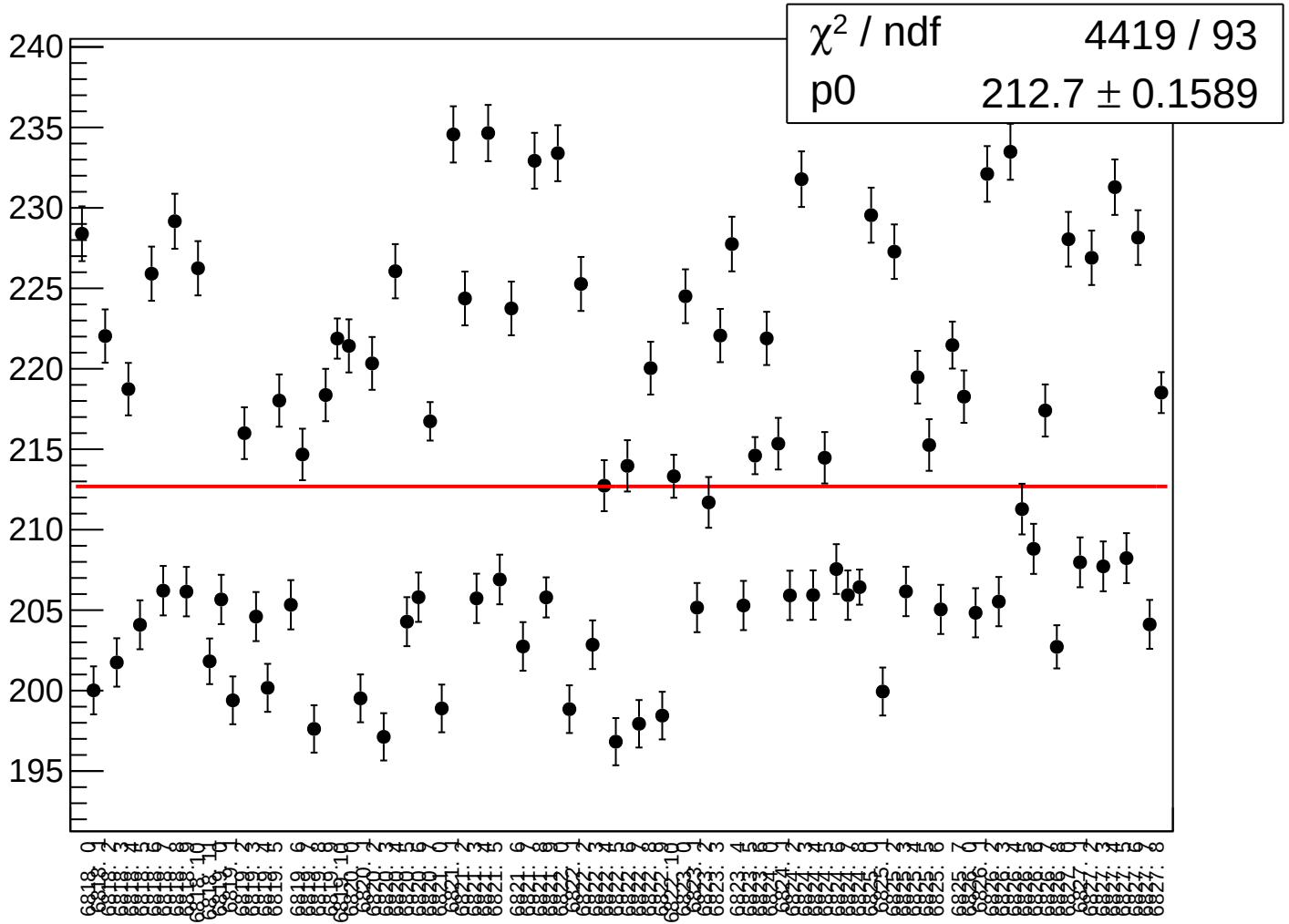

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4419 / 93
p0 212.7 ± 0.1589
240
235
230
225
220
215
210
205
200
195

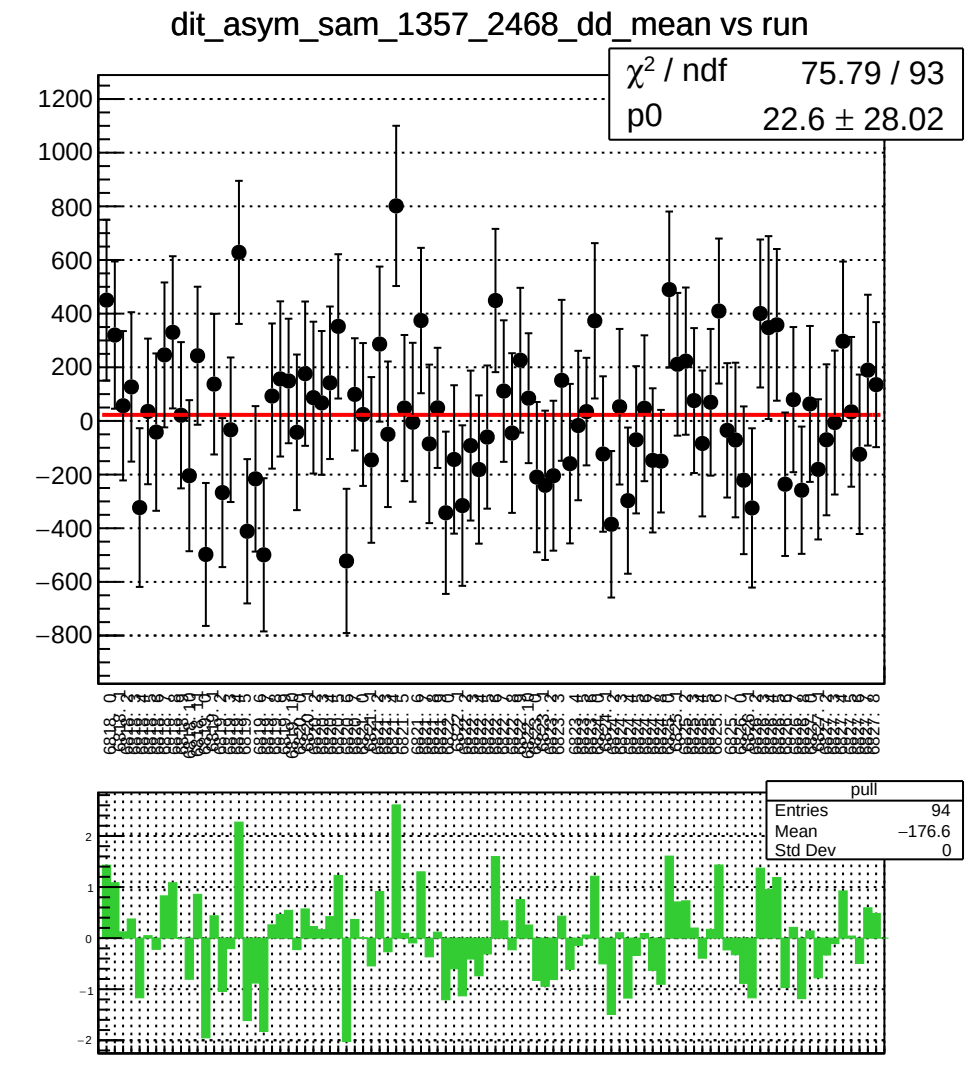

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 78.98 / 93
p0 16.71 ± 21.59
pull
Entries 94
Mean 2417
Std Dev 0

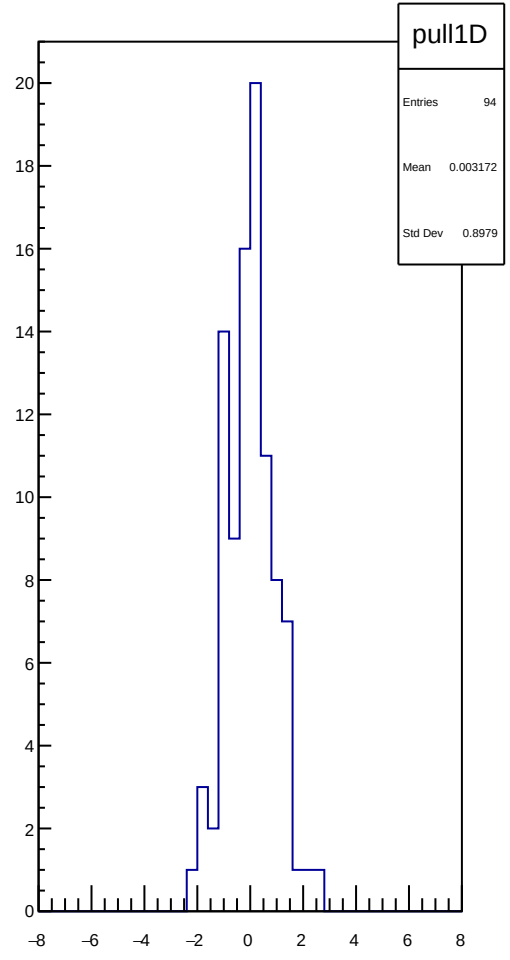

pull1D
Entries 94
Mean −0.001074
Std Dev 0.9166

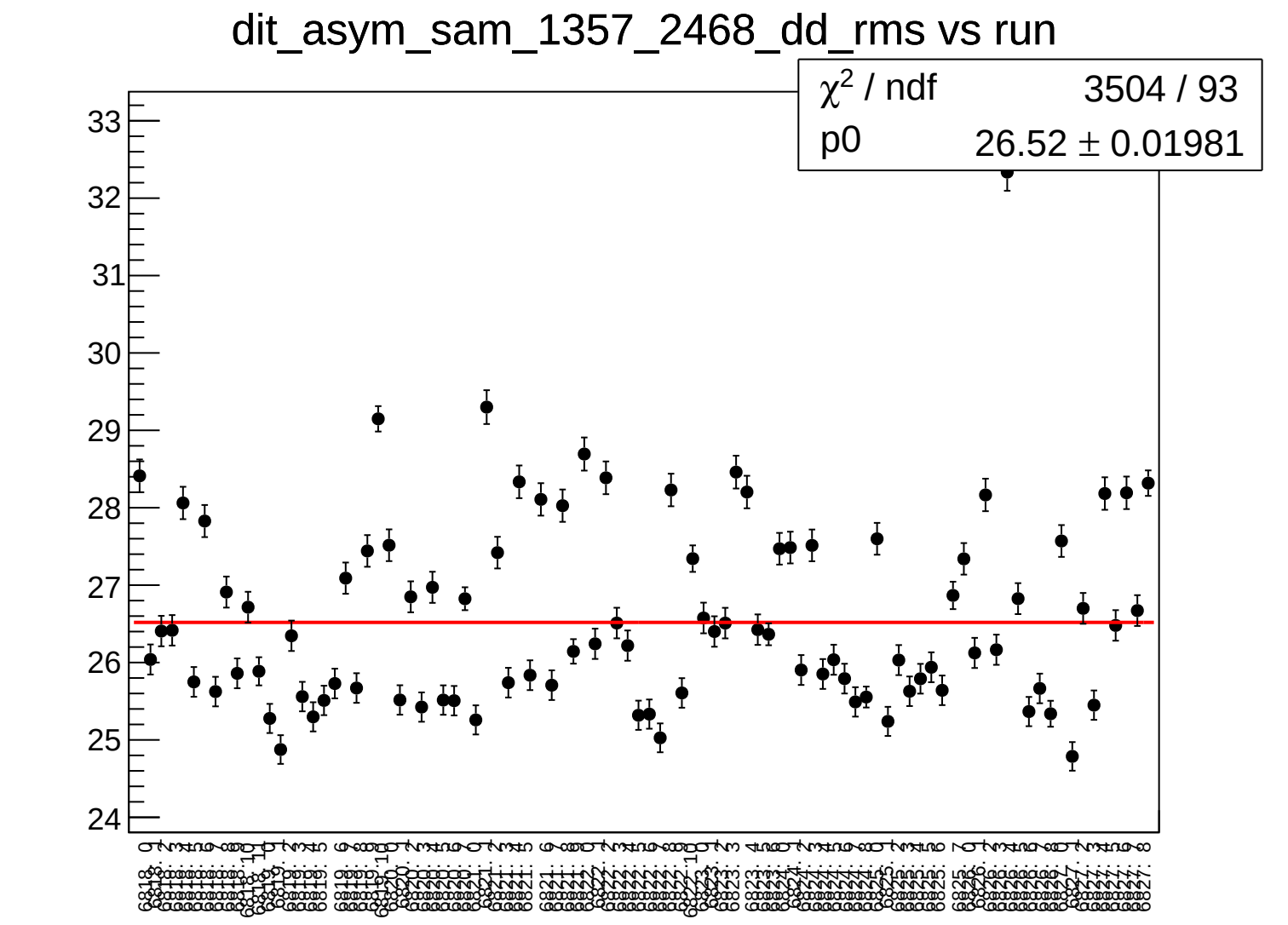

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3973 / 93
p0 20.44 ± 0.01527
26
24
22
20
18

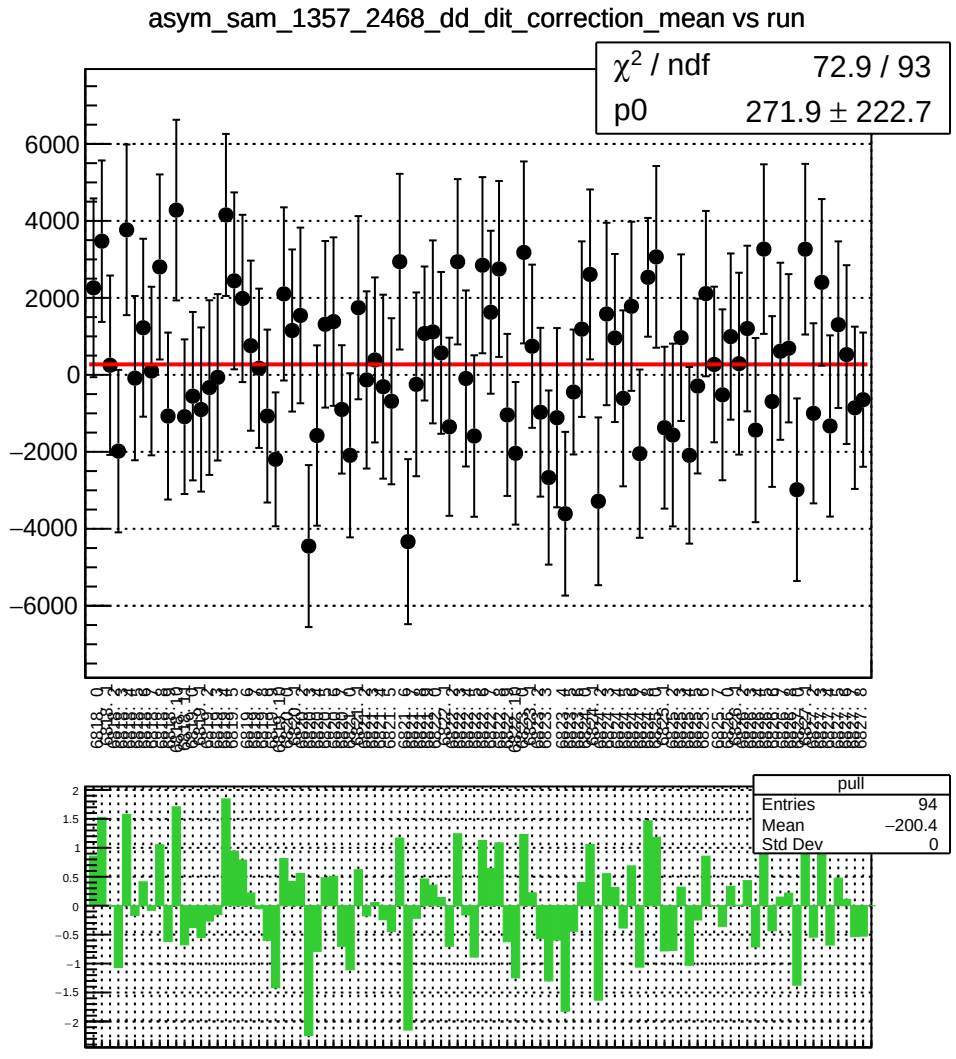

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 72.54 / 93
p0 261.6 ± 224.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 94
Mean −198.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean 0.008802
Std Dev 0.8784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

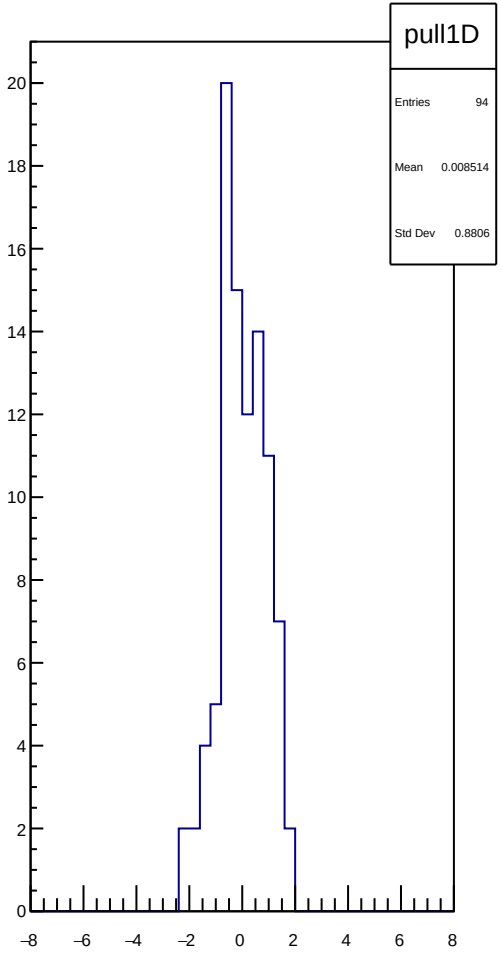

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4419 / 93
p0 212.7 ± 0.1589
240
235
230
225
220
215
210
205
200
195

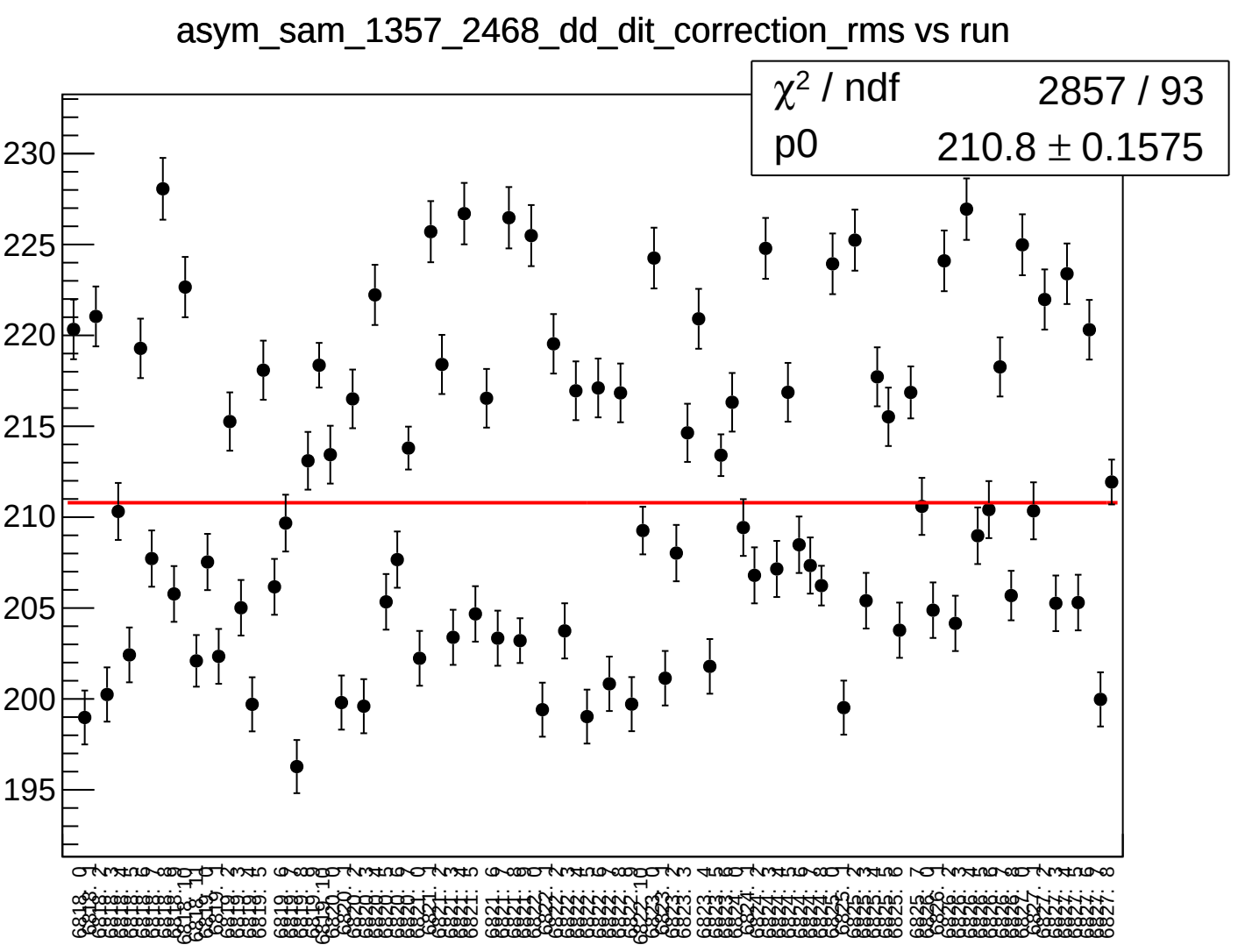

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.79 / 93
p0 22.6 ± 28.02
pull
Entries 94
Mean −176.6
Std Dev 0

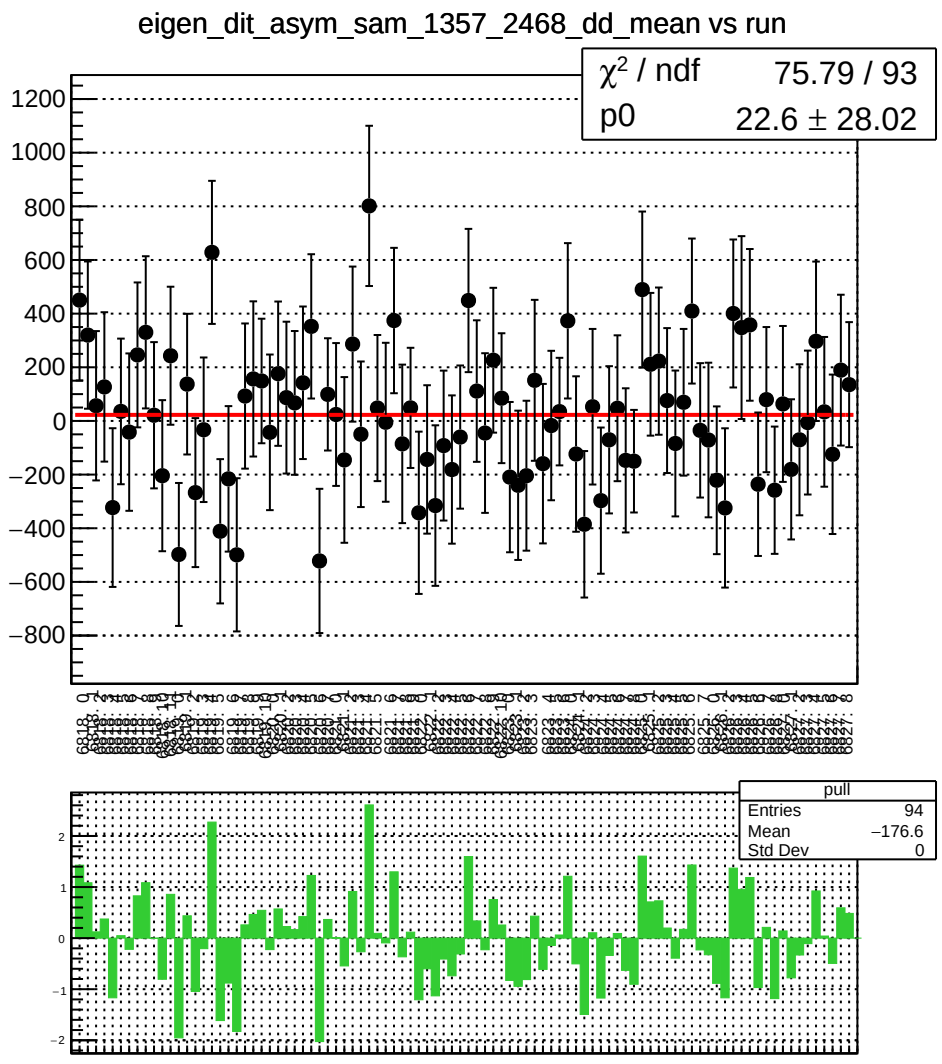

pull1D
Entries 94
Mean 0.003172
Std Dev 0.8979

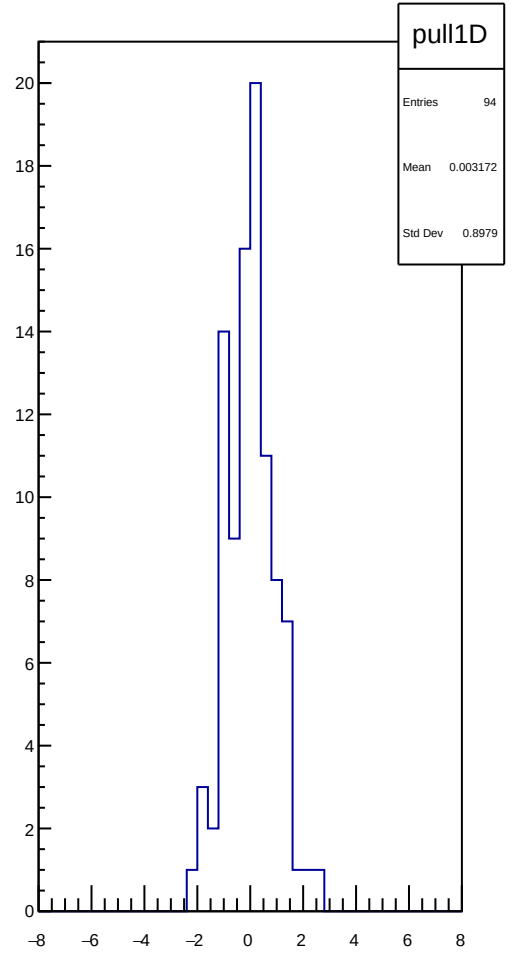

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3504 / 93
p0 26.52 ± 0.01981
33
32
31
30
29
28
27
26
25
24

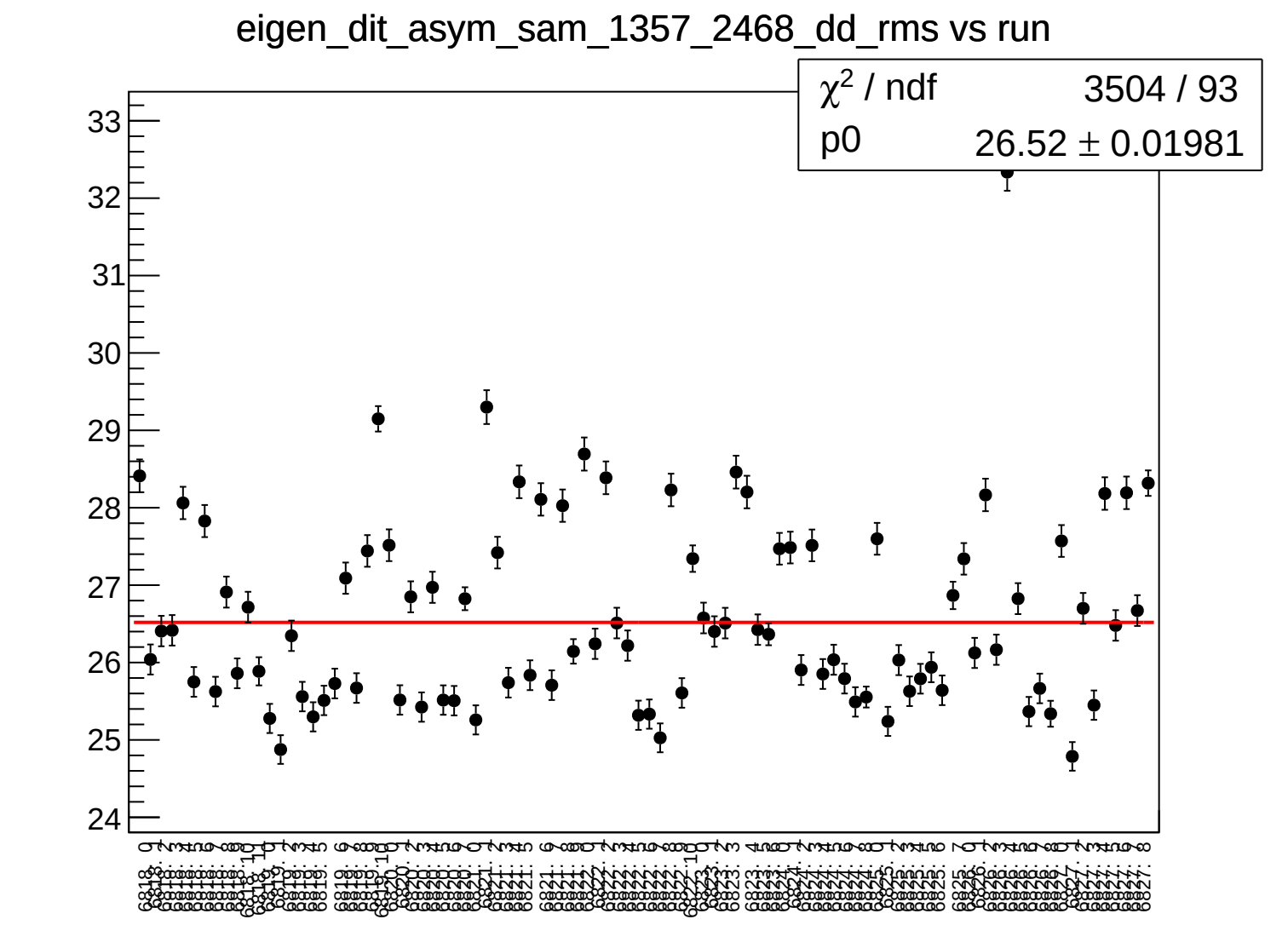

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 72.9 / 93
p0 271.9 ± 222.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −200.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

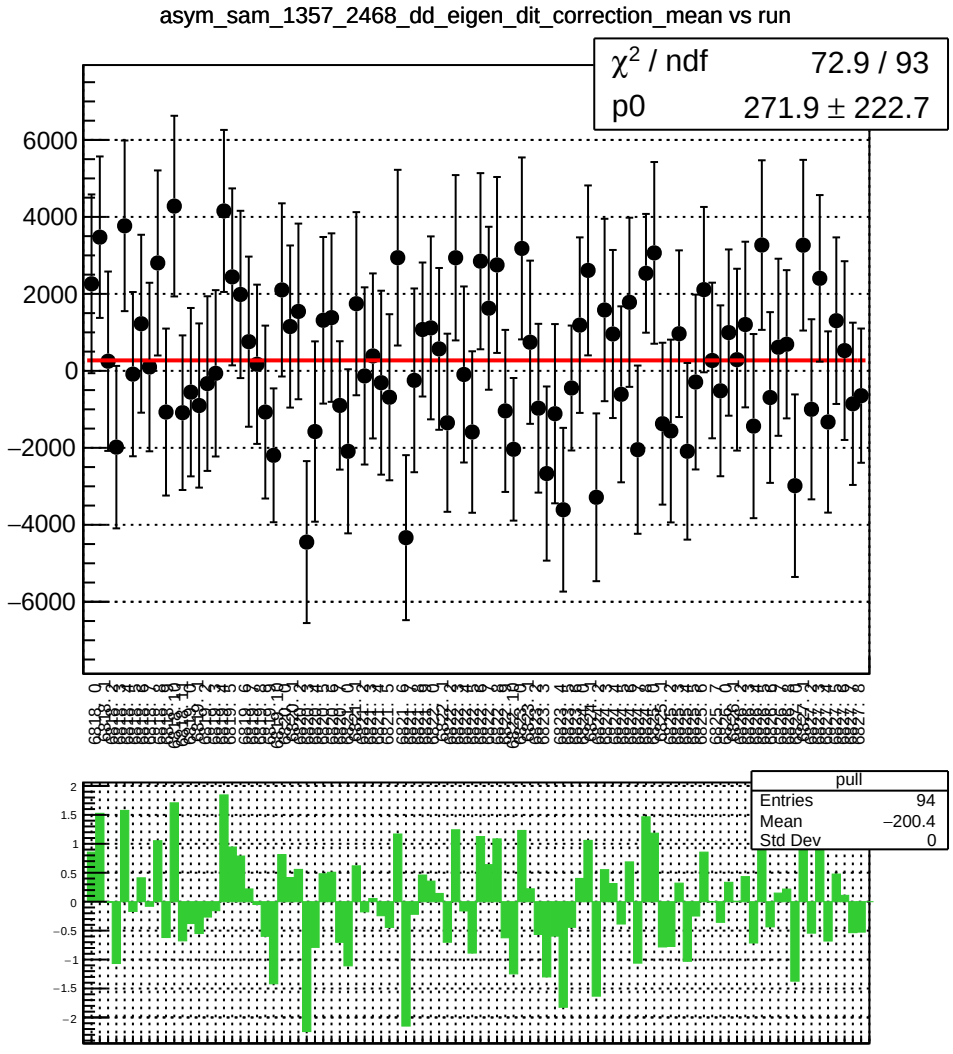

pull1D
Entries 94
Mean 0.008514
Std Dev 0.8806
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

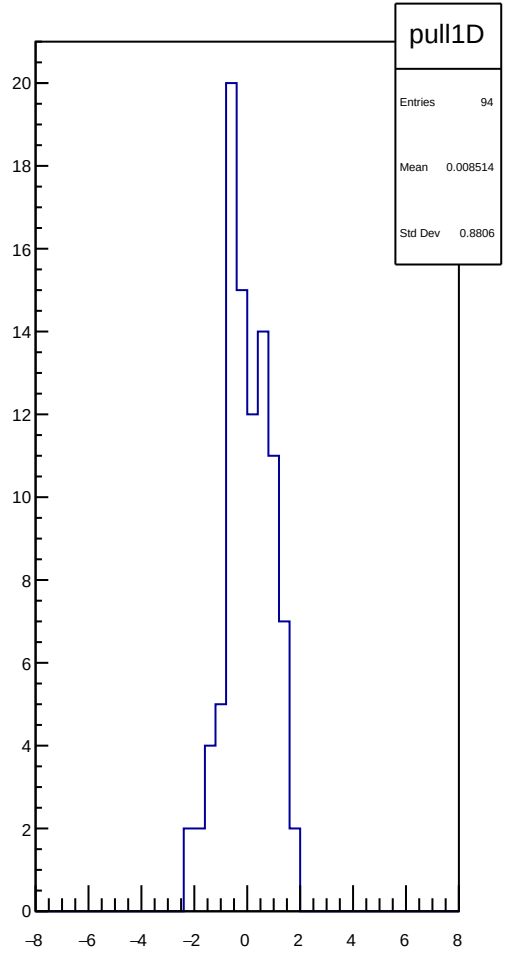

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2857 / 93
p0 210.8 ± 0.1575
230
225
220
215
210
205
200
195

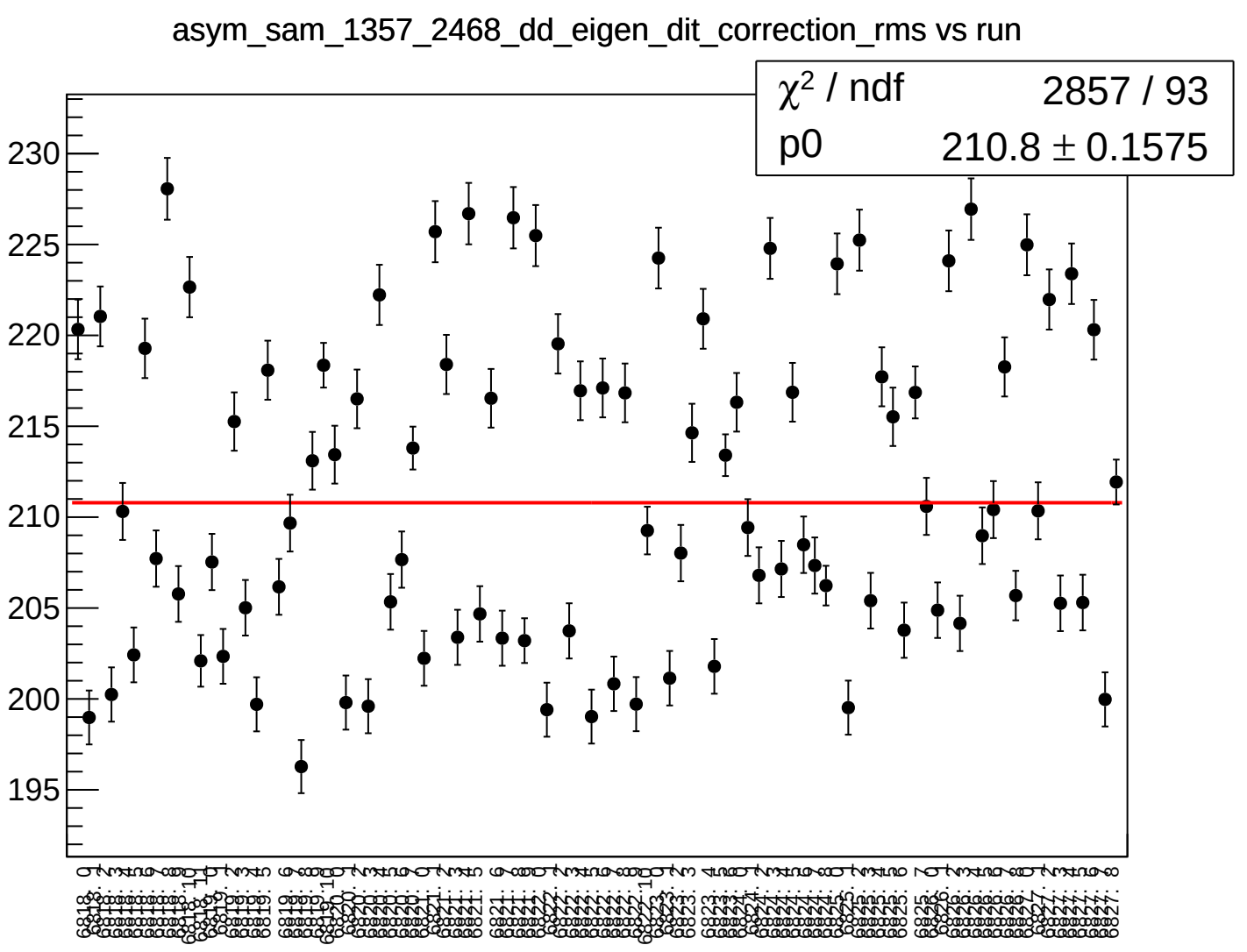

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 75.79 / 93
p0 22.6 ± 28.02
pull
Entries 94
Mean −176.6
Std Dev 0

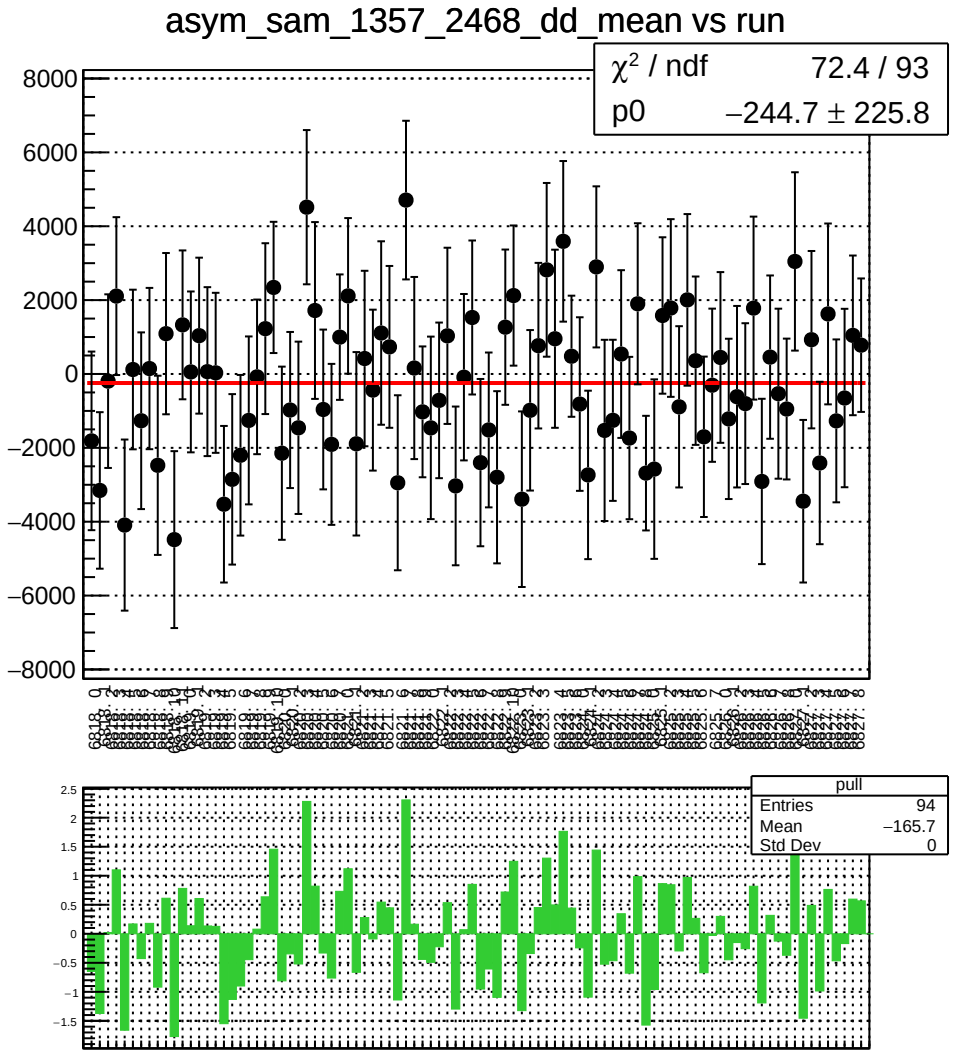

pull1D
Entries 94
Mean 0.003172
Std Dev 0.8979

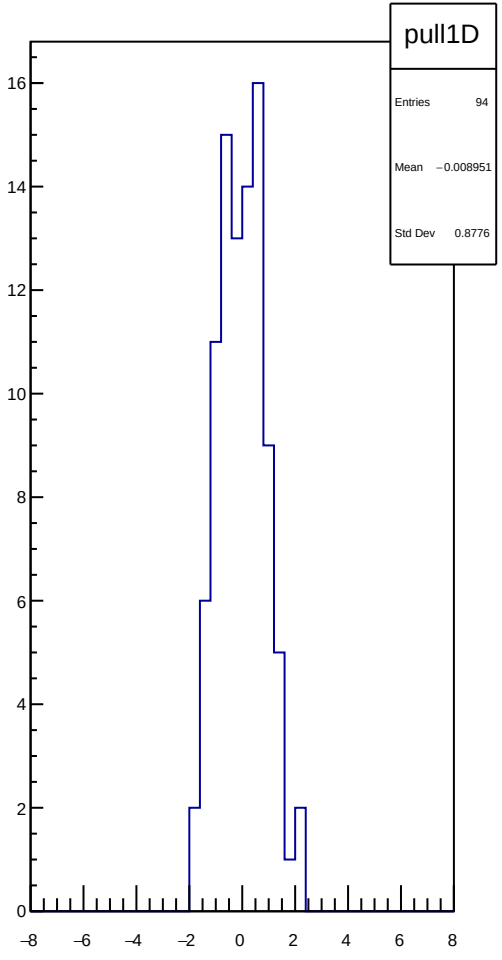

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3504 / 93
p0 26.52 ± 0.01981
33
32
31
30
29
28
27
26
25
24

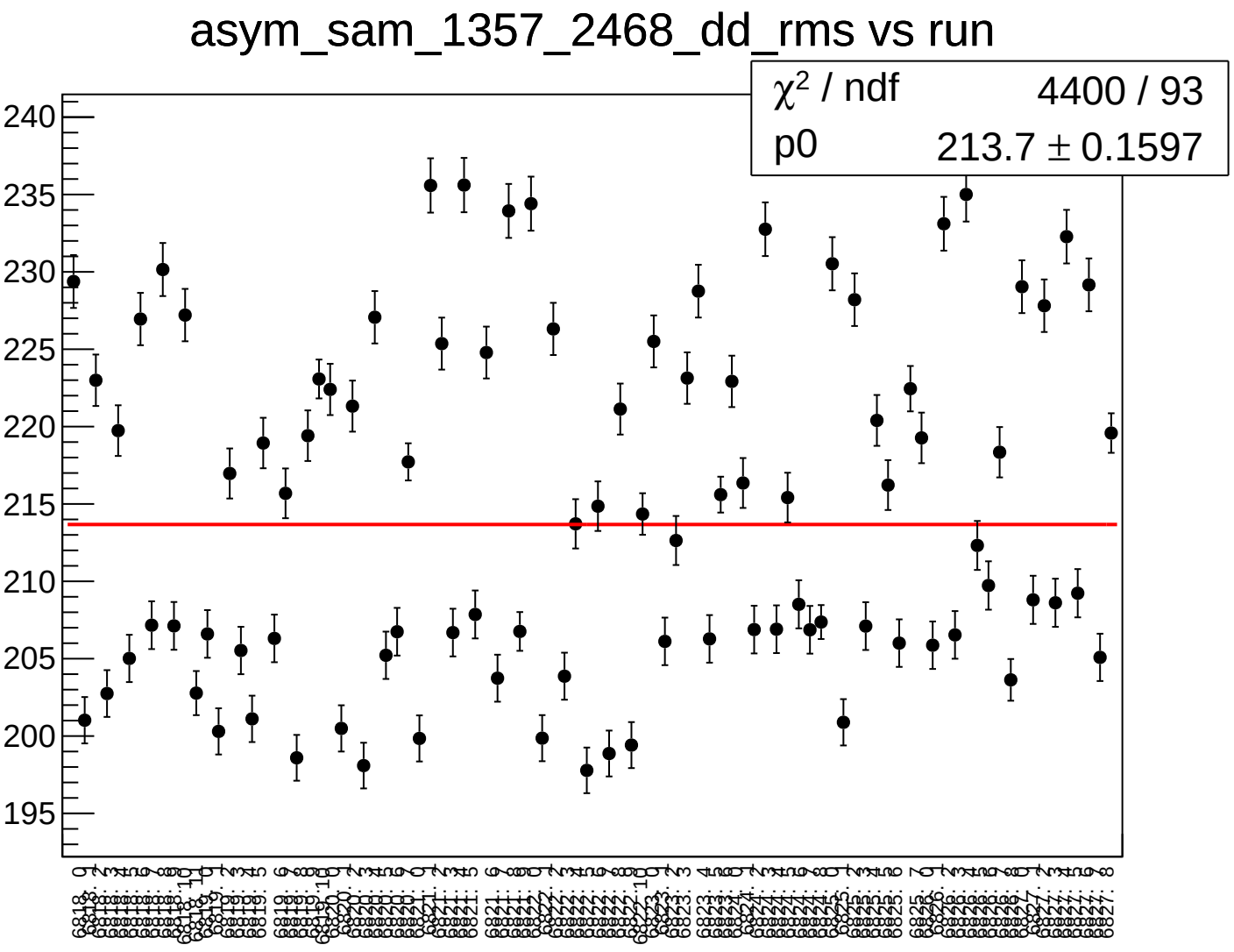

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.9 / 93
p0 271.9 ± 222.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 94
Mean −200.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

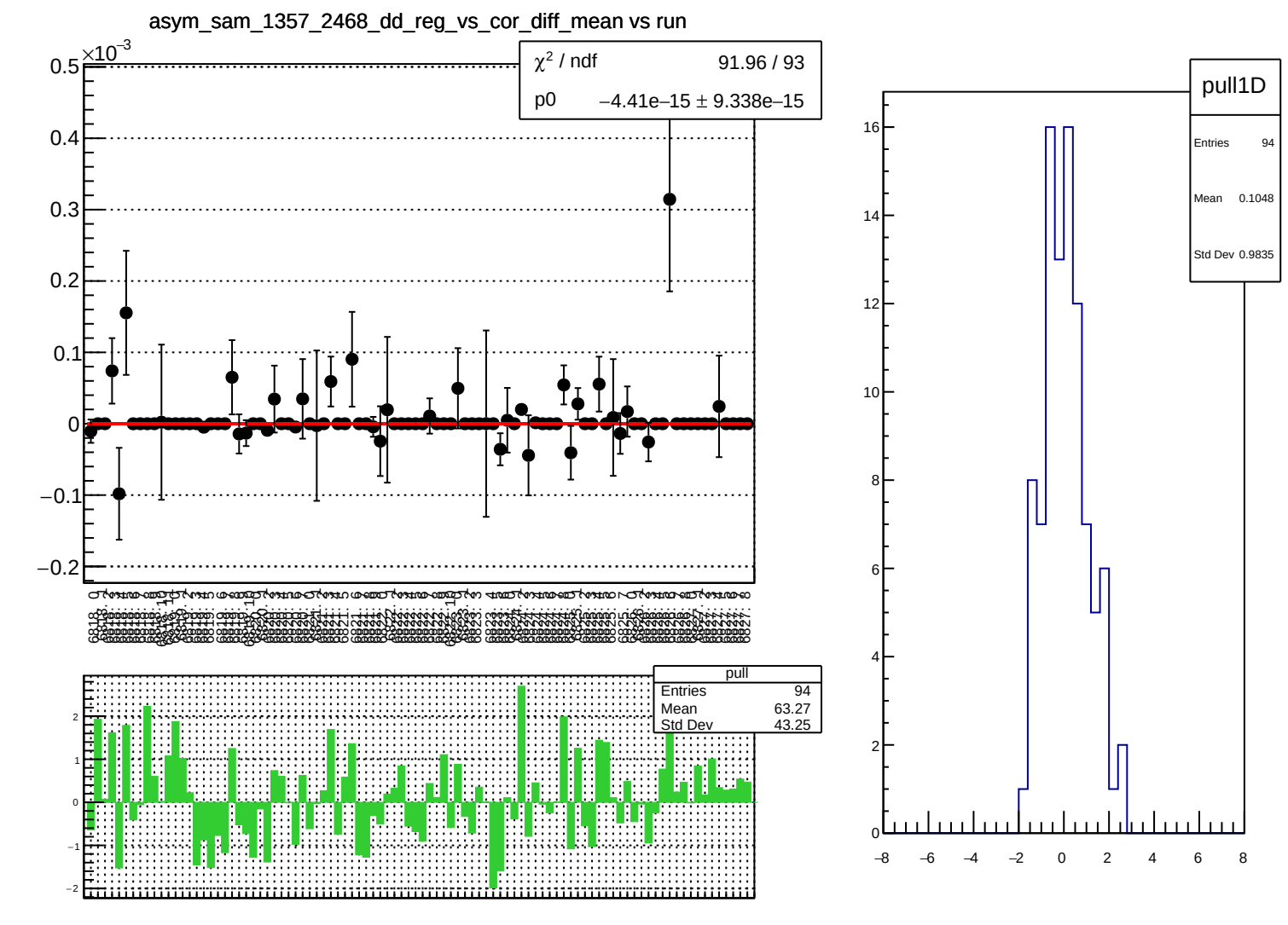

pull1D
Entries 94
Mean 0.008514
Std Dev 0.8806
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

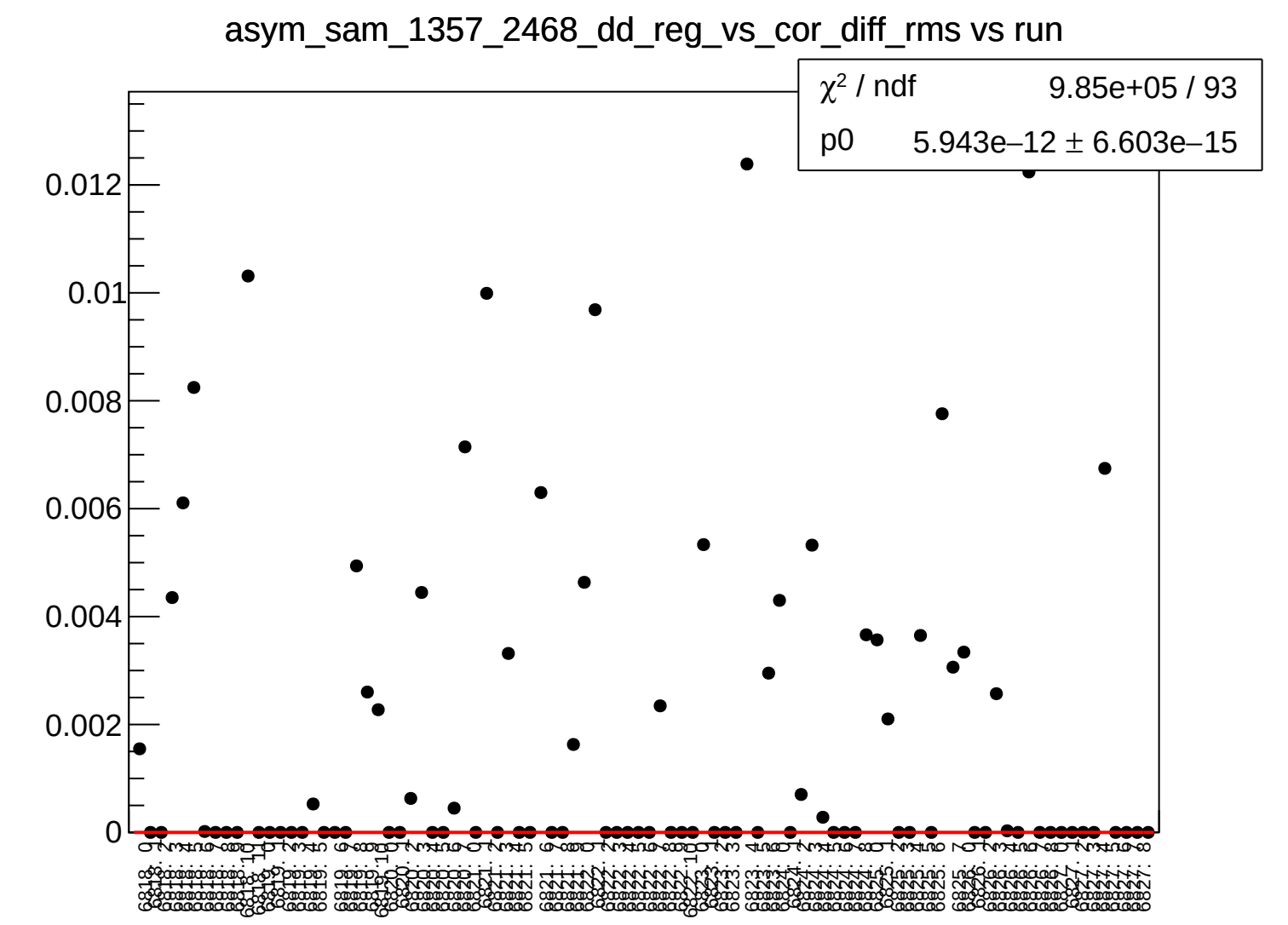

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2857 / 93
p0 210.8 ± 0.1575
230
225
220
215
210
205
200
195

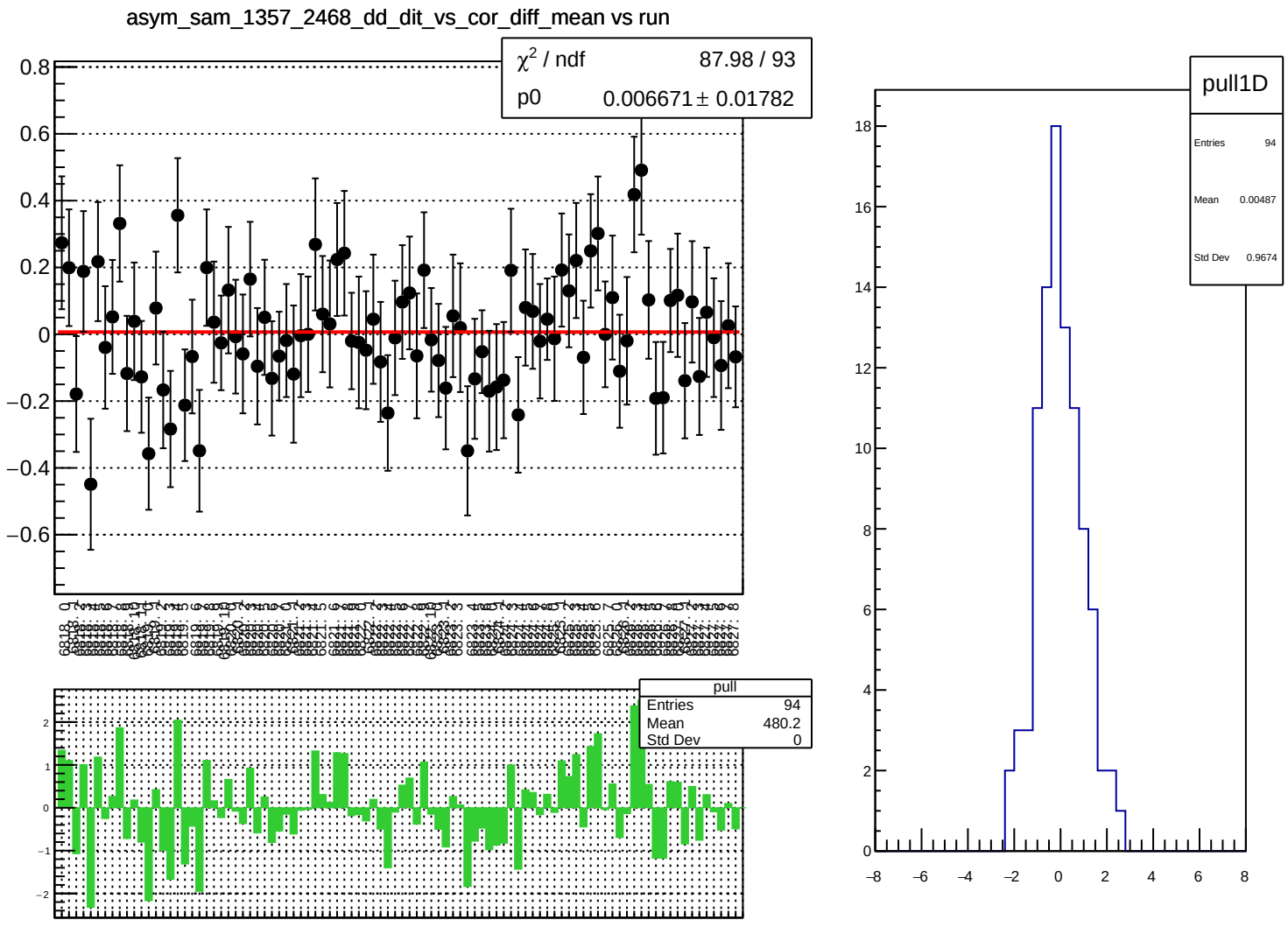

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.4 / 93
p0 −244.7 ± 225.8
pull
Entries 94
Mean −165.7
Std Dev 0

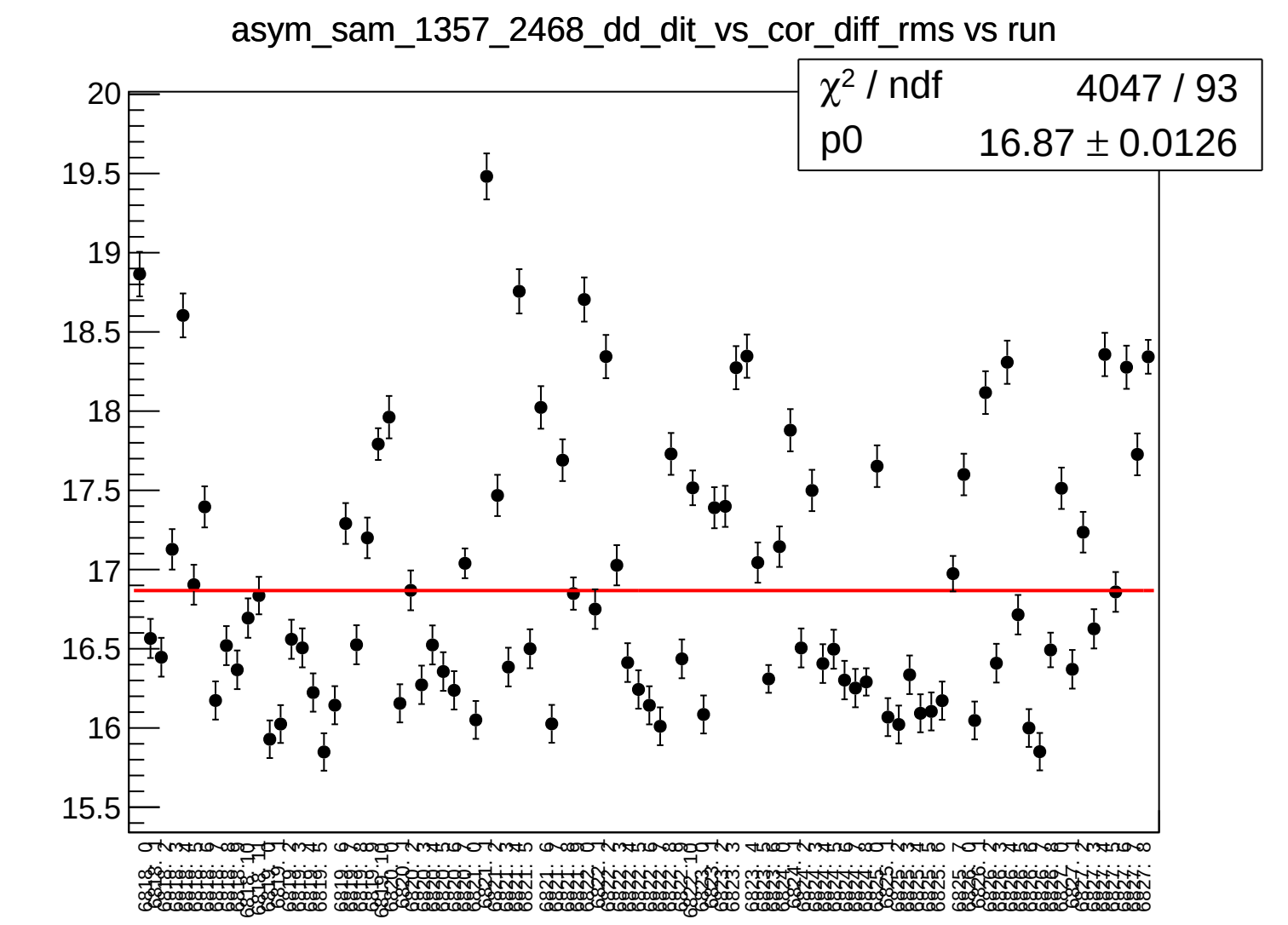

pull1D
Entries 94
Mean −0.008951
Std Dev 0.8776

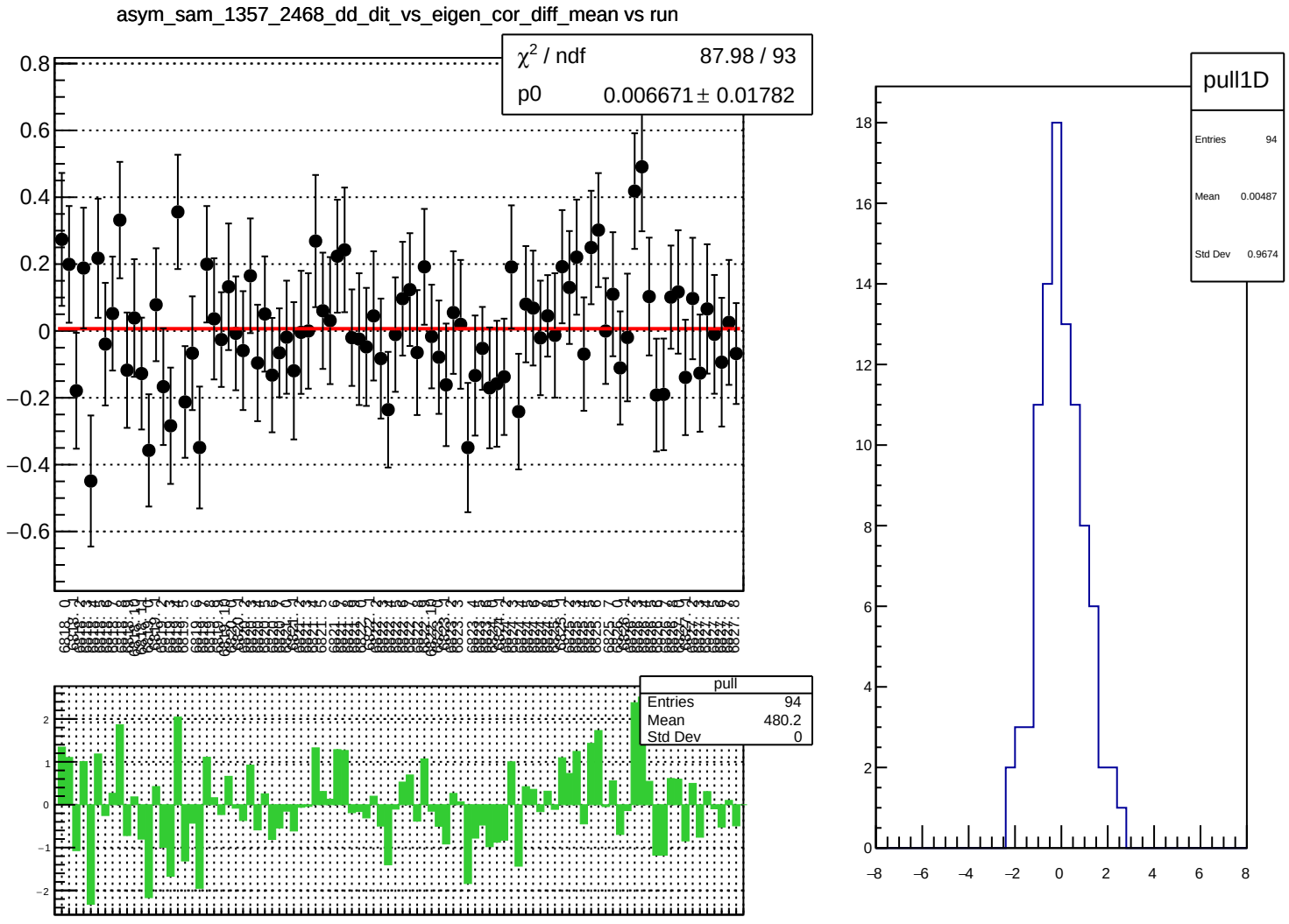

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4400 / 93
p0 213.7 ± 0.1597
240
235
230
225
220
215
210
205
200
195

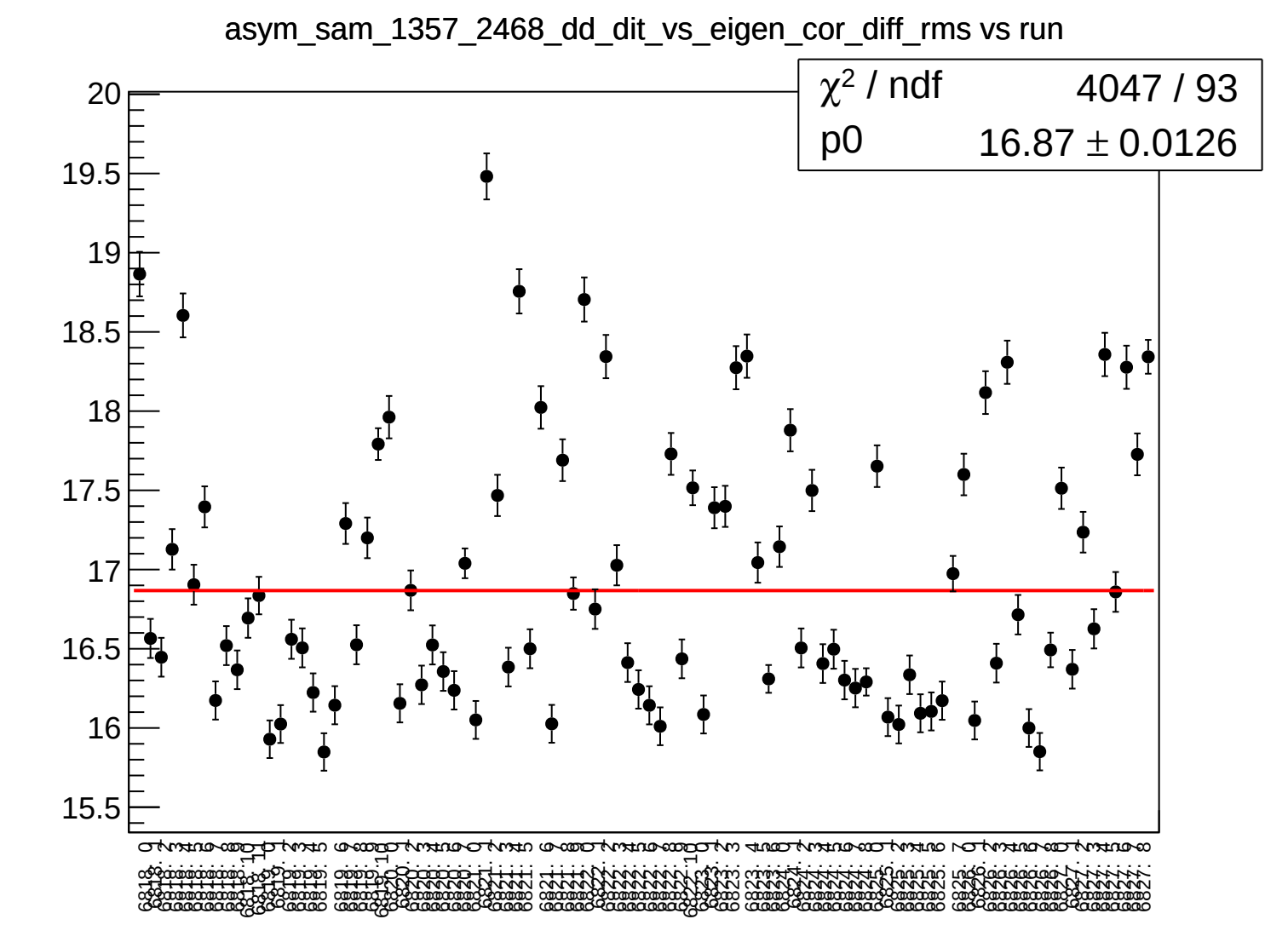

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 91.96 / 93
p0 −4.41e−15 ± 9.338e−15
pull
Entries 94
Mean 63.27
Std Dev 43.25
pull1D
Entries 94
Mean 0.1048
Std Dev 0.9835

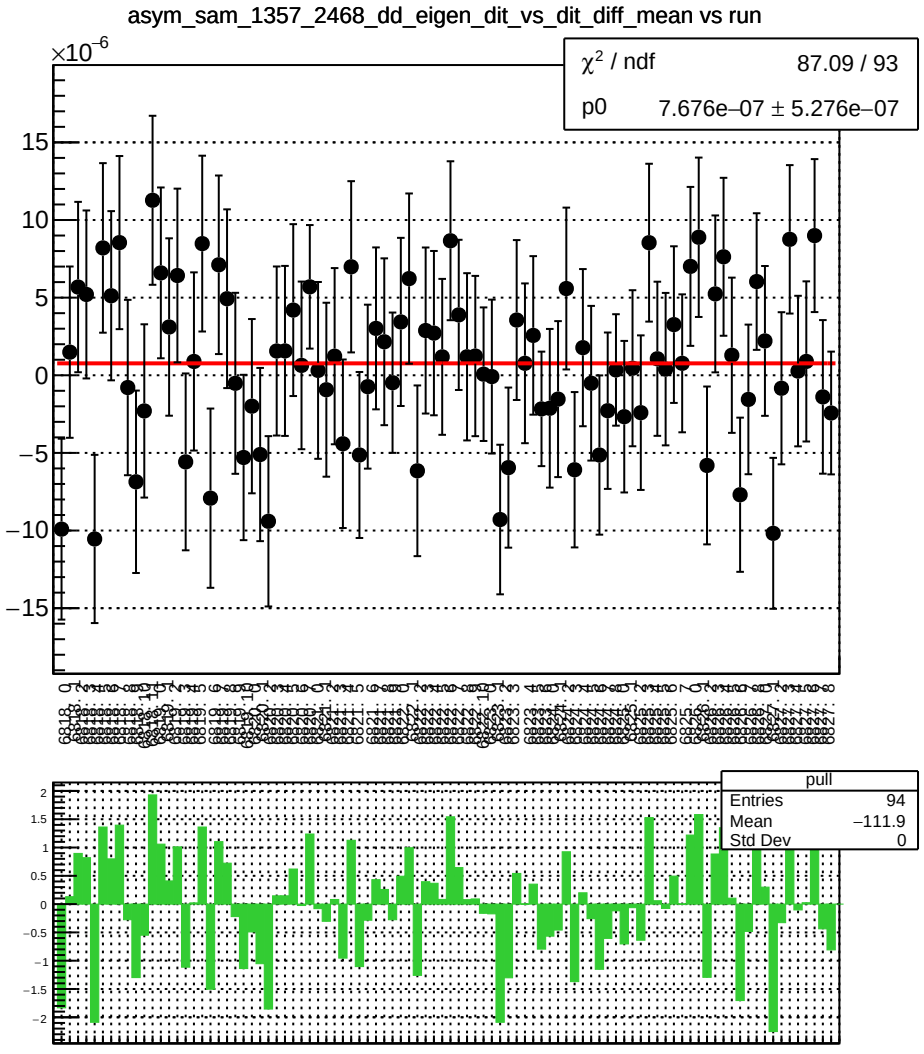

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.85e+05 / 93
p0 5.943e−12 ± 6.603e−15
0.012
0.01
0.008
0.006
0.004
0.002
0

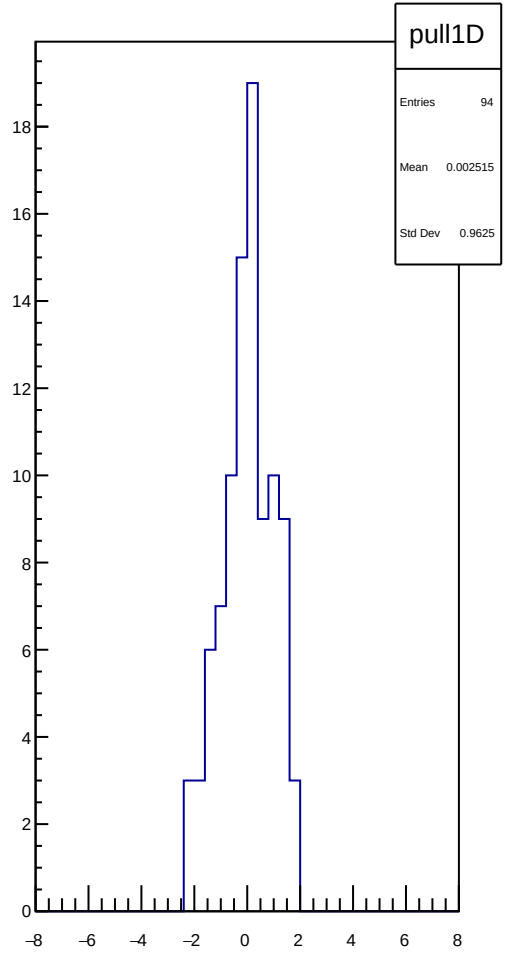

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 93
p0 0.006671 ± 0.01782
pull
Entries 94
Mean 480.2
Std Dev 0
pull1D
Entries 94
Mean 0.00487
Std Dev 0.9674

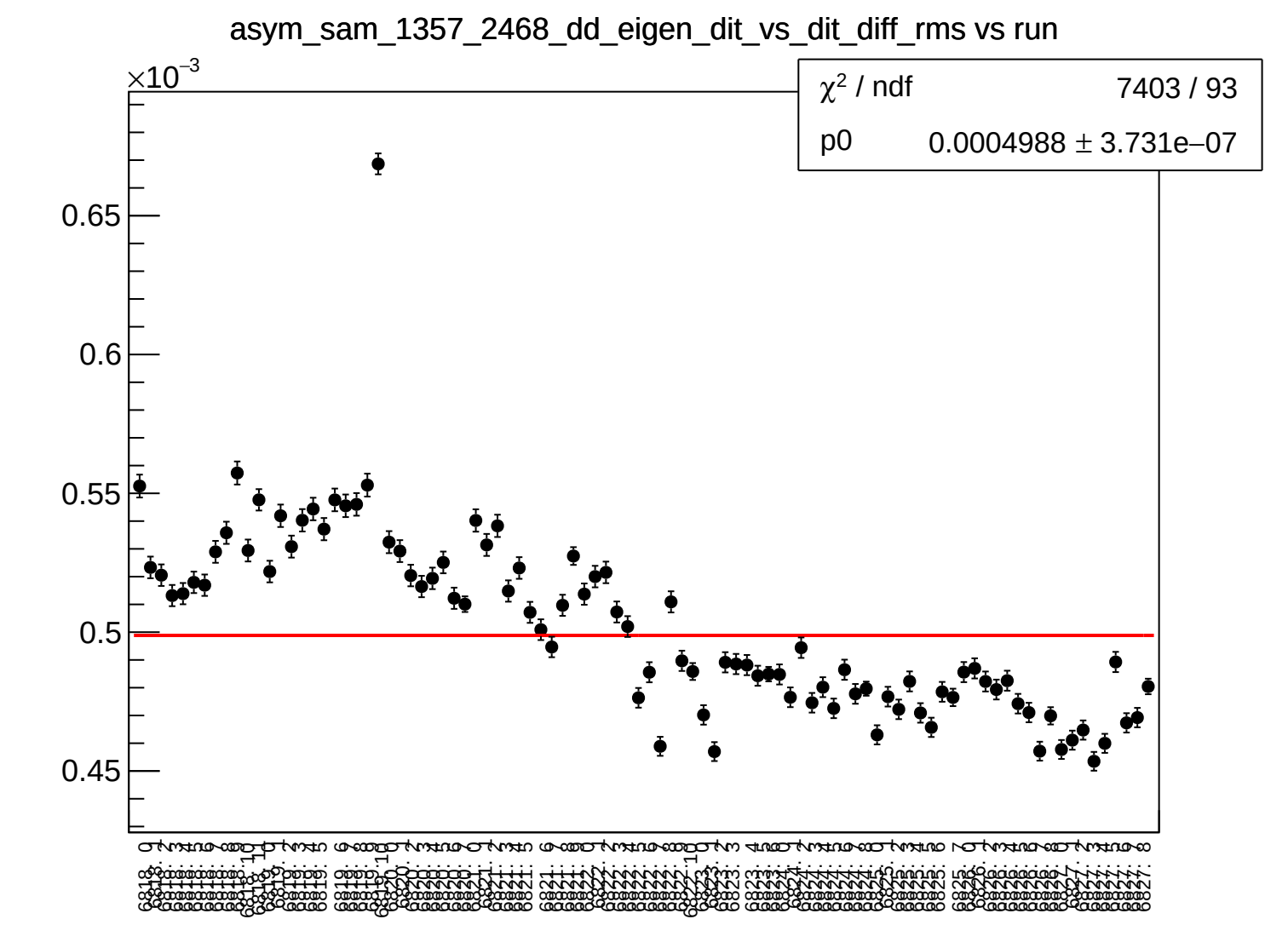

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4047 / 93
p0 16.87 ± 0.0126
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

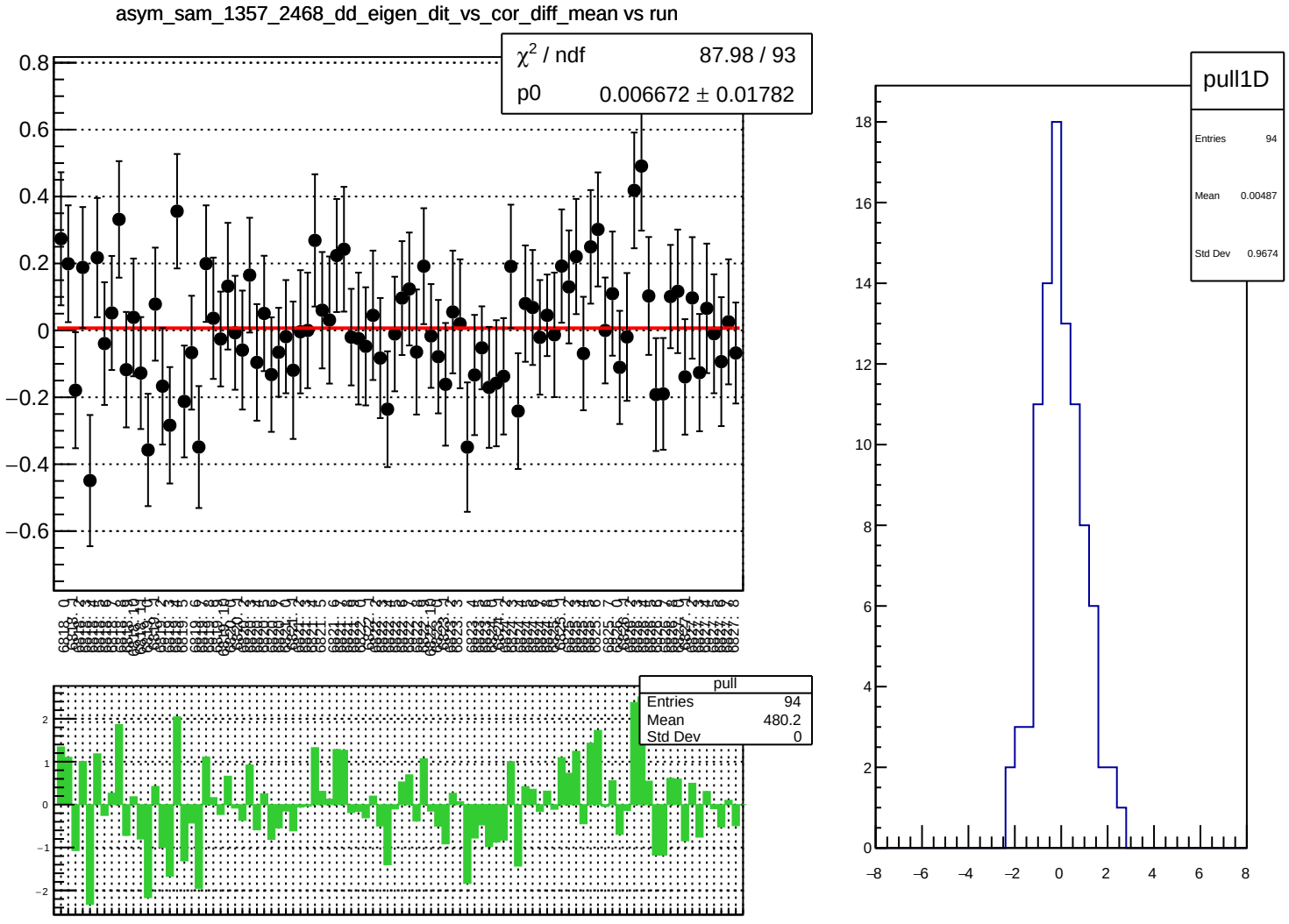

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 93
p0 0.006671 ± 0.01782
pull
Entries 94
Mean 480.2
Std Dev 0
pull1D
Entries 94
Mean 0.00487
Std Dev 0.9674

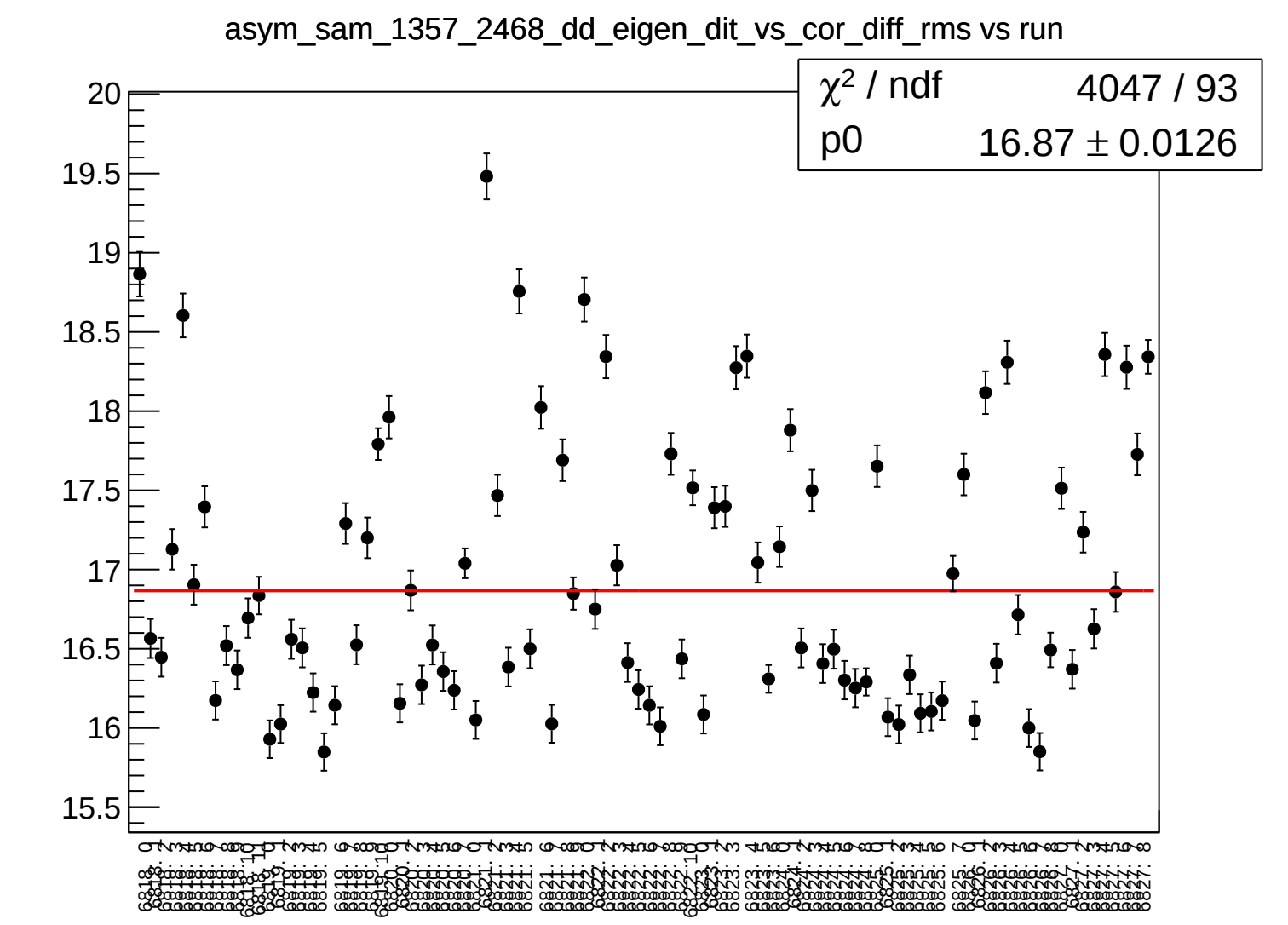

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4047 / 93
p0 16.87 ± 0.0126
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

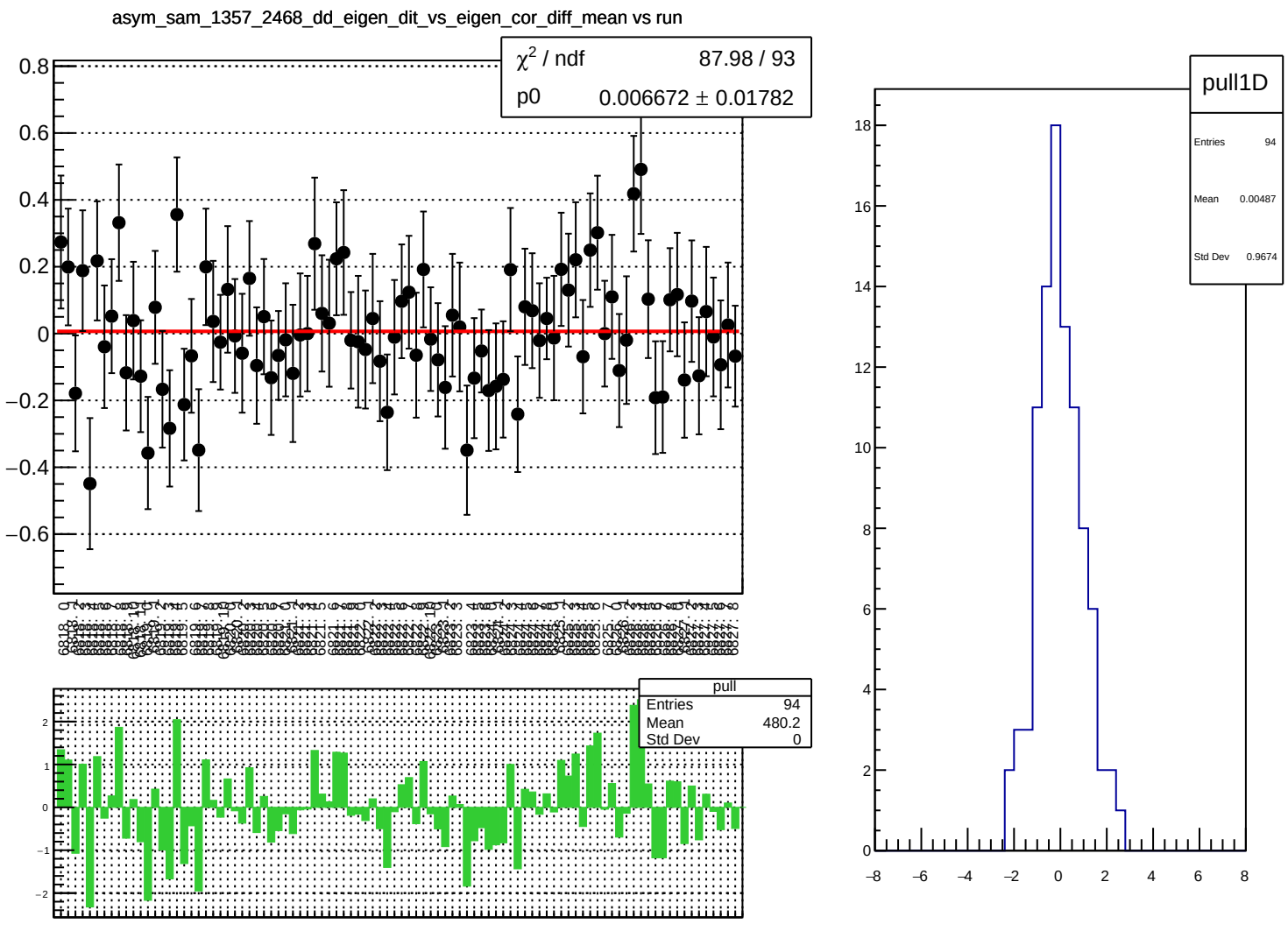

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 87.09 / 93
p0 7.676e−07 ± 5.276e−07
pull
Entries 94
Mean −111.9
Std Dev 0

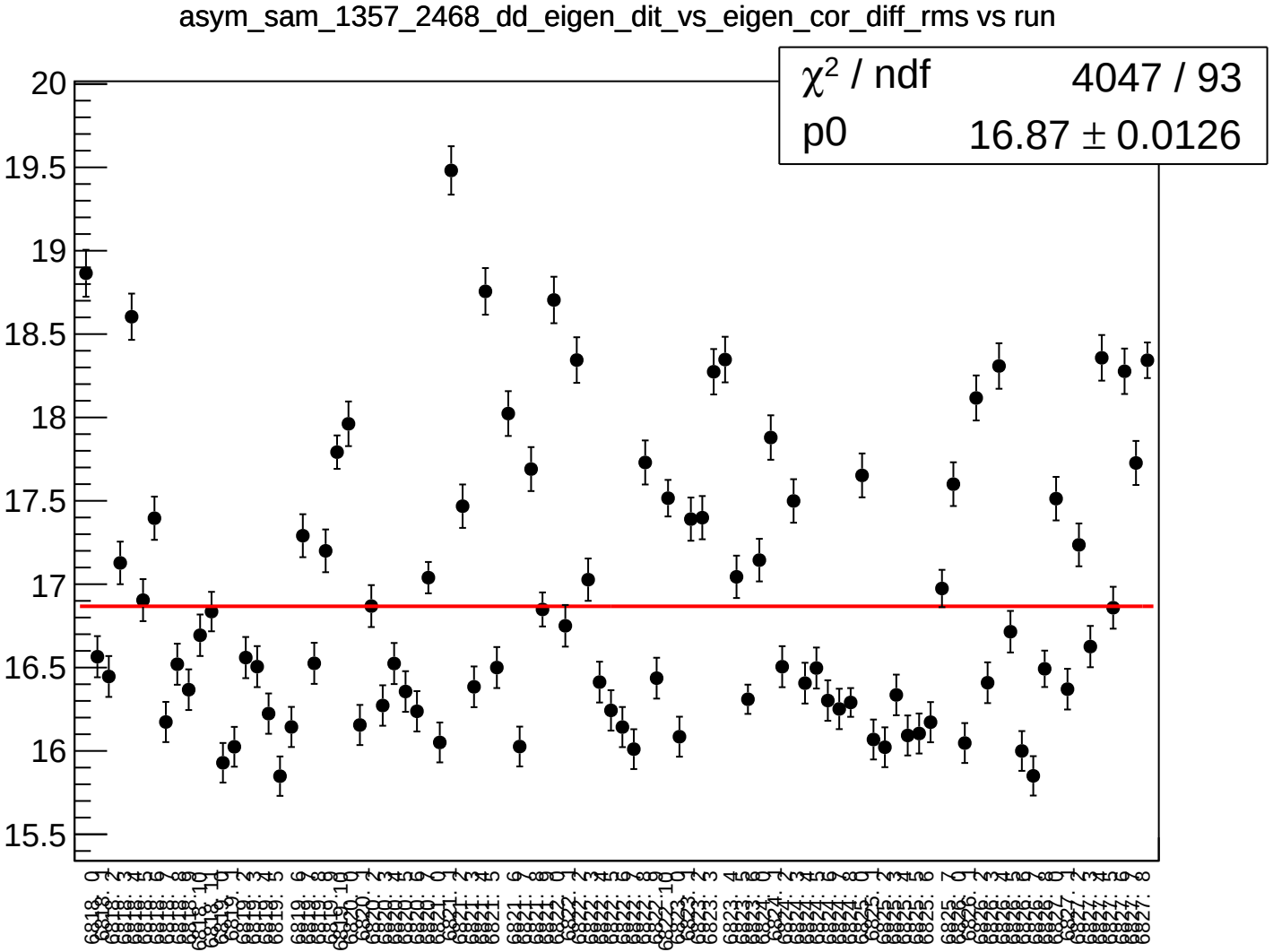

pull1D
Entries 94
Mean 0.002515
Std Dev 0.9625

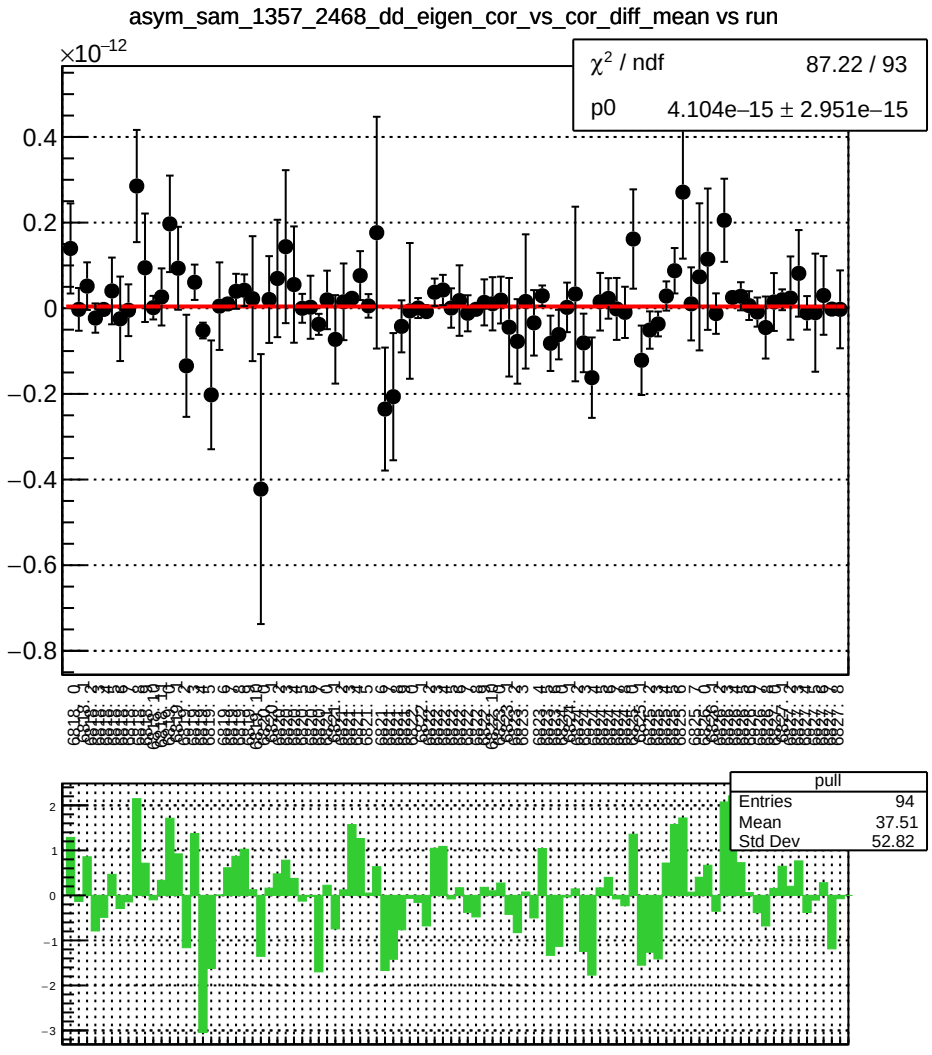

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 7403 / 93
p0 0.0004988 ± 3.731e−07
0.65
0.6
0.55
0.5
0.45

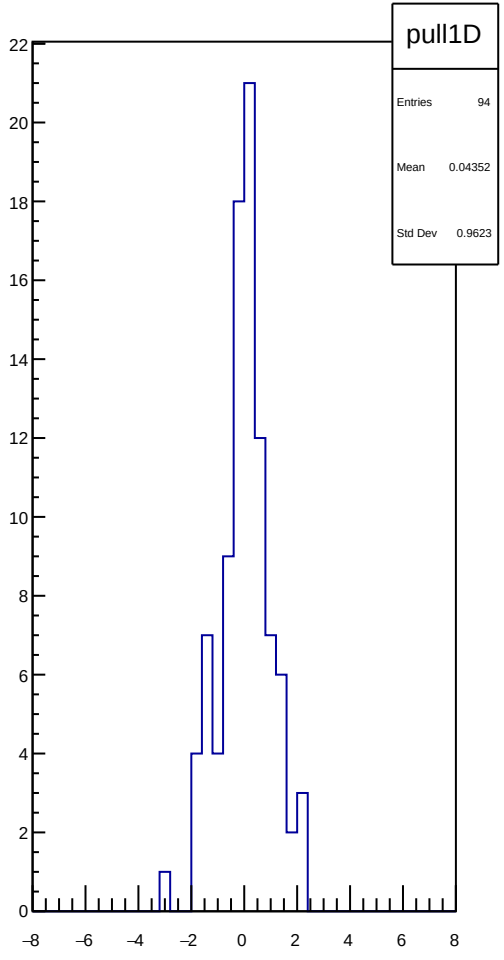

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.98 / 93
p0 0.006672 ± 0.01782
pull
Entries 94
Mean 480.2
Std Dev 0
pull1D
Entries 94
Mean 0.00487
Std Dev 0.9674

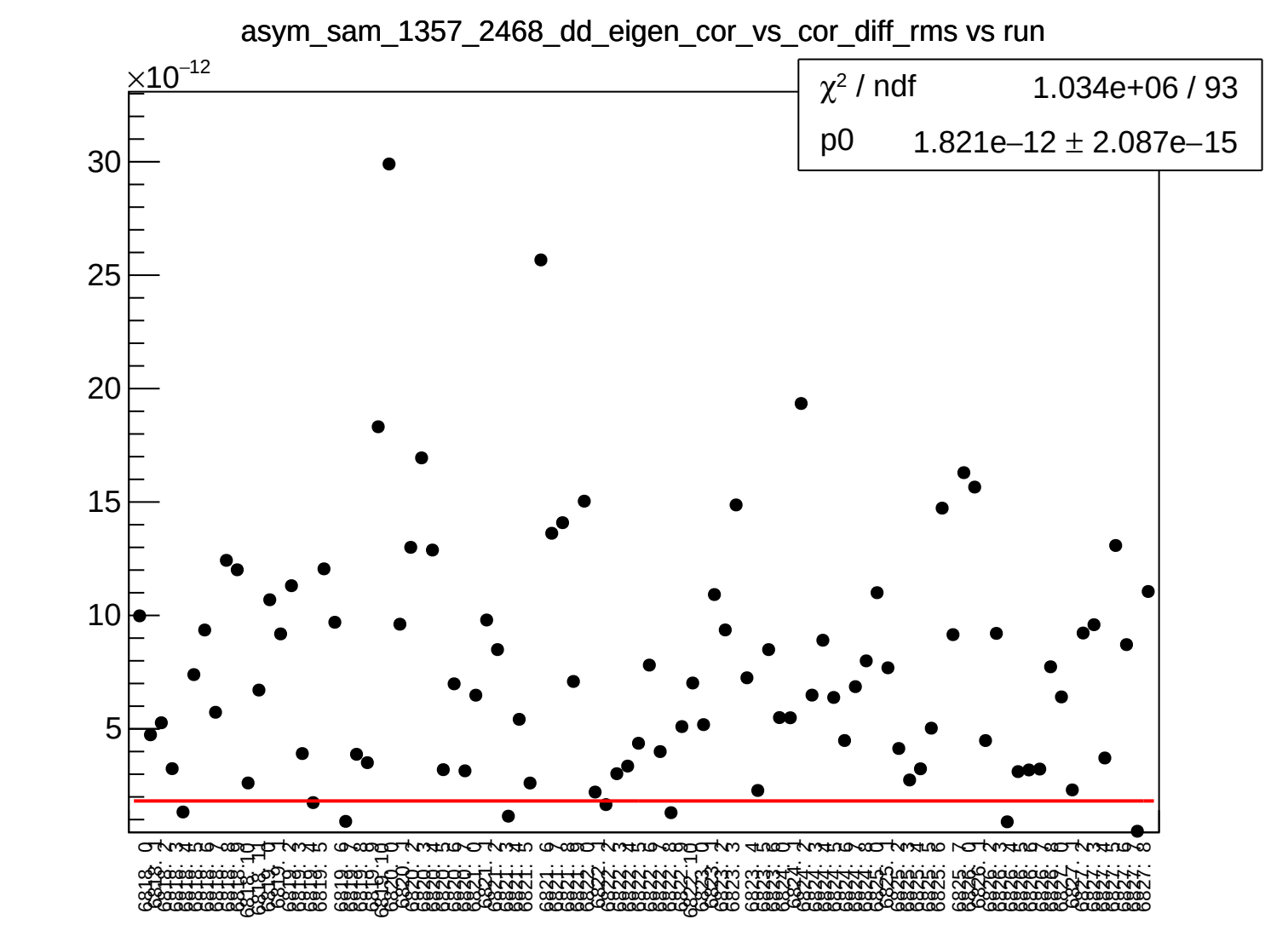

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4047 / 93
p0 16.87 ± 0.0126
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

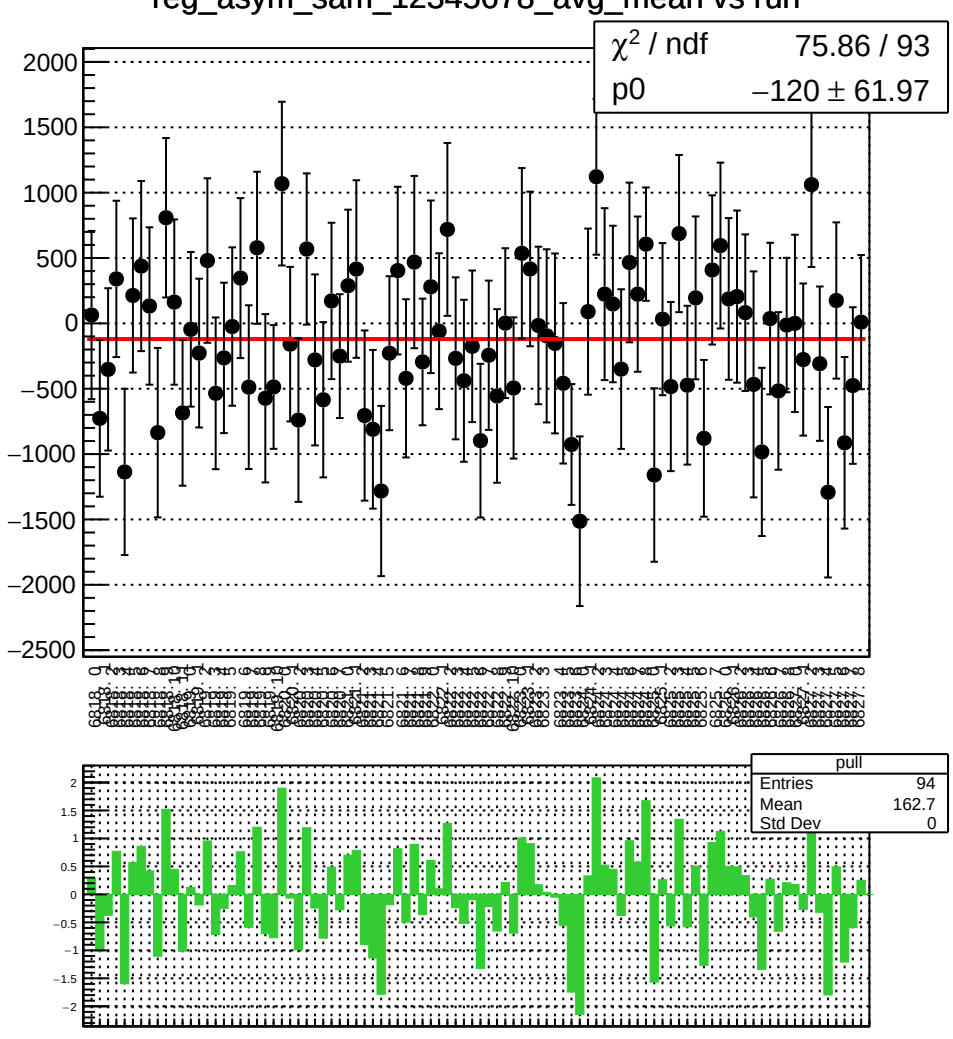

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.98 / 93
p0 0.006672 ± 0.01782
pull
Entries 94
Mean 480.2
Std Dev 0
pull1D
Entries 94
Mean 0.00487
Std Dev 0.9674

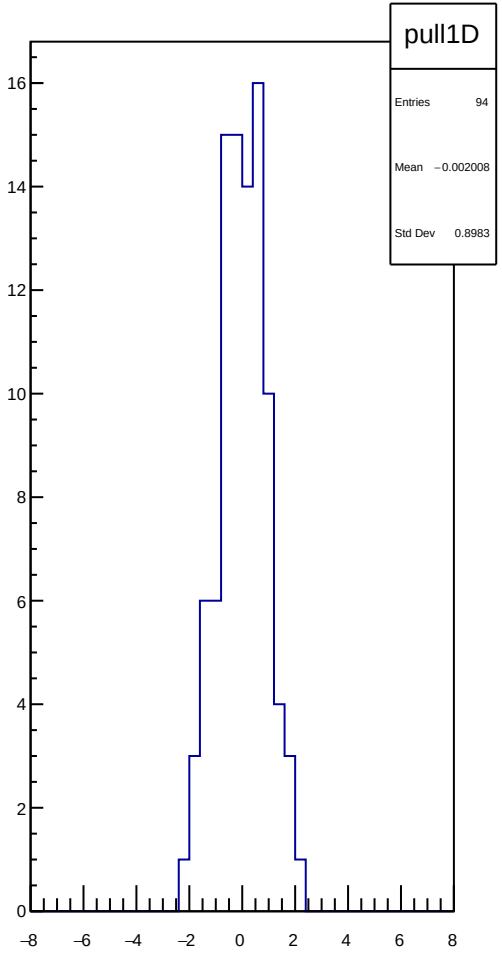

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4047 / 93
p0 16.87 ± 0.0126
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

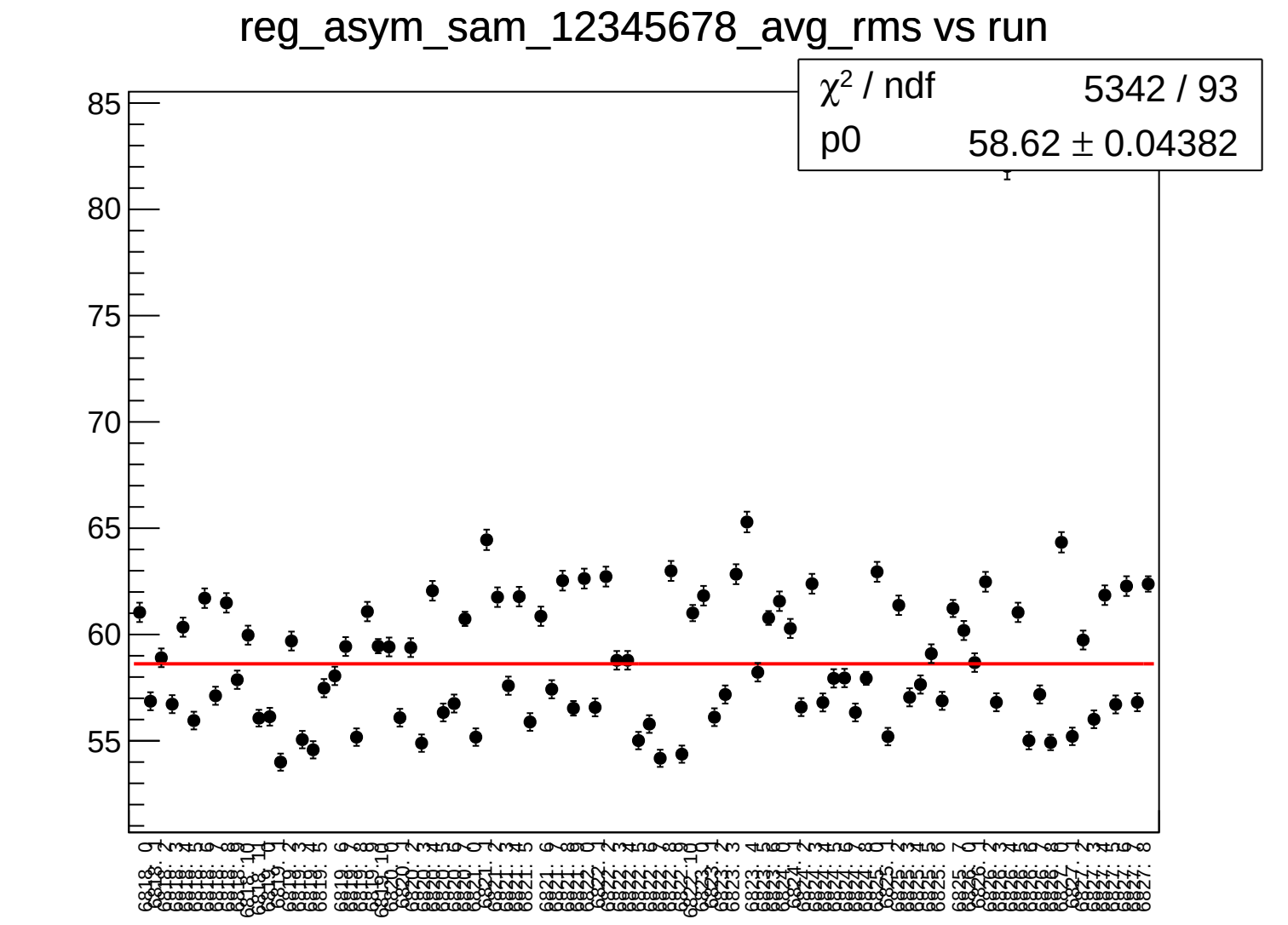

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.22 / 93
p0 4.104e−15 ± 2.951e−15
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 94
Mean 37.51
Std Dev 52.82
2
1
0
−1
−2
−3

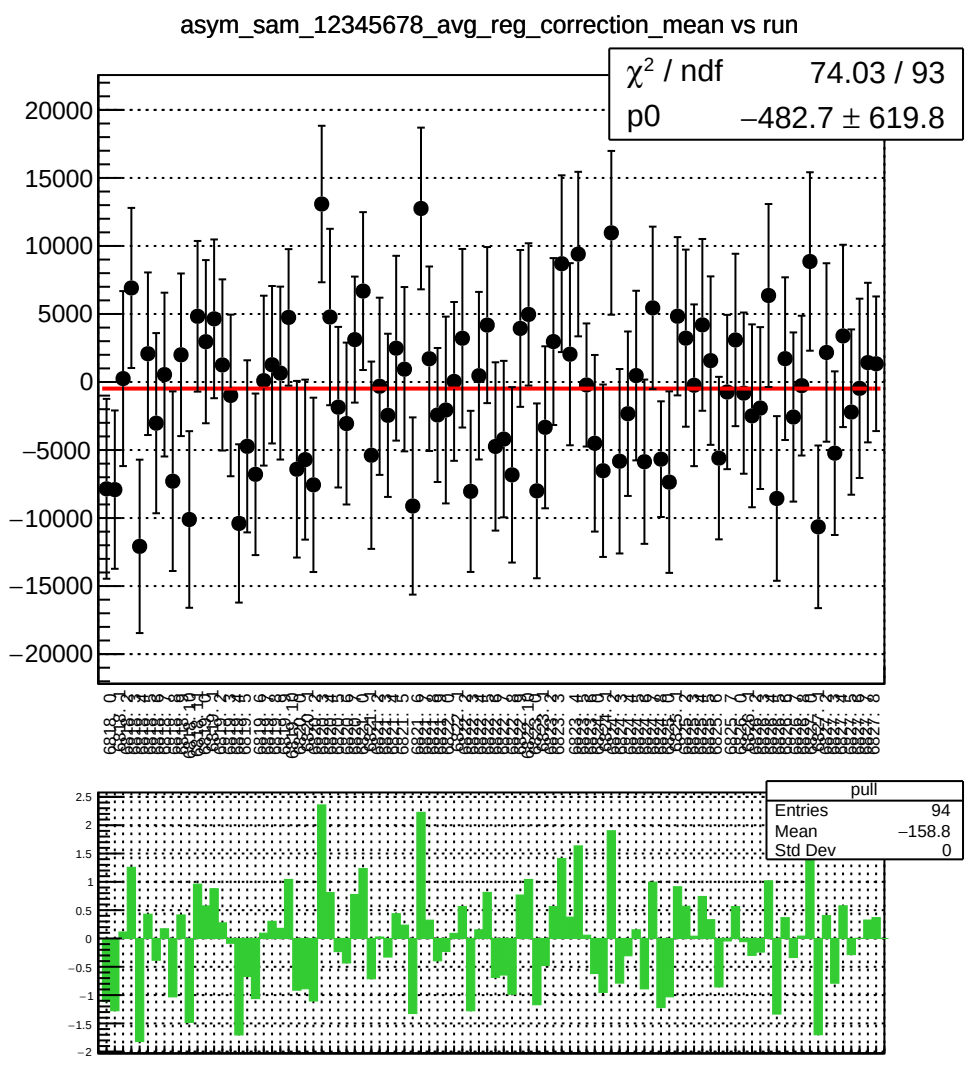

pull1D
Entries 94
Mean 0.04352
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

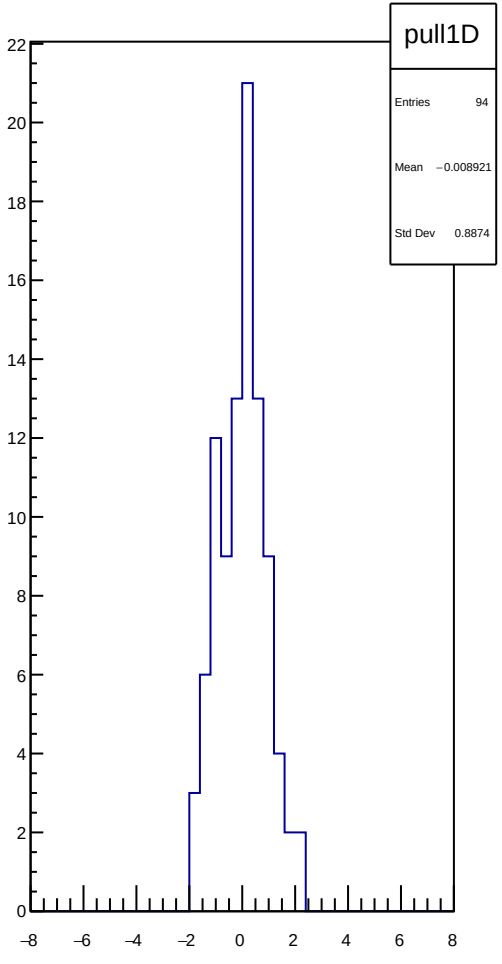

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.034e+06 / 93
p0 1.821e−12 ± 2.087e−15
30
25
20
15
10
5

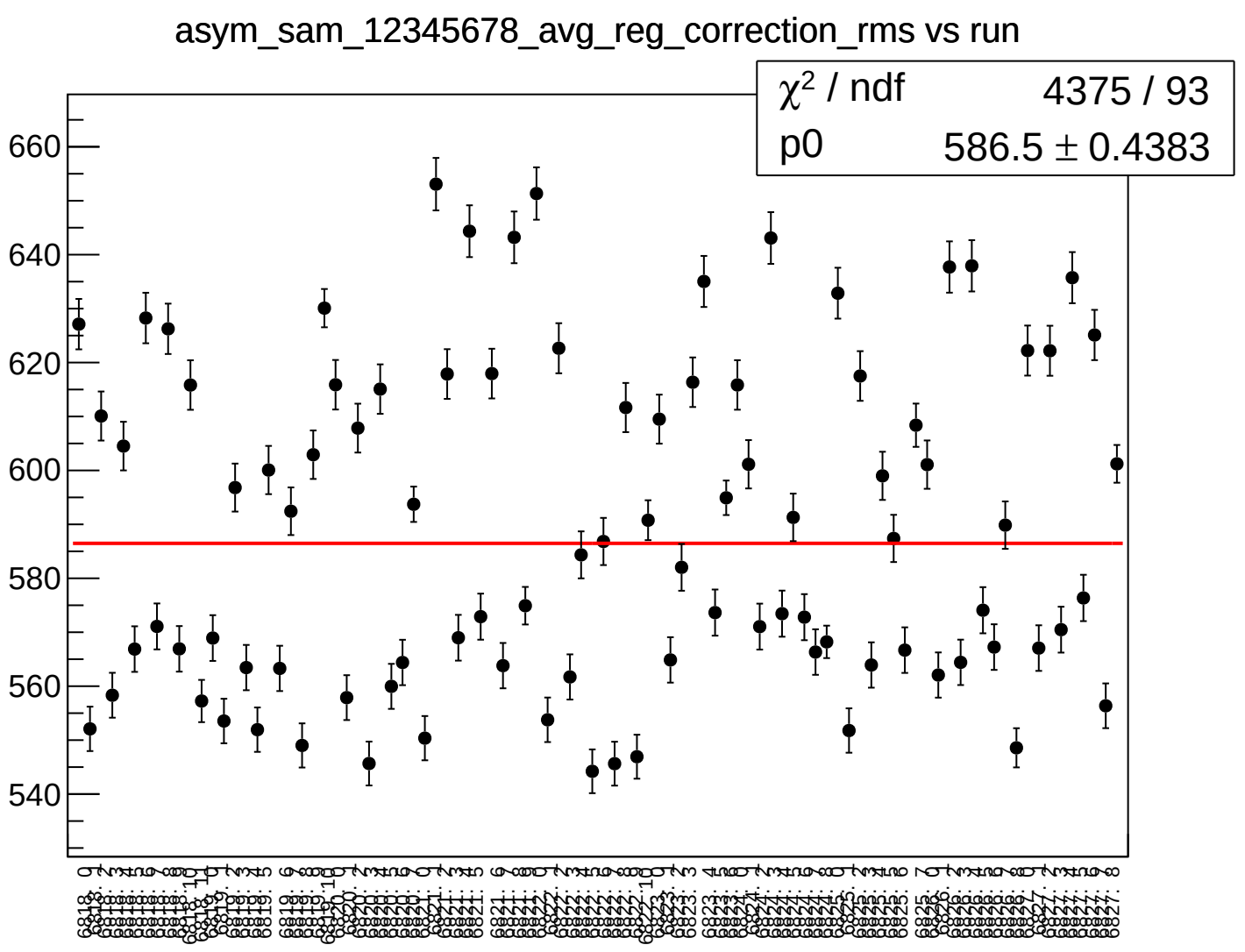

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.86 / 93
p0 −120 ± 61.97
pull
Entries 94
Mean 162.7
Std Dev 0

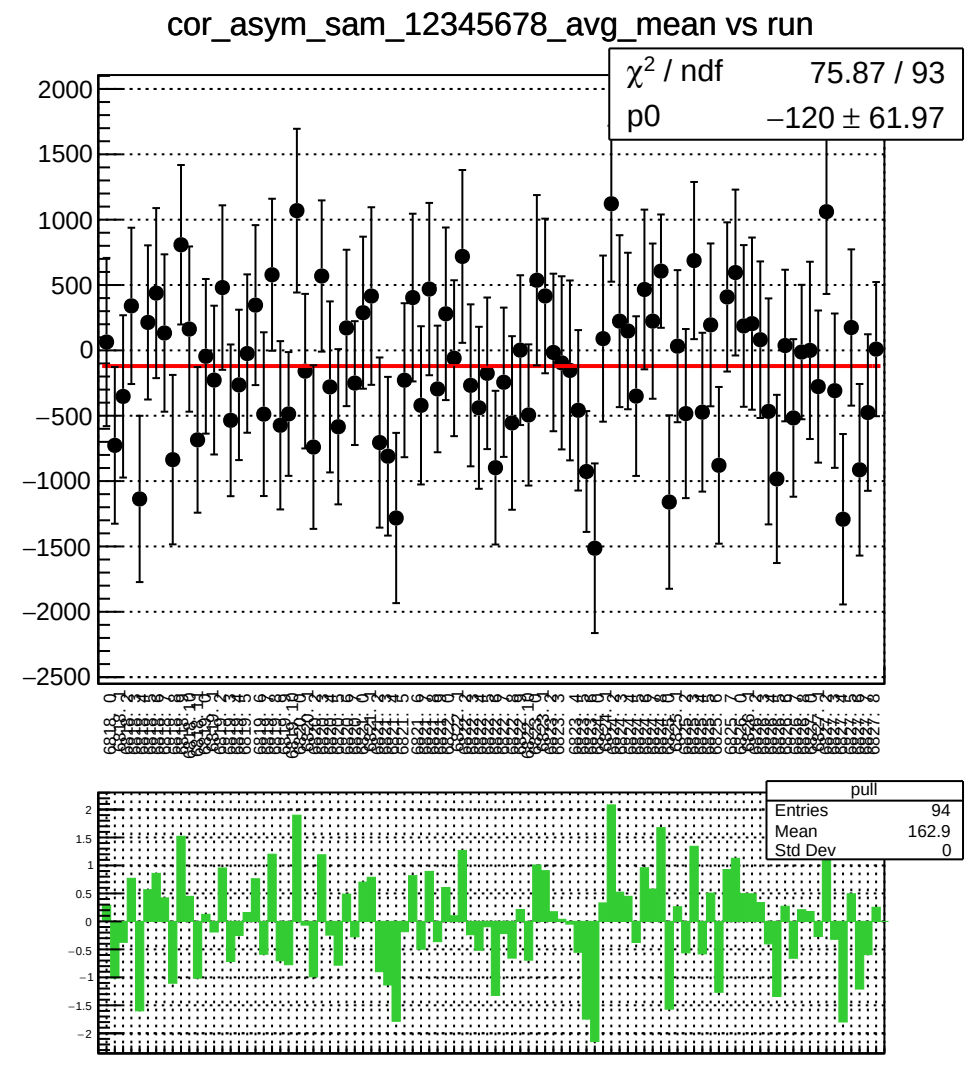

pull1D
Entries 94
Mean −0.002008
Std Dev 0.8983

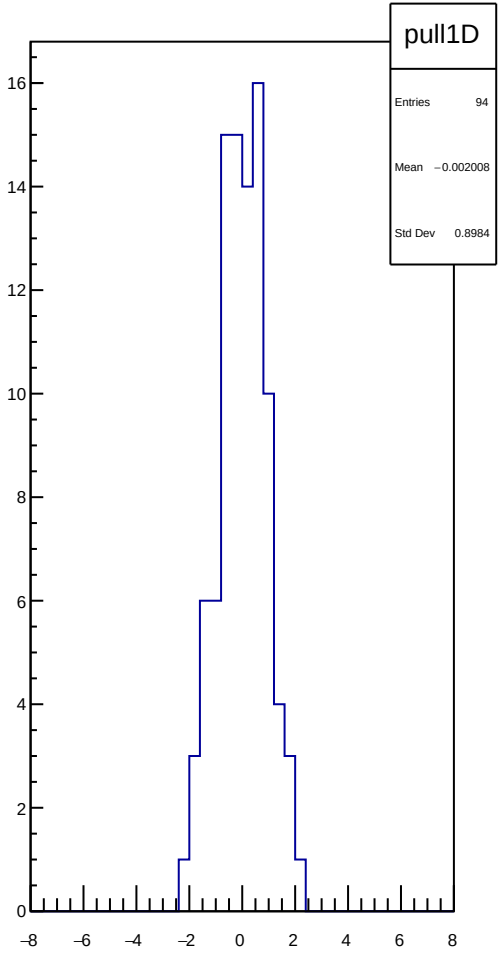

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 5342 / 93
p0 58.62 ± 0.04382
85
80
75
70
65
60
55

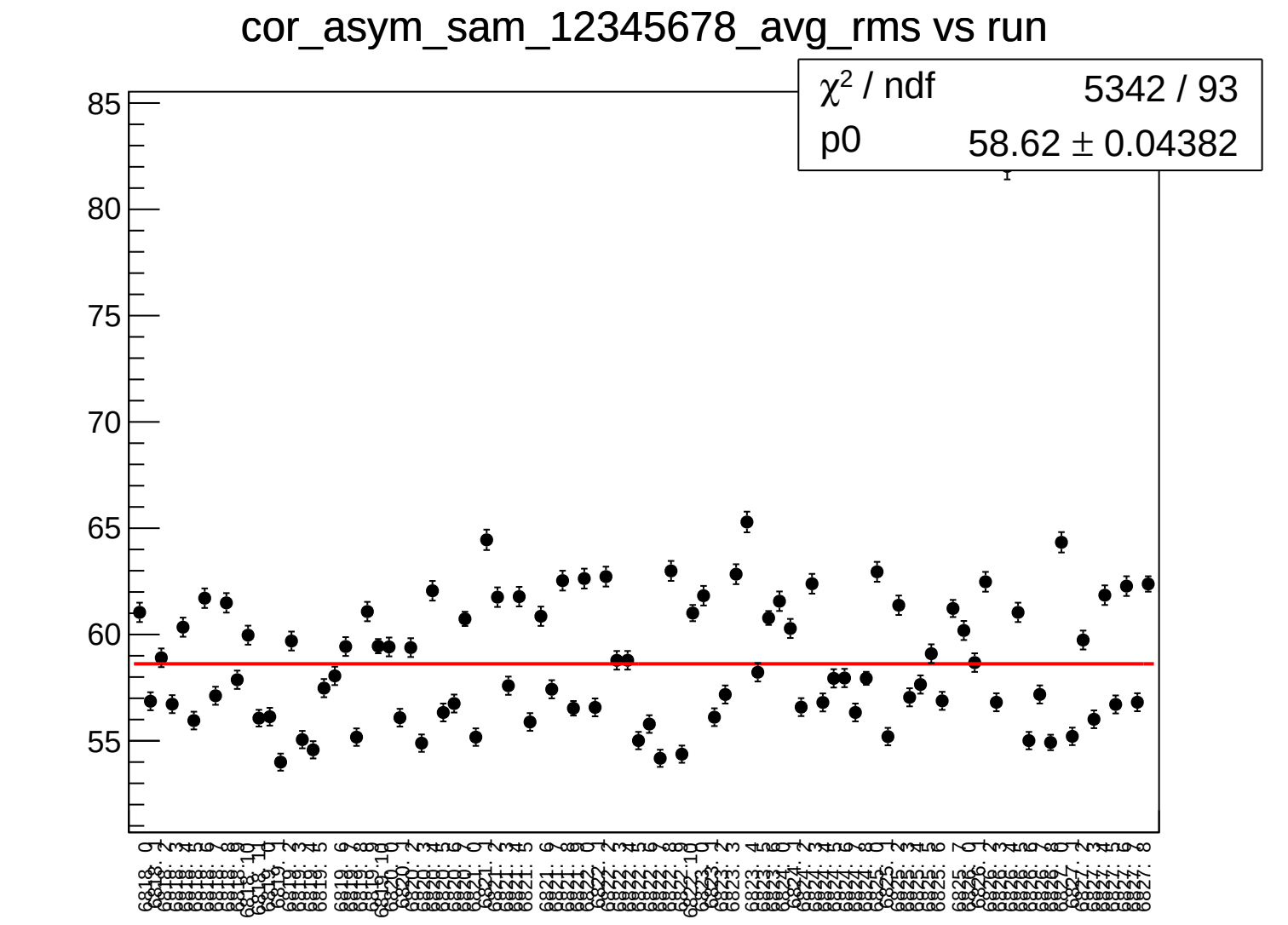

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 74.03 / 93
p0 −482.7 ± 619.8
pull
Entries 94
Mean −158.8
Std Dev 0

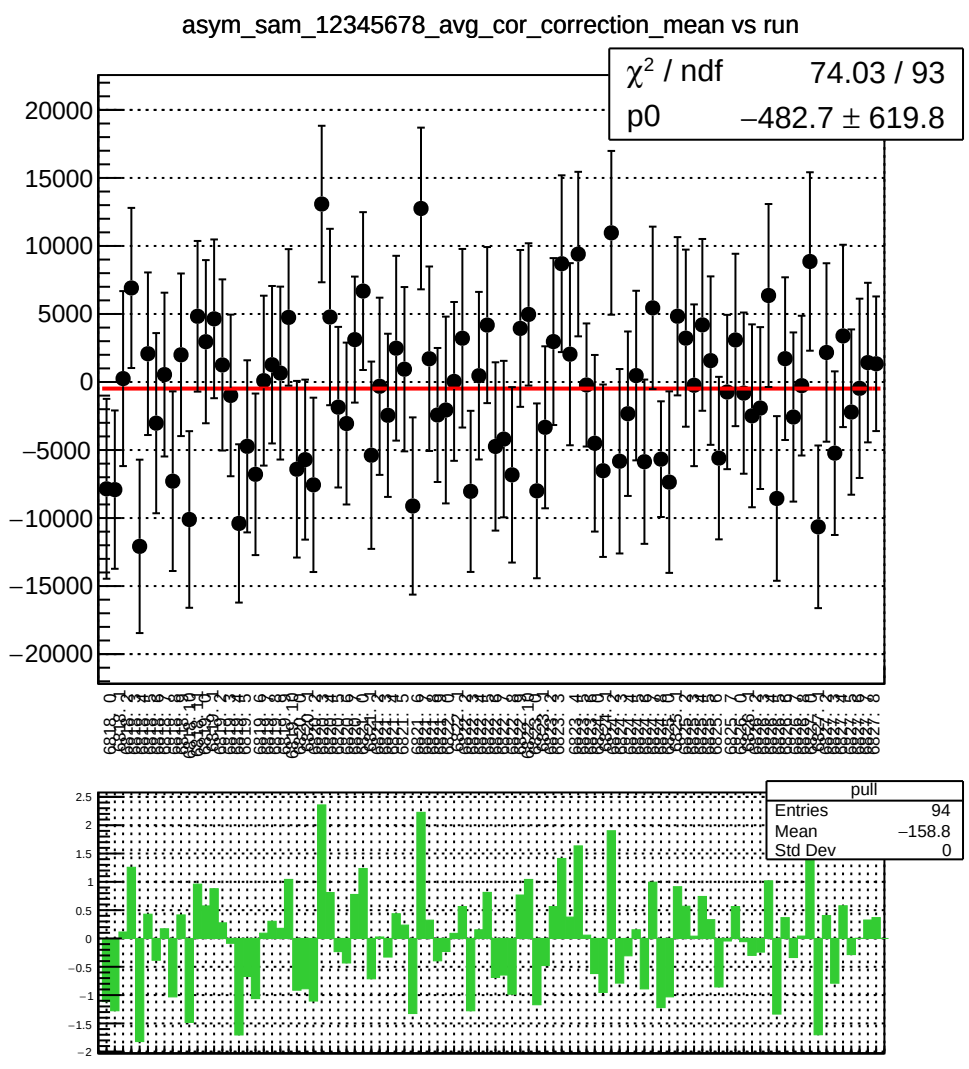

pull1D
Entries 94
Mean −0.008921
Std Dev 0.8874

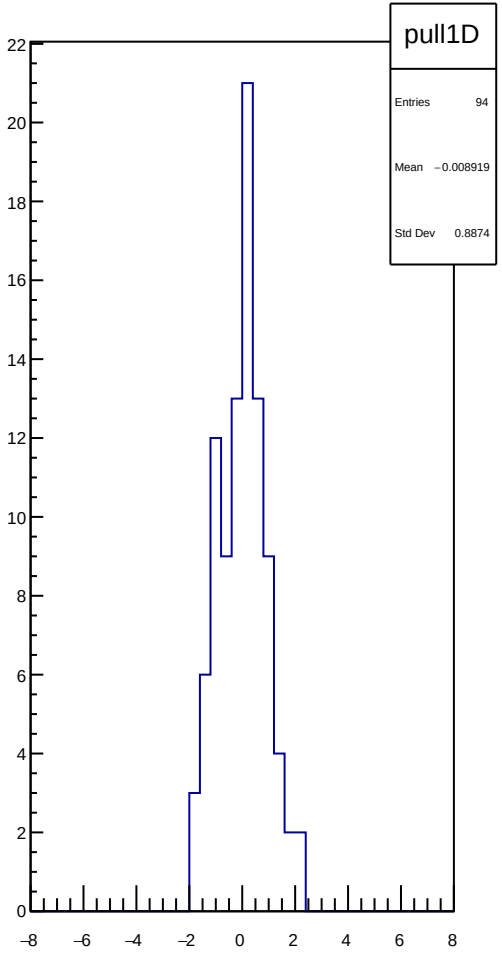

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 4375 / 93
p0 586.5 ± 0.4383
660
640
620
600
580
560
540

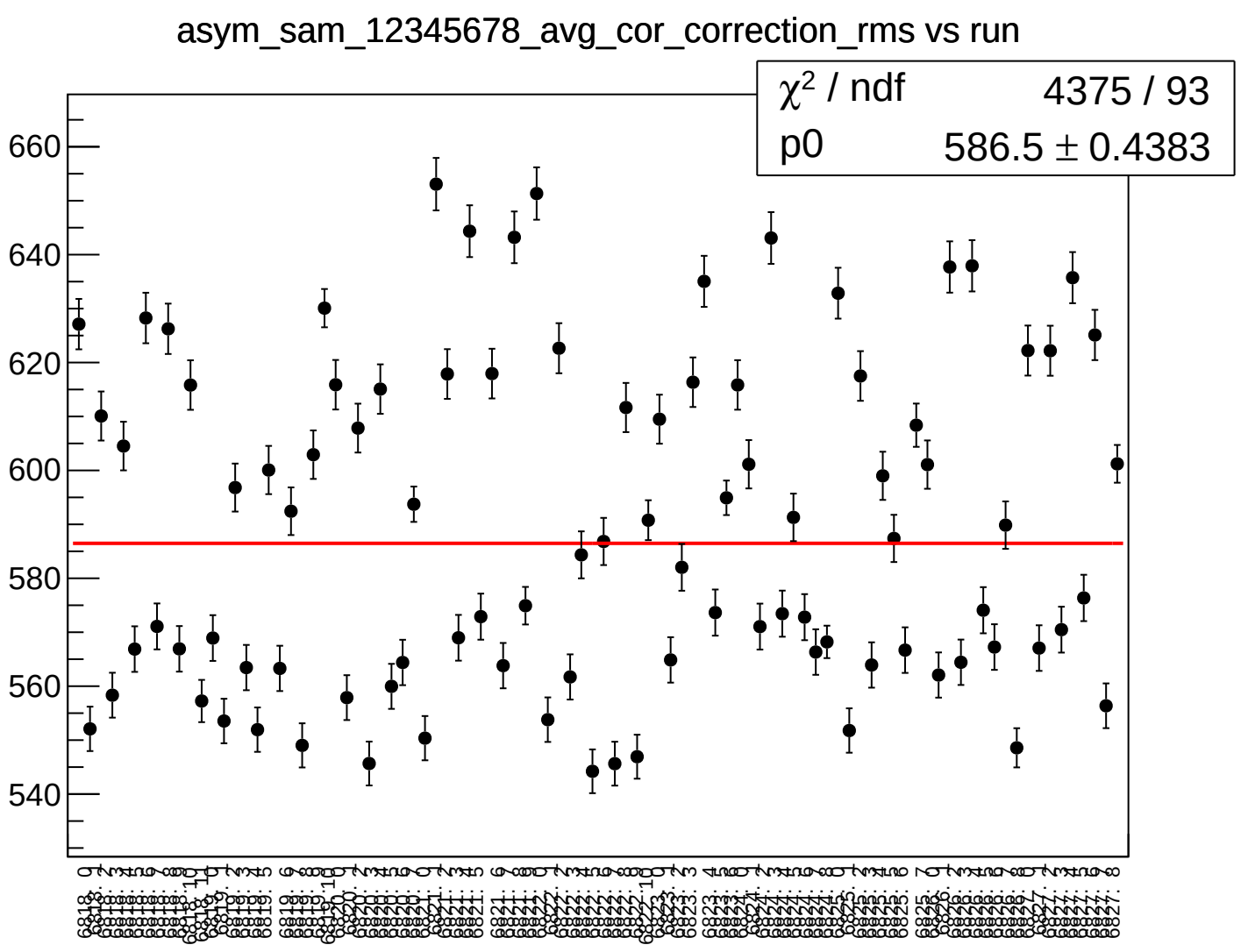

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.87 / 93
p0 −120 ± 61.97
pull
Entries 94
Mean 162.9
Std Dev 0

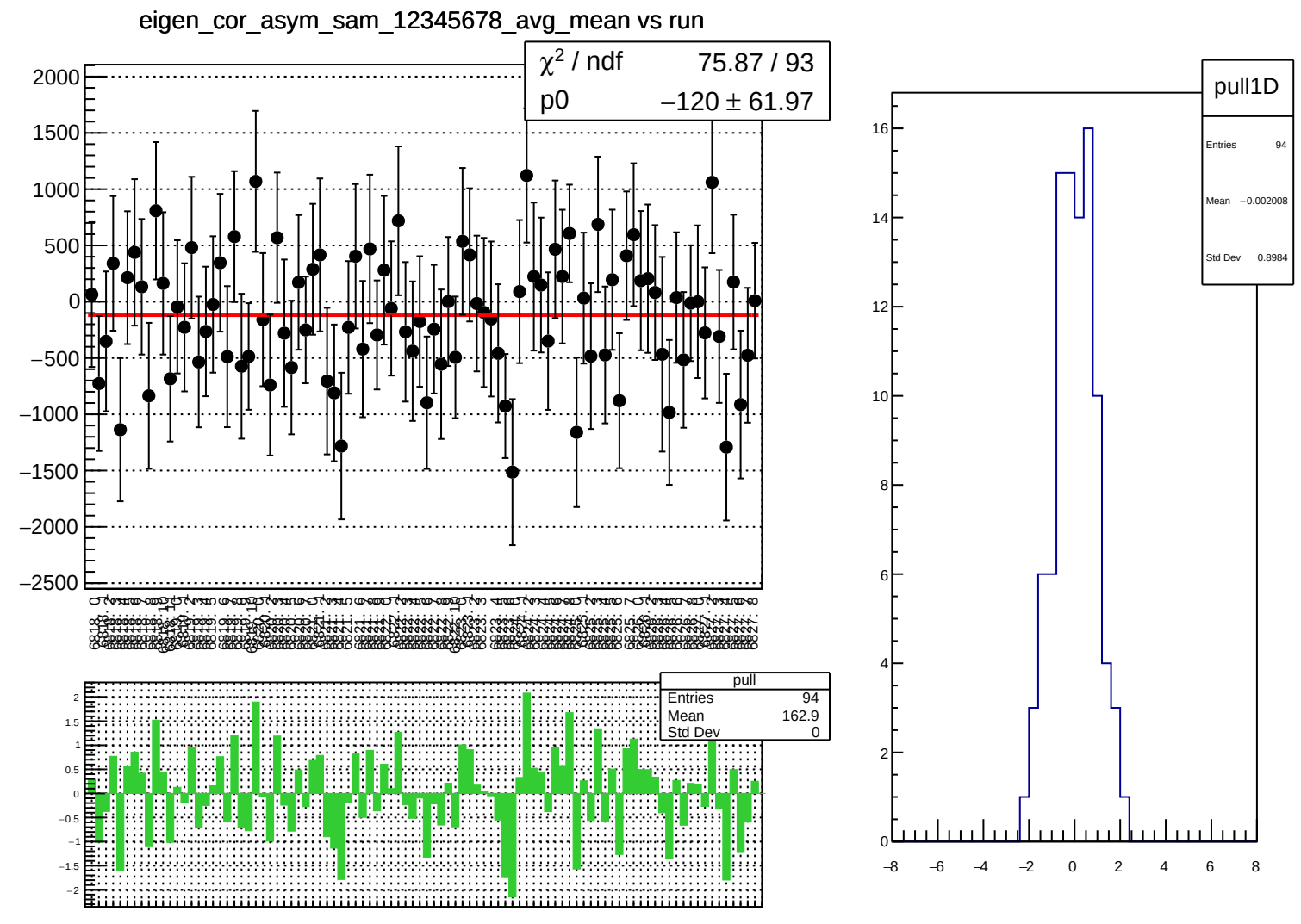

pull1D
Entries 94
Mean −0.002008
Std Dev 0.8984

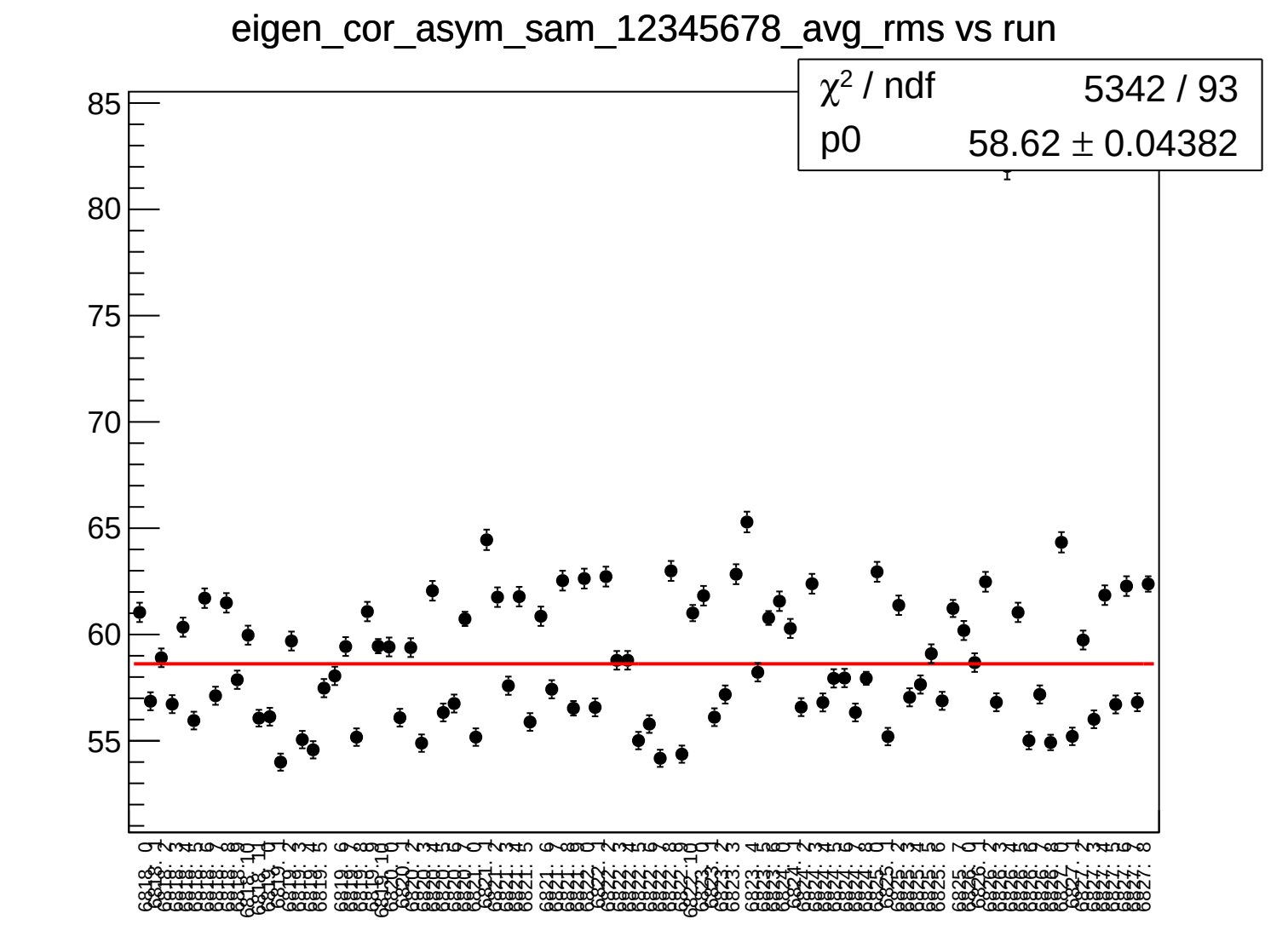

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 5342 / 93
p0 58.62 ± 0.04382
85
80
75
70
65
60
55

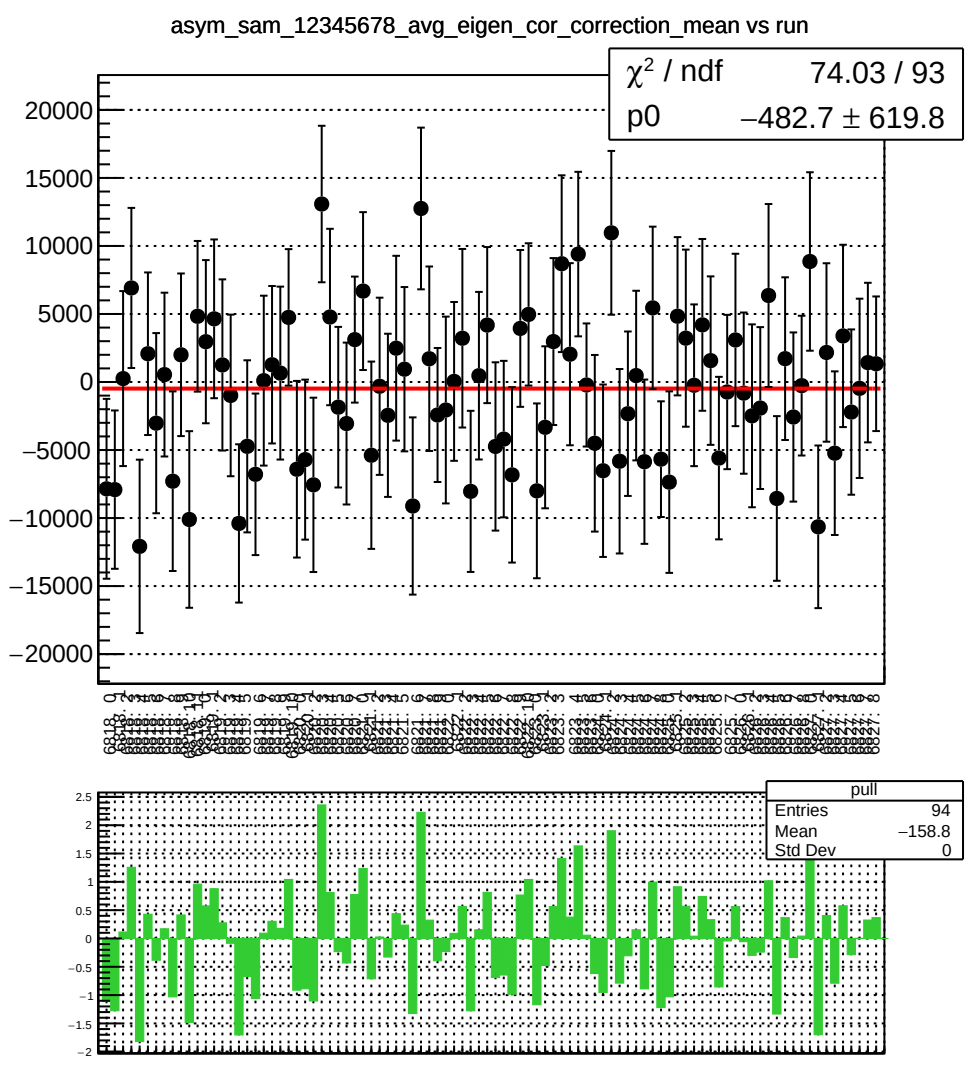

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 74.03 / 93
p0 −482.7 ± 619.8
pull
Entries 94
Mean −158.8
Std Dev 0

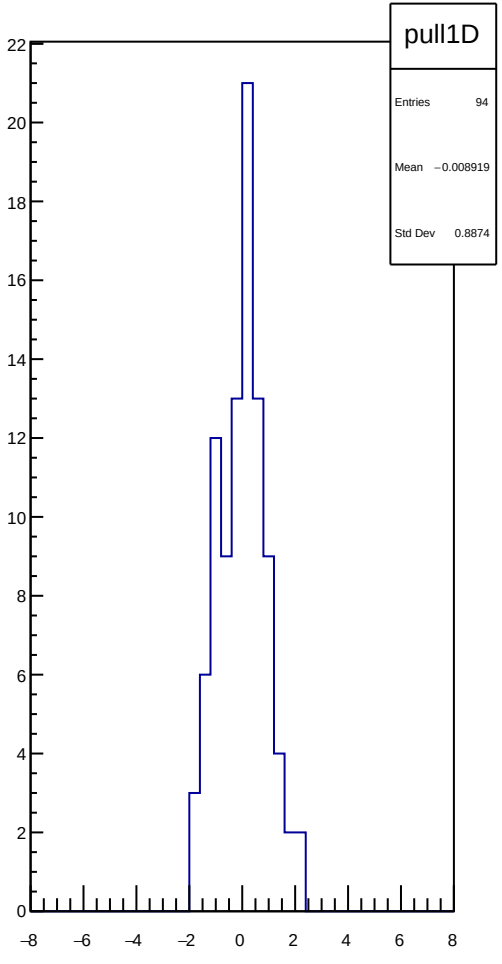

pull1D
Entries 94
Mean −0.008919
Std Dev 0.8874

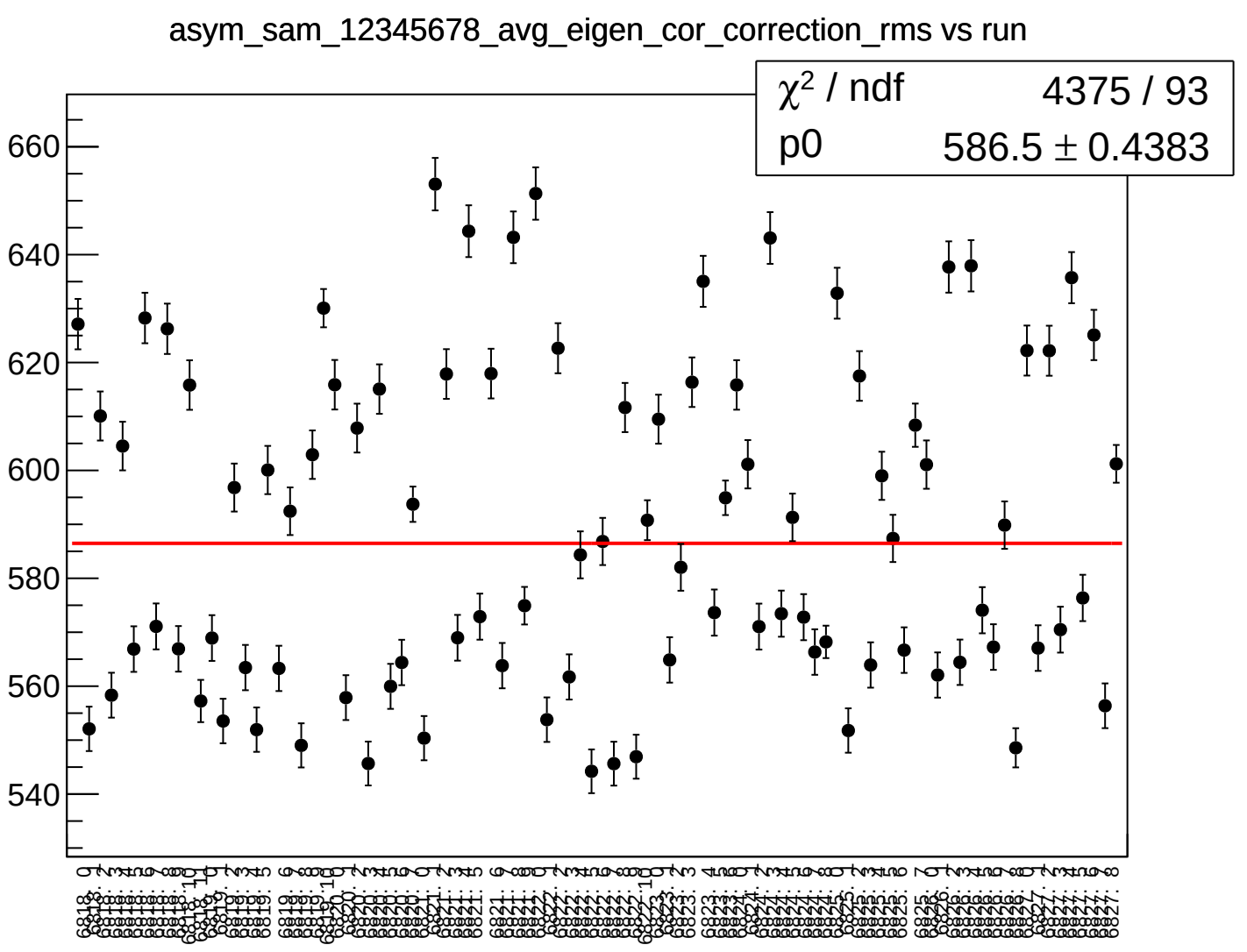

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 4375 / 93
p0 586.5 ± 0.4383
660
640
620
600
580
560
540

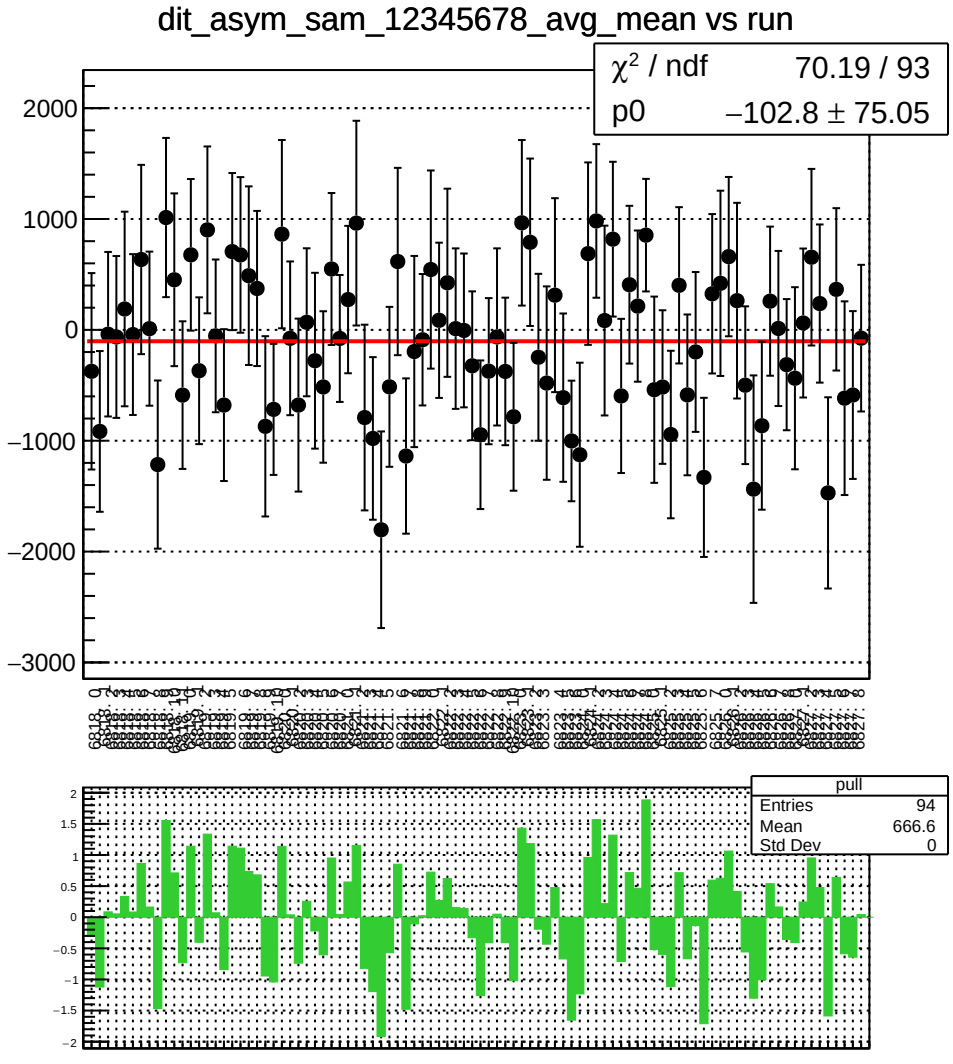

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 75.87 / 93
p0 −120 ± 61.97
pull
Entries 94
Mean 162.9
Std Dev 0
pull1D
Entries 94
Mean −0.002008
Std Dev 0.8984

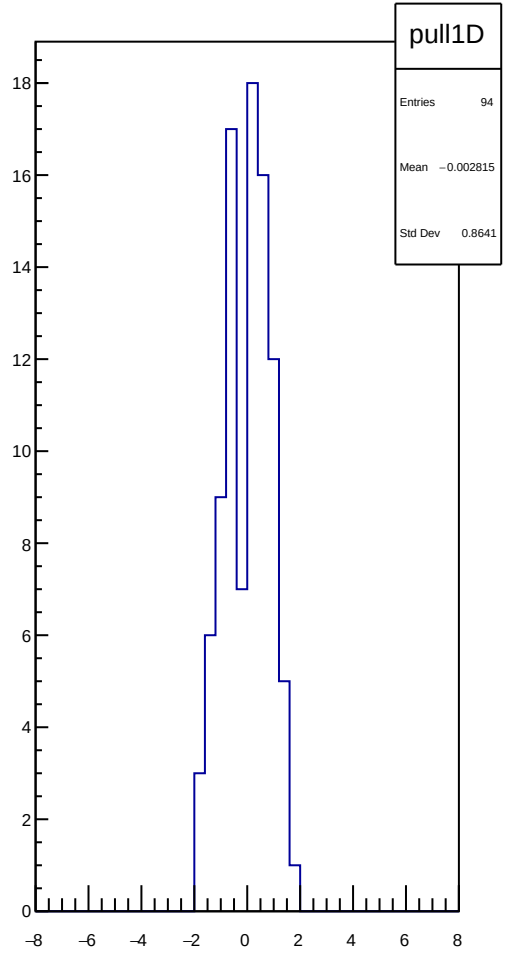

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 5342 / 93
p0 58.62 ± 0.04382
85
80
75
70
65
60
55

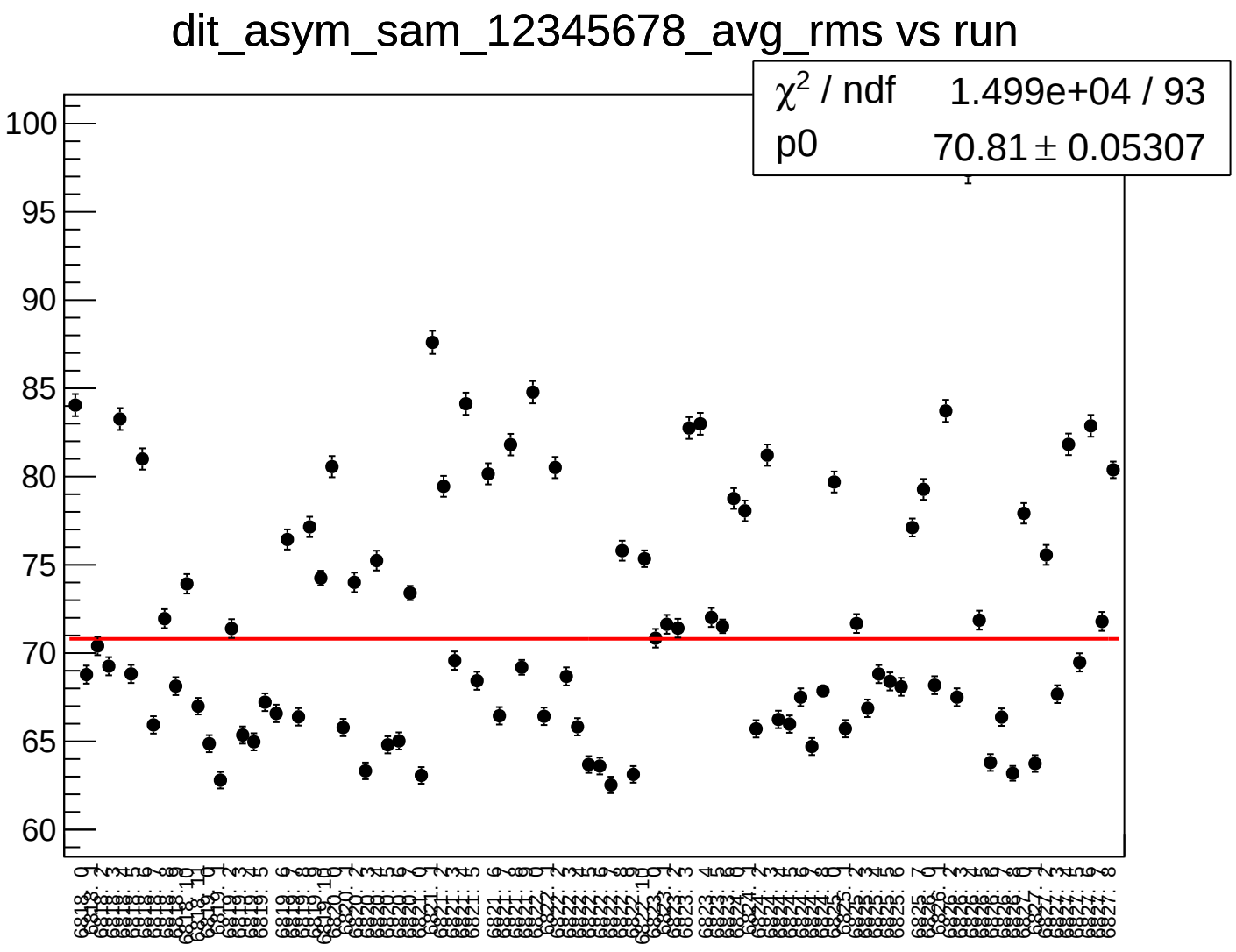

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.03 / 93
p0 −482.7 ± 619.8
pull
Entries 94
Mean −158.8
Std Dev 0

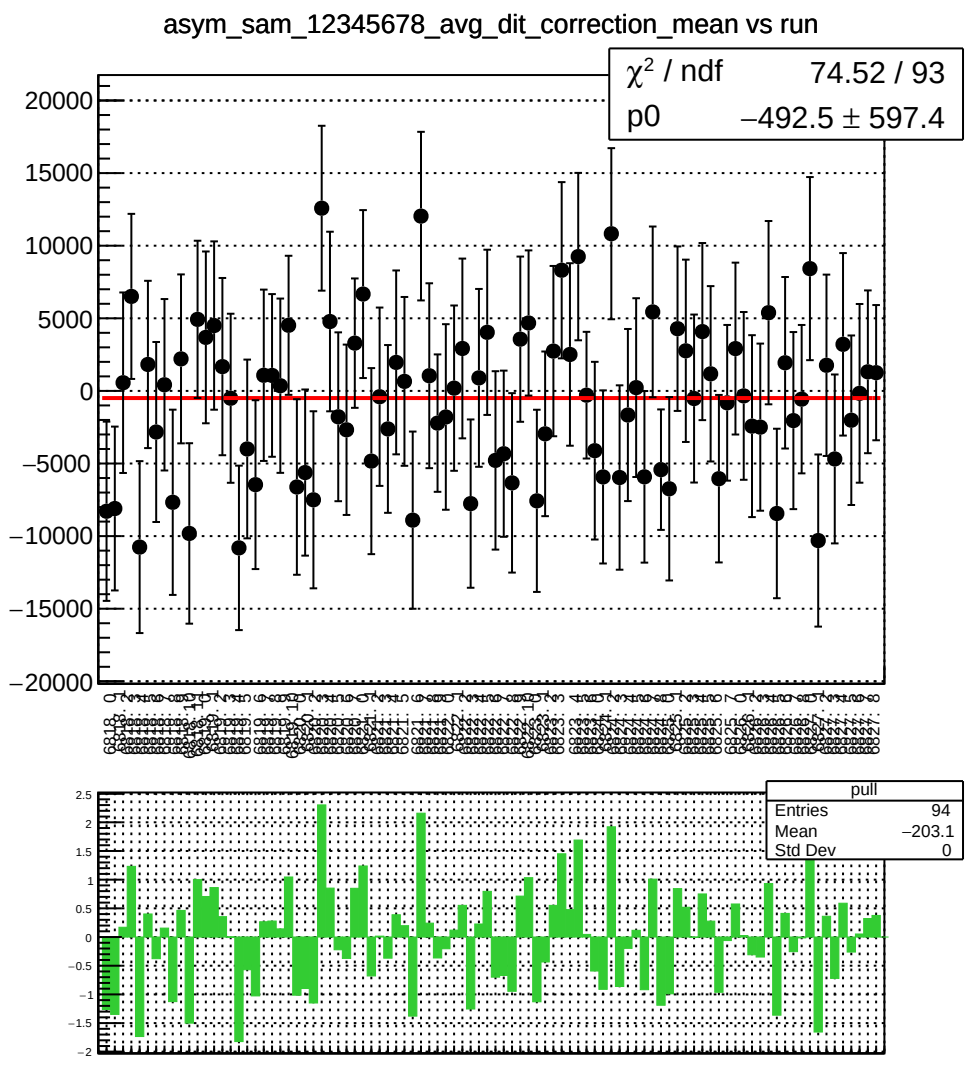

pull1D
Entries 94
Mean −0.008919
Std Dev 0.8874

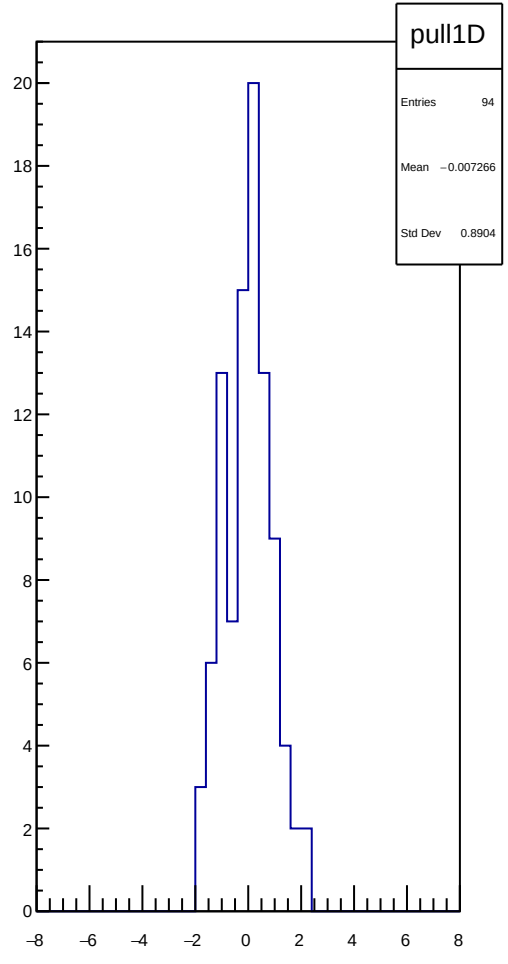

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 4375 / 93
p0 586.5 ± 0.4383
660
640
620
600
580
560
540

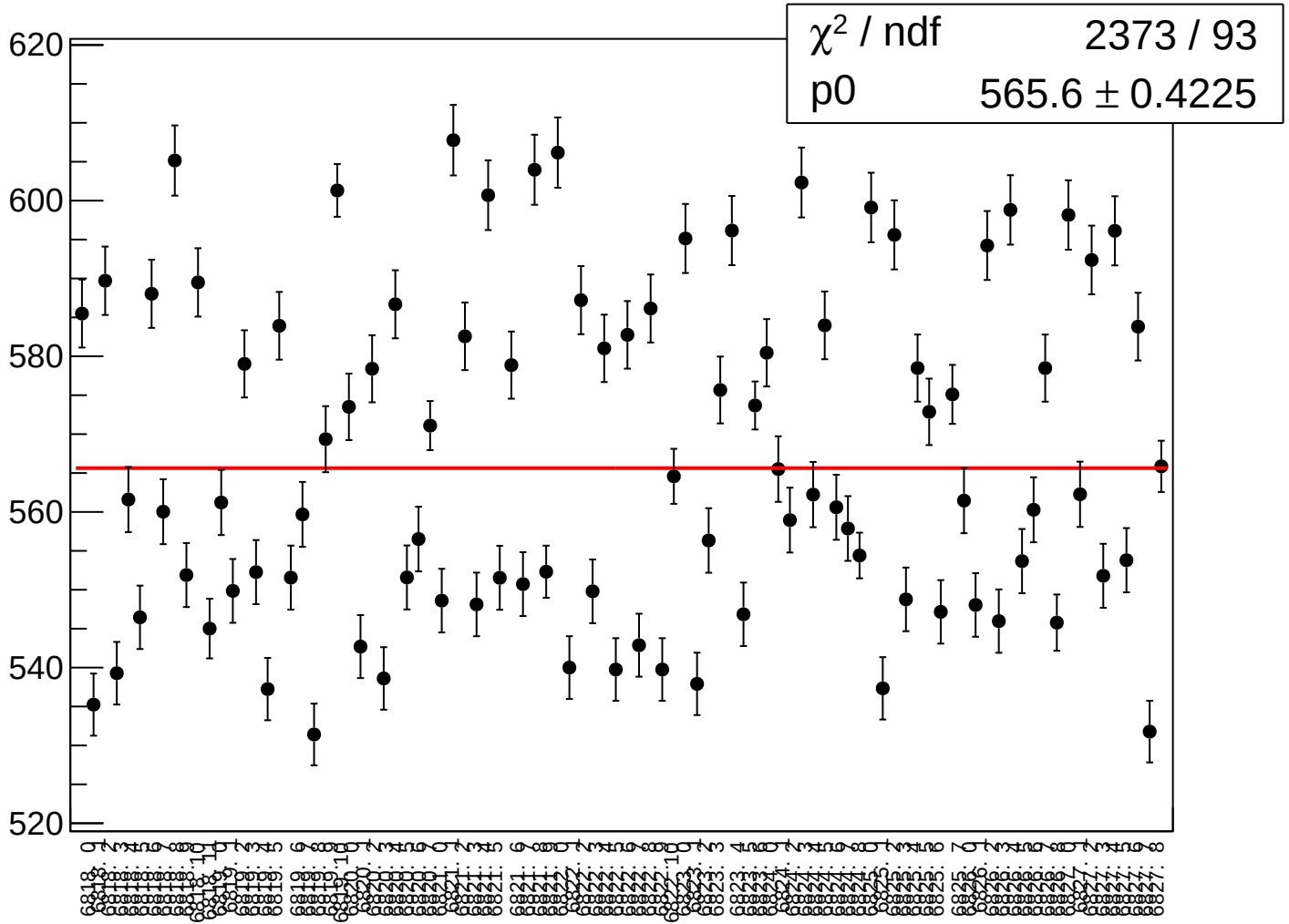

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 70.19 / 93
p0 −102.8 ± 75.05
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 666.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

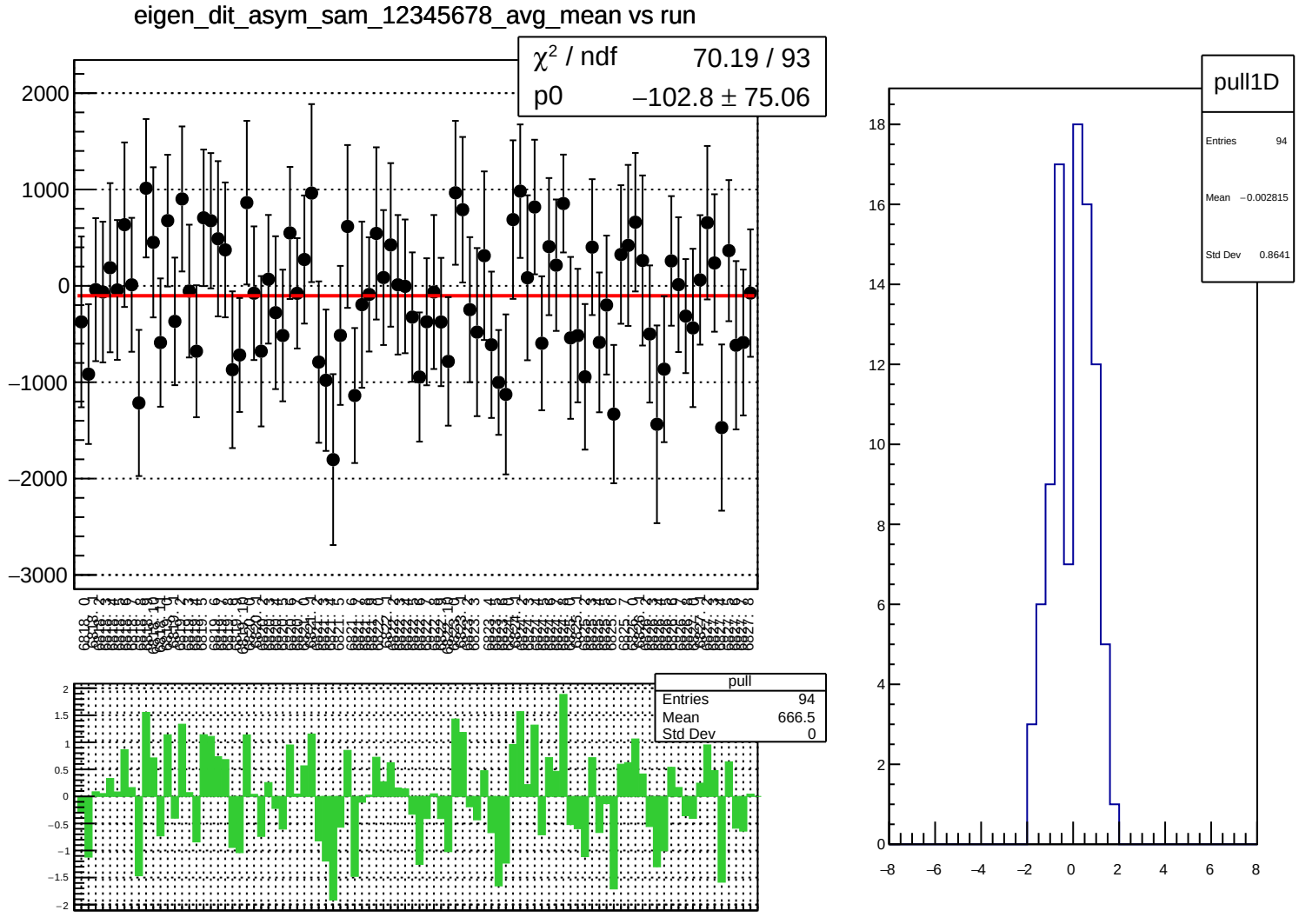

pull1D
Entries 94
Mean −0.002815
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

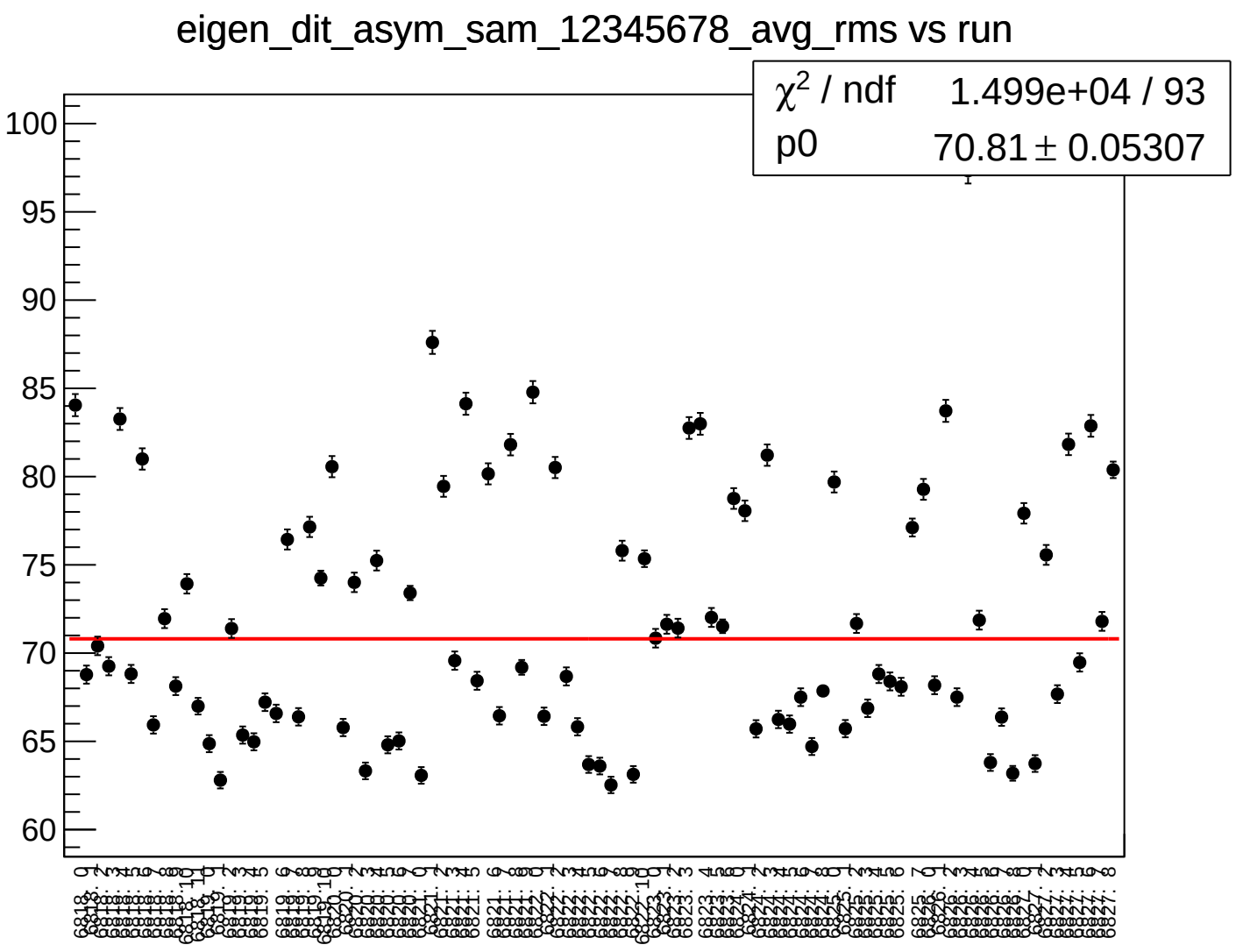

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.499e+04 / 93
p0 70.81 ± 0.05307
100
95
90
85
80
75
70
65
60

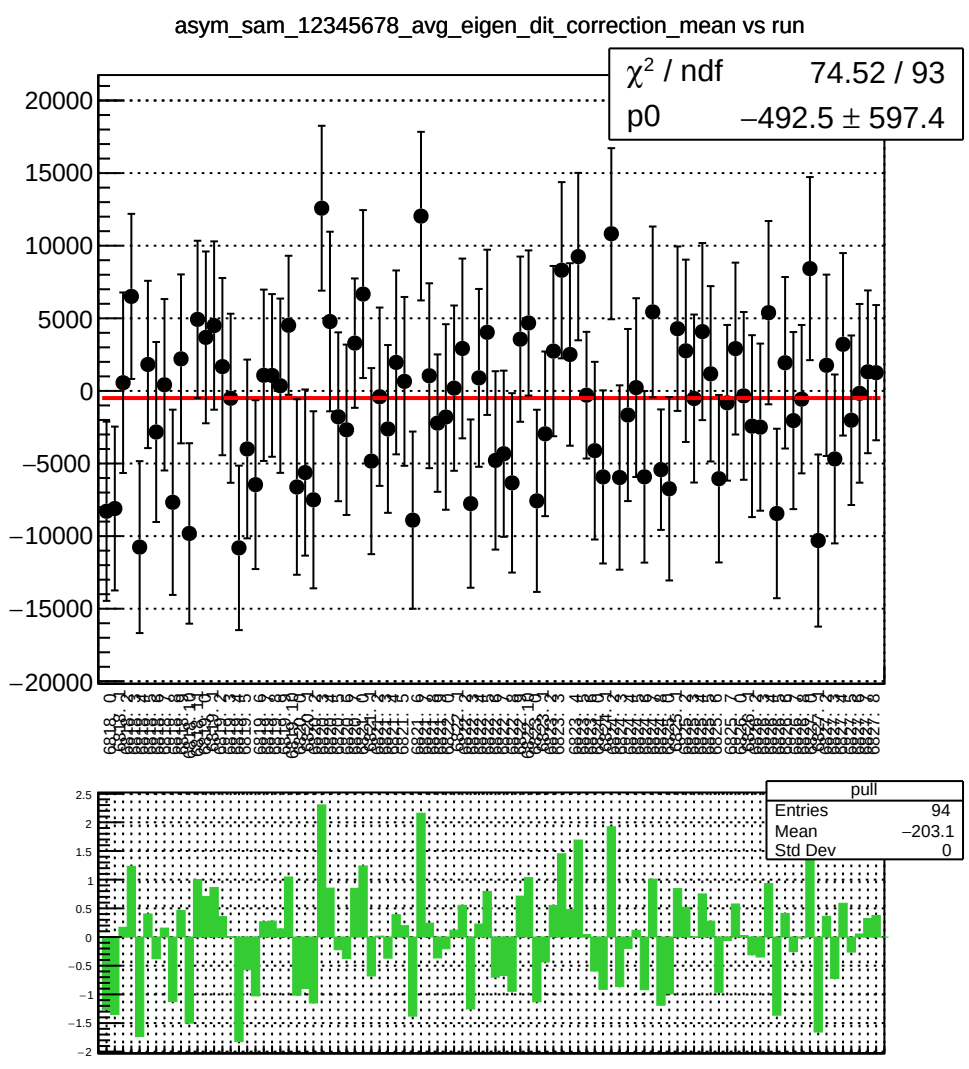

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 74.52 / 93
p0 −492.5 ± 597.4
pull
Entries 94
Mean −203.1
Std Dev 0

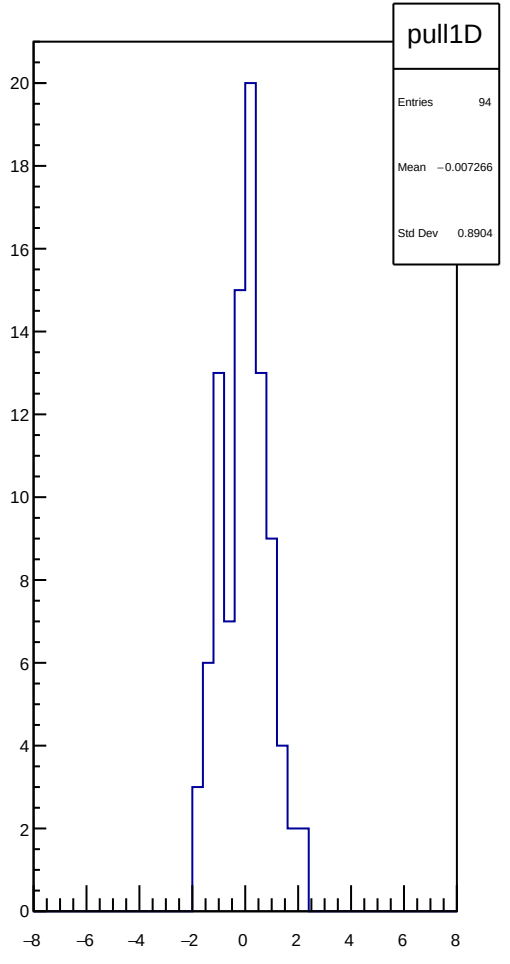

pull1D
Entries 94
Mean −0.007266
Std Dev 0.8904

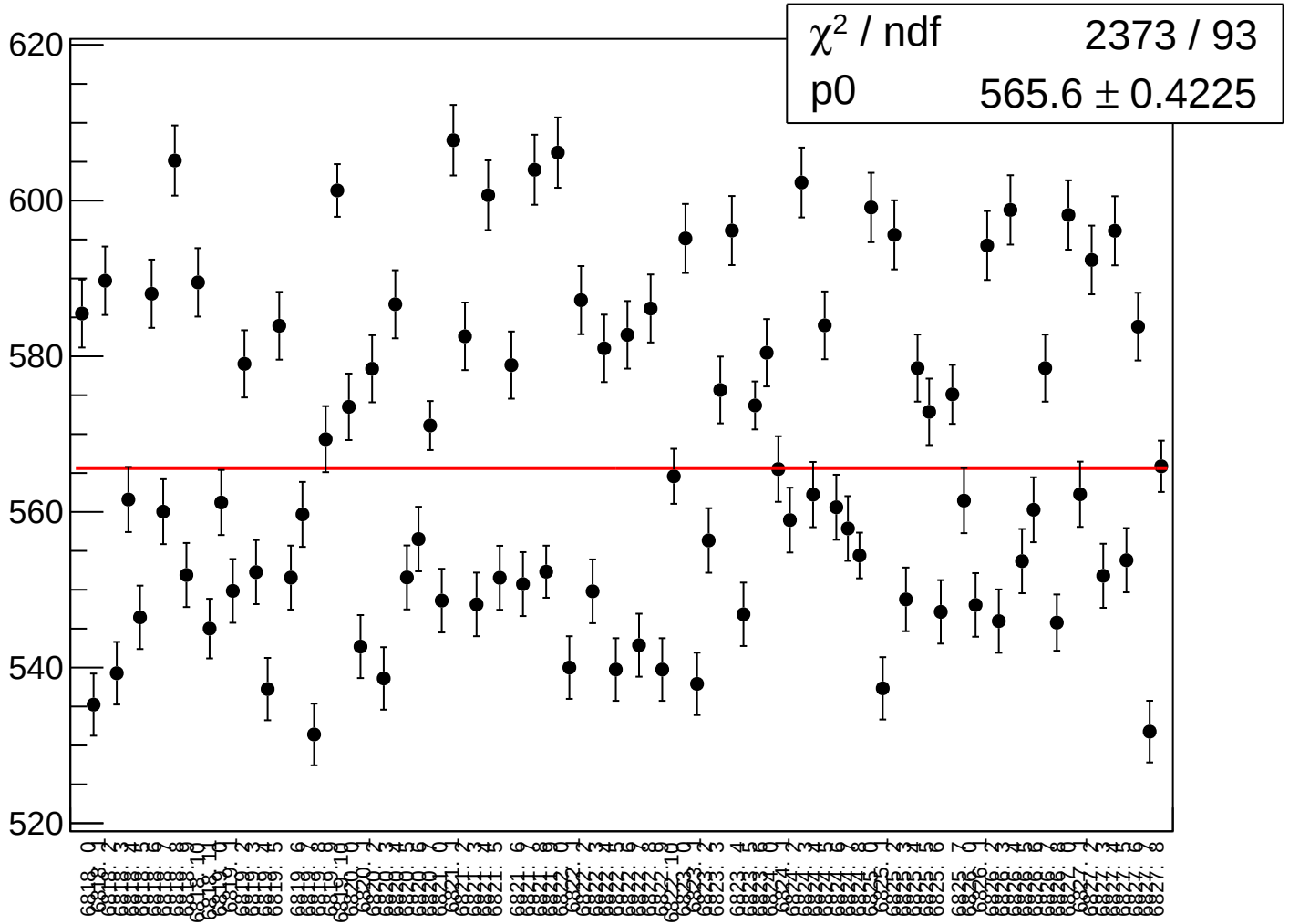

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 2373 / 93
p0 565.6 ± 0.4225
620
600
580
560
540
520

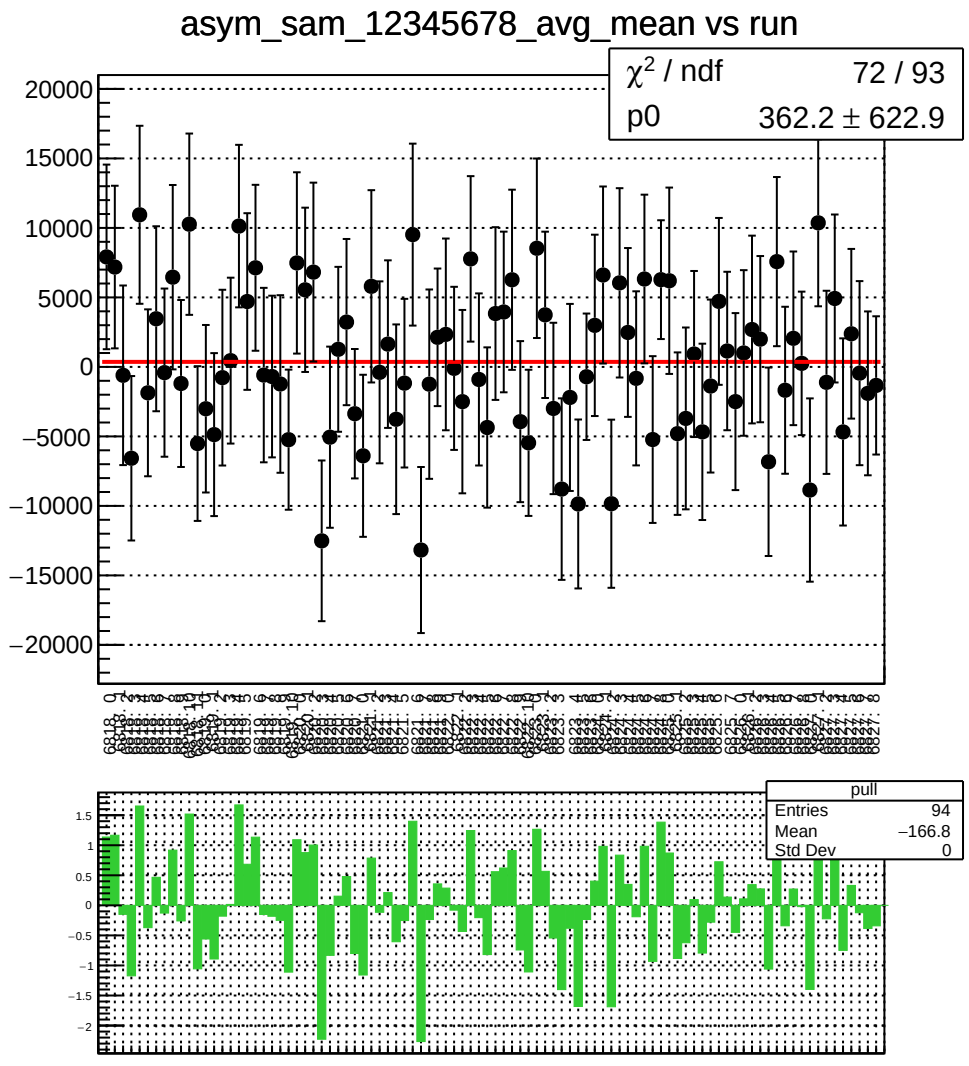

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 70.19 / 93
p0 −102.8 ± 75.06
2000
1000
0
−1000
−2000
−3000
pull
Entries 94
Mean 666.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.002815
Std Dev 0.8641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

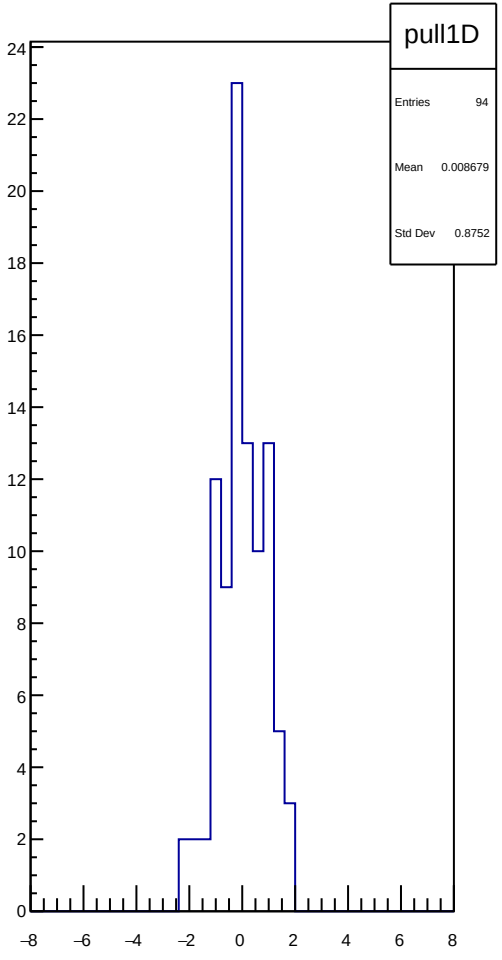

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.499e+04 / 93
p0 70.81 ± 0.05307
100
95
90
85
80
75
70
65
60

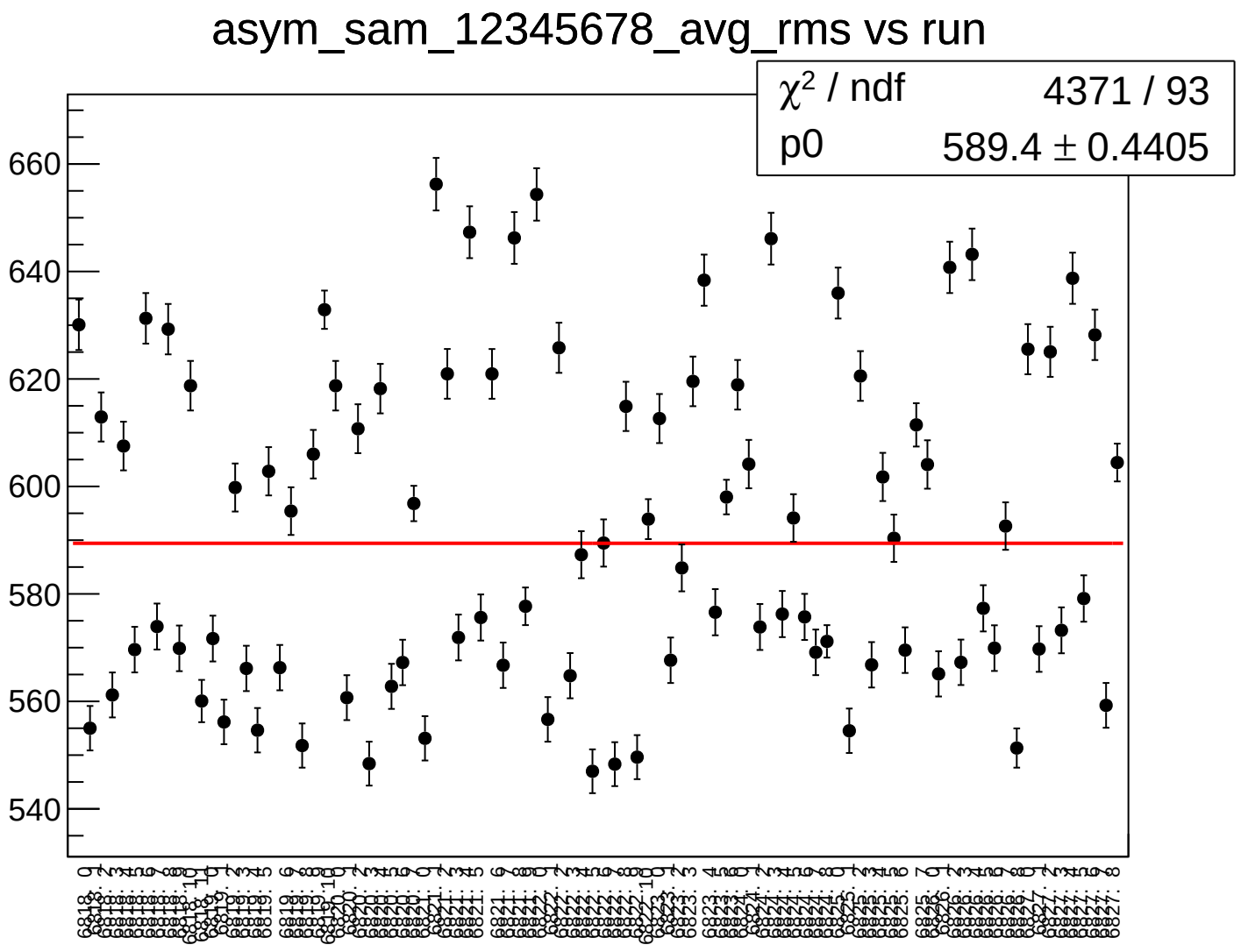

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.52 / 93
p0 −492.5 ± 597.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 94
Mean −203.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

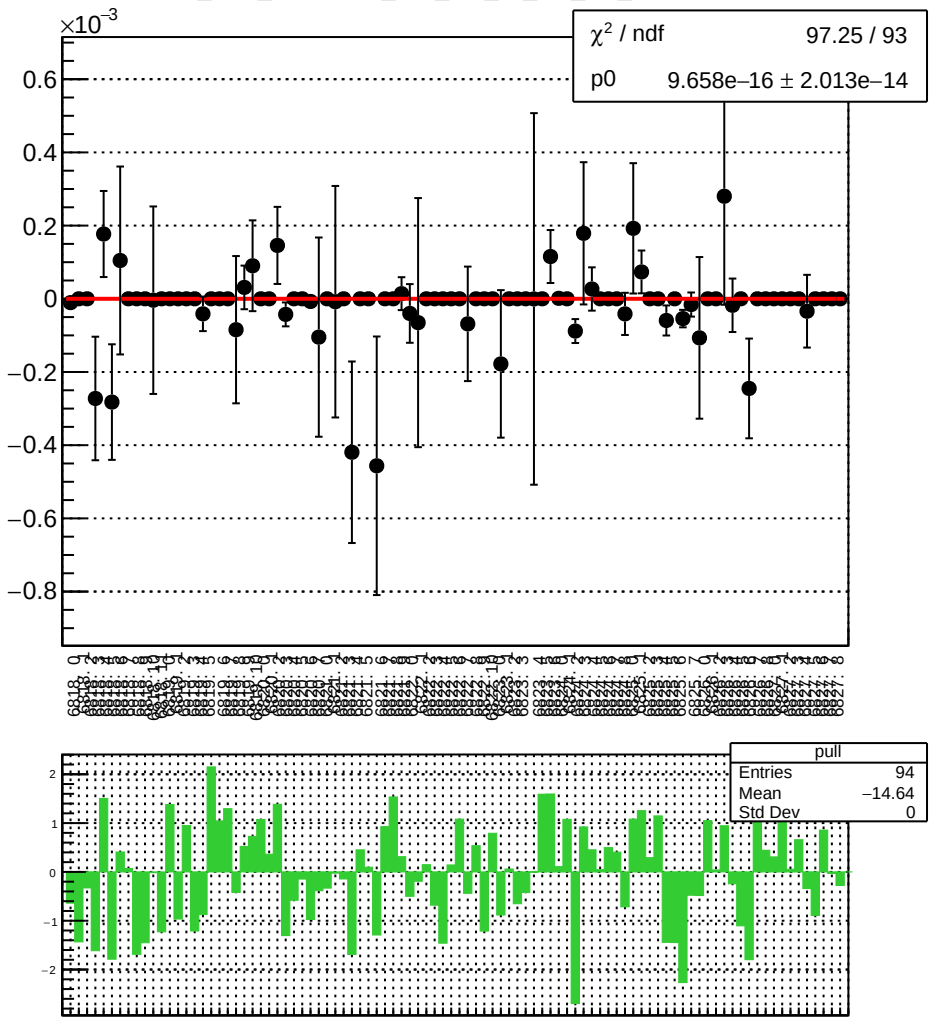

pull1D
Entries 94
Mean −0.007266
Std Dev 0.8904
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

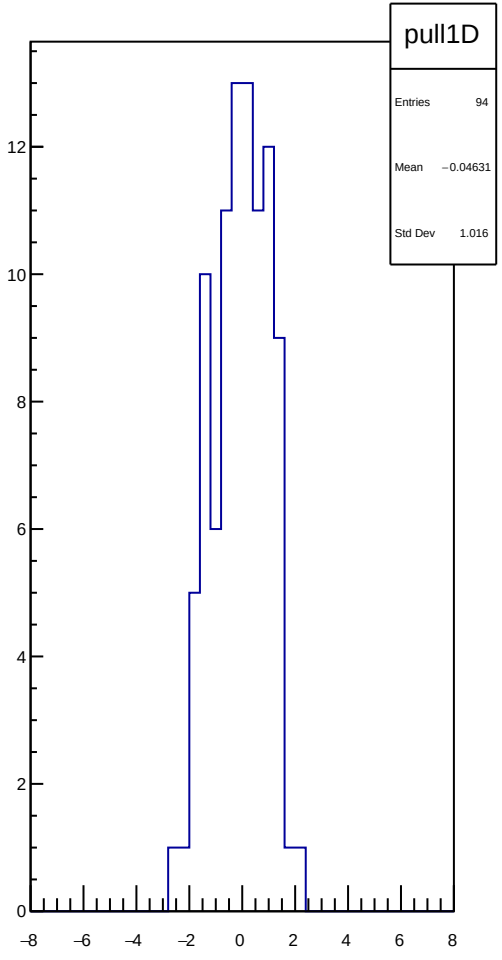

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 2373 / 93
p0 565.6 ± 0.4225
620
600
580
560
540
520

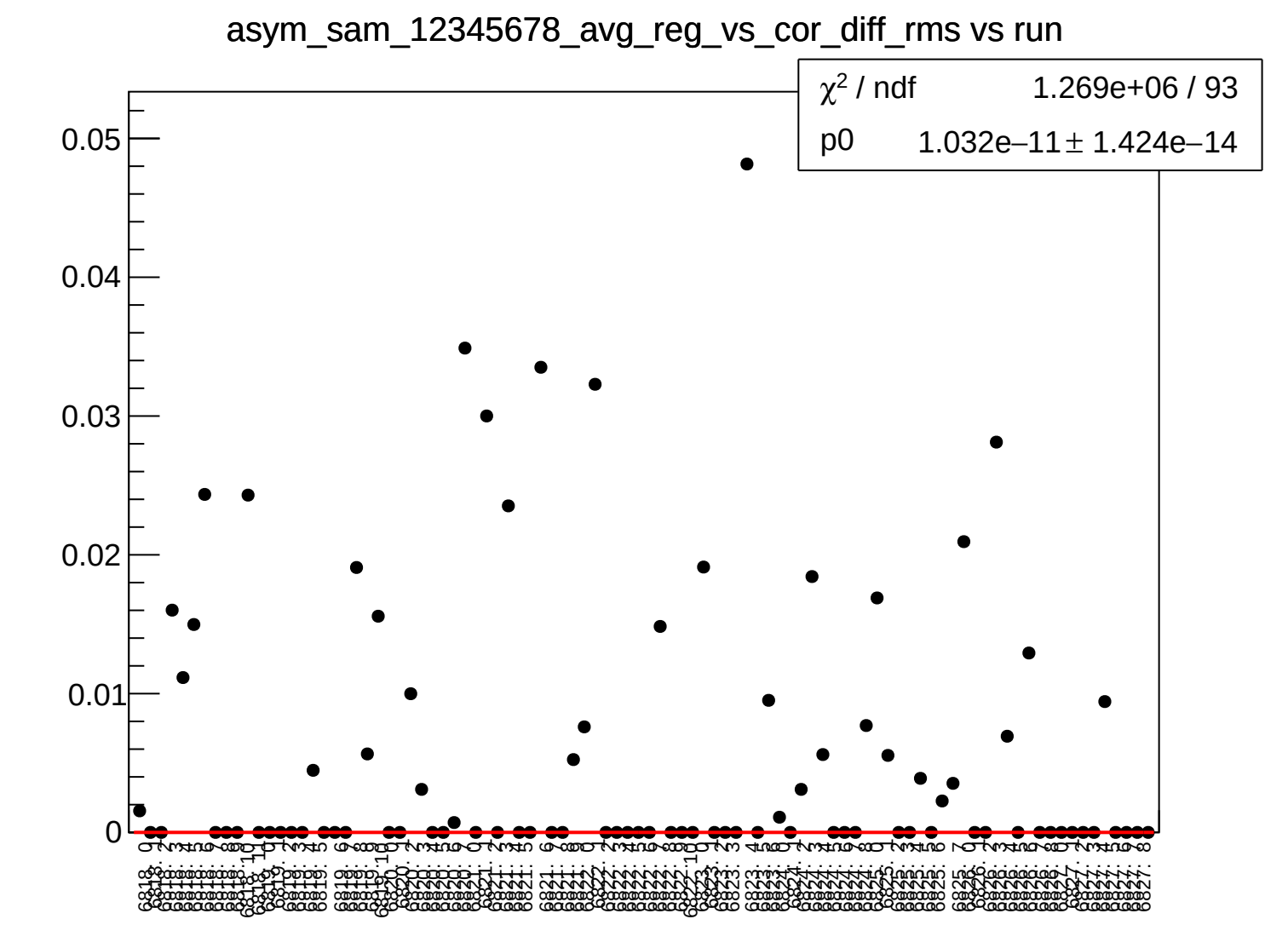

asym_sam_12345678_avg_mean vs run
χ² / ndf 72 / 93
p0 362.2 ± 622.9
pull
Entries 94
Mean −166.8
Std Dev 0

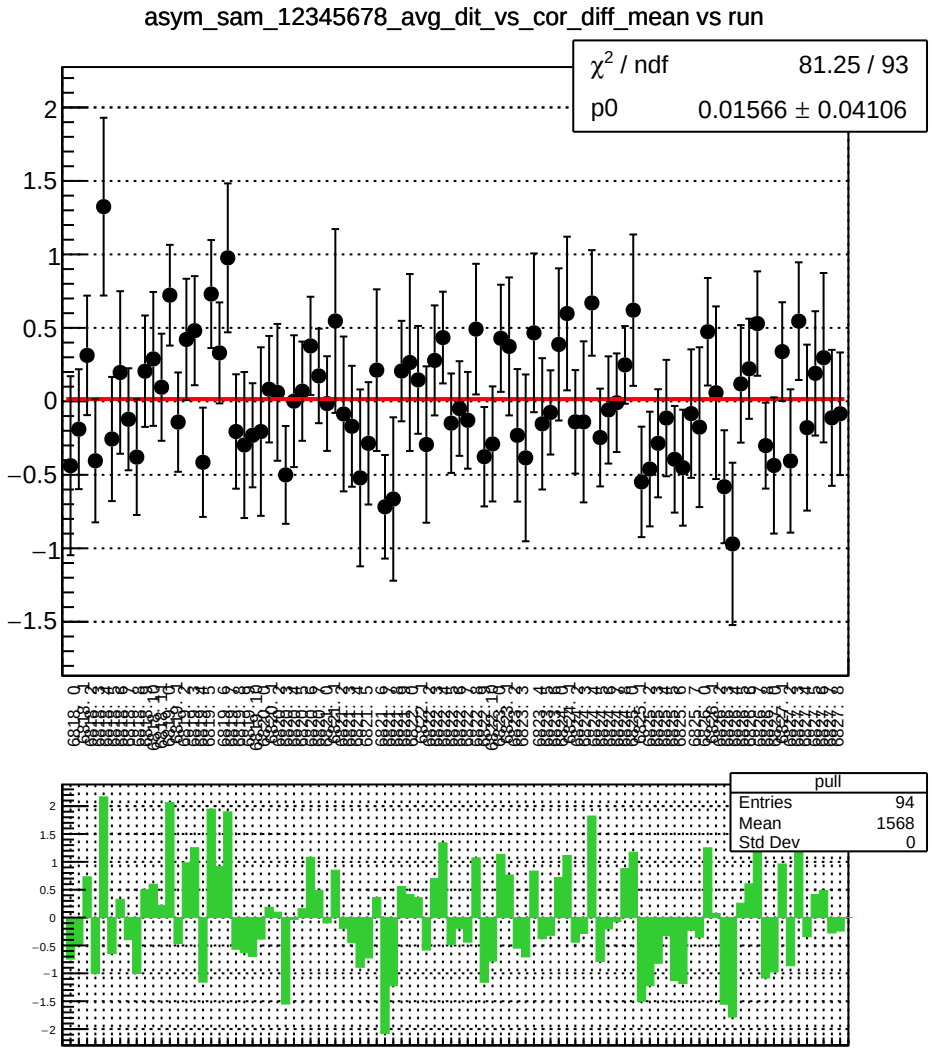

pull1D
Entries 94
Mean 0.008679
Std Dev 0.8752

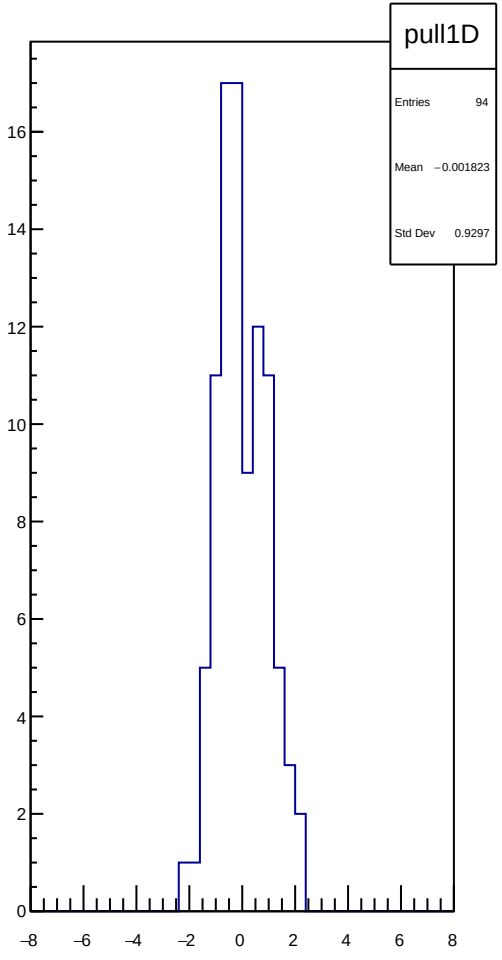

asym_sam_12345678_avg_rms vs run
χ² / ndf 4371 / 93
p0 589.4 ± 0.4405
660
640
620
600
580
560
540

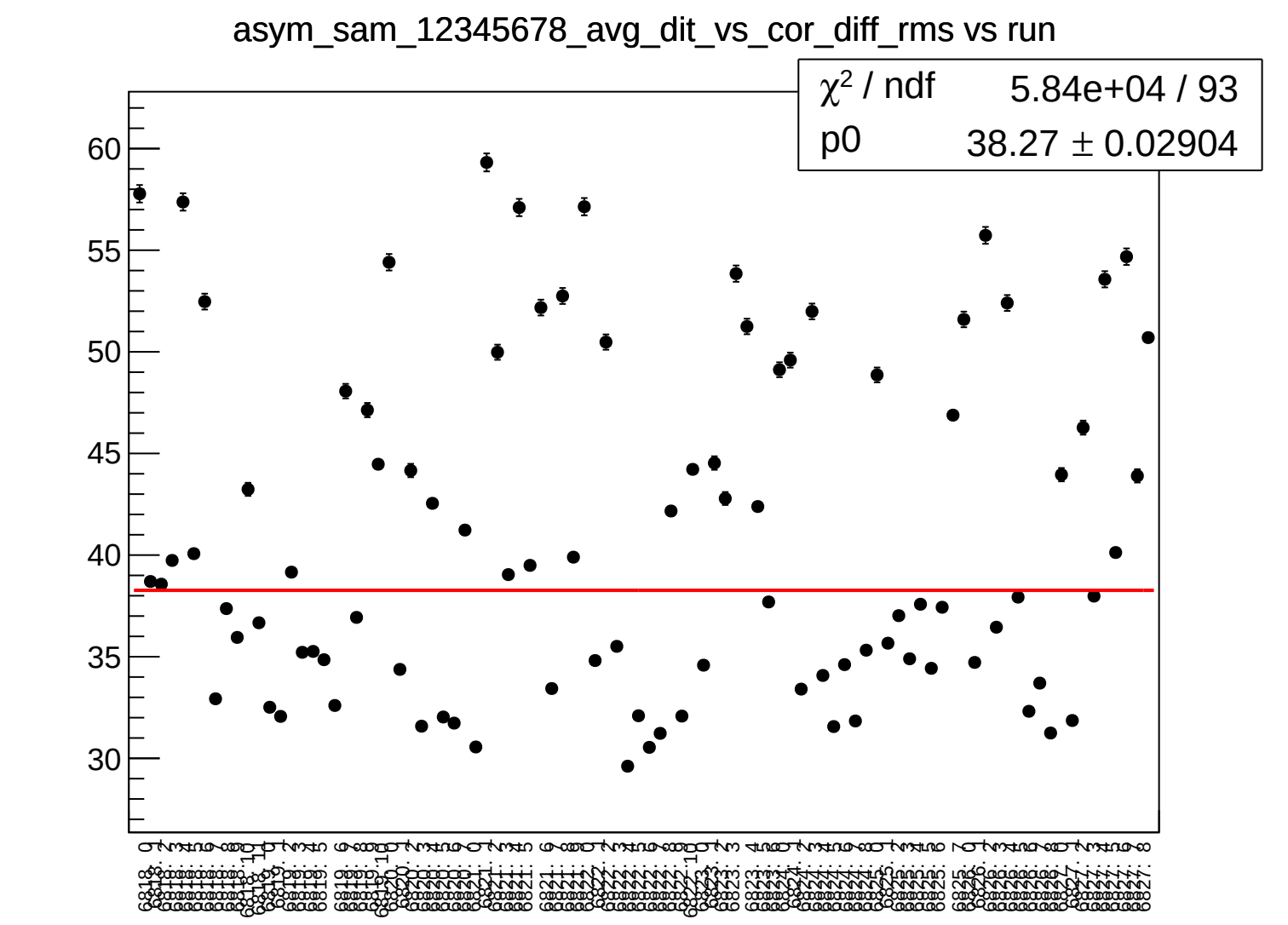

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 97.25 / 93
p0 9.658e−16 ± 2.013e−14
pull
Entries 94
Mean −14.64
Std Dev 0

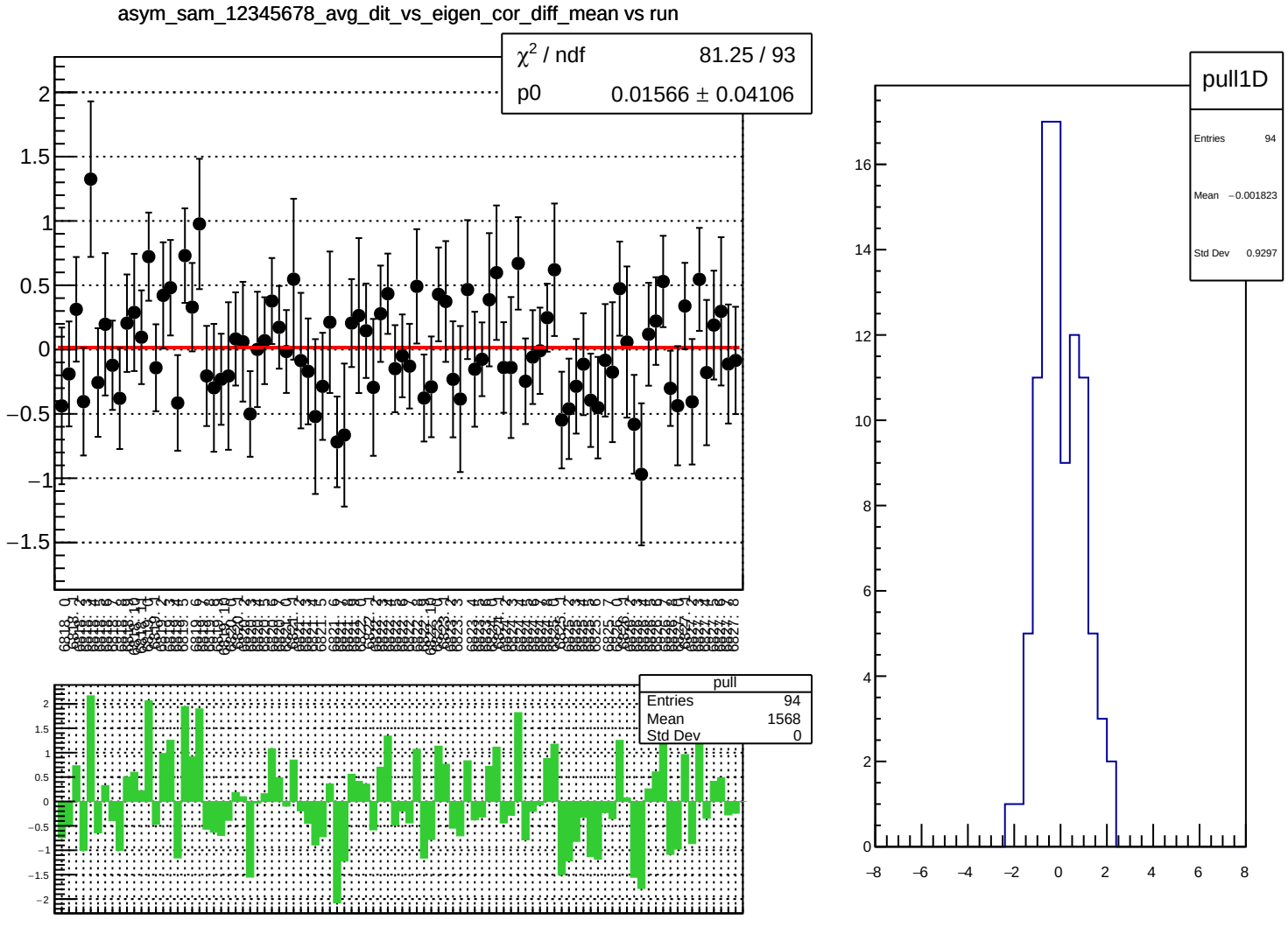

pull1D
Entries 94
Mean −0.04631
Std Dev 1.016

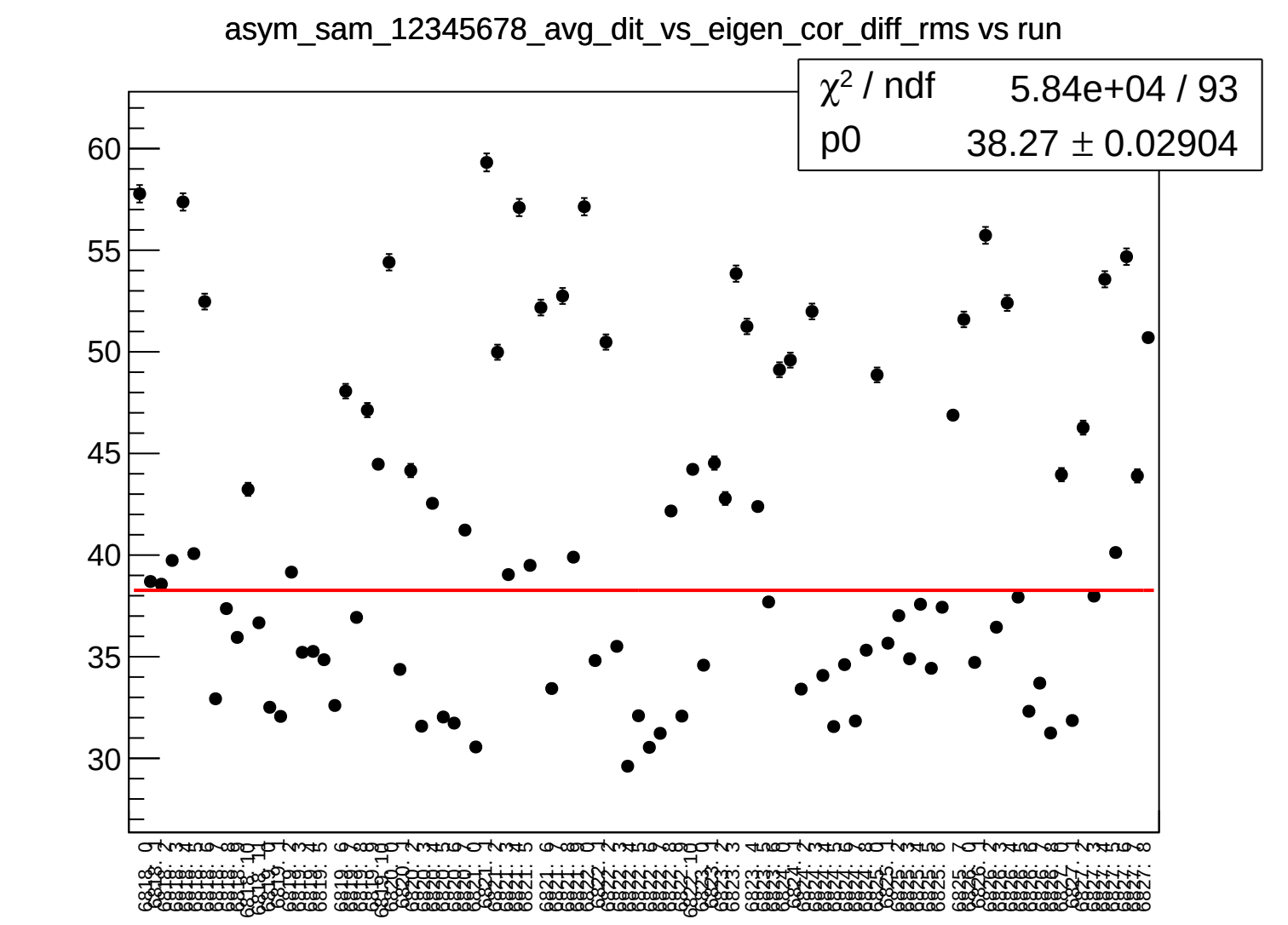

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.269e+06 / 93
p0 1.032e−11 ± 1.424e−14
0.05
0.04
0.03
0.02
0.01
0

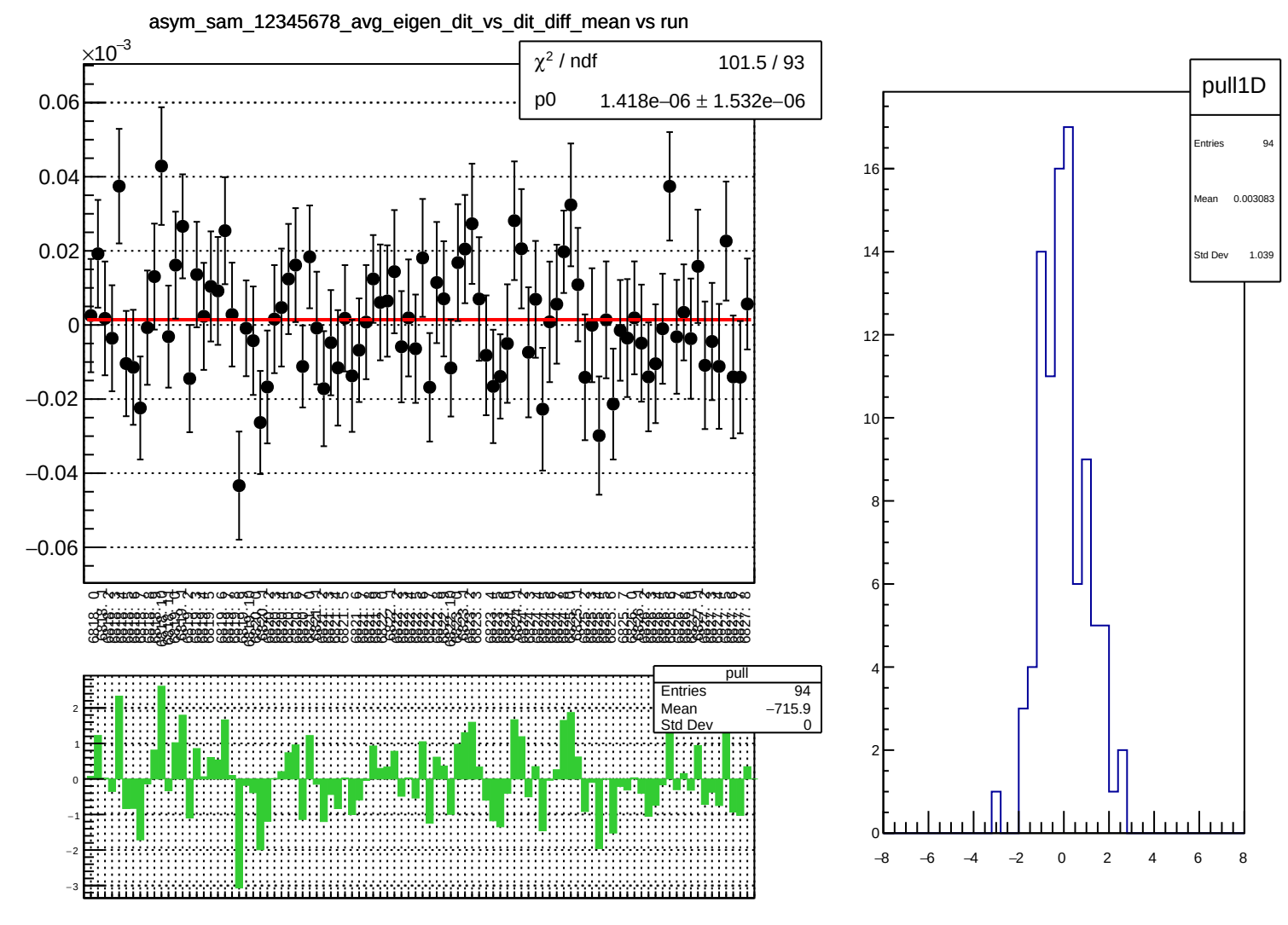

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 93
p0 0.01566 ± 0.04106
pull
Entries 94
Mean 1568
Std Dev 0

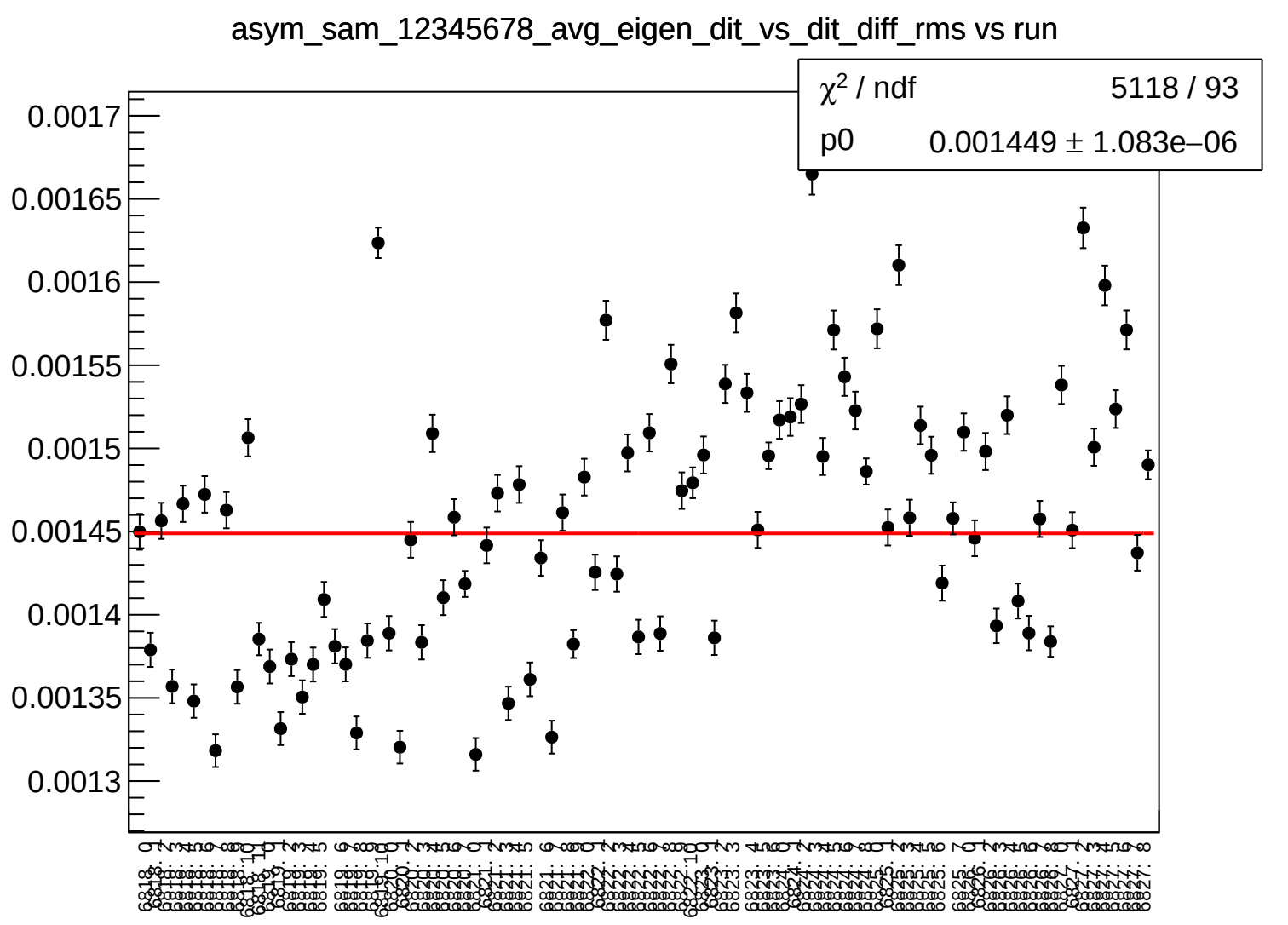

pull1D
Entries 94
Mean −0.001823
Std Dev 0.9297

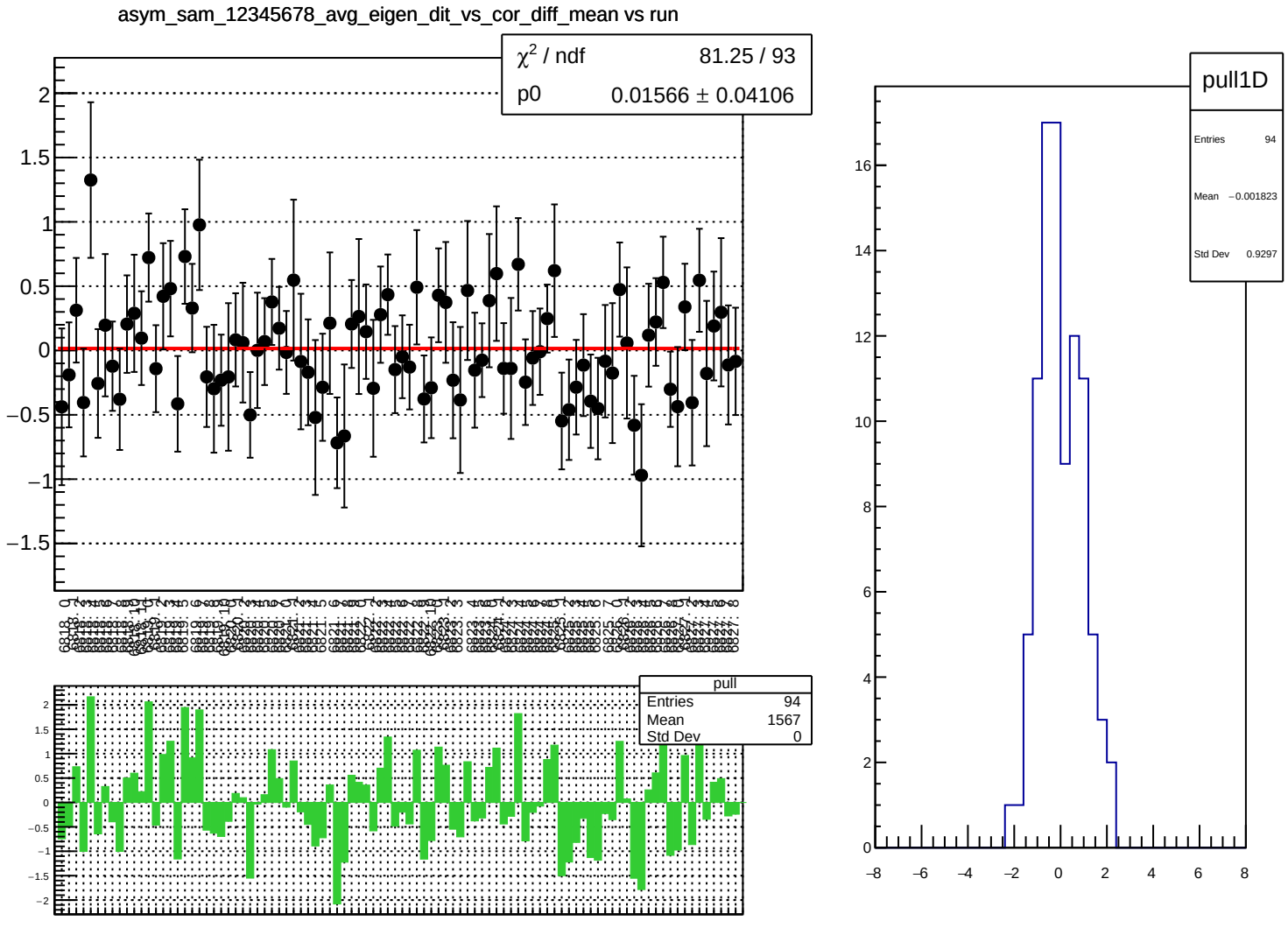

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.84e+04 / 93
p0 38.27 ± 0.02904
60
55
50
45
40
35
30

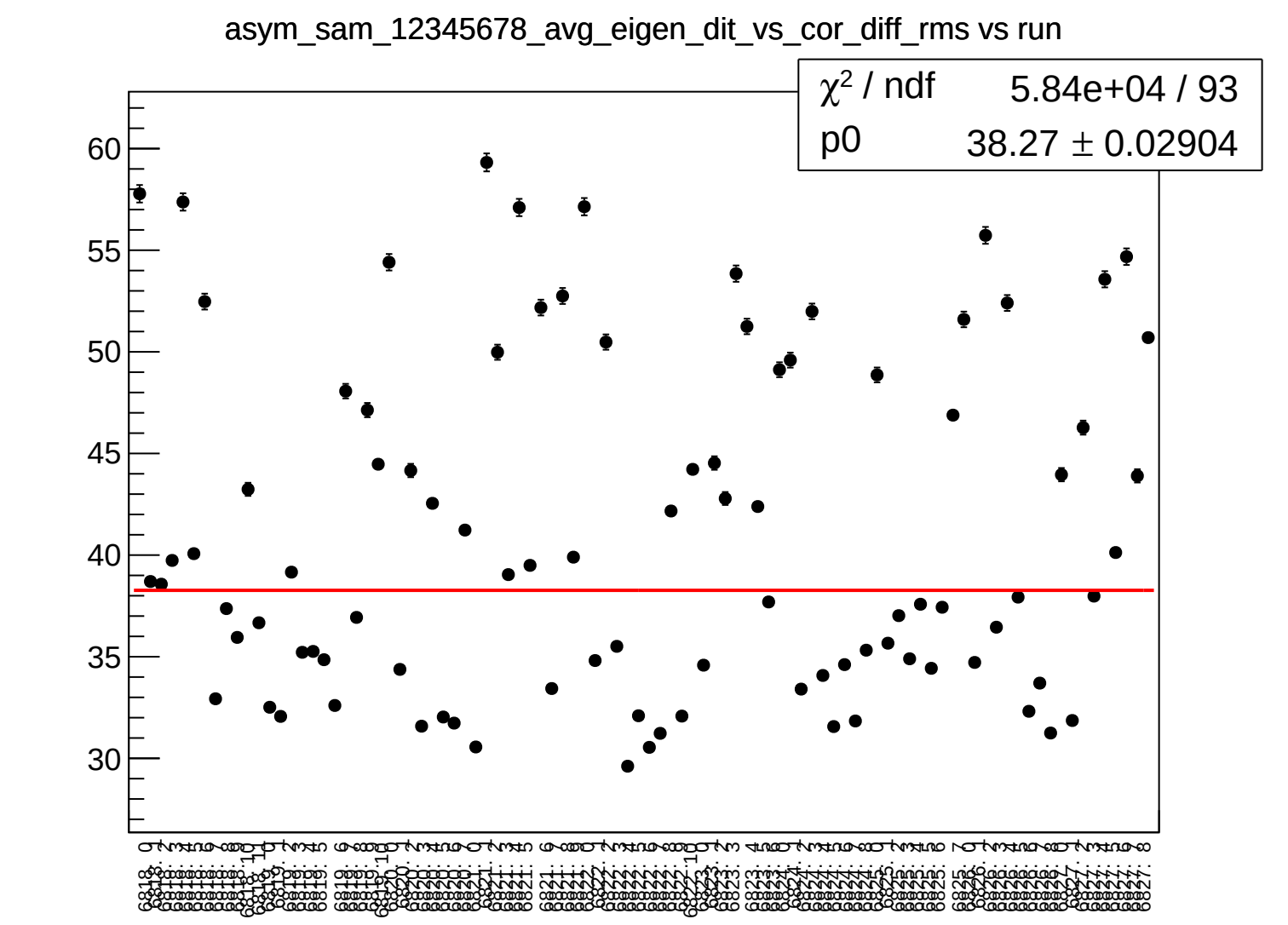

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 93
p0 0.01566 ± 0.04106
pull
Entries 94
Mean 1568
Std Dev 0
pull1D
Entries 94
Mean −0.001823
Std Dev 0.9297

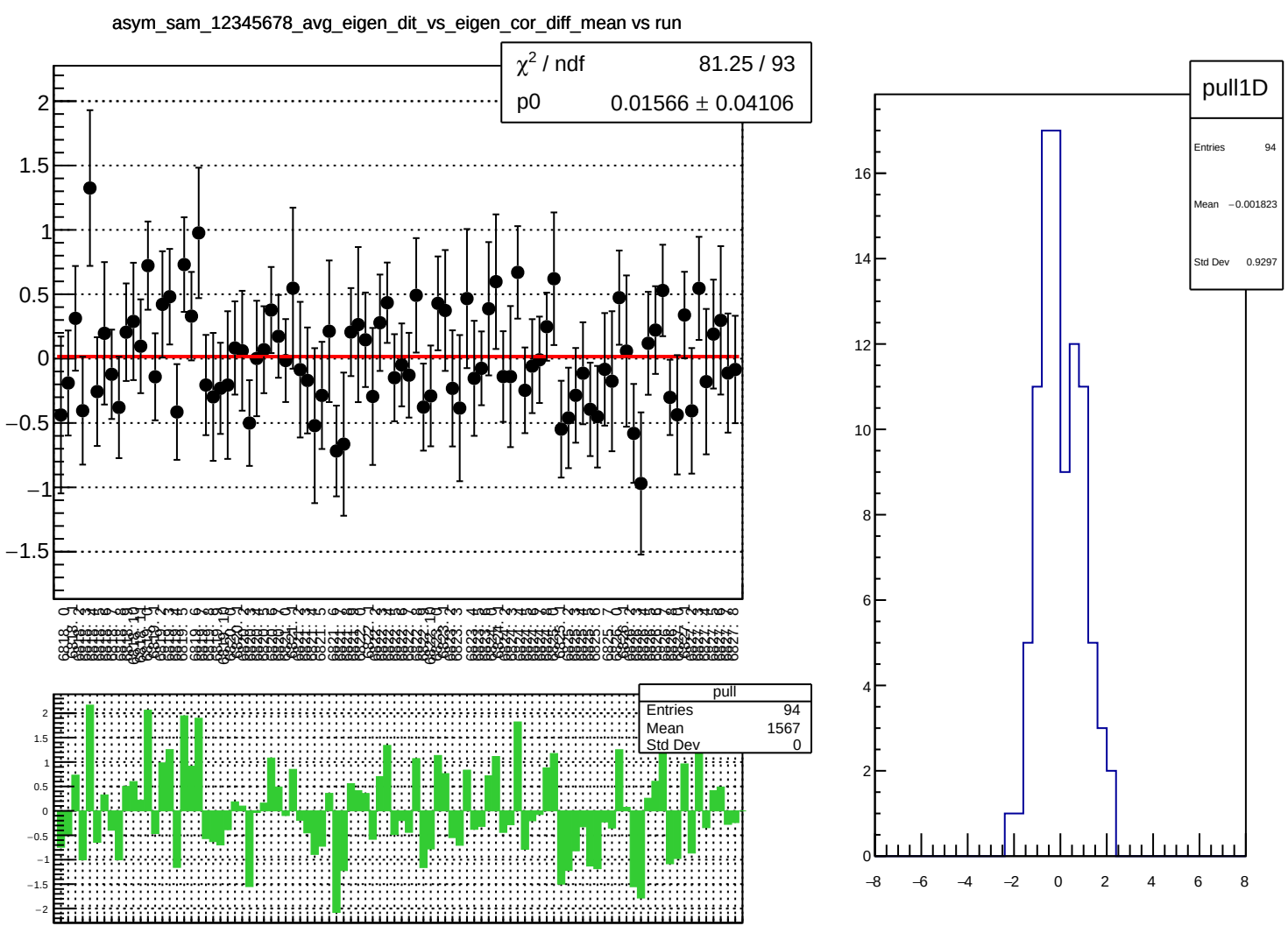

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.84e+04 / 93
p0 38.27 ± 0.02904
60
55
50
45
40
35
30

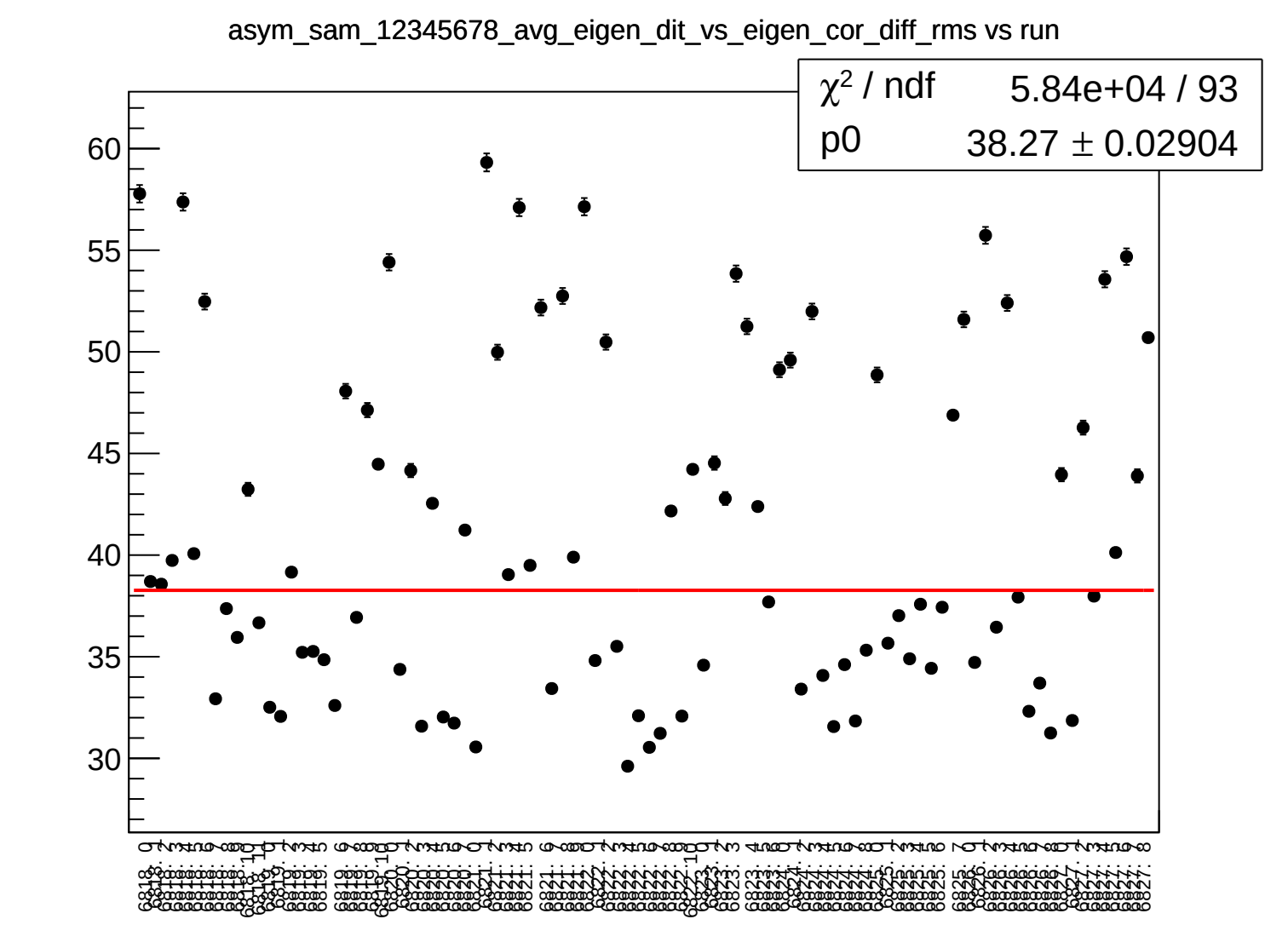

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.5 / 93
p0 1.418e−06 ± 1.532e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 94
Mean −715.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.003083
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

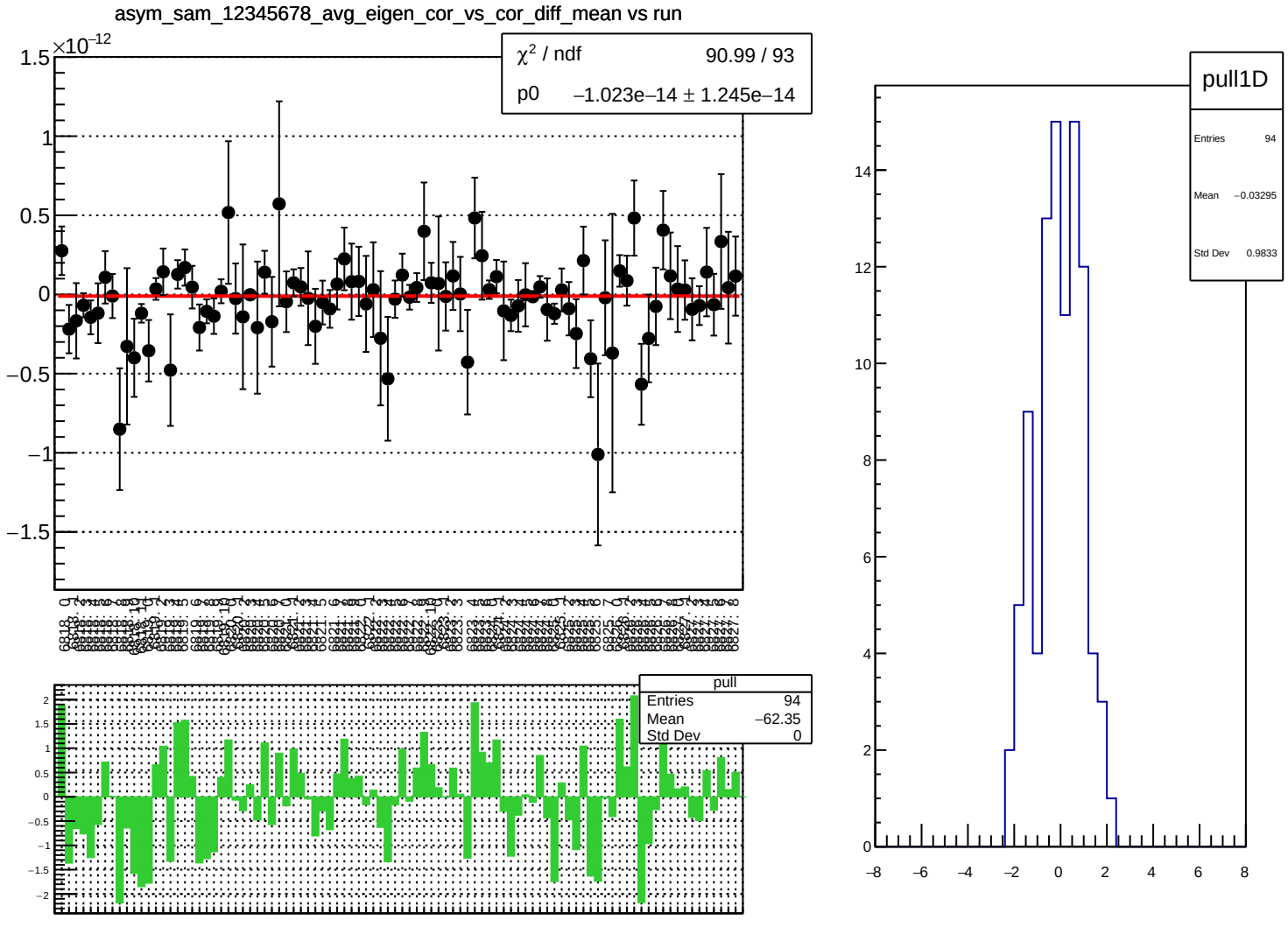

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5118 / 93
p0 0.001449 ± 1.083e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013

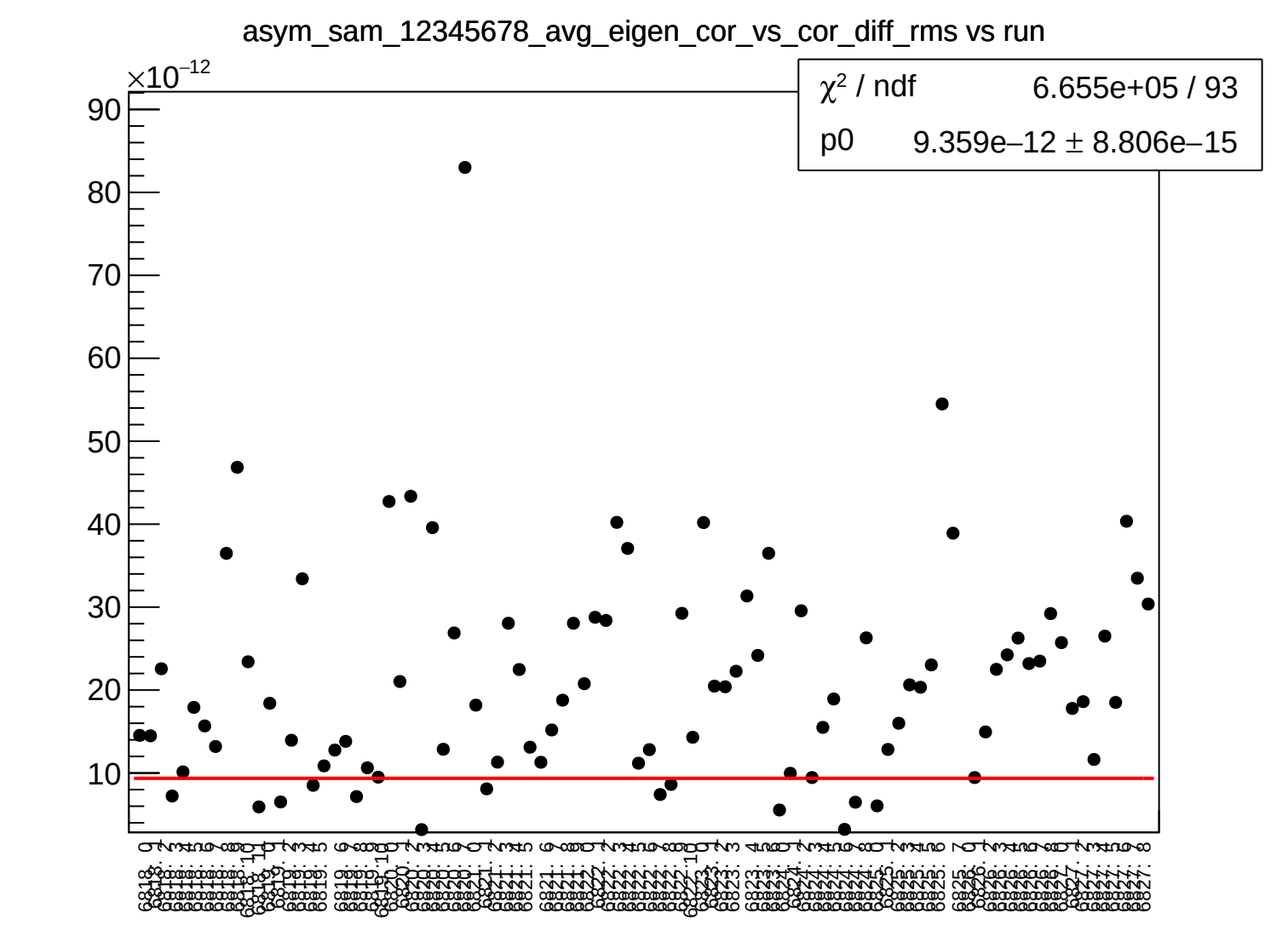

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 93
p0 0.01566 ± 0.04106
pull
Entries 94
Mean 1567
Std Dev 0
pull1D
Entries 94
Mean −0.001823
Std Dev 0.9297

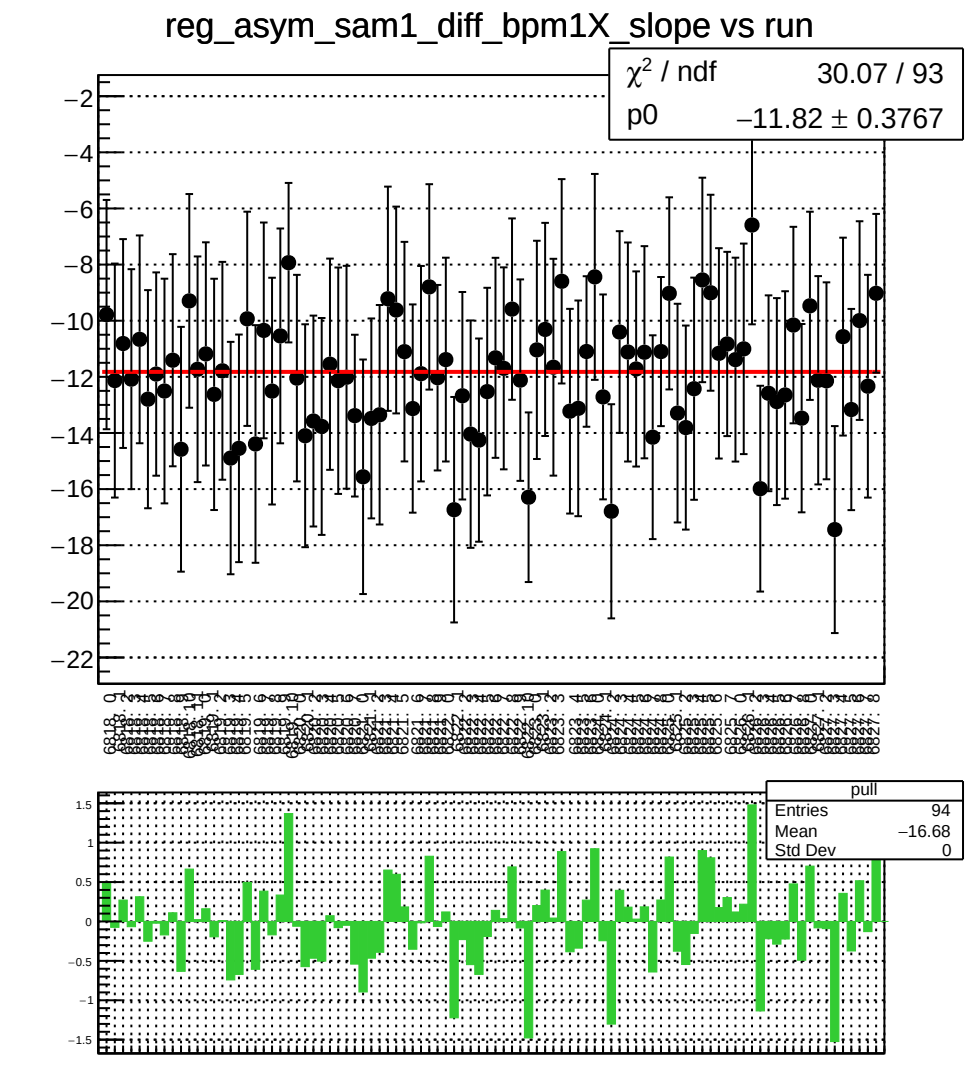

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.84e+04 / 93
p0 38.27 ± 0.02904
60
55
50
45
40
35
30

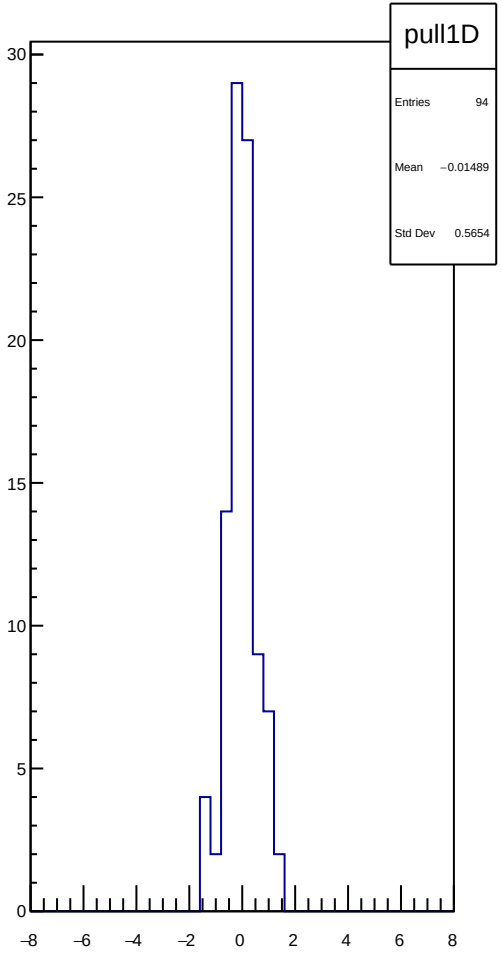

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 93
p0 0.01566 ± 0.04106
pull
Entries 94
Mean 1567
Std Dev 0
pull1D
Entries 94
Mean −0.001823
Std Dev 0.9297

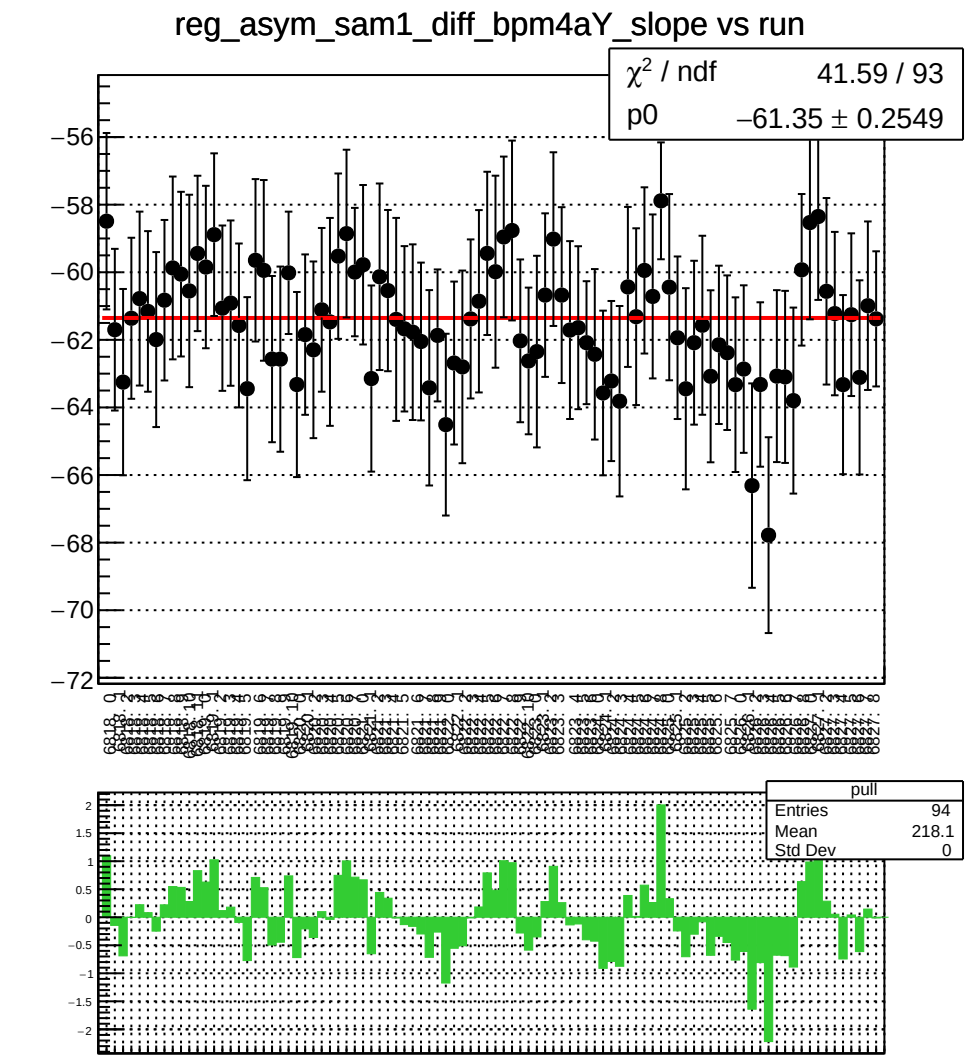

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.84e+04 / 93
p0 38.27 ± 0.02904
60
55
50
45
40
35
30

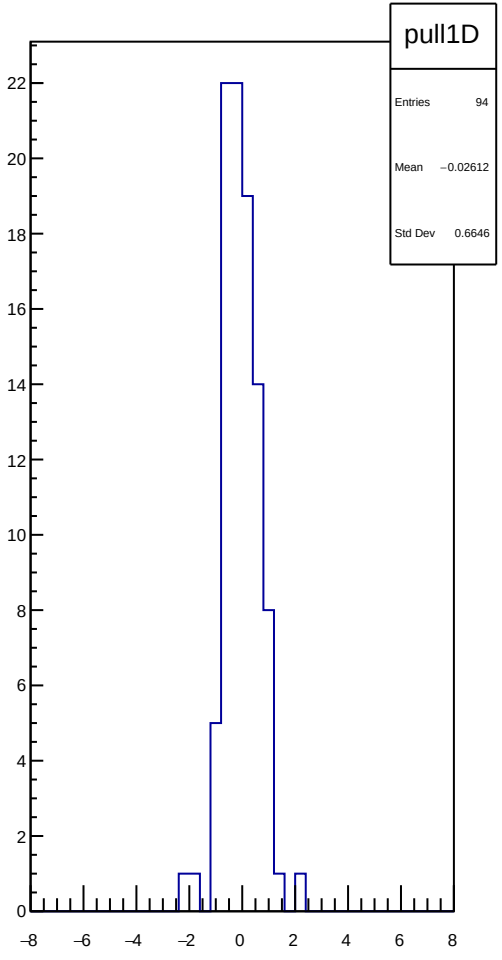

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 90.99 / 93
p0 −1.023e−14 ± 1.245e−14
pull
Entries 94
Mean −62.35
Std Dev 0
pull1D
Entries 94
Mean −0.03295
Std Dev 0.9833

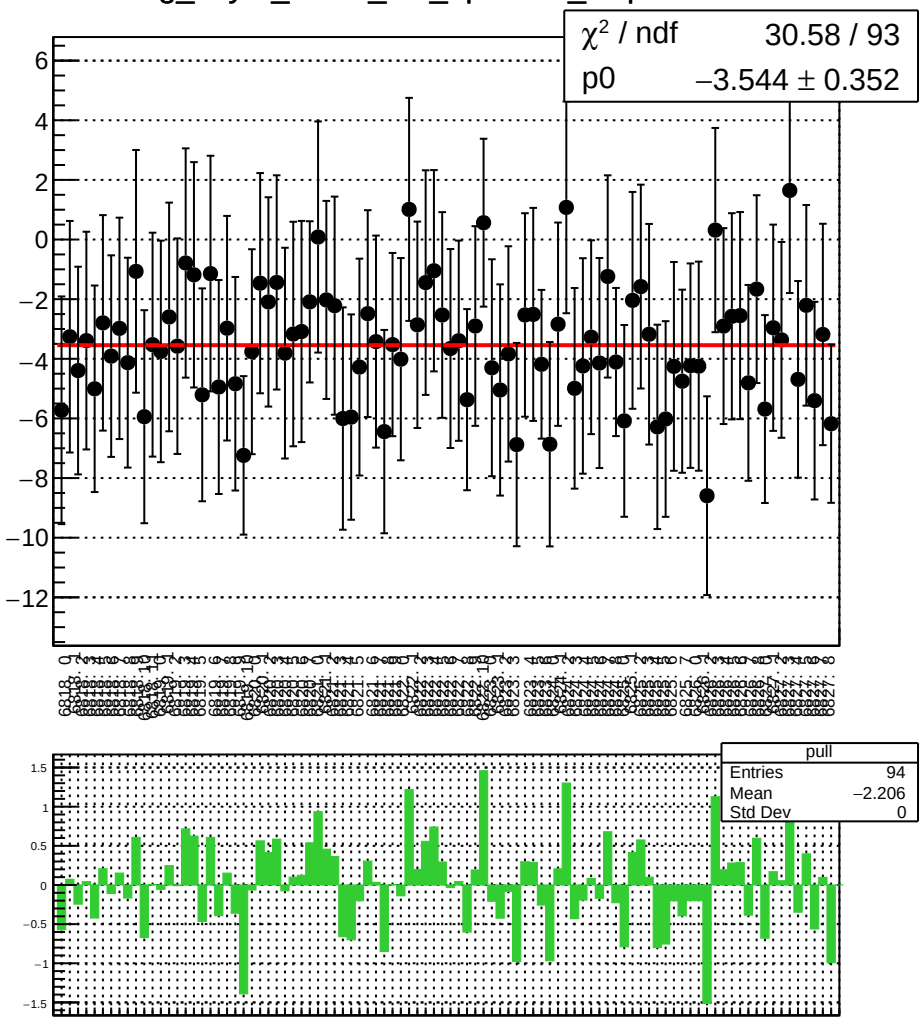

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.655e+05 / 93
p0 9.359e−12 ± 8.806e−15
90
80
70
60
50
40
30
20
10

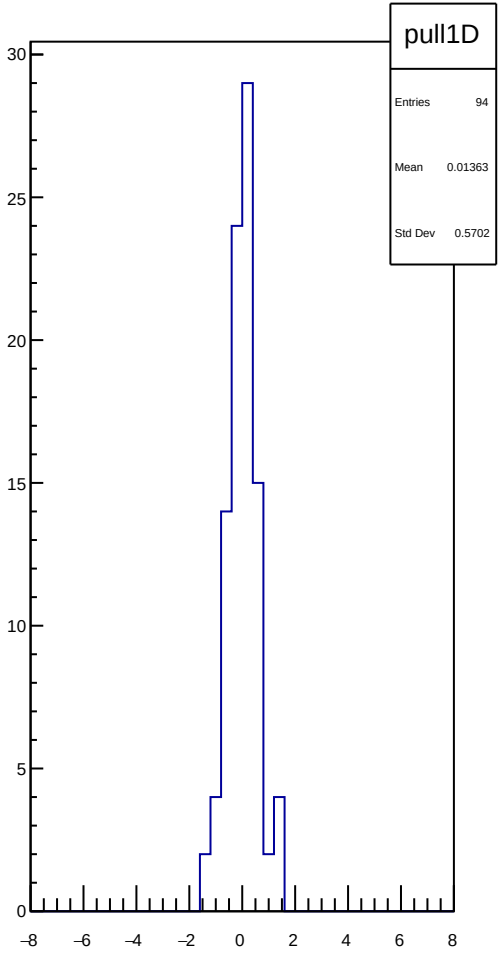

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 30.07 / 93
p0 −11.82 ± 0.3767
pull
Entries 94
Mean −16.68
Std Dev 0

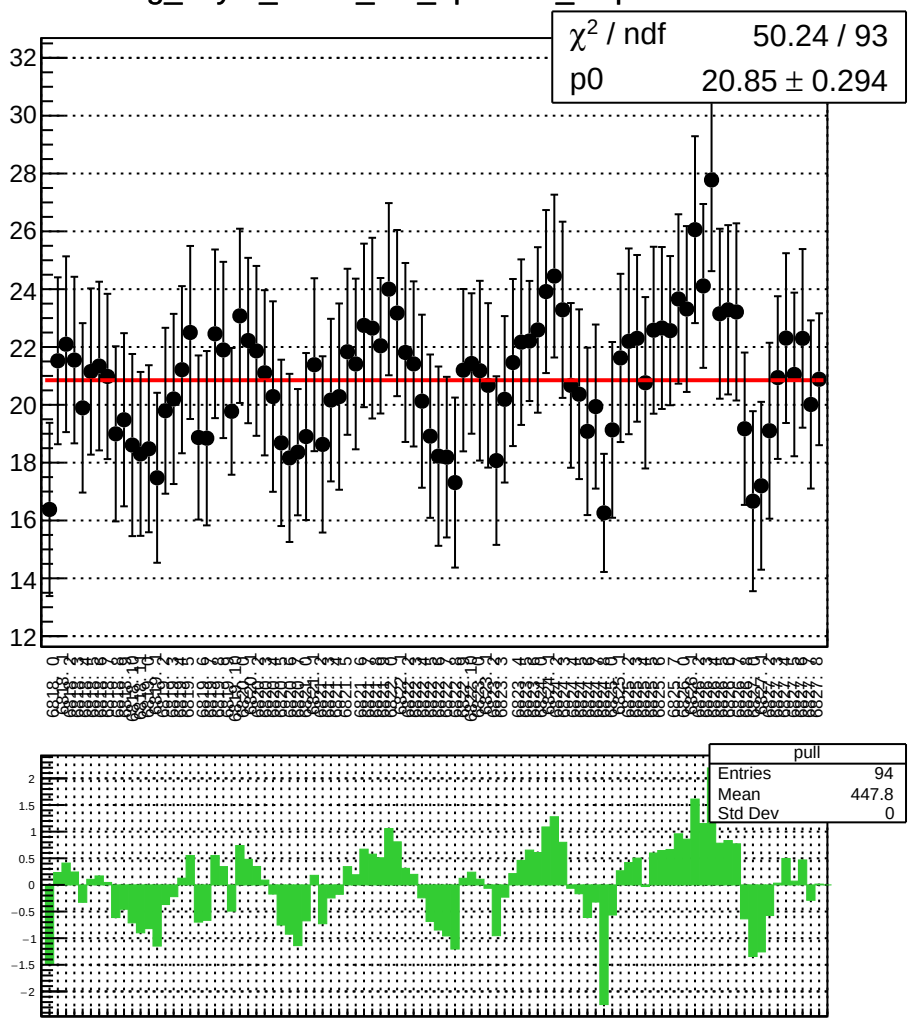

pull1D
Entries 94
Mean −0.01489
Std Dev 0.5654

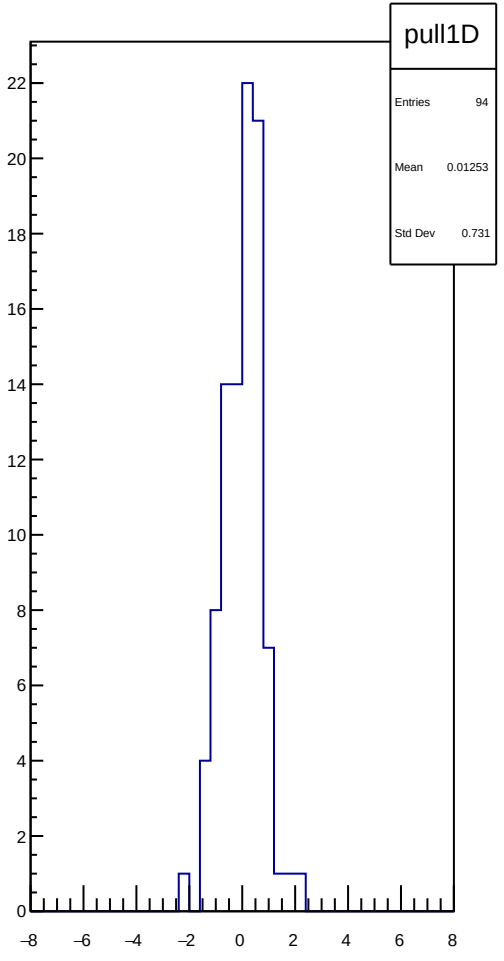

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 41.59 / 93
p0 −61.35 ± 0.2549
pull
Entries 94
Mean 218.1
Std Dev 0

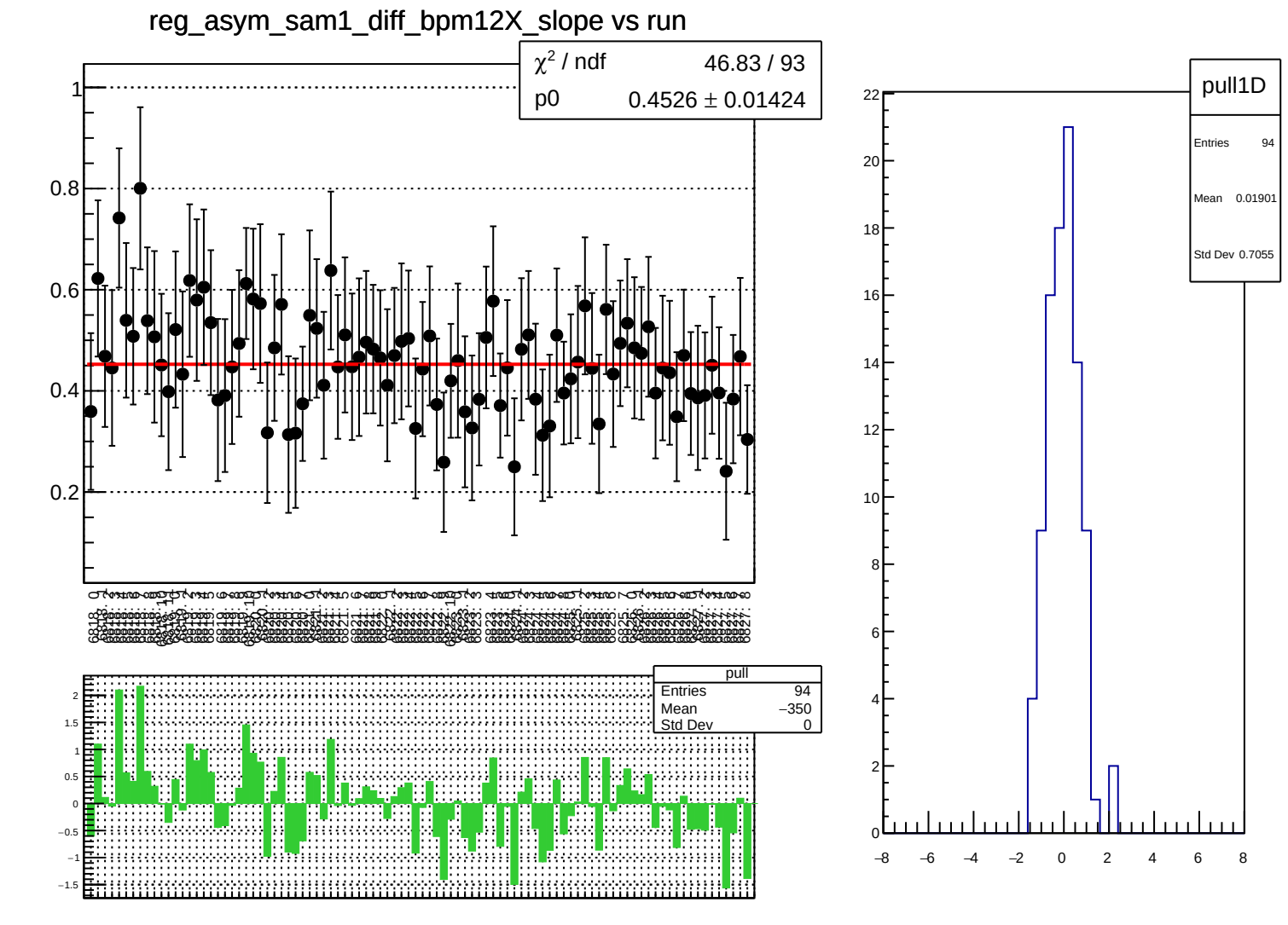

pull1D
Entries 94
Mean −0.02612
Std Dev 0.6646

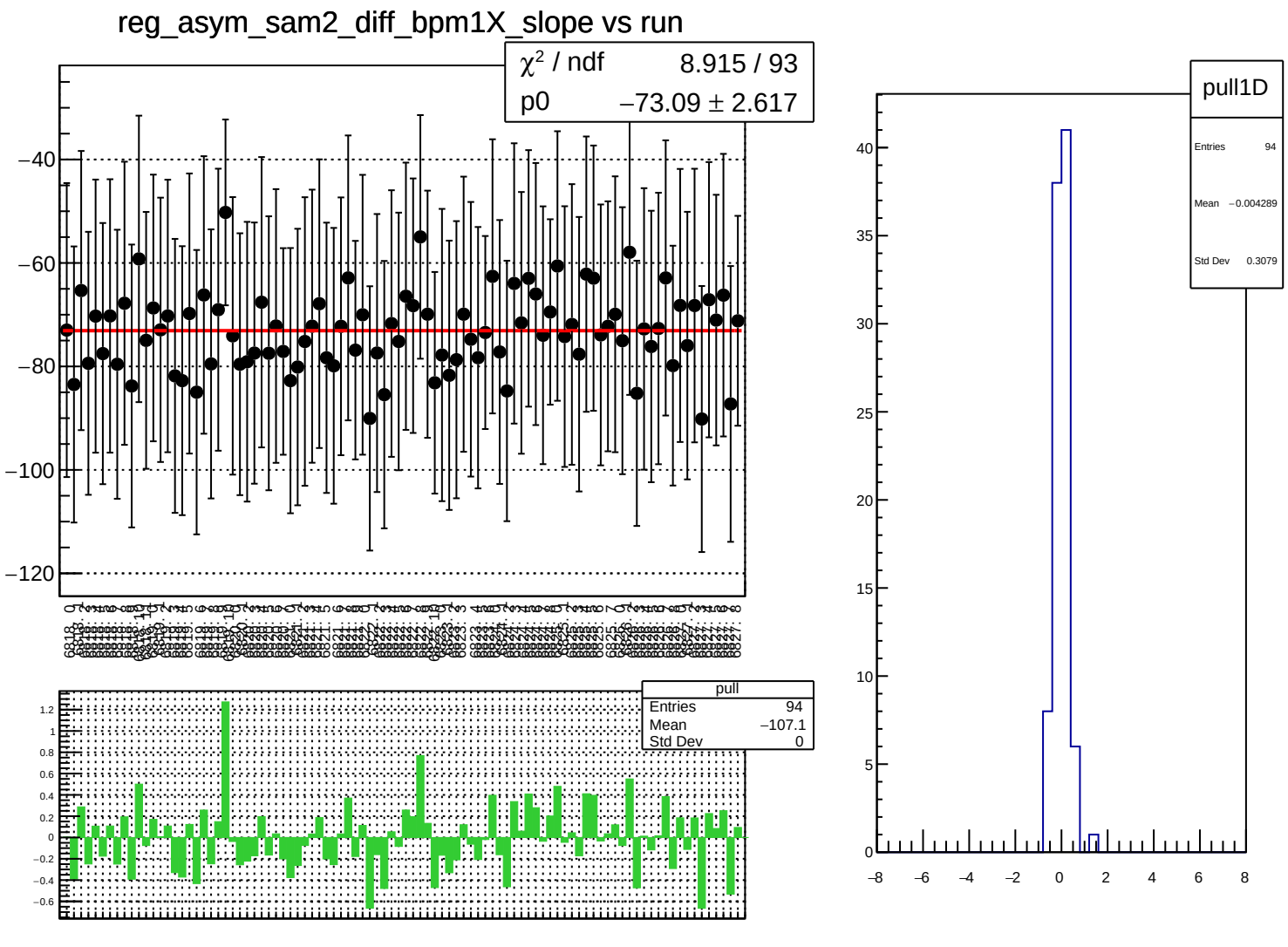

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 30.58 / 93
p0 −3.544 ± 0.352
pull
Entries 94
Mean −2.206
Std Dev 0

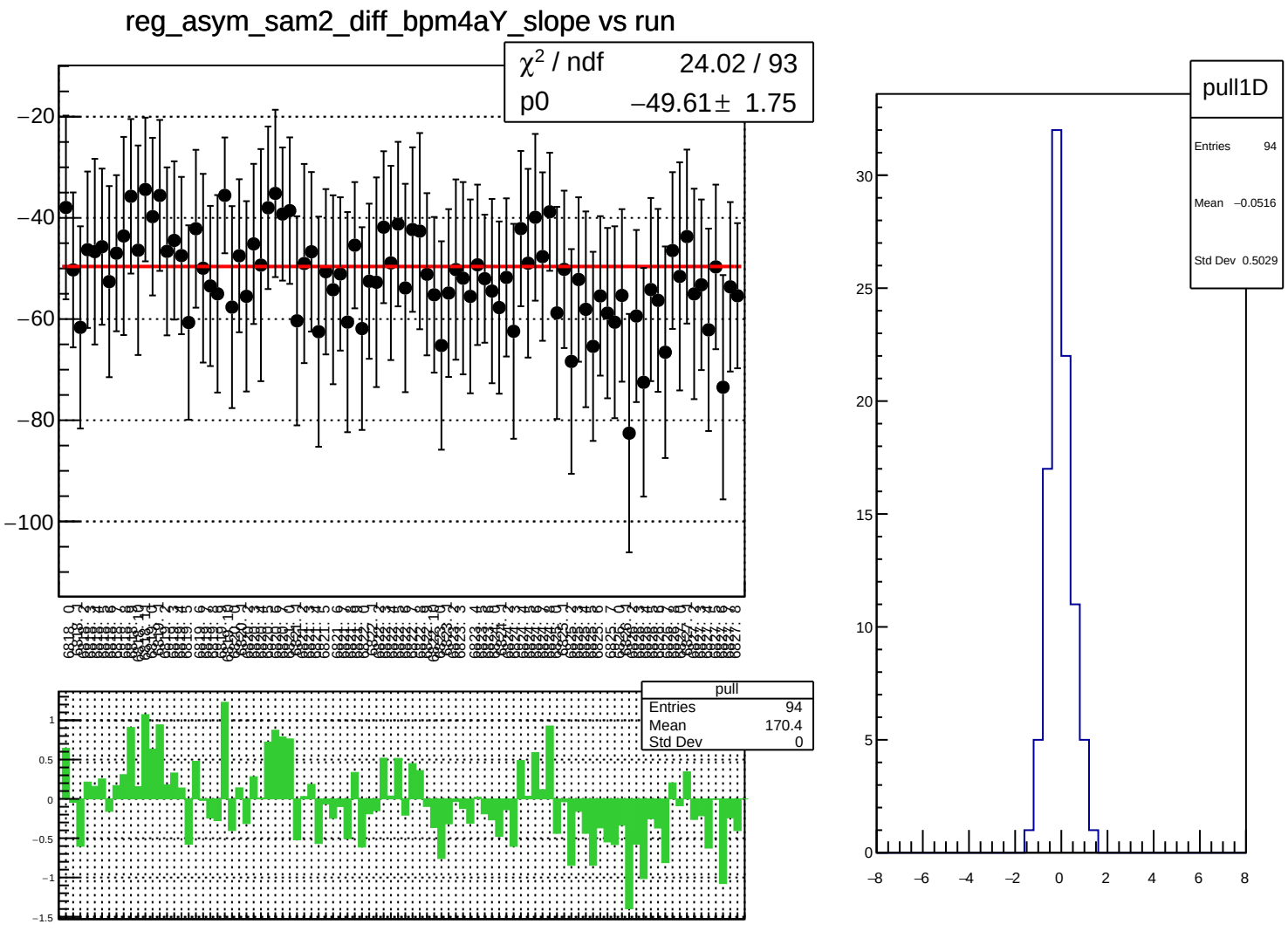

pull1D
Entries 94
Mean 0.01363
Std Dev 0.5702

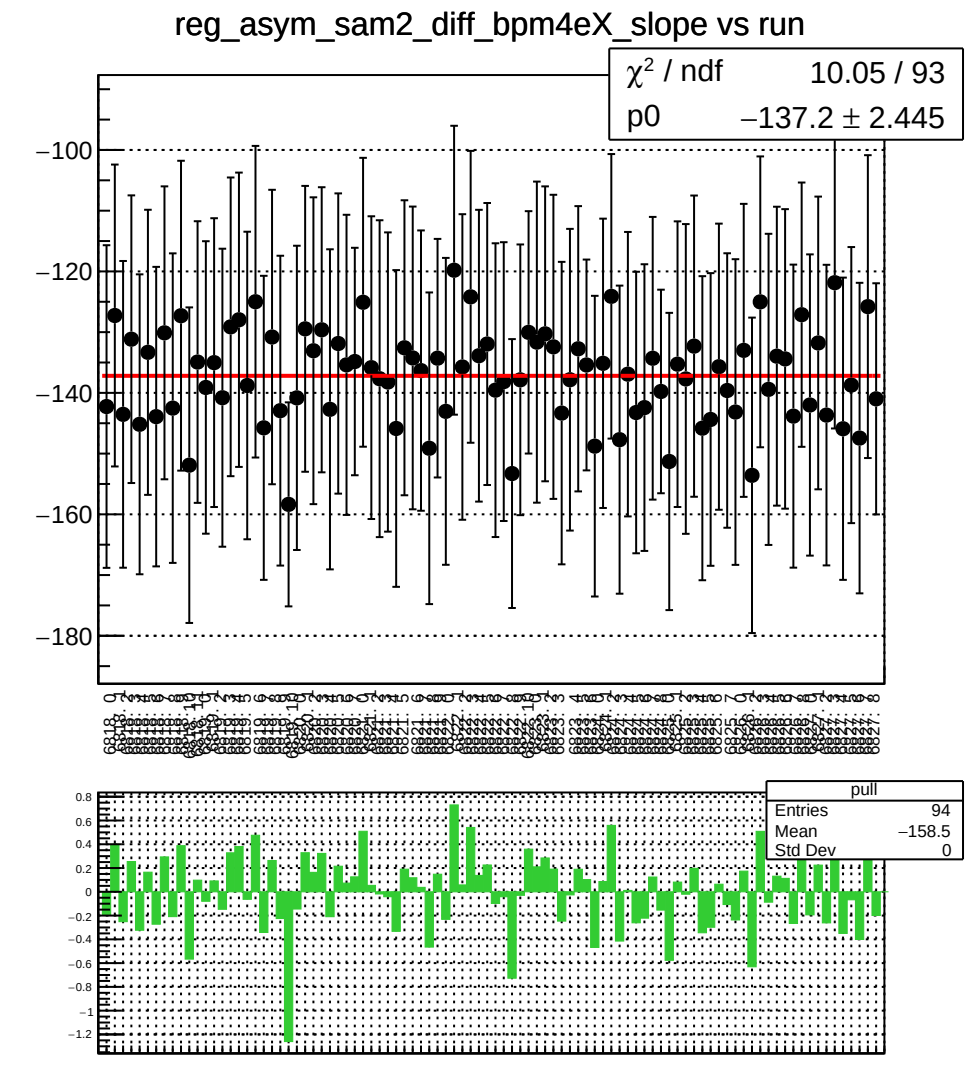

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 50.24 / 93
p0 20.85 ± 0.294
pull
Entries 94
Mean 447.8
Std Dev 0

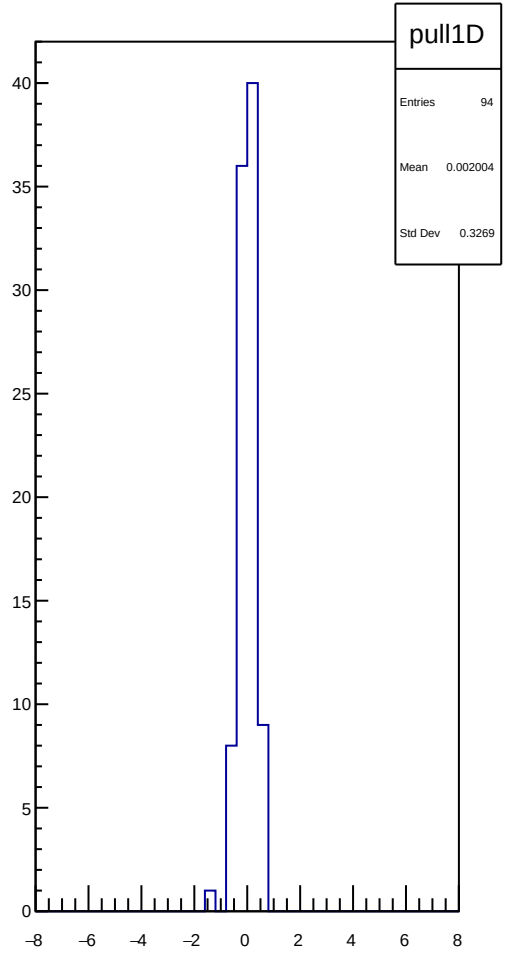

pull1D
Entries 94
Mean 0.01253
Std Dev 0.731

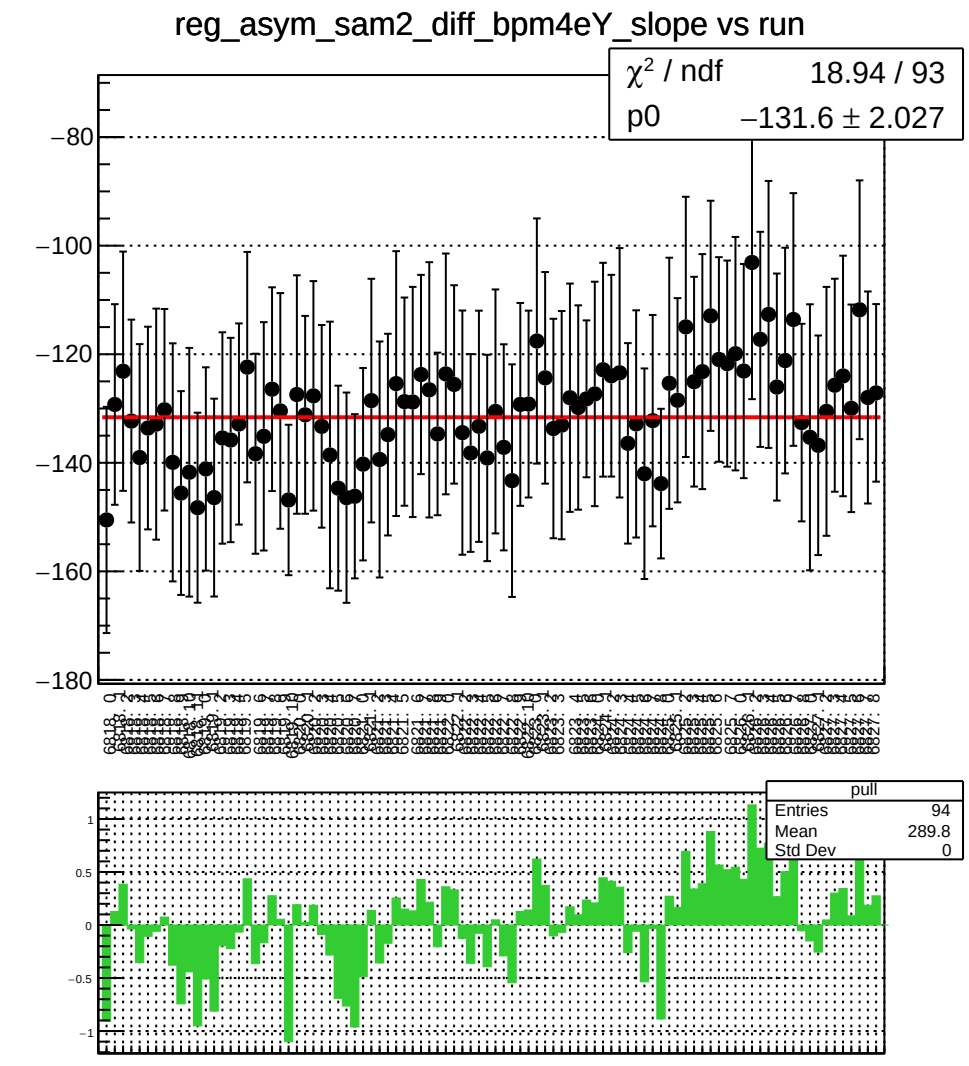

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 46.83 / 93
p0 0.4526 ± 0.01424
pull
Entries 94
Mean −350
Std Dev 0
pull1D
Entries 94
Mean 0.01901
Std Dev 0.7055

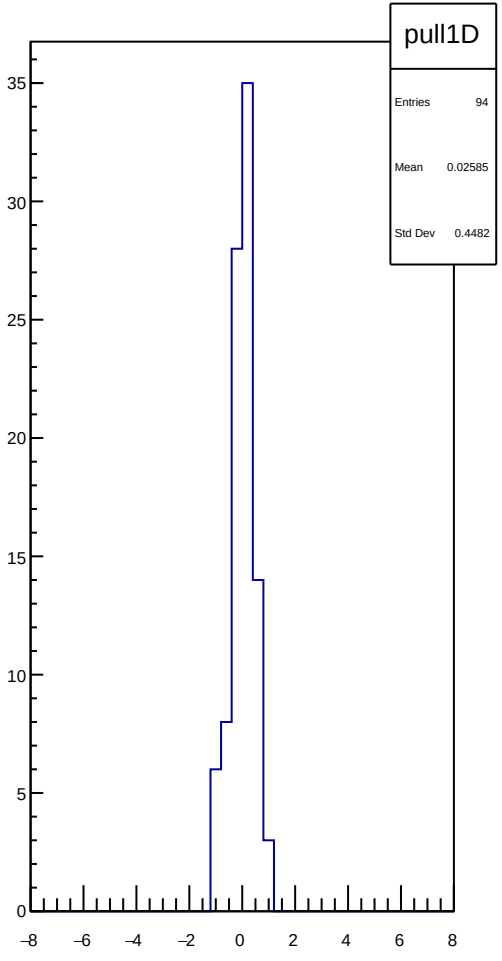

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 8.915 / 93
p0 −73.09 ± 2.617
−40
−60
−80
−100
−120
pull
Entries 94
Mean −107.1
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.004289
Std Dev 0.3079
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

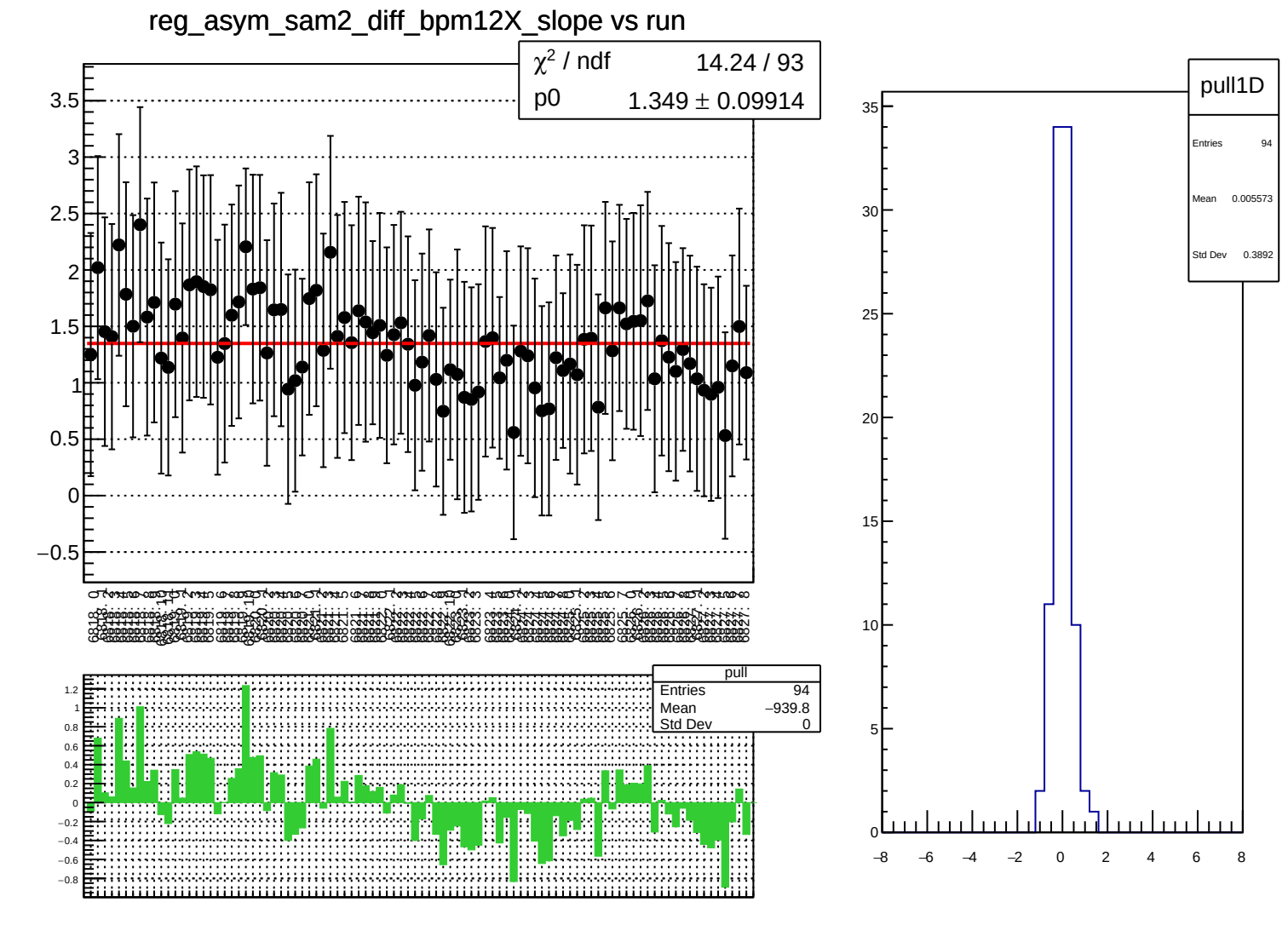

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 24.02 / 93
p0 −49.61 ± 1.75
−20
−40
−60
−80
−100
pull
Entries 94
Mean 170.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.0516
Std Dev 0.5029
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

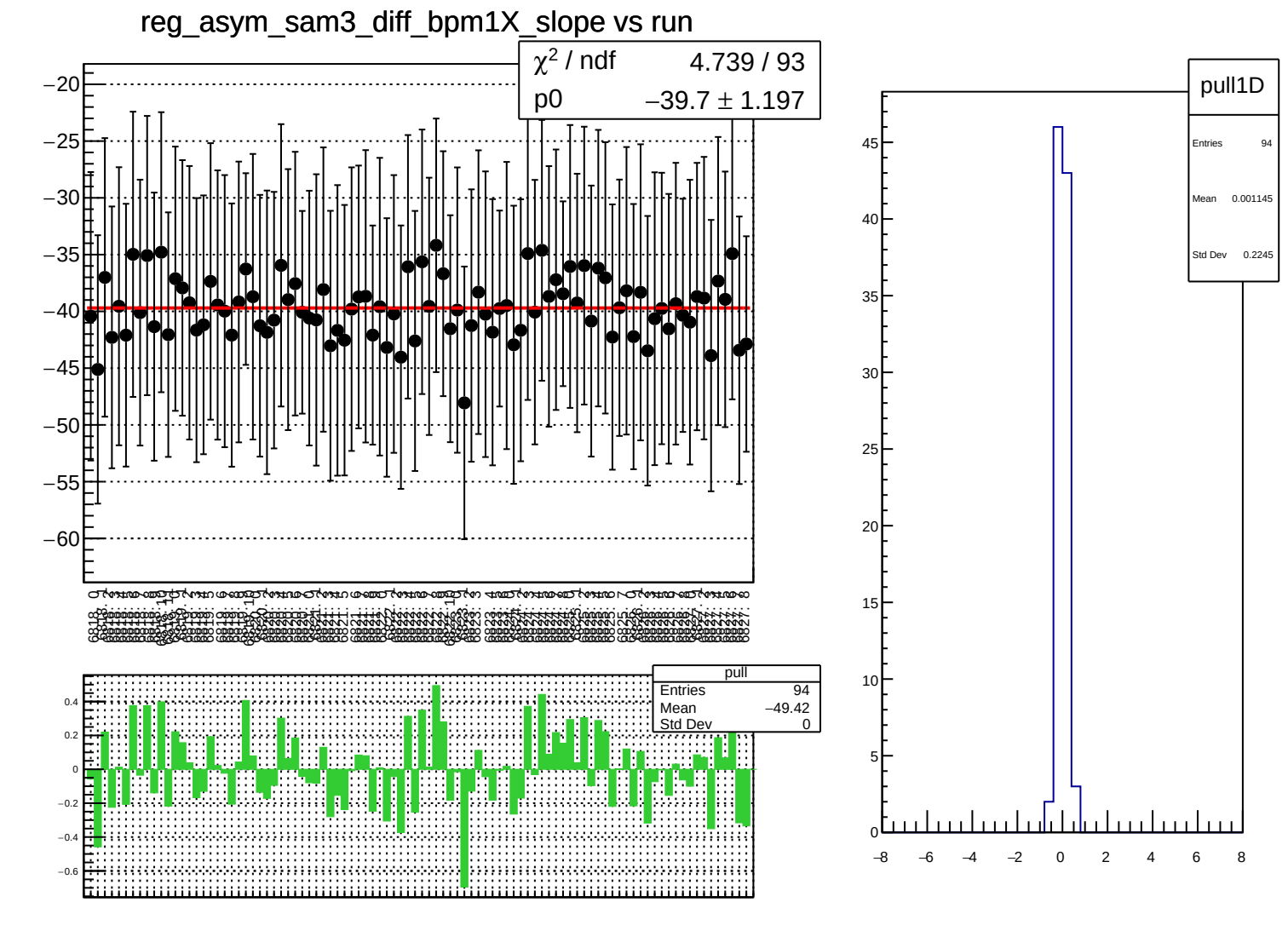

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 10.05 / 93
p0 −137.2 ± 2.445
−100
−120
−140
−160
−180
pull
Entries 94
Mean −158.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

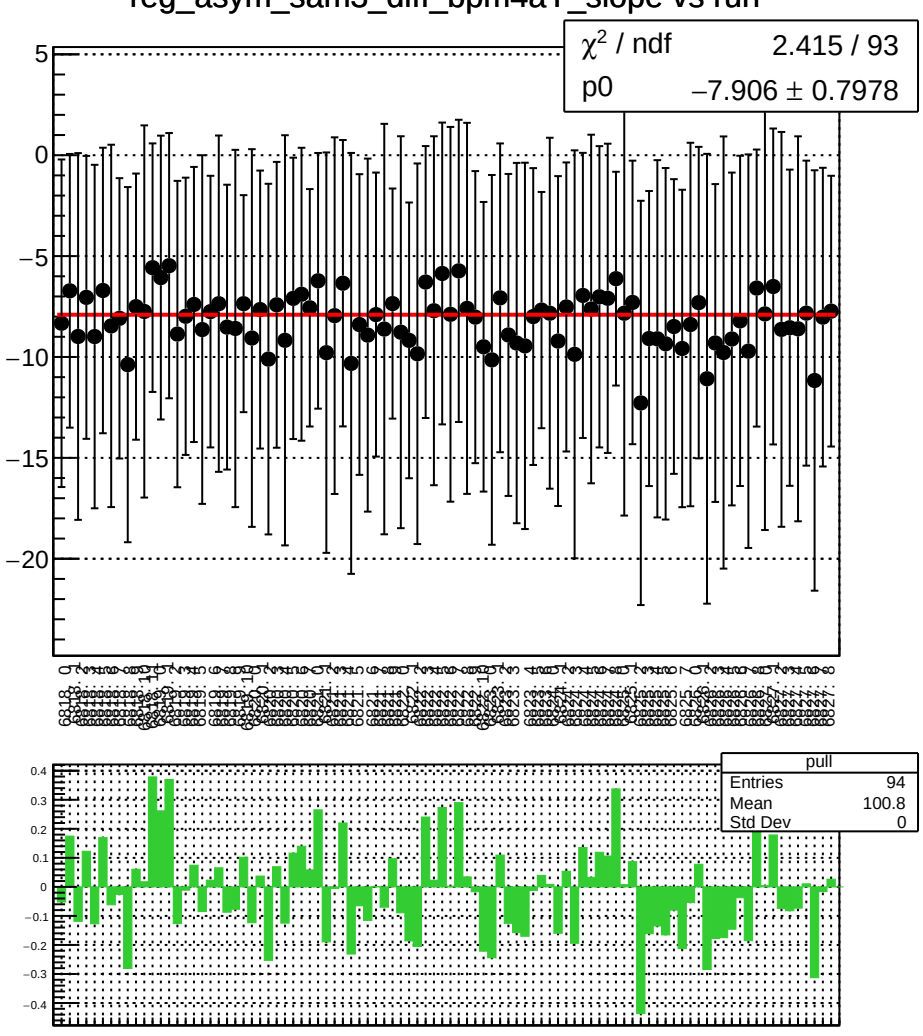

pull1D
Entries 94
Mean 0.002004
Std Dev 0.3269
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

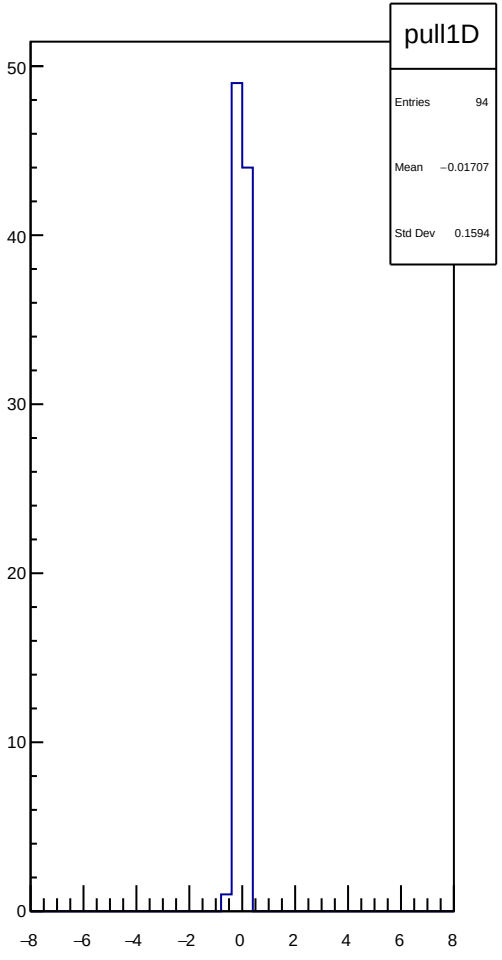

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 18.94 / 93
p0 −131.6 ± 2.027
−80
−100
−120
−140
−160
−180
pull
Entries 94
Mean 289.8
Std Dev 0
1
0.5
0
−0.5
−1

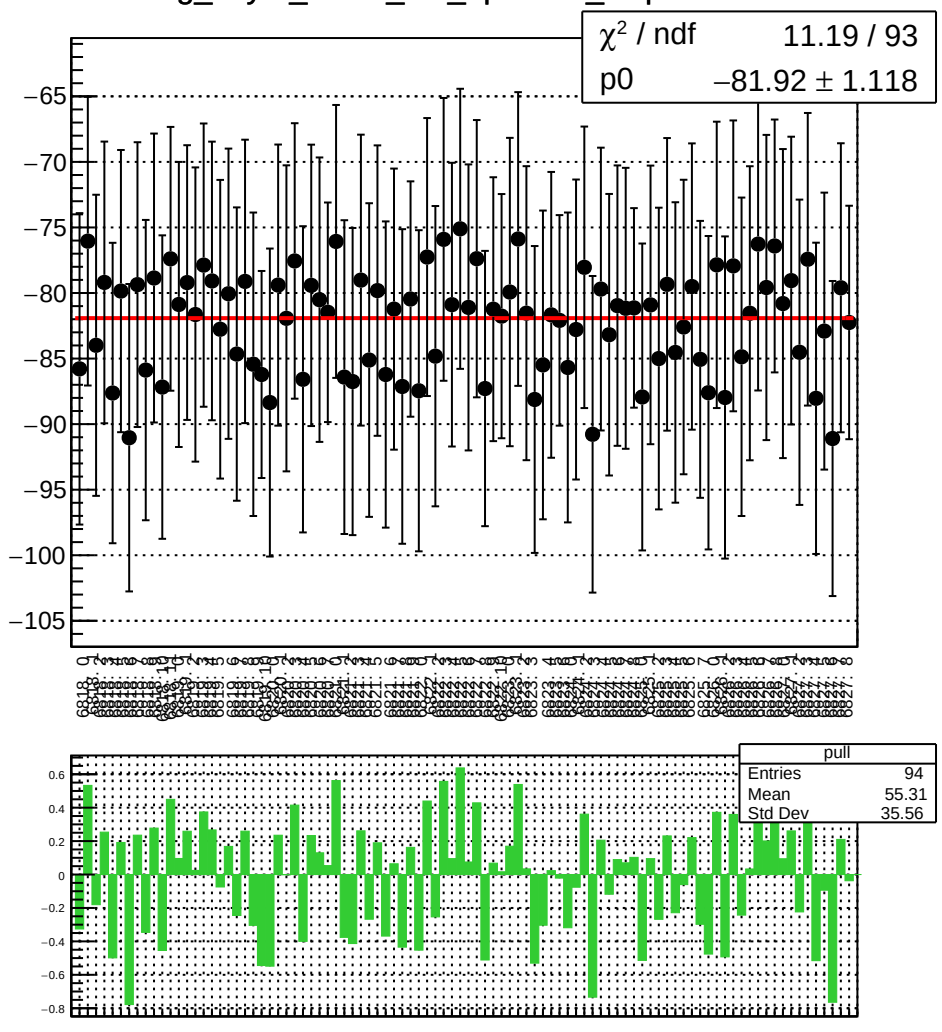

pull1D
Entries 94
Mean 0.02585
Std Dev 0.4482
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

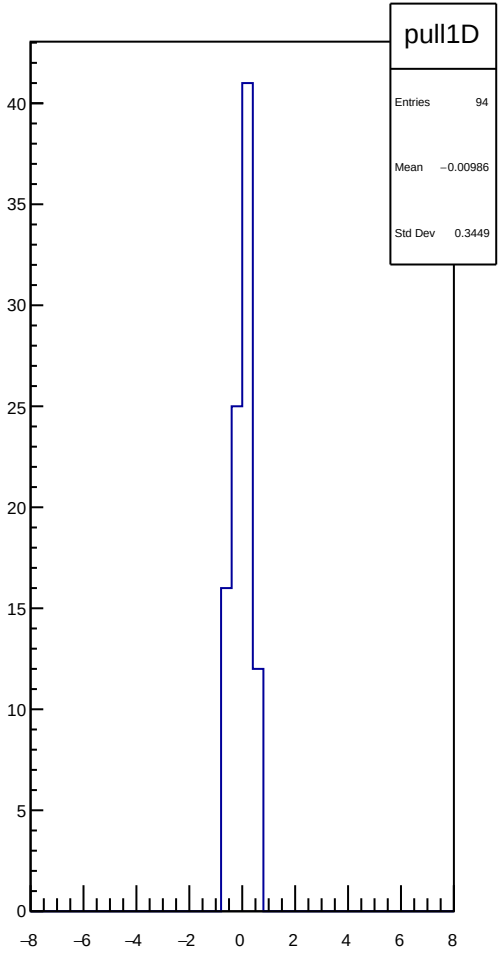

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 14.24 / 93
p0 1.349 ± 0.09914
pull
Entries 94
Mean −939.8
Std Dev 0
pull1D
Entries 94
Mean 0.005573
Std Dev 0.3892

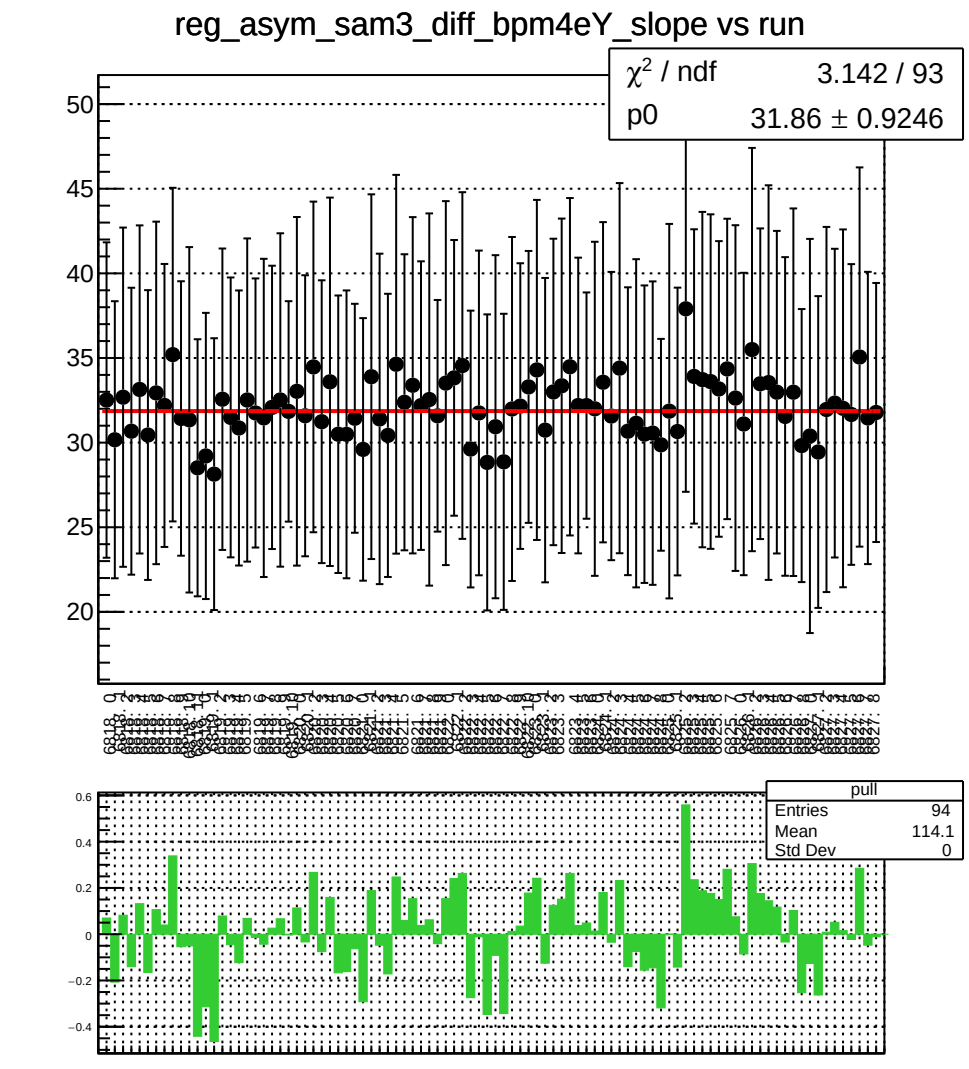

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.739 / 93
p0 −39.7 ± 1.197
pull
Entries 94
Mean −49.42
Std Dev 0
pull1D
Entries 94
Mean 0.001145
Std Dev 0.2245

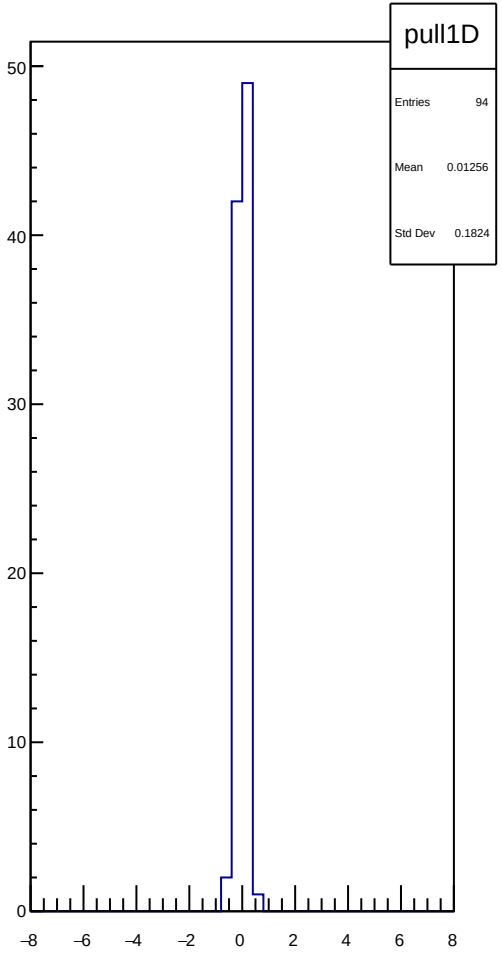

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 2.415 / 93
p0 −7.906 ± 0.7978
pull
Entries 94
Mean 100.8
Std Dev 0

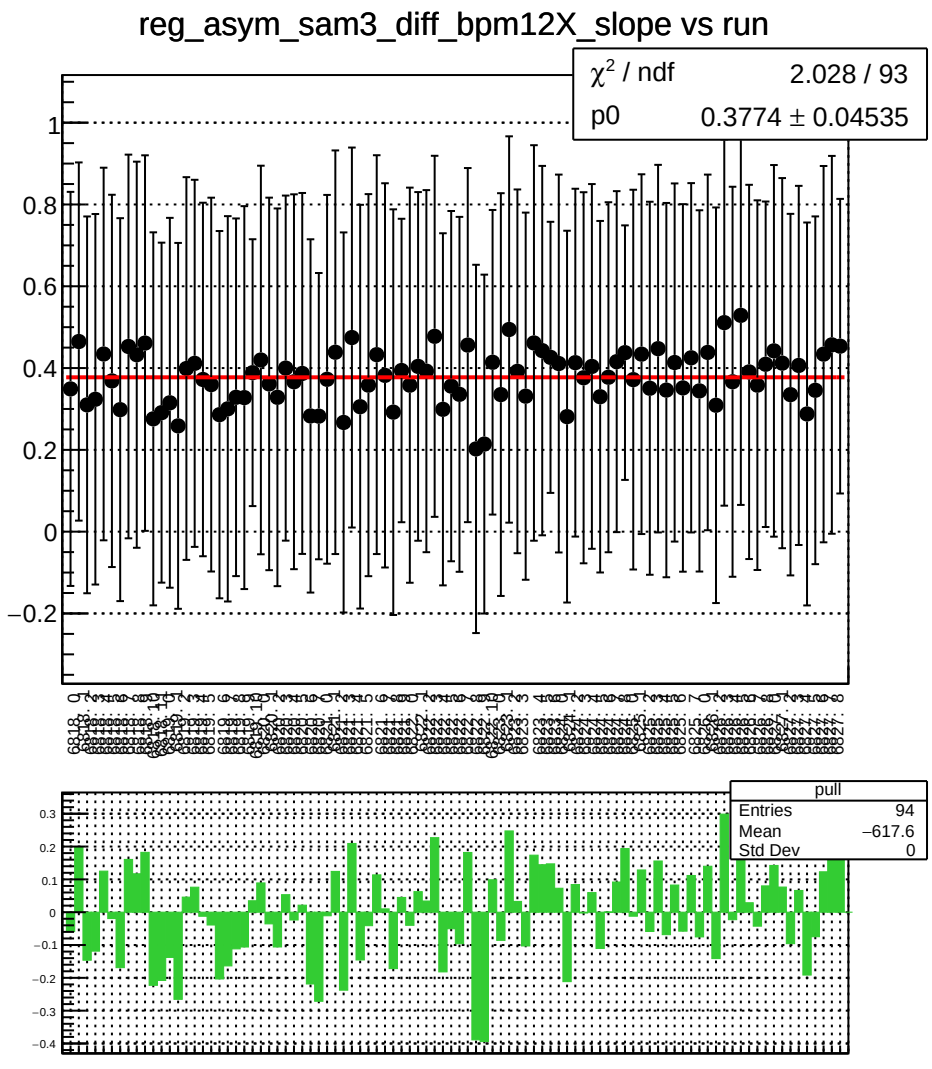

pull1D
Entries 94
Mean −0.01707
Std Dev 0.1594

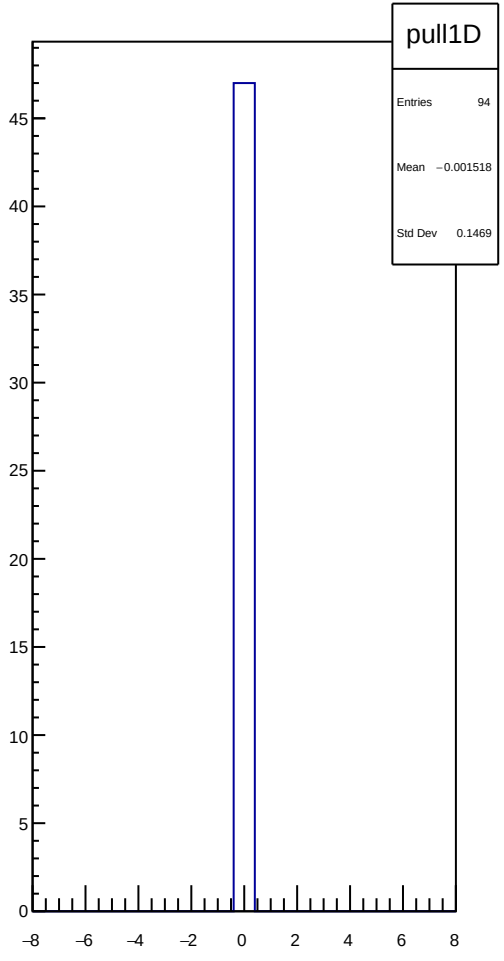

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 11.19 / 93
p0 −81.92 ± 1.118
pull
Entries 94
Mean 55.31
Std Dev 35.56

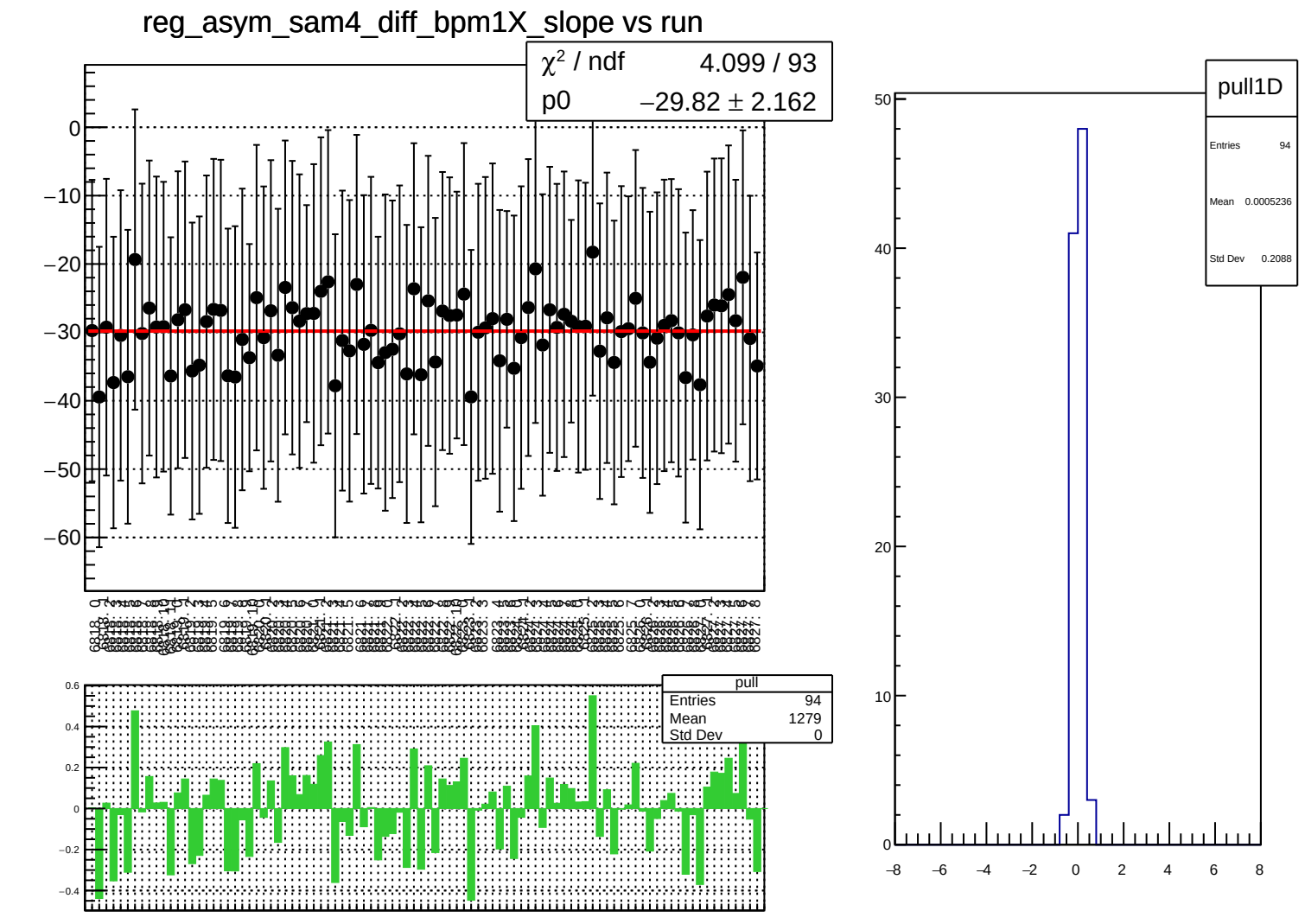

pull1D
Entries 94
Mean −0.00986
Std Dev 0.3449

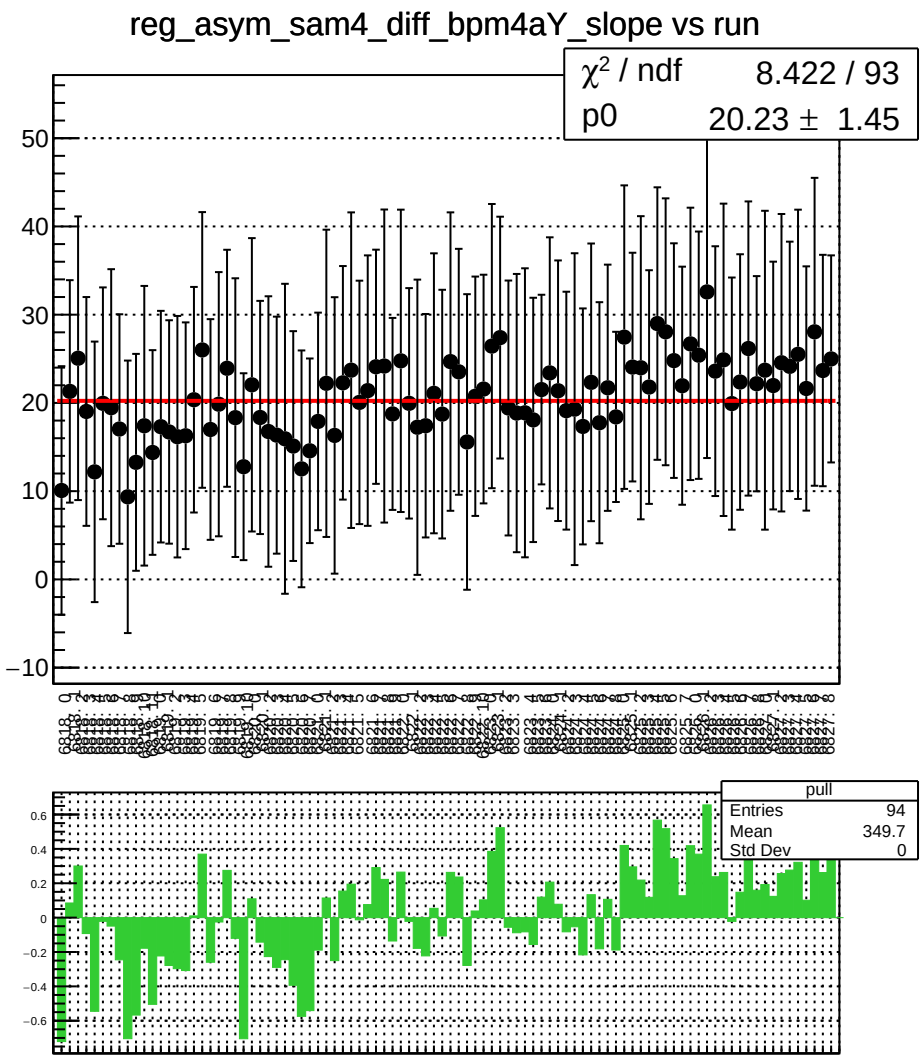

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 3.142 / 93
p0 31.86 ± 0.9246
pull
Entries 94
Mean 114.1
Std Dev 0

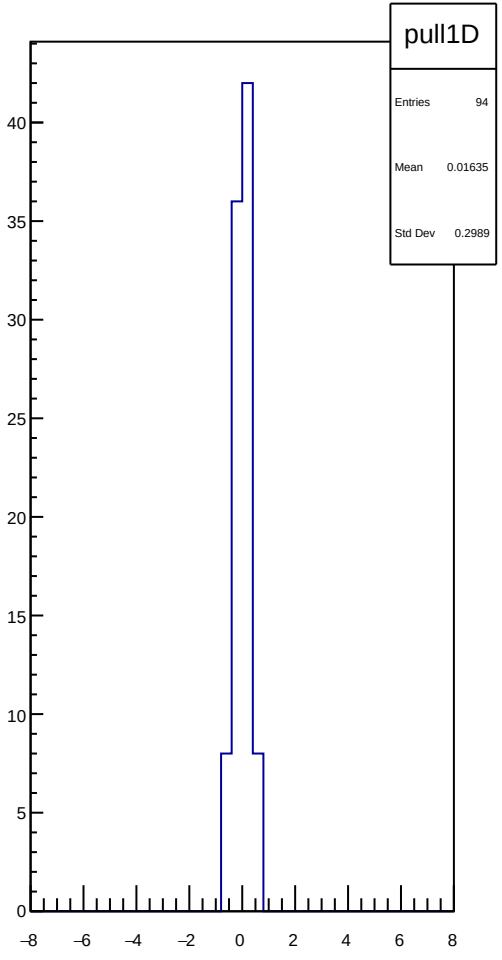

pull1D
Entries 94
Mean 0.01256
Std Dev 0.1824

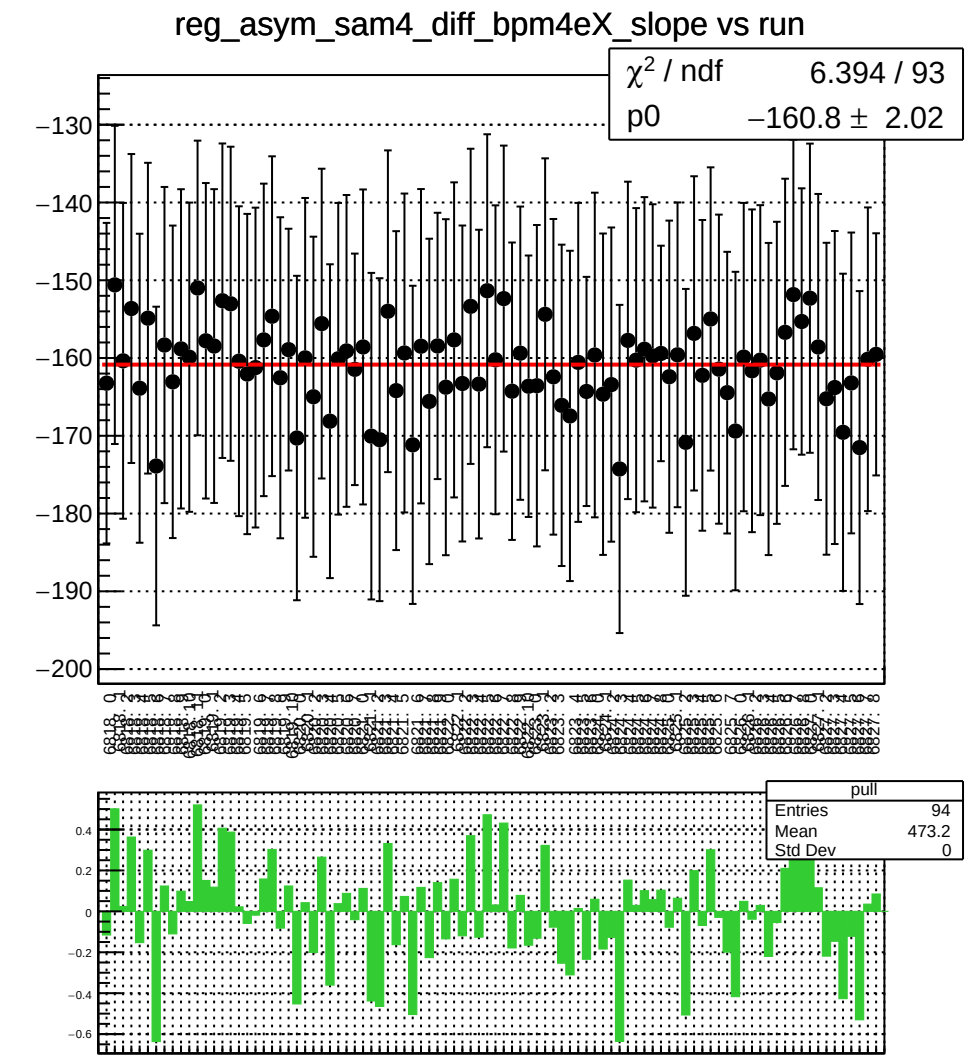

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 2.028 / 93
p0 0.3774 ± 0.04535
pull
Entries 94
Mean −617.6
Std Dev 0

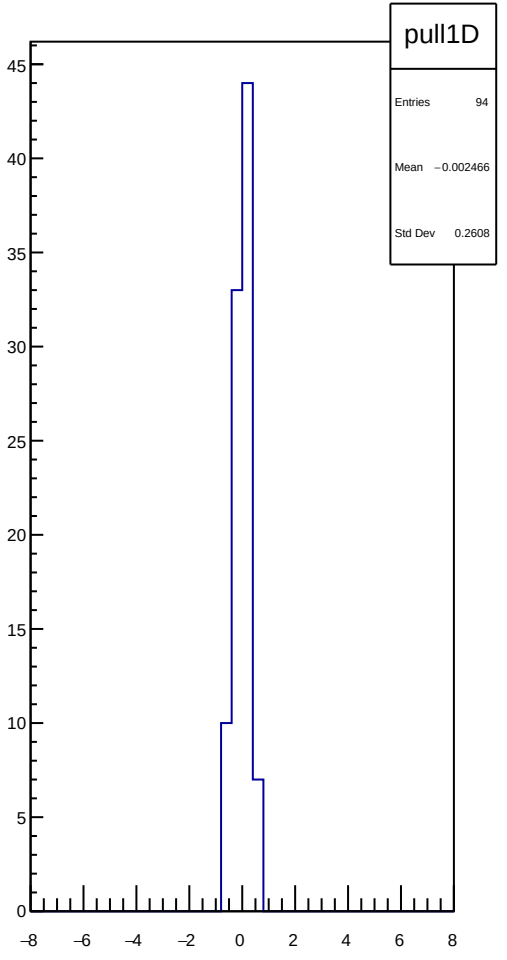

pull1D
Entries 94
Mean −0.001518
Std Dev 0.1469

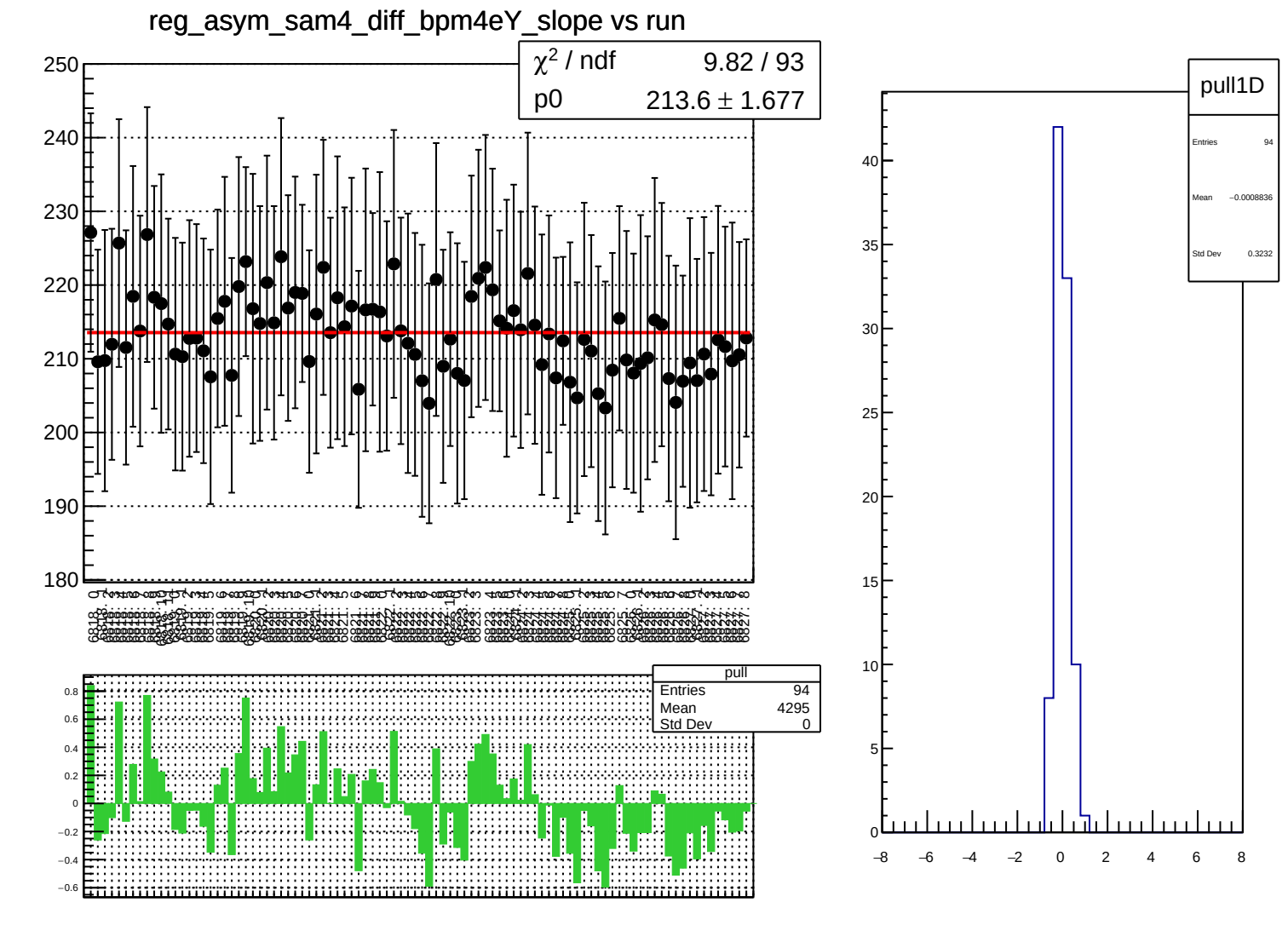

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 4.099 / 93
p0 −29.82 ± 2.162
pull
Entries 94
Mean 1279
Std Dev 0
pull1D
Entries 94
Mean 0.0005236
Std Dev 0.2088

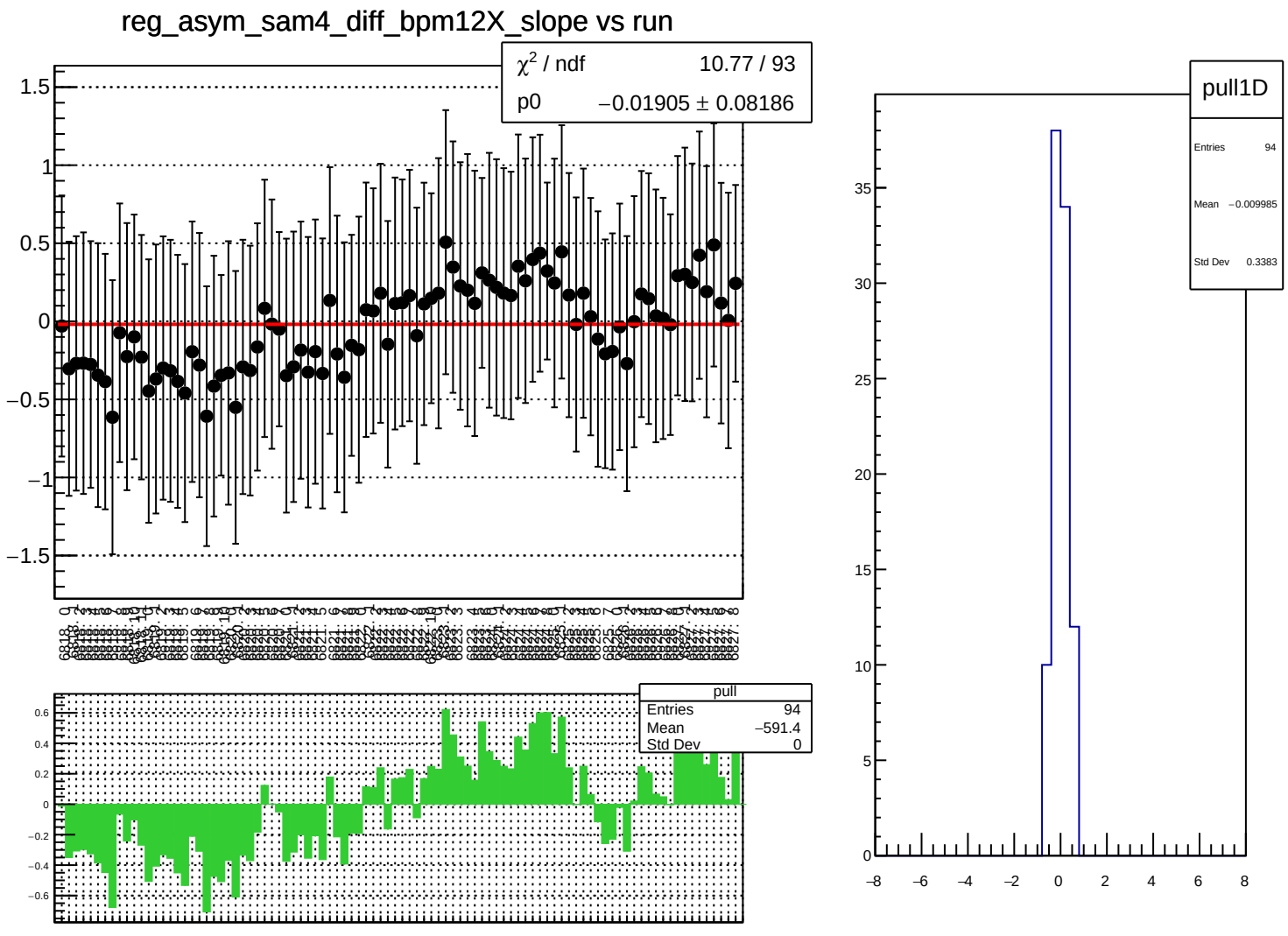

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 8.422 / 93
p0 20.23 ± 1.45
pull
Entries 94
Mean 349.7
Std Dev 0

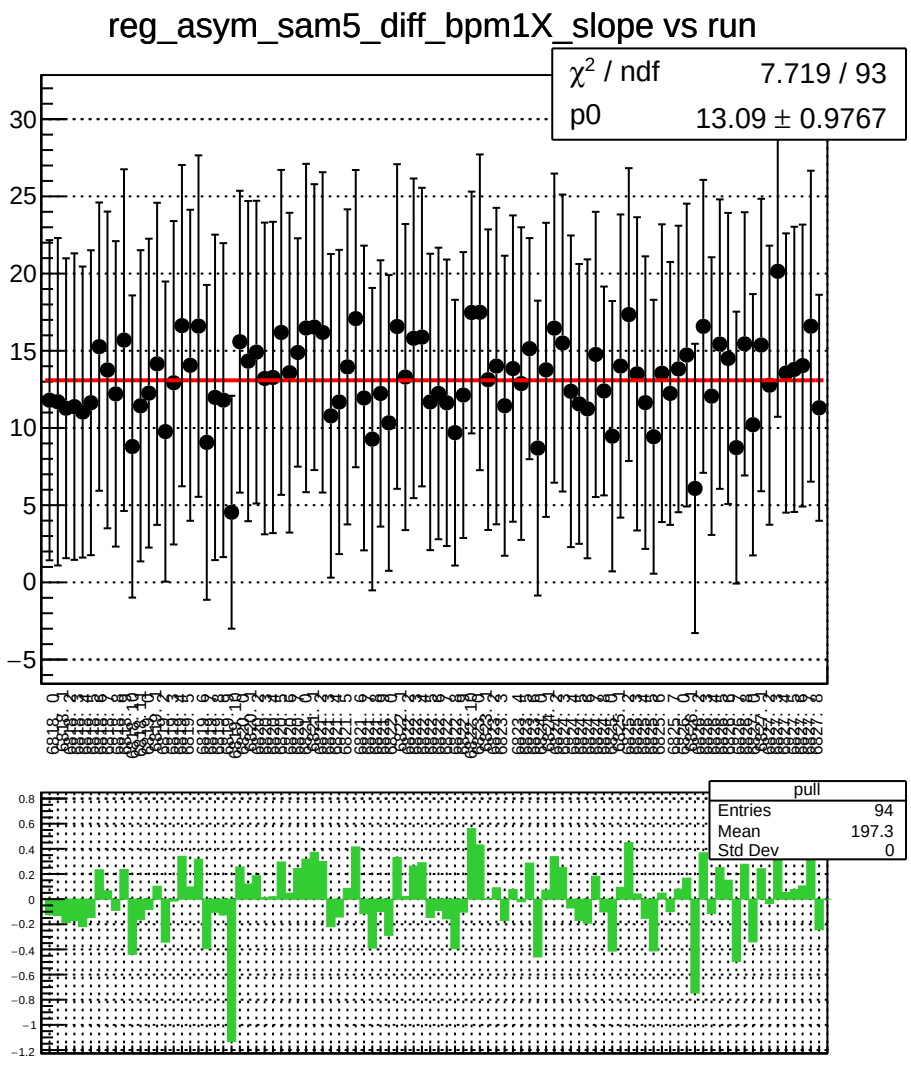

pull1D
Entries 94
Mean 0.01635
Std Dev 0.2989

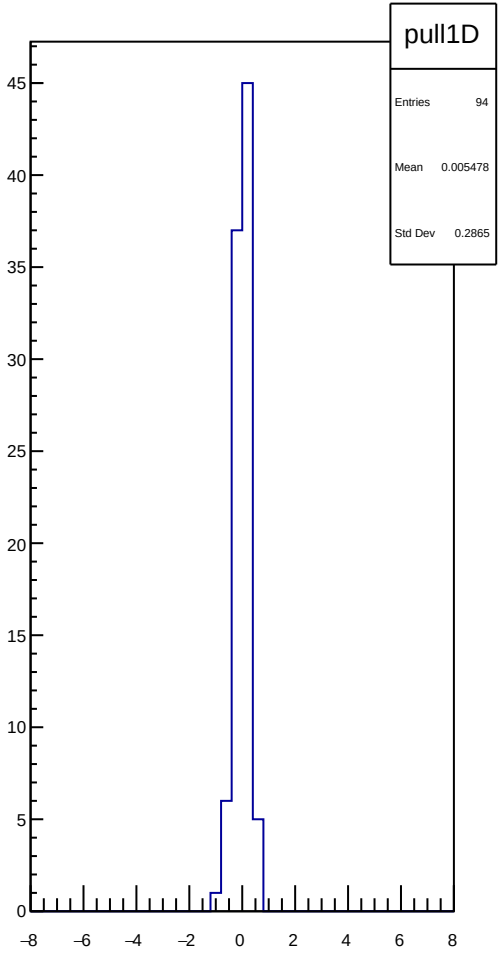

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 6.394 / 93
p0 −160.8 ± 2.02
−130
−140
−150
−160
−170
−180
−190
−200
pull
Entries 94
Mean 473.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

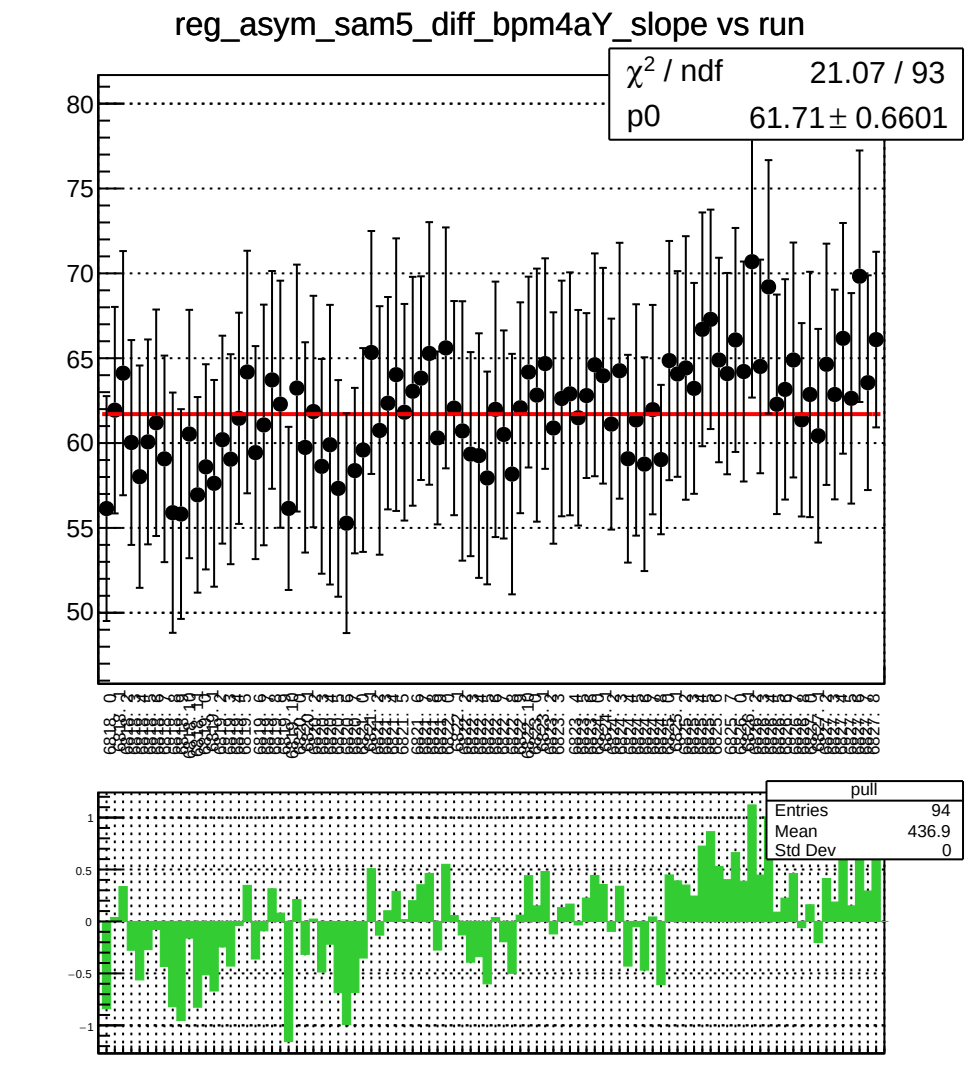

pull1D
Entries 94
Mean −0.002466
Std Dev 0.2608
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

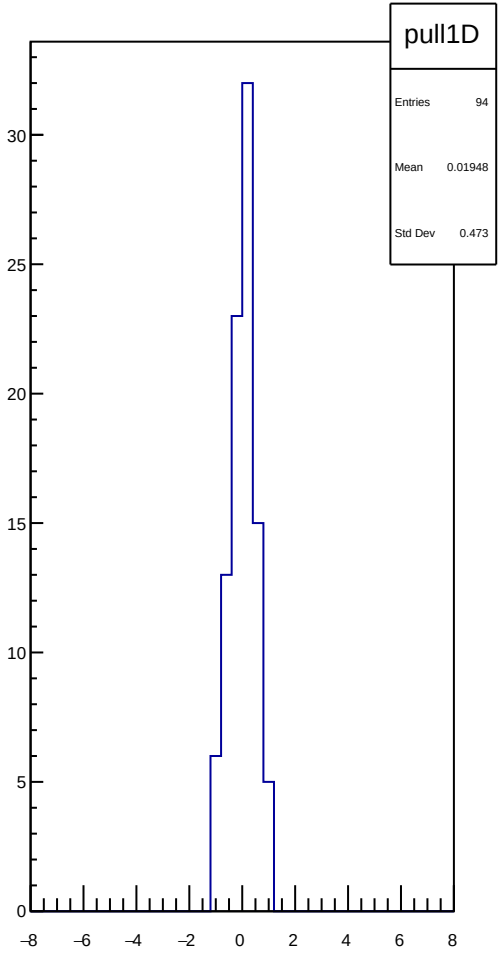

reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 9.82 / 93
p0 213.6 ± 1.677
pull
Entries 94
Mean 4295
Std Dev 0
pull1D
Entries 94
Mean −0.0008836
Std Dev 0.3232

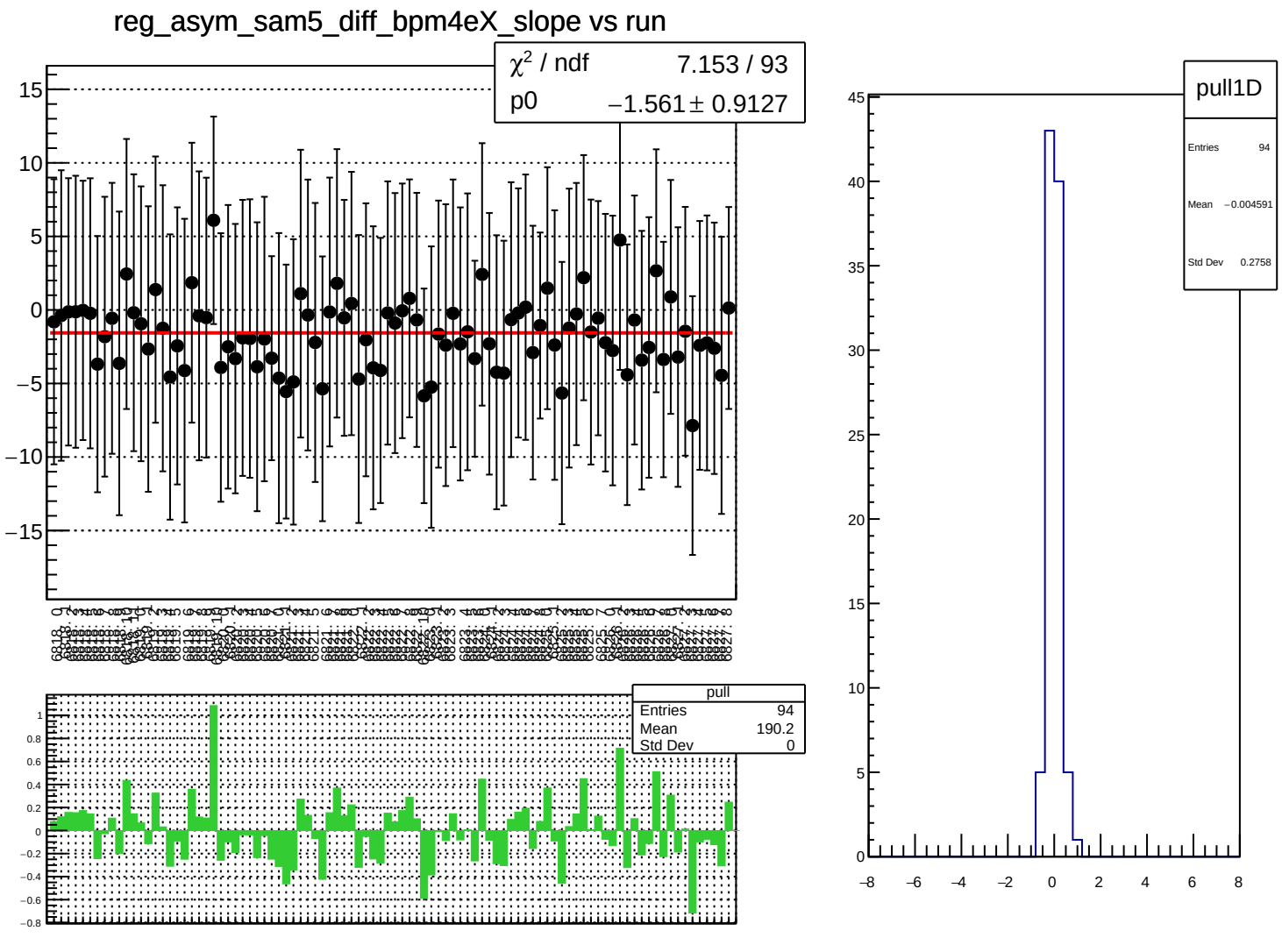

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 10.77 / 93
p0 −0.01905 ± 0.08186
pull
Entries 94
Mean −591.4
Std Dev 0
pull1D
Entries 94
Mean −0.009985
Std Dev 0.3383

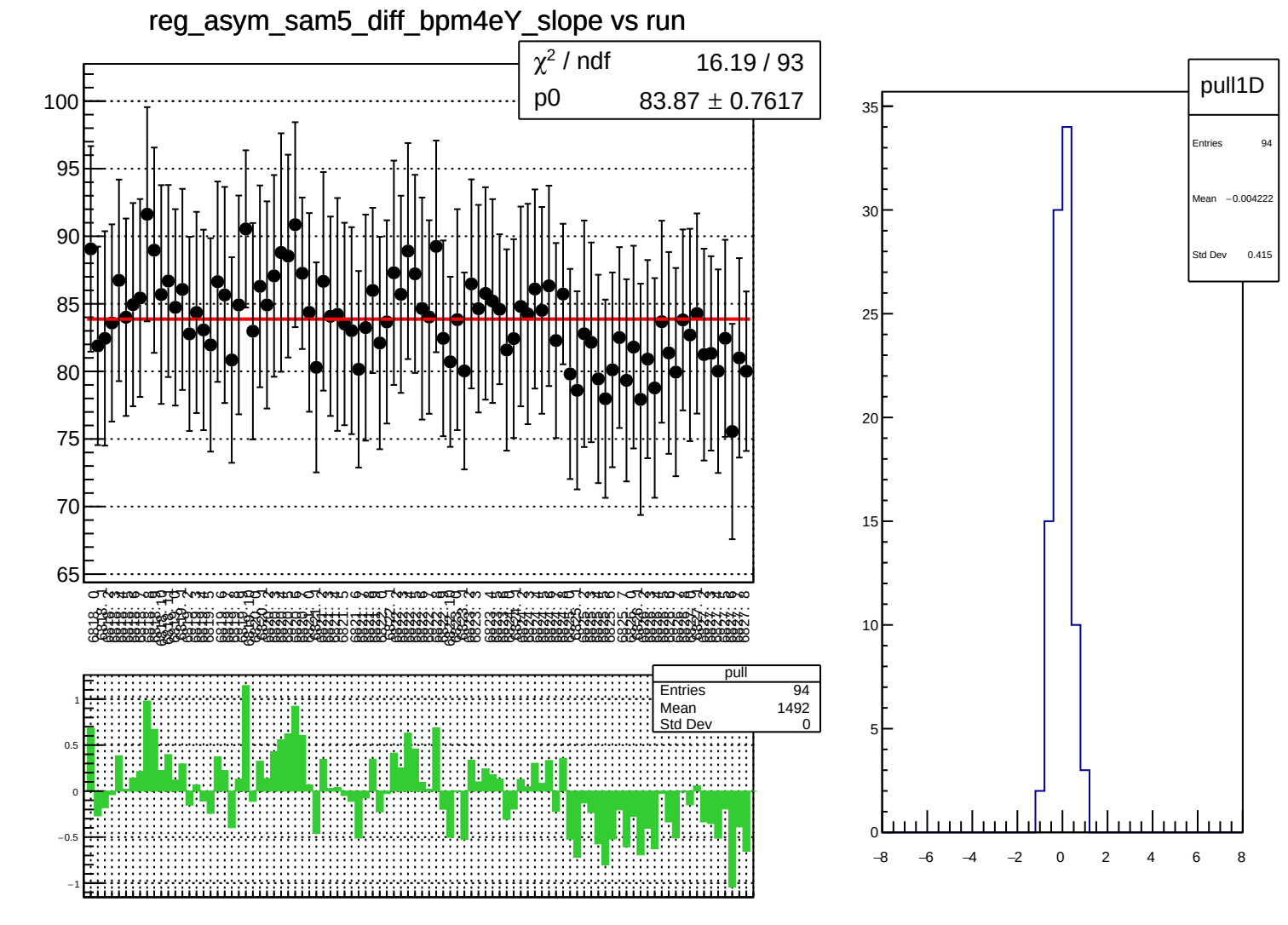

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.719 / 93
p0 13.09 ± 0.9767
pull
Entries 94
Mean 197.3
Std Dev 0

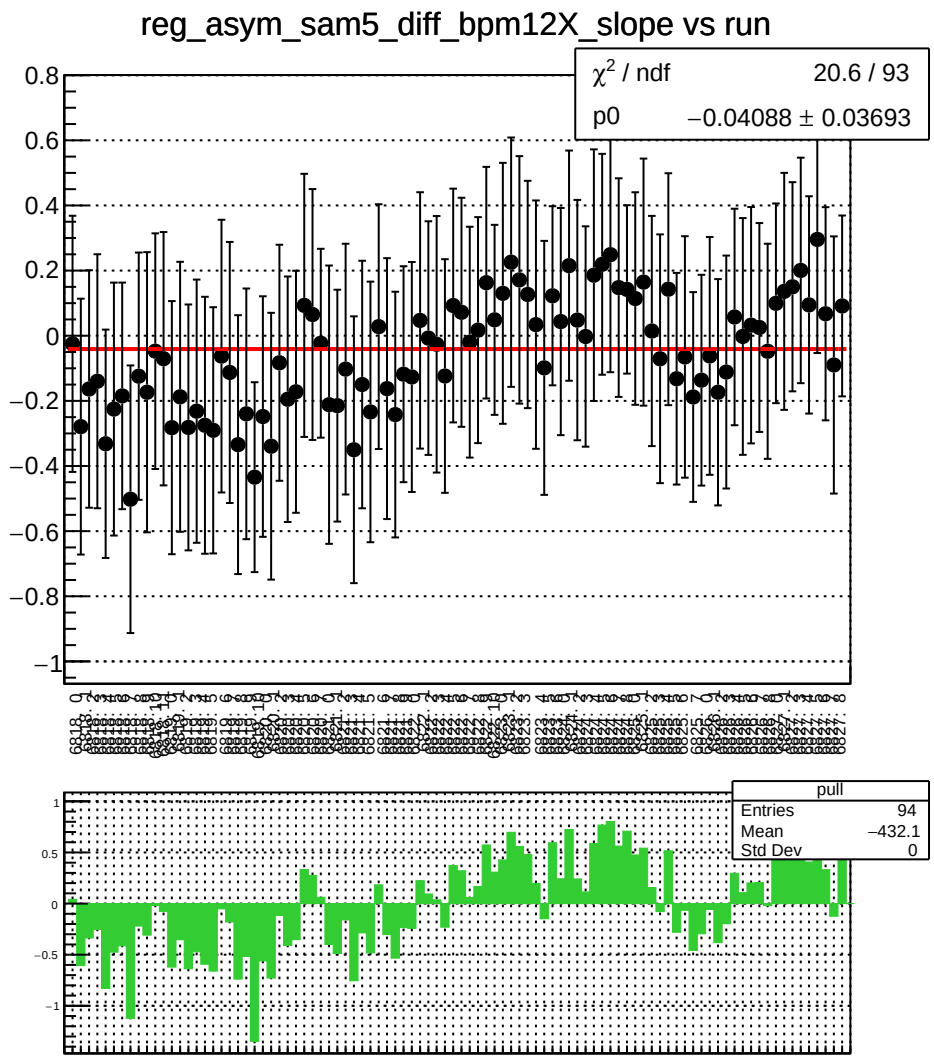

pull1D
Entries 94
Mean 0.005478
Std Dev 0.2865

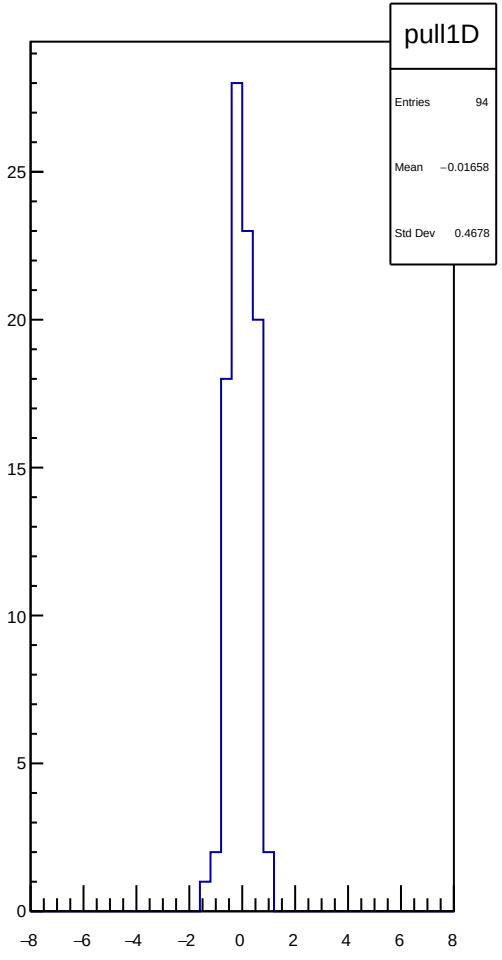

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 21.07 / 93
p0 61.71 ± 0.6601
pull
Entries 94
Mean 436.9
Std Dev 0

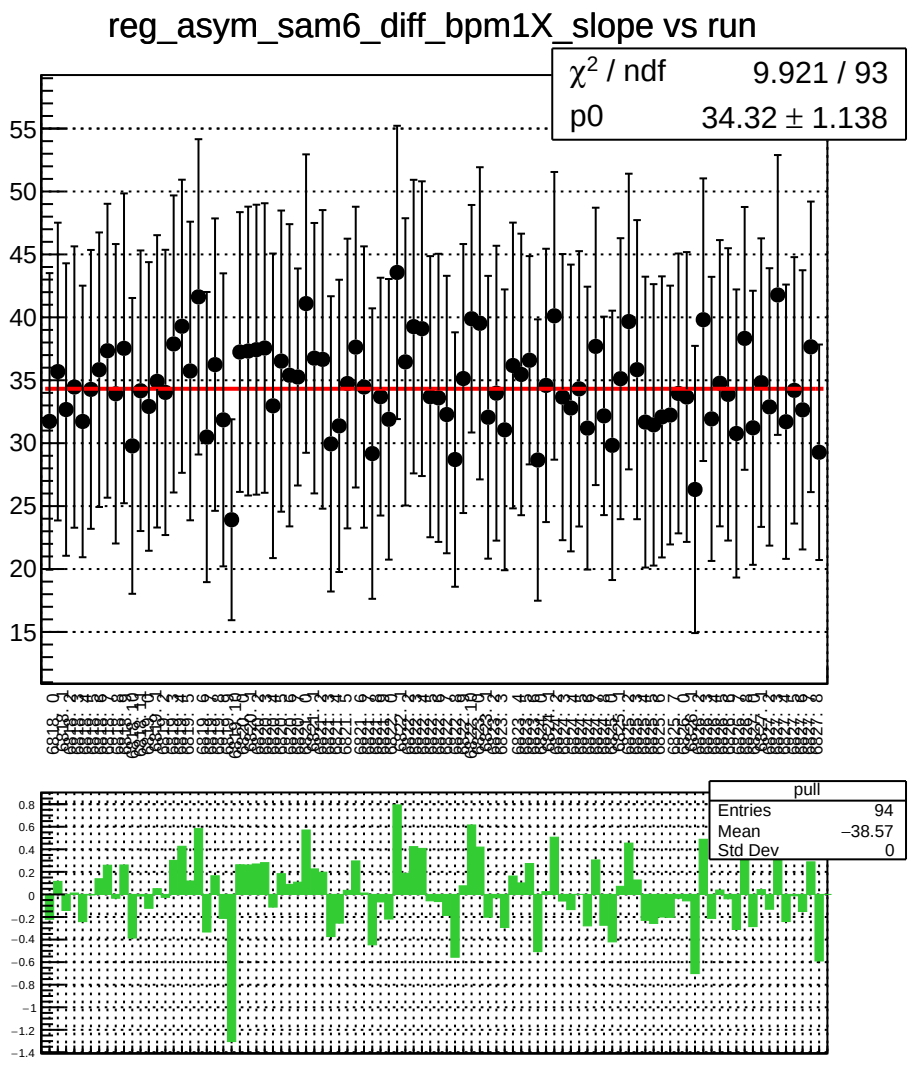

pull1D
Entries 94
Mean 0.01948
Std Dev 0.473

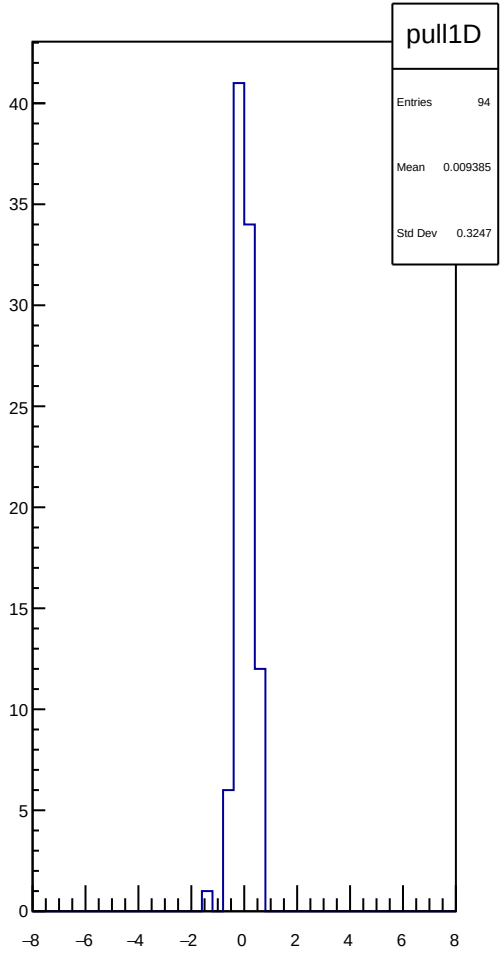

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.153 / 93
p0 −1.561 ± 0.9127
pull
Entries 94
Mean 190.2
Std Dev 0
pull1D
Entries 94
Mean −0.004591
Std Dev 0.2758

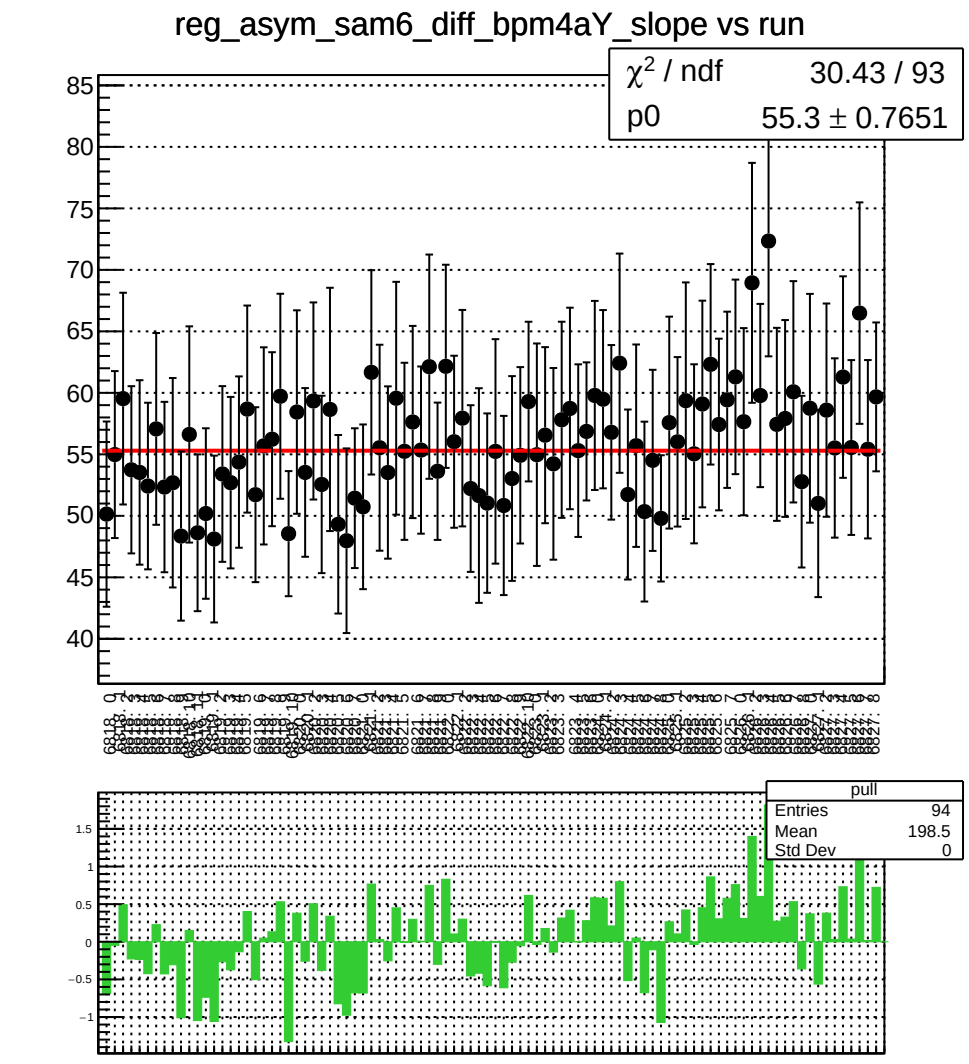

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 16.19 / 93
p0 83.87 ± 0.7617
pull
Entries 94
Mean 1492
Std Dev 0
pull1D
Entries 94
Mean −0.004222
Std Dev 0.415

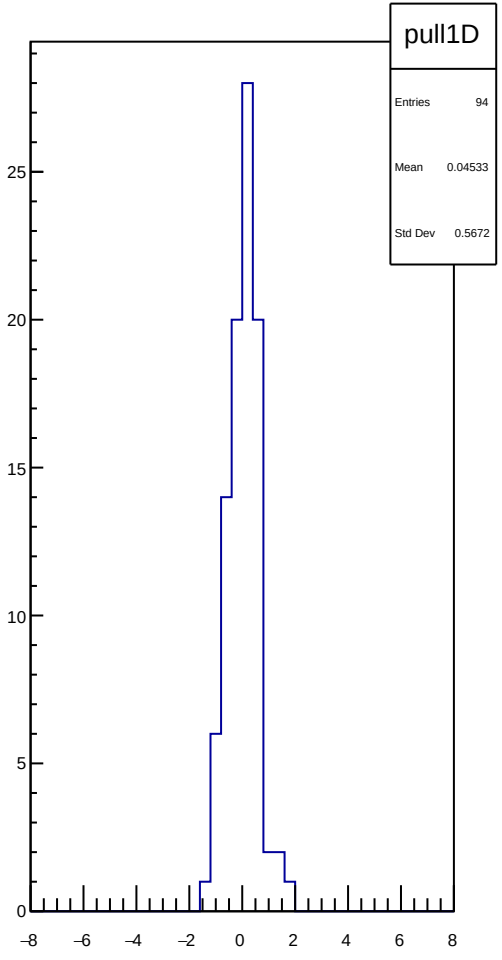

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 20.6 / 93
p0 −0.04088 ± 0.03693
pull
Entries 94
Mean −432.1
Std Dev 0

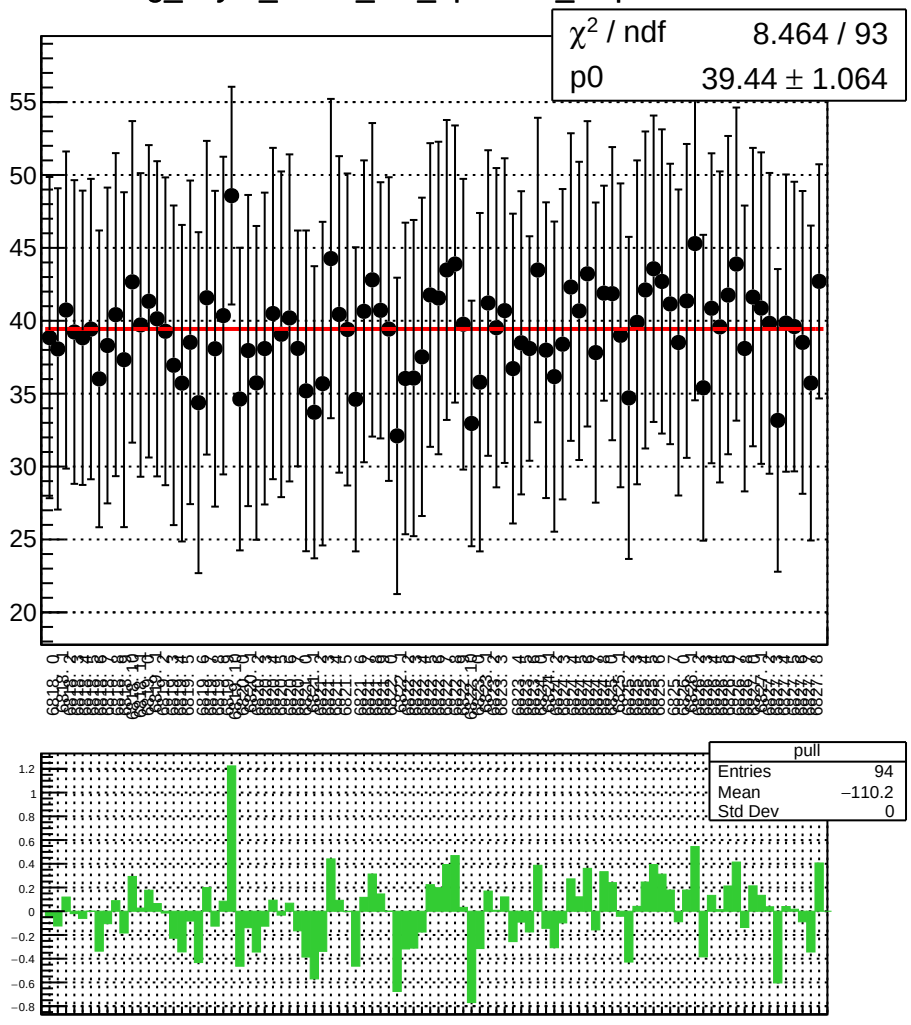

pull1D
Entries 94
Mean −0.01658
Std Dev 0.4678

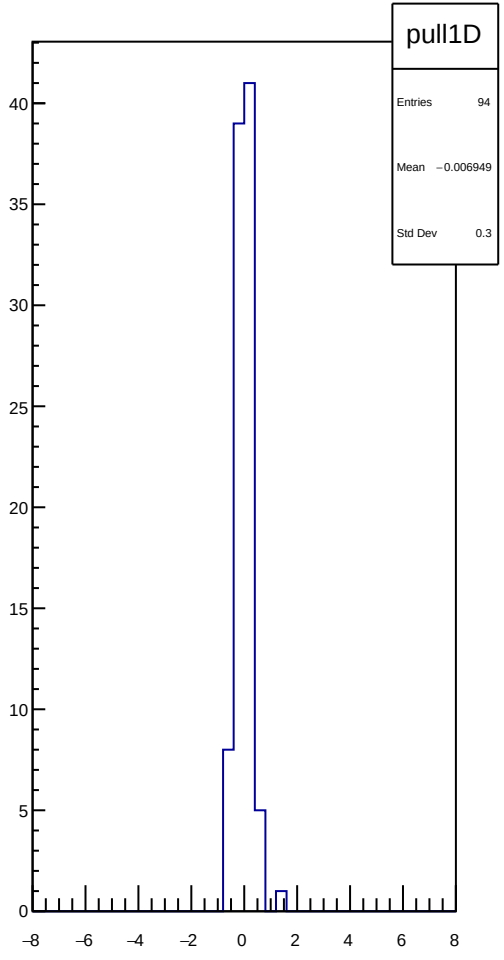

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 9.921 / 93
p0 34.32 ± 1.138
pull
Entries 94
Mean −38.57
Std Dev 0

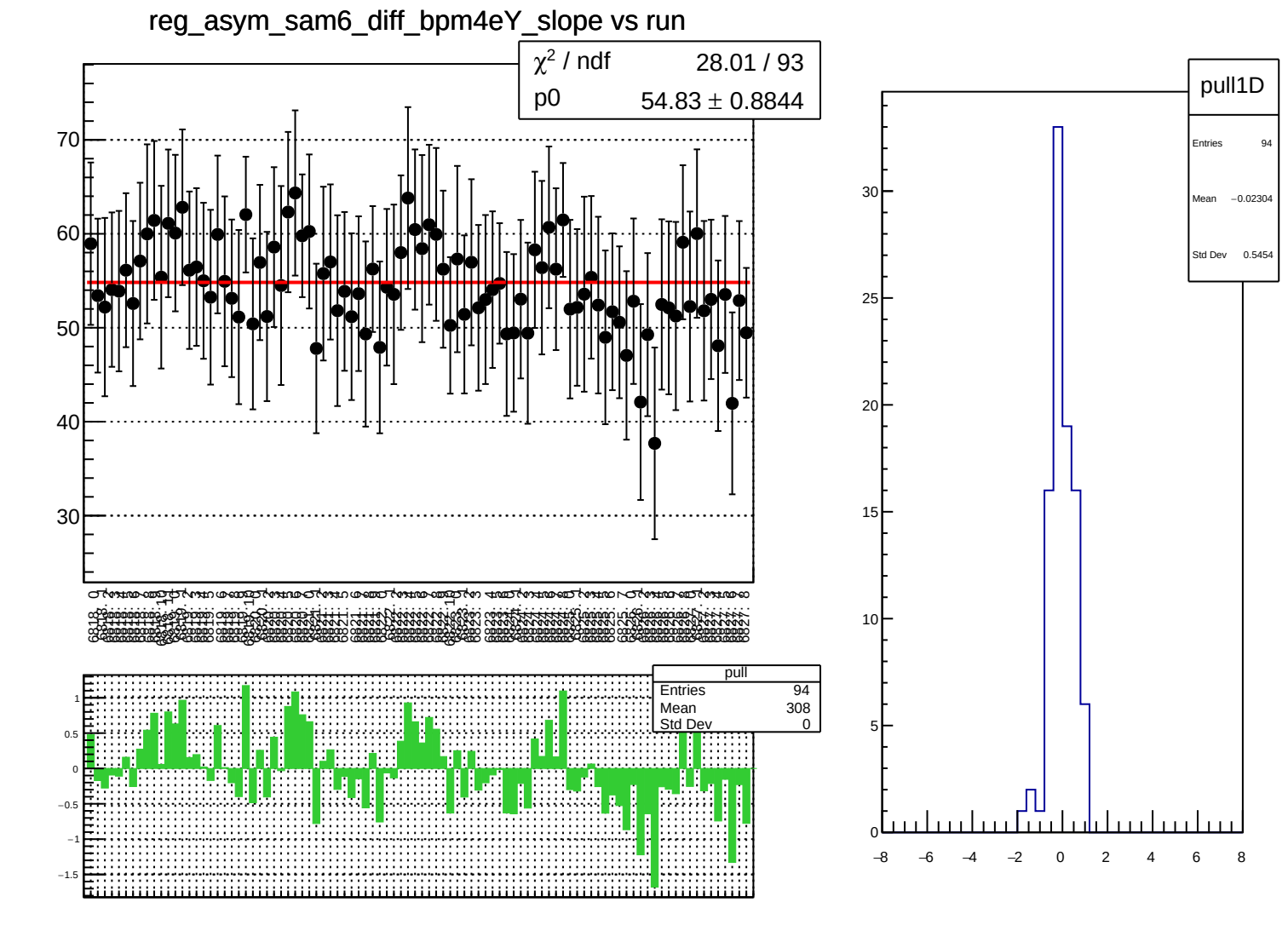

pull1D
Entries 94
Mean 0.009385
Std Dev 0.3247

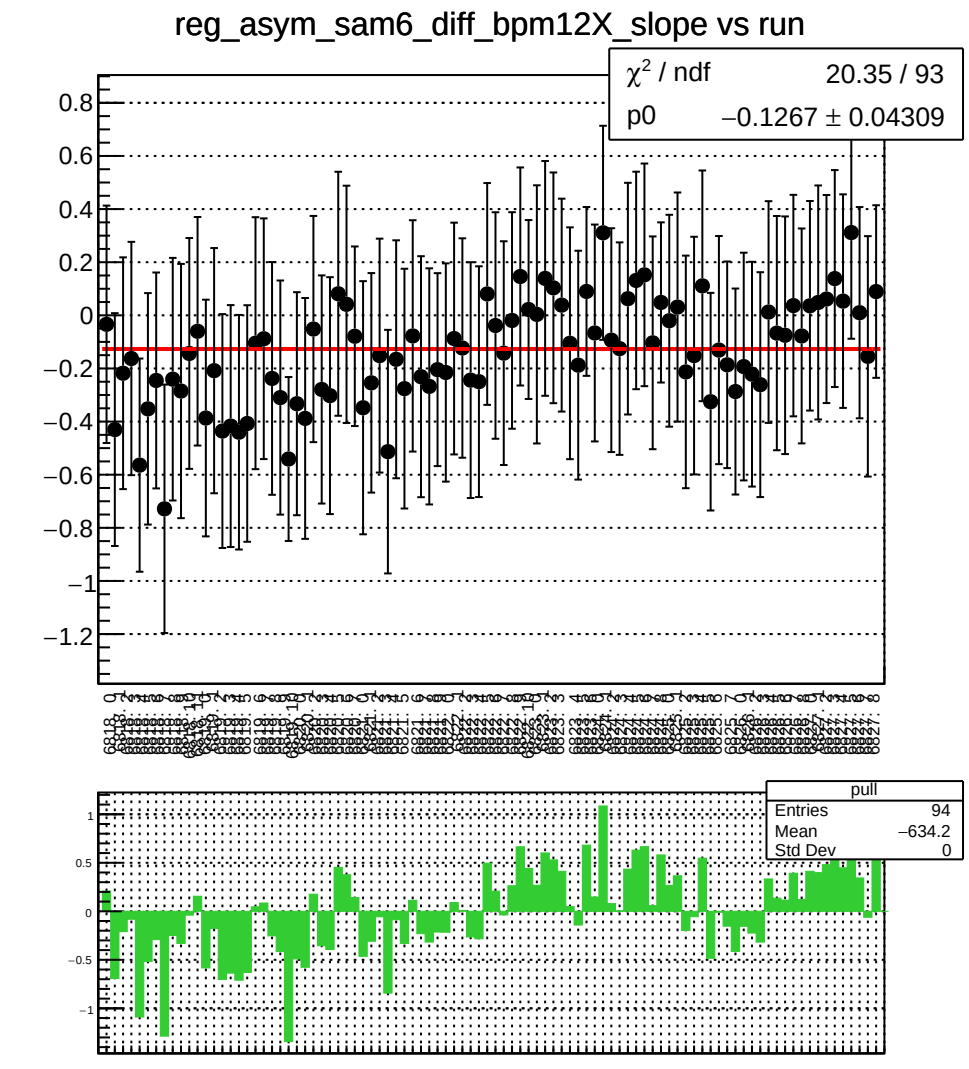

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 30.43 / 93
p0 55.3 ± 0.7651
pull
Entries 94
Mean 198.5
Std Dev 0

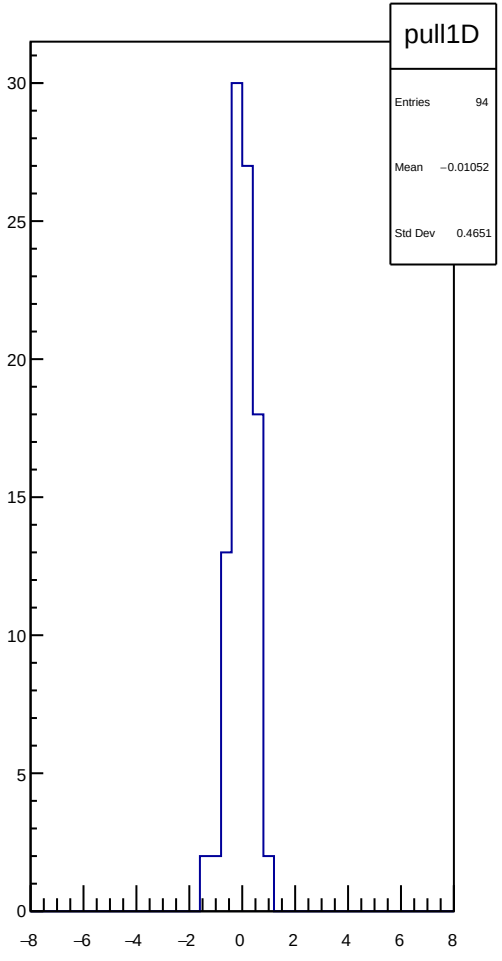

pull1D
Entries 94
Mean 0.04533
Std Dev 0.5672

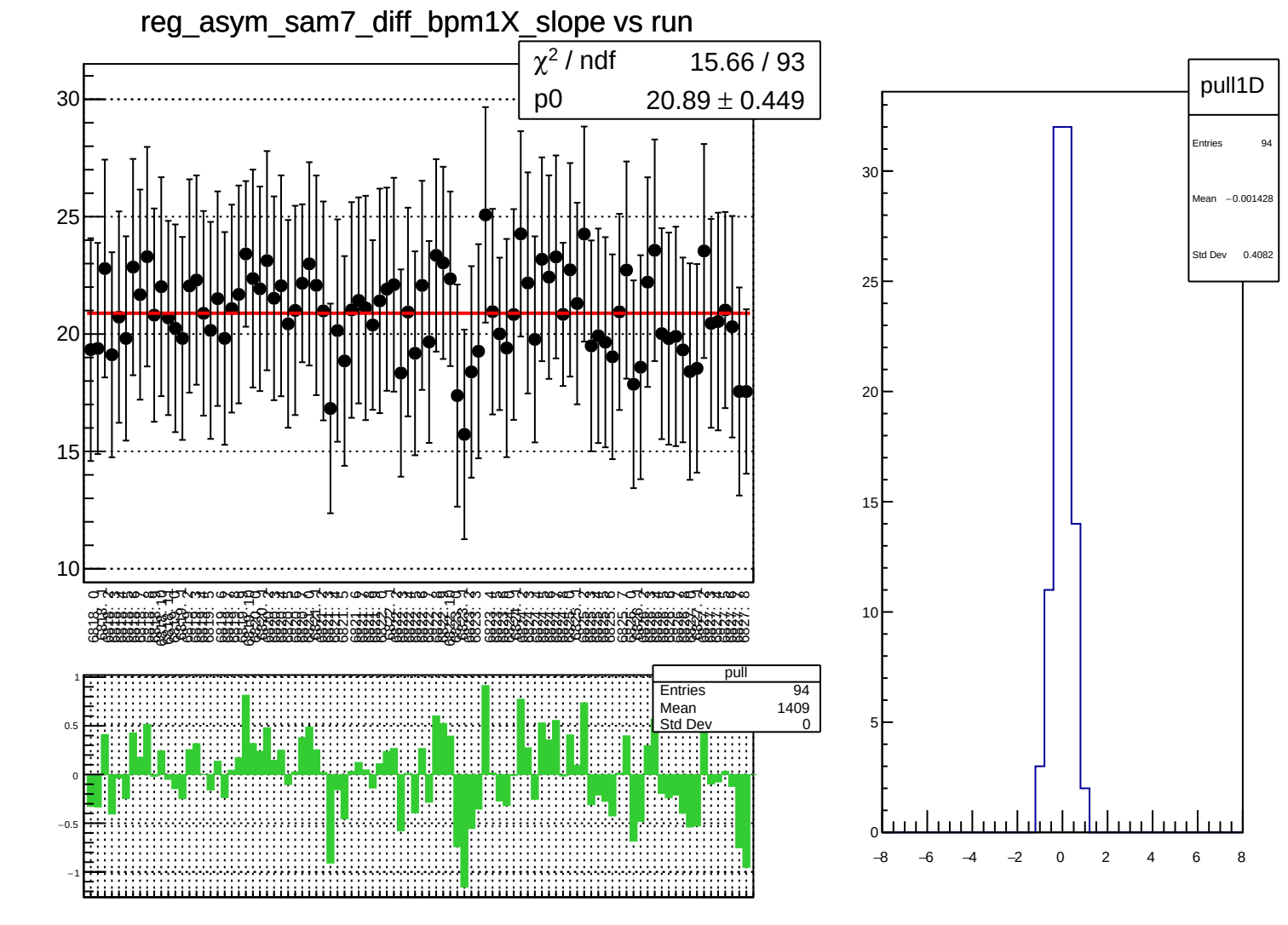

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.464 / 93
p0 39.44 ± 1.064
pull
Entries 94
Mean −110.2
Std Dev 0

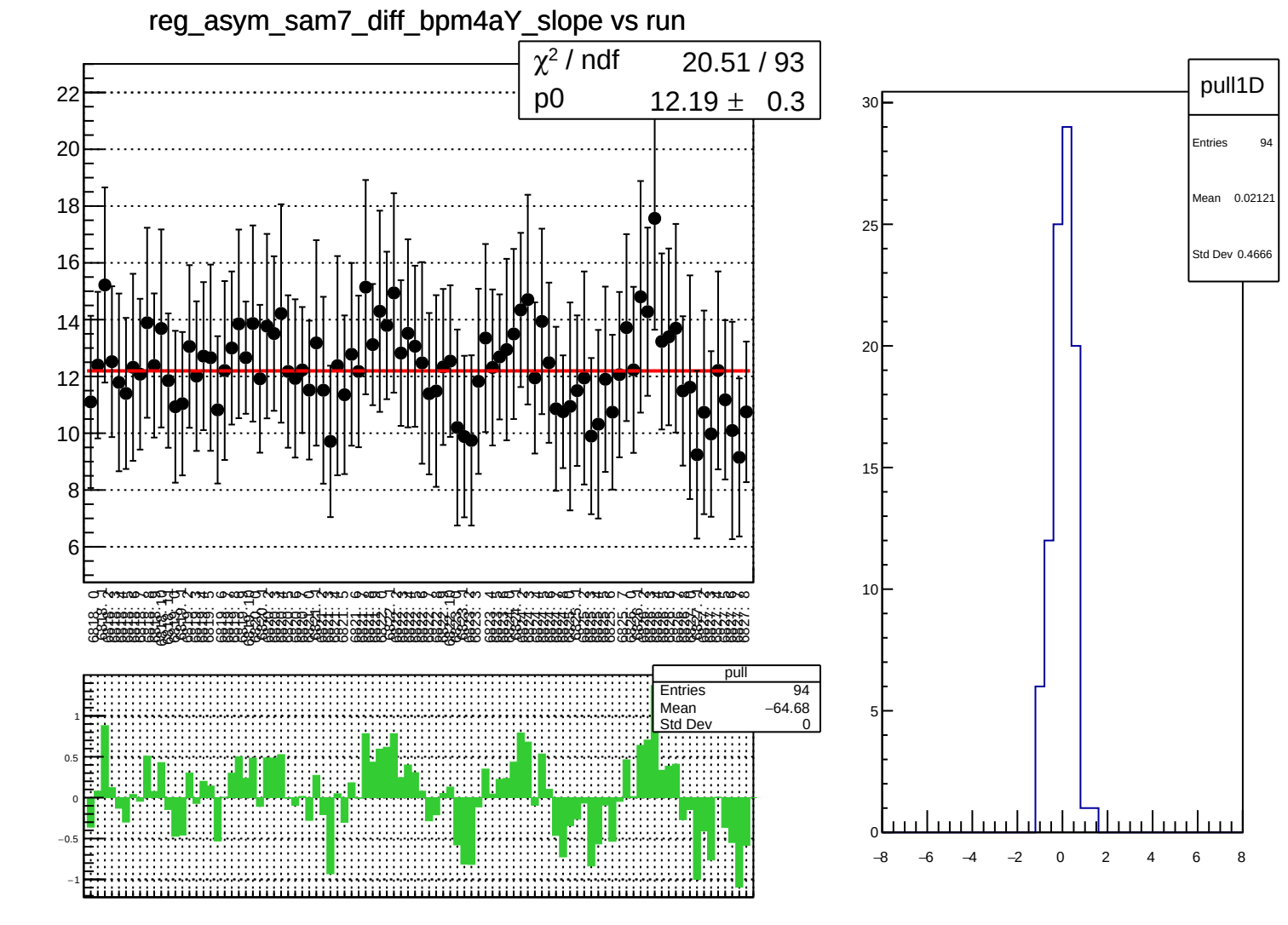

pull1D
Entries 94
Mean −0.006949
Std Dev 0.3

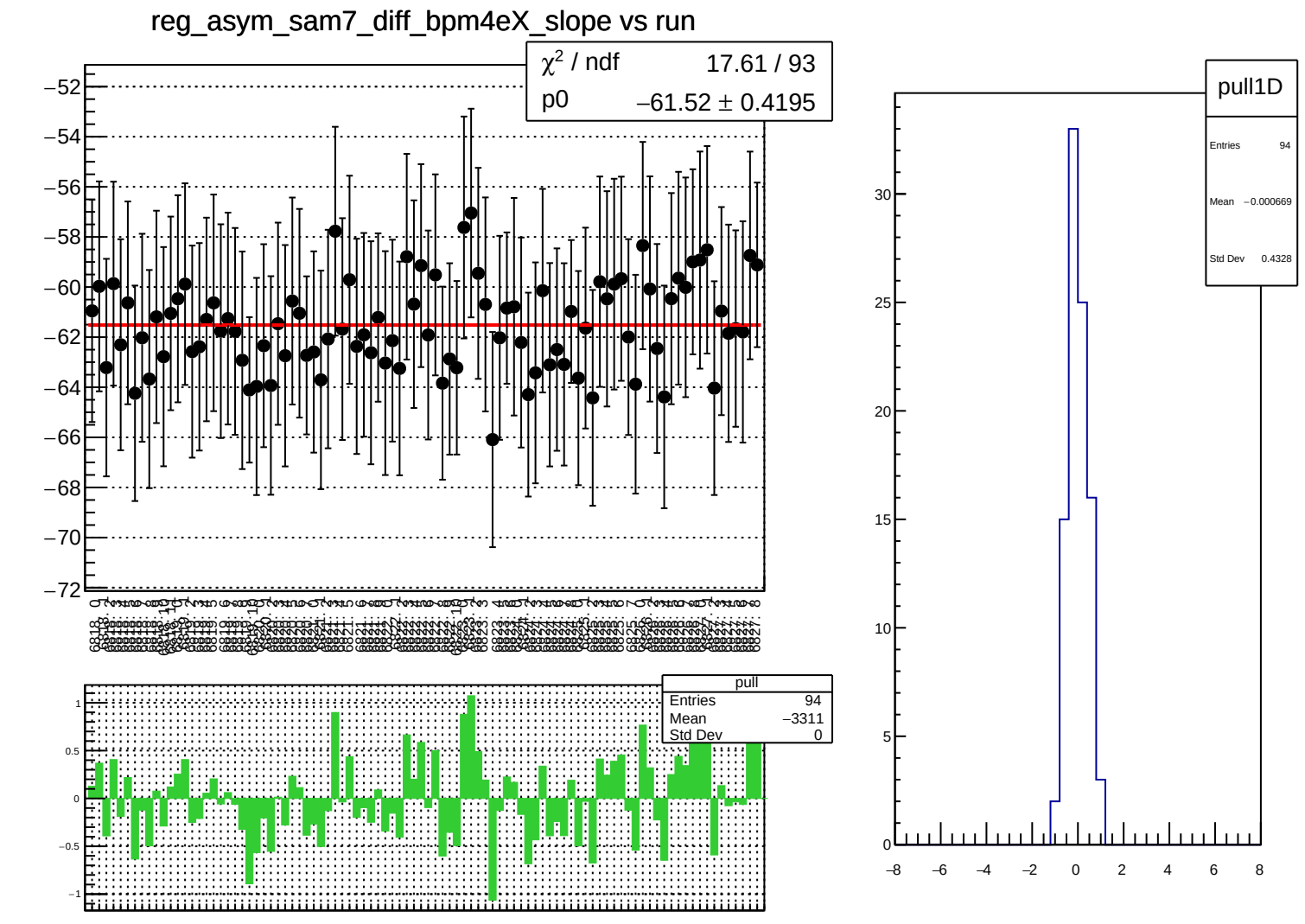

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 28.01 / 93
p0 54.83 ± 0.8844
70
60
50
40
30
pull
Entries 94
Mean 308
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.02304
Std Dev 0.5454
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

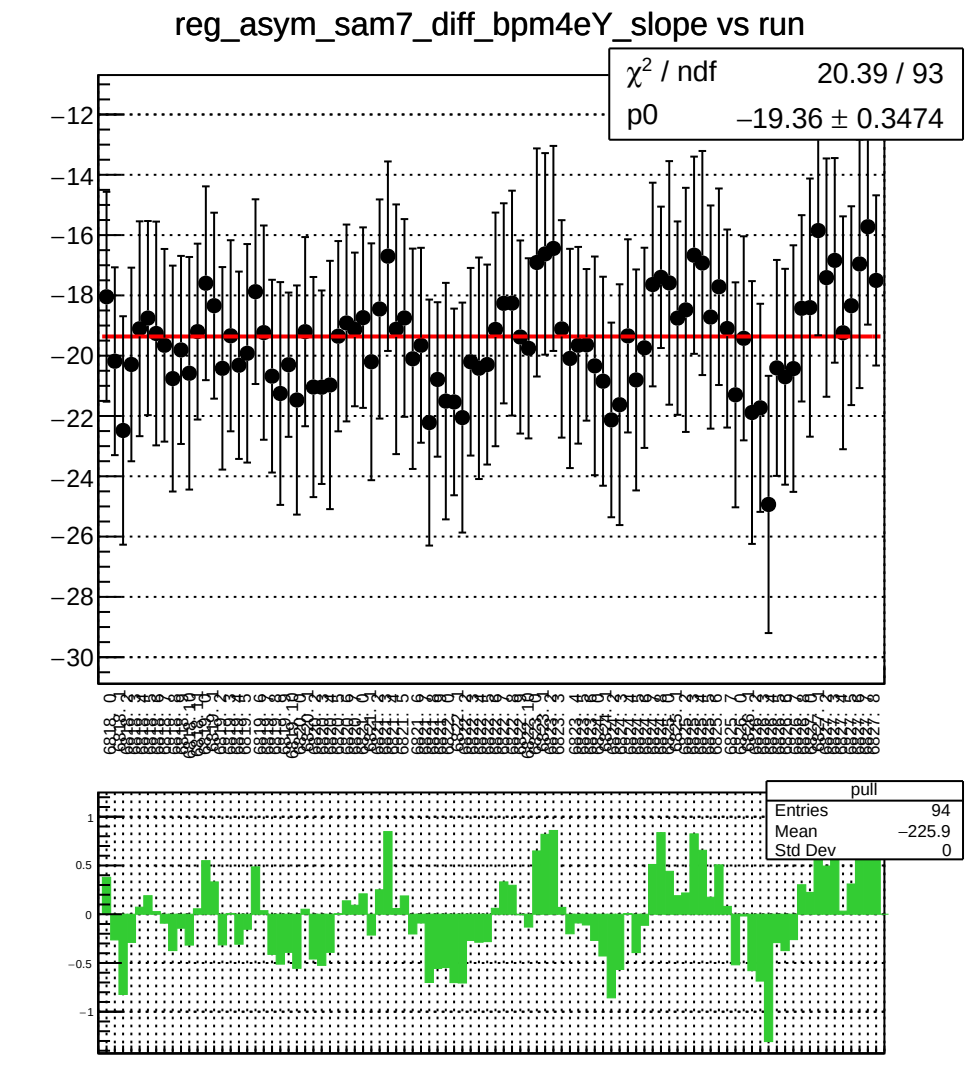

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 20.35 / 93
p0 −0.1267 ± 0.04309
pull
Entries 94
Mean −634.2
Std Dev 0

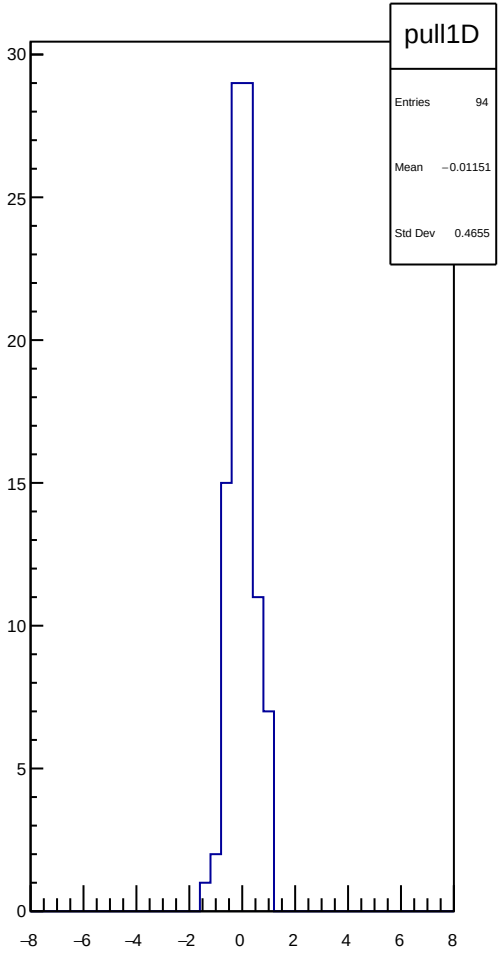

pull1D
Entries 94
Mean −0.01052
Std Dev 0.4651

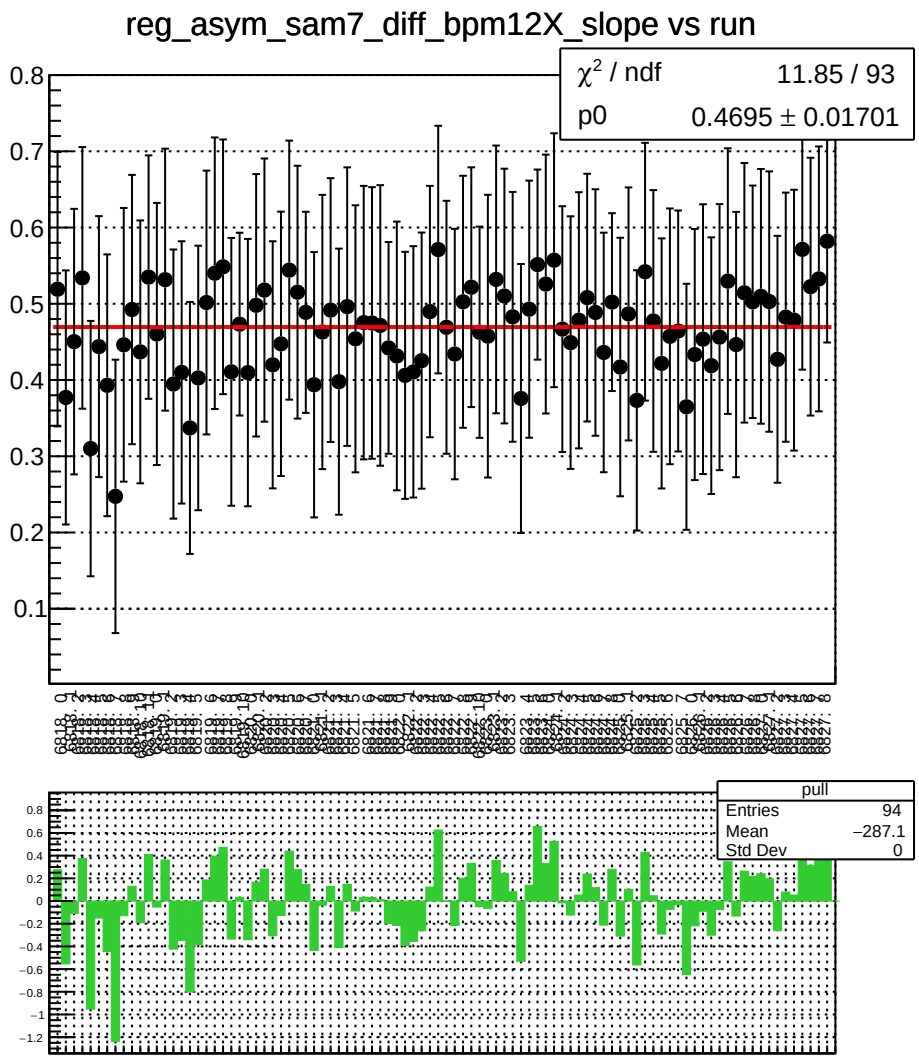

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 15.66 / 93
p0 20.89 ± 0.449
pull
Entries 94
Mean 1409
Std Dev 0
pull1D
Entries 94
Mean −0.001428
Std Dev 0.4082

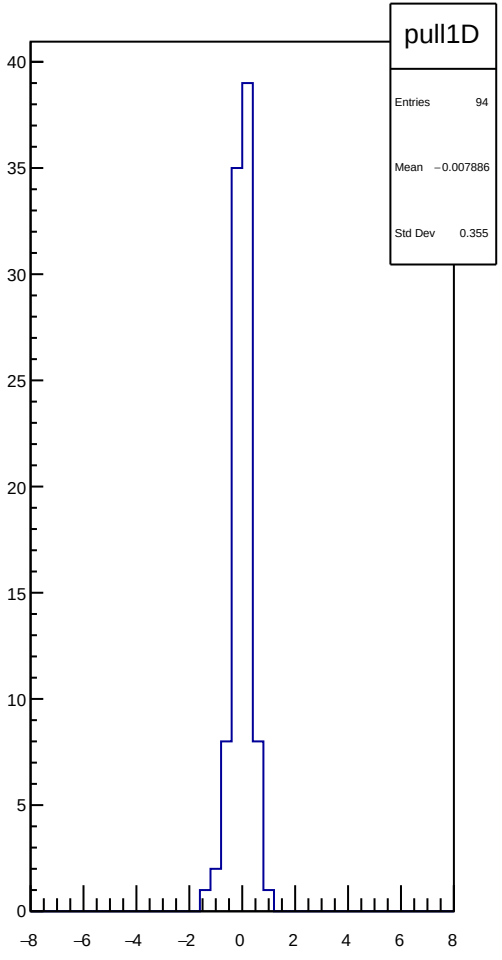

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 20.51 / 93
p0 12.19 ± 0.3
pull
Entries 94
Mean −64.68
Std Dev 0
pull1D
Entries 94
Mean 0.02121
Std Dev 0.4666

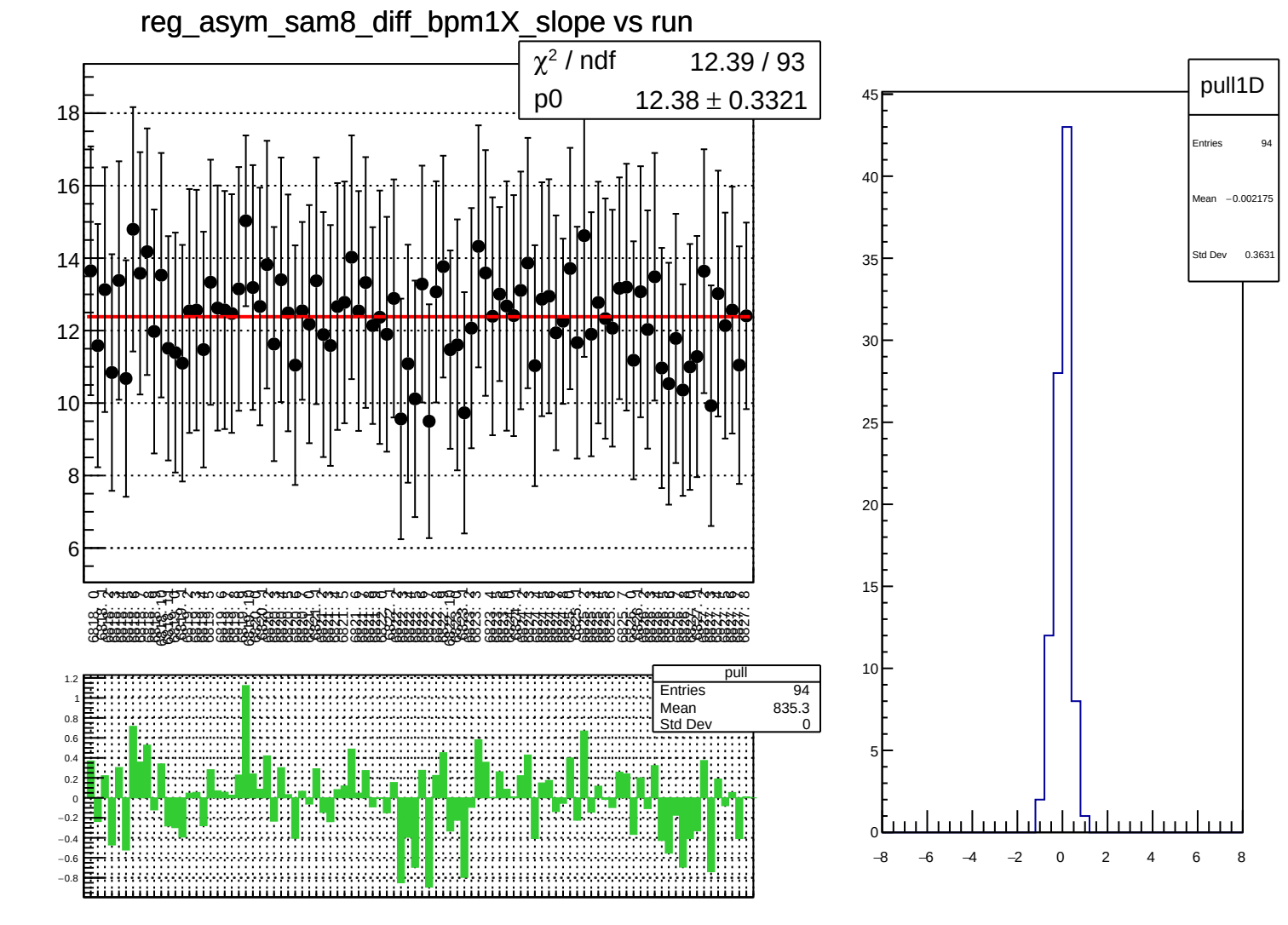

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 17.61 / 93
p0 −61.52 ± 0.4195
pull
Entries 94
Mean −3311
Std Dev 0
pull1D
Entries 94
Mean −0.000669
Std Dev 0.4328

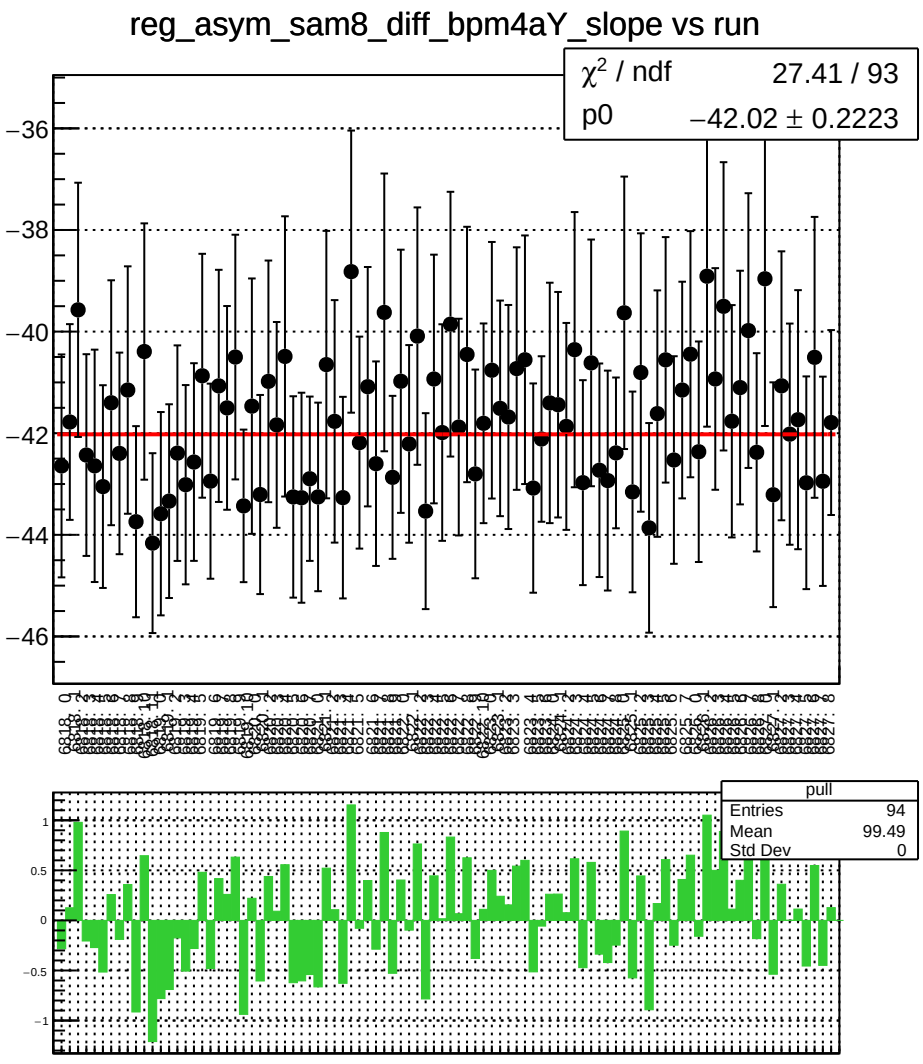

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 20.39 / 93
p0 −19.36 ± 0.3474
pull
Entries 94
Mean −225.9
Std Dev 0

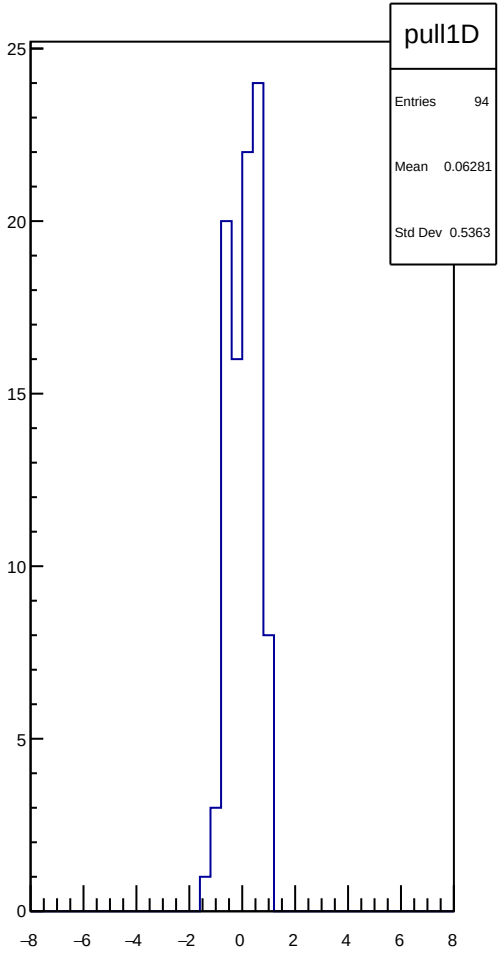

pull1D
Entries 94
Mean −0.01151
Std Dev 0.4655

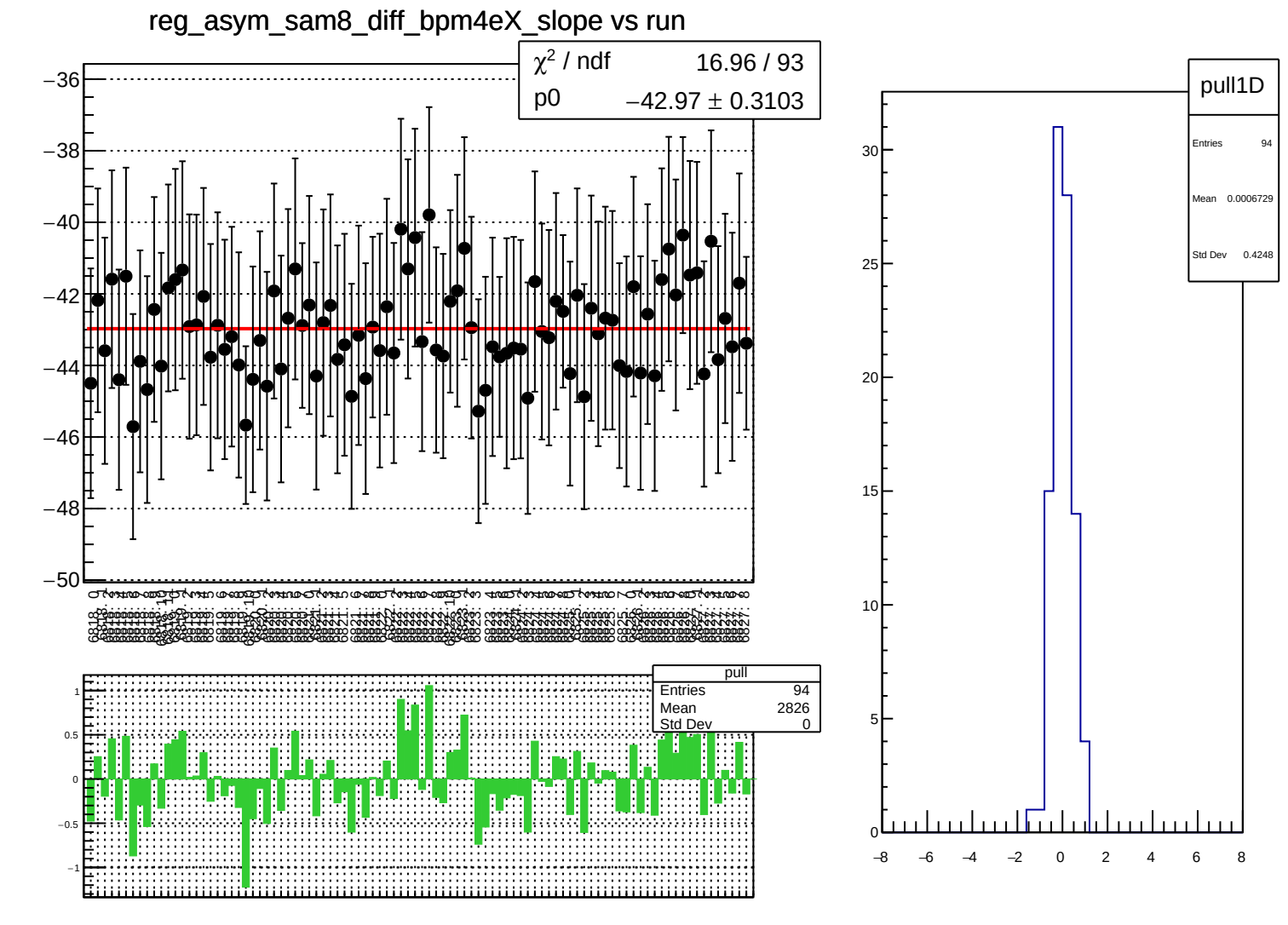

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 11.85 / 93
p0 0.4695 ± 0.01701
pull
Entries 94
Mean −287.1
Std Dev 0

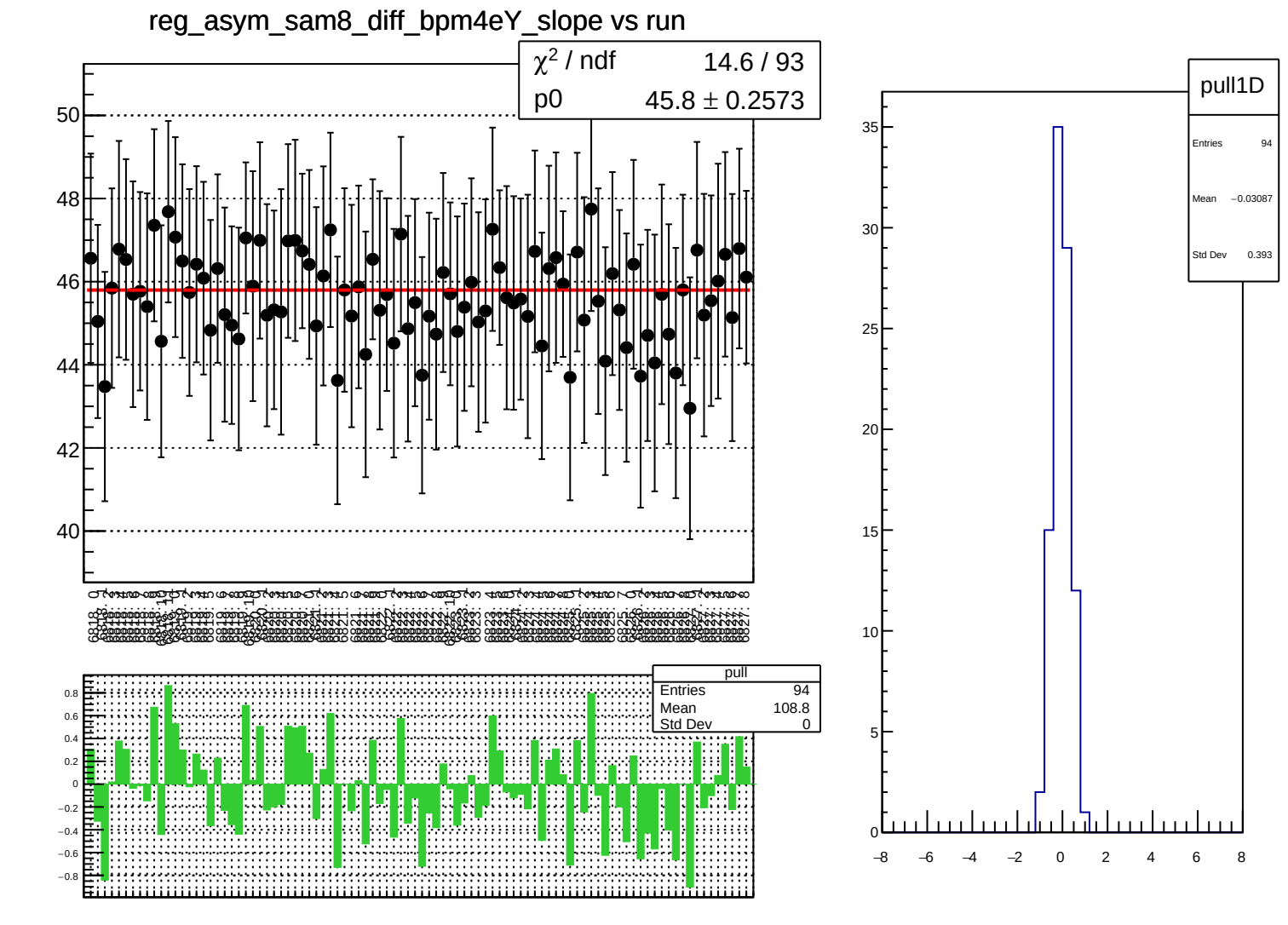

pull1D
Entries 94
Mean −0.007886
Std Dev 0.355

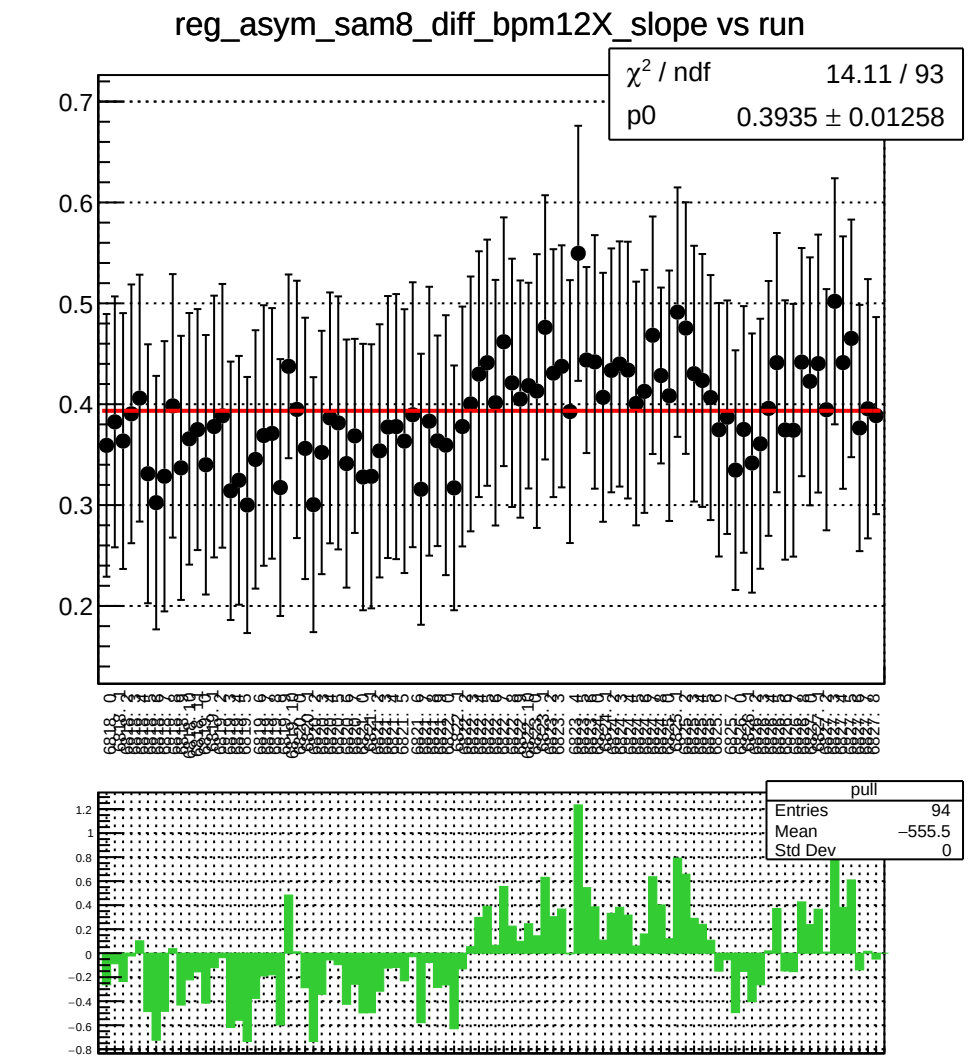

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 12.39 / 93
p0 12.38 ± 0.3321
pull
Entries 94
Mean 835.3
Std Dev 0
pull1D
Entries 94
Mean −0.002175
Std Dev 0.3631

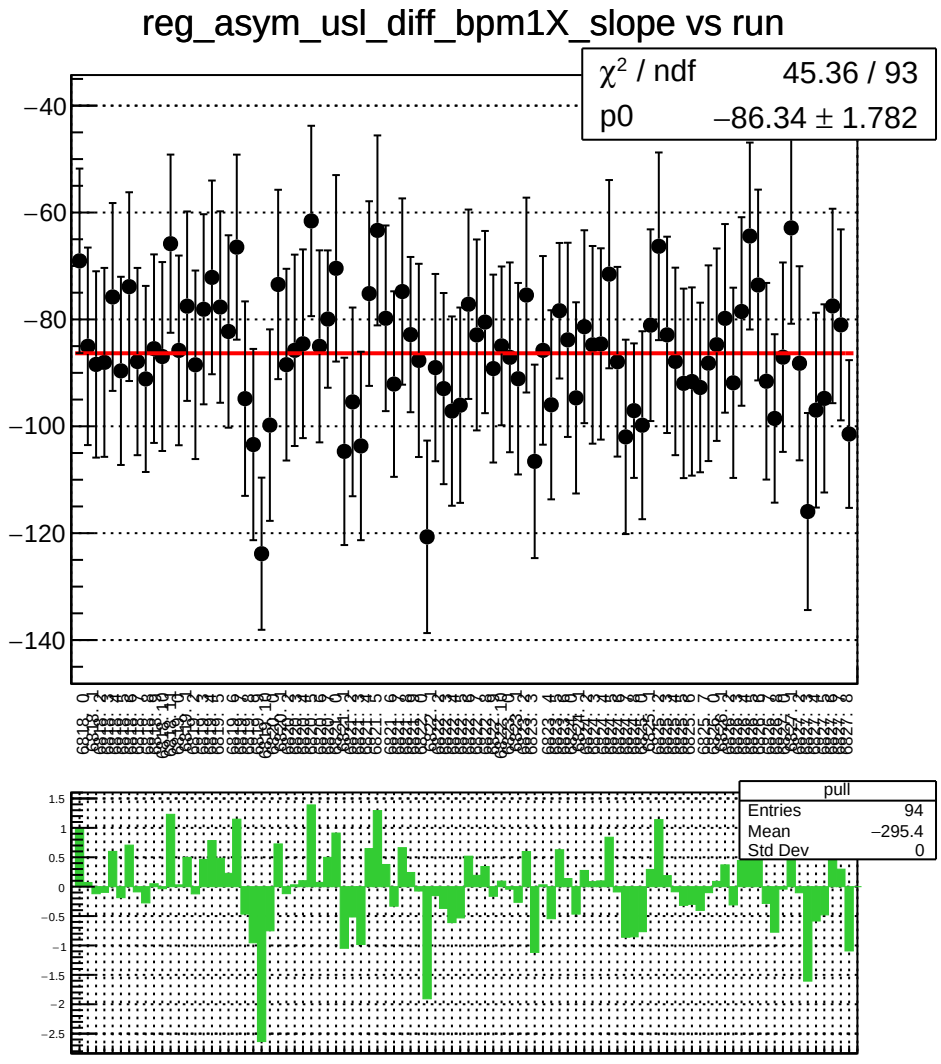

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 27.41 / 93
p0 −42.02 ± 0.2223
pull
Entries 94
Mean 99.49
Std Dev 0

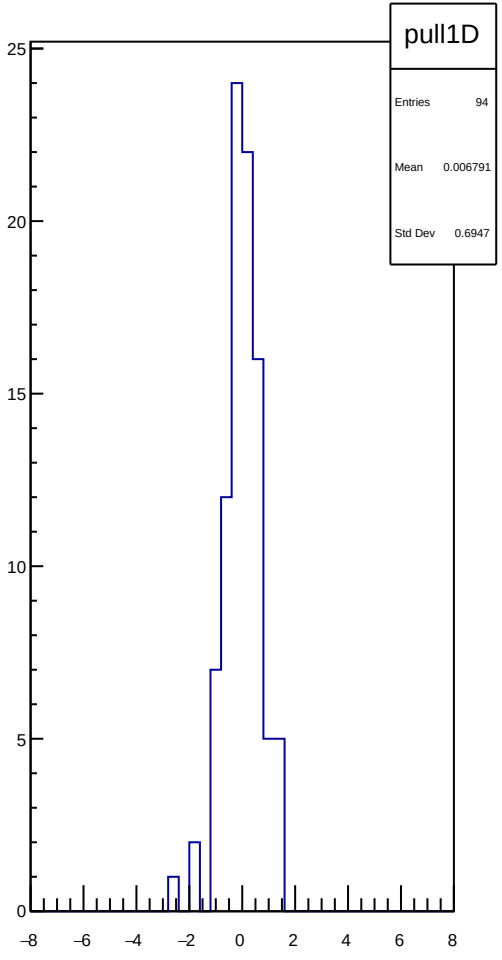

pull1D
Entries 94
Mean 0.06281
Std Dev 0.5363

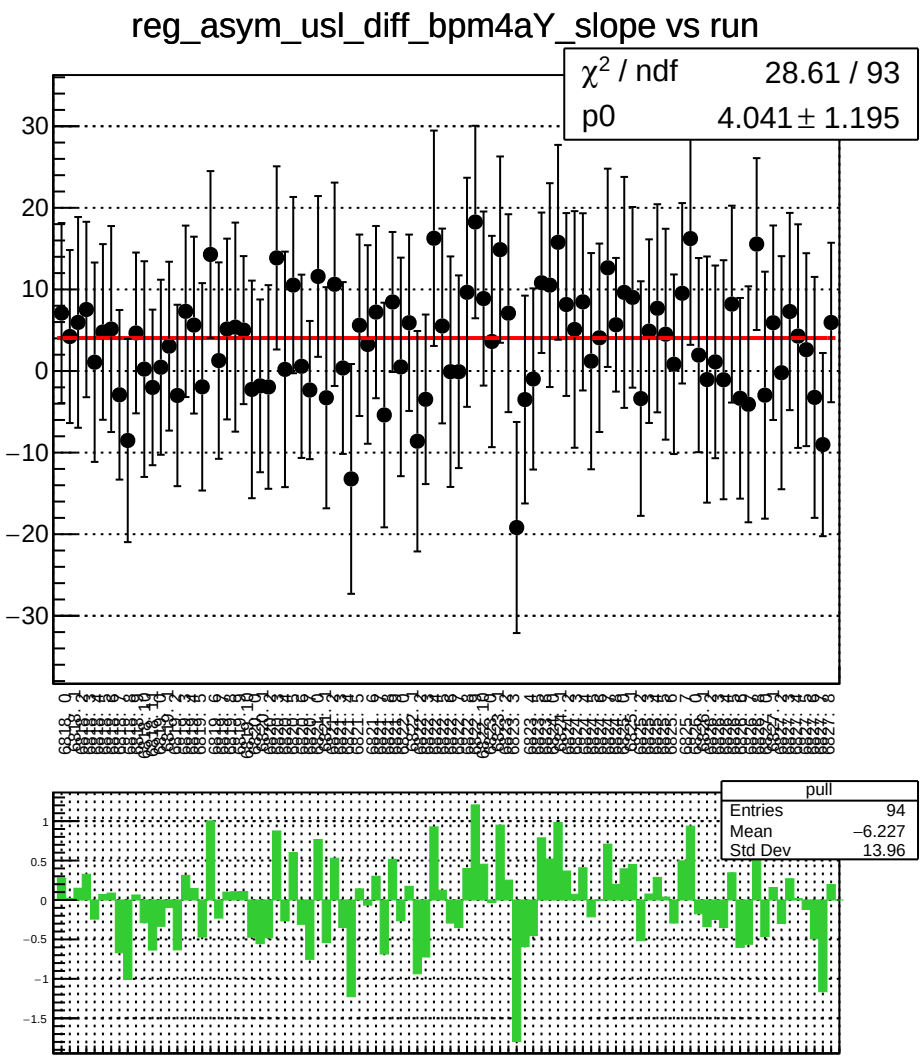

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 16.96 / 93
p0 −42.97 ± 0.3103
pull
Entries 94
Mean 2826
Std Dev 0
pull1D
Entries 94
Mean 0.0006729
Std Dev 0.4248

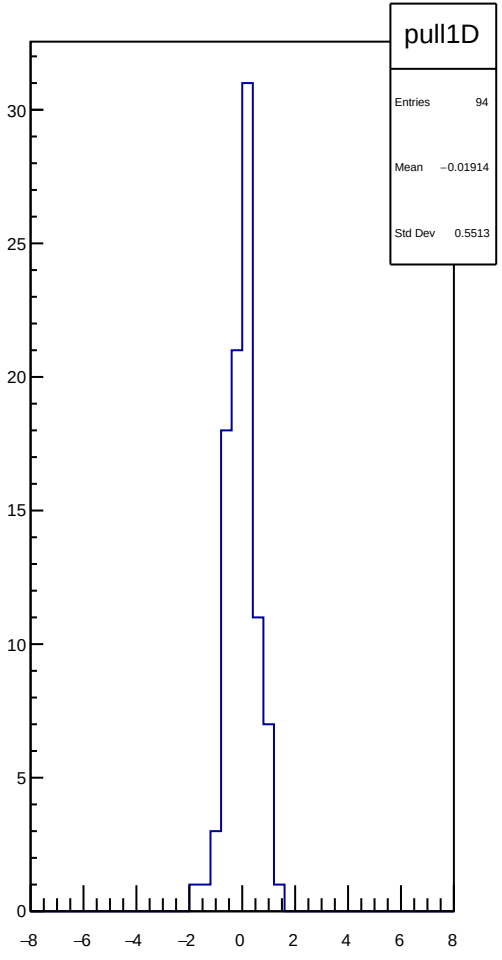

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 14.6 / 93
p0 45.8 ± 0.2573
50
48
46
44
42
40
pull
Entries 94
Mean 108.8
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.03087
Std Dev 0.393
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

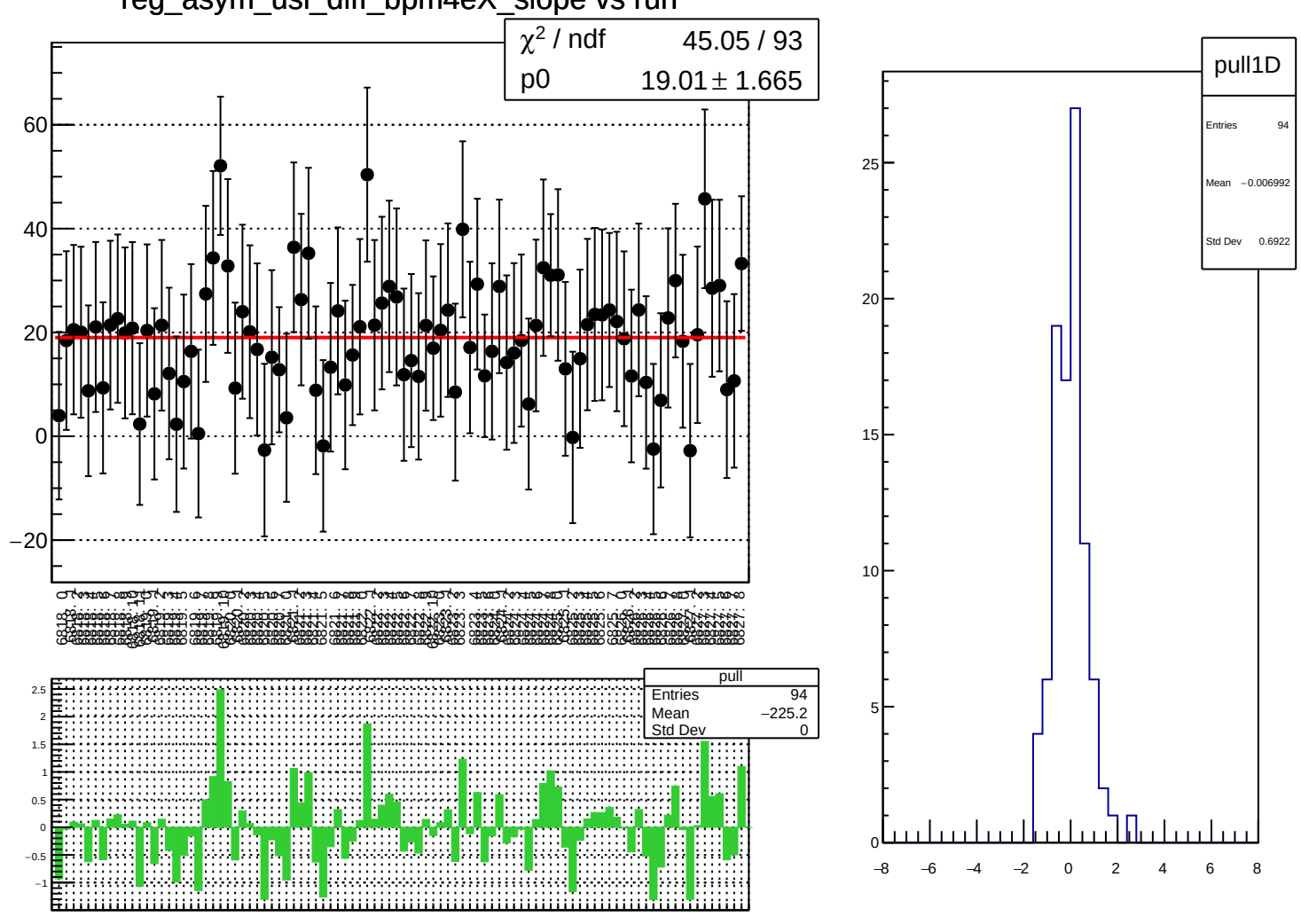

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 14.11 / 93
p0 0.3935 ± 0.01258
pull
Entries 94
Mean −555.5
Std Dev 0
pull1D
Entries 94
Mean −0.008859
Std Dev 0.3874

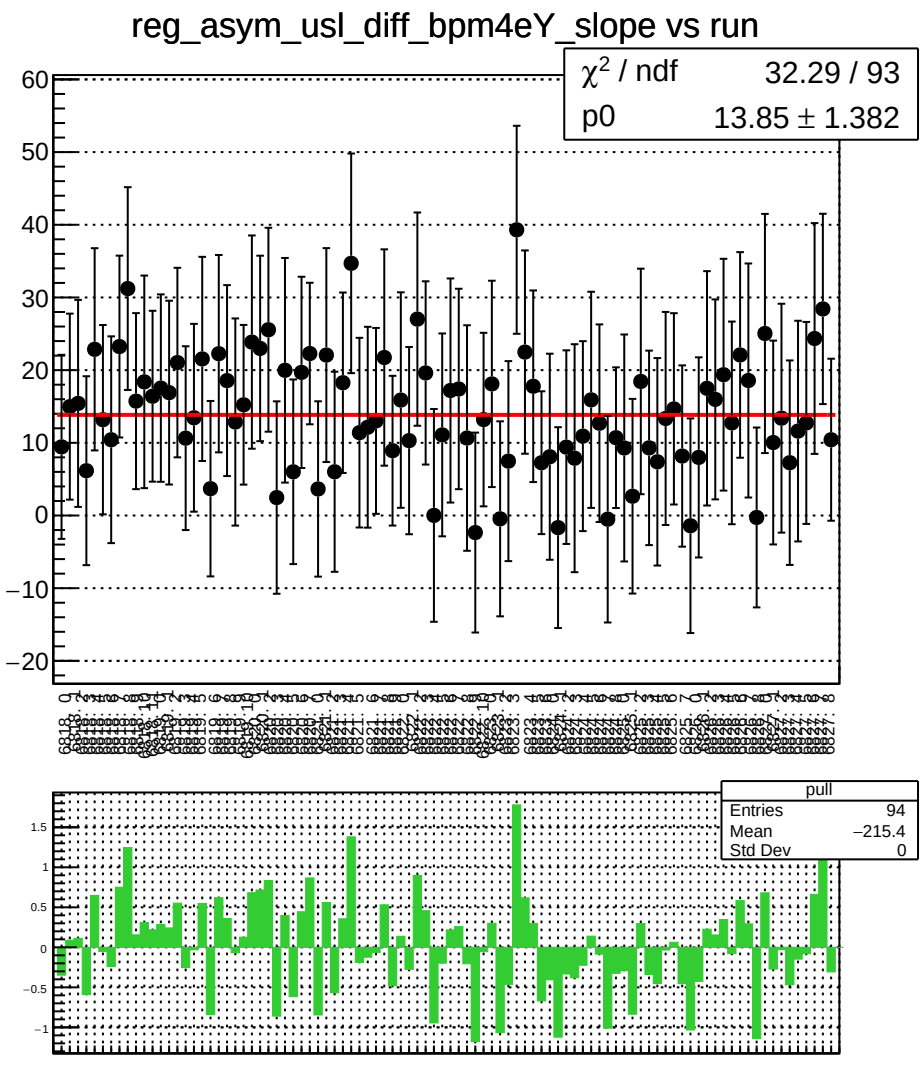

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 45.36 / 93
p0 −86.34 ± 1.782
pull
Entries 94
Mean −295.4
Std Dev 0

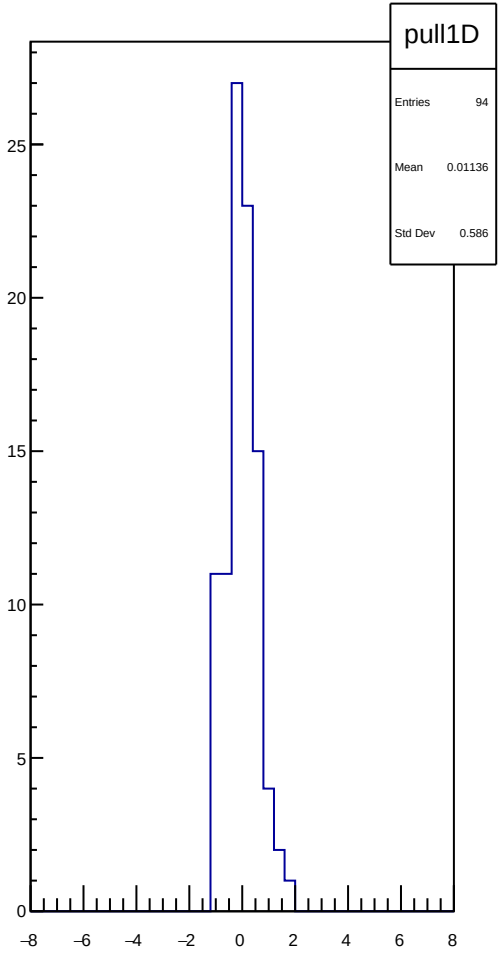

pull1D
Entries 94
Mean 0.006791
Std Dev 0.6947

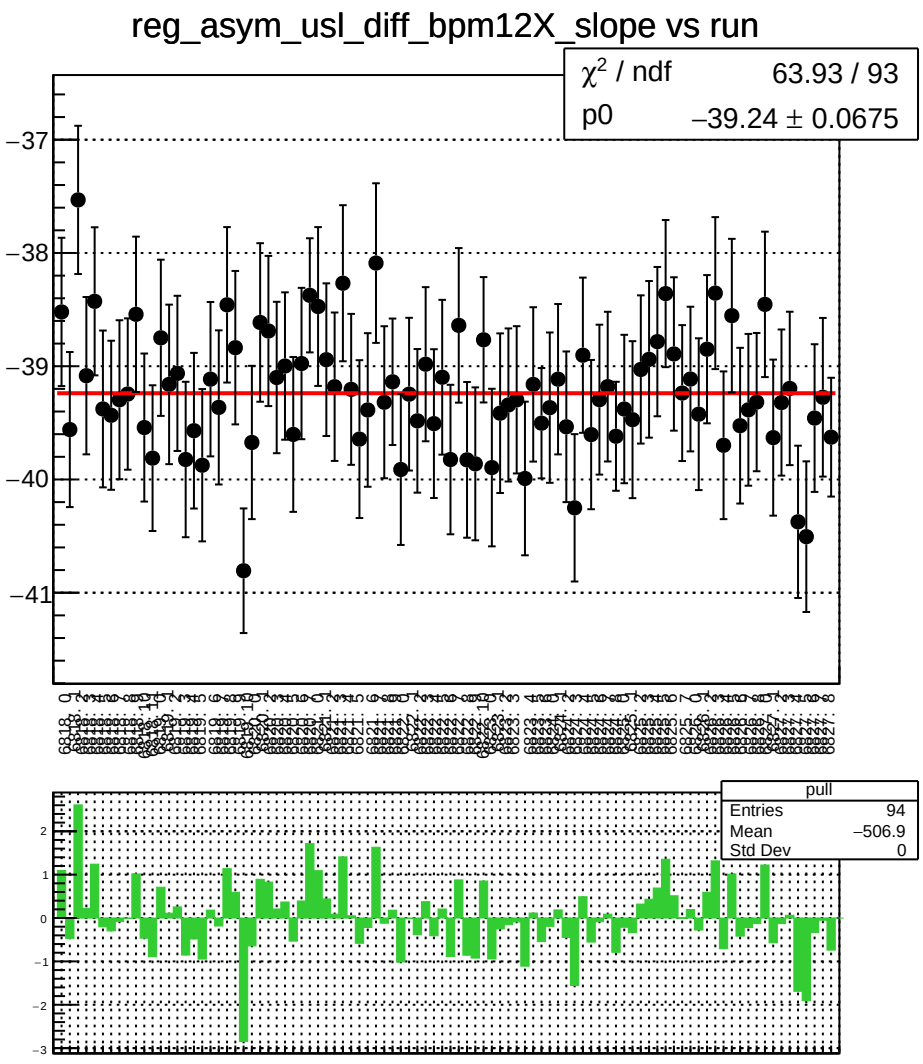

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 28.61 / 93
p0 4.041 ± 1.195
pull
Entries 94
Mean −6.227
Std Dev 13.96

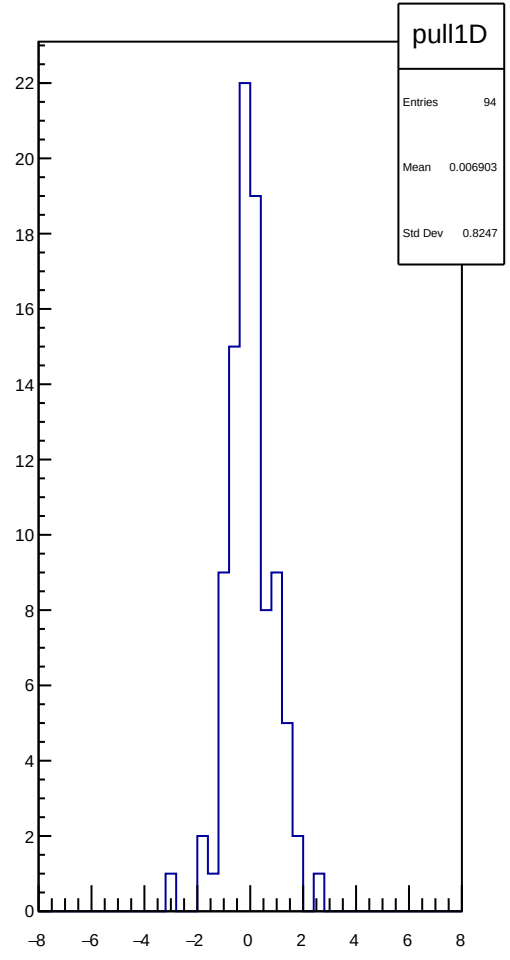

pull1D
Entries 94
Mean −0.01914
Std Dev 0.5513

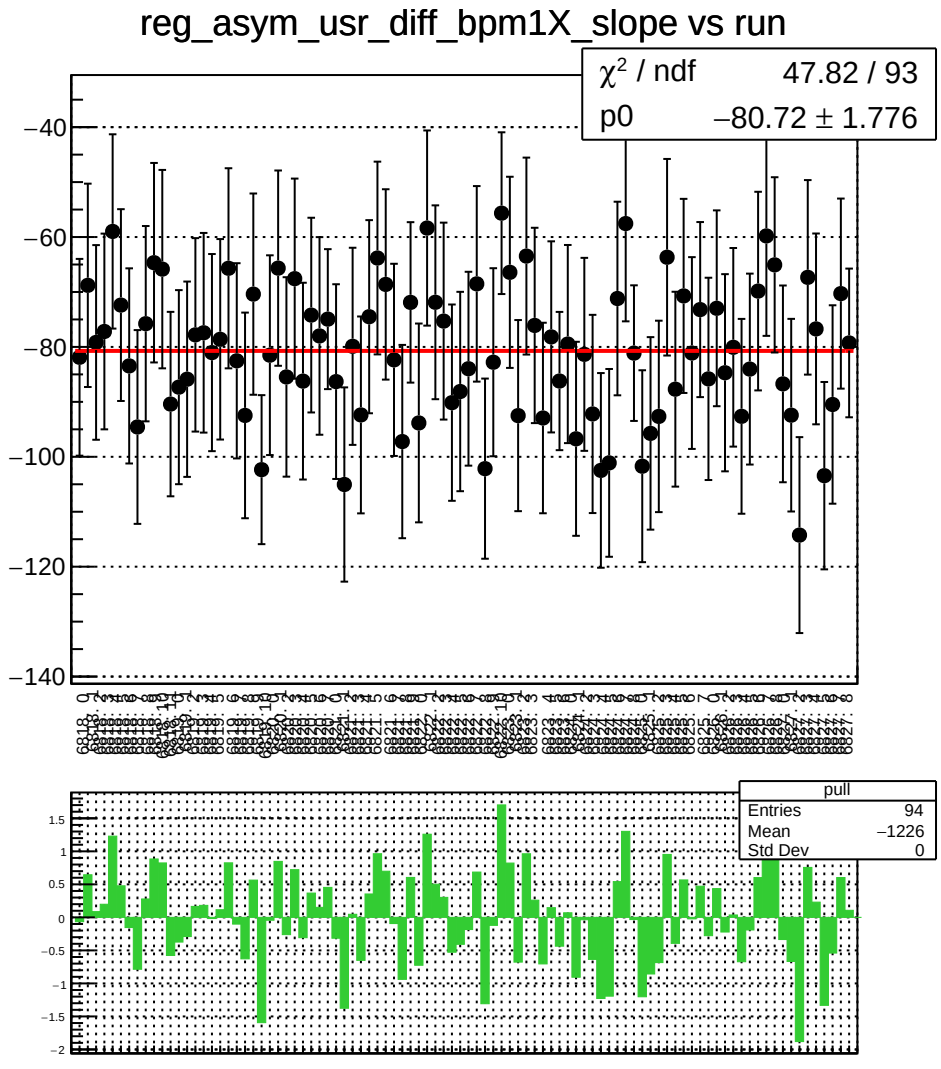

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 45.05 / 93
p0 19.01 ± 1.665
pull
Entries 94
Mean −225.2
Std Dev 0
pull1D
Entries 94
Mean −0.006992
Std Dev 0.6922

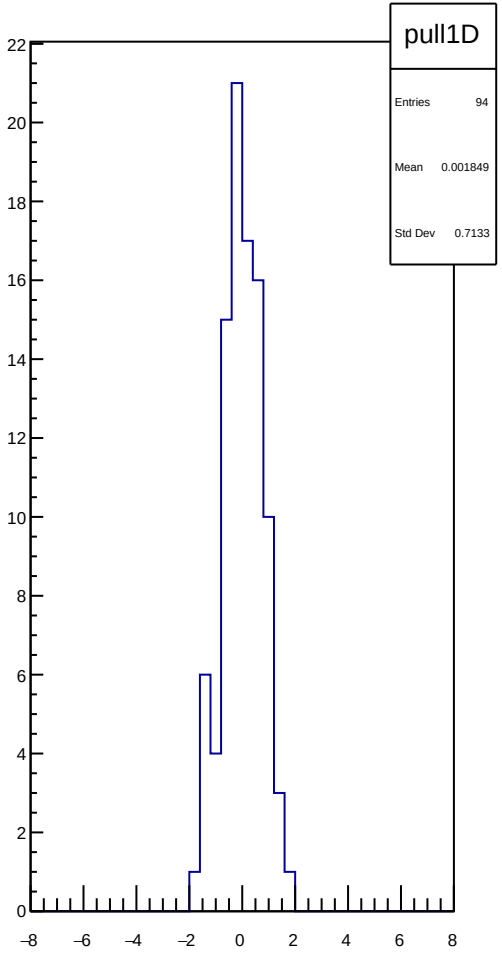

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.29 / 93
p0 13.85 ± 1.382
pull
Entries 94
Mean −215.4
Std Dev 0

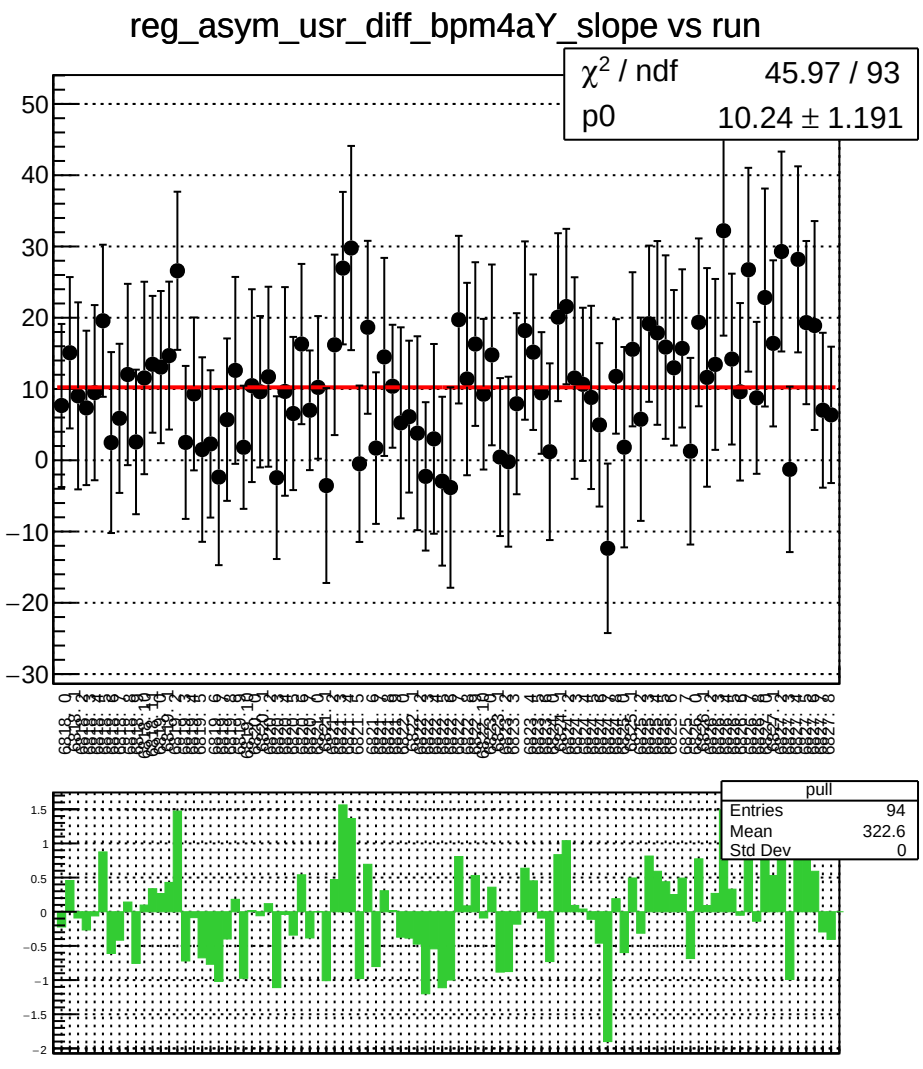

pull1D
Entries 94
Mean 0.01136
Std Dev 0.586

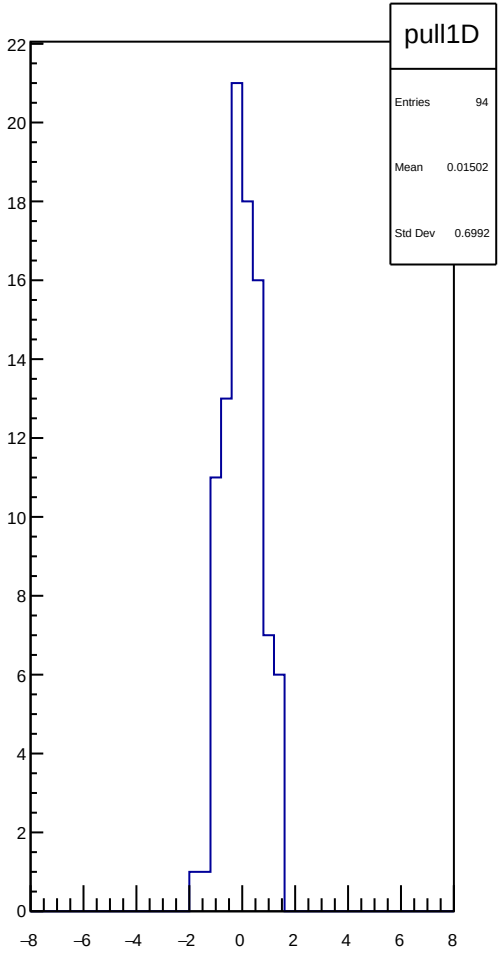

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 63.93 / 93
p0 −39.24 ± 0.0675
pull
Entries 94
Mean −506.9
Std Dev 0

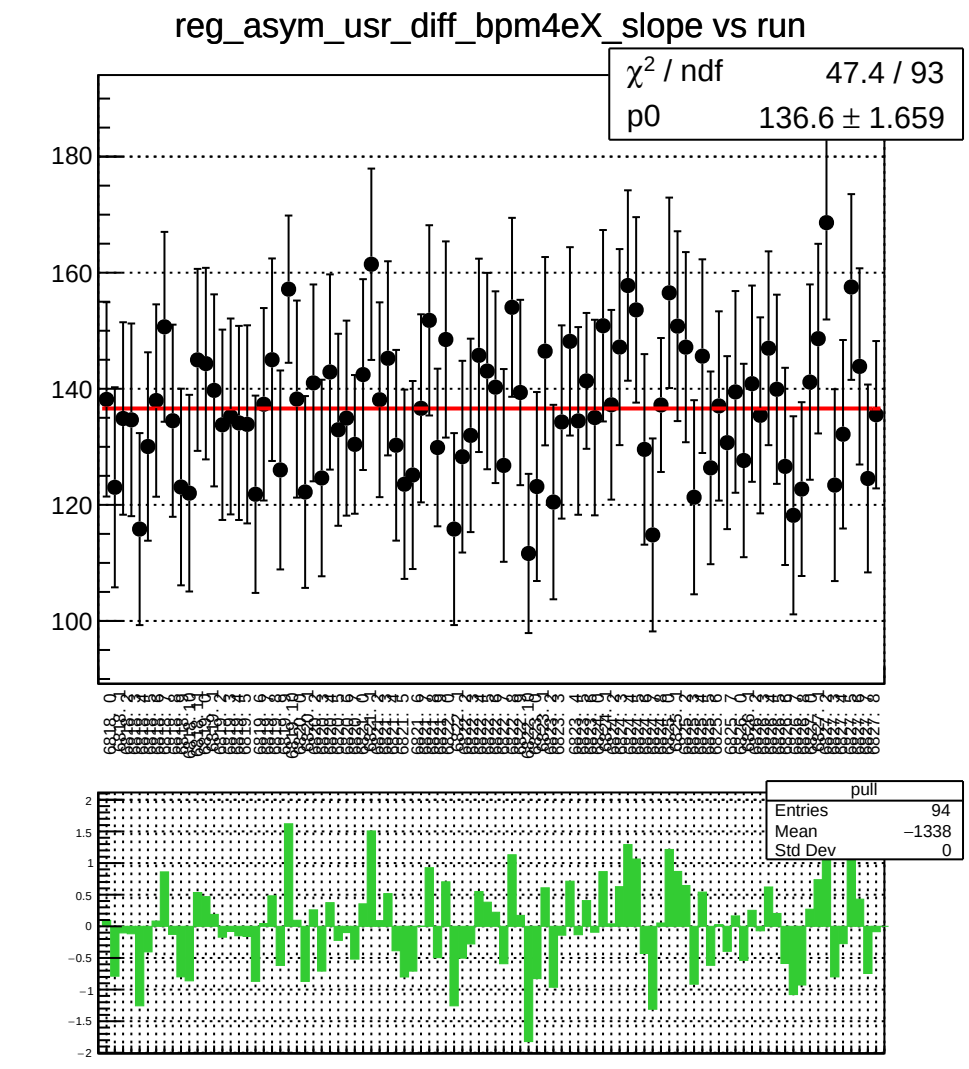

pull1D
Entries 94
Mean 0.006903
Std Dev 0.8247

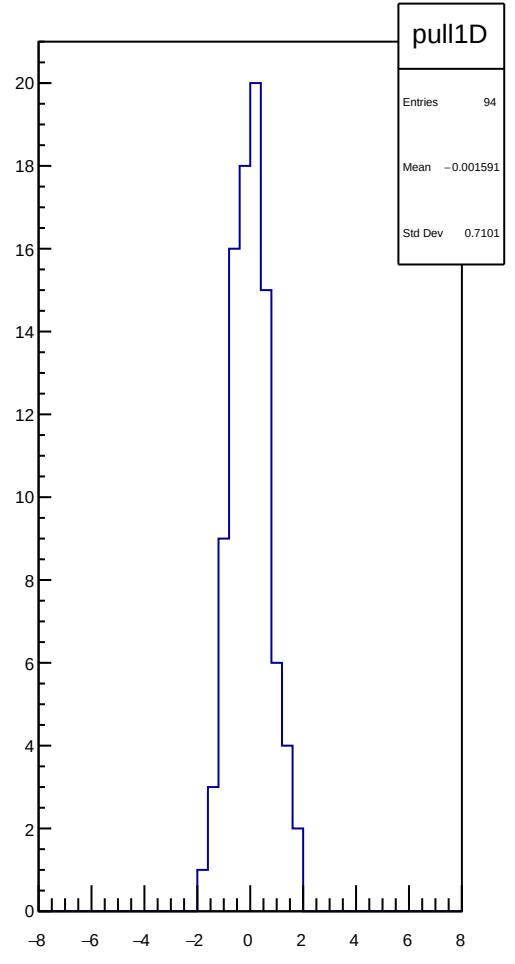

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 47.82 / 93
p0 −80.72 ± 1.776
pull
Entries 94
Mean −1226
Std Dev 0

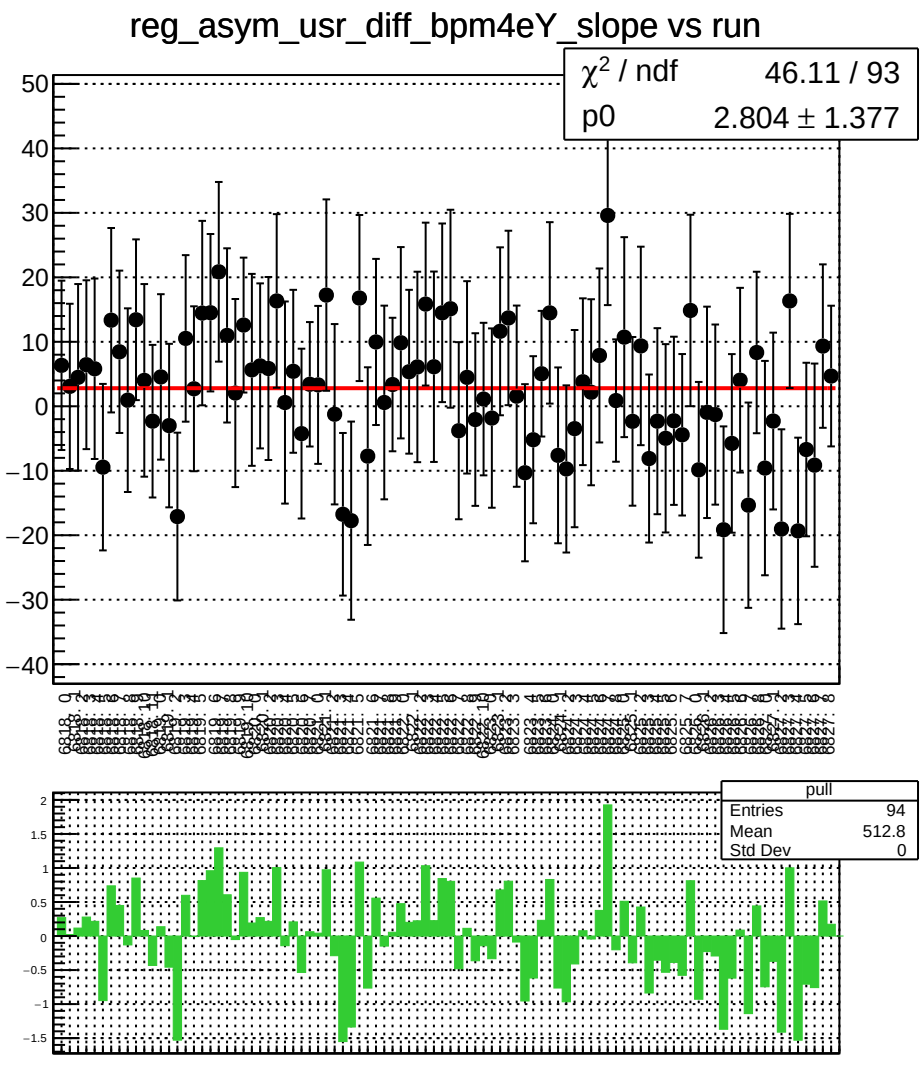

pull1D
Entries 94
Mean 0.001849
Std Dev 0.7133

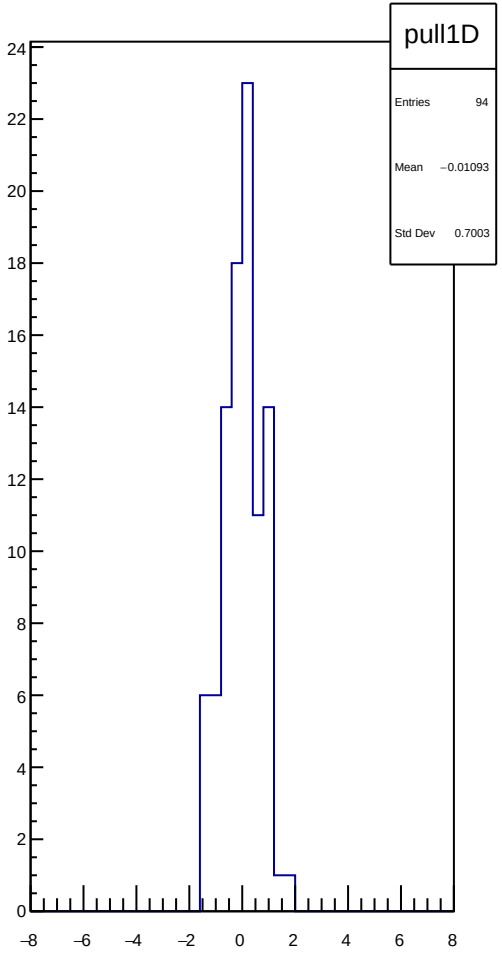

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 45.97 / 93
p0 10.24 ± 1.191
pull
Entries 94
Mean 322.6
Std Dev 0

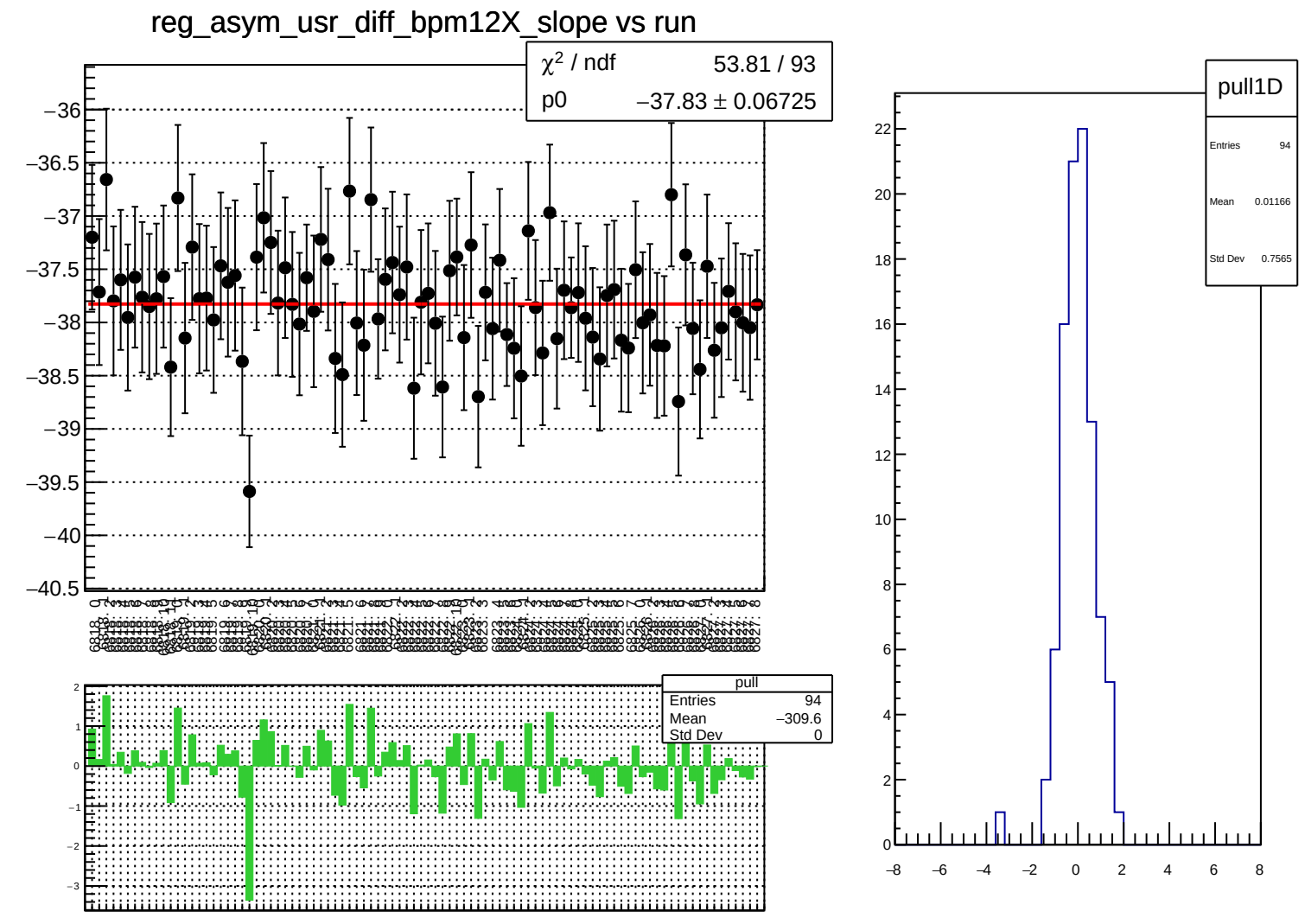

pull1D
Entries 94
Mean 0.01502
Std Dev 0.6992

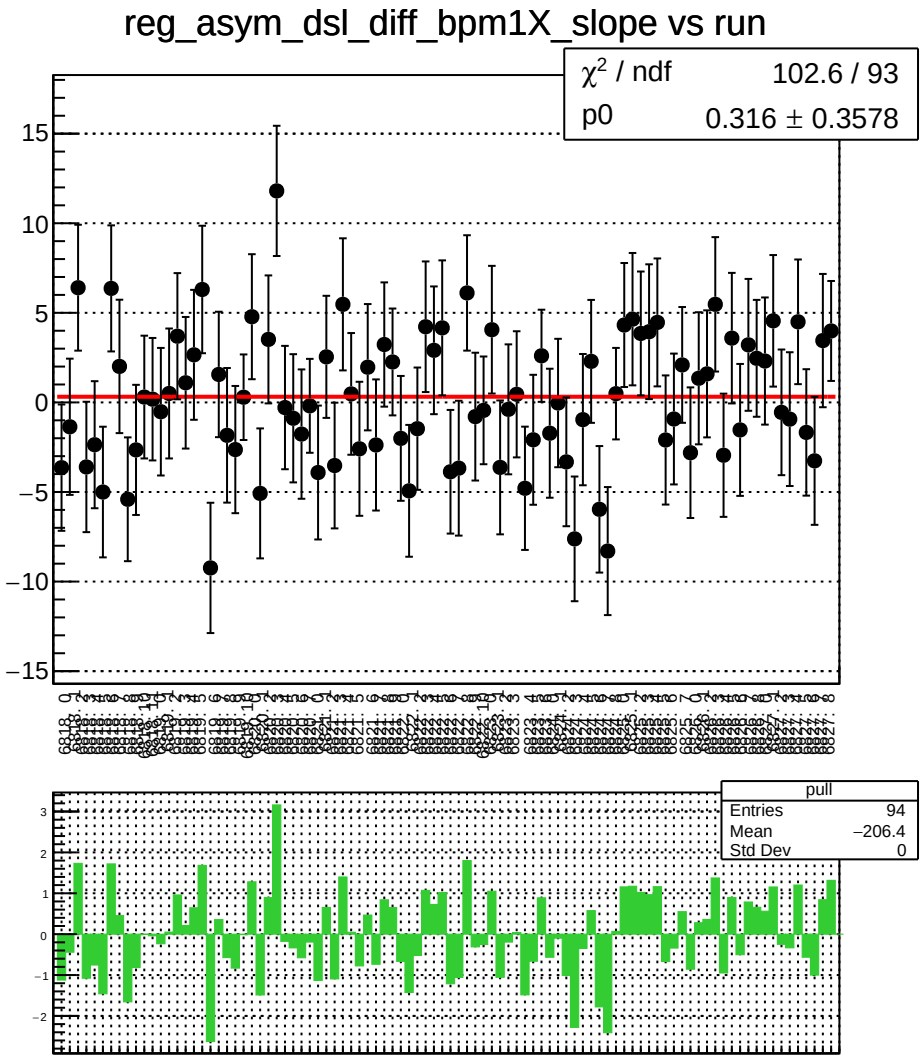

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 47.4 / 93
p0 136.6 ± 1.659
180
160
140
120
100
pull
Entries 94
Mean −1338
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

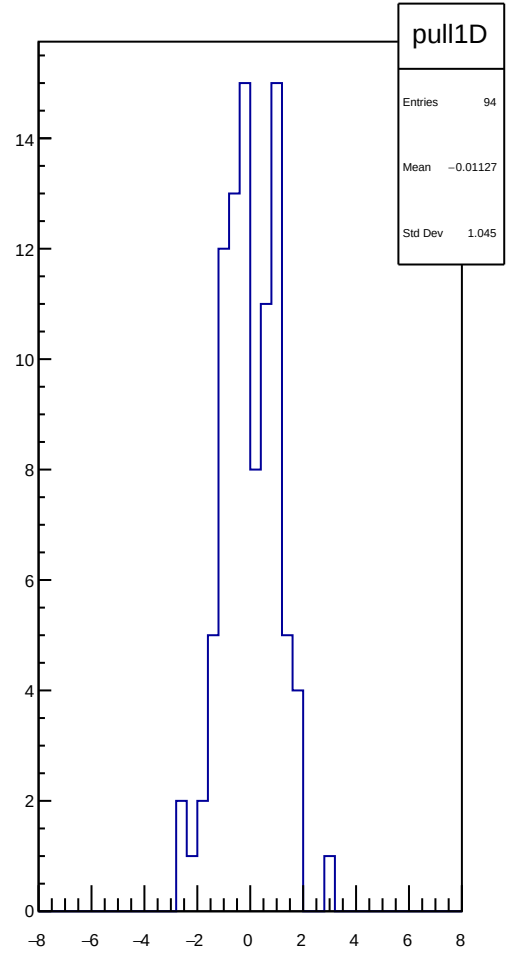

pull1D
Entries 94
Mean −0.001591
Std Dev 0.7101
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

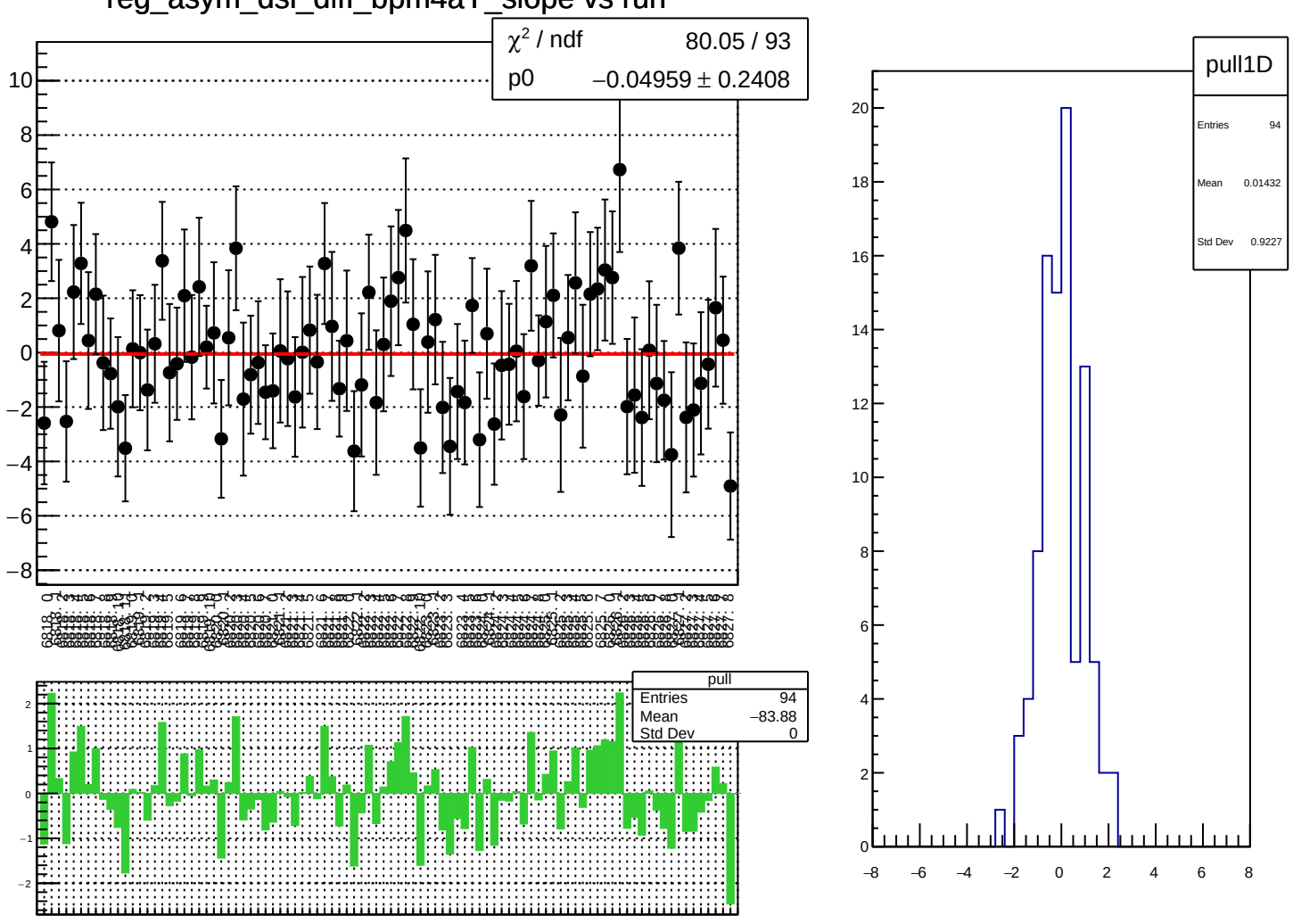

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 46.11 / 93
p0 2.804 ± 1.377
pull
Entries 94
Mean 512.8
Std Dev 0

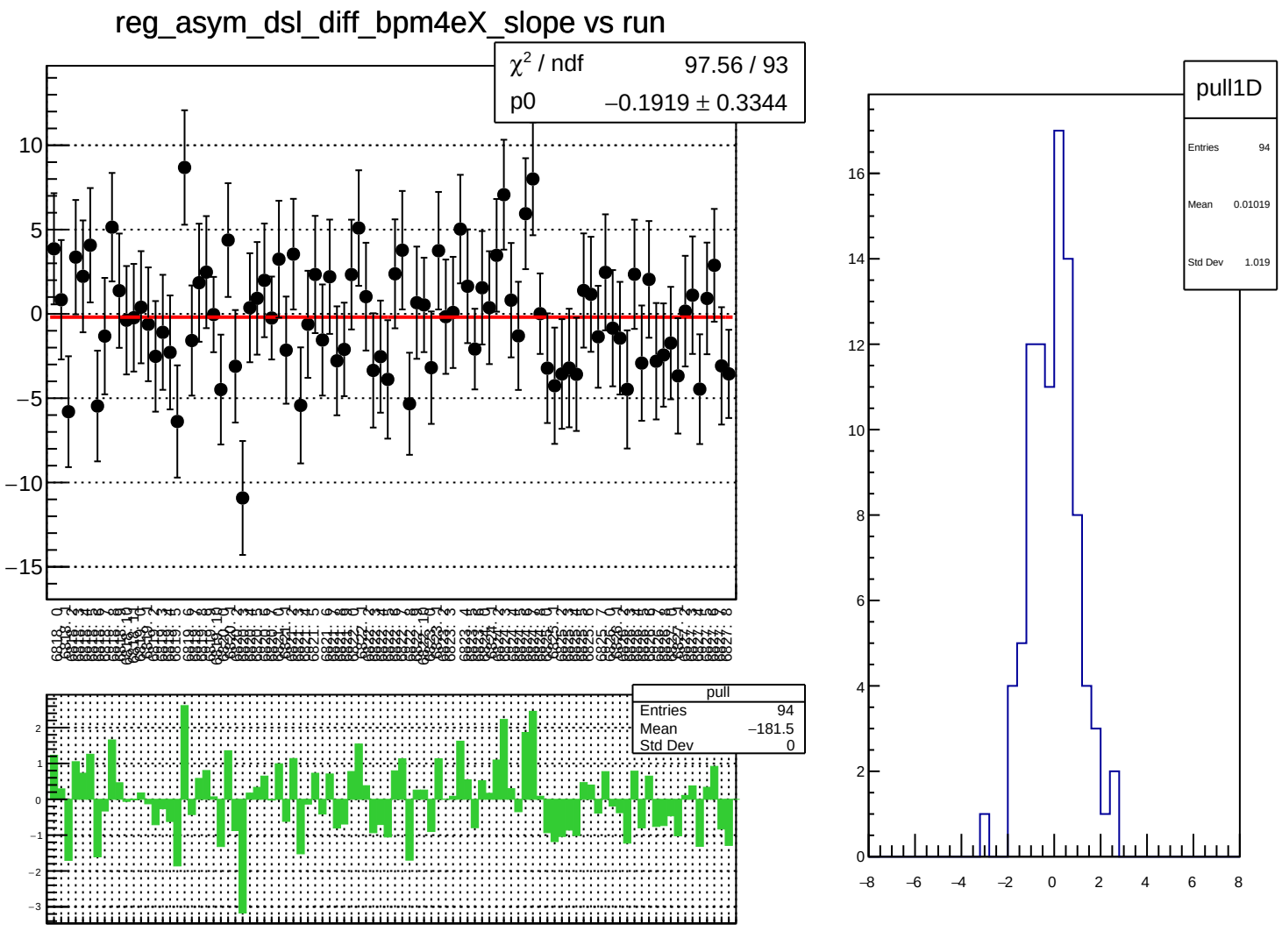

pull1D
Entries 94
Mean −0.01093
Std Dev 0.7003

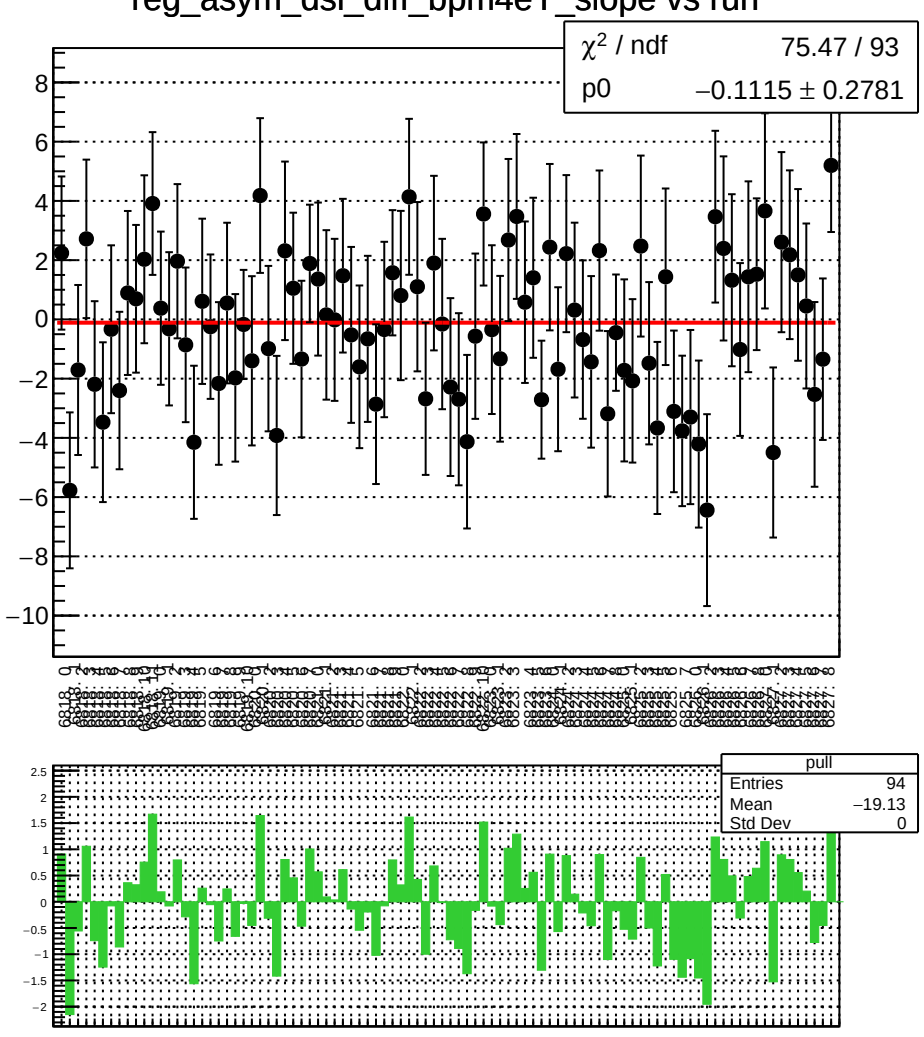

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 53.81 / 93
p0 −37.83 ± 0.06725
−36
−36.5
−37
−37.5
−38
−38.5
−39
−39.5
−40
−40.5
pull
Entries 94
Mean −309.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 94
Mean 0.01166
Std Dev 0.7565
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

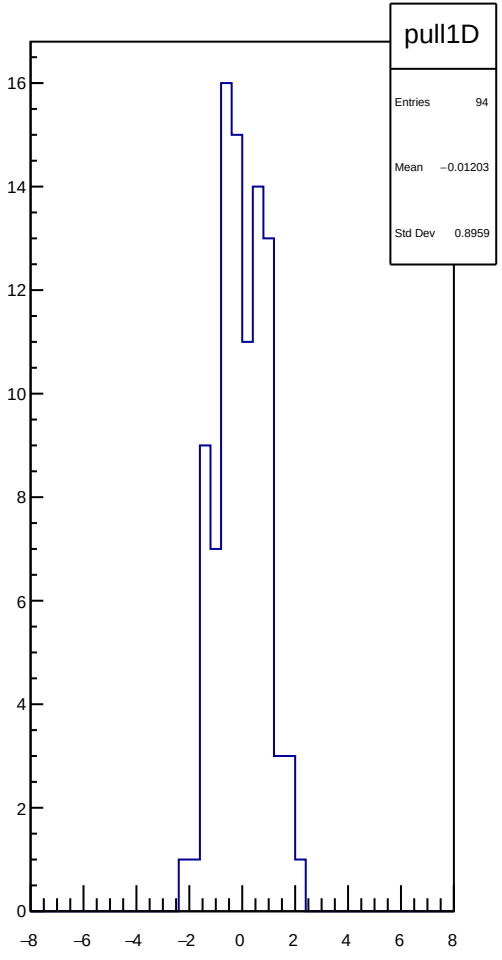

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 102.6 / 93
p0 0.316 ± 0.3578
pull
Entries 94
Mean −206.4
Std Dev 0

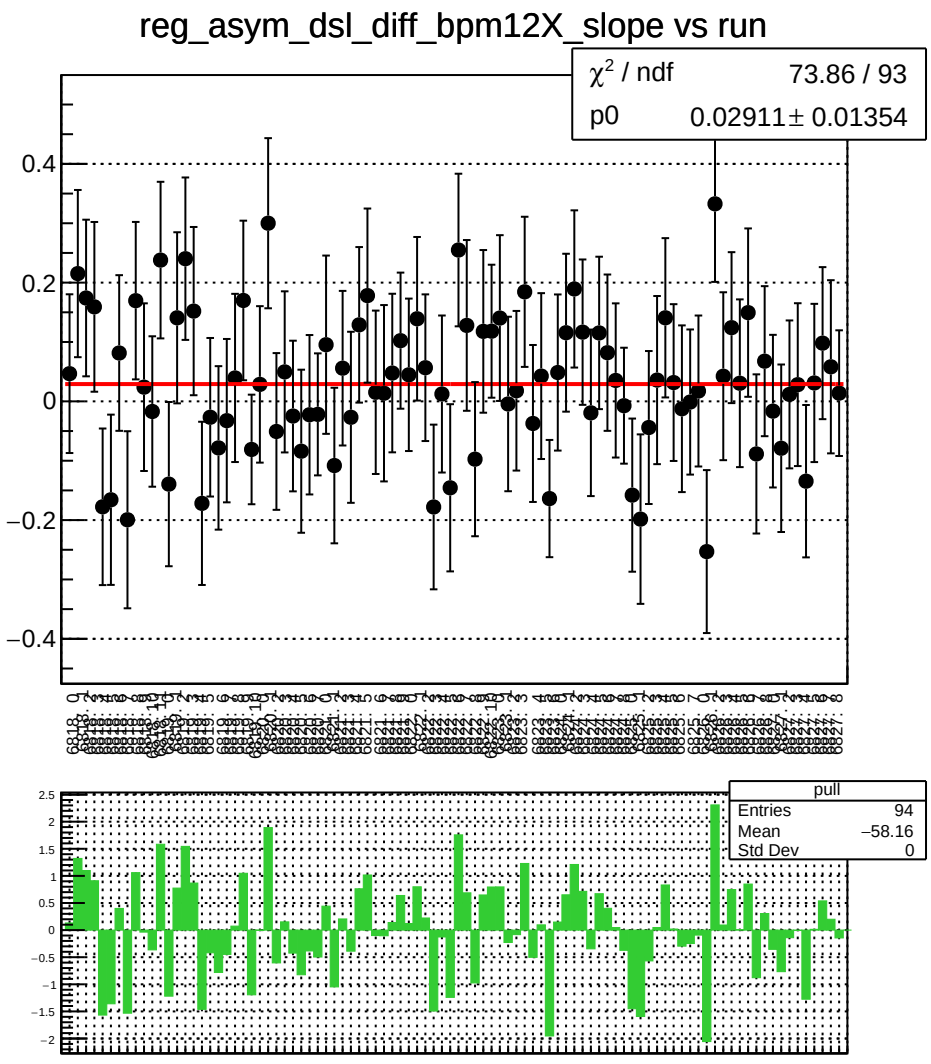

pull1D
Entries 94
Mean −0.01127
Std Dev 1.045

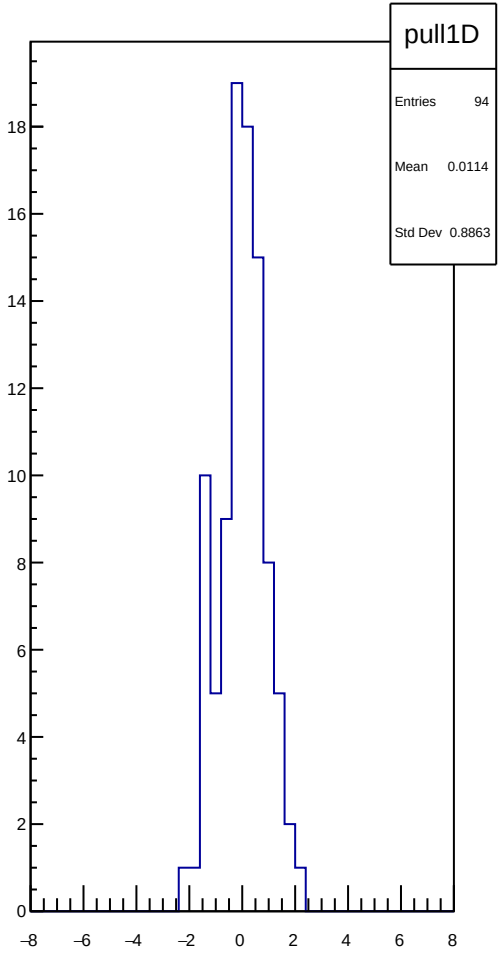

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 80.05 / 93
p0 −0.04959 ± 0.2408
pull
Entries 94
Mean −83.88
Std Dev 0
pull1D
Entries 94
Mean 0.01432
Std Dev 0.9227

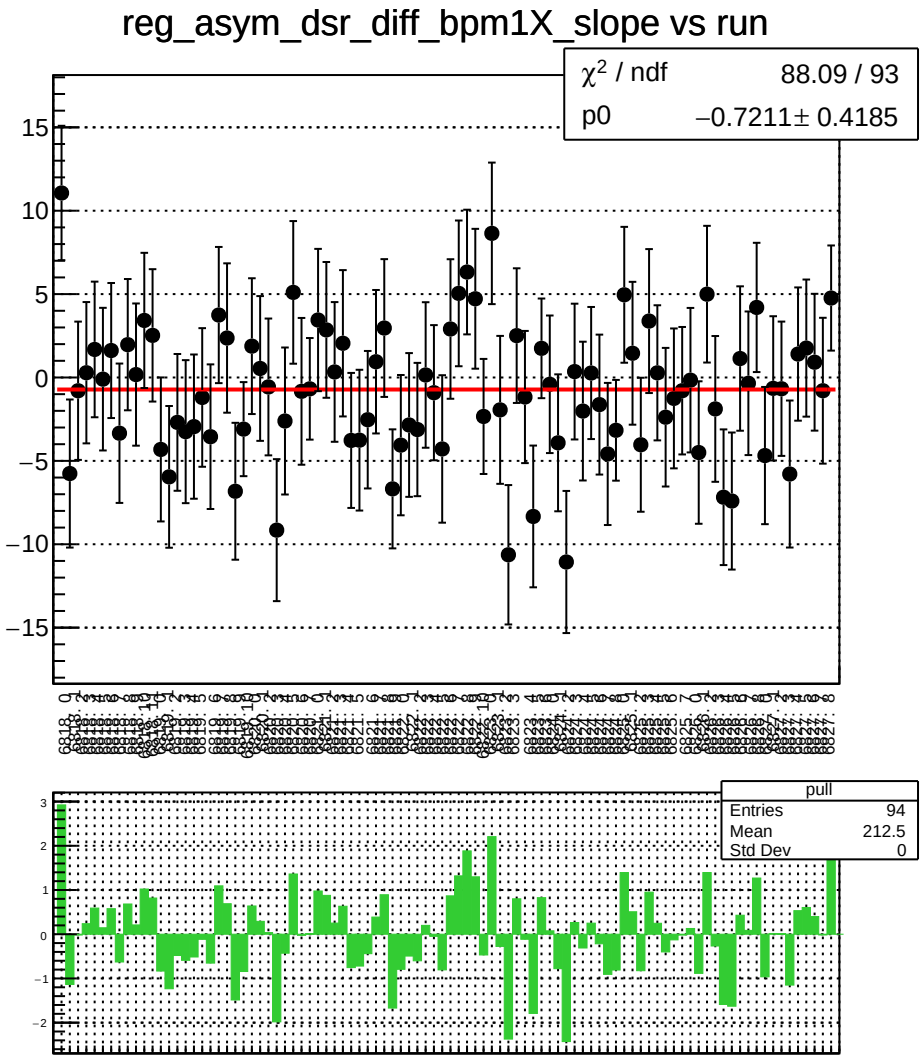

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 97.56 / 93
p0 −0.1919 ± 0.3344
pull
Entries 94
Mean −181.5
Std Dev 0
pull1D
Entries 94
Mean 0.01019
Std Dev 1.019

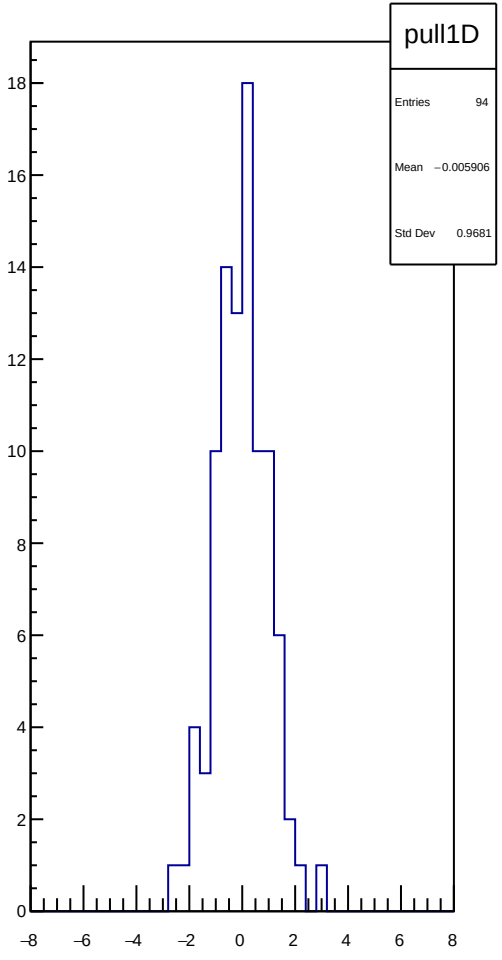

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 75.47 / 93
p0 −0.1115 ± 0.2781
pull
Entries 94
Mean −19.13
Std Dev 0

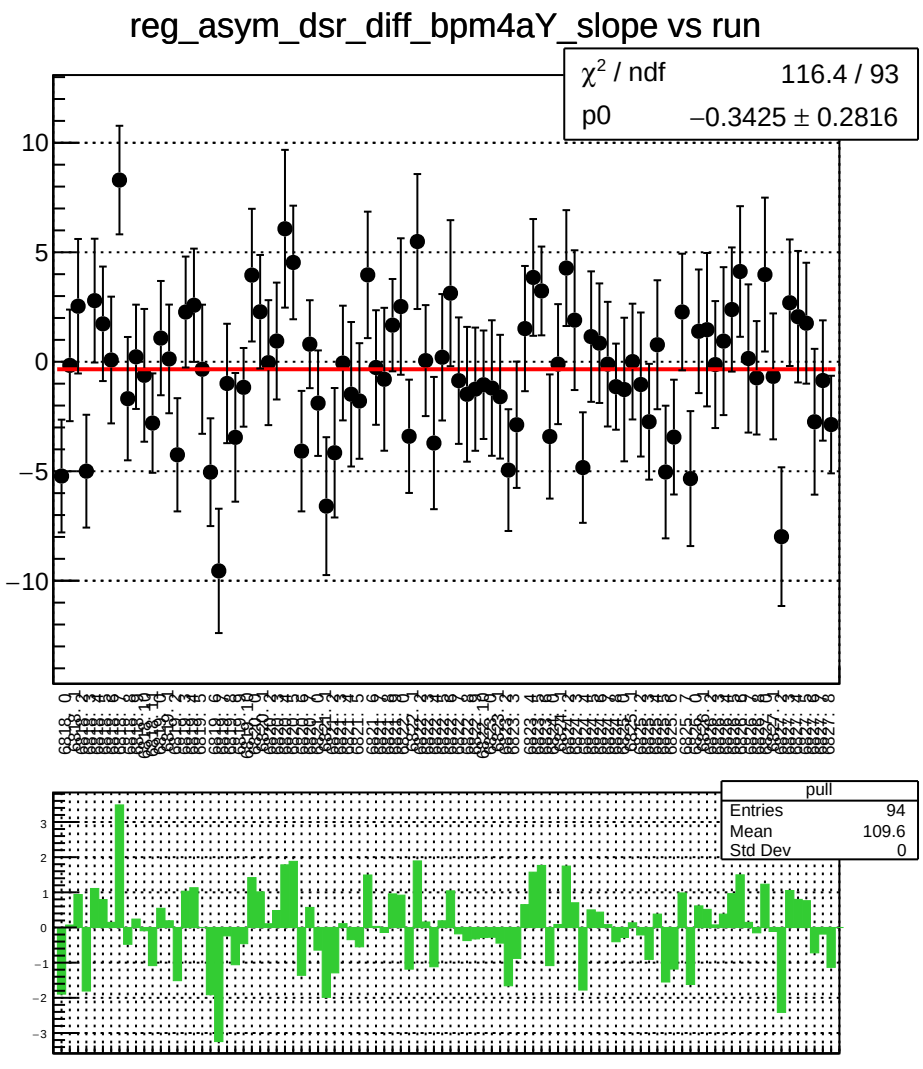

pull1D
Entries 94
Mean −0.01203
Std Dev 0.8959

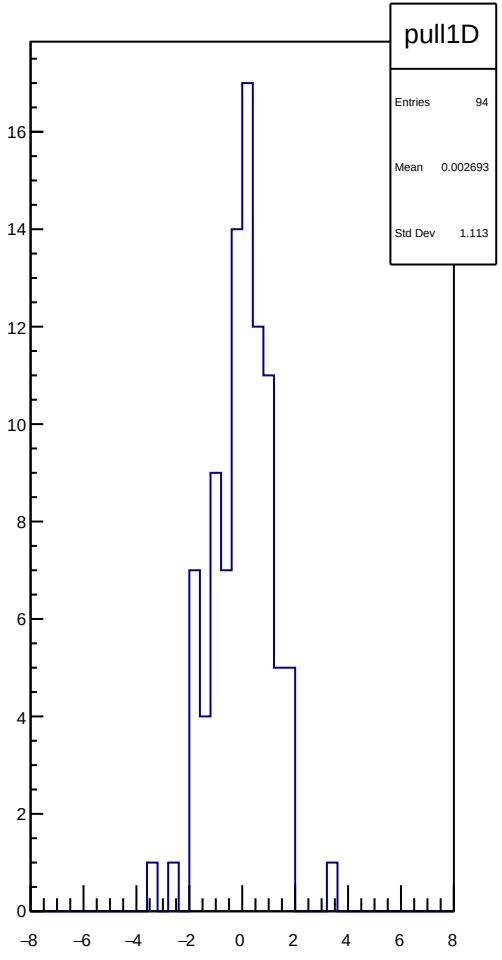

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 73.86 / 93
p0 0.02911 ± 0.01354
pull
Entries 94
Mean −58.16
Std Dev 0

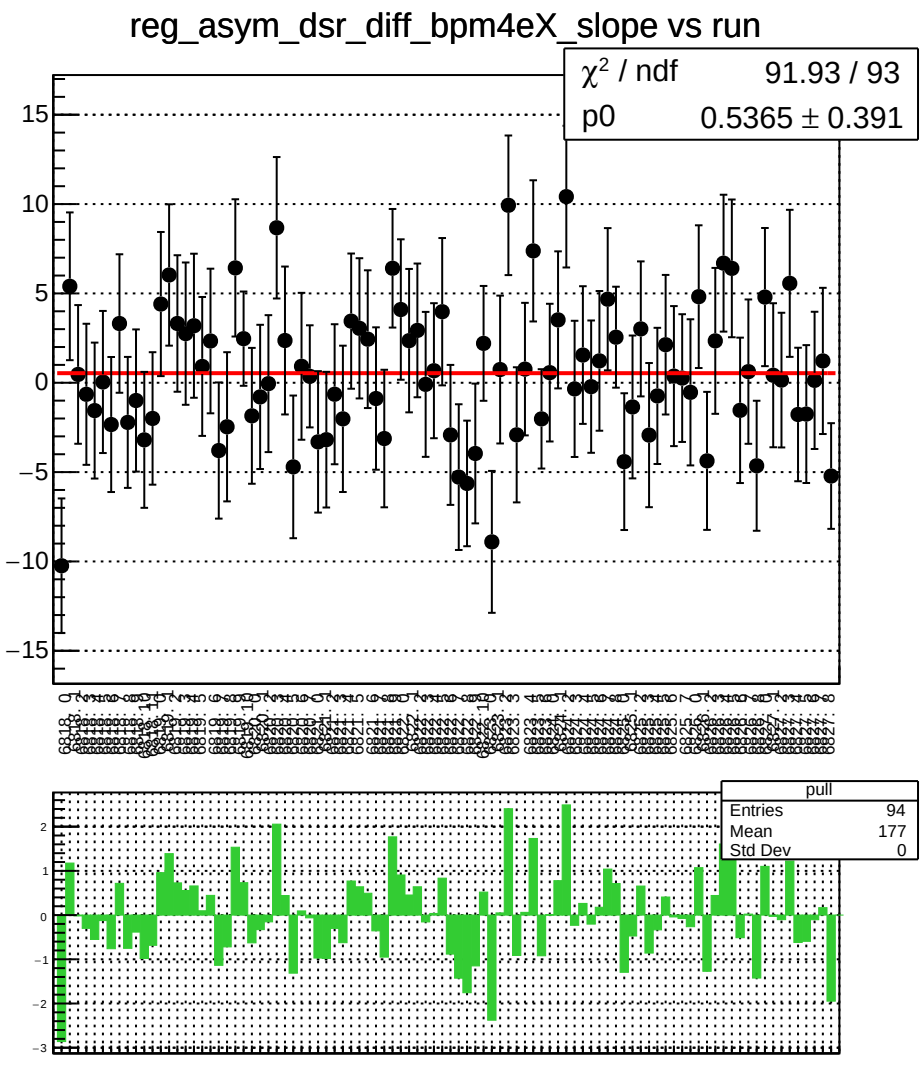

pull1D
Entries 94
Mean 0.0114
Std Dev 0.8863

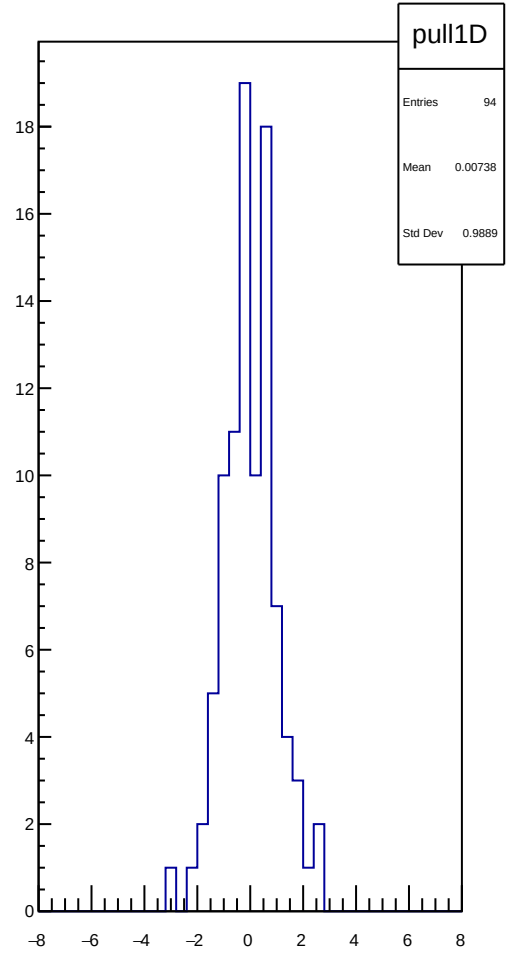

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 88.09 / 93
p0 −0.7211± 0.4185
pull
Entries 94
Mean 212.5
Std Dev 0

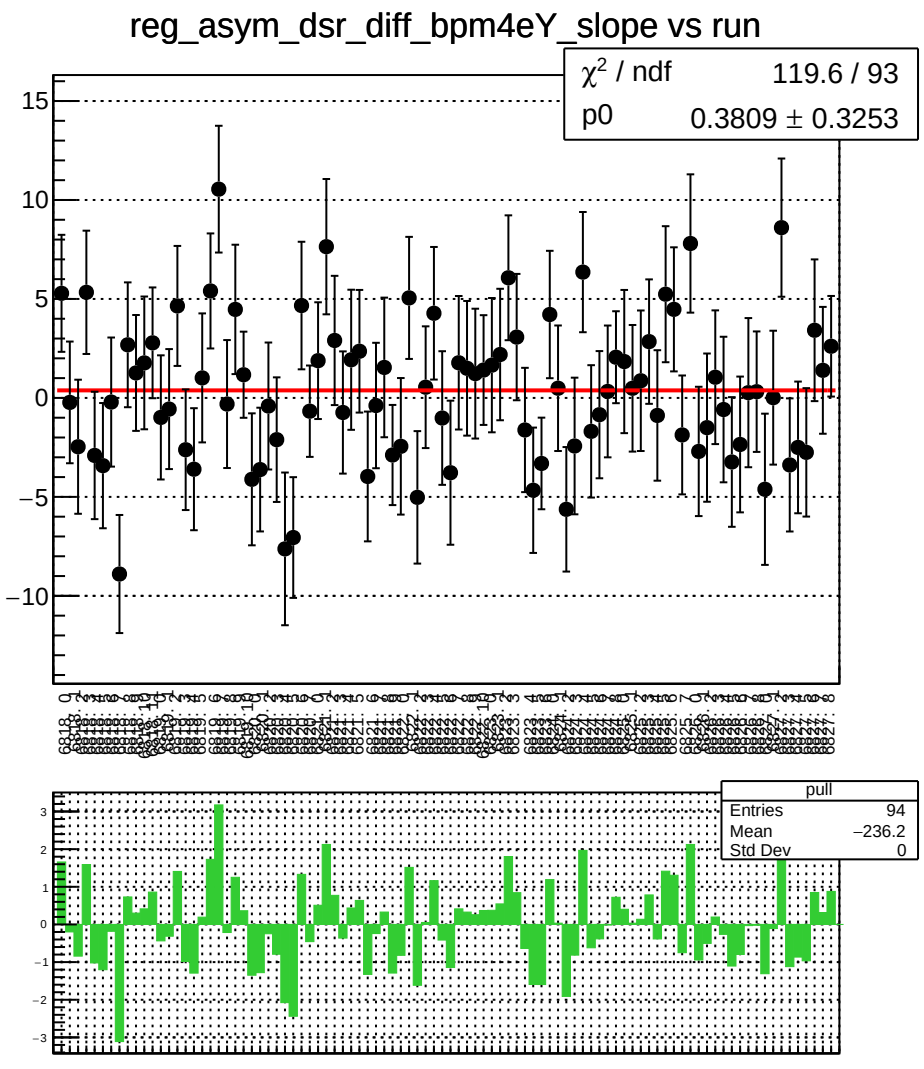

pull1D
Entries 94
Mean −0.005906
Std Dev 0.9681

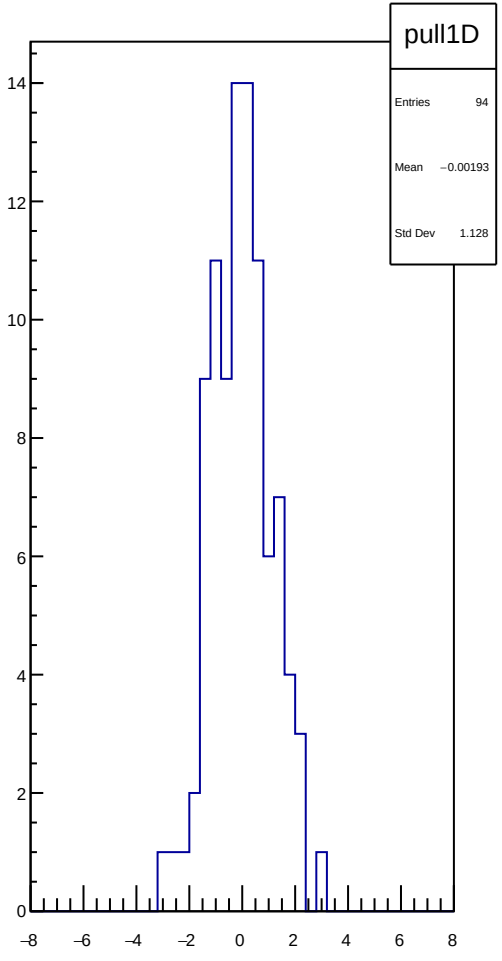

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 116.4 / 93
p0 −0.3425 ± 0.2816
pull
Entries 94
Mean 109.6
Std Dev 0

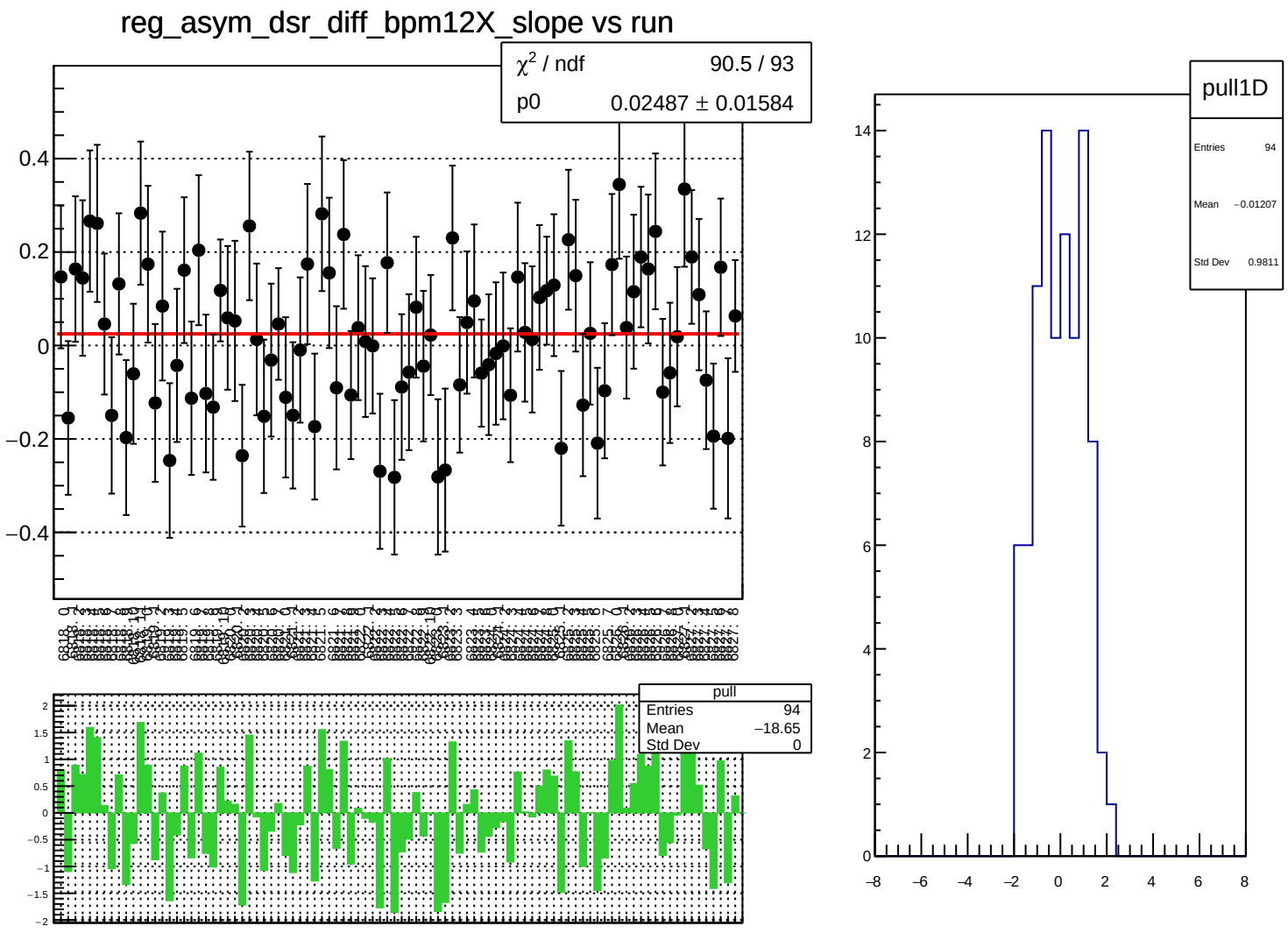

pull1D
Entries 94
Mean 0.002693
Std Dev 1.113

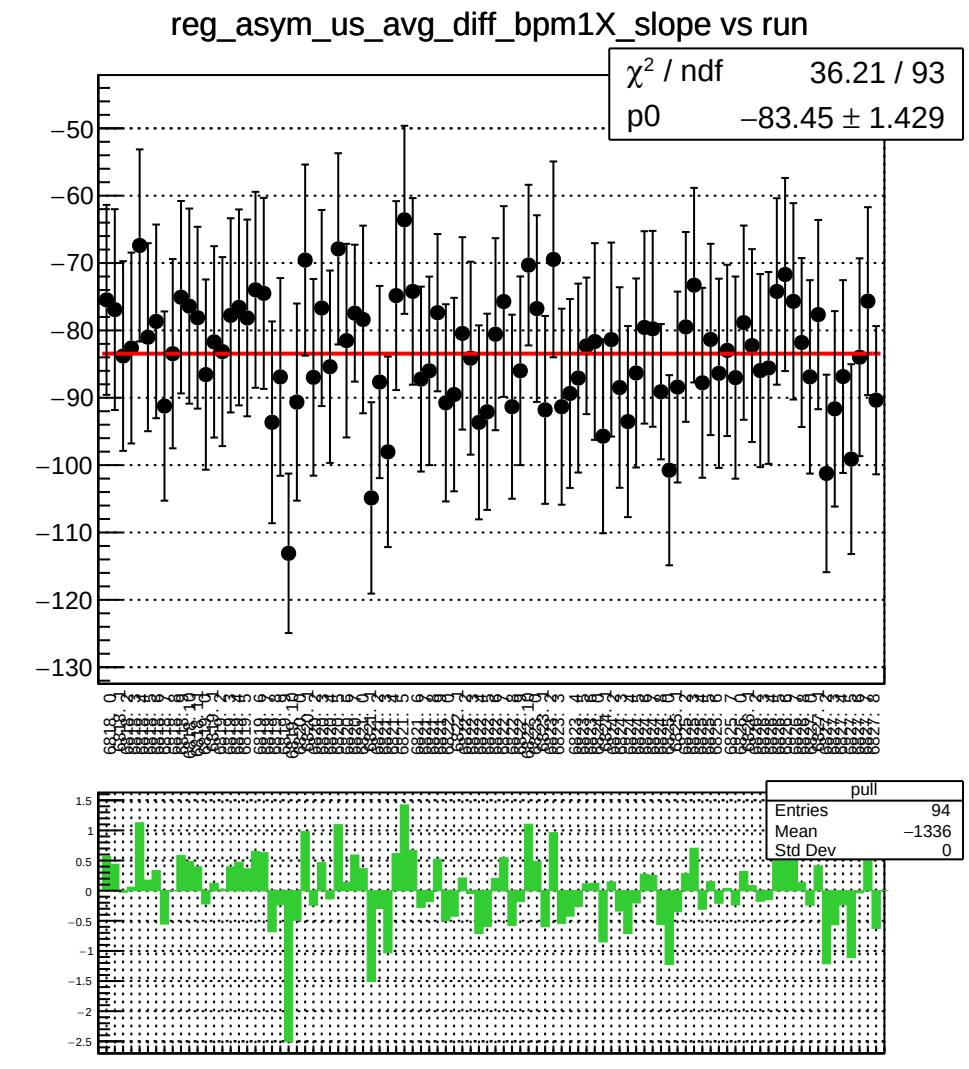

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 91.93 / 93
p0 0.5365 ± 0.391
pull
Entries 94
Mean 177
Std Dev 0

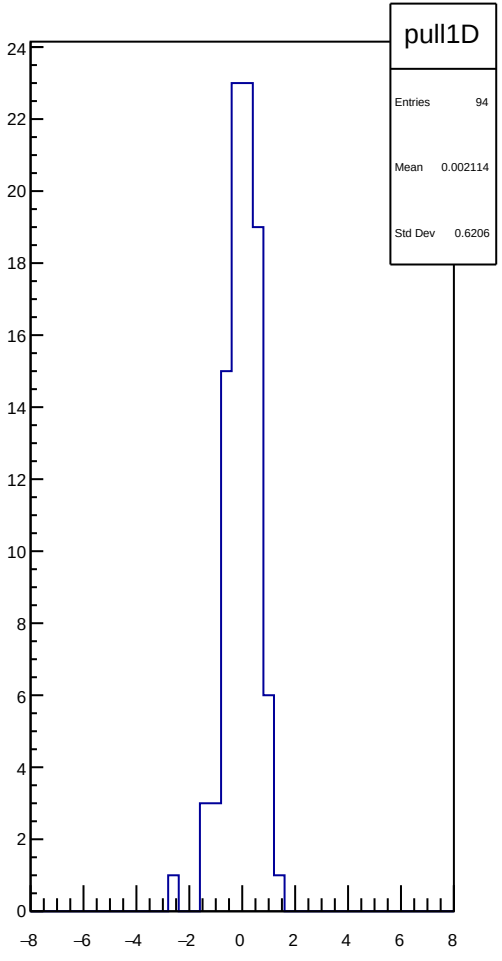

pull1D
Entries 94
Mean 0.00738
Std Dev 0.9889

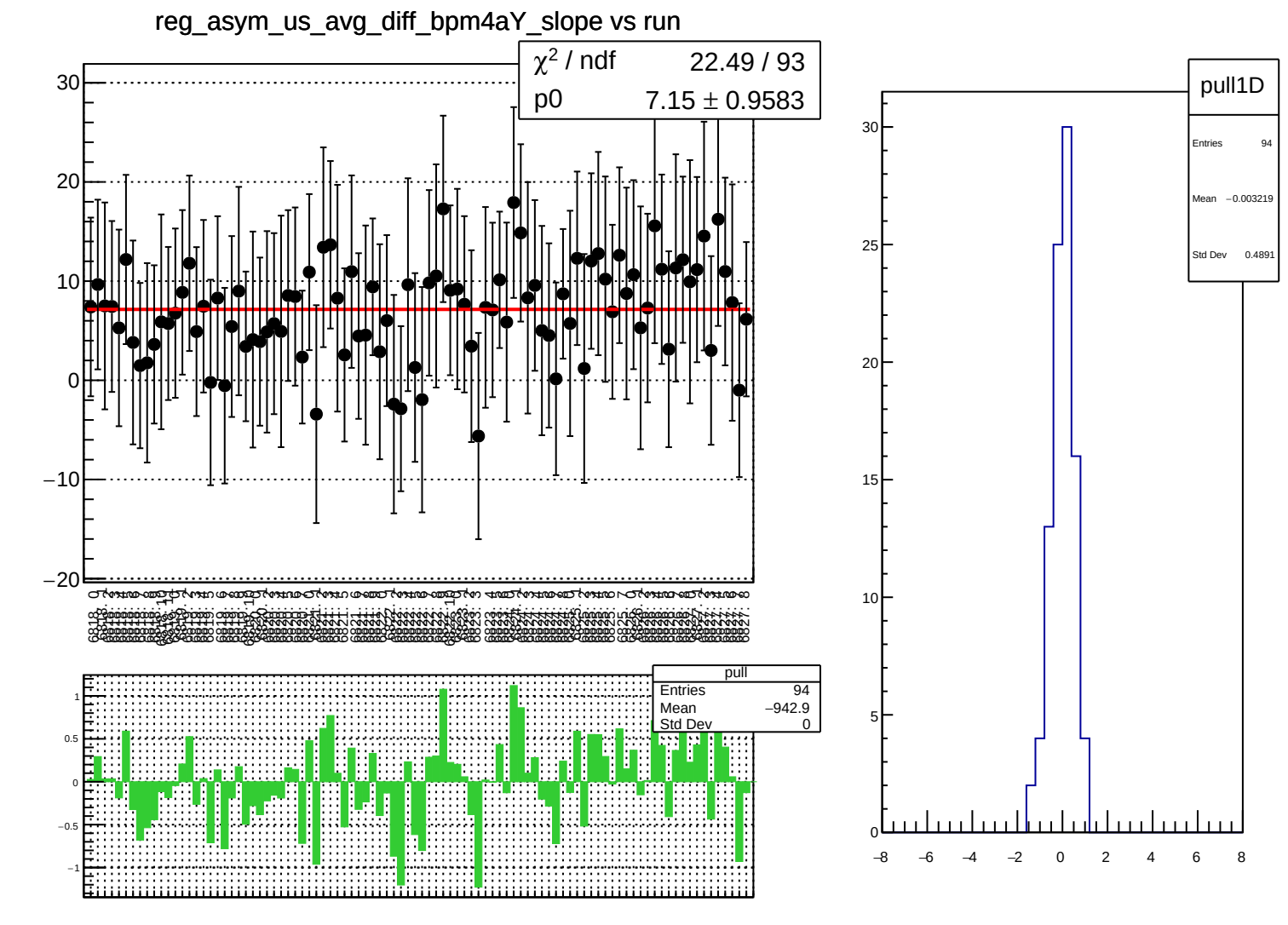

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 119.6 / 93
p0 0.3809 ± 0.3253
pull
Entries 94
Mean −236.2
Std Dev 0

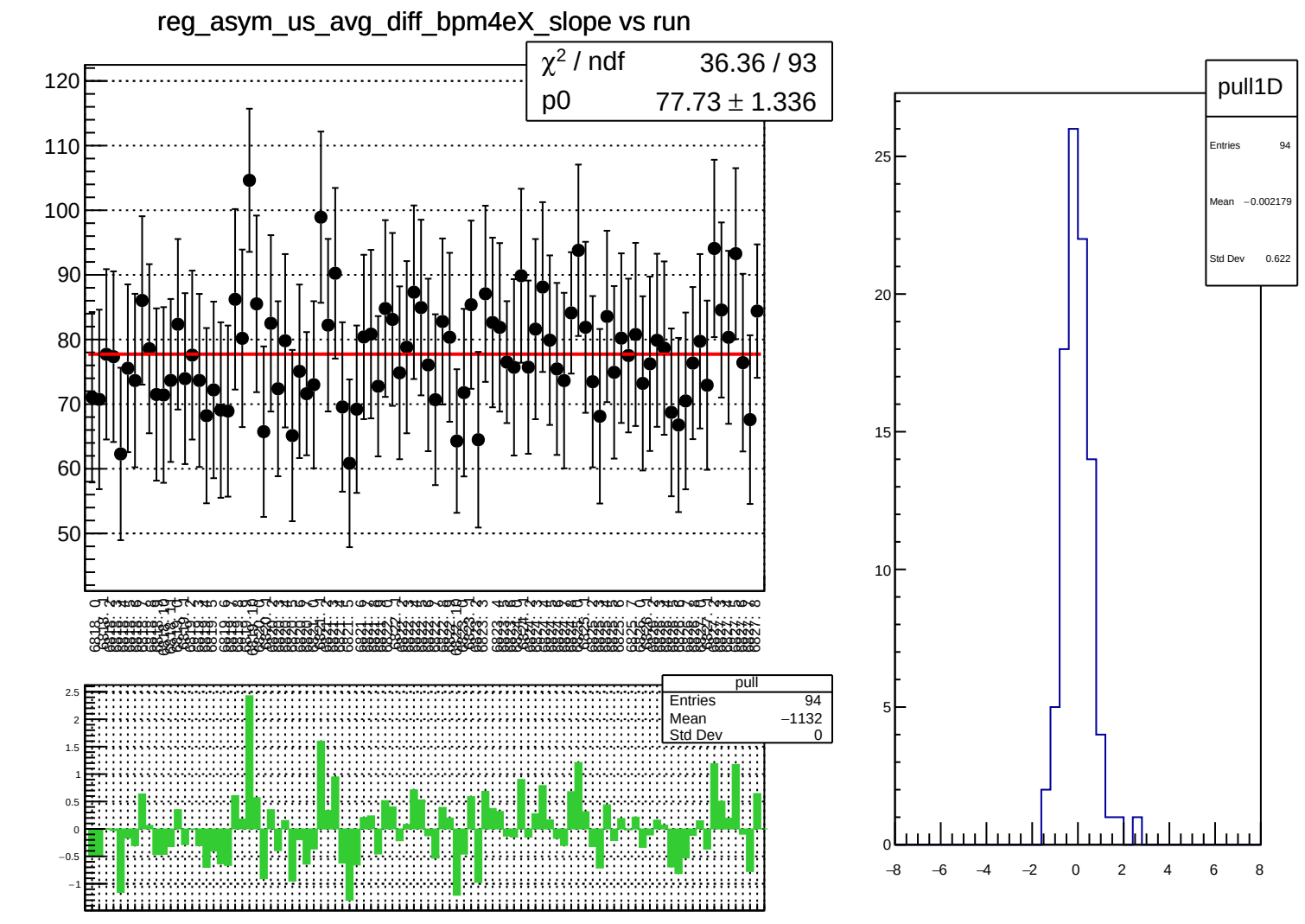

pull1D
Entries 94
Mean −0.00193
Std Dev 1.128

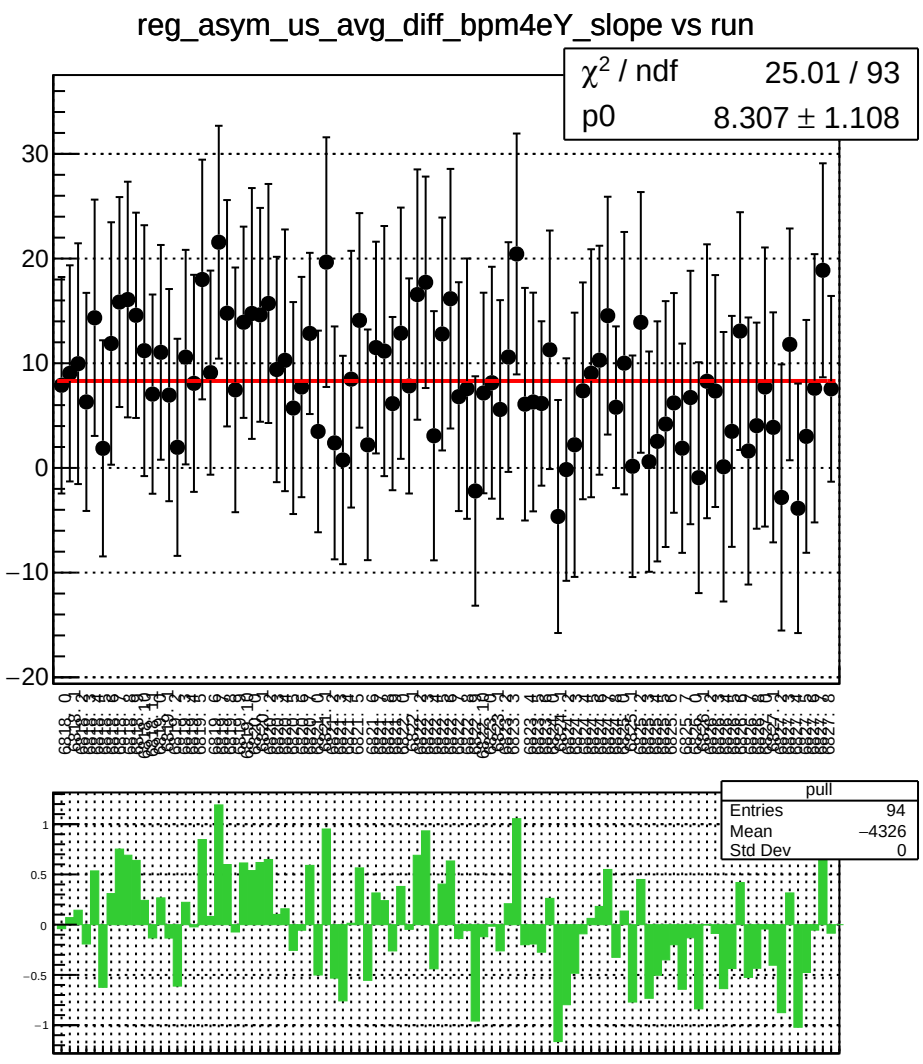

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 90.5 / 93
p0 0.02487 ± 0.01584
pull
Entries 94
Mean −18.65
Std Dev 0
pull1D
Entries 94
Mean −0.01207
Std Dev 0.9811

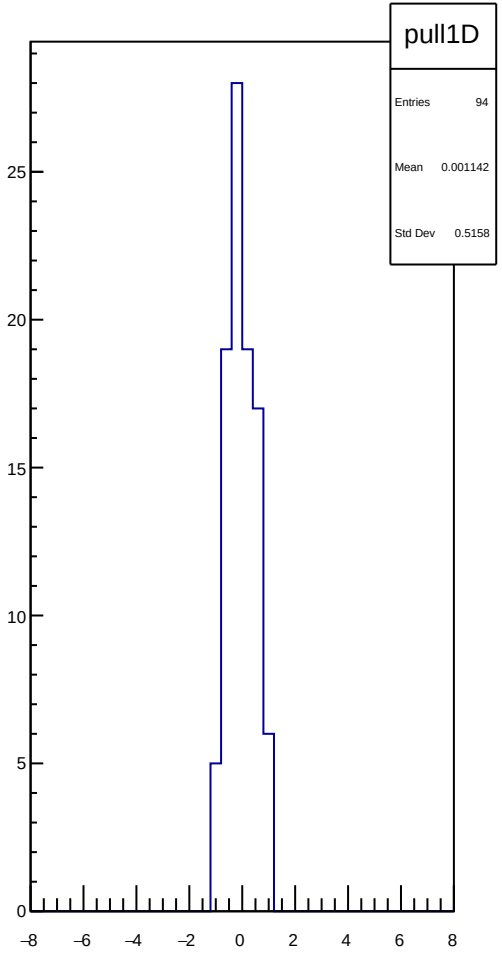

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 36.21 / 93
p0 −83.45 ± 1.429
pull
Entries 94
Mean −1336
Std Dev 0

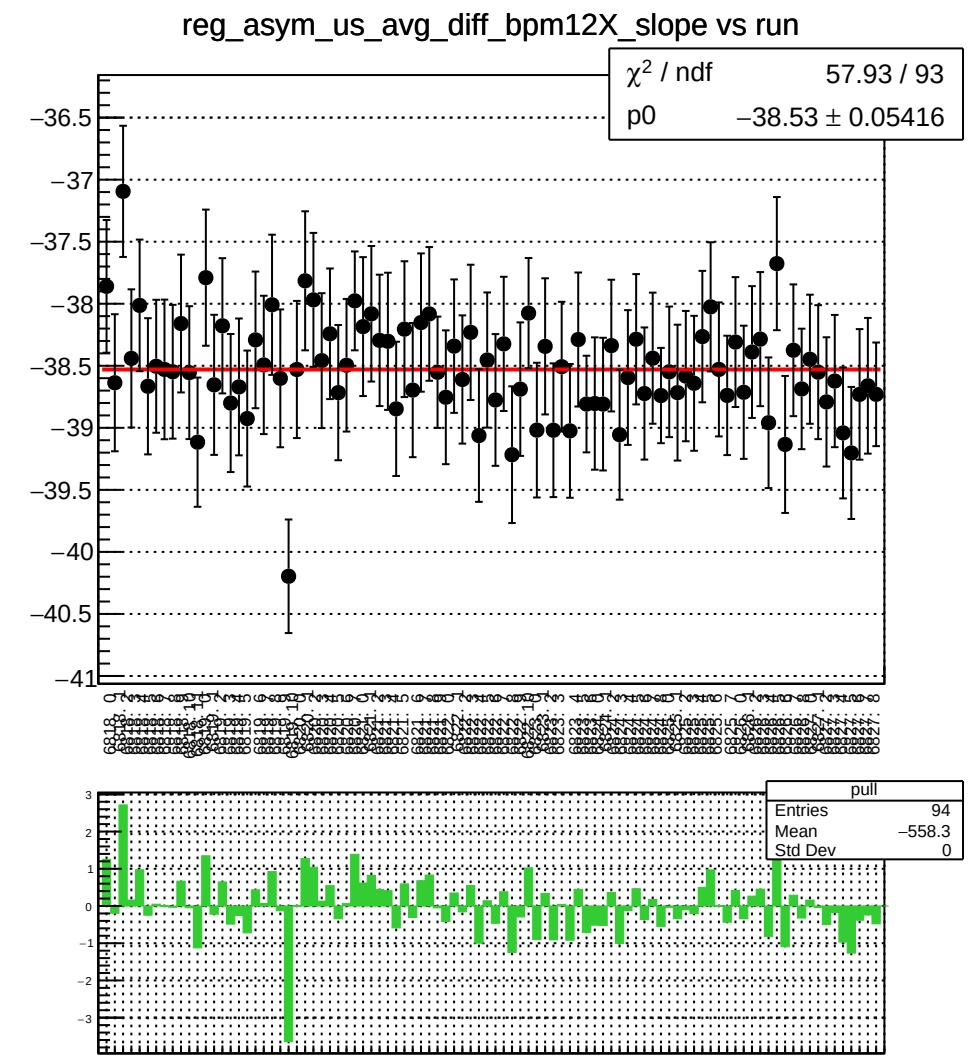

pull1D
Entries 94
Mean 0.002114
Std Dev 0.6206

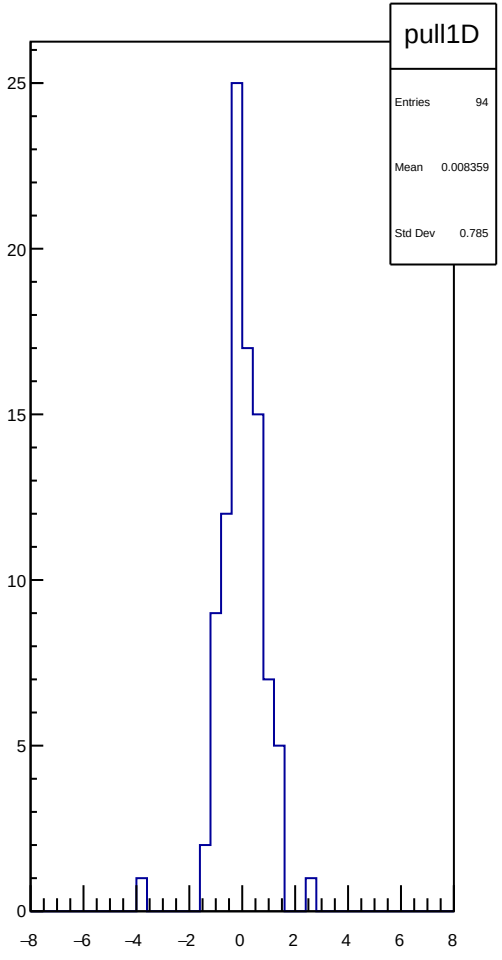

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.49 / 93
p0 7.15 ± 0.9583
pull
Entries 94
Mean −942.9
Std Dev 0
pull1D
Entries 94
Mean −0.003219
Std Dev 0.4891

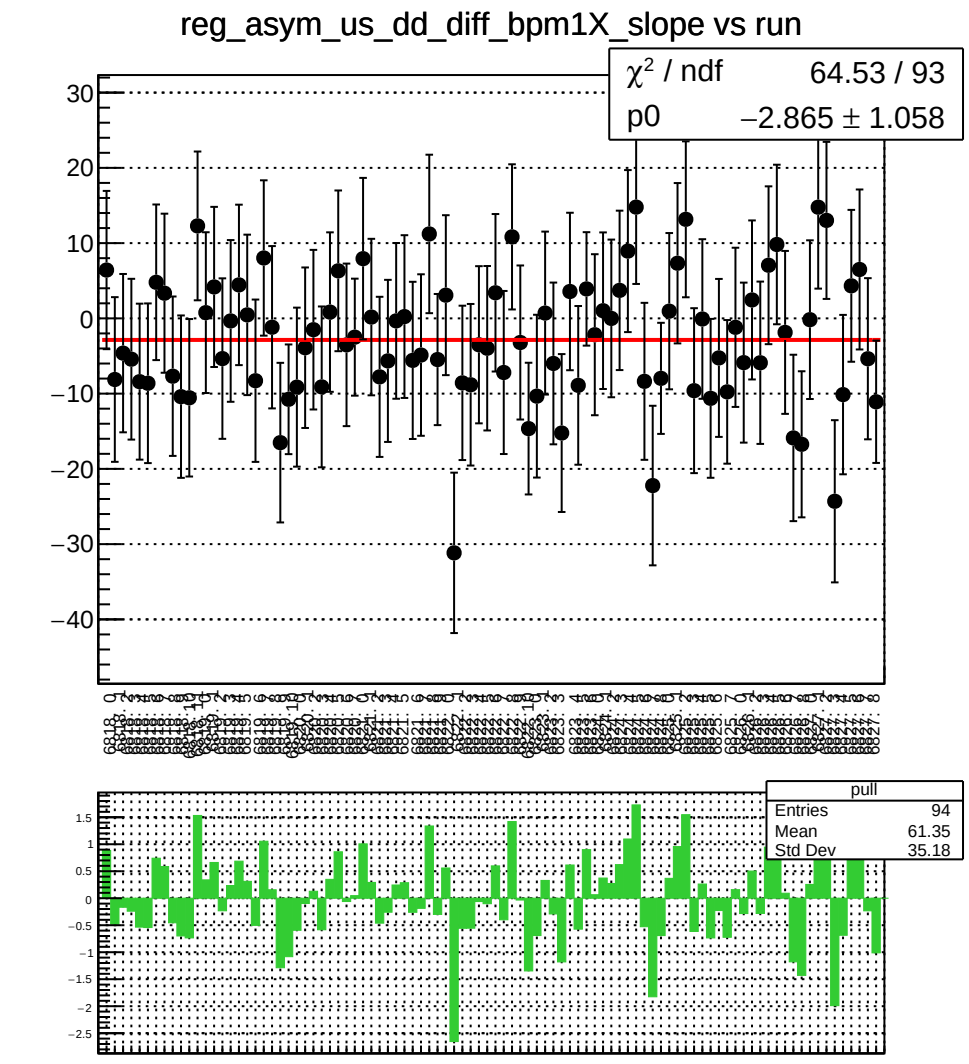

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.36 / 93
p0 77.73 ± 1.336
pull
Entries 94
Mean −1132
Std Dev 0
pull1D
Entries 94
Mean −0.002179
Std Dev 0.622

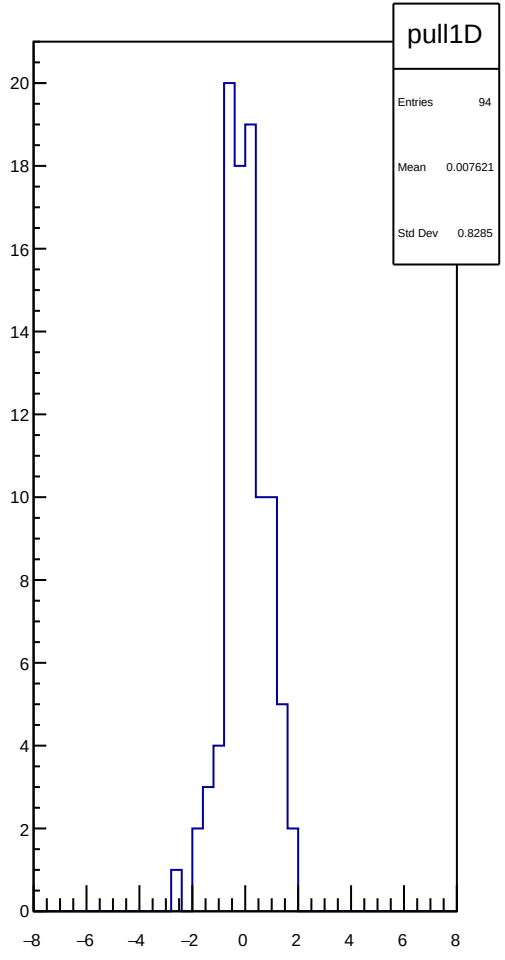

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.01 / 93
p0 8.307 ± 1.108
pull
Entries 94
Mean −4326
Std Dev 0

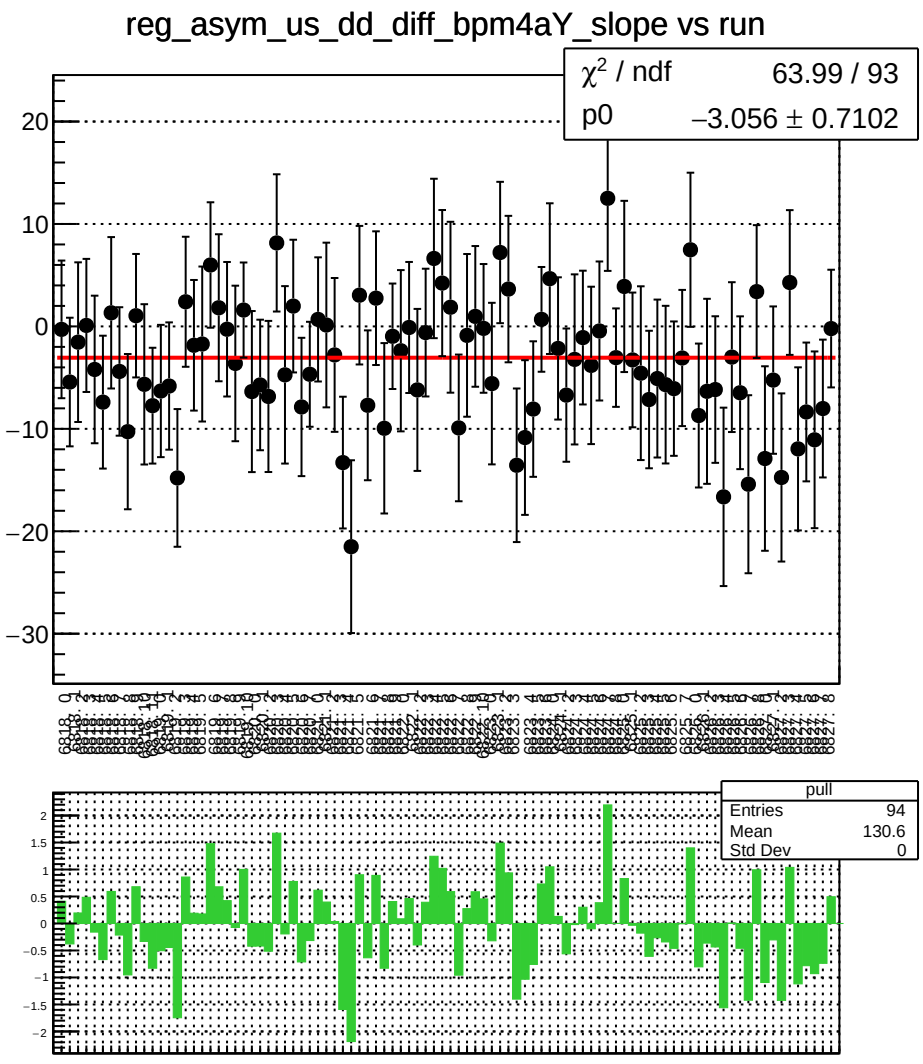

pull1D
Entries 94
Mean 0.001142
Std Dev 0.5158

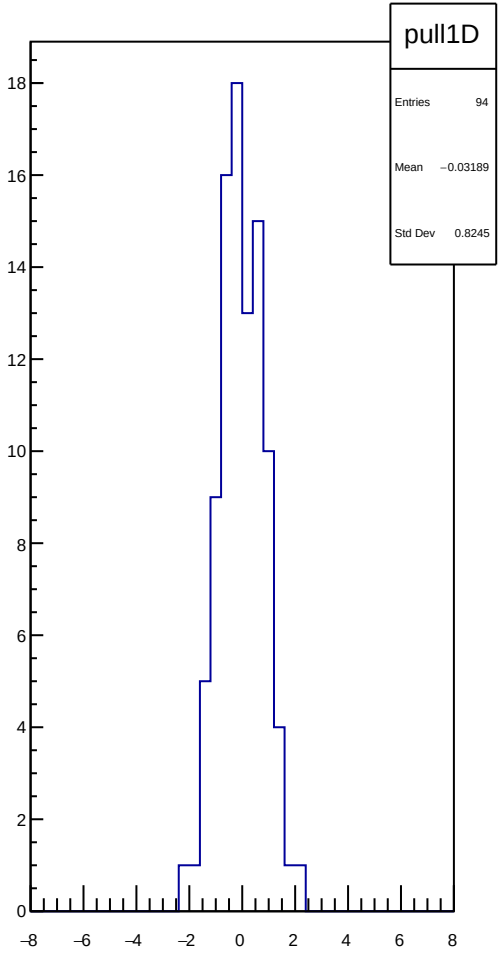

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 57.93 / 93
p0 −38.53 ± 0.05416
pull
Entries 94
Mean −558.3
Std Dev 0

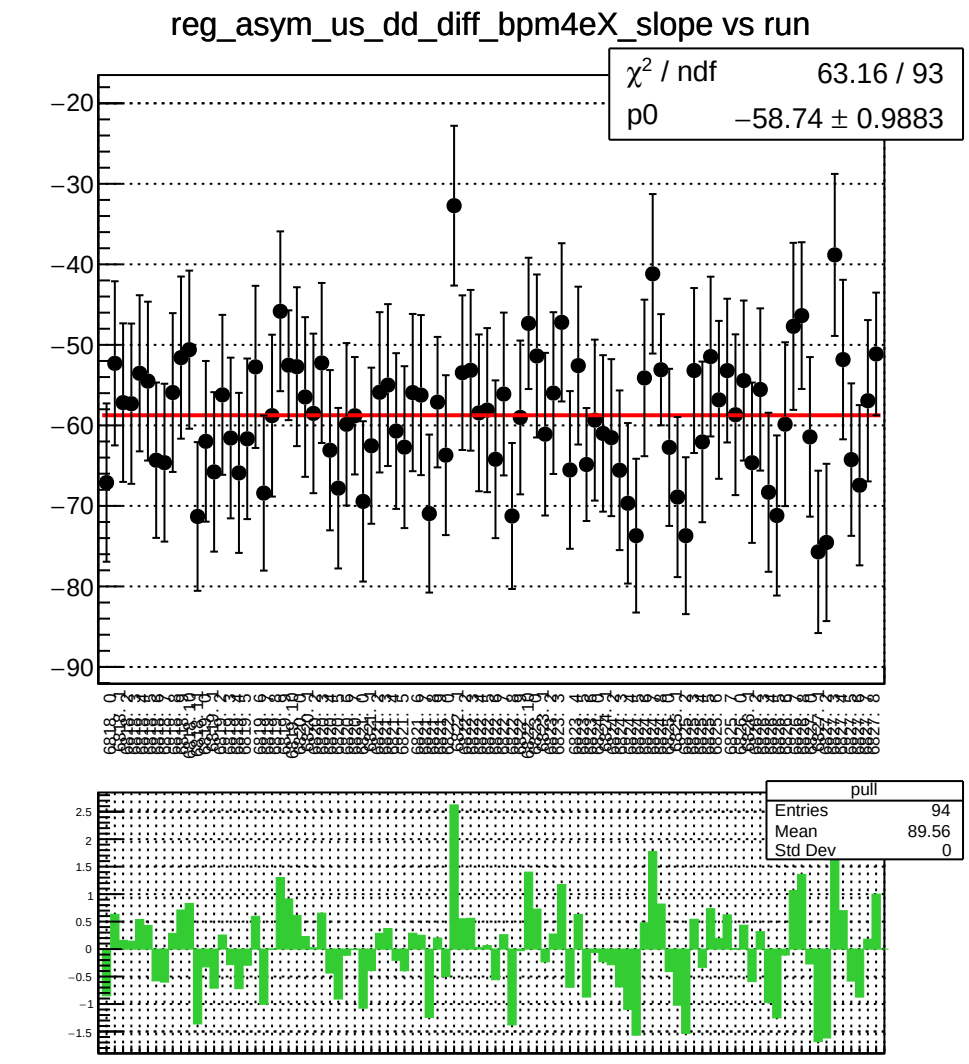

pull1D
Entries 94
Mean 0.008359
Std Dev 0.785

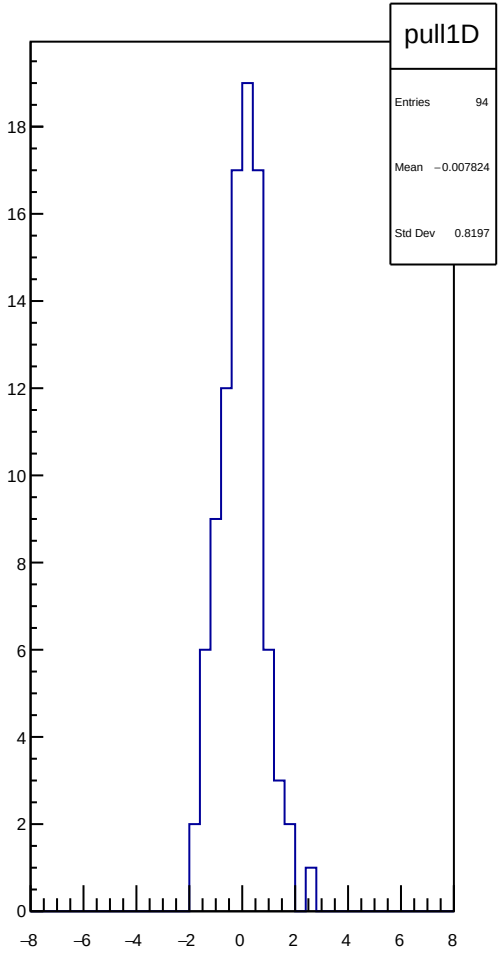

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 64.53 / 93
p0 −2.865 ± 1.058
pull
Entries 94
Mean 61.35
Std Dev 35.18

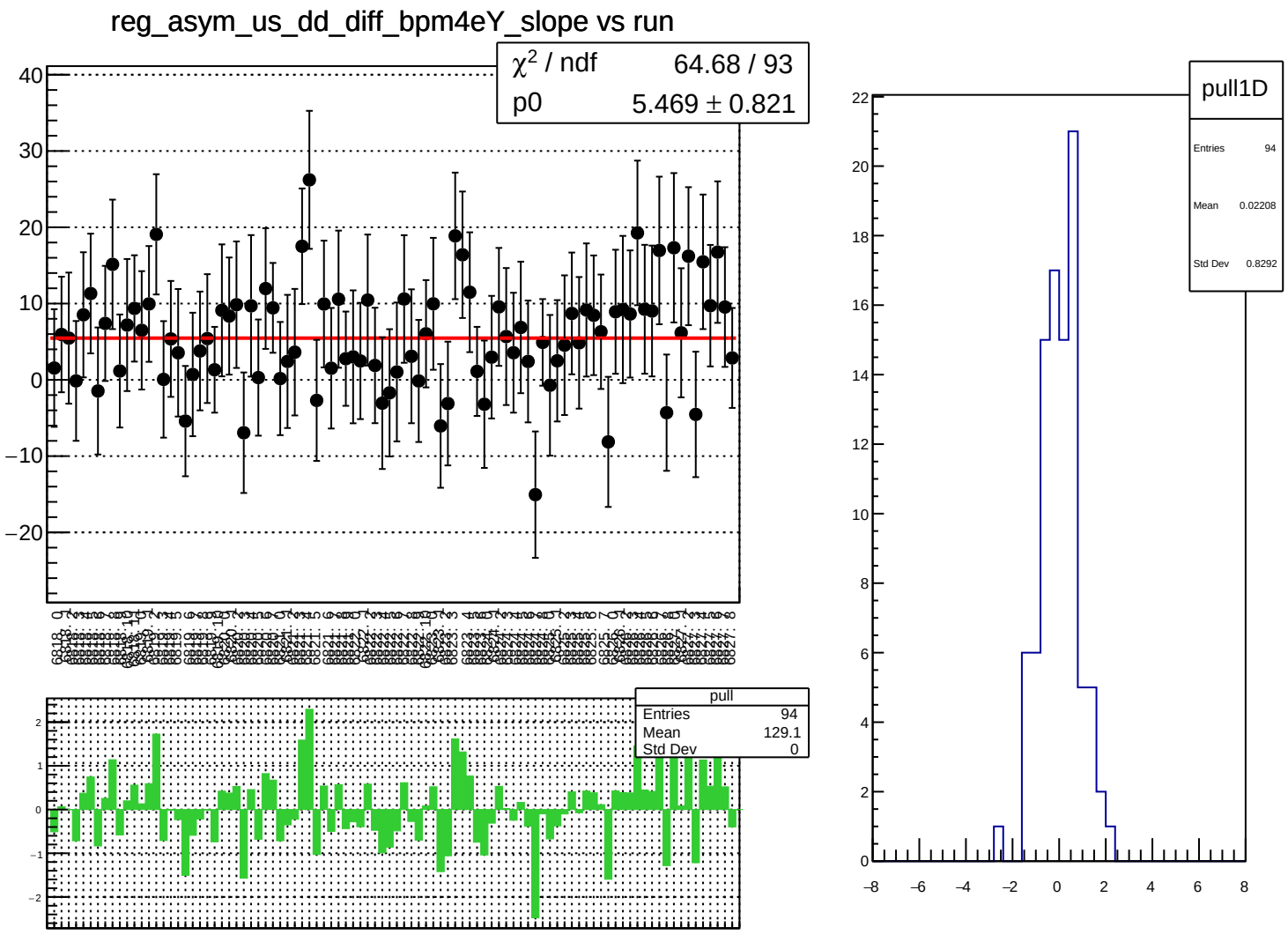

pull1D
Entries 94
Mean 0.007621
Std Dev 0.8285

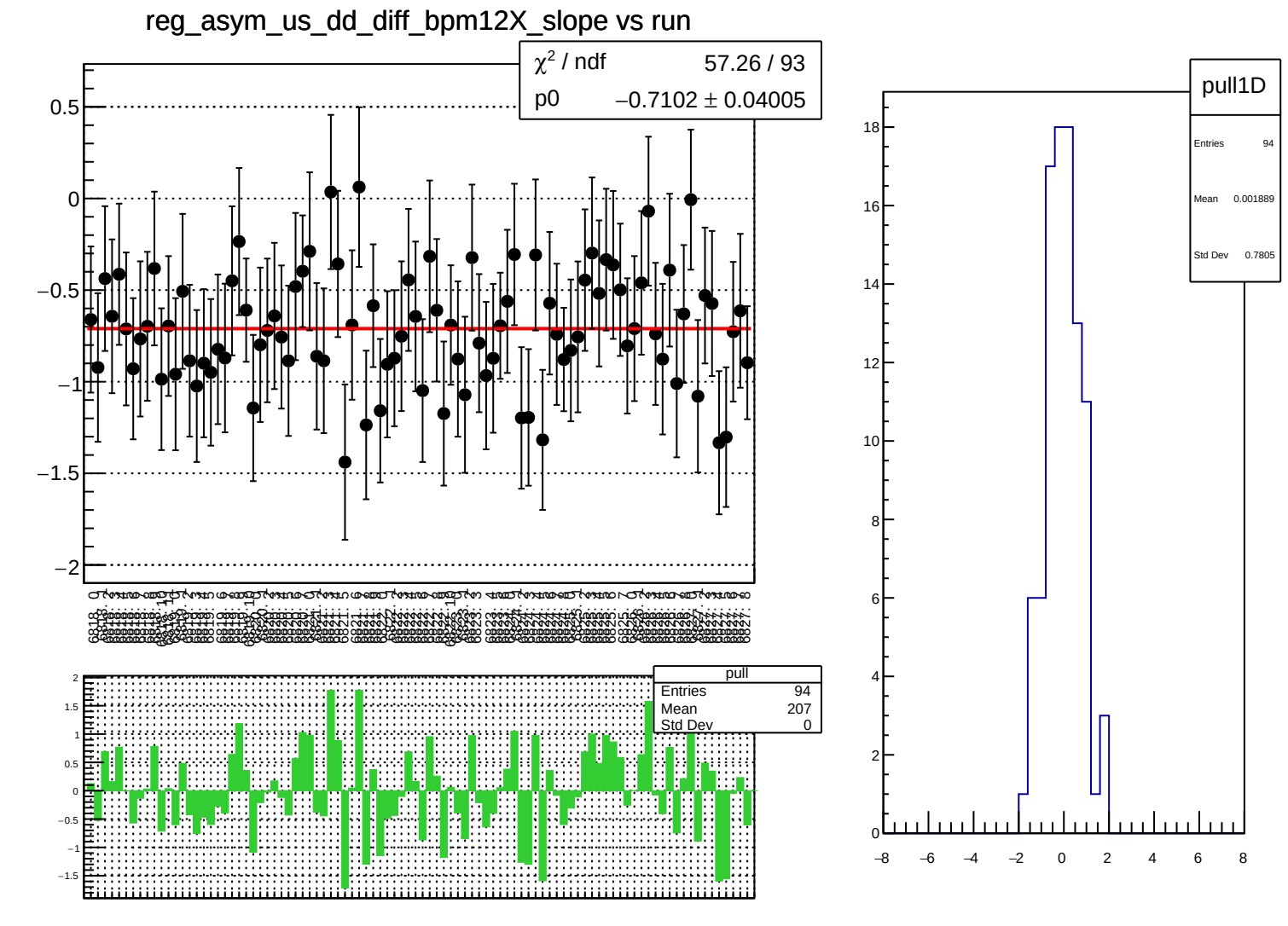

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 63.99 / 93
p0 −3.056 ± 0.7102
pull
Entries 94
Mean 130.6
Std Dev 0

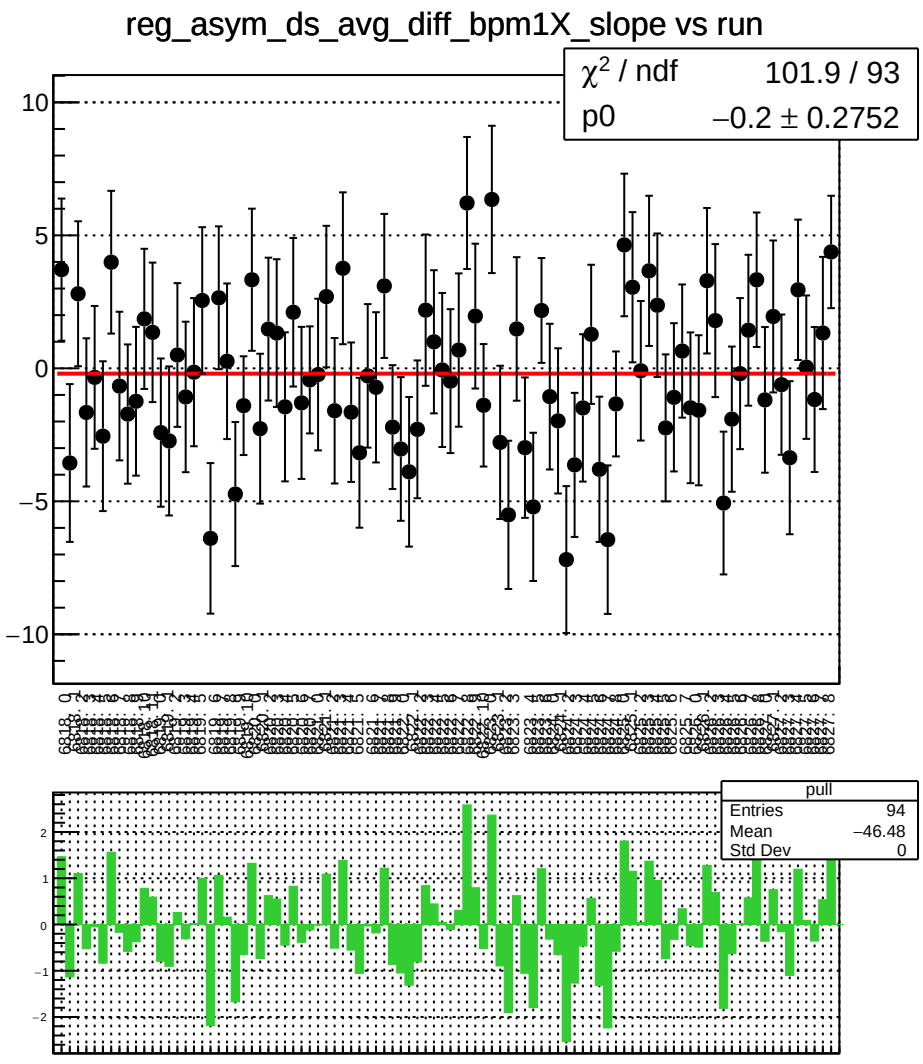

pull1D
Entries 94
Mean −0.03189
Std Dev 0.8245

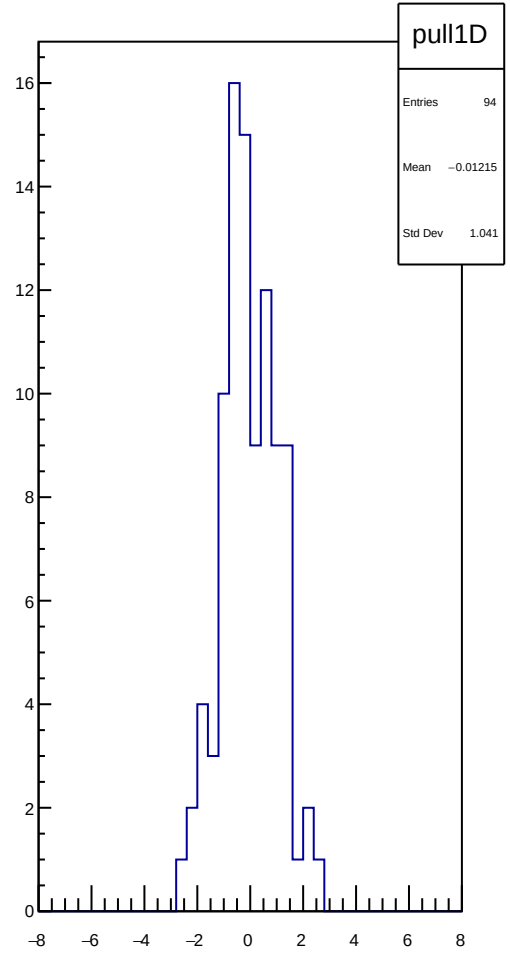

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.16 / 93
p0 −58.74 ± 0.9883
pull
Entries 94
Mean 89.56
Std Dev 0

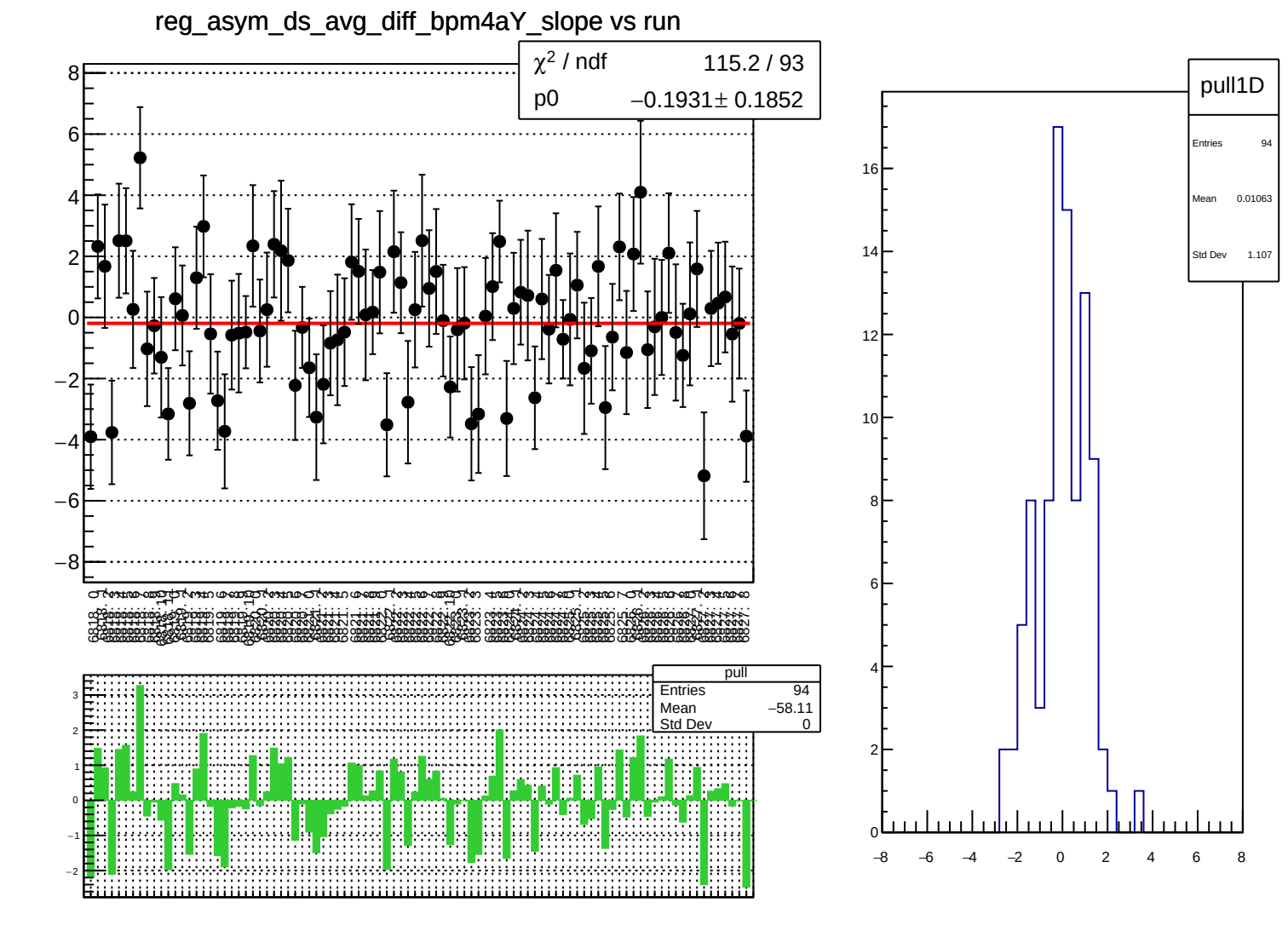

pull1D
Entries 94
Mean −0.007824
Std Dev 0.8197

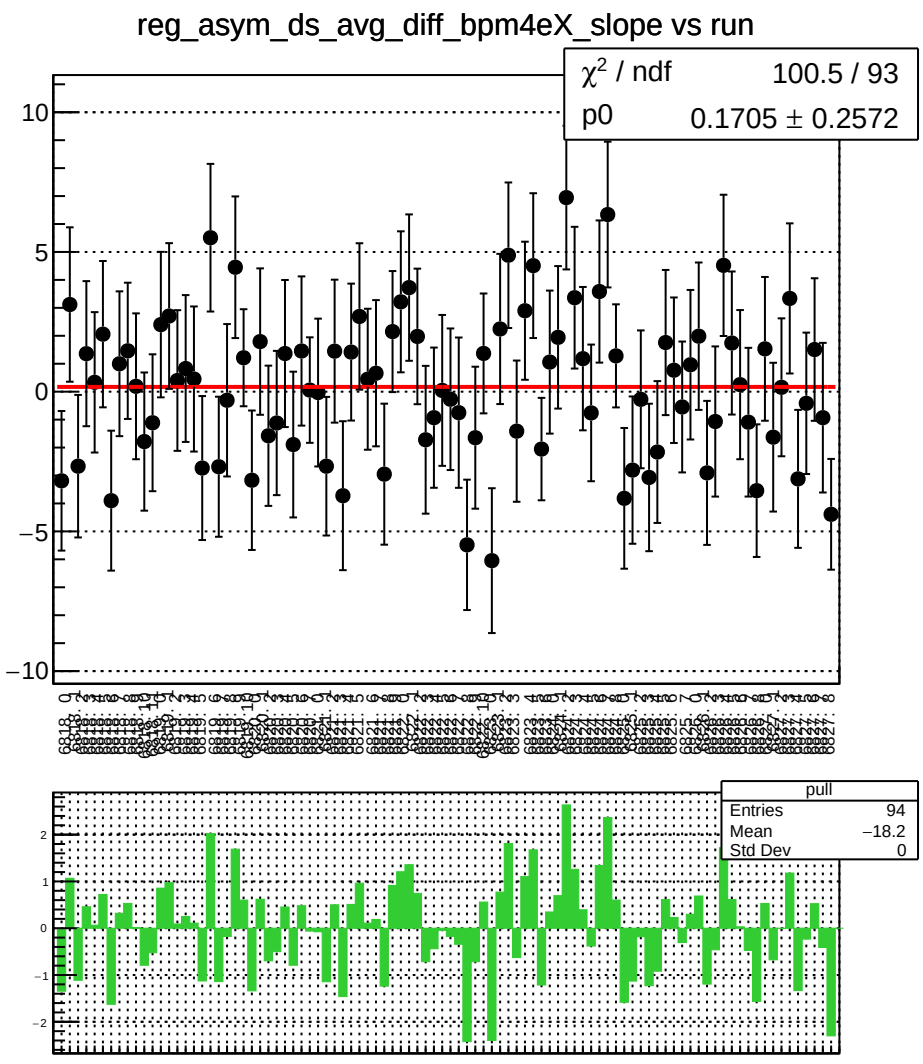

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.68 / 93
p0 5.469 ± 0.821
pull
Entries 94
Mean 129.1
Std Dev 0
pull1D
Entries 94
Mean 0.02208
Std Dev 0.8292

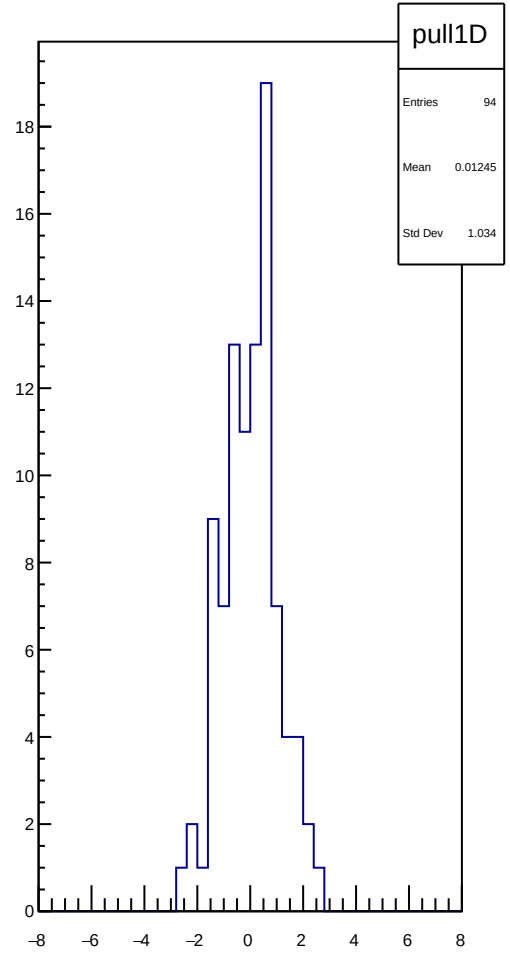

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 57.26 / 93
p0 −0.7102 ± 0.04005
pull
Entries 94
Mean 207
Std Dev 0
pull1D
Entries 94
Mean 0.001889
Std Dev 0.7805

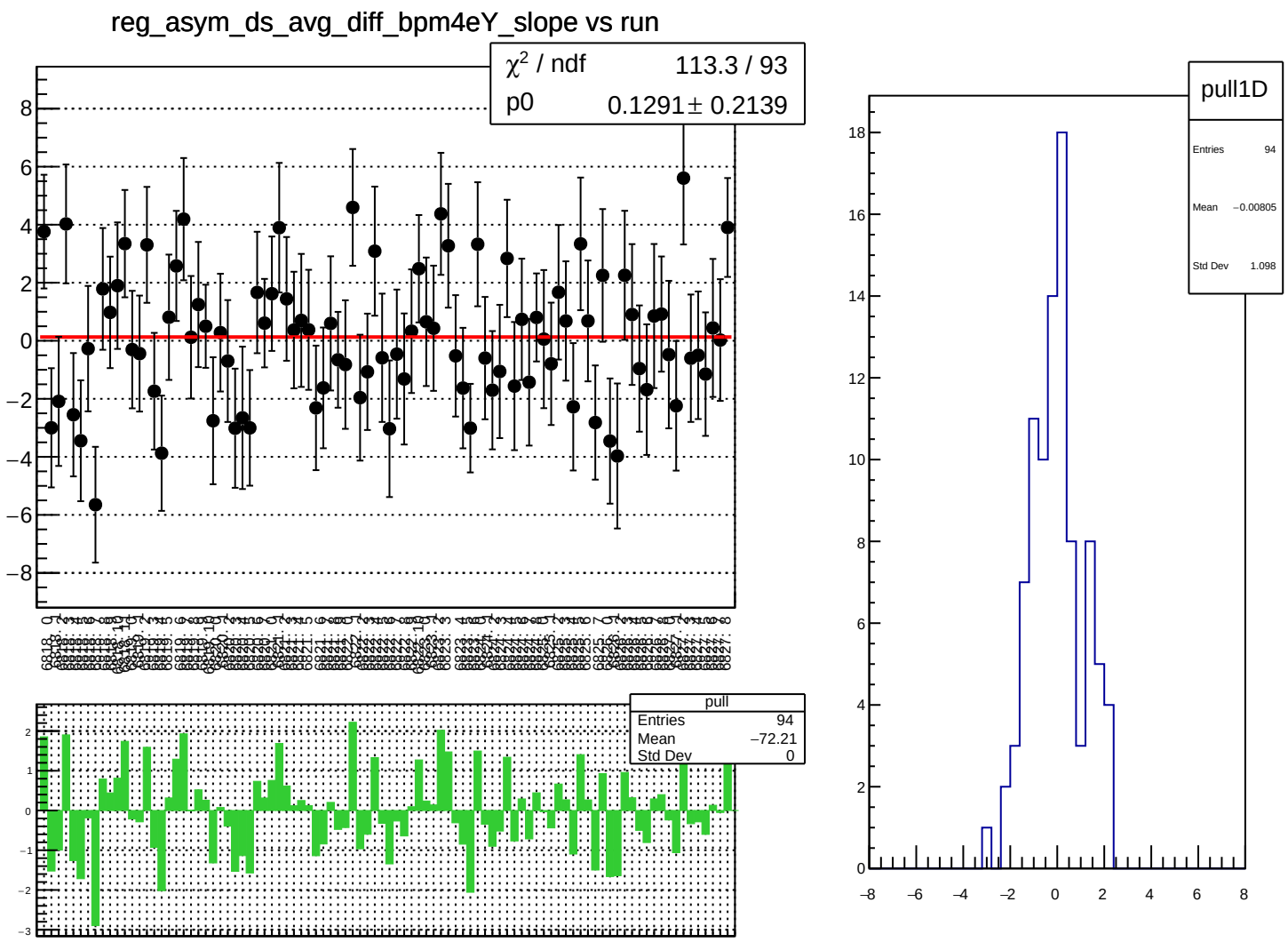

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 101.9 / 93
p0 −0.2 ± 0.2752
pull
Entries 94
Mean −46.48
Std Dev 0

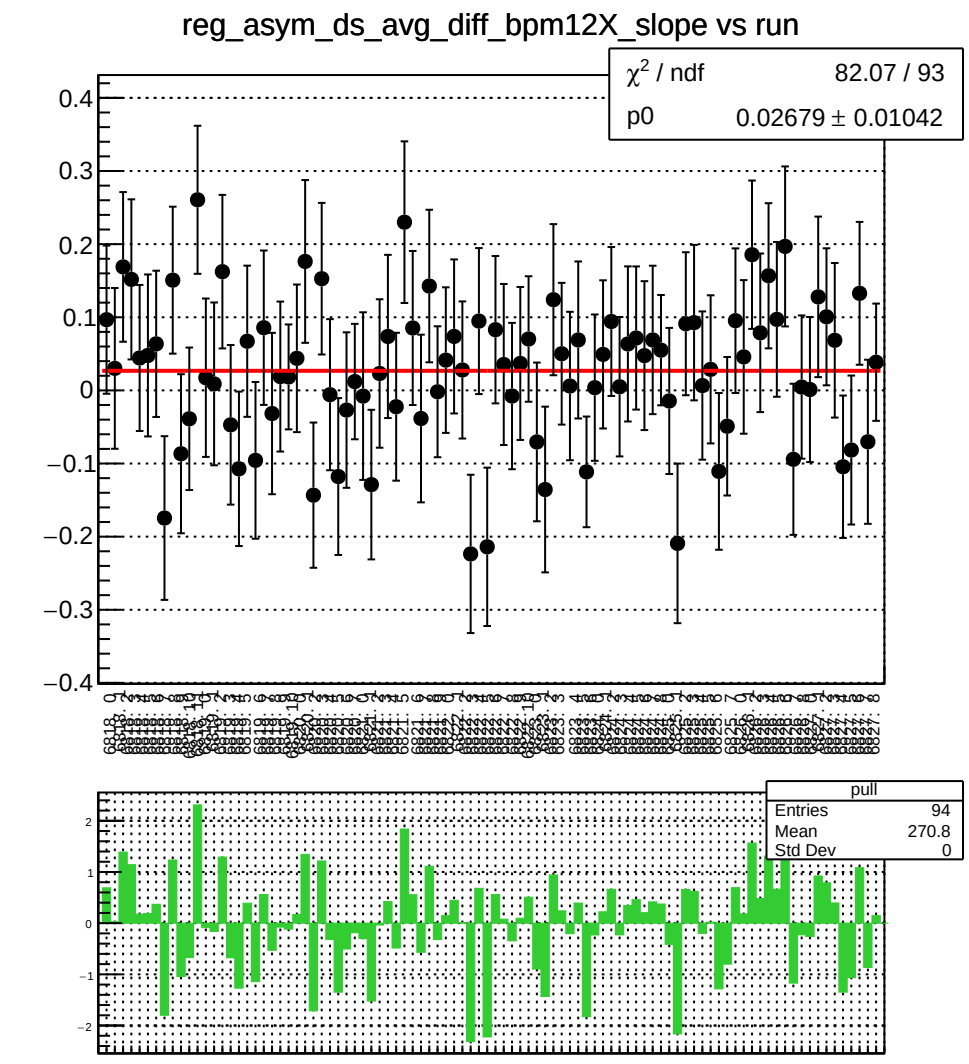

pull1D
Entries 94
Mean −0.01215
Std Dev 1.041

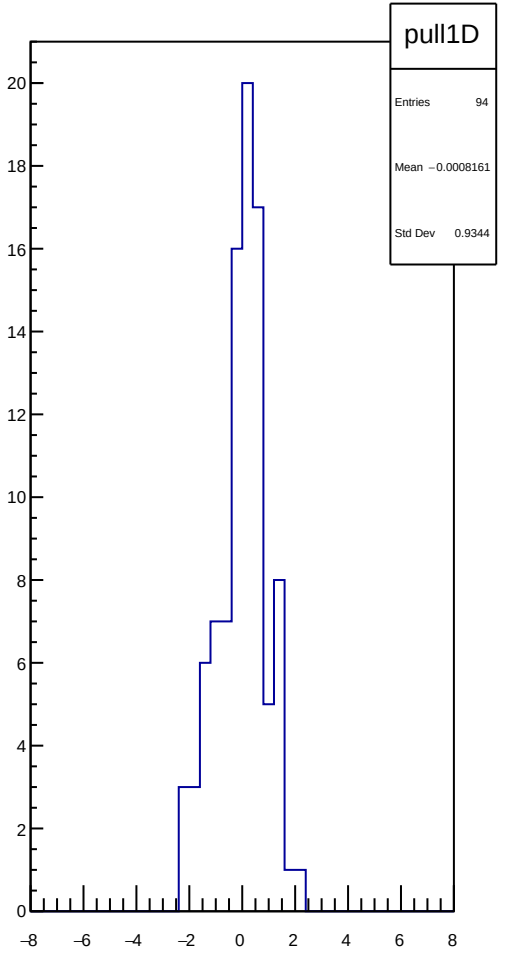

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.2 / 93
p0 −0.1931± 0.1852
pull
Entries 94
Mean −58.11
Std Dev 0
pull1D
Entries 94
Mean 0.01063
Std Dev 1.107

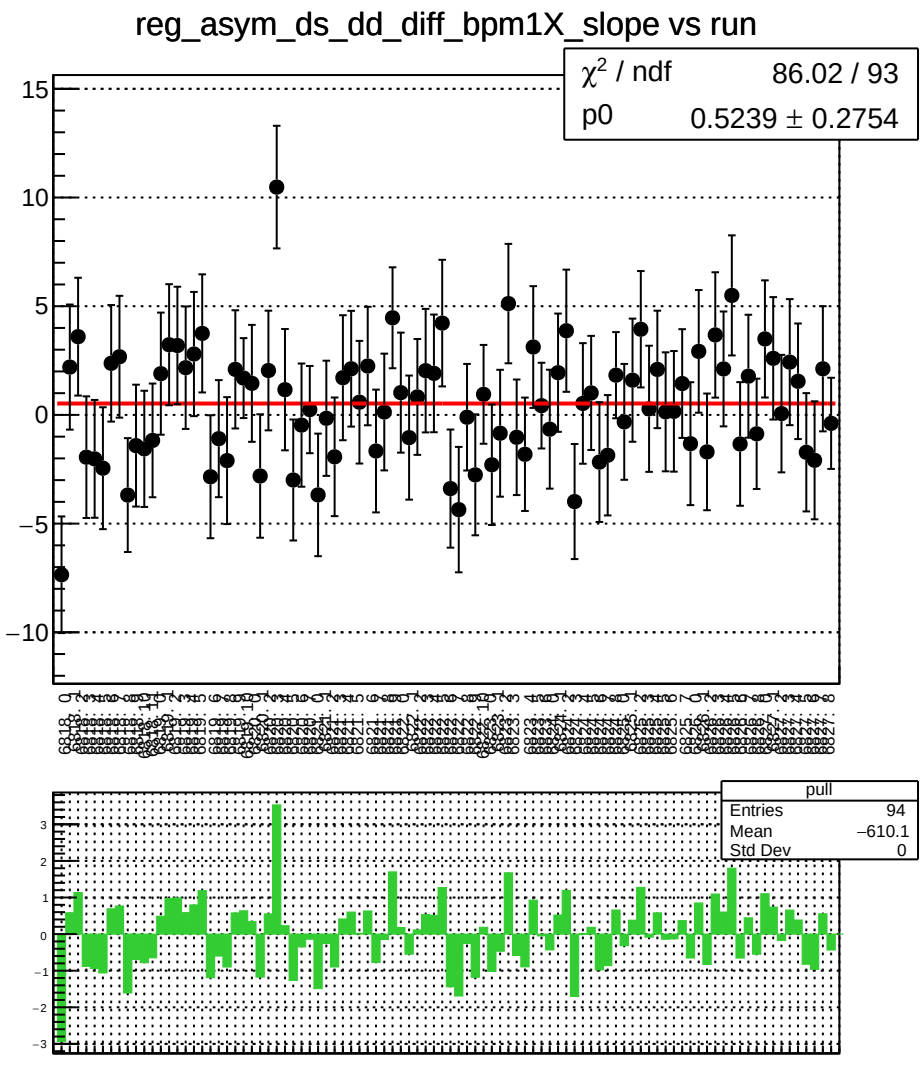

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.5 / 93
p0 0.1705 ± 0.2572
pull
Entries 94
Mean −18.2
Std Dev 0

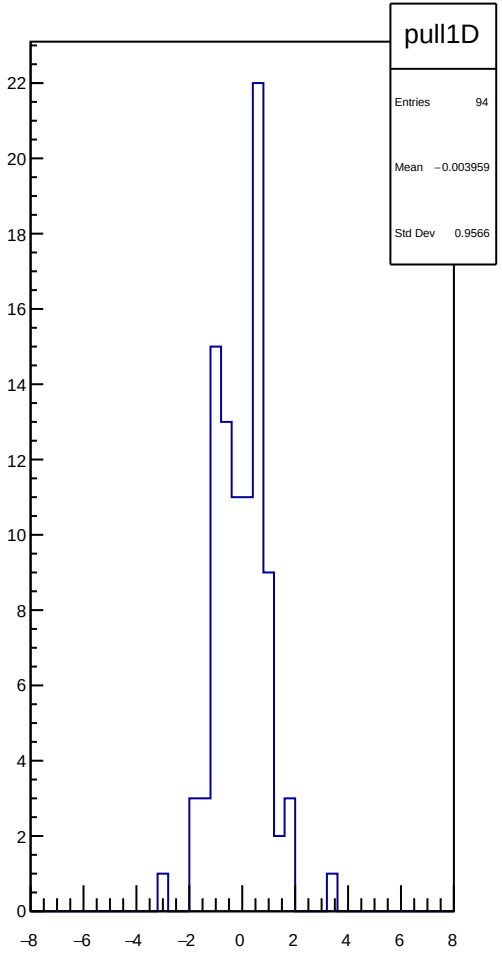

pull1D
Entries 94
Mean 0.01245
Std Dev 1.034

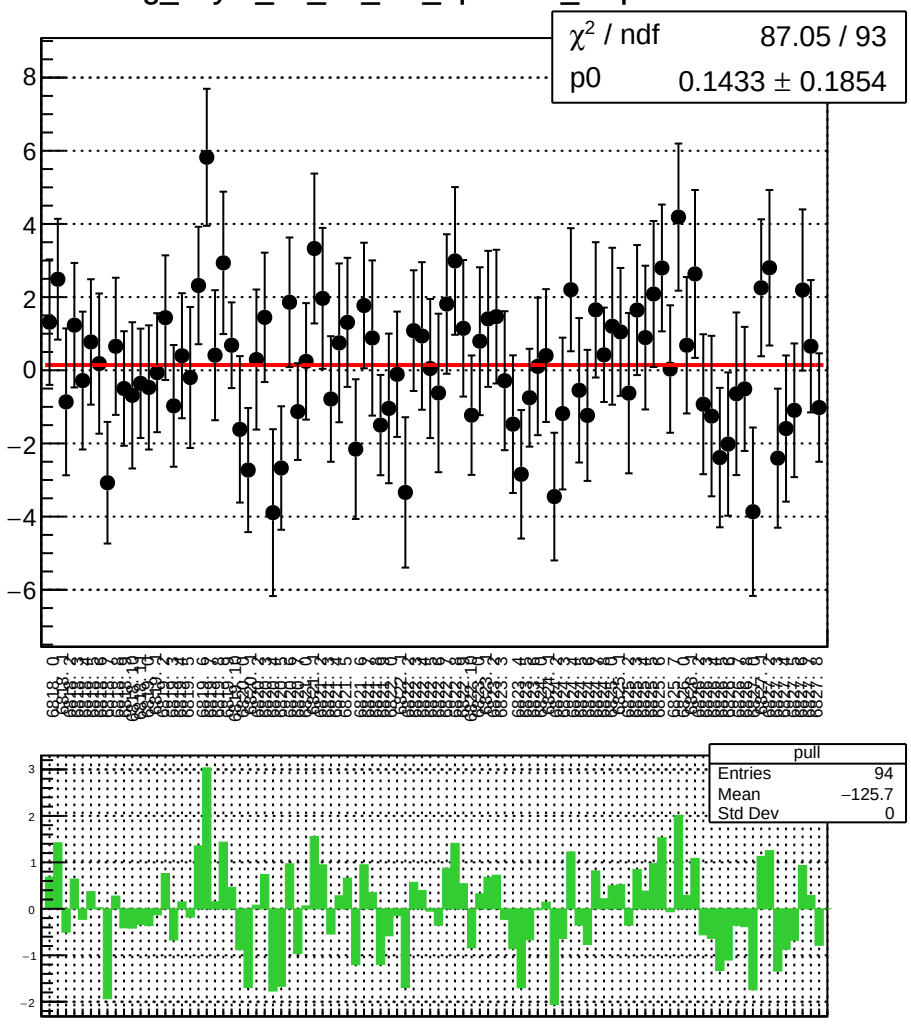

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 113.3 / 93
p0 0.1291 ± 0.2139
pull
Entries 94
Mean −72.21
Std Dev 0
pull1D
Entries 94
Mean −0.00805
Std Dev 1.098

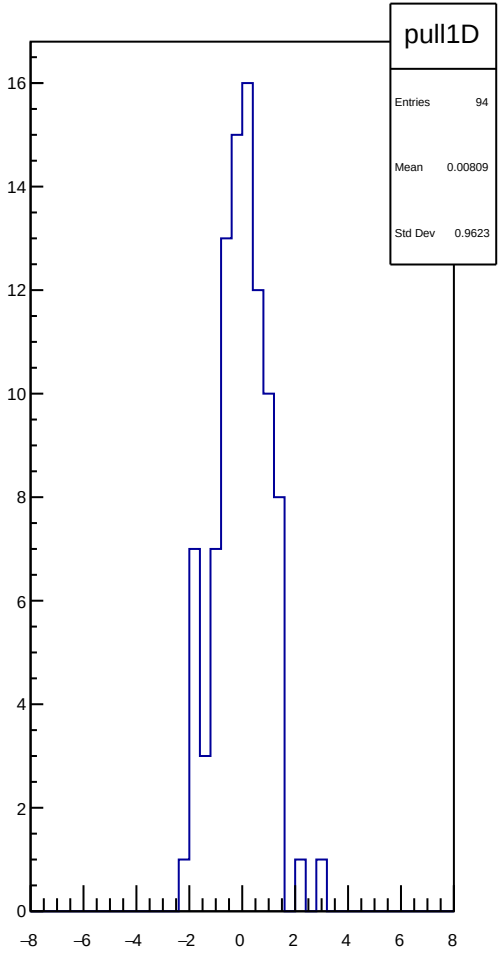

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 82.07 / 93
p0 0.02679 ± 0.01042
pull
Entries 94
Mean 270.8
Std Dev 0

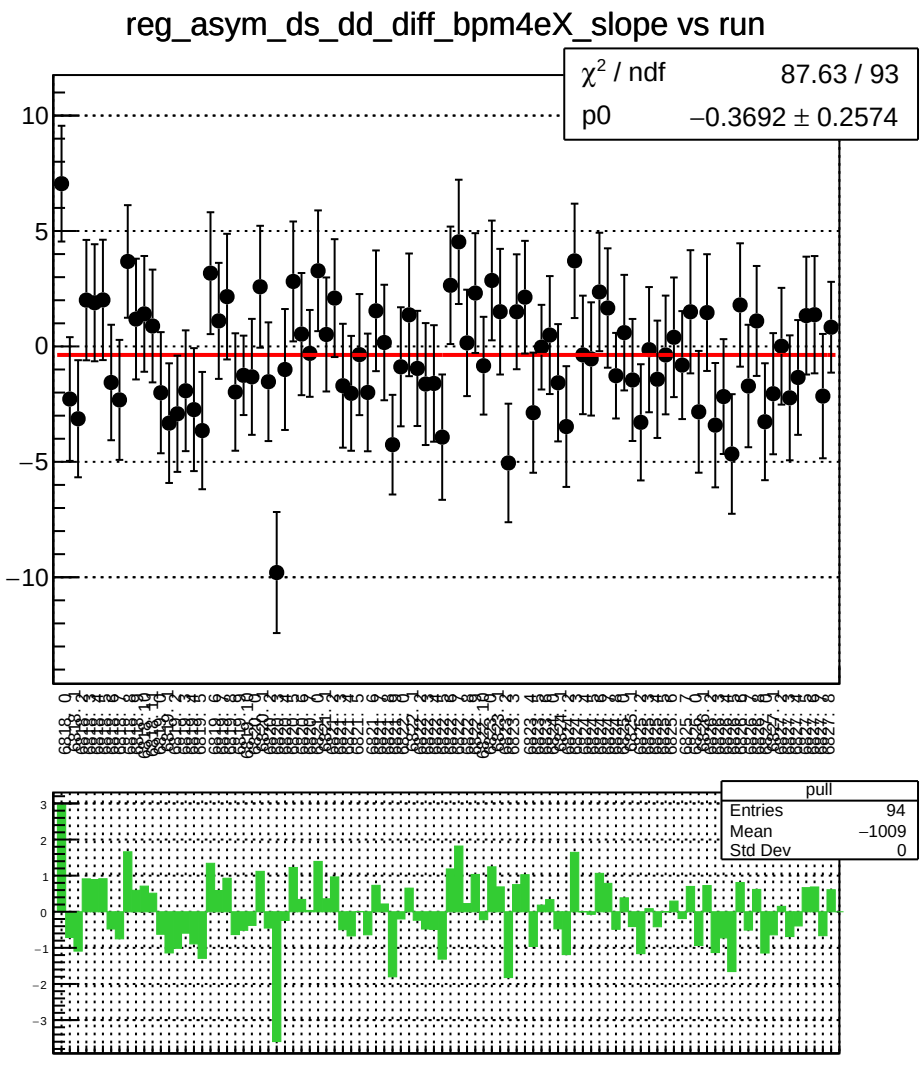

pull1D
Entries 94
Mean −0.0008161
Std Dev 0.9344

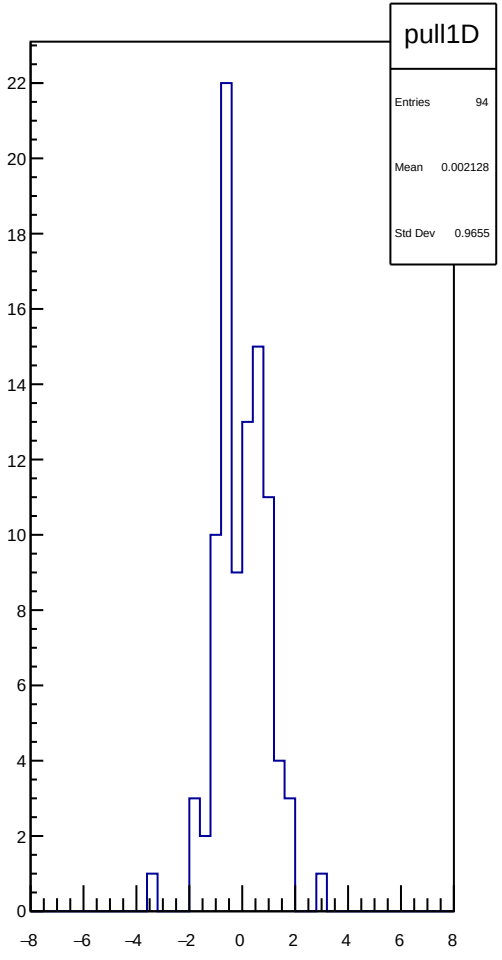

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.02 / 93
p0 0.5239 ± 0.2754
pull
Entries 94
Mean −610.1
Std Dev 0

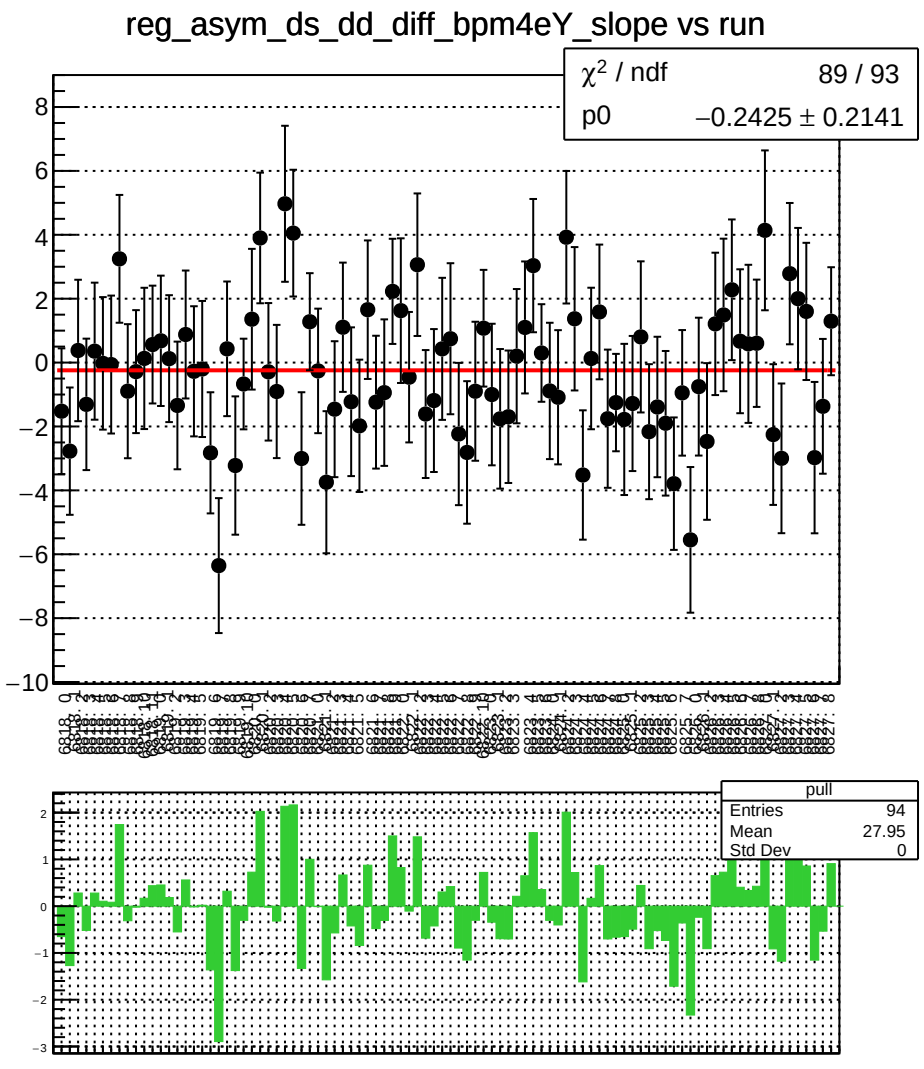

pull1D
Entries 94
Mean −0.003959
Std Dev 0.9566

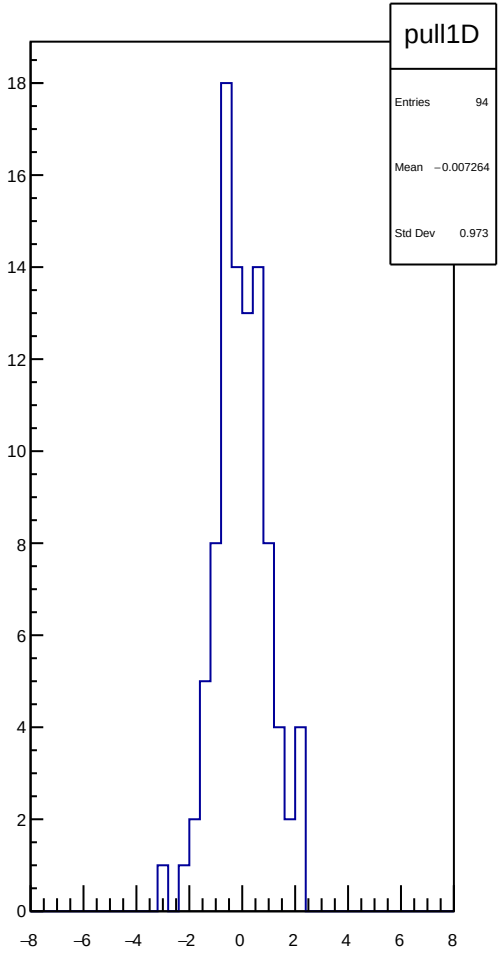

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 87.05 / 93
p0 0.1433 ± 0.1854
pull
Entries 94
Mean −125.7
Std Dev 0

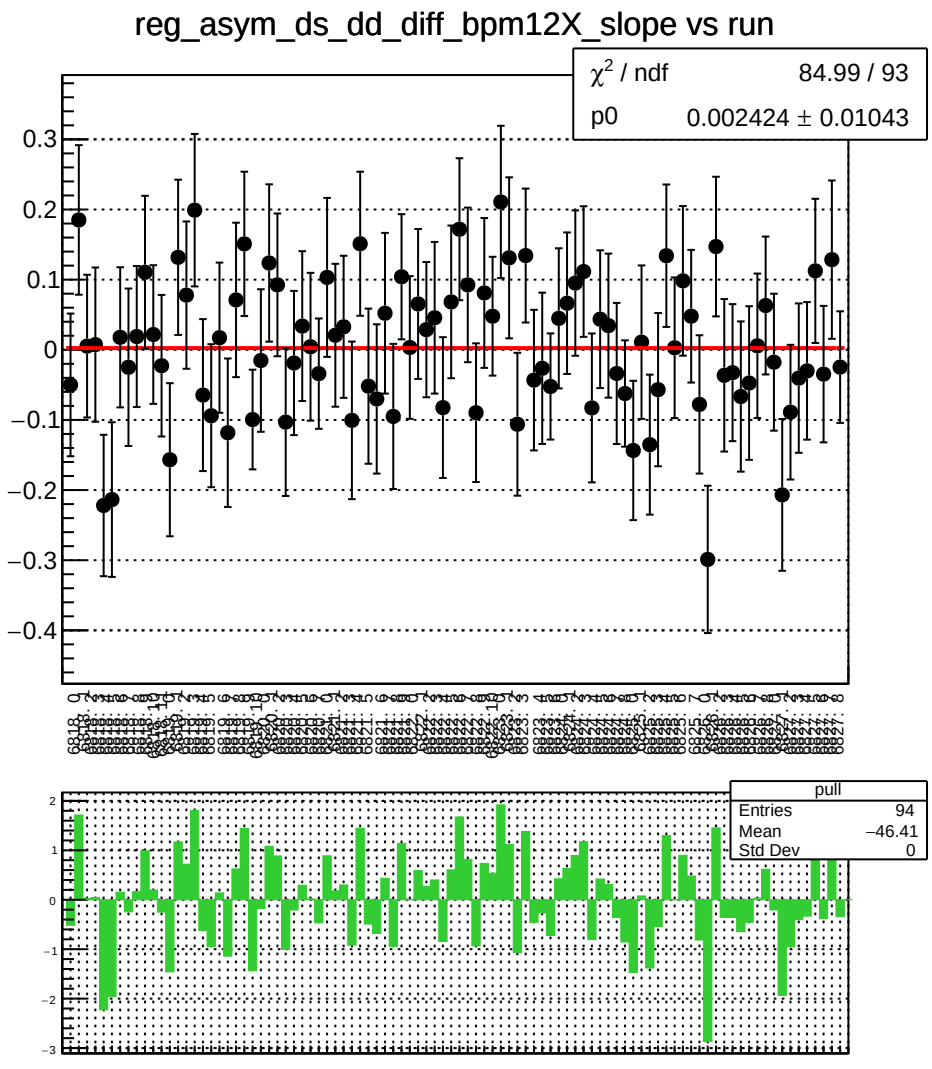

pull1D
Entries 94
Mean 0.00809
Std Dev 0.9623

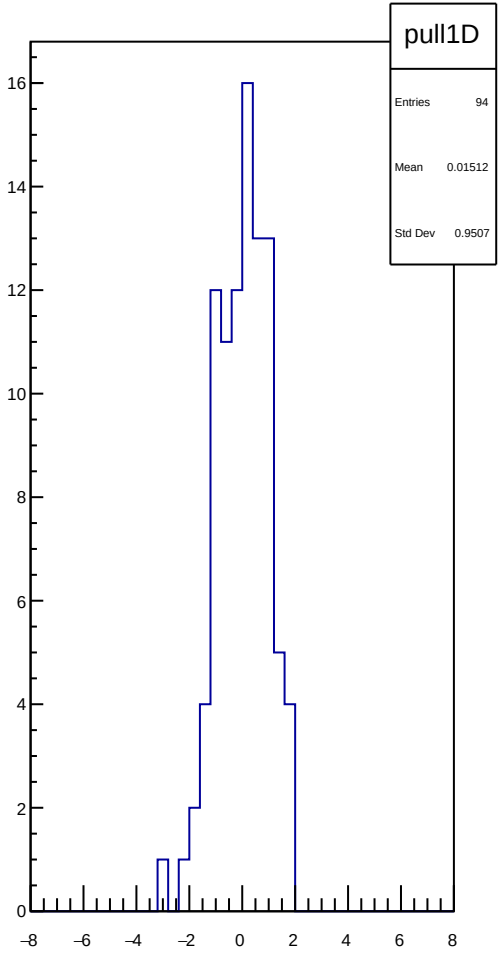

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.63 / 93
p0 −0.3692 ± 0.2574
pull
Entries 94
Mean −1009
Std Dev 0

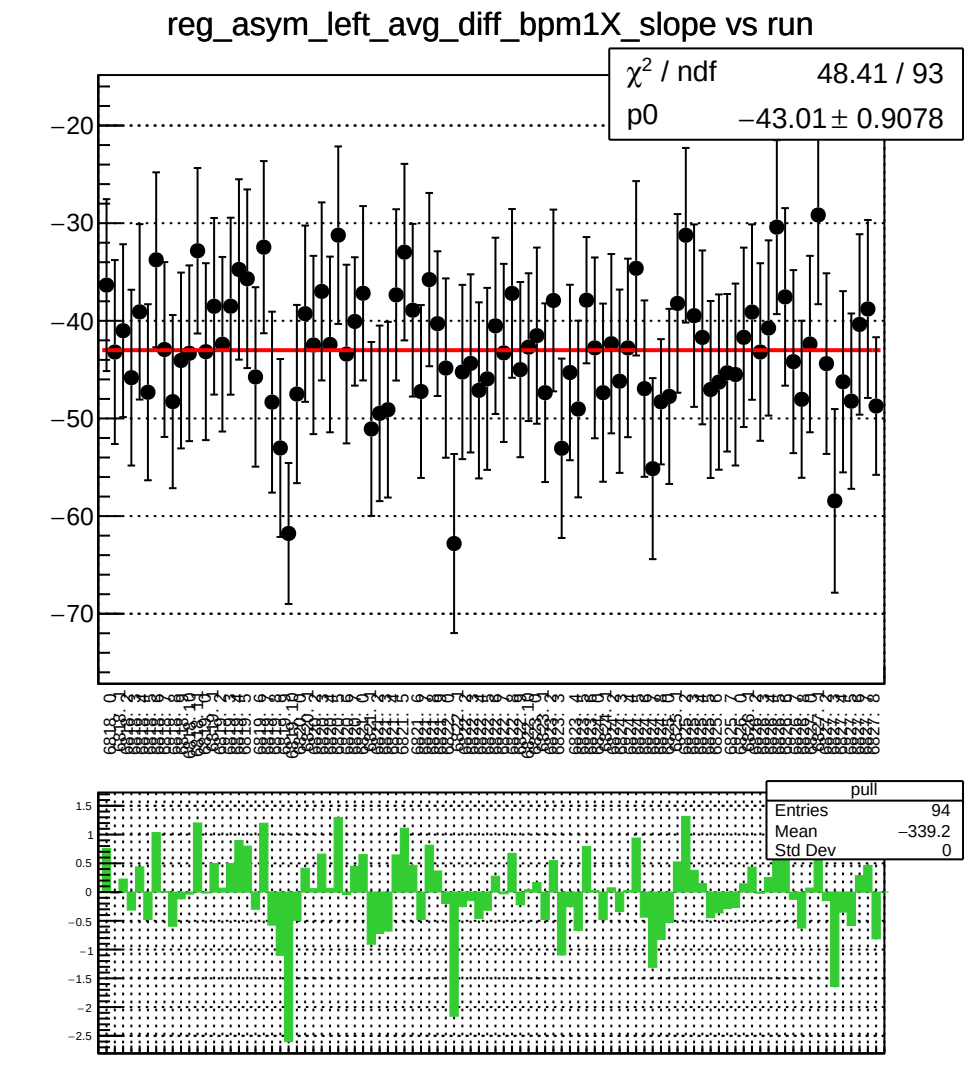

pull1D
Entries 94
Mean 0.002128
Std Dev 0.9655

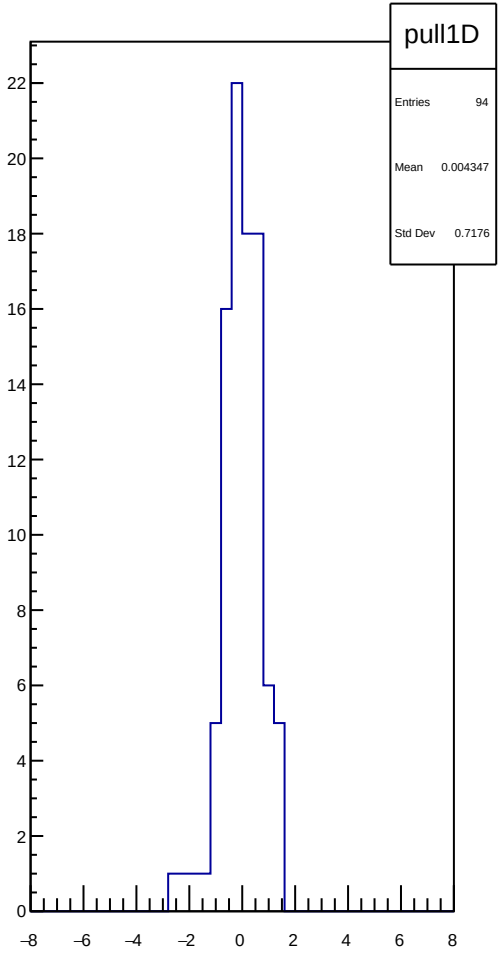

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 89 / 93
p0 −0.2425 ± 0.2141
pull
Entries 94
Mean 27.95
Std Dev 0

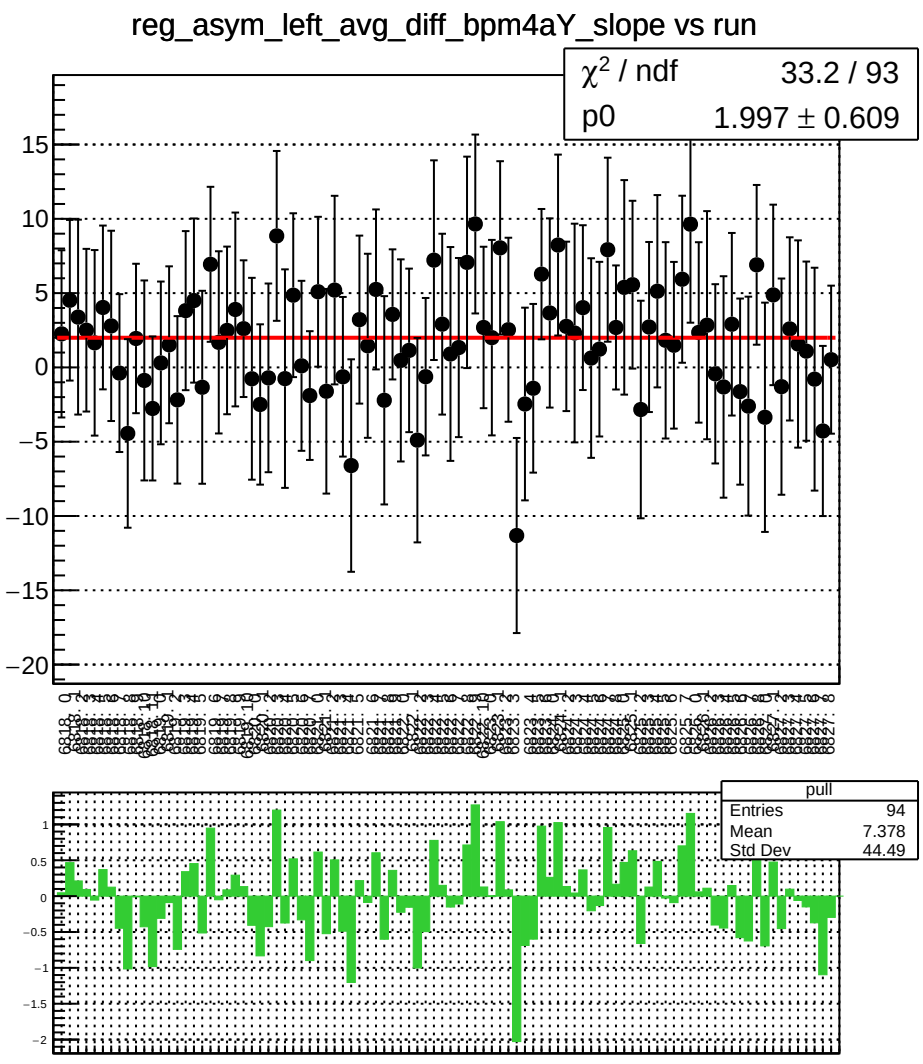

pull1D
Entries 94
Mean −0.007264
Std Dev 0.973

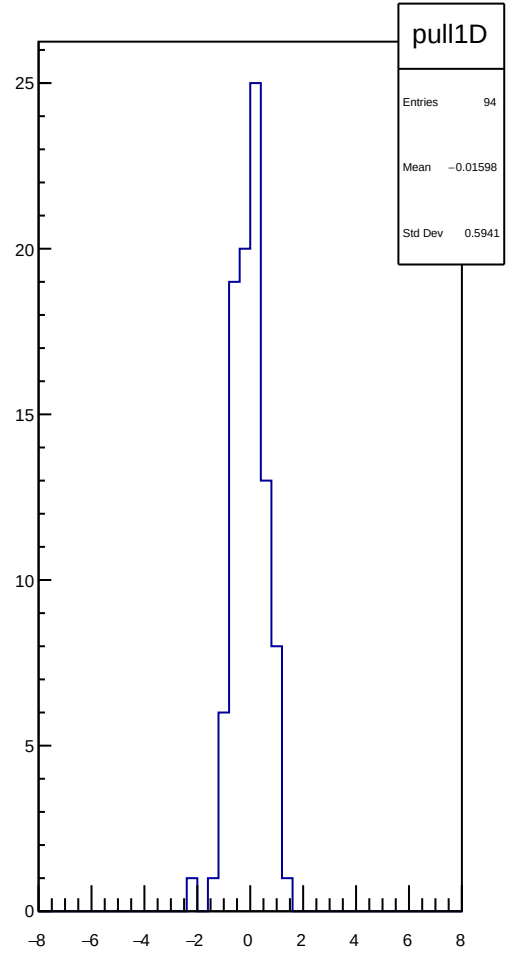

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 84.99 / 93
p0 0.002424 ± 0.01043
pull
Entries 94
Mean −46.41
Std Dev 0

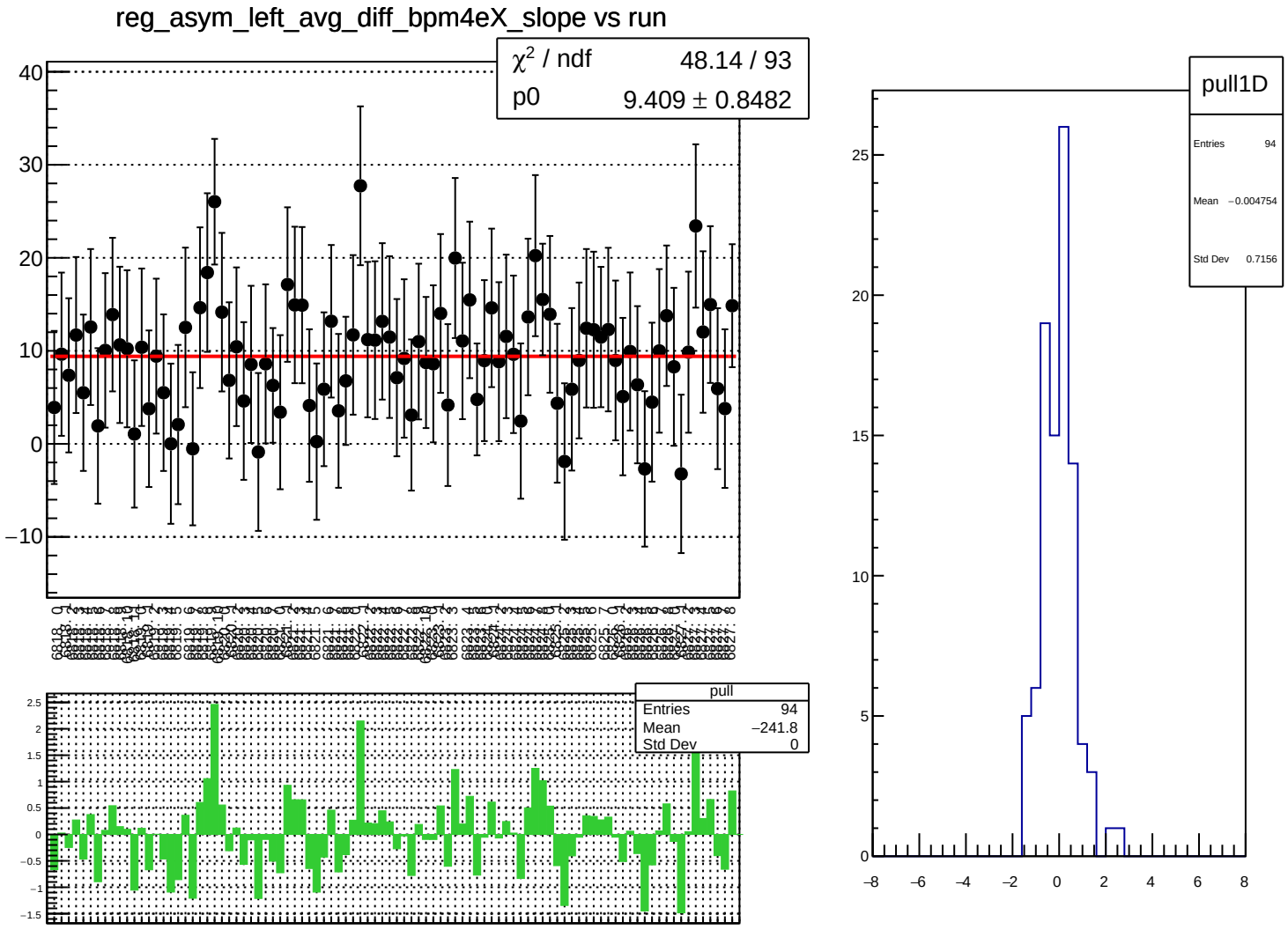

pull1D
Entries 94
Mean 0.01512
Std Dev 0.9507

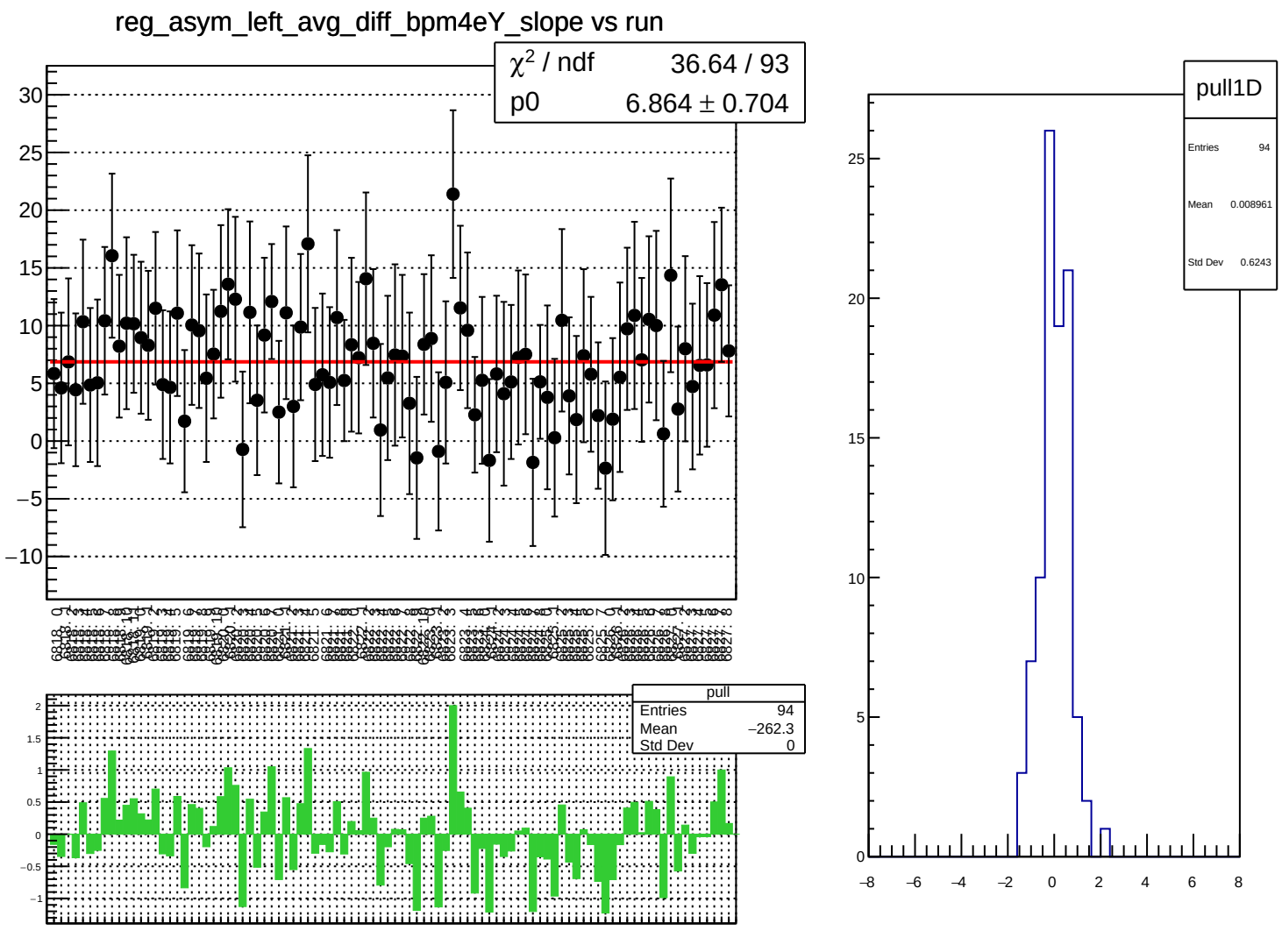

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 48.41 / 93
p0 −43.01 ± 0.9078
pull
Entries 94
Mean −339.2
Std Dev 0

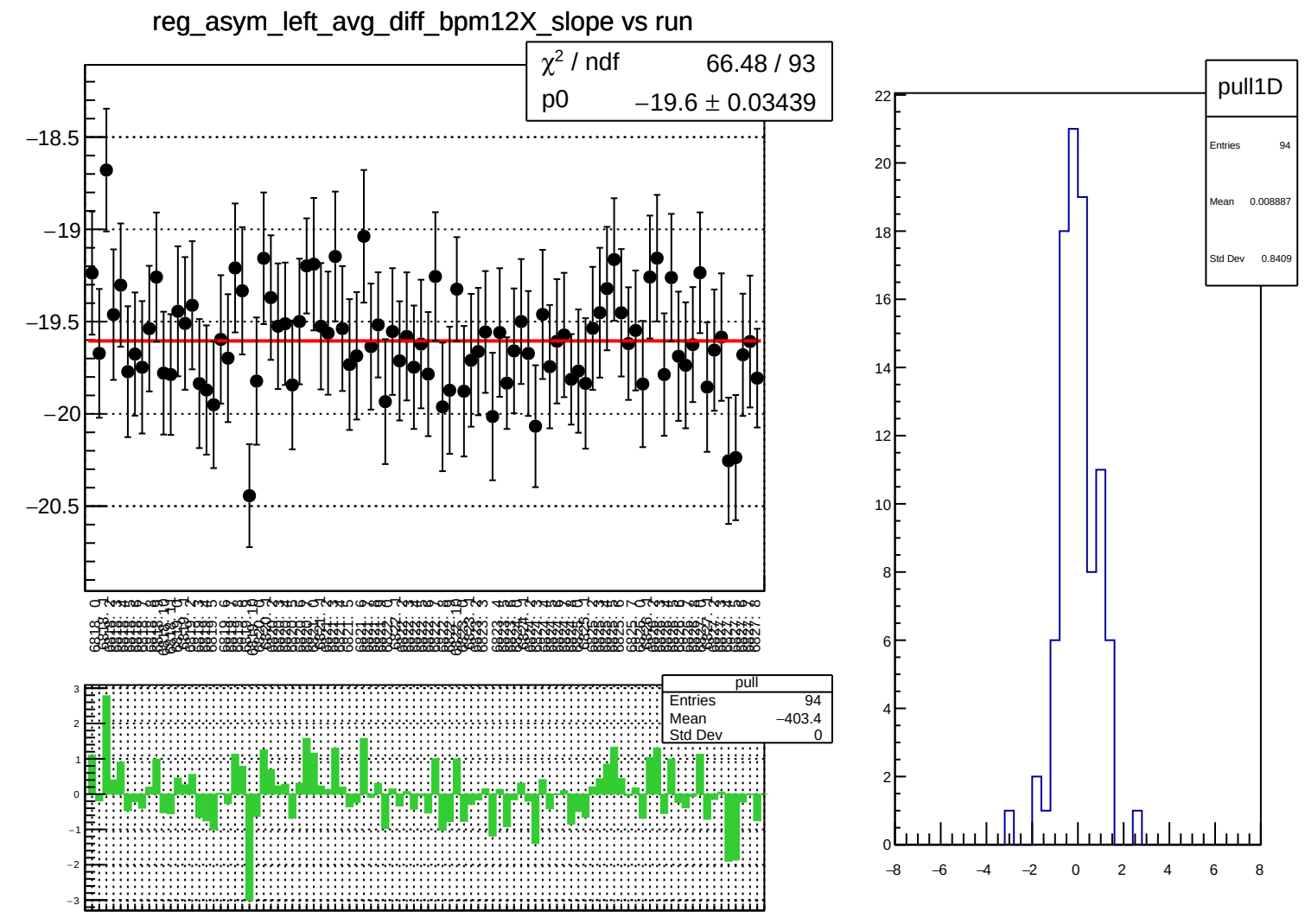

pull1D
Entries 94
Mean 0.004347
Std Dev 0.7176

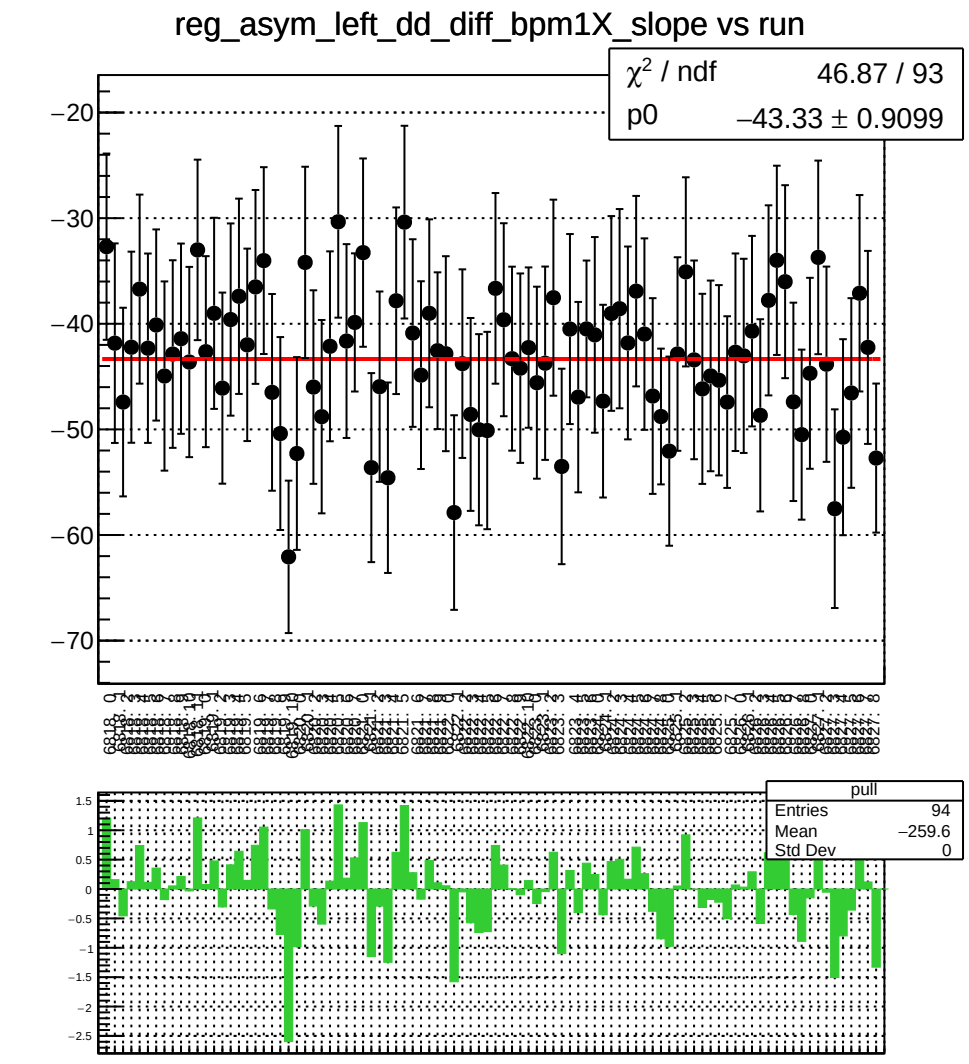

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 33.2 / 93
p0 1.997 ± 0.609
pull
Entries 94
Mean 7.378
Std Dev 44.49

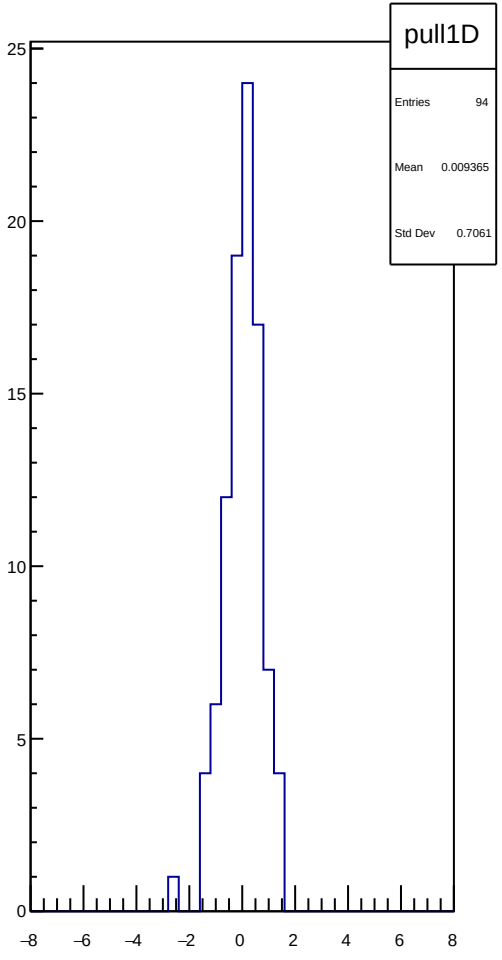

pull1D
Entries 94
Mean −0.01598
Std Dev 0.5941

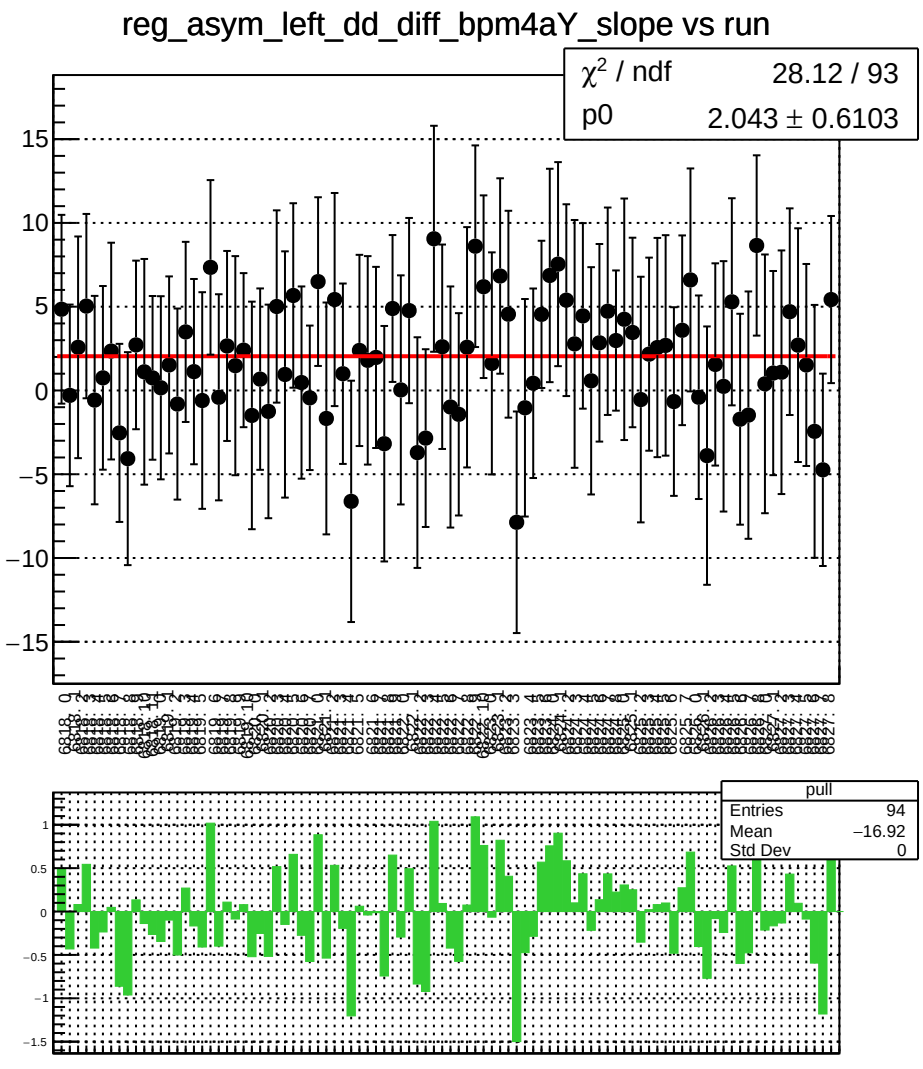

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.14 / 93
p0 9.409 ± 0.8482
pull
Entries 94
Mean −241.8
Std Dev 0
pull1D
Entries 94
Mean −0.004754
Std Dev 0.7156

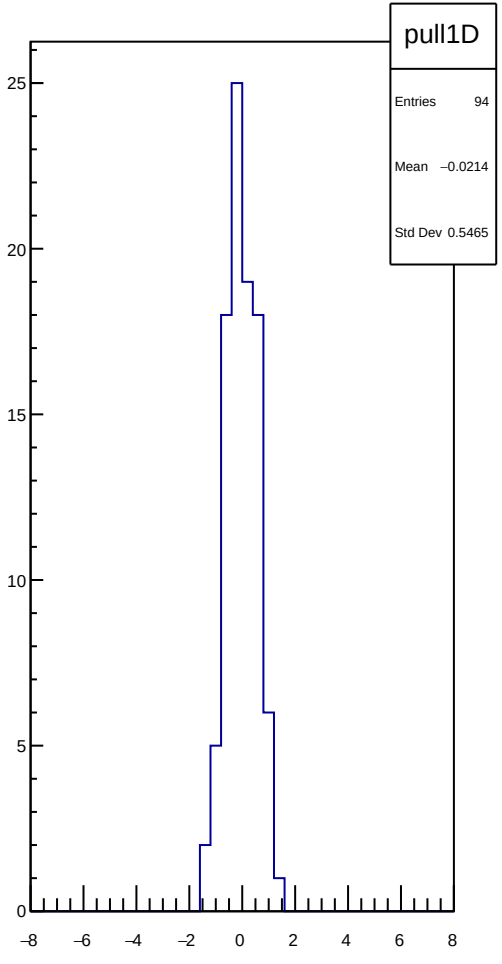

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.64 / 93
p0 6.864 ± 0.704
pull
Entries 94
Mean −262.3
Std Dev 0
pull1D
Entries 94
Mean 0.008961
Std Dev 0.6243

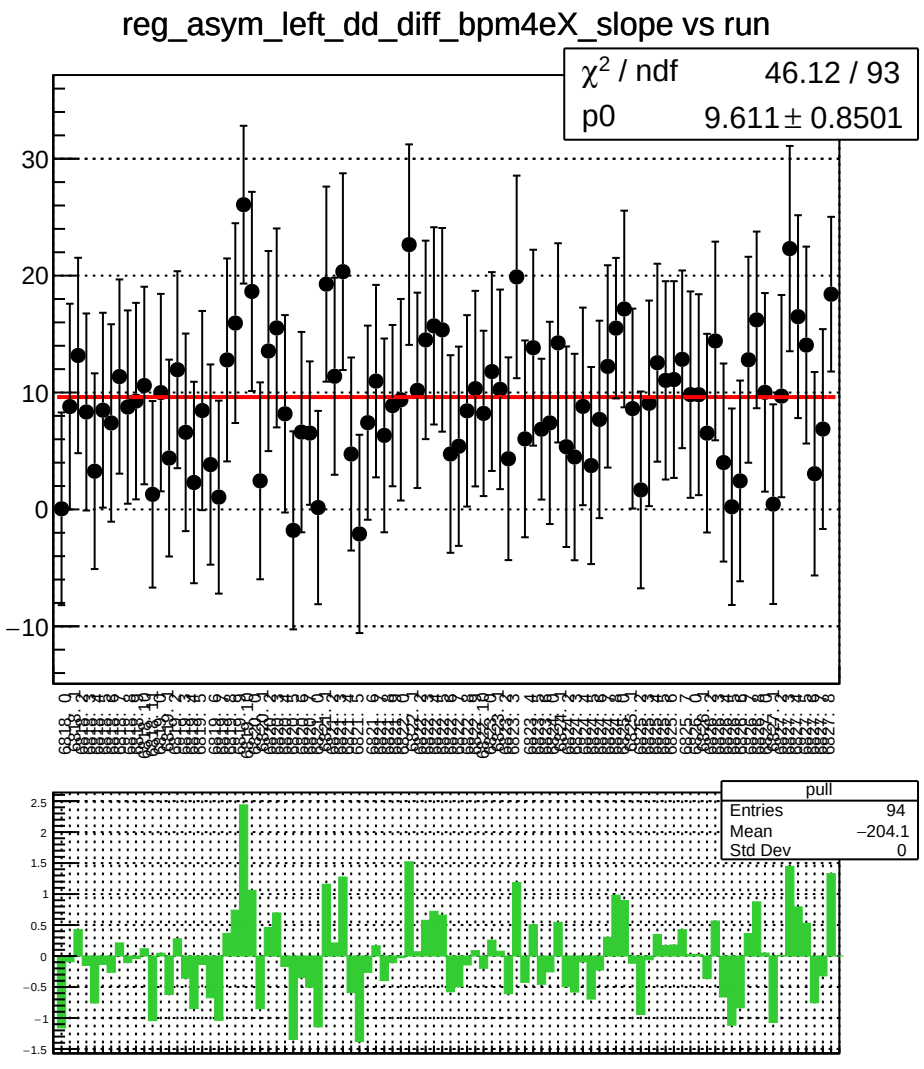

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 66.48 / 93
p0 −19.6 ± 0.03439
−18.5
−19
−19.5
−20
−20.5
pull
Entries 94
Mean −403.4
Std Dev 0
pull1D
Entries 94
Mean 0.008887
Std Dev 0.8409

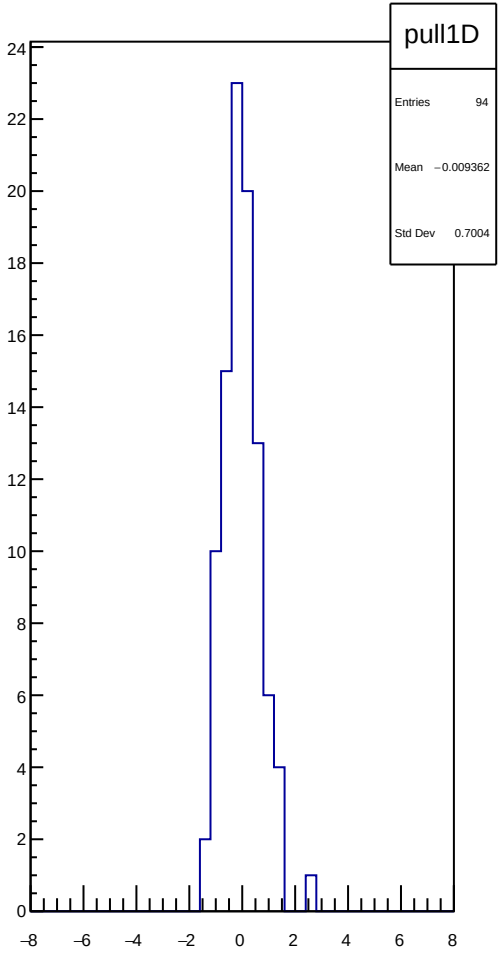

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 46.87 / 93
p0 −43.33 ± 0.9099
pull
Entries 94
Mean −259.6
Std Dev 0

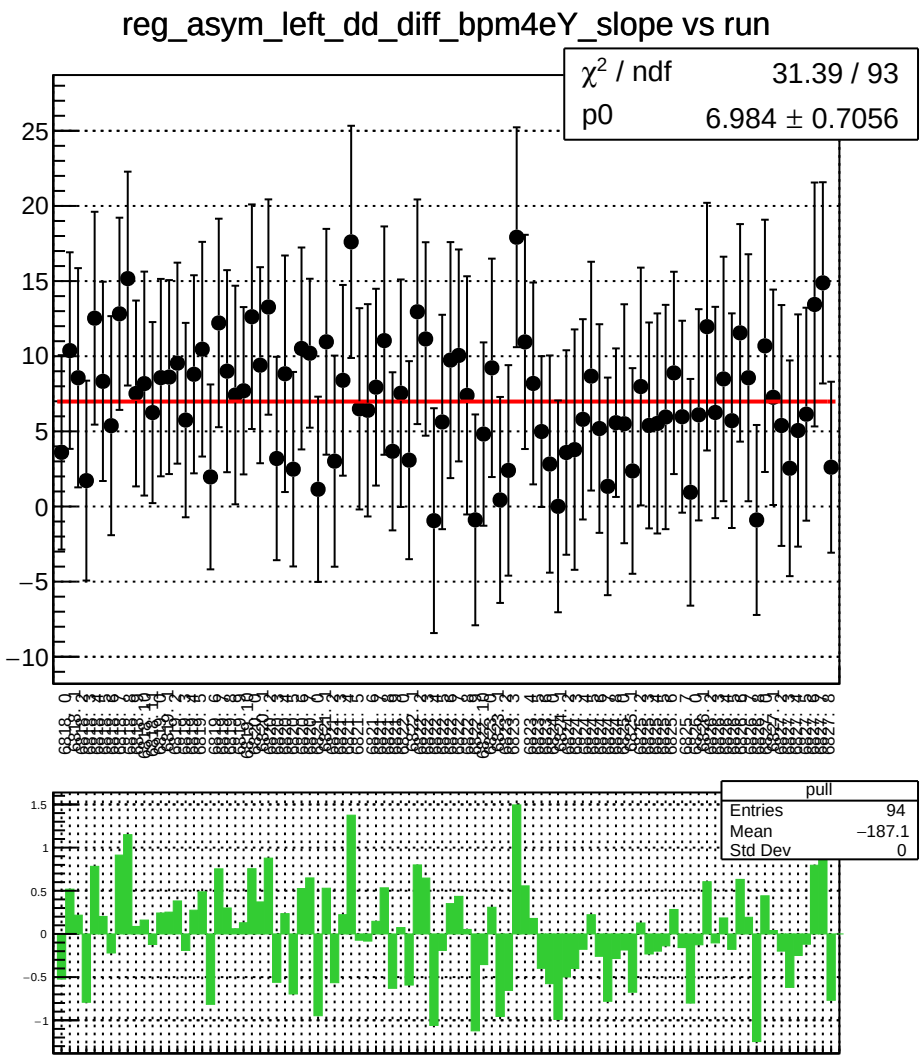

pull1D
Entries 94
Mean 0.009365
Std Dev 0.7061

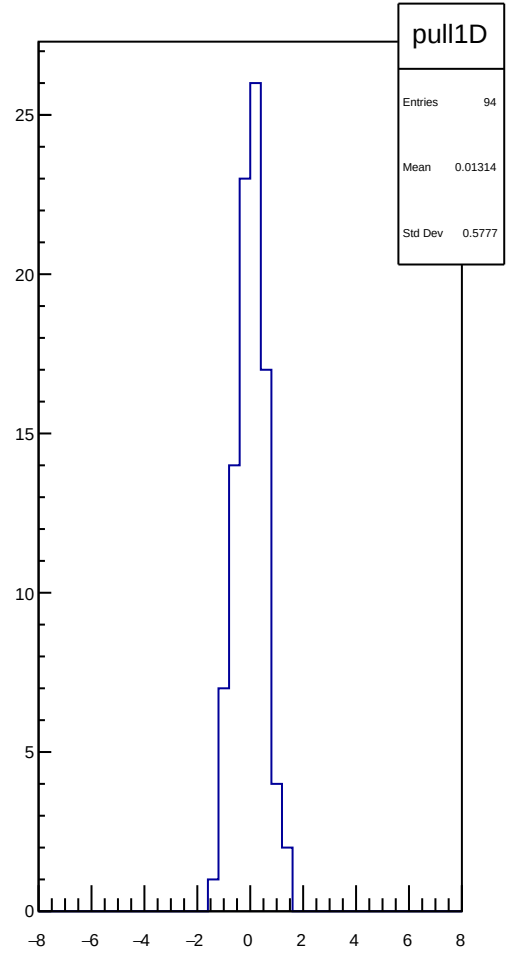

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 28.12 / 93
p0 2.043 ± 0.6103
pull
Entries 94
Mean −16.92
Std Dev 0

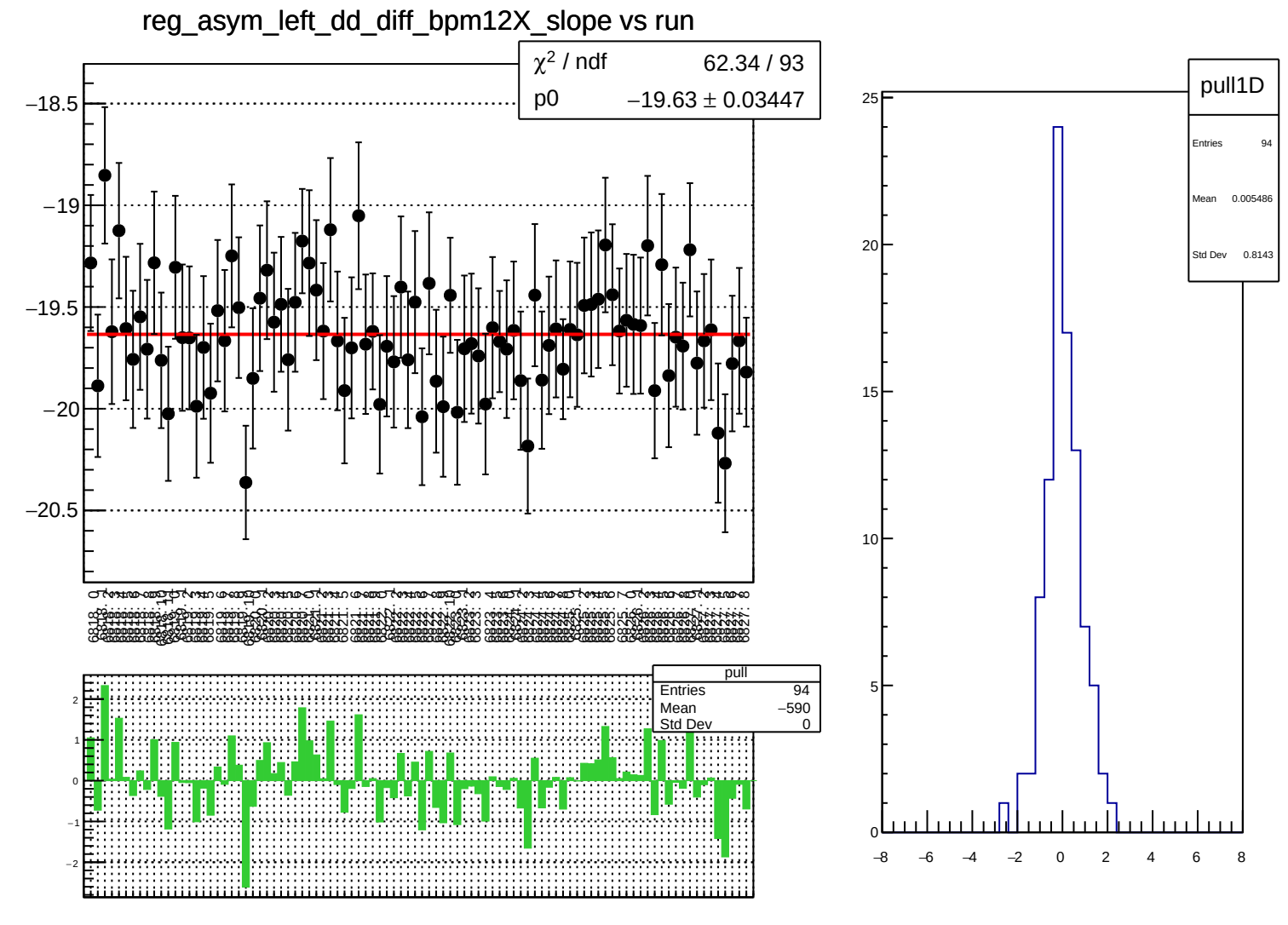

pull1D
Entries 94
Mean −0.0214
Std Dev 0.5465

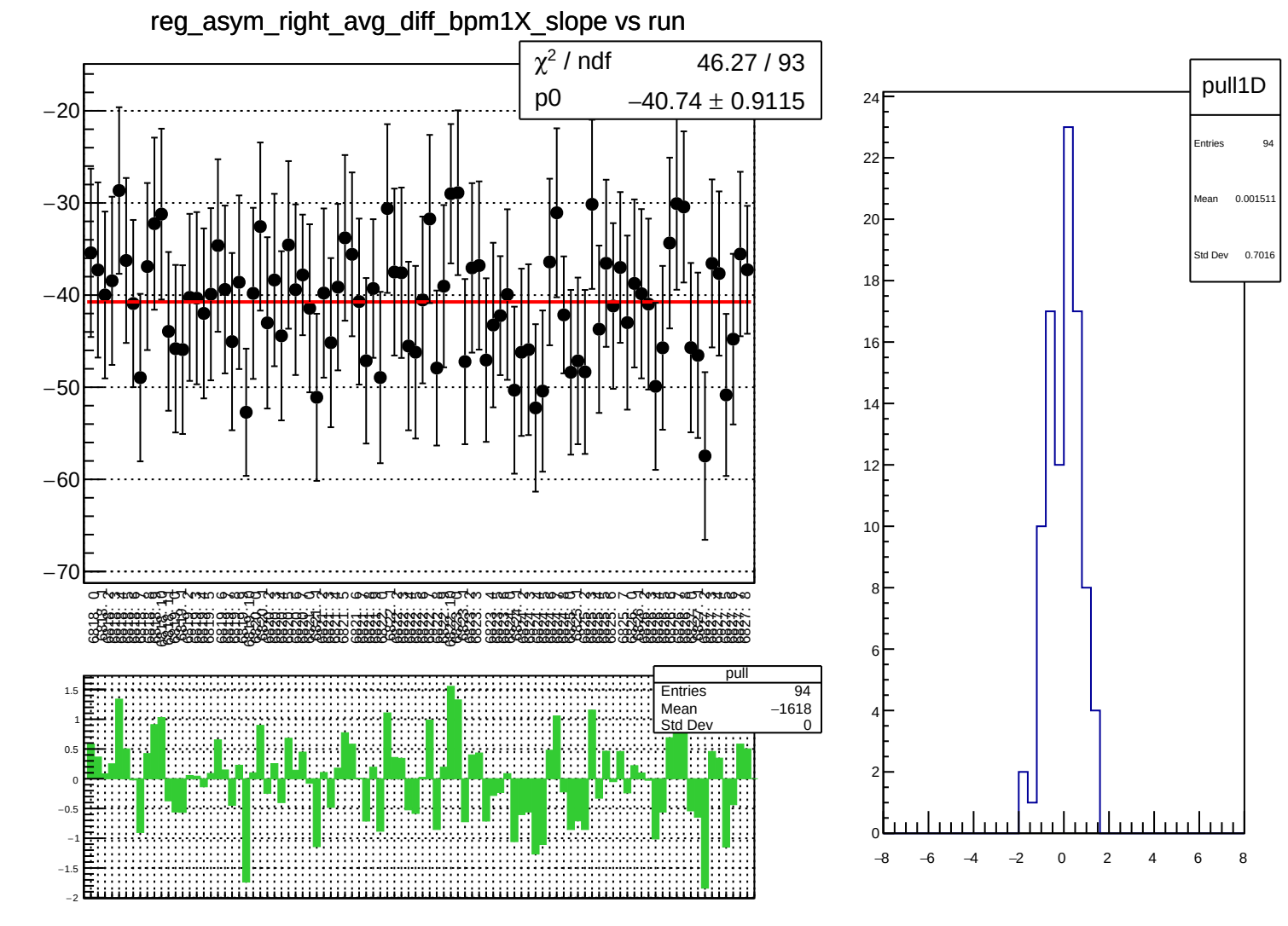

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 46.12 / 93
p0 9.611 ± 0.8501
pull
Entries 94
Mean −204.1
Std Dev 0

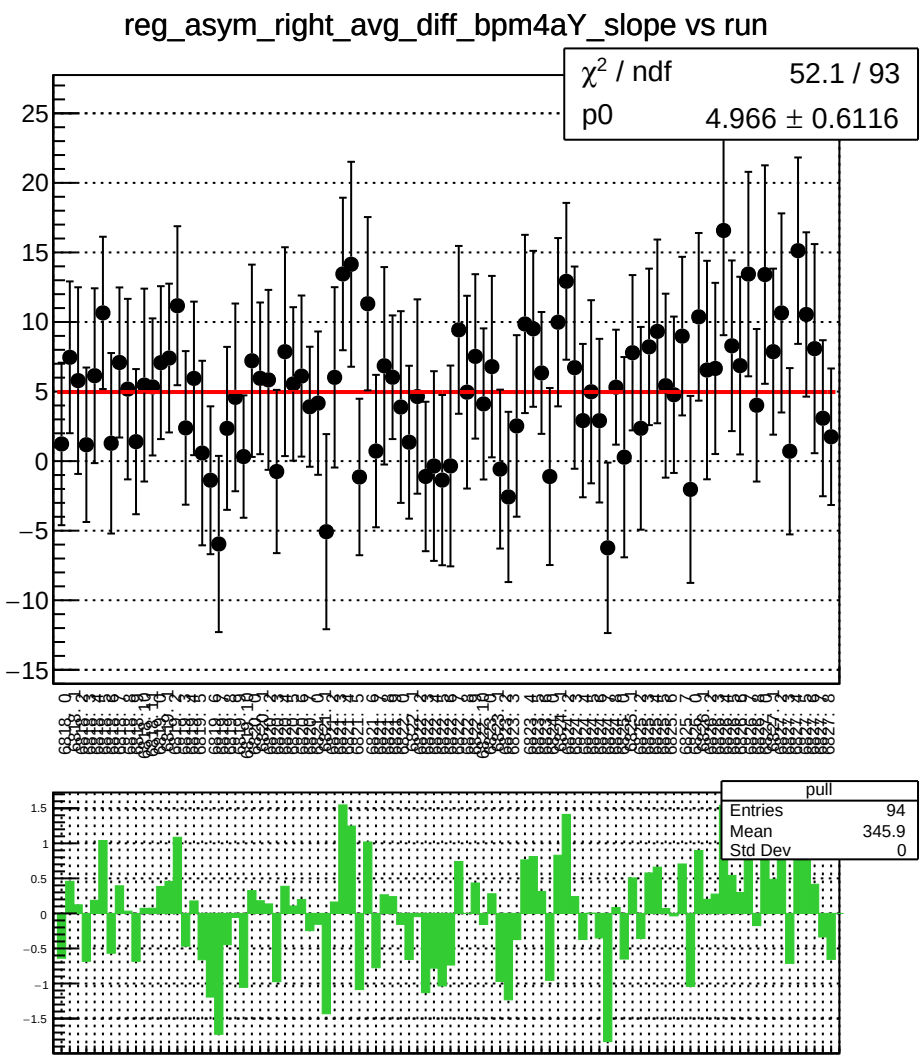

pull1D
Entries 94
Mean −0.009362
Std Dev 0.7004

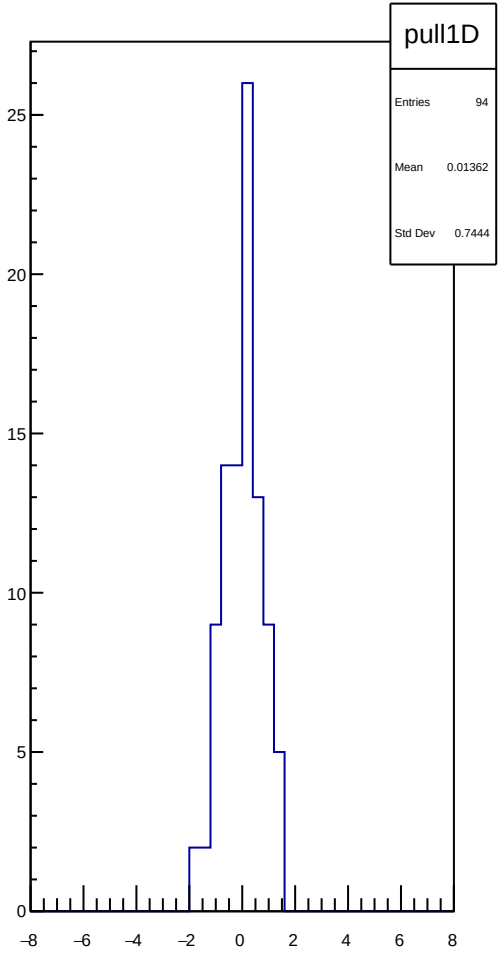

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.39 / 93
p0 6.984 ± 0.7056
pull
Entries 94
Mean −187.1
Std Dev 0

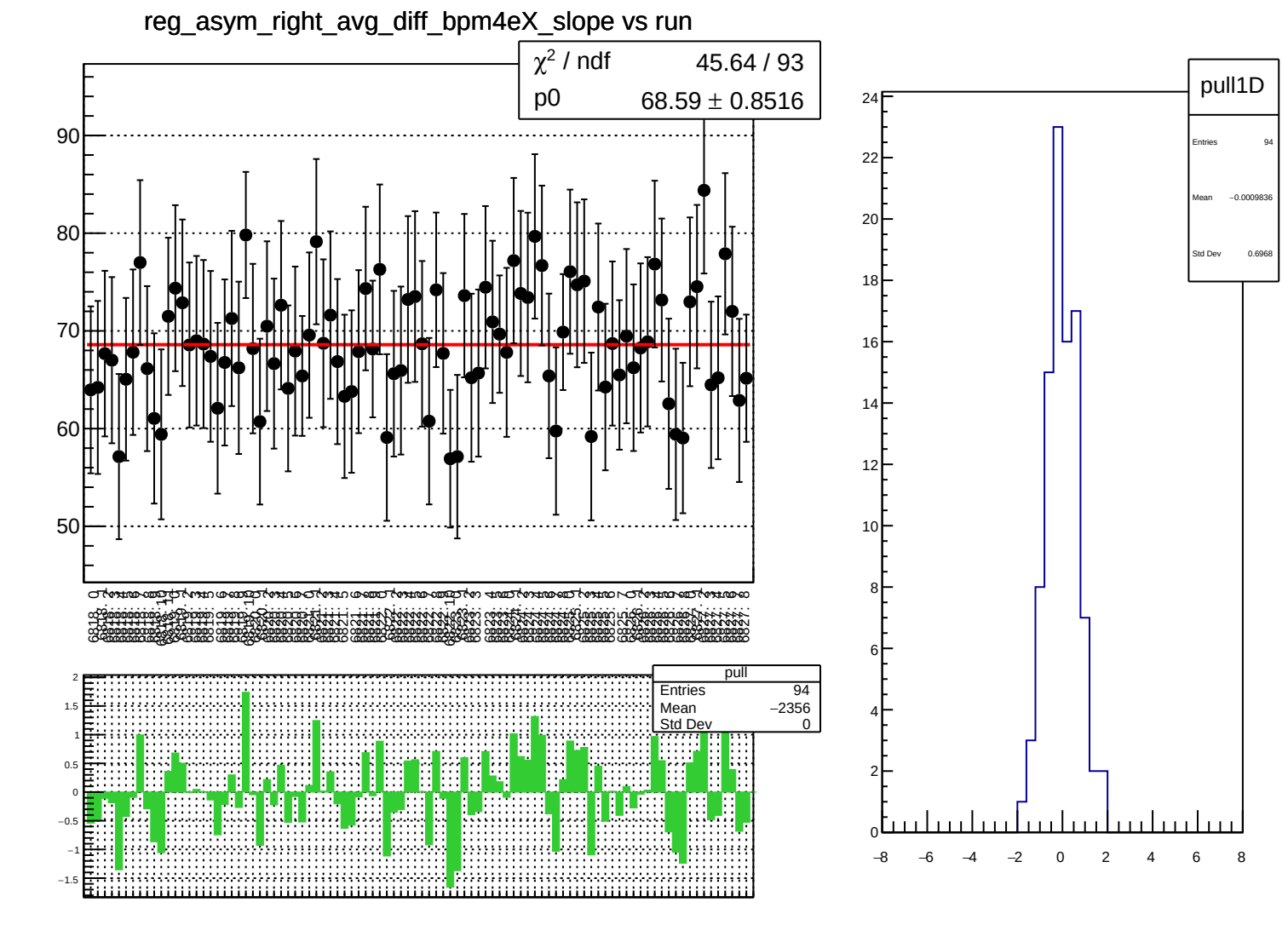

pull1D
Entries 94
Mean 0.01314
Std Dev 0.5777

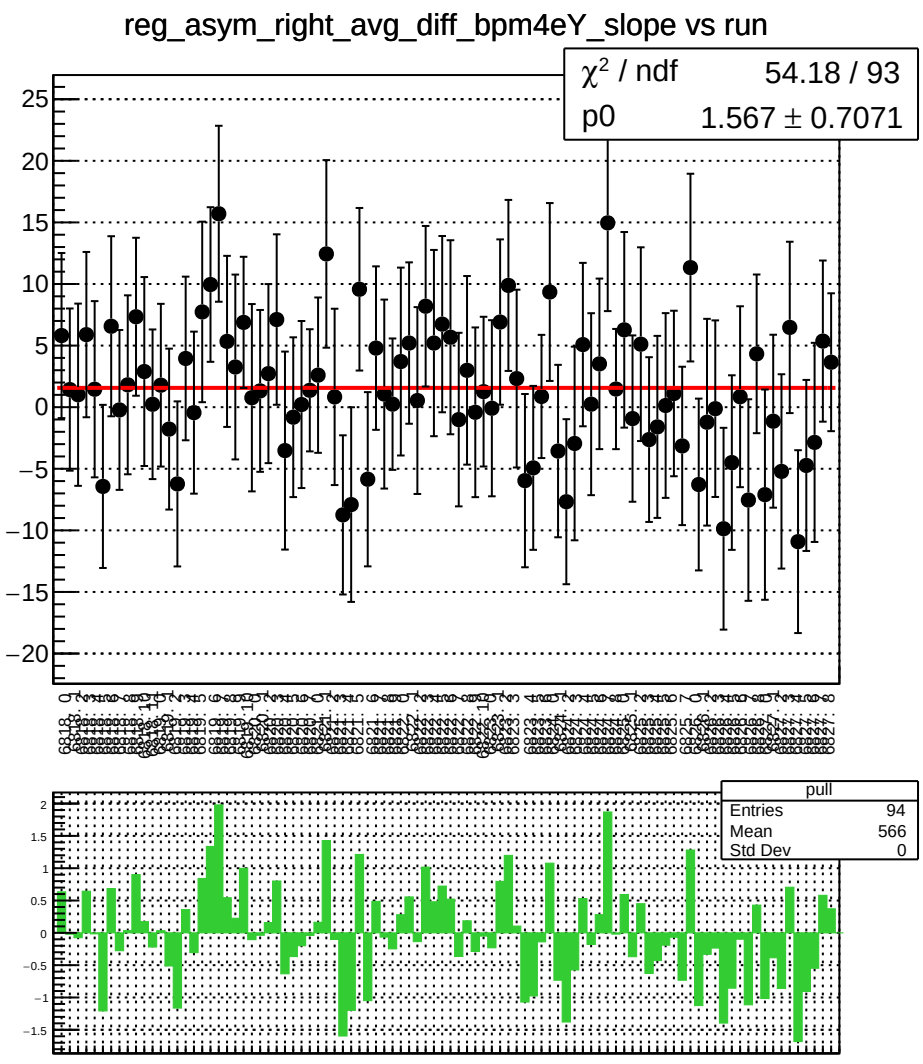

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 62.34 / 93
p0 −19.63 ± 0.03447
−18.5
−19
−19.5
−20
−20.5
pull
Entries 94
Mean −590
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.005486
Std Dev 0.8143
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

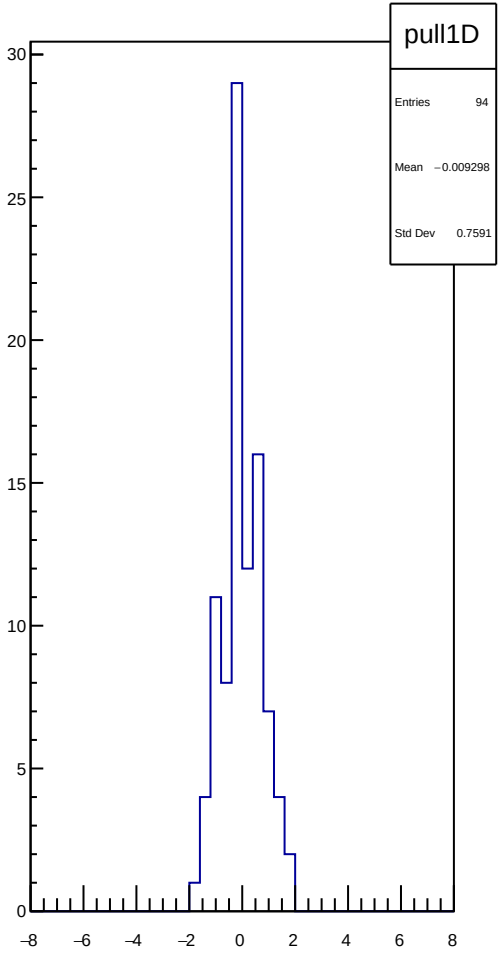

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 46.27 / 93
p0 −40.74 ± 0.9115
pull
Entries 94
Mean −1618
Std Dev 0
pull1D
Entries 94
Mean 0.001511
Std Dev 0.7016

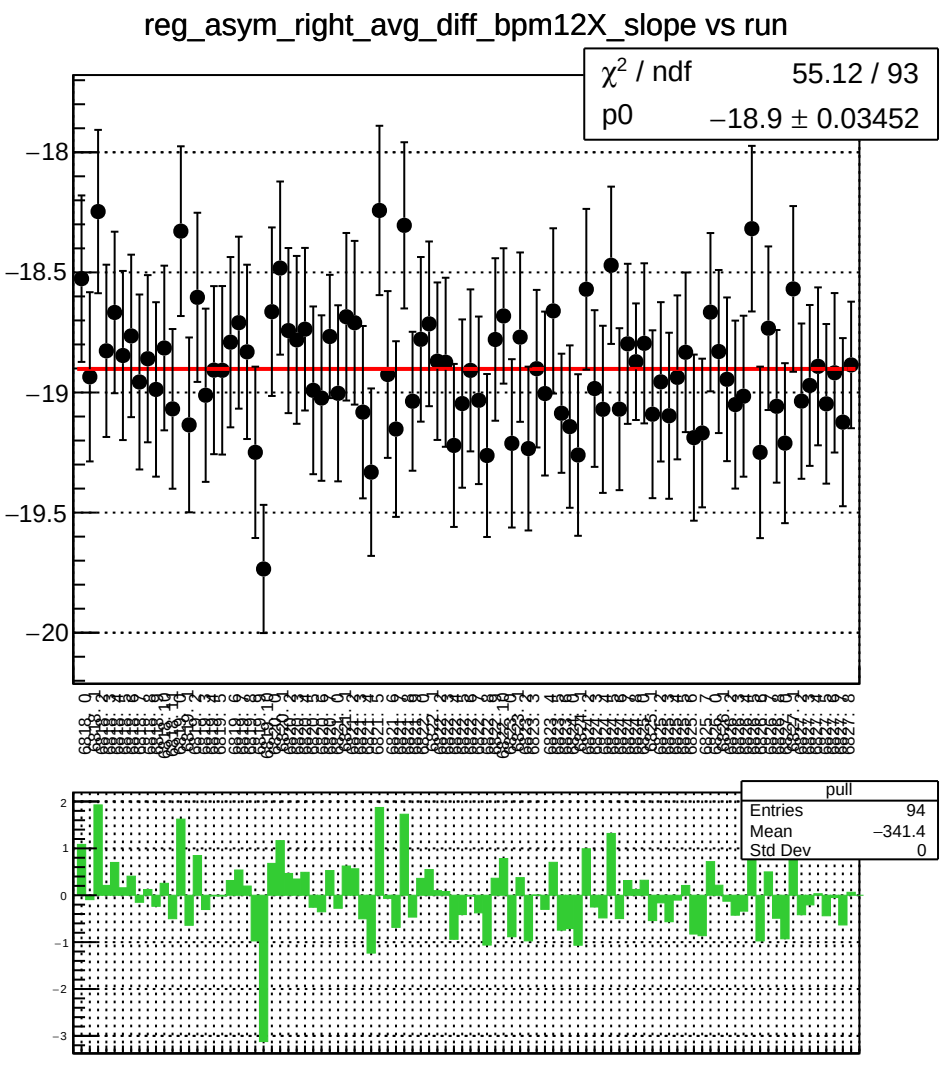

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.1 / 93
p0 4.966 ± 0.6116
pull
Entries 94
Mean 345.9
Std Dev 0

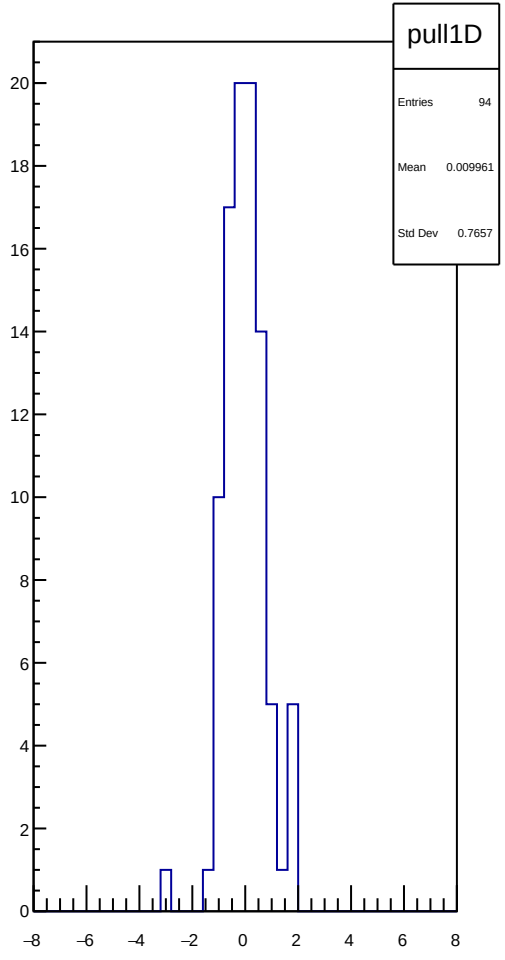

pull1D
Entries 94
Mean 0.01362
Std Dev 0.7444

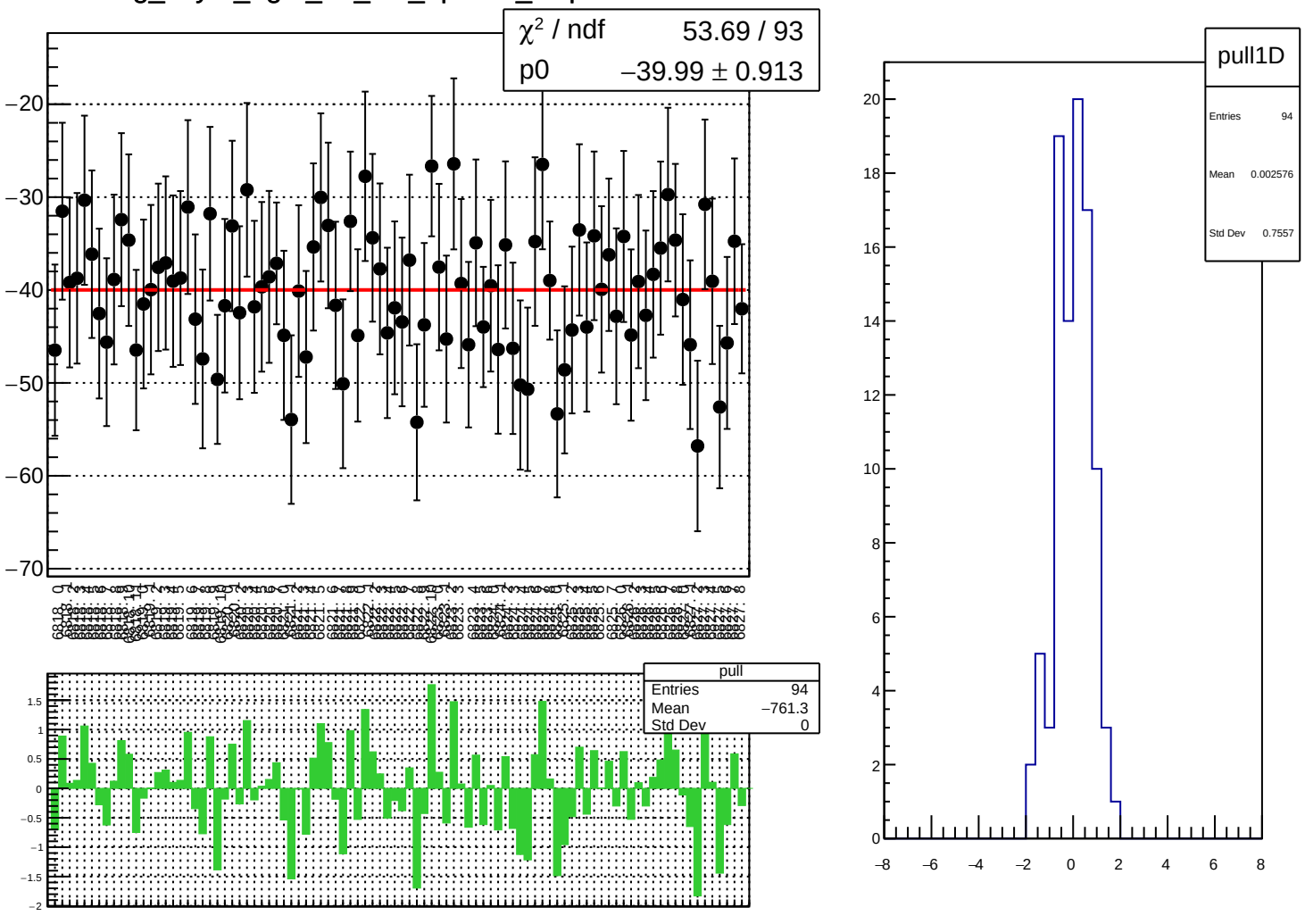

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 45.64 / 93
p0 68.59 ± 0.8516
pull
Entries 94
Mean −2356
Std Dev 0
pull1D
Entries 94
Mean −0.0009836
Std Dev 0.6968

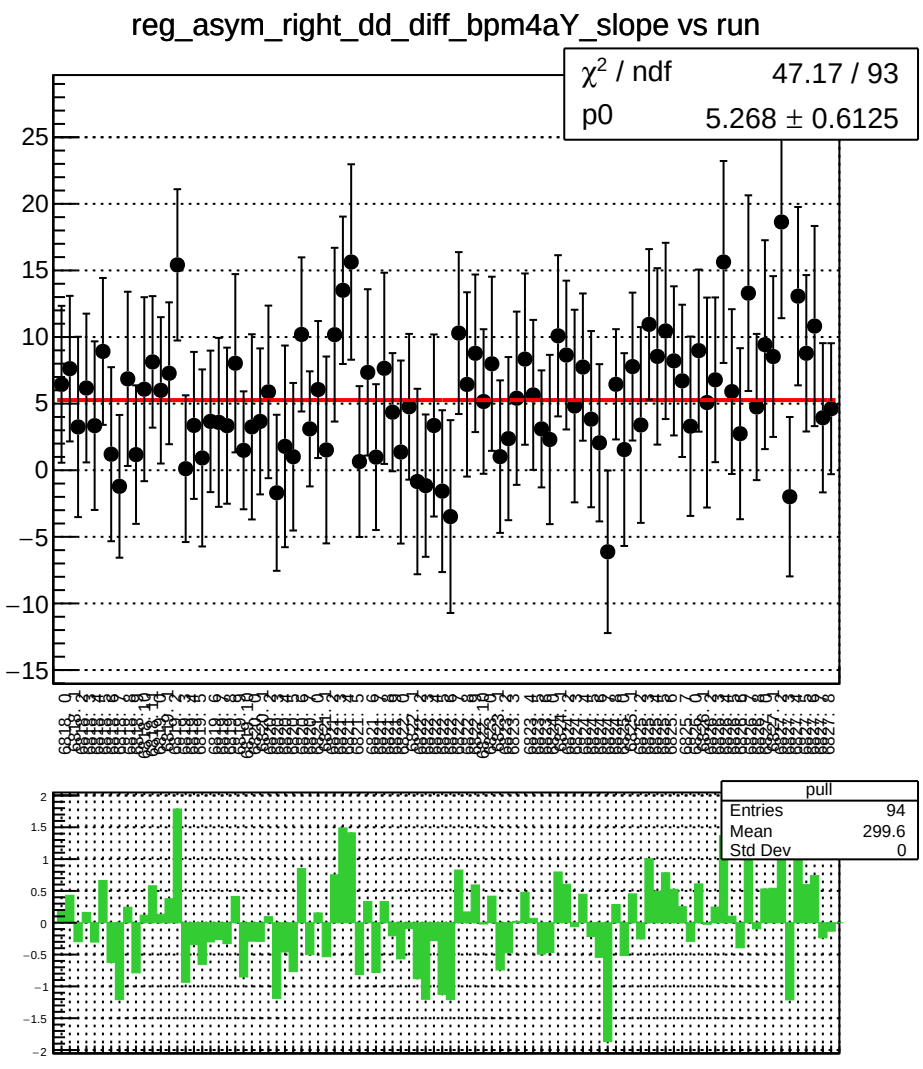

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.18 / 93
p0 1.567 ± 0.7071
pull
Entries 94
Mean 566
Std Dev 0

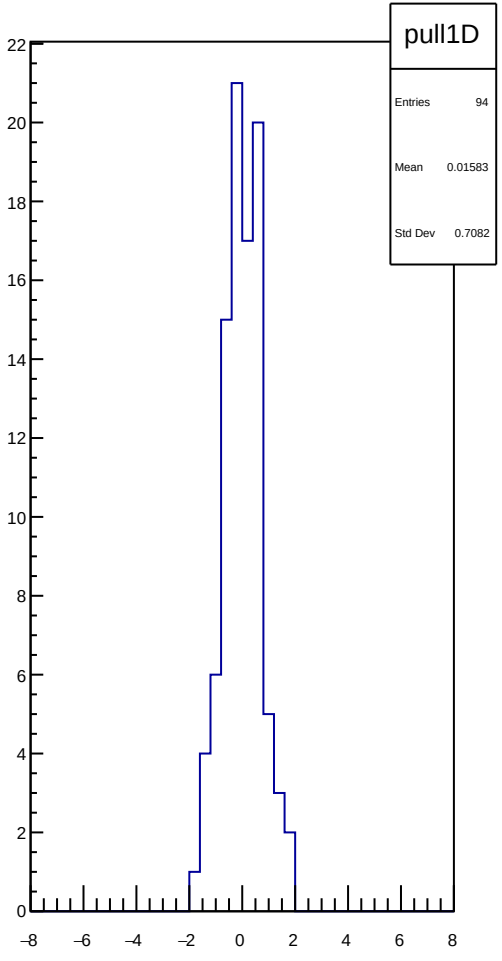

pull1D
Entries 94
Mean −0.009298
Std Dev 0.7591

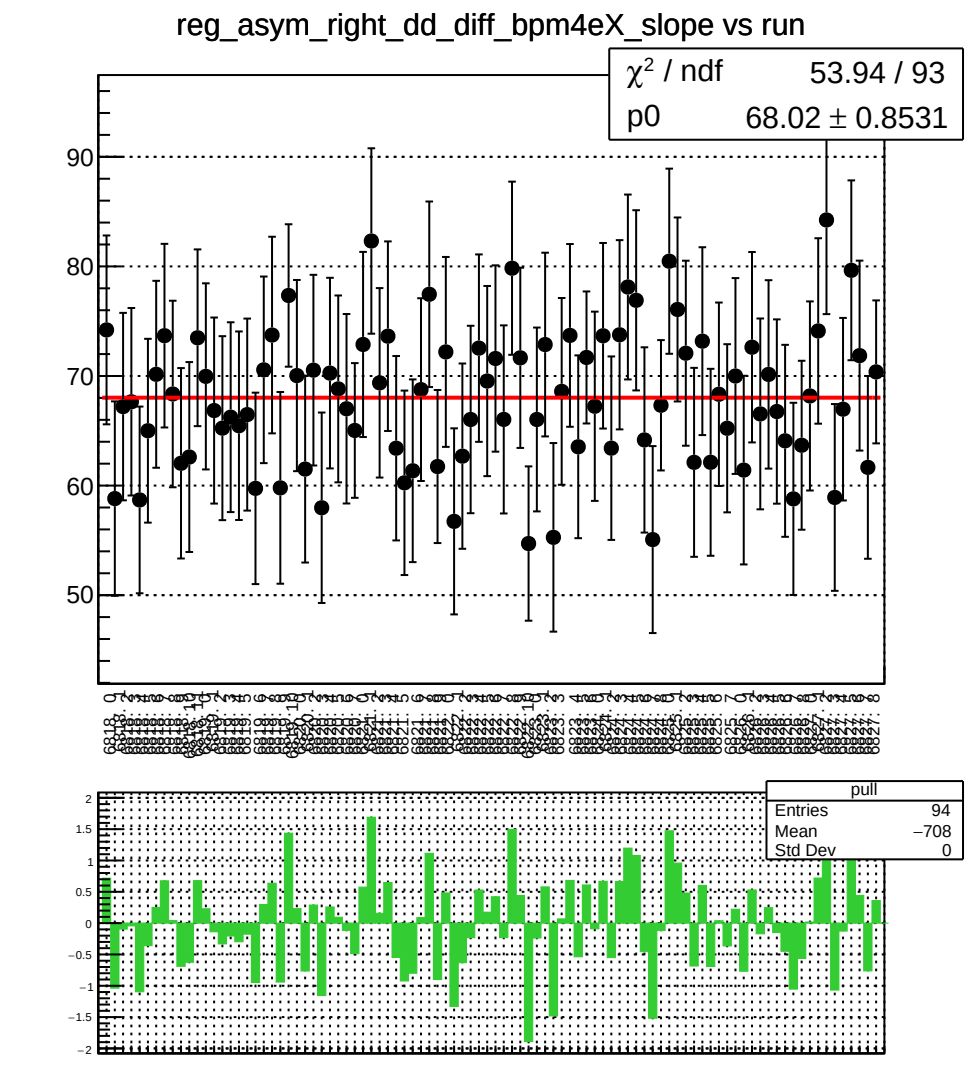

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 55.12 / 93
p0 −18.9 ± 0.03452
−18
−18.5
−19
−19.5
−20
pull
Entries 94
Mean −341.4
Std Dev 0
2
1
0
−1
−2
−3

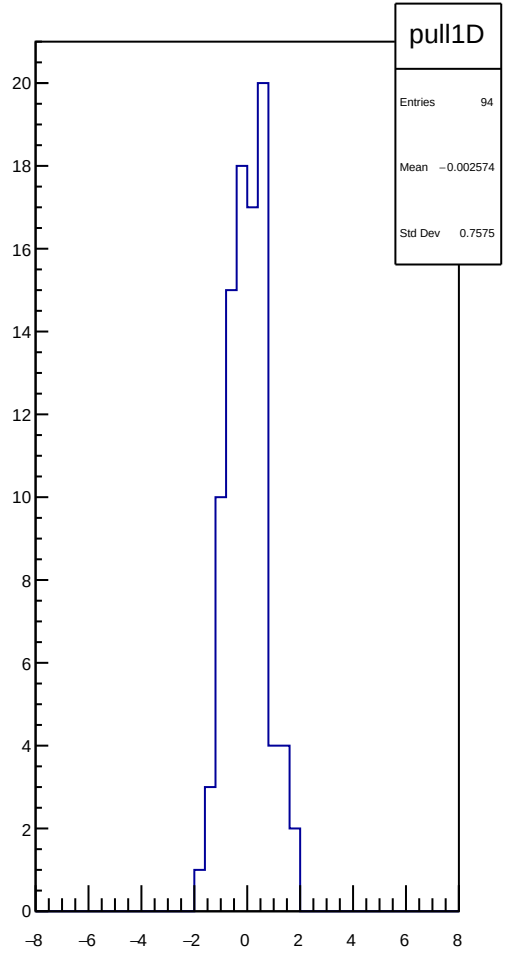

pull1D
Entries 94
Mean 0.009961
Std Dev 0.7657
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

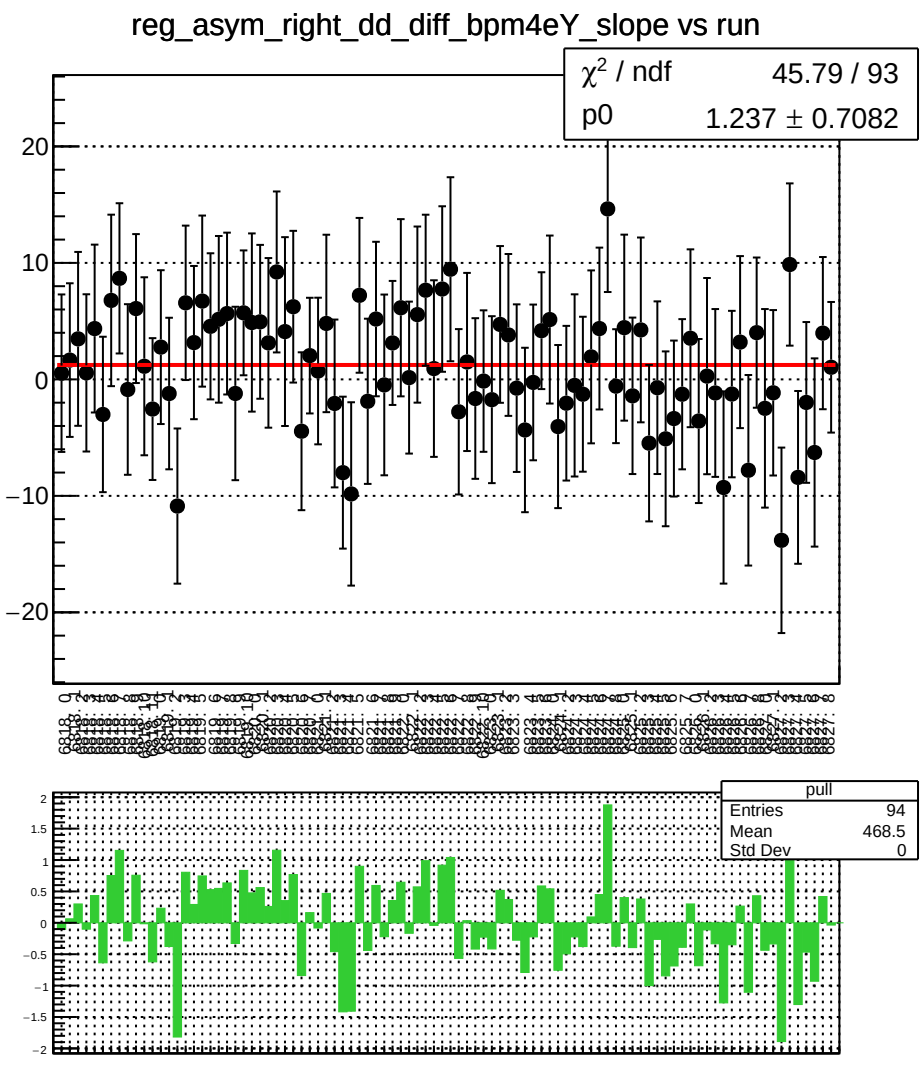

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 53.69 / 93
p0 −39.99 ± 0.913
pull
Entries 94
Mean −761.3
Std Dev 0
pull1D
Entries 94
Mean 0.002576
Std Dev 0.7557

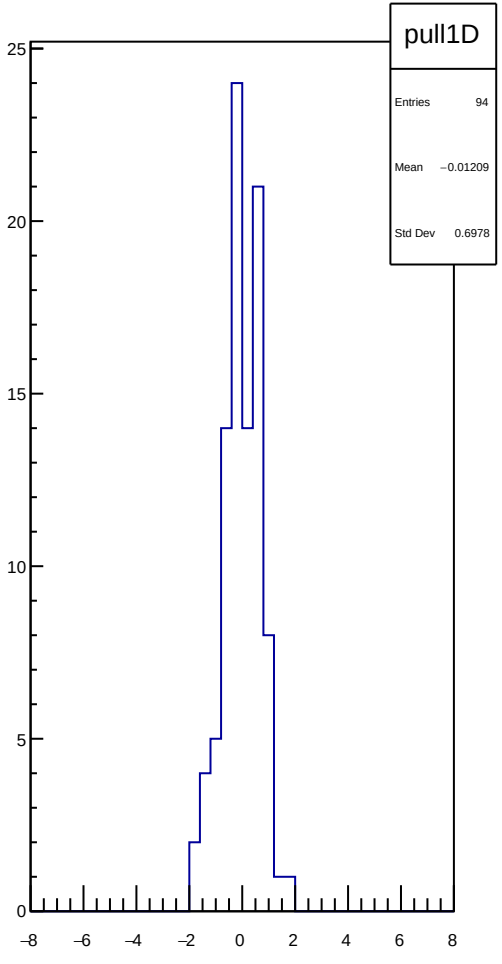

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 47.17 / 93
p0 5.268 ± 0.6125
pull
Entries 94
Mean 299.6
Std Dev 0

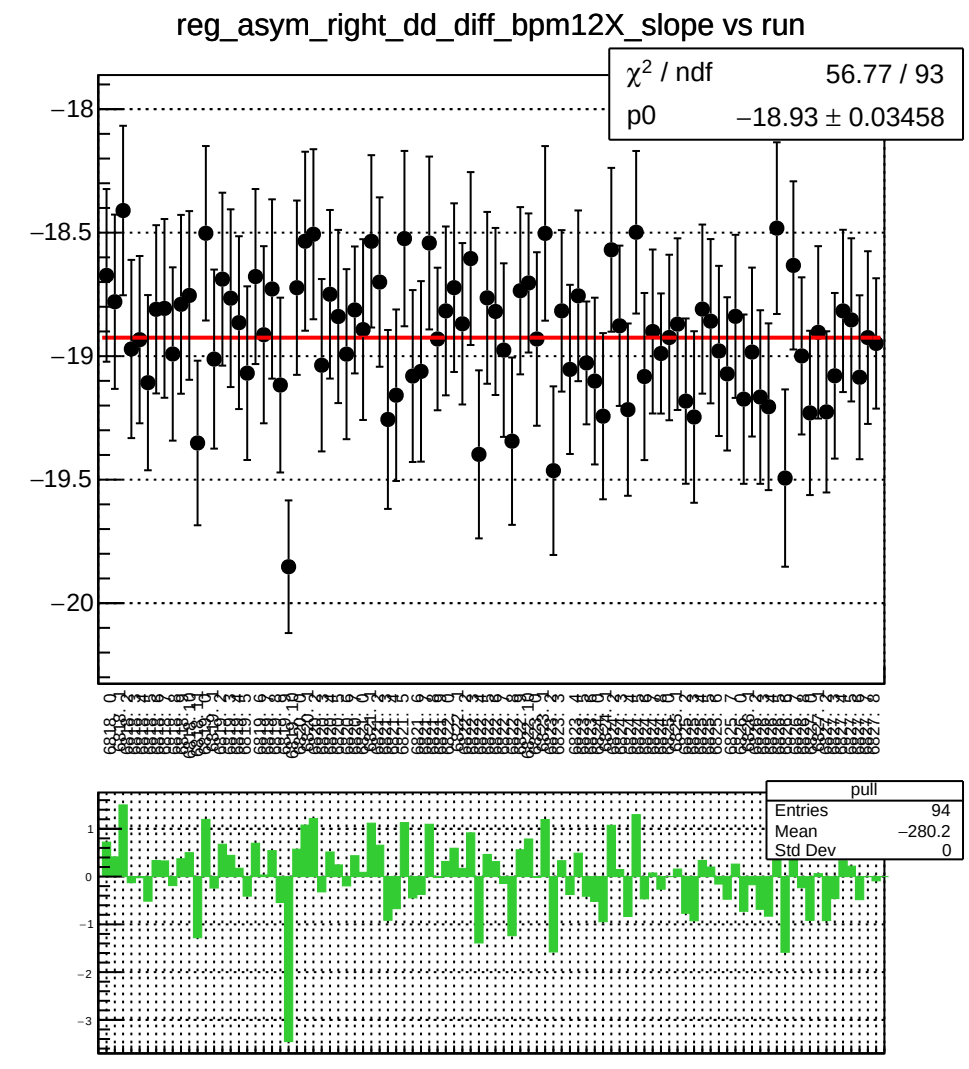

pull1D
Entries 94
Mean 0.01583
Std Dev 0.7082

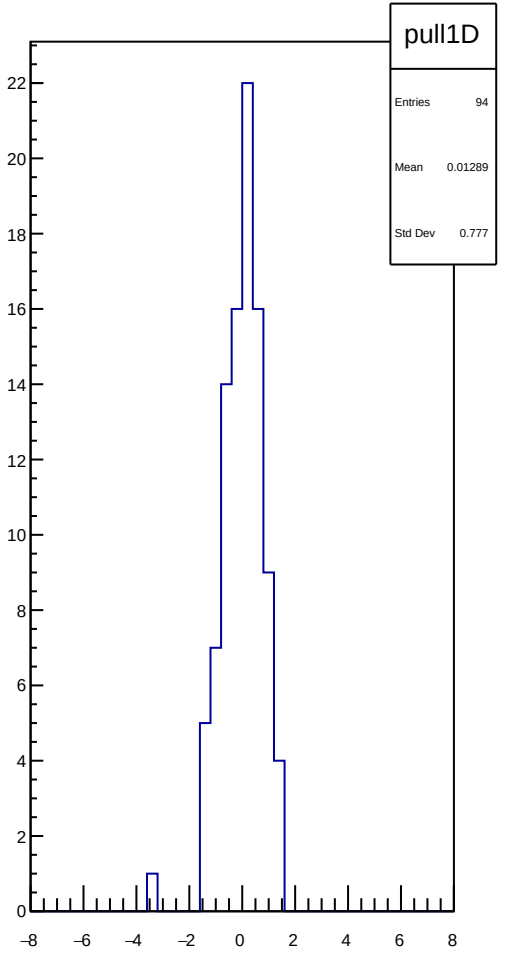

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.94 / 93
p0 68.02 ± 0.8531
90
80
70
60
50
pull
Entries 94
Mean −708
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

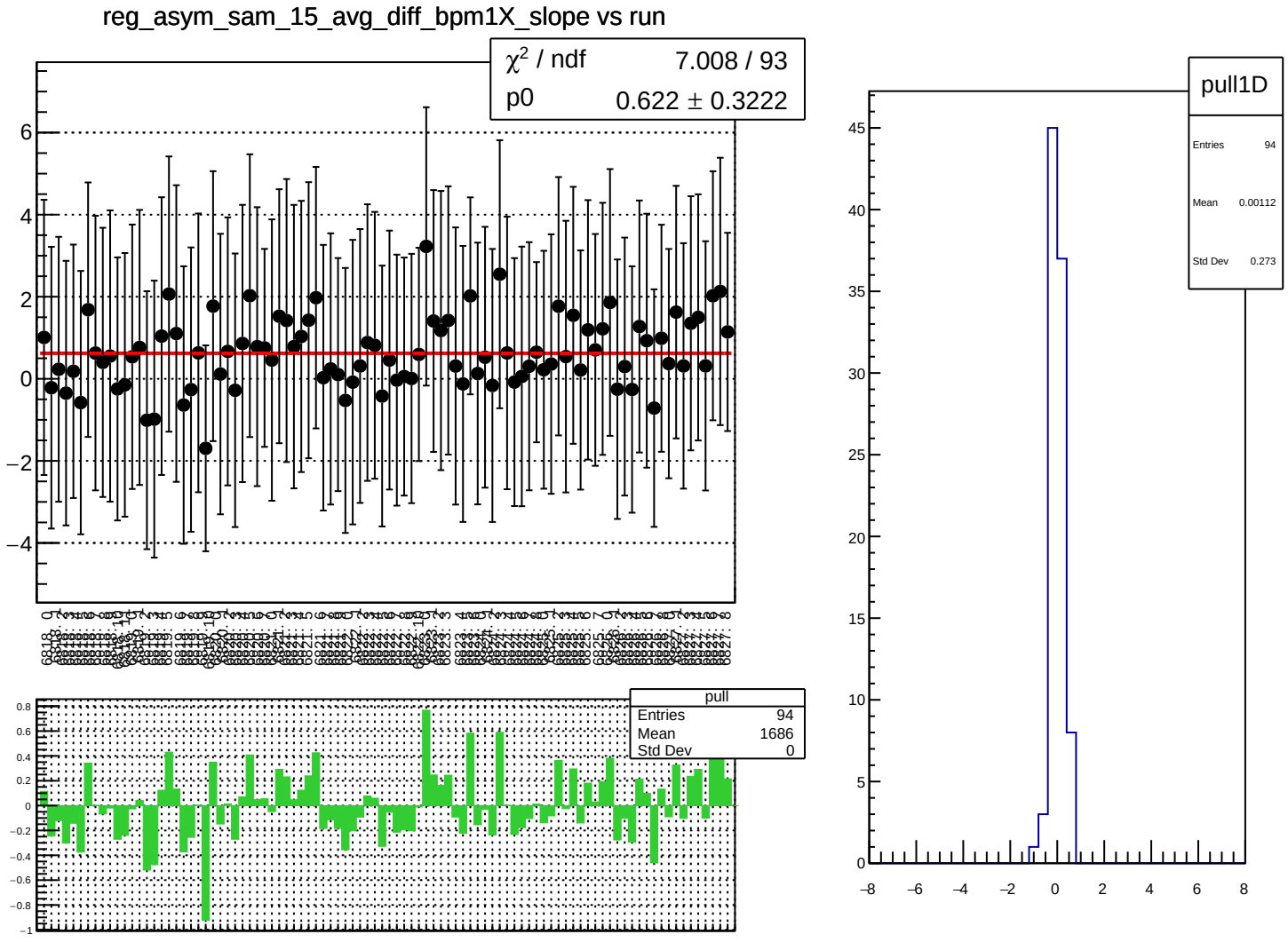

pull1D
Entries 94
Mean −0.002574
Std Dev 0.7575
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

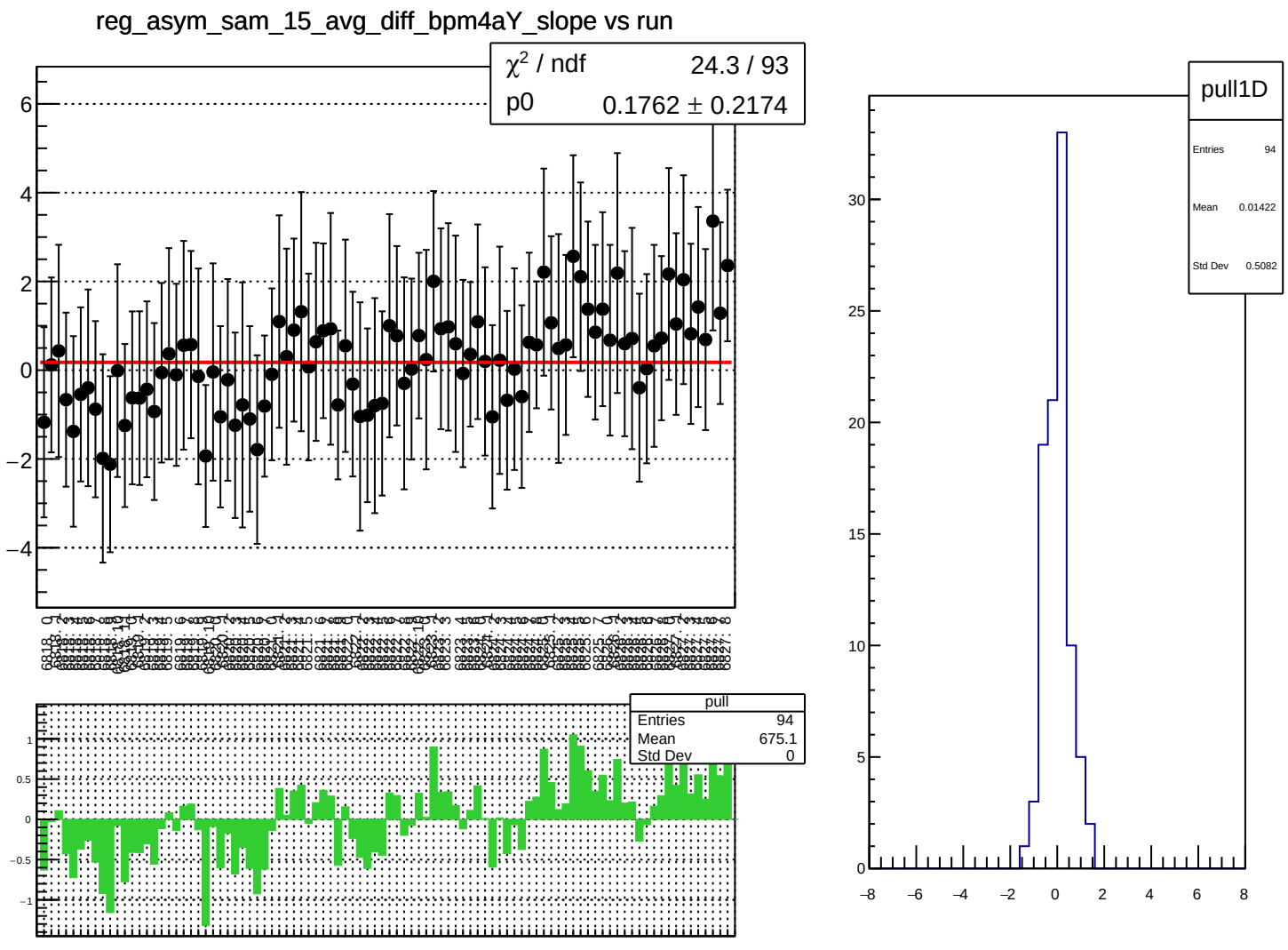

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.79 / 93
p0 1.237 ± 0.7082
pull
Entries 94
Mean 468.5
Std Dev 0

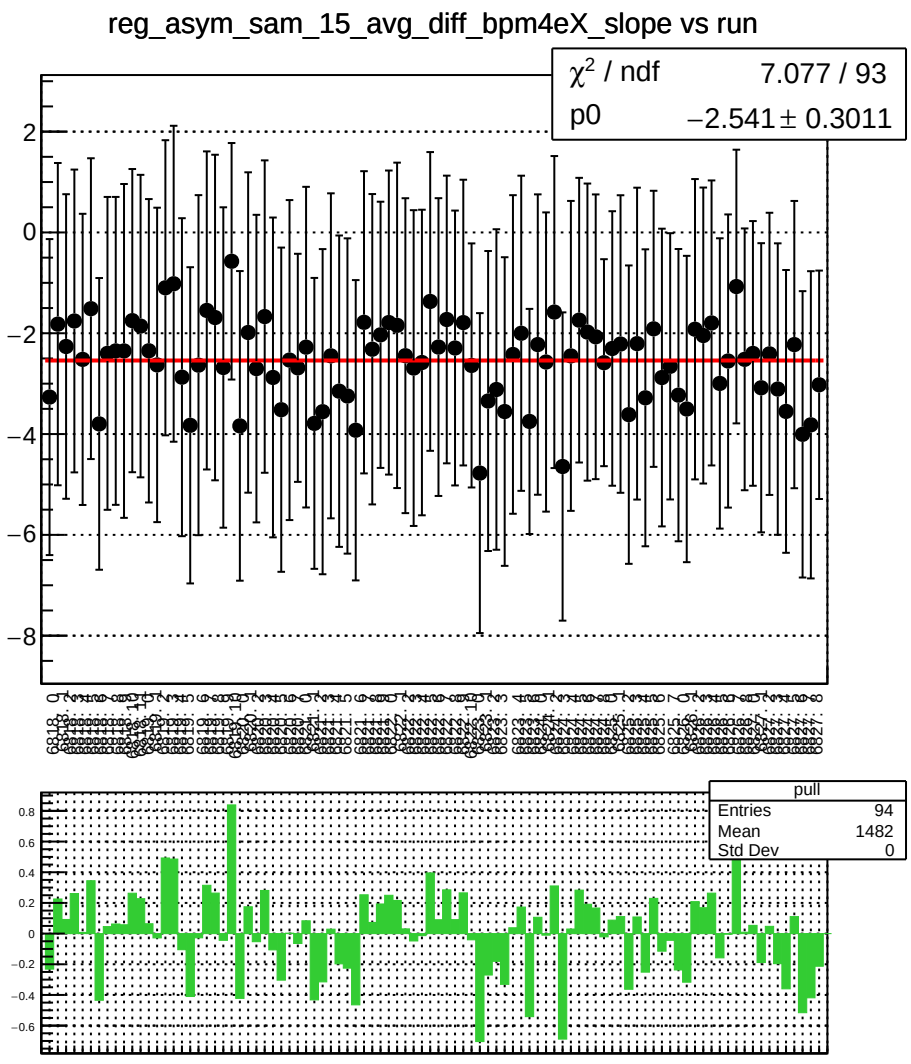

pull1D
Entries 94
Mean −0.01209
Std Dev 0.6978

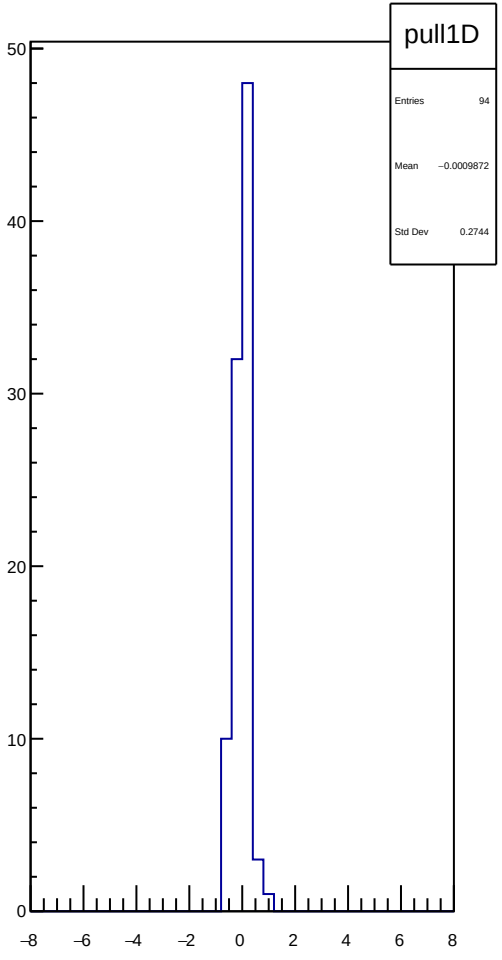

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 56.77 / 93
p0 −18.93 ± 0.03458
−18
−18.5
−19
−19.5
−20
pull
Entries 94
Mean −280.2
Std Dev 0
1
0
−1
−2
−3

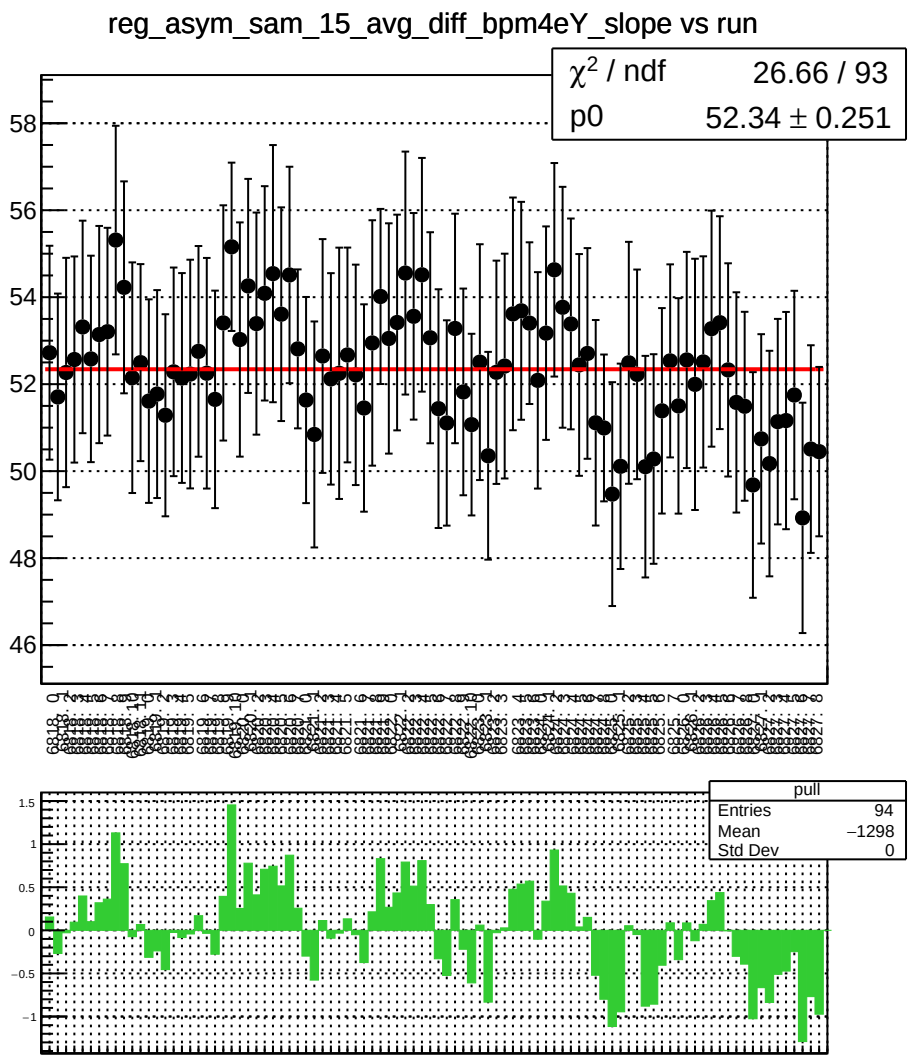

pull1D
Entries 94
Mean 0.01289
Std Dev 0.777
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

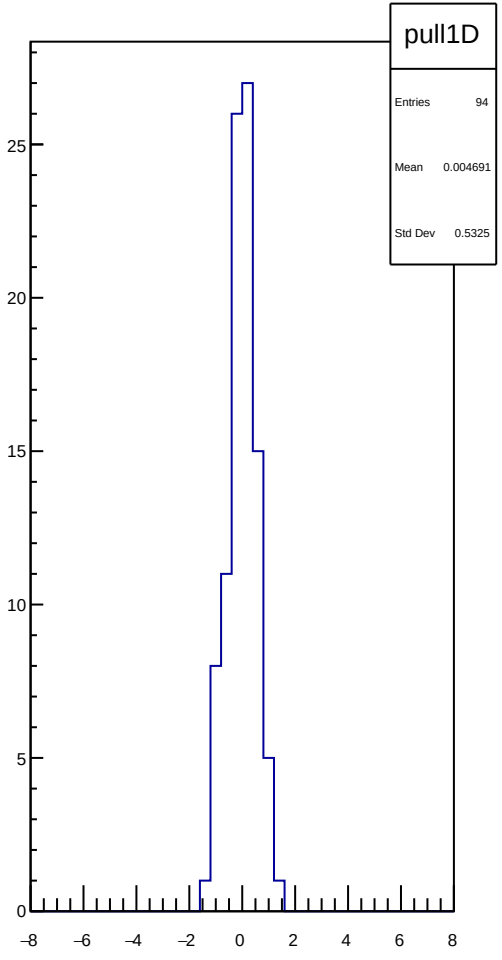

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 7.008 / 93
p0 0.622 ± 0.3222
pull
Entries 94
Mean 1686
Std Dev 0
pull1D
Entries 94
Mean 0.00112
Std Dev 0.273

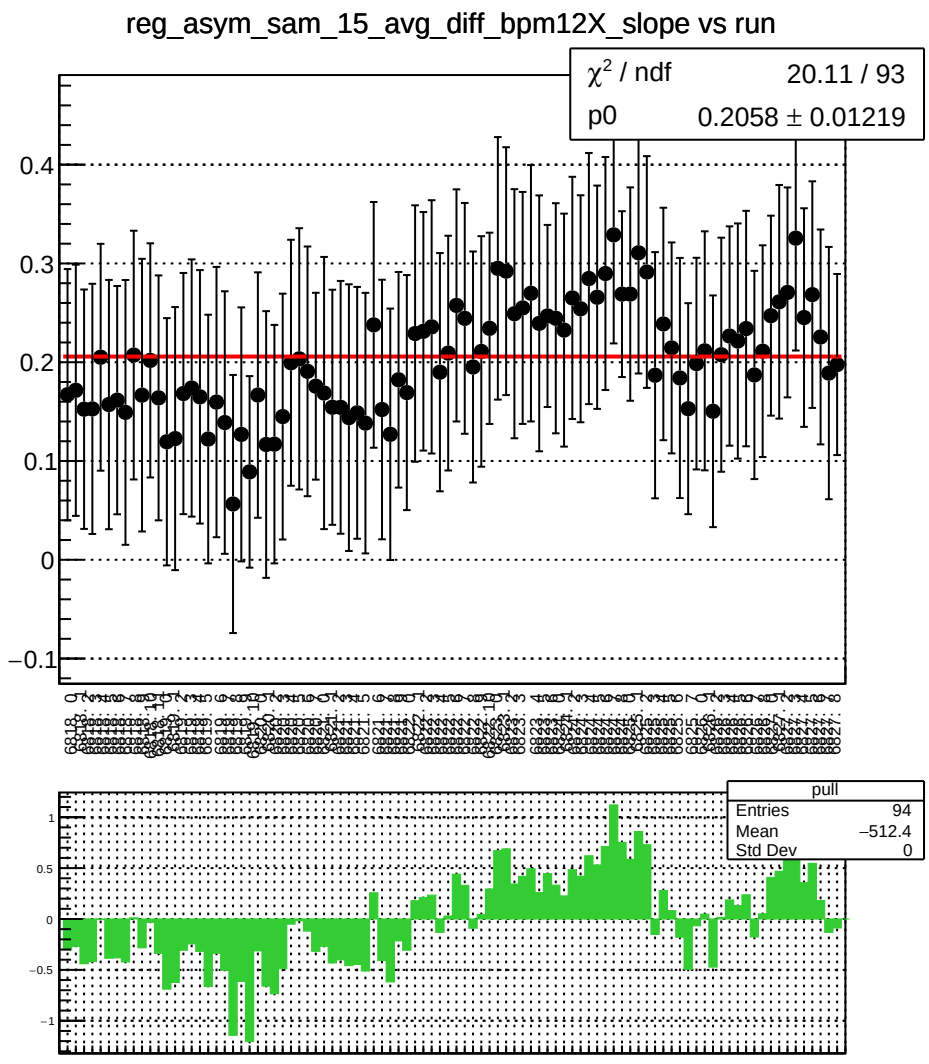

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.3 / 93
p0 0.1762 ± 0.2174
pull
Entries 94
Mean 675.1
Std Dev 0
pull1D
Entries 94
Mean 0.01422
Std Dev 0.5082

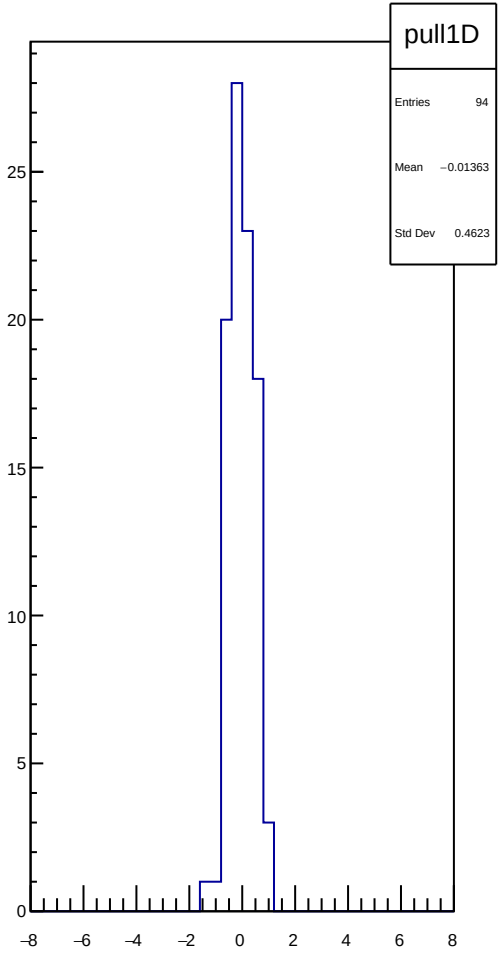

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.077 / 93
p0 −2.541 ± 0.3011
pull
Entries 94
Mean 1482
Std Dev 0

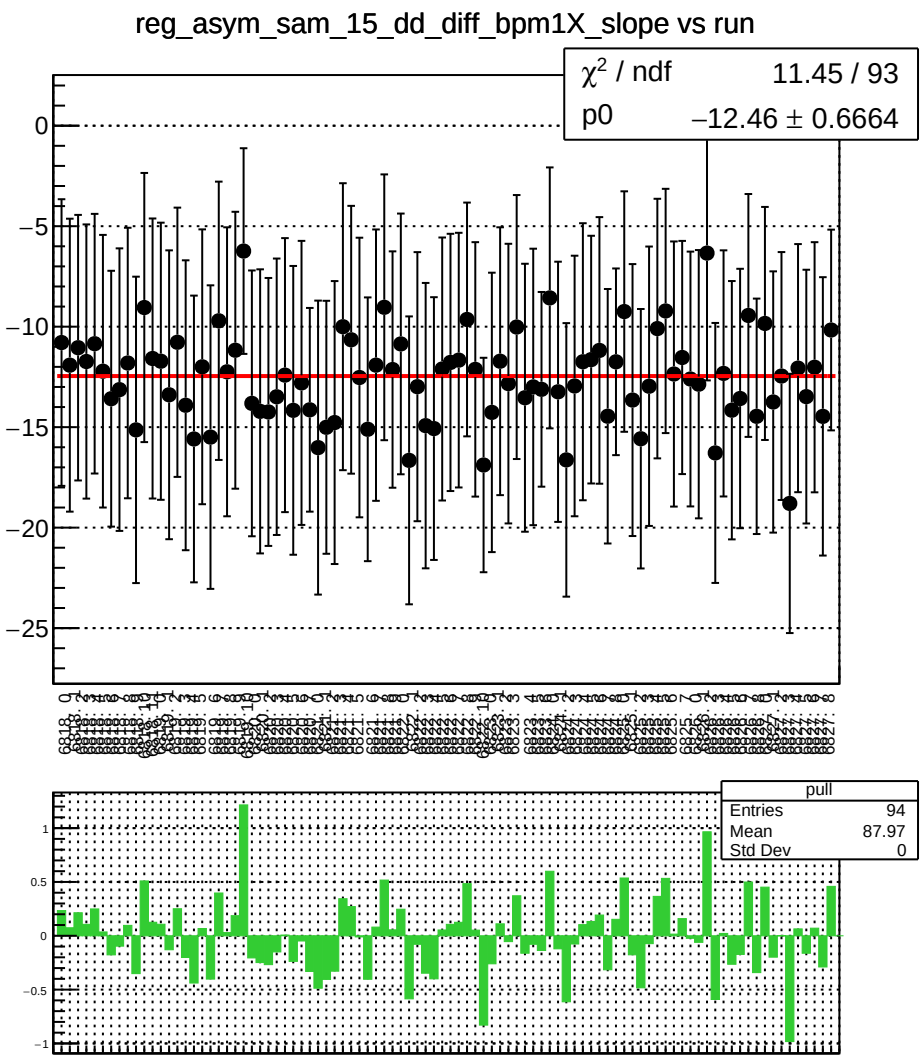

pull1D
Entries 94
Mean −0.0009872
Std Dev 0.2744

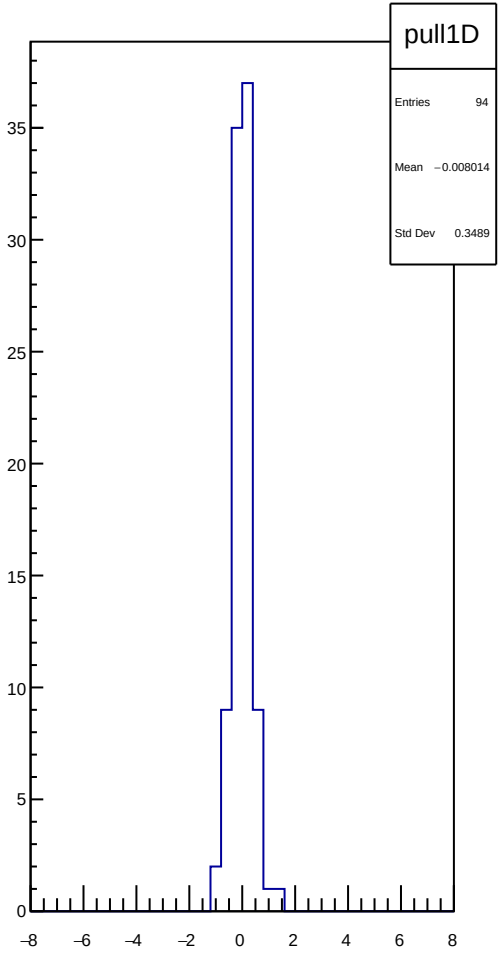

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.66 / 93
p0 52.34 ± 0.251
pull
Entries 94
Mean −1298
Std Dev 0

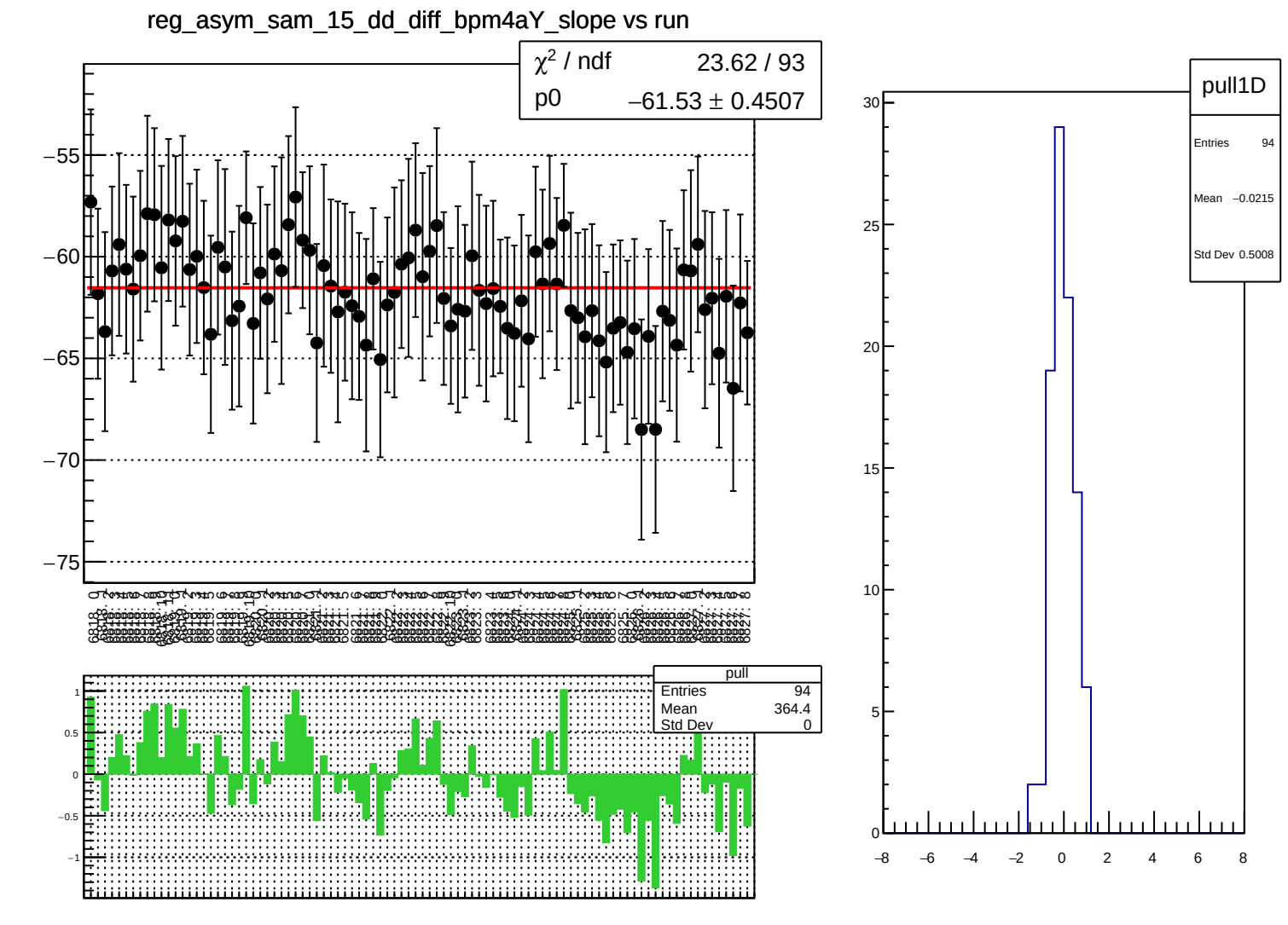

pull1D
Entries 94
Mean 0.004691
Std Dev 0.5325

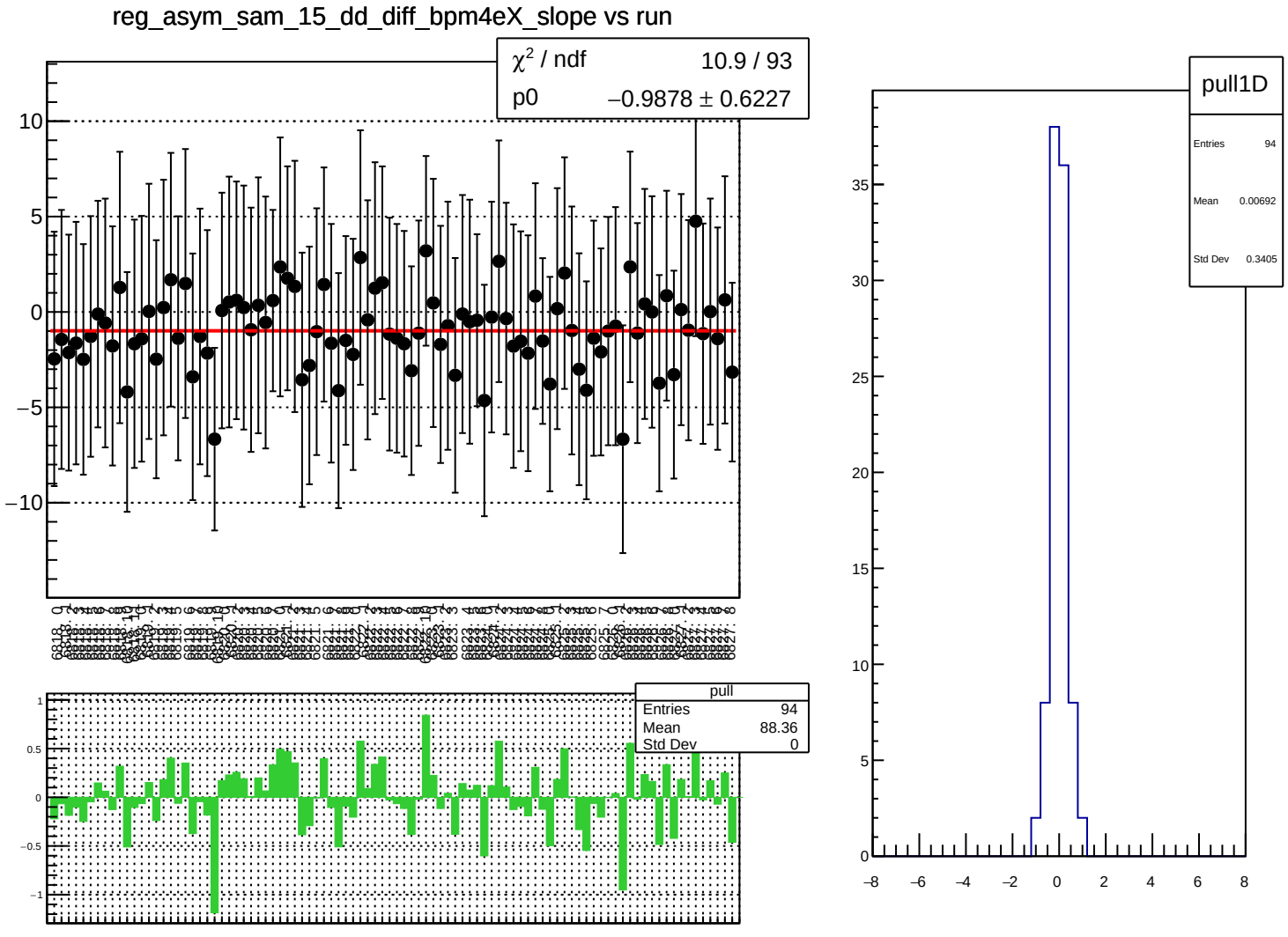

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 20.11 / 93
p0 0.2058 ± 0.01219
pull
Entries 94
Mean −512.4
Std Dev 0

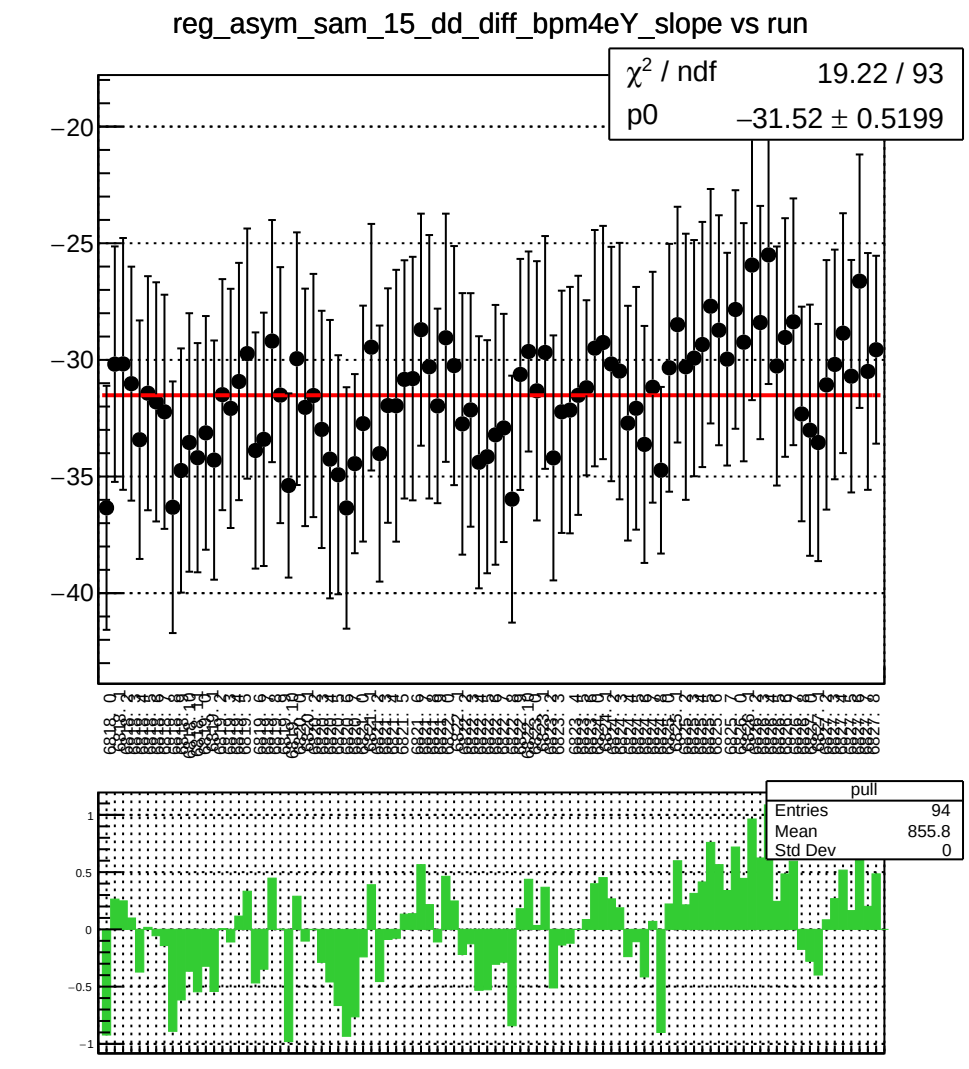

pull1D
Entries 94
Mean −0.01363
Std Dev 0.4623

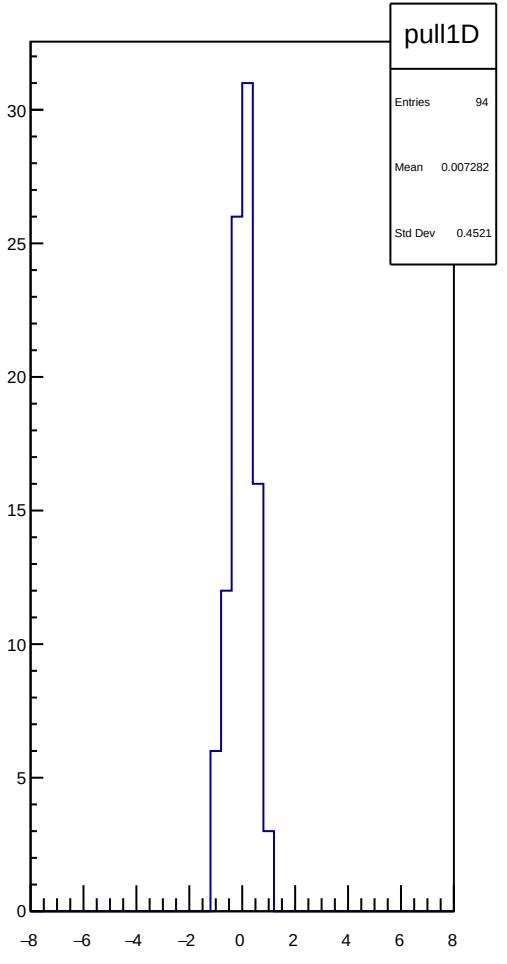

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 11.45 / 93
p0 −12.46 ± 0.6664
pull
Entries 94
Mean 87.97
Std Dev 0

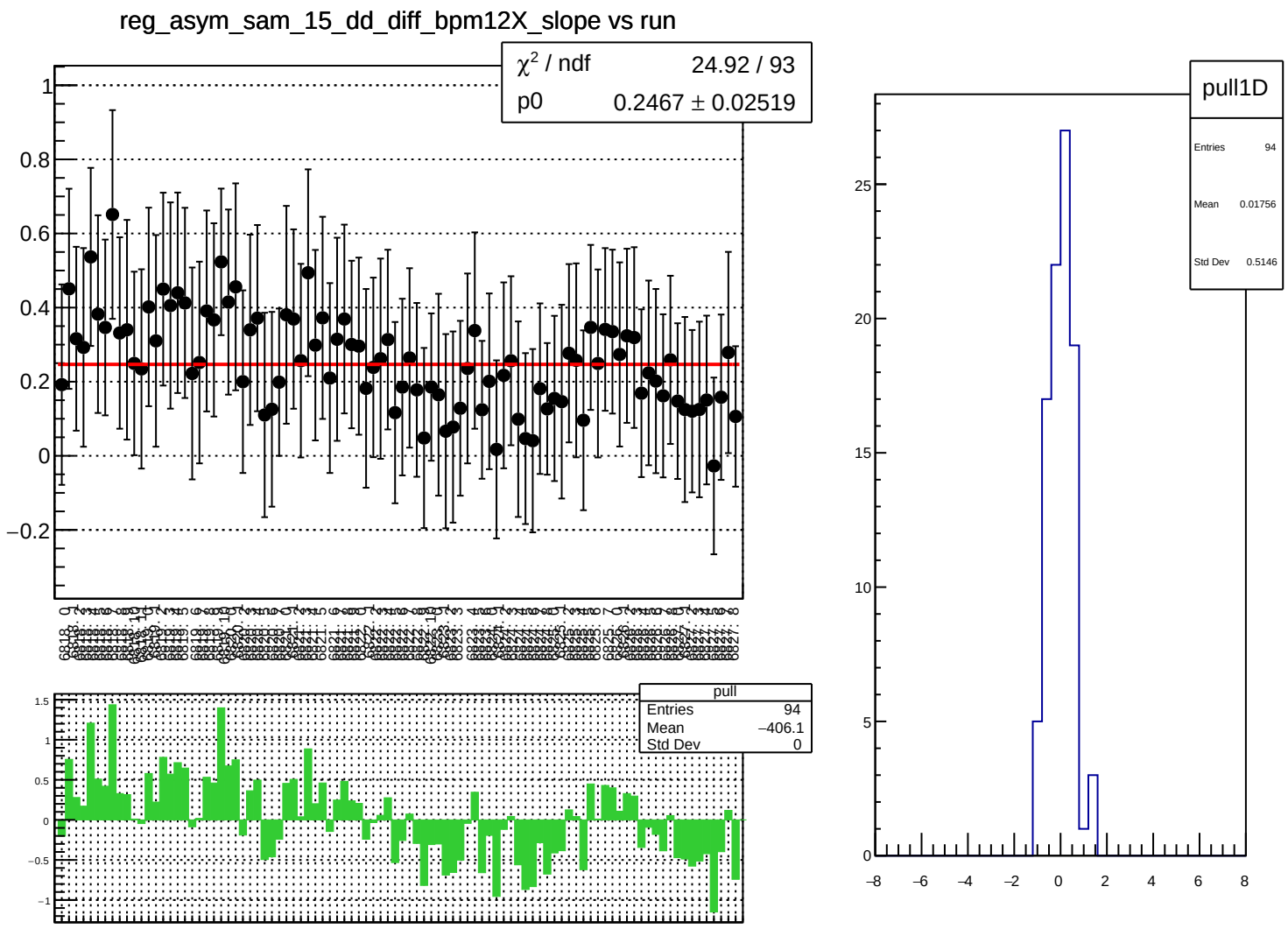

pull1D
Entries 94
Mean −0.008014
Std Dev 0.3489

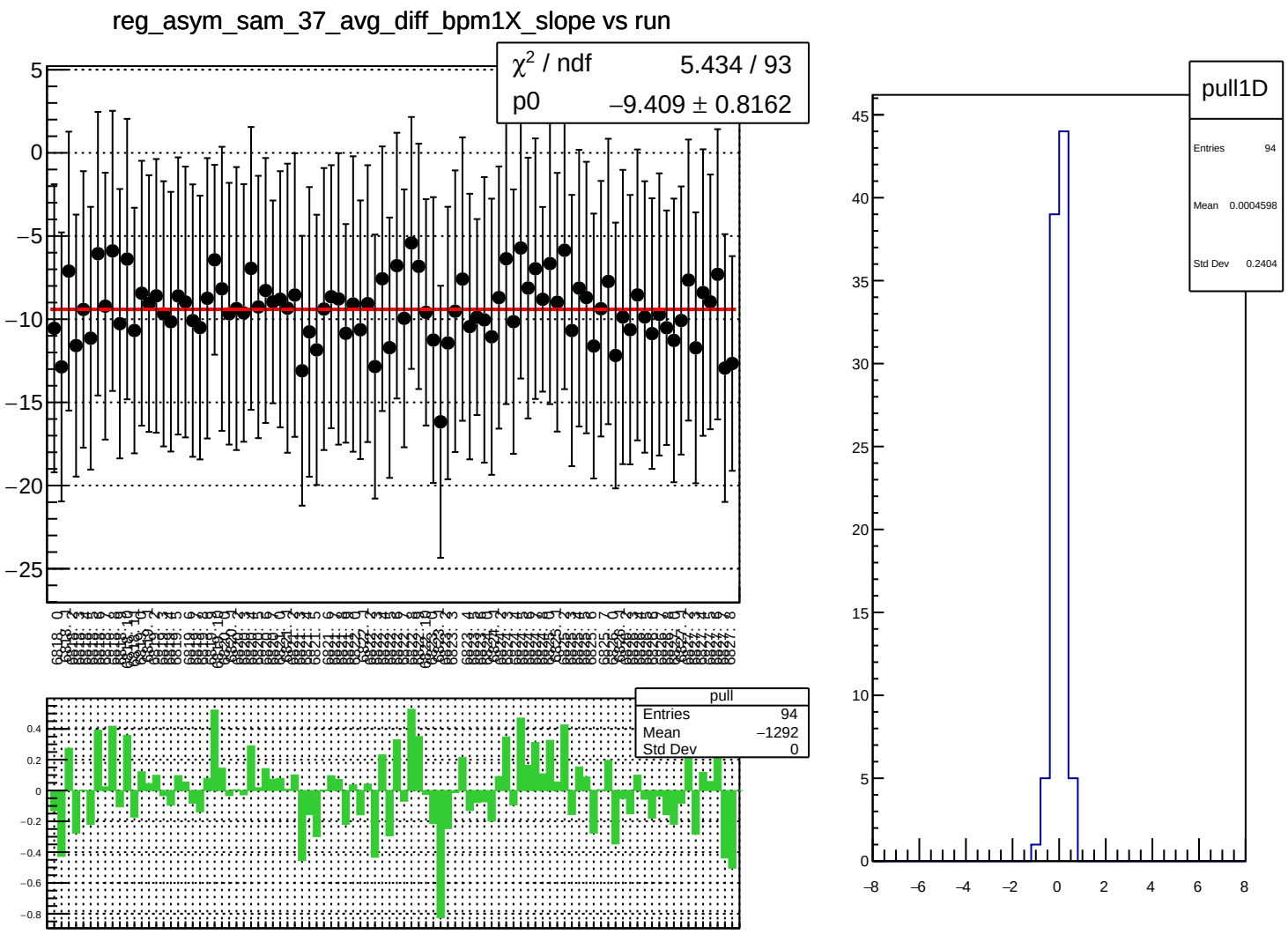

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.62 / 93
p0 −61.53 ± 0.4507
−55
−60
−65
−70
−75
pull
Entries 94
Mean 364.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0215
Std Dev 0.5008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

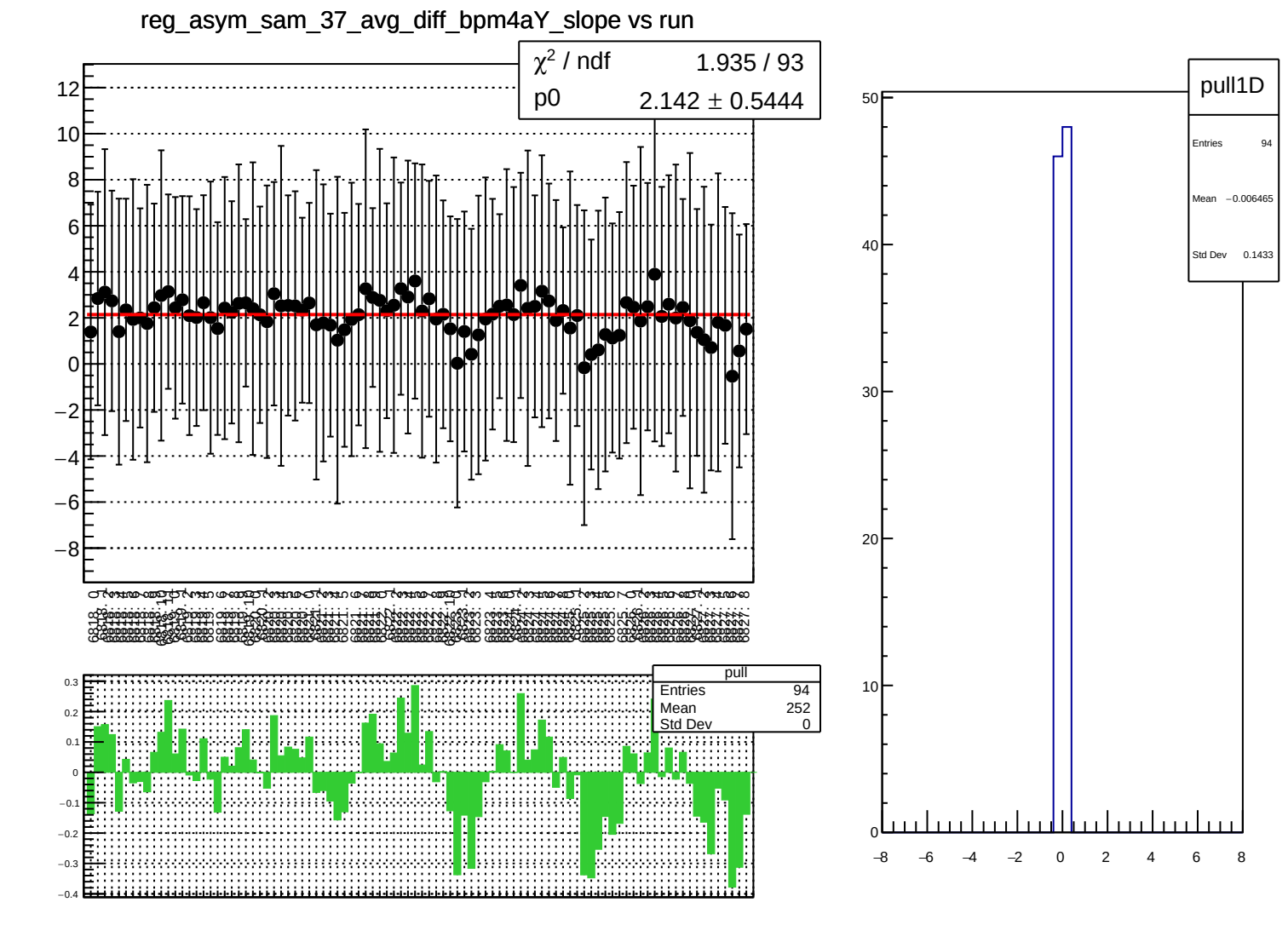

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.9 / 93
p0 −0.9878 ± 0.6227
pull
Entries 94
Mean 88.36
Std Dev 0
pull1D
Entries 94
Mean 0.00692
Std Dev 0.3405

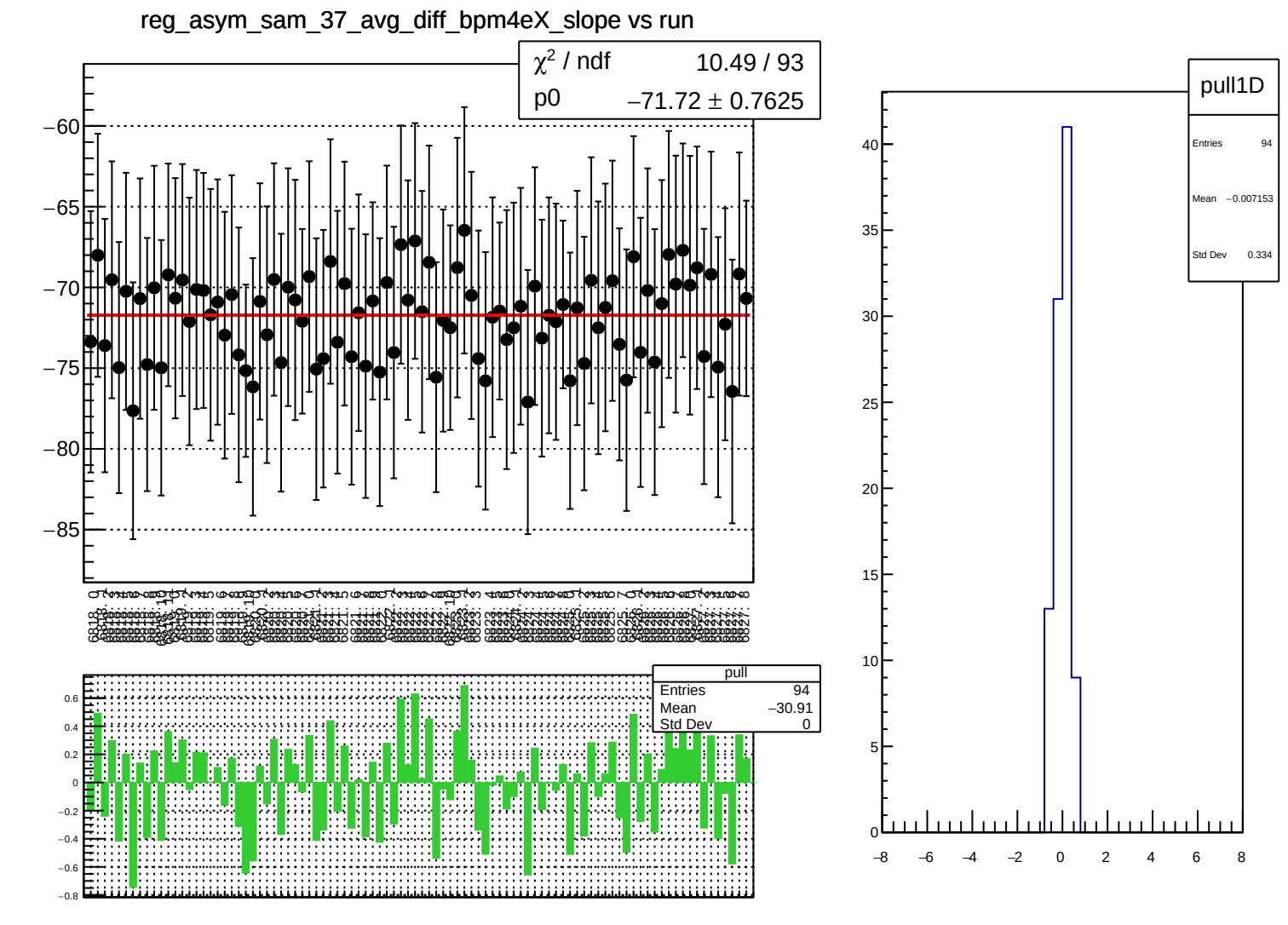

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.22 / 93
p0 −31.52 ± 0.5199
pull
Entries 94
Mean 855.8
Std Dev 0

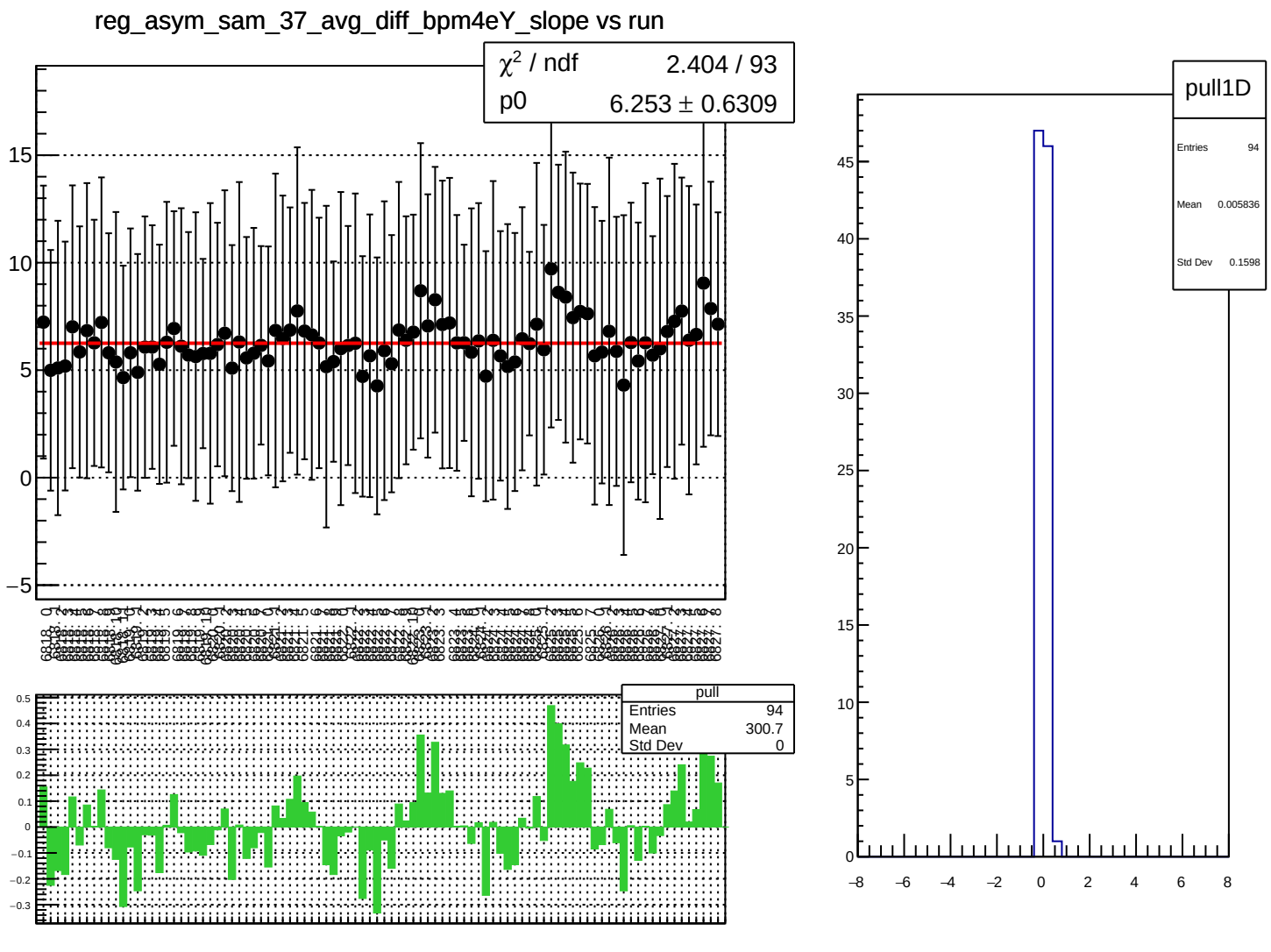

pull1D
Entries 94
Mean 0.007282
Std Dev 0.4521

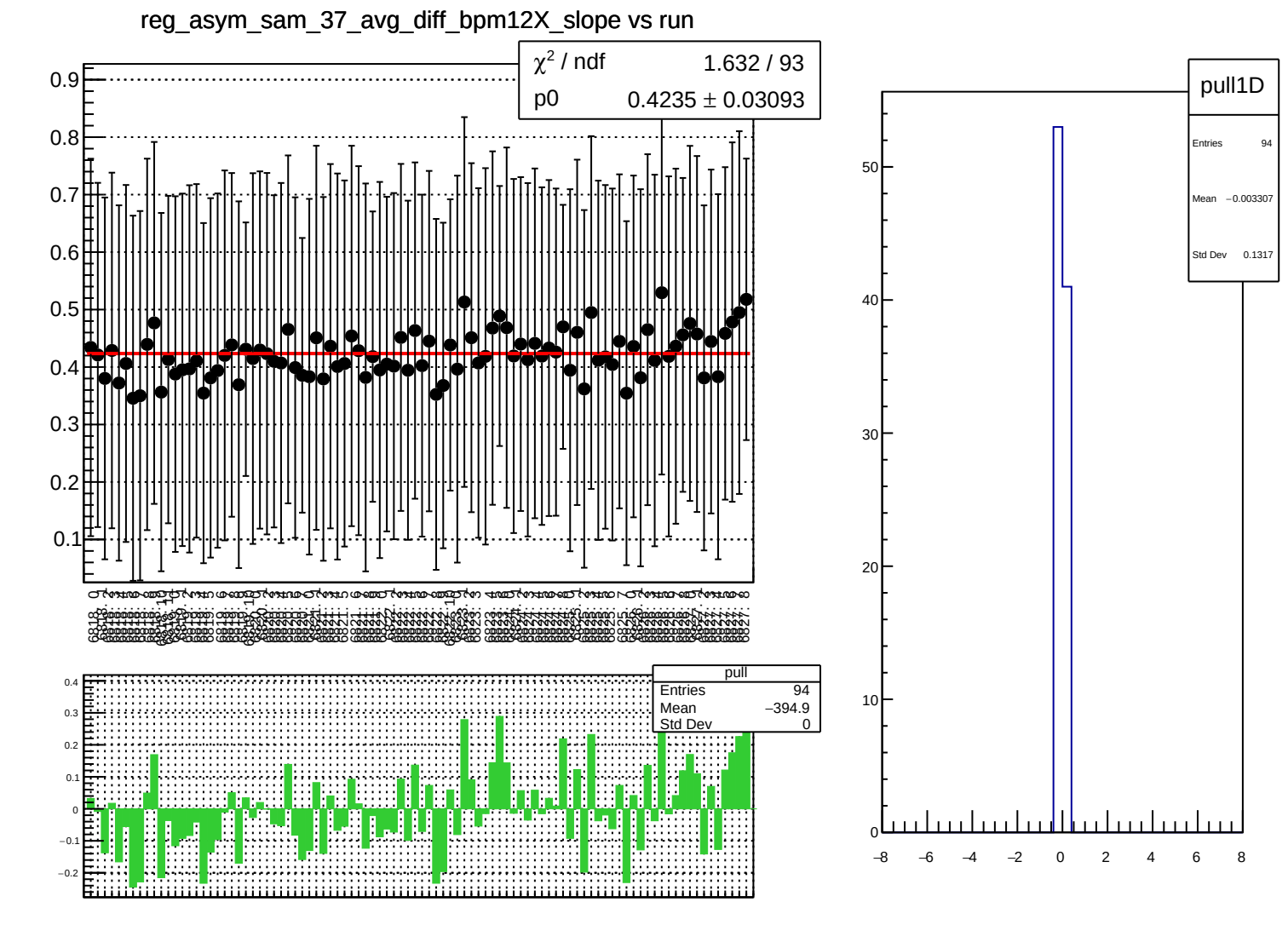

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 24.92 / 93
p0 0.2467 ± 0.02519
pull
Entries 94
Mean −406.1
Std Dev 0
pull1D
Entries 94
Mean 0.01756
Std Dev 0.5146

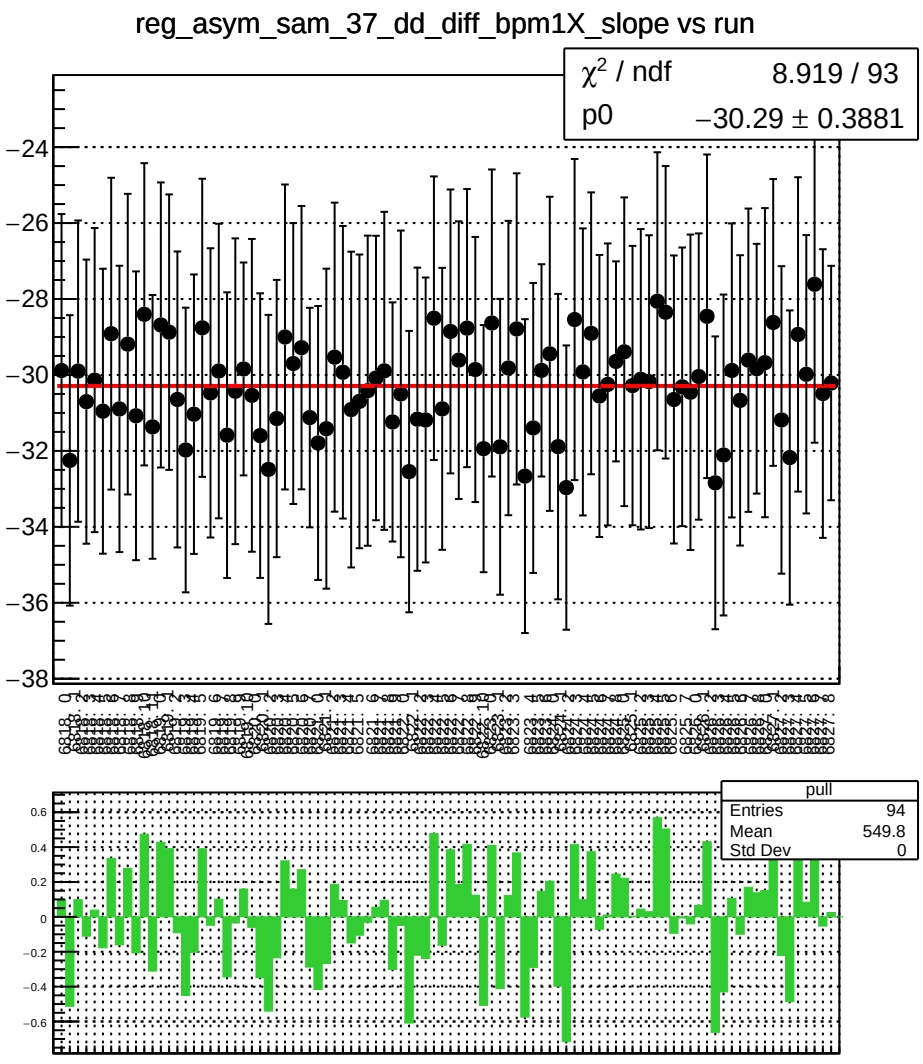

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.434 / 93
p0 −9.409 ± 0.8162
pull
Entries 94
Mean −1292
Std Dev 0
pull1D
Entries 94
Mean 0.0004598
Std Dev 0.2404

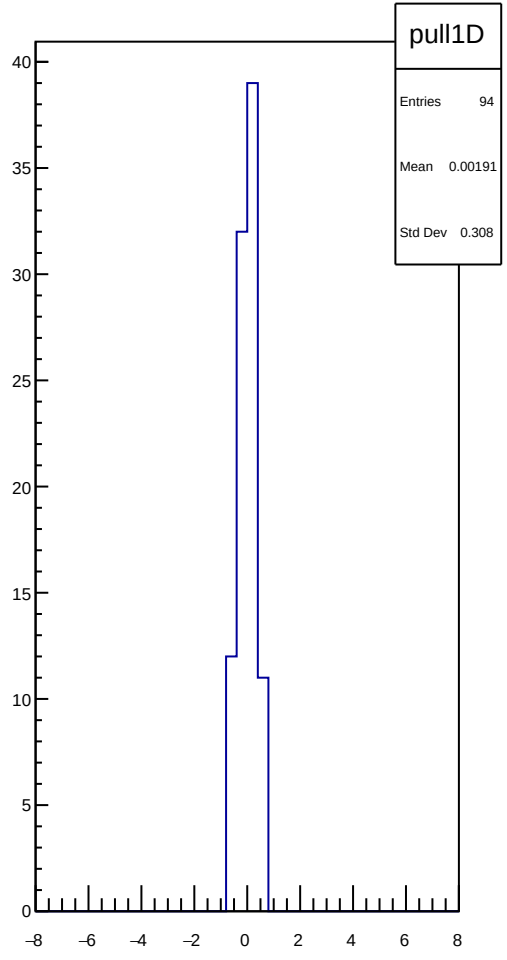

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.935 / 93
p0 2.142 ± 0.5444
pull
Entries 94
Mean 252
Std Dev 0
pull1D
Entries 94
Mean −0.006465
Std Dev 0.1433

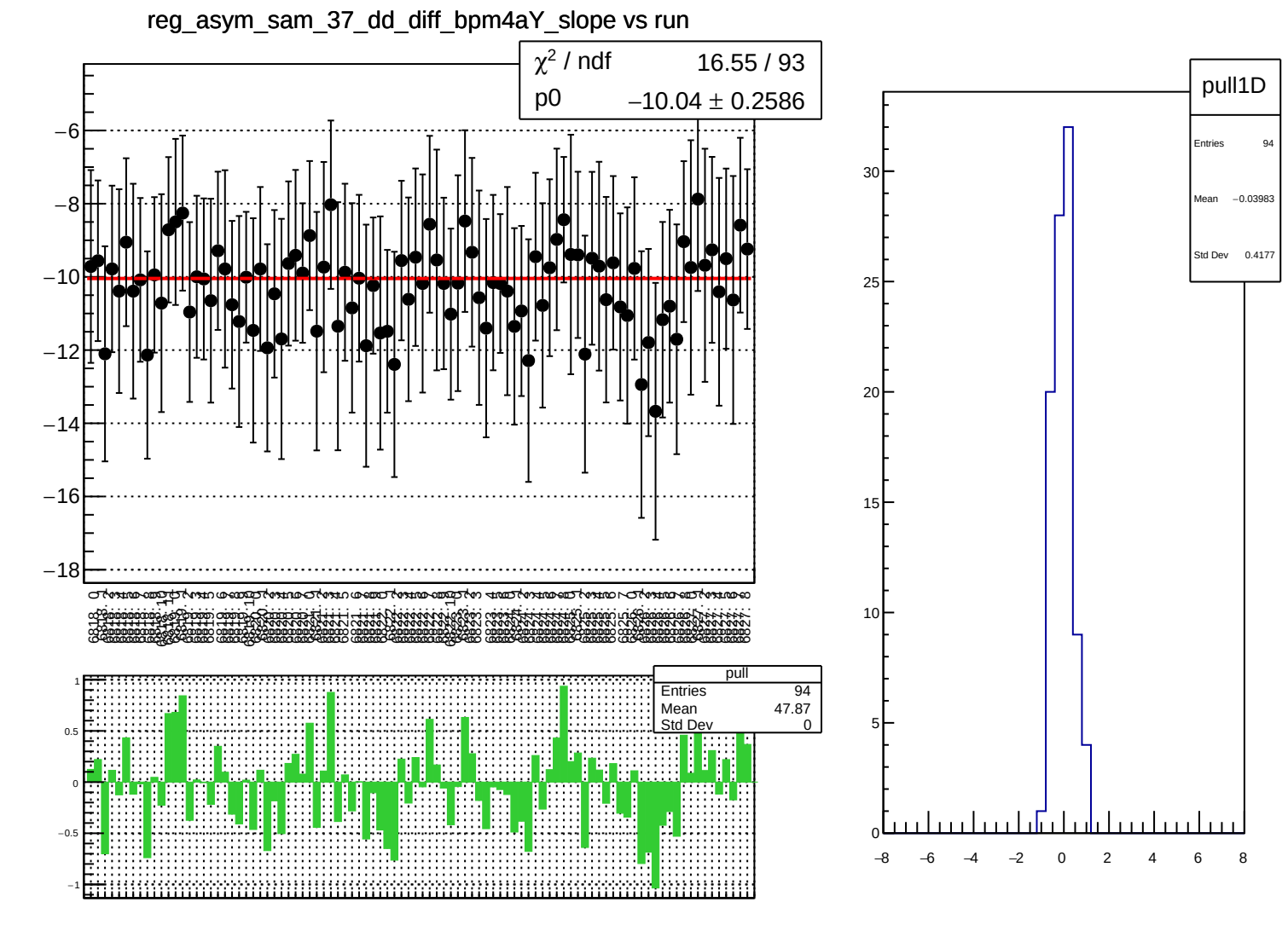

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.49 / 93
p0 −71.72 ± 0.7625
pull
Entries 94
Mean −30.91
Std Dev 0
pull1D
Entries 94
Mean −0.007153
Std Dev 0.334

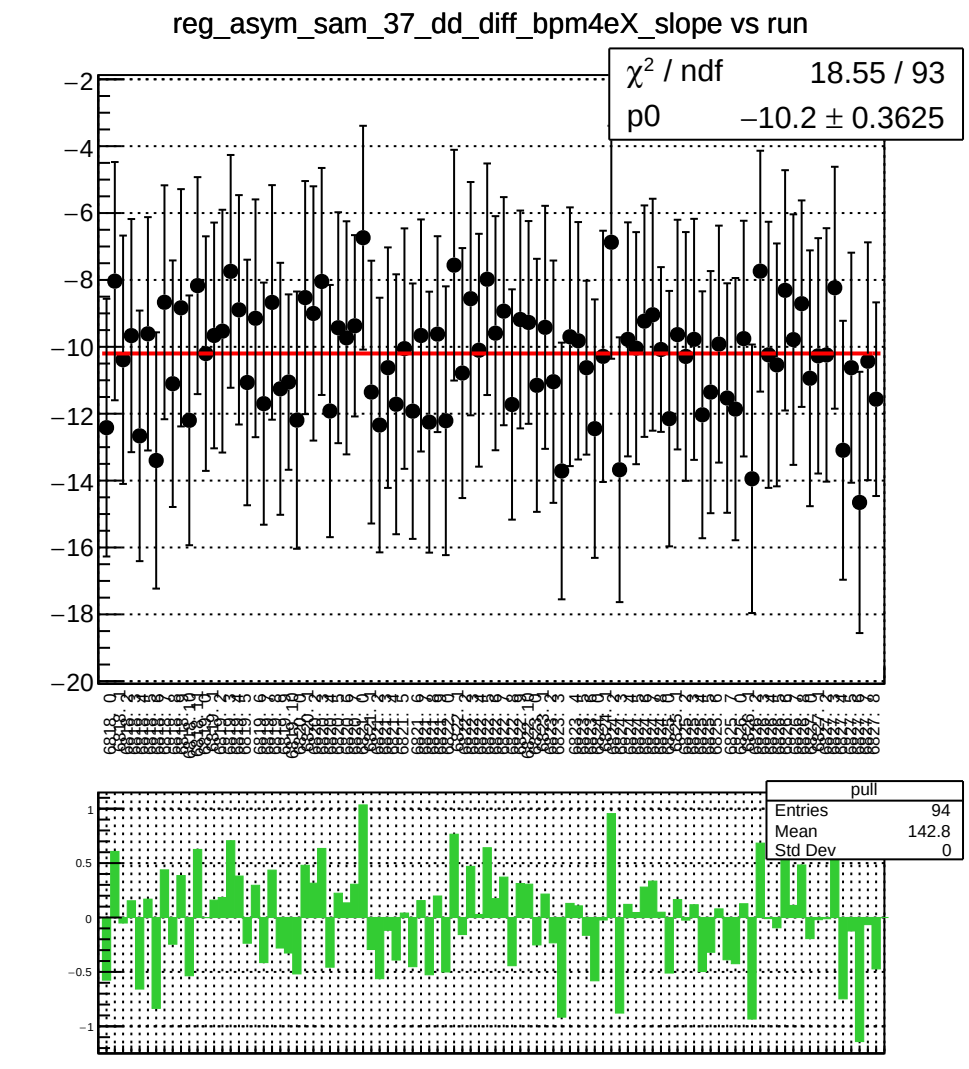

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.404 / 93
p0 6.253 ± 0.6309
pull
Entries 94
Mean 300.7
Std Dev 0
pull1D
Entries 94
Mean 0.005836
Std Dev 0.1598

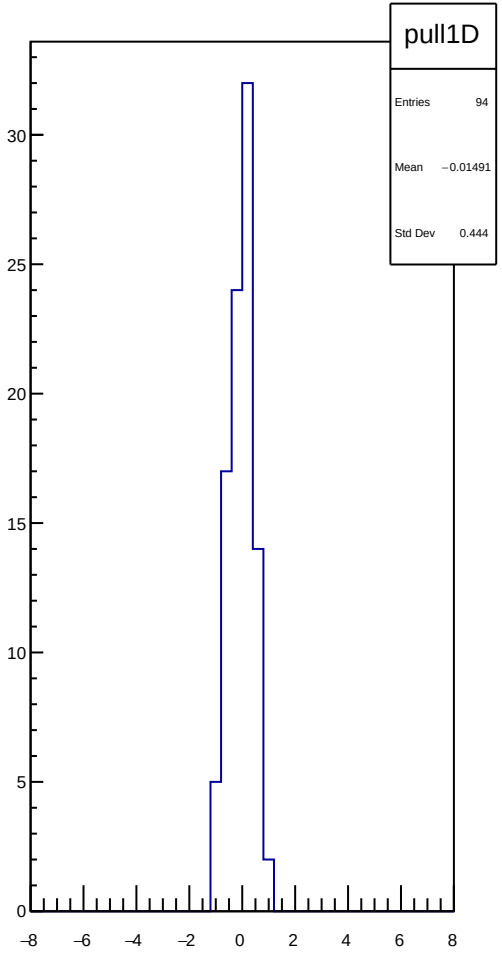

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 1.632 / 93
p0 0.4235 ± 0.03093
pull
Entries 94
Mean −394.9
Std Dev 0
pull1D
Entries 94
Mean −0.003307
Std Dev 0.1317

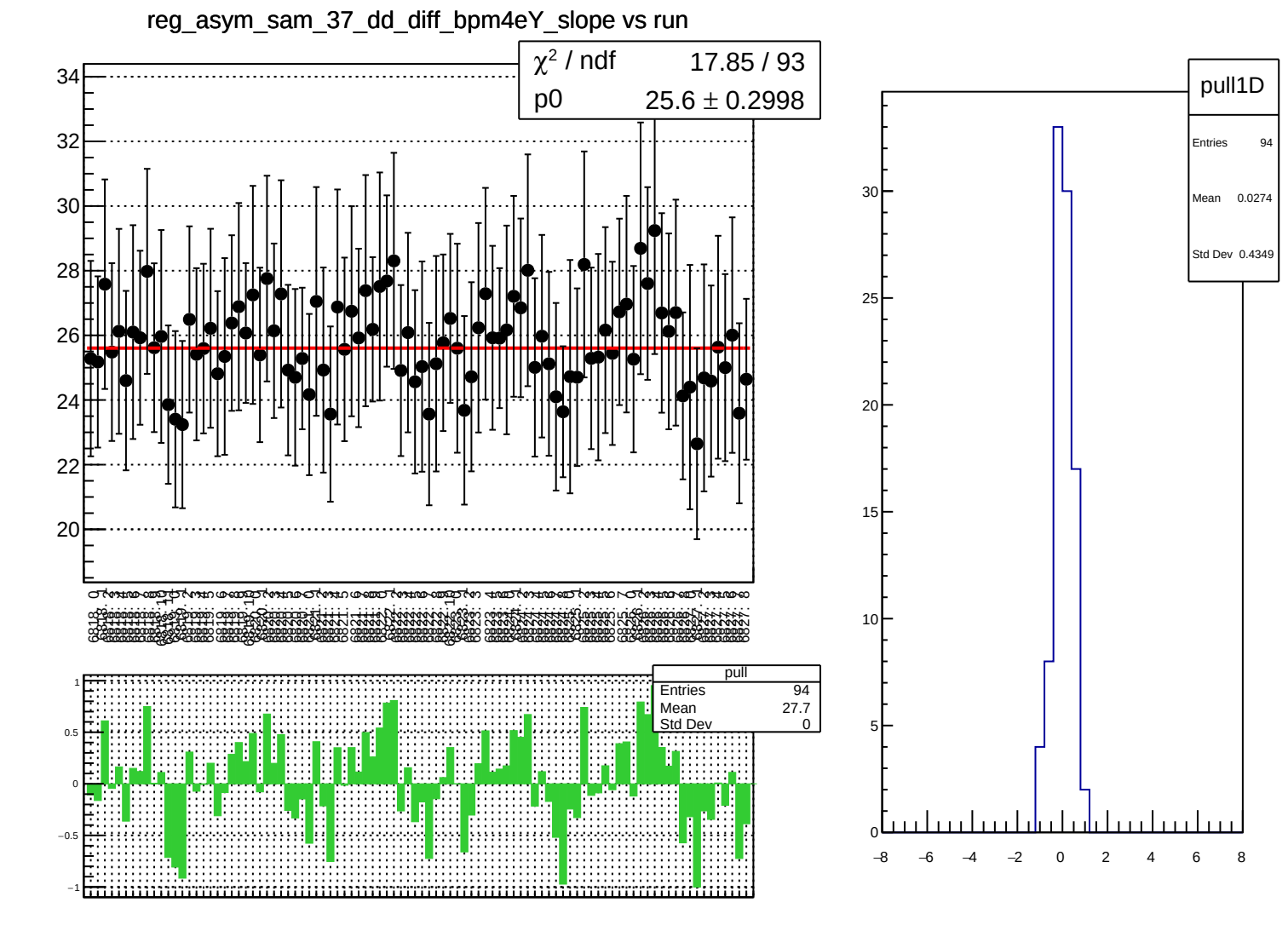

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 8.919 / 93
p0 −30.29 ± 0.3881
pull
Entries 94
Mean 549.8
Std Dev 0

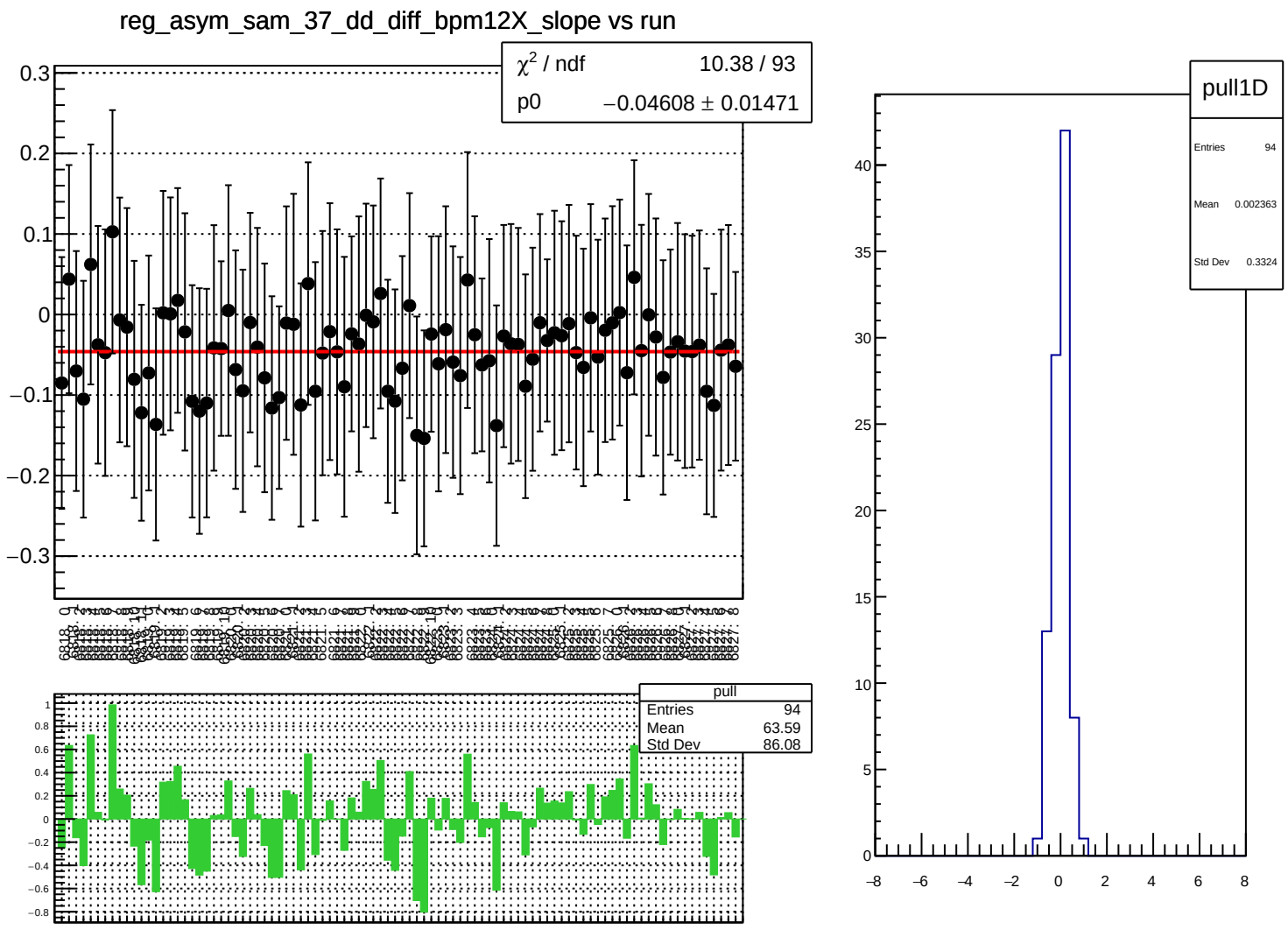

pull1D
Entries 94
Mean 0.00191
Std Dev 0.308

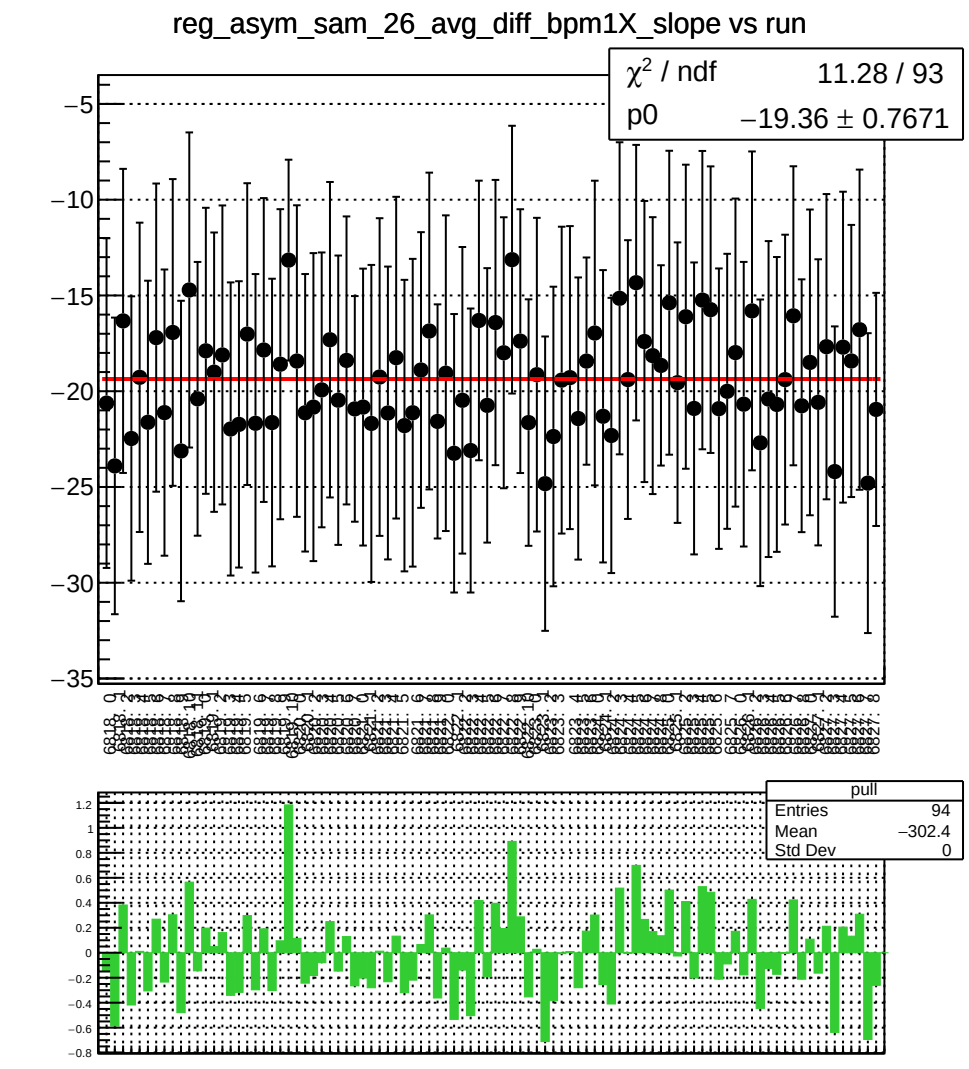

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.55 / 93
p0 −10.04 ± 0.2586
pull
Entries 94
Mean 47.87
Std Dev 0
pull1D
Entries 94
Mean −0.03983
Std Dev 0.4177

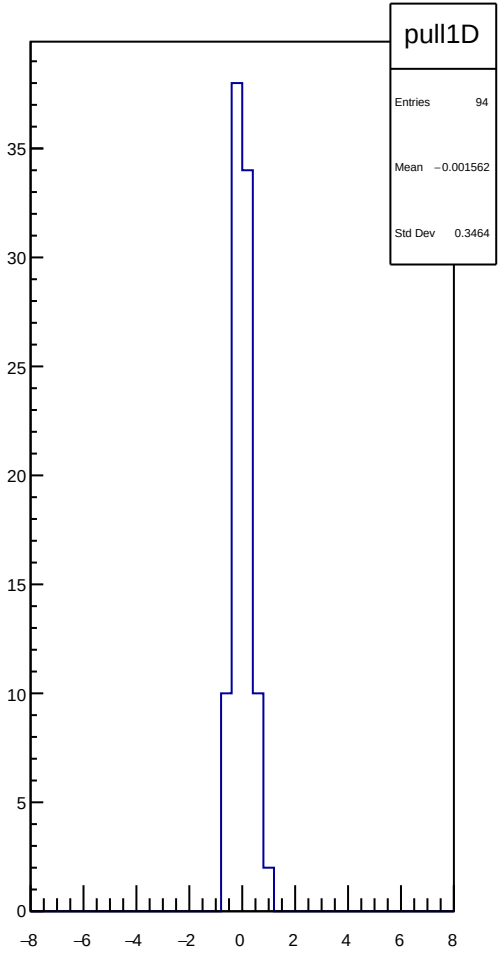

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.55 / 93
p0 −10.2 ± 0.3625
pull
Entries 94
Mean 142.8
Std Dev 0

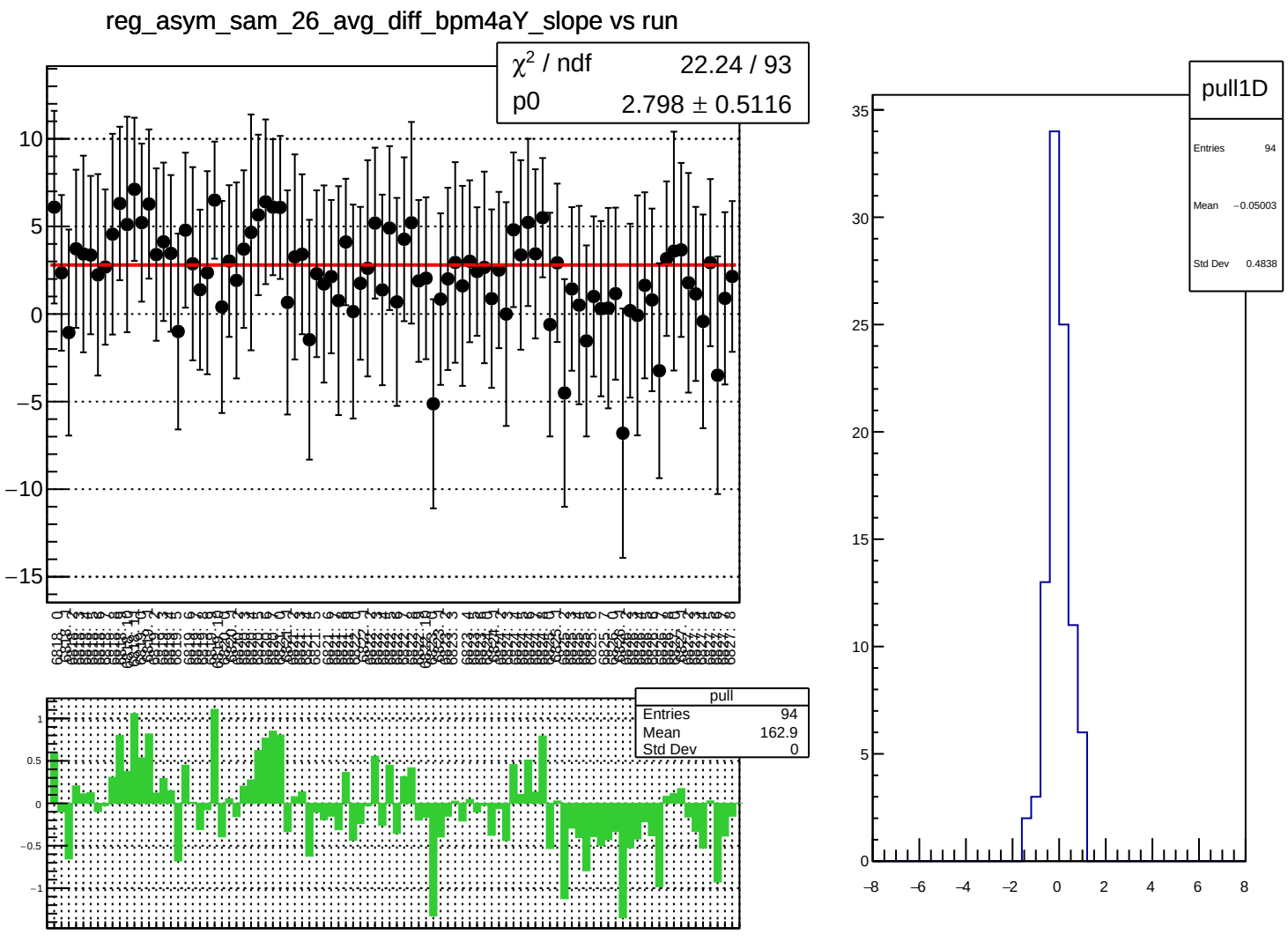

pull1D
Entries 94
Mean −0.01491
Std Dev 0.444

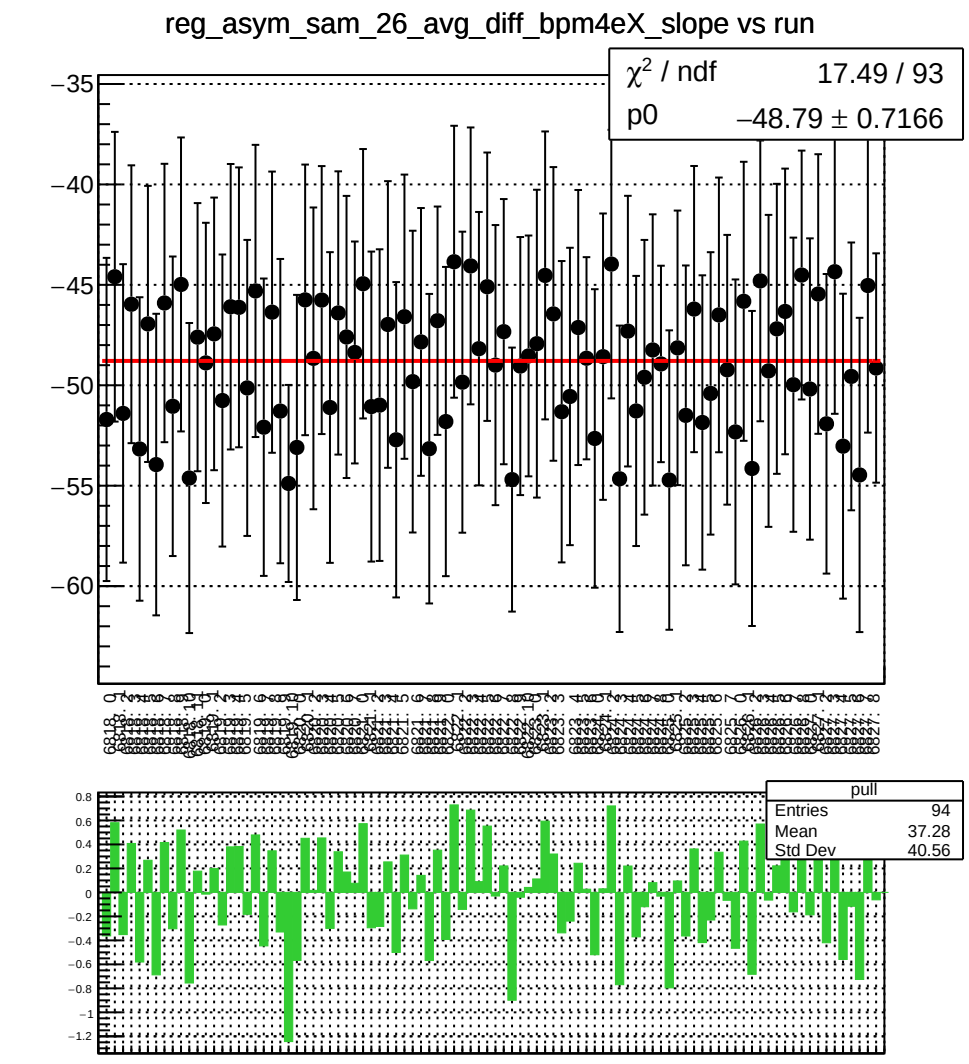

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.85 / 93
p0 25.6 ± 0.2998
pull
Entries 94
Mean 27.7
Std Dev 0
pull1D
Entries 94
Mean 0.0274
Std Dev 0.4349

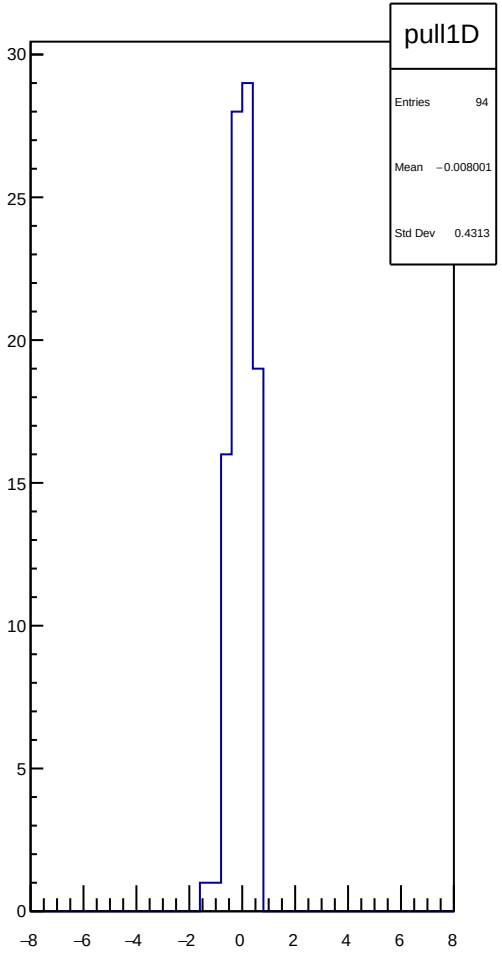

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 10.38 / 93
p0 −0.04608 ± 0.01471
pull
Entries 94
Mean 63.59
Std Dev 86.08
pull1D
Entries 94
Mean 0.002363
Std Dev 0.3324

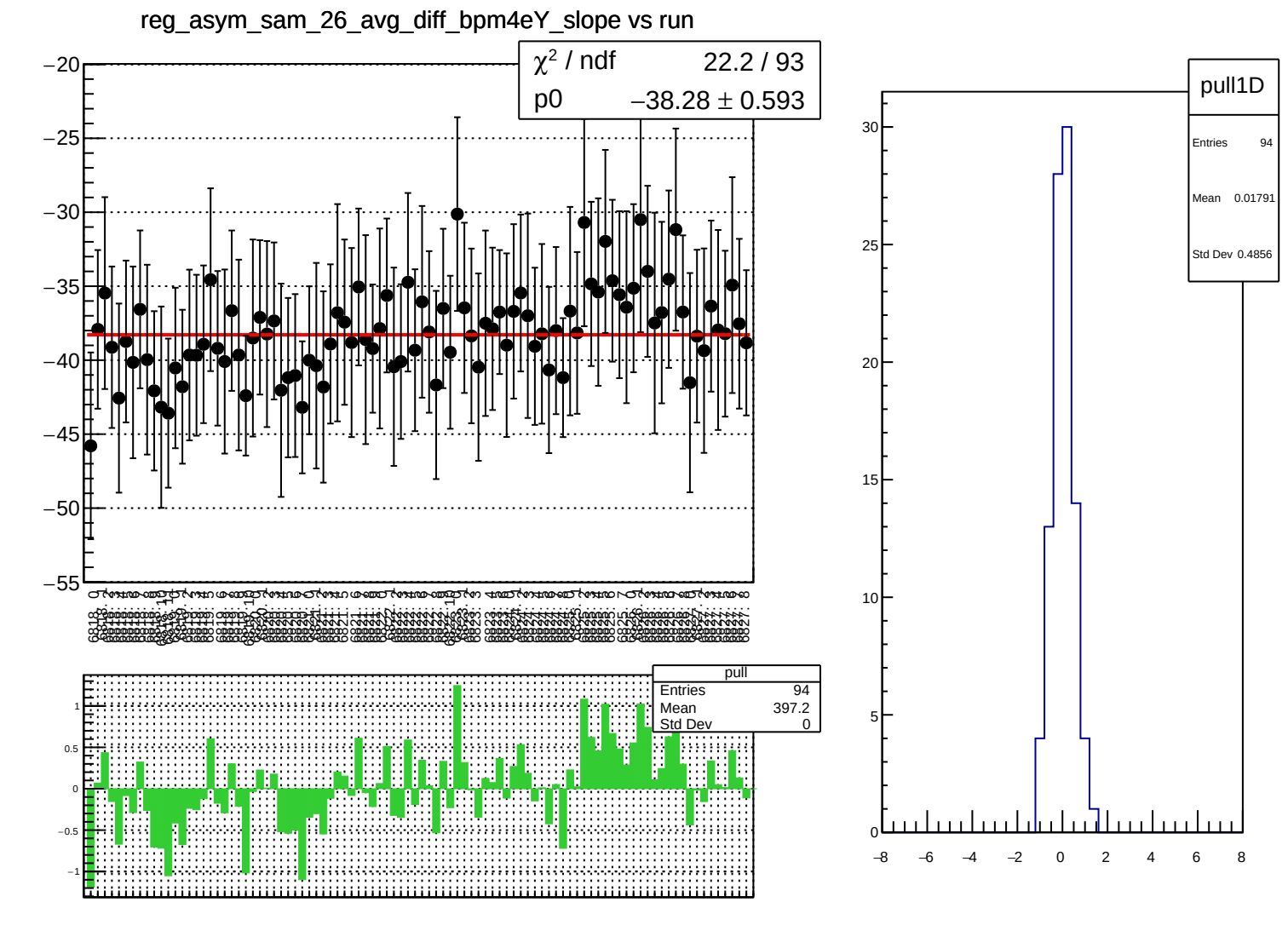

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 11.28 / 93
p0 −19.36 ± 0.7671
pull
Entries 94
Mean −302.4
Std Dev 0

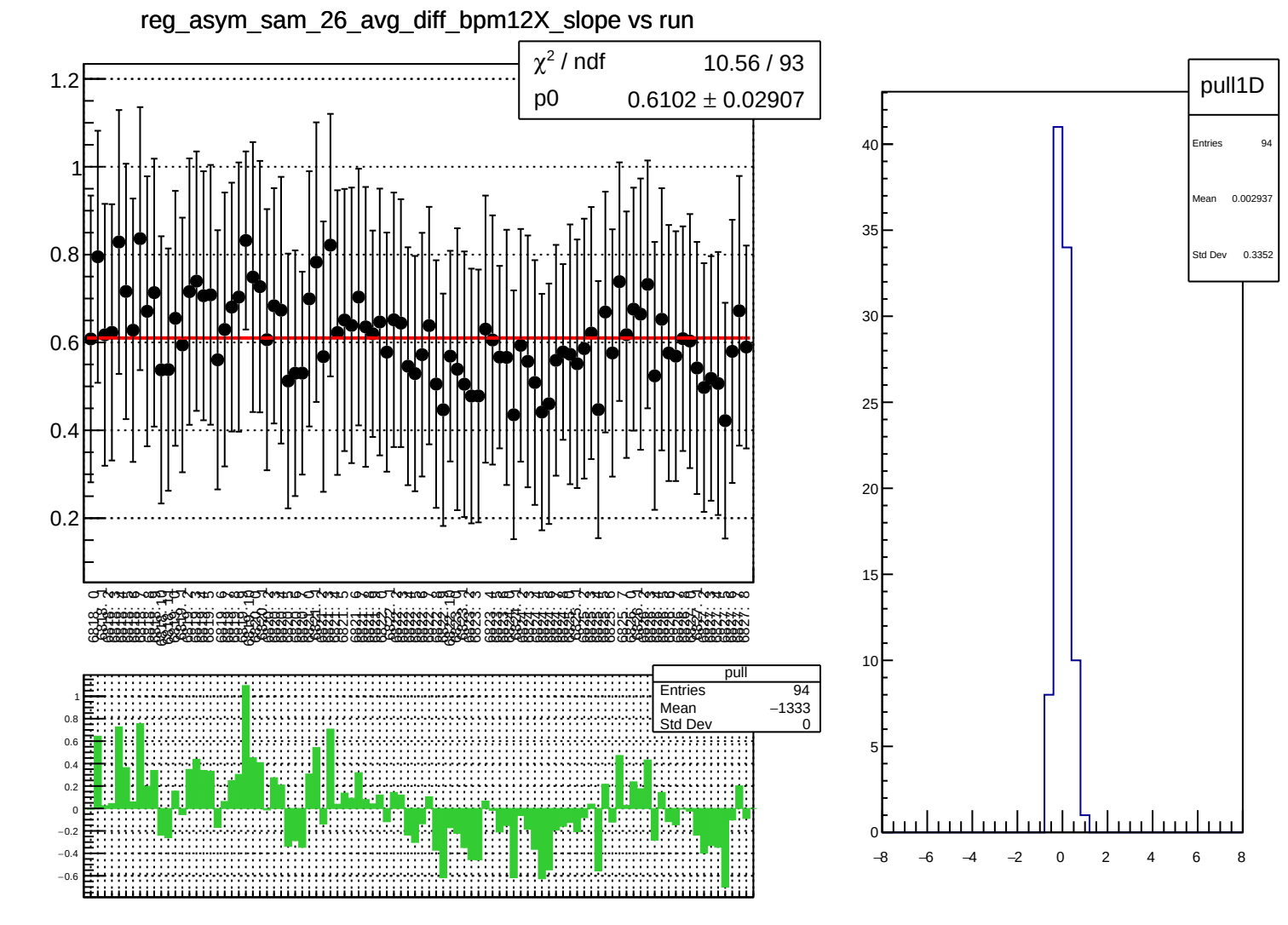

pull1D
Entries 94
Mean −0.001562
Std Dev 0.3464

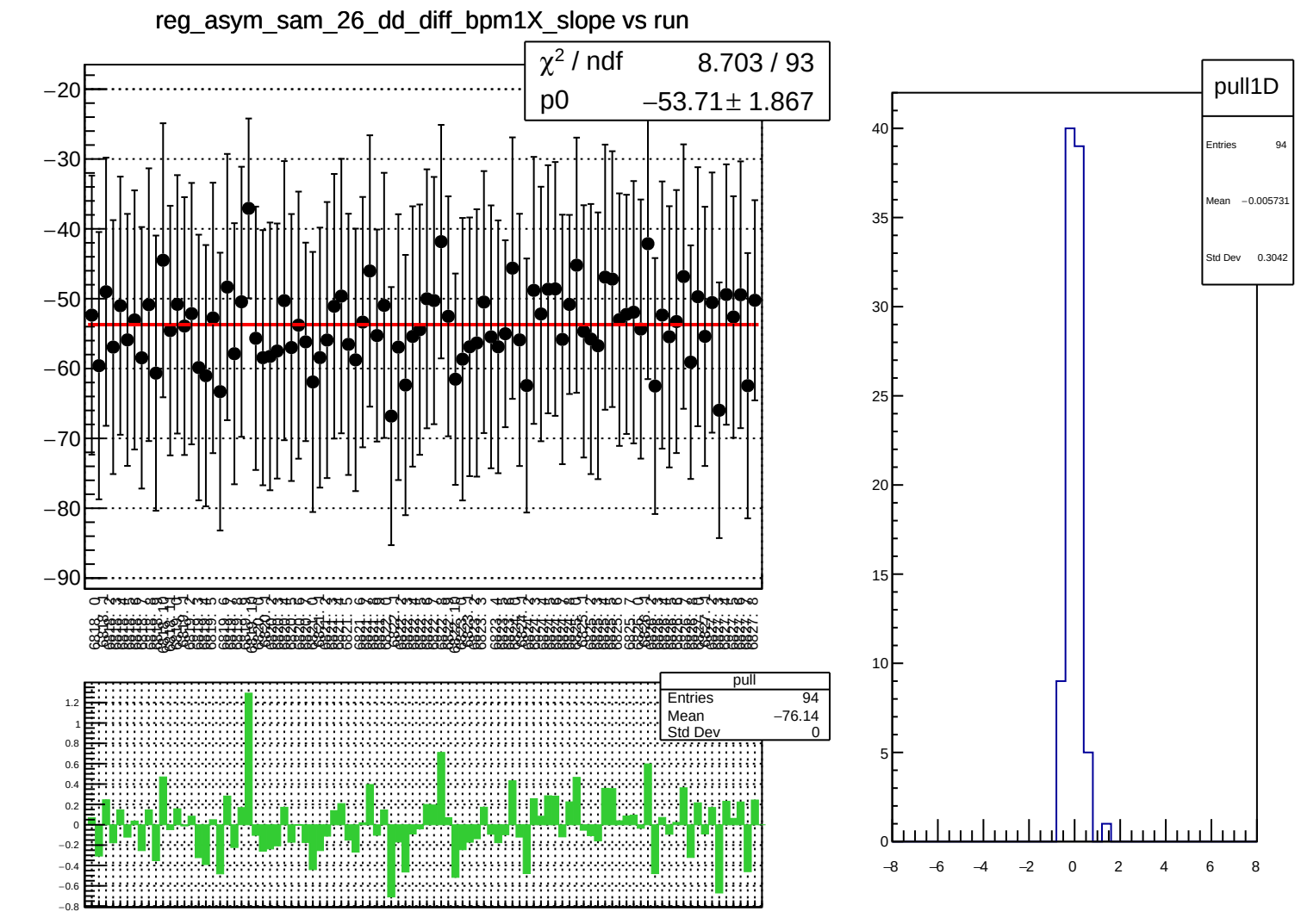

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.24 / 93
p0 2.798 ± 0.5116
pull
Entries 94
Mean 162.9
Std Dev 0
pull1D
Entries 94
Mean −0.05003
Std Dev 0.4838

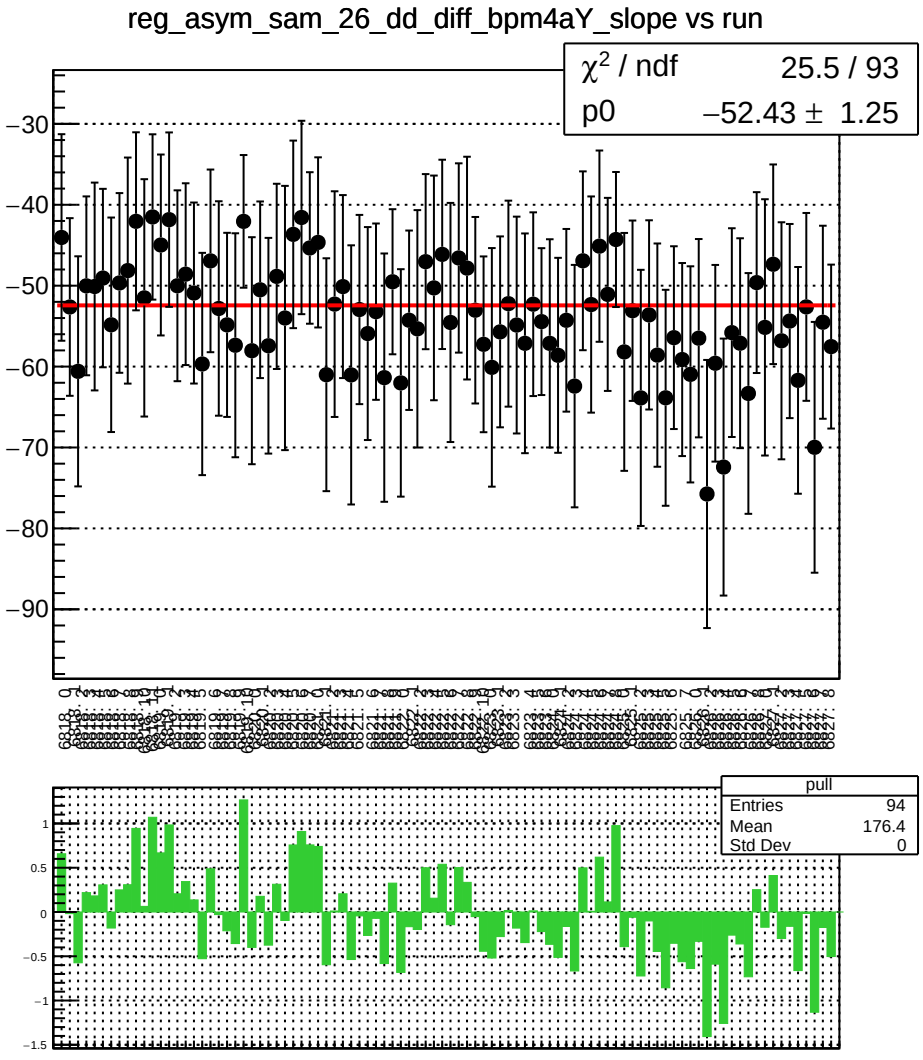

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.49 / 93
p0 −48.79 ± 0.7166
pull
Entries 94
Mean 37.28
Std Dev 40.56

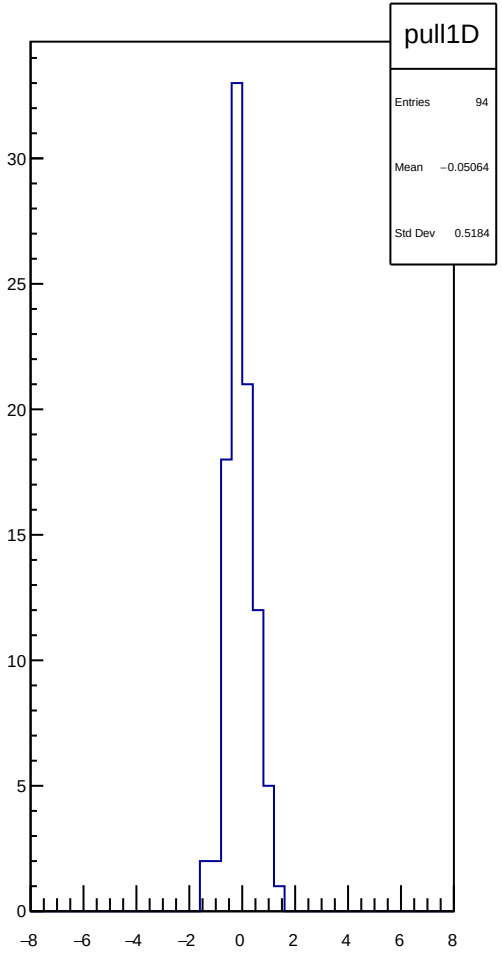

pull1D
Entries 94
Mean −0.008001
Std Dev 0.4313

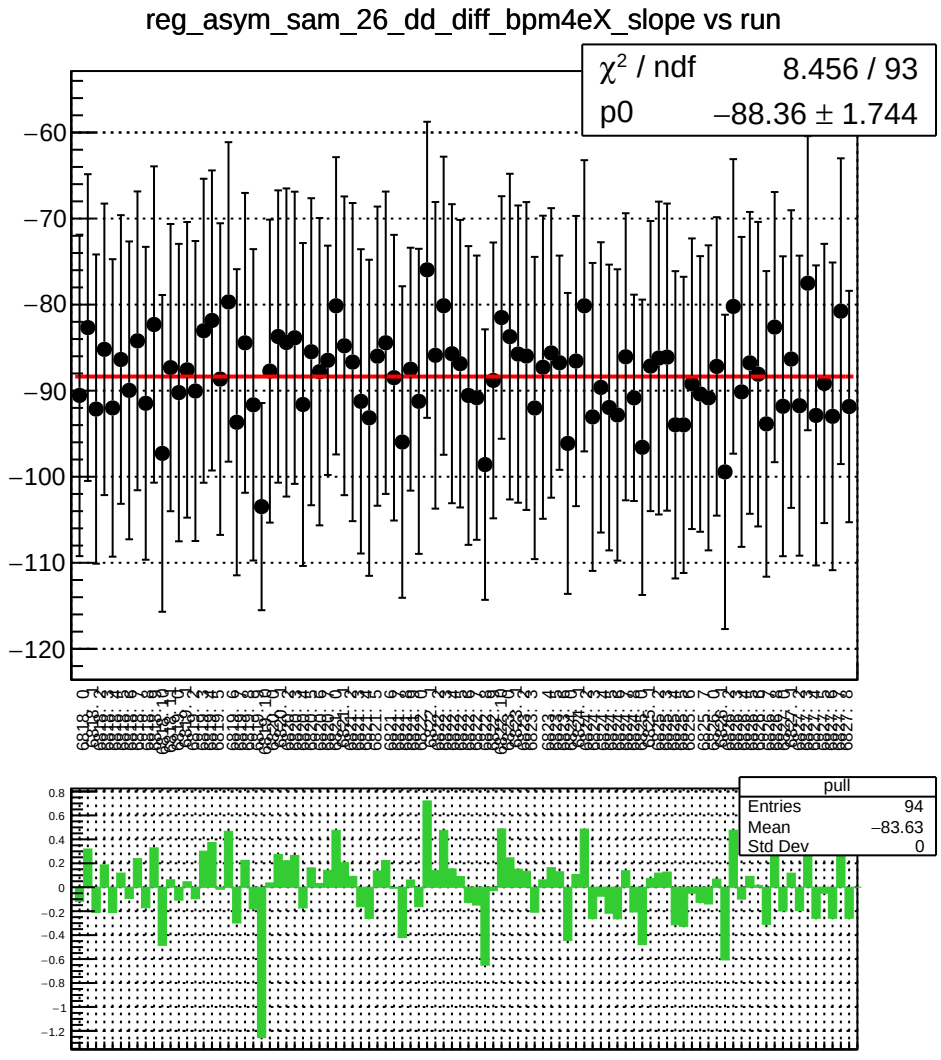

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.2 / 93
p0 −38.28 ± 0.593
pull
Entries 94
Mean 397.2
Std Dev 0
pull1D
Entries 94
Mean 0.01791
Std Dev 0.4856

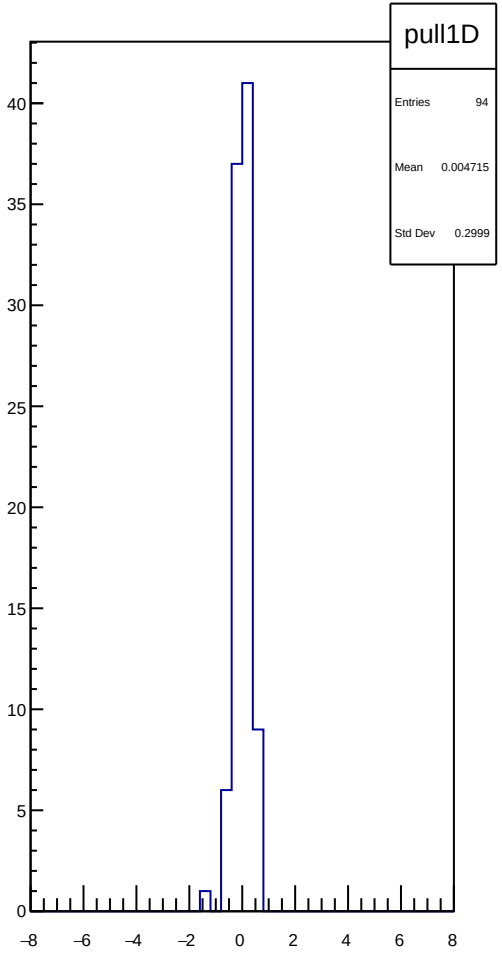

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 10.56 / 93
p0 0.6102 ± 0.02907
pull
Entries 94
Mean −1333
Std Dev 0
pull1D
Entries 94
Mean 0.002937
Std Dev 0.3352

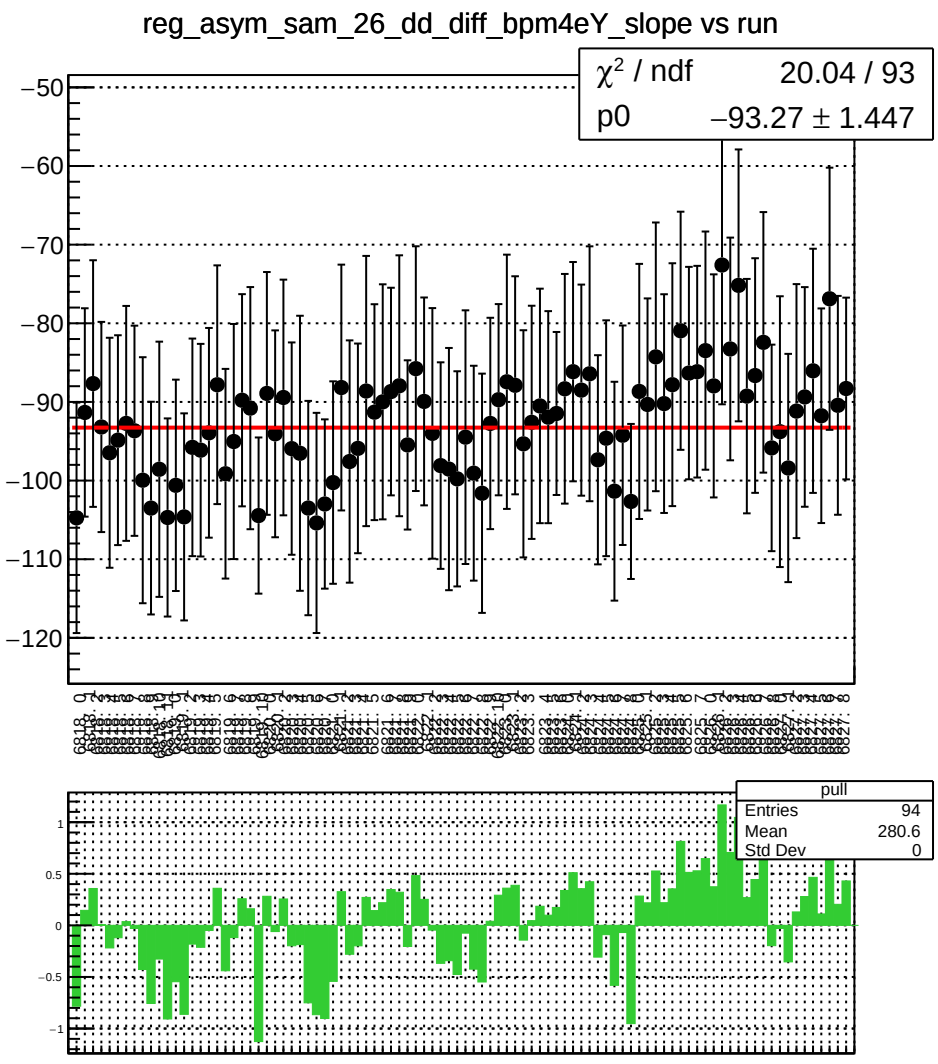

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 8.703 / 93
p0 −53.71± 1.867
pull
Entries 94
Mean −76.14
Std Dev 0
pull1D
Entries 94
Mean −0.005731
Std Dev 0.3042

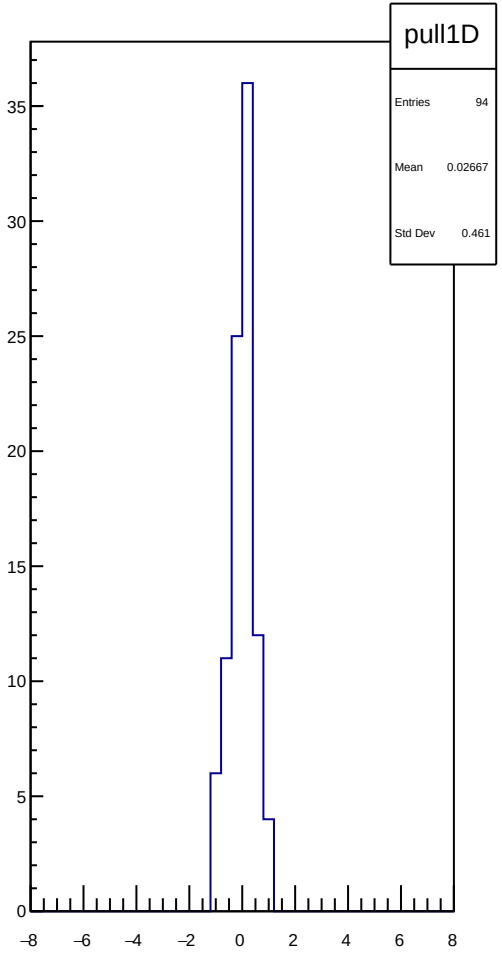

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.5 / 93
p0 −52.43 ± 1.25
pull
Entries 94
Mean 176.4
Std Dev 0

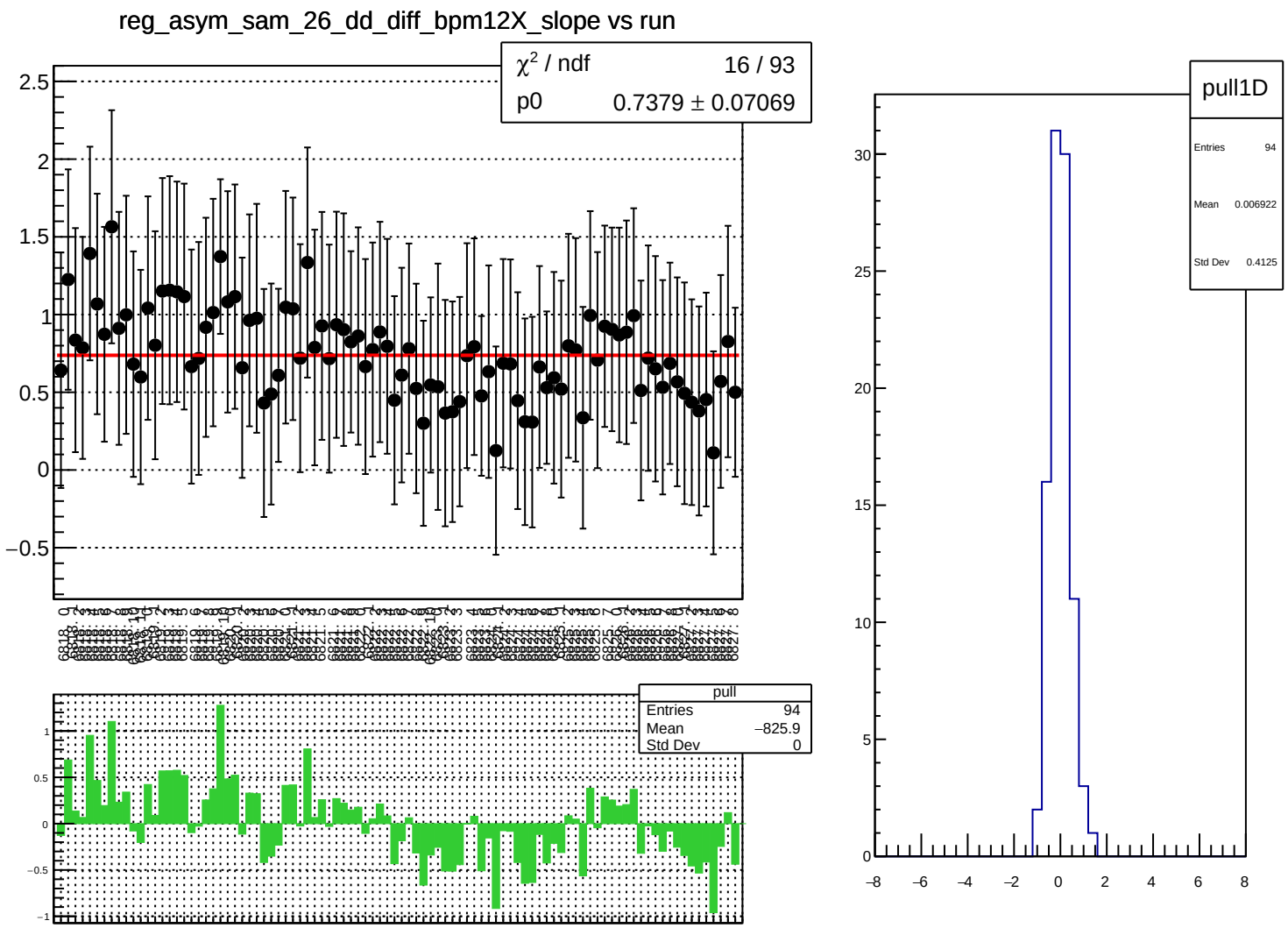

pull1D
Entries 94
Mean −0.05064
Std Dev 0.5184

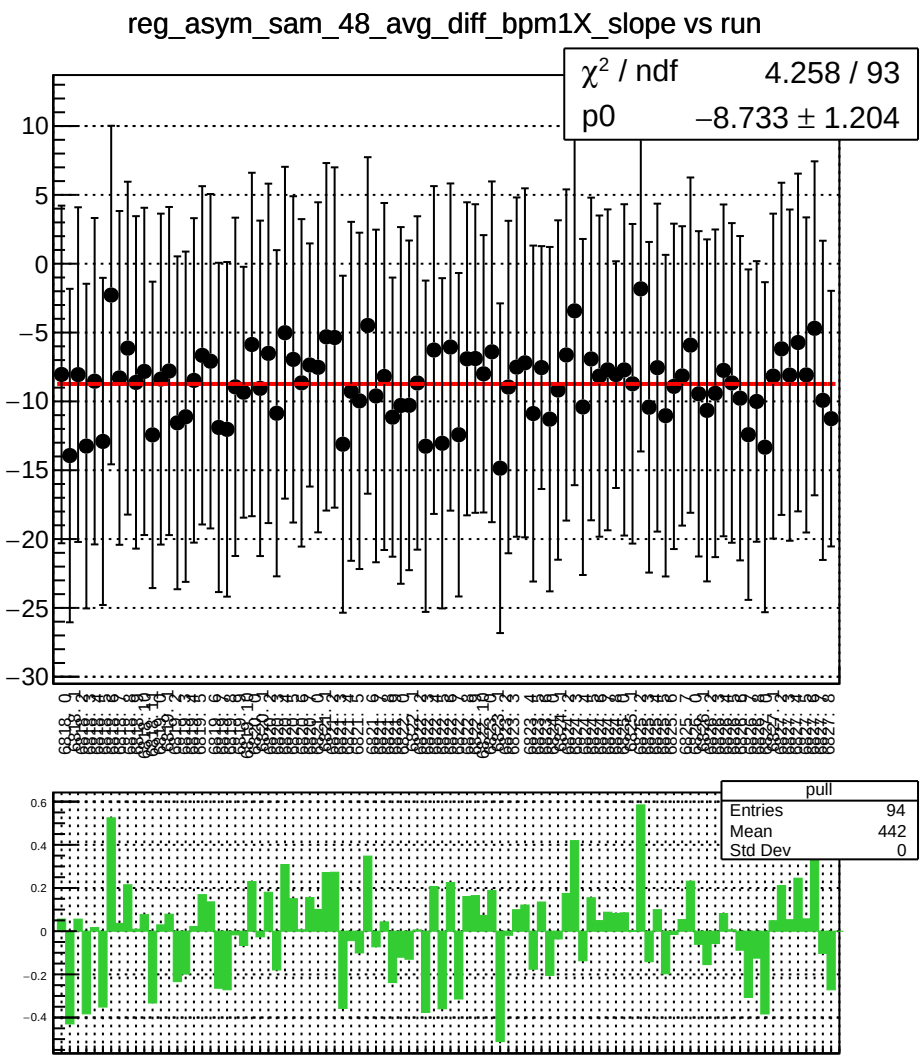

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.456 / 93
p0 −88.36 ± 1.744
pull
Entries 94
Mean −83.63
Std Dev 0

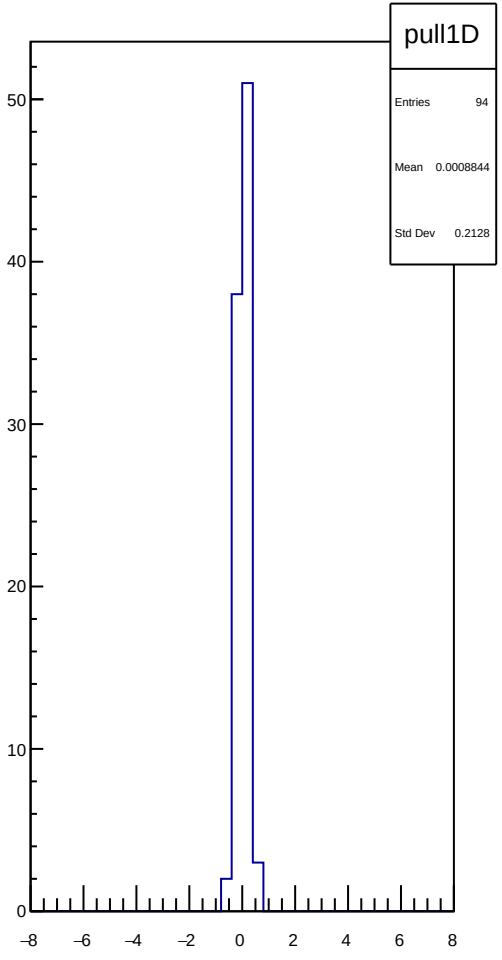

pull1D
Entries 94
Mean 0.004715
Std Dev 0.2999

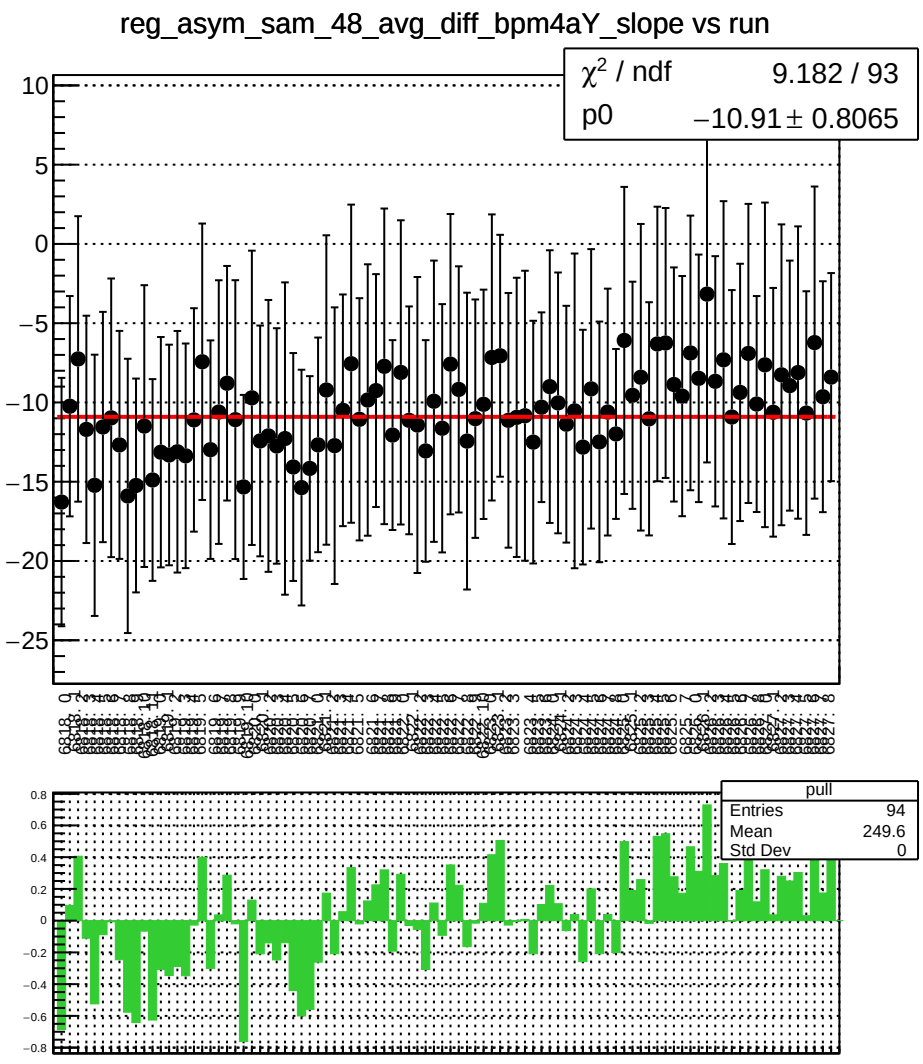

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.04 / 93
p0 −93.27 ± 1.447
pull
Entries 94
Mean 280.6
Std Dev 0

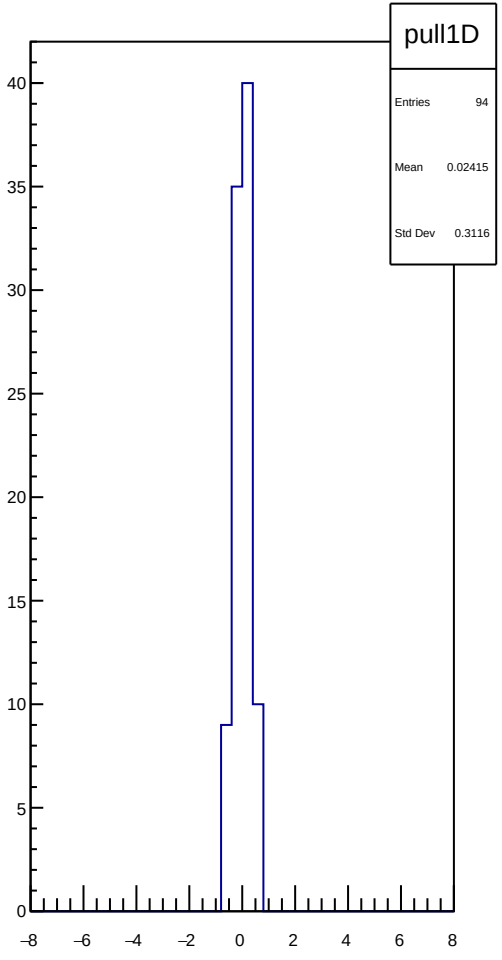

pull1D
Entries 94
Mean 0.02667
Std Dev 0.461

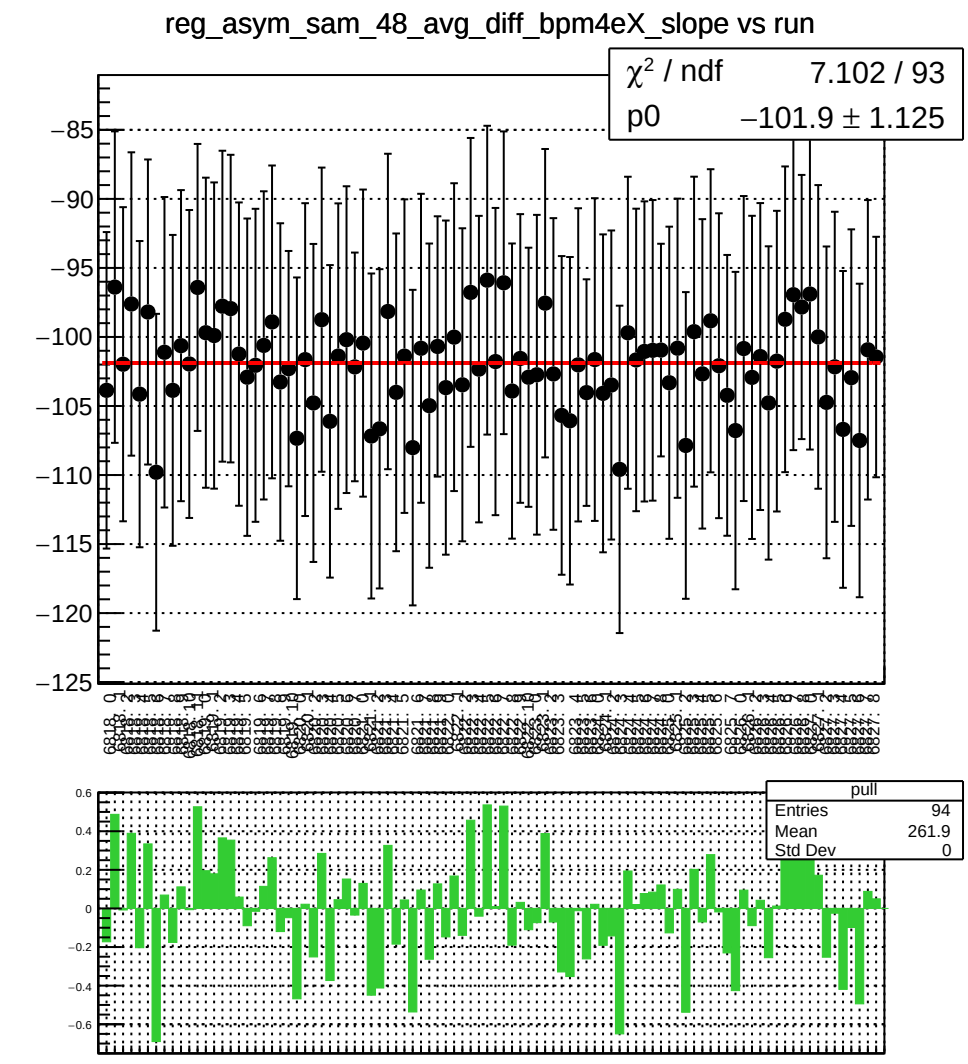

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 16 / 93
p0 0.7379 ± 0.07069
pull
Entries 94
Mean −825.9
Std Dev 0
pull1D
Entries 94
Mean 0.006922
Std Dev 0.4125

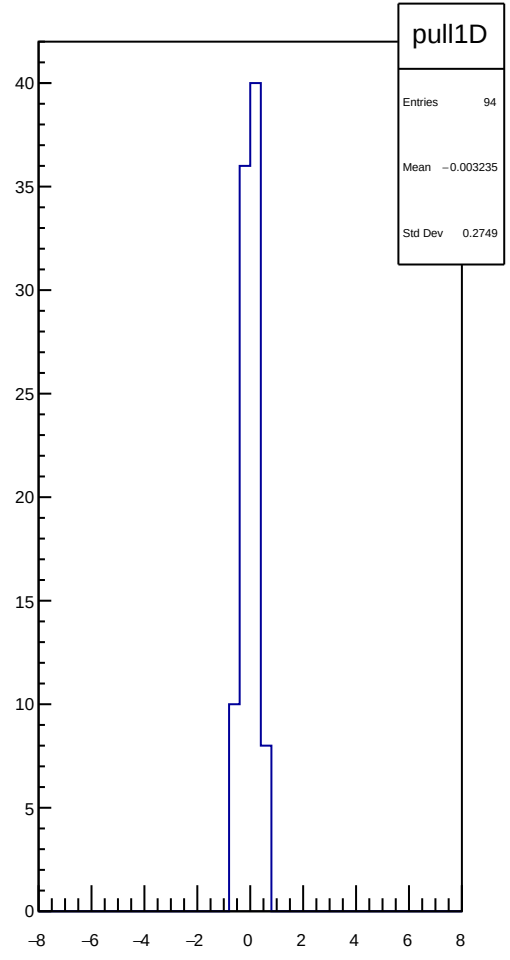

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 4.258 / 93
p0 −8.733 ± 1.204
pull
Entries 94
Mean 442
Std Dev 0

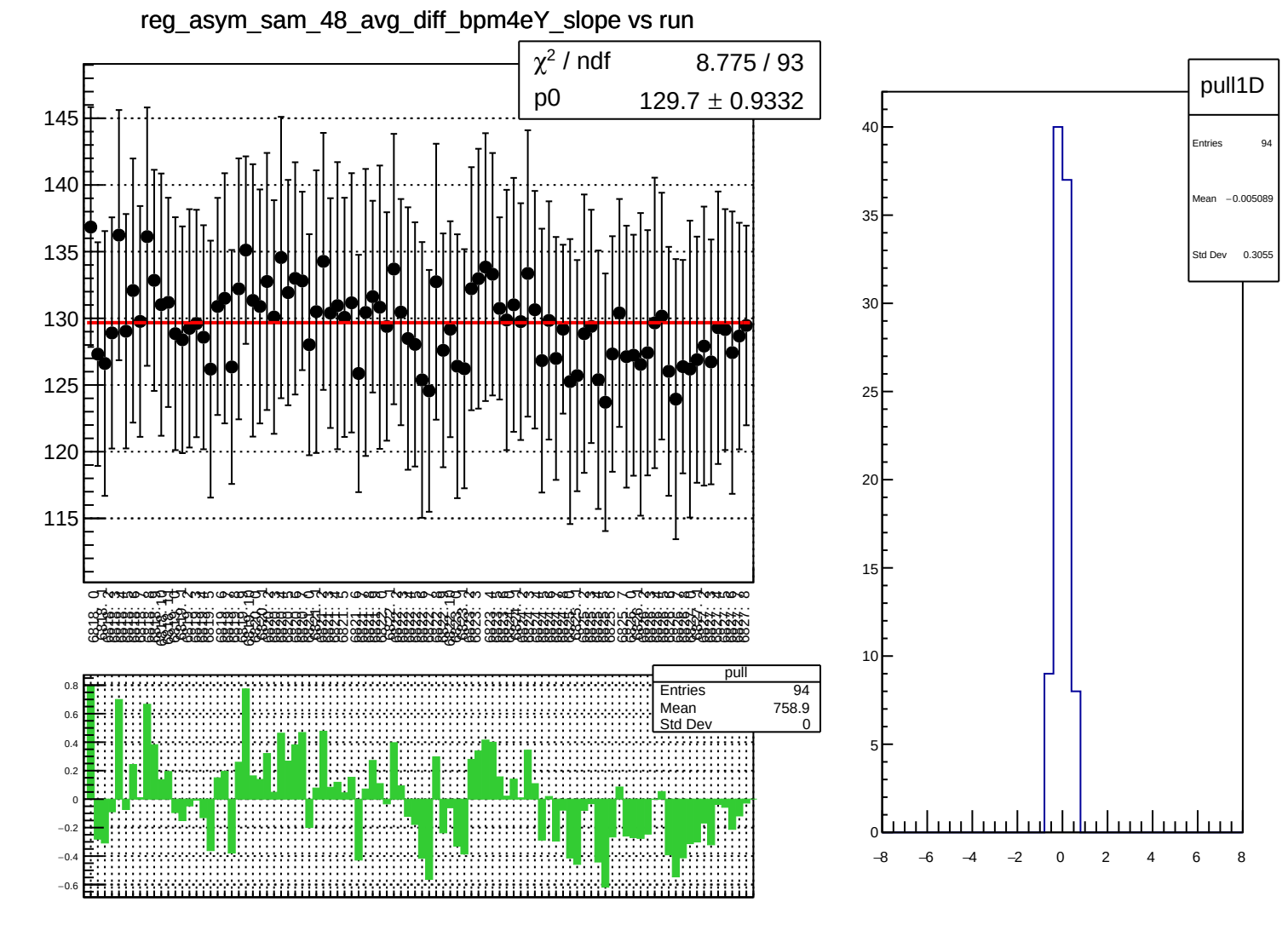

pull1D
Entries 94
Mean 0.0008844
Std Dev 0.2128

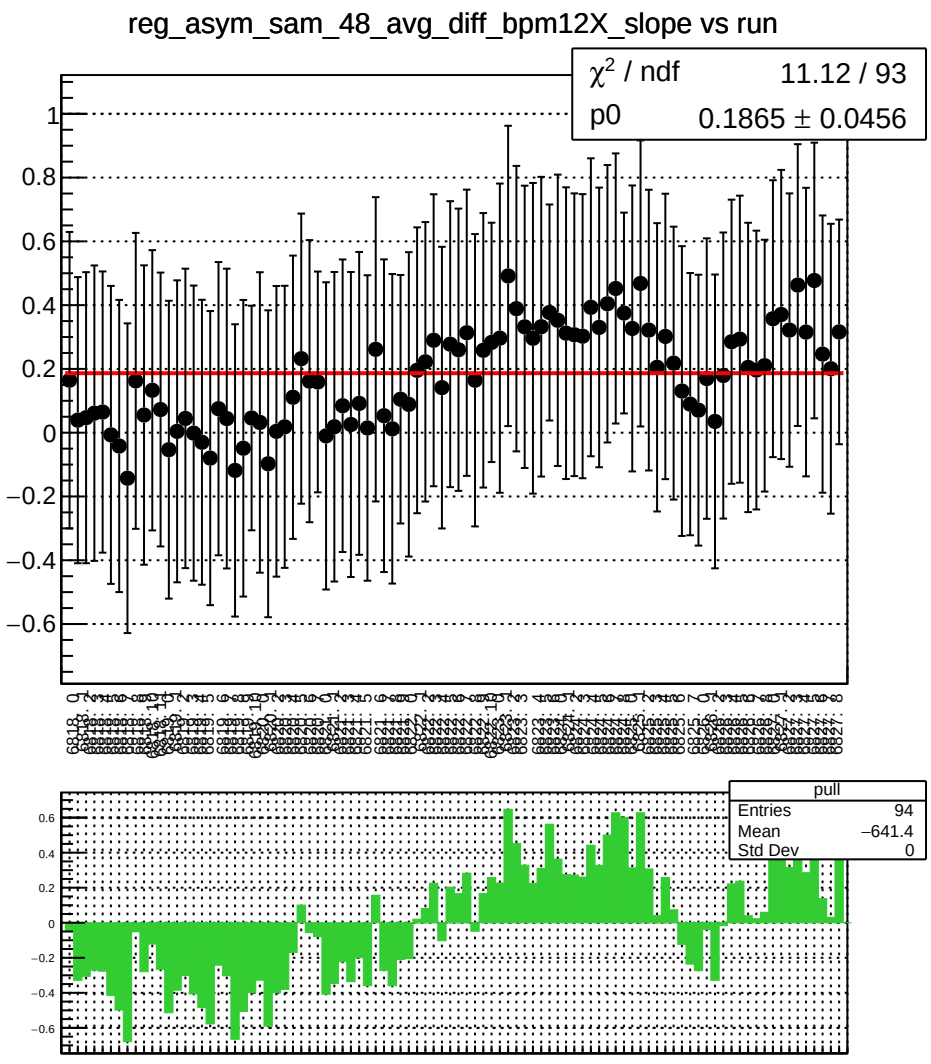

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.182 / 93
p0 −10.91 ± 0.8065
pull
Entries 94
Mean 249.6
Std Dev 0

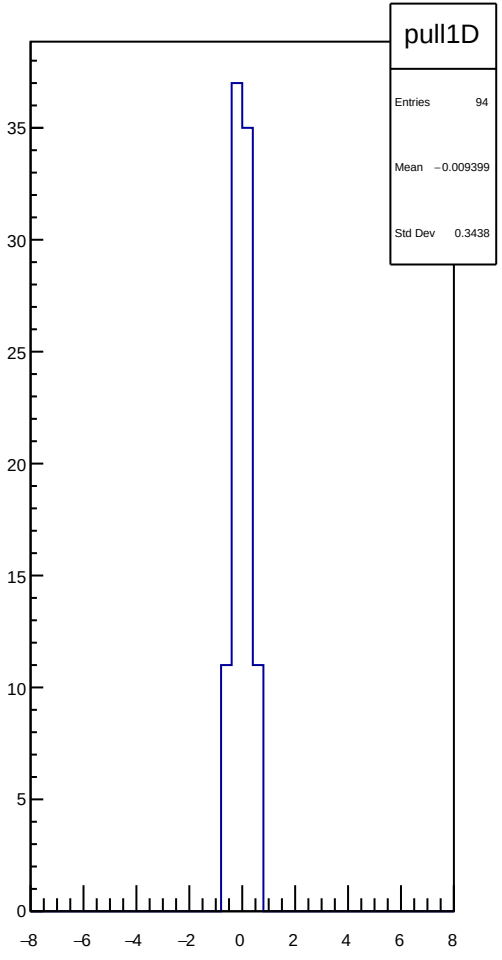

pull1D
Entries 94
Mean 0.02415
Std Dev 0.3116

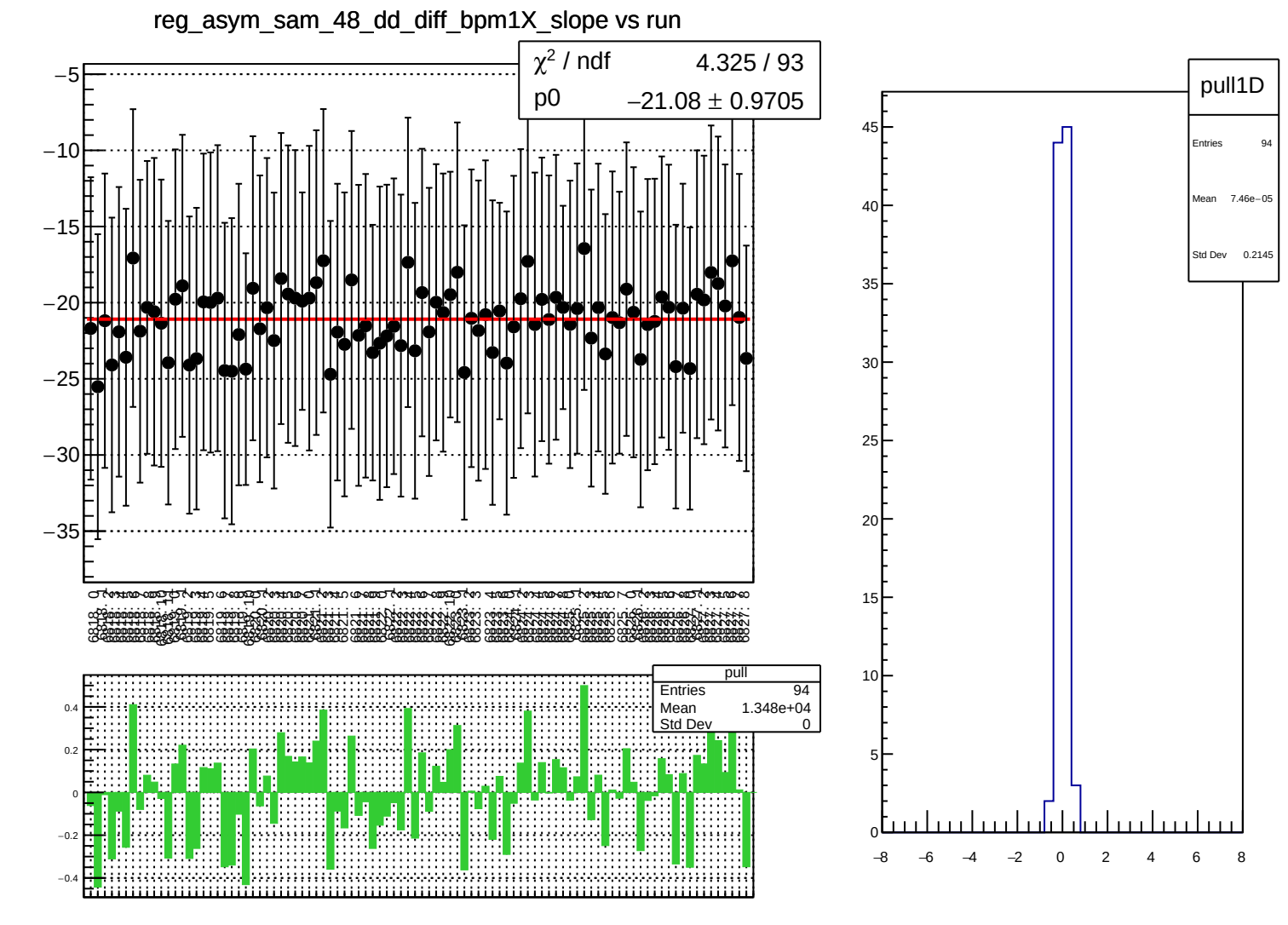

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.102 / 93
p0 −101.9 ± 1.125
pull
Entries 94
Mean 261.9
Std Dev 0

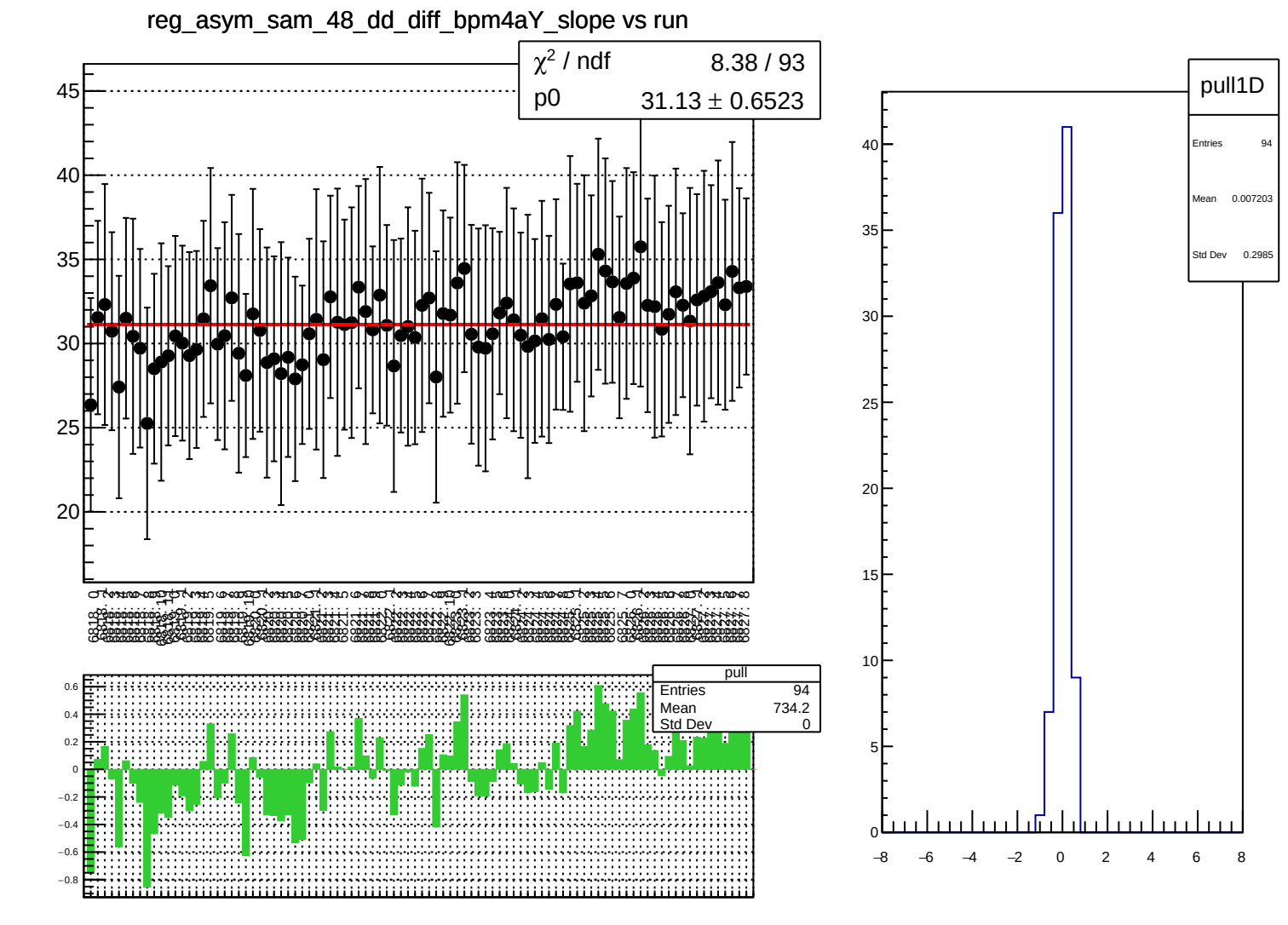

pull1D
Entries 94
Mean −0.003235
Std Dev 0.2749

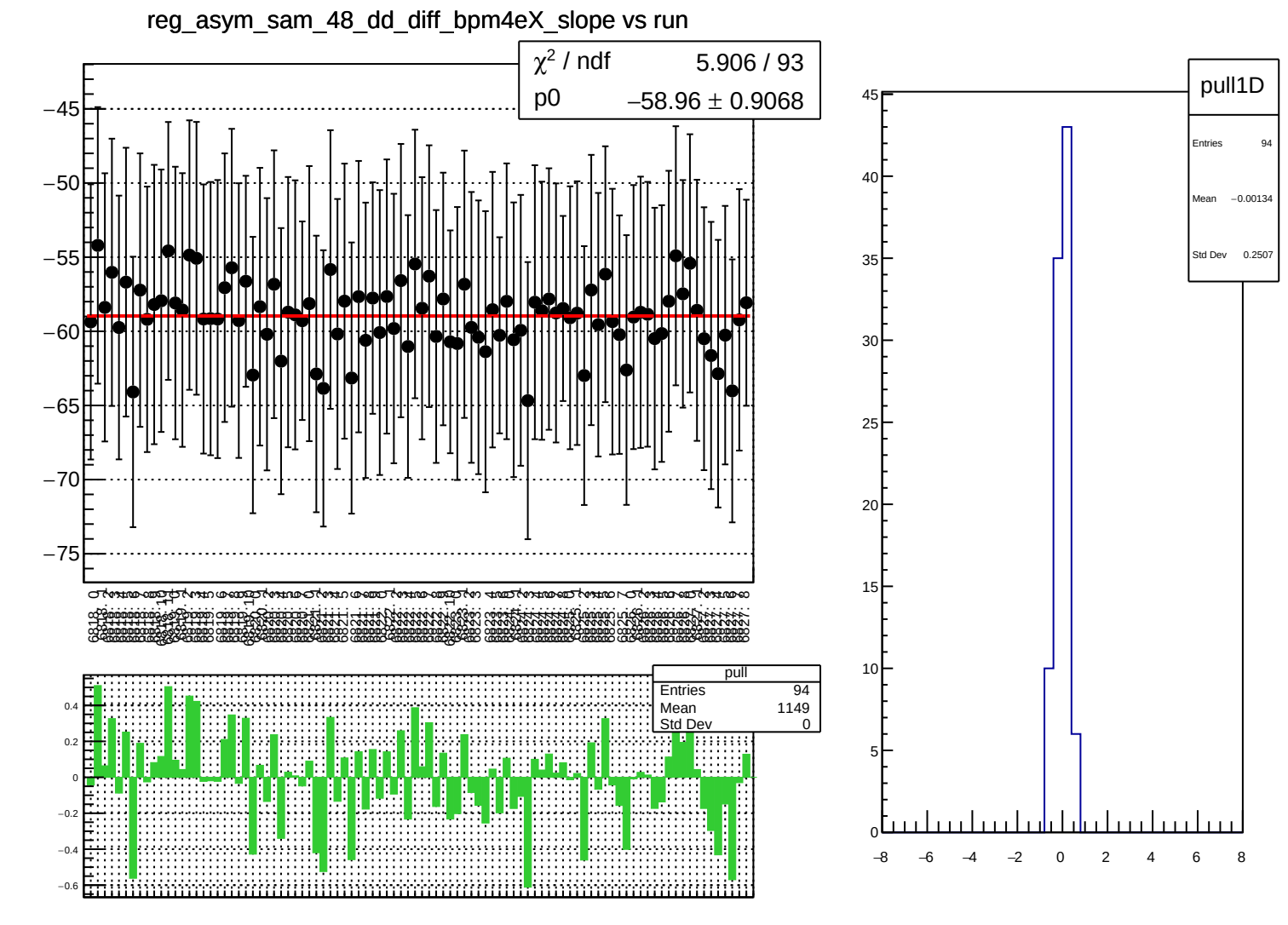

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.775 / 93
p0 129.7 ± 0.9332
145
140
135
130
125
120
115
pull
Entries 94
Mean 758.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.005089
Std Dev 0.3055
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

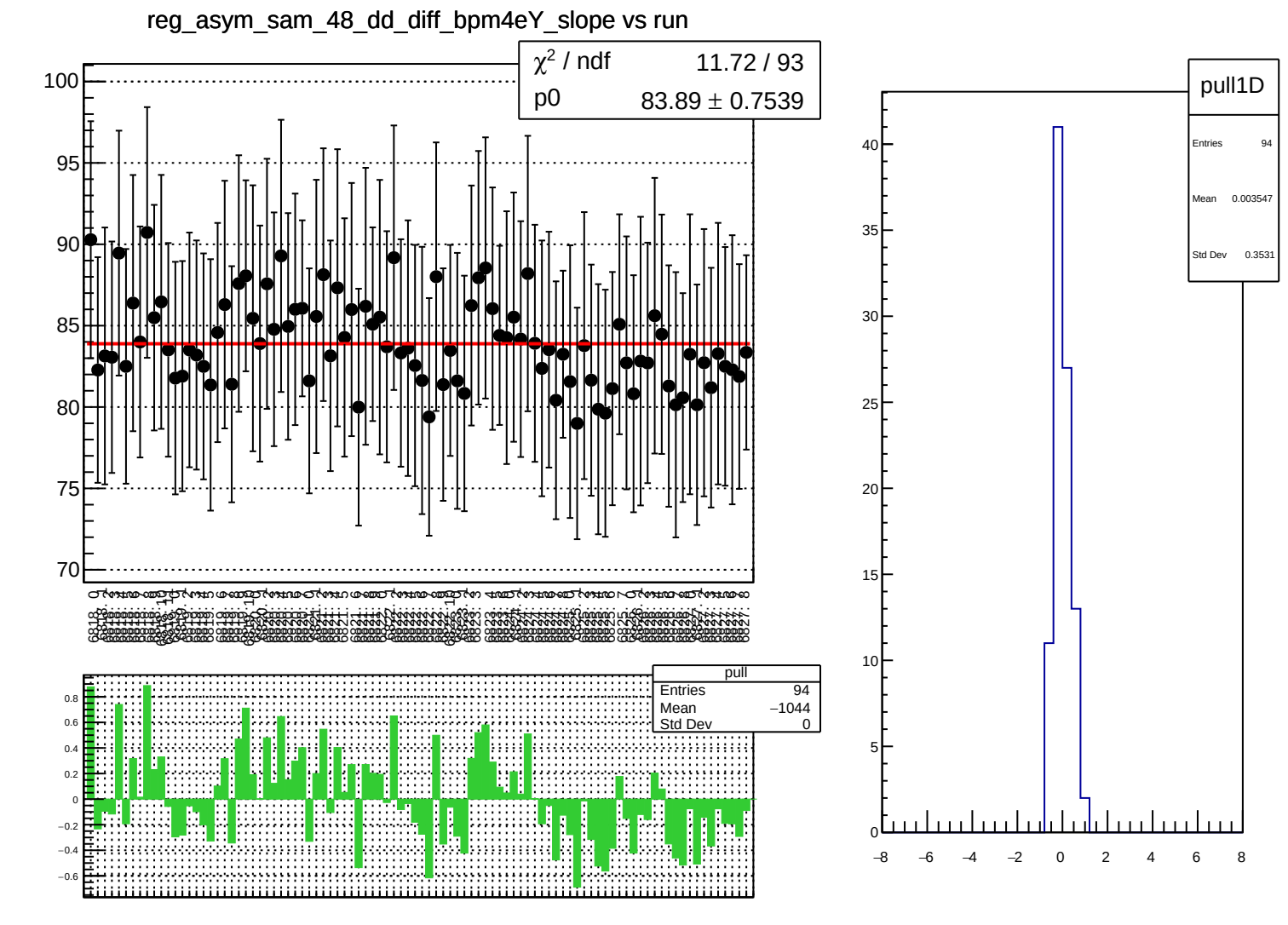

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 11.12 / 93
p0 0.1865 ± 0.0456
pull
Entries 94
Mean −641.4
Std Dev 0

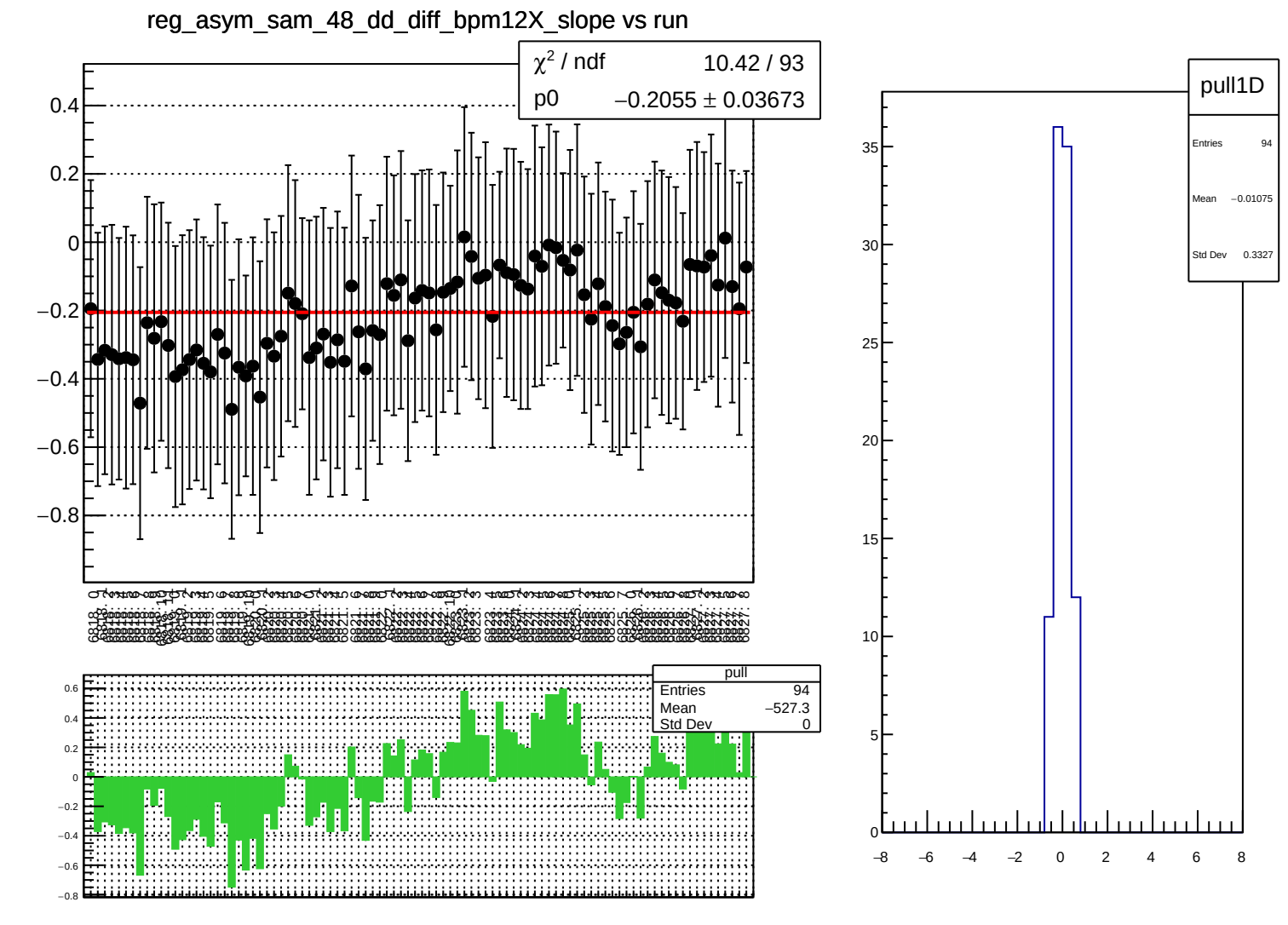

pull1D
Entries 94
Mean −0.009399
Std Dev 0.3438

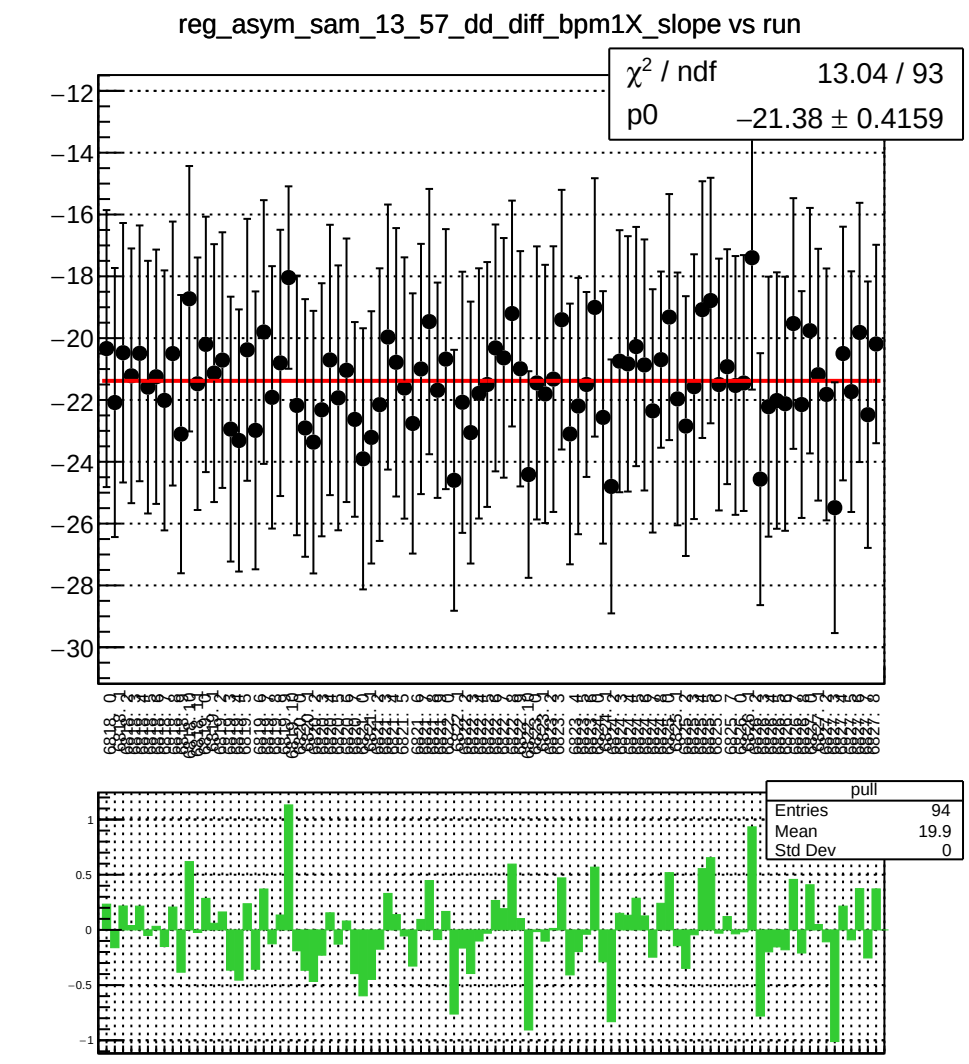

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.325 / 93
p0 −21.08 ± 0.9705
pull
Entries 94
Mean 1.348e+04
Std Dev 0
pull1D
Entries 94
Mean 7.46e−05
Std Dev 0.2145

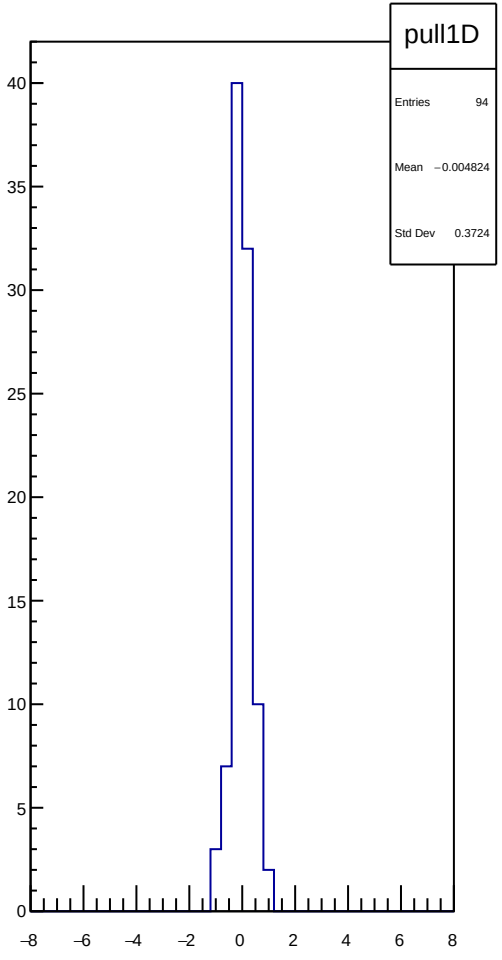

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.38 / 93
p0 31.13 ± 0.6523
pull
Entries 94
Mean 734.2
Std Dev 0
pull1D
Entries 94
Mean 0.007203
Std Dev 0.2985

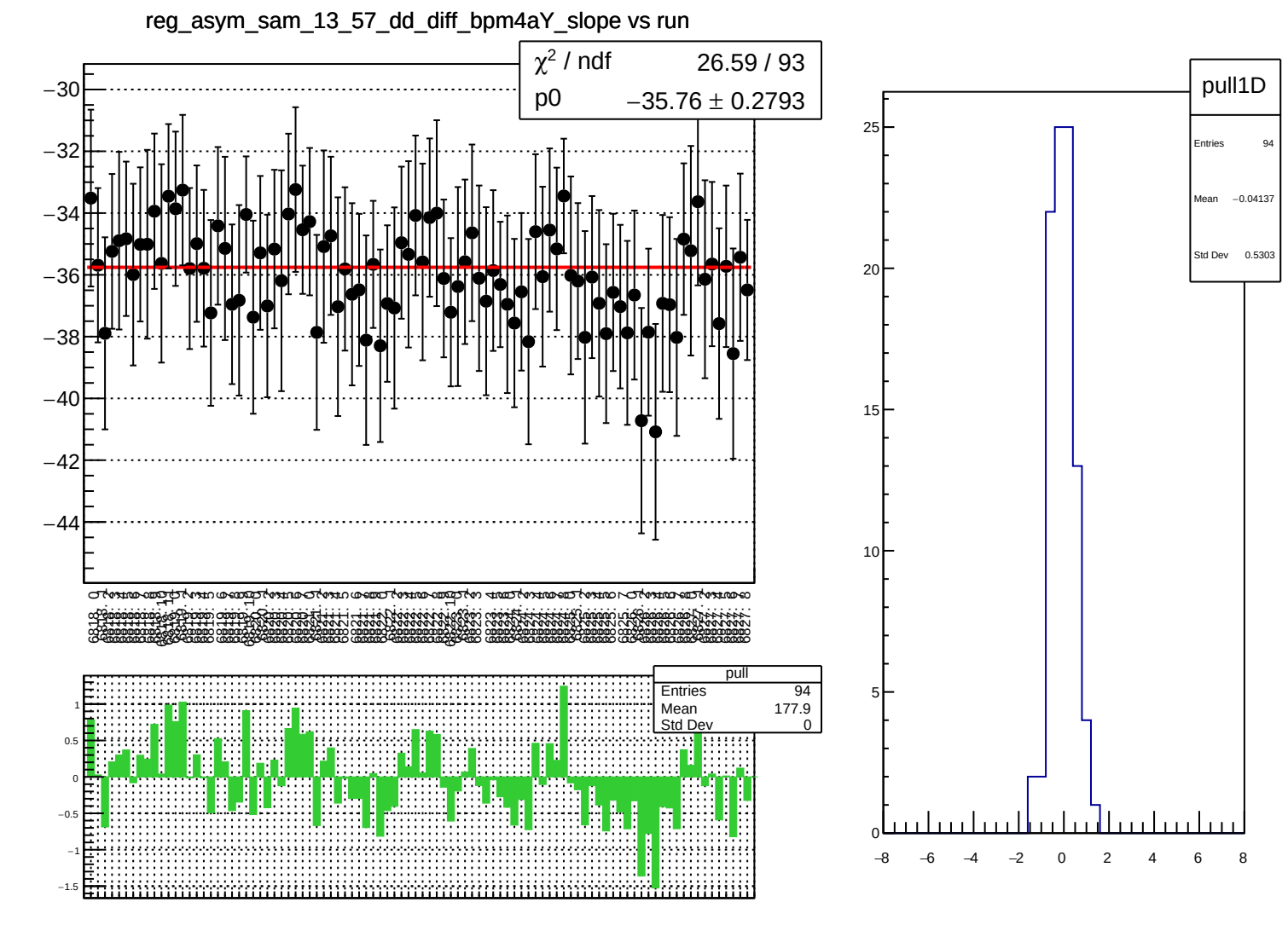

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.906 / 93
p0 −58.96 ± 0.9068
−45
−50
−55
−60
−65
−70
−75
pull
Entries 94
Mean 1149
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.00134
Std Dev 0.2507
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

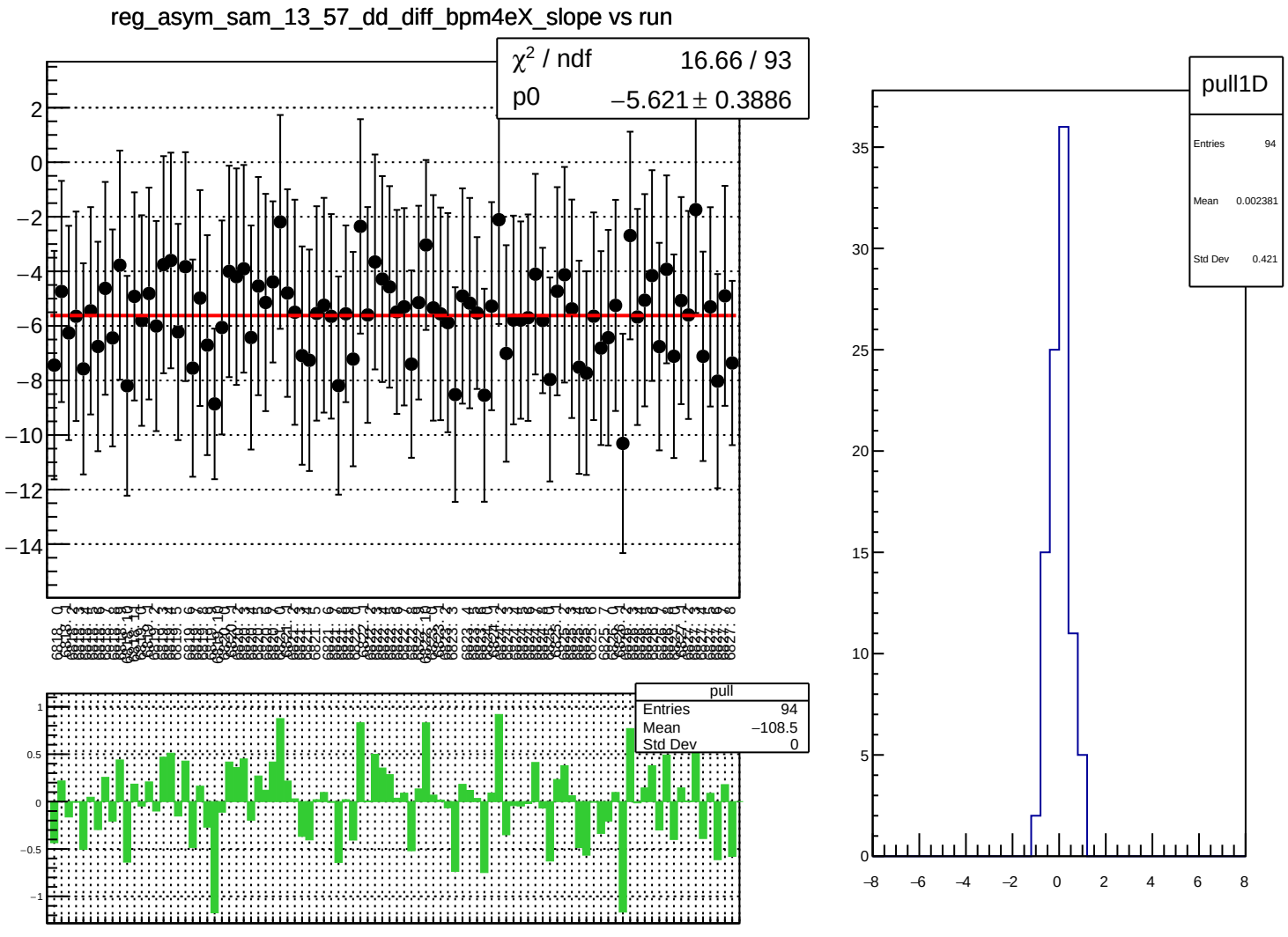

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.72 / 93
p0 83.89 ± 0.7539
pull
Entries 94
Mean −1044
Std Dev 0
pull1D
Entries 94
Mean 0.003547
Std Dev 0.3531

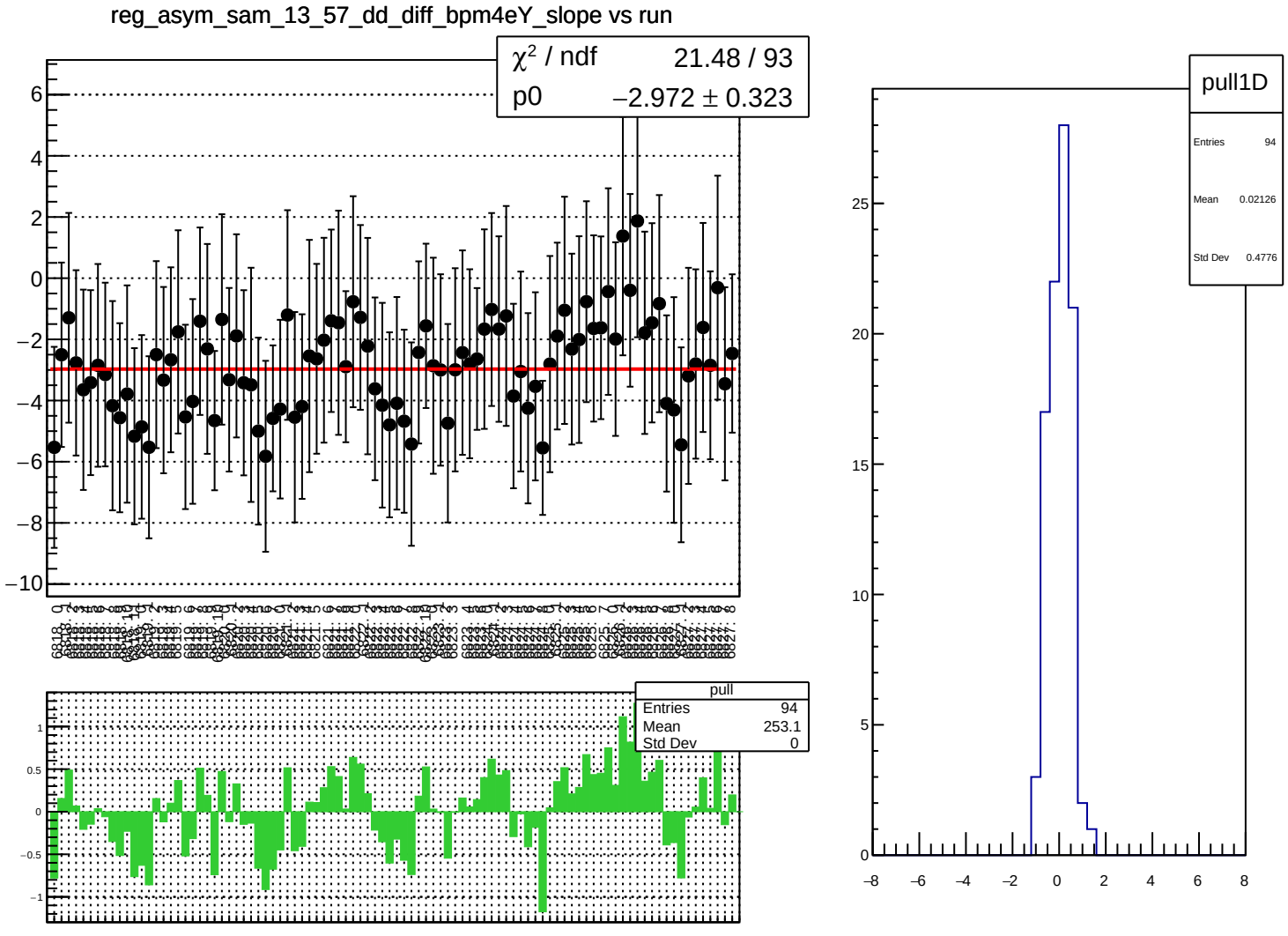

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.42 / 93
p0 −0.2055 ± 0.03673
pull
Entries 94
Mean −527.3
Std Dev 0
pull1D
Entries 94
Mean −0.01075
Std Dev 0.3327

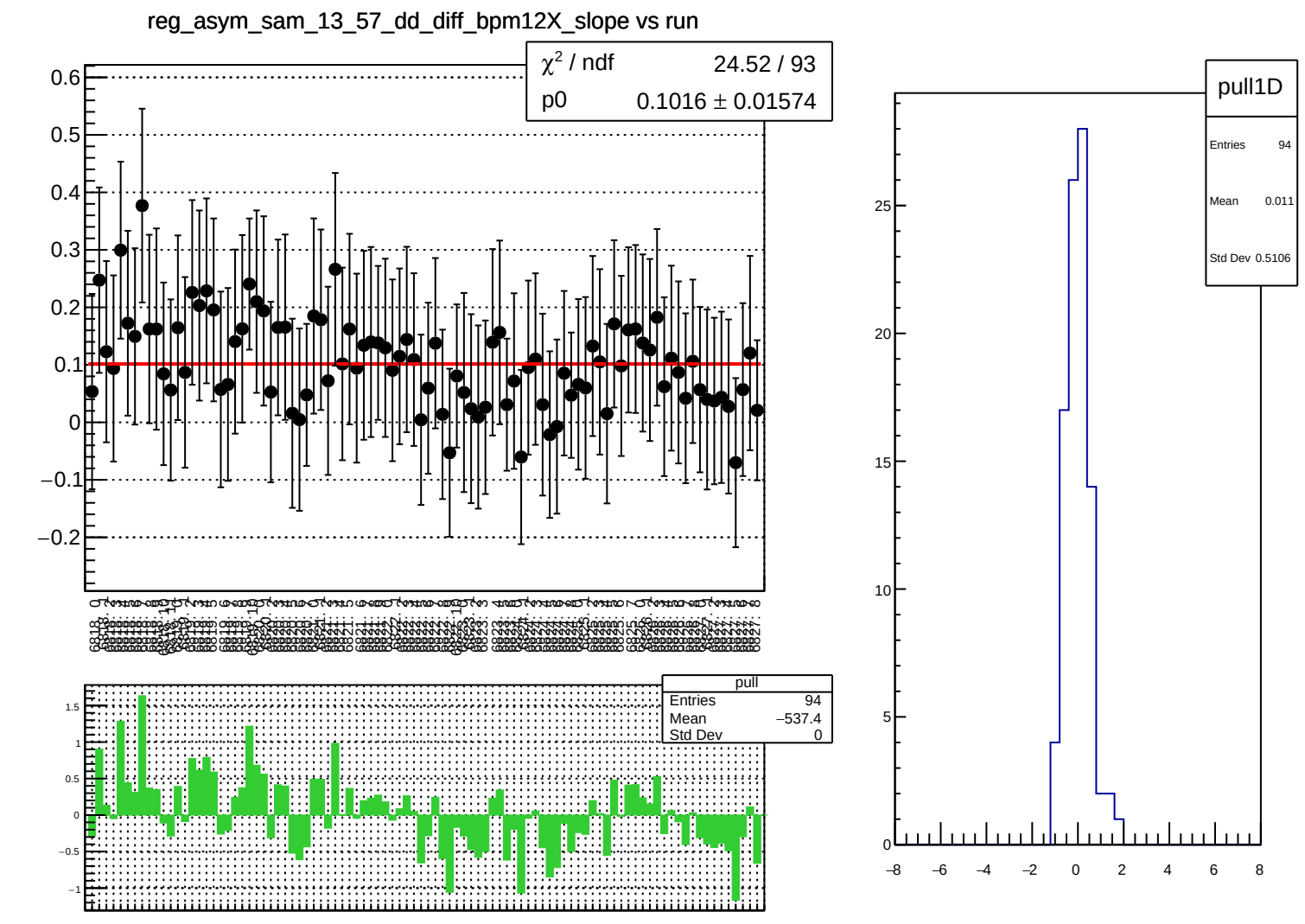

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 13.04 / 93
p0 −21.38 ± 0.4159
pull
Entries 94
Mean 19.9
Std Dev 0

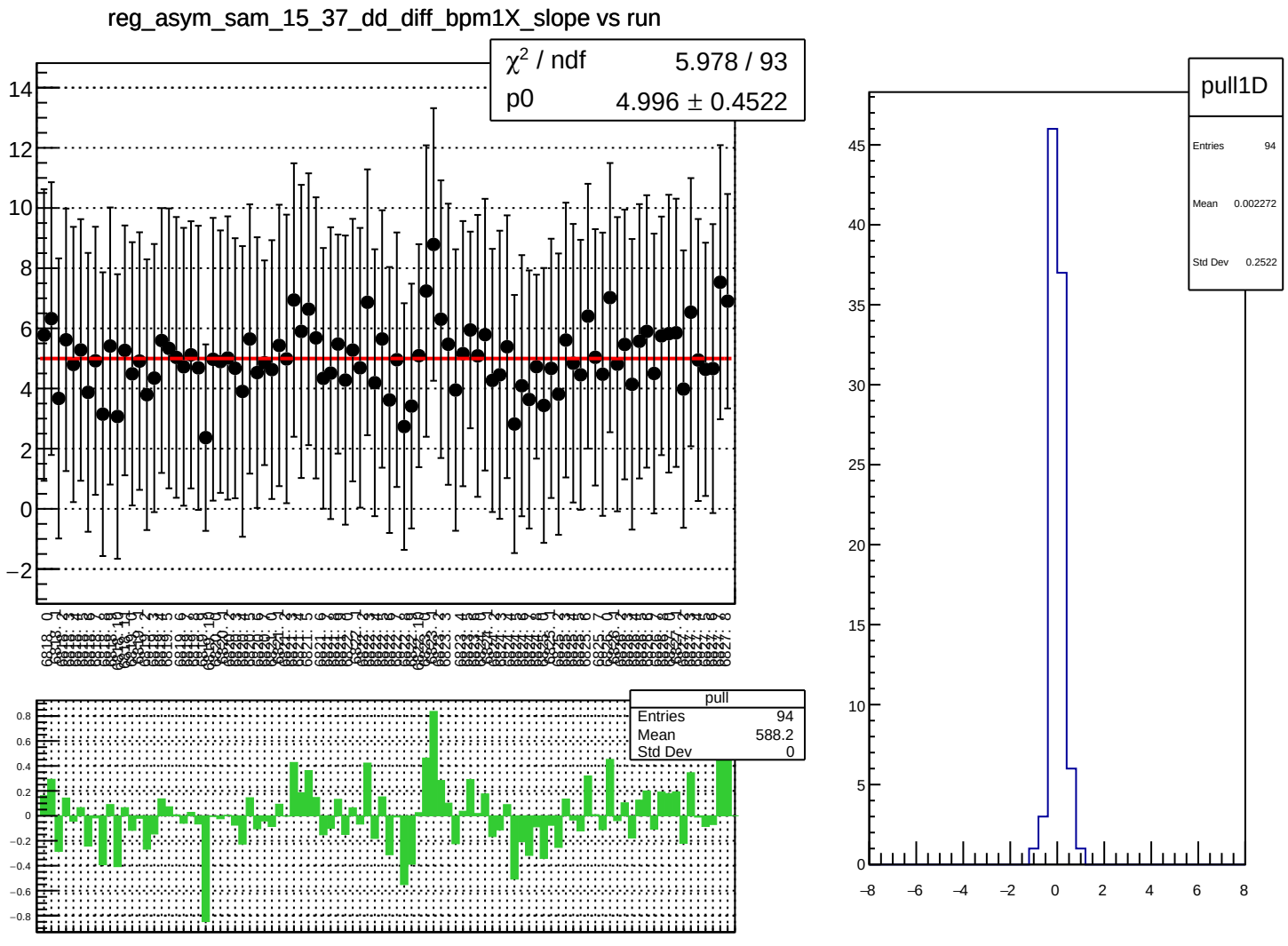

pull1D
Entries 94
Mean −0.004824
Std Dev 0.3724

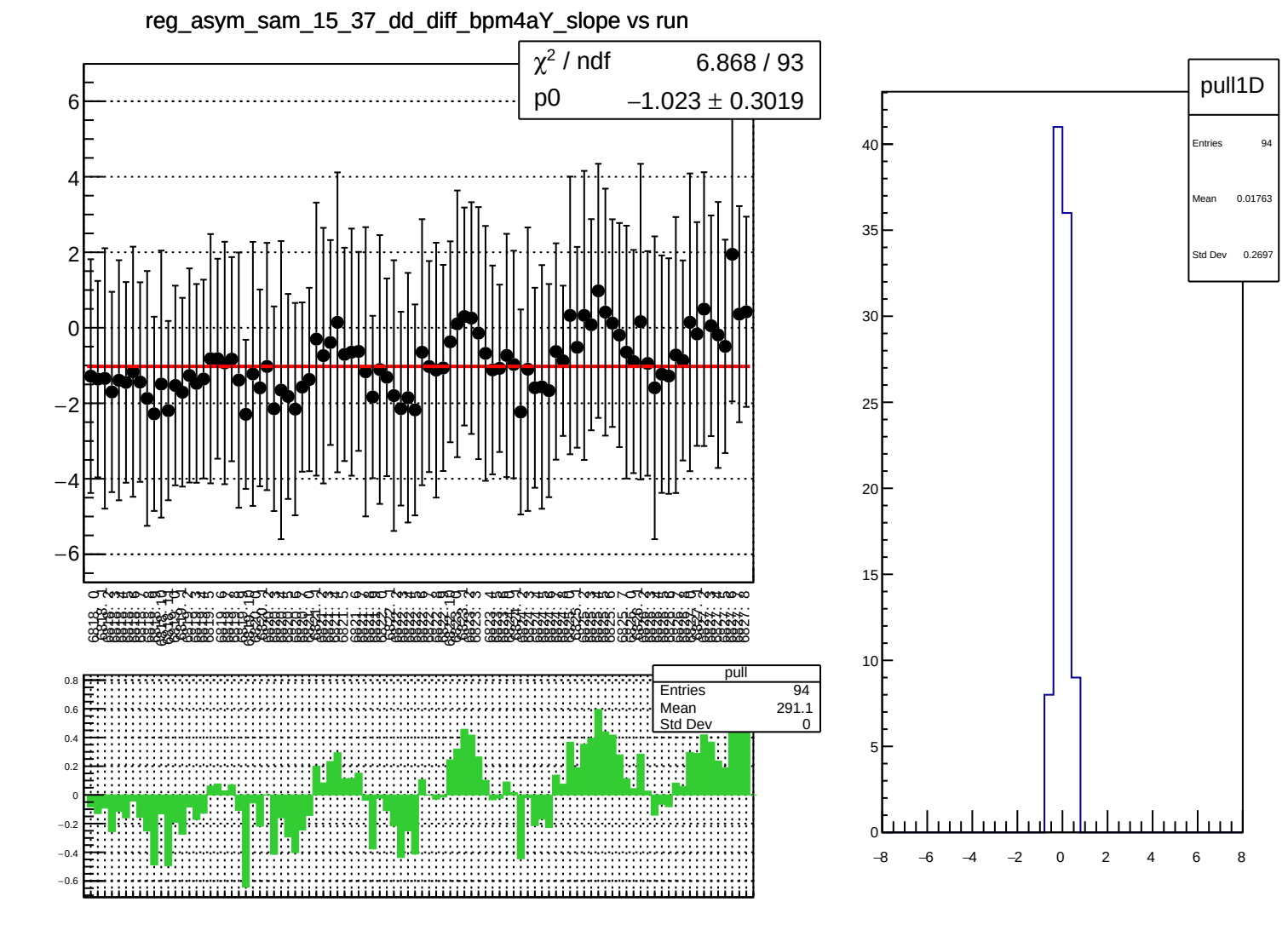

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.59 / 93
p0 −35.76 ± 0.2793
pull
Entries 94
Mean 177.9
Std Dev 0
pull1D
Entries 94
Mean −0.04137
Std Dev 0.5303

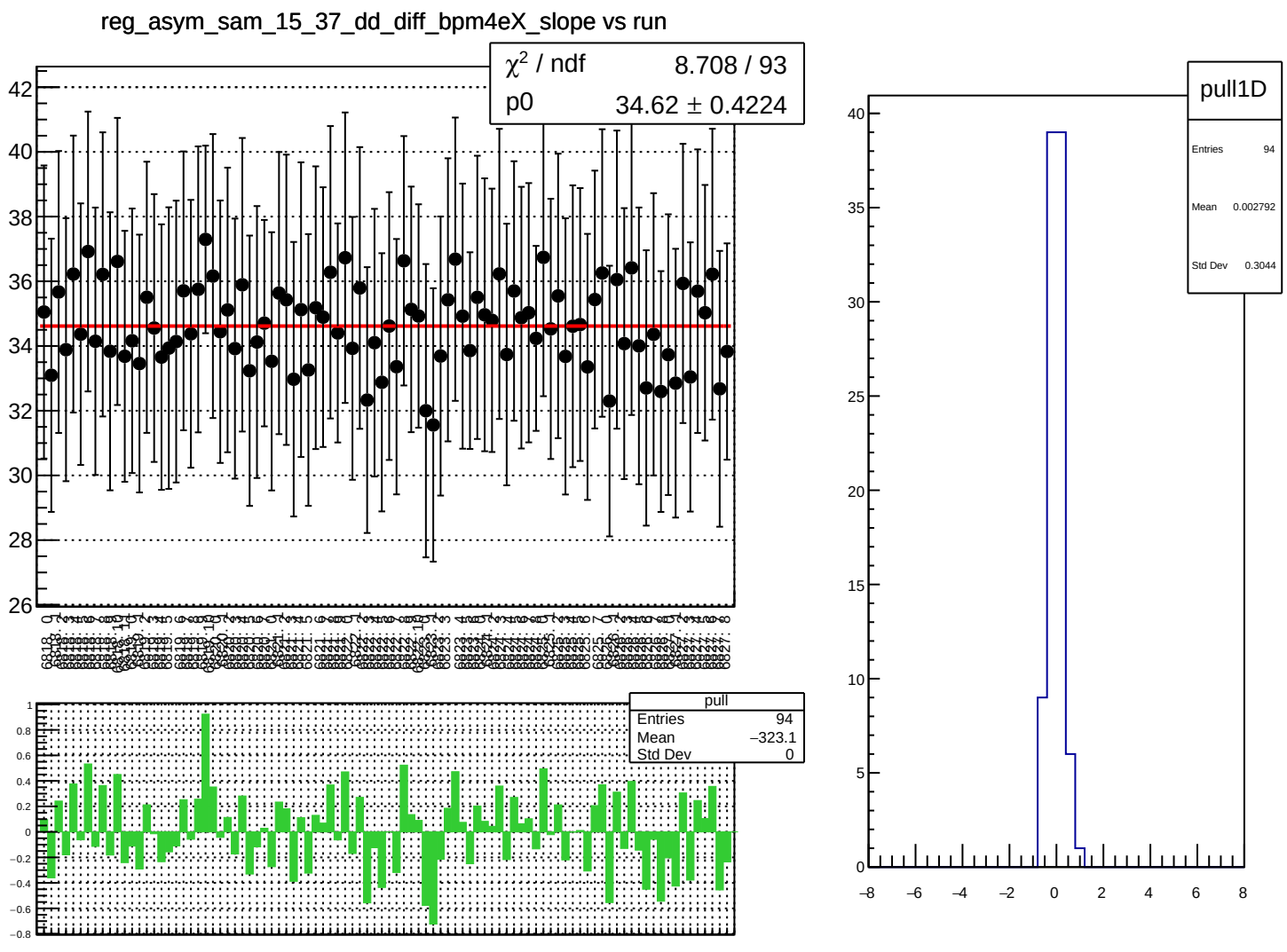

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.66 / 93
p0 −5.621 ± 0.3886
pull
Entries 94
Mean −108.5
Std Dev 0
pull1D
Entries 94
Mean 0.002381
Std Dev 0.421

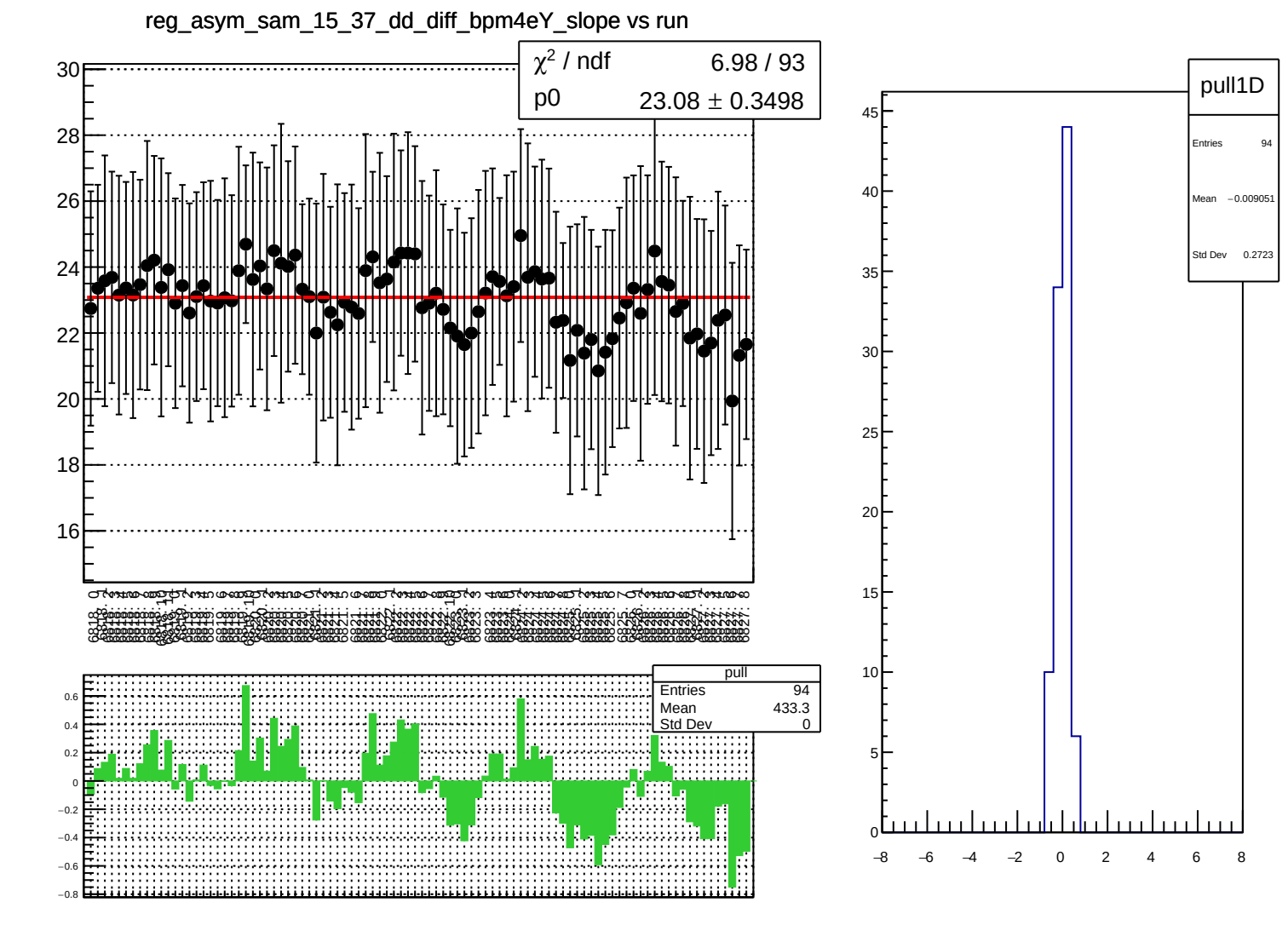

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.48 / 93
p0 −2.972 ± 0.323
pull
Entries 94
Mean 253.1
Std Dev 0
pull1D
Entries 94
Mean 0.02126
Std Dev 0.4776

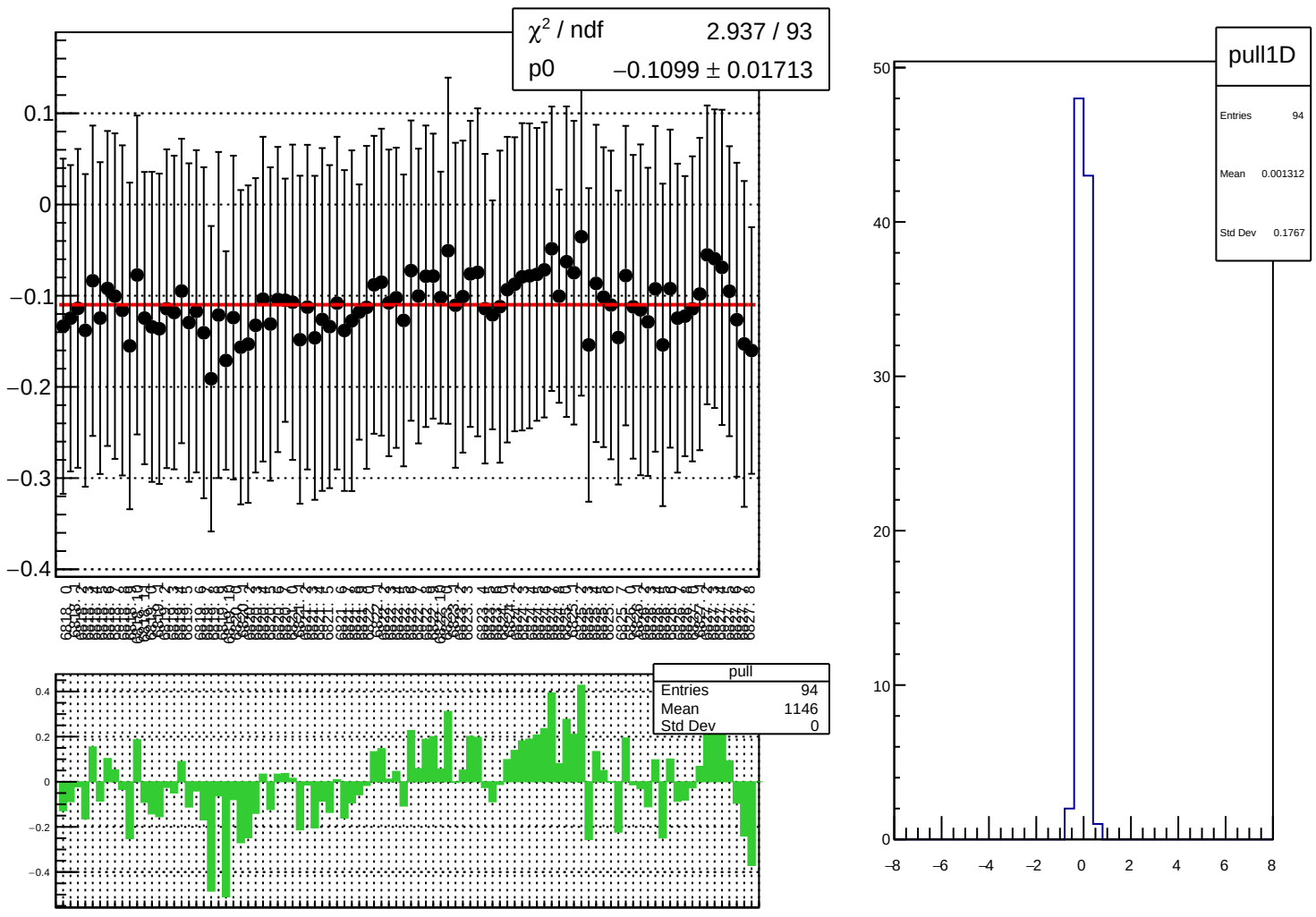

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 24.52 / 93
p0 0.1016 ± 0.01574
pull
Entries 94
Mean –537.4
Std Dev 0
pull1D
Entries 94
Mean 0.011
Std Dev 0.5106

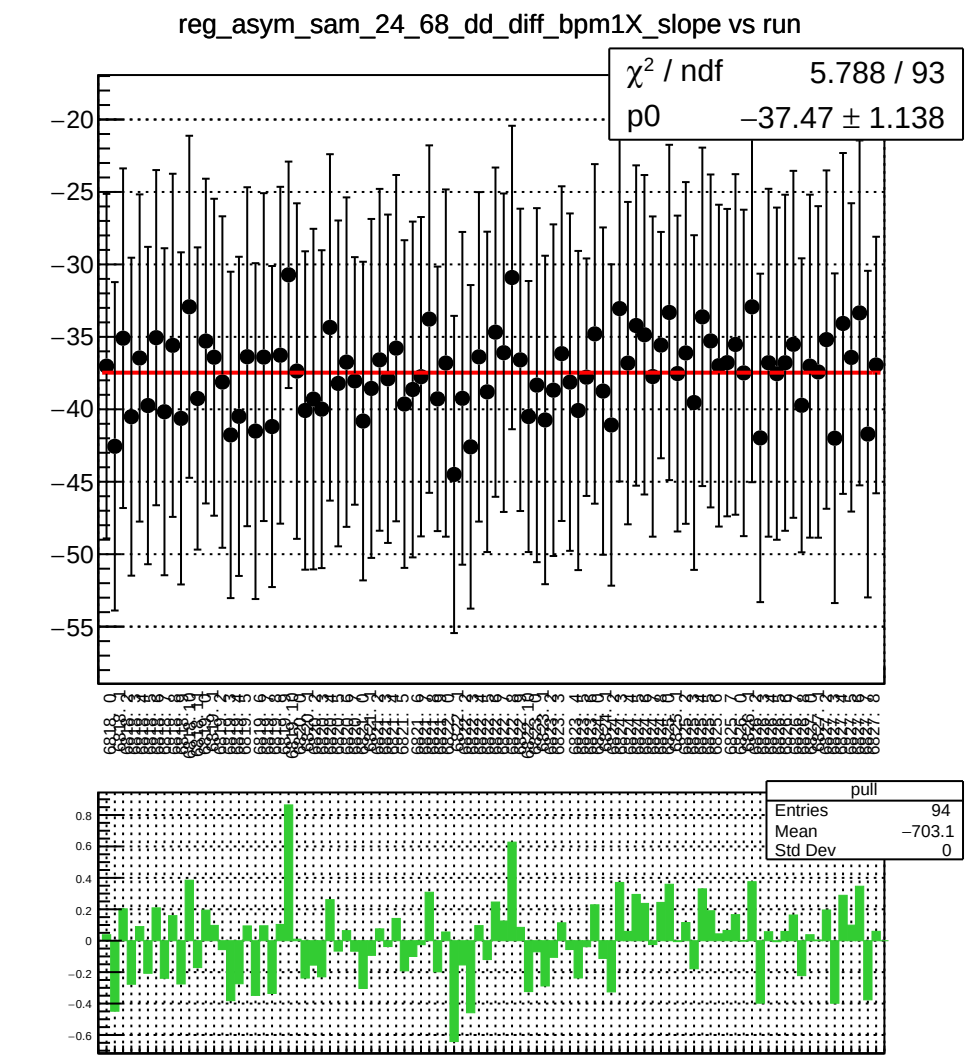

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 5.978 / 93
p0 4.996 ± 0.4522
pull
Entries 94
Mean 588.2
Std Dev 0
pull1D
Entries 94
Mean 0.002272
Std Dev 0.2522

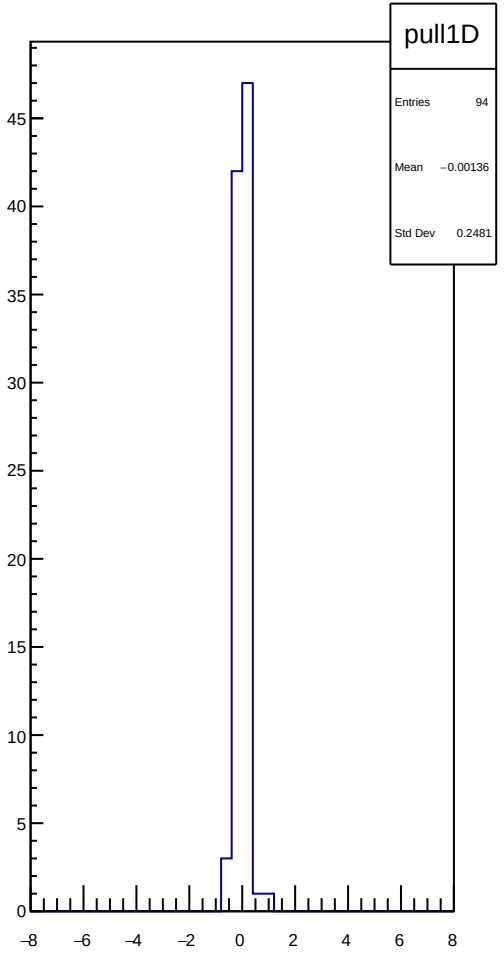

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.868 / 93
p0 −1.023 ± 0.3019
pull
Entries 94
Mean 291.1
Std Dev 0
pull1D
Entries 94
Mean 0.01763
Std Dev 0.2697

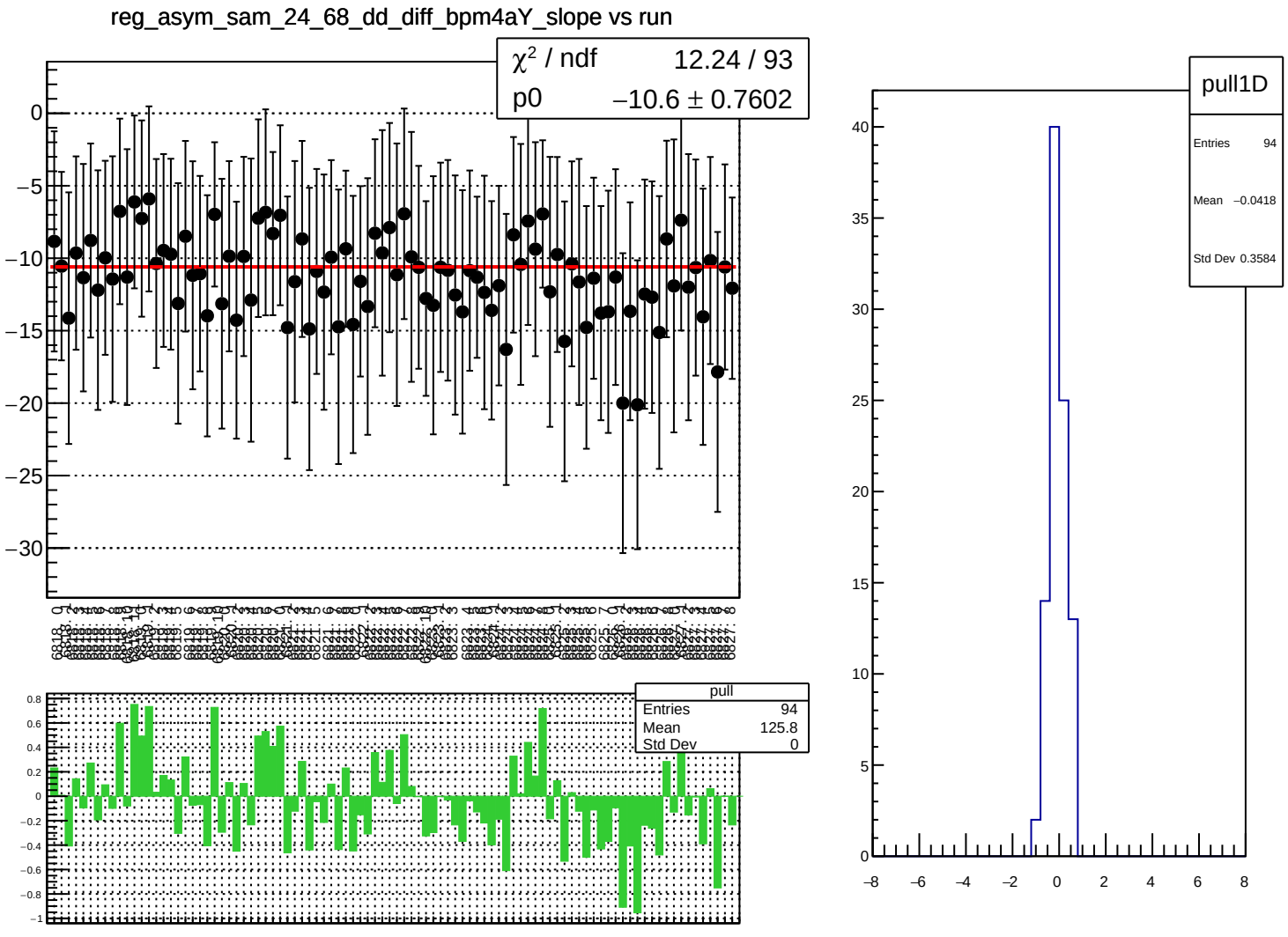

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.708 / 93
p0 34.62 ± 0.4224
pull
Entries 94
Mean −323.1
Std Dev 0
pull1D
Entries 94
Mean 0.002792
Std Dev 0.3044

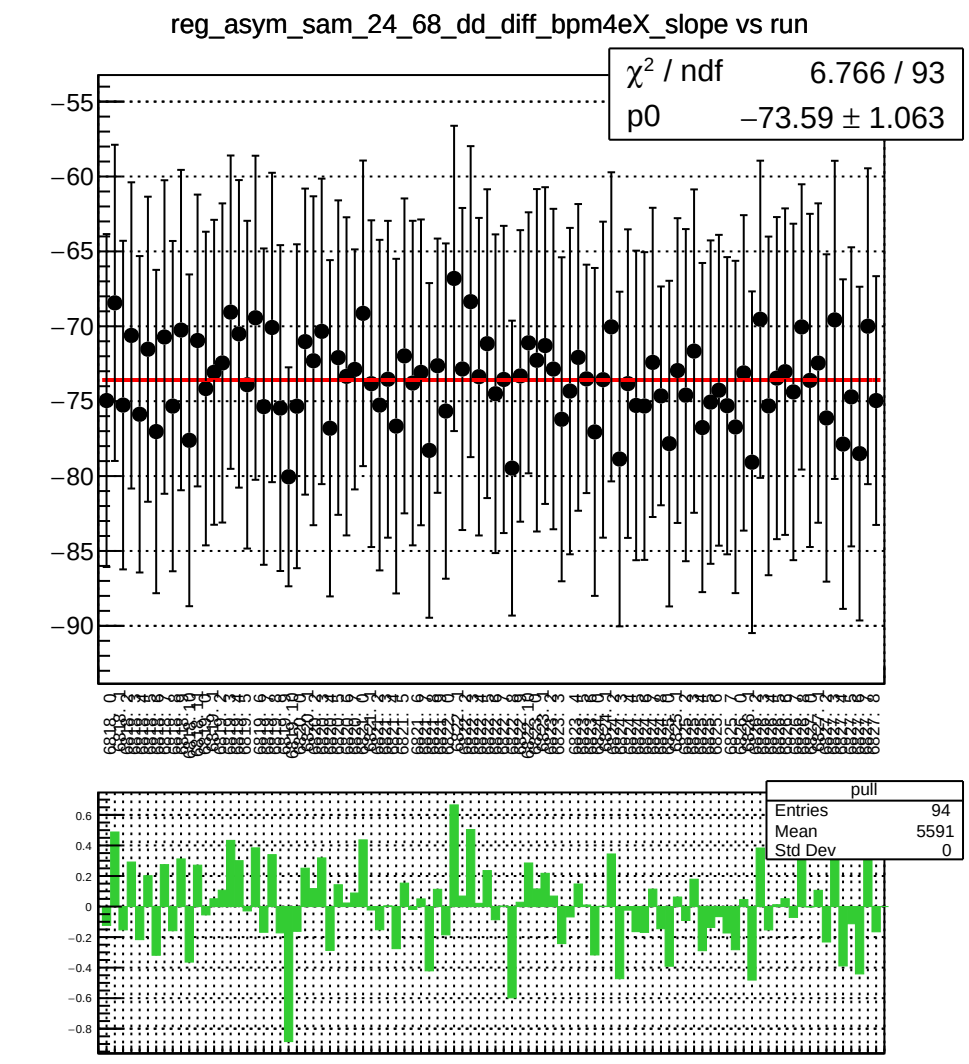

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.98 / 93
p0 23.08 ± 0.3498
pull
Entries 94
Mean 433.3
Std Dev 0
pull1D
Entries 94
Mean −0.009051
Std Dev 0.2723

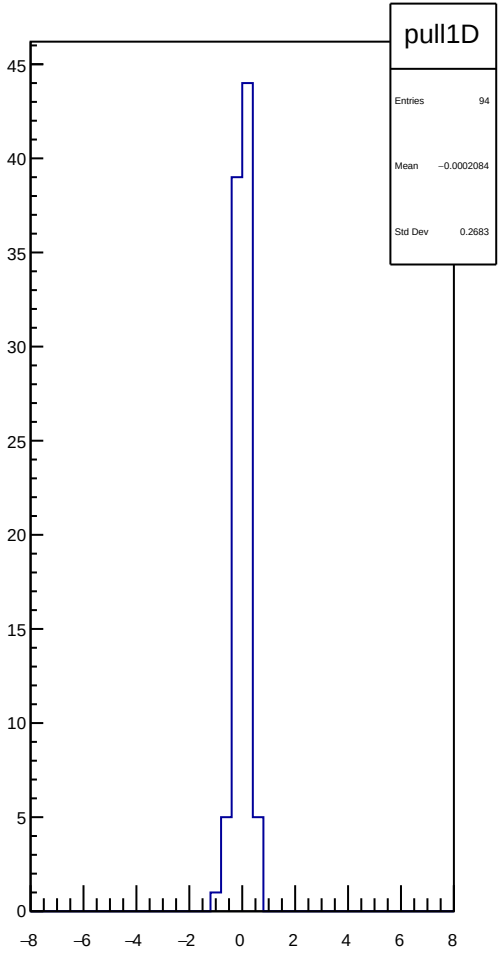

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 2.937 / 93
p0 −0.1099 ± 0.01713
pull
Entries 94
Mean 1146
Std Dev 0
pull1D
Entries 94
Mean 0.001312
Std Dev 0.1767

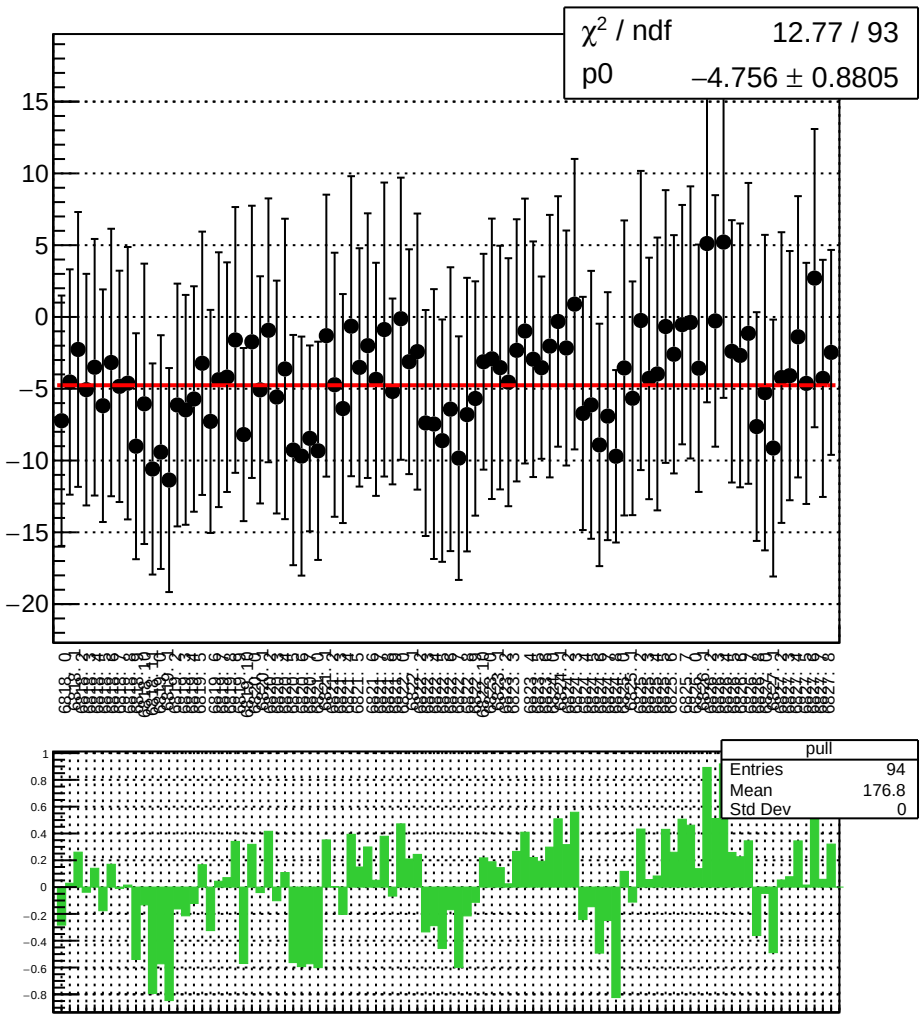

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 5.788 / 93
p0 −37.47 ± 1.138
pull
Entries 94
Mean −703.1
Std Dev 0

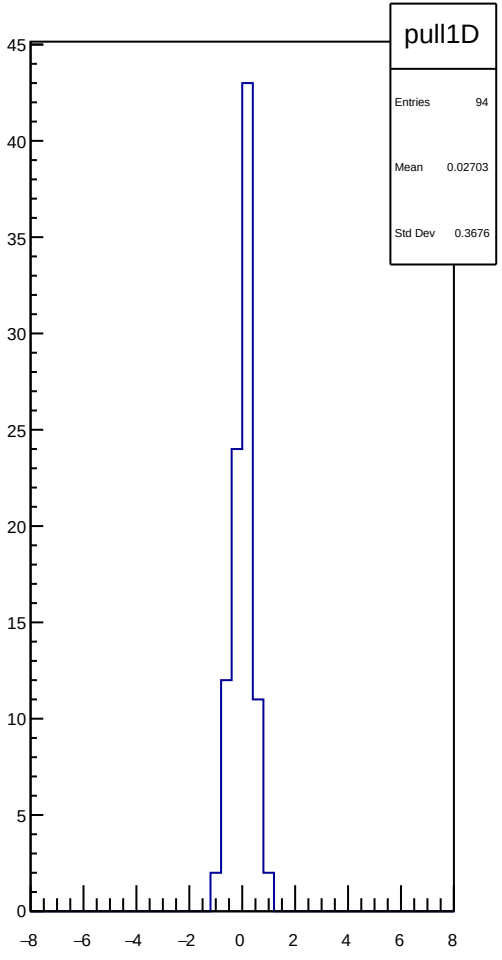

pull1D
Entries 94
Mean −0.00136
Std Dev 0.2481

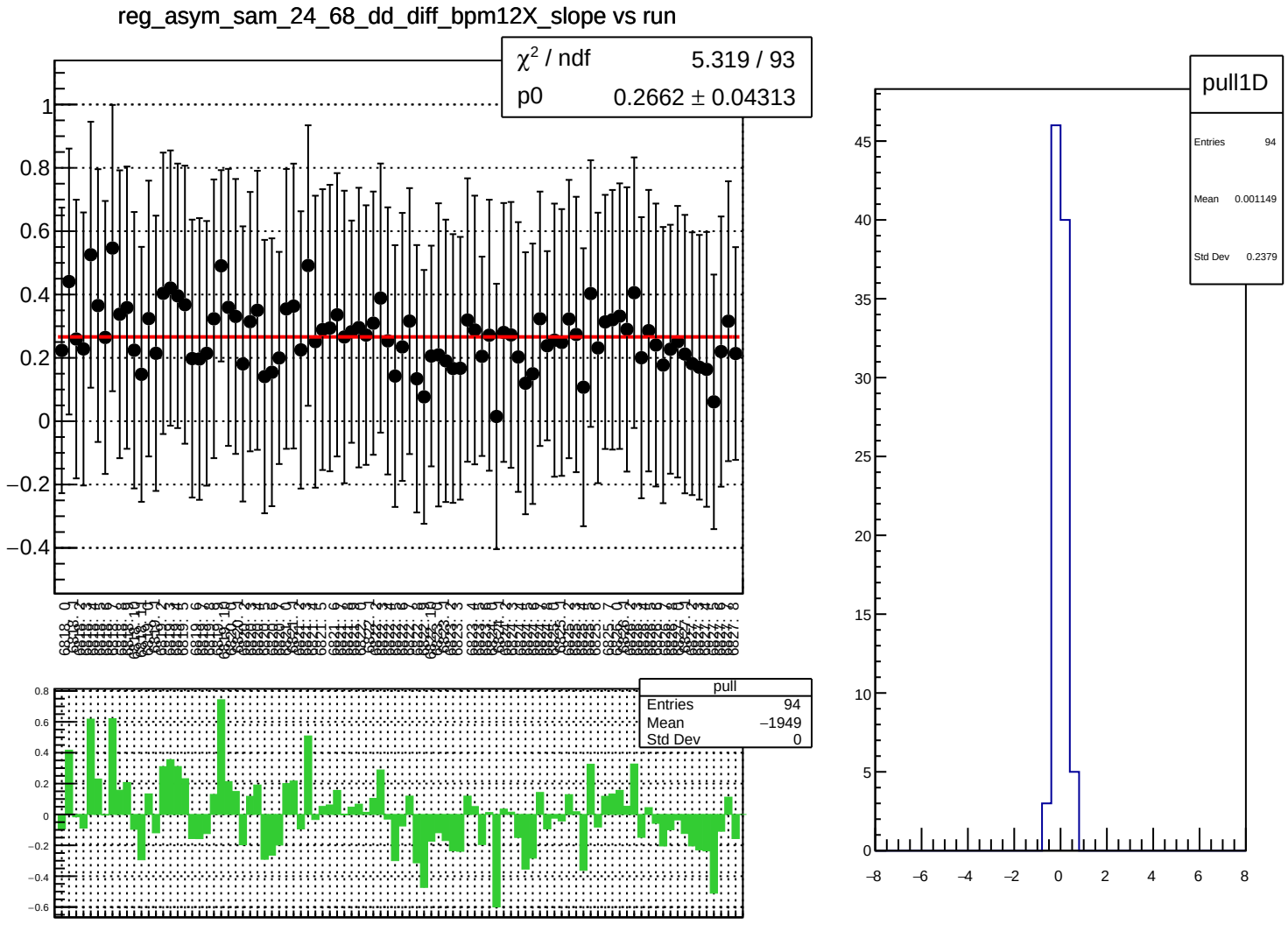

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.24 / 93
p0 −10.6 ± 0.7602
pull
Entries 94
Mean 125.8
Std Dev 0
pull1D
Entries 94
Mean −0.0418
Std Dev 0.3584

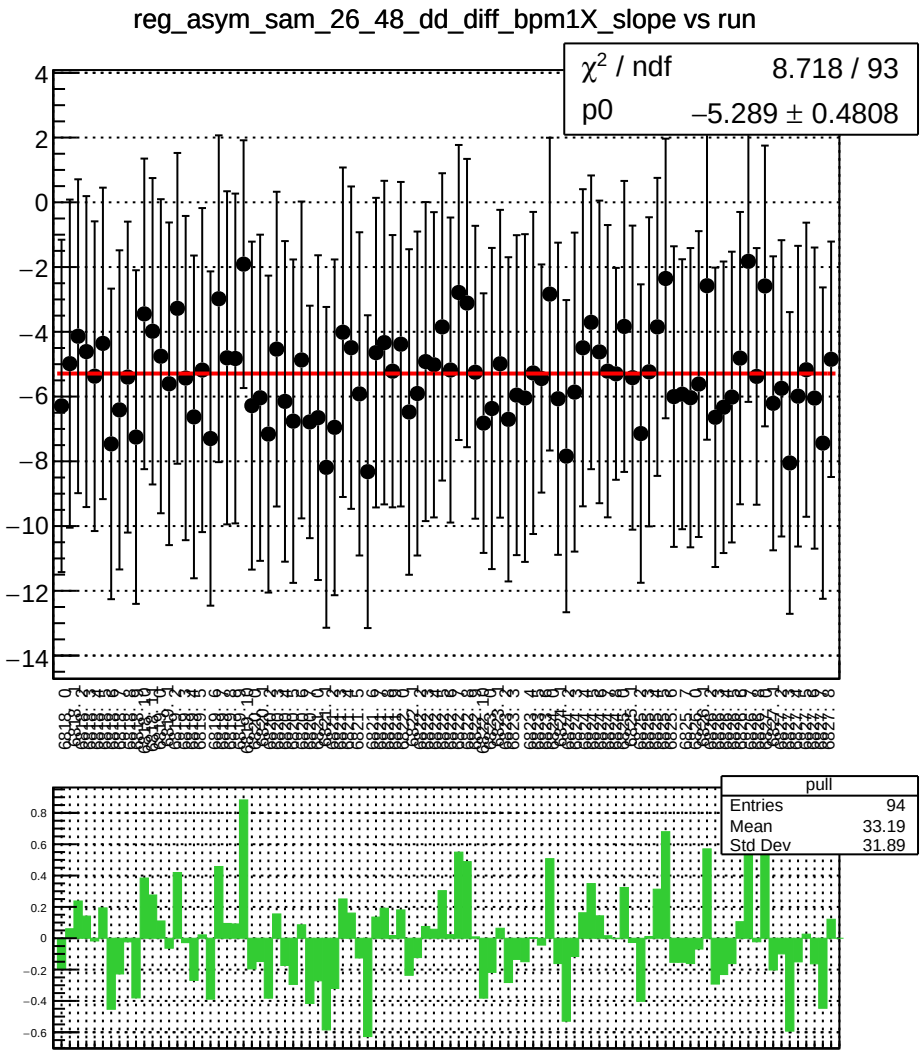

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.766 / 93
p0 −73.59 ± 1.063
pull
Entries 94
Mean 5591
Std Dev 0

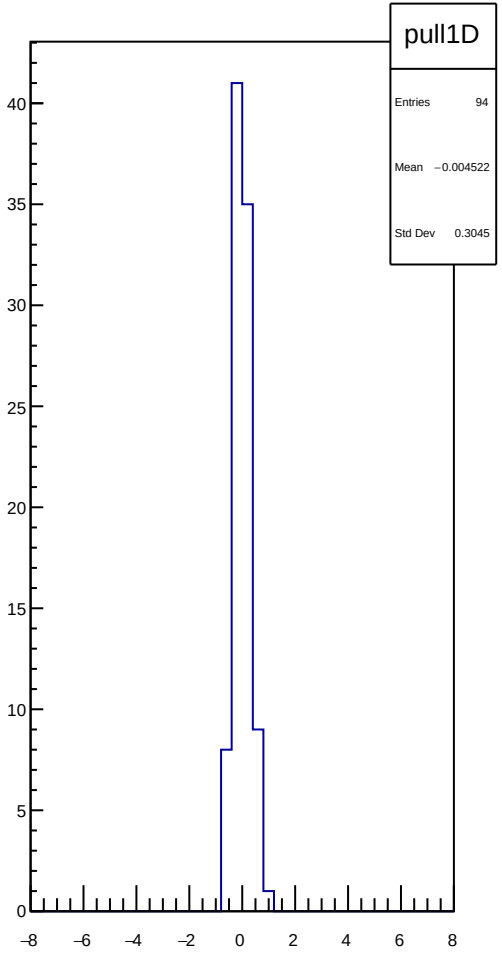

pull1D
Entries 94
Mean −0.0002084
Std Dev 0.2683

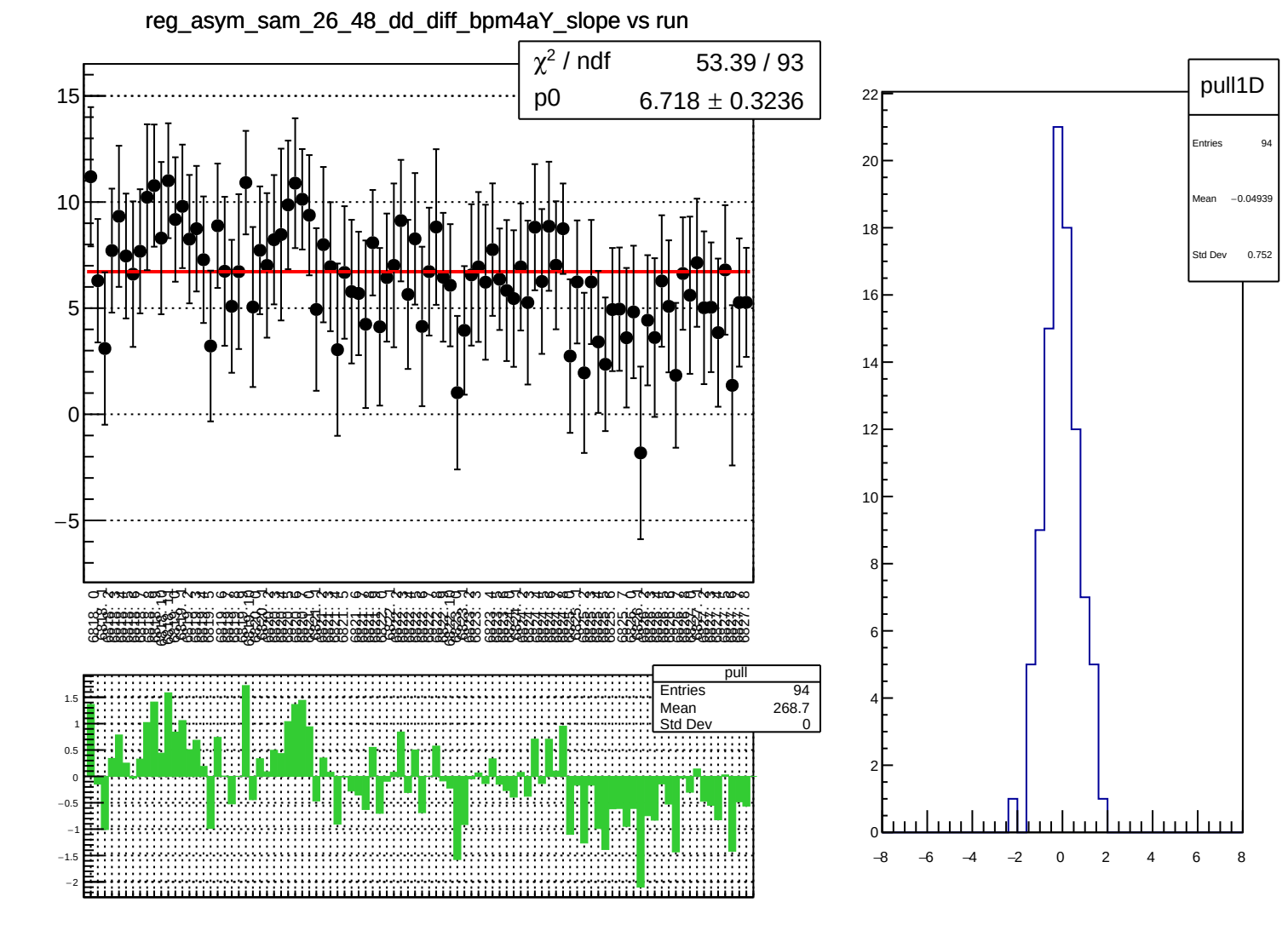

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.77 / 93
p0 −4.756 ± 0.8805
pull
Entries 94
Mean 176.8
Std Dev 0

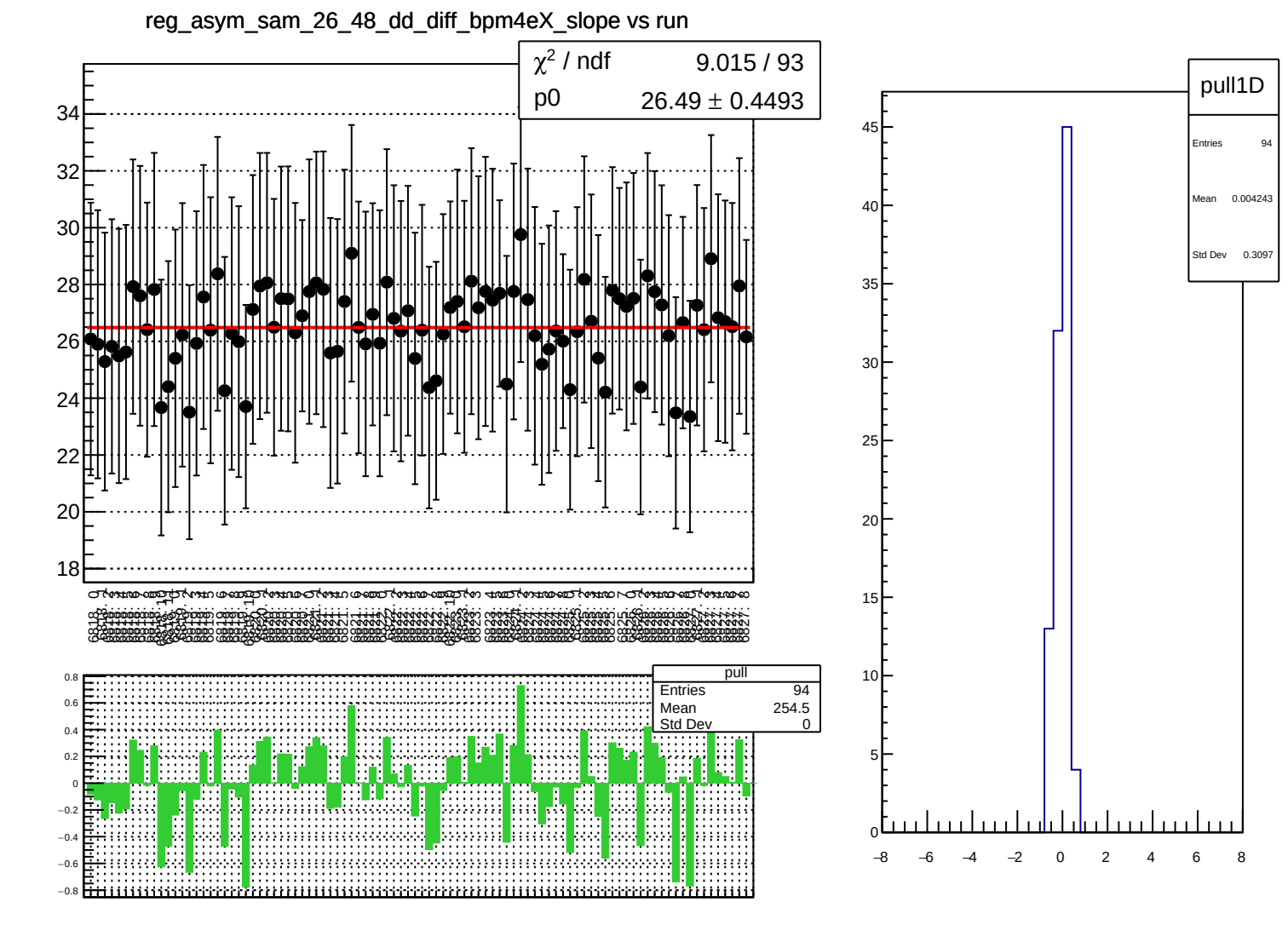

pull1D
Entries 94
Mean 0.02703
Std Dev 0.3676

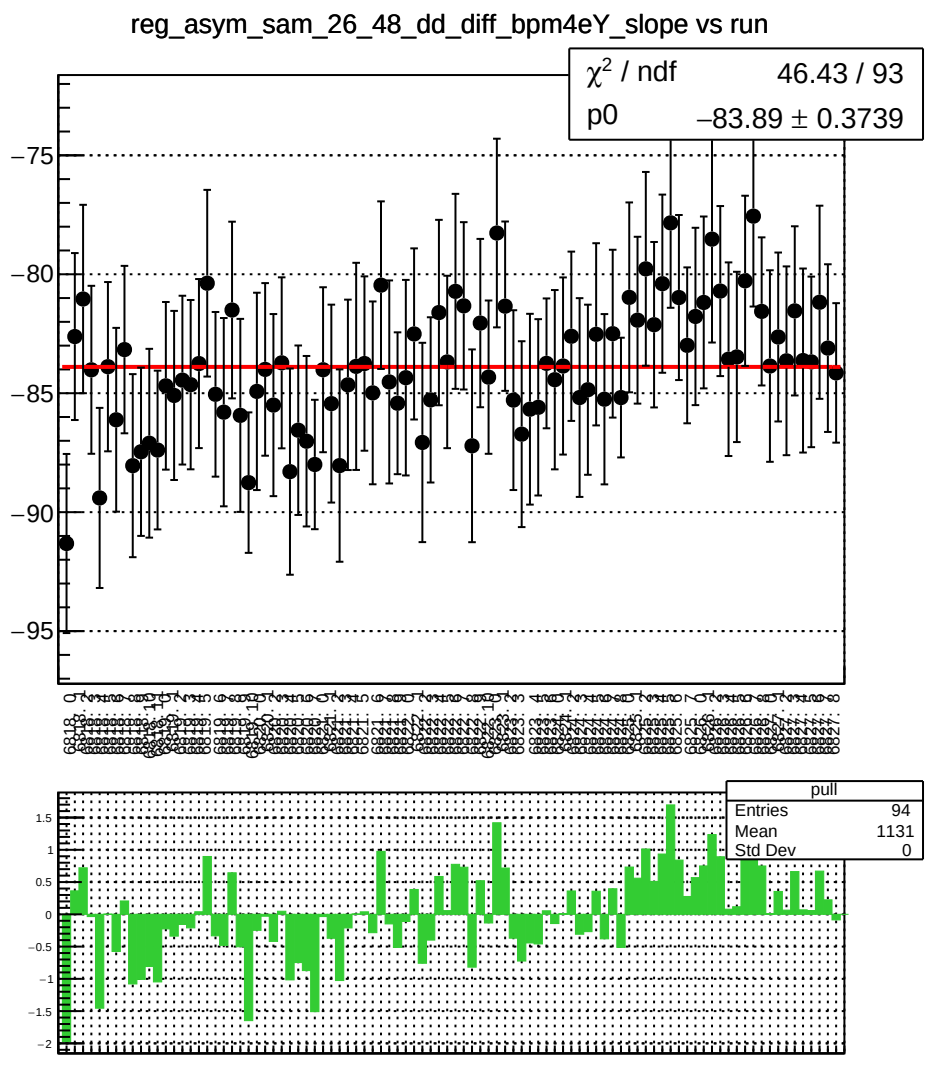

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.319 / 93
p0 0.2662 ± 0.04313
pull
Entries 94
Mean −1949
Std Dev 0
pull1D
Entries 94
Mean 0.001149
Std Dev 0.2379

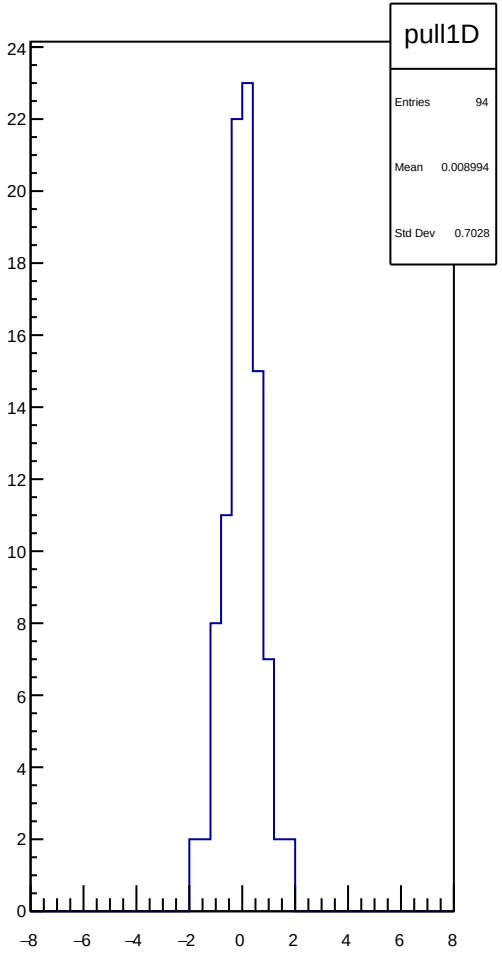

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 8.718 / 93
p0 −5.289 ± 0.4808
pull
Entries 94
Mean 33.19
Std Dev 31.89

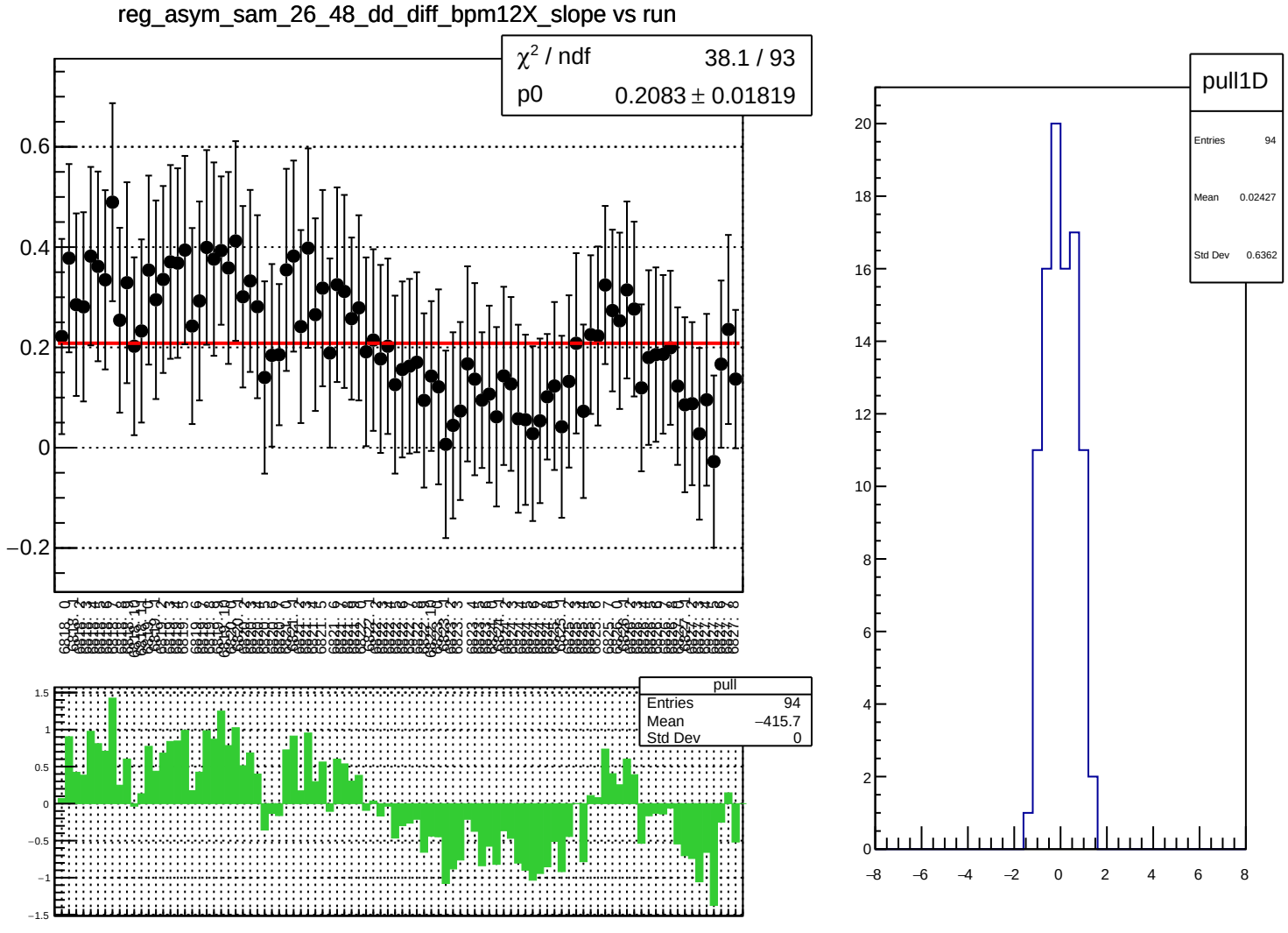

pull1D
Entries 94
Mean −0.004522
Std Dev 0.3045

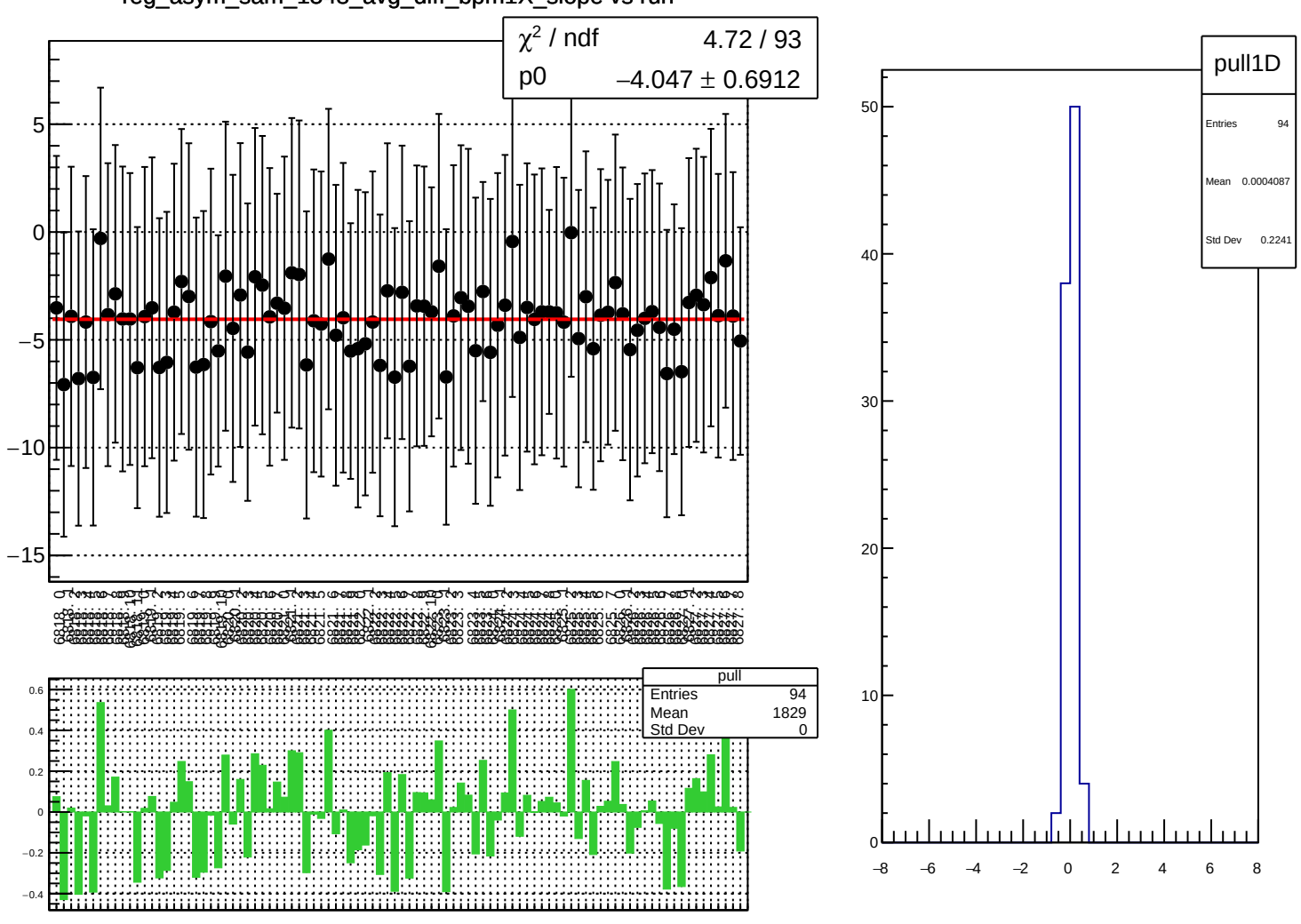

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 53.39 / 93
p0 6.718 ± 0.3236
pull
Entries 94
Mean 268.7
Std Dev 0
pull1D
Entries 94
Mean −0.04939
Std Dev 0.752

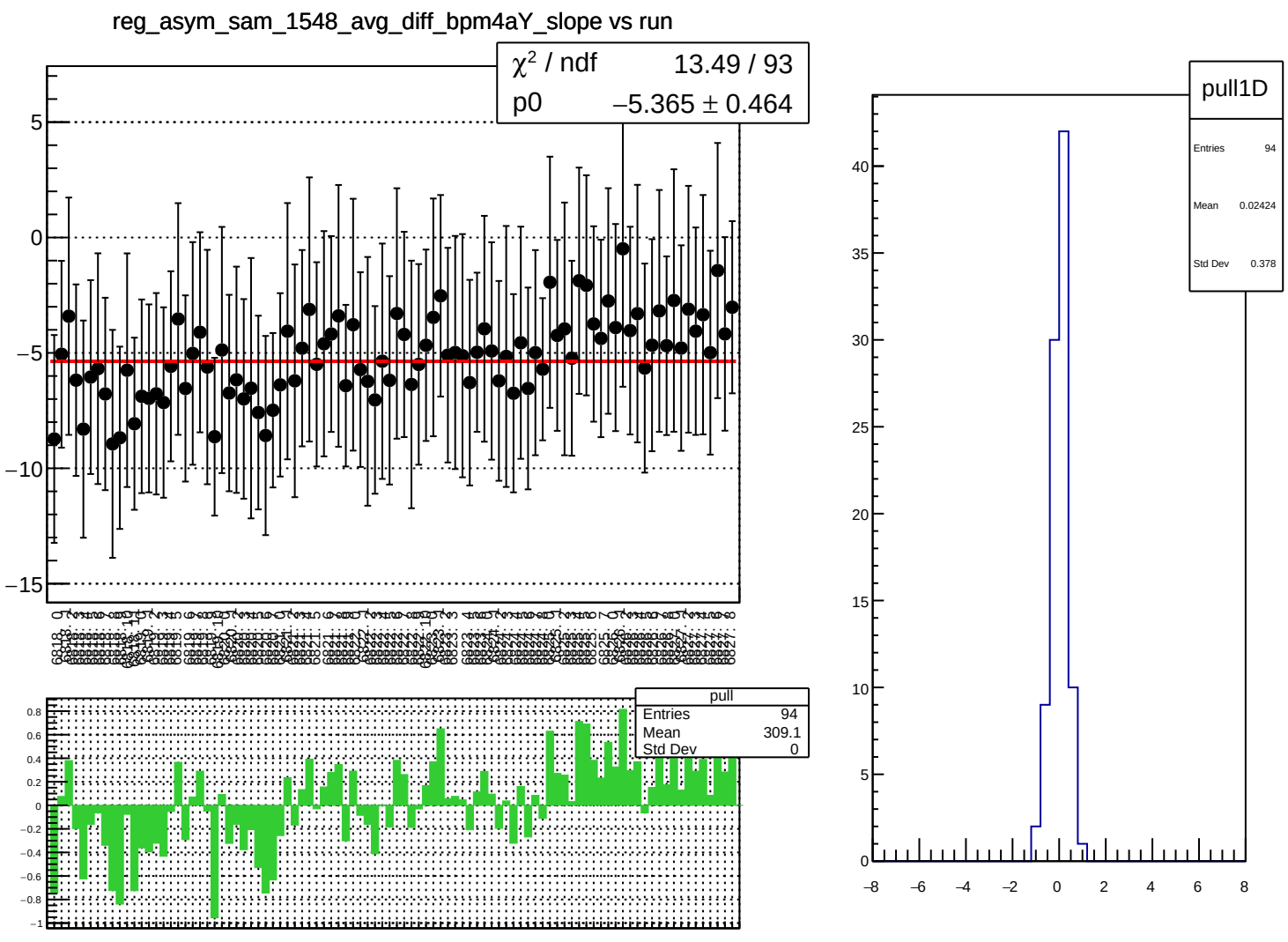

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.015 / 93
p0 26.49 ± 0.4493
pull
Entries 94
Mean 254.5
Std Dev 0
pull1D
Entries 94
Mean 0.004243
Std Dev 0.3097

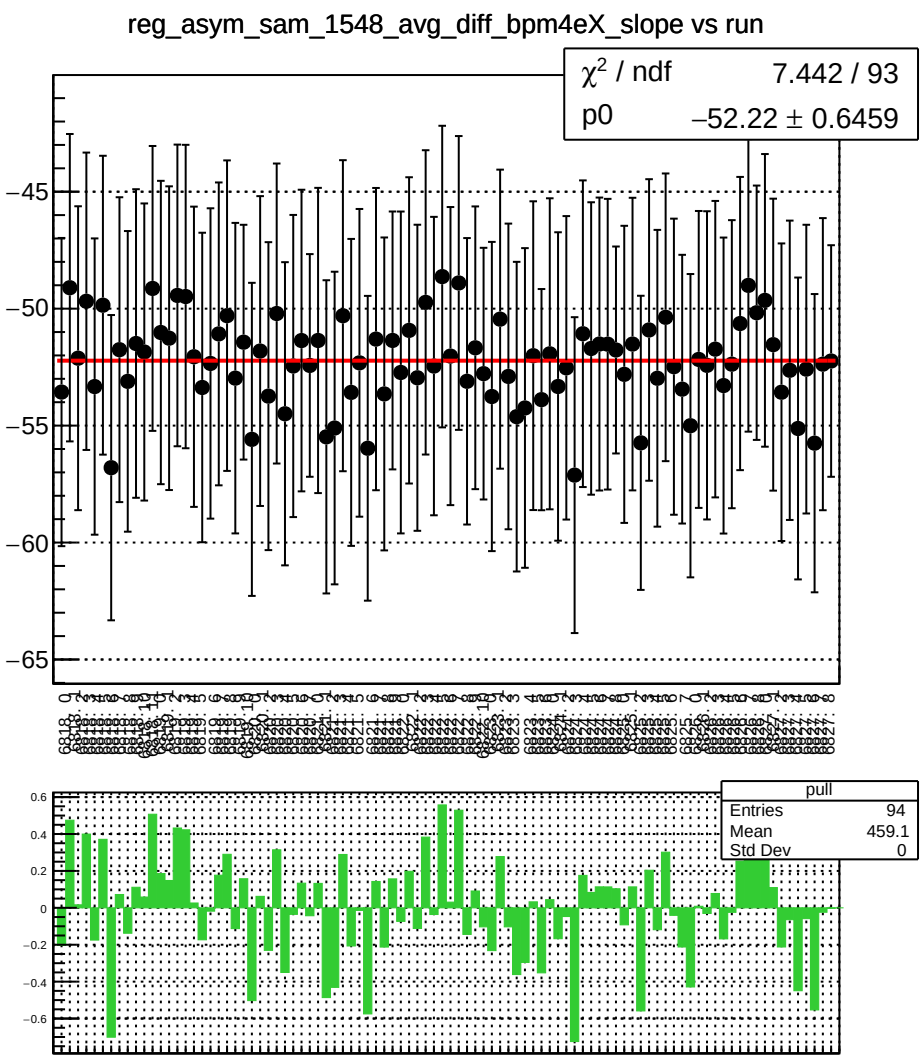

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.43 / 93
p0 −83.89 ± 0.3739
−75
−80
−85
−90
−95
pull
Entries 94
Mean 1131
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

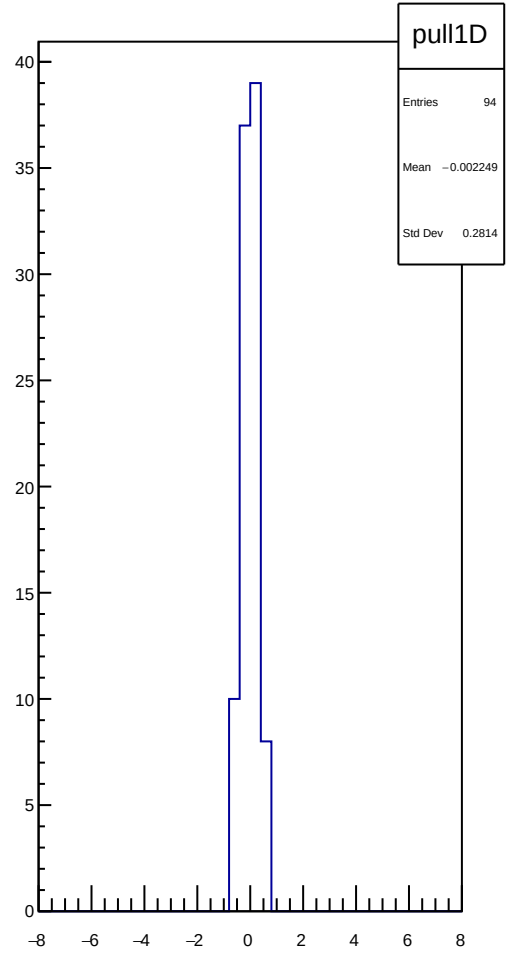

pull1D
Entries 94
Mean 0.008994
Std Dev 0.7028
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

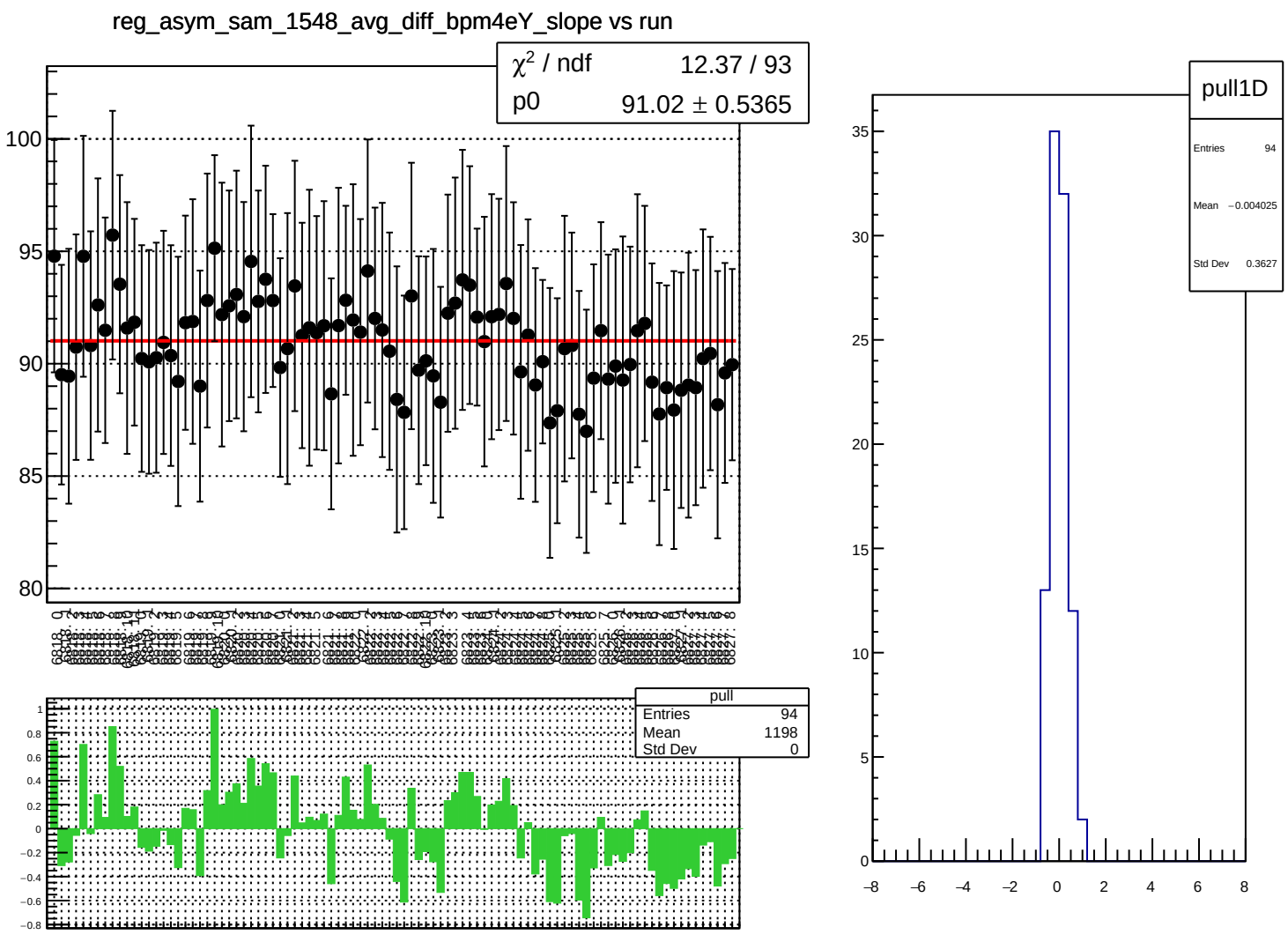

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 38.1 / 93
p0 0.2083 ± 0.01819
0.6
0.4
0.2
0
−0.2
pull
Entries 94
Mean −415.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.02427
Std Dev 0.6362
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

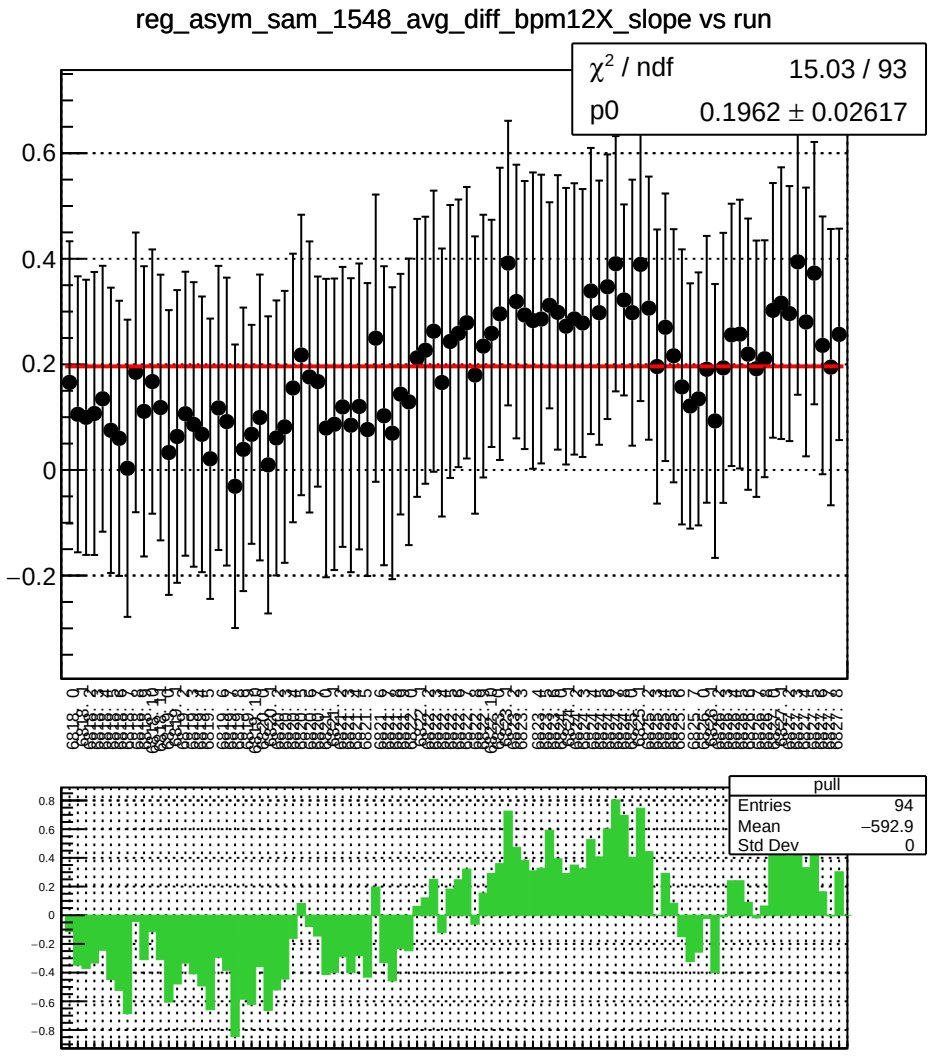

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 4.72 / 93
p0 −4.047 ± 0.6912
pull
Entries 94
Mean 1829
Std Dev 0
pull1D
Entries 94
Mean 0.0004087
Std Dev 0.2241

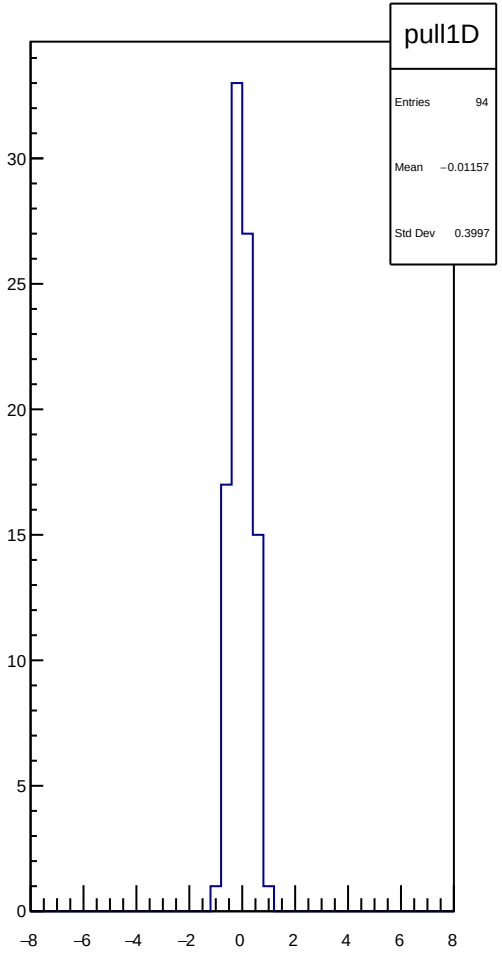

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.49 / 93
p0 −5.365 ± 0.464
pull
Entries 94
Mean 309.1
Std Dev 0
pull1D
Entries 94
Mean 0.02424
Std Dev 0.378

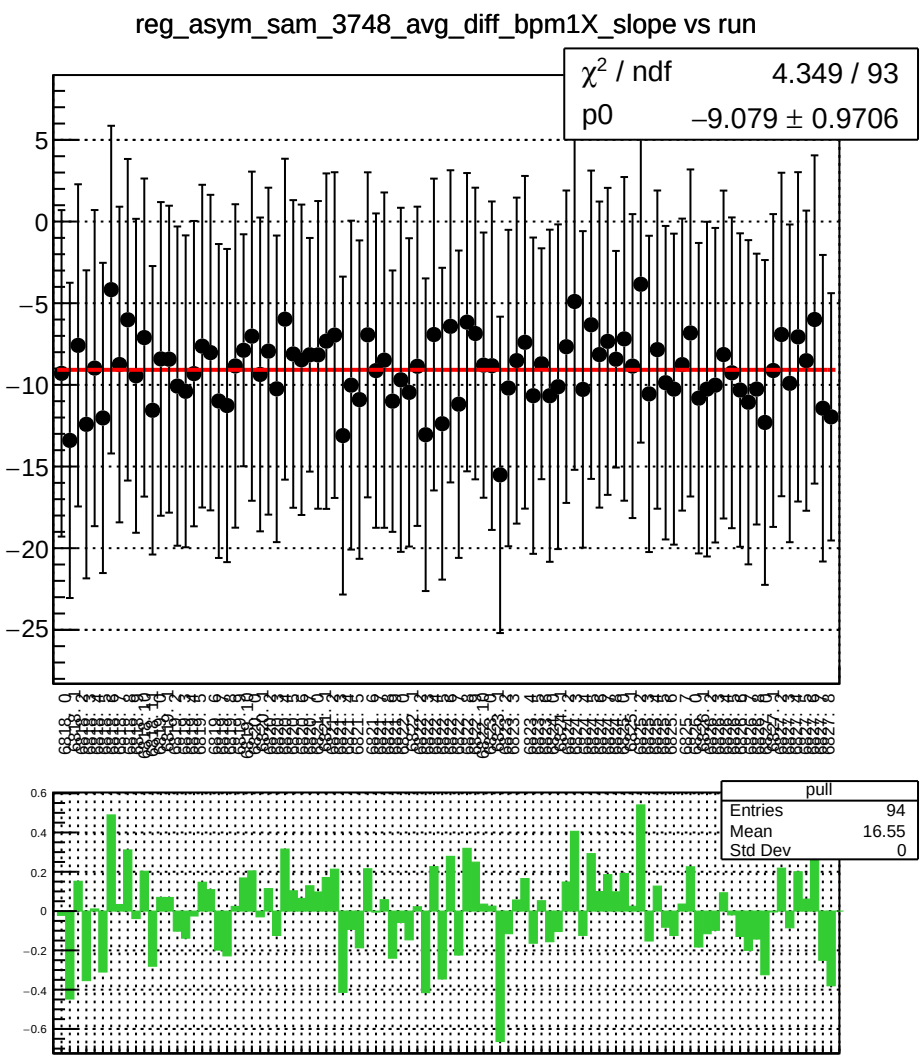

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 7.442 / 93
p0 −52.22 ± 0.6459
pull
Entries 94
Mean 459.1
Std Dev 0

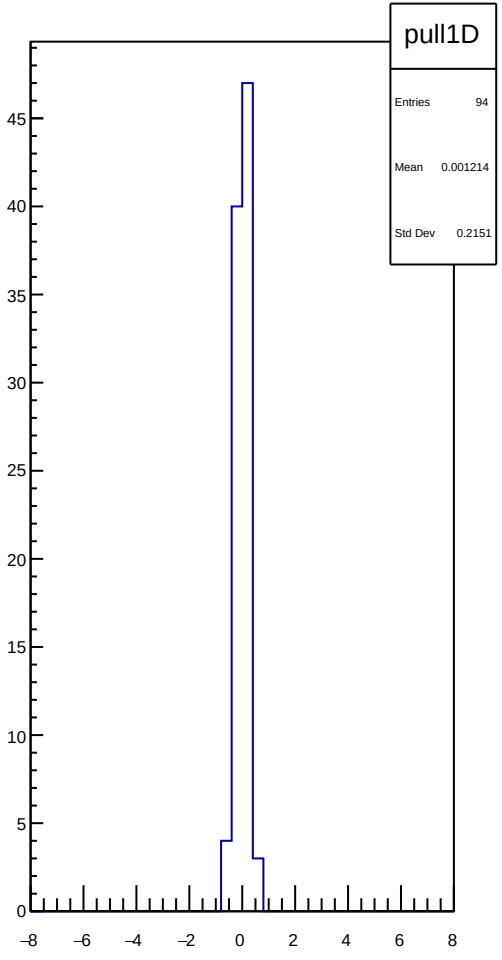

pull1D
Entries 94
Mean −0.002249
Std Dev 0.2814

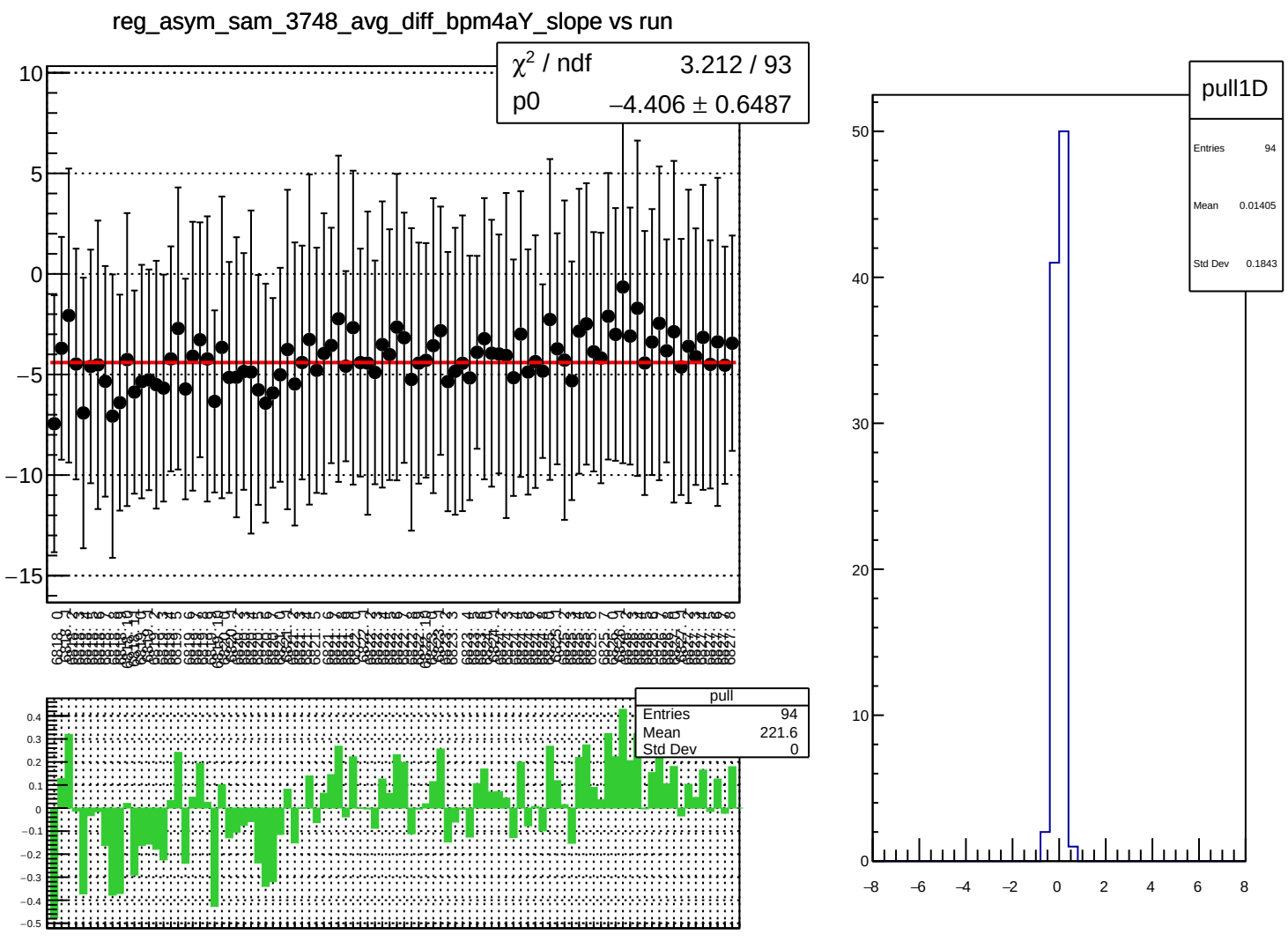

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.37 / 93
p0 91.02 ± 0.5365
100
95
90
85
80
pull
Entries 94
Mean 1198
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.004025
Std Dev 0.3627
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

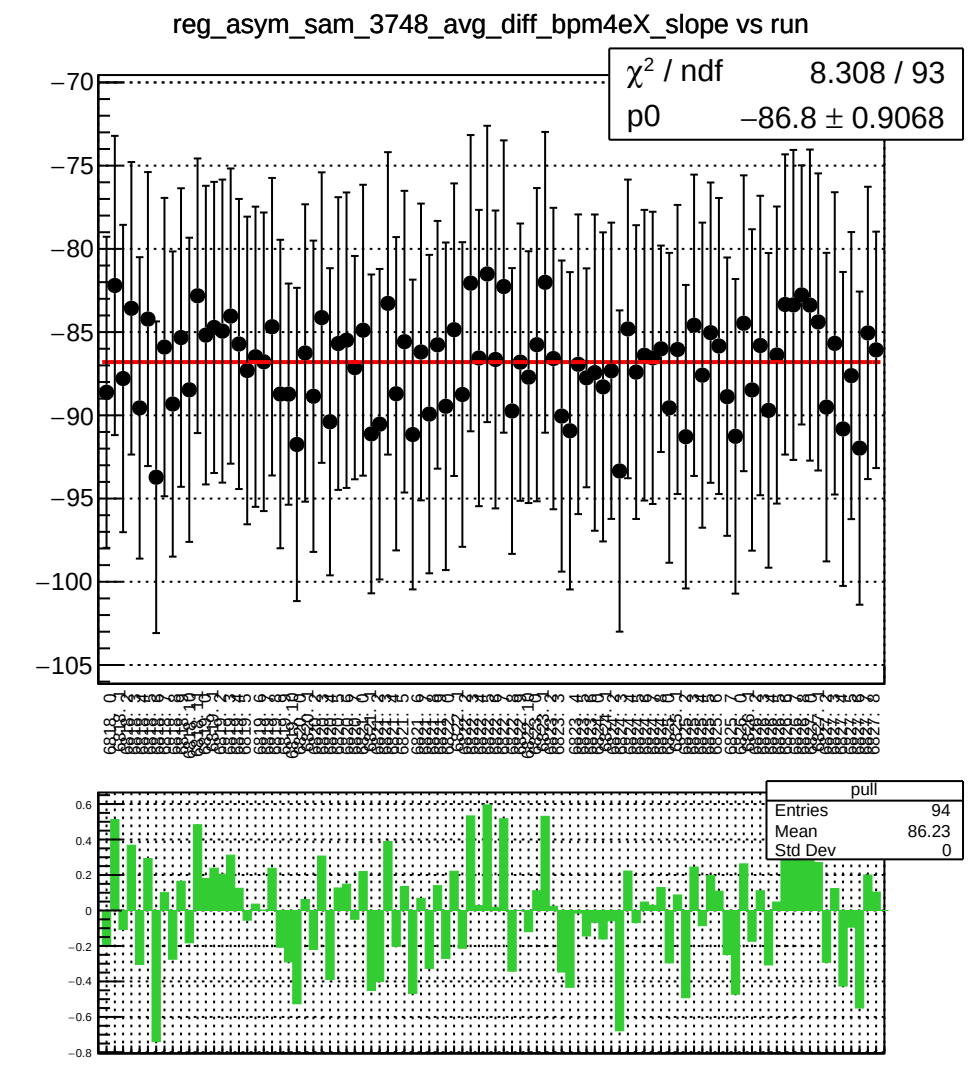

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 15.03 / 93
p0 0.1962 ± 0.02617
pull
Entries 94
Mean −592.9
Std Dev 0

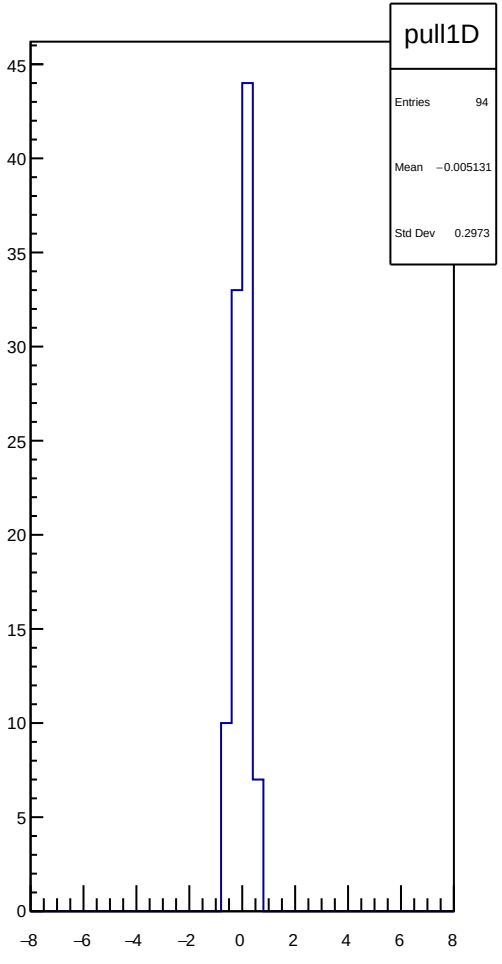

pull1D
Entries 94
Mean −0.01157
Std Dev 0.3997

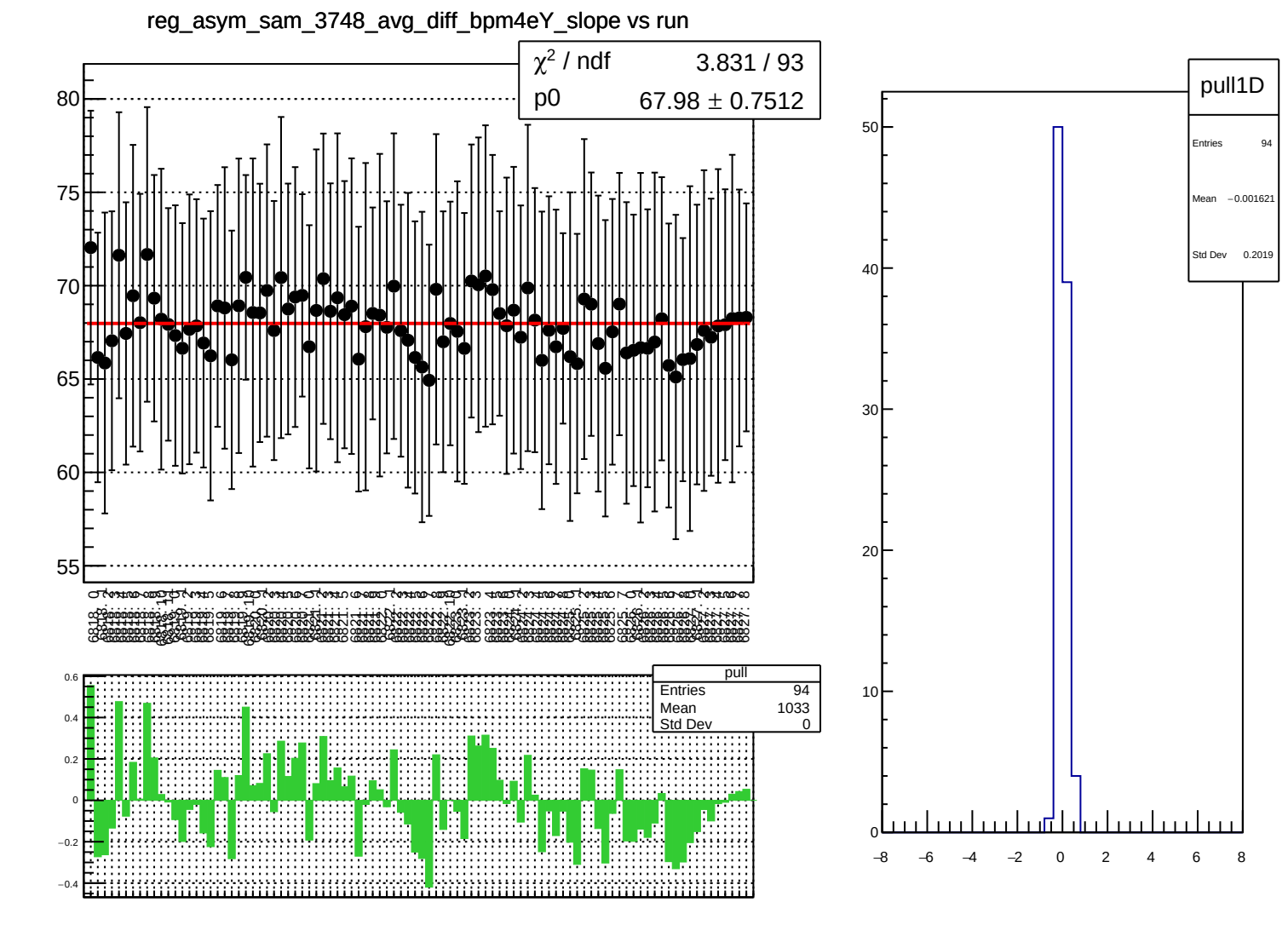

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 4.349 / 93
p0 −9.079 ± 0.9706
pull
Entries 94
Mean 16.55
Std Dev 0

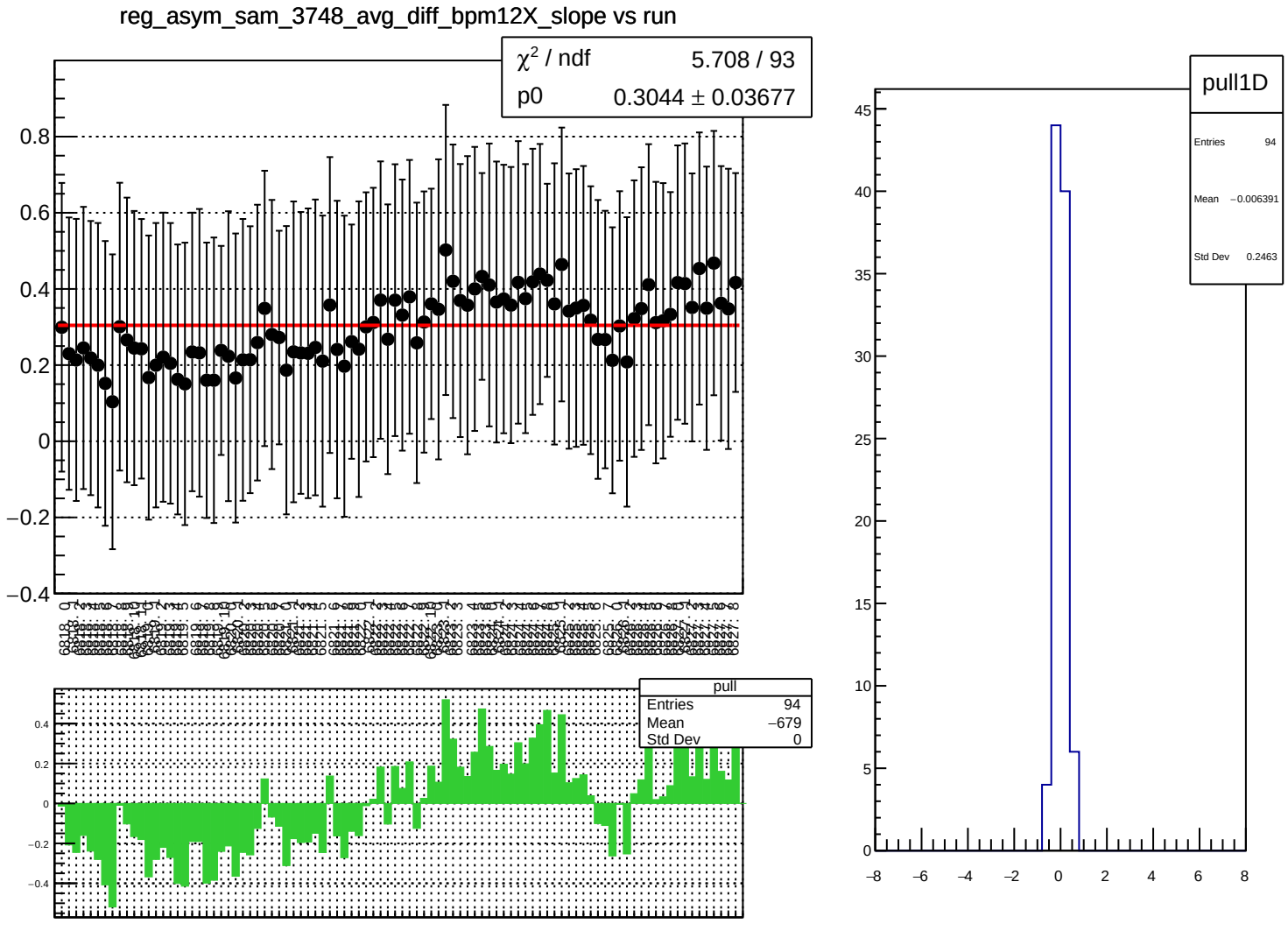

pull1D
Entries 94
Mean 0.001214
Std Dev 0.2151

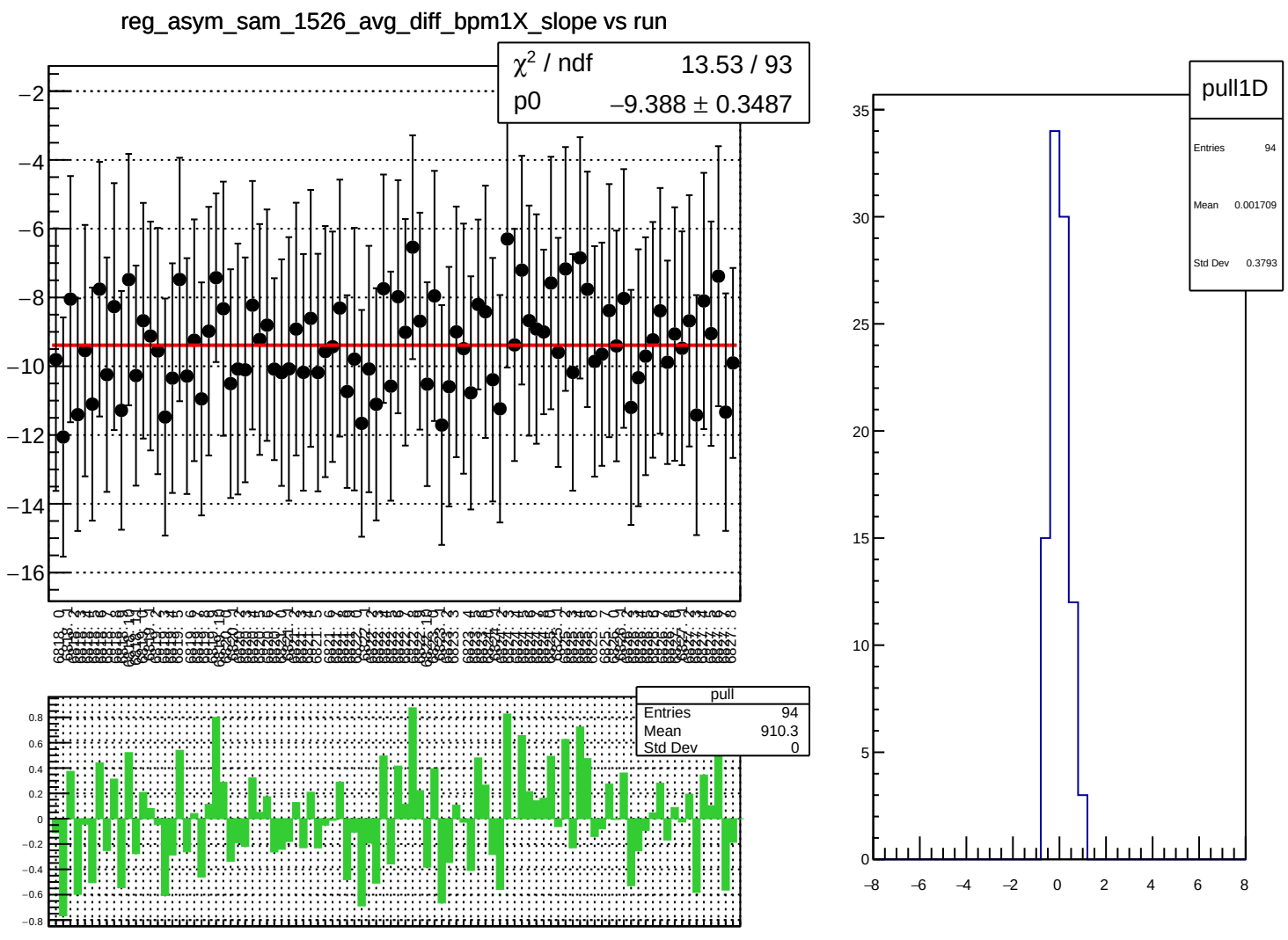

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.212 / 93
p0 −4.406 ± 0.6487
pull
Entries 94
Mean 221.6
Std Dev 0
pull1D
Entries 94
Mean 0.01405
Std Dev 0.1843

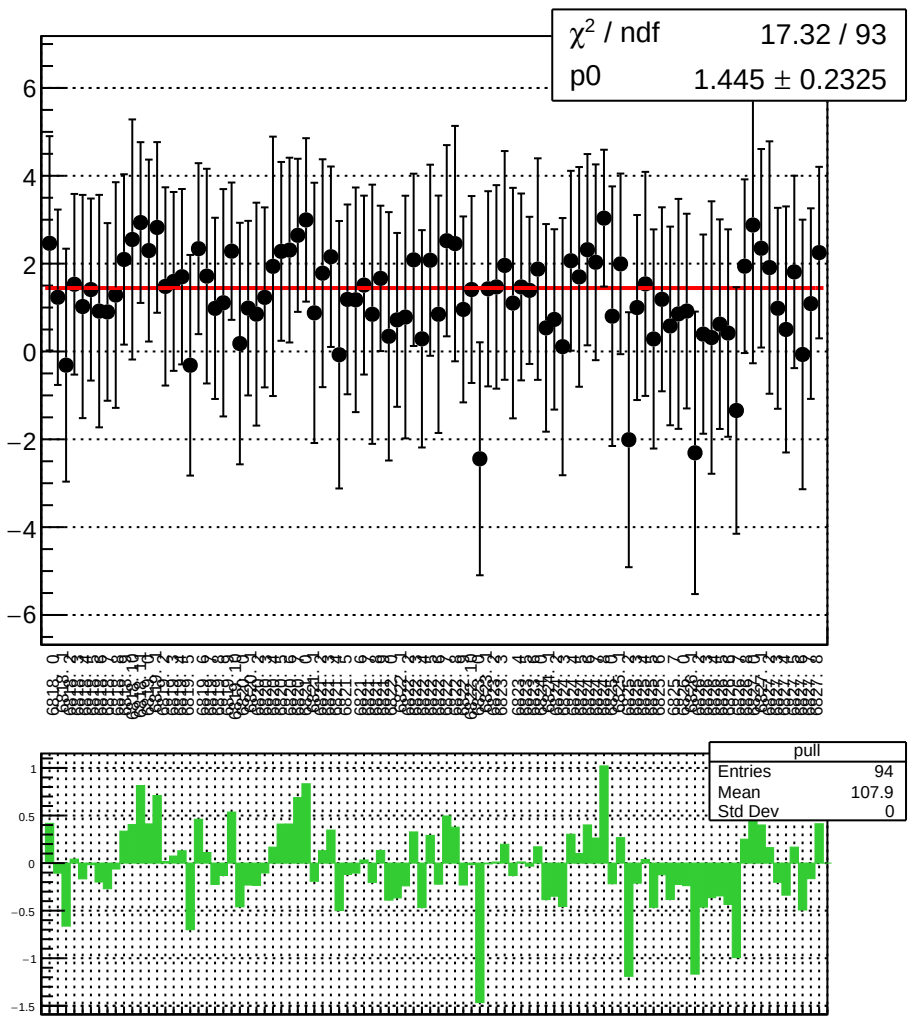

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 8.308 / 93
p0 −86.8 ± 0.9068
pull
Entries 94
Mean 86.23
Std Dev 0

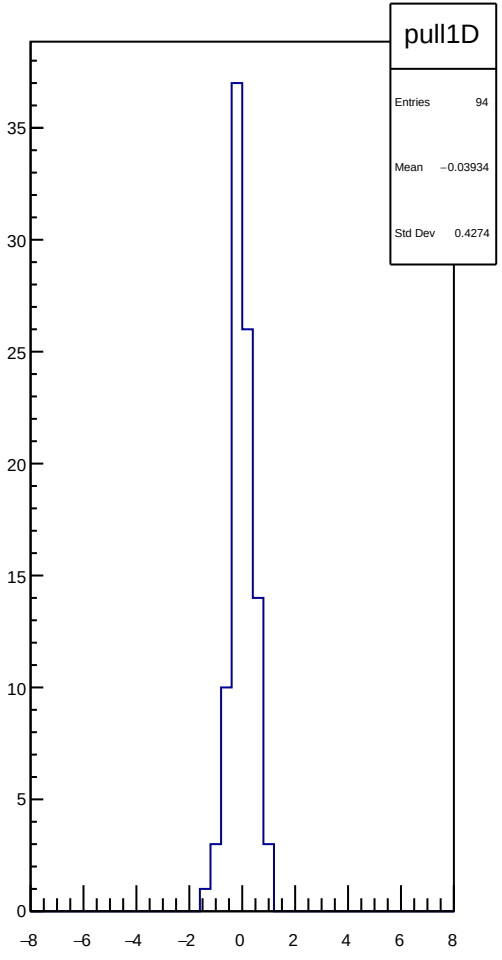

pull1D
Entries 94
Mean −0.005131
Std Dev 0.2973

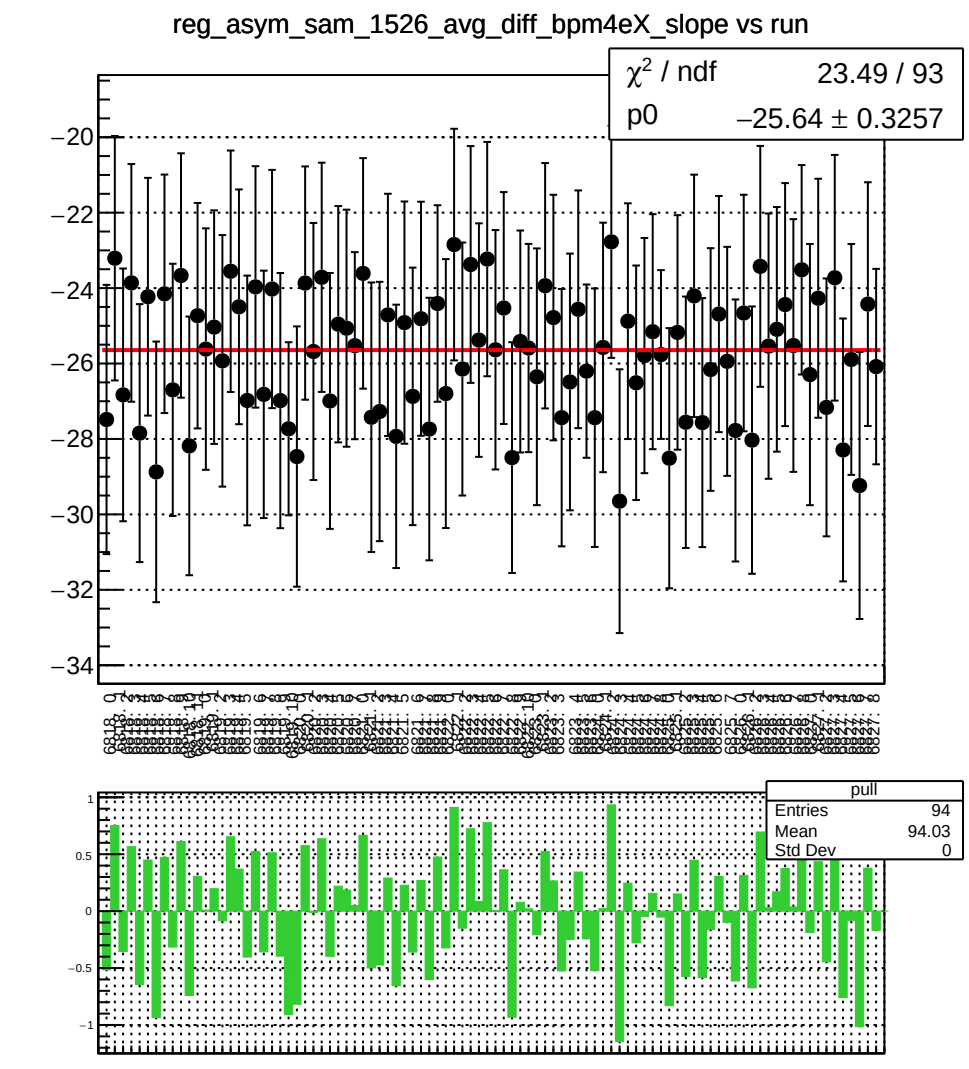

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.831 / 93
p0 67.98 ± 0.7512
80
75
70
65
60
55
pull
Entries 94
Mean 1033
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 94
Mean −0.001621
Std Dev 0.2019
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

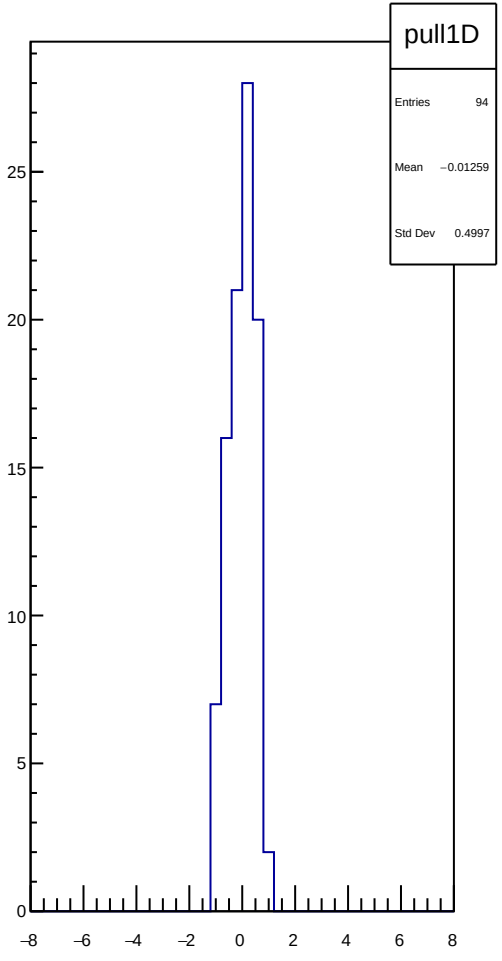

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 5.708 / 93
p0 0.3044 ± 0.03677
pull
Entries 94
Mean −679
Std Dev 0
pull1D
Entries 94
Mean −0.006391
Std Dev 0.2463

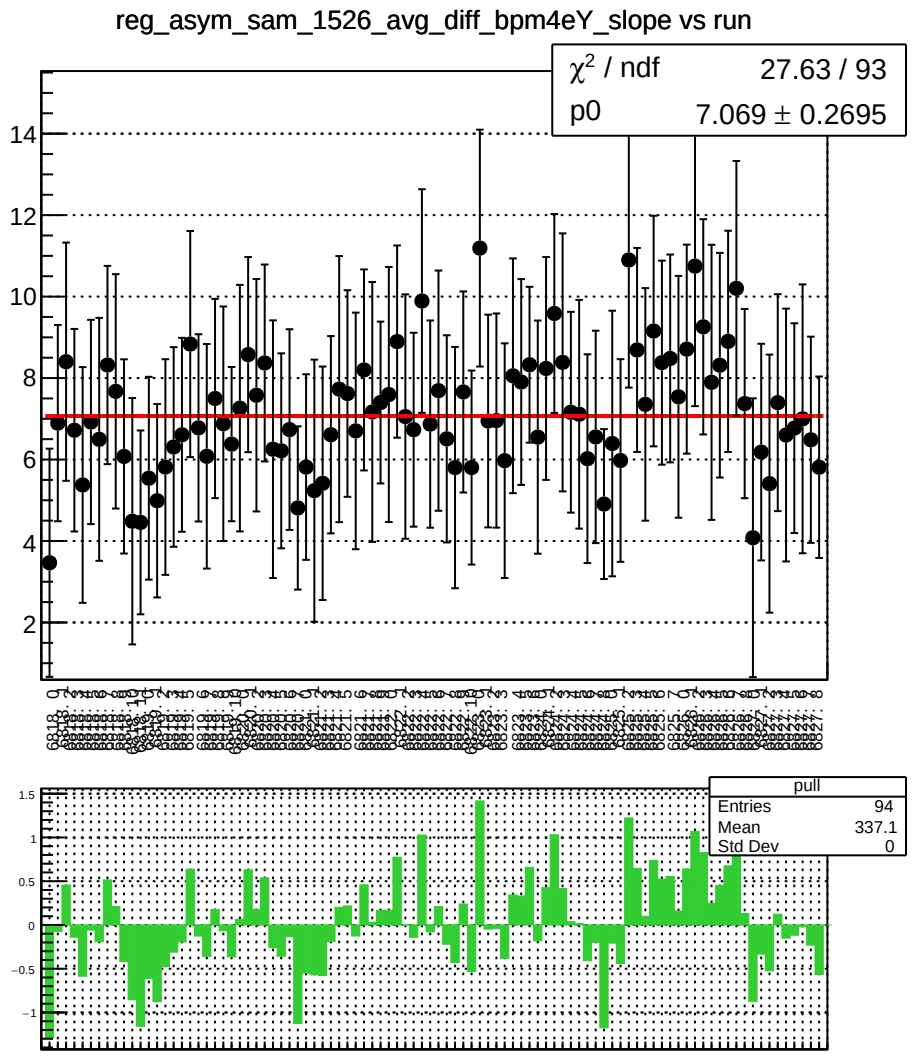

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 13.53 / 93
p0 −9.388 ± 0.3487
pull
Entries 94
Mean 910.3
Std Dev 0
pull1D
Entries 94
Mean 0.001709
Std Dev 0.3793

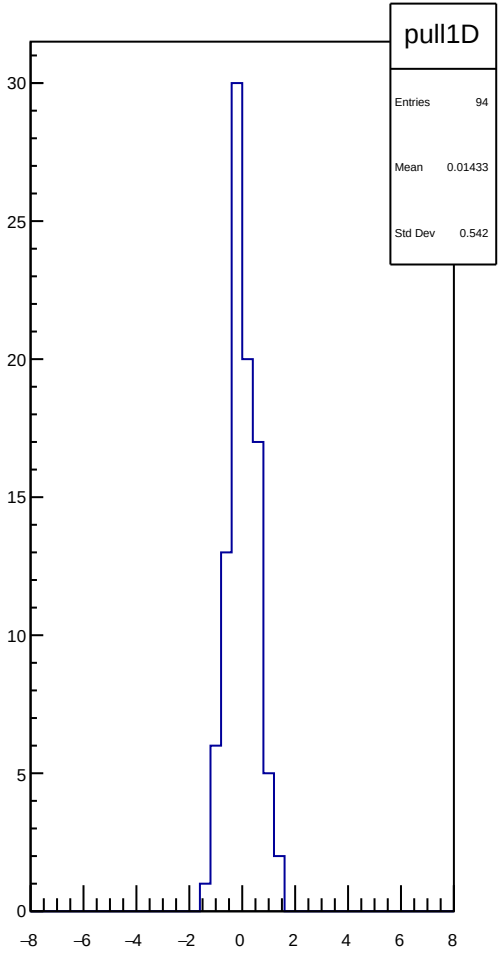

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.32 / 93
p0 1.445 ± 0.2325
pull
Entries 94
Mean 107.9
Std Dev 0

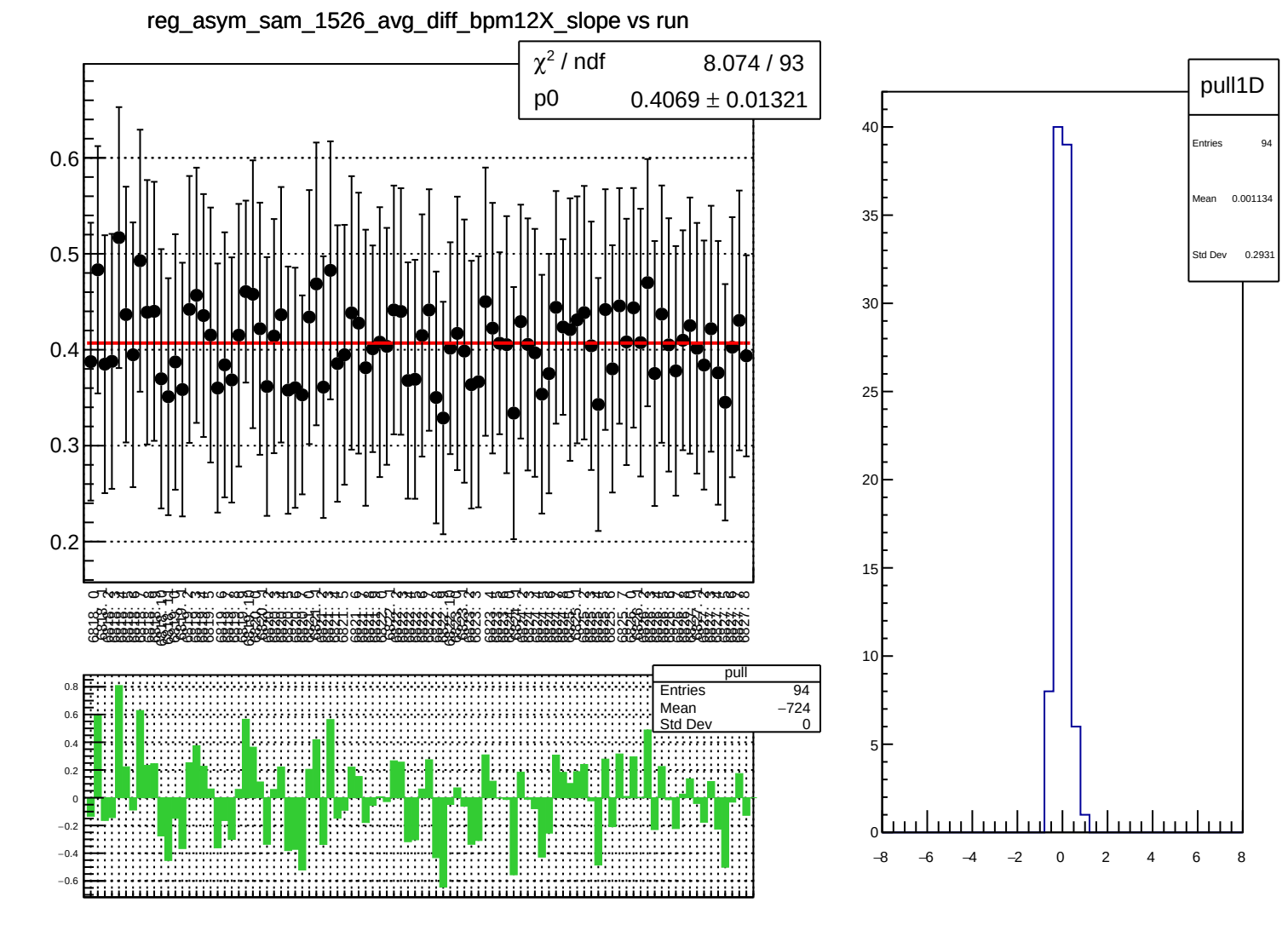

pull1D
Entries 94
Mean −0.03934
Std Dev 0.4274

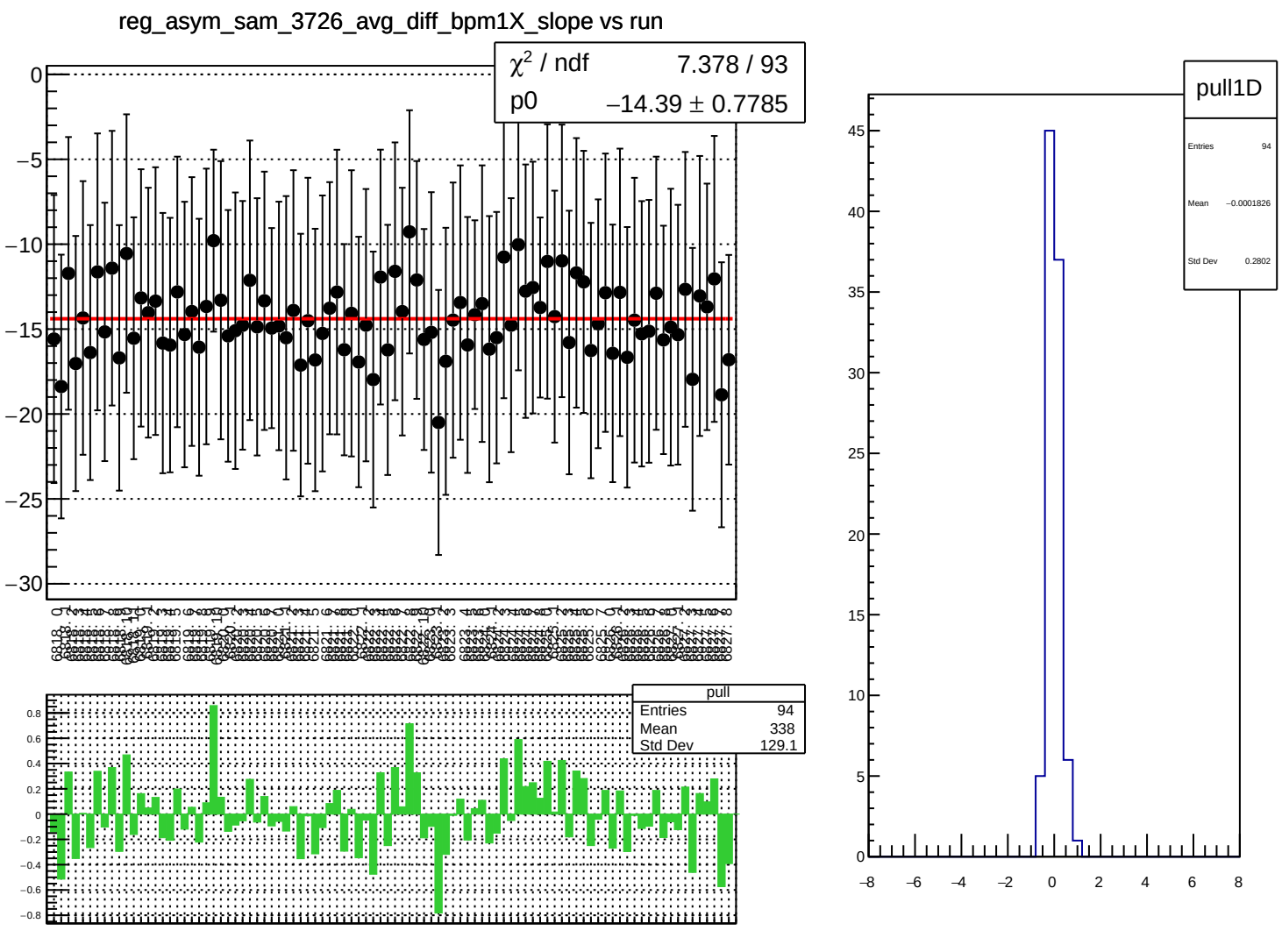

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.49 / 93
p0 −25.64 ± 0.3257
pull
Entries 94
Mean 94.03
Std Dev 0

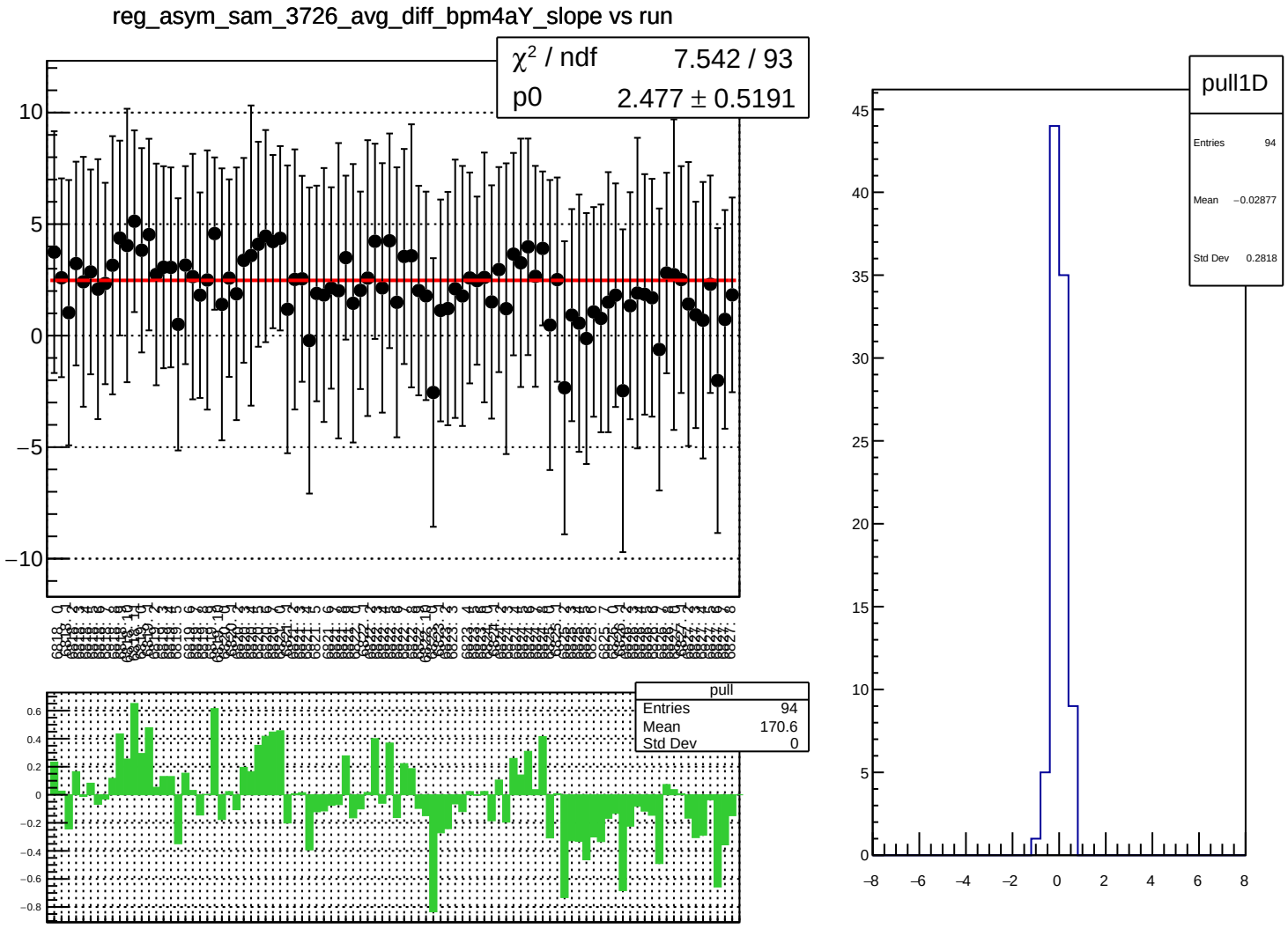

pull1D
Entries 94
Mean −0.01259
Std Dev 0.4997

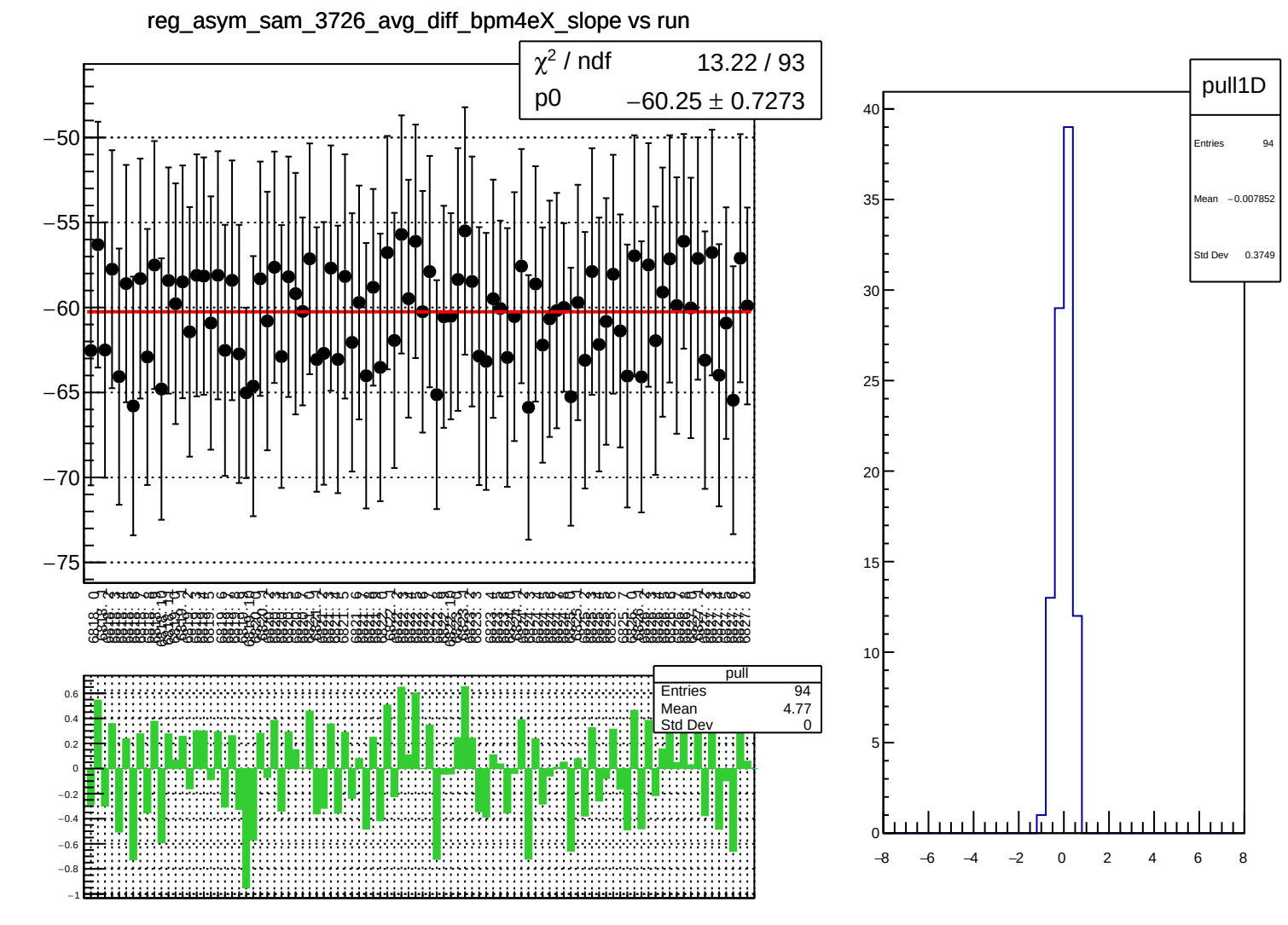

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.63 / 93
p0 7.069 ± 0.2695
pull
Entries 94
Mean 337.1
Std Dev 0

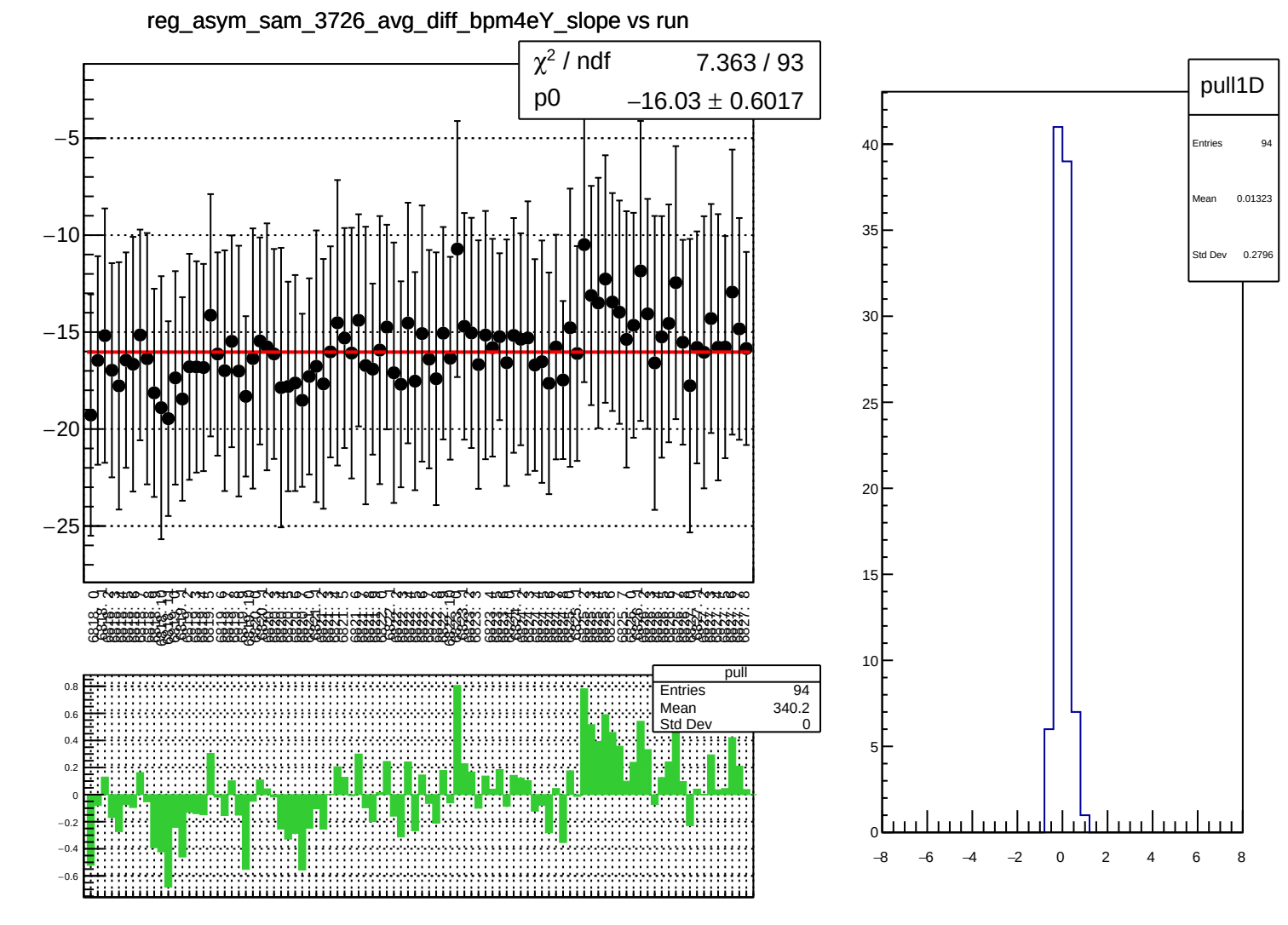

pull1D
Entries 94
Mean 0.01433
Std Dev 0.542

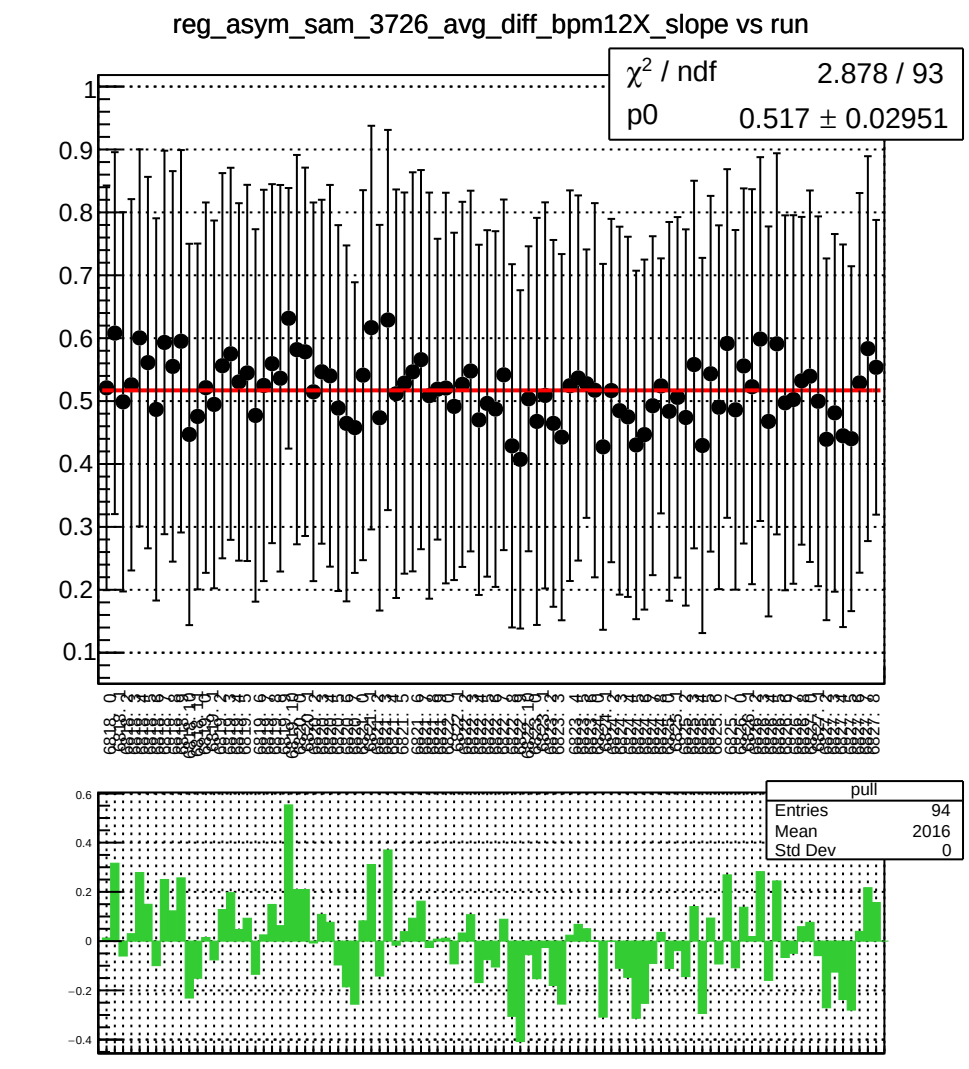

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.074 / 93
p0 0.4069 ± 0.01321
pull
Entries 94
Mean −724
Std Dev 0
pull1D
Entries 94
Mean 0.001134
Std Dev 0.2931

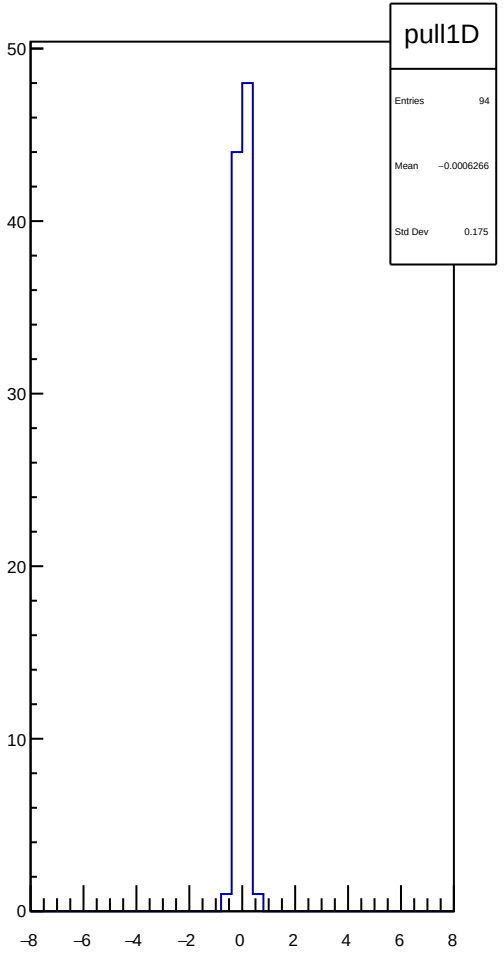

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 7.378 / 93
p0 −14.39 ± 0.7785
pull
Entries 94
Mean 338
Std Dev 129.1
pull1D
Entries 94
Mean −0.0001826
Std Dev 0.2802

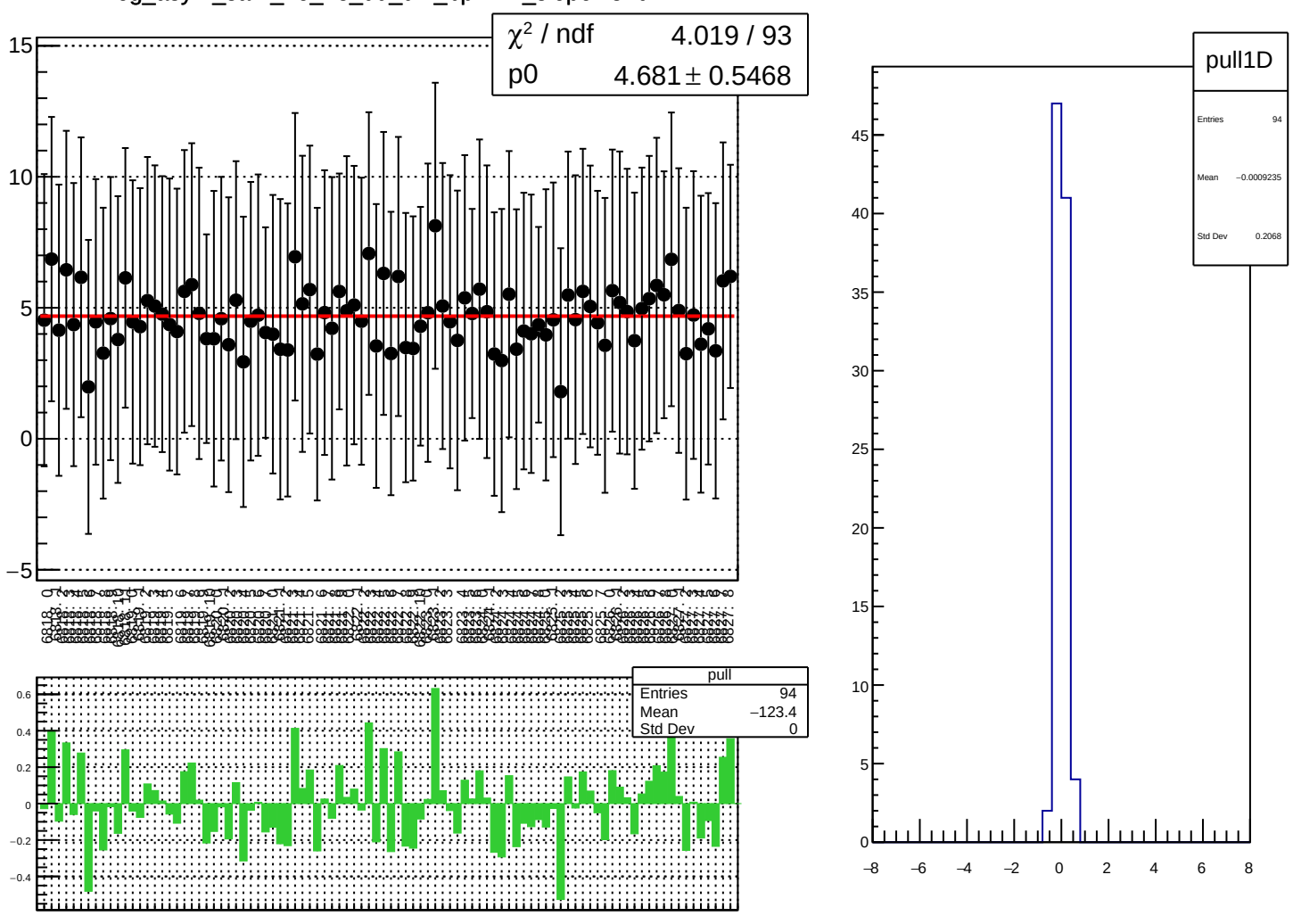

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.542 / 93
p0 2.477 ± 0.5191
pull
Entries 94
Mean 170.6
Std Dev 0
pull1D
Entries 94
Mean −0.02877
Std Dev 0.2818

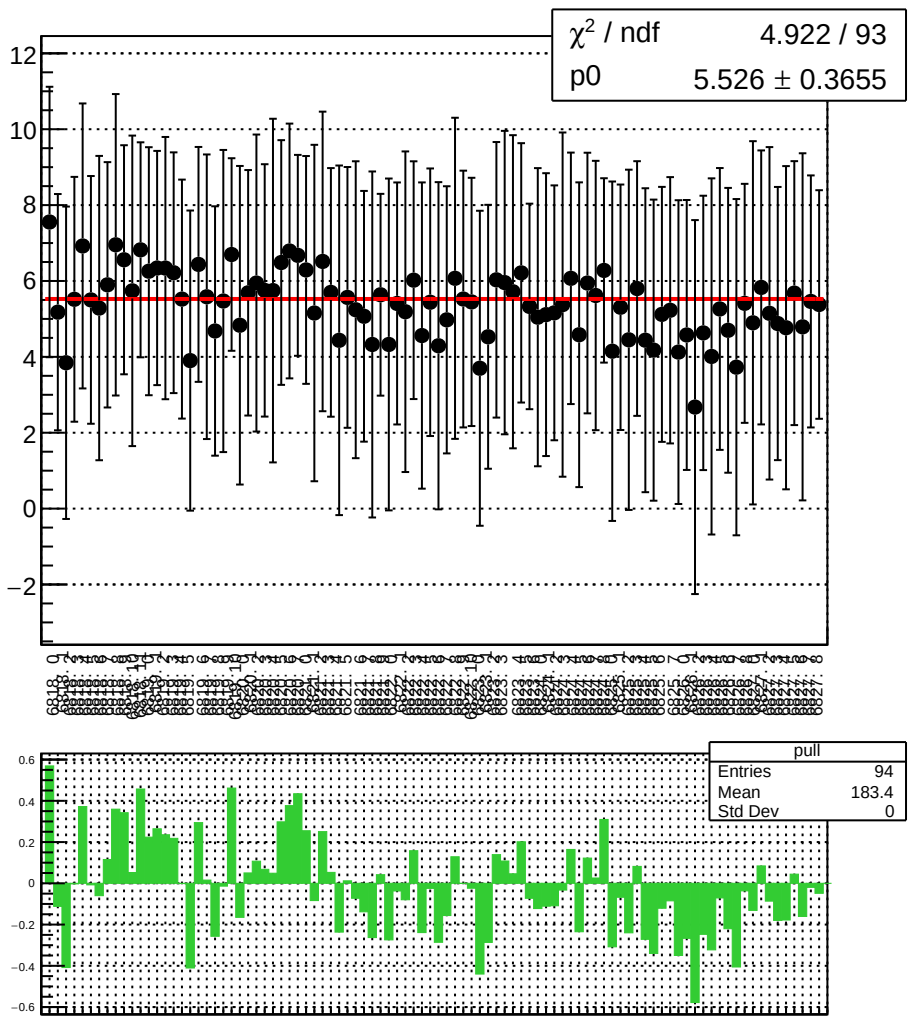

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.22 / 93
p0 −60.25 ± 0.7273
pull
Entries 94
Mean 4.77
Std Dev 0
pull1D
Entries 94
Mean −0.007852
Std Dev 0.3749

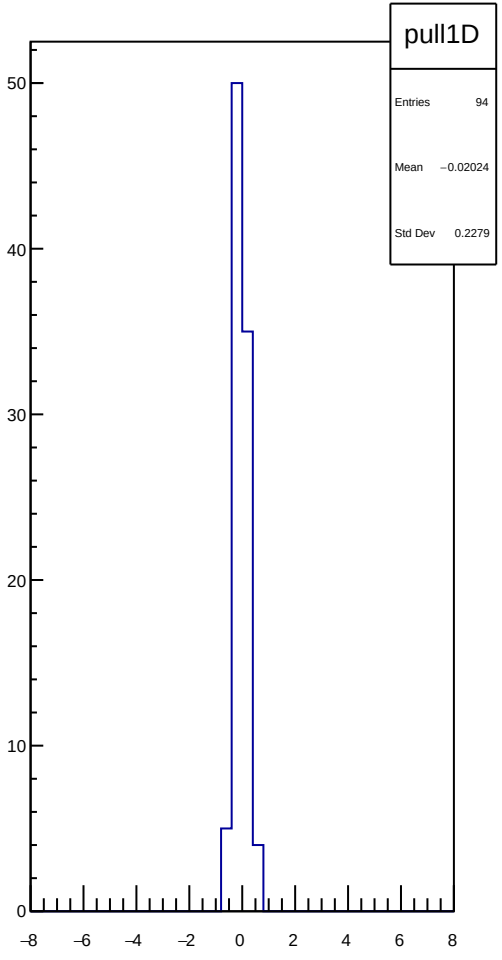

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.363 / 93
p0 −16.03 ± 0.6017
pull
Entries 94
Mean 340.2
Std Dev 0
pull1D
Entries 94
Mean 0.01323
Std Dev 0.2796

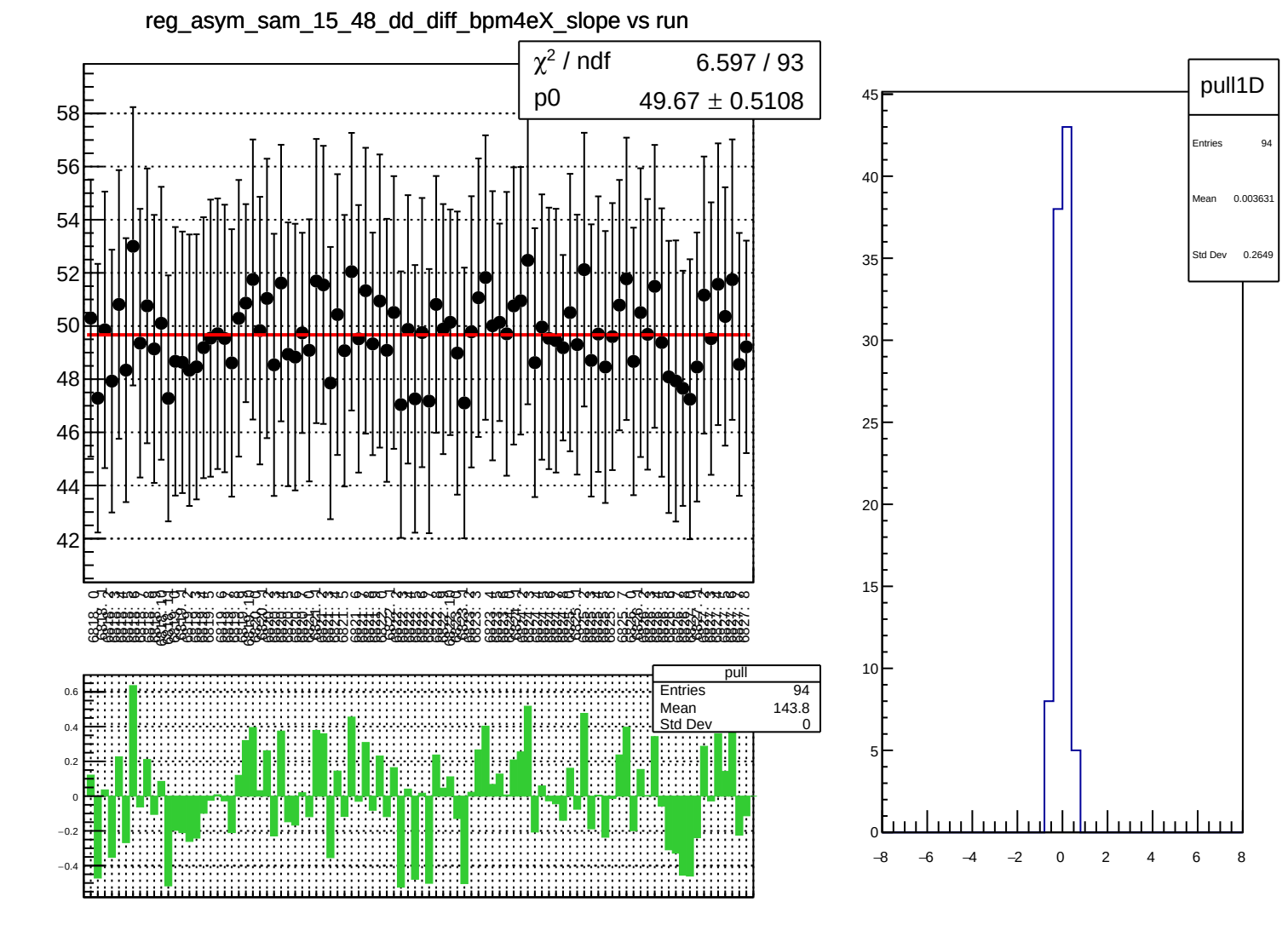

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 2.878 / 93
p0 0.517 ± 0.02951
pull
Entries 94
Mean 2016
Std Dev 0

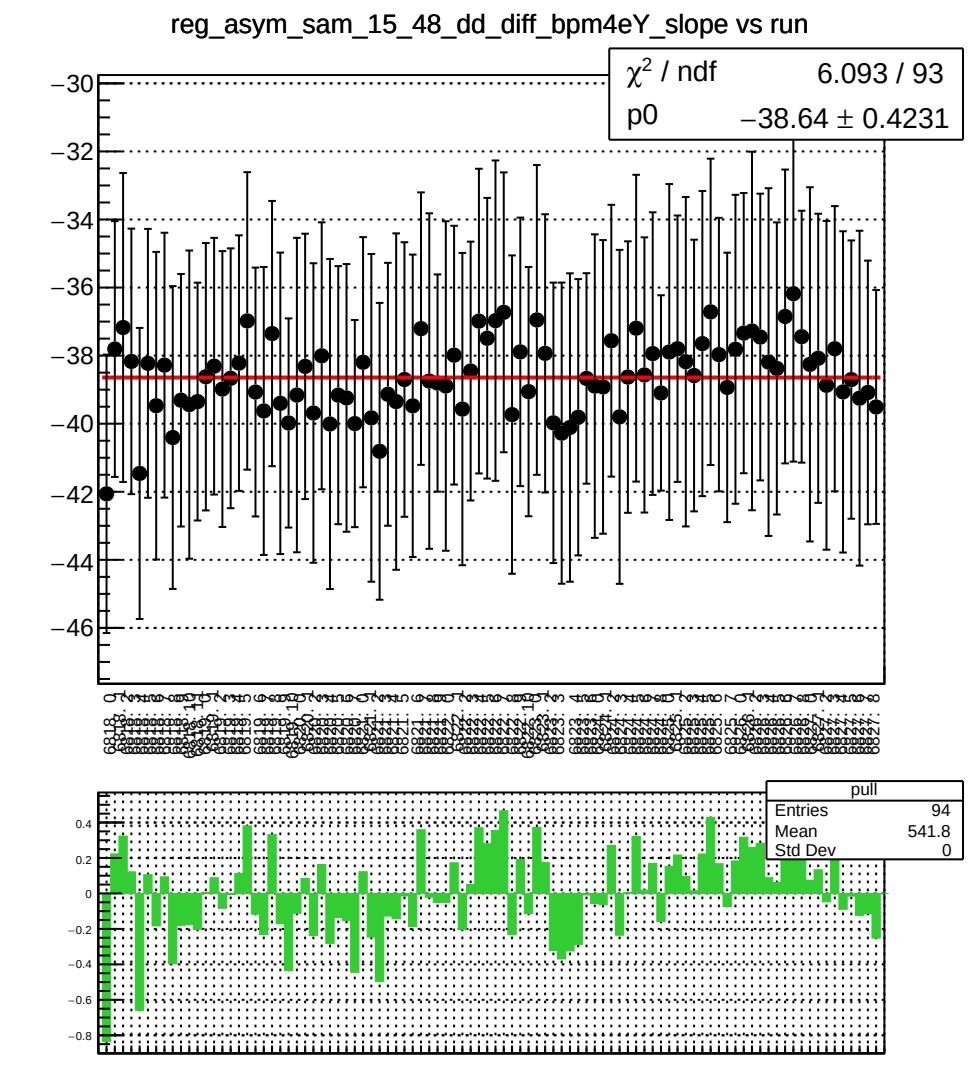

pull1D
Entries 94
Mean −0.0006266
Std Dev 0.175

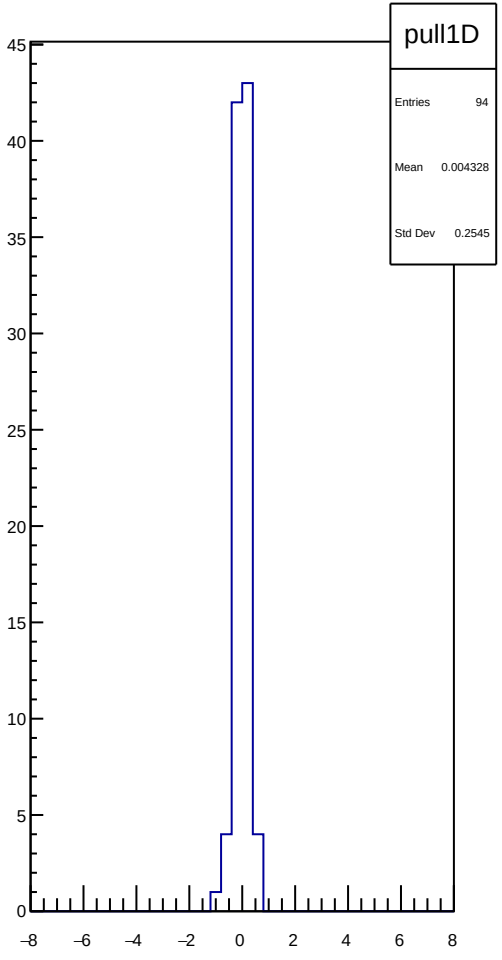

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.019 / 93
p0 4.681 ± 0.5468
pull
Entries 94
Mean −123.4
Std Dev 0
pull1D
Entries 94
Mean −0.0009235
Std Dev 0.2068

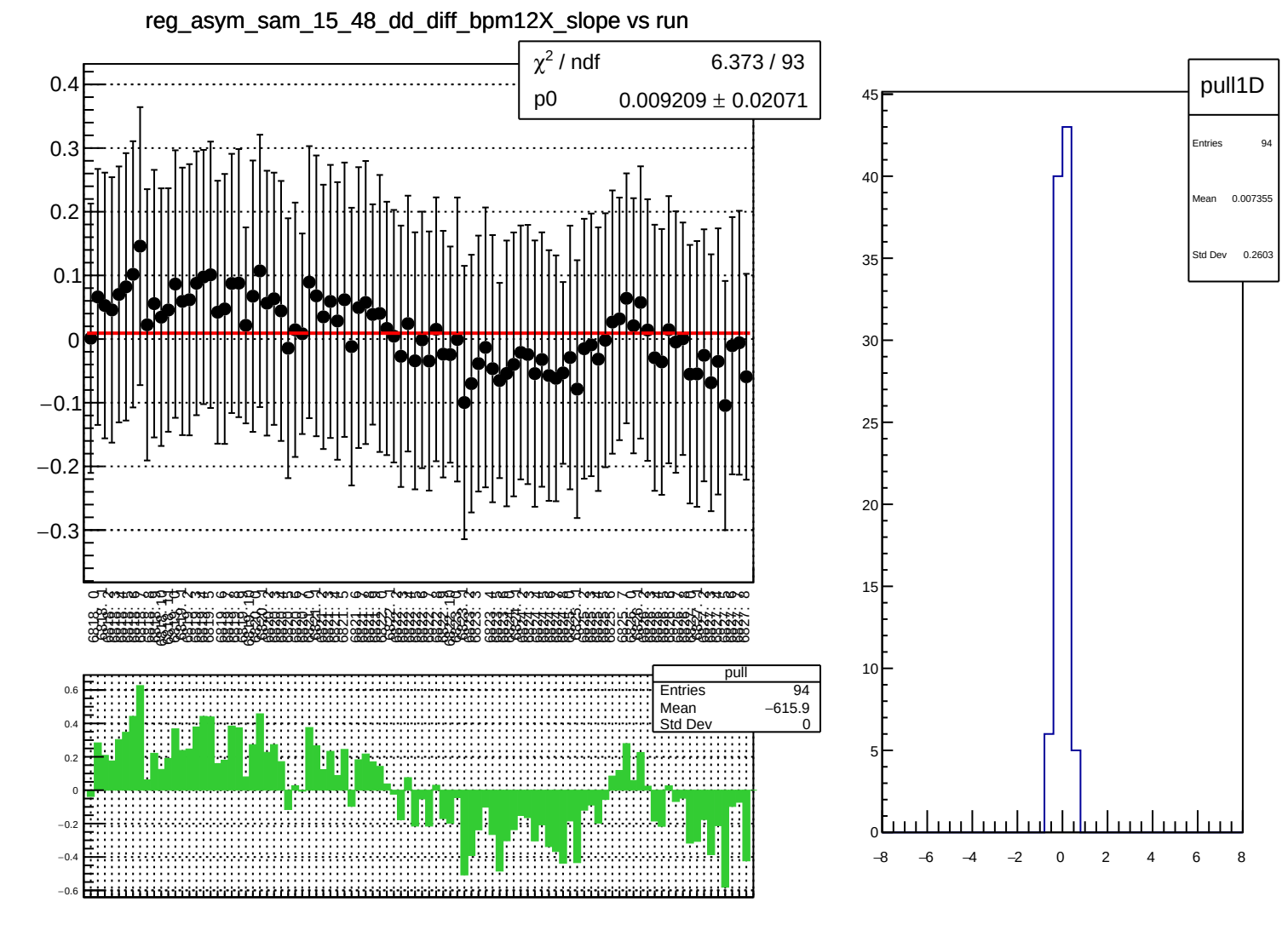

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.922 / 93
p0 5.526 ± 0.3655
pull
Entries 94
Mean 183.4
Std Dev 0

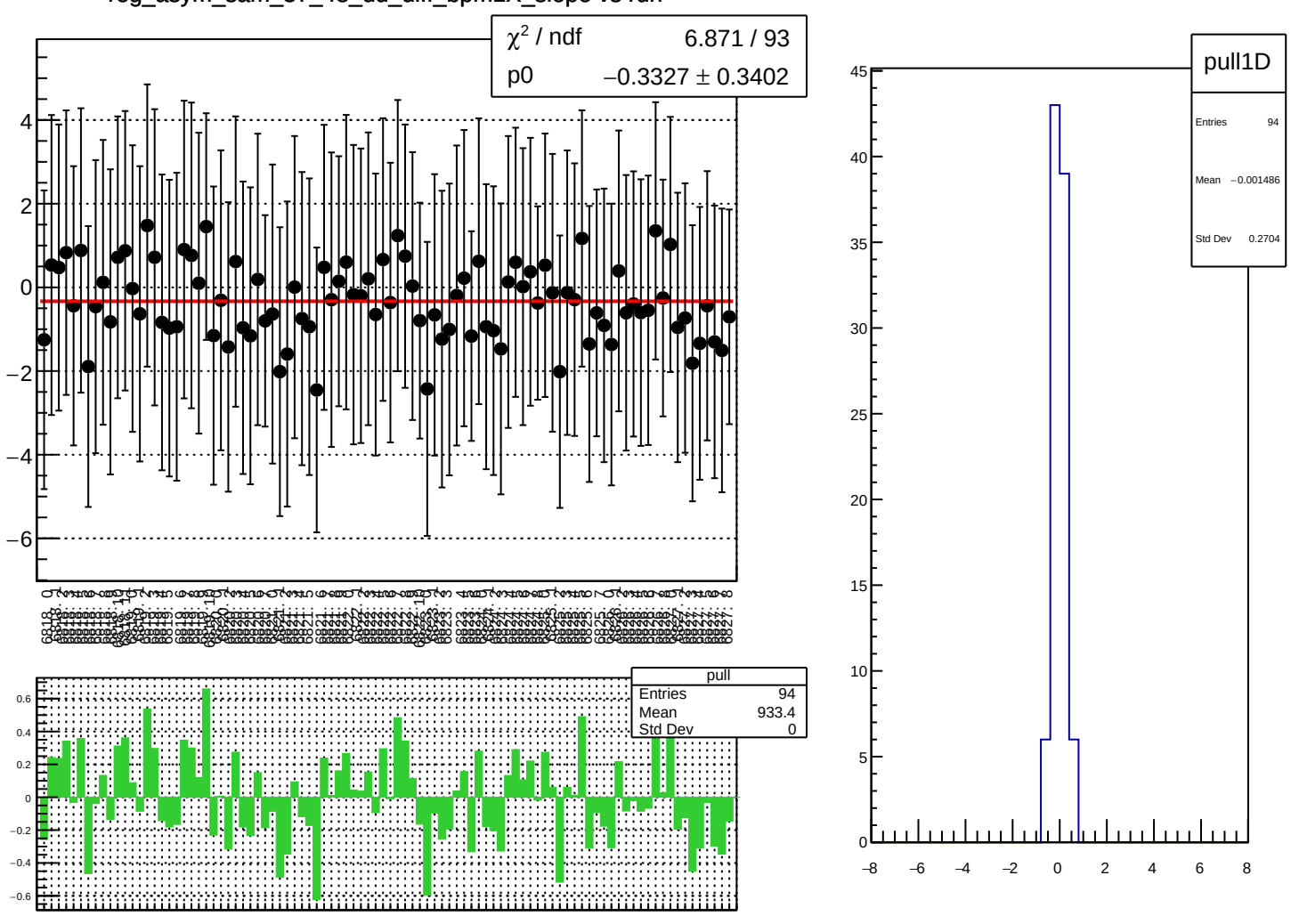

pull1D
Entries 94
Mean −0.02024
Std Dev 0.2279

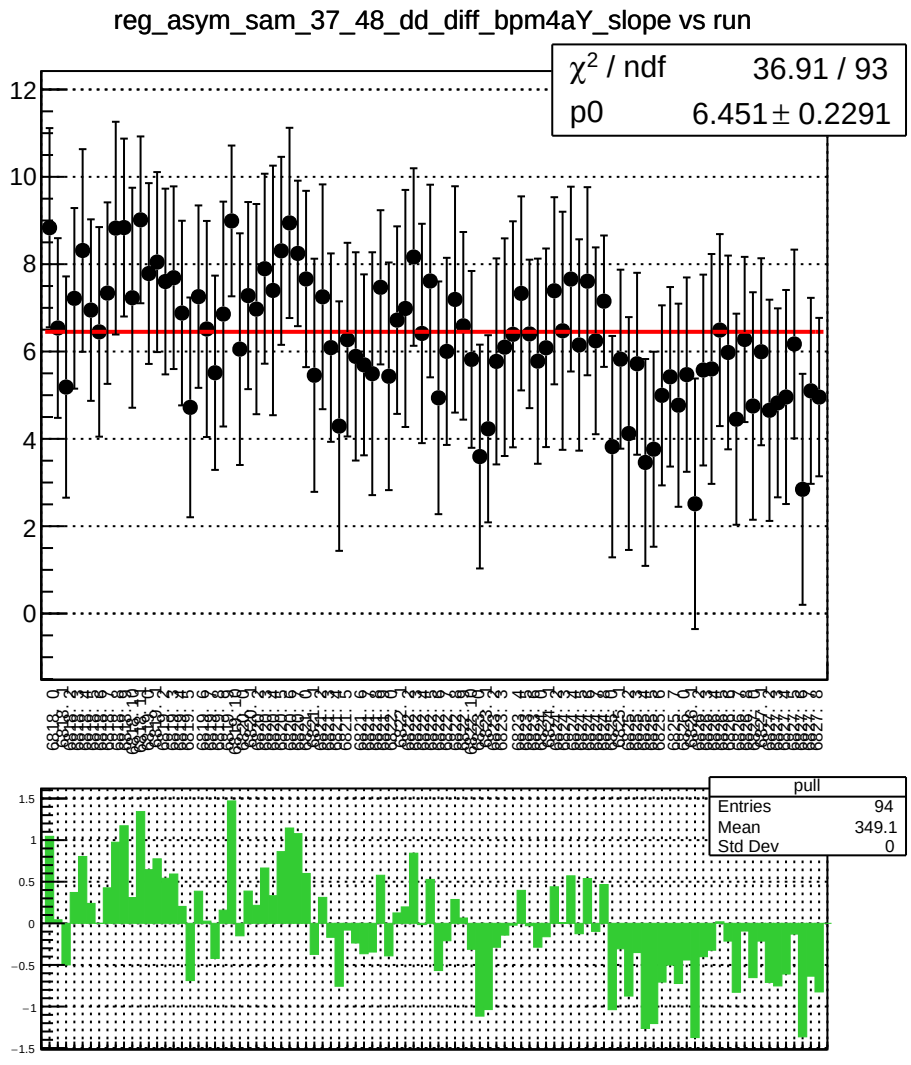

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.597 / 93
p0 49.67 ± 0.5108
pull
Entries 94
Mean 143.8
Std Dev 0
pull1D
Entries 94
Mean 0.003631
Std Dev 0.2649

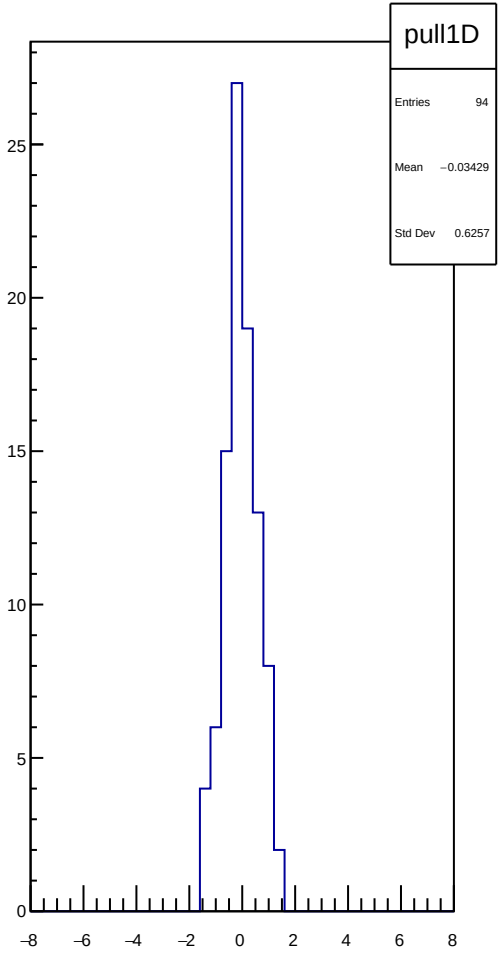

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.093 / 93
p0 −38.64 ± 0.4231
pull
Entries 94
Mean 541.8
Std Dev 0

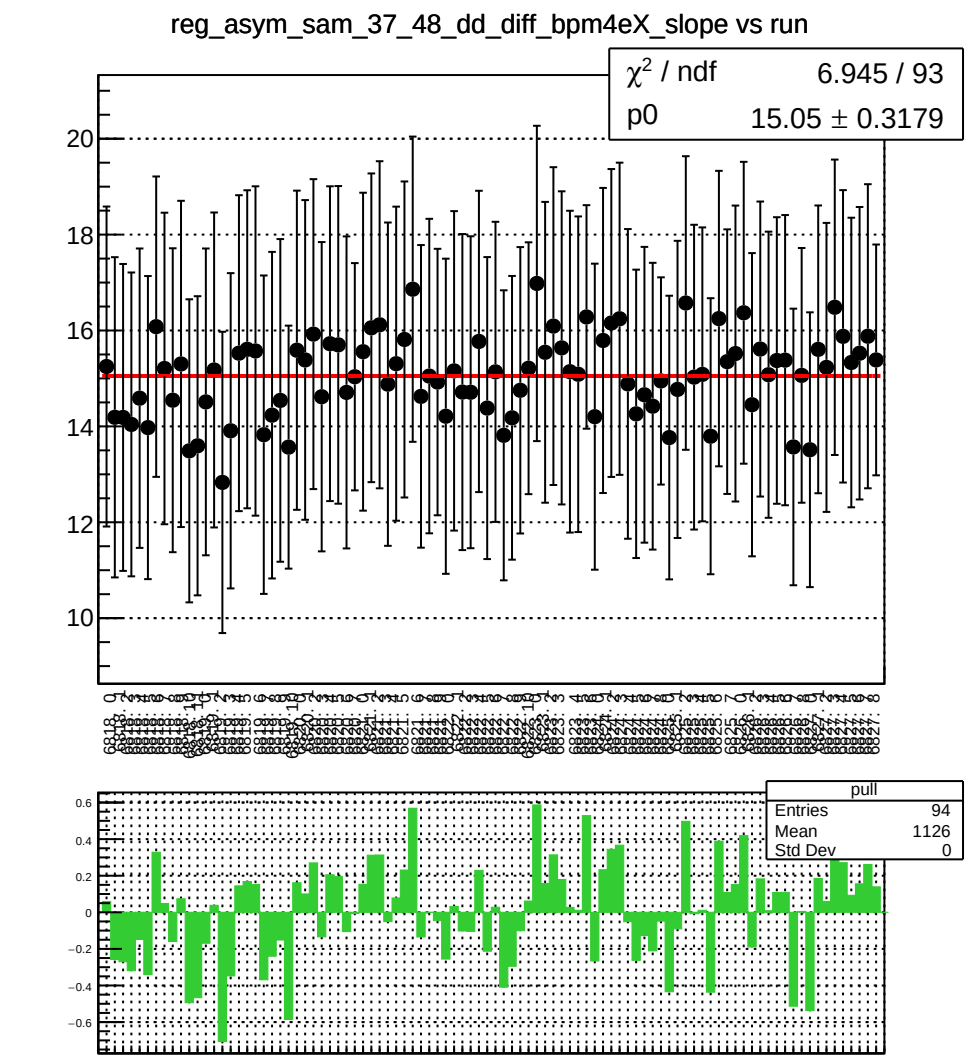

pull1D
Entries 94
Mean 0.004328
Std Dev 0.2545

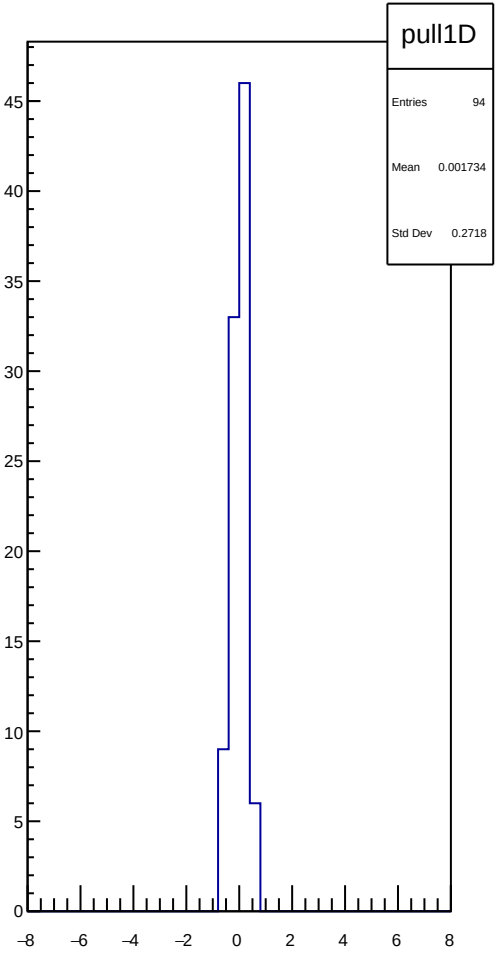

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 6.373 / 93
p0 0.009209 ± 0.02071
pull
Entries 94
Mean −615.9
Std Dev 0
pull1D
Entries 94
Mean 0.007355
Std Dev 0.2603

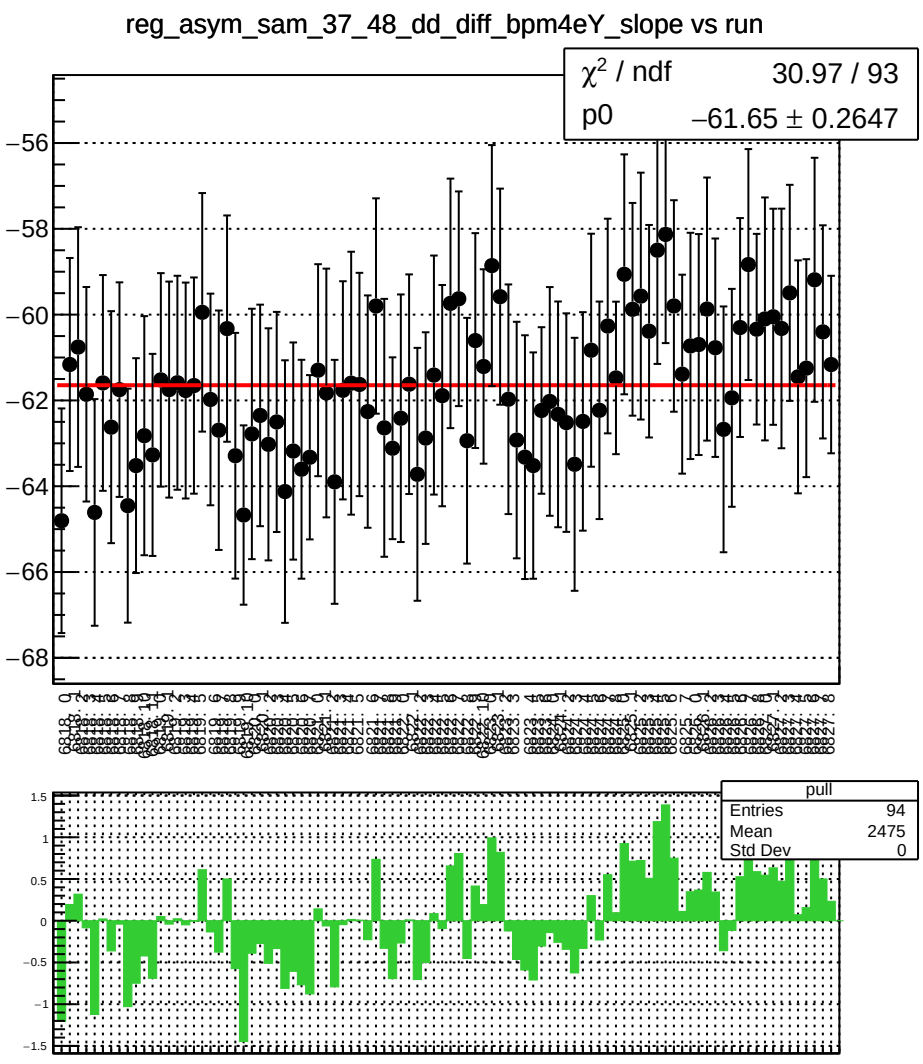

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.871 / 93
p0 −0.3327 ± 0.3402
pull
Entries 94
Mean 933.4
Std Dev 0
pull1D
Entries 94
Mean −0.001486
Std Dev 0.2704

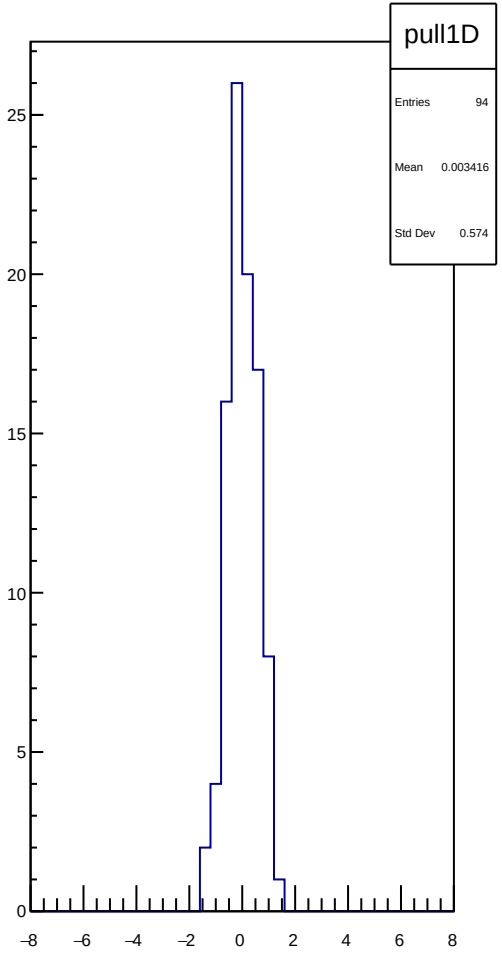

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 36.91 / 93
p0 6.451 ± 0.2291
pull
Entries 94
Mean 349.1
Std Dev 0

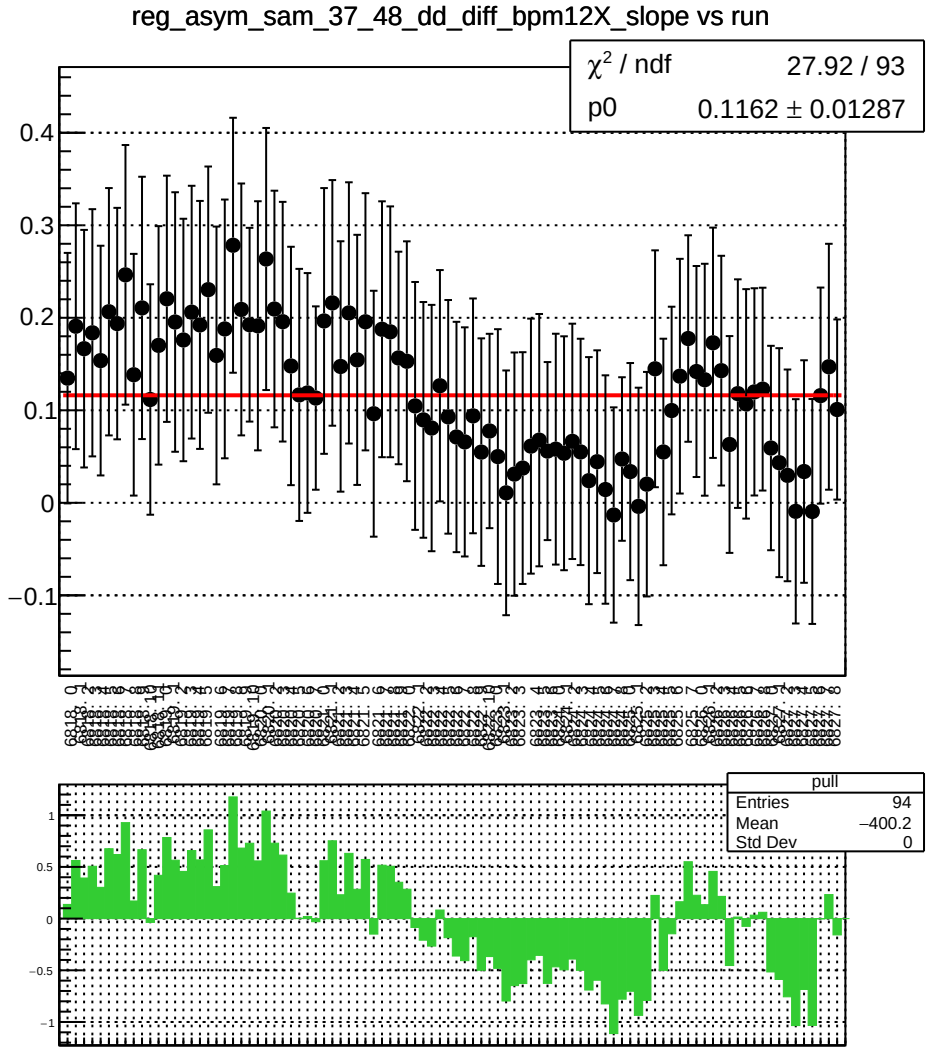

pull1D
Entries 94
Mean −0.03429
Std Dev 0.6257

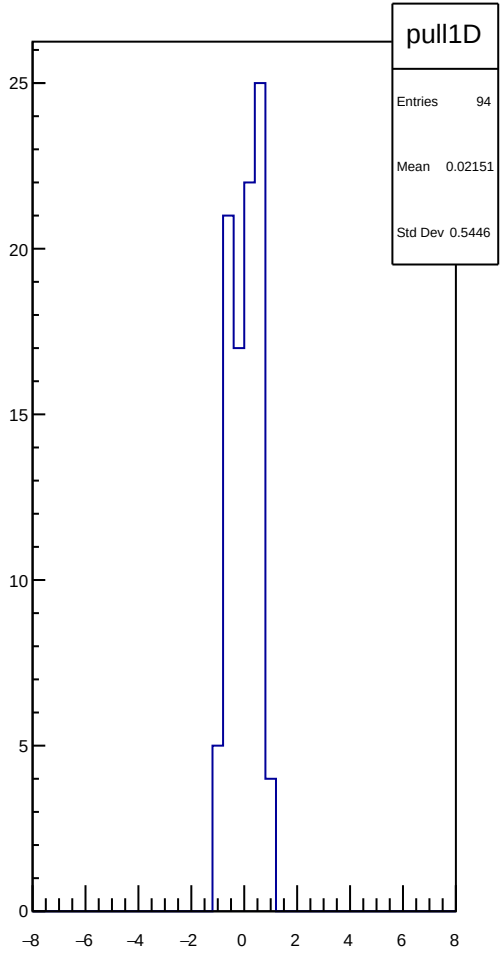

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.945 / 93
p0 15.05 ± 0.3179
pull
Entries 94
Mean 1126
Std Dev 0

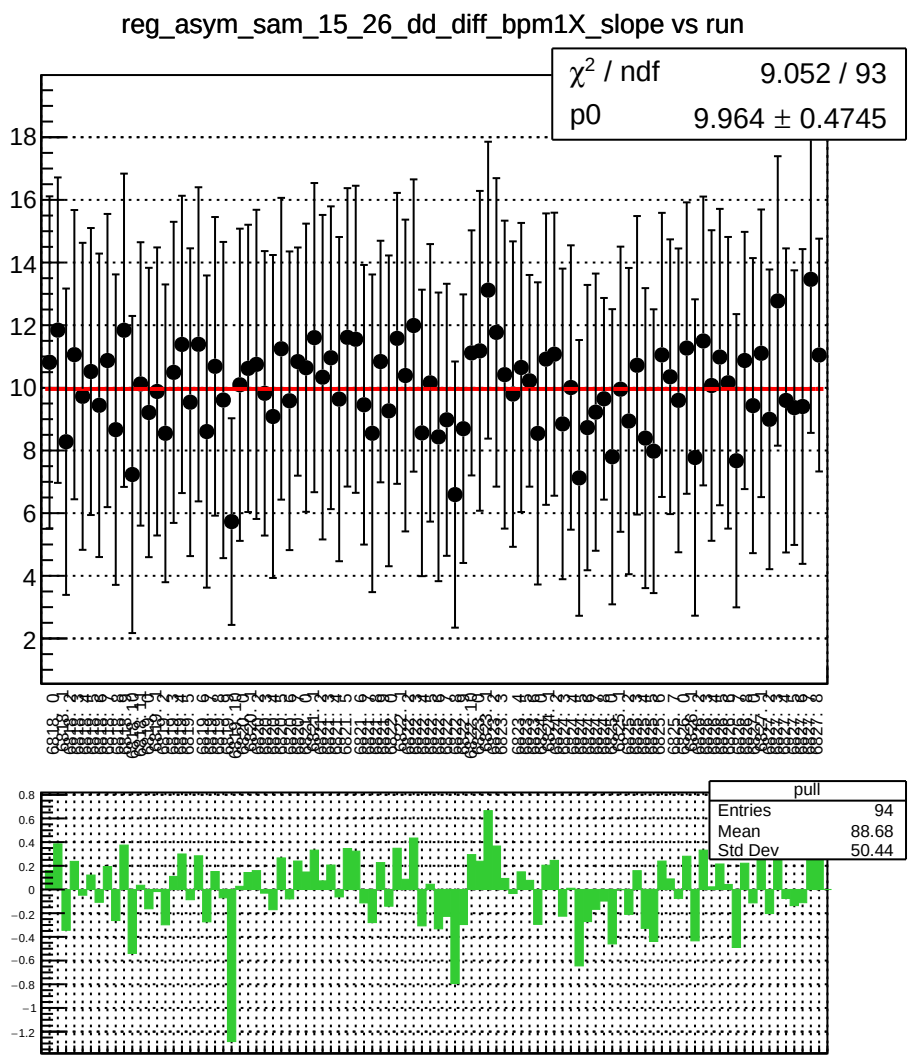

pull1D
Entries 94
Mean 0.001734
Std Dev 0.2718

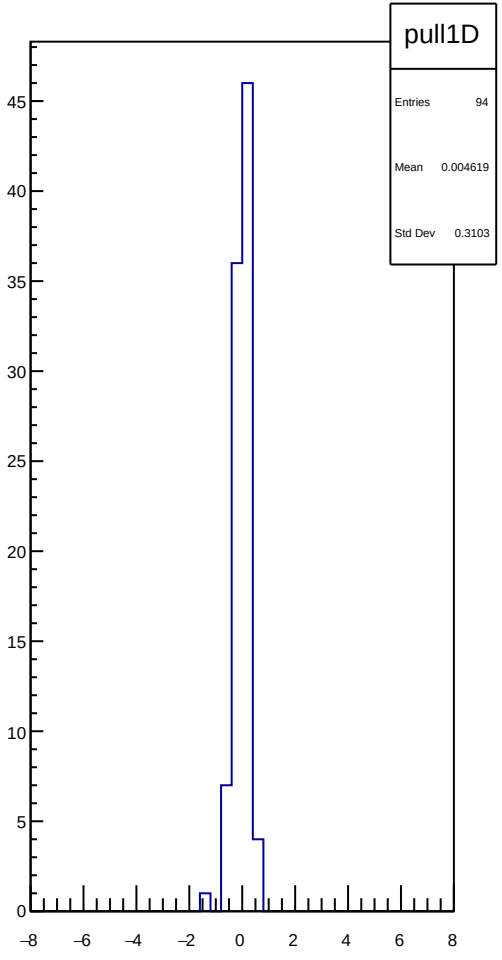

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.97 / 93
p0 −61.65 ± 0.2647
−56
−58
−60
−62
−64
−66
−68
pull
Entries 94
Mean 2475
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

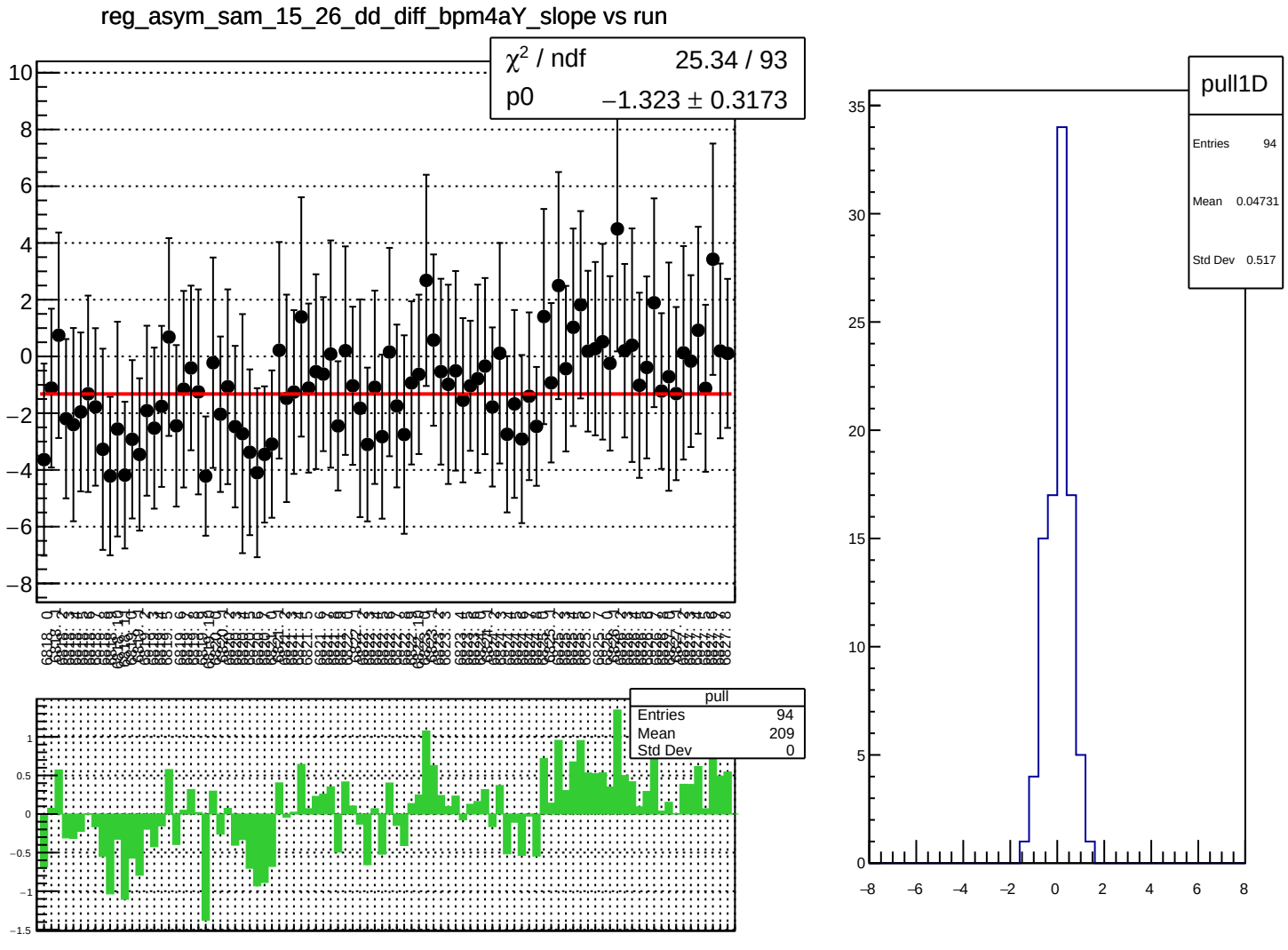

pull1D
Entries 94
Mean 0.003416
Std Dev 0.574
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

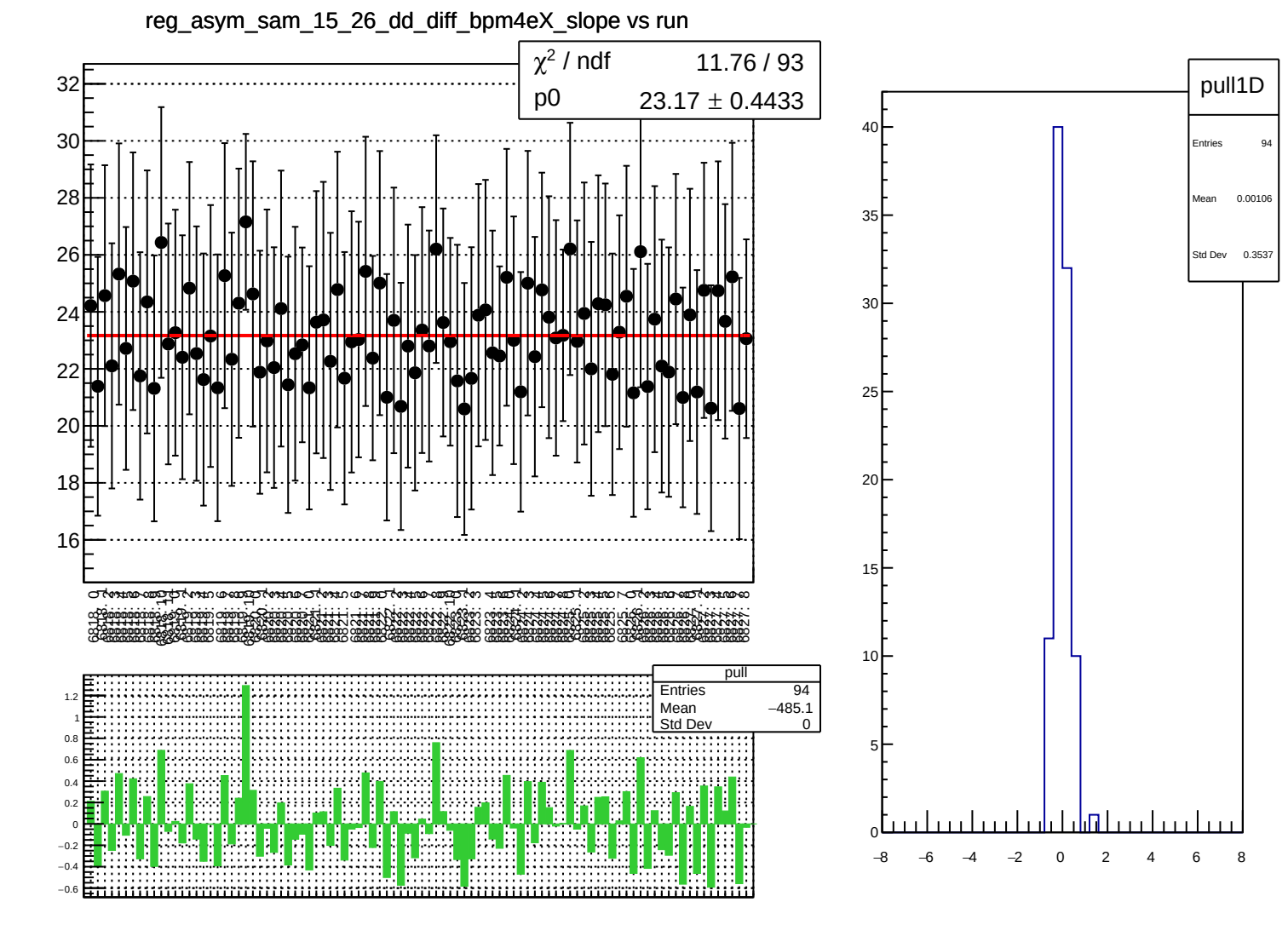

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 27.92 / 93
p0 0.1162 ± 0.01287
0.4
0.3
0.2
0.1
0
−0.1
pull
Entries 94
Mean −400.2
Std Dev 0
1
0.5
0
−0.5
−1

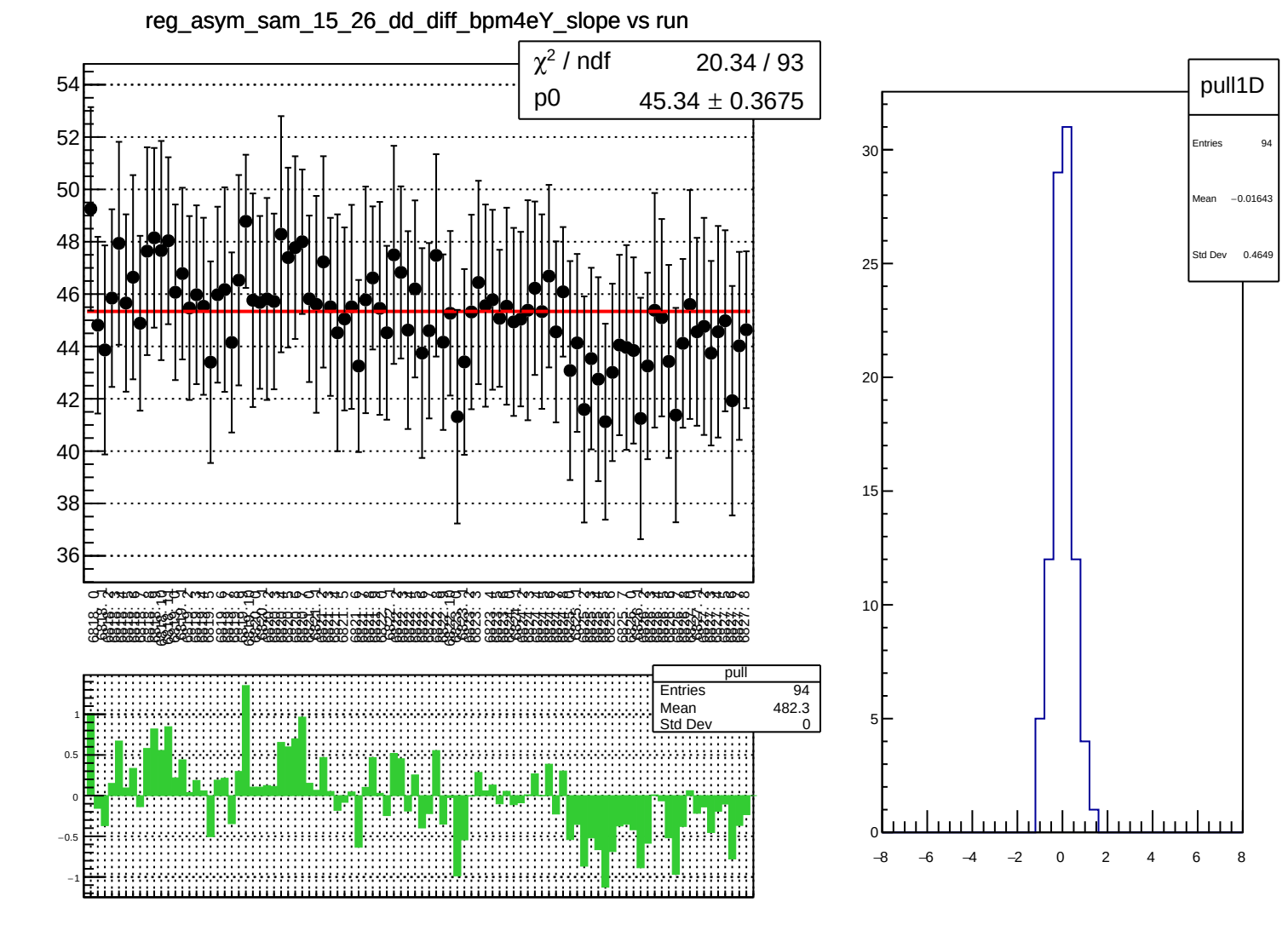

pull1D
Entries 94
Mean 0.02151
Std Dev 0.5446
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

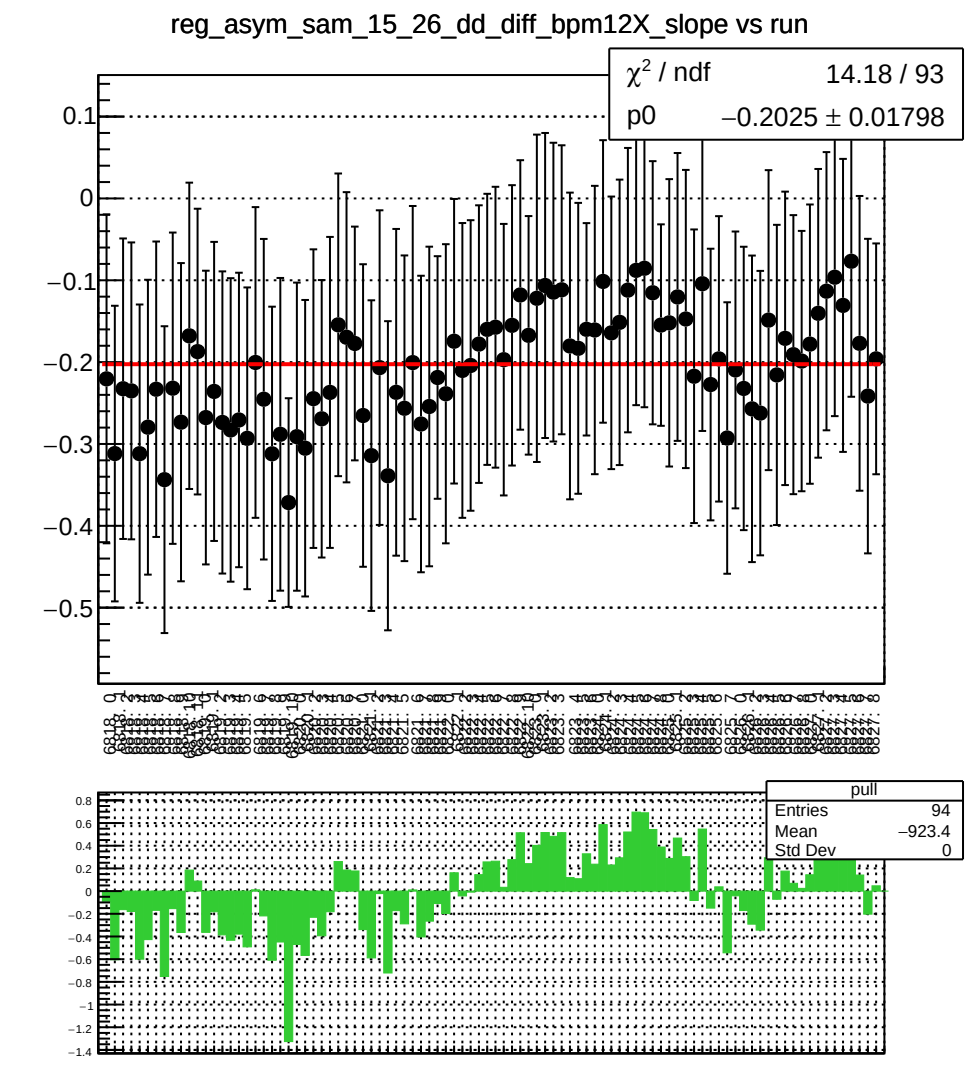

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.052 / 93
p0 9.964 ± 0.4745
pull
Entries 94
Mean 88.68
Std Dev 50.44

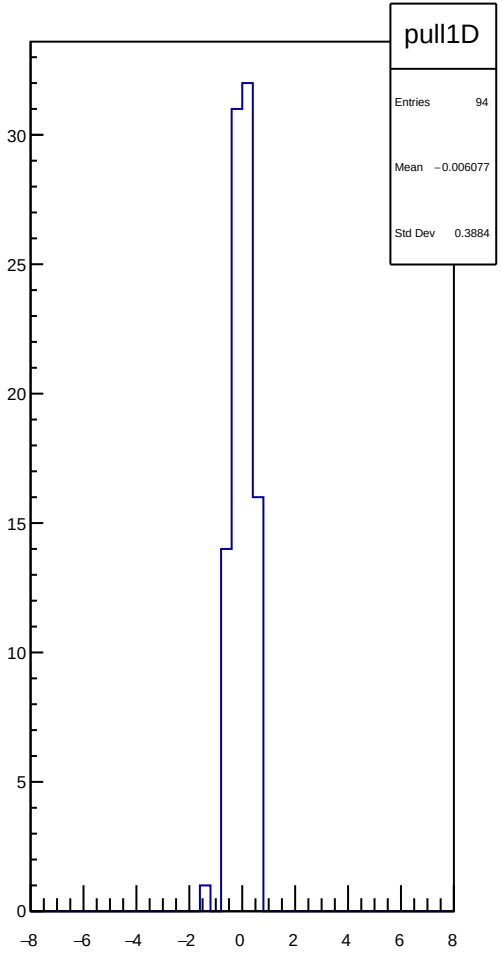

pull1D
Entries 94
Mean 0.004619
Std Dev 0.3103

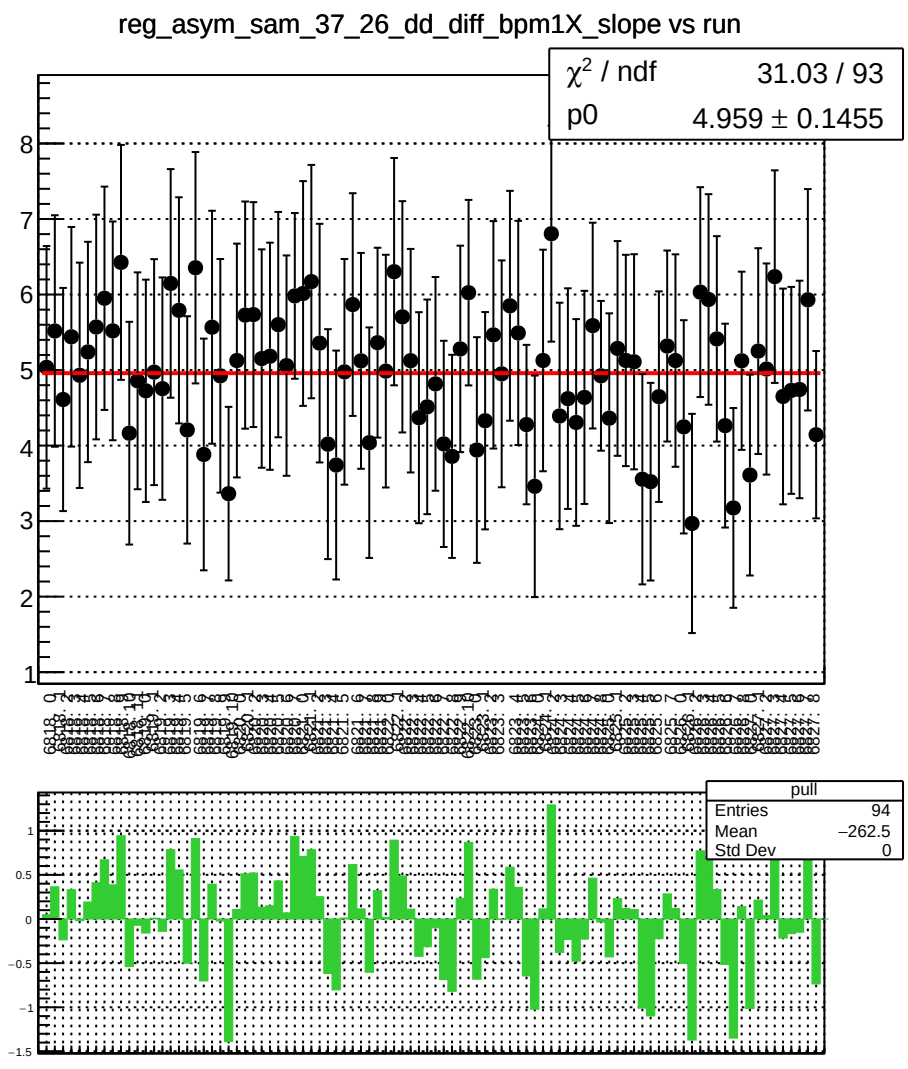

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 25.34 / 93
p0 −1.323 ± 0.3173
pull
Entries 94
Mean 209
Std Dev 0
pull1D
Entries 94
Mean 0.04731
Std Dev 0.517

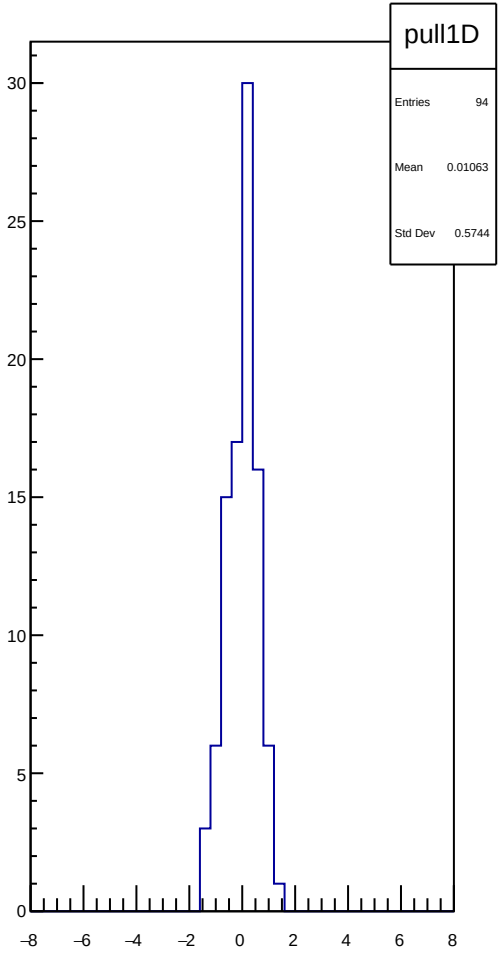

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.76 / 93
p0 23.17 ± 0.4433
pull
Entries 94
Mean −485.1
Std Dev 0
pull1D
Entries 94
Mean 0.00106
Std Dev 0.3537

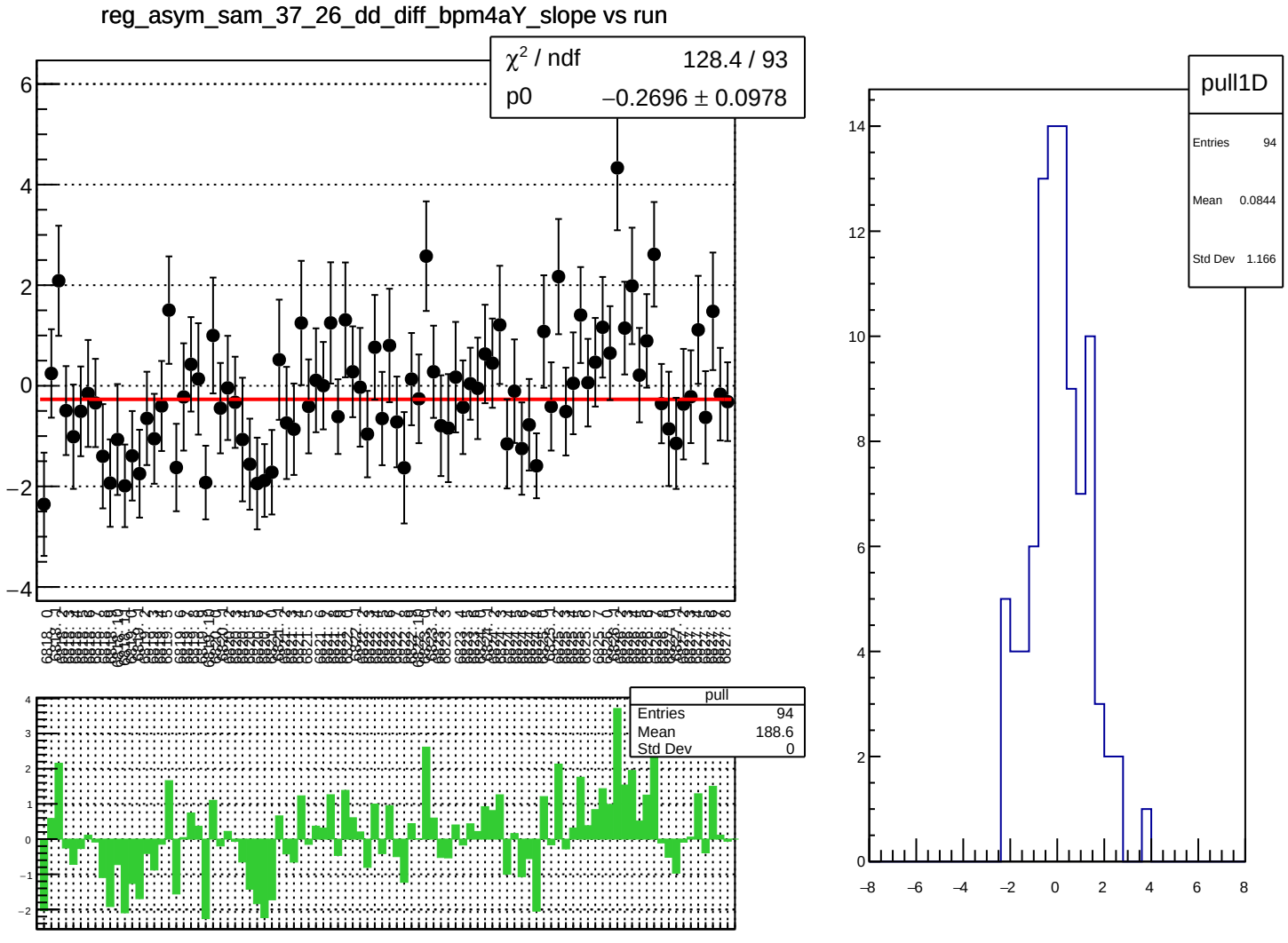

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.34 / 93
p0 45.34 ± 0.3675
pull
Entries 94
Mean 482.3
Std Dev 0
pull1D
Entries 94
Mean −0.01643
Std Dev 0.4649

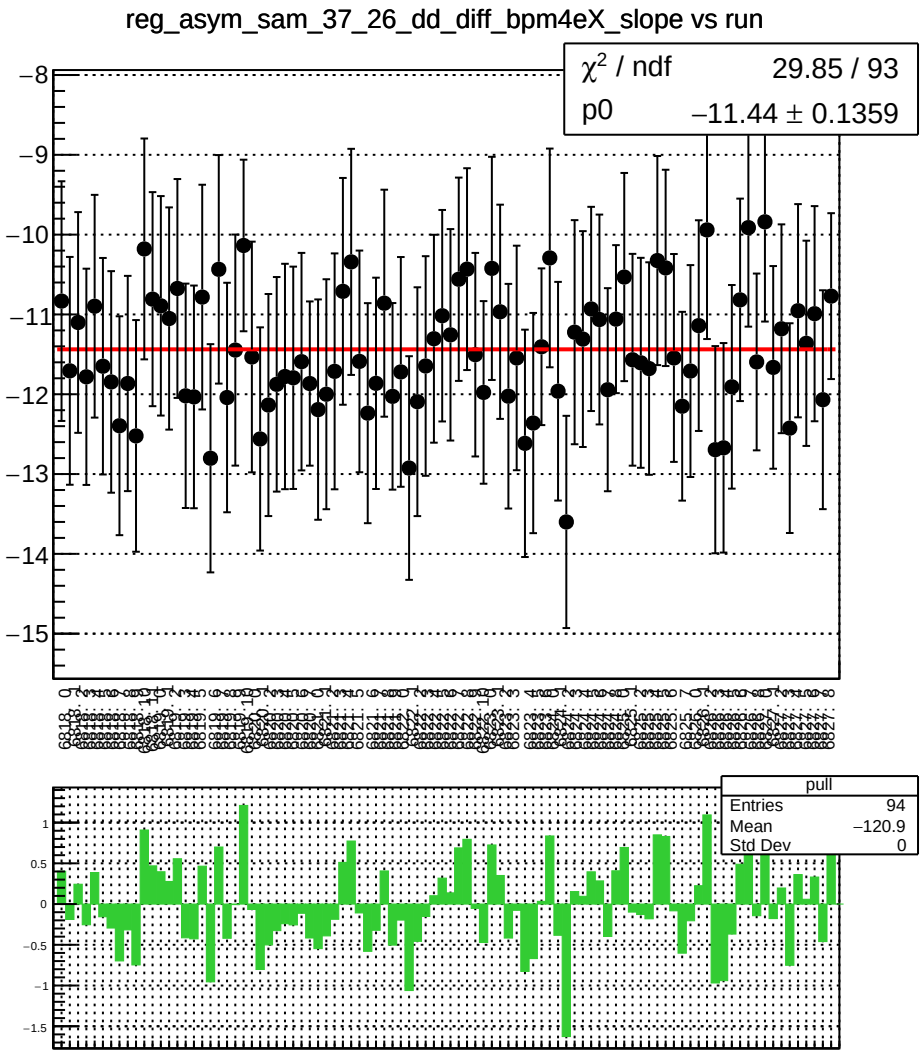

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 14.18 / 93
p0 −0.2025 ± 0.01798
pull
Entries 94
Mean −923.4
Std Dev 0

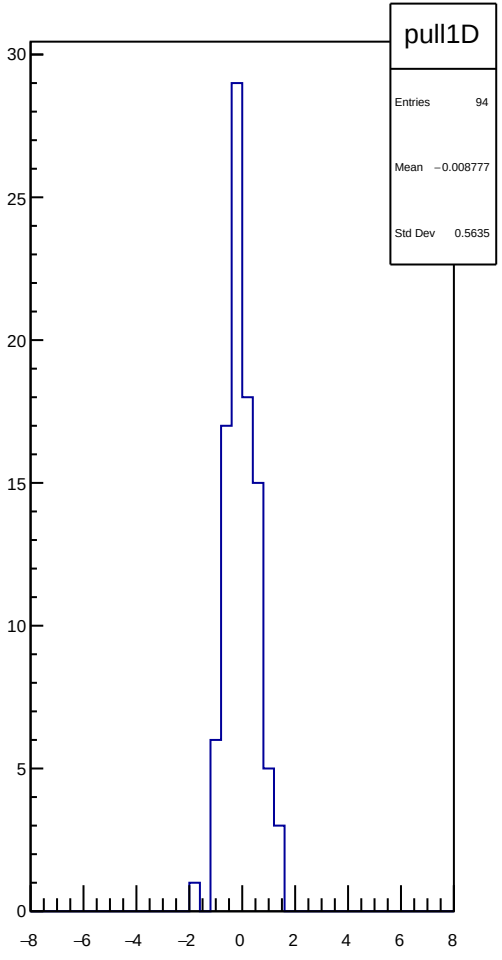

pull1D
Entries 94
Mean −0.006077
Std Dev 0.3884

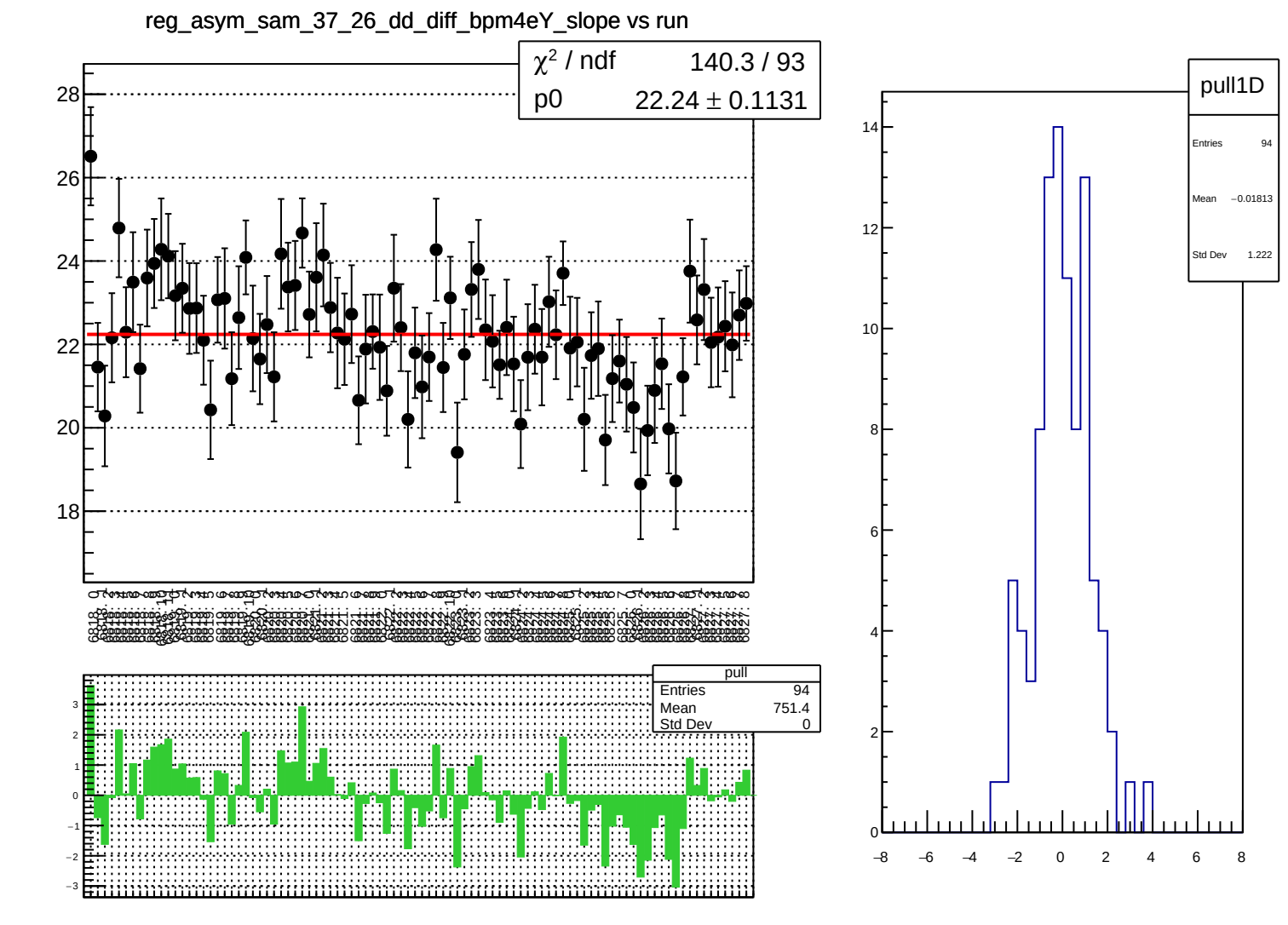

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 31.03 / 93
p0 4.959 ± 0.1455
pull
Entries 94
Mean −262.5
Std Dev 0

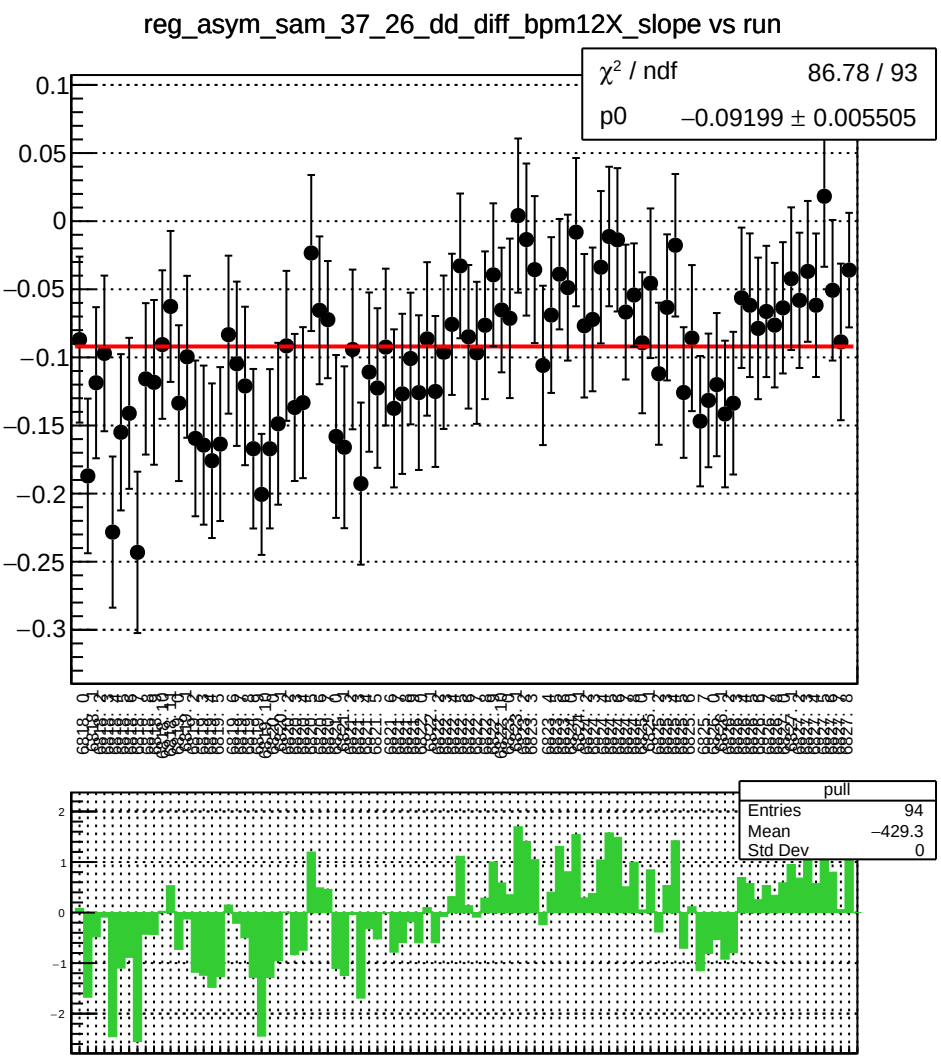

pull1D
Entries 94
Mean 0.01063
Std Dev 0.5744

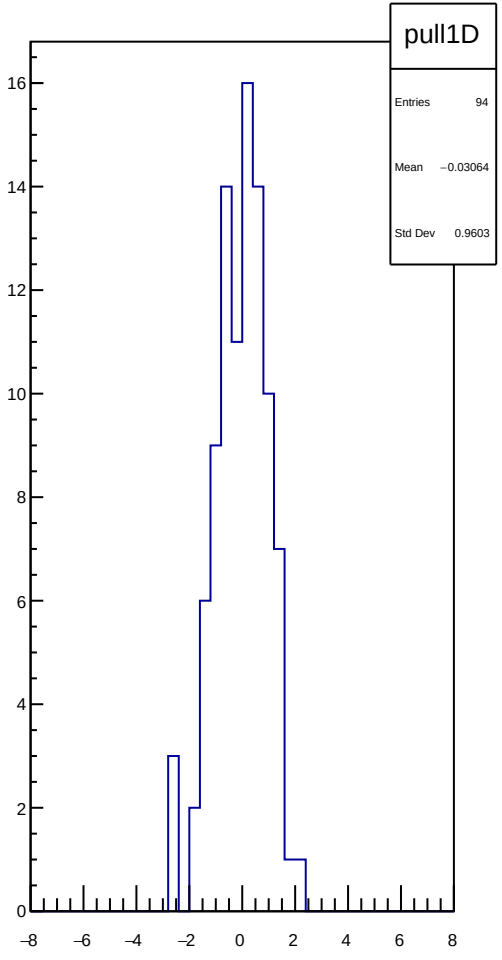

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 128.4 / 93
p0 −0.2696 ± 0.0978
pull
Entries 94
Mean 188.6
Std Dev 0
pull1D
Entries 94
Mean 0.0844
Std Dev 1.166

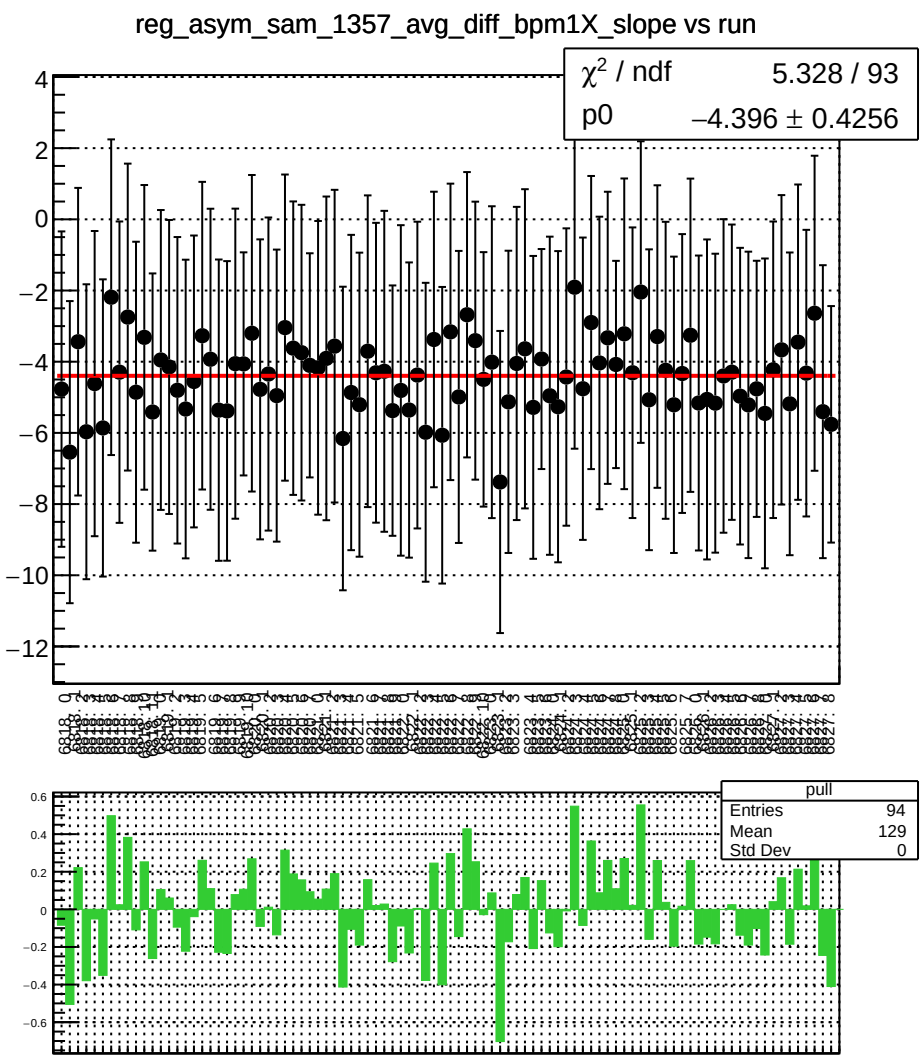

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.85 / 93
p0 −11.44 ± 0.1359
pull
Entries 94
Mean −120.9
Std Dev 0

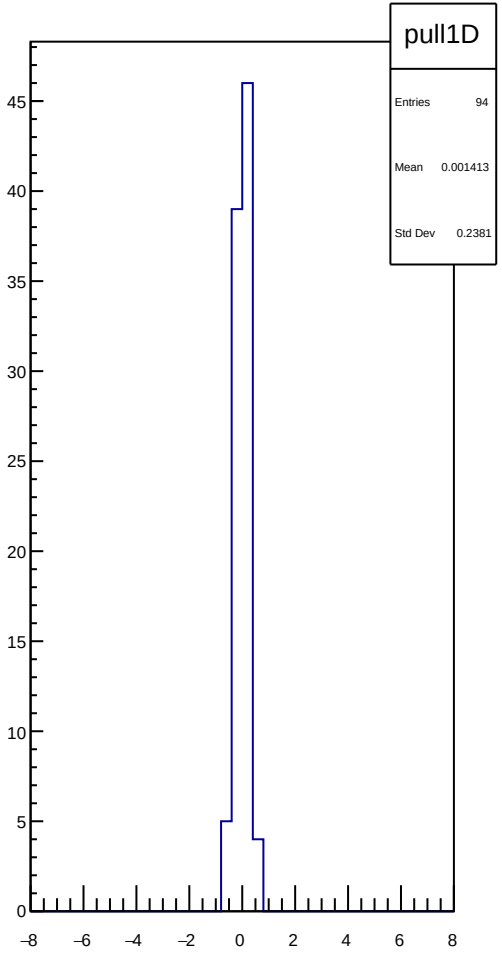

pull1D
Entries 94
Mean −0.008777
Std Dev 0.5635

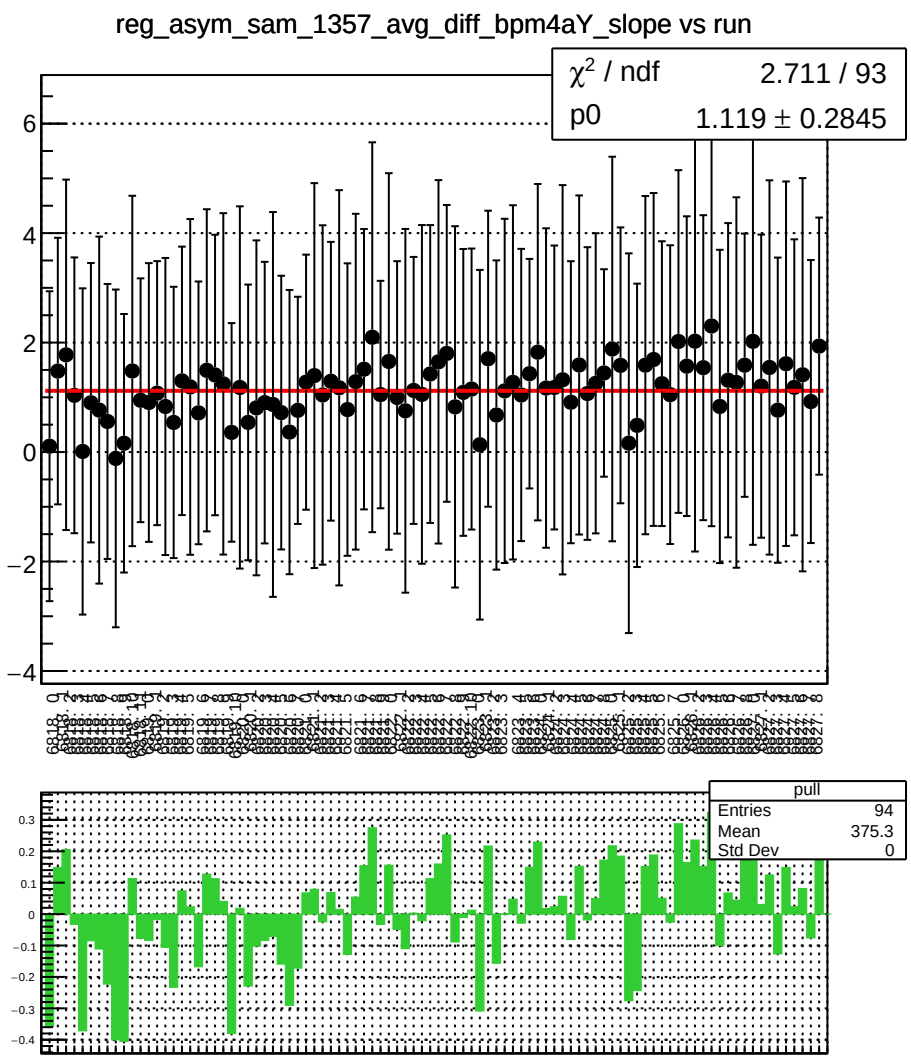

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 140.3 / 93
p0 22.24 ± 0.1131
pull
Entries 94
Mean 751.4
Std Dev 0
pull1D
Entries 94
Mean −0.01813
Std Dev 1.222

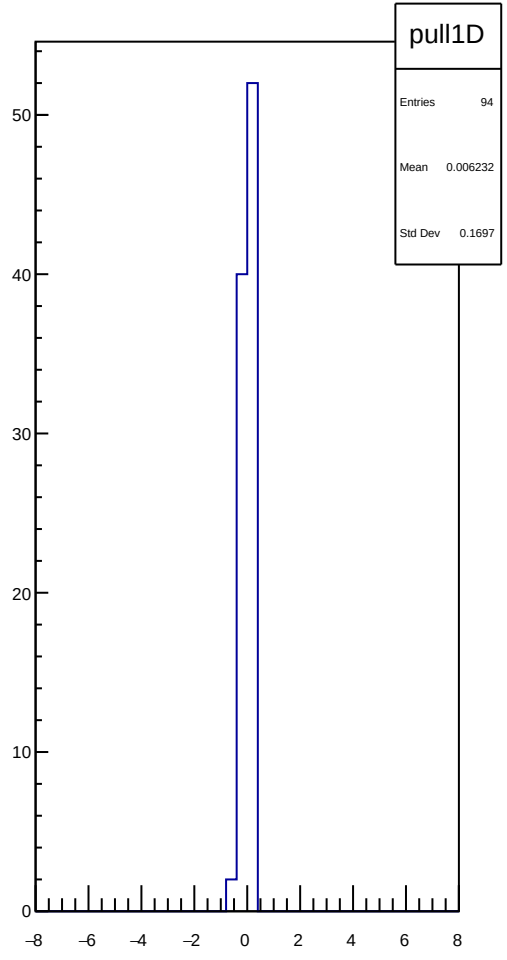

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 86.78 / 93
p0 −0.09199 ± 0.005505
pull
Entries 94
Mean −429.3
Std Dev 0

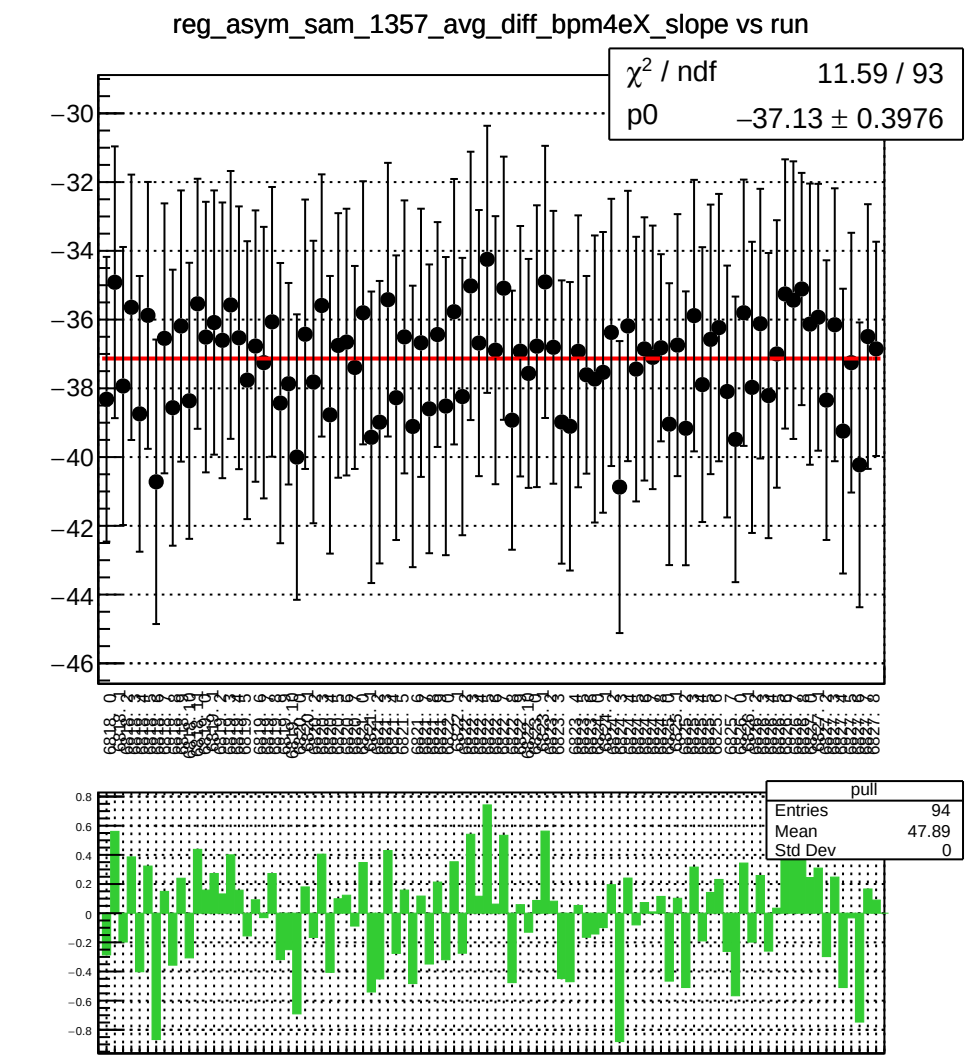

pull1D
Entries 94
Mean −0.03064
Std Dev 0.9603

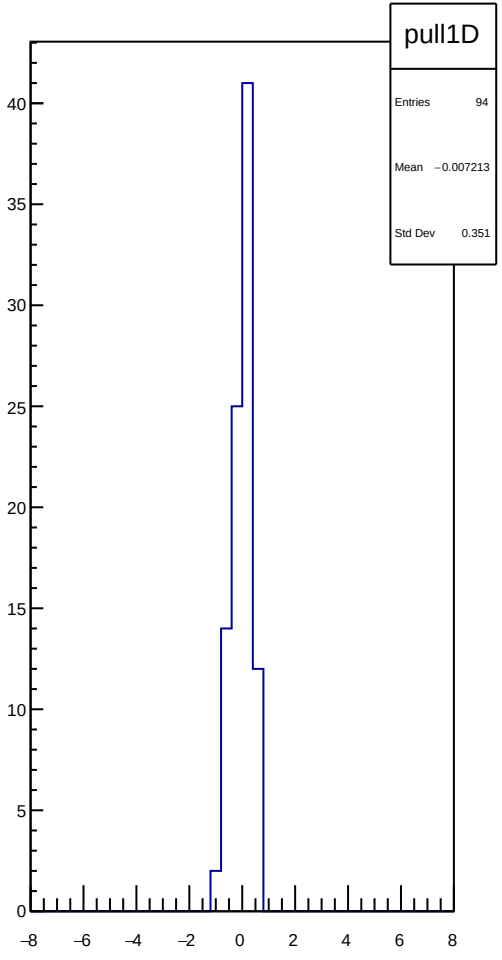

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 5.328 / 93
p0 −4.396 ± 0.4256
pull
Entries 94
Mean 129
Std Dev 0

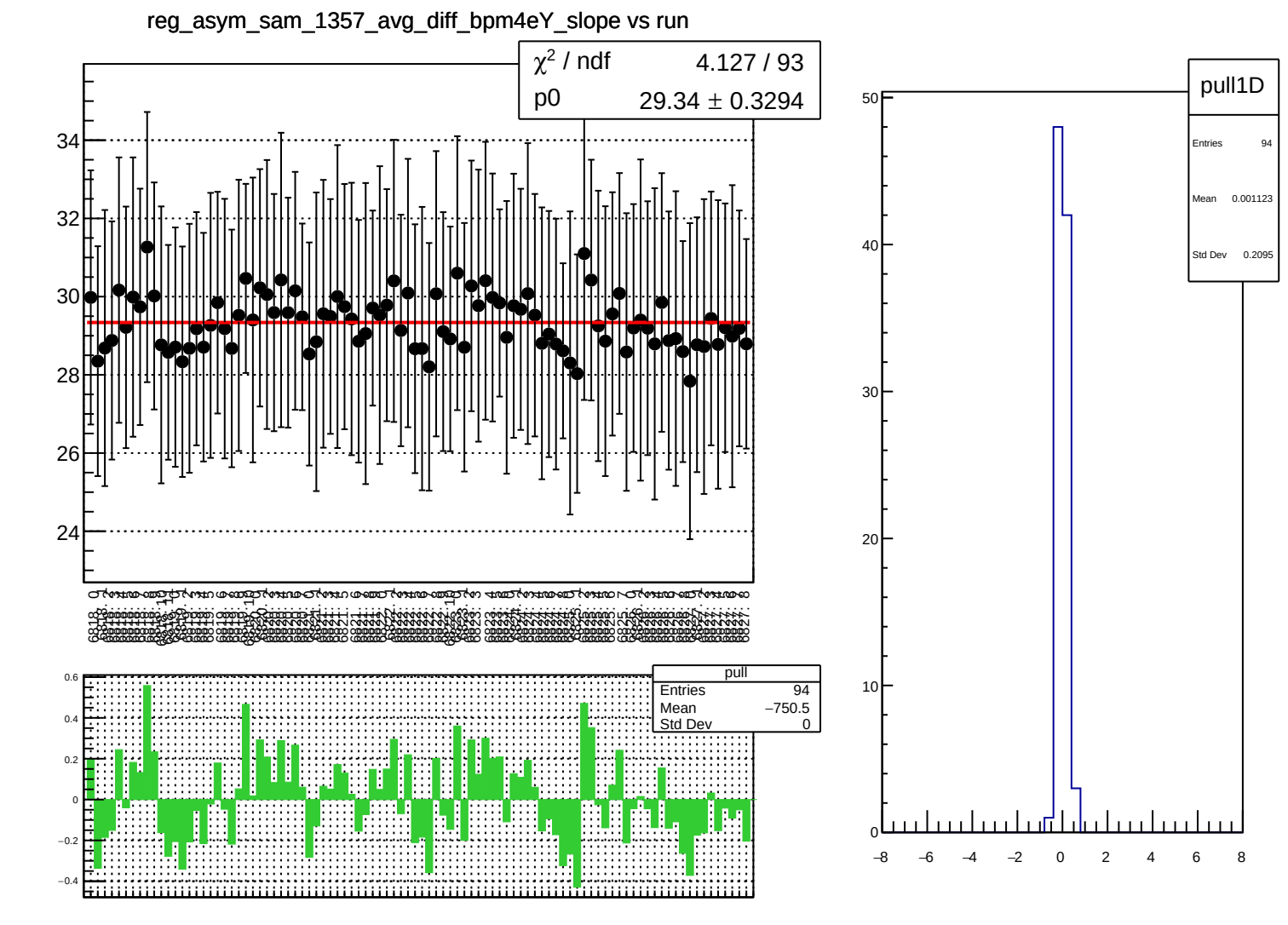

pull1D
Entries 94
Mean 0.001413
Std Dev 0.2381

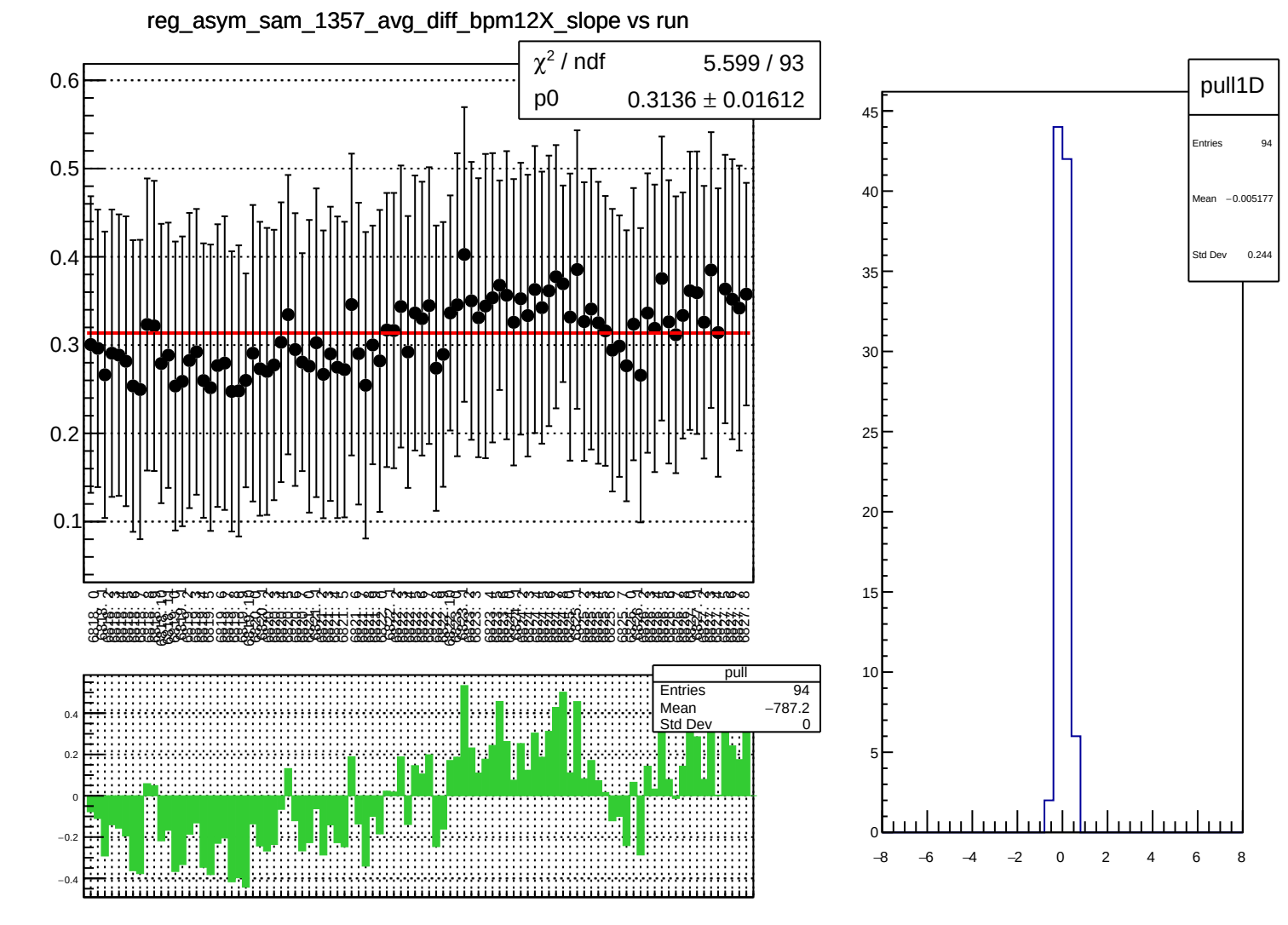

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.711 / 93
p0 1.119 ± 0.2845
pull
Entries 94
Mean 375.3
Std Dev 0

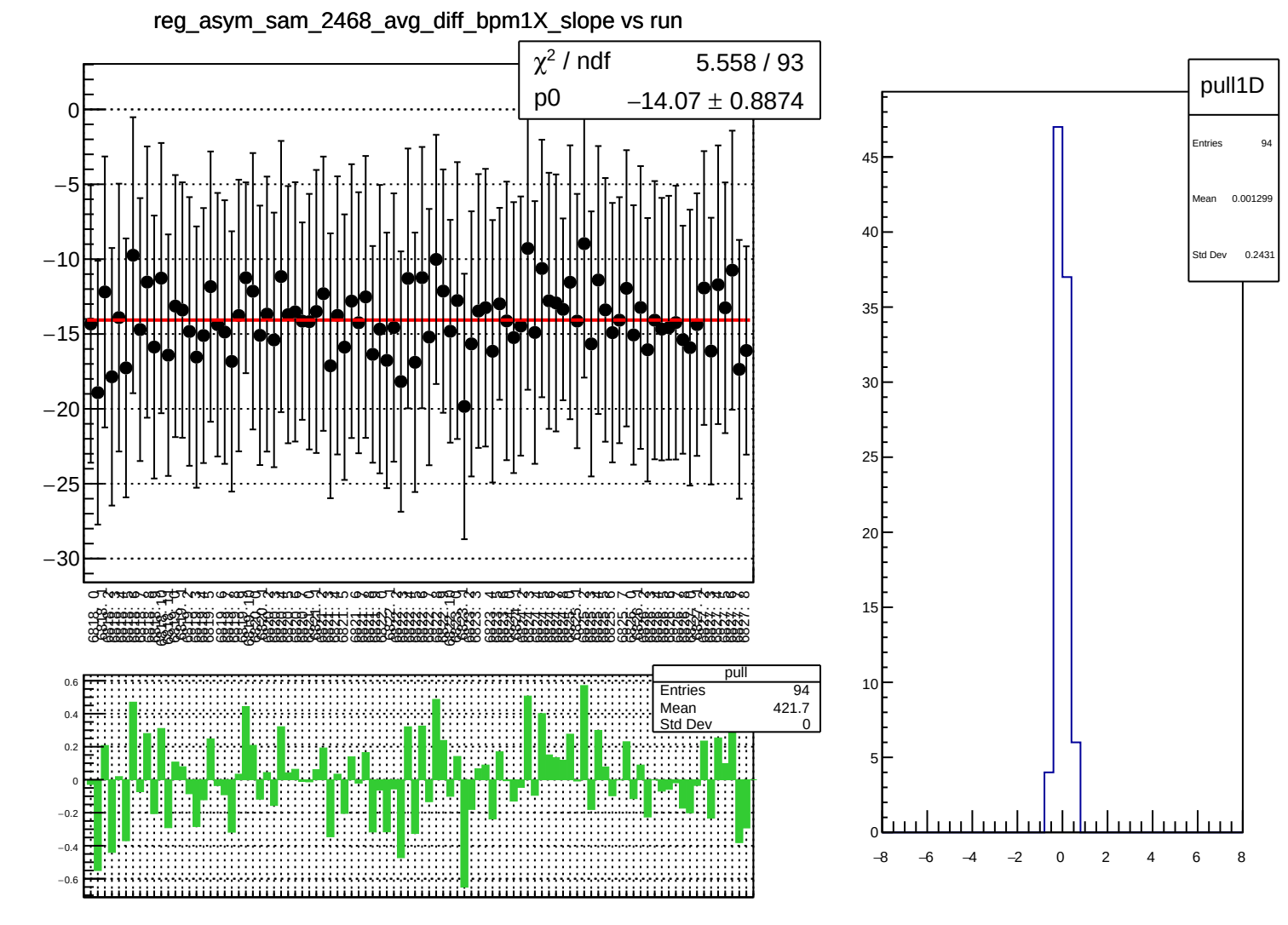

pull1D
Entries 94
Mean 0.006232
Std Dev 0.1697

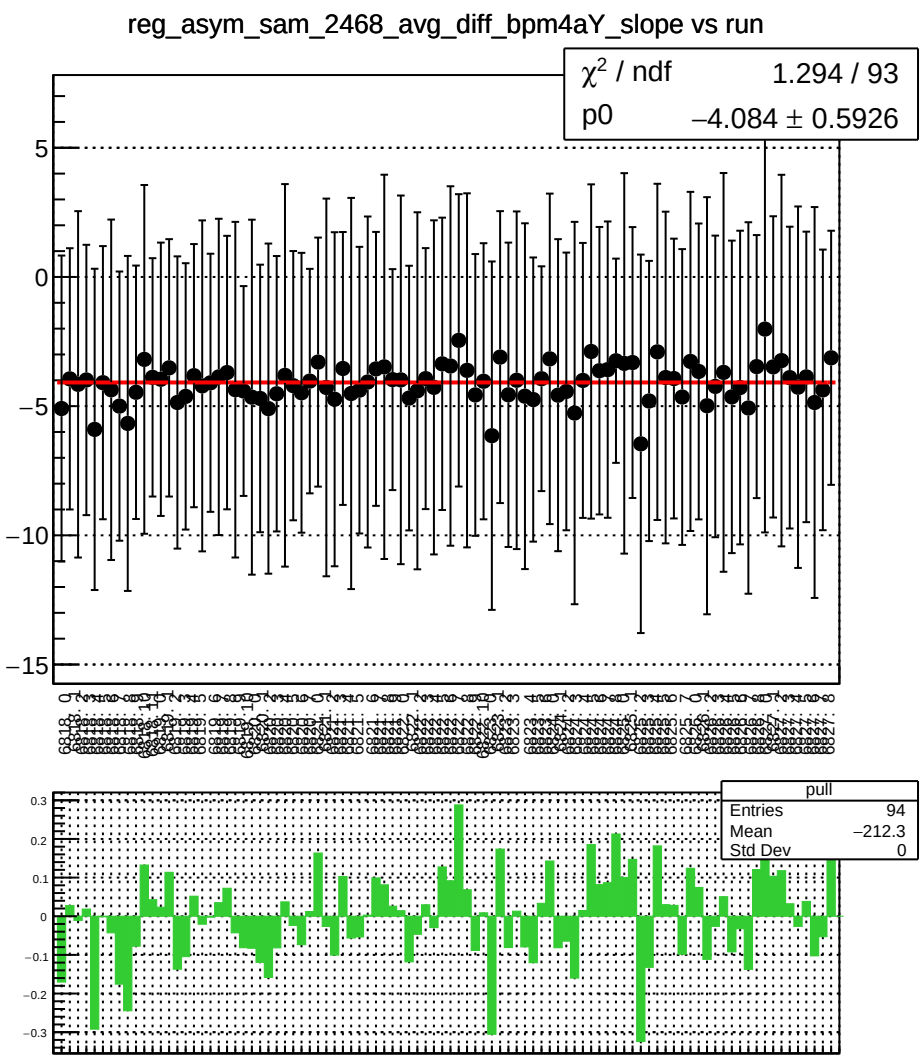

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.59 / 93
p0 −37.13 ± 0.3976
pull
Entries 94
Mean 47.89
Std Dev 0

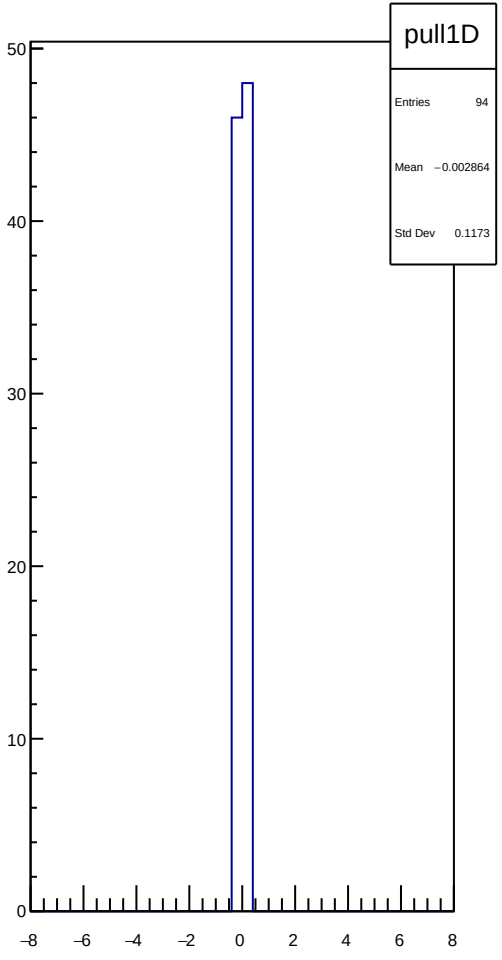

pull1D
Entries 94
Mean −0.007213
Std Dev 0.351

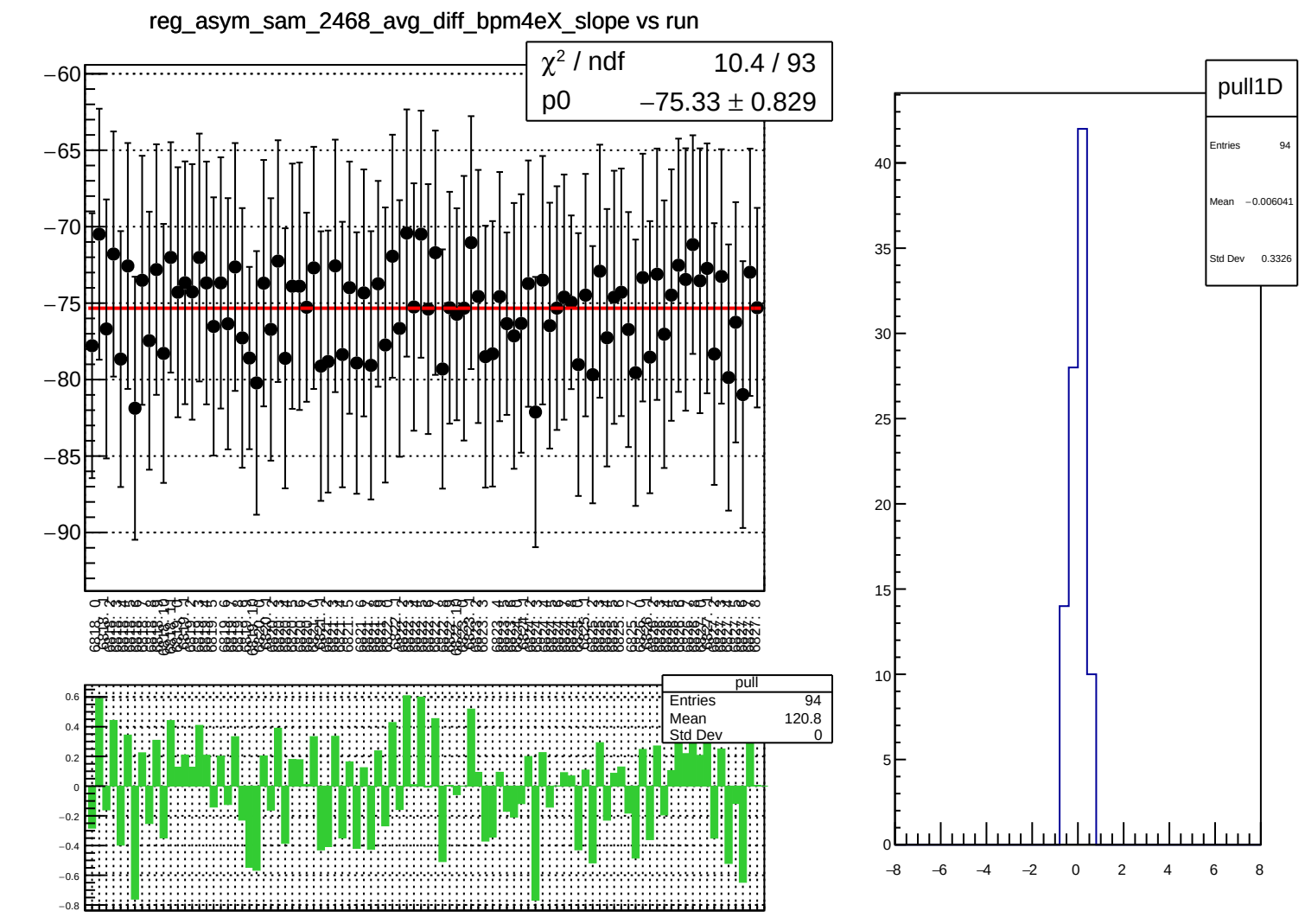

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.127 / 93
p0 29.34 ± 0.3294
pull
Entries 94
Mean −750.5
Std Dev 0
pull1D
Entries 94
Mean 0.001123
Std Dev 0.2095

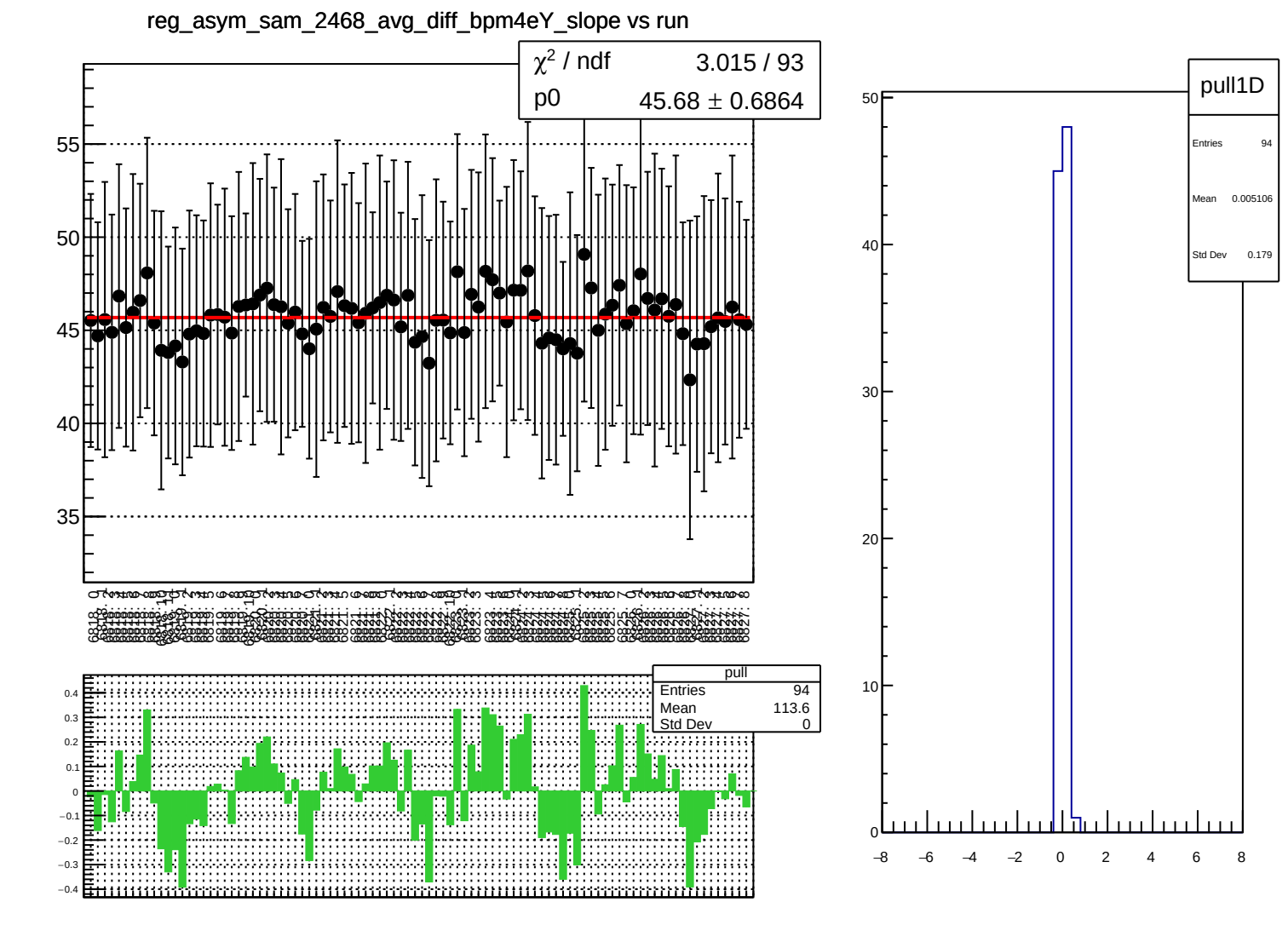

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 5.599 / 93
p0 0.3136 ± 0.01612
pull
Entries 94
Mean −787.2
Std Dev 0
pull1D
Entries 94
Mean −0.005177
Std Dev 0.244

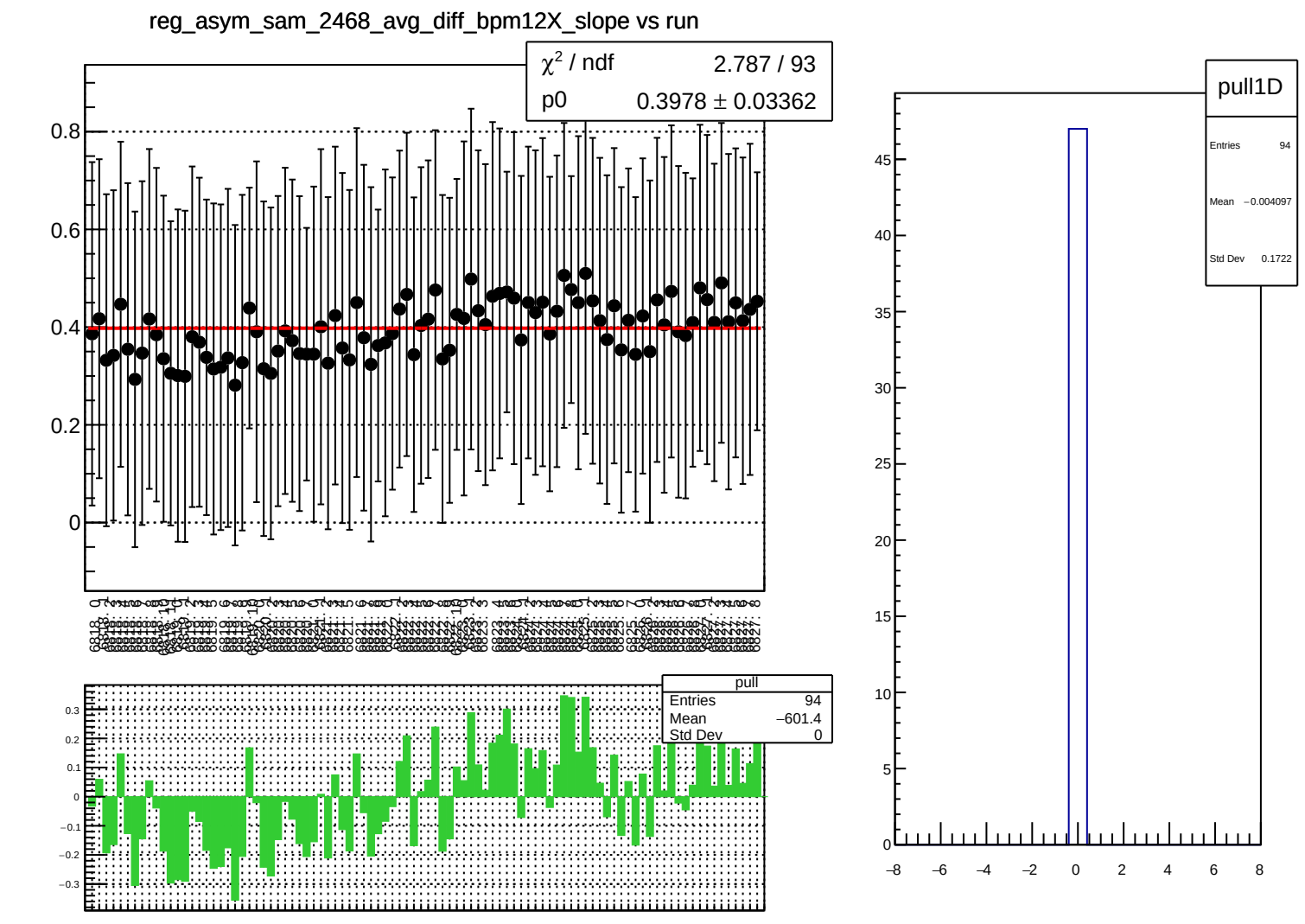

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 5.558 / 93
p0 −14.07 ± 0.8874
pull
Entries 94
Mean 421.7
Std Dev 0
pull1D
Entries 94
Mean 0.001299
Std Dev 0.2431

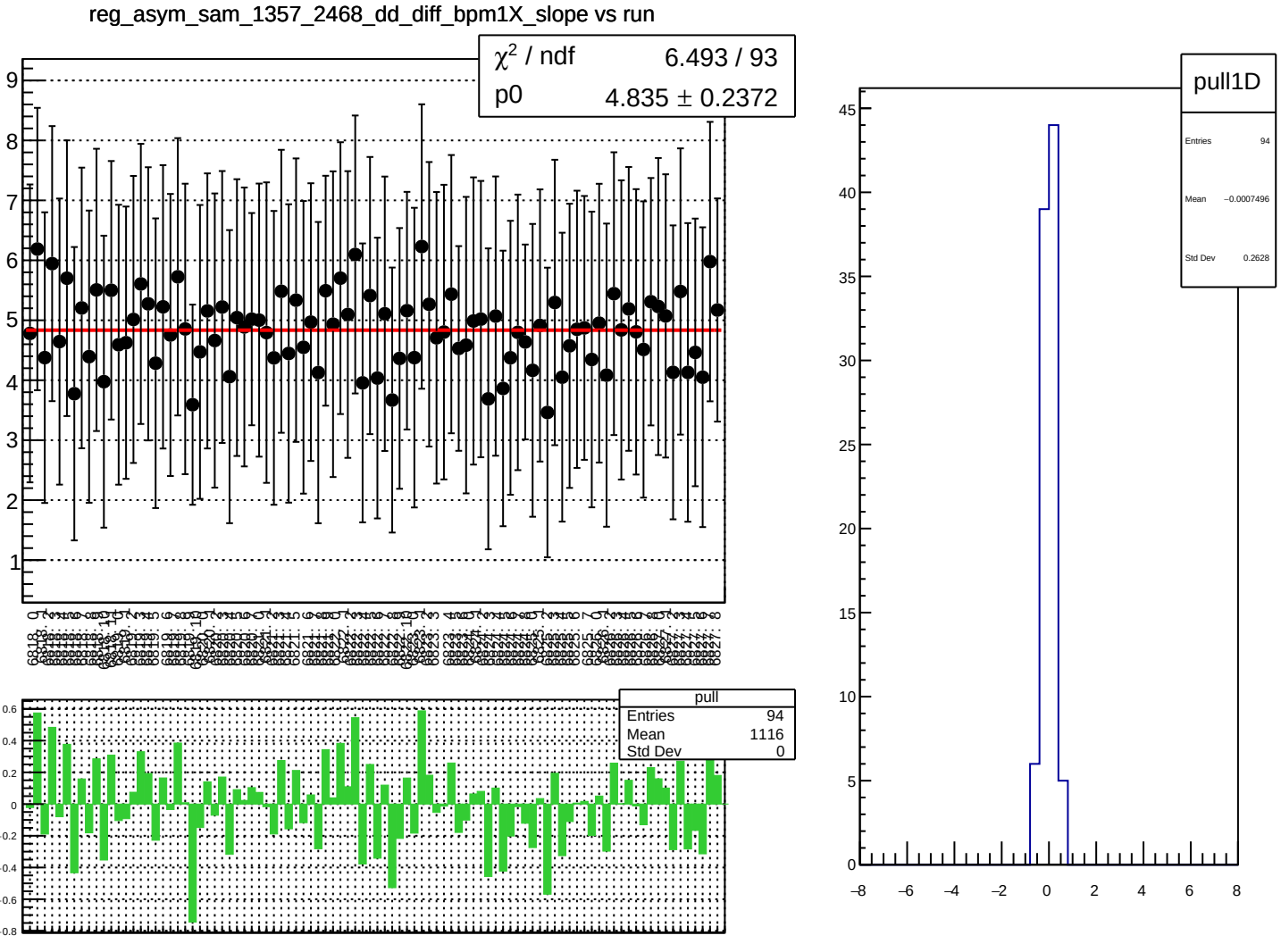

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.294 / 93
p0 −4.084 ± 0.5926
pull
Entries 94
Mean −212.3
Std Dev 0

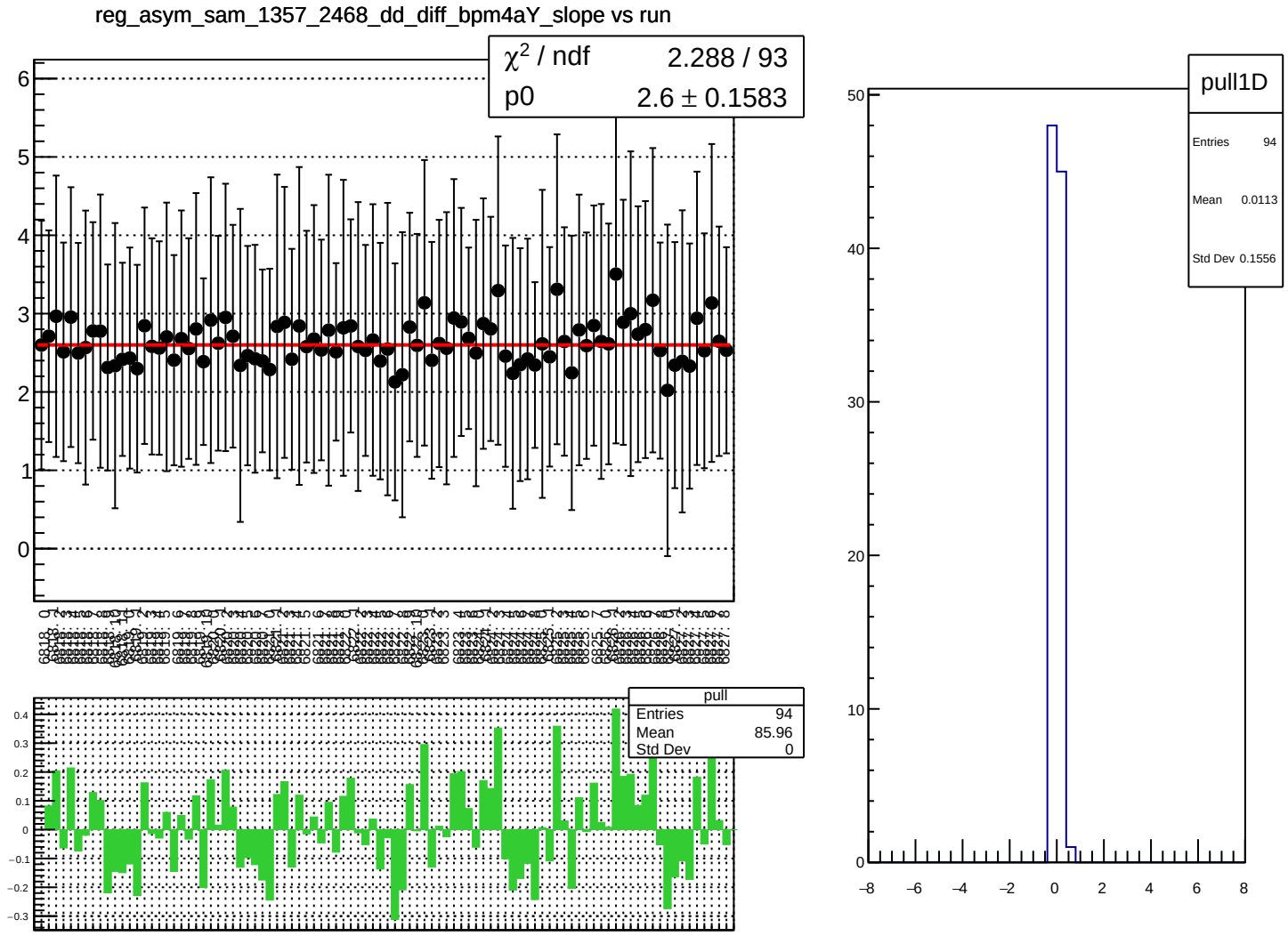

pull1D
Entries 94
Mean −0.002864
Std Dev 0.1173

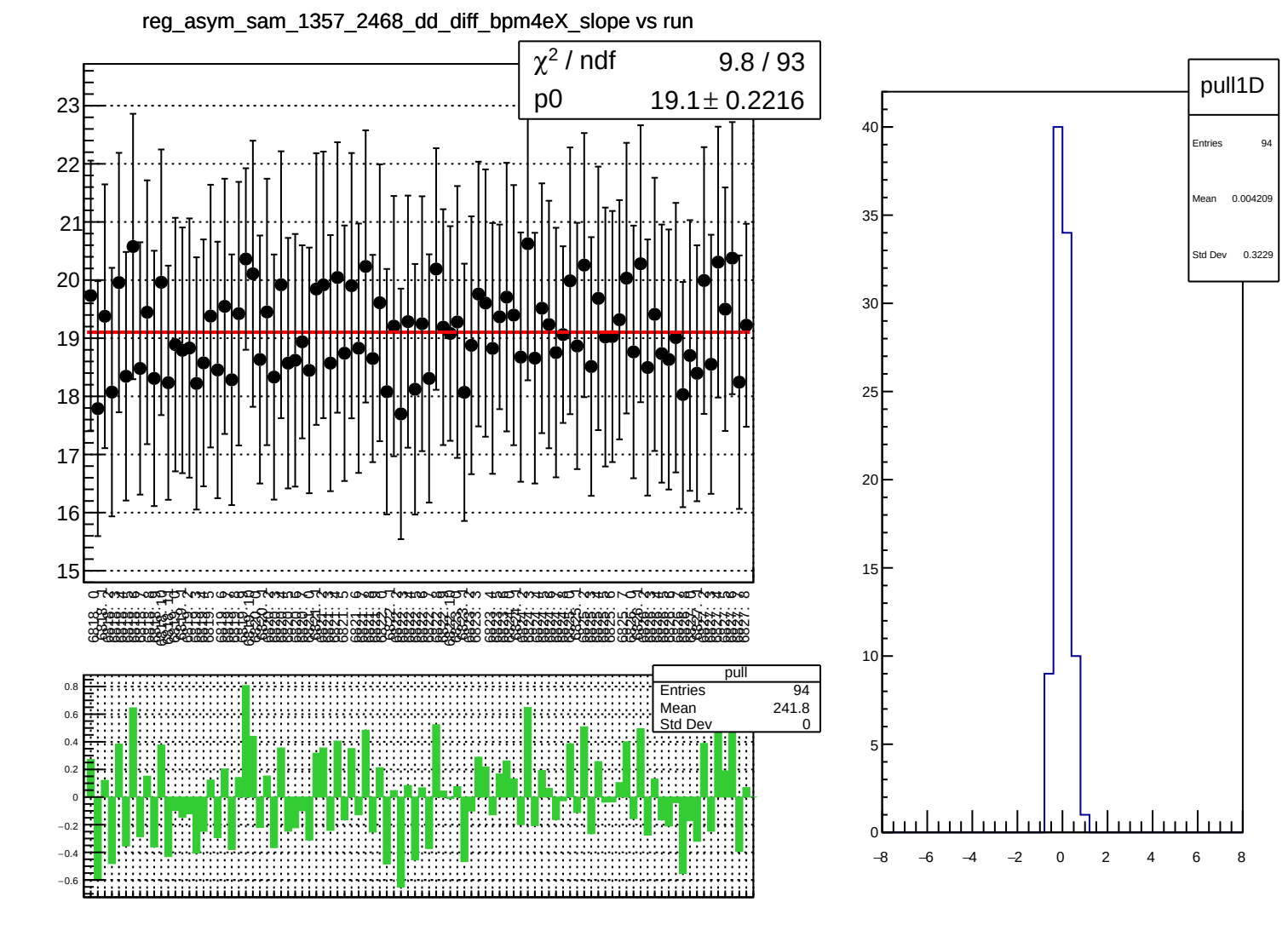

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.4 / 93
p0 −75.33 ± 0.829
pull
Entries 94
Mean 120.8
Std Dev 0
pull1D
Entries 94
Mean −0.006041
Std Dev 0.3326

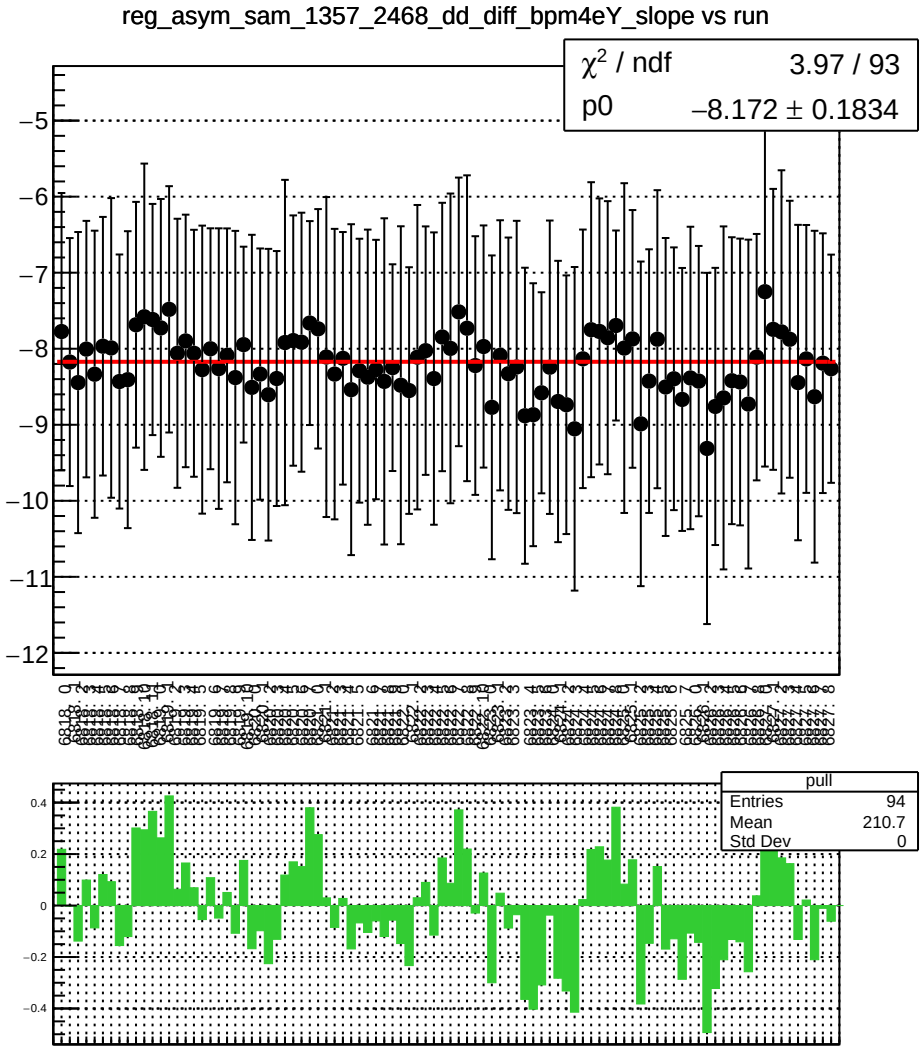

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.015 / 93
p0 45.68 ± 0.6864
pull
Entries 94
Mean 113.6
Std Dev 0
pull1D
Entries 94
Mean 0.005106
Std Dev 0.179

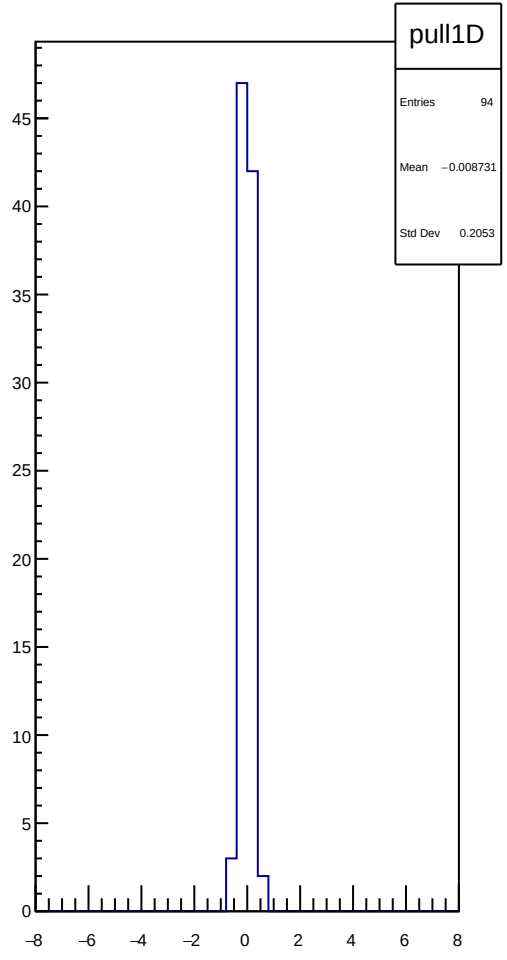

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 2.787 / 93
p0 0.3978 ± 0.03362
pull
Entries 94
Mean −601.4
Std Dev 0
pull1D
Entries 94
Mean −0.004097
Std Dev 0.1722

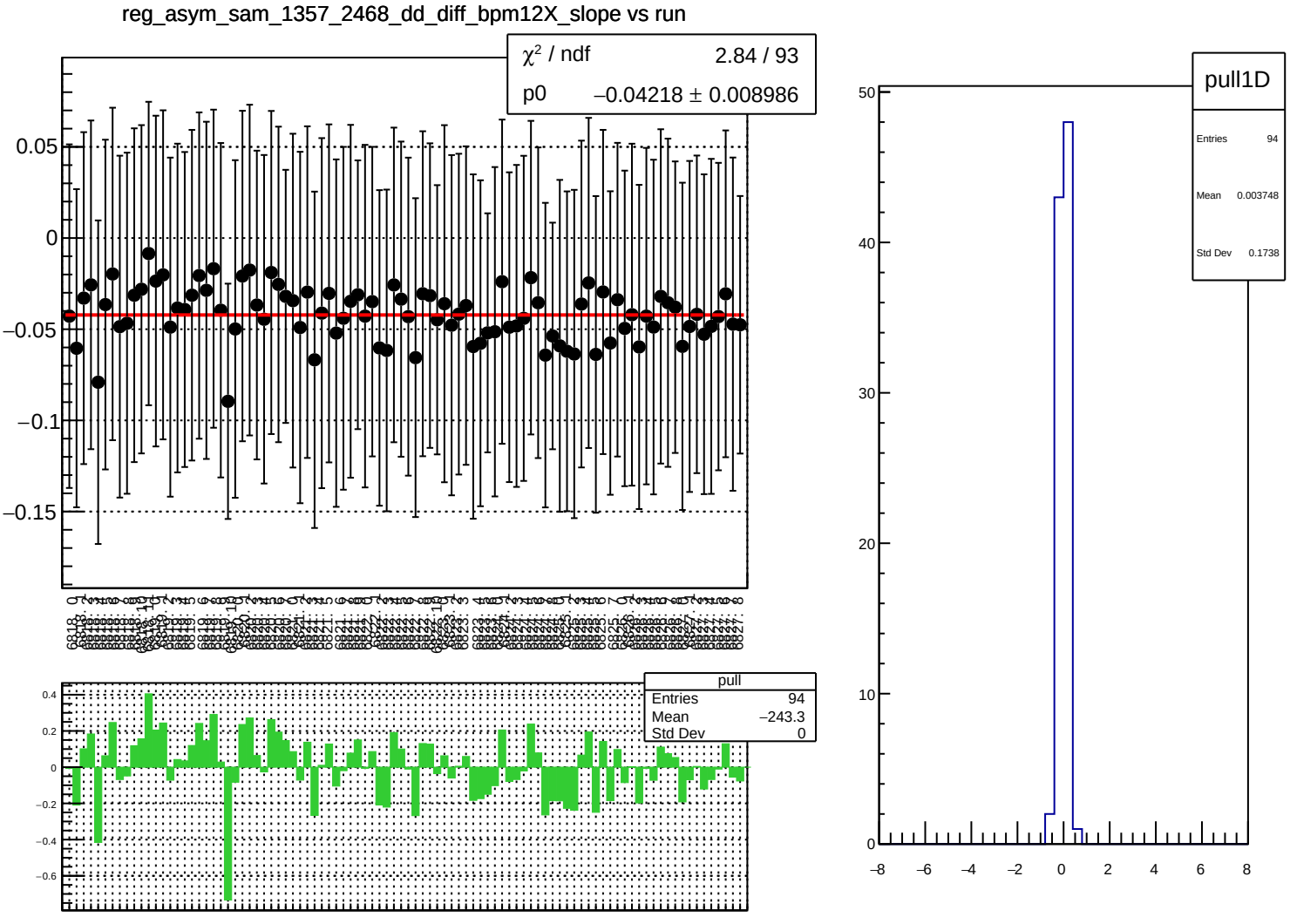

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 6.493 / 93
p0 4.835 ± 0.2372
pull
Entries 94
Mean 1116
Std Dev 0
pull1D
Entries 94
Mean −0.0007496
Std Dev 0.2628

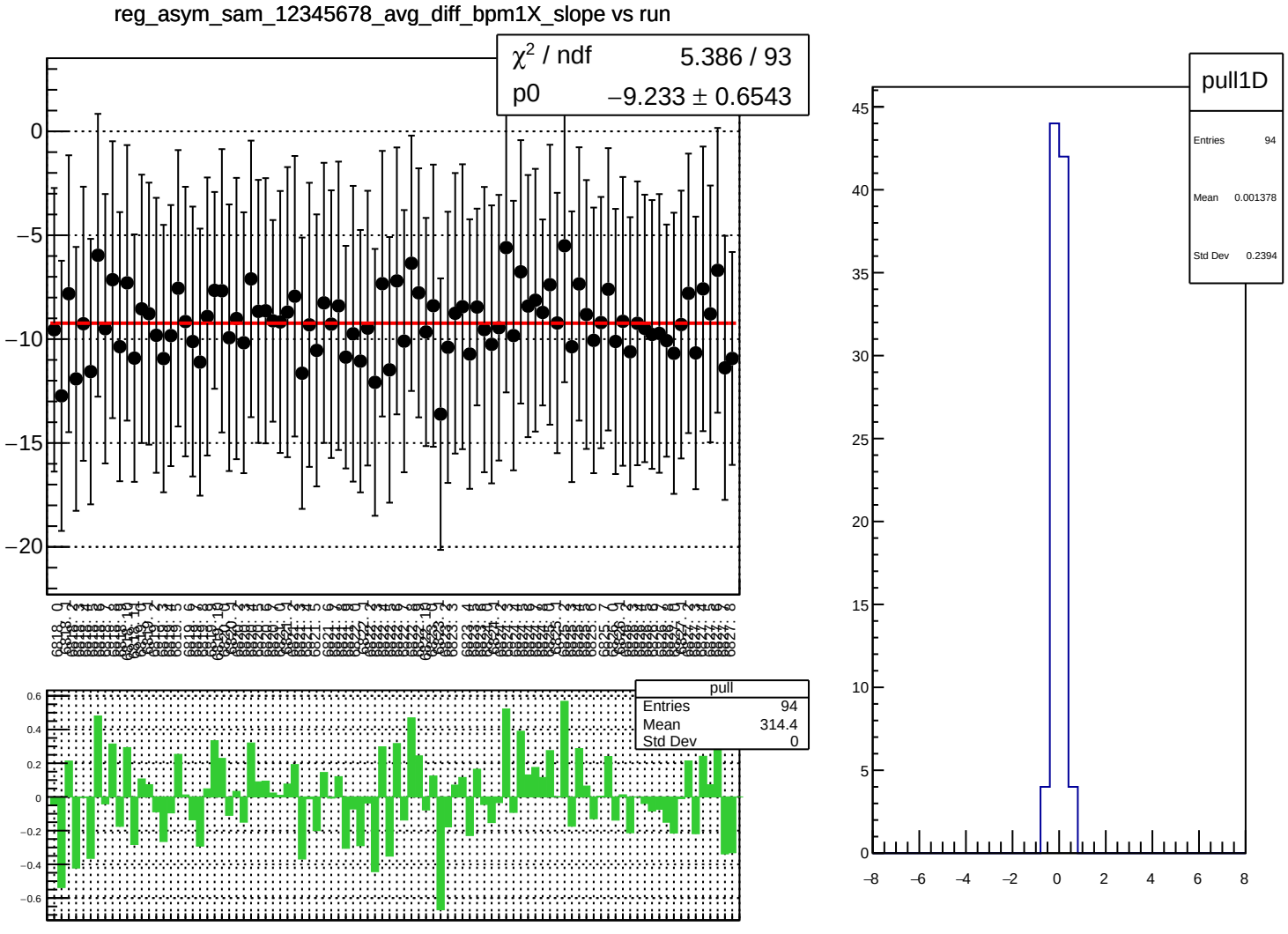

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.288 / 93
p0 2.6 ± 0.1583
pull
Entries 94
Mean 85.96
Std Dev 0
pull1D
Entries 94
Mean 0.0113
Std Dev 0.1556

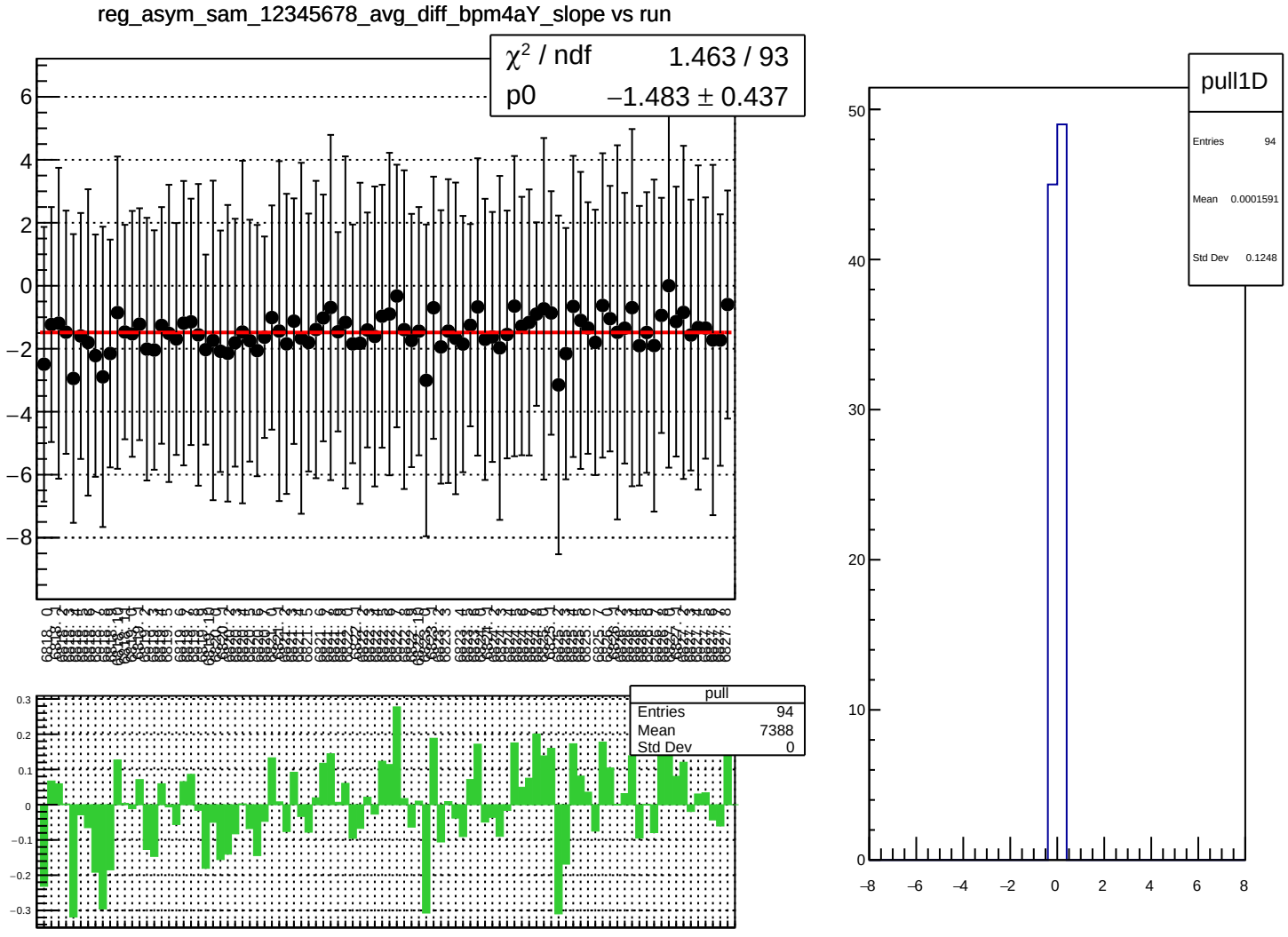

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.8 / 93
p0 19.1 ± 0.2216
pull
Entries 94
Mean 241.8
Std Dev 0
pull1D
Entries 94
Mean 0.004209
Std Dev 0.3229

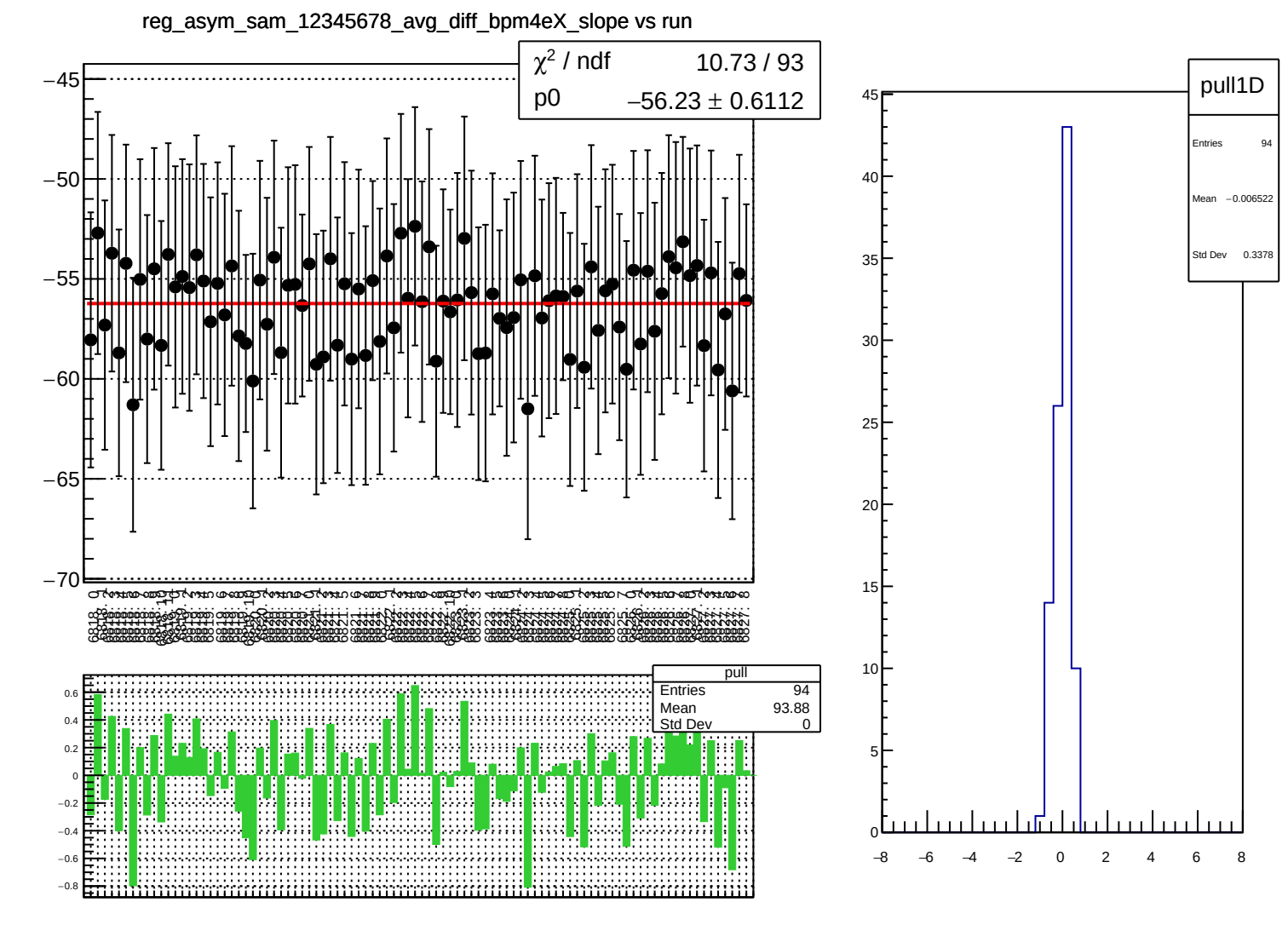

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.97 / 93
p0 −8.172 ± 0.1834
pull
Entries 94
Mean 210.7
Std Dev 0

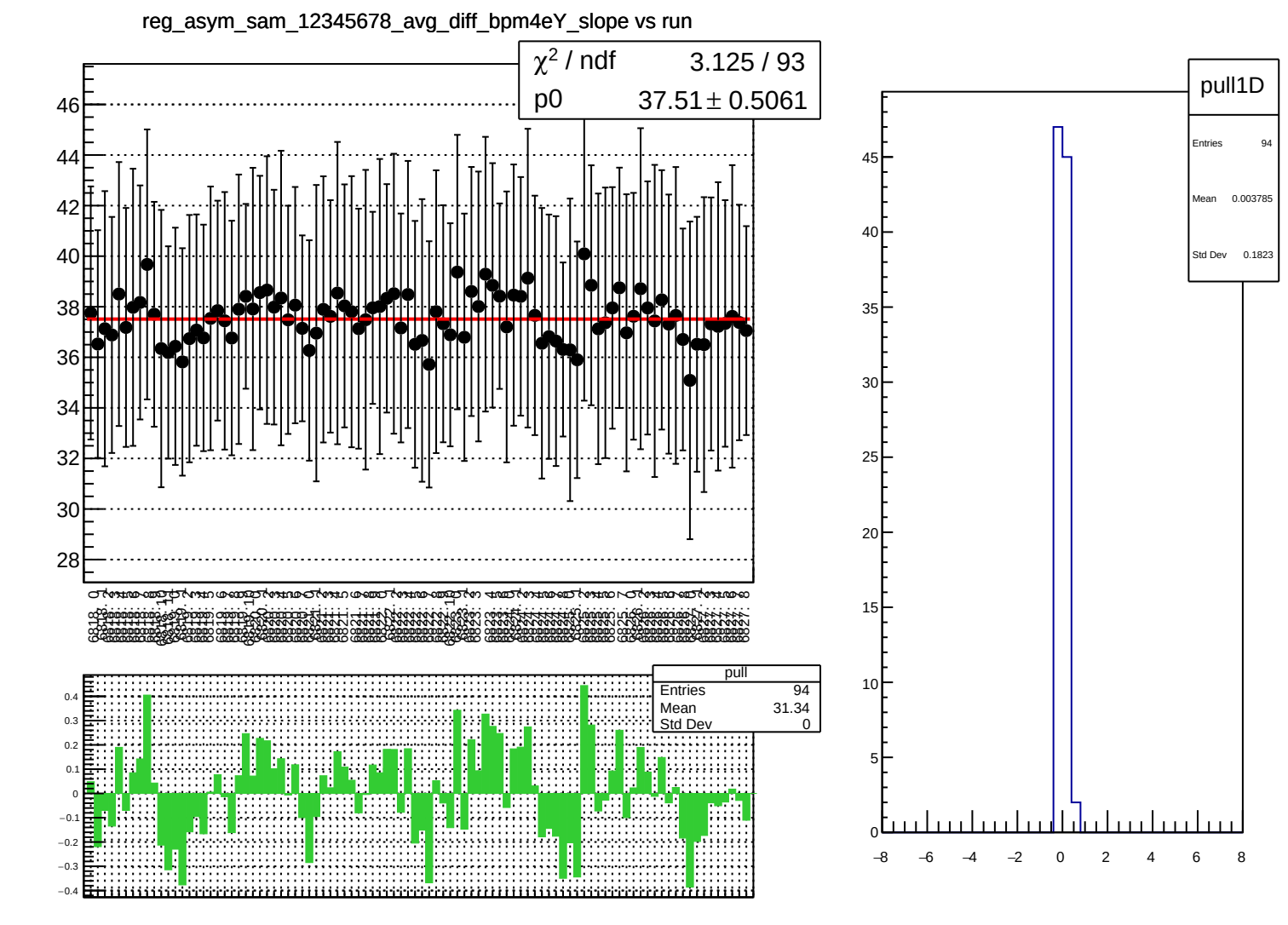

pull1D
Entries 94
Mean −0.008731
Std Dev 0.2053

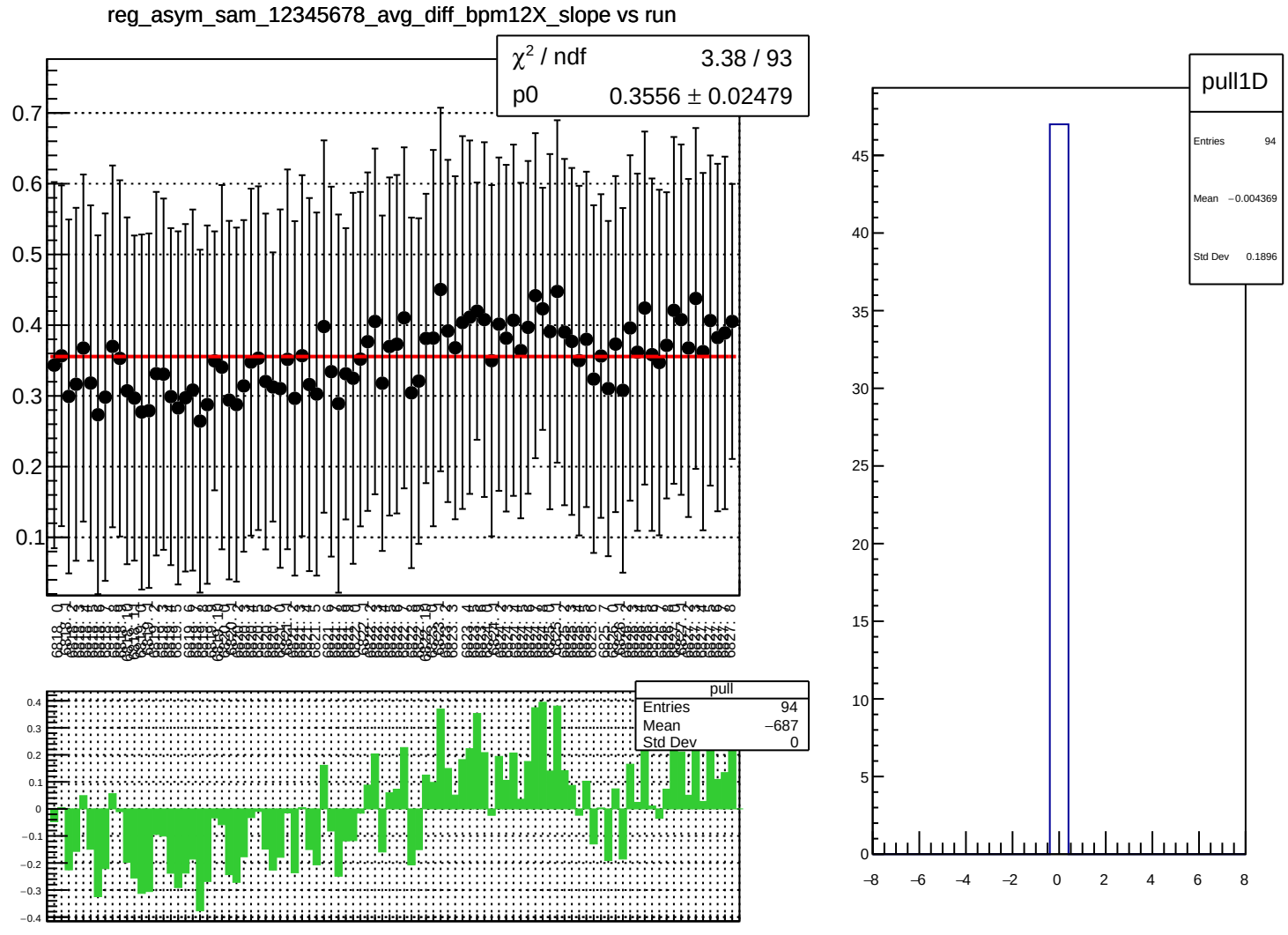

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 2.84 / 93
p0 −0.04218 ± 0.008986
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −243.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.003748
Std Dev 0.1738
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

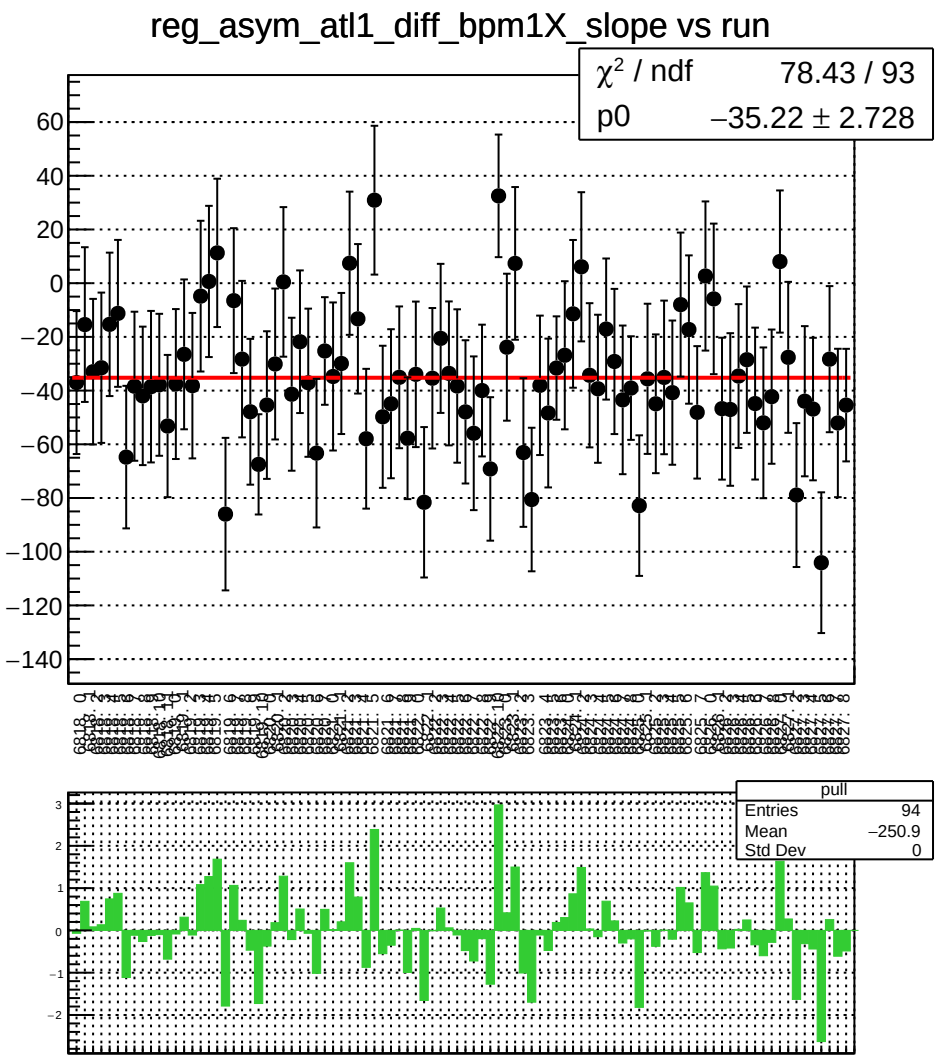

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 5.386 / 93
p0 −9.233 ± 0.6543
pull
Entries 94
Mean 314.4
Std Dev 0
pull1D
Entries 94
Mean 0.001378
Std Dev 0.2394

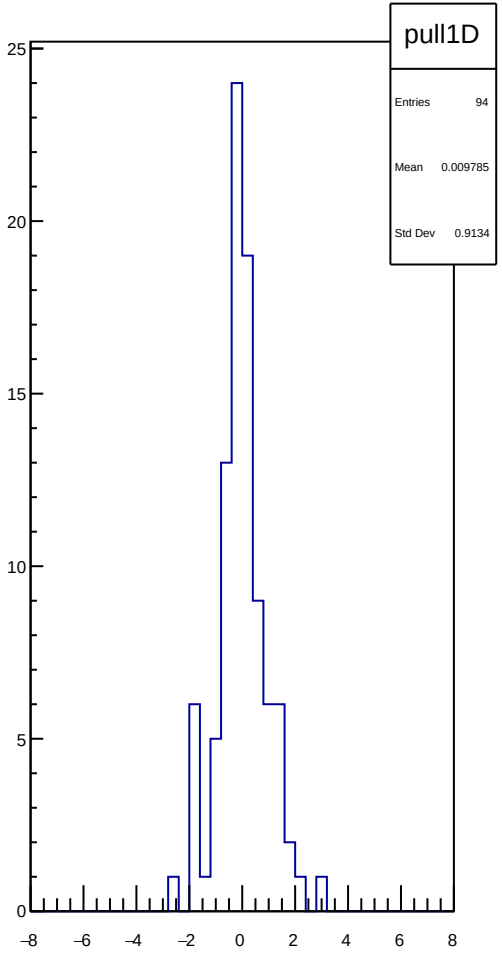

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 1.463 / 93
p0 −1.483 ± 0.437
pull
Entries 94
Mean 7388
Std Dev 0
pull1D
Entries 94
Mean 0.0001591
Std Dev 0.1248

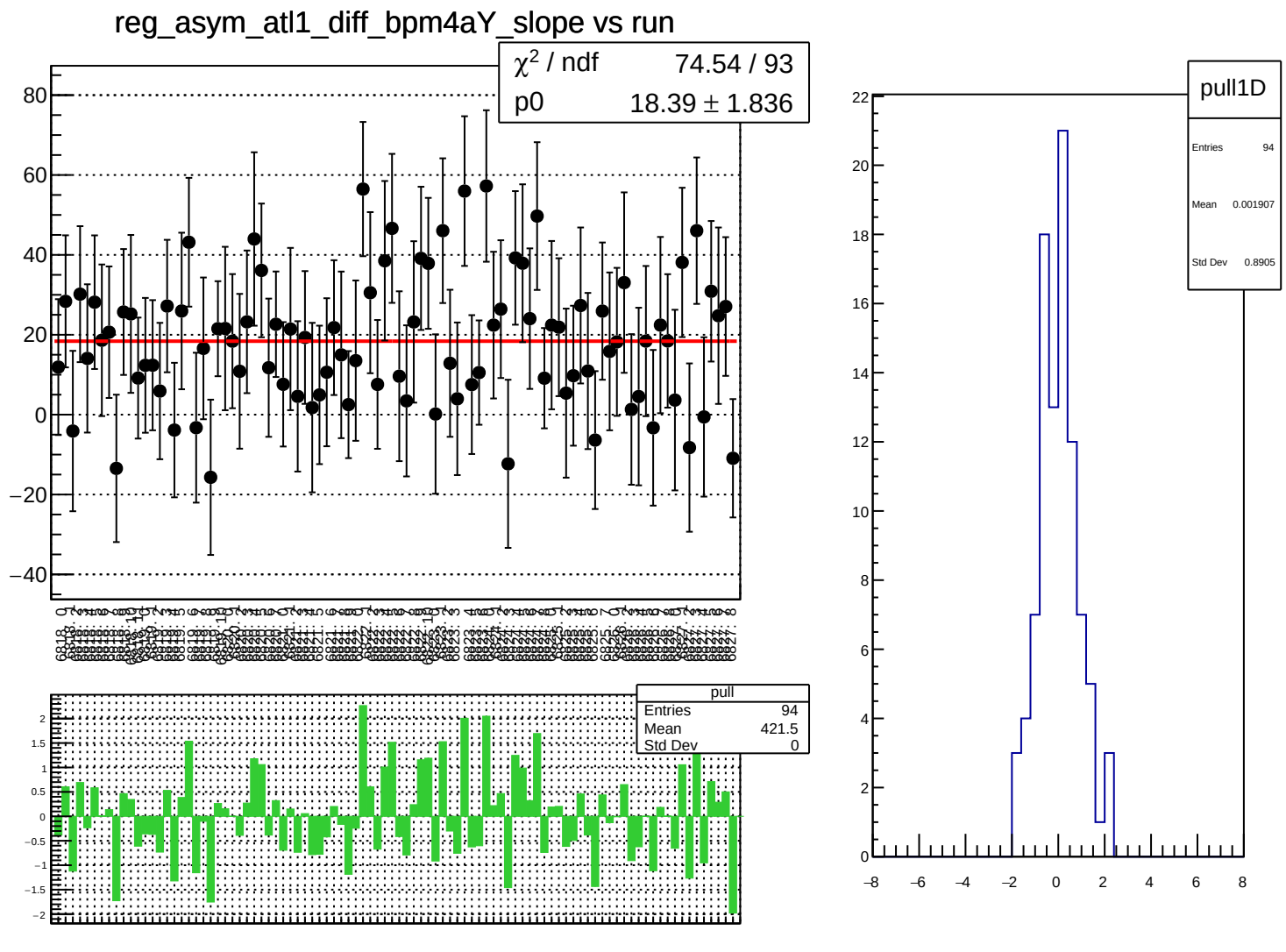

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.73 / 93
p0 −56.23 ± 0.6112
pull
Entries 94
Mean 93.88
Std Dev 0
pull1D
Entries 94
Mean −0.006522
Std Dev 0.3378

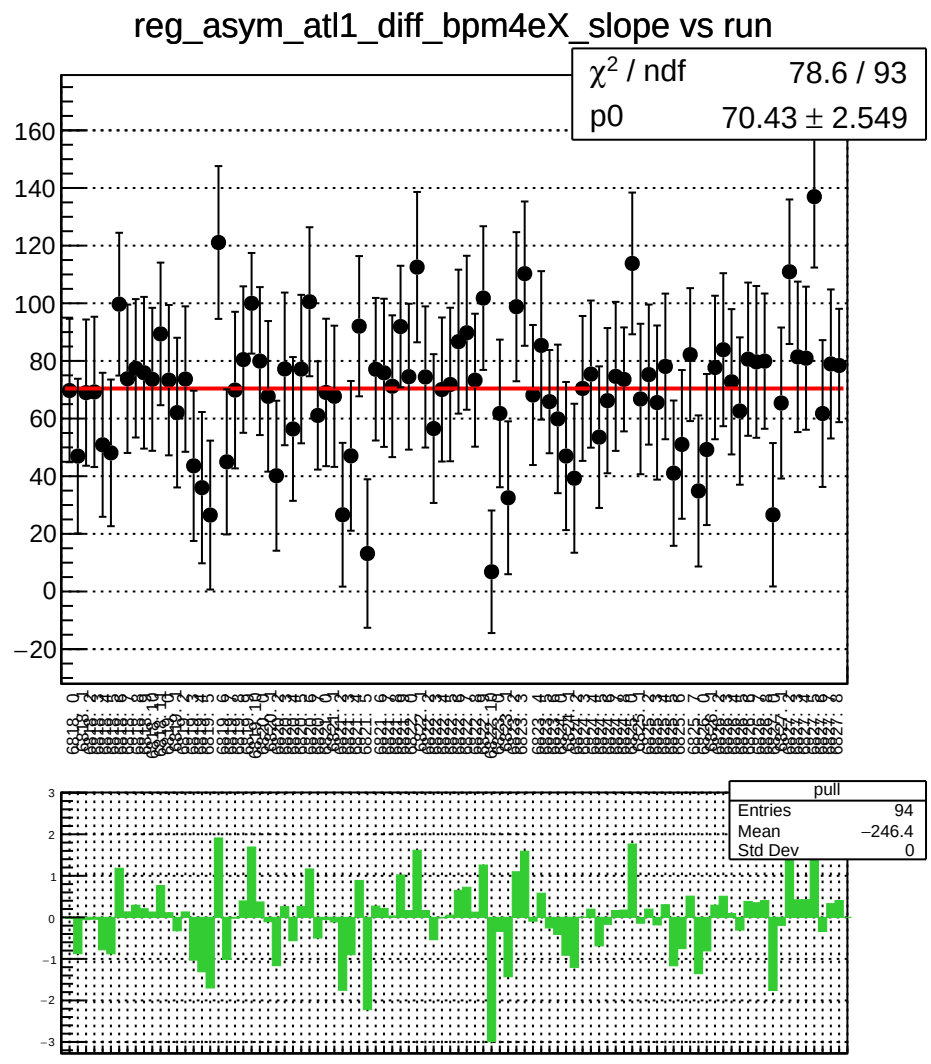

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.125 / 93
p0 37.51 ± 0.5061
pull
Entries 94
Mean 31.34
Std Dev 0
pull1D
Entries 94
Mean 0.003785
Std Dev 0.1823

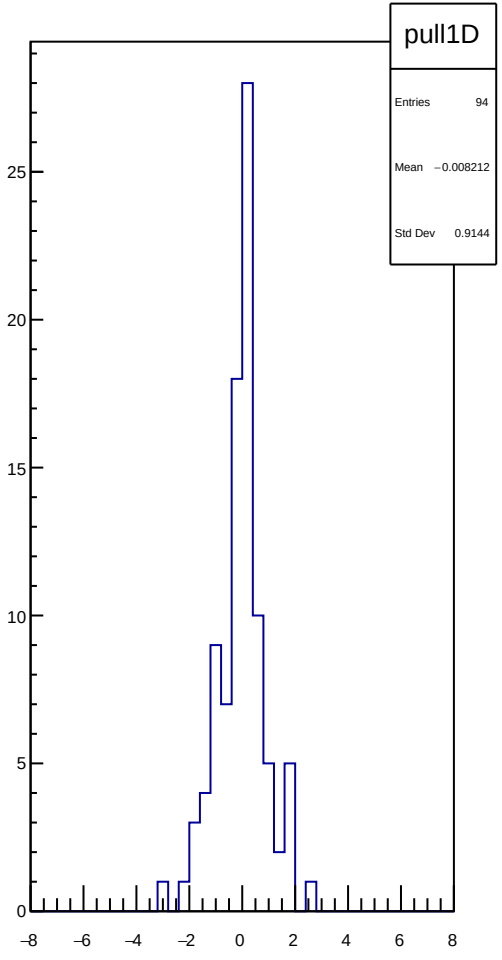

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.38 / 93
p0 0.3556 ± 0.02479
pull
Entries 94
Mean −687
Std Dev 0
pull1D
Entries 94
Mean −0.004369
Std Dev 0.1896

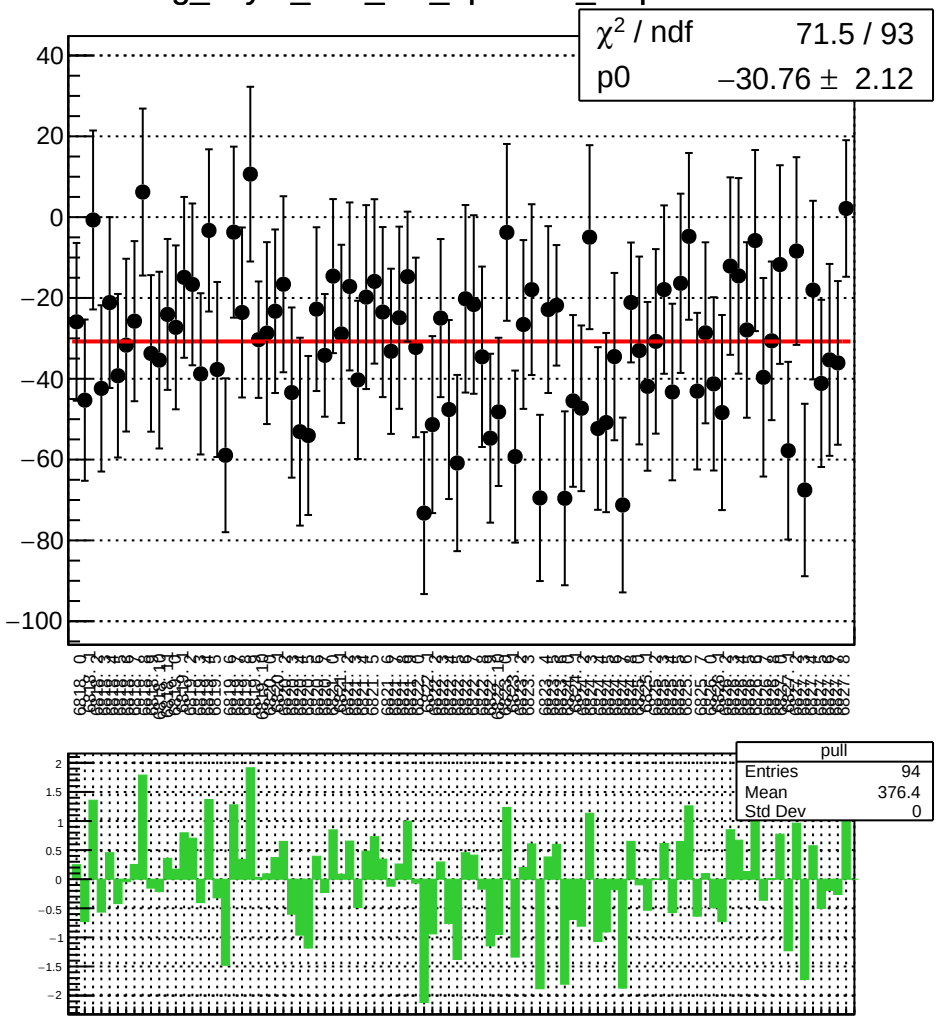

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 78.43 / 93
p0 −35.22 ± 2.728
pull
Entries 94
Mean −250.9
Std Dev 0

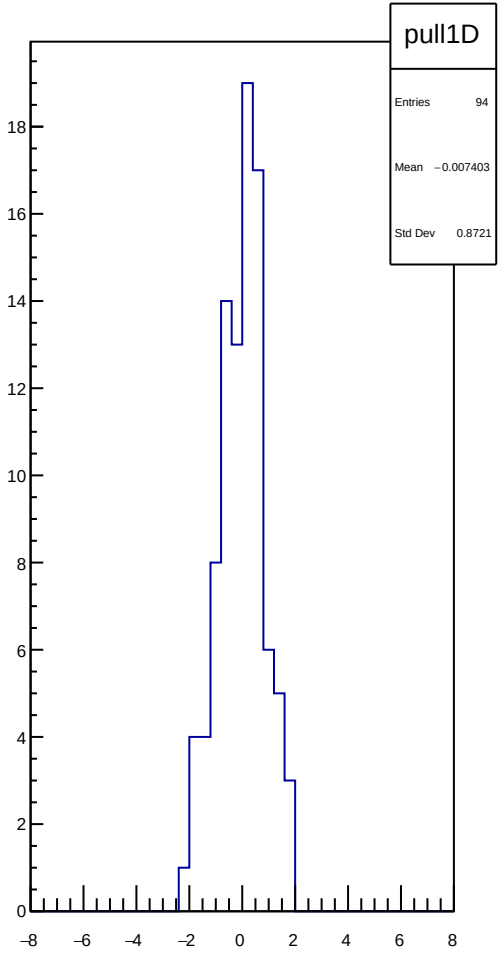

pull1D
Entries 94
Mean 0.009785
Std Dev 0.9134

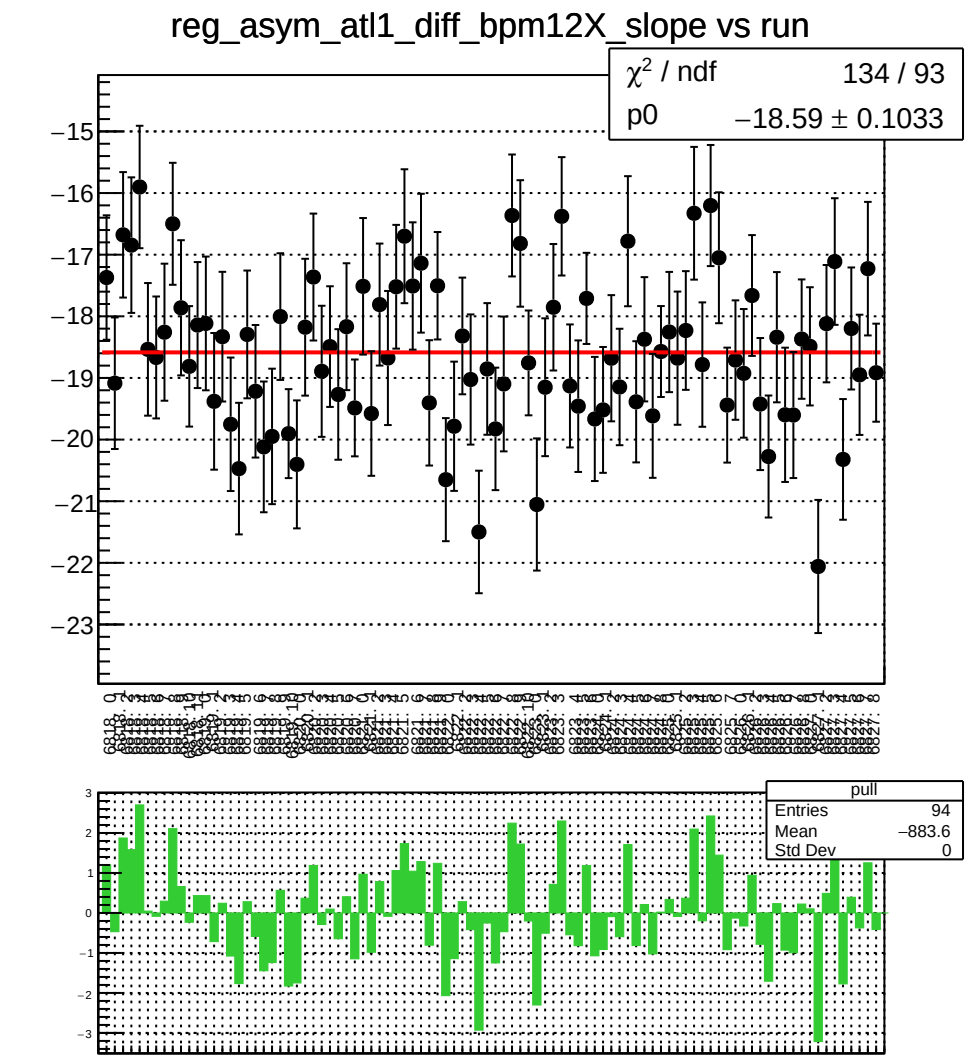

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 74.54 / 93
p0 18.39 ± 1.836
pull
Entries 94
Mean 421.5
Std Dev 0
pull1D
Entries 94
Mean 0.001907
Std Dev 0.8905

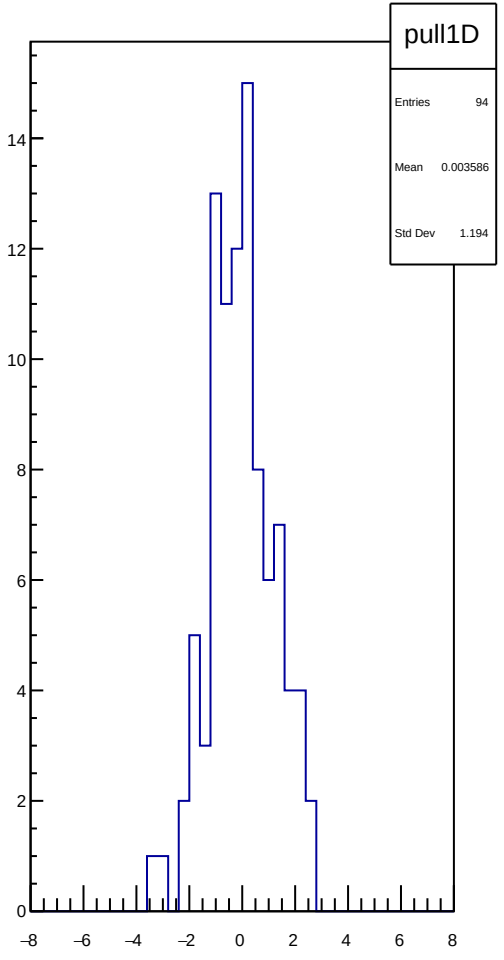

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 78.6 / 93
p0 70.43 ± 2.549
pull
Entries 94
Mean −246.4
Std Dev 0

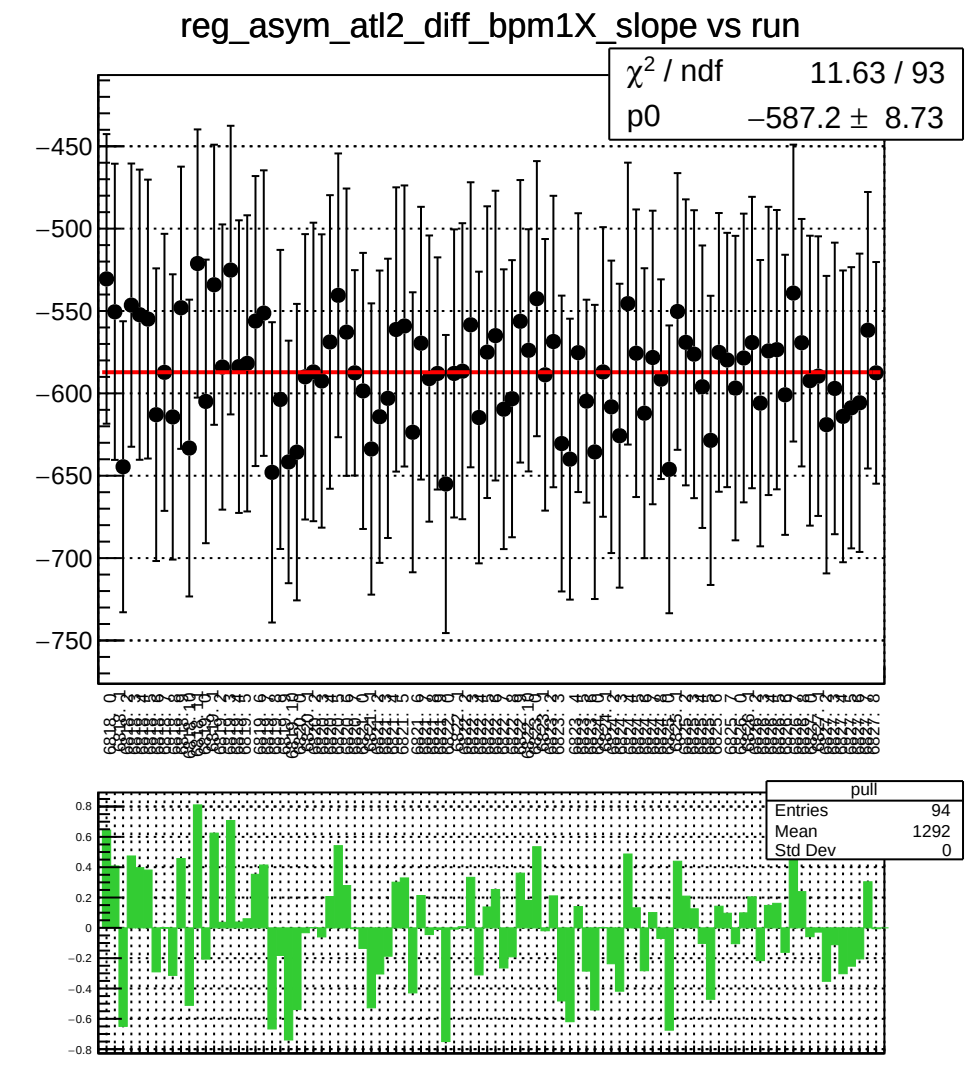

pull1D
Entries 94
Mean −0.008212
Std Dev 0.9144

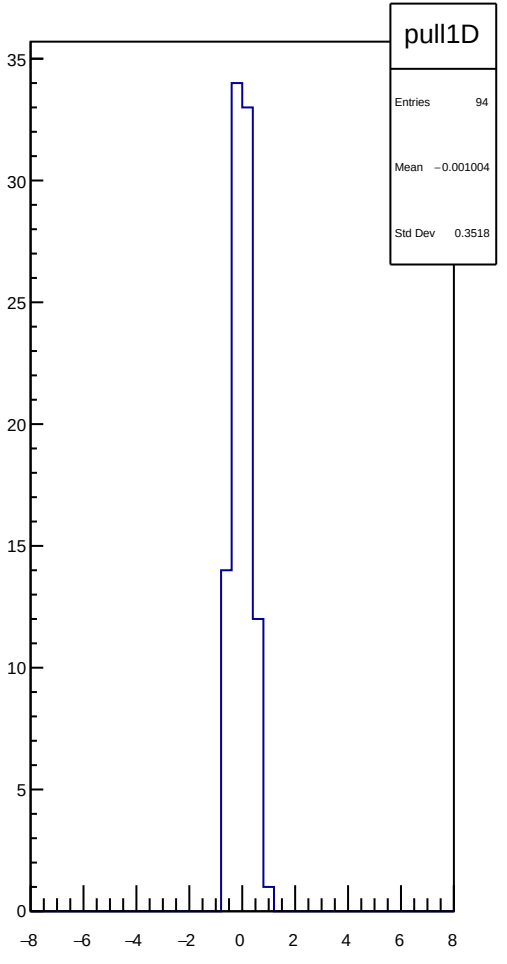

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 71.5 / 93
p0 −30.76 ± 2.12
pull
Entries 94
Mean 376.4
Std Dev 0

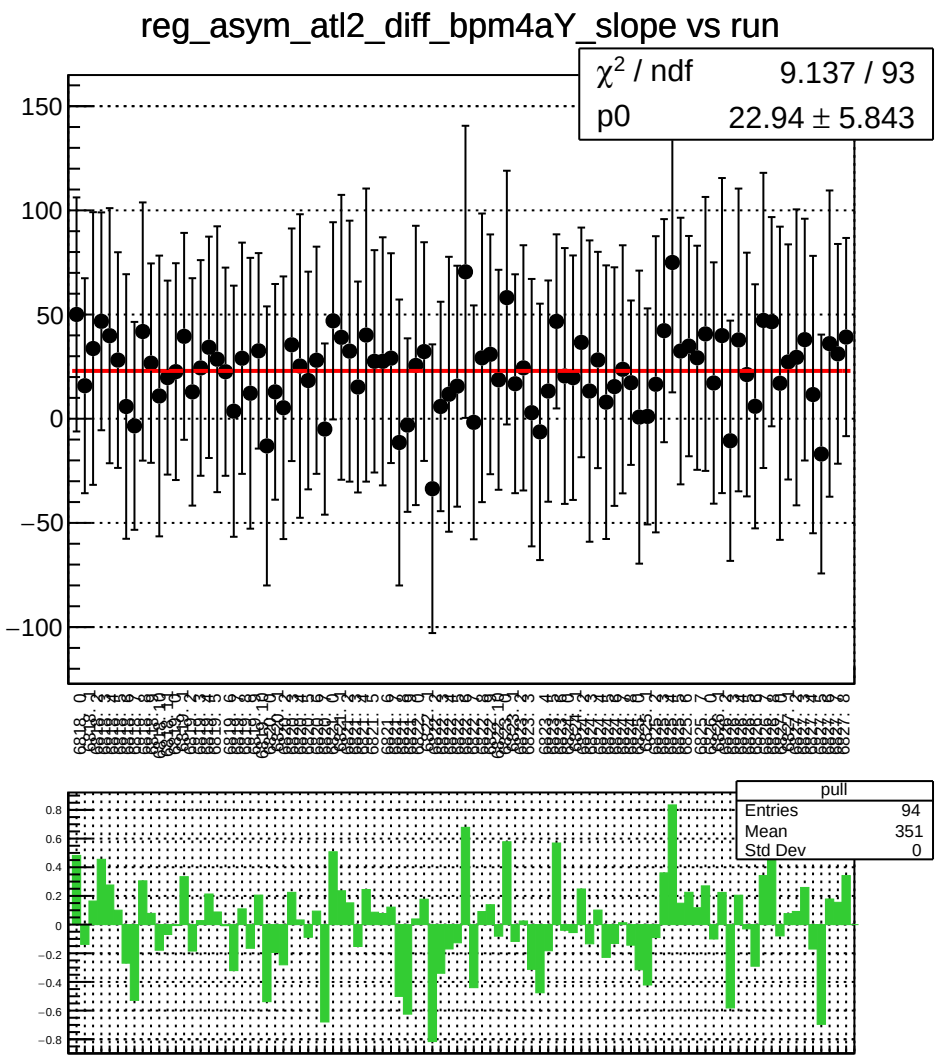

pull1D
Entries 94
Mean −0.007403
Std Dev 0.8721

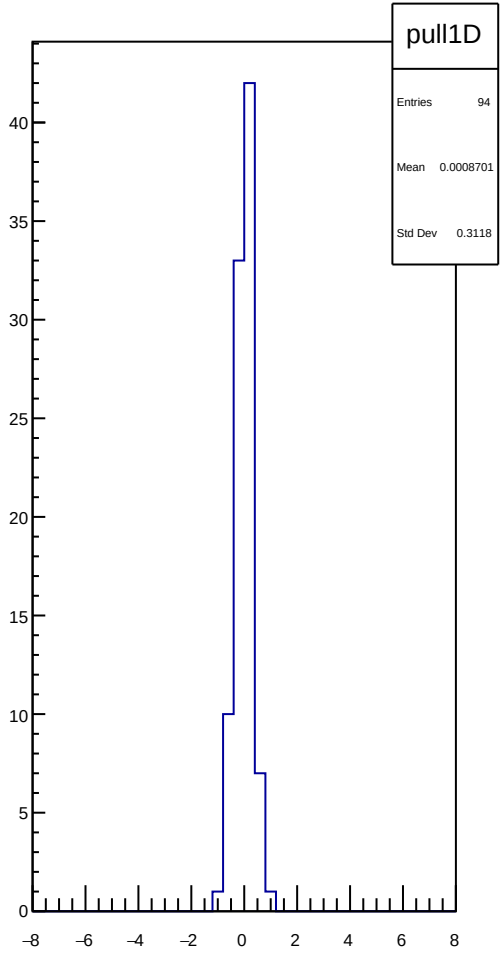

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 134 / 93
p0 −18.59 ± 0.1033
pull
Entries 94
Mean −883.6
Std Dev 0

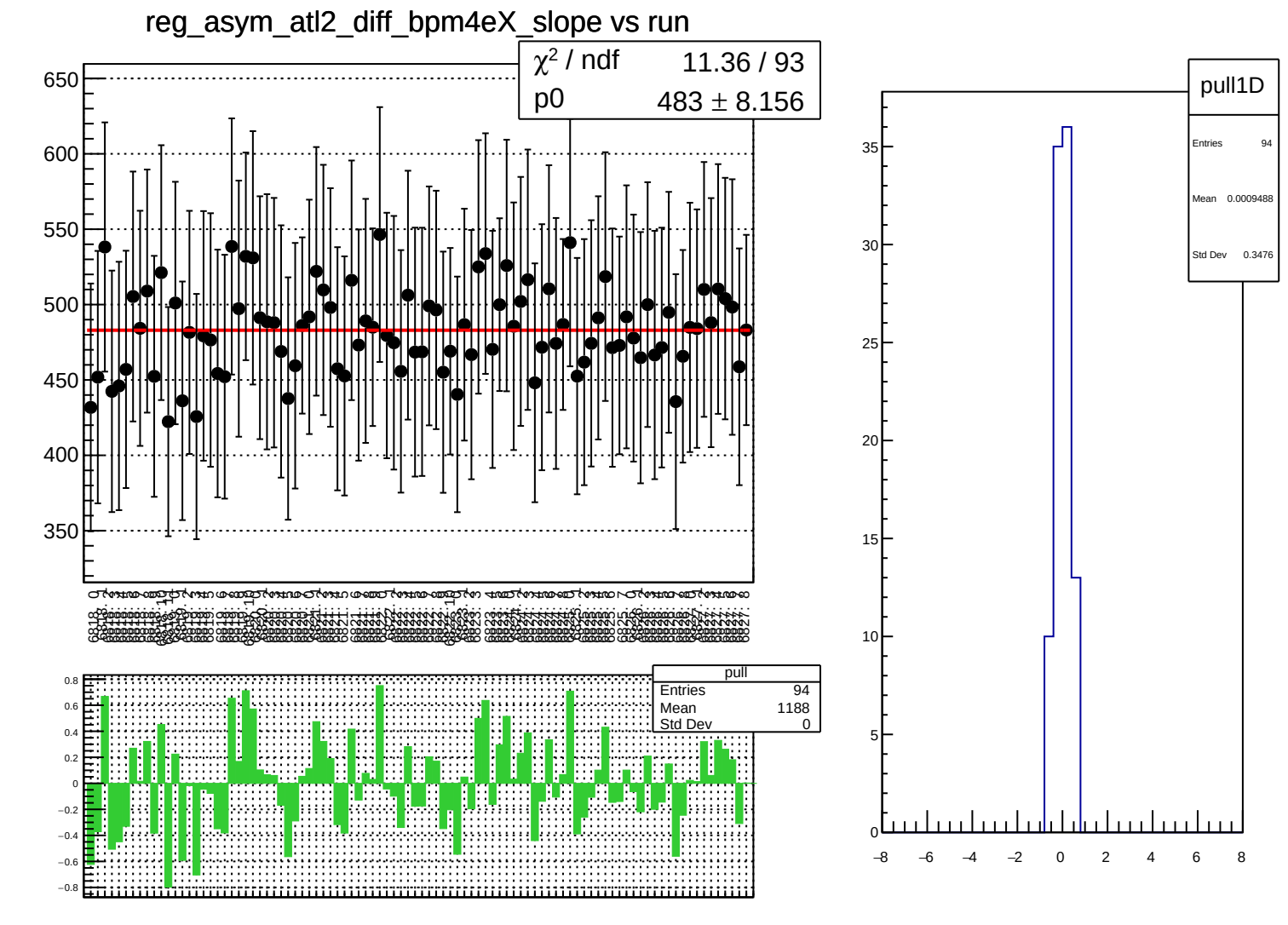

pull1D
Entries 94
Mean 0.003586
Std Dev 1.194

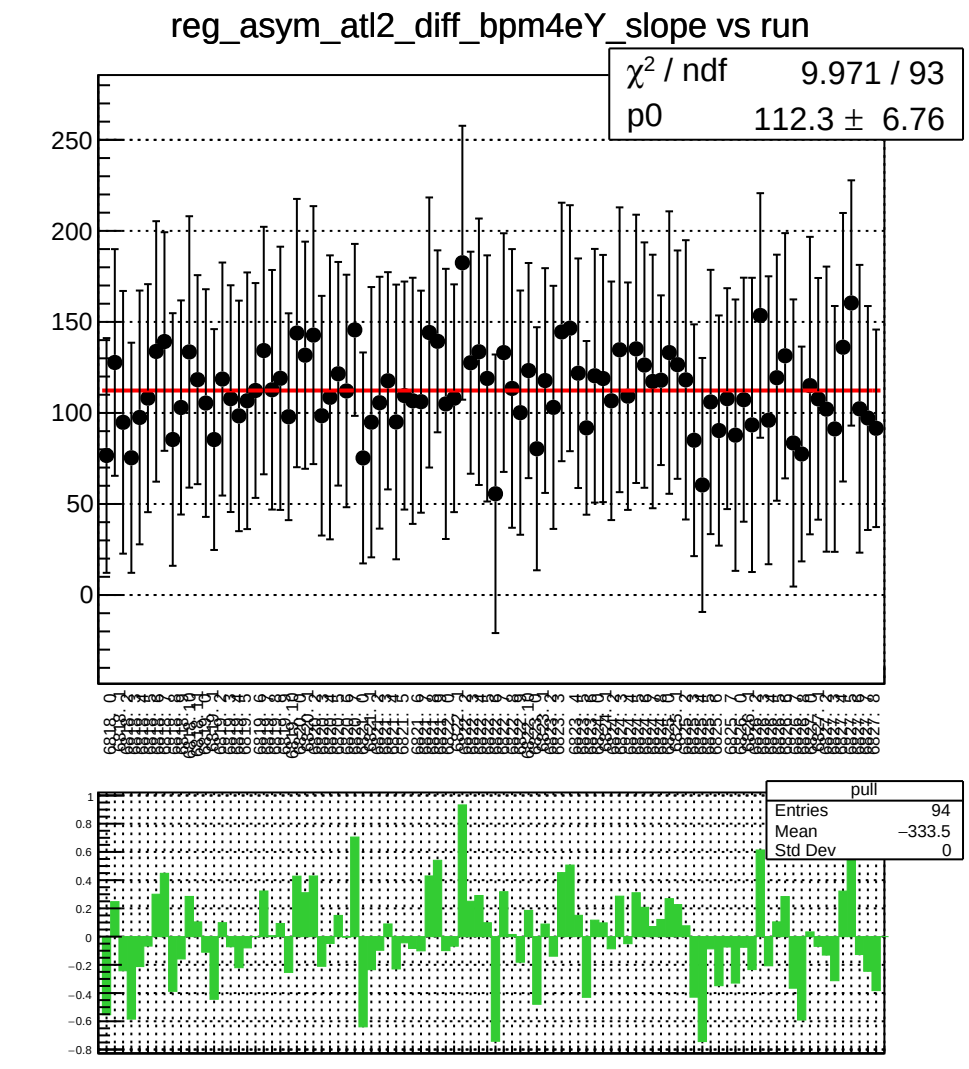

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 11.63 / 93
p0 −587.2 ± 8.73
−450
−500
−550
−600
−650
−700
−750
pull
Entries 94
Mean 1292
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

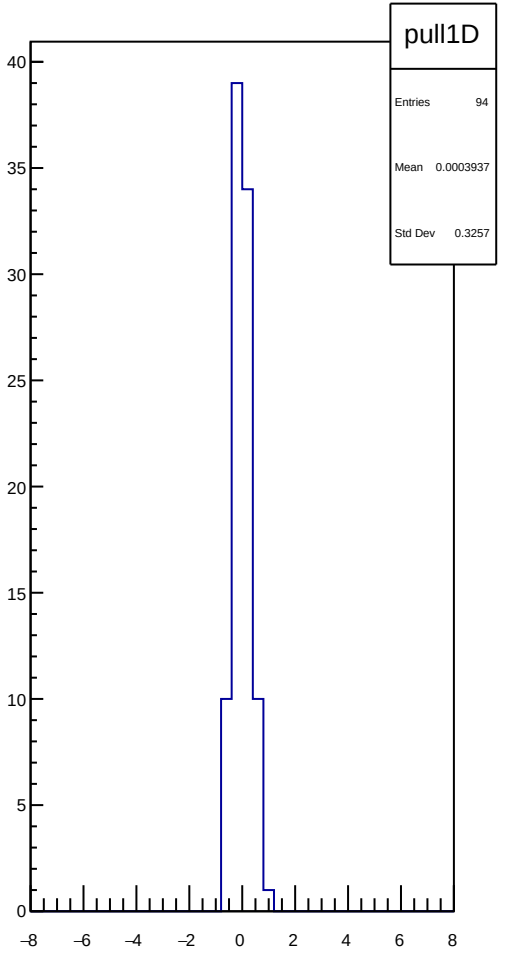

pull1D
Entries 94
Mean −0.001004
Std Dev 0.3518
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

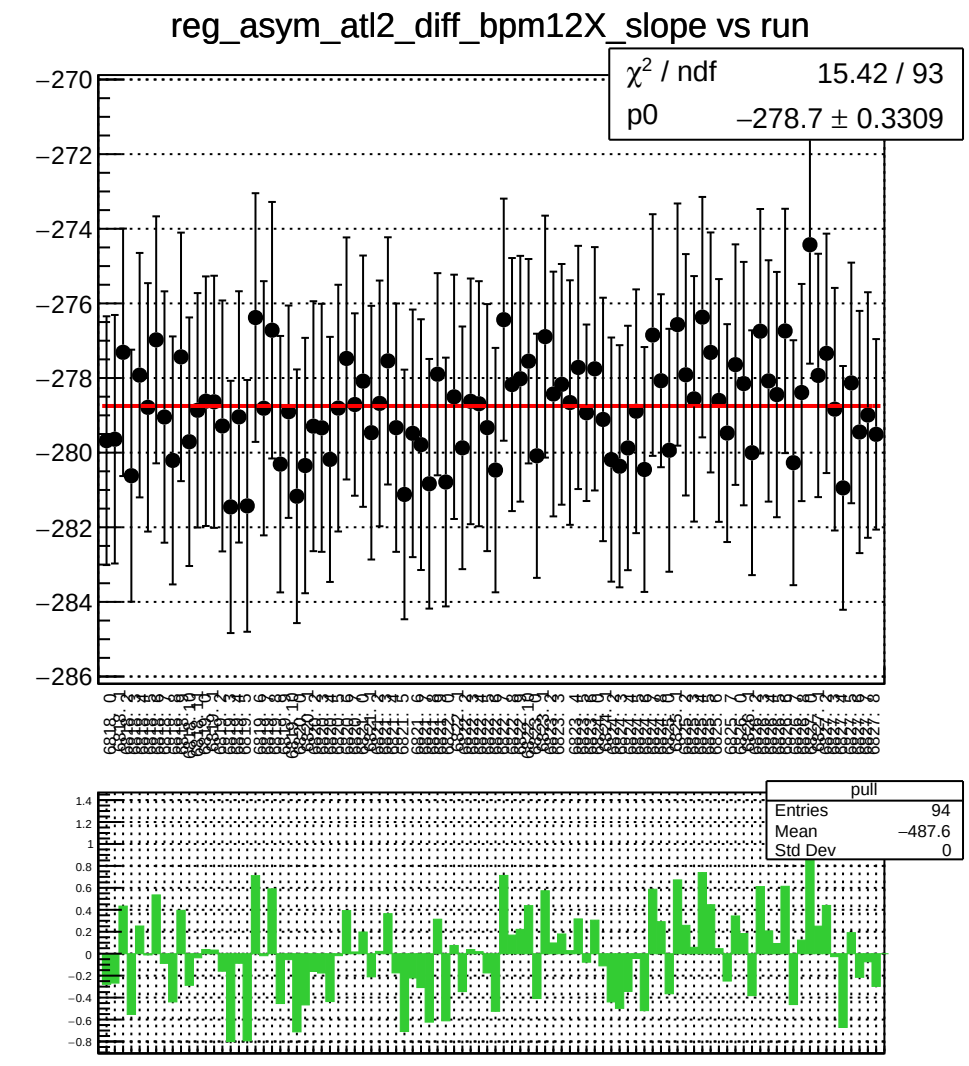

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 9.137 / 93
p0 22.94 ± 5.843
150
100
50
0
−50
−100
pull
Entries 94
Mean 351
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

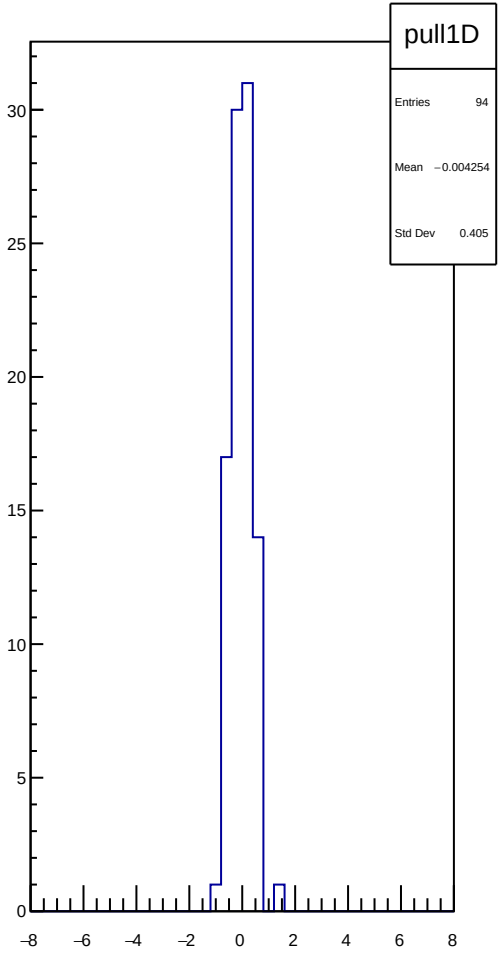

pull1D
Entries 94
Mean 0.0008701
Std Dev 0.3118
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

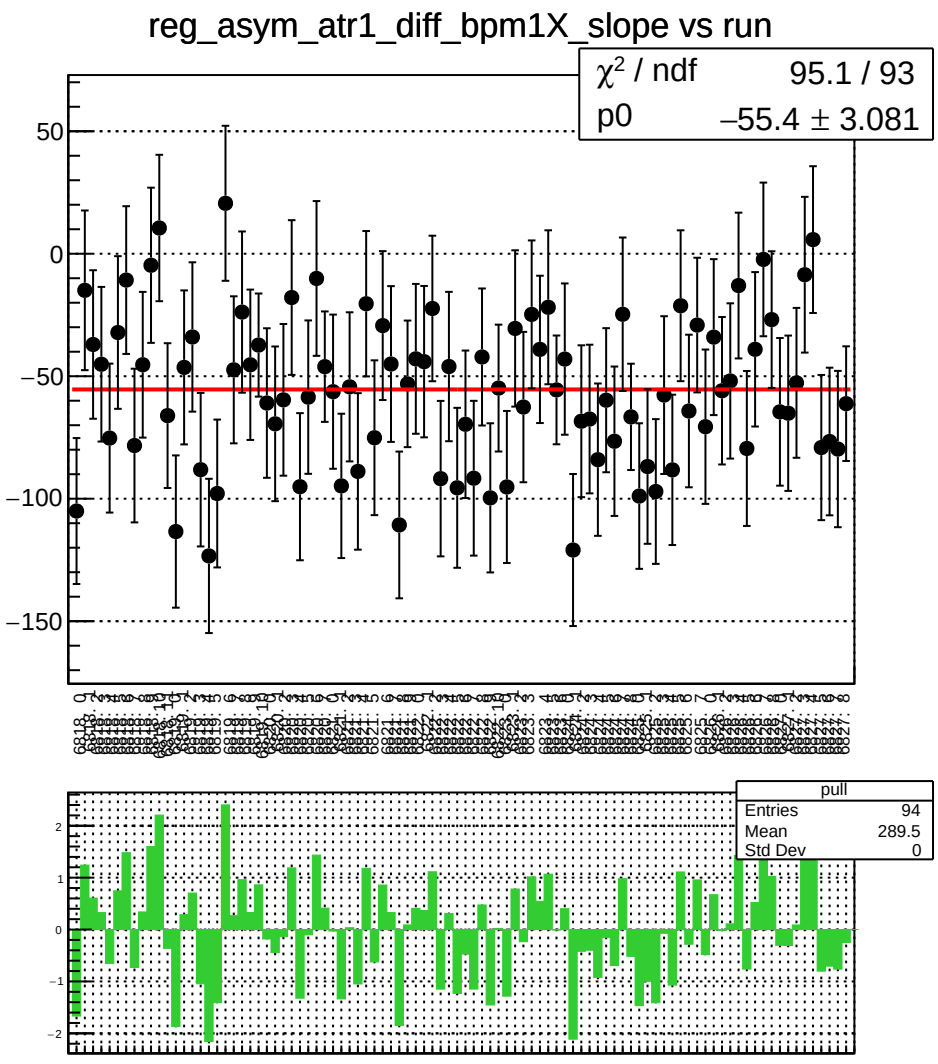

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 11.36 / 93
p0 483 ± 8.156
650
600
550
500
450
400
350
pull
Entries 94
Mean 1188
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean 0.0009488
Std Dev 0.3476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

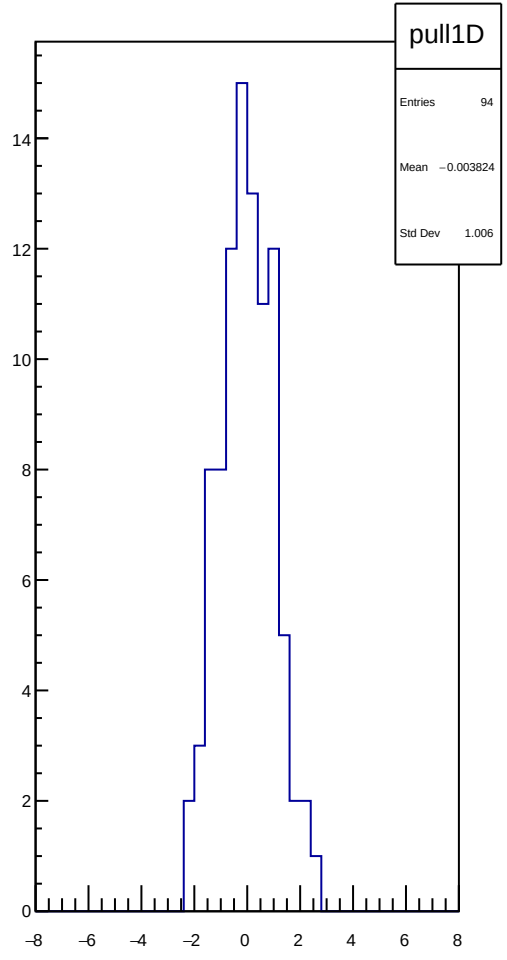

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 9.971 / 93
p0 112.3 ± 6.76
250
200
150
100
50
0
pull
Entries 94
Mean −333.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

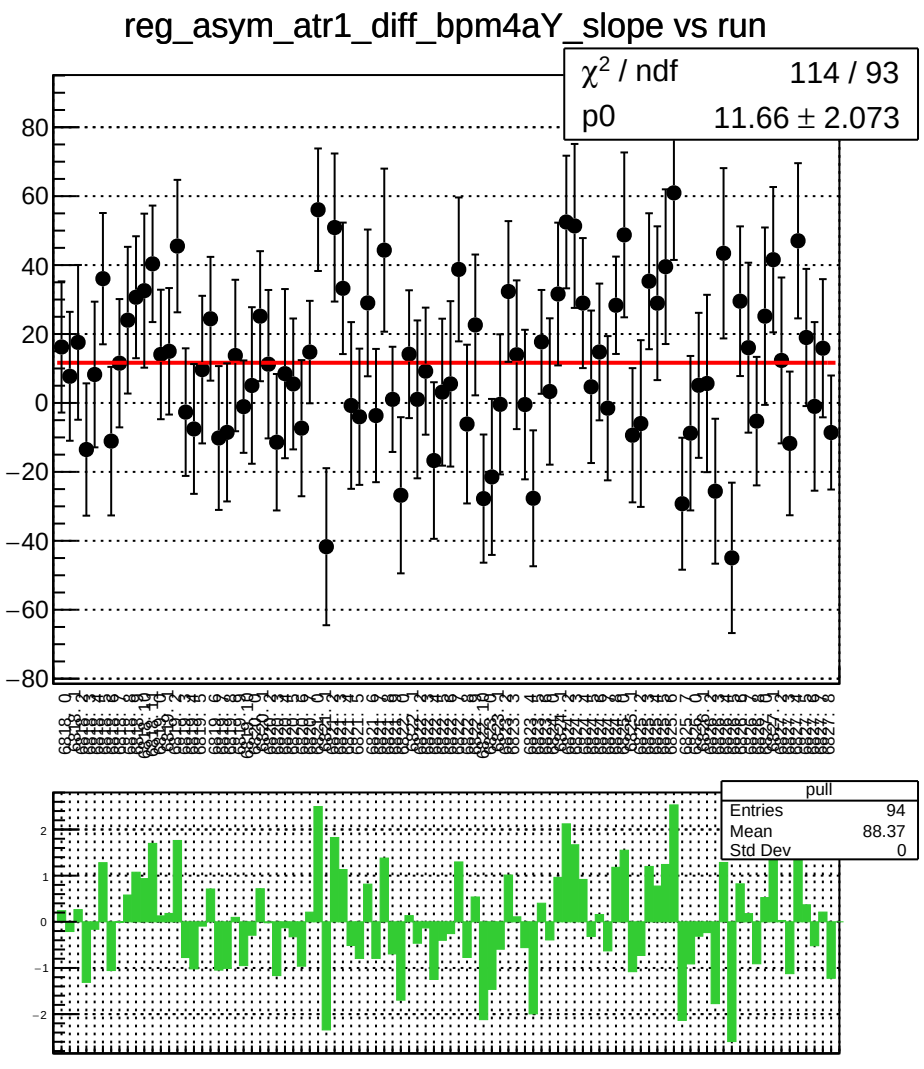

pull1D
Entries 94
Mean 0.0003937
Std Dev 0.3257
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

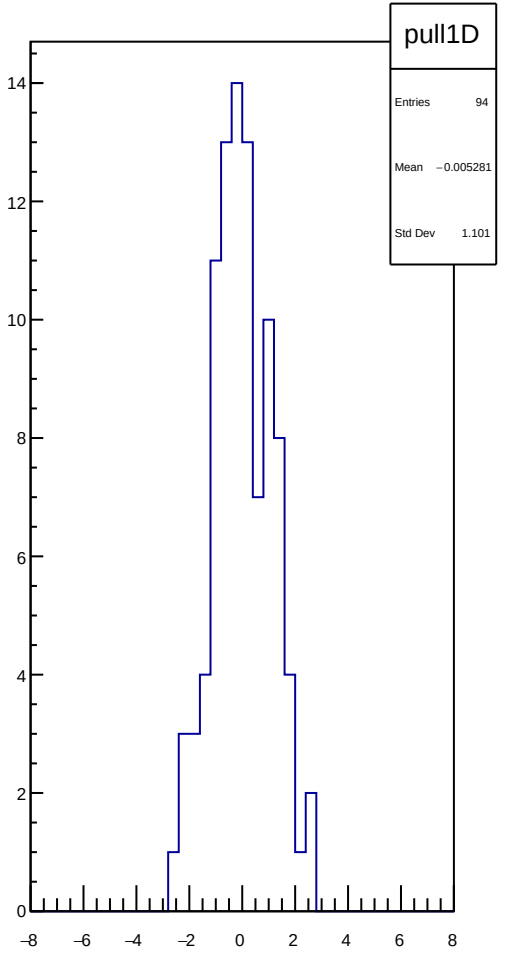

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 15.42 / 93
p0 −278.7 ± 0.3309
pull
Entries 94
Mean −487.6
Std Dev 0

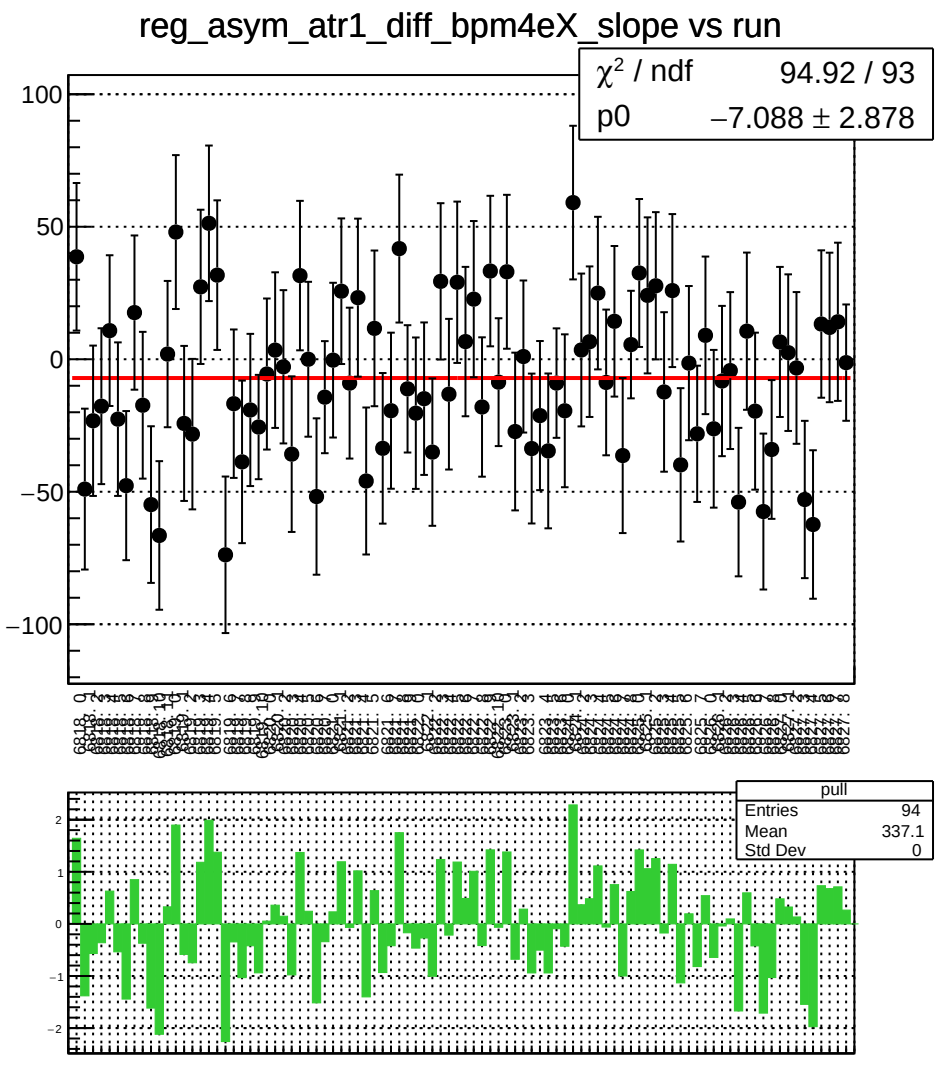

pull1D
Entries 94
Mean −0.004254
Std Dev 0.405

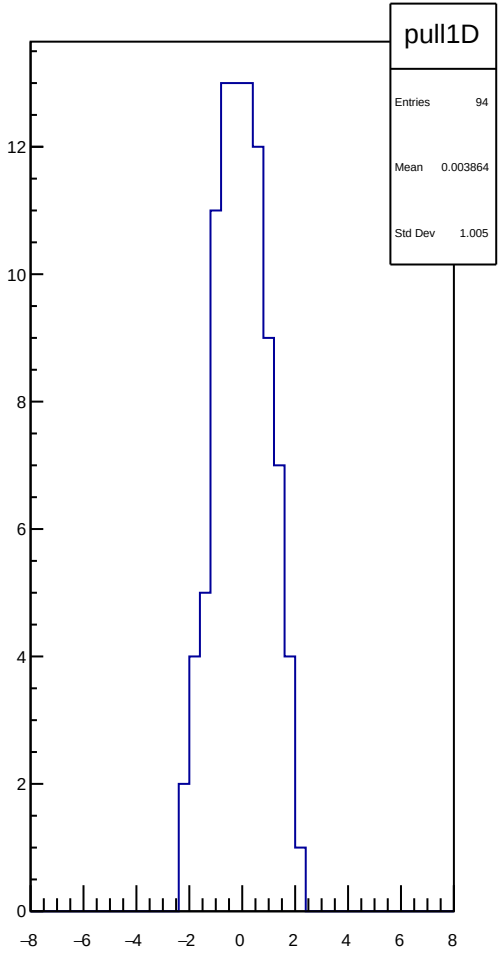

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 95.1 / 93
p0 −55.4 ± 3.081
50
0
−50
−100
−150
pull
Entries 94
Mean 289.5
Std Dev 0
2
1
0
−1
−2

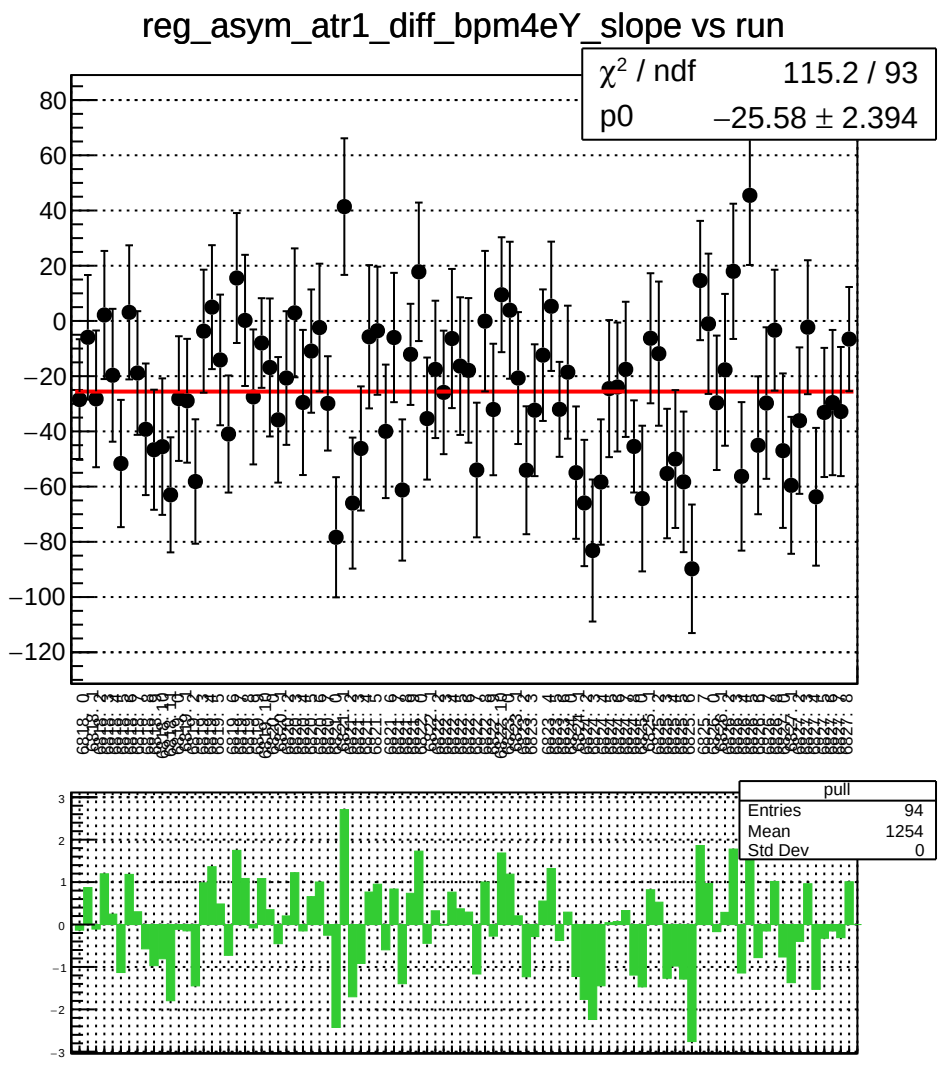

pull1D
Entries 94
Mean −0.003824
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

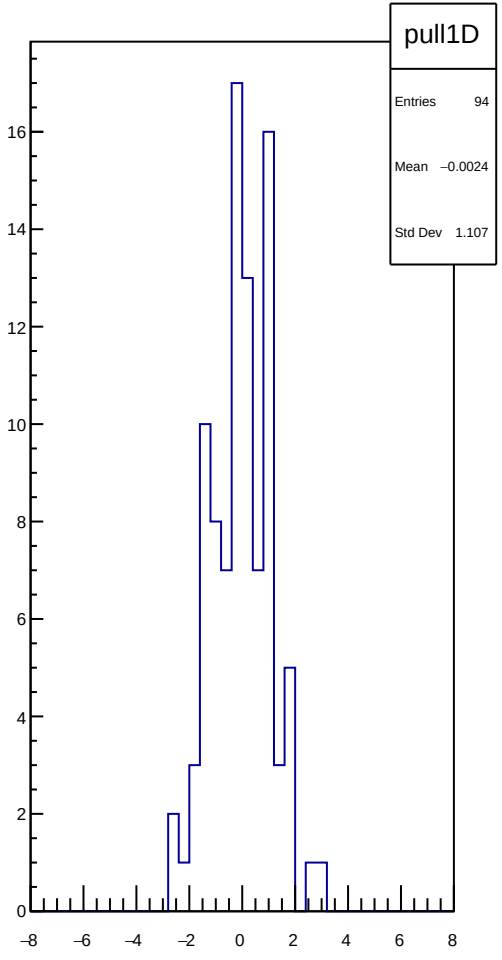

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 114 / 93
p0 11.66 ± 2.073
pull
Entries 94
Mean 88.37
Std Dev 0

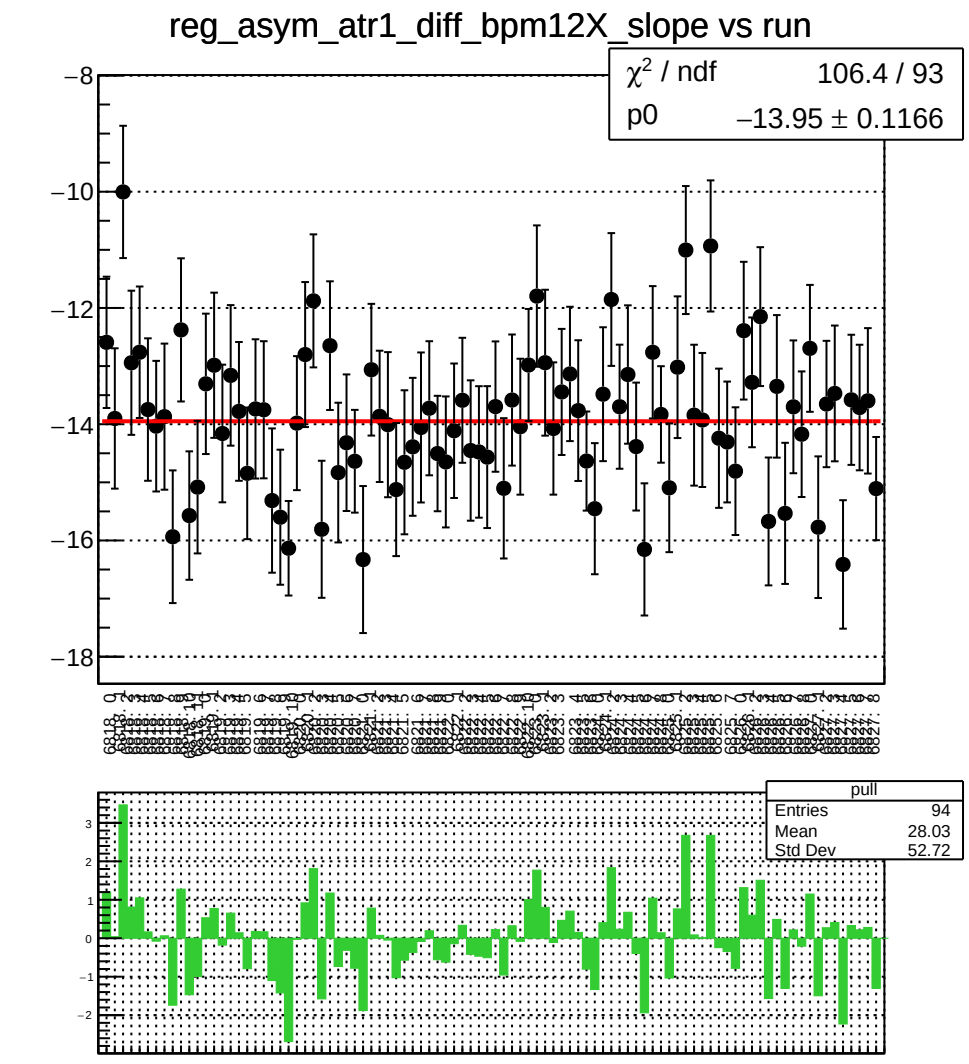

pull1D
Entries 94
Mean −0.005281
Std Dev 1.101

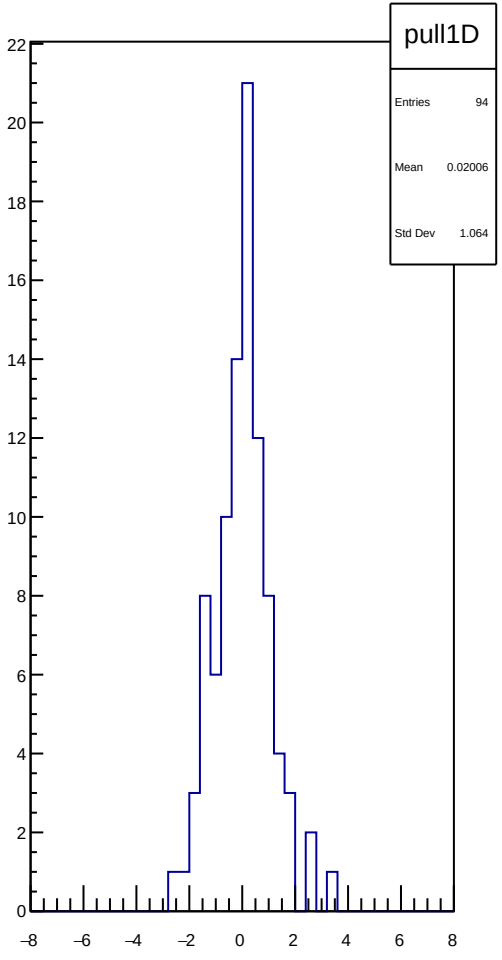

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 94.92 / 93
p0 −7.088 ± 2.878
100
50
0
−50
−100
pull
Entries 94
Mean 337.1
Std Dev 0
2
1
0
−1
−2

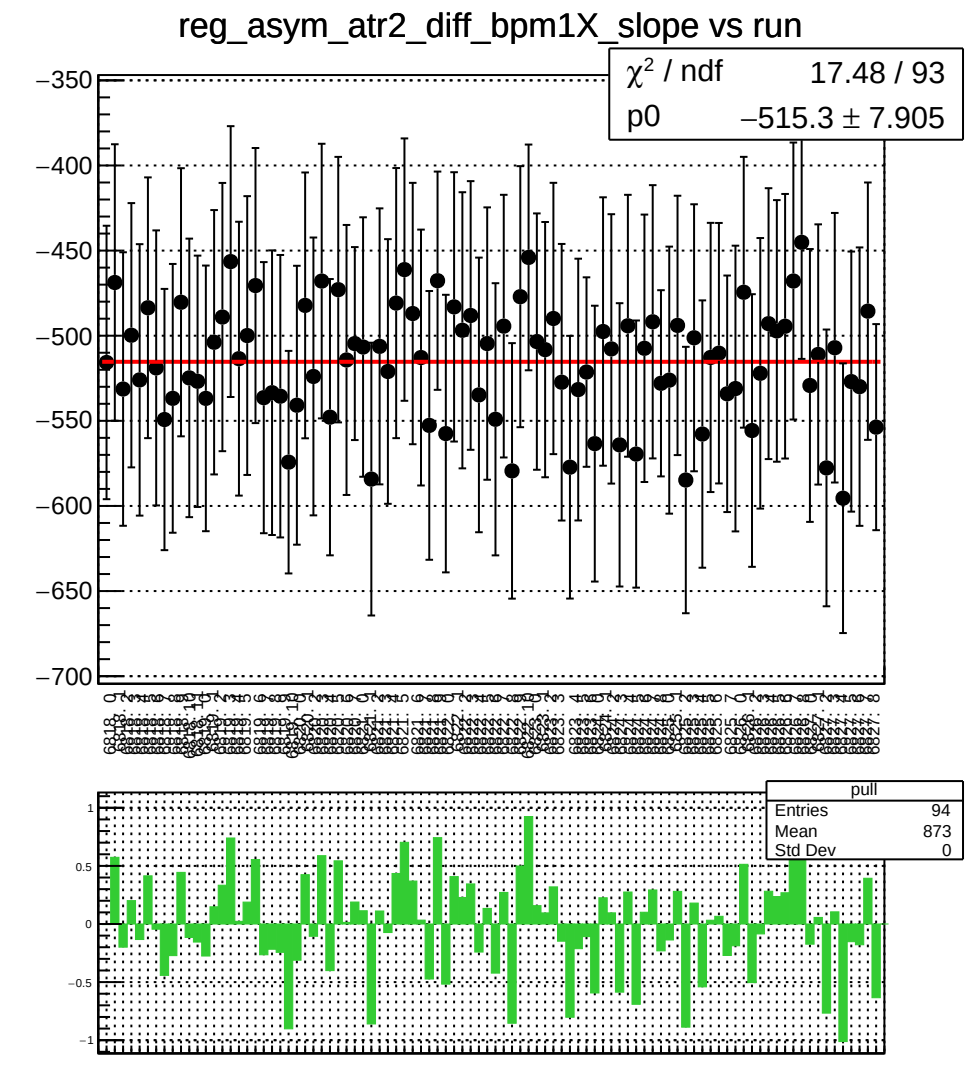

pull1D
Entries 94
Mean 0.003864
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

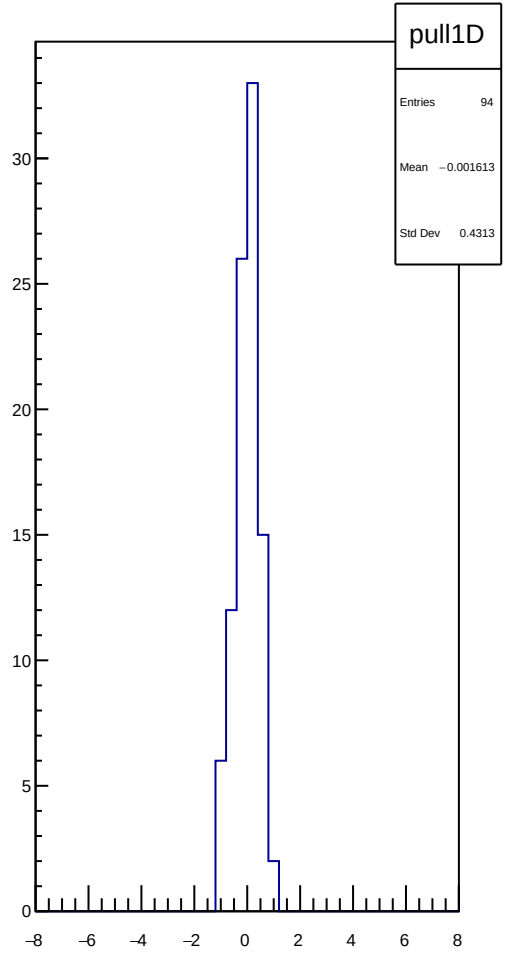

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 115.2 / 93
p0 −25.58 ± 2.394
pull
Entries 94
Mean 1254
Std Dev 0

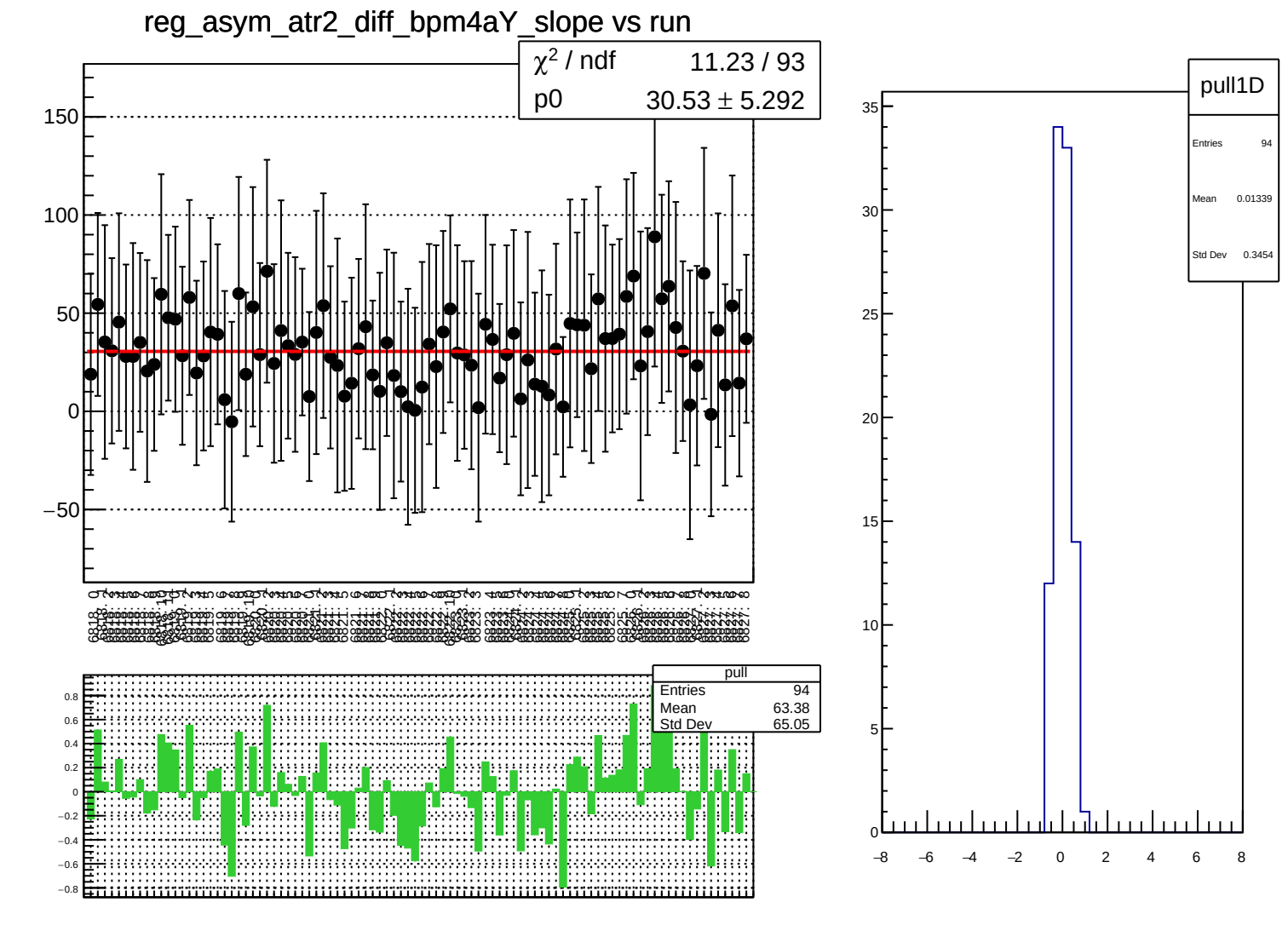

pull1D
Entries 94
Mean −0.0024
Std Dev 1.107

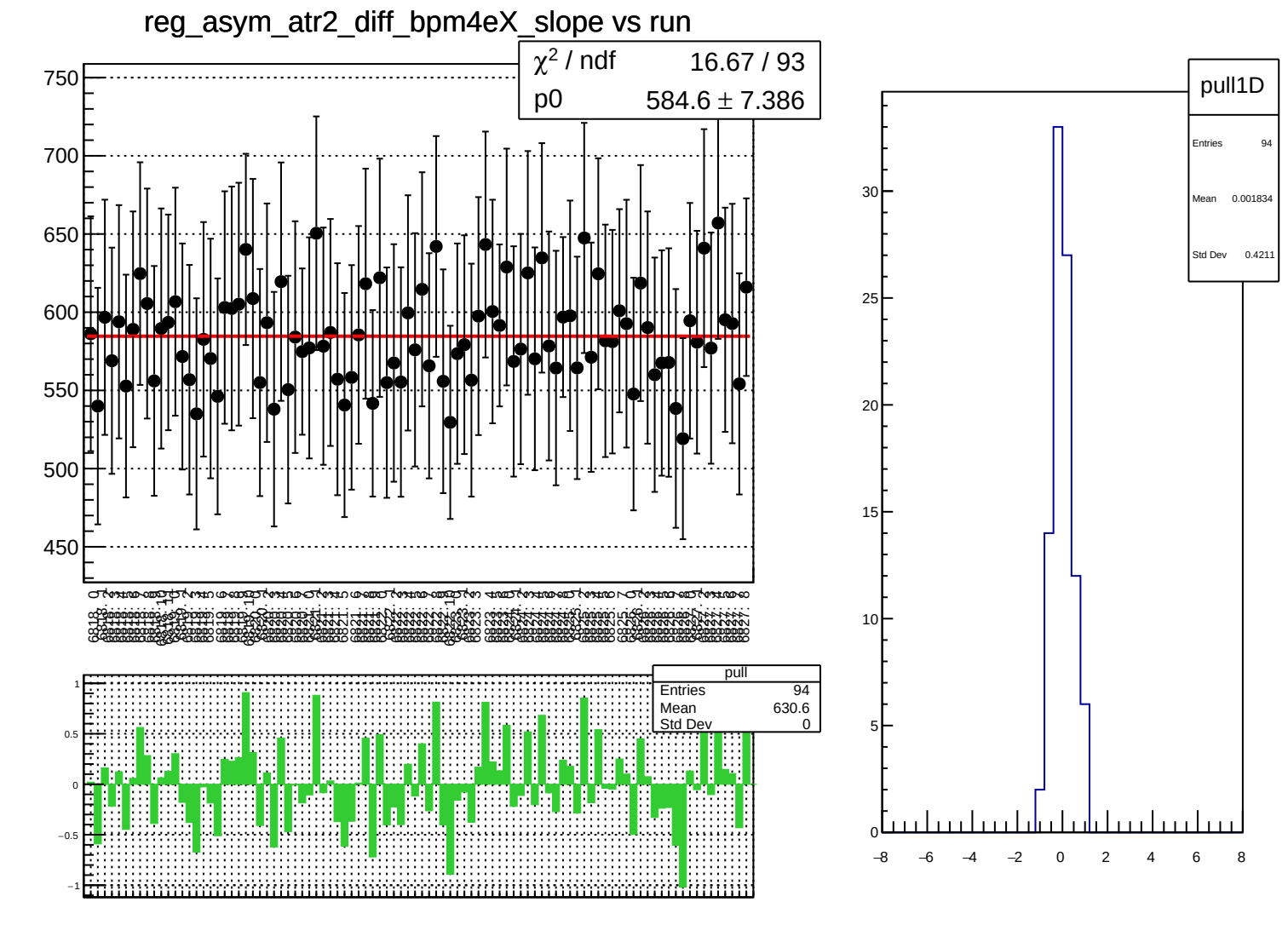

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 106.4 / 93
p0 −13.95 ± 0.1166
pull
Entries 94
Mean 28.03
Std Dev 52.72

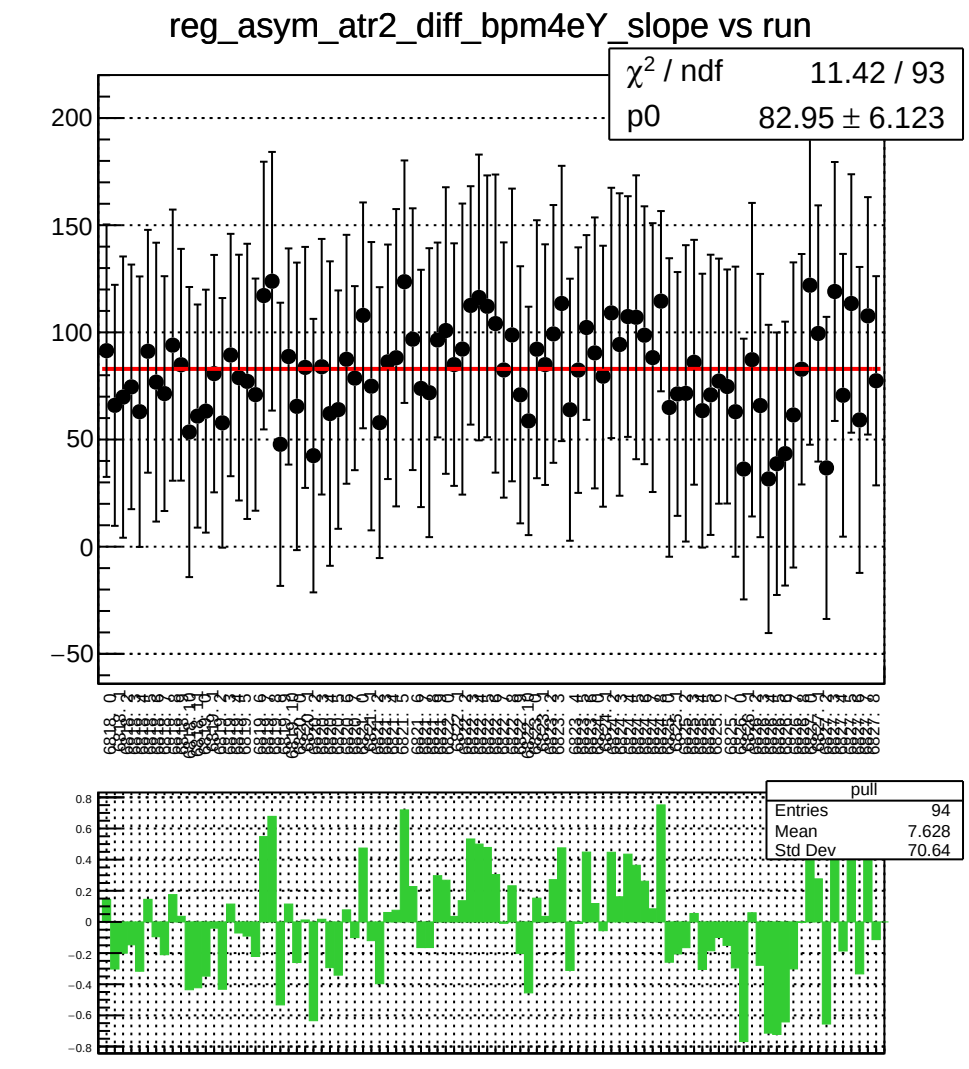

pull1D
Entries 94
Mean 0.02006
Std Dev 1.064

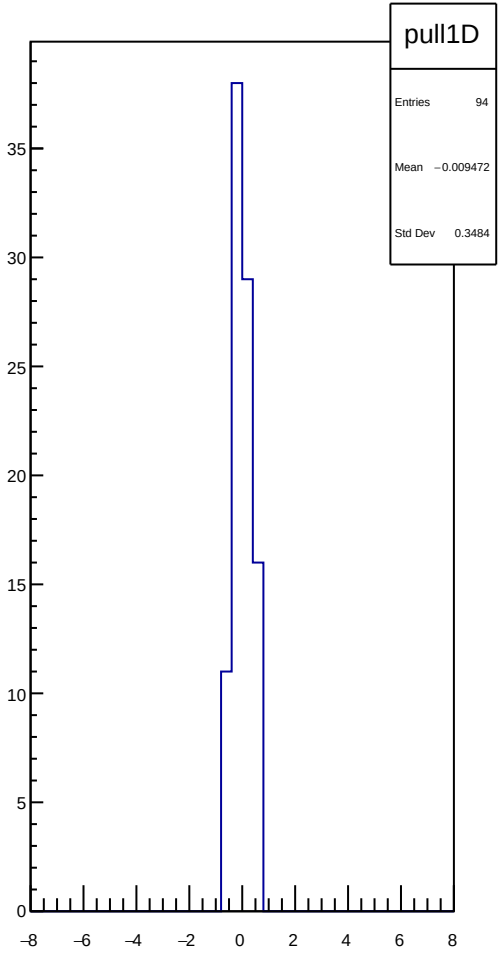

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 17.48 / 93
p0 −515.3 ± 7.905
−350
−400
−450
−500
−550
−600
−650
−700
pull
Entries 94
Mean 873
Std Dev 0
1
0.5
0
−0.5
−1

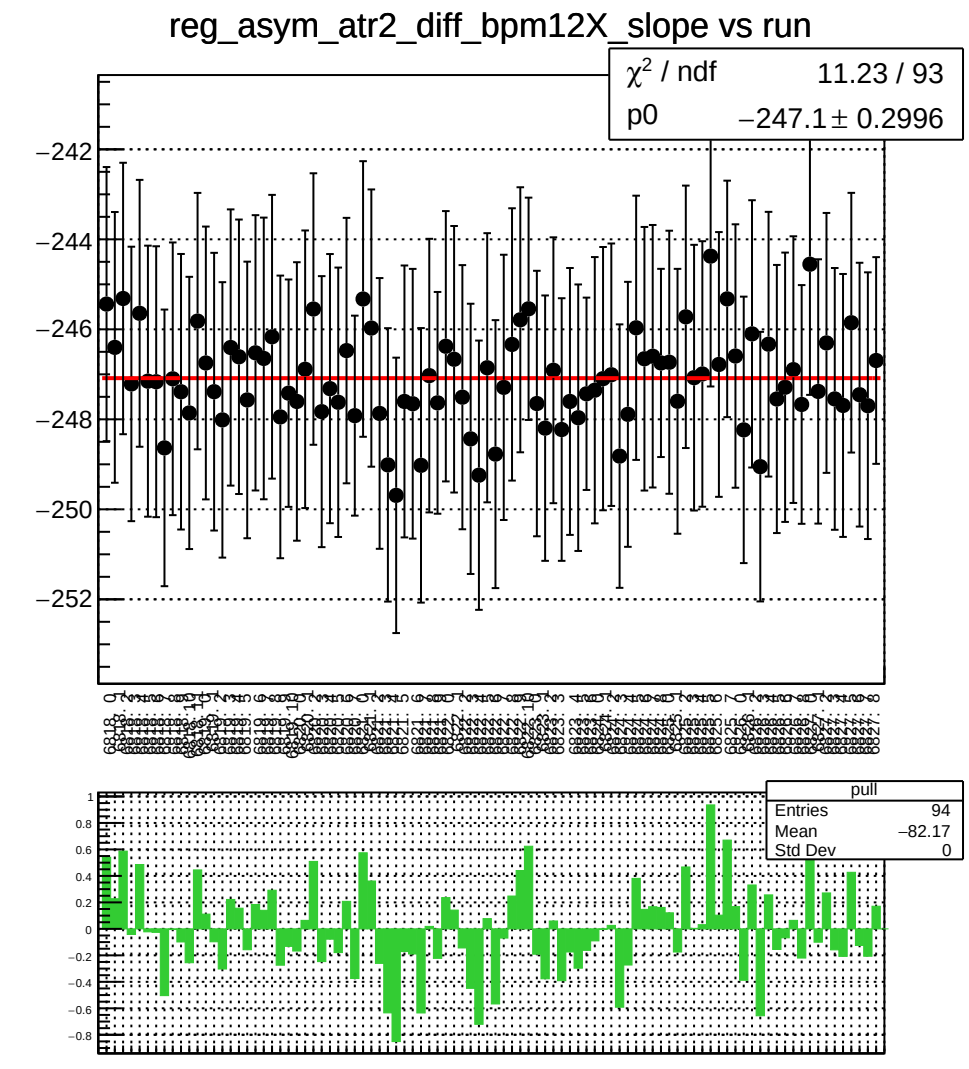

pull1D
Entries 94
Mean −0.001613
Std Dev 0.4313
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

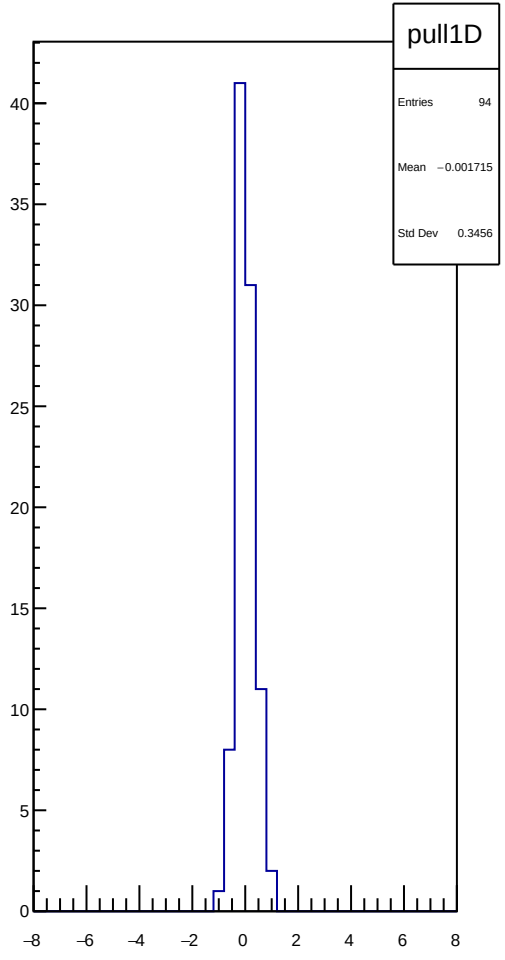

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 11.23 / 93
p0 30.53 ± 5.292
150
100
50
0
−50
pull
Entries 94
Mean 63.38
Std Dev 65.05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean 0.01339
Std Dev 0.3454
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

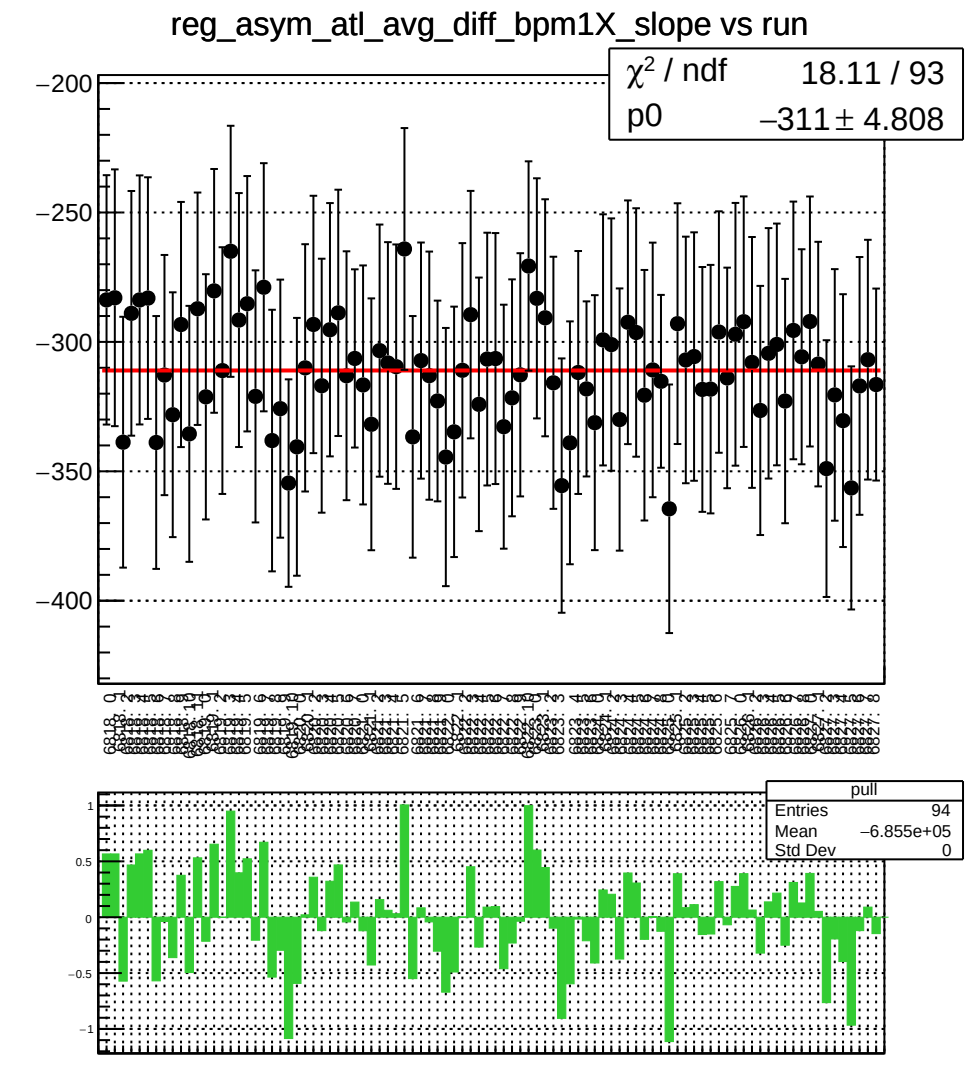

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 16.67 / 93
p0 584.6 ± 7.386
750
700
650
600
550
500
450
pull
Entries 94
Mean 630.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.001834
Std Dev 0.4211
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

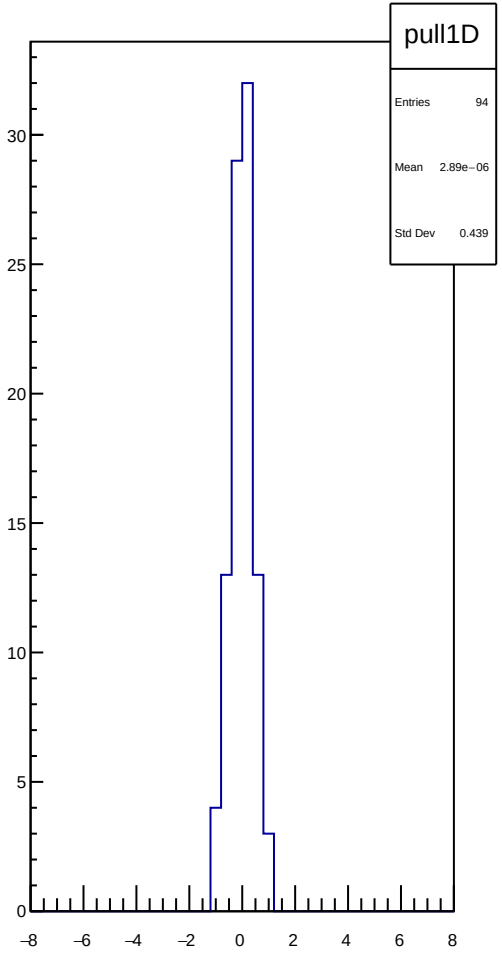

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 11.42 / 93
p0 82.95 ± 6.123
pull
Entries 94
Mean 7.628
Std Dev 70.64

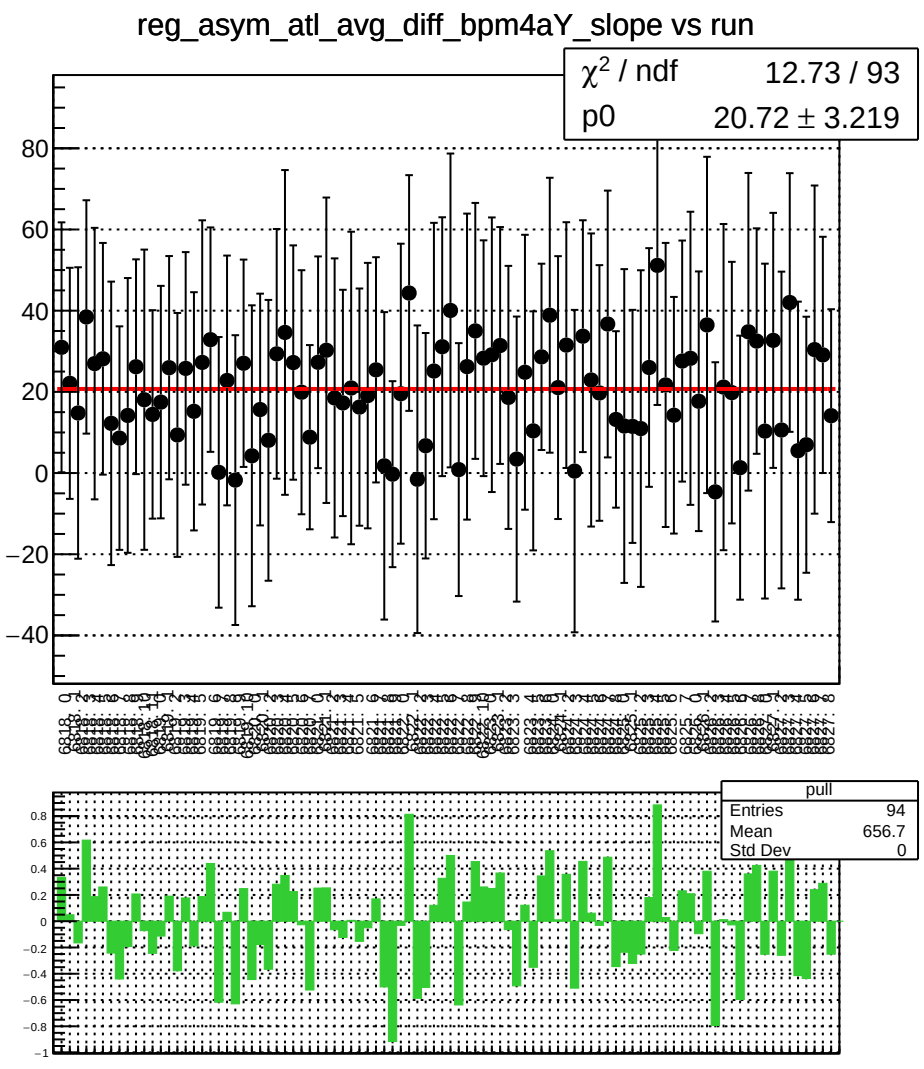

pull1D
Entries 94
Mean −0.009472
Std Dev 0.3484

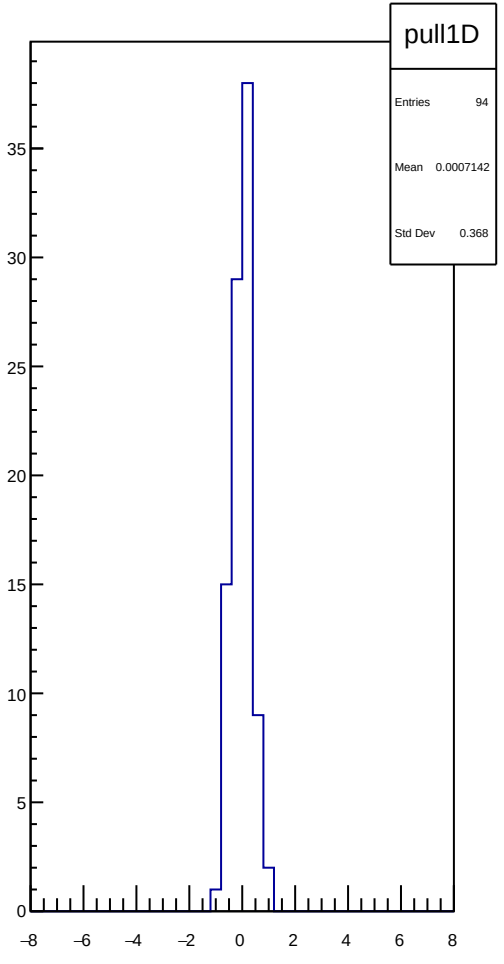

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 11.23 / 93
p0 −247.1 ± 0.2996
−242
−244
−246
−248
−250
−252
pull
Entries 94
Mean −82.17
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

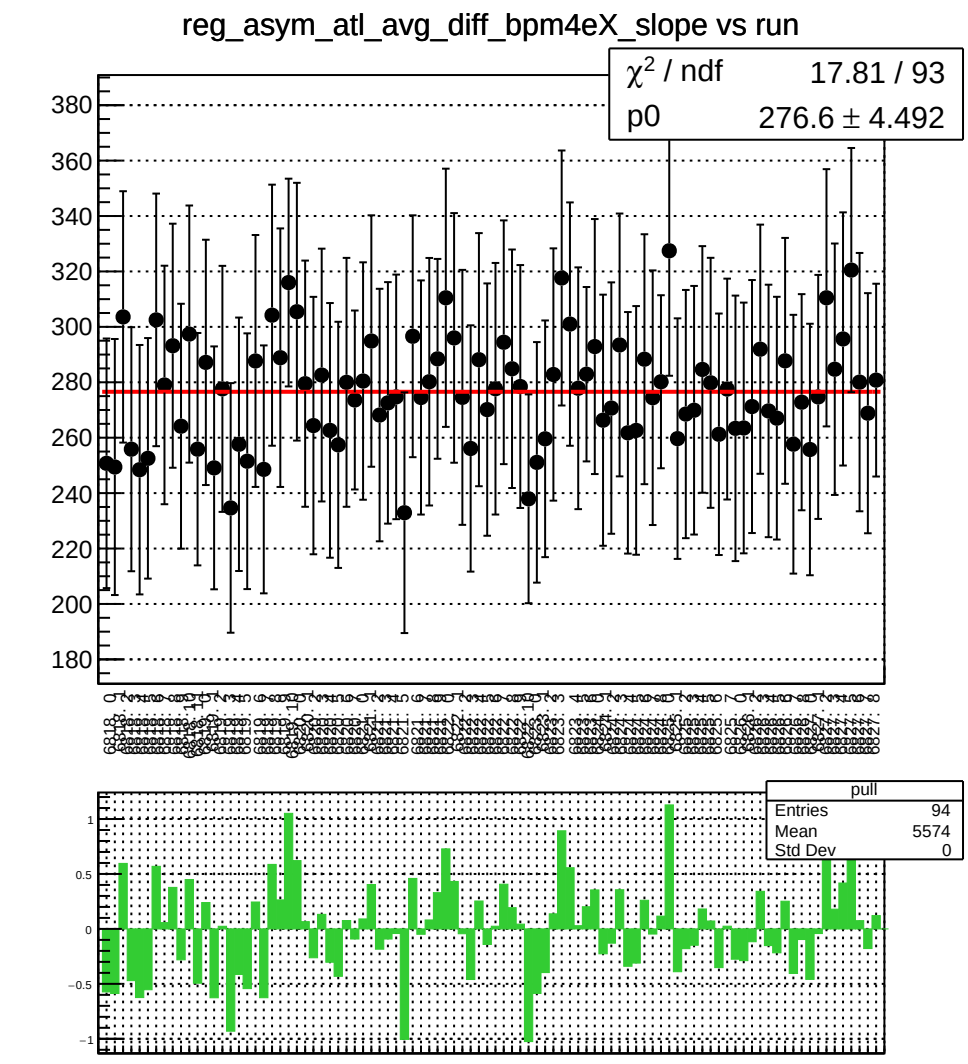

pull1D
Entries 94
Mean −0.001715
Std Dev 0.3456
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

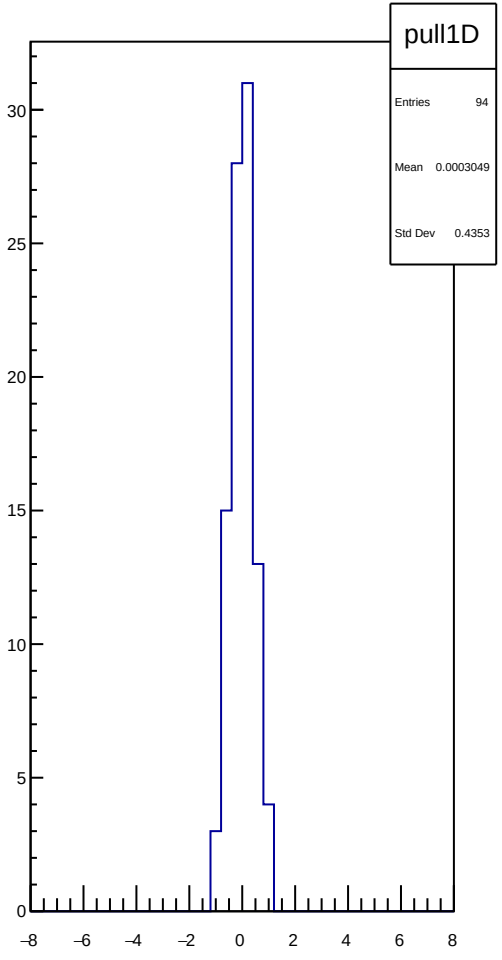

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 18.11 / 93
p0 −311 ± 4.808
−200
−250
−300
−350
−400
pull
Entries 94
Mean −6.855e+05
Std Dev 0
1
0.5
0
−0.5
−1

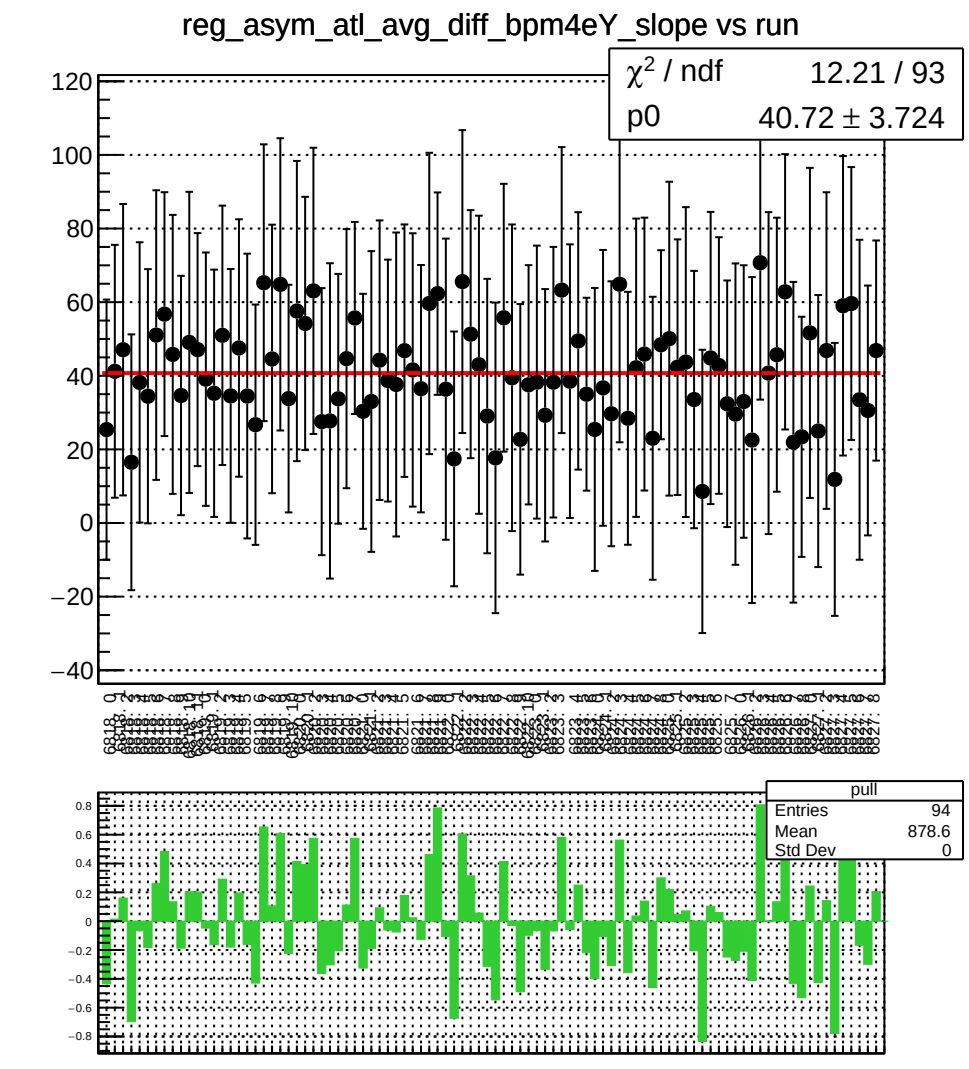

pull1D
Entries 94
Mean 2.89e−06
Std Dev 0.439
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

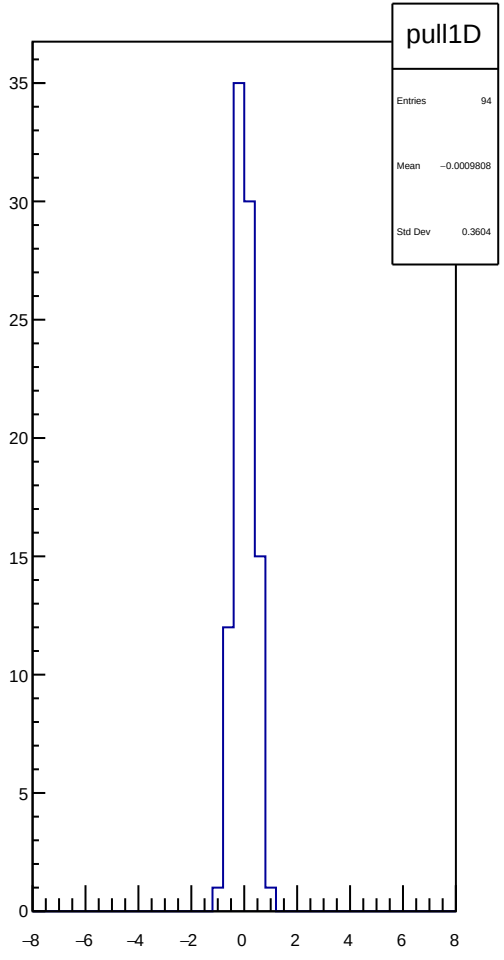

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.73 / 93
p0 20.72 ± 3.219
pull
Entries 94
Mean 656.7
Std Dev 0

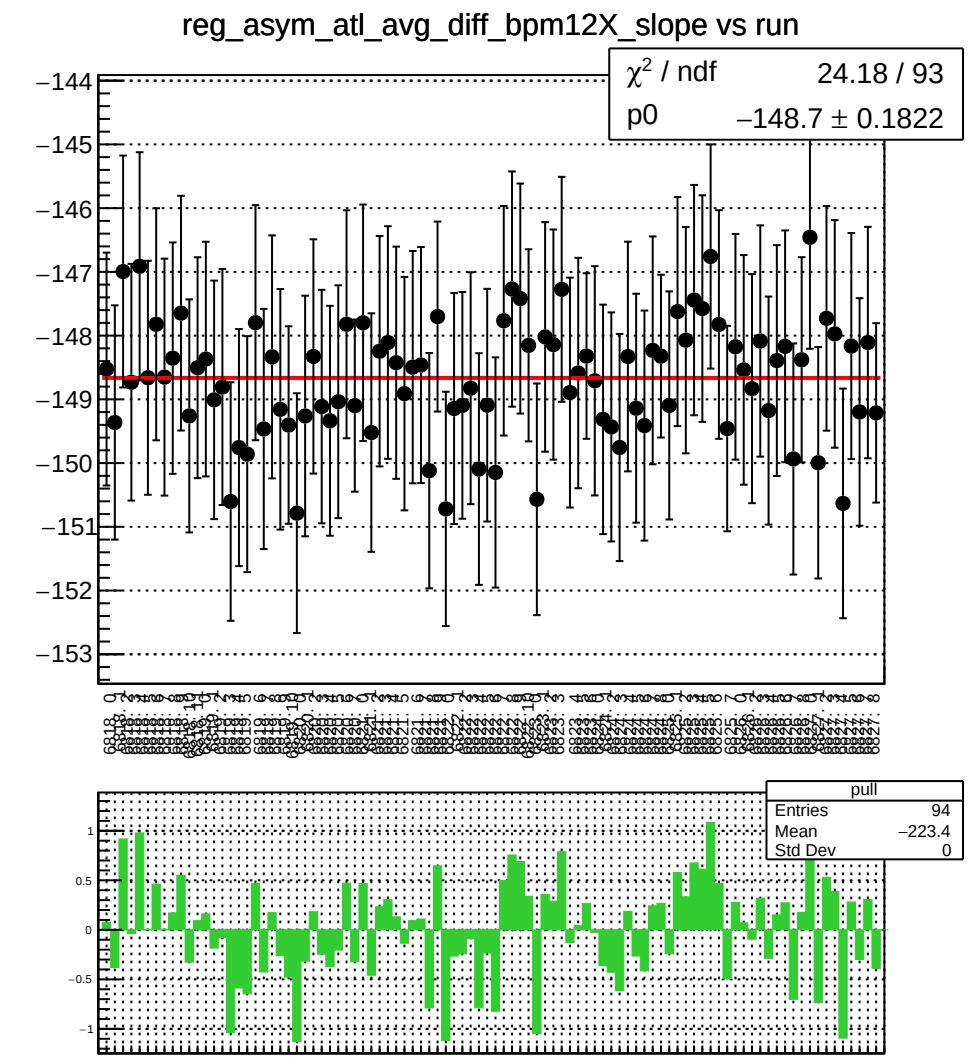

pull1D
Entries 94
Mean 0.0007142
Std Dev 0.368

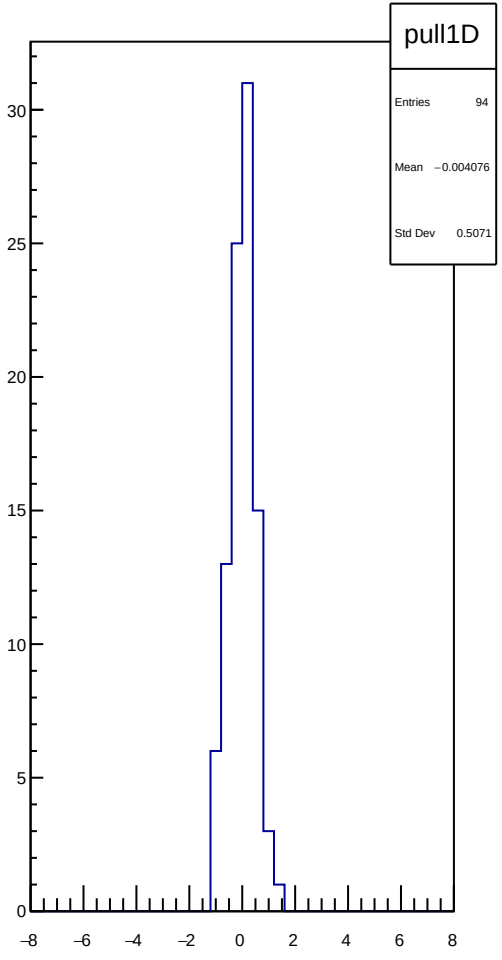

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.81 / 93
p0 276.6 ± 4.492
pull
Entries 94
Mean 5574
Std Dev 0

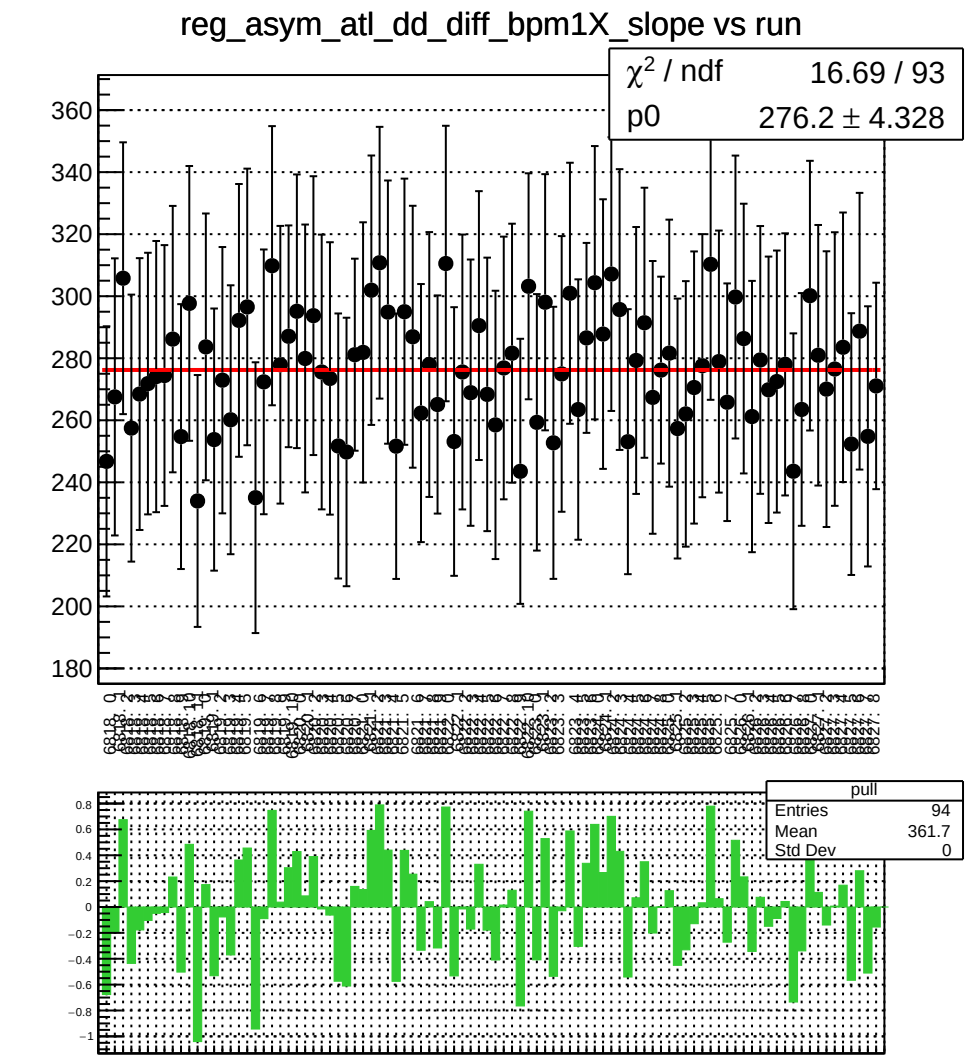

pull1D
Entries 94
Mean 0.0003049
Std Dev 0.4353

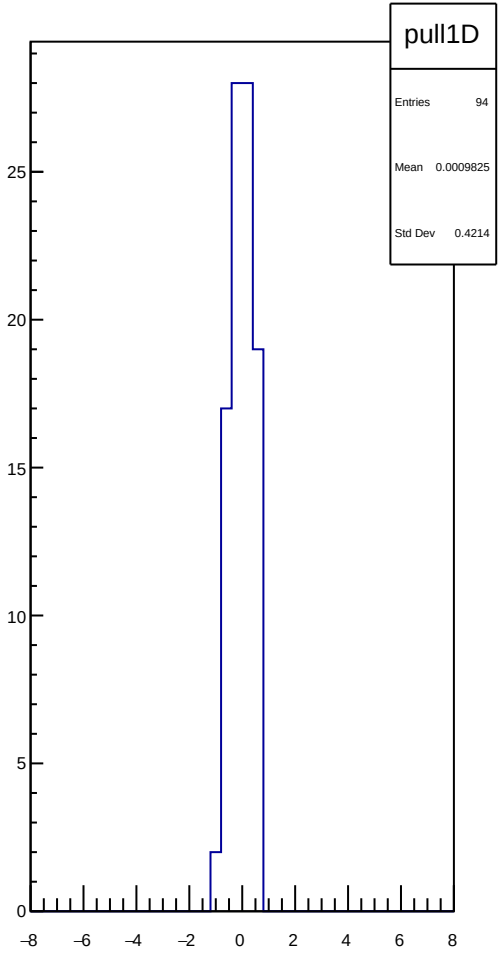

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.21 / 93
p0 40.72 ± 3.724
pull
Entries 94
Mean 878.6
Std Dev 0

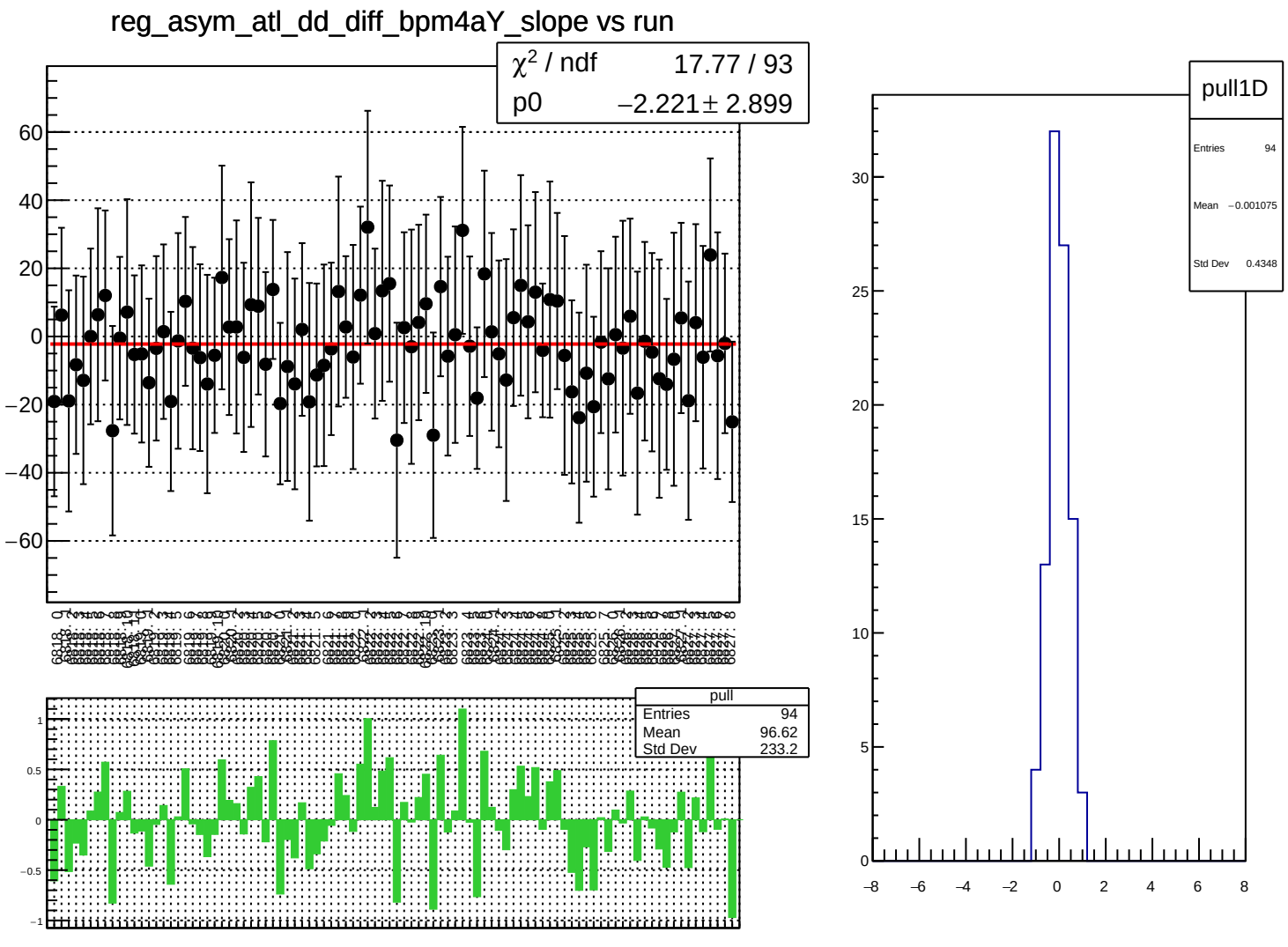

pull1D
Entries 94
Mean −0.0009808
Std Dev 0.3604

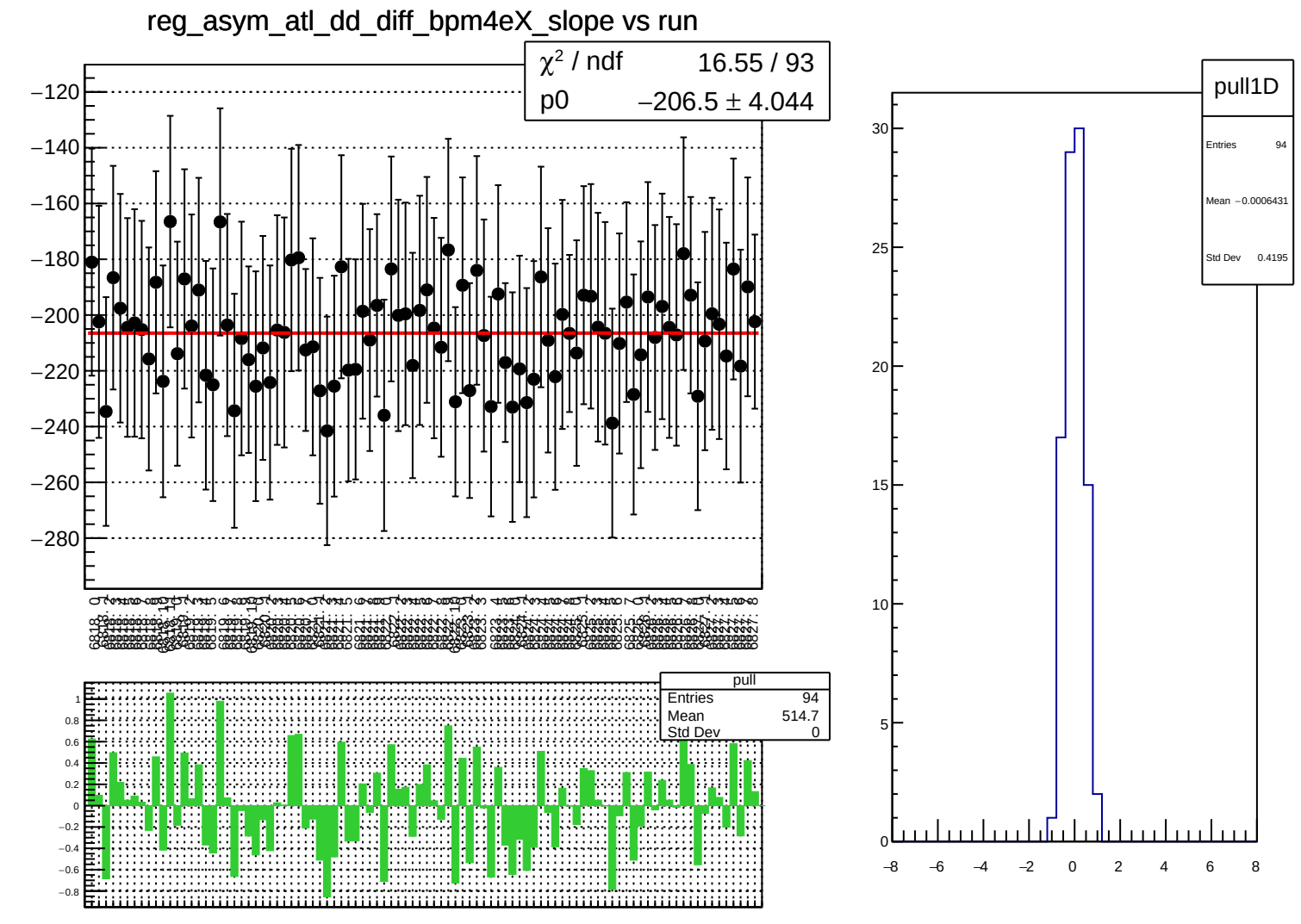

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 24.18 / 93
p0 −148.7 ± 0.1822
pull
Entries 94
Mean −223.4
Std Dev 0

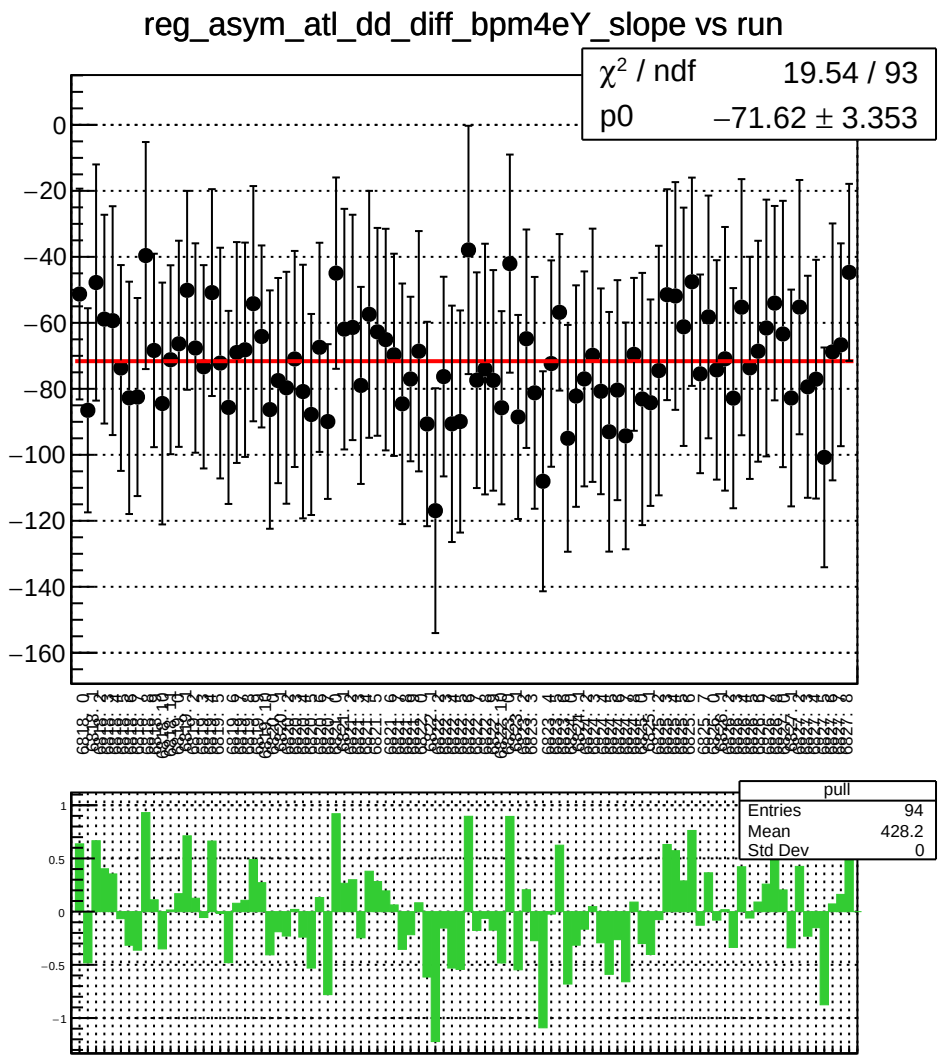

pull1D
Entries 94
Mean −0.004076
Std Dev 0.5071

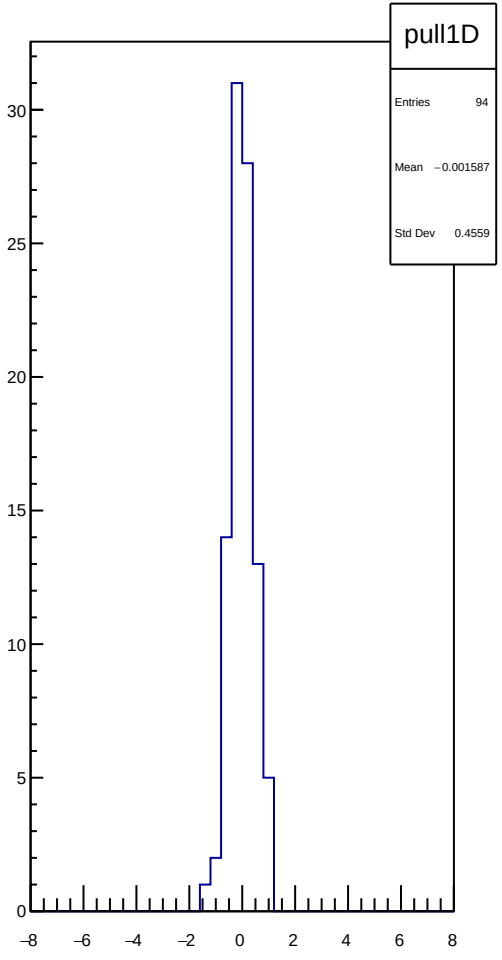

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 16.69 / 93
p0 276.2 ± 4.328
pull
Entries 94
Mean 361.7
Std Dev 0

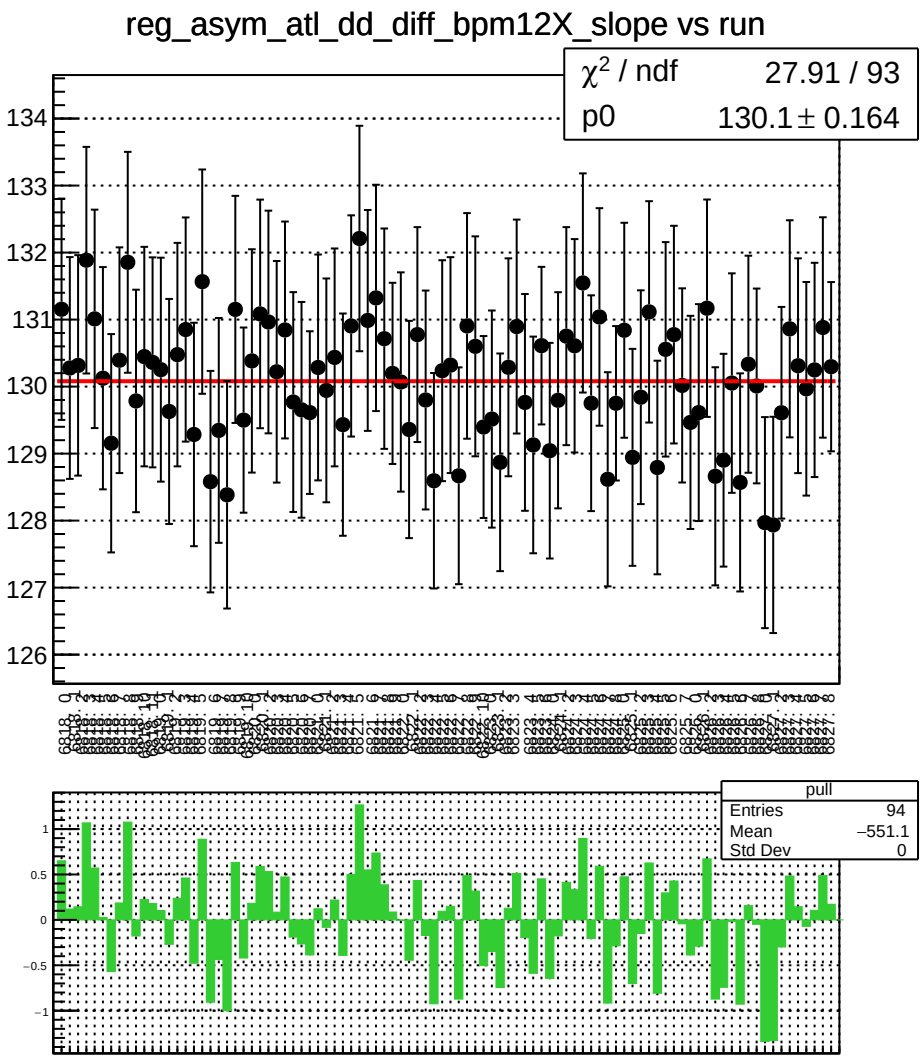

pull1D
Entries 94
Mean 0.0009825
Std Dev 0.4214

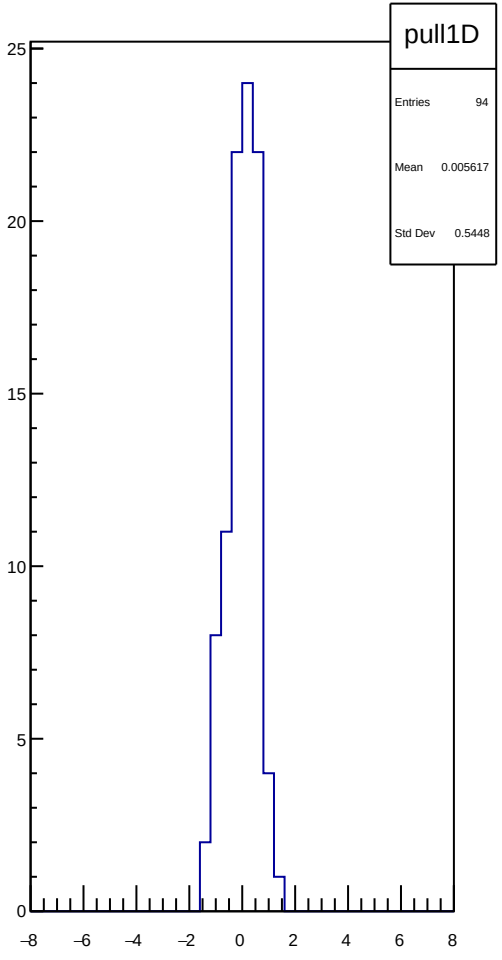

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.77 / 93
p0 −2.221 ± 2.899
pull
Entries 94
Mean 96.62
Std Dev 233.2
pull1D
Entries 94
Mean −0.001075
Std Dev 0.4348

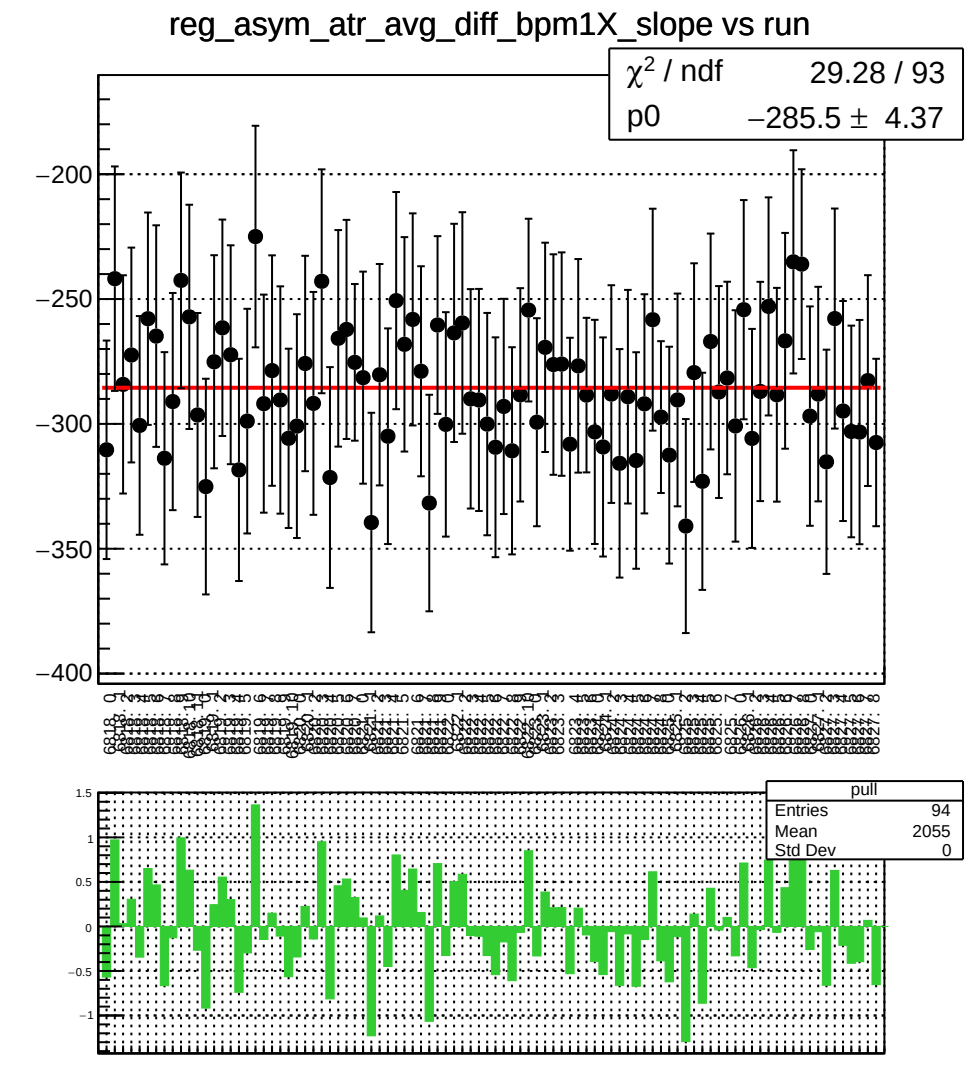

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.55 / 93
p0 −206.5 ± 4.044
pull
Entries 94
Mean 514.7
Std Dev 0
pull1D
Entries 94
Mean −0.0006431
Std Dev 0.4195

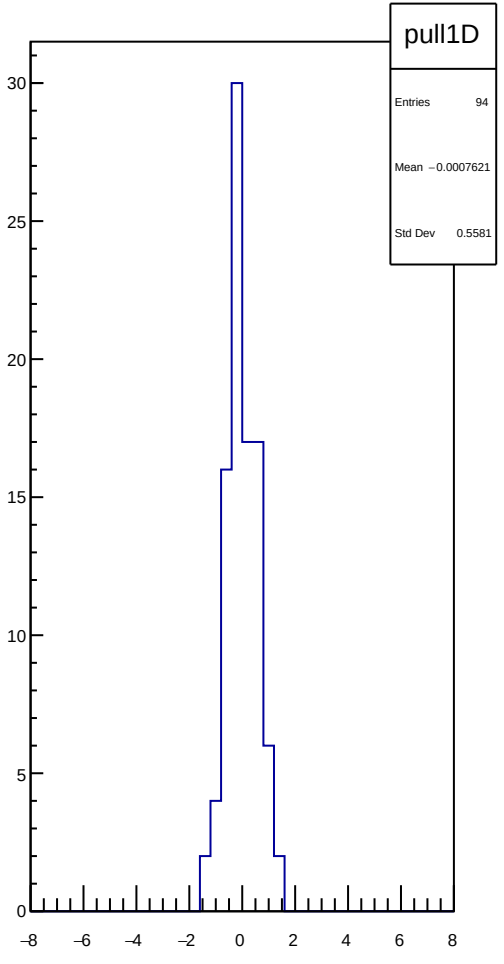

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.54 / 93
p0 −71.62 ± 3.353
pull
Entries 94
Mean 428.2
Std Dev 0

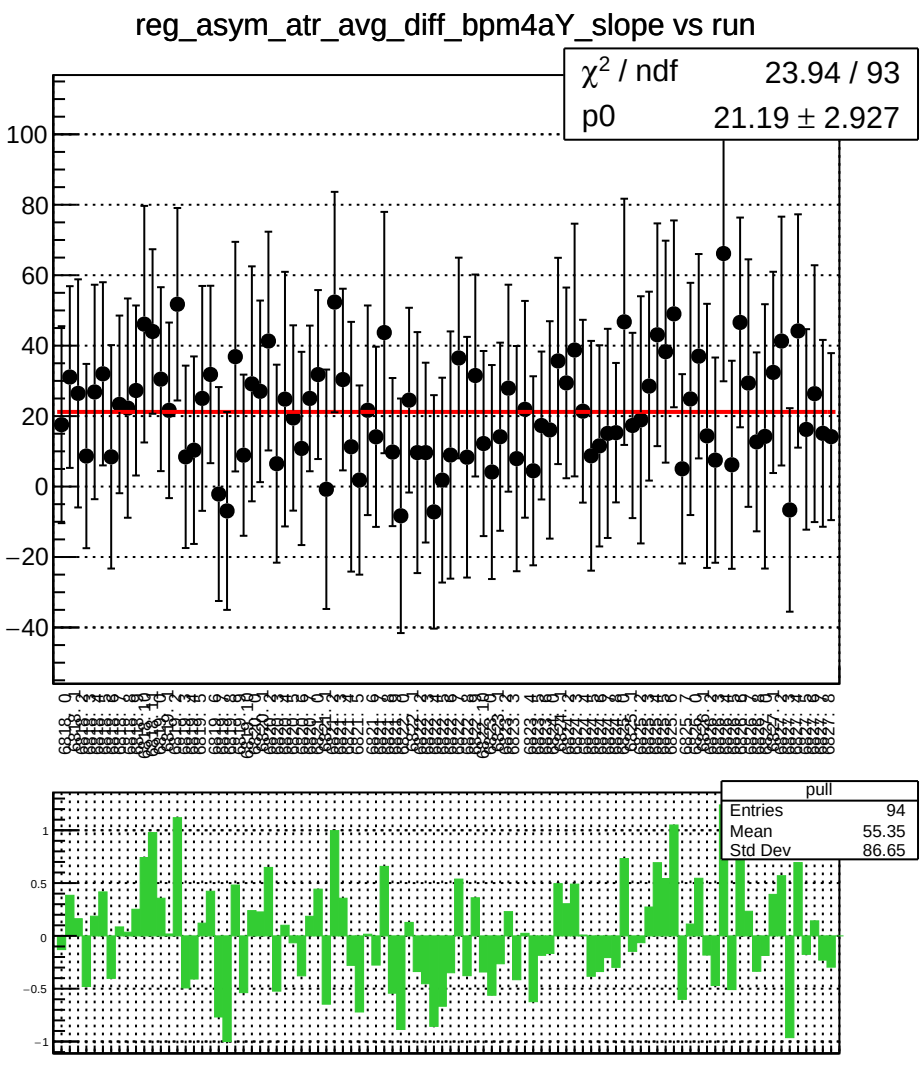

pull1D
Entries 94
Mean −0.001587
Std Dev 0.4559

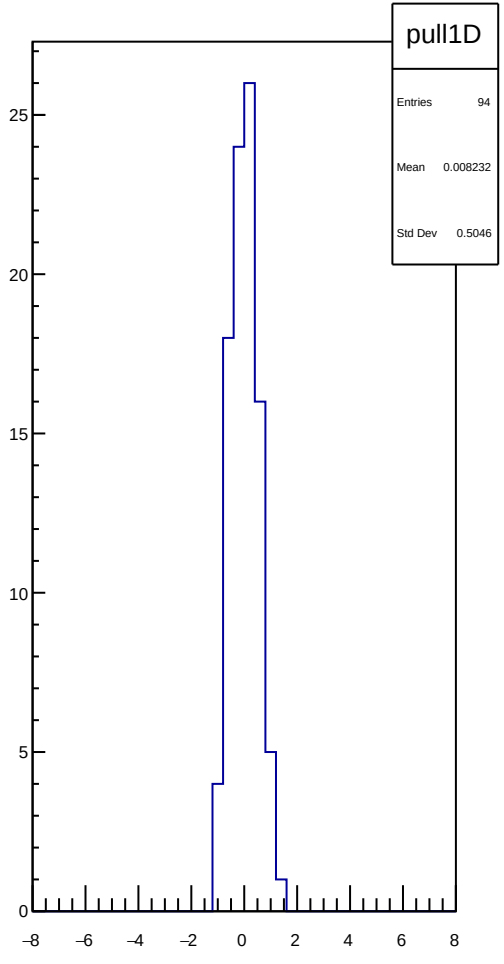

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 27.91 / 93
p0 130.1 ± 0.164
134
133
132
131
130
129
128
127
126
pull
Entries 94
Mean −551.1
Std Dev 0
1
0.5
0
−0.5
−1

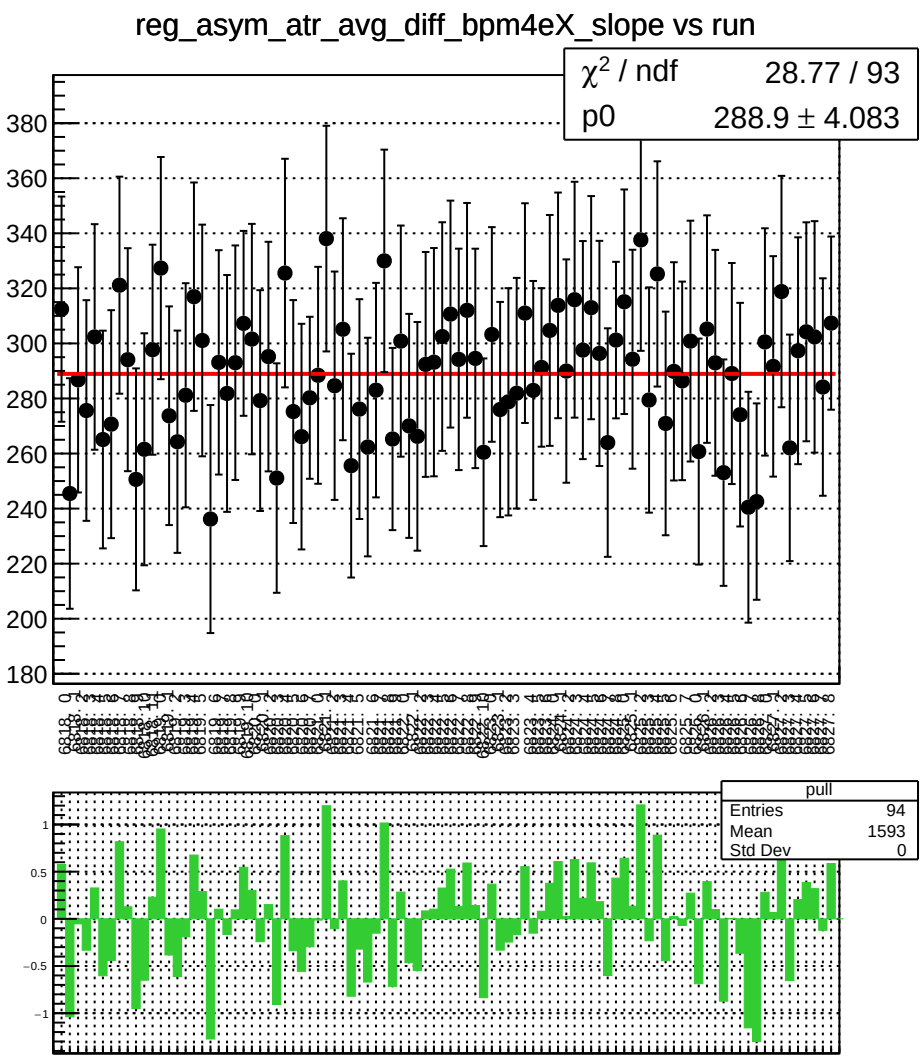

pull1D
Entries 94
Mean 0.005617
Std Dev 0.5448
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

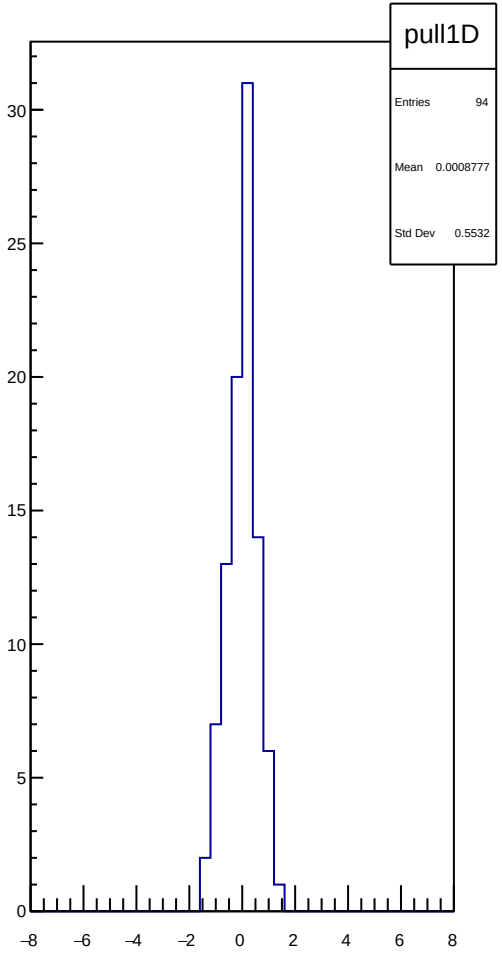

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 29.28 / 93
p0 −285.5 ± 4.37
−200
−250
−300
−350
−400
pull
Entries 94
Mean 2055
Std Dev 0
1.5
1
0.5
0
−0.5
−1

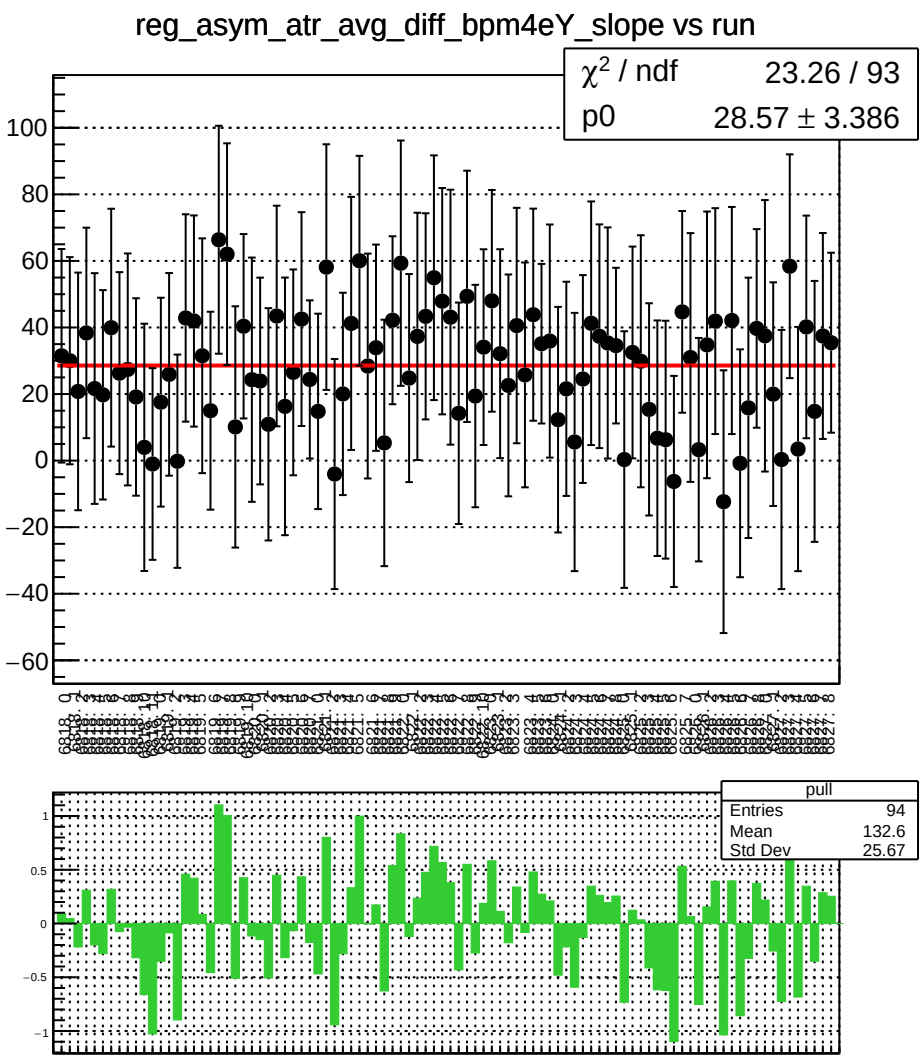

pull1D
Entries 94
Mean −0.0007621
Std Dev 0.5581
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

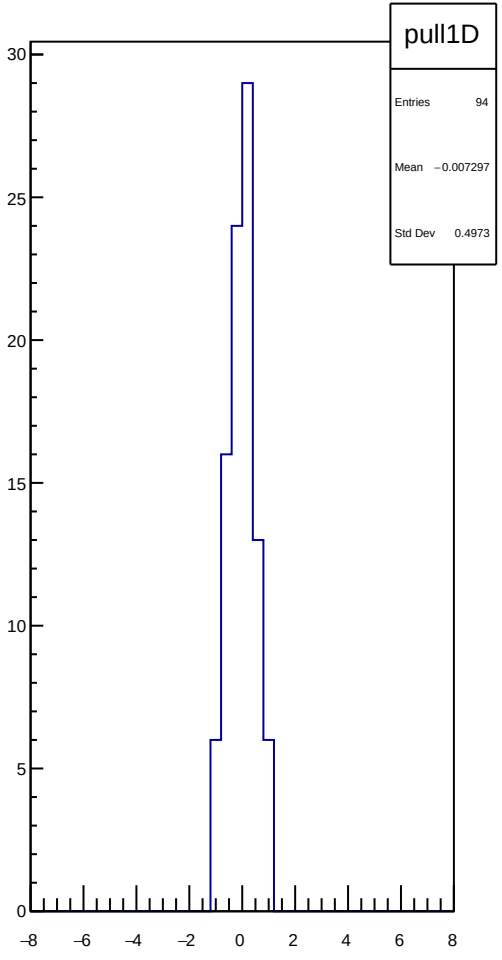

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.94 / 93
p0 21.19 ± 2.927
pull
Entries 94
Mean 55.35
Std Dev 86.65

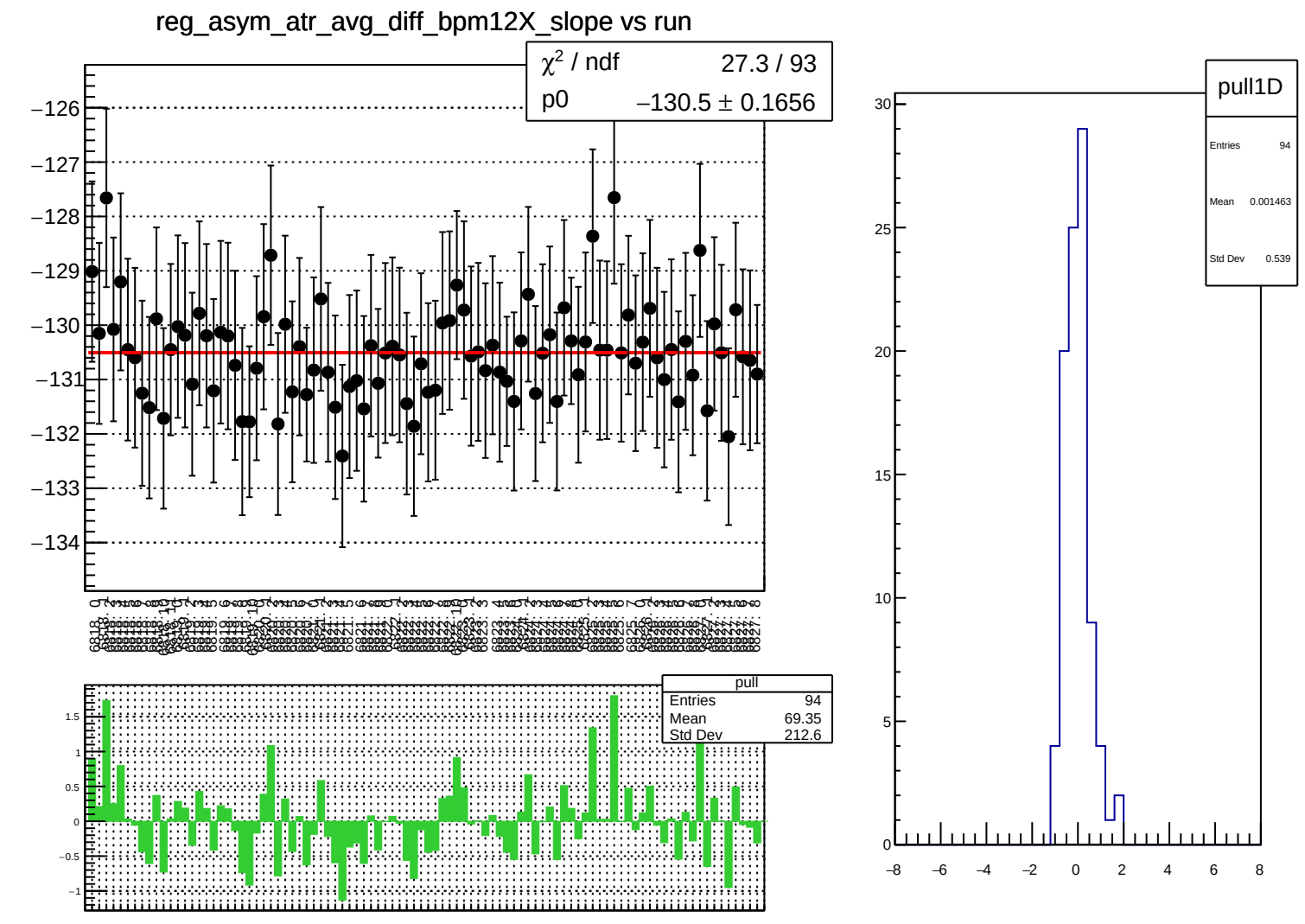

pull1D
Entries 94
Mean 0.008232
Std Dev 0.5046

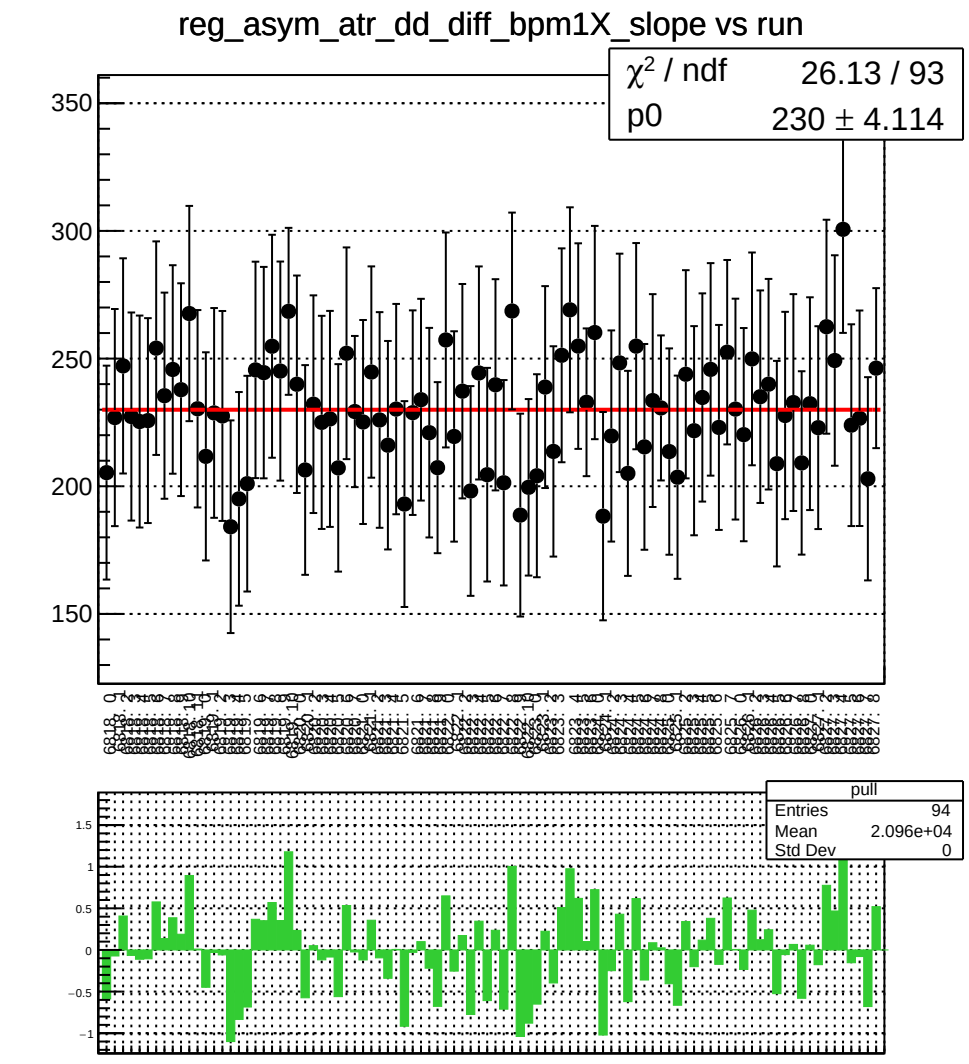

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.77 / 93
p0 288.9 ± 4.083
pull
Entries 94
Mean 1593
Std Dev 0

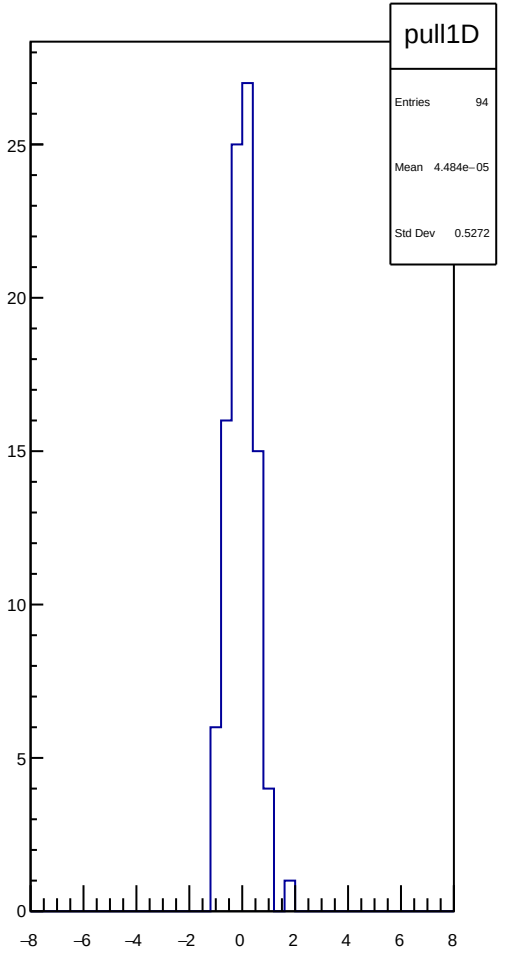

pull1D
Entries 94
Mean 0.0008777
Std Dev 0.5532

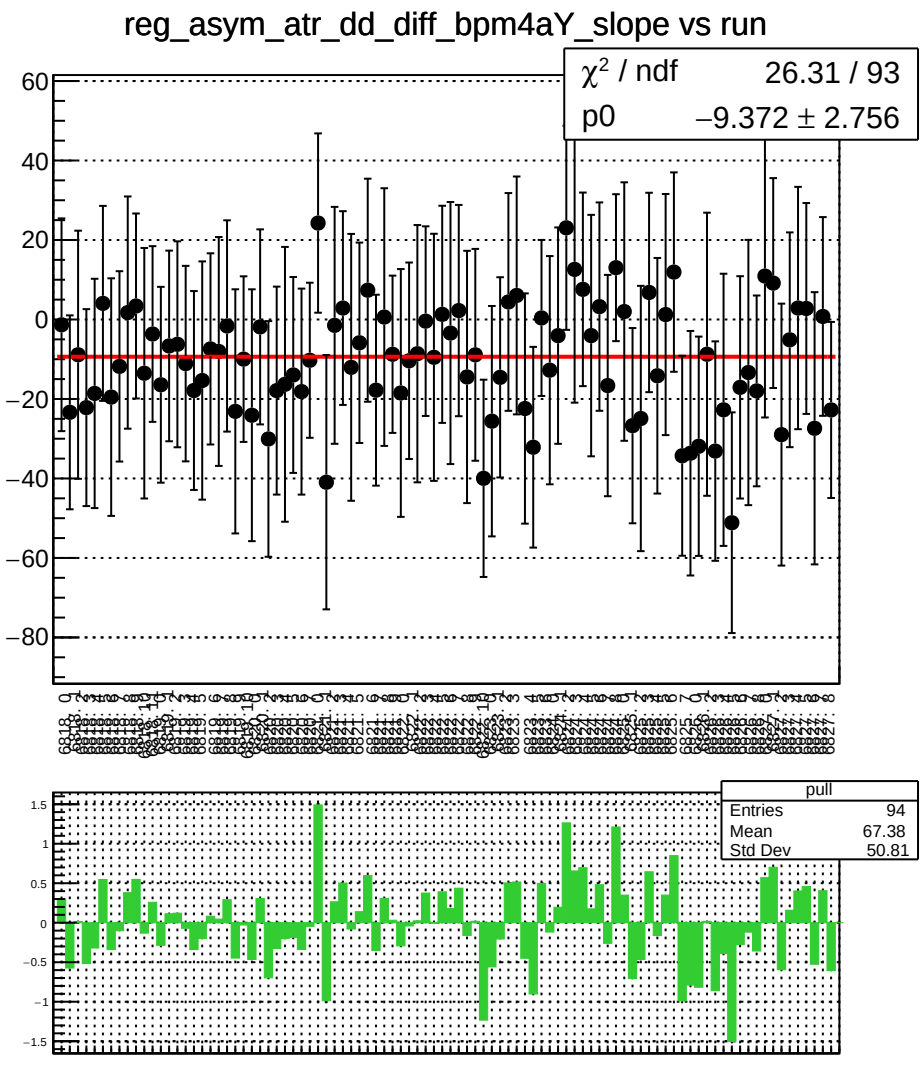

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.26 / 93
p0 28.57 ± 3.386
pull
Entries 94
Mean 132.6
Std Dev 25.67

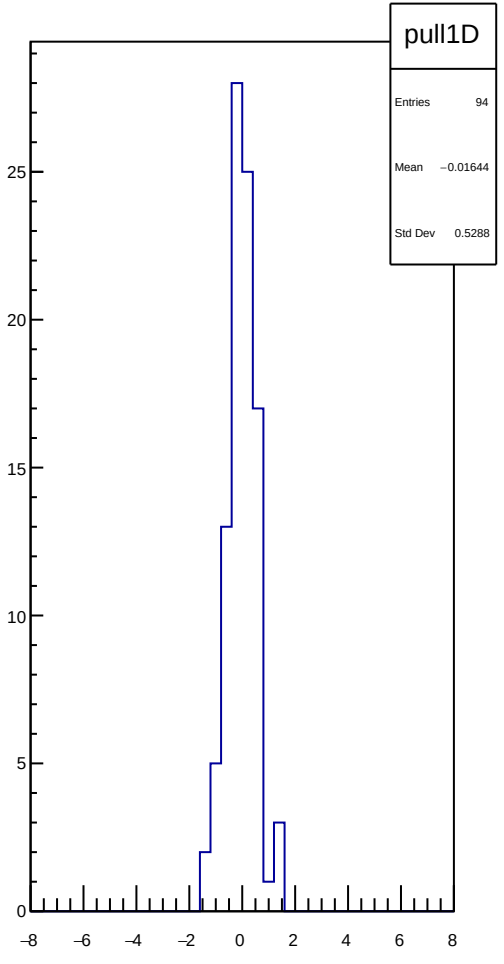

pull1D
Entries 94
Mean −0.007297
Std Dev 0.4973

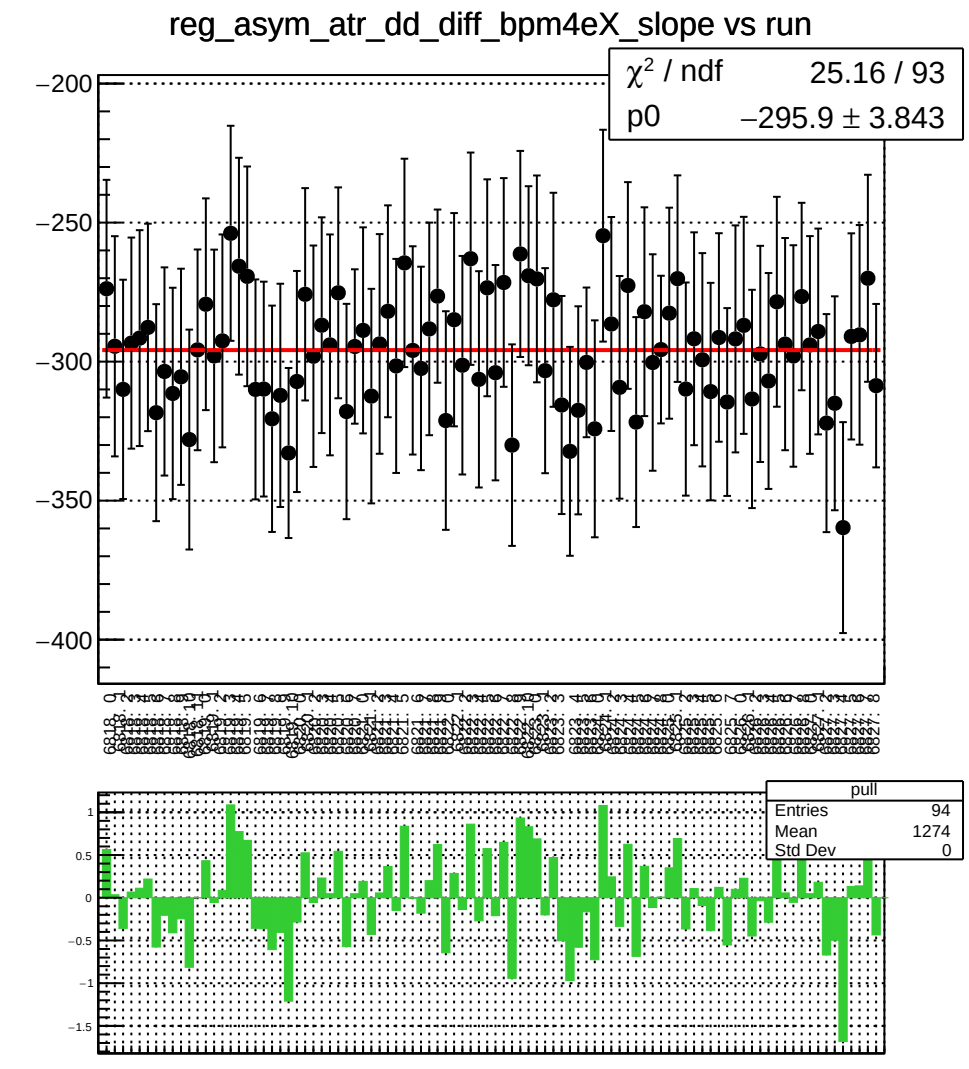

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 27.3 / 93
p0 −130.5 ± 0.1656
pull
Entries 94
Mean 69.35
Std Dev 212.6
pull1D
Entries 94
Mean 0.001463
Std Dev 0.539

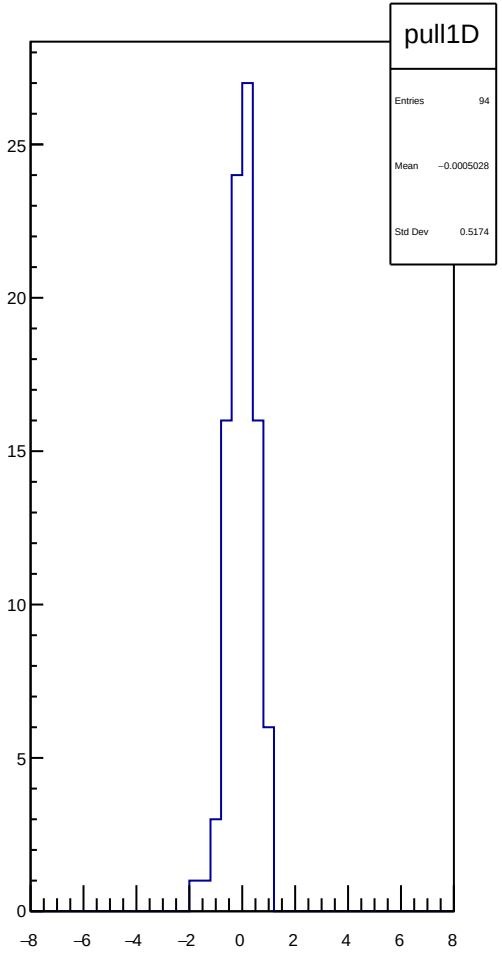

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 26.13 / 93
p0 230 ± 4.114
350
300
250
200
150
pull
Entries 94
Mean 2.096e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1

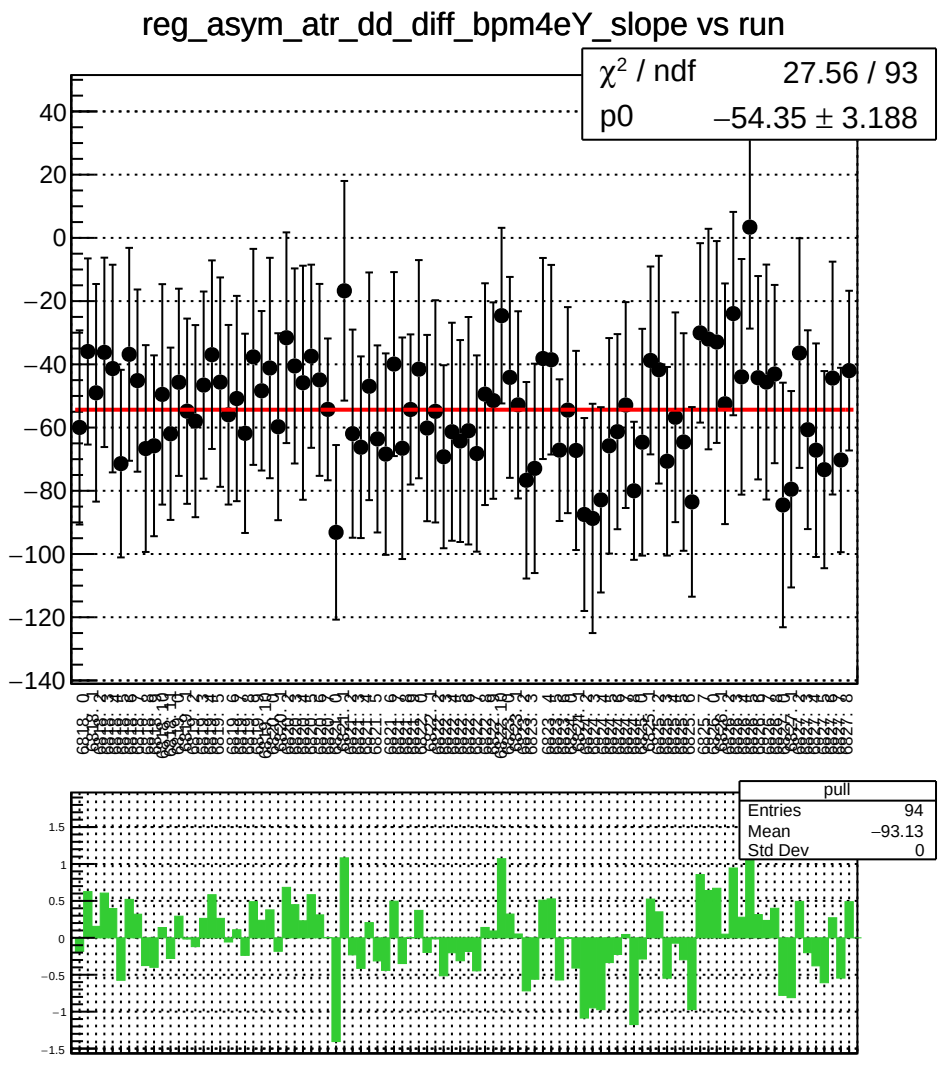

pull1D
Entries 94
Mean 4.484e−05
Std Dev 0.5272
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

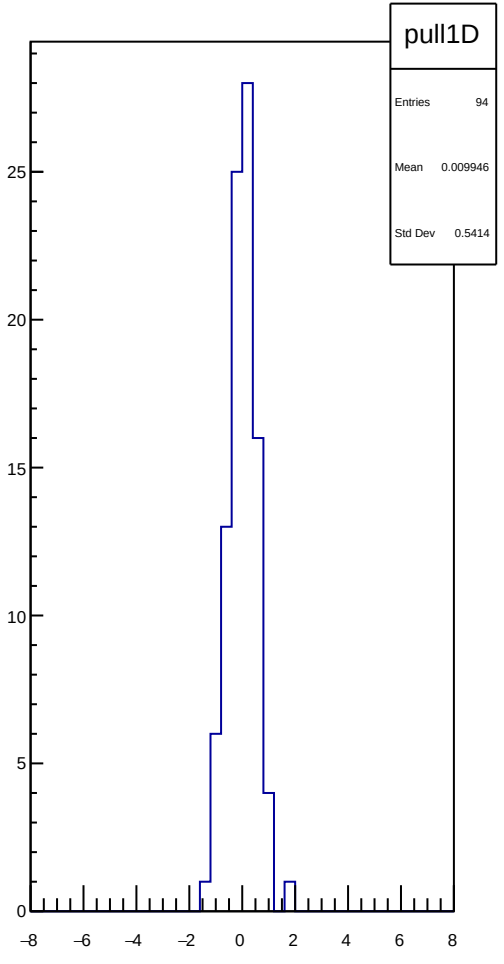

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.31 / 93
p0 −9.372 ± 2.756
pull
Entries 94
Mean 67.38
Std Dev 50.81

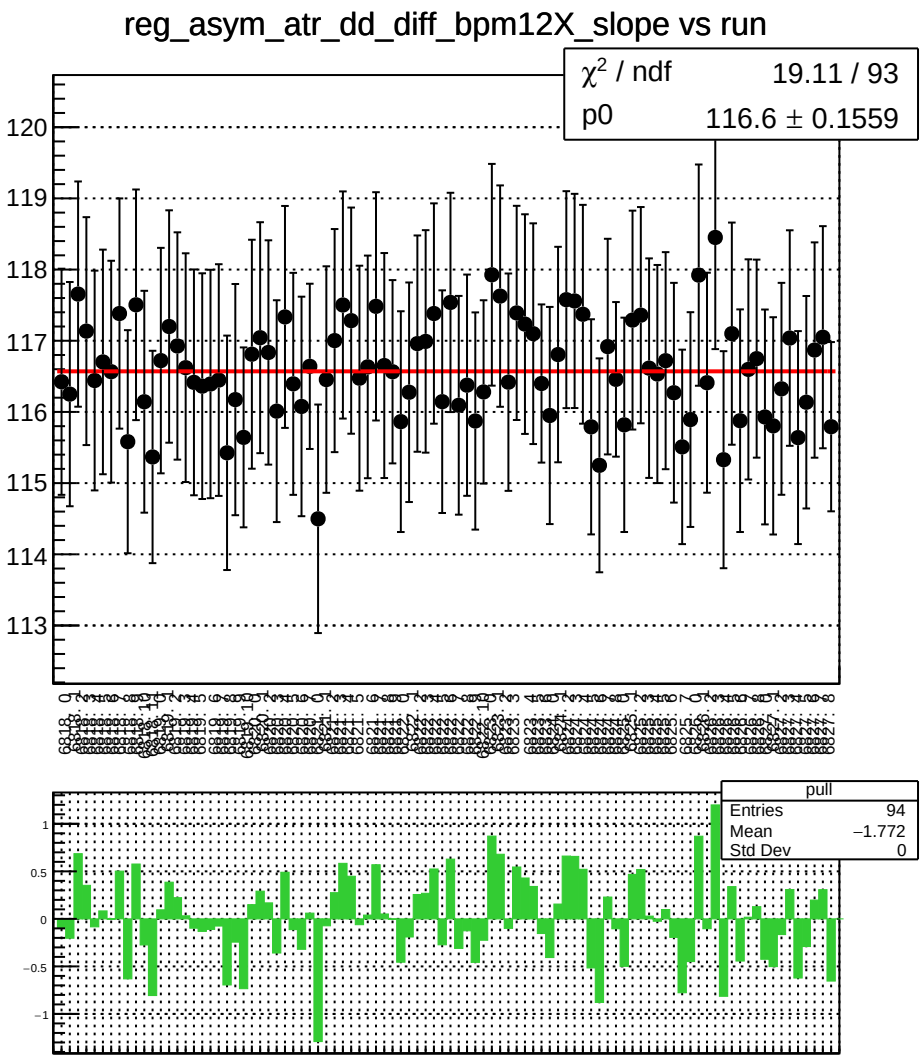

pull1D
Entries 94
Mean −0.01644
Std Dev 0.5288

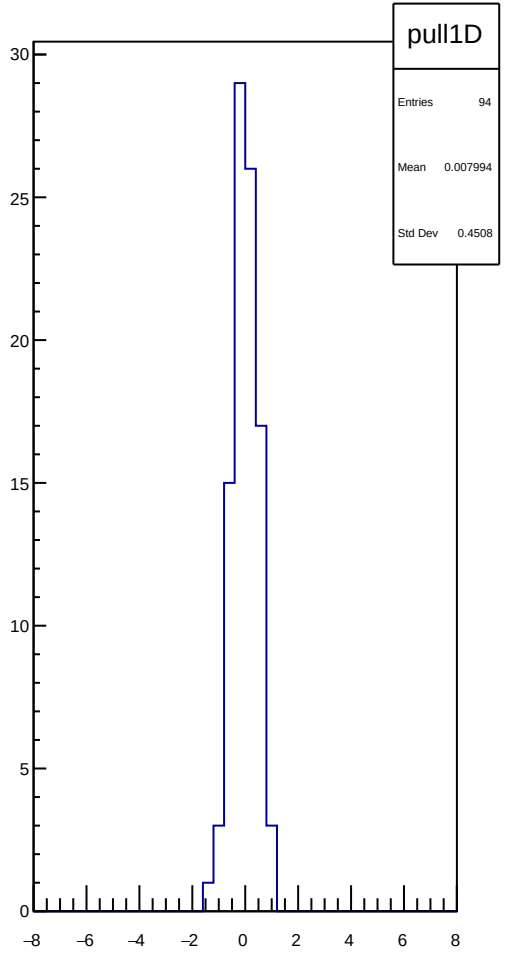

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.16 / 93
p0 −295.9 ± 3.843
−200
−250
−300
−350
−400
pull
Entries 94
Mean 1274
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

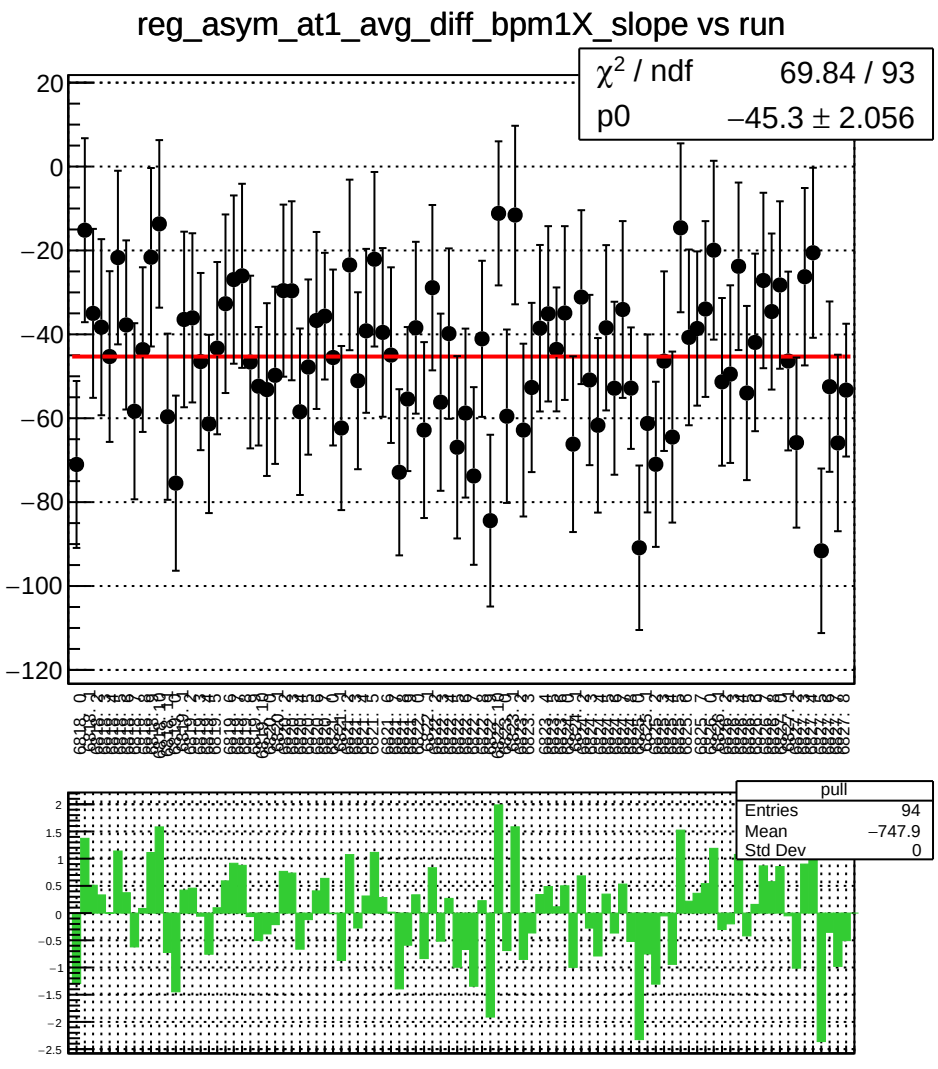

pull1D
Entries 94
Mean −0.0005028
Std Dev 0.5174
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

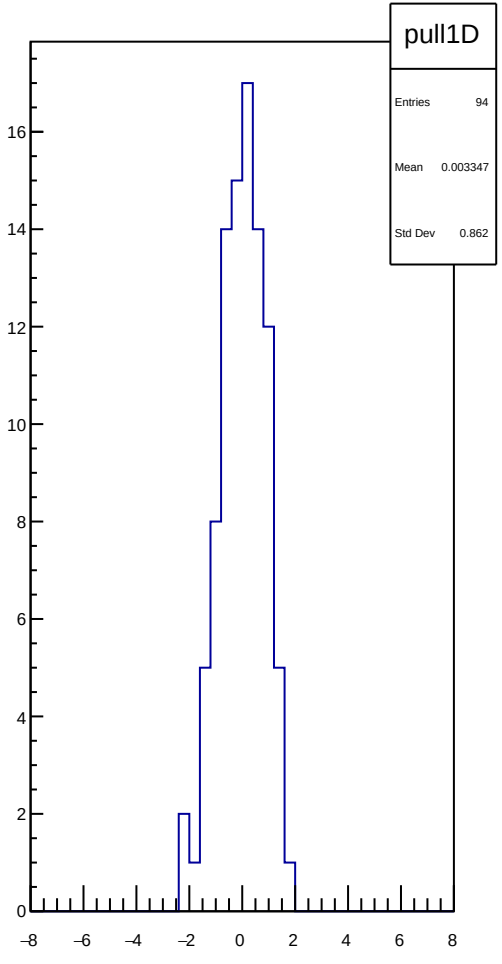

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.56 / 93
p0 −54.35 ± 3.188
pull
Entries 94
Mean −93.13
Std Dev 0

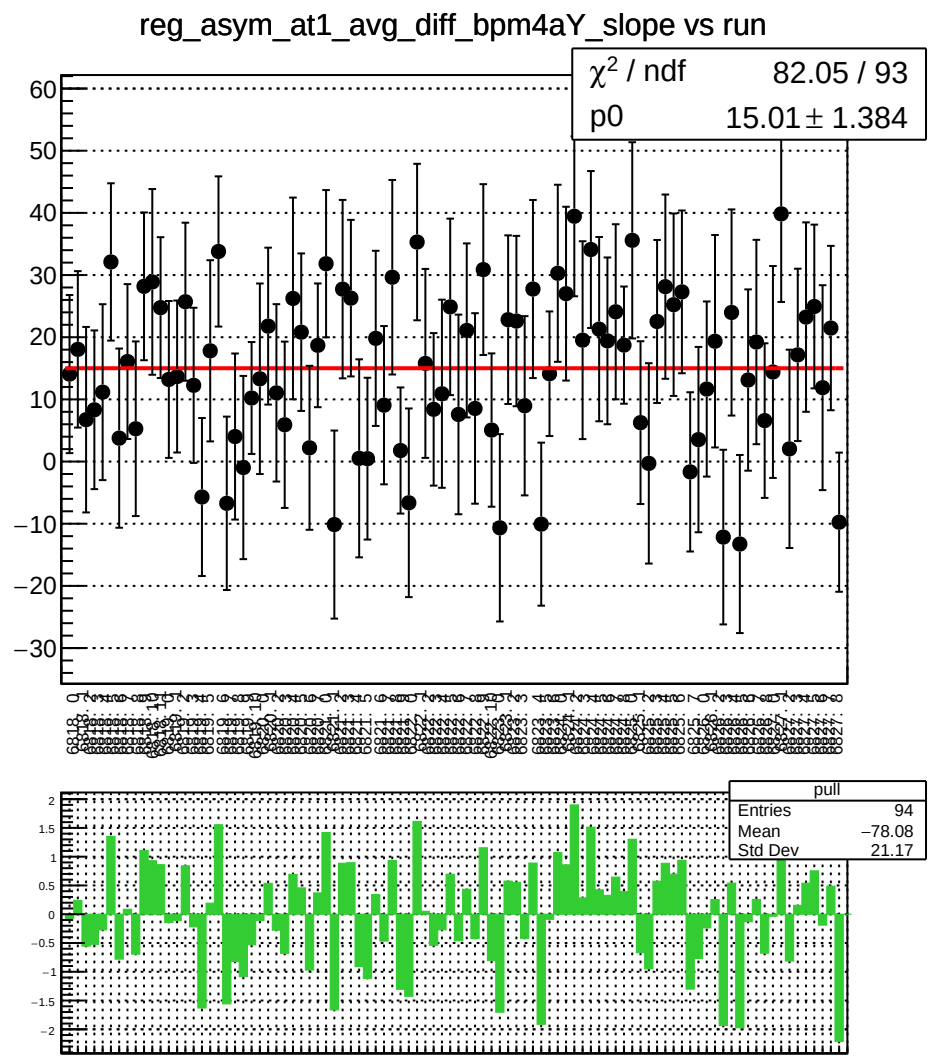

pull1D
Entries 94
Mean 0.009946
Std Dev 0.5414

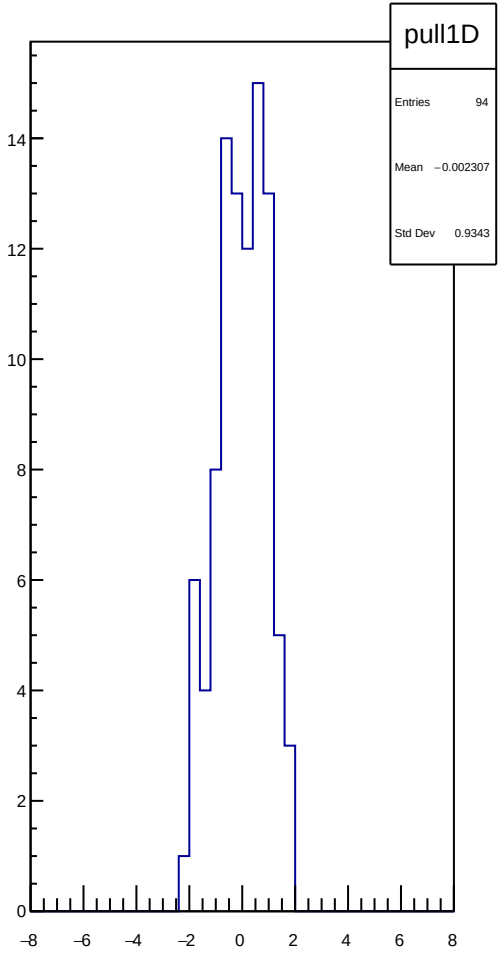

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 19.11 / 93
p0 116.6 ± 0.1559
120
119
118
117
116
115
114
113
pull
Entries 94
Mean −1.772
Std Dev 0
1
0.5
0
−0.5
−1

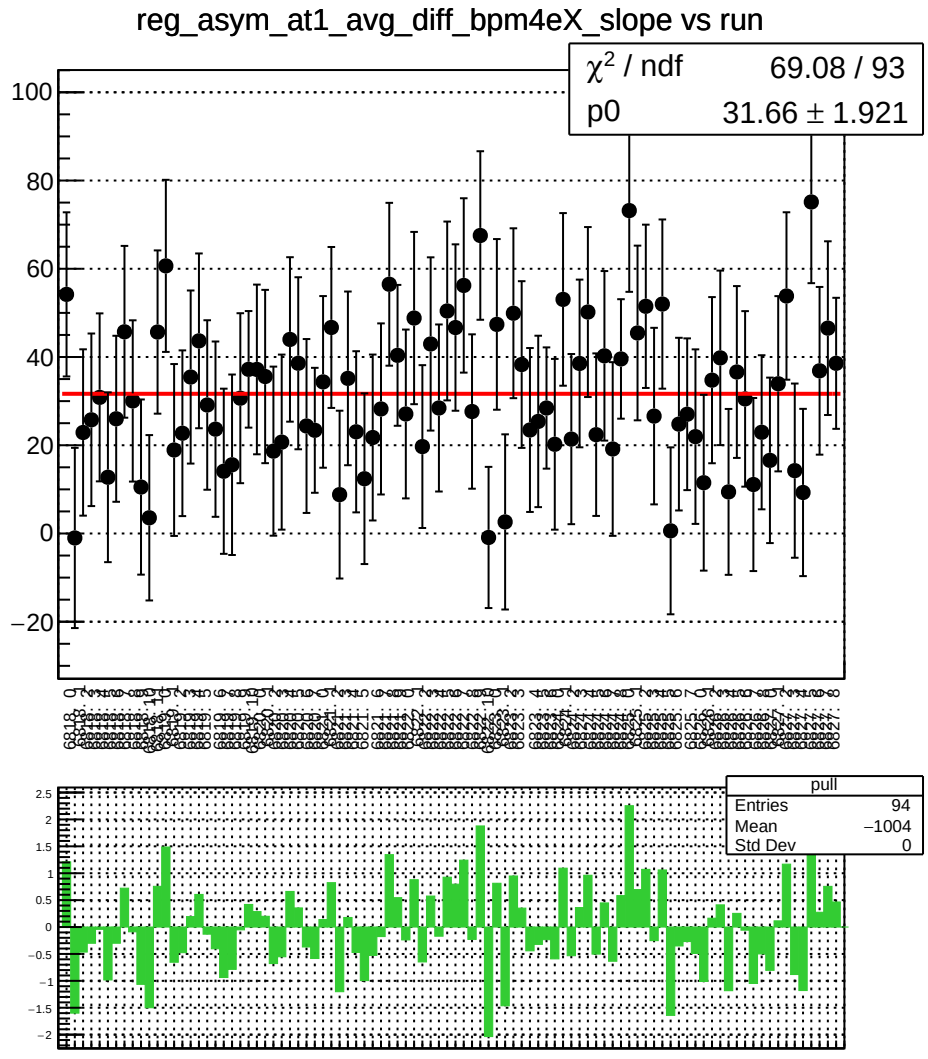

pull1D
Entries 94
Mean 0.007994
Std Dev 0.4508
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

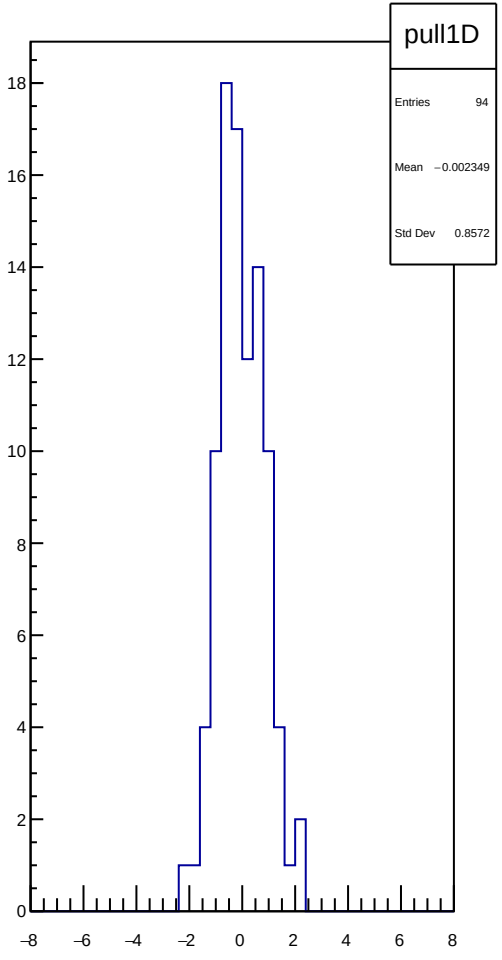

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 69.84 / 93
p0 −45.3 ± 2.056
pull
Entries 94
Mean −747.9
Std Dev 0

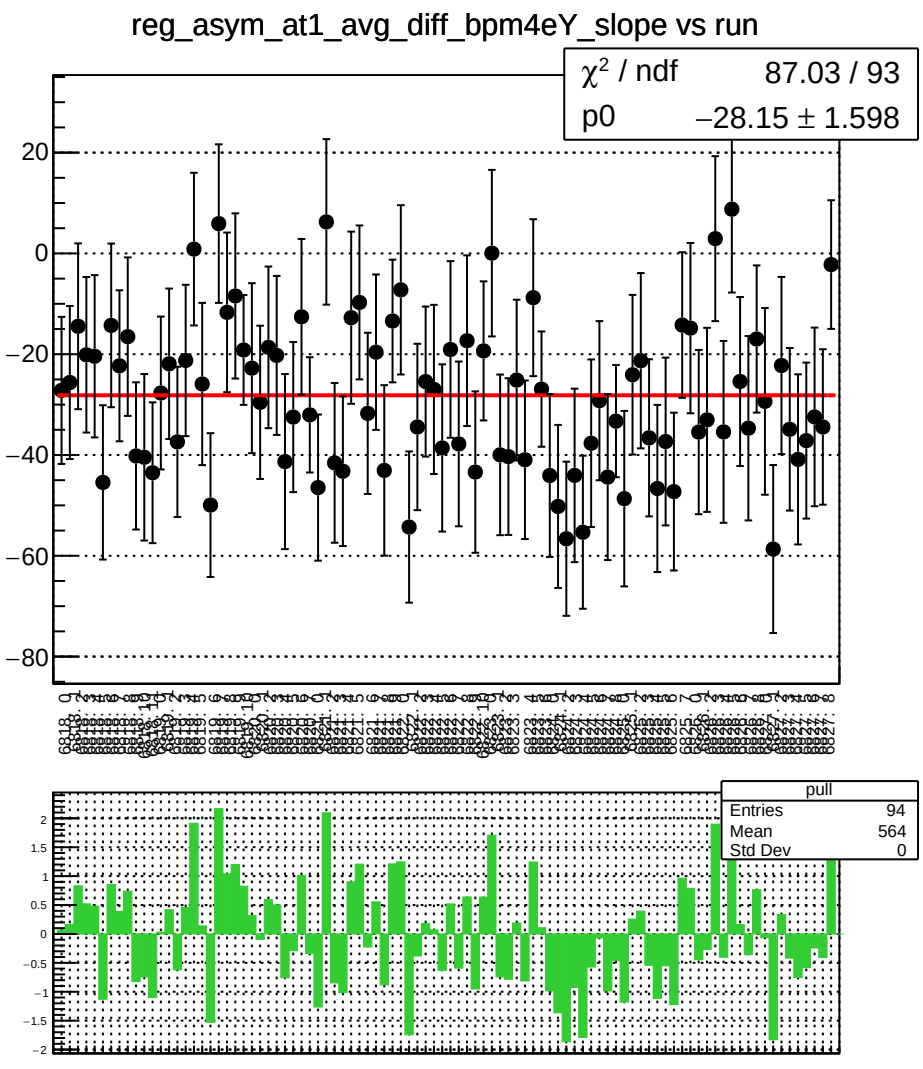

pull1D
Entries 94
Mean 0.003347
Std Dev 0.862

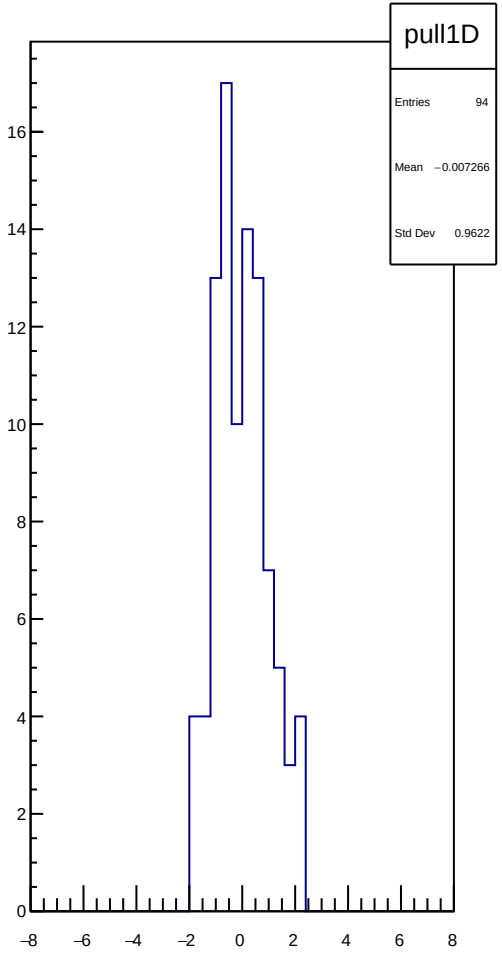

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 82.05 / 93
p0 15.01 ± 1.384
pull
Entries 94
Mean −78.08
Std Dev 21.17

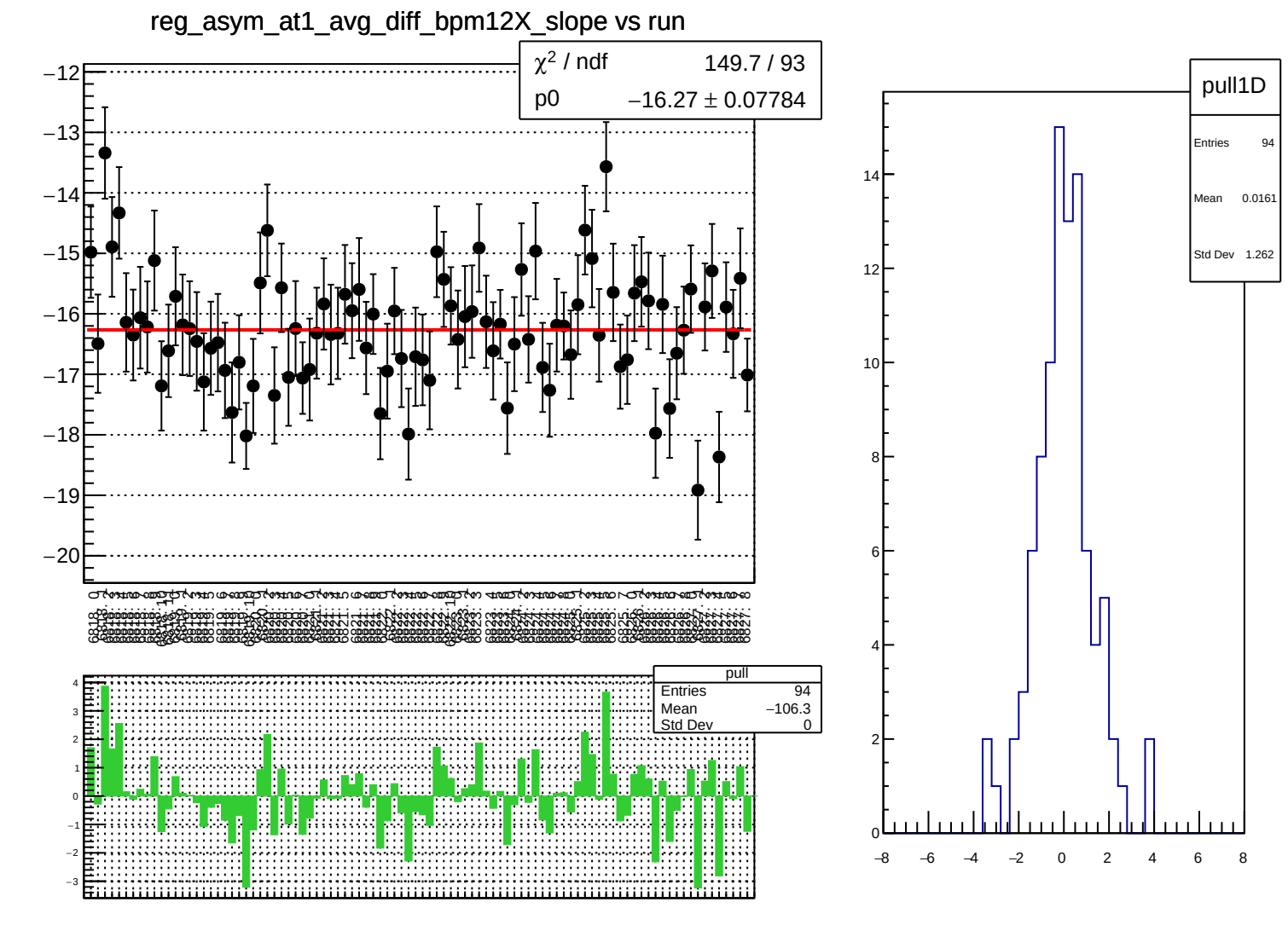

pull1D
Entries 94
Mean −0.002307
Std Dev 0.9343

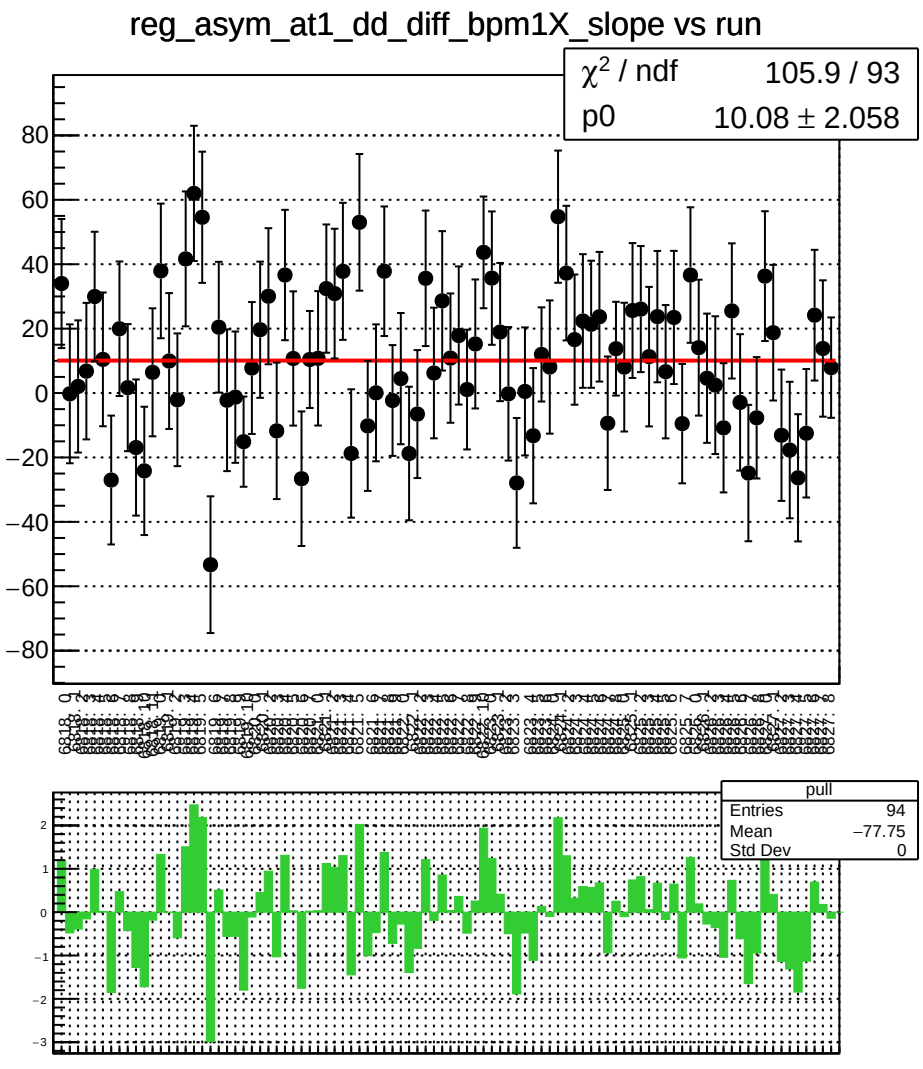

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 69.08 / 93
p0 31.66 ± 1.921
pull
Entries 94
Mean −1004
Std Dev 0

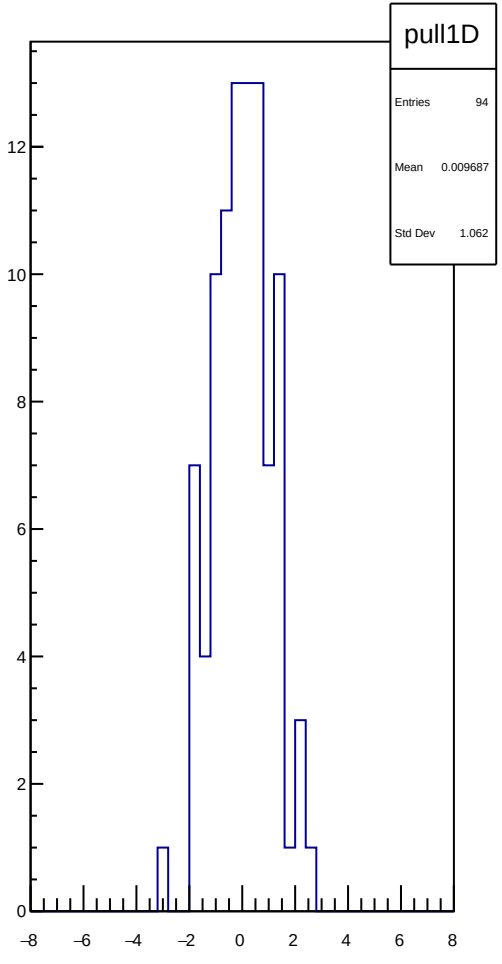

pull1D
Entries 94
Mean −0.002349
Std Dev 0.8572

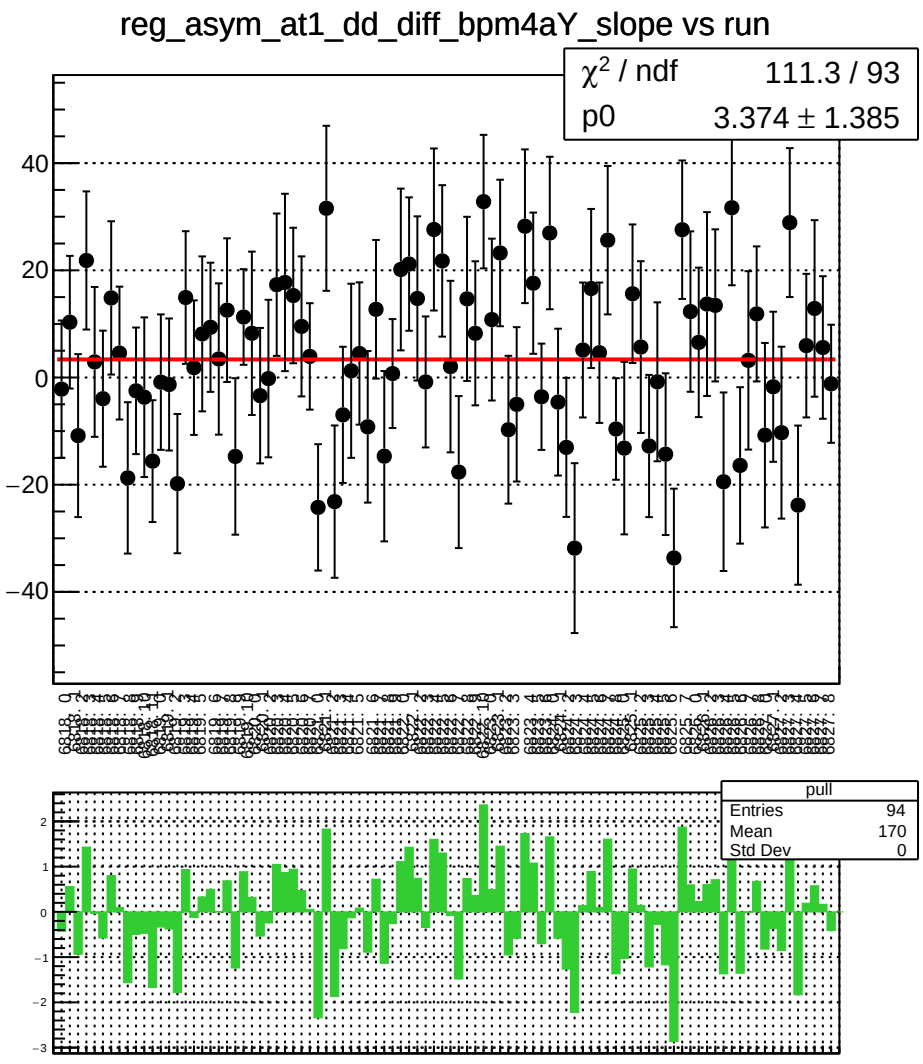

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 87.03 / 93
p0 −28.15 ± 1.598
pull
Entries 94
Mean 564
Std Dev 0

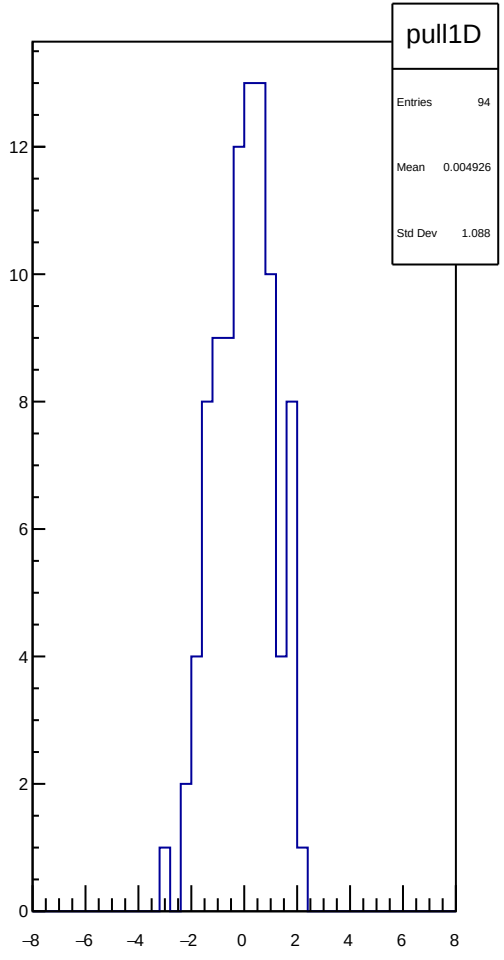

pull1D
Entries 94
Mean −0.007266
Std Dev 0.9622

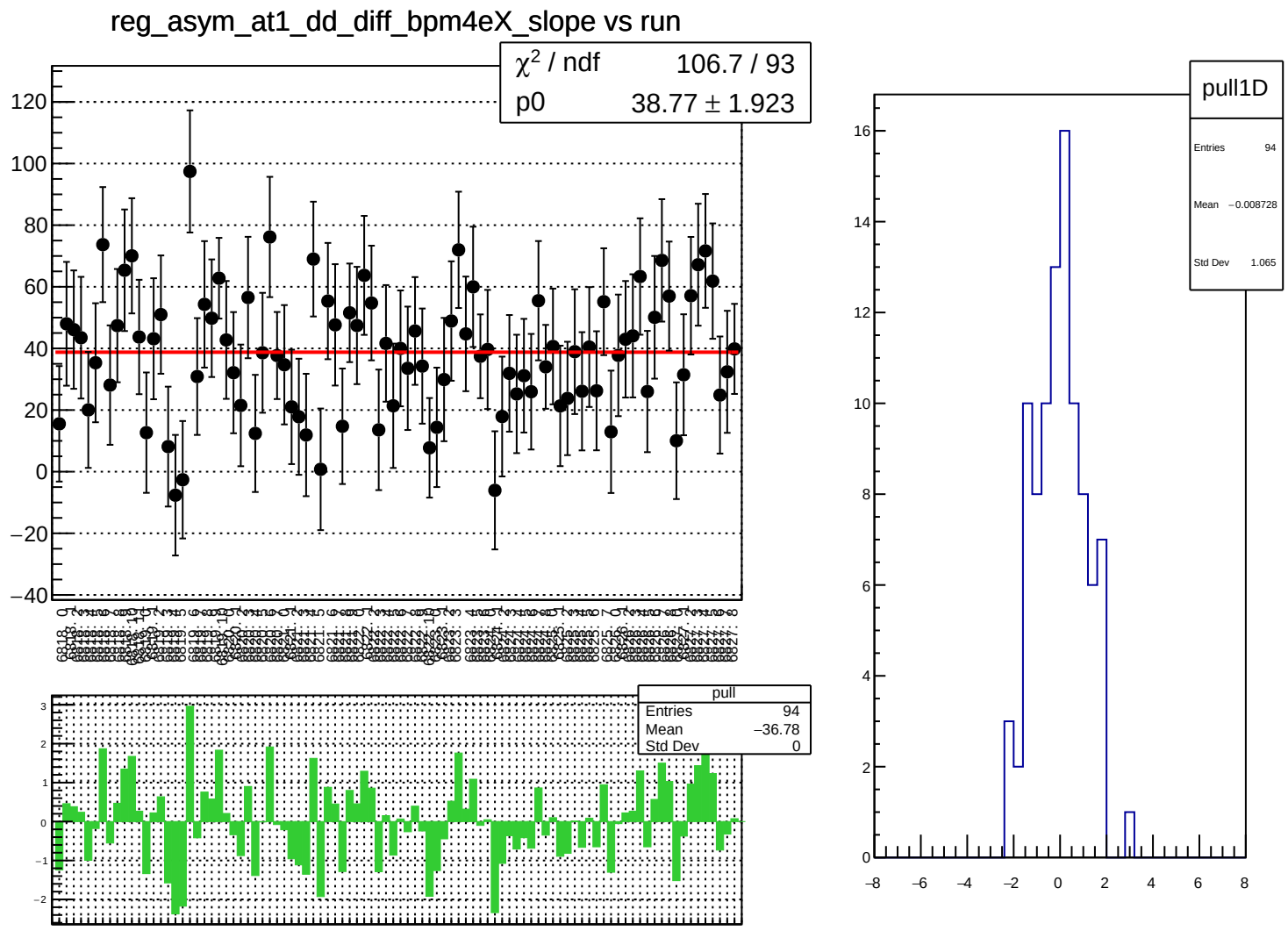

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 149.7 / 93
p0 −16.27 ± 0.07784
pull
Entries 94
Mean −106.3
Std Dev 0
pull1D
Entries 94
Mean 0.0161
Std Dev 1.262

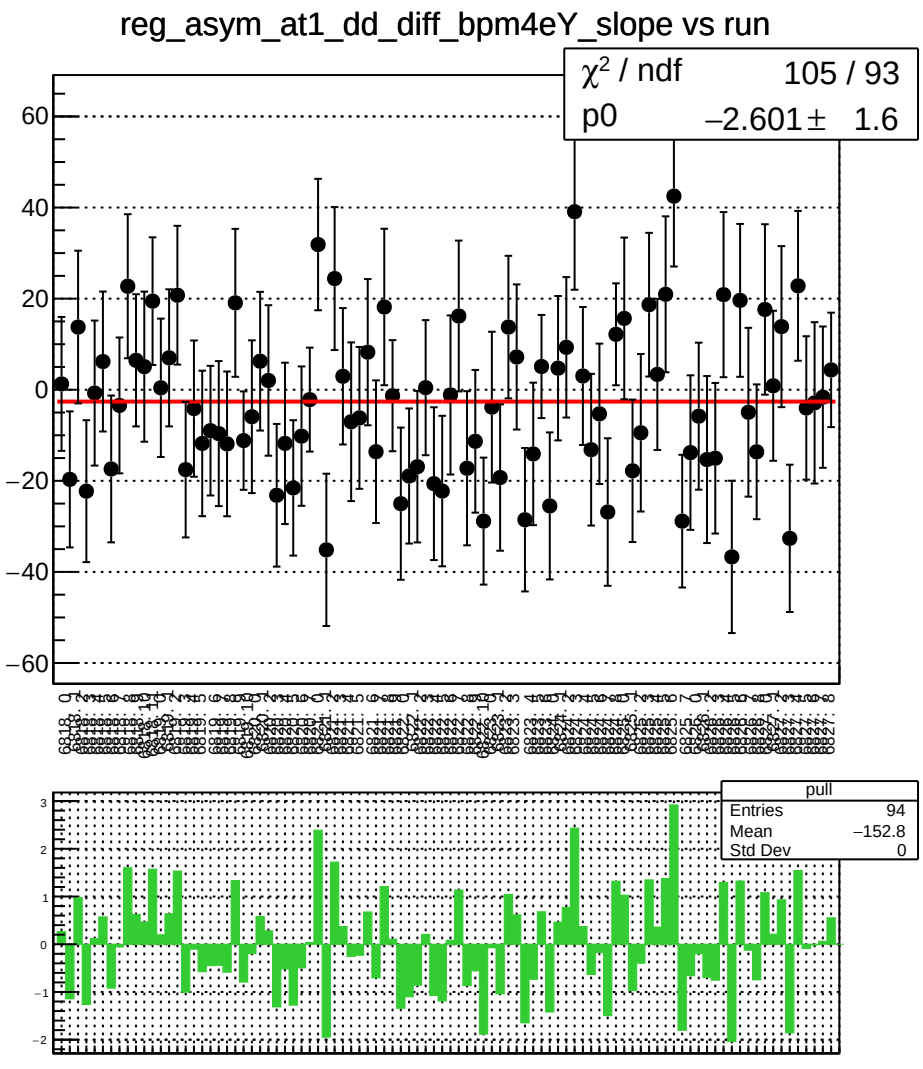

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 105.9 / 93
p0 10.08 ± 2.058
pull
Entries 94
Mean −77.75
Std Dev 0

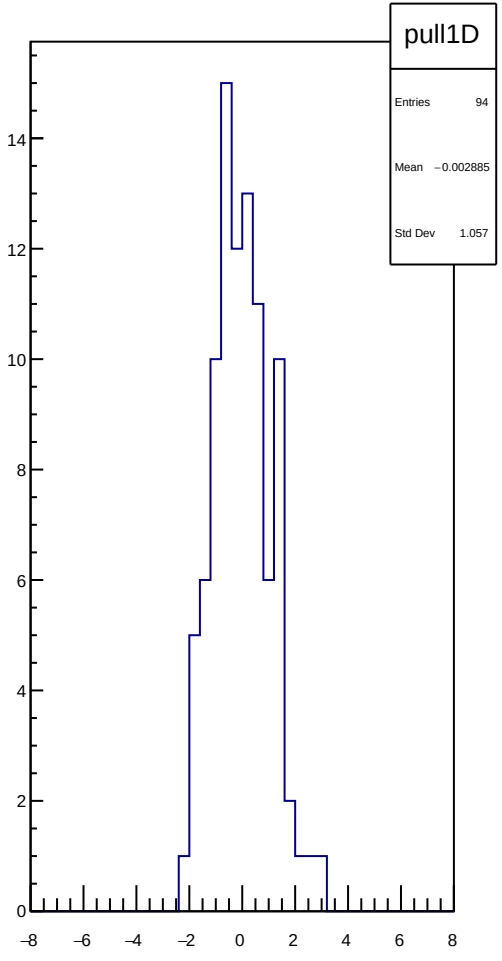

pull1D
Entries 94
Mean 0.009687
Std Dev 1.062

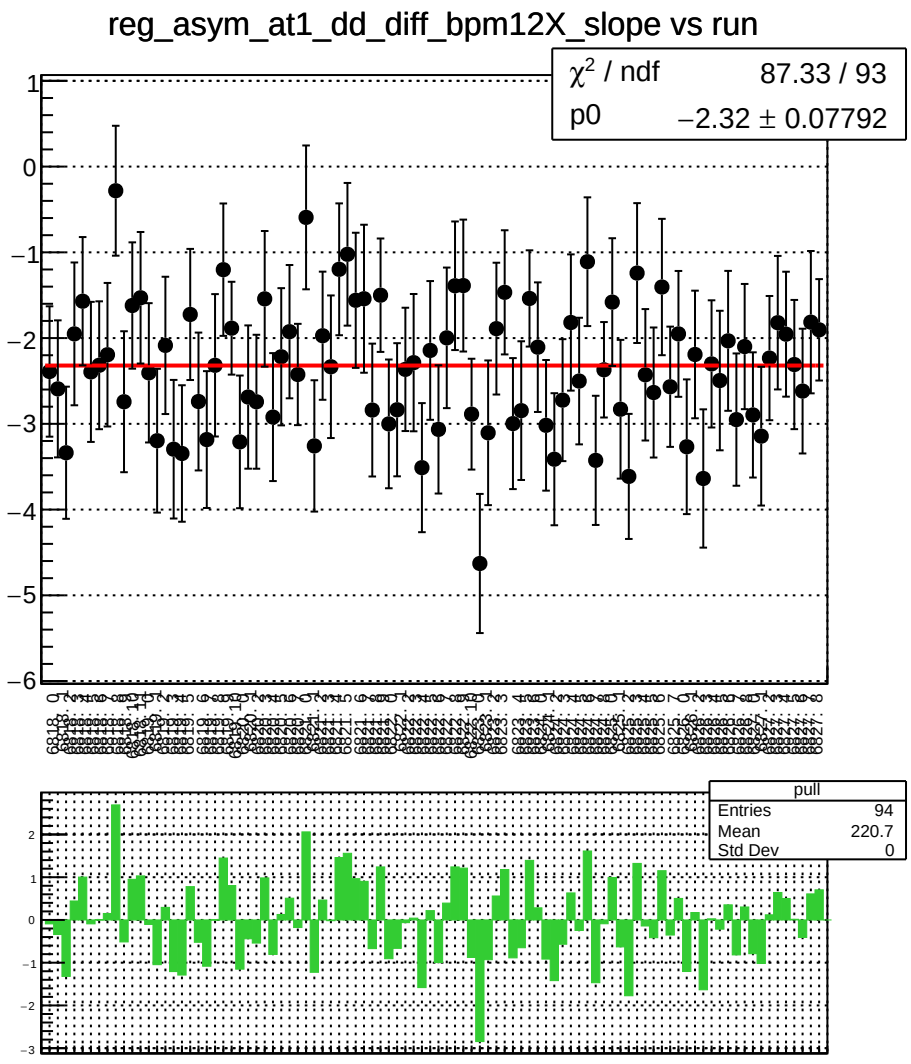

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 111.3 / 93
p0 3.374 ± 1.385
40
20
0
−20
−40
pull
Entries 94
Mean 170
Std Dev 0
2
1
0
−1
−2
−3

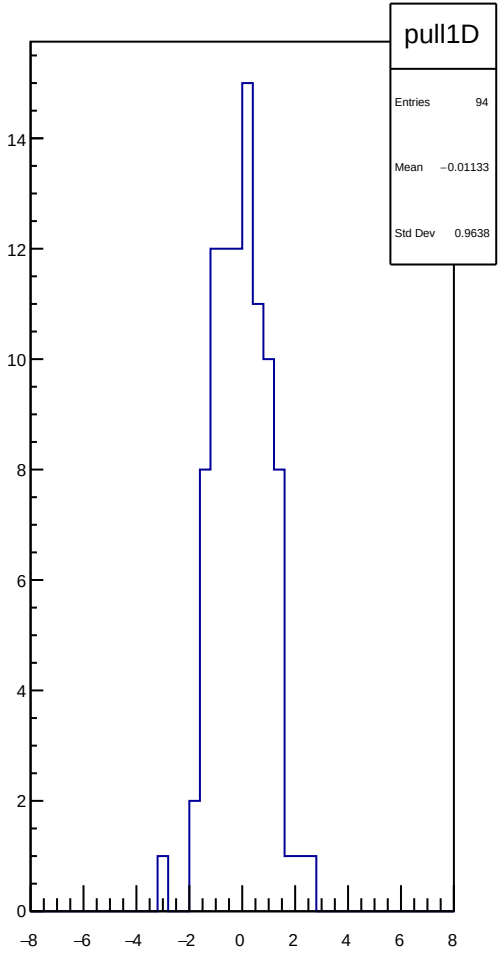

pull1D
Entries 94
Mean 0.004926
Std Dev 1.088
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

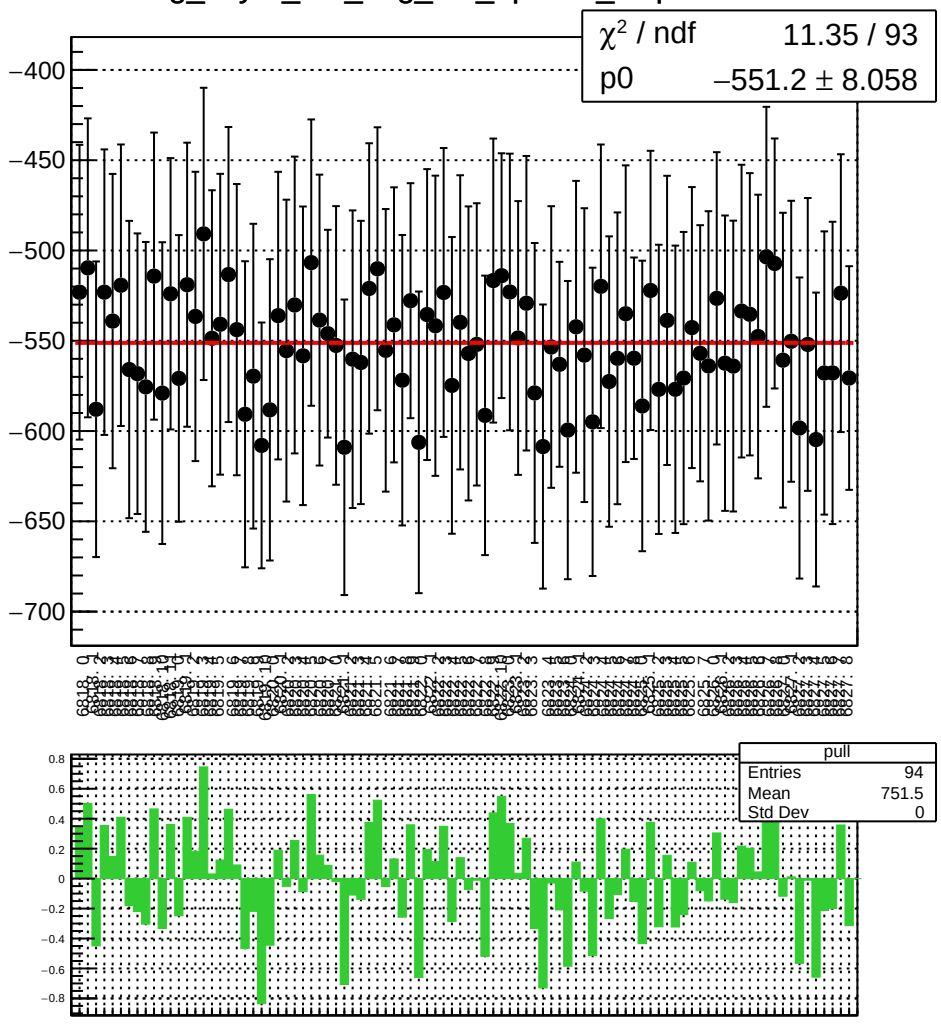

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 106.7 / 93
p0 38.77 ± 1.923
pull
Entries 94
Mean −36.78
Std Dev 0
pull1D
Entries 94
Mean −0.008728
Std Dev 1.065

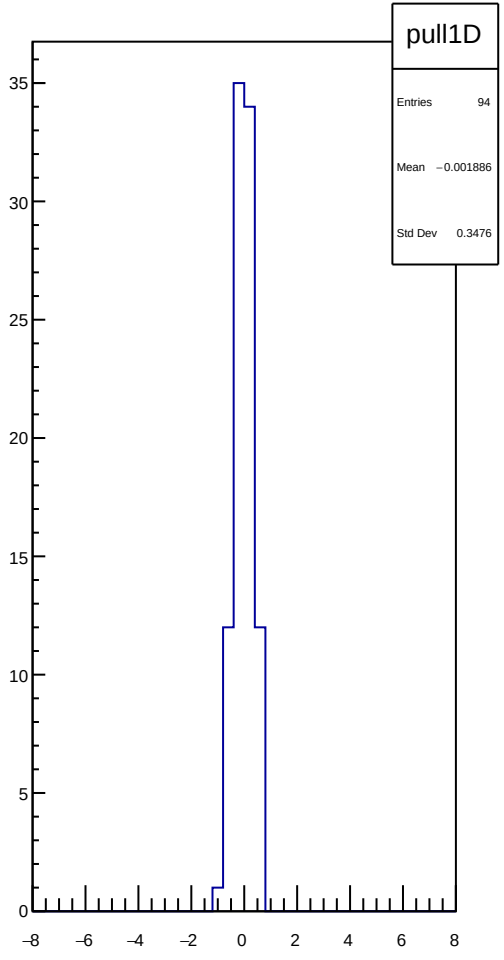

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 105 / 93
p0 −2.601 ± 1.6
pull
Entries 94
Mean −152.8
Std Dev 0

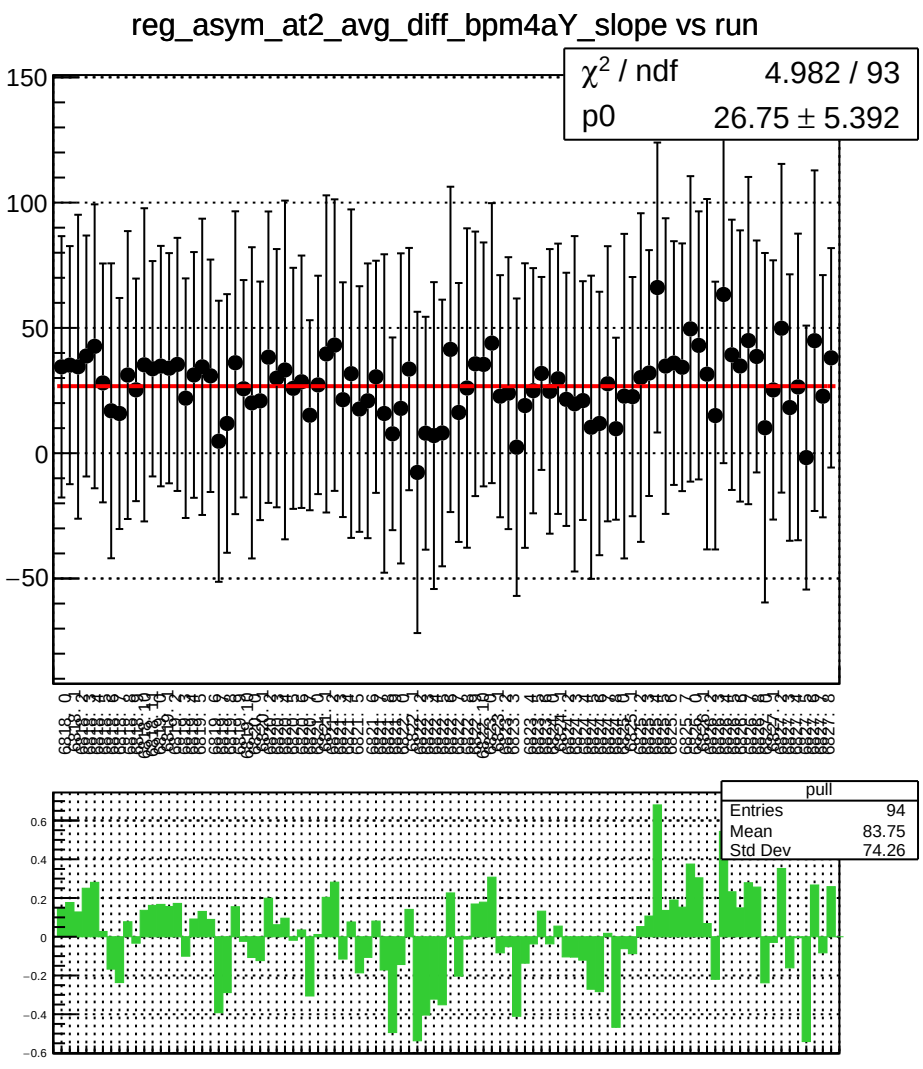

pull1D
Entries 94
Mean −0.002885
Std Dev 1.057

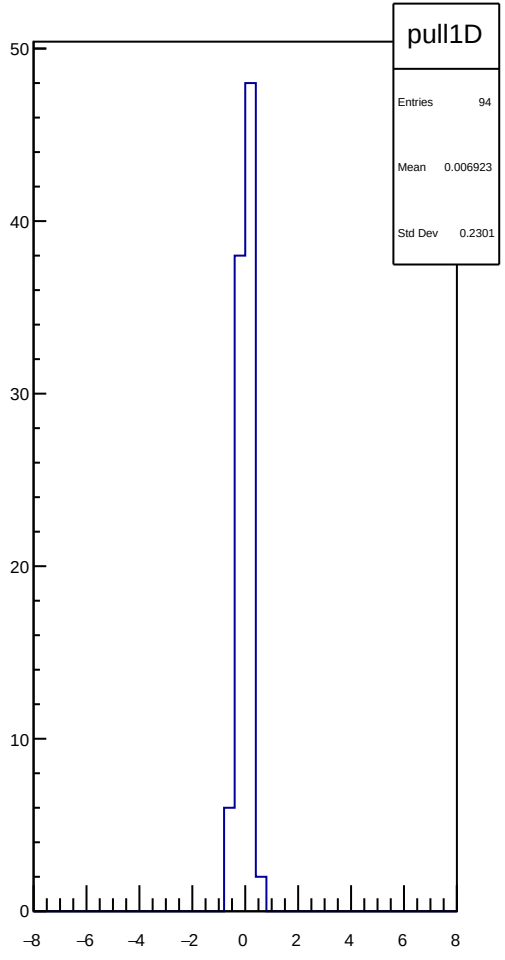

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 87.33 / 93
p0 −2.32 ± 0.07792
pull
Entries 94
Mean 220.7
Std Dev 0

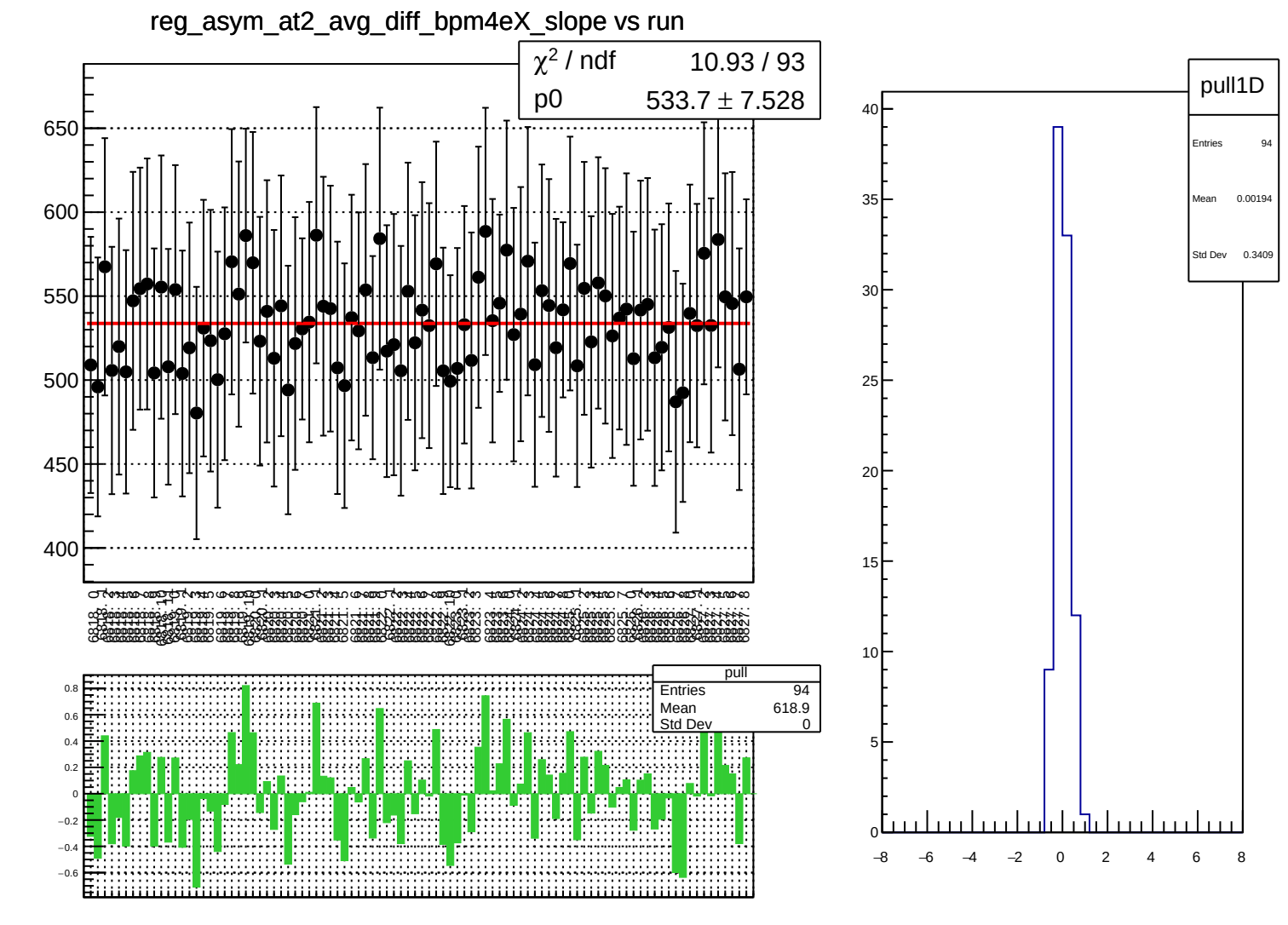

pull1D
Entries 94
Mean −0.01133
Std Dev 0.9638

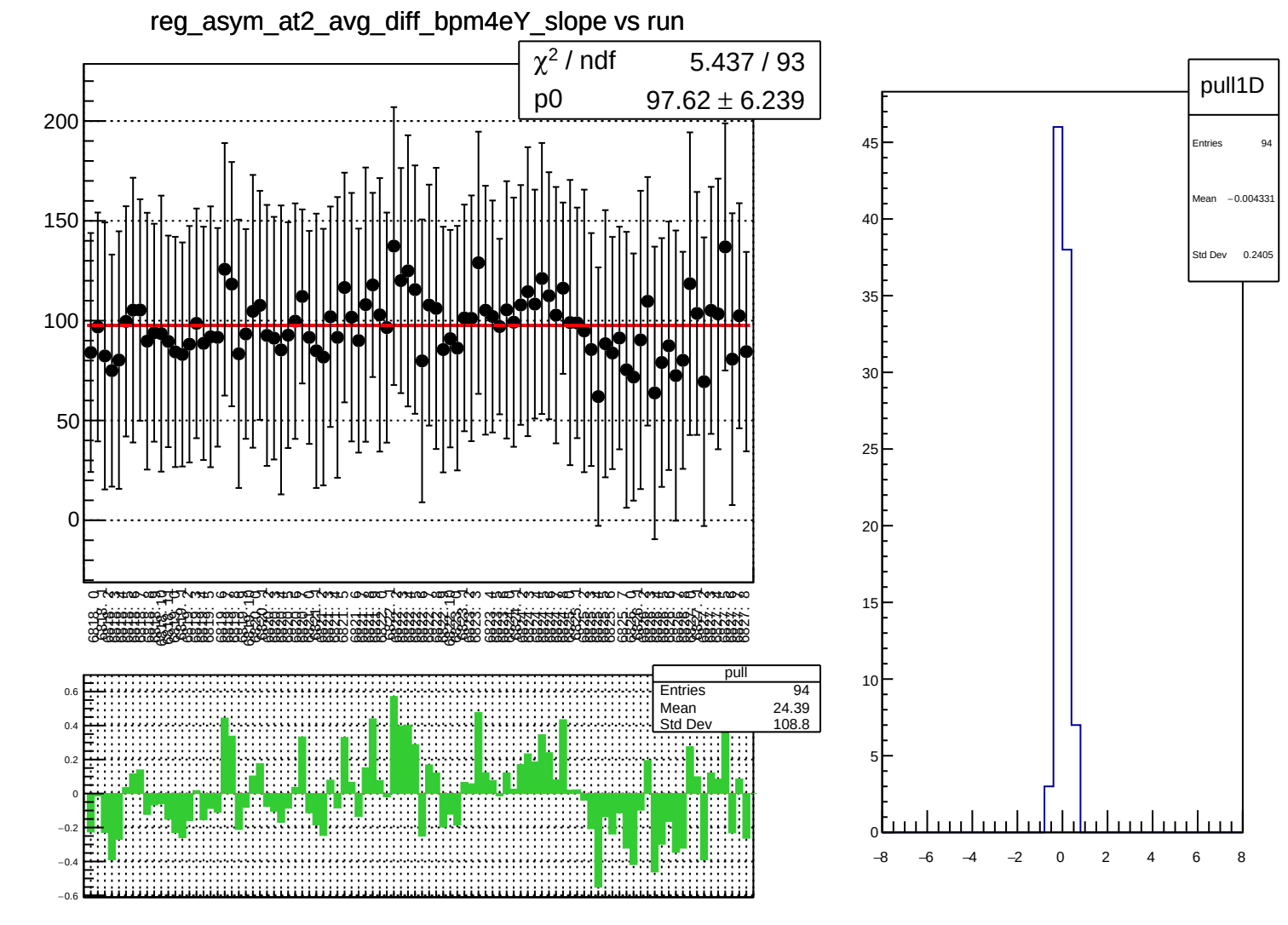

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 11.35 / 93
p0 −551.2 ± 8.058
−400
−450
−500
−550
−600
−650
−700
pull
Entries 94
Mean 751.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

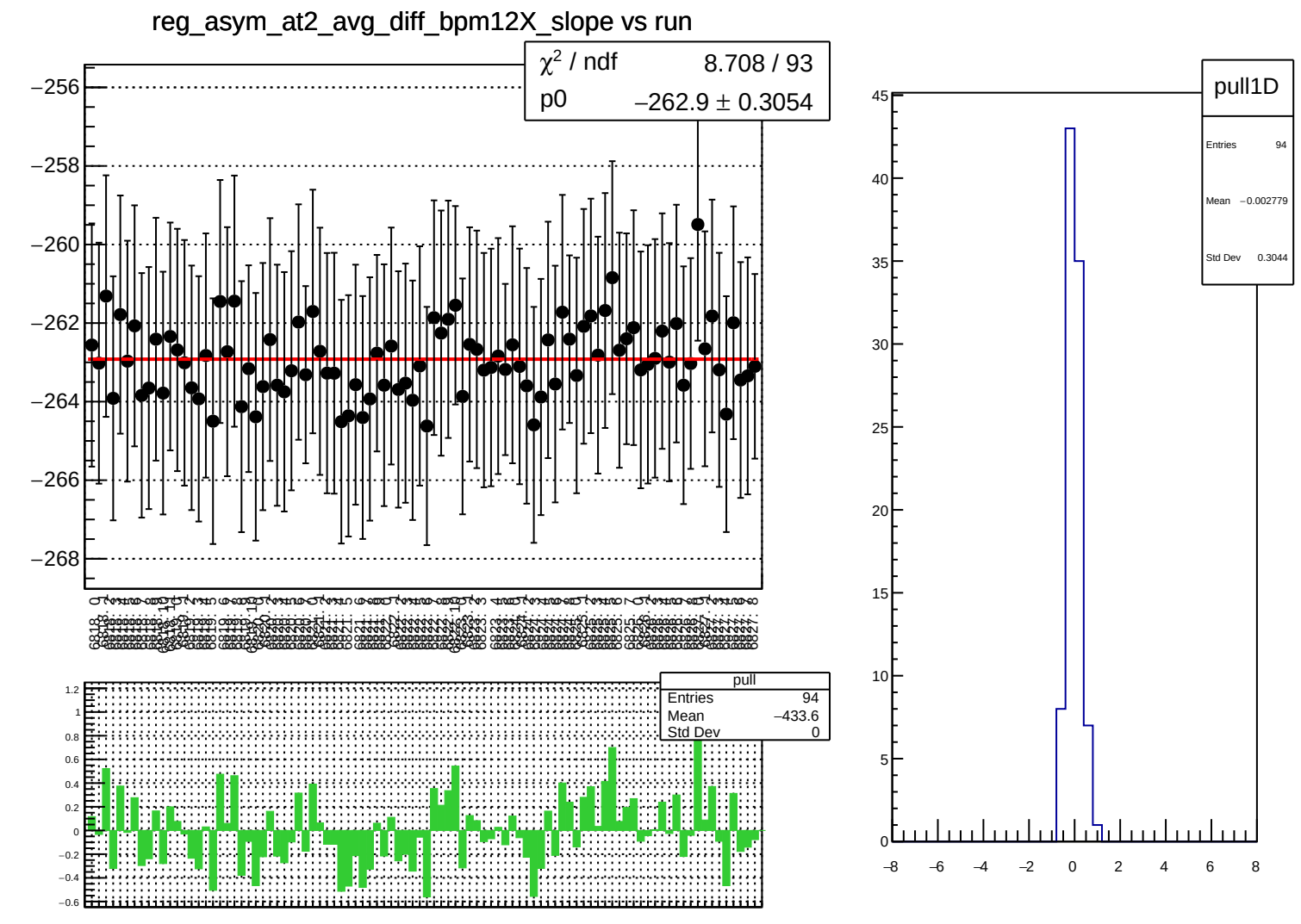

pull1D
Entries 94
Mean −0.001886
Std Dev 0.3476
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

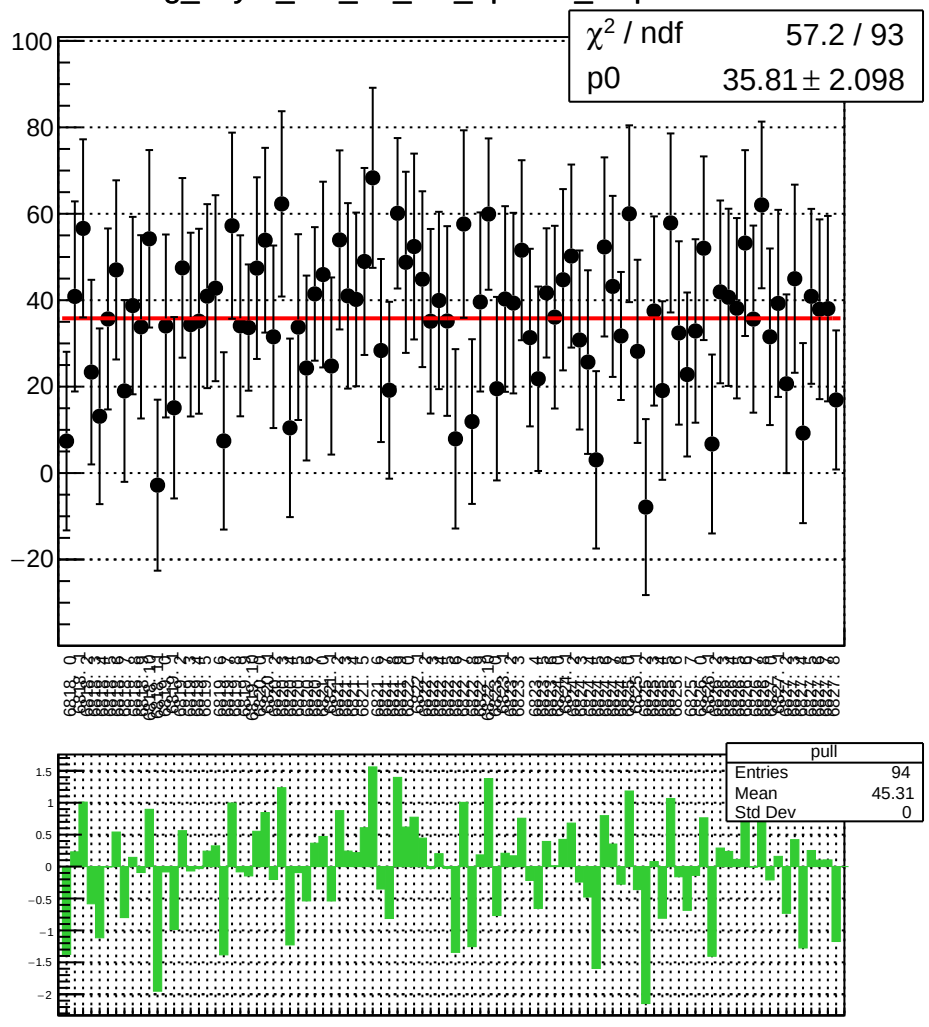

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.982 / 93
p0 26.75 ± 5.392
150
100
50
0
−50
pull
Entries 94
Mean 83.75
Std Dev 74.26
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

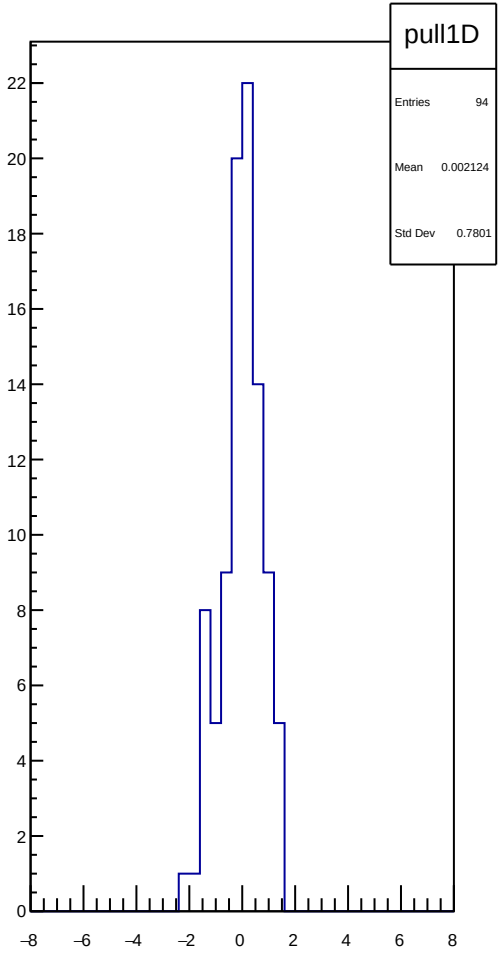

pull1D
Entries 94
Mean 0.006923
Std Dev 0.2301
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

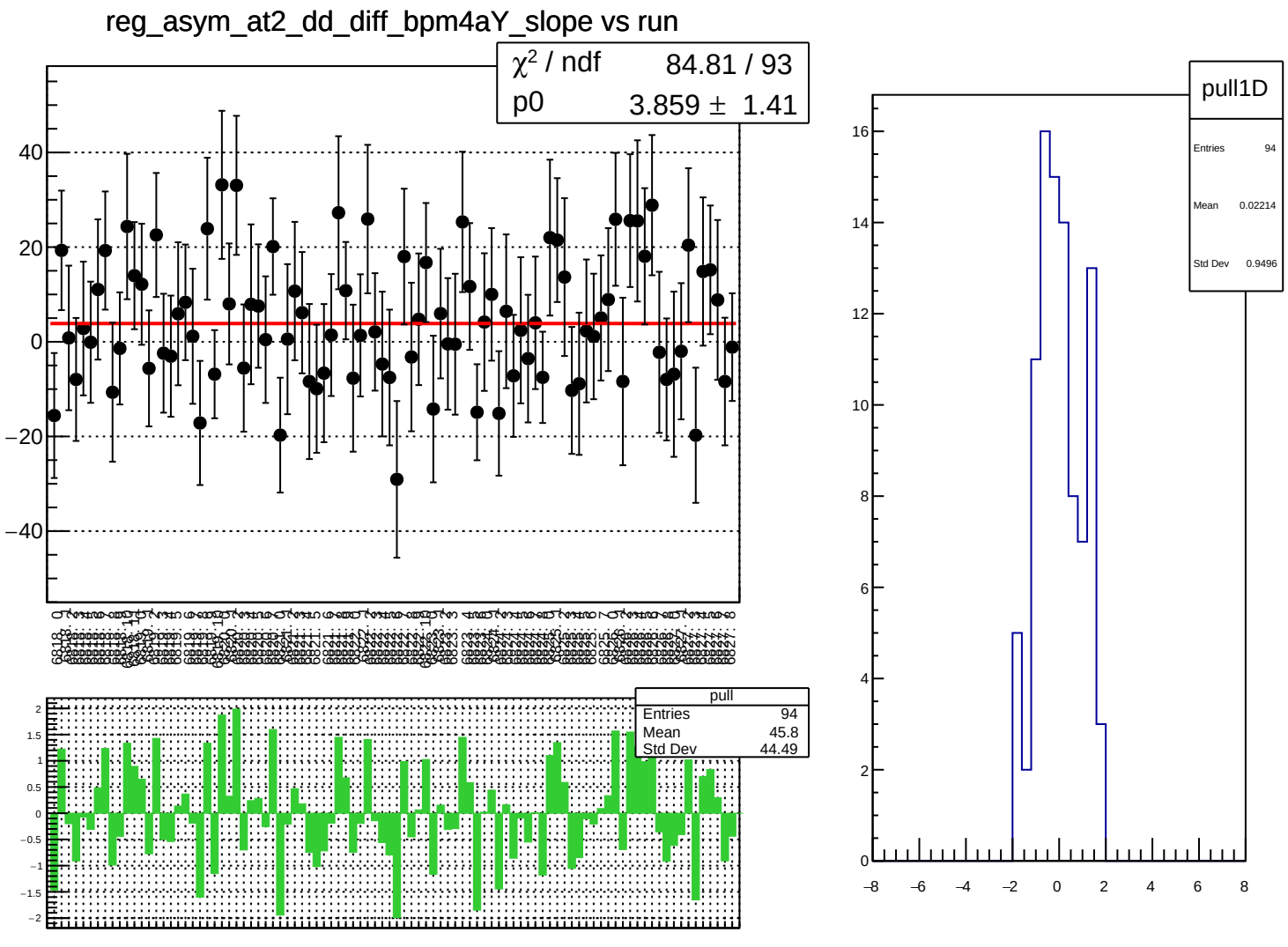

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.93 / 93
p0 533.7 ± 7.528
650
600
550
500
450
400
pull
Entries 94
Mean 618.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.00194
Std Dev 0.3409
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

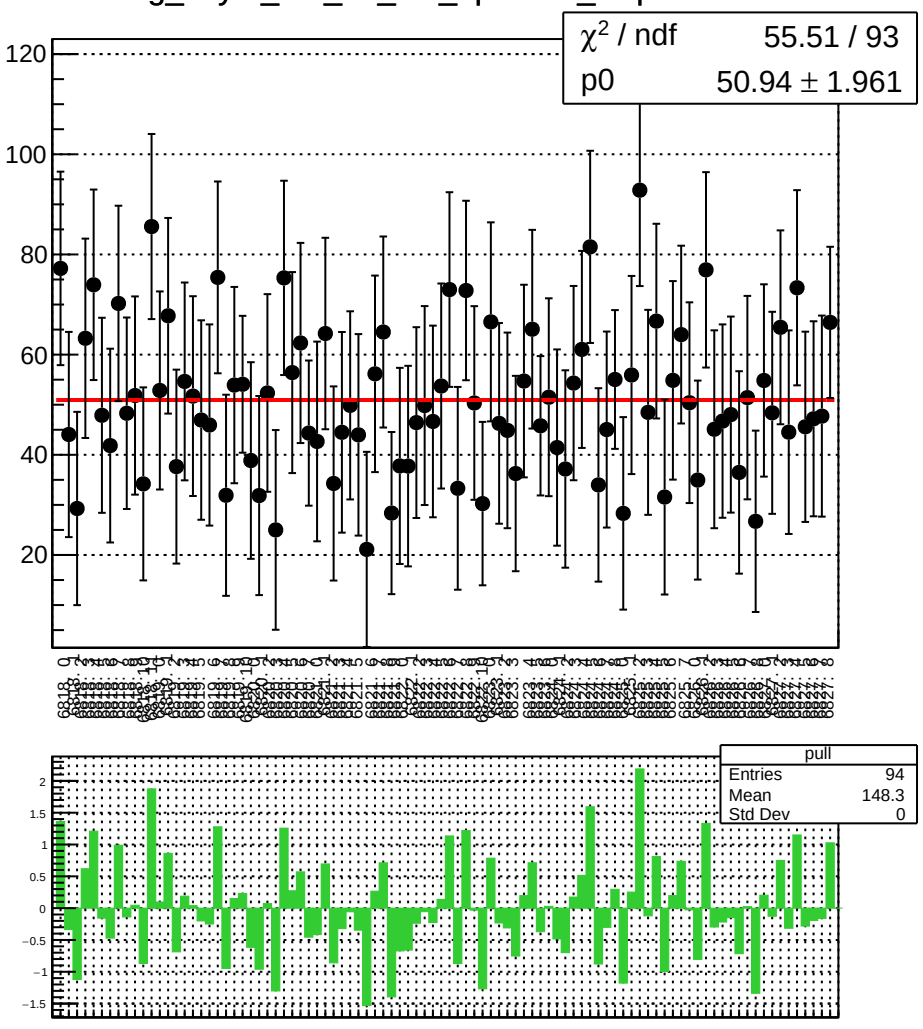

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.437 / 93
p0 97.62 ± 6.239
200
150
100
50
0
pull
Entries 94
Mean 24.39
Std Dev 108.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.004331
Std Dev 0.2405
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

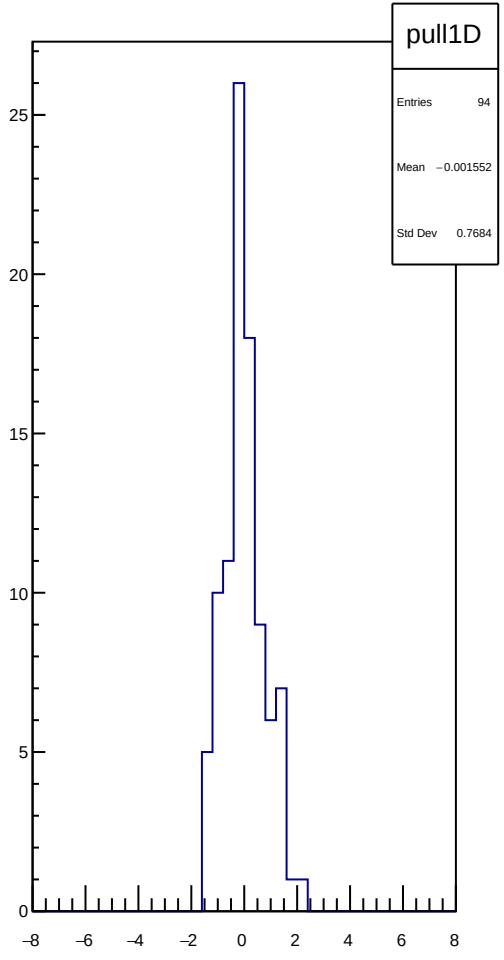

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 8.708 / 93
p0 −262.9 ± 0.3054
pull
Entries 94
Mean −433.6
Std Dev 0
pull1D
Entries 94
Mean −0.002779
Std Dev 0.3044

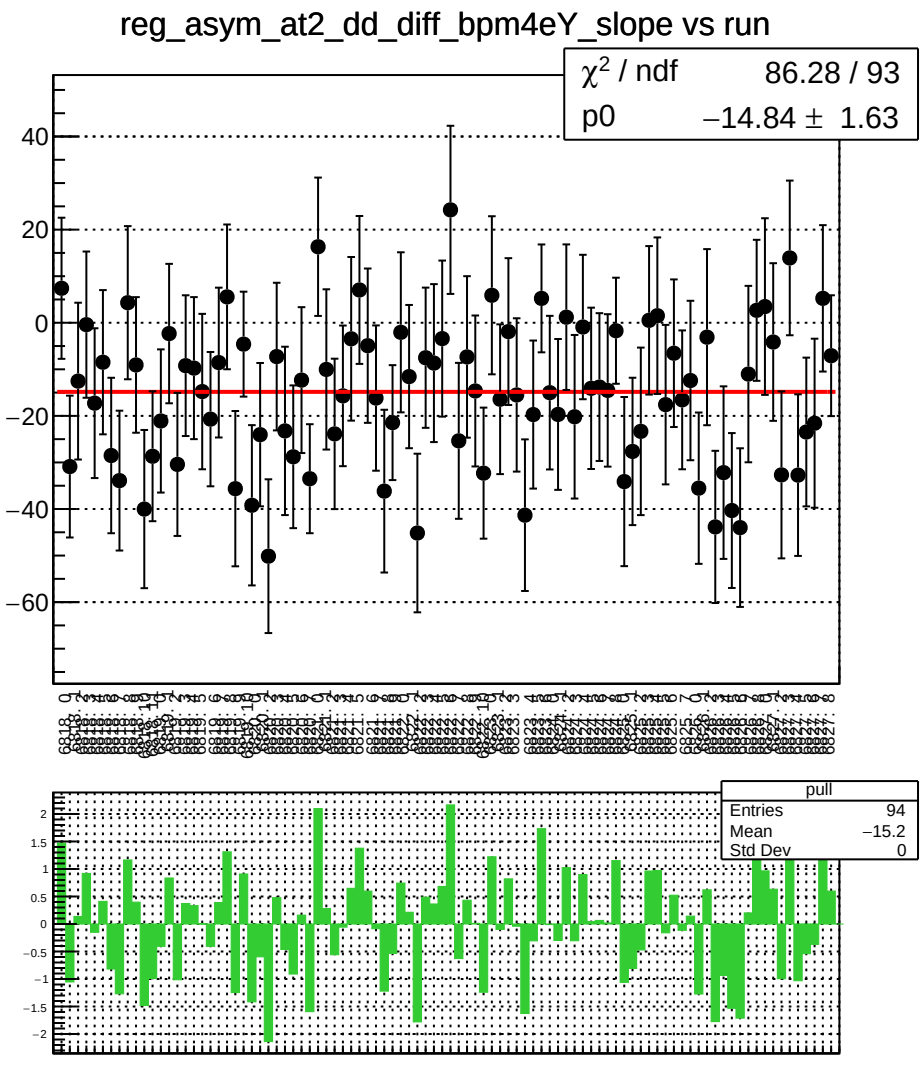

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 57.2 / 93
p0 35.81 ± 2.098
pull
Entries 94
Mean 45.31
Std Dev 0

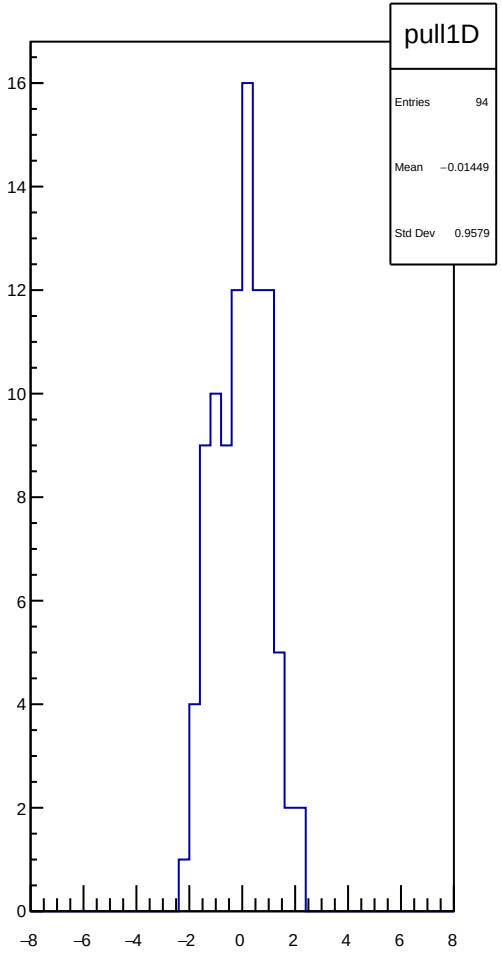

pull1D
Entries 94
Mean 0.002124
Std Dev 0.7801

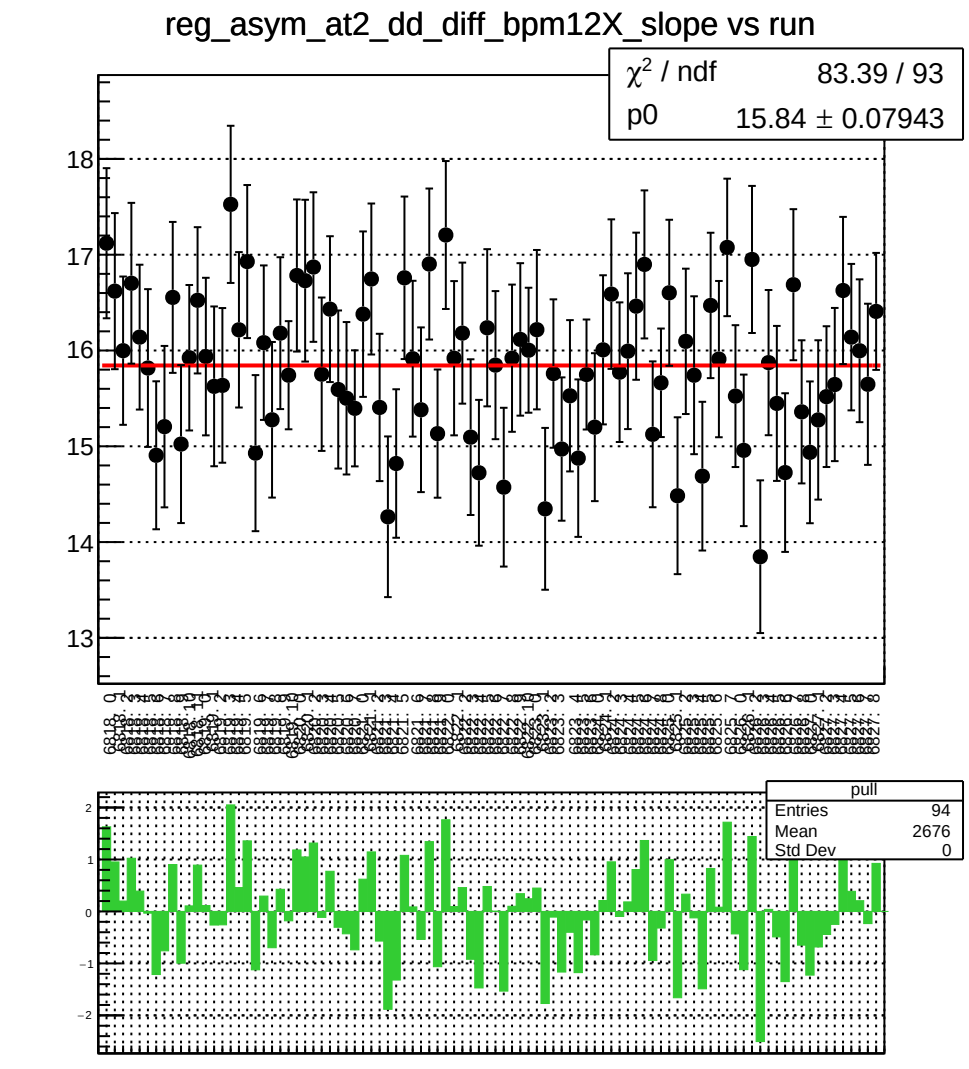

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.81 / 93
p0 3.859 ± 1.41
pull
Entries 94
Mean 45.8
Std Dev 44.49
pull1D
Entries 94
Mean 0.02214
Std Dev 0.9496

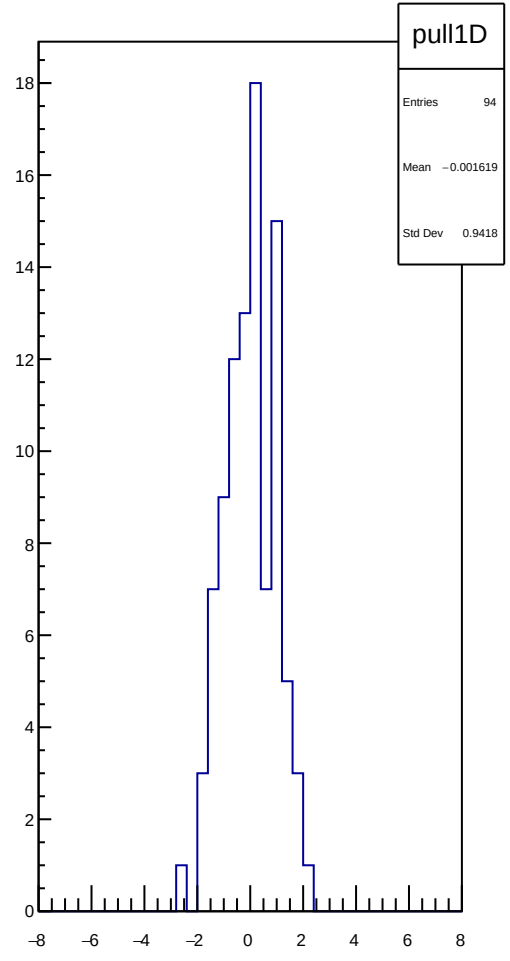

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.51 / 93
p0 50.94 ± 1.961
pull
Entries 94
Mean 148.3
Std Dev 0

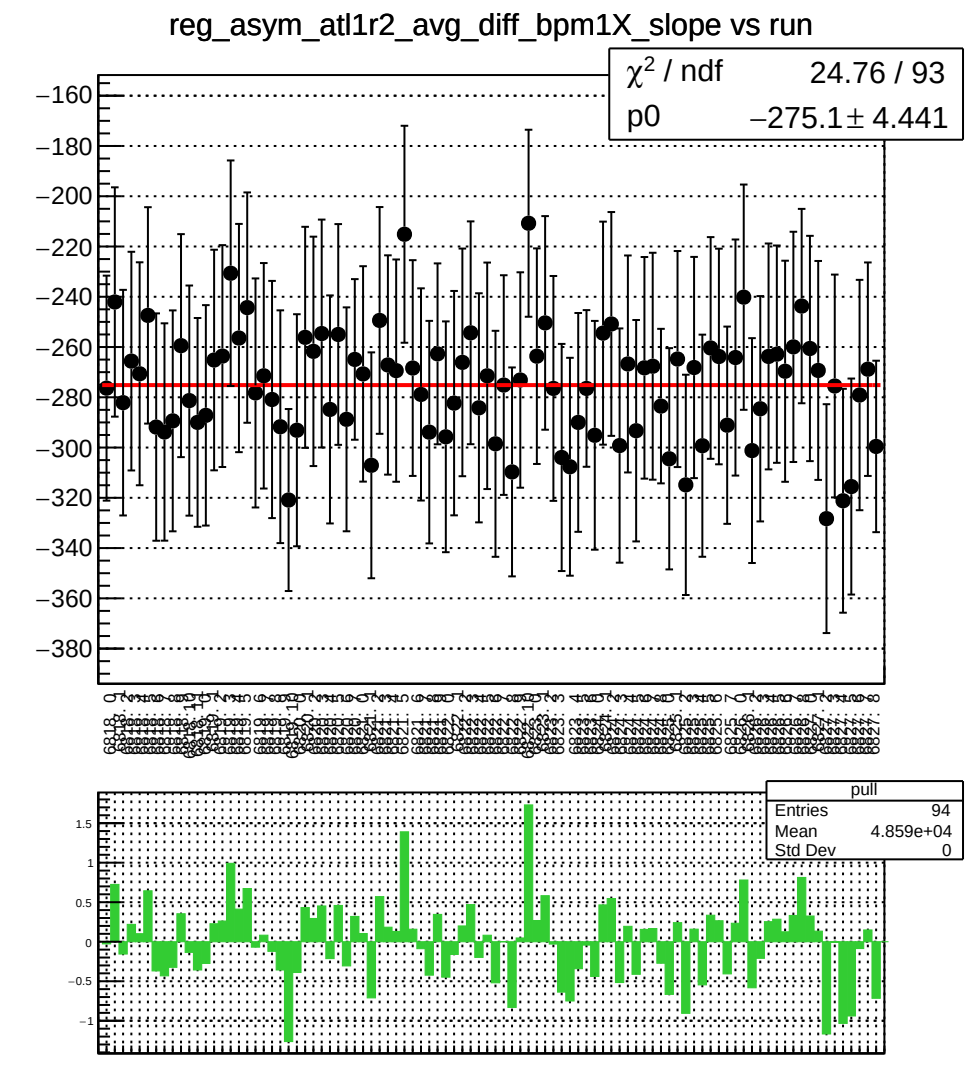

pull1D
Entries 94
Mean −0.001552
Std Dev 0.7684

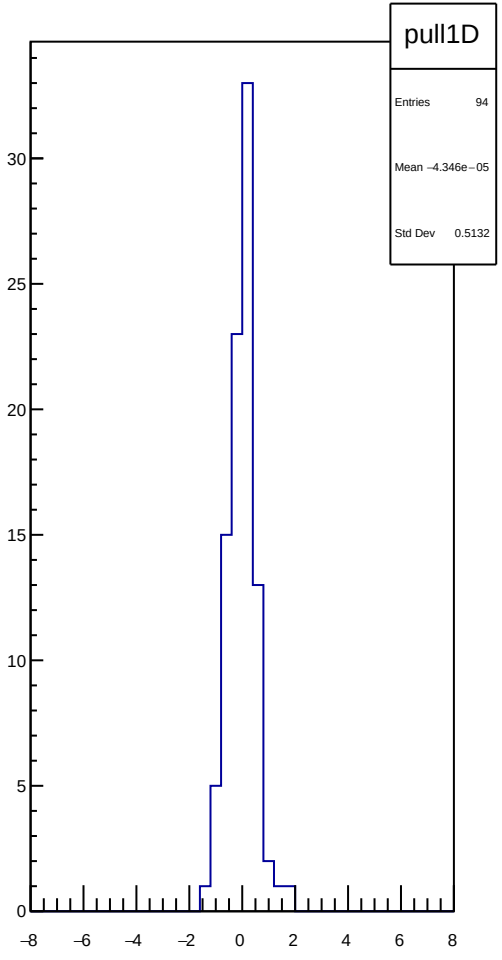

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.28 / 93
p0 −14.84 ± 1.63
pull
Entries 94
Mean −15.2
Std Dev 0

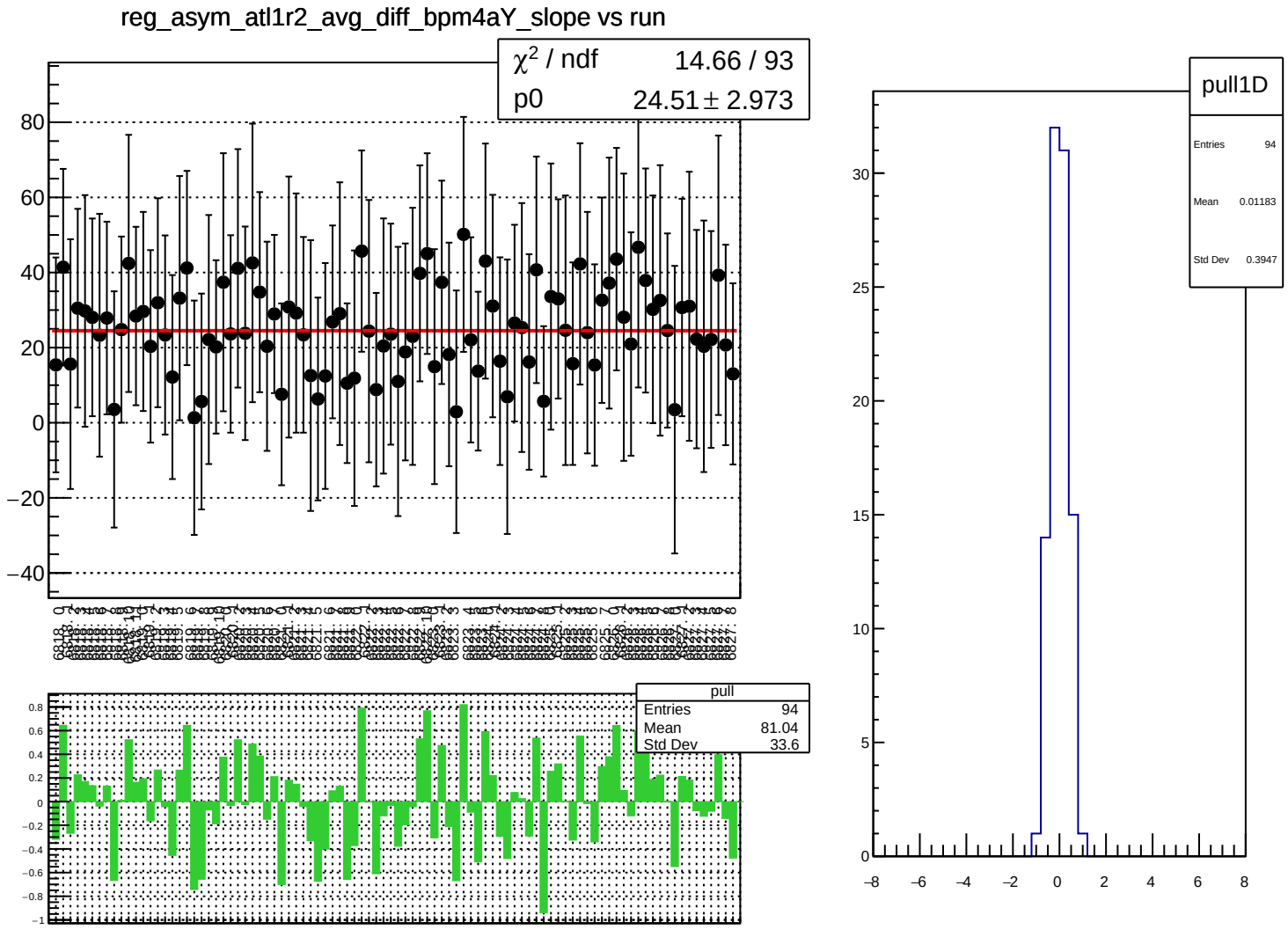

pull1D
Entries 94
Mean −0.01449
Std Dev 0.9579

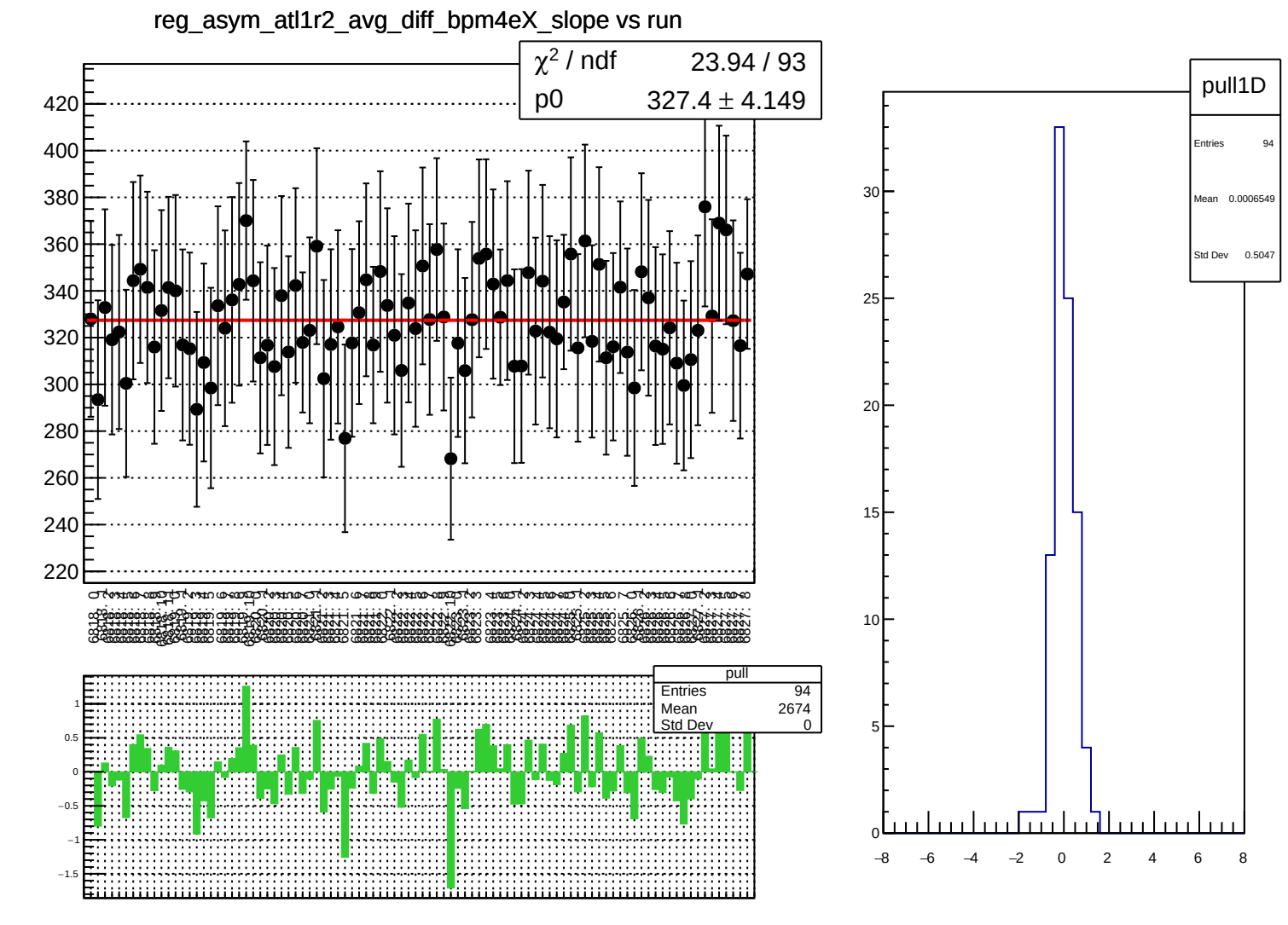

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 83.39 / 93
p0 15.84 ± 0.07943
pull
Entries 94
Mean 2676
Std Dev 0

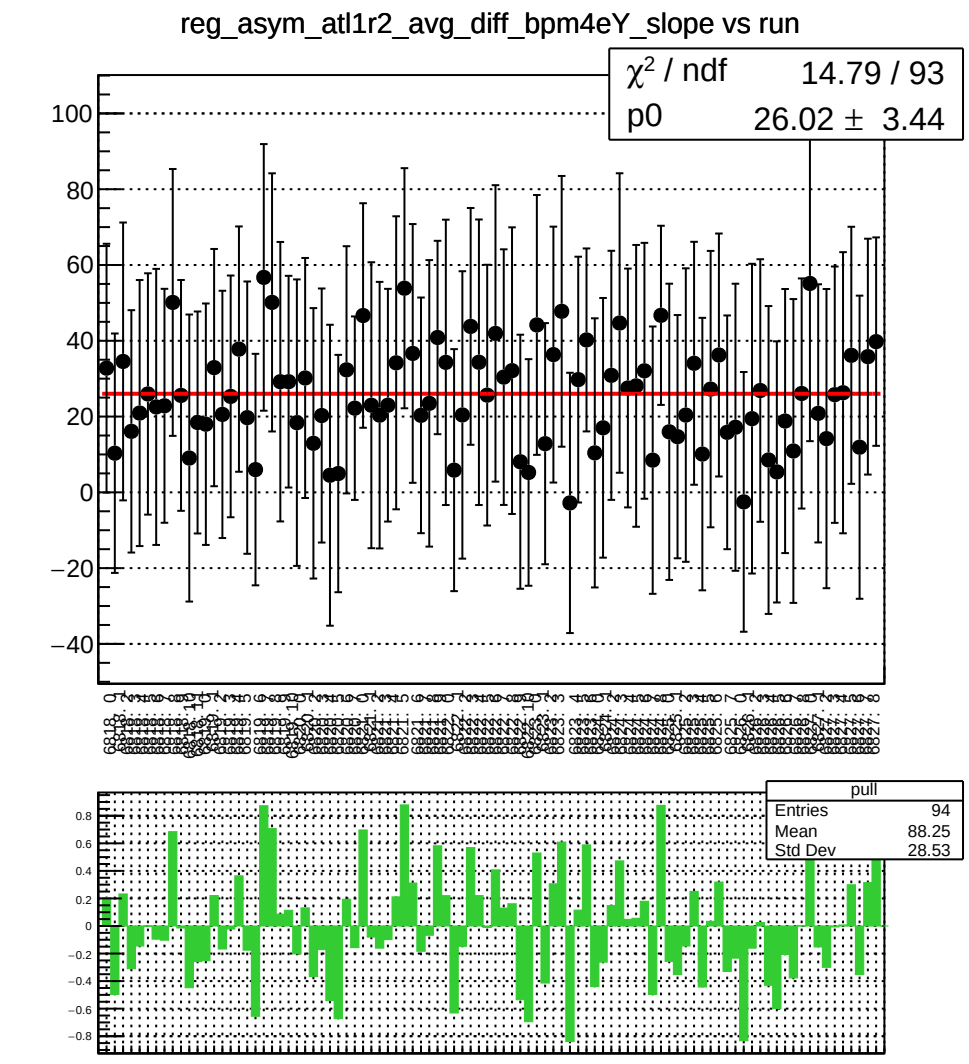

pull1D
Entries 94
Mean −0.001619
Std Dev 0.9418

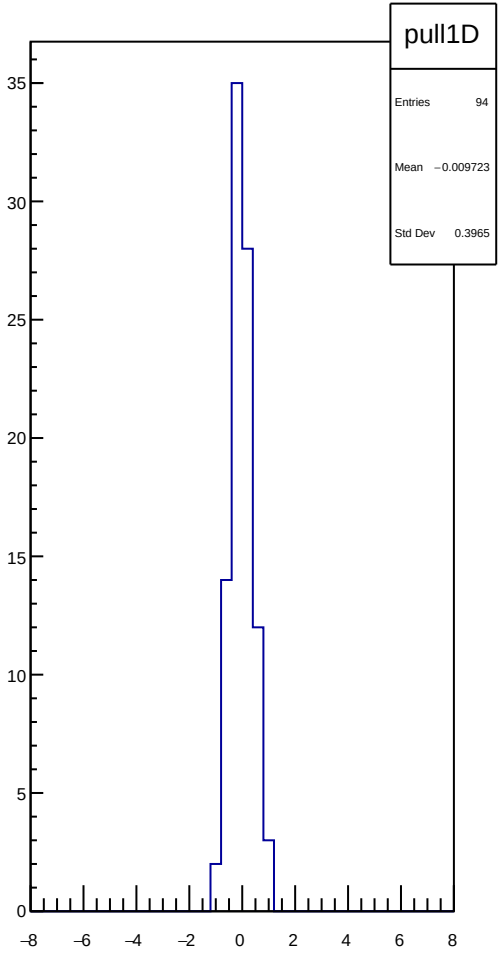

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 24.76 / 93
p0 −275.1 ± 4.441
pull
Entries 94
Mean 4.859e+04
Std Dev 0

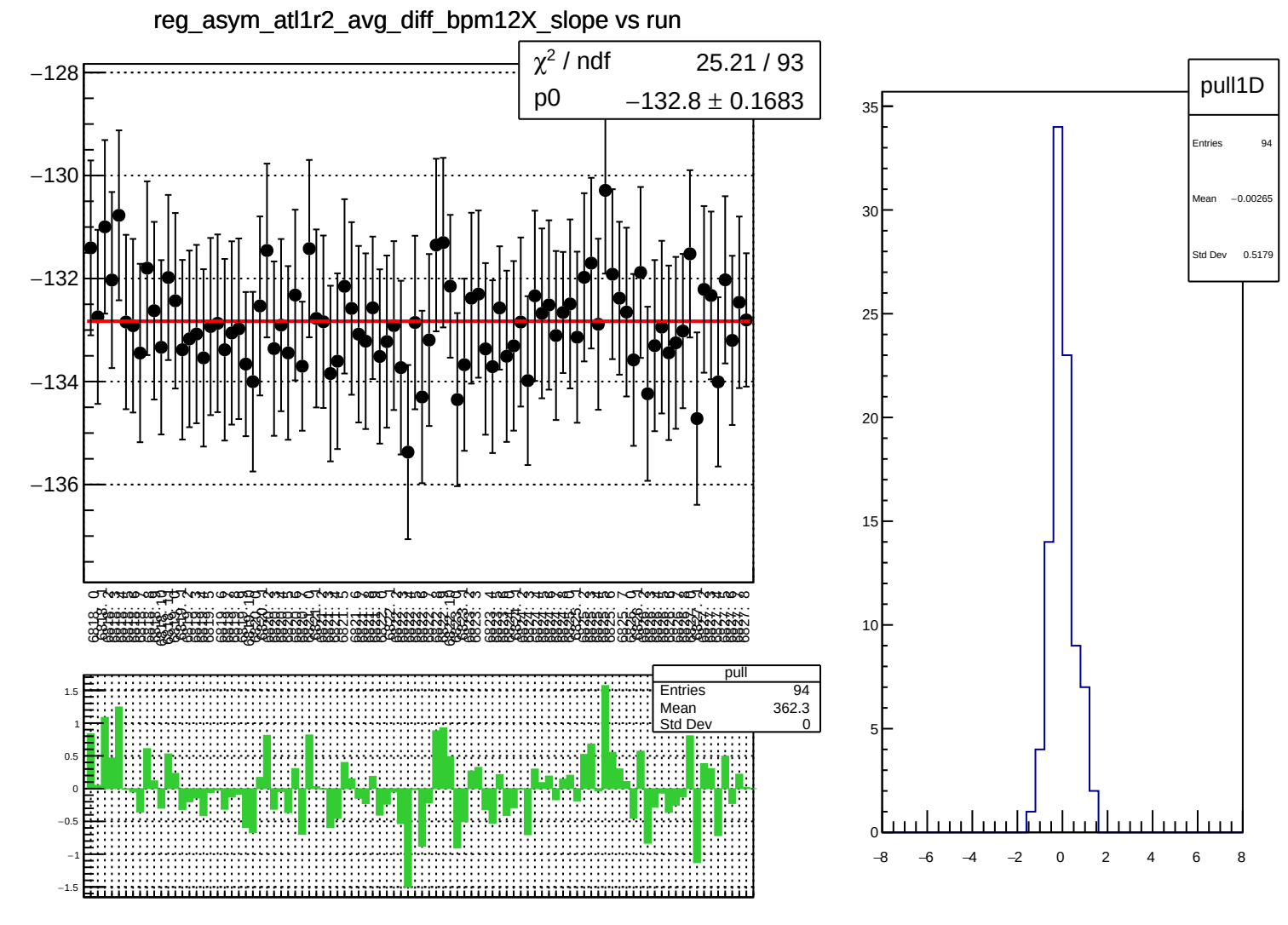

pull1D
Entries 94
Mean −4.346e−05
Std Dev 0.5132

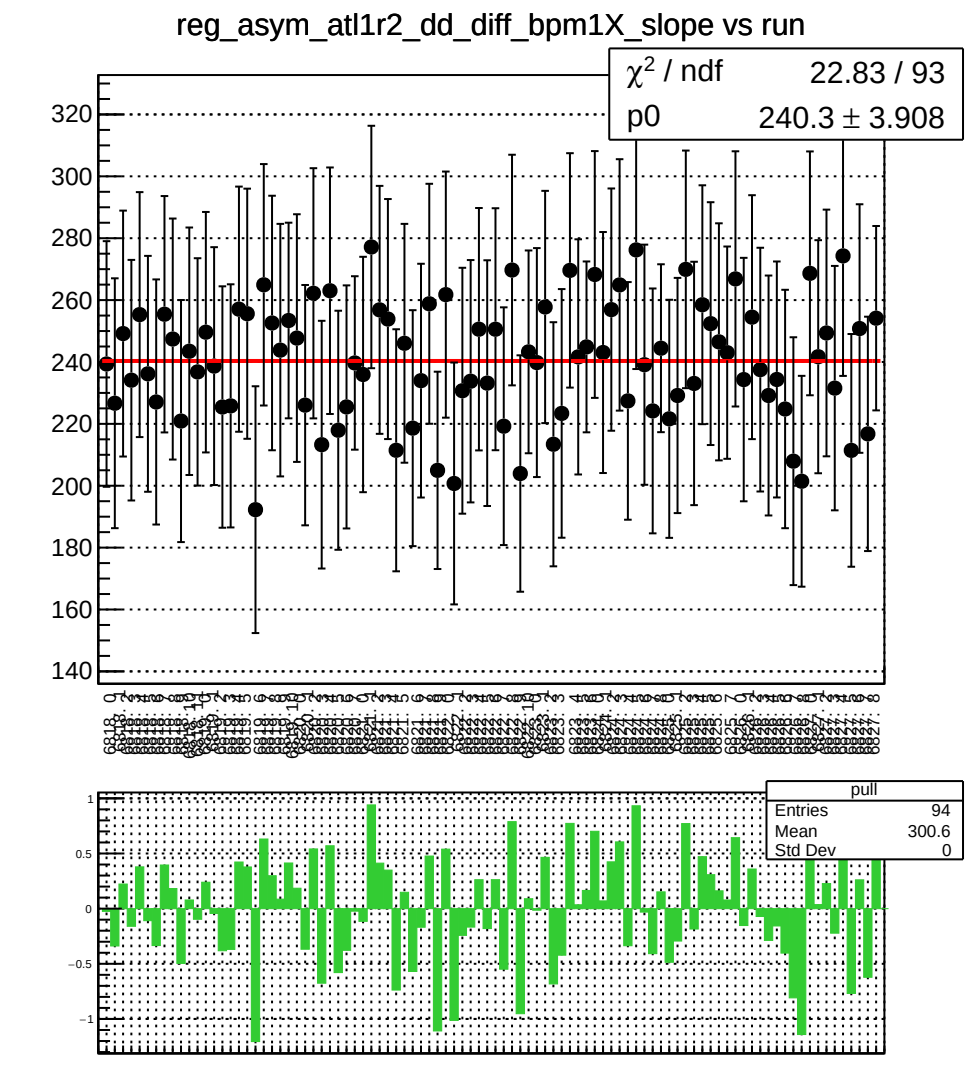

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.66 / 93
p0 24.51 ± 2.973
pull
Entries 94
Mean 81.04
Std Dev 33.6
pull1D
Entries 94
Mean 0.01183
Std Dev 0.3947

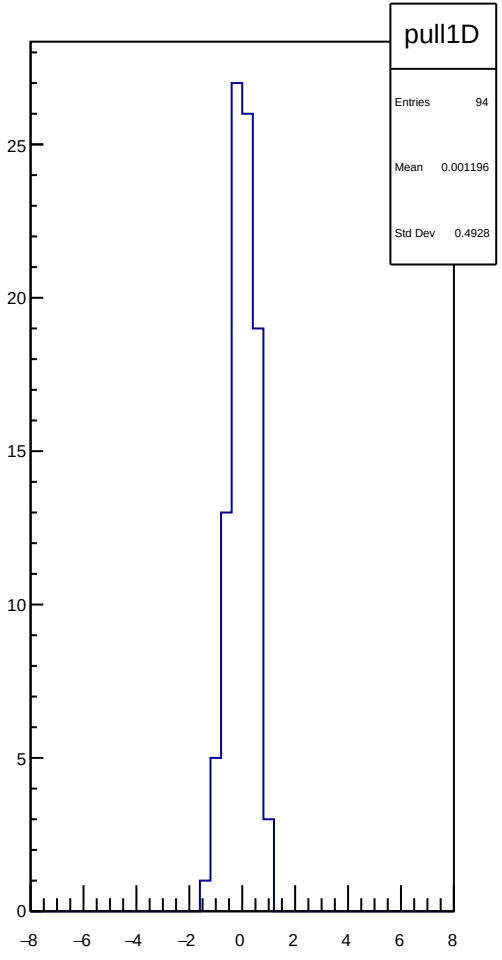

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.94 / 93
p0 327.4 ± 4.149
420
400
380
360
340
320
300
280
260
240
220
pull
Entries 94
Mean 2674
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.0006549
Std Dev 0.5047
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

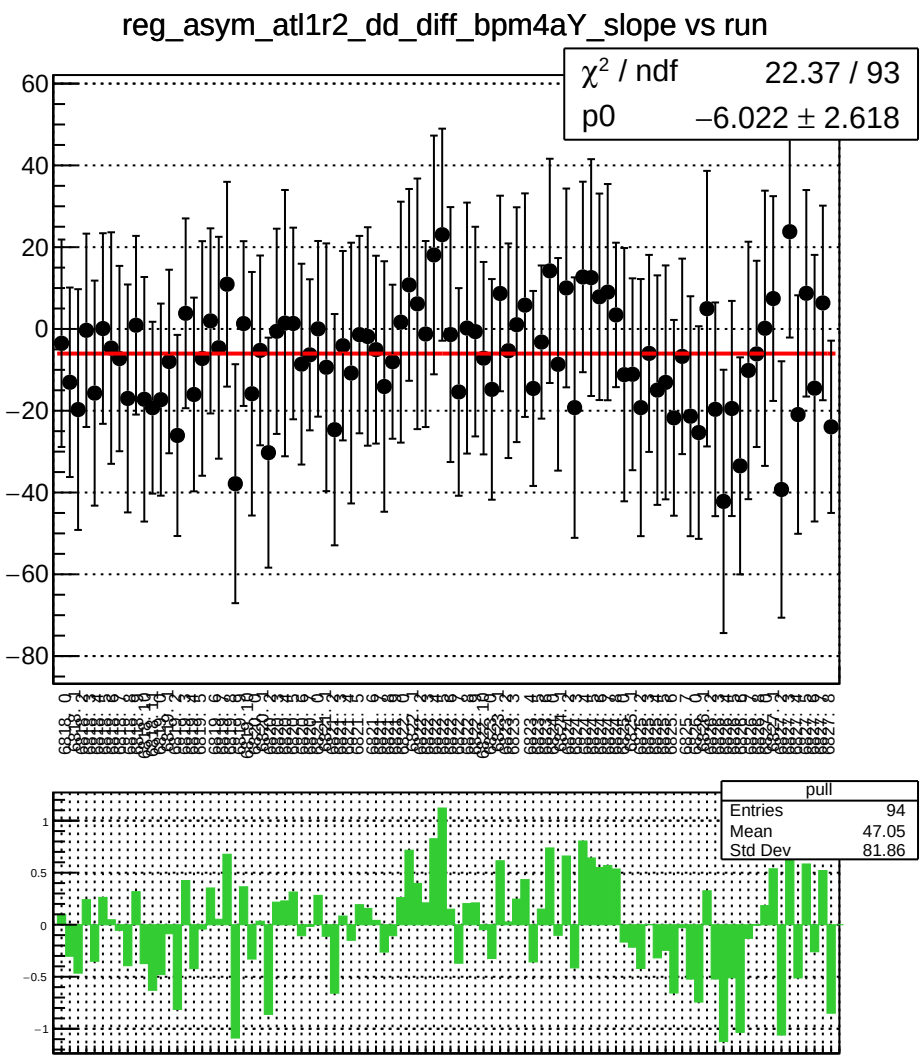

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.79 / 93
p0 26.02 ± 3.44
pull
Entries 94
Mean 88.25
Std Dev 28.53

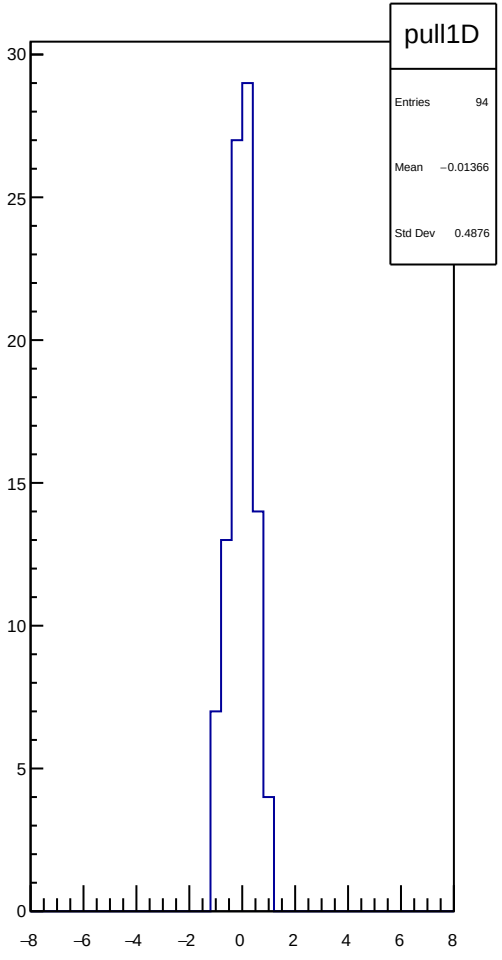

pull1D
Entries 94
Mean −0.009723
Std Dev 0.3965

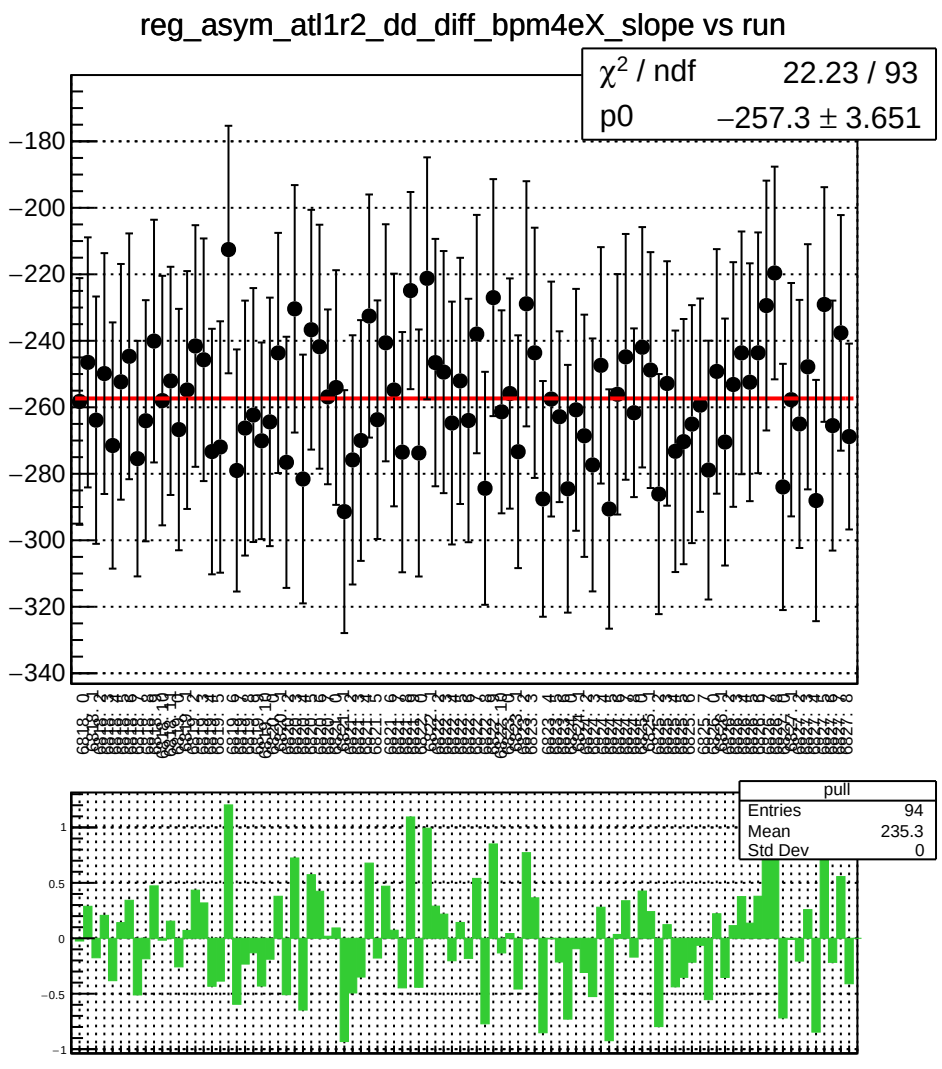

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.21 / 93
p0 −132.8 ± 0.1683
−128
−130
−132
−134
−136
pull
Entries 94
Mean 362.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean −0.00265
Std Dev 0.5179
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

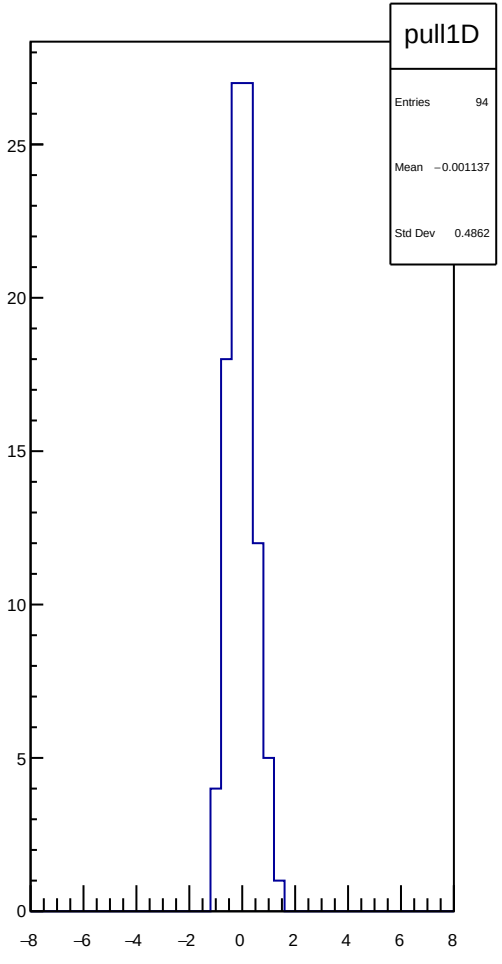

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 22.83 / 93
p0 240.3 ± 3.908
320
300
280
260
240
220
200
180
160
140
pull
Entries 94
Mean 300.6
Std Dev 0
1
0.5
0
−0.5
−1

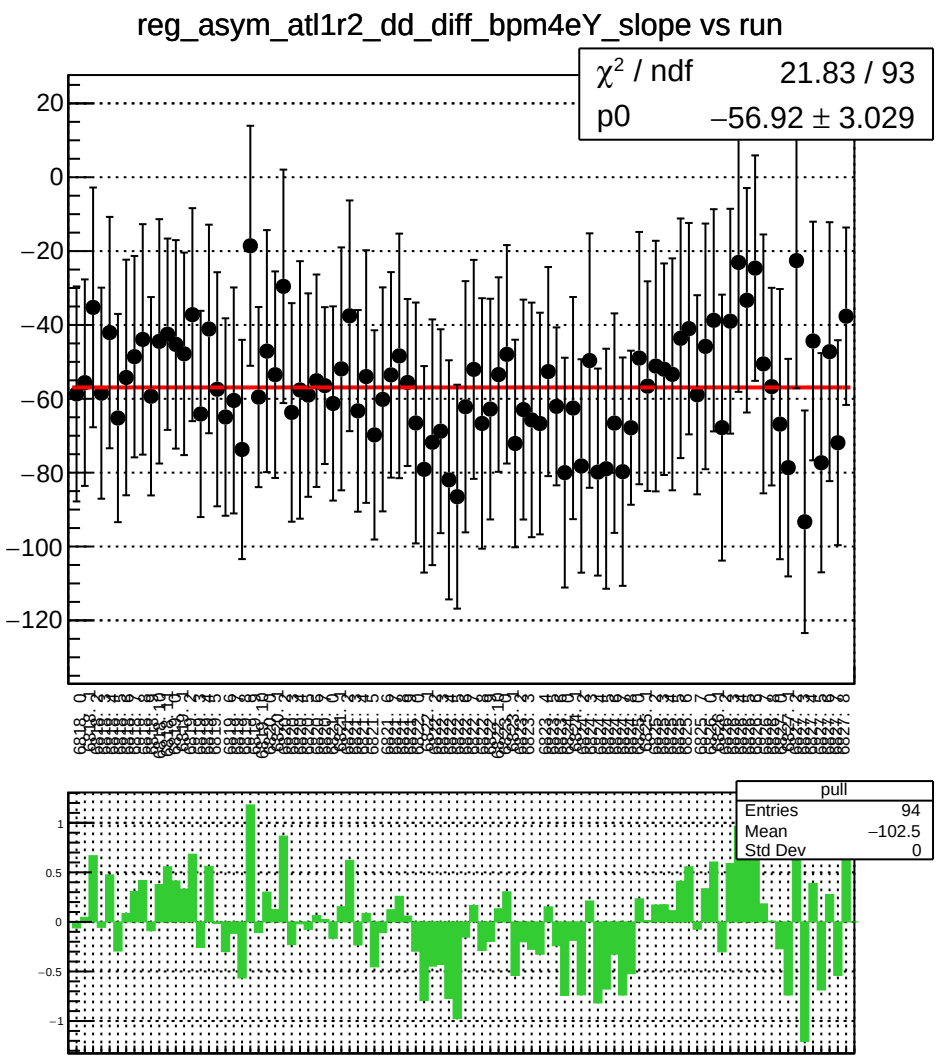

pull1D
Entries 94
Mean 0.001196
Std Dev 0.4928
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

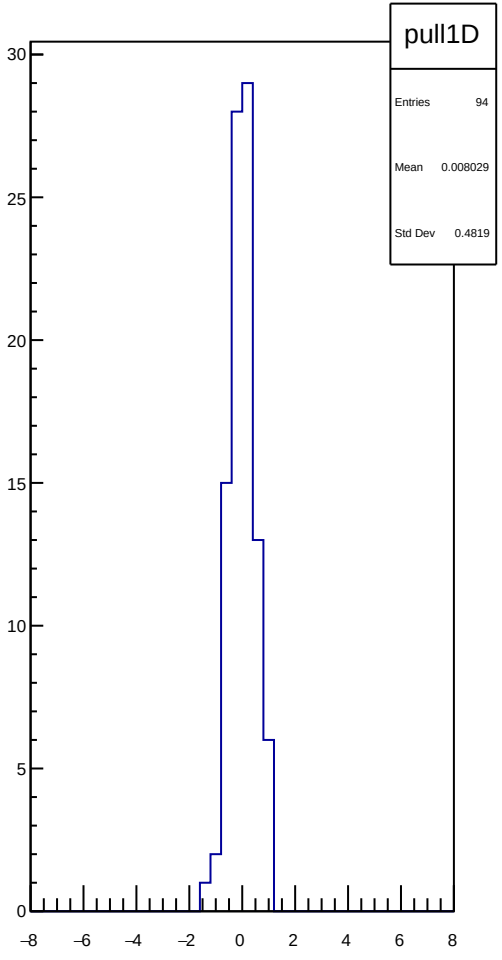

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.37 / 93
p0 −6.022 ± 2.618
pull
Entries 94
Mean 47.05
Std Dev 81.86

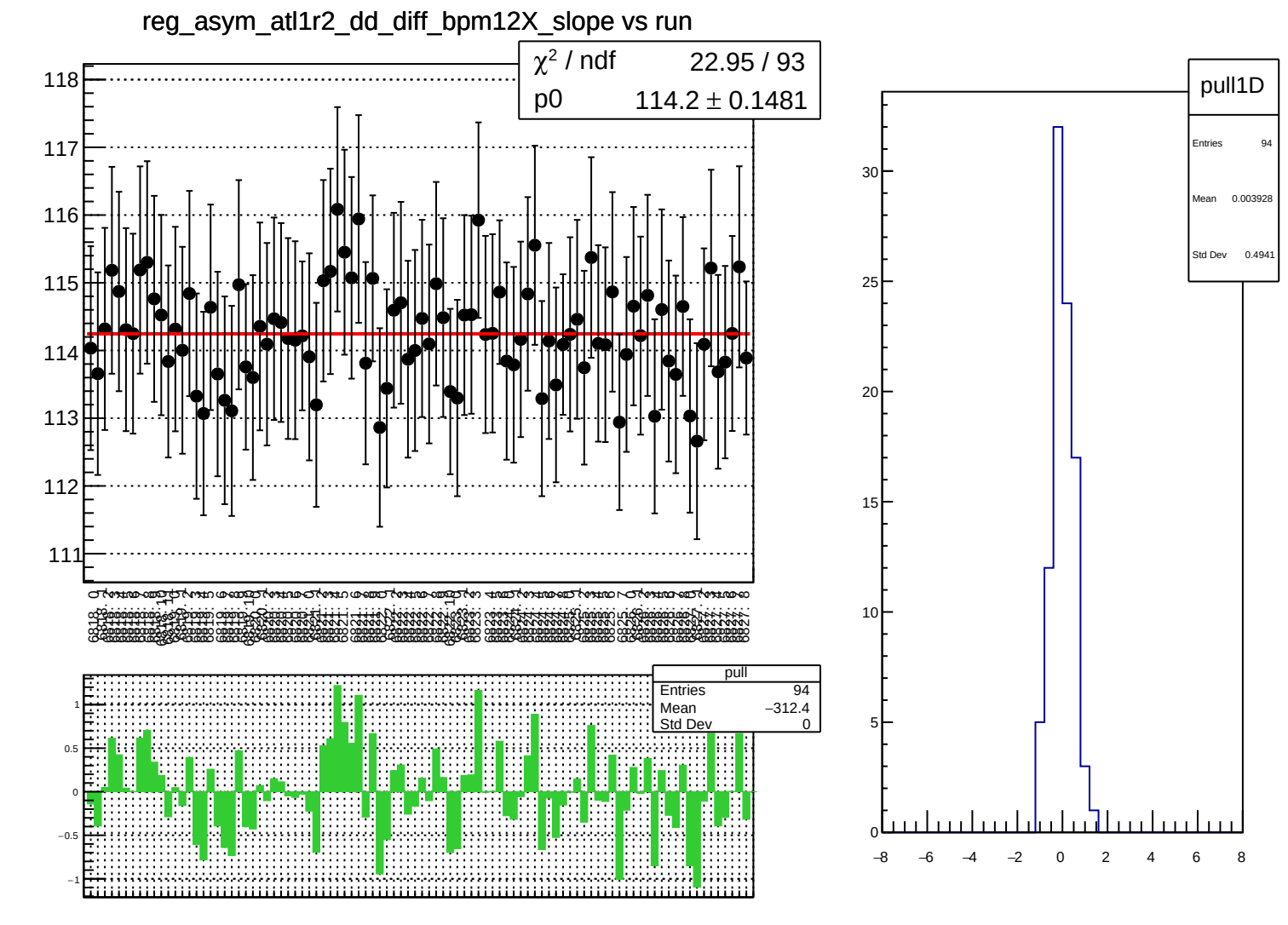

pull1D
Entries 94
Mean −0.01366
Std Dev 0.4876

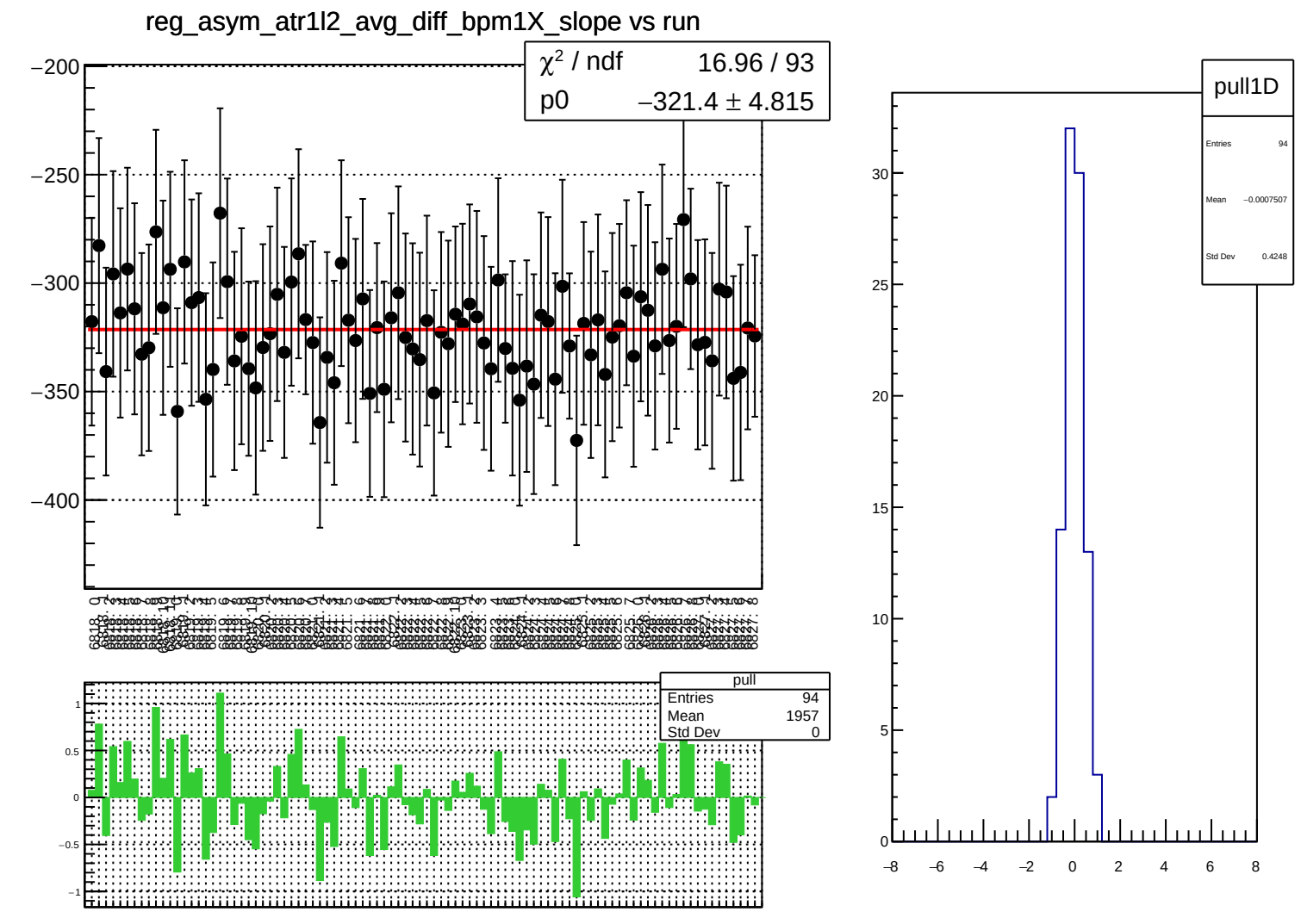

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.23 / 93
p0 −257.3 ± 3.651
pull
Entries 94
Mean 235.3
Std Dev 0

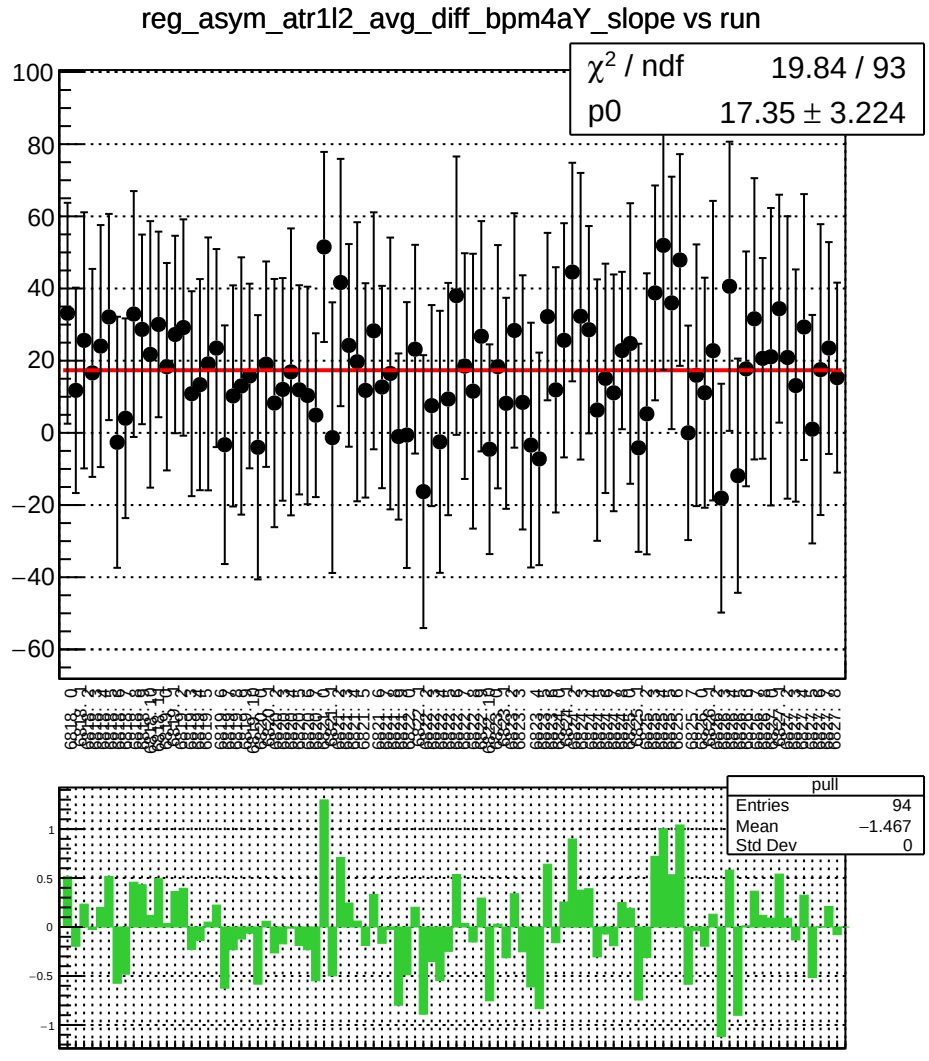

pull1D
Entries 94
Mean −0.001137
Std Dev 0.4862

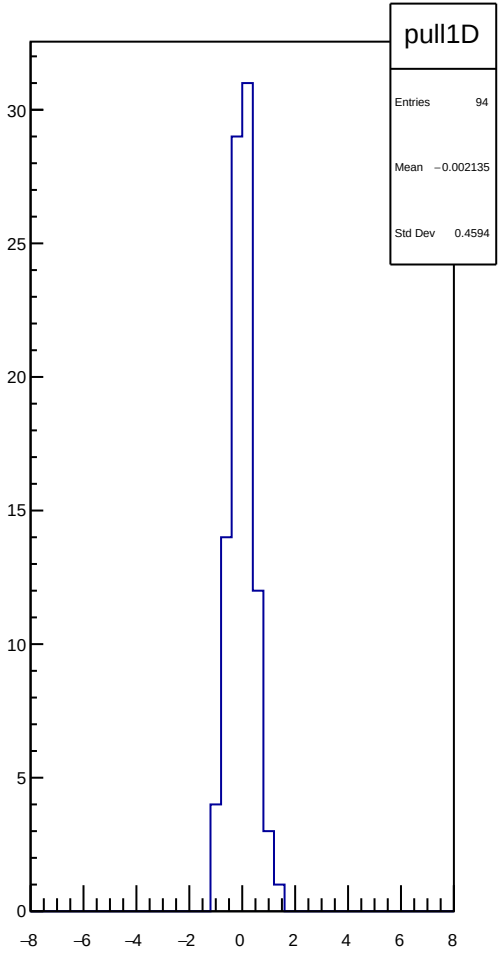

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.83 / 93
p0 −56.92 ± 3.029
pull
Entries 94
Mean −102.5
Std Dev 0

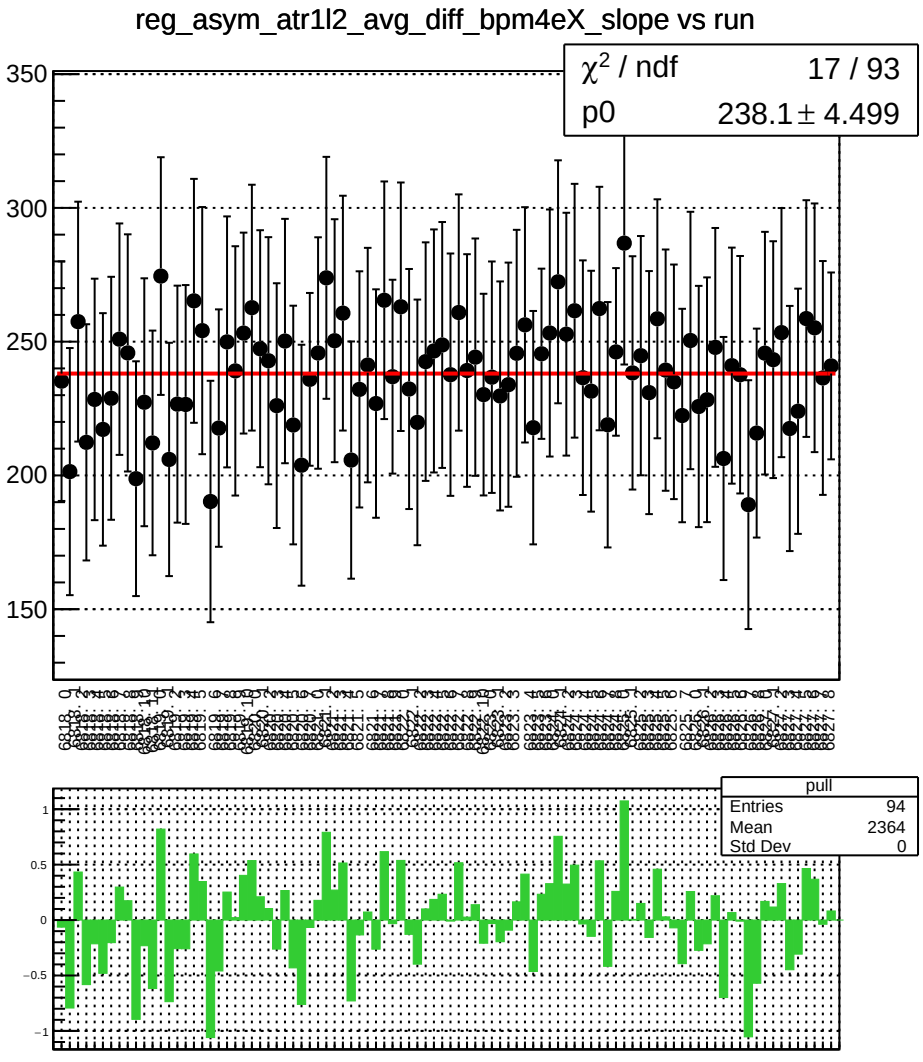

pull1D
Entries 94
Mean 0.008029
Std Dev 0.4819

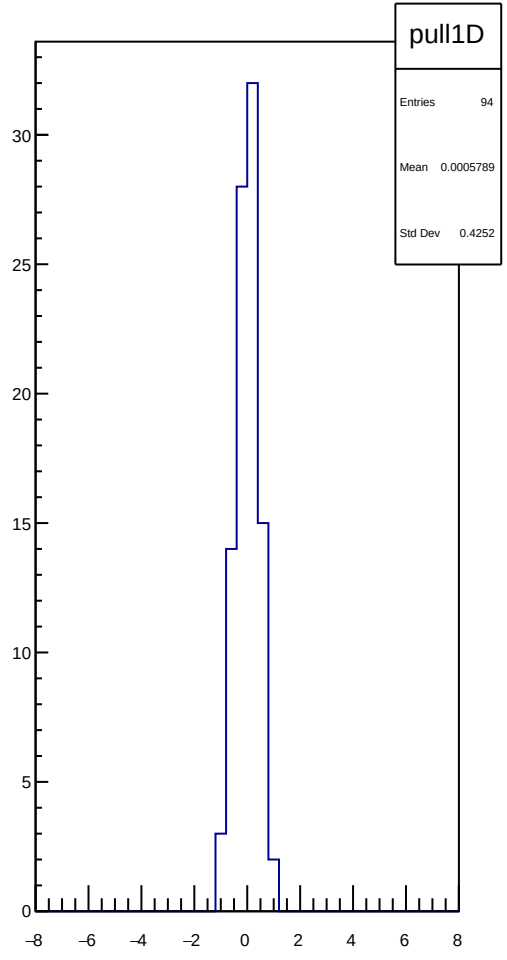

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.95 / 93
p0 114.2 ± 0.1481
pull
Entries 94
Mean −312.4
Std Dev 0
pull1D
Entries 94
Mean 0.003928
Std Dev 0.4941

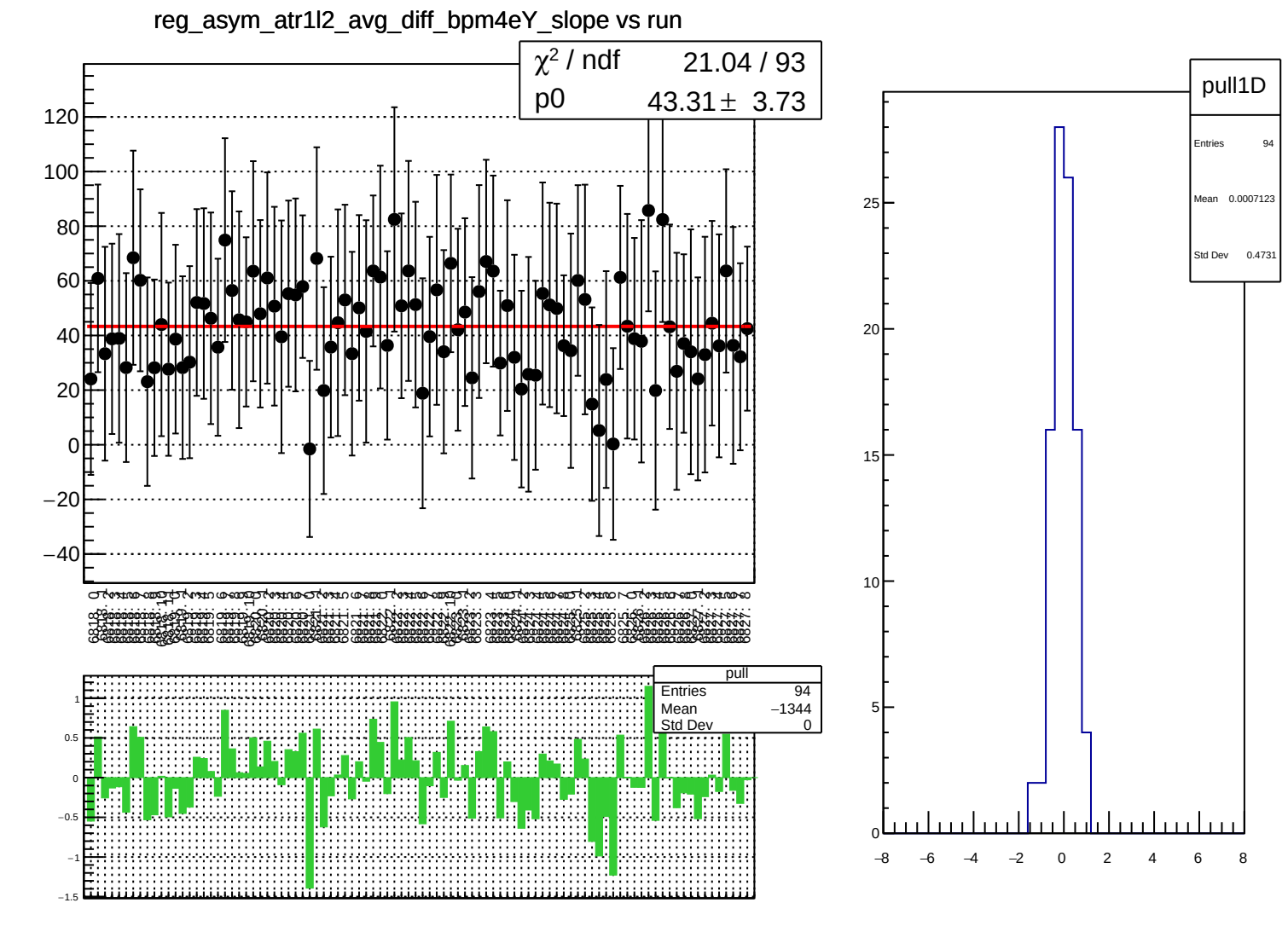

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 16.96 / 93
p0 −321.4 ± 4.815
−200
−250
−300
−350
−400
pull
Entries 94
Mean 1957
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0007507
Std Dev 0.4248
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

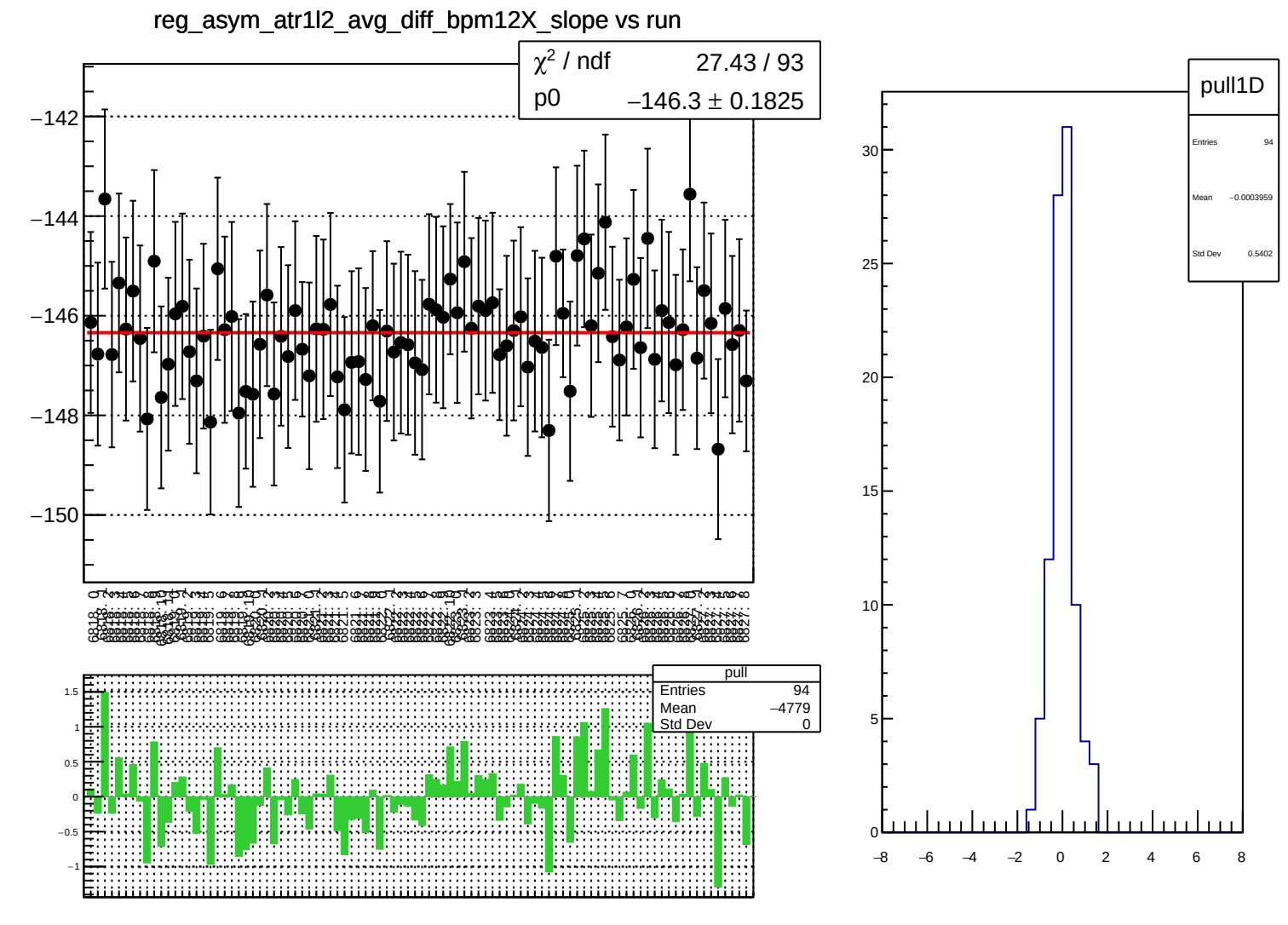

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.84 / 93
p0 17.35 ± 3.224
pull
Entries 94
Mean −1.467
Std Dev 0

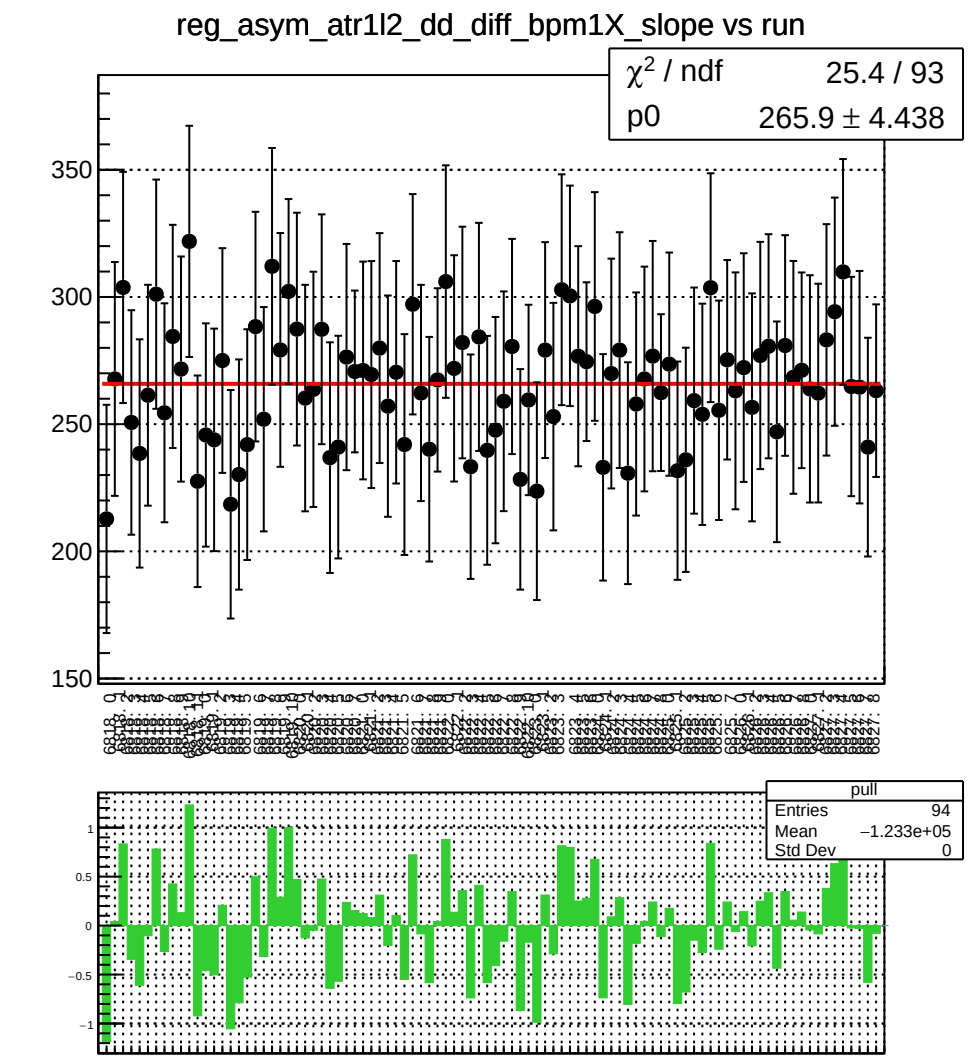

pull1D
Entries 94
Mean −0.002135
Std Dev 0.4594

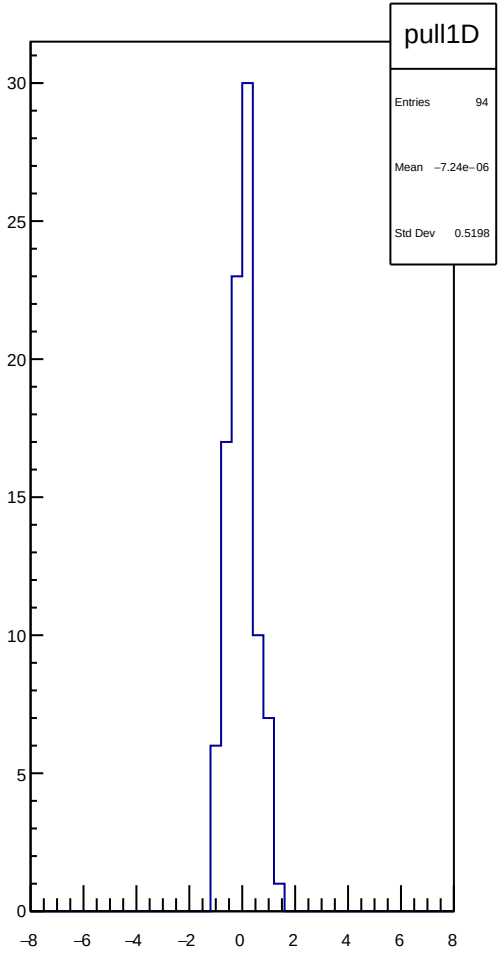

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 17 / 93
p0 238.1 ± 4.499
350
300
250
200
150
pull
Entries 94
Mean 2364
Std Dev 0
1
0.5
0
−0.5
−1

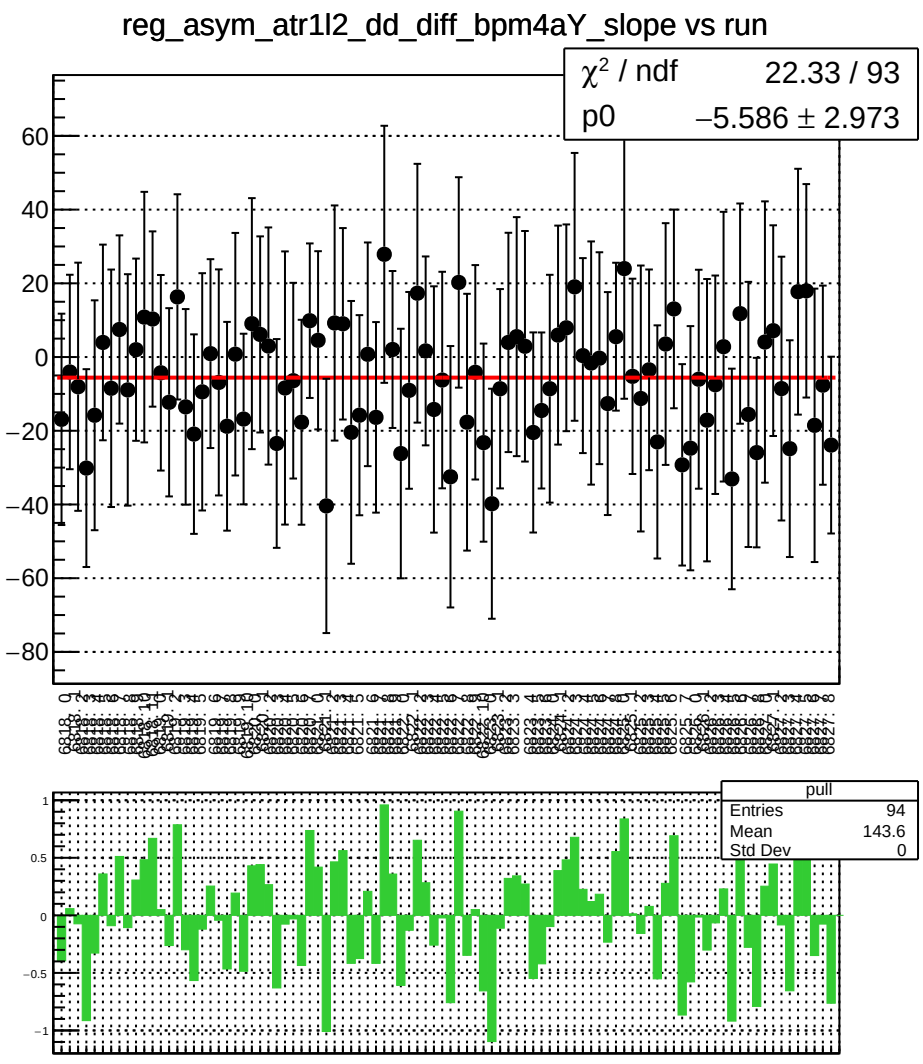

pull1D
Entries 94
Mean 0.0005789
Std Dev 0.4252
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

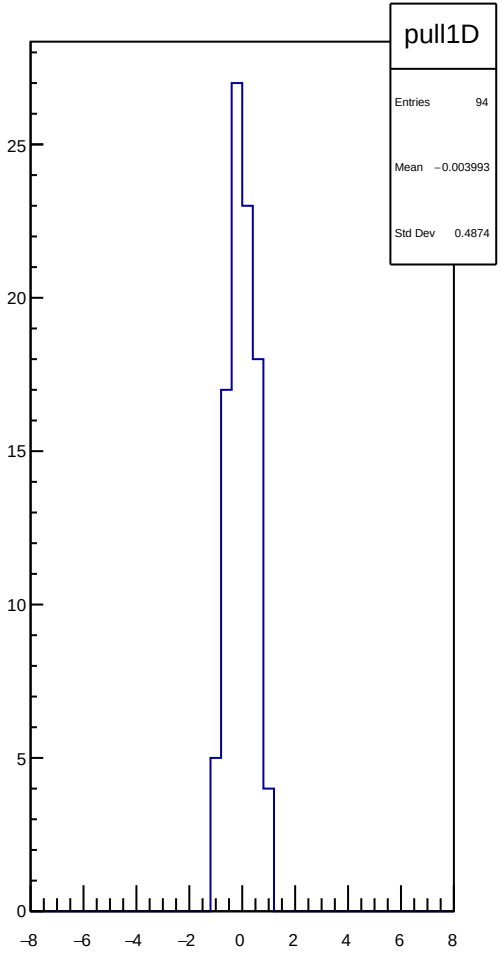

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.04 / 93
p0 43.31 ± 3.73
pull
Entries 94
Mean −1344
Std Dev 0
pull1D
Entries 94
Mean 0.0007123
Std Dev 0.4731

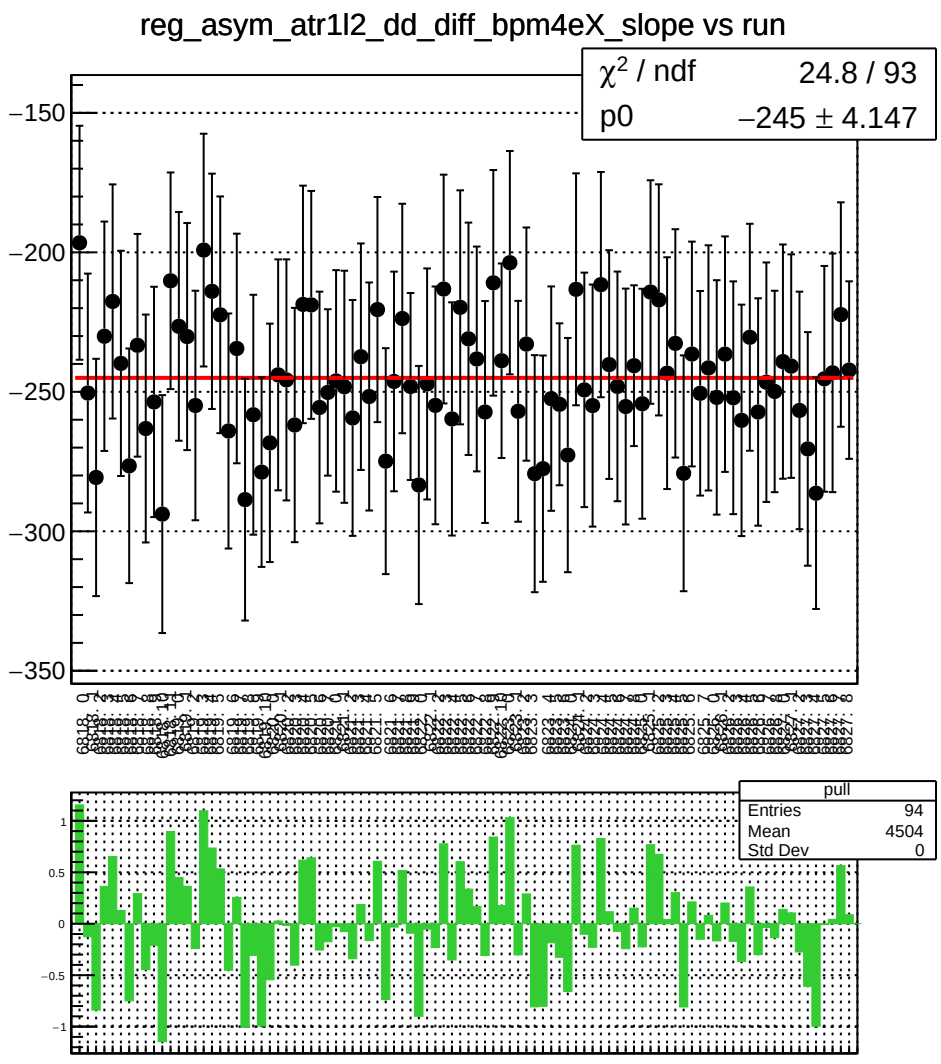

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 27.43 / 93
p0 −146.3 ± 0.1825
−142
−144
−146
−148
−150
pull
Entries 94
Mean −4779
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0003959
Std Dev 0.5402
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

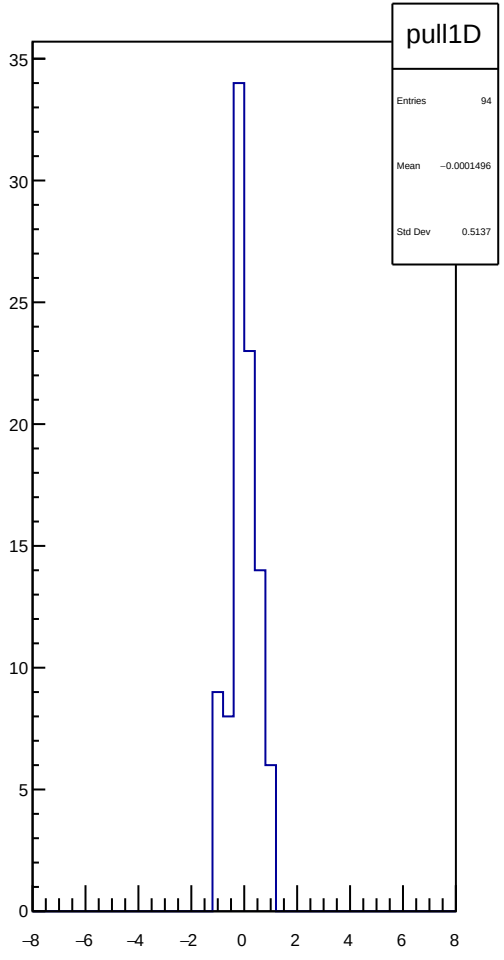

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 25.4 / 93
p0 265.9 ± 4.438
350
300
250
200
150
pull
Entries 94
Mean −1.233e+05
Std Dev 0
1
0.5
0
−0.5
−1

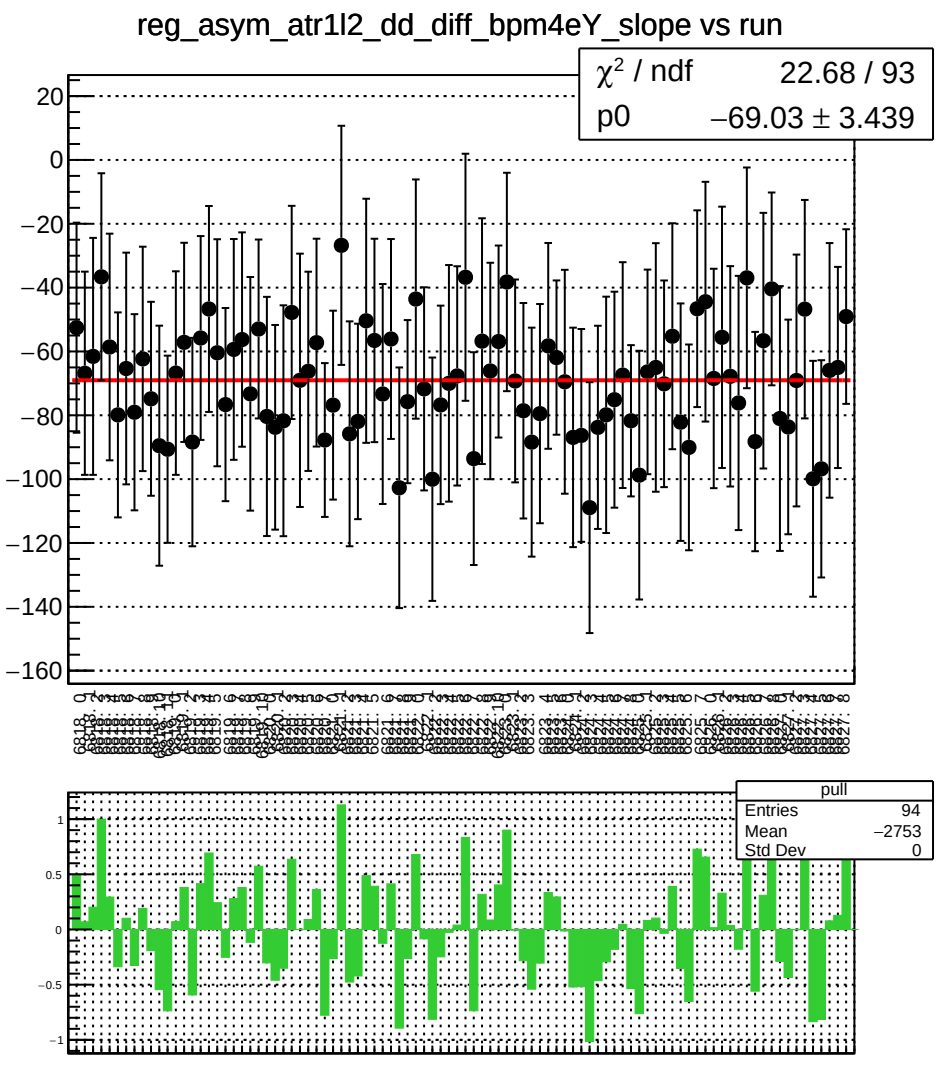

pull1D
Entries 94
Mean −7.24e−06
Std Dev 0.5198
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

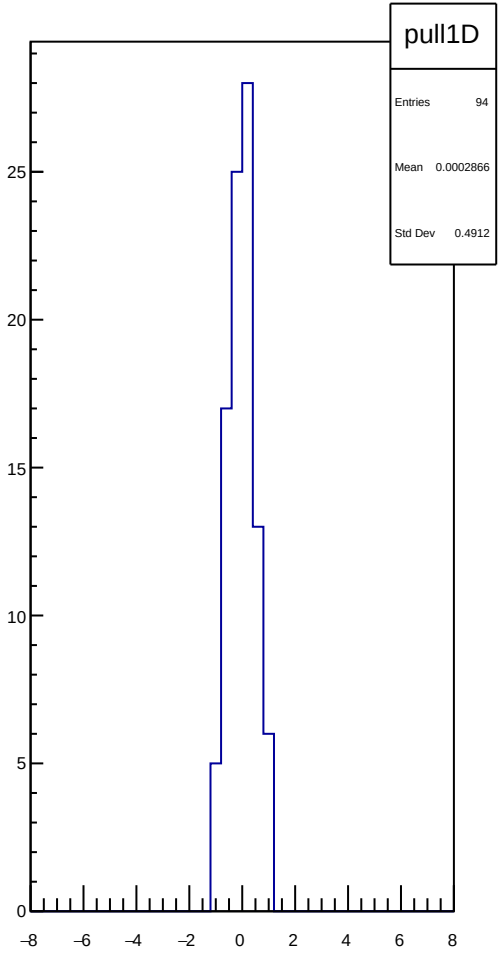

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.33 / 93
p0 −5.586 ± 2.973
pull
Entries 94
Mean 143.6
Std Dev 0

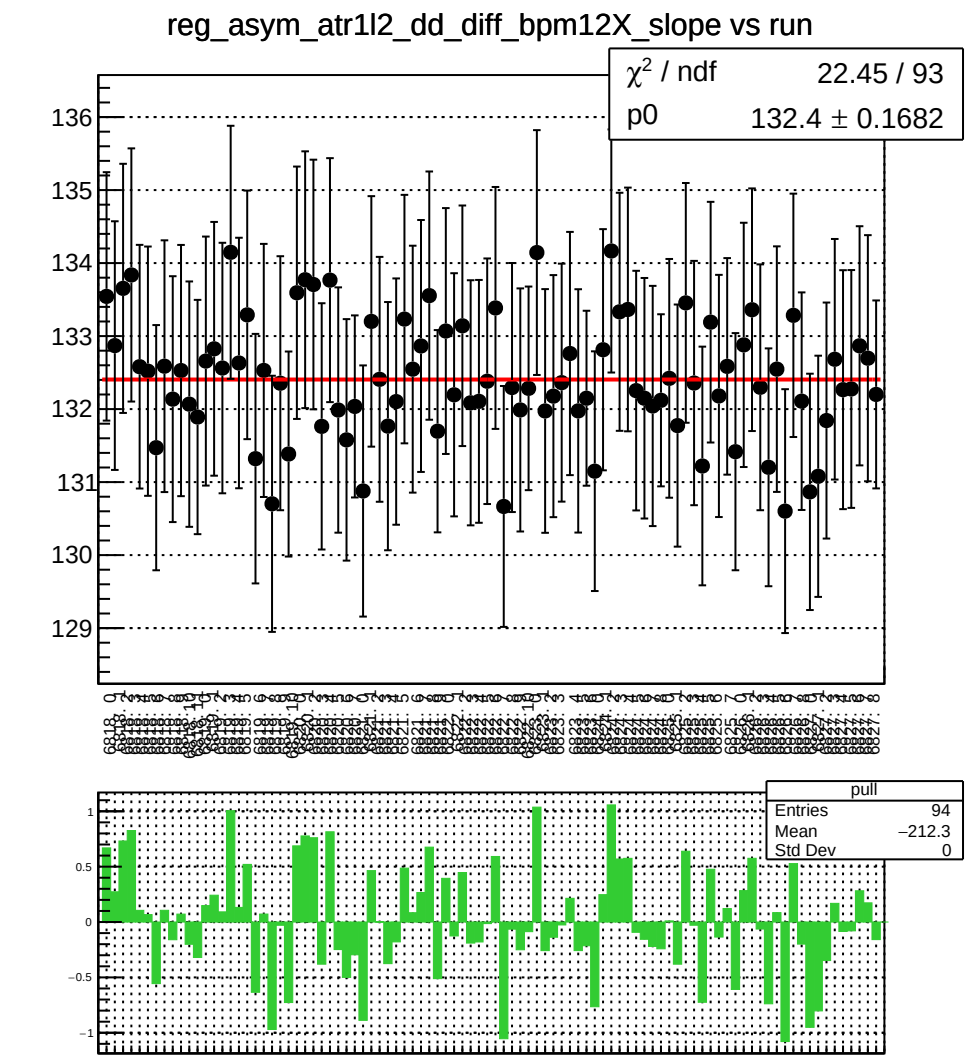

pull1D
Entries 94
Mean −0.003993
Std Dev 0.4874

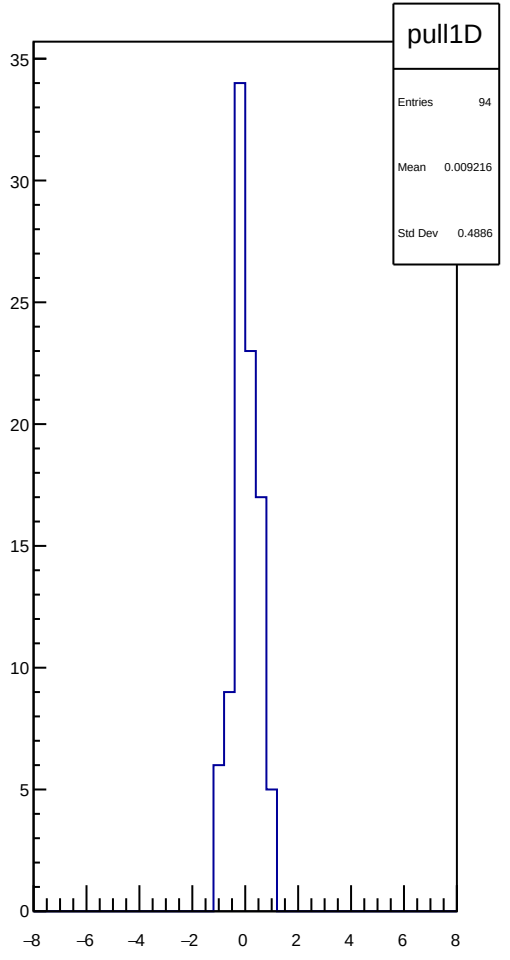

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.8 / 93
p0 −245 ± 4.147
−150
−200
−250
−300
−350
pull
Entries 94
Mean 4504
Std Dev 0
1
0.5
0
−0.5
−1

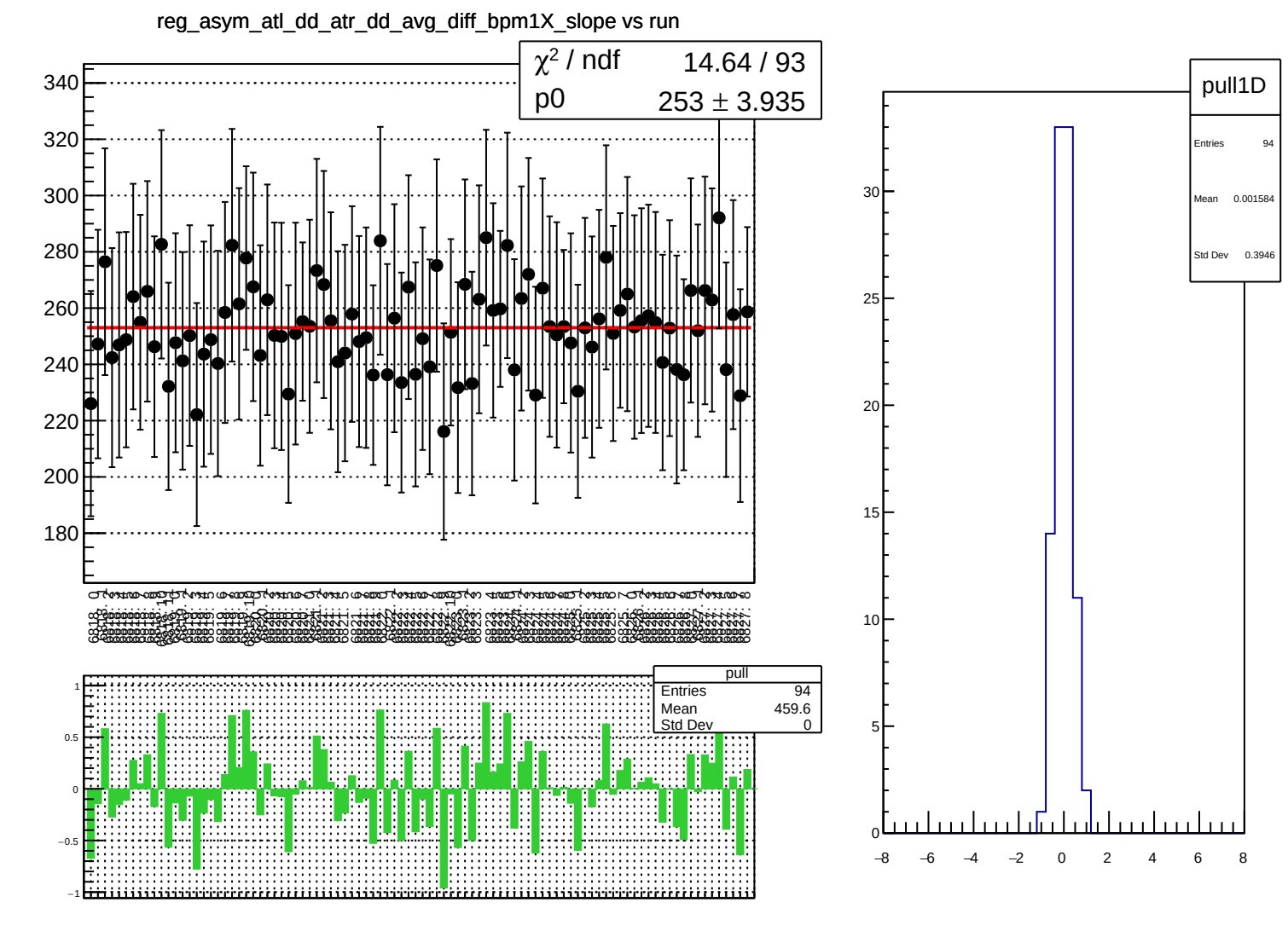

pull1D
Entries 94
Mean −0.0001496
Std Dev 0.5137
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

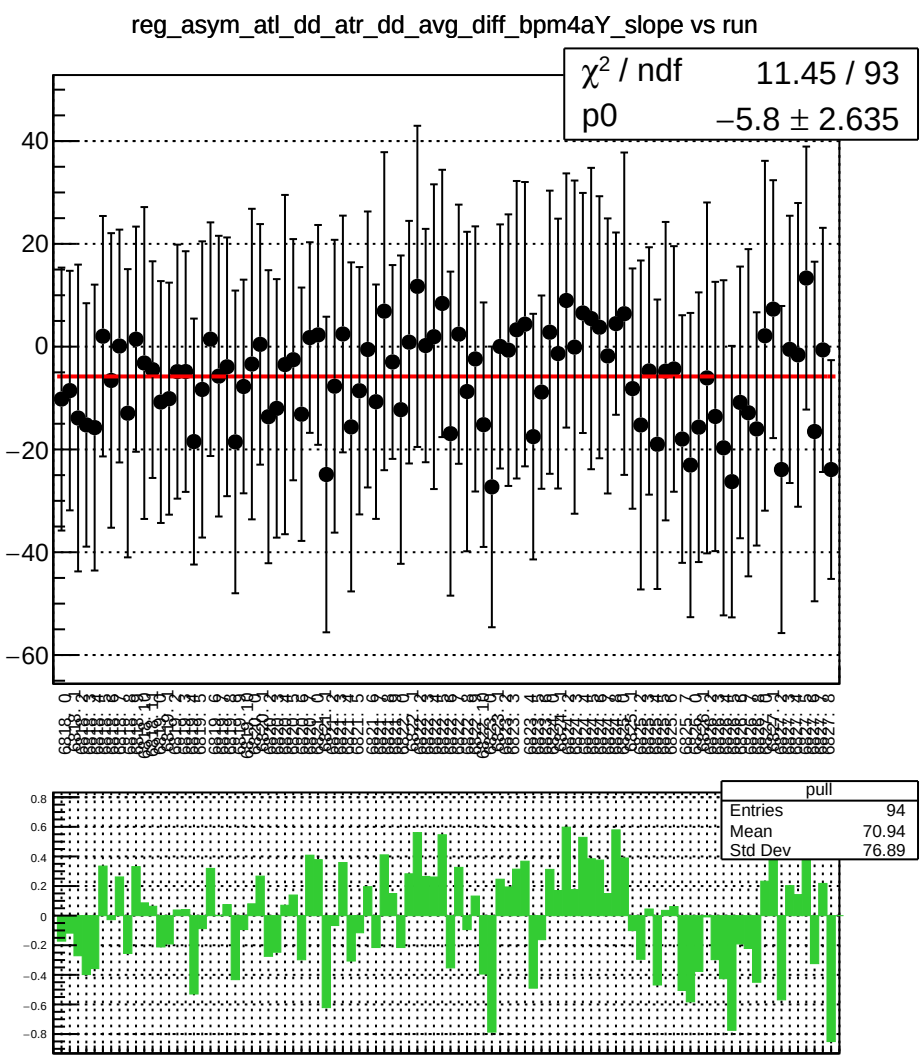

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.68 / 93
p0 −69.03 ± 3.439
pull
Entries 94
Mean −2753
Std Dev 0

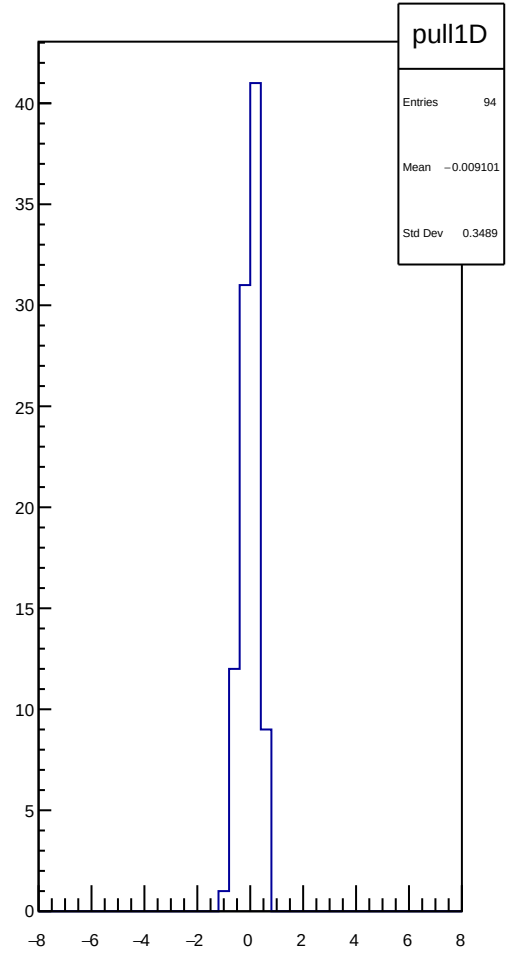

pull1D
Entries 94
Mean 0.0002866
Std Dev 0.4912

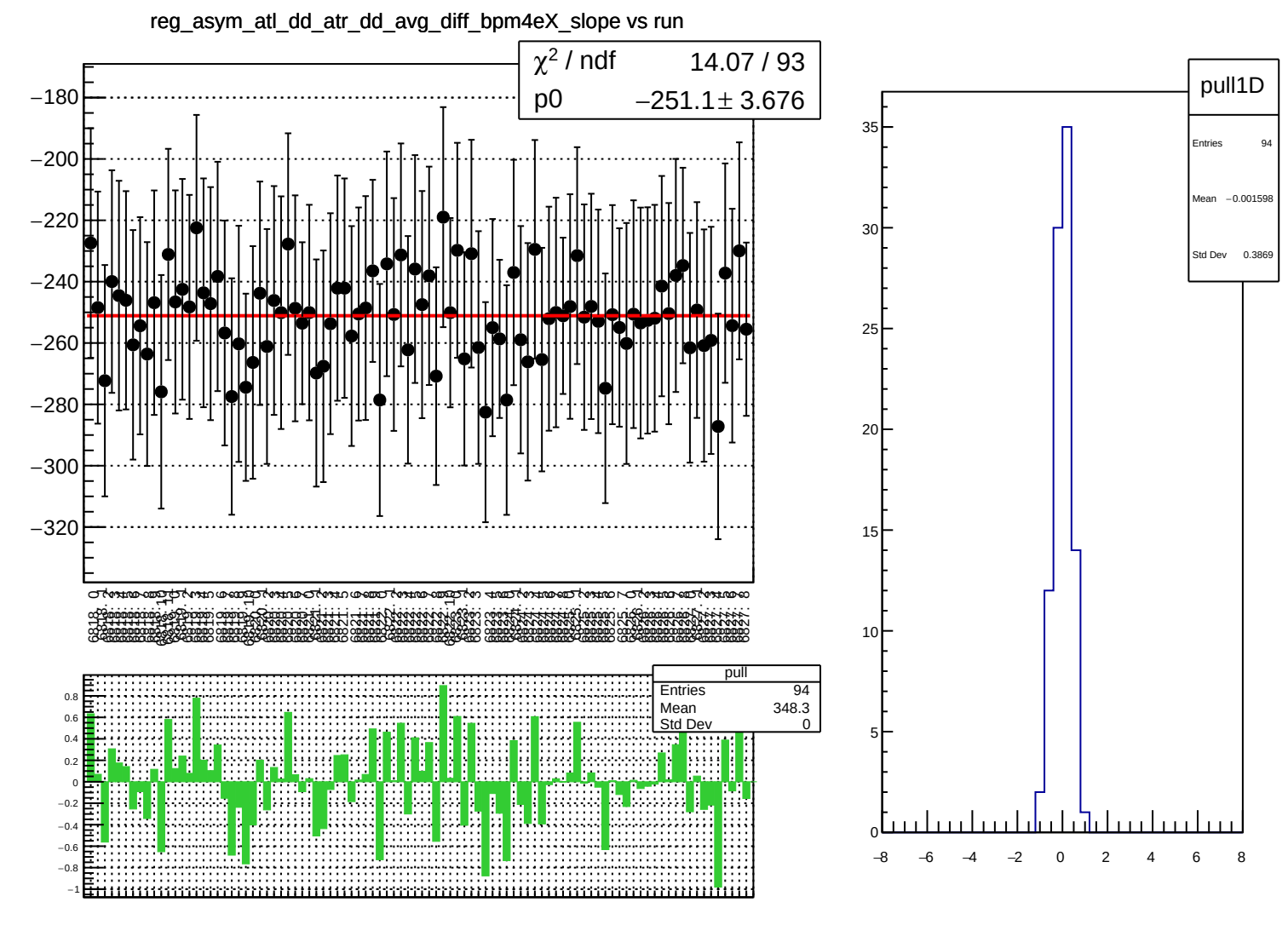

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 22.45 / 93
p0 132.4 ± 0.1682
136
135
134
133
132
131
130
129
pull
Entries 94
Mean −212.3
Std Dev 0
1
0.5
0
−0.5
−1

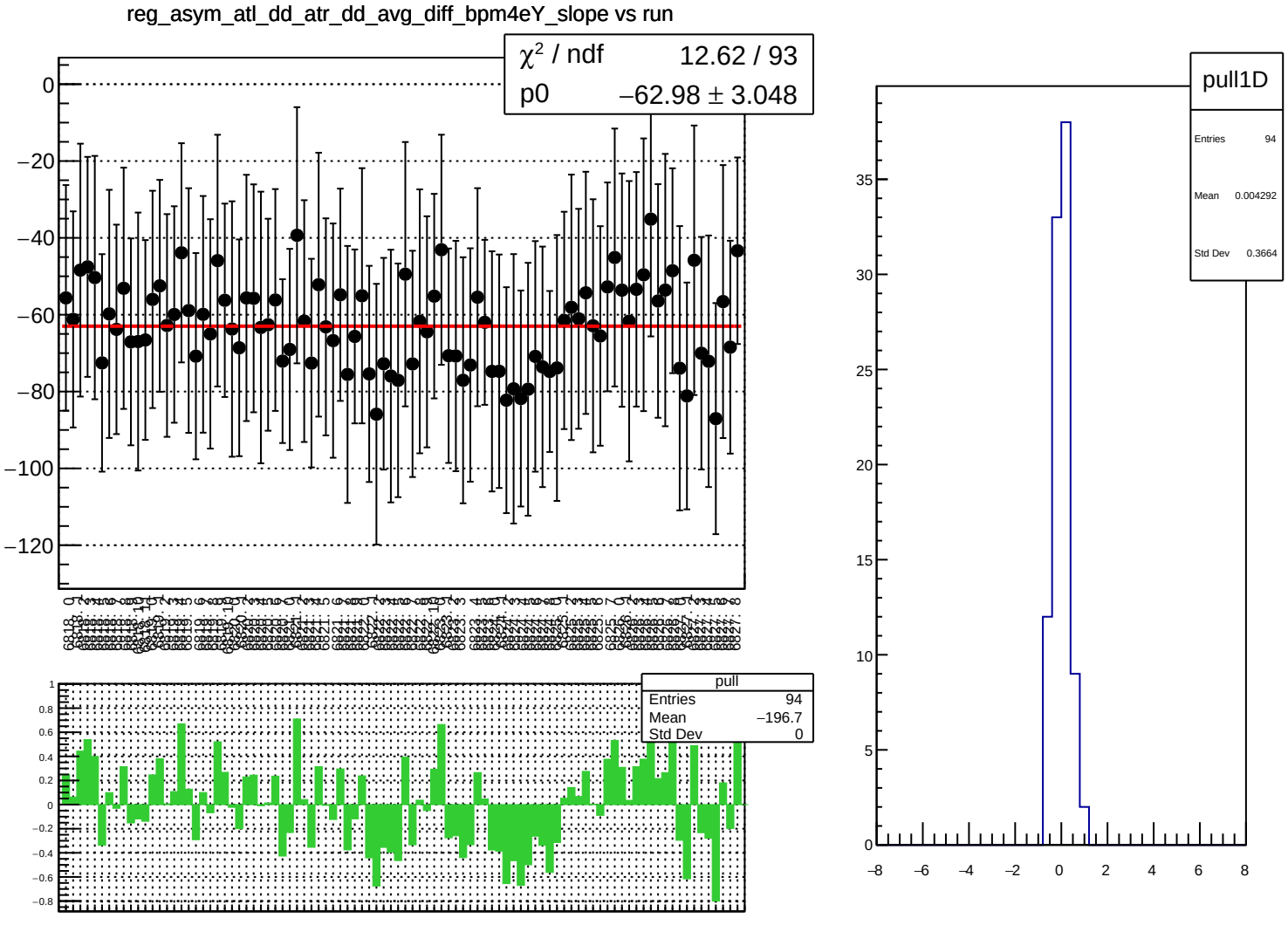

pull1D
Entries 94
Mean 0.009216
Std Dev 0.4886
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

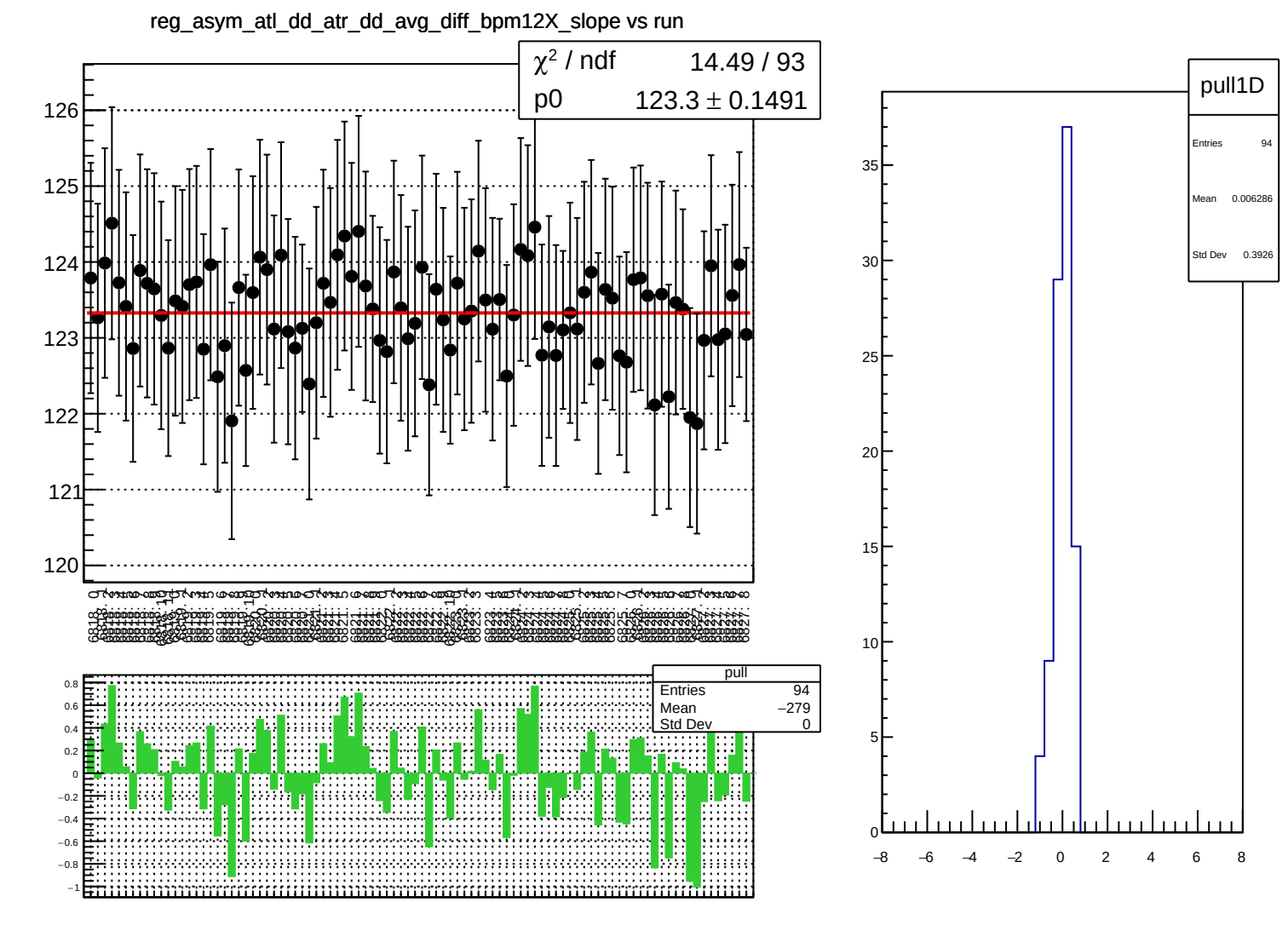

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 14.64 / 93
p0 253 ± 3.935
340
320
300
280
260
240
220
200
180
pull
Entries 94
Mean 459.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.001584
Std Dev 0.3946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

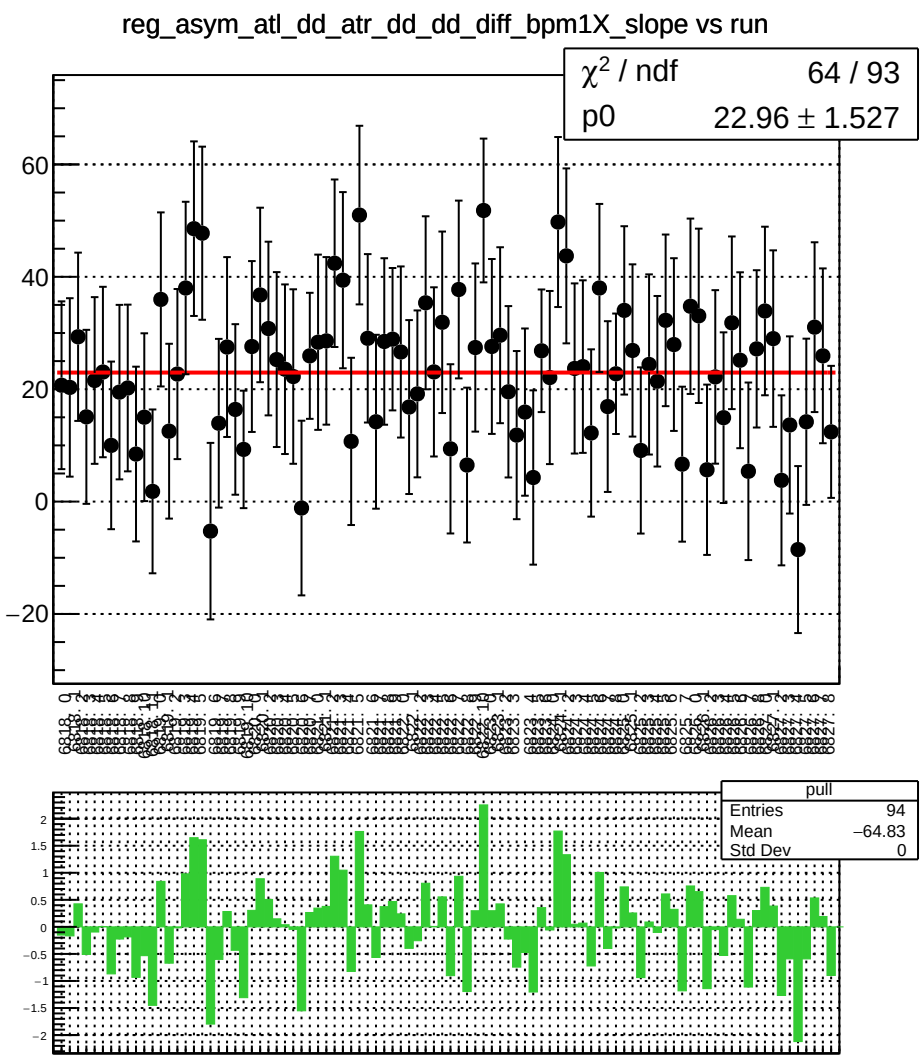

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 93
p0 −5.8 ± 2.635
pull
Entries 94
Mean 70.94
Std Dev 76.89

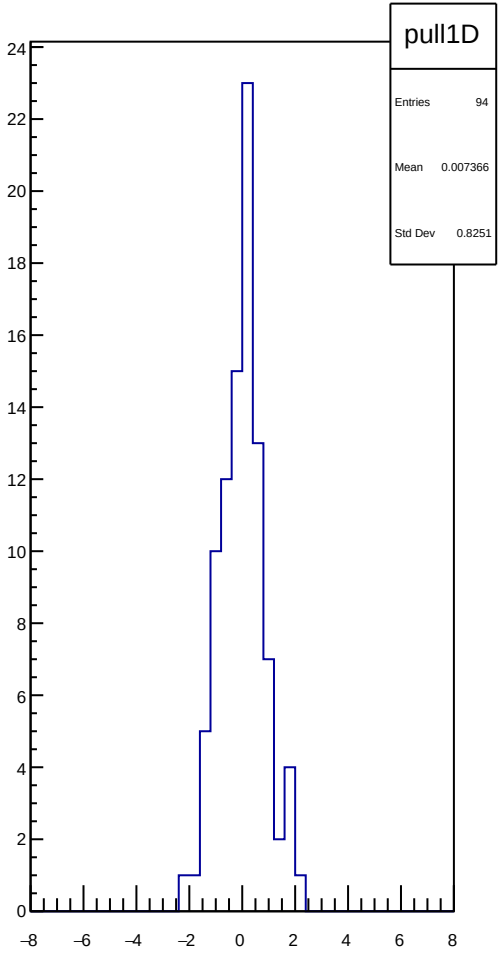

pull1D
Entries 94
Mean −0.009101
Std Dev 0.3489

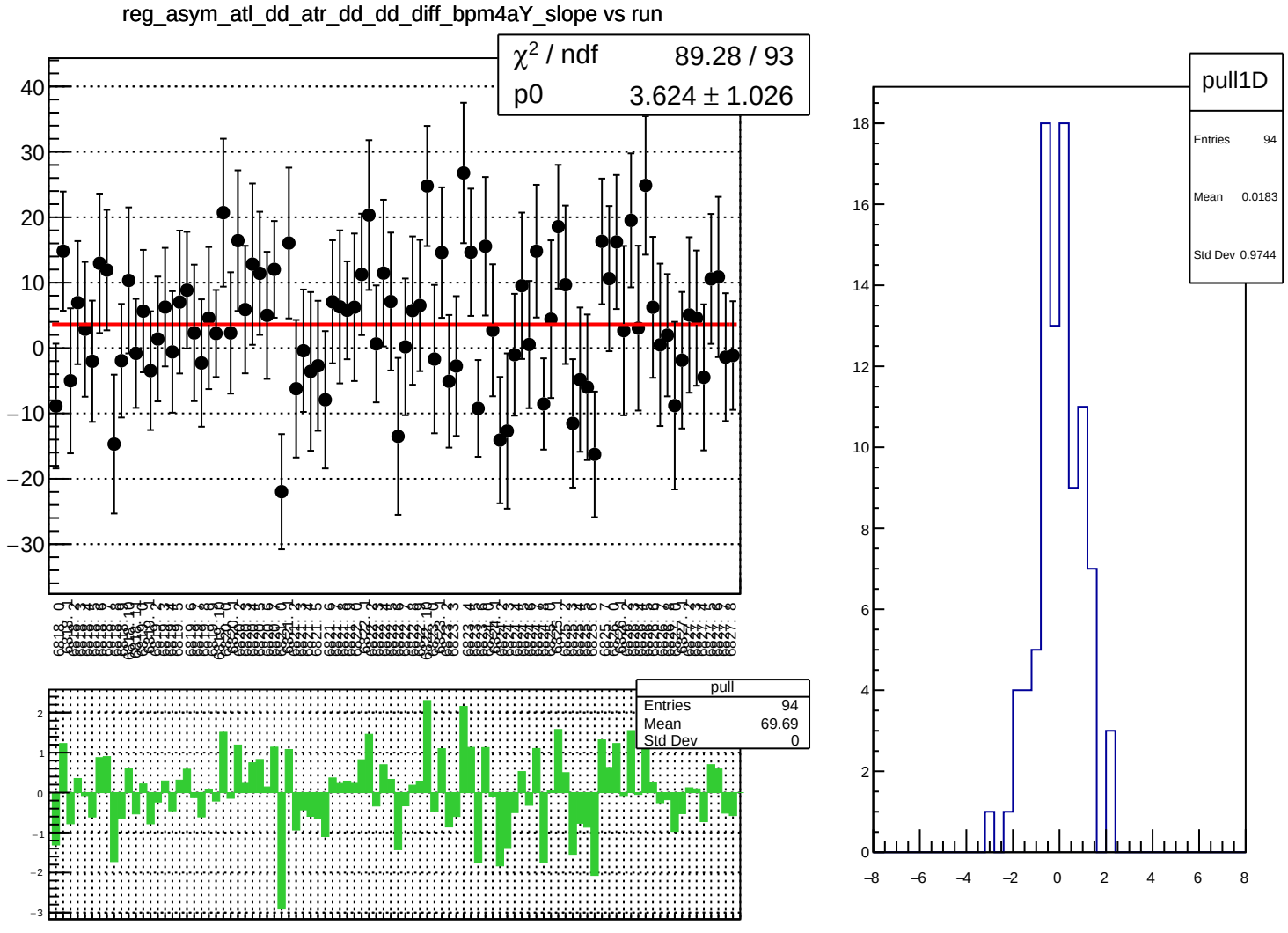

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.07 / 93
p0 −251.1 ± 3.676
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 94
Mean 348.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 94
Mean −0.001598
Std Dev 0.3869
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

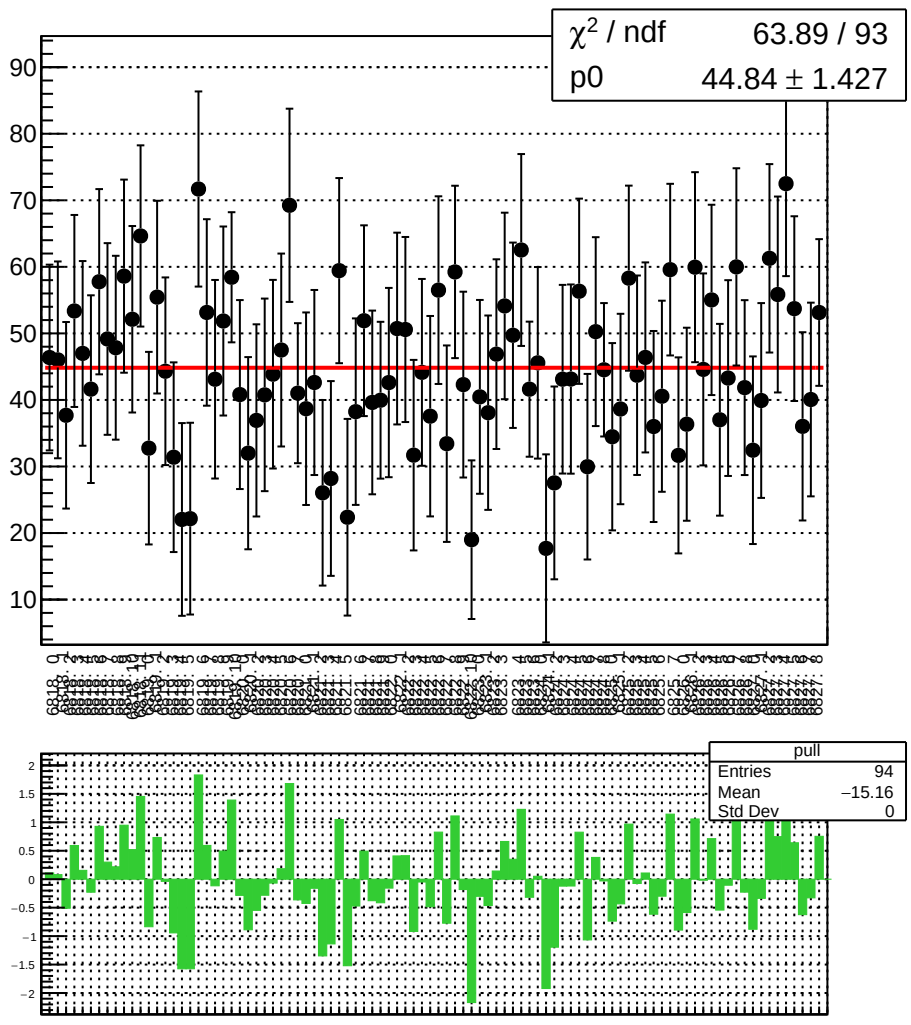

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 93
p0 −62.98 ± 3.048
pull
Entries 94
Mean −196.7
Std Dev 0
pull1D
Entries 94
Mean 0.004292
Std Dev 0.3664

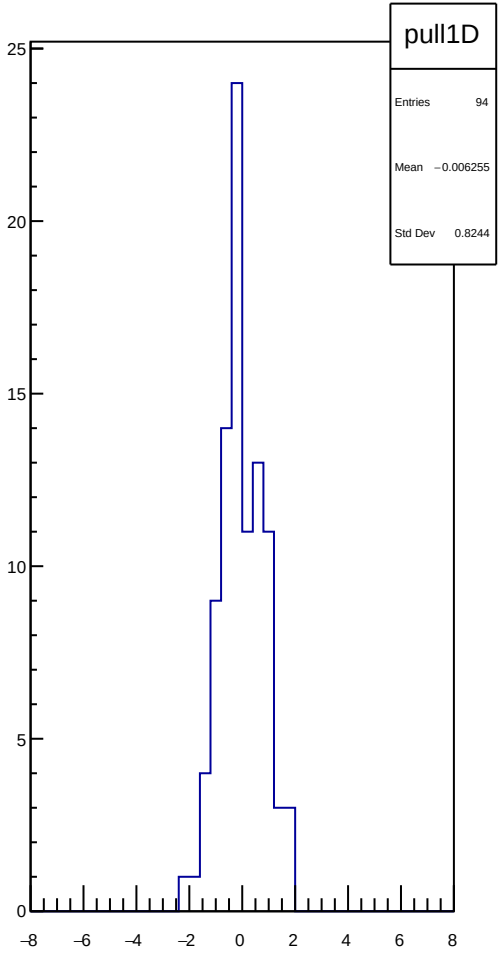

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 93
p0 123.3 ± 0.1491
126
125
124
123
122
121
120
pull
Entries 94
Mean −279
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 94
Mean 0.006286
Std Dev 0.3926
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

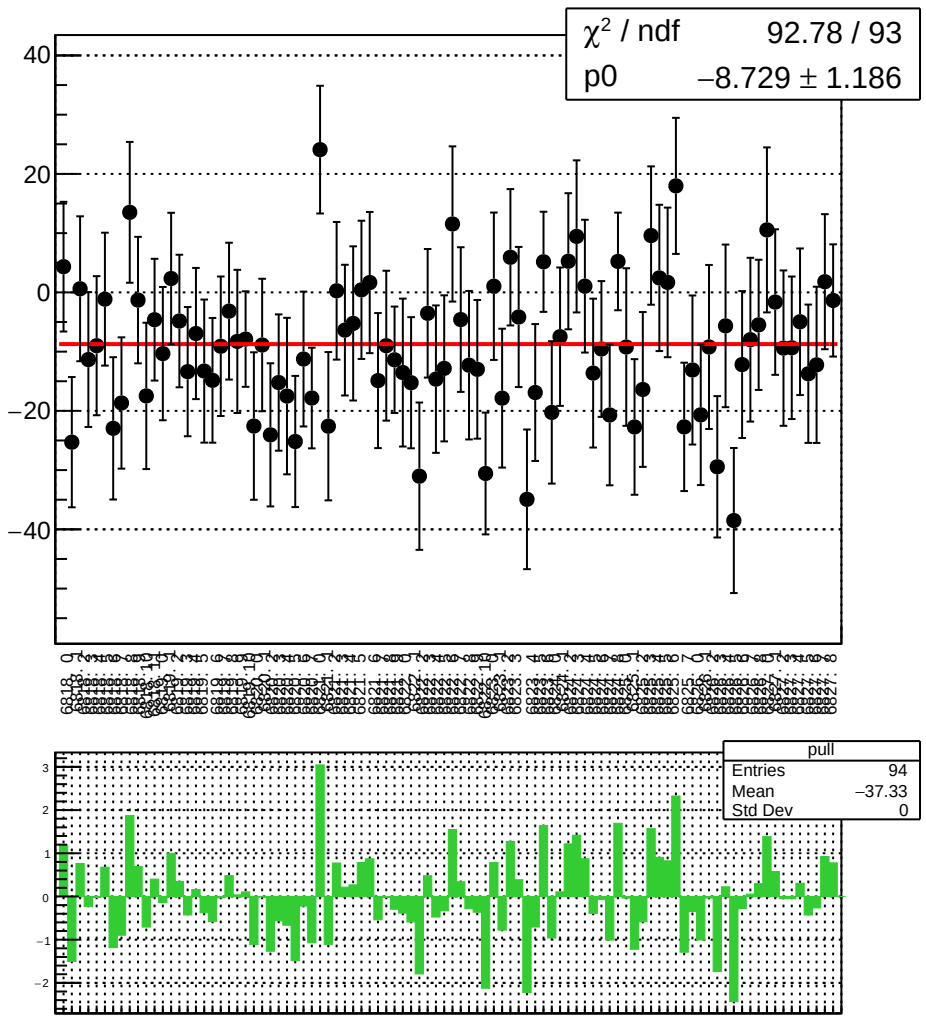

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 64 / 93
p0 22.96 ± 1.527
pull
Entries 94
Mean −64.83
Std Dev 0

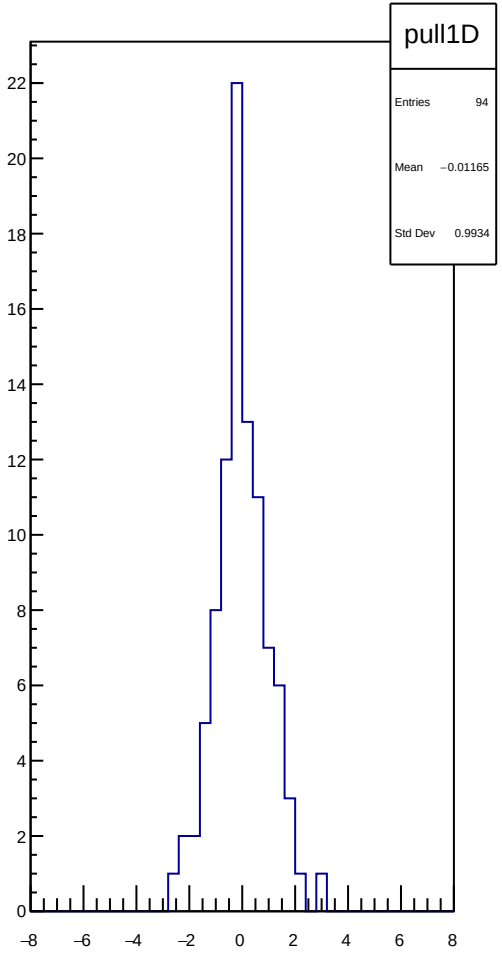

pull1D
Entries 94
Mean 0.007366
Std Dev 0.8251

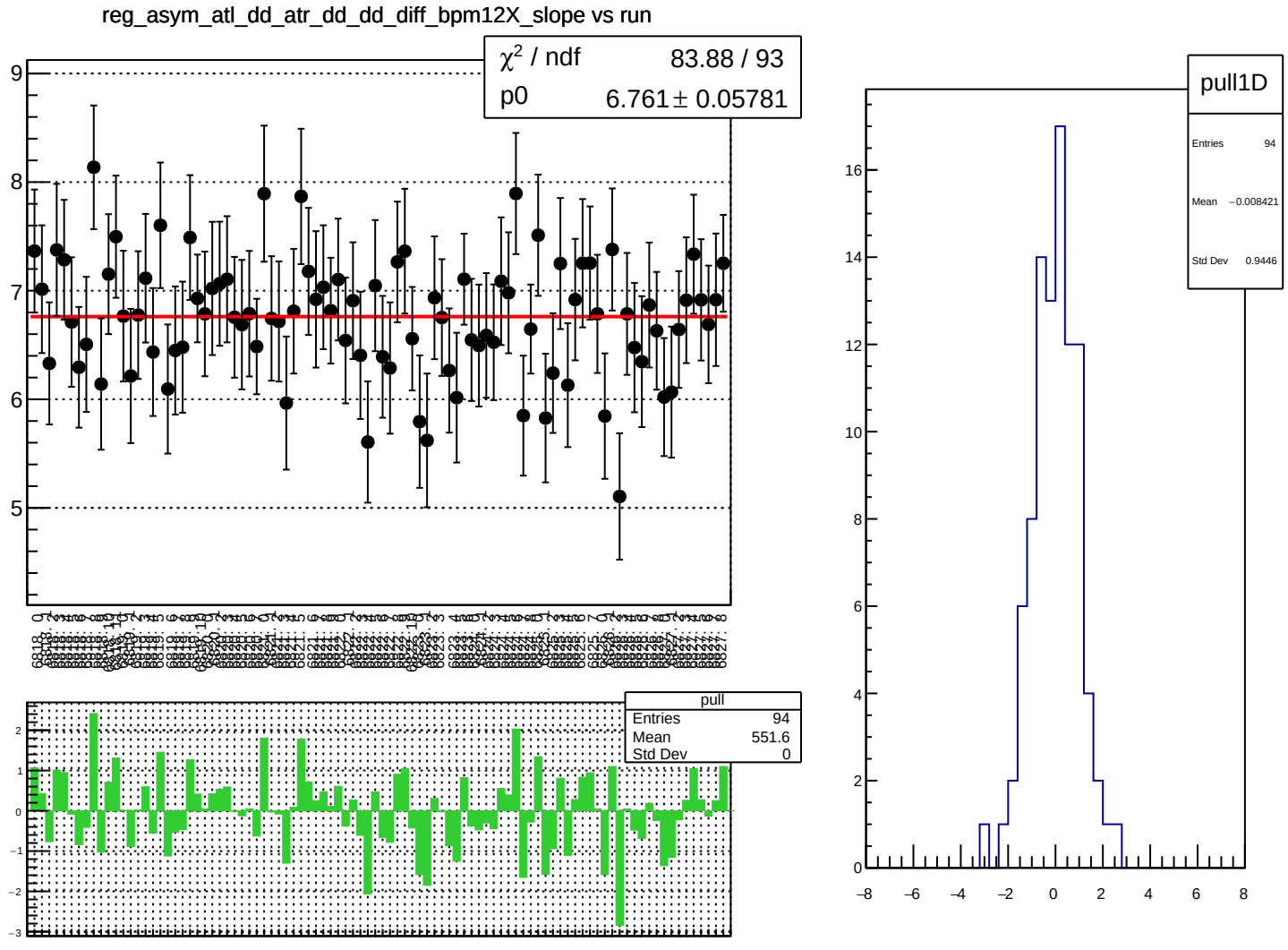

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 89.28 / 93
p0 3.624 ± 1.026
pull
Entries 94
Mean 69.69
Std Dev 0
pull1D
Entries 94
Mean 0.0183
Std Dev 0.9744

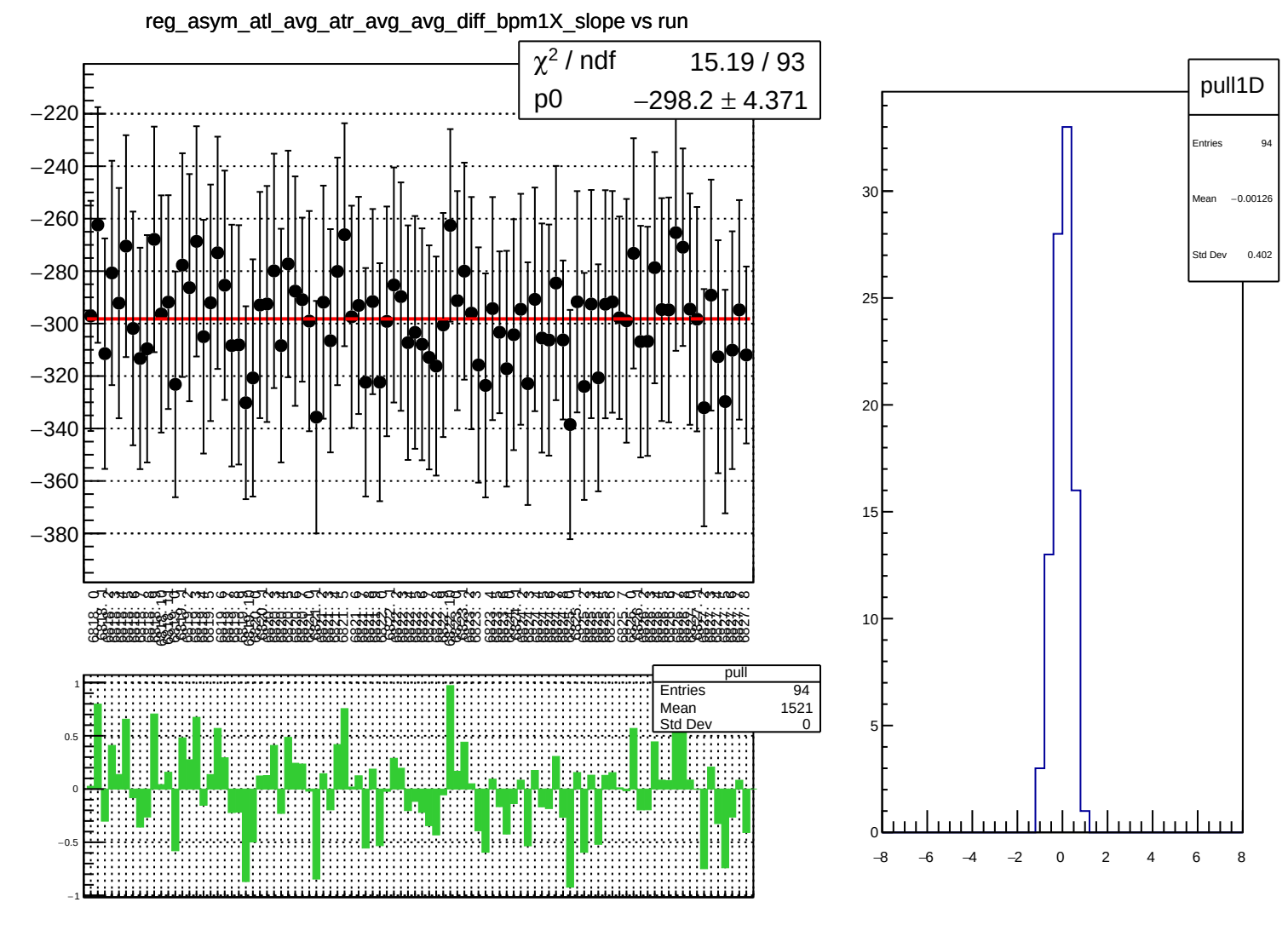

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 63.89 / 93
p0 44.84 ± 1.427
pull
Entries 94
Mean −15.16
Std Dev 0

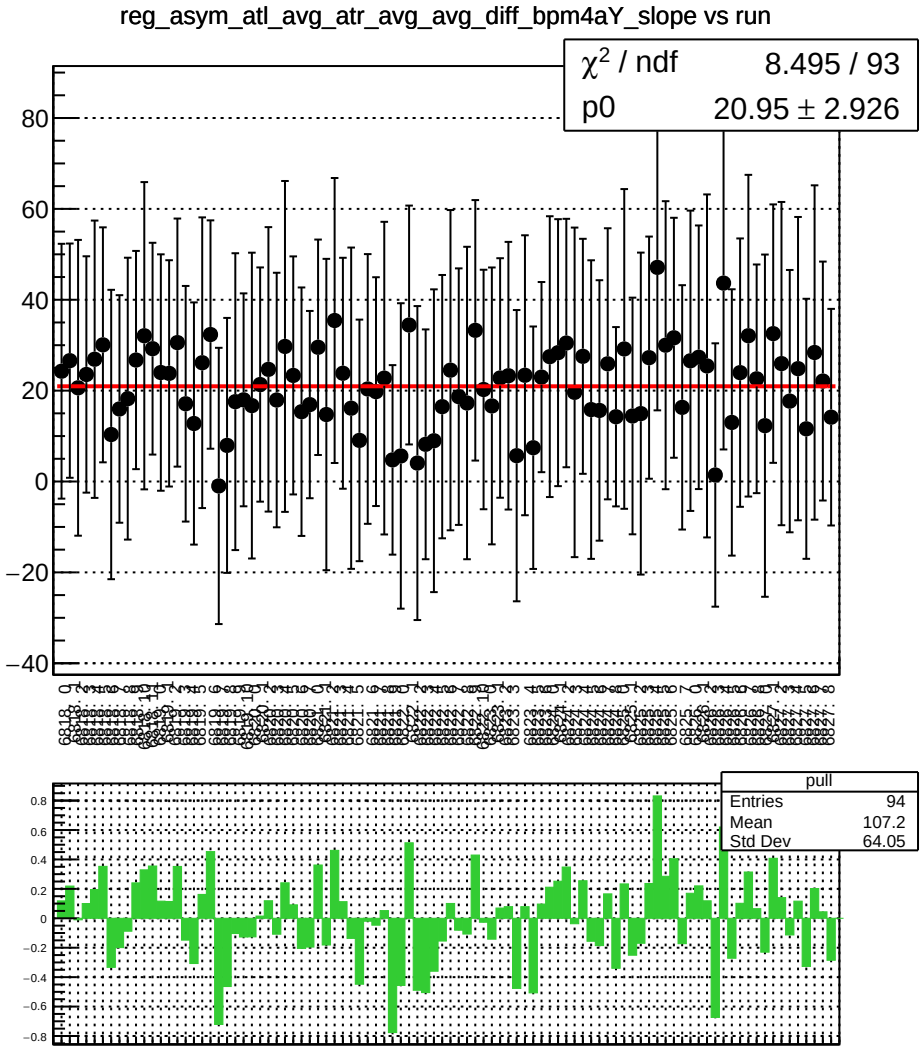

pull1D
Entries 94
Mean −0.006255
Std Dev 0.8244

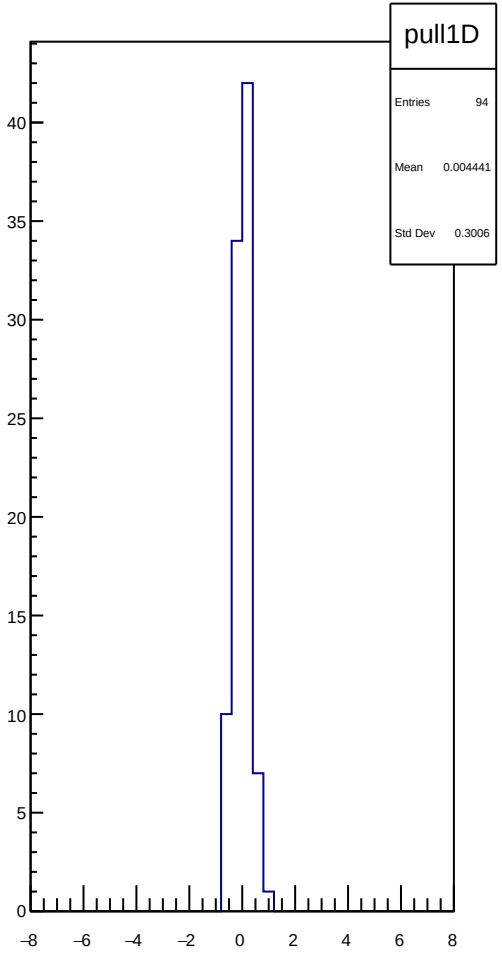

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.78 / 93
p0 −8.729 ± 1.186
pull
Entries 94
Mean −37.33
Std Dev 0

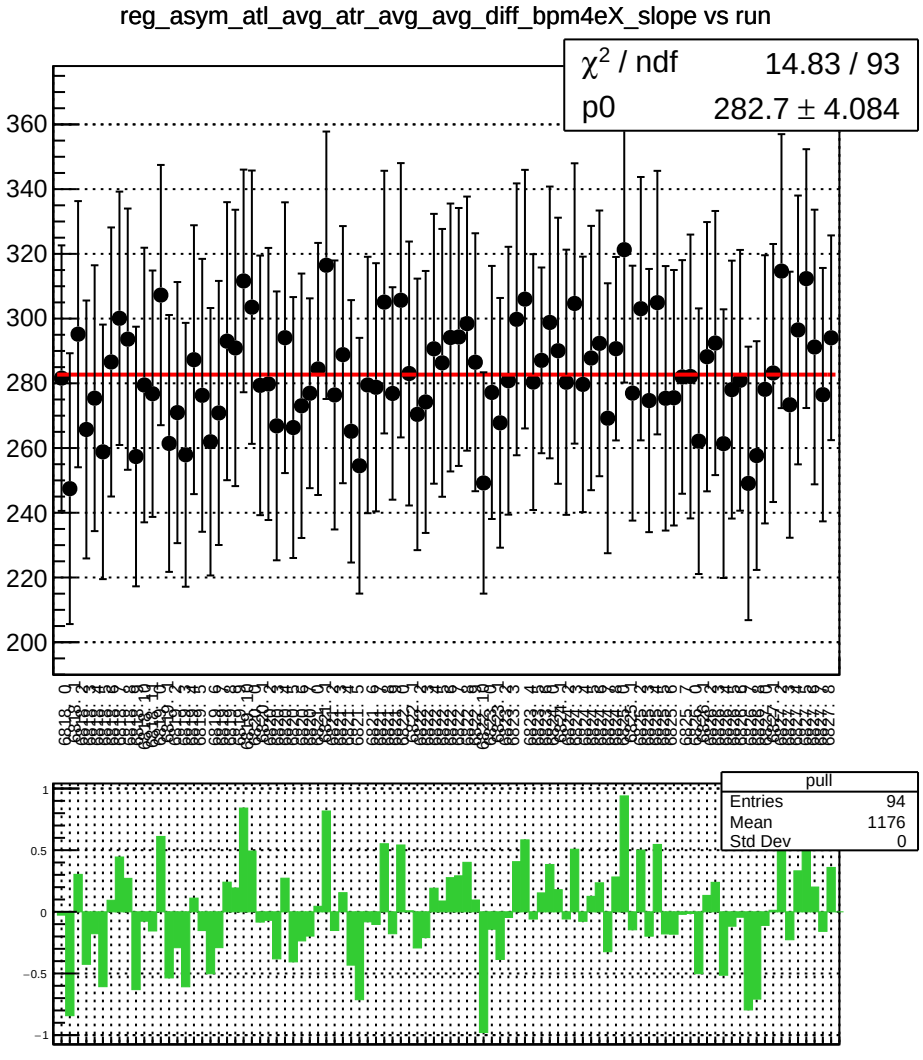

pull1D
Entries 94
Mean −0.01165
Std Dev 0.9934

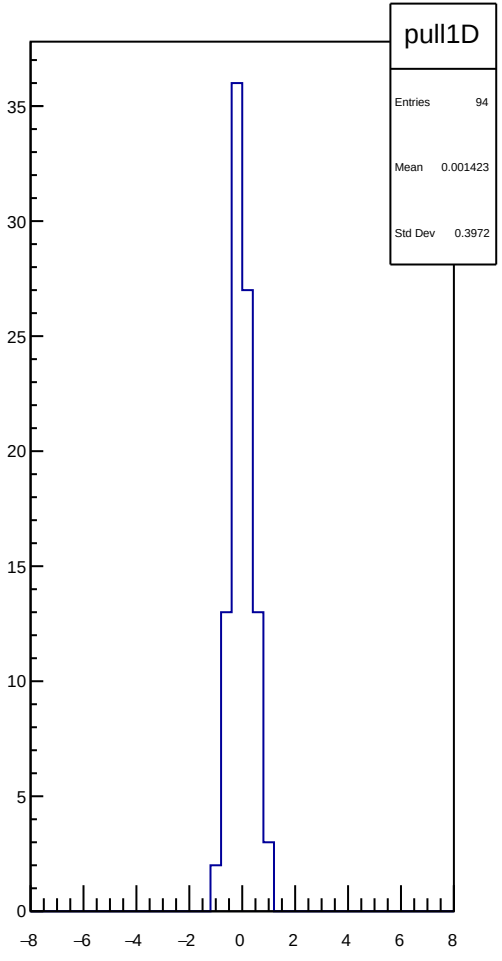

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 83.88 / 93
p0 6.761 ± 0.05781
pull
Entries 94
Mean 551.6
Std Dev 0
pull1D
Entries 94
Mean −0.008421
Std Dev 0.9446

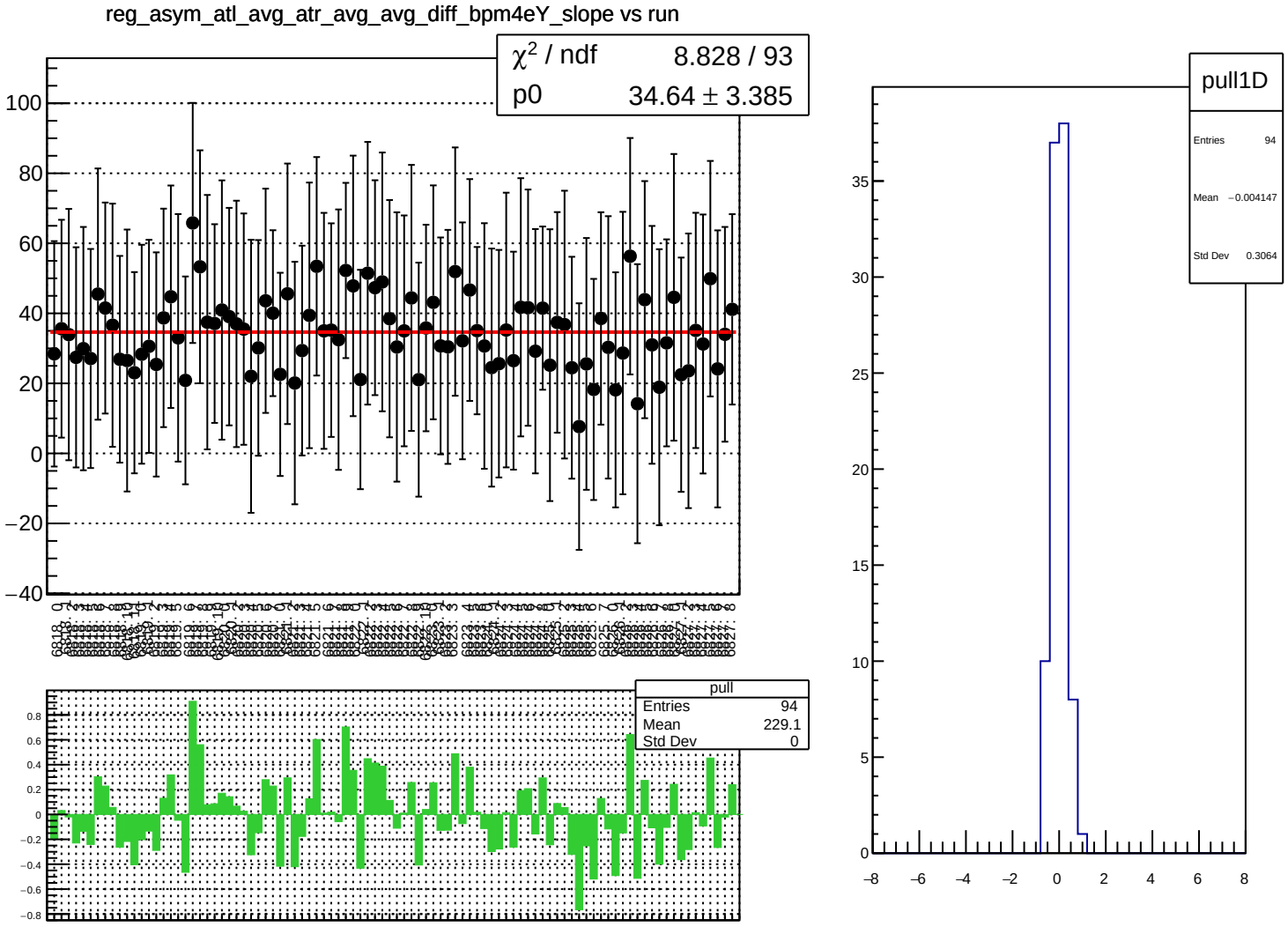

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 15.19 / 93
p0 −298.2 ± 4.371
−220
−240
−260
−280
−300
−320
−340
−360
−380
pull
Entries 94
Mean 1521
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.00126
Std Dev 0.402
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

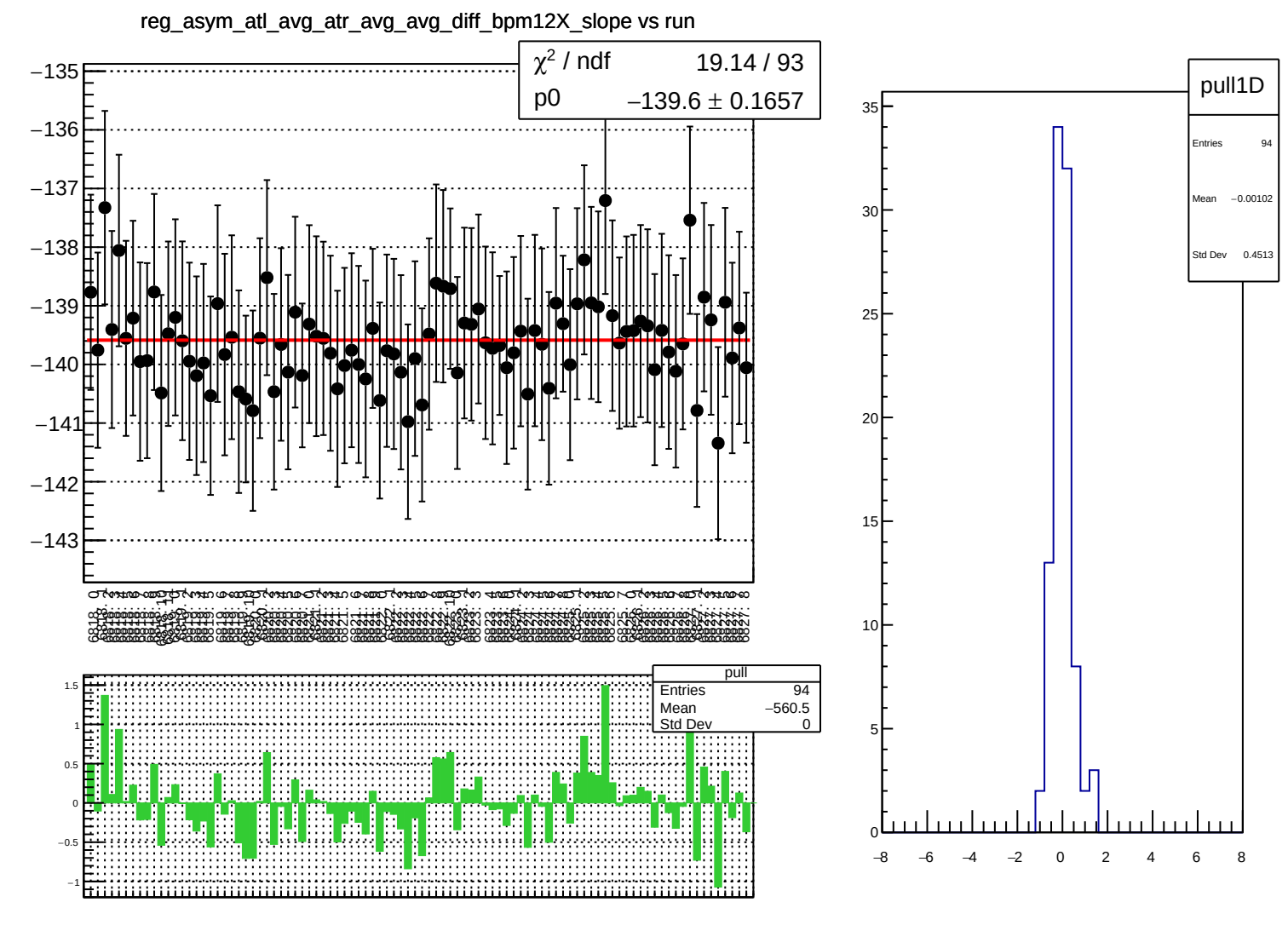

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.495 / 93
p0 20.95 ± 2.926
pull
Entries 94
Mean 107.2
Std Dev 64.05

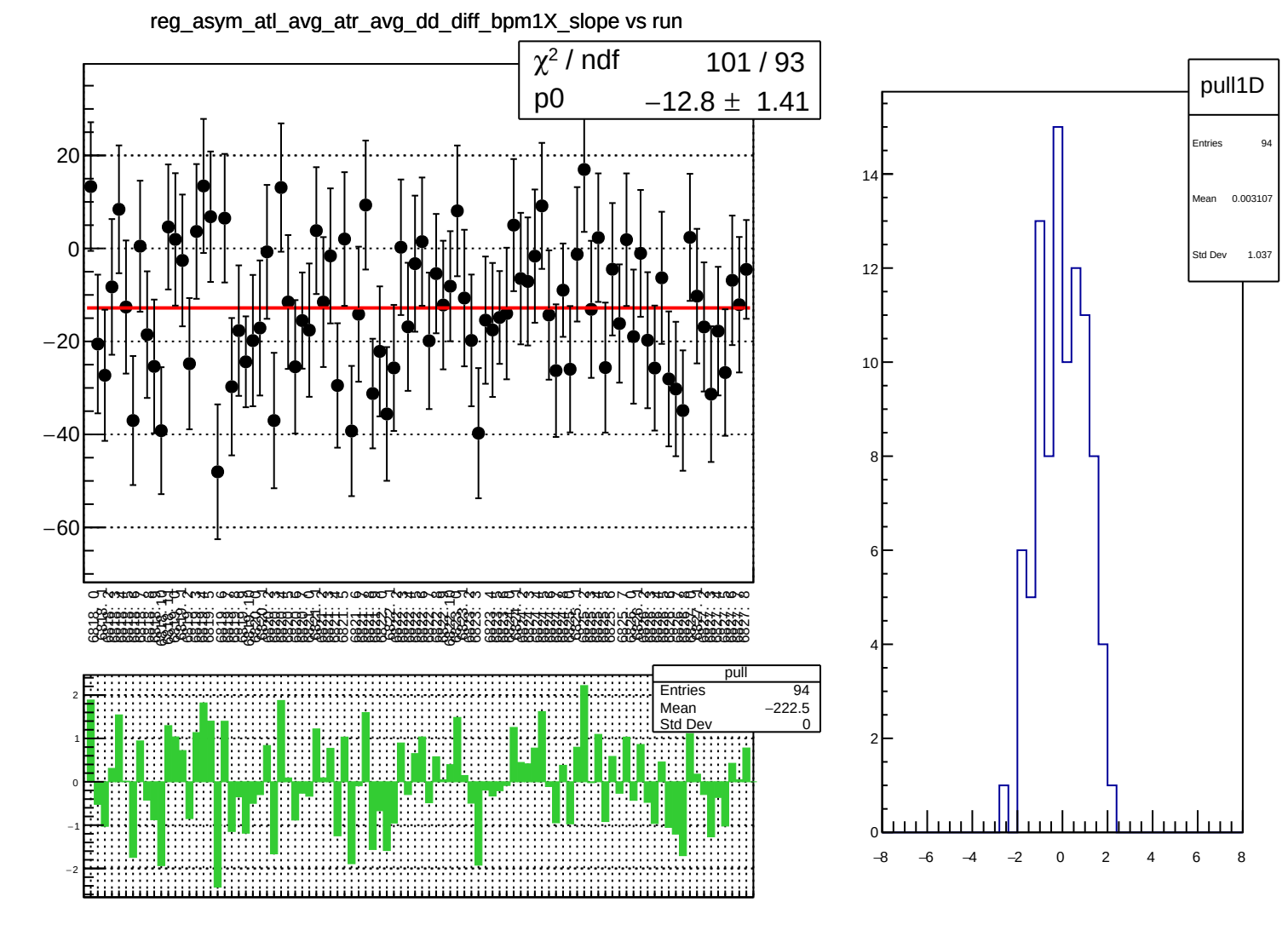

pull1D
Entries 94
Mean 0.004441
Std Dev 0.3006

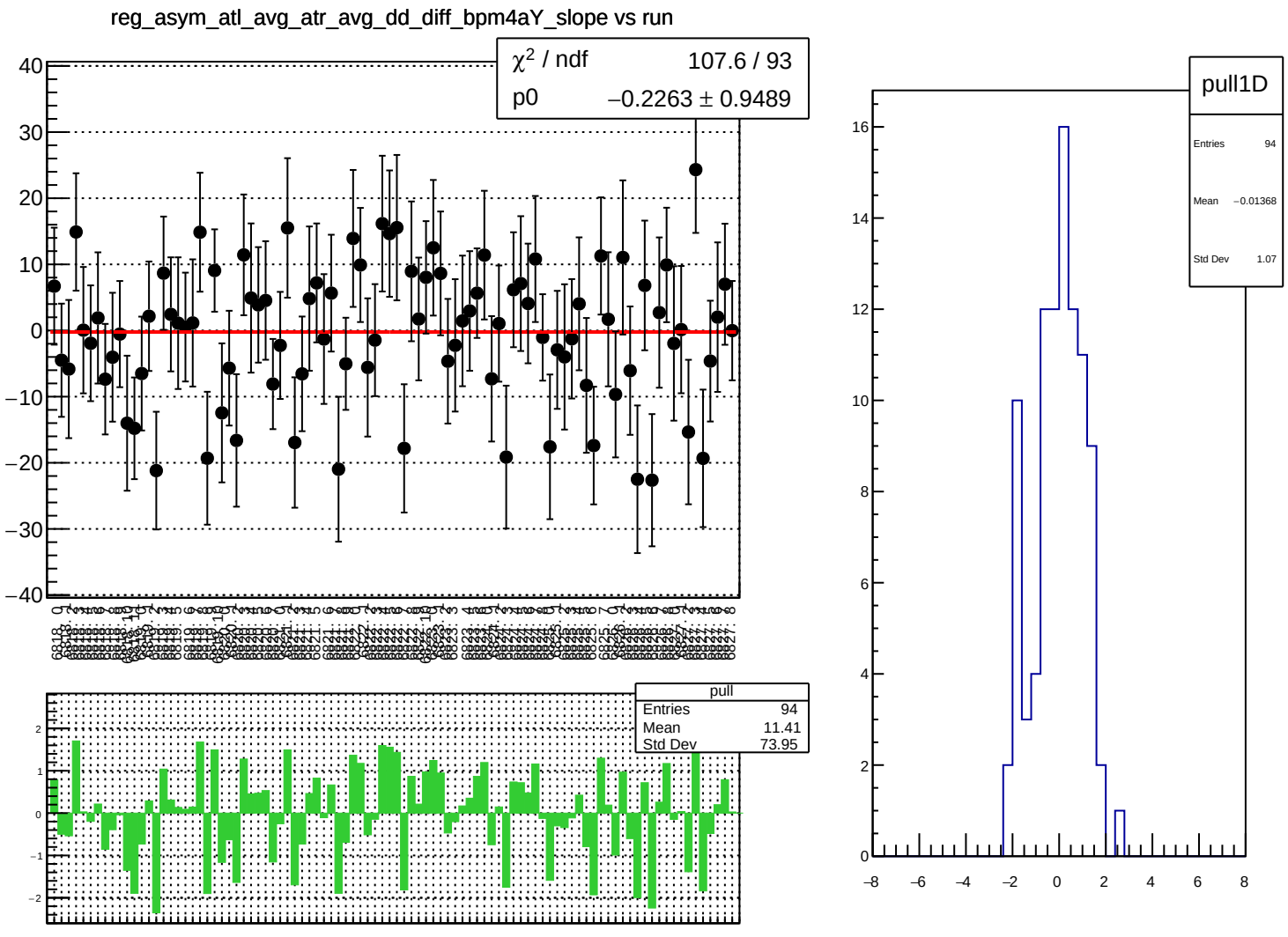

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.83 / 93
p0 282.7 ± 4.084
pull
Entries 94
Mean 1176
Std Dev 0

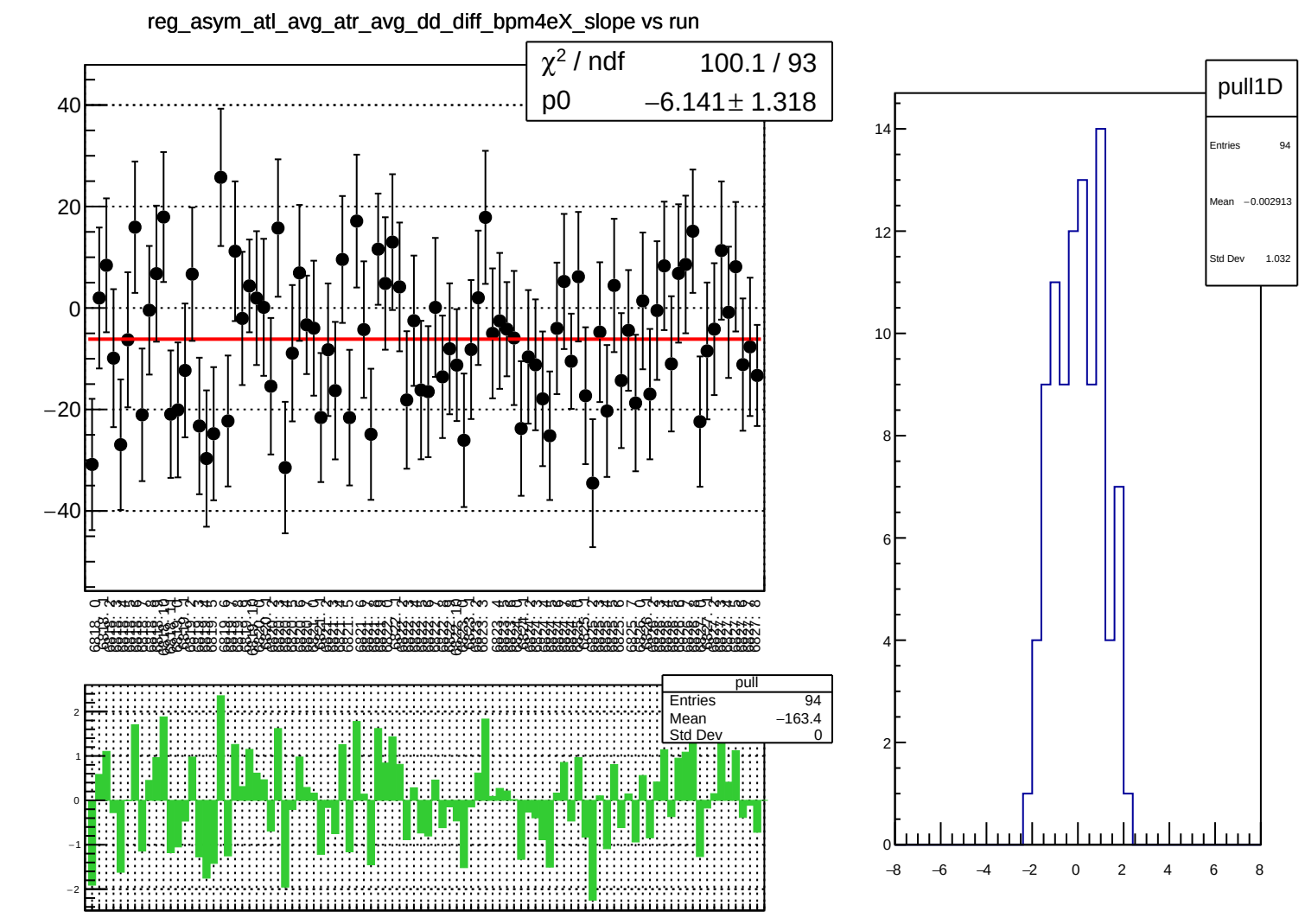

pull1D
Entries 94
Mean 0.001423
Std Dev 0.3972

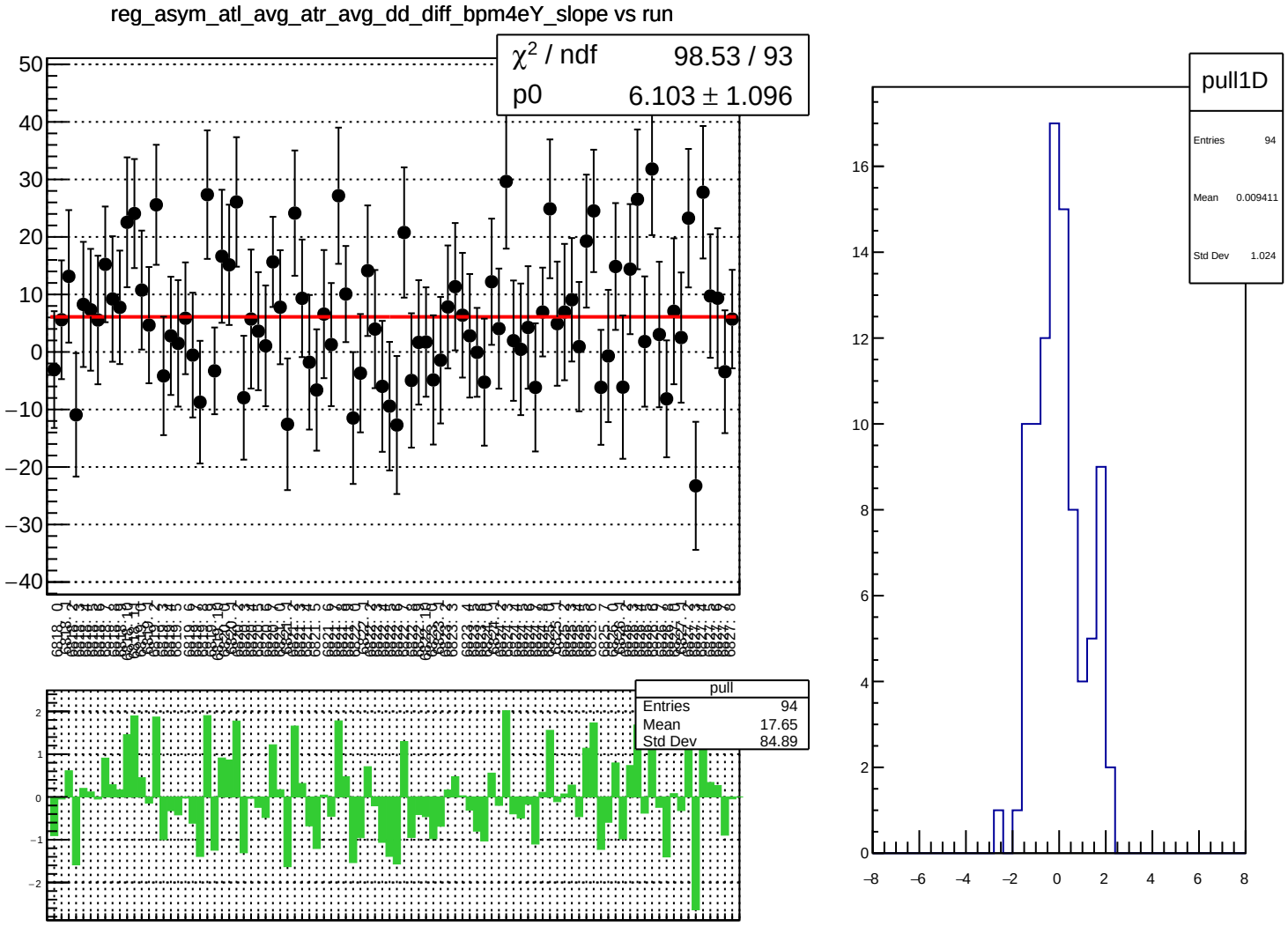

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.828 / 93
p0 34.64 ± 3.385
pull
Entries 94
Mean 229.1
Std Dev 0
pull1D
Entries 94
Mean −0.004147
Std Dev 0.3064

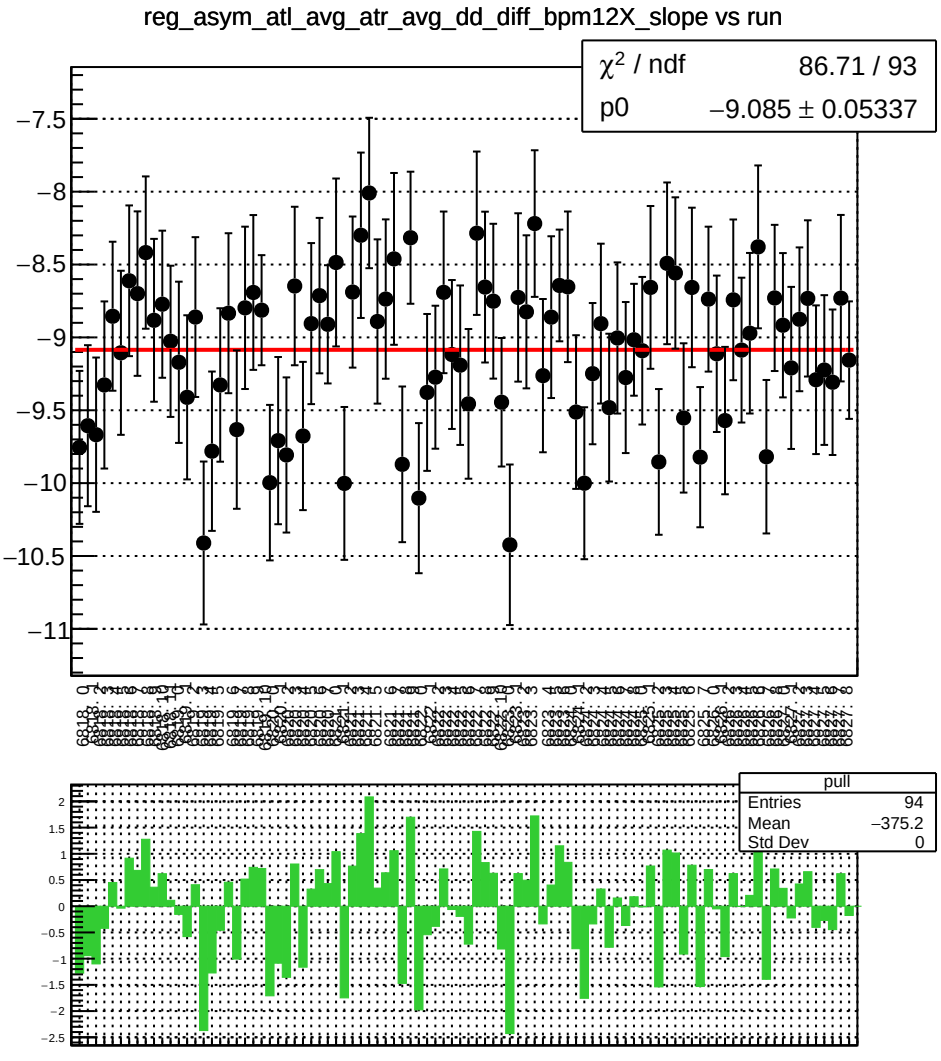

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 19.14 / 93
p0 −139.6 ± 0.1657
pull
Entries 94
Mean −560.5
Std Dev 0
pull1D
Entries 94
Mean −0.00102
Std Dev 0.4513

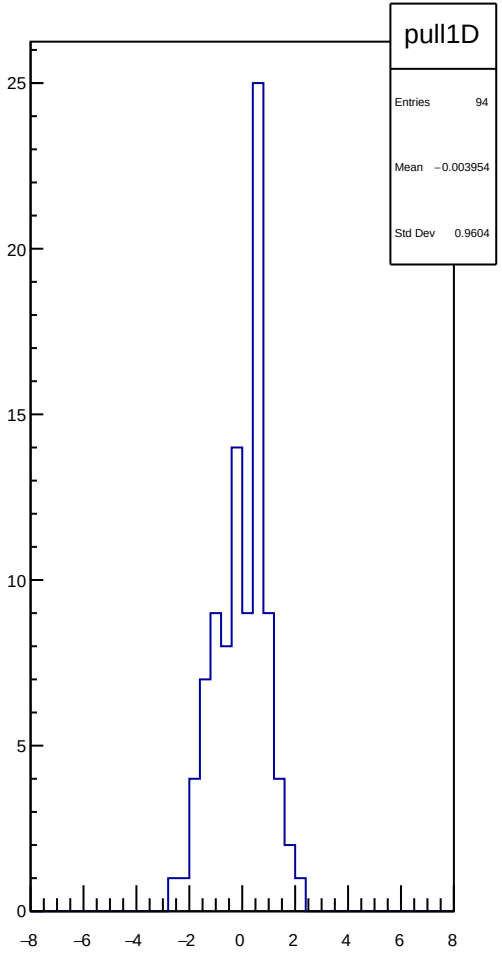

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 101 / 93
p0 −12.8 ± 1.41
pull
Entries 94
Mean −222.5
Std Dev 0
pull1D
Entries 94
Mean 0.003107
Std Dev 1.037

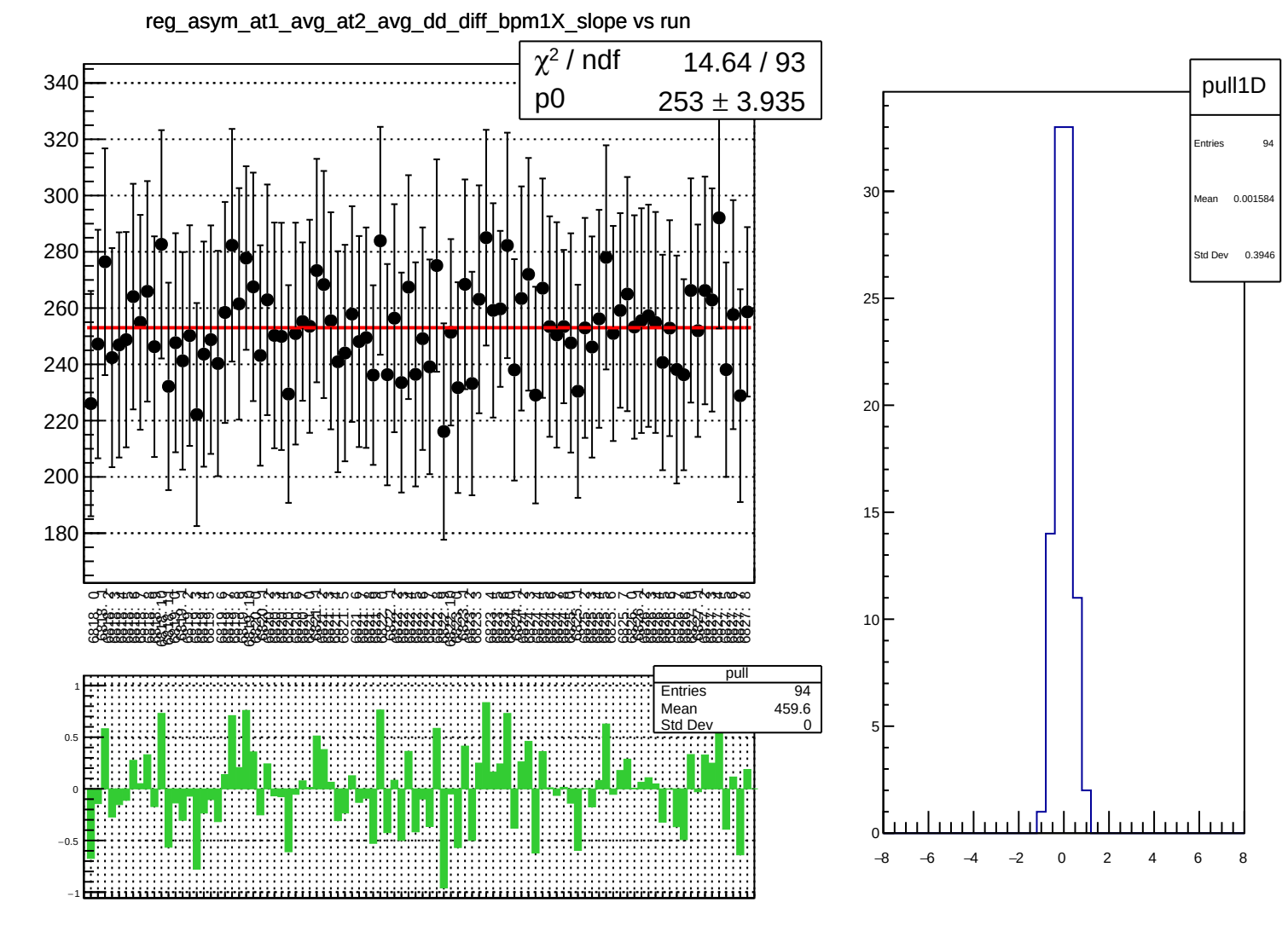

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 107.6 / 93
p0 −0.2263 ± 0.9489
pull
Entries 94
Mean 11.41
Std Dev 73.95
pull1D
Entries 94
Mean −0.01368
Std Dev 1.07

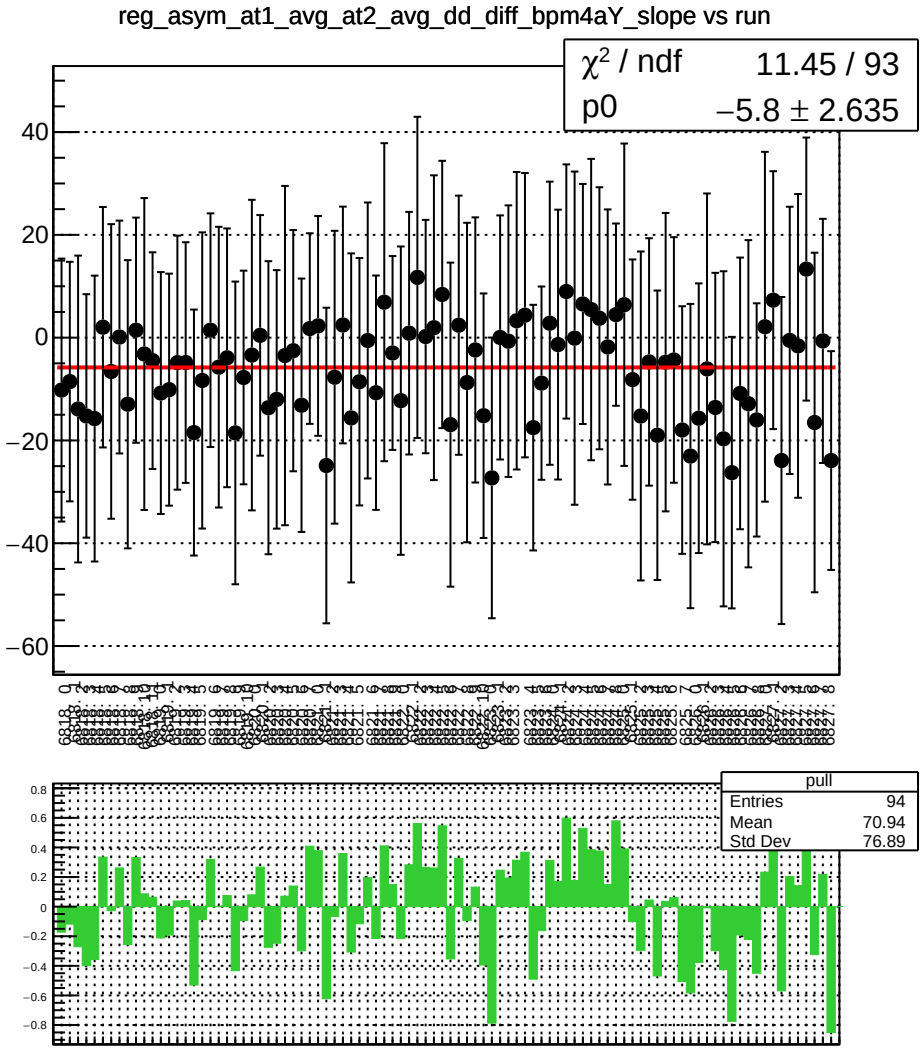

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 93
p0 −6.141 ± 1.318
pull
Entries 94
Mean −163.4
Std Dev 0
pull1D
Entries 94
Mean −0.002913
Std Dev 1.032

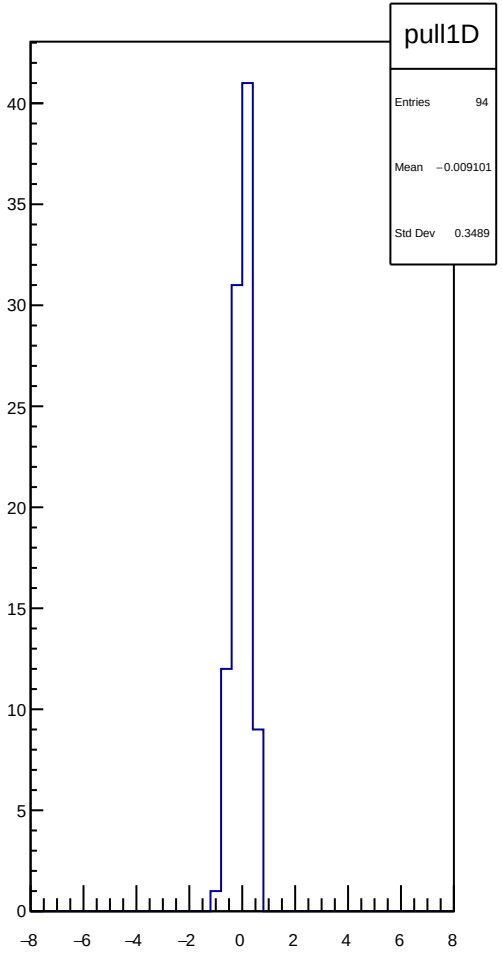

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 98.53 / 93
p0 6.103 ± 1.096
pull
Entries 94
Mean 17.65
Std Dev 84.89
pull1D
Entries 94
Mean 0.009411
Std Dev 1.024

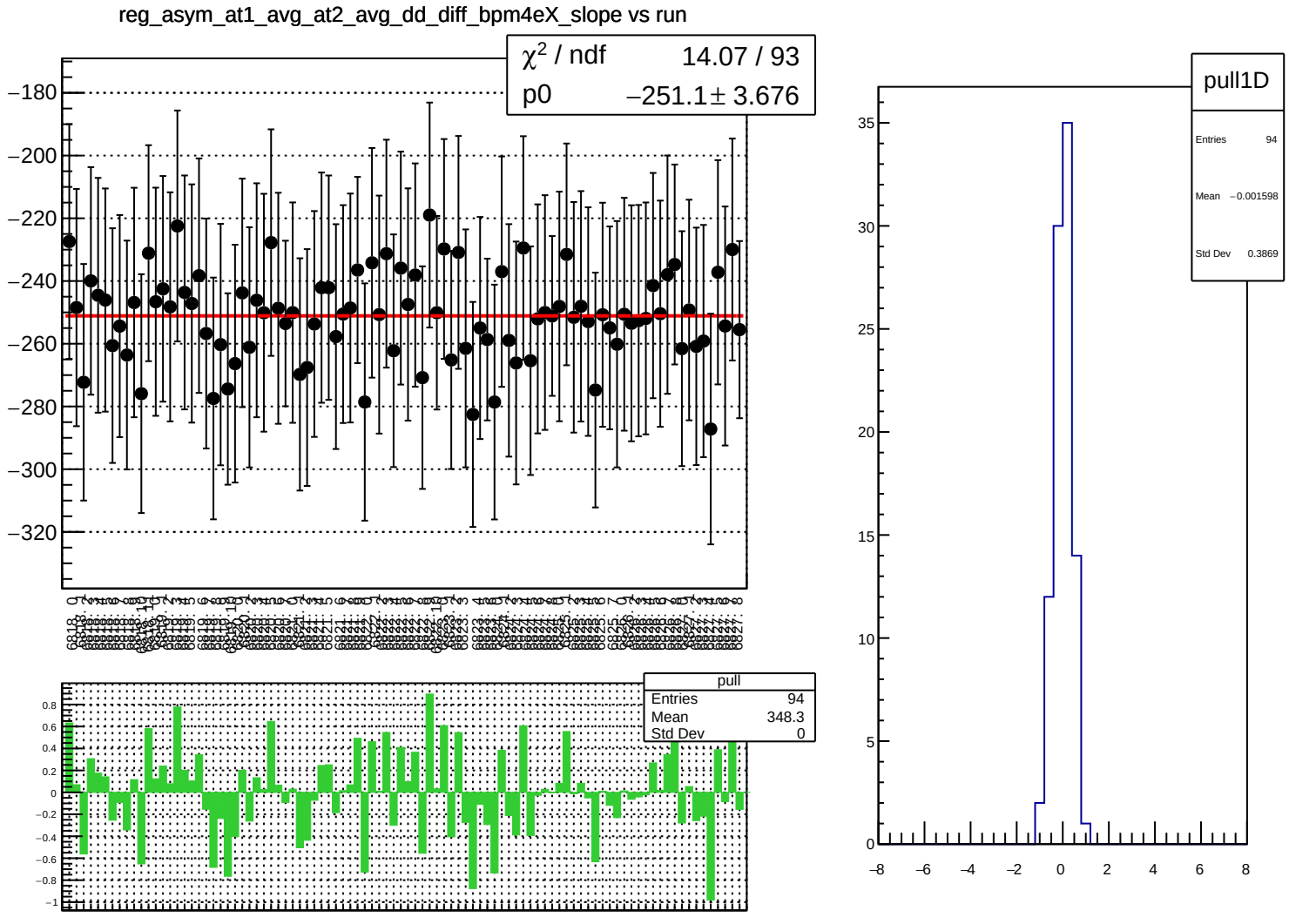

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 86.71 / 93
p0 −9.085 ± 0.05337
pull
Entries 94
Mean −375.2
Std Dev 0

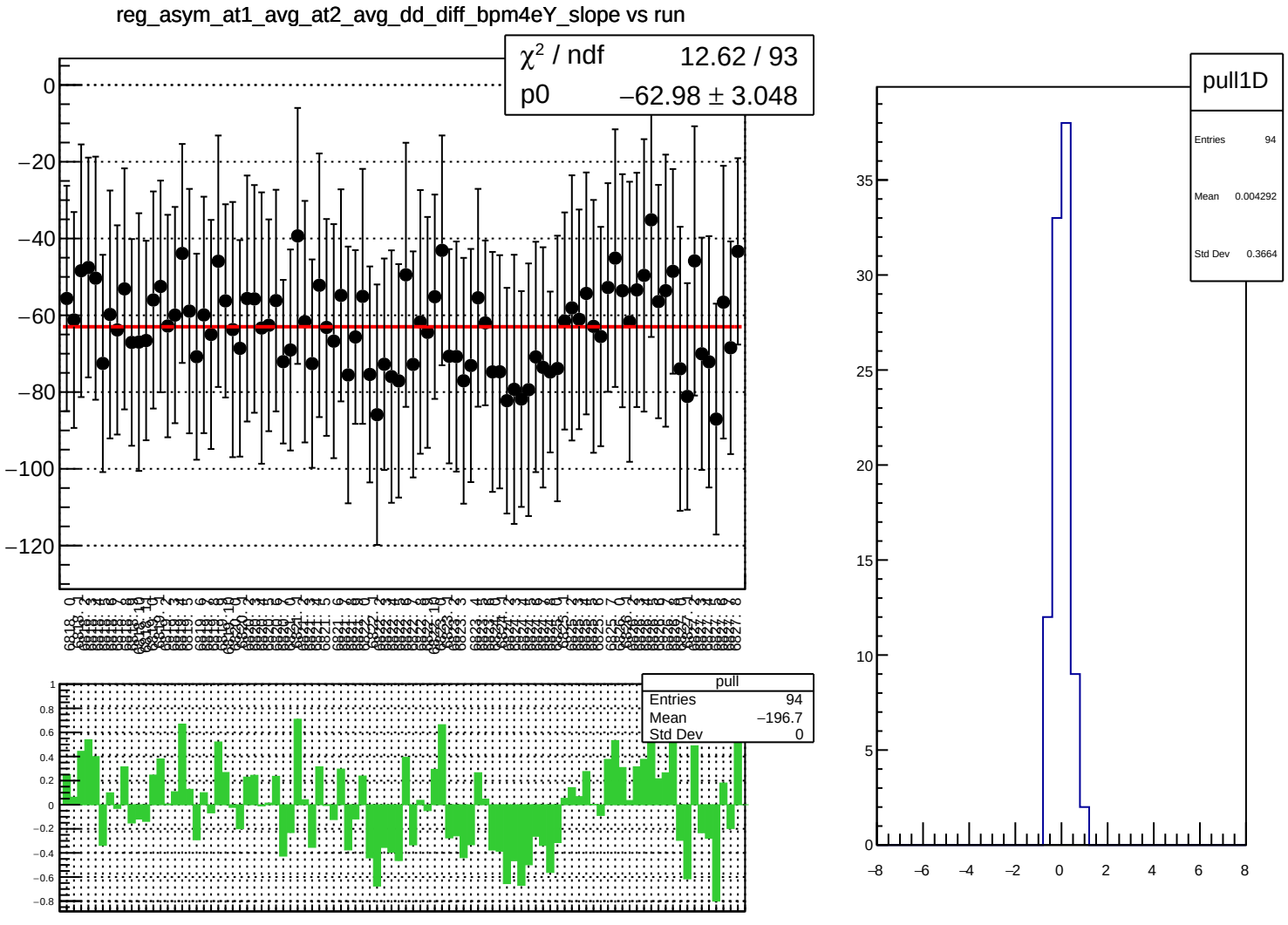

pull1D
Entries 94
Mean −0.003954
Std Dev 0.9604

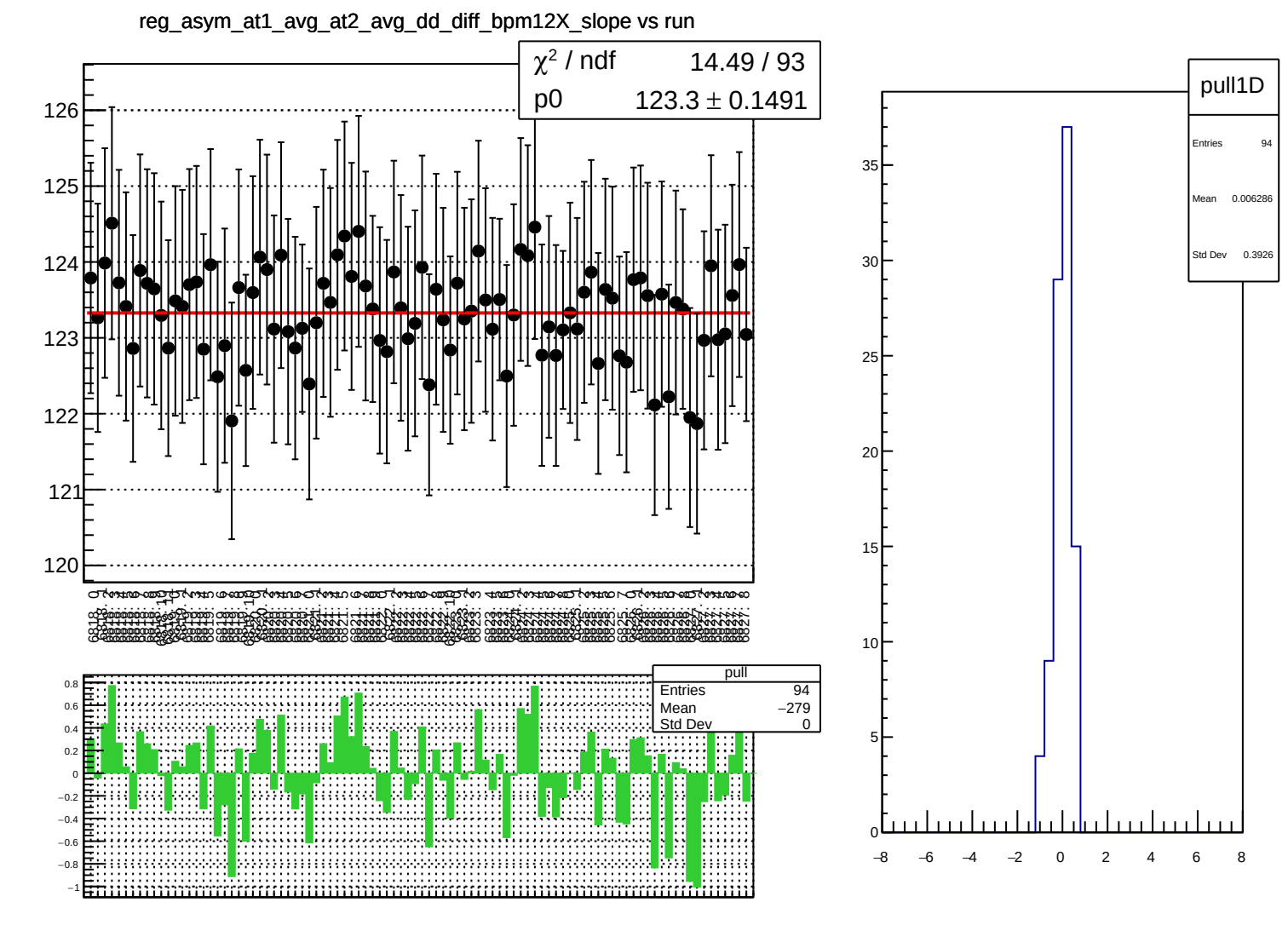

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 14.64 / 93
p0 253 ± 3.935
340
320
300
280
260
240
220
200
180
pull
Entries 94
Mean 459.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.001584
Std Dev 0.3946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

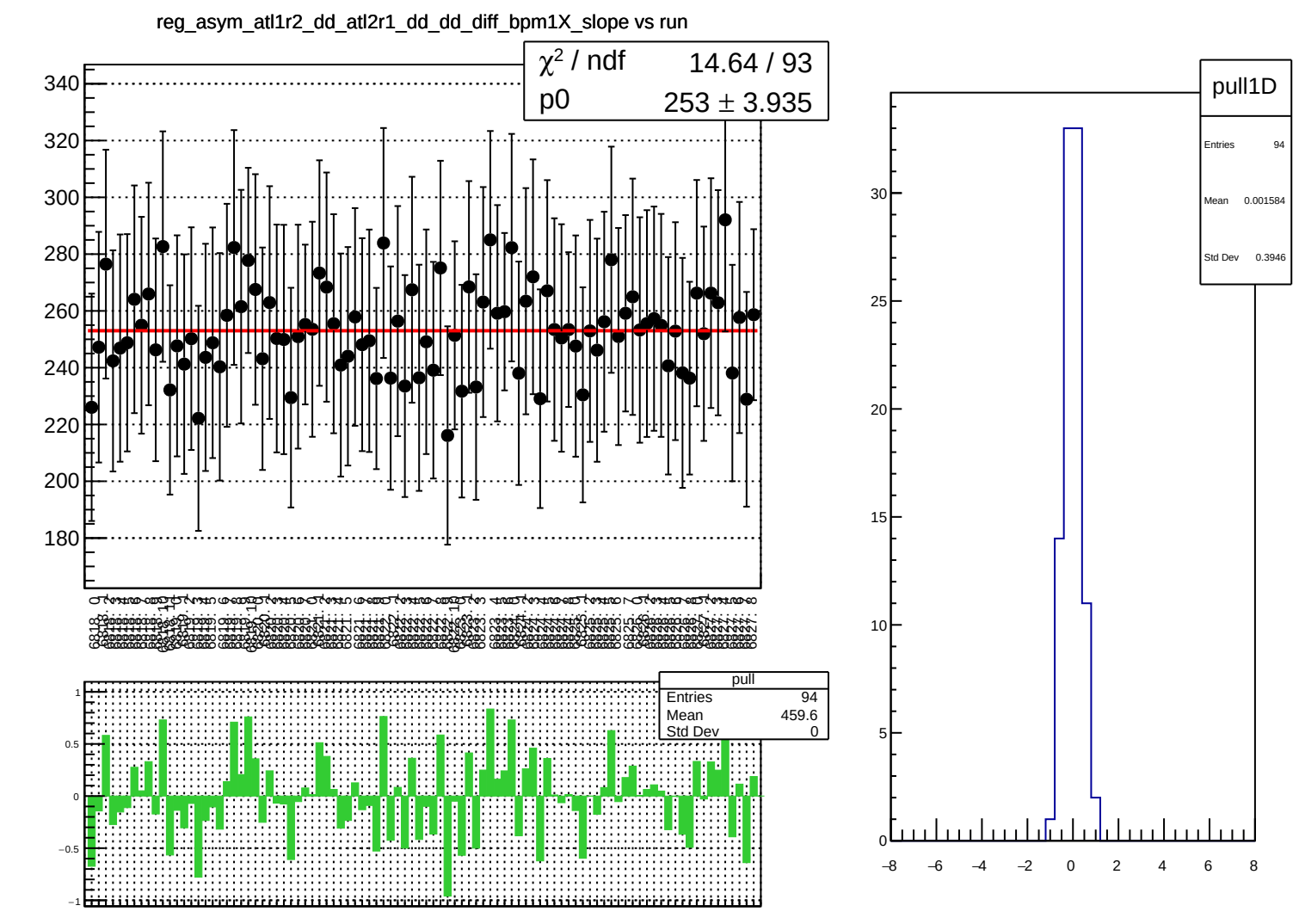

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 93
p0 −5.8 ± 2.635
pull
Entries 94
Mean 70.94
Std Dev 76.89

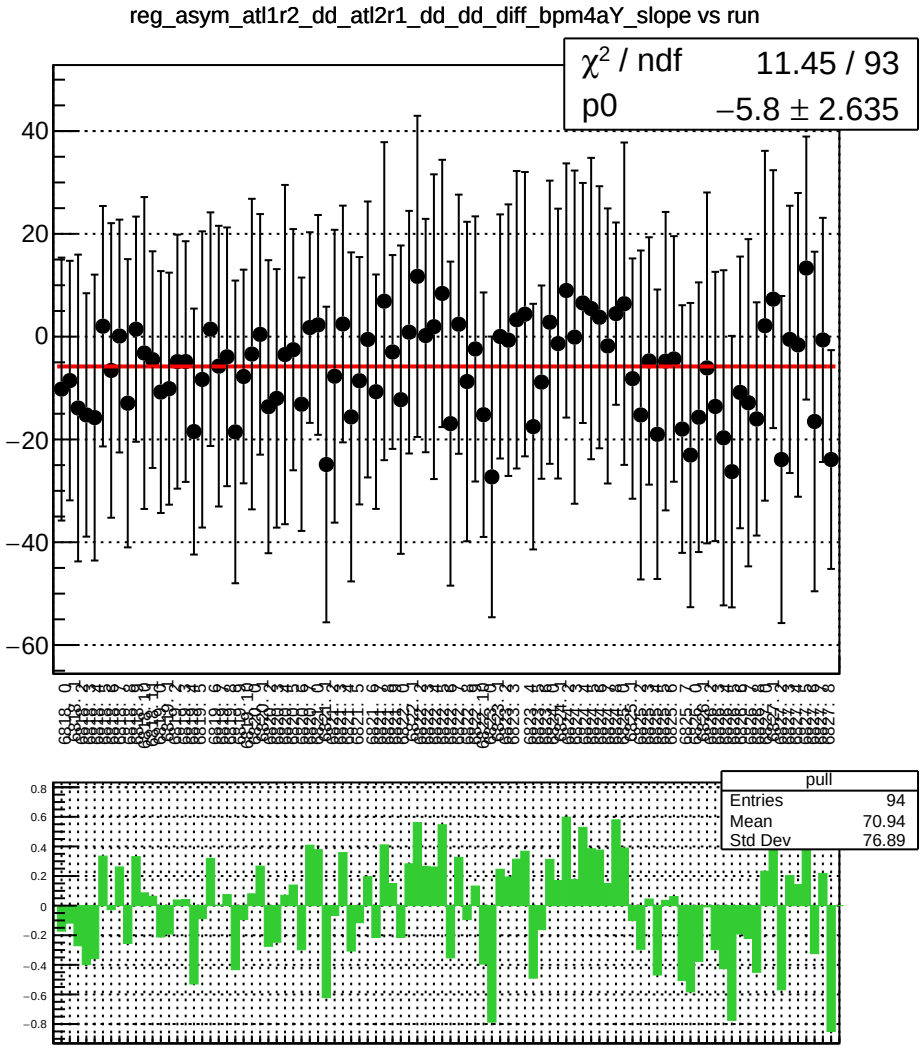

pull1D
Entries 94
Mean −0.009101
Std Dev 0.3489

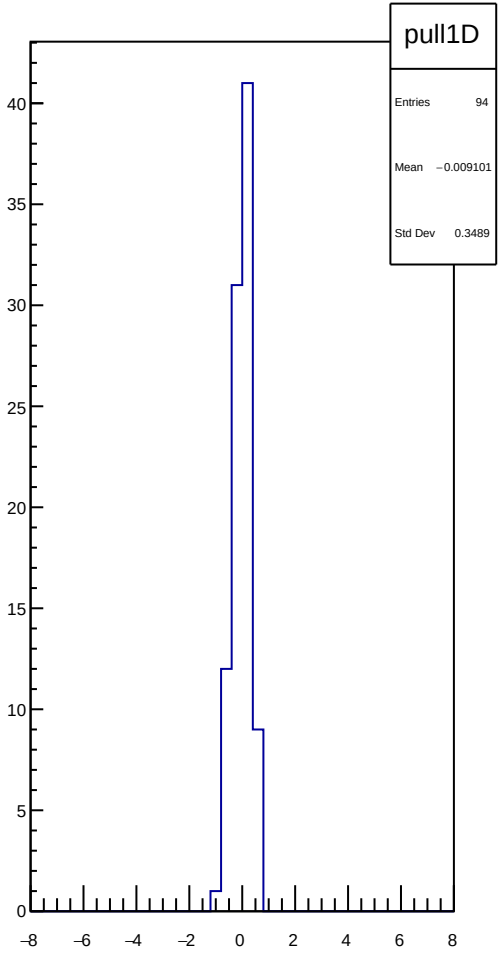

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.07 / 93
p0 −251.1 ± 3.676
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 94
Mean 348.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 94
Mean −0.001598
Std Dev 0.3869
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

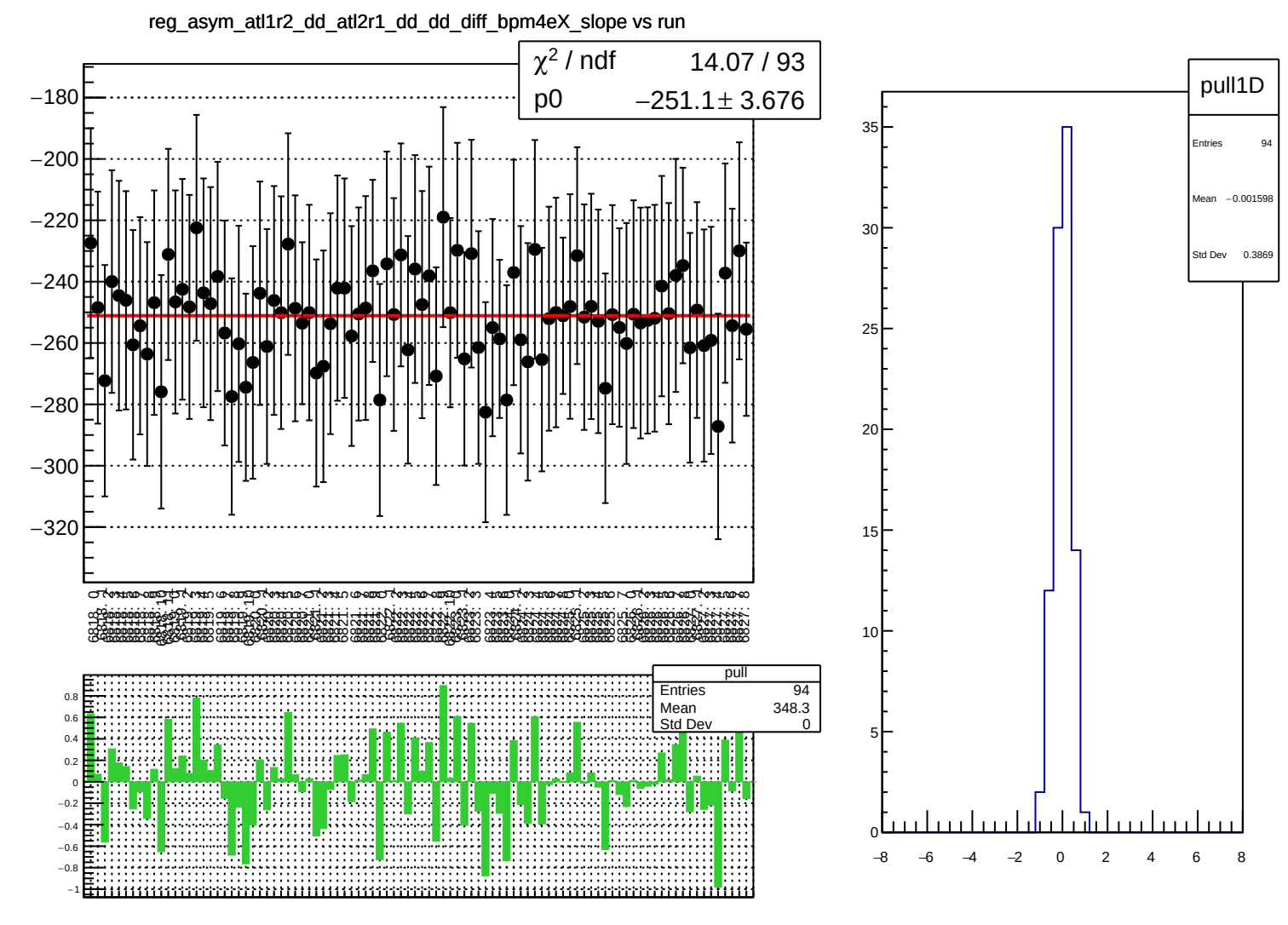

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 93
p0 −62.98 ± 3.048
pull
Entries 94
Mean −196.7
Std Dev 0
pull1D
Entries 94
Mean 0.004292
Std Dev 0.3664

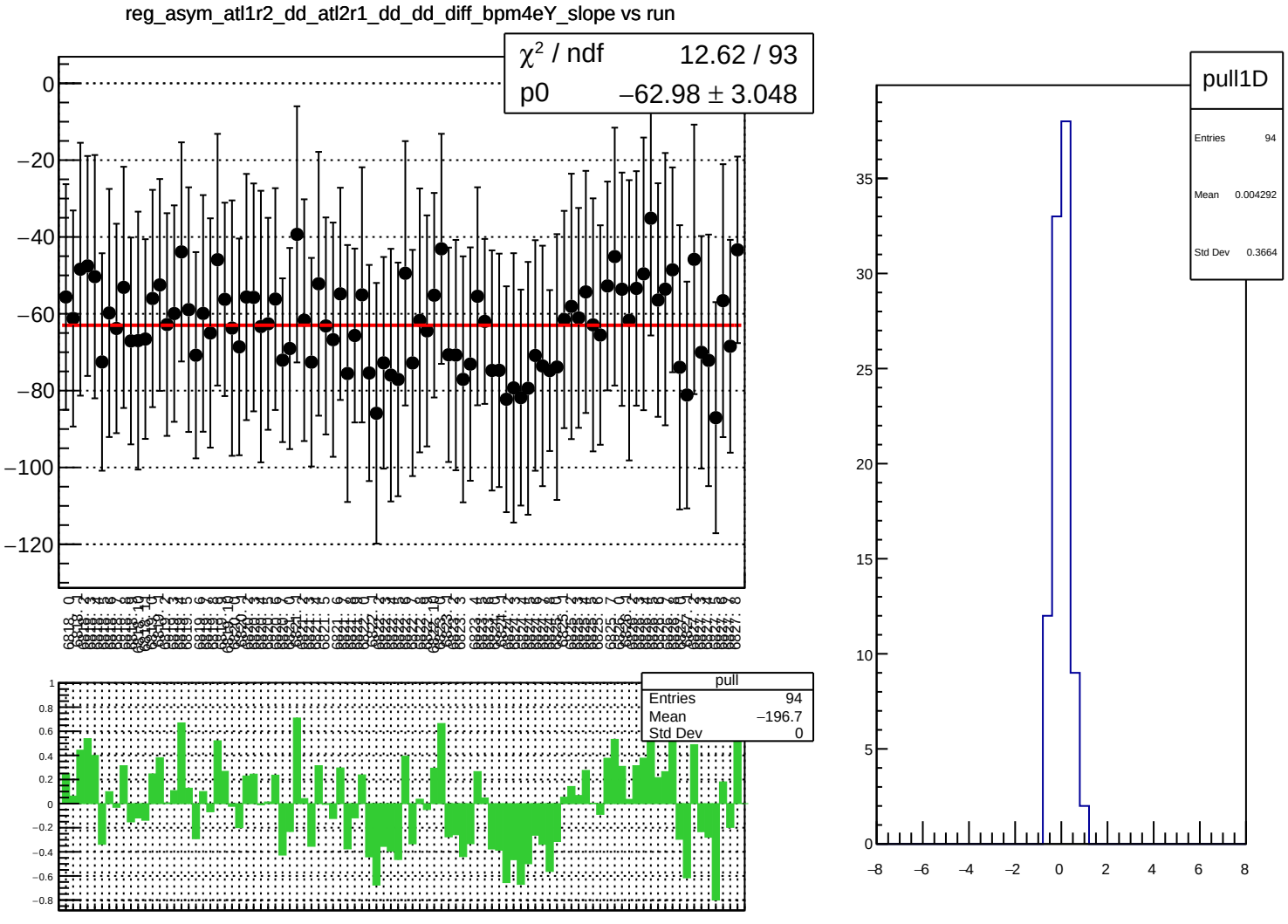

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 93
p0 123.3 ± 0.1491
126
125
124
123
122
121
120
pull
Entries 94
Mean −279
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 94
Mean 0.006286
Std Dev 0.3926
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

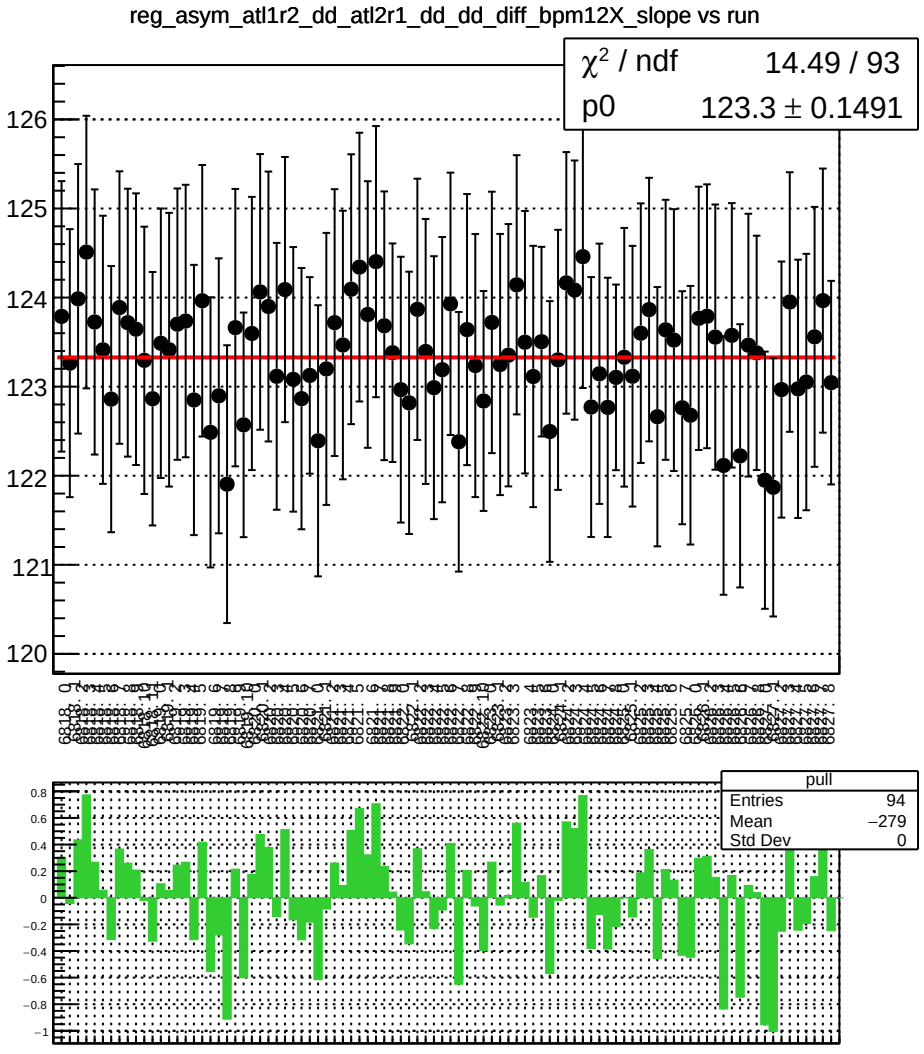

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 14.64 / 93
p0 253 ± 3.935
340
320
300
280
260
240
220
200
180
pull
Entries 94
Mean 459.6
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.001584
Std Dev 0.3946
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

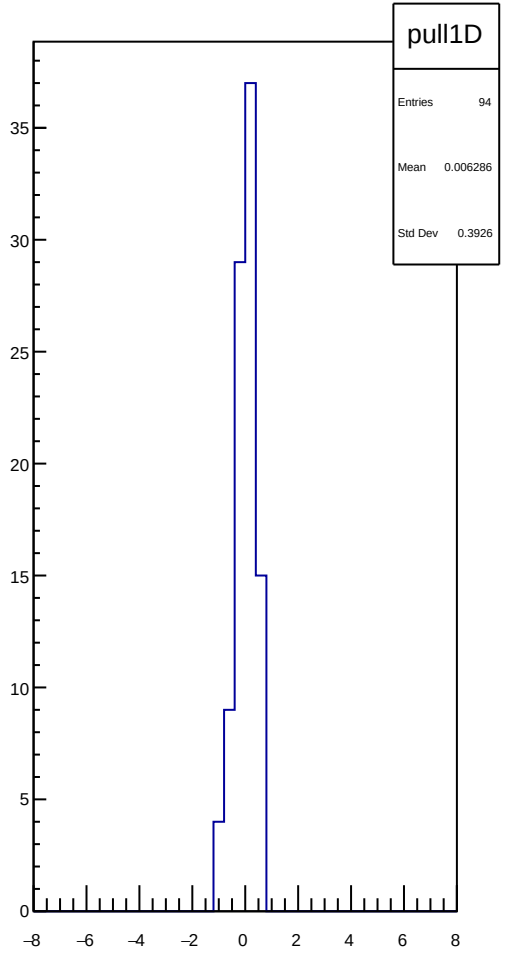

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.45 / 93
p0 −5.8 ± 2.635
pull
Entries 94
Mean 70.94
Std Dev 76.89

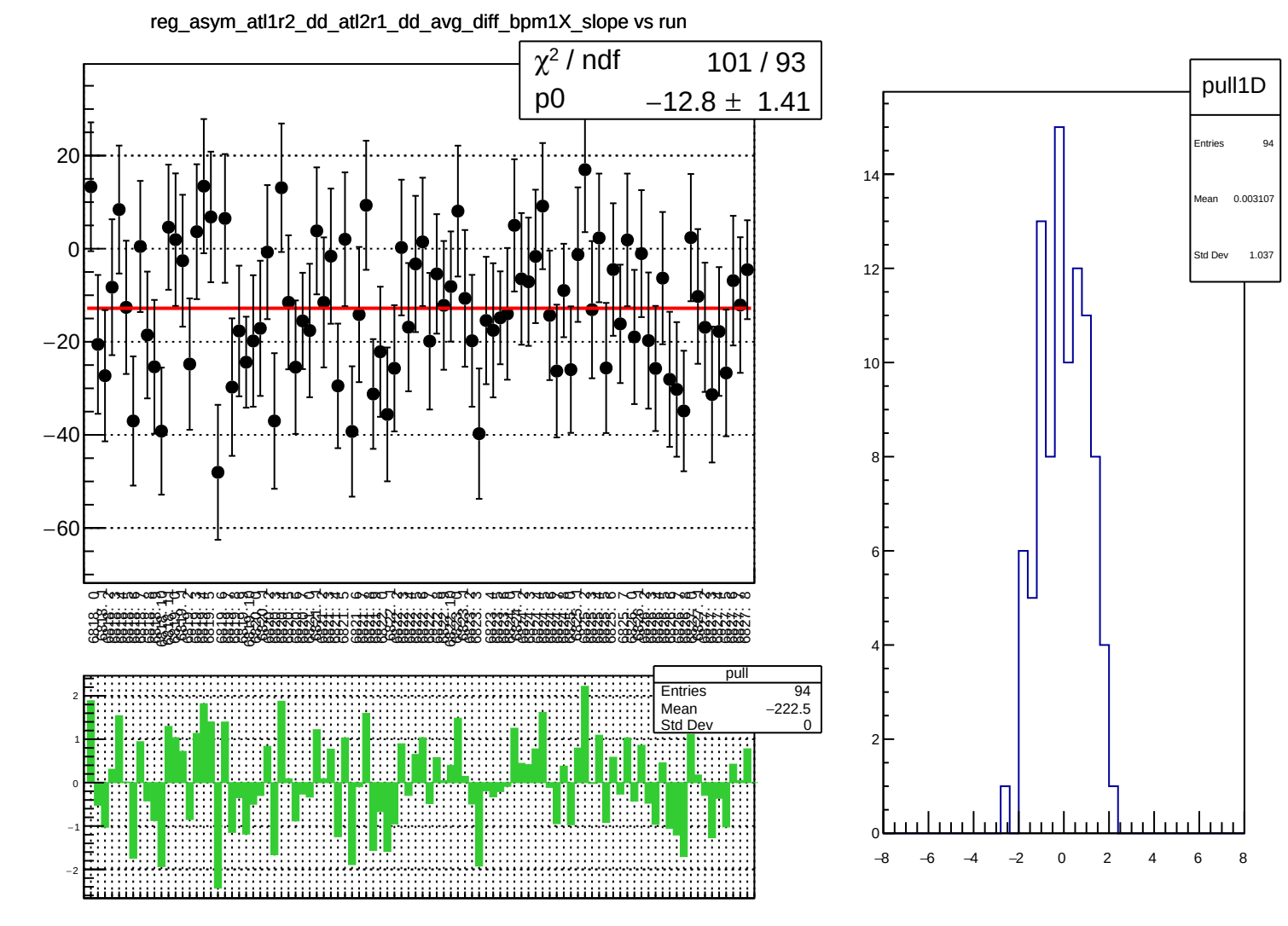

pull1D
Entries 94
Mean −0.009101
Std Dev 0.3489

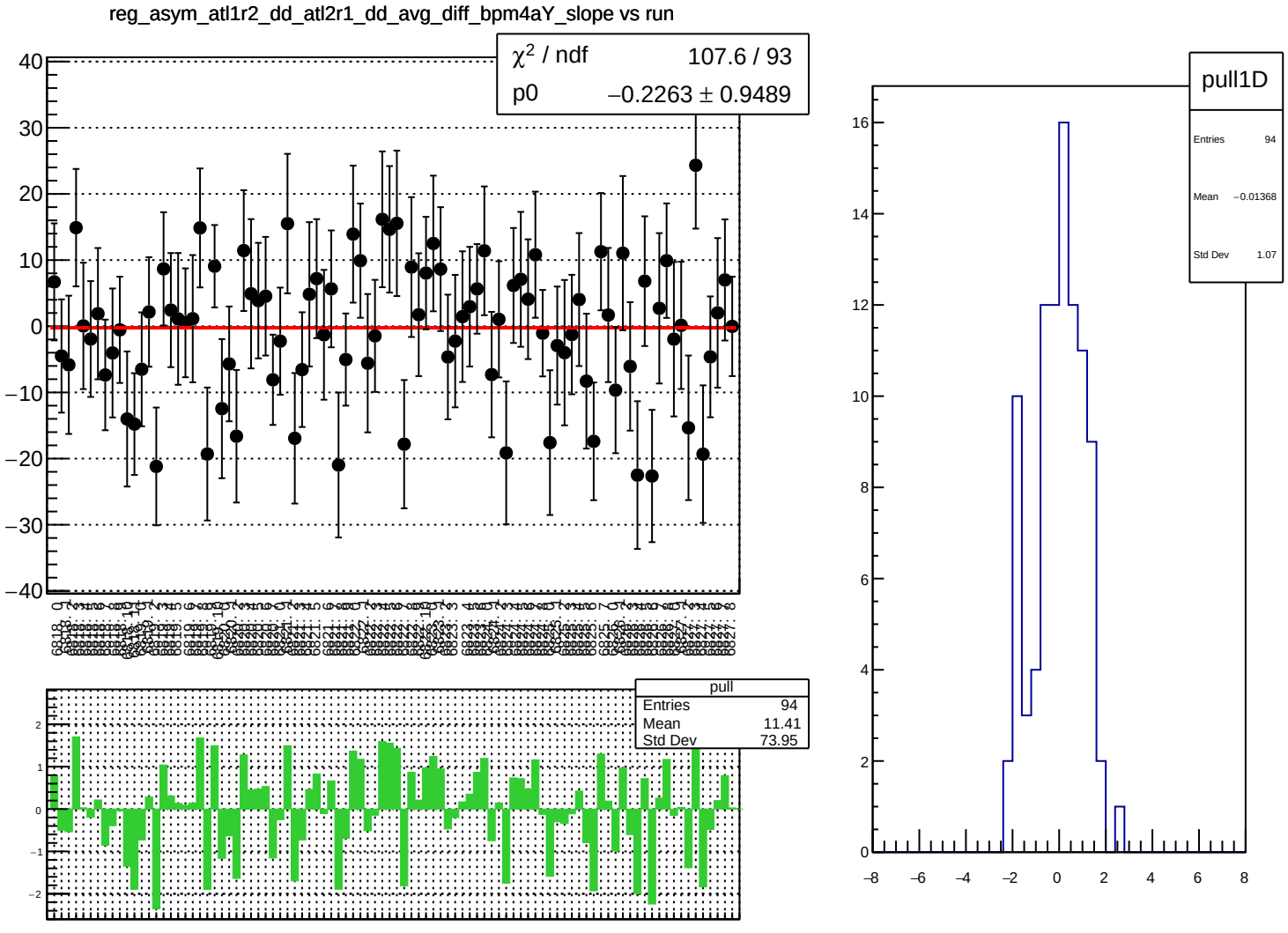

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.07 / 93
p0 −251.1 ± 3.676
−180
−200
−220
−240
−260
−280
−300
−320
pull
Entries 94
Mean 348.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 94
Mean −0.001598
Std Dev 0.3869
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

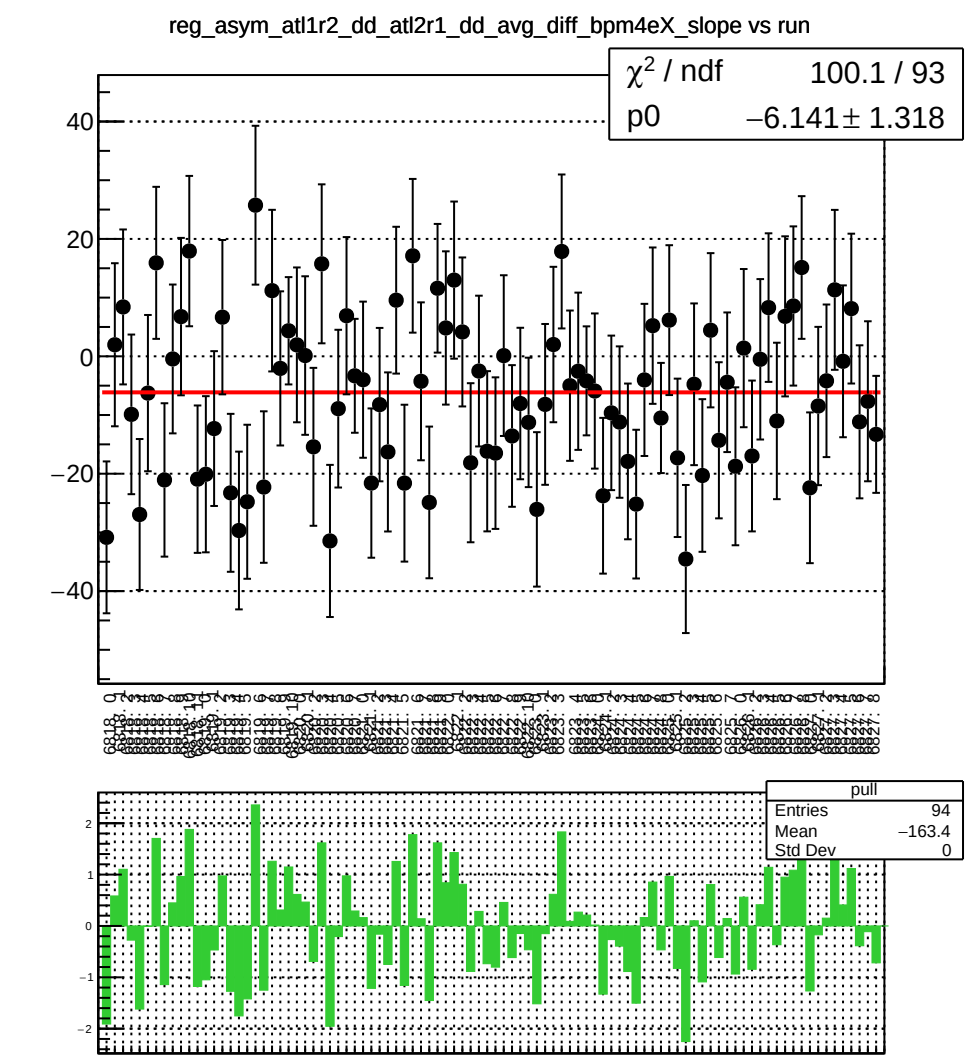

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.62 / 93
p0 −62.98 ± 3.048
pull
Entries 94
Mean −196.7
Std Dev 0
pull1D
Entries 94
Mean 0.004292
Std Dev 0.3664

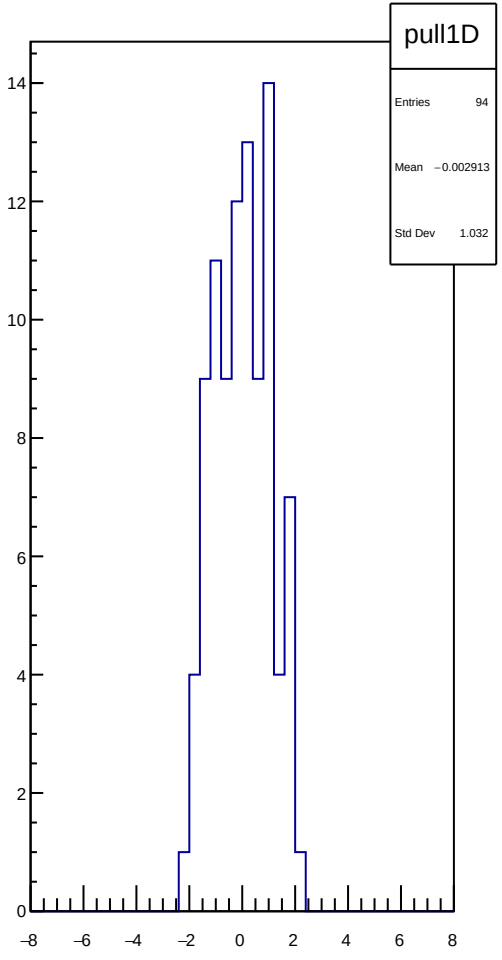

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 14.49 / 93
p0 123.3 ± 0.1491
126
125
124
123
122
121
120
pull
Entries 94
Mean −279
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

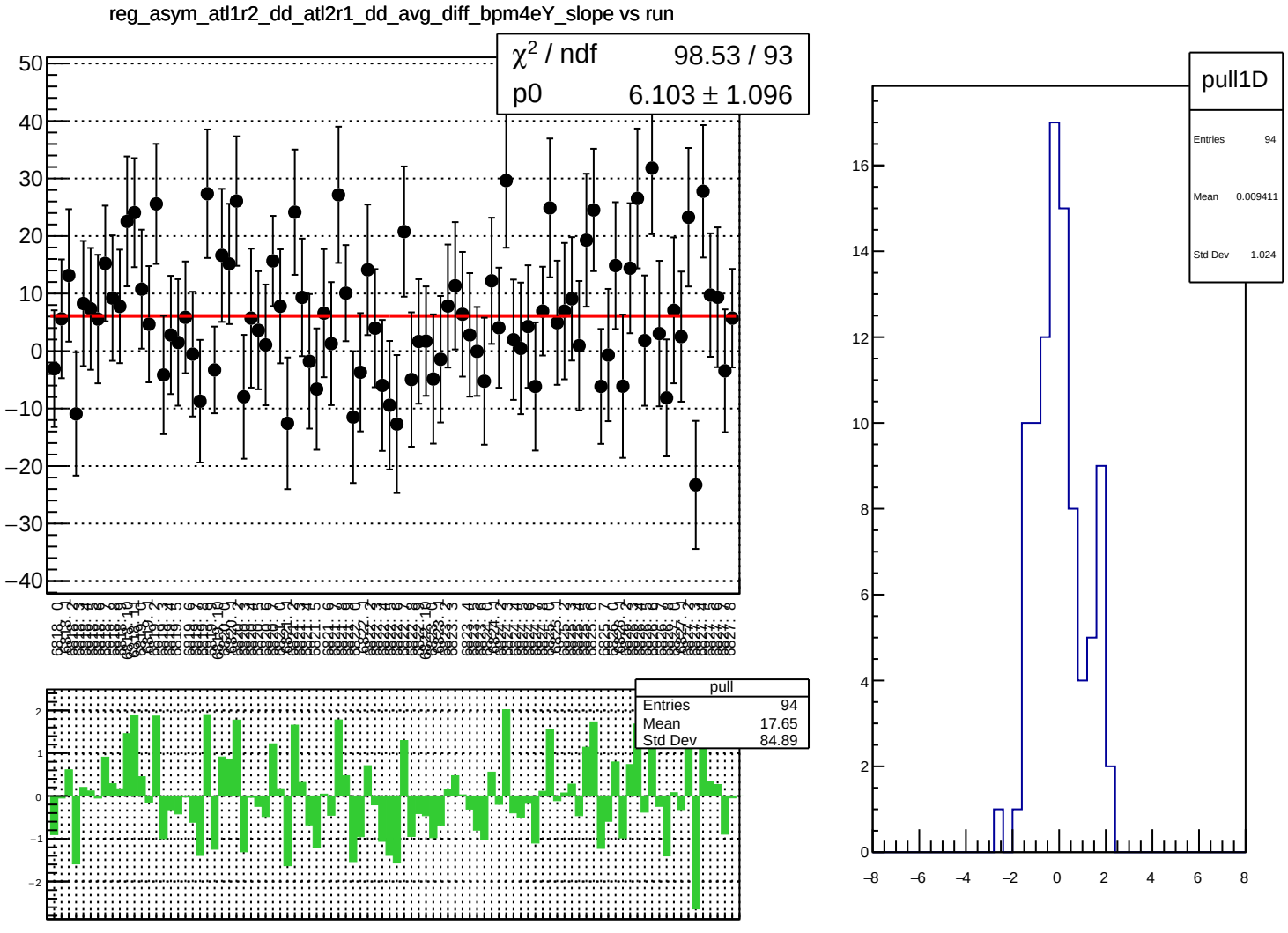

pull1D
Entries 94
Mean 0.006286
Std Dev 0.3926
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

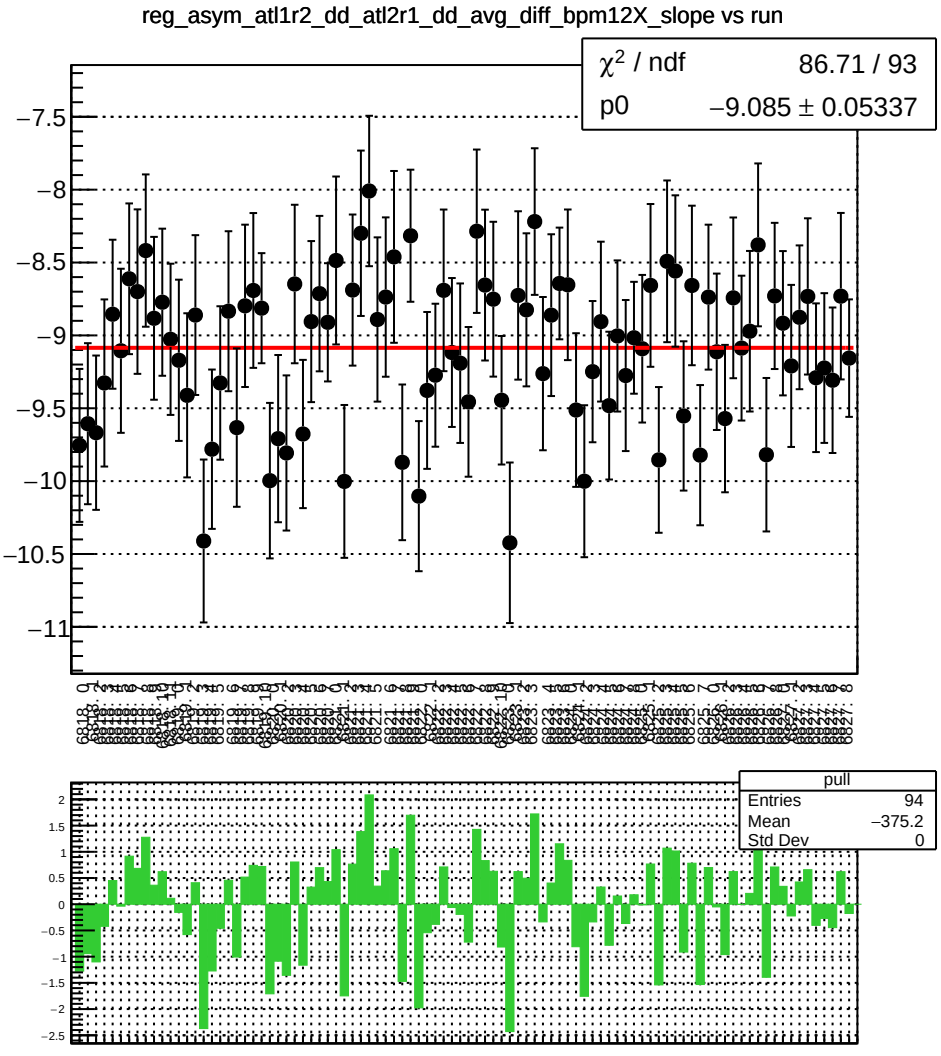

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 101 / 93
p0 −12.8 ± 1.41
20
0
−20
−40
−60
pull
Entries 94
Mean −222.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 94
Mean 0.003107
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

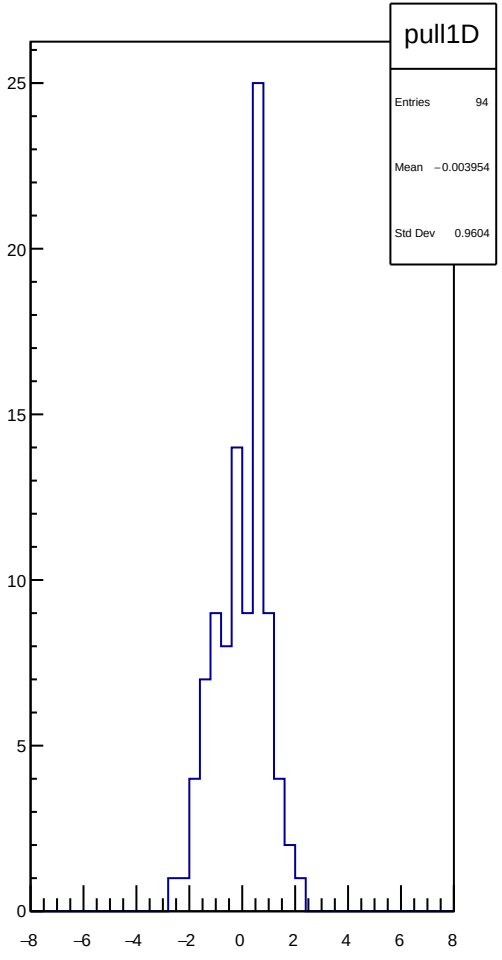

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 107.6 / 93
p0 −0.2263 ± 0.9489
pull
Entries 94
Mean 11.41
Std Dev 73.95
pull1D
Entries 94
Mean −0.01368
Std Dev 1.07

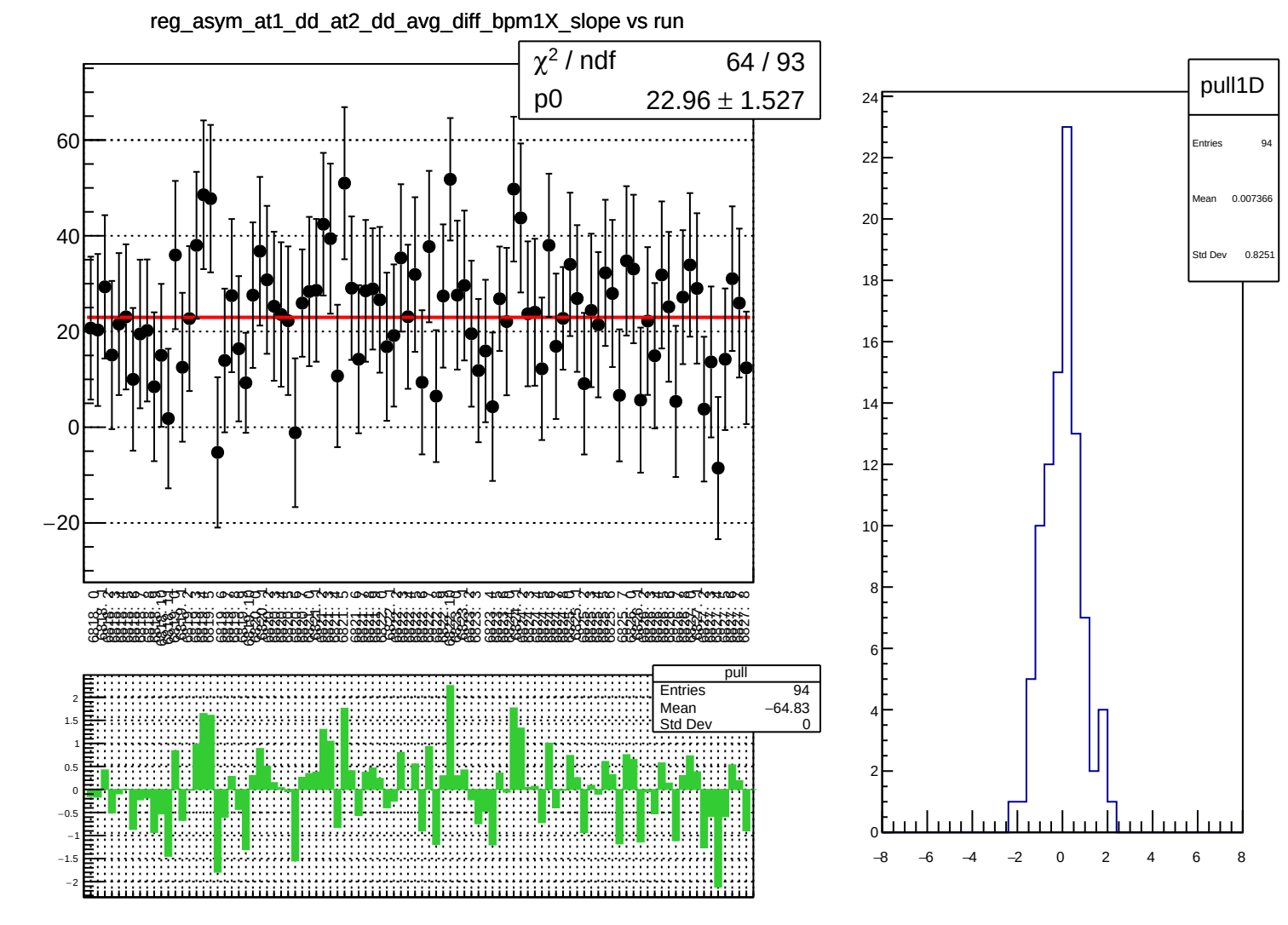

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 100.1 / 93
p0 −6.141 ± 1.318
pull
Entries 94
Mean −163.4
Std Dev 0

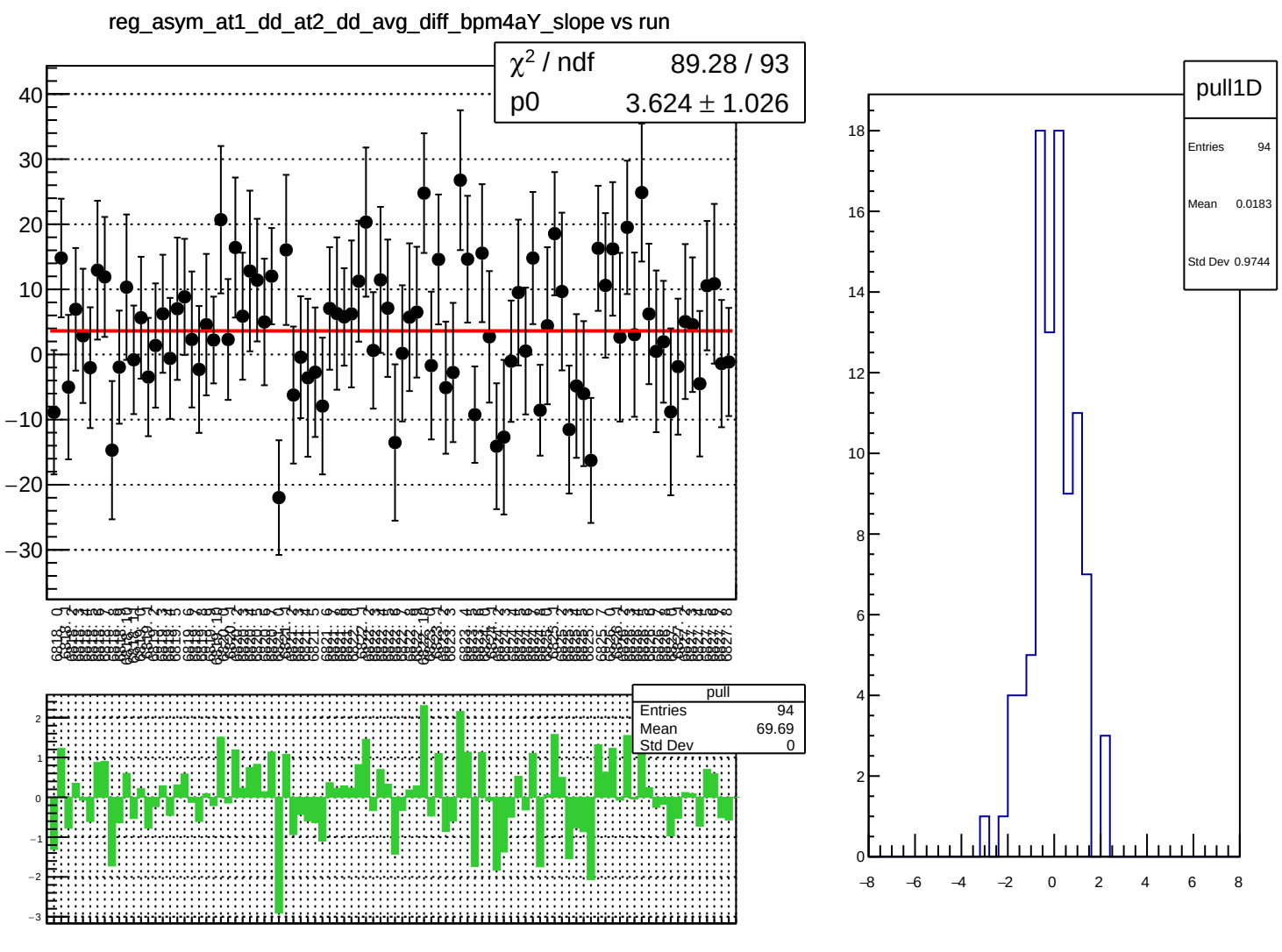

pull1D
Entries 94
Mean −0.002913
Std Dev 1.032

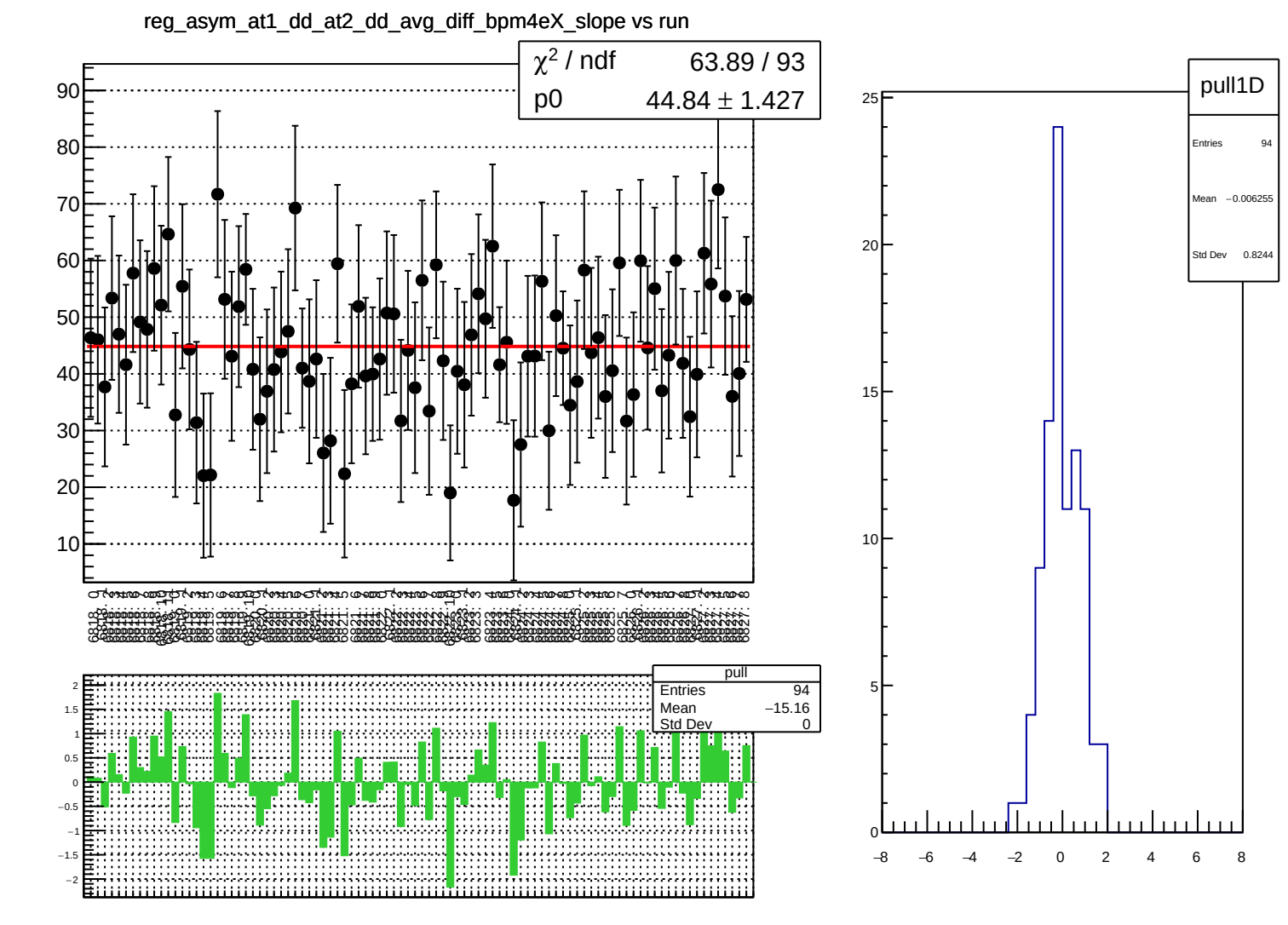

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.53 / 93
p0 6.103 ± 1.096
pull
Entries 94
Mean 17.65
Std Dev 84.89
pull1D
Entries 94
Mean 0.009411
Std Dev 1.024

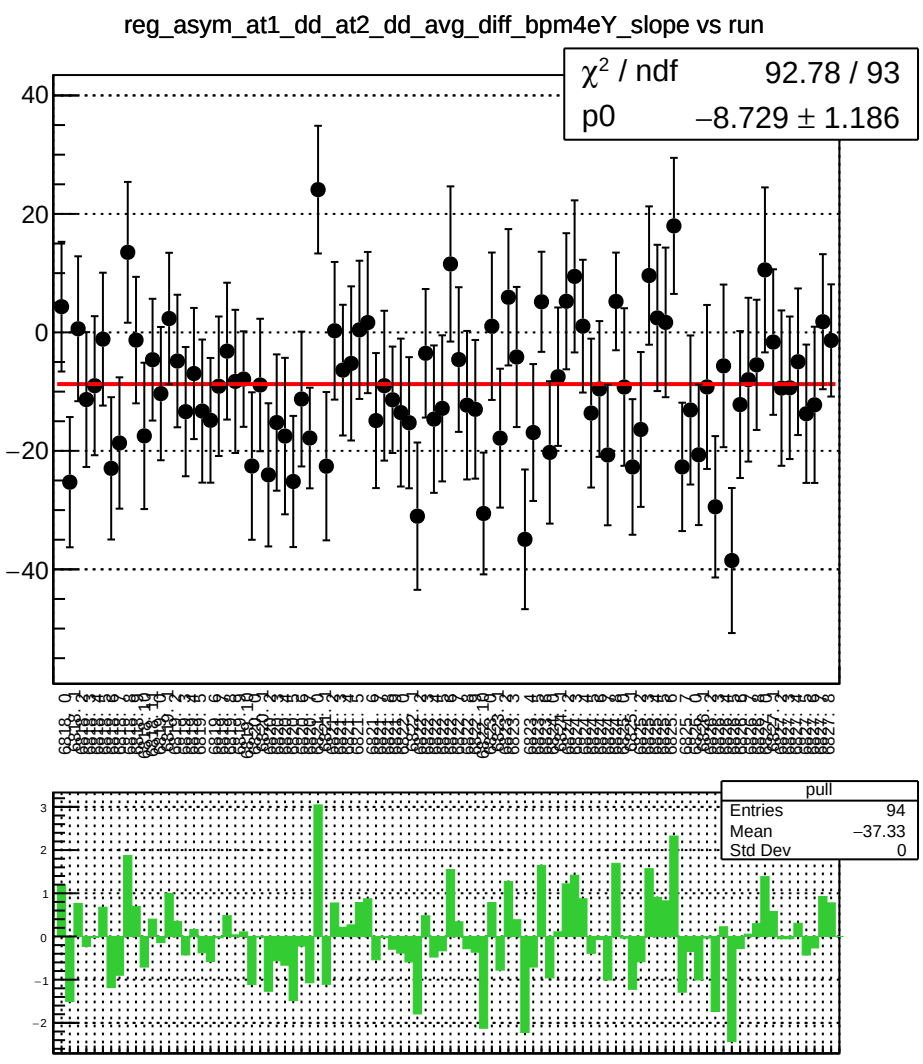

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 86.71 / 93
p0 −9.085 ± 0.05337
pull
Entries 94
Mean −375.2
Std Dev 0

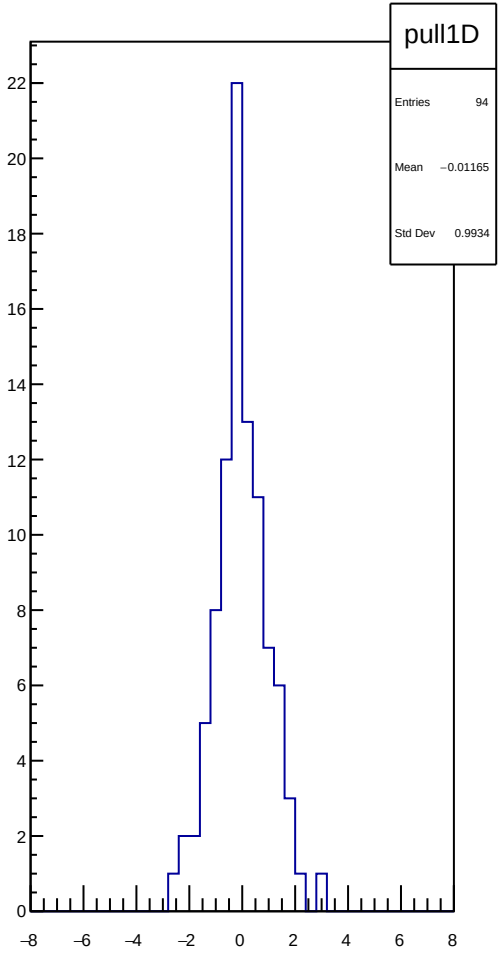

pull1D
Entries 94
Mean −0.003954
Std Dev 0.9604

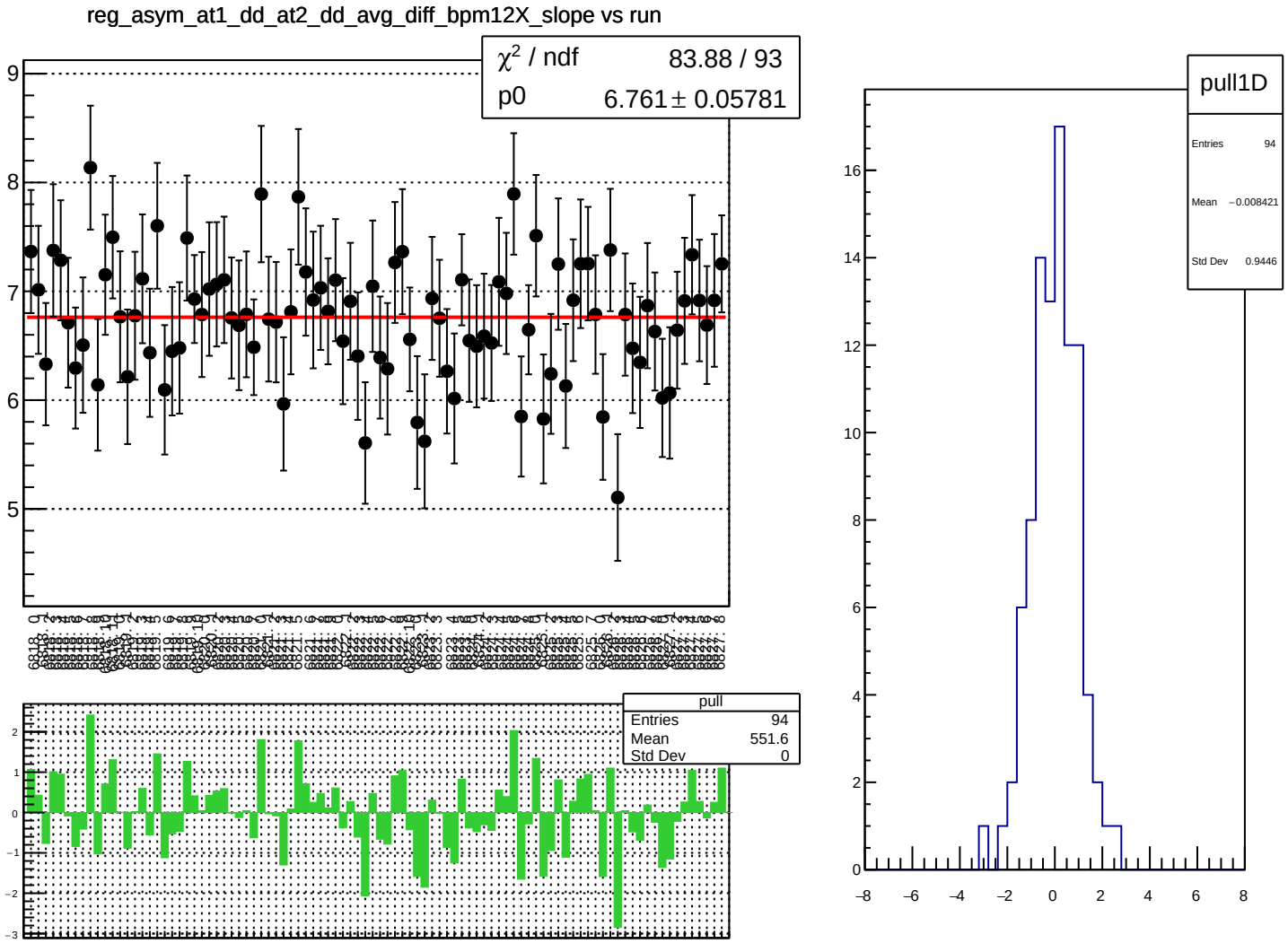

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 64 / 93
p0 22.96 ± 1.527
pull
Entries 94
Mean −64.83
Std Dev 0
pull1D
Entries 94
Mean 0.007366
Std Dev 0.8251

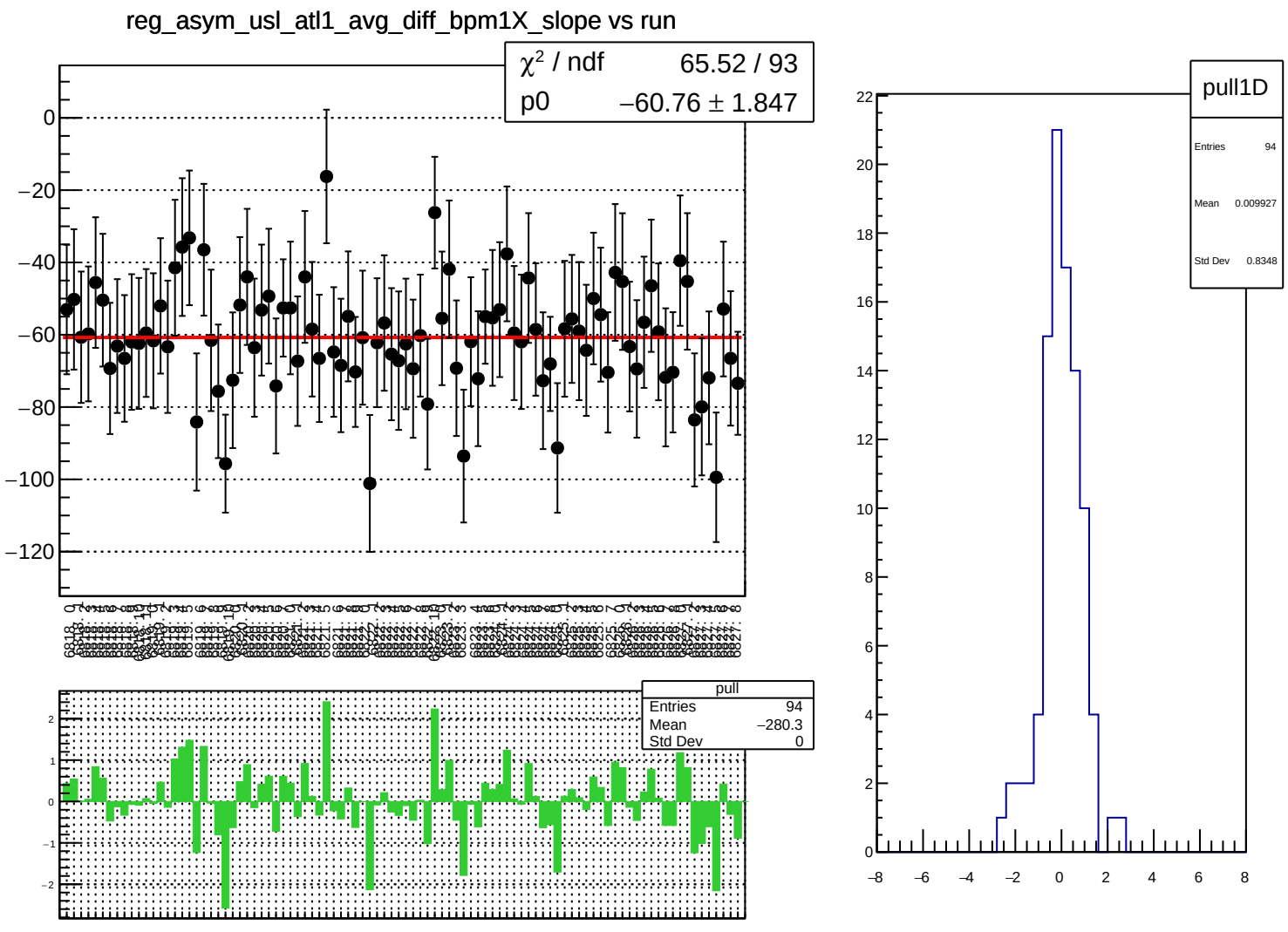

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 89.28 / 93
p0 3.624 ± 1.026
pull
Entries 94
Mean 69.69
Std Dev 0
pull1D
Entries 94
Mean 0.0183
Std Dev 0.9744

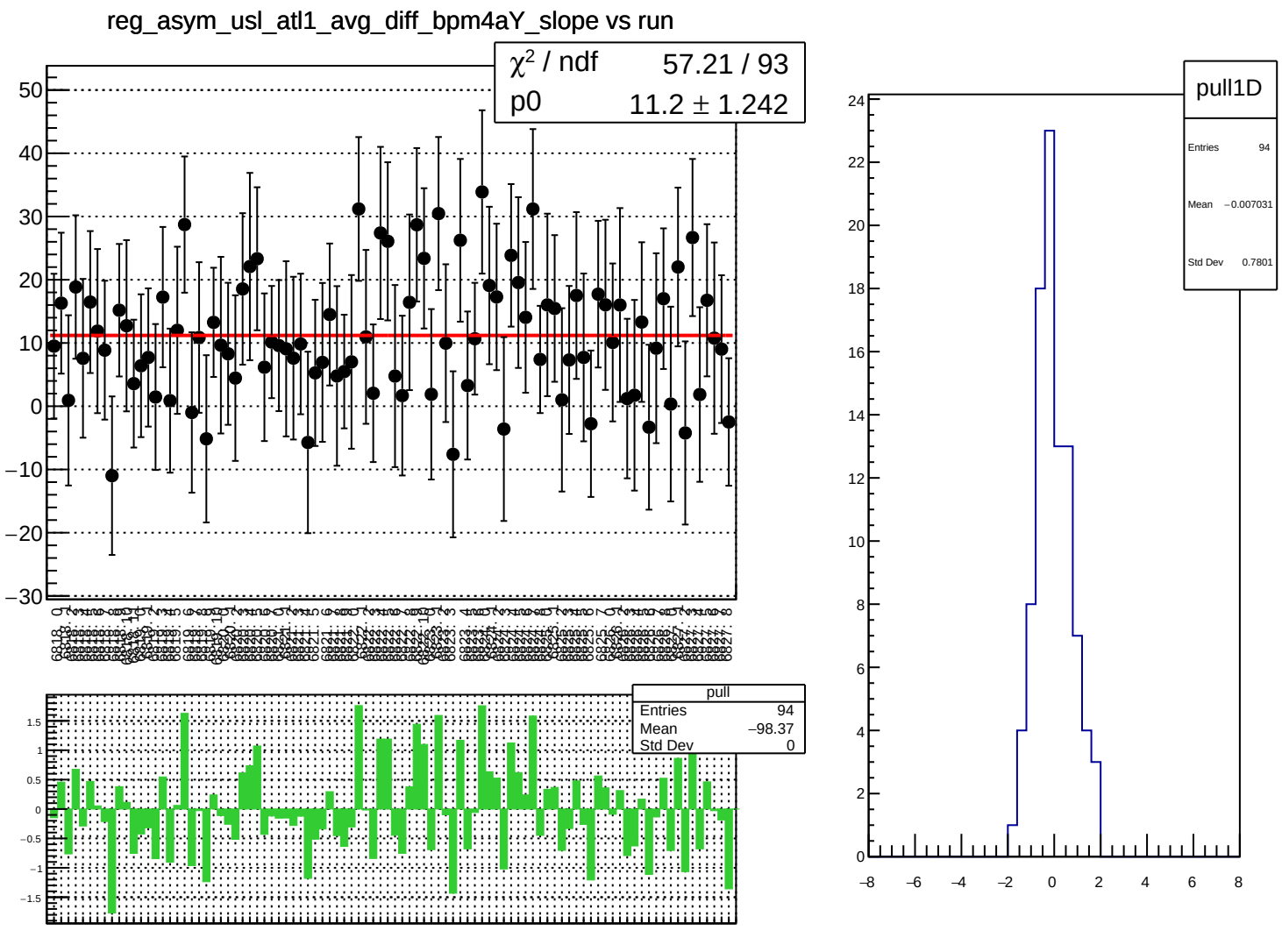

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.89 / 93
p0 44.84 ± 1.427
pull
Entries 94
Mean −15.16
Std Dev 0
pull1D
Entries 94
Mean −0.006255
Std Dev 0.8244

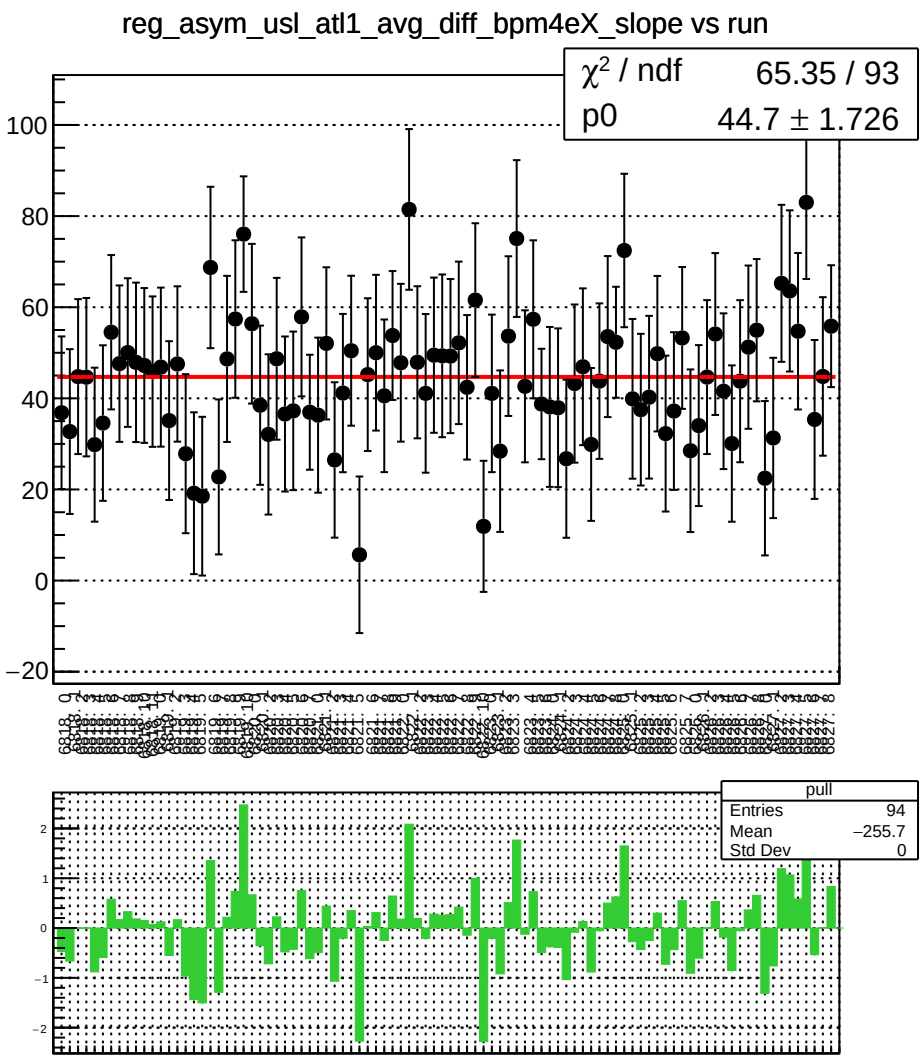

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 92.78 / 93
p0 −8.729 ± 1.186
pull
Entries 94
Mean −37.33
Std Dev 0

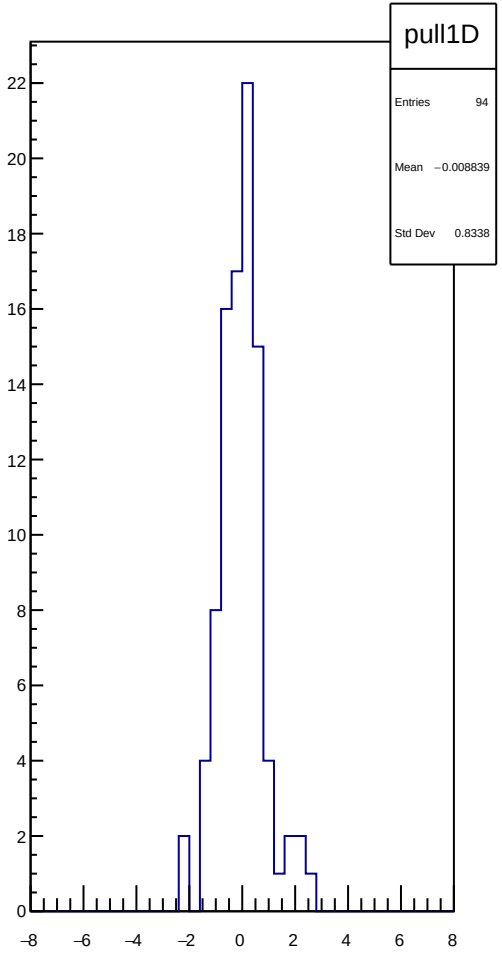

pull1D
Entries 94
Mean −0.01165
Std Dev 0.9934

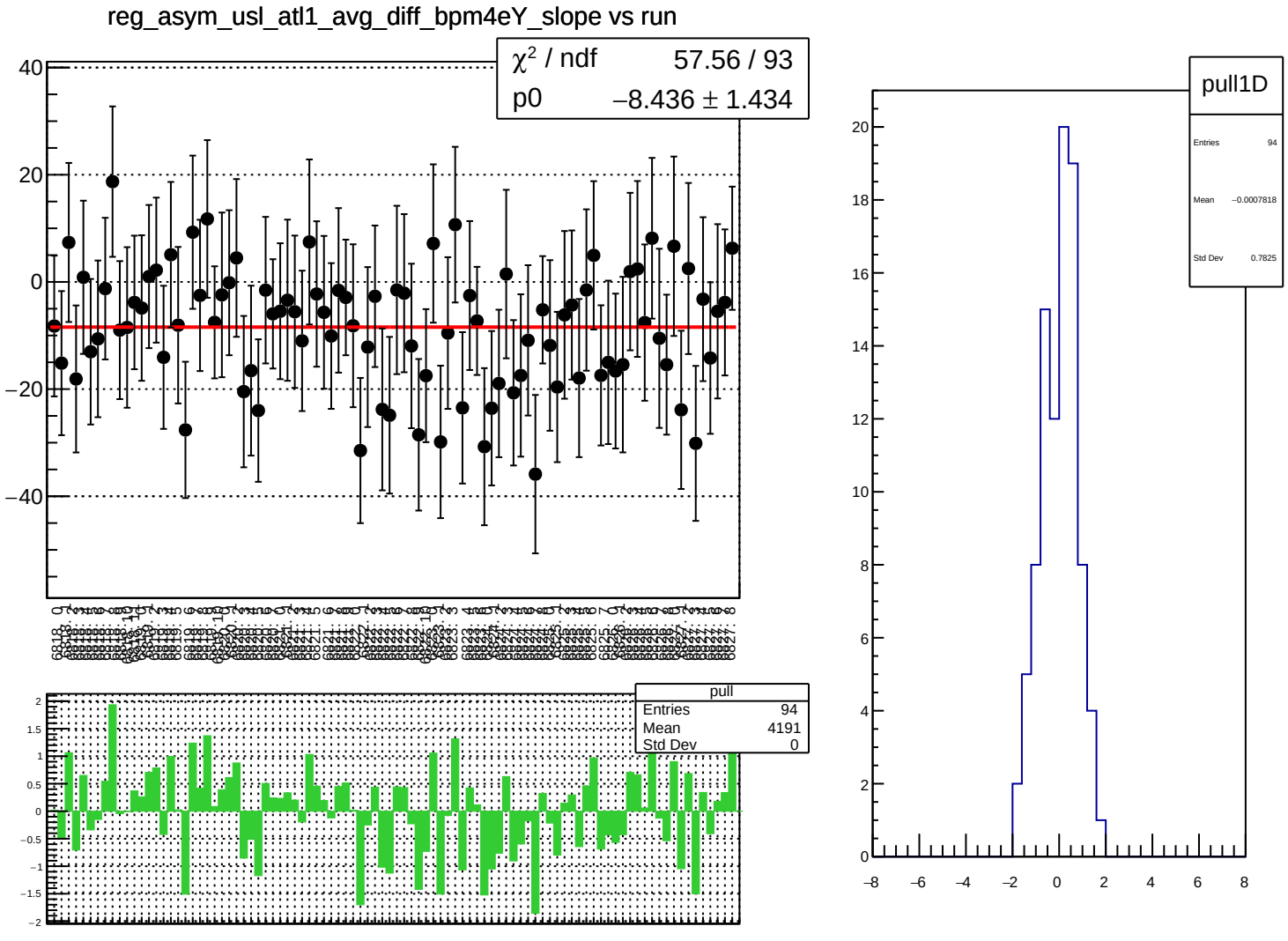

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.88 / 93
p0 6.761 ± 0.05781
pull
Entries 94
Mean 551.6
Std Dev 0
pull1D
Entries 94
Mean −0.008421
Std Dev 0.9446

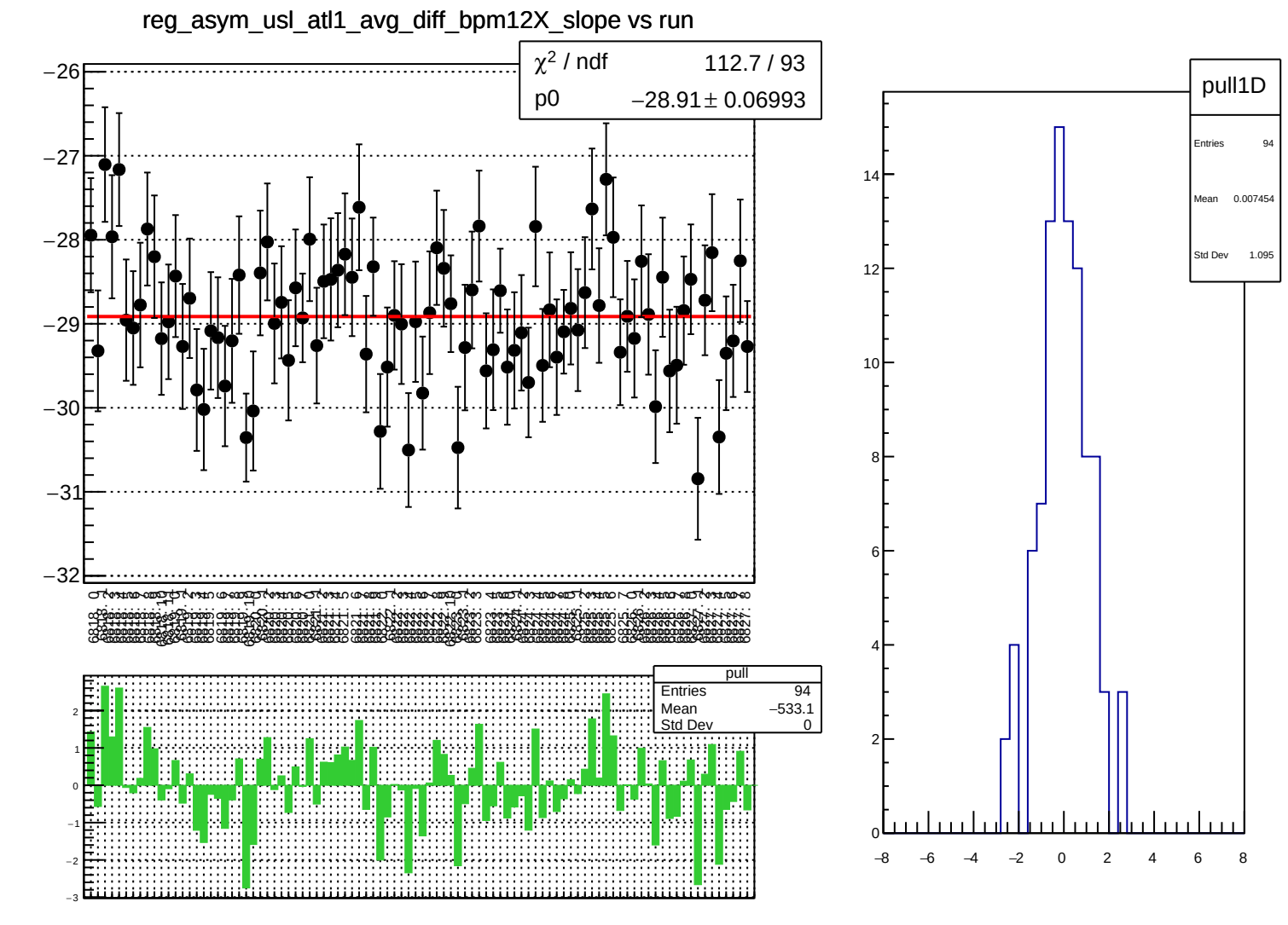

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 65.52 / 93
p0 −60.76 ± 1.847
pull
Entries 94
Mean −280.3
Std Dev 0
pull1D
Entries 94
Mean 0.009927
Std Dev 0.8348

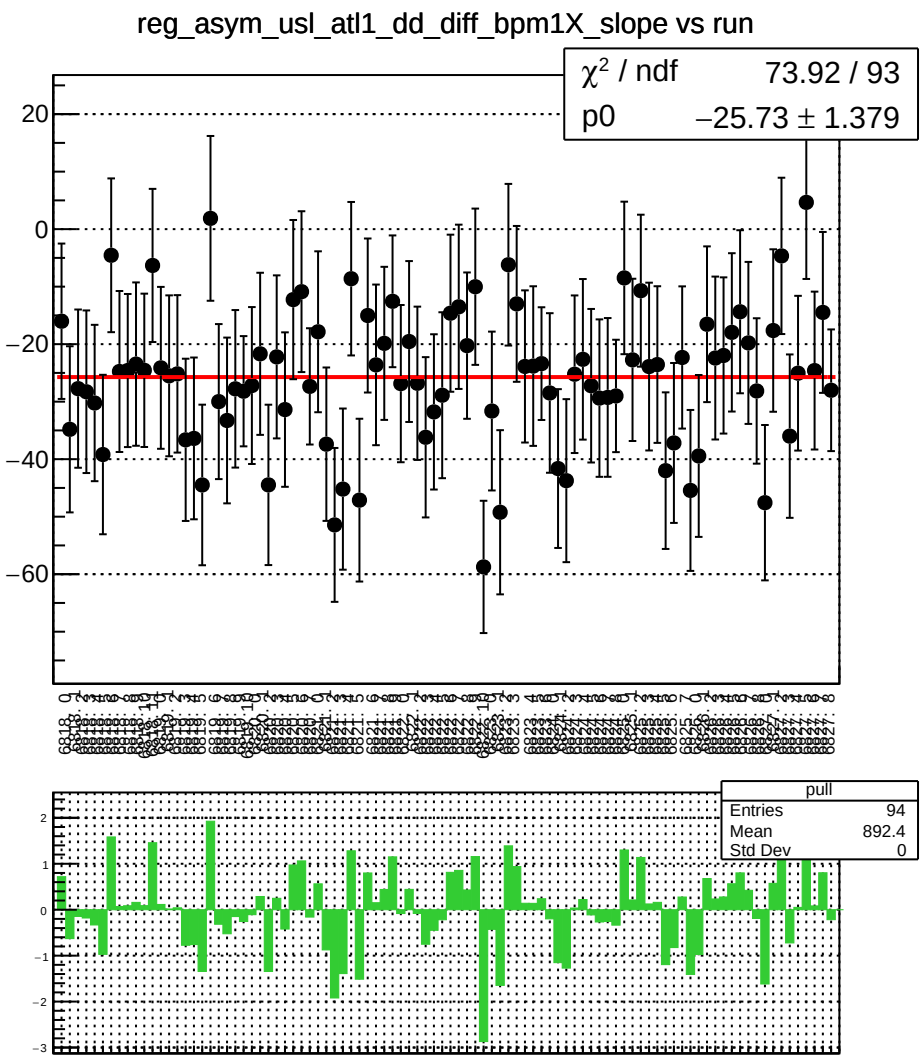

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.21 / 93
p0 11.2 ± 1.242
pull
Entries 94
Mean −98.37
Std Dev 0
pull1D
Entries 94
Mean −0.007031
Std Dev 0.7801

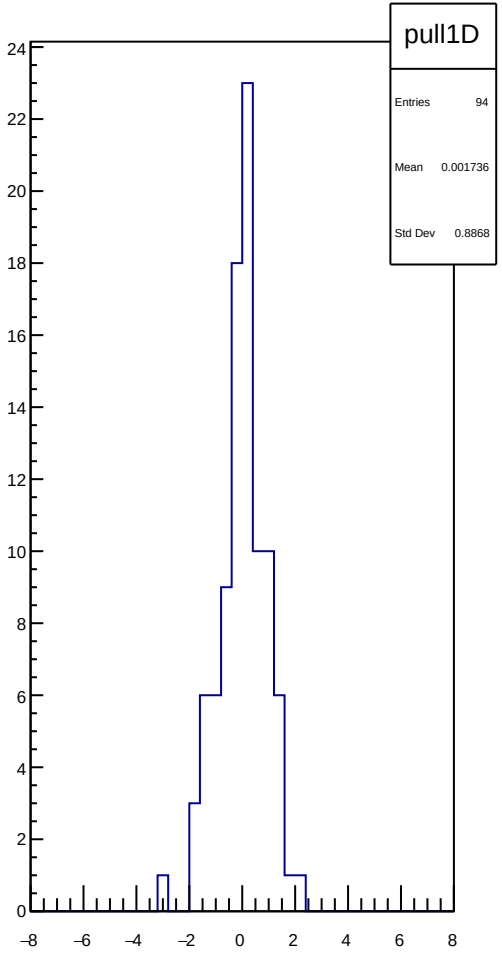

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.35 / 93
p0 44.7 ± 1.726
pull
Entries 94
Mean −255.7
Std Dev 0

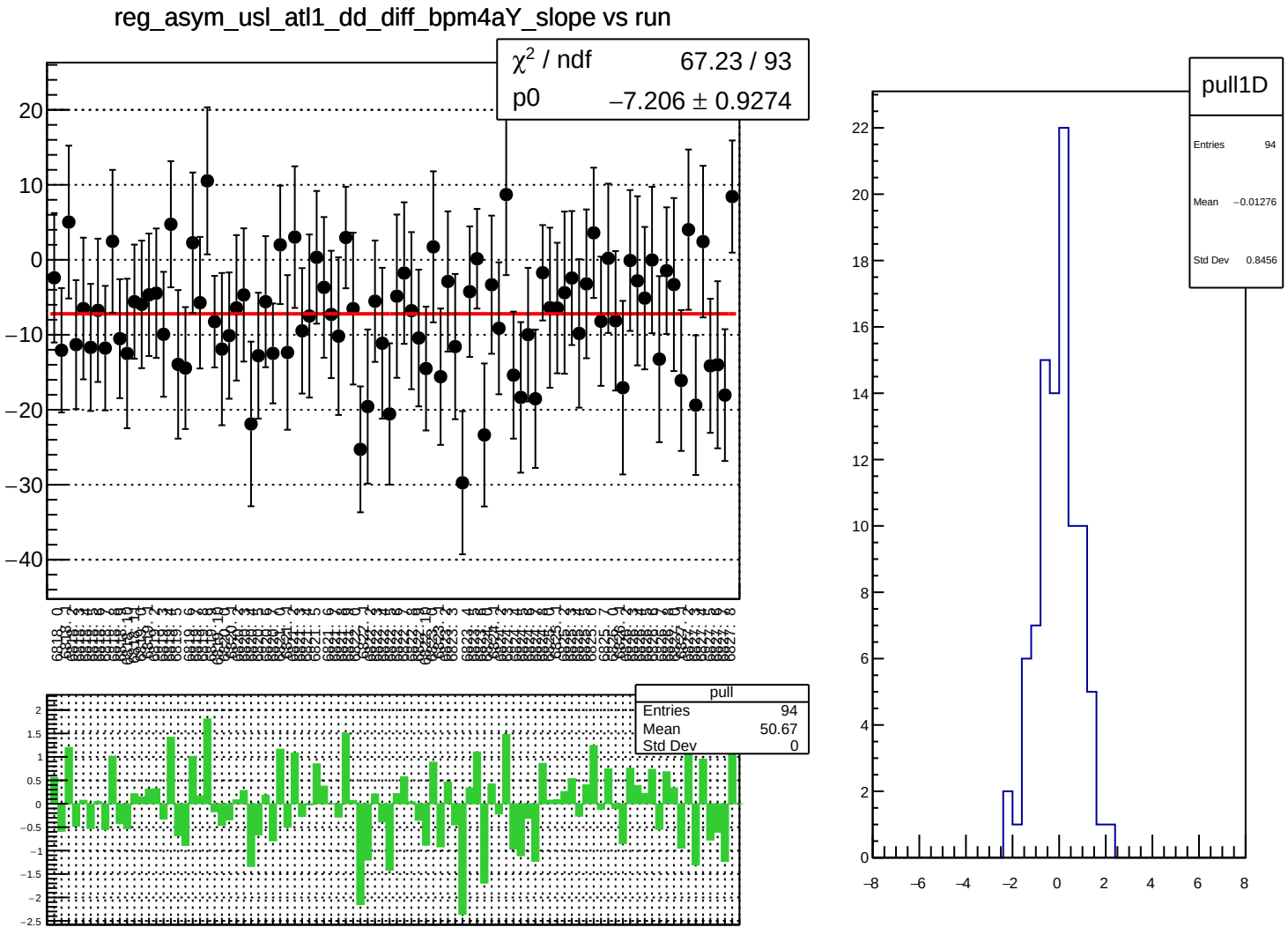

pull1D
Entries 94
Mean −0.008839
Std Dev 0.8338

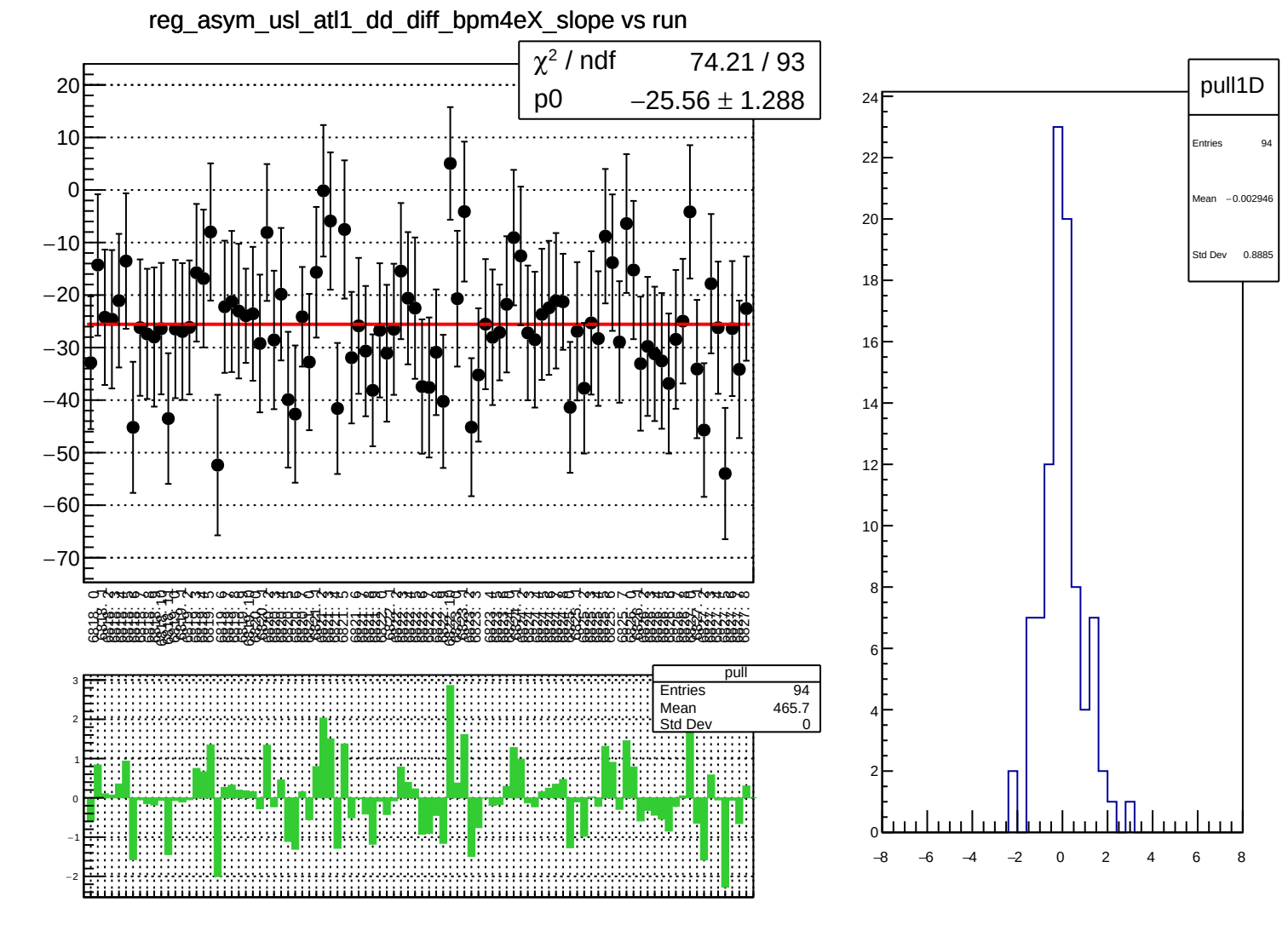

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.56 / 93
p0 −8.436 ± 1.434
pull
Entries 94
Mean 4191
Std Dev 0
pull1D
Entries 94
Mean −0.0007818
Std Dev 0.7825

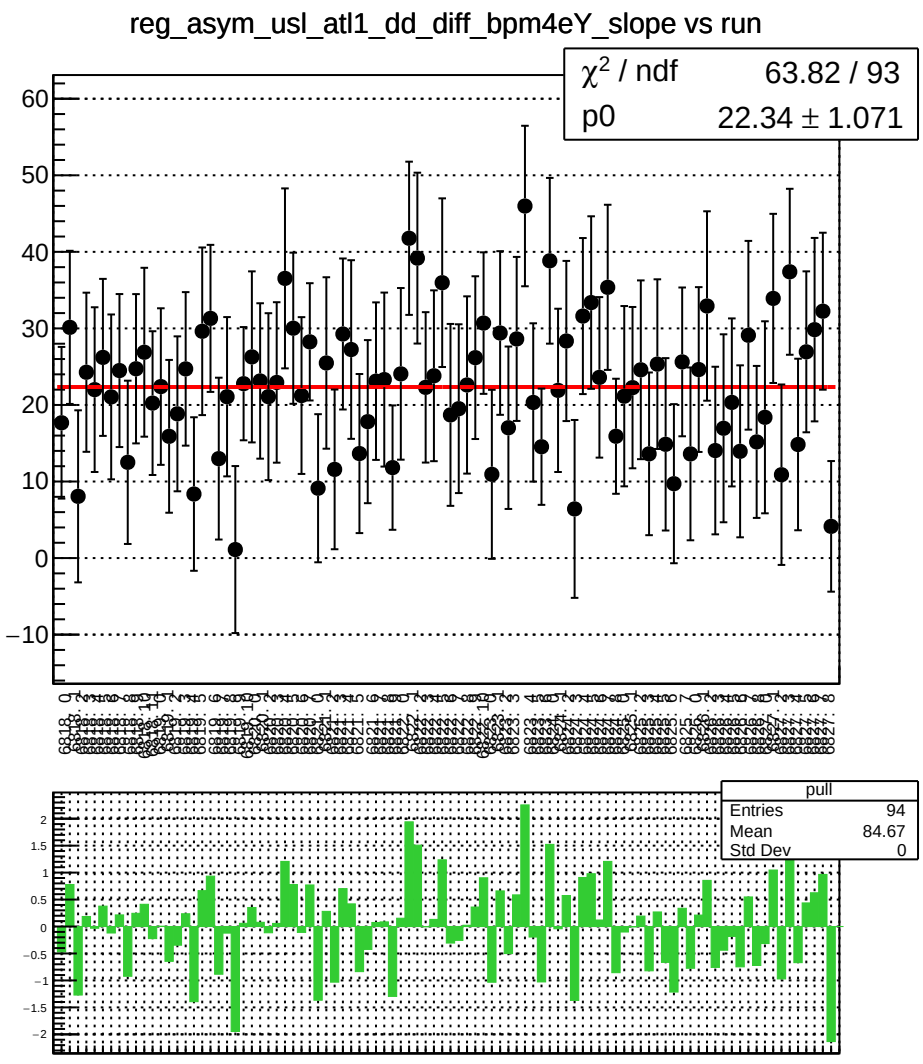

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 112.7 / 93
p0 −28.91 ± 0.06993
pull
Entries 94
Mean −533.1
Std Dev 0
pull1D
Entries 94
Mean 0.007454
Std Dev 1.095

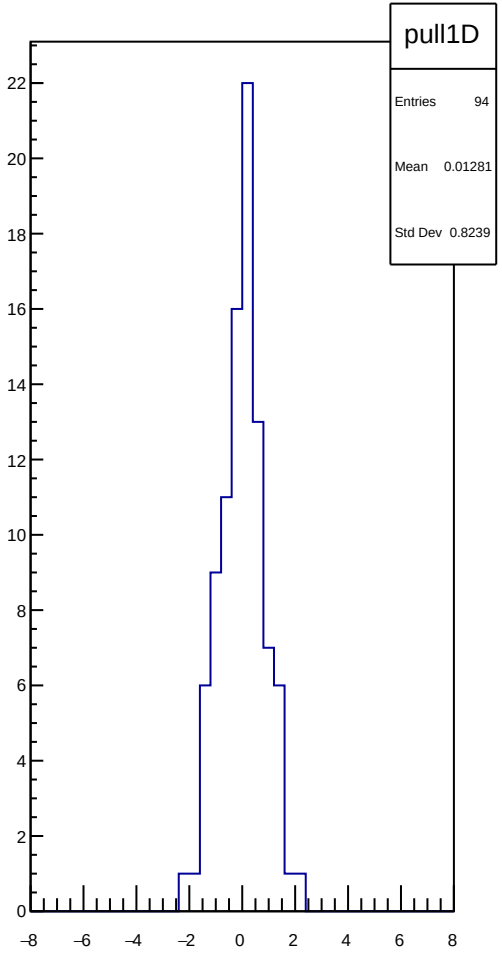

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 73.92 / 93
p0 −25.73 ± 1.379
pull
Entries 94
Mean 892.4
Std Dev 0

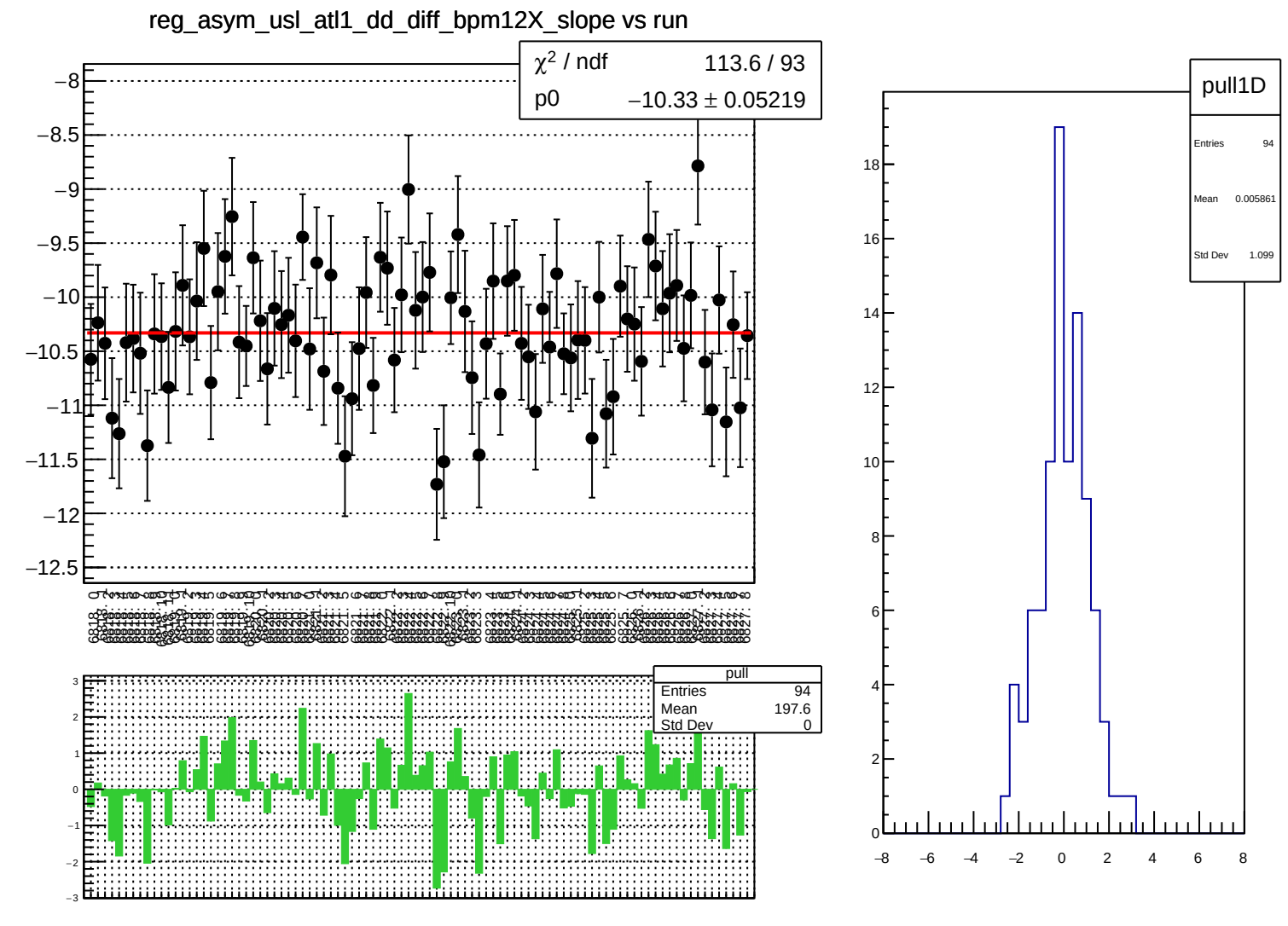

pull1D
Entries 94
Mean 0.001736
Std Dev 0.8868

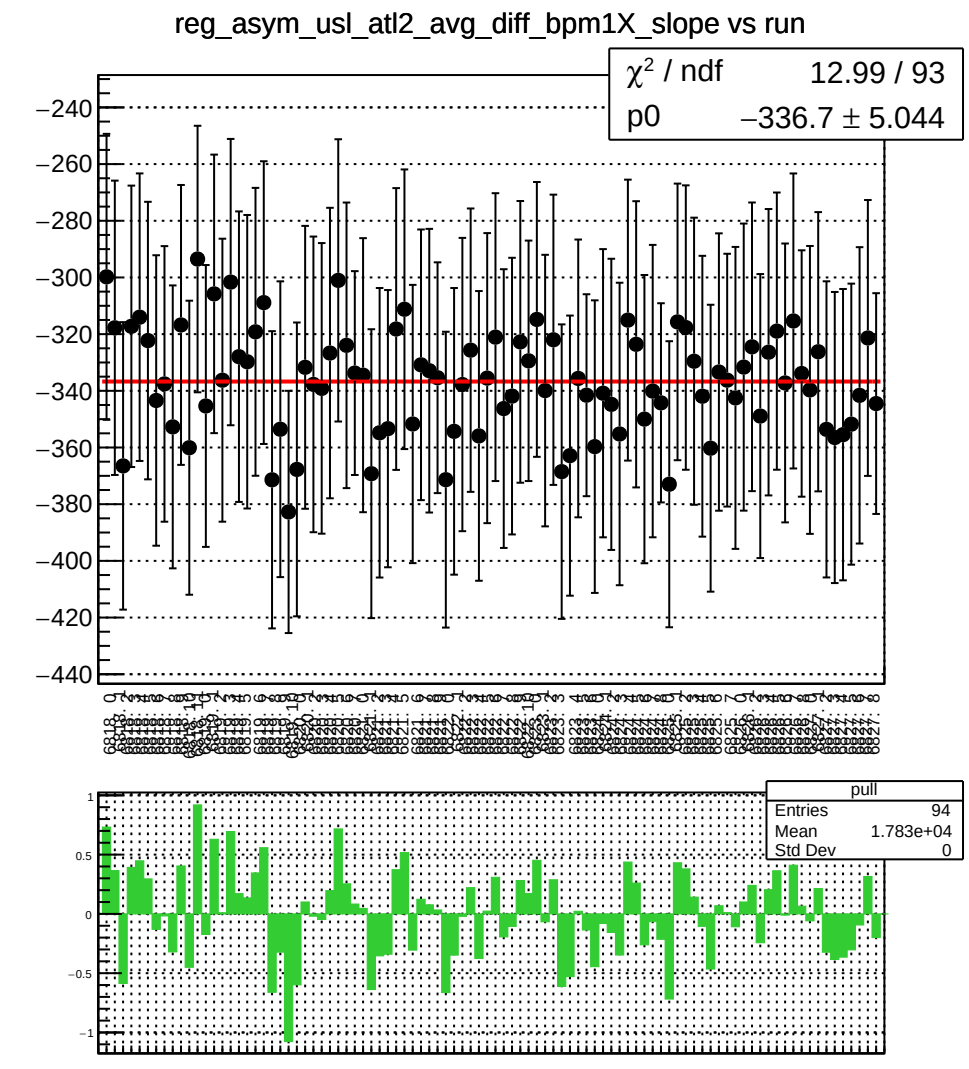

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.23 / 93
p0 −7.206 ± 0.9274
pull
Entries 94
Mean 50.67
Std Dev 0
pull1D
Entries 94
Mean −0.01276
Std Dev 0.8456

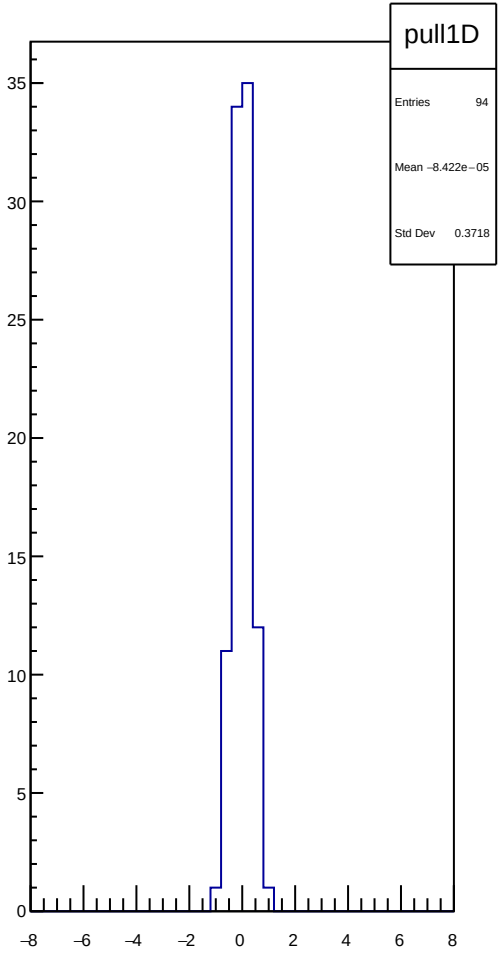

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.21 / 93
p0 −25.56 ± 1.288
pull
Entries 94
Mean 465.7
Std Dev 0
pull1D
Entries 94
Mean −0.002946
Std Dev 0.8885

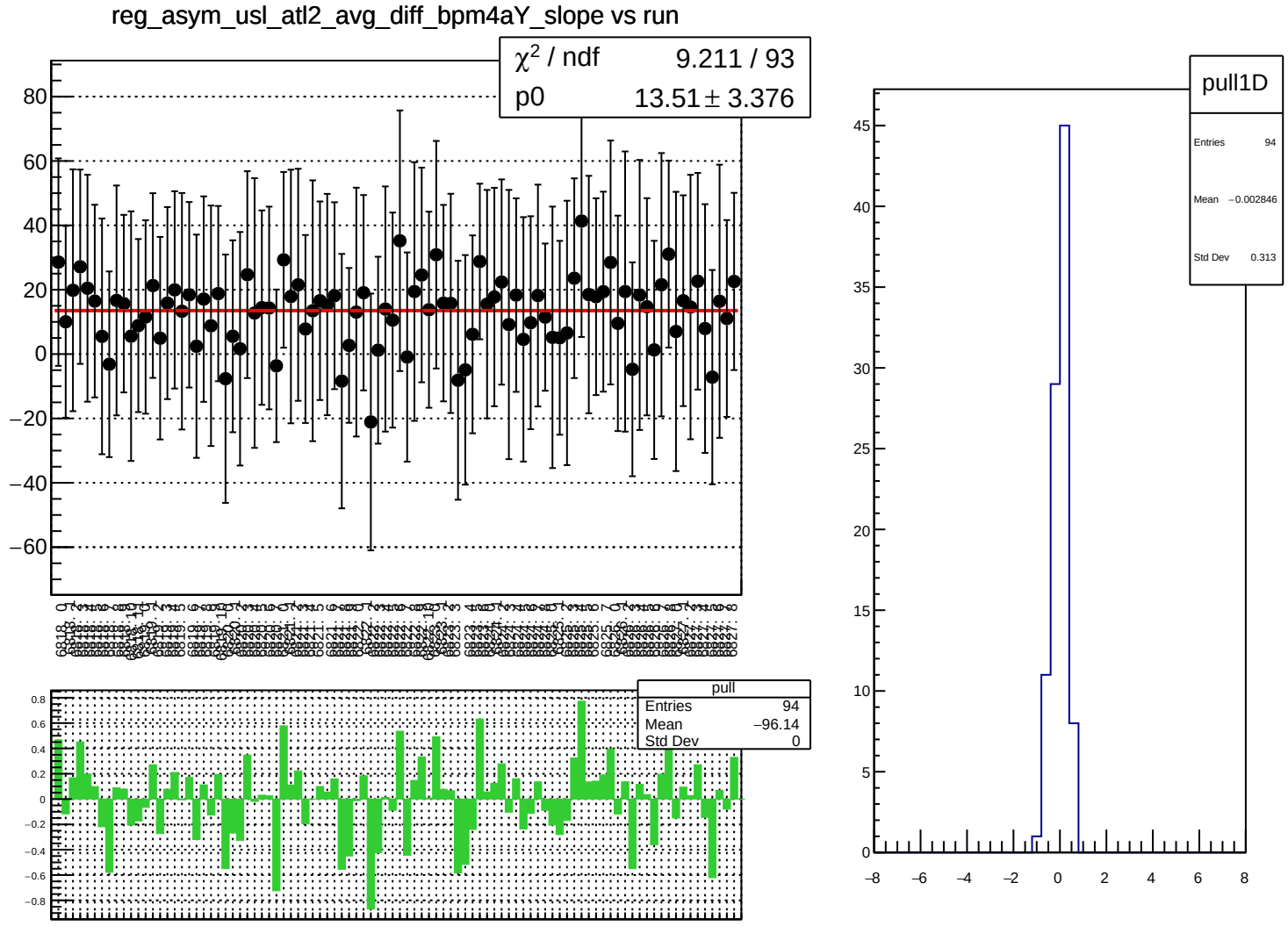

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.82 / 93
p0 22.34 ± 1.071
pull
Entries 94
Mean 84.67
Std Dev 0

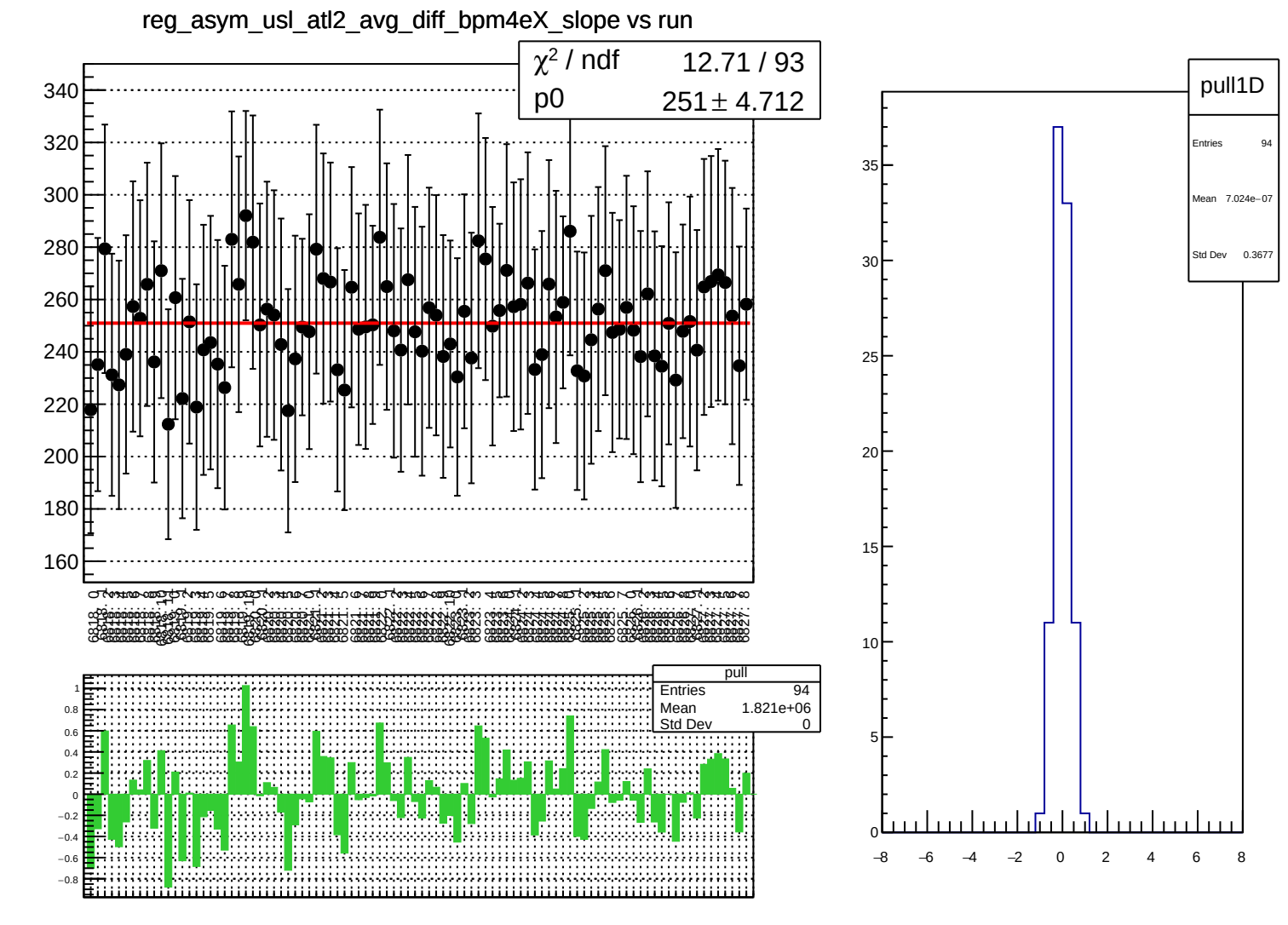

pull1D
Entries 94
Mean 0.01281
Std Dev 0.8239

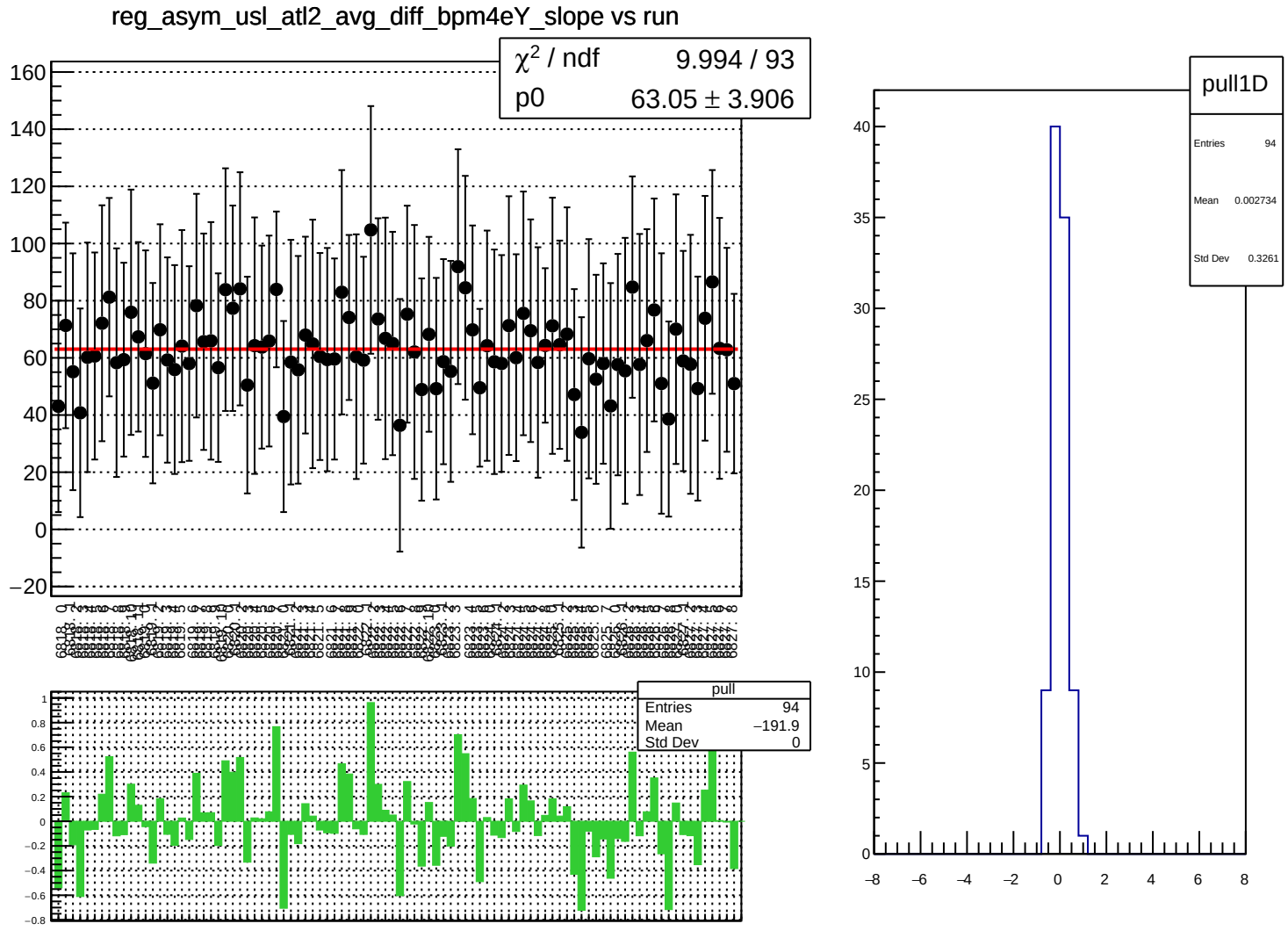

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 113.6 / 93
p0 −10.33 ± 0.05219
pull
Entries 94
Mean 197.6
Std Dev 0
pull1D
Entries 94
Mean 0.005861
Std Dev 1.099

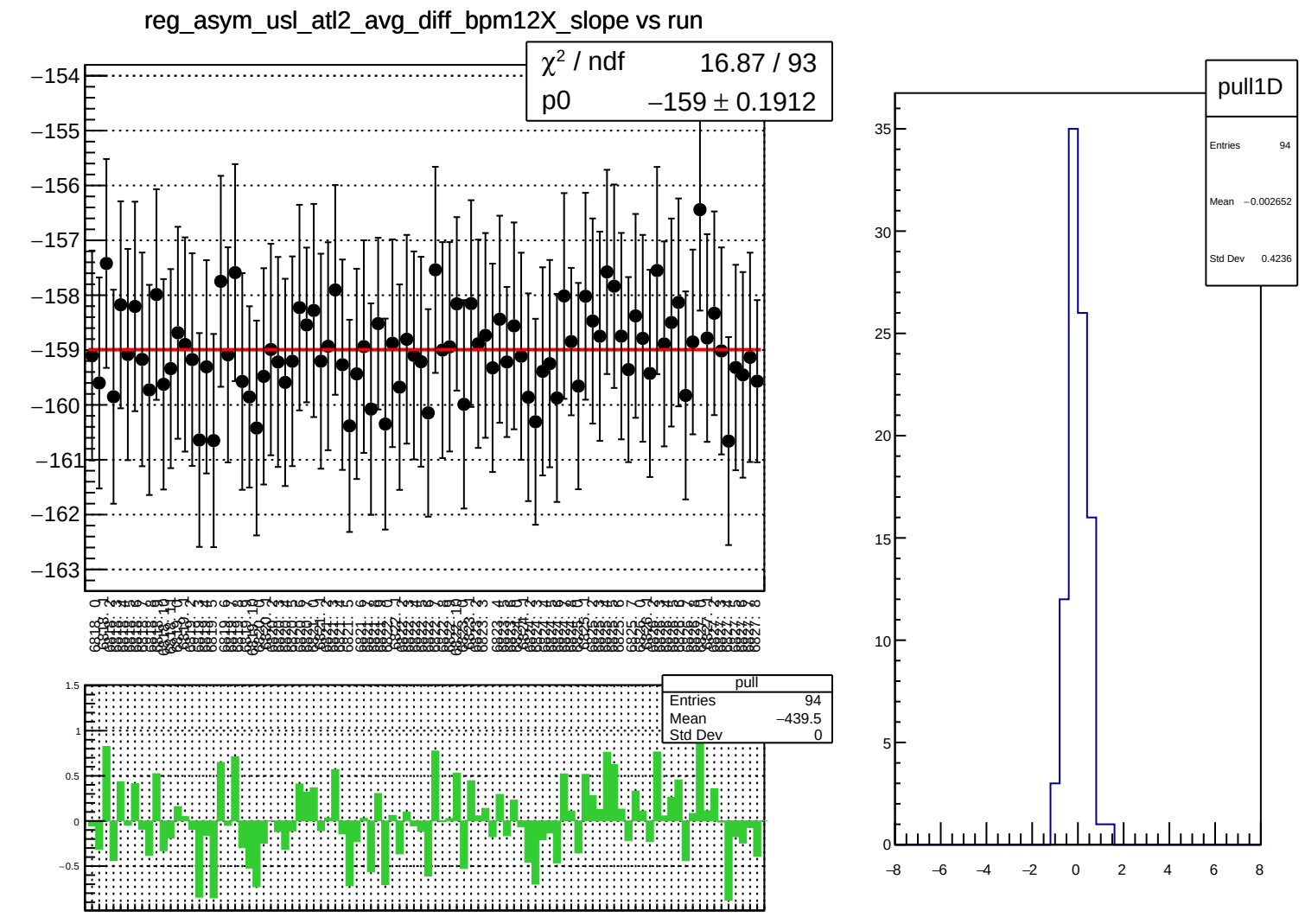

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 12.99 / 93
p0 −336.7 ± 5.044
pull
Entries 94
Mean 1.783e+04
Std Dev 0

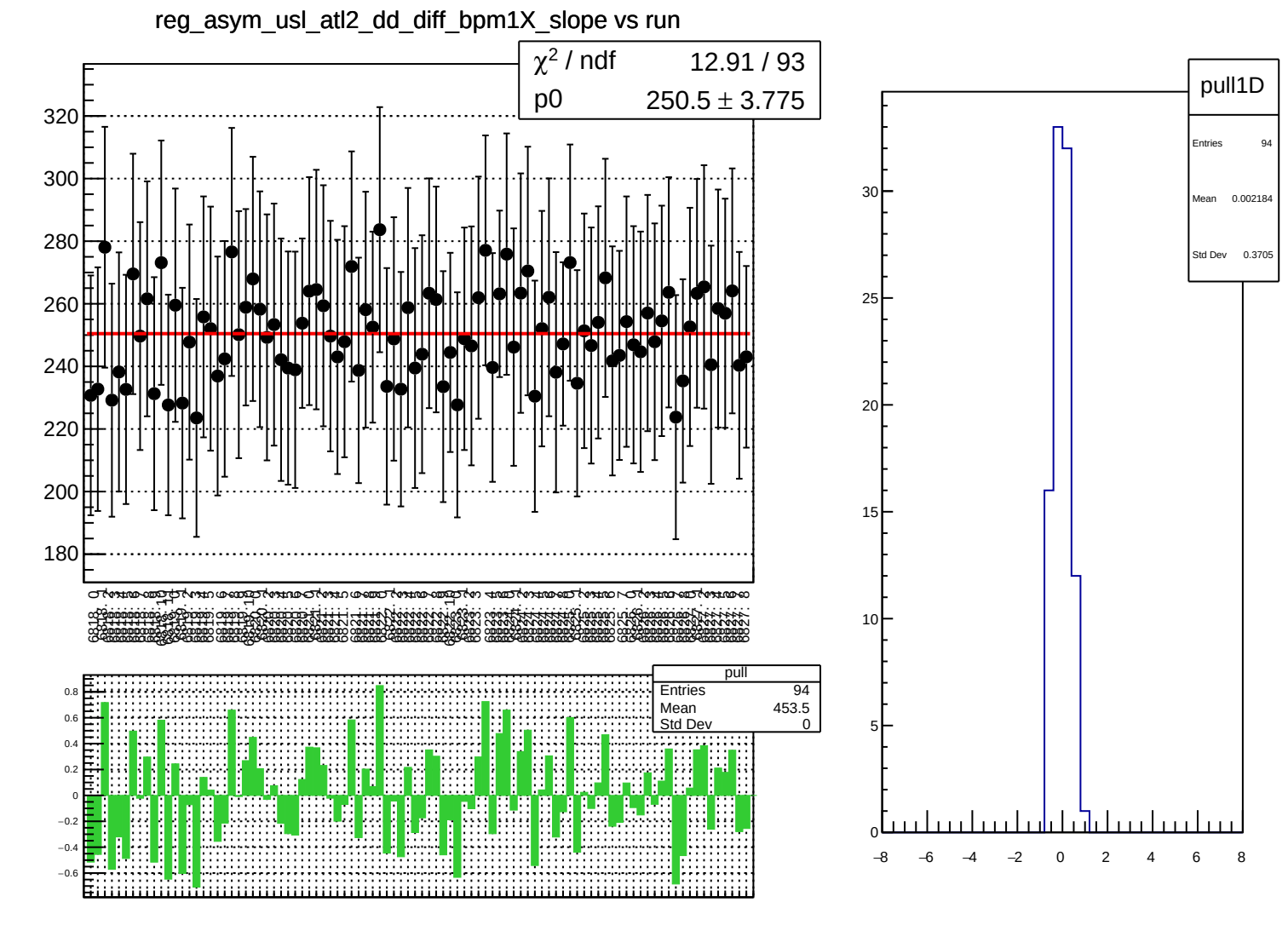

pull1D
Entries 94
Mean −8.422e−05
Std Dev 0.3718

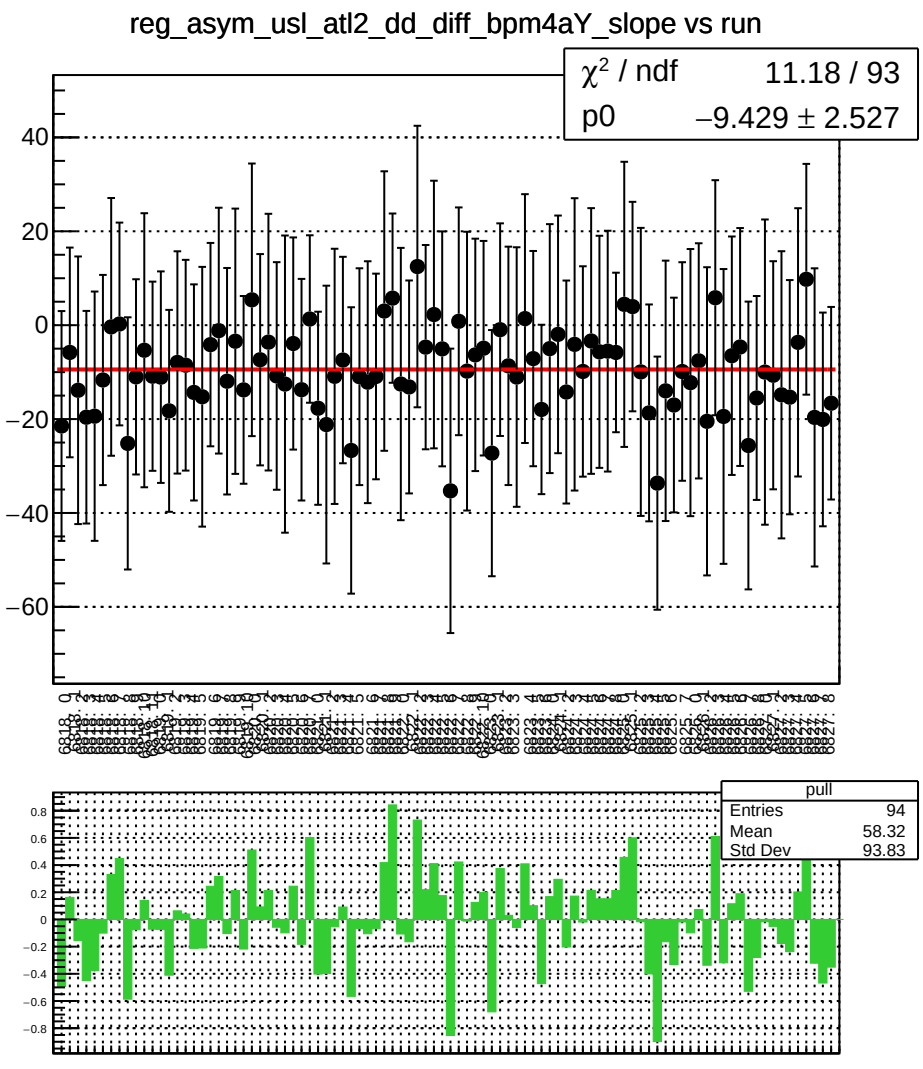

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.211 / 93
p0 13.51 ± 3.376
pull
Entries 94
Mean −96.14
Std Dev 0
pull1D
Entries 94
Mean −0.002846
Std Dev 0.313

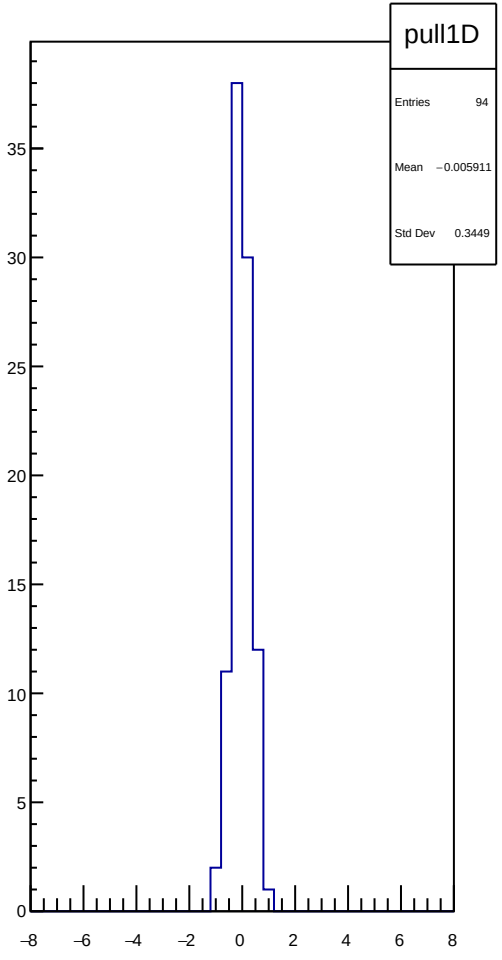

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.71 / 93
p0 251 ± 4.712
pull
Entries 94
Mean 1.821e+06
Std Dev 0
pull1D
Entries 94
Mean 7.024e−07
Std Dev 0.3677

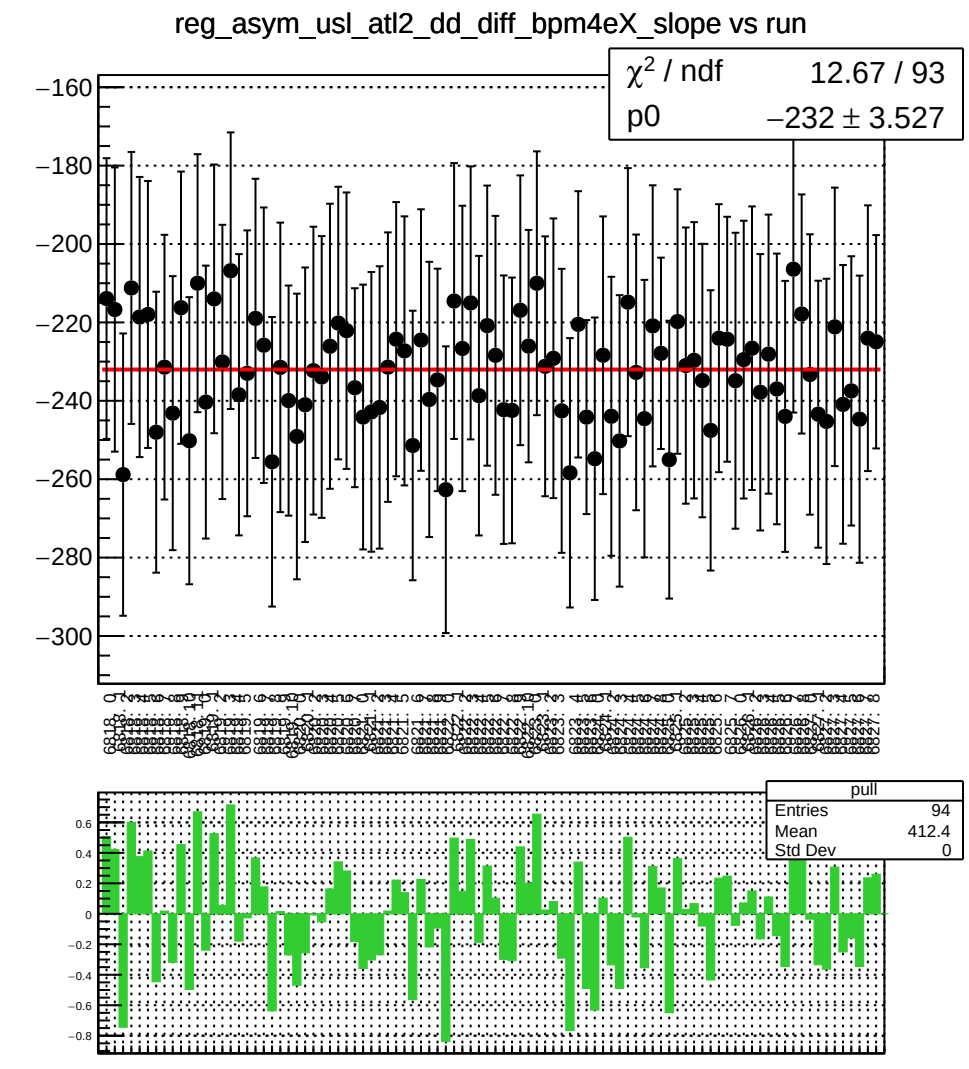

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.994 / 93
p0 63.05 ± 3.906
pull
Entries 94
Mean −191.9
Std Dev 0
pull1D
Entries 94
Mean 0.002734
Std Dev 0.3261

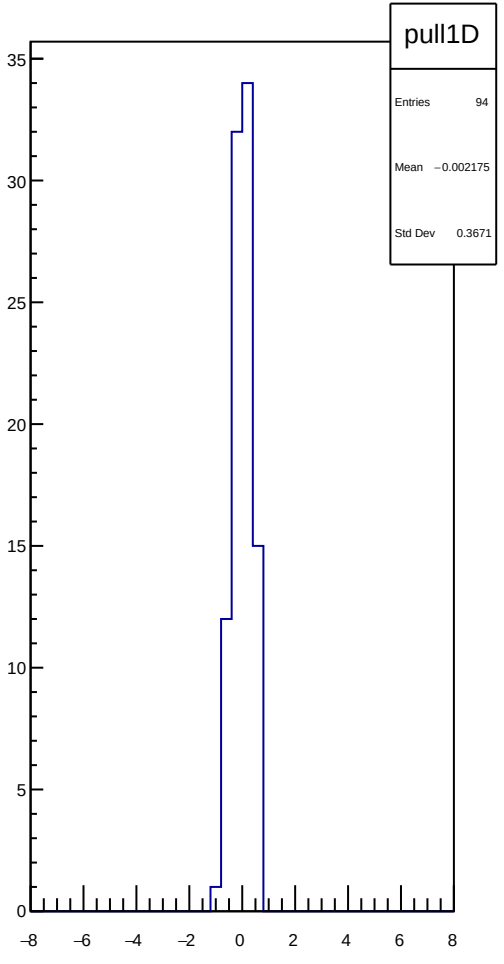

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 16.87 / 93
p0 −159 ± 0.1912
pull
Entries 94
Mean −439.5
Std Dev 0
pull1D
Entries 94
Mean −0.002652
Std Dev 0.4236

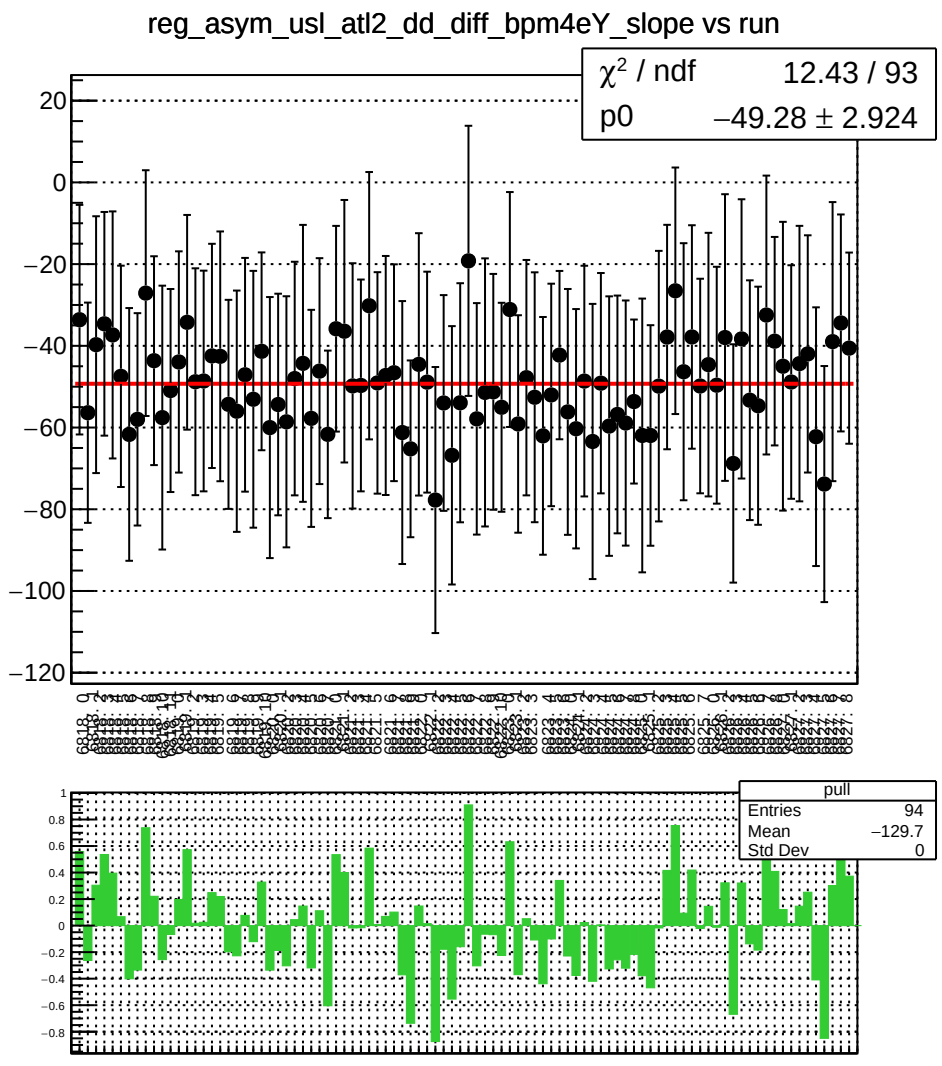

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 12.91 / 93
p0 250.5 ± 3.775
320
300
280
260
240
220
200
180
pull
Entries 94
Mean 453.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean 0.002184
Std Dev 0.3705
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

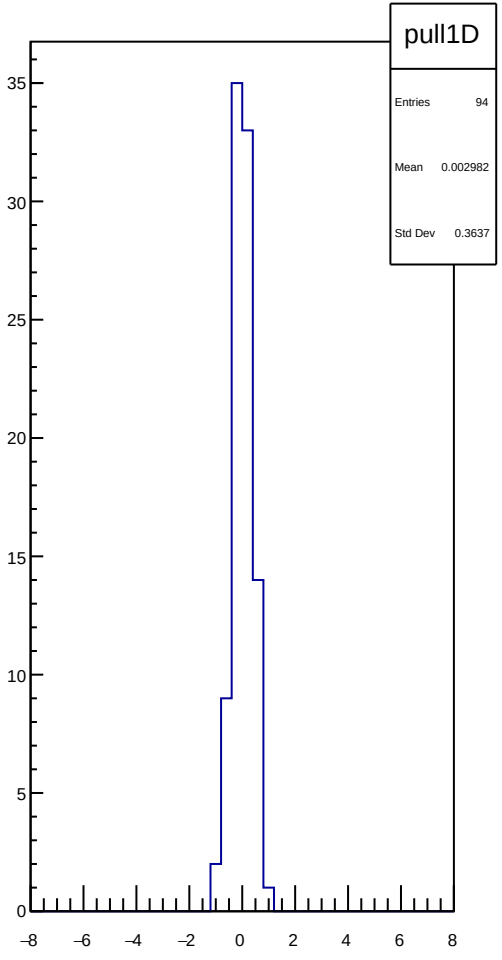

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.18 / 93
p0 −9.429 ± 2.527
40
20
0
−20
−40
−60
pull
Entries 94
Mean 58.32
Std Dev 93.83
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

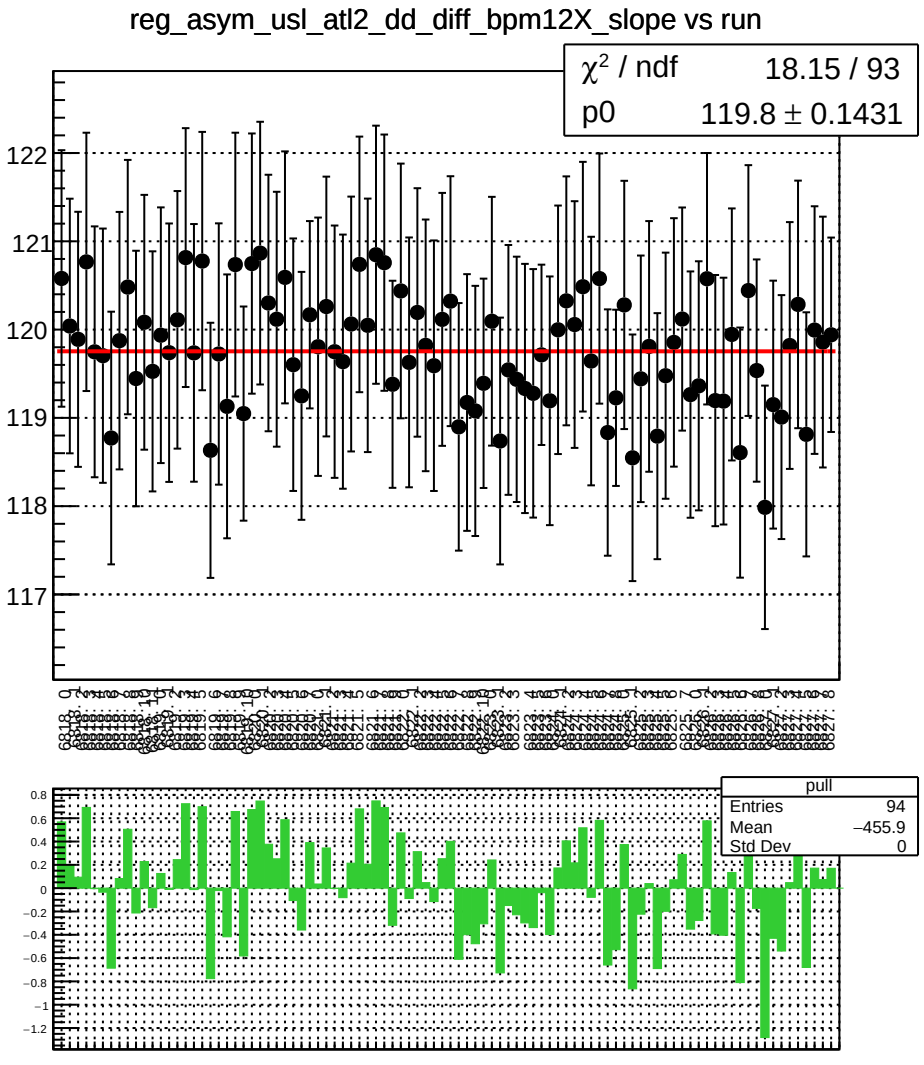

pull1D
Entries 94
Mean −0.005911
Std Dev 0.3449
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

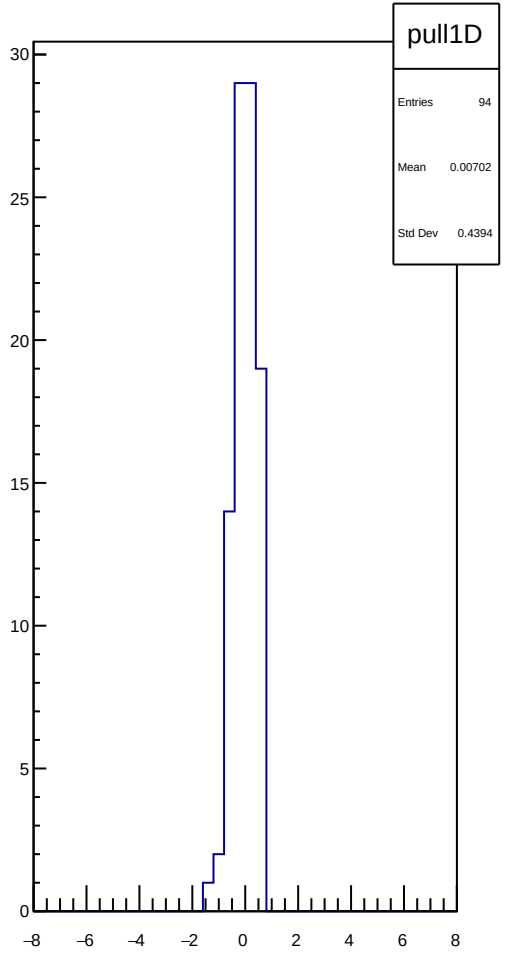

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.67 / 93
p0 −232 ± 3.527
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 94
Mean 412.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

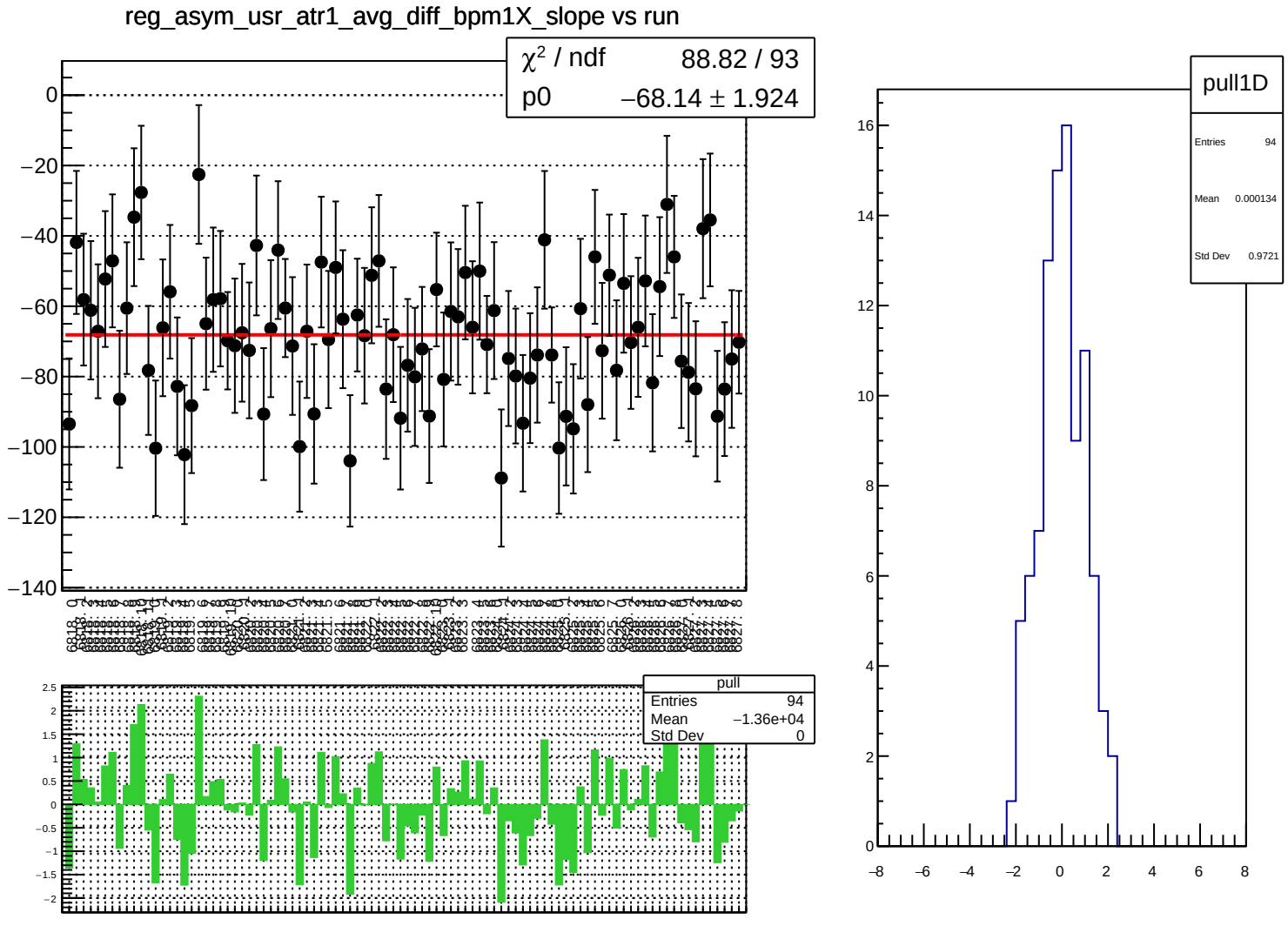

pull1D
Entries 94
Mean −0.002175
Std Dev 0.3671
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

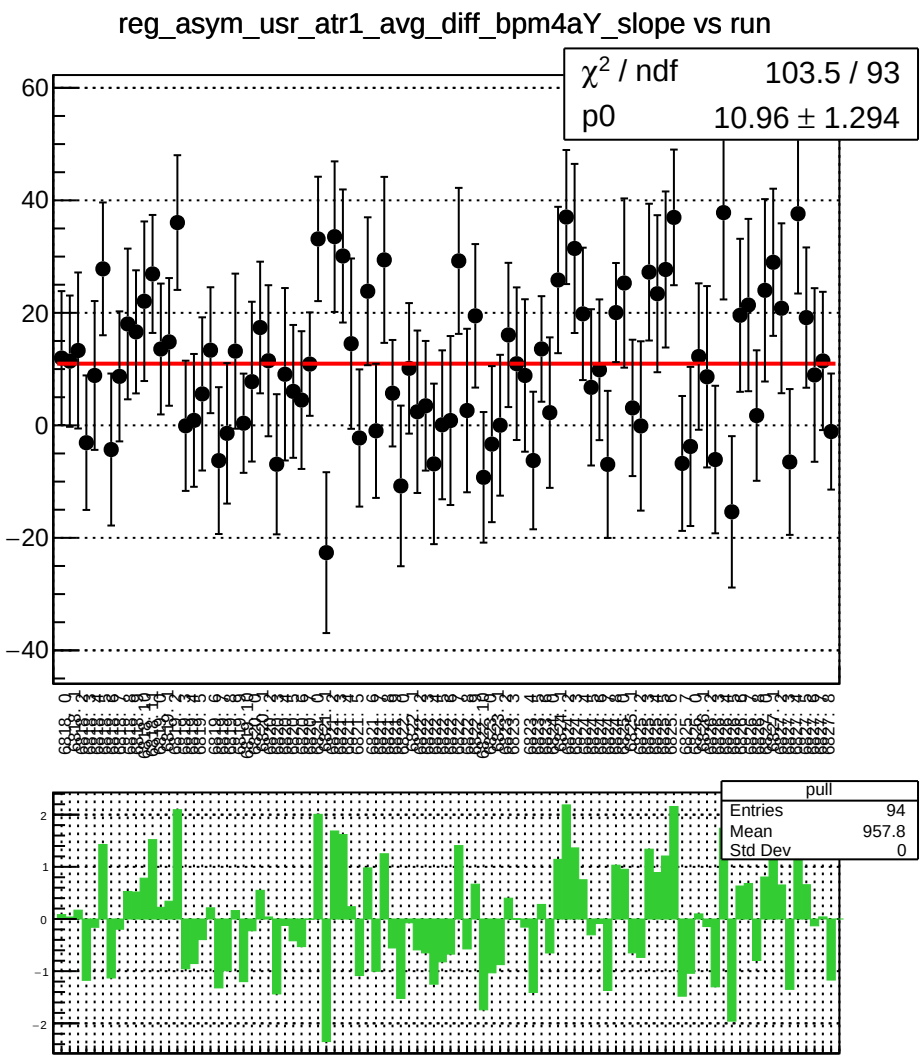

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.43 / 93
p0 −49.28 ± 2.924
pull
Entries 94
Mean −129.7
Std Dev 0

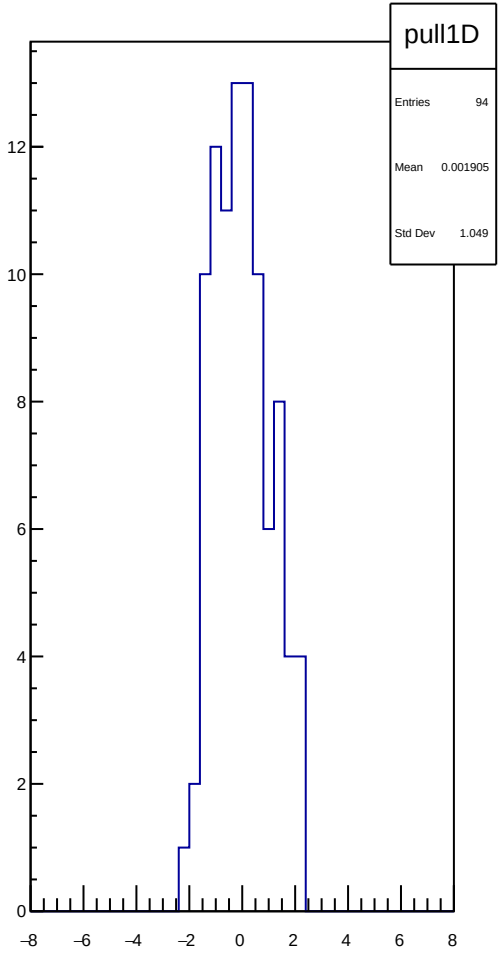

pull1D
Entries 94
Mean 0.002982
Std Dev 0.3637

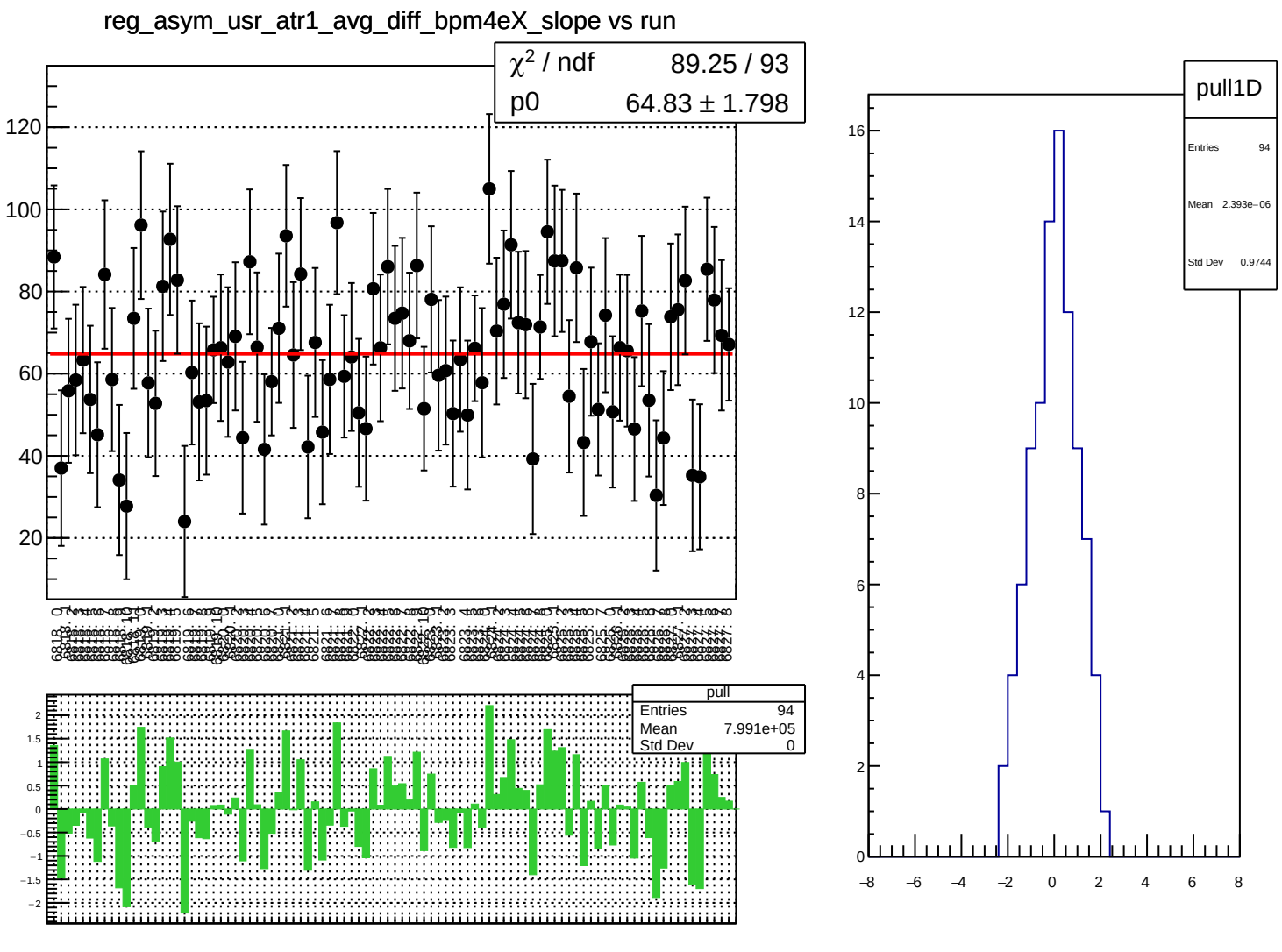

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 18.15 / 93
p0 119.8 ± 0.1431
122
121
120
119
118
117
pull
Entries 94
Mean −455.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

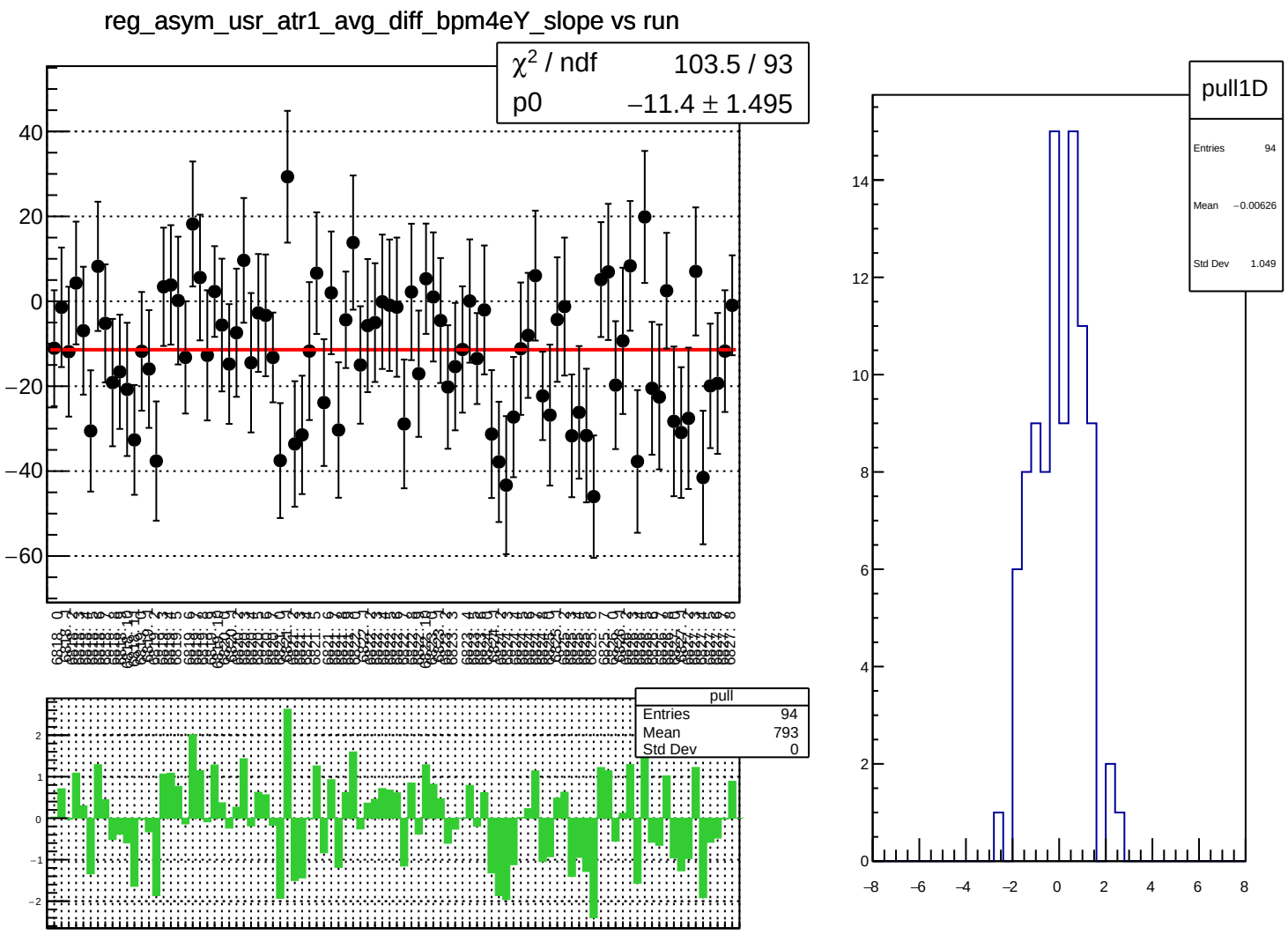

pull1D
Entries 94
Mean 0.00702
Std Dev 0.4394
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

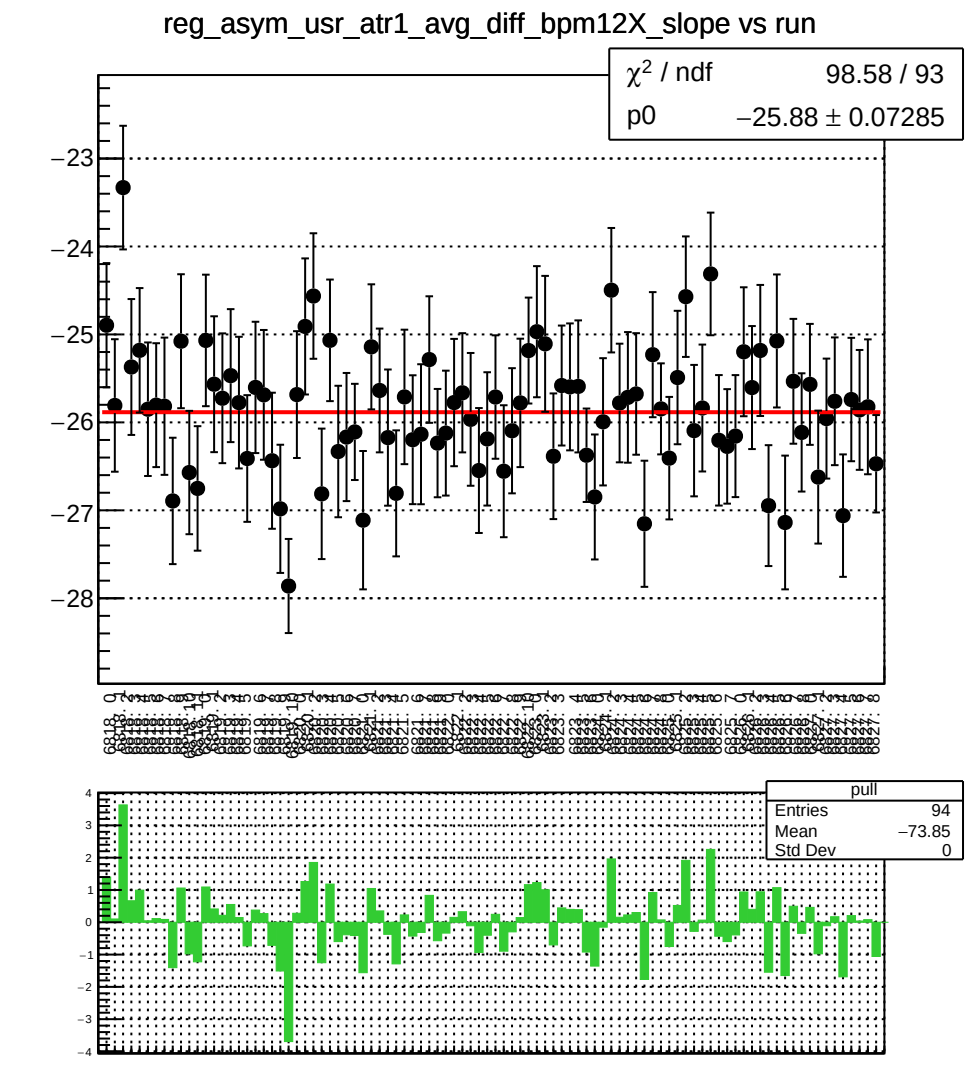

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 88.82 / 93
p0 −68.14 ± 1.924
pull
Entries 94
Mean −1.36e+04
Std Dev 0
pull1D
Entries 94
Mean 0.000134
Std Dev 0.9721

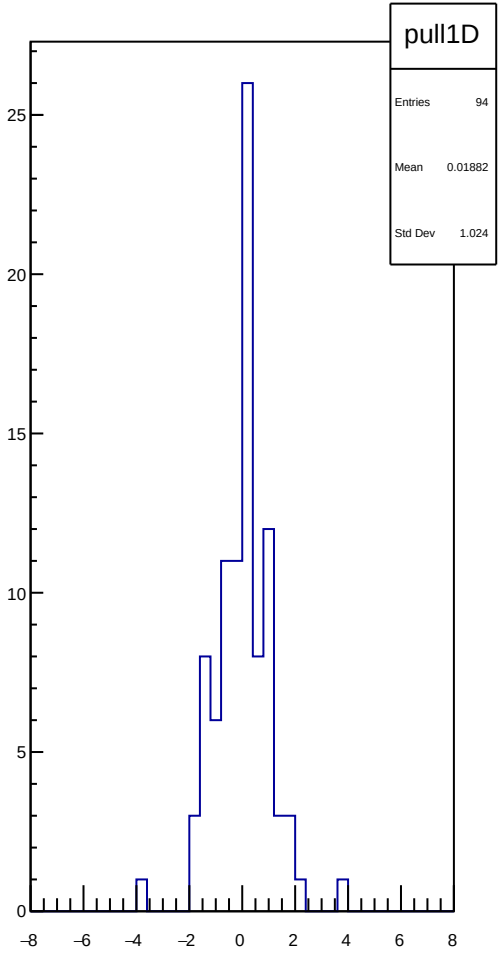

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 103.5 / 93
p0 10.96 ± 1.294
pull
Entries 94
Mean 957.8
Std Dev 0

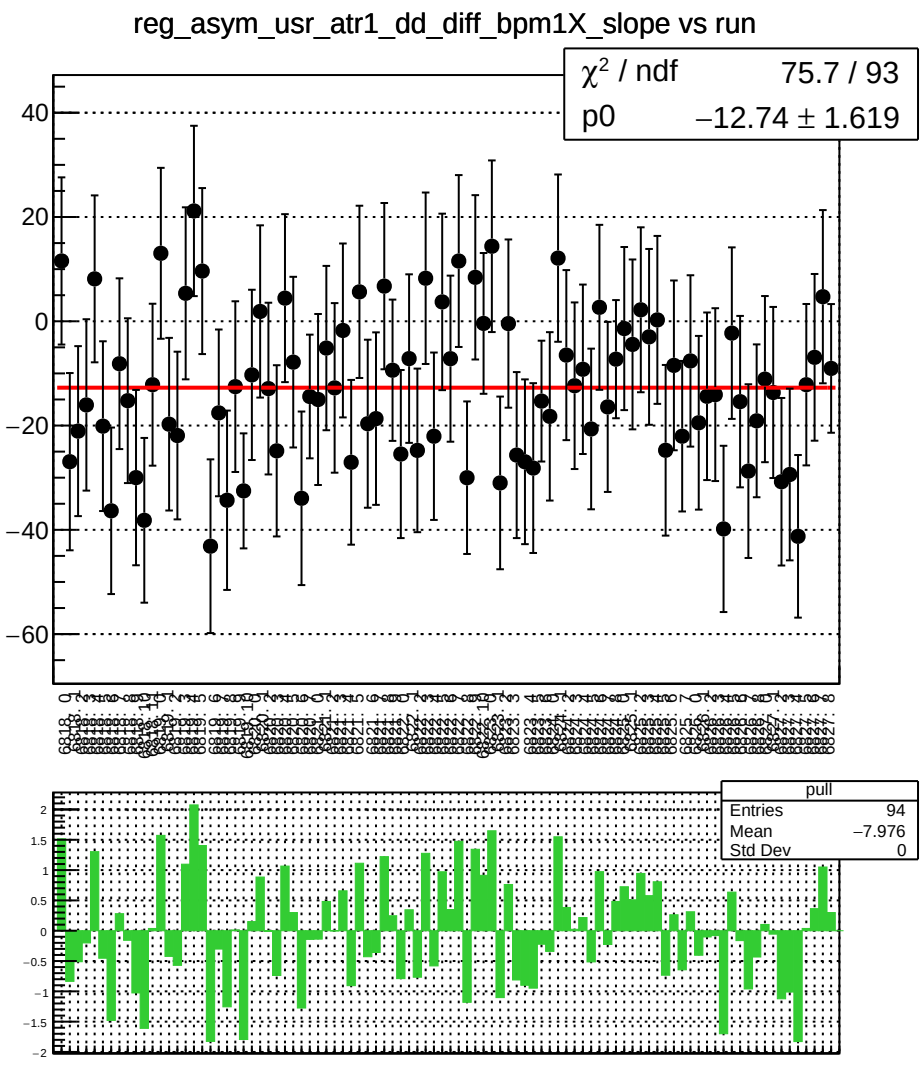

pull1D
Entries 94
Mean 0.001905
Std Dev 1.049

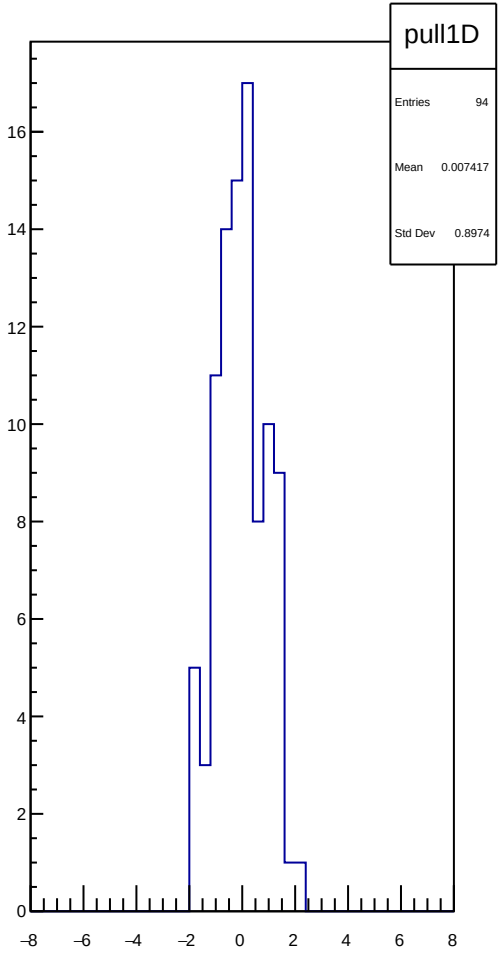

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.25 / 93
p0 64.83 ± 1.798
120
100
80
60
40
20
pull
Entries 94
Mean 7.991e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 2.393e−06
Std Dev 0.9744
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

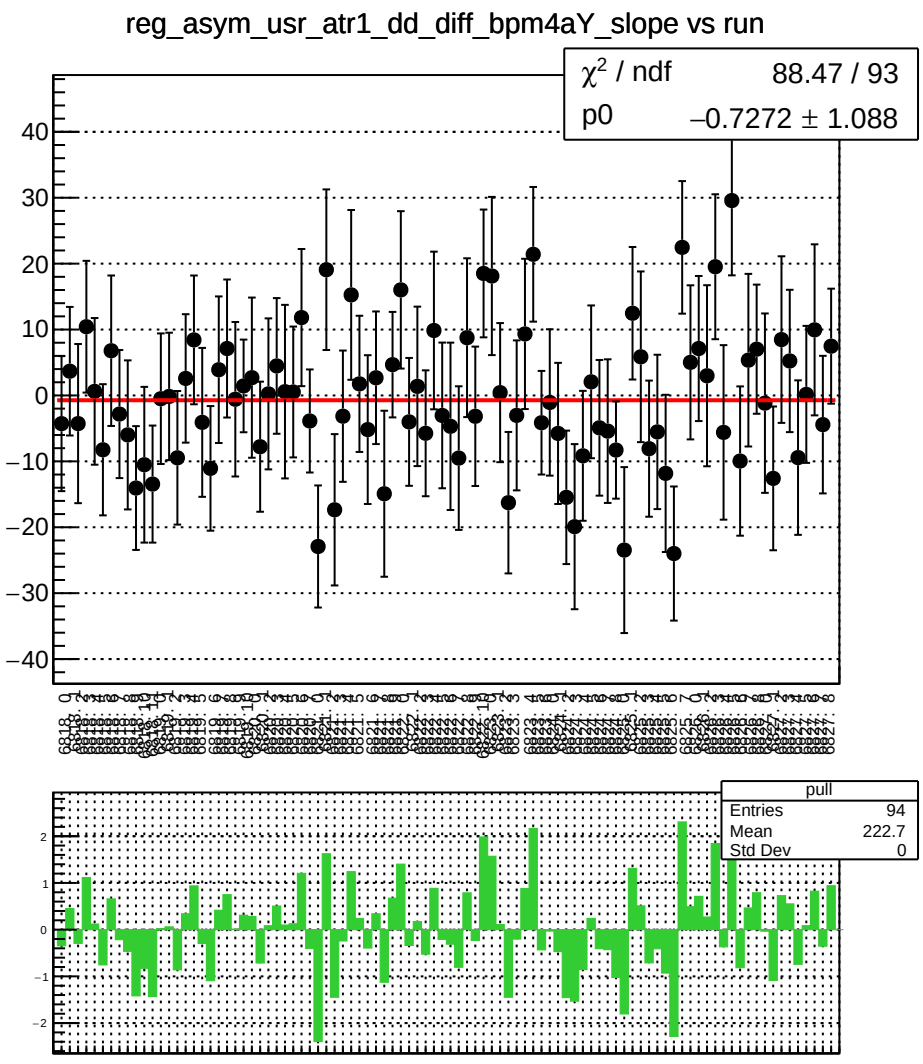

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 103.5 / 93
p0 −11.4 ± 1.495
pull
Entries 94
Mean 793
Std Dev 0
pull1D
Entries 94
Mean −0.00626
Std Dev 1.049

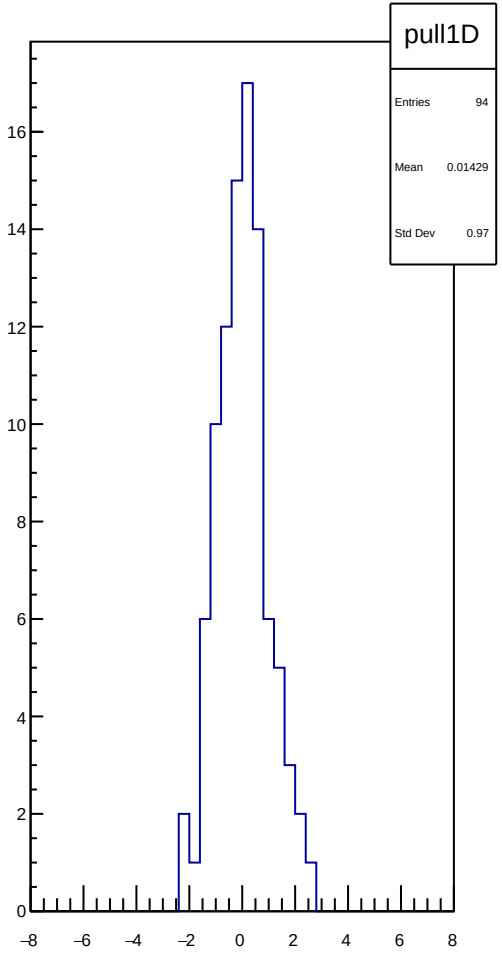

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 98.58 / 93
p0 −25.88 ± 0.07285
pull
Entries 94
Mean −73.85
Std Dev 0

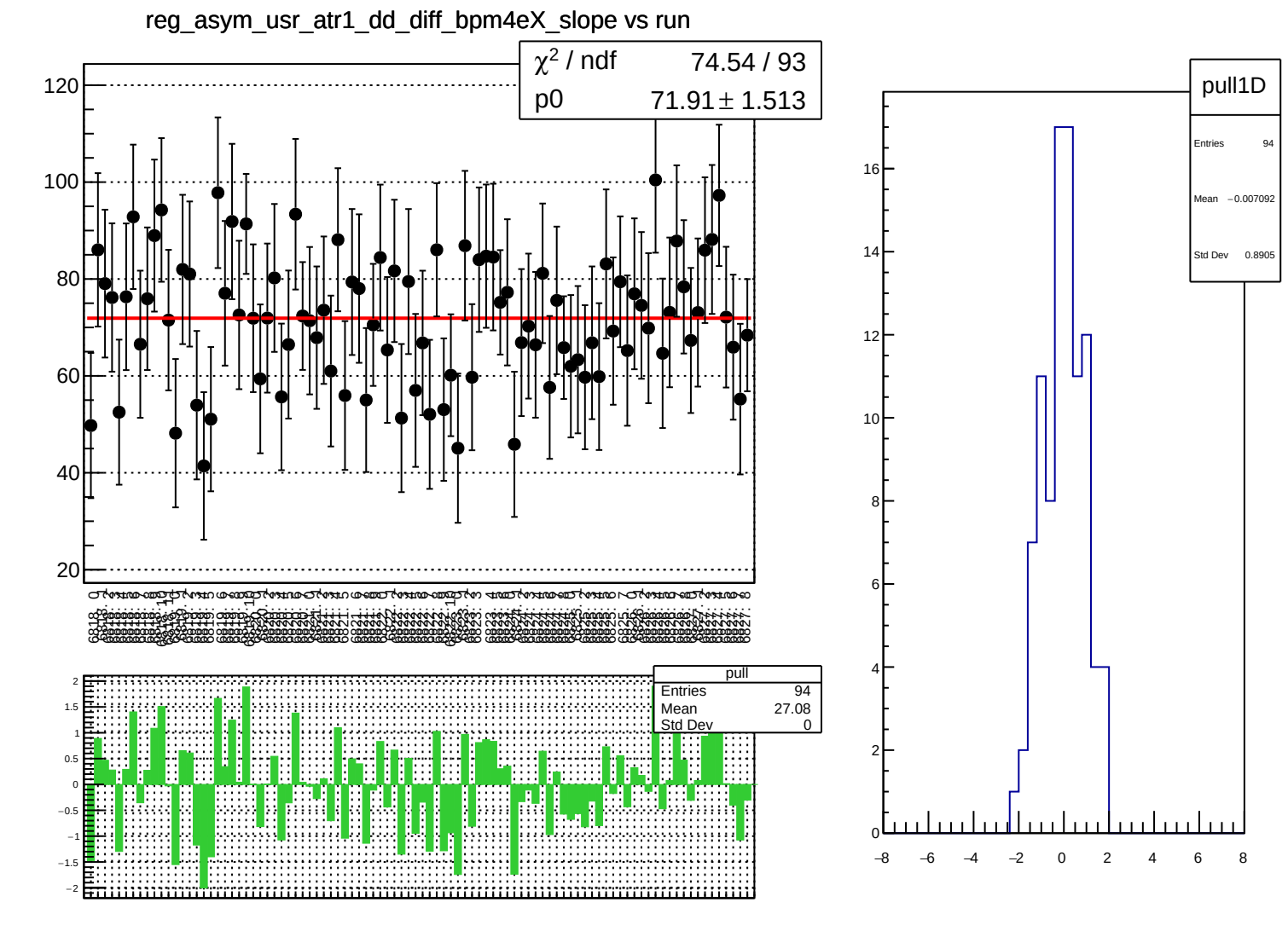

pull1D
Entries 94
Mean 0.01882
Std Dev 1.024

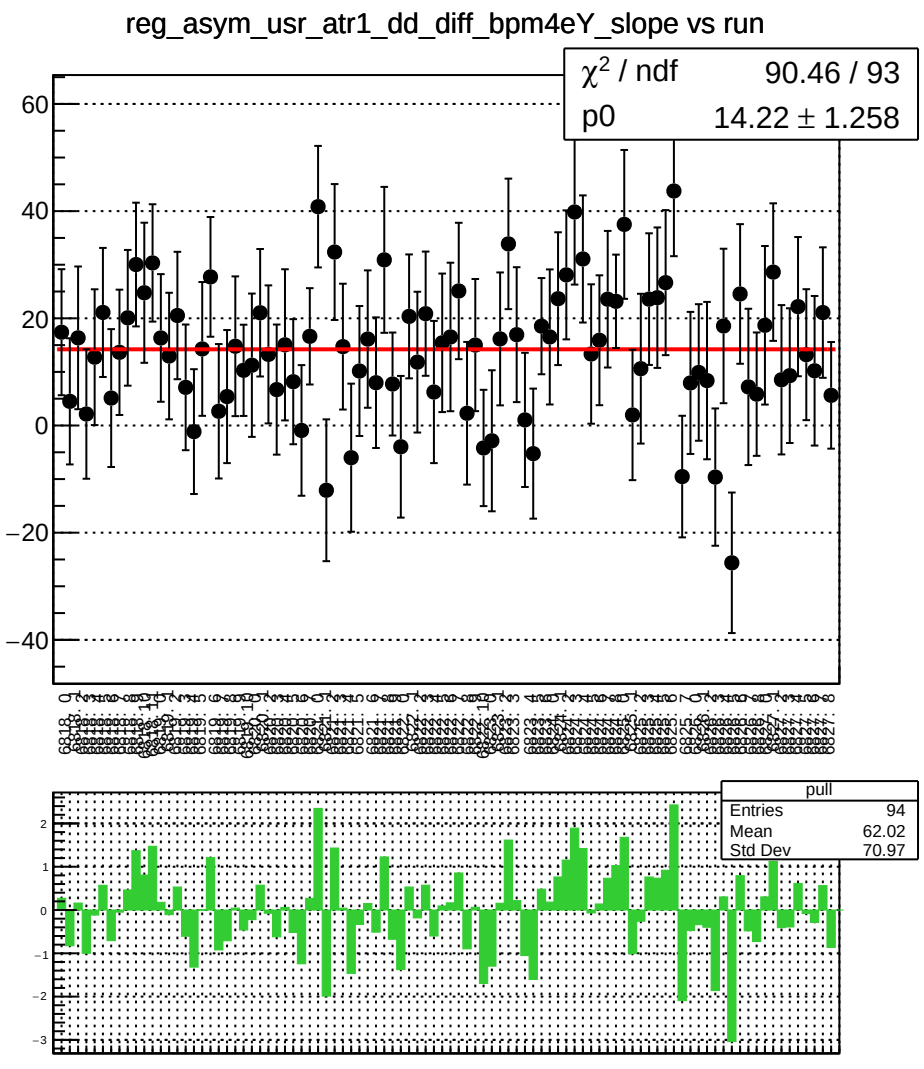

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 75.7 / 93
p0 −12.74 ± 1.619
pull
Entries 94
Mean −7.976
Std Dev 0

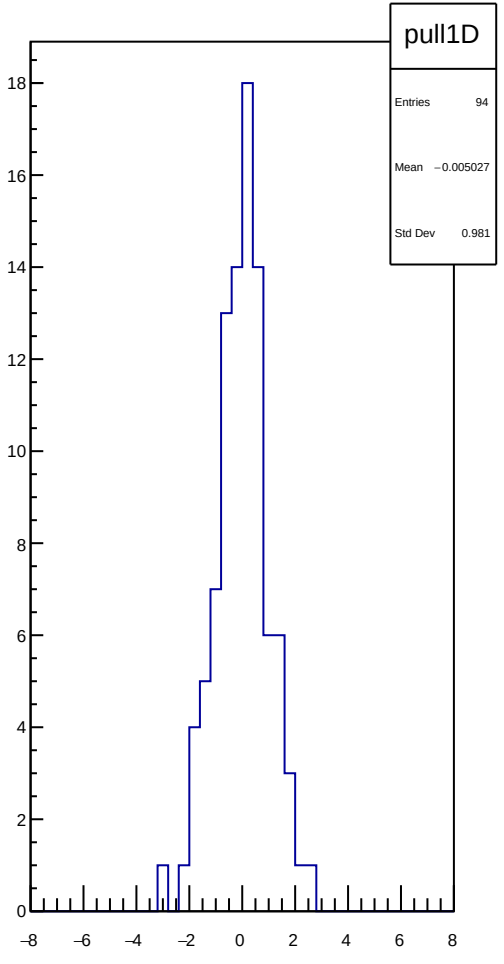

pull1D
Entries 94
Mean 0.007417
Std Dev 0.8974

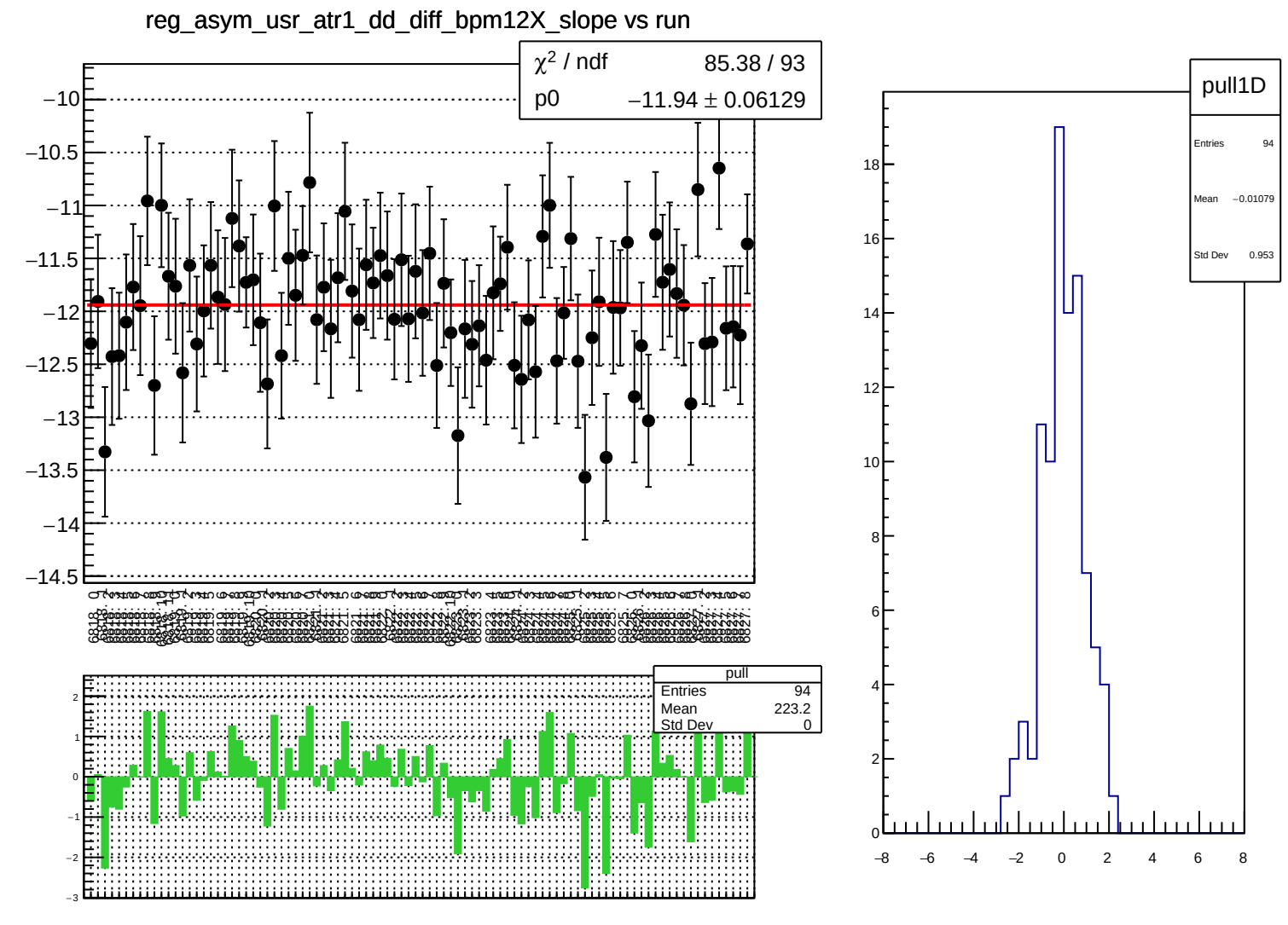

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.47 / 93
p0 −0.7272 ± 1.088
pull
Entries 94
Mean 222.7
Std Dev 0

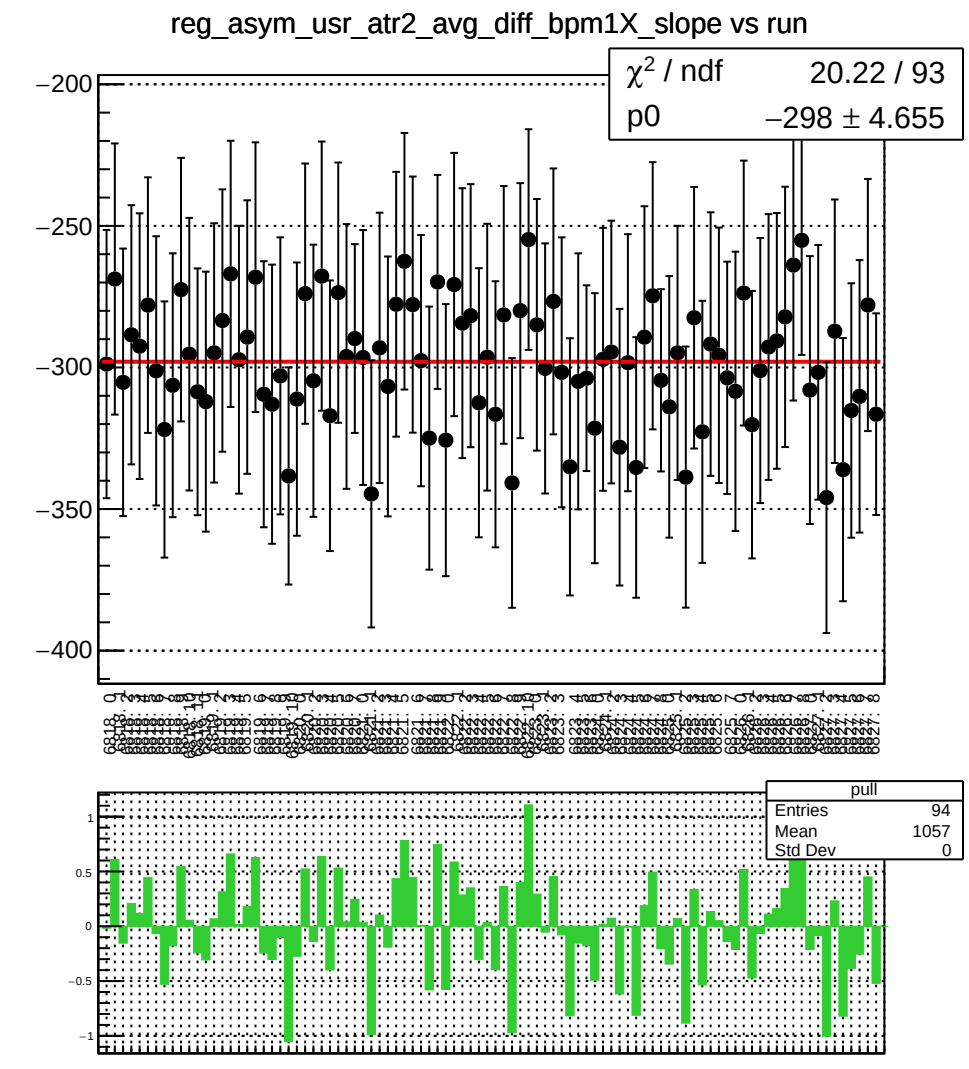

pull1D
Entries 94
Mean 0.01429
Std Dev 0.97

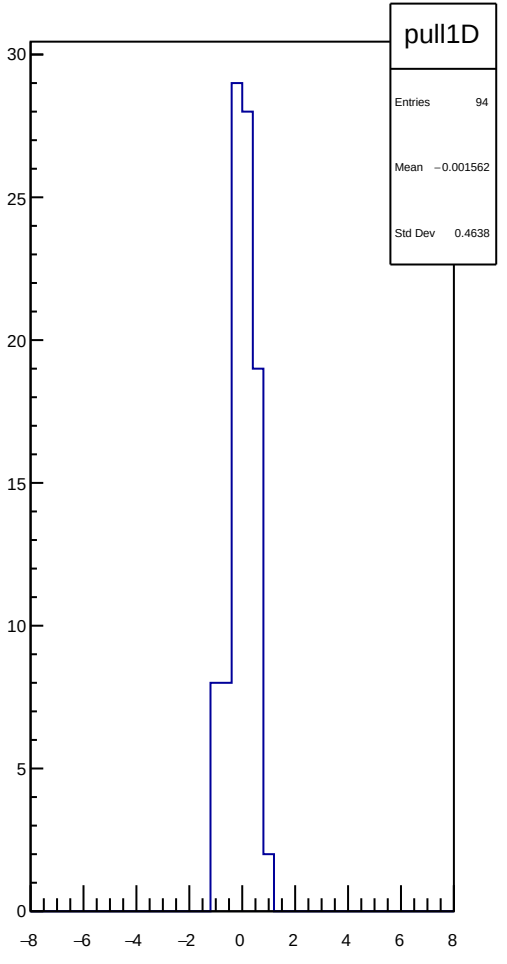

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.54 / 93
p0 71.91 ± 1.513
120
100
80
60
40
20
pull
Entries 94
Mean 27.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean −0.007092
Std Dev 0.8905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

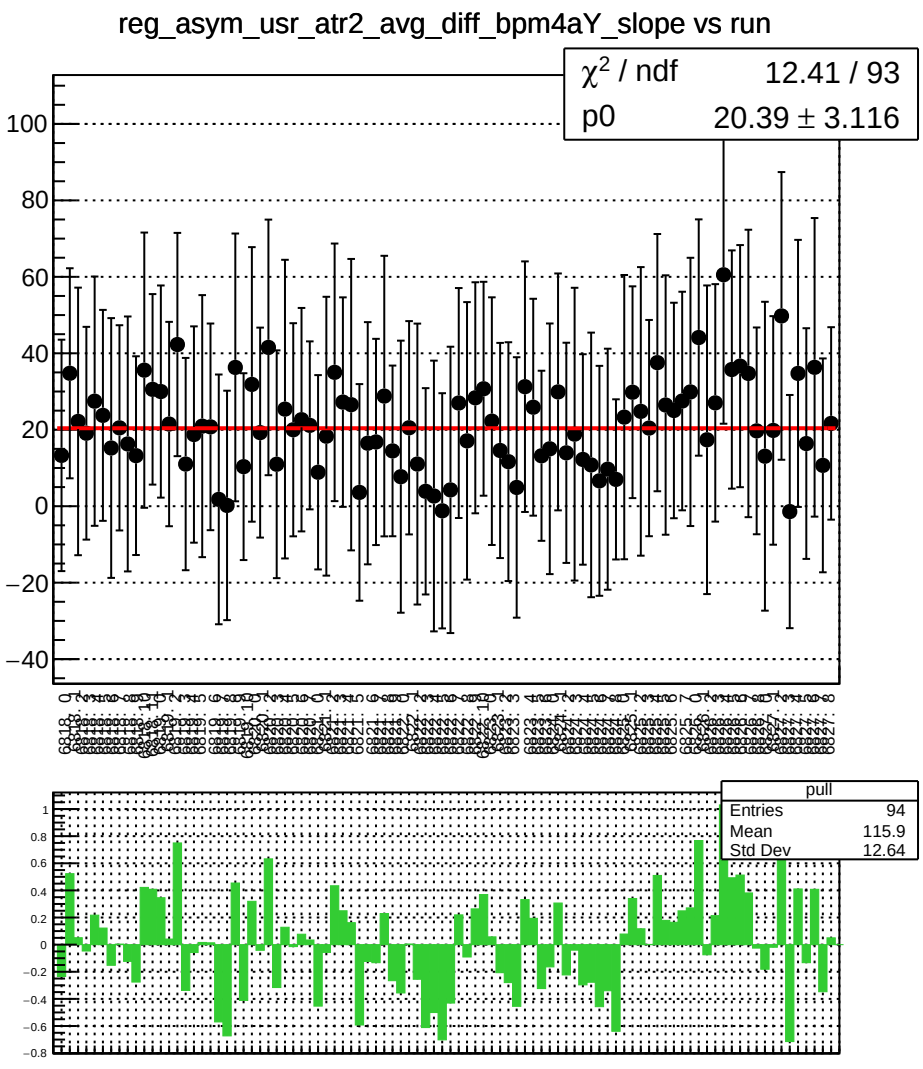

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.46 / 93
p0 14.22 ± 1.258
pull
Entries 94
Mean 62.02
Std Dev 70.97

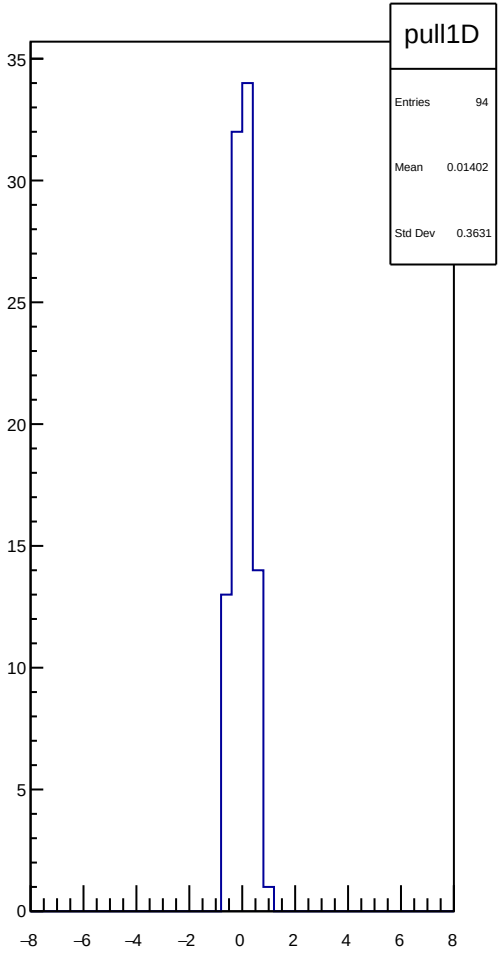

pull1D
Entries 94
Mean −0.005027
Std Dev 0.981

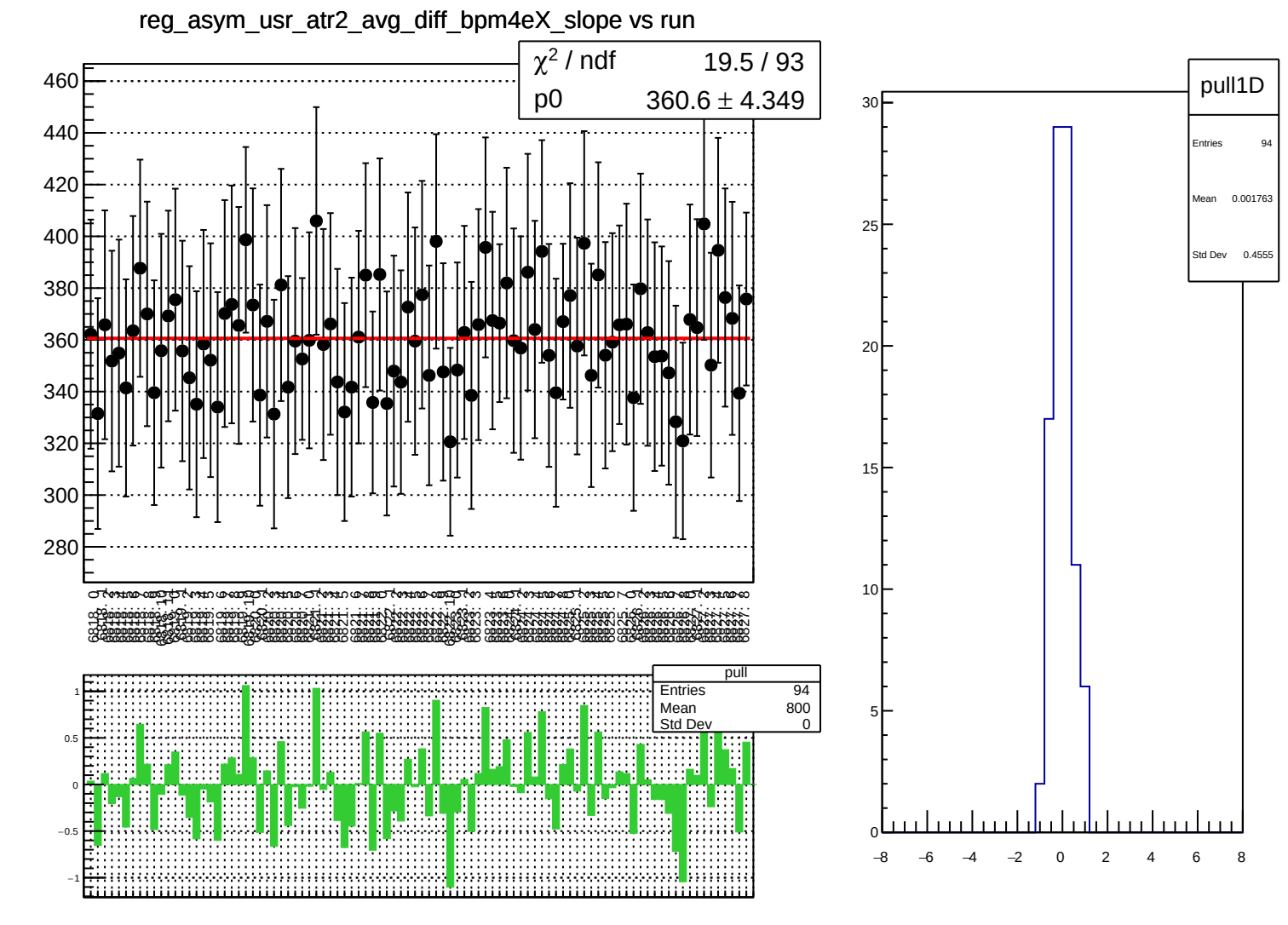

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.38 / 93
p0 −11.94 ± 0.06129
pull
Entries 94
Mean 223.2
Std Dev 0
pull1D
Entries 94
Mean −0.01079
Std Dev 0.953

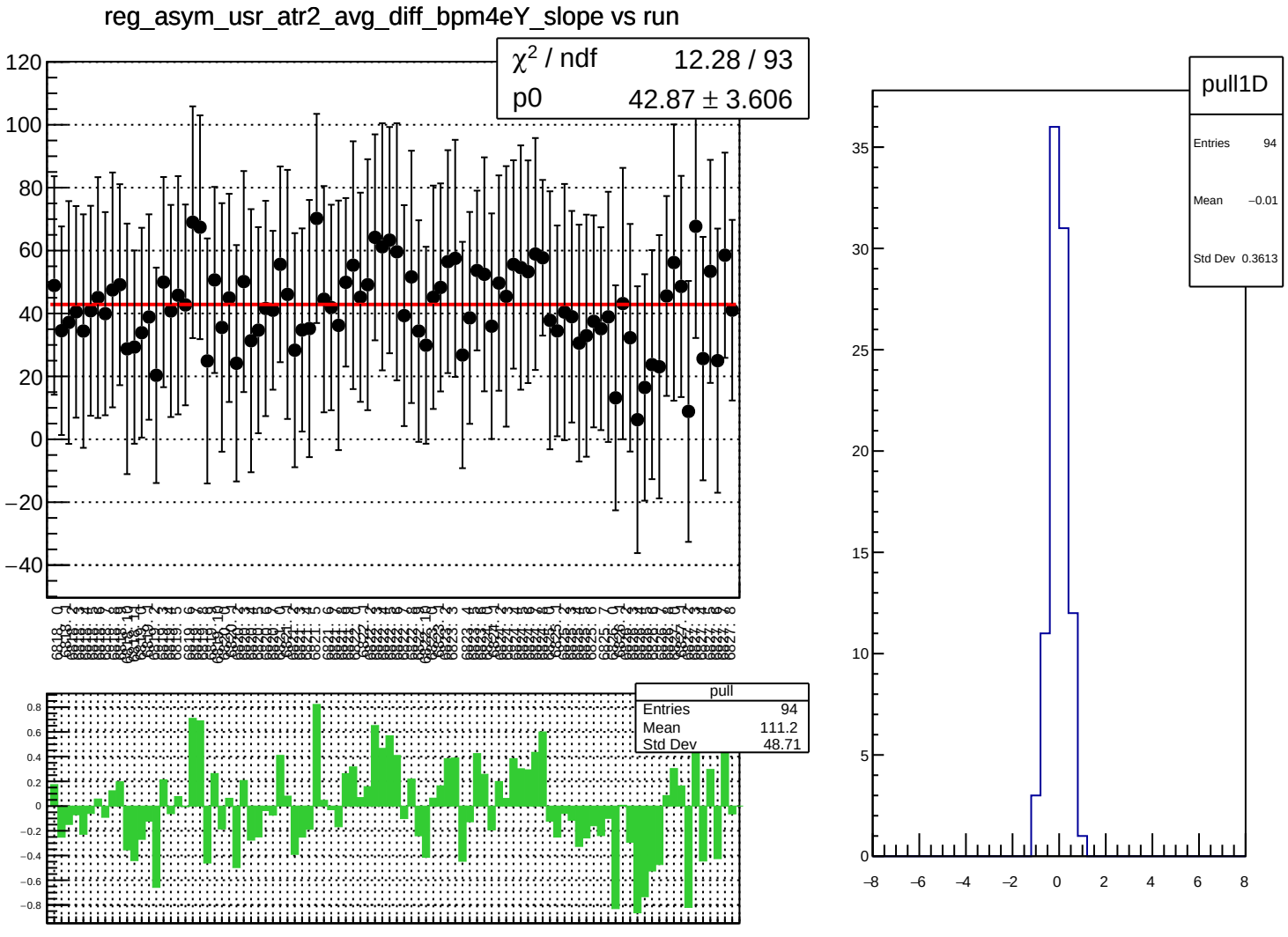

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 20.22 / 93
p0 −298 ± 4.655
−200
−250
−300
−350
−400
pull
Entries 94
Mean 1057
Std Dev 0
1
0.5
0
−0.5
−1

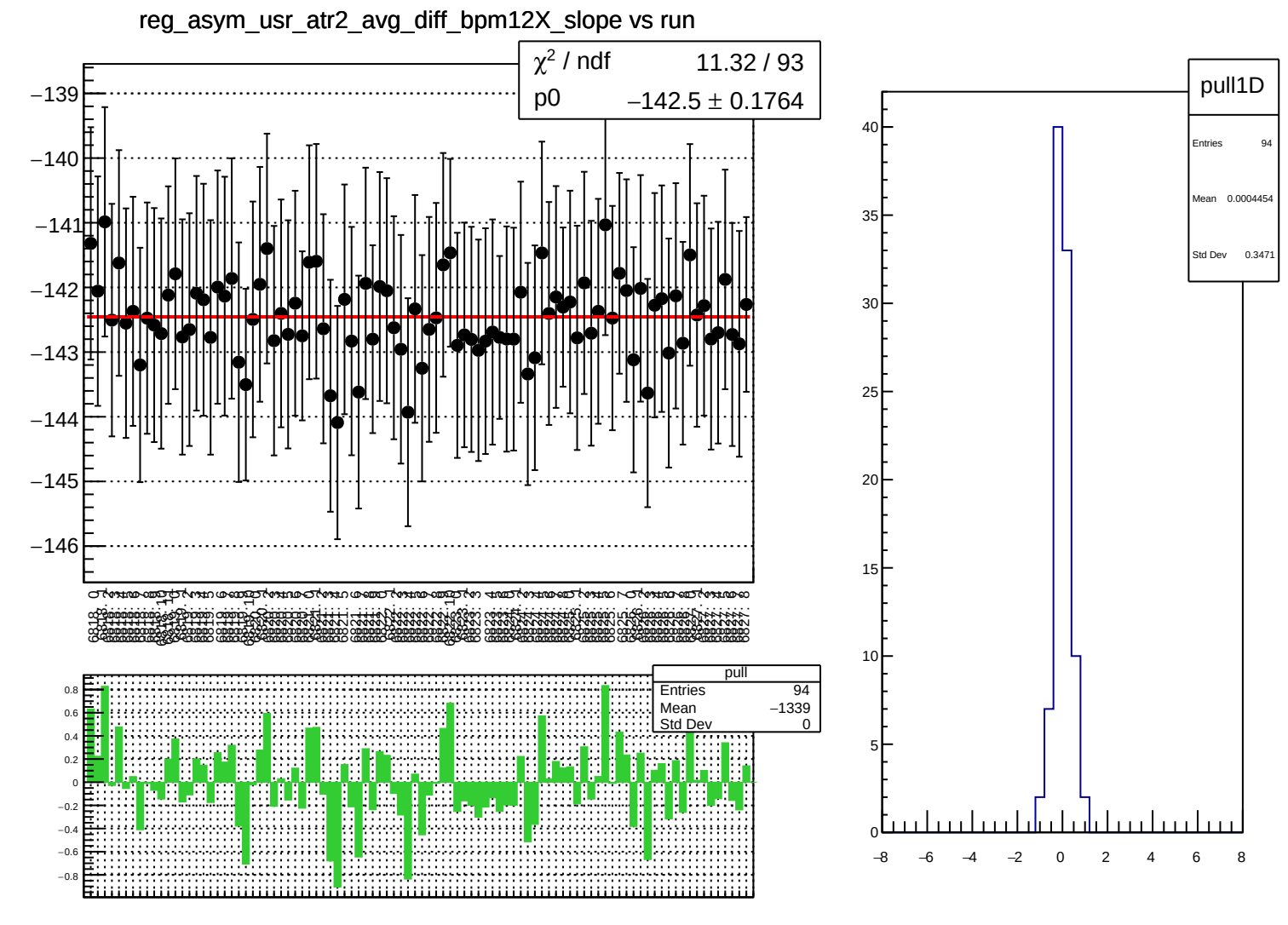

pull1D
Entries 94
Mean −0.001562
Std Dev 0.4638
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

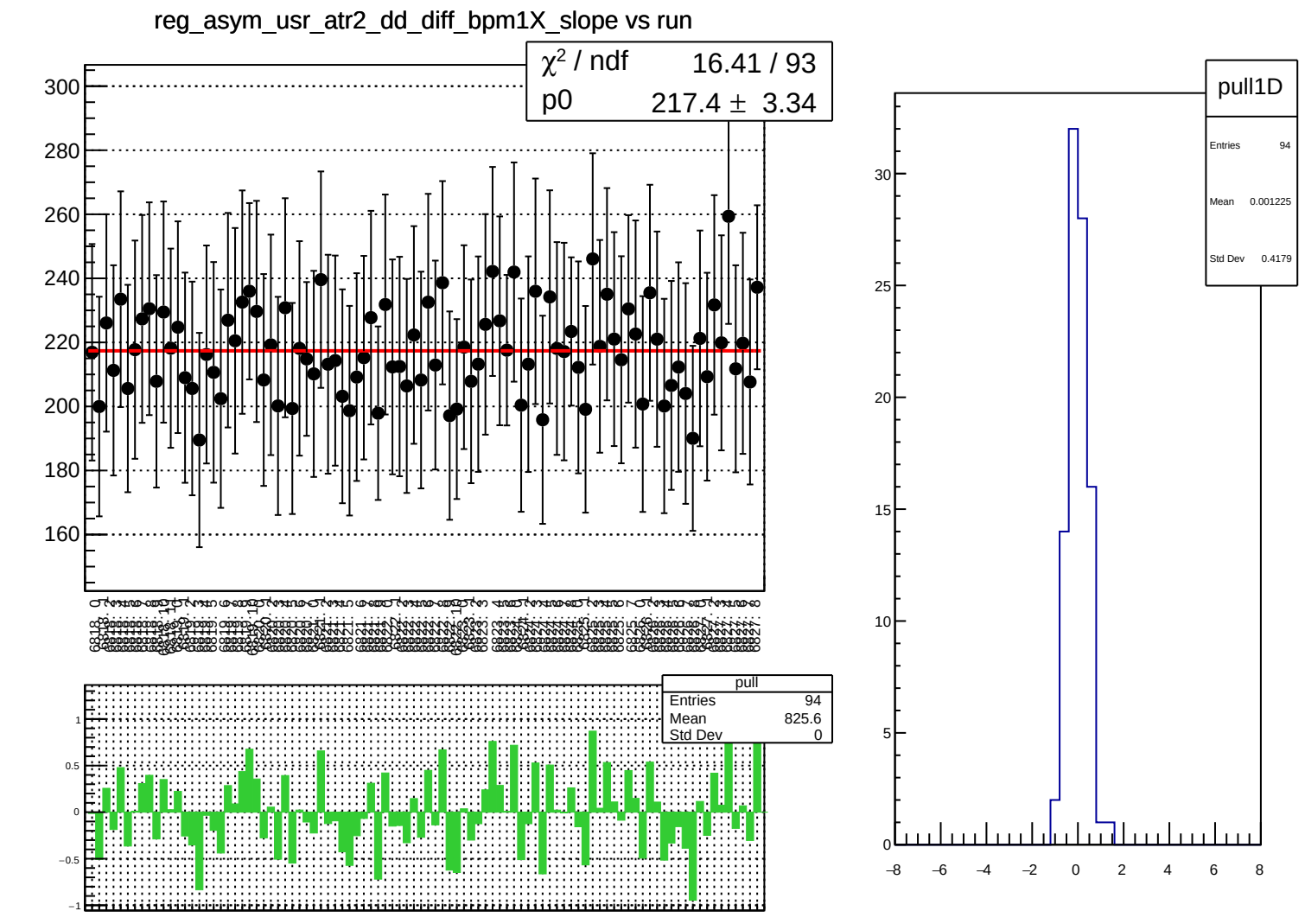

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.41 / 93
p0 20.39 ± 3.116
pull
Entries 94
Mean 115.9
Std Dev 12.64

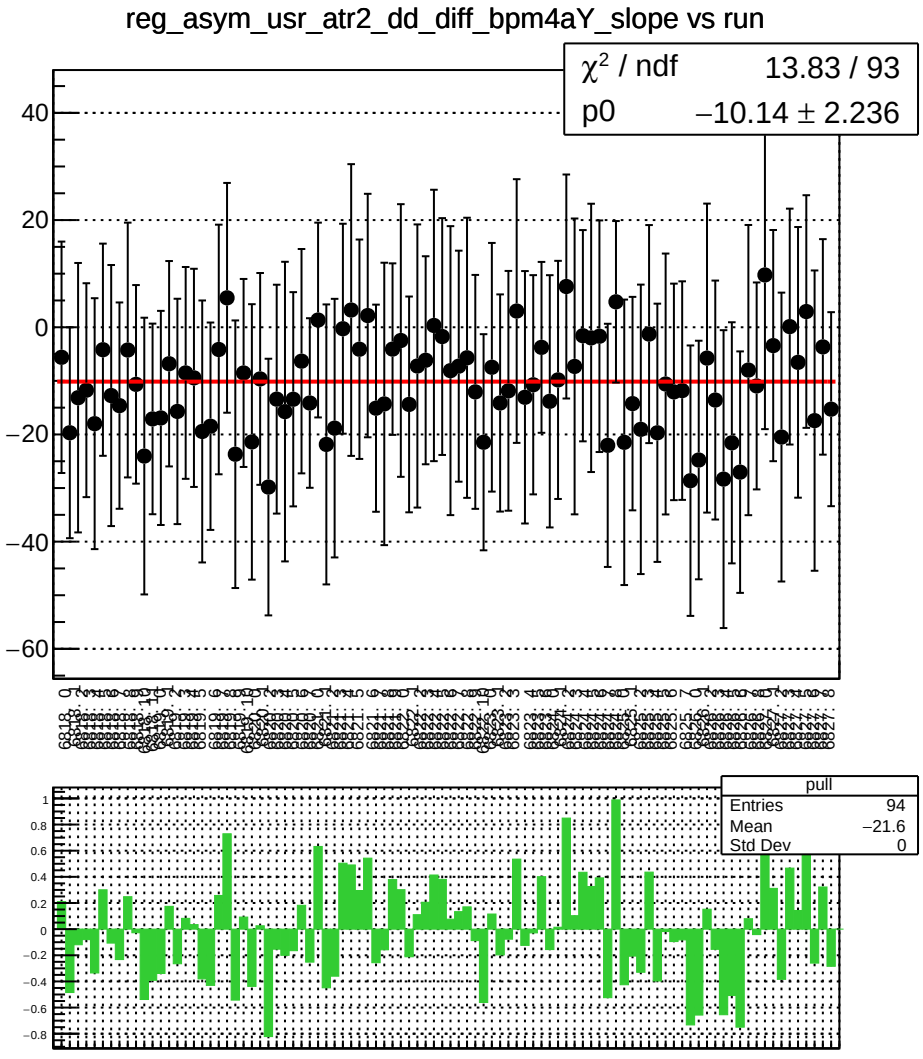

pull1D
Entries 94
Mean 0.01402
Std Dev 0.3631

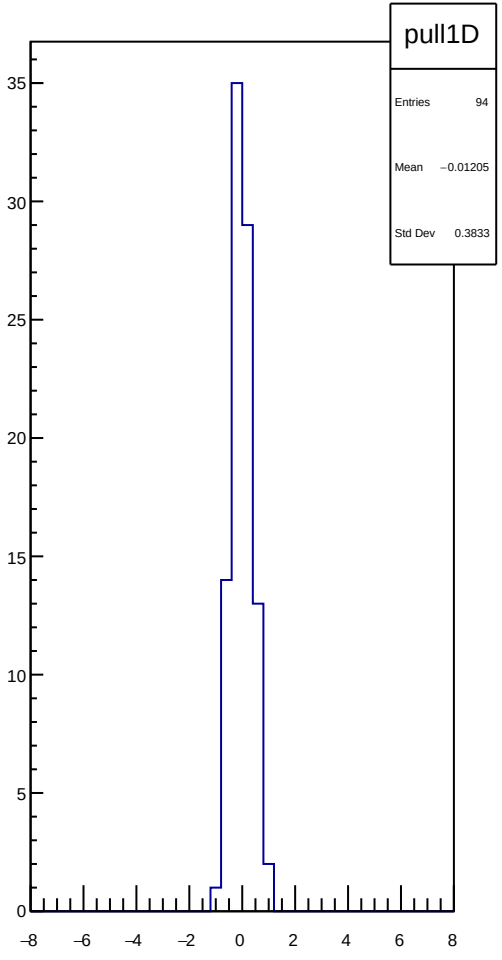

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.5 / 93
p0 360.6 ± 4.349
460
440
420
400
380
360
340
320
300
280
pull
Entries 94
Mean 800
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.001763
Std Dev 0.4555
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

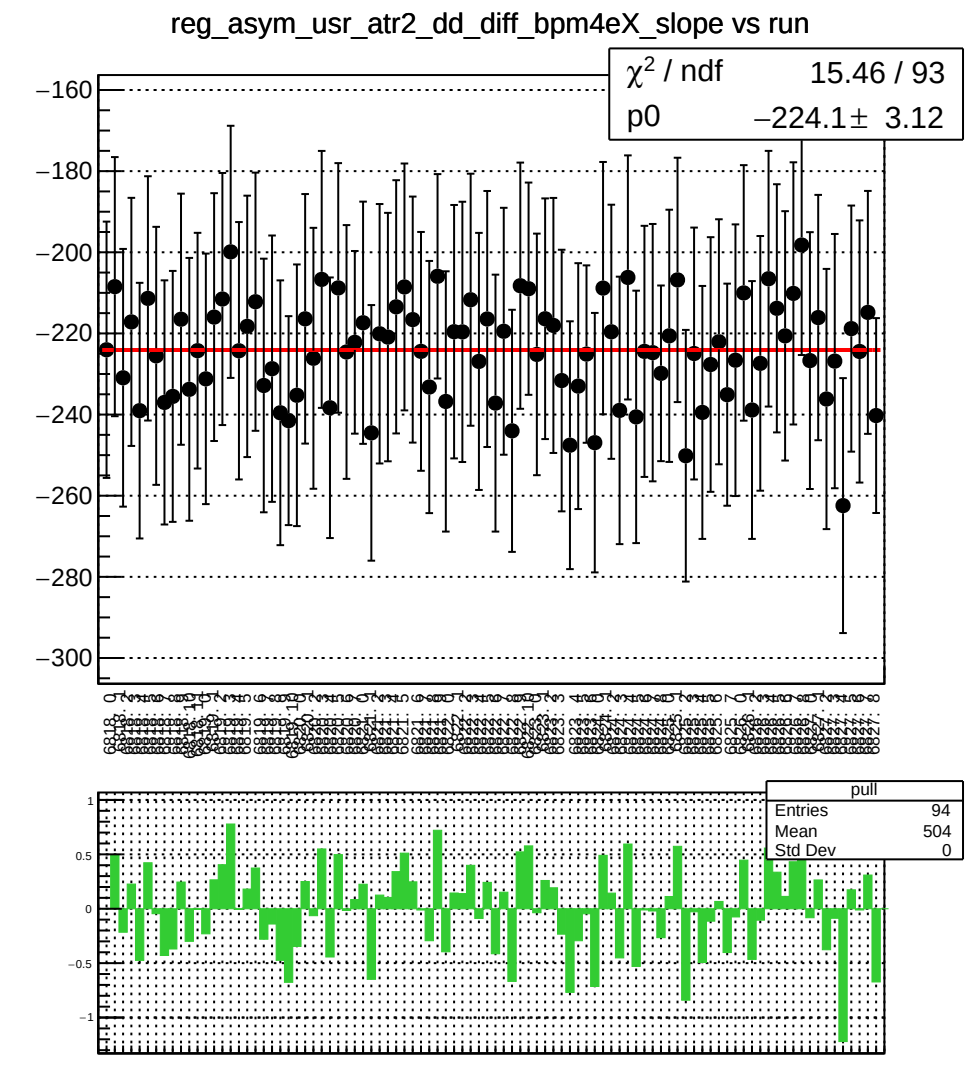

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.28 / 93
p0 42.87 ± 3.606
pull
Entries 94
Mean 111.2
Std Dev 48.71
pull1D
Entries 94
Mean −0.01
Std Dev 0.3613

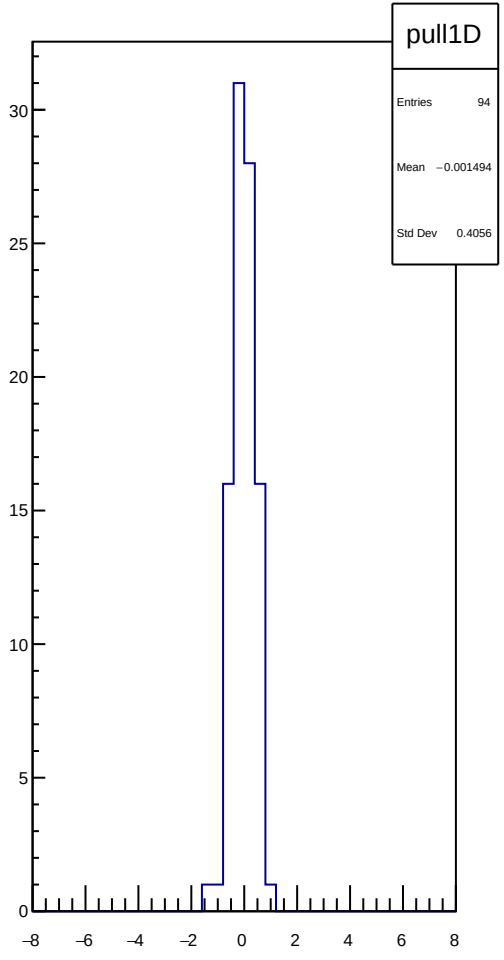

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 11.32 / 93
p0 −142.5 ± 0.1764
pull
Entries 94
Mean −1339
Std Dev 0
pull1D
Entries 94
Mean 0.0004454
Std Dev 0.3471

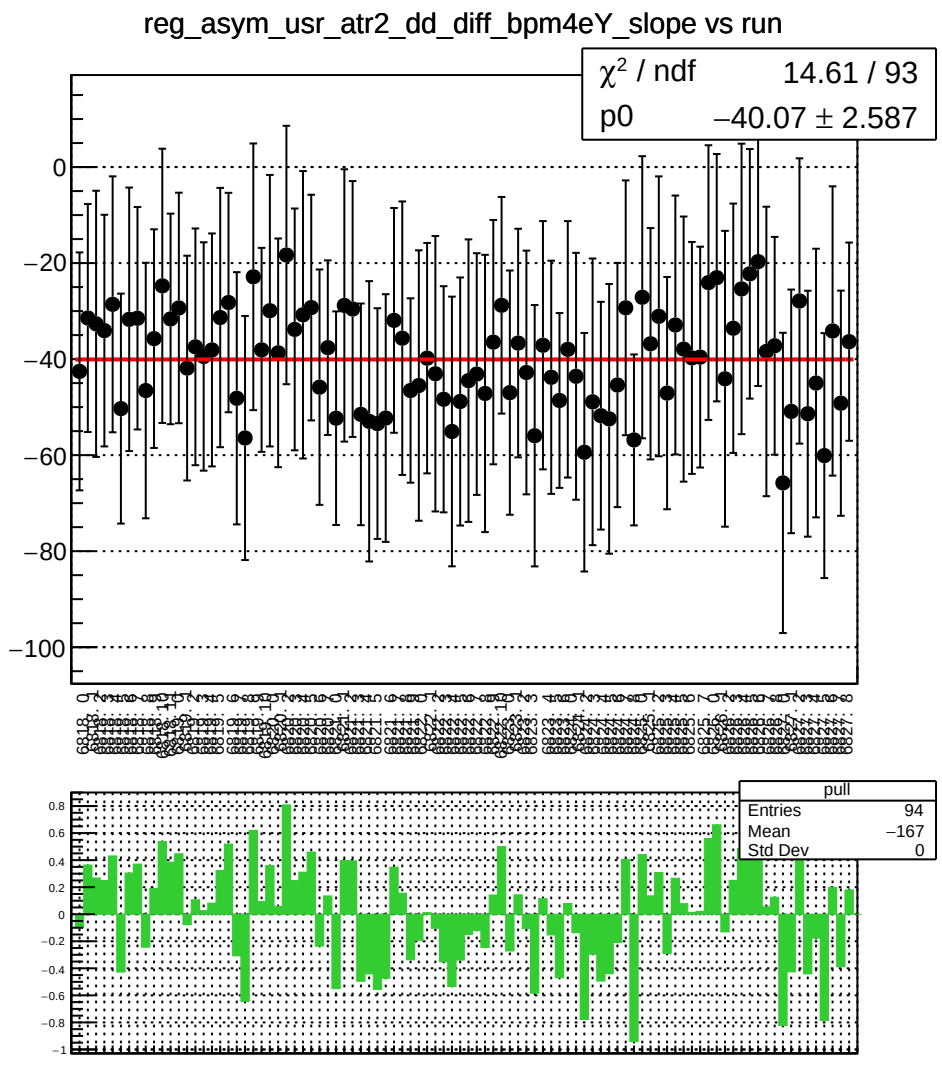

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 16.41 / 93
p0 217.4 ± 3.34
pull
Entries 94
Mean 825.6
Std Dev 0
pull1D
Entries 94
Mean 0.001225
Std Dev 0.4179

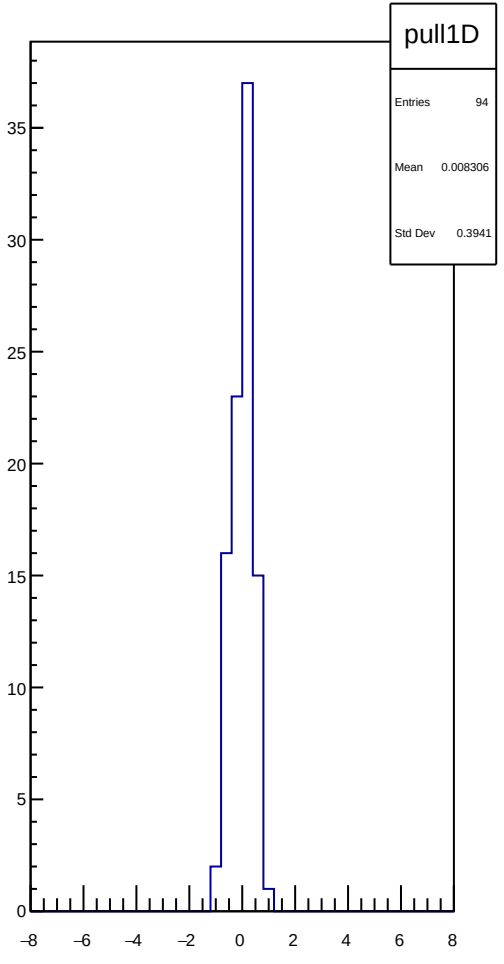

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.83 / 93
p0 −10.14 ± 2.236
pull
Entries 94
Mean −21.6
Std Dev 0

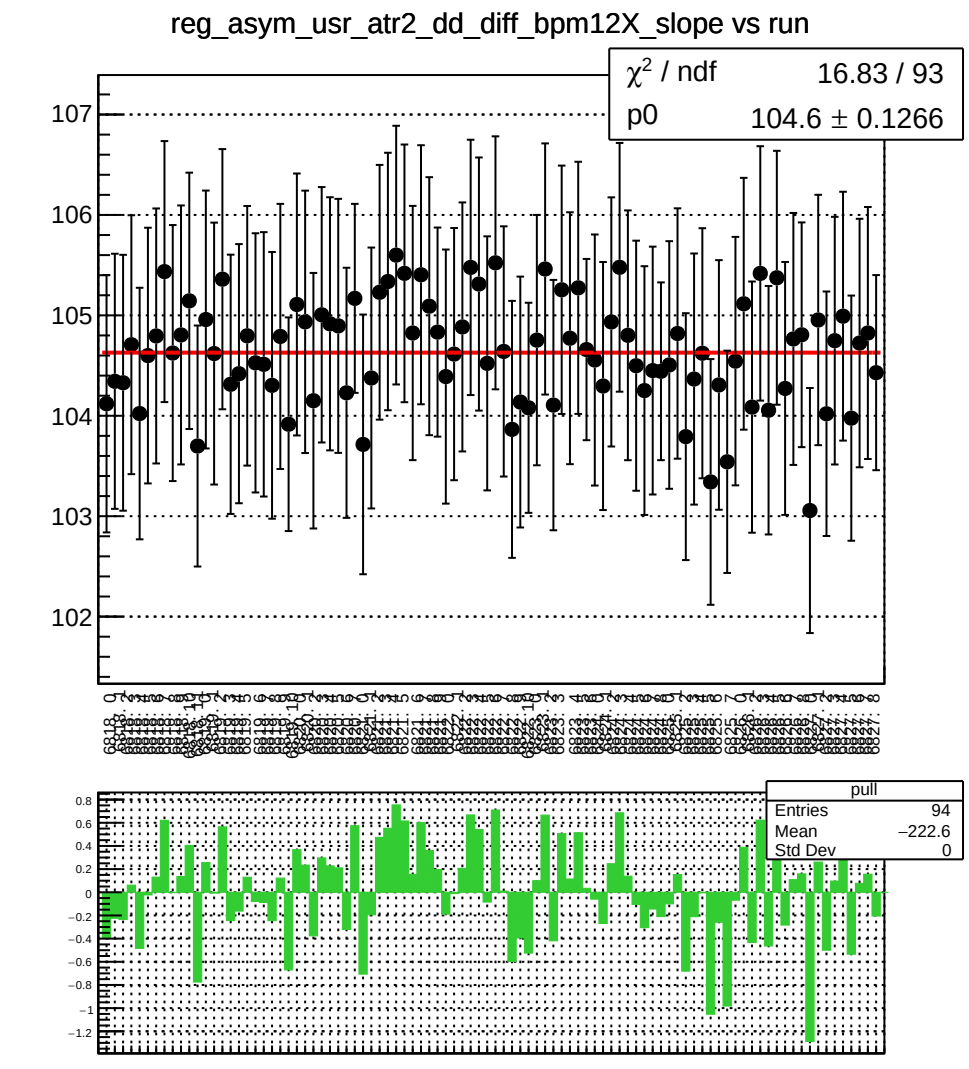

pull1D
Entries 94
Mean −0.01205
Std Dev 0.3833

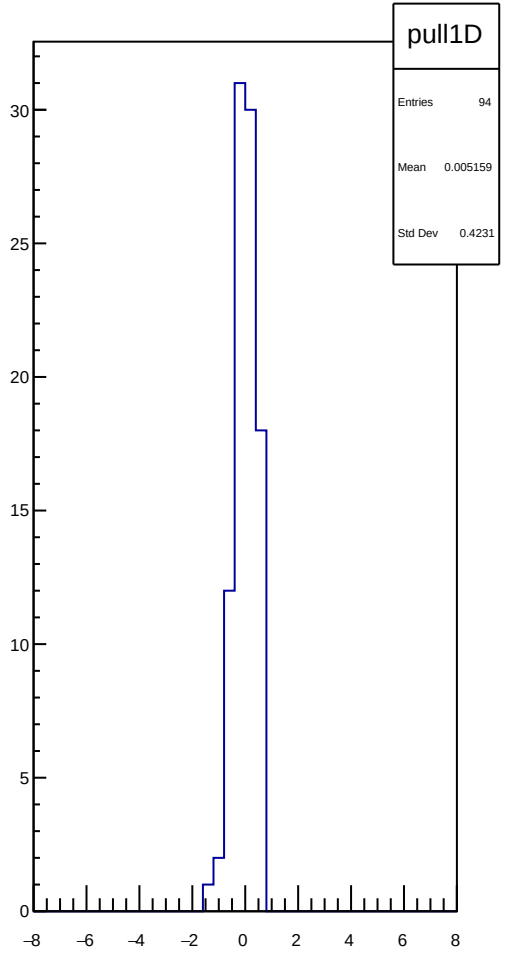

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.46 / 93
p0 −224.1± 3.12
−160
−180
−200
−220
−240
−260
−280
−300
pull
Entries 94
Mean 504
Std Dev 0
1
0.5
0
−0.5
−1

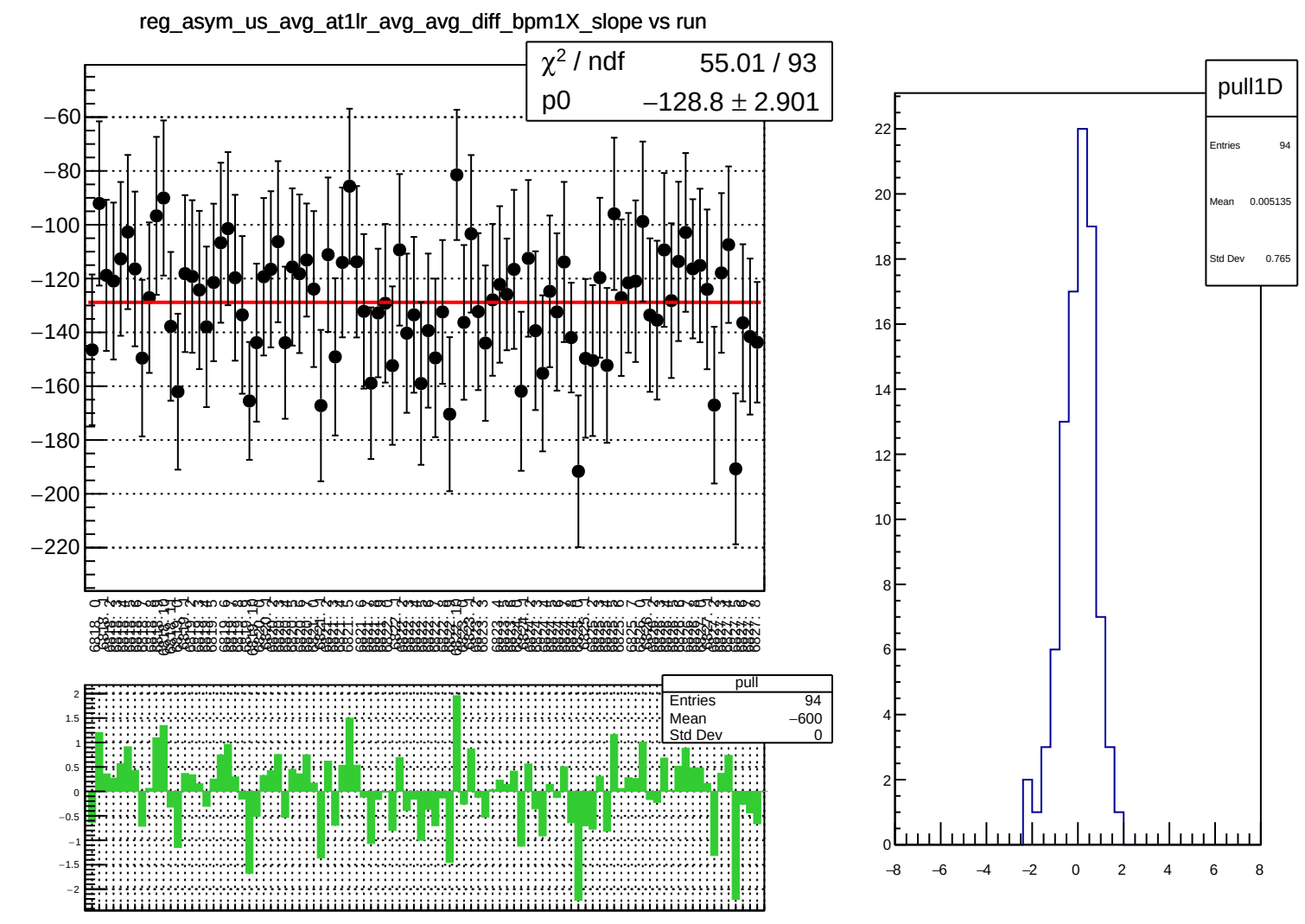

pull1D
Entries 94
Mean −0.001494
Std Dev 0.4056
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

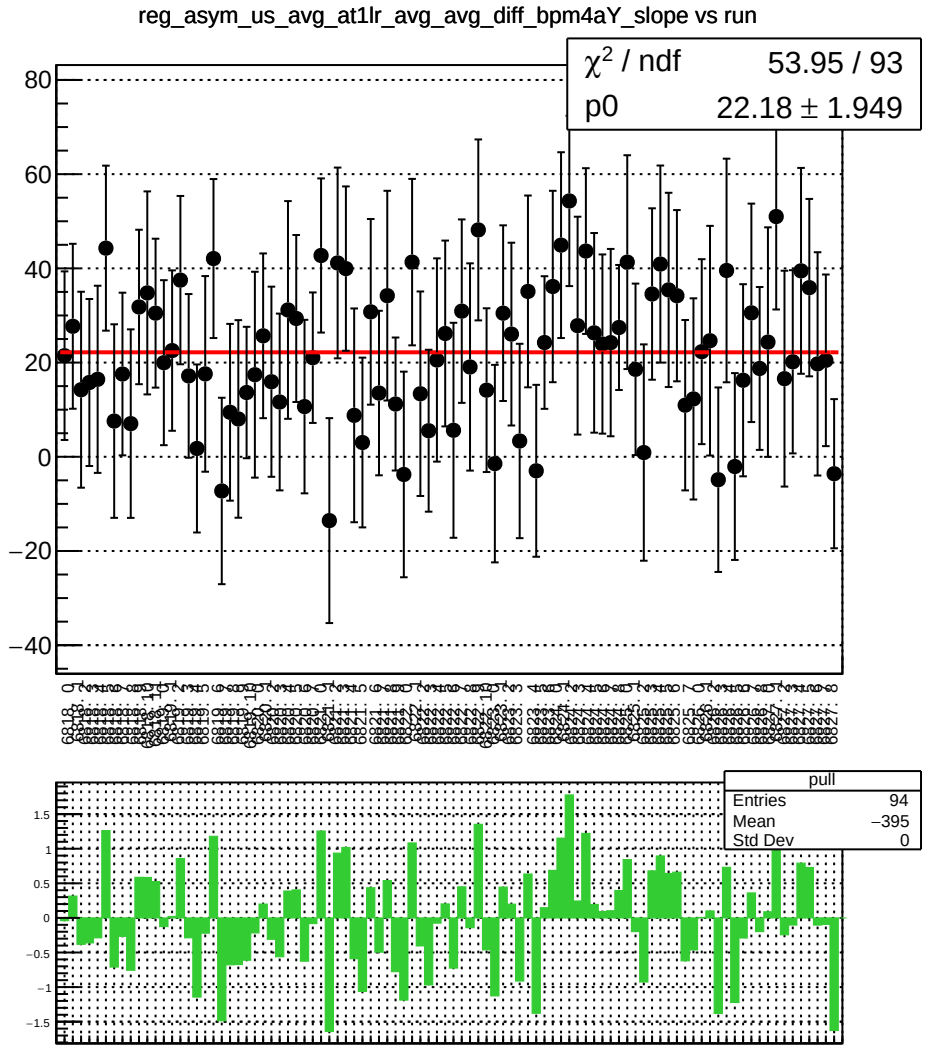

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.61 / 93
p0 −40.07 ± 2.587
0
−20
−40
−60
−80
−100
pull
Entries 94
Mean −167
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

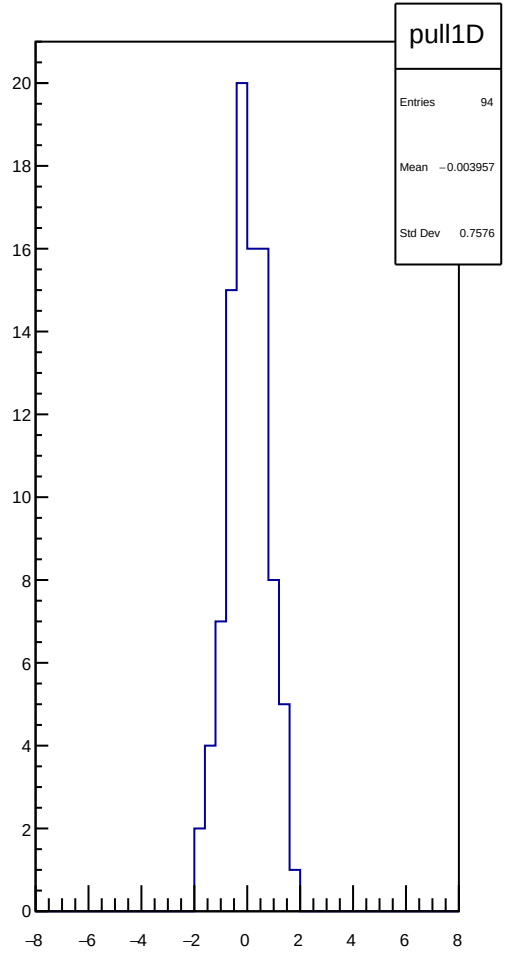

pull1D
Entries 94
Mean 0.008306
Std Dev 0.3941
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

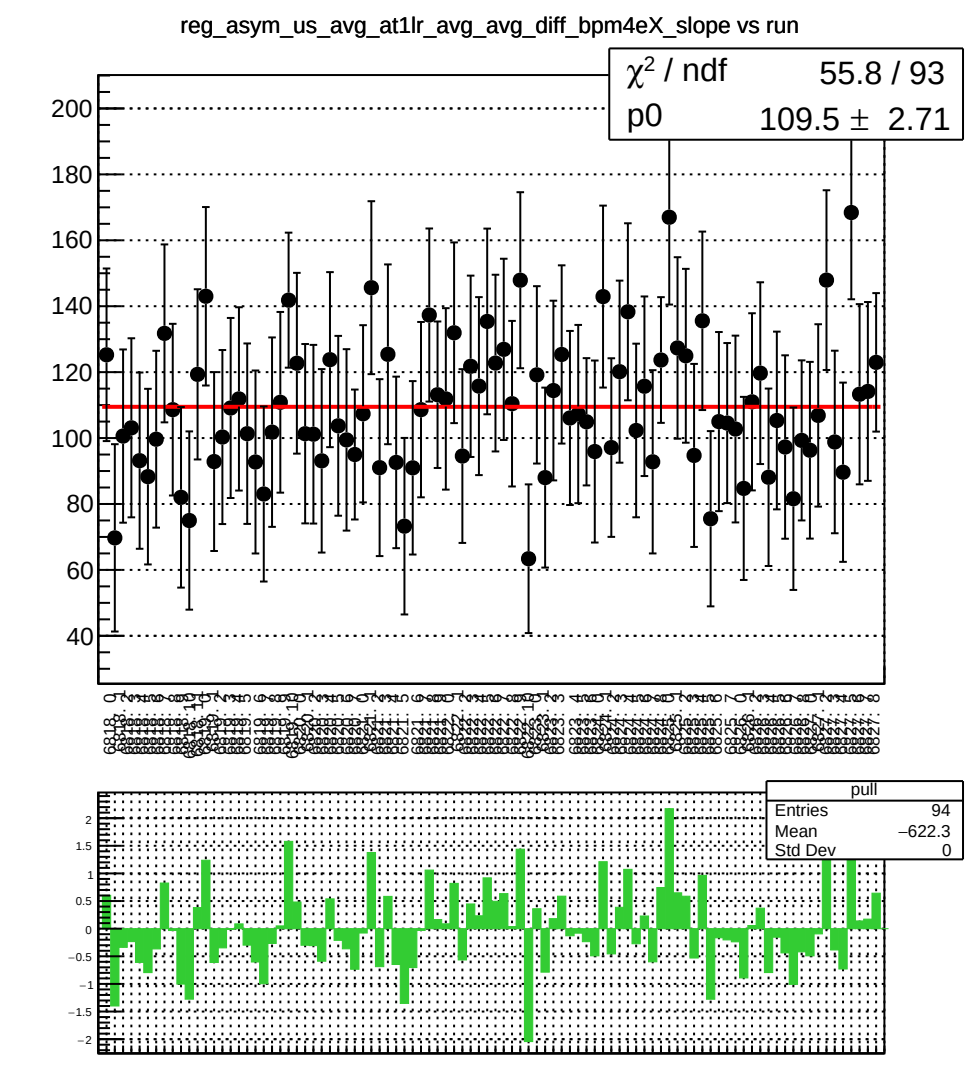

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 16.83 / 93
p0 104.6 ± 0.1266
107
106
105
104
103
102
pull
Entries 94
Mean −222.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

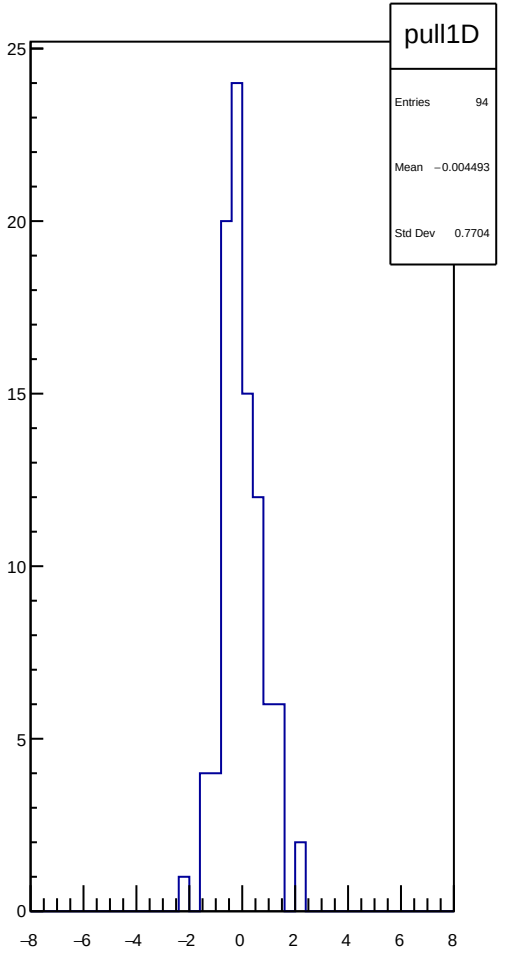

pull1D
Entries 94
Mean 0.005159
Std Dev 0.4231
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

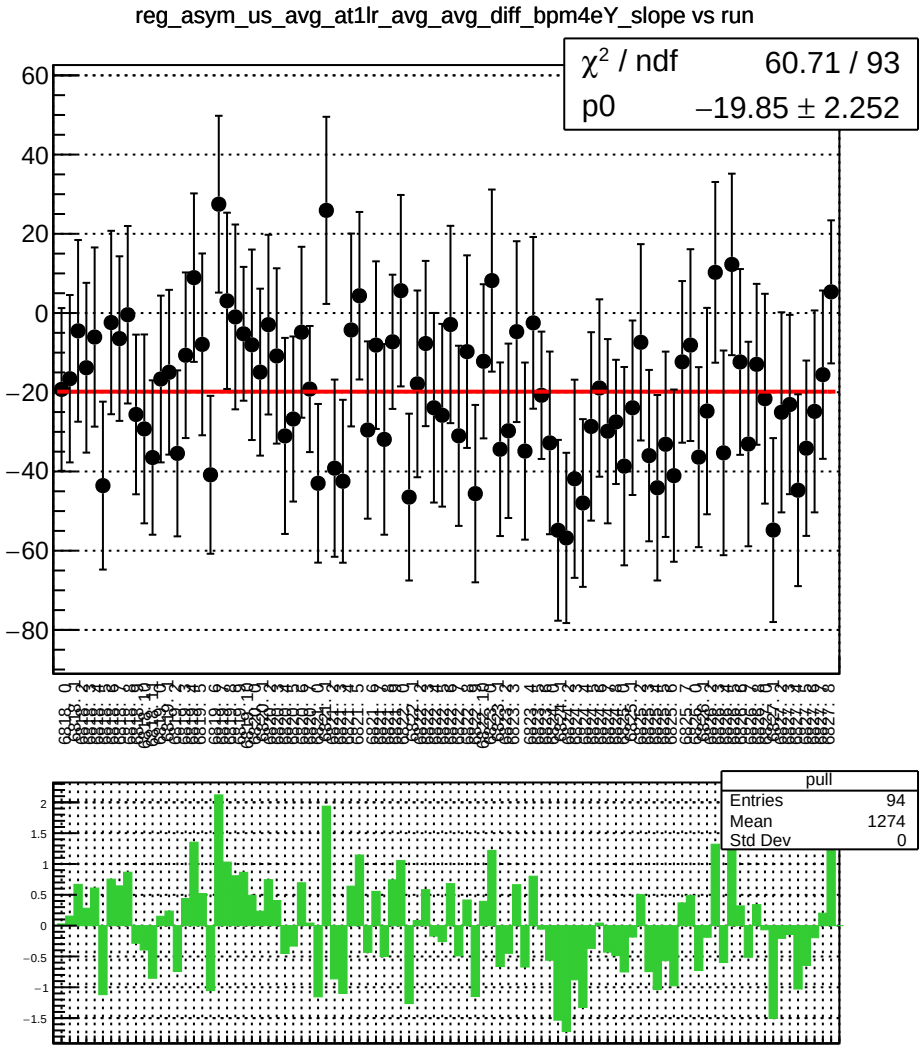

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 55.01 / 93
p0 −128.8 ± 2.901
pull
Entries 94
Mean −600
Std Dev 0
pull1D
Entries 94
Mean 0.005135
Std Dev 0.765

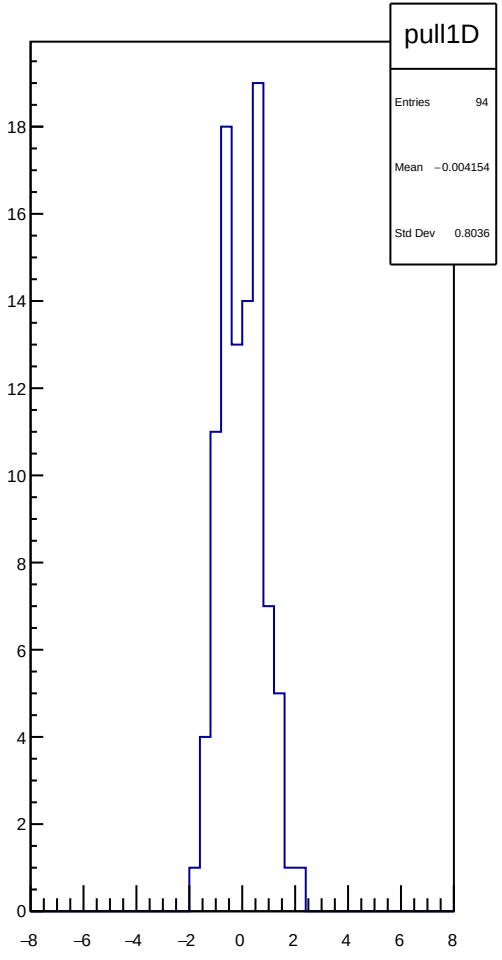

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.95 / 93
p0 22.18 ± 1.949
pull
Entries 94
Mean −395
Std Dev 0

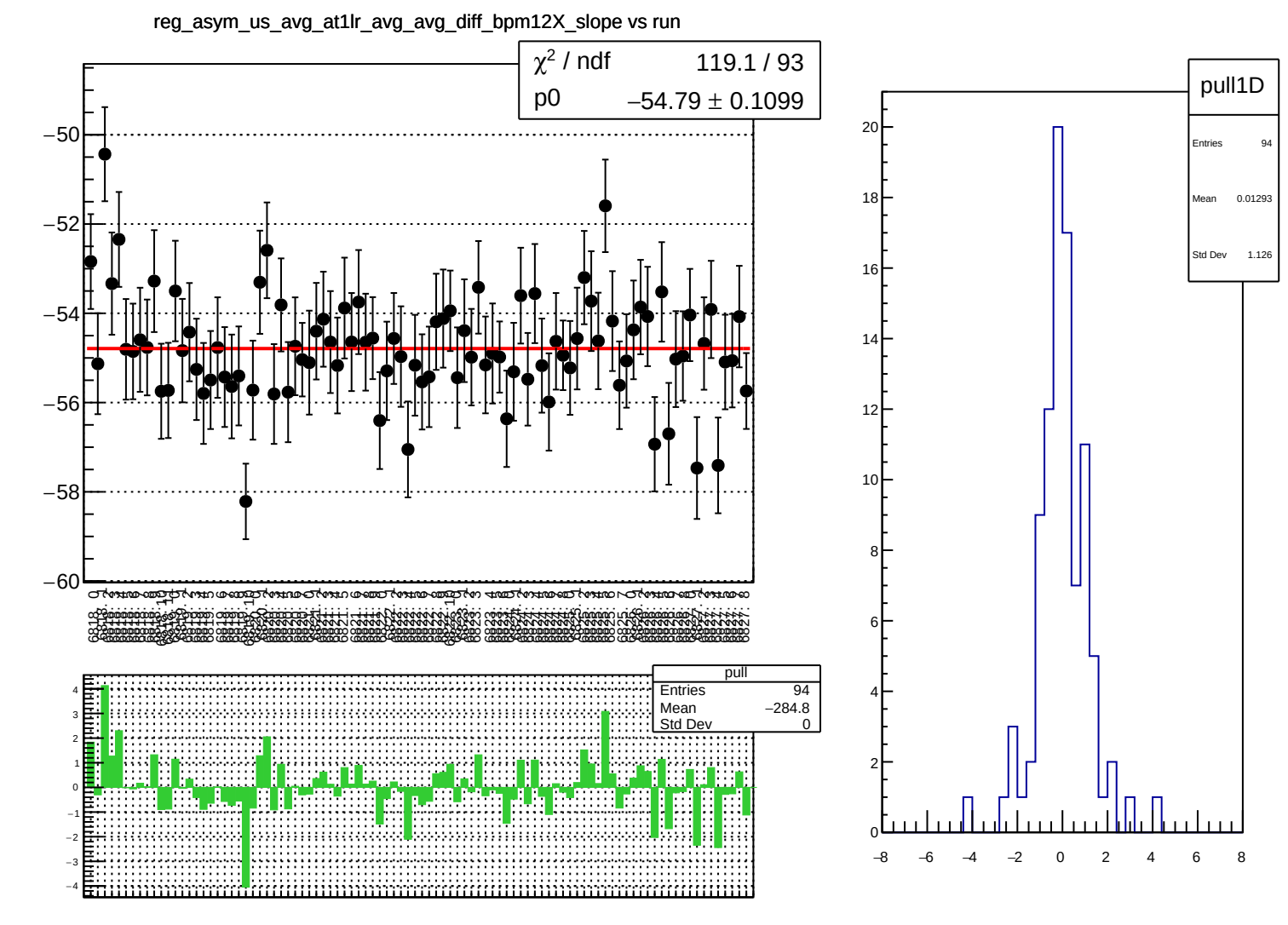

pull1D
Entries 94
Mean −0.003957
Std Dev 0.7576

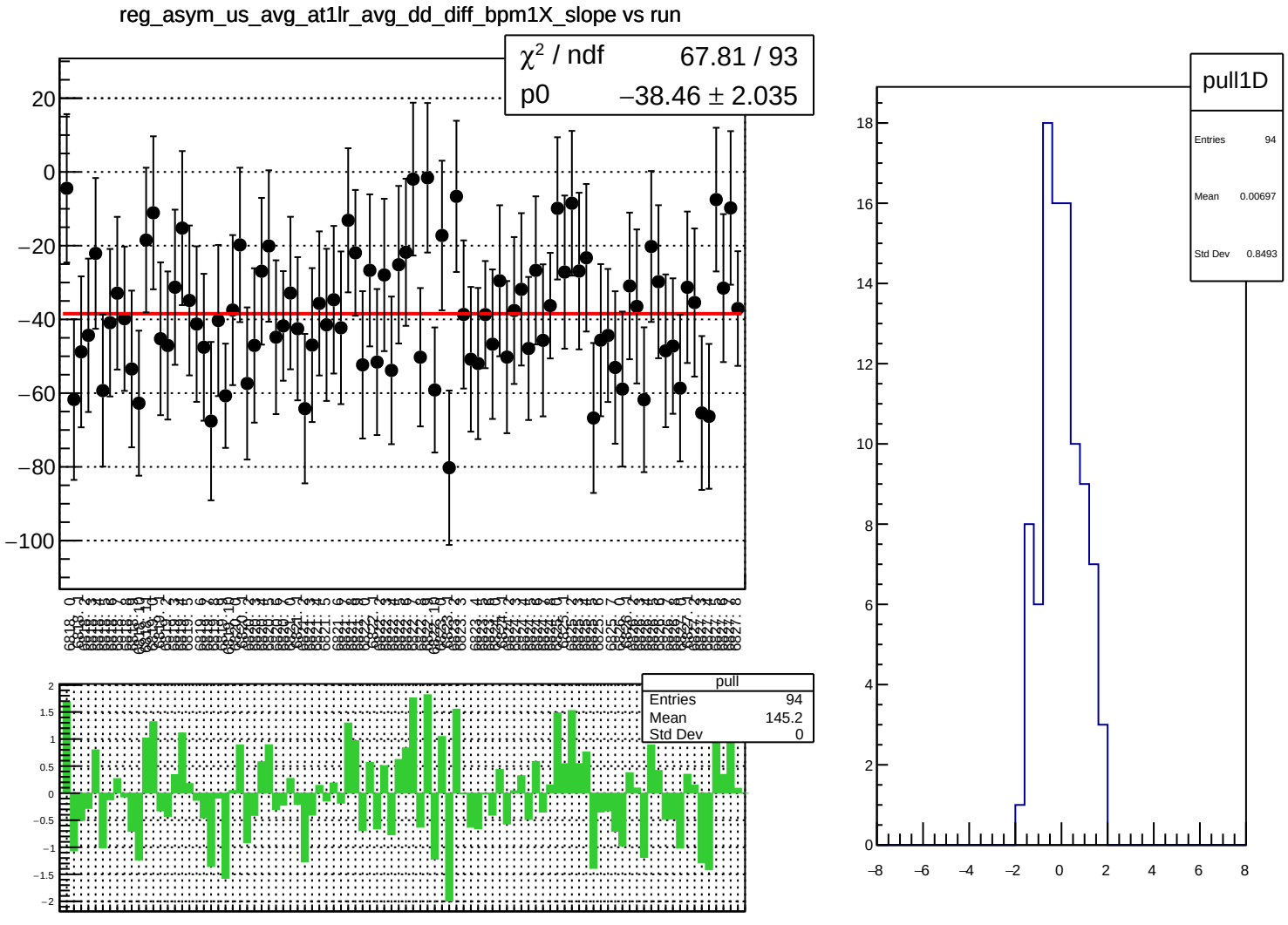

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.8 / 93
p0 109.5 ± 2.71
pull
Entries 94
Mean −622.3
Std Dev 0

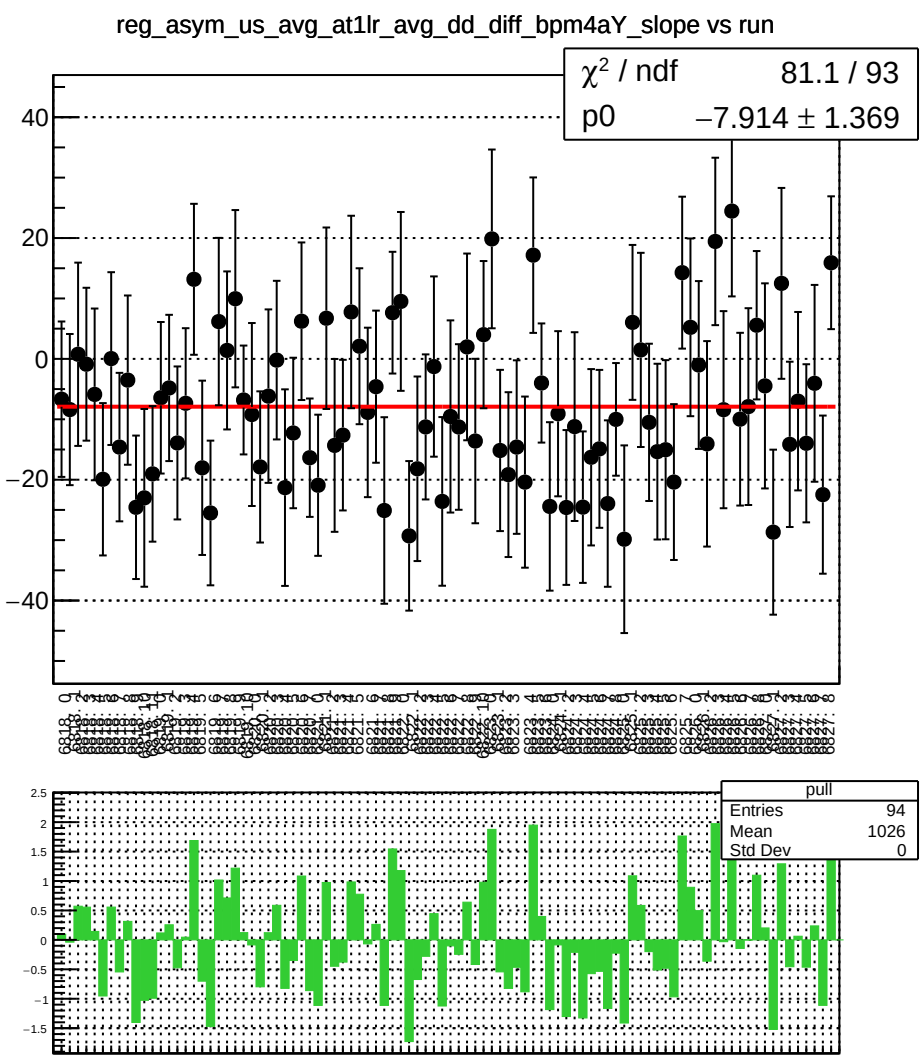

pull1D
Entries 94
Mean −0.004493
Std Dev 0.7704

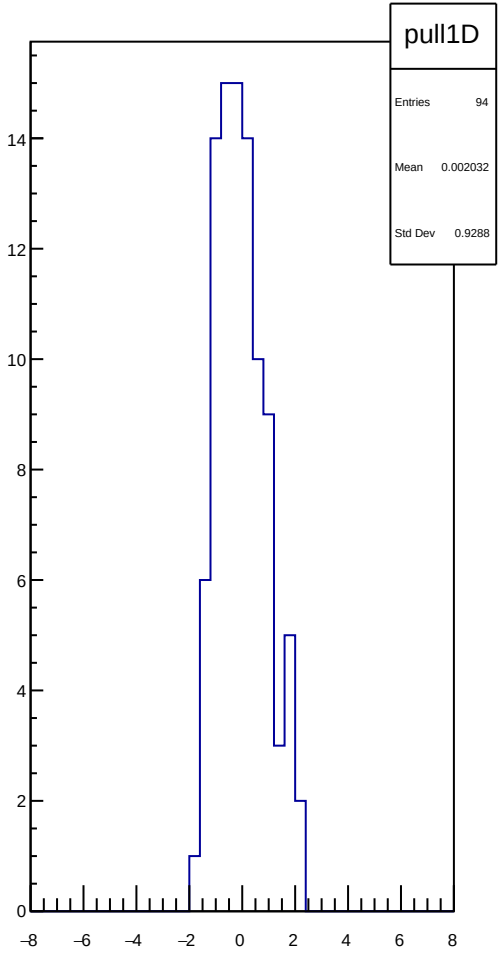

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.71 / 93
p0 −19.85 ± 2.252
pull
Entries 94
Mean 1274
Std Dev 0

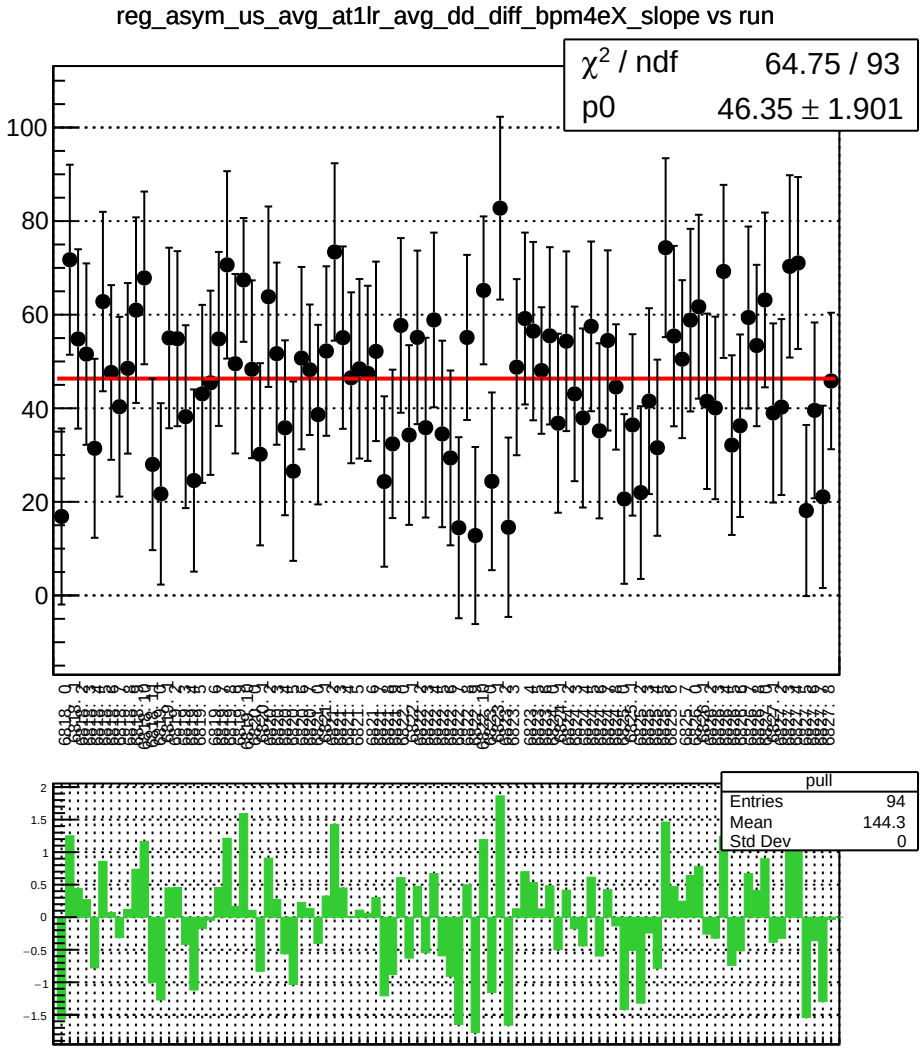

pull1D
Entries 94
Mean −0.004154
Std Dev 0.8036

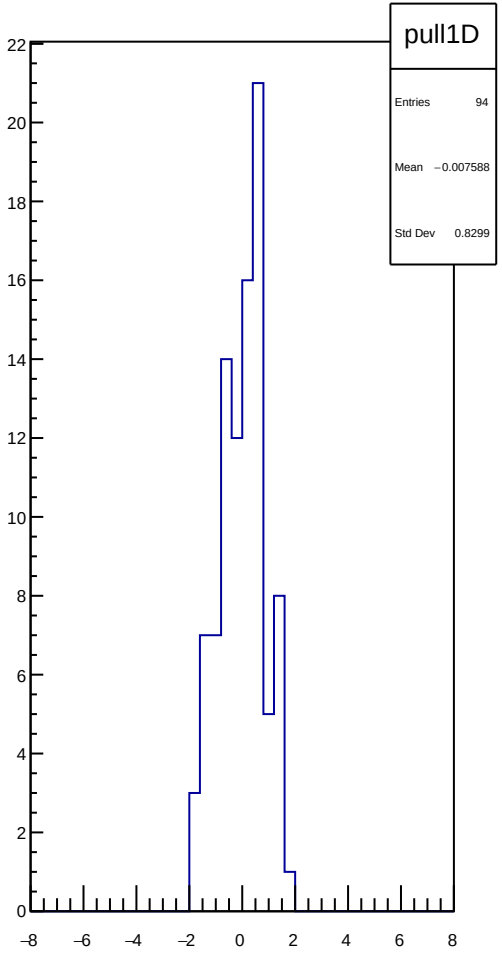

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 119.1 / 93
p0 −54.79 ± 0.1099
pull
Entries 94
Mean −284.8
Std Dev 0
pull1D
Entries 94
Mean 0.01293
Std Dev 1.126

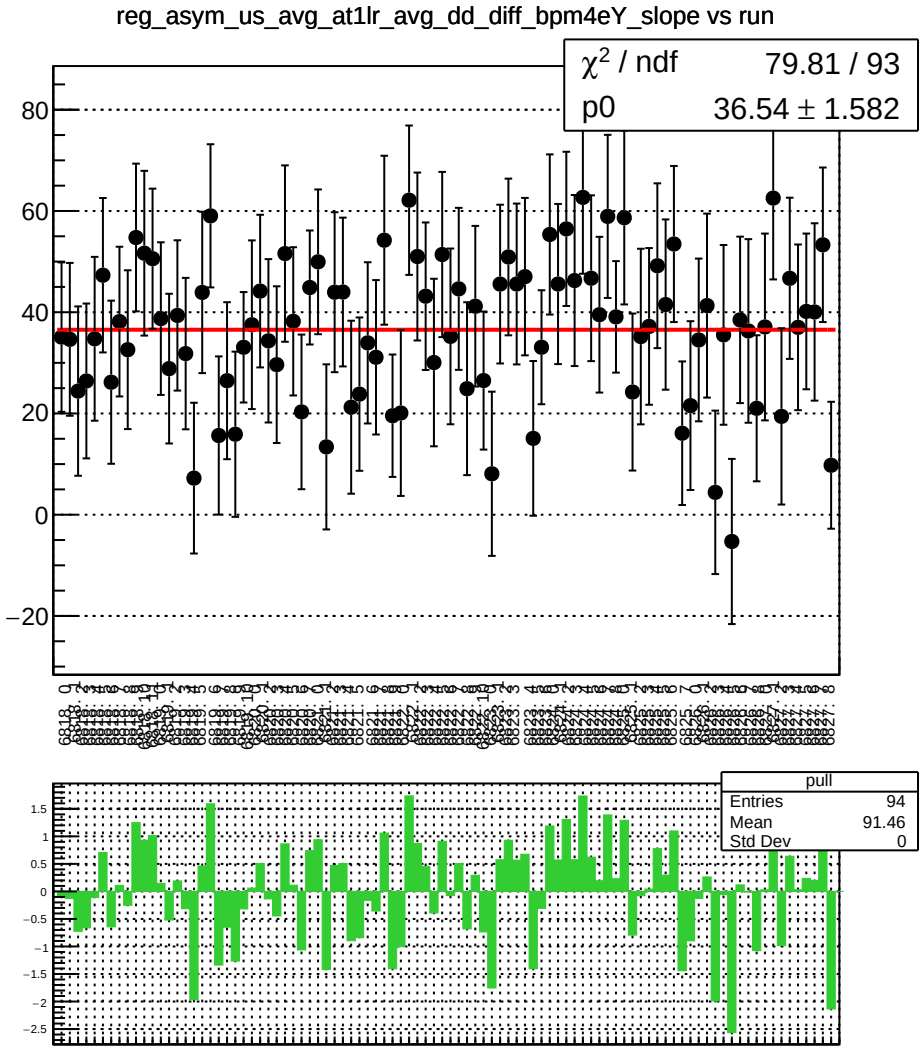

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 67.81 / 93
p0 −38.46 ± 2.035
pull
Entries 94
Mean 145.2
Std Dev 0
pull1D
Entries 94
Mean 0.00697
Std Dev 0.8493

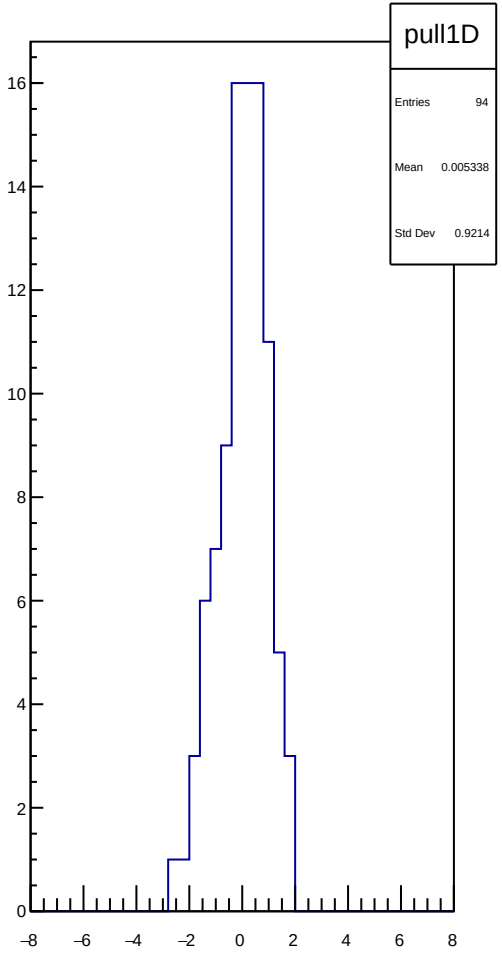

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.1 / 93
p0 −7.914 ± 1.369
40
20
0
−20
−40
pull
Entries 94
Mean 1026
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

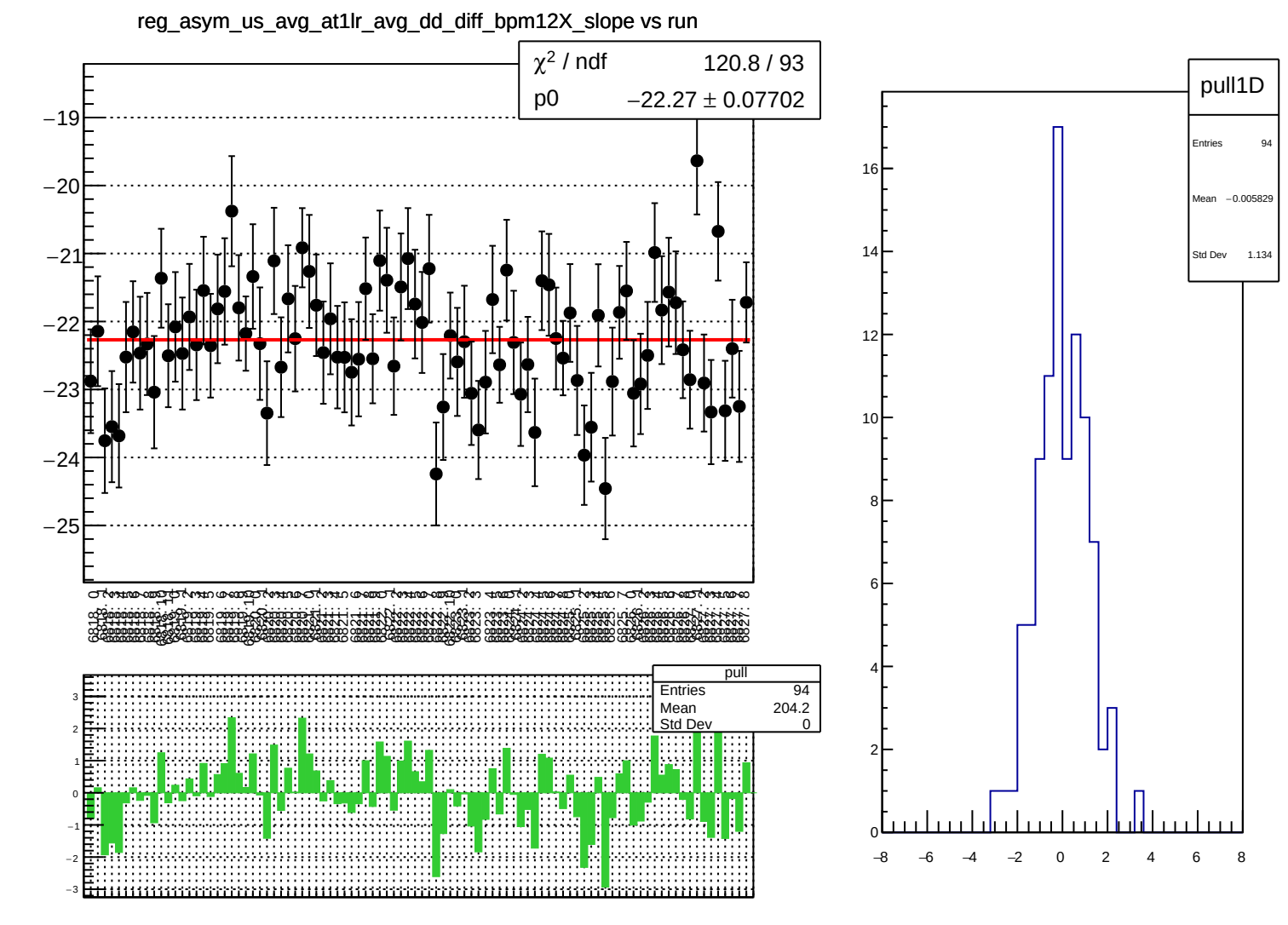

pull1D
Entries 94
Mean 0.002032
Std Dev 0.9288
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

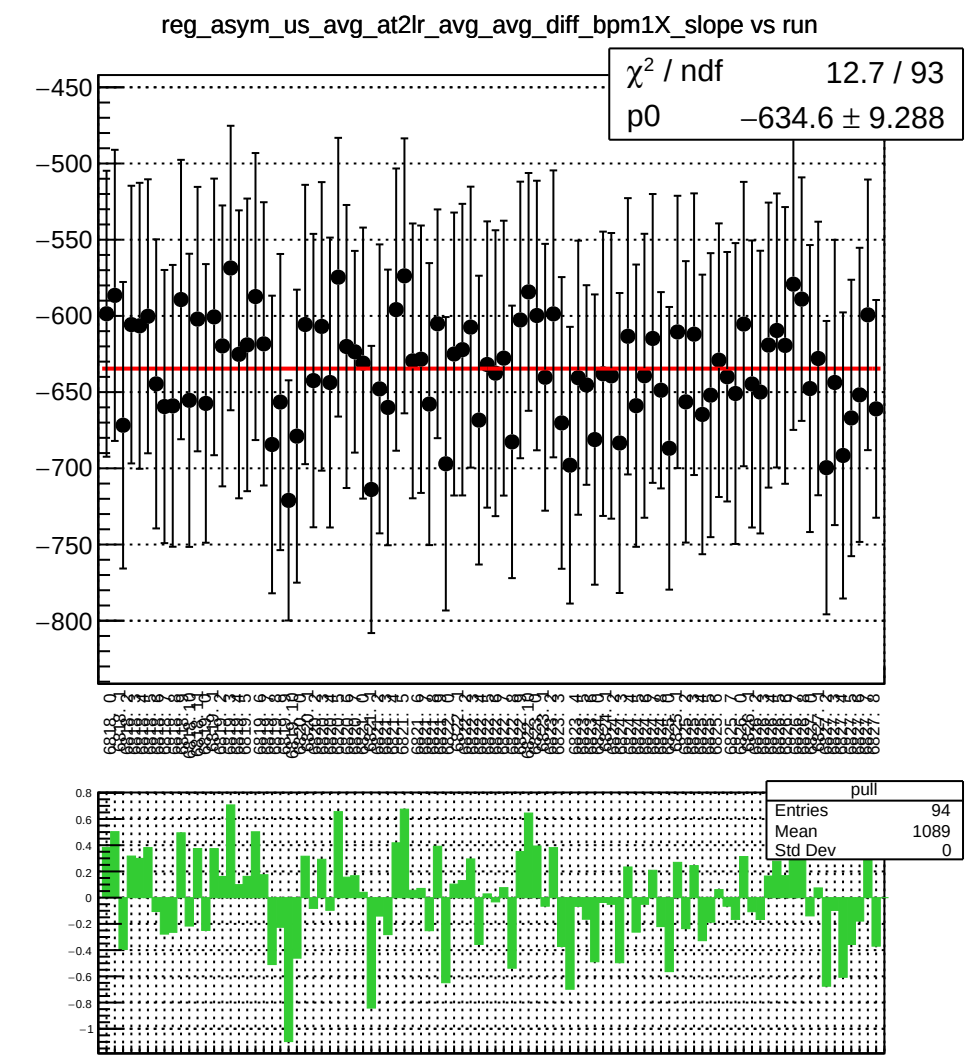

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.75 / 93
p0 46.35 ± 1.901
pull
Entries 94
Mean 144.3
Std Dev 0

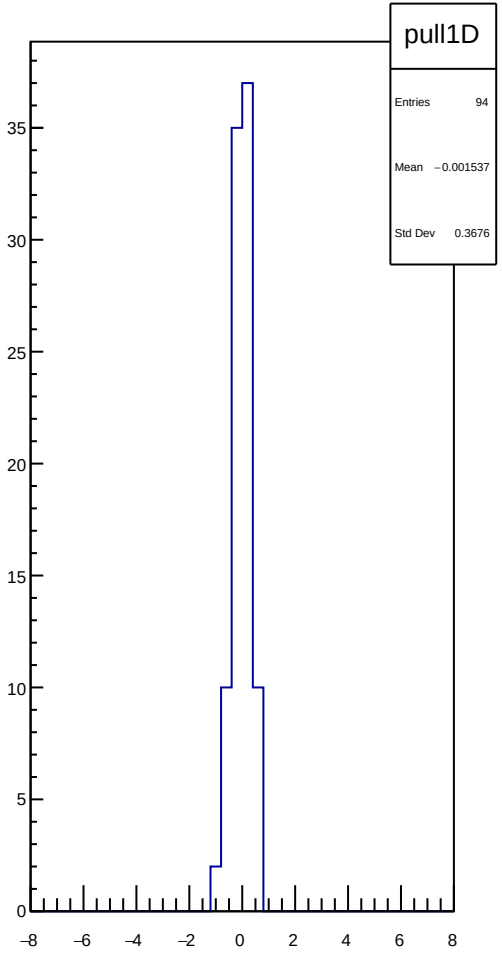

pull1D
Entries 94
Mean −0.007588
Std Dev 0.8299

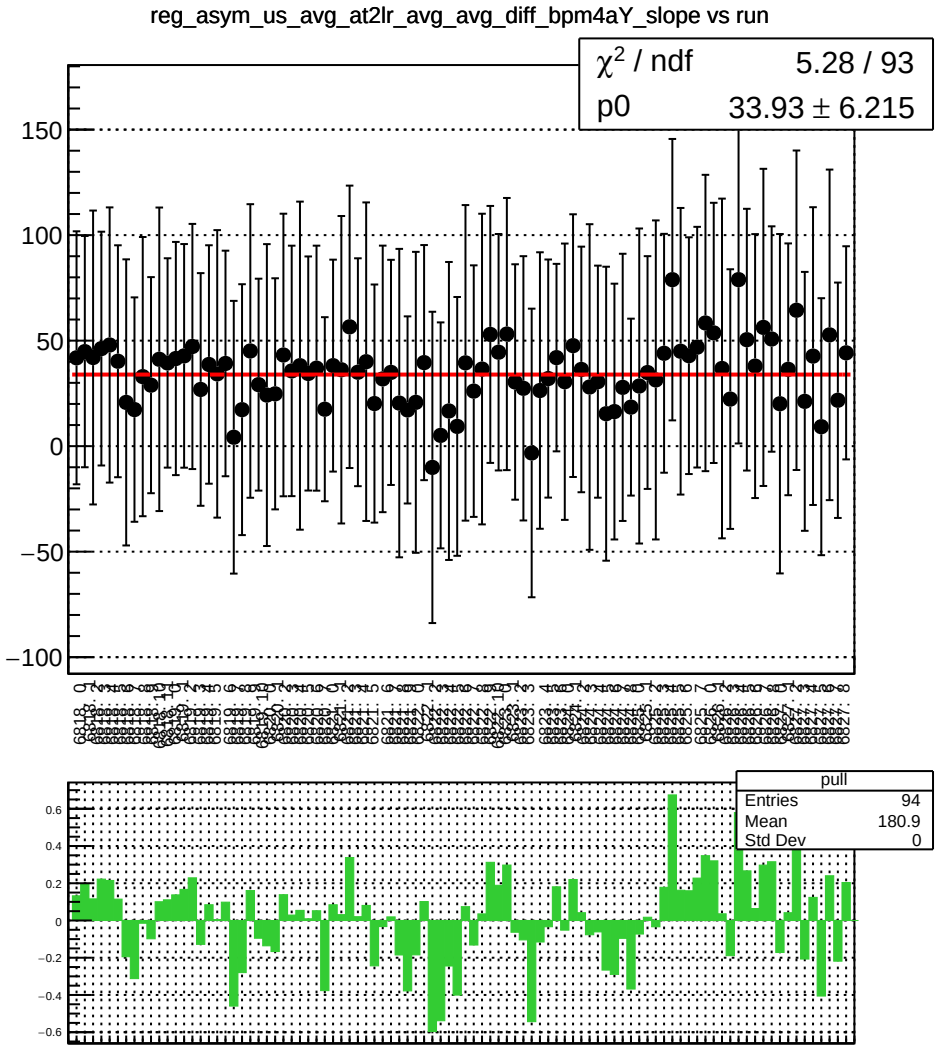

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.81 / 93
p0 36.54 ± 1.582
pull
Entries 94
Mean 91.46
Std Dev 0

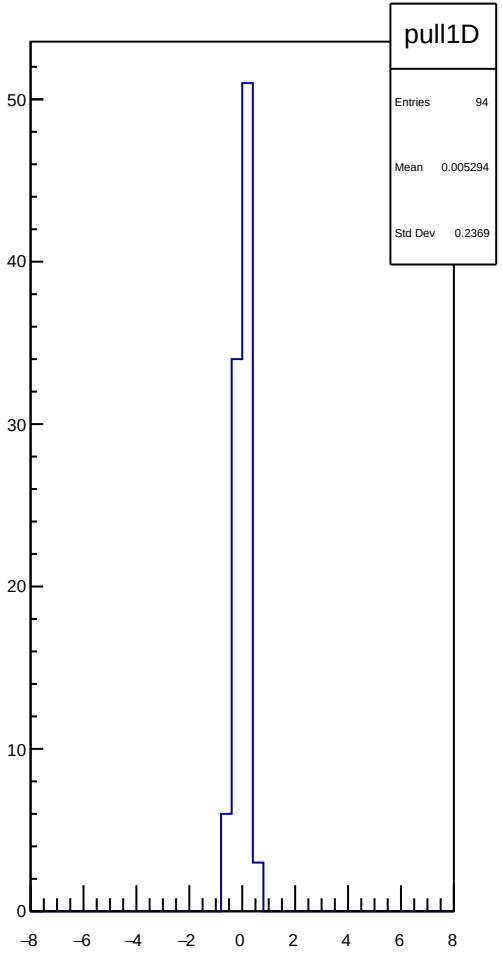

pull1D
Entries 94
Mean 0.005338
Std Dev 0.9214

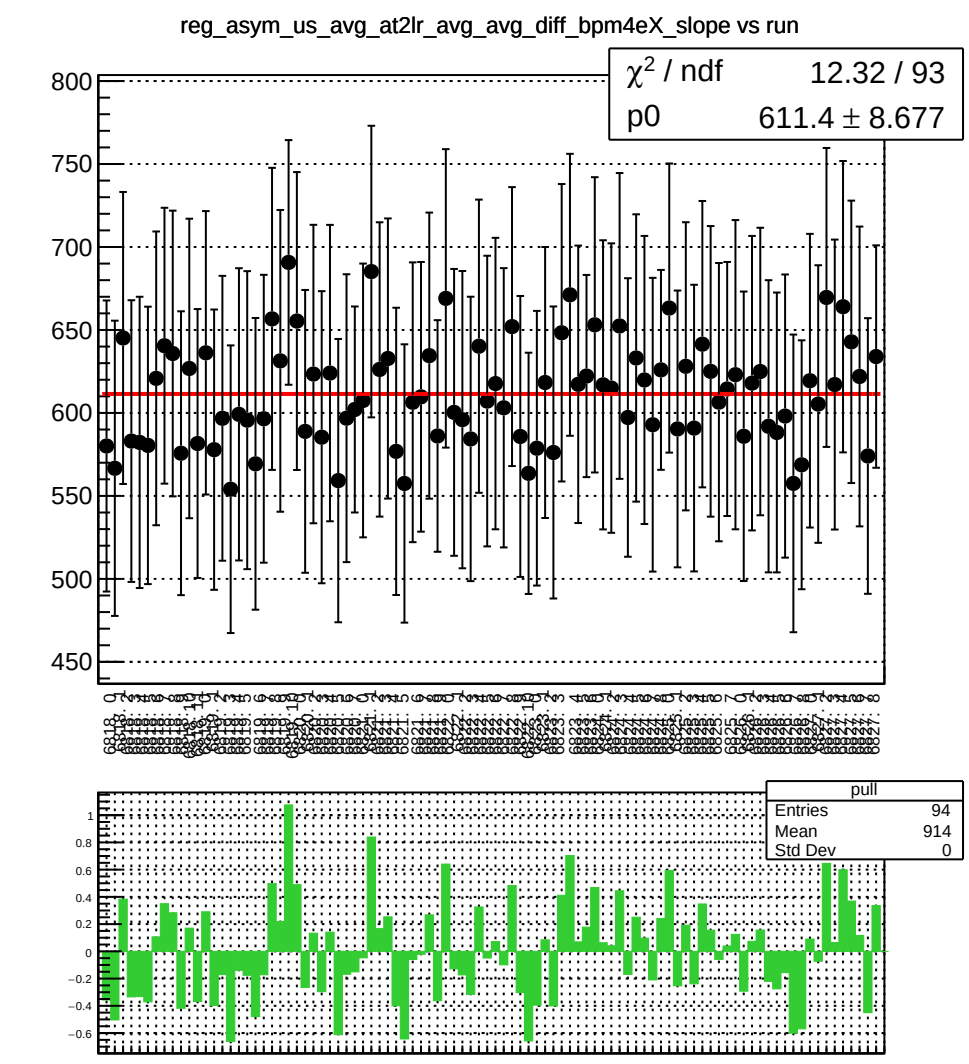

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 120.8 / 93
p0 −22.27 ± 0.07702
pull
Entries 94
Mean 204.2
Std Dev 0
pull1D
Entries 94
Mean −0.005829
Std Dev 1.134

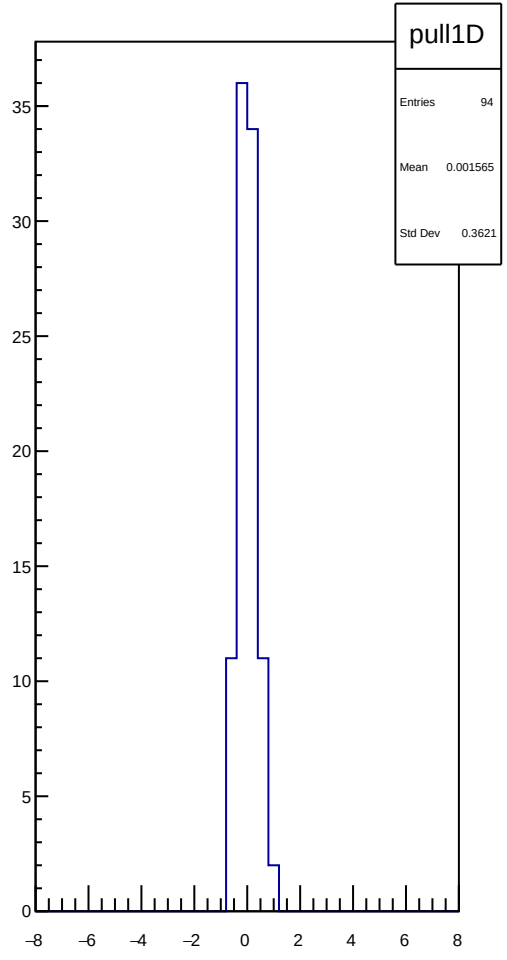

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 12.7 / 93
p0 −634.6 ± 9.288
pull
Entries 94
Mean 1089
Std Dev 0

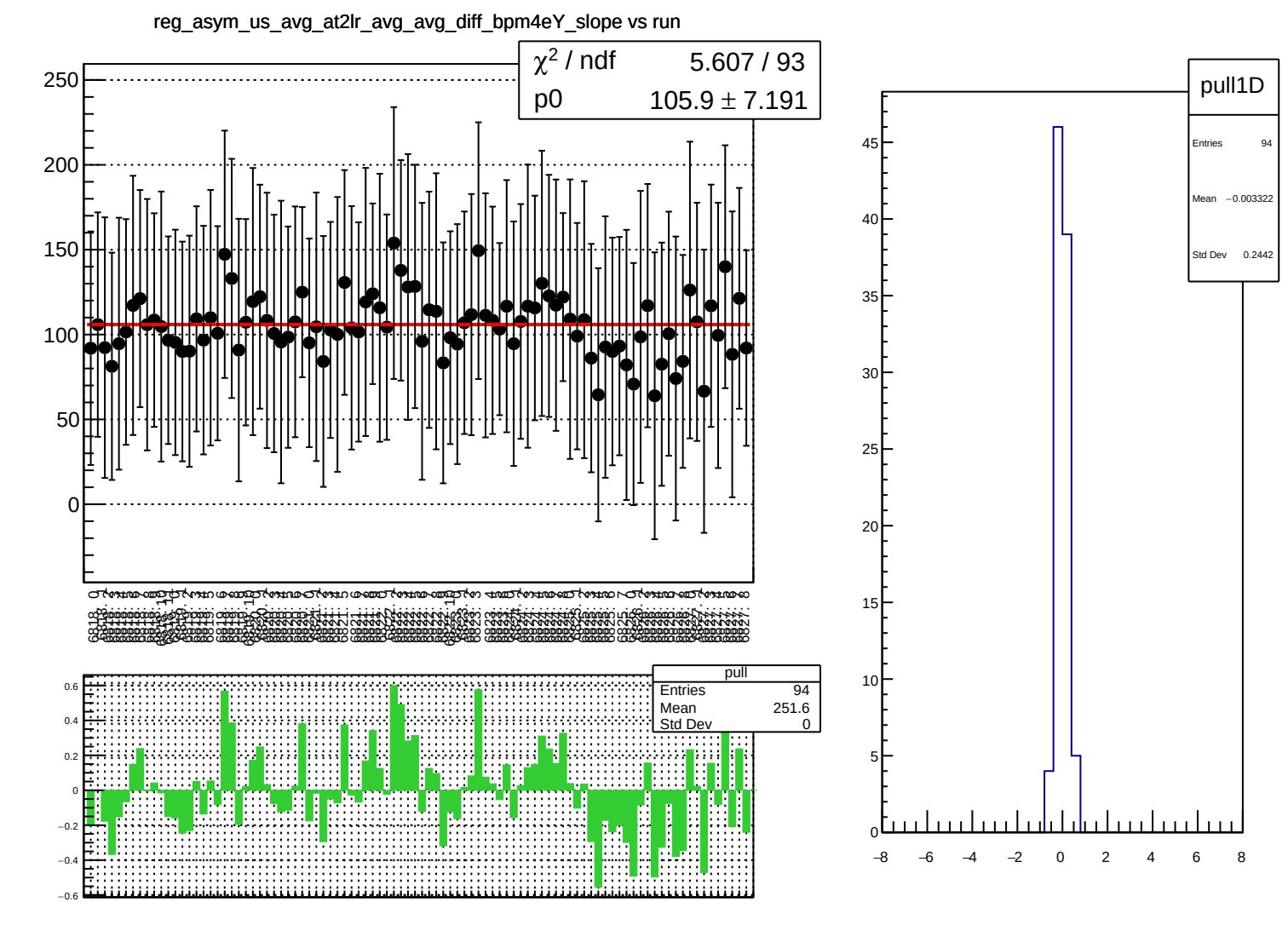

pull1D
Entries 94
Mean −0.001537
Std Dev 0.3676

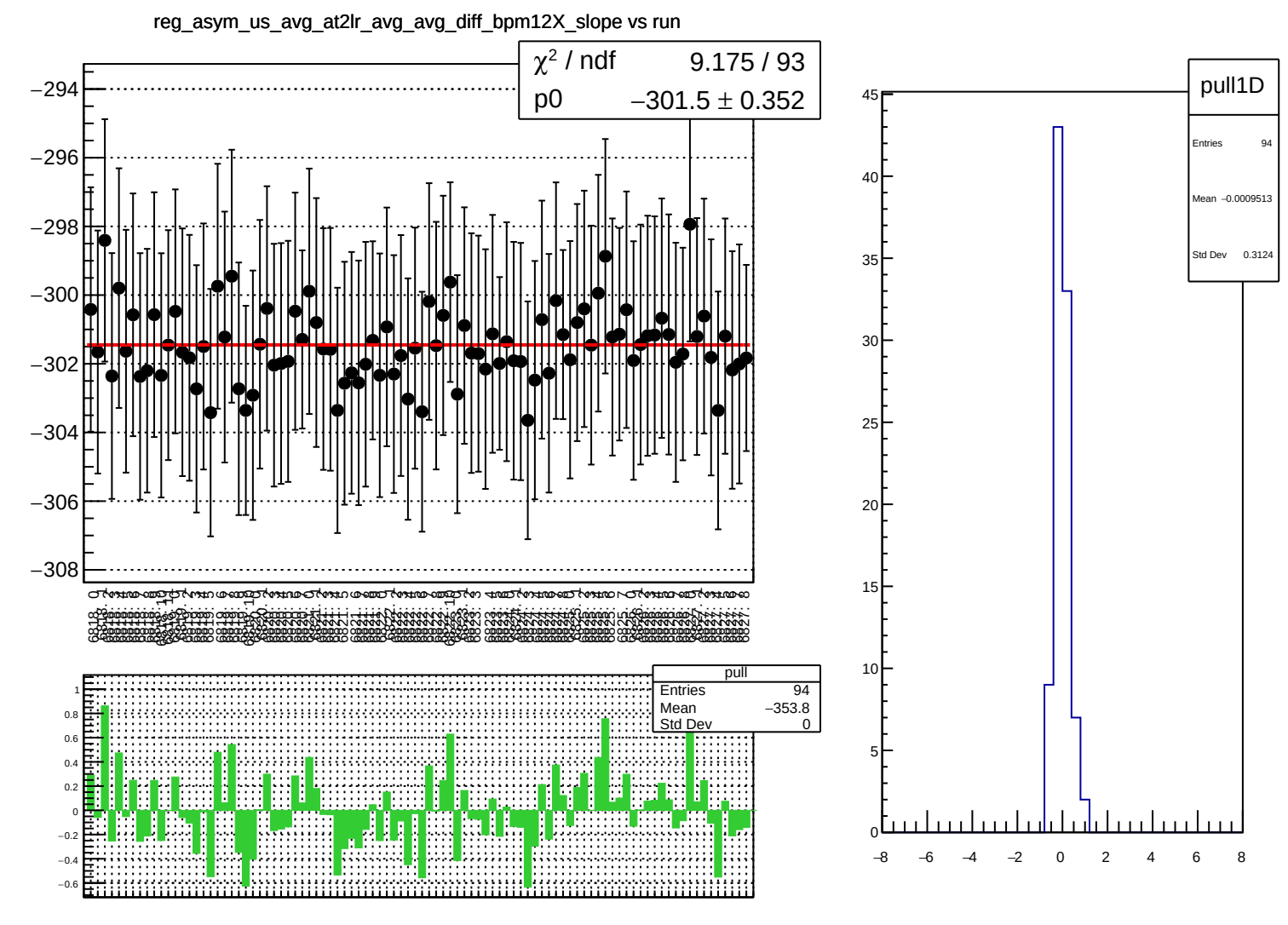

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.28 / 93
p0 33.93 ± 6.215
150
100
50
0
−50
−100
pull
Entries 94
Mean 180.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

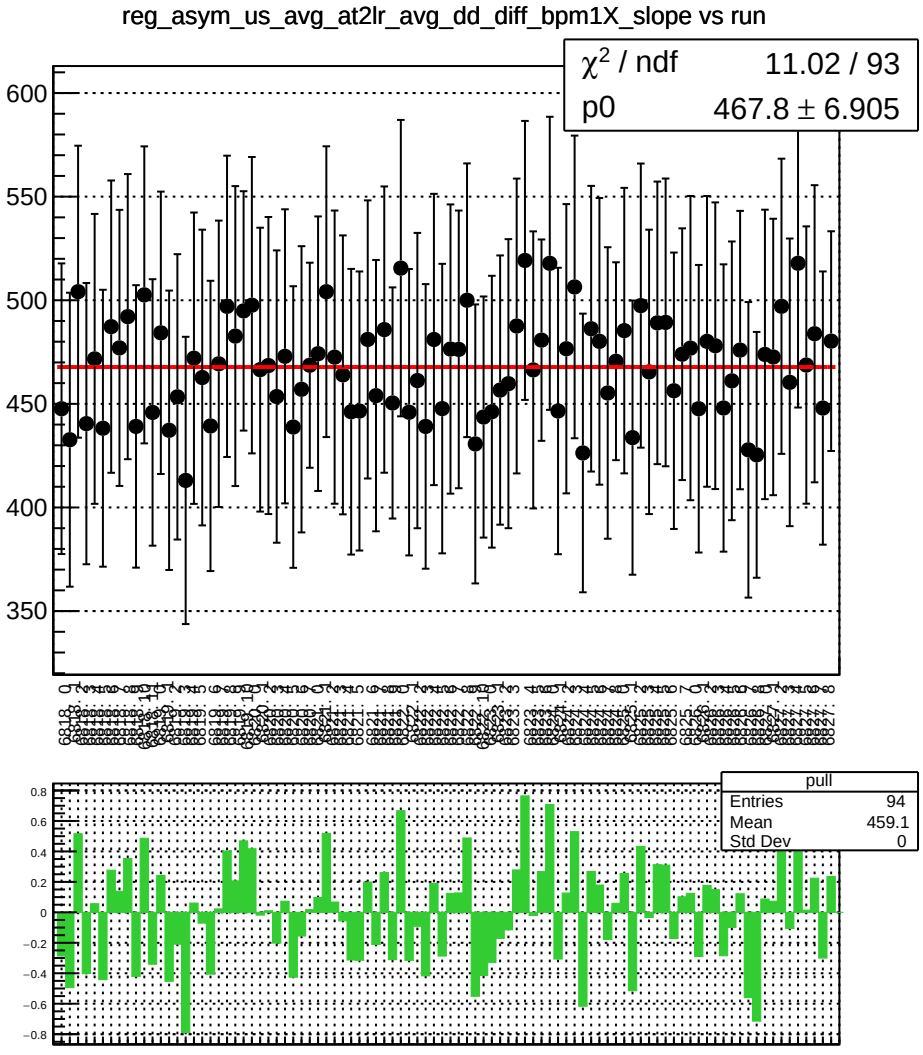

pull1D
Entries 94
Mean 0.005294
Std Dev 0.2369
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

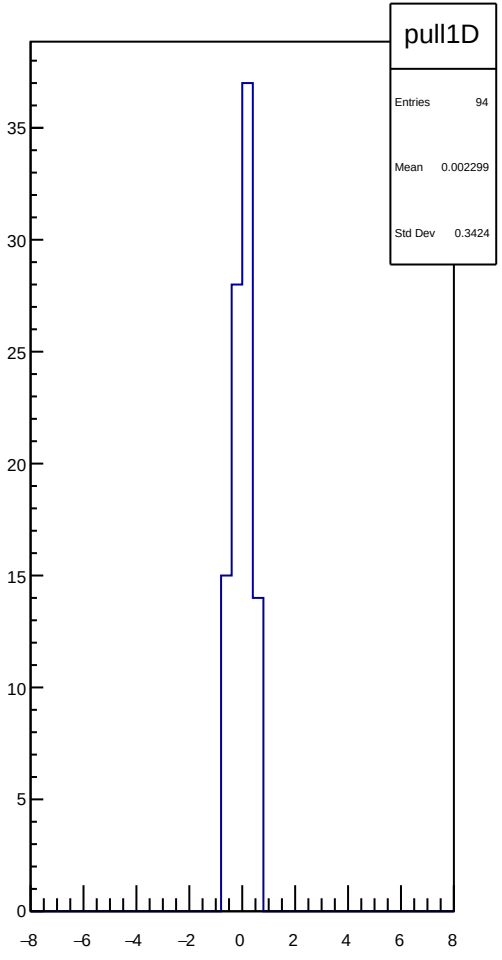

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.32 / 93
p0 611.4 ± 8.677
pull
Entries 94
Mean 914
Std Dev 0

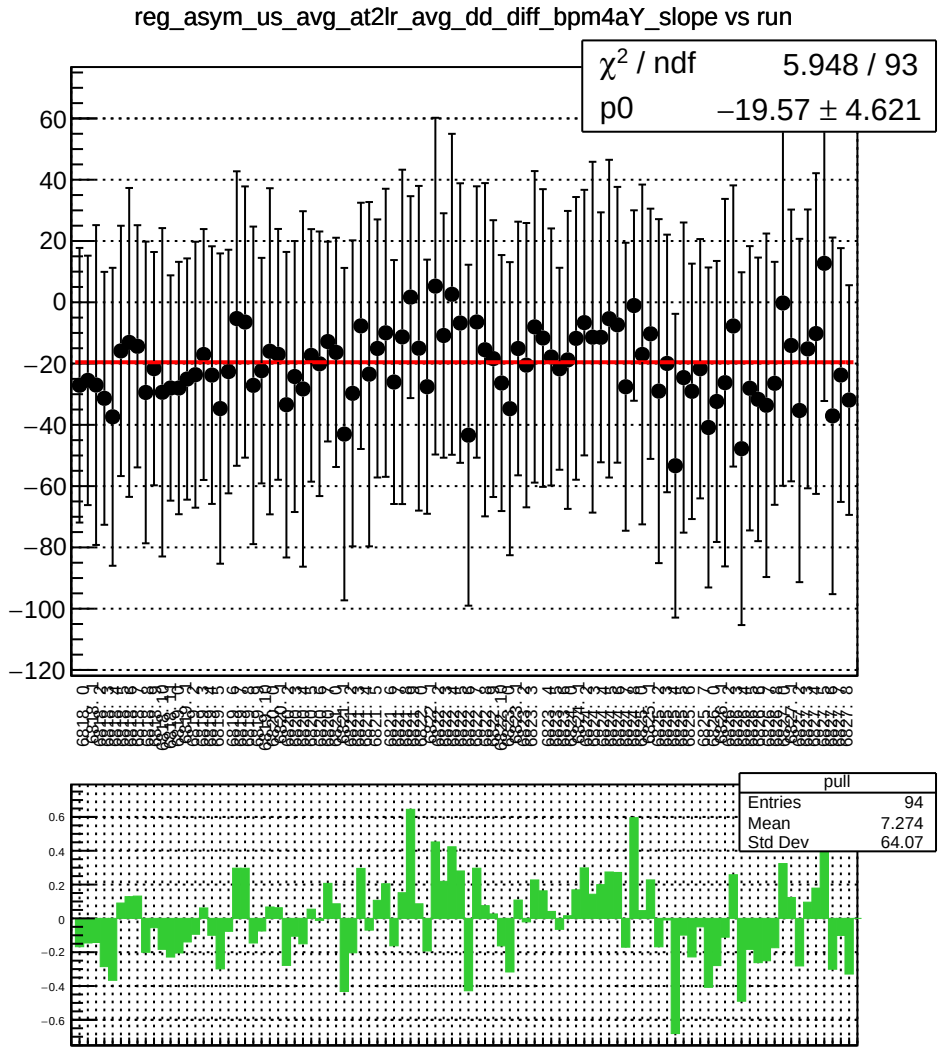

pull1D
Entries 94
Mean 0.001565
Std Dev 0.3621

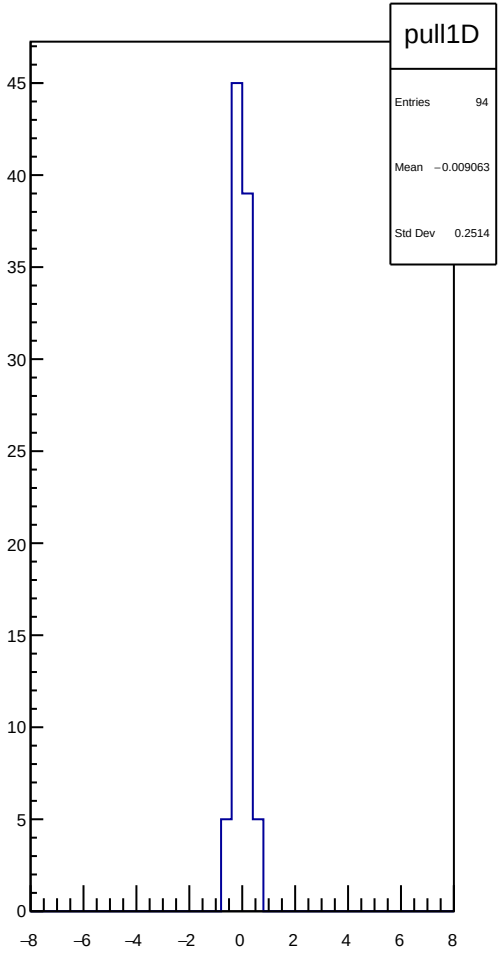

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.607 / 93
p0 105.9 ± 7.191
250
200
150
100
50
0
pull
Entries 94
Mean 251.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.003322
Std Dev 0.2442
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

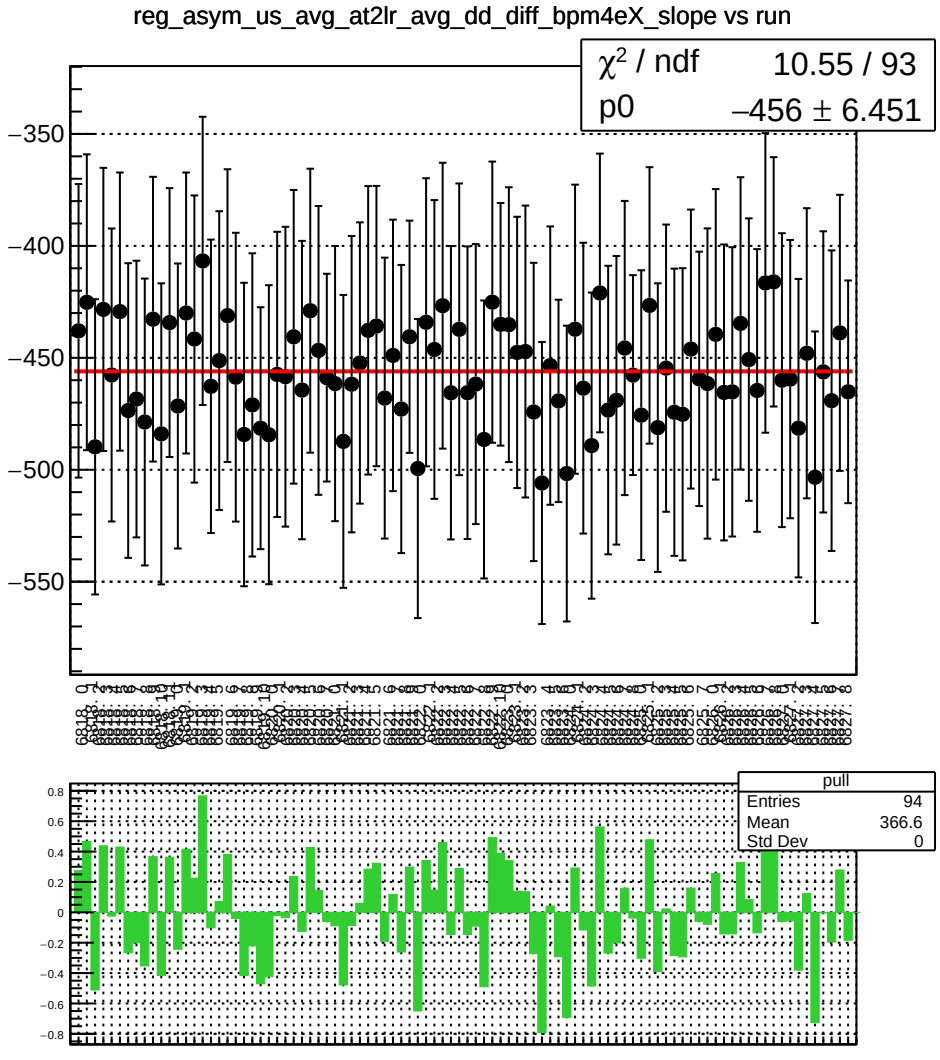

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 9.175 / 93
p0 −301.5 ± 0.352
−294
−296
−298
−300
−302
−304
−306
−308
pull
Entries 94
Mean −353.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 94
Mean −0.0009513
Std Dev 0.3124
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

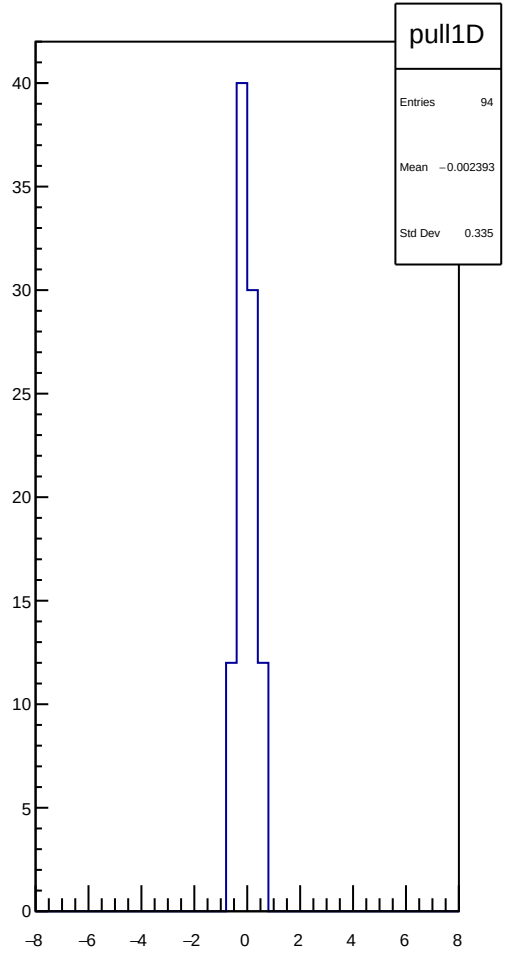

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 11.02 / 93
p0 467.8 ± 6.905
pull
Entries 94
Mean 459.1
Std Dev 0

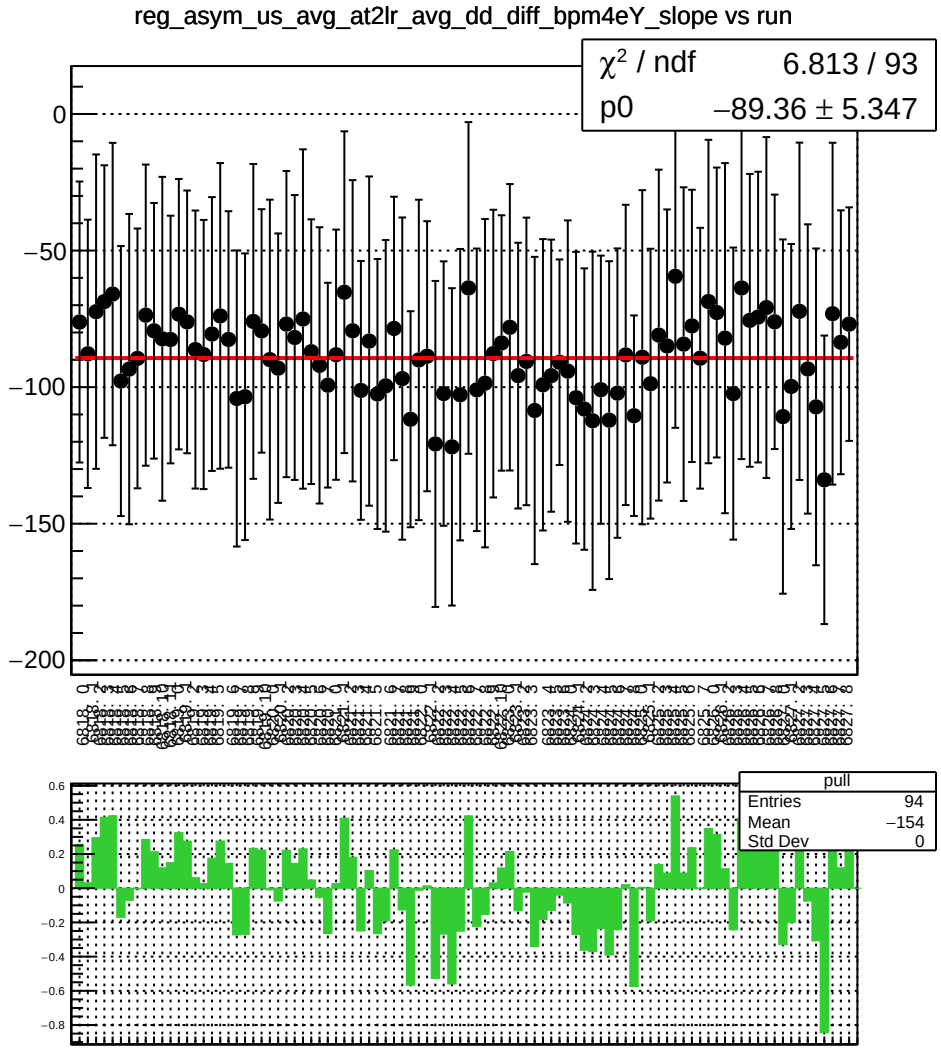

pull1D
Entries 94
Mean 0.002299
Std Dev 0.3424

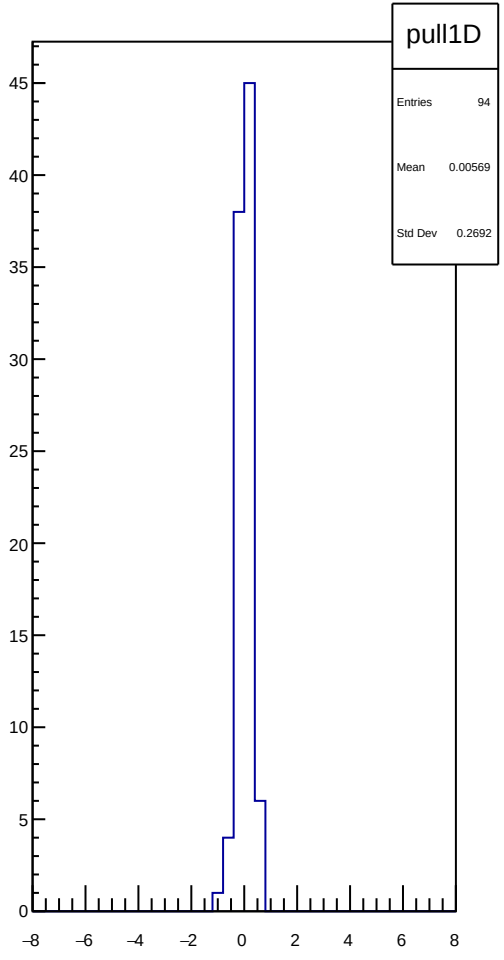

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 5.948 / 93
p0 −19.57 ± 4.621
pull
Entries 94
Mean 7.274
Std Dev 64.07

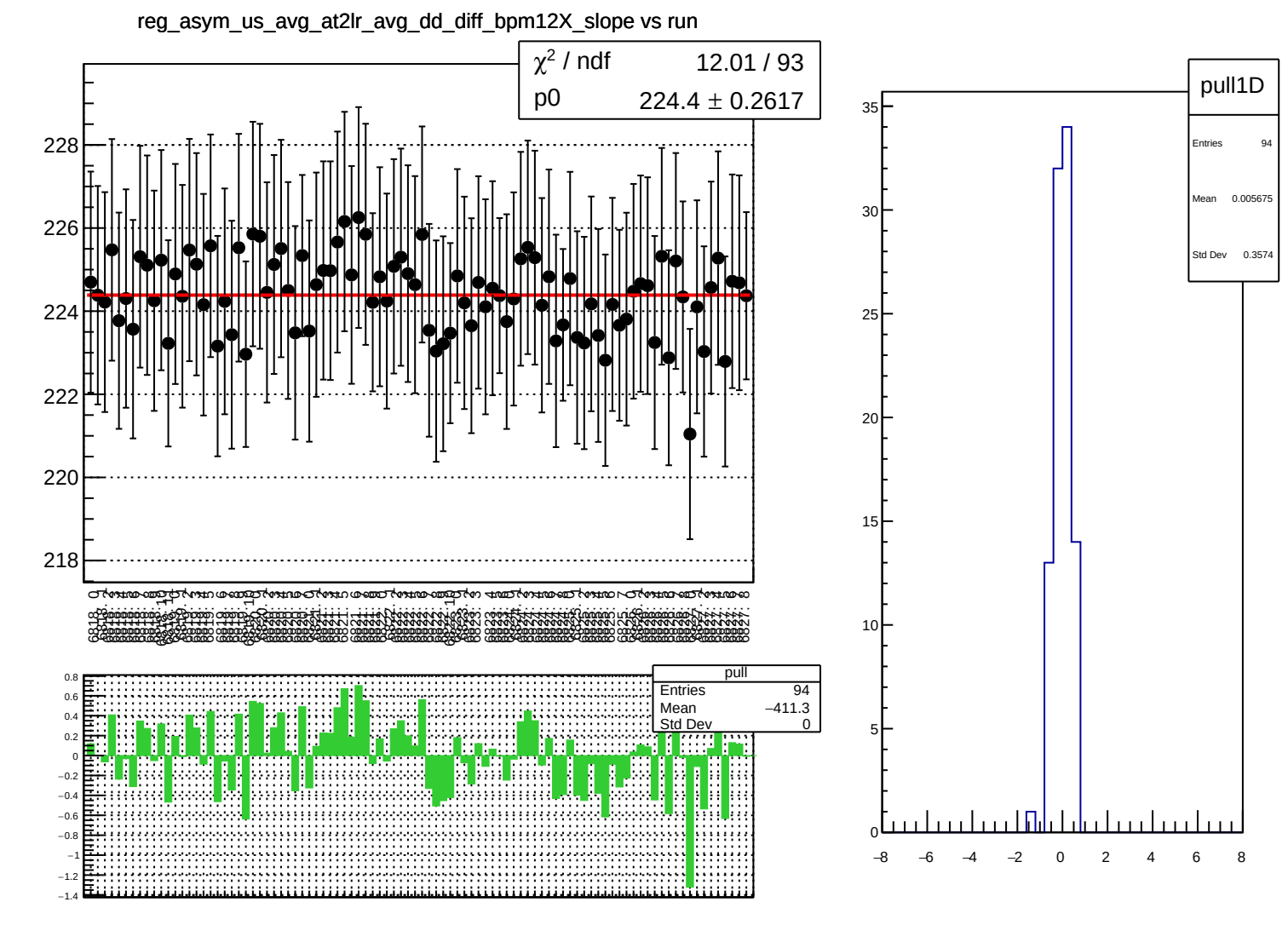

pull1D
Entries 94
Mean −0.009063
Std Dev 0.2514

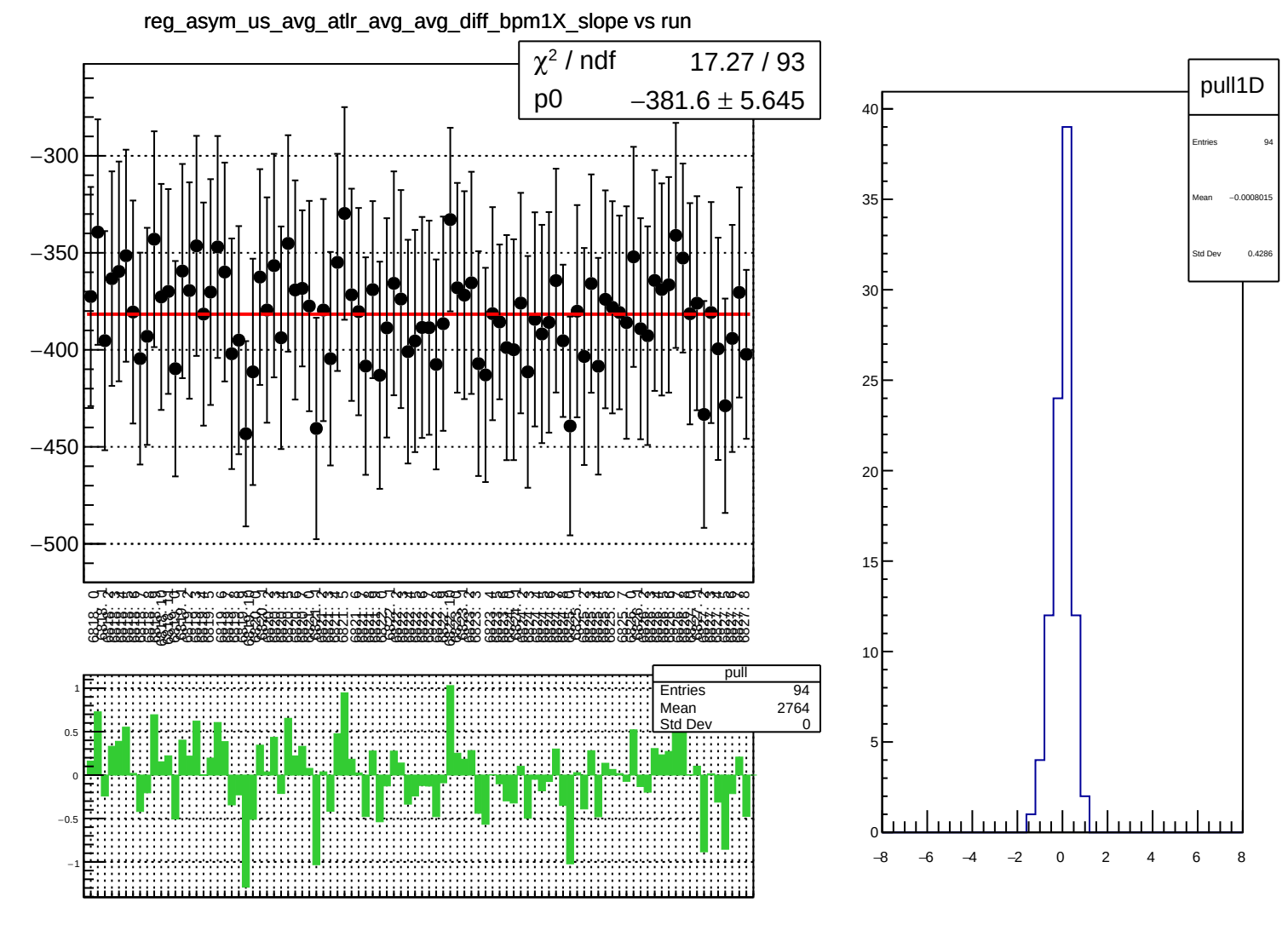

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.55 / 93
p0 −456 ± 6.451
−350
−400
−450
−500
−550
pull
Entries 94
Mean 366.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

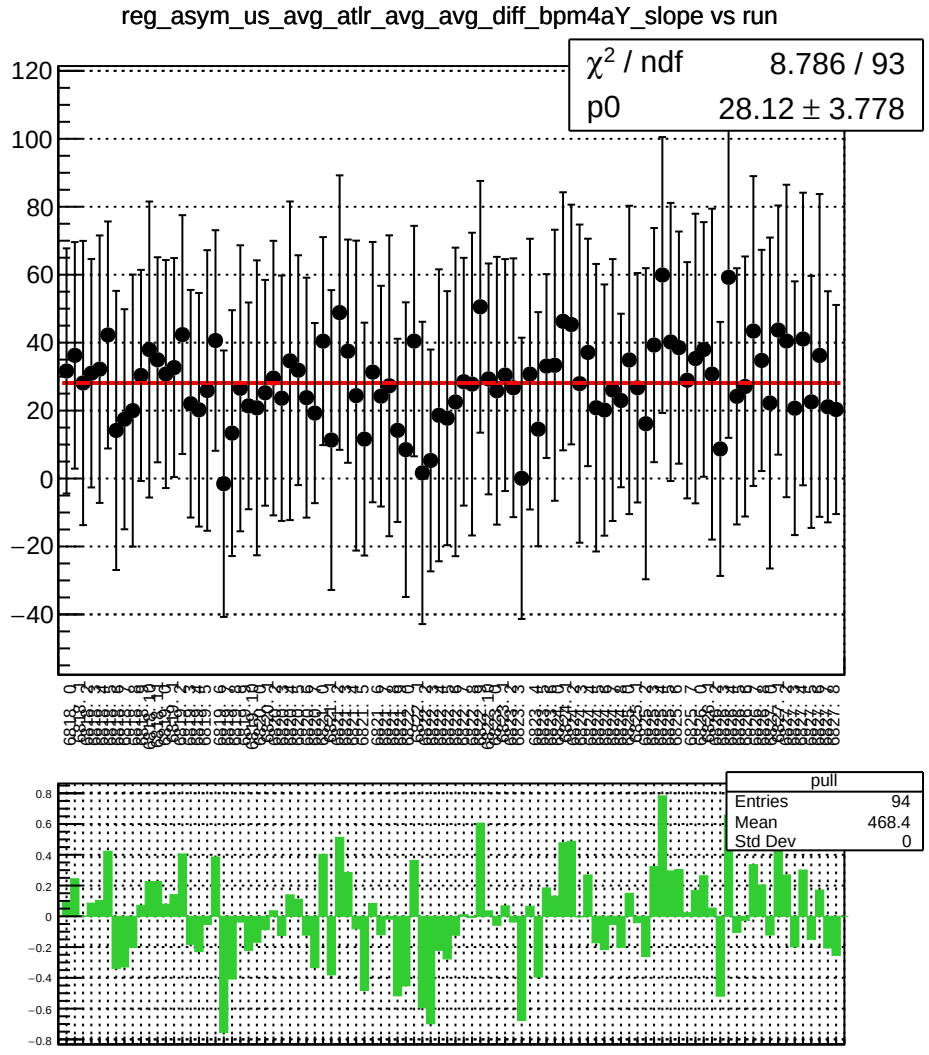

pull1D
Entries 94
Mean −0.002393
Std Dev 0.335
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

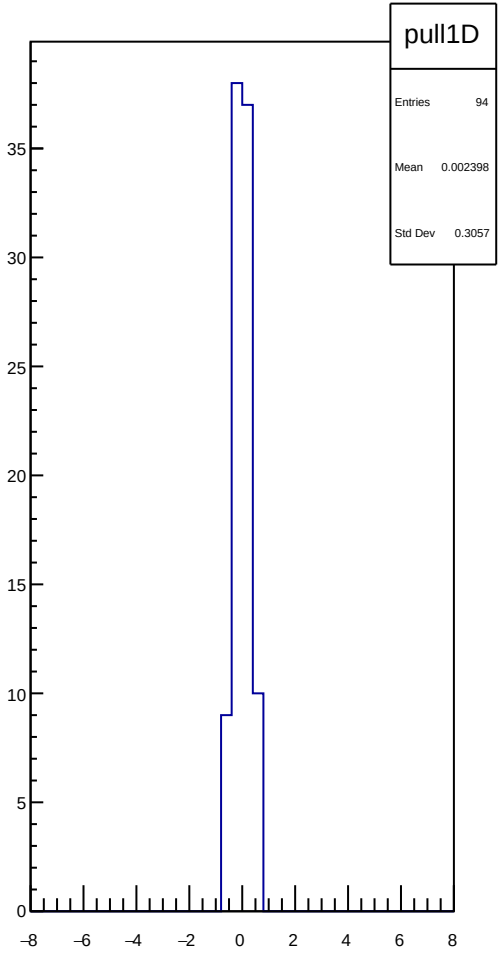

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.813 / 93
p0 −89.36 ± 5.347
0
−50
−100
−150
−200
pull
Entries 94
Mean −154
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

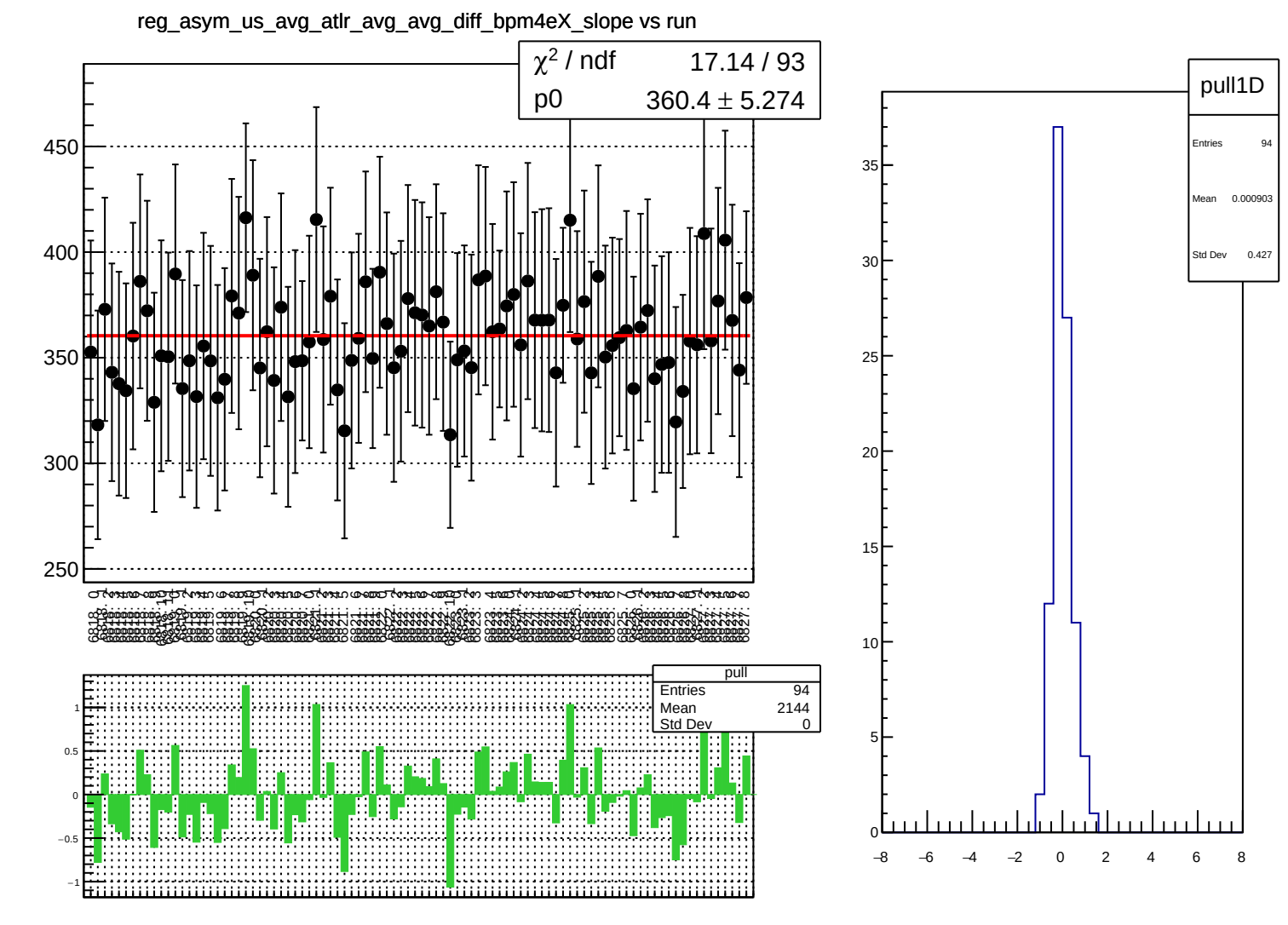

pull1D
Entries 94
Mean 0.00569
Std Dev 0.2692
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

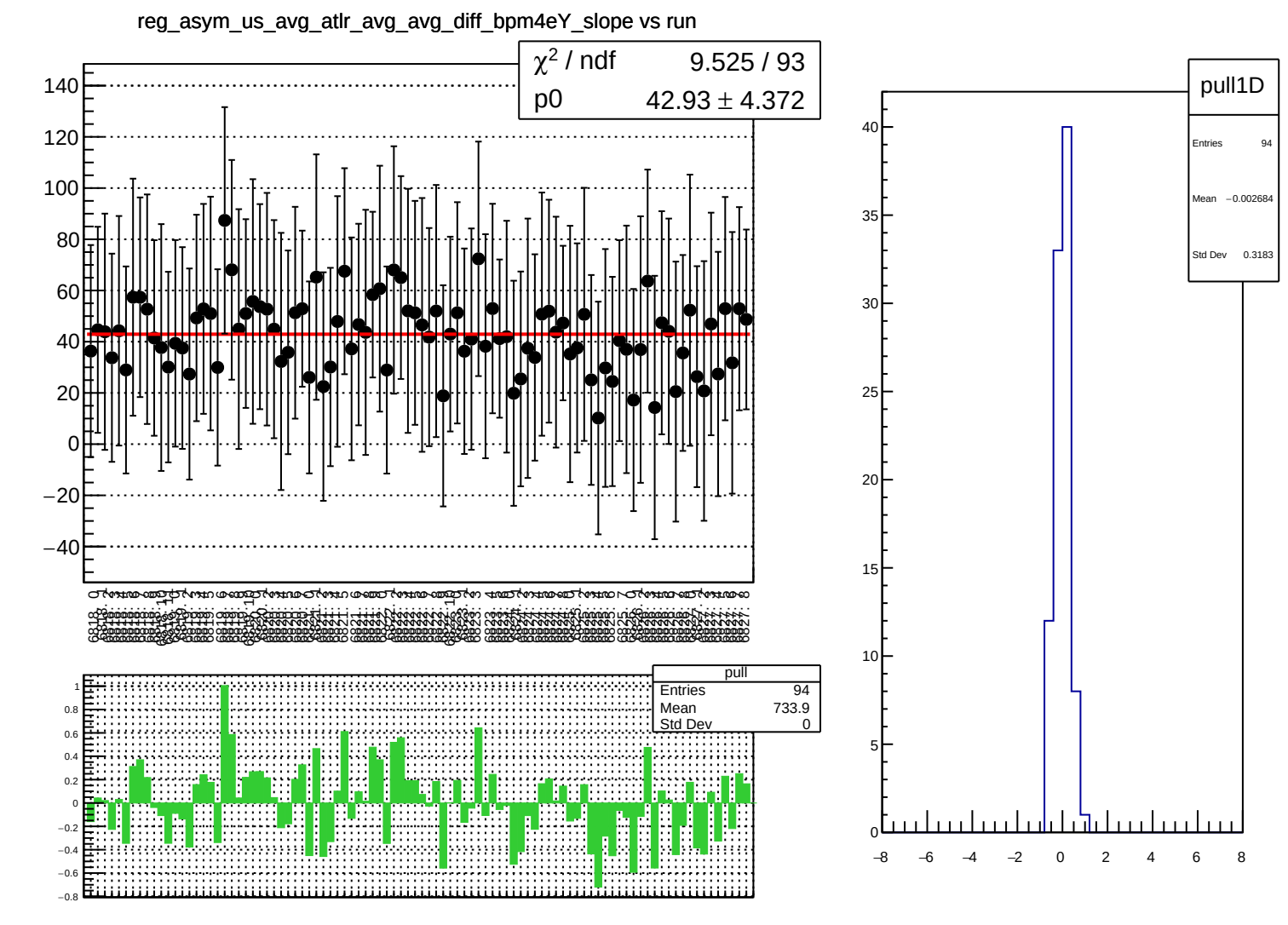

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 12.01 / 93
p0 224.4 ± 0.2617
228
226
224
222
220
218
pull
Entries 94
Mean −411.3
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
−1.4
pull1D
Entries 94
Mean 0.005675
Std Dev 0.3574
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

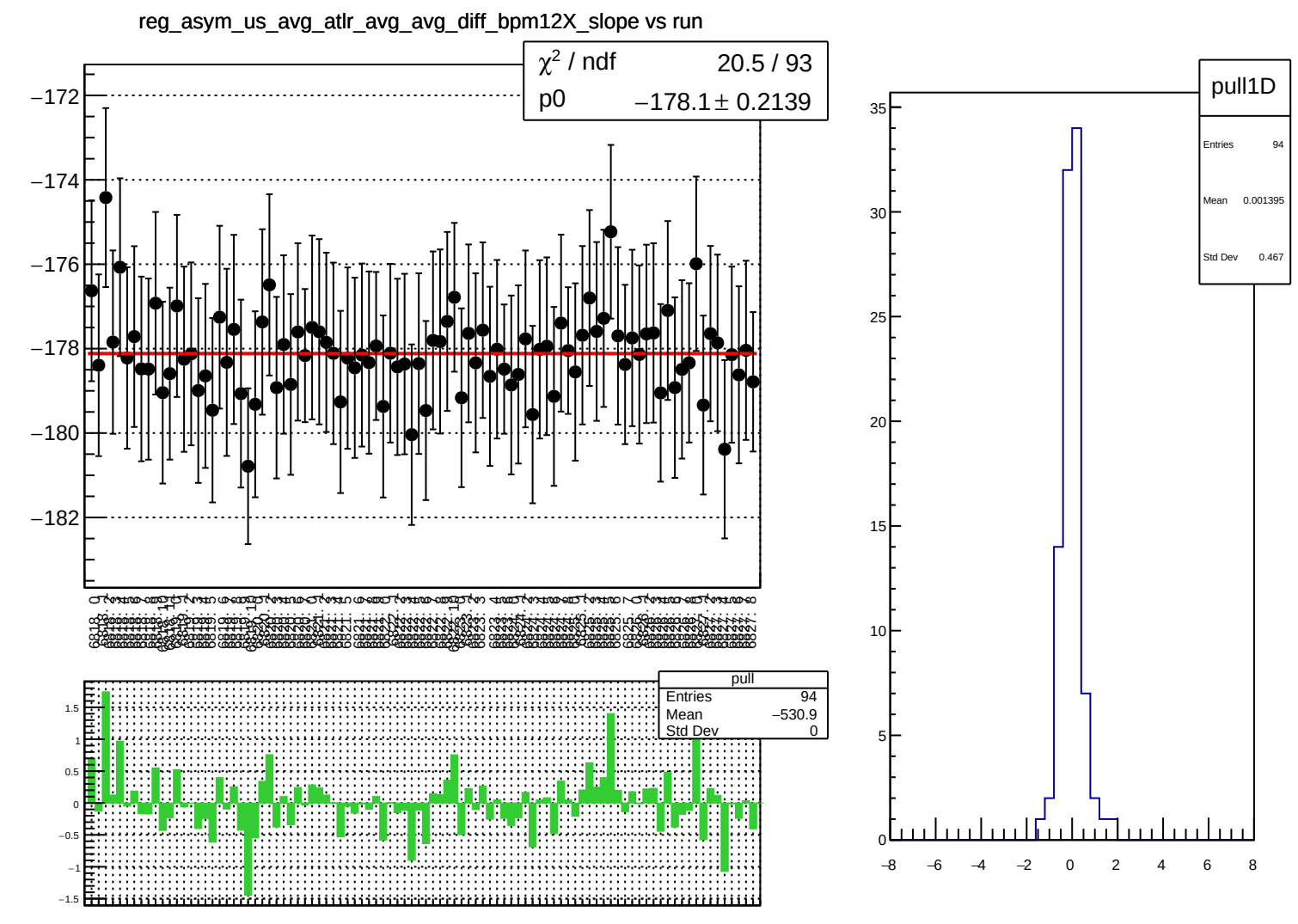

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 17.27 / 93
p0 −381.6 ± 5.645
−300
−350
−400
−450
−500
pull
Entries 94
Mean 2764
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean −0.0008015
Std Dev 0.4286
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

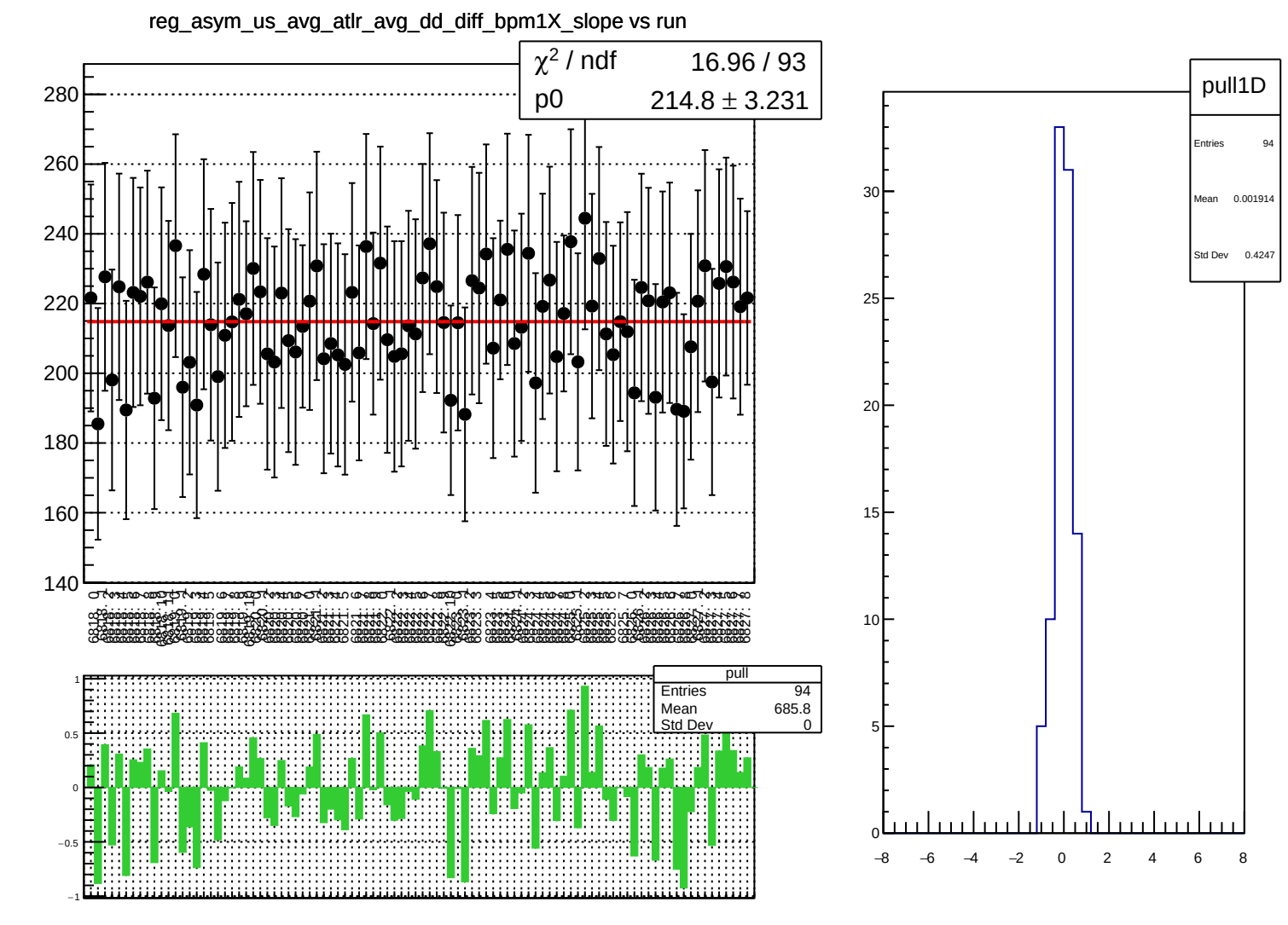

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.786 / 93
p0 28.12 ± 3.778
pull
Entries 94
Mean 468.4
Std Dev 0

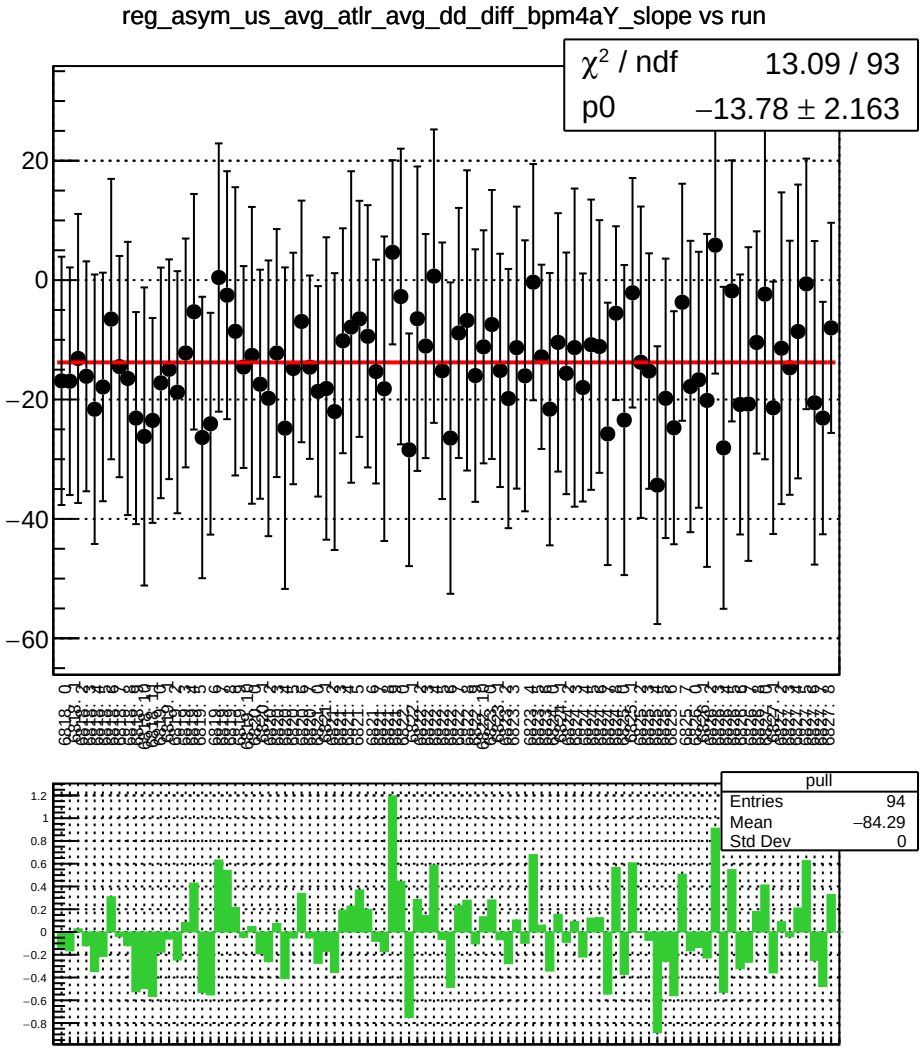

pull1D
Entries 94
Mean 0.002398
Std Dev 0.3057

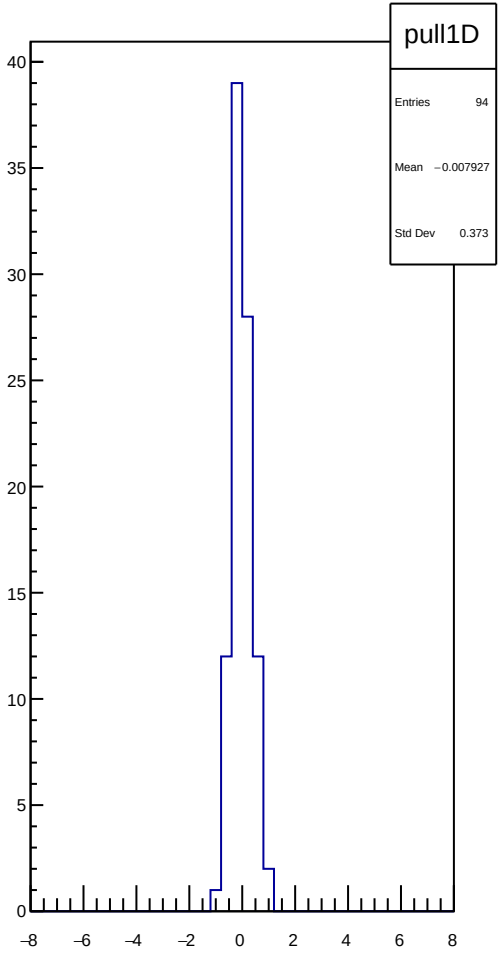

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.14 / 93
p0 360.4 ± 5.274
450
400
350
300
250
pull
Entries 94
Mean 2144
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 94
Mean 0.000903
Std Dev 0.427
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

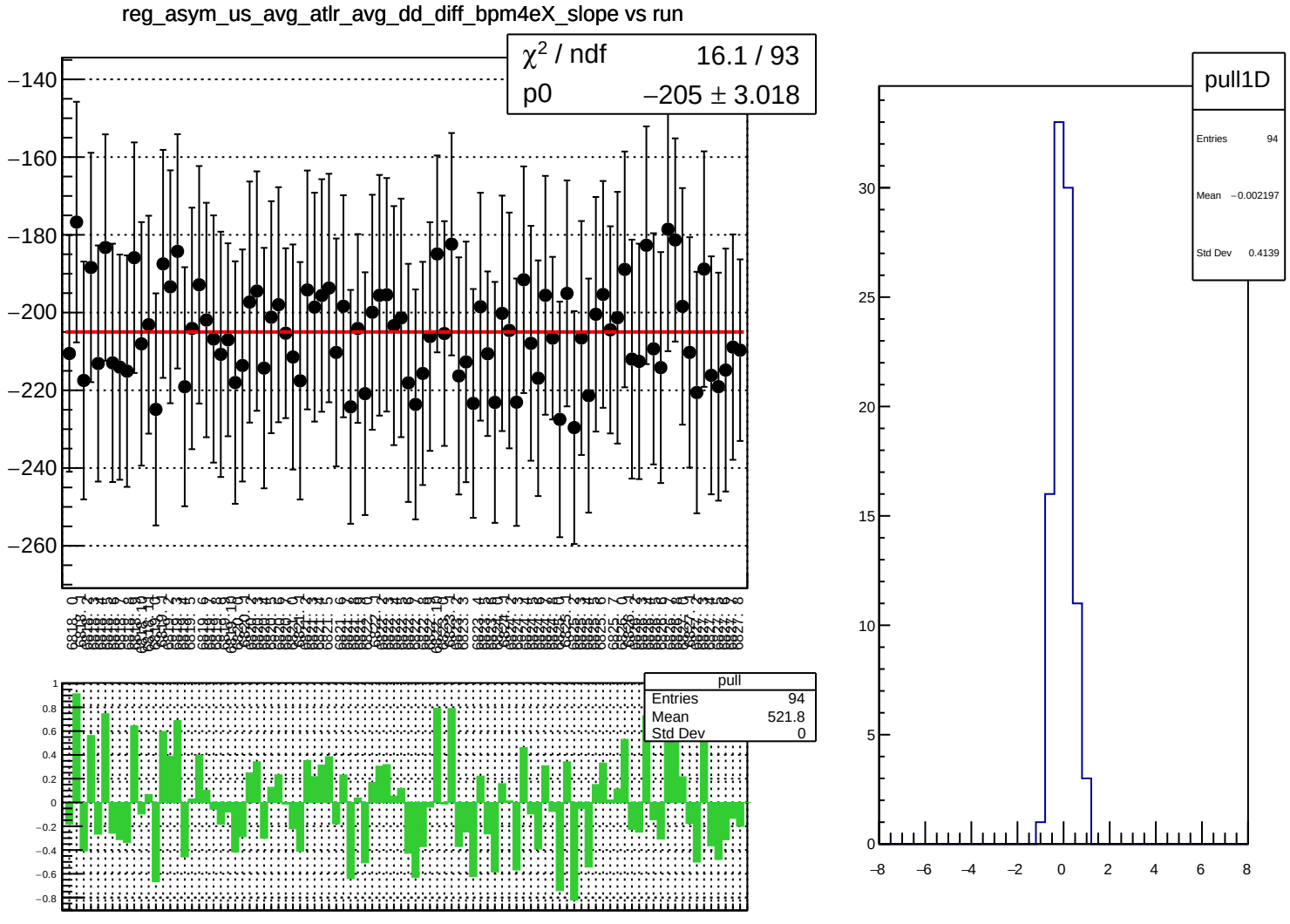

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.525 / 93
p0 42.93 ± 4.372
pull
Entries 94
Mean 733.9
Std Dev 0
pull1D
Entries 94
Mean −0.002684
Std Dev 0.3183

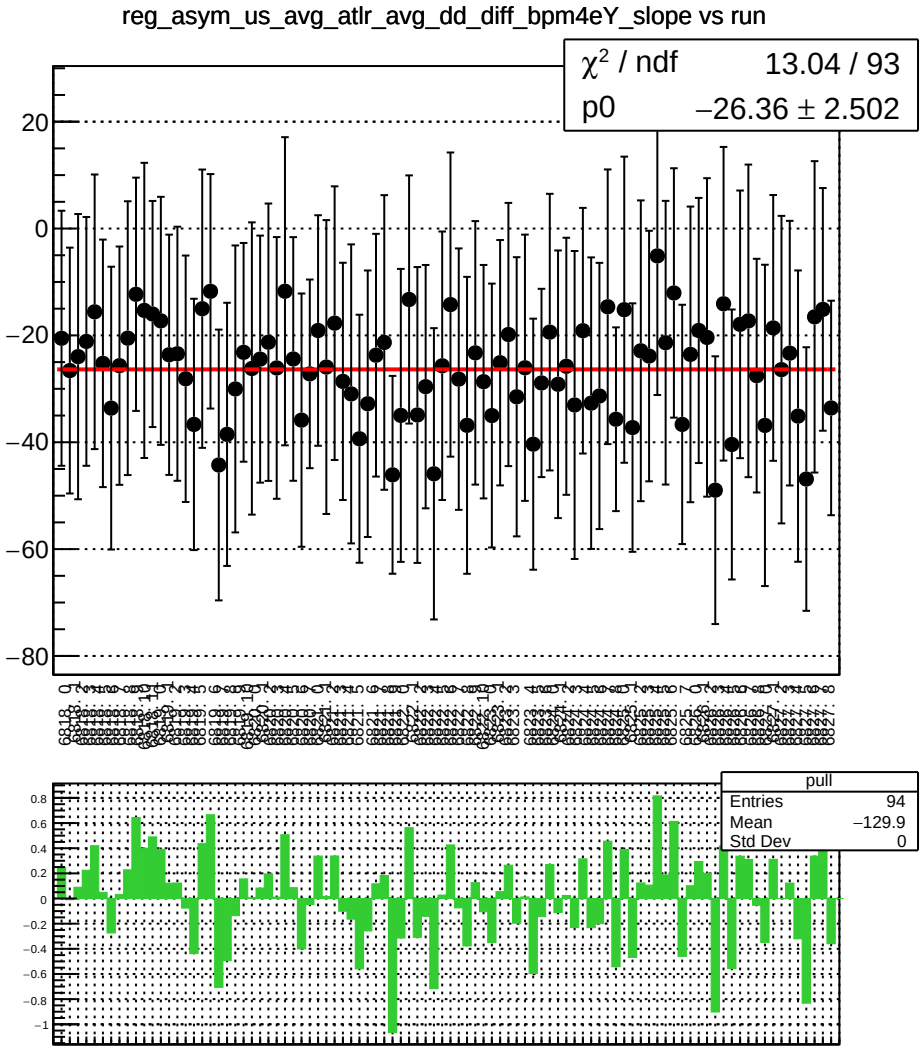

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 20.5 / 93
p0 −178.1 ± 0.2139
−172
−174
−176
−178
−180
−182
pull
Entries 94
Mean −530.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.001395
Std Dev 0.467
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

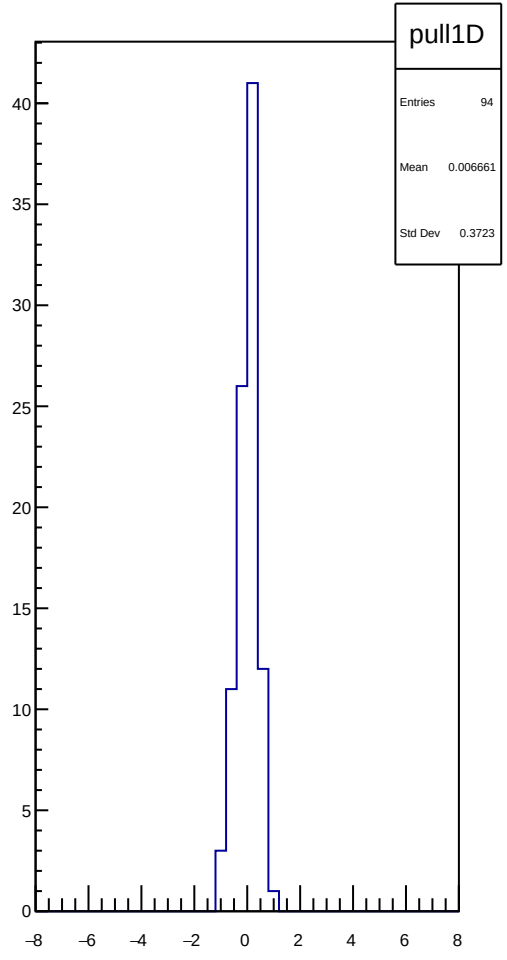

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 16.96 / 93
p0 214.8 ± 3.231
pull
Entries 94
Mean 685.8
Std Dev 0
pull1D
Entries 94
Mean 0.001914
Std Dev 0.4247

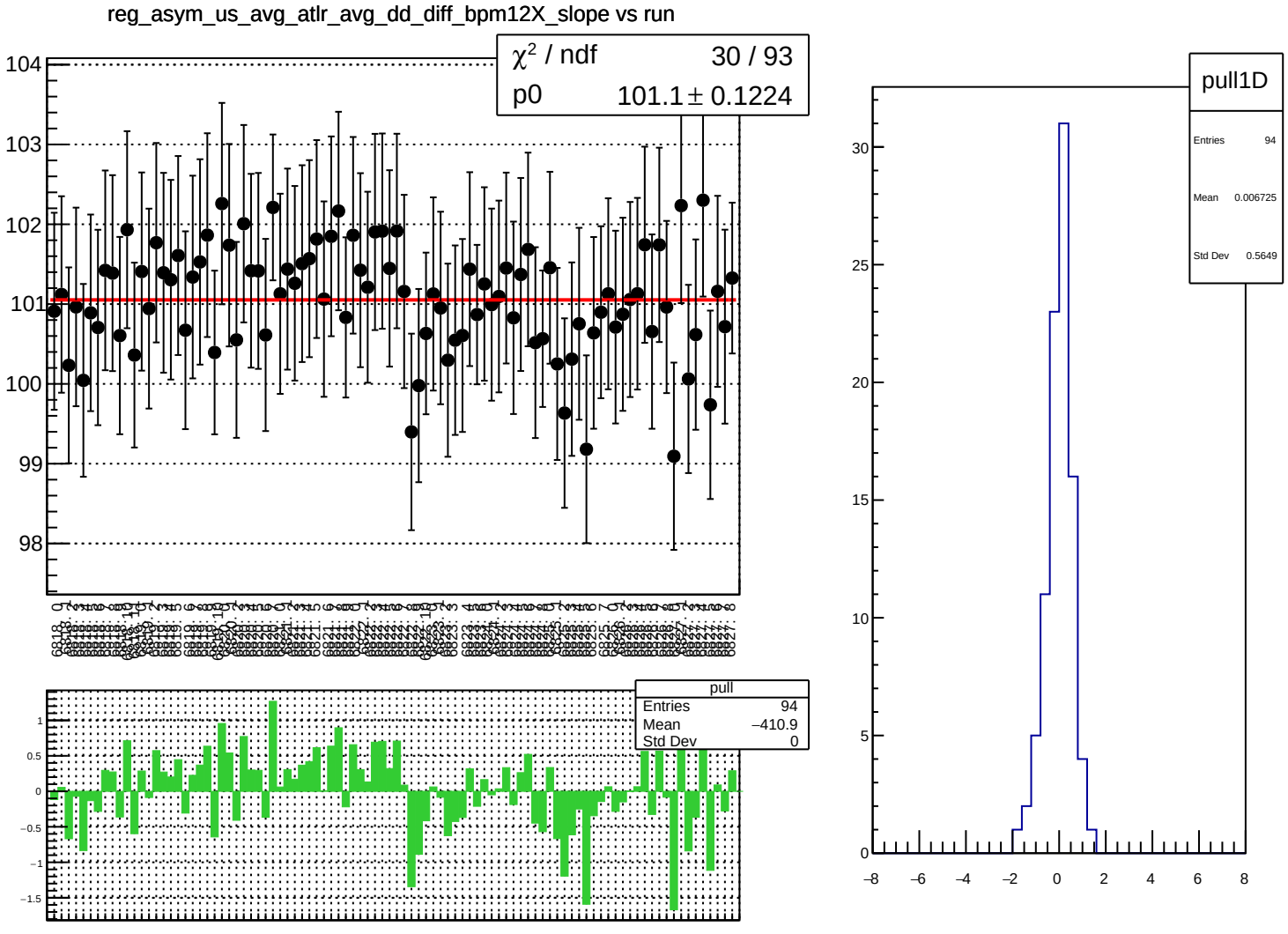

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.09 / 93
p0 −13.78 ± 2.163
pull
Entries 94
Mean −84.29
Std Dev 0

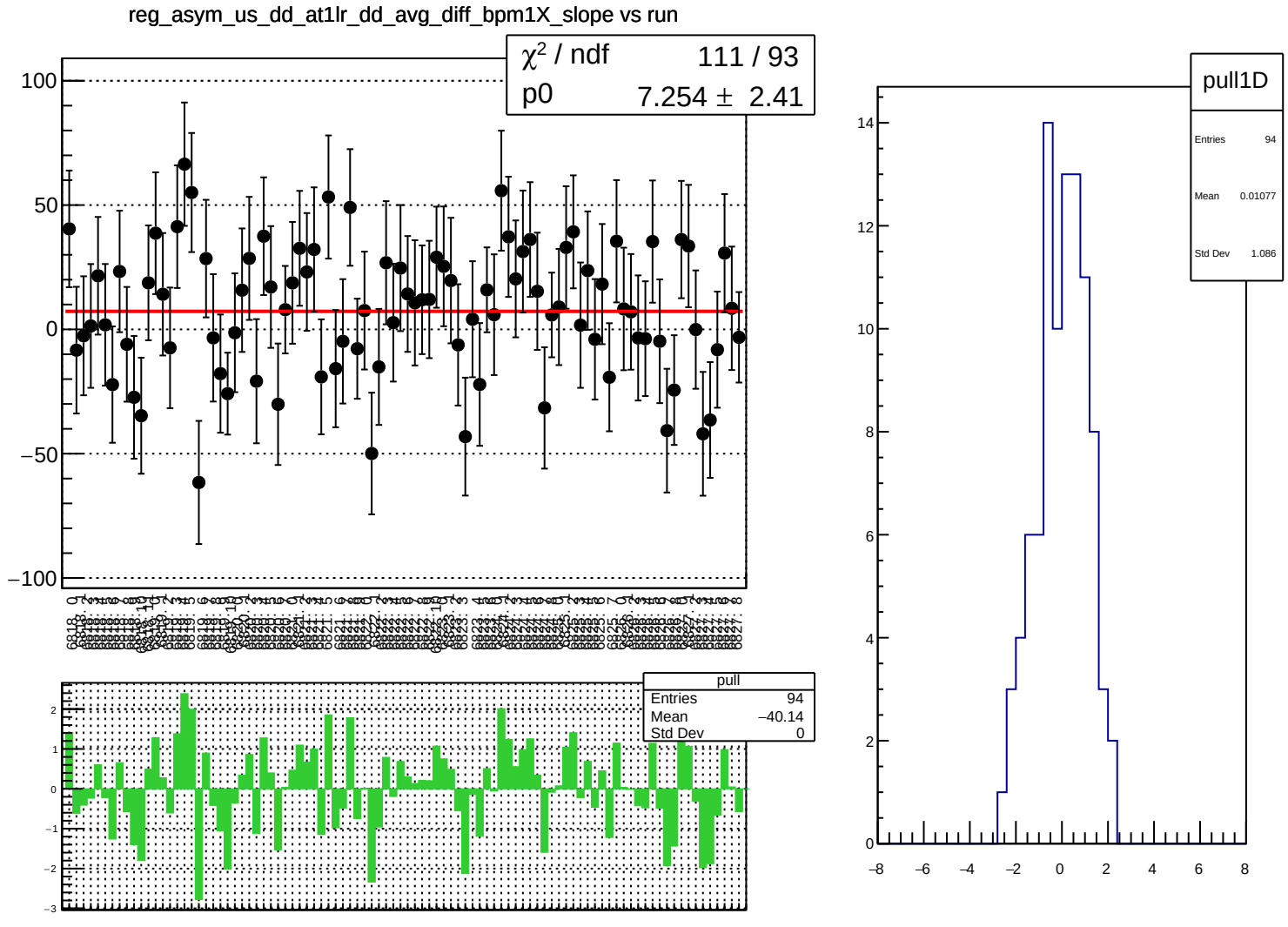

pull1D
Entries 94
Mean −0.007927
Std Dev 0.373

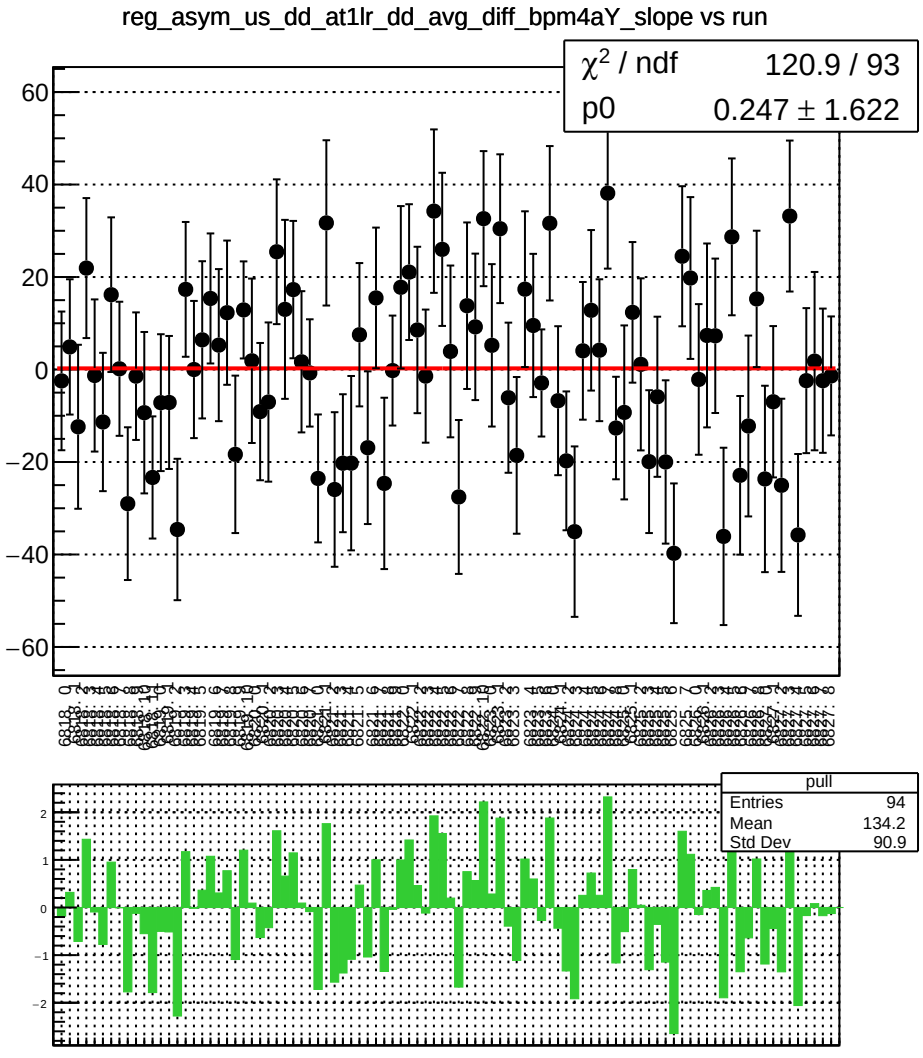

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.1 / 93
p0 −205 ± 3.018
−140
−160
−180
−200
−220
−240
−260
pull
Entries 94
Mean 521.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 94
Mean −0.002197
Std Dev 0.4139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

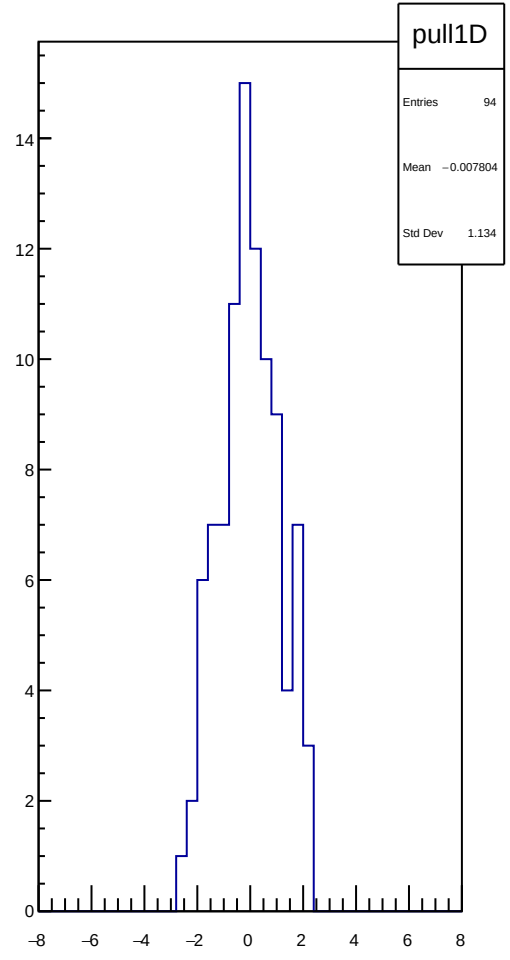

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.04 / 93
p0 −26.36 ± 2.502
pull
Entries 94
Mean −129.9
Std Dev 0

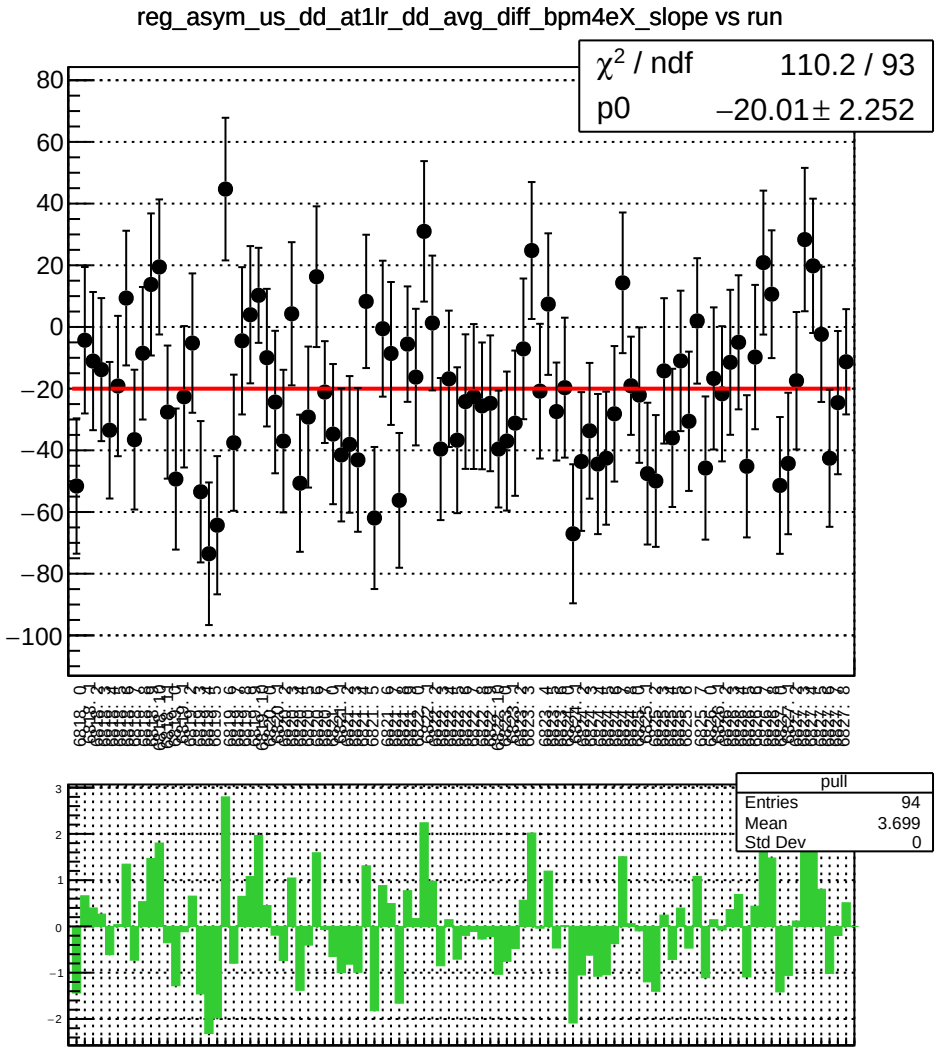

pull1D
Entries 94
Mean 0.006661
Std Dev 0.3723

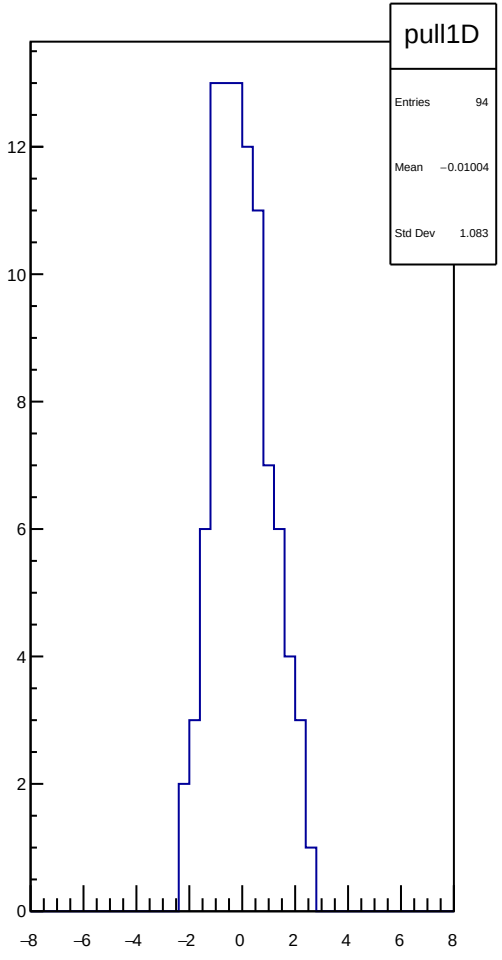

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 30 / 93
p0 101.1 ± 0.1224
104
103
102
101
100
99
98
pull
Entries 94
Mean −410.9
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 94
Mean 0.006725
Std Dev 0.5649
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

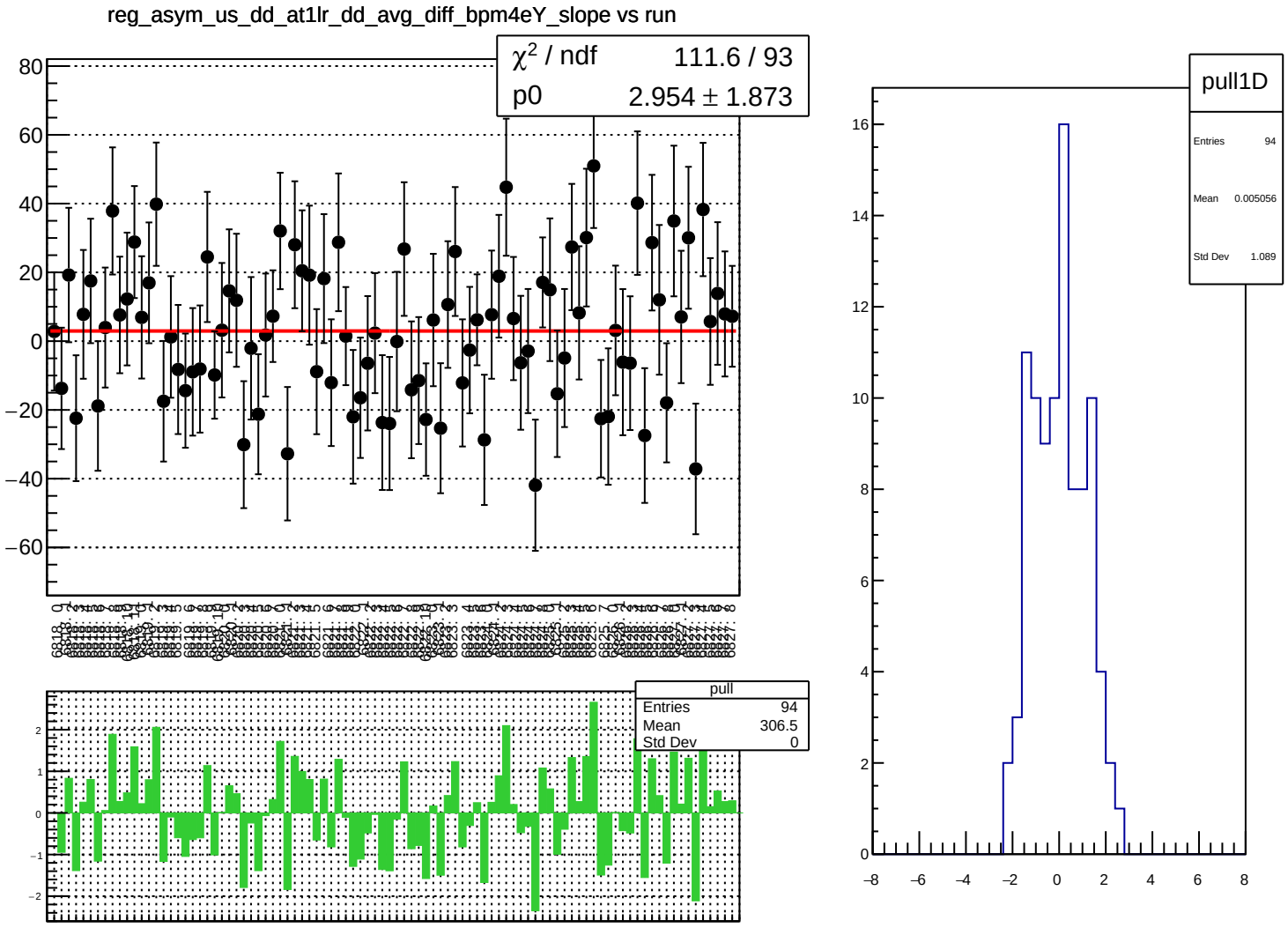

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 111 / 93
p0 7.254 ± 2.41
pull
Entries 94
Mean −40.14
Std Dev 0
pull1D
Entries 94
Mean 0.01077
Std Dev 1.086

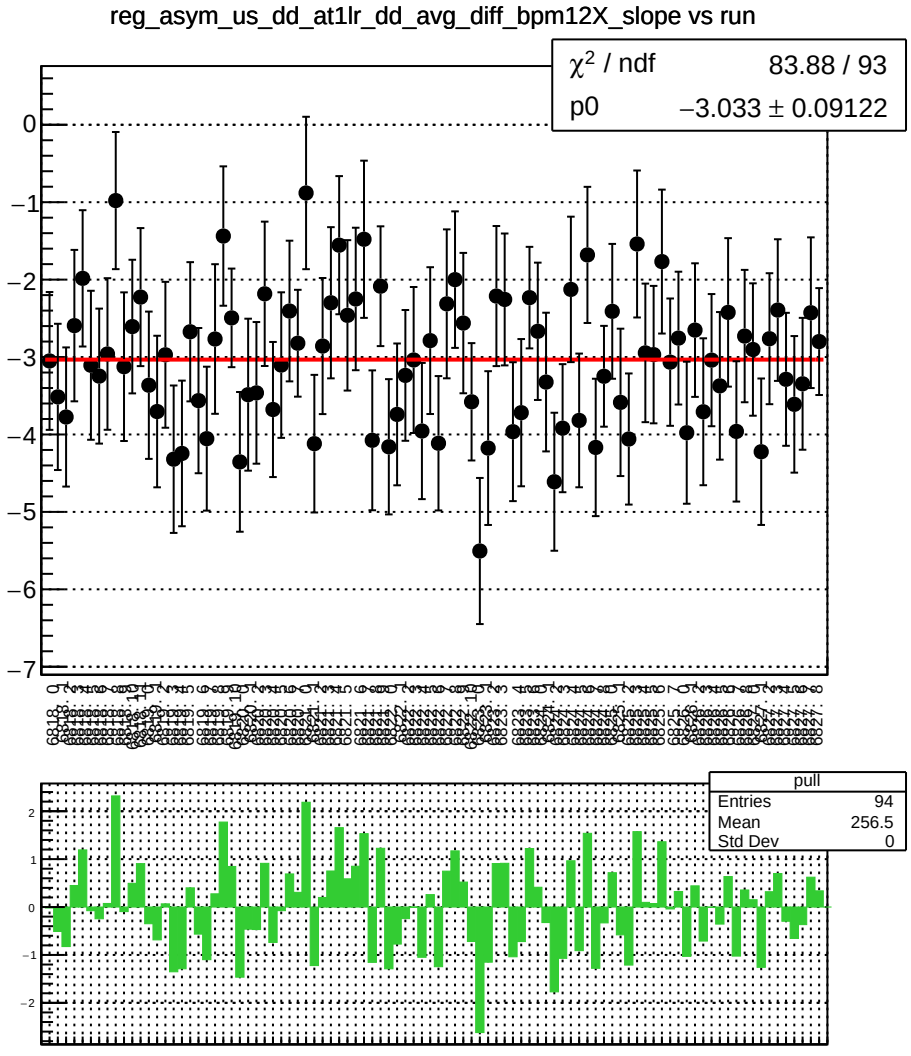

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 120.9 / 93
p0 0.247 ± 1.622
pull
Entries 94
Mean 134.2
Std Dev 90.9

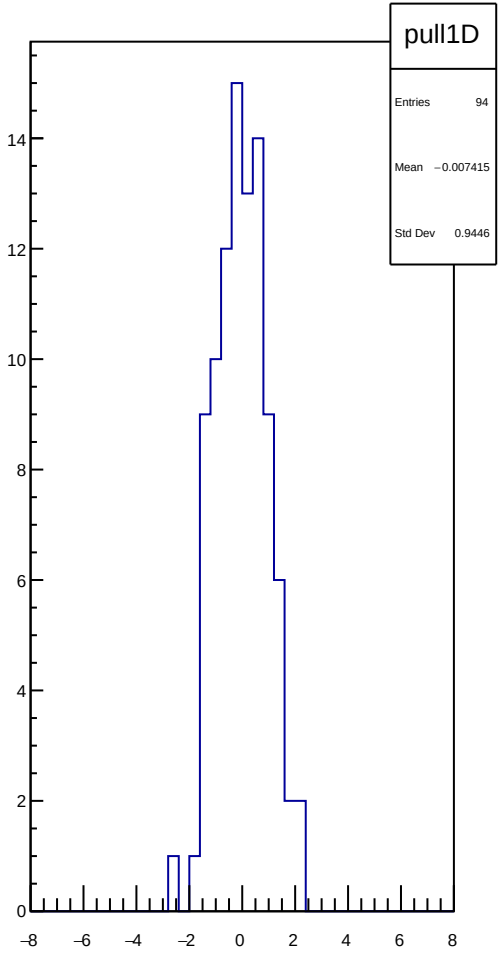

pull1D
Entries 94
Mean −0.007804
Std Dev 1.134

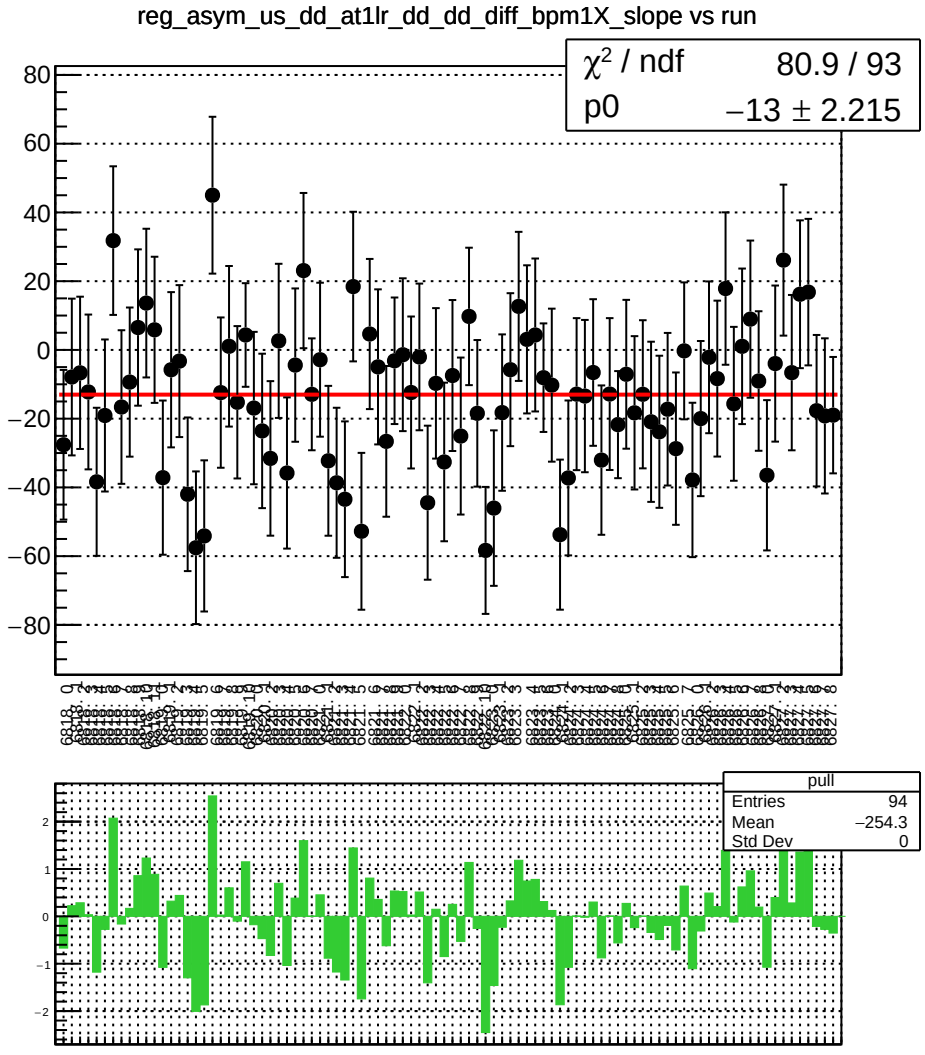

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 110.2 / 93
p0 −20.01 ± 2.252
pull
Entries 94
Mean 3.699
Std Dev 0

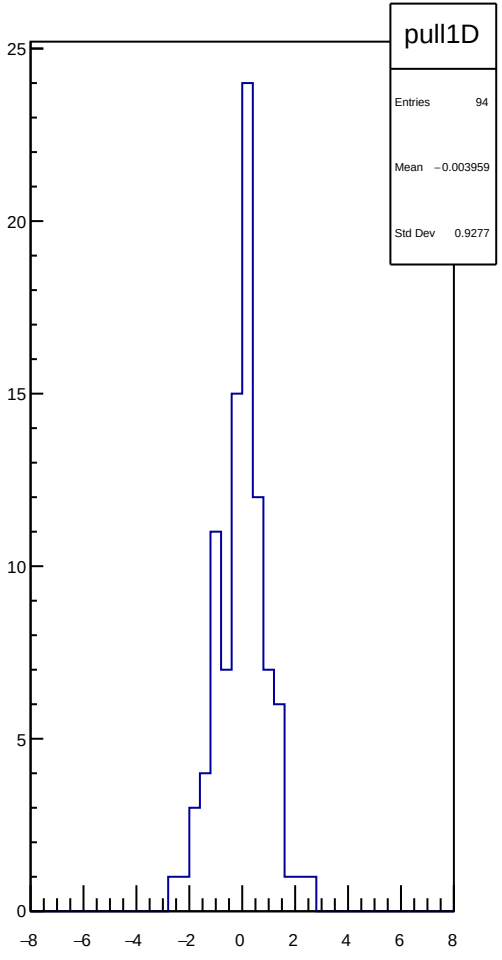

pull1D
Entries 94
Mean −0.01004
Std Dev 1.083

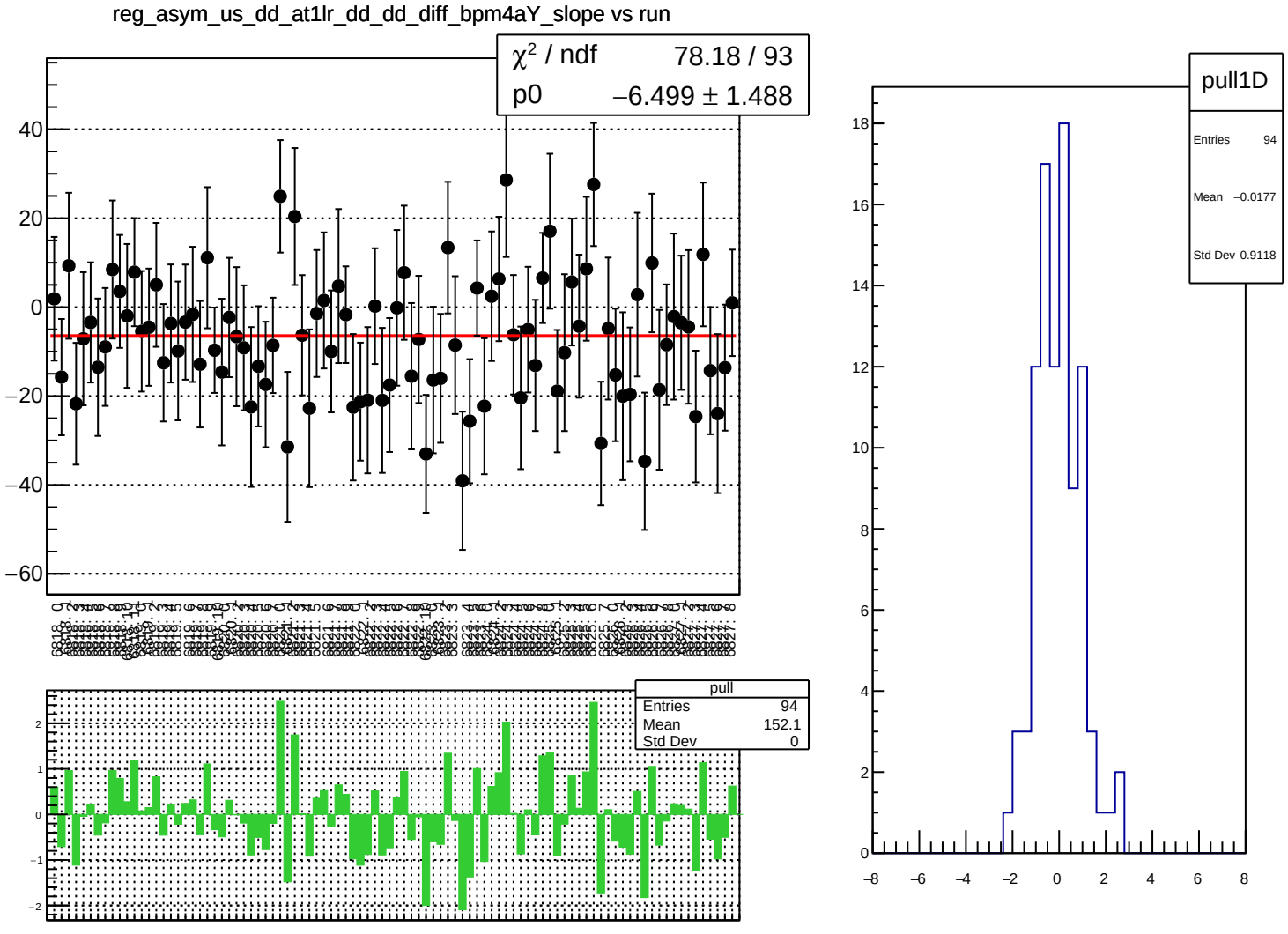

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 111.6 / 93
p0 2.954 ± 1.873
pull
Entries 94
Mean 306.5
Std Dev 0
pull1D
Entries 94
Mean 0.005056
Std Dev 1.089

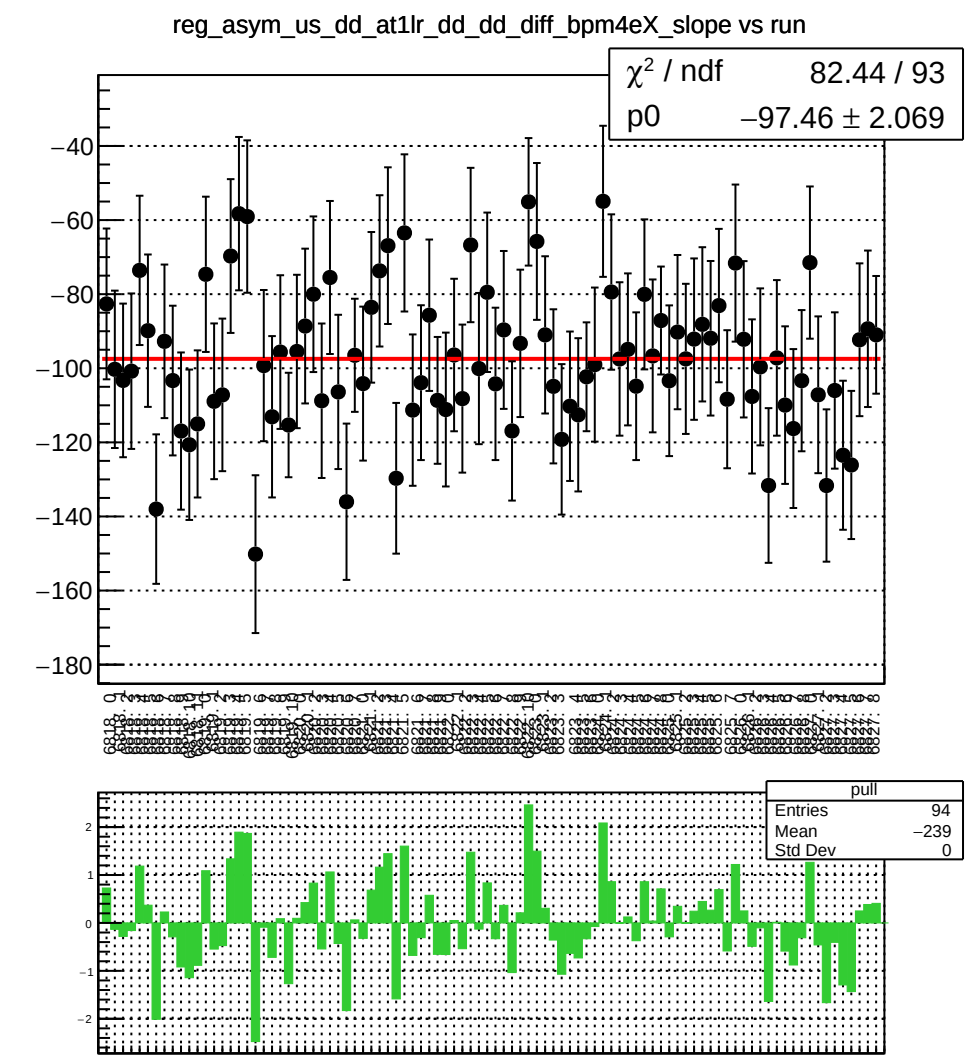

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 83.88 / 93
p0 −3.033 ± 0.09122
pull
Entries 94
Mean 256.5
Std Dev 0

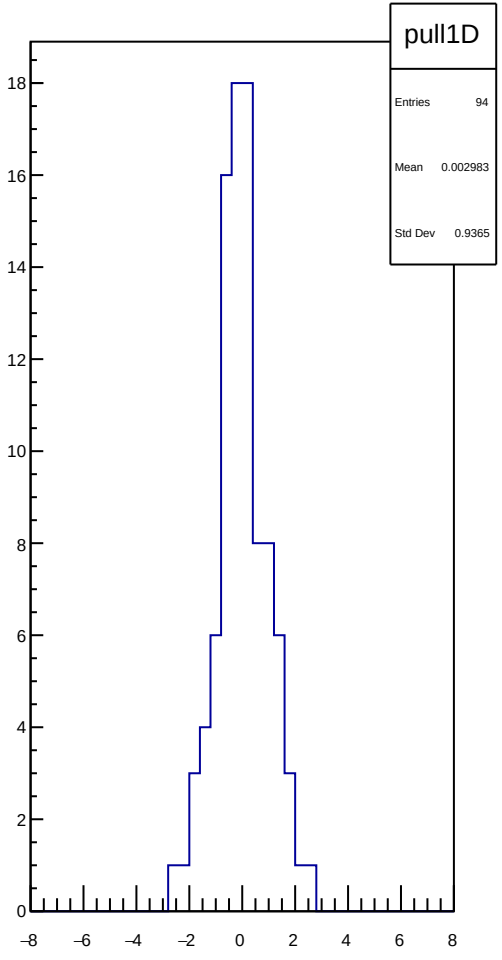

pull1D
Entries 94
Mean −0.007415
Std Dev 0.9446

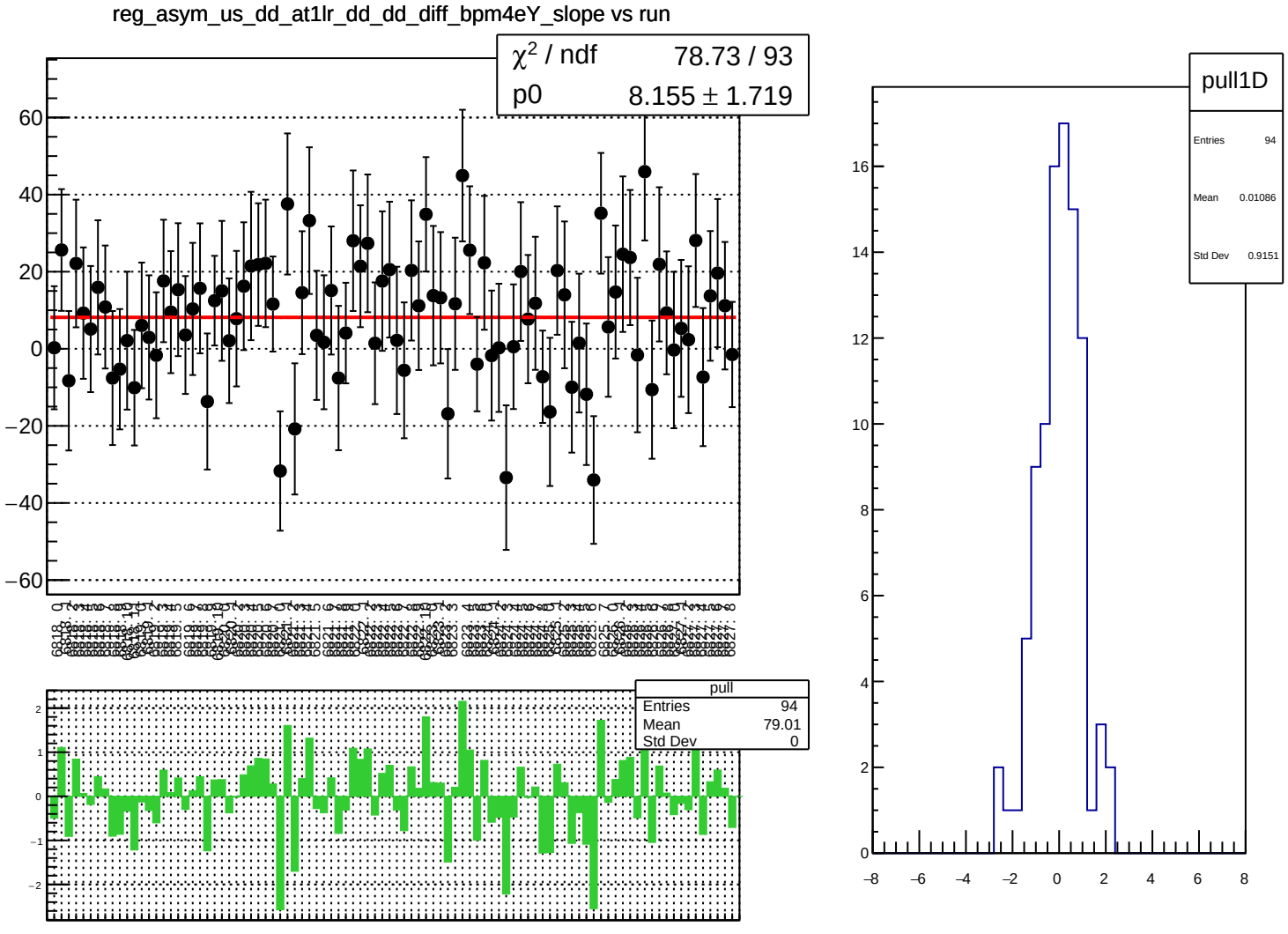

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 80.9 / 93
p0 −13 ± 2.215
pull
Entries 94
Mean −254.3
Std Dev 0

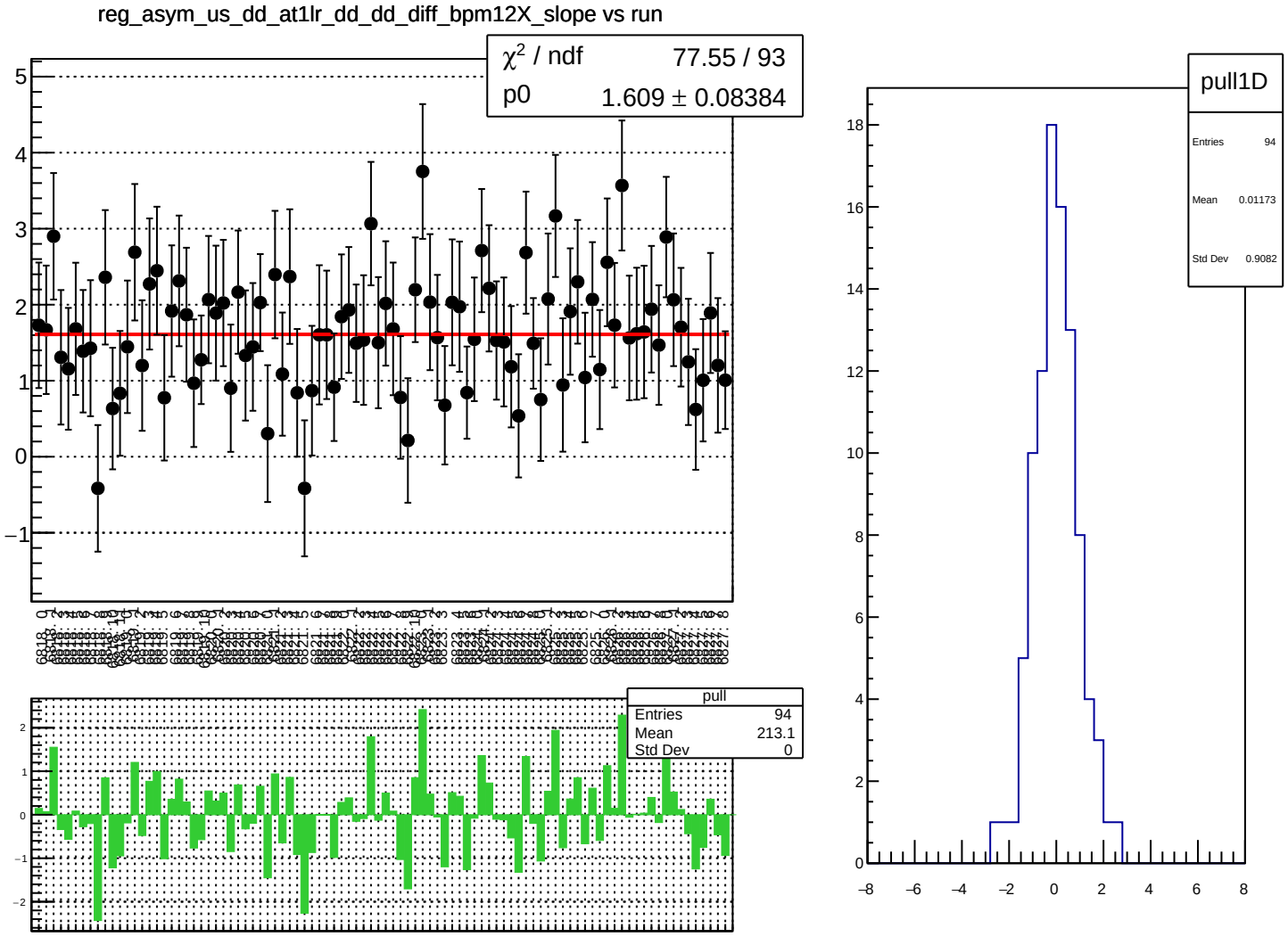

pull1D
Entries 94
Mean −0.003959
Std Dev 0.9277

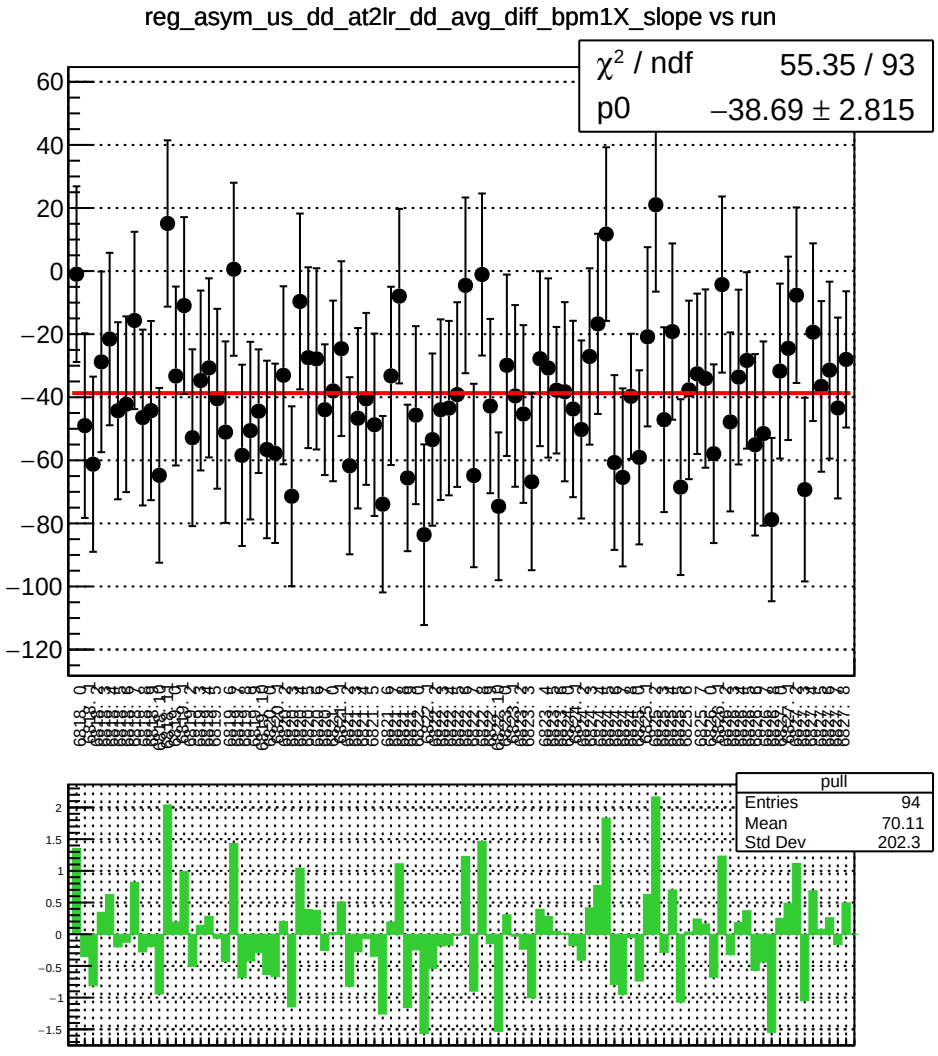

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.18 / 93
p0 −6.499 ± 1.488
pull
Entries 94
Mean 152.1
Std Dev 0
pull1D
Entries 94
Mean −0.0177
Std Dev 0.9118

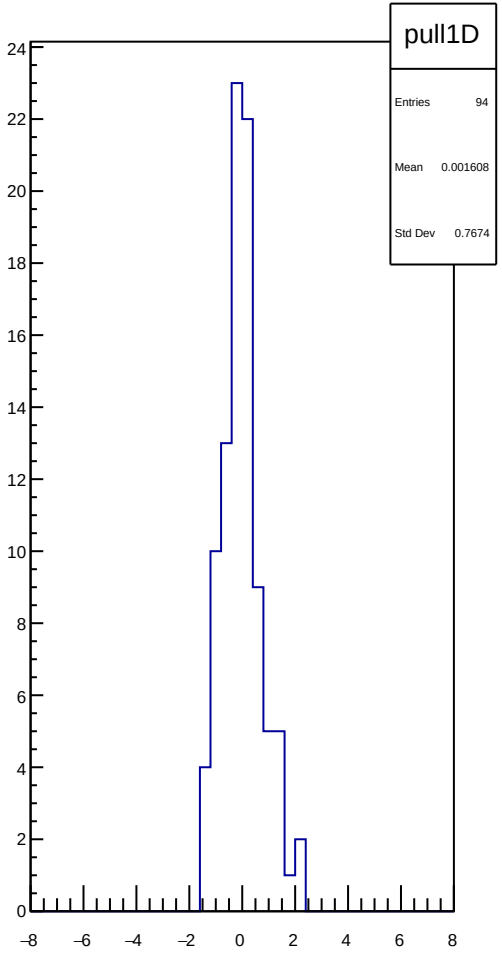

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.44 / 93
p0 −97.46 ± 2.069
pull
Entries 94
Mean −239
Std Dev 0

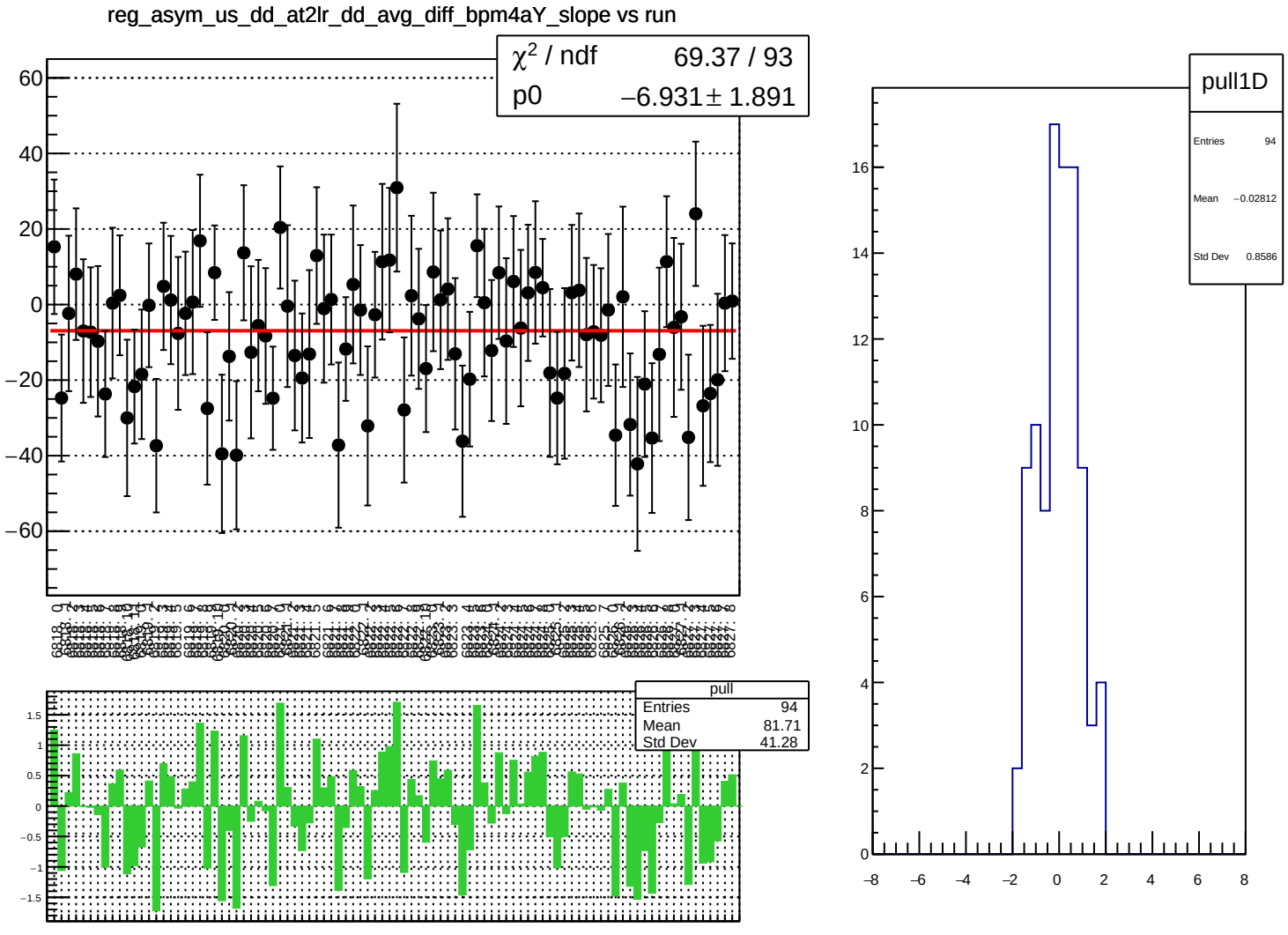

pull1D
Entries 94
Mean 0.002983
Std Dev 0.9365

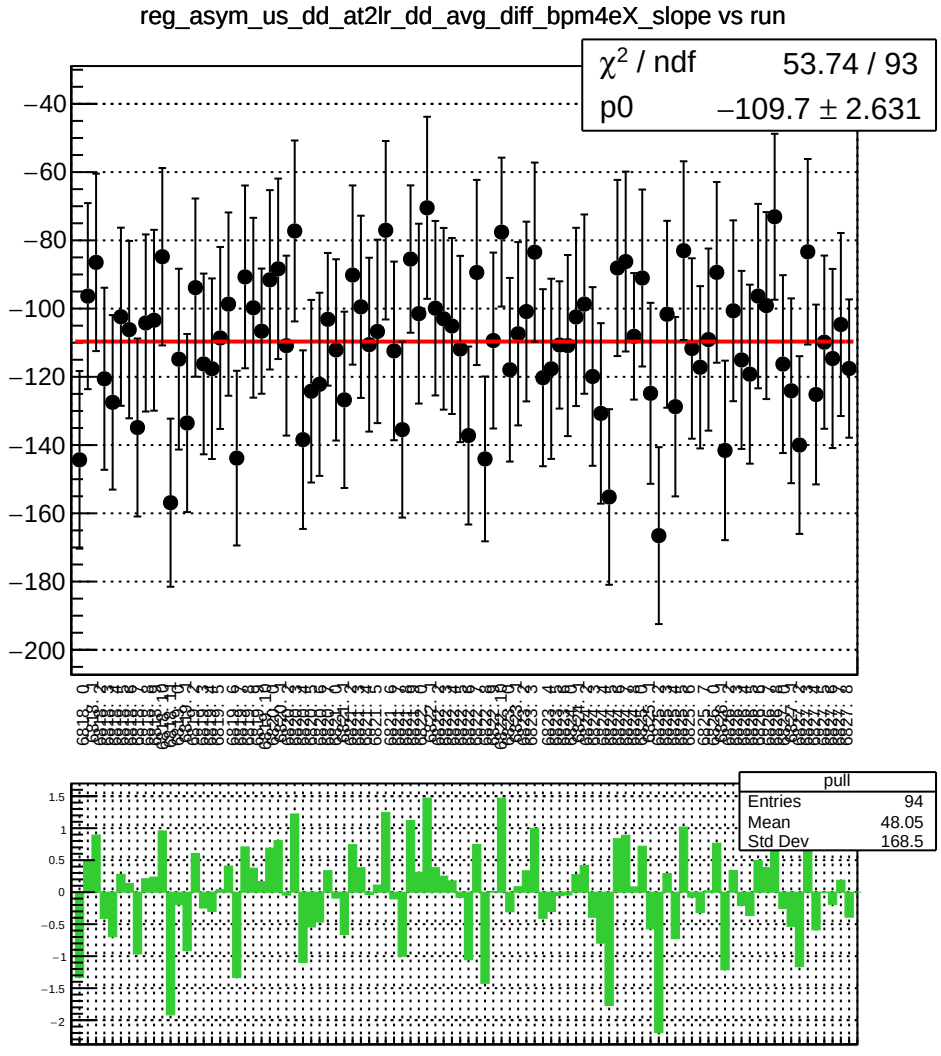

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.73 / 93
p0 8.155 ± 1.719
pull
Entries 94
Mean 79.01
Std Dev 0
pull1D
Entries 94
Mean 0.01086
Std Dev 0.9151

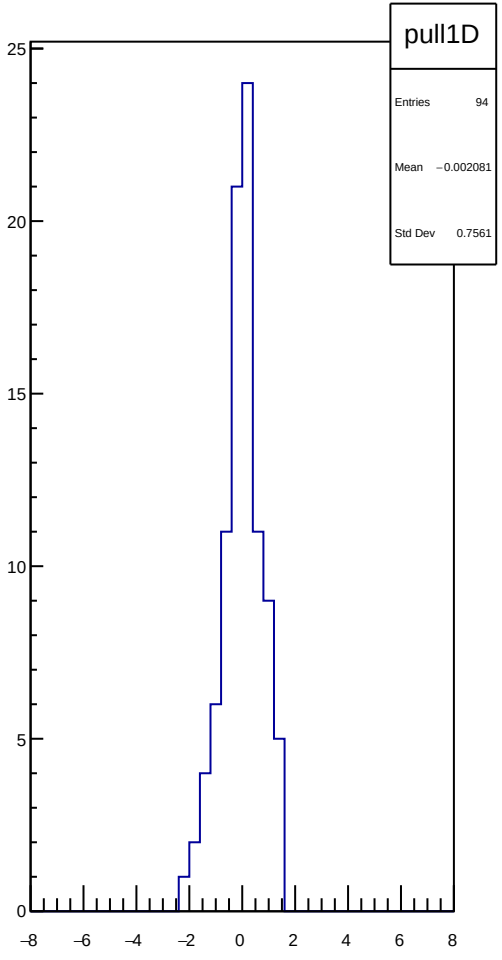

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 77.55 / 93
p0 1.609 ± 0.08384
pull
Entries 94
Mean 213.1
Std Dev 0
pull1D
Entries 94
Mean 0.01173
Std Dev 0.9082

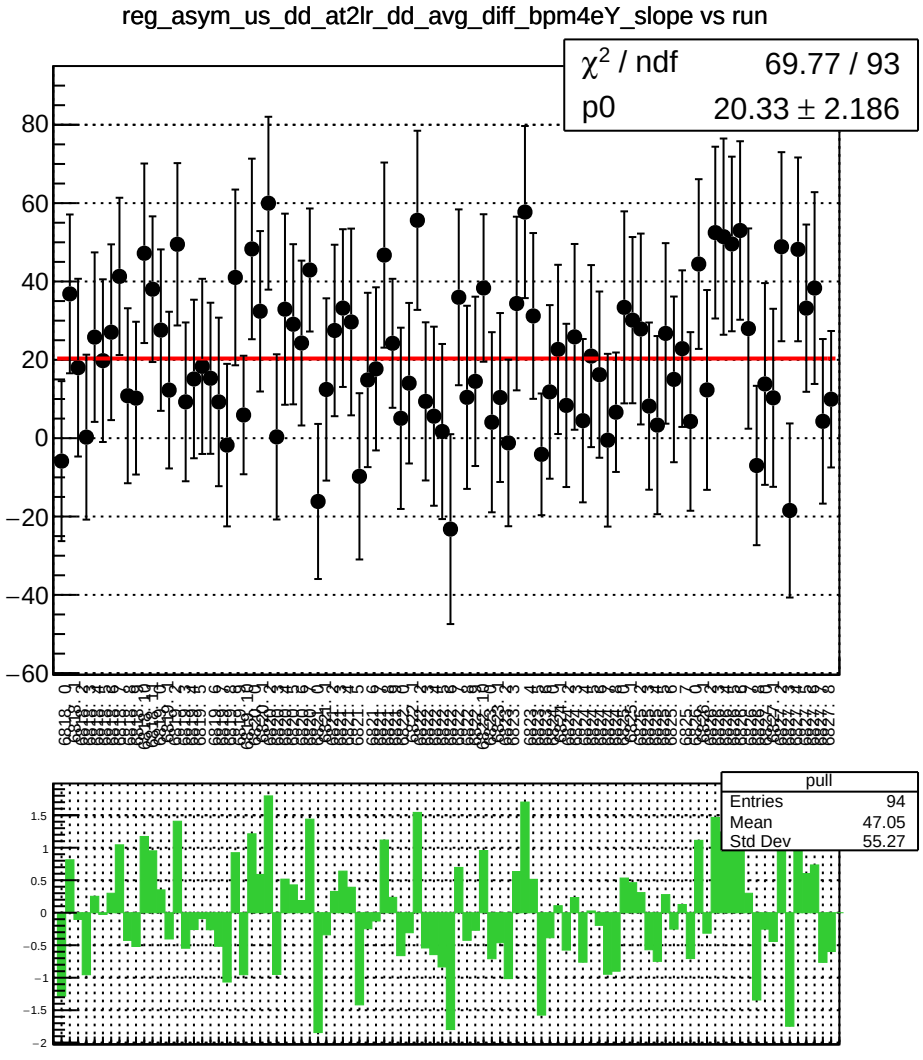

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.35 / 93
p0 −38.69 ± 2.815
pull
Entries 94
Mean 70.11
Std Dev 202.3

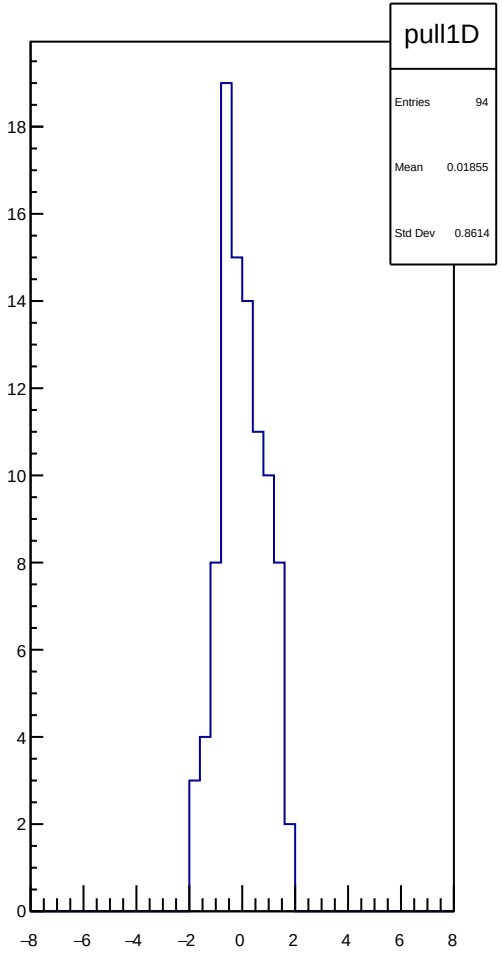

pull1D
Entries 94
Mean 0.001608
Std Dev 0.7674

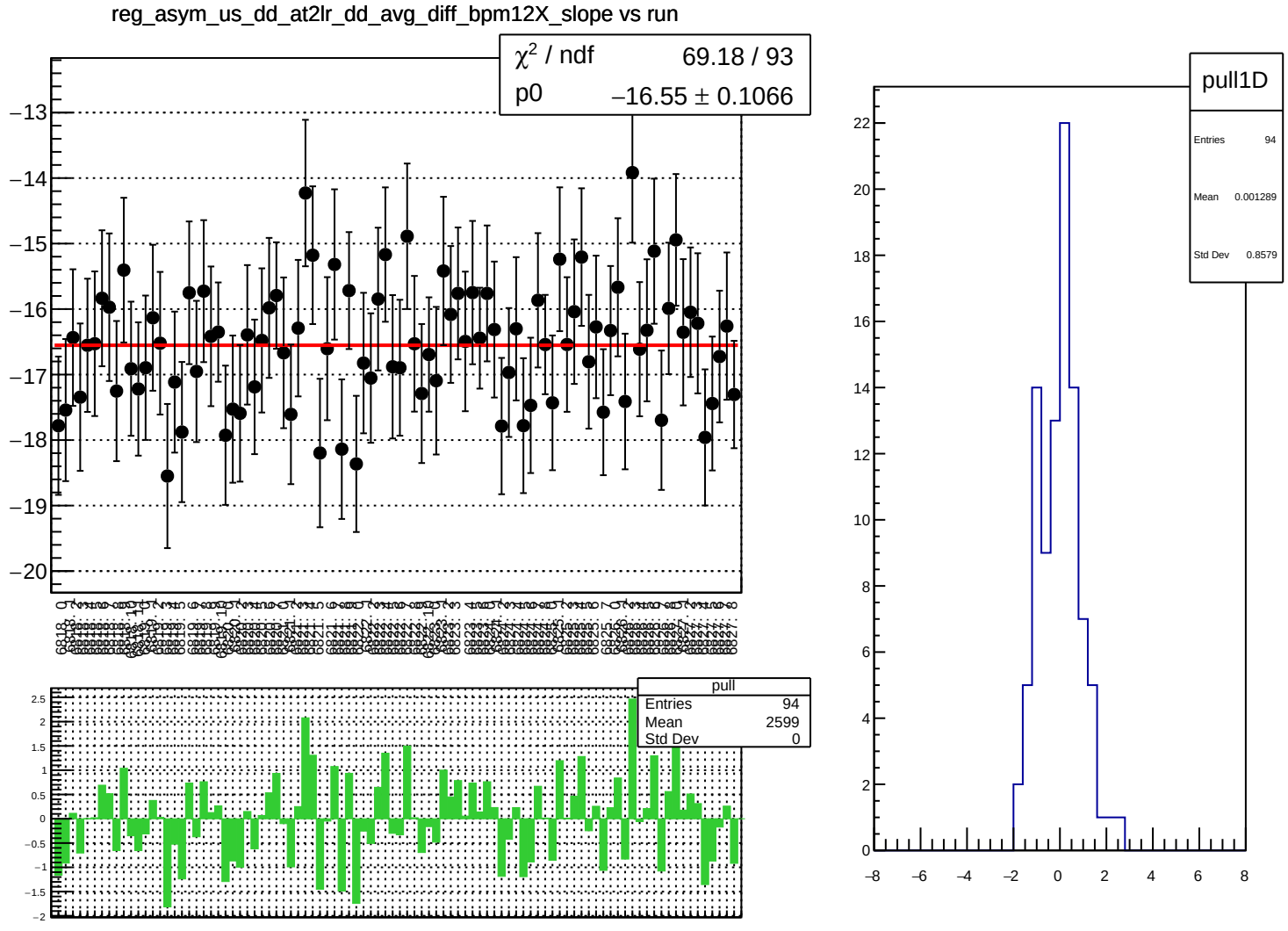

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 69.37 / 93
p0 −6.931 ± 1.891
pull
Entries 94
Mean 81.71
Std Dev 41.28
pull1D
Entries 94
Mean −0.02812
Std Dev 0.8586

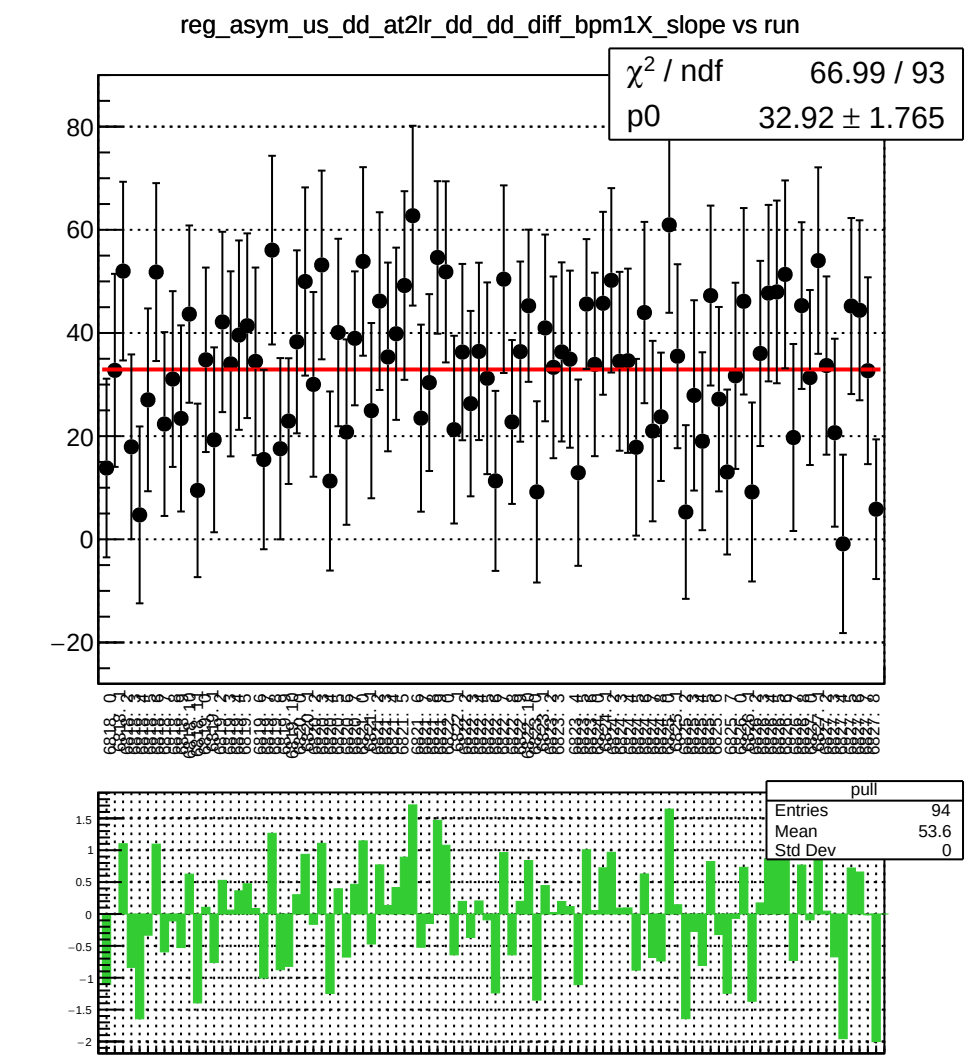

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.74 / 93
p0 −109.7 ± 2.631
pull
Entries 94
Mean 48.05
Std Dev 168.5

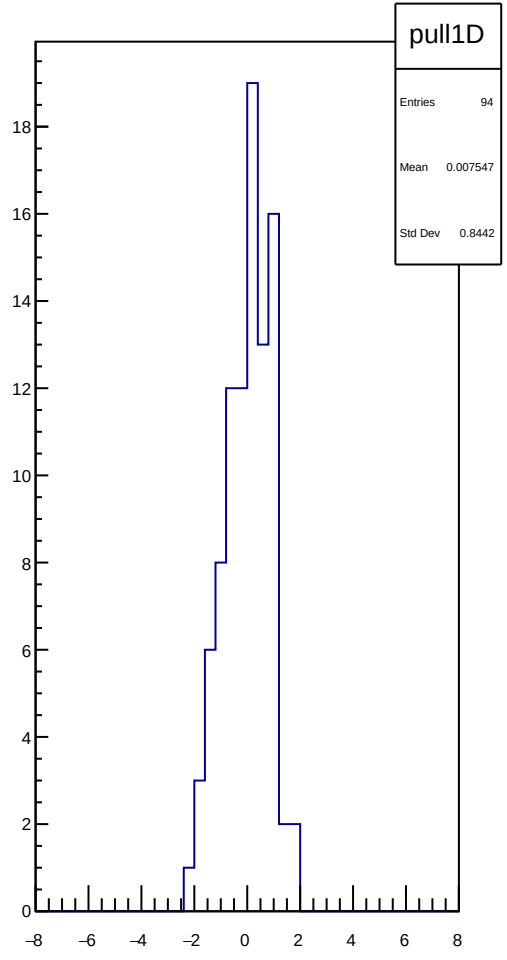

pull1D
Entries 94
Mean −0.002081
Std Dev 0.7561

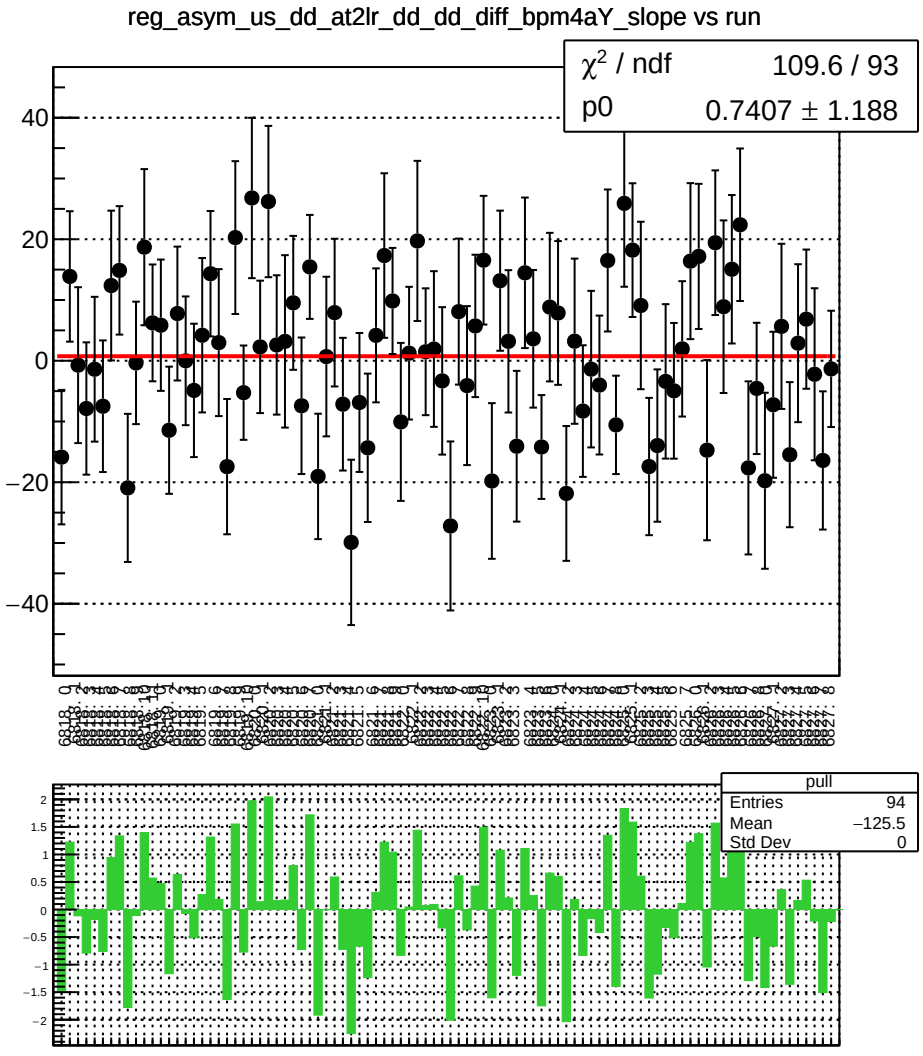

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 69.77 / 93
p0 20.33 ± 2.186
pull
Entries 94
Mean 47.05
Std Dev 55.27

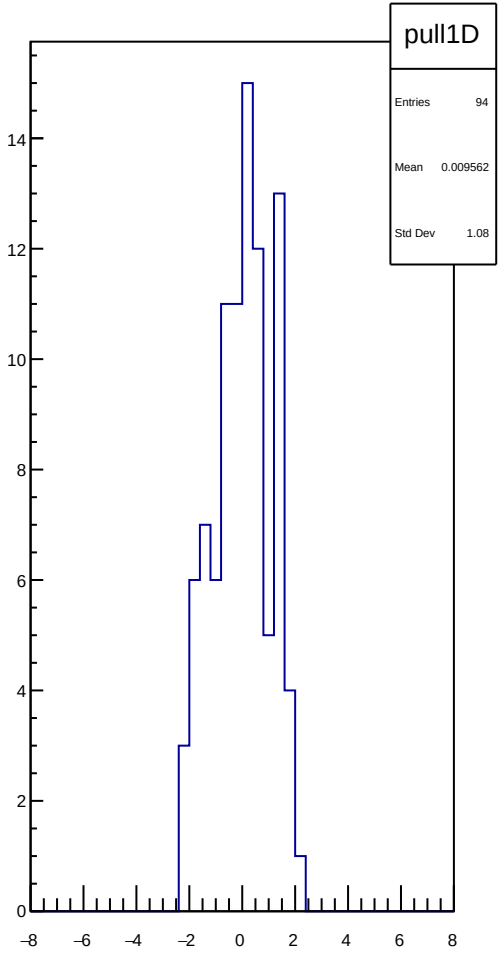

pull1D
Entries 94
Mean 0.01855
Std Dev 0.8614

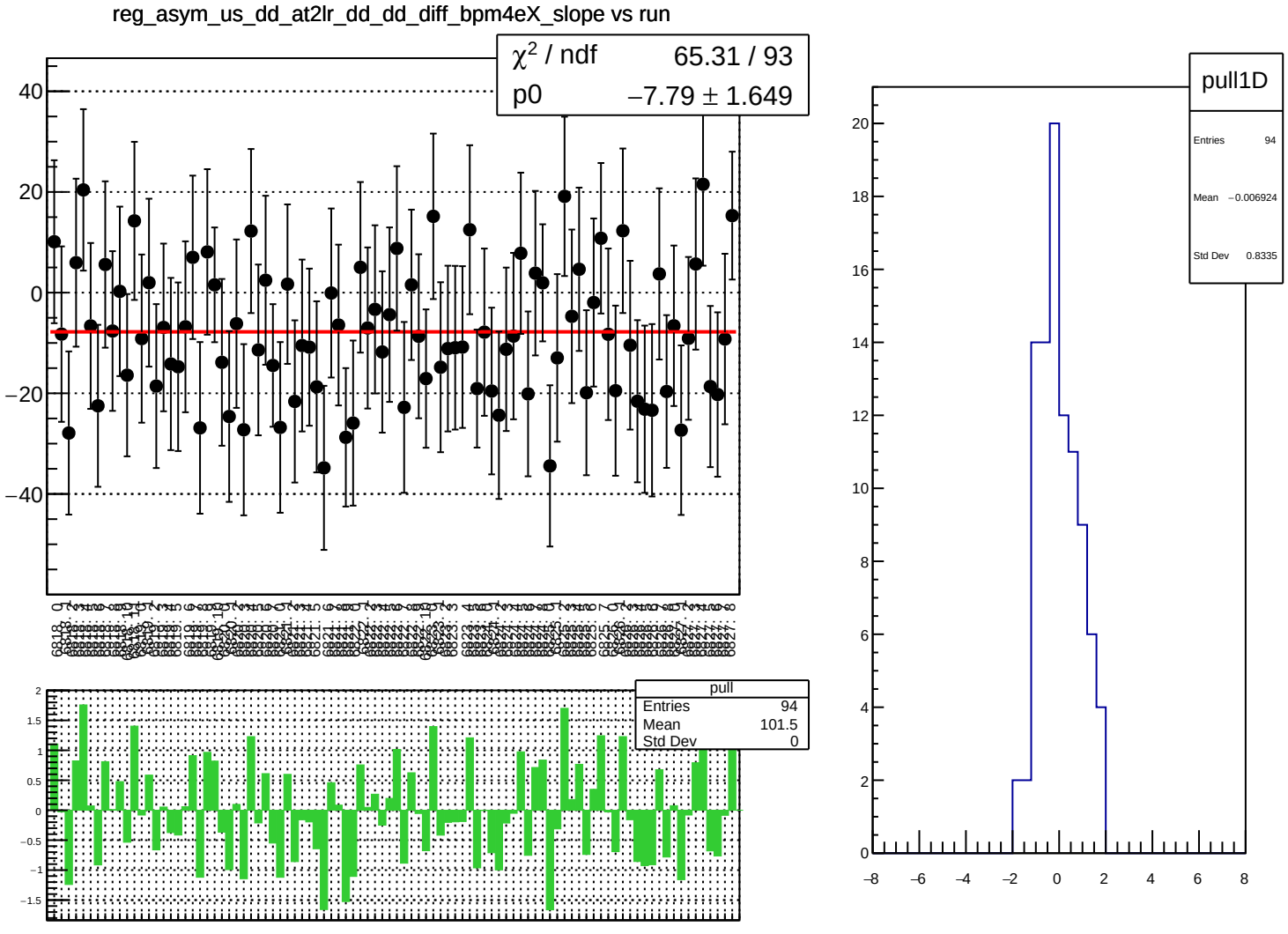

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 69.18 / 93
p0 −16.55 ± 0.1066
pull
Entries 94
Mean 2599
Std Dev 0
pull1D
Entries 94
Mean 0.001289
Std Dev 0.8579

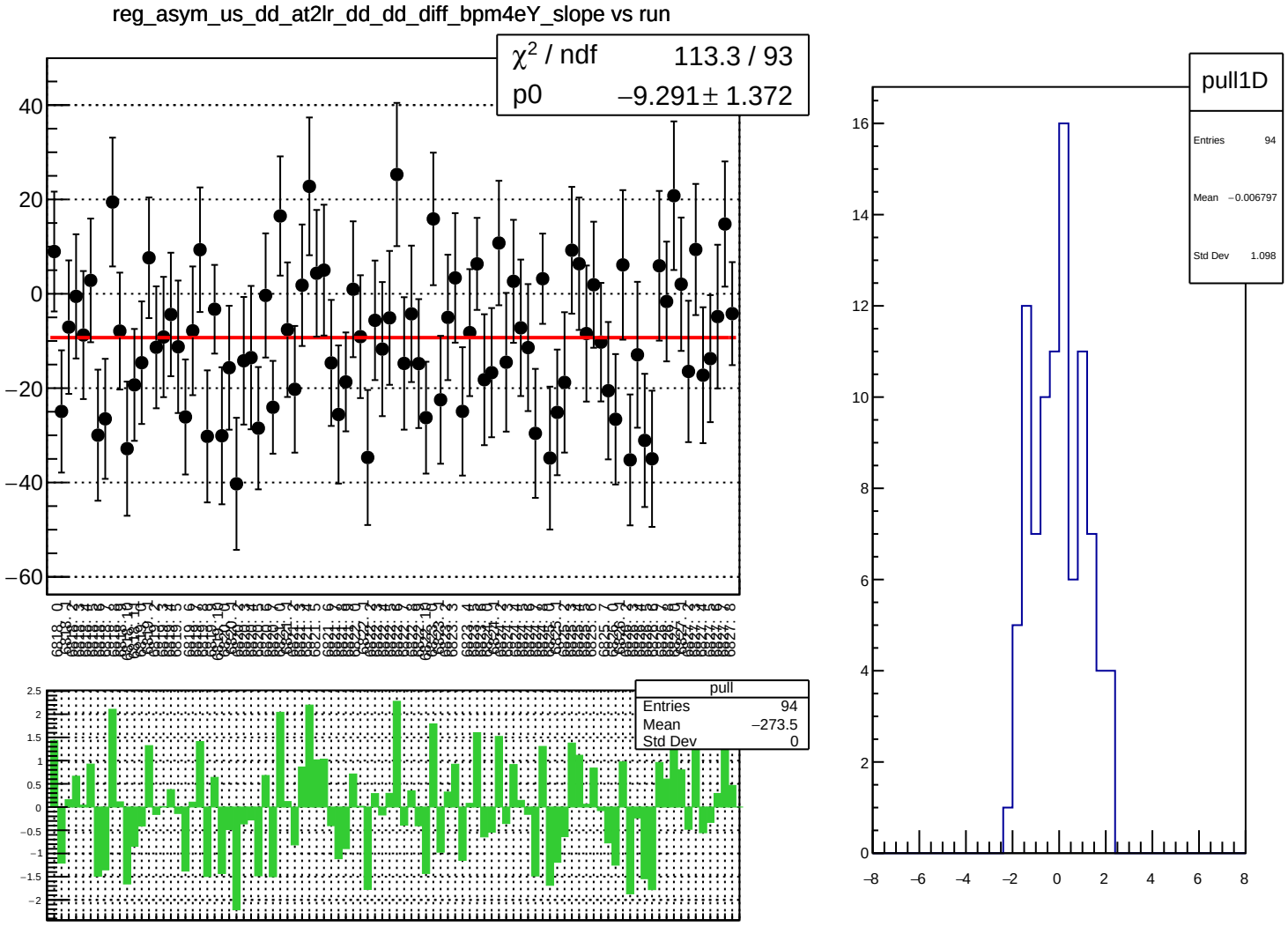

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 66.99 / 93
p0 32.92 ± 1.765
pull
Entries 94
Mean 53.6
Std Dev 0

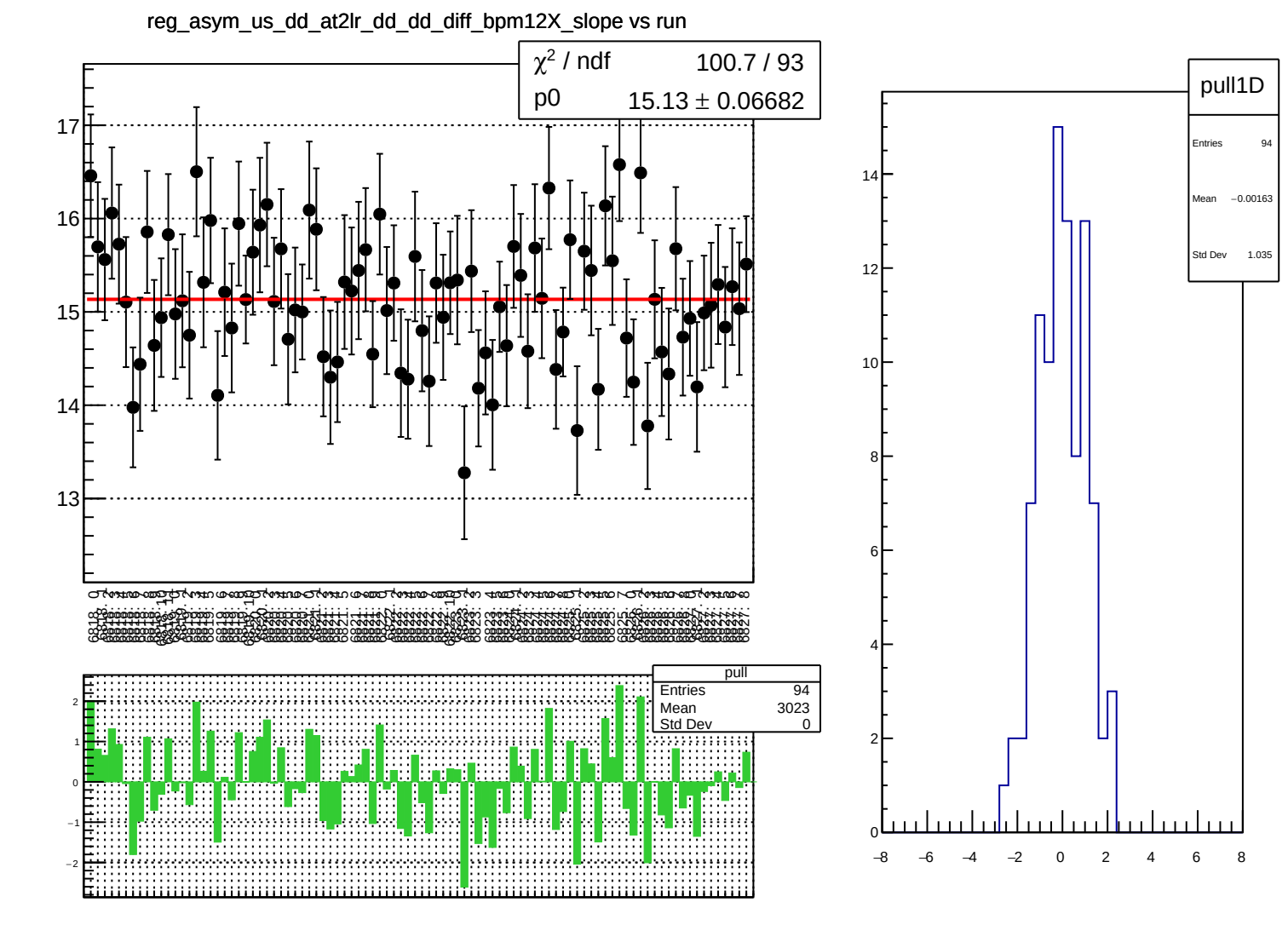

pull1D
Entries 94
Mean 0.007547
Std Dev 0.8442

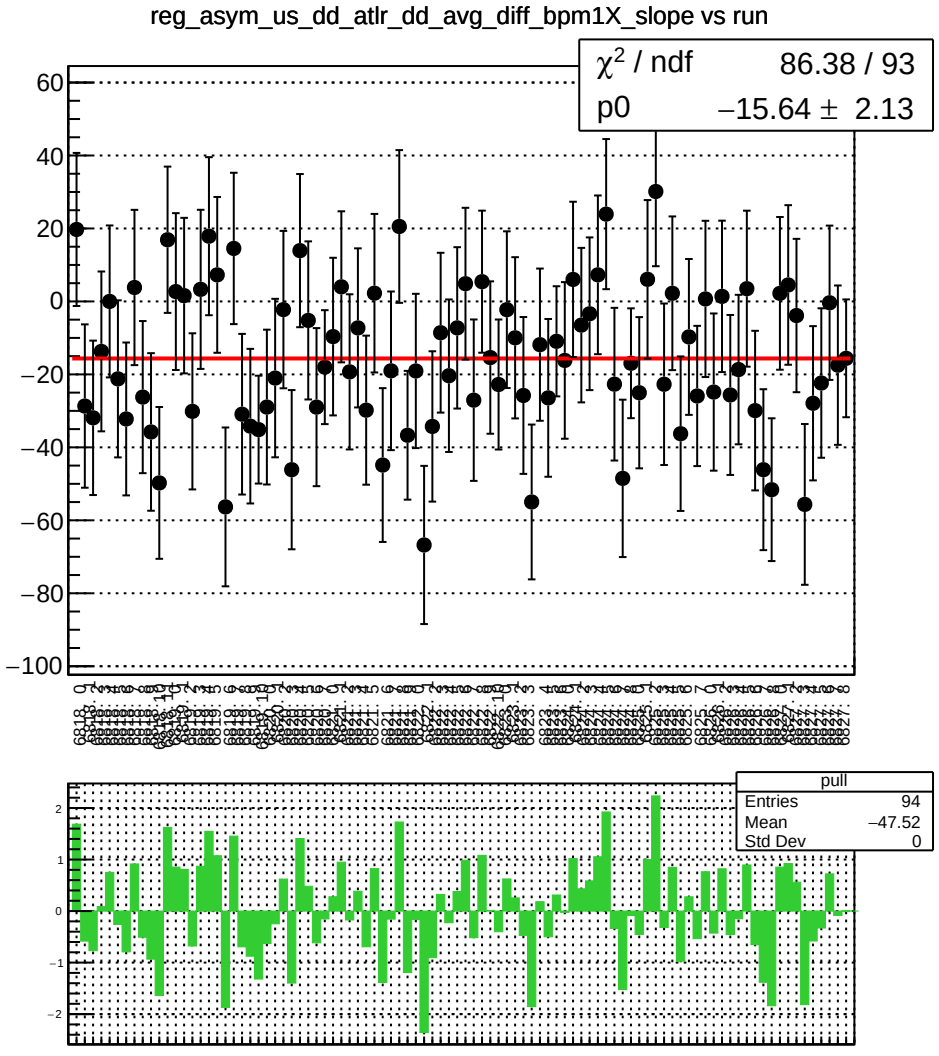

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 109.6 / 93
p0 0.7407 ± 1.188
pull
Entries 94
Mean −125.5
Std Dev 0

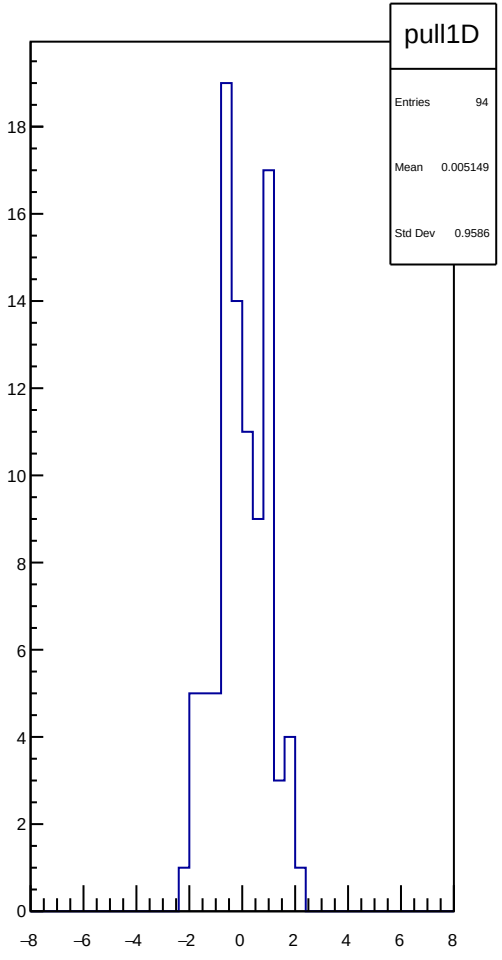

pull1D
Entries 94
Mean 0.009562
Std Dev 1.08

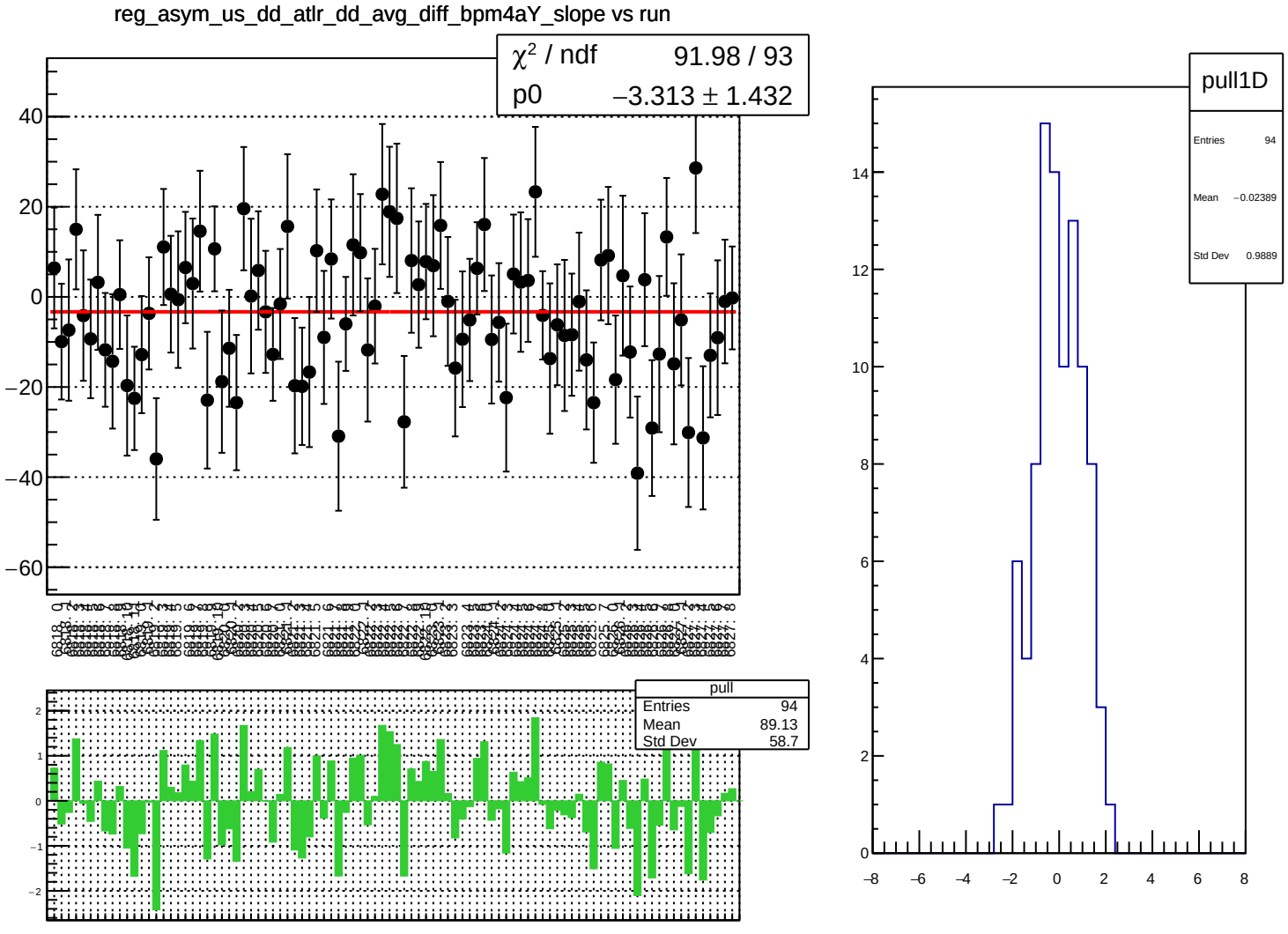

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.31 / 93
p0 −7.79 ± 1.649
pull
Entries 94
Mean 101.5
Std Dev 0
pull1D
Entries 94
Mean −0.006924
Std Dev 0.8335

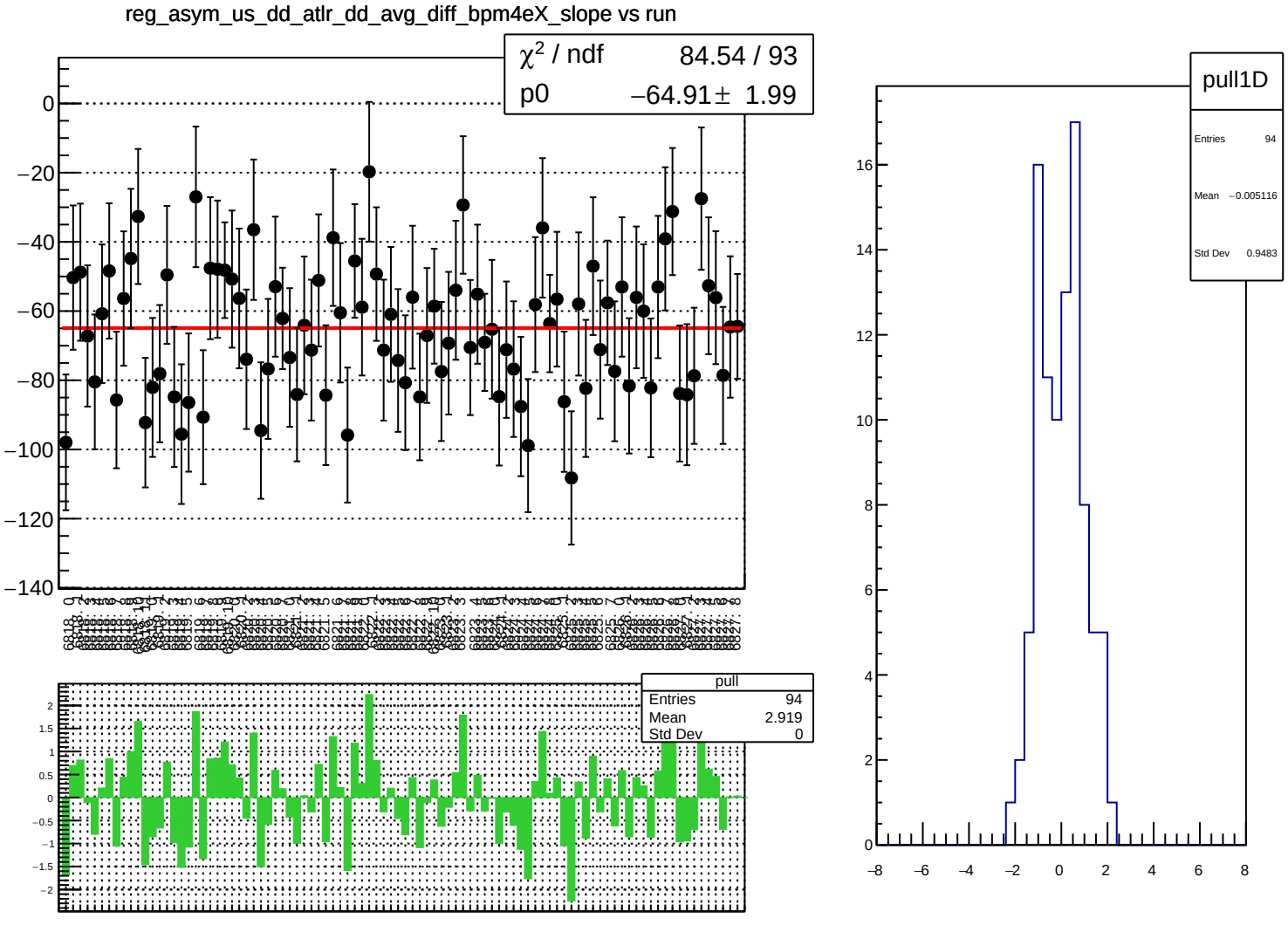

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 113.3 / 93
p0 −9.291 ± 1.372
pull
Entries 94
Mean −273.5
Std Dev 0
pull1D
Entries 94
Mean −0.006797
Std Dev 1.098

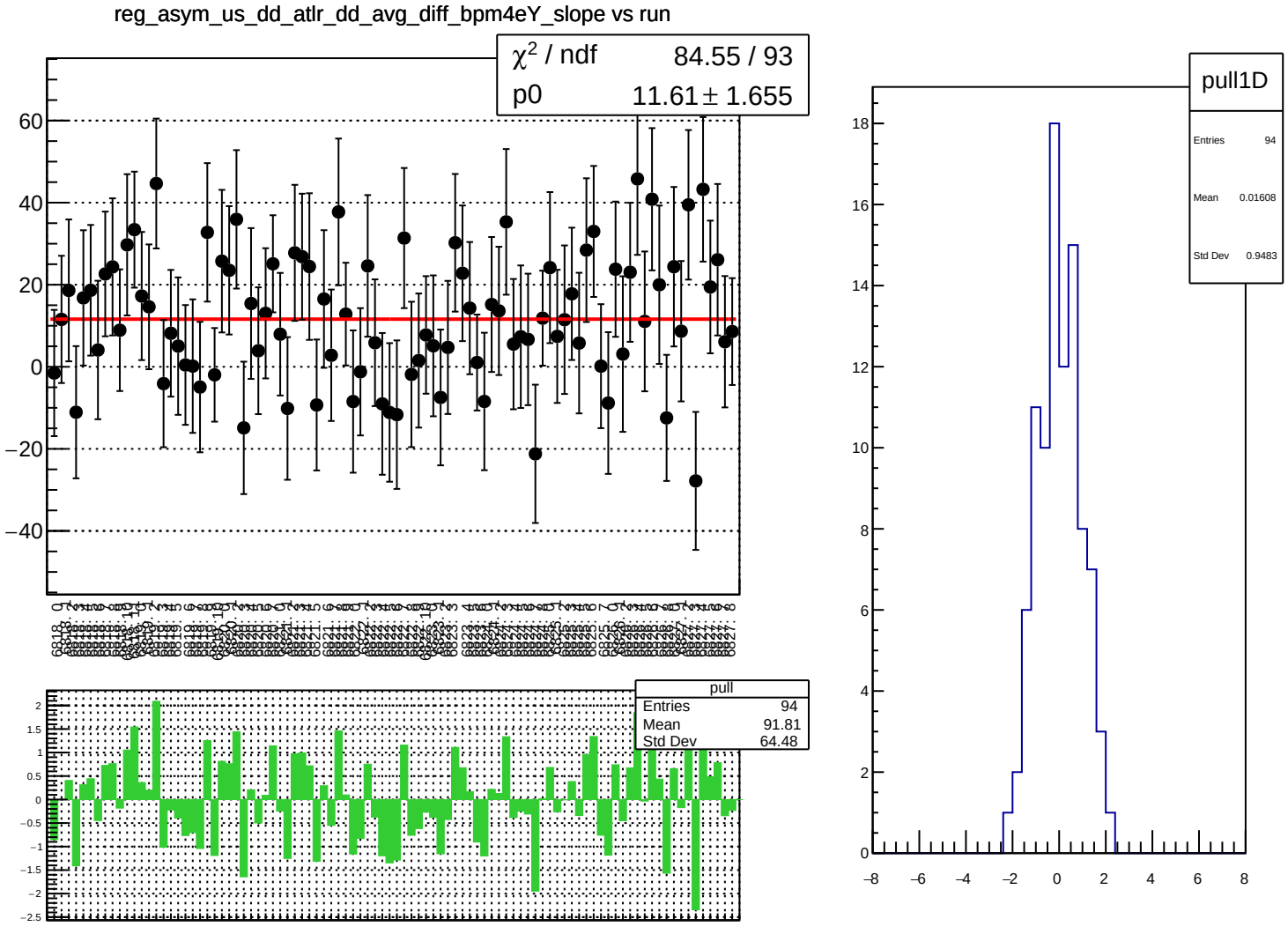

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 100.7 / 93
p0 15.13 ± 0.06682
pull
Entries 94
Mean 3023
Std Dev 0
pull1D
Entries 94
Mean −0.00163
Std Dev 1.035

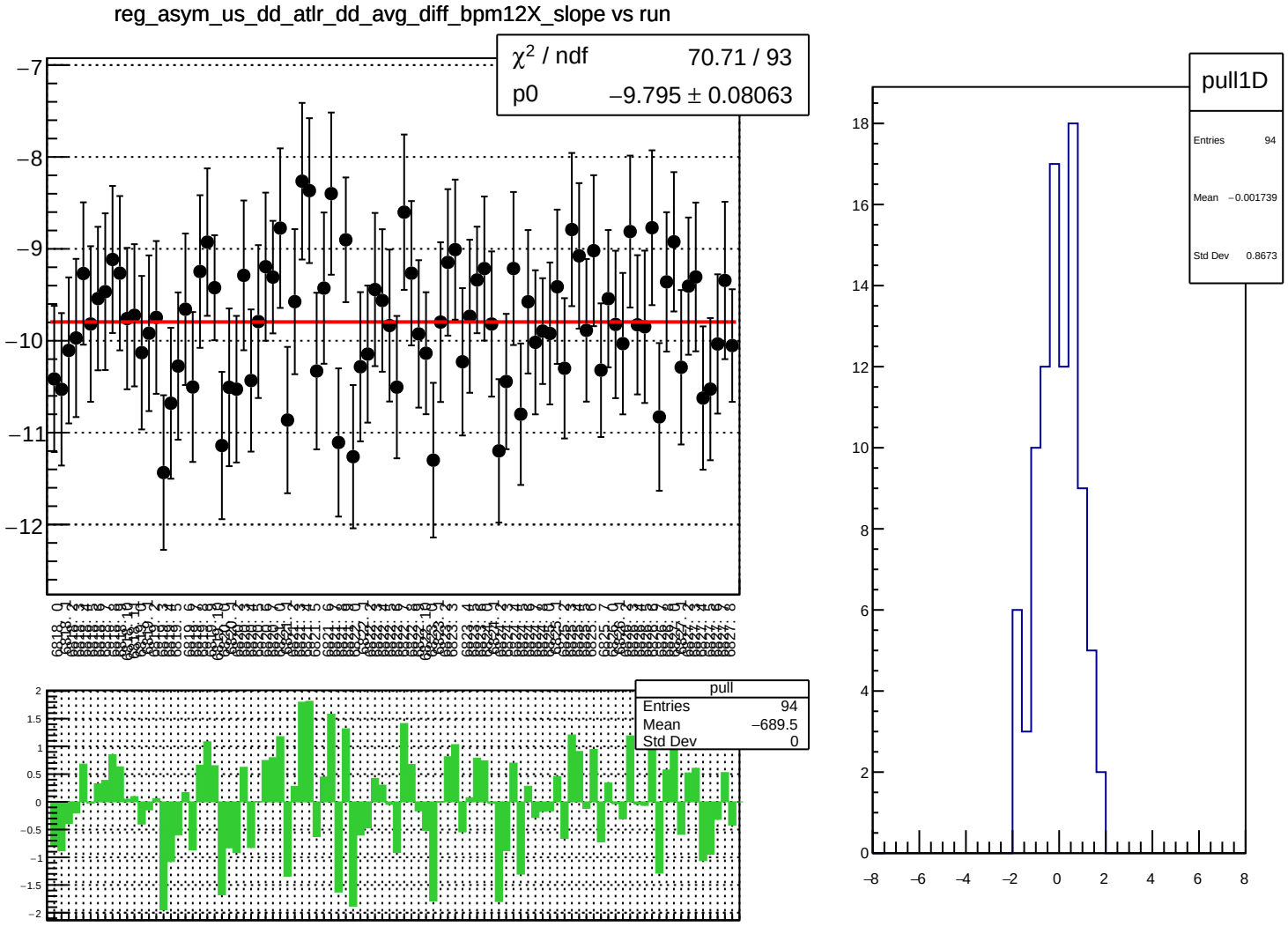

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 86.38 / 93
p0 −15.64 ± 2.13
pull
Entries 94
Mean −47.52
Std Dev 0

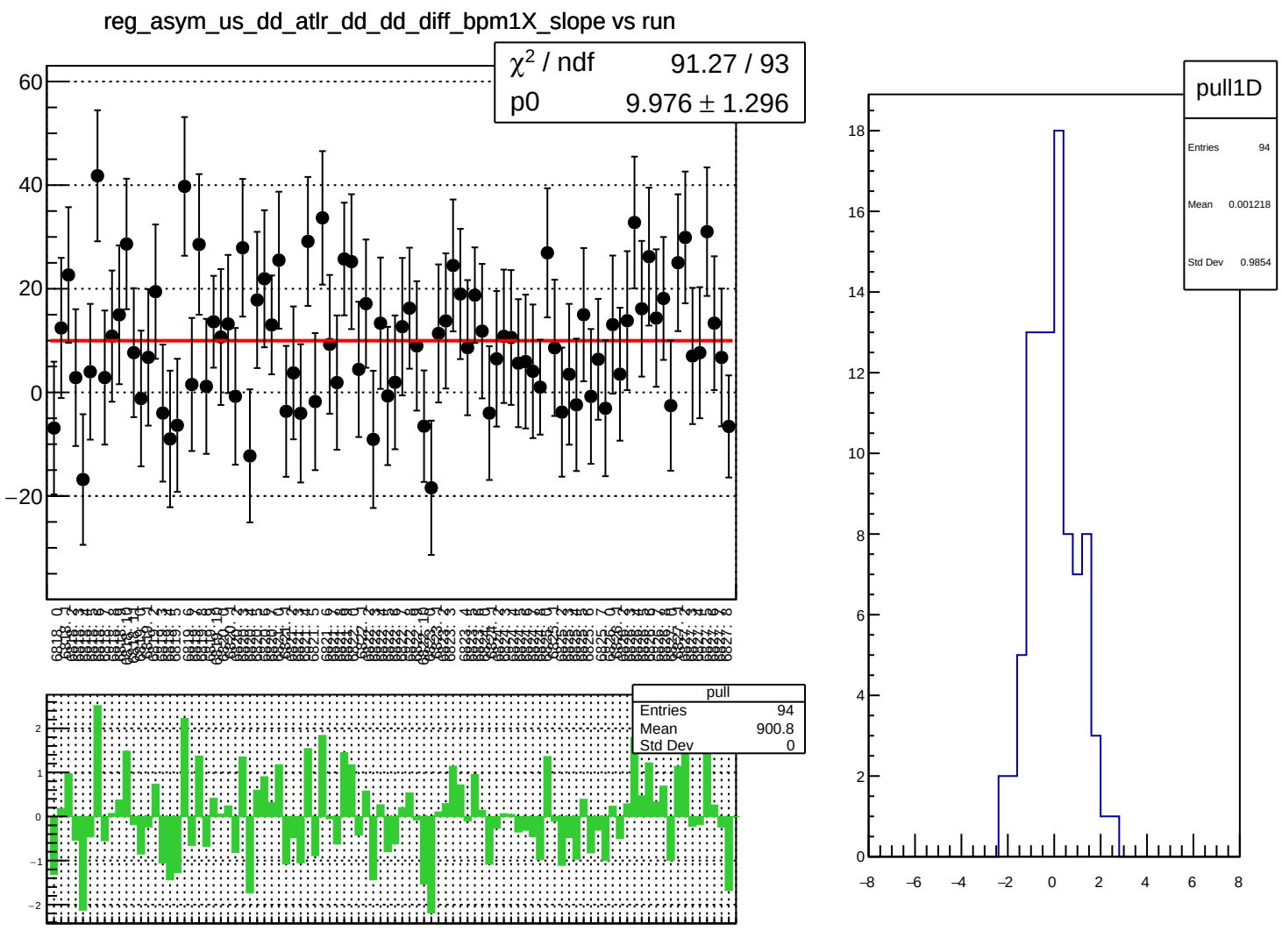

pull1D
Entries 94
Mean 0.005149
Std Dev 0.9586

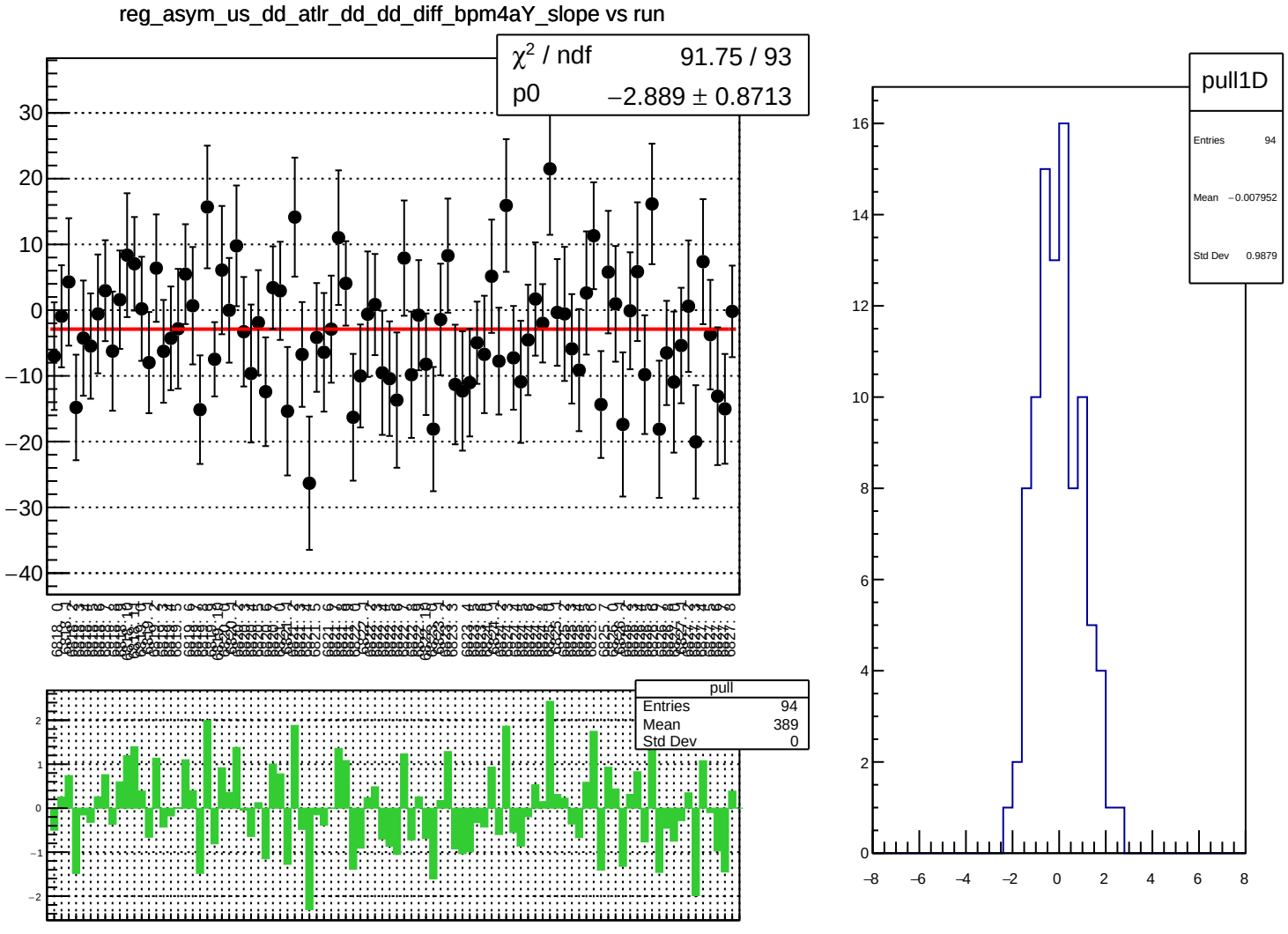

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 91.98 / 93
p0 −3.313 ± 1.432
pull
Entries 94
Mean 89.13
Std Dev 58.7
pull1D
Entries 94
Mean −0.02389
Std Dev 0.9889

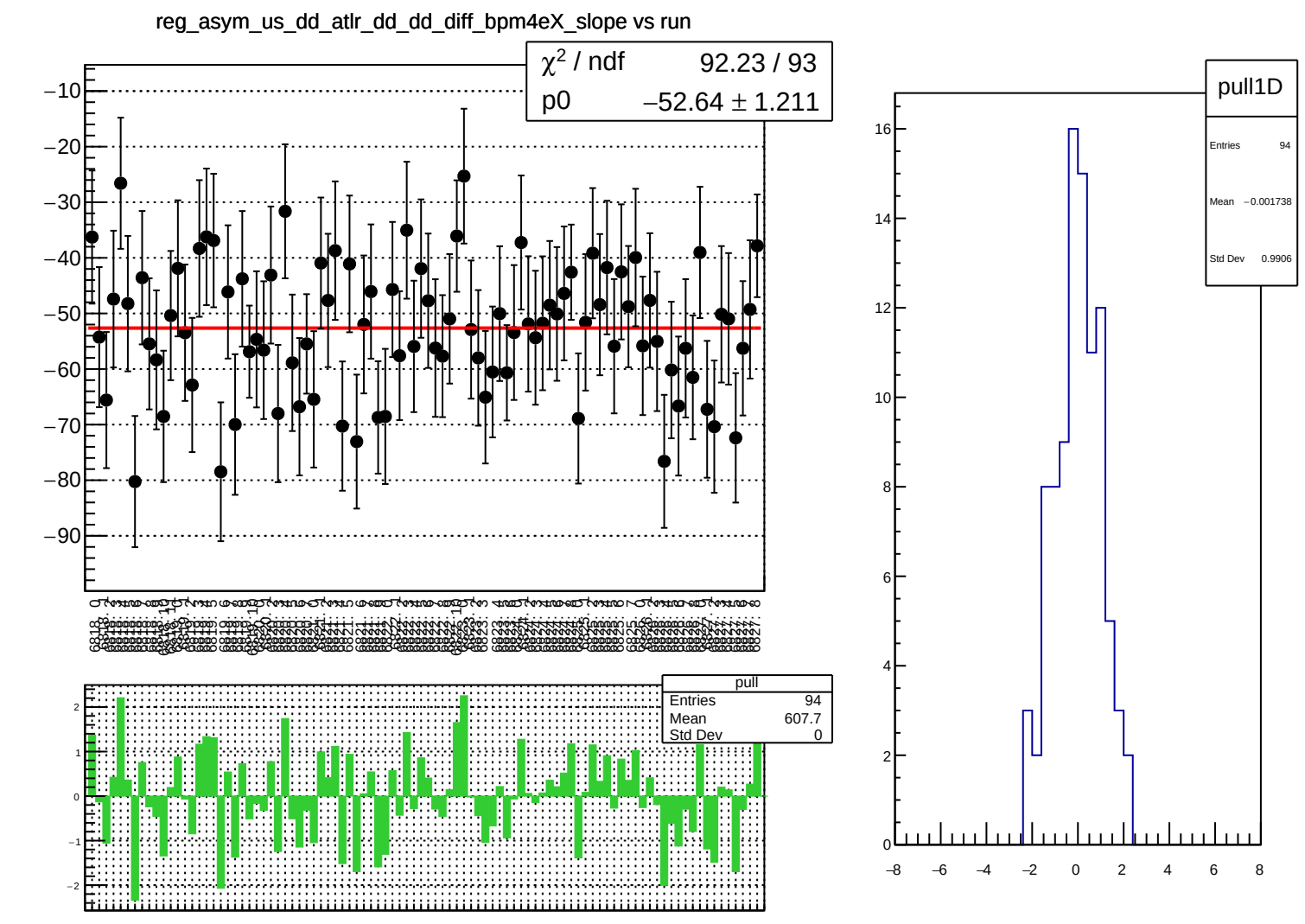

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.54 / 93
p0 −64.91 ± 1.99
pull
Entries 94
Mean 2.919
Std Dev 0
pull1D
Entries 94
Mean −0.005116
Std Dev 0.9483

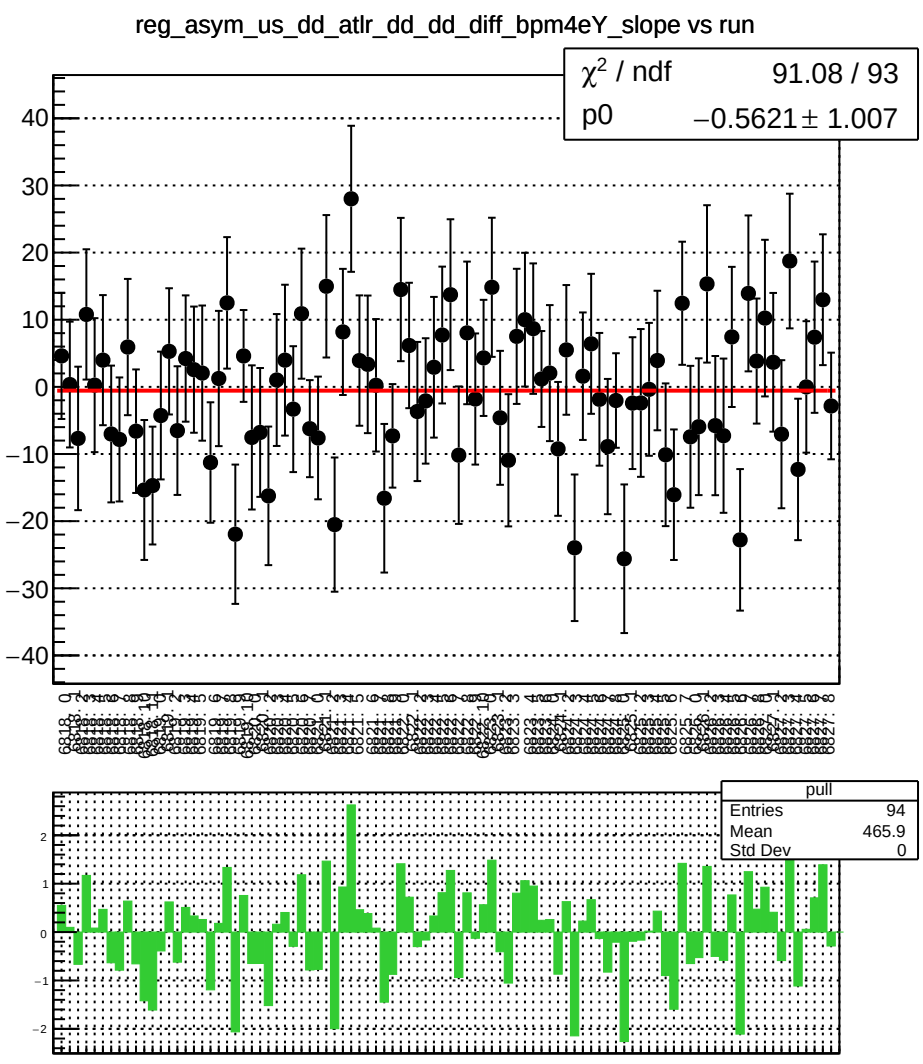

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 84.55 / 93
p0 11.61 ± 1.655
pull
Entries 94
Mean 91.81
Std Dev 64.48
pull1D
Entries 94
Mean 0.01608
Std Dev 0.9483

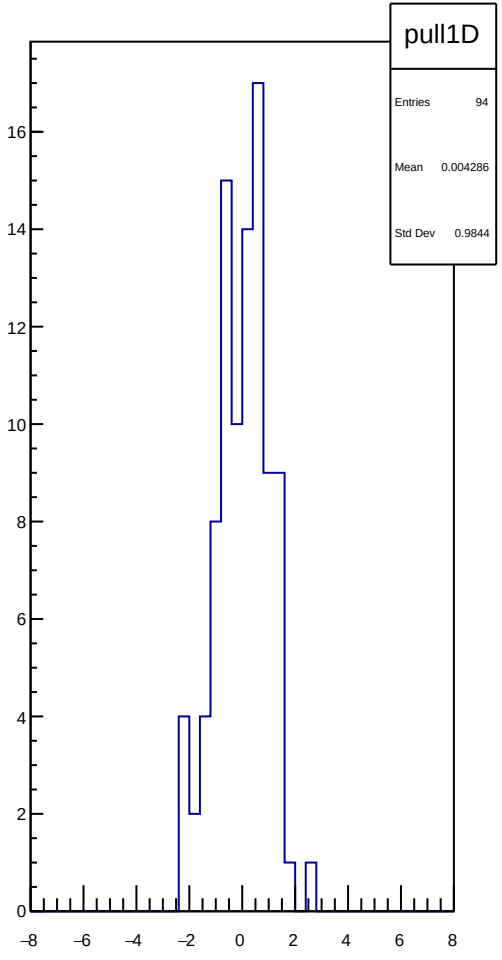

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 70.71 / 93
p0 −9.795 ± 0.08063
pull
Entries 94
Mean −689.5
Std Dev 0
pull1D
Entries 94
Mean −0.001739
Std Dev 0.8673

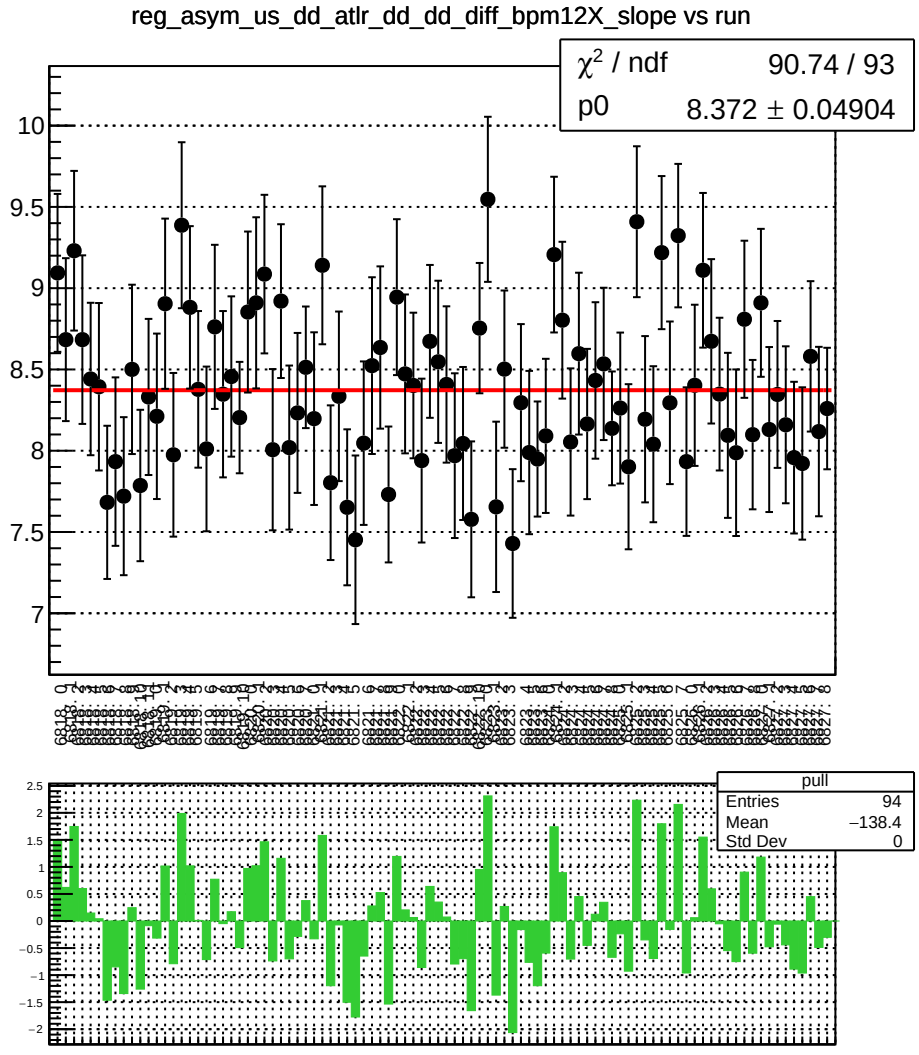

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 91.27 / 93
p0 9.976 ± 1.296
pull
Entries 94
Mean 900.8
Std Dev 0
pull1D
Entries 94
Mean 0.001218
Std Dev 0.9854

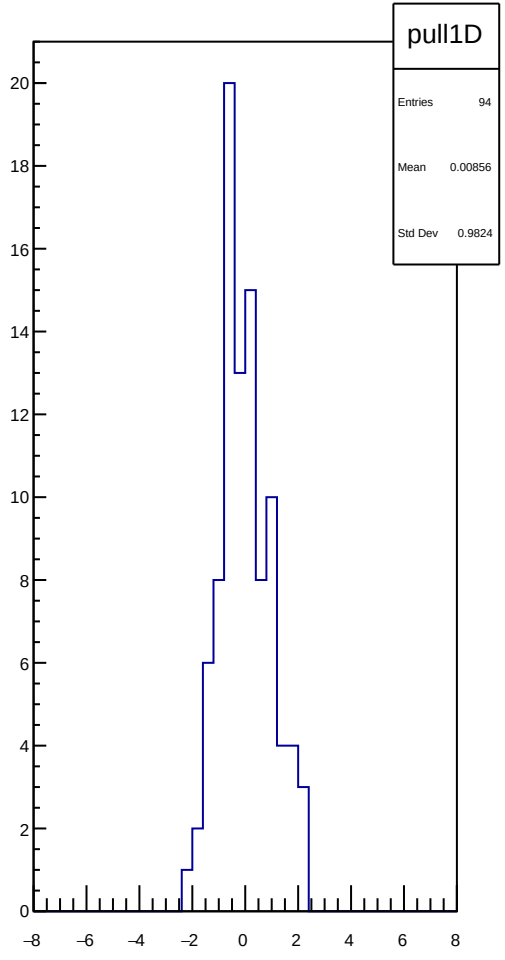

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.75 / 93
p0 −2.889 ± 0.8713
pull
Entries 94
Mean 389
Std Dev 0
pull1D
Entries 94
Mean −0.007952
Std Dev 0.9879

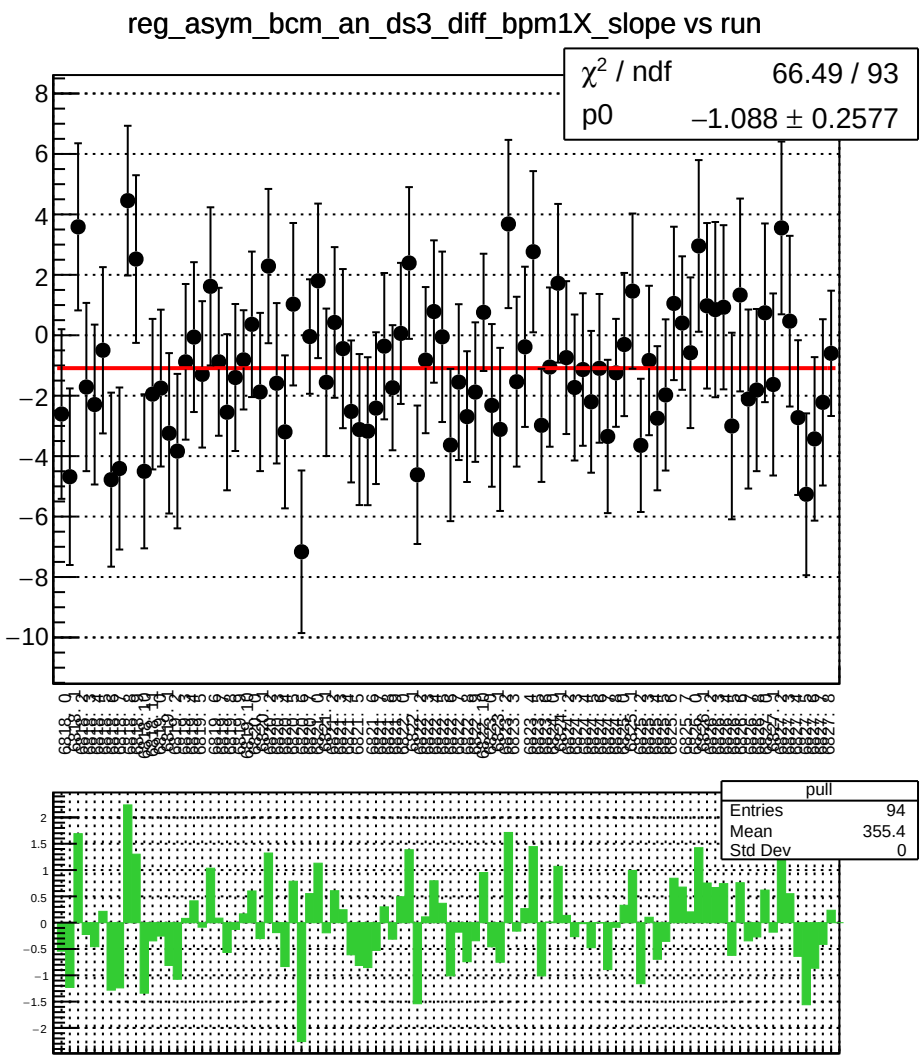

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.23 / 93
p0 −52.64 ± 1.211
pull
Entries 94
Mean 607.7
Std Dev 0
pull1D
Entries 94
Mean −0.001738
Std Dev 0.9906

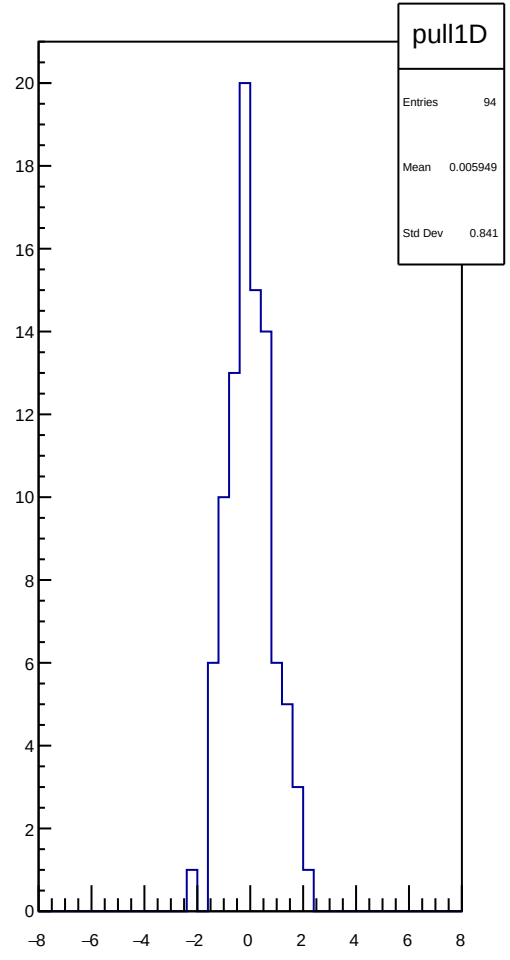

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 91.08 / 93
p0 −0.5621 ± 1.007
pull
Entries 94
Mean 465.9
Std Dev 0

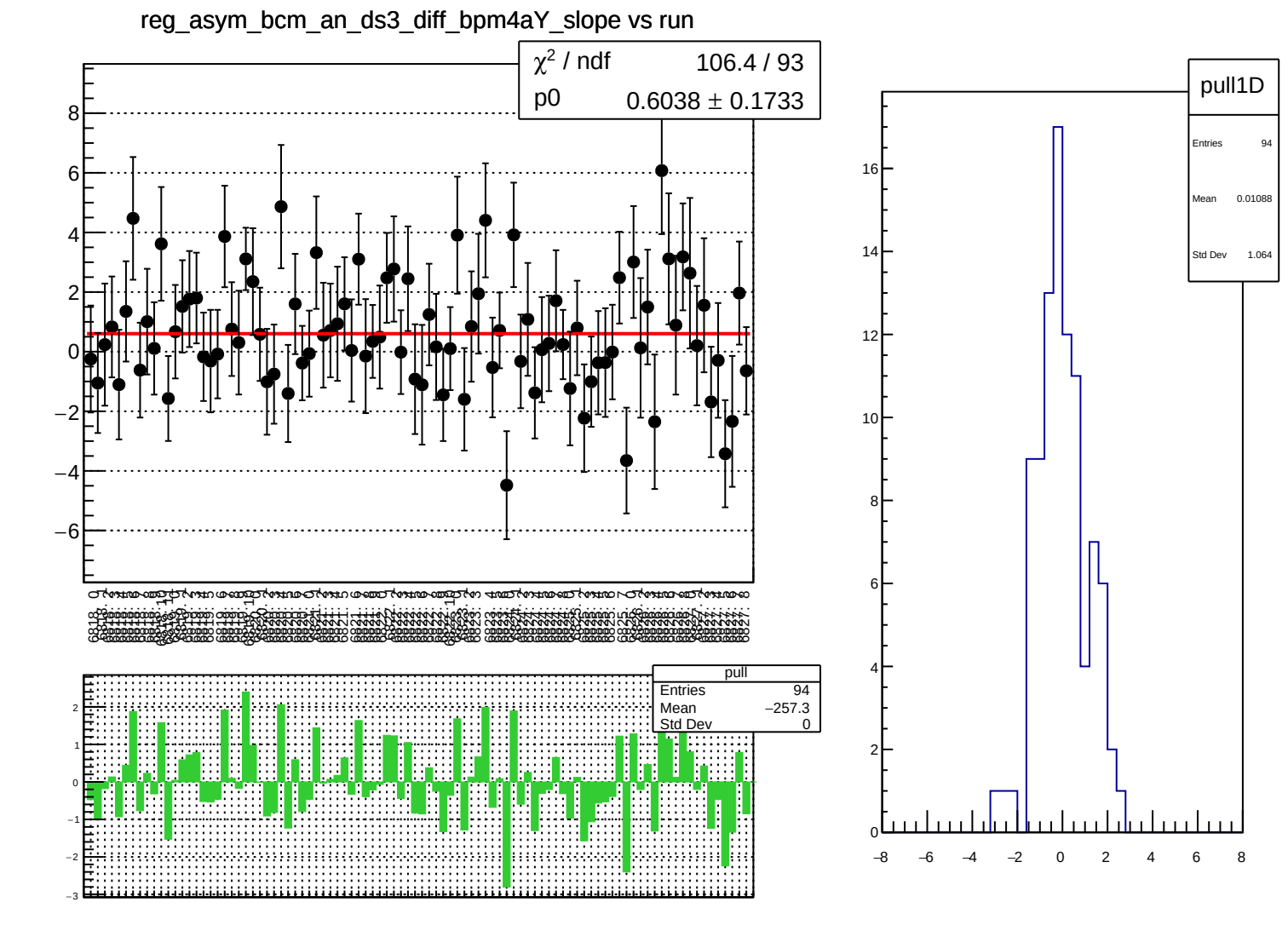

pull1D
Entries 94
Mean 0.004286
Std Dev 0.9844

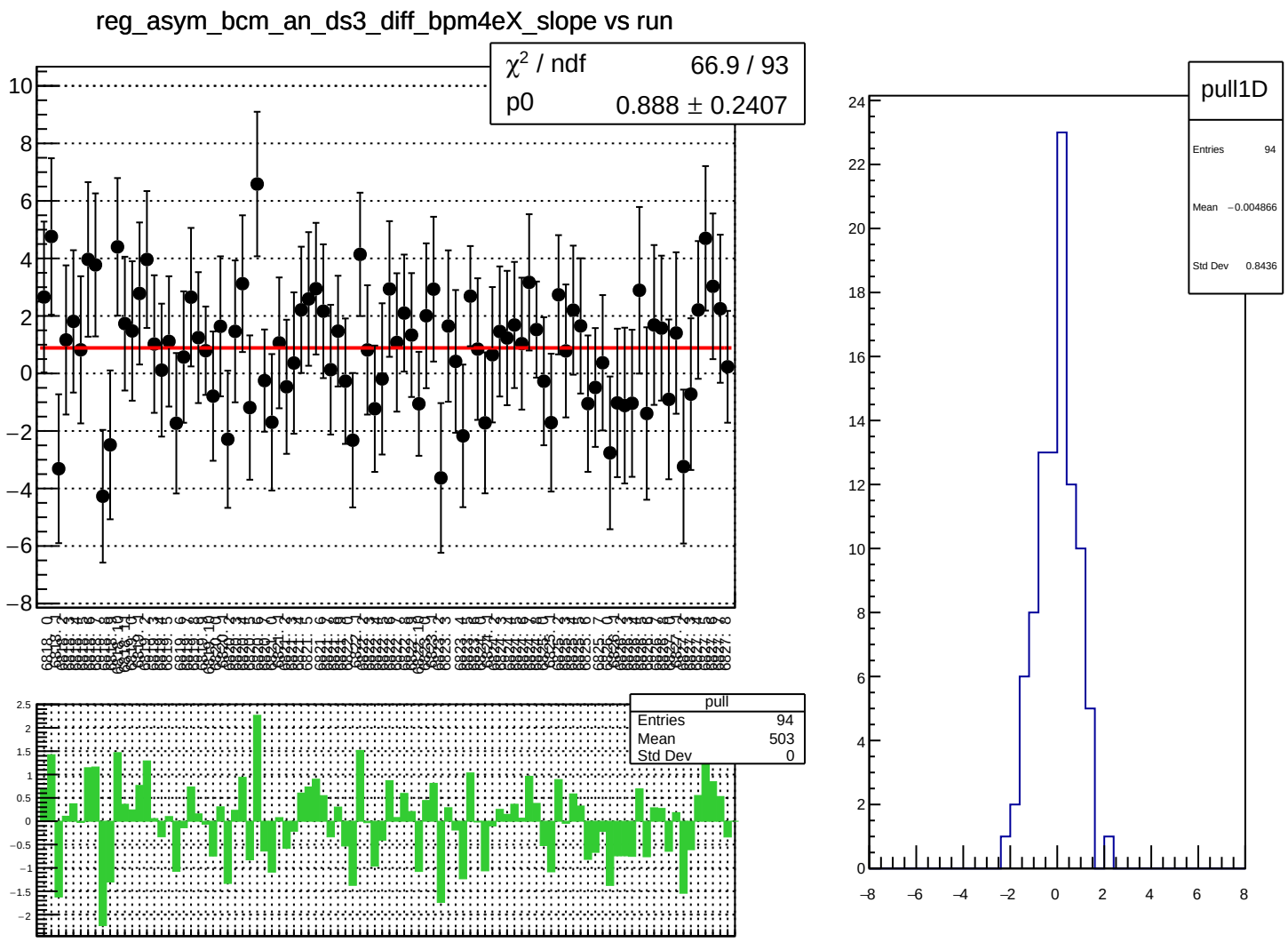

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 90.74 / 93
p0 8.372 ± 0.04904
pull
Entries 94
Mean −138.4
Std Dev 0

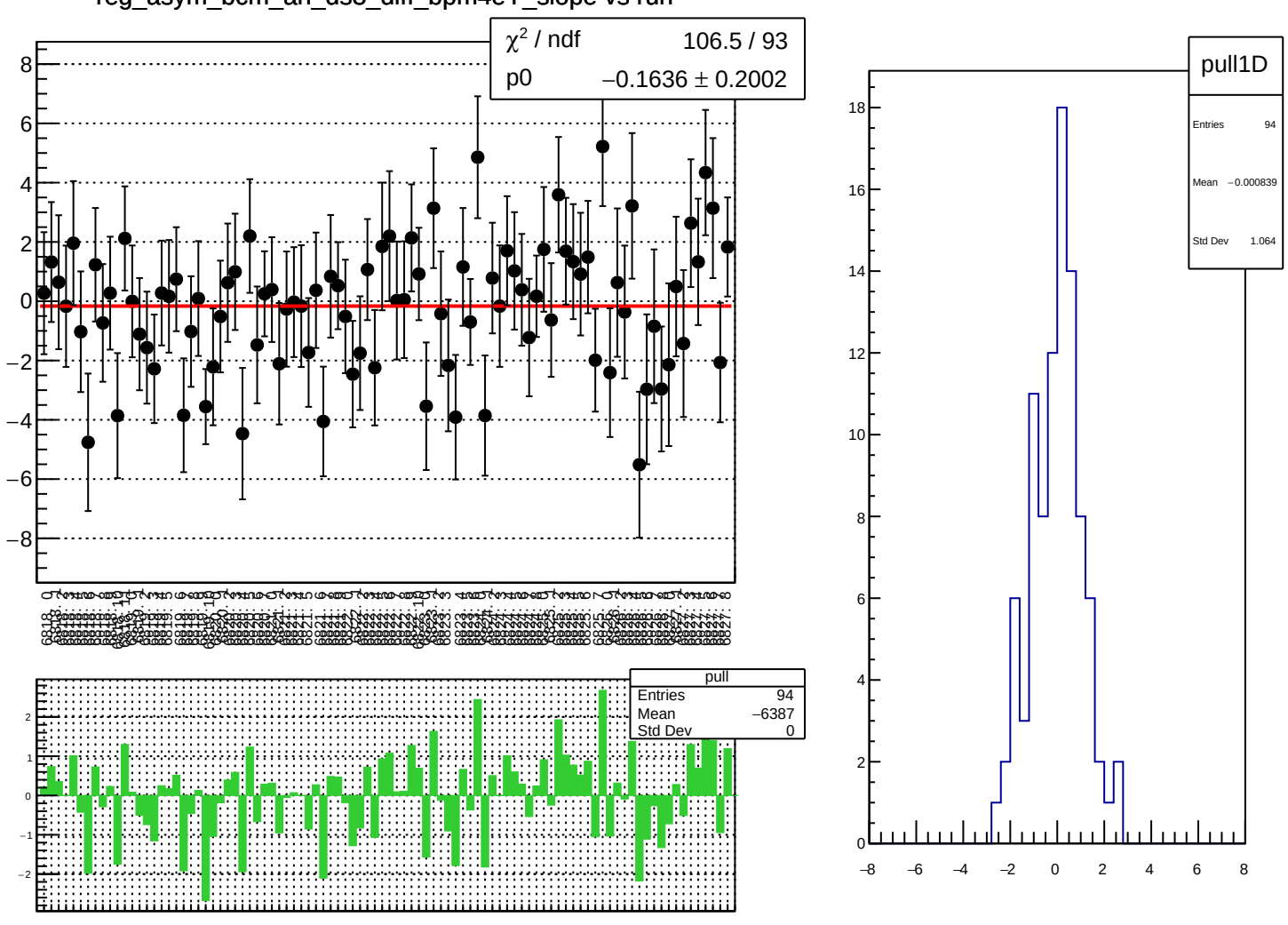

pull1D
Entries 94
Mean 0.00856
Std Dev 0.9824

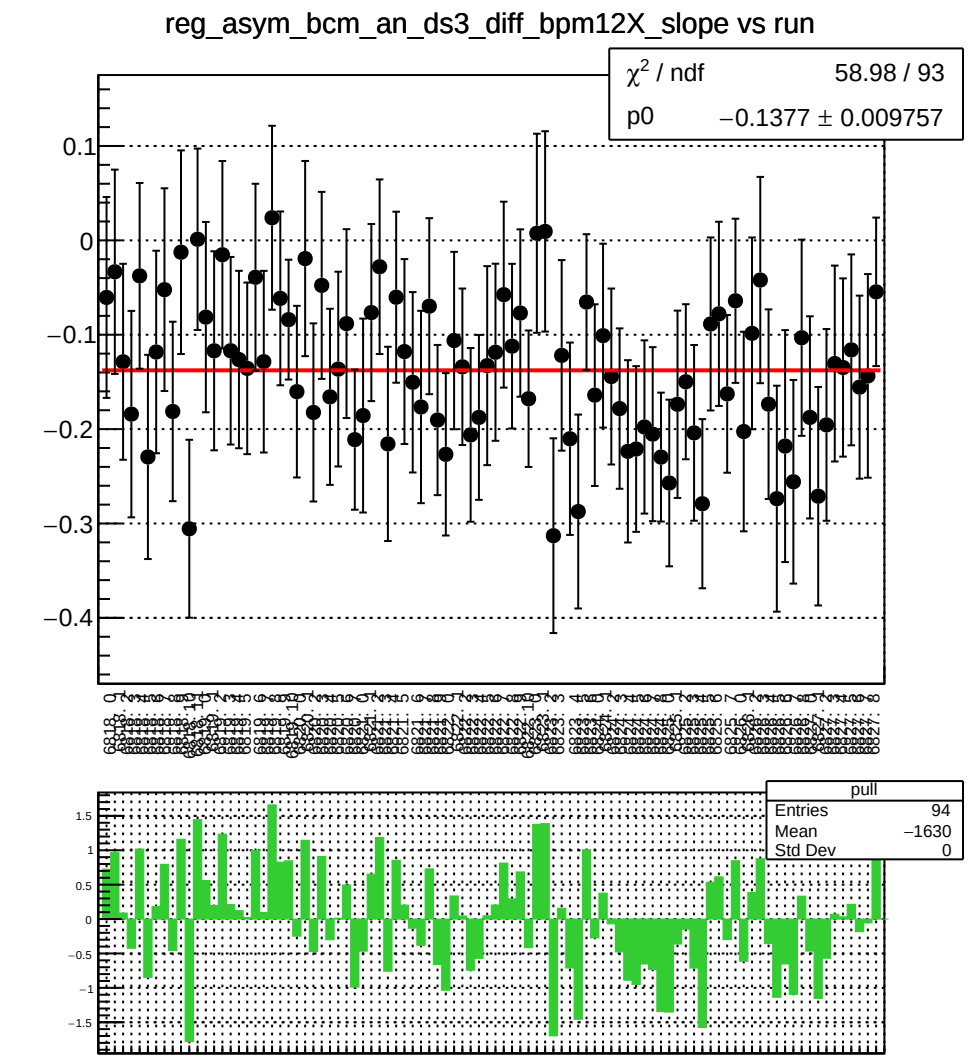

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 66.49 / 93
p0 −1.088 ± 0.2577
pull
Entries 94
Mean 355.4
Std Dev 0

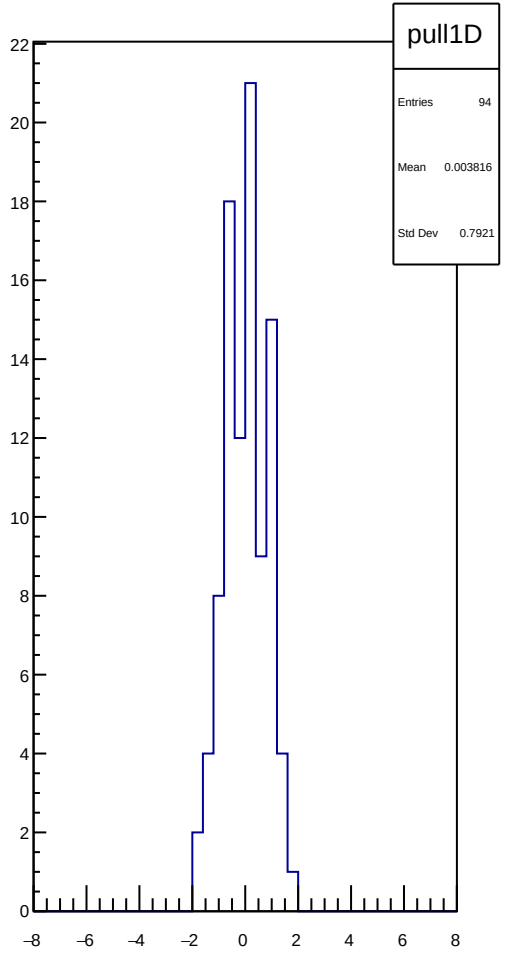

pull1D
Entries 94
Mean 0.005949
Std Dev 0.841

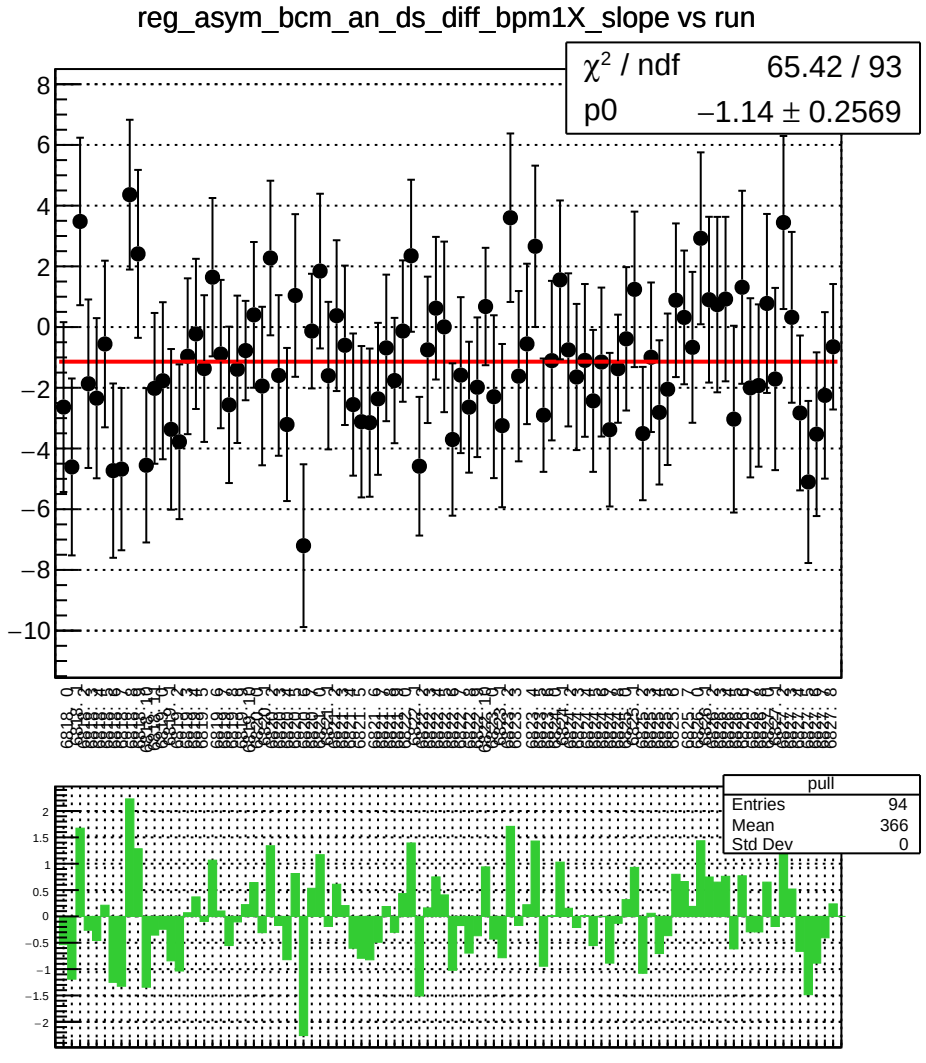

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 106.4 / 93
p0 0.6038 ± 0.1733
pull
Entries 94
Mean −257.3
Std Dev 0
pull1D
Entries 94
Mean 0.01088
Std Dev 1.064

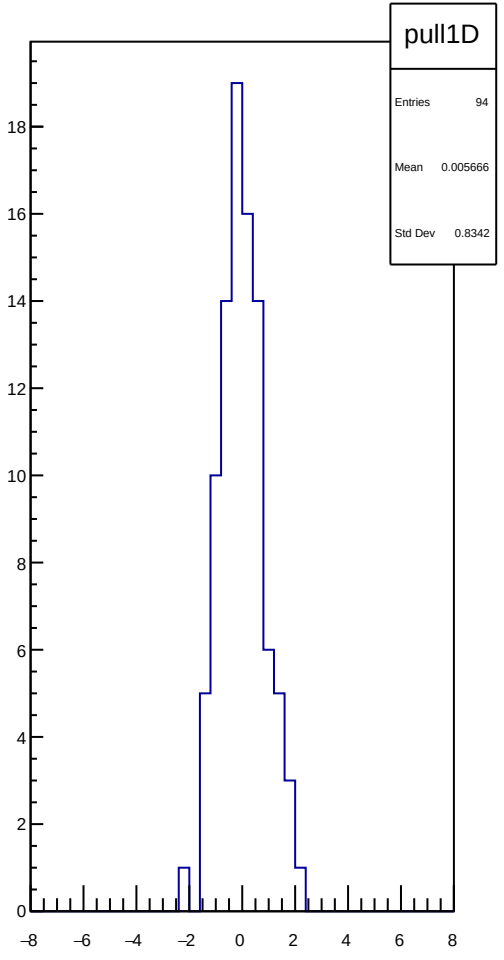

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 66.9 / 93
p0 0.888 ± 0.2407
pull
Entries 94
Mean 503
Std Dev 0
pull1D
Entries 94
Mean −0.004866
Std Dev 0.8436

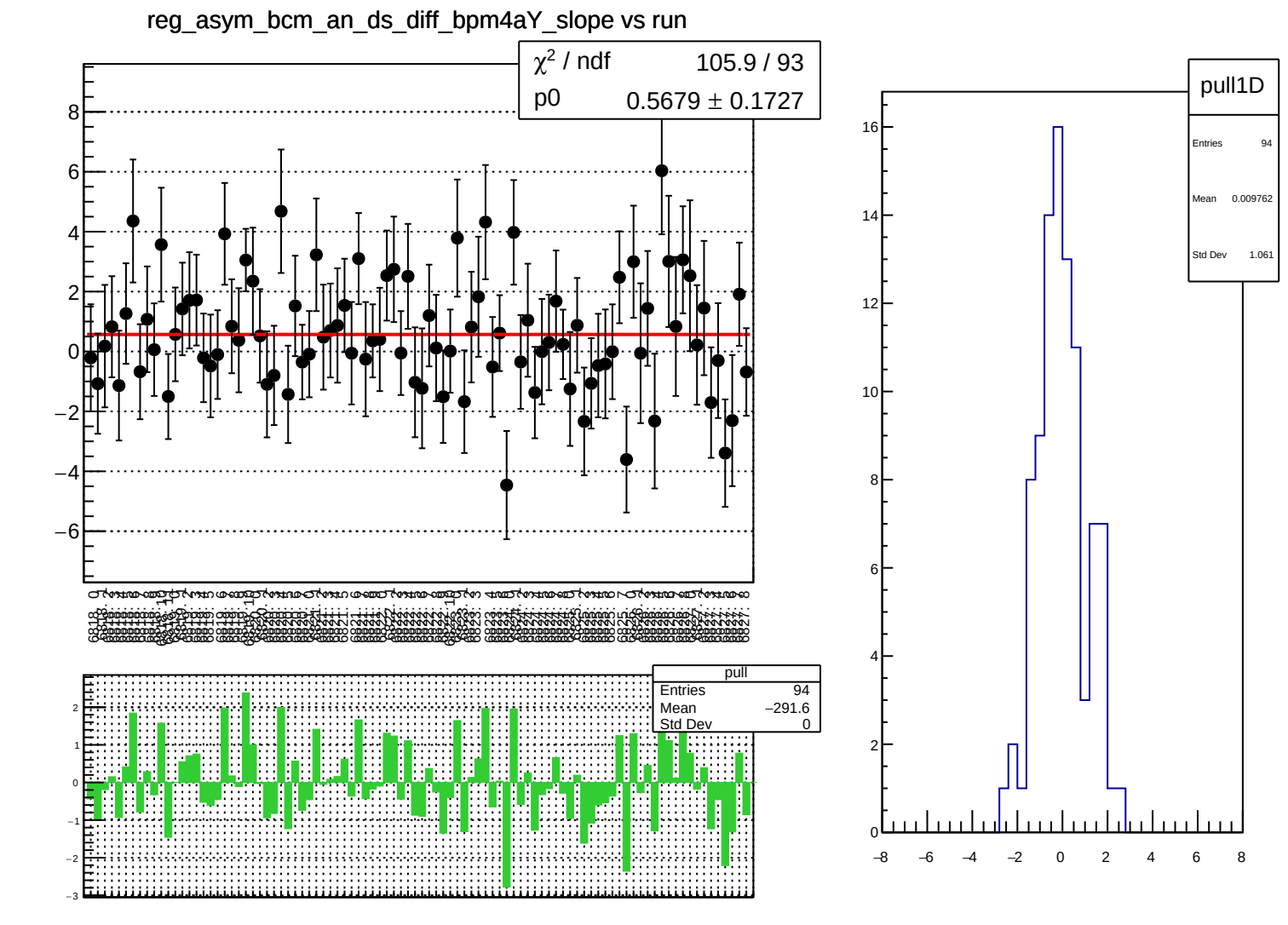

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 106.5 / 93
p0 −0.1636 ± 0.2002
pull
Entries 94
Mean −6387
Std Dev 0
pull1D
Entries 94
Mean −0.000839
Std Dev 1.064

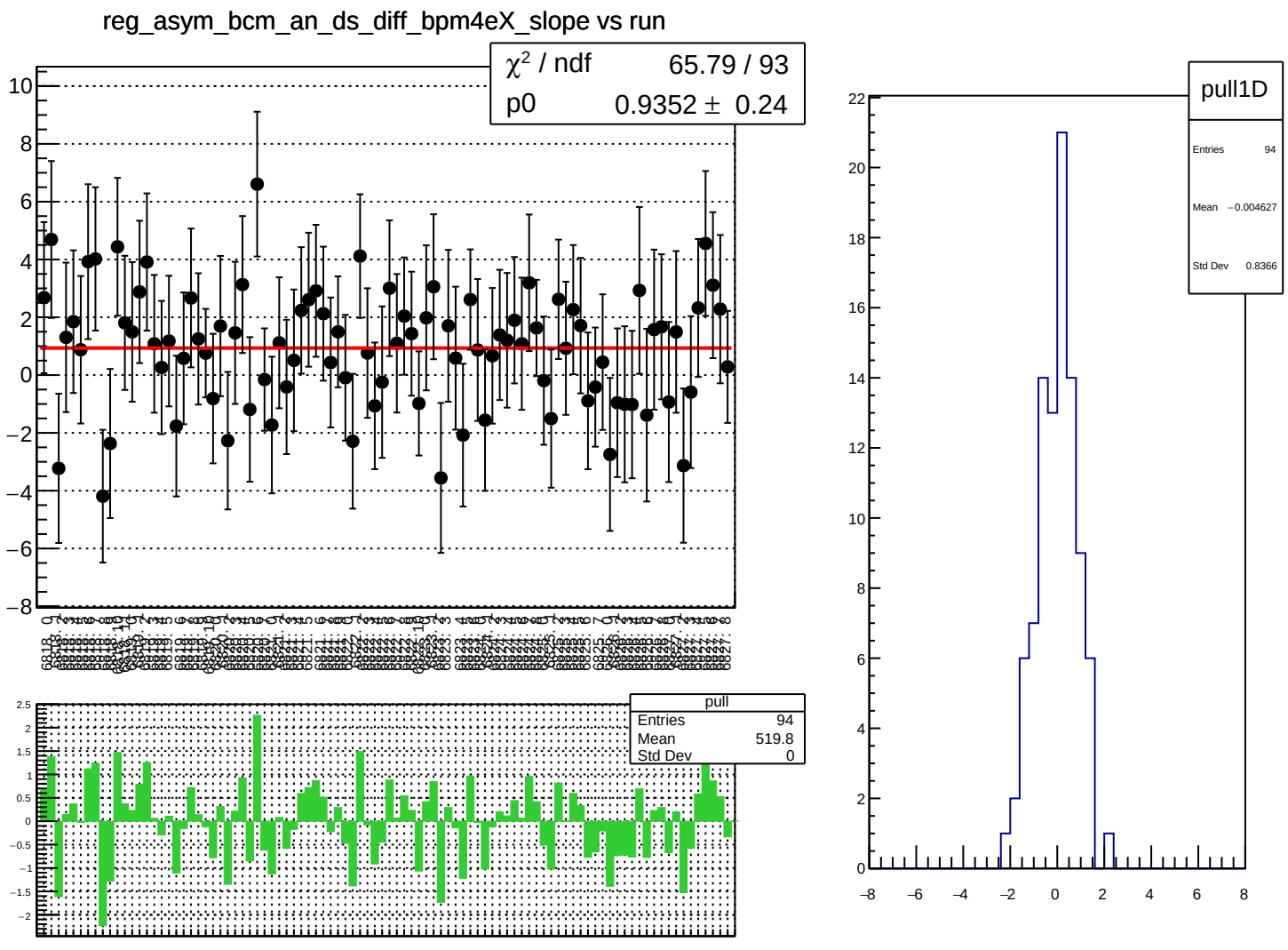

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 58.98 / 93
p0 −0.1377 ± 0.009757
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 94
Mean −1630
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

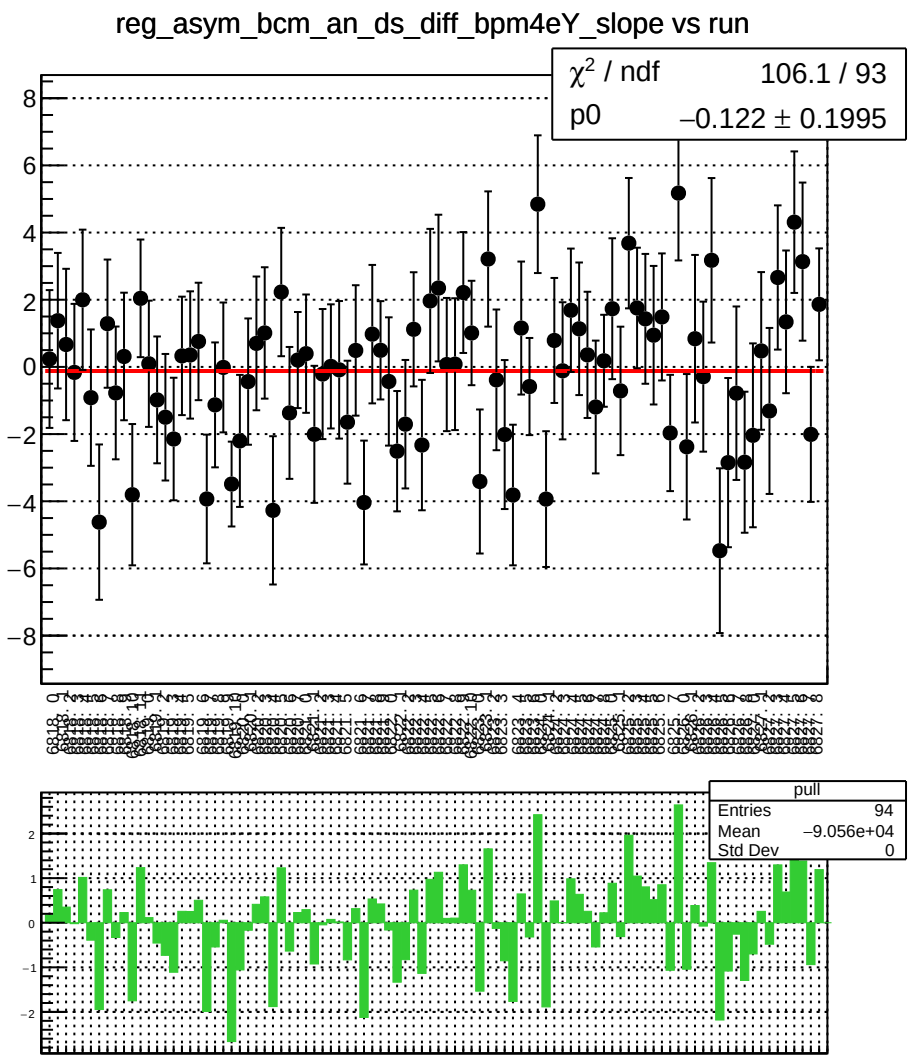

pull1D
Entries 94
Mean 0.003816
Std Dev 0.7921
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

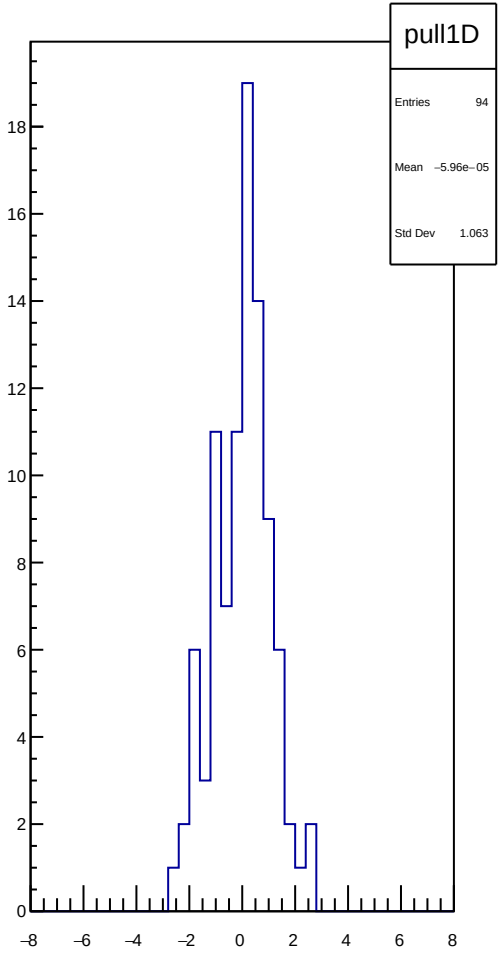

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 65.42 / 93
p0 −1.14 ± 0.2569
pull
Entries 94
Mean 366
Std Dev 0

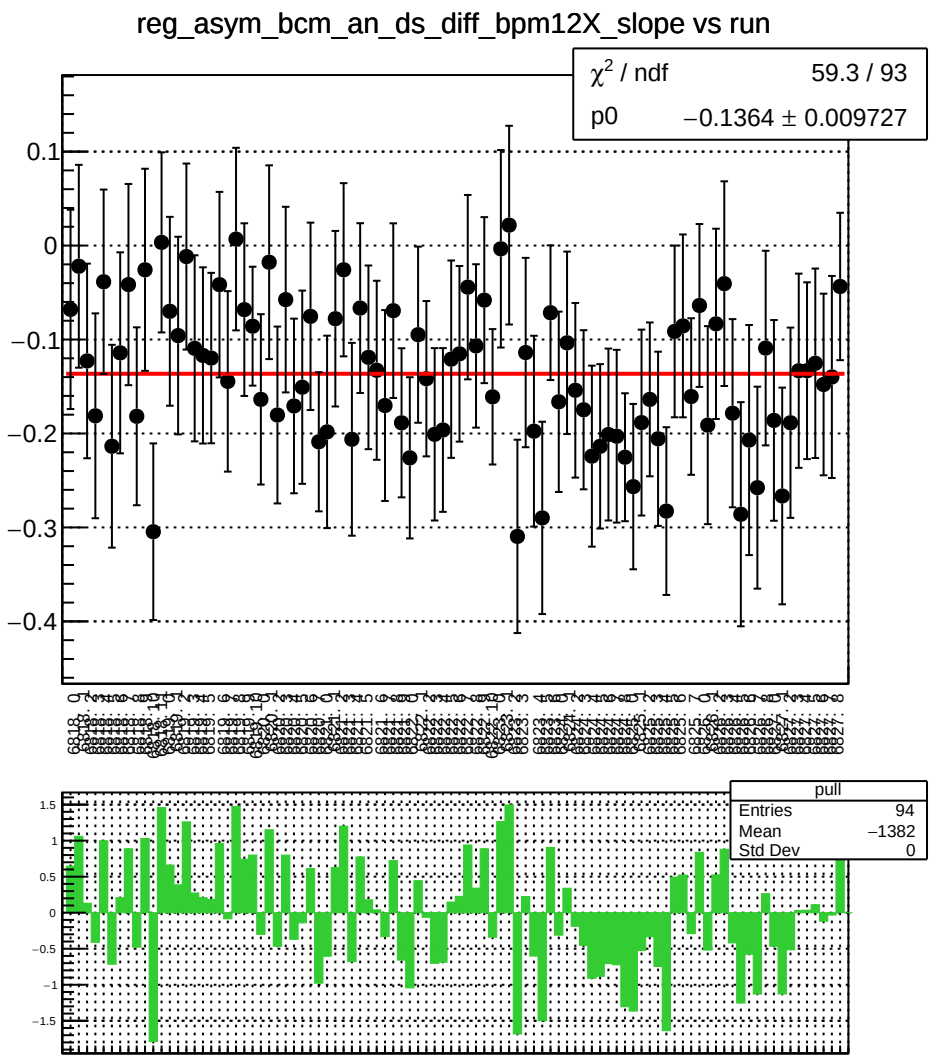

pull1D
Entries 94
Mean 0.005666
Std Dev 0.8342

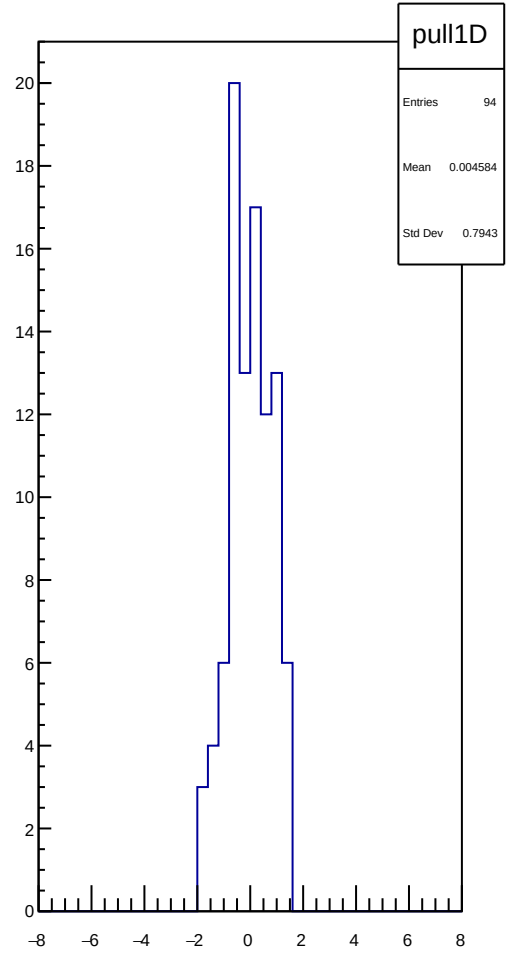

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 105.9 / 93
p0 0.5679 ± 0.1727
pull
Entries 94
Mean −291.6
Std Dev 0
pull1D
Entries 94
Mean 0.009762
Std Dev 1.061

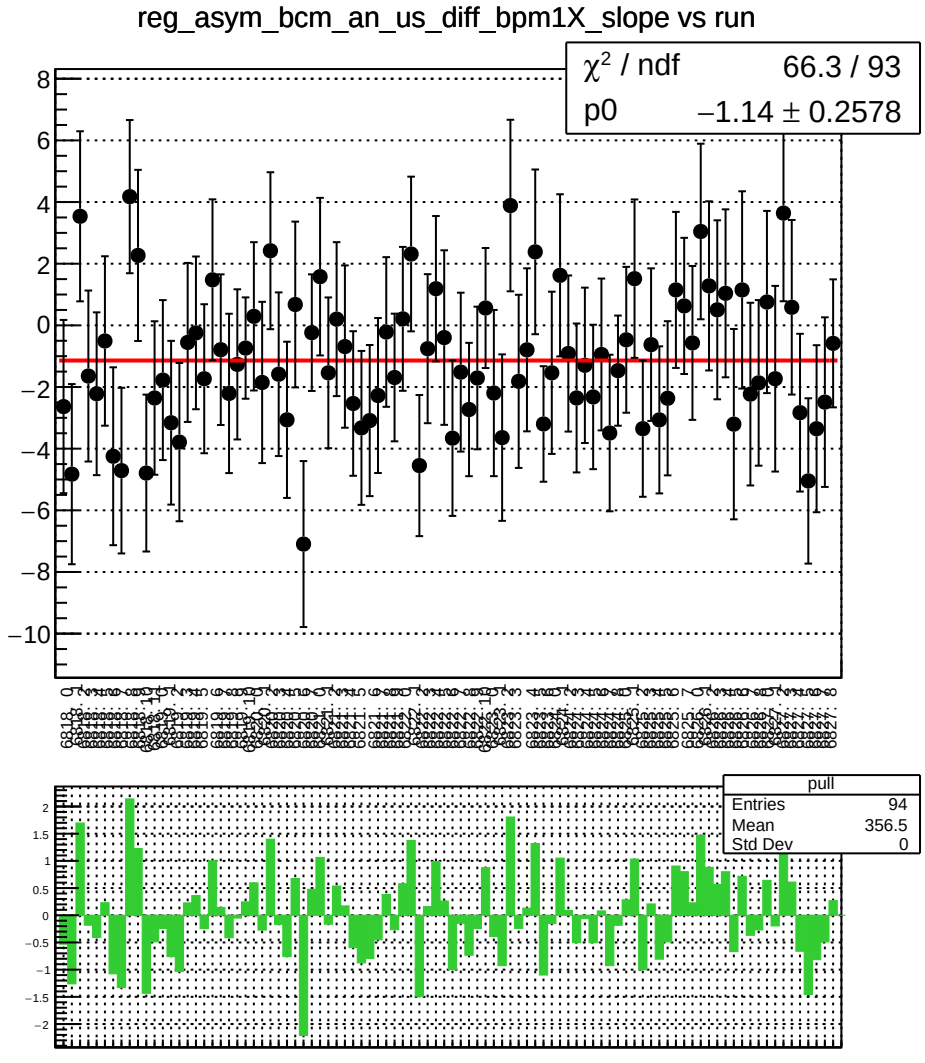

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 65.79 / 93
p0 0.9352 ± 0.24
pull
Entries 94
Mean 519.8
Std Dev 0
pull1D
Entries 94
Mean −0.004627
Std Dev 0.8366

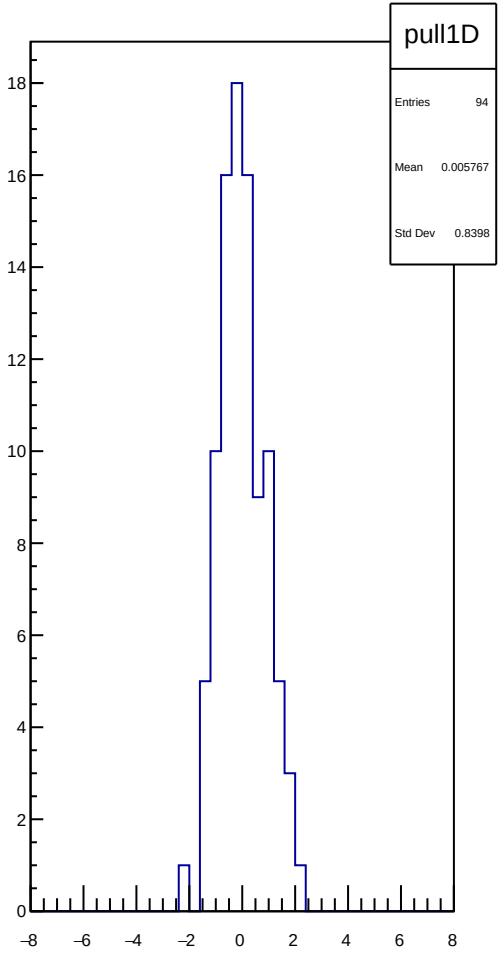

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 106.1 / 93
p0 −0.122 ± 0.1995
pull
Entries 94
Mean −9.056e+04
Std Dev 0

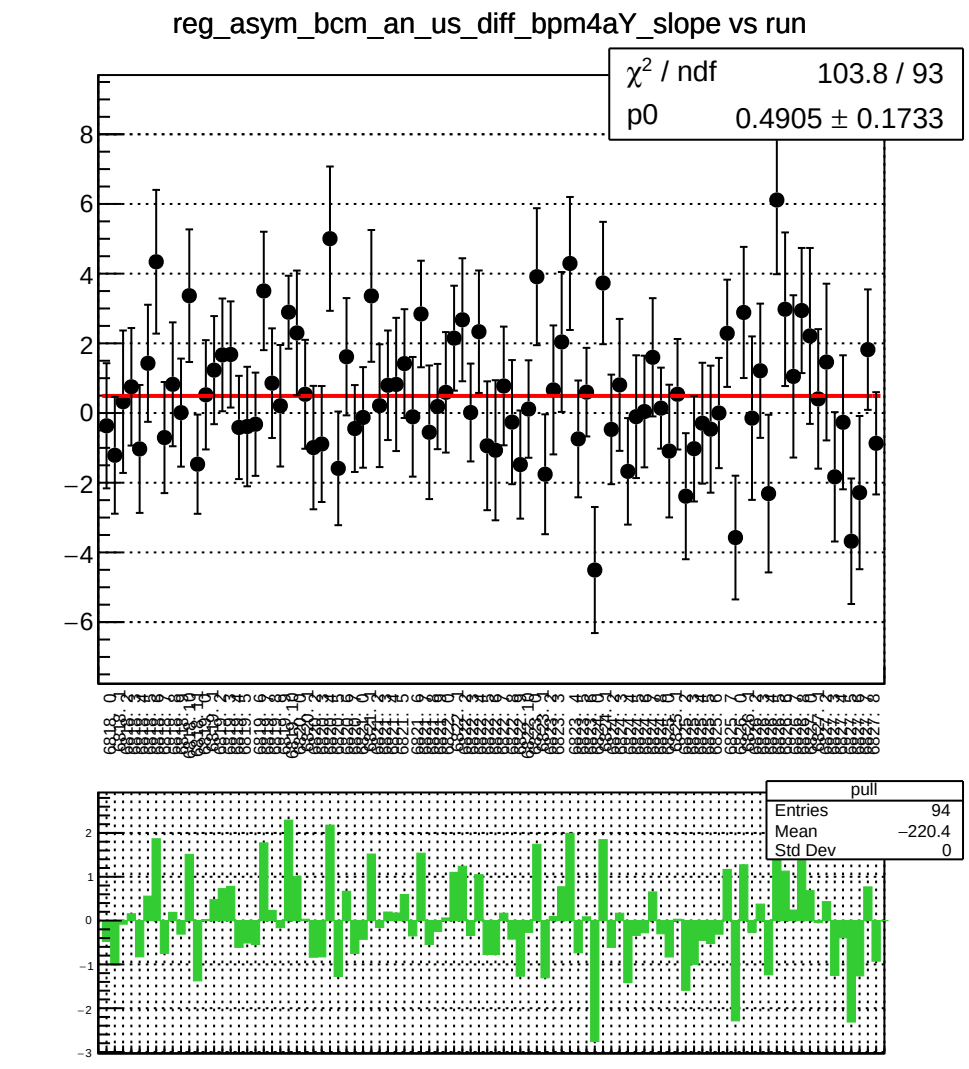

pull1D
Entries 94
Mean −5.96e−05
Std Dev 1.063

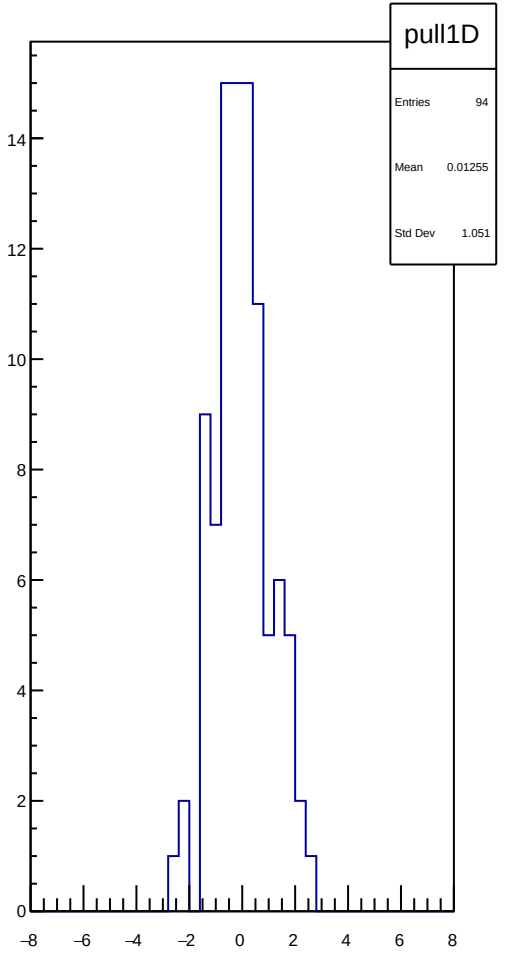

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 59.3 / 93
p0 −0.1364 ± 0.009727
pull
Entries 94
Mean −1382
Std Dev 0

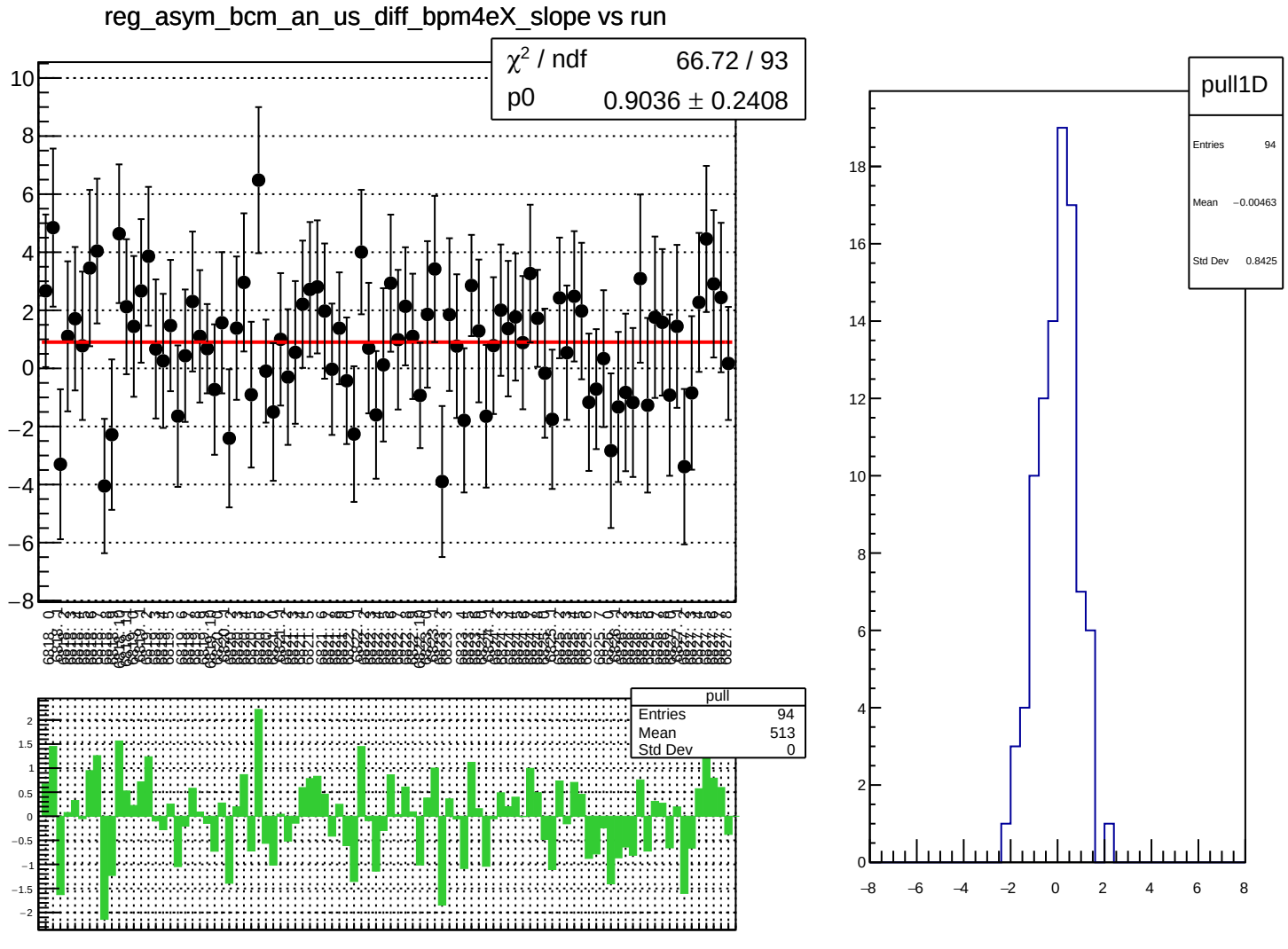

pull1D
Entries 94
Mean 0.004584
Std Dev 0.7943

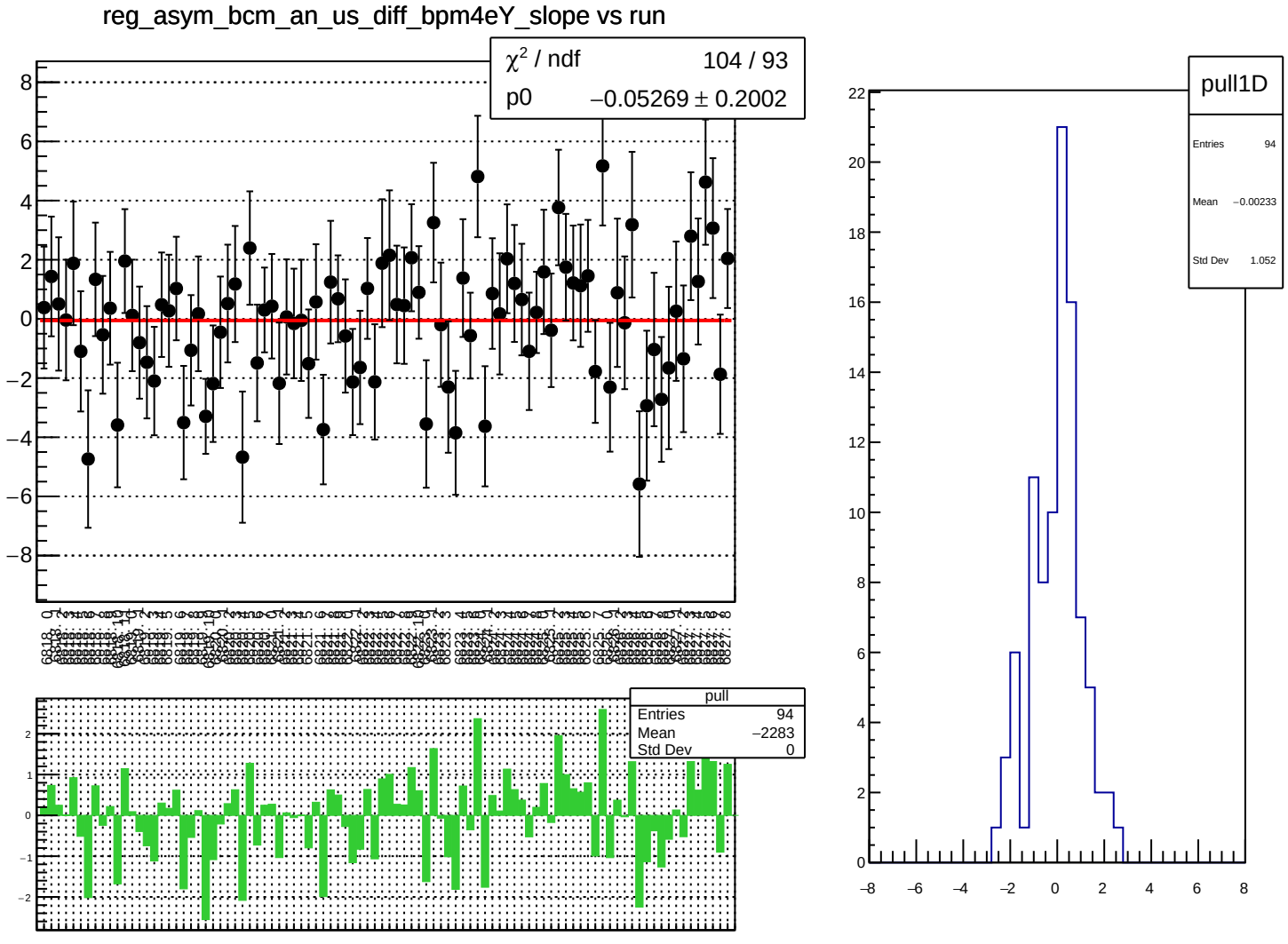

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 66.3 / 93
p0 −1.14 ± 0.2578
pull
Entries 94
Mean 356.5
Std Dev 0

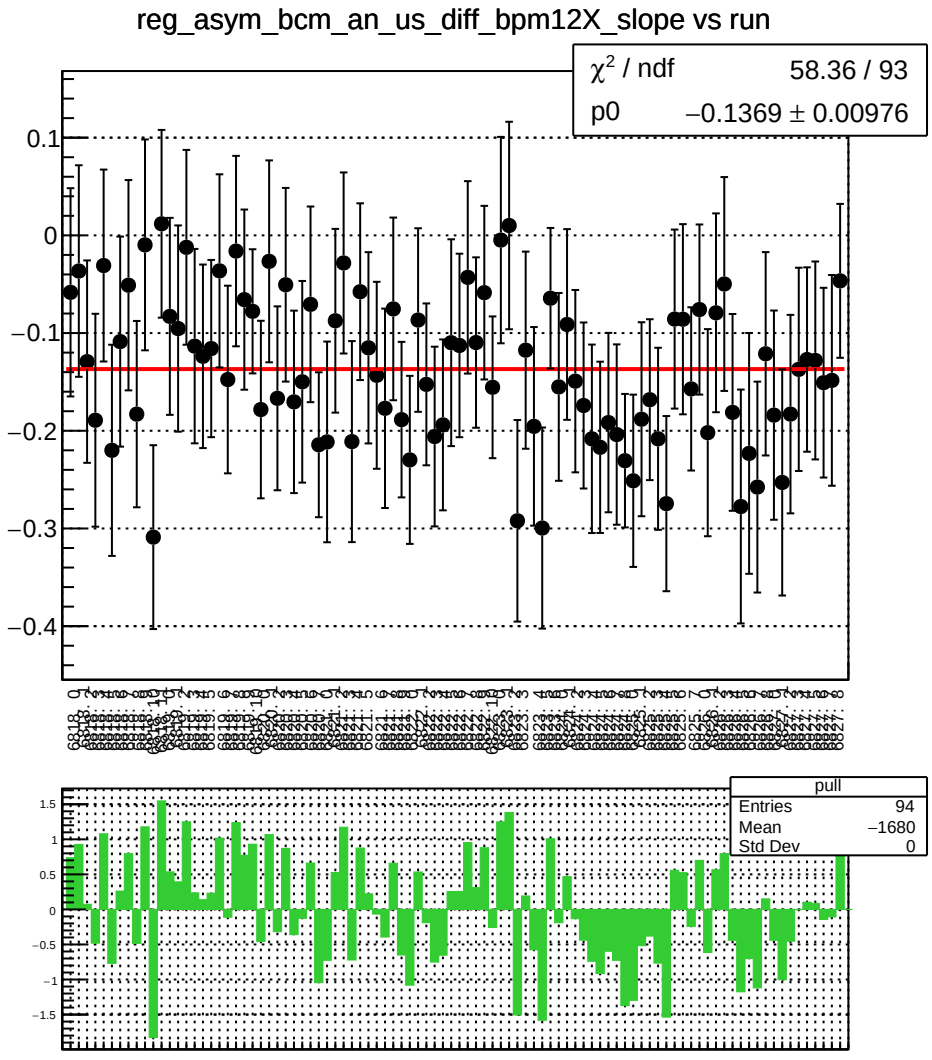

pull1D
Entries 94
Mean 0.005767
Std Dev 0.8398

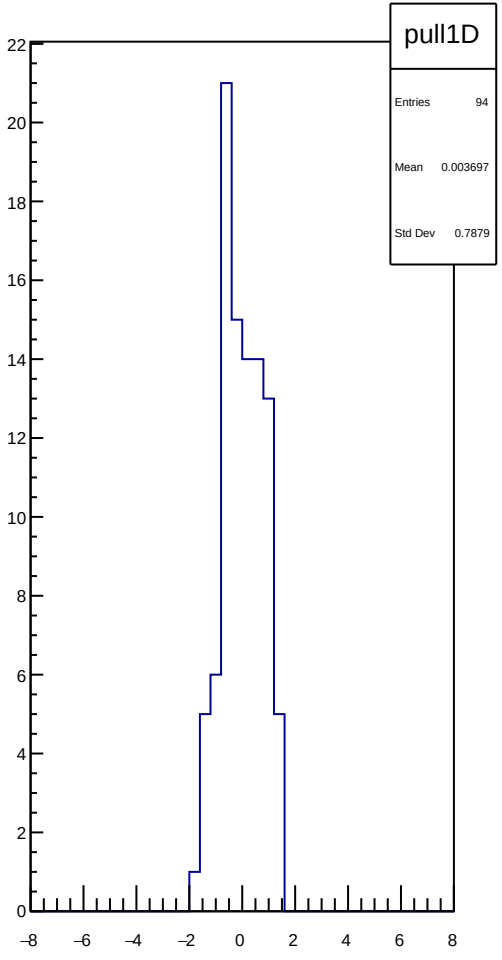

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 103.8 / 93
p0 0.4905 ± 0.1733
pull
Entries 94
Mean −220.4
Std Dev 0

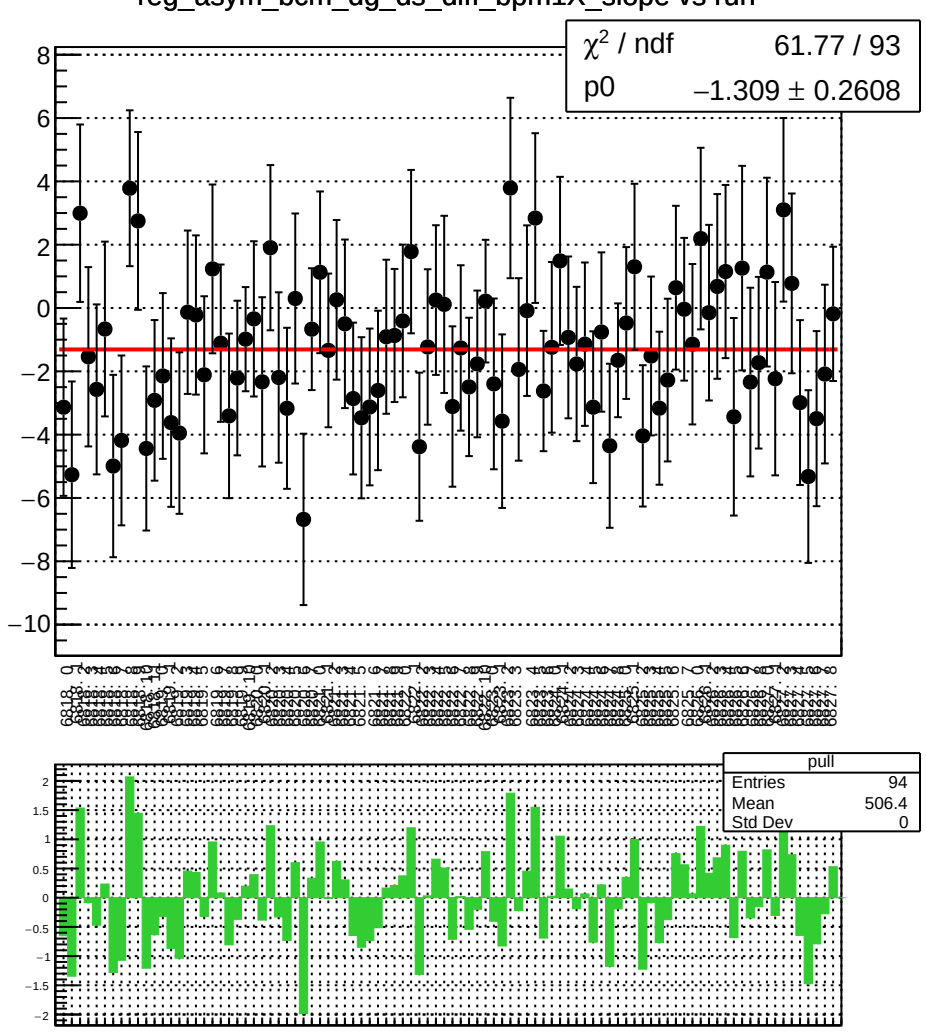

pull1D
Entries 94
Mean 0.01255
Std Dev 1.051

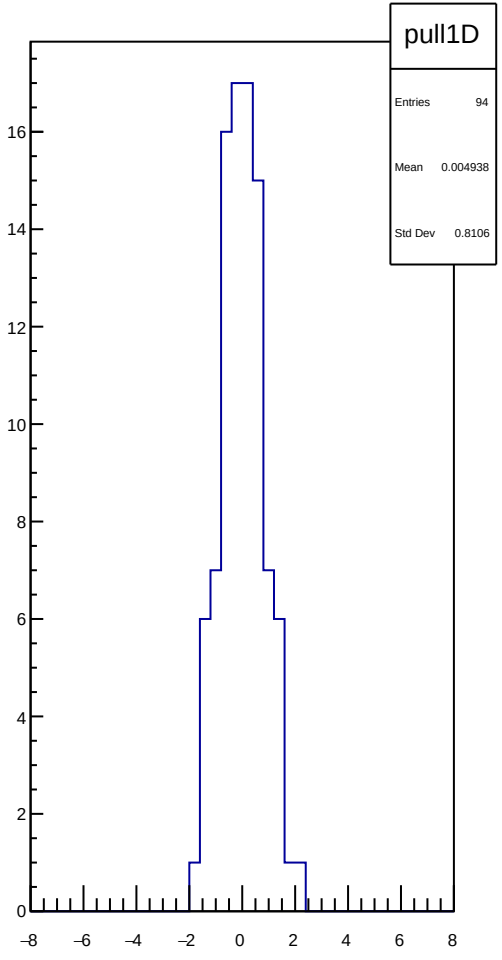

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 66.72 / 93
p0 0.9036 ± 0.2408
pull
Entries 94
Mean 513
Std Dev 0
pull1D
Entries 94
Mean −0.00463
Std Dev 0.8425

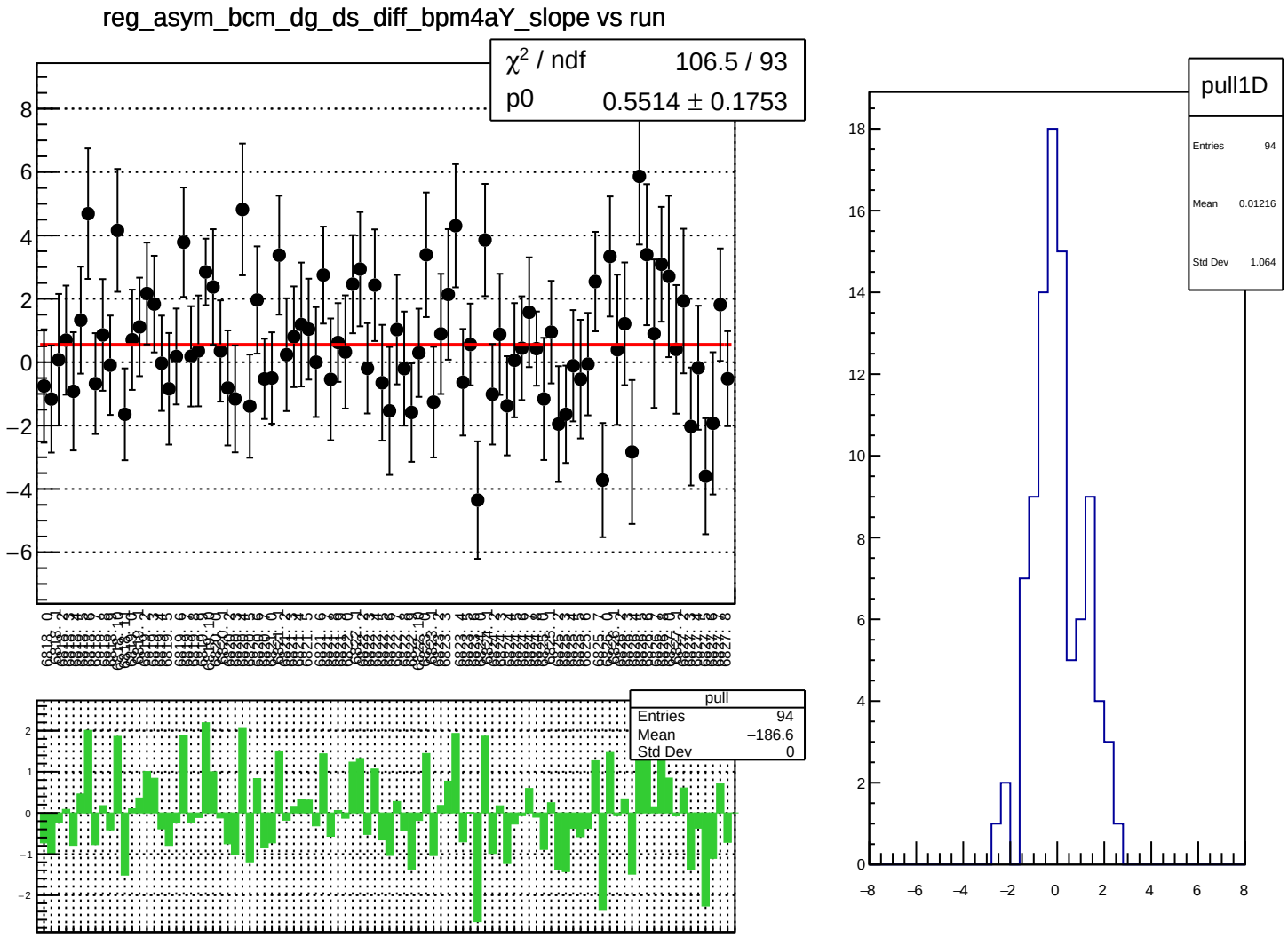

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 104 / 93
p0 −0.05269 ± 0.2002
pull
Entries 94
Mean −2283
Std Dev 0
pull1D
Entries 94
Mean −0.00233
Std Dev 1.052

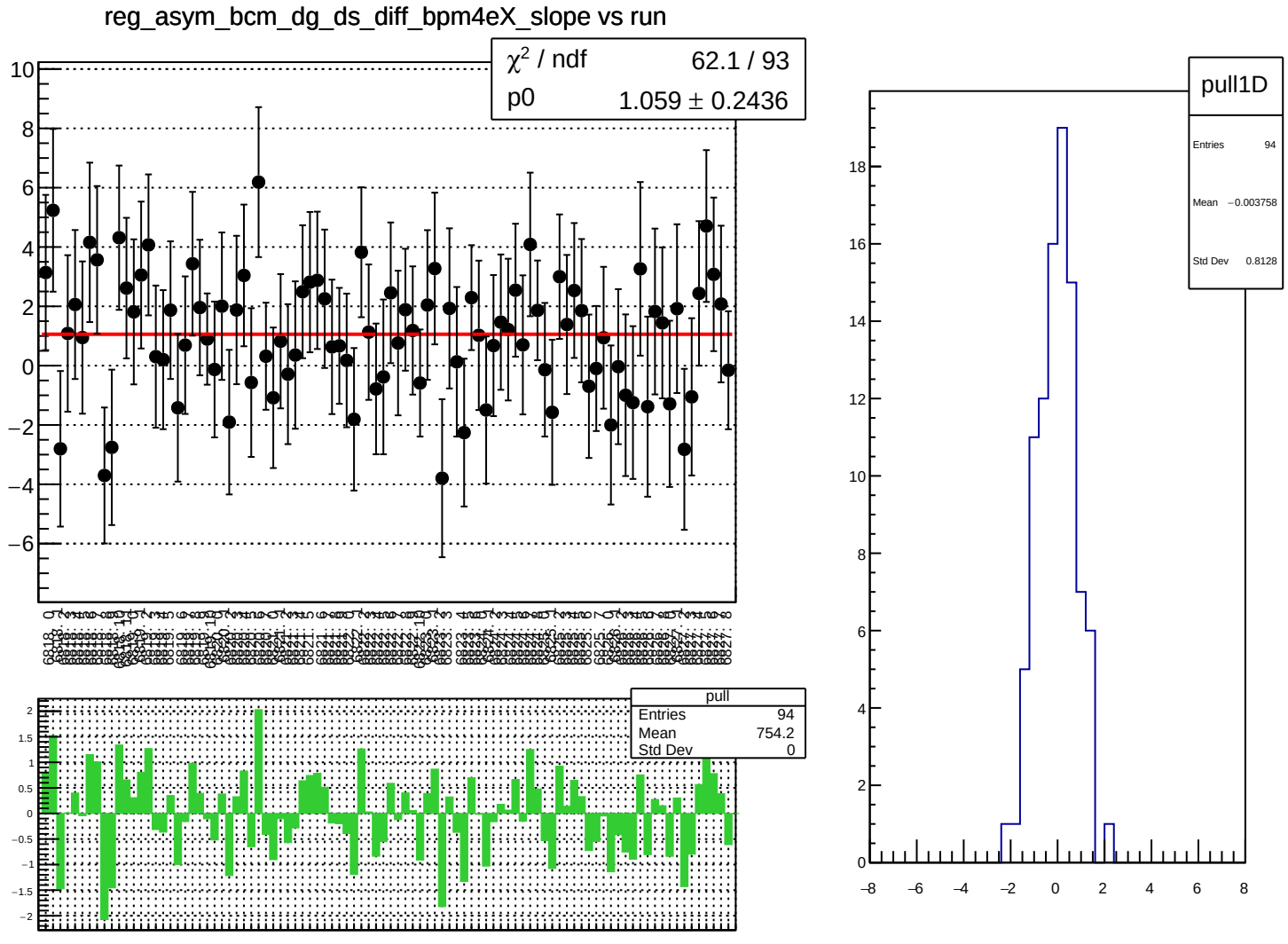

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 58.36 / 93
p0 −0.1369 ± 0.00976
pull
Entries 94
Mean −1680
Std Dev 0

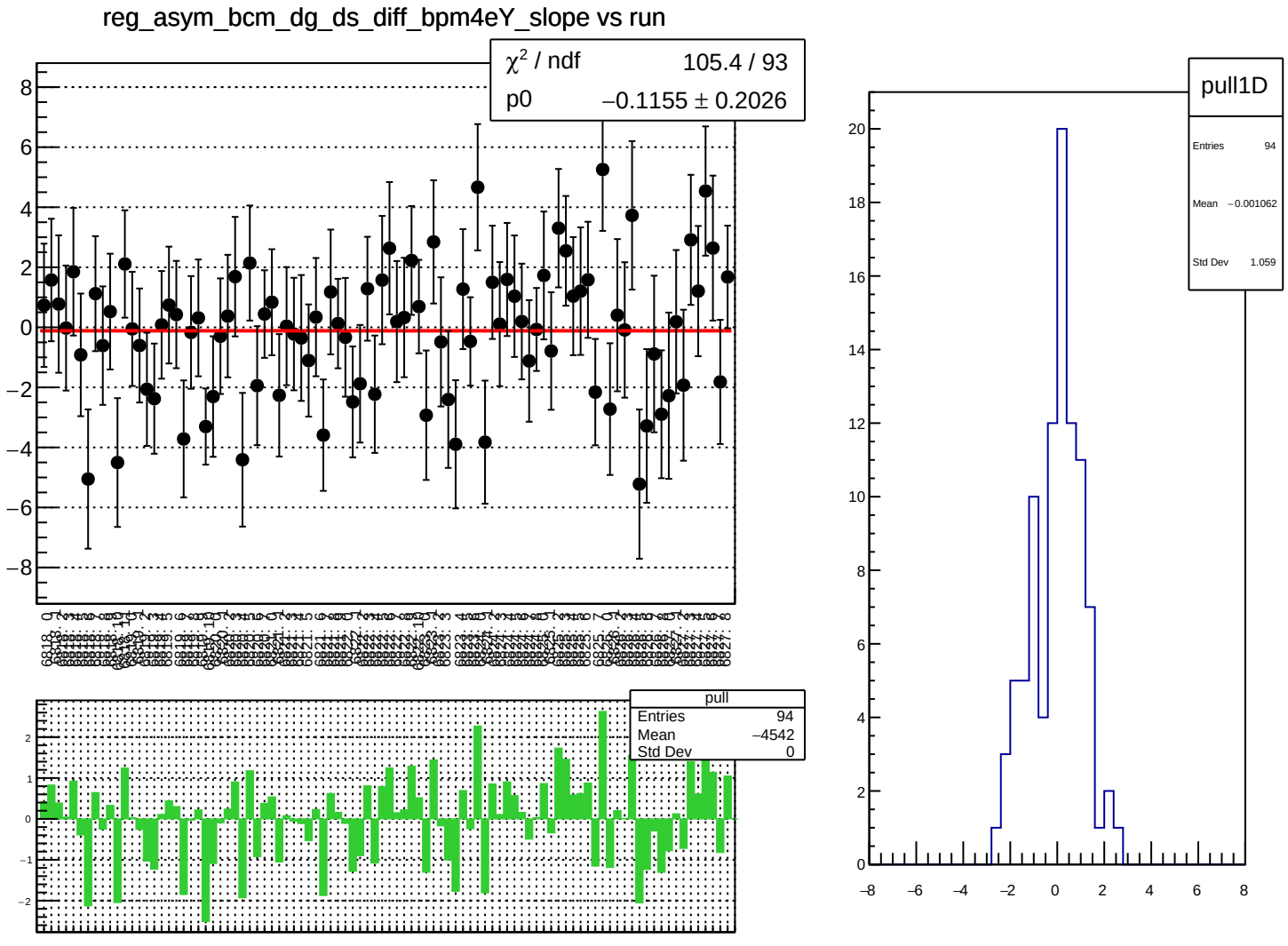

pull1D
Entries 94
Mean 0.003697
Std Dev 0.7879

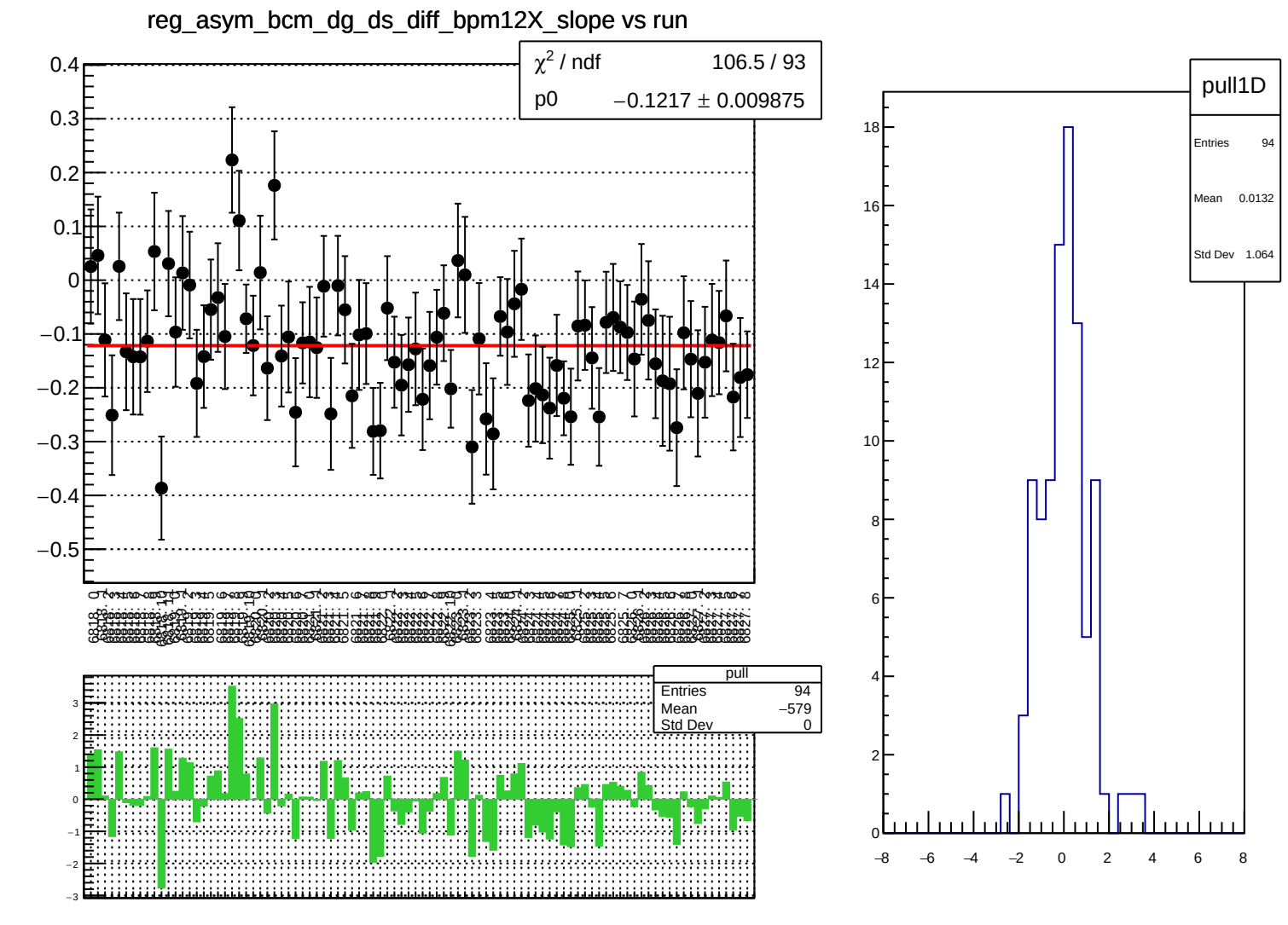

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 61.77 / 93
p0 −1.309 ± 0.2608
pull
Entries 94
Mean 506.4
Std Dev 0

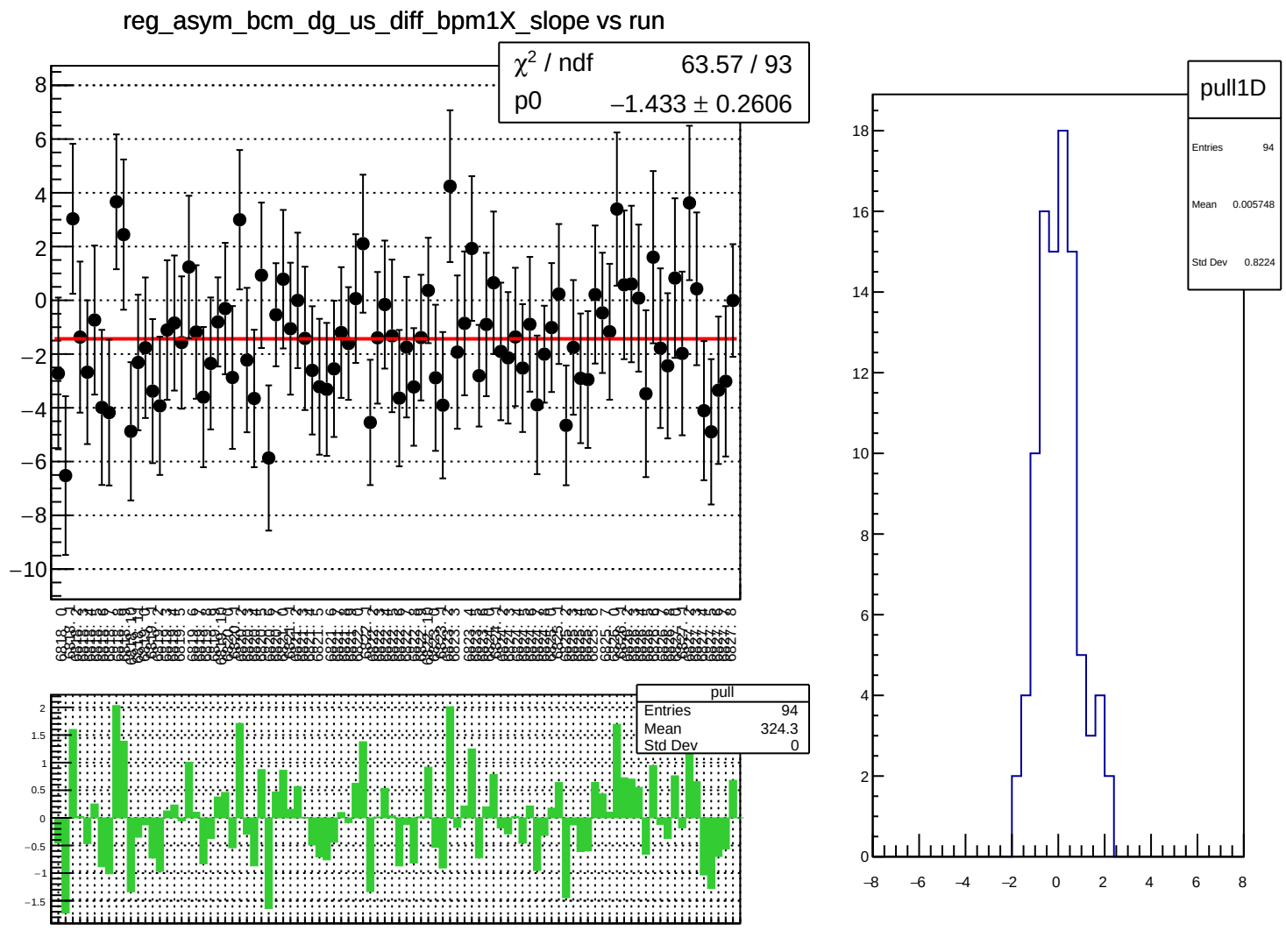

pull1D
Entries 94
Mean 0.004938
Std Dev 0.8106

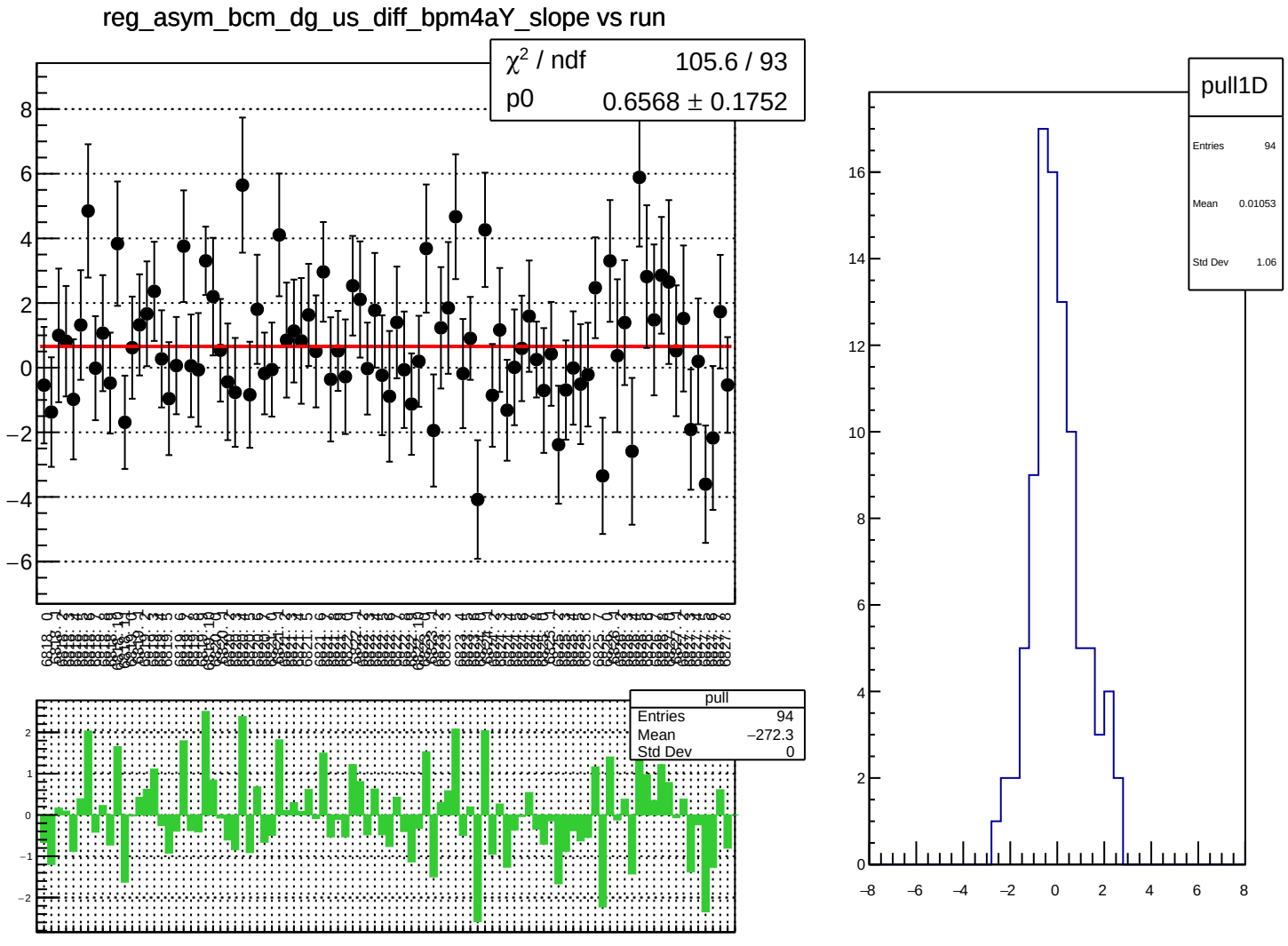

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 106.5 / 93
p0 0.5514 ± 0.1753
pull
Entries 94
Mean −186.6
Std Dev 0
pull1D
Entries 94
Mean 0.01216
Std Dev 1.064

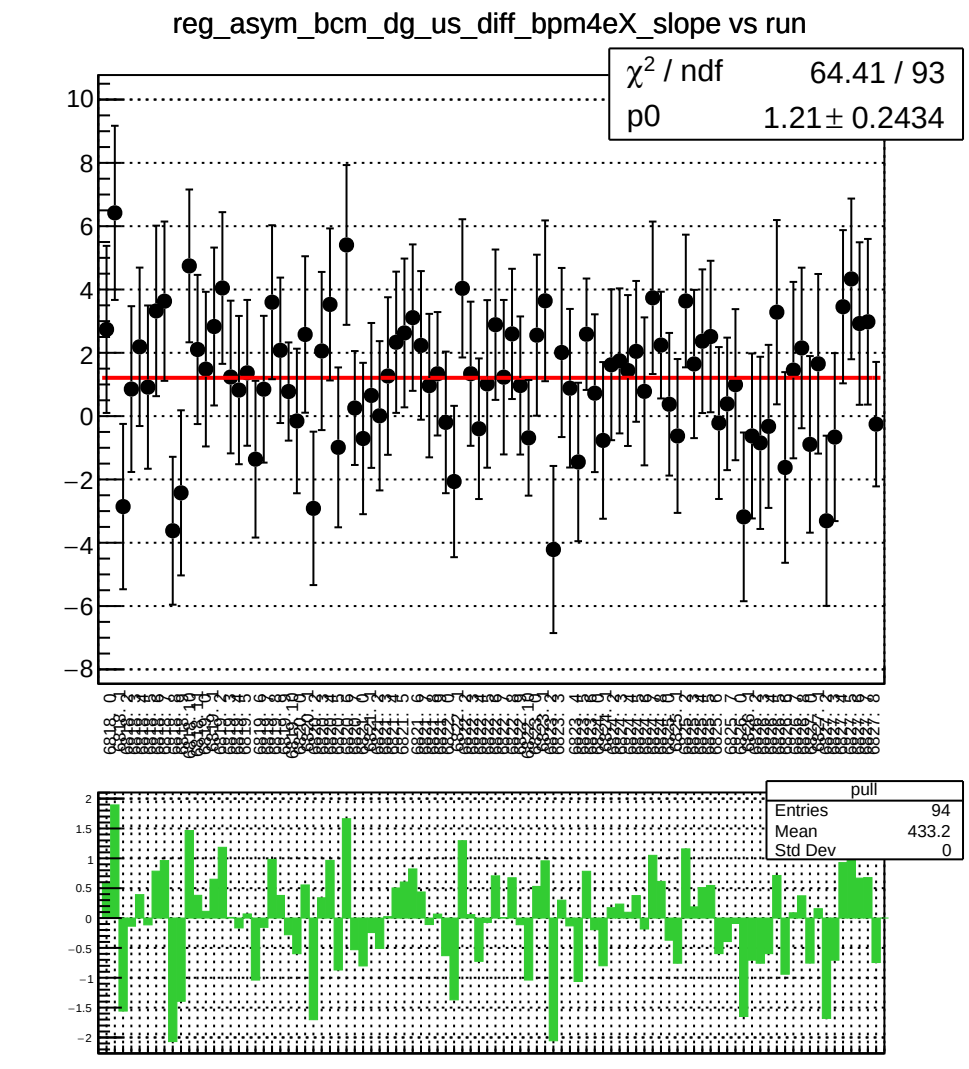

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 62.1 / 93
p0 1.059 ± 0.2436
pull
Entries 94
Mean 754.2
Std Dev 0
pull1D
Entries 94
Mean −0.003758
Std Dev 0.8128

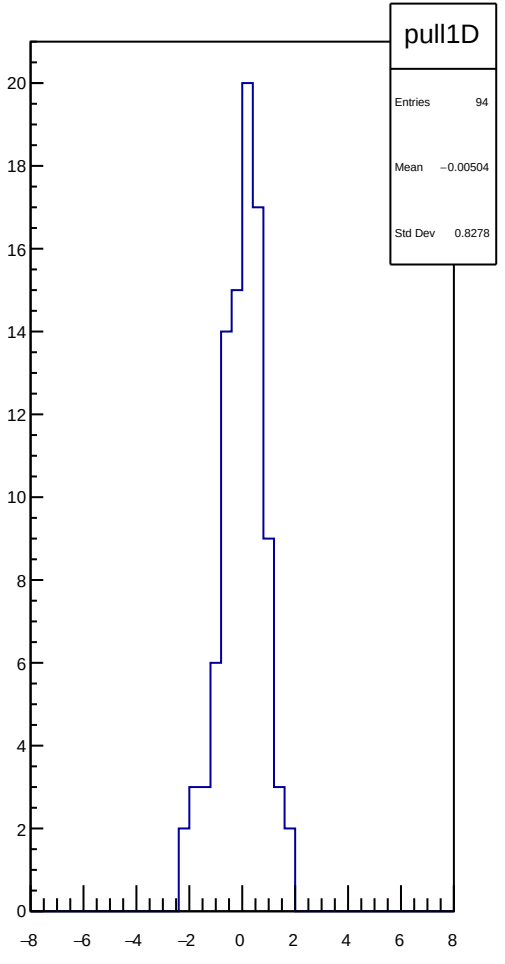

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 105.4 / 93
p0 −0.1155 ± 0.2026
pull
Entries 94
Mean −4542
Std Dev 0
pull1D
Entries 94
Mean −0.001062
Std Dev 1.059

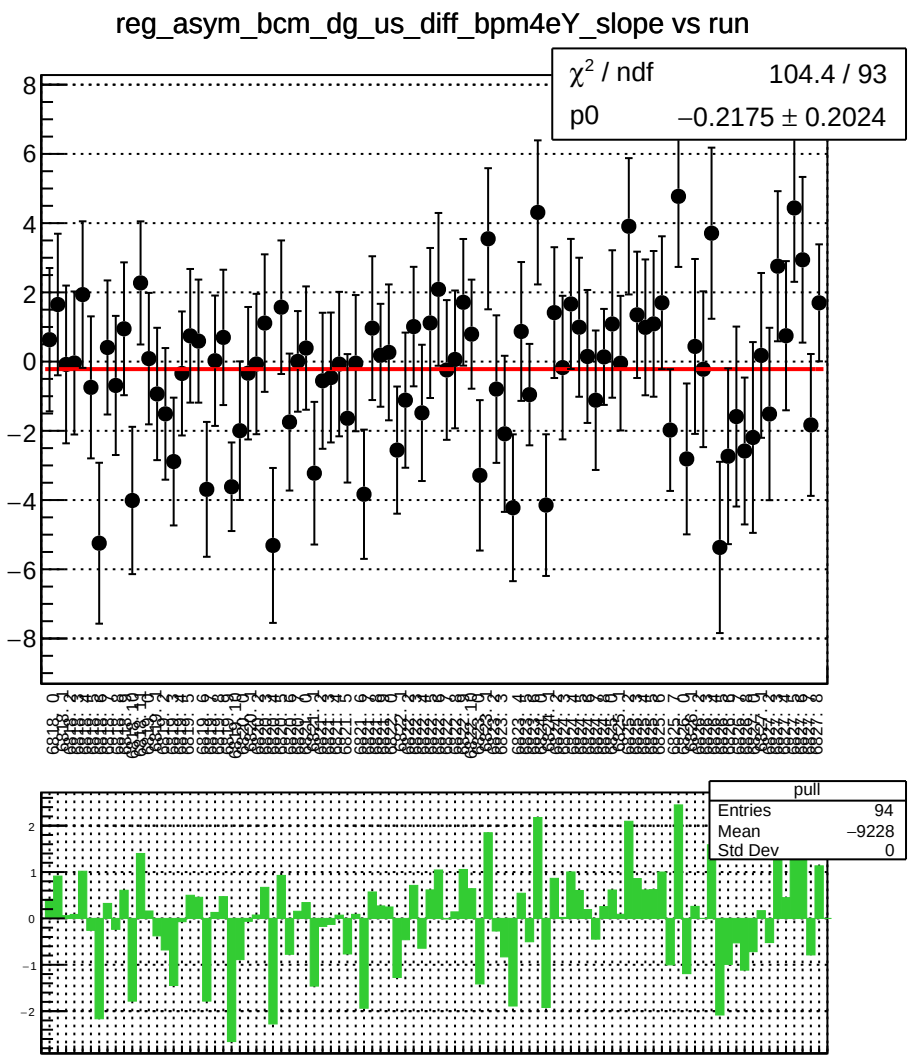

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 106.5 / 93
p0 −0.1217 ± 0.009875
pull
Entries 94
Mean −579
Std Dev 0
pull1D
Entries 94
Mean 0.0132
Std Dev 1.064

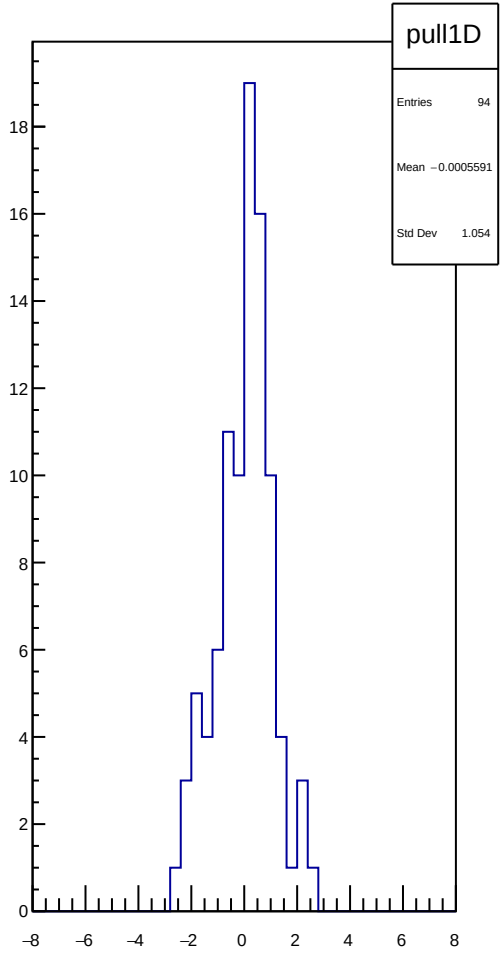

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 63.57 / 93
p0 −1.433 ± 0.2606
pull
Entries 94
Mean 324.3
Std Dev 0
pull1D
Entries 94
Mean 0.005748
Std Dev 0.8224

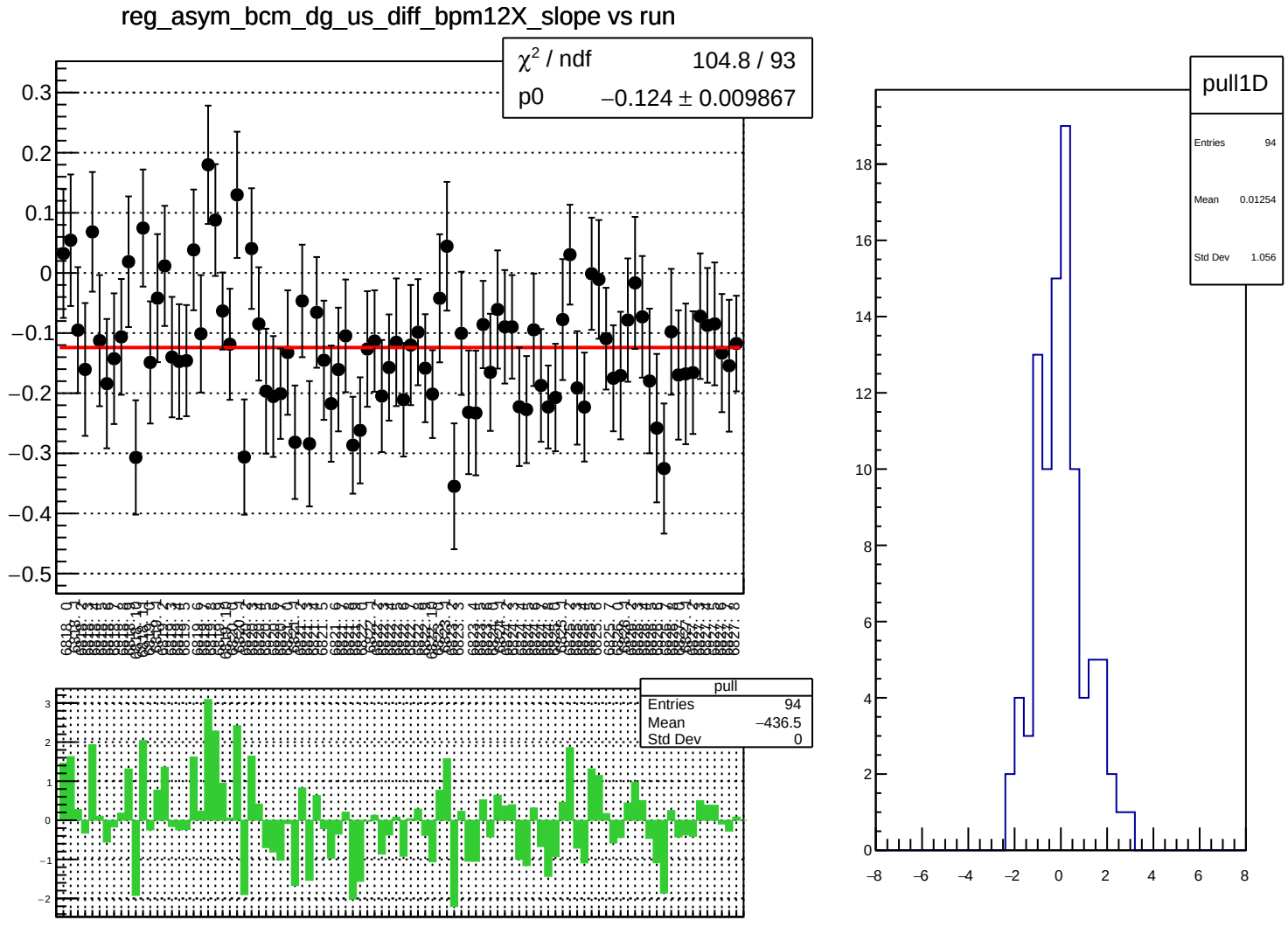

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 105.6 / 93
p0 0.6568 ± 0.1752
pull
Entries 94
Mean −272.3
Std Dev 0
pull1D
Entries 94
Mean 0.01053
Std Dev 1.06

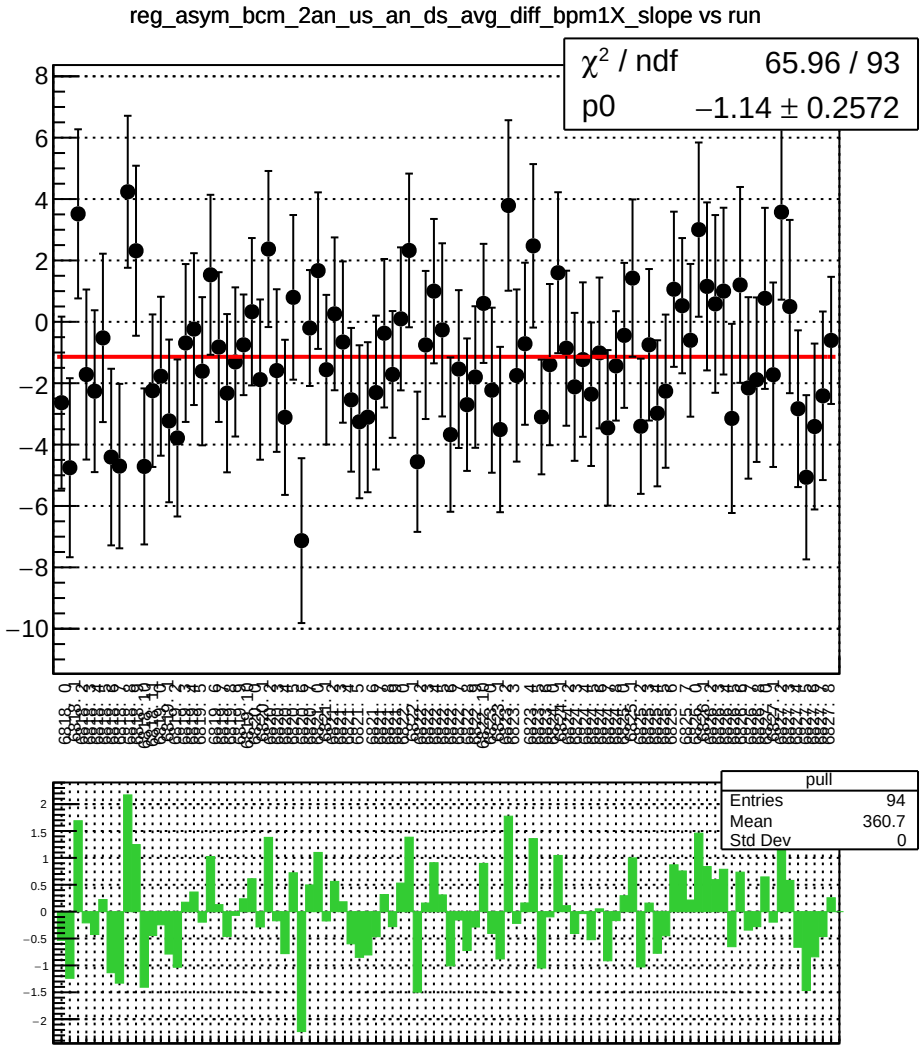

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 64.41 / 93
p0 1.21 ± 0.2434
pull
Entries 94
Mean 433.2
Std Dev 0

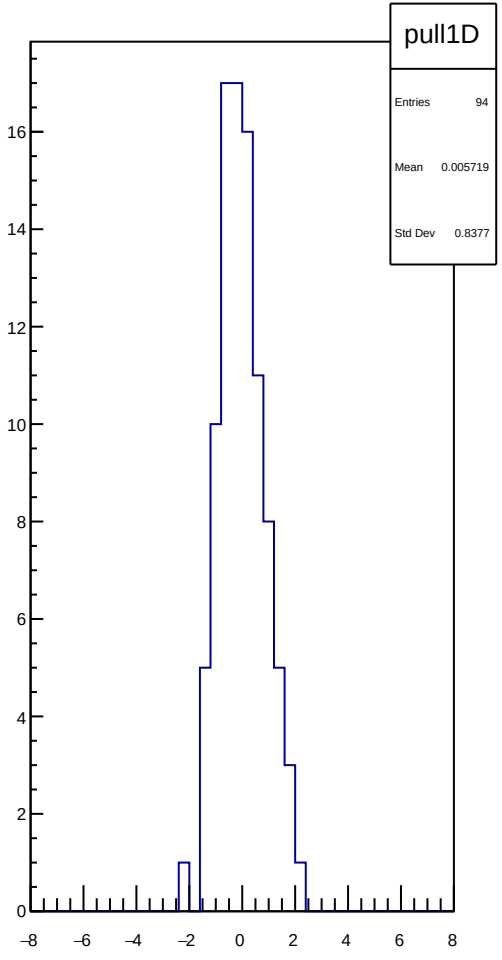

pull1D
Entries 94
Mean −0.00504
Std Dev 0.8278

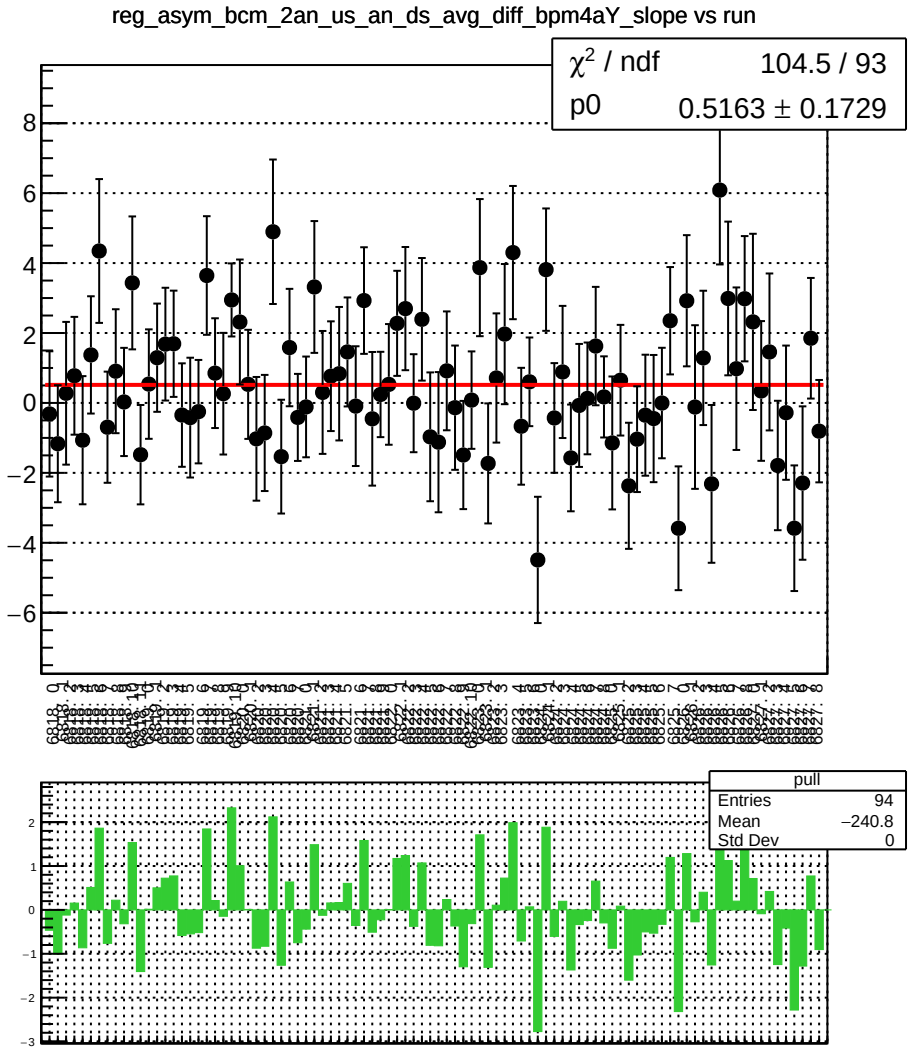

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 104.4 / 93
p0 −0.2175 ± 0.2024
pull
Entries 94
Mean −9228
Std Dev 0

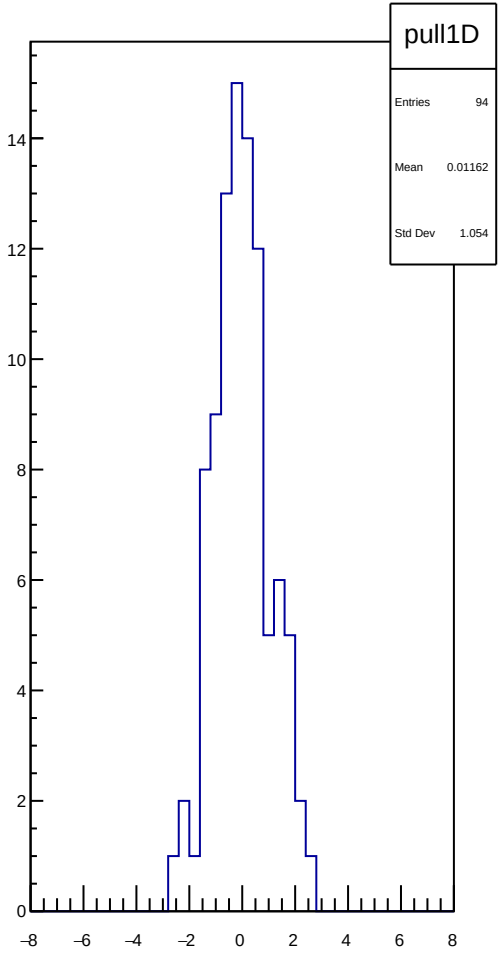

pull1D
Entries 94
Mean −0.0005591
Std Dev 1.054

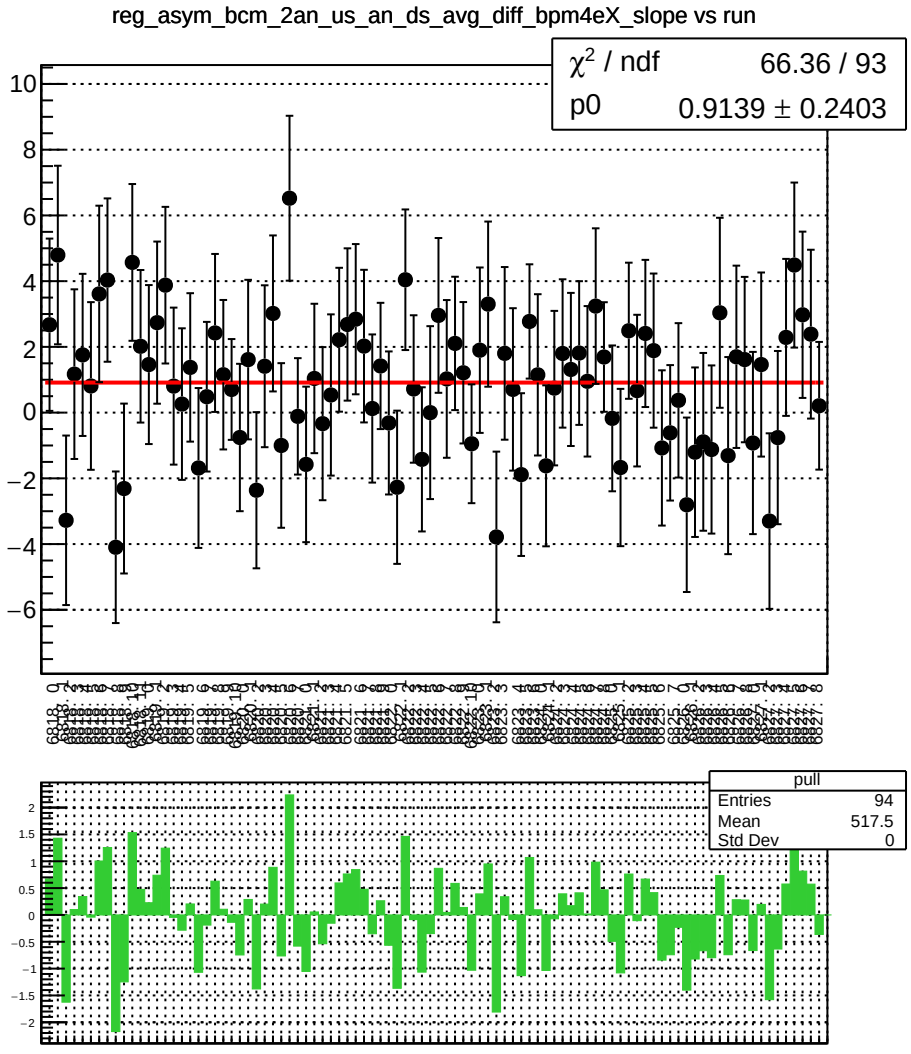

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 104.8 / 93
p0 −0.124 ± 0.009867
pull
Entries 94
Mean −436.5
Std Dev 0
pull1D
Entries 94
Mean 0.01254
Std Dev 1.056

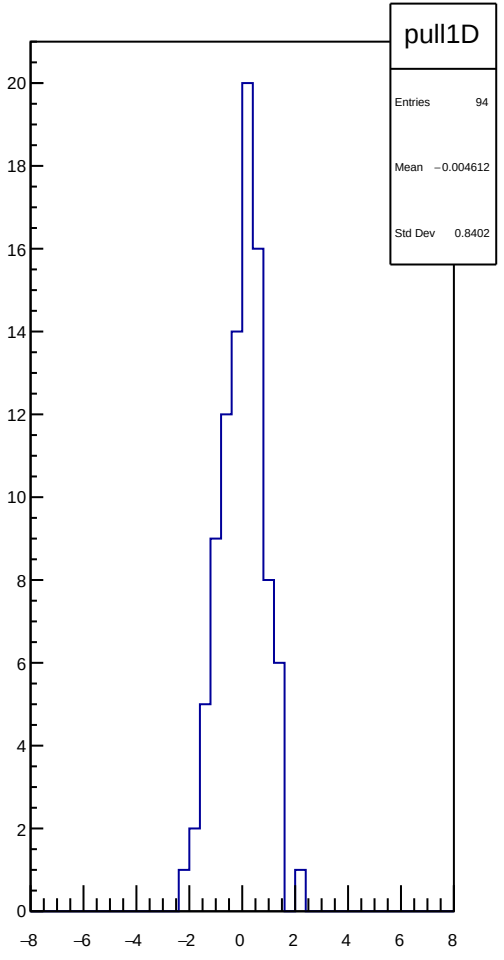

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 65.96 / 93
p0 −1.14 ± 0.2572
pull
Entries 94
Mean 360.7
Std Dev 0

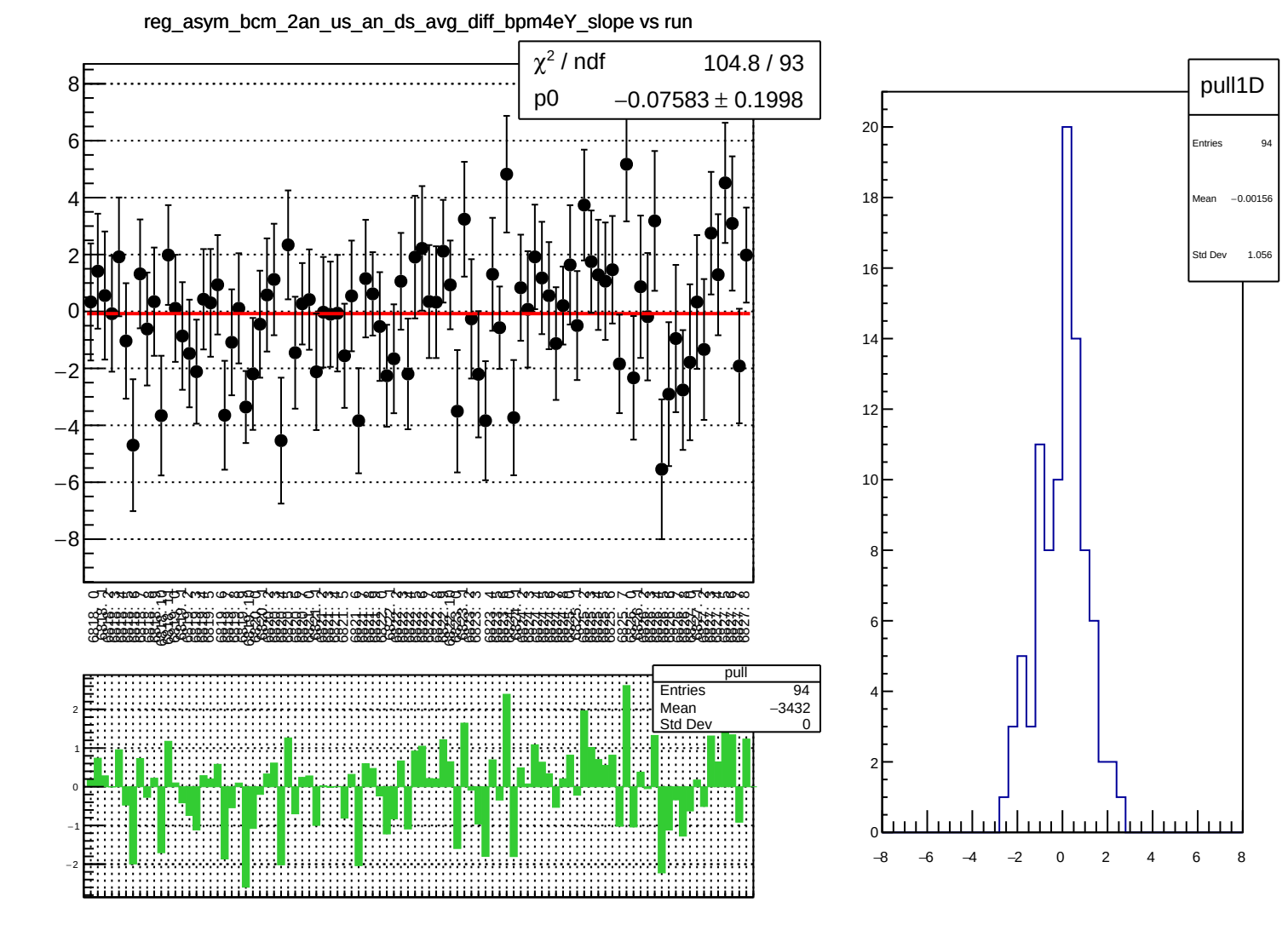

pull1D
Entries 94
Mean 0.005719
Std Dev 0.8377

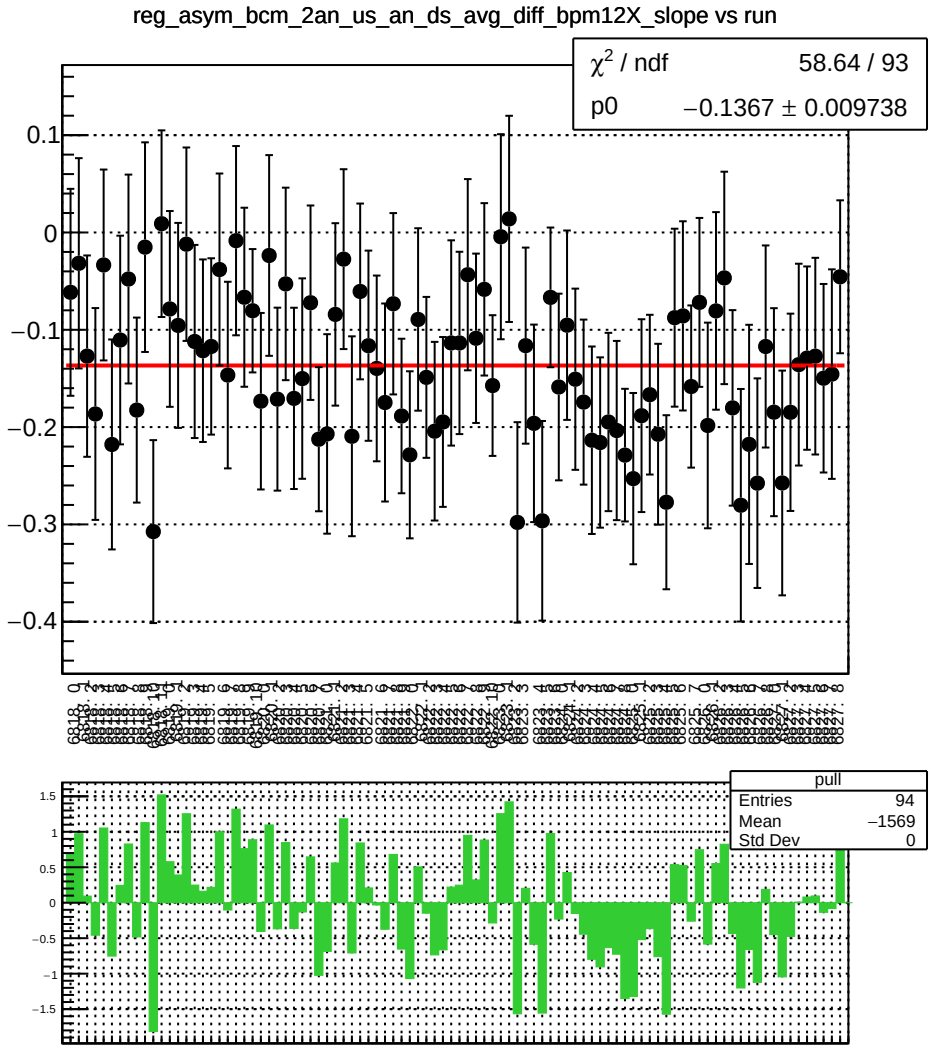

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.5 / 93
p0 0.5163 ± 0.1729
pull
Entries 94
Mean −240.8
Std Dev 0

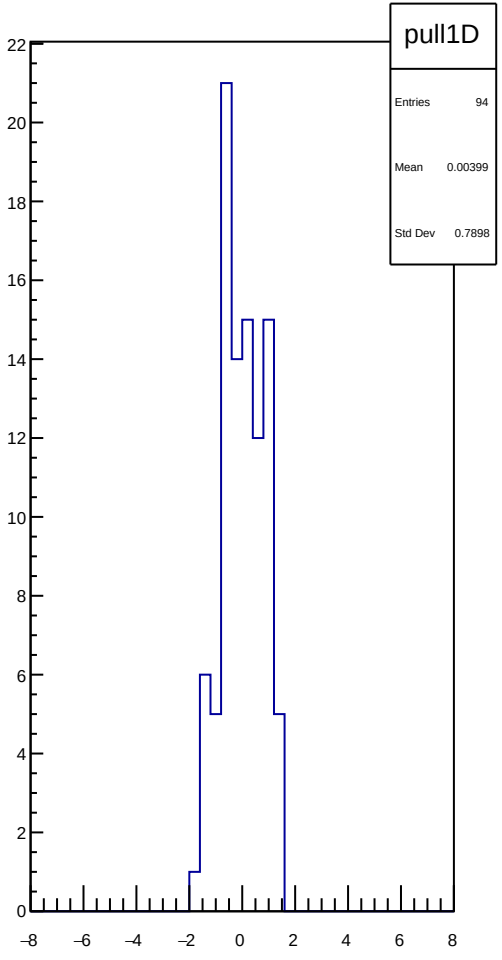

pull1D
Entries 94
Mean 0.01162
Std Dev 1.054

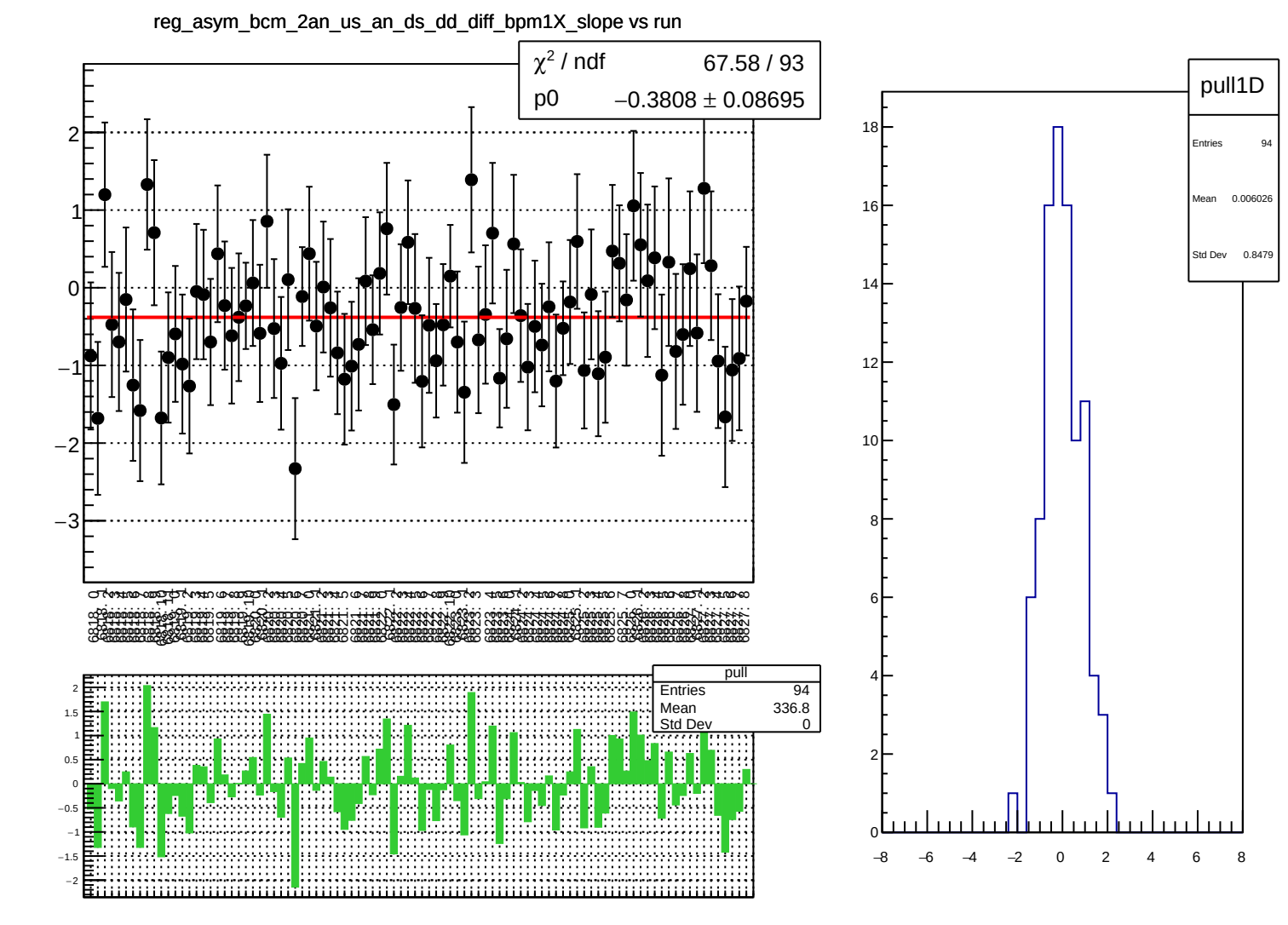

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.36 / 93
p0 0.9139 ± 0.2403
pull
Entries 94
Mean 517.5
Std Dev 0

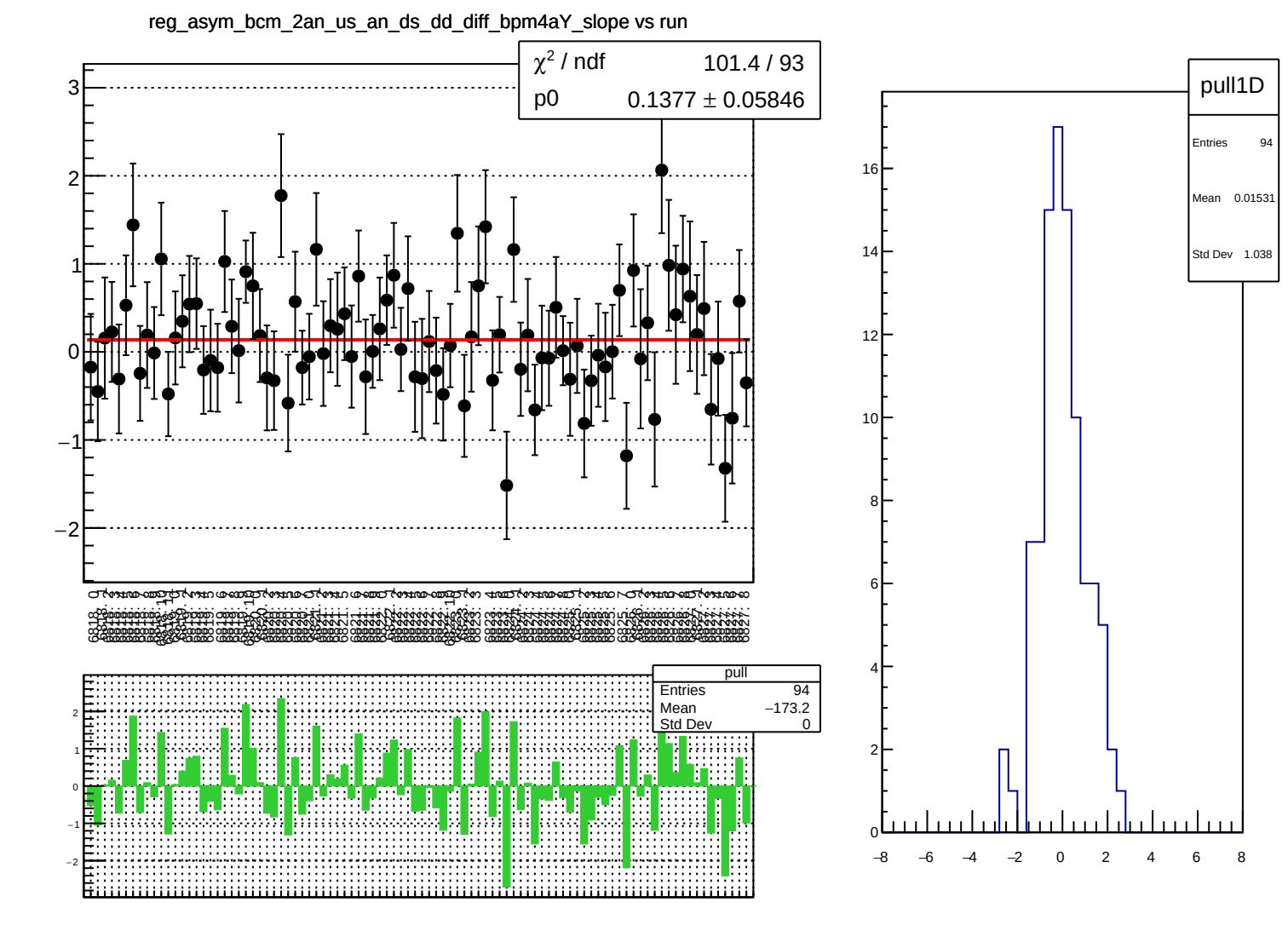

pull1D
Entries 94
Mean −0.004612
Std Dev 0.8402

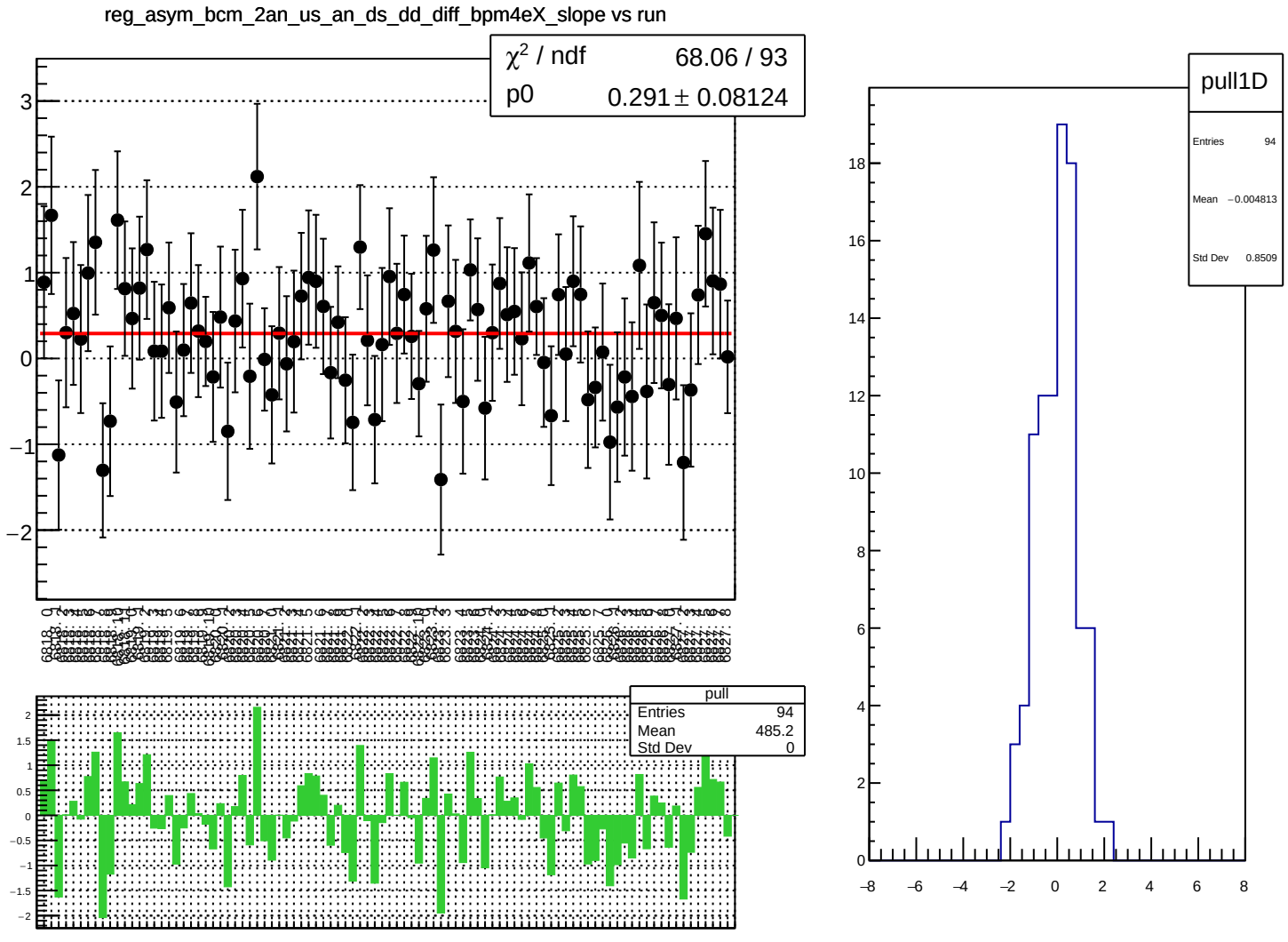

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.8 / 93
p0 −0.07583 ± 0.1998
pull
Entries 94
Mean −3432
Std Dev 0
pull1D
Entries 94
Mean −0.00156
Std Dev 1.056

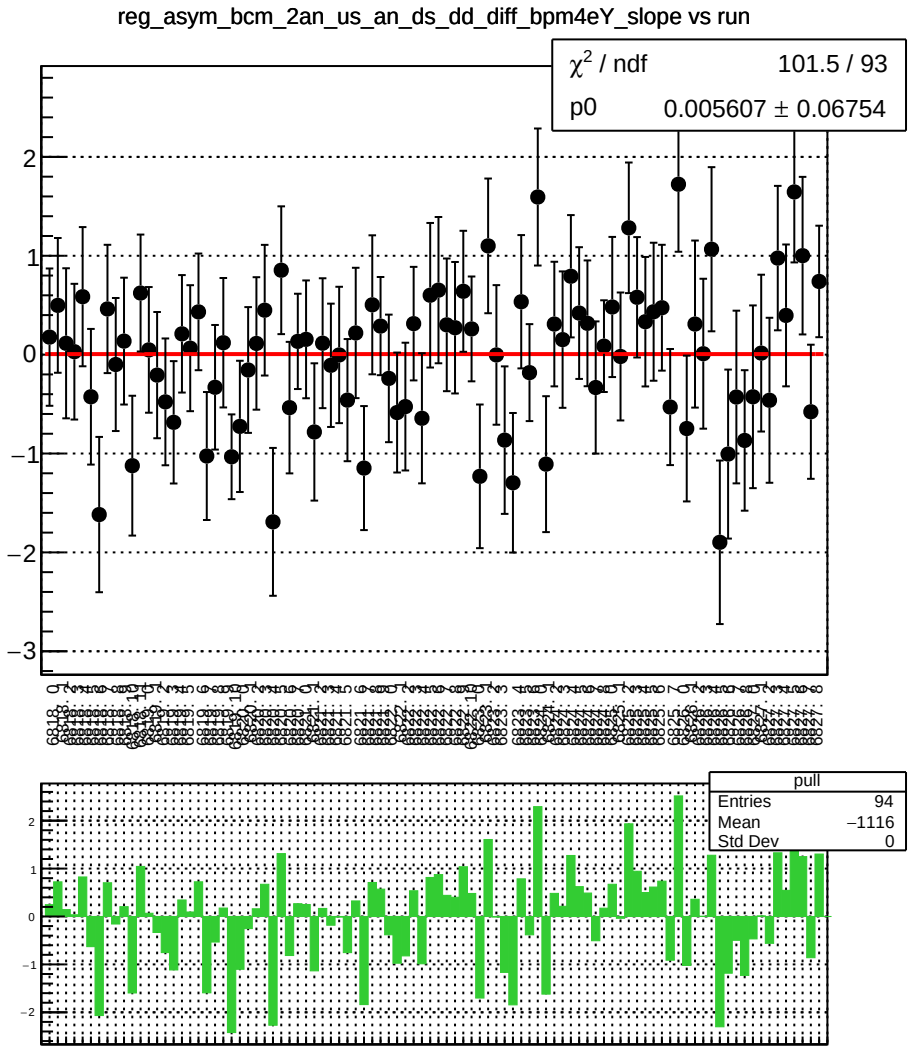

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 58.64 / 93
p0 −0.1367 ± 0.009738
pull
Entries 94
Mean −1569
Std Dev 0

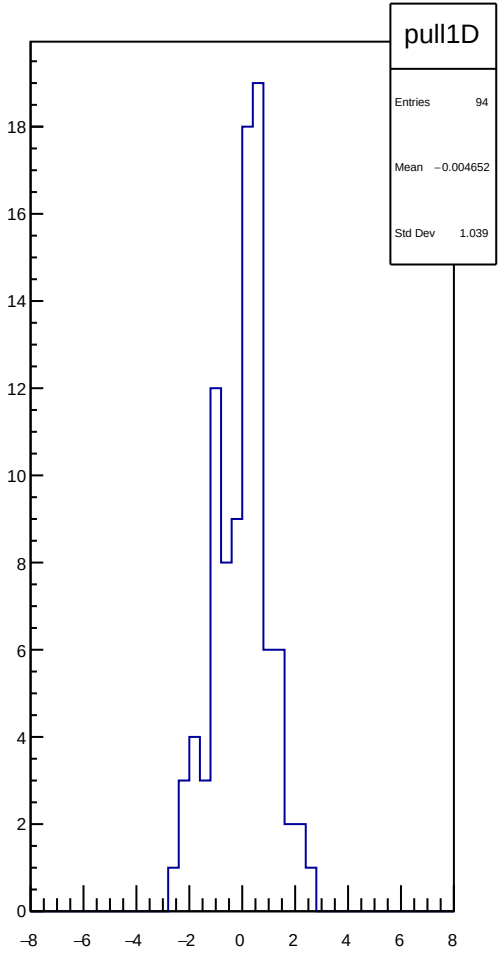

pull1D
Entries 94
Mean 0.00399
Std Dev 0.7898

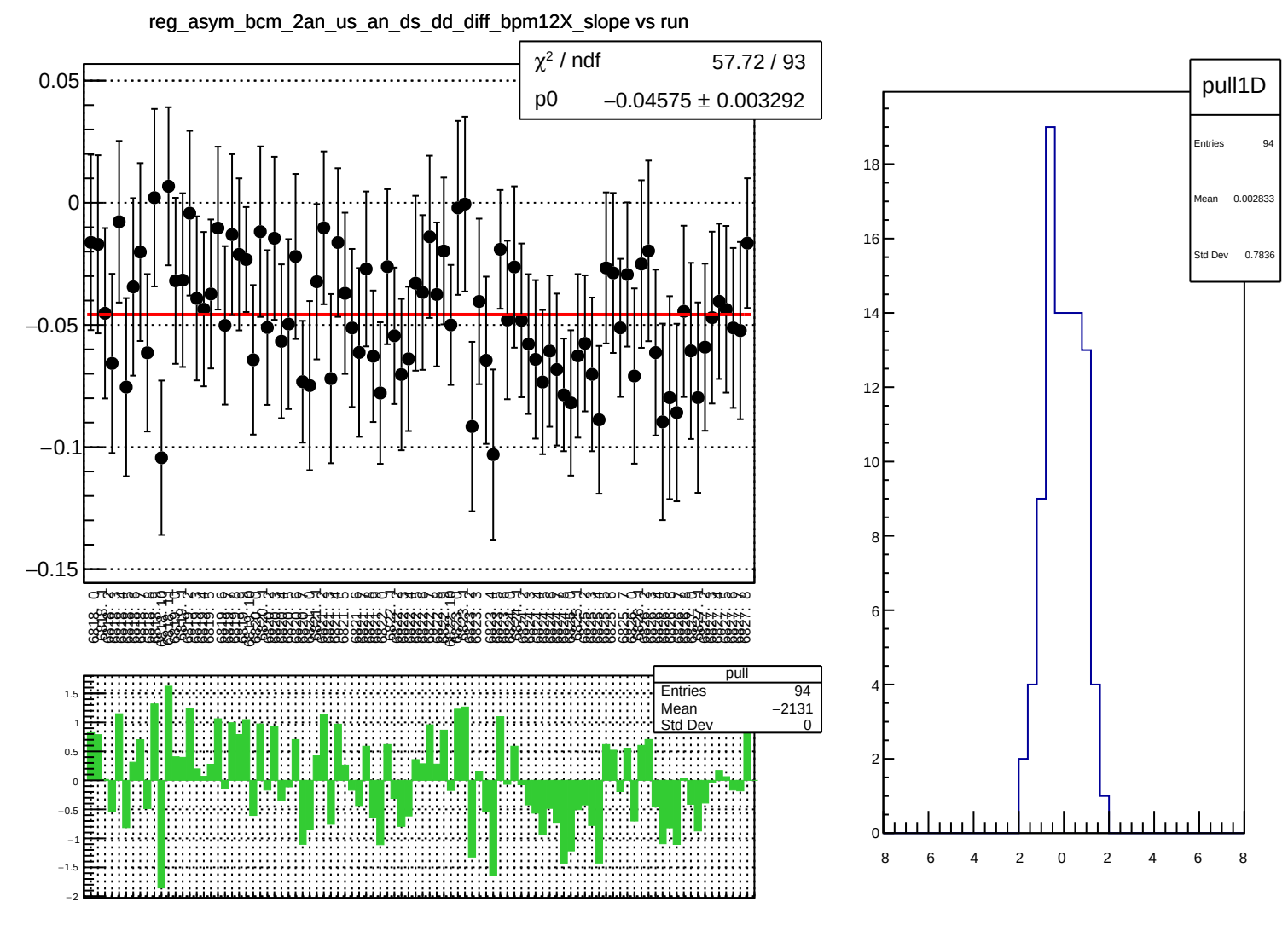

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 67.58 / 93
p0 −0.3808 ± 0.08695
pull
Entries 94
Mean 336.8
Std Dev 0
pull1D
Entries 94
Mean 0.006026
Std Dev 0.8479

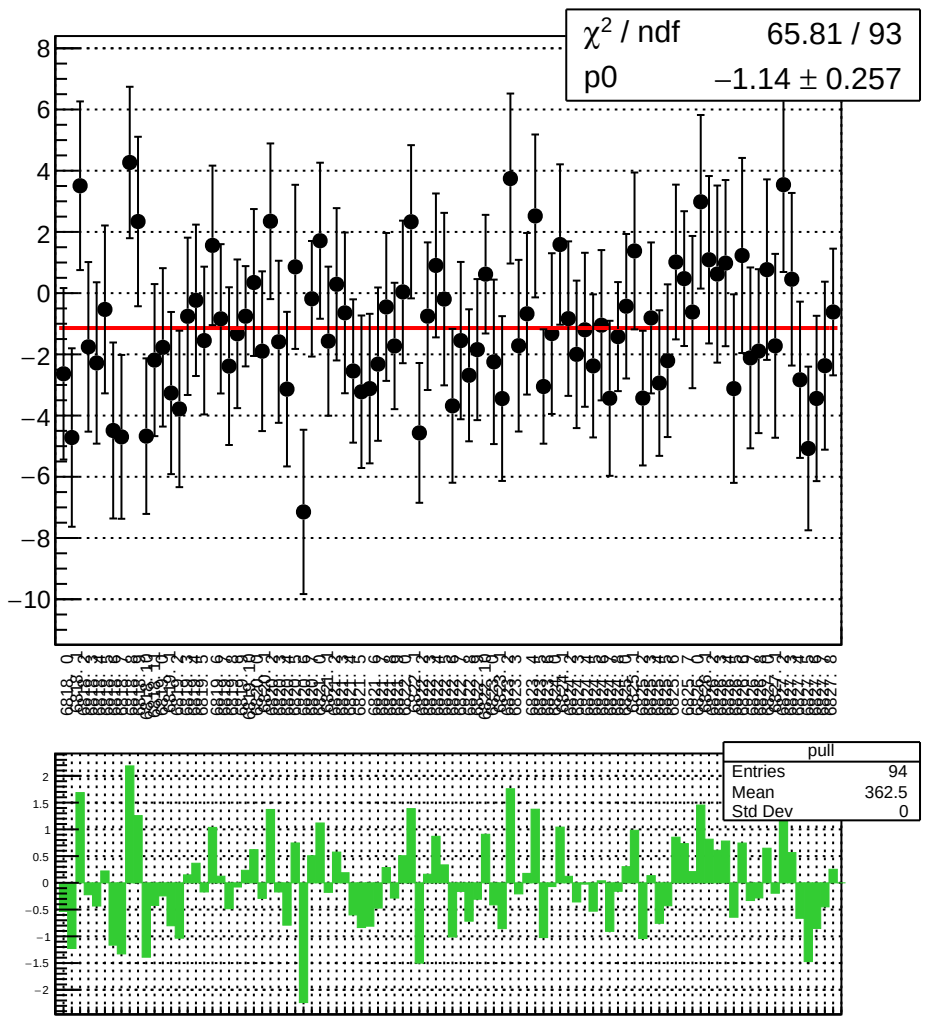

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.4 / 93
p0 0.1377 ± 0.05846
pull
Entries 94
Mean −173.2
Std Dev 0
pull1D
Entries 94
Mean 0.01531
Std Dev 1.038

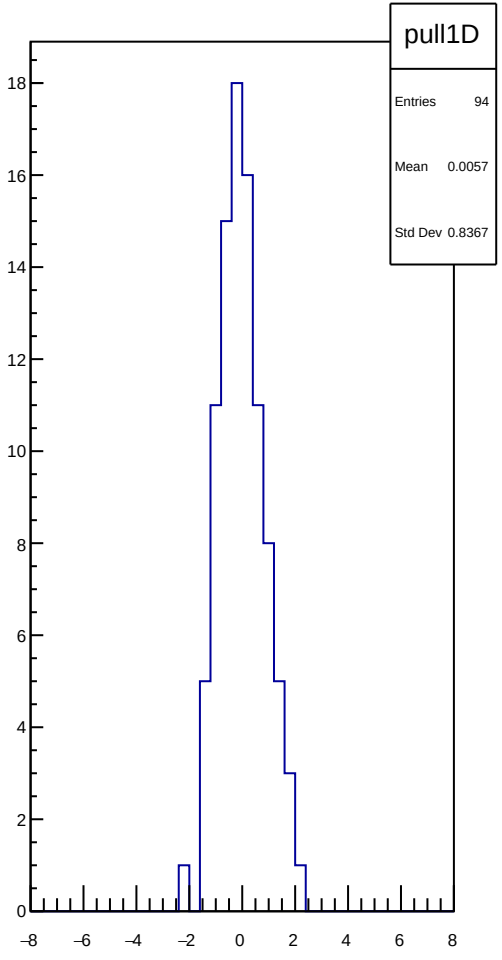

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 68.06 / 93
p0 0.291 ± 0.08124
pull
Entries 94
Mean 485.2
Std Dev 0
pull1D
Entries 94
Mean −0.004813
Std Dev 0.8509

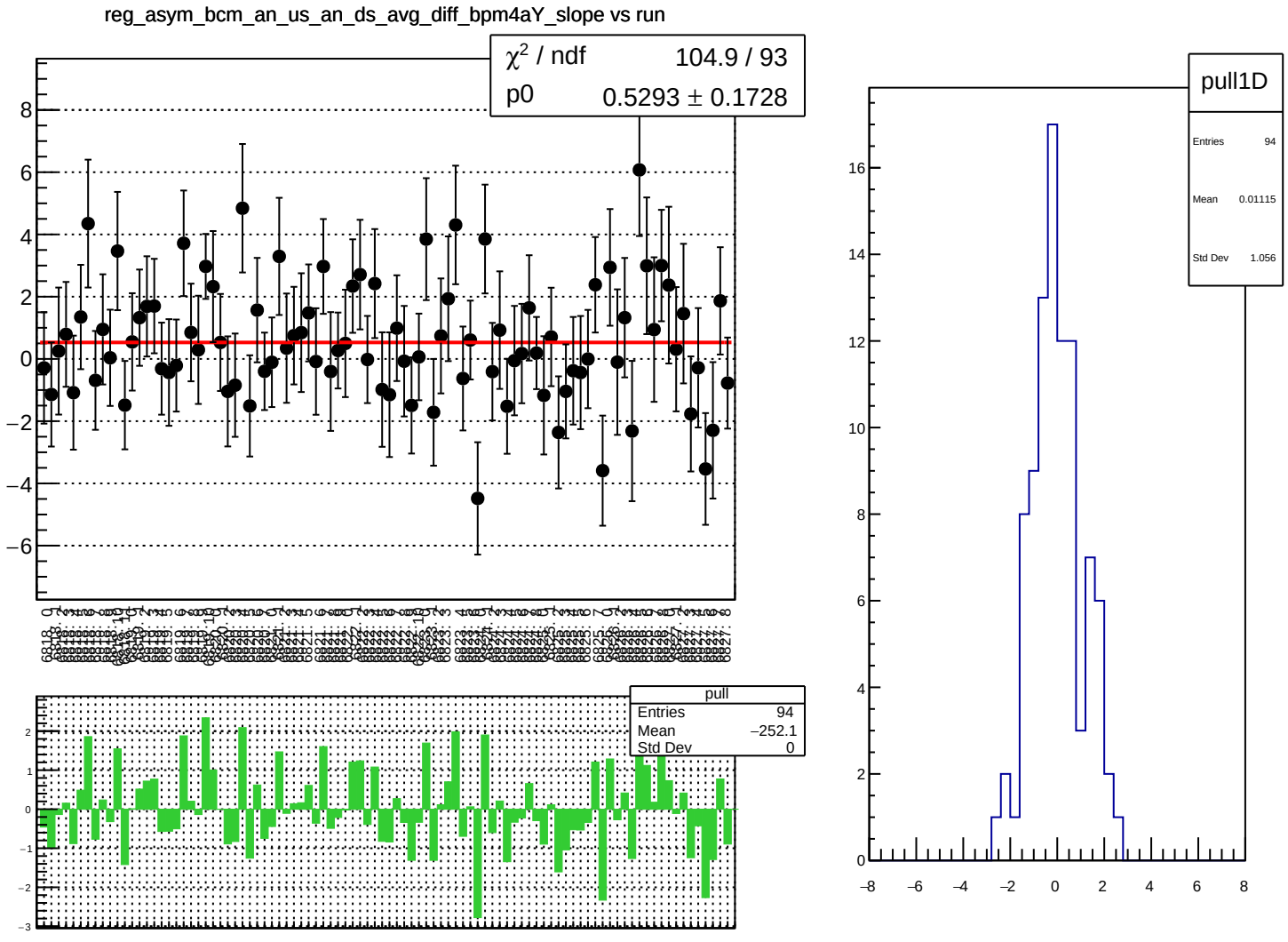

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.5 / 93
p0 0.005607 ± 0.06754
pull
Entries 94
Mean −1116
Std Dev 0

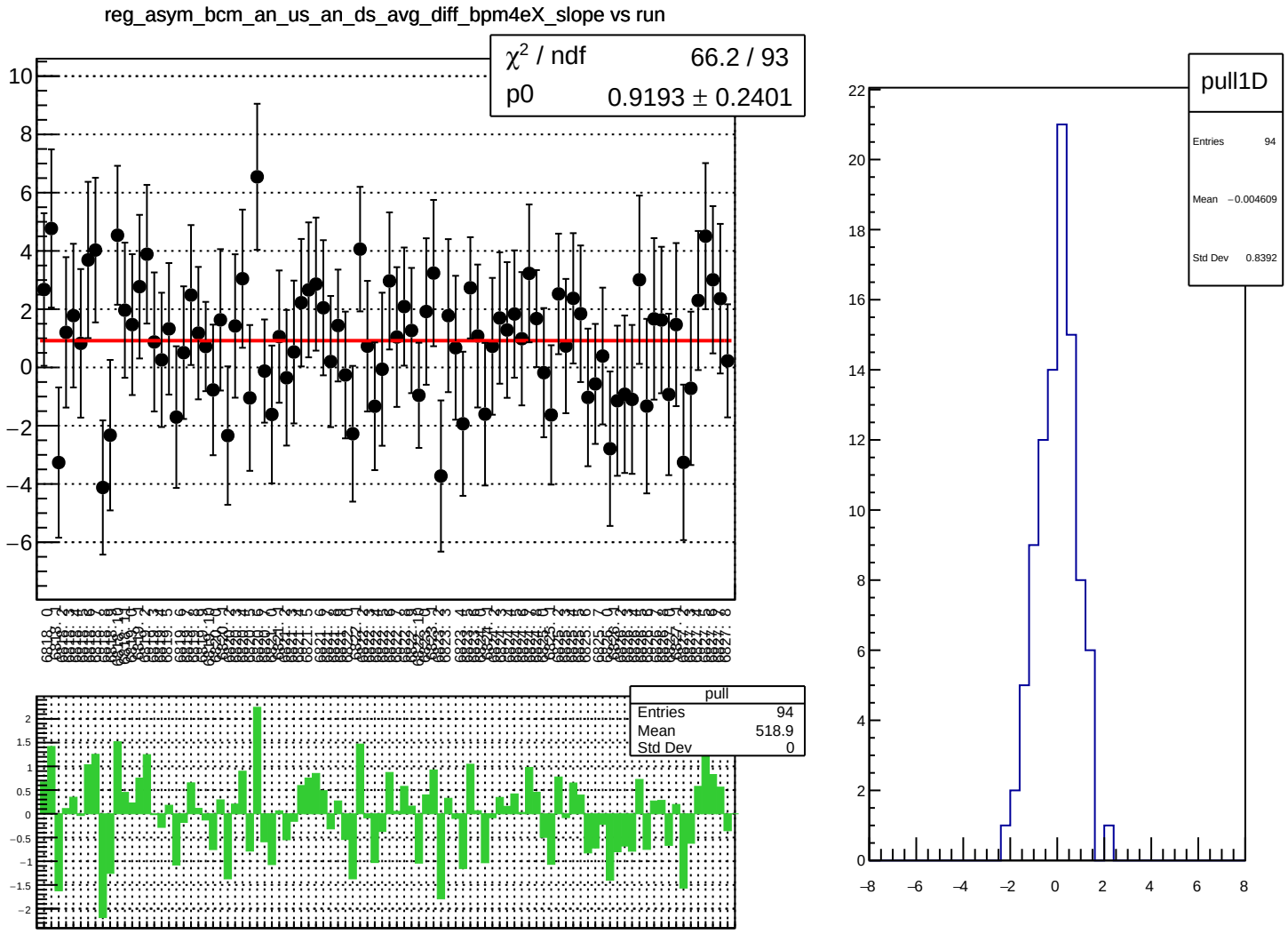

pull1D
Entries 94
Mean −0.004652
Std Dev 1.039

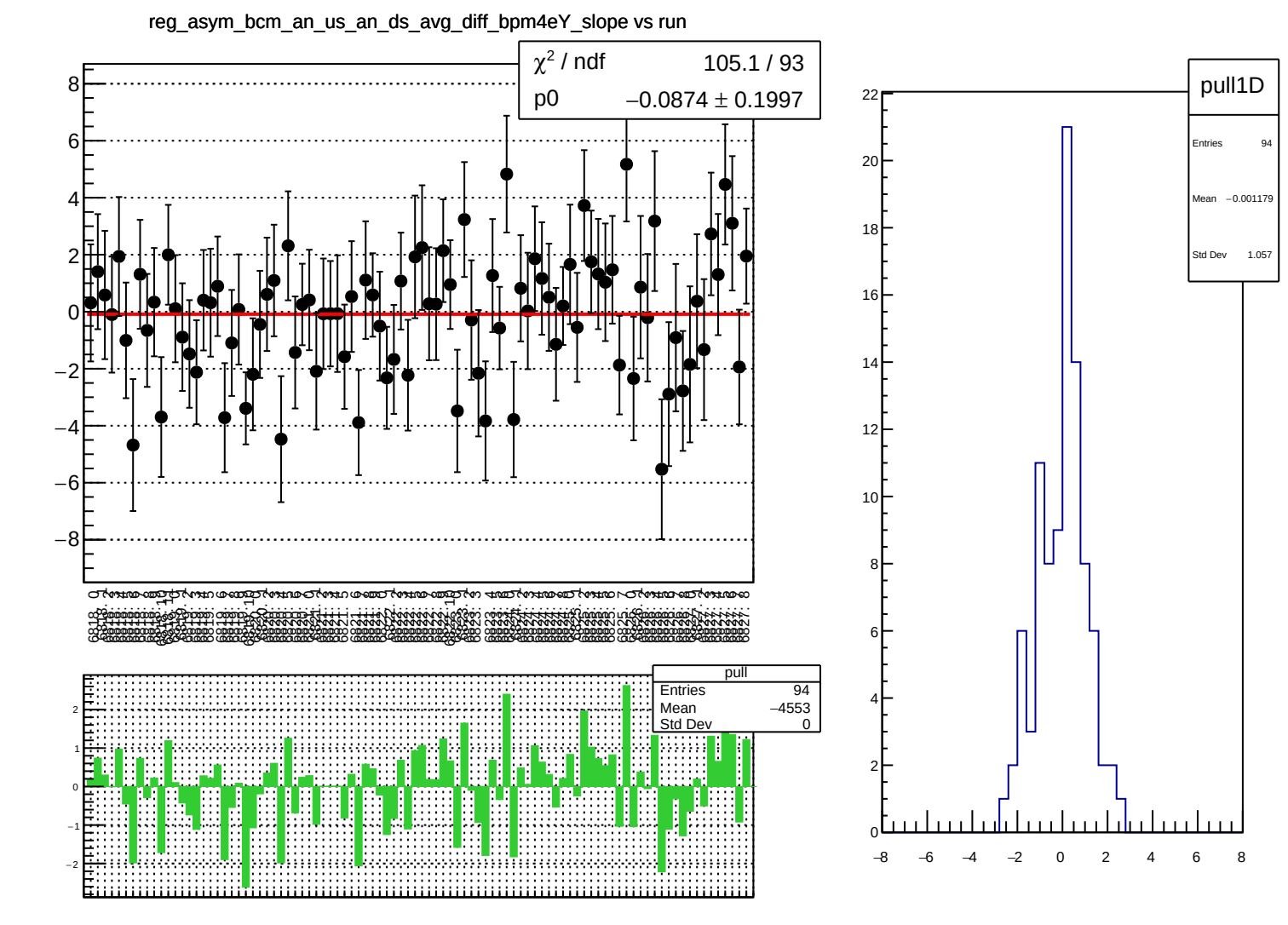

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 57.72 / 93
p0 −0.04575 ± 0.003292
0.05
0
−0.05
−0.1
−0.15
pull
Entries 94
Mean −2131
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 94
Mean 0.002833
Std Dev 0.7836
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

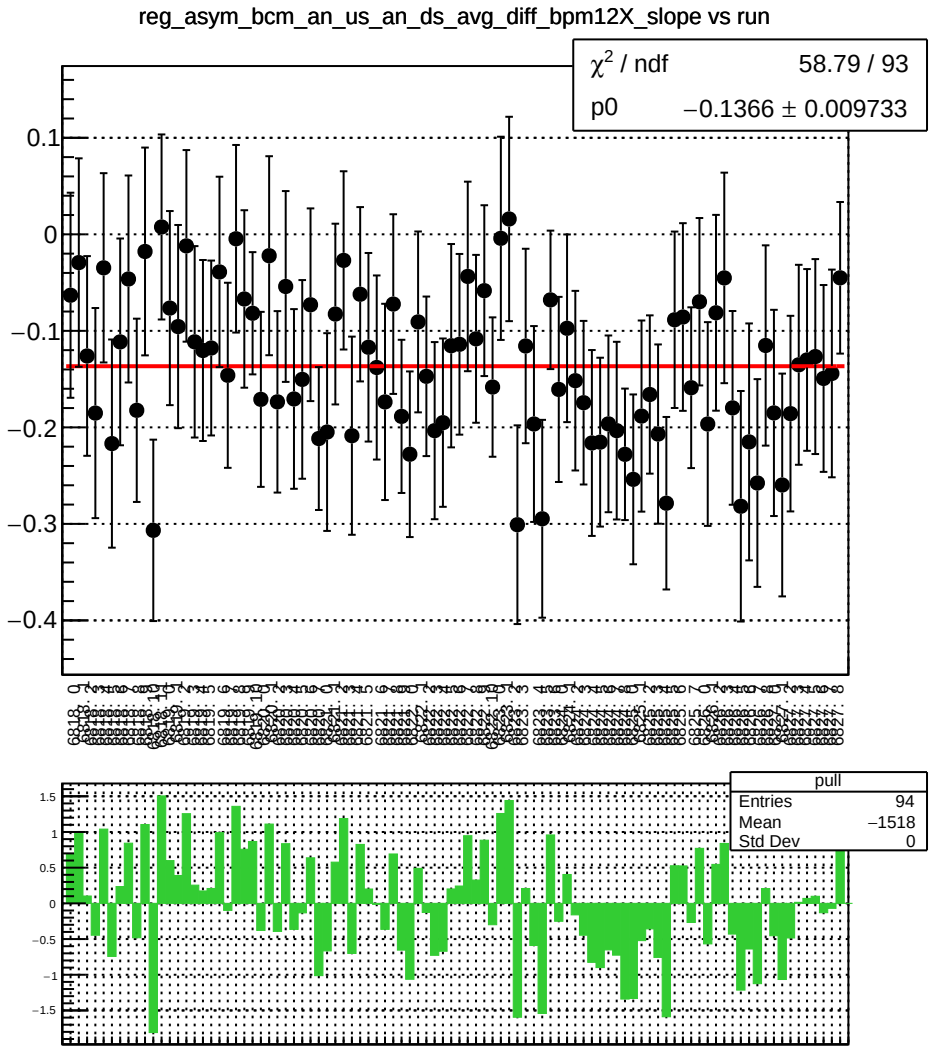

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 65.81 / 93
p0 −1.14 ± 0.257
pull
Entries 94
Mean 362.5
Std Dev 0

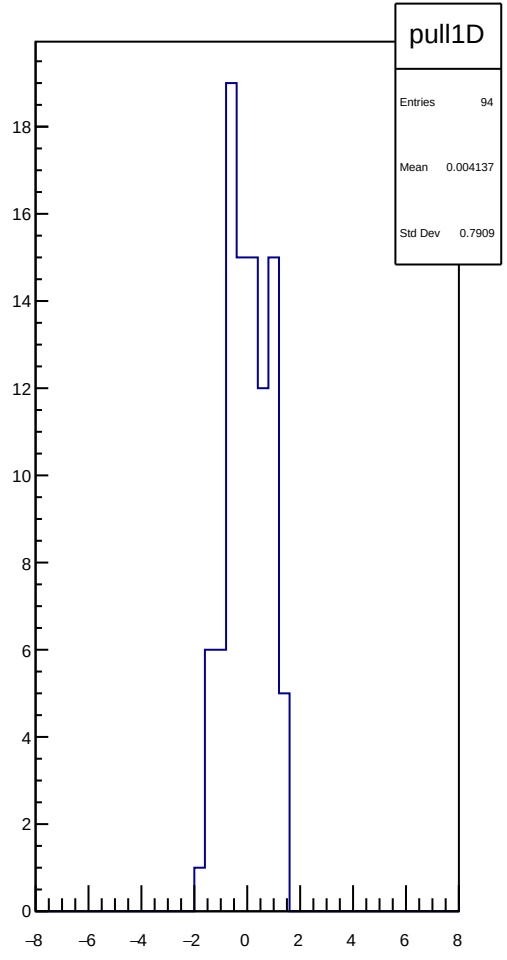

pull1D
Entries 94
Mean 0.0057
Std Dev 0.8367

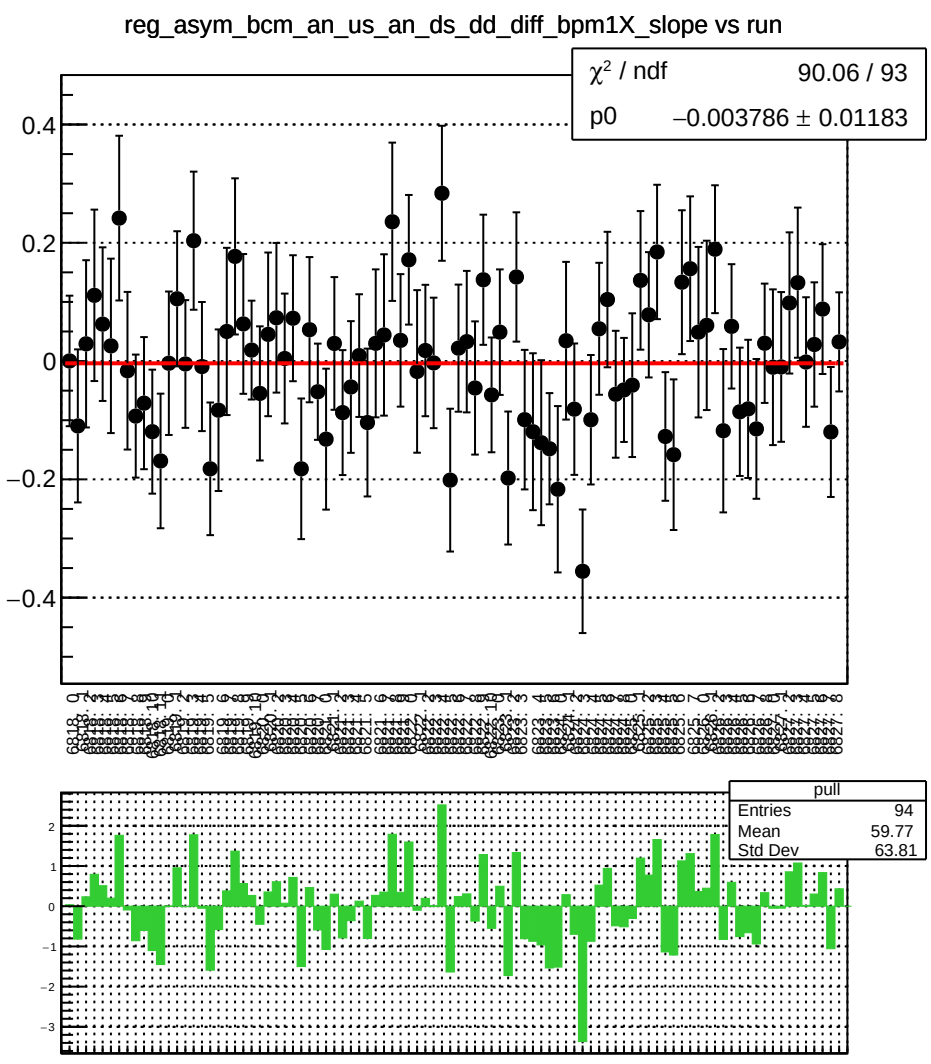

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 93
p0 0.5293 ± 0.1728
pull
Entries 94
Mean −252.1
Std Dev 0
pull1D
Entries 94
Mean 0.01115
Std Dev 1.056

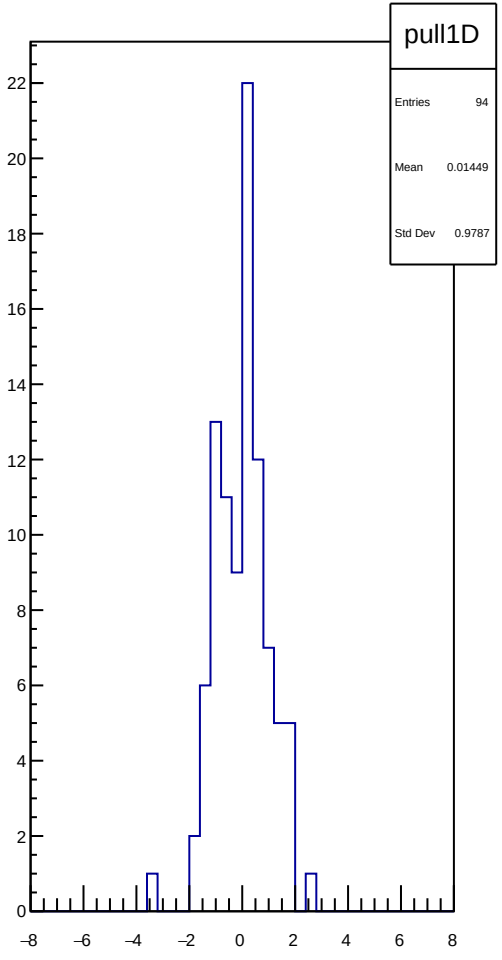

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.2 / 93
p0 0.9193 ± 0.2401
pull
Entries 94
Mean 518.9
Std Dev 0
pull1D
Entries 94
Mean −0.004609
Std Dev 0.8392

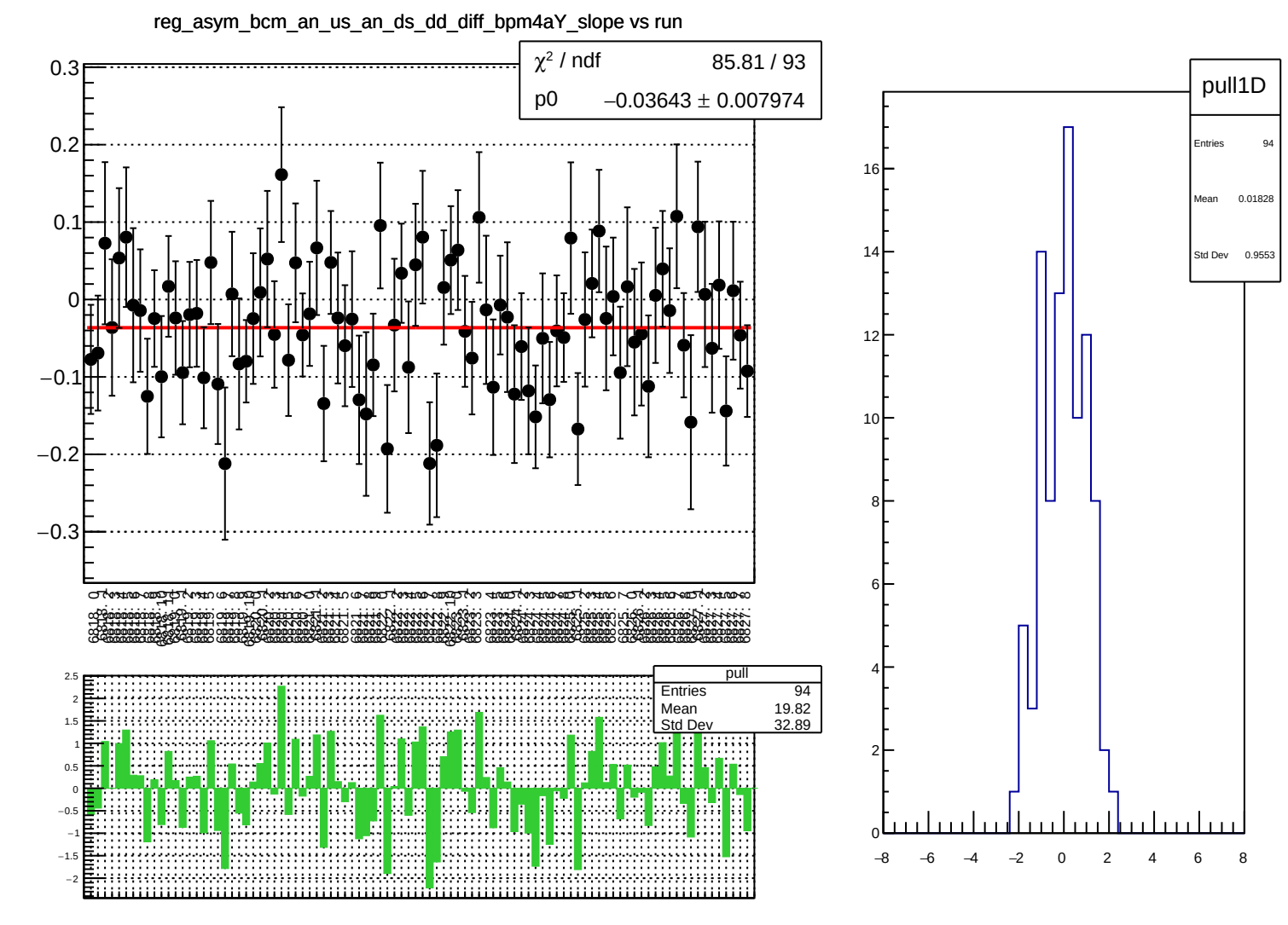

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 105.1 / 93
p0 −0.0874 ± 0.1997
pull
Entries 94
Mean −4553
Std Dev 0
pull1D
Entries 94
Mean −0.001179
Std Dev 1.057

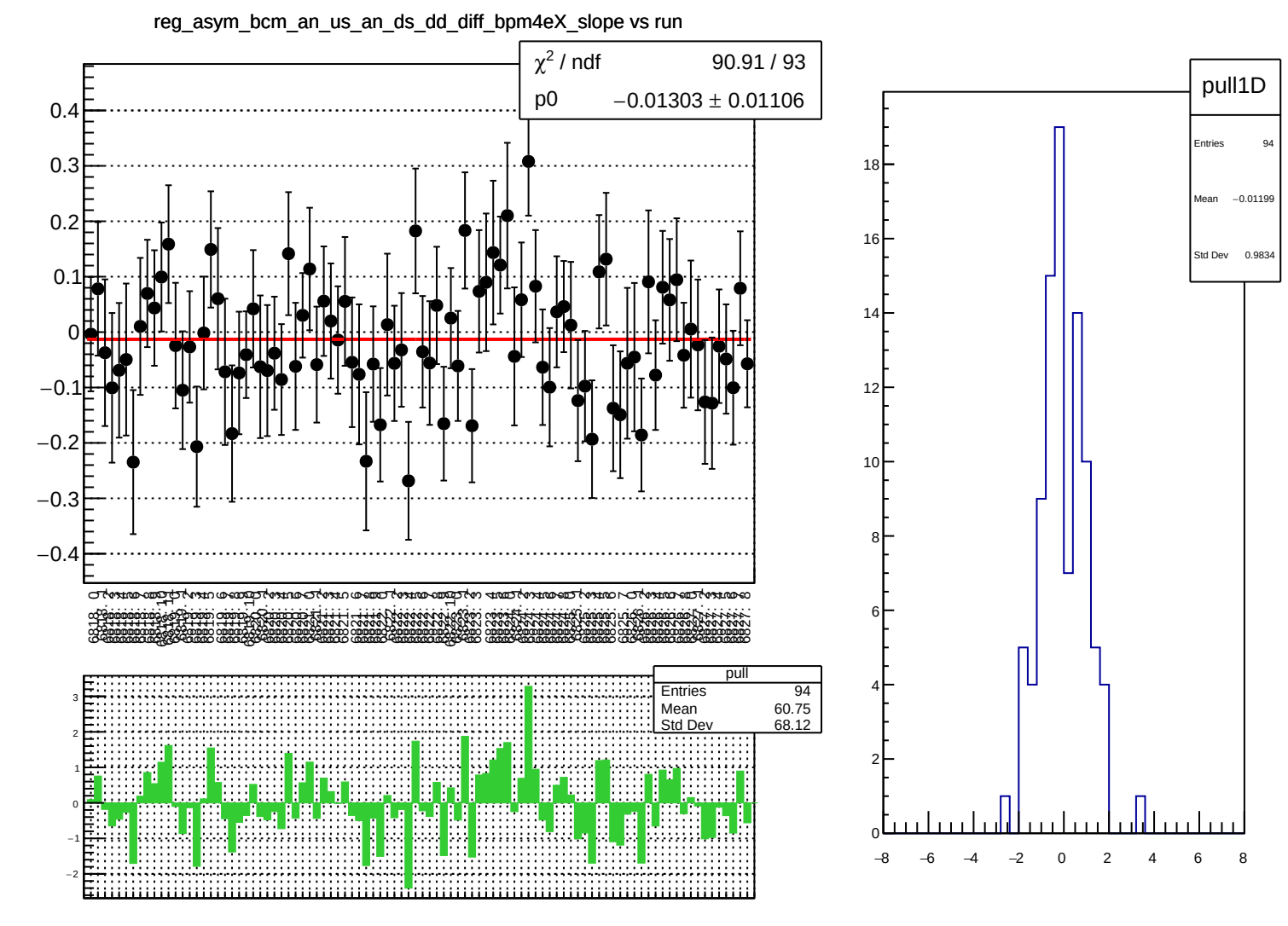

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 58.79 / 93
p0 −0.1366 ± 0.009733
pull
Entries 94
Mean −1518
Std Dev 0

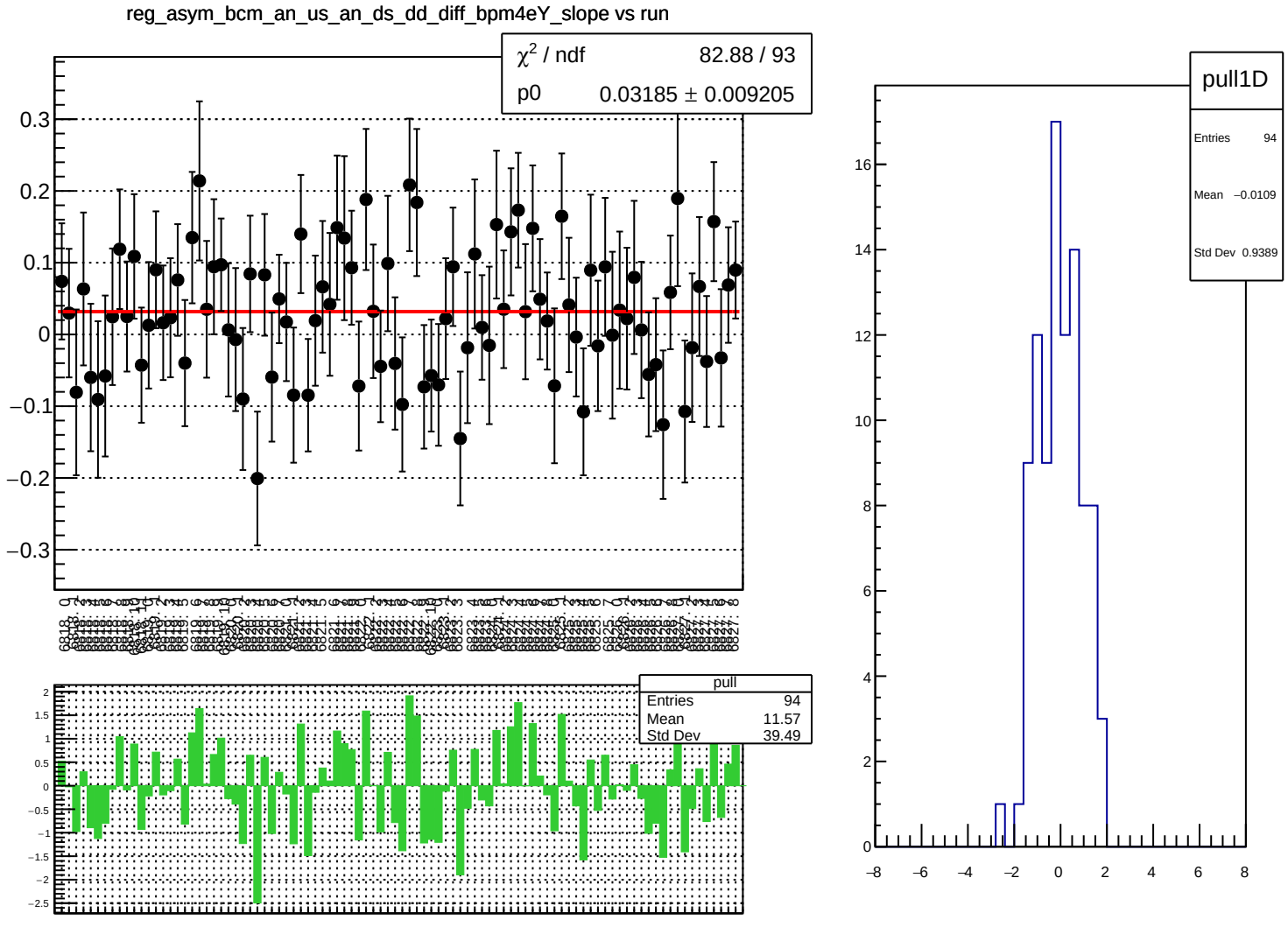

pull1D
Entries 94
Mean 0.004137
Std Dev 0.7909

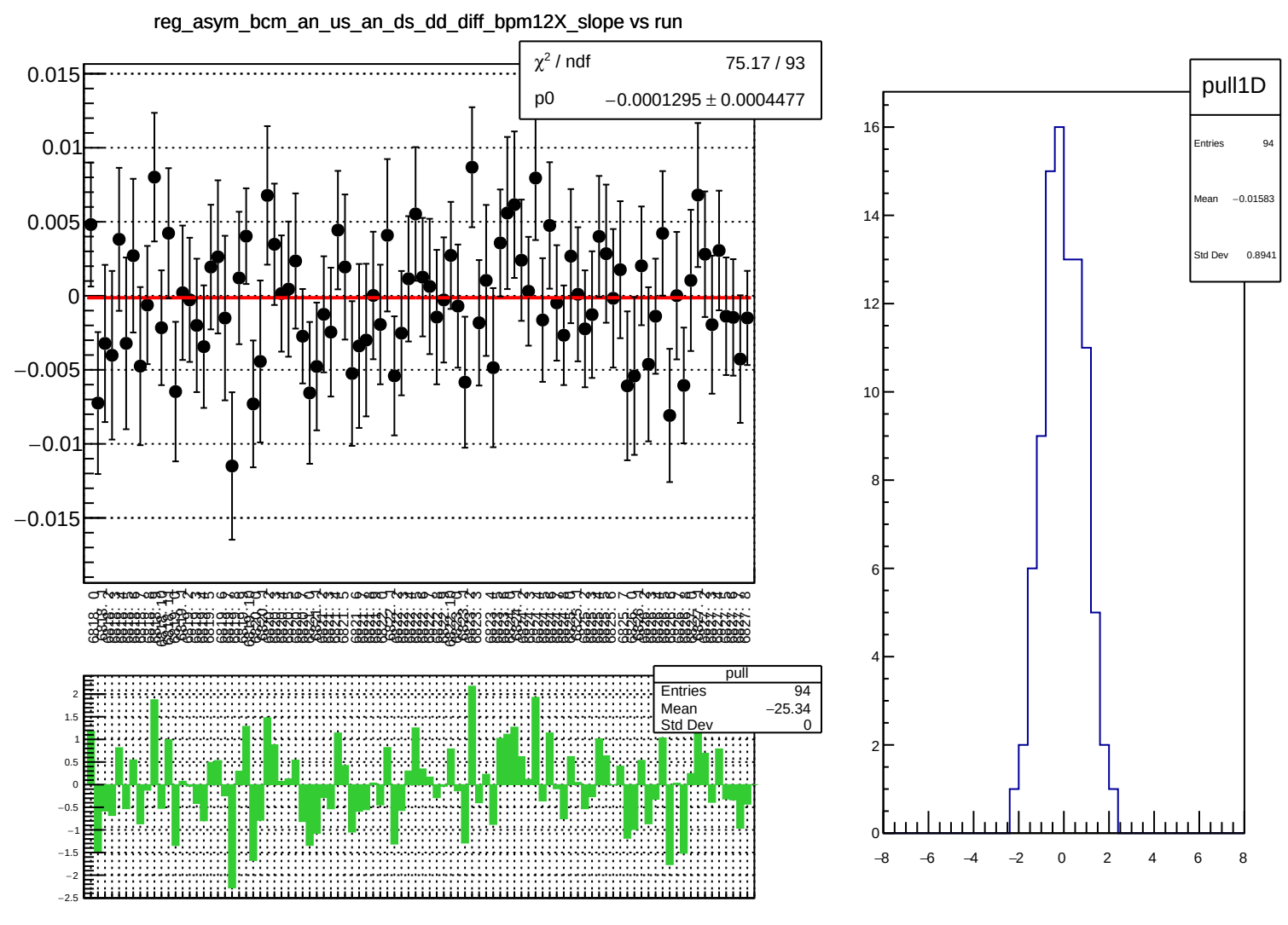

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 90.06 / 93
p0 −0.003786 ± 0.01183
pull
Entries 94
Mean 59.77
Std Dev 63.81

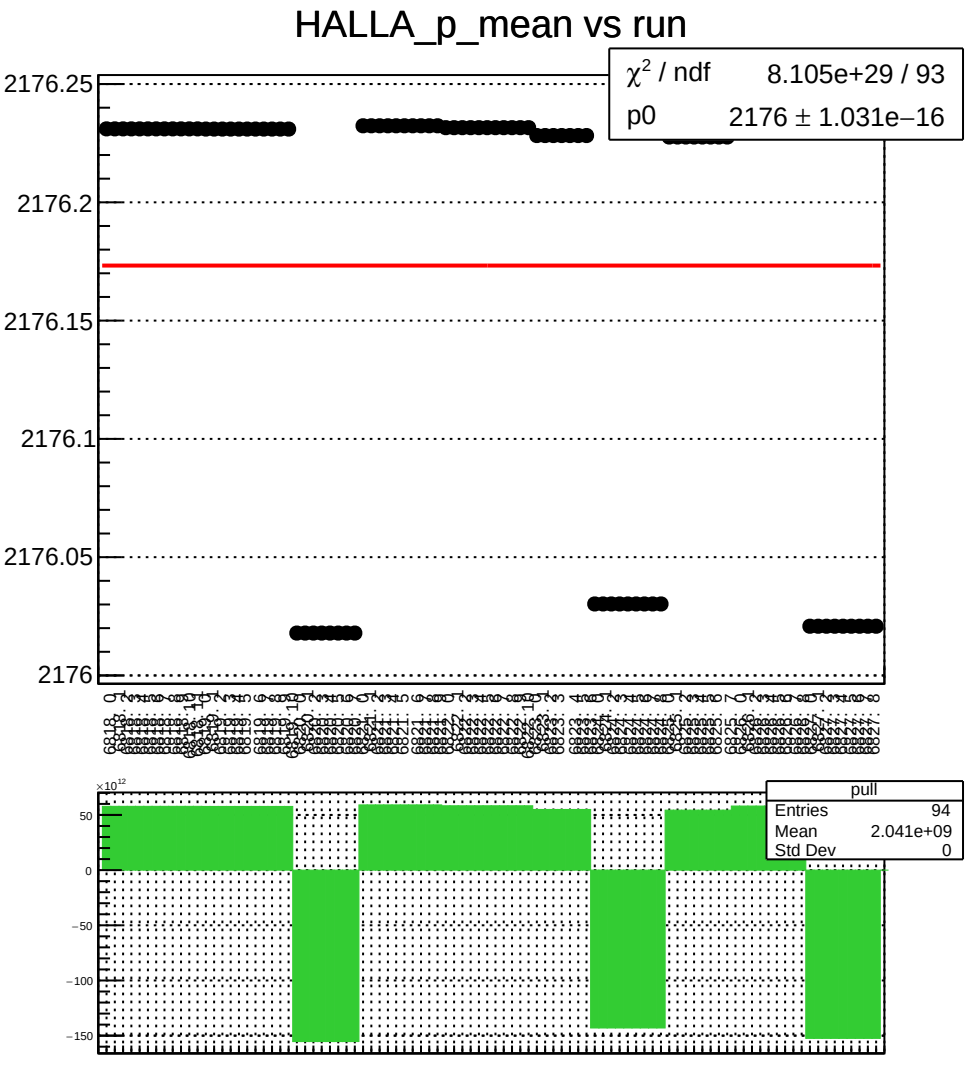

pull1D
Entries 94
Mean 0.01449
Std Dev 0.9787

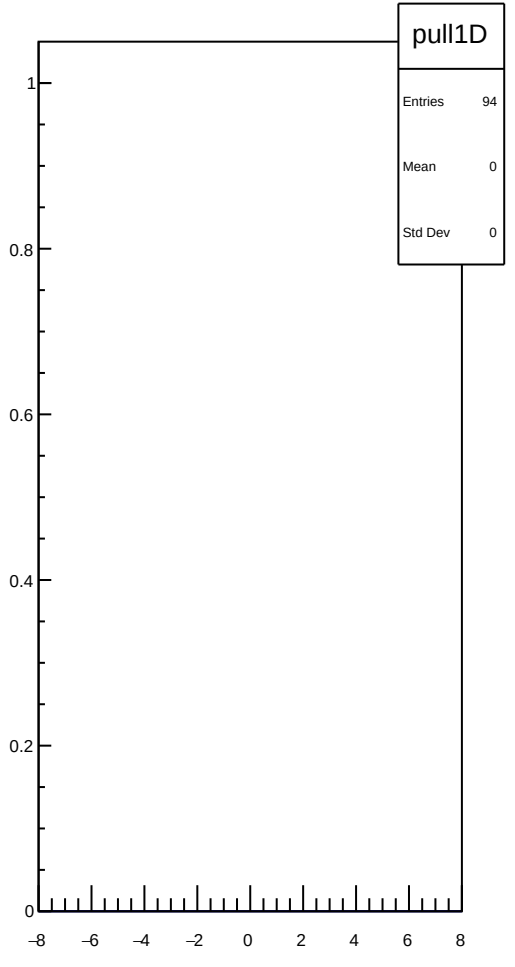

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.81 / 93
p0 −0.03643 ± 0.007974
pull
Entries 94
Mean 19.82
Std Dev 32.89
pull1D
Entries 94
Mean 0.01828
Std Dev 0.9553

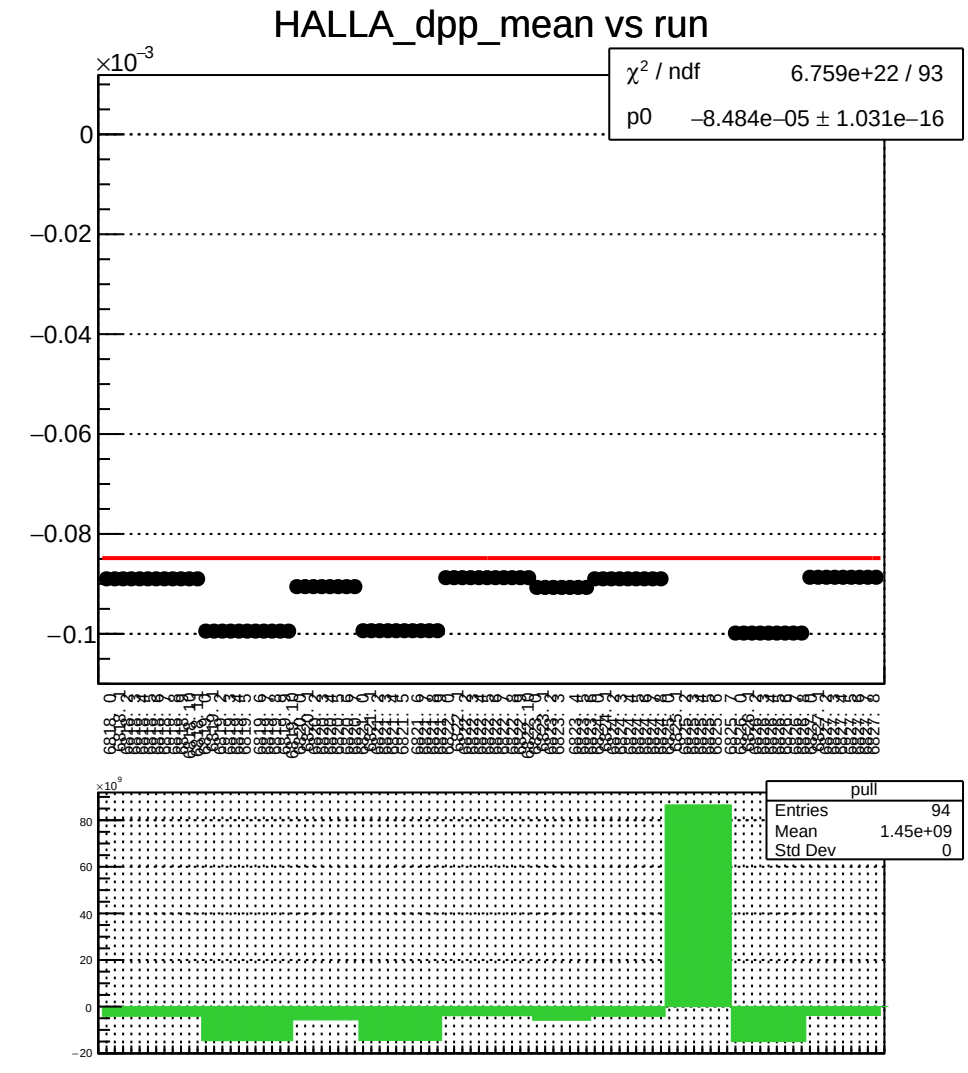

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 90.91 / 93
p0 −0.01303 ± 0.01106
pull
Entries 94
Mean 60.75
Std Dev 68.12
pull1D
Entries 94
Mean −0.01199
Std Dev 0.9834

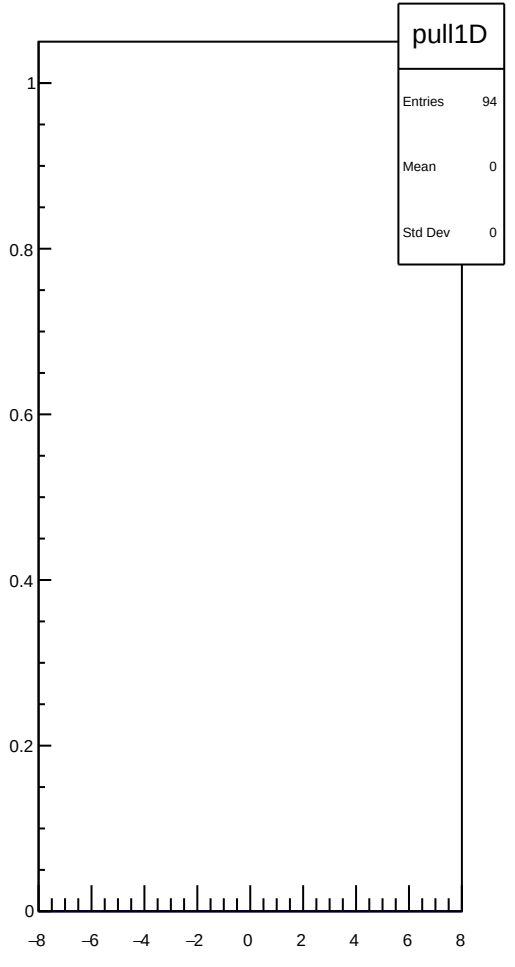

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.88 / 93
p0 0.03185 ± 0.009205
pull
Entries 94
Mean 11.57
Std Dev 39.49
pull1D
Entries 94
Mean −0.0109
Std Dev 0.9389

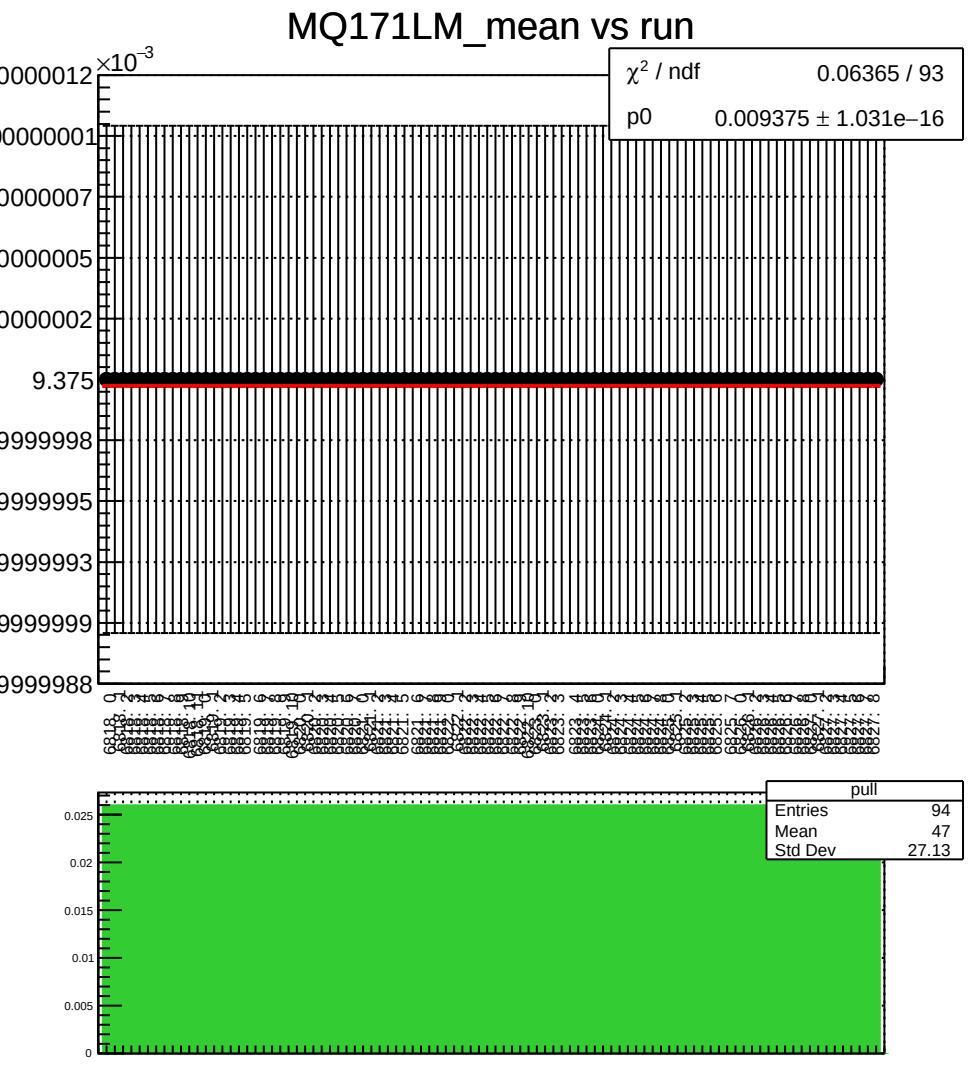

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 75.17 / 93
p0 −0.0001295 ± 0.0004477
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 94
Mean −25.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 94
Mean −0.01583
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

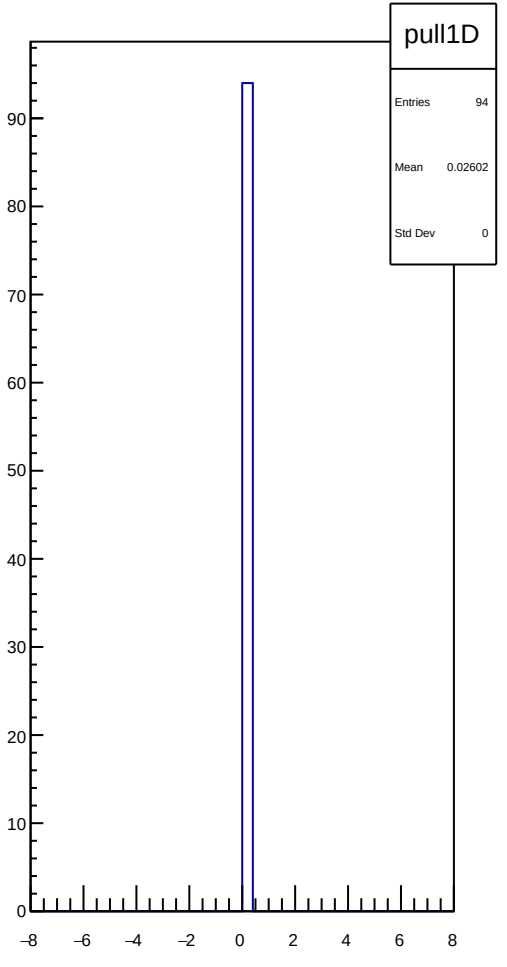

HALLA_p_mean vs run
χ² / ndf 8.105e+29 / 93
p0 2176 ± 1.031e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 94
Mean 2.041e+09
Std Dev 0
×10¹²
50
0
−50
−100
−150

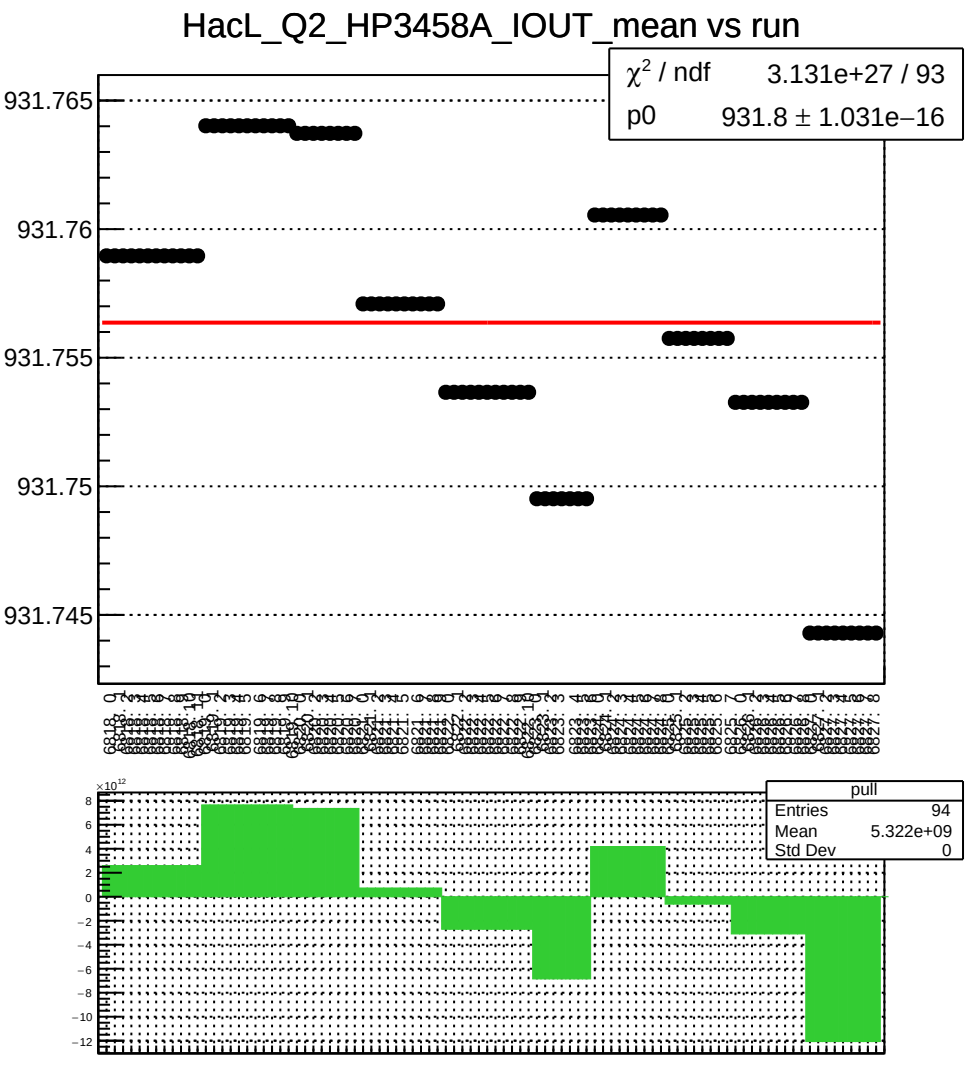

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

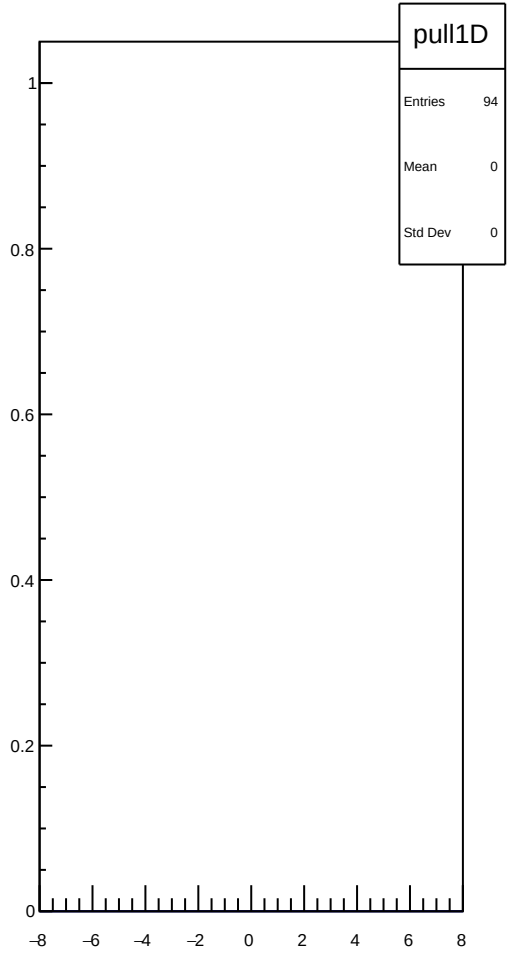

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 6.759e+22 / 93
p0 −8.484e−05 ± 1.031e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 94
Mean 1.45e+09
Std Dev 0

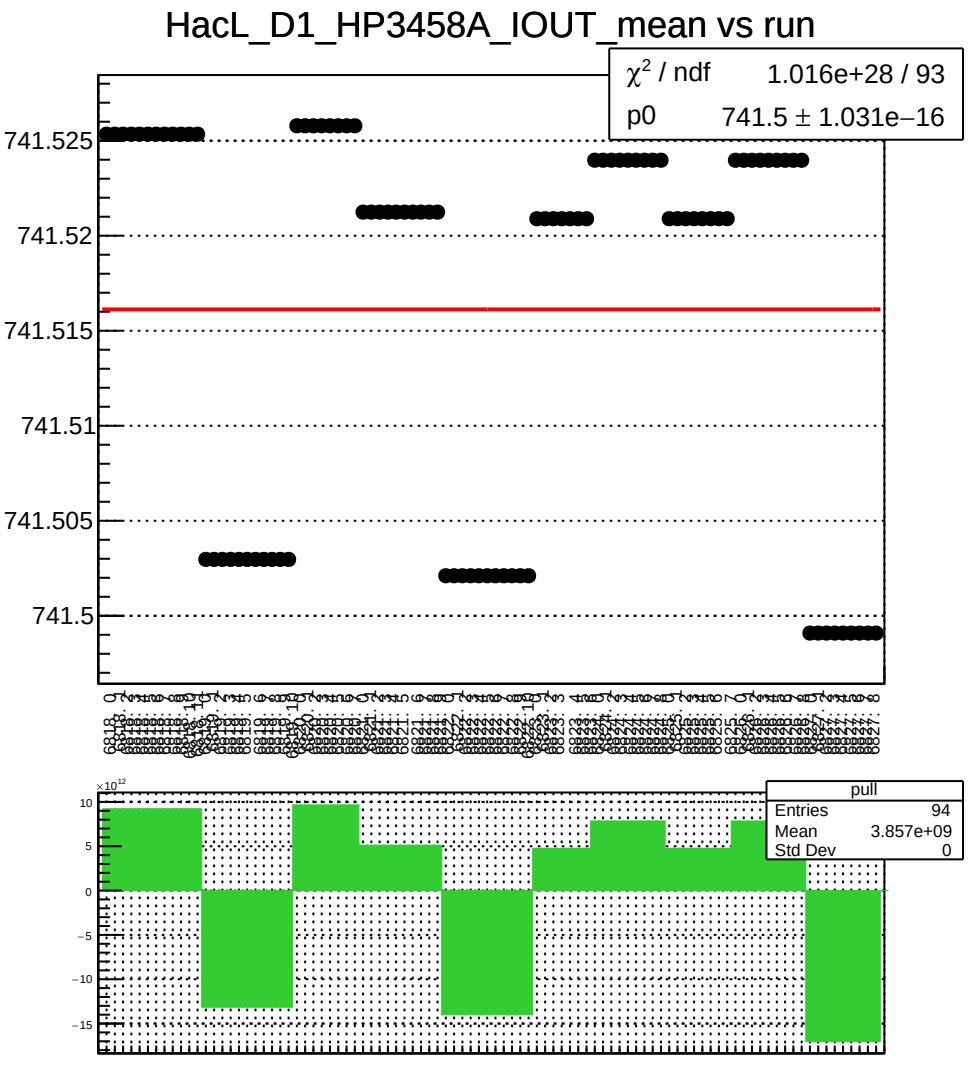

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

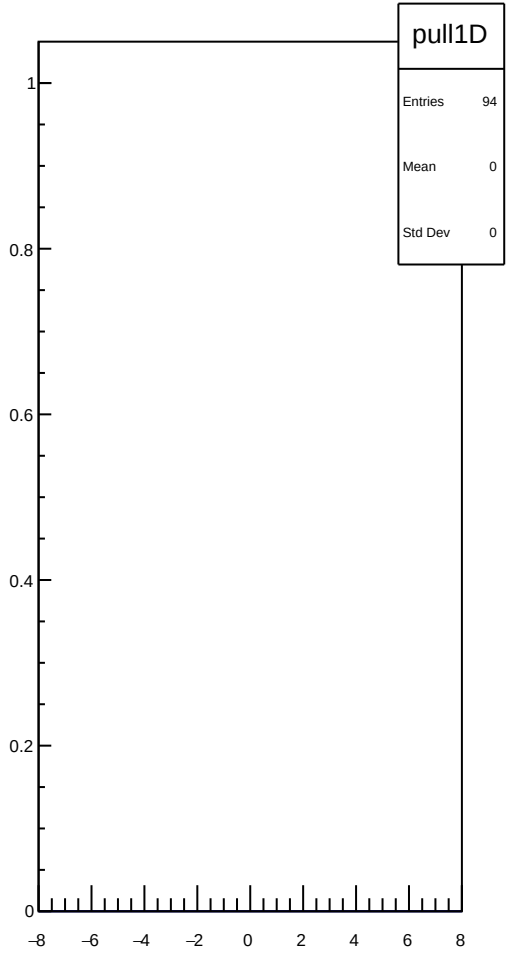

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
9.375
pull
Entries 94
Mean 47
Std Dev 27.13

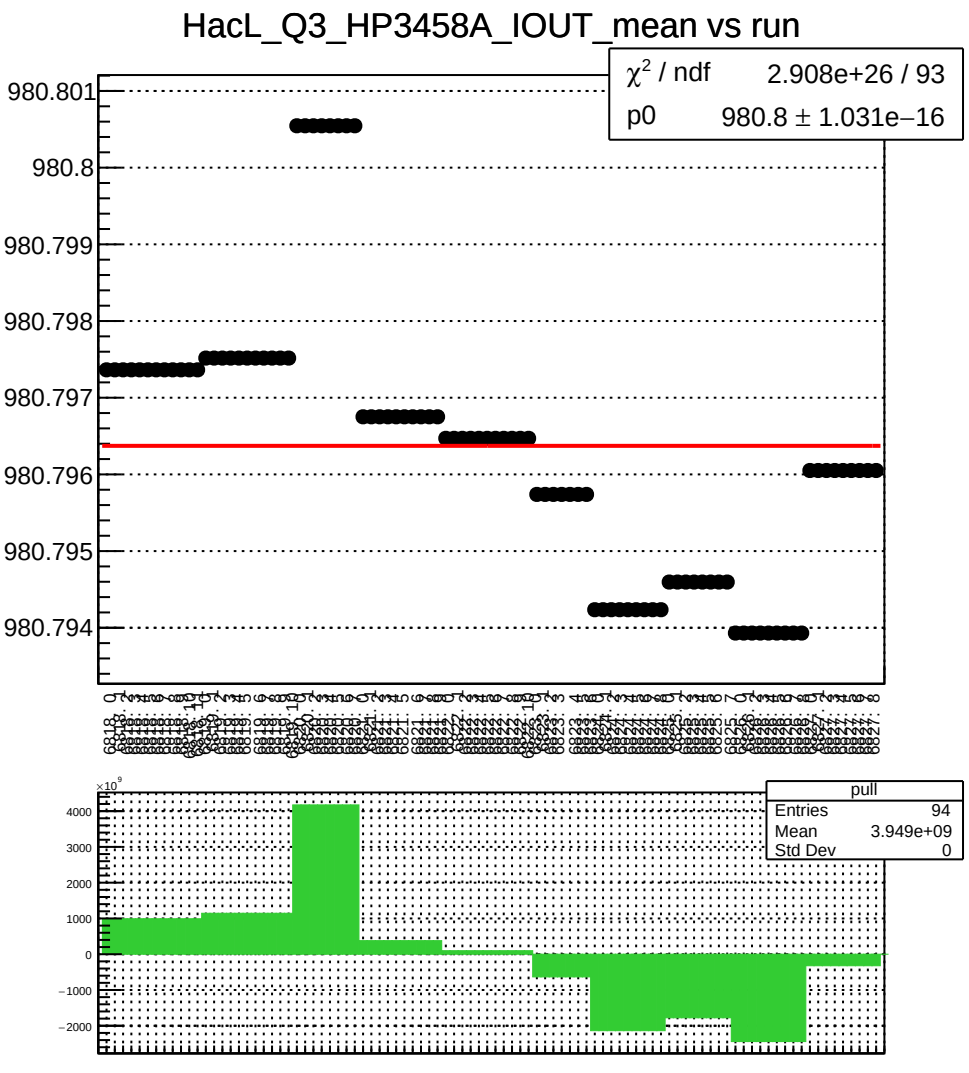

pull1D
Entries 94
Mean 0.02602
Std Dev 0

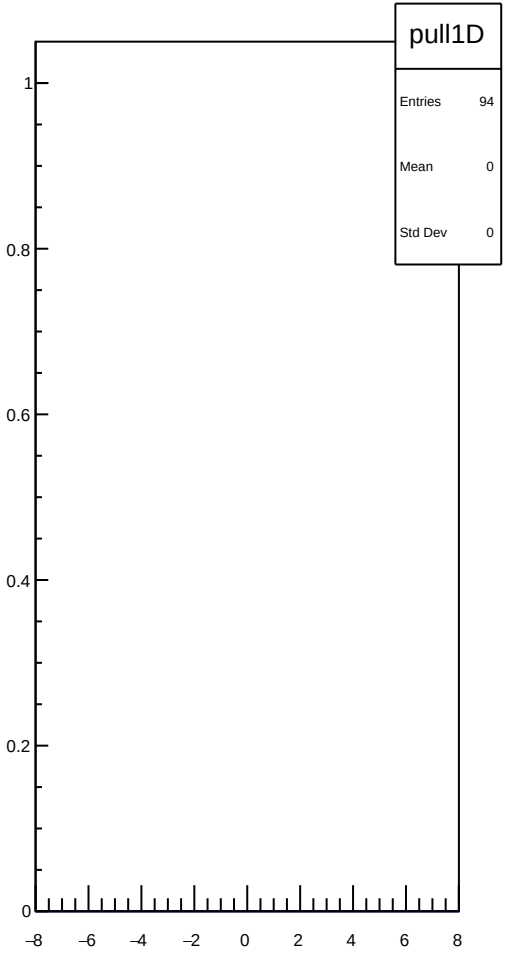

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.131e+27 / 93
p0 931.8 ± 1.031e−16
931.765
931.76
931.755
931.75
931.745
pull
Entries 94
Mean 5.322e+09
Std Dev 0
×10¹²
8
6
4
2
0
−2
−4
−6
−8
−10
−12

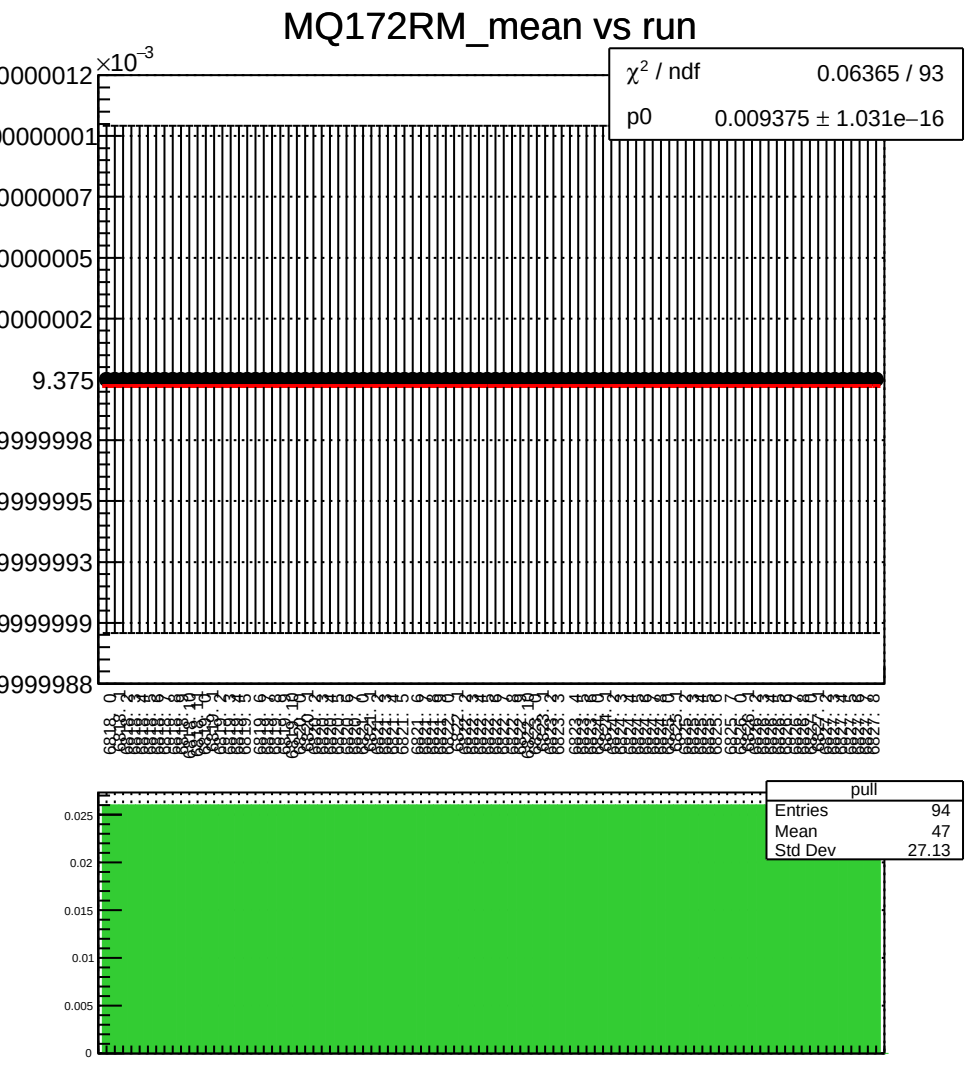

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

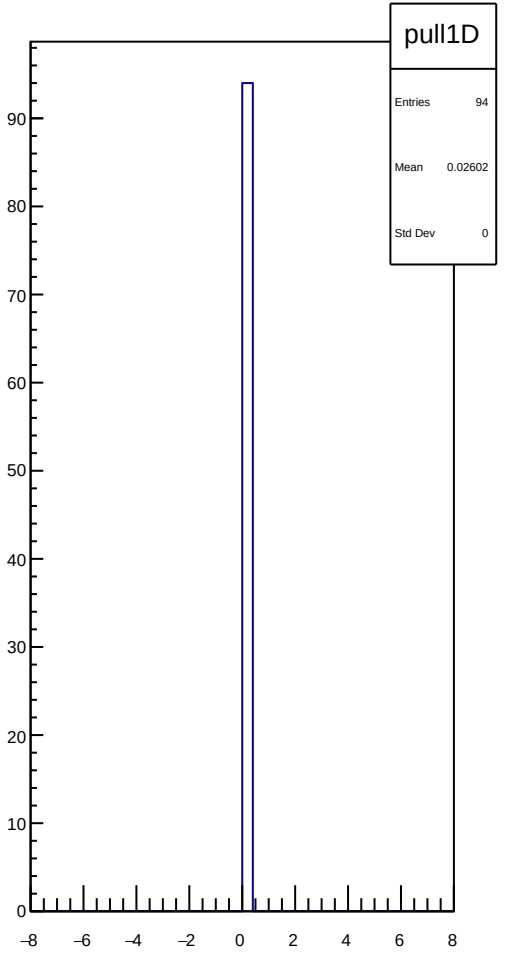

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.016e+28 / 93
p0 741.5 ± 1.031e−16
741.525
741.52
741.515
741.51
741.505
741.5
pull
Entries 94
Mean 3.857e+09
Std Dev 0
×10¹²
10
5
0
−5
−10
−15

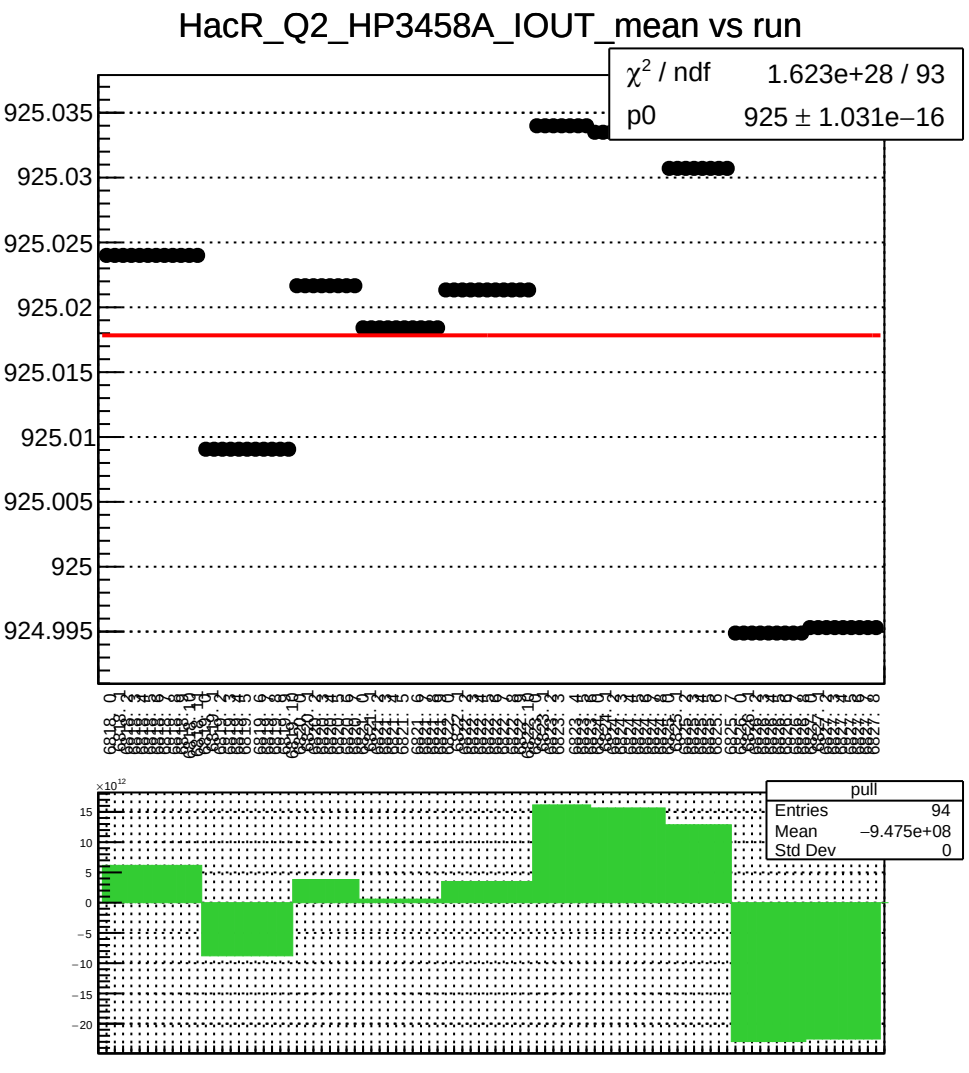

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

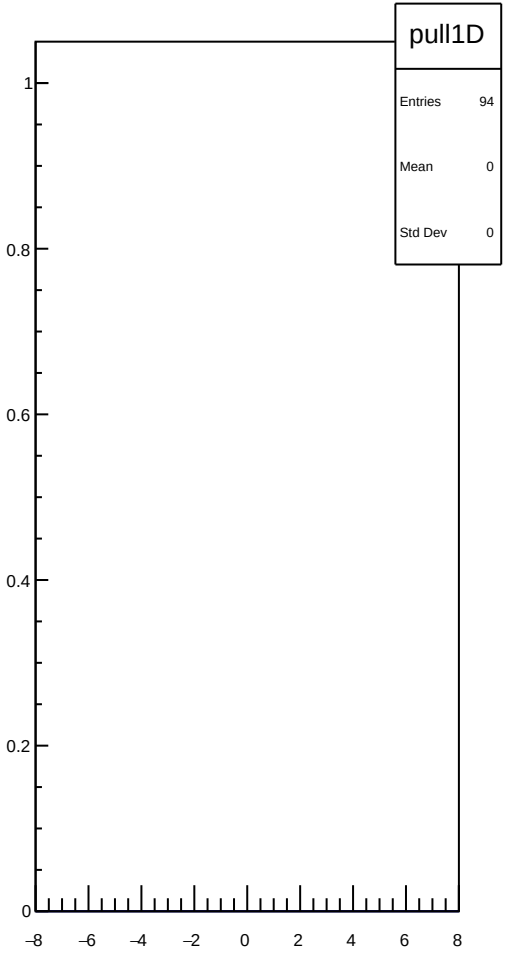

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.908e+26 / 93
p0 980.8 ± 1.031e−16
980.801
980.8
980.799
980.798
980.797
980.796
980.795
980.794
pull
Entries 94
Mean 3.949e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000

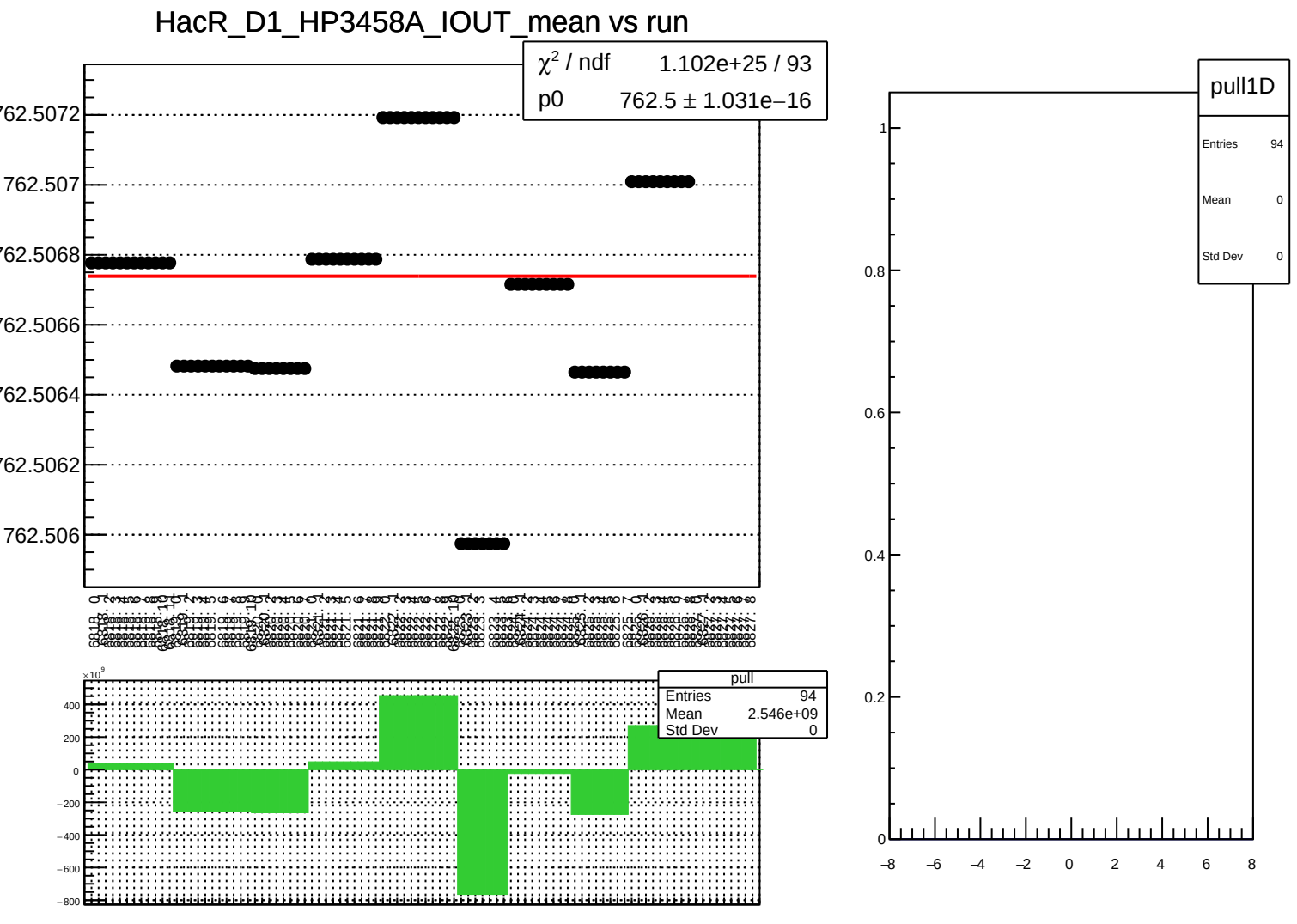

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

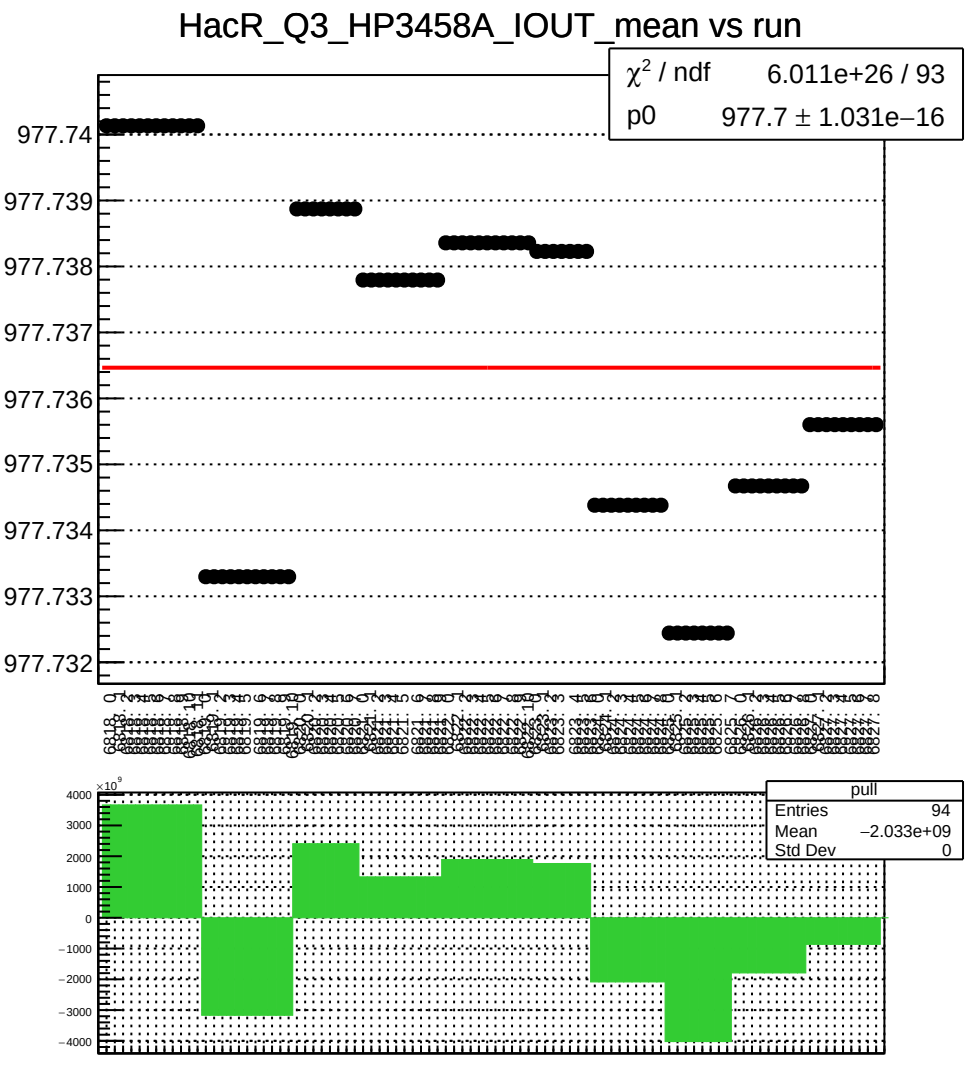

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
pull
Entries 94
Mean 47
Std Dev 27.13

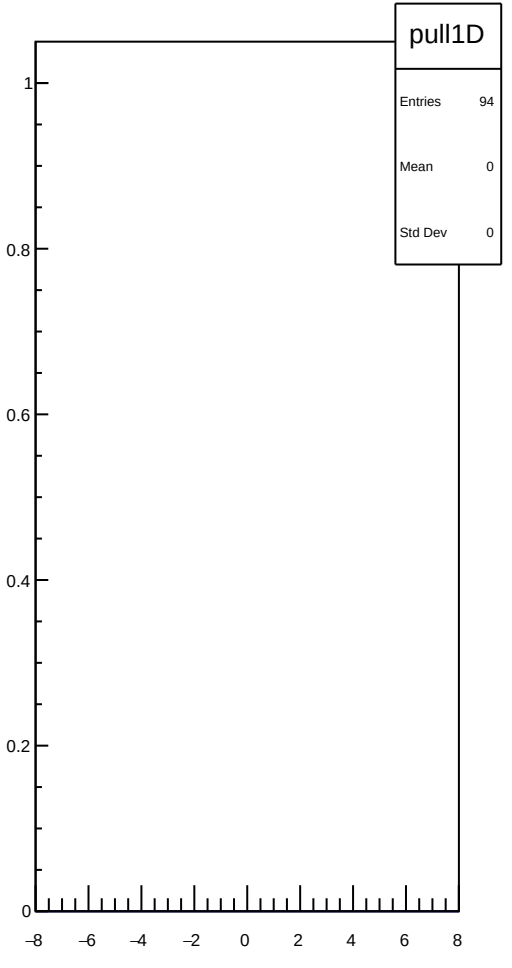

pull1D
Entries 94
Mean 0.02602
Std Dev 0

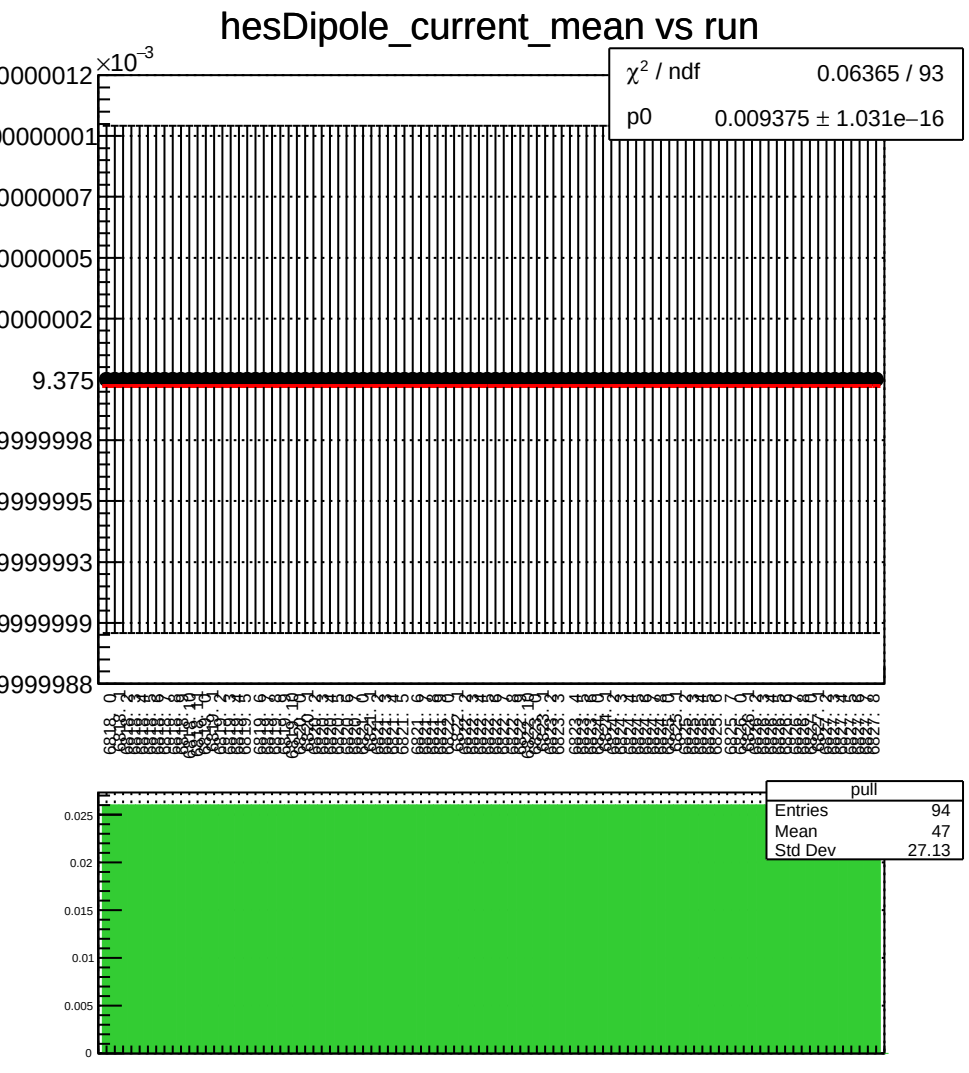

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.623e+28 / 93
p0 925 ± 1.031e−16
925.035
925.03
925.025
925.02
925.015
925.01
925.005
925
924.995
pull
Entries 94
Mean −9.475e+08
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15
−20

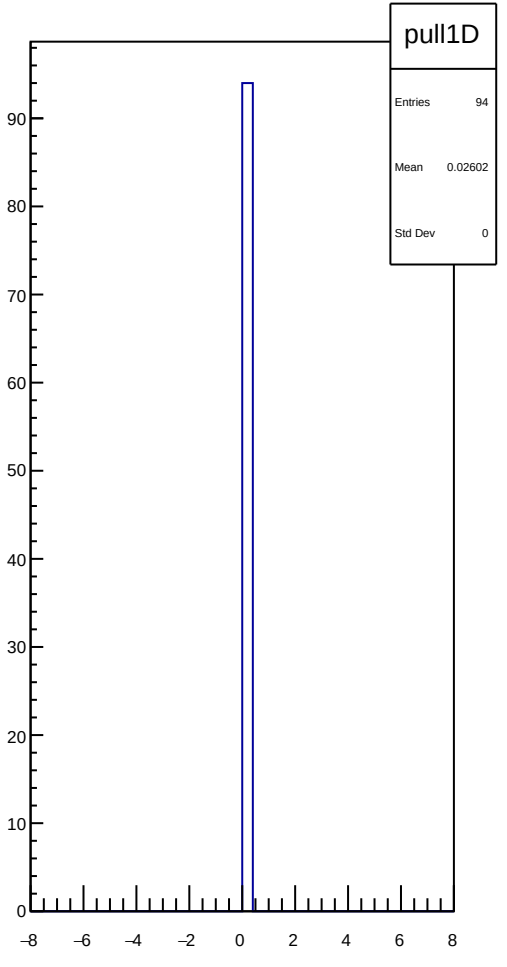

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

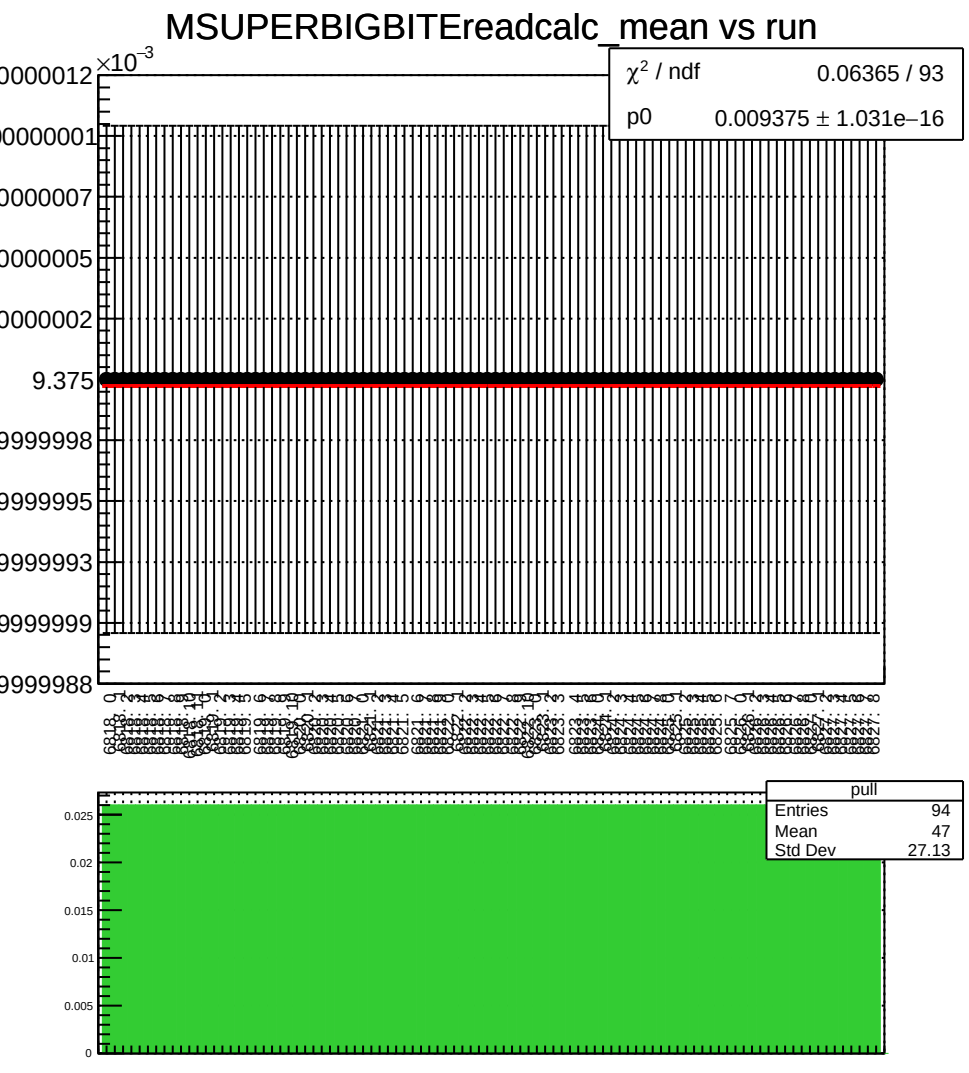

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.102e+25 / 93
p0 762.5 ± 1.031e−16
762.5072
762.507
762.5068
762.5066
762.5064
762.5062
762.506
pull
Entries 94
Mean 2.546e+09
Std Dev 0
×10⁹
400
200
0
−200
−400
−600
−800
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

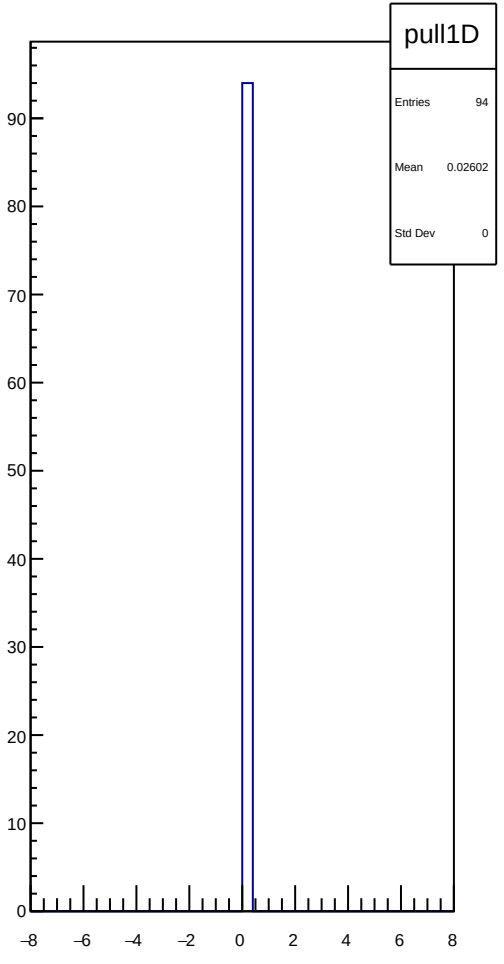

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.011e+26 / 93
p0 977.7 ± 1.031e−16
977.74
977.739
977.738
977.737
977.736
977.735
977.734
977.733
977.732
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 94
Mean −2.033e+09
Std Dev 0

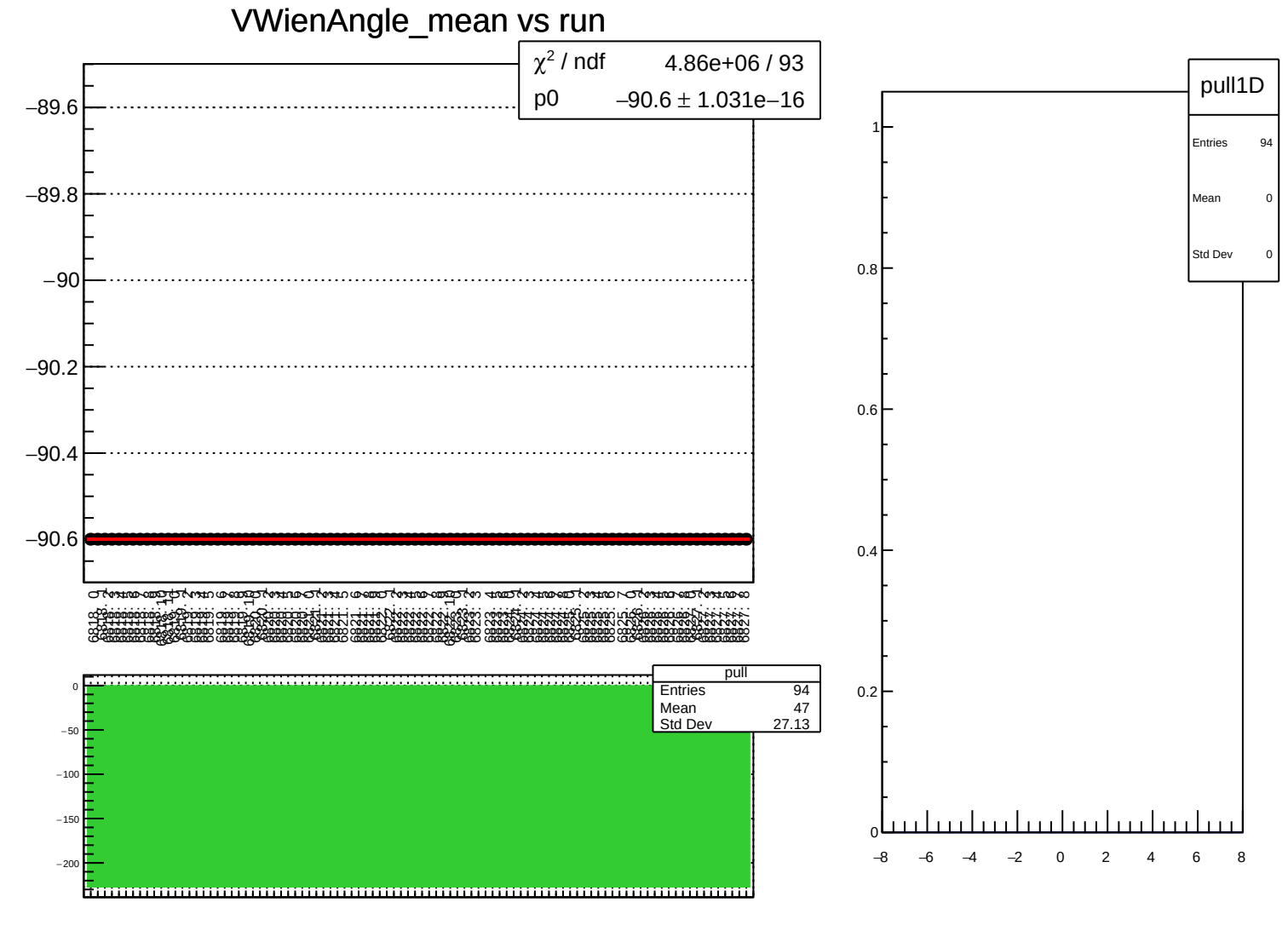

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

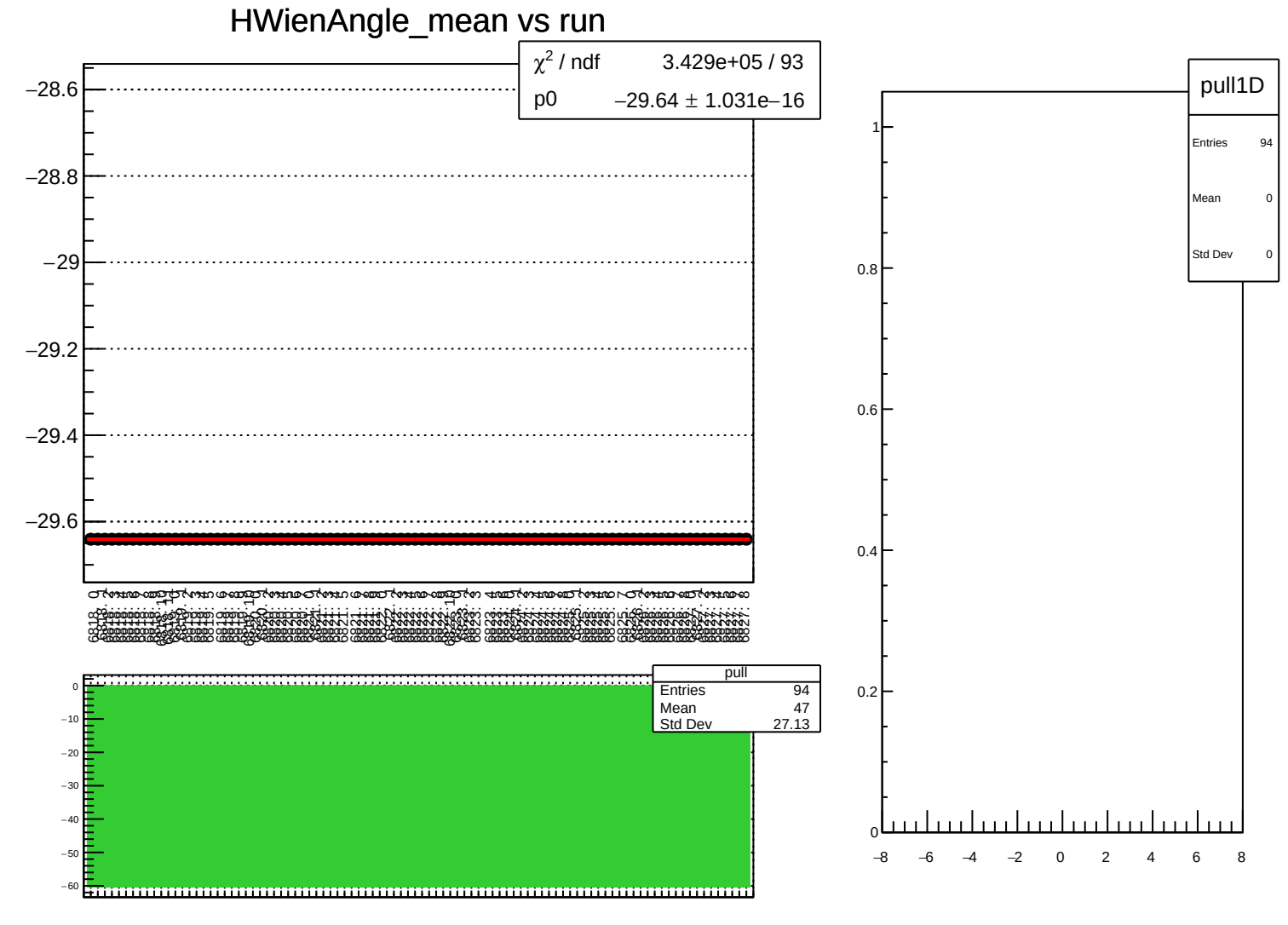

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
9.375
pull
Entries 94
Mean 47
Std Dev 27.13

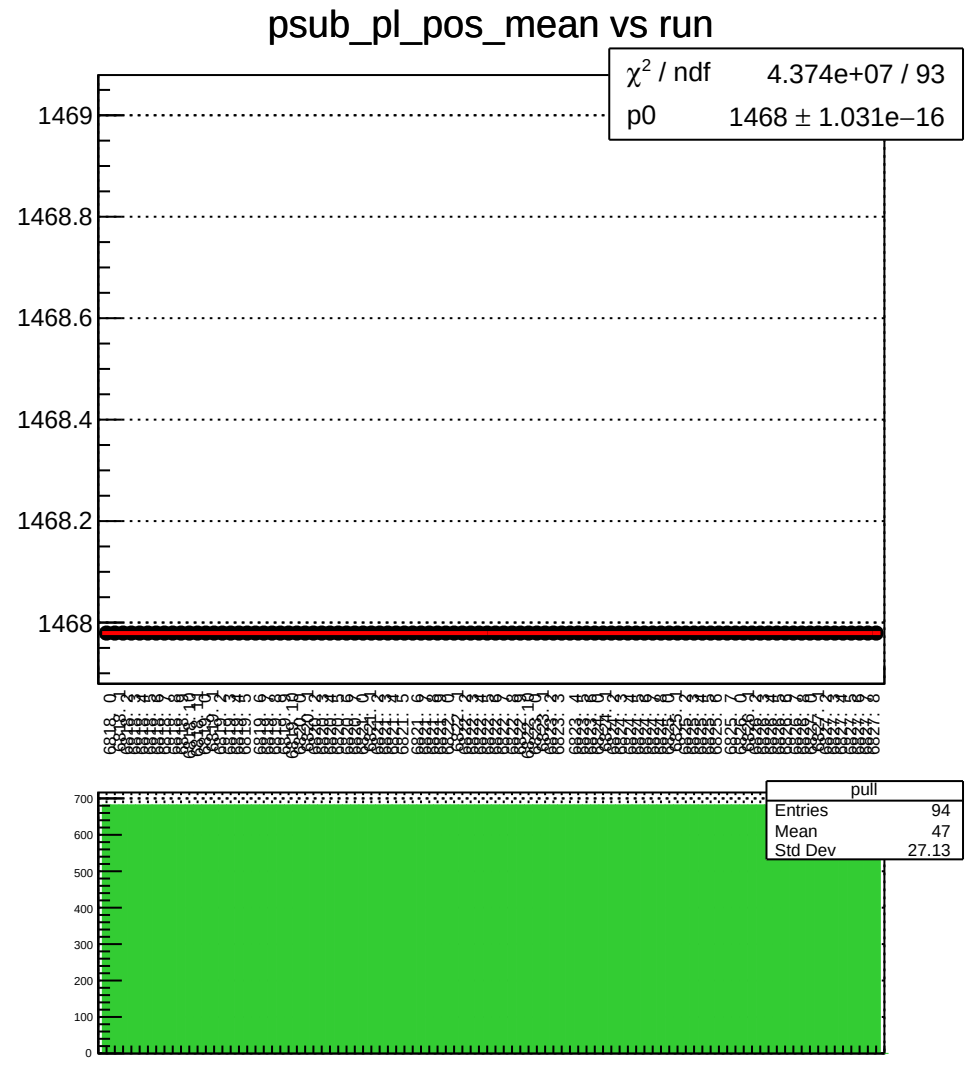

pull1D
Entries 94
Mean 0.02602
Std Dev 0

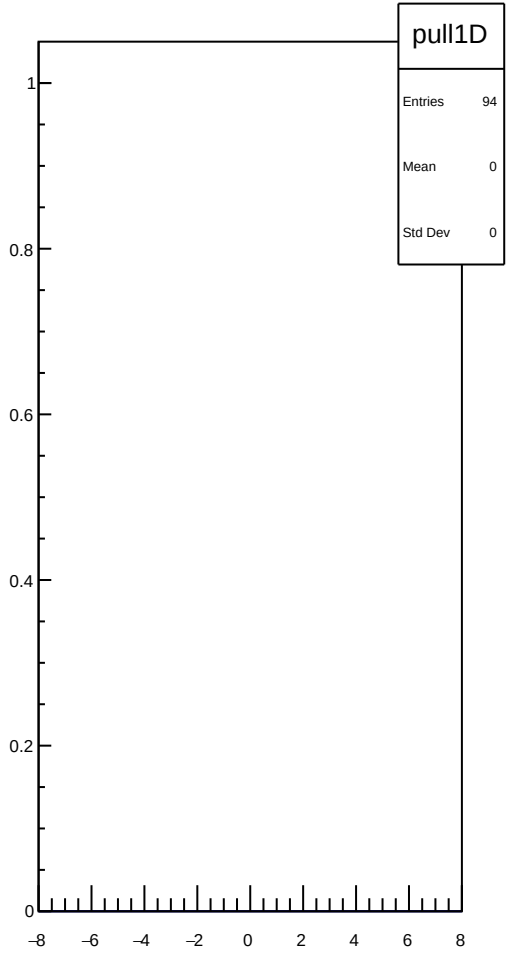

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
×10⁻³
pull
Entries 94
Mean 47
Std Dev 27.13

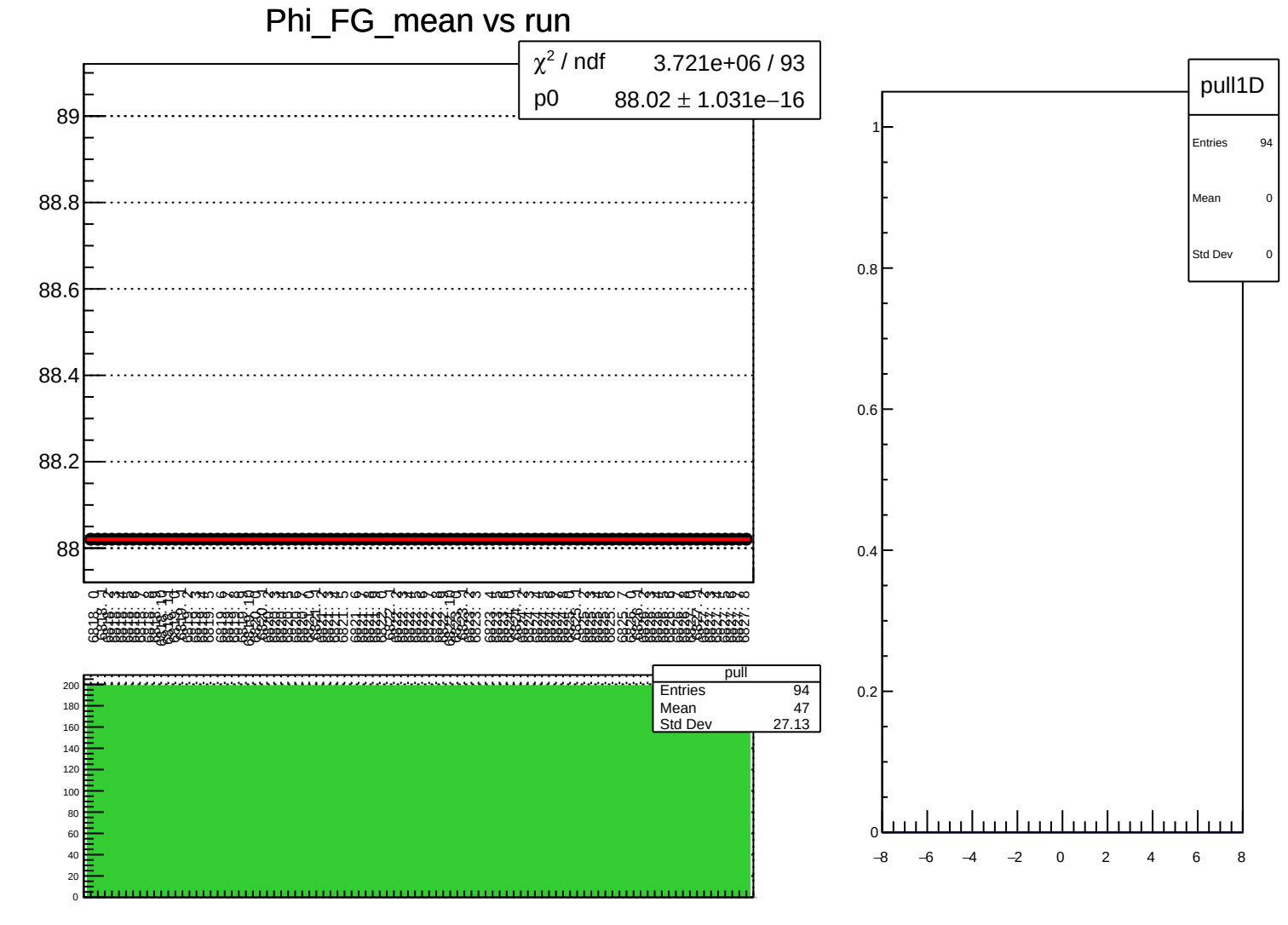

pull1D
Entries 94
Mean 0.02602
Std Dev 0

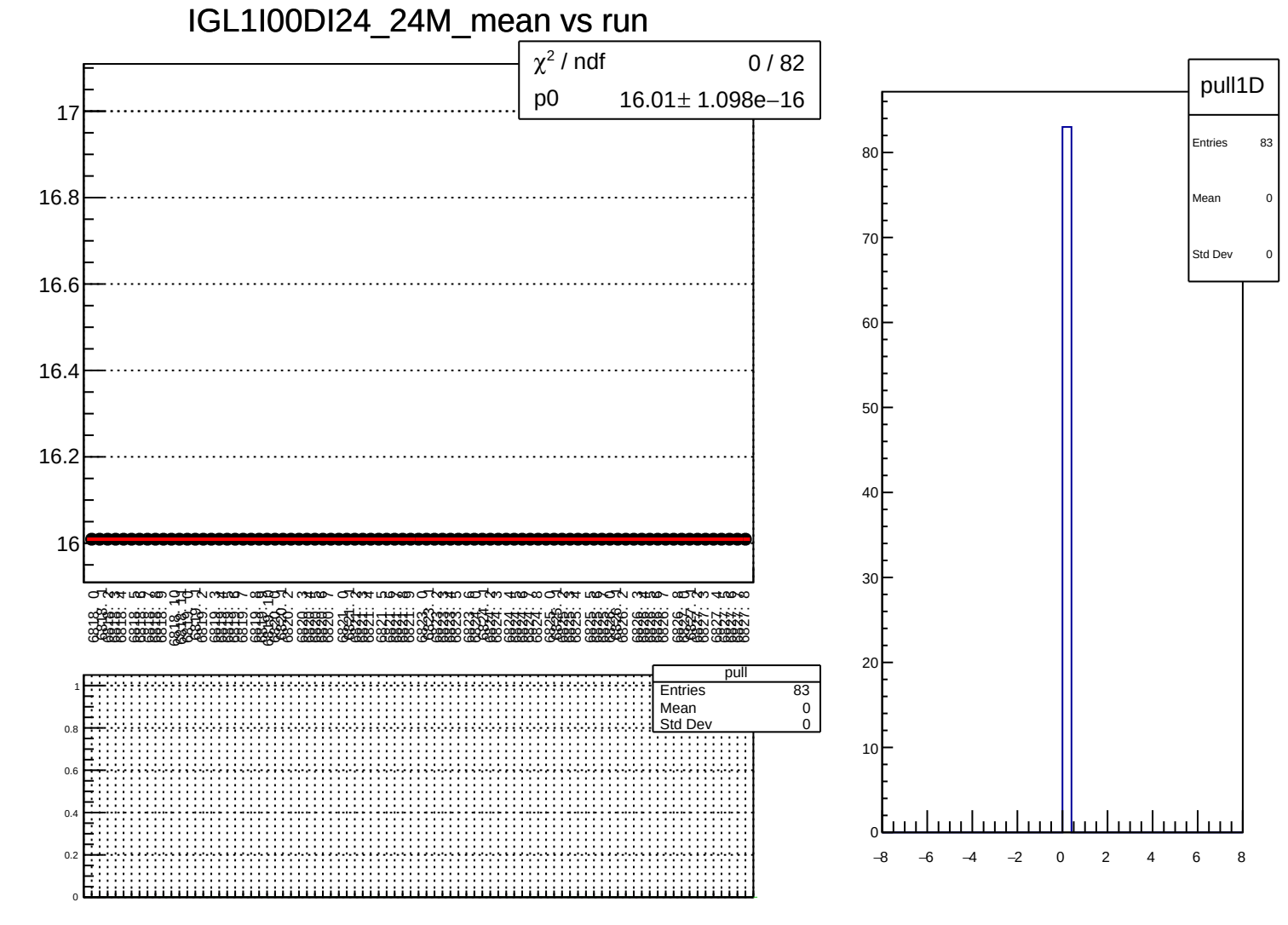

VWienAngle_mean vs run
χ² / ndf 4.86e+06 / 93
p0 −90.6 ± 1.031e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−50
−100
−150
−200
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

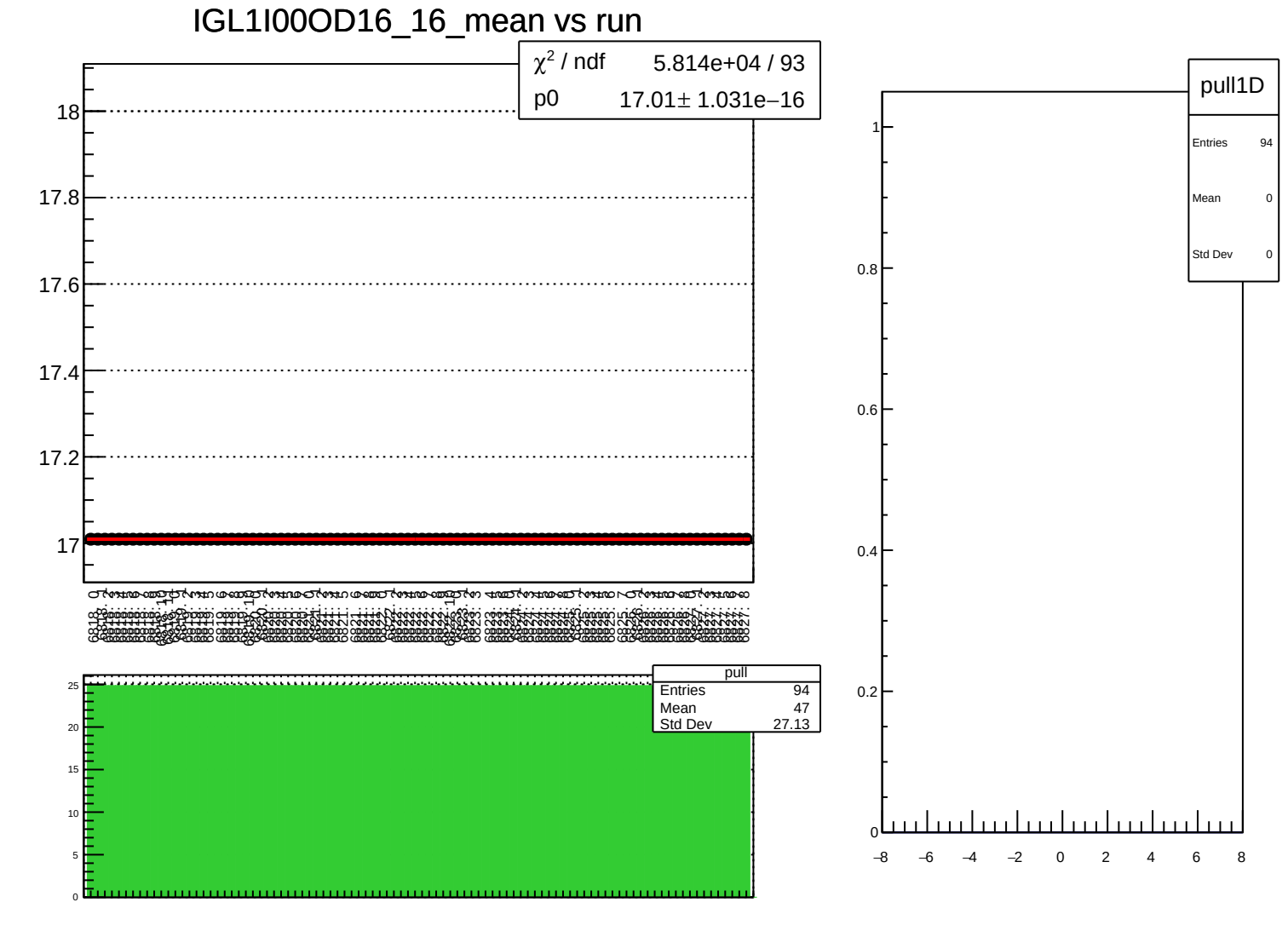

HWienAngle_mean vs run
χ² / ndf 3.429e+05 / 93
p0 −29.64 ± 1.031e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 94
Mean 47
Std Dev 27.13
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

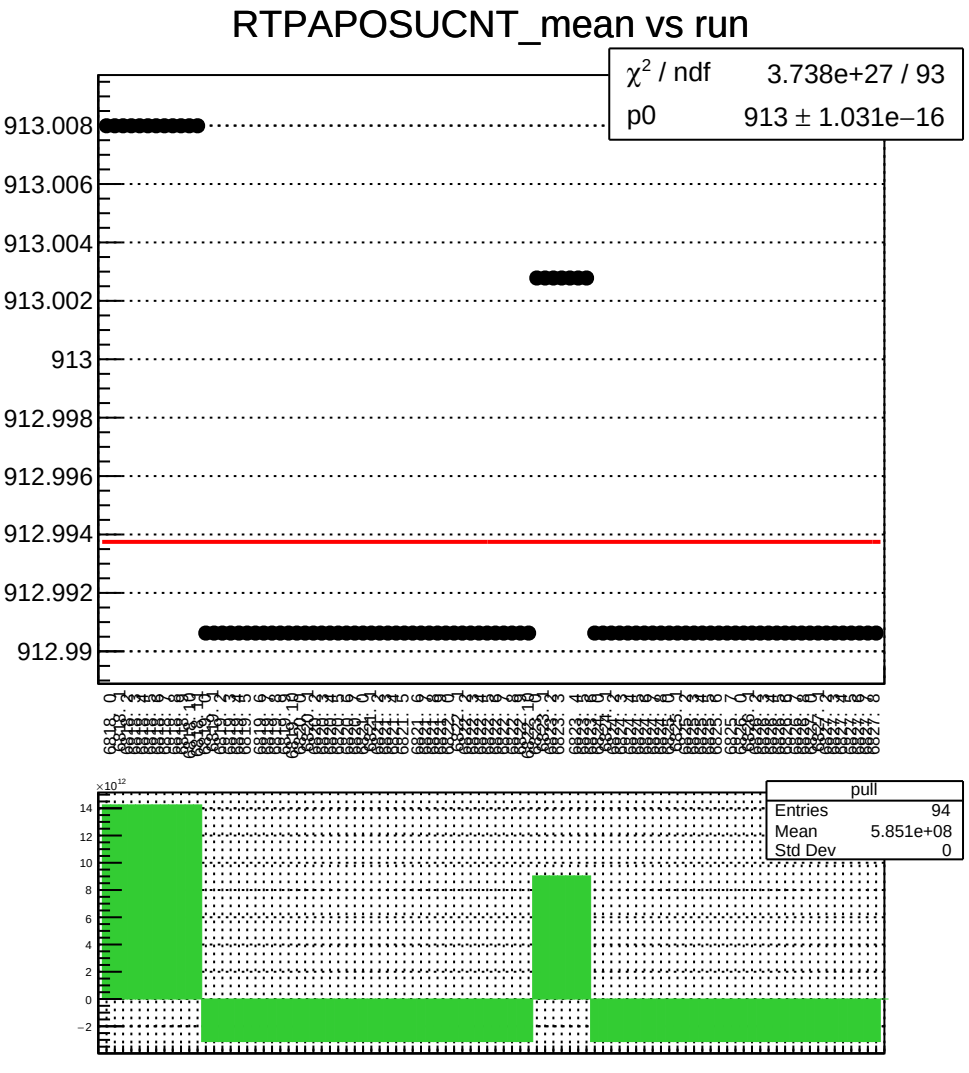

psub_pl_pos_mean vs run
χ² / ndf 4.374e+07 / 93
p0 1468 ± 1.031e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 94
Mean 47
Std Dev 27.13
700
600
500
400
300
200
100
0

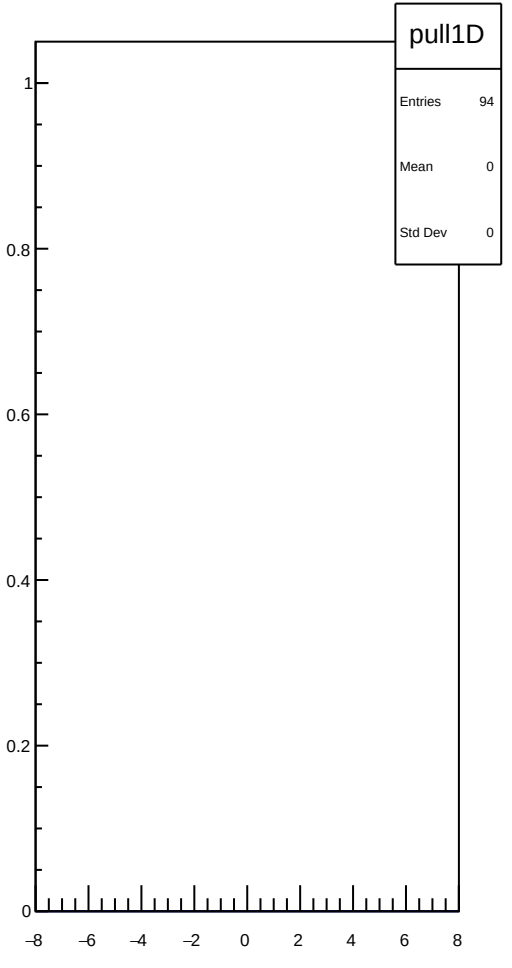

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

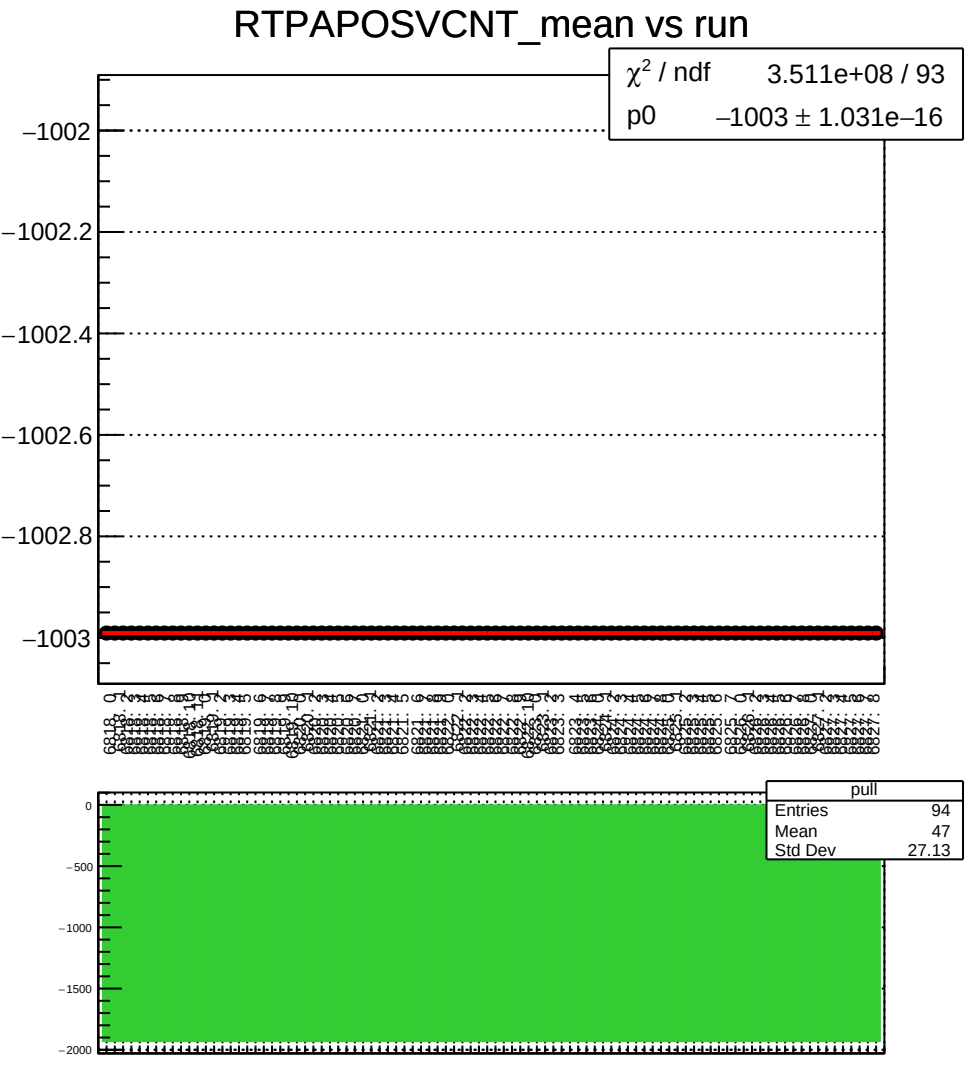

Phi_FG_mean vs run
χ² / ndf 3.721e+06 / 93
p0 88.02 ± 1.031e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 94
Mean 47
Std Dev 27.13
200
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

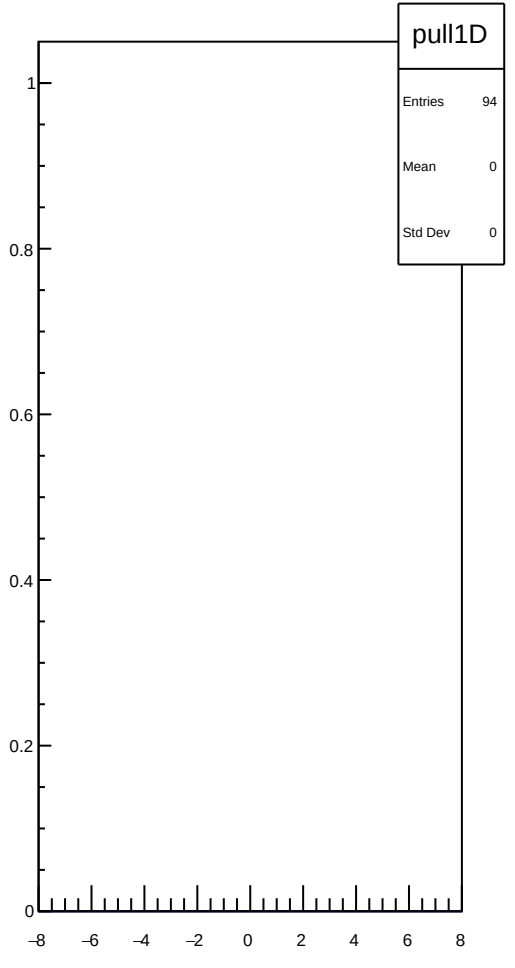

IGL1I00DI24_24M_mean vs run
χ² / ndf 0 / 82
p0 16.01± 1.098e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 83
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 83
Mean 0
Std Dev 0
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

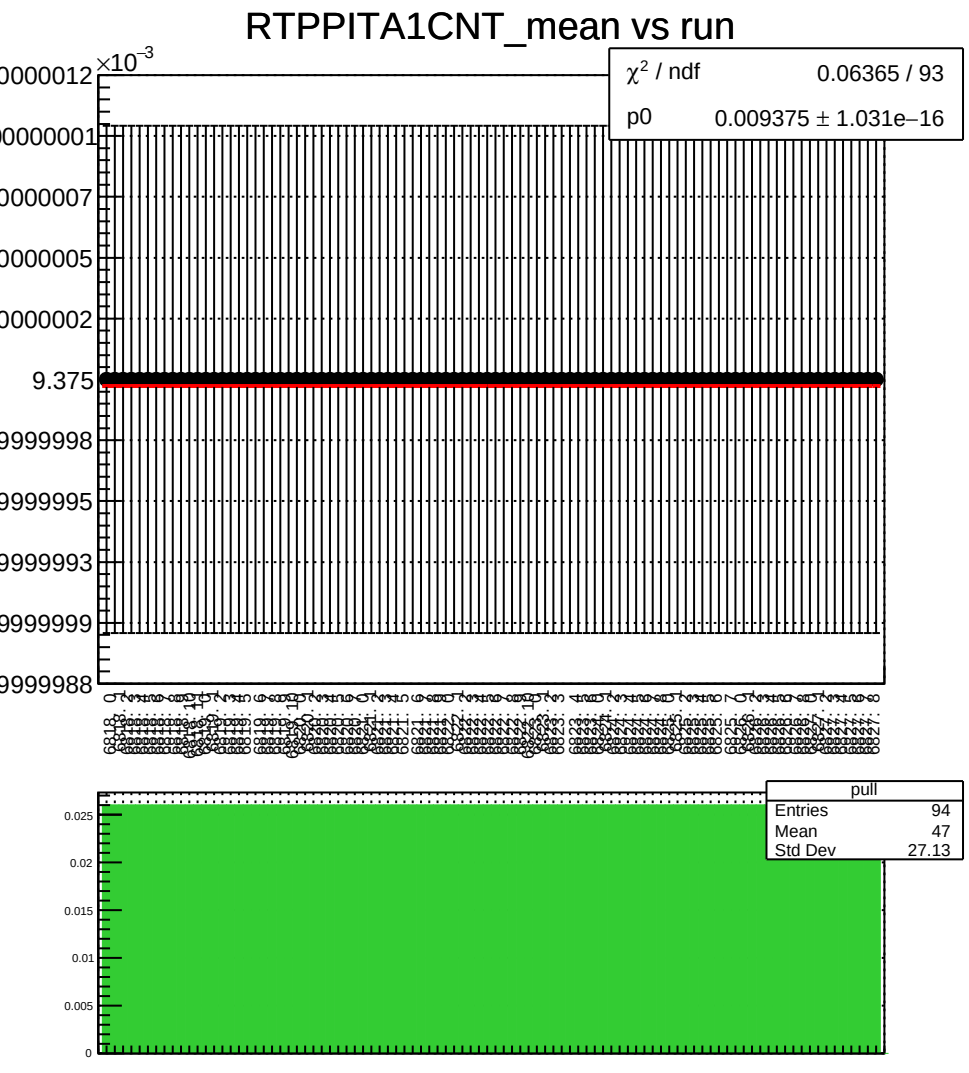

IGL1I00OD16_16_mean vs run
χ² / ndf 5.814e+04 / 93
p0 17.01± 1.031e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 94
Mean 47
Std Dev 27.13
25
20
15
10
5
0
pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

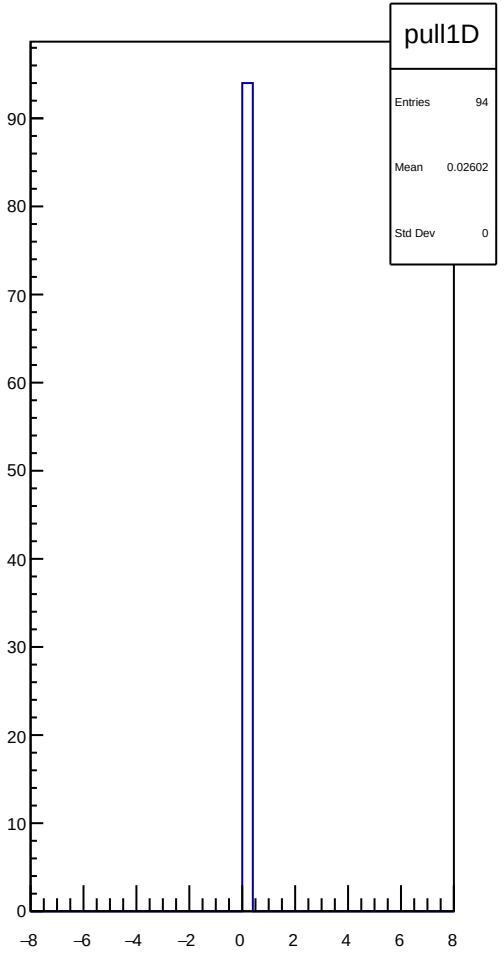

RTPAPOSUCNT_mean vs run
χ² / ndf 3.738e+27 / 93
p0 913 ± 1.031e−16
913.008
913.006
913.004
913.002
913
912.998
912.996
912.994
912.992
912.99
pull
Entries 94
Mean 5.851e+08
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
−2

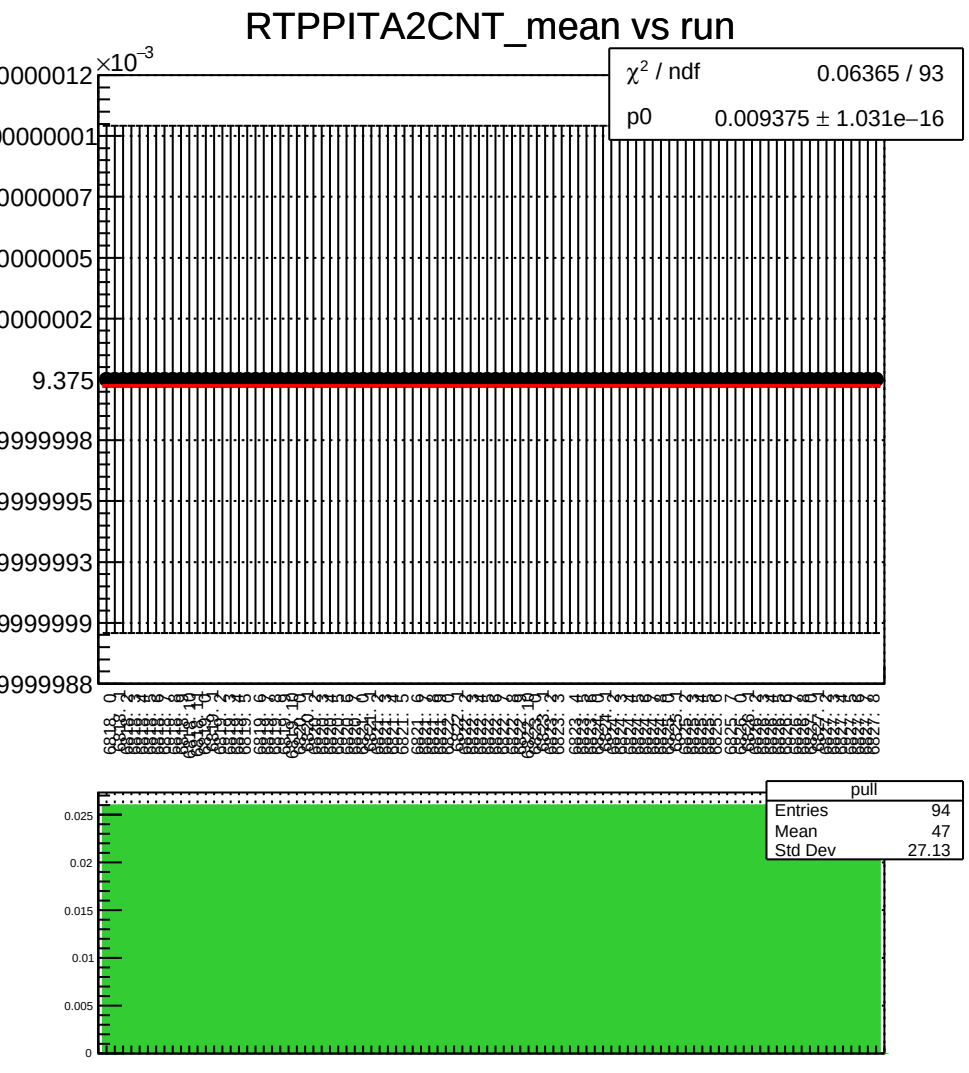

pull1D
Entries 94
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

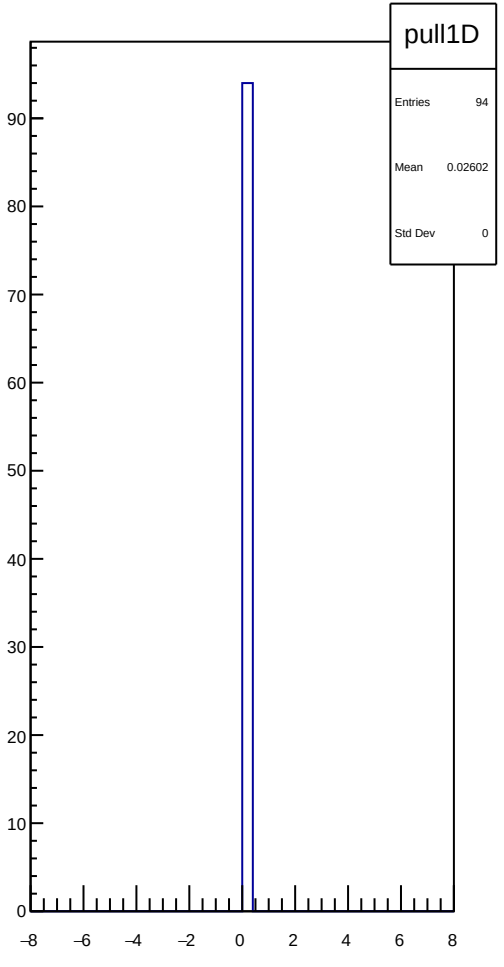

RTPAPOSVCNT_mean vs run
χ² / ndf 3.511e+08 / 93
p0 −1003 ± 1.031e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 94
Mean 47
Std Dev 27.13
0
−500
−1000
−1500
−2000


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


RTPPITA1CNT_mean vs run
×10⁻³
χ² / ndf 0.06365 / 93
p0 0.009375 ± 1.031e−16
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
pull
Entries 94
Mean 47
Std Dev 27.13


pull1D
Entries 94
Mean 0.02602
Std Dev 0